

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8742 - L2 Version 3
Chandra X-Ray Center

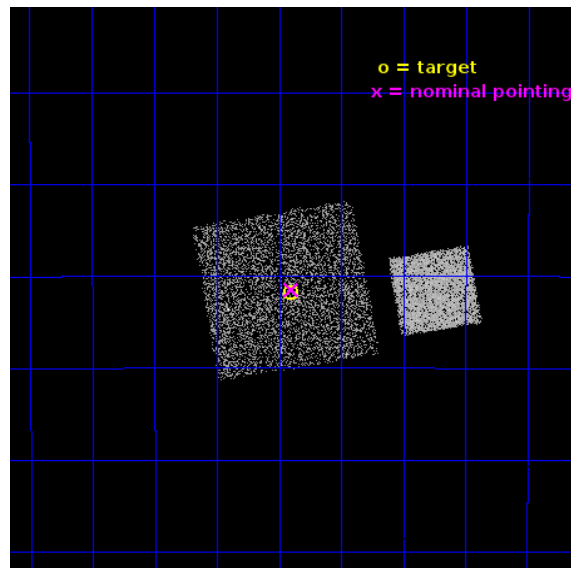
L2 Processing Date : Jul 20 2015

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1 Front

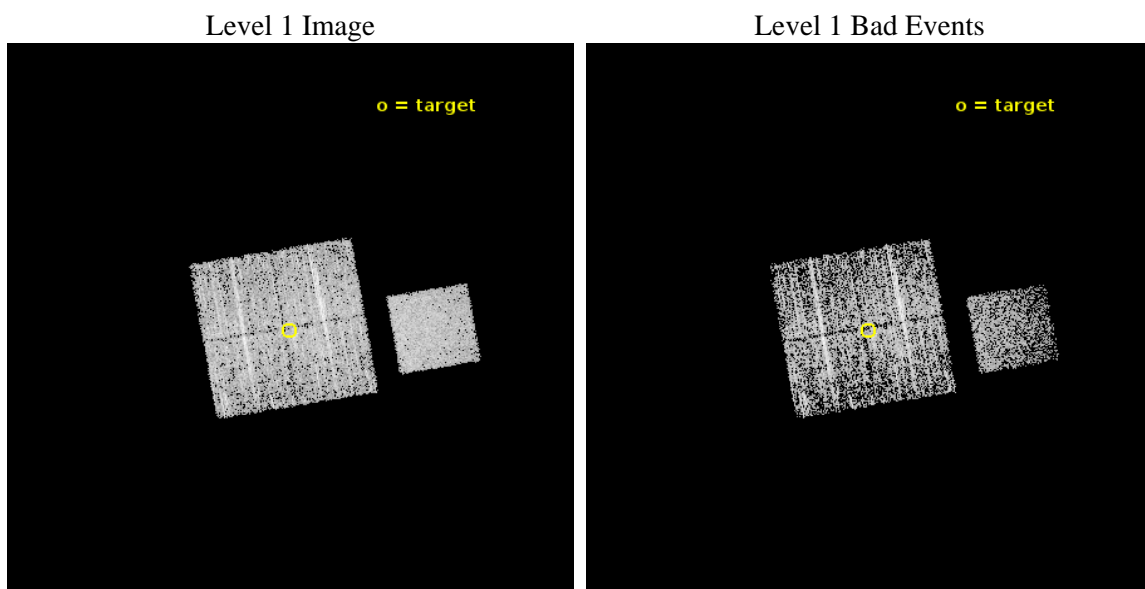
seq_num	400793	Sequence number
obs_id	8742	Observation id
title	The Galactic Bulge Survey: categorising the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	dr Peter Jonker	Principal investigator
object	GBS1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	267.352088	Observer's specified target RA [deg]
dec_targ	-29.696305	Observer's specified target Dec [deg]
ra_nom	267.35005987904	Nominal RA [deg]
dec_nom	-29.691634759625	Nominal Dec [deg]
roll_nom	80.207709437928	Nominal Roll [deg]
revision	3	Processing version of data
ontime	2175.7125107646	Sum of GTIs [s]
livetime	2147.2852250752	Livetime [s]
ontime0	2175.7125107646	Sum of GTIs [s]
ontime1	2172.5715005398	Sum of GTIs [s]
ontime2	2175.7125107646	Sum of GTIs [s]
ontime3	2175.7125107646	Sum of GTIs [s]
ontime7	2175.7125107646	Sum of GTIs [s]
l2events	16475	Number of level 2 events



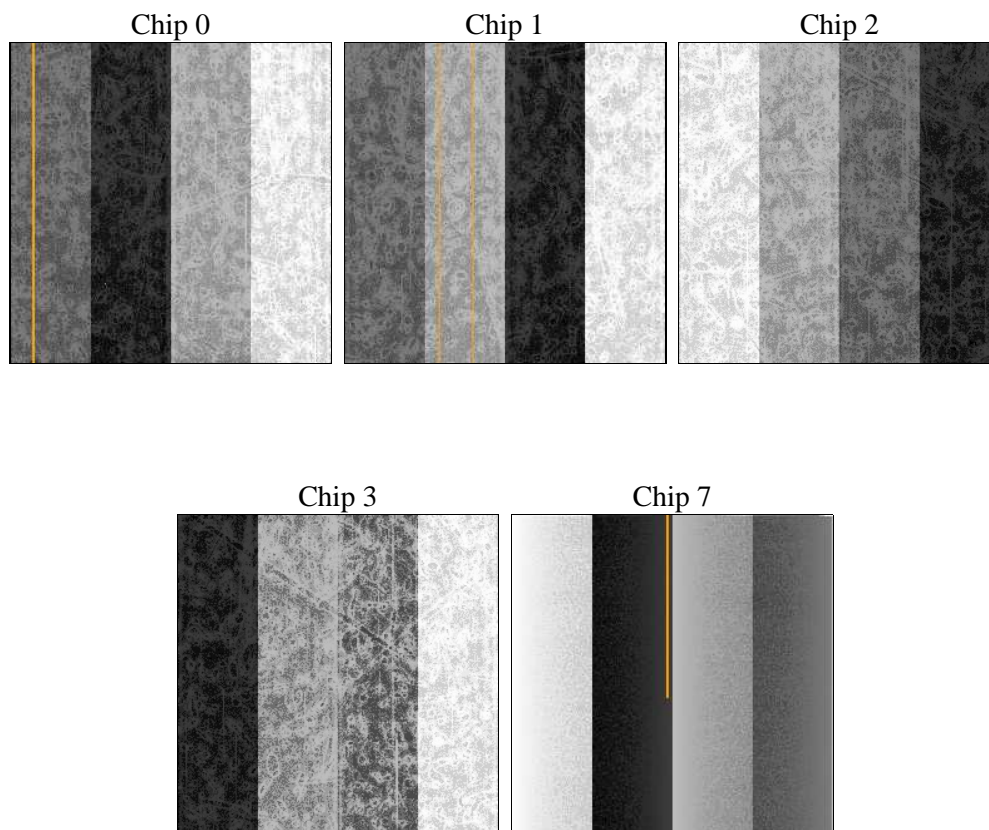
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.1	Processing system revision	ontime	2175.7125107646	Sum of GTIs [s]
caldbver	4.6.8	 	ontime0	2175.7125107646	Sum of GTIs [s]
date	2015-07-20T16:44:41	Date and time of file creation	ontime1	2172.5715005398	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	2175.7125107646	Sum of GTIs [s]
			ontime3	2175.7125107646	Sum of GTIs [s]
			ontime7	2175.7125107646	Sum of GTIs [s]
			l1events	98211	Number of level 1 events

2.1.4 Events

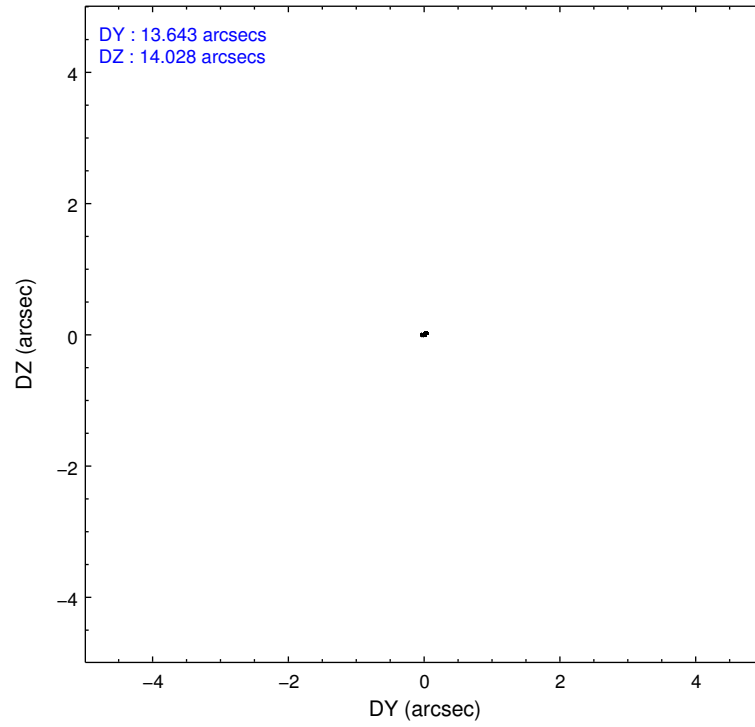
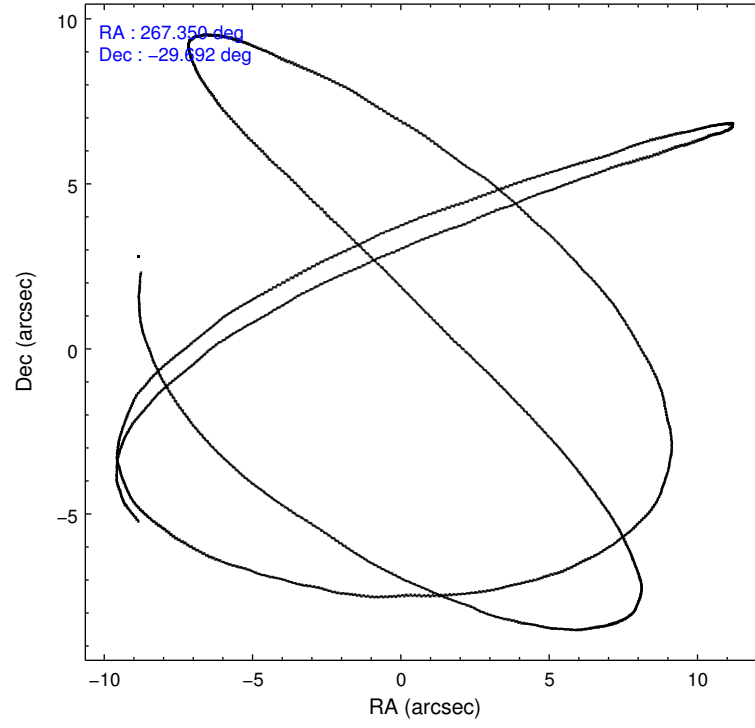
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	18373	18787	20317	19246	21488
rejected events	16060	16372	18131	17235	12271
rejected %	87%	87%	89%	89%	57%

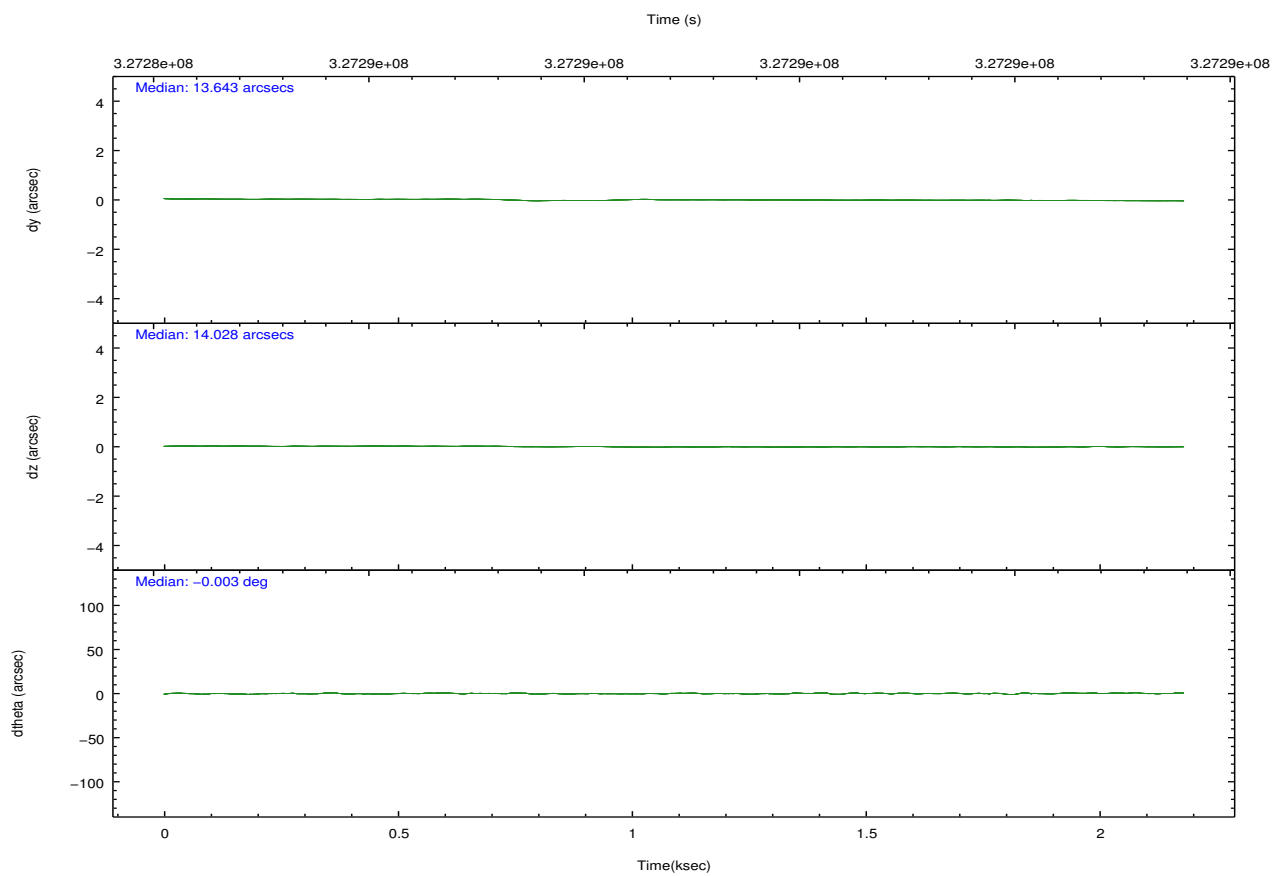
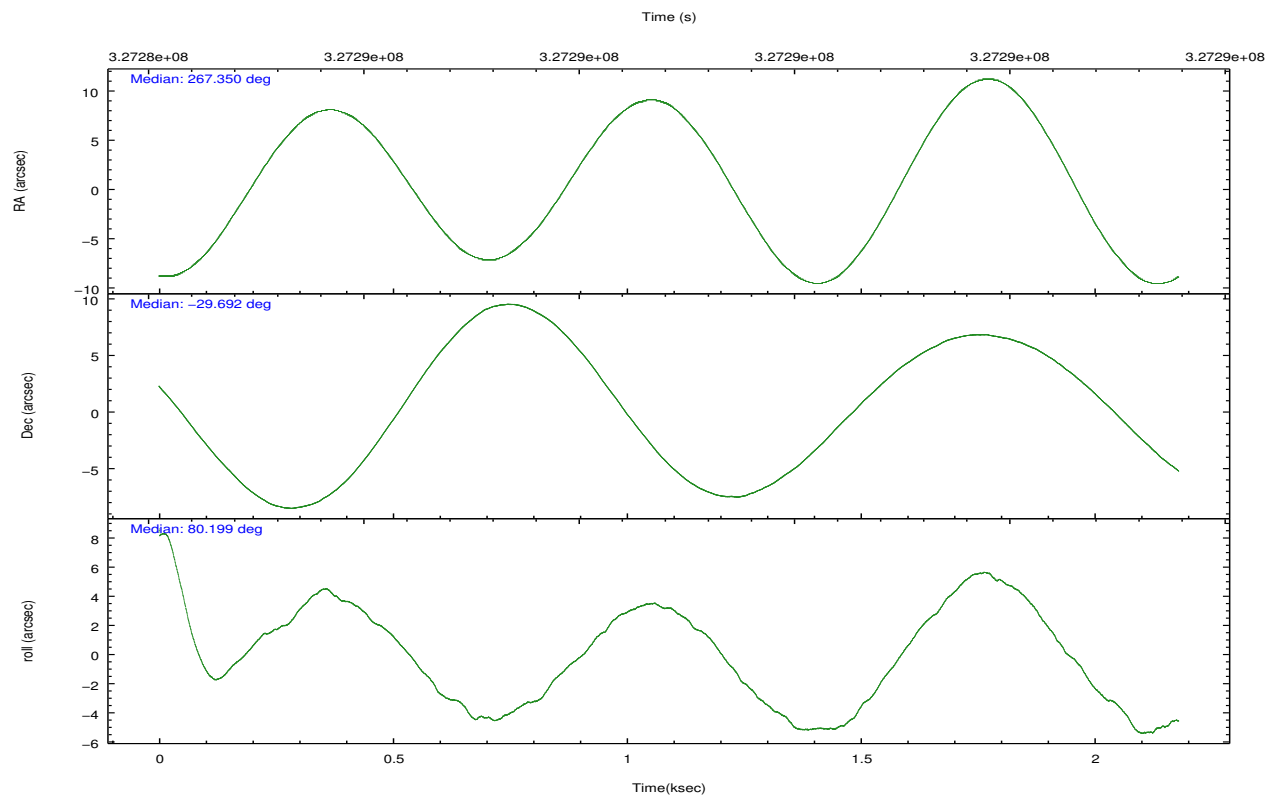
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	1174	1111	1069	918	996
	6%	5%	5%	4%	4%
grade 1 events	13	12	6	15	18
	0%	0%	0%	0%	0%
grade 2 events	539	565	512	428	2115
	2%	3%	2%	2%	9%
grade 3 events	232	232	212	233	896
	1%	1%	1%	1%	4%
grade 4 events	217	241	224	229	878
	1%	1%	1%	1%	4%
grade 5 events	664	734	623	779	2188
	3%	3%	3%	4%	10%
grade 6 events	360	475	358	398	5230
	1%	2%	1%	2%	24%
grade 7 events	15174	15417	17313	16246	9167
	82%	82%	85%	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	267.361261	267.350059879038	CCD I2 on	Y	Y
[deg] Pointing Dec	-29.717342	-29.69163475962497	CCD I3 on	Y	Y
[deg] Pointing Roll	80.004556	80.2077094379281	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)	327285299.184000	327284923.32402	CCD S5 on	N	N
Observation start date	2008-05-16T00:33:54	2008-05-16T00:28:43	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	327287299.184000	327287865.07416	On-chip summing requested	N	N
Observation end date	2008-05-16T01:07:14	2008-05-16T01:17:45	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



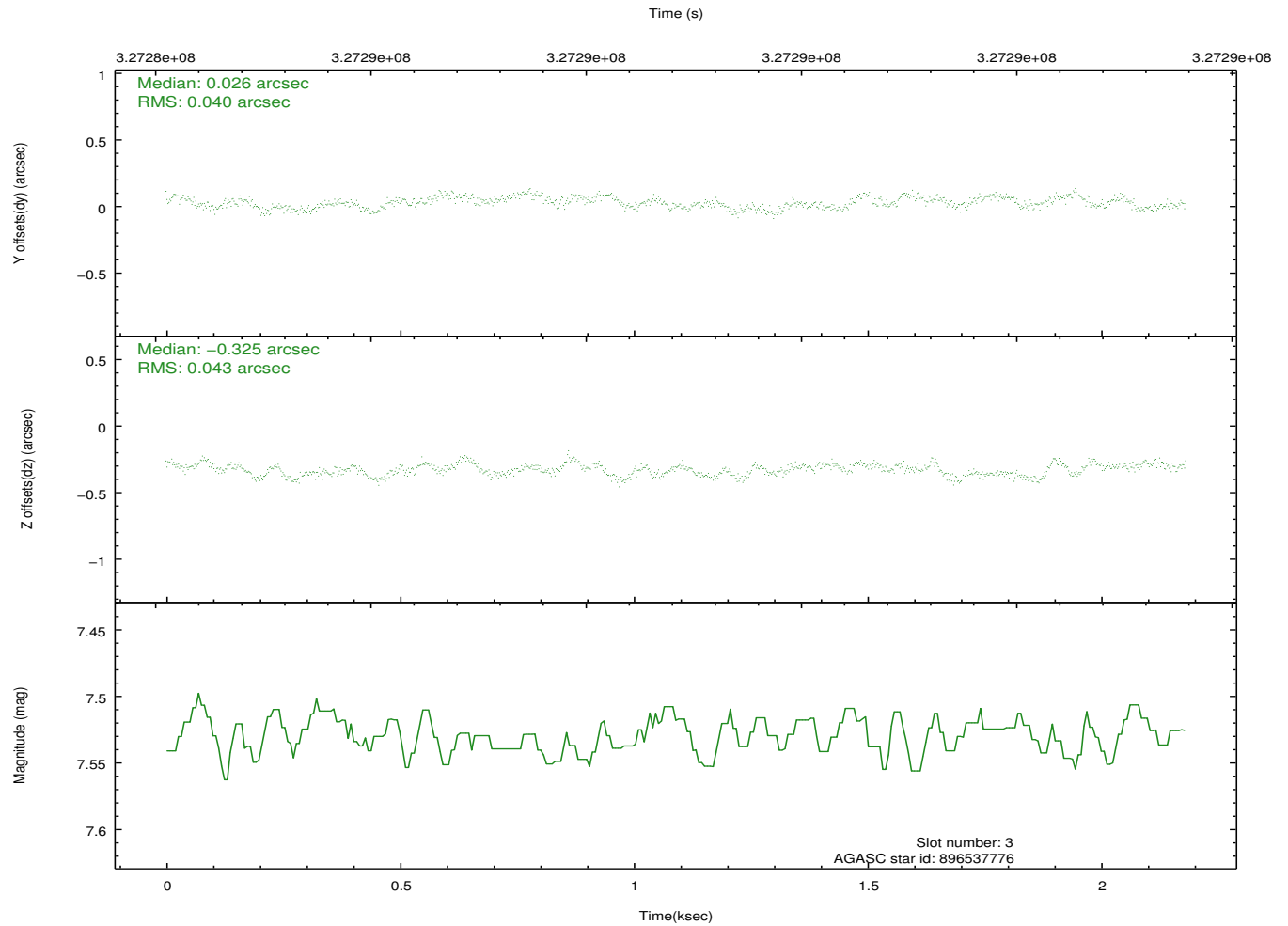
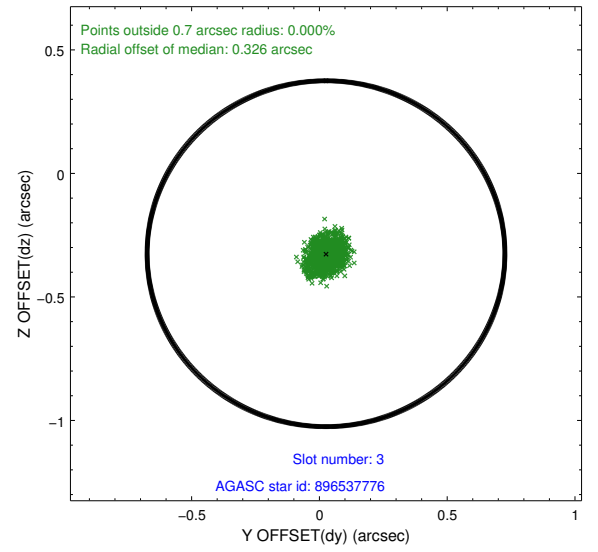
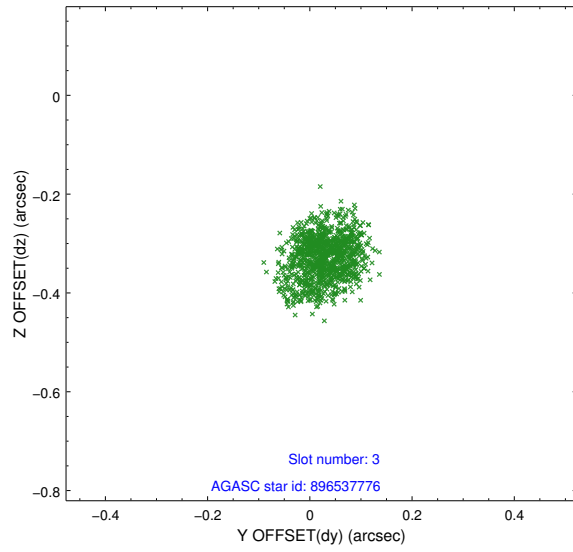


Slot Statistics

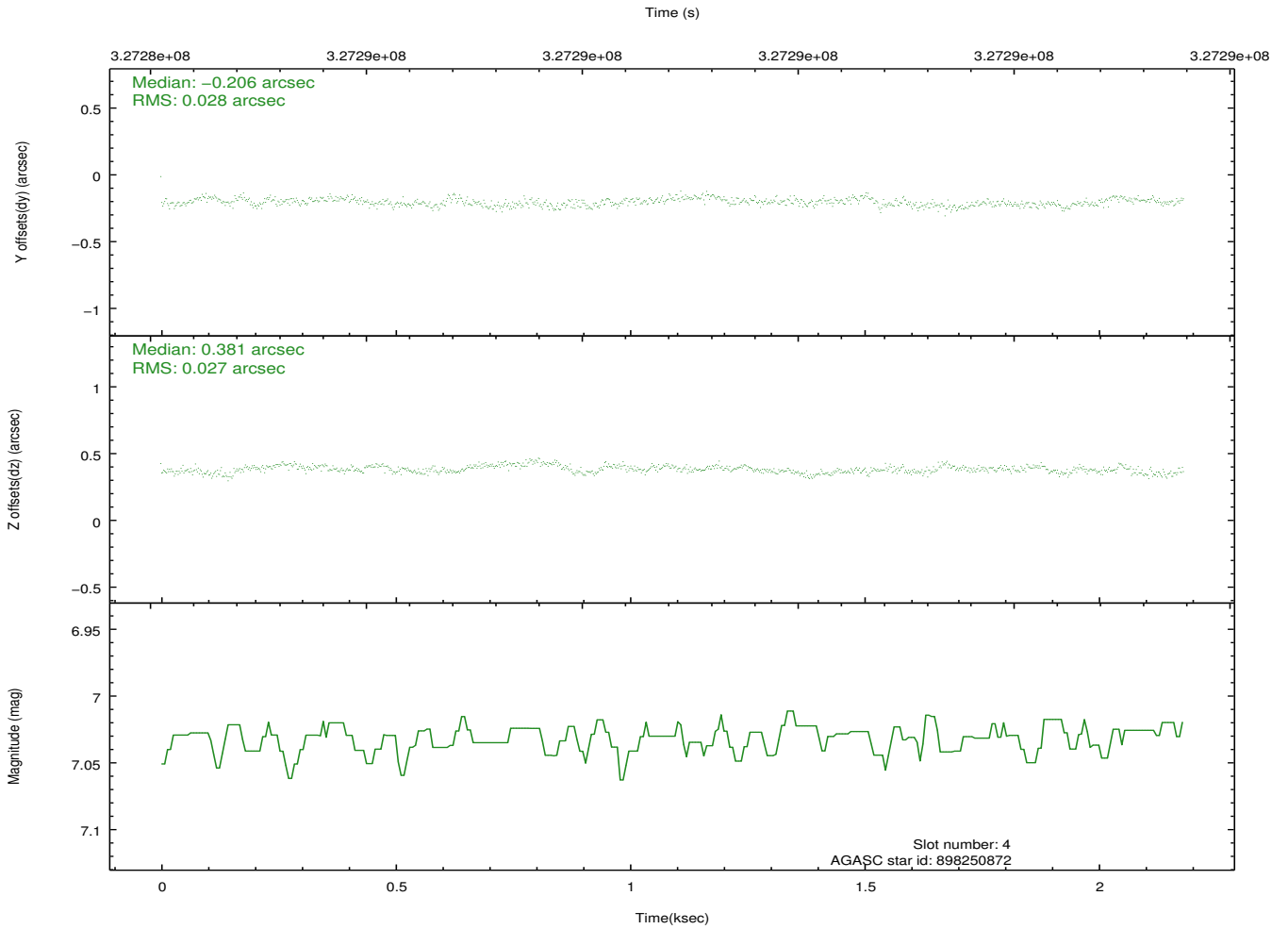
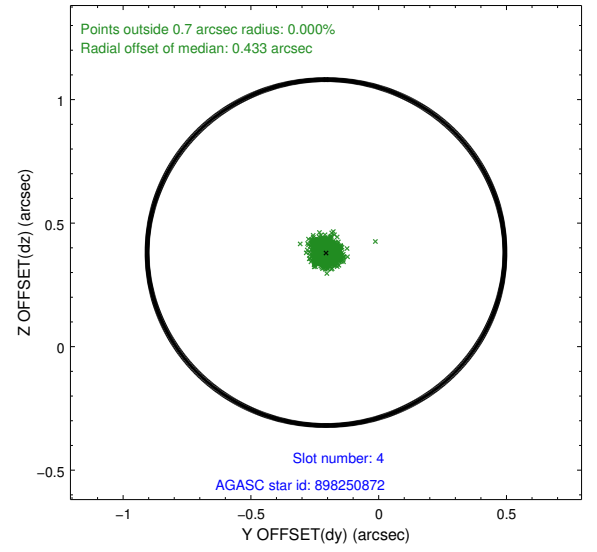
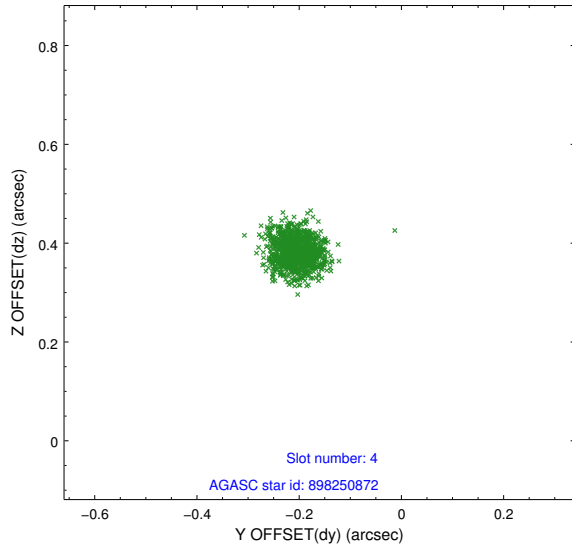
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.04	532	0.021	0.029	0.006	0.010	0.000000	0.000000	925.89	-837.56
1	FID		ACIS-I-5	7.03	533	-0.203	0.034	0.005	0.011	0.000000	0.000000	-1820.82	1058.39
2	FID		ACIS-I-6	7.04	531	0.091	0.007	0.007	0.012	0.000000	0.000000	388.20	1706.29
3	GUIDE	used	896537776	7.53	1065	0.026	-0.325	0.064	0.099	266.655684	-29.665673	-206.42	2204.13
4	GUIDE	used	898250872	7.03	1065	-0.206	0.381	0.041	0.066	268.026303	-29.632040	658.12	-1994.89
5	GUIDE	used	966926496	8.10	1065	0.257	-0.055	0.067	0.105	267.109389	-30.299474	-2199.50	404.91
6	GUIDE	used	896533888	7.03	1065	-0.156	-0.333	0.060	0.097	266.666434	-29.392757	763.94	2347.92
7	GUIDE	used	898248800	8.23	1064	0.077	0.331	0.063	0.109	267.977609	-29.931731	-429.85	-2026.36

2.4 Star Slots

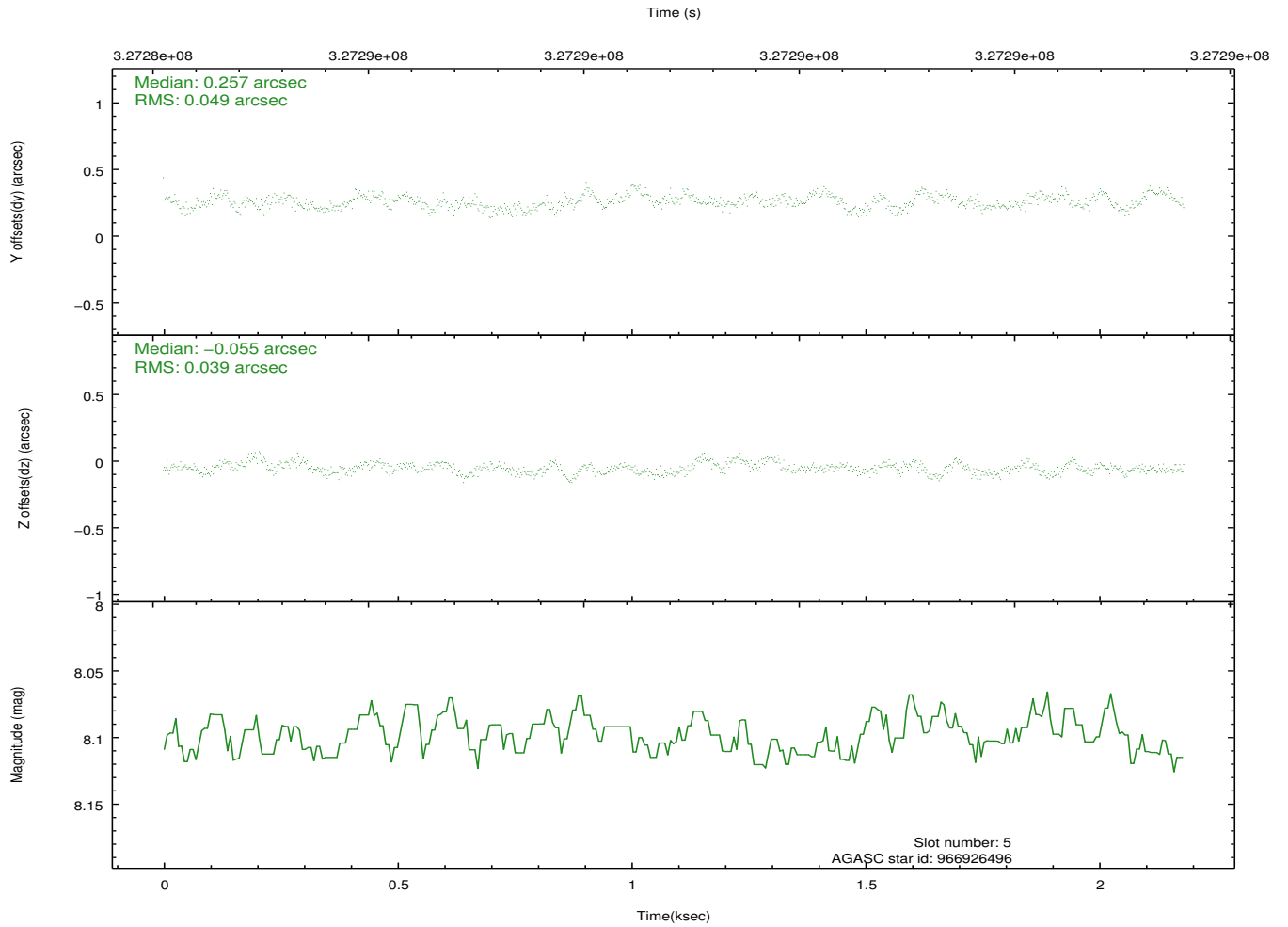
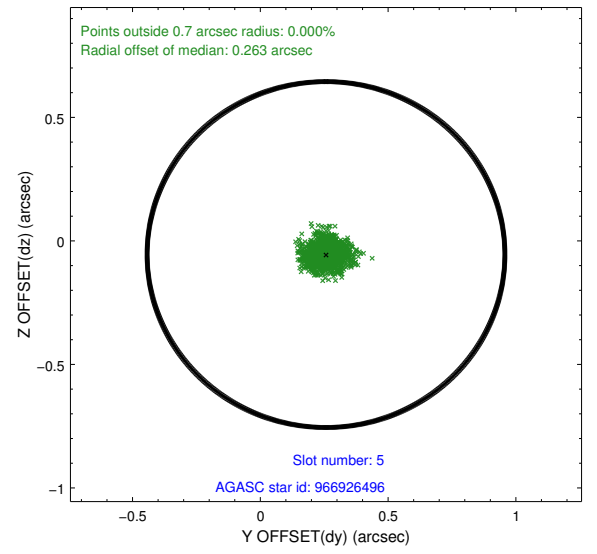
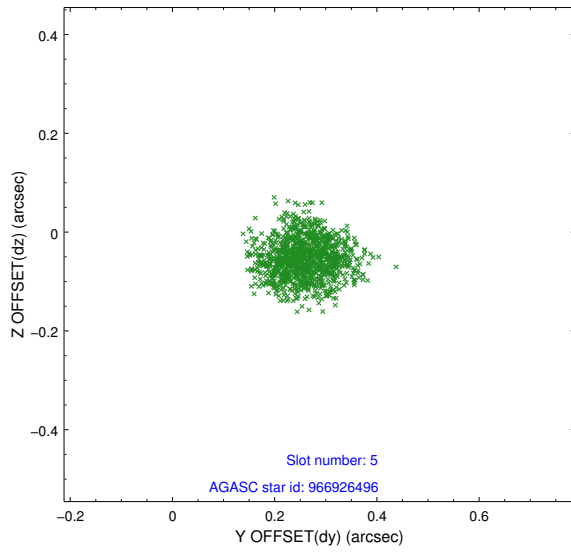
2.4.1 Slot 3



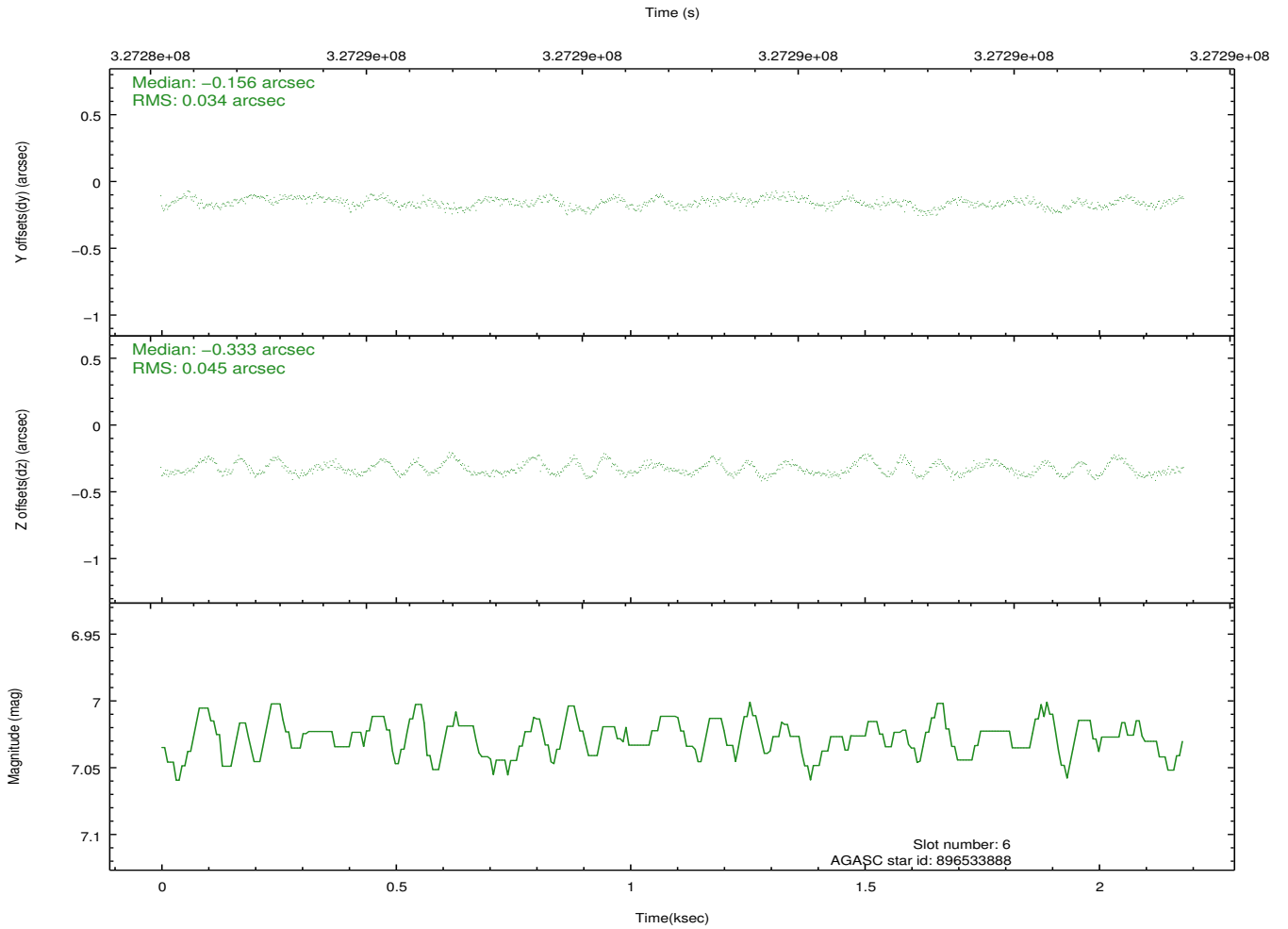
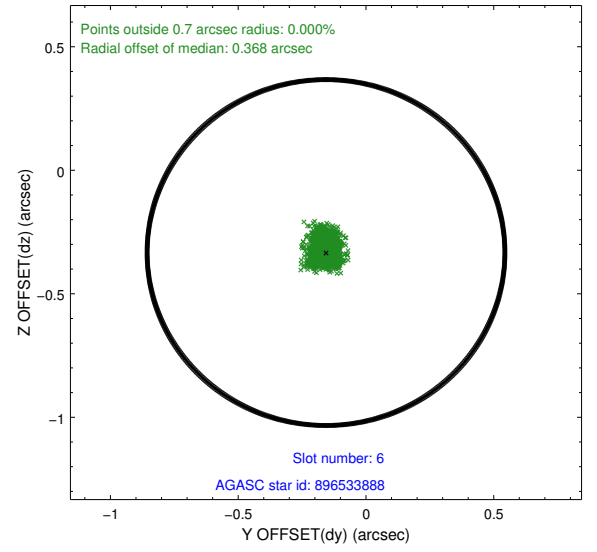
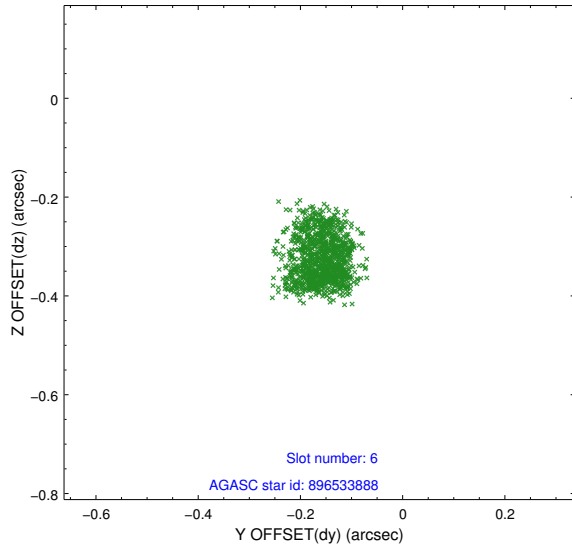
2.4.2 Slot 4



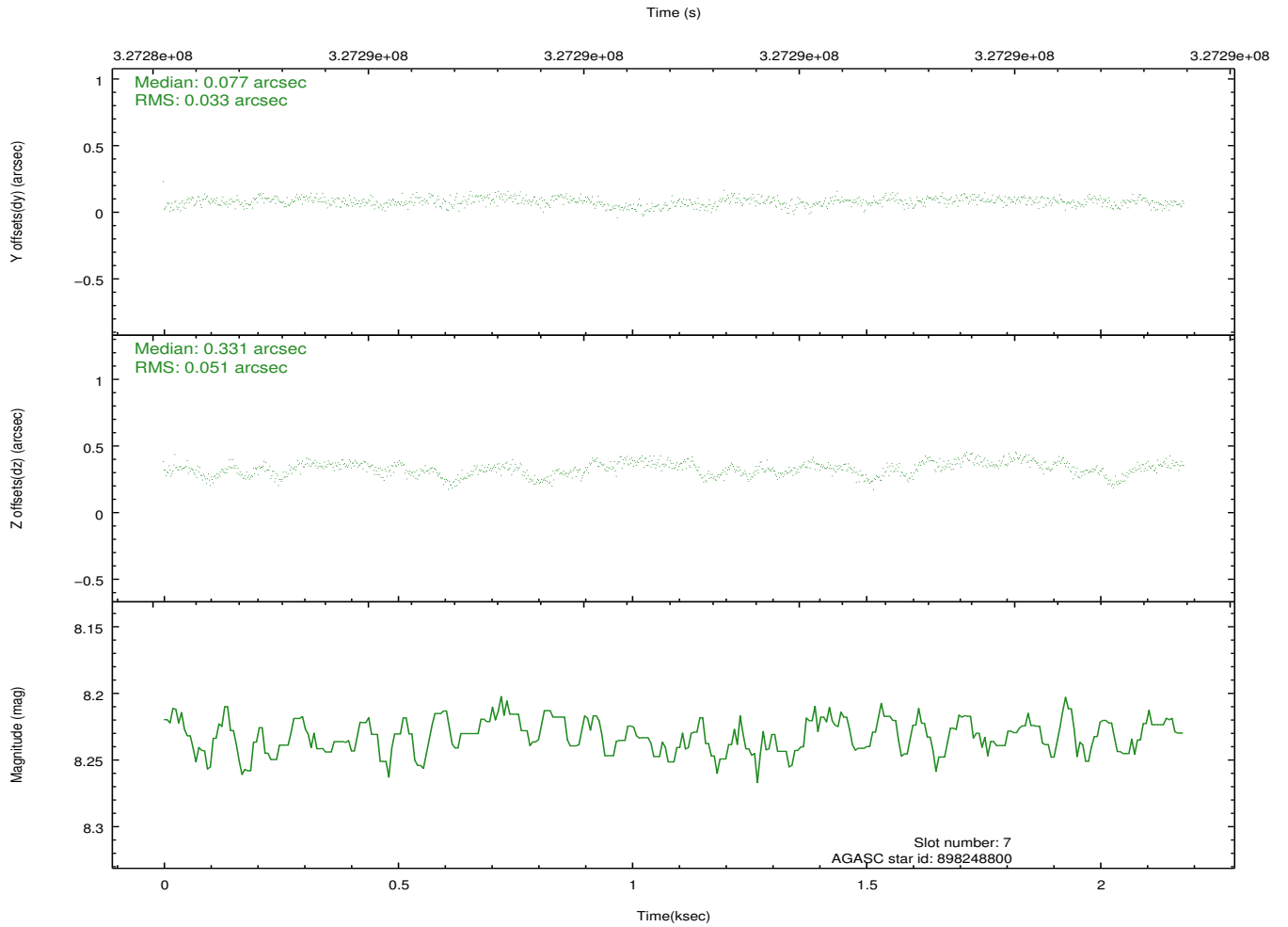
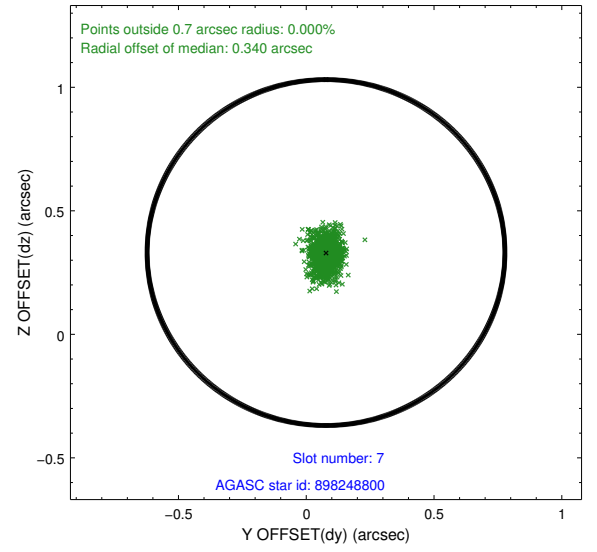
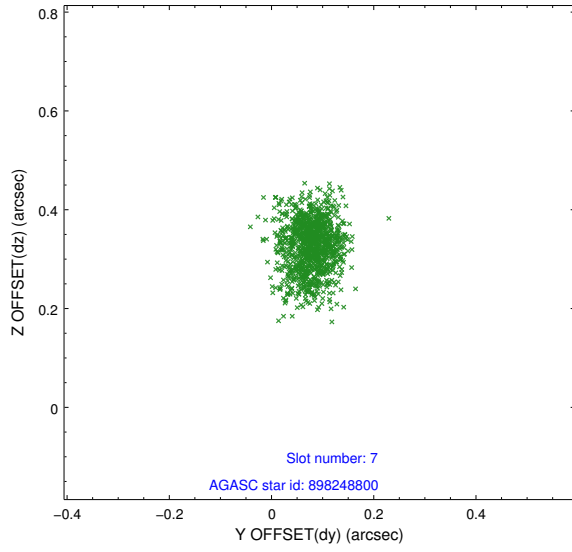
2.4.3 Slot 5



2.4.4 Slot 6

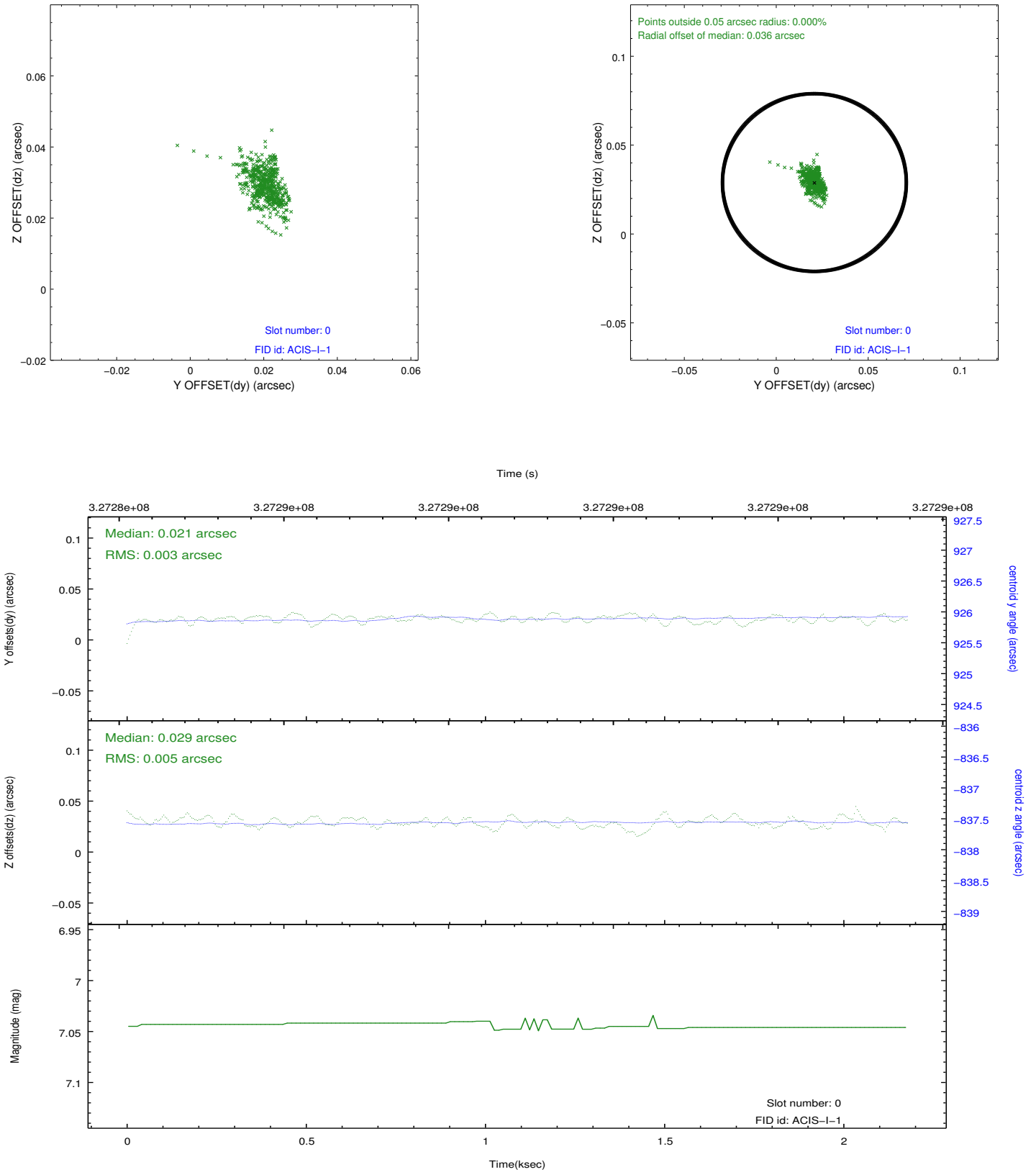


2.4.5 Slot 7

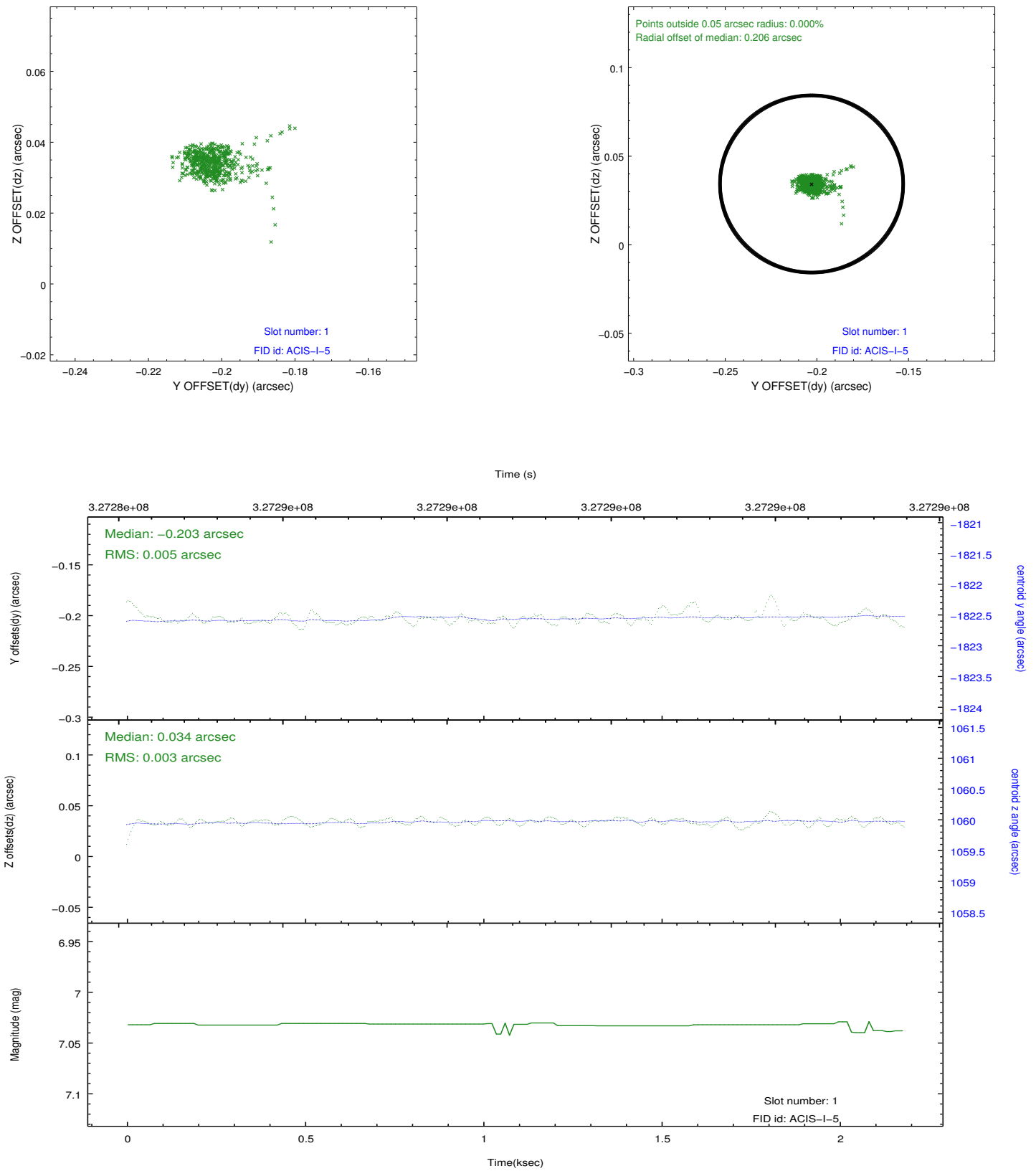


2.5 FID Slots

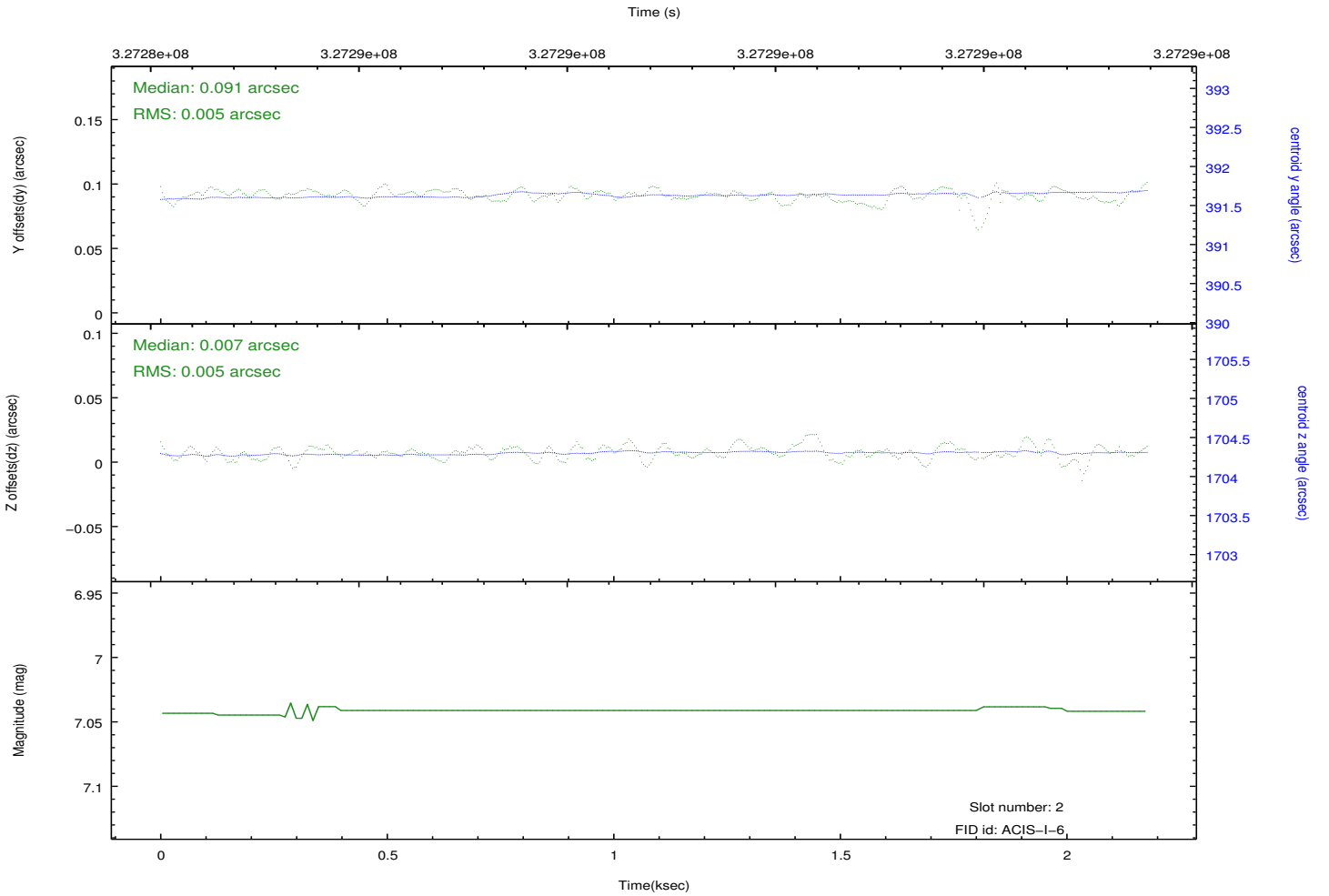
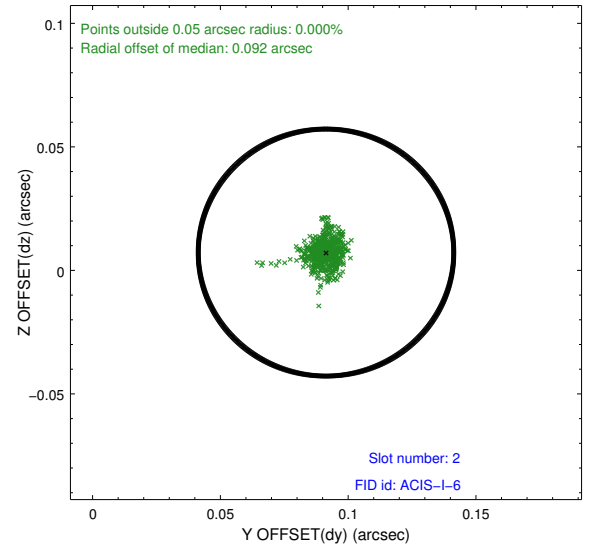
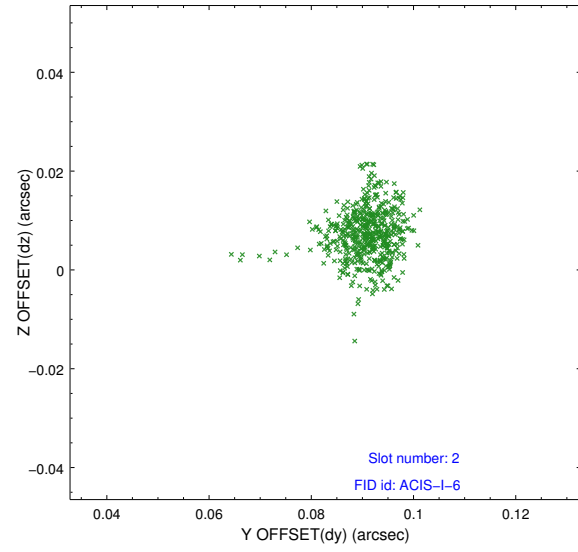
2.5.1 Slot 0



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)	2015.07.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.17620001

A.2 Comments

Joint proposal with NOAO.

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.