

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21384 - L2 Version 2
Chandra X-Ray Center

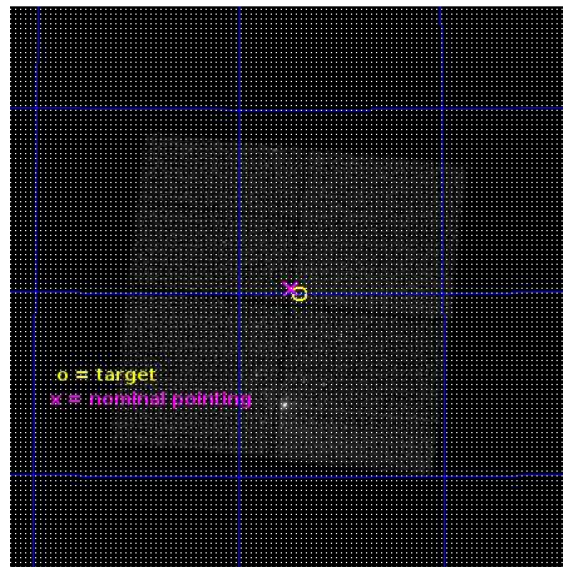
L2 Processing Date : Sep 10 2019

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1 Front

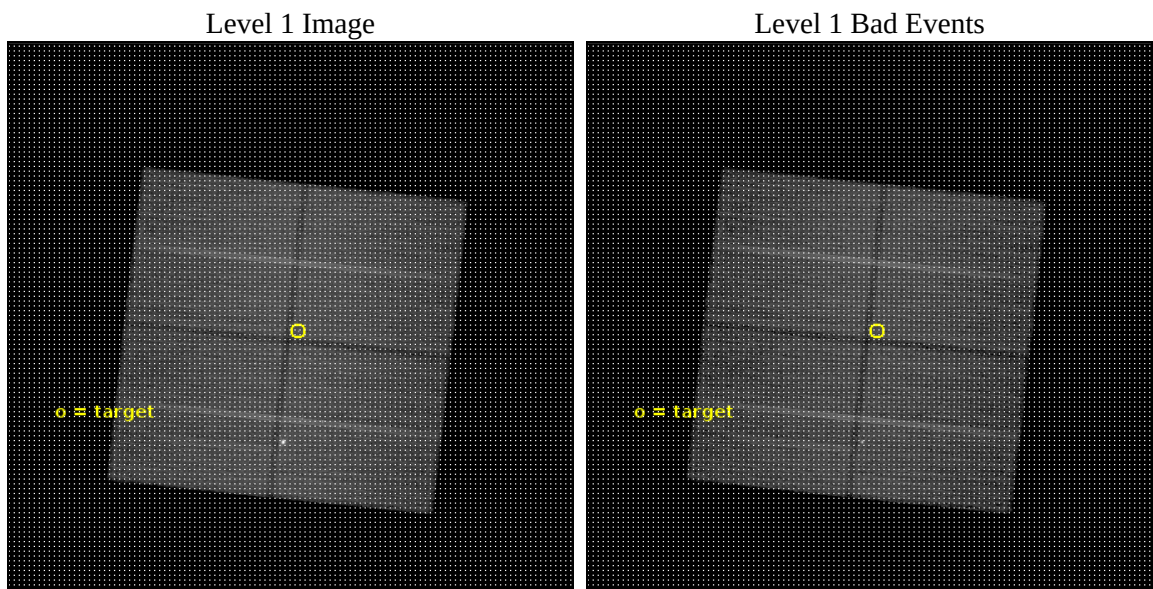
seq_num	601436	Sequence number
obs_id	21384	Observation id
title	A New Giant X-ray Flare in a Nearby Galaxy	Proposal title
observer	Jimmy Irwin	Principal investigator
object	CXO J095524.2+690957	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	148.850833	Observer's specified target RA [deg]
dec_targ	69.165833	Observer's specified target Dec [deg]
ra_nom	148.87076864775	Nominal RA [deg]
dec_nom	69.170652056064	Nominal Dec [deg]
roll_nom	6.190033232317	Nominal Roll [deg]
revision	2	Processing version of data
ontime	42528.900327206	Sum of GTIs [s]
livetime	41973.22893511	Livetime [s]
ontime0	42528.900327206	Sum of GTIs [s]
ontime1	42528.900327206	Sum of GTIs [s]
ontime2	42528.900327206	Sum of GTIs [s]
ontime3	42528.900327206	Sum of GTIs [s]
l2events	160611	Number of level 2 events



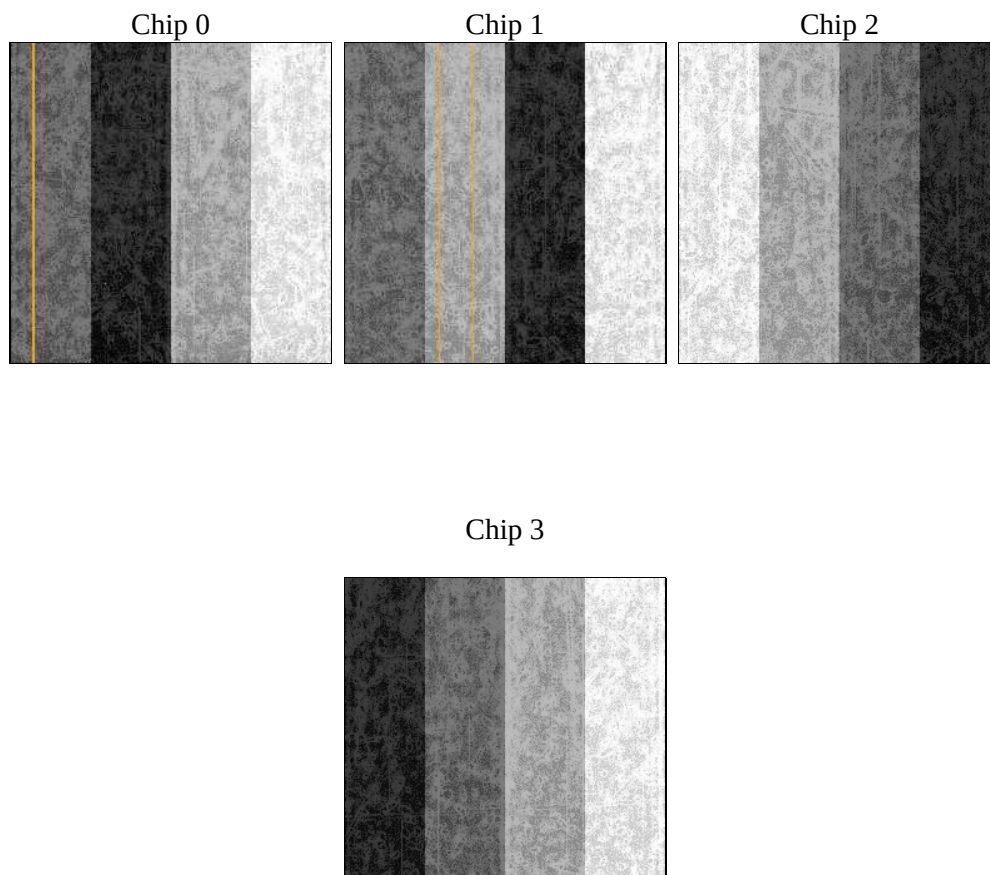
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	42451.155000	[s] Scheduled observation exposure time
ascdsver	10.8	Processing system revision	ontime	42528.900327206	Sum of GTIs [s]
caldsver	4.8.4.1	 	ontime0	42528.900327206	Sum of GTIs [s]
date	2019-09-10T16:18:35	Date and time of file creation	ontime1	42528.900327206	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	42528.900327206	Sum of GTIs [s]
			ontime3	42528.900327206	Sum of GTIs [s]
			l1events	1253896	Number of level 1 events

2.1.4 Events

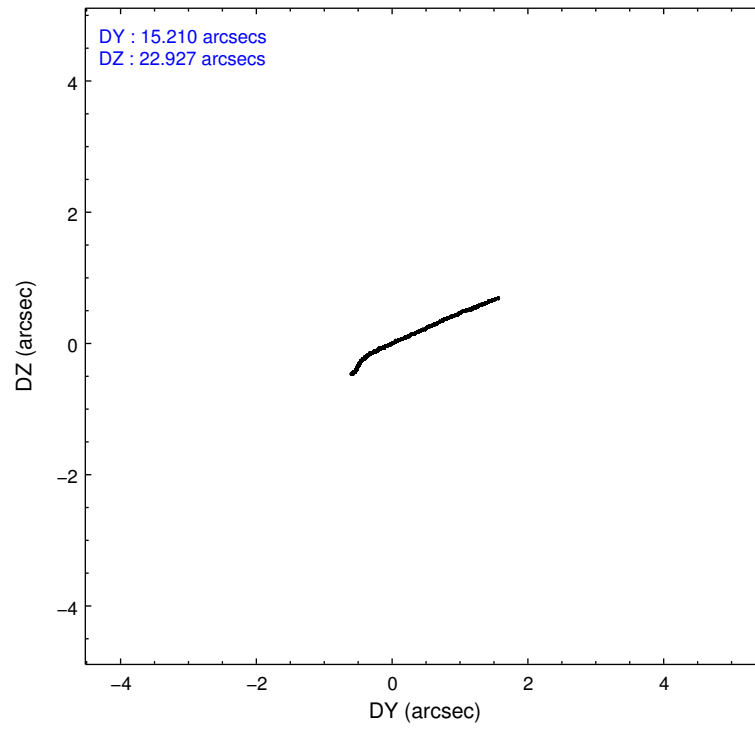
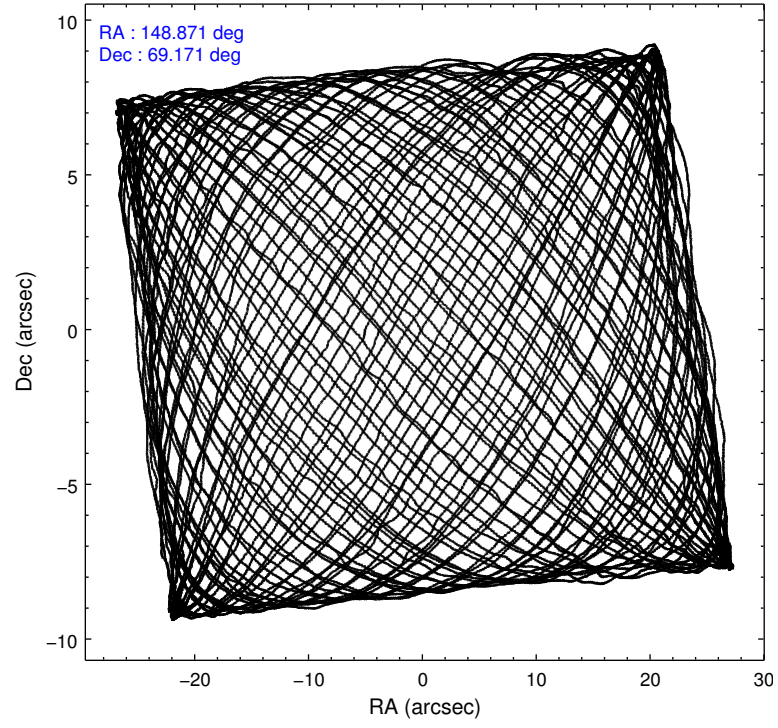
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	290771	335623	319699	307803
rejected events	252551	259394	283915	272085
rejected %	86%	77%	88%	88%

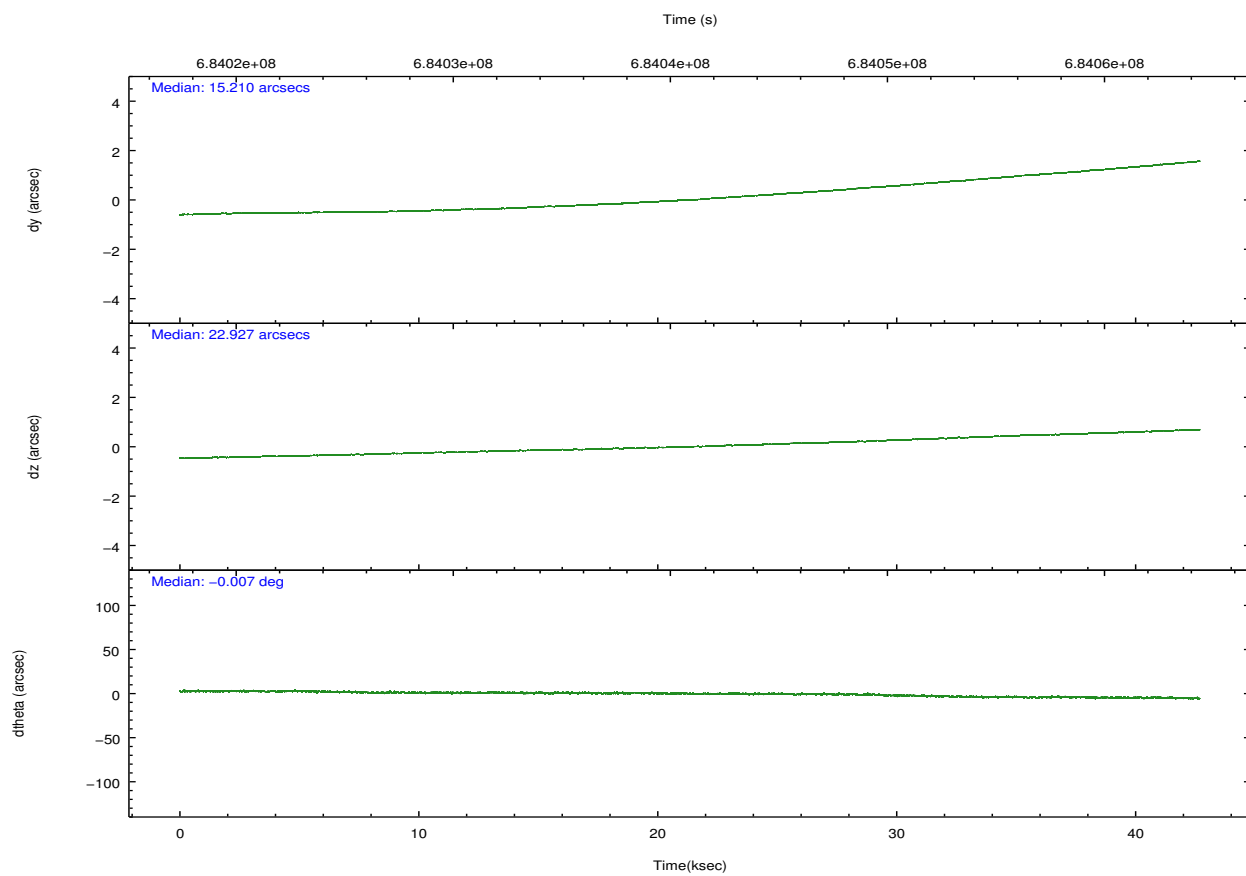
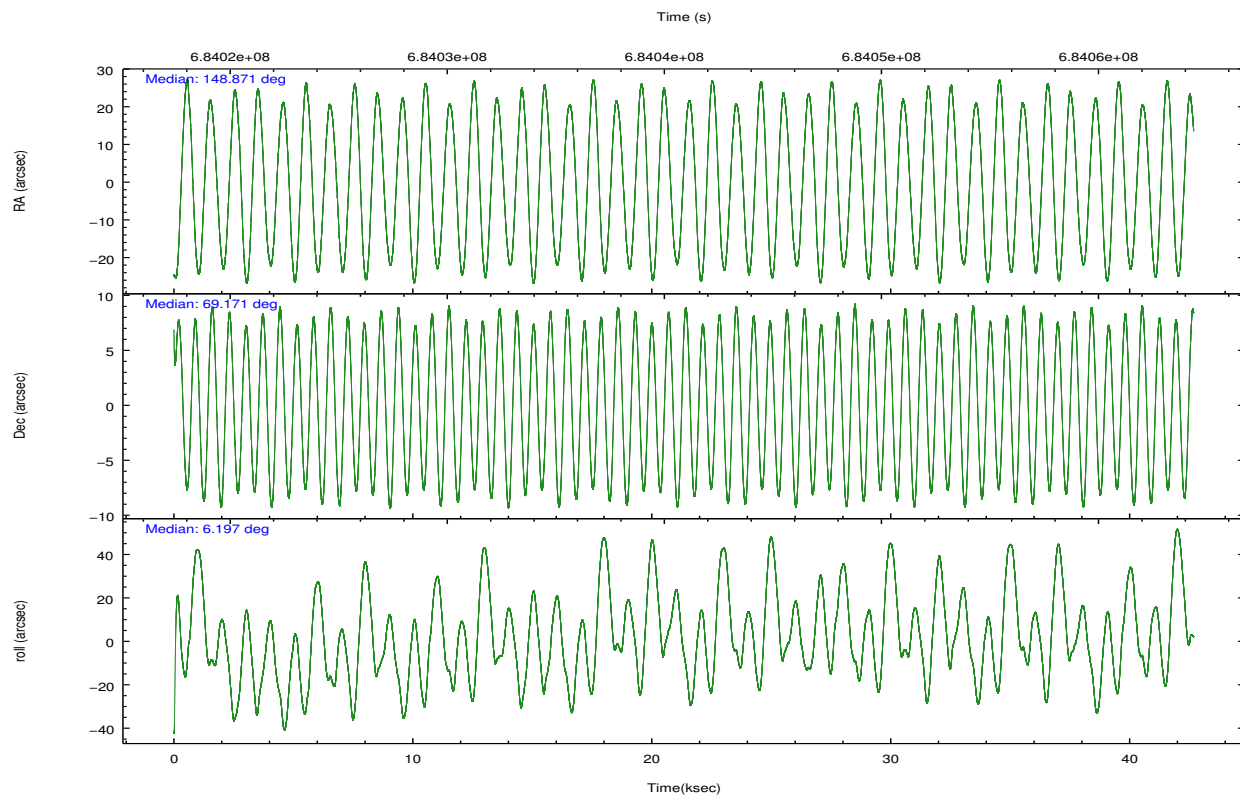
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	14070	40537	12693	13737
	4%	12%	3%	4%
grade 1 events	167	1335	173	199
	0%	0%	0%	0%
grade 2 events	9655	15146	9226	7702
	3%	4%	2%	2%
grade 3 events	3622	5168	3389	3516
	1%	1%	1%	1%
grade 4 events	3455	5143	3534	3531
	1%	1%	1%	1%
grade 5 events	13272	15090	12601	15309
	4%	4%	3%	4%
grade 6 events	7425	10245	6949	7237
	2%	3%	2%	2%
grade 7 events	239105	242959	271134	256572
	82%	72%	84%	83%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	148.808327	148.8707686477532	CCD I2 on	Y	Y
[deg] Pointing Dec	69.154268	69.17065205606389	CCD I3 on	Y	Y
[deg] Pointing Roll	6.039720	6.190033232317019	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O2	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	684019795.184000	684018882.1276799	CCD S5 on	N	N
Observation start date	2019-09-04T21:28:46	2019-09-04T21:14:42	Number of optional ACIS chips dropped	2	2
[s] Observation end time (MET)	684062246.184000	684063264.1178499	On-chip summing requested	N	N
Observation end date	2019-09-05T09:16:17	2019-09-05T09:34:24	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



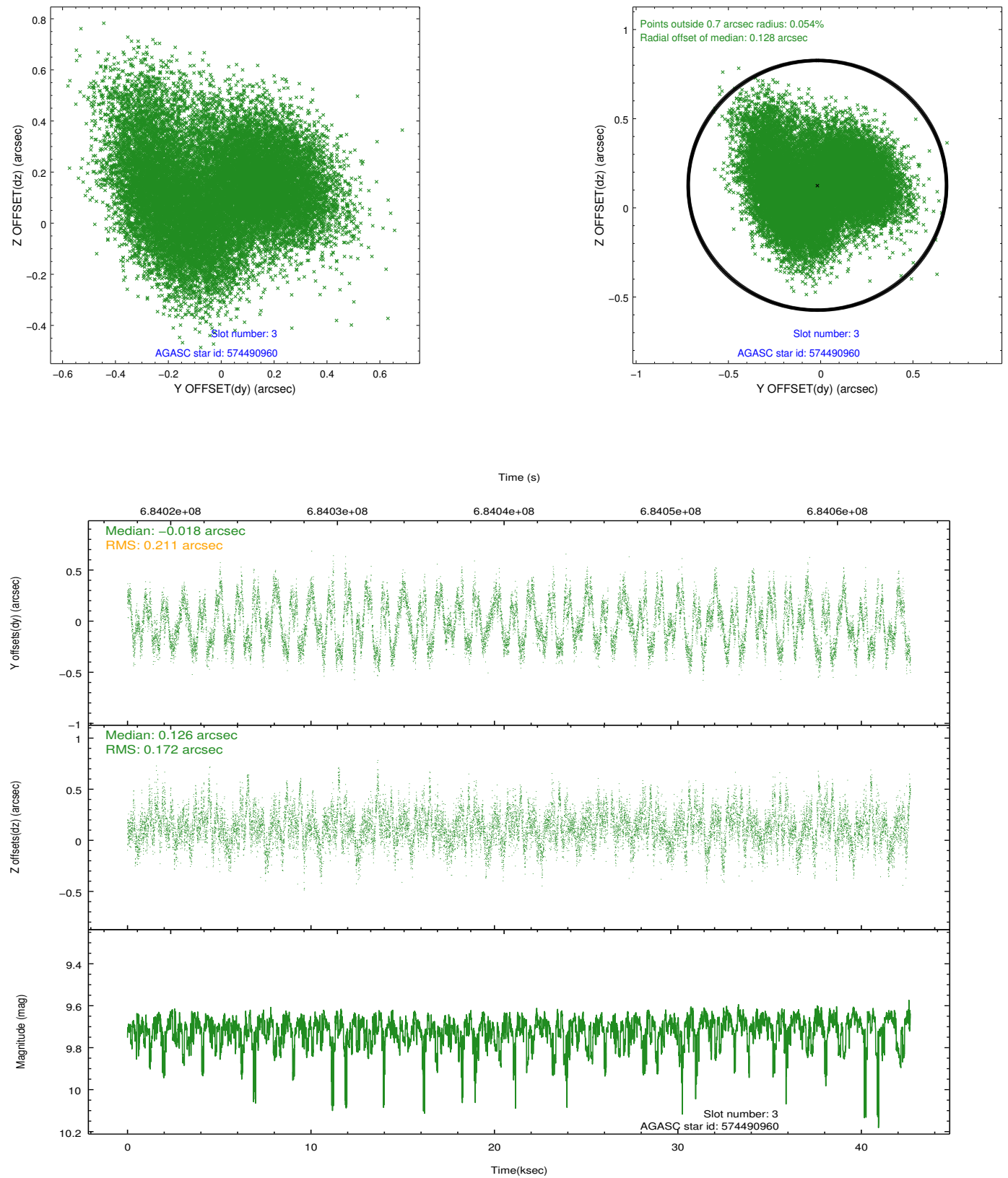


Slot Statistics

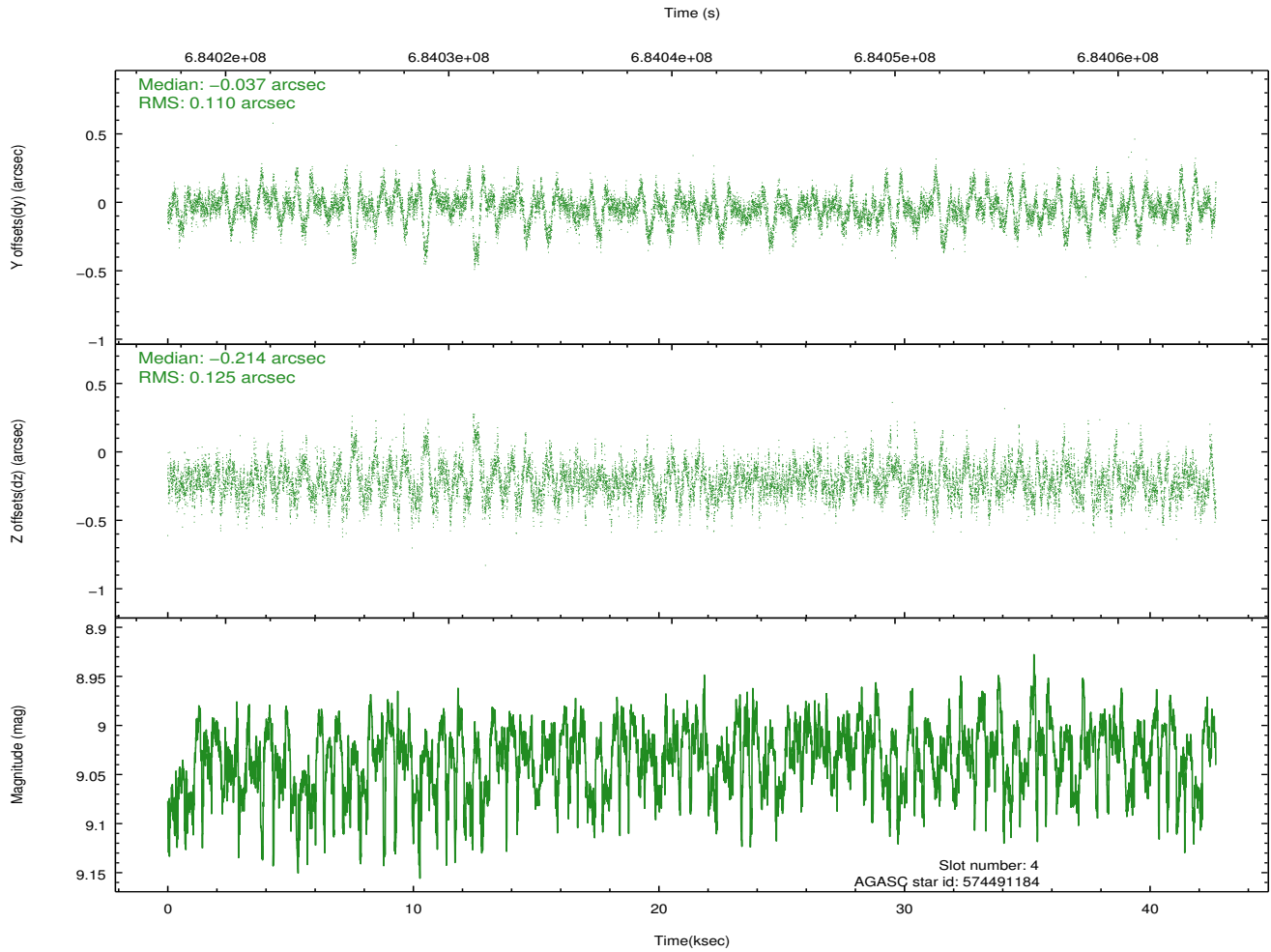
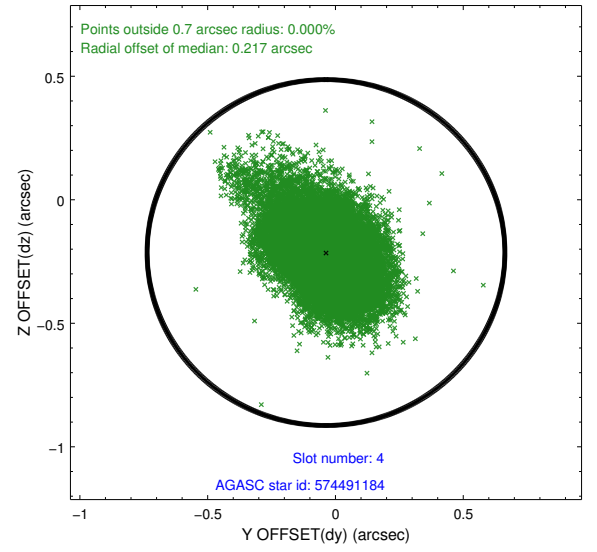
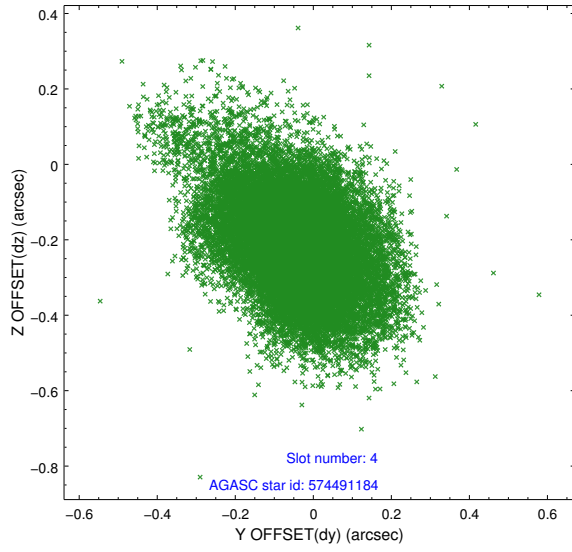
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.14	10410	1.000	0.078	-0.001	0.027	0.053	0.000000	0.000000	924.20	-846
1	FID		ACIS-I-5	7.13	10410	1.000	-0.471	0.016	0.018	0.032	0.000000	0.000000	-1824.62	1050
2	FID		ACIS-I-6	7.15	10407	1.000	0.299	0.063	0.028	0.040	0.000000	0.000000	389.73	1695
3	GUIDE	used	574490960	9.71	20556	1.000	-0.018	0.126	0.297	0.442	148.185918	69.658768	-583.46	1890
4	GUIDE	used	574491184	9.03	20791	1.000	-0.037	-0.214	0.171	0.298	148.582453	69.768699	-46.72	2228
5	GUIDE	used	574491280	9.31	20784	1.000	0.030	0.116	0.171	0.277	148.611567	69.450135	-137.67	1083
6	GUIDE	used	574491872	9.20	20781	1.000	0.006	-0.026	0.278	0.400	147.207613	69.765453	-1748.77	2416
7	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0

2.4 Star Slots

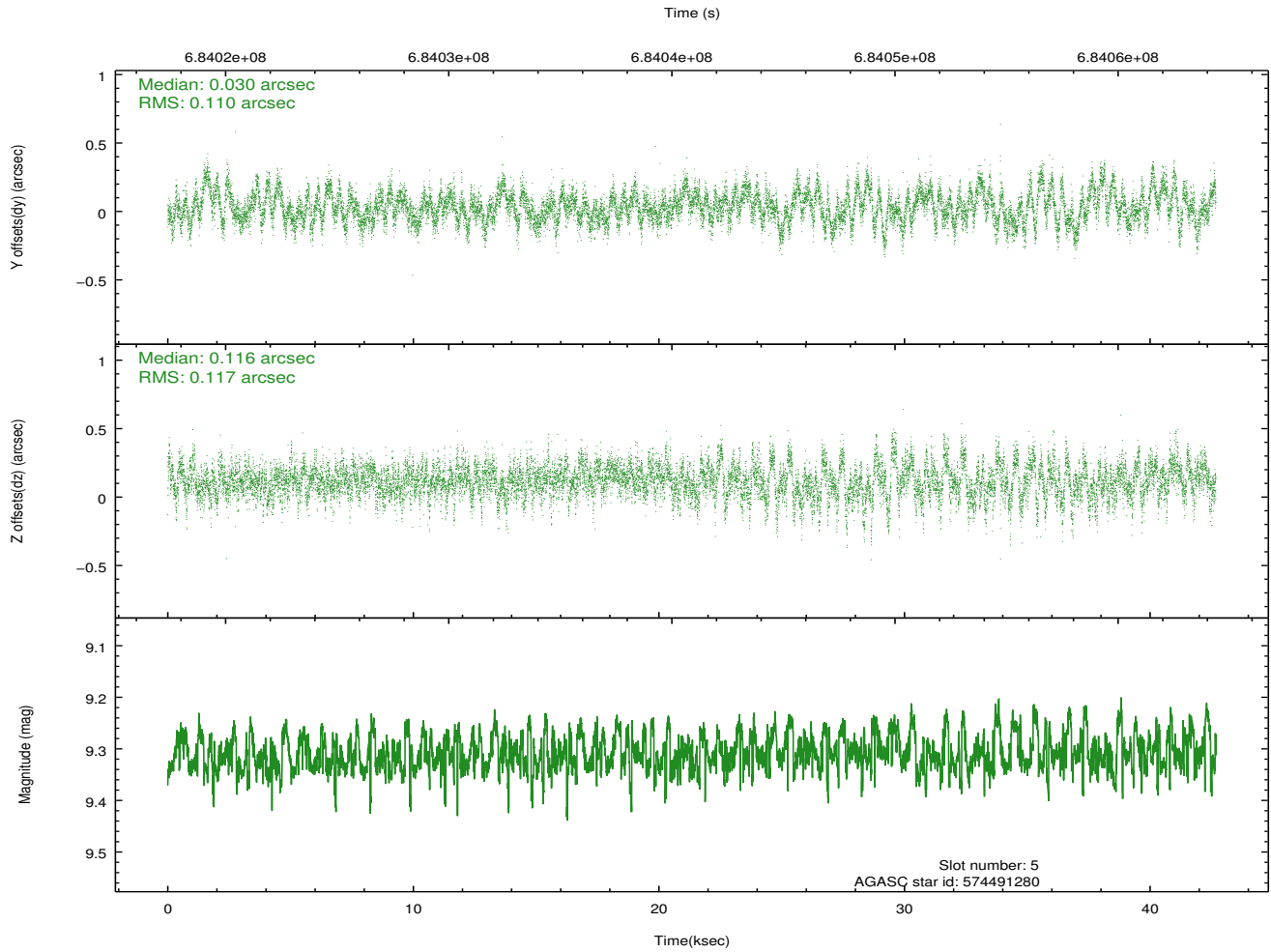
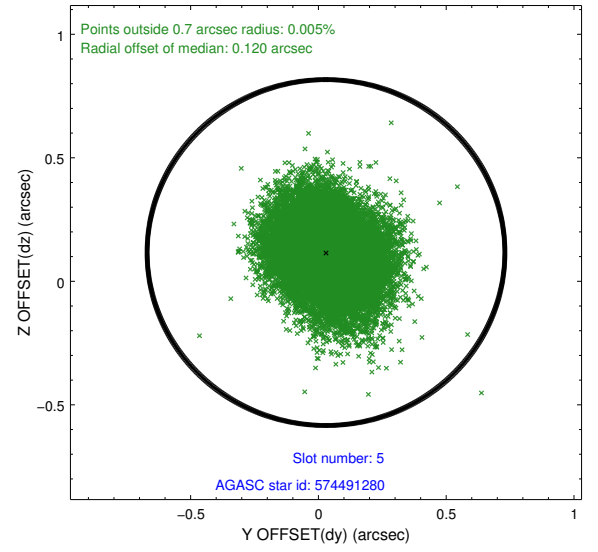
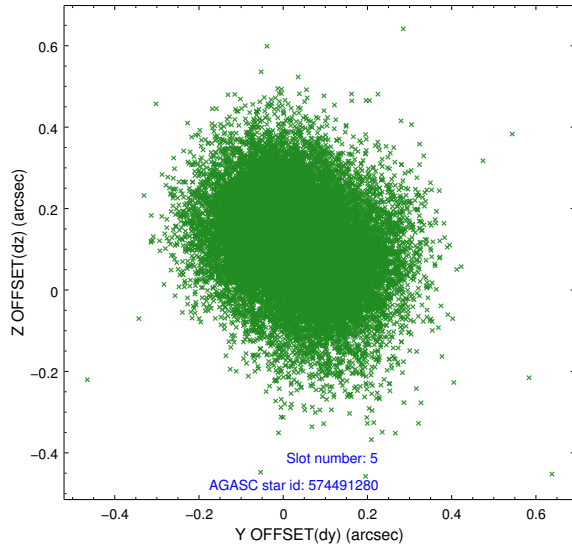
2.4.1 Slot 3



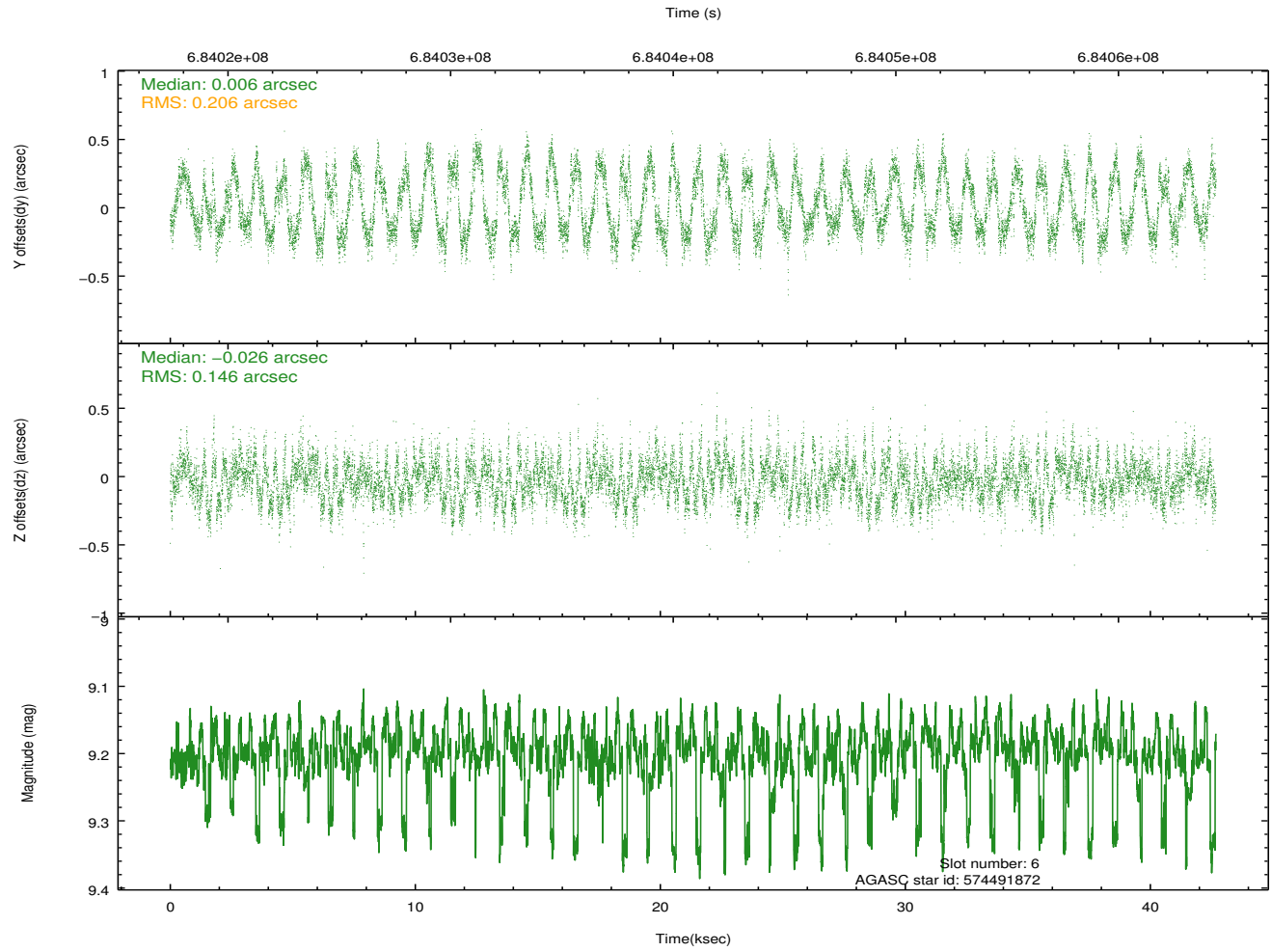
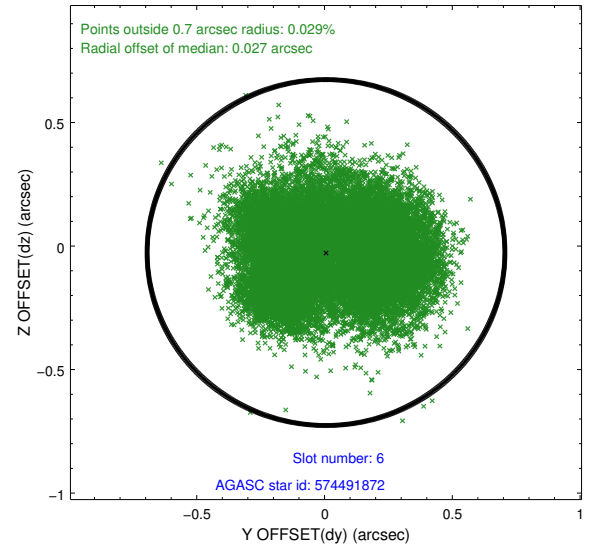
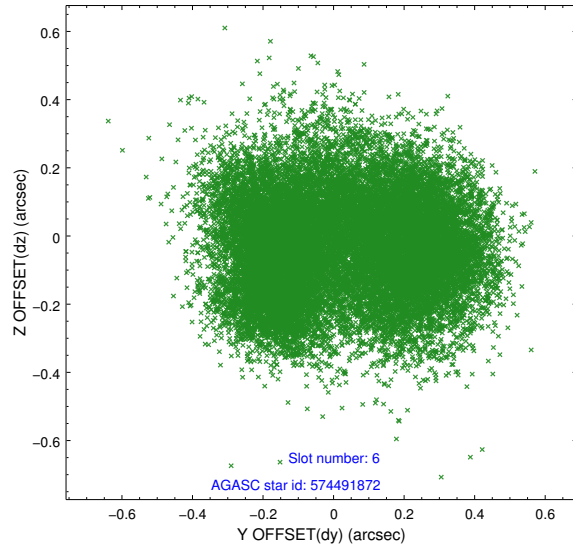
2.4.2 Slot 4



2.4.3 Slot 5

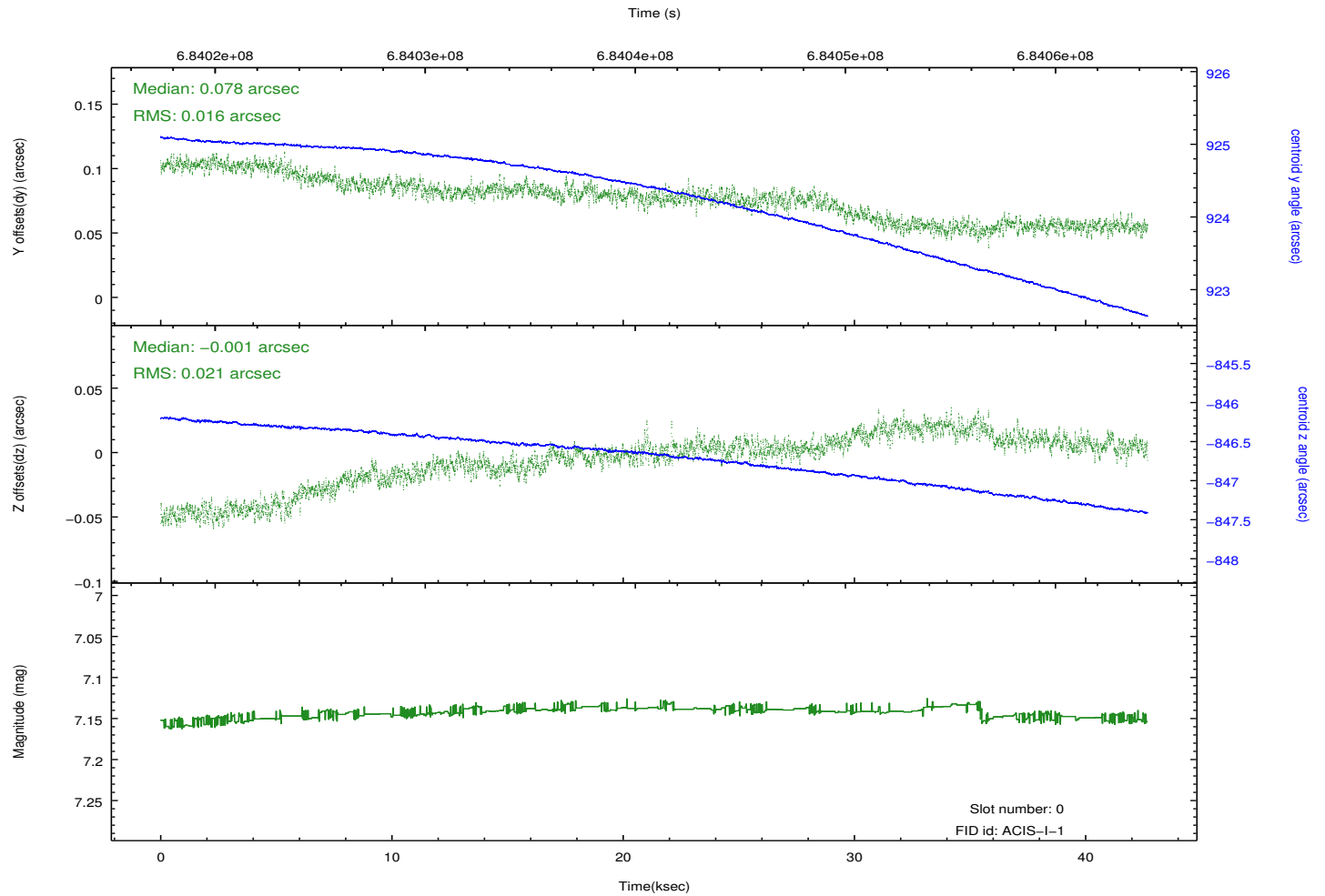
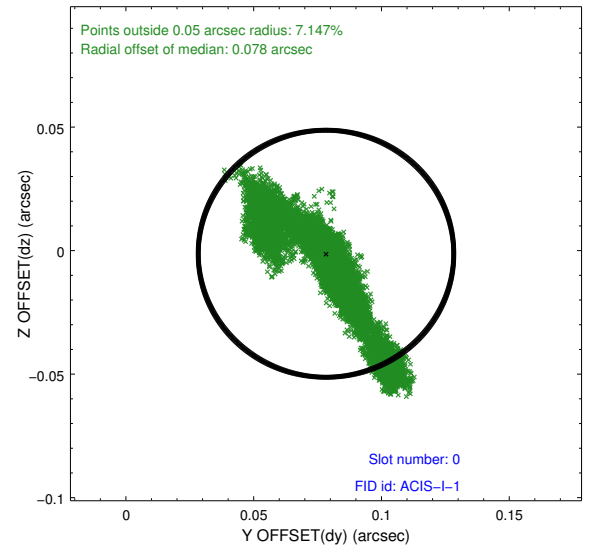
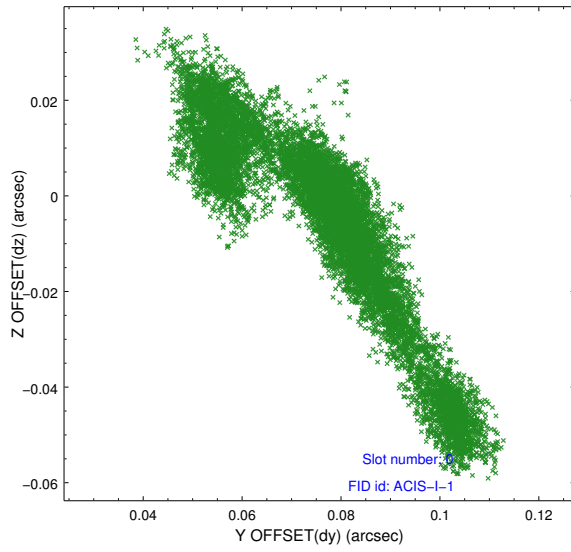


2.4.4 Slot 6

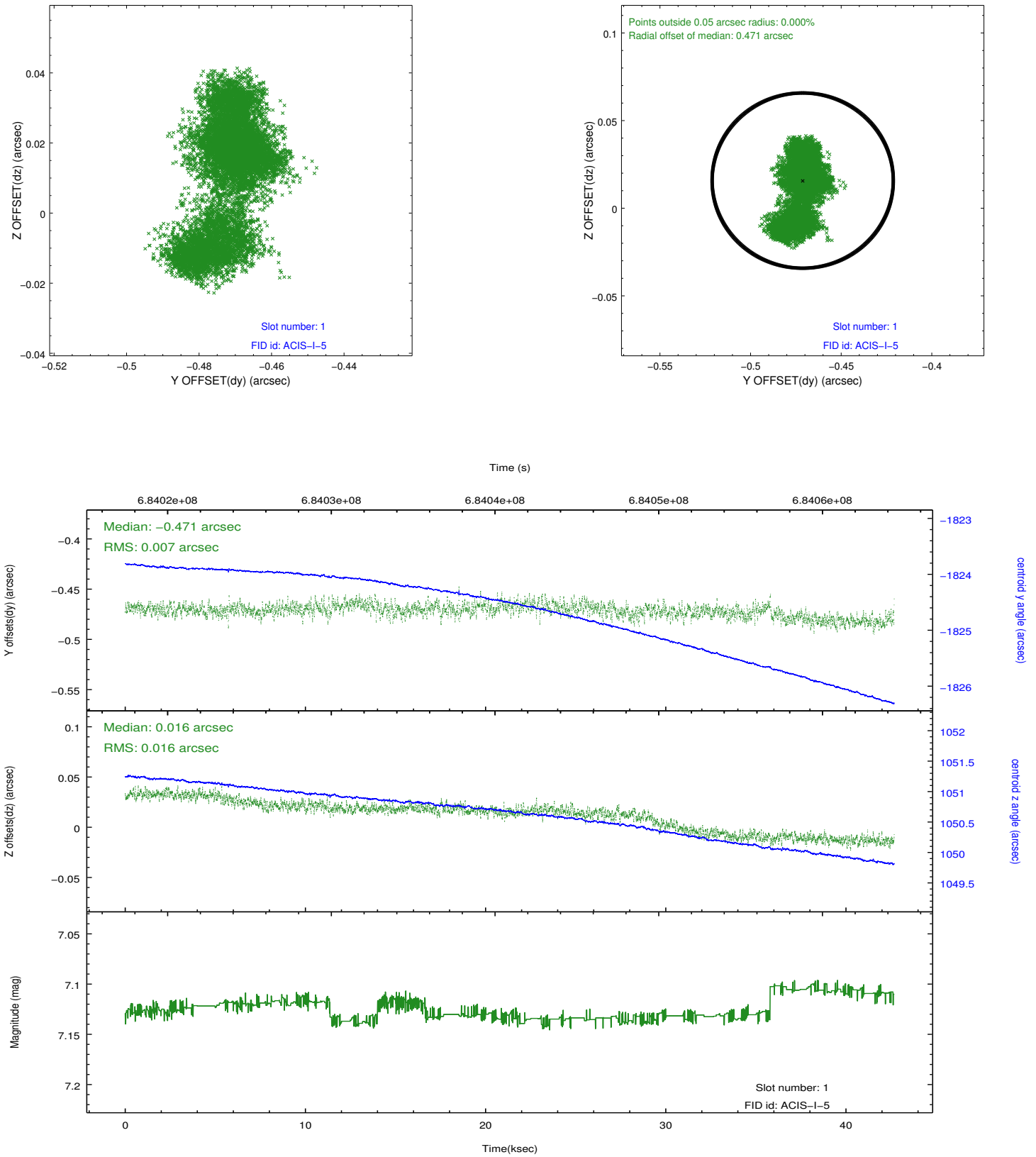


2.5 FID Slots

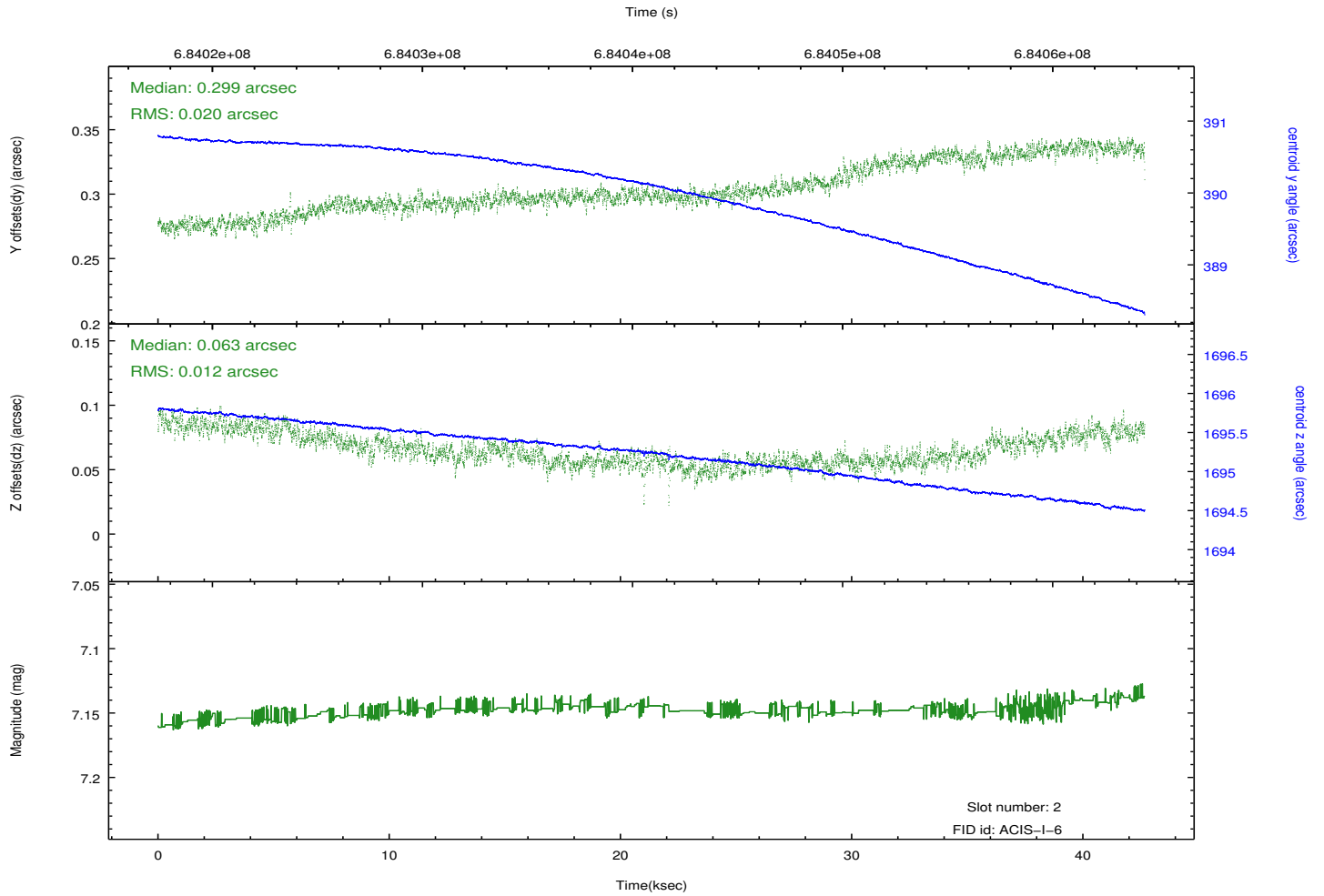
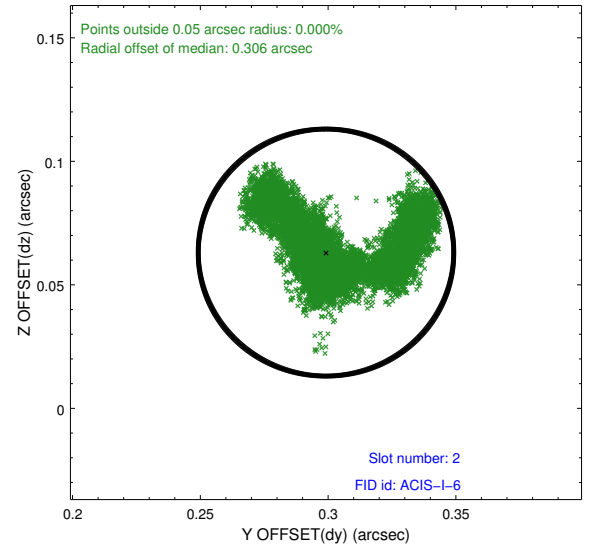
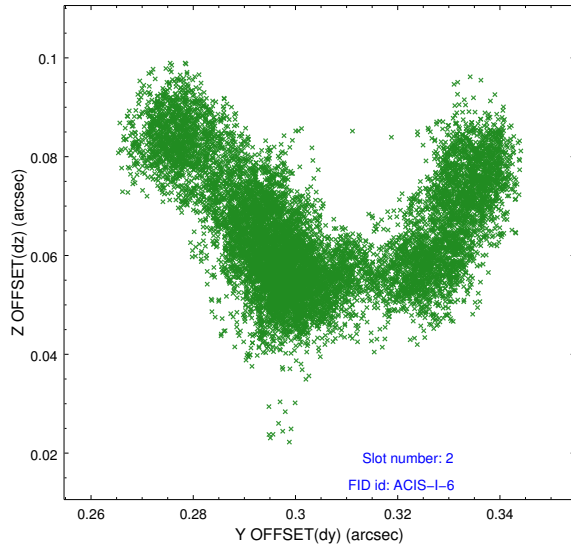
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2019.09.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	42.528900327206

A.2 Comments

Joint proposal with NOAO.

Two optional chips were dropped.

The guide star in slot 7 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this slot from the solution.