

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18062 - L2 Version 1
Chandra X-Ray Center

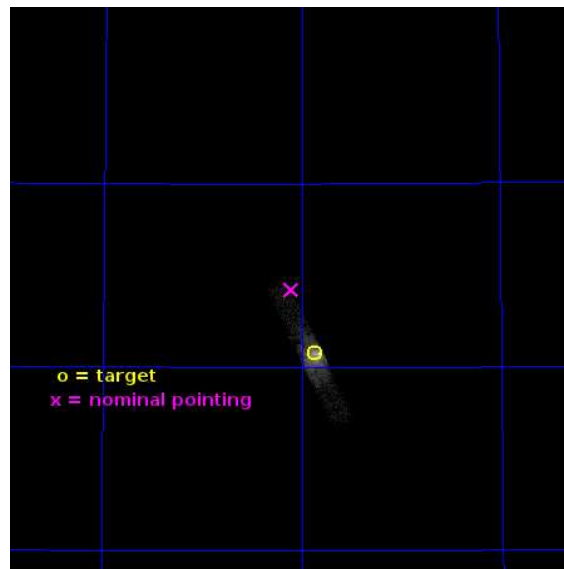
L2 Processing Date : Jan 27 2016

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

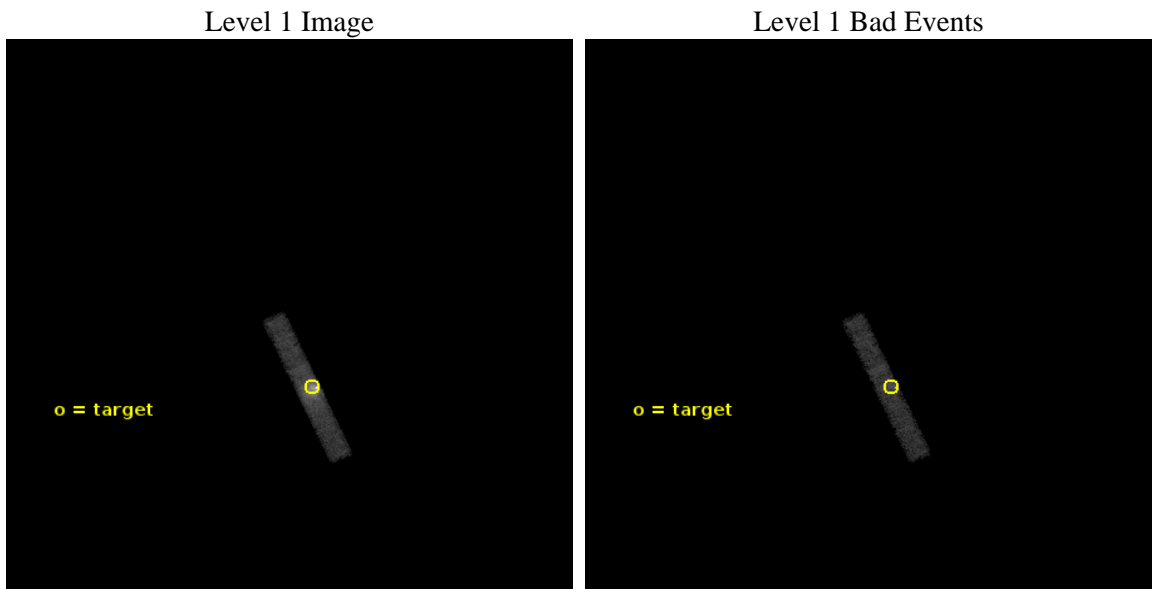
seq_num	601244	Sequence number
obs_id	18062	Observation id
title	Timing and Spectral Studies of the Extreme Binary Population in M82	
observer	Professor Fiona Harrison	Principal investigator
object	M82 offset 1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	148.969583	Observer's specified target RA [deg]
dec_targ	69.679444	Observer's specified target Dec [deg]
ra_nom	149.02733120605	Nominal RA [deg]
dec_nom	69.73725591889	Nominal Dec [deg]
roll_nom	155.35111490955	Nominal Roll [deg]
revision	1	Processing version of data
ontime	25099.458969712	Sum of GTIs [s]
livetime	23195.566843221	Livetime [s]
ontime3	25099.458969712	Sum of GTIs [s]
l2events	42563	Number of level 2 events



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 3



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	25099.458969712	Sum of GTIs [s]
caldbver	4.7.0	 	ontime3	25099.458969712	Sum of GTIs [s]
date	2016-01-27T15:18:05	Date and time of file creation	l1events	76033	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

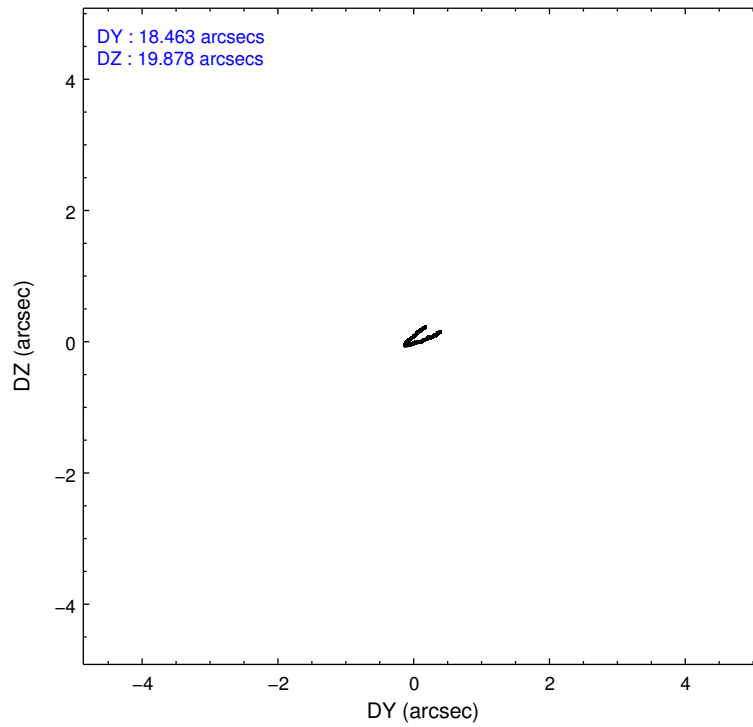
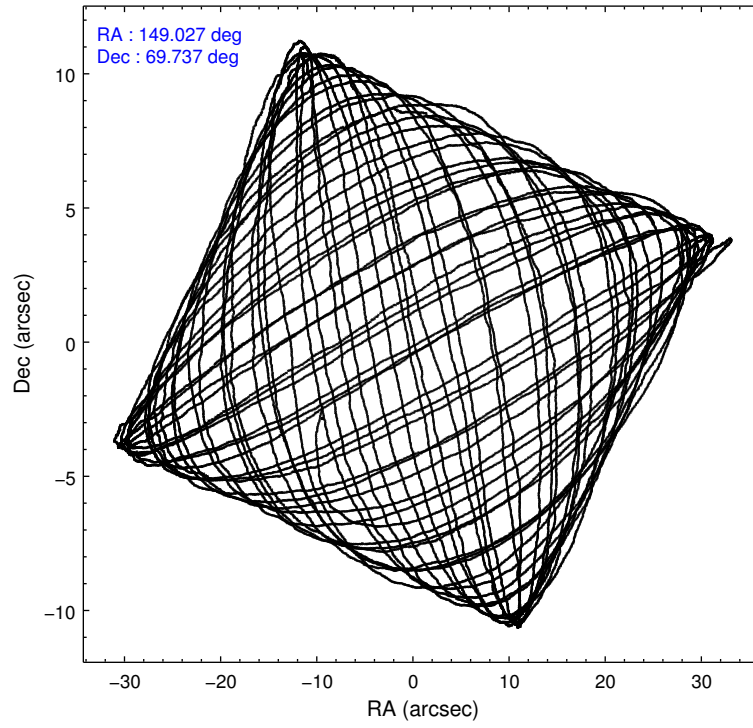
	ccd 3
level 1 events	76033
rejected events	27266
rejected %	35%

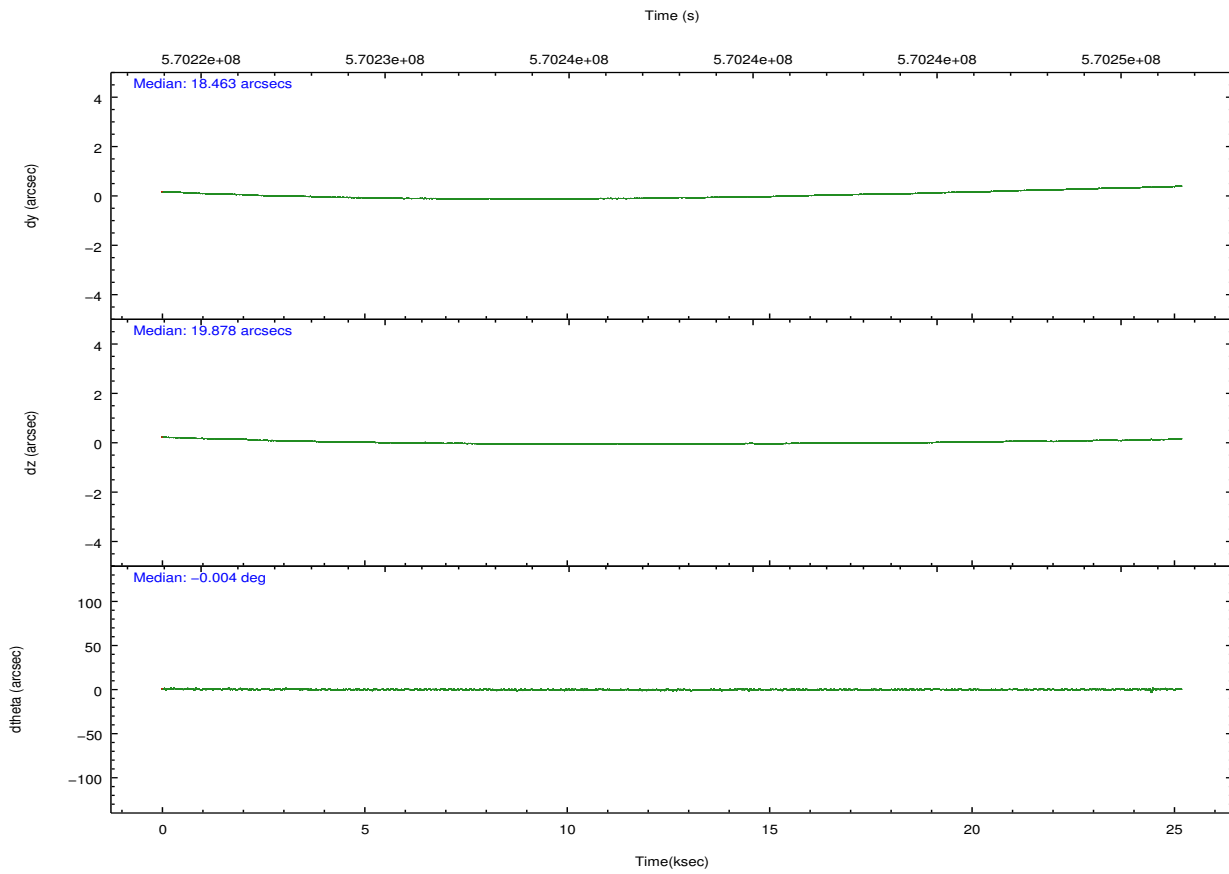
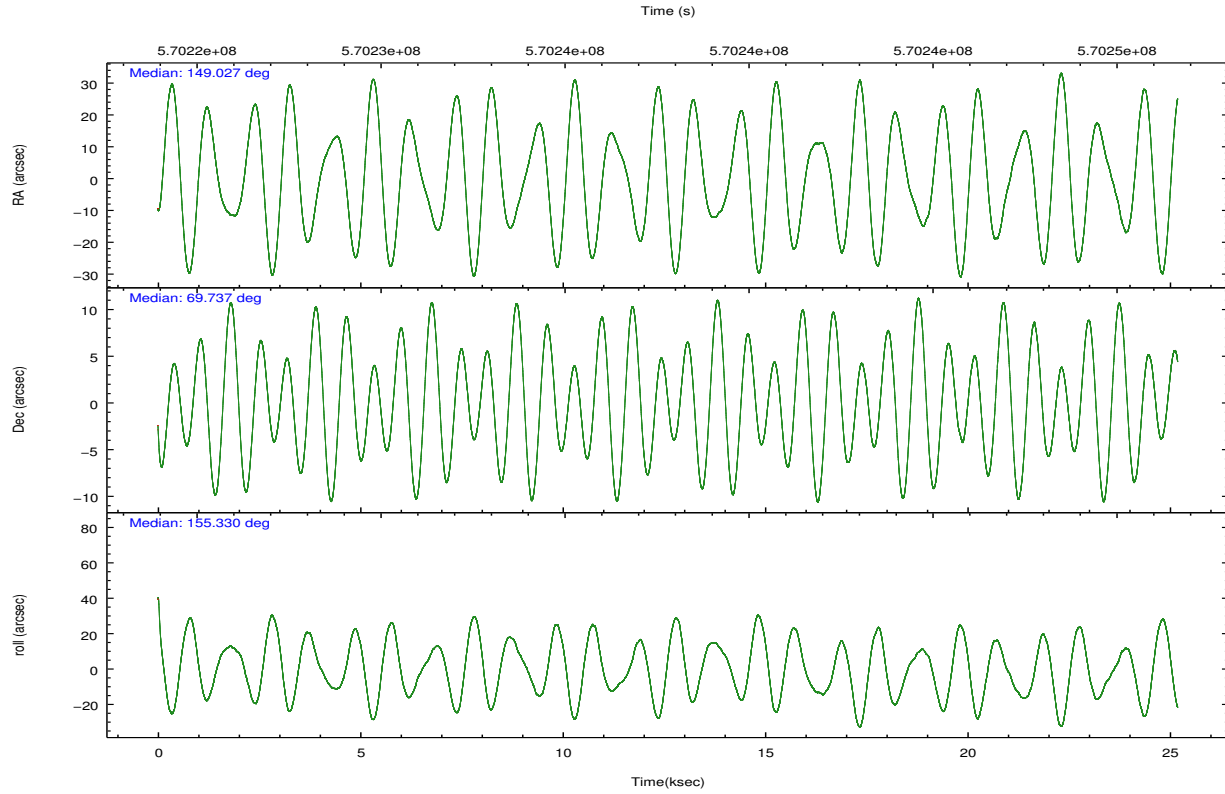
	ccd 3
grade 0 events	37980
	49%
grade 1 events	1496
	1%
grade 2 events	4611
	6%
grade 3 events	2186
	2%
grade 4 events	2129
	2%
grade 5 events	1758
	2%
grade 6 events	1861
	2%
grade 7 events	24012
	31%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-3	ACIS-3	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	149.106665	149.0273312060531	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	69.739917	69.73725591889024	Subarray start row	897	897
[deg] Pointing Roll	155.067990	155.3511149095452	Subarray row count	128	128
[mm] SIM focus pos	-0.782348	-0.7809083437167272	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001439871863259334	[s] Primary exposure time	0.000000	0.5
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	570225393.184000	570224757.14153			
Observation start date	2016-01-26T19:55:25	2016-01-26T19:45:57			
[s] Observation end time (MET)	570250393.184000	570251228.28054			
Observation end date	2016-01-27T02:52:05	2016-01-27T03:07:08			
Read mode	TIMED	TIMED			

2.3 Aspect



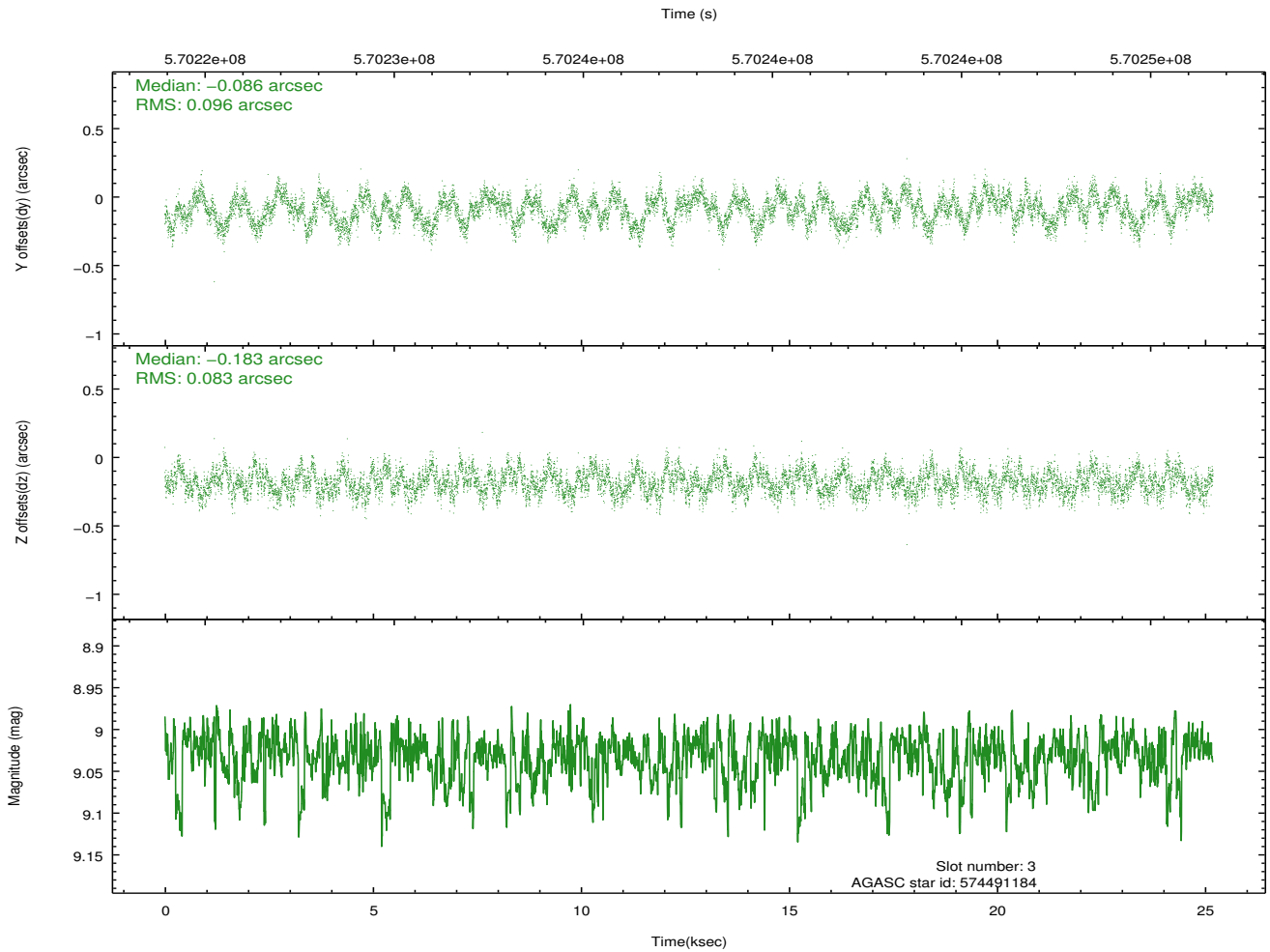
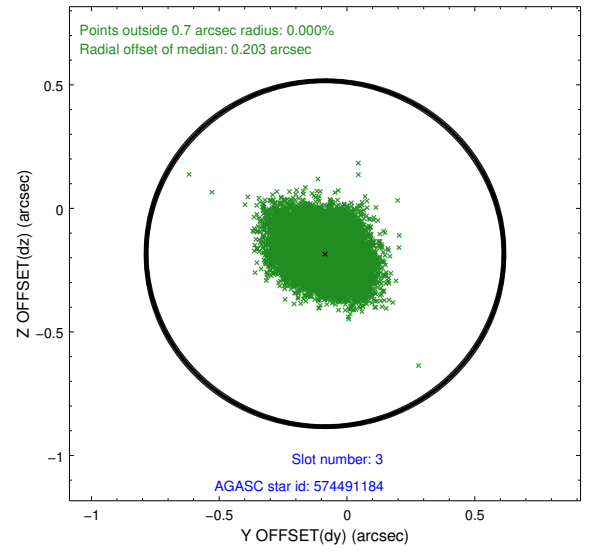
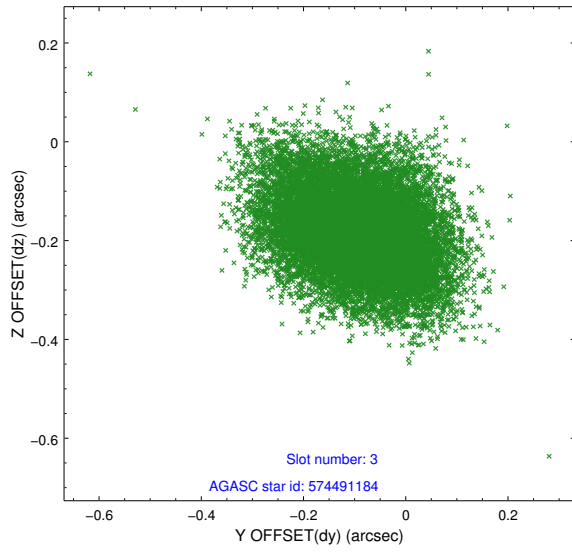


Slot Statistics

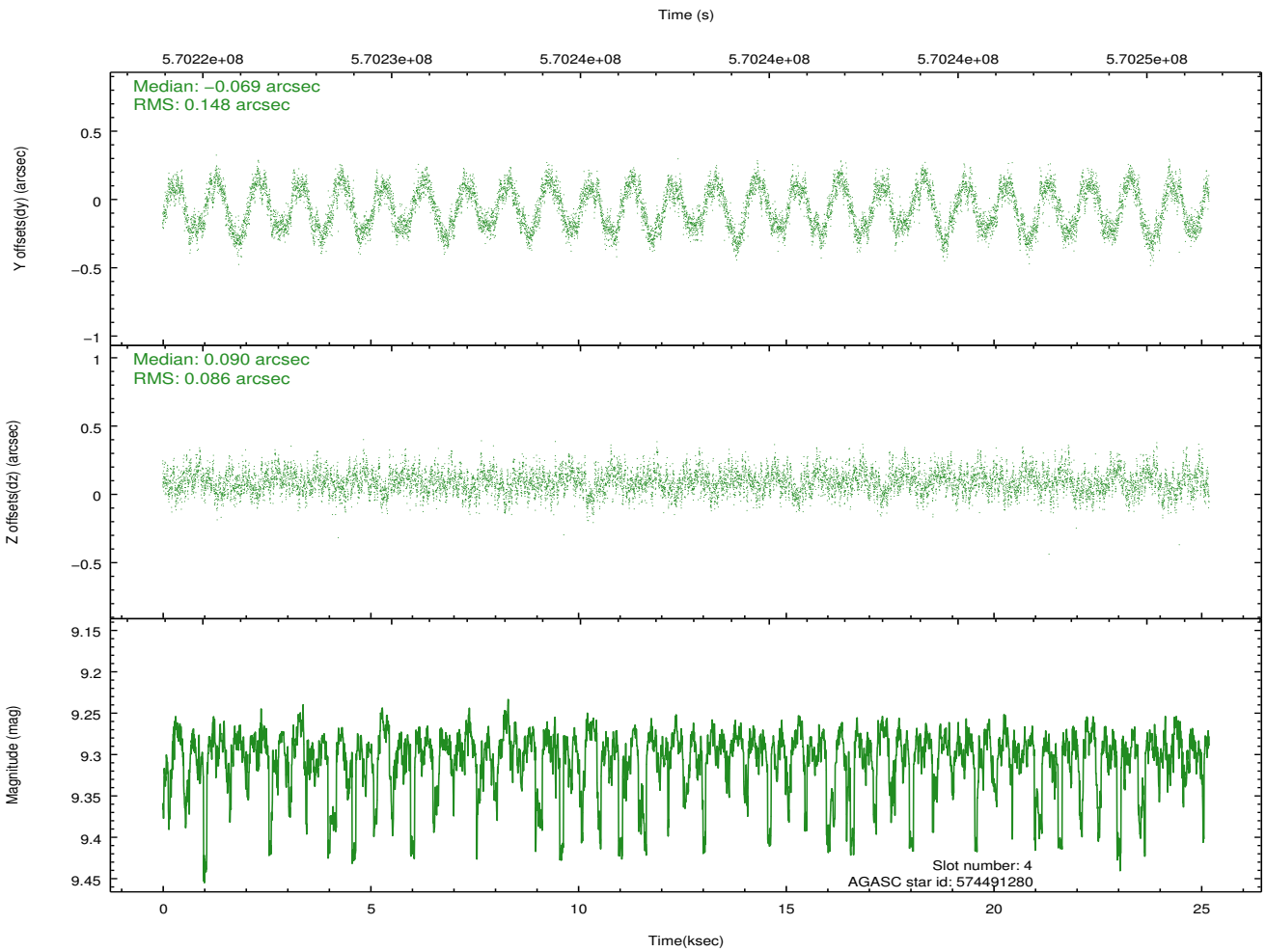
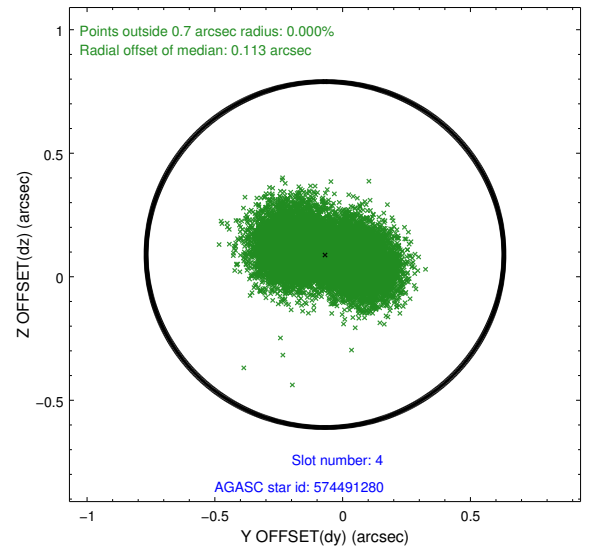
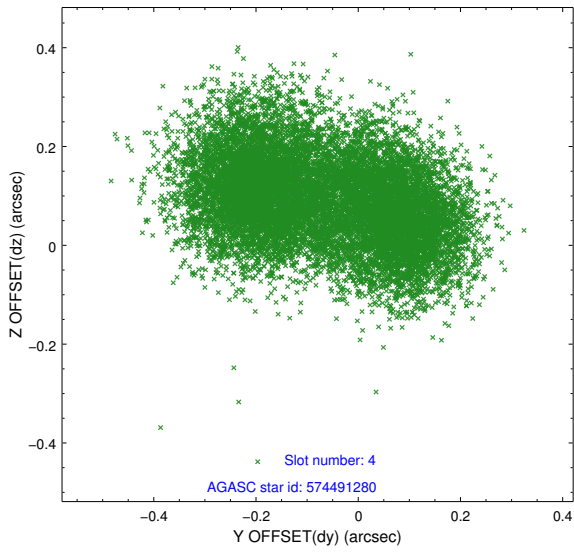
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.27	6145	0.079	-0.055	0.008	0.015	0.000000	0.000000	920.98	-843.64
1	FID		ACIS-I-5	7.27	6145	-0.378	0.030	0.006	0.011	0.000000	0.000000	-1827.60	1053.75
2	FID		ACIS-I-6	7.28	6145	0.207	0.095	0.008	0.013	0.000000	0.000000	386.41	1698.55
3	GUIDE	used	574491184	9.03	12285	-0.086	-0.183	0.137	0.213	148.582453	69.768699	636.63	178.23
4	GUIDE	used	574491280	9.30	12276	-0.069	0.090	0.189	0.276	148.611567	69.450135	129.47	1209.46
5	GUIDE	used	574491872	9.23	12274	-0.066	-0.331	0.130	0.207	147.207613	69.765453	2196.20	885.06
6	GUIDE	used	574886496	8.48	12283	0.156	0.332	0.095	0.166	148.945563	70.041136	637.82	-900.15
7	GUIDE	used	574885216	8.51	12278	0.063	0.087	0.109	0.180	147.834547	70.411352	2418.79	-1558.83

2.4 Star Slots

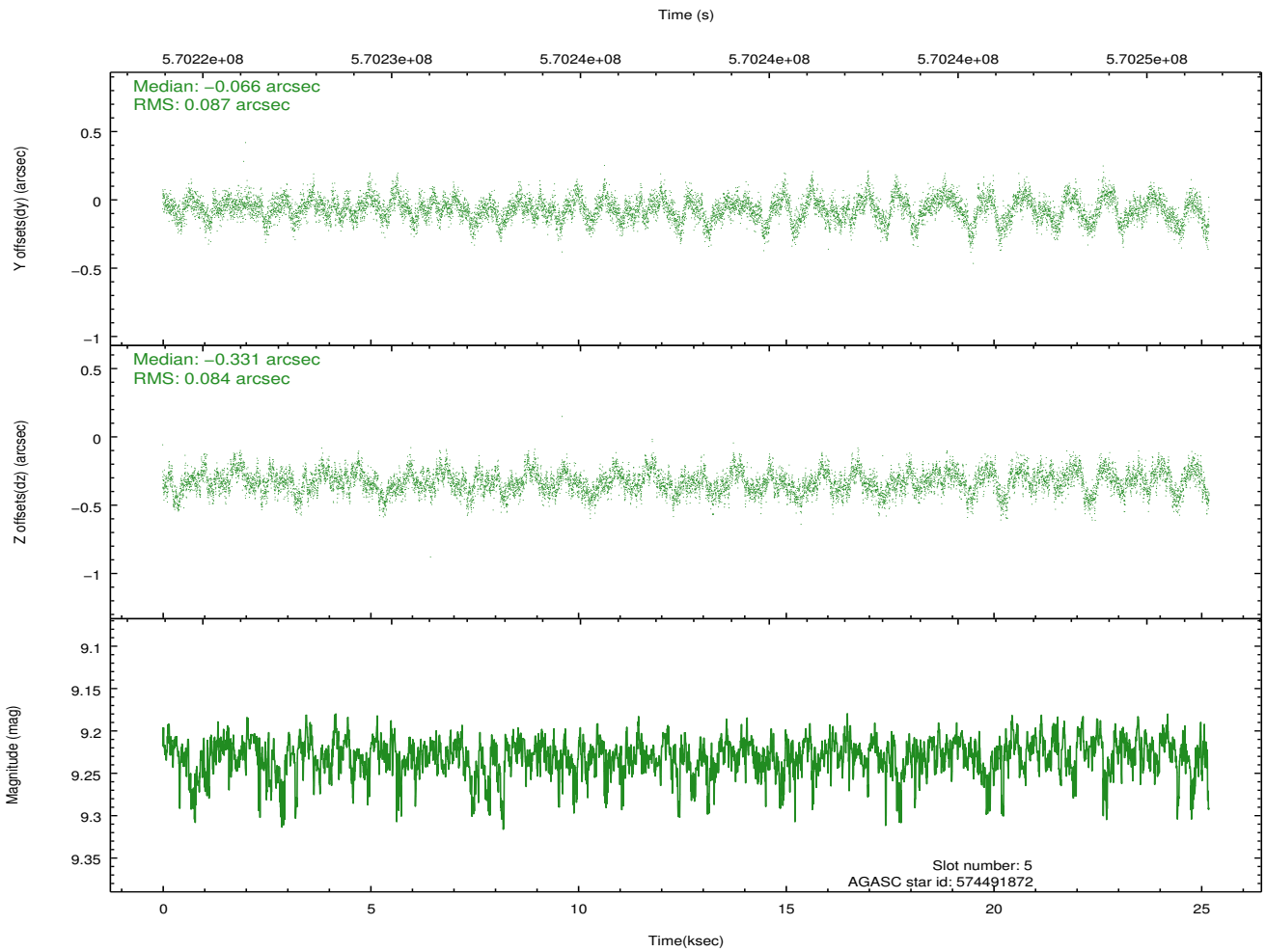
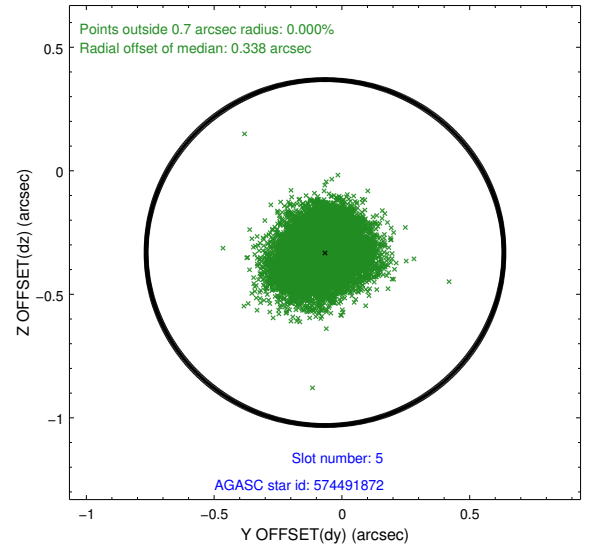
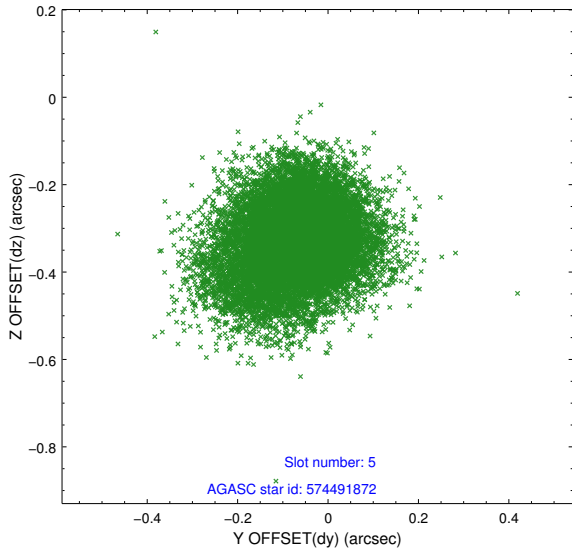
2.4.1 Slot 3



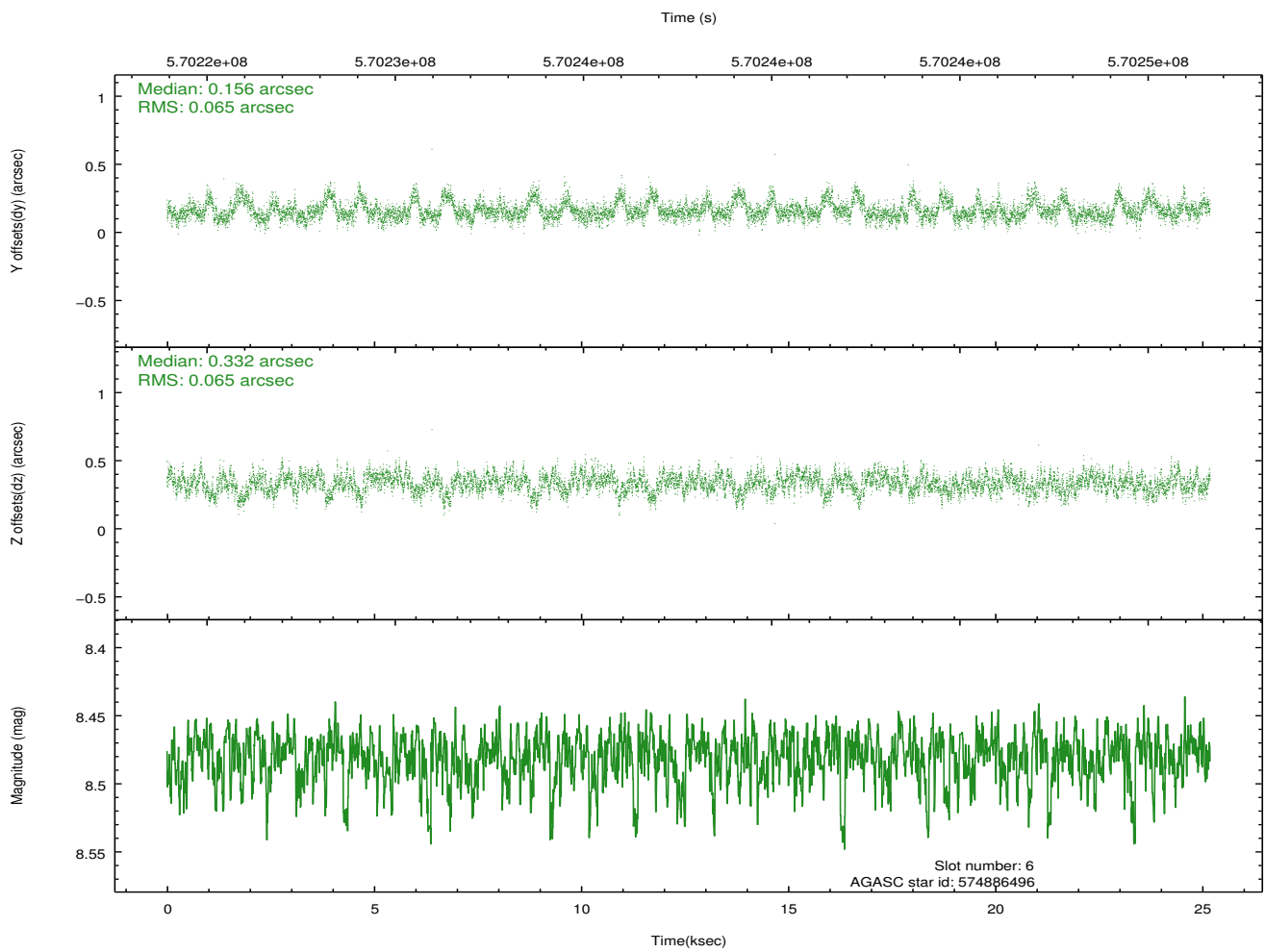
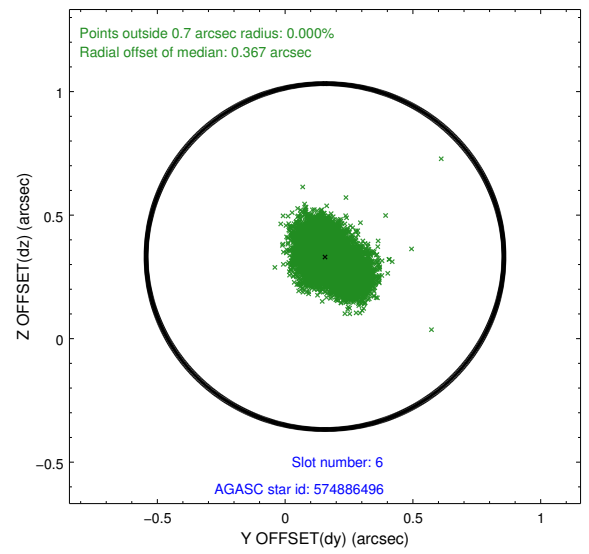
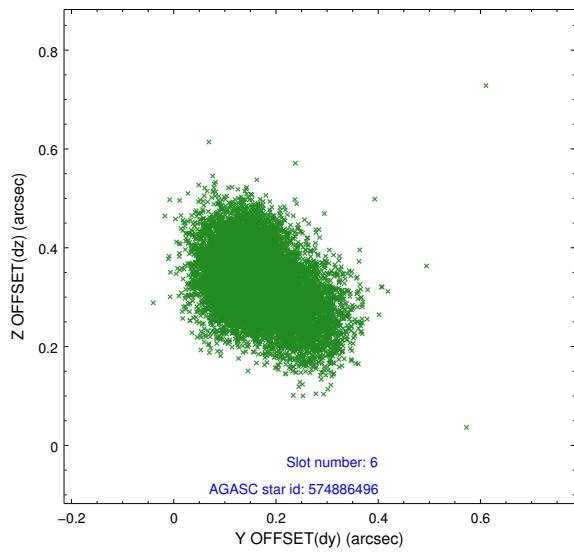
2.4.2 Slot 4



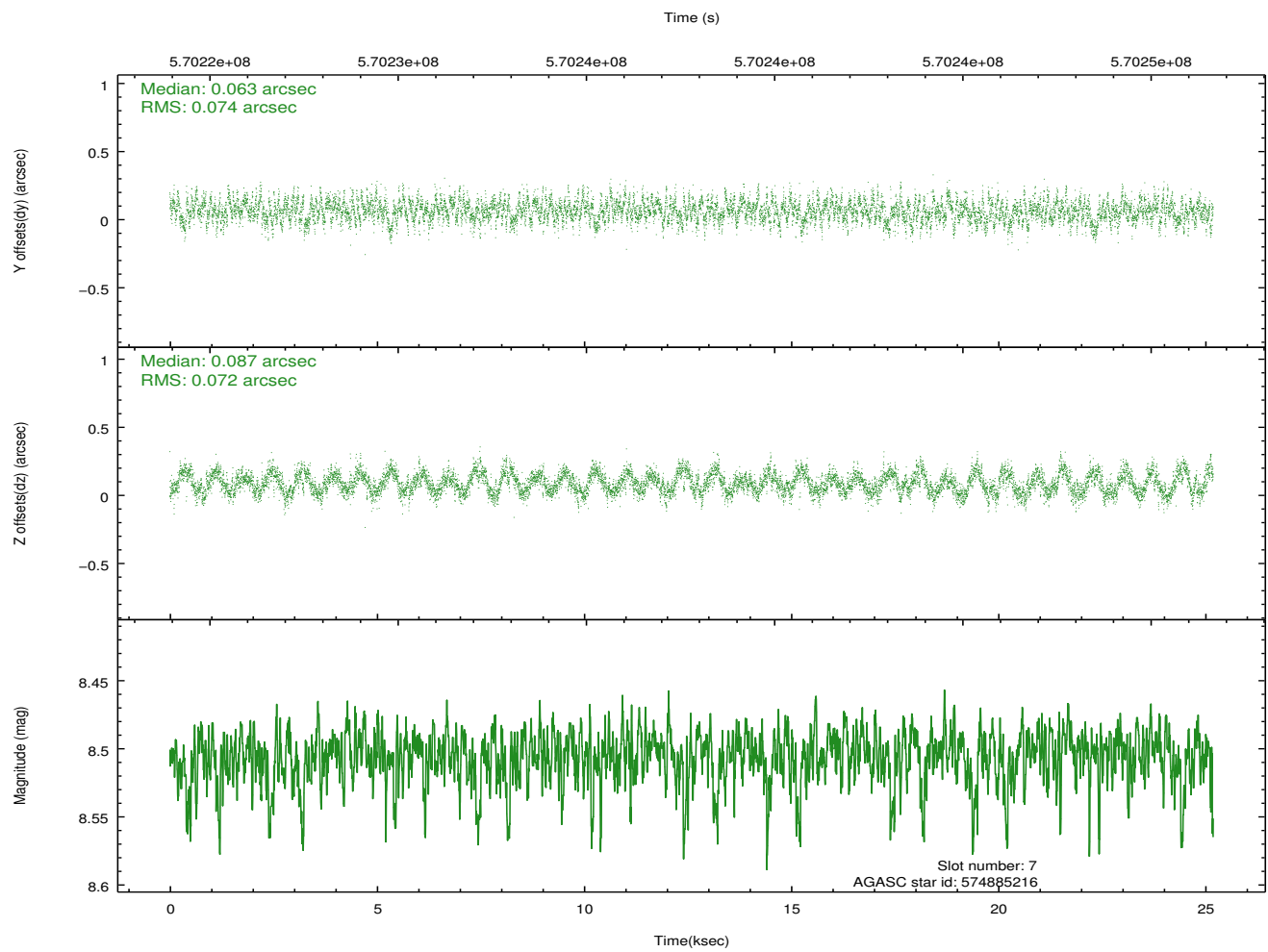
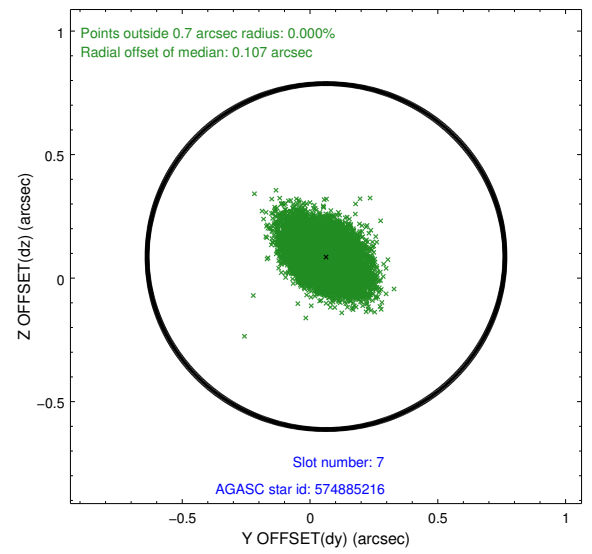
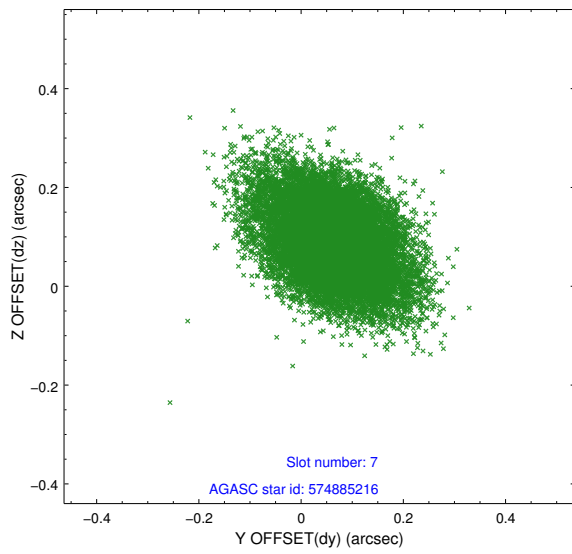
2.4.3 Slot 5



2.4.4 Slot 6

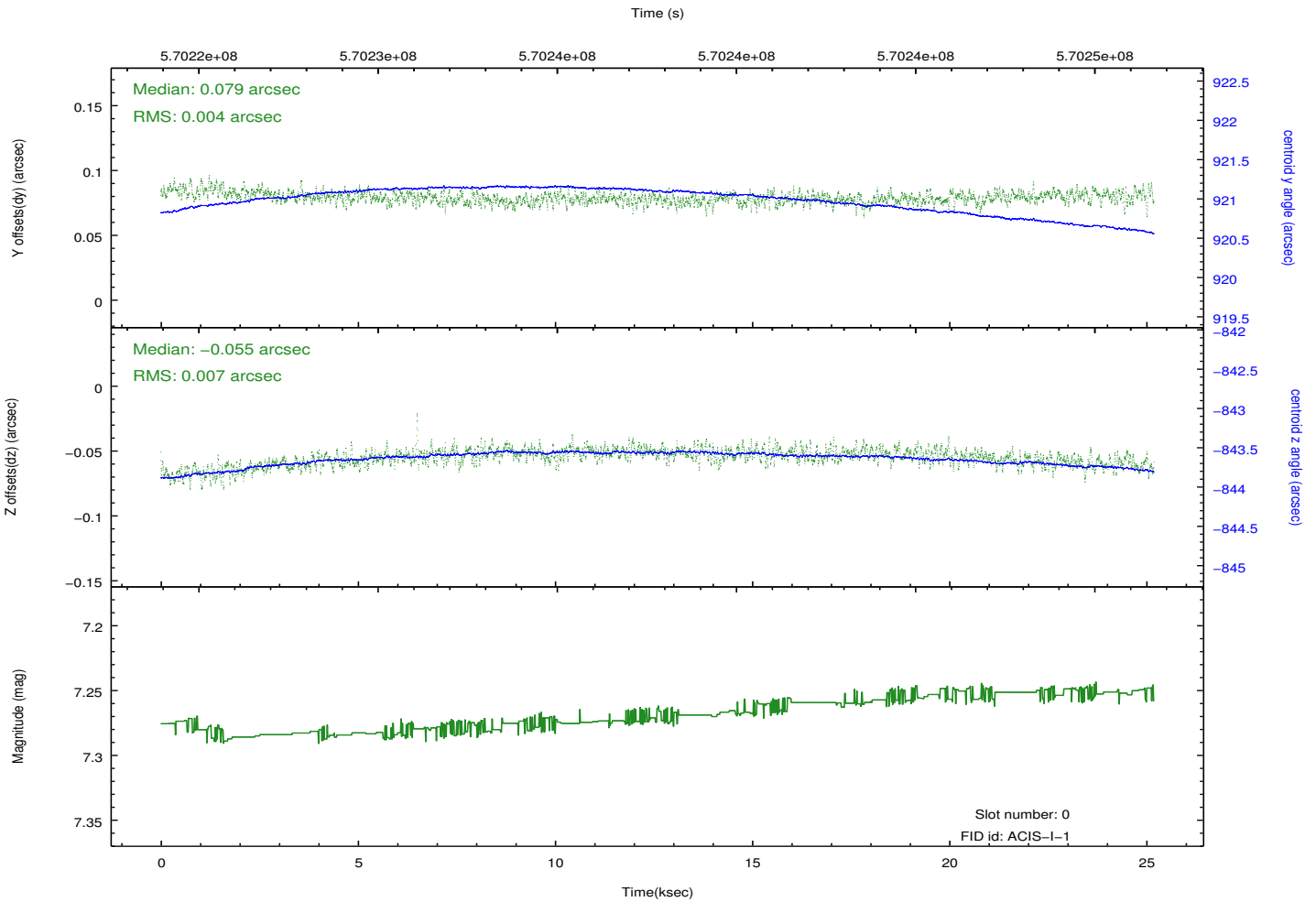
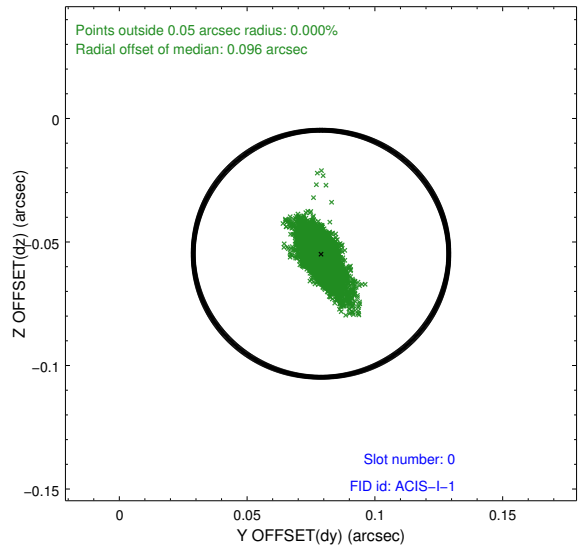
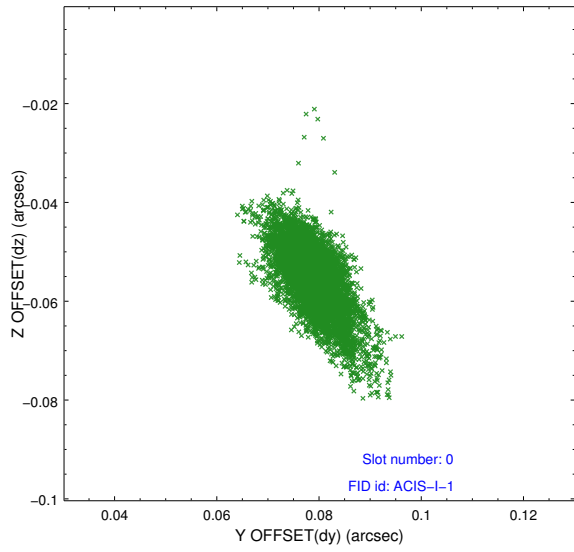


2.4.5 Slot 7

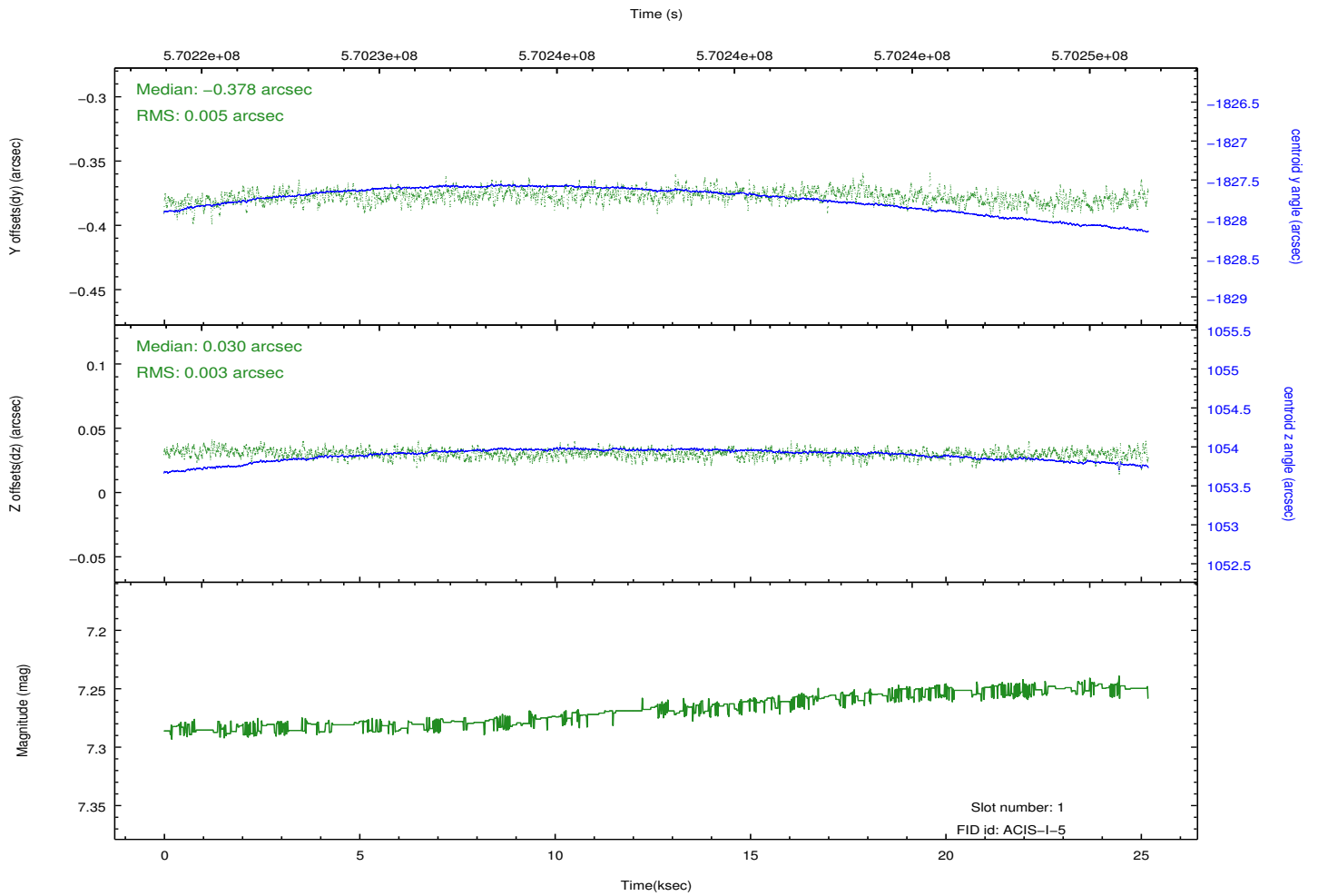
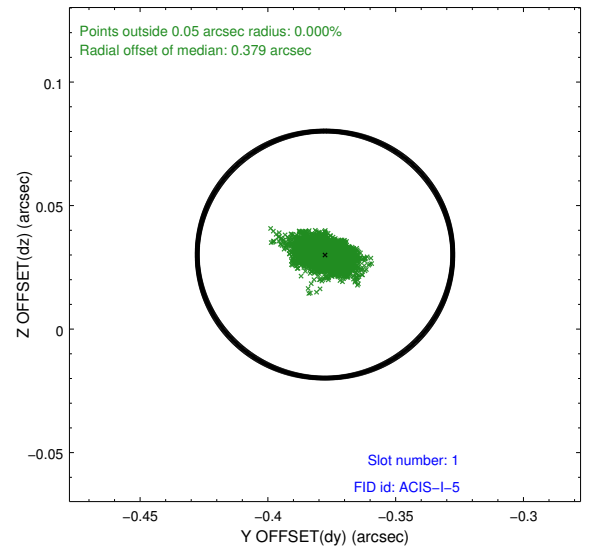
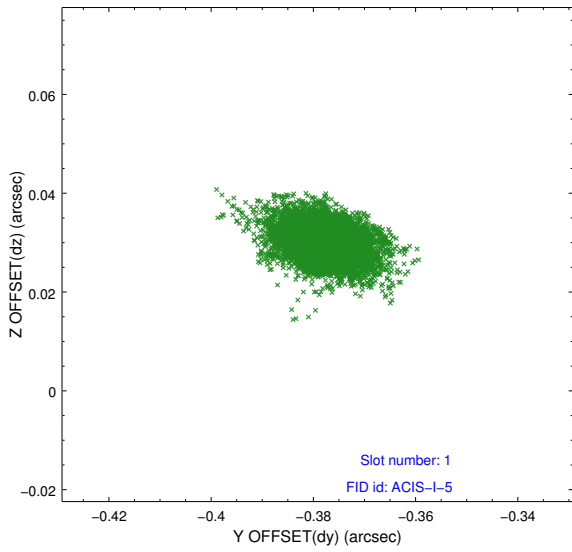


2.5 FID Slots

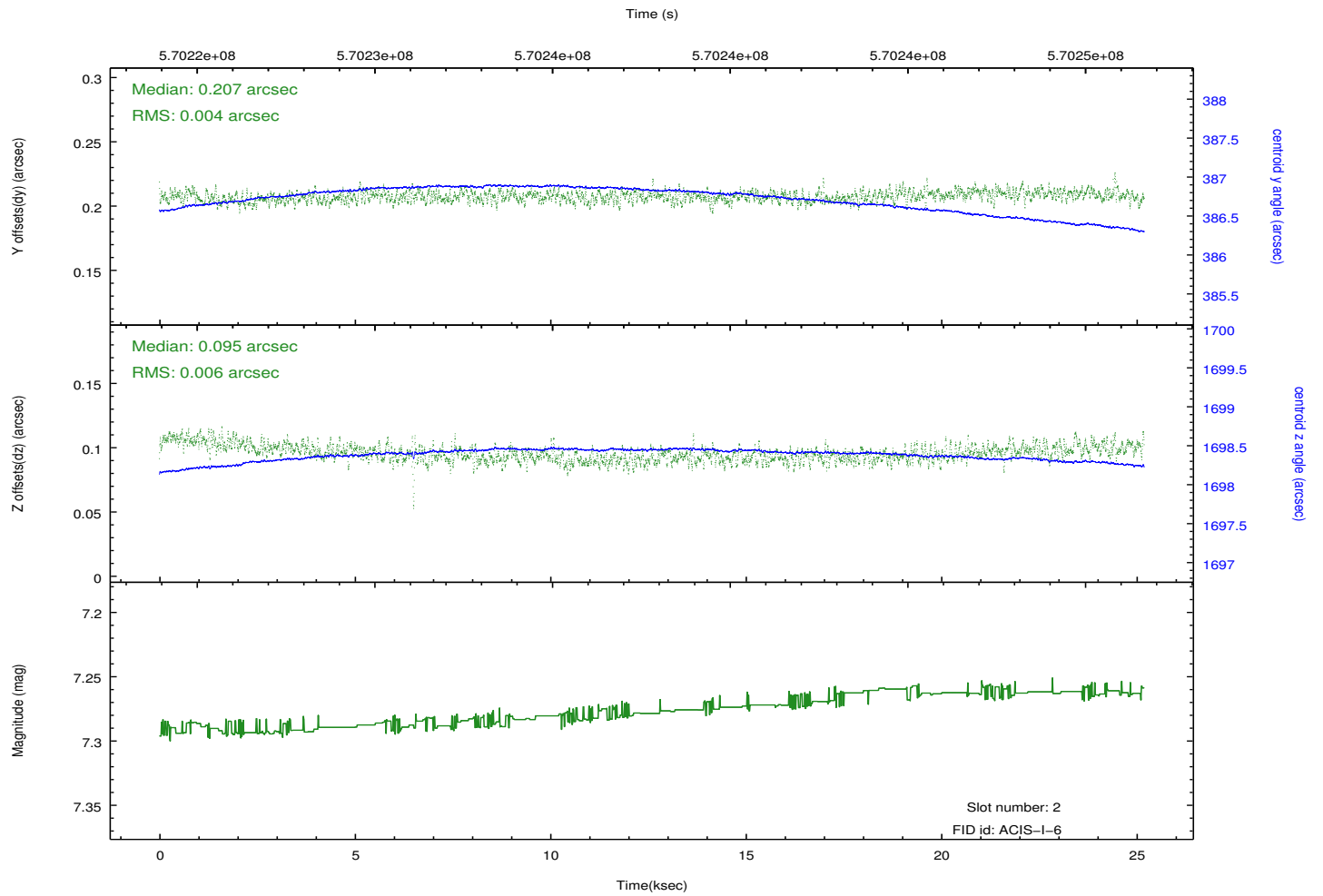
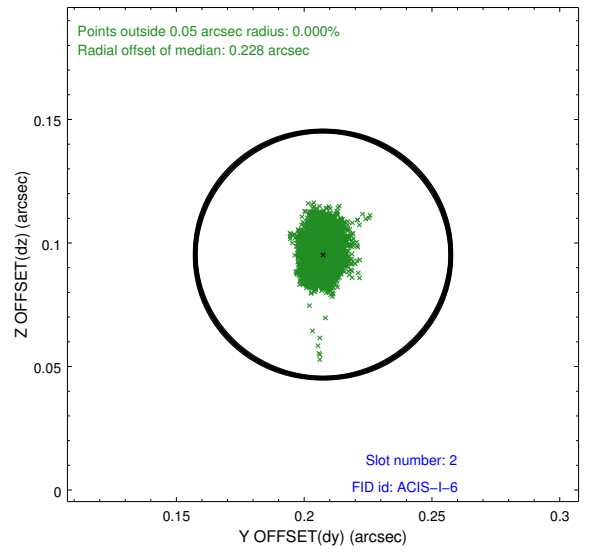
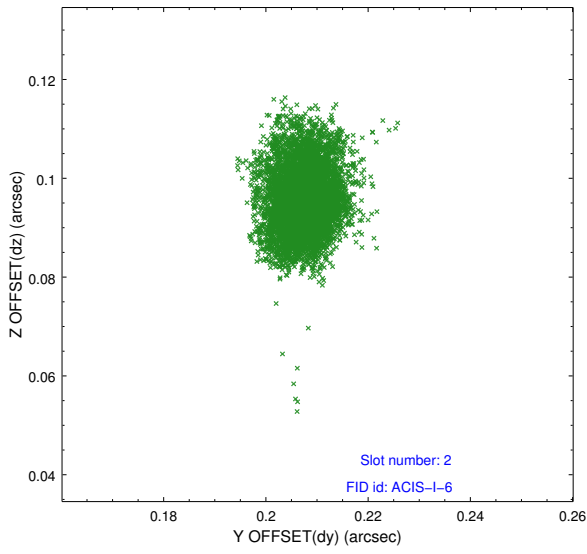
2.5.1 Slot 0



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)	2016.01.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.099458969712

A.2 Comments