

V&V Reference Report

L2 ASCDS Version : 10.5

Observation 18067 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : Jul 2 2016

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1 Front

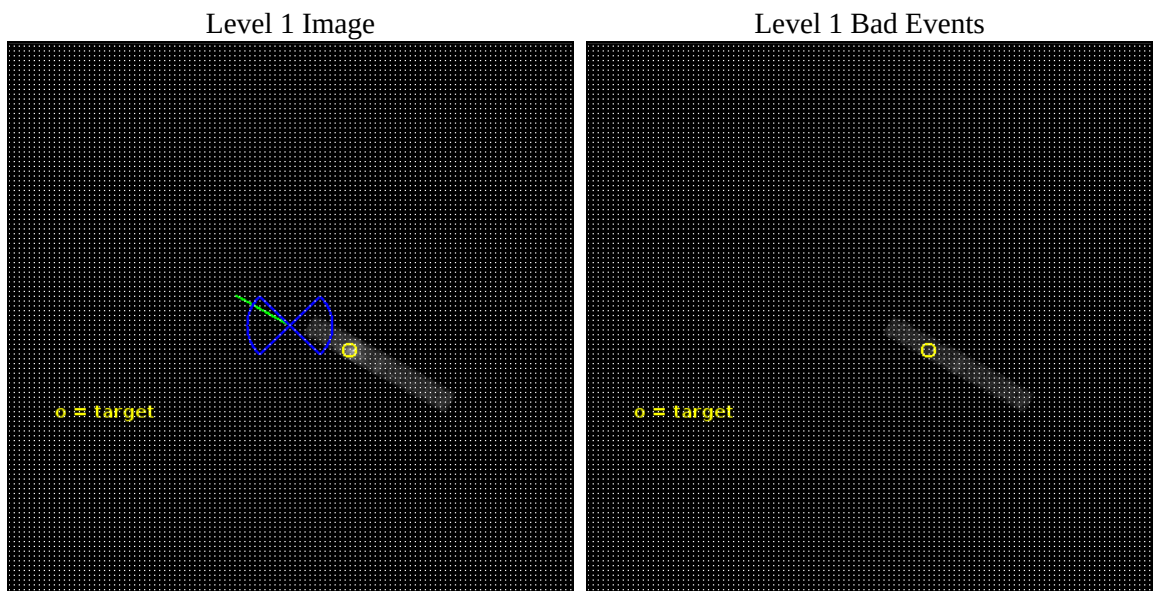
seq_num	601249	Sequence number
obs_id	18067	Observation id
title	Timing and Spectral Studies of the Extreme Binary Population in M82	
observer	Professor Fiona Harrison	Principal investigator
object	M82 offset 2	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	148.969583	Observer's specified target RA [deg]
dec_targ	69.679444	Observer's specified target Dec [deg]
ra_nom	149.1181561805	Nominal RA [deg]
dec_nom	69.701868733976	Nominal Dec [deg]
roll_nom	300.06938415461	Nominal Roll [deg]
revision	1	Processing version of data
ontime	26102.5	Sum of GTIs [s]
livetime	24122.523288481	Livetime [s]
ontime1	26102.5	Sum of GTIs [s]
l2events	58516	Number of level 2 events



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 1



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	26000.000000	[s] Scheduled observation exposure time
ascdsver	10.5	Processing system revision	ontime	26102.5	Sum of GTIs [s]
caldbver	4.7.2	 	ontime1	26102.5	Sum of GTIs [s]
date	2016-07-02T14:21:06	Date and time of file creation	l1events	89915	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

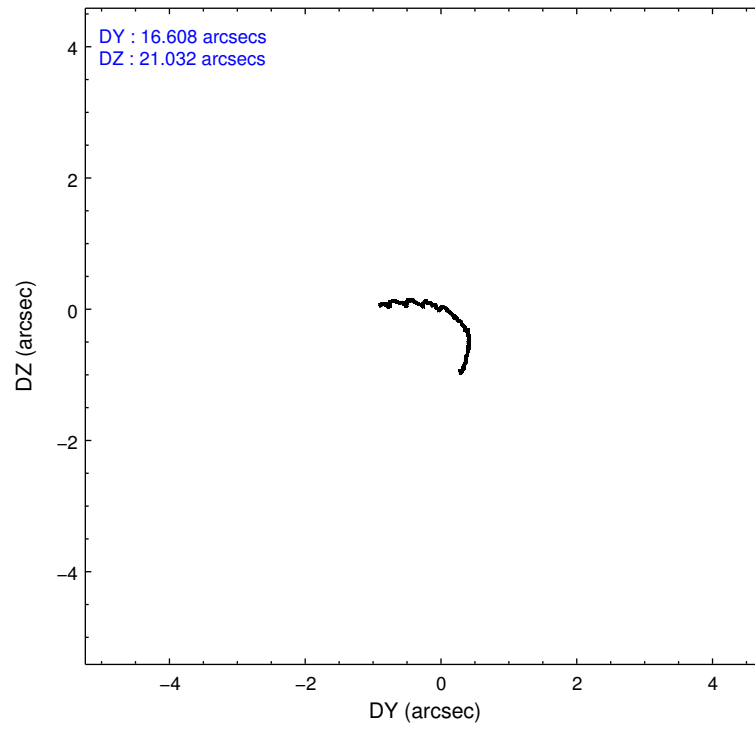
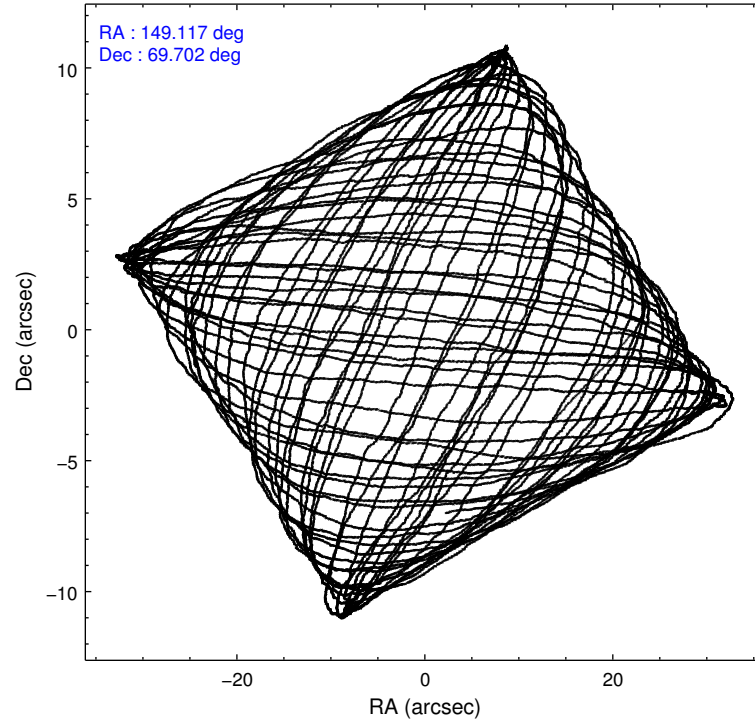
	ccd 1
level 1 events	89915
rejected events	25850
rejected %	28%

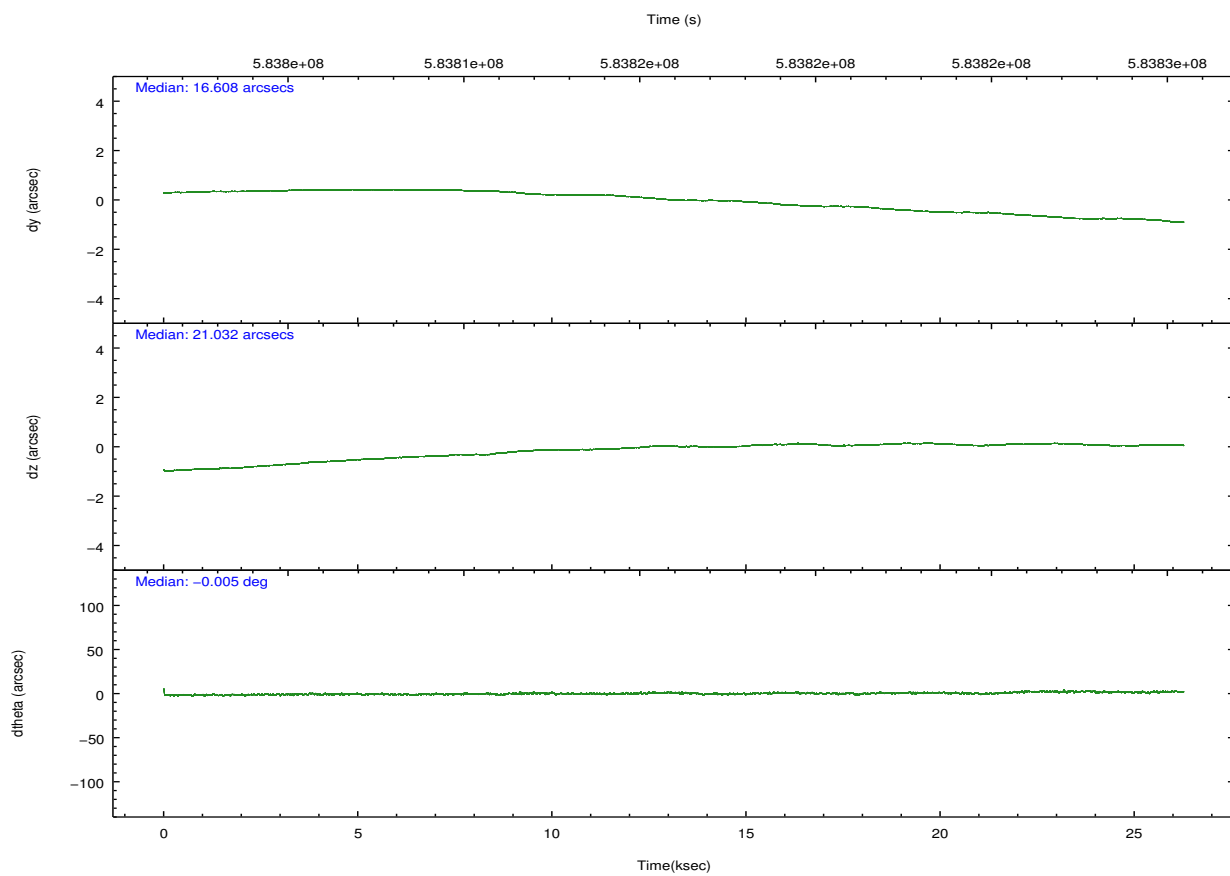
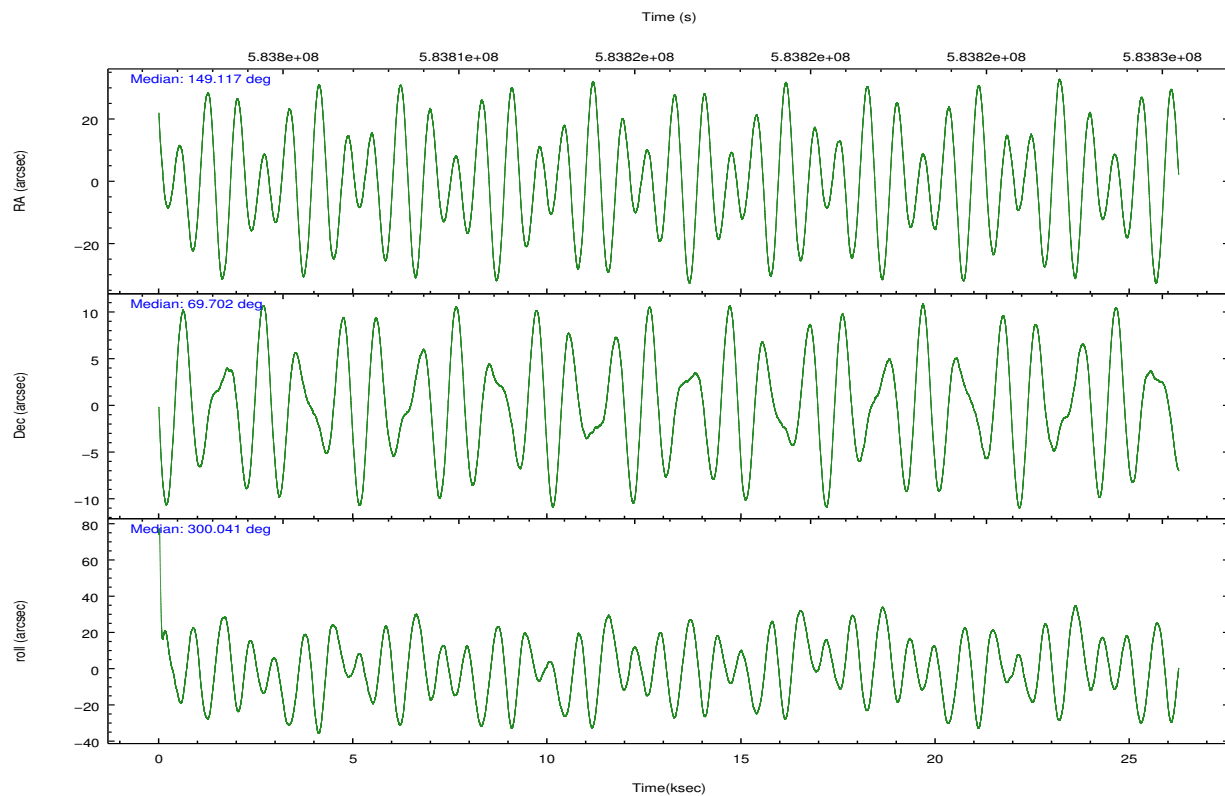
	ccd 1
grade 0 events	46434
	51%
grade 1 events	1229
	1%
grade 2 events	8387
	9%
grade 3 events	3158
	3%
grade 4 events	2921
	3%
grade 5 events	1886
	2%
grade 6 events	3167
	3%
grade 7 events	22733
	25%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-1	ACIS-1	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	149.048979	149.1181561804999	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	69.715550	69.70186873397574	Subarray start row	897	897
[deg] Pointing Roll	299.925541	300.0693841546147	Subarray row count	128	128
[deg] Roll angle	270.000000	270.000000	Alternating exposures requested	N	N
[deg] Roll tolerance	45.000000	45.000000	[s] Primary exposure time	0.000000	0.5
Roll constraint allows 180D rotation	Y	Y			
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	583803091.184000	583802356.29004			
Observation start date	2016-07-01T23:30:23	2016-07-01T23:19:16			
[s] Observation end time (MET)	583829091.184000	583829905.72912			
Observation end date	2016-07-02T06:43:43	2016-07-02T06:58:25			
Read mode	TIMED	TIMED			

2.3 Aspect



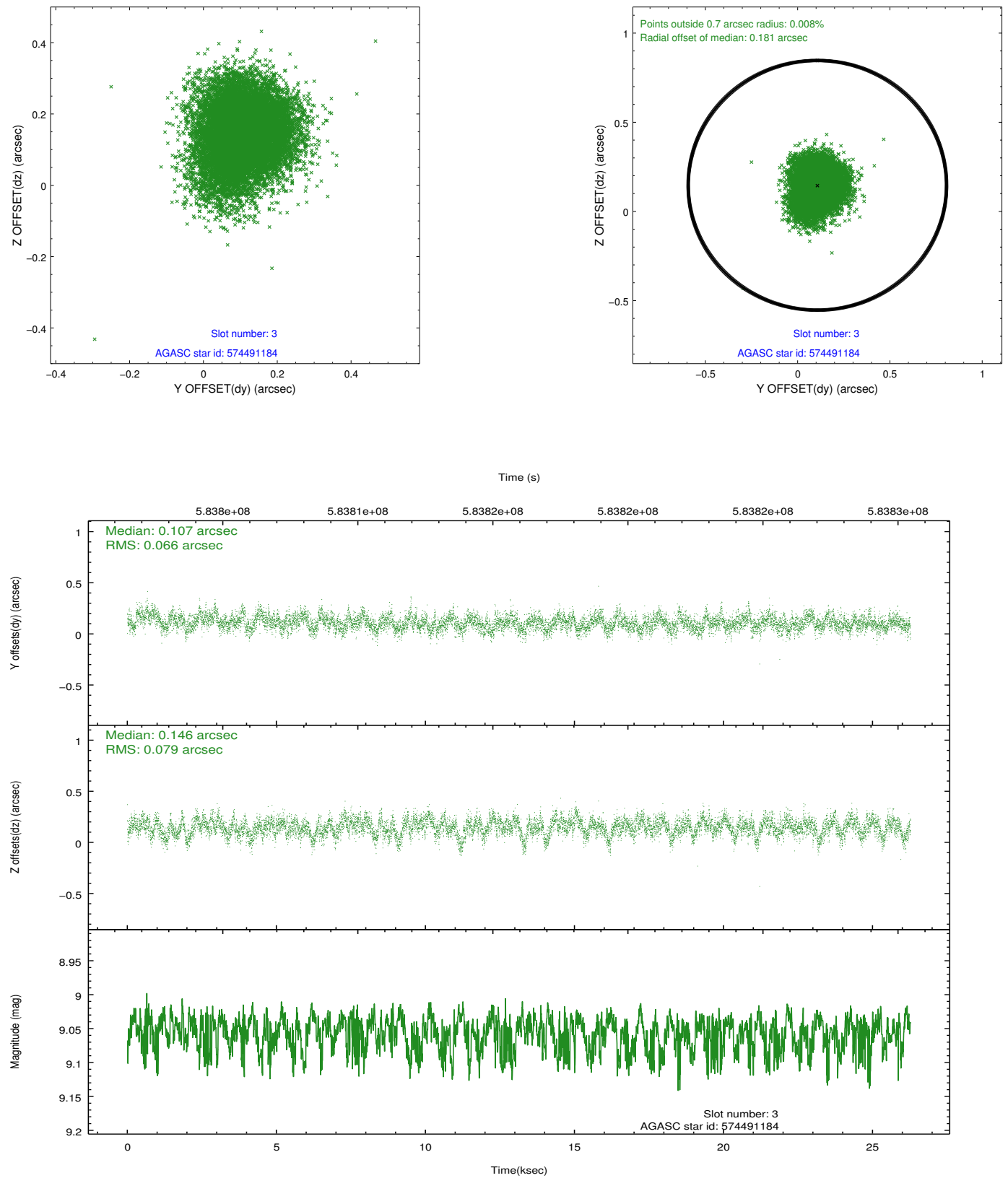


Slot Statistics

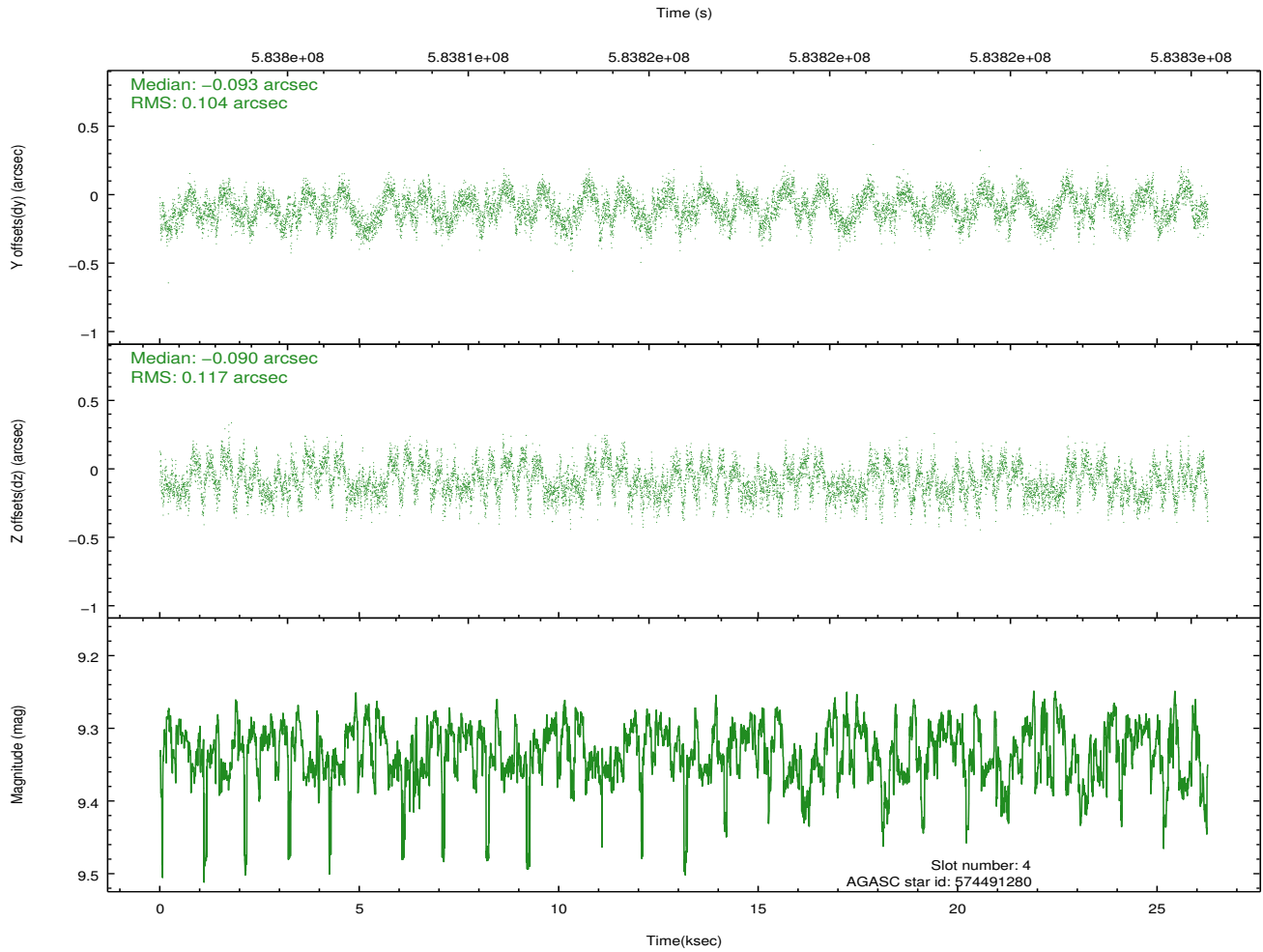
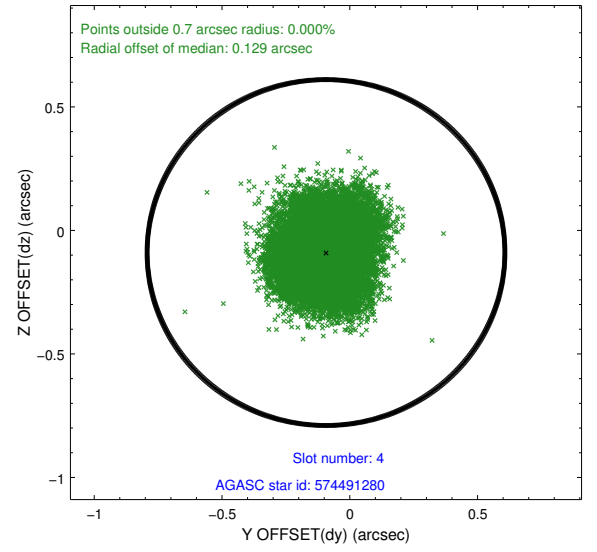
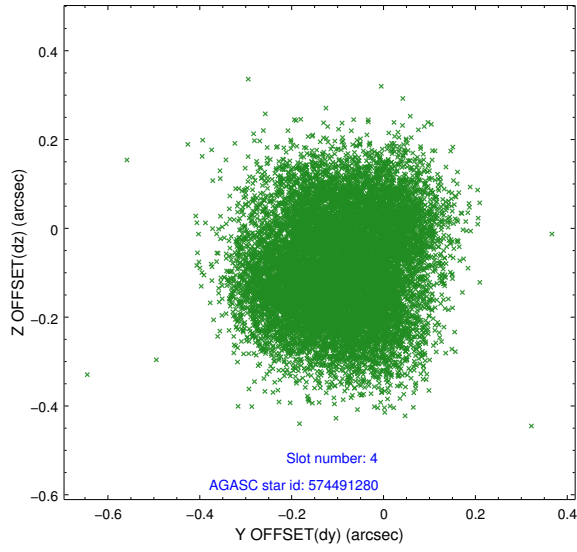
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.24	6407	-0.041	-0.125	0.016	0.040	0.000000	0.000000	922.88	-844.68
1	FID		ACIS-I-4	7.18	6406	0.391	0.129	0.031	0.044	0.000000	0.000000	2143.31	1055.38
2	FID		ACIS-I-5	7.23	6406	-0.448	0.066	0.024	0.035	0.000000	0.000000	-1825.49	1053.09
3	GUIDE	used	574491184	9.05	12810	0.107	0.146	0.109	0.177	148.582453	69.768699	-456.84	-406.01
4	GUIDE	used	574491280	9.33	12805	-0.093	-0.090	0.172	0.253	148.611567	69.450135	551.74	-956.30
5	GUIDE	used	574491872	9.21	12806	0.086	0.397	0.116	0.184	147.207613	69.765453	-1323.52	-1882.58
6	GUIDE	used	574886464	9.74	12799	0.011	-0.141	0.210	0.315	149.898674	70.203982	-1014.07	1778.70
7	GUIDE	used	574886496	8.48	12809	-0.103	-0.311	0.118	0.182	148.945563	70.041136	-1079.78	474.85

2.4 Star Slots

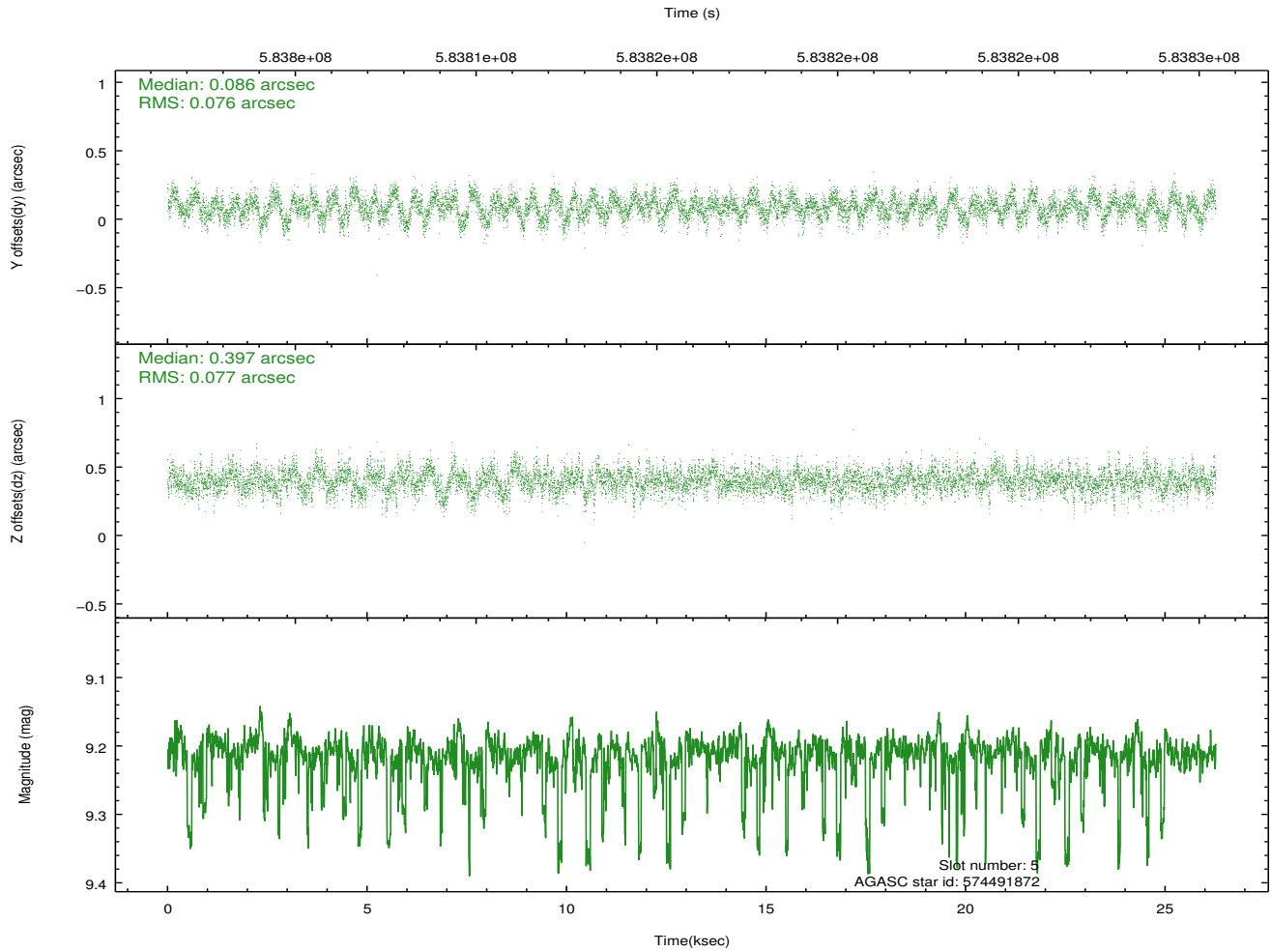
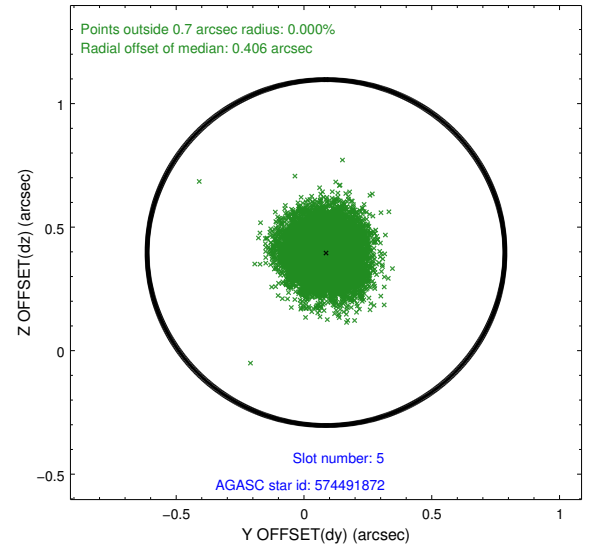
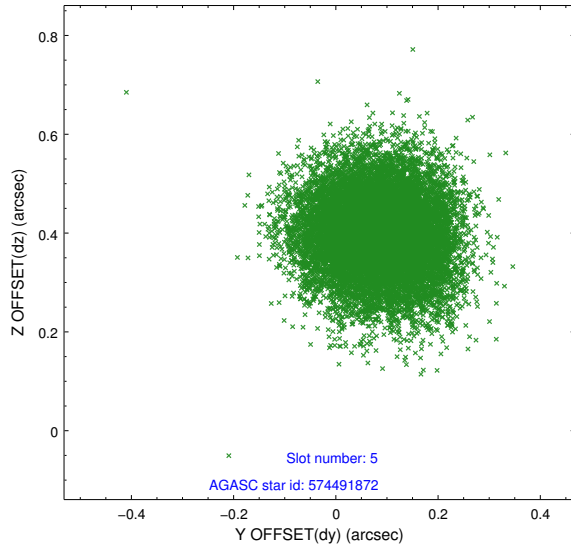
2.4.1 Slot 3



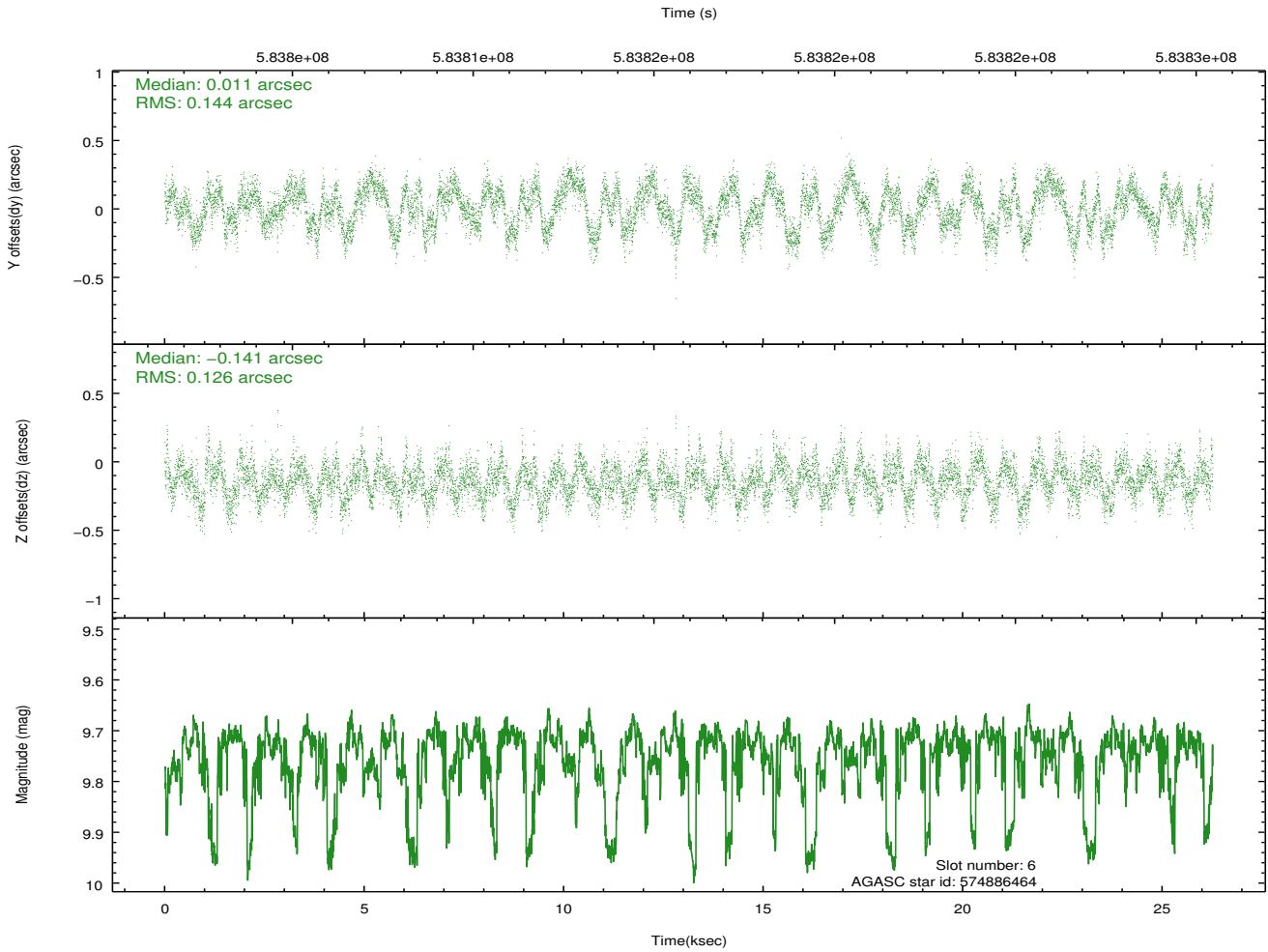
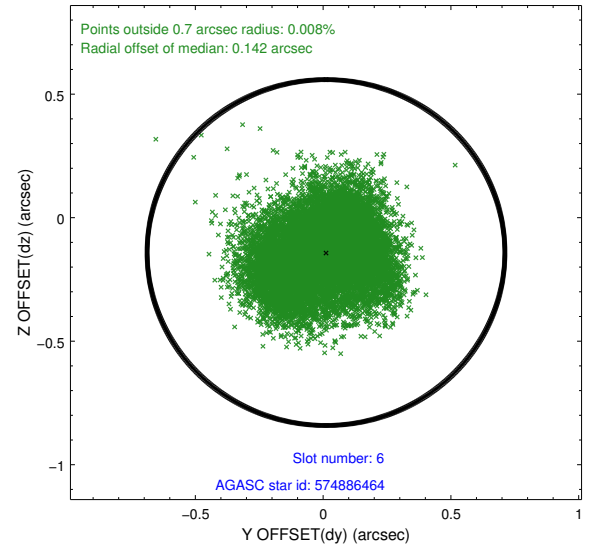
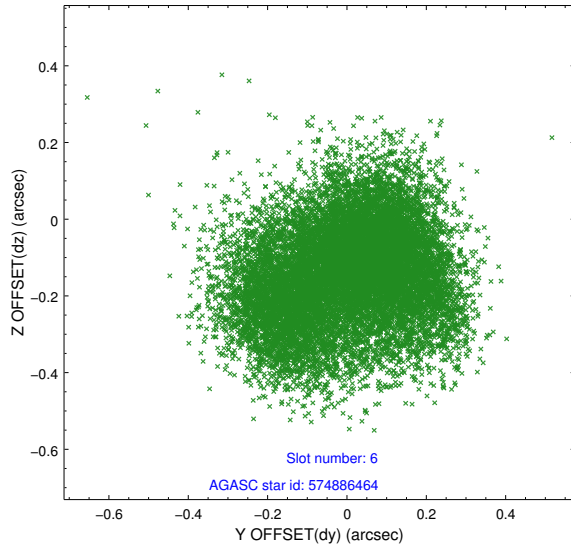
2.4.2 Slot 4



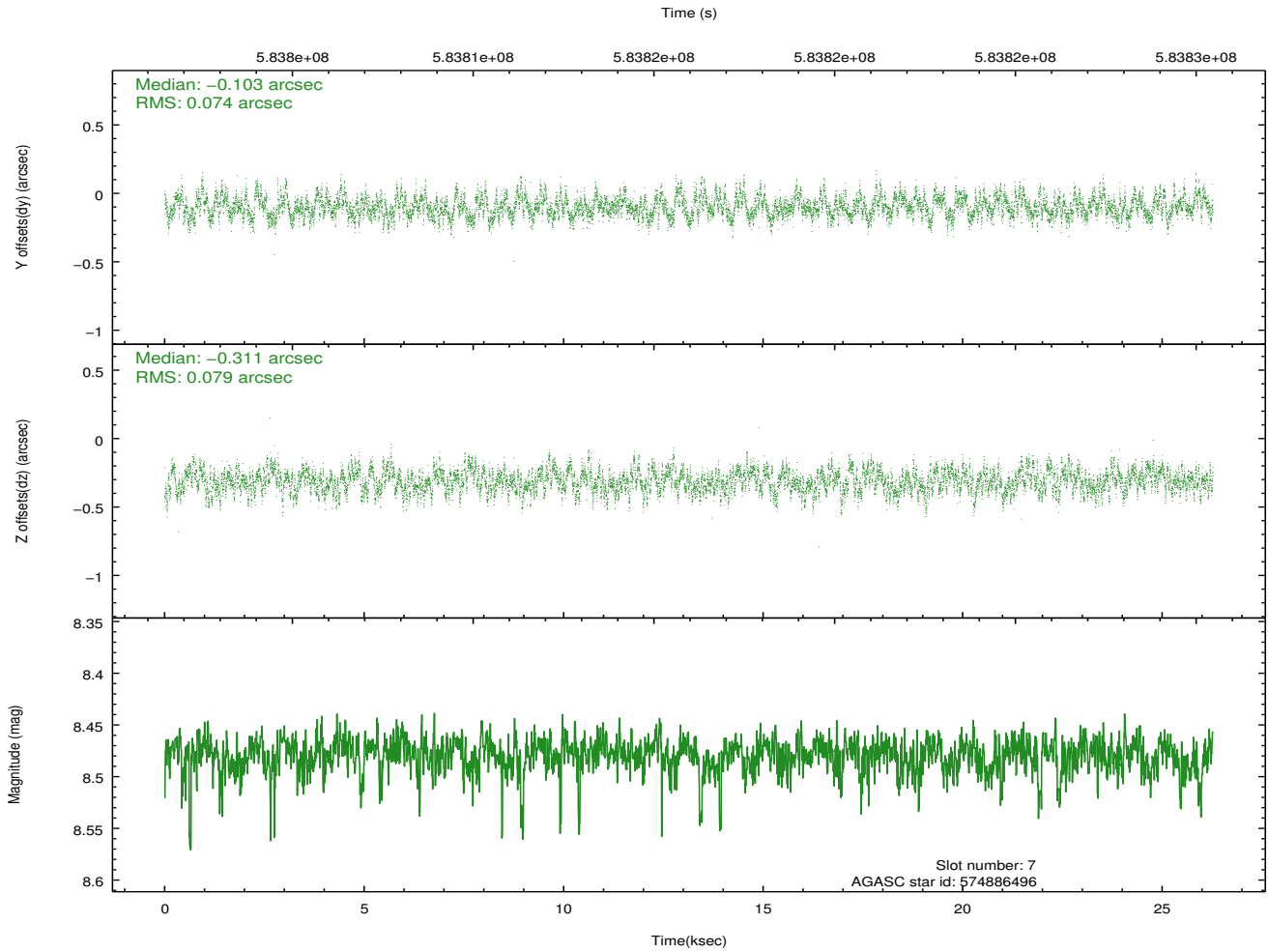
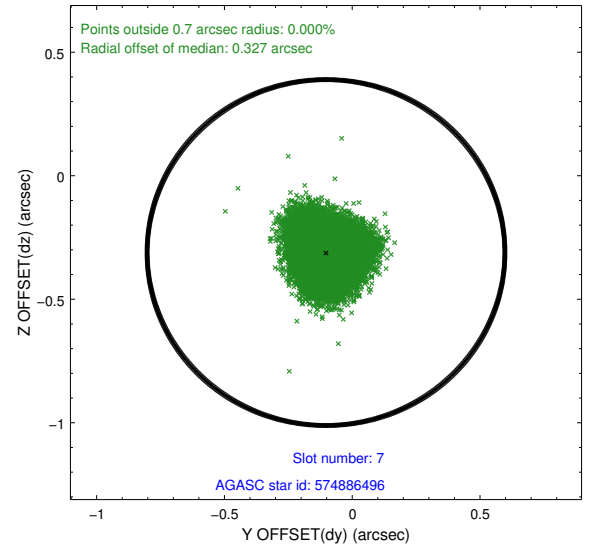
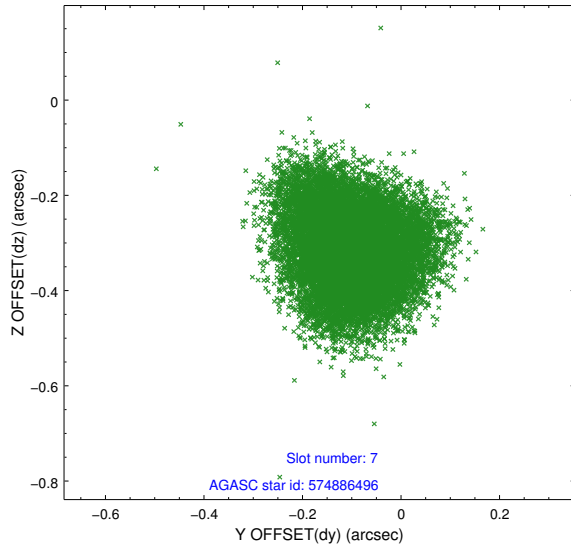
2.4.3 Slot 5



2.4.4 Slot 6

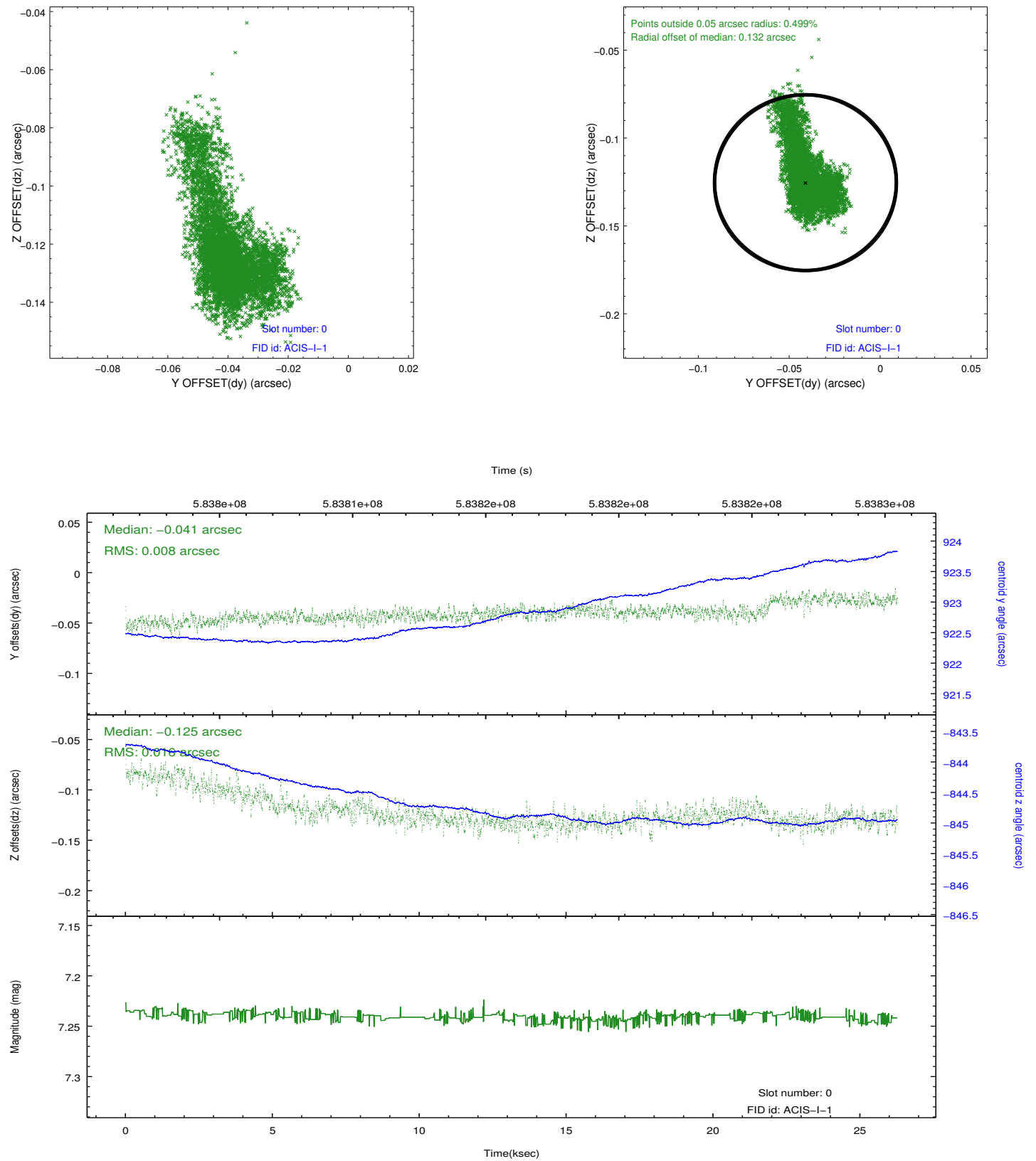


2.4.5 Slot 7

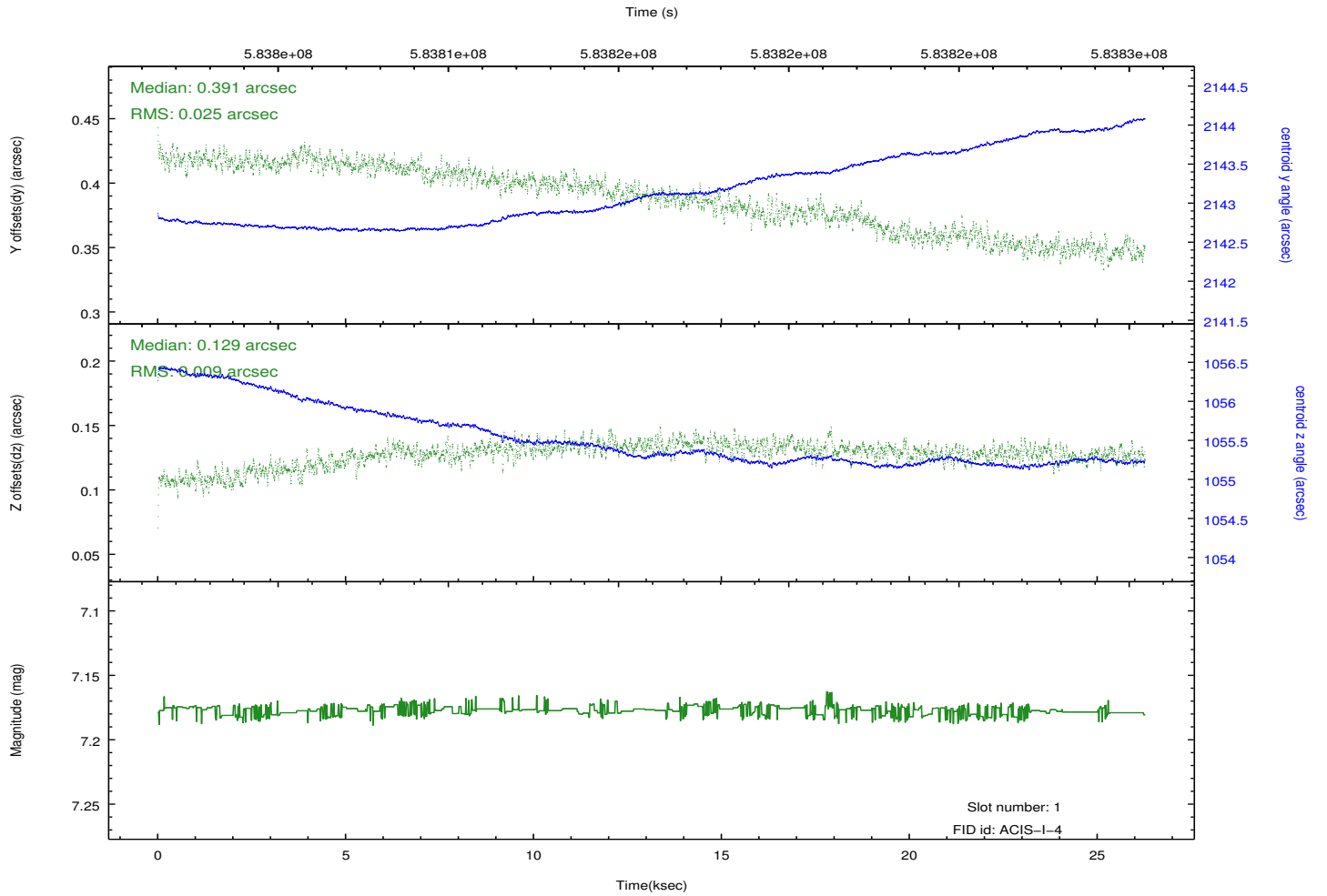
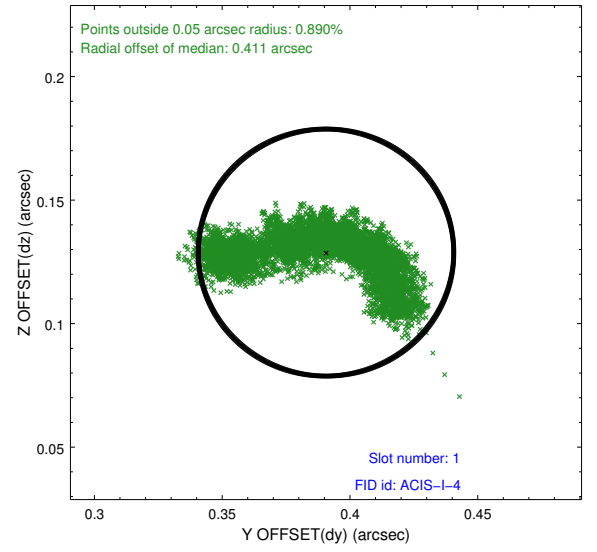
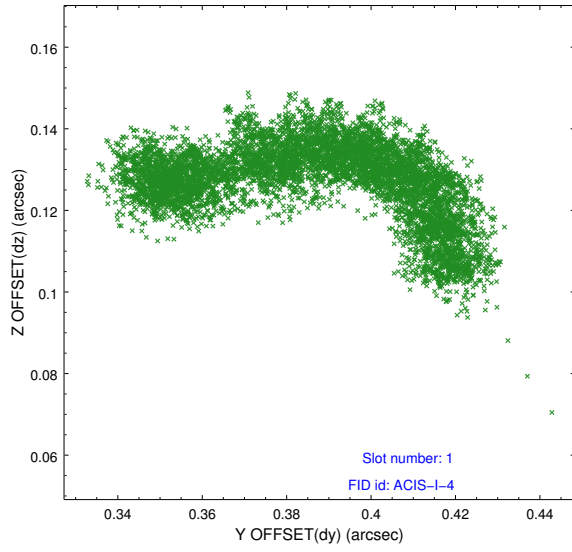


2.5 FID Slots

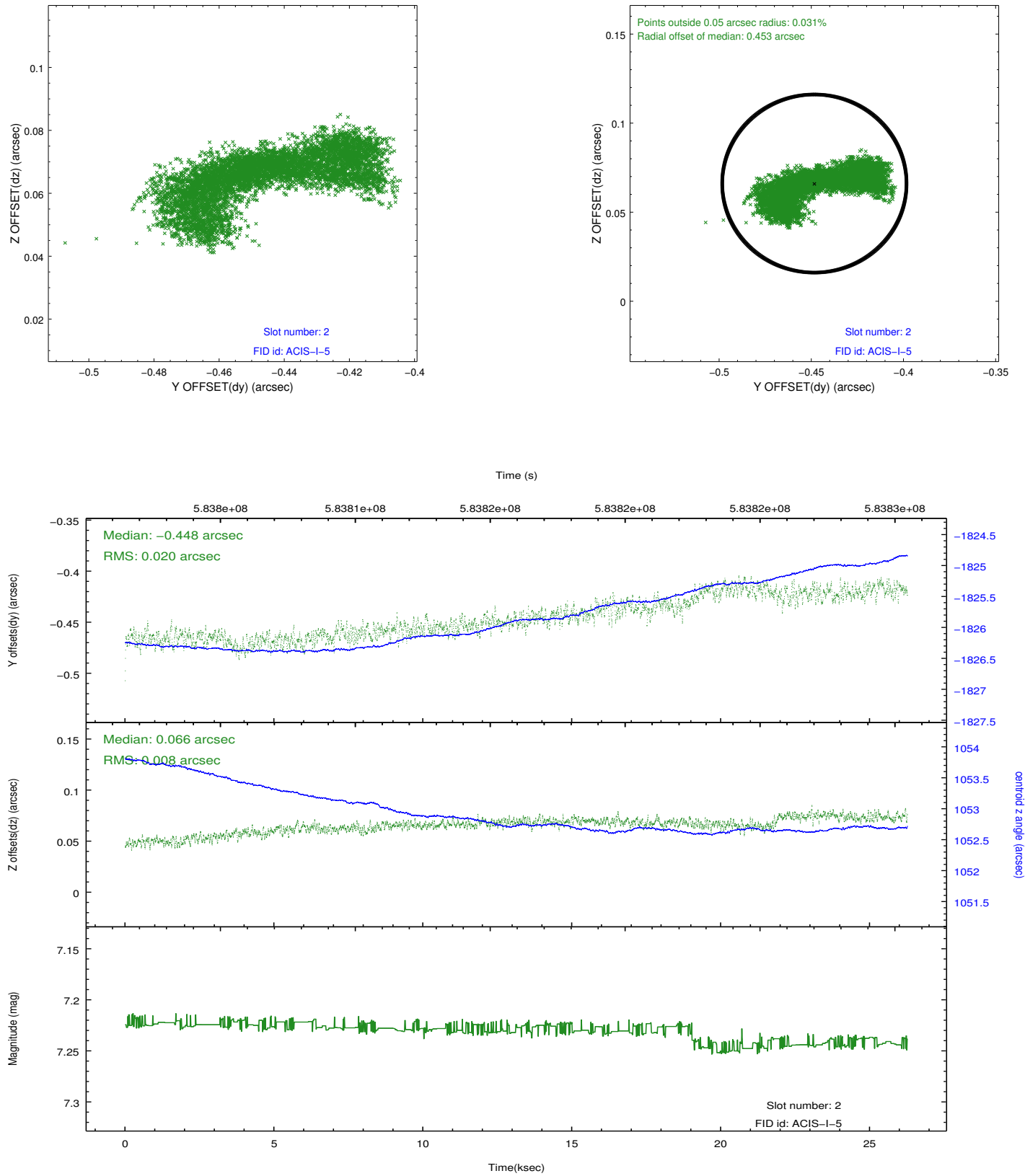
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2016.07.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	26.1025

A.2 Comments

Roll preference met.