

V&V Reference Report

L2 ASCDS Version : 8.1.1

Observation 1446 - L2 Version 4
Chandra X-Ray Center

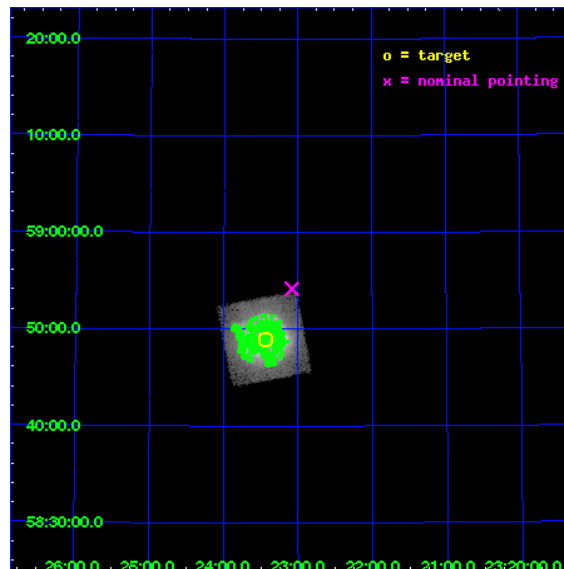
L2 Processing Date : Nov 24 2009

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1 Front

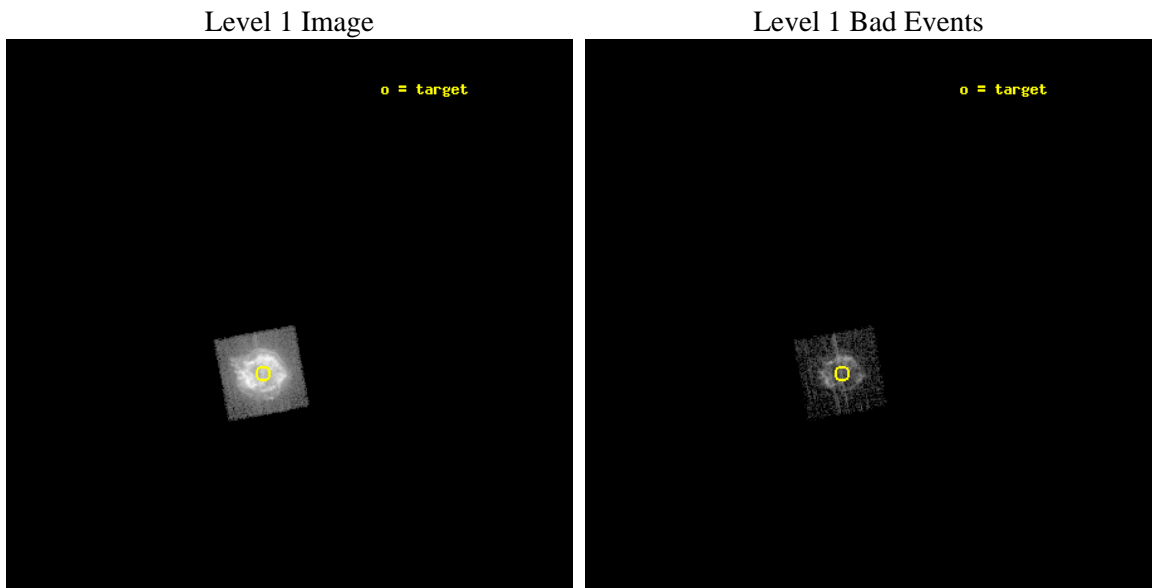
seq_num	580396	Sequence number
obs_id	1446	Observation id
title	ACIS CHIP RESPONSE TO CAS A, JAN. 99	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	CAS A [Chip I2, T=110, Offsets=5,3,0]	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	350.8575	Observer's specified target RA
dec_targ	58.814833	Observer's specified target Dec
ra_nom	350.77099099329	Nominal RA
dec_nom	58.903046552057	Nominal Dec
roll_nom	259.41533994898	Nominal Roll
revision	4	Processing version of data
ontime	1850.6161805168	Sum of GTIs [s]
liveltime	1827.1825641318	Livetime [s]
ontime0	2350.7224809825	Sum of GTIs [s]
ontime1	2350.6814409867	Sum of GTIs [s]
ontime2	1850.6161805168	Sum of GTIs [s]
ontime3	2350.5993609875	Sum of GTIs [s]
ontime6	2350.5583209842	Sum of GTIs [s]
ontime7	2350.7635209858	Sum of GTIs [s]
l2events	403904	Number of level 2 events



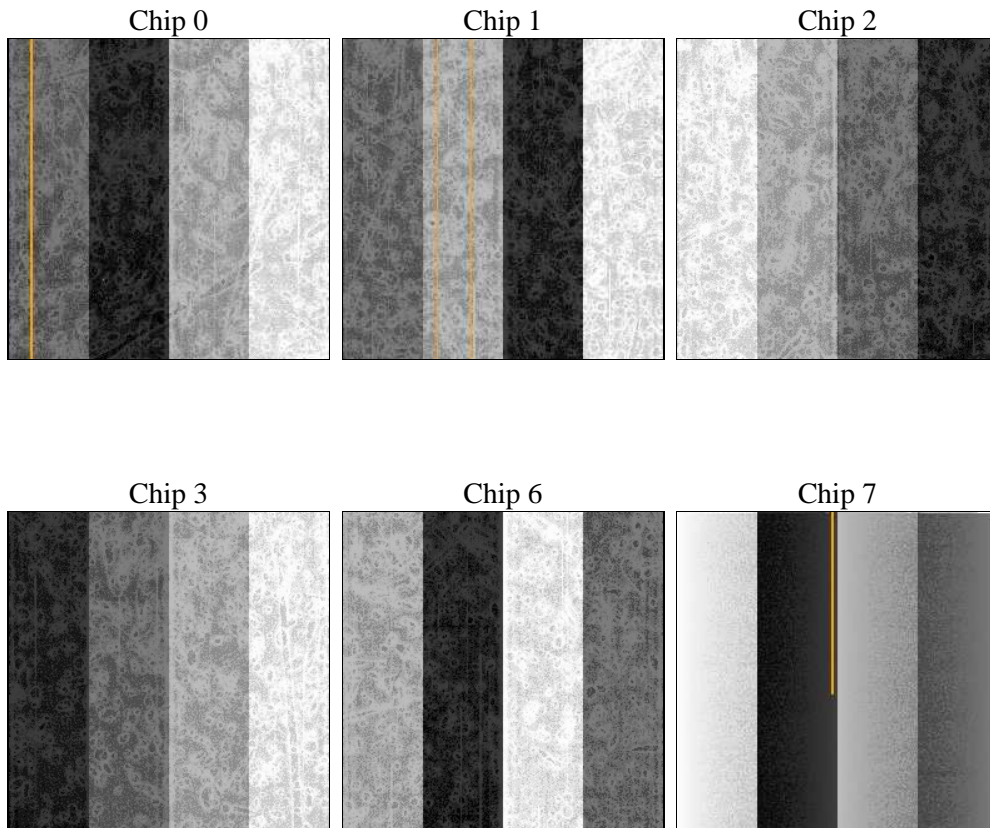
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	Scheduled observation exposure time
ascdsver	8.1.1	ASCDS version number	ontime	1850.6161805168	Sum of GTIs [s]
caldbver	4.1.4	 	ontime0	2350.7224809825	Sum of GTIs [s]
date	2009-11-24T12:56:44	Date and time of file creation	ontime1	2350.6814409867	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	1850.6161805168	Sum of GTIs [s]
			ontime3	2350.5993609875	Sum of GTIs [s]
			ontime6	2350.5583209842	Sum of GTIs [s]
			ontime7	2350.7635209858	Sum of GTIs [s]
			l1events	442667	Number of level 1 events

2.1.4 Events

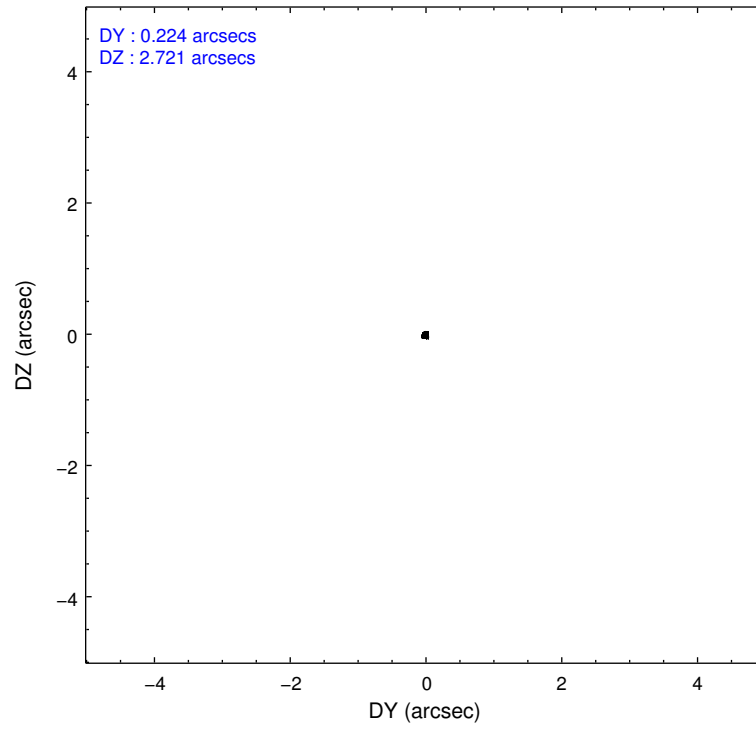
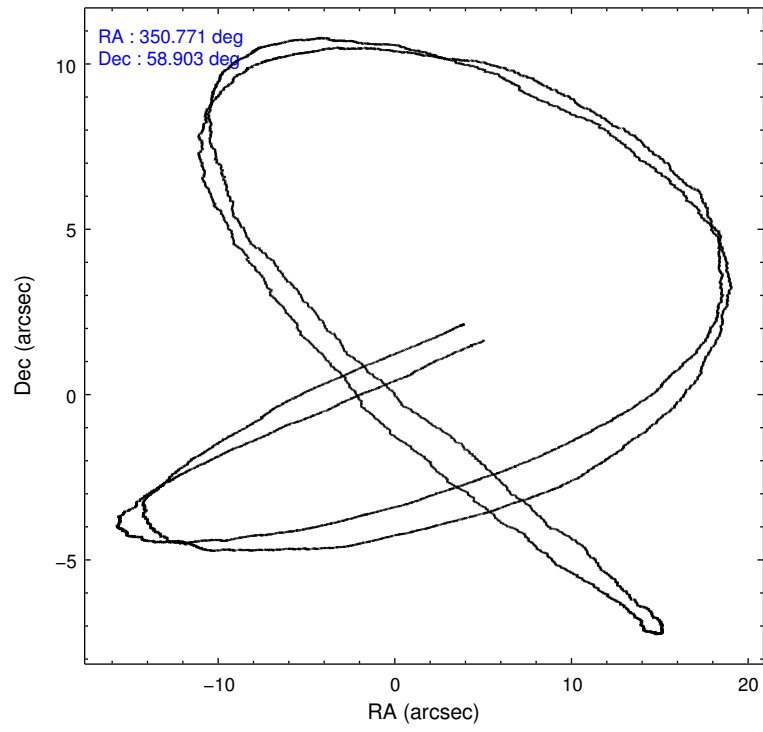
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	0	0	442667	0	0	0
rejected events	0	0	32816	0	0	0
rejected %	0%	0%	7%	0%	0%	0%

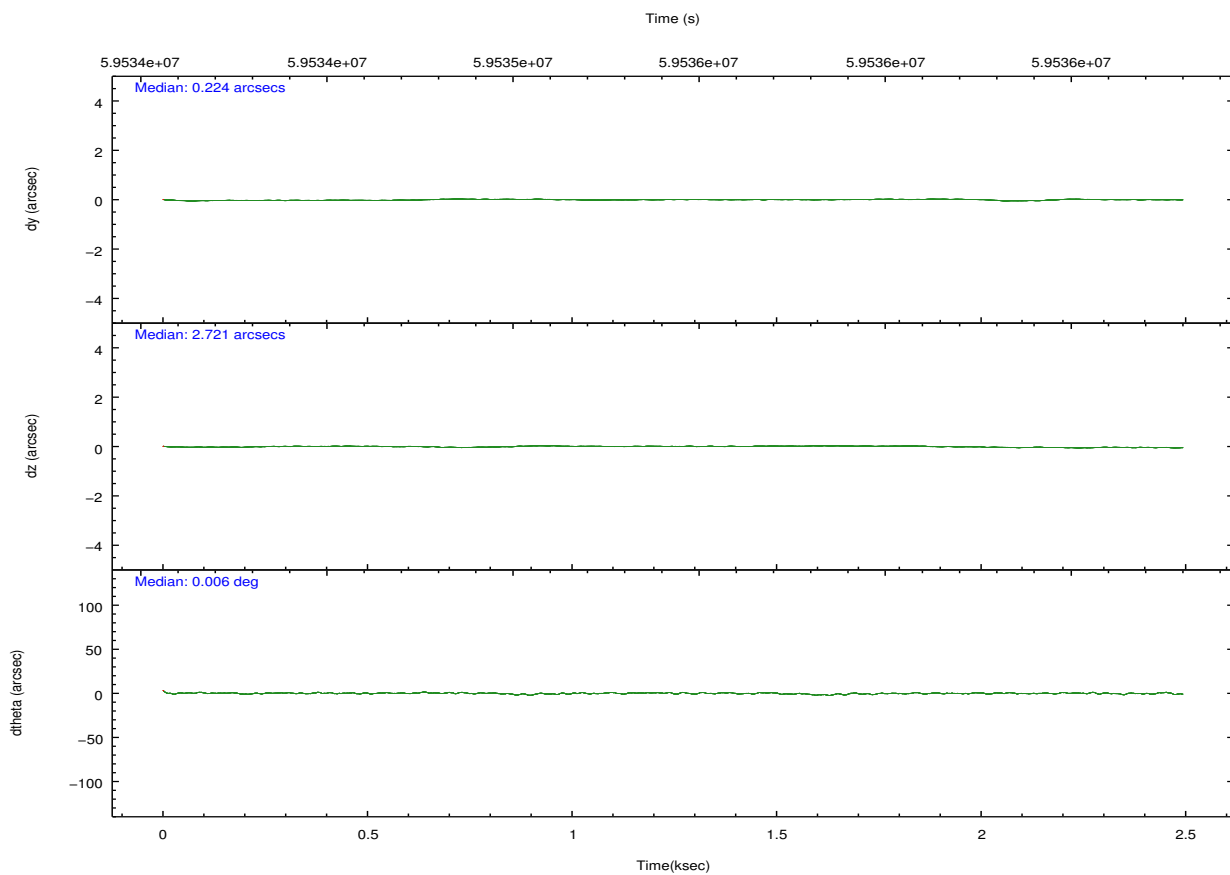
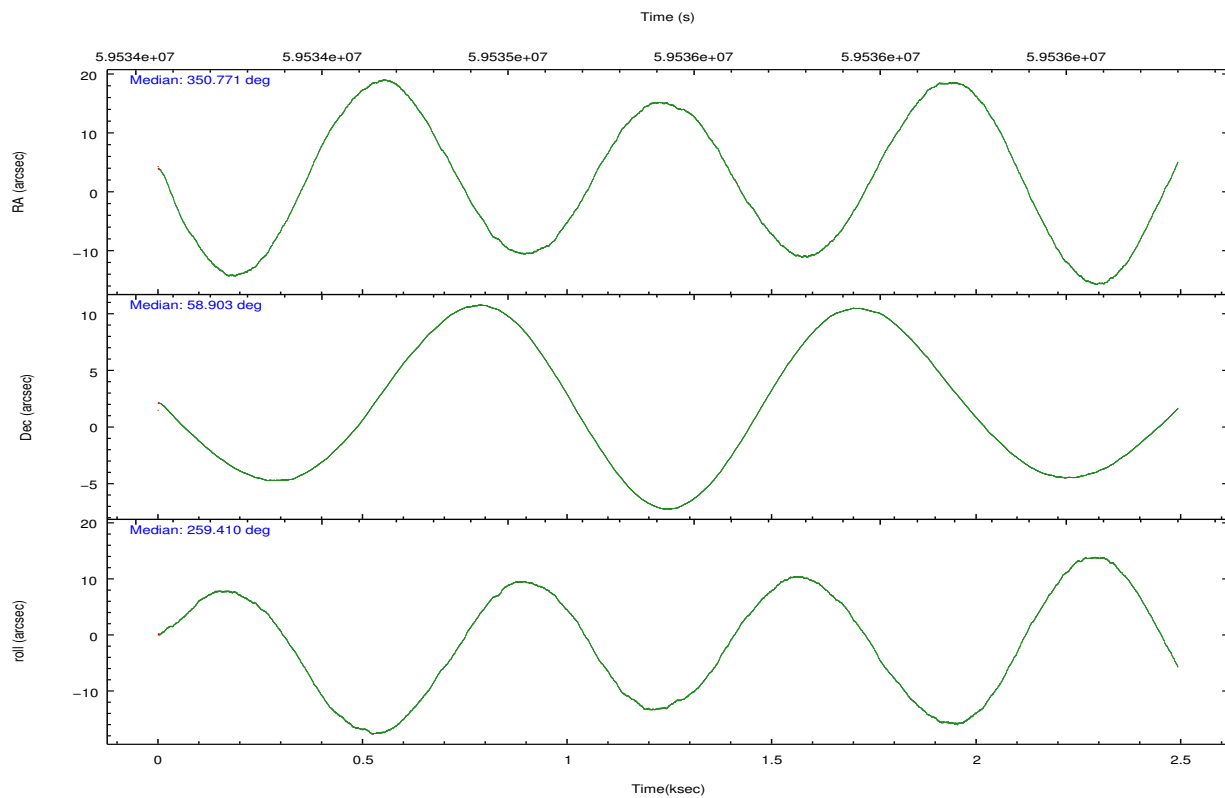
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	0	0	251156	0	0	0
	0%	0%	56%	0%	0%	0%
grade 1 events	0	0	3530	0	0	0
	0%	0%	0%	0%	0%	0%
grade 2 events	0	0	125201	0	0	0
	0%	0%	28%	0%	0%	0%
grade 3 events	0	0	9993	0	0	0
	0%	0%	2%	0%	0%	0%
grade 4 events	0	0	9793	0	0	0
	0%	0%	2%	0%	0%	0%
grade 5 events	0	0	4300	0	0	0
	0%	0%	0%	0%	0%	0%
grade 6 events	0	0	14392	0	0	0
	0%	0%	3%	0%	0%	0%
grade 7 events	0	0	24302	0	0	0
	0%	0%	5%	0%	0%	0%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-012367	ACIS-012367	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	350.754193	350.7709909932909	Subarray requested	NONE	NONE
Pointing Dec	58.929562	58.90304655205691	Alternating exposures requested	N	N
Pointing Roll	259.221008	259.4153399489838	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	59534677.184000	59534011.432343			
Observation start date	1999-11-21T01:23:33	1999-11-21T01:13:31			
Observation end time	59536677.184000	59536811.219944			
Observation end date	1999-11-21T01:56:53	1999-11-21T02:00:11			
Read mode	TIMED	TIMED			

2.3 Aspect



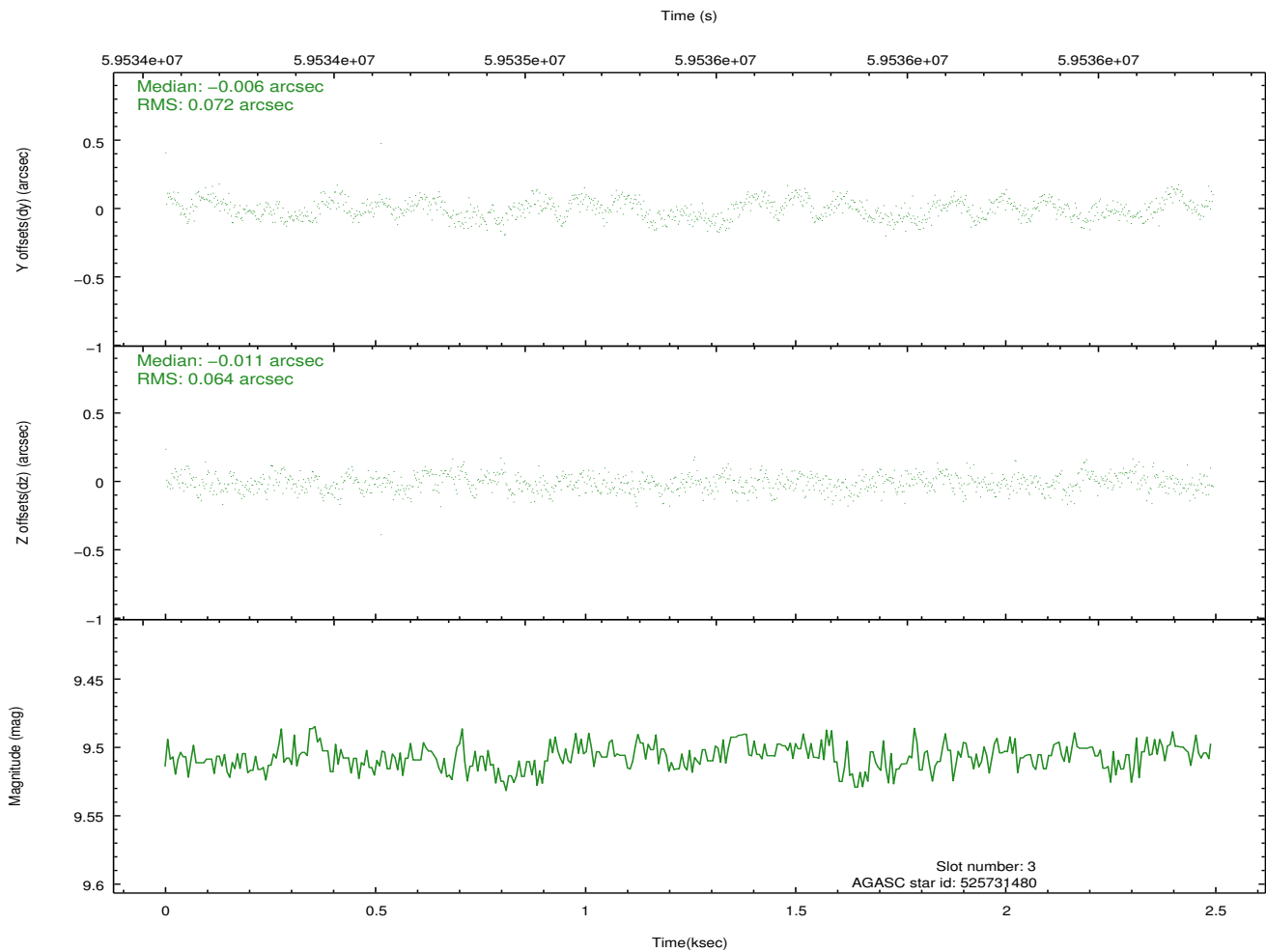
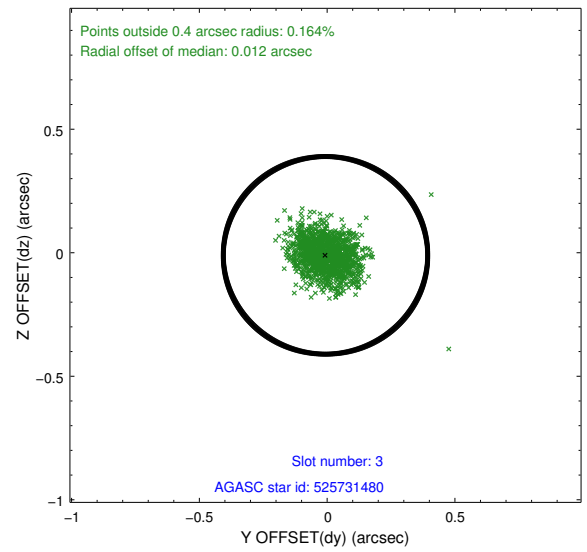
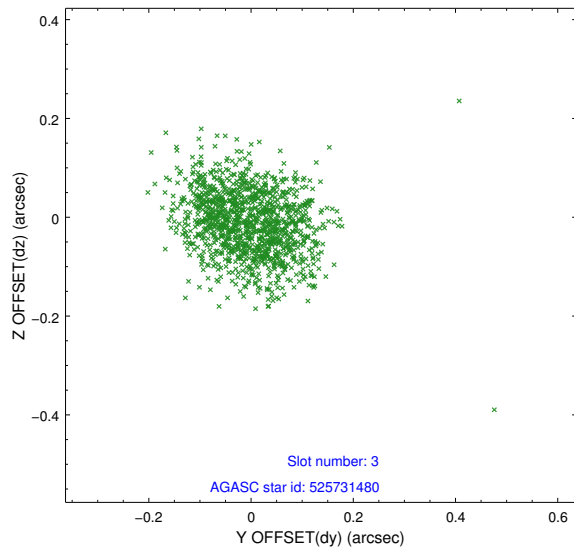


Slot Statistics

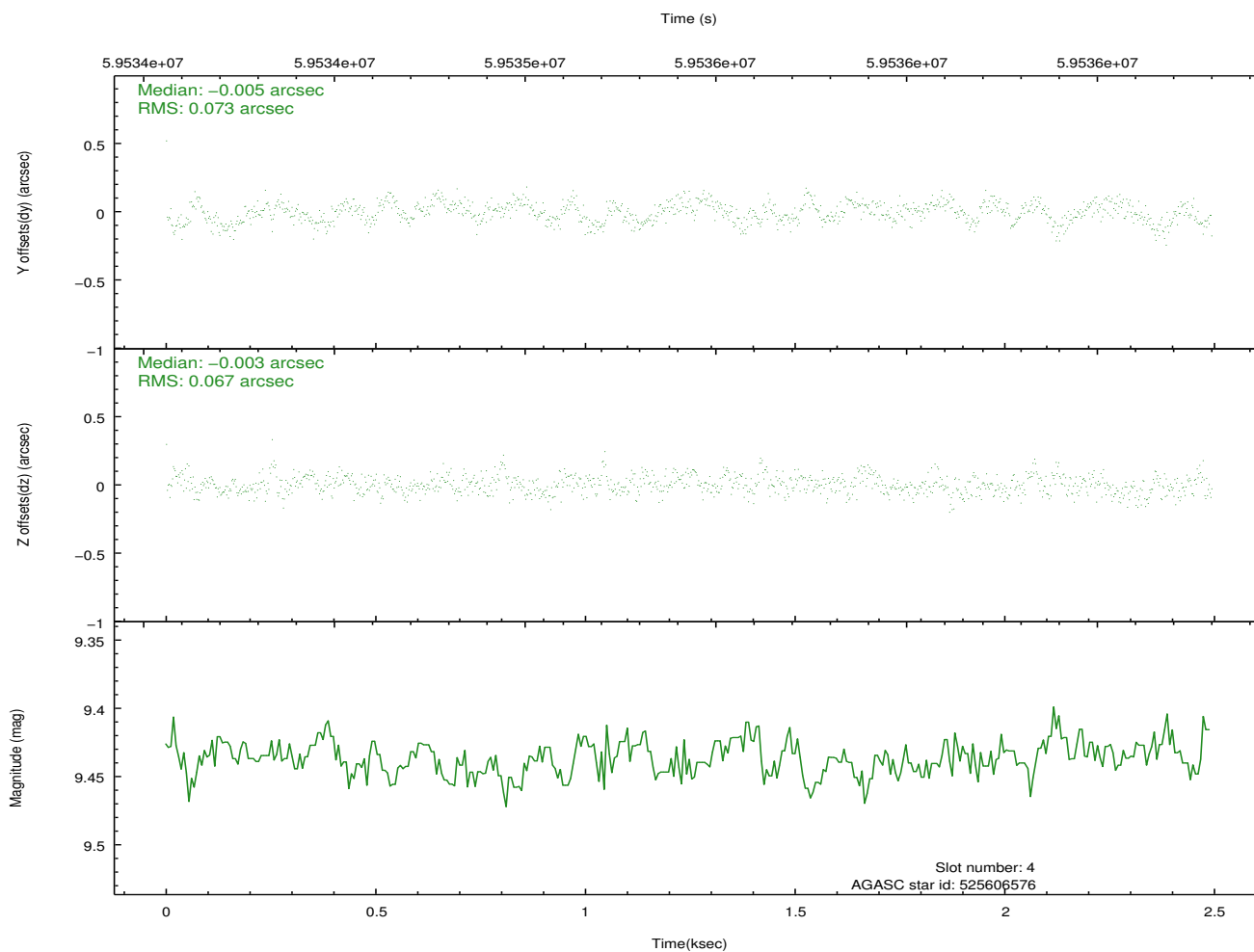
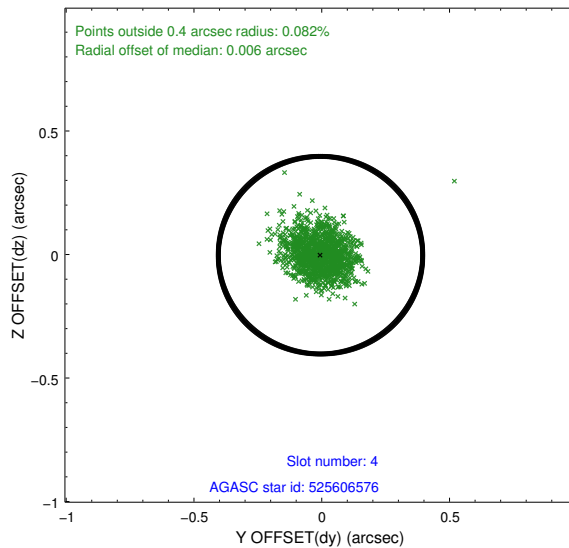
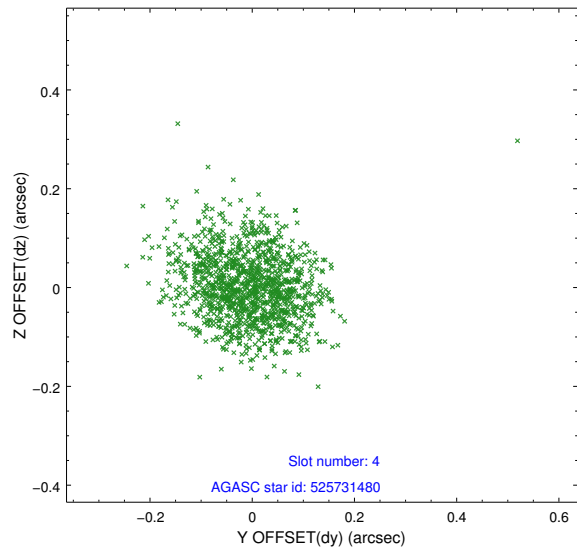
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.19	1217	0.008	0.099	0.010	0.018	0.000000	0.000000	-754.63	-832.15
1	FID	ACIS-I-4	7.26	1217	0.100	-0.019	0.006	0.011	0.000000	0.000000	2159.23	1072.90
2	FID	ACIS-I-5	7.23	1217	-0.210	-0.011	0.010	0.017	0.000000	0.000000	-1806.84	1072.69
3	GUIDE	525731480	9.51	1217	-0.006	-0.011	0.100	0.159	351.647209	58.687294	532.83	1803.30
4	GUIDE	525606576	9.44	1216	-0.005	-0.003	0.106	0.166	349.543555	58.678895	1290.40	-2058.01
5	GUIDE	525734296	9.49	1217	0.063	0.081	0.091	0.154	351.276372	58.418153	1621.36	1310.28
6	GUIDE	525601208	9.20	1215	-0.075	-0.020	0.083	0.145	349.910779	59.483724	-1679.93	-1887.69
7	GUIDE	525732896	9.68	1215	0.029	-0.049	0.107	0.178	351.456486	59.410070	-1948.39	938.28

2.4 Star Slots

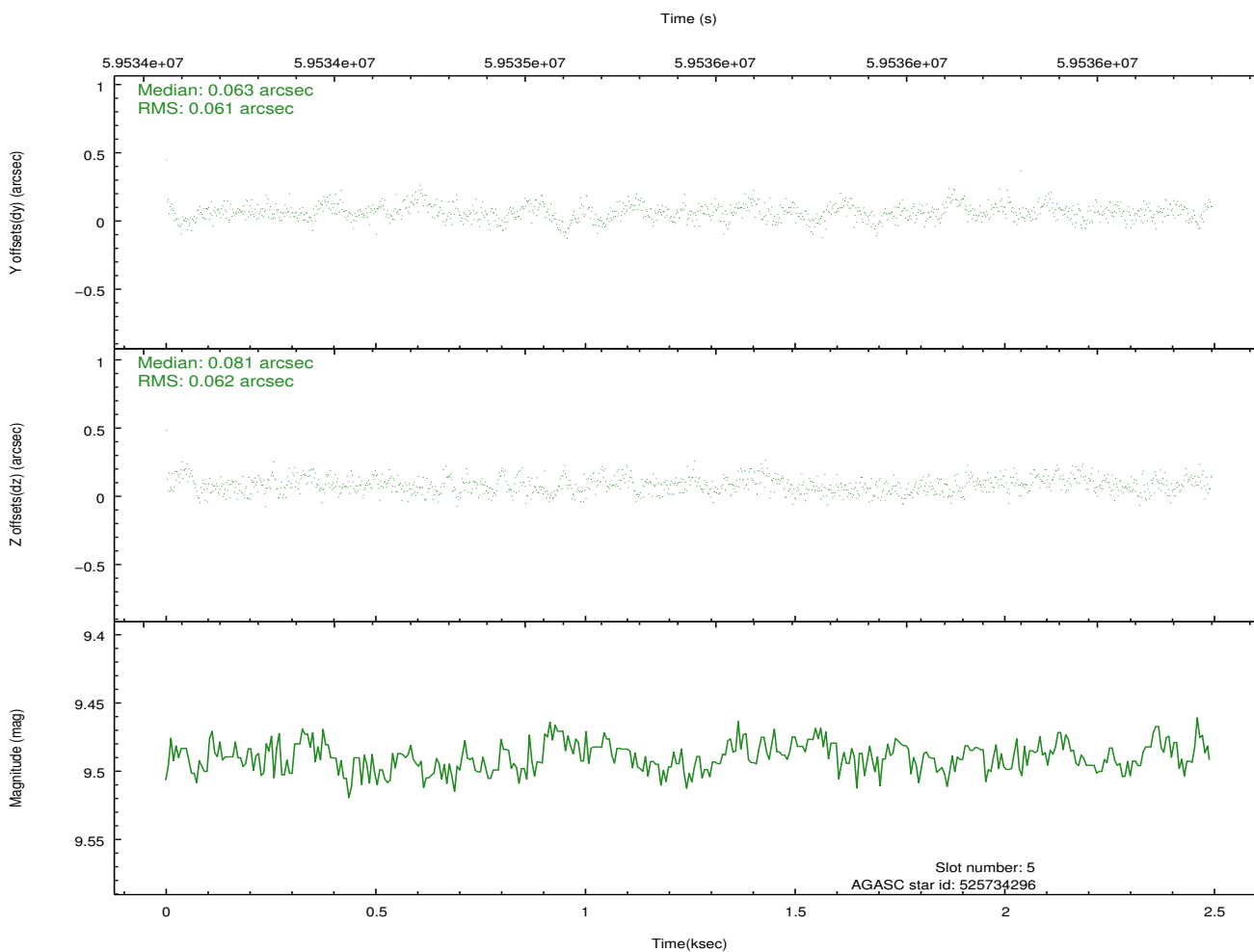
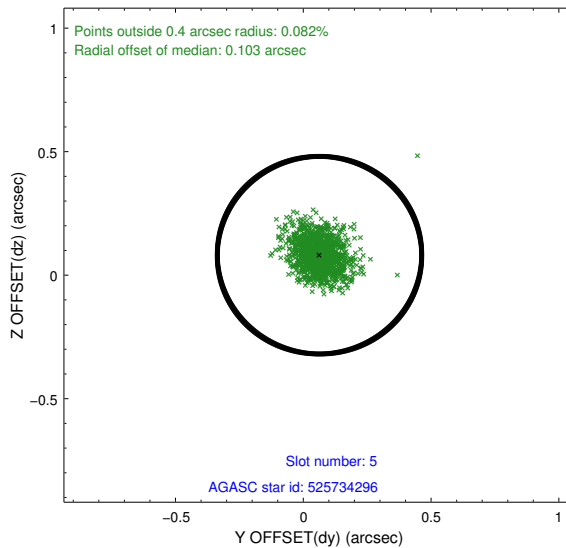
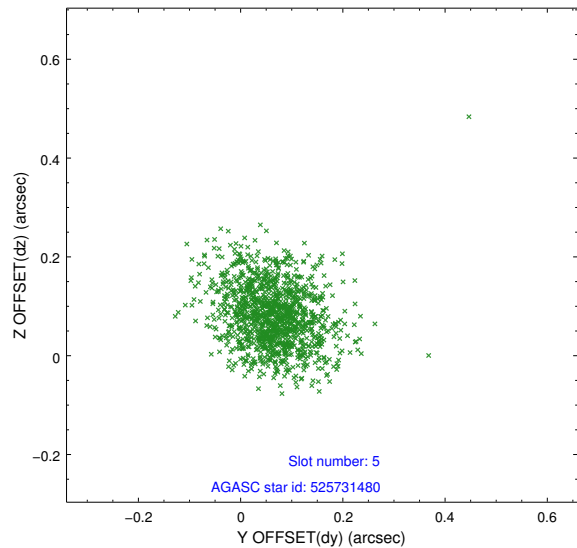
2.4.1 Slot 3



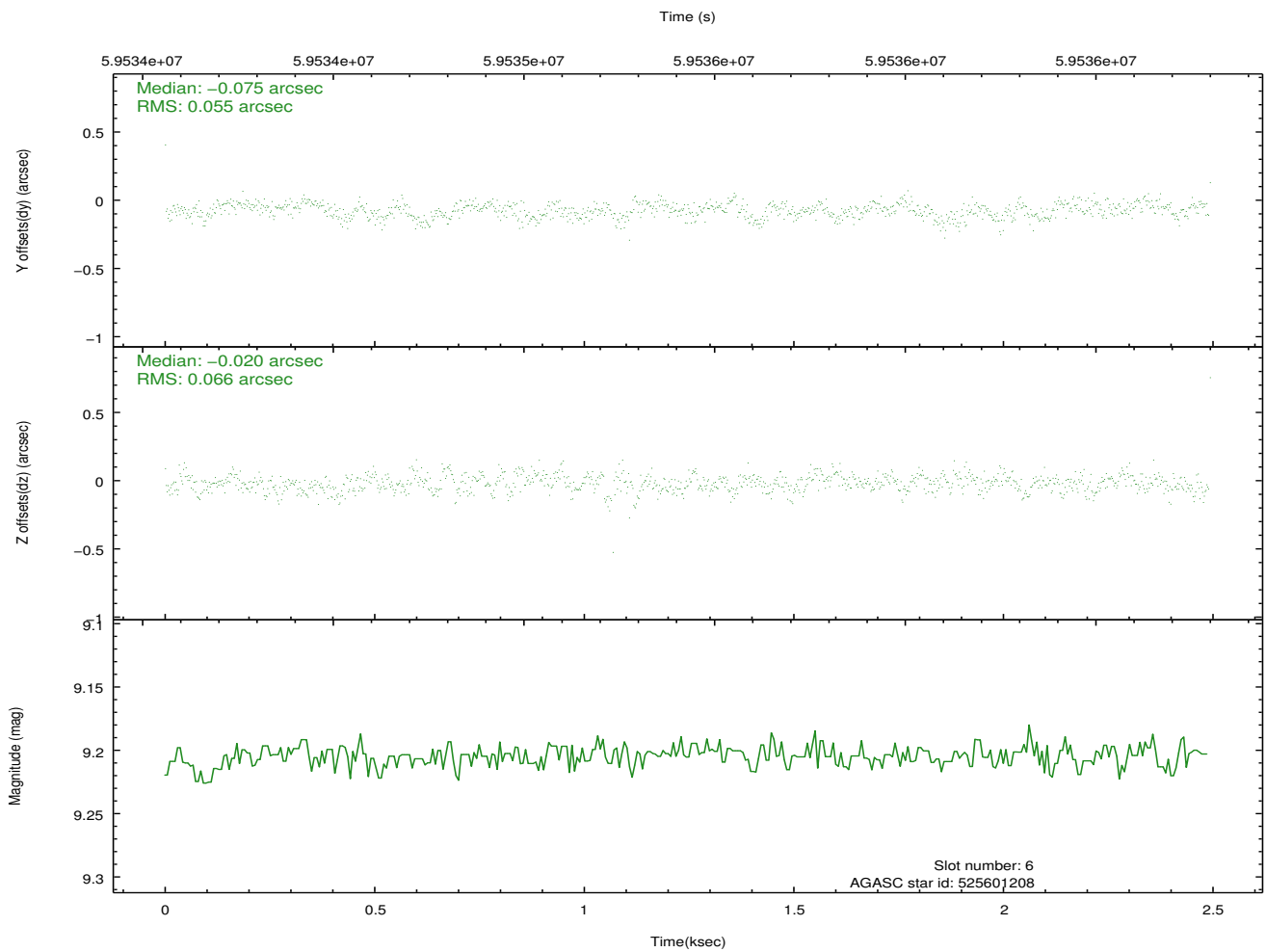
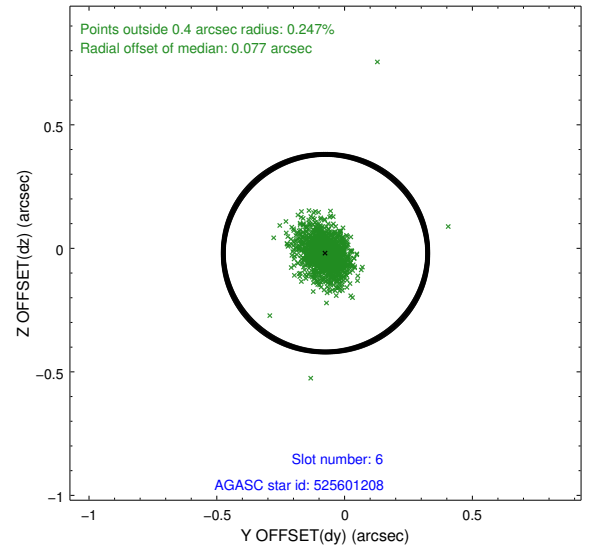
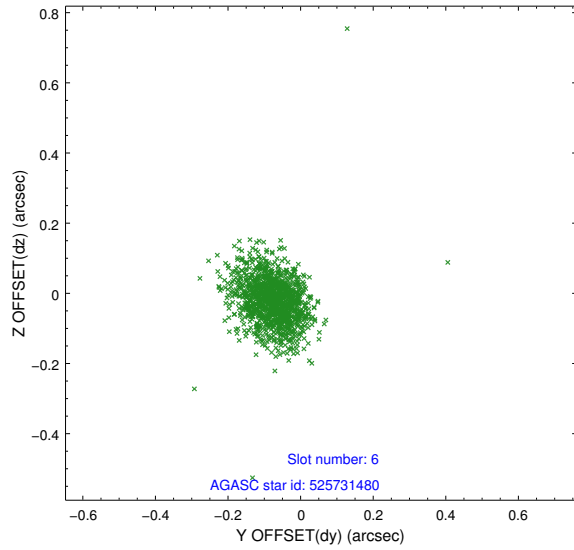
2.4.2 Slot 4



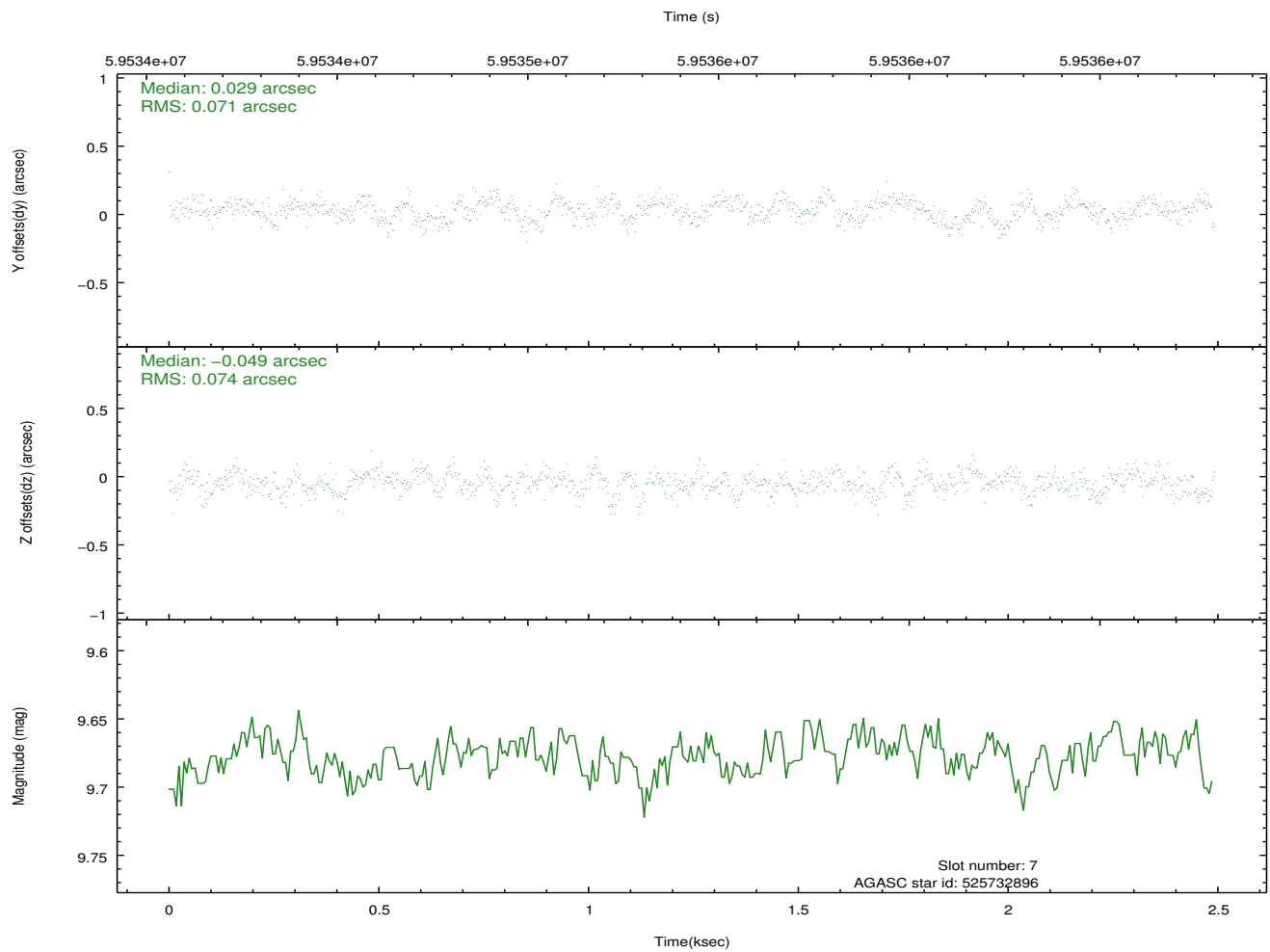
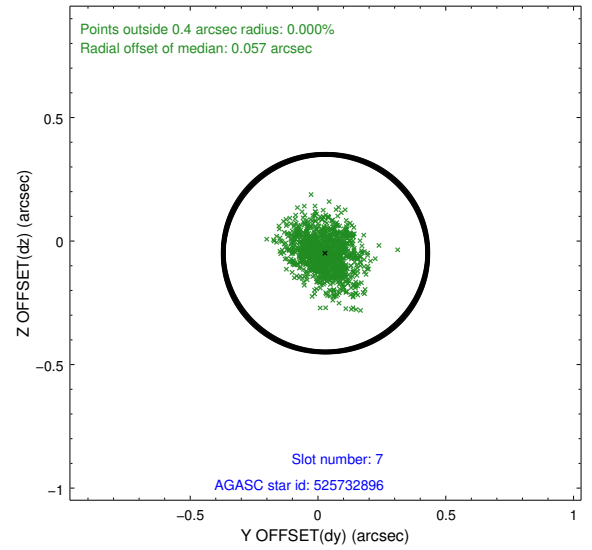
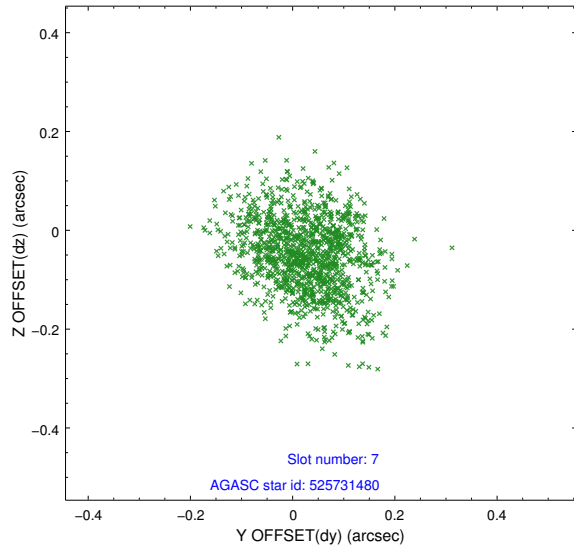
2.4.3 Slot 5



2.4.4 Slot 6

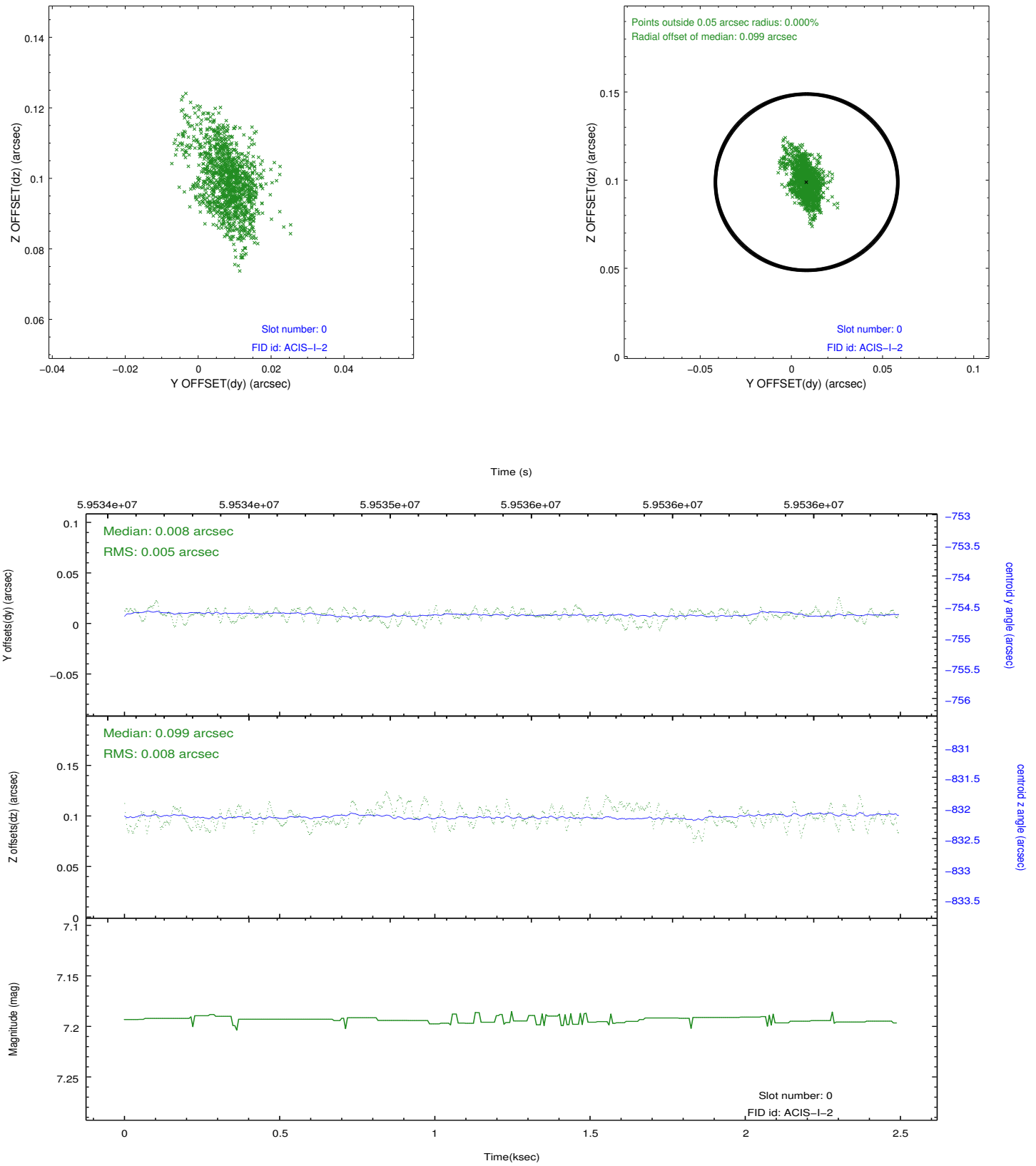


2.4.5 Slot 7

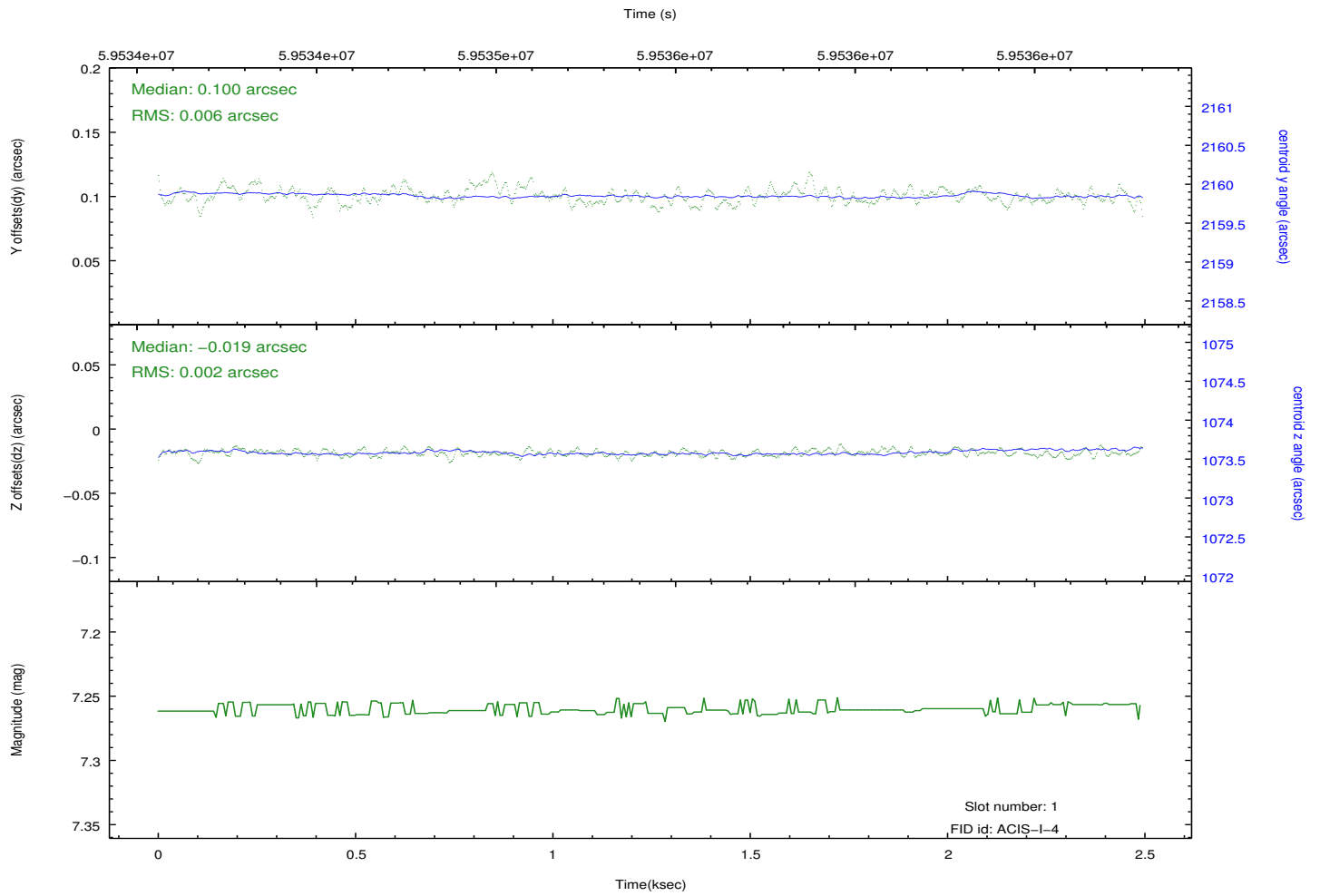
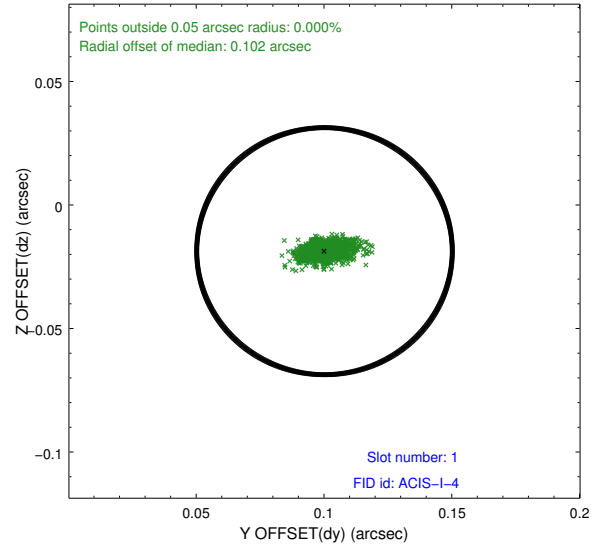
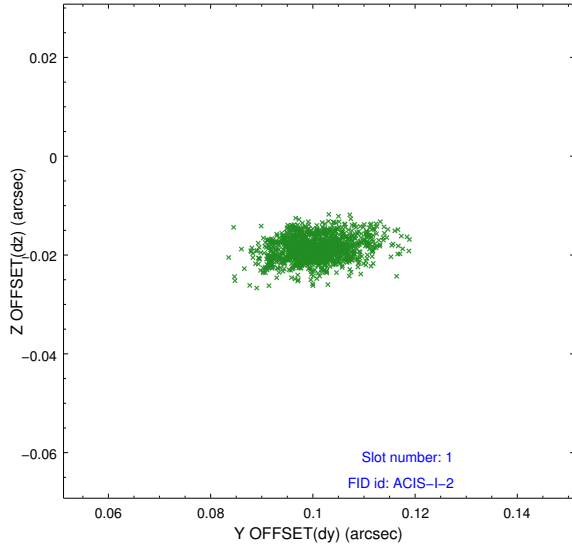


2.5 FID Slots

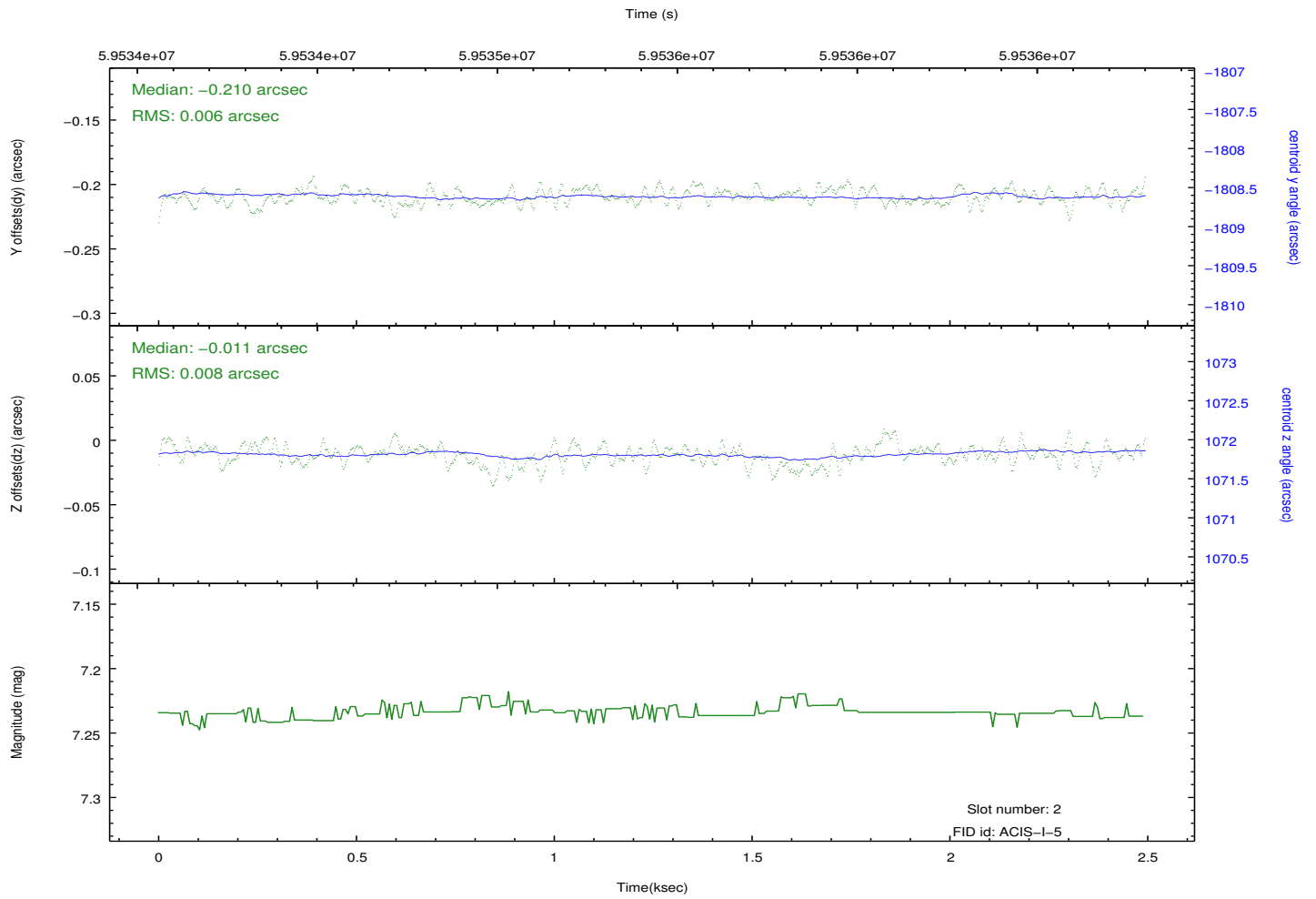
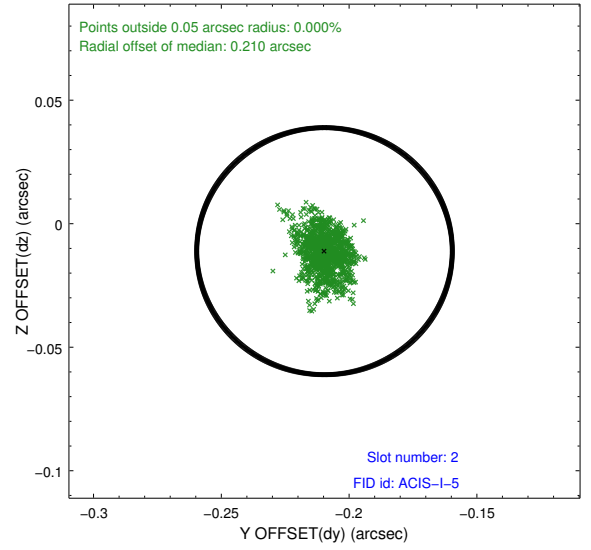
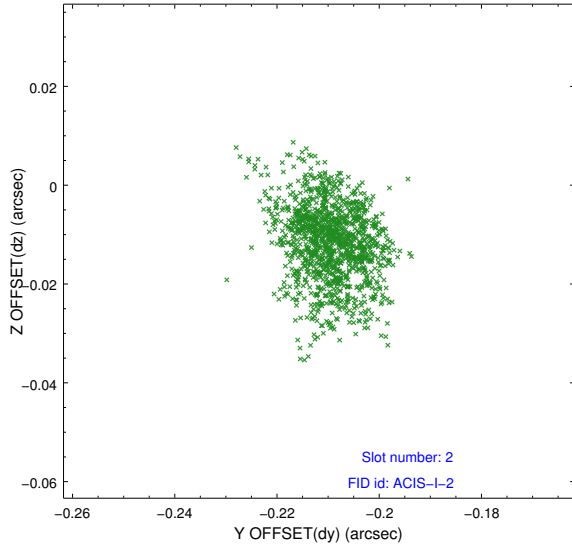
2.5.1 Slot 0



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)	2010.03.31
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.858

A.2 Comments

Off-axis ACIS response to Cas A on chip I2. Only I2 chip was read out.

===

Charge time for this ObsId remains at previous value of 1.858 ksec, although with the current processing the charge time would have been 1.850 ksec.

==

Pileup throughout most of the observation.

===

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.