

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 14423 - L2 Version 1
Chandra X-Ray Center

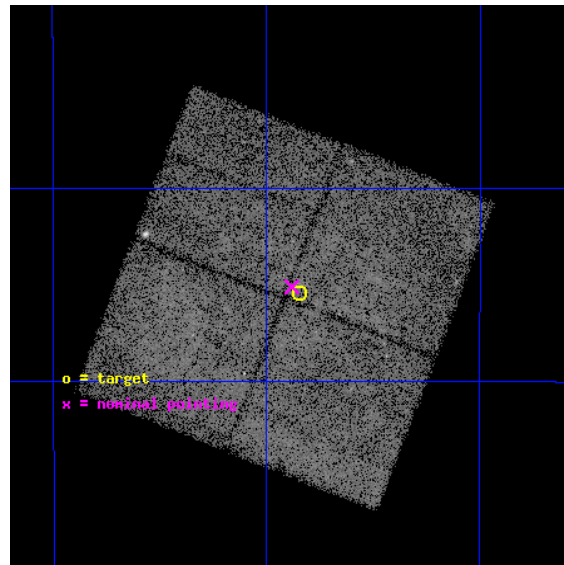
L2 Processing Date : Apr 26 2012

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

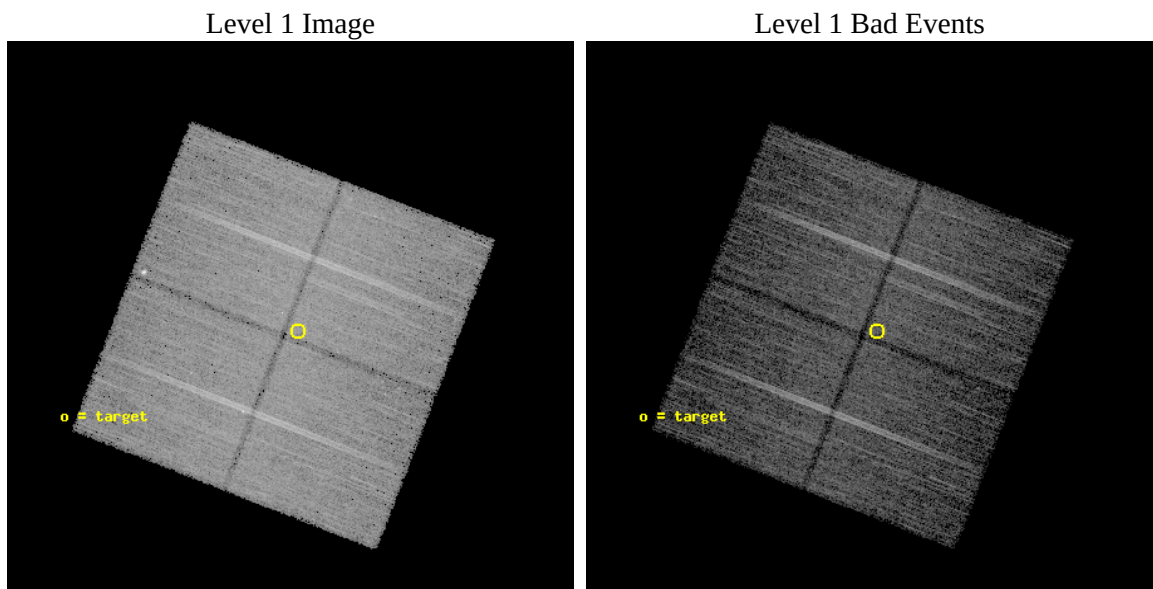
seq_num	501575	Sequence number
obs_id	14423	Observation id
title	SN1006: SHOCK PHYSICS, COSMIC-RAY ACCELERATION, AND SN IA EXPLOSIONS	
observer	Dr. P. Winkler	Principal investigator
object	SN1006 CTR	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	225.712	Observer's specified target RA [deg]
dec_targ	-41.923567	Observer's specified target Dec [deg]
ra_nom	225.72046685763	Nominal RA [deg]
dec_nom	-41.918543743546	Nominal Dec [deg]
roll_nom	21.21433432831	Nominal Roll [deg]
revision	1	Processing version of data
ontime	25351.412746608	Sum of GTIs [s]
livetime	25020.177875635	Livetime [s]
ontime0	25357.571686983	Sum of GTIs [s]
ontime1	25354.471706629	Sum of GTIs [s]
ontime2	25357.65376699	Sum of GTIs [s]
ontime3	25351.412746608	Sum of GTIs [s]
l2events	111037	Number of level 2 events



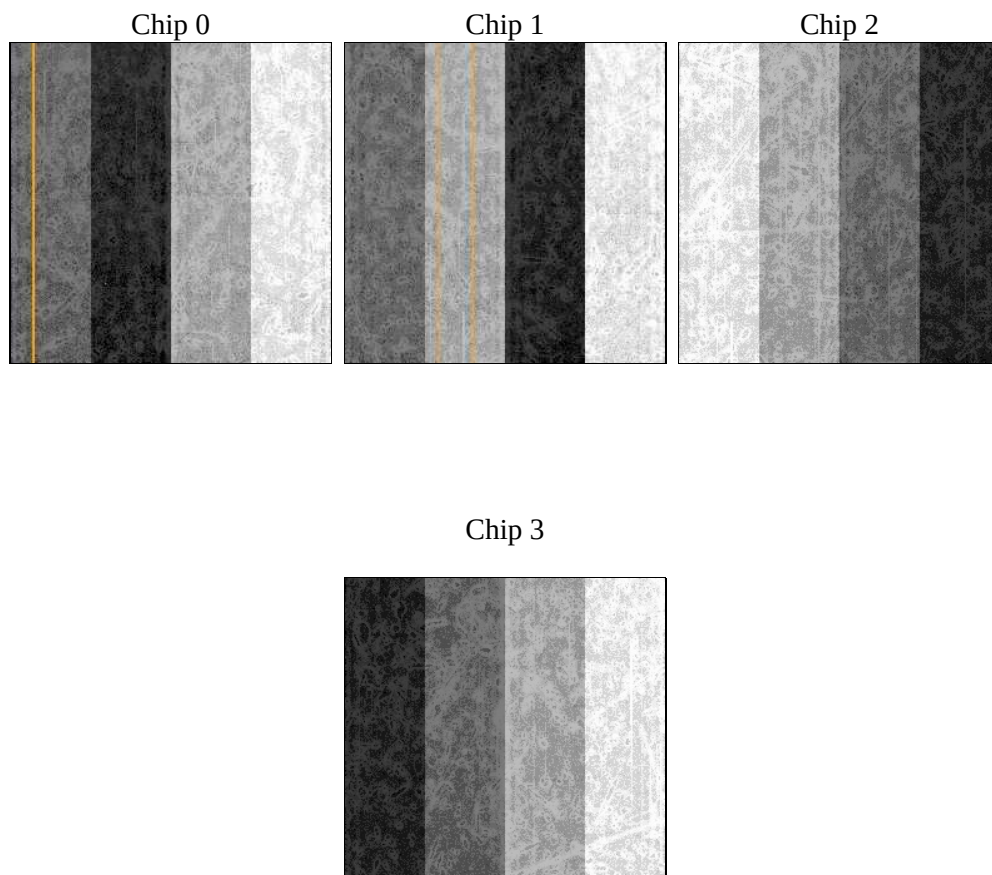
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25271.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	25351.412746608	Sum of GTIs [s]
caldbver	4.4.9	 	ontime0	25357.571686983	Sum of GTIs [s]
date	2012-04-26T03:30:29	Date and time of file creation	ontime1	25354.471706629	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	25357.653766699	Sum of GTIs [s]
			ontime3	25351.412746608	Sum of GTIs [s]
			l1events	609875	Number of level 1 events

2.1.4 Events

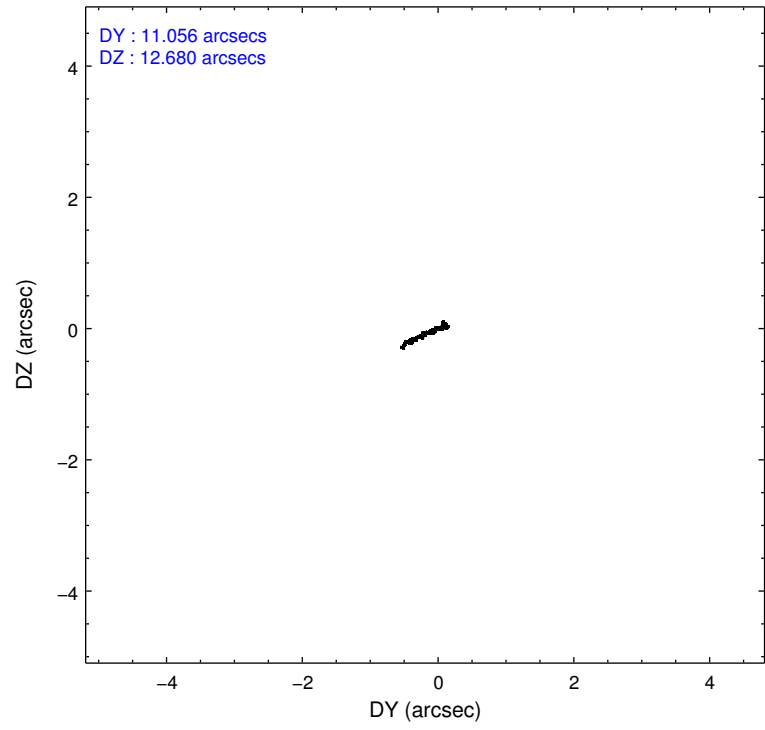
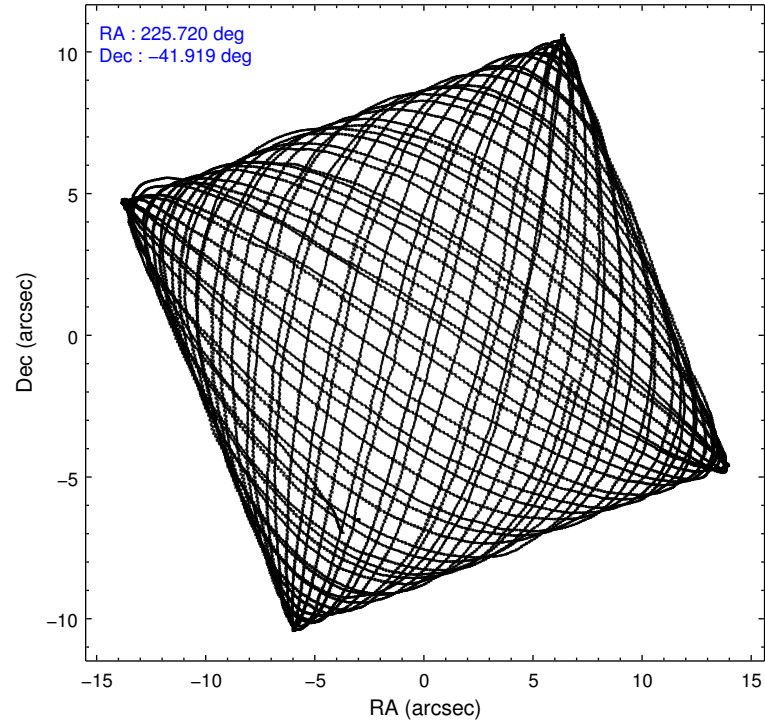
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	148816	148452	158156	154451
rejected events	114779	113670	129396	126650
rejected %	77%	76%	81%	82%

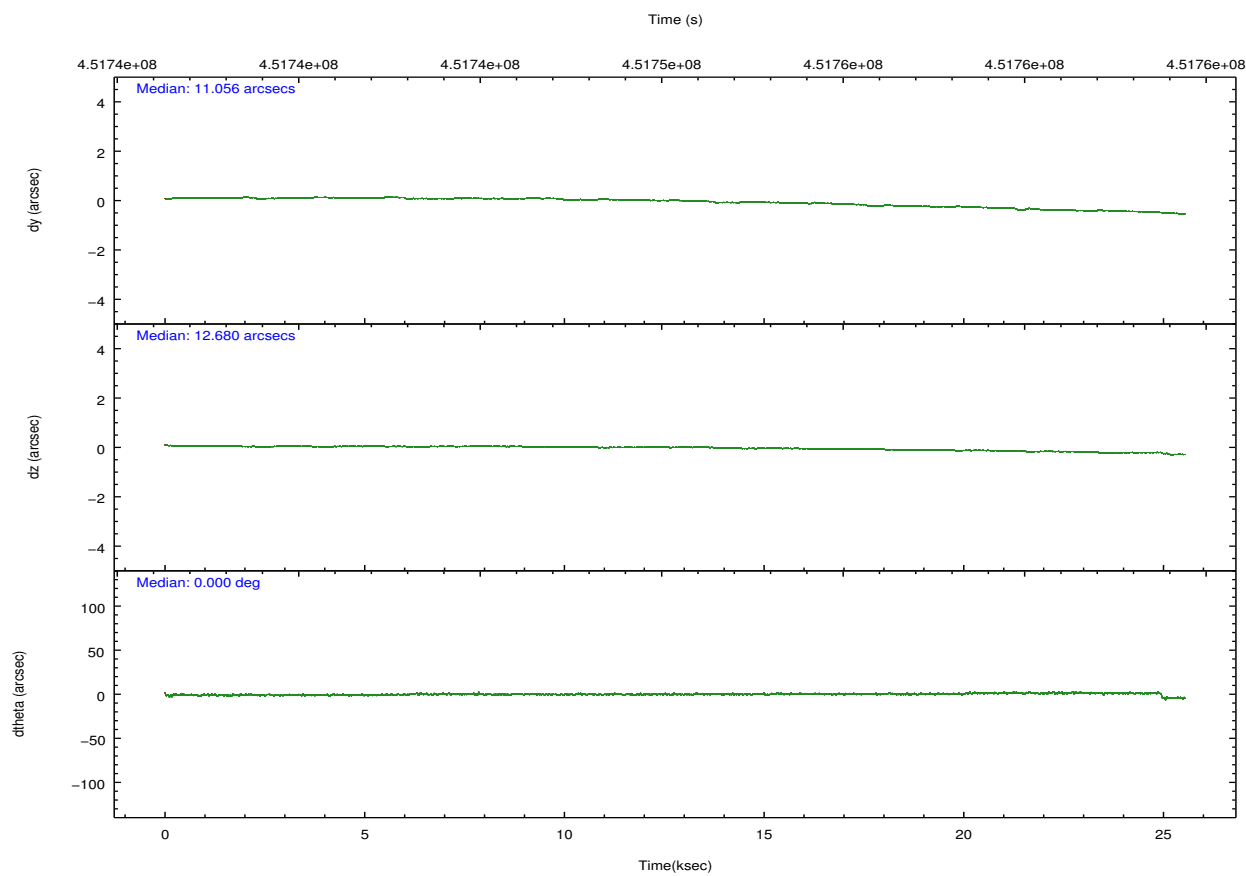
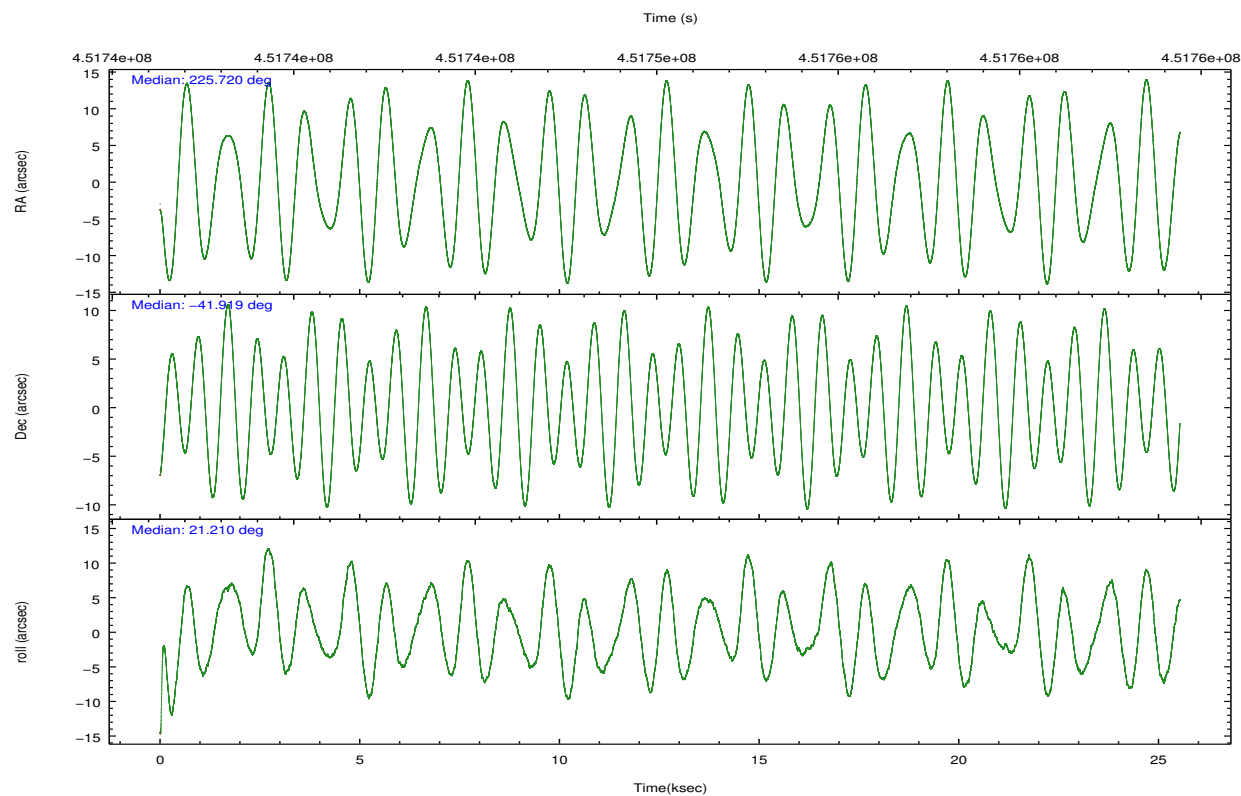
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	21223	20793	16927	16200
	14%	14%	10%	10%
grade 1 events	139	124	129	125
	0%	0%	0%	0%
grade 2 events	5254	5615	4718	4443
	3%	3%	2%	2%
grade 3 events	2073	2163	1859	1866
	1%	1%	1%	1%
grade 4 events	1889	2124	1945	1881
	1%	1%	1%	1%
grade 5 events	6612	6937	6210	7314
	4%	4%	3%	4%
grade 6 events	3602	4094	3322	3417
	2%	2%	2%	2%
grade 7 events	108024	106602	123046	119205
	72%	71%	77%	77%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	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	225.697453	225.7204668576325	Subarray requested	NONE	NONE
[deg] Pointing Dec	-41.940029	-41.91854374354605	Alternating exposures requested	N	N
[deg] Pointing Roll	20.990276	21.21433432831002	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	451737865.184000	451736950.51154			
Observation start date	2012-04-25T10:43:19	2012-04-25T10:29:10			
[s] Observation end time (MET)	451763136.184000	451763344.77544			
Observation end date	2012-04-25T17:44:30	2012-04-25T17:49:04			
Read mode	TIMED	TIMED			

2.3 Aspect



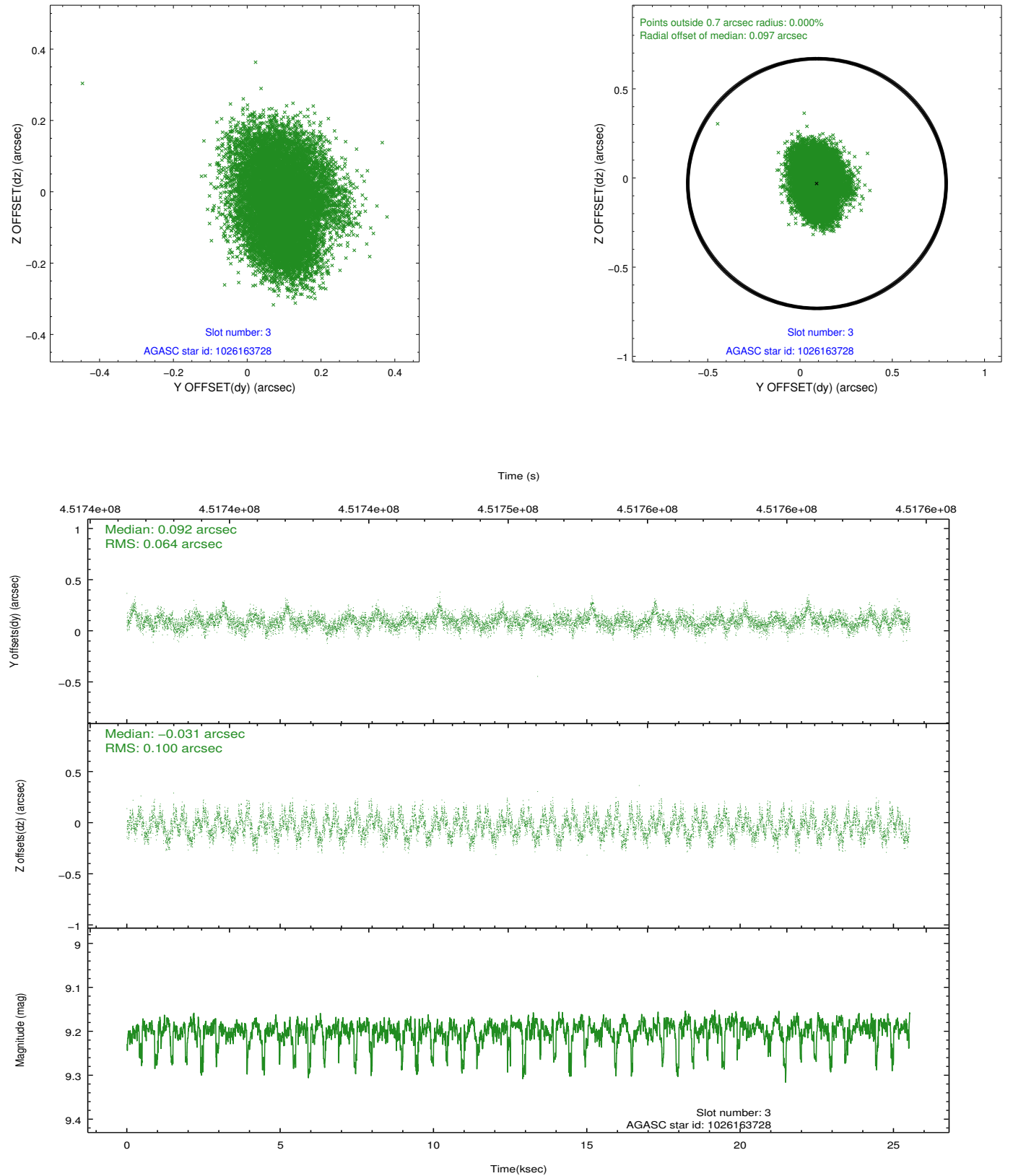


Slot Statistics

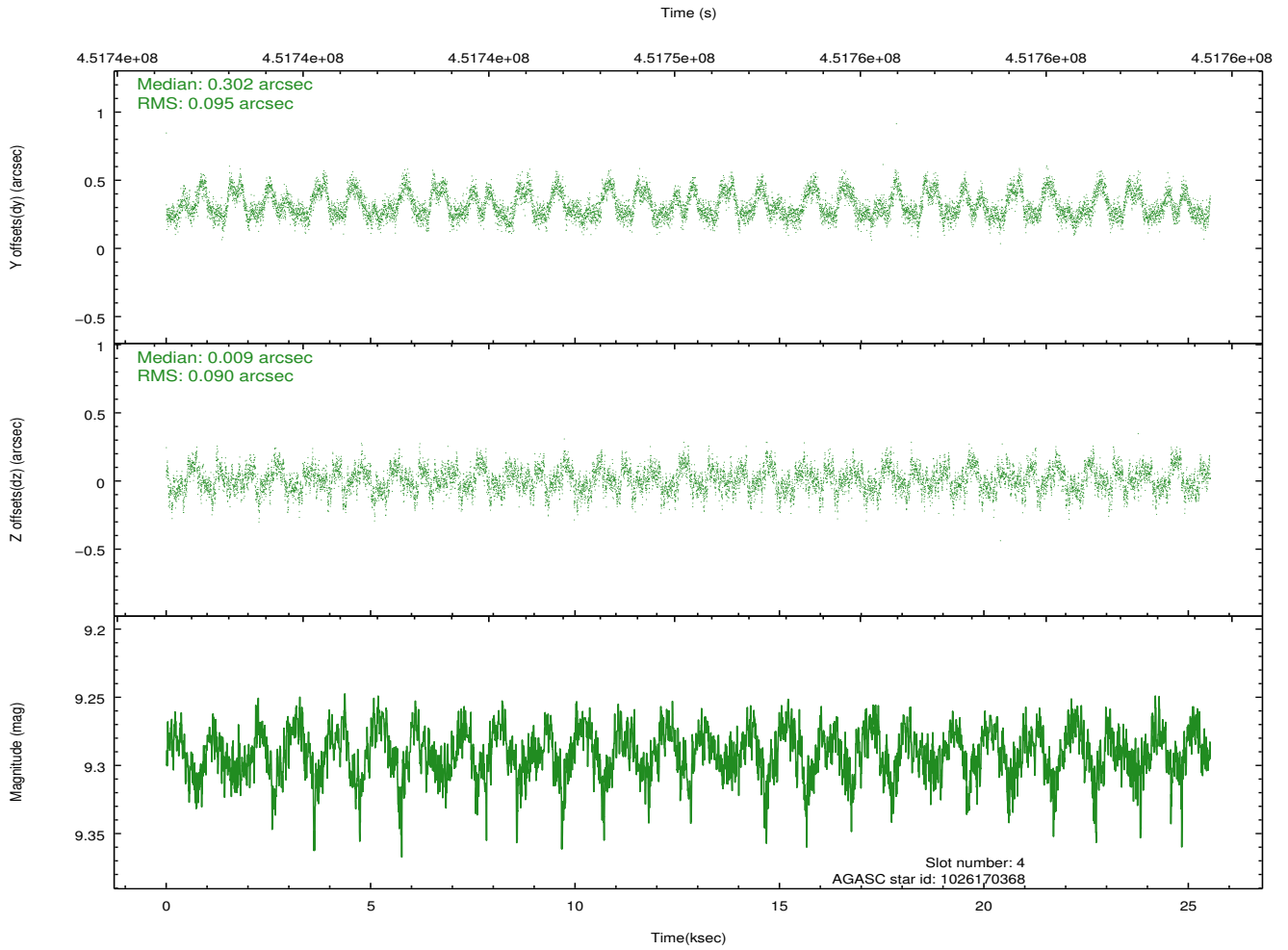
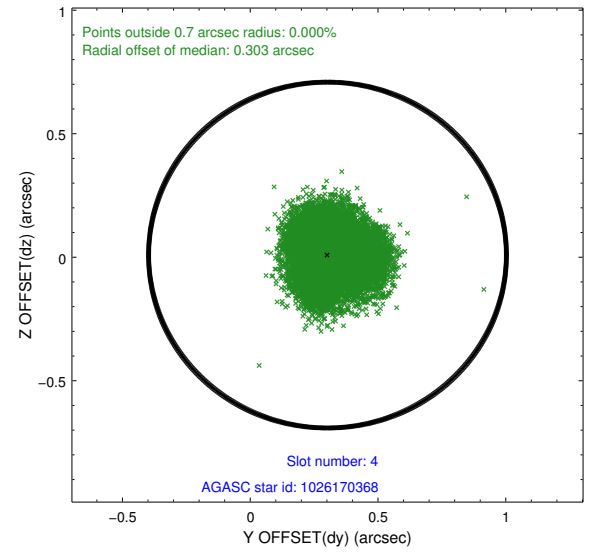
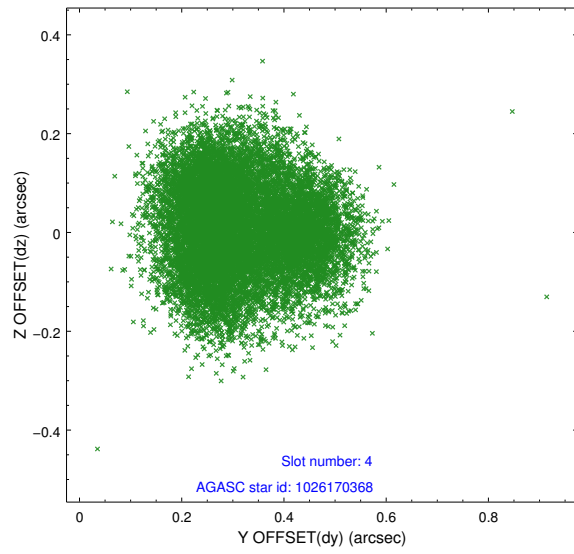
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-4	7.04	6227	0.189	0.025	0.008	0.015	0.000000	0.000000	2148.78	1063.65
1	FID	ACIS-I-5	7.08	6228	-0.263	0.028	0.006	0.011	0.000000	0.000000	-1819.48	1061.65
2	FID	ACIS-I-6	7.09	6227	-0.025	0.014	0.009	0.017	0.000000	0.000000	394.05	1705.89
3	GUIDE	1026163728	9.20	12364	0.092	-0.031	0.130	0.200	225.377558	-41.568164	-325.44	1556.84
4	GUIDE	1026170368	9.29	12444	0.302	0.009	0.144	0.215	225.763429	-42.291155	-288.02	-1242.94
5	GUIDE	1026170800	9.01	12434	0.149	0.206	0.101	0.163	225.400024	-42.381702	-1308.13	-1202.43
6	GUIDE	1026183784	9.18	12446	-0.293	0.131	0.097	0.163	226.363370	-41.841537	1791.97	-314.89
7	GUIDE	1026186752	8.81	12436	-0.270	-0.304	0.087	0.136	226.277713	-41.376336	2188.71	1328.22

2.4 Star Slots

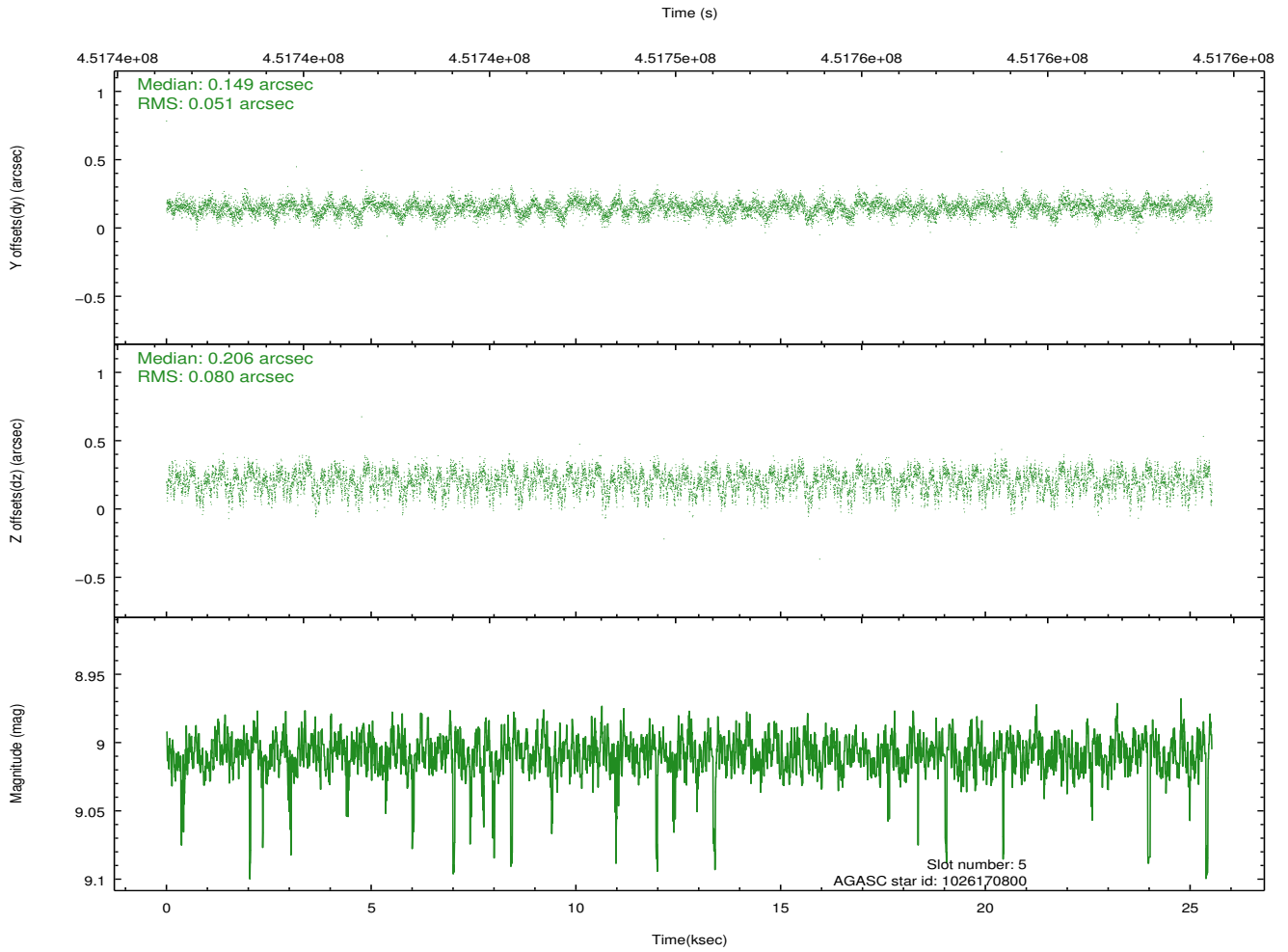
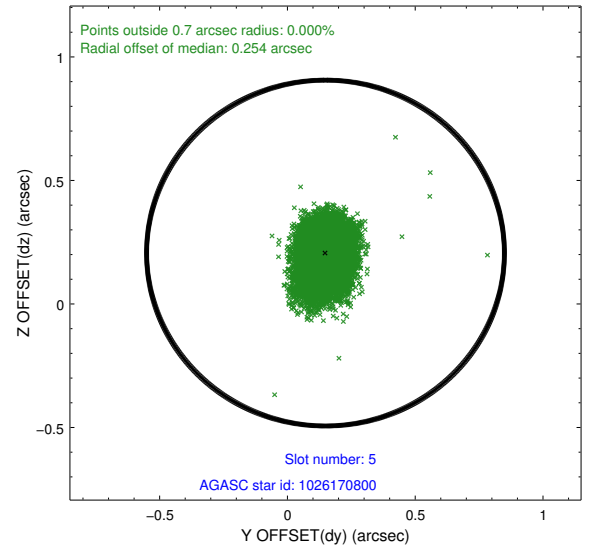
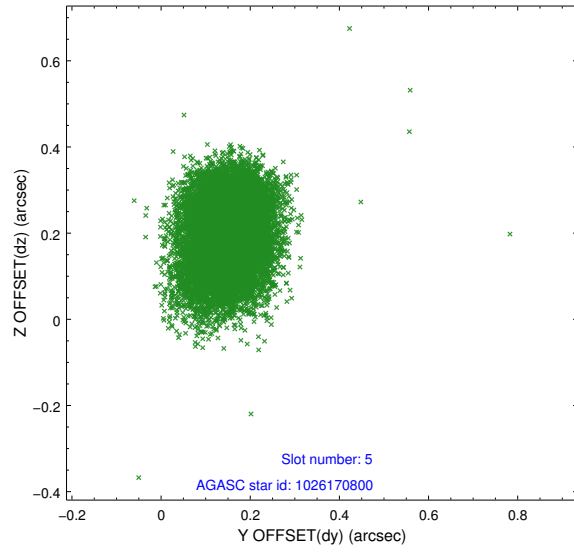
2.4.1 Slot 3



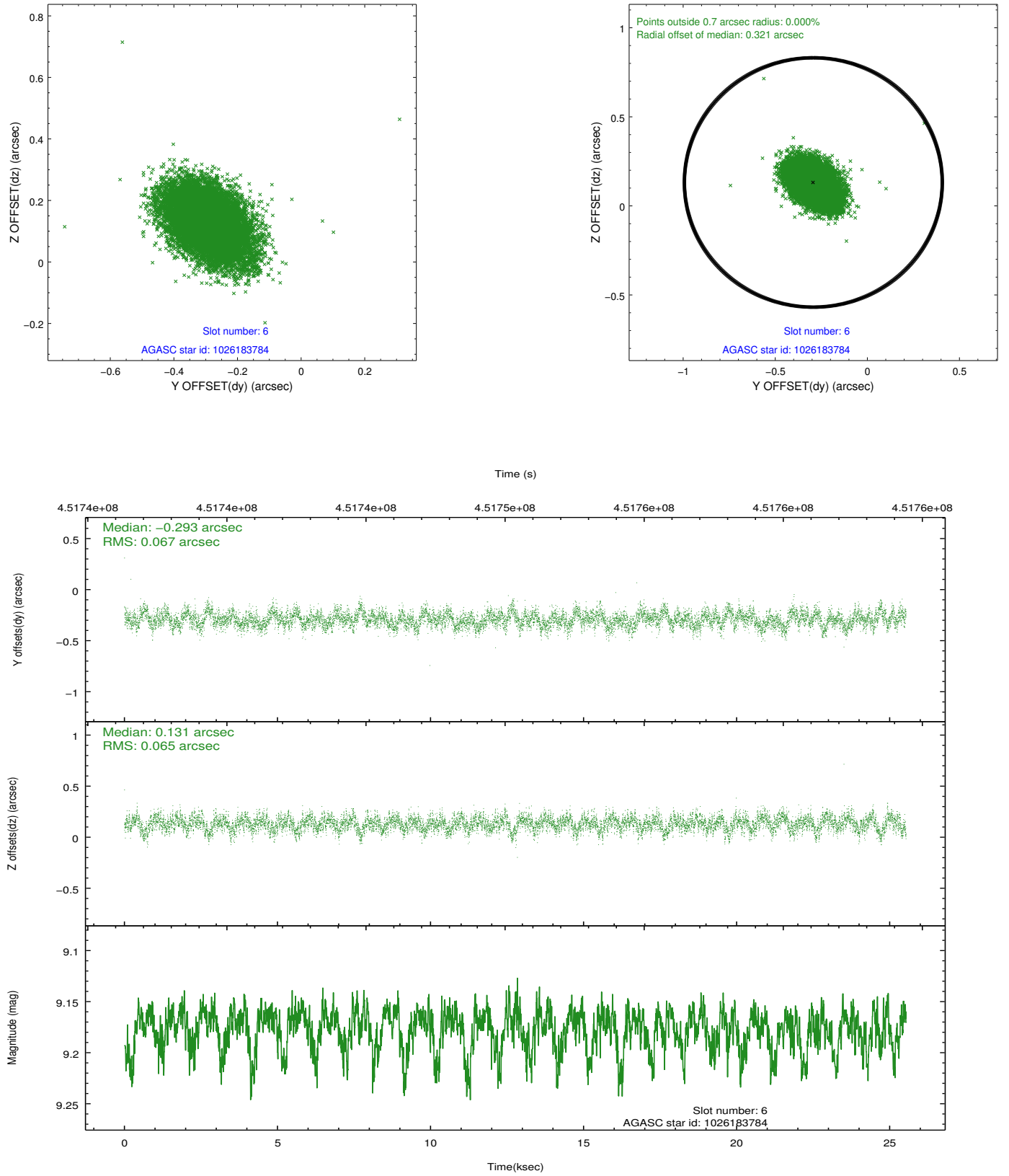
2.4.2 Slot 4



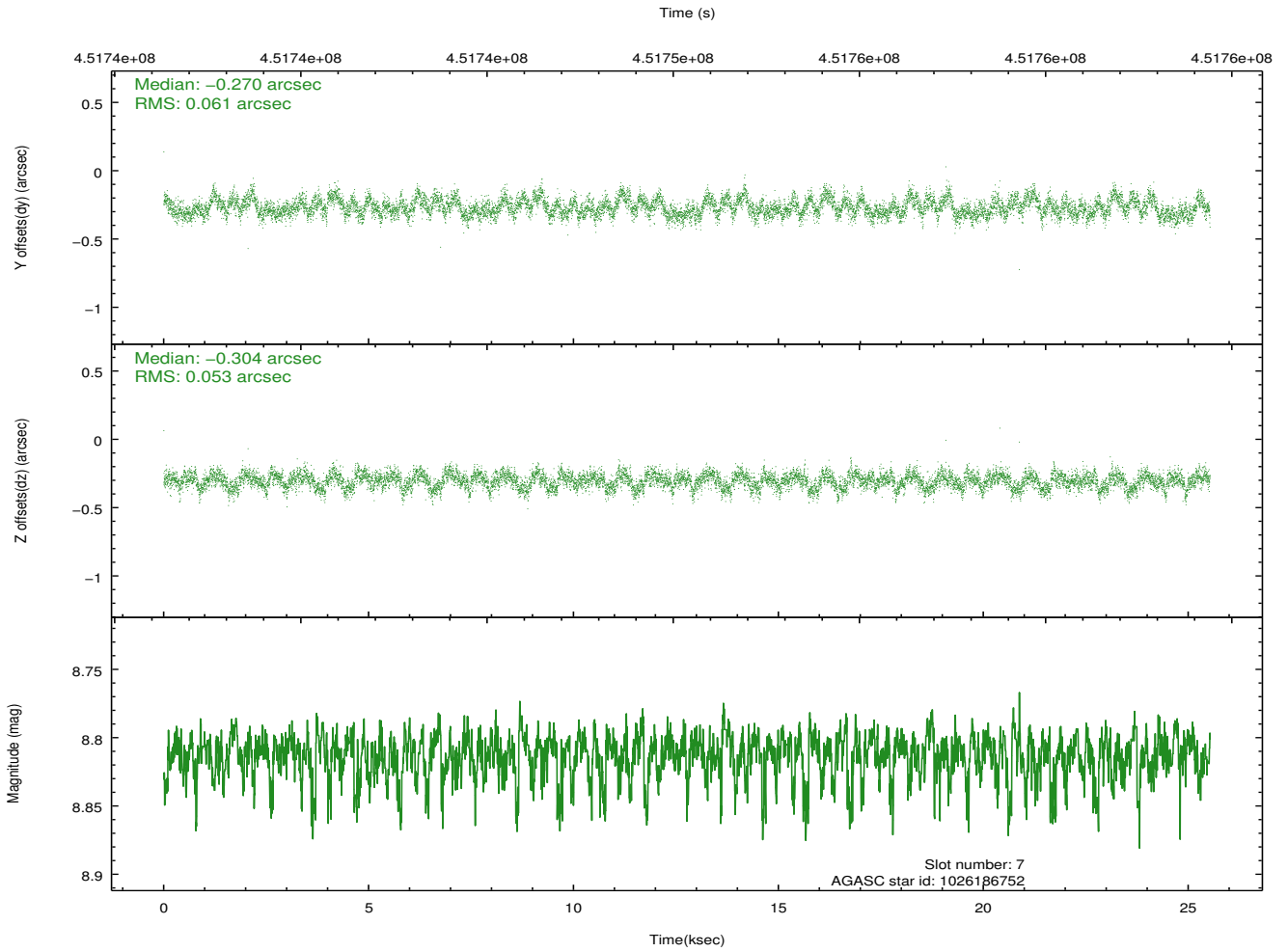
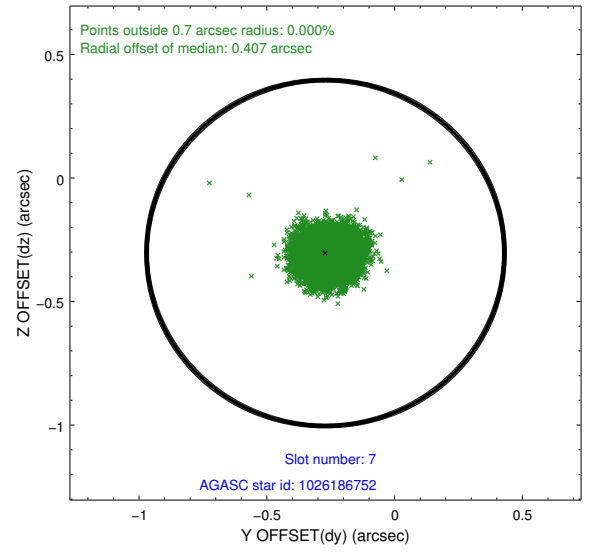
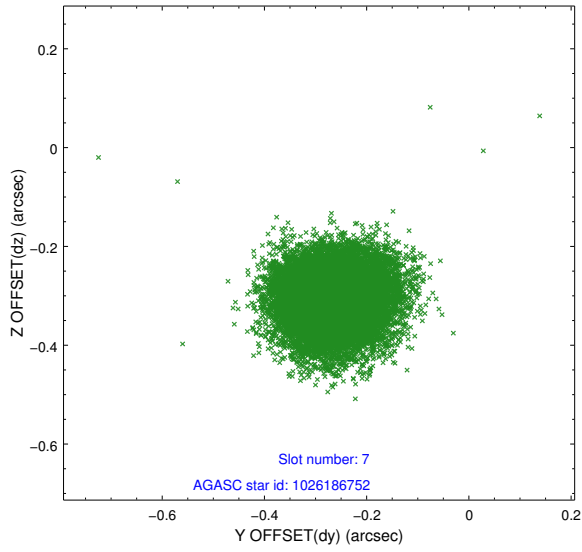
2.4.3 Slot 5



2.4.4 Slot 6

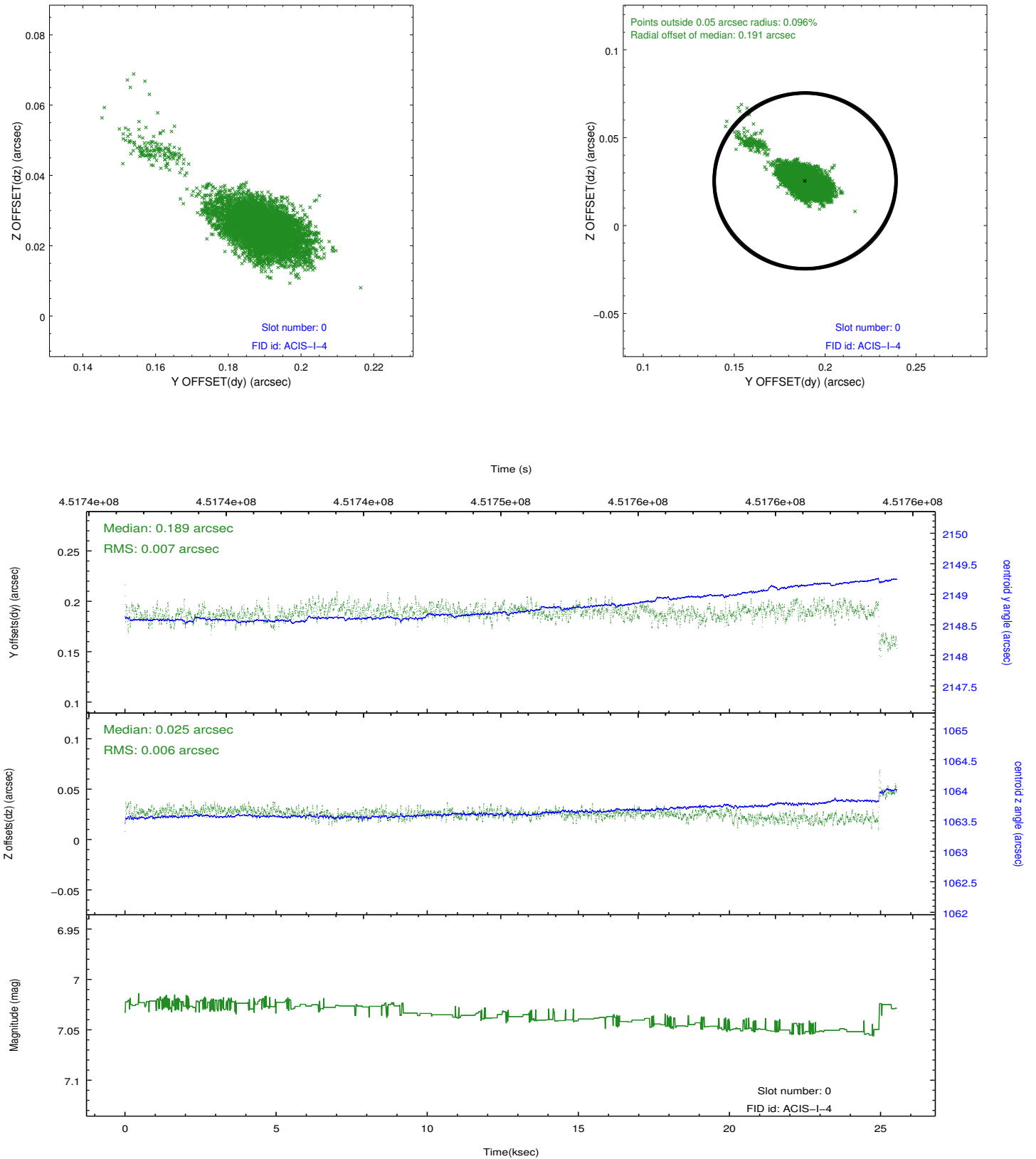


2.4.5 Slot 7

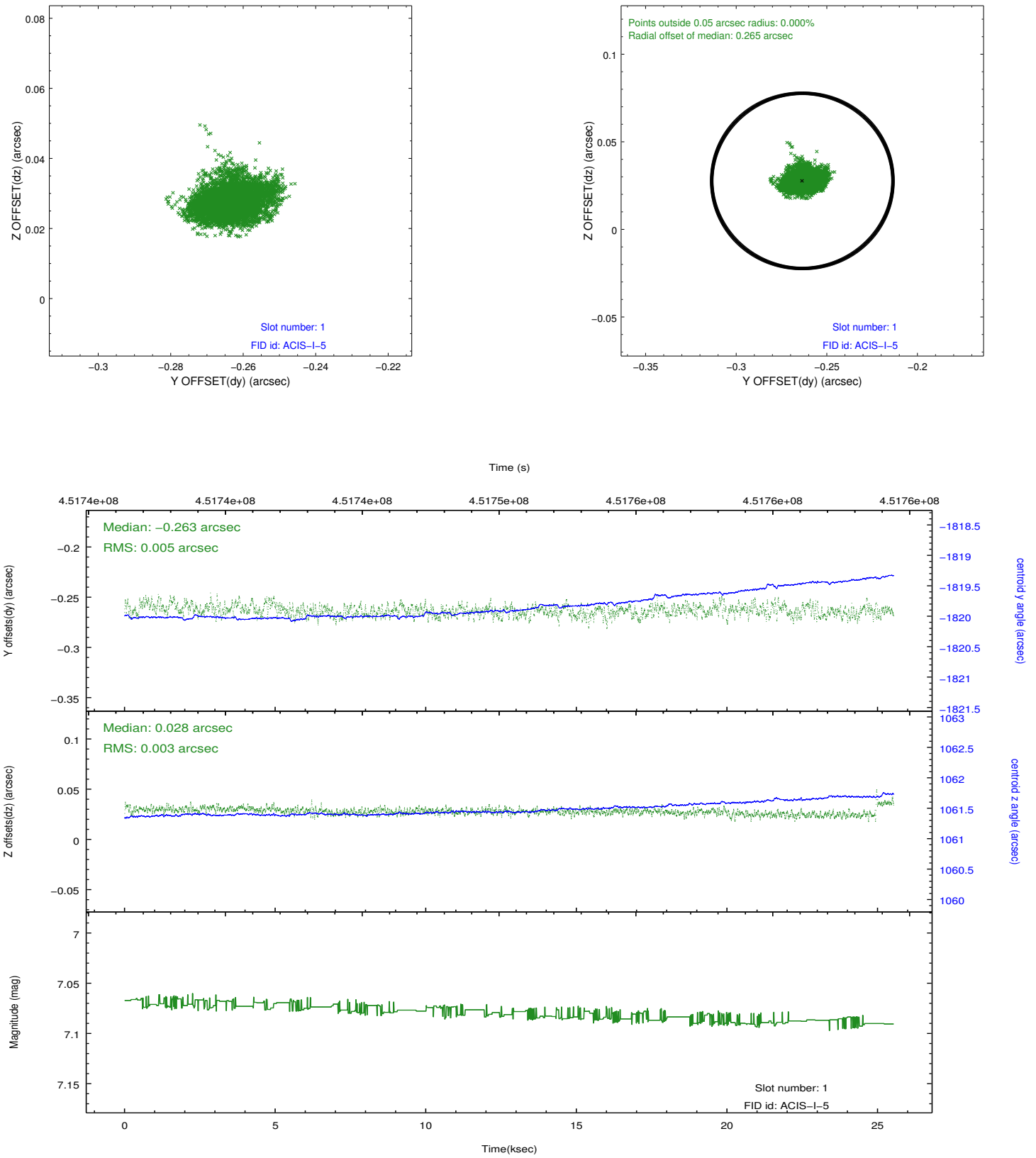


2.5 FID Slots

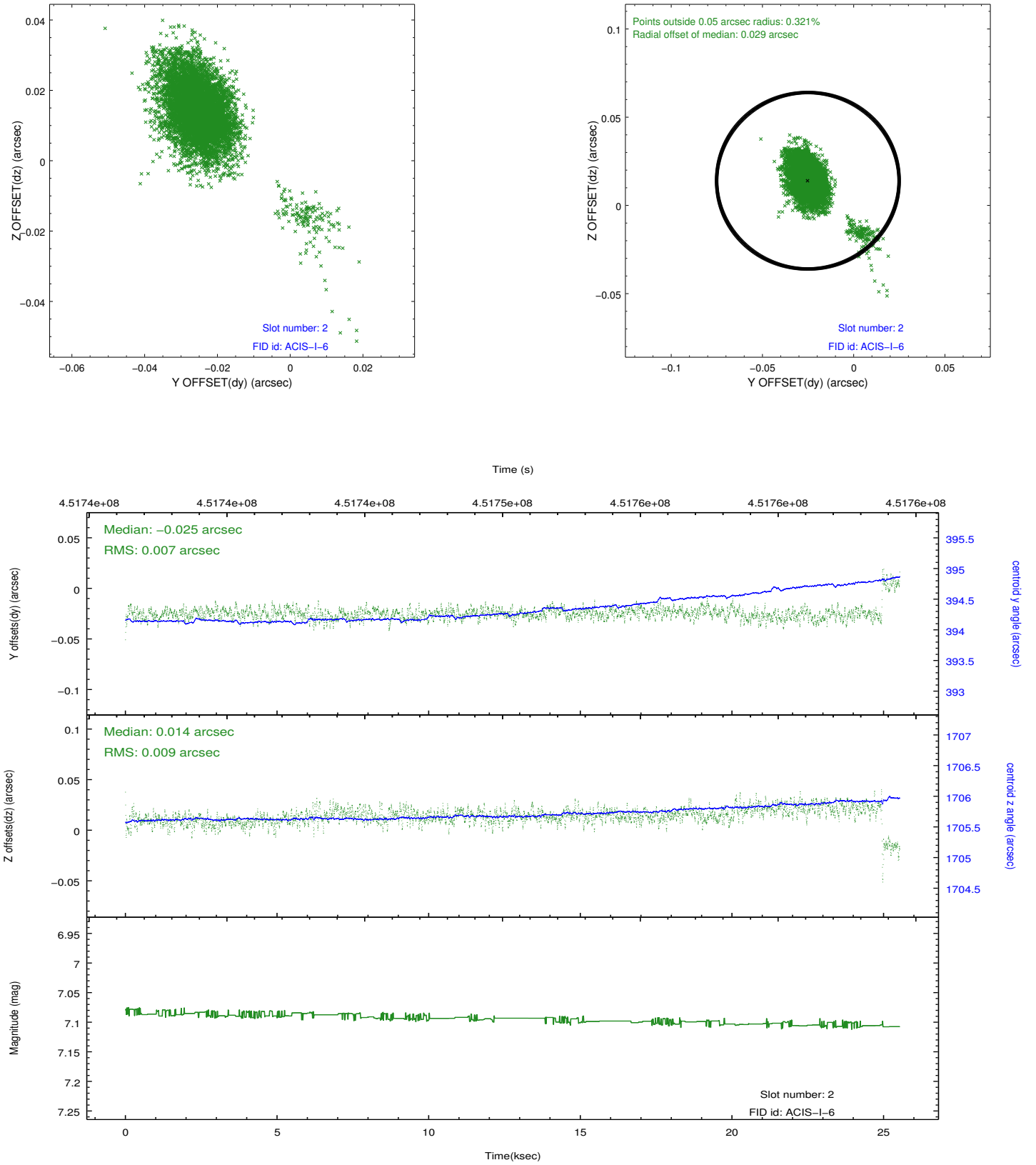
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.04.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.351412746608

A.2 Comments