

V&V Reference Report

L2 ASCDS Version : 8.1.1

Observation 1449 - L2 Version 3
Chandra X-Ray Center

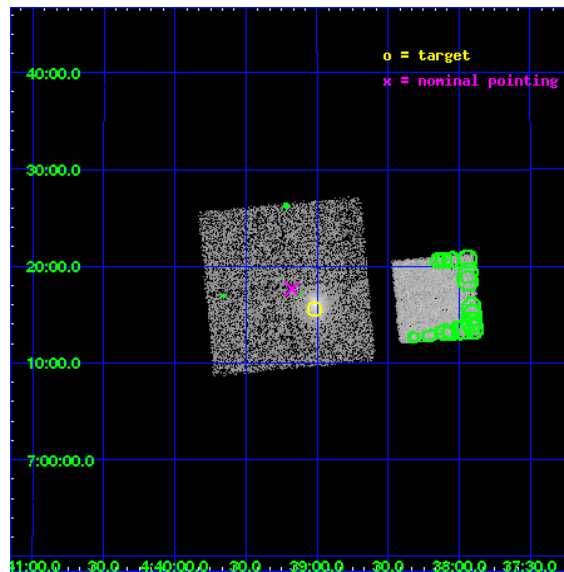
L2 Processing Date : Nov 19 2009

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1 Front

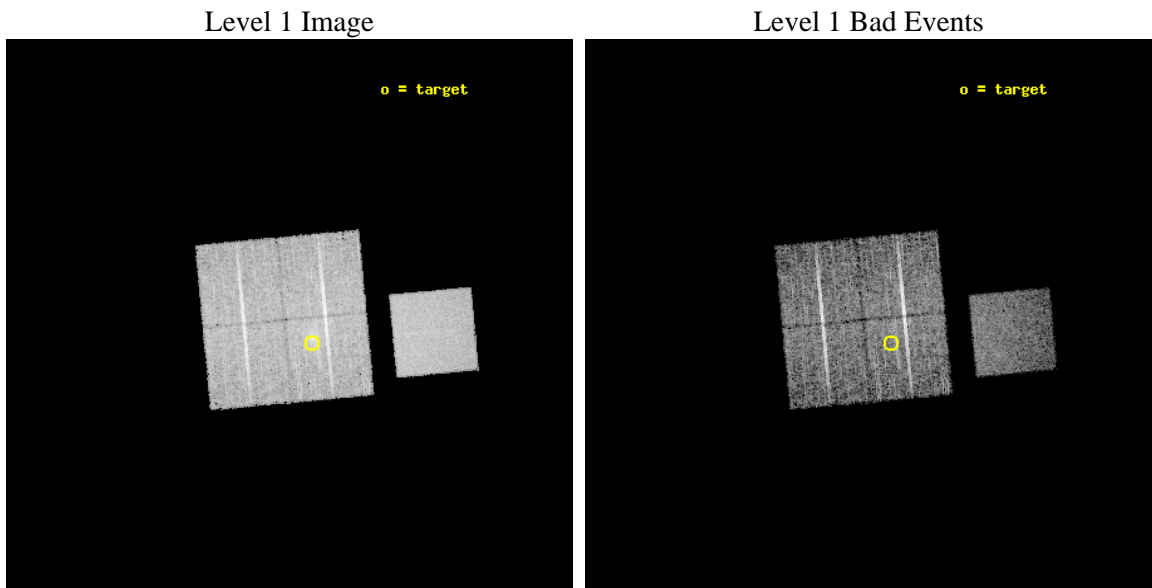
seq_num	800034	Sequence number
obs_id	1449	Observation id
title	DETERMINATION OF H0/Q0	Proposal title
observer	DR. LEON VANSPEYBROECK	Principal investigator
object	RX J0439.0+0715	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	69.755	Observer's specified target RA
dec_targ	7.26	Observer's specified target Dec
ra_nom	69.79418897398	Nominal RA
dec_nom	7.2945908791675	Nominal Dec
roll_nom	84.63449434644	Nominal Roll
revision	3	Processing version of data
ontime	6390.2721597627	Sum of GTIs [s]
livetime	6309.3546859158	Livetime [s]
ontime0	6390.3952797577	Sum of GTIs [s]
ontime1	6390.3542397618	Sum of GTIs [s]
ontime2	6390.3131997585	Sum of GTIs [s]
ontime3	6390.2721597627	Sum of GTIs [s]
ontime7	6390.4000059515	Sum of GTIs [s]
l2events	45732	Number of level 2 events



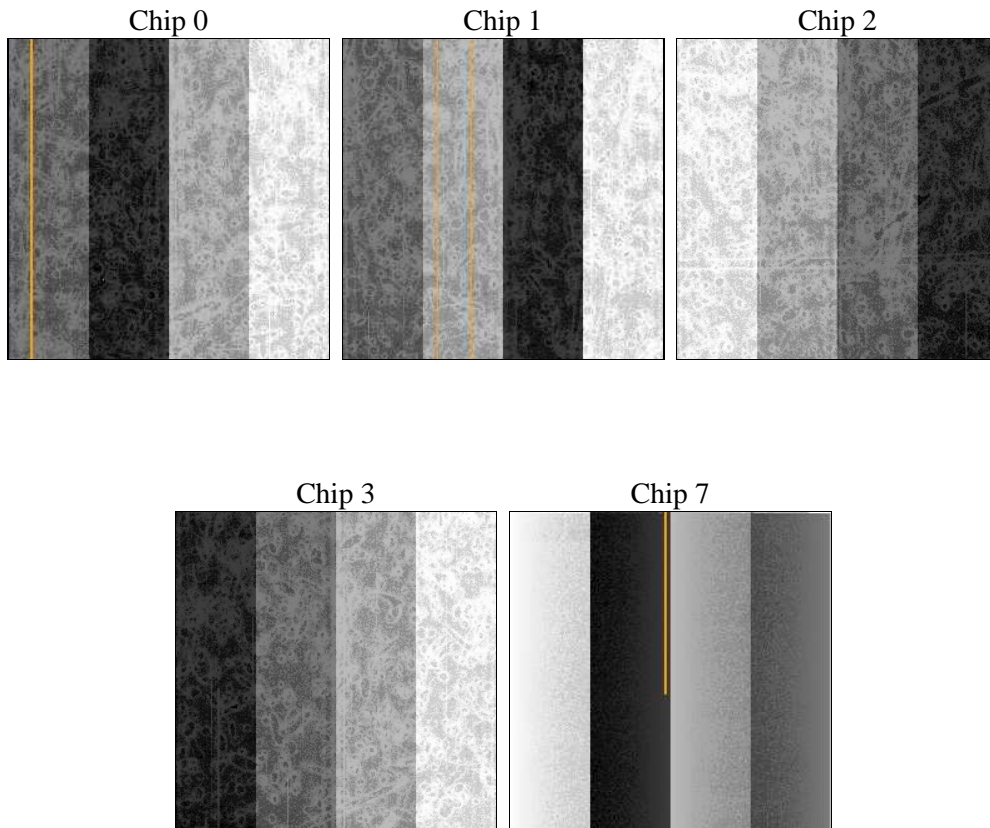
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7660.000000	Scheduled observation exposure time
ascdsver	8.1.1	ASCDS version number	ontime	6390.2721597627	Sum of GTIs [s]
caldbver	4.1.4	 	ontime0	6390.3952797577	Sum of GTIs [s]
date	2009-11-19T22:12:26	Date and time of file creation	ontime1	6390.3542397618	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	6390.3131997585	Sum of GTIs [s]
			ontime3	6390.2721597627	Sum of GTIs [s]
			ontime7	6390.4000059515	Sum of GTIs [s]
			l1events	278894	Number of level 1 events

2.1.4 Events

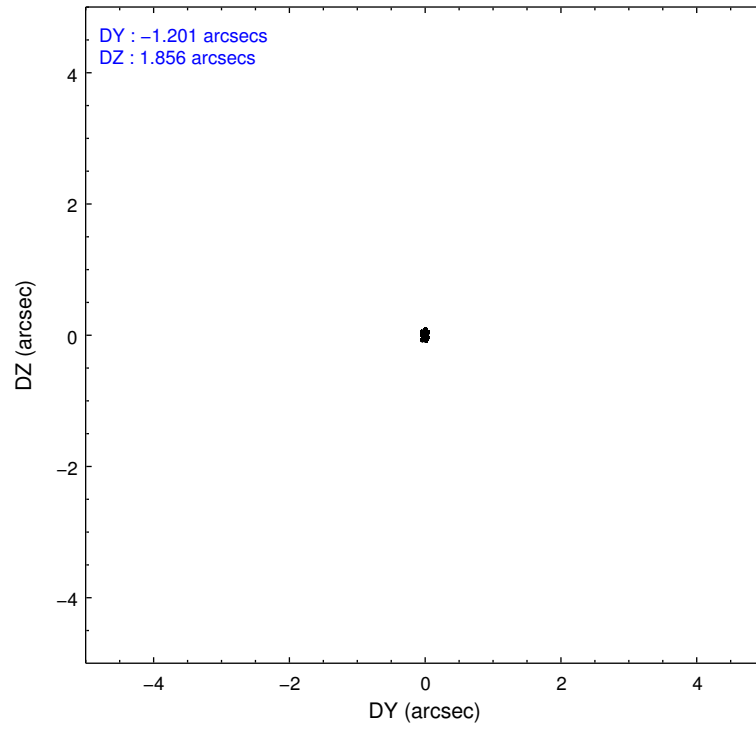
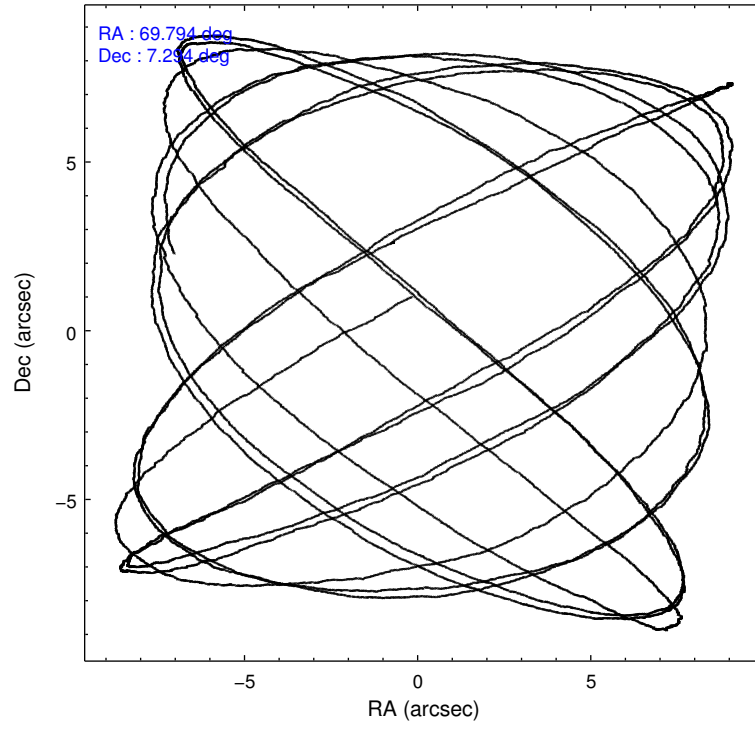
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	51840	50828	55925	60777	59524
rejected events	46455	45052	50794	51273	36776
rejected %	89%	88%	90%	84%	61%

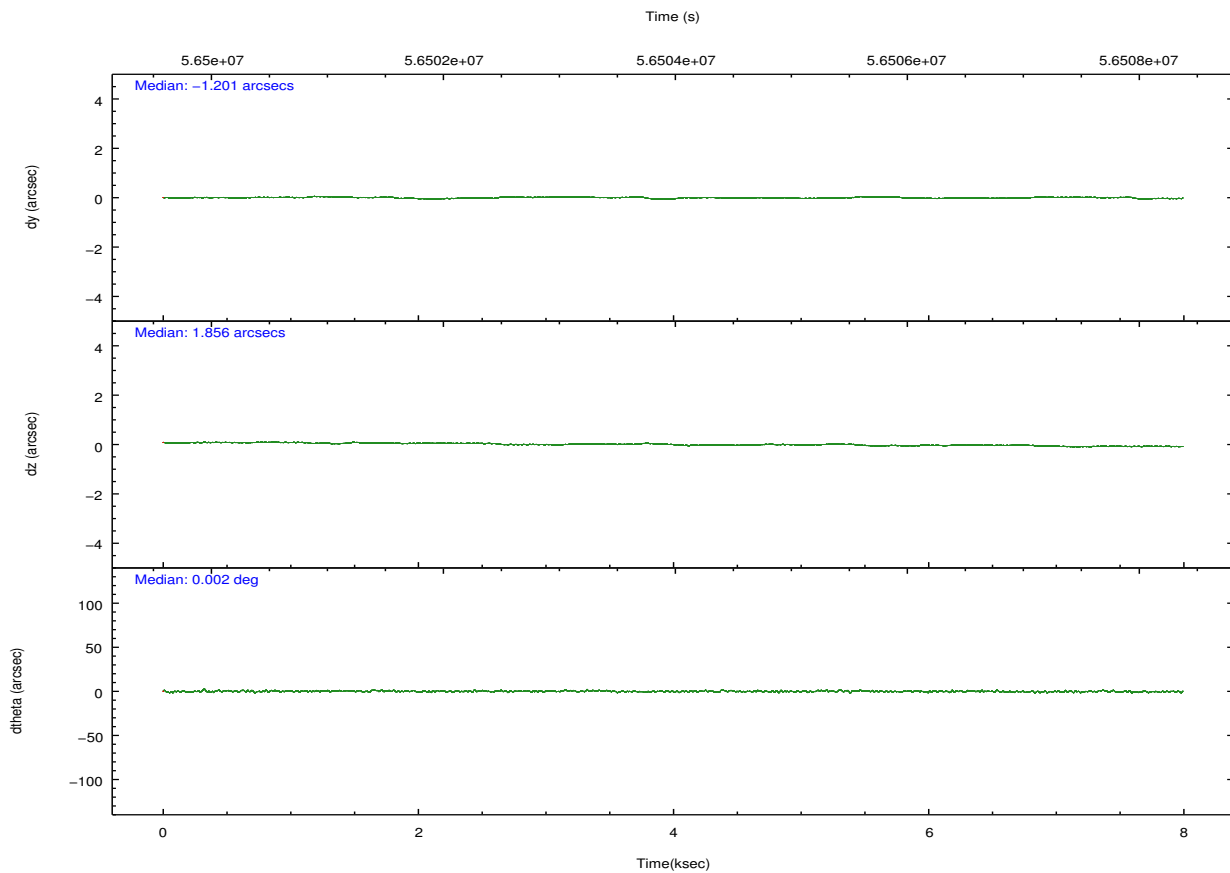
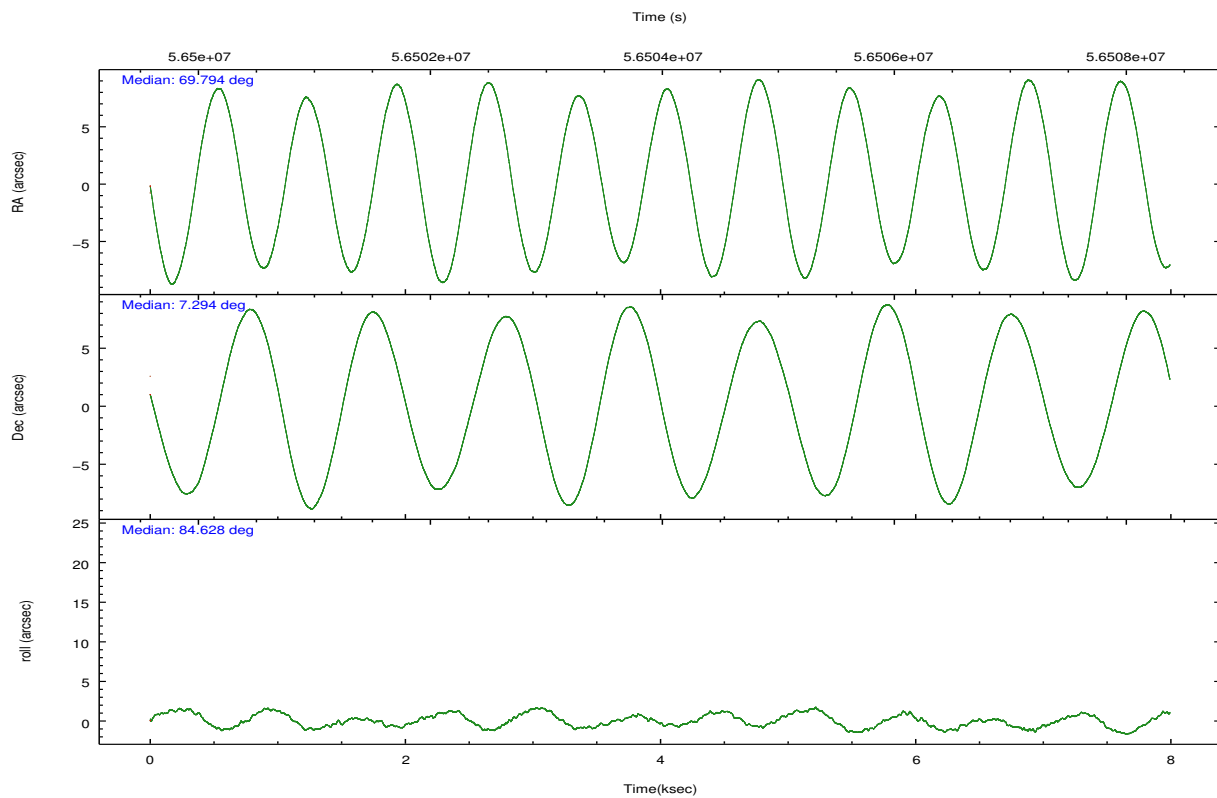
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	1313	1379	1132	3464	1276
	2%	2%	2%	5%	2%
grade 1 events	13	18	11	15	37
	0%	0%	0%	0%	0%
grade 2 events	2021	2112	2141	3760	4770
	3%	4%	3%	6%	8%
grade 3 events	402	456	308	443	1336
	0%	0%	0%	0%	2%
grade 4 events	387	432	351	410	1248
	0%	0%	0%	0%	2%
grade 5 events	1108	1116	953	1065	3550
	2%	2%	1%	1%	5%
grade 6 events	1264	1397	1203	1428	14118
	2%	2%	2%	2%	23%
grade 7 events	45332	43918	49826	50192	33189
	87%	86%	89%	82%	55%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-01237	ACIS-01237	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	69.805538	69.79418897397989	Subarray requested	NONE	NONE
Pointing Dec	7.269173	7.294590879167503	Alternating exposures requested	N	N
Pointing Roll	84.424373	84.63449434644022	Primary exposure time	0.000000	3.2
SIM focus pos (mm)	-0.782348	-0.7809083437167272			
SIM defocus (mm)	0	0.001439871863259334			
SIM translation stage pos (mm)	-233.592463	-233.5874344608287			
SIM translation stage offset (mm)	0	-0.005018542100998502			
Observation start time	56500317.184000	56499982.62284			
Observation start date	1999-10-16T22:30:53	1999-10-16T22:26:22			
Observation end time	56507977.184000	56508850.923159			
Observation end date	1999-10-17T00:38:33	1999-10-17T00:54:10			
Read mode	TIMED	TIMED			

2.3 Aspect



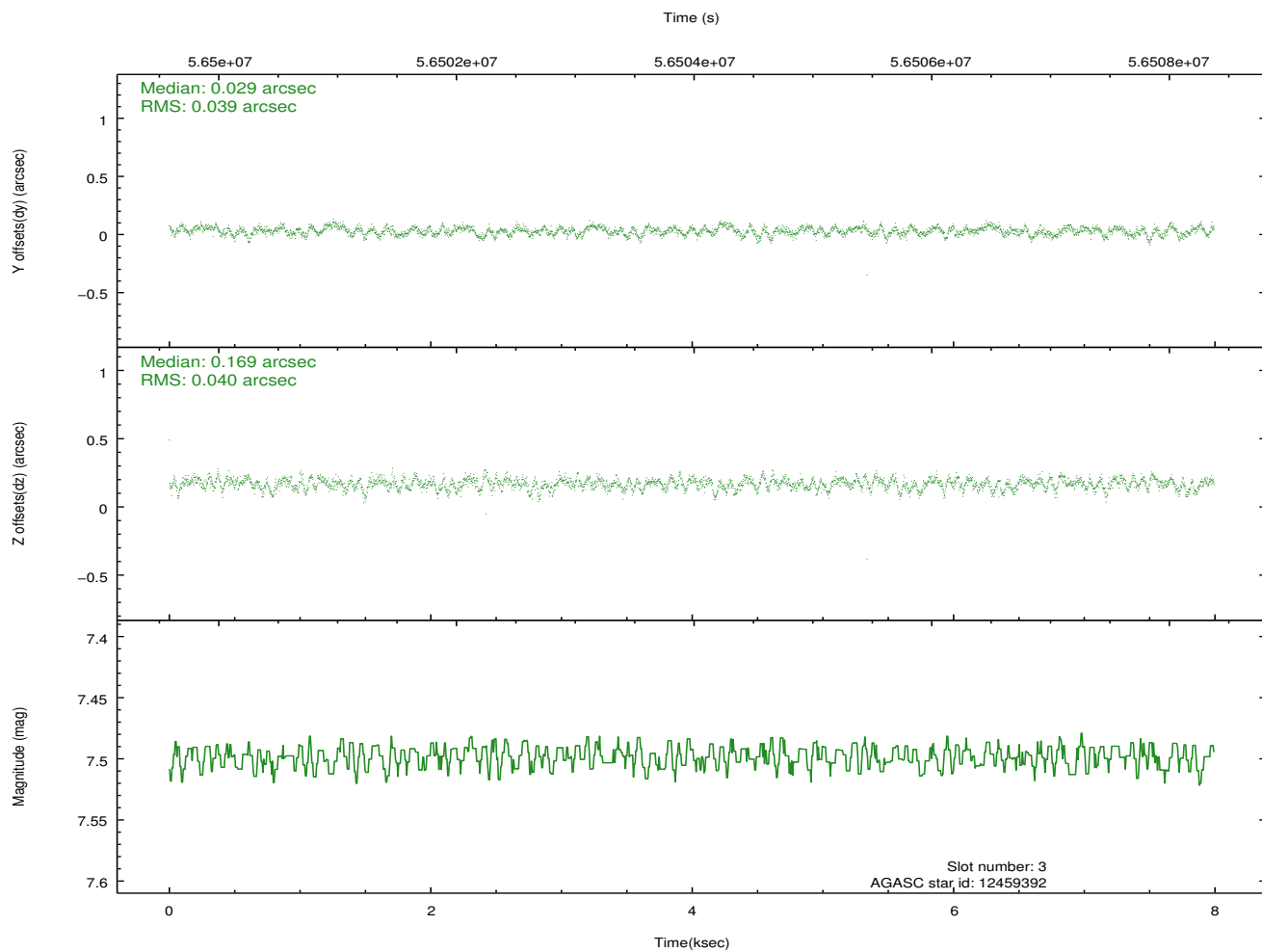
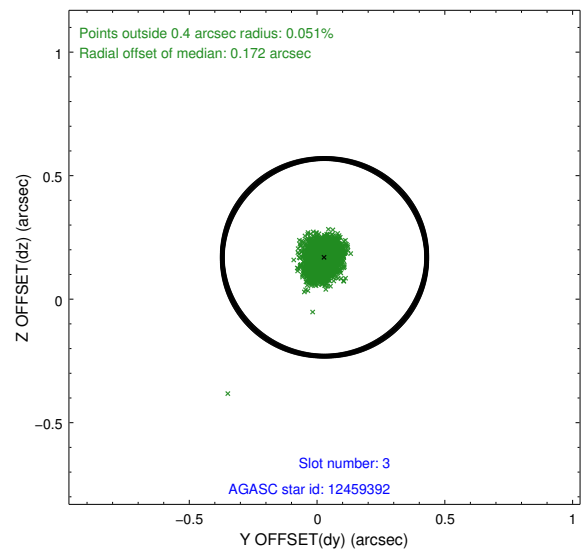
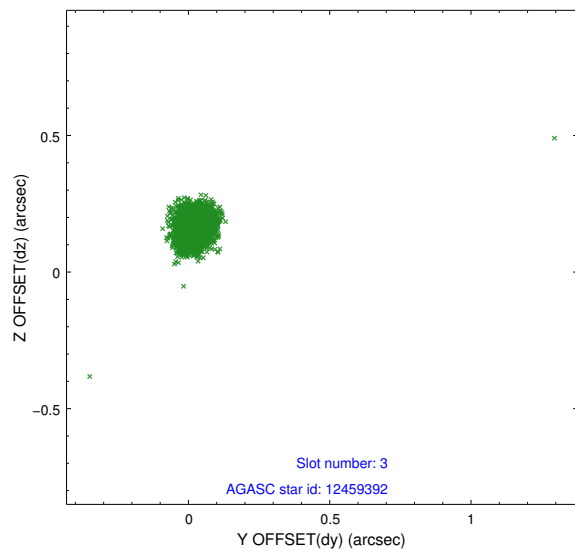


Slot Statistics

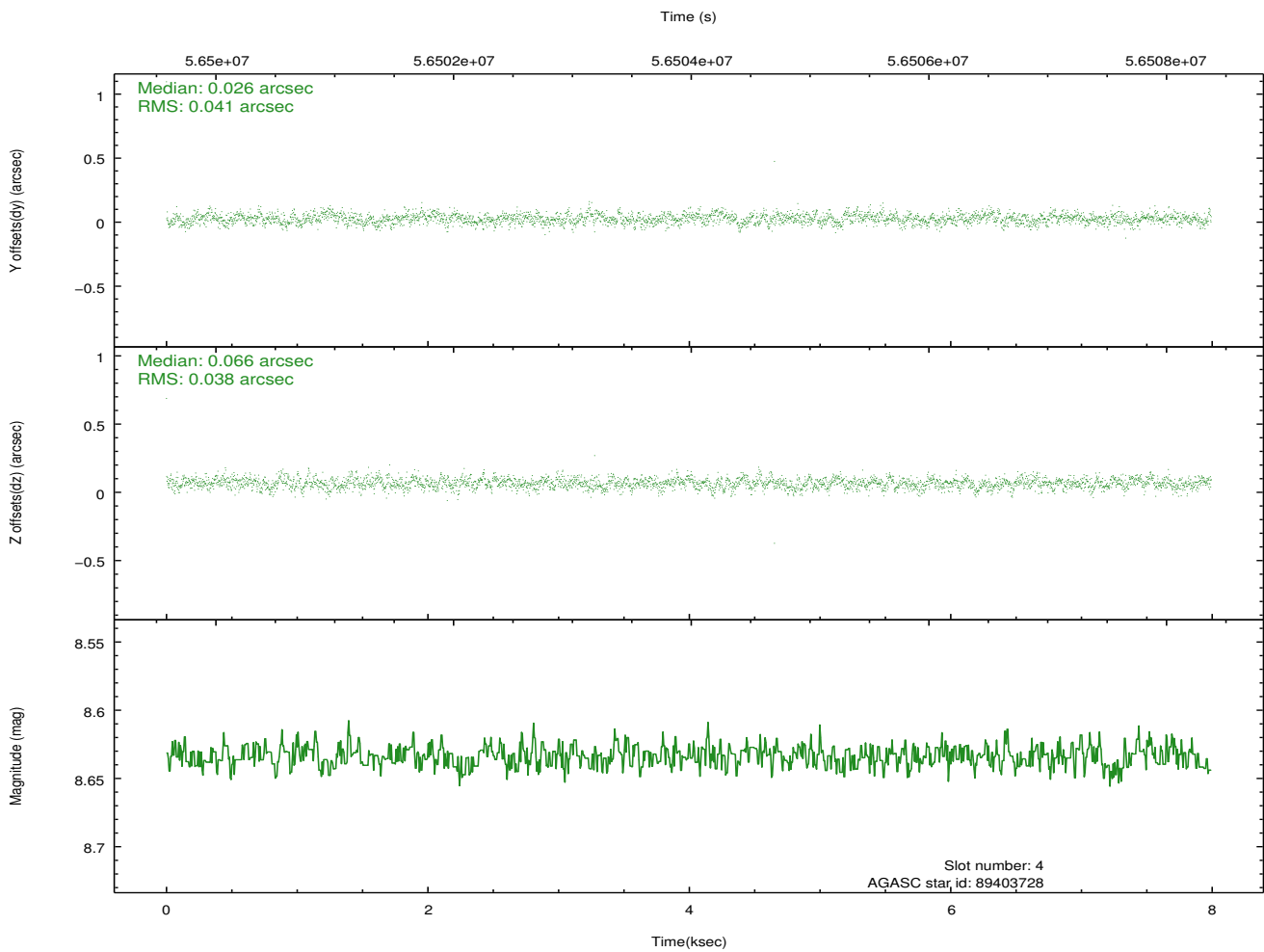
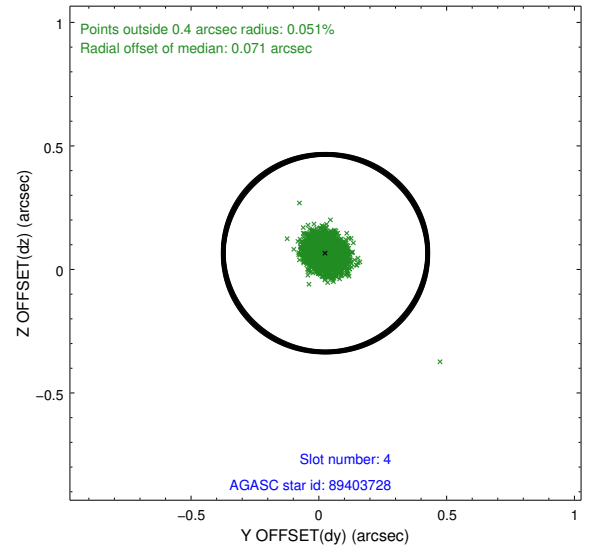
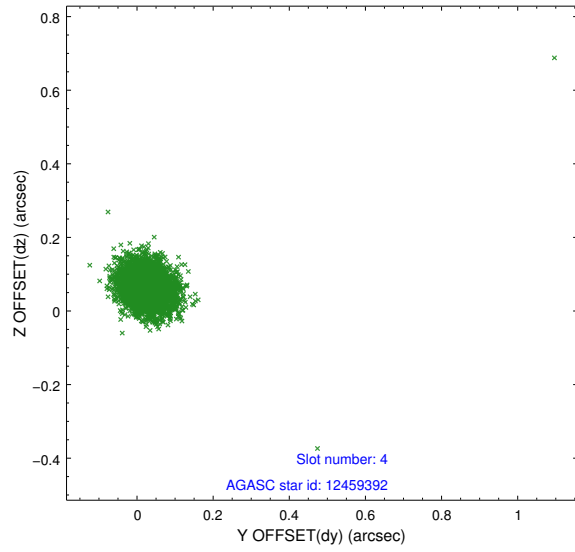
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.21	3896	-0.046	0.054	0.009	0.016	0.000000	0.000000	-753.16	-831.37
1	FID	ACIS-I-4	7.22	3900	0.097	0.020	0.006	0.011	0.000000	0.000000	2161.05	1074.43
2	FID	ACIS-I-5	7.23	3899	-0.152	-0.004	0.009	0.015	0.000000	0.000000	-1806.61	1072.84
3	GUIDE	12459392	7.50	3900	0.029	0.169	0.054	0.089	70.275390	6.631326	-2119.81	-1894.70
4	GUIDE	89403728	8.63	3896	0.026	0.066	0.054	0.089	69.872880	7.548227	1024.01	-141.18
5	GUIDE	89400656	8.85	3899	-0.099	0.134	0.094	0.152	70.426351	7.827138	2217.60	-2007.37
6	GUIDE	89404128	9.17	3897	-0.114	-0.146	0.088	0.138	69.331288	7.508166	694.29	1768.47
7	GUIDE	12330408	9.20	3899	0.157	-0.225	0.102	0.161	69.191517	6.828920	-1787.87	2031.37

2.4 Star Slots

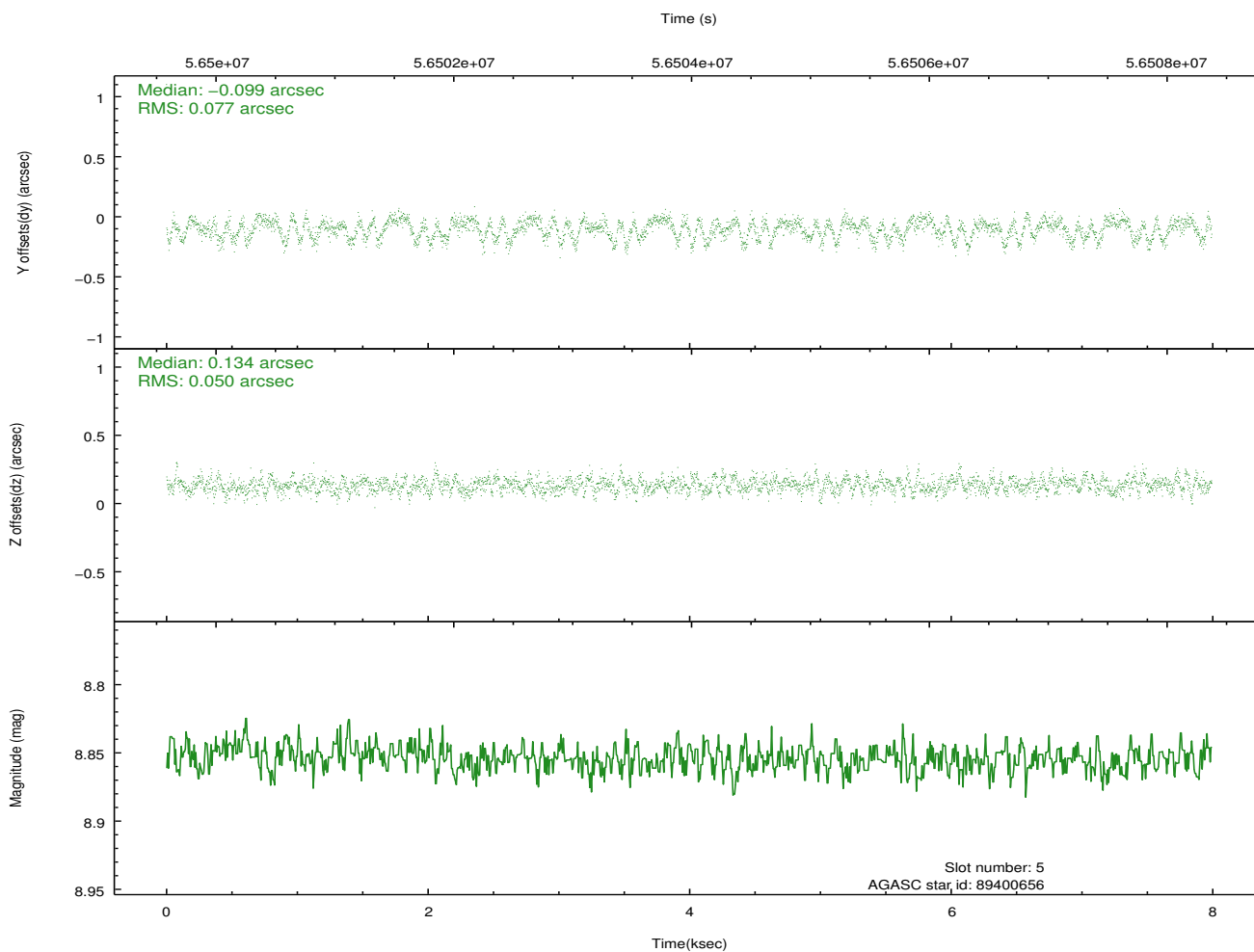
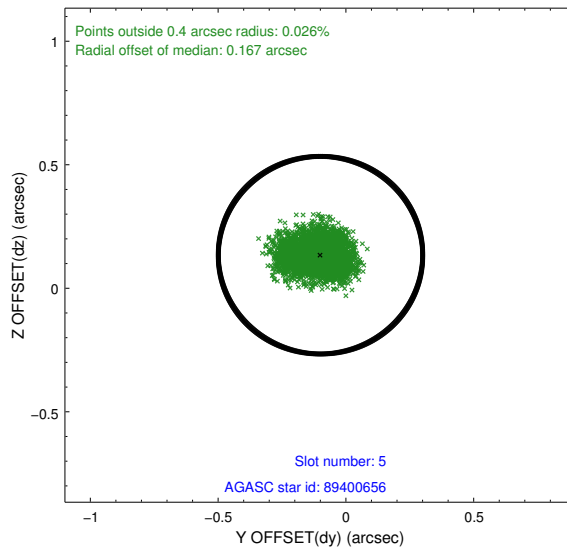
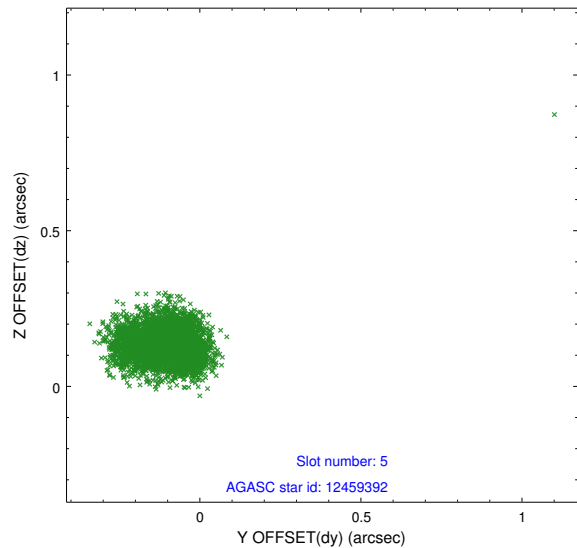
2.4.1 Slot 3



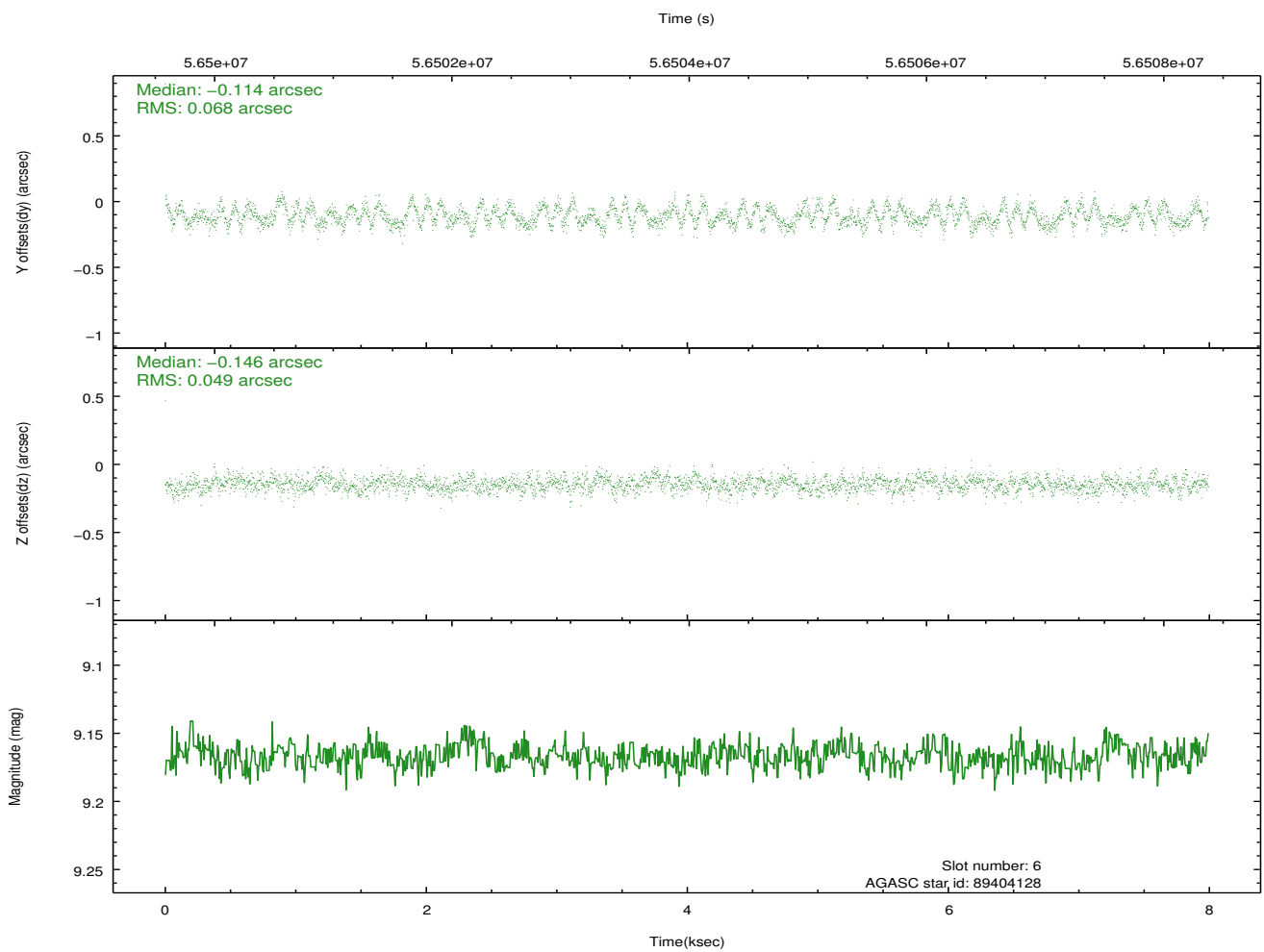
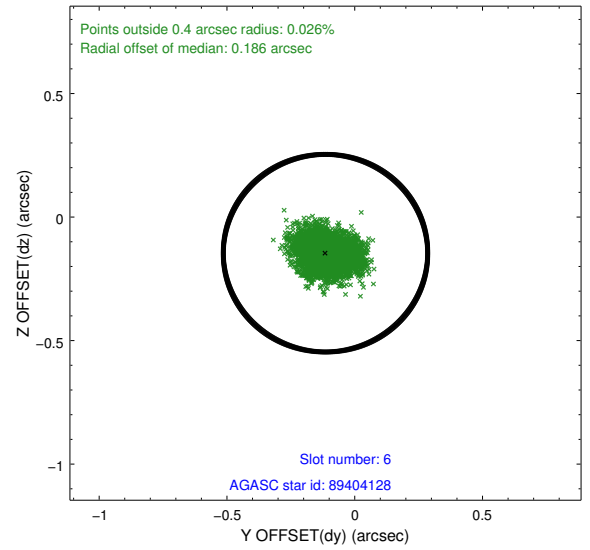
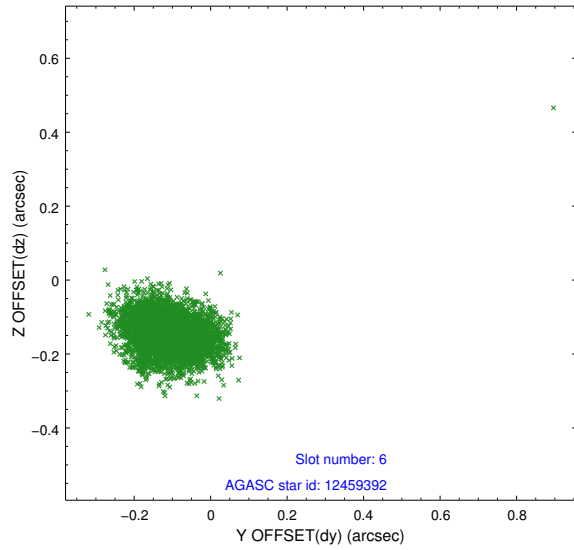
2.4.2 Slot 4



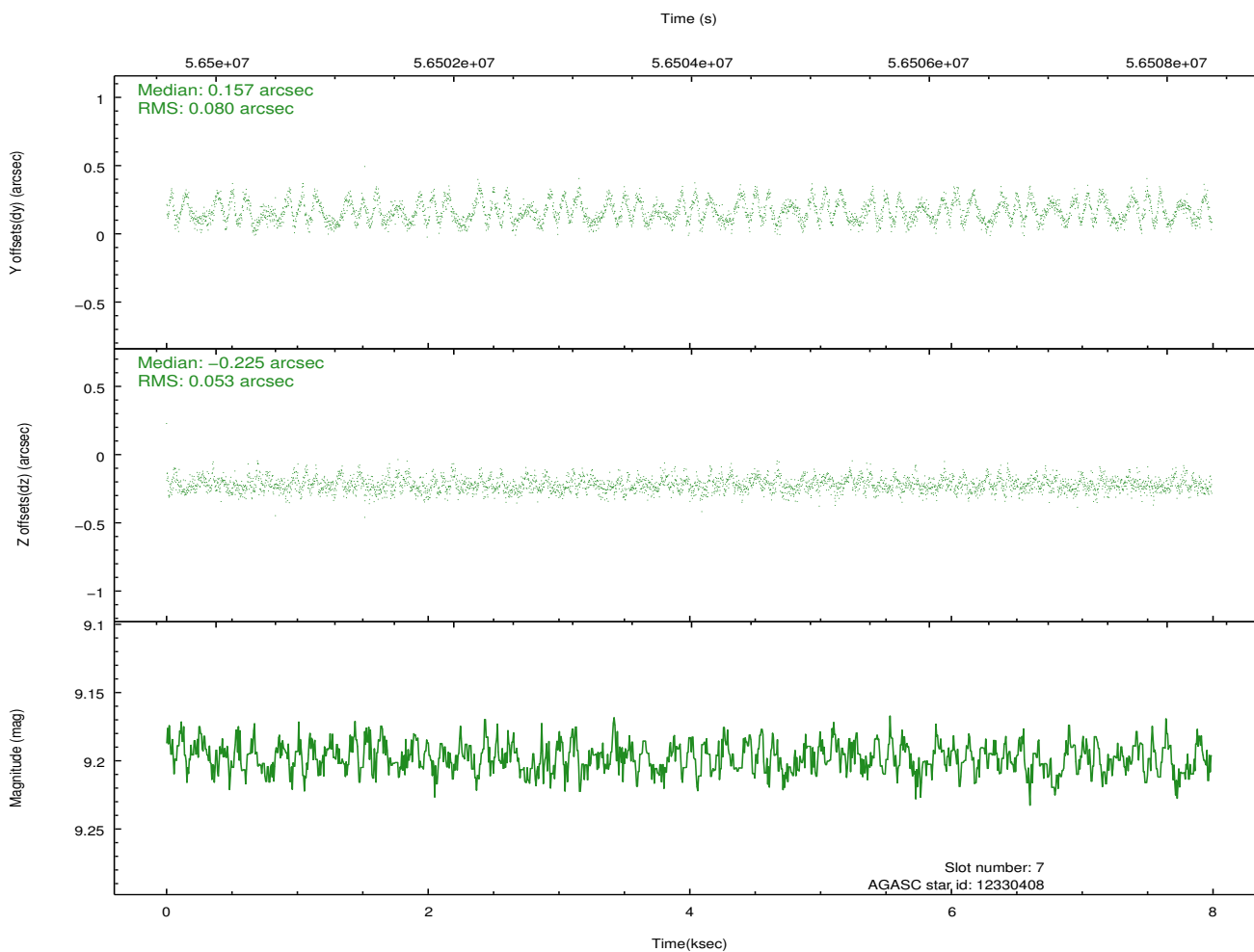
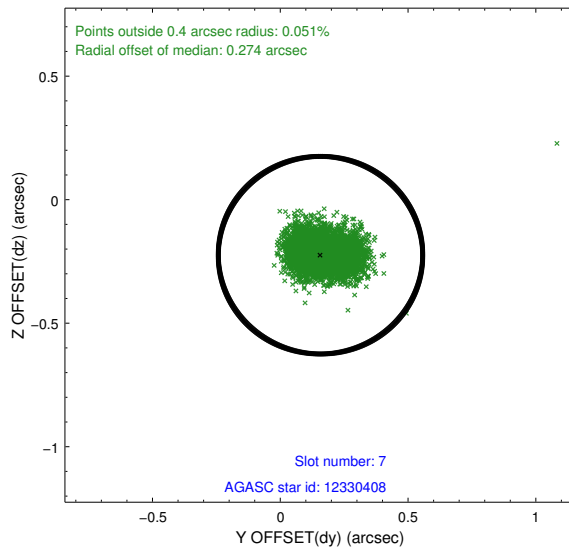
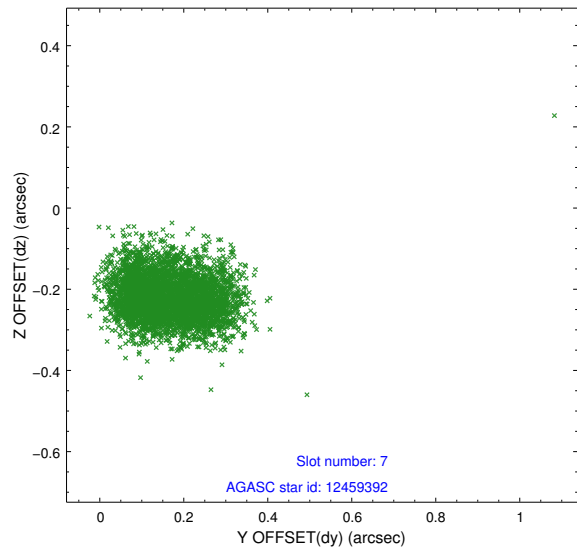
2.4.3 Slot 5



2.4.4 Slot 6

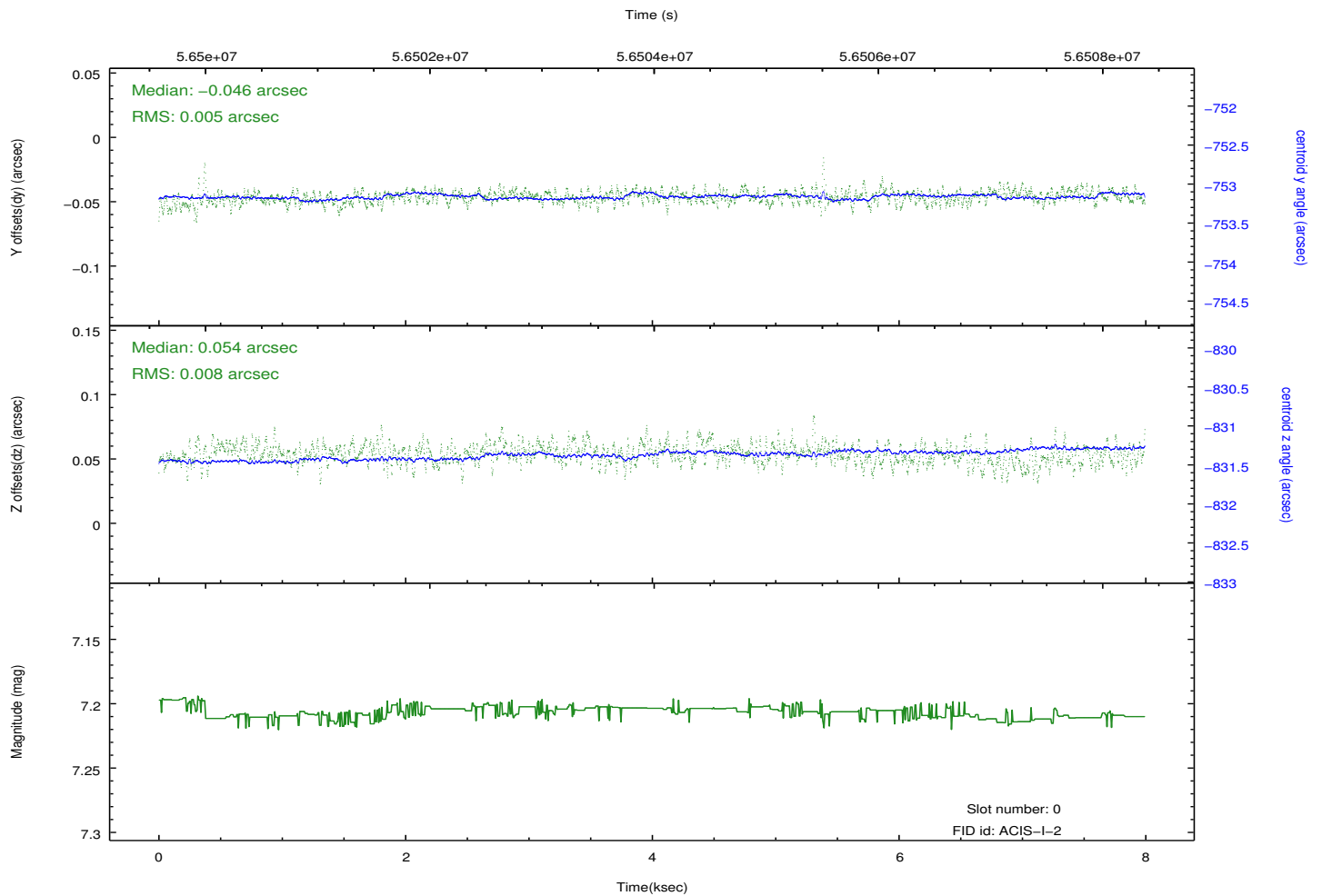
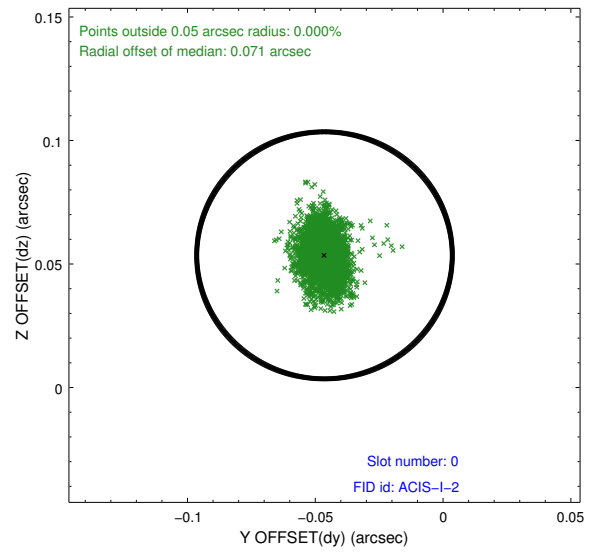
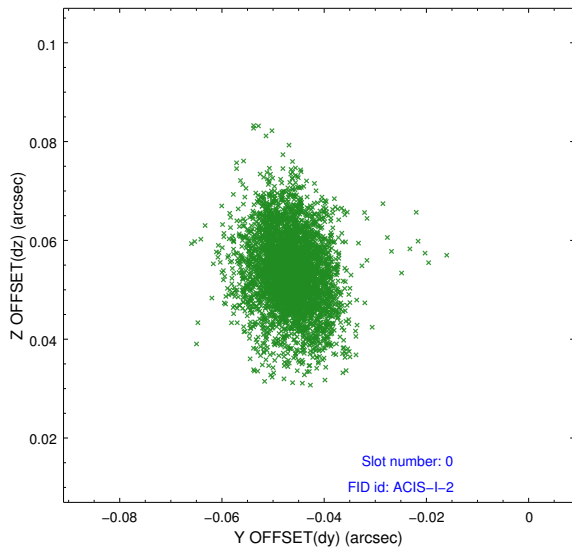


2.4.5 Slot 7

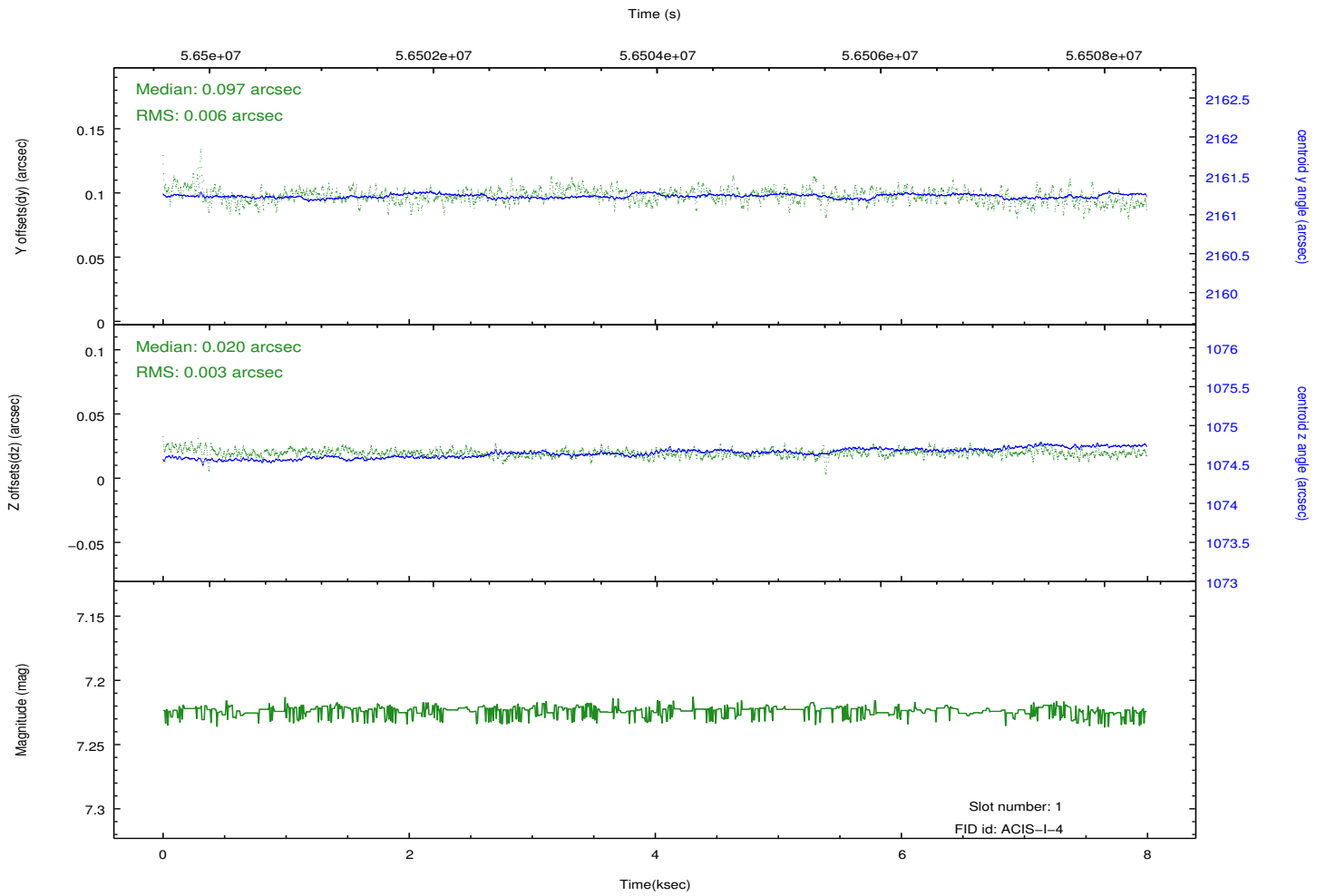
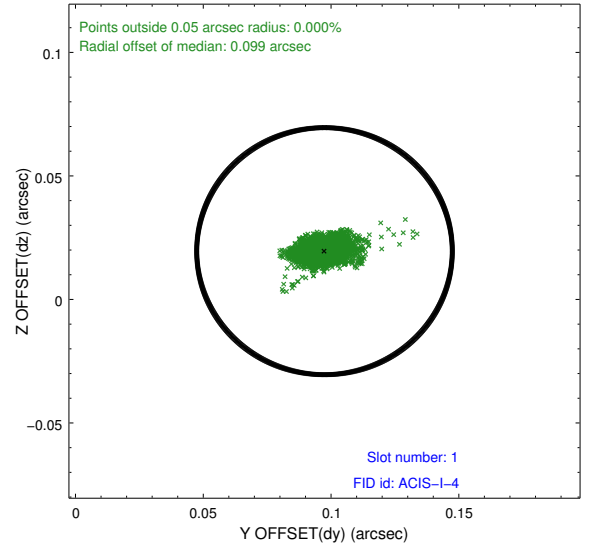
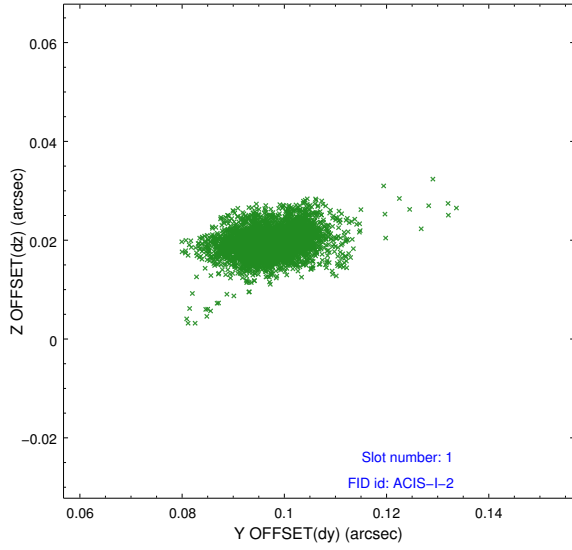


2.5 FID Slots

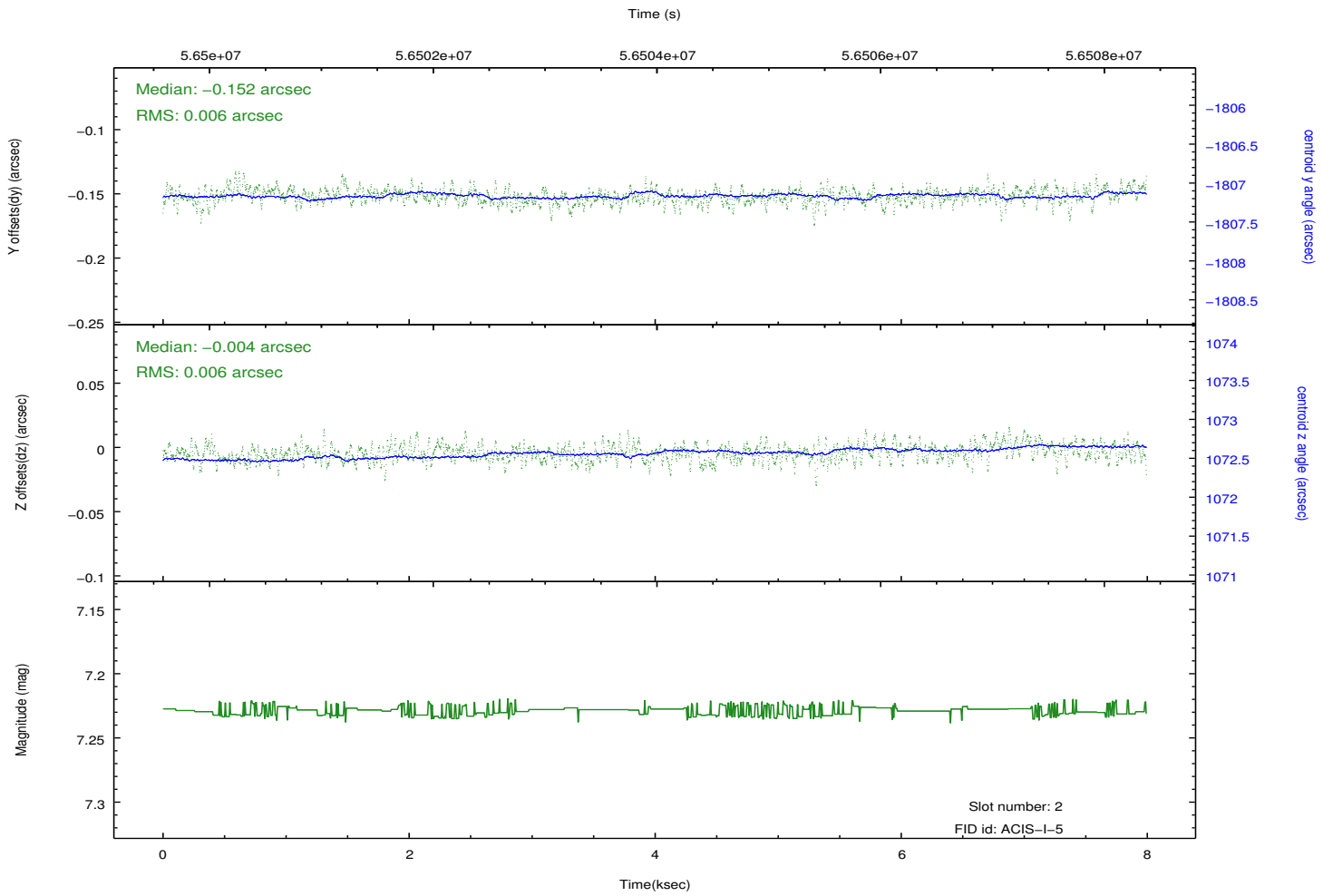
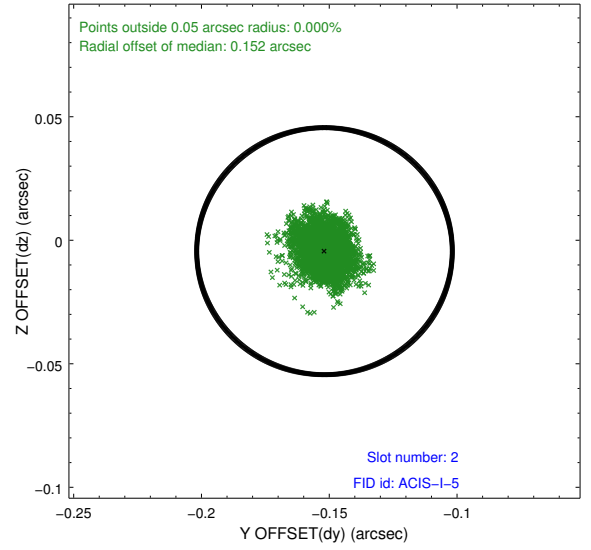
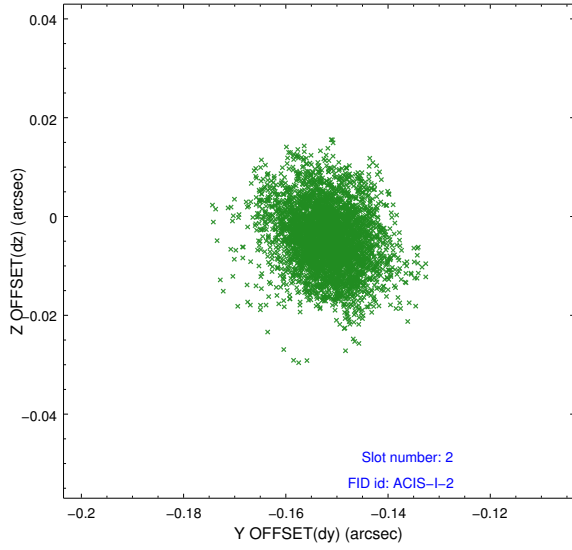
2.5.1 Slot 0



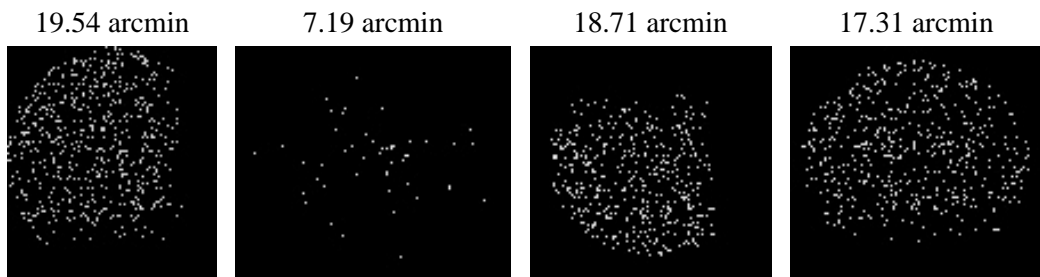
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.01.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.393

A.2 Comments

The focal plane temperature is approximately -110C 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.