

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8679 - L2 Version 3
Chandra X-Ray Center

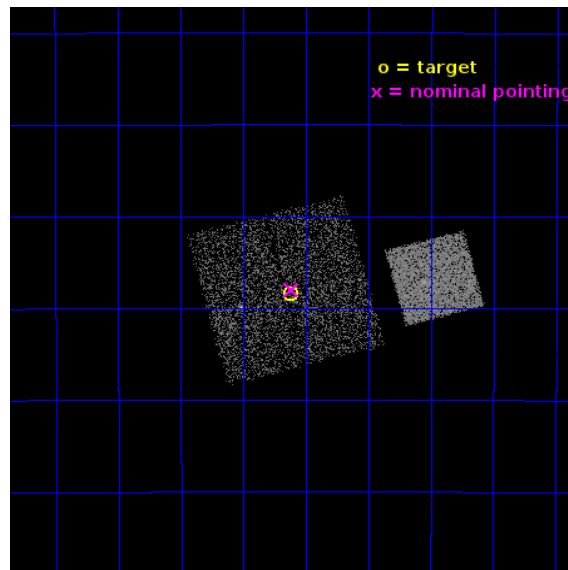
L2 Processing Date : Jul 17 2015

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

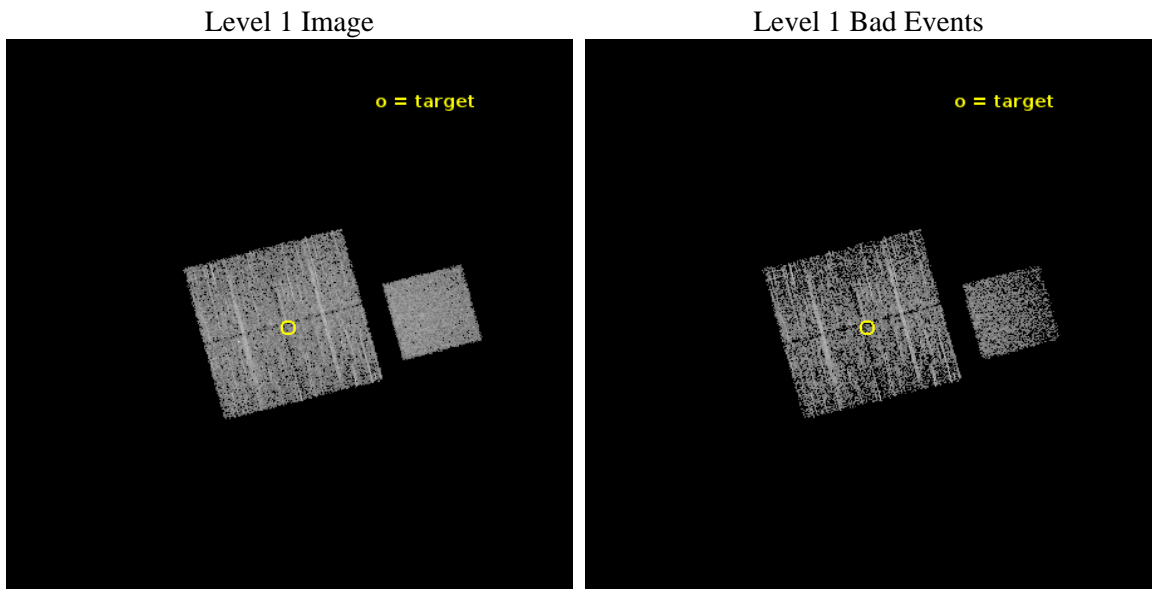
seq_num	400730	Sequence number
obs_id	8679	Observation id
title	The Galactic Bulge Survey: categorising the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	Prof Mariano Mendez	Principal investigator
object	GBSGTO4	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	264.77941	Observer's specified target RA [deg]
dec_targ	-29.140968	Observer's specified target Dec [deg]
ra_nom	264.77898064237	Nominal RA [deg]
dec_nom	-29.132995285712	Nominal Dec [deg]
roll_nom	75.208488035639	Nominal Roll [deg]
revision	3	Processing version of data
ontime	2184.987511158	Sum of GTIs [s]
livetime	2156.4390407603	Livetime [s]
ontime0	2184.987511158	Sum of GTIs [s]
ontime1	2184.987511158	Sum of GTIs [s]
ontime2	2184.987511158	Sum of GTIs [s]
ontime3	2184.987511158	Sum of GTIs [s]
ontime7	2184.987511158	Sum of GTIs [s]
l2events	15953	Number of level 2 events



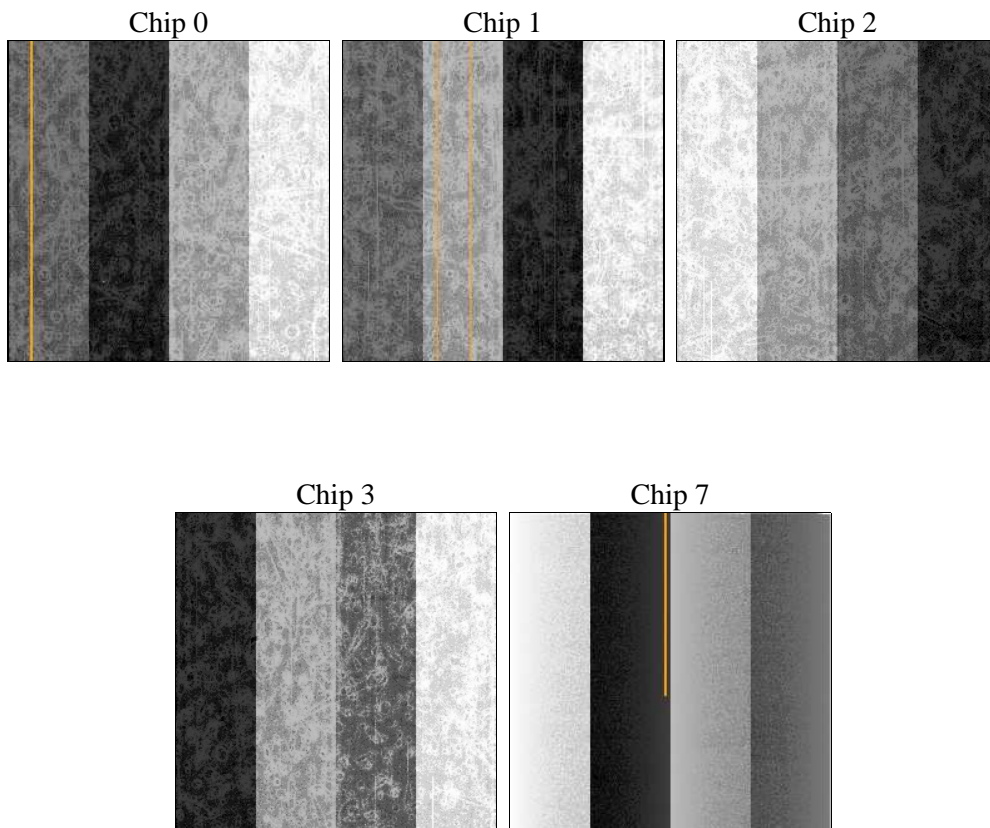
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.1	Processing system revision	ontime	2184.987511158	Sum of GTIs [s]
caldsver	4.6.8	 	ontime0	2184.987511158	Sum of GTIs [s]
date	2015-07-17T17:26:35	Date and time of file creation	ontime1	2184.987511158	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	2184.987511158	Sum of GTIs [s]
			ontime3	2184.987511158	Sum of GTIs [s]
			ontime7	2184.987511158	Sum of GTIs [s]
			l1events	102056	Number of level 1 events

2.1.4 Events

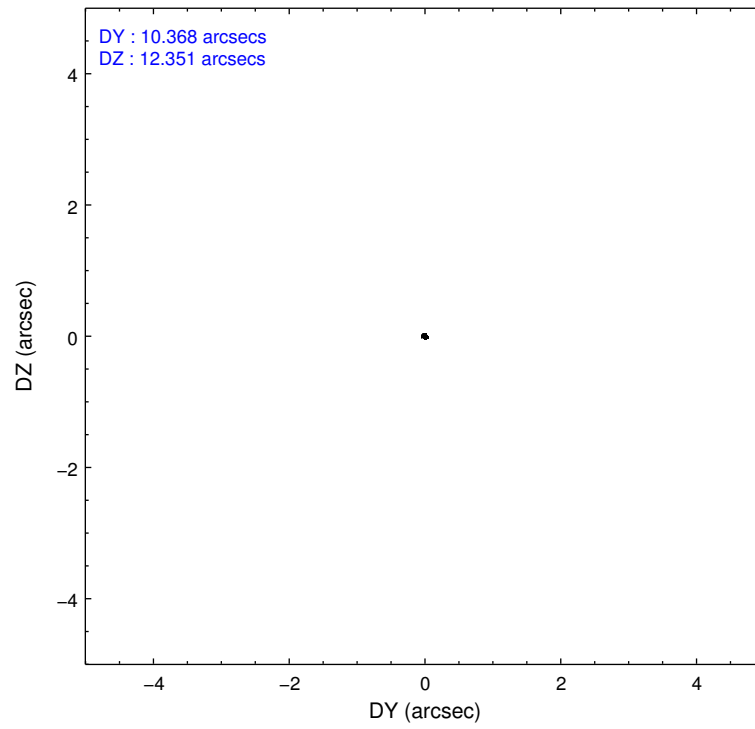
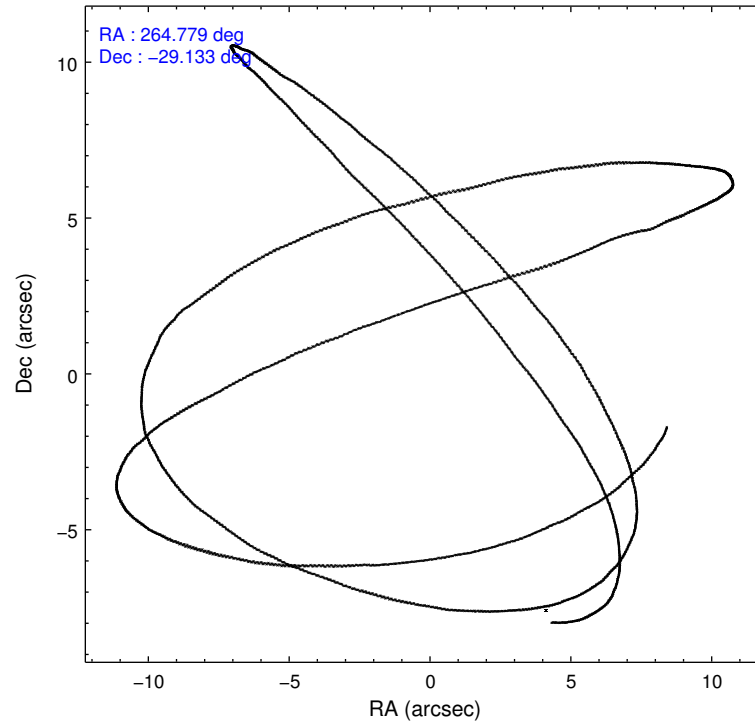
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	18986	19337	20924	19730	23079
rejected events	17059	16909	19031	17798	13794
rejected %	89%	87%	90%	90%	59%

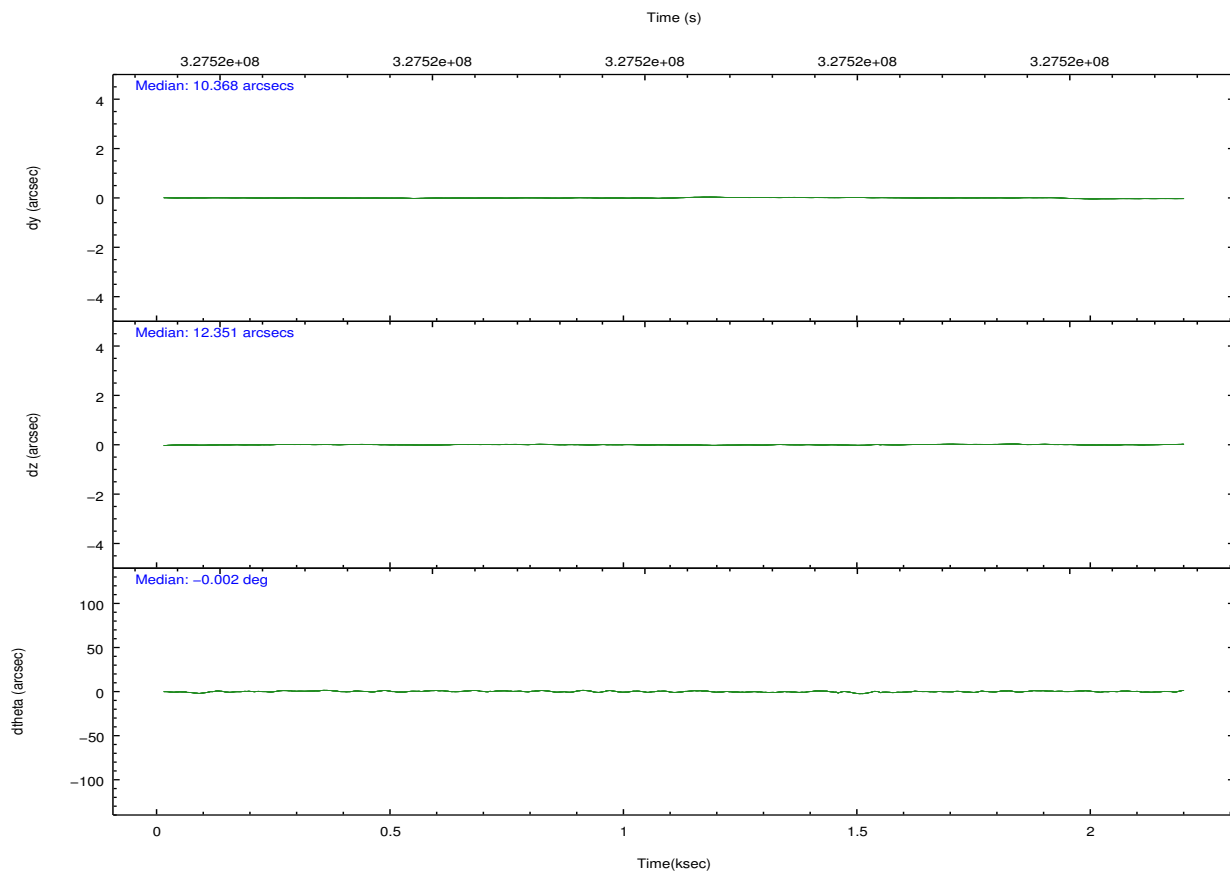
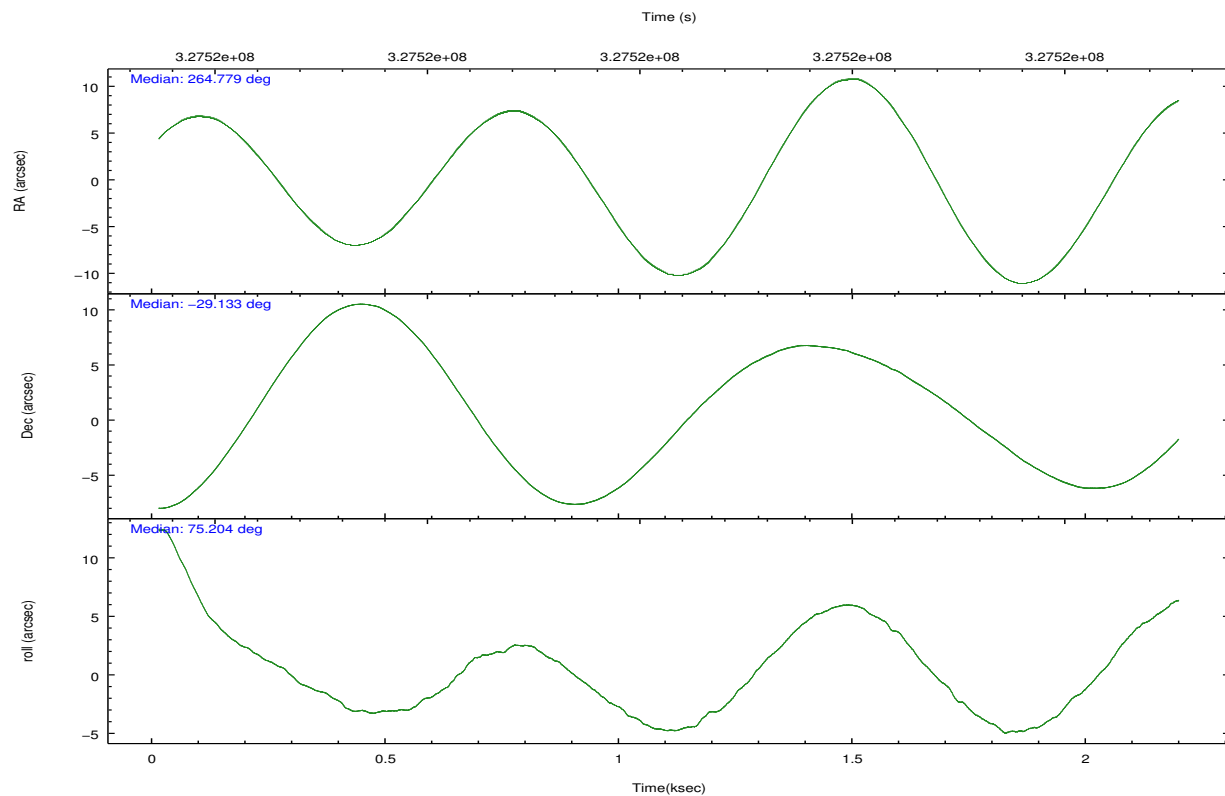
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	879	1284	881	898	1118
	4%	6%	4%	4%	4%
grade 1 events	10	15	13	11	29
	0%	0%	0%	0%	0%
grade 2 events	499	545	495	460	2208
	2%	2%	2%	2%	9%
grade 3 events	246	267	223	254	960
	1%	1%	1%	1%	4%
grade 4 events	230	254	214	181	978
	1%	1%	1%	0%	4%
grade 5 events	690	737	679	788	2366
	3%	3%	3%	3%	10%
grade 6 events	373	436	376	423	5539
	1%	2%	1%	2%	24%
grade 7 events	16059	15799	18043	16715	9881
	84%	81%	86%	84%	42%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01237	ACIS-01237	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	264.787384	264.7789806423676	CCD I2 on	Y	Y
[deg] Pointing Dec	-29.159403	-29.13299528571215	CCD I3 on	Y	Y
[deg] Pointing Roll	75.003885	75.20848803563914	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	N	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	327522663.184000	327522287.71059	CCD S5 on	N	N
Observation start date	2008-05-18T18:29:58	2008-05-18T18:24:47	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	327524663.184000	327524797.93571	On-chip summing requested	N	N
Observation end date	2008-05-18T19:03:18	2008-05-18T19:06:37	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



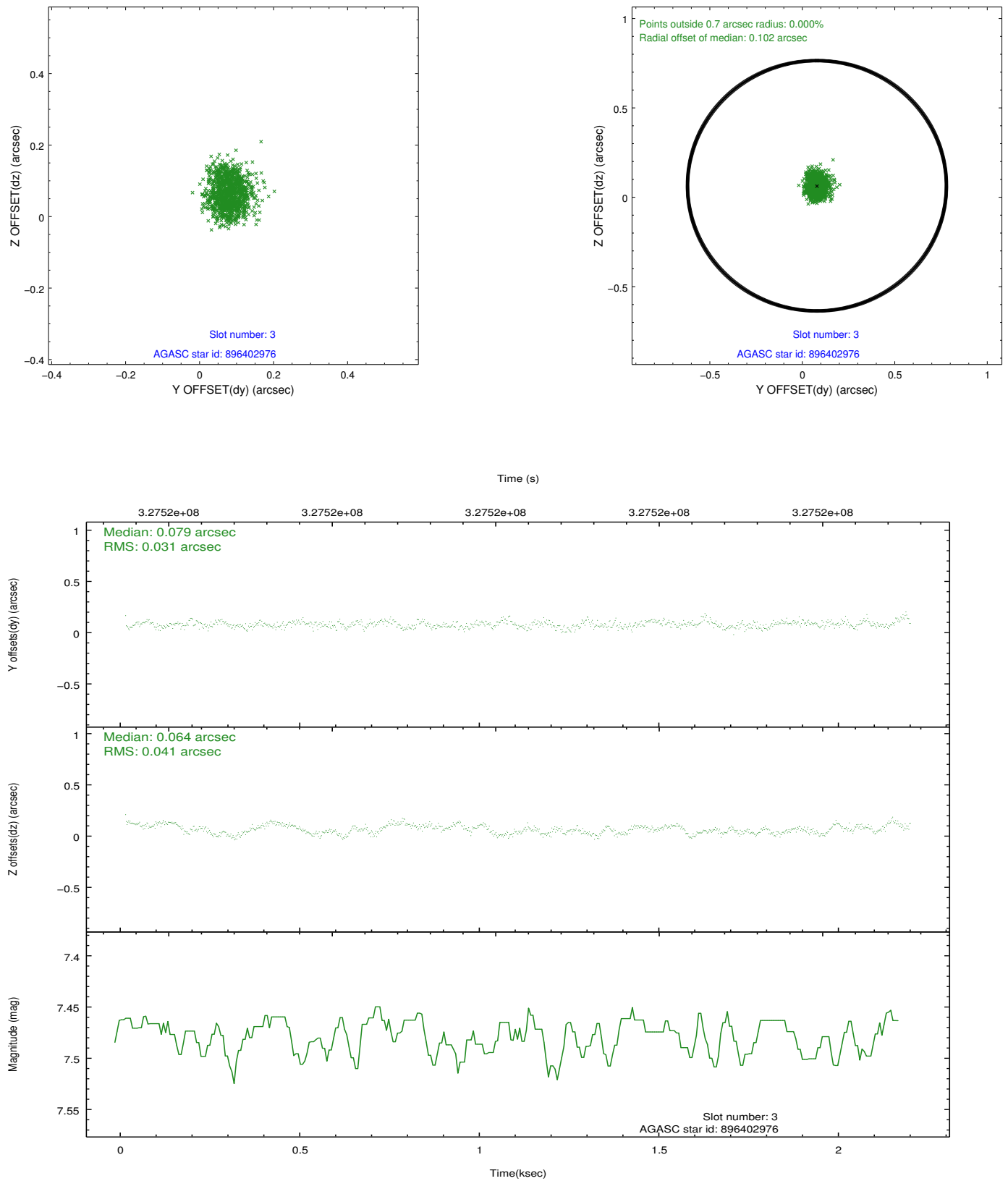


Slot Statistics

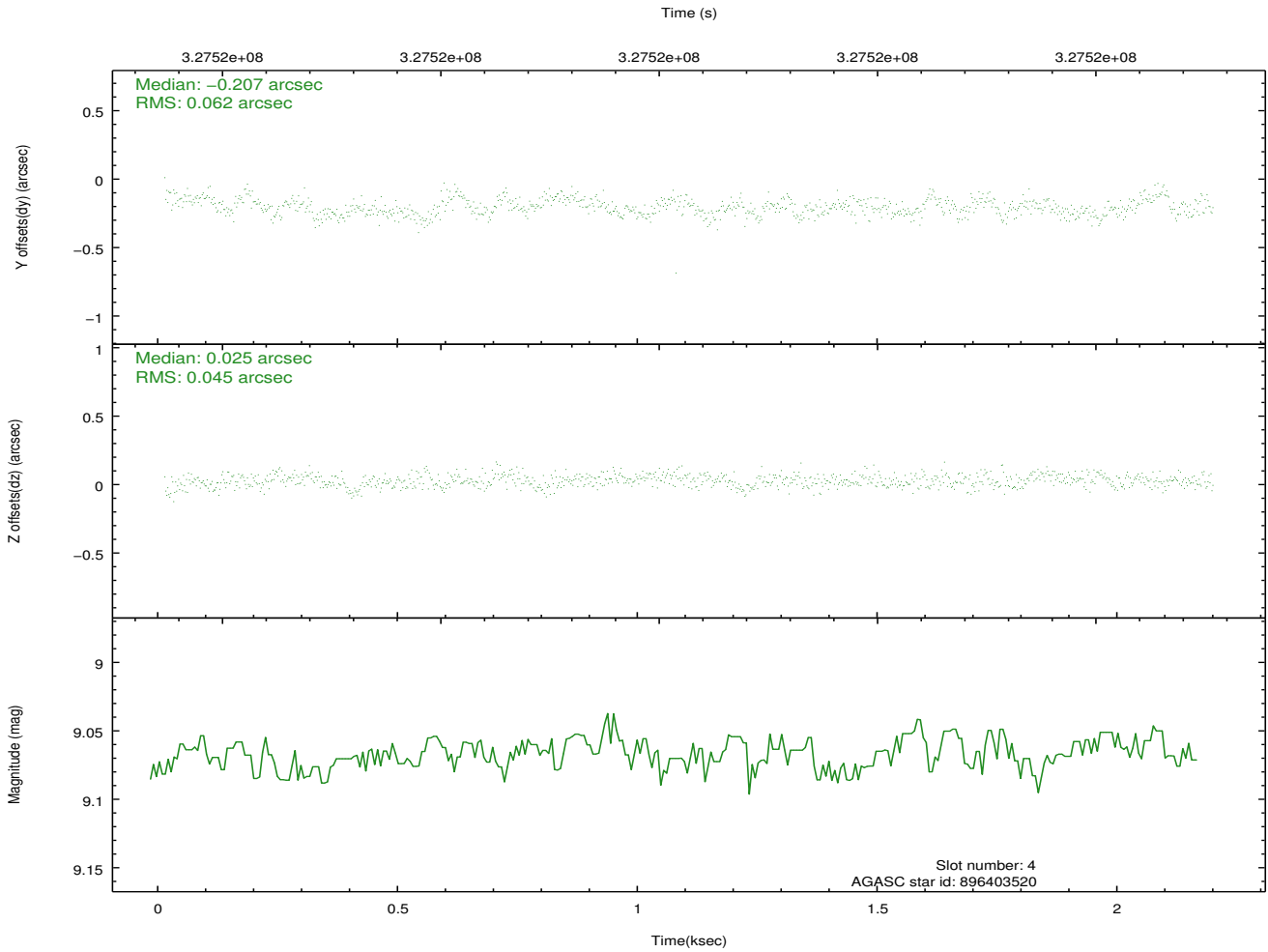
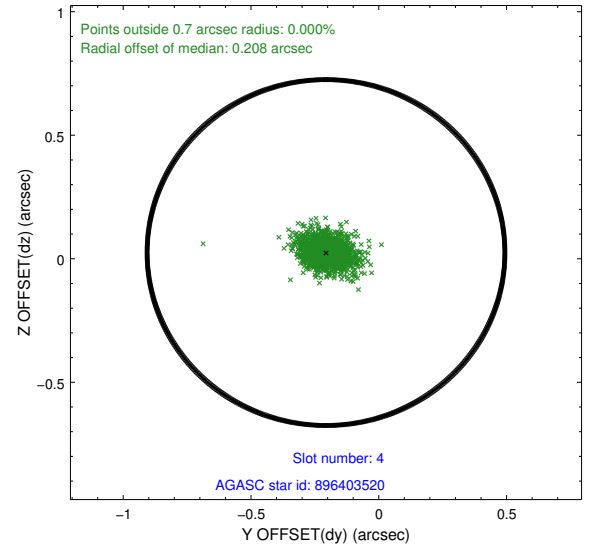
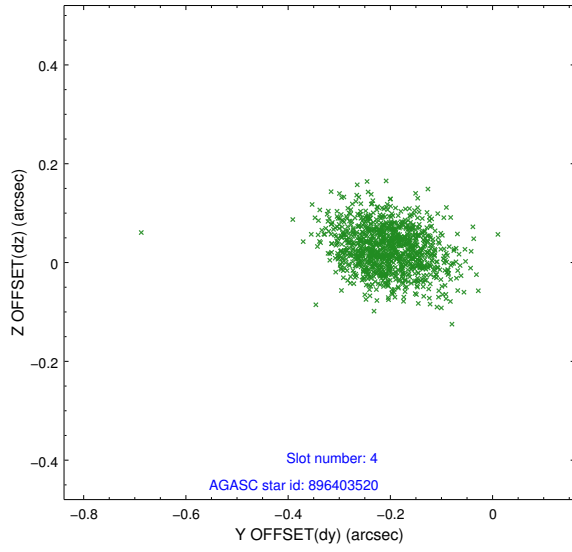
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-2	6.96	533	-0.079	-0.092	0.008	0.015	0.000000	0.000000	-765.03	-842.34
1	FID		ACIS-I-4	6.99	533	0.105	0.074	0.006	0.011	0.000000	0.000000	2147.85	1062.50
2	FID		ACIS-I-5	7.03	533	-0.128	0.087	0.009	0.016	0.000000	0.000000	-1815.08	1063.75
3	GUIDE	used	896402976	7.48	1066	0.079	0.064	0.056	0.085	265.099474	-28.923203	1075.29	-729.99
4	GUIDE	used	896403520	9.07	1067	-0.207	0.025	0.079	0.134	265.626481	-28.748780	2105.74	-2178.63
5	GUIDE	used	896404376	6.67	1067	-0.025	0.028	0.059	0.087	264.835179	-29.530972	-1250.80	-492.77
6	GUIDE	used	896405480	8.23	1065	0.225	-0.019	0.064	0.100	265.220460	-29.599691	-1182.94	-1720.75
7	GUIDE	used	896406568	8.23	1066	-0.076	-0.102	0.063	0.097	264.435951	-28.437282	2220.96	1745.48

2.4 Star Slots

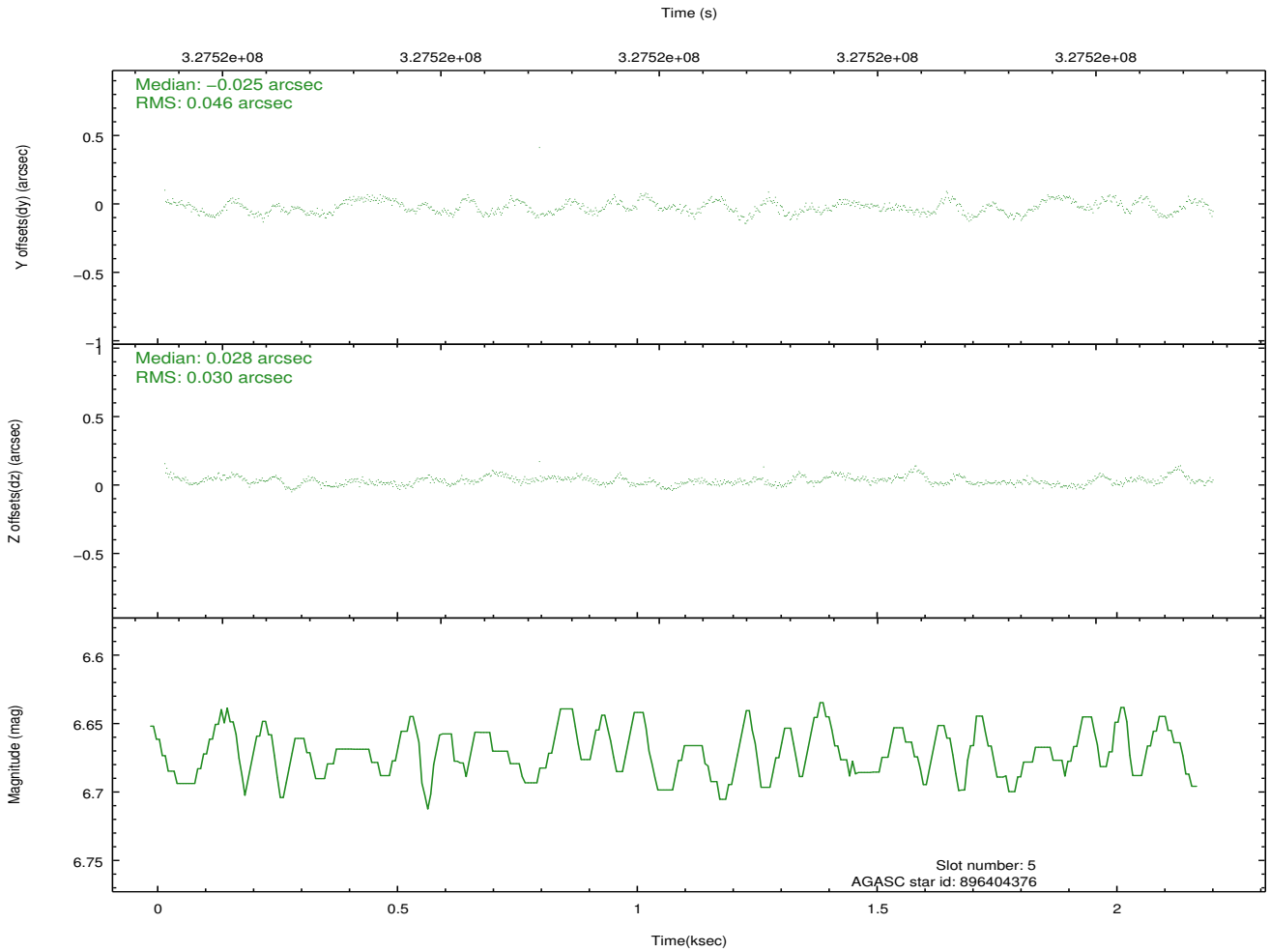
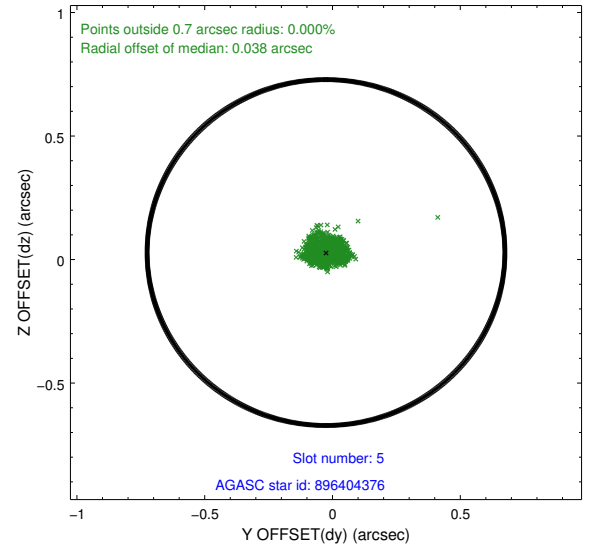
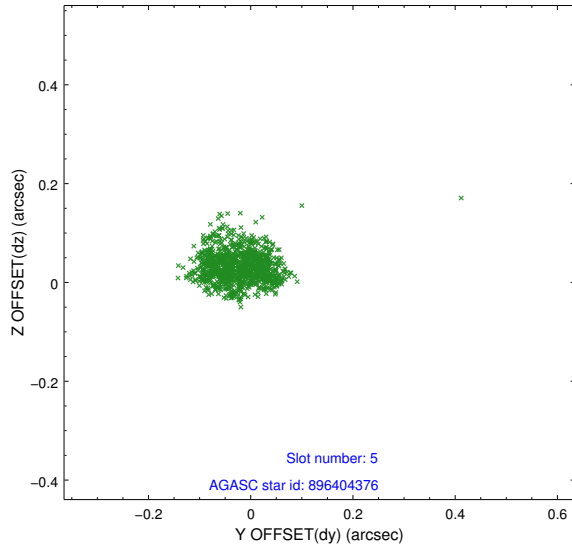
2.4.1 Slot 3



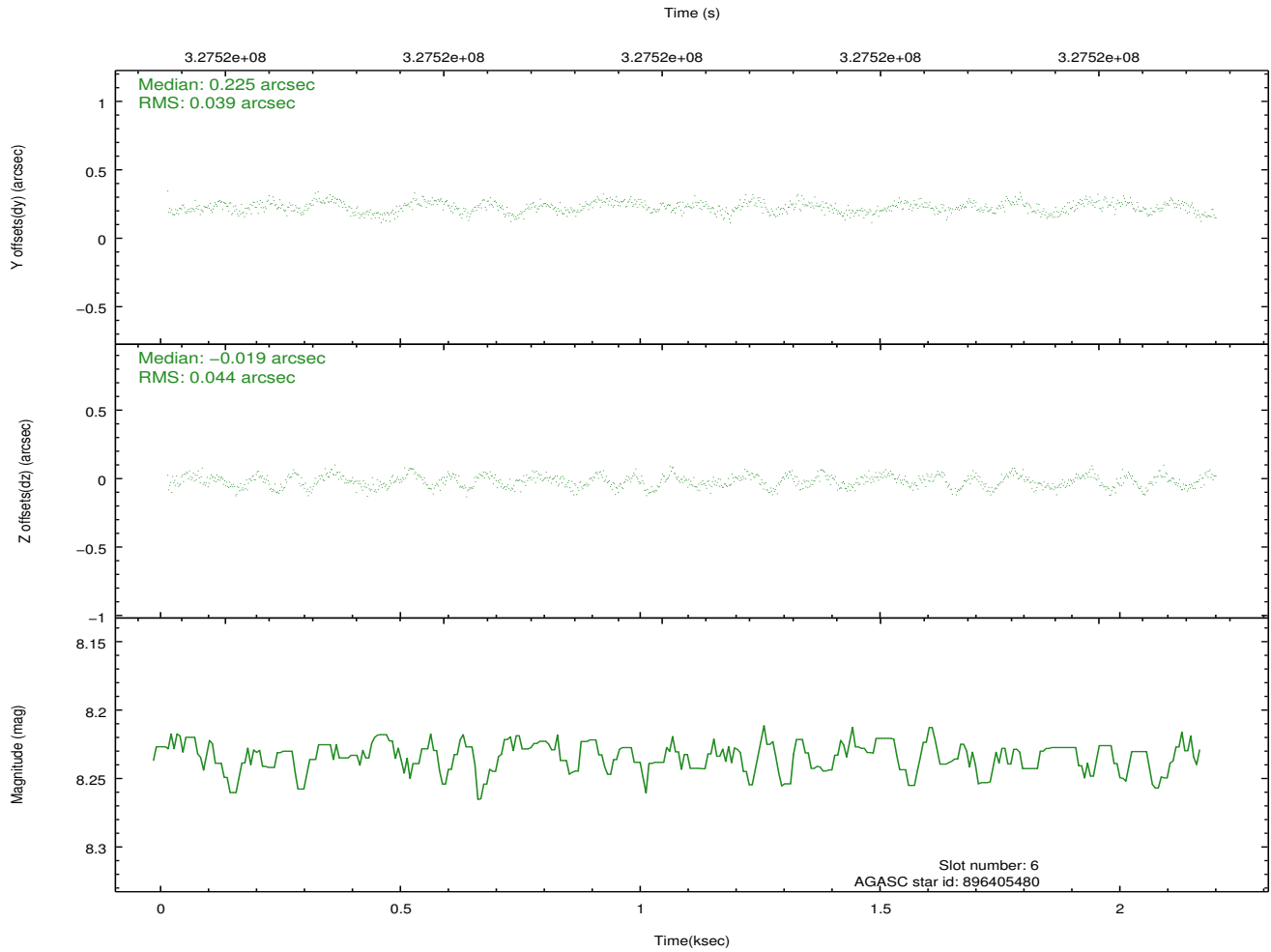
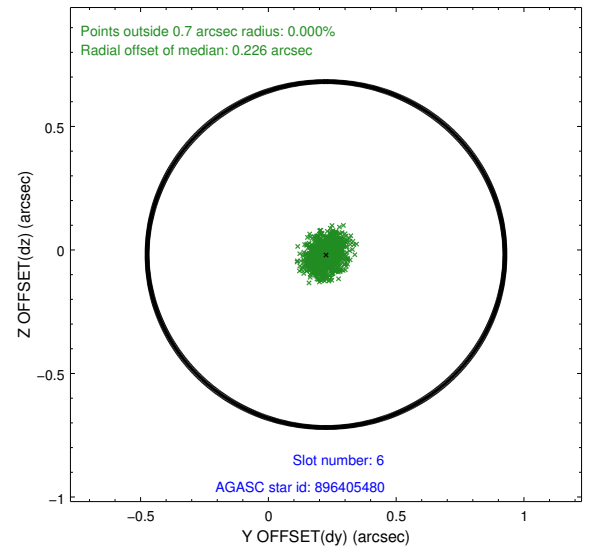
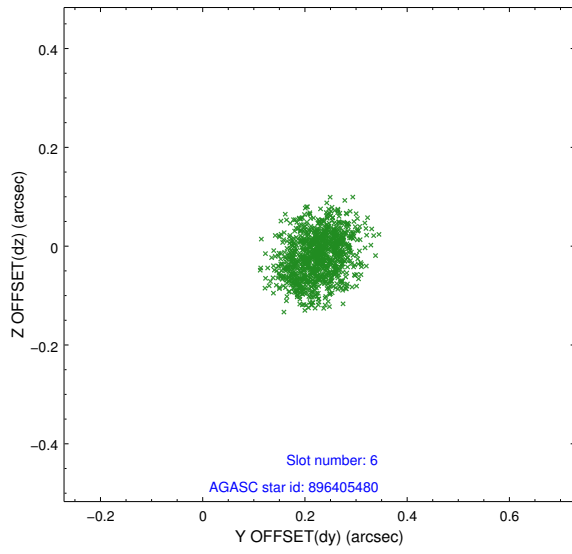
2.4.2 Slot 4



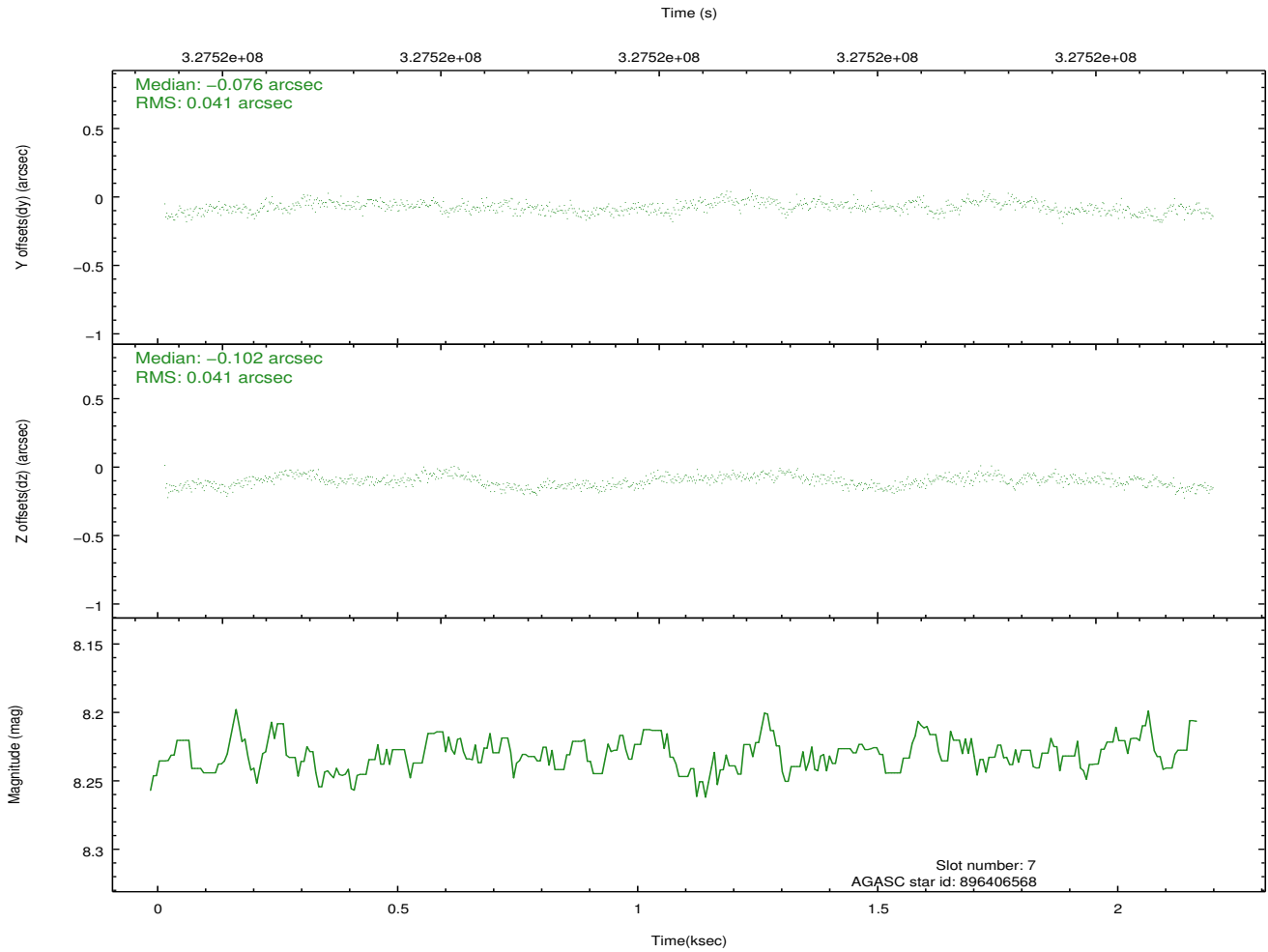
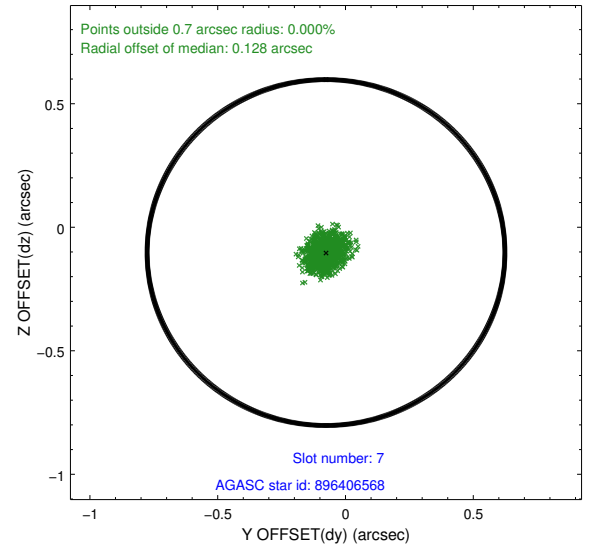
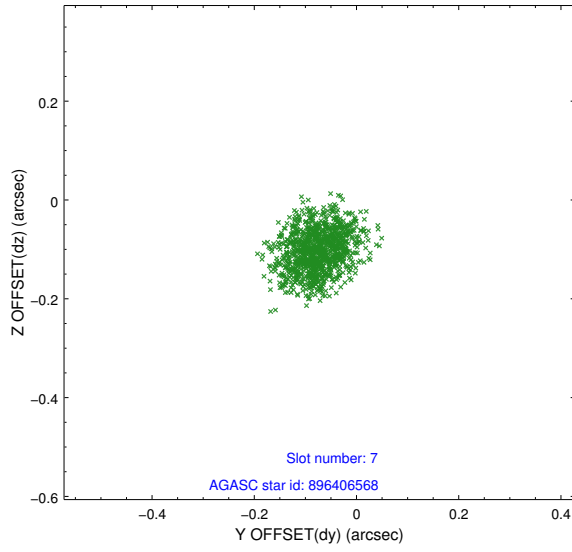
2.4.3 Slot 5



2.4.4 Slot 6

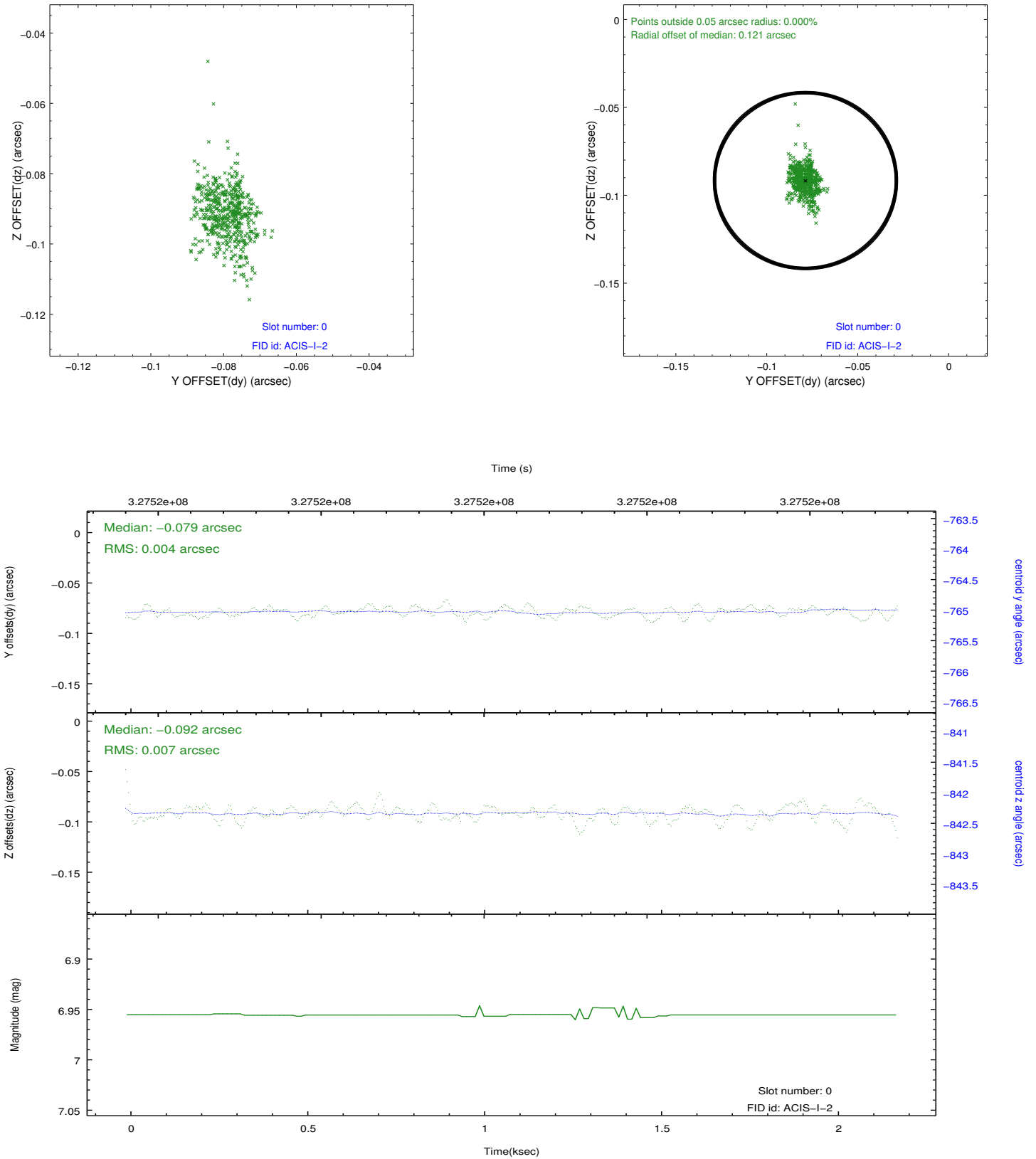


2.4.5 Slot 7

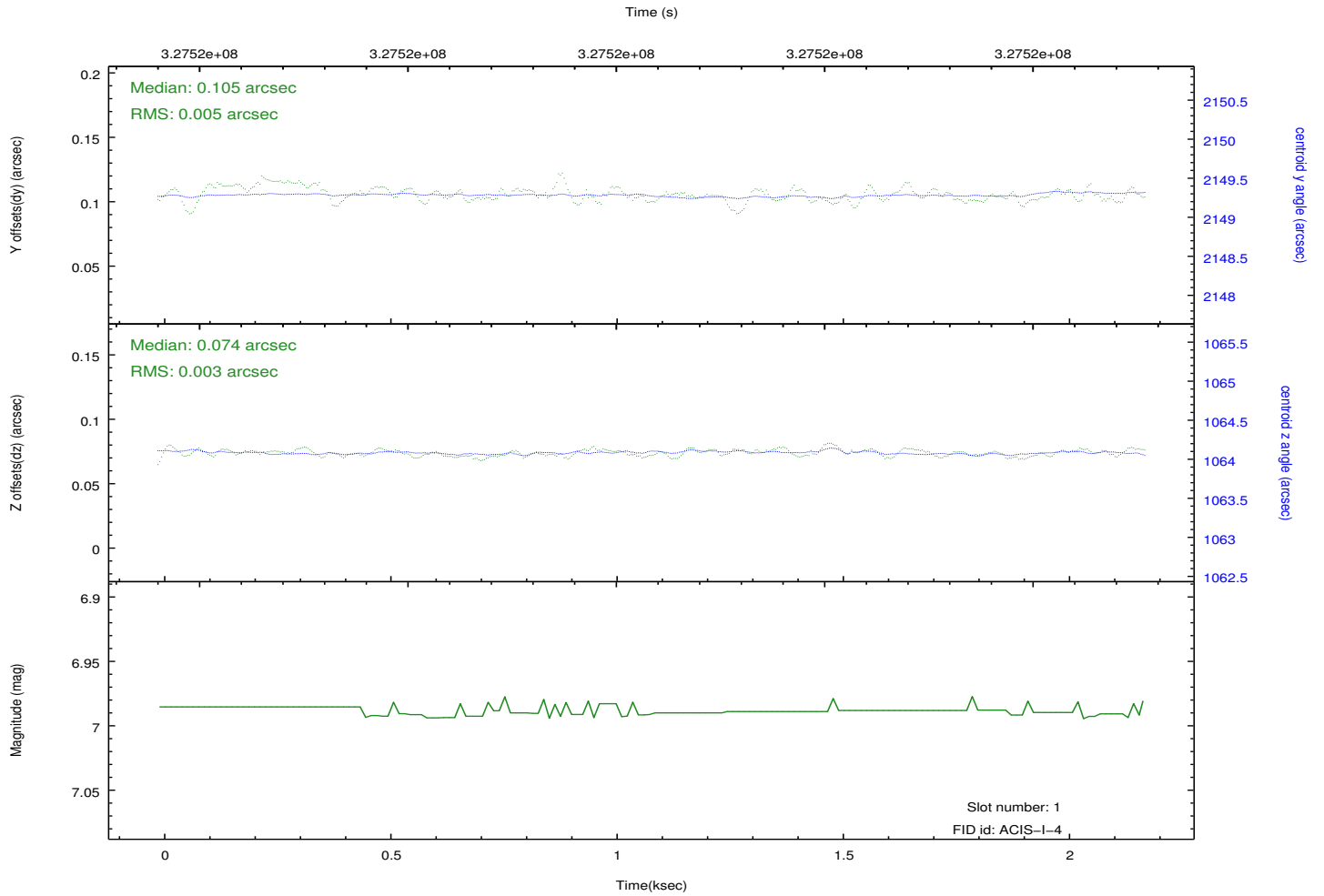
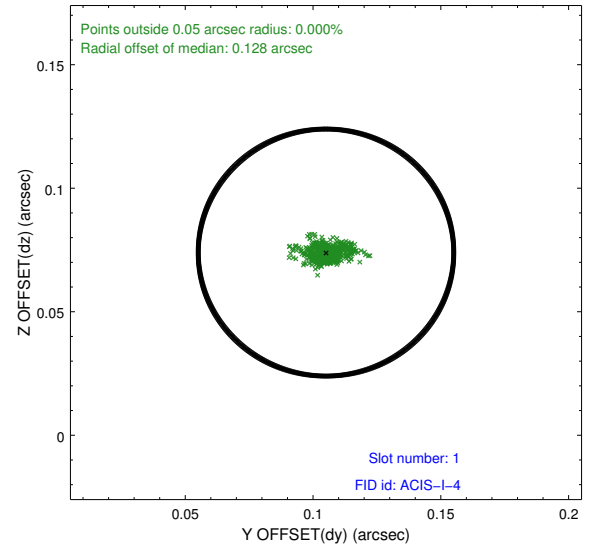
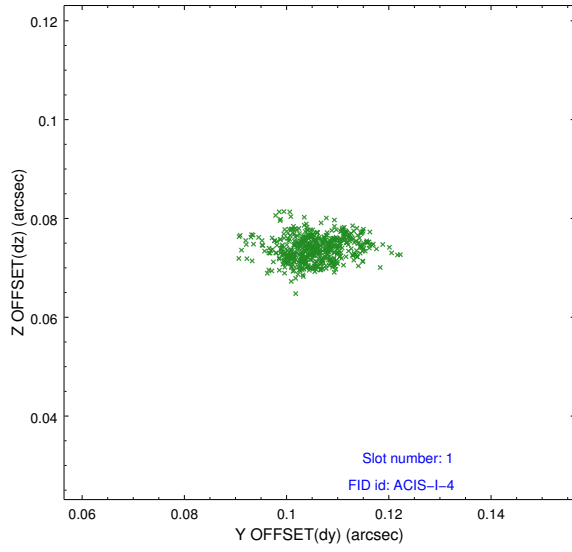


2.5 FID Slots

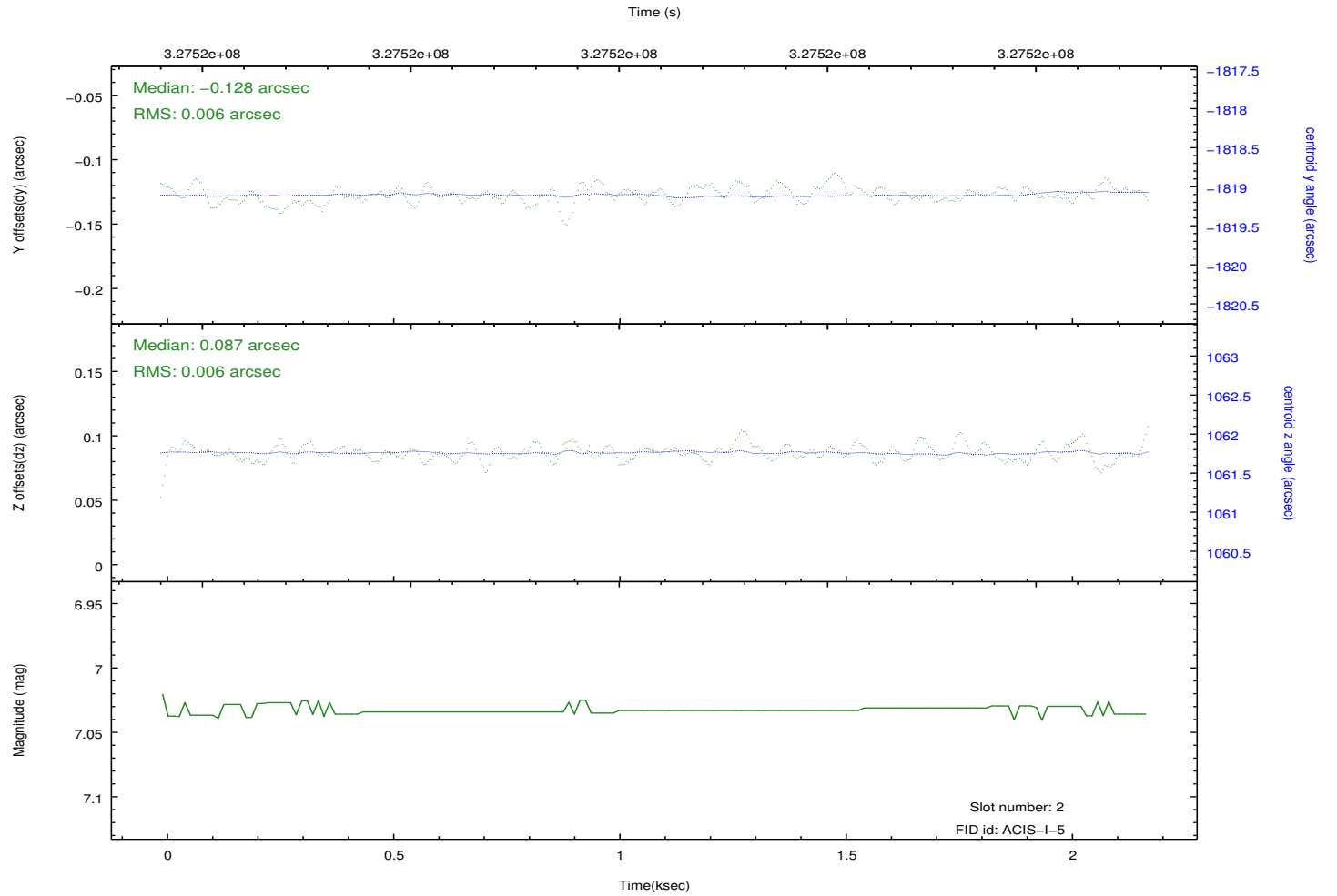
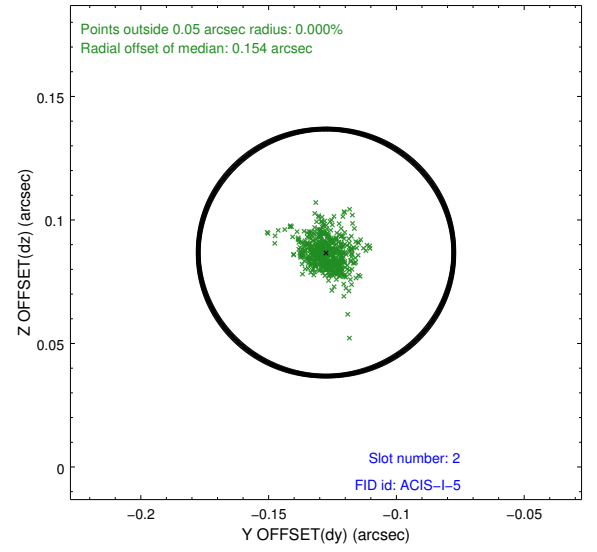
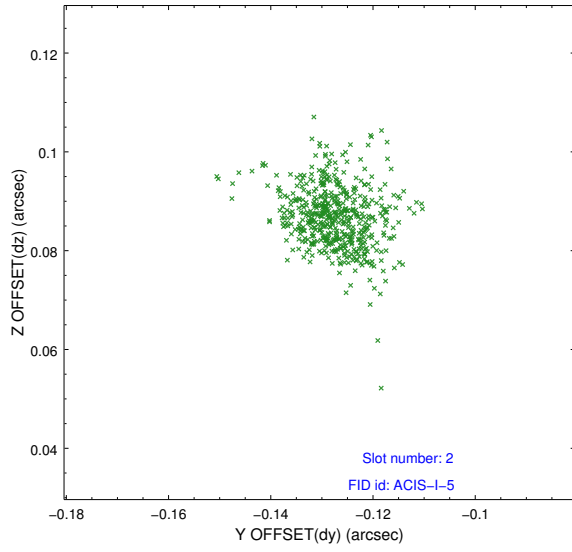
2.5.1 Slot 0



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)	2015.07.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.18550001

A.2 Comments

Because an aspect solution is determined in a finite time interval, a small number of events registered within the delta time before the first aspect solution do not have proper sky coordinates. We apply a manual workaround to exclude those events with incorrect sky positions until the complete s/w resolution is obtained.