

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 4603 - L2 Version 3
Chandra X-Ray Center

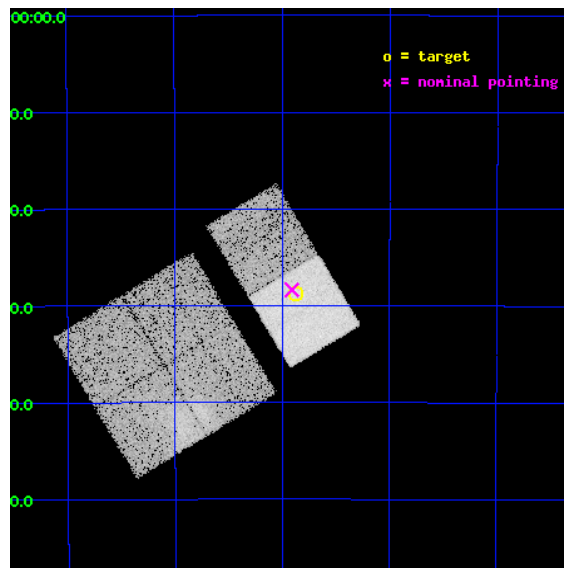
L2 Processing Date : Nov 30 2012

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1 Front

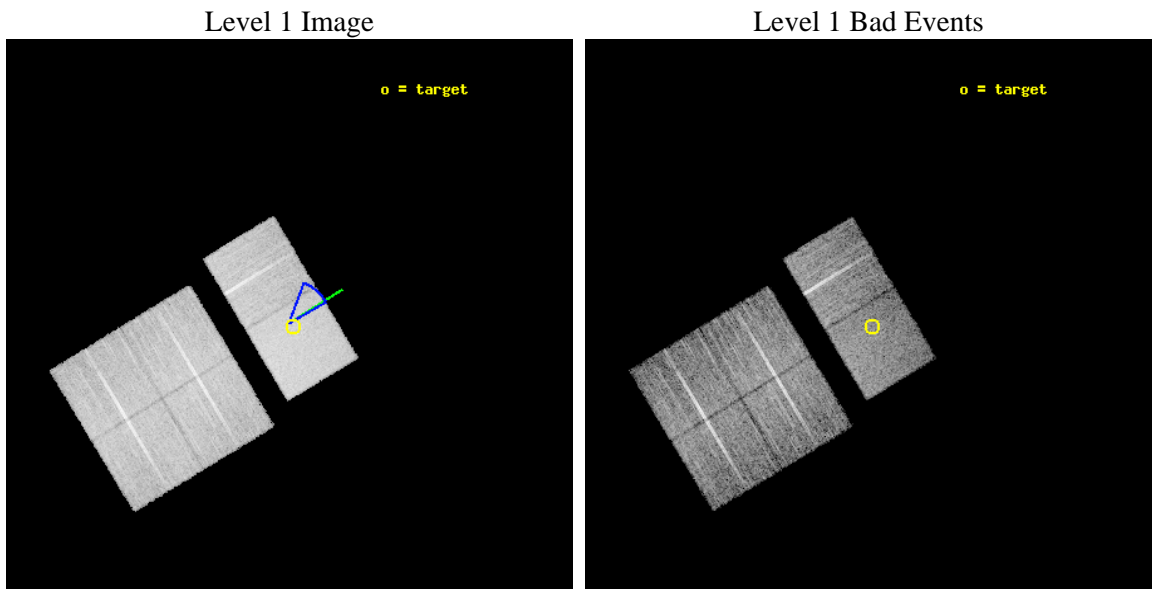
seq_num	500428	Sequence number
obs_id	4603	Observation id
title	Snapshot Observation of two Recently Discovered Radio Pulsars	Prop
observer	Professor Gordon Garmire	Principal investigator
object	PSR J1702-4128	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	255.71875	Observer's specified target RA [deg]
dec_targ	-41.480056	Observer's specified target Dec [deg]
ra_nom	255.72726878611	Nominal RA [deg]
dec_nom	-41.472703015075	Nominal Dec [deg]
roll_nom	58.901810479096	Nominal Roll [deg]
revision	3	Processing version of data
ontime	10517.260470778	Sum of GTIs [s]
livetime	10384.084585963	Livetime [s]
ontime0	10517.301510781	Sum of GTIs [s]
ontime1	10517.096310794	Sum of GTIs [s]
ontime2	10517.137350768	Sum of GTIs [s]
ontime3	10517.178390771	Sum of GTIs [s]
ontime6	10517.219430774	Sum of GTIs [s]
ontime7	10517.260470778	Sum of GTIs [s]
l2events	99175	Number of level 2 events



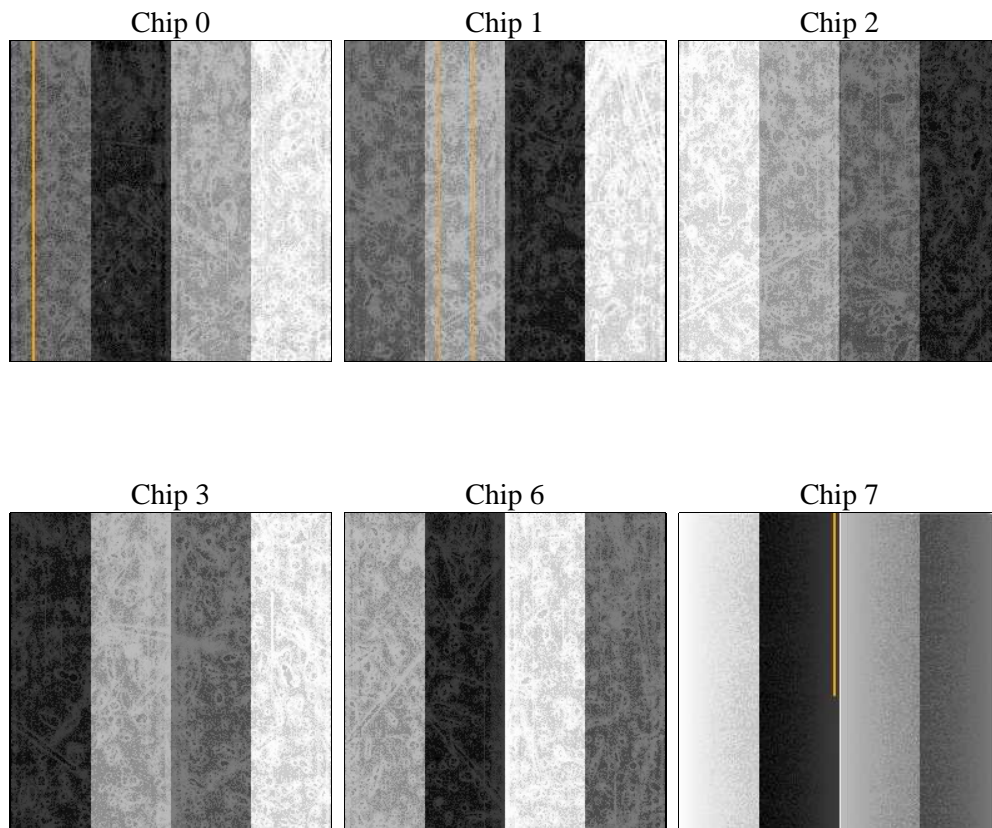
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10520.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	10517.260470778	Sum of GTIs [s]
caldsver	4.5.2	 	ontime0	10517.301510781	Sum of GTIs [s]
date	2012-11-30T16:44:14	Date and time of file creation	ontime1	10517.096310794	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	10517.137350768	Sum of GTIs [s]
			ontime3	10517.178390771	Sum of GTIs [s]
			ontime6	10517.219430774	Sum of GTIs [s]
			ontime7	10517.260470778	Sum of GTIs [s]
			l1events	488778	Number of level 1 events

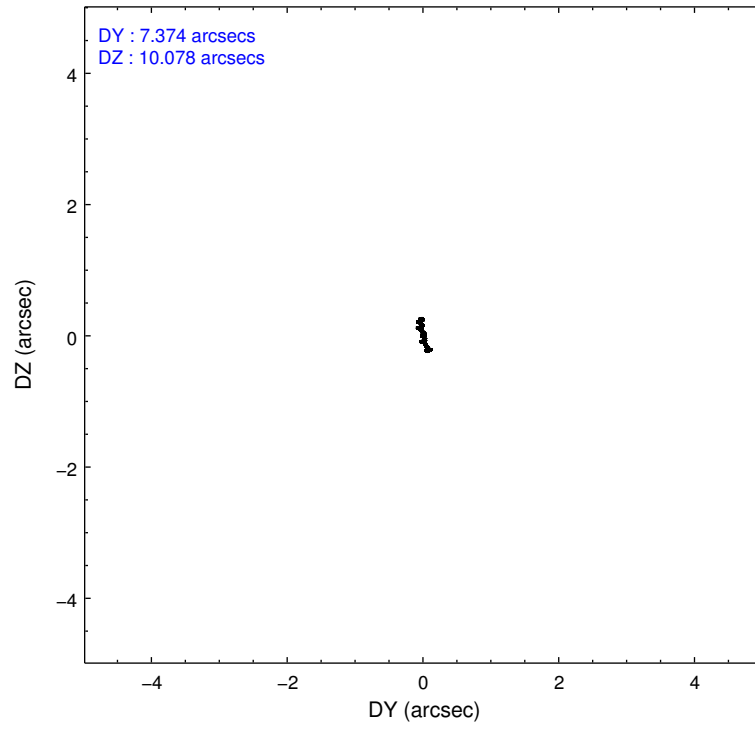
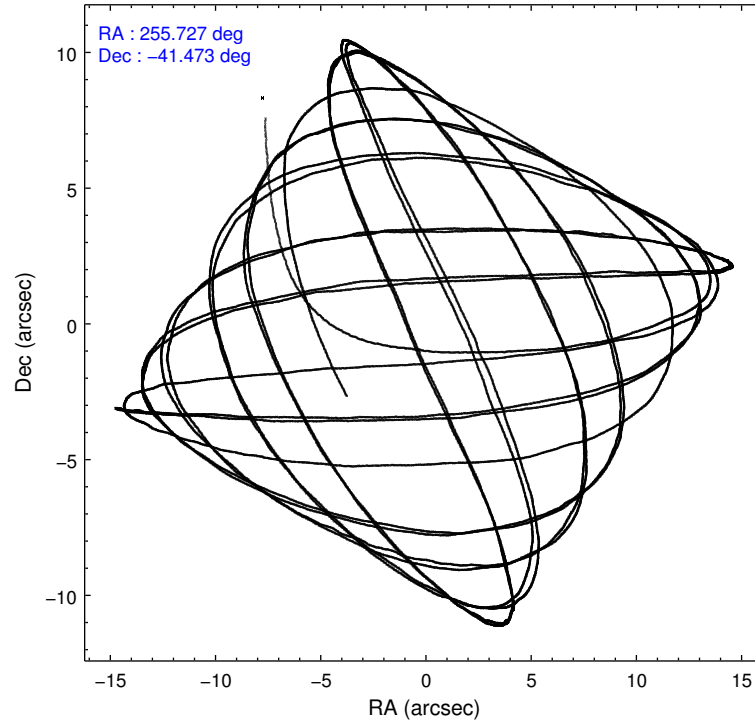
2.1.4 Events

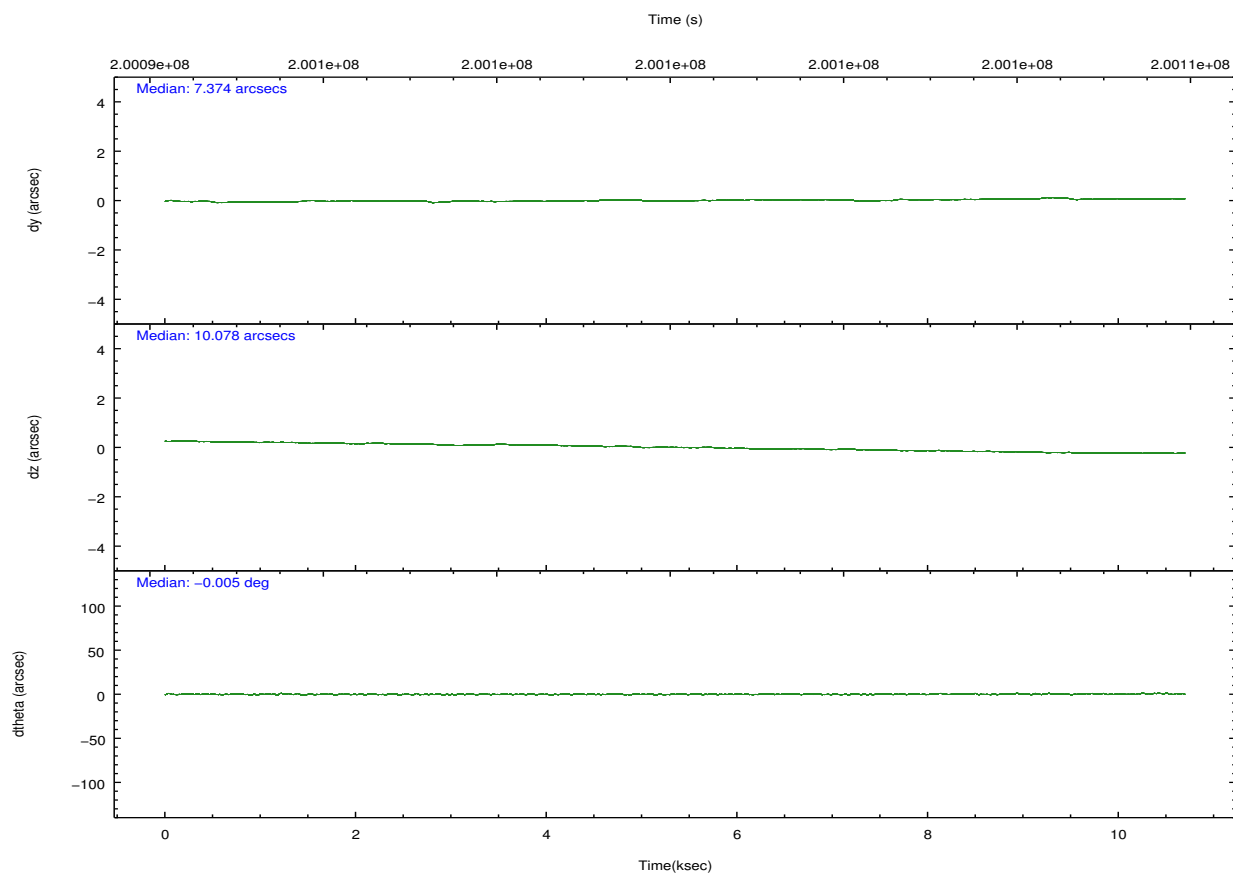
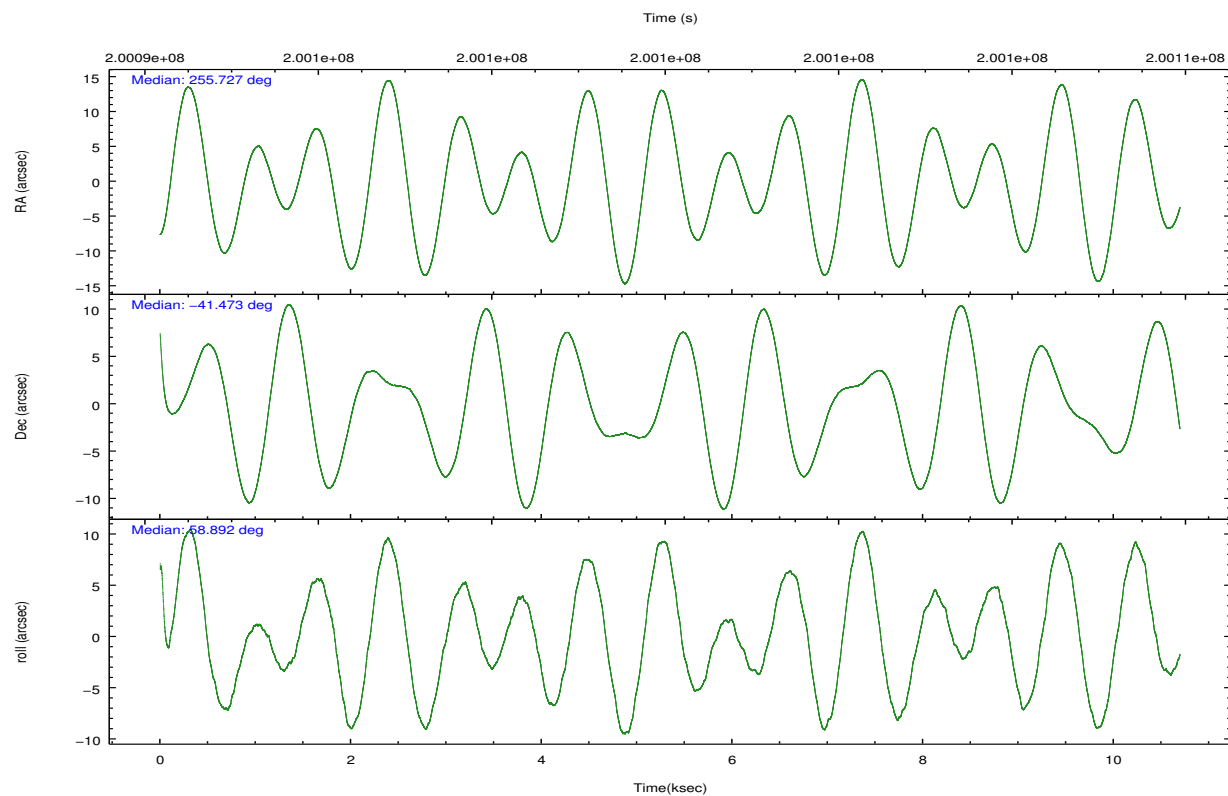
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	73763	74733	78636	76347	79426	105873	grade 0 events	5457	8403	5523	6798	5267	4227
rejected events	62688	59302	67642	63853	68216	59941		7%	11%	7%	8%	6%	3%
rejected %	84%	79%	86%	83%	85%	56%	grade 1 events	48	54	47	60	45	110
								0%	0%	0%	0%	0%	0%
							grade 2 events	2079	2754	1975	2064	2169	8928
								2%	3%	2%	2%	2%	8%
							grade 3 events	925	1107	1005	978	964	4084
								1%	1%	1%	1%	1%	3%
							grade 4 events	903	1146	922	975	899	3914
								1%	1%	1%	1%	1%	3%
							grade 5 events	3093	3302	3043	3265	3556	9959
								4%	4%	3%	4%	4%	9%
							grade 6 events	1713	2034	1580	1683	1920	24822
								2%	2%	2%	2%	2%	23%
							grade 7 events	59545	55933	64541	60524	64606	49829
								80%	74%	82%	79%	81%	47%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	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	255.727054	255.7272687861105	Subarray requested	NONE	NONE
[deg] Pointing Dec	-41.500007	-41.47270301507523	Alternating exposures requested	N	N
[deg] Pointing Roll	58.745020	58.90181047909561	[s] Primary exposure time	0.000000	3.2
[deg] Roll angle	40.000000	40.000000			
[deg] Roll tolerance	20.000000	20.000000			
Roll constraint allows 180D rotation	N	N			
[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)	200094883.184000	200093771.83336			
Observation start date	2004-05-04T21:53:39	2004-05-04T21:36:11			
[s] Observation end time (MET)	200105403.184000	200106641.22142			
Observation end date	2004-05-05T00:48:59	2004-05-05T01:10:41			
Read mode	TIMED	TIMED			

2.3 Aspect



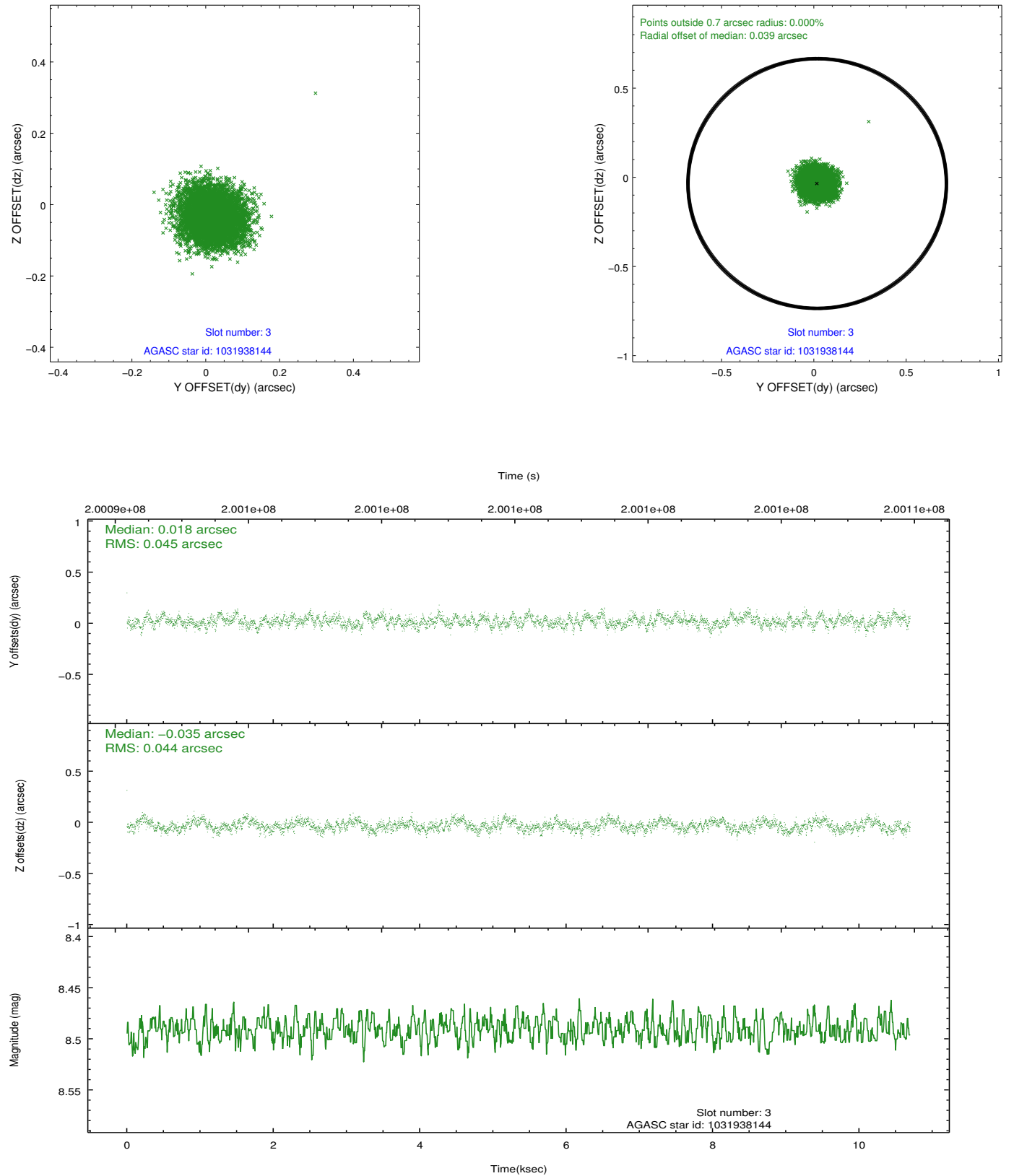


Slot Statistics

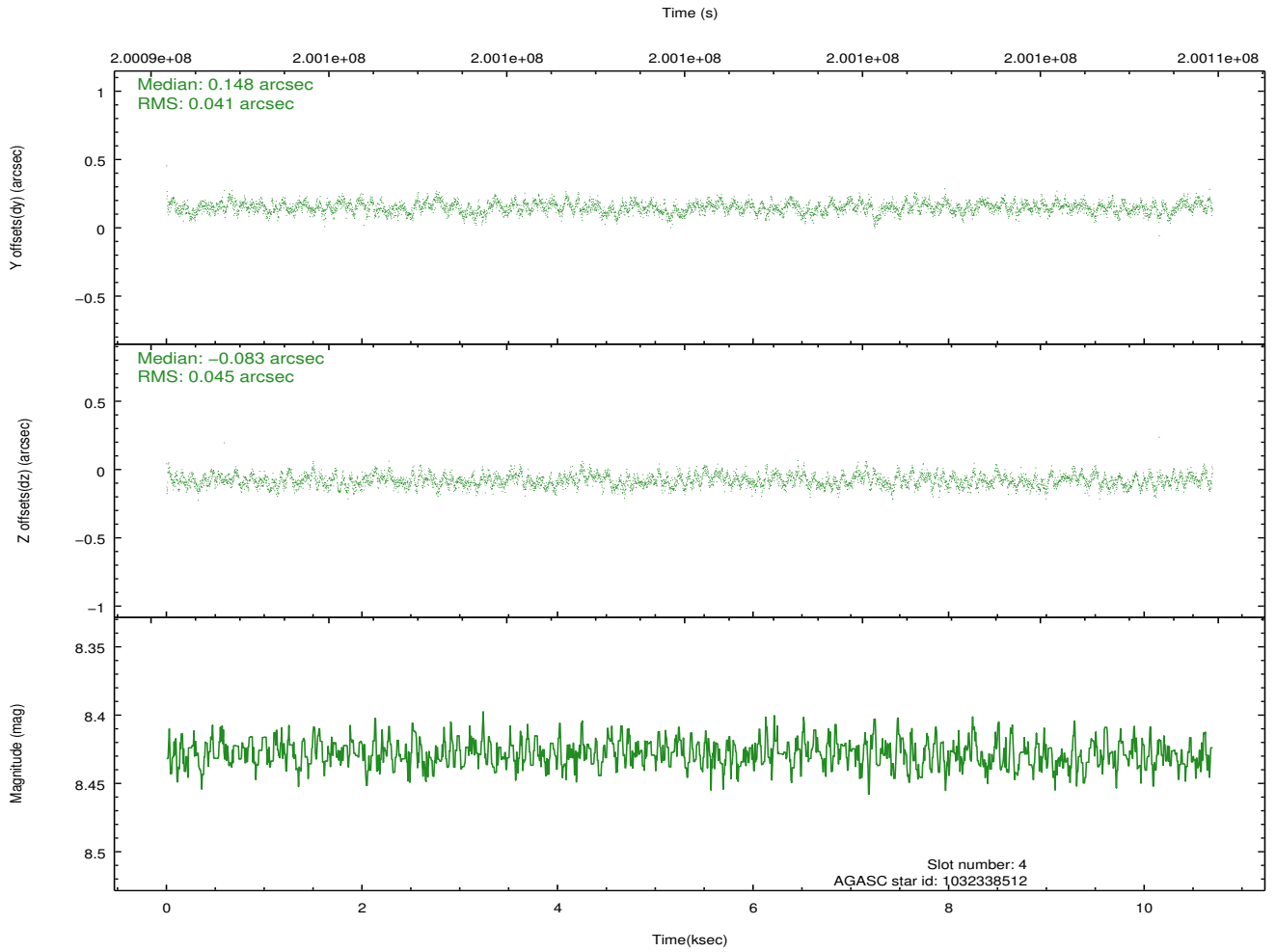
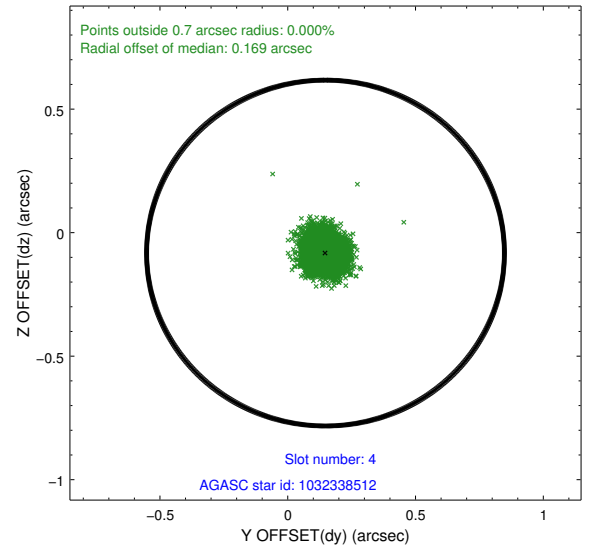
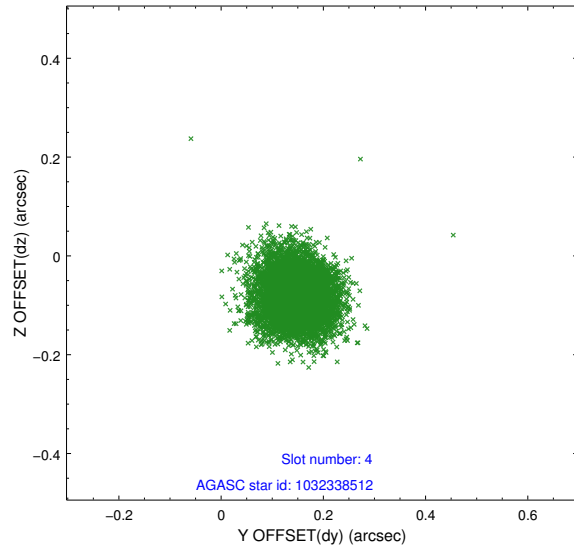
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	2610	-0.043	-0.015	0.008	0.012	0.000000	0.000000	-760.14	-1731.36
1	FID	ACIS-S-4	7.20	2609	0.077	0.025	0.005	0.010	0.000000	0.000000	2152.99	176.73
2	FID	ACIS-S-5	7.23	2610	-0.065	-0.001	0.008	0.014	0.000000	0.000000	-1812.43	170.84
3	GUIDE	1031938144	8.49	5217	0.018	-0.035	0.068	0.107	255.693343	-40.912652	1759.88	1175.65
4	GUIDE	1032338512	8.43	5219	0.148	-0.083	0.065	0.102	254.833160	-41.405214	-971.21	2233.75
5	GUIDE	1031937520	8.22	5218	-0.078	0.173	0.057	0.092	256.333720	-41.104608	2065.72	-670.42
6	GUIDE	1032338640	8.78	5217	0.059	-0.275	0.071	0.122	254.873262	-41.277846	-524.47	2383.00
7	GUIDE	1032461400	8.89	5217	-0.147	0.218	0.070	0.115	256.843727	-41.417736	1800.97	-2432.68

2.4 Star Slots

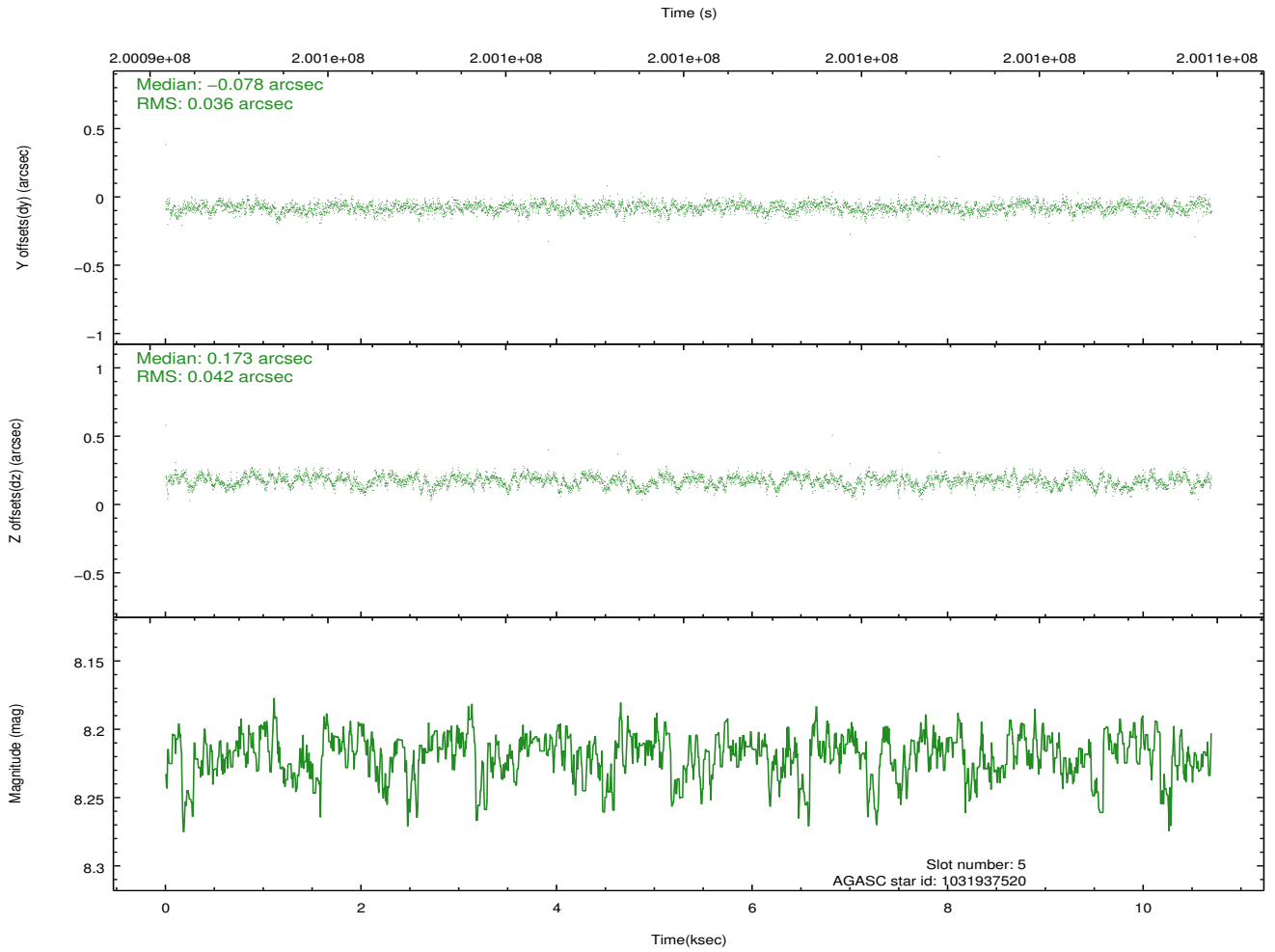
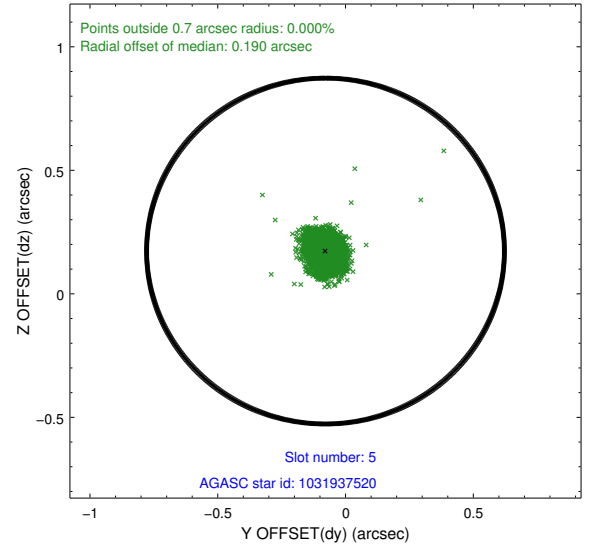
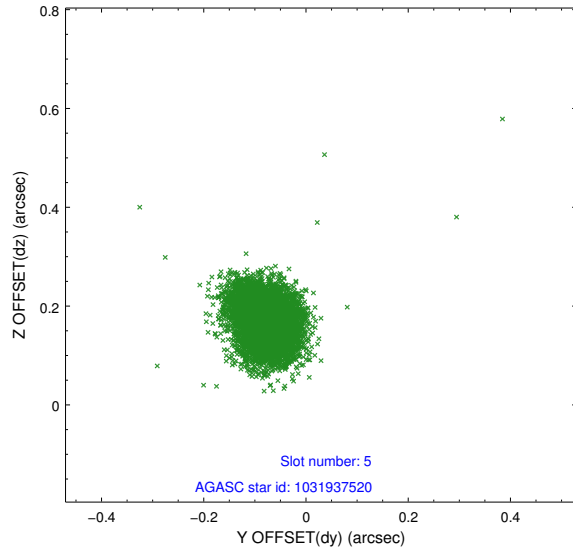
2.4.1 Slot 3



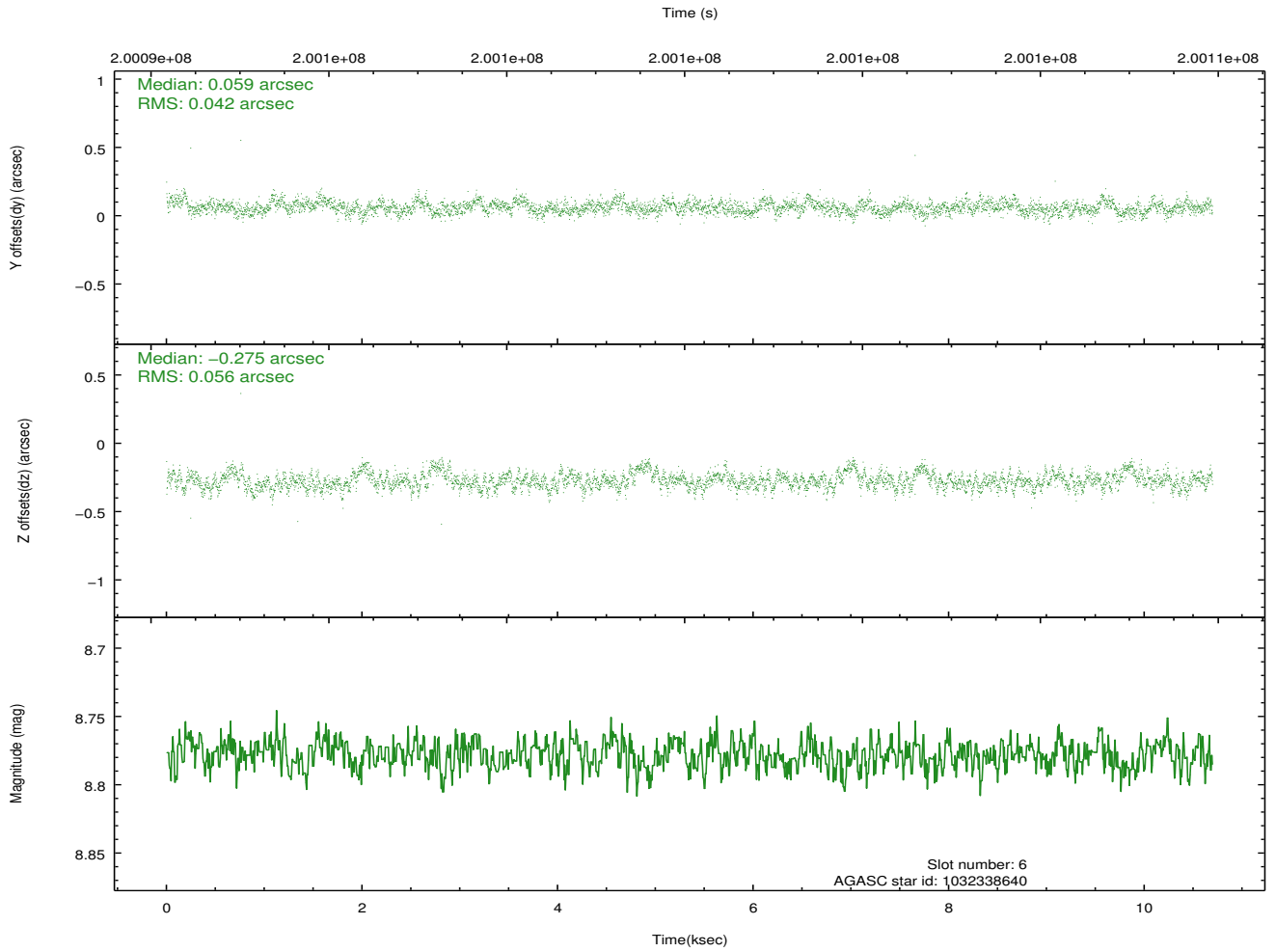
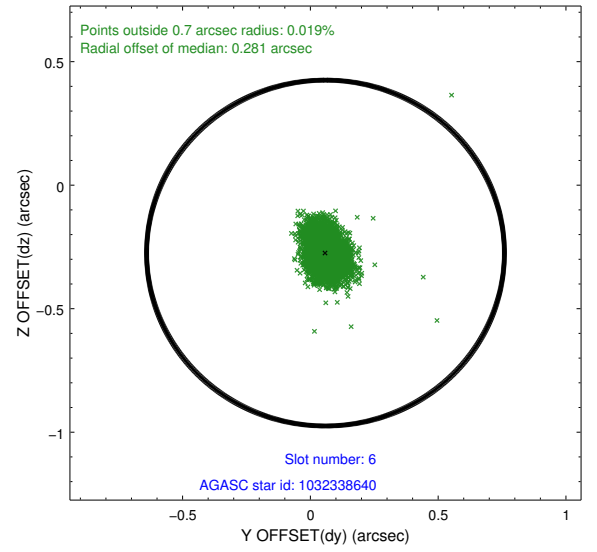
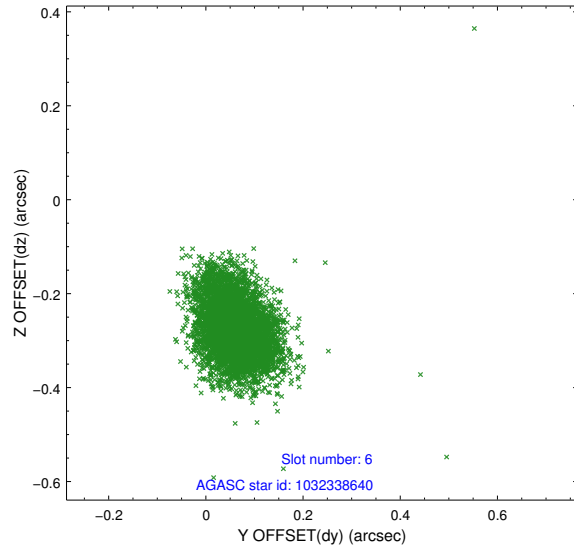
2.4.2 Slot 4



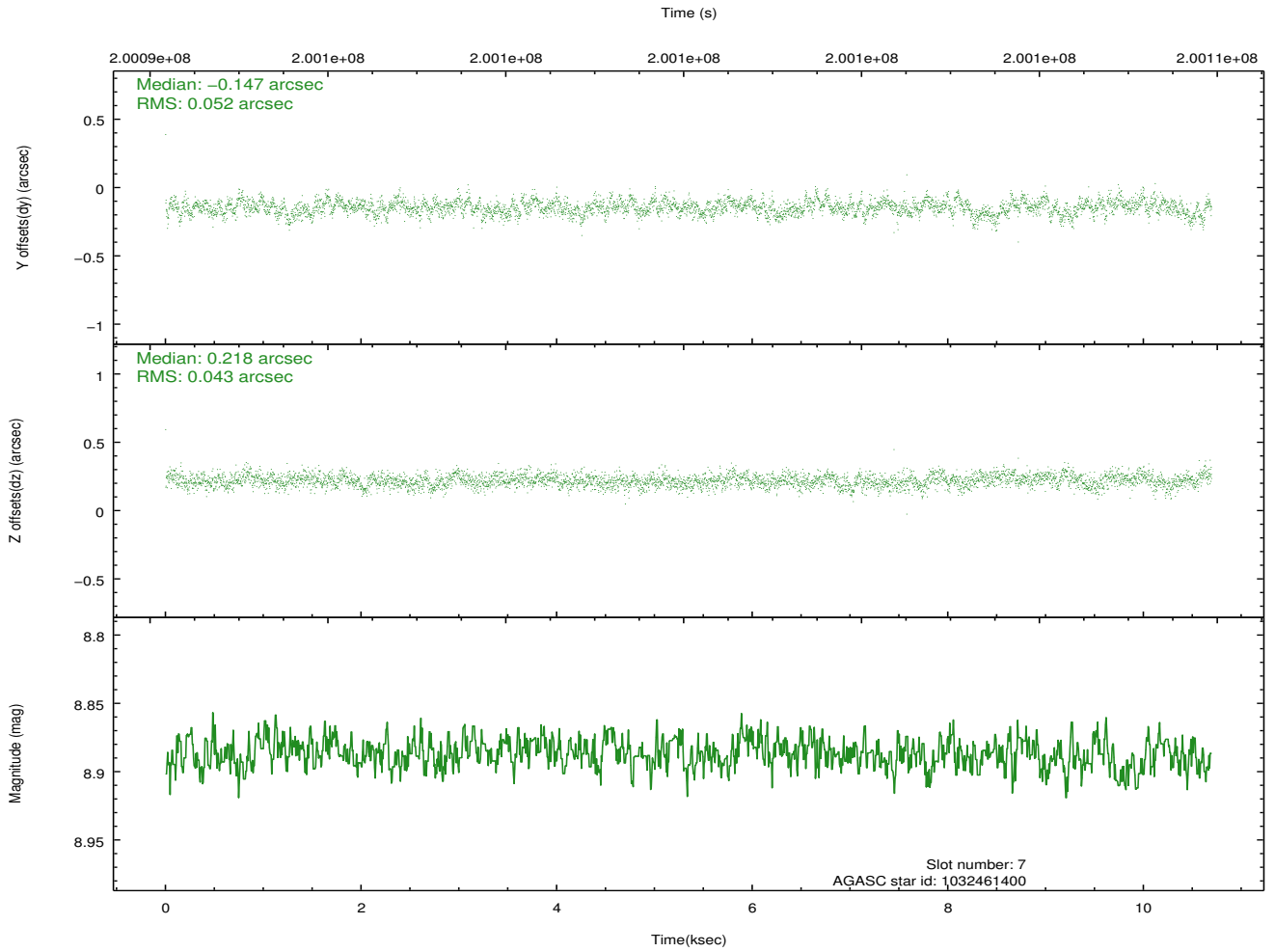
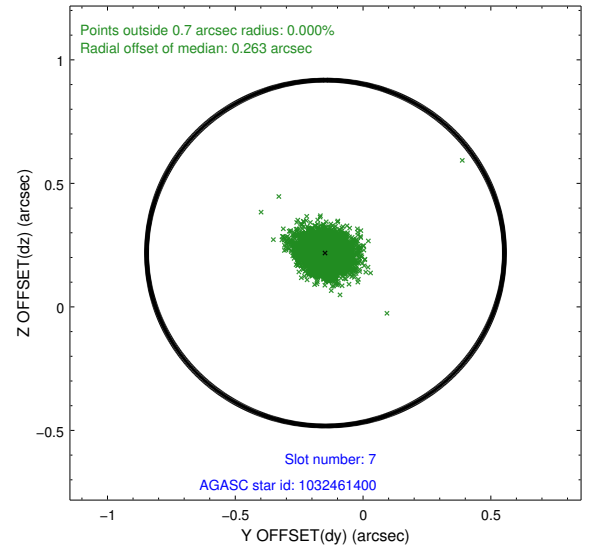
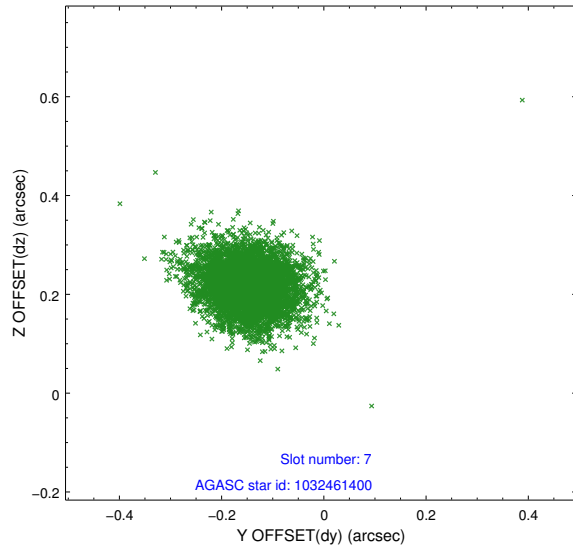
2.4.3 Slot 5



2.4.4 Slot 6

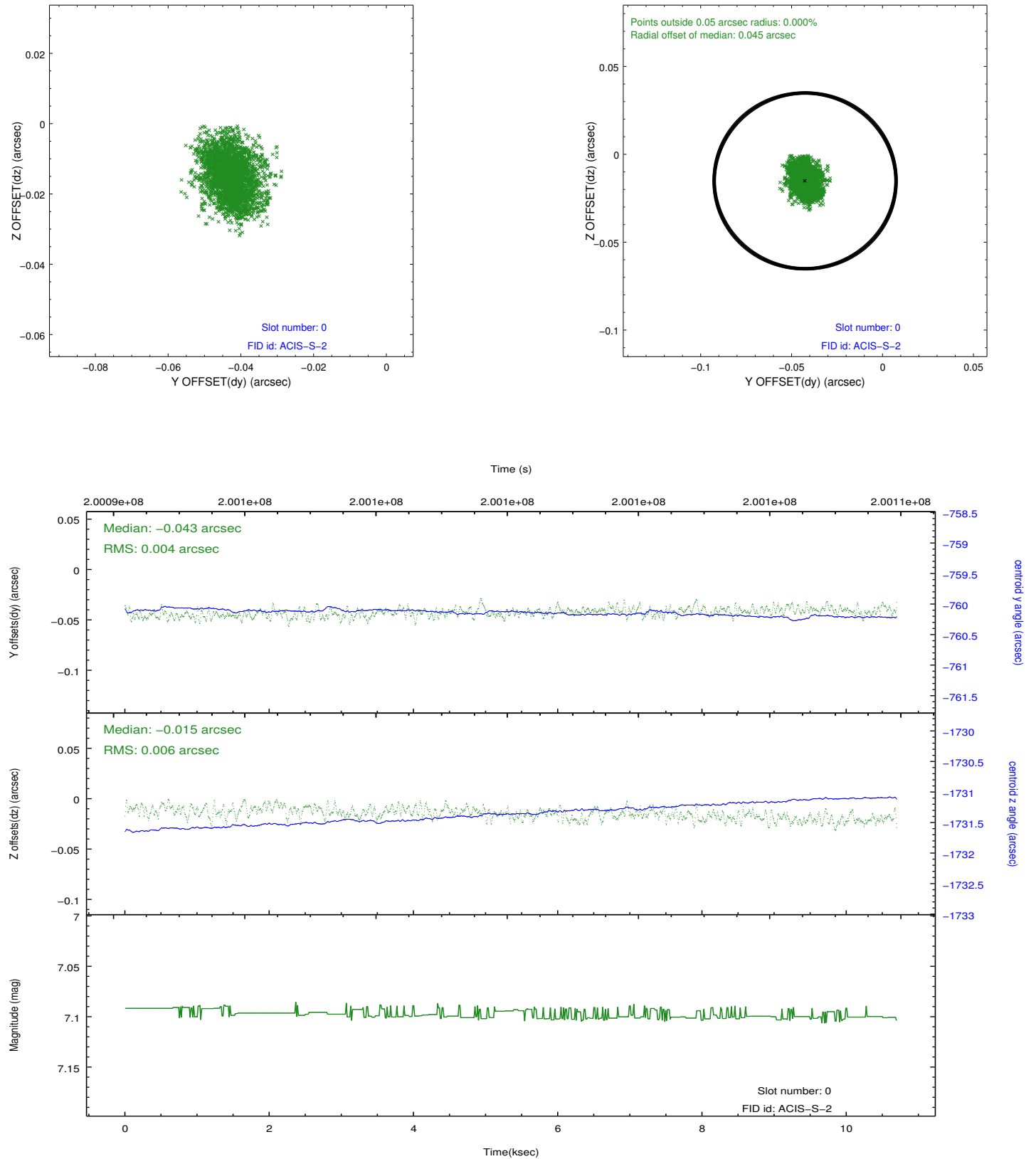


2.4.5 Slot 7

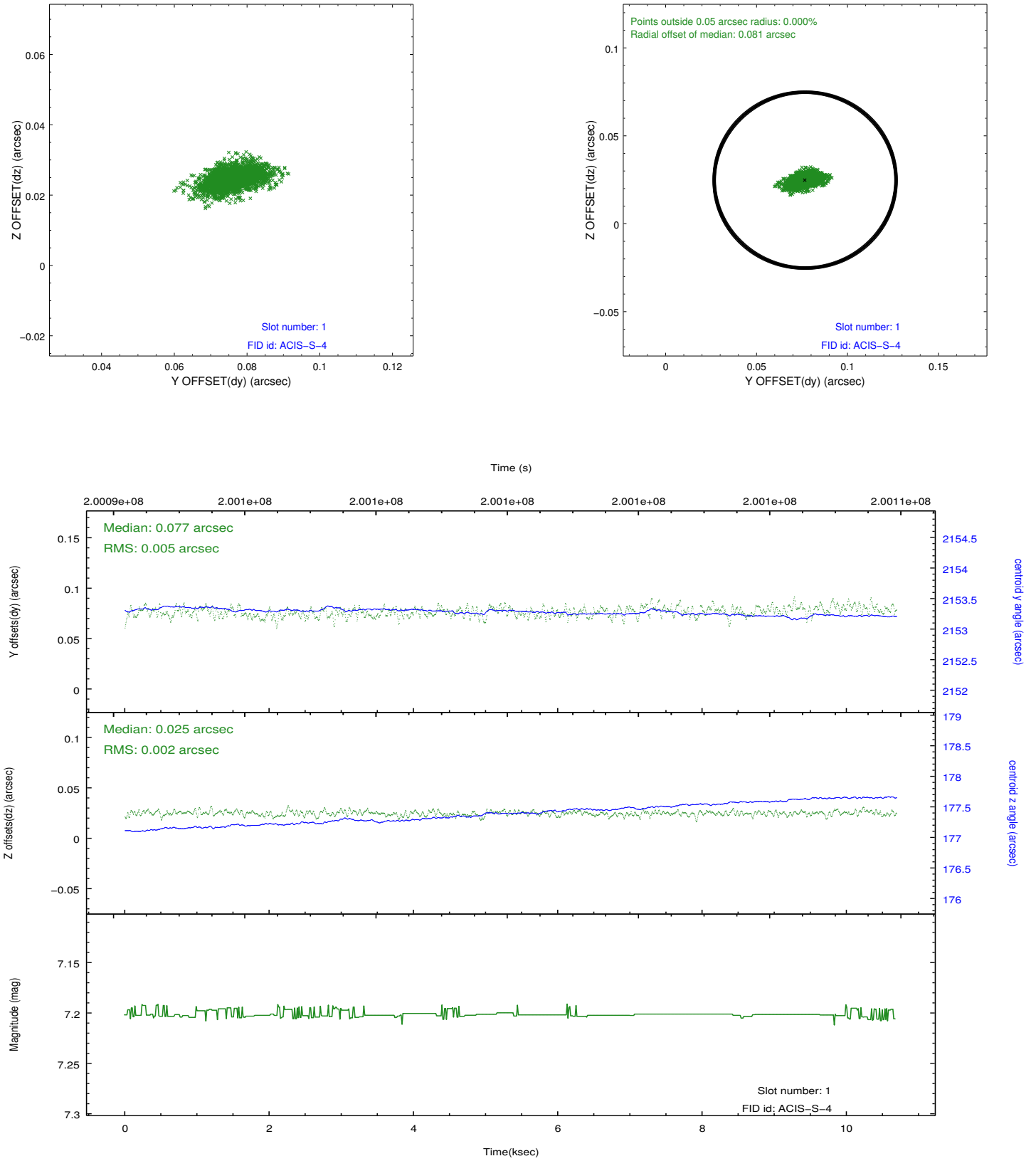


2.5 FID Slots

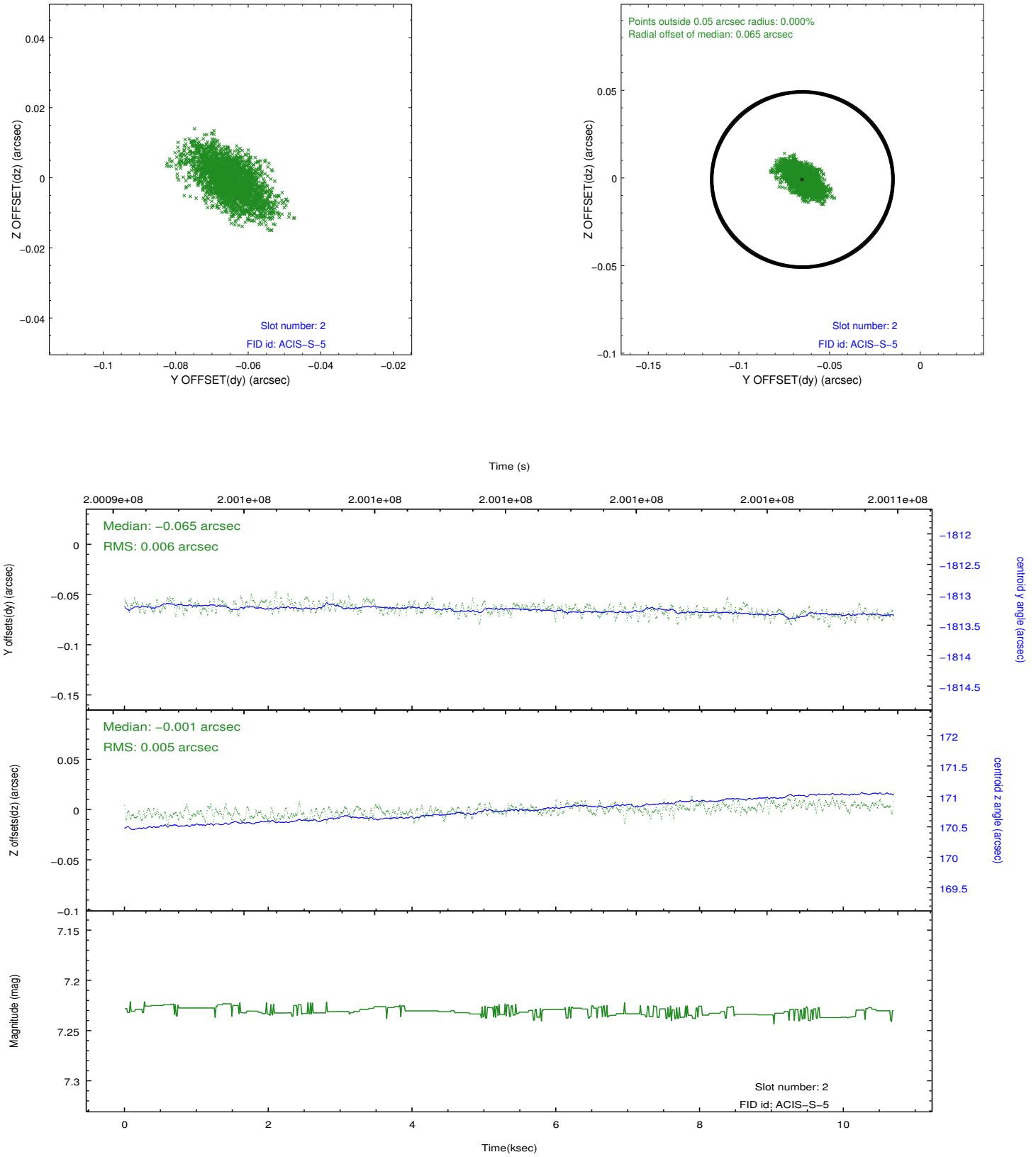
2.5.1 Slot 0



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)	2012.12.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.518

A.2 Comments

Roll constraint satisfied.