

V&V Reference Report

L2 ASCDS Version : 8.1.2

Observation 1055 - L2 Version 3

Chandra X-Ray Center

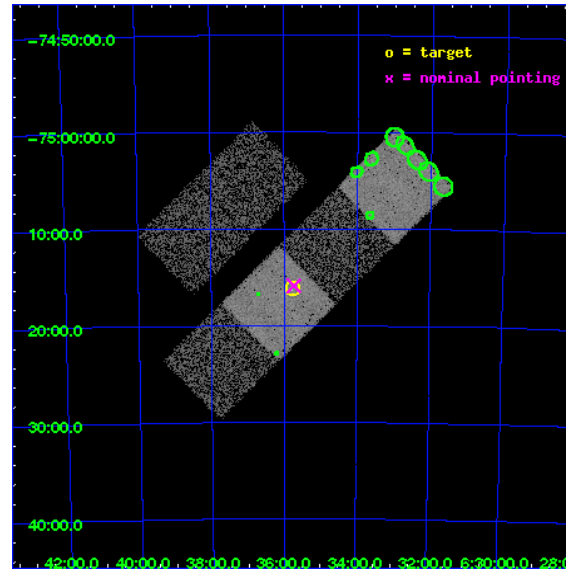
L2 Processing Date : Dec 14 2009

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1 Front

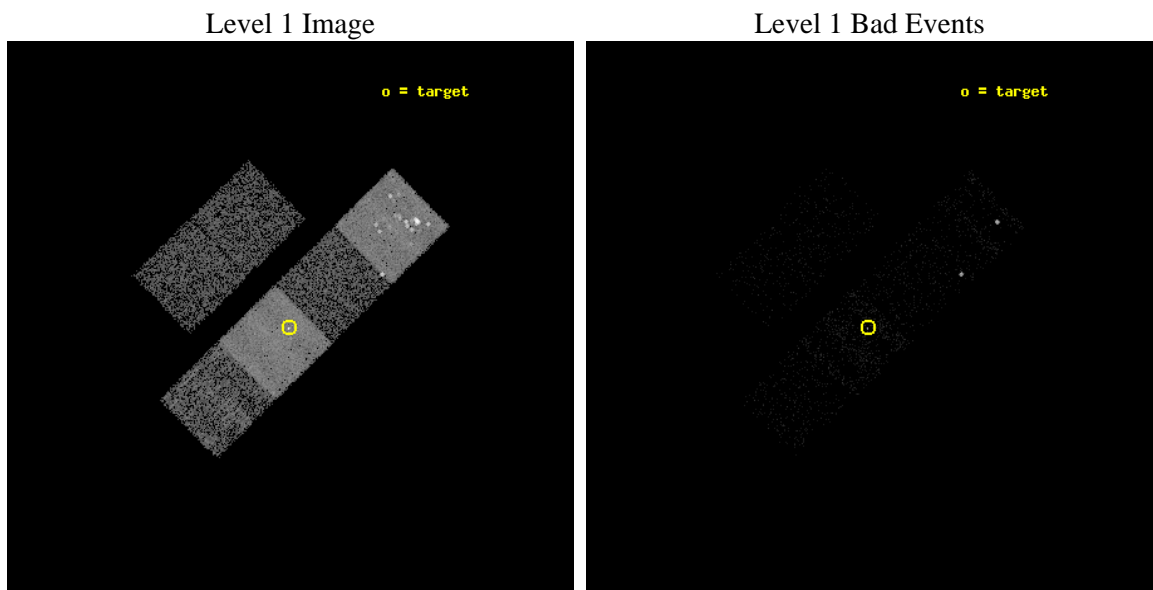
seq_num	780005	Sequence number
obs_id	1055	Observation id
title	 	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	PKS0637-752	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	98.94	Observer's specified target RA
dec_targ	-75.27	Observer's specified target Dec
ra_nom	98.932208667851	Nominal RA
dec_nom	-75.264856837965	Nominal Dec
roll_nom	135.39936666373	Nominal Roll
revision	3	Processing version of data
ontime	2034.9459451139	Sum of GTIs [s]
livetime	2009.1782342595	Livetime [s]
ontime2	2034.8638651147	Sum of GTIs [s]
ontime3	2034.8228251114	Sum of GTIs [s]
ontime5	2034.9049051106	Sum of GTIs [s]
ontime6	2034.7407451123	Sum of GTIs [s]
ontime7	2034.9459451139	Sum of GTIs [s]
ontime8	2034.7817851156	Sum of GTIs [s]
l2events	53708	Number of level 2 events



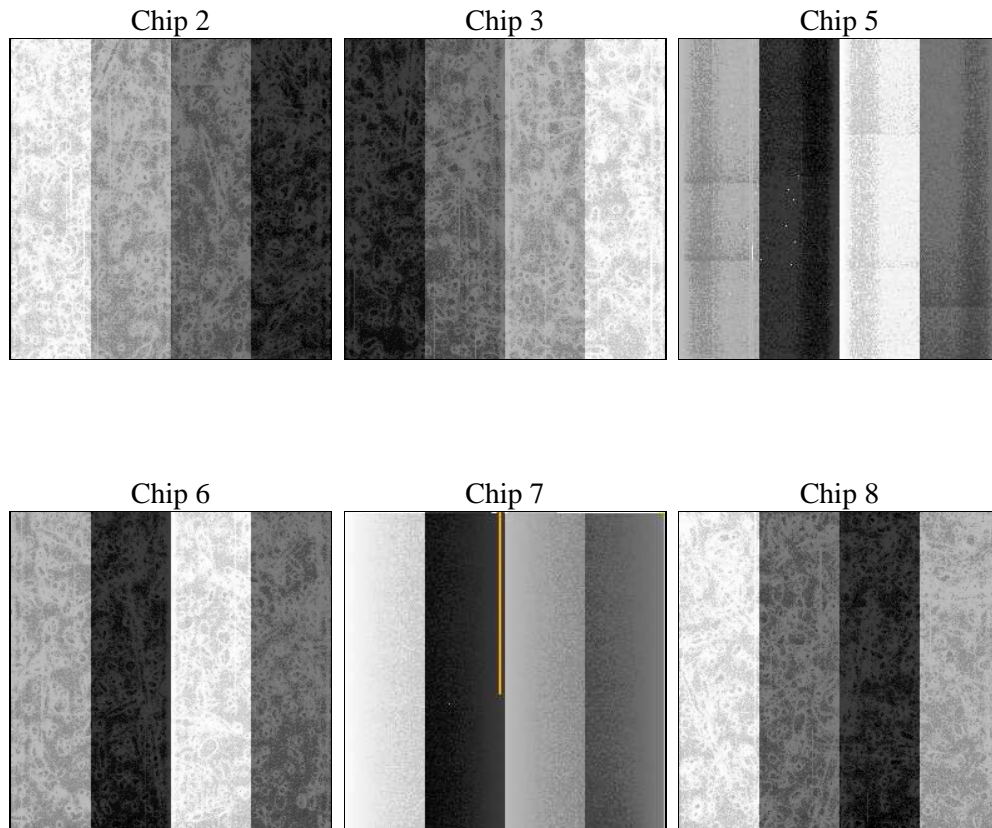
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	Scheduled observation exposure time
ascdsver	8.1.2	ASCDS version number	ontime	2034.9459451139	Sum of GTIs [s]
caldsver	4.1.4	 	ontime2	2034.8638651147	Sum of GTIs [s]
date	2009-12-14T06:29:03	Date and time of file creation	ontime3	2034.8228251114	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	2034.9049051106	Sum of GTIs [s]
			ontime6	2034.7407451123	Sum of GTIs [s]
			ontime7	2034.9459451139	Sum of GTIs [s]
			ontime8	2034.7817851156	Sum of GTIs [s]
			l1events	76989	Number of level 1 events

2.1.4 Events

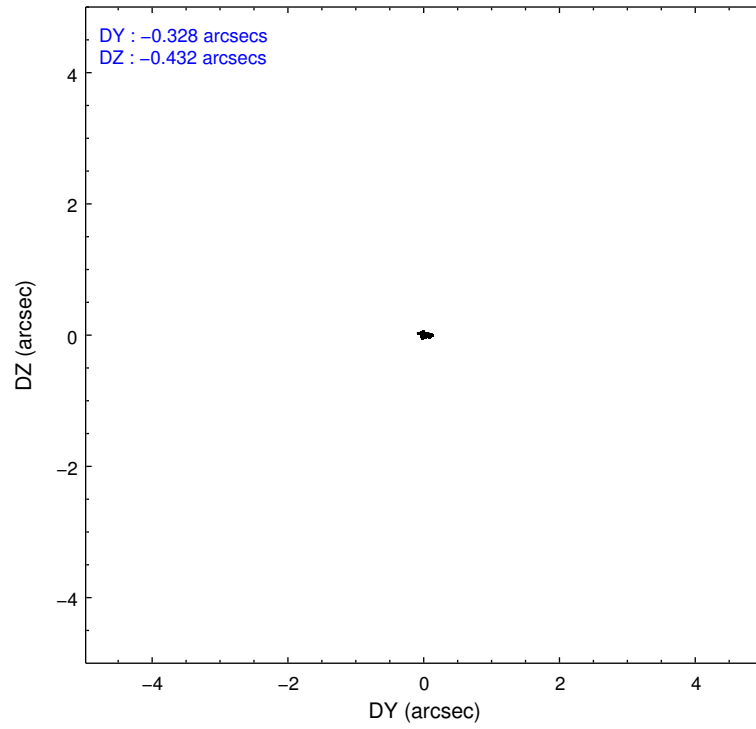
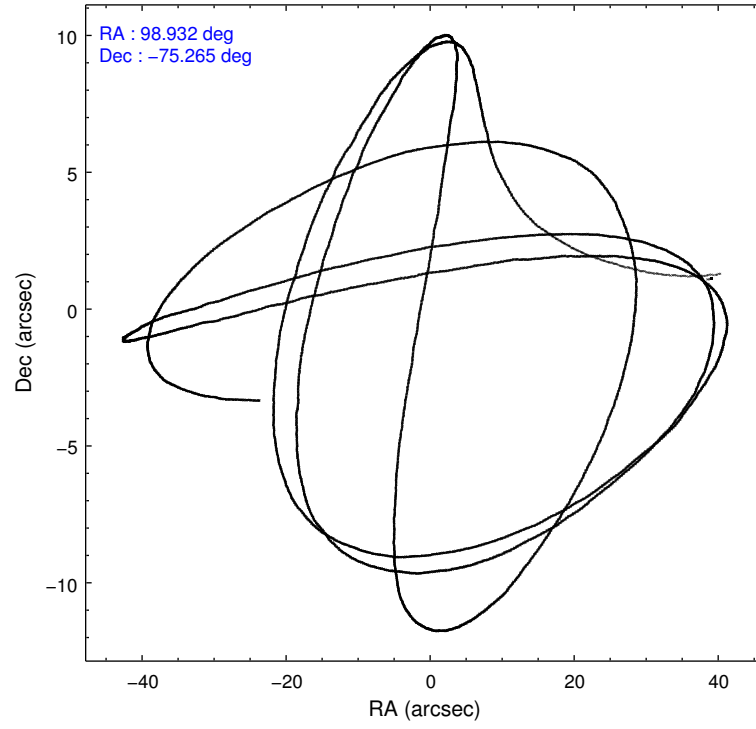
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	4957	5018	30633	5602	23322	7457
rejected events	1339	1427	2723	1633	2872	1734
rejected %	27%	28%	8%	29%	12%	23%

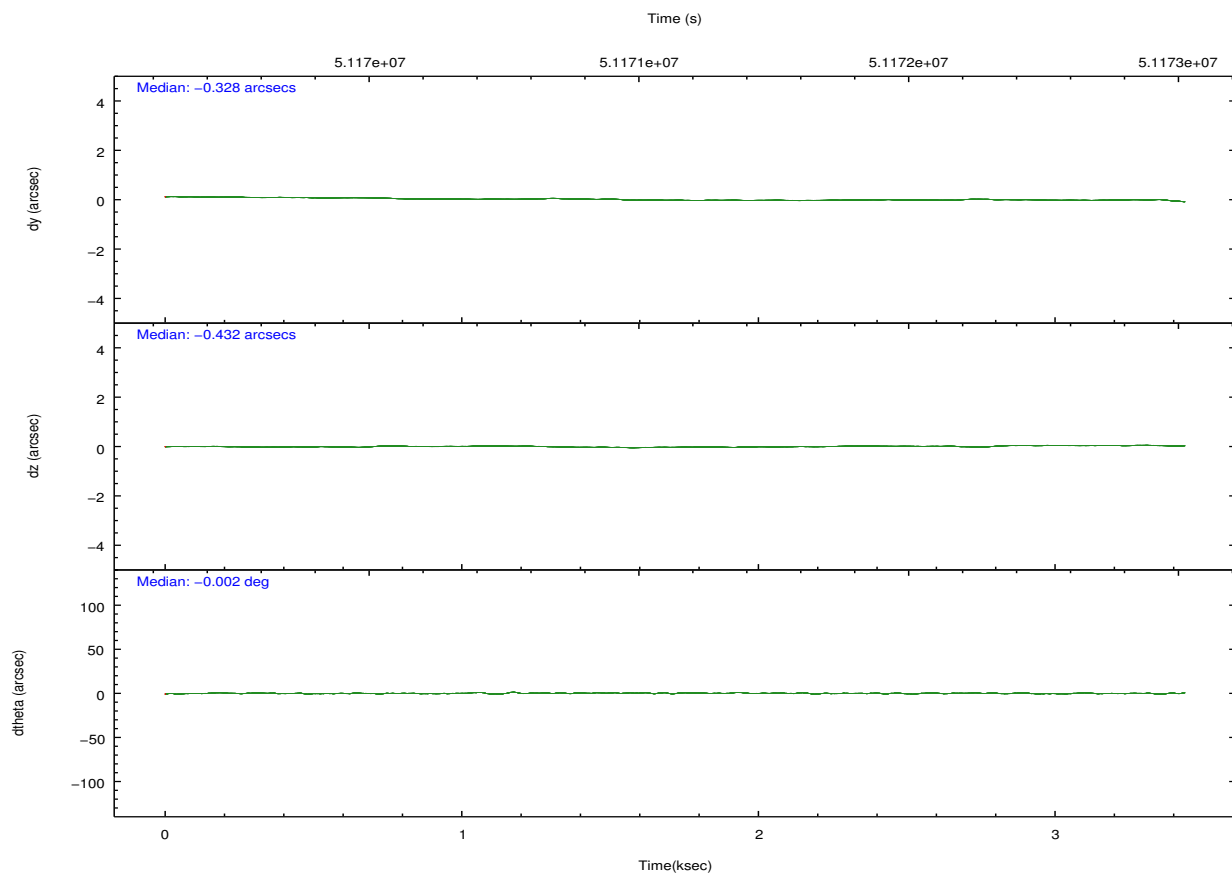
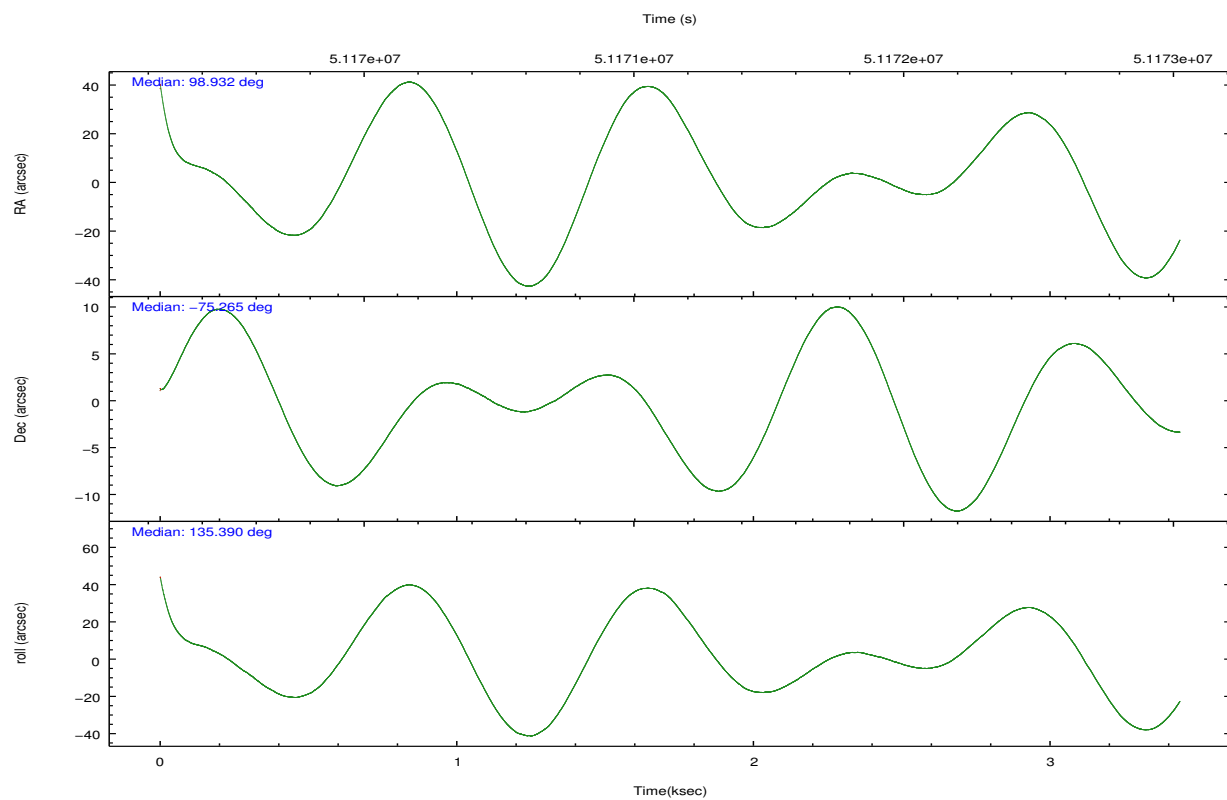
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	943	905	7181	1058	1594	1492
	19%	18%	23%	18%	6%	20%
grade 1 events	9	9	24	8	38	15
	0%	0%	0%	0%	0%	0%
grade 2 events	734	722	4422	763	2723	1360
	14%	14%	14%	13%	11%	18%
grade 3 events	379	362	1464	361	1684	539
	7%	7%	4%	6%	7%	7%
grade 4 events	295	303	1295	362	1391	461
	5%	6%	4%	6%	5%	6%
grade 5 events	1325	1413	1955	1620	2808	1708
	26%	28%	6%	28%	12%	22%
grade 6 events	1272	1304	13585	1430	13084	1882
	25%	25%	44%	25%	56%	25%
grade 7 events	0	0	707	0	0	0
	0%	0%	2%	0%	0%	0%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
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
Pointing RA	99.037387	98.93220866785082	Subarray requested	NONE	NONE
Pointing Dec	-75.272463	-75.26485683796463	Alternating exposures requested	N	N
Pointing Roll	135.344441	135.3993666637272	Primary exposure time	0.000000	3.2
SIM focus pos (mm)	-1.180069	-1.346558362777969			
SIM defocus (mm)	-0.495802	-0.6622909014780725			
SIM translation stage pos (mm)	-190.132523	-190.1325231039672			
SIM translation stage offset (mm)	0	5.209593894051068e-07			
Observation start time	51169864.184000	51168292.767304			
Observation start date	1999-08-16T05:50:00	1999-08-16T05:24:52			
Observation end time	51172864.184000	51172981.62997			
Observation end date	1999-08-16T06:40:00	1999-08-16T06:43:01			
Read mode	TIMED	TIMED			

2.3 Aspect



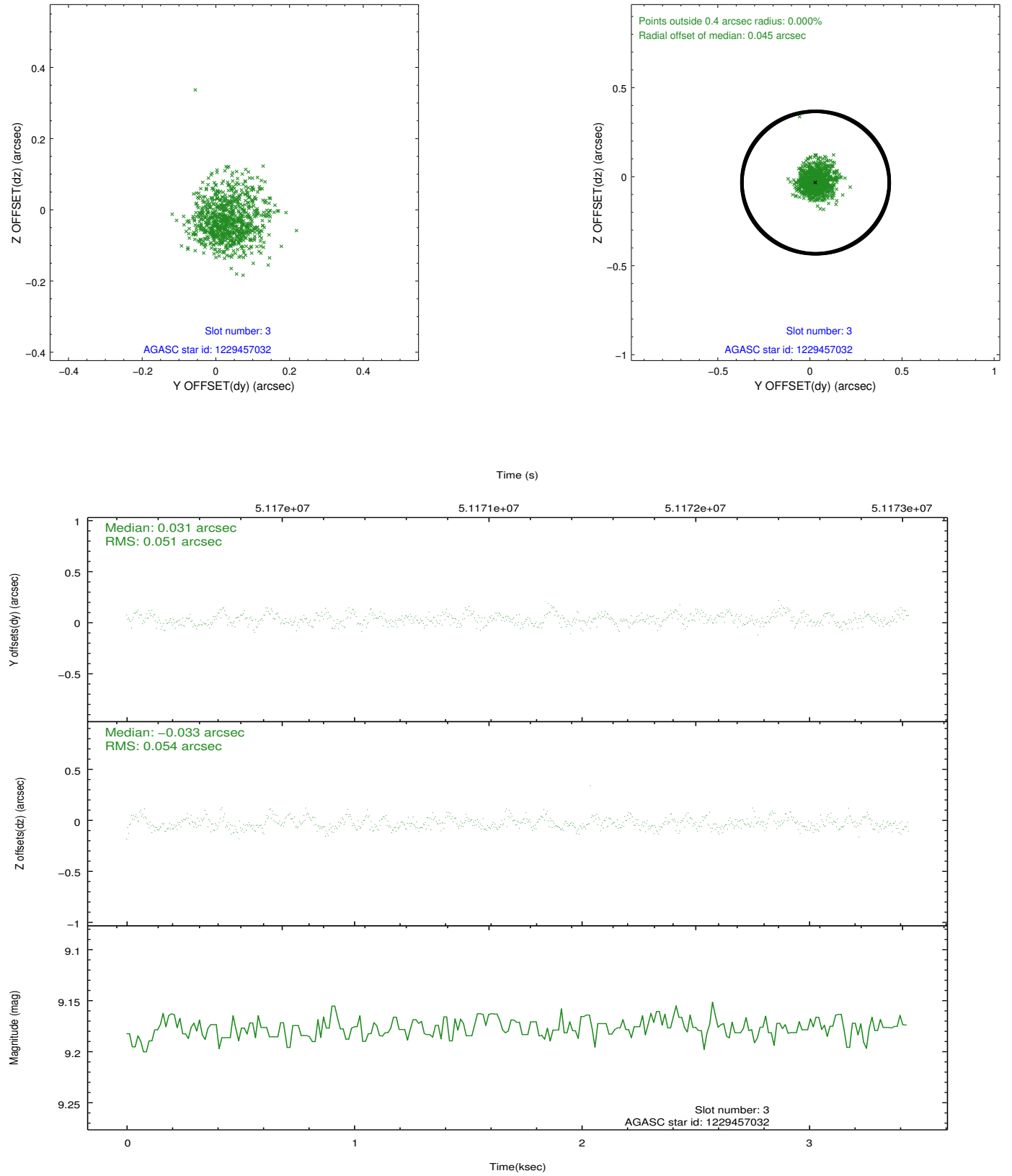


Slot Statistics

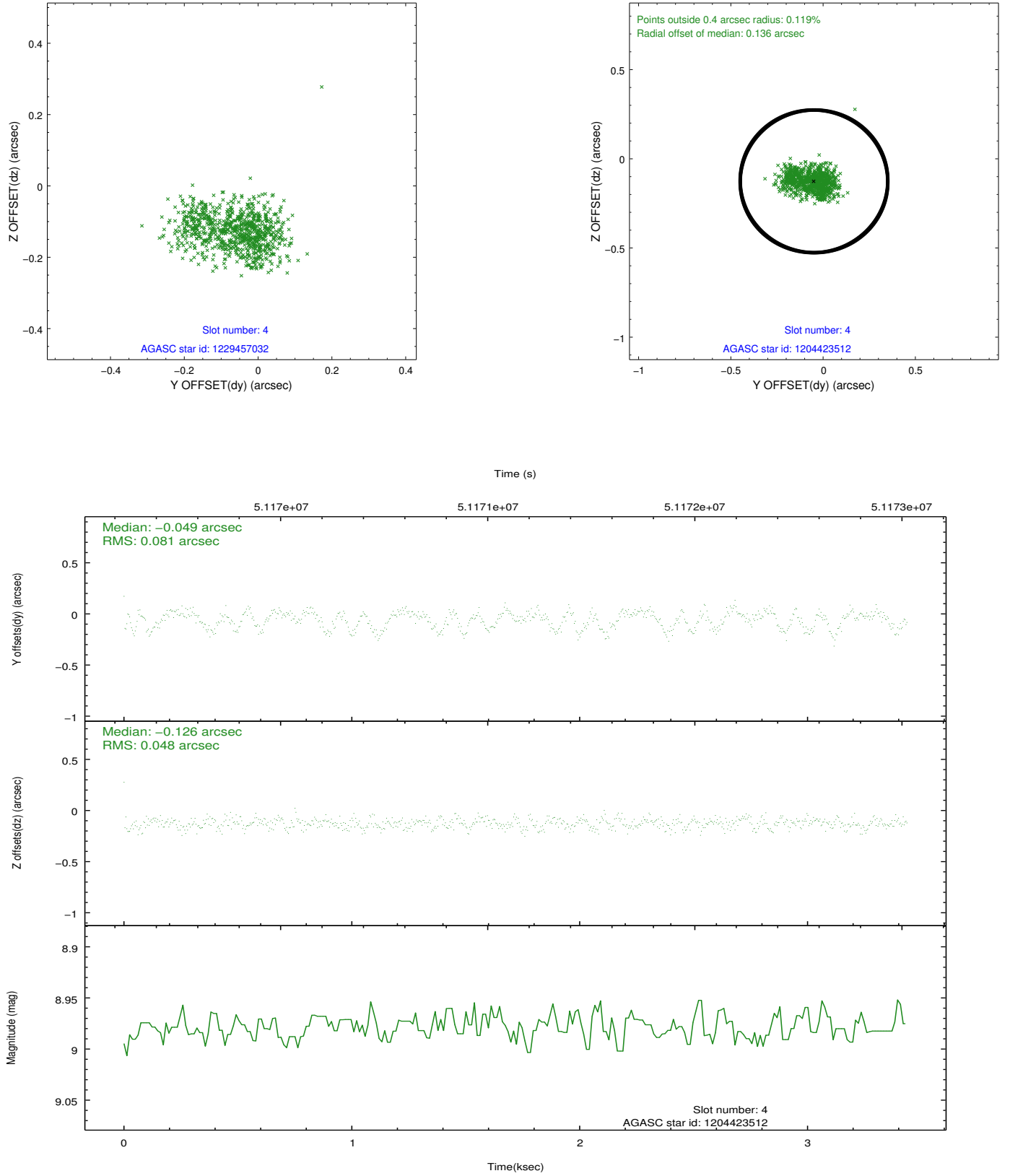
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-3	7.35	839	-0.040	0.027	0.007	0.011	0.000000	0.000000	60.84	-1849.60
1	FID	ACIS-S-4	7.22	839	0.170	0.009	0.007	0.010	0.000000	0.000000	2161.22	185.67
2	FID	ACIS-S-5	7.25	839	-0.158	-0.027	0.006	0.011	0.000000	0.000000	-1802.74	181.71
3	GUIDE	1229457032	9.18	838	0.031	-0.033	0.079	0.130	100.958417	-75.581890	-2027.22	-399.21
4	GUIDE	1204423512	8.98	839	-0.049	-0.126	0.101	0.159	100.368786	-74.674048	600.90	-2414.22
5	GUIDE	1229331616	9.90	839	0.061	-0.157	0.105	0.166	96.182998	-75.347362	1615.29	2058.79
6	GUIDE	1204427552	9.97	835	-0.033	0.321	0.121	0.185	98.426081	-74.700454	1860.30	-1052.57
7	UNUSED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00

2.4 Star Slots

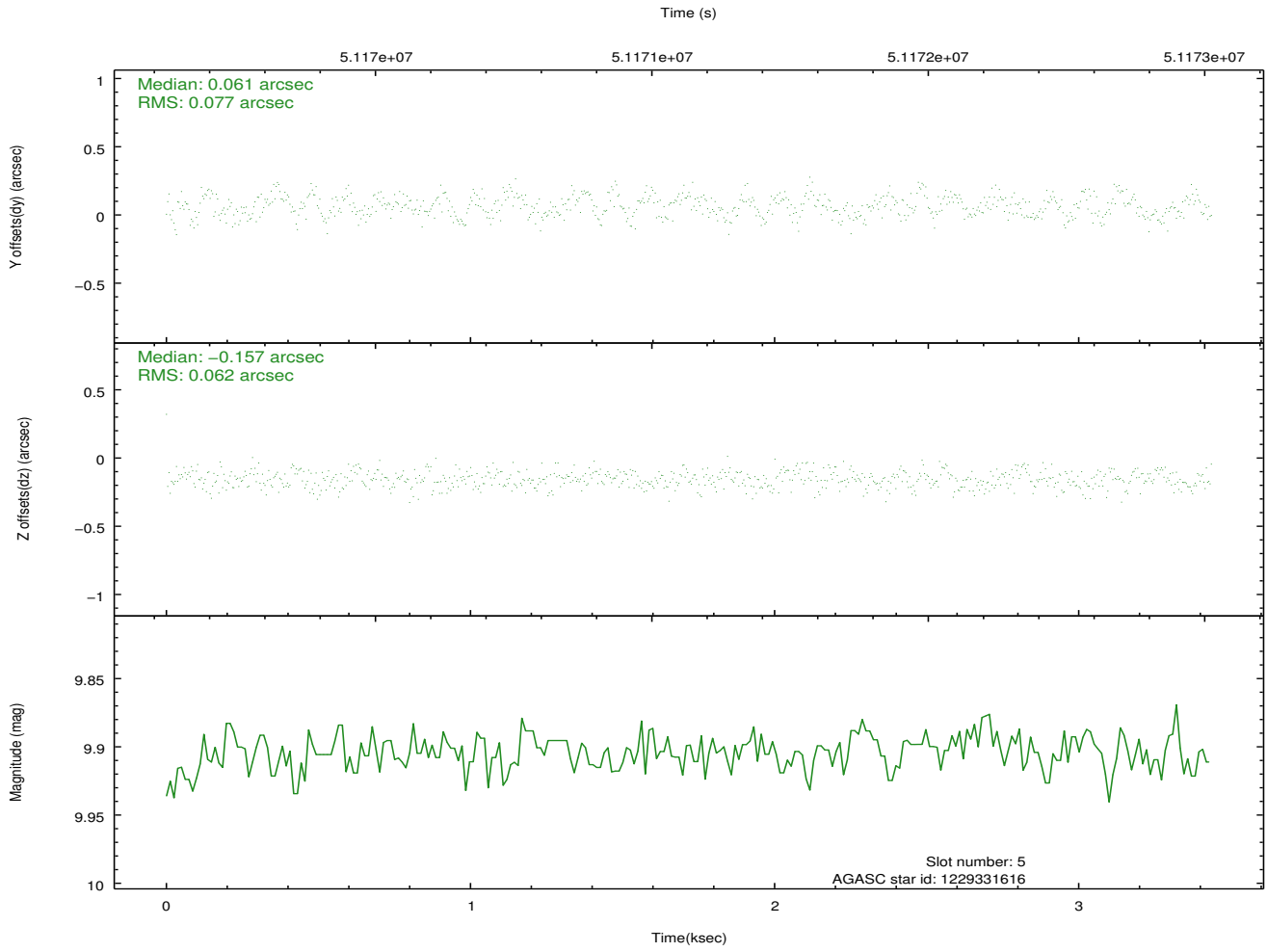
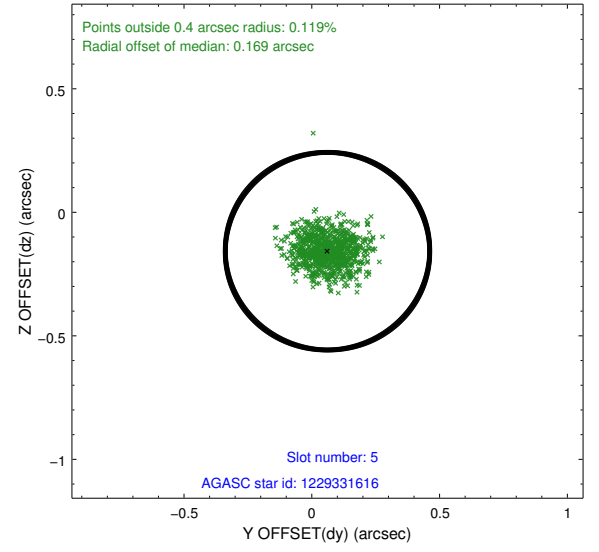
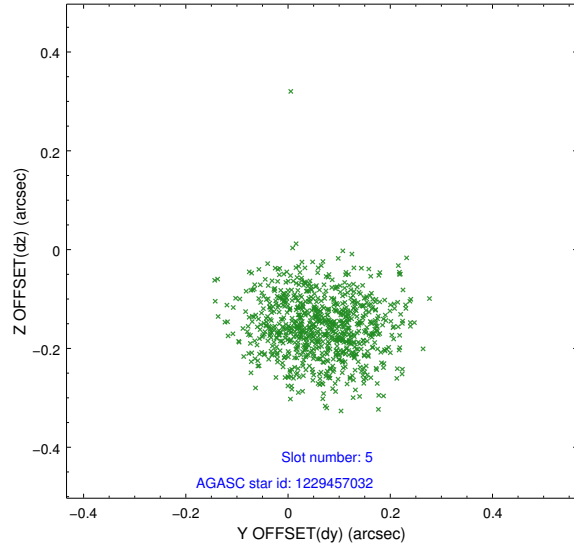
2.4.1 Slot 3



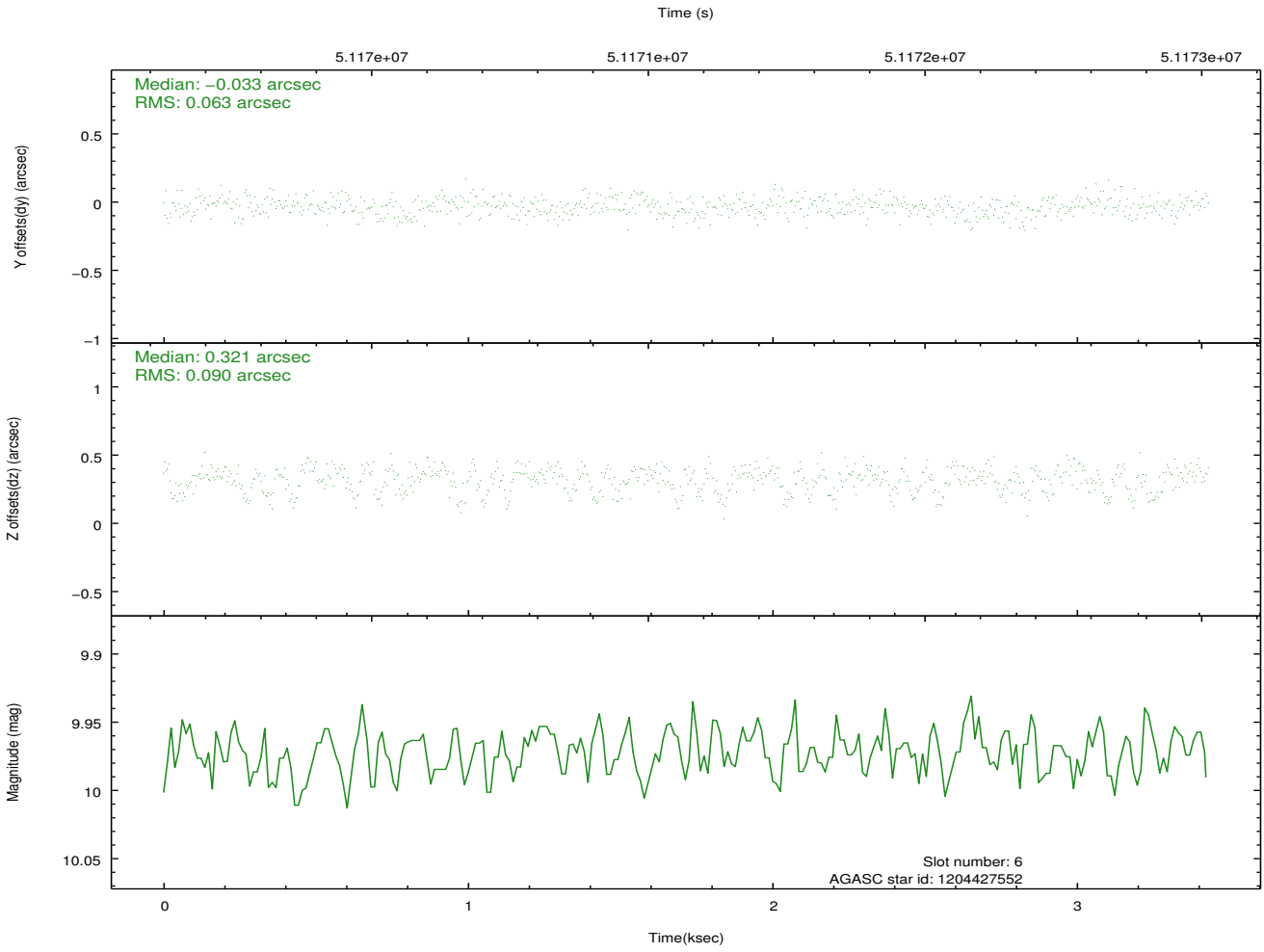
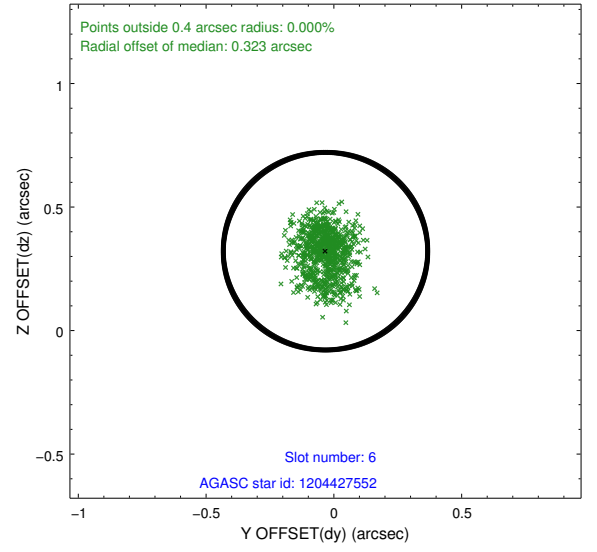
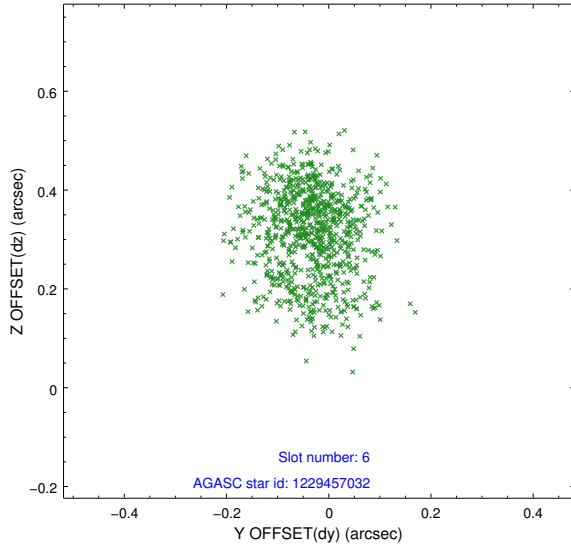
2.4.2 Slot 4



2.4.3 Slot 5

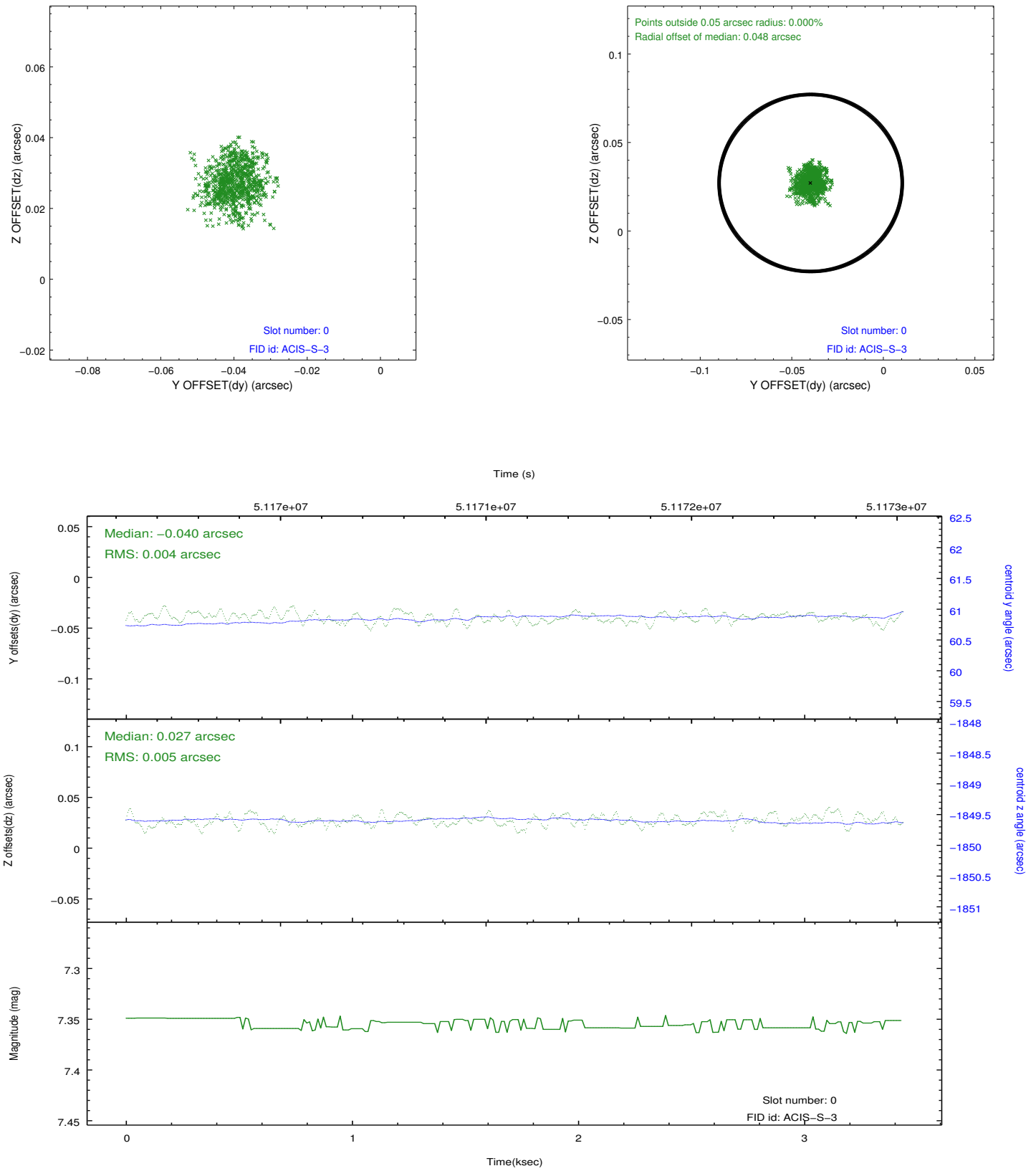


2.4.4 Slot 6

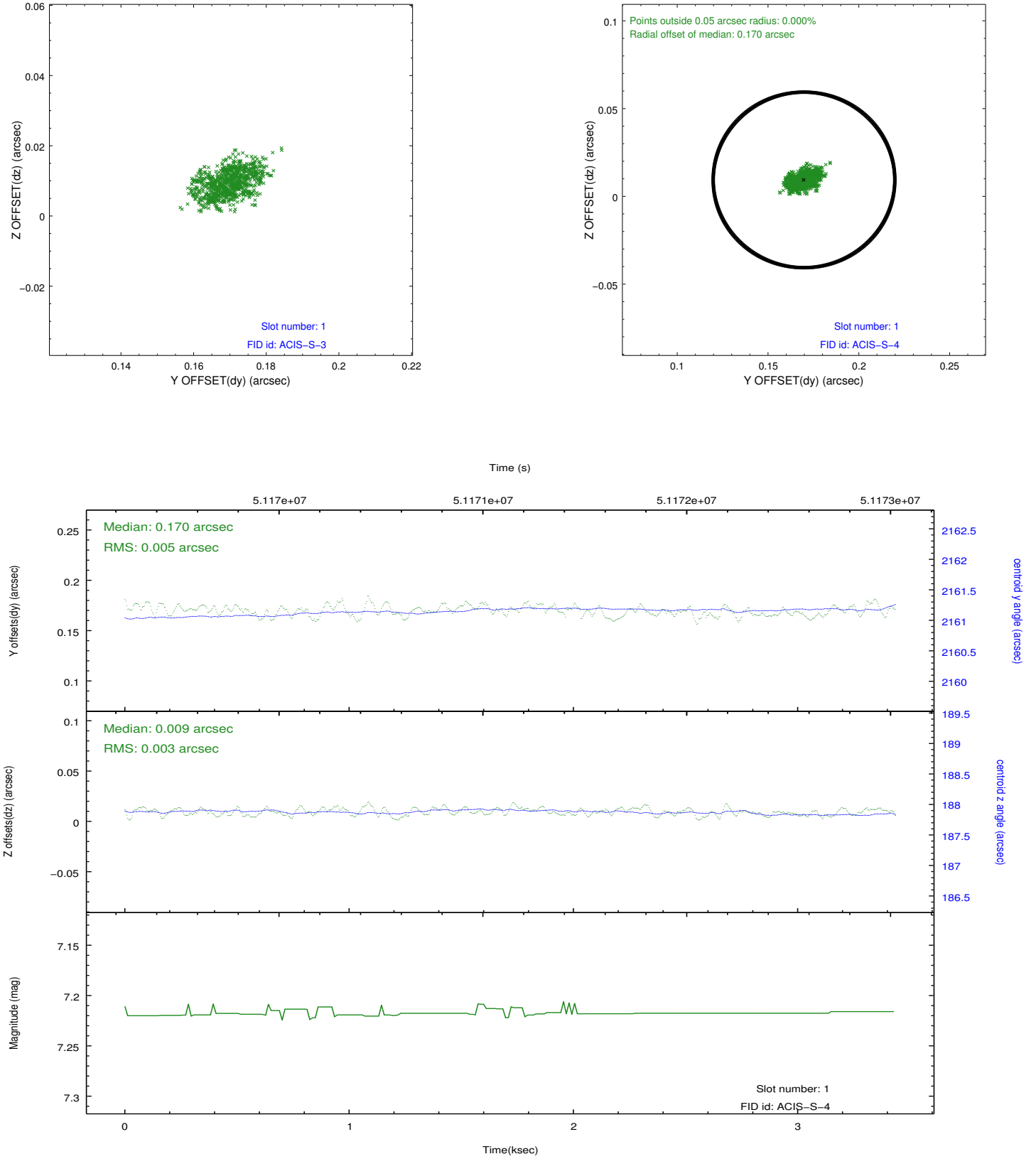


2.5 FID Slots

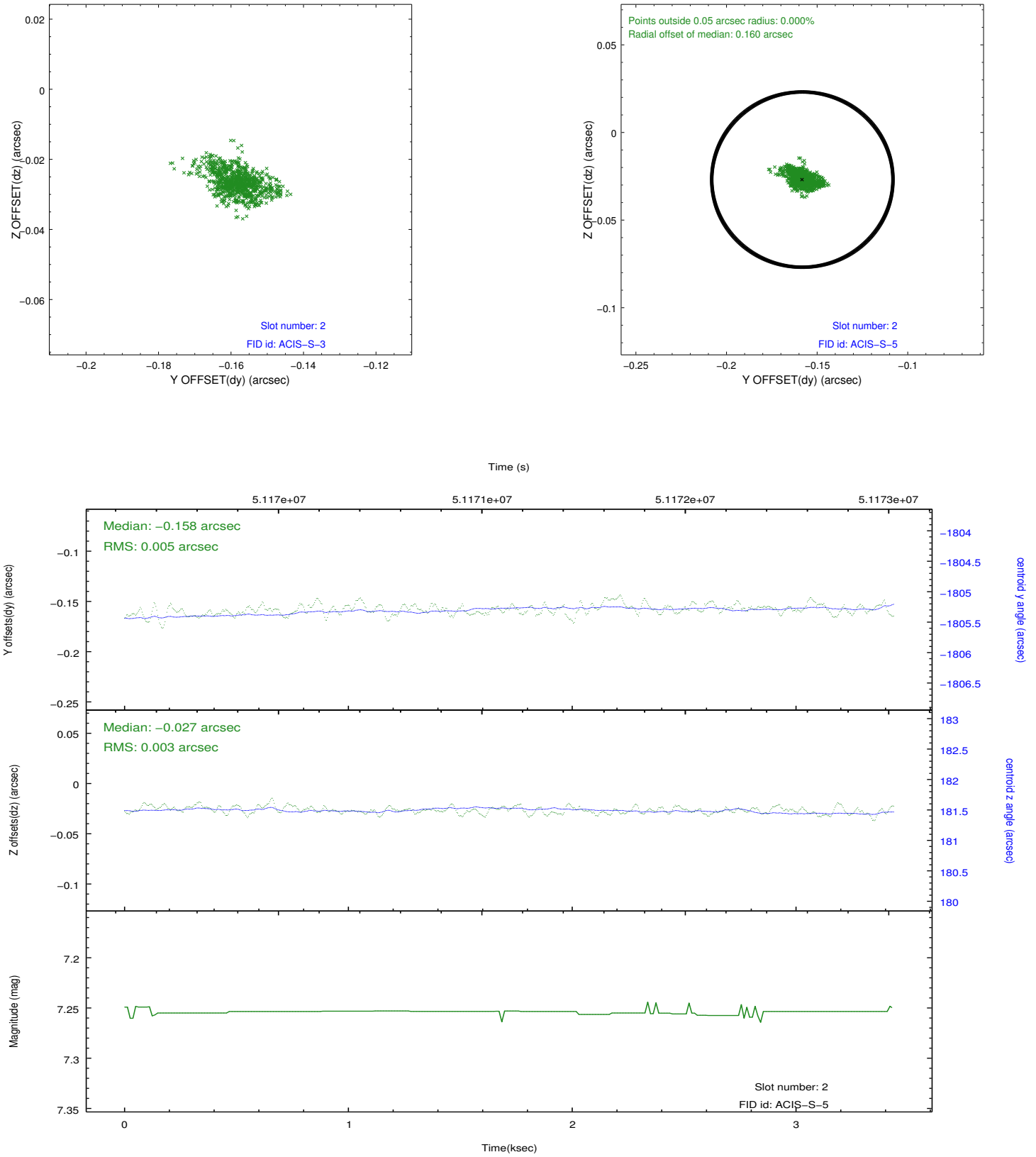
2.5.1 Slot 0



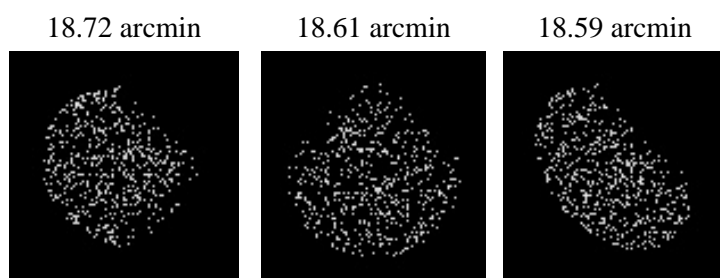
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.05.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.035

A.2 Comments

Optical axis determination with PKS0637.

SIM focus at motor step -932

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No guide star acquired in slot 7.

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The focal plane temperature is approximately -100 C during this observation. This reprocessing of the data applies no CTI correction because none is available for this temperature at present.

The ACIS CTI correction has not been calibrated at this temperature, because it was early in the mission, and ACIS had not yet been lowered to the standard -119.7 C. Both front and back illuminated chips are affected. However a T_GAIN correction has been applied to the BI chips (ACIS-5 and ACIS-7) data included here.

The ACIS spectral response calibration is less accurate at these warmer temperatures than it is at -119.7 C. Users whose science objectives depend on the most accurate spectral response (ie: fitting line-rich spectra) may notice an effect. Users whose science objectives do not depend on the most accurate spectral response should not notice an effect.