

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19739 - L2 Version 1
Chandra X-Ray Center

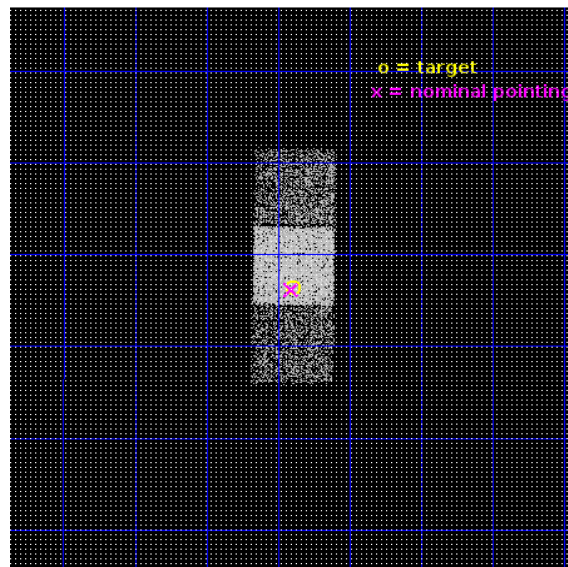
L2 Processing Date : Sep 28 2017

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1 Front

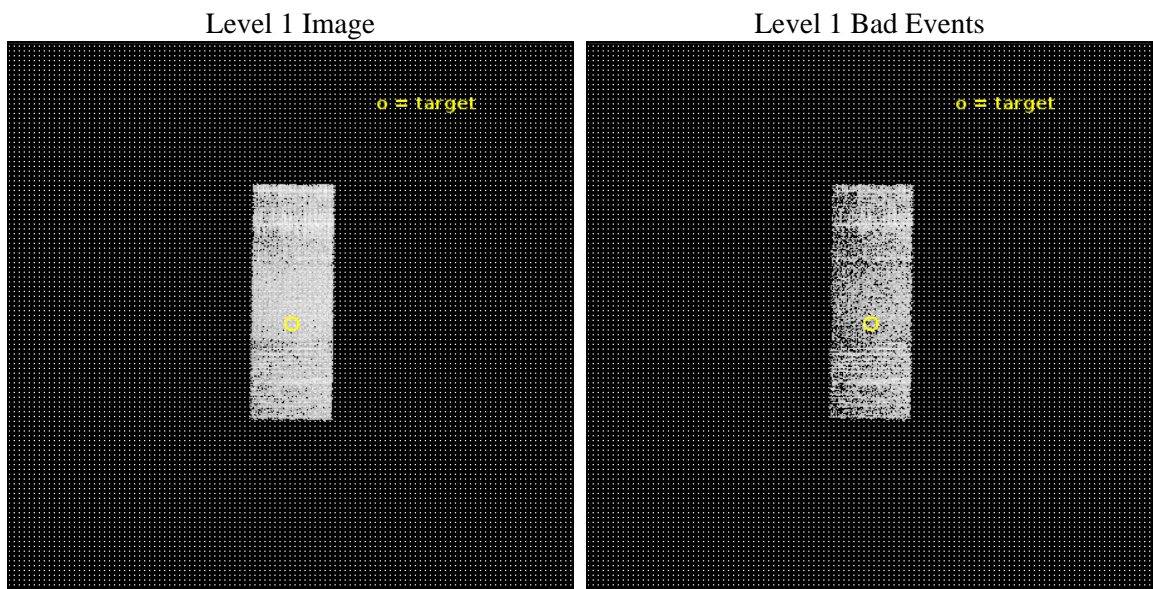
seq_num	703454	Sequence number
obs_id	19739	Observation id
title	A Chandra Snapshot Survey of Extraordinarily Luminous and Heavily Obscured Quasars from the WISE Survey	Proposal title
observer	Gordon Garmire	Principal investigator
object	W2201+0226	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	330.3475	Observer's specified target RA [deg]
dec_targ	2.439389	Observer's specified target Dec [deg]
ra_nom	330.35169966483	Nominal RA [deg]
dec_nom	2.4359070476906	Nominal Dec [deg]
roll_nom	270.58893157119	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3115.2581193447	Sum of GTIs [s]
livetime	3074.5549785958	Livetime [s]
ontime6	3115.217079401	Sum of GTIs [s]
ontime7	3115.2581193447	Sum of GTIs [s]
ontime8	3112.0350091457	Sum of GTIs [s]
l2events	14876	Number of level 2 events



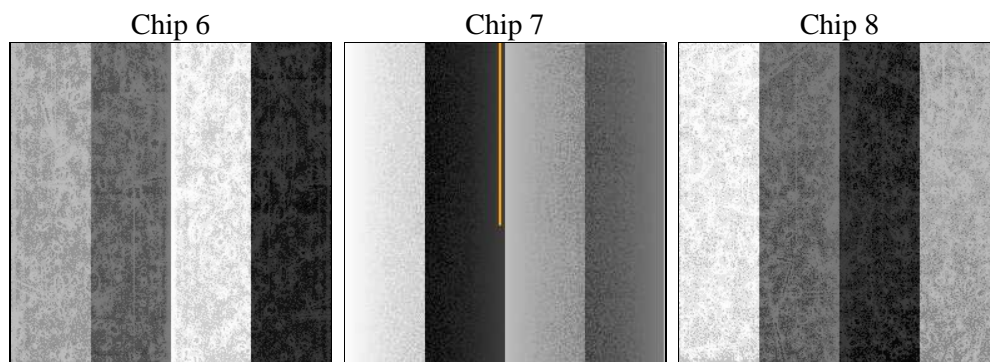
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	3115.2581193447	Sum of GTIs [s]
caldsver	4.7.6	 	ontime6	3115.217079401	Sum of GTIs [s]
date	2017-09-29T02:49:14	Date and time of file creation	ontime7	3115.2581193447	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	3112.0350091457	Sum of GTIs [s]
			l1events	69853	Number of level 1 events

2.1.4 Events

	ccd 6	ccd 7	ccd 8
level 1 events	19451	25589	24813
rejected events	17216	14548	17895
rejected %	88%	56%	72%

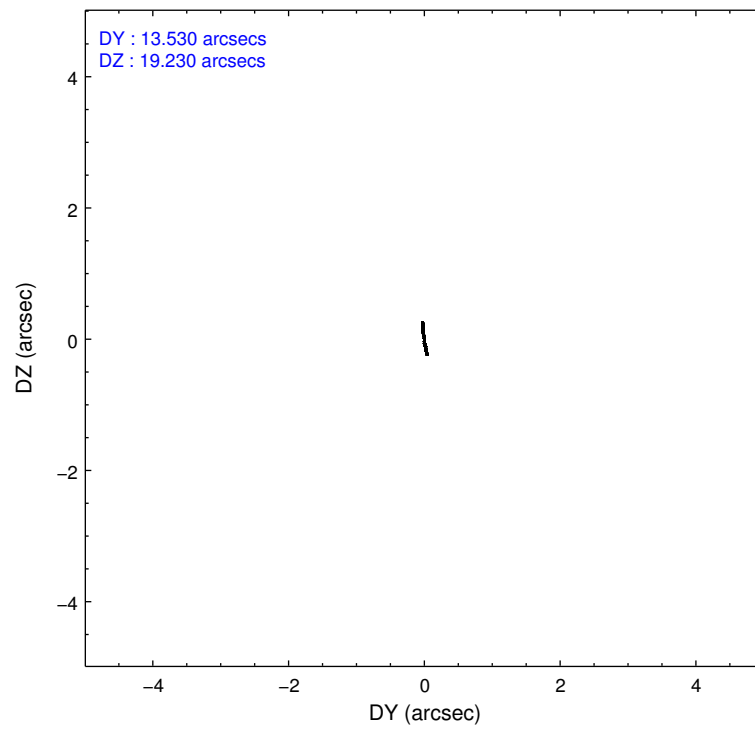
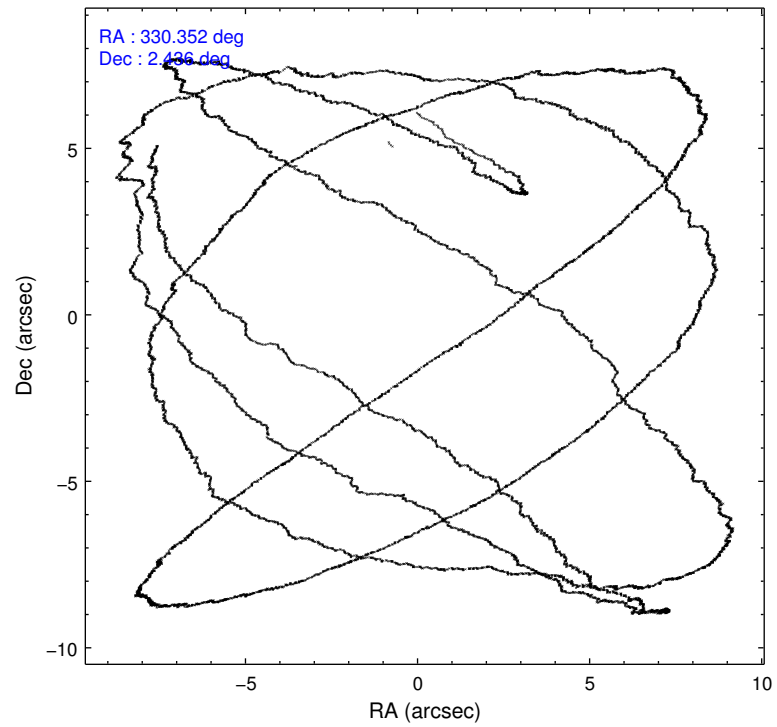
	ccd 6	ccd 7	ccd 8
grade 0 events	760	935	2018
	3%	3%	8%
grade 1 events	5	30	21
	0%	0%	0%
grade 2 events	488	2373	1646
	2%	9%	6%
grade 3 events	229	854	757
	1%	3%	3%
grade 4 events	236	830	698
	1%	3%	2%
grade 5 events	984	2533	1458
	5%	9%	5%
grade 6 events	526	6063	1804
	2%	23%	7%
grade 7 events	16223	11971	16411
	83%	46%	66%

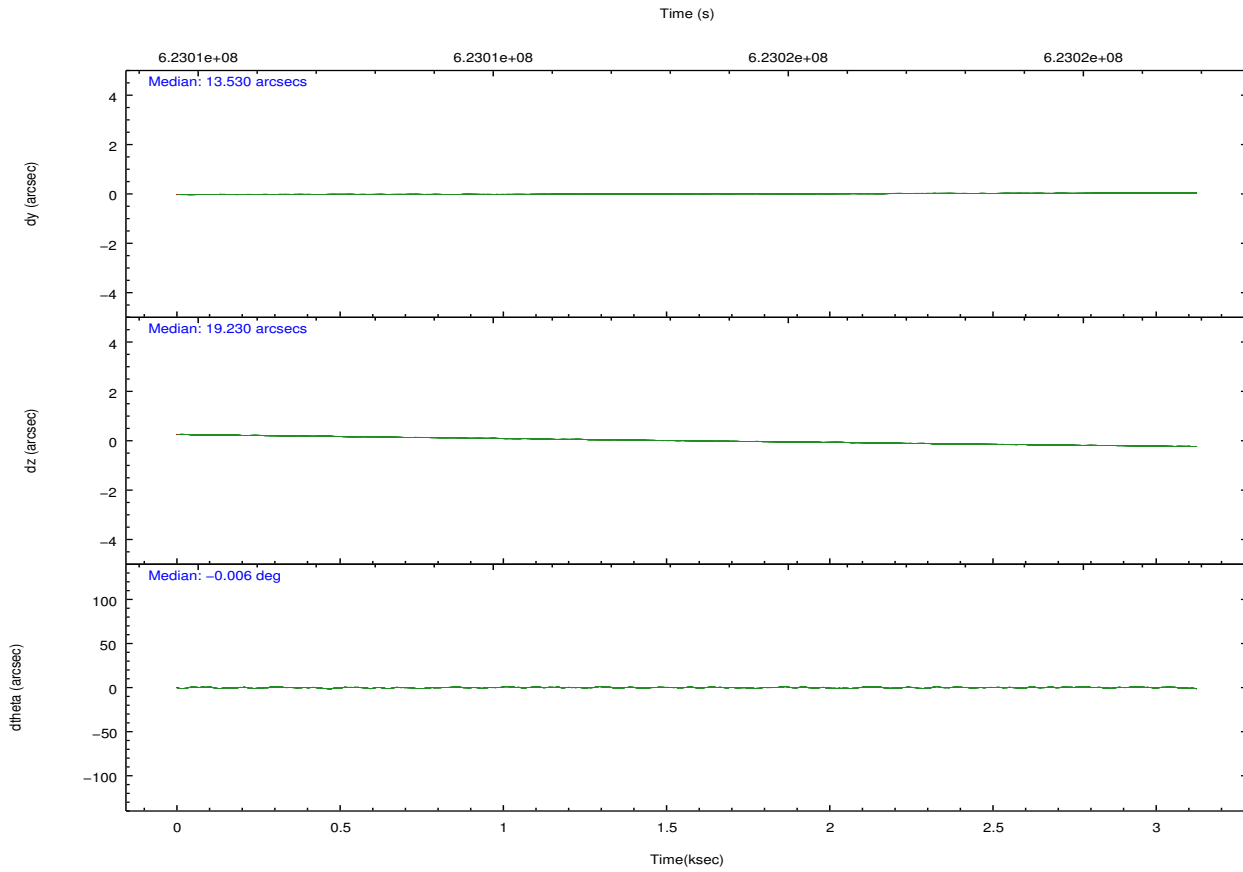
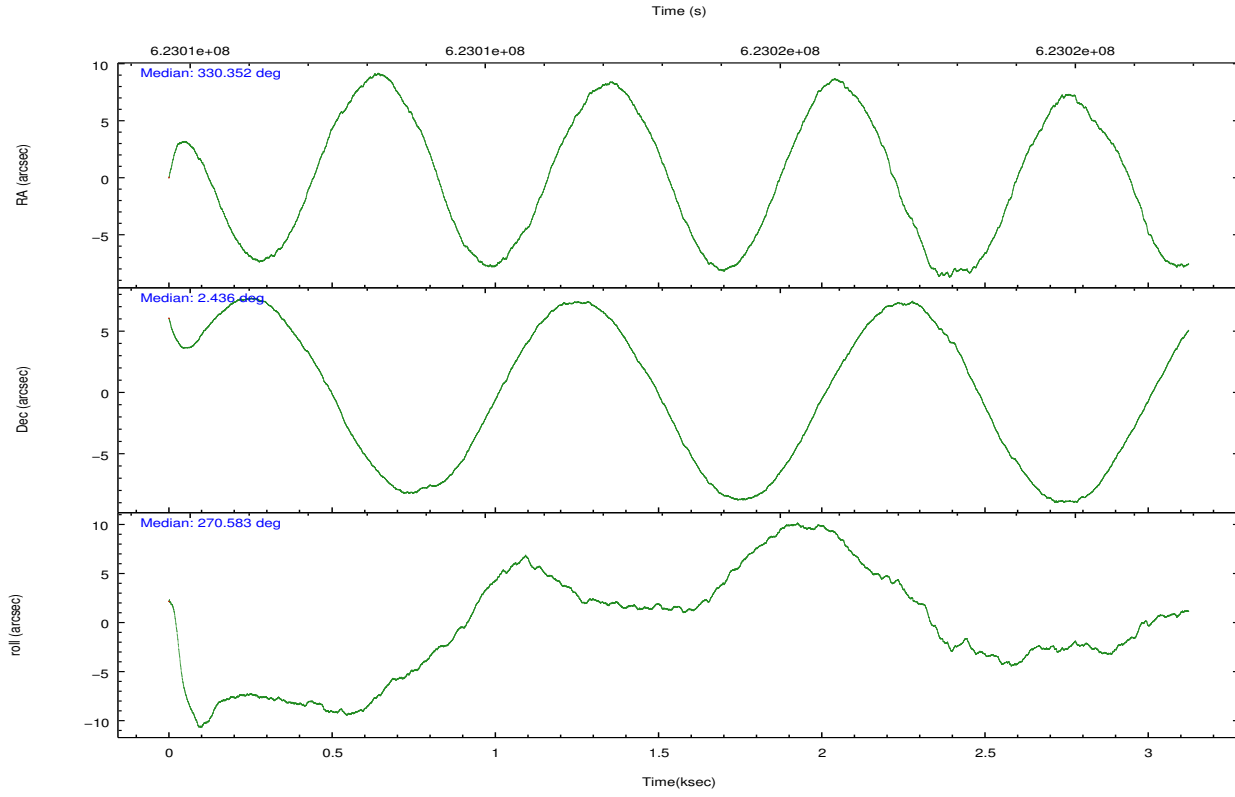
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-678	ACIS-678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	330.337448	330.3516996648263
[deg] Pointing Dec	2.459298	2.435907047690567
[deg] Pointing Roll	270.432828	270.5889315711854
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1425803651734
[mm] SIM translation stage offset	0	0.01005778216563158
[s] Observation start time (MET)	623013213.184000	623012031.5494699
Observation start date	2017-09-28T19:12:24	2017-09-28T18:53:51
[s] Observation end time (MET)	623016213.184000	623017224.71227
Observation end date	2017-09-28T20:02:24	2017-09-28T20:20:24
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



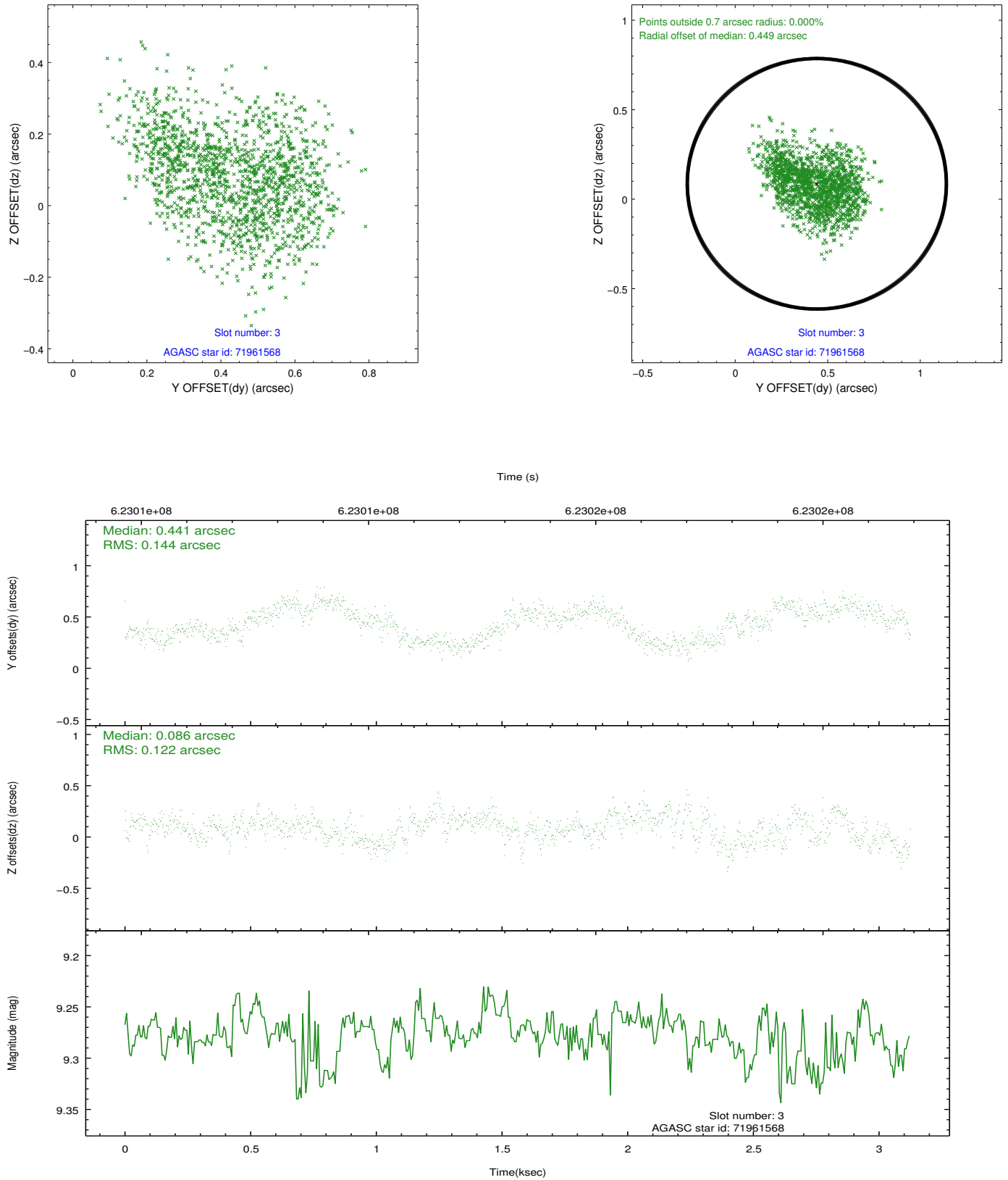


Slot Statistics

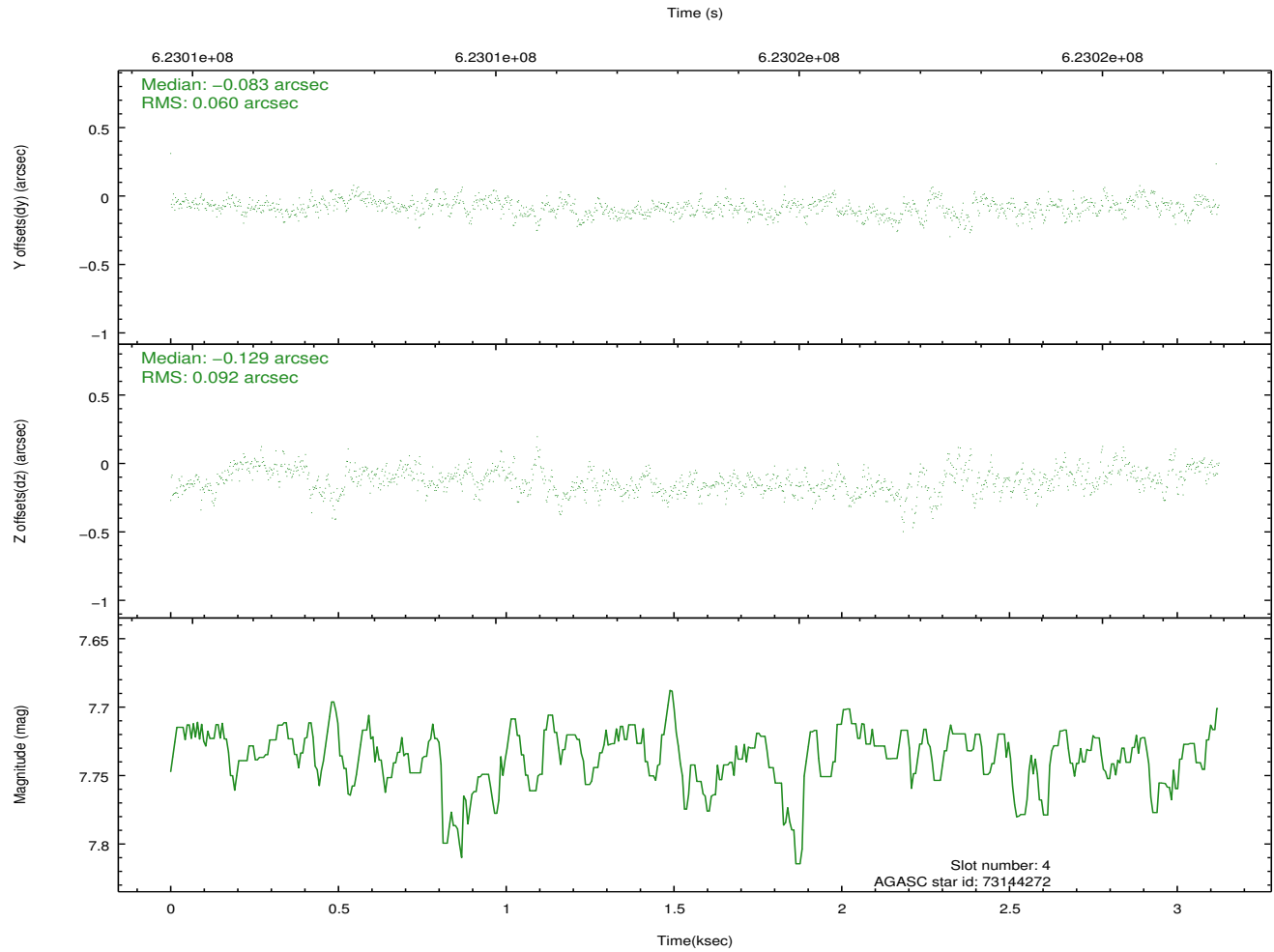
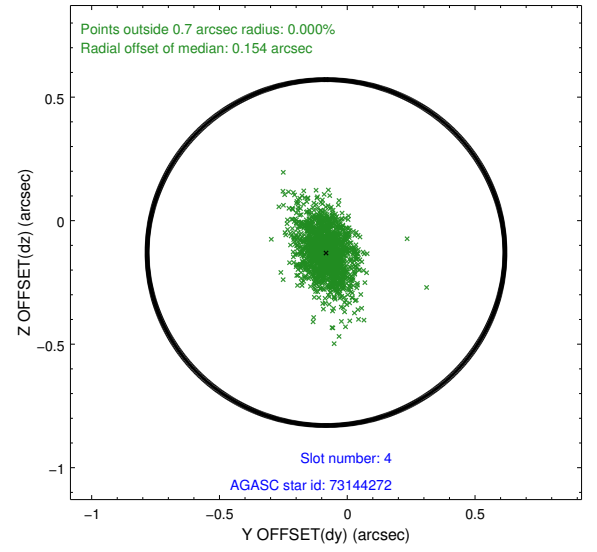
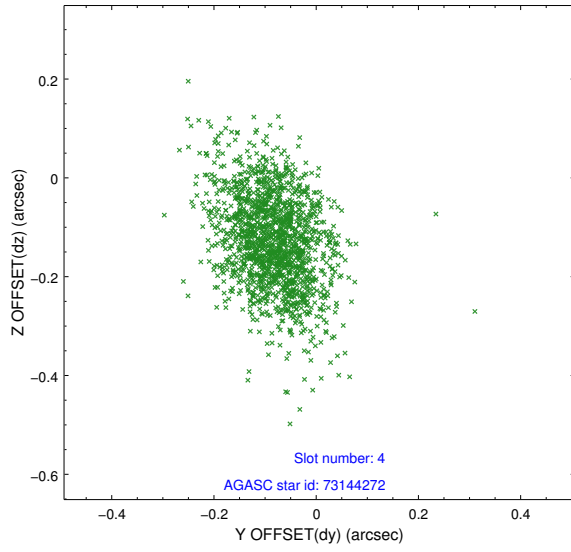
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.09	763	-0.073	0.018	0.010	0.017	0.000000	0.000000	929.51	-1736.28
1	FID		ACIS-S-4	7.11	763	0.169	0.034	0.006	0.011	0.000000	0.000000	2148.27	165.79
2	FID		ACIS-S-6	7.24	763	-0.119	-0.040	0.008	0.014	0.000000	0.000000	397.99	805.37
3	GUIDE	used	71961568	9.28	1524	0.441	0.086	0.208	0.303	329.905903	2.723980	-963.68	-1544.25
4	GUIDE	used	73144272	7.73	1525	-0.083	-0.129	0.114	0.198	330.176539	1.841075	2221.49	-596.48
5	GUIDE	used	73534528	9.01	1521	0.096	0.598	0.140	0.242	330.170750	2.792324	-1201.26	-589.92
6	GUIDE	used	73548168	9.64	1523	-0.446	-0.180	0.207	0.337	330.922019	3.040218	-2076.85	2116.91
7	GUIDE	used	73143608	9.38	1524	0.005	-0.367	0.174	0.274	330.899930	1.803622	2375.28	2008.46

2.4 Star Slots

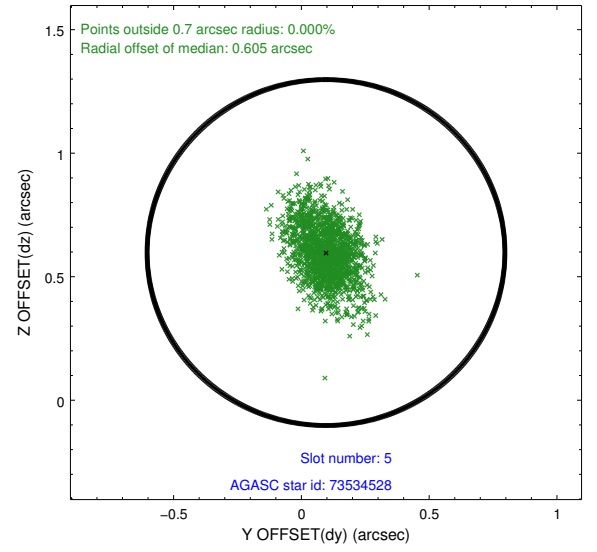
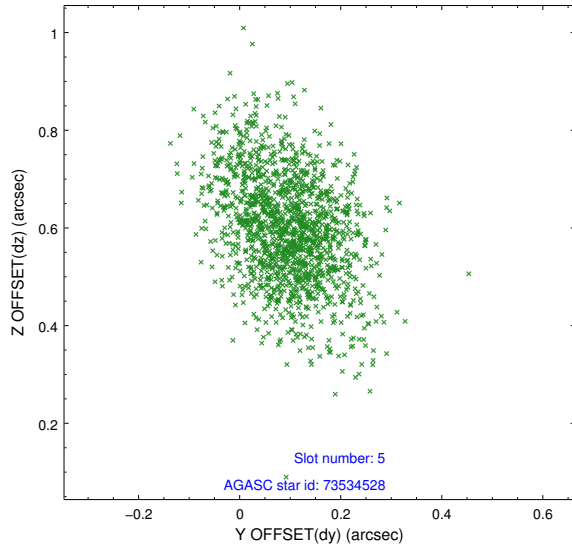
2.4.1 Slot 3



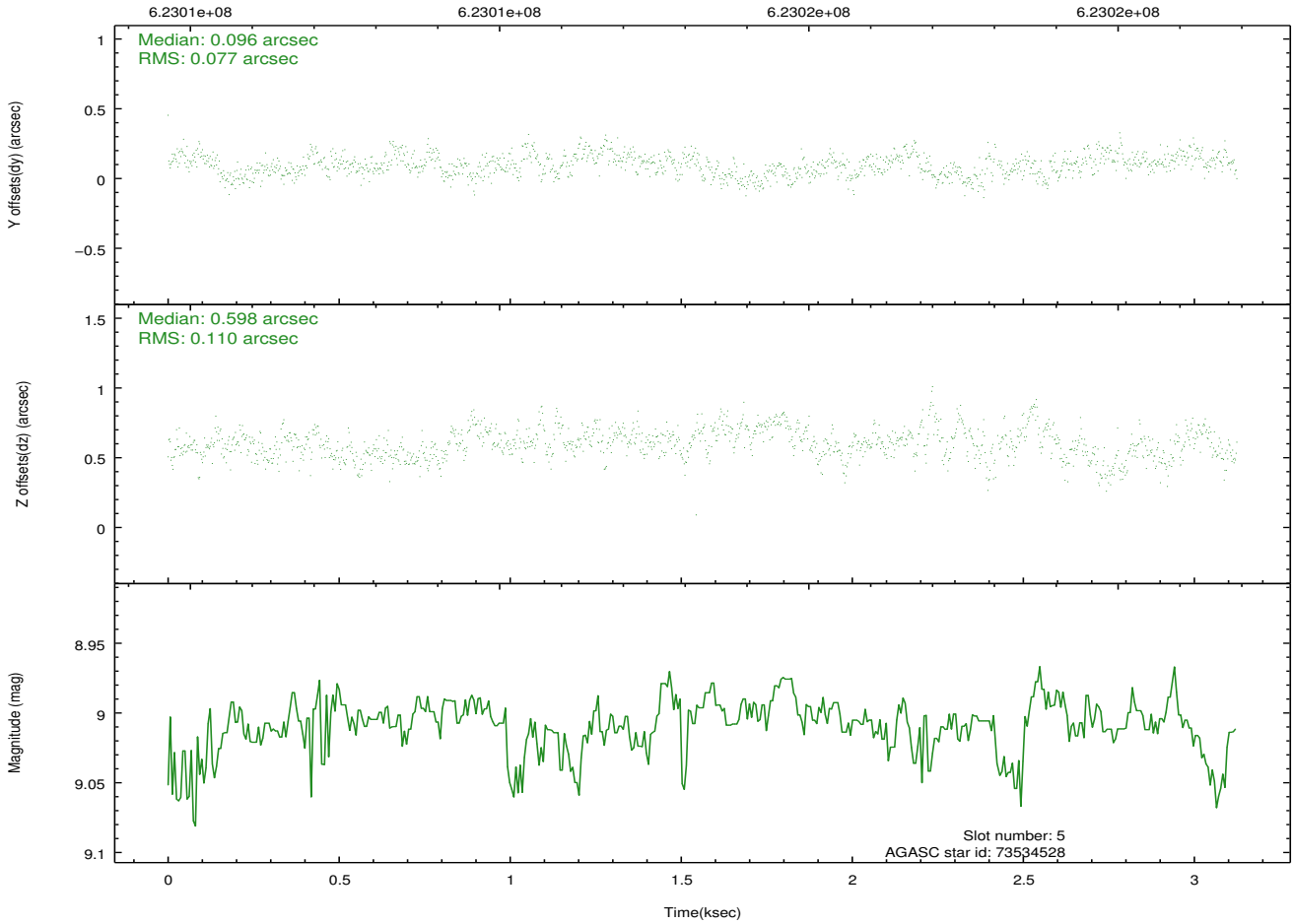
2.4.2 Slot 4



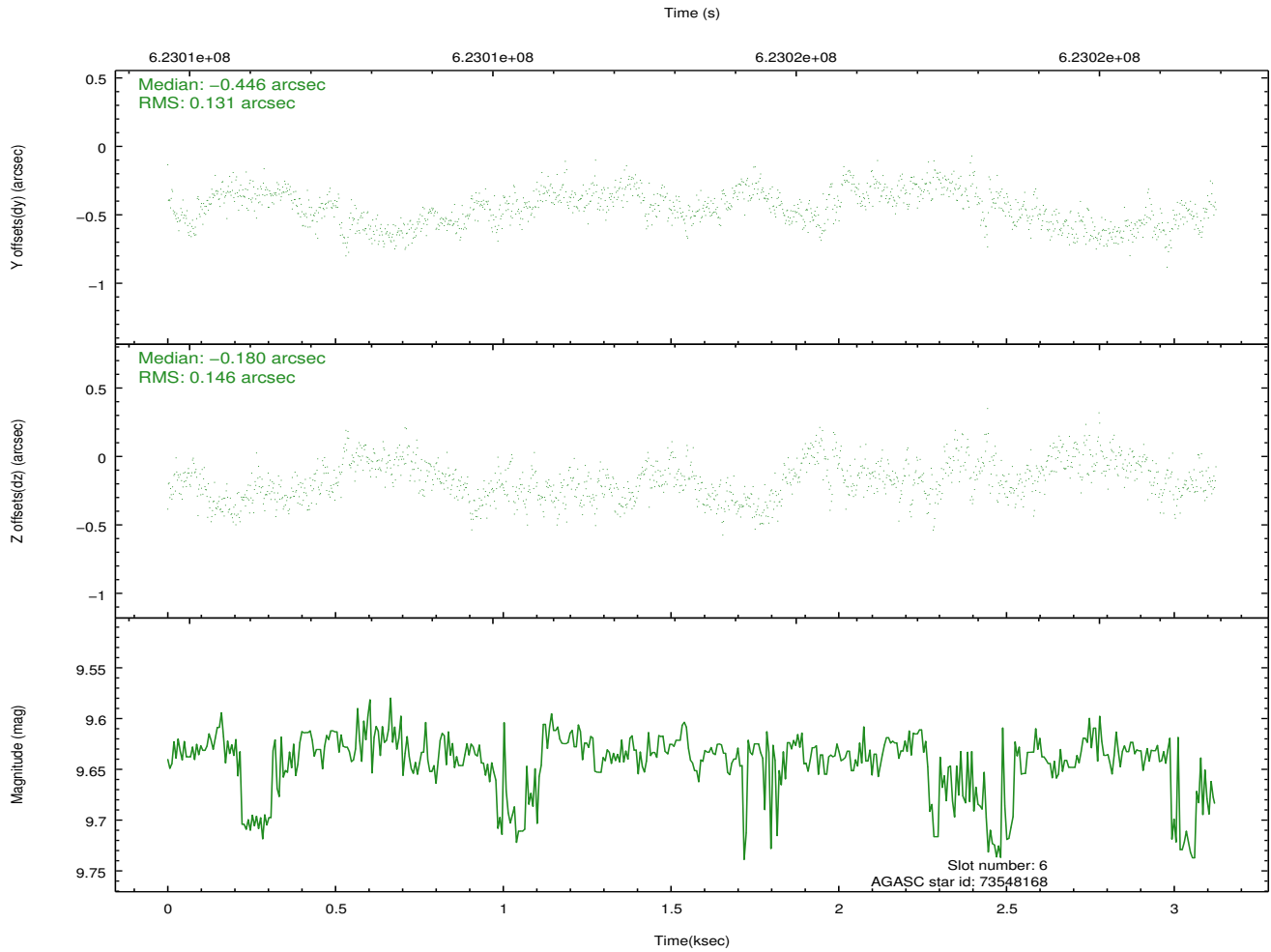
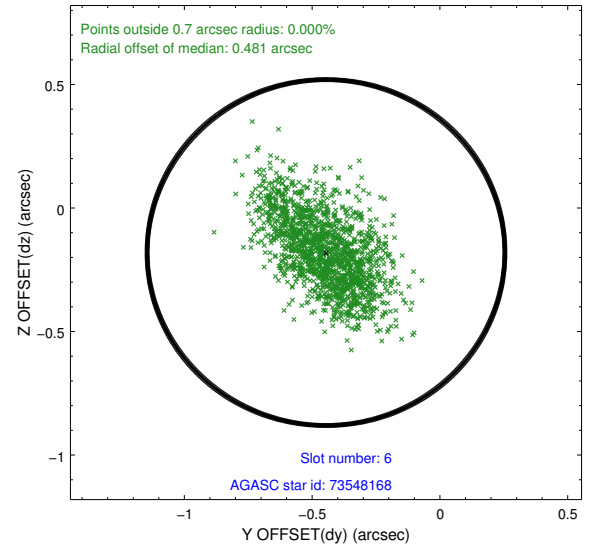
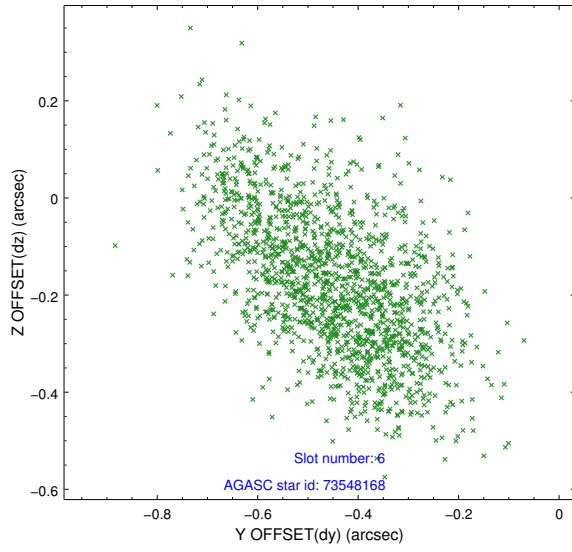
2.4.3 Slot 5



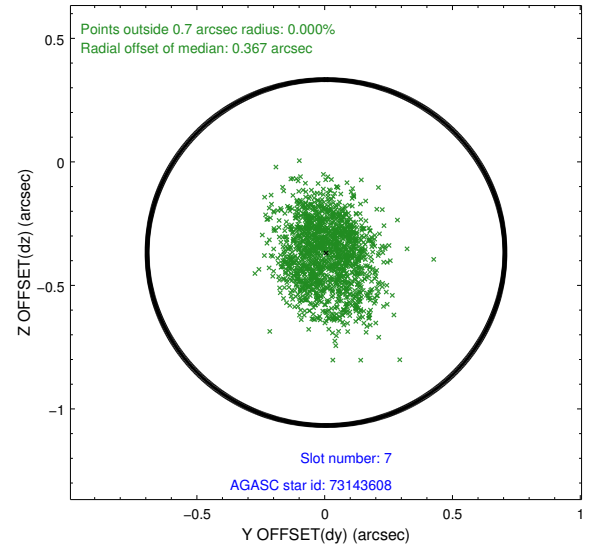
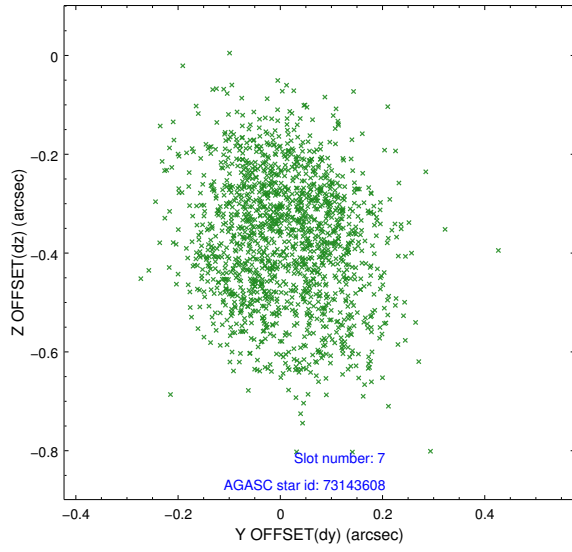
Time (s)



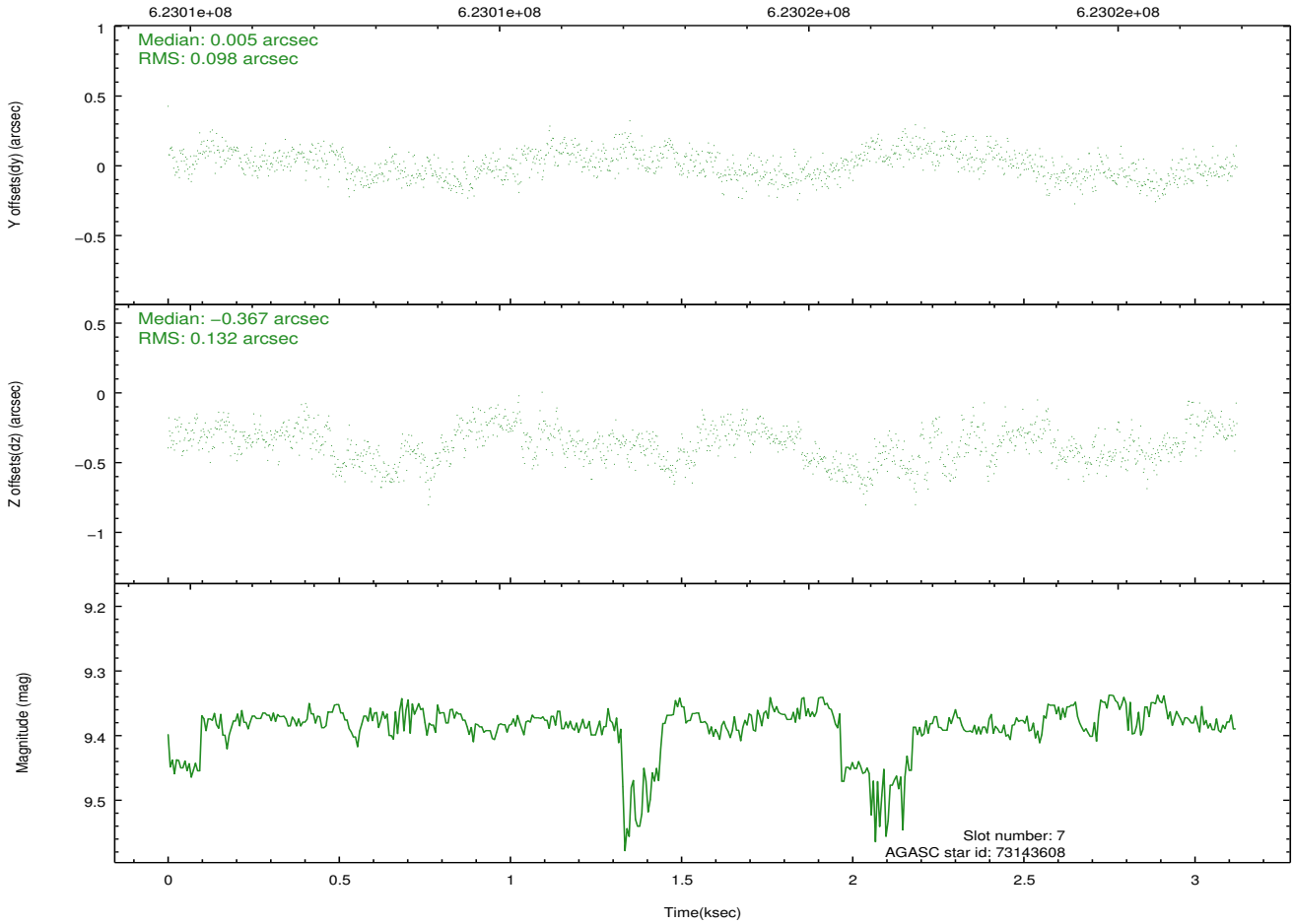
2.4.4 Slot 6



2.4.5 Slot 7

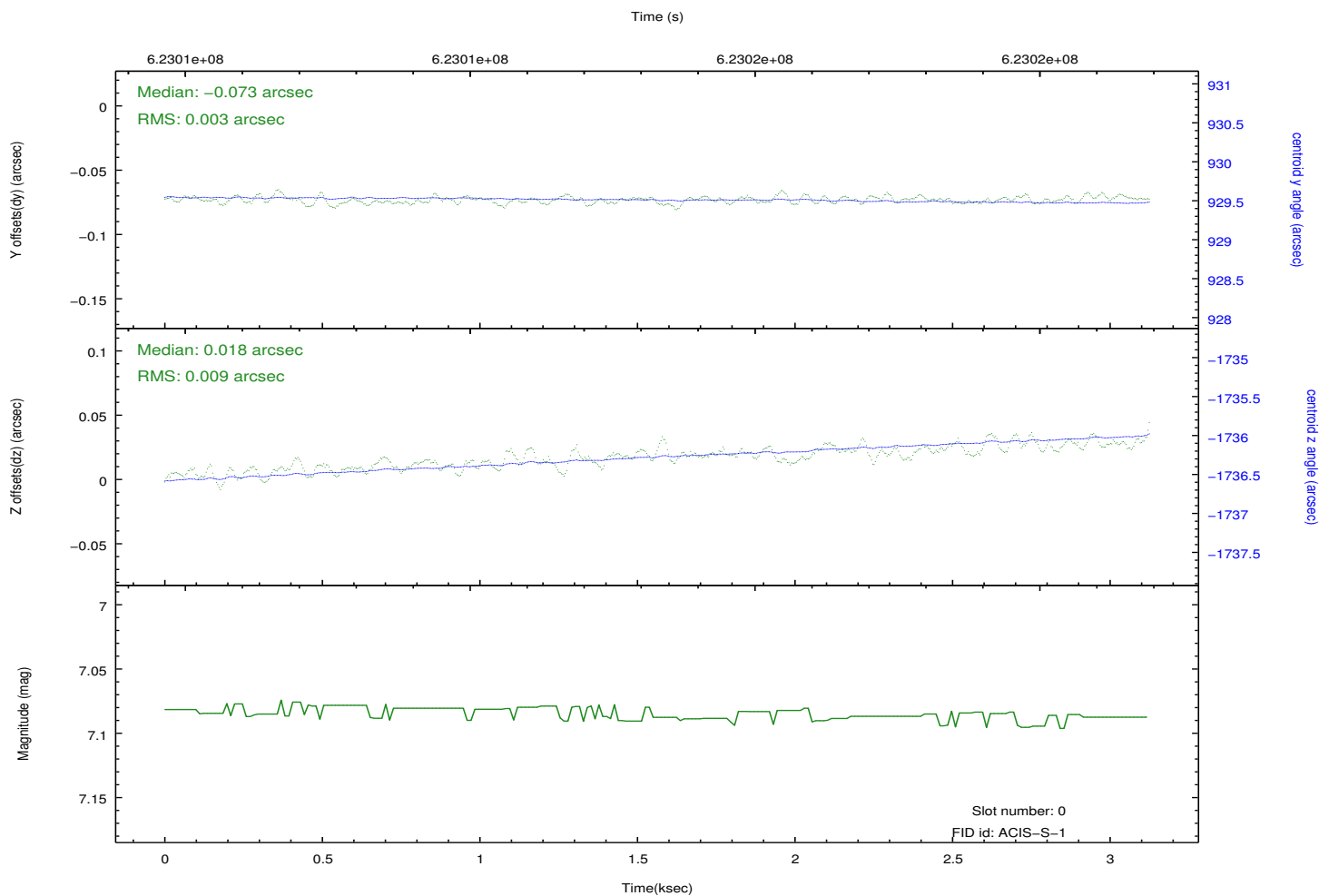
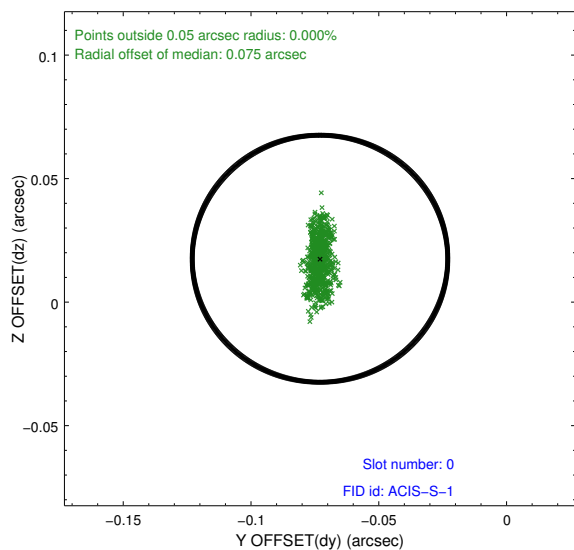
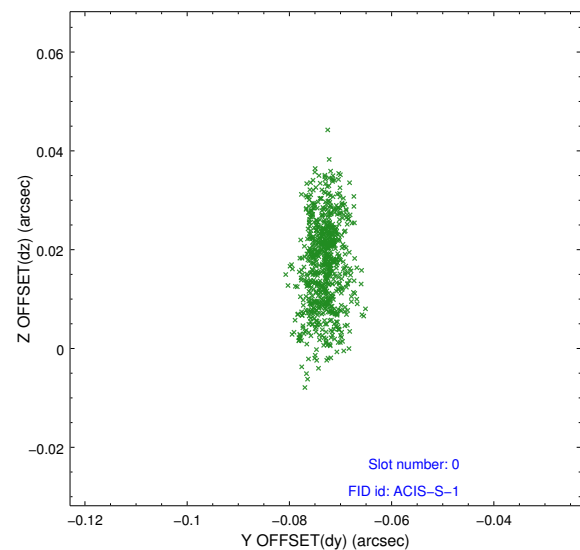


Time (s)

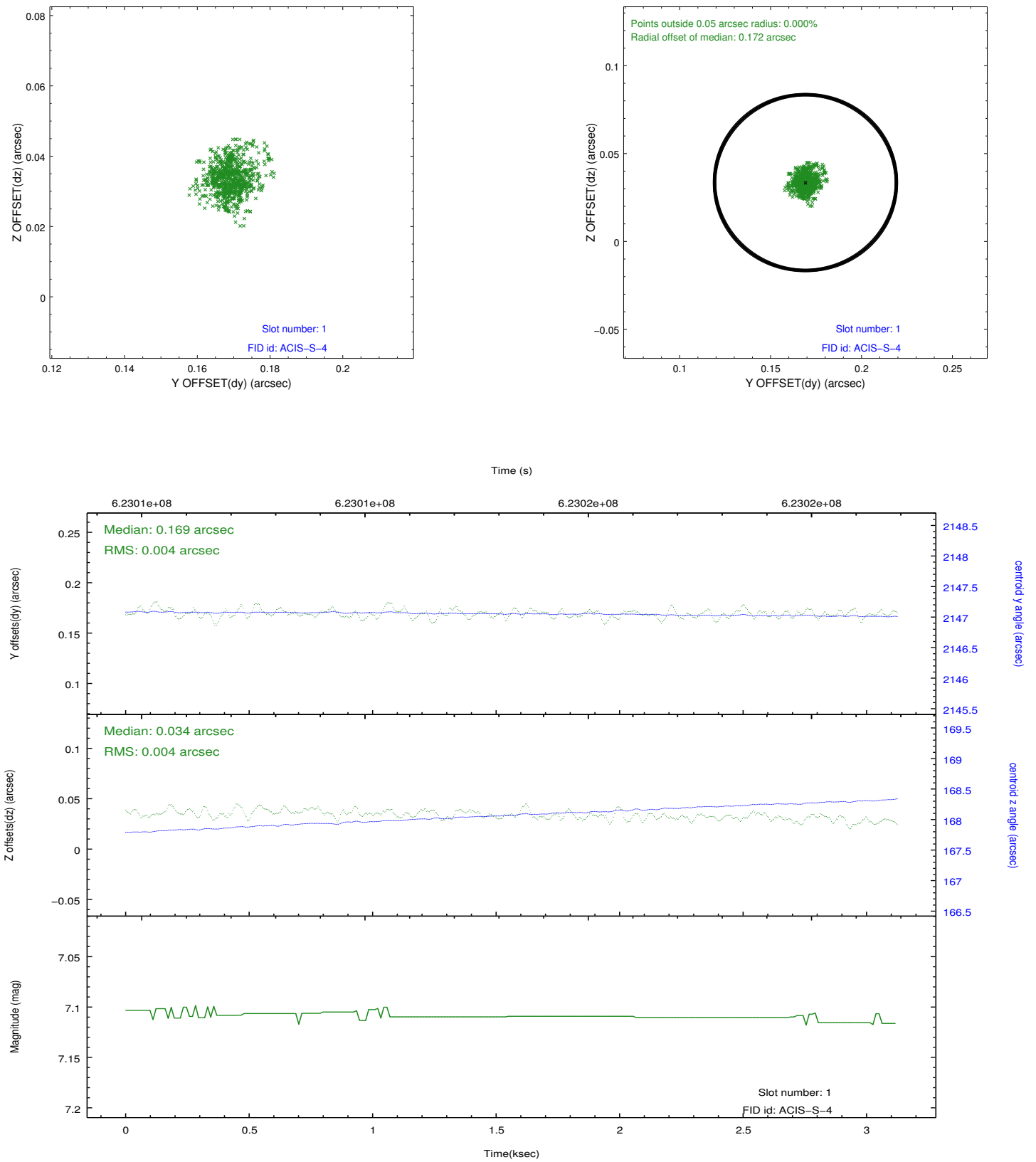


2.5 FID Slots

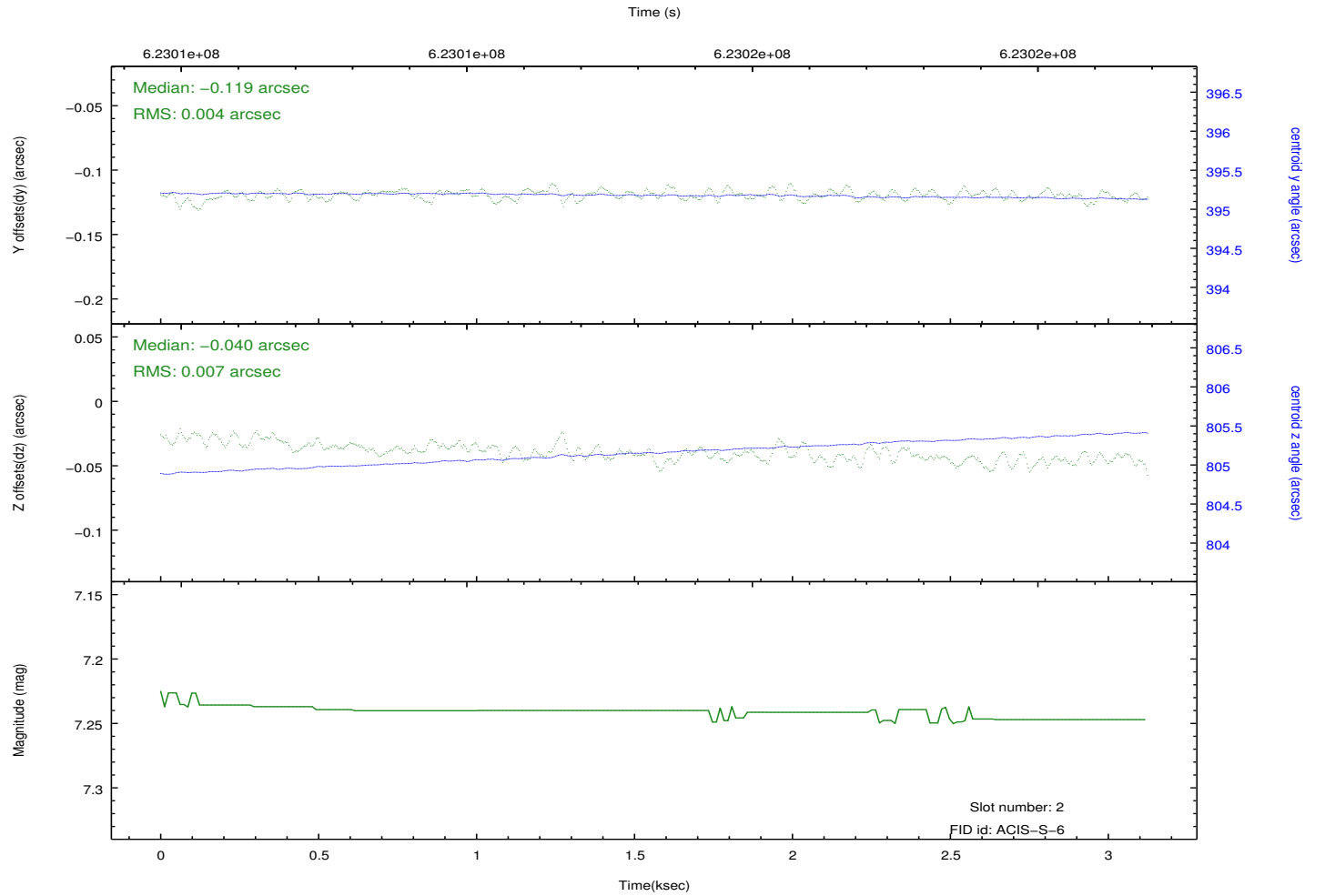
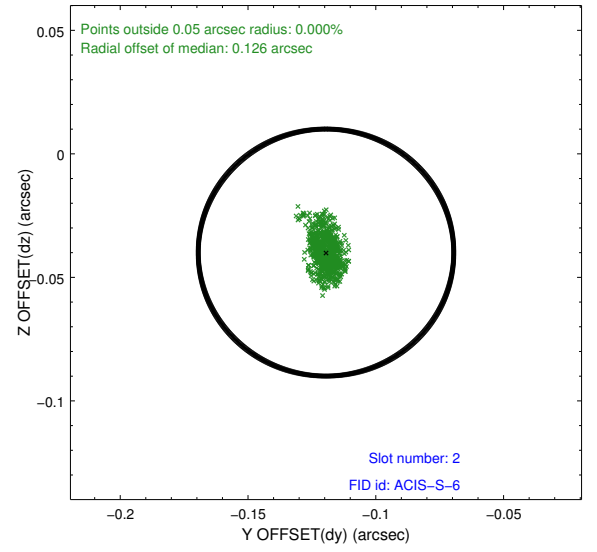
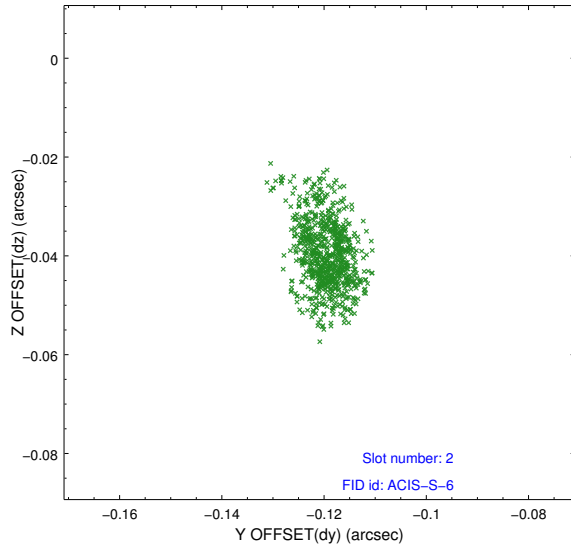
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2017.09.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.1152581193447

A.2 Comments