

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 17720 - L2 Version 1
Chandra X-Ray Center

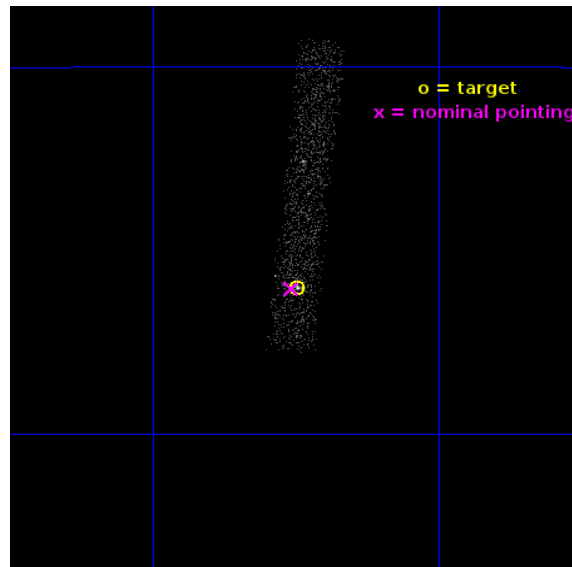
L2 Processing Date : Mar 9 2016

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1 Front

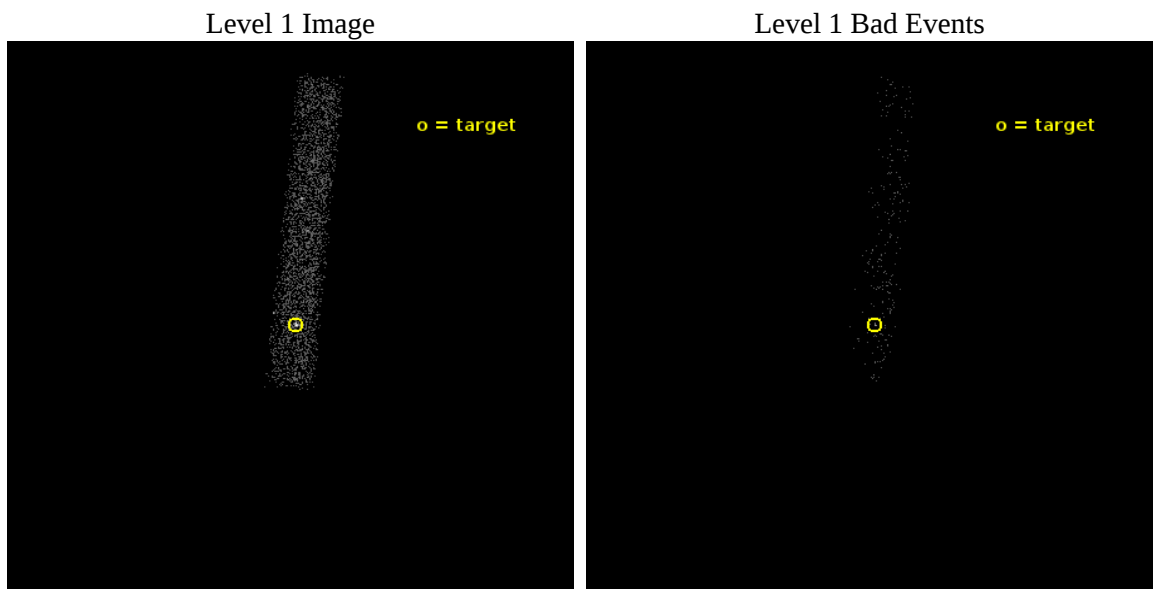
seq_num	201031	Sequence number
obs_id	17720	Observation id
title	Phase-variable X-ray Emission in the Eccentric O9.5V Binary Sigma Orionis	Proposal title
observer	Prof Frederick Walter	Principal investigator
object	sigma Orionis	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	84.686667	Observer's specified target RA [deg]
dec_targ	-2.600028	Observer's specified target Dec [deg]
ra_nom	84.689291048977	Nominal RA [deg]
dec_nom	-2.6005924354532	Nominal Dec [deg]
roll_nom	275.53136891314	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3570.3459846973	Sum of GTIs [s]
livetime	3238.1153498071	Livetime [s]
ontime7	3570.3459846973	Sum of GTIs [s]
l2events	2986	Number of level 2 events



2 OBI

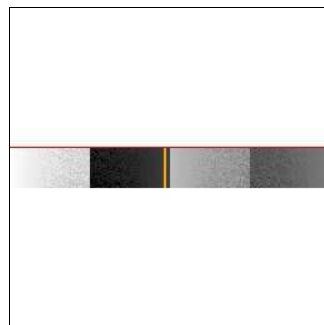
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3500.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	3570.3459846973	Sum of GTIs [s]
caldsver	4.7.0	 	ontime7	3570.3459846973	Sum of GTIs [s]
date	2016-03-09T08:05:59	Date and time of file creation	l1events	5110	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

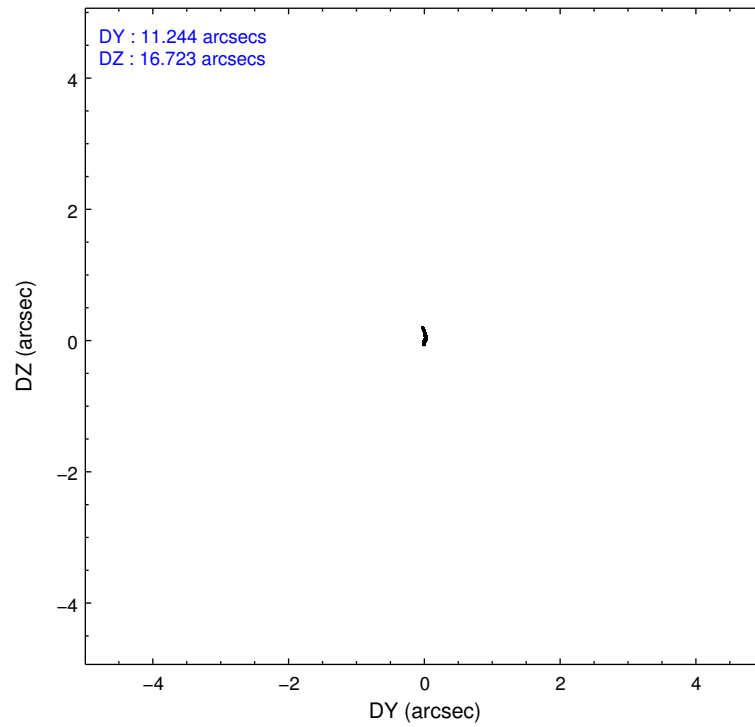
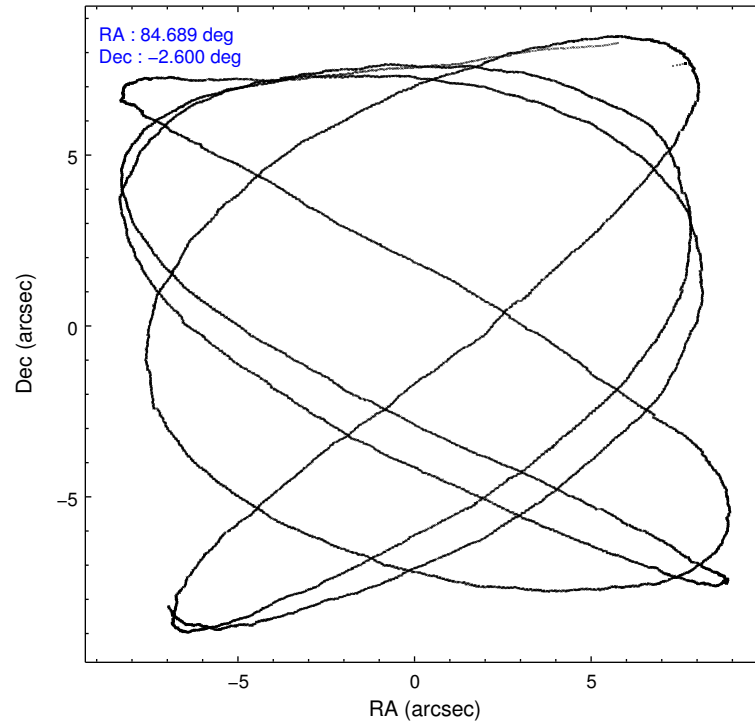
	ccd 7
level 1 events	5110
rejected events	2045
rejected %	40%

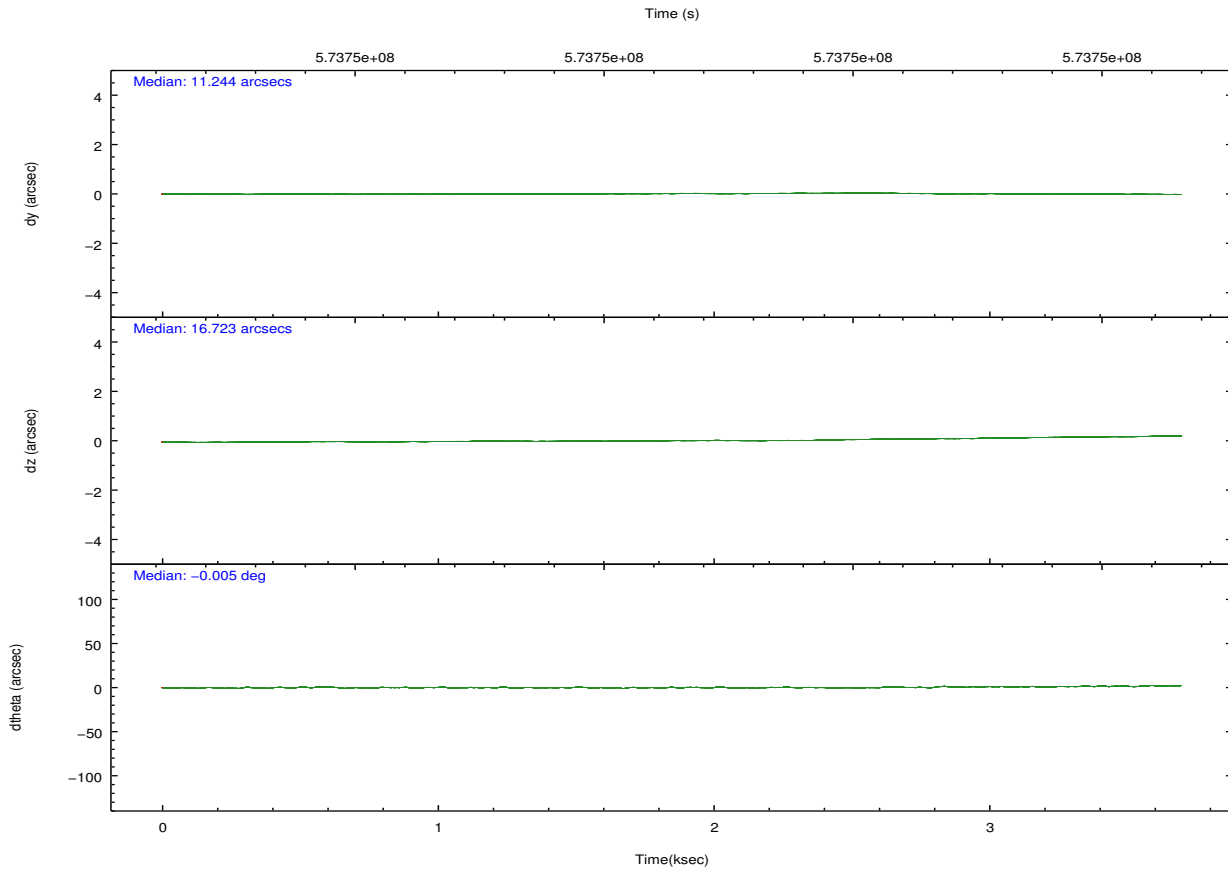
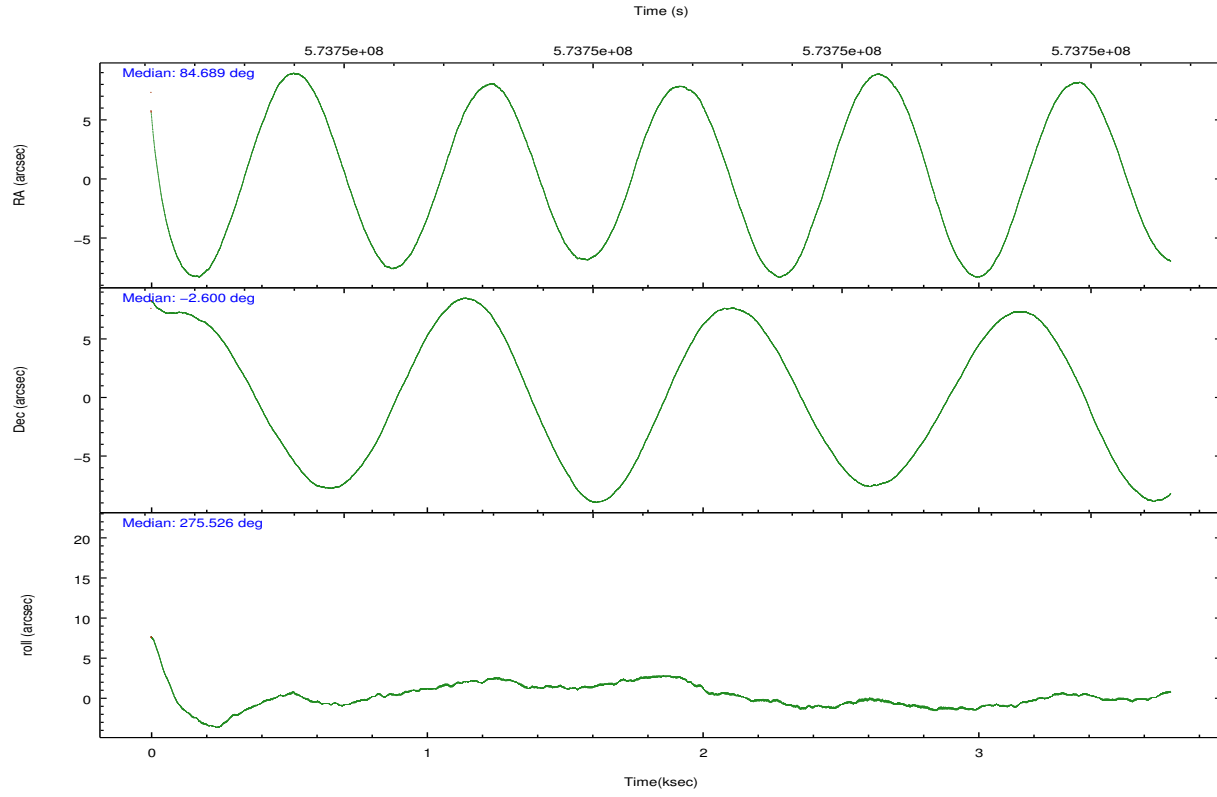
	ccd 7
grade 0 events	629
	12%
grade 1 events	3
	0%
grade 2 events	656
	12%
grade 3 events	391
	7%
grade 4 events	366
	7%
grade 5 events	425
	8%
grade 6 events	1025
	20%
grade 7 events	1615
	31%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	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
[deg] Pointing RA	84.673063	84.68929104897707	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-2.578482	-2.600592435453173	Subarray start row	449	449
[deg] Pointing Roll	275.373993	275.5313689131376	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
Phase constraints	Y	Y			
[d] Phase period	143.200000	143.200000			
[d] Phase epoch (MJD)	57456.000000	57456.000000			
Phase start	0.995000	0.995000			
Phase end	0.005000	0.005000			
Phase start error	0.010000	0.010000			
Phase end error	0.010000	0.010000			
[s] Observation start time (MET)	573748612.184000	573747435.25255			
Observation start date	2016-03-07T14:35:44	2016-03-07T14:17:15			
[s] Observation end time (MET)	573752112.184000	573752657.11535			
Observation end date	2016-03-07T15:34:04	2016-03-07T15:44:17			
Read mode	TIMED	TIMED			

2.3 Aspect



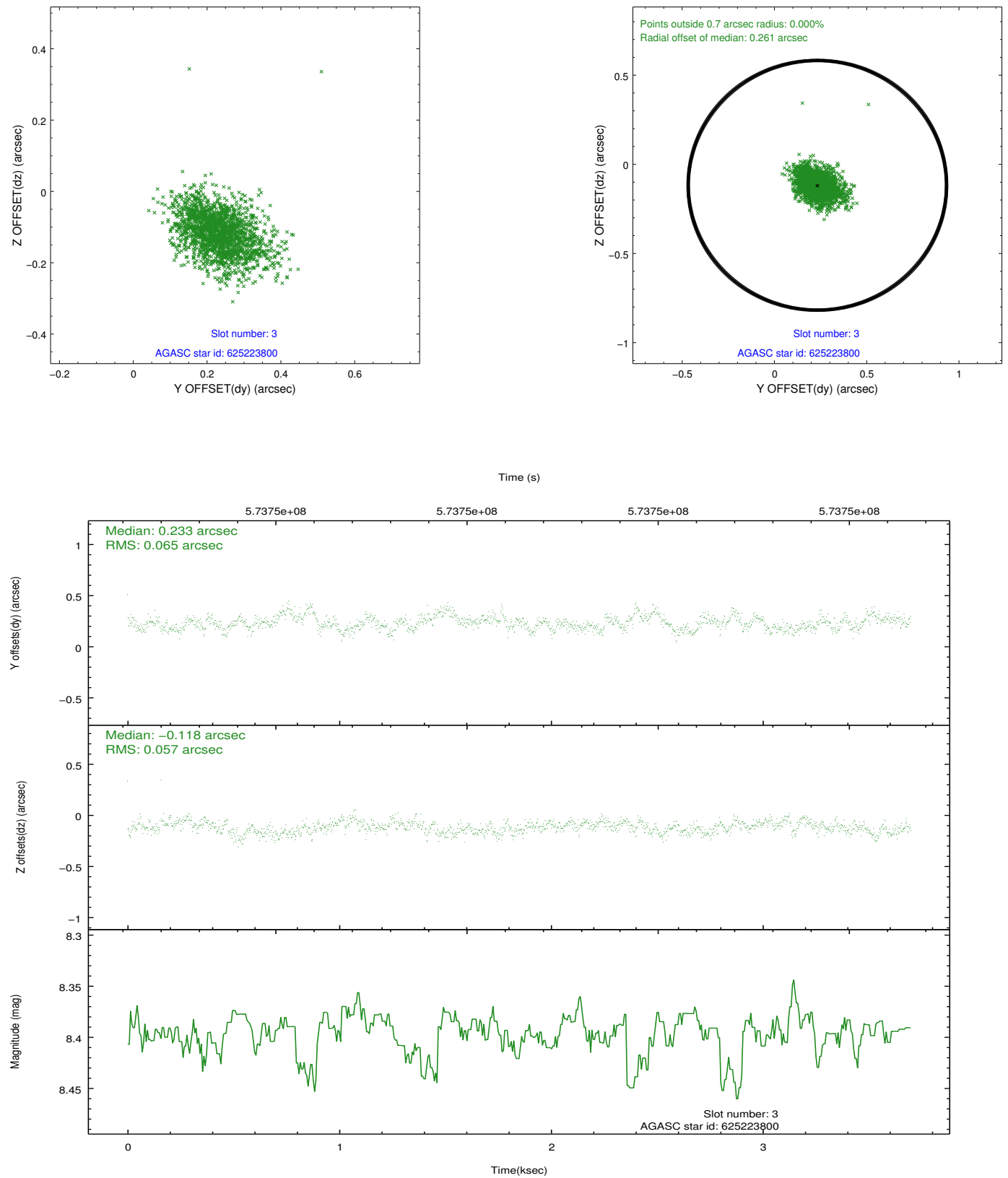


Slot Statistics

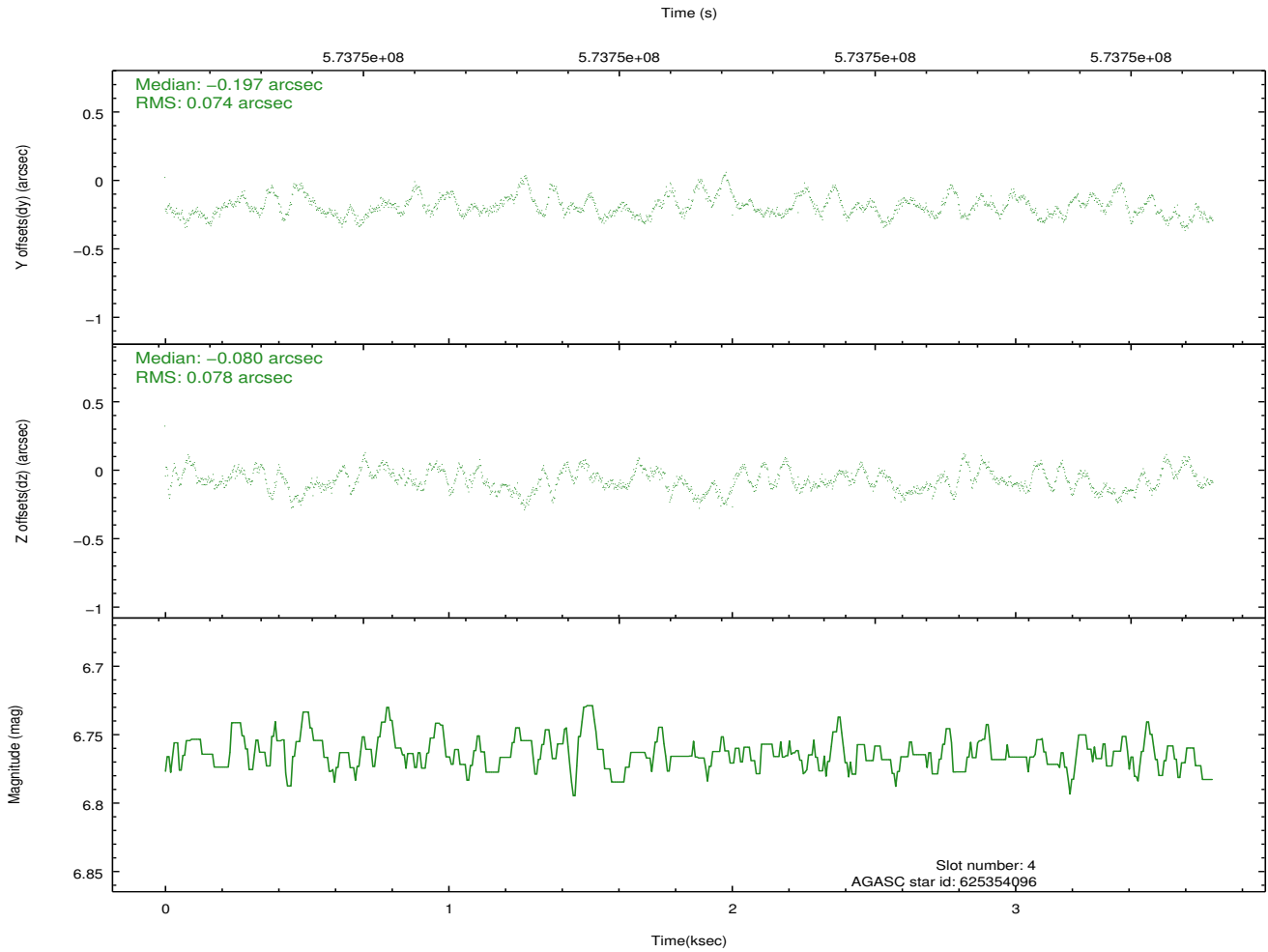
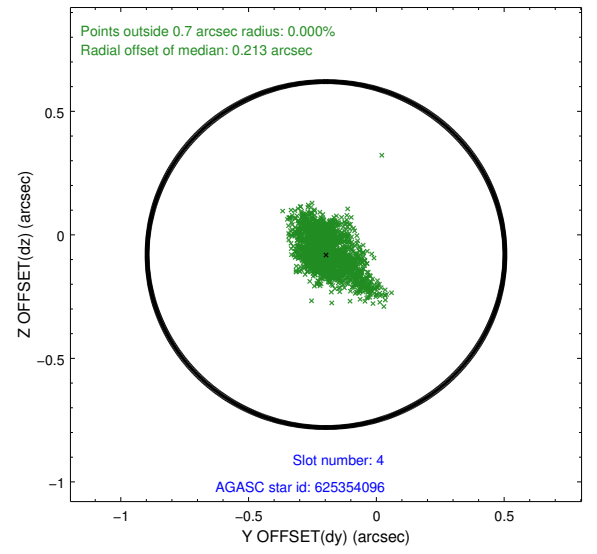
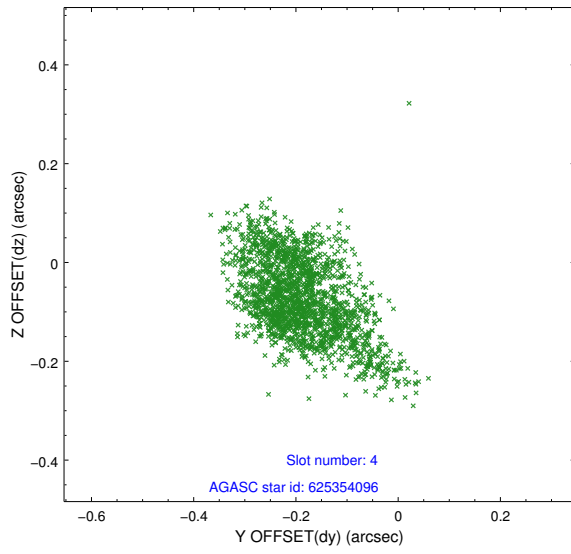
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.11	903	-0.143	-0.083	0.007	0.010	0.000000	0.000000	-764.24	-1738.26
1	FID		ACIS-S-4	7.22	903	0.378	0.091	0.005	0.009	0.000000	0.000000	2148.76	168.65
2	FID		ACIS-S-5	7.24	902	-0.266	-0.000	0.006	0.011	0.000000	0.000000	-1815.04	164.13
3	GUIDE	used	625223800	8.39	1804	0.233	-0.118	0.090	0.149	84.220234	-2.967062	1241.39	-1751.47
4	GUIDE	used	625354096	6.76	1805	-0.197	-0.080	0.110	0.194	85.155401	-2.825234	1047.92	1642.98
5	GUIDE	used	625226656	8.28	1804	-0.203	0.091	0.081	0.130	84.127450	-1.983827	-2313.92	-1752.84
6	GUIDE	used	625224136	7.77	1805	0.328	-0.052	0.093	0.163	84.175062	-3.294133	2397.49	-2023.78
7	GUIDE	used	625220768	8.35	1803	-0.169	0.162	0.105	0.158	84.347465	-2.083660	-1881.12	-1000.00

2.4 Star Slots

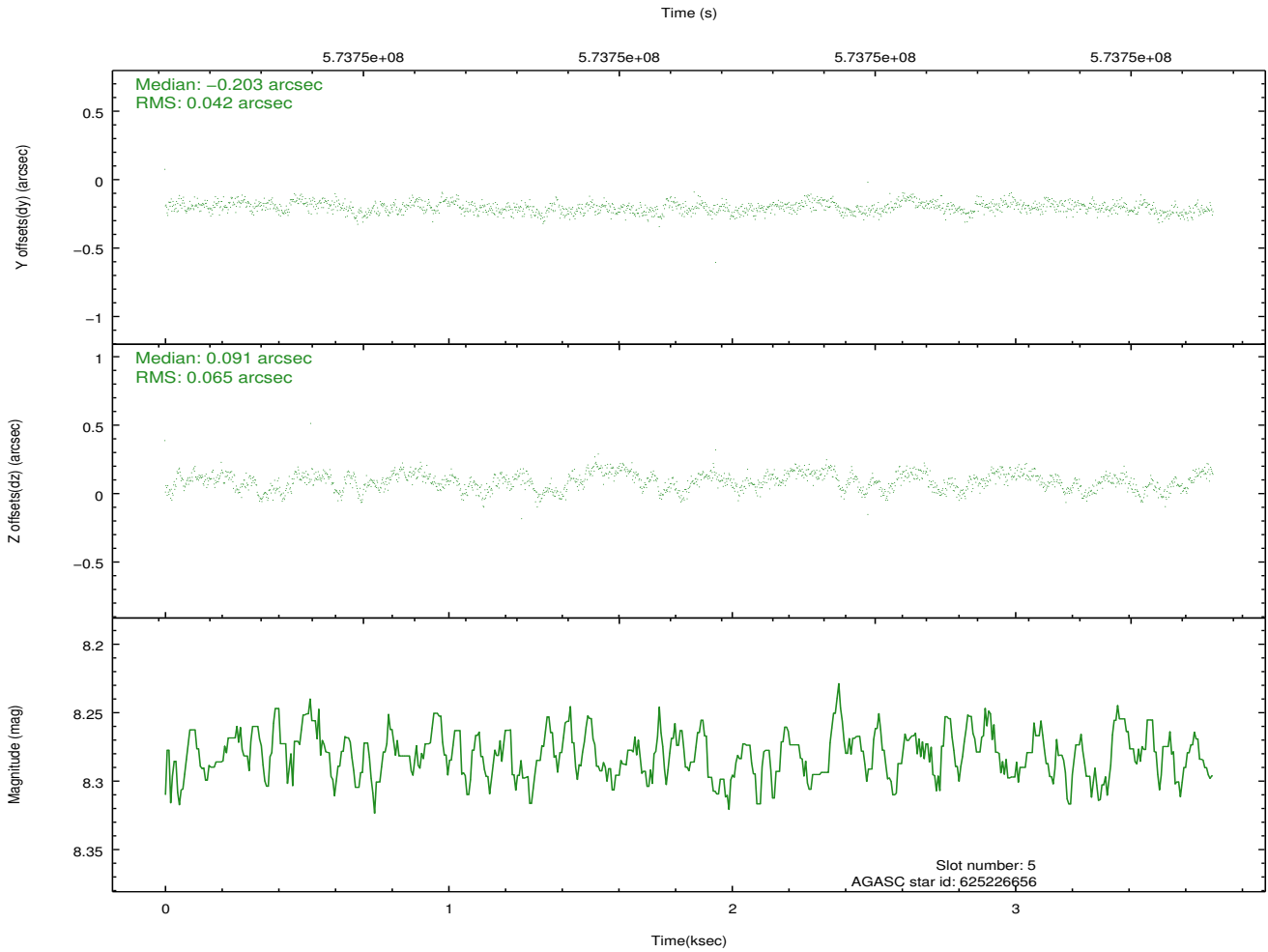
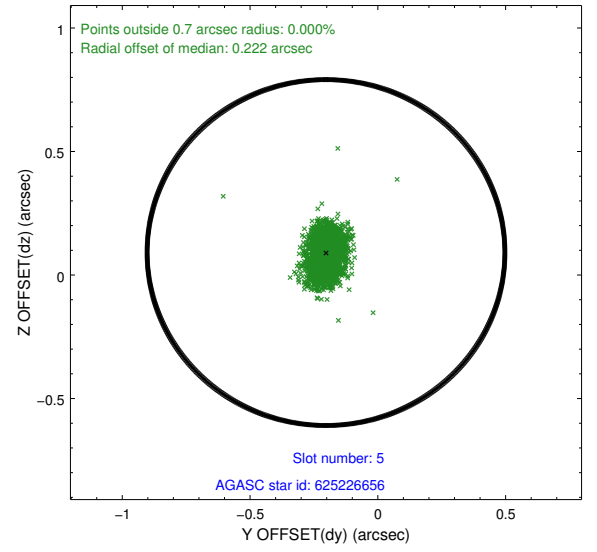
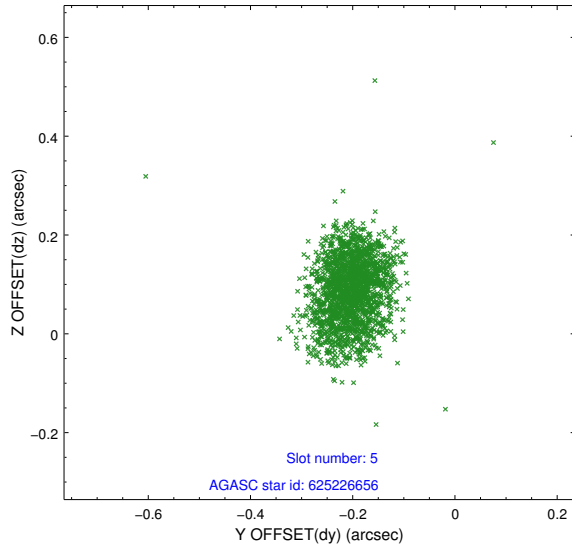
2.4.1 Slot 3



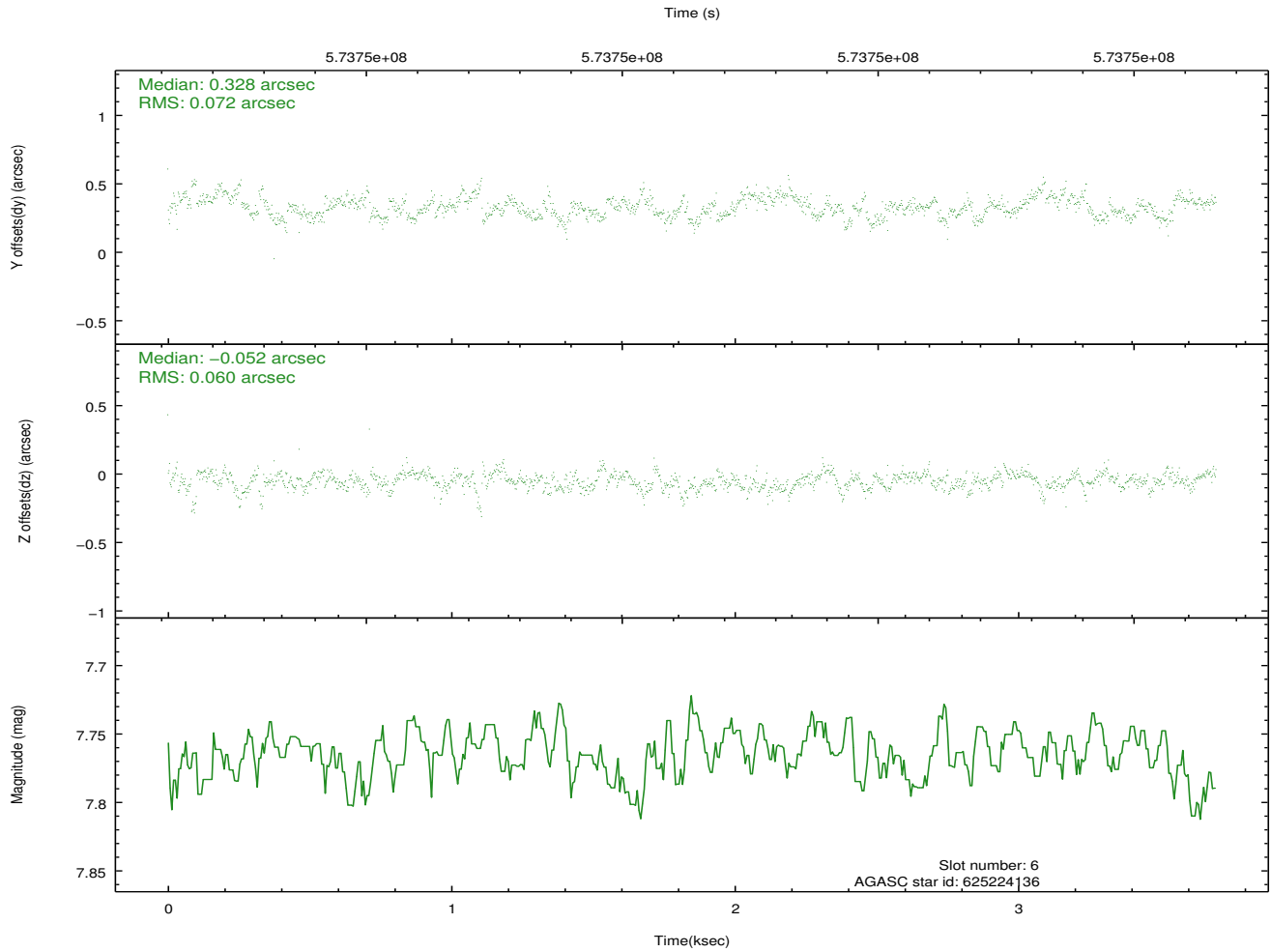
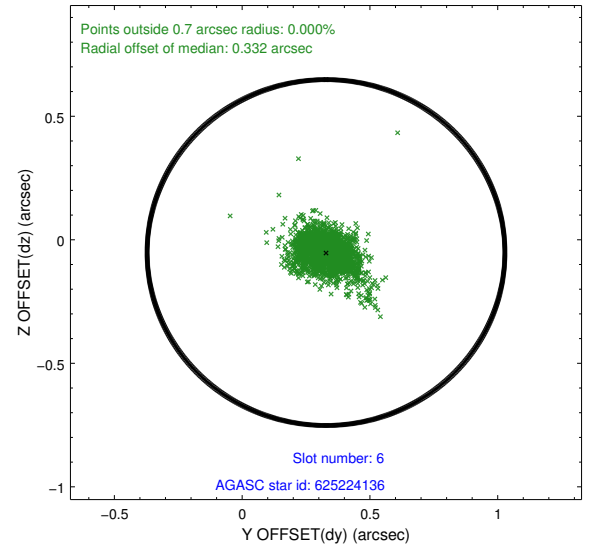
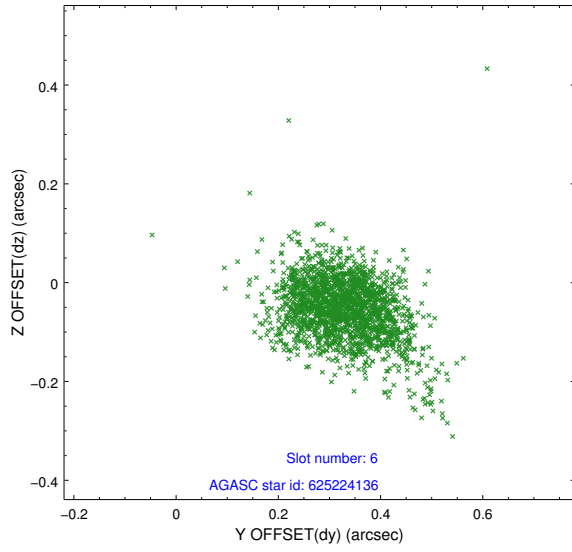
2.4.2 Slot 4



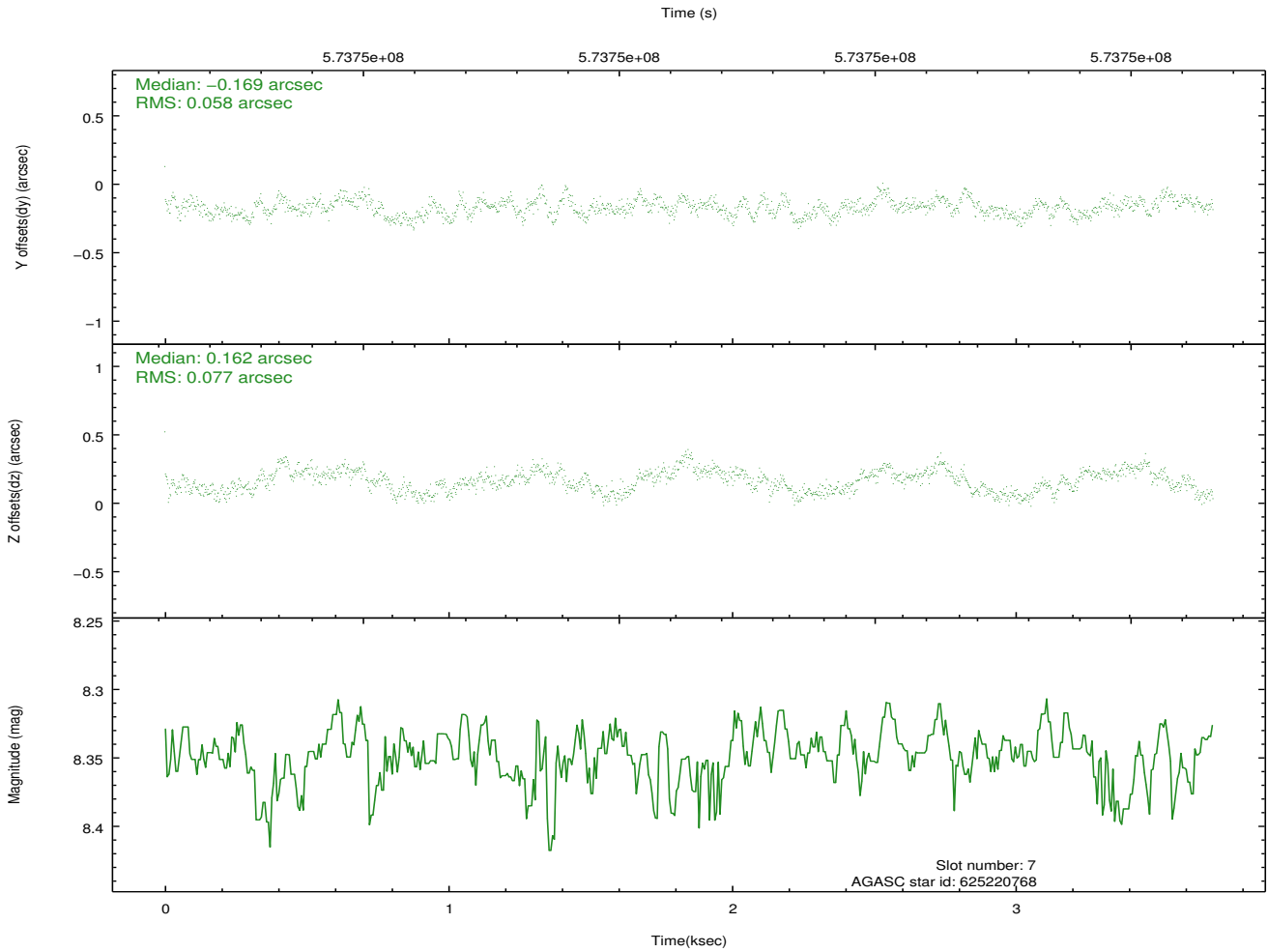
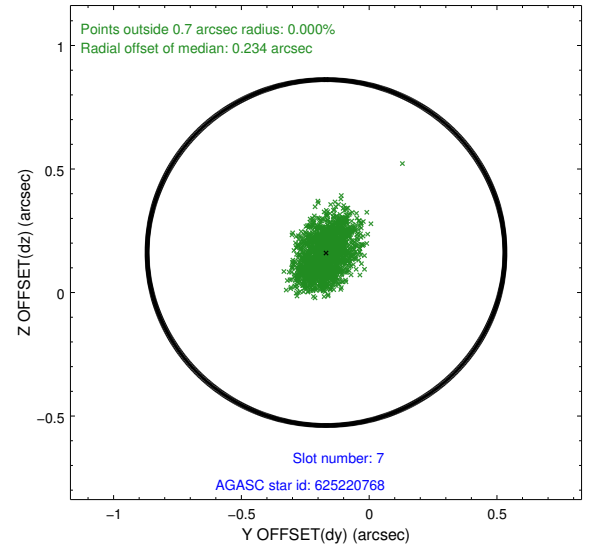
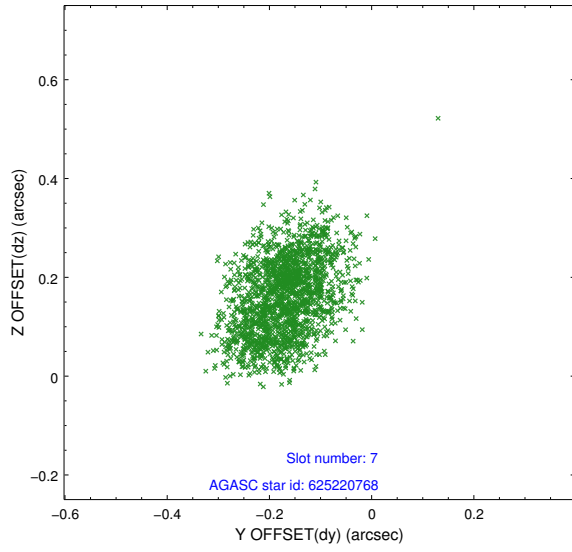
2.4.3 Slot 5



2.4.4 Slot 6

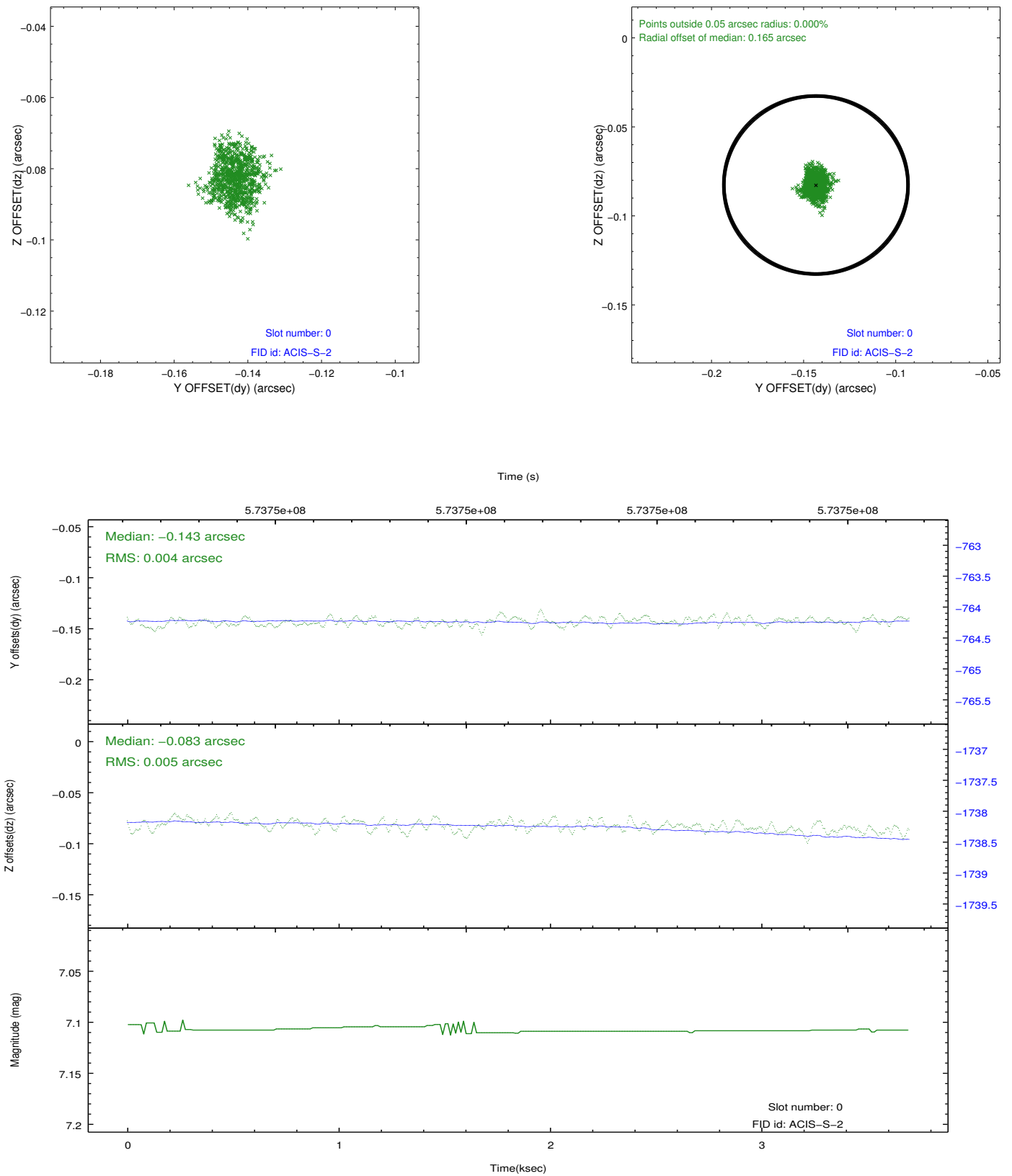


2.4.5 Slot 7

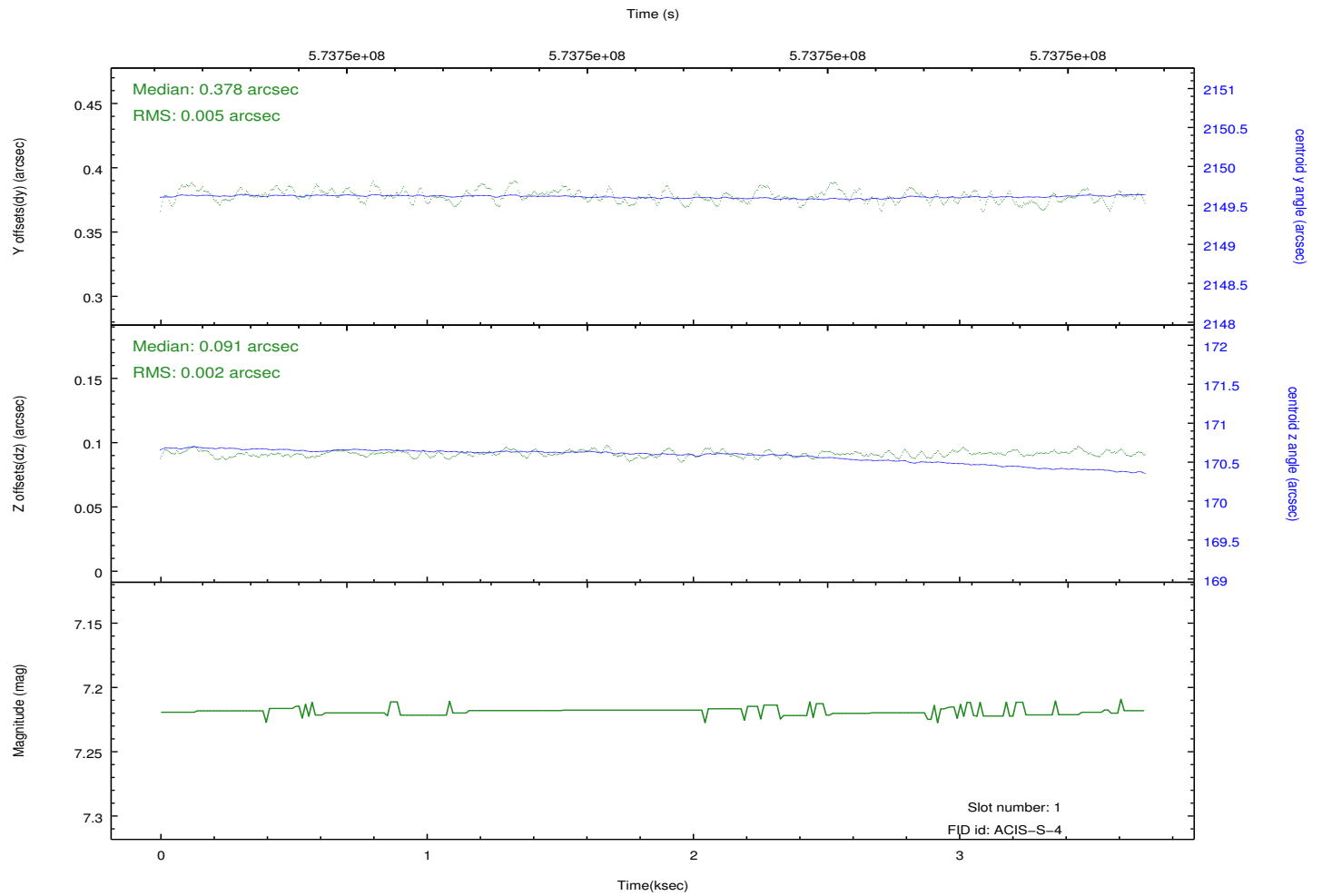
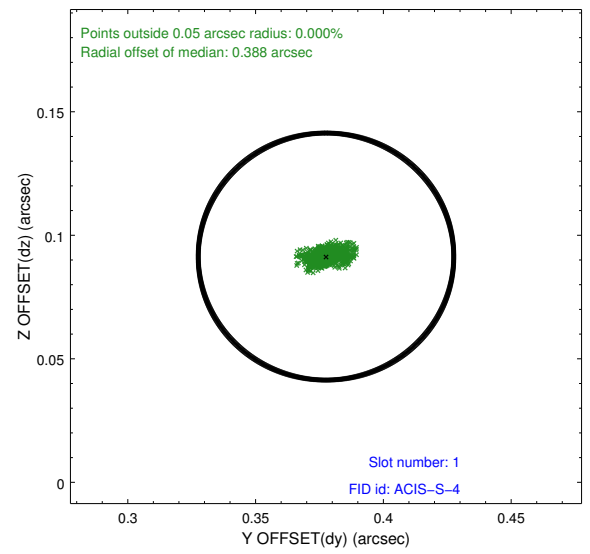
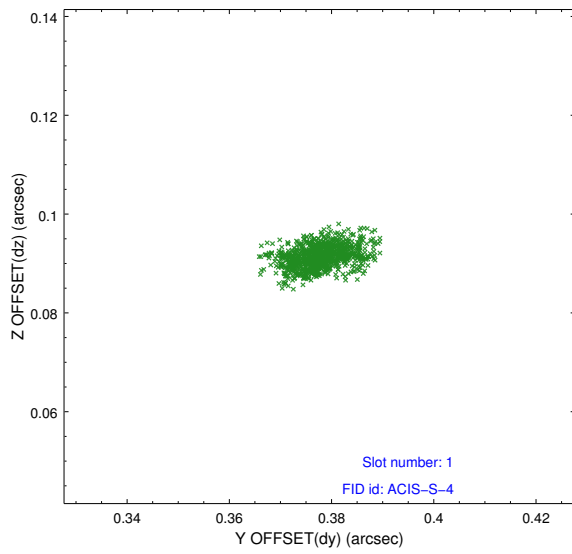


2.5 FID Slots

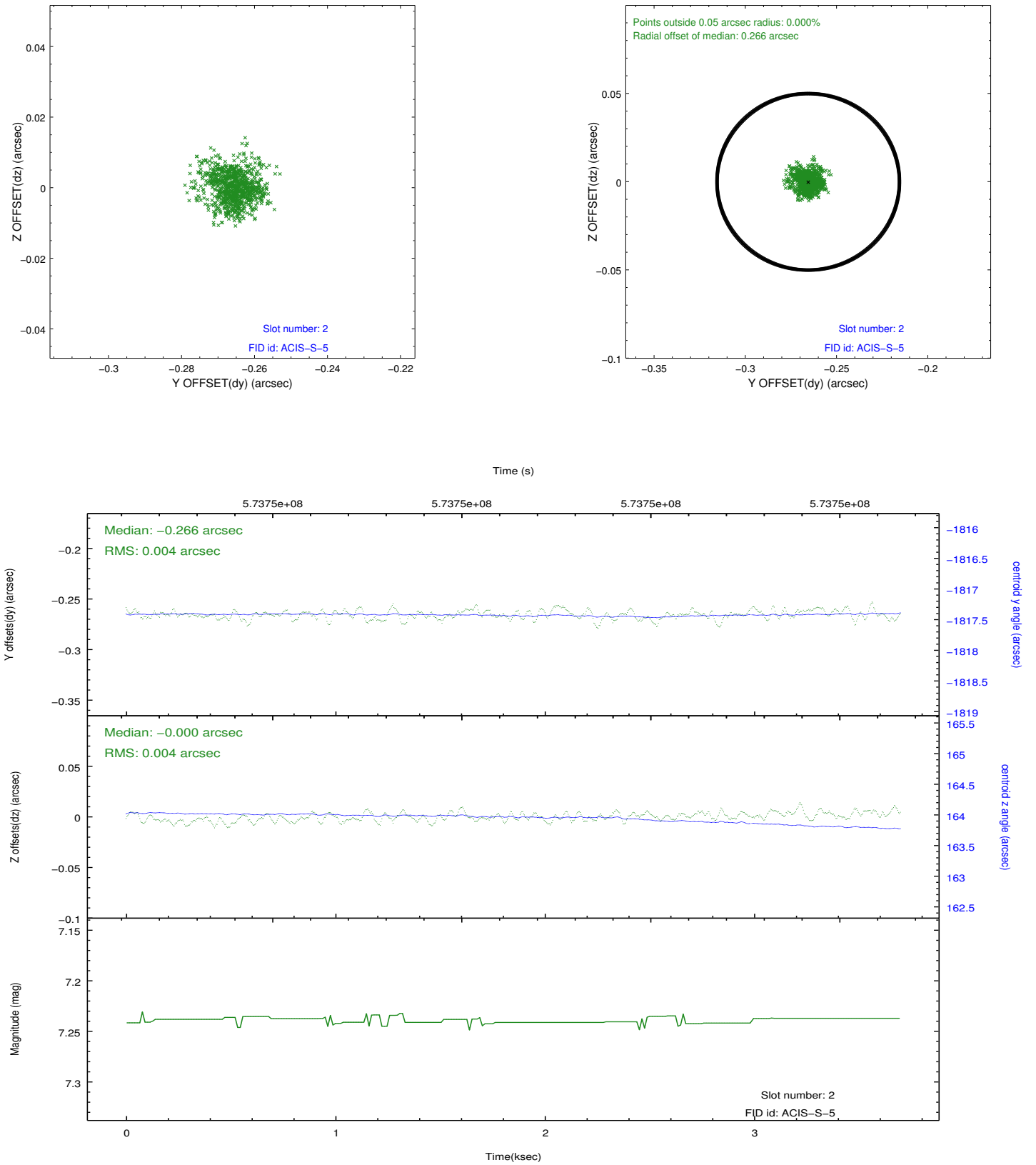
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2016.03.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.5703459846973

A.2 Comments