

V&V Reference Report

L2 ASCDS Version : 8.1.1

Observation 1506 - L2 Version 4
Chandra X-Ray Center

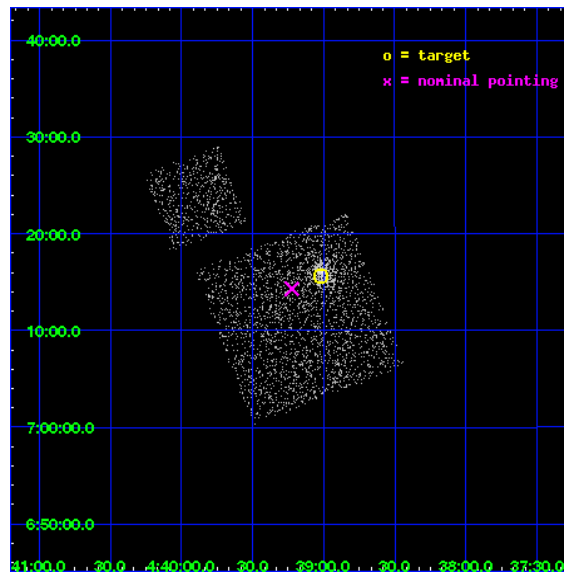
L2 Processing Date : Nov 25 2009

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1 Front

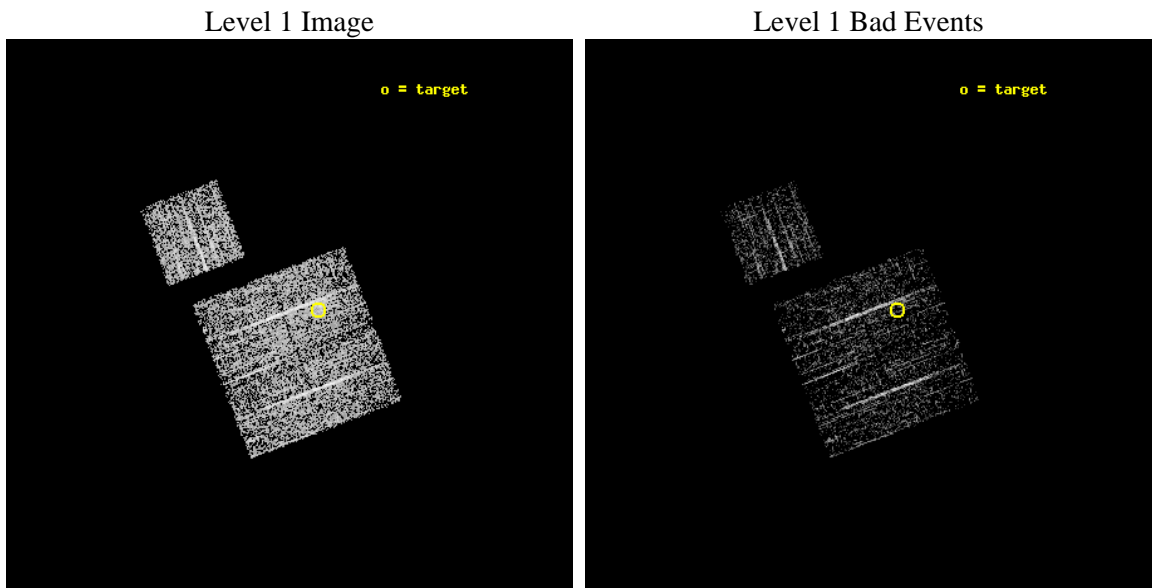
seq_num	800034	Sequence number
obs_id	1506	Observation id
title	DETERMINATION OF H0/Q0	Proposal title
observer	DR. LEON VANSPEYBROECK	Principal investigator
object	RX J0439.0+0715	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	69.755	Observer's specified target RA
dec_targ	7.26	Observer's specified target Dec
ra_nom	69.805860272518	Nominal RA
dec_nom	7.2384967061284	Nominal Dec
roll_nom	339.23782875647	Nominal Roll
revision	4	Processing version of data
ontime	856.37929999083	Sum of GTIs [s]
livetime	845.53530964464	Livetime [s]
ontime0	856.54345998913	Sum of GTIs [s]
ontime1	856.50241998583	Sum of GTIs [s]
ontime2	856.46137998998	Sum of GTIs [s]
ontime3	856.37929999083	Sum of GTIs [s]
ontime6	856.42033998668	Sum of GTIs [s]
l2events	3664	Number of level 2 events



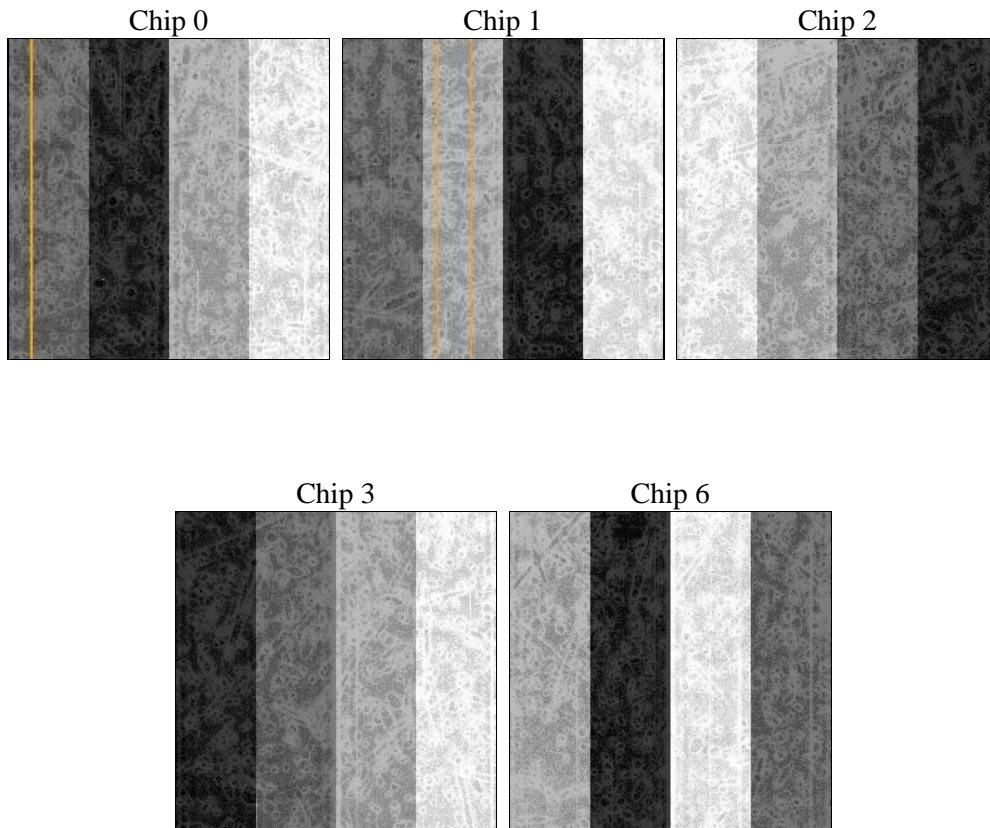
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	1680.000000	Scheduled observation exposure time
ascdsver	8.1.1	ASCDS version number	ontime	856.37929999083	Sum of GTIs [s]
caldbver	4.1.4	 	ontime0	856.54345998913	Sum of GTIs [s]
date	2009-11-25T12:41:19	Date and time of file creation	ontime1	856.50241998583	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	856.46137998998	Sum of GTIs [s]
			ontime3	856.37929999083	Sum of GTIs [s]
			ontime6	856.42033998668	Sum of GTIs [s]
			l1events	38384	Number of level 1 events

2.1.4 Events

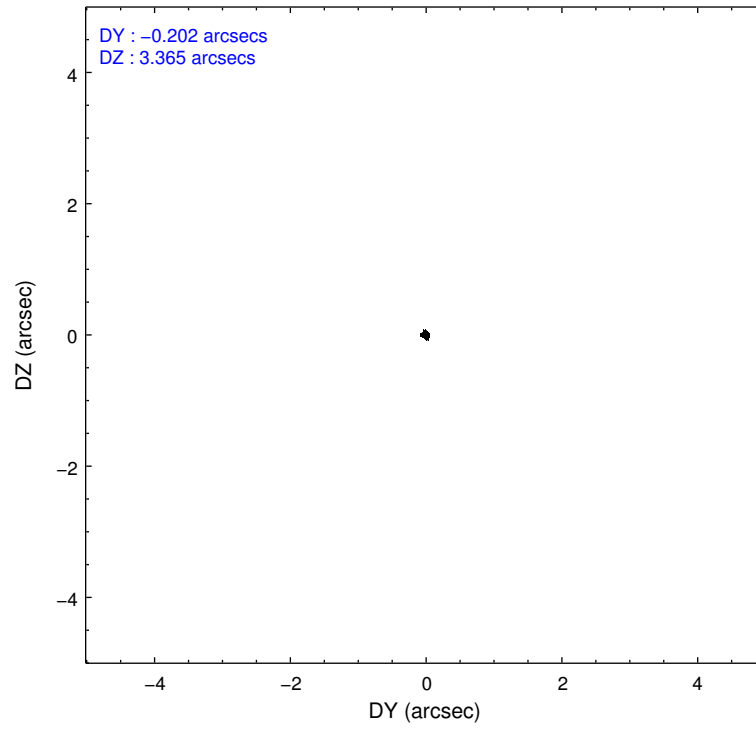
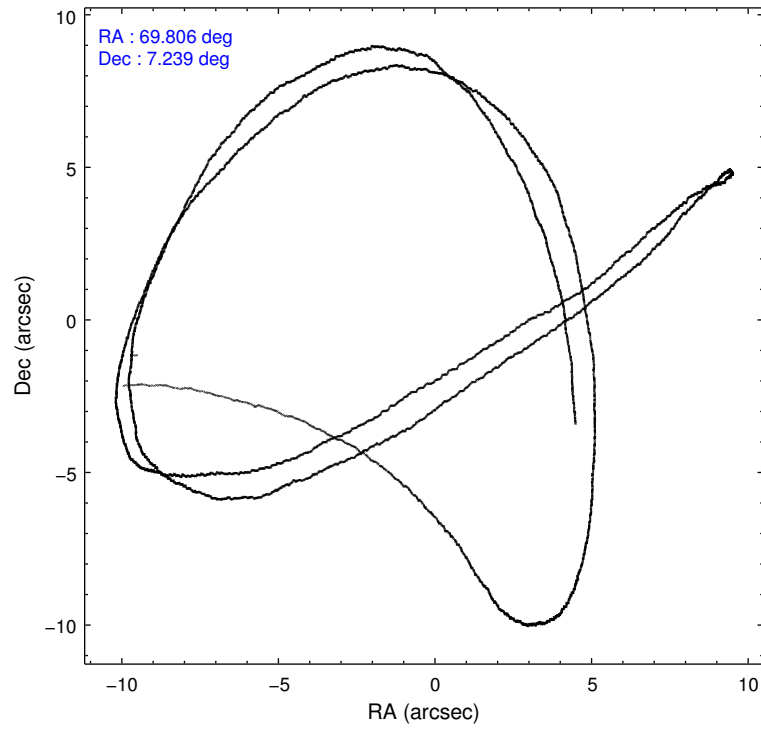
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	7561	7027	7736	7894	8166
rejected events	6886	6312	7040	6676	7489
rejected %	91%	89%	91%	84%	91%

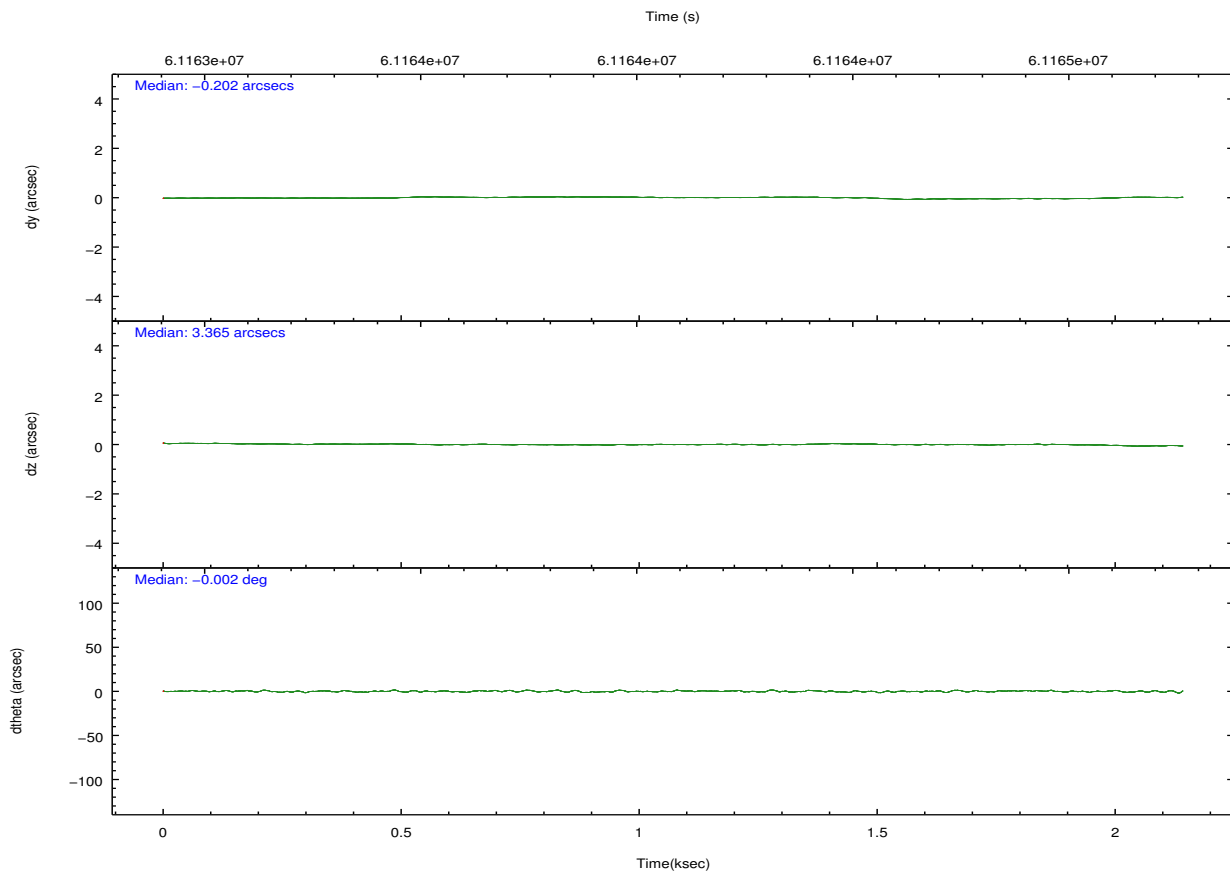
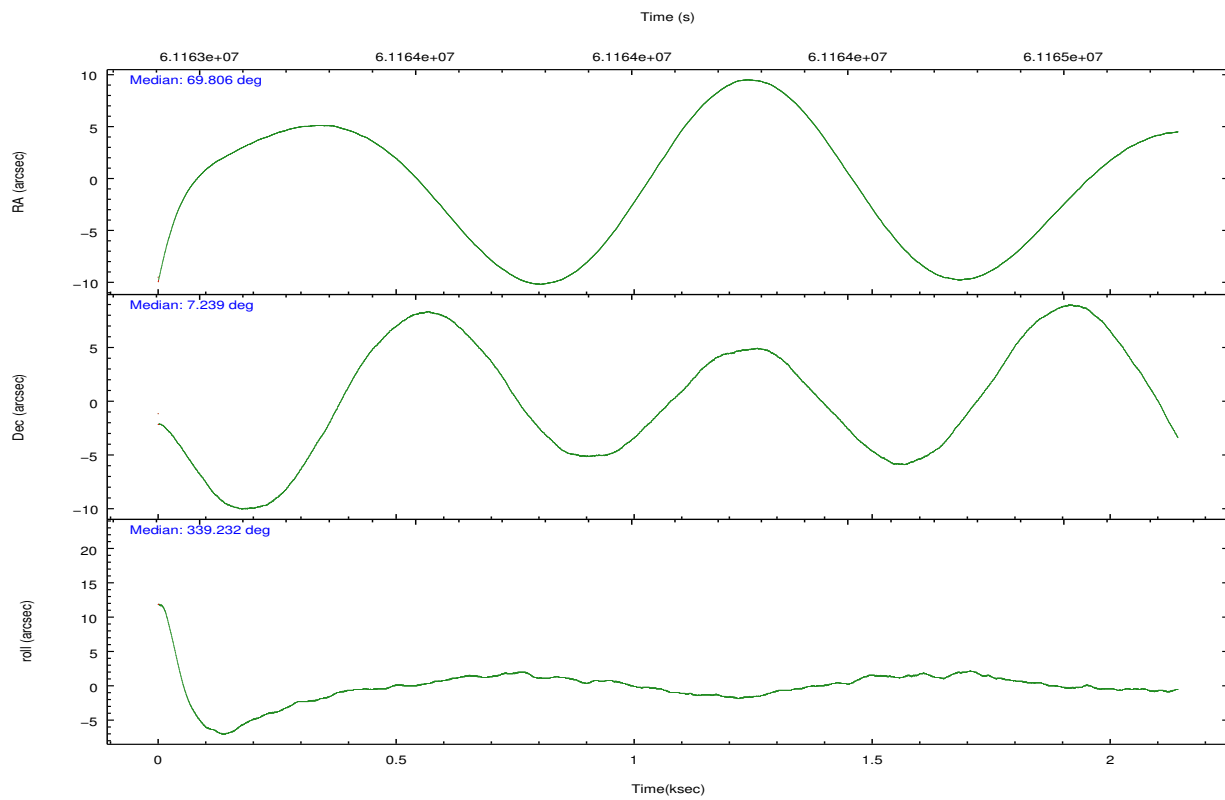
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	162	148	148	491	153
	2%	2%	1%	6%	1%
grade 1 events	1	0	0	0	5
	0%	0%	0%	0%	0%
grade 2 events	245	275	287	440	249
	3%	3%	3%	5%	3%
grade 3 events	54	67	40	45	49
	0%	0%	0%	0%	0%
grade 4 events	45	45	47	55	41
	0%	0%	0%	0%	0%
grade 5 events	138	186	117	132	150
	1%	2%	1%	1%	1%
grade 6 events	171	182	178	204	195
	2%	2%	2%	2%	2%
grade 7 events	6745	6124	6919	6527	7324
	89%	87%	89%	82%	89%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-01236	ACIS-01236	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
Pointing RA	69.778216	69.8058602725178	Subarray requested	NONE	NONE
Pointing Dec	7.234394	7.238496706128437	Alternating exposures requested	N	N
Pointing Roll	339.032510	339.2378287564712	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	-225.7829997647864			
SIM translation stage offset (mm)	0	-7.809453238143249			
Observation start time	61163475.184000	61162294.203719			
Observation start date	1999-12-09T21:50:11	1999-12-09T21:31:34			
Observation end time	61165155.184000	61165771.003845			
Observation end date	1999-12-09T22:18:11	1999-12-09T22:29:31			
Read mode	TIMED	TIMED			

2.3 Aspect



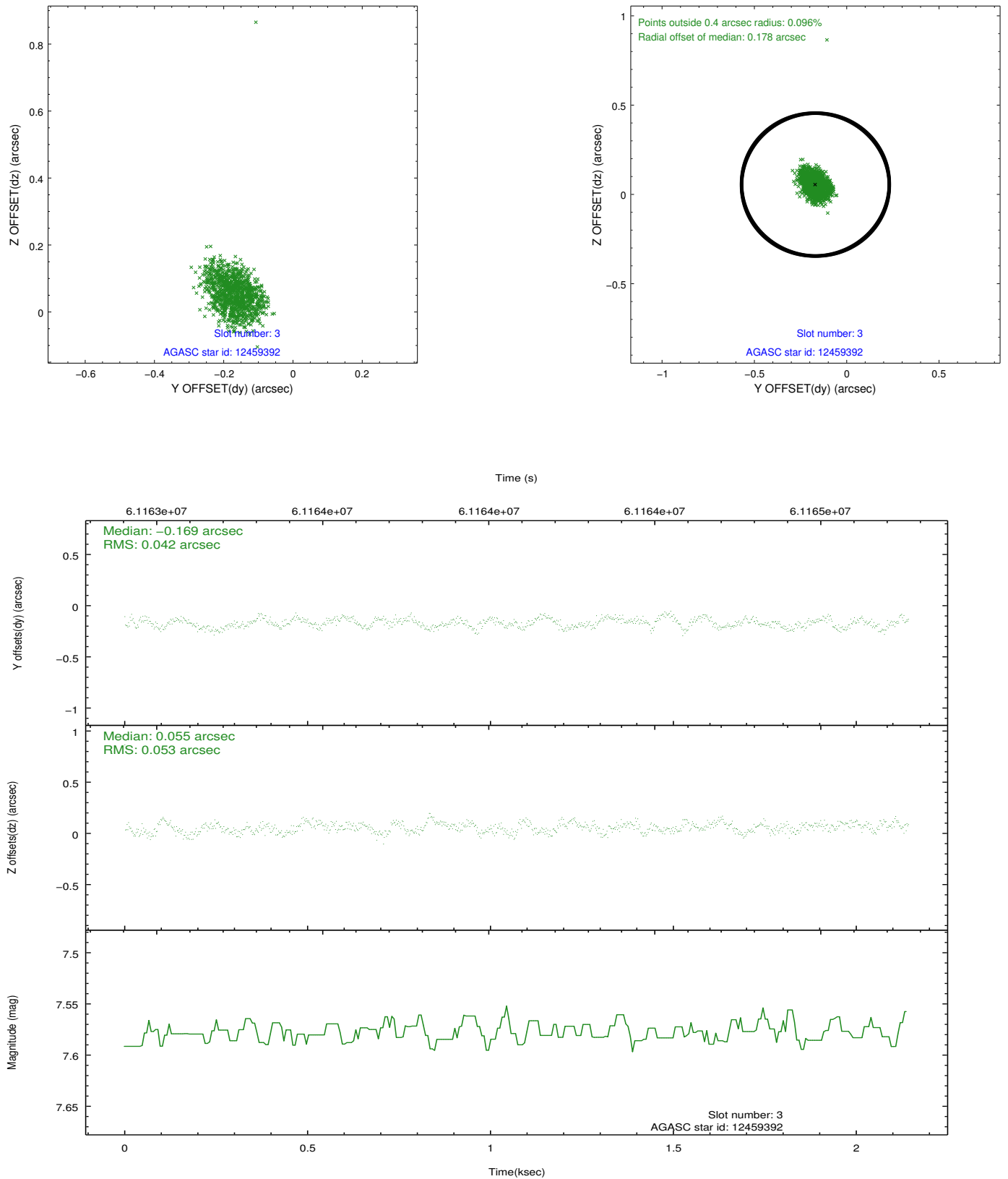


Slot Statistics

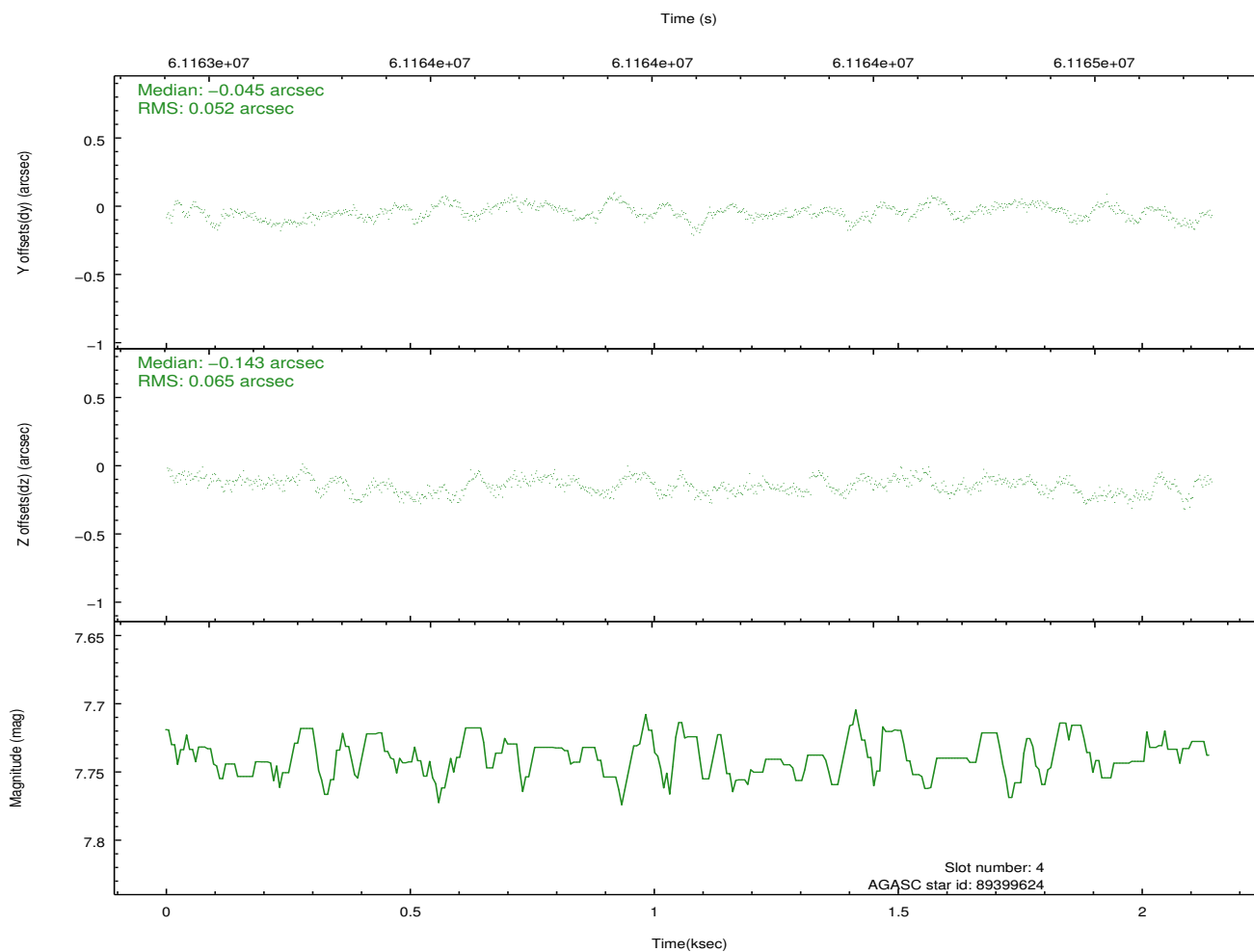
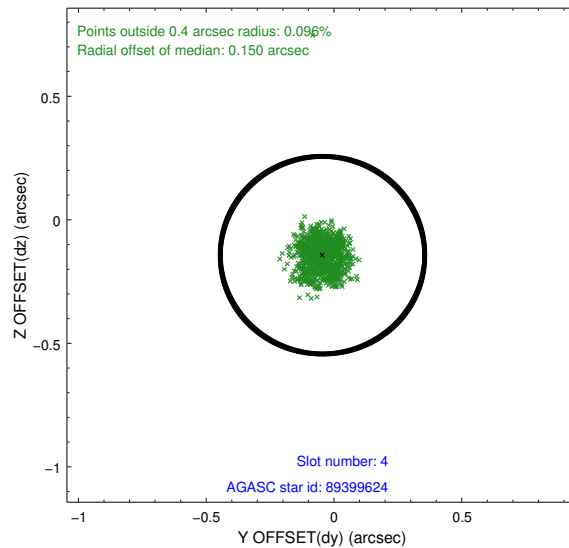
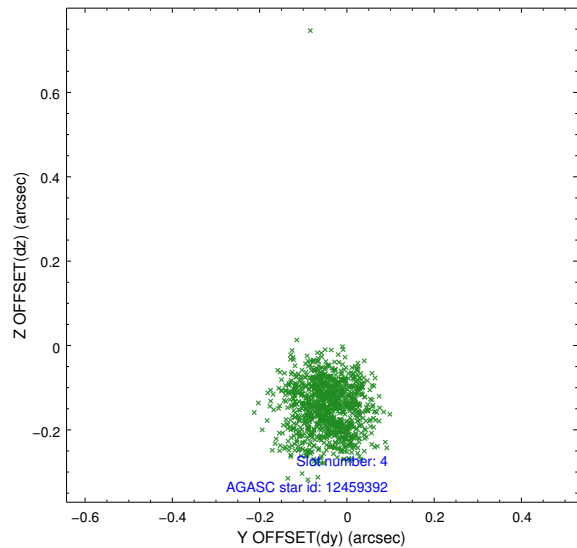
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.19	1046	-0.057	0.030	0.008	0.014	0.000000	0.000000	-754.69	-992.28
1	FID	ACIS-I-4	7.21	1046	-0.003	0.031	0.005	0.010	0.000000	0.000000	2158.73	912.98
2	FID	ACIS-I-5	7.23	1046	-0.041	0.007	0.008	0.013	0.000000	0.000000	-1806.23	911.45
3	GUIDE	12459392	7.58	1046	-0.169	0.055	0.068	0.105	70.275390	6.631326	2436.88	-1390.11
4	GUIDE	89399624	7.74	1046	-0.045	-0.143	0.087	0.132	70.094205	7.797322	329.34	2294.45
5	GUIDE	89404128	9.18	1046	0.052	-0.011	0.075	0.119	69.331288	7.508166	-1841.99	352.12
6	GUIDE	12459672	9.46	1045	0.125	0.038	0.080	0.130	69.814486	7.028987	384.20	-643.85
7	GUIDE	12325224	9.55	1045	0.029	0.059	0.097	0.154	69.366999	7.120637	-1224.73	-908.27

2.4 Star Slots

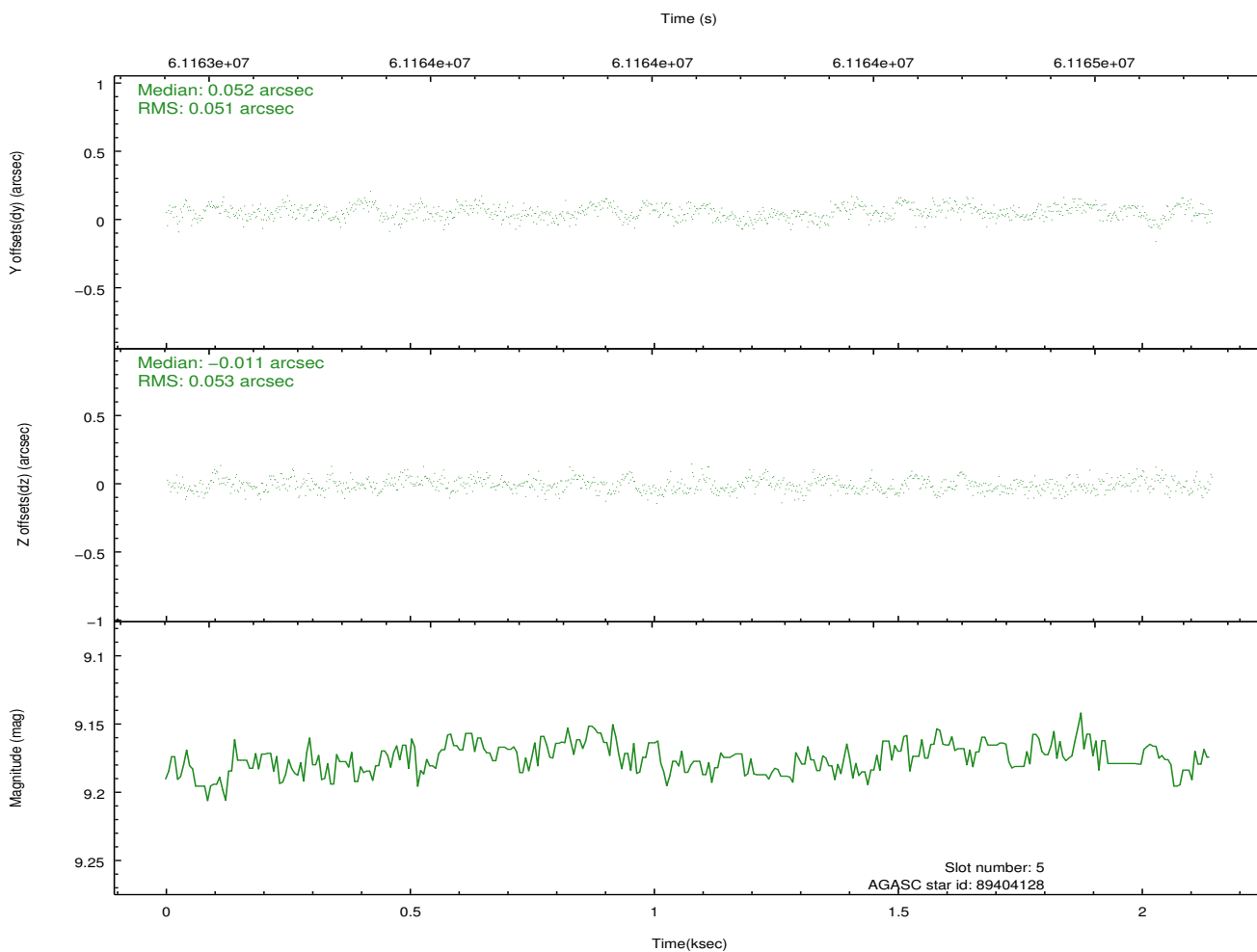
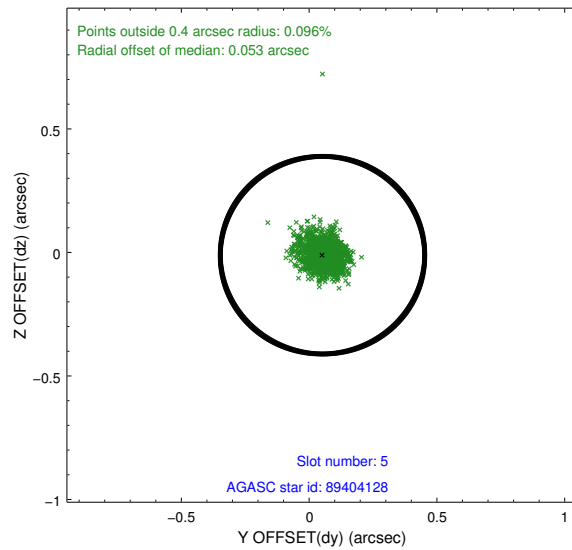
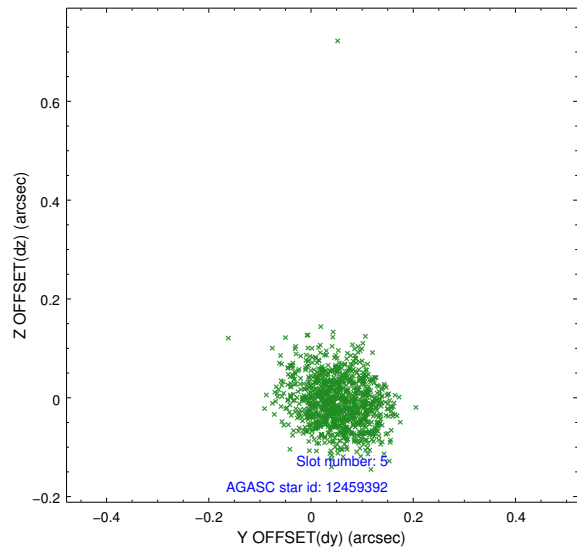
2.4.1 Slot 3



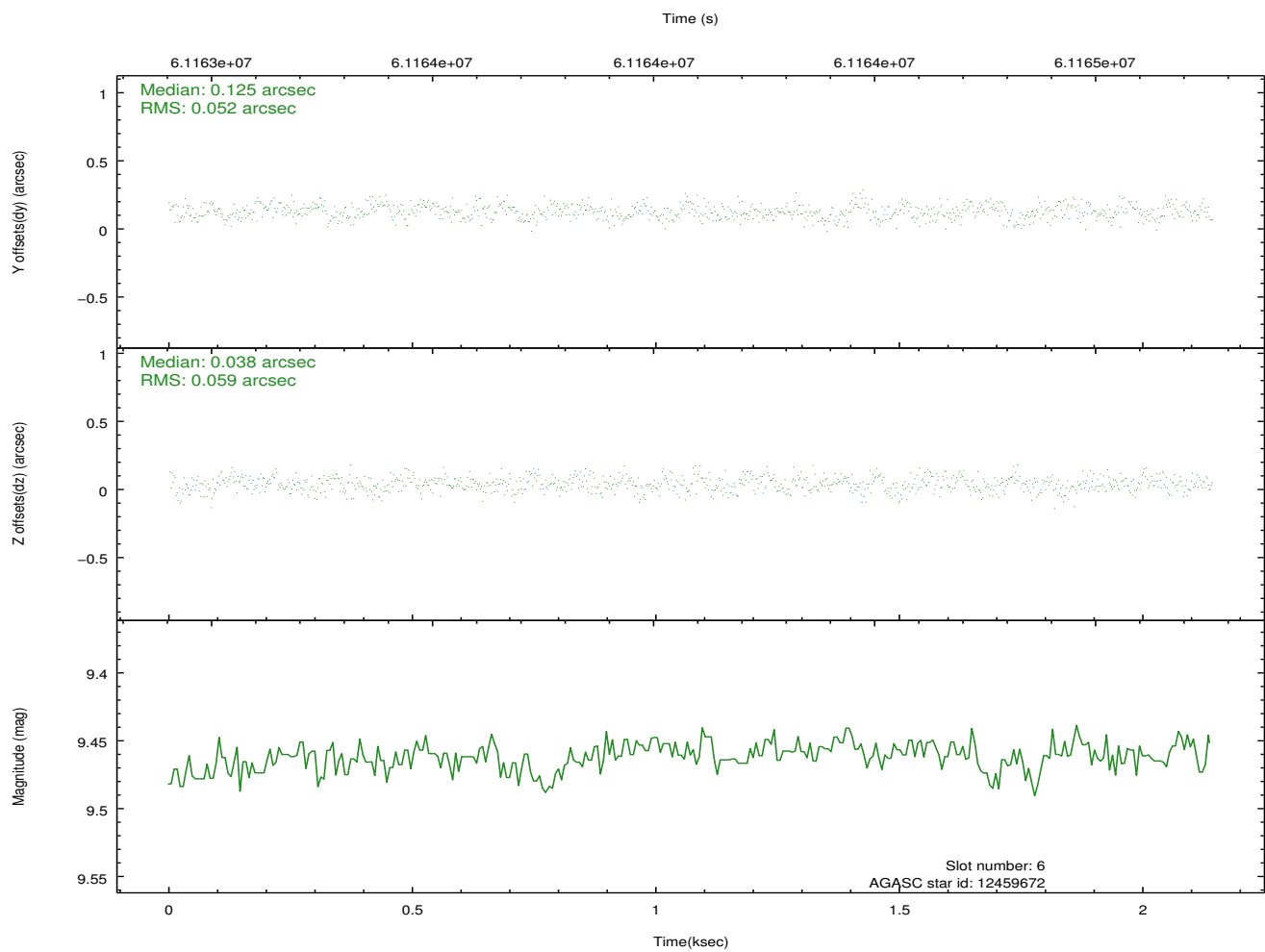
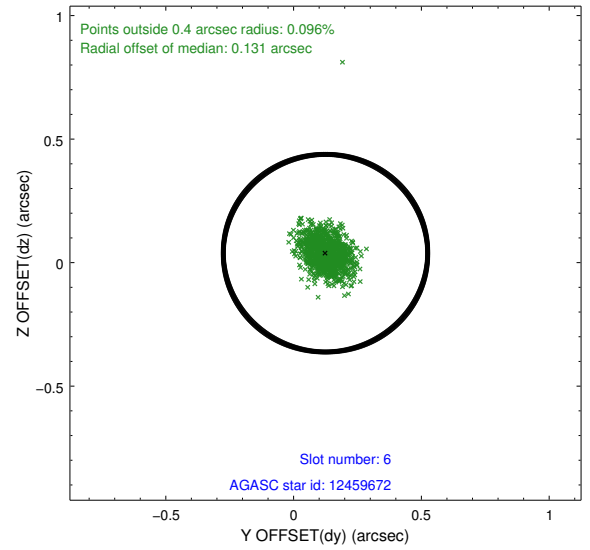
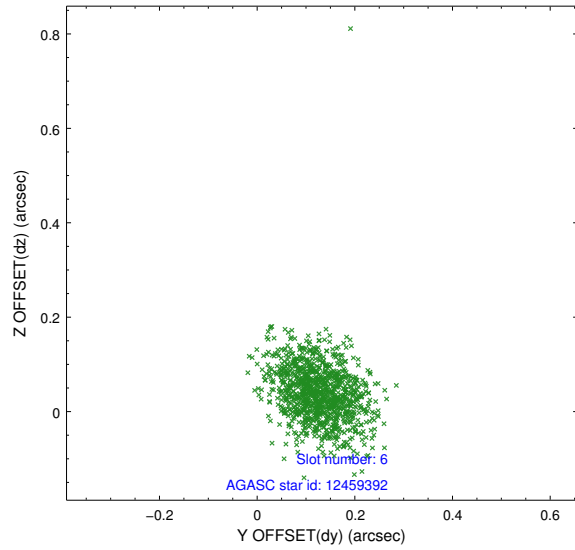
2.4.2 Slot 4



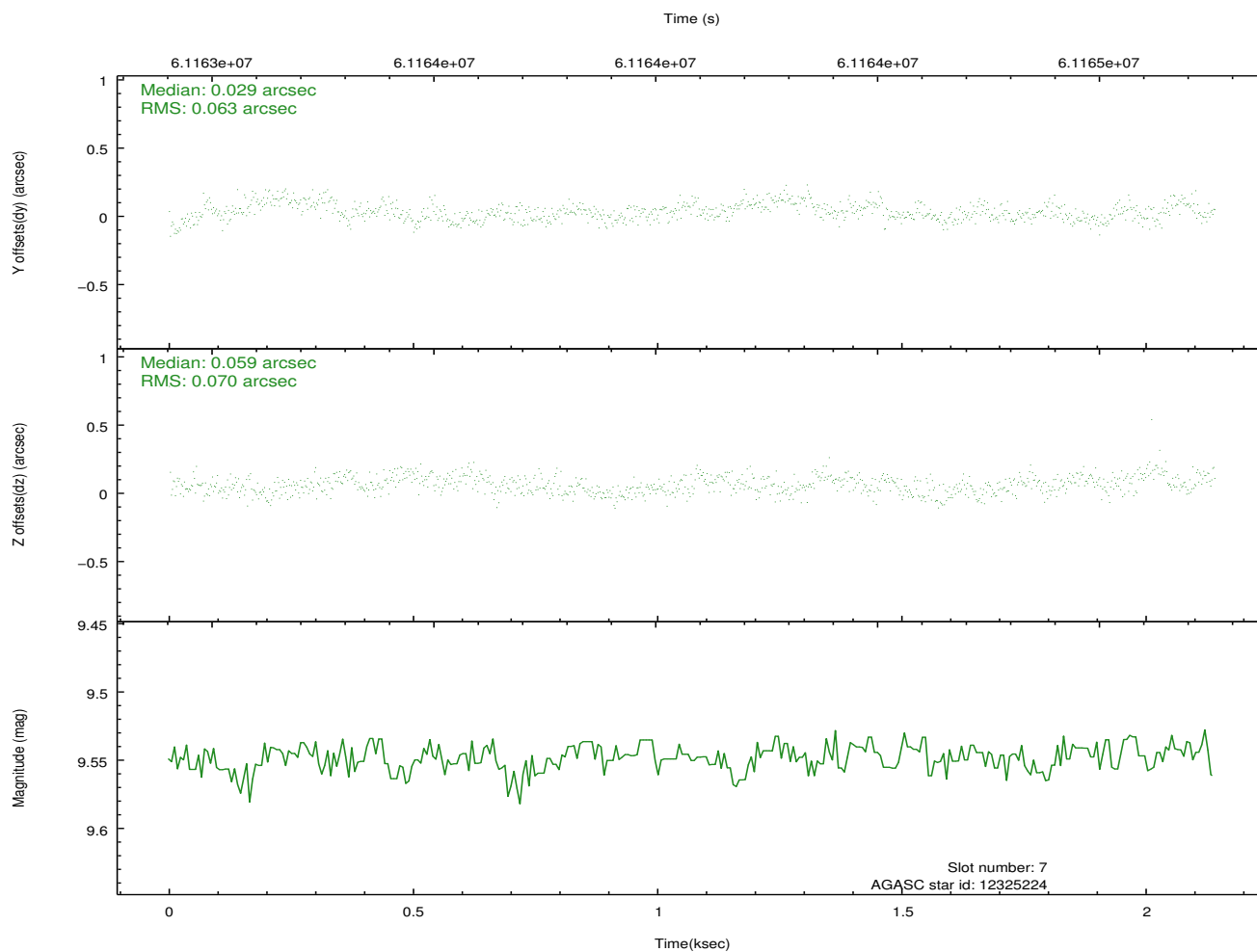
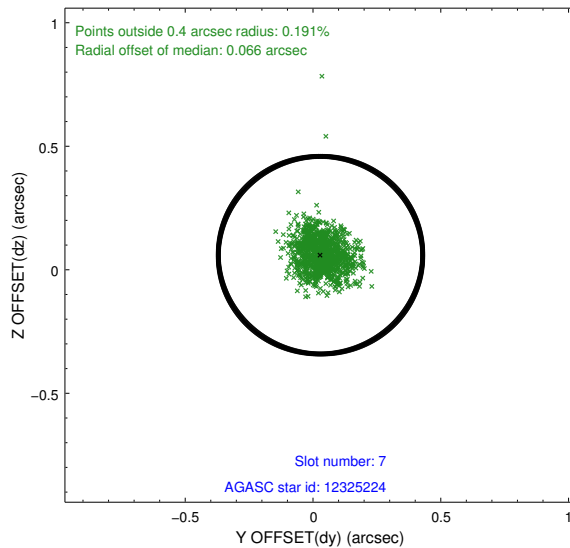
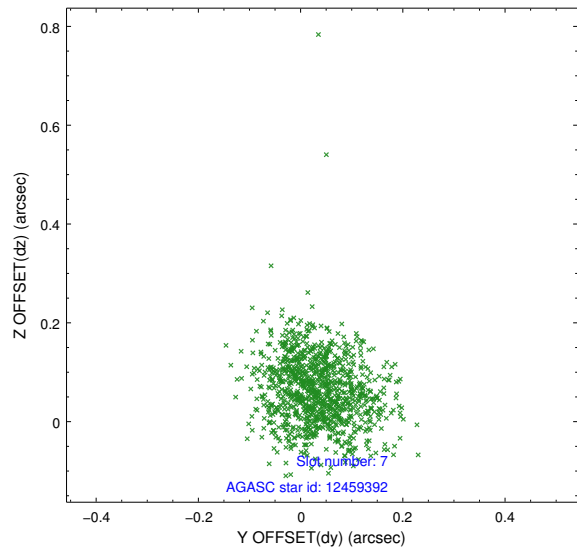
2.4.3 Slot 5



2.4.4 Slot 6

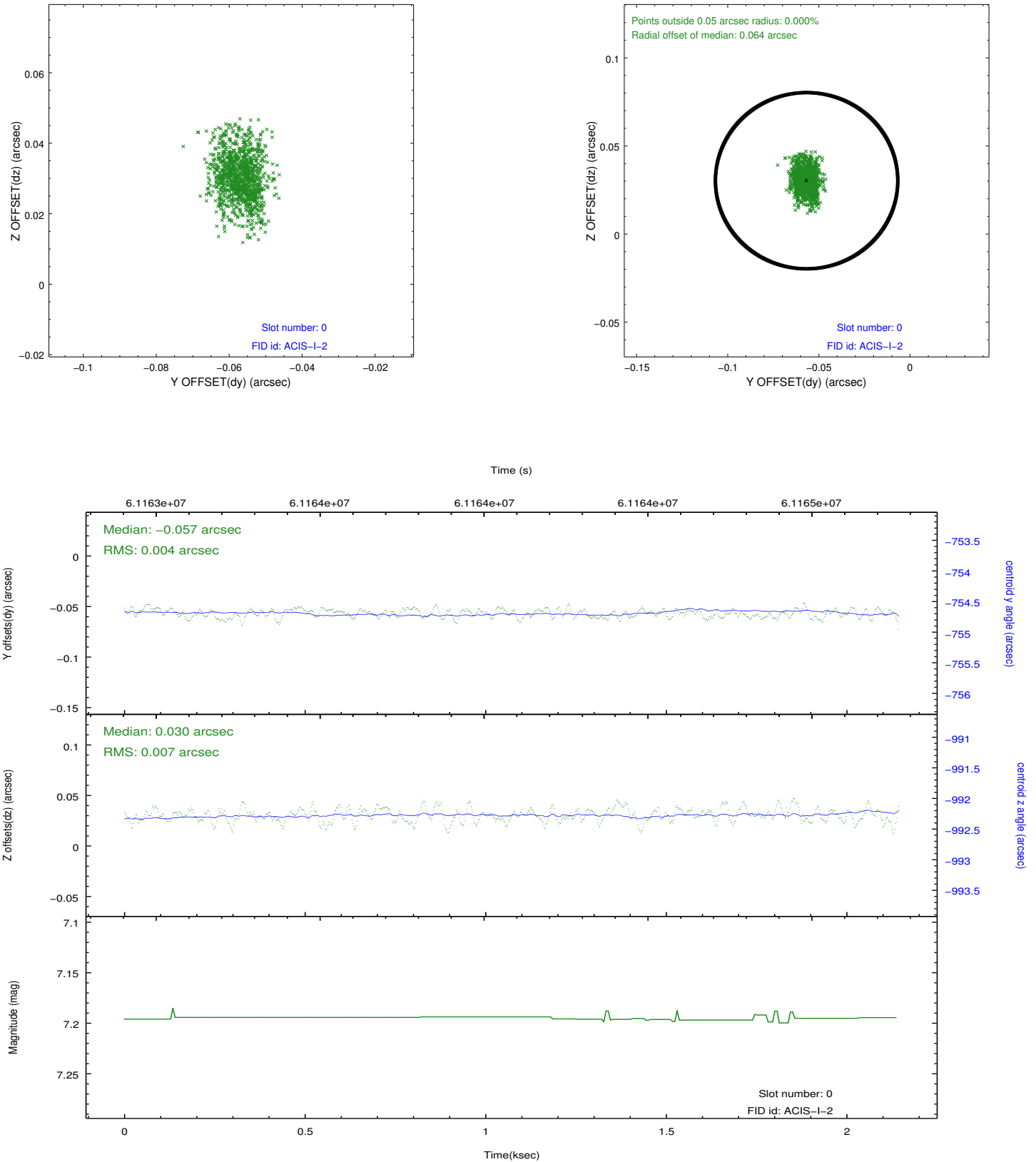


2.4.5 Slot 7

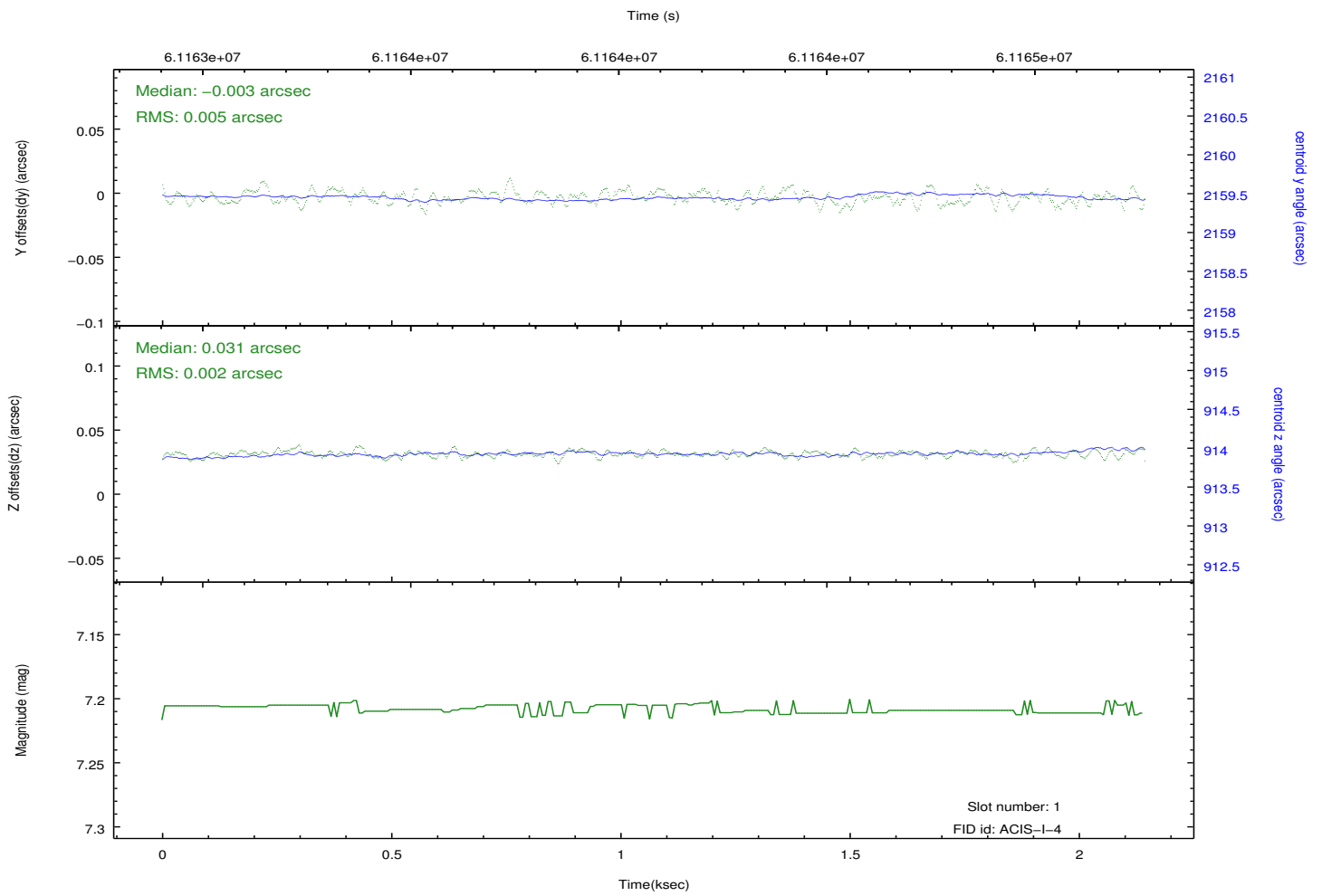
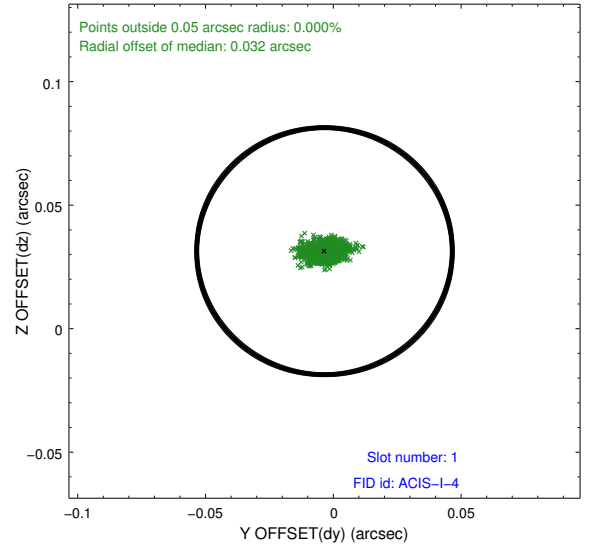
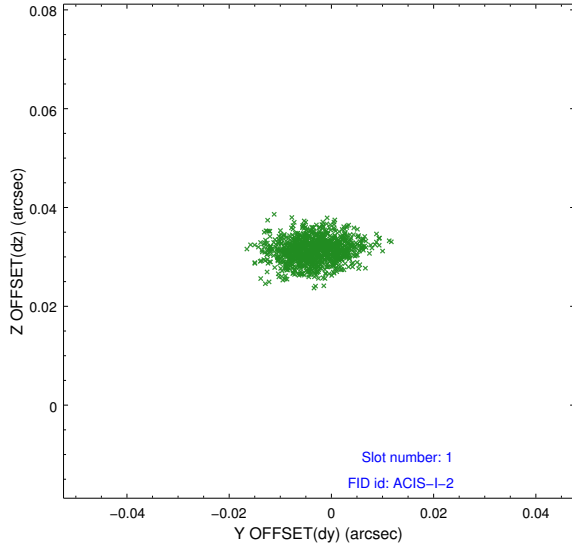


2.5 FID Slots

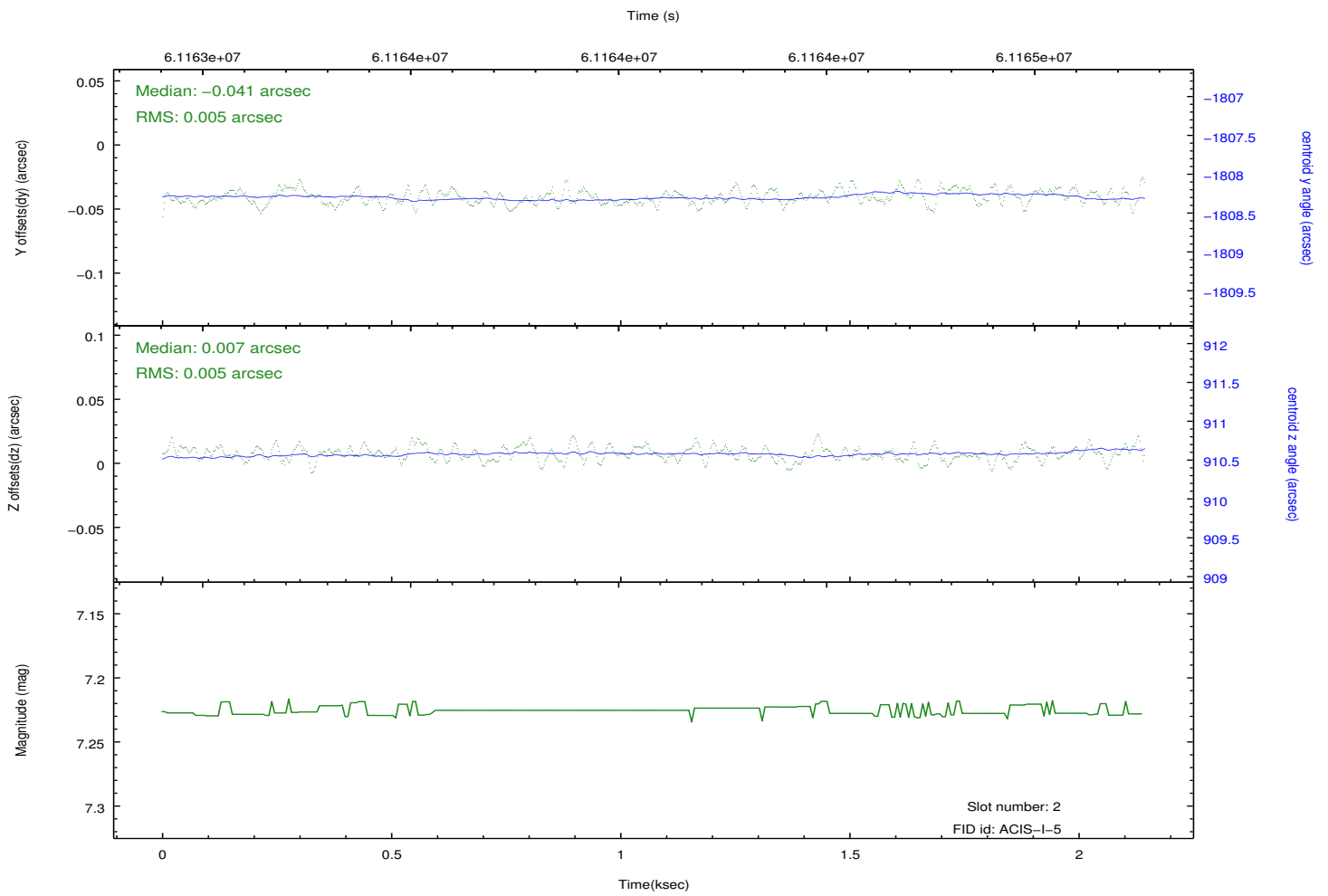
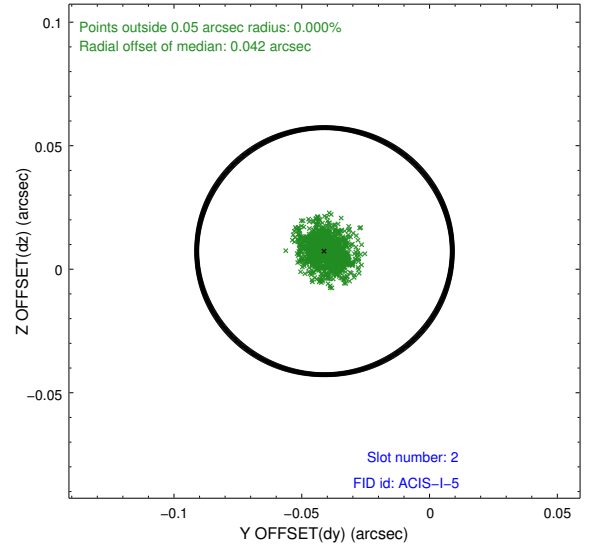
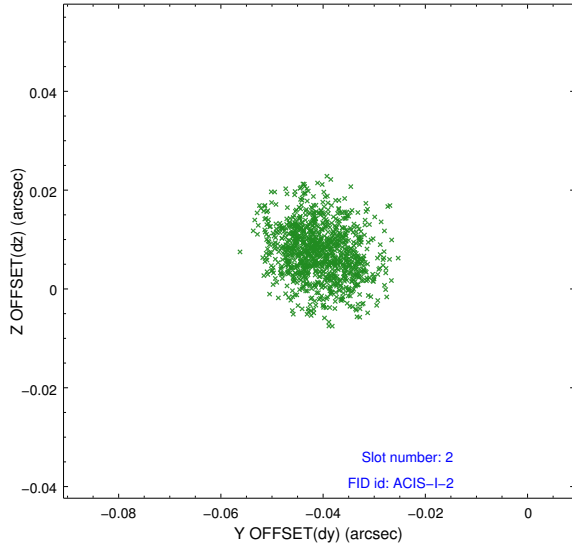
2.5.1 Slot 0



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)	2010.03.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	0.857

A.2 Comments

The focal plane temperature is approximately -110 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.