

V&V Reference Report

L2 ASCDS Version : 8.1.2

Observation 1196 - L2 Version 3
Chandra X-Ray Center

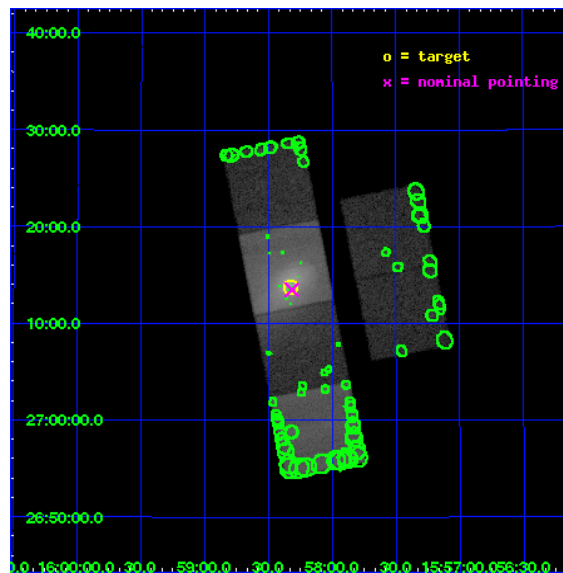
L2 Processing Date : Dec 16 2009

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1 Front

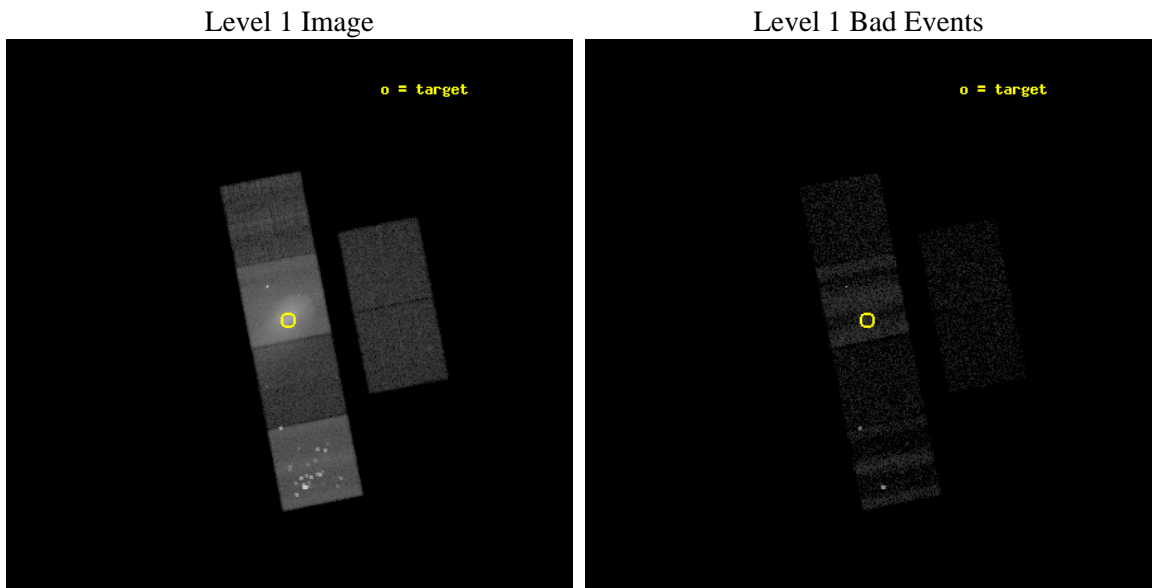
seq_num	880146	Sequence number
obs_id	1196	Observation id
title	 	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	A2142	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	239.5825	Observer's specified target RA
dec_targ	27.229167	Observer's specified target Dec
ra_nom	239.57901535033	Nominal RA
dec_nom	27.224894945026	Nominal Dec
roll_nom	258.85918910659	Nominal Roll
revision	3	Processing version of data
ontime	11535.689916238	Sum of GTIs [s]
livetime	11389.61806456	Livetime [s]
ontime2	11532.366876028	Sum of GTIs [s]
ontime3	11535.566796236	Sum of GTIs [s]
ontime5	11535.648876235	Sum of GTIs [s]
ontime6	11535.484716237	Sum of GTIs [s]
ontime7	11535.689916238	Sum of GTIs [s]
ontime8	11535.52575624	Sum of GTIs [s]
l2events	428471	Number of level 2 events



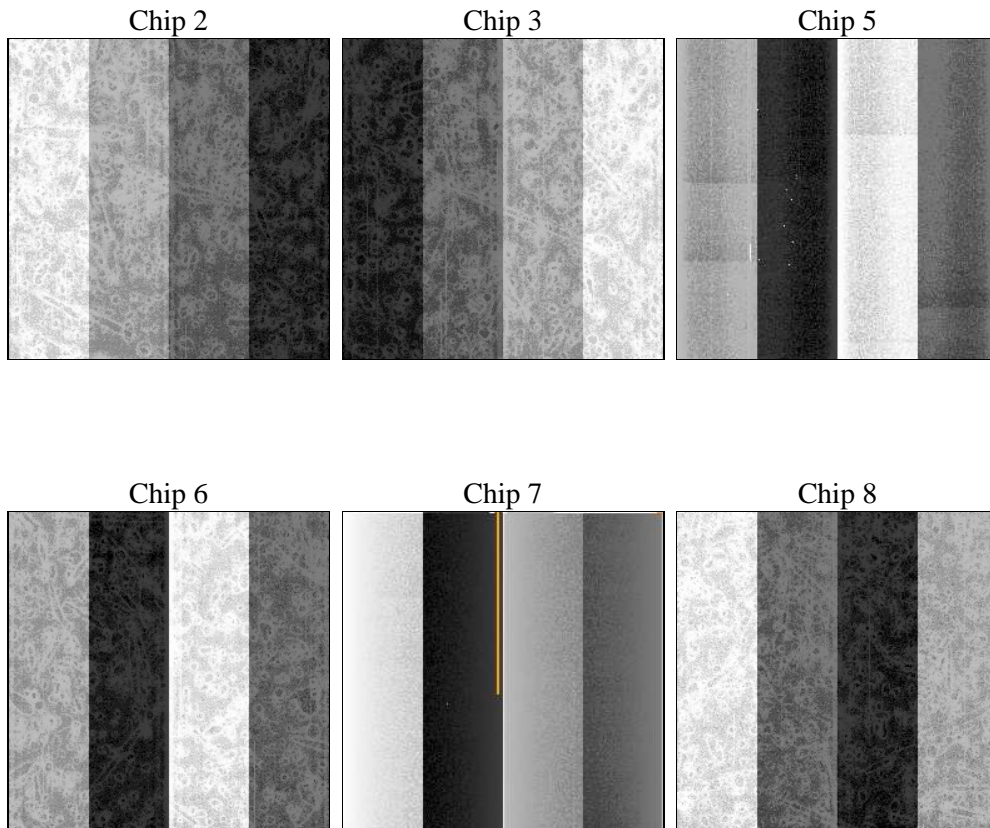
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	12500.000000	Scheduled observation exposure time
ascdsver	8.1.2	ASCDS version number	ontime	11535.689916238	Sum of GTIs [s]
caldbver	4.1.4	 	ontime2	11532.366876028	Sum of GTIs [s]
date	2009-12-16T04:36:56	Date and time of file creation	ontime3	11535.566796236	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	11535.648876235	Sum of GTIs [s]
			ontime6	11535.484716237	Sum of GTIs [s]
			ontime7	11535.689916238	Sum of GTIs [s]
			ontime8	11535.52575624	Sum of GTIs [s]
			l1events	546246	Number of level 1 events

2.1.4 Events

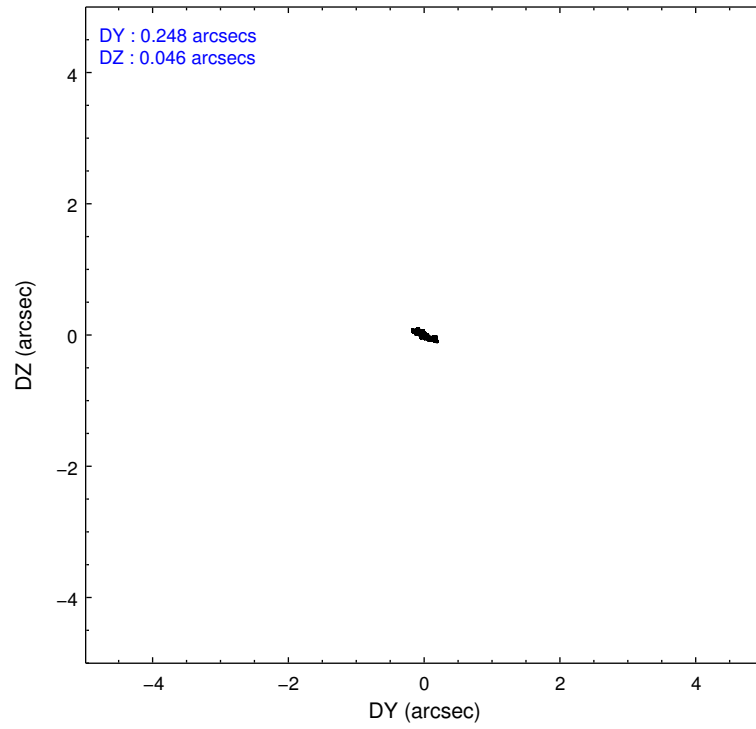
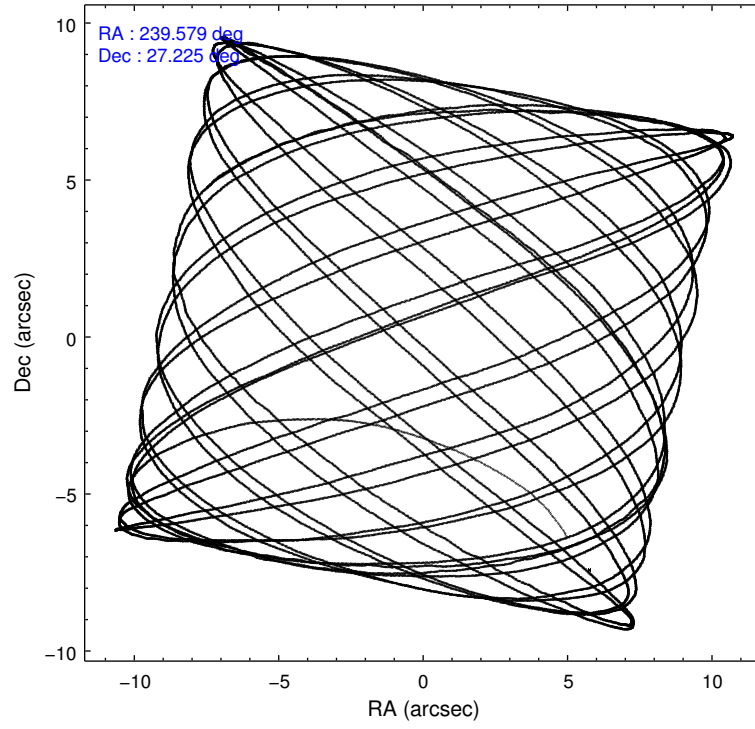
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	27005	28106	146209	42424	260277	42225
rejected events	6318	6817	11379	7345	16567	8121
rejected %	23%	24%	7%	17%	6%	19%

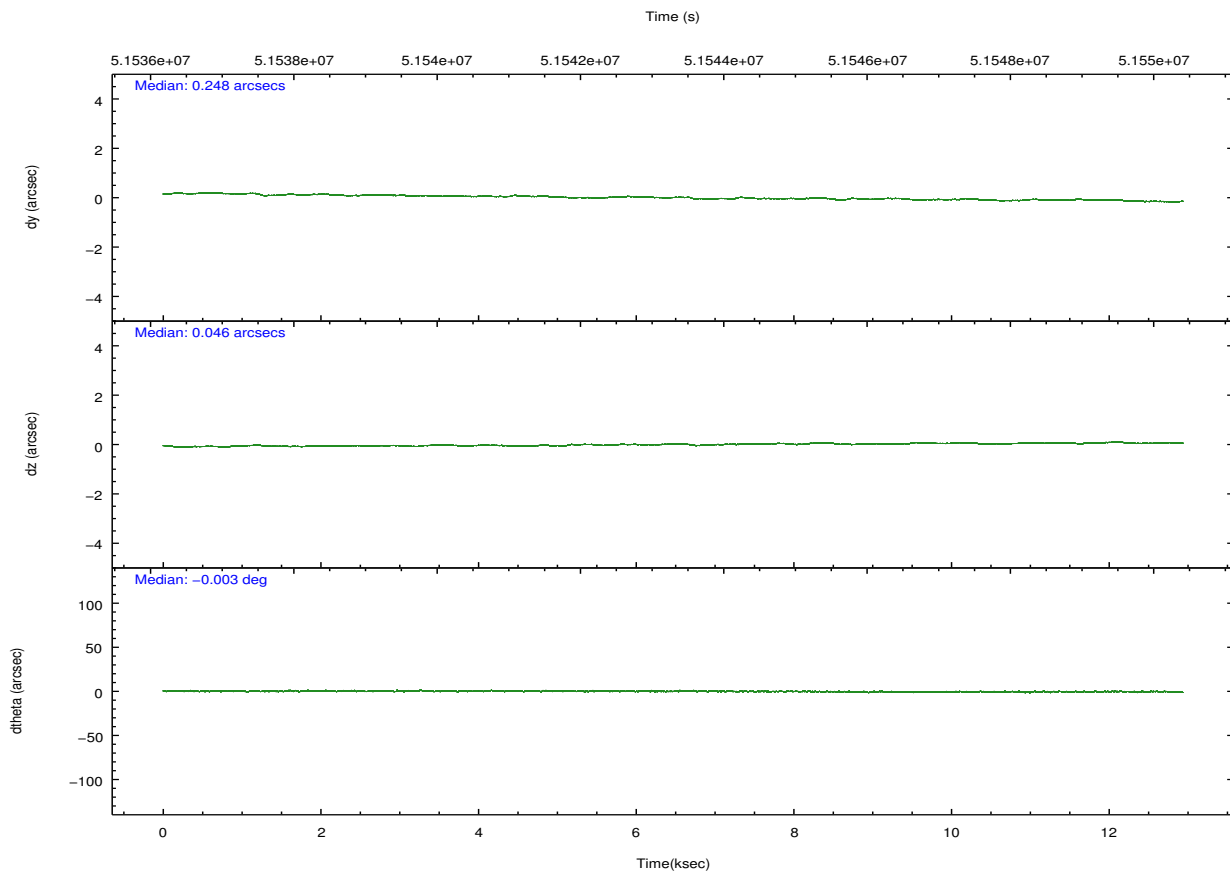
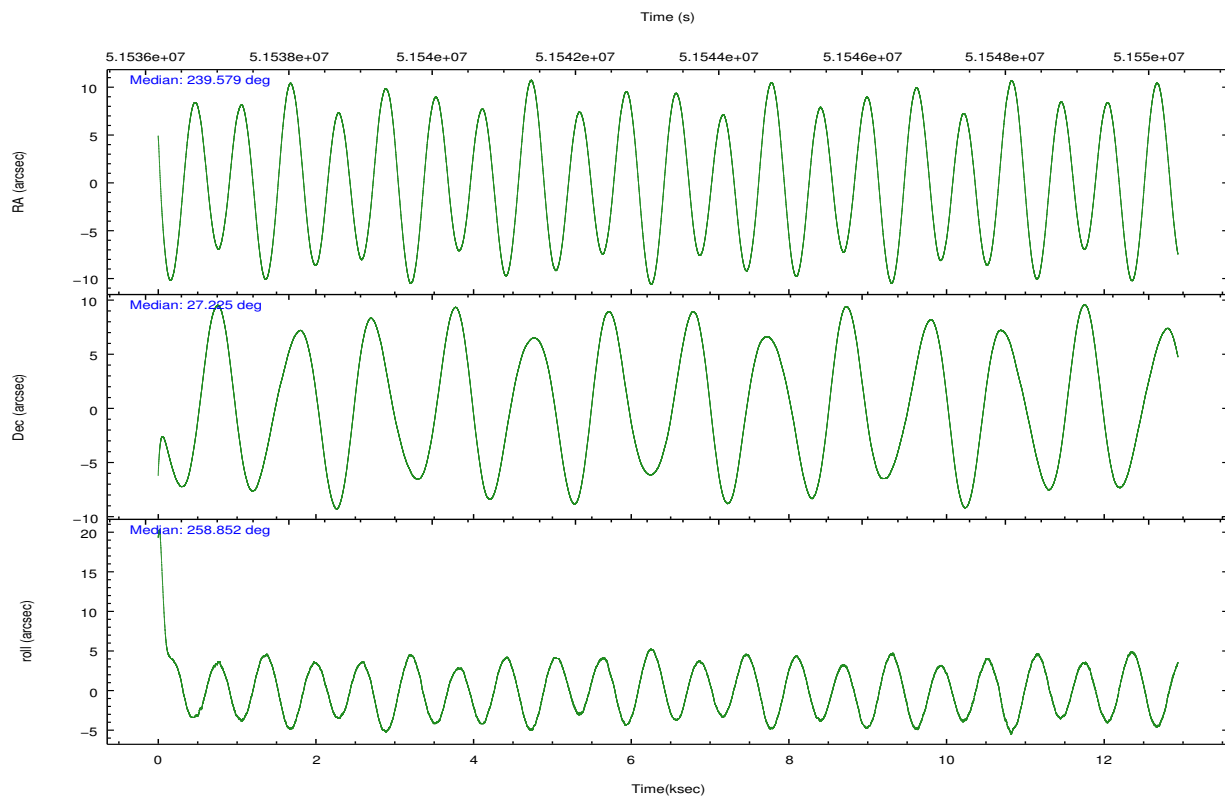
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	6574	6905	34318	16477	47348	10877
	24%	24%	23%	38%	18%	25%
grade 1 events	39	55	390	85	585	86
	0%	0%	0%	0%	0%	0%
grade 2 events	4234	4332	21418	6380	47862	7841
	15%	15%	14%	15%	18%	18%
grade 3 events	1752	1752	6082	2151	27049	2851
	6%	6%	4%	5%	10%	6%
grade 4 events	1558	1681	5561	1981	24262	2556
	5%	5%	3%	4%	9%	6%
grade 5 events	6268	6748	9428	7241	15834	8018
	23%	24%	6%	17%	6%	18%
grade 6 events	6580	6633	67523	8109	97316	9996
	24%	23%	46%	19%	37%	23%
grade 7 events	0	0	1489	0	21	0
	0%	0%	1%	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	239.569480	239.5790153503334	Subarray requested	NONE	NONE
Pointing Dec	27.251190	27.22489494502619	Alternating exposures requested	N	N
Pointing Roll	258.706908	258.8591891065881	Primary exposure time	0.000000	3.2
SIM focus pos (mm)	-0.684267	-0.865731118321573			
SIM defocus (mm)	0	-0.1814636570216768			
SIM translation stage pos (mm)	-190.132523	-190.1199515274594			
SIM translation stage offset (mm)	0	-0.012571055548392			
Observation start time	51537259.184000	51535521.014019			
Observation start date	1999-08-20T11:53:15	1999-08-20T11:25:21			
Observation end time	51549759.184000	51549885.877036			
Observation end date	1999-08-20T15:21:35	1999-08-20T15:24:45			
Read mode	TIMED	TIMED			

2.3 Aspect



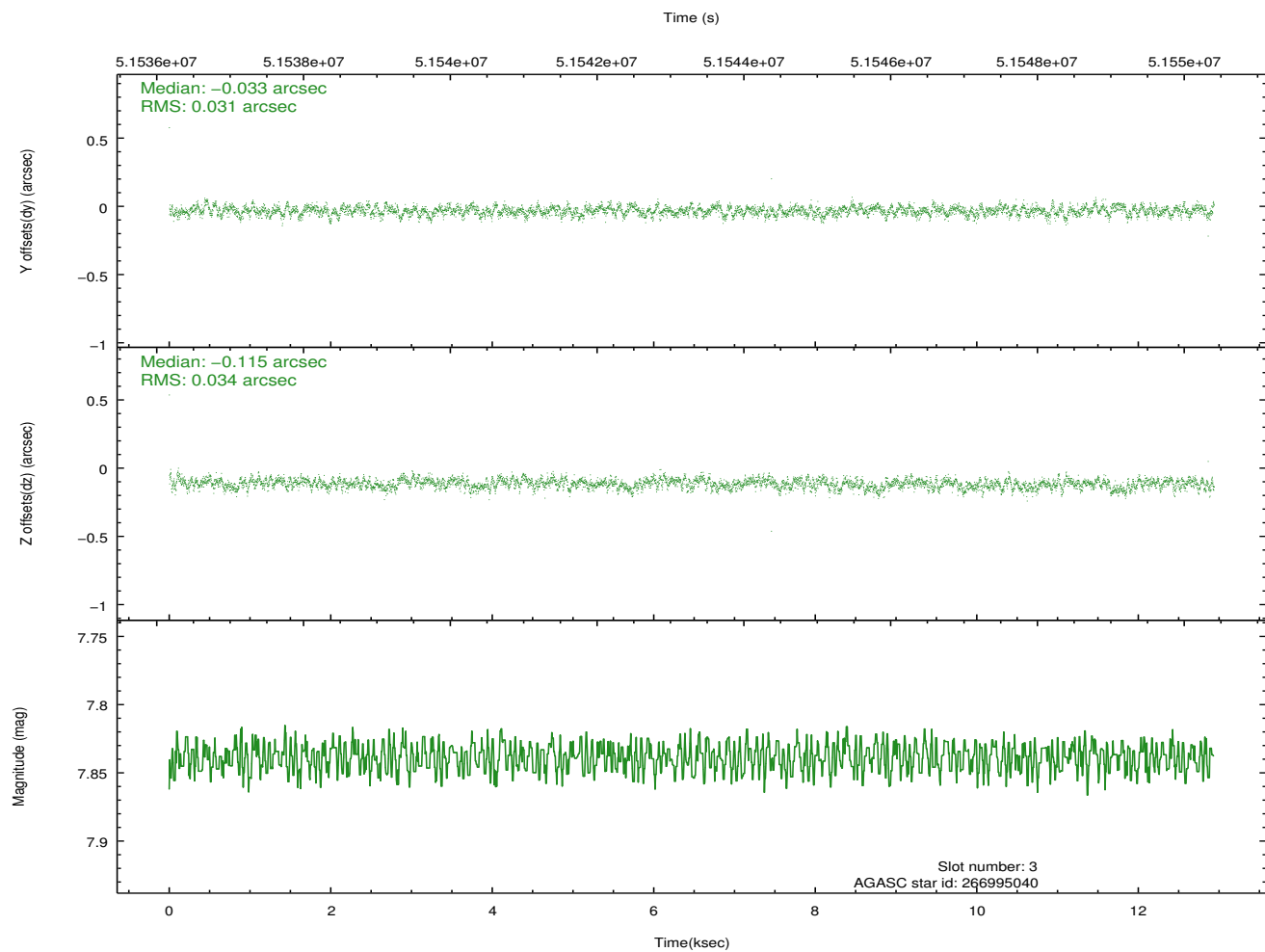
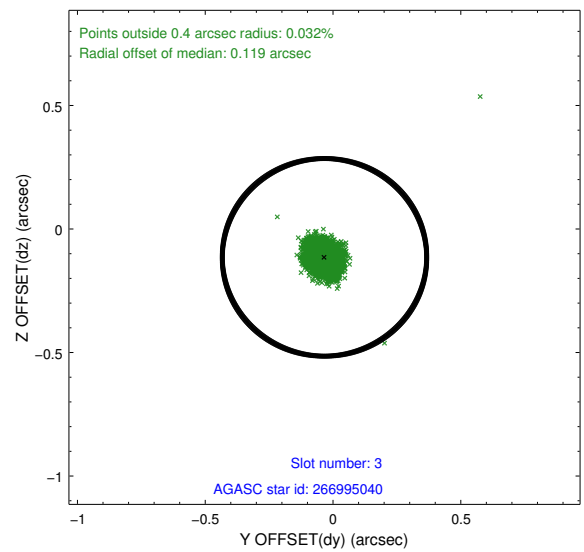
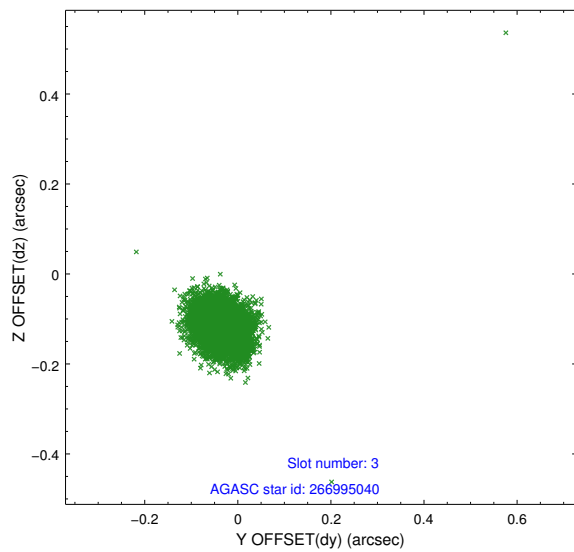


Slot Statistics

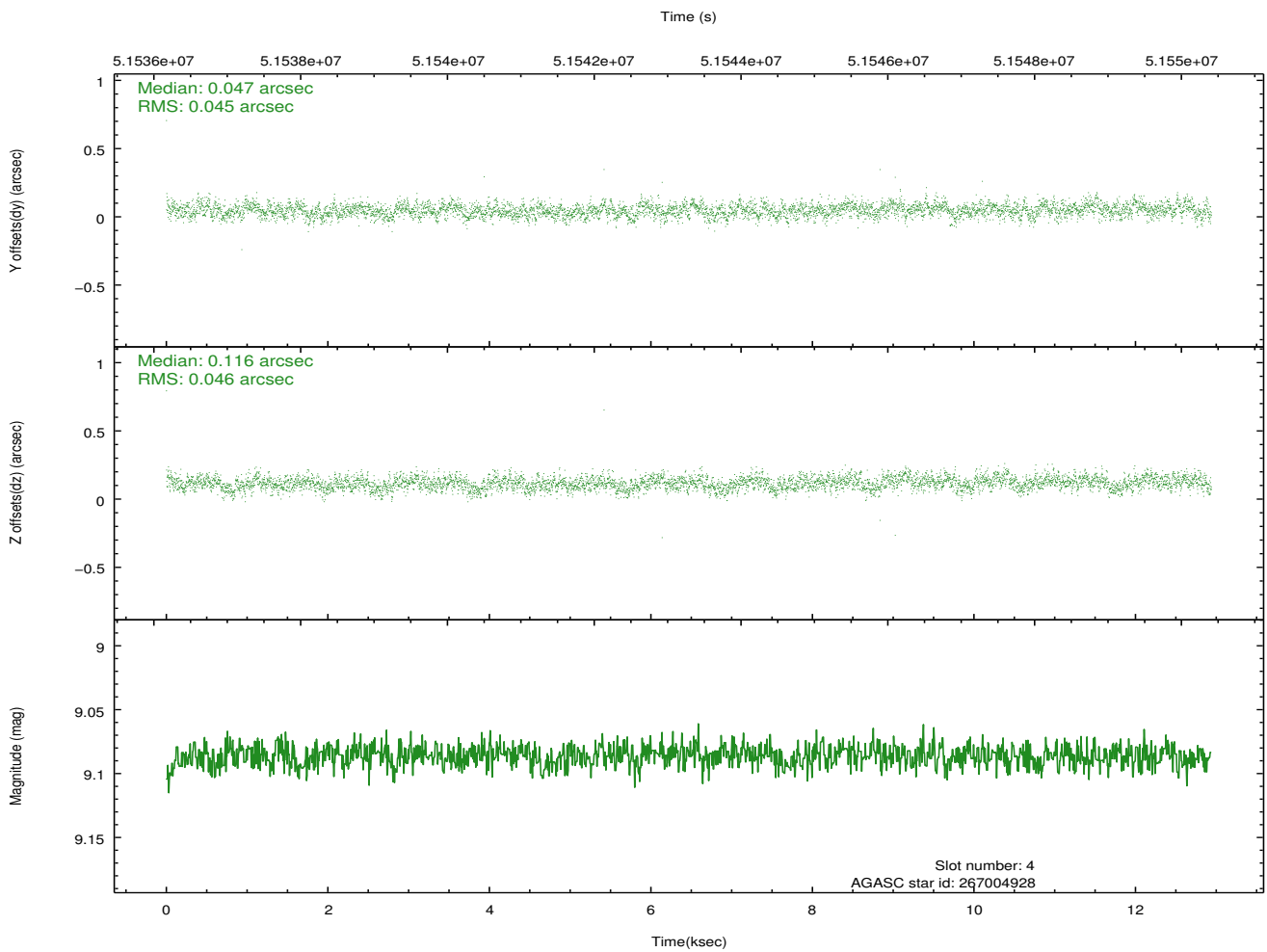
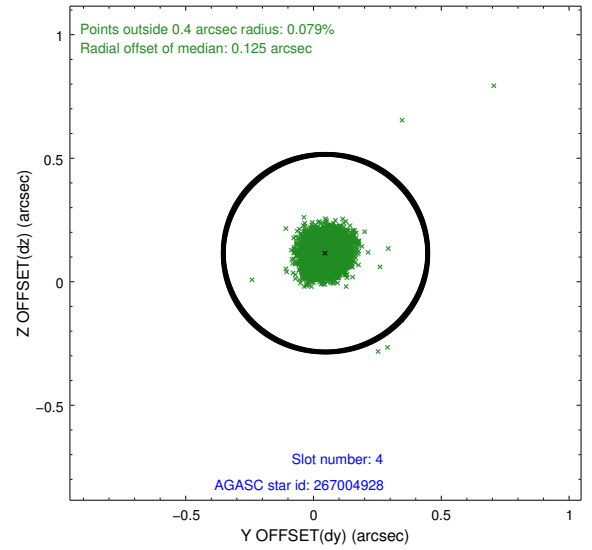
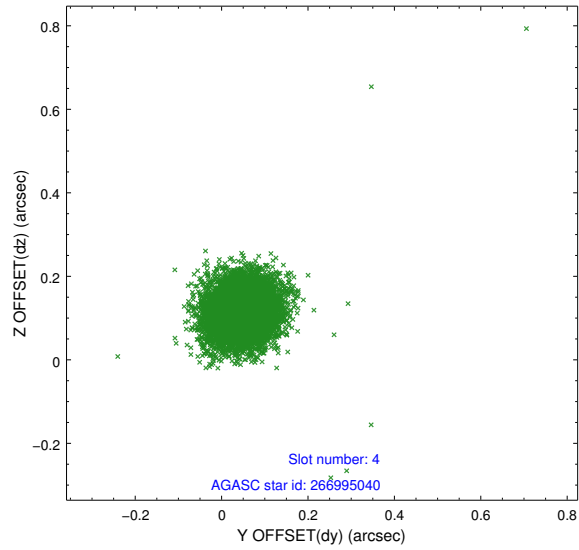
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.12	6312	-0.027	-0.011	0.013	0.020	0.000000	0.000000	-752.87	-1721.40
1	FID	ACIS-S-4	7.22	6312	0.112	0.016	0.025	0.037	0.000000	0.000000	2160.49	186.91
2	FID	ACIS-S-5	7.25	6311	-0.119	0.004	0.015	0.026	0.000000	0.000000	-1805.61	180.78
3	GUIDE	266995040	7.84	6311	-0.033	-0.115	0.048	0.077	239.014769	27.051479	1049.97	-1603.83
4	GUIDE	267004928	9.09	6307	0.047	0.116	0.066	0.106	239.711277	26.663193	1986.66	862.17
5	GUIDE	267006816	9.97	6304	-0.012	-0.000	0.095	0.152	239.280899	27.325938	-83.45	-957.67
6	UNUSED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
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

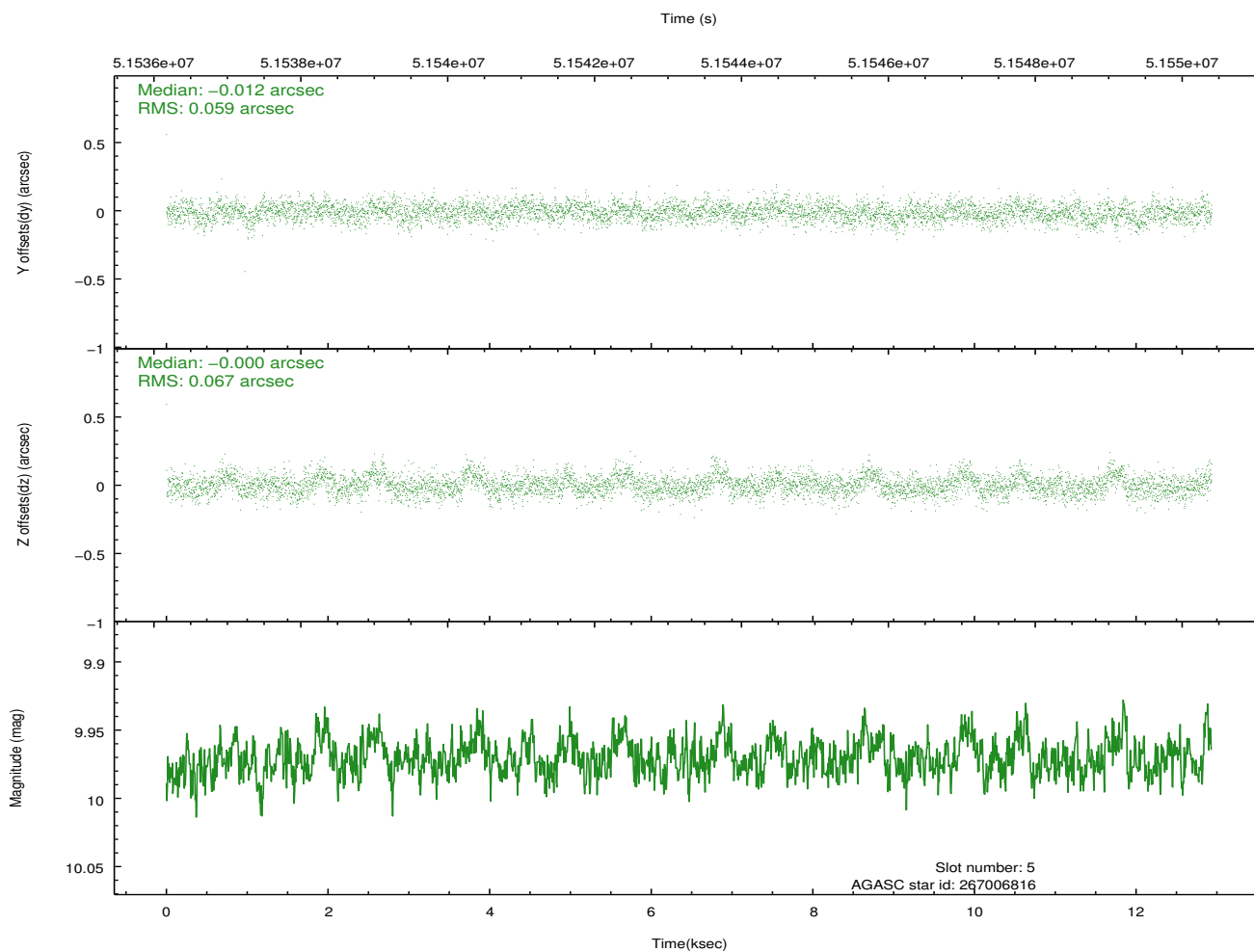
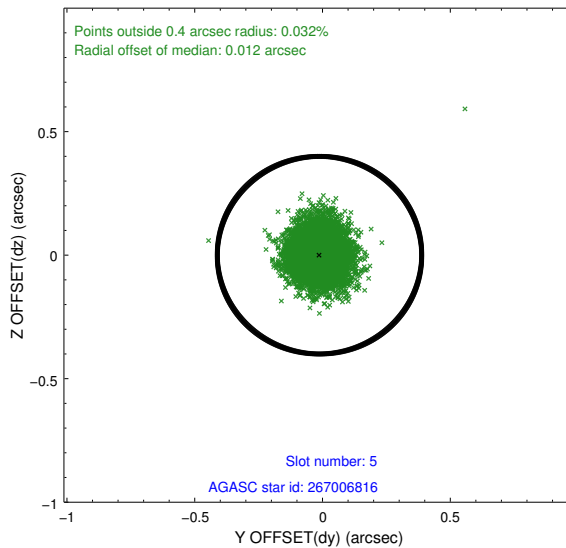
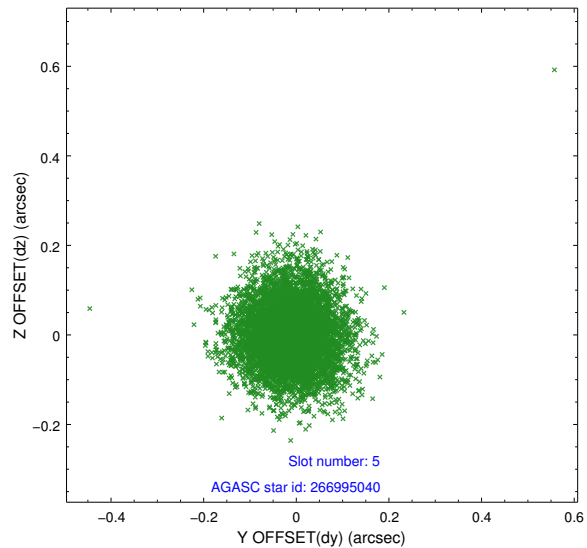
2.4.1 Slot 3



2.4.2 Slot 4

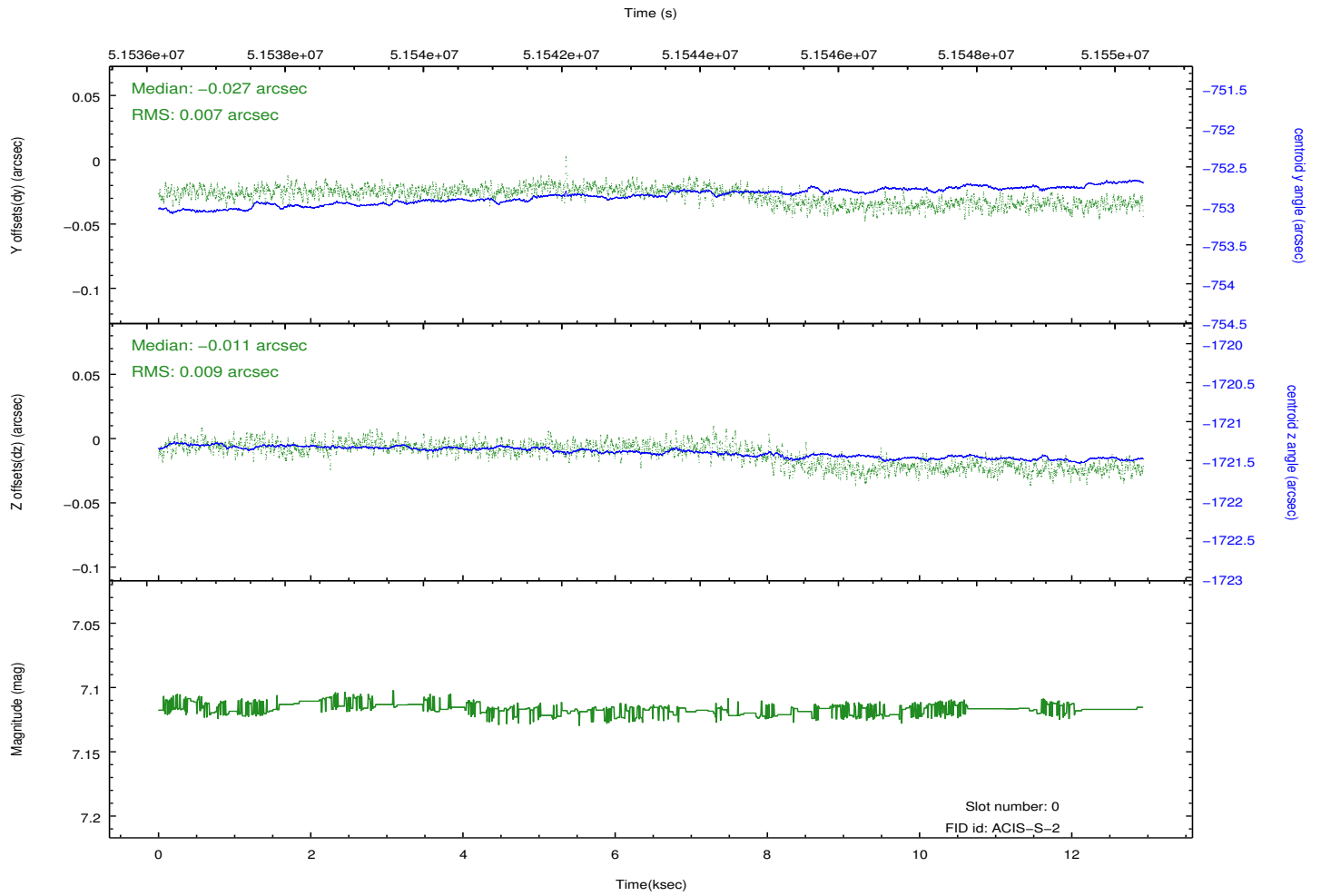
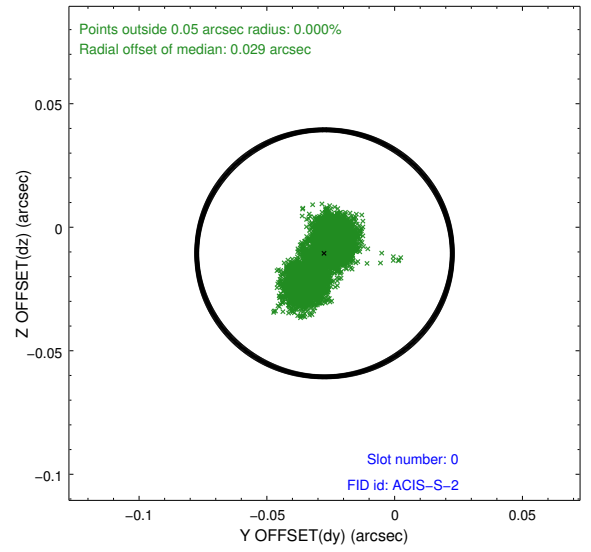
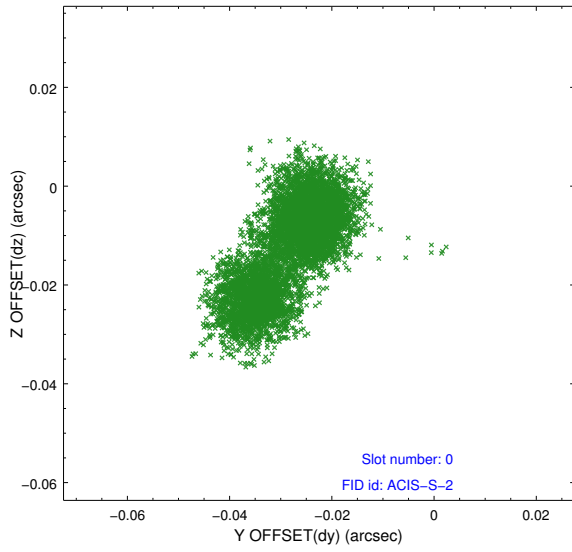


2.4.3 Slot 5

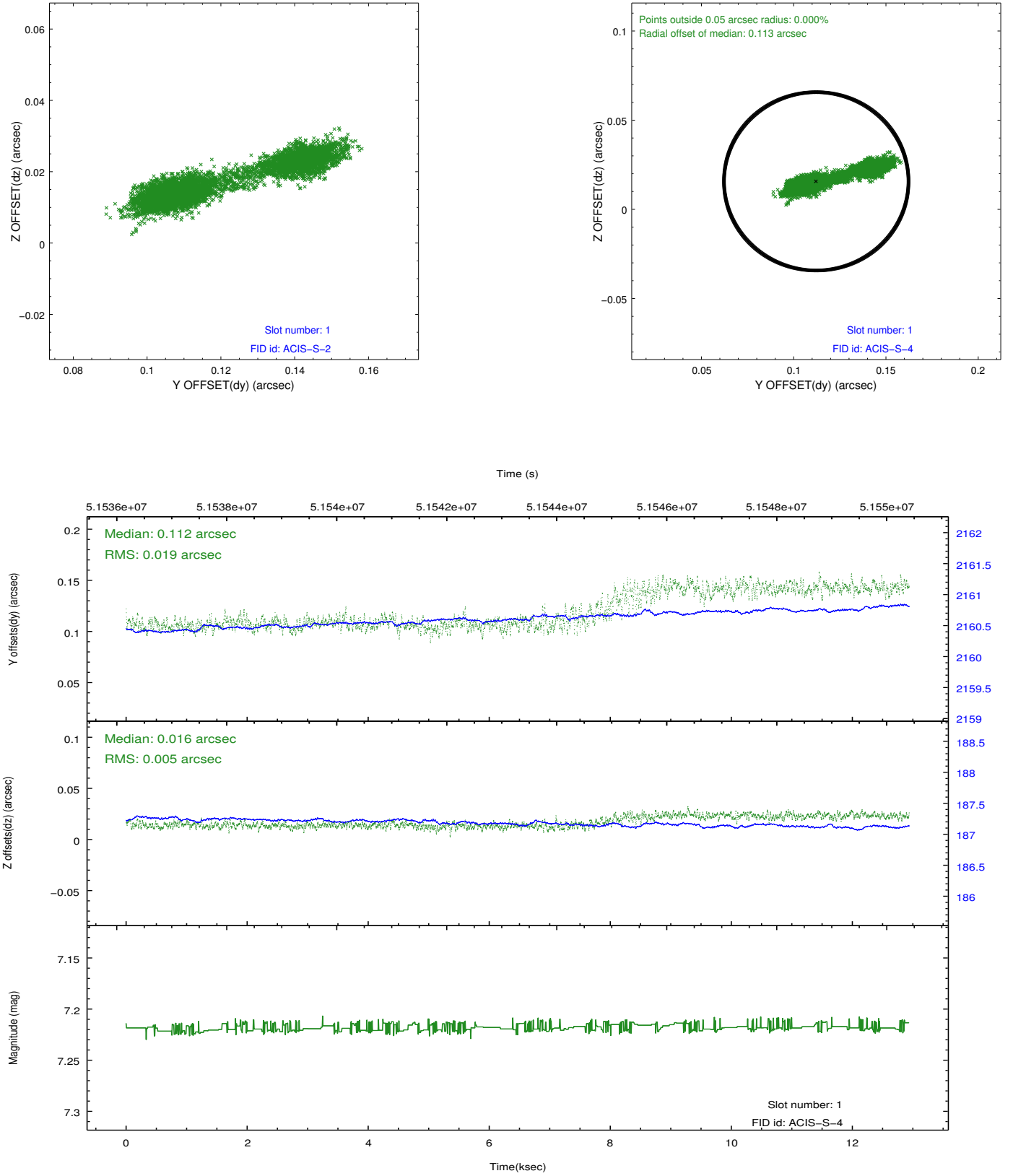


2.5 FID Slots

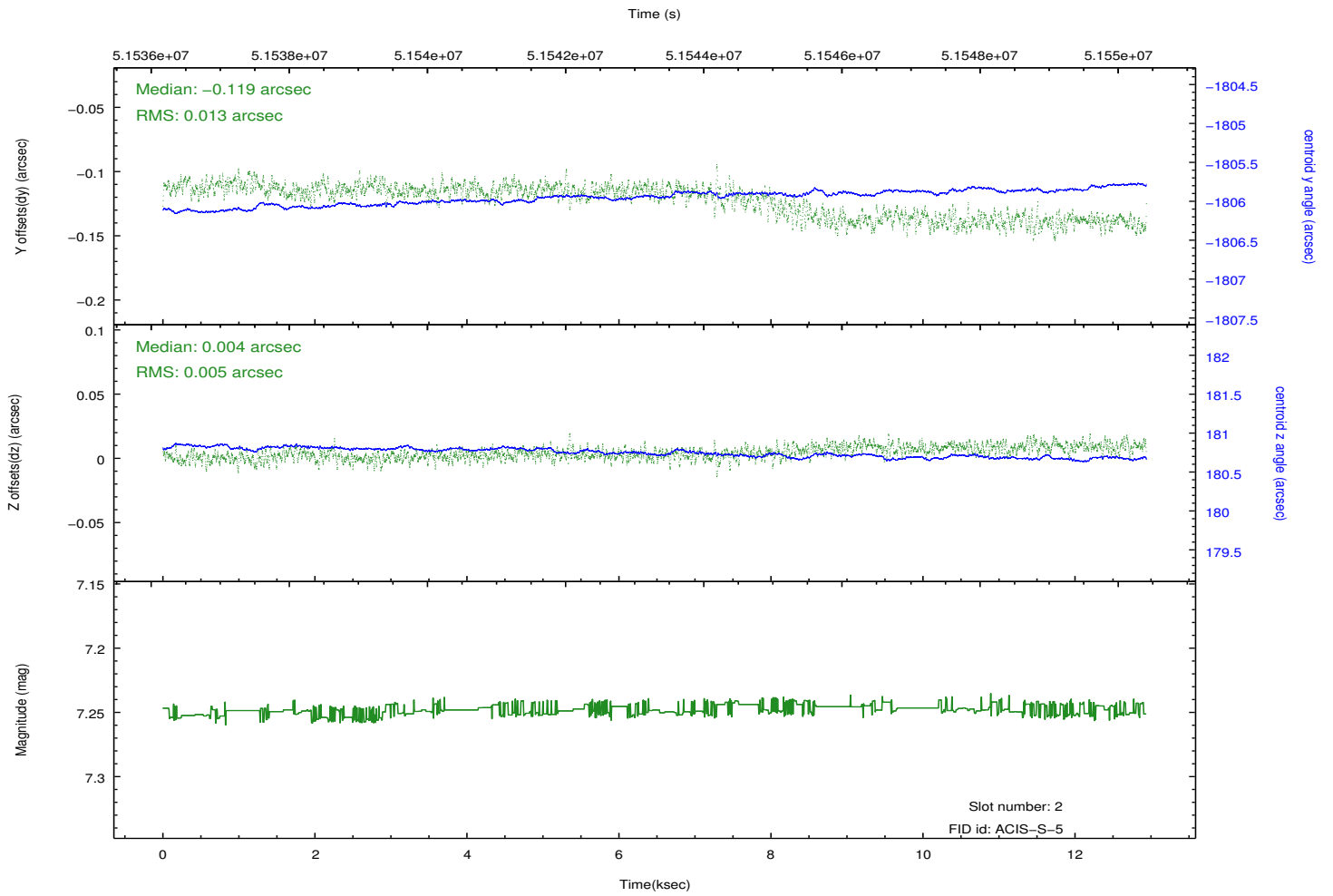
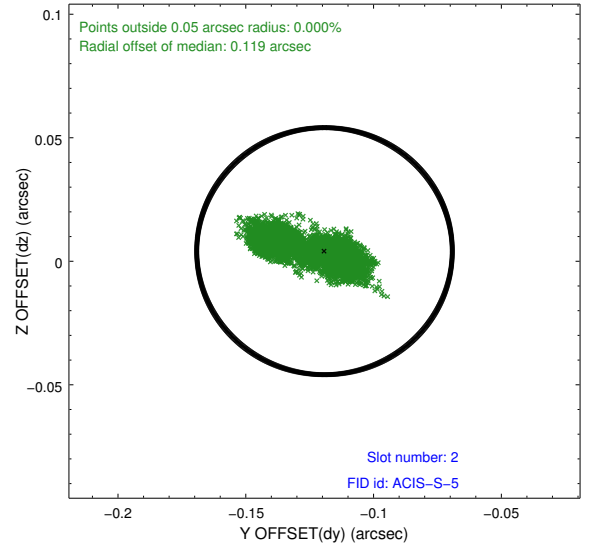
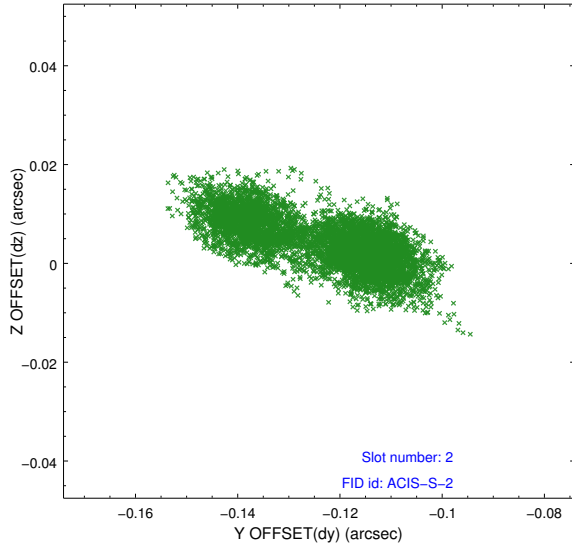
2.5.1 Slot 0



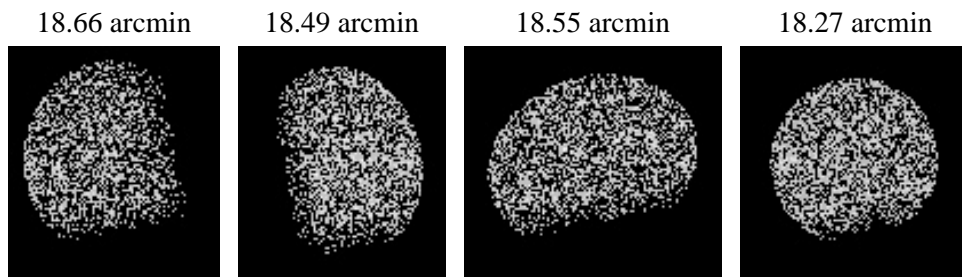
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.07.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	11.536

A.2 Comments

Guide star slots 6 and 7 were not utilized in this observation.

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A high radiation environment, particularly the first 2 ksec and again 10-11 ksec into the observation, results in elevated count rates during these periods.

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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.