

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 4128 - L2 Version 3
Chandra X-Ray Center

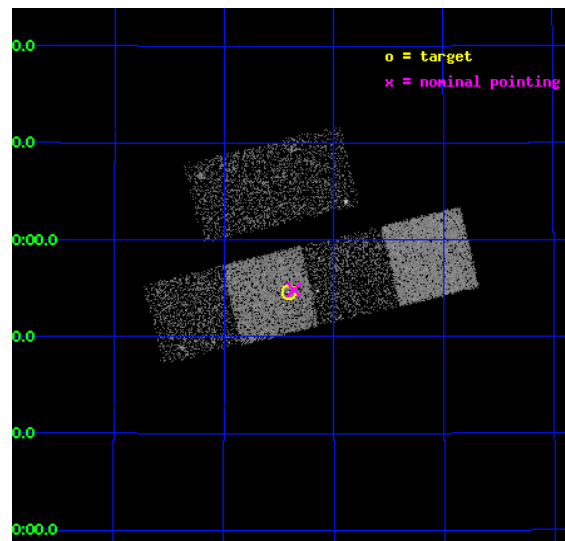
L2 Processing Date : Oct 28 2012

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1 Front

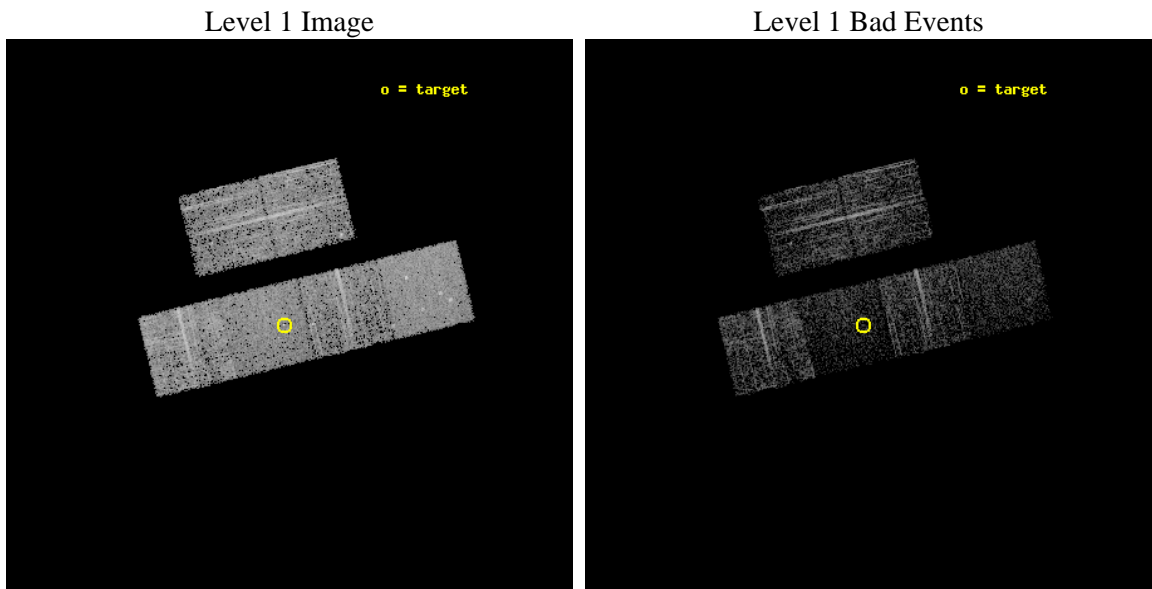
seq_num	700807	Sequence number
obs_id	4128	Observation id
title	WHAT KIND OF JETS DOES NATURE MAKE? X-RAY CHARACTERIZATION OF THE FIRST FLAT SPECTRUM SAMPLE	Proposal title
observer	Dr. Giovanni Fossati	Principal investigator
object	B3 1659+399	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	255.3525	Observer's specified target RA [deg]
dec_targ	39.910306	Observer's specified target Dec [deg]
ra_nom	255.34095506328	Nominal RA [deg]
dec_nom	39.914158087257	Nominal Dec [deg]
roll_nom	166.41045222412	Nominal Roll [deg]
revision	3	Processing version of data
ontime	3638.3999864459	Sum of GTIs [s]
livetime	3592.3283750361	Livetime [s]
ontime2	3638.3999864459	Sum of GTIs [s]
ontime3	3631.9180659354	Sum of GTIs [s]
ontime5	3638.3999864459	Sum of GTIs [s]
ontime6	3638.3999864459	Sum of GTIs [s]
ontime7	3638.3999864459	Sum of GTIs [s]
ontime8	3638.3999864459	Sum of GTIs [s]
l2events	25451	Number of level 2 events



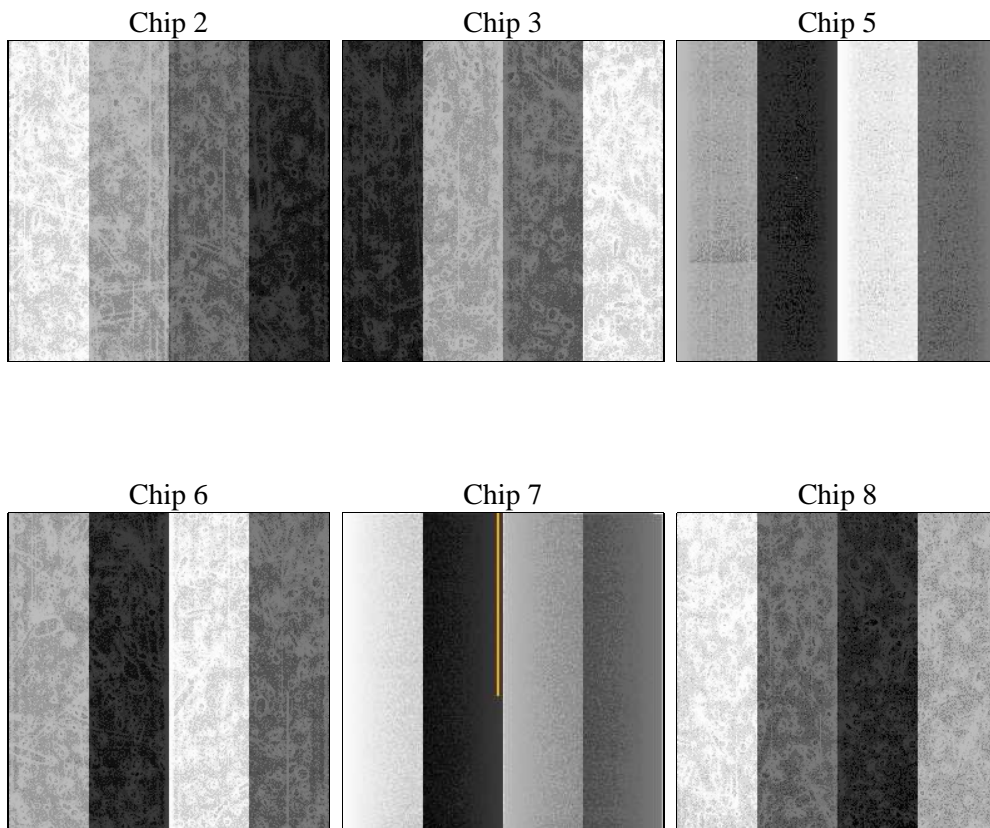
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	3500.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	3638.3999864459	Sum of GTIs [s]
caldsver	4.5.2	 	ontime2	3638.3999864459	Sum of GTIs [s]
date	2012-10-28T13:30:31	Date and time of file creation	ontime3	3631.9180659354	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	3638.3999864459	Sum of GTIs [s]
			ontime6	3638.3999864459	Sum of GTIs [s]
			ontime7	3638.3999864459	Sum of GTIs [s]
			ontime8	3638.3999864459	Sum of GTIs [s]
			l1events	148426	Number of level 1 events

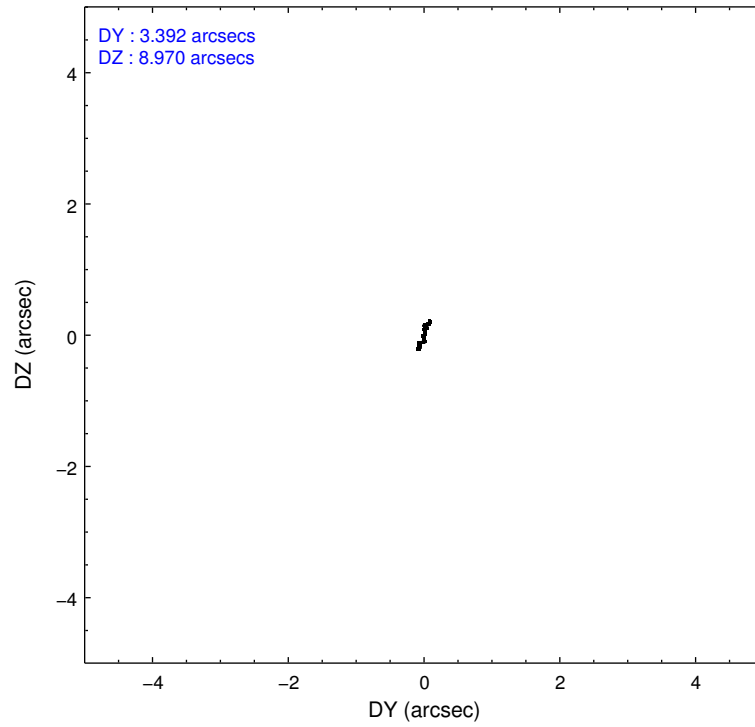
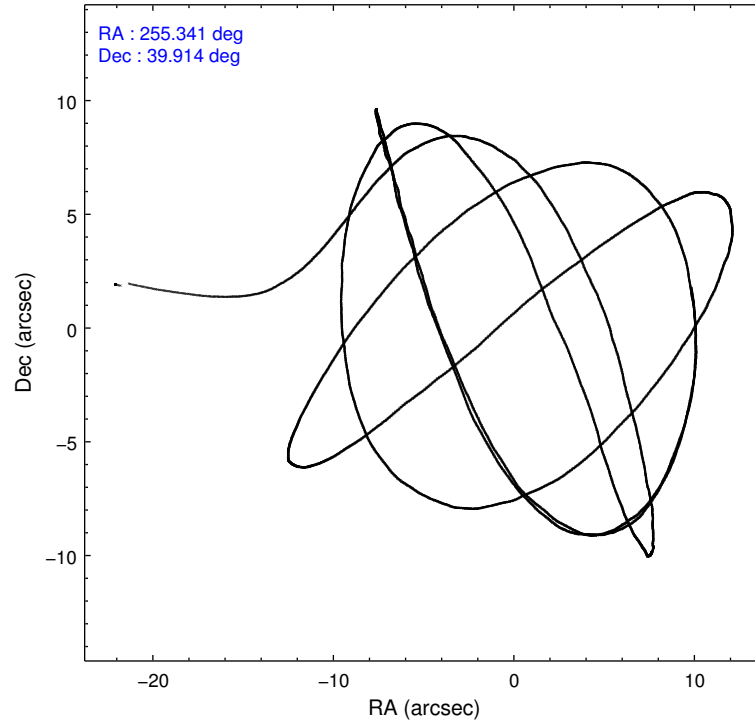
2.1.4 Events

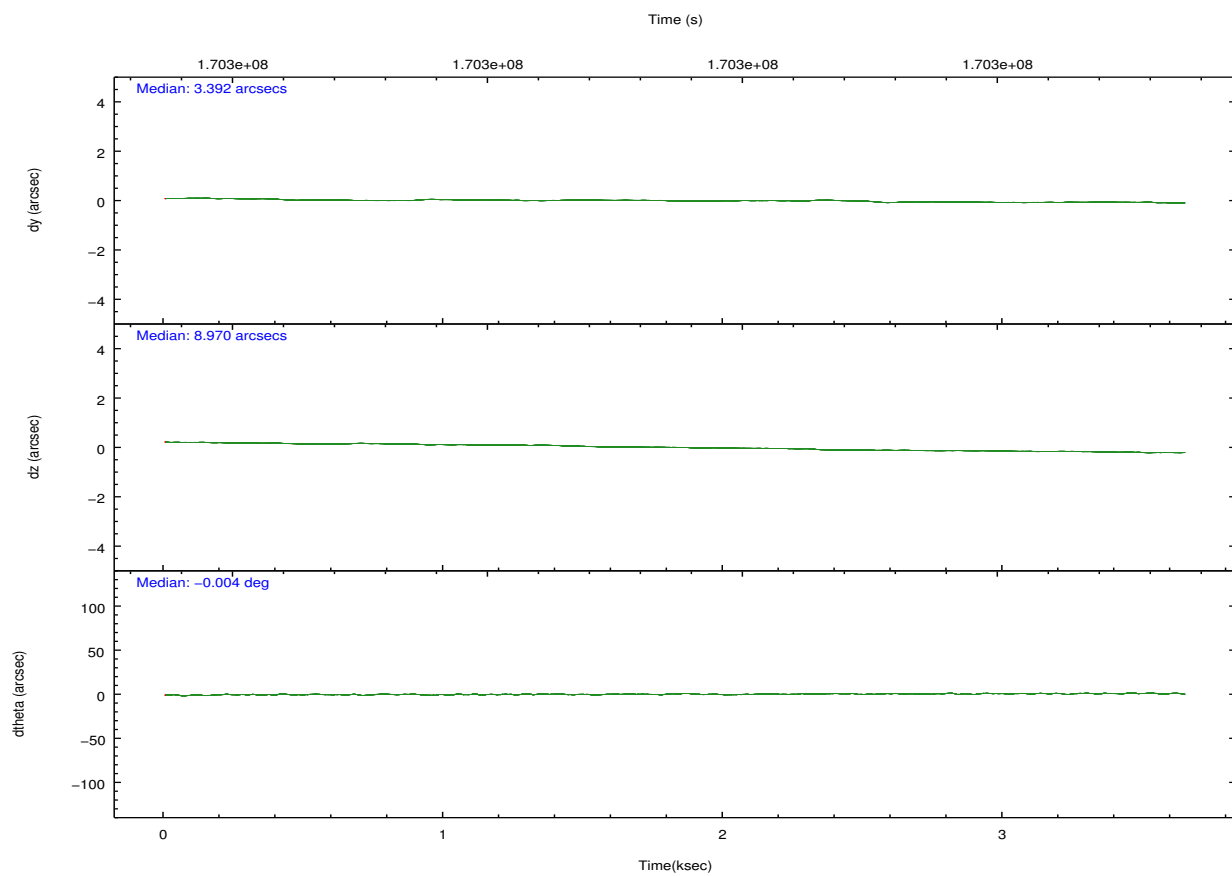
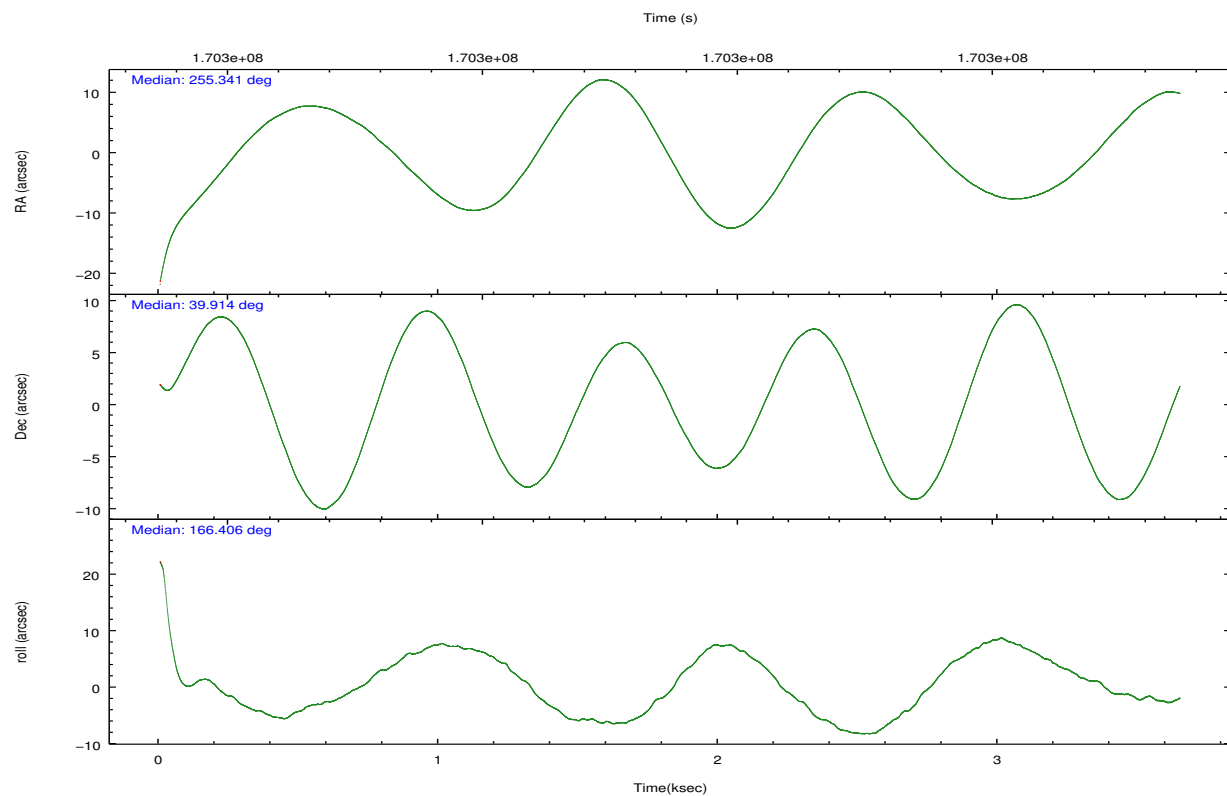
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	25067	22580	27600	22010	21360	29809	grade 0 events	966	829	1770	899	1161	1832
rejected events	23109	20828	15975	20056	12849	24401		3%	3%	6%	4%	5%	6%
rejected %	92%	92%	57%	91%	60%	81%	grade 1 events	9	12	50	15	22	20
								0%	0%	0%	0%	0%	0%
							grade 2 events	561	426	4292	471	2206	1503
								2%	1%	15%	2%	10%	5%
							grade 3 events	247	275	738	310	1057	844
								0%	1%	2%	1%	4%	2%
							grade 4 events	237	227	670	255	1036	724
								0%	1%	2%	1%	4%	2%
							grade 5 events	658	705	2410	722	2281	1166
								2%	3%	8%	3%	10%	3%
							grade 6 events	376	424	7257	481	5160	1856
								1%	1%	26%	2%	24%	6%
							grade 7 events	22013	19682	10413	18857	8437	21864
								87%	87%	37%	85%	39%	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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	255.374873	255.3409550632786	Subarray requested	NONE	NONE
[deg] Pointing Dec	39.922238	39.91415808725746	Alternating exposures requested	N	N
[deg] Pointing Roll	166.232003	166.4104522241186	[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)	170299067.184000	170297536.63241			
Observation start date	2003-05-26T01:16:43	2003-05-26T00:52:16			
[s] Observation end time (MET)	170302567.184000	170303239.22016			
Observation end date	2003-05-26T02:15:03	2003-05-26T02:27:19			
Read mode	TIMED	TIMED			

2.3 Aspect



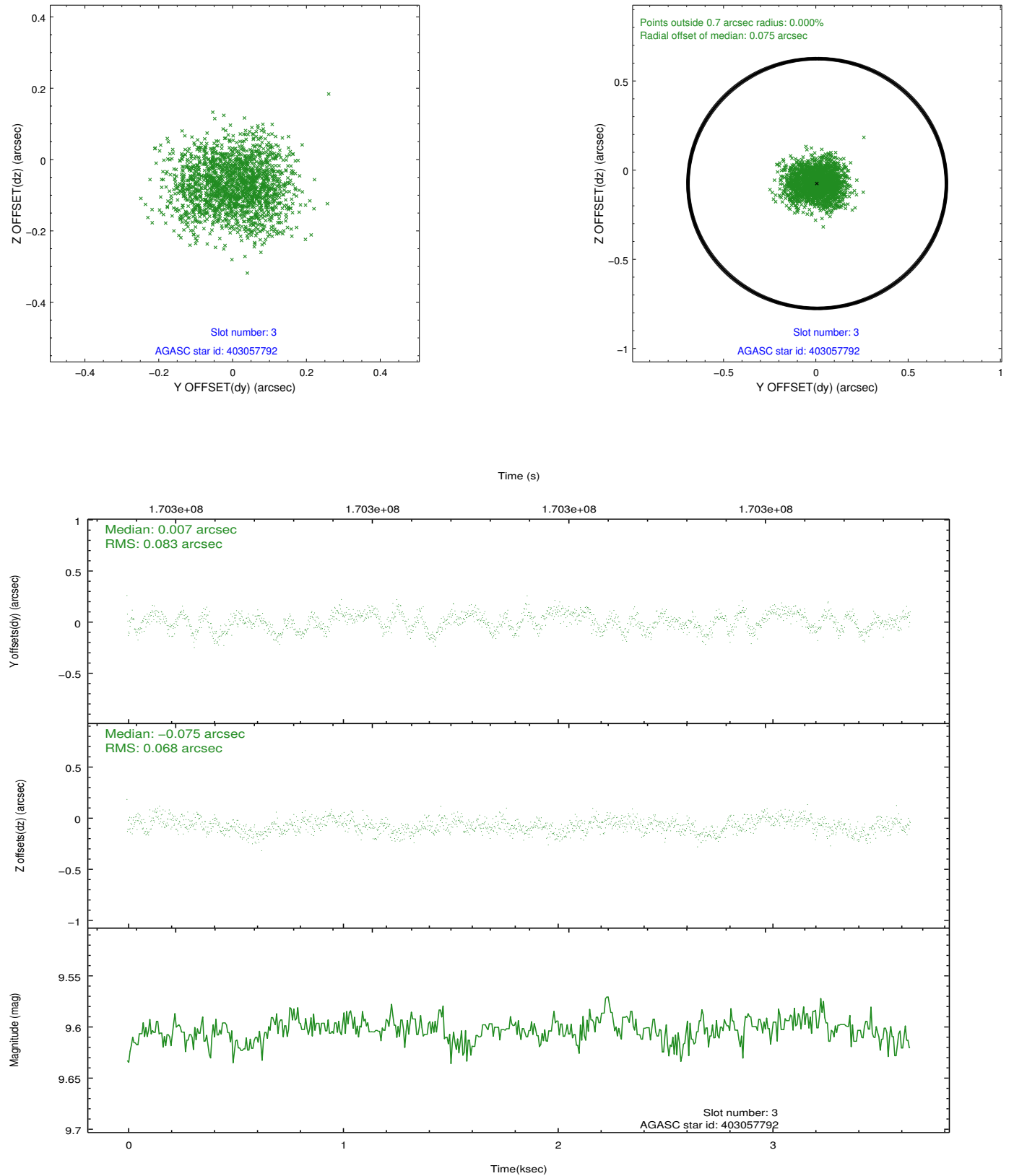


Slot Statistics

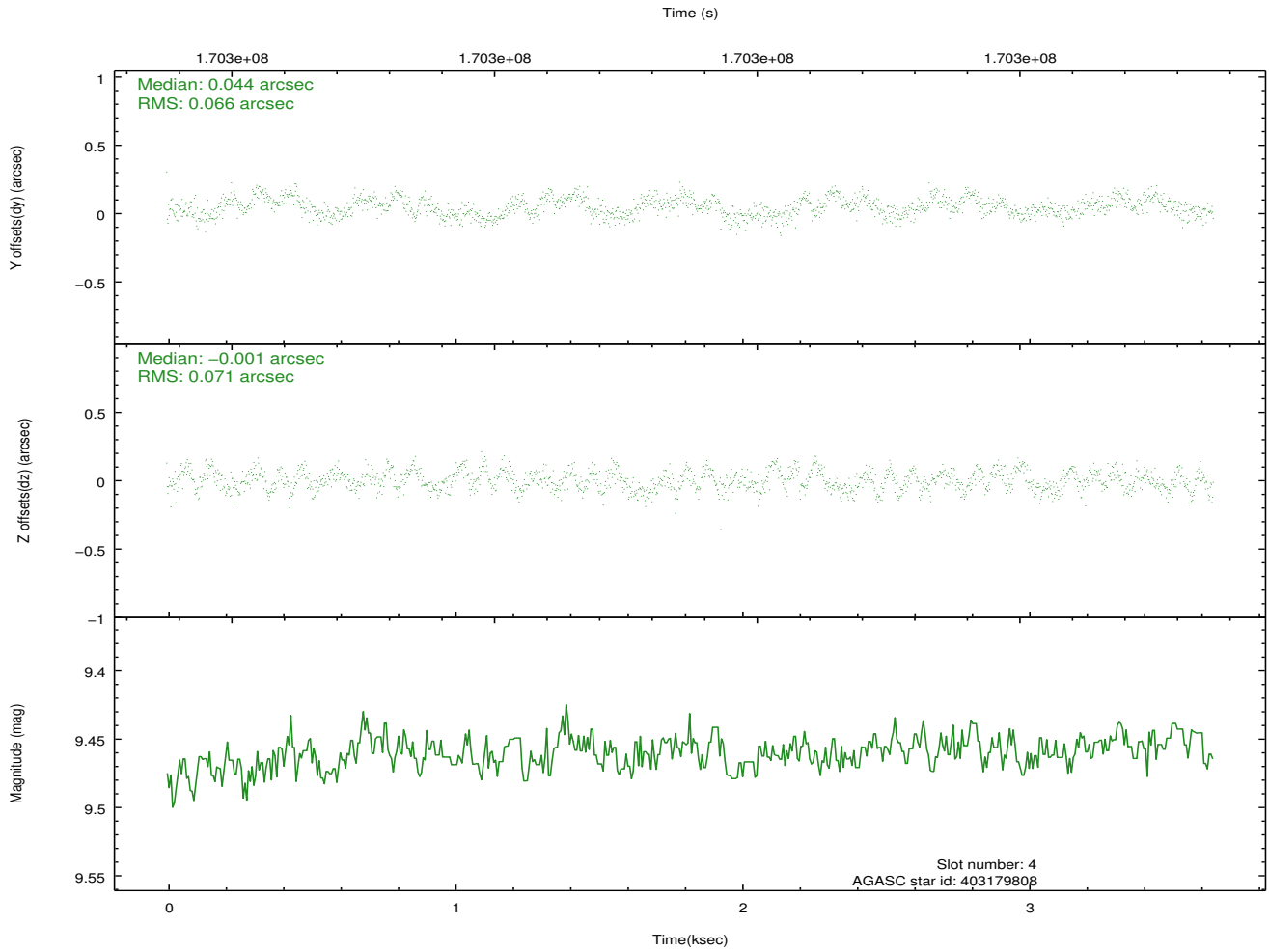
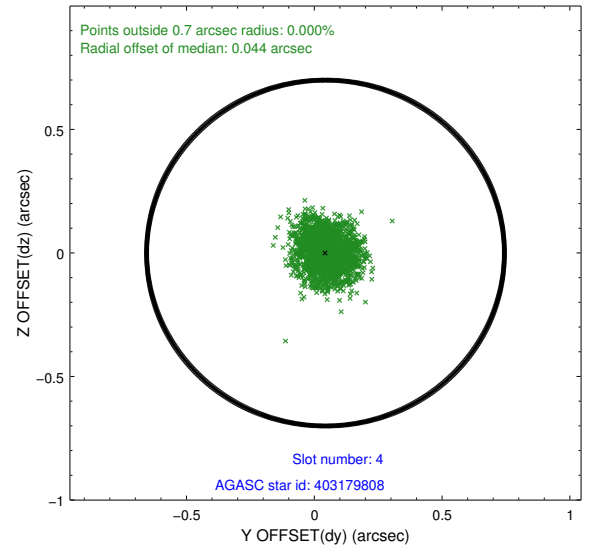
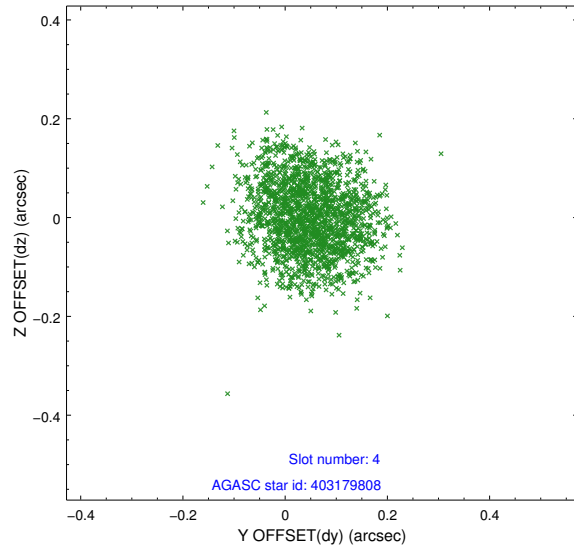
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	890	-0.026	-0.017	0.008	0.012	0.000000	0.000000	-756.05	-1730.16
1	FID	ACIS-S-4	7.20	890	0.022	0.017	0.007	0.012	0.000000	0.000000	2156.48	176.60
2	FID	ACIS-S-5	7.24	890	-0.028	0.009	0.007	0.011	0.000000	0.000000	-1806.68	172.20
3	GUIDE	403057792	9.60	1780	0.007	-0.075	0.116	0.179	254.680453	39.420697	1447.85	2206.12
4	GUIDE	403179808	9.46	1779	0.044	-0.001	0.105	0.157	255.693754	40.436381	-406.61	-2005.90
5	GUIDE	403054896	8.73	1780	-0.046	0.051	0.075	0.119	254.417855	39.716866	2401.24	1334.17
6	GUIDE	403056336	9.61	1780	-0.008	-0.054	0.131	0.210	254.706314	39.541575	1479.64	1766.88
7	GUIDE	403184536	9.58	1778	0.000	0.085	0.131	0.210	255.997841	40.470667	-1184.70	-2328.44

2.4 Star Slots

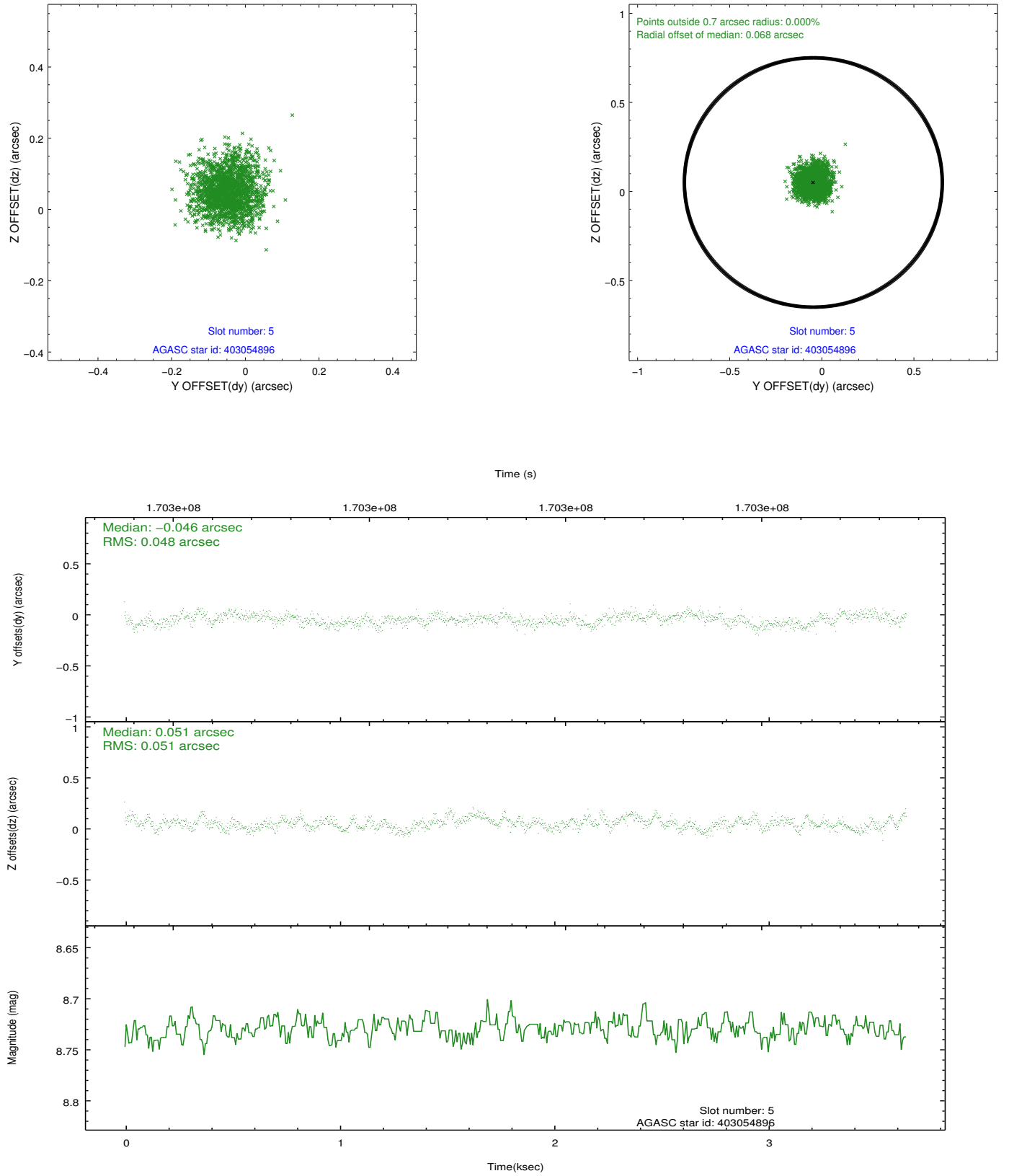
2.4.1 Slot 3



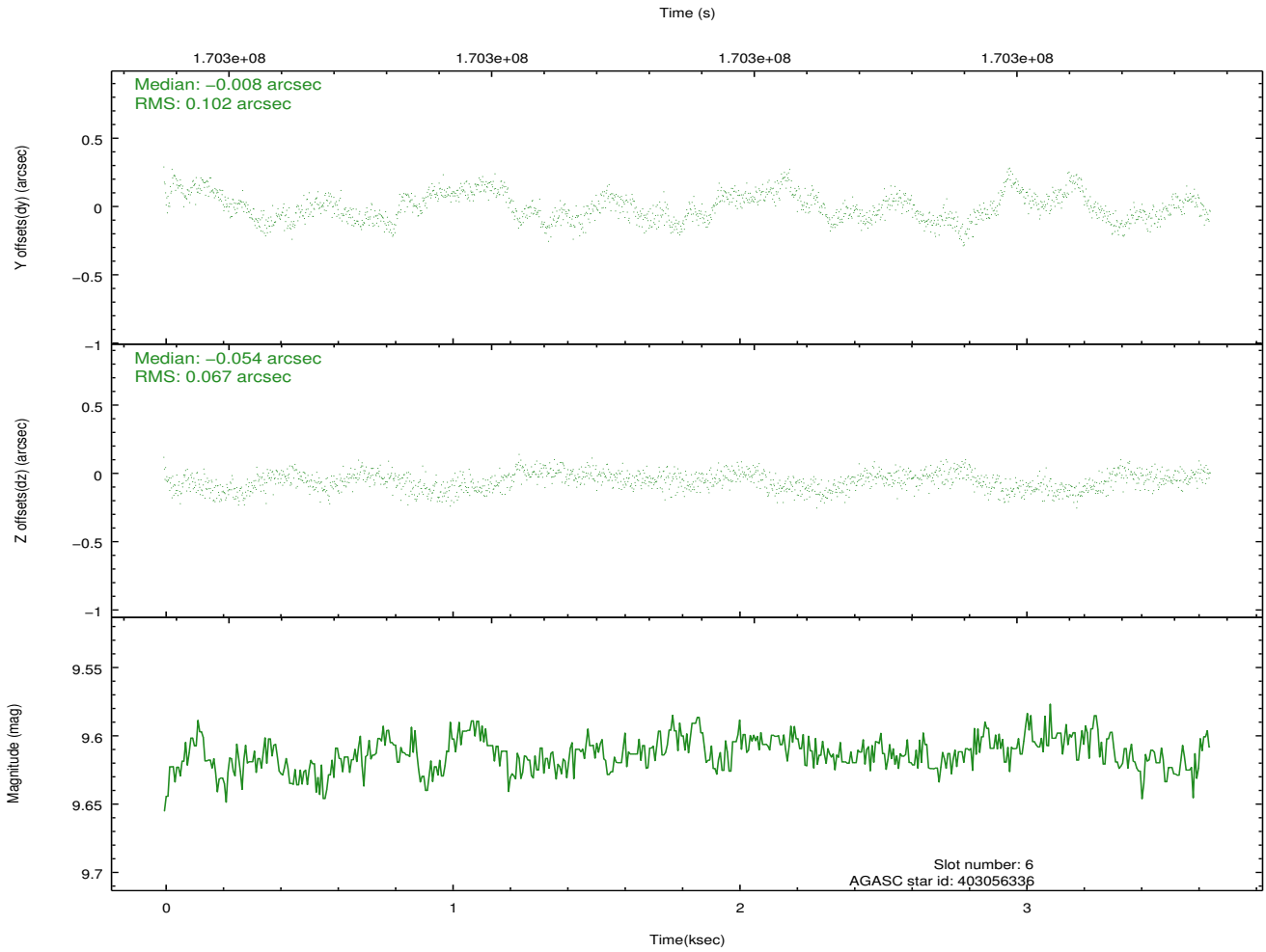
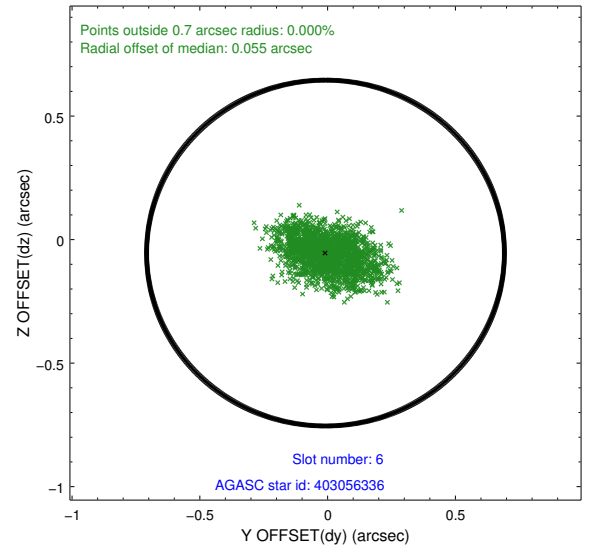
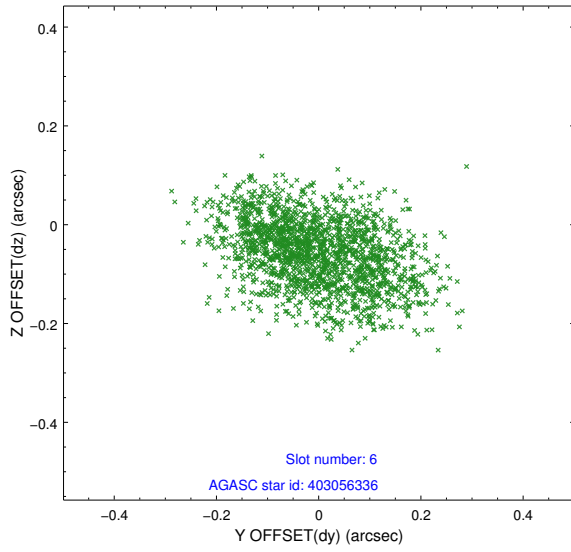
2.4.2 Slot 4



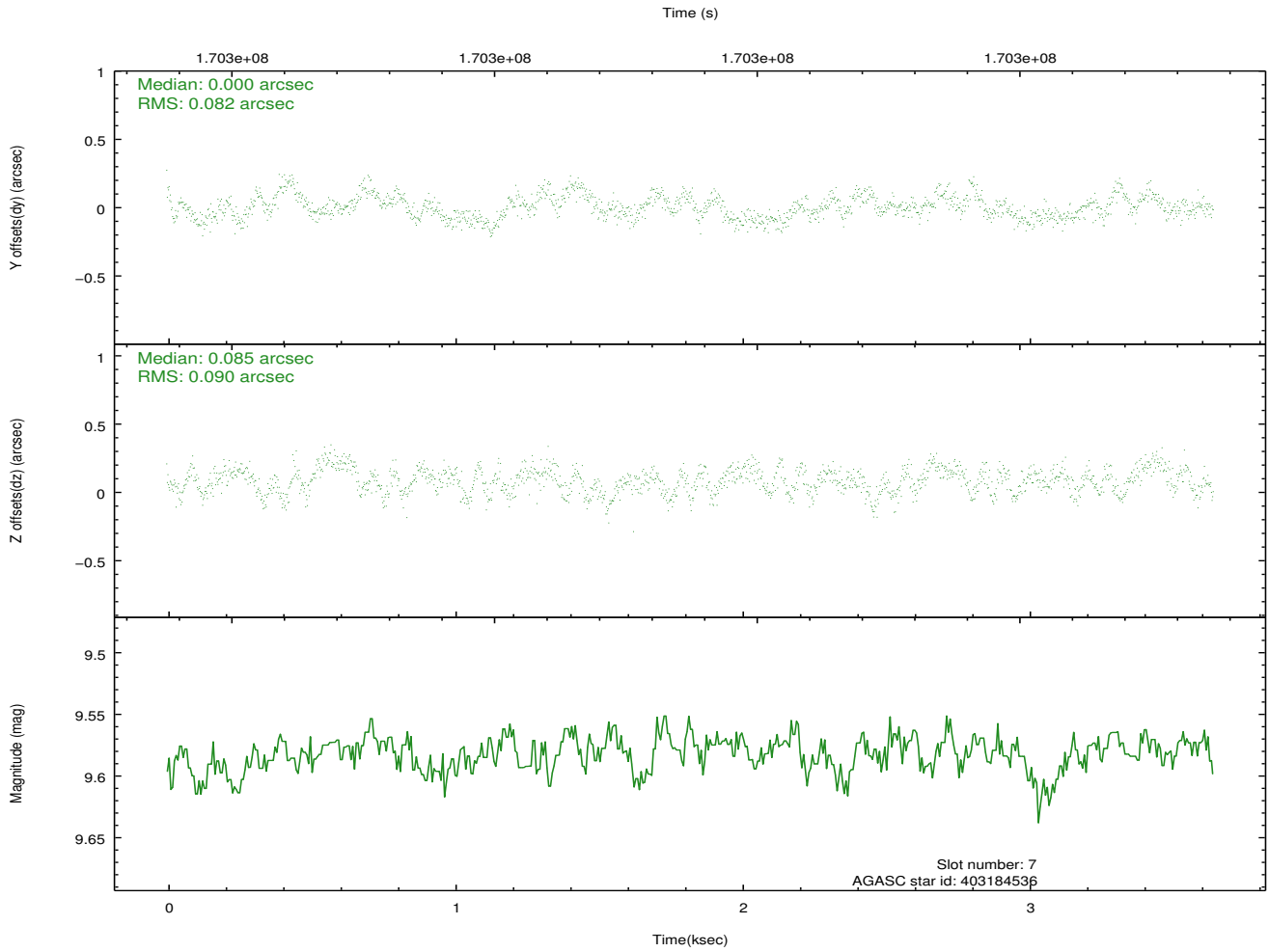
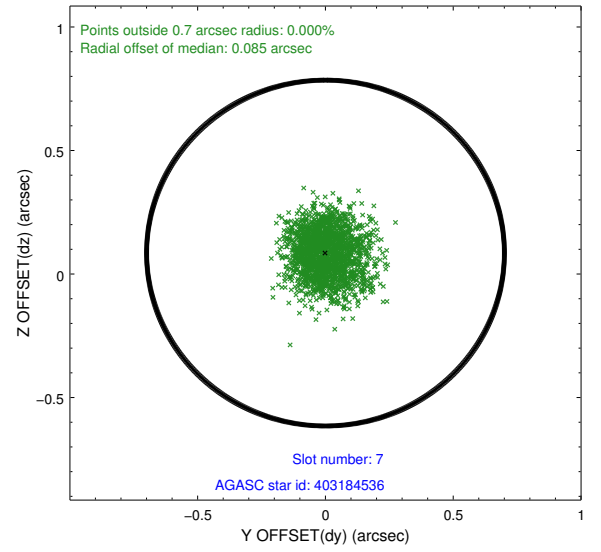
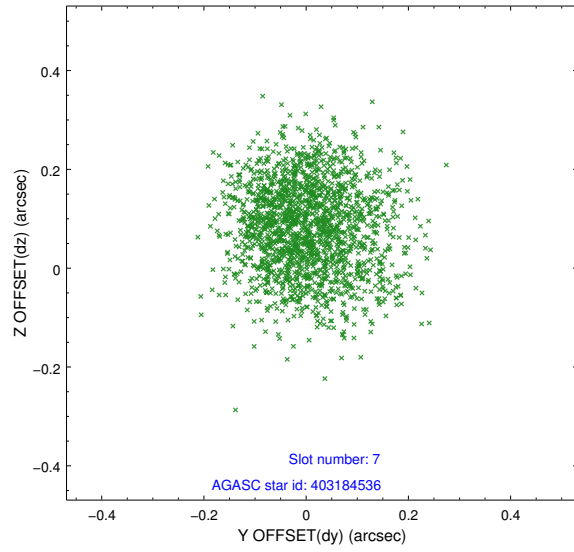
2.4.3 Slot 5



2.4.4 Slot 6

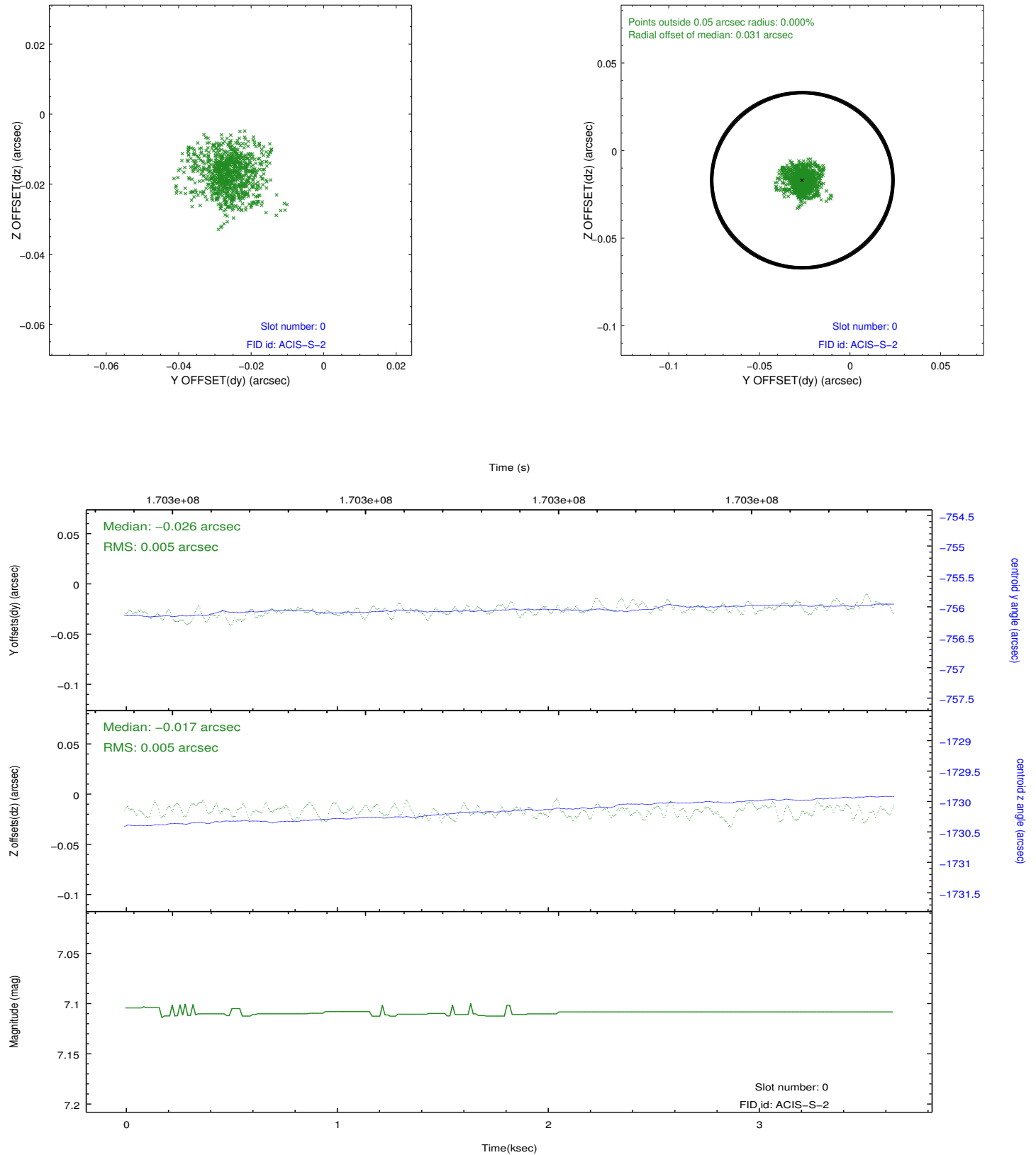


2.4.5 Slot 7

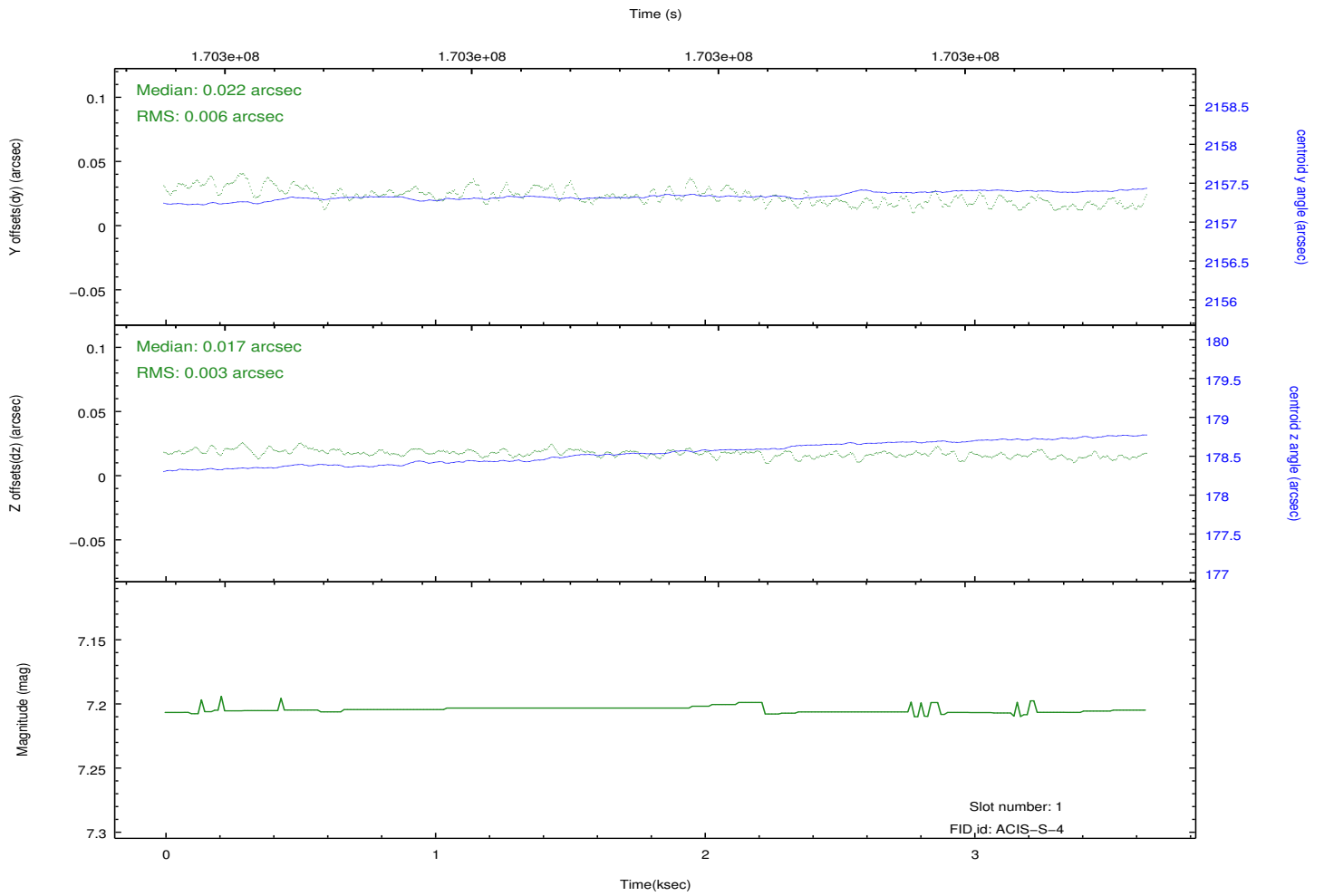
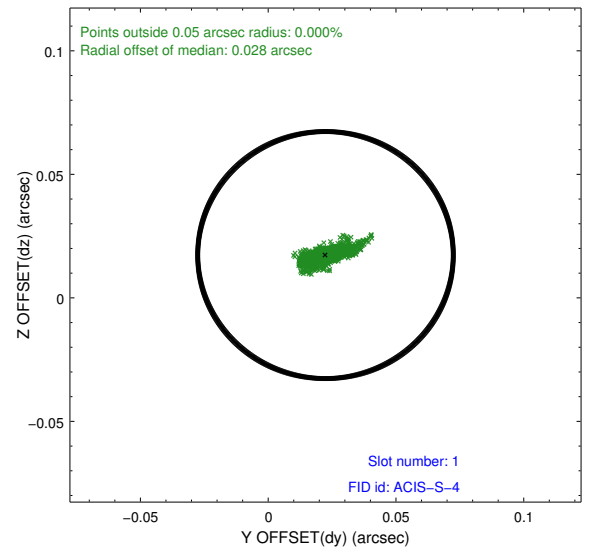
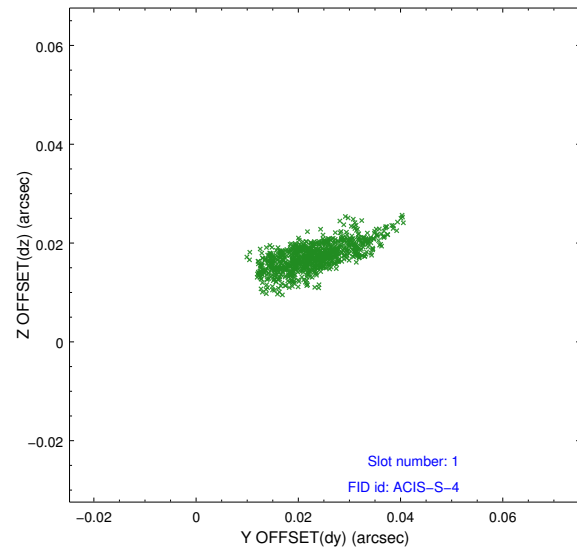


2.5 FID Slots

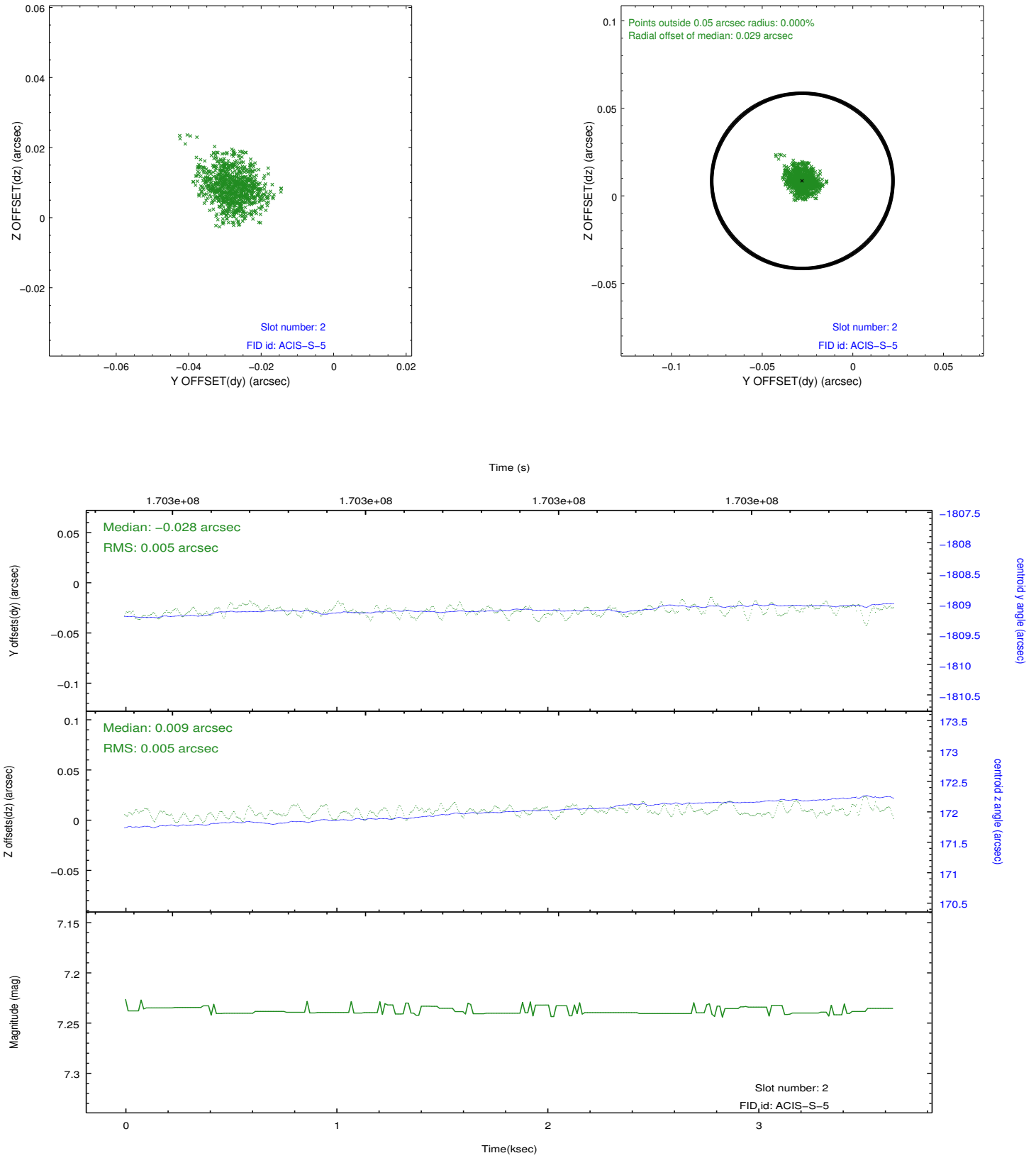
2.5.1 Slot 0



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)	2012.11.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.638

A.2 Comments