

V&V Reference Report

L2 ASCDS Version : 10.5.1.1

Observation 18070 - L2 Version 1
Chandra X-Ray Center

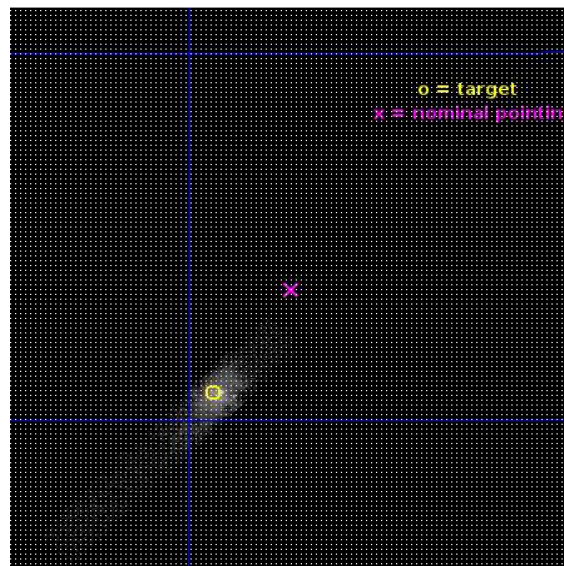
L2 Processing Date : Oct 8 2016

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1 Front

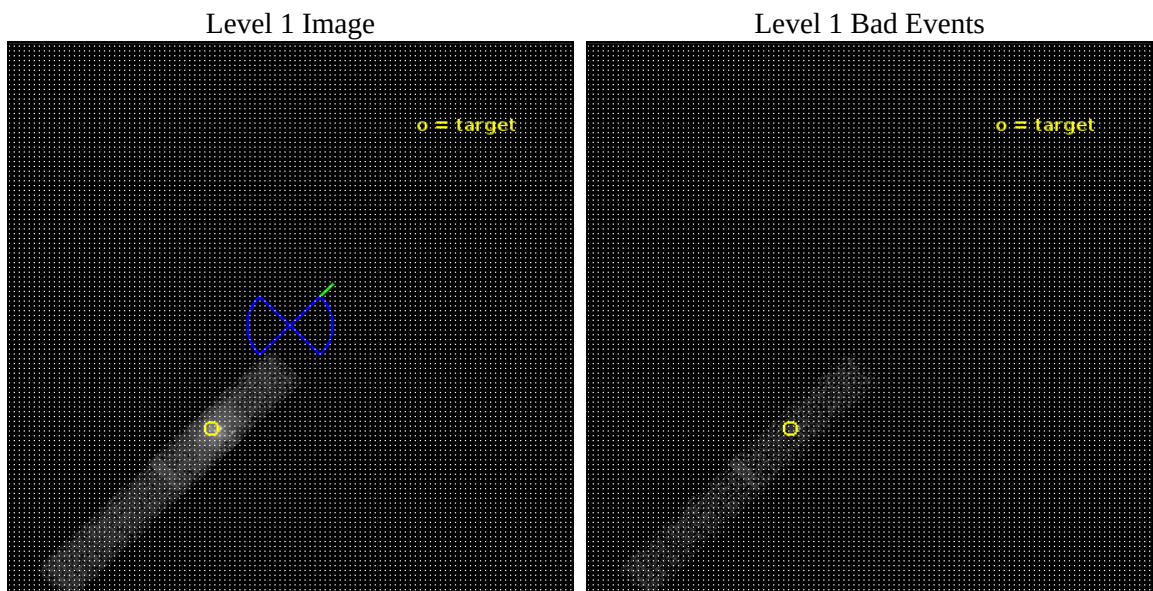
seq_num	601252	Sequence number
obs_id	18070	Observation id
title	Timing and Spectral Studies of the Extreme Binary Population in M82	
observer	Professor Fiona Harrison	Principal investigator
object	M82 offset 2	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	148.969583	Observer's specified target RA [deg]
dec_targ	69.679444	Observer's specified target Dec [deg]
ra_nom	148.87094631533	Nominal RA [deg]
dec_nom	69.726144757352	Nominal Dec [deg]
roll_nom	45.301216414161	Nominal Roll [deg]
revision	1	Processing version of data
ontime	25102.0	Sum of GTIs [s]
livetime	23197.915126423	Livetime [s]
ontime1	25102.0	Sum of GTIs [s]
l2events	39489	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	0	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.1.1	Processing system revision	ontime	25102.0	Sum of GTIs [s]
caldsver	4.7.2	 	ontime1	25102.0	Sum of GTIs [s]
date	2016-10-08T18:15:21	Date and time of file creation	l1events	67850	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

	ccd 1
level 1 events	67850
rejected events	24438
rejected %	36%

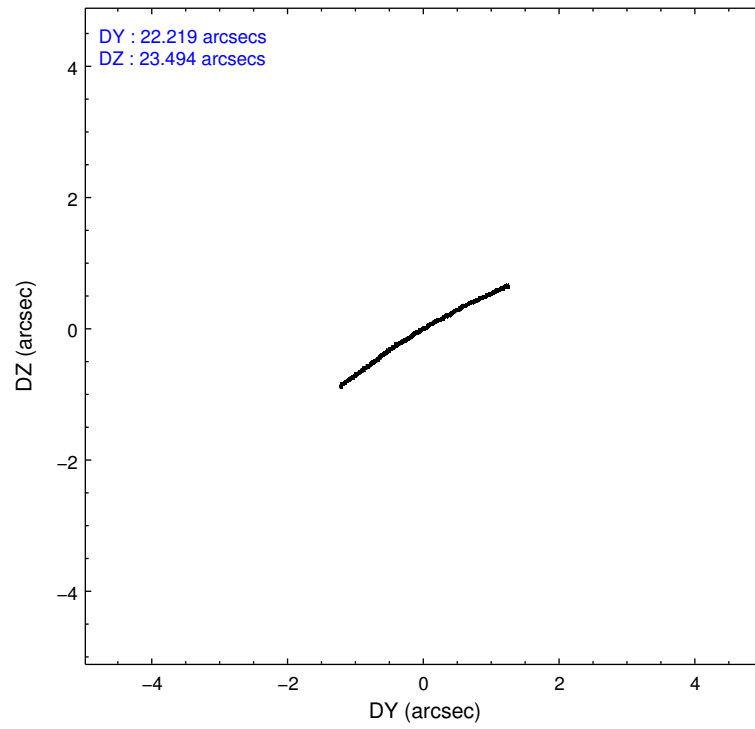
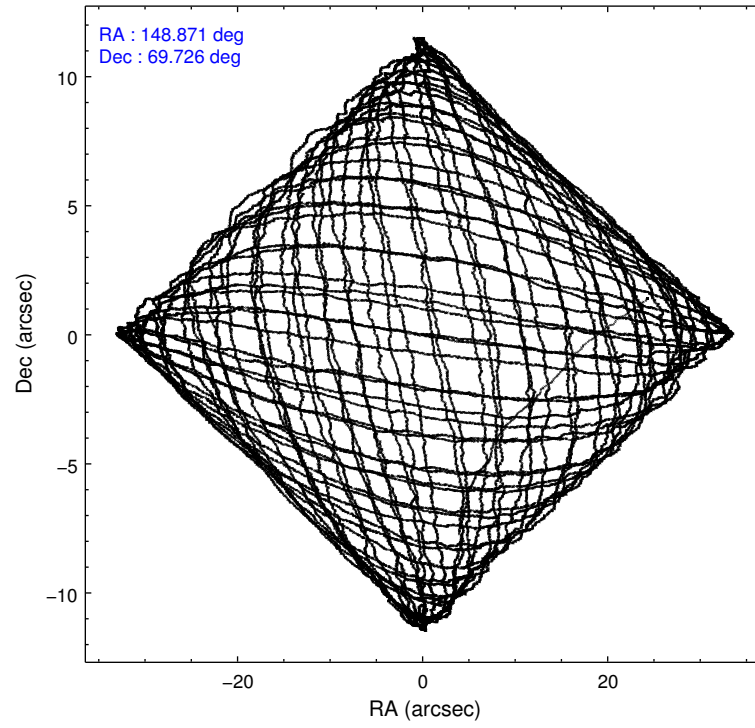
	ccd 1
grade 0 events	32567
	47%
grade 1 events	273
	0%
grade 2 events	4928
	7%
grade 3 events	2046
	3%
grade 4 events	1919
	2%
grade 5 events	1347
	1%
grade 6 events	1953
	2%
grade 7 events	22817
	33%

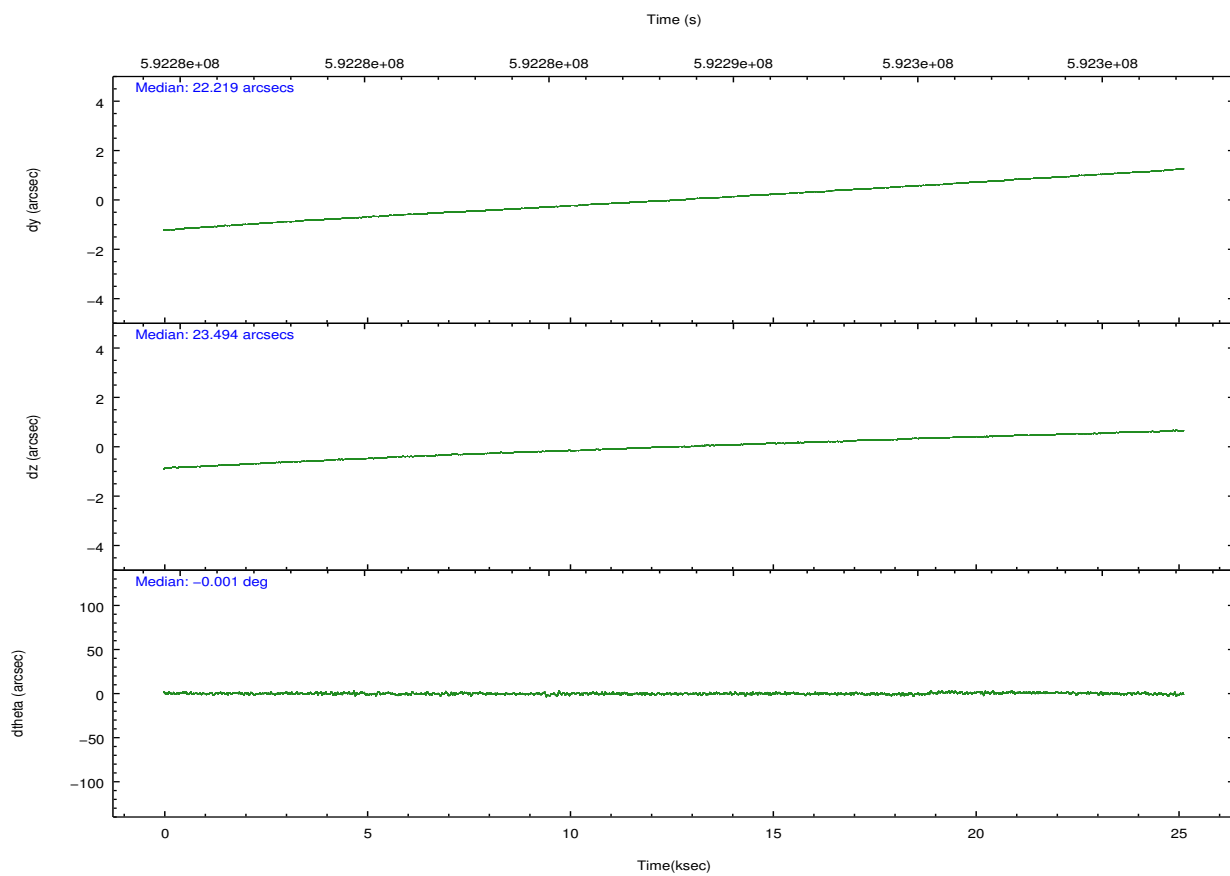
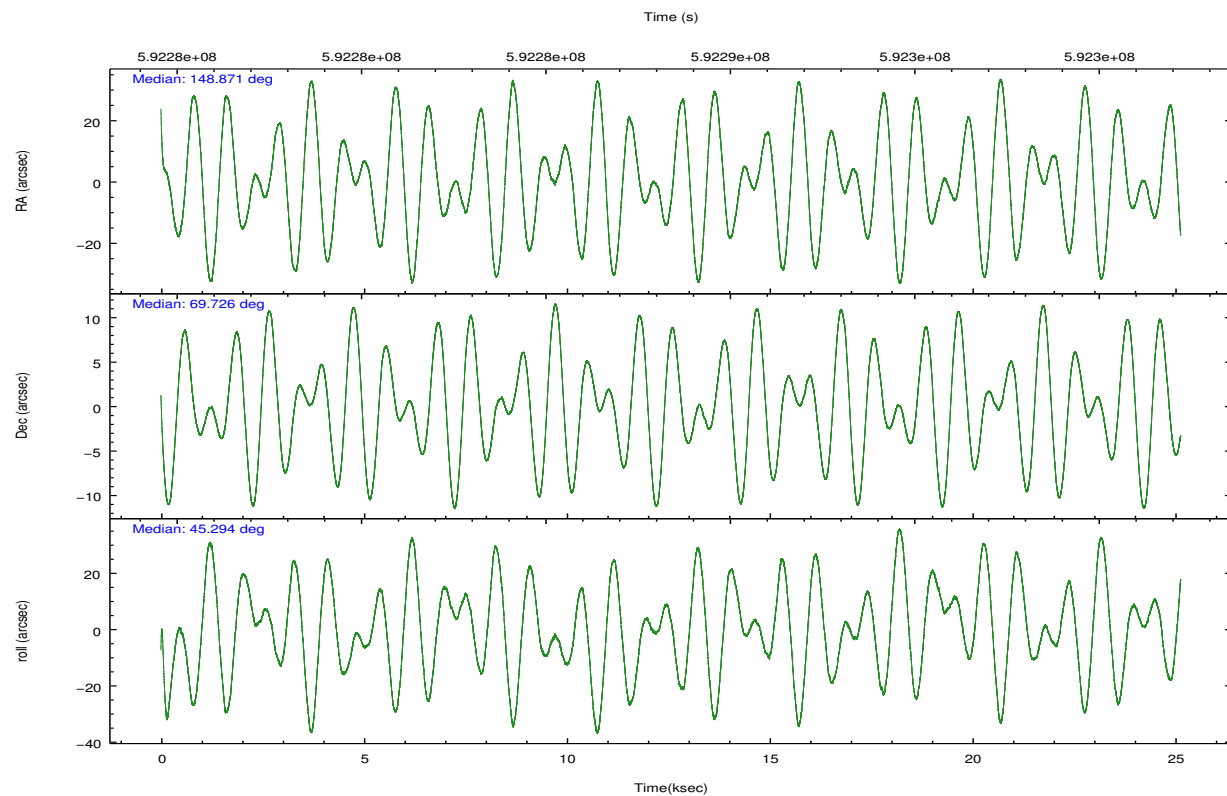
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-1	ACIS-1
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	148.851003	148.8709463153257
[deg] Pointing Dec	69.699421	69.72614475735166
[deg] Pointing Roll	45.111220	45.30121641416075
[deg] Roll angle	270.000000	270.000000
[deg] Roll tolerance	45.000000	45.000000
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)	592275955.184000	592274437.90204
Observation start date	2016-10-08T01:04:47	2016-10-08T00:40:37
[s] Observation end time (MET)	592300955.184000	592302023.7286299
Observation end date	2016-10-08T08:01:27	2016-10-08T08:20:23
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	CUSTOM	1/8
Subarray start row	897	897
Subarray row count	128	128
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	0.5

2.3 Aspect



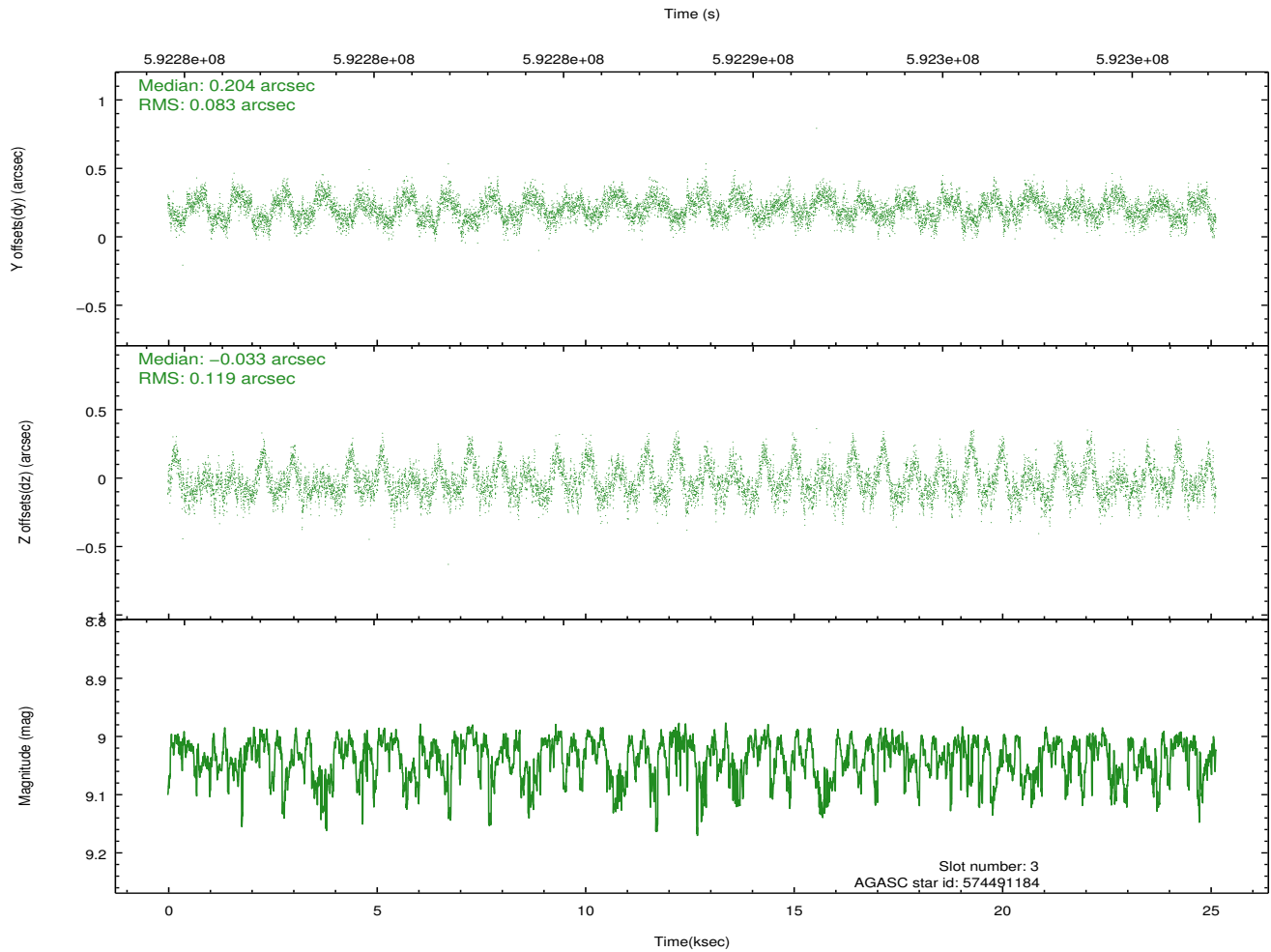
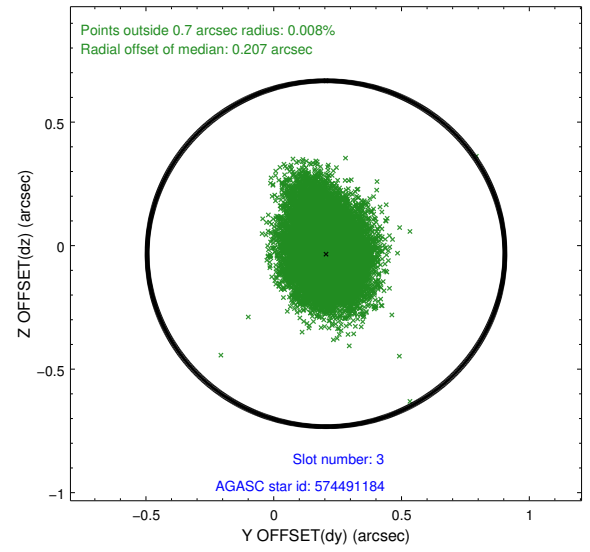
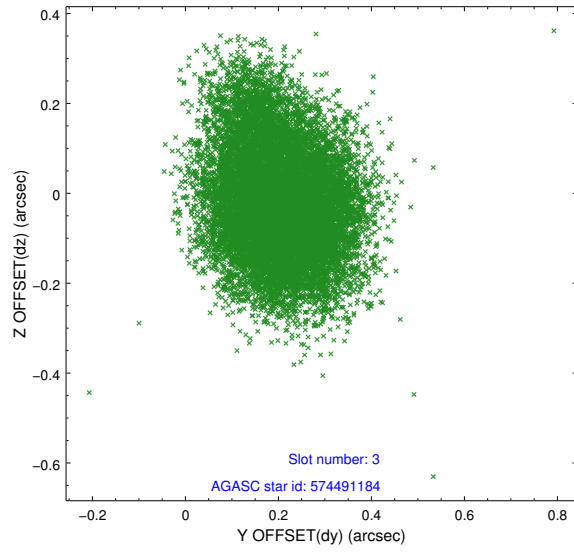


Slot Statistics

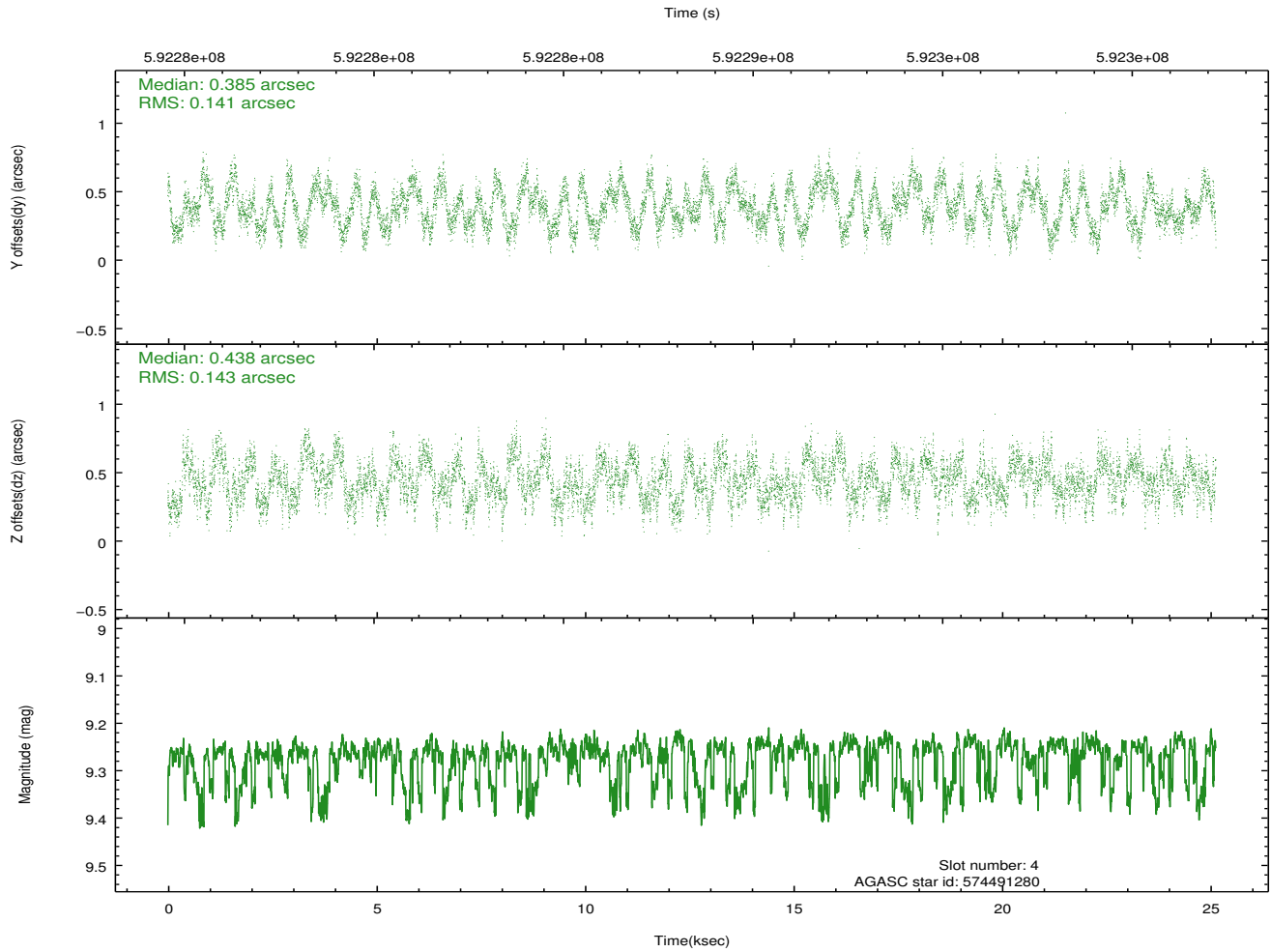
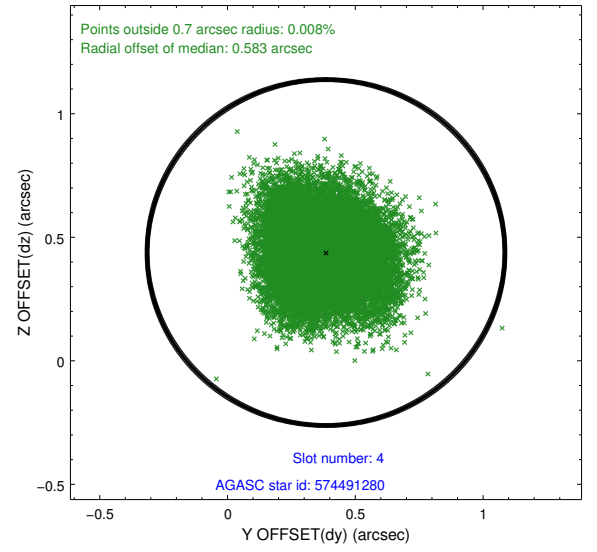
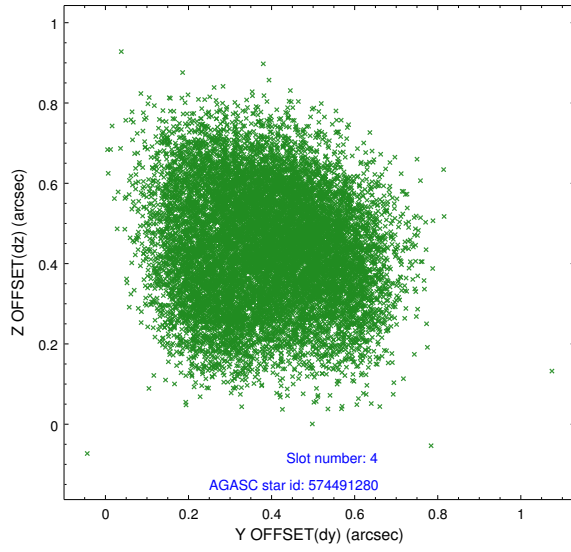
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.13	6131	-0.046	0.037	0.017	0.030	0.000000	0.000000	916.96	-847.26
1	FID		ACIS-I-2	7.03	6131	-0.358	-0.209	0.030	0.044	0.000000	0.000000	-777.38	-853.97
2	FID		ACIS-I-4	7.09	6131	0.308	0.238	0.013	0.027	0.000000	0.000000	2137.19	1052.65
3	GUIDE	used	574491184	9.03	12250	0.204	-0.033	0.153	0.253	148.582453	69.768699	-57.92	413.40
4	GUIDE	used	574491280	9.27	12256	0.385	0.438	0.220	0.324	148.611567	69.450135	-850.48	-417.88
5	GUIDE	used	574886464	9.74	12241	-0.302	-0.099	0.277	0.434	149.898674	70.203982	2196.32	384.92
6	GUIDE	used	574886496	8.49	12255	-0.365	-0.074	0.114	0.191	148.945563	70.041136	954.14	786.37
7	GUIDE	used	574491872	9.23	12253	0.078	-0.243	0.141	0.224	147.207613	69.765453	-1259.69	1633.01

2.4 Star Slots

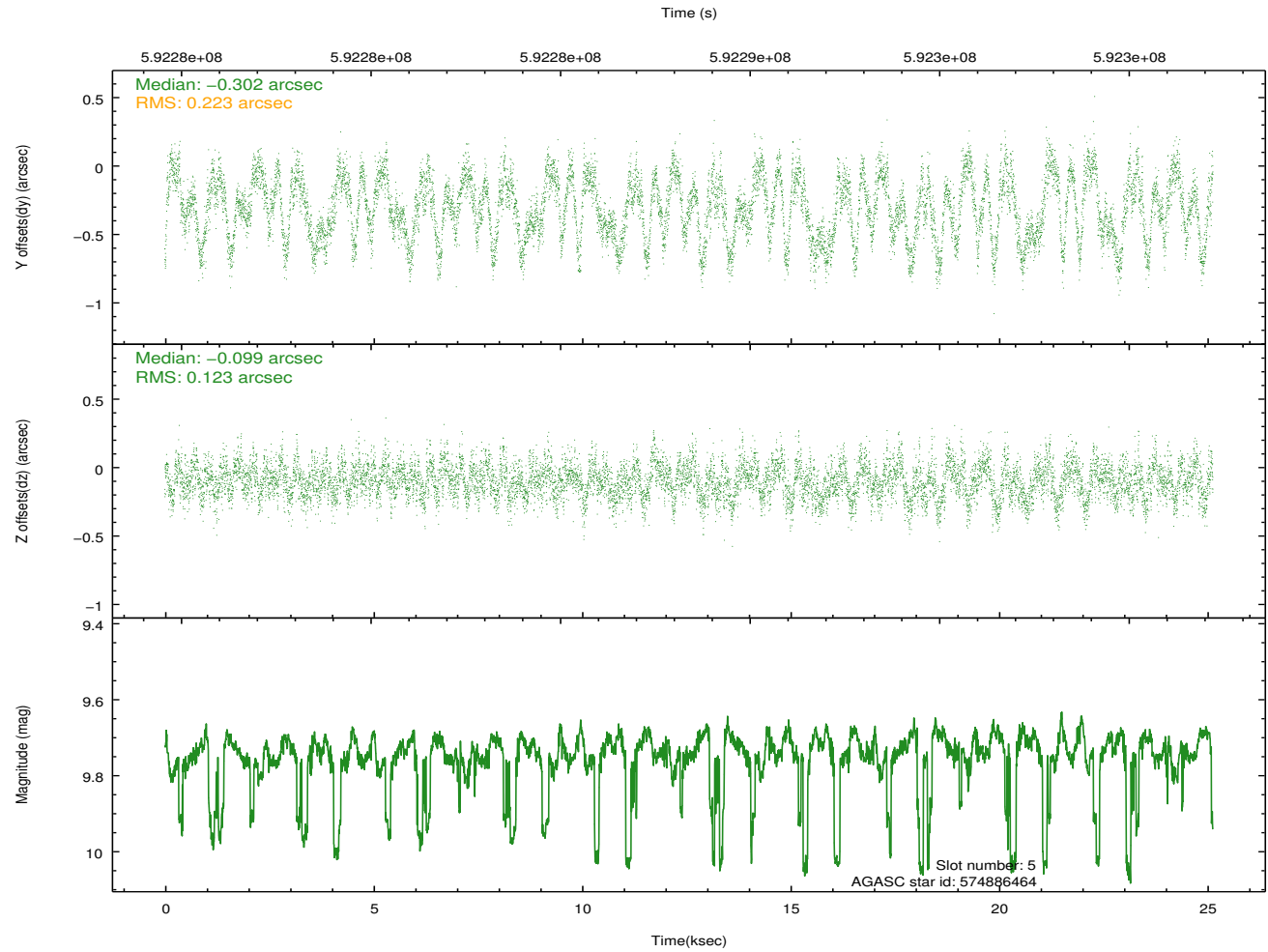
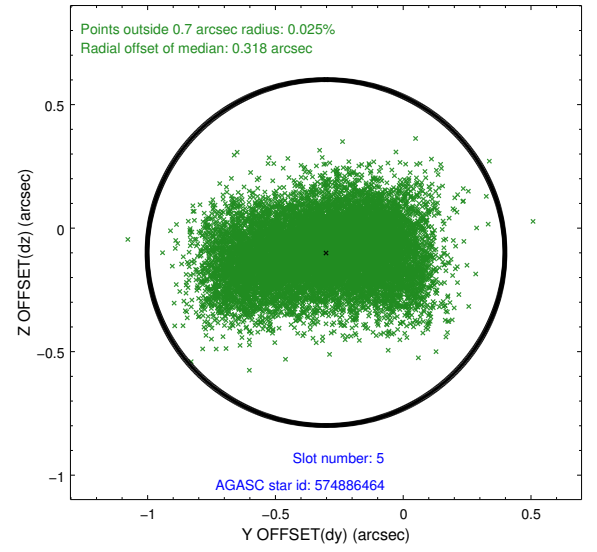
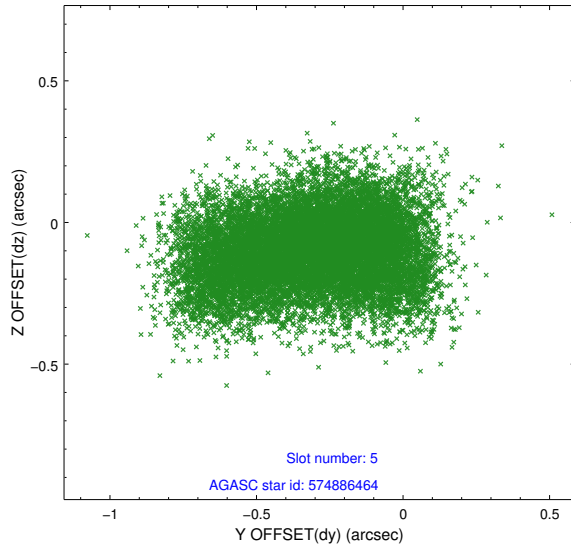
2.4.1 Slot 3



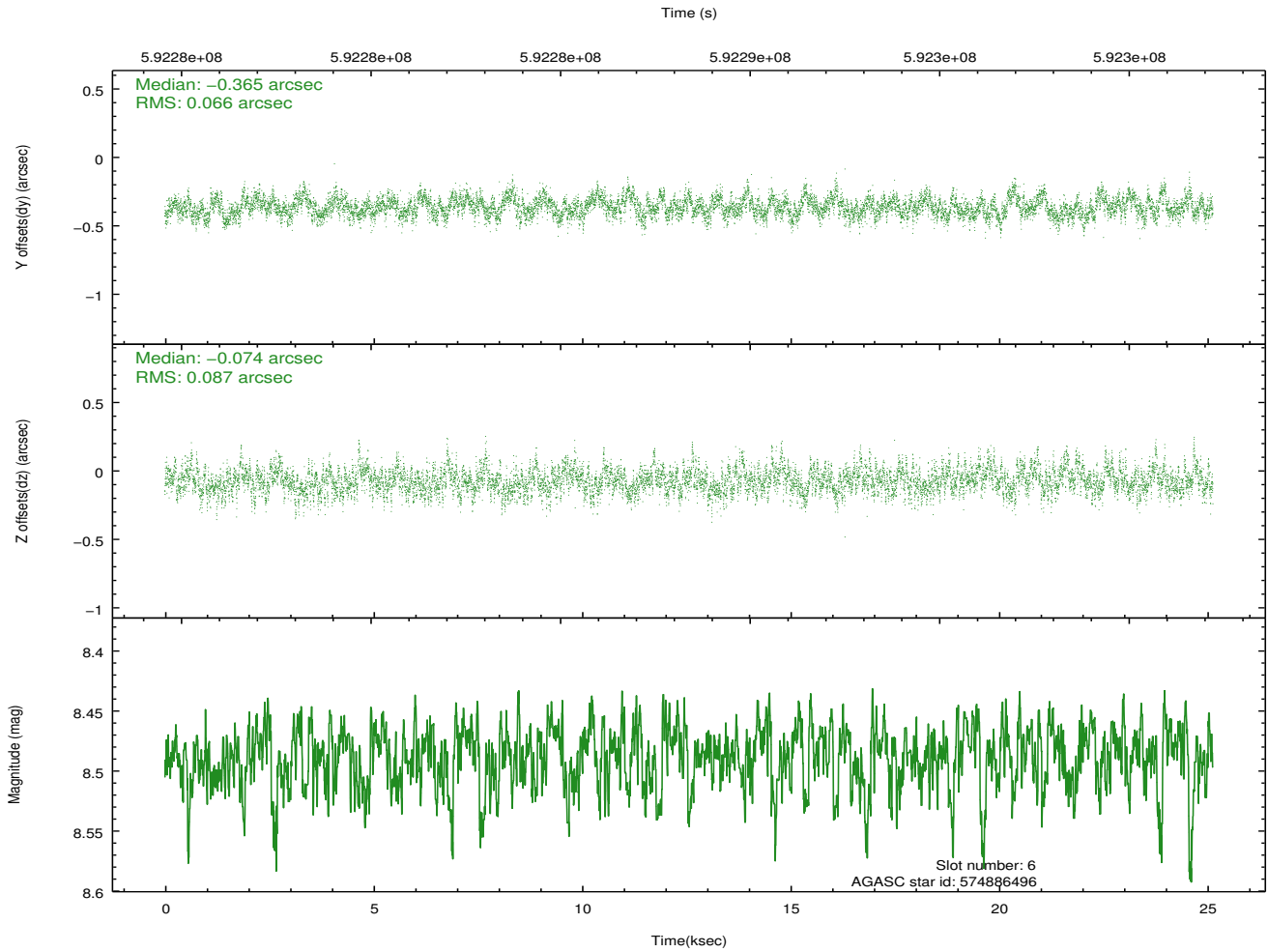
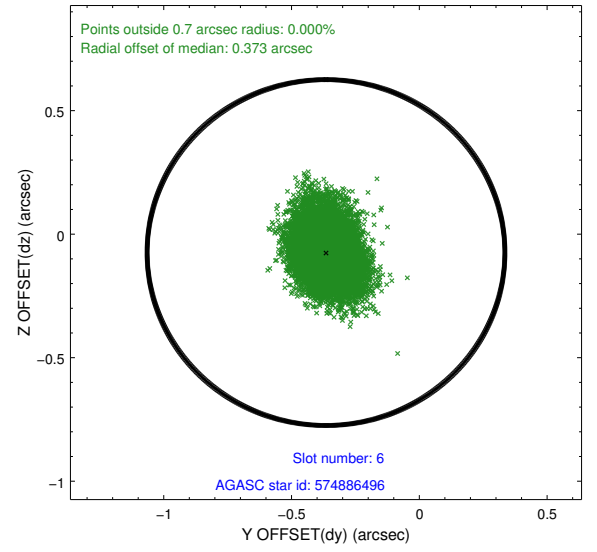
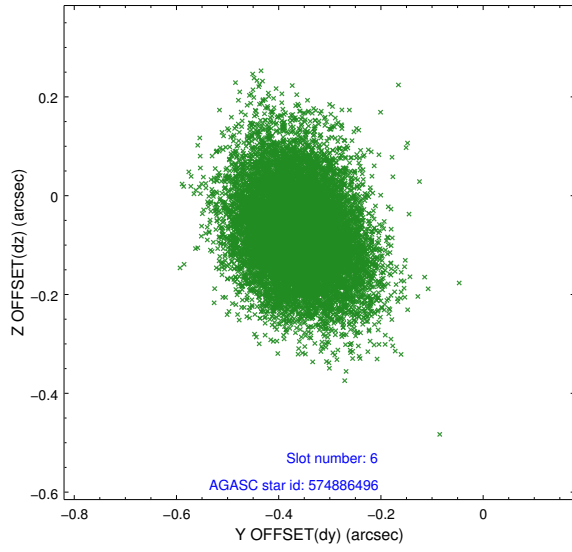
2.4.2 Slot 4



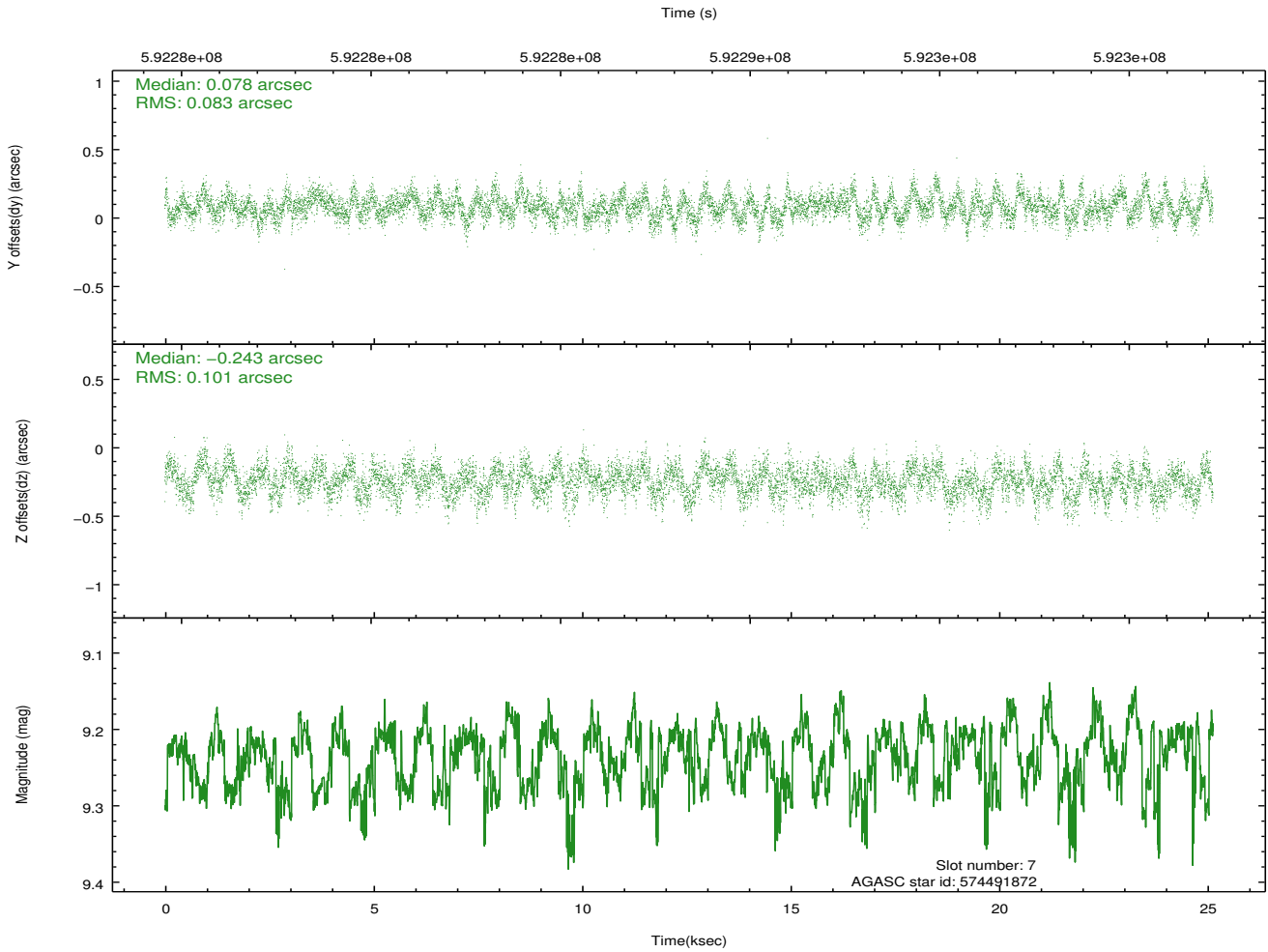
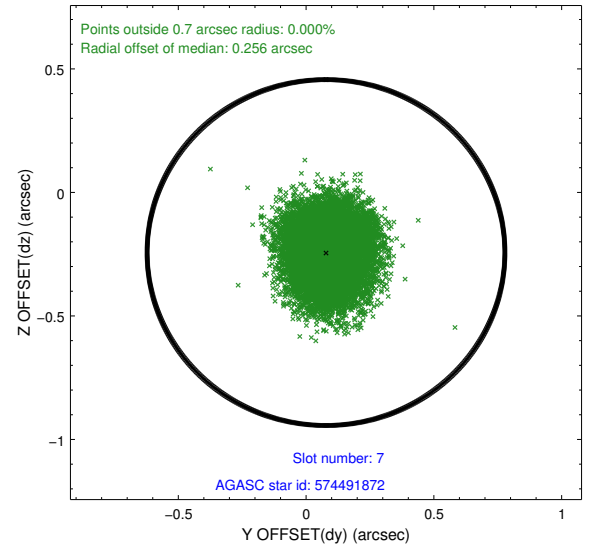
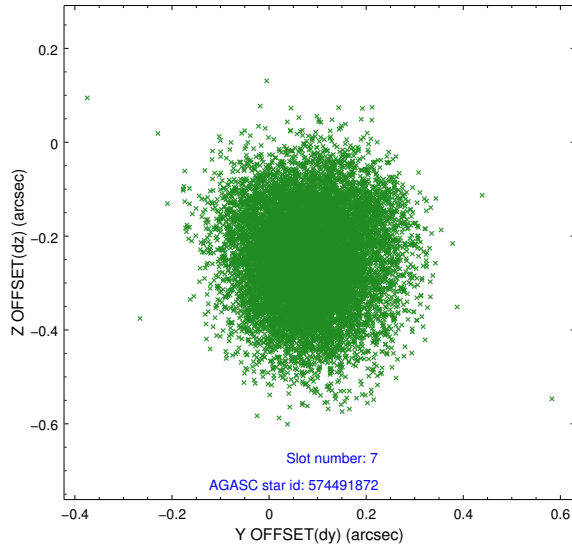
2.4.3 Slot 5



2.4.4 Slot 6

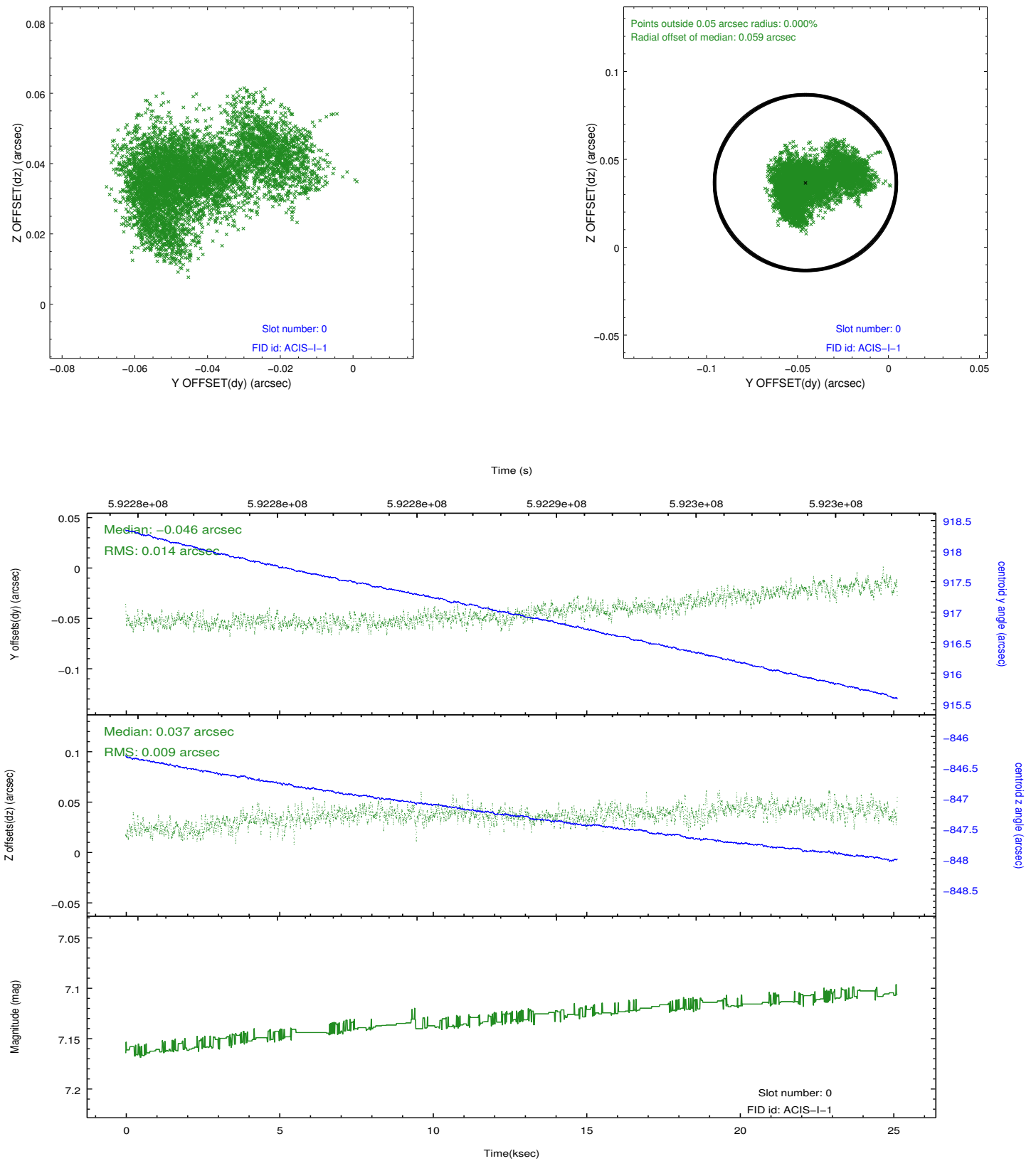


2.4.5 Slot 7

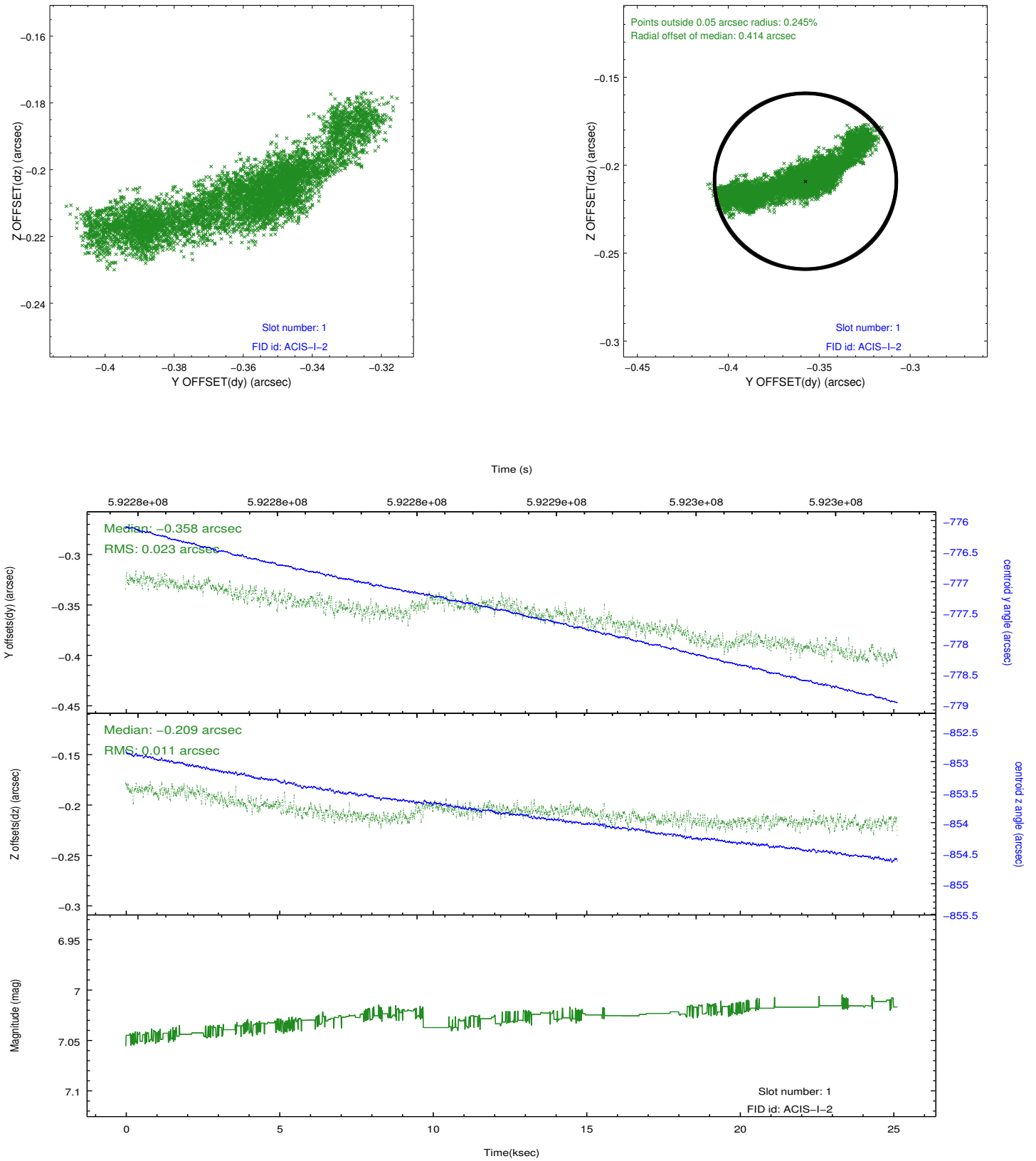


2.5 FID Slots

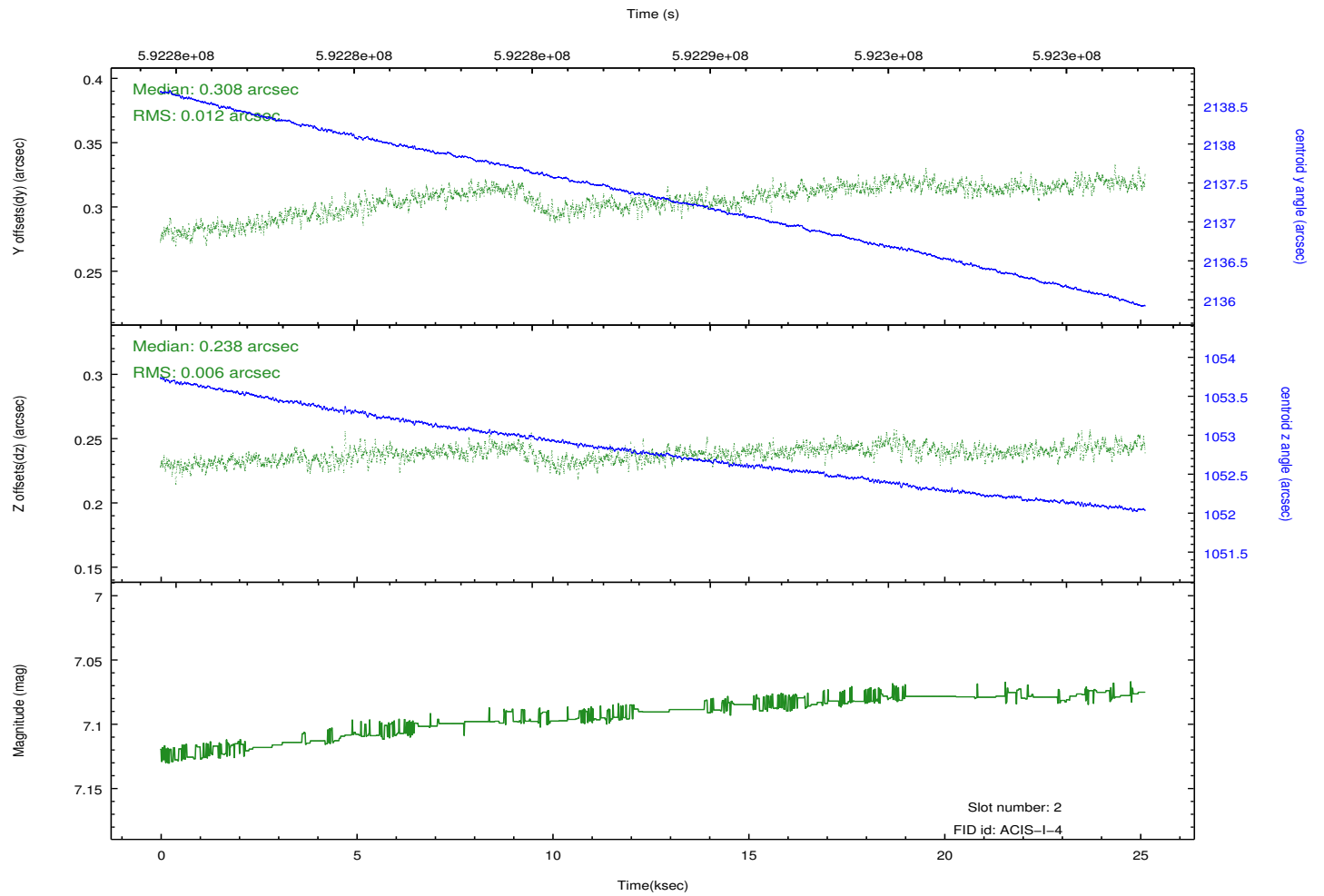
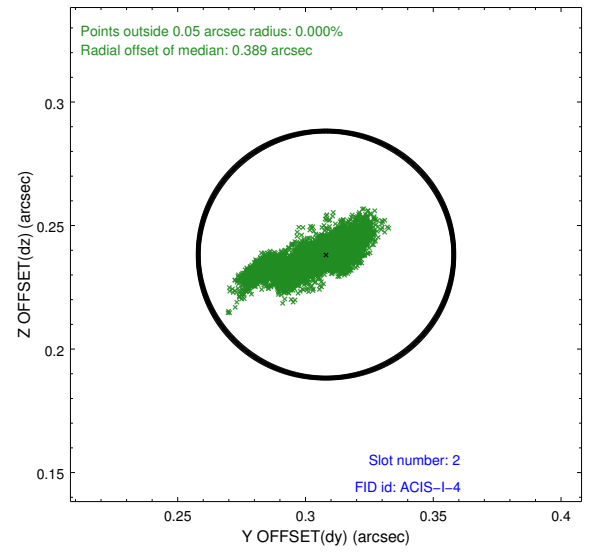
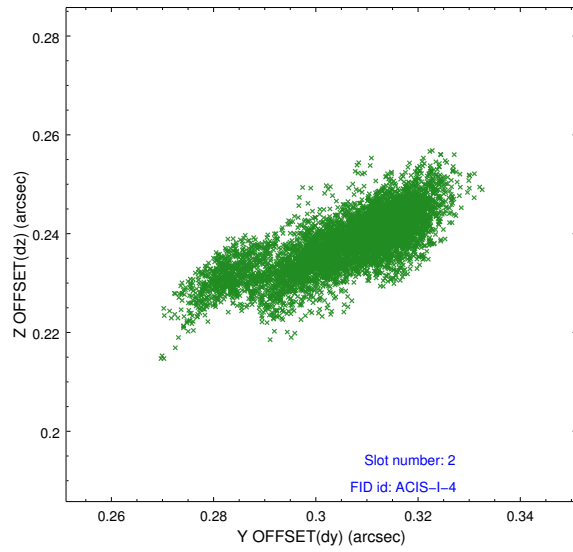
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2016.10.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.102

A.2 Comments

Roll constraint met.