

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 5889 - L2 Version 3
Chandra X-Ray Center

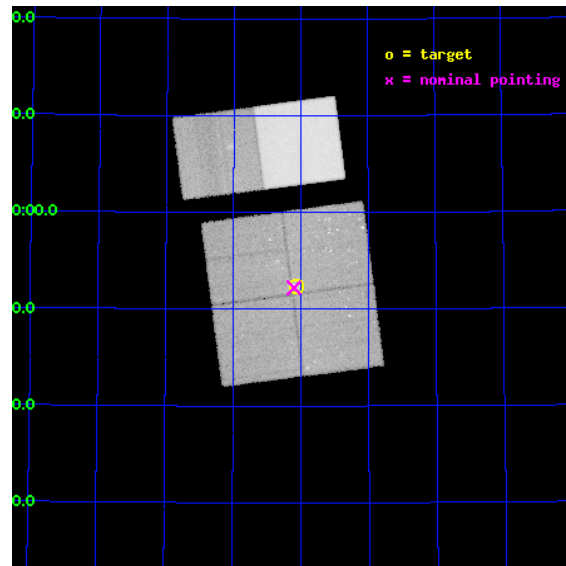
L2 Processing Date : Dec 22 2012

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

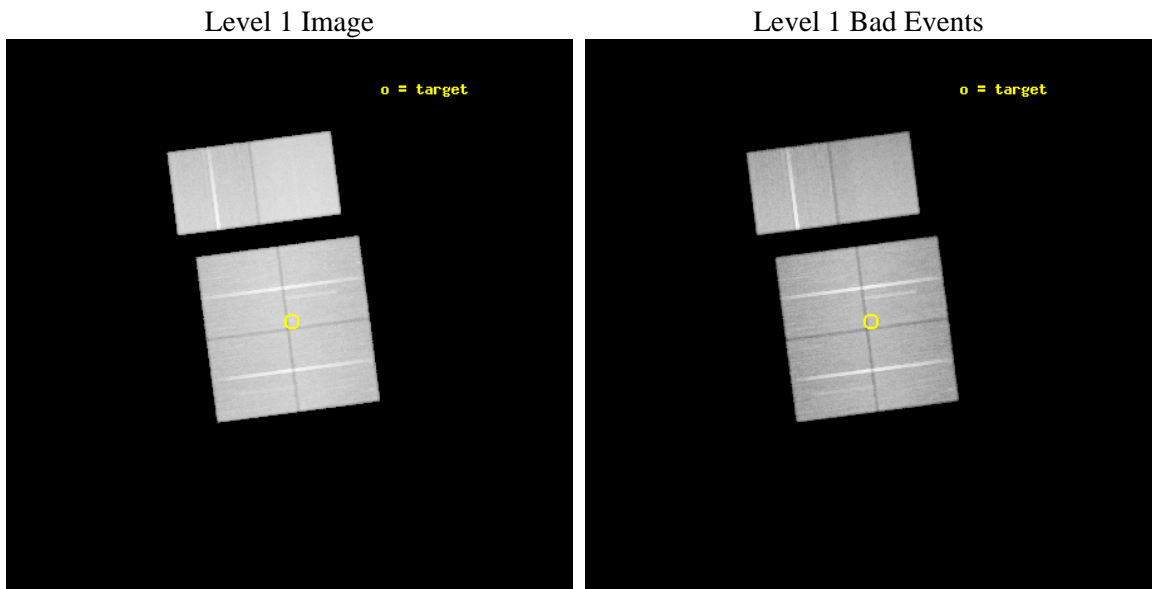
seq_num	900389	Sequence number
obs_id	5889	Observation id
title	Massive Star Life, Death, and Rebirth in the Perseus Arm	Proposal
observer	Dr. Leisa Townsley	Principal investigator
object	W3(OH)	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	36.767083	Observer's specified target RA [deg]
dec_targ	61.872778	Observer's specified target Dec [deg]
ra_nom	36.775603078841	Nominal RA [deg]
dec_nom	61.870426983167	Nominal Dec [deg]
roll_nom	352.54674080696	Nominal Roll [deg]
revision	3	Processing version of data
ontime	72156.717810601	Sum of GTIs [s]
livetime	71243.026002124	Livetime [s]
ontime0	72163.199731171	Sum of GTIs [s]
ontime1	72156.717750788	Sum of GTIs [s]
ontime2	72163.199731171	Sum of GTIs [s]
ontime3	72156.717810601	Sum of GTIs [s]
ontime6	72163.199731171	Sum of GTIs [s]
ontime7	72163.199731171	Sum of GTIs [s]
l2events	586193	Number of level 2 events



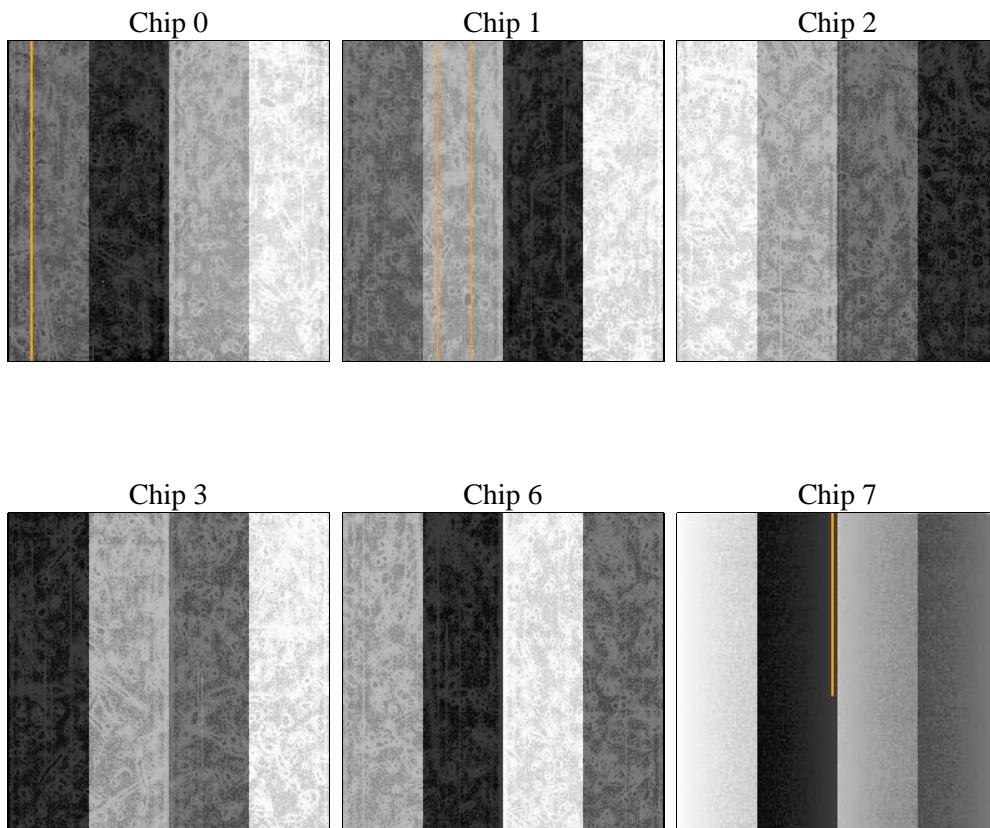
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	72000.000000	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	72156.717810601	Sum of GTIs [s]
caldsver	4.5.5	 	ontime0	72163.199731171	Sum of GTIs [s]
date	2012-12-22T18:20:15	Date and time of file creation	ontime1	72156.717750788	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	72163.199731171	Sum of GTIs [s]
			ontime3	72156.717810601	Sum of GTIs [s]
			ontime6	72163.199731171	Sum of GTIs [s]
			ontime7	72163.199731171	Sum of GTIs [s]
			l1events	3370512	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	489047	497718	539607	536916	569192	738032	grade 0 events	27722	27636	29715	32445	25597	26142
rejected events	423694	428112	474173	467217	503845	434833		5%	5%	5%	6%	4%	3%
rejected %	86%	86%	87%	87%	88%	58%	grade 1 events	273	278	311	352	265	718
								0%	0%	0%	0%	0%	0%
							grade 2 events	14208	15287	13407	13121	13906	60476
								2%	3%	2%	2%	2%	8%
							grade 3 events	6408	6672	6058	6530	6249	26822
								1%	1%	1%	1%	1%	3%
							grade 4 events	5939	6652	6027	6511	6202	26650
								1%	1%	1%	1%	1%	3%
							grade 5 events	22127	23127	21606	24958	25958	70319
								4%	4%	4%	4%	4%	9%
							grade 6 events	11317	13567	10453	11305	13603	164079
								2%	2%	1%	2%	2%	22%
							grade 7 events	401053	404499	452030	441694	477412	362826
								82%	81%	83%	82%	83%	49%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	36.722032	36.77560307884085	Subarray requested	NONE	NONE
[deg] Pointing Dec	61.859827	61.87042698316651	Alternating exposures requested	N	N
[deg] Pointing Roll	352.385287	352.5467408069622	[s] Primary exposure time	0.000000	3.2
[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)	230615635.184000	230614458.66324			
Observation start date	2005-04-23T03:52:51	2005-04-23T03:34:18			
[s] Observation end time (MET)	230687635.184000	230688665.59162			
Observation end date	2005-04-23T23:52:51	2005-04-24T00:11:05			
Read mode	TIMED	TIMED			

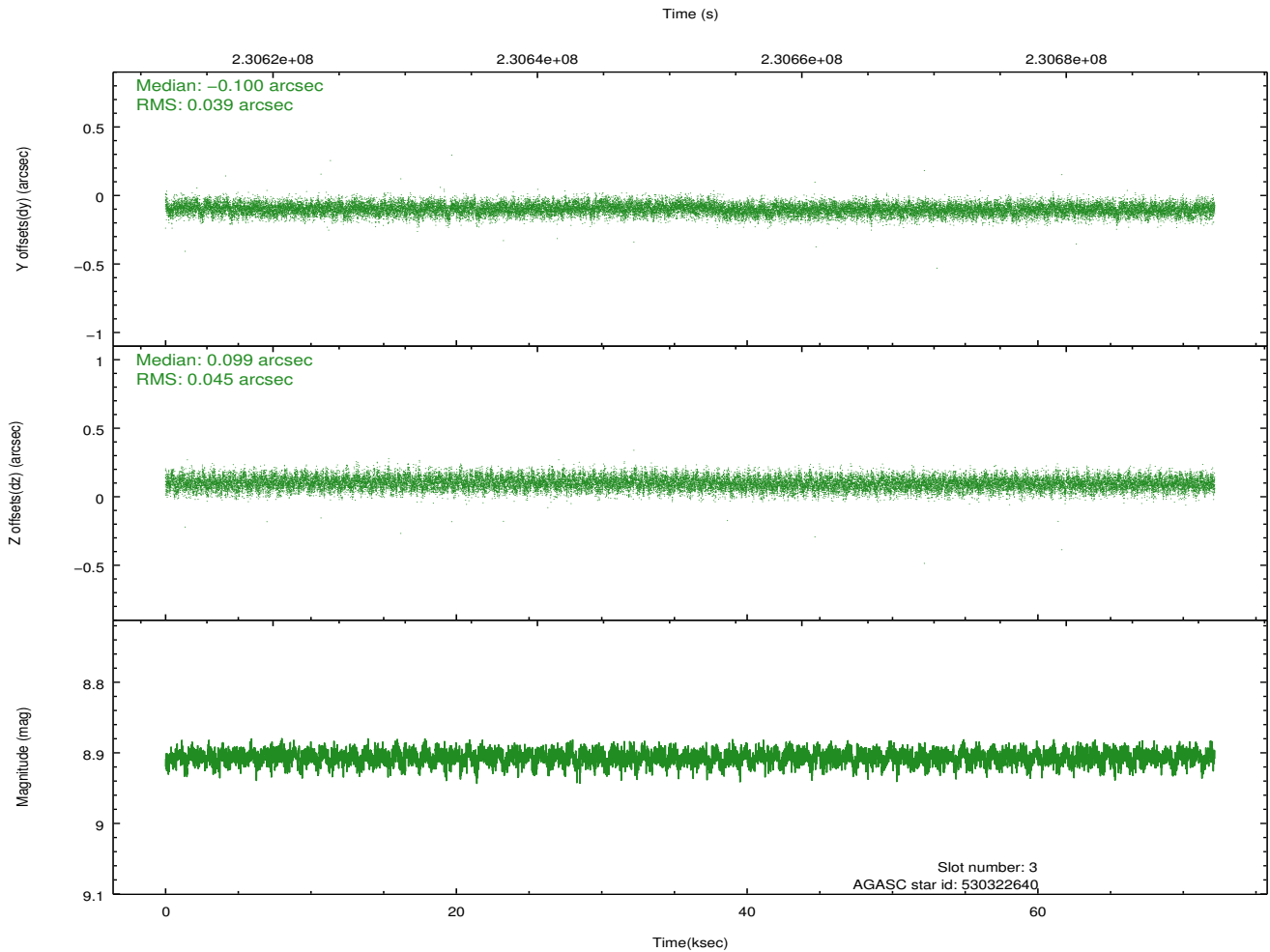
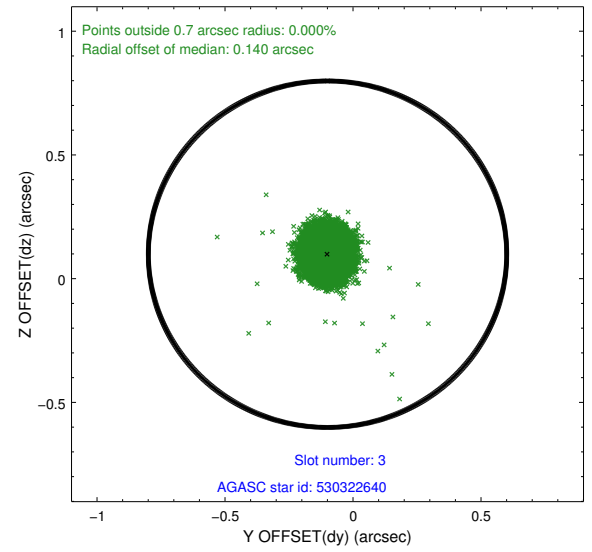
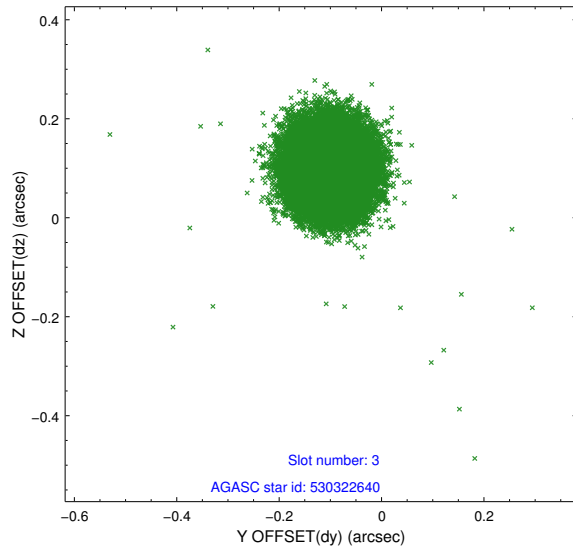
2.3 Aspect

Slot Statistics

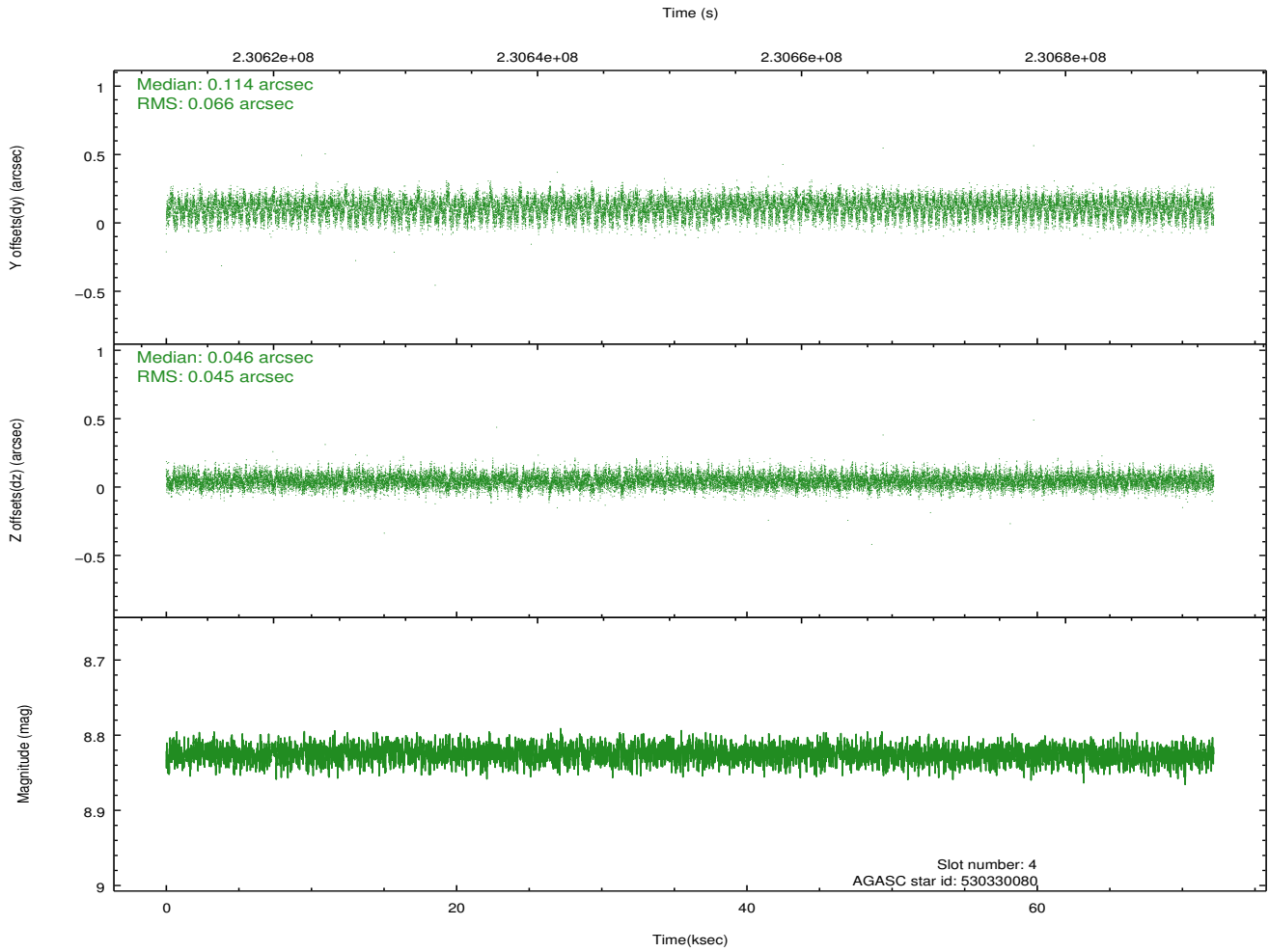
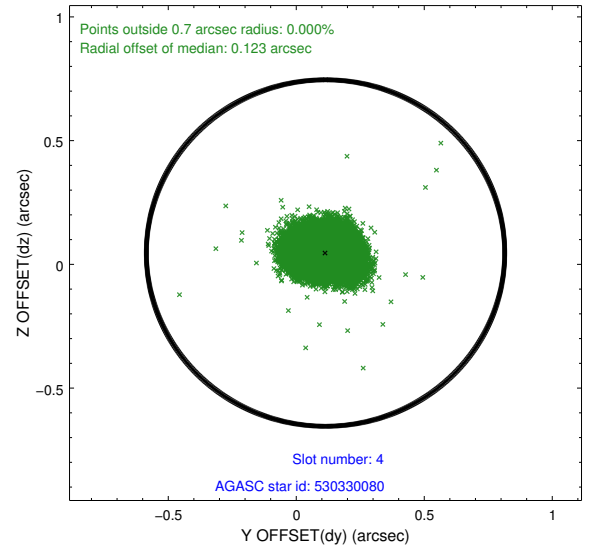
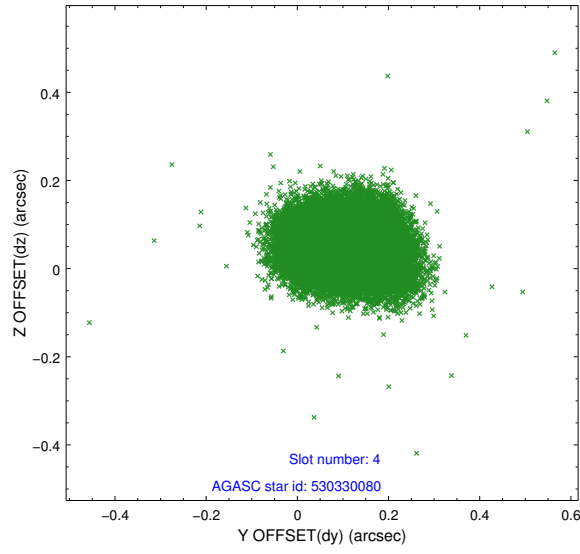
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	17601	-0.039	-0.010	0.014	0.058	0.000000	0.000000	933.50	-834.87
1	FID	ACIS-I-2	7.15	17601	-0.129	-0.034	0.012	0.028	0.000000	0.000000	-760.71	-841.32
2	FID	ACIS-I-4	7.17	17602	0.069	0.111	0.011	0.046	0.000000	0.000000	2153.50	1065.09
3	GUIDE	530322640	8.91	35188	-0.100	0.099	0.063	0.102	35.878914	61.773652	-1382.59	-488.58
4	GUIDE	530330080	8.83	35187	0.114	0.046	0.085	0.137	37.987862	61.612207	2262.97	-575.08
5	GUIDE	530331872	8.29	35195	0.025	-0.062	0.069	0.111	37.713971	61.177762	2030.62	-2192.34
6	GUIDE	530852736	7.84	35150	-0.064	-0.025	0.062	0.103	37.086329	62.219010	435.12	1364.87
7	GUIDE	530862272	8.85	35193	0.020	-0.058	0.085	0.136	36.216069	62.475924	-1128.73	2090.40

2.4 Star Slots

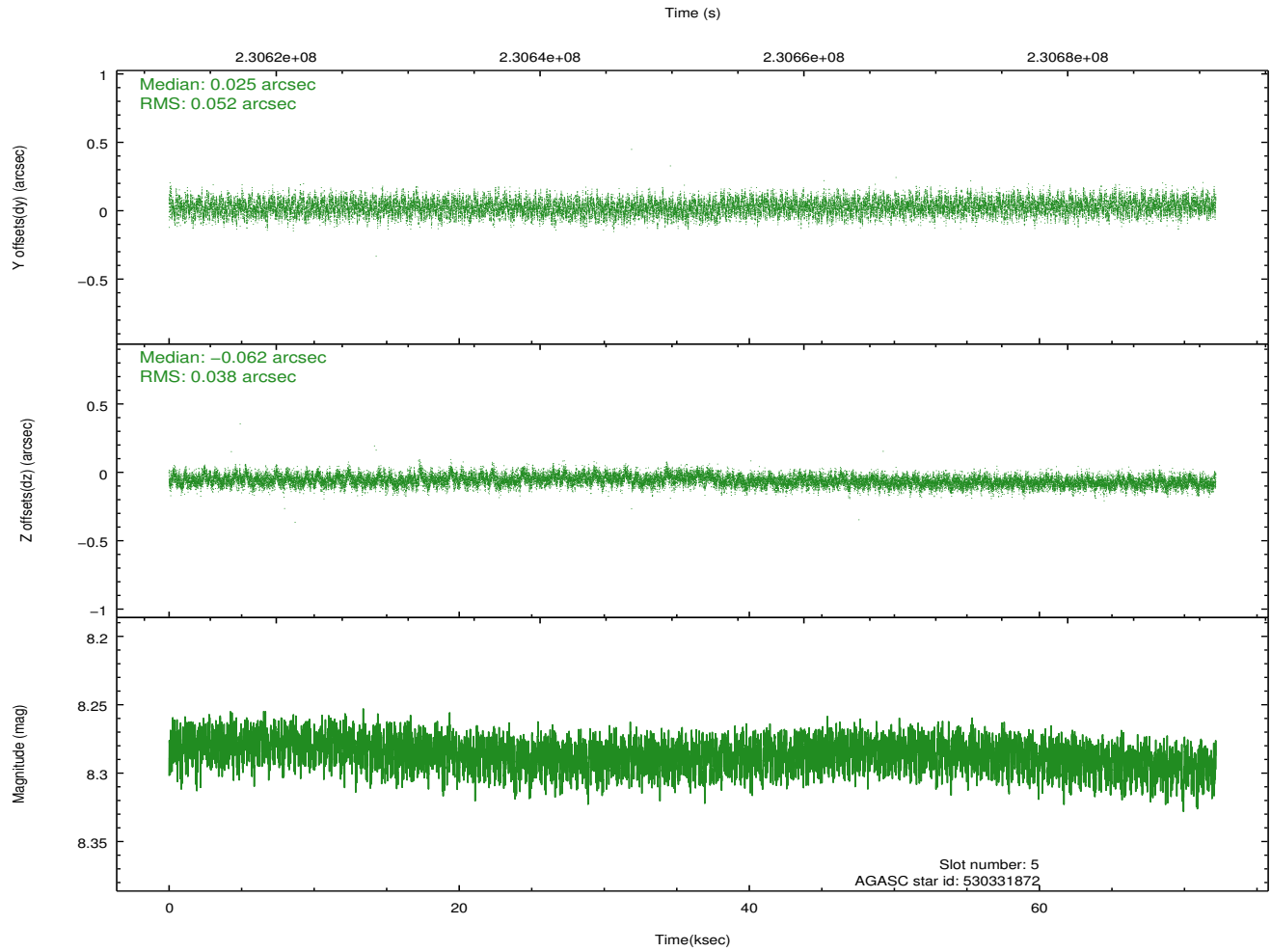
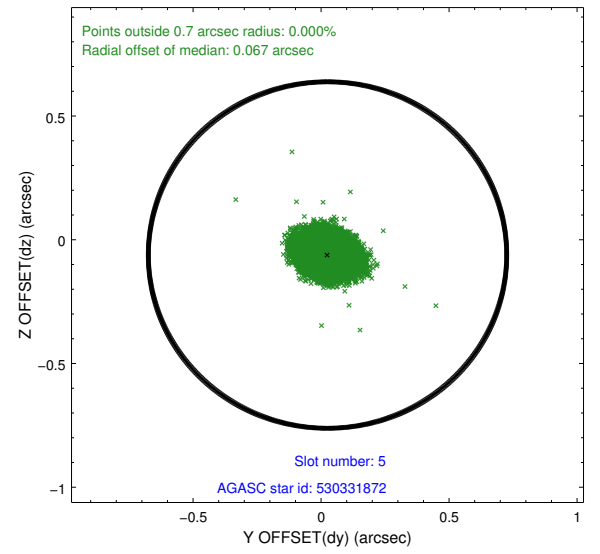
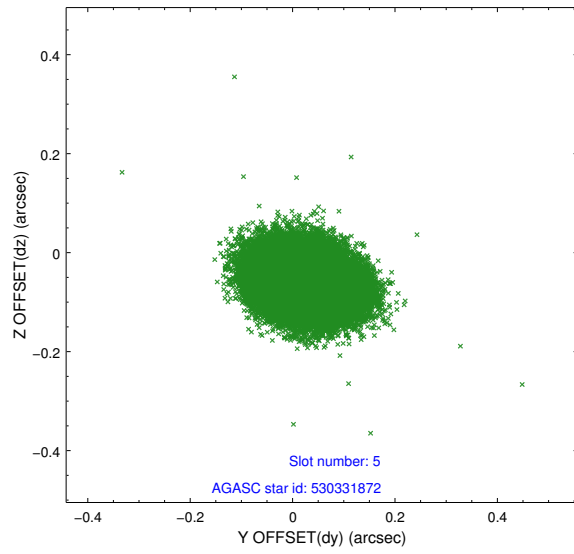
2.4.1 Slot 3



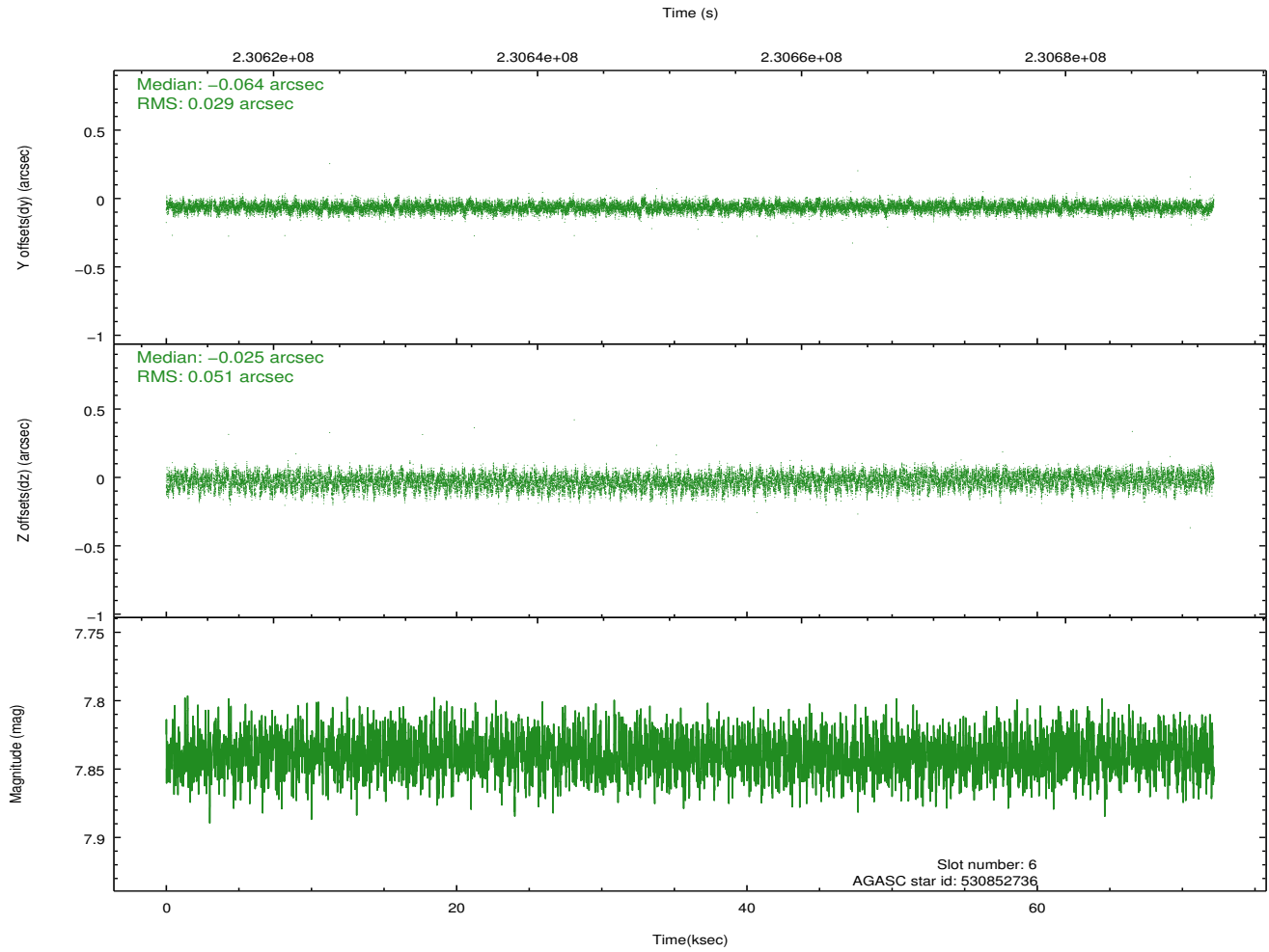
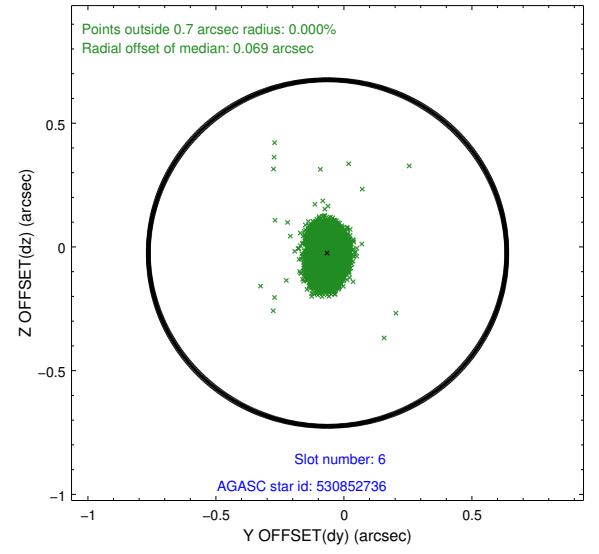
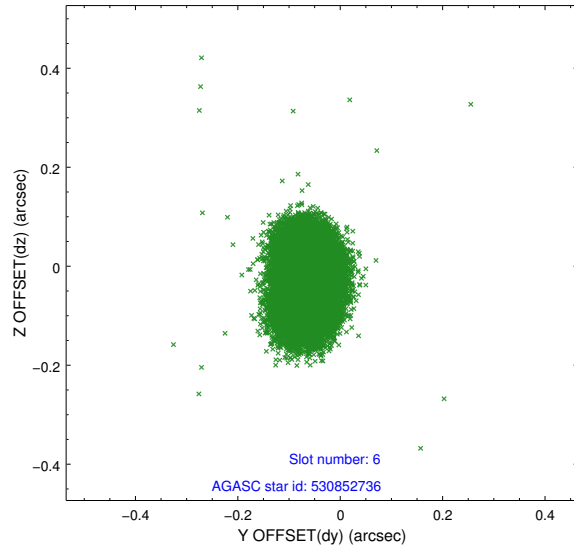
2.4.2 Slot 4



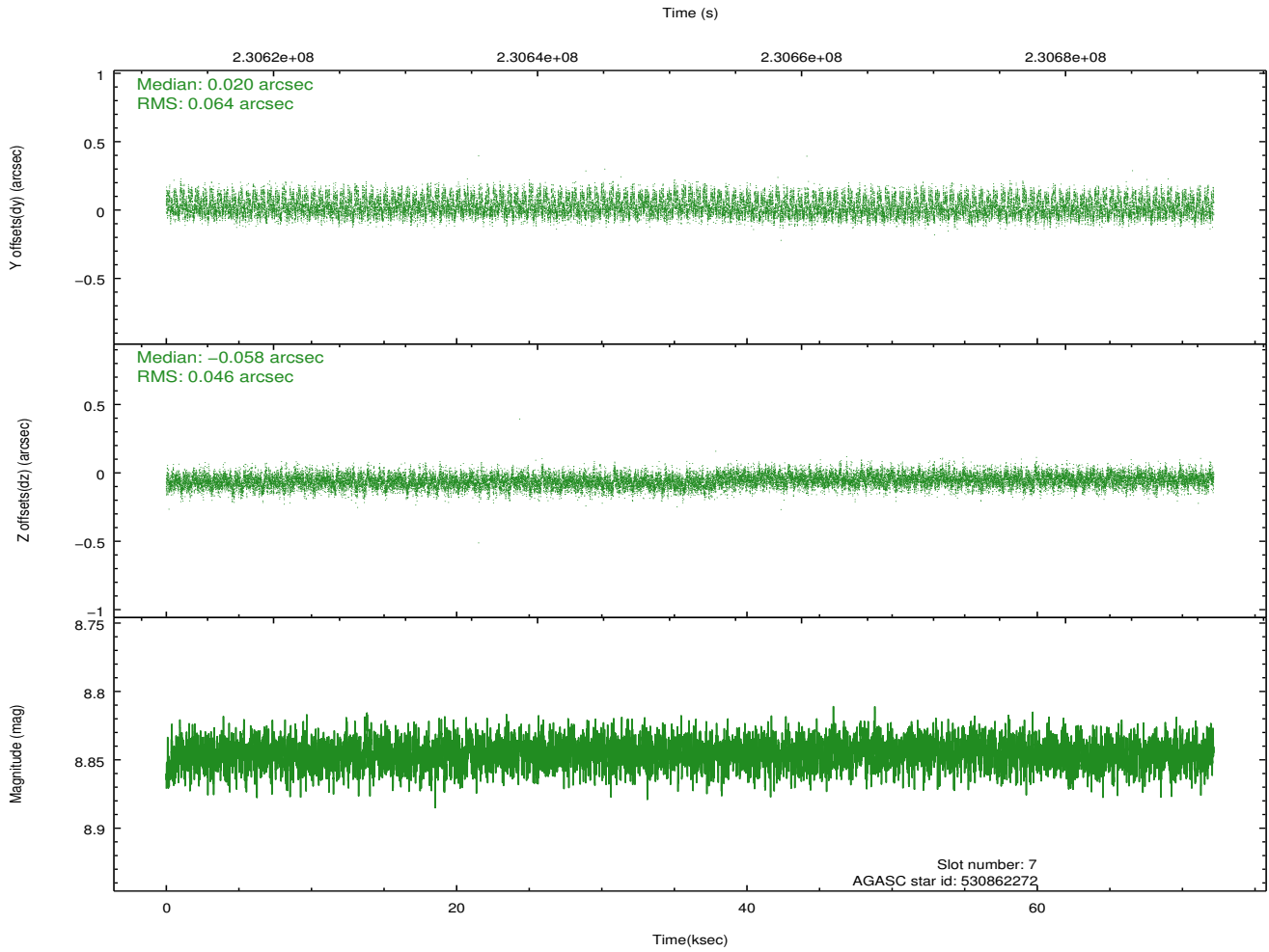
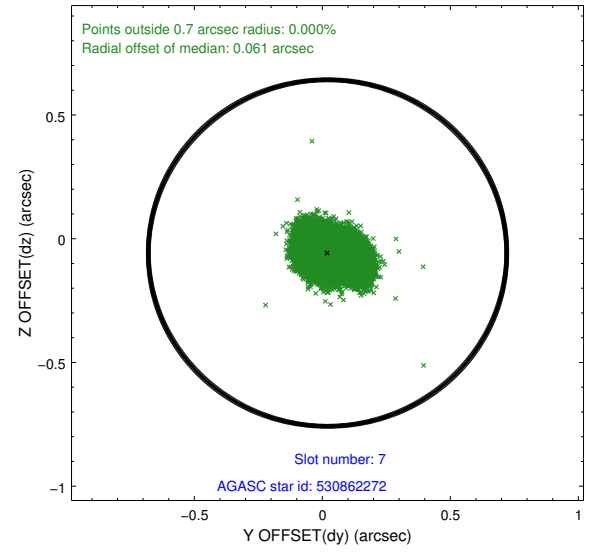
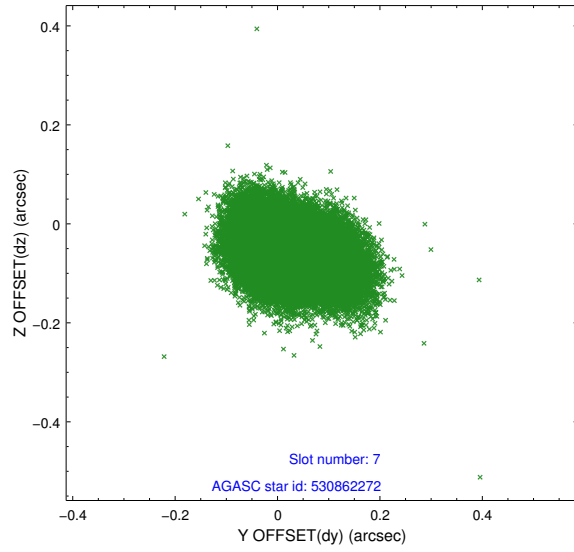
2.4.3 Slot 5



2.4.4 Slot 6

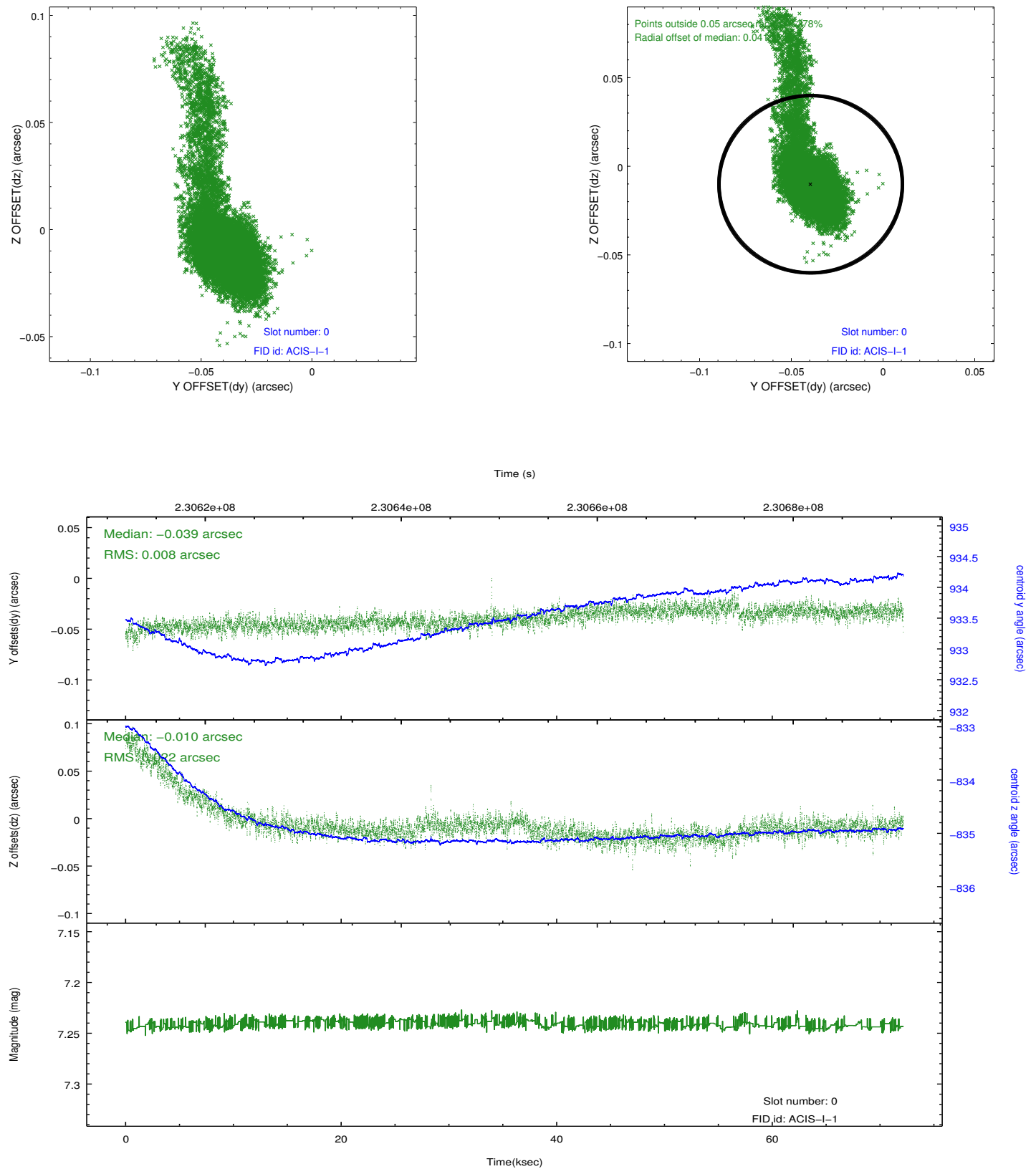


2.4.5 Slot 7

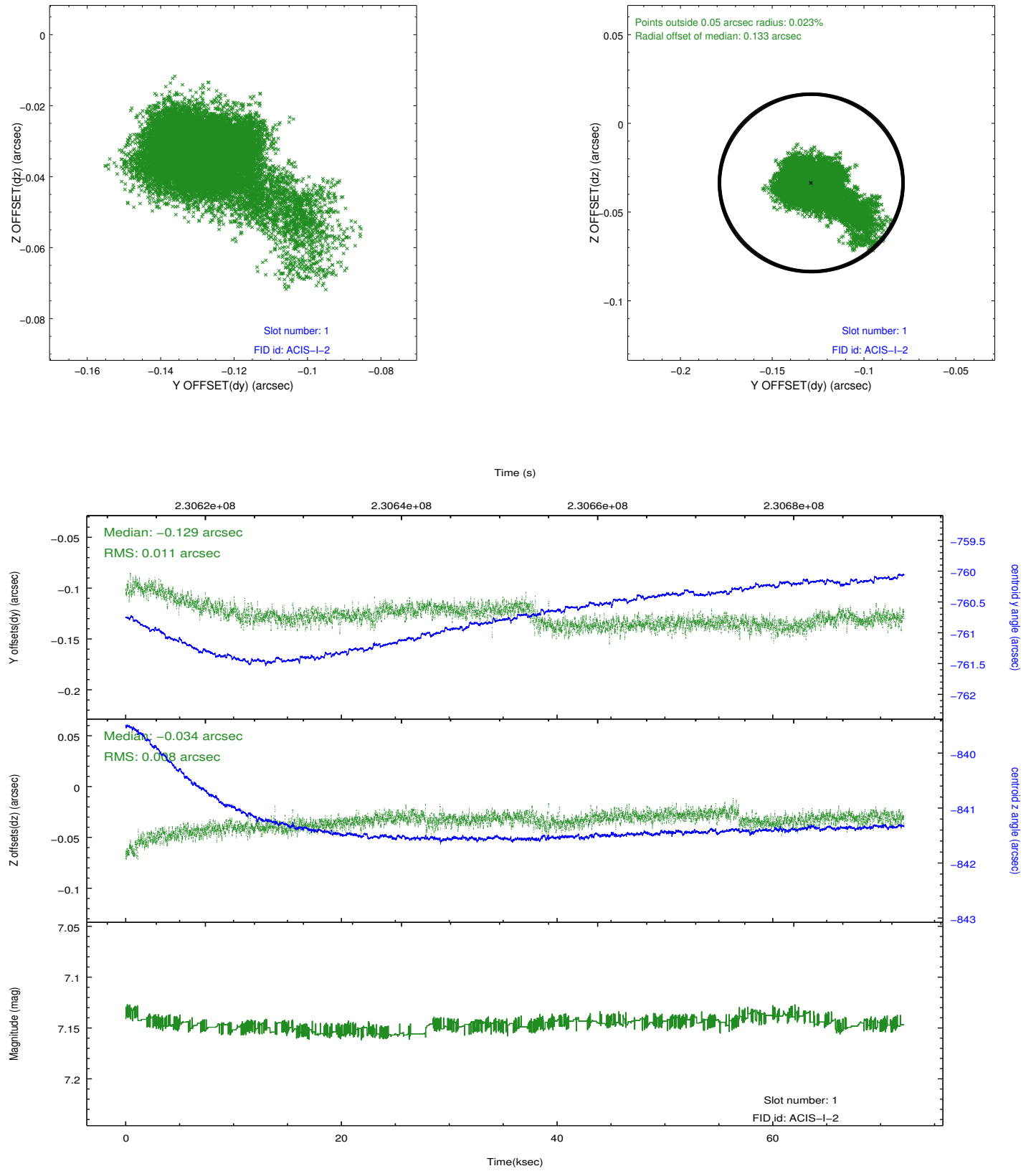


2.5 FID Slots

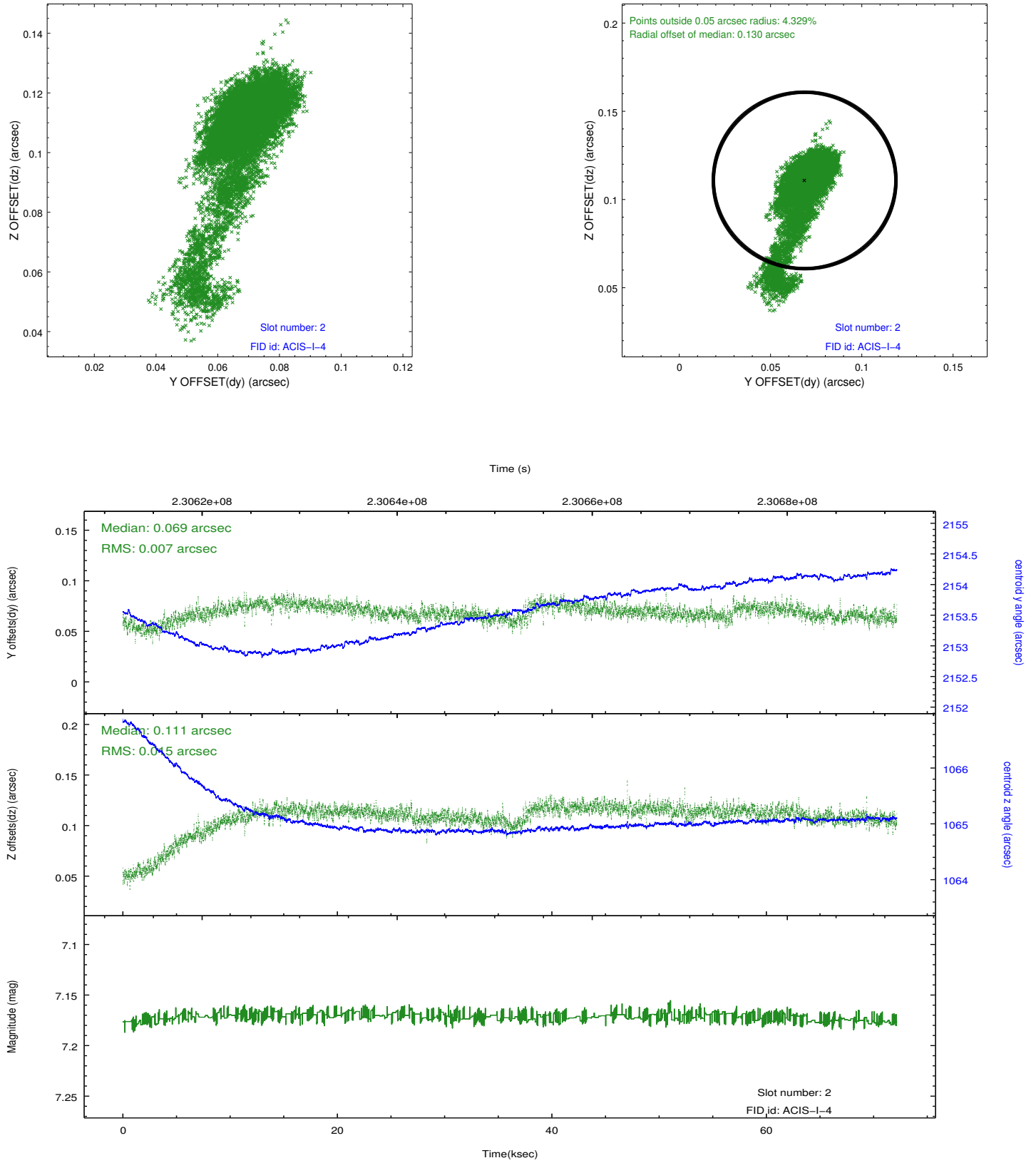
2.5.1 Slot 0



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)	2013.01.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	72.15671

A.2 Comments

Joint proposal with XMM.