

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 4098 - L2 Version 3
Chandra X-Ray Center

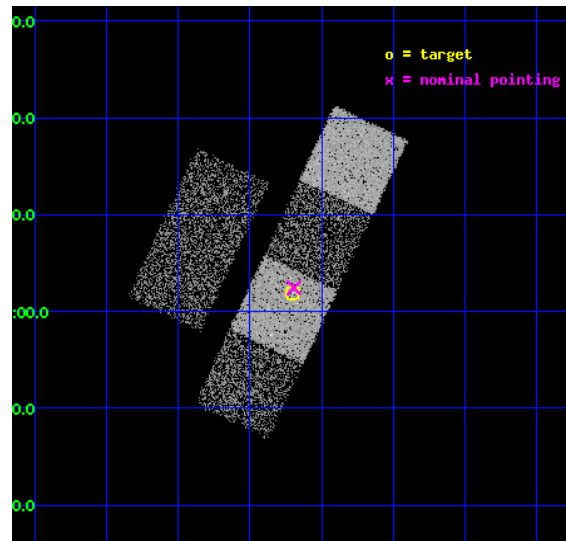
L2 Processing Date : Oct 30 2012

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1 Front

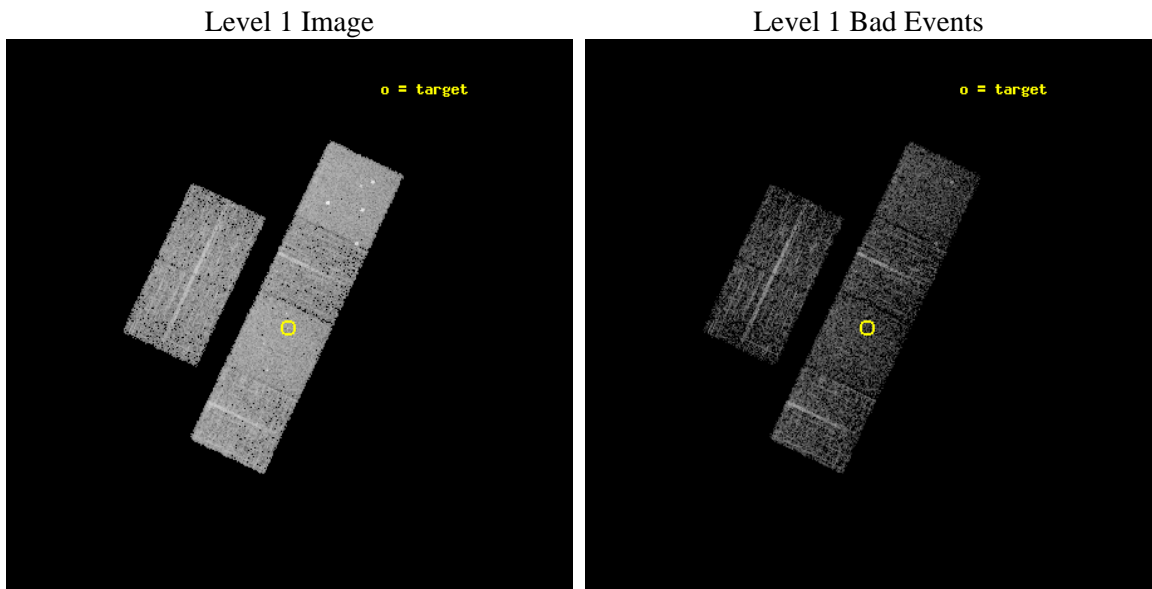
seq_num	700777	Sequence number
obs_id	4098	Observation id
title	X-RAY CONSTRAINTS ON THE STRUCTURE OF THE BROAD EMISSION LINE REGION IN QUASARS	Proposal title
observer	Dr. Gordon Richards	Principal investigator
object	SDSS J014812.23+000153.2	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	27.050833	Observer's specified target RA [deg]
dec_targ	0.031444	Observer's specified target Dec [deg]
ra_nom	27.048328949458	Nominal RA [deg]
dec_nom	0.040662716028062	Nominal Dec [deg]
roll_nom	115.3517684631	Nominal Roll [deg]
revision	3	Processing version of data
ontime	3752.5111434758	Sum of GTIs [s]
livetime	3704.9945878861	Livetime [s]
ontime2	3752.5521834791	Sum of GTIs [s]
ontime3	3752.3880234659	Sum of GTIs [s]
ontime5	3752.4701034725	Sum of GTIs [s]
ontime6	3752.4290634692	Sum of GTIs [s]
ontime7	3752.5111434758	Sum of GTIs [s]
ontime8	3752.3469834924	Sum of GTIs [s]
l2events	33451	Number of level 2 events



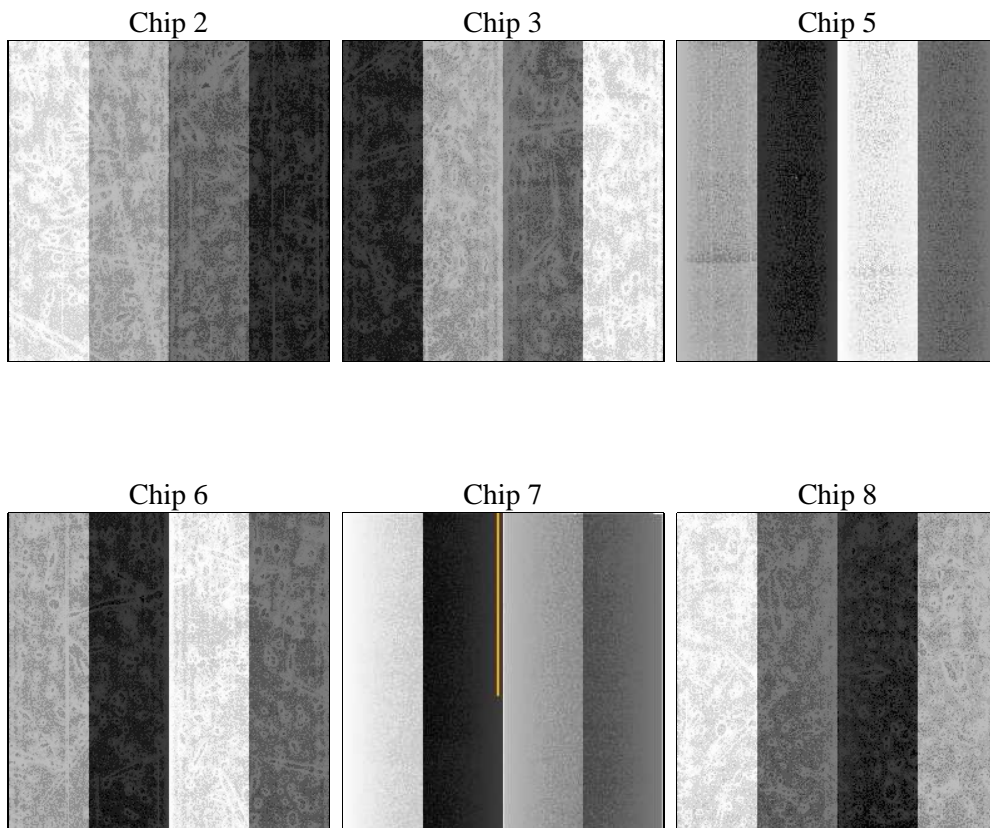
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	3787.895000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	3752.5111434758	Sum of GTIs [s]
caldsver	4.5.2	 	ontime2	3752.5521834791	Sum of GTIs [s]
date	2012-10-31T02:08:48	Date and time of file creation	ontime3	3752.3880234659	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	3752.4701034725	Sum of GTIs [s]
			ontime6	3752.4290634692	Sum of GTIs [s]
			ontime7	3752.5111434758	Sum of GTIs [s]
			ontime8	3752.3469834924	Sum of GTIs [s]
			l1events	148935	Number of level 1 events

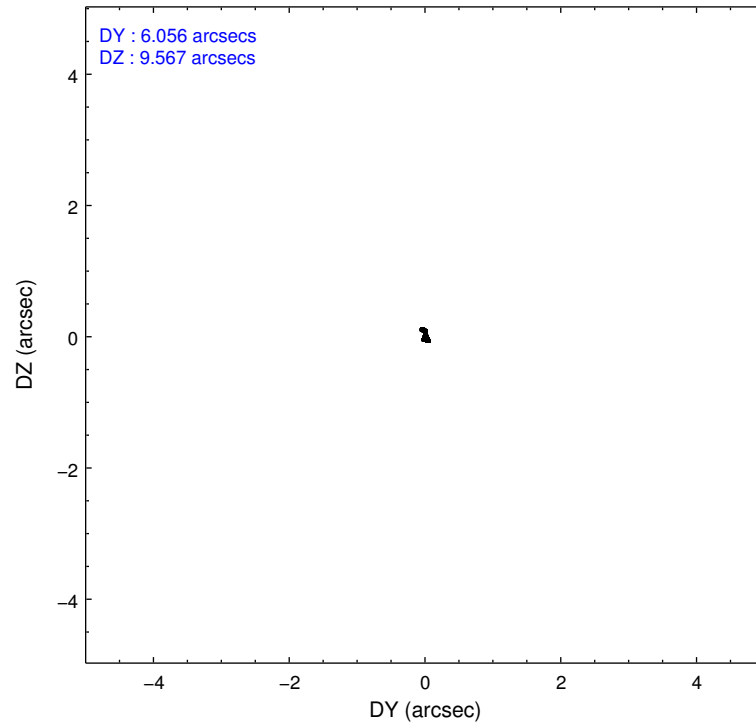
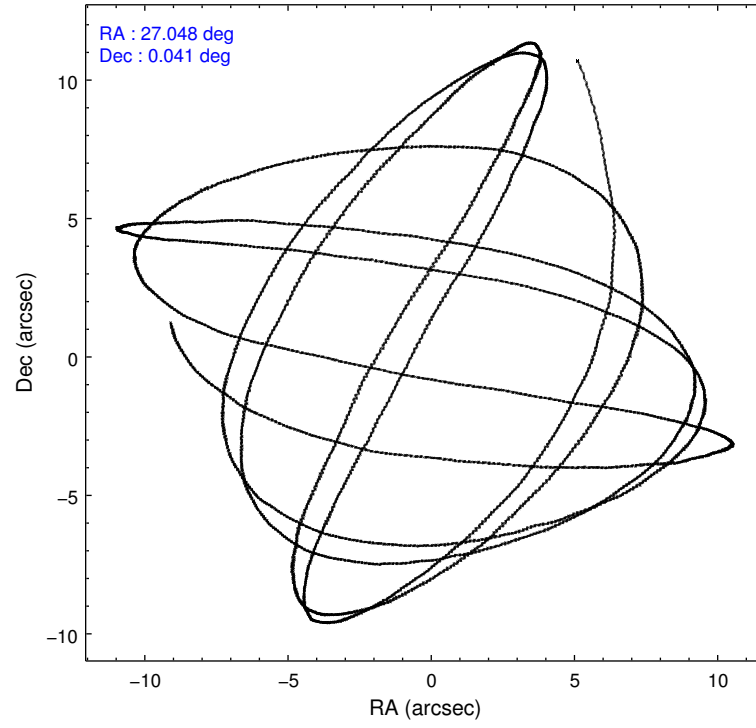
2.1.4 Events

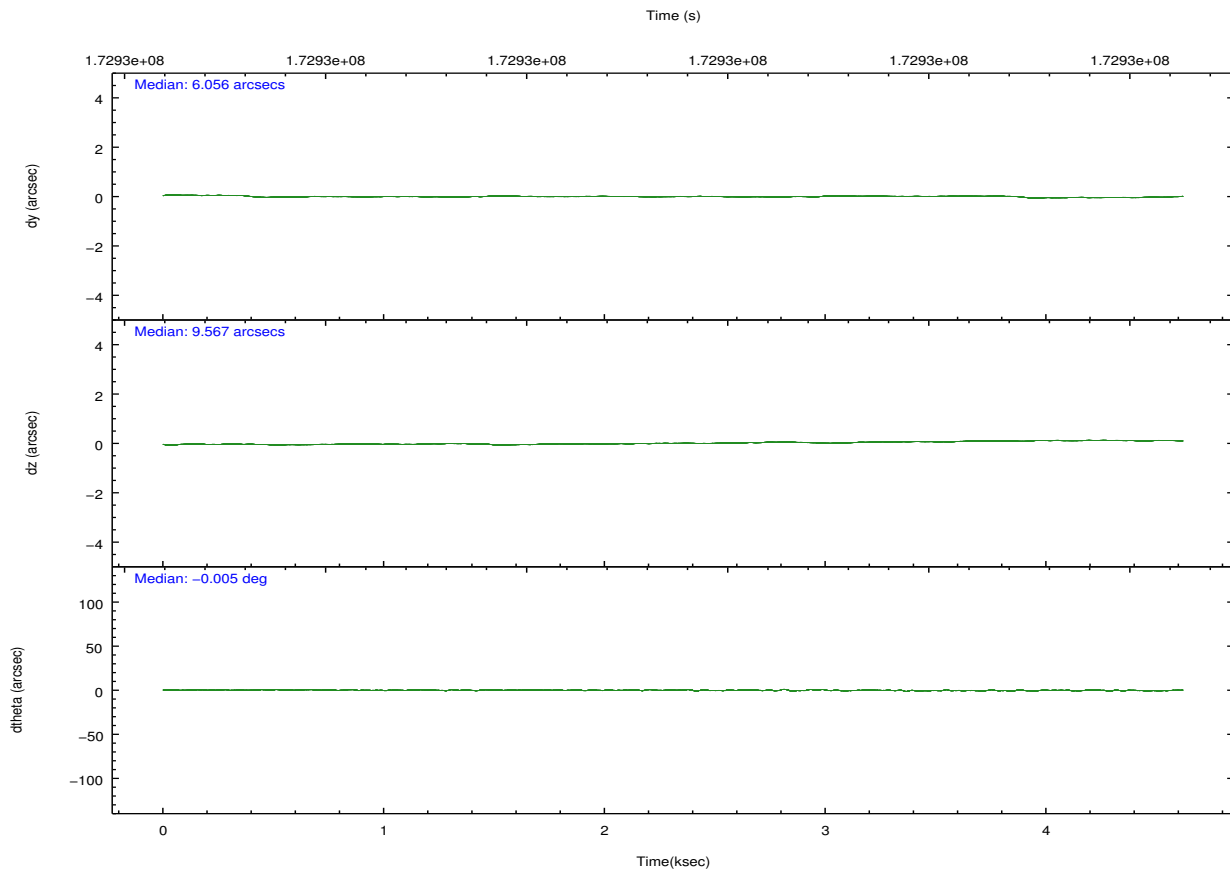
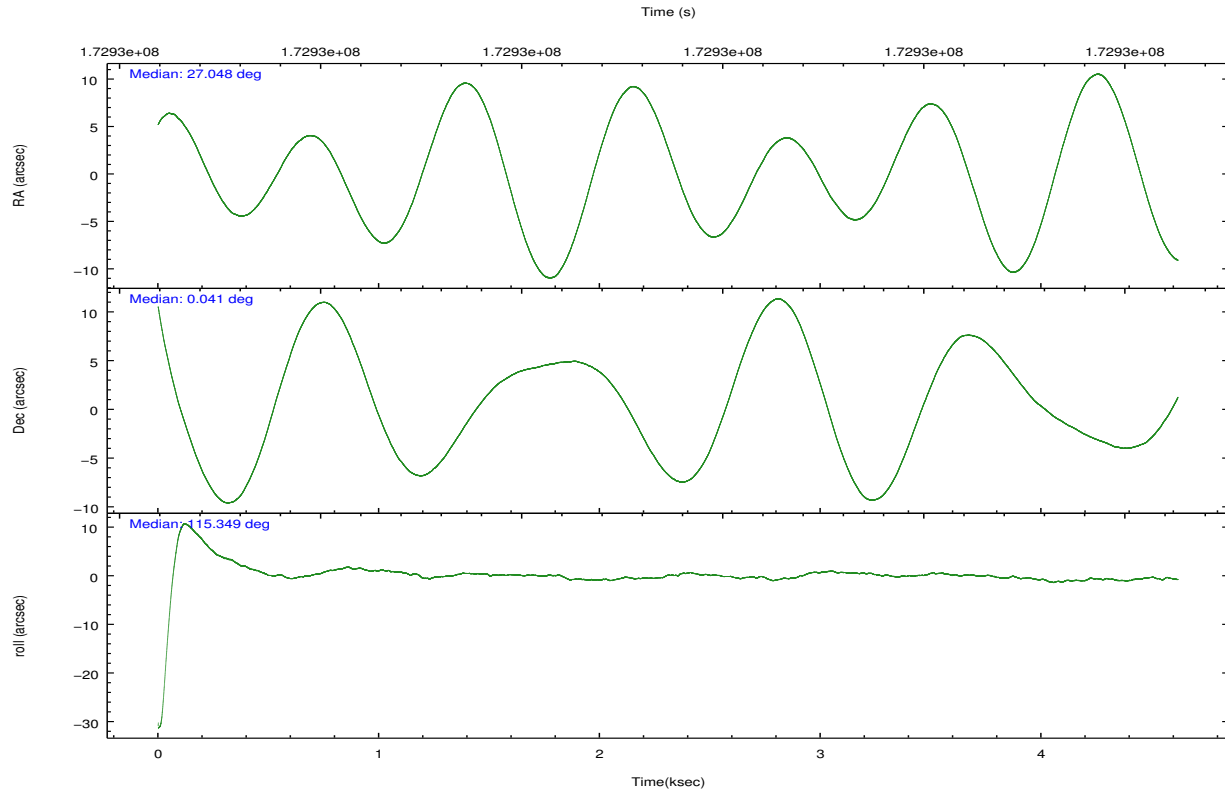
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	20903	19927	32067	20528	28132	27378	grade 0 events	1113	1043	2594	1056	1186	1612
rejected events	18329	17565	16796	17933	16235	21703		5%	5%	8%	5%	4%	5%
rejected %	87%	88%	52%	87%	57%	79%	grade 1 events	11	5	71	13	29	12
								0%	0%	0%	0%	0%	0%
							grade 2 events	542	442	4281	524	2351	1287
								2%	2%	13%	2%	8%	4%
							grade 3 events	256	246	631	263	1079	614
								1%	1%	1%	1%	3%	2%
							grade 4 events	229	236	567	259	1088	594
								1%	1%	1%	1%	3%	2%
							grade 5 events	825	962	2376	1035	2768	1193
								3%	4%	7%	5%	9%	4%
							grade 6 events	437	398	7207	495	6204	1571
								2%	1%	22%	2%	22%	5%
							grade 7 events	17490	16595	14340	16883	13427	20495
								83%	83%	44%	82%	47%	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	27.070896	27.04832894945751	Subarray requested	NONE	NONE
[deg] Pointing Dec	0.025591	0.04066271602806182	Alternating exposures requested	N	N
[deg] Pointing Roll	115.195257	115.3517684631049	[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)	172927250.184000	172925963.71901			
Observation start date	2003-06-25T11:19:46	2003-06-25T10:59:23			
[s] Observation end time (MET)	172931038.184000	172931352.14424			
Observation end date	2003-06-25T12:22:54	2003-06-25T12:29:12			
Read mode	TIMED	TIMED			

2.3 Aspect



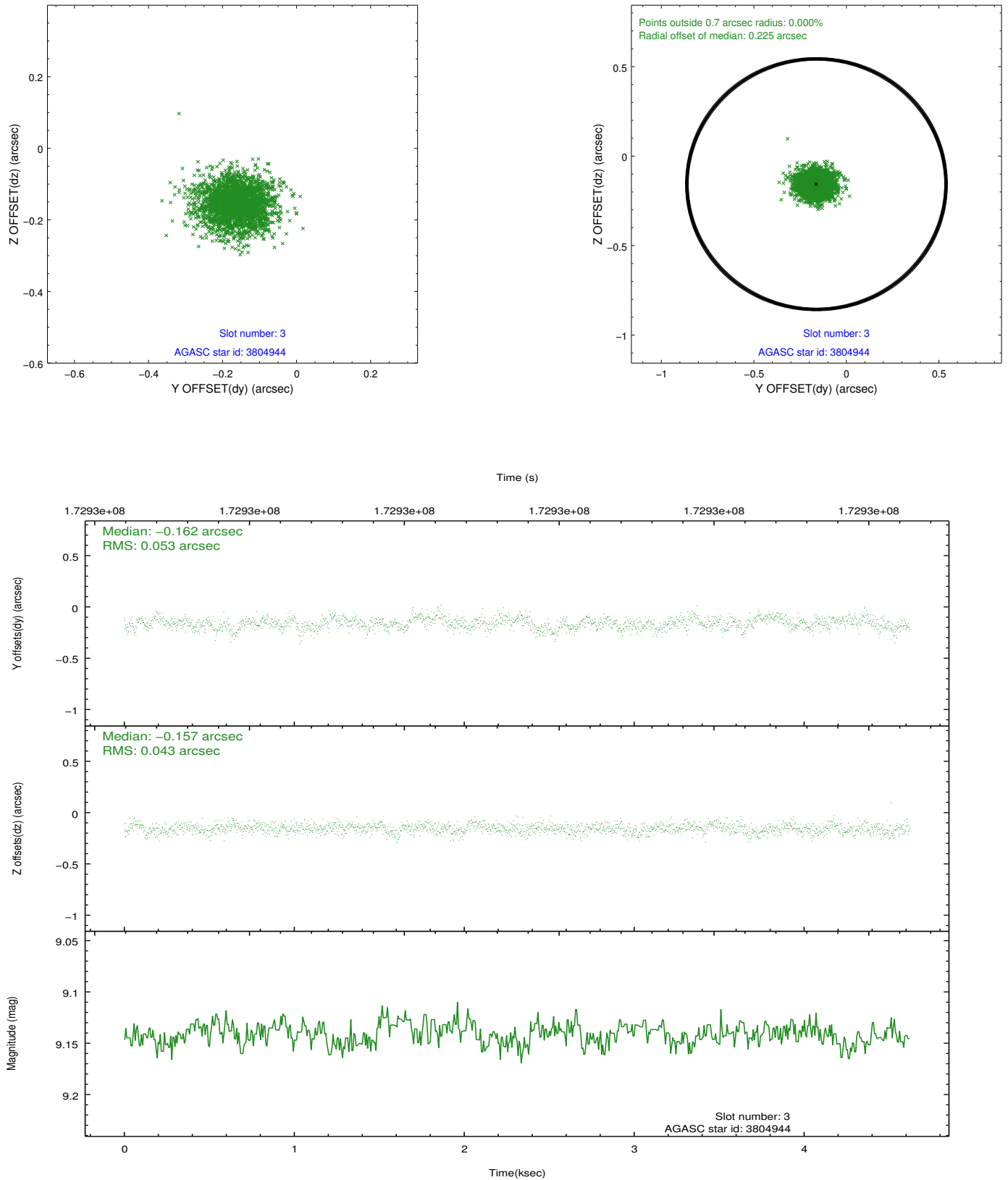


Slot Statistics

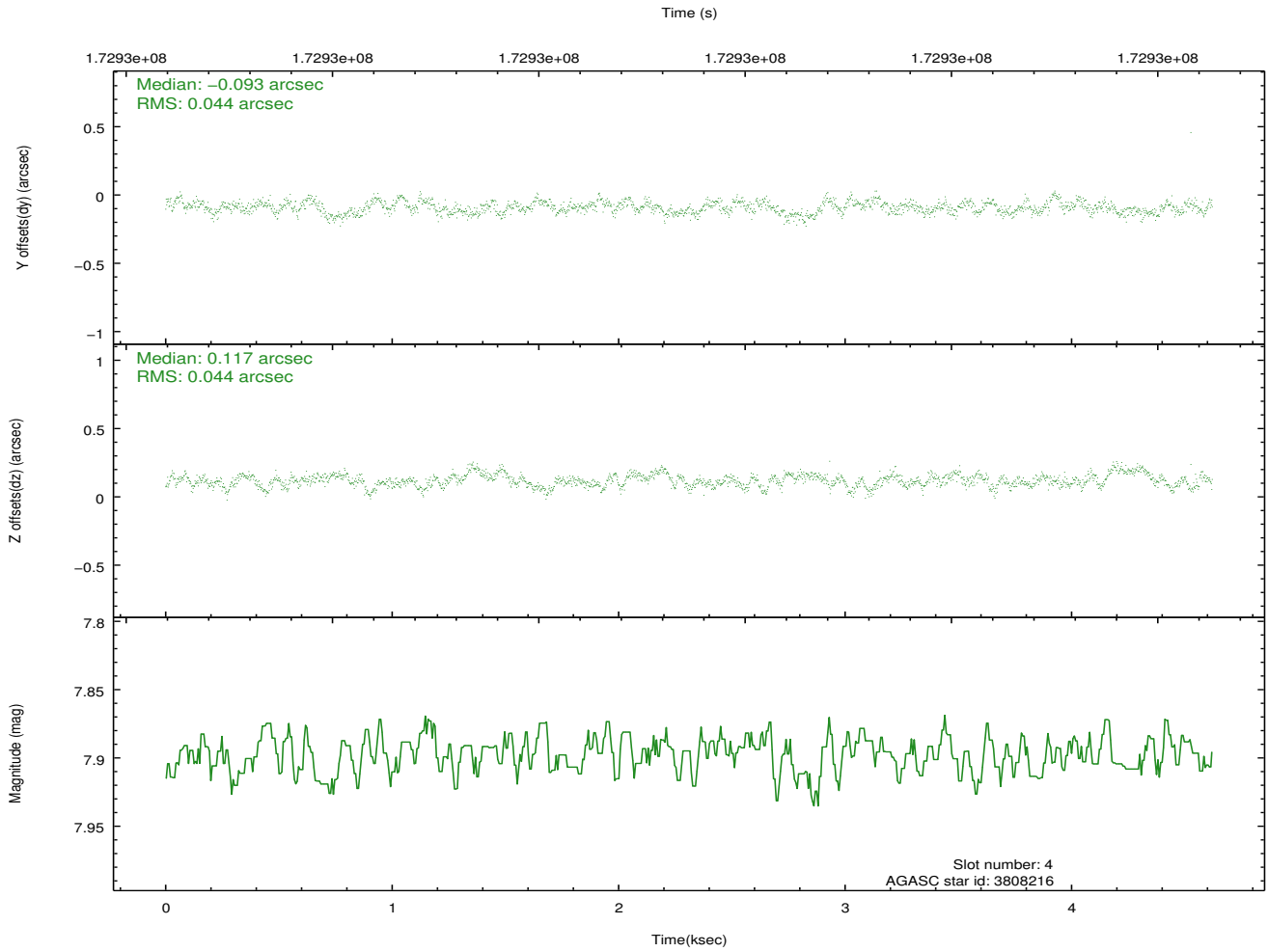
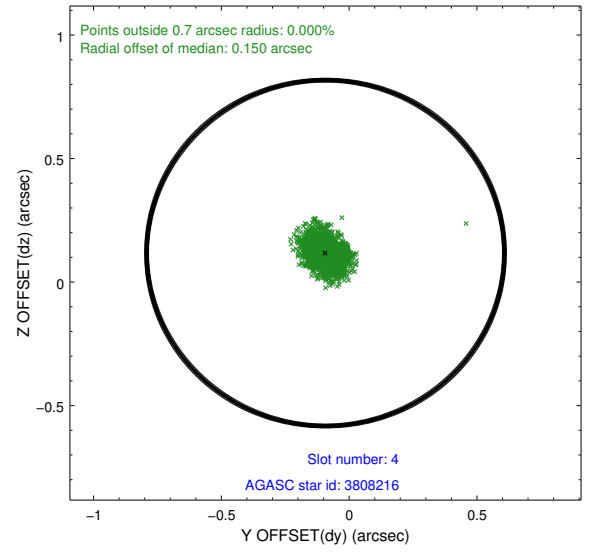
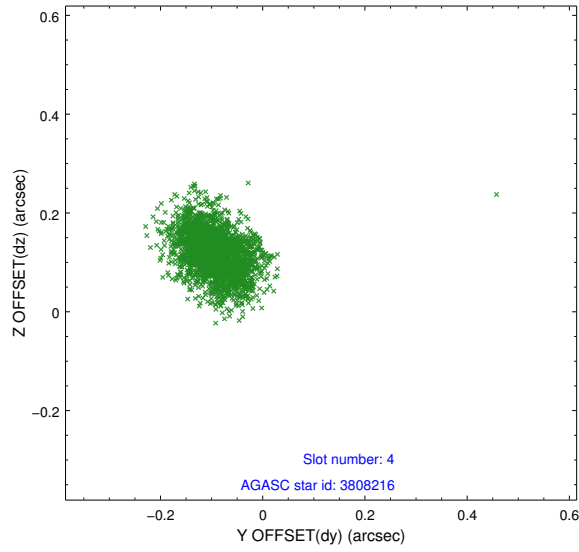
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	1127	-0.050	-0.013	0.007	0.011	0.000000	0.000000	-758.81	-1730.84
1	FID	ACIS-S-4	7.20	1127	0.049	0.028	0.006	0.011	0.000000	0.000000	2153.94	176.34
2	FID	ACIS-S-5	7.23	1127	-0.031	-0.005	0.006	0.010	0.000000	0.000000	-1809.94	171.45
3	GUIDE	3804944	9.14	2254	-0.162	-0.157	0.072	0.120	26.479606	0.233641	1584.29	1607.38
4	GUIDE	3808216	7.90	2255	-0.093	0.117	0.066	0.105	27.071052	0.452147	1390.56	-653.21
5	GUIDE	3809008	8.92	2254	-0.062	-0.104	0.067	0.107	26.677080	0.194836	1155.81	1023.11
6	GUIDE	614204992	8.47	2255	0.188	0.218	0.067	0.108	27.733117	-0.287861	-2034.52	-1676.19
7	GUIDE	614213736	9.17	2254	0.133	-0.079	0.081	0.133	27.170208	-0.361551	-1413.47	269.08

2.4 Star Slots

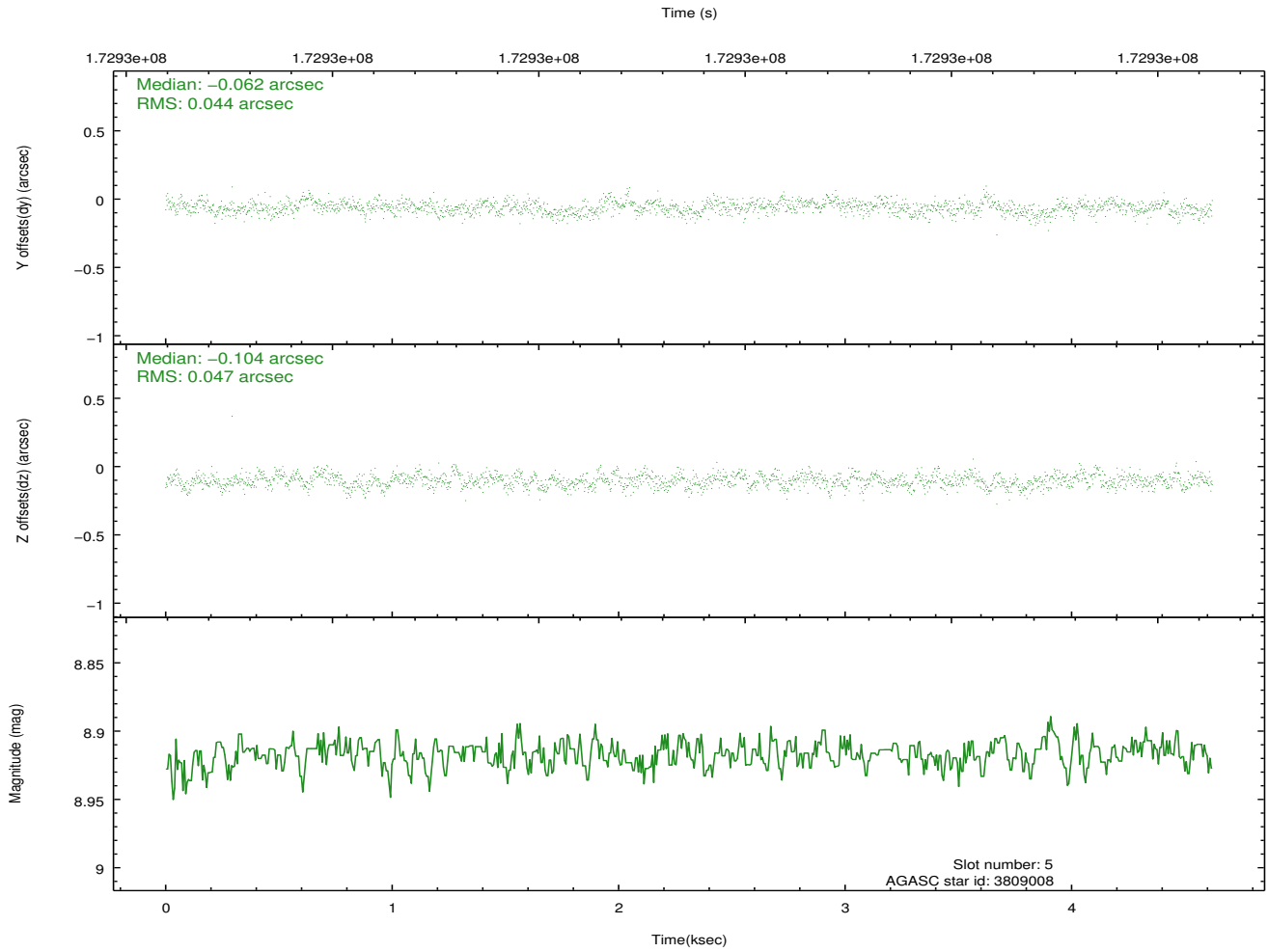
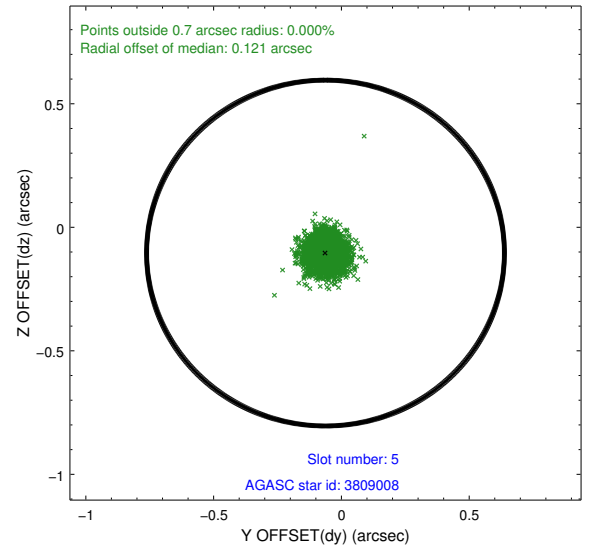
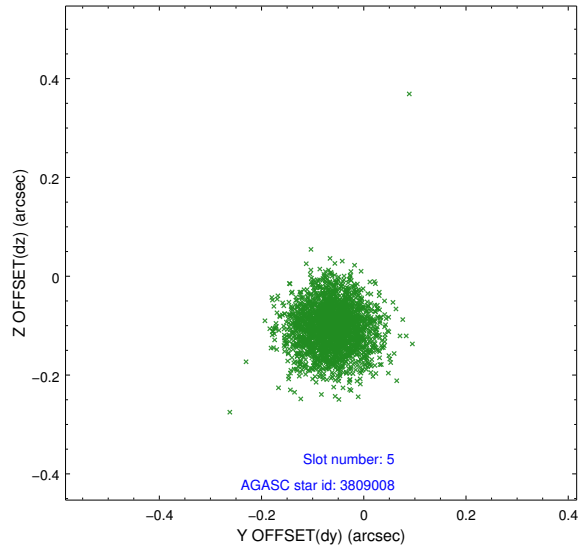
2.4.1 Slot 3



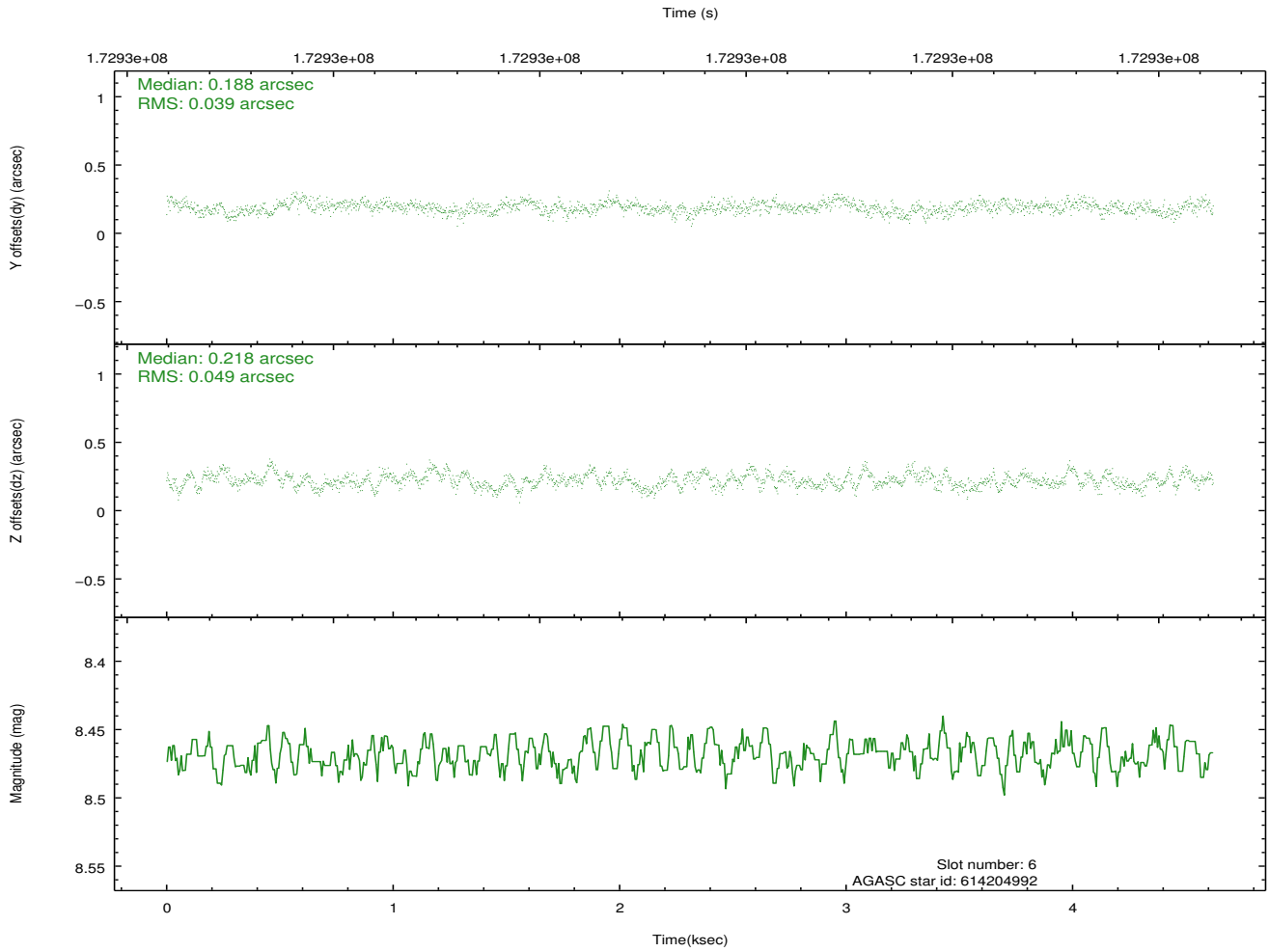
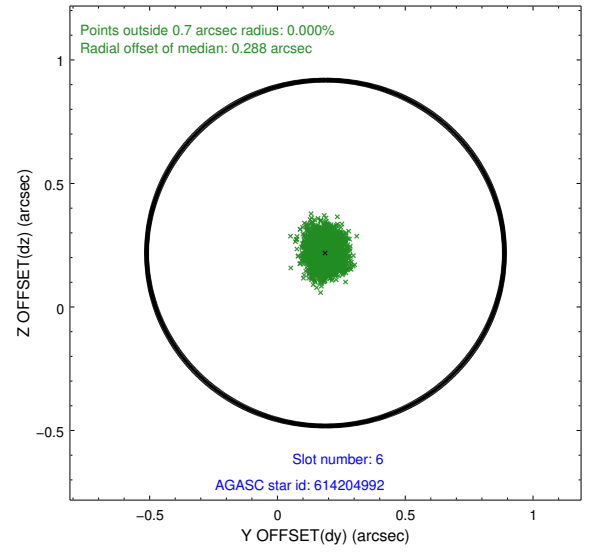
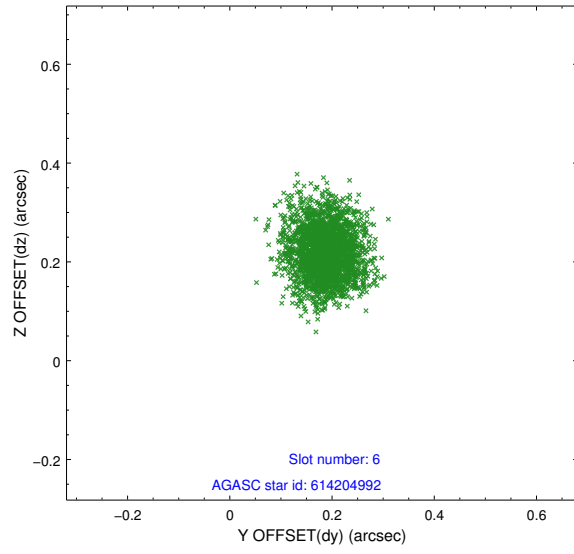
2.4.2 Slot 4



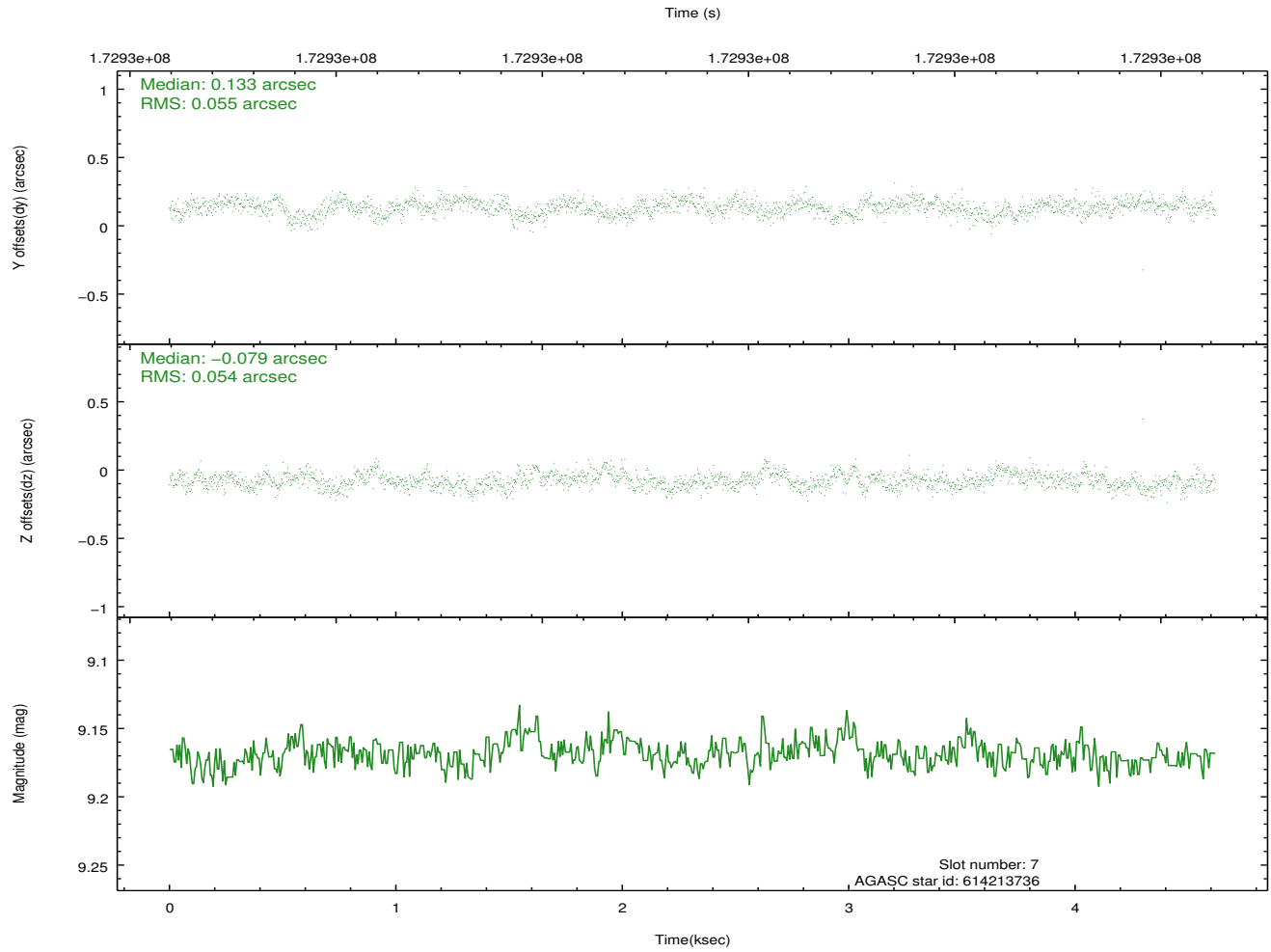
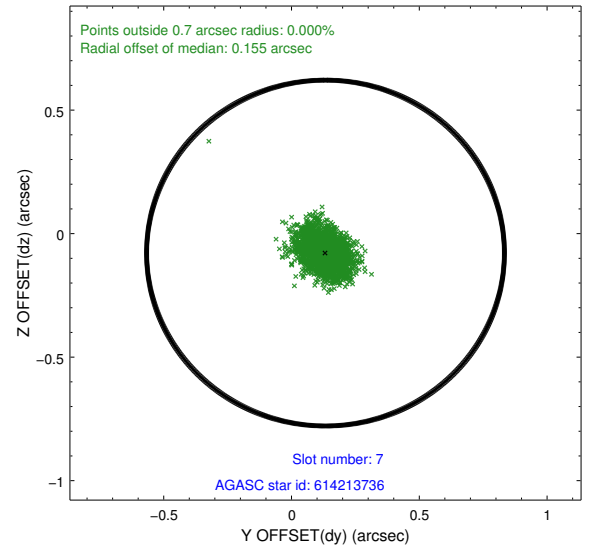
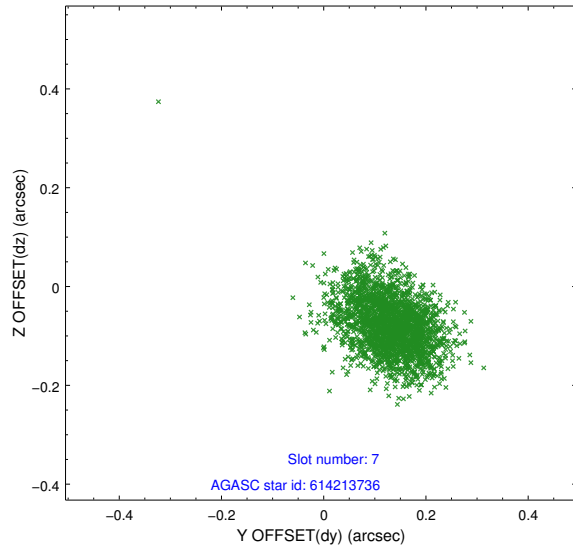
2.4.3 Slot 5



2.4.4 Slot 6

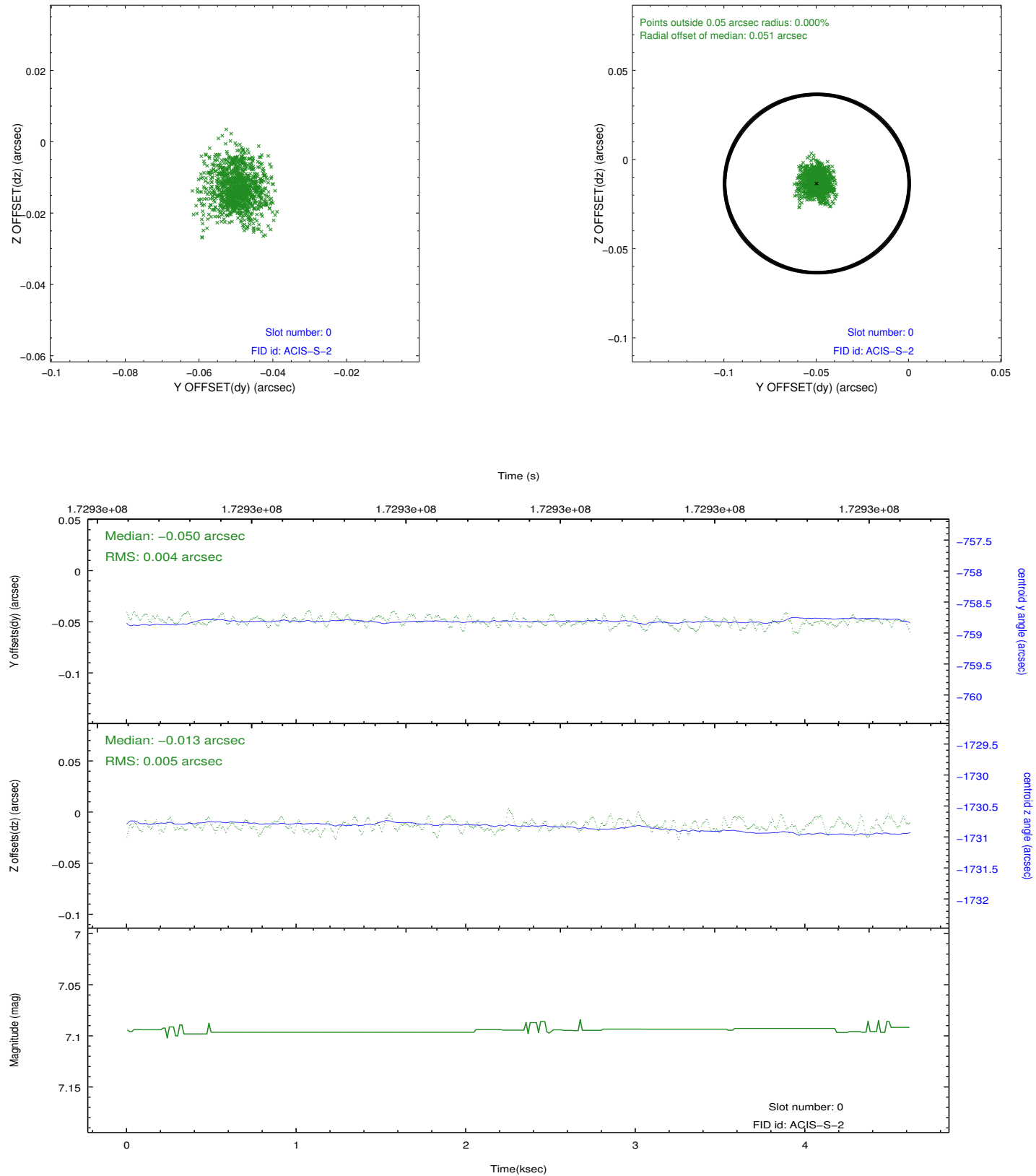


2.4.5 Slot 7

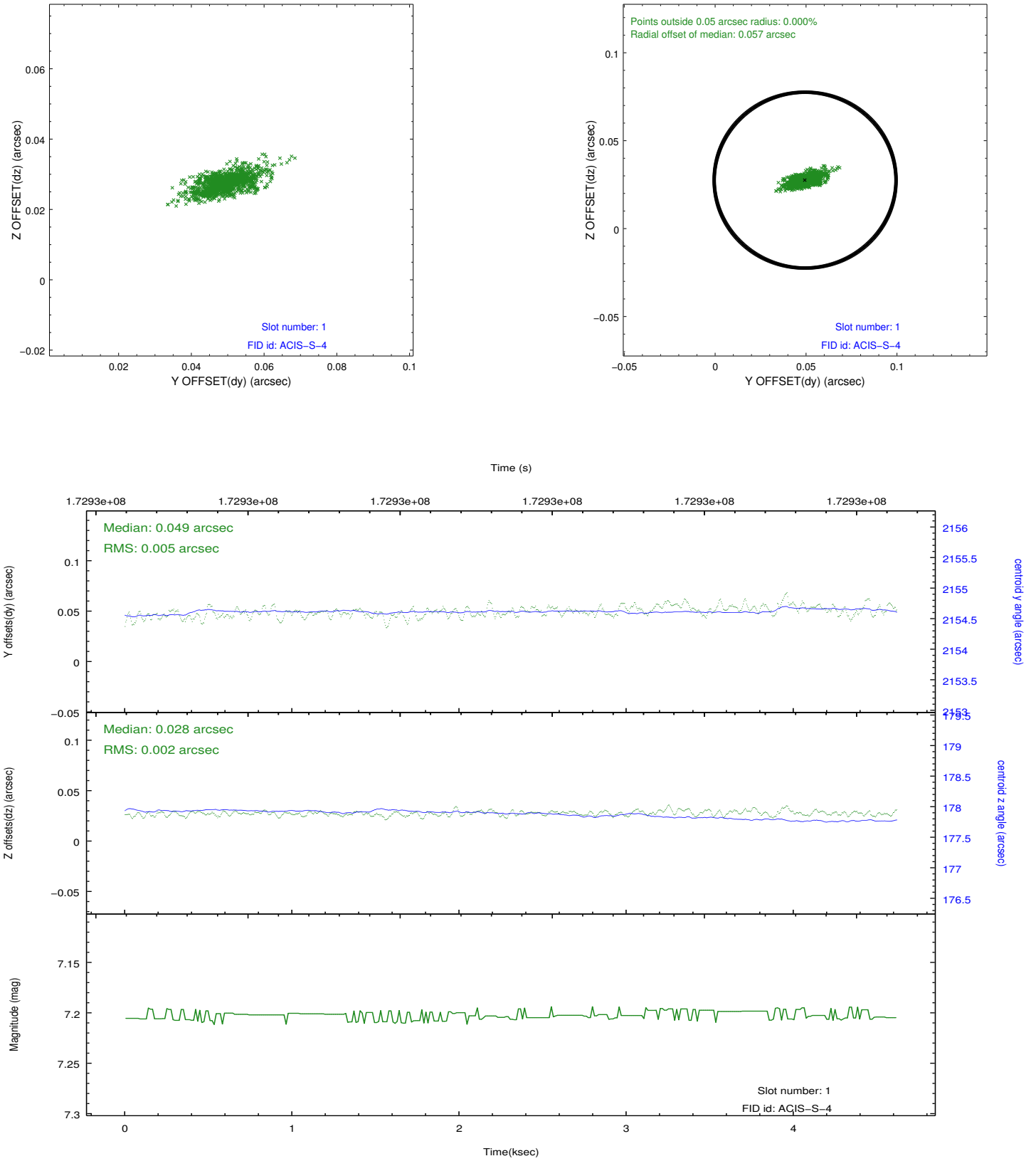


2.5 FID Slots

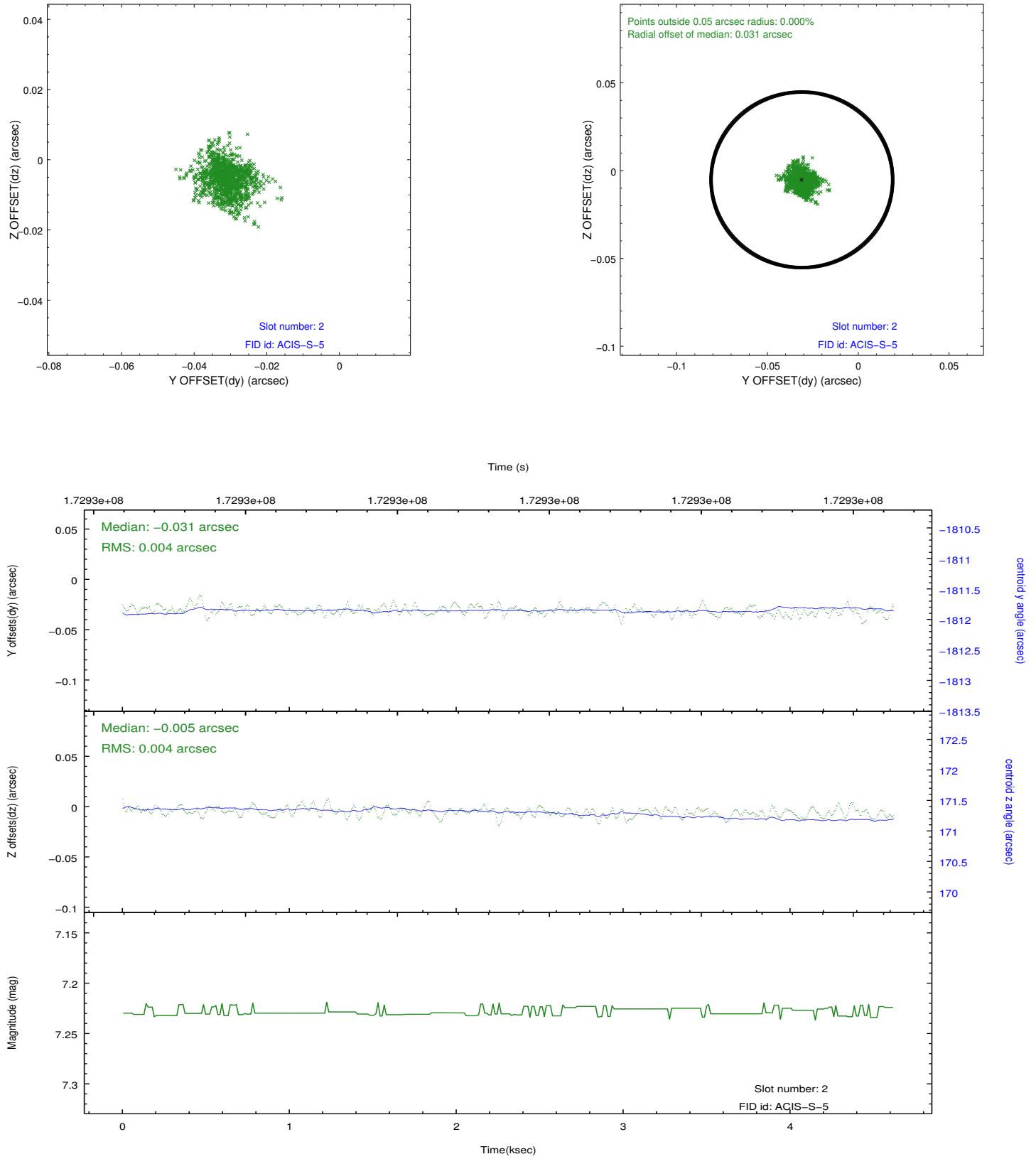
2.5.1 Slot 0



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)	2012.11.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.753

A.2 Comments