

V&V Reference Report

L2 ASCDS Version : 10.4.2.1

Observation 18632 - L2 Version 1
Chandra X-Ray Center

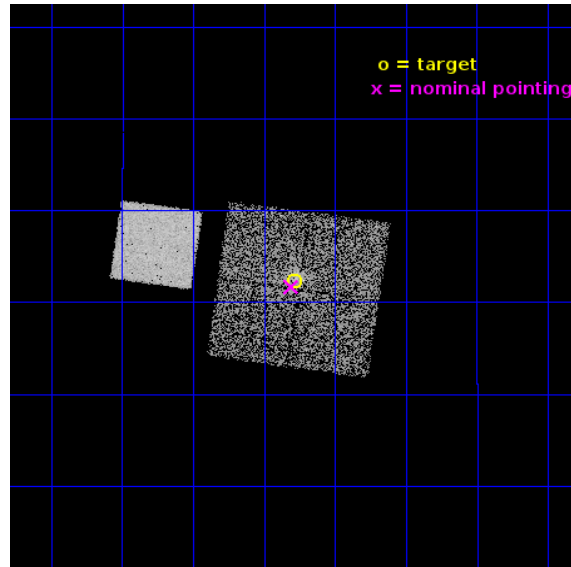
L2 Processing Date : Oct 23 2015

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1 Front

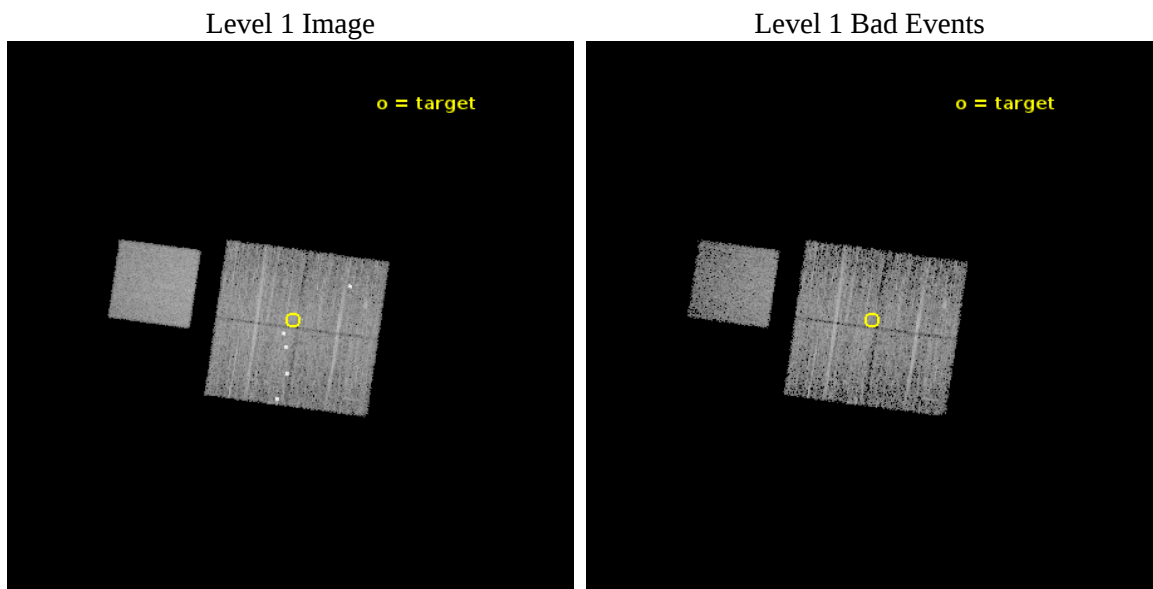
seq_num	801640	Sequence number
obs_id	18632	Observation id
title	Lensing Calibration of the Evolution of Cluster Scaling Relations for eROSITA	Proposal title
observer	Dr. Peter Predehl	Principal investigator
object	CODEX 54795	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	345.572083	Observer's specified target RA [deg]
dec_targ	8.037167	Observer's specified target Dec [deg]
ra_nom	345.57672449496	Nominal RA [deg]
dec_nom	8.0282998436061	Nominal Dec [deg]
roll_nom	278.00162909629	Nominal Roll [deg]
revision	1	Processing version of data
ontime	7061.800054431	Sum of GTIs [s]
livetime	6969.5324378983	Livetime [s]
ontime0	7061.800054431	Sum of GTIs [s]
ontime1	7058.6589740515	Sum of GTIs [s]
ontime2	7061.800054431	Sum of GTIs [s]
ontime3	7061.800054431	Sum of GTIs [s]
ontime7	7061.800054431	Sum of GTIs [s]
l2events	36861	Number of level 2 events



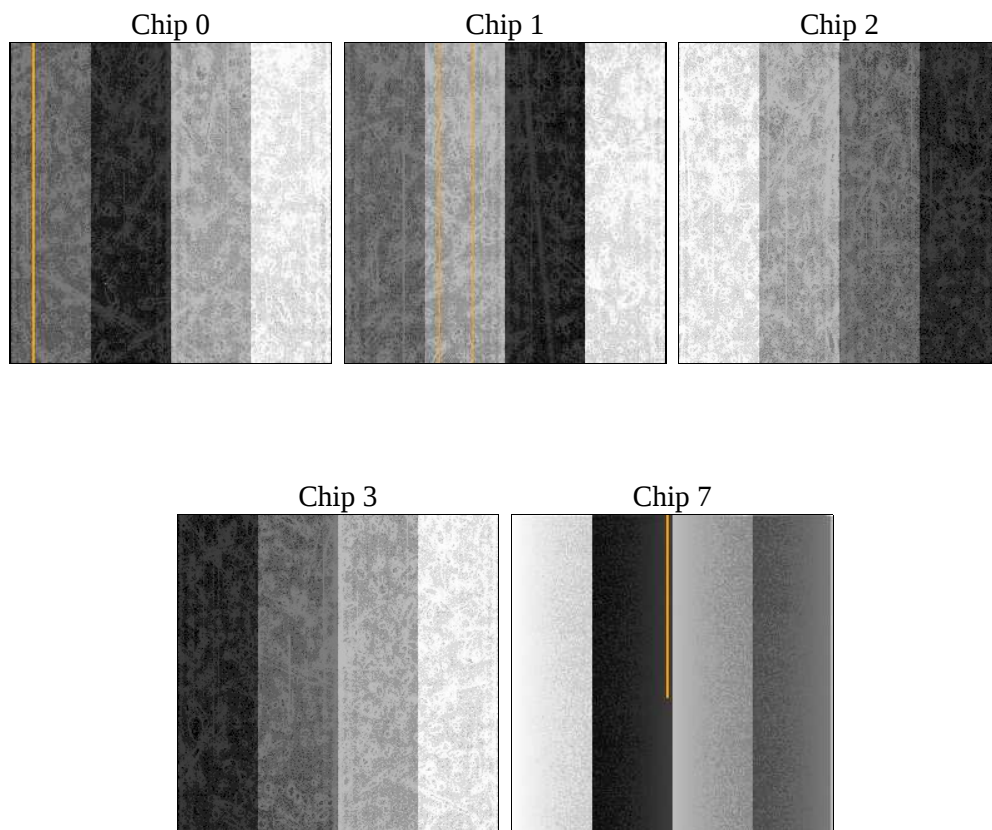
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.2.1	Processing system revision	ontime	7061.800054431	Sum of GTIs [s]
caldsver	4.6.10a	 	ontime0	7061.800054431	Sum of GTIs [s]
date	2015-10-23T18:40:58	Date and time of file creation	ontime1	7058.6589740515	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	7061.800054431	Sum of GTIs [s]
			ontime3	7061.800054431	Sum of GTIs [s]
			ontime7	7061.800054431	Sum of GTIs [s]
			l1events	218093	Number of level 1 events

2.1.4 Events

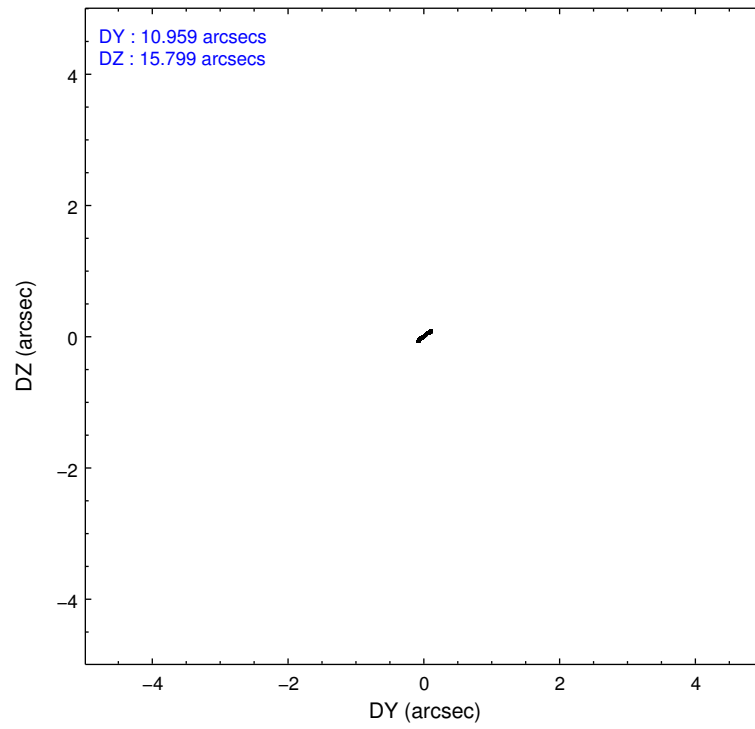
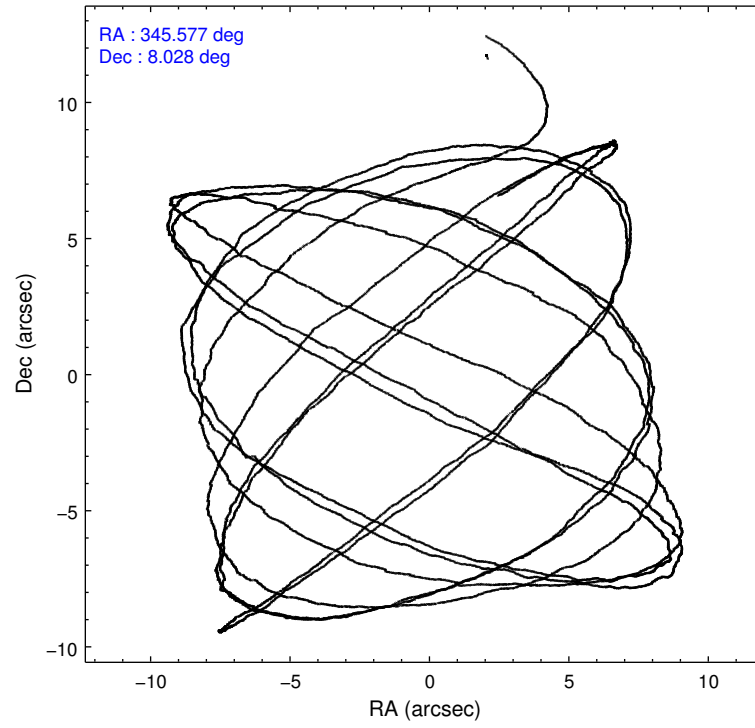
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	35324	40625	48797	40651	52696
rejected events	30839	33634	35807	36086	30313
rejected %	87%	82%	73%	88%	57%

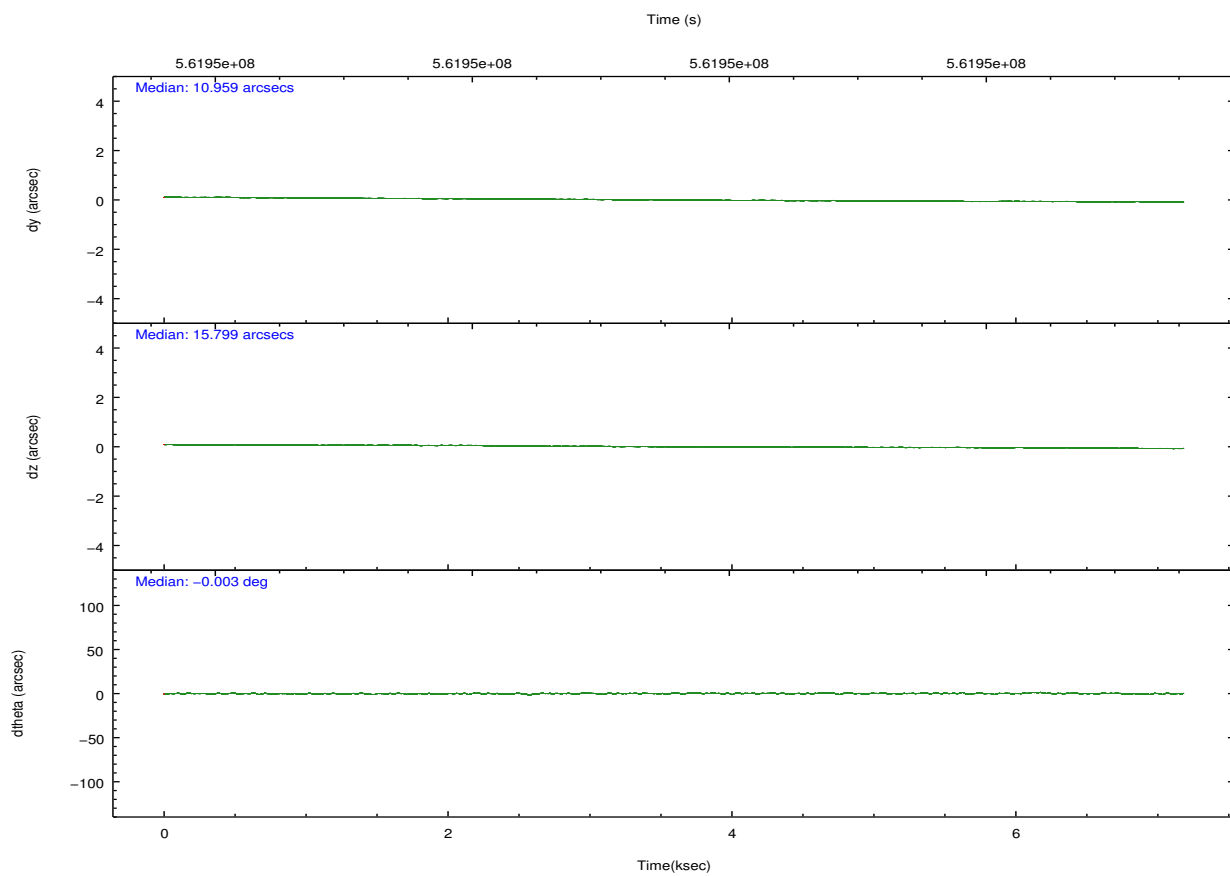
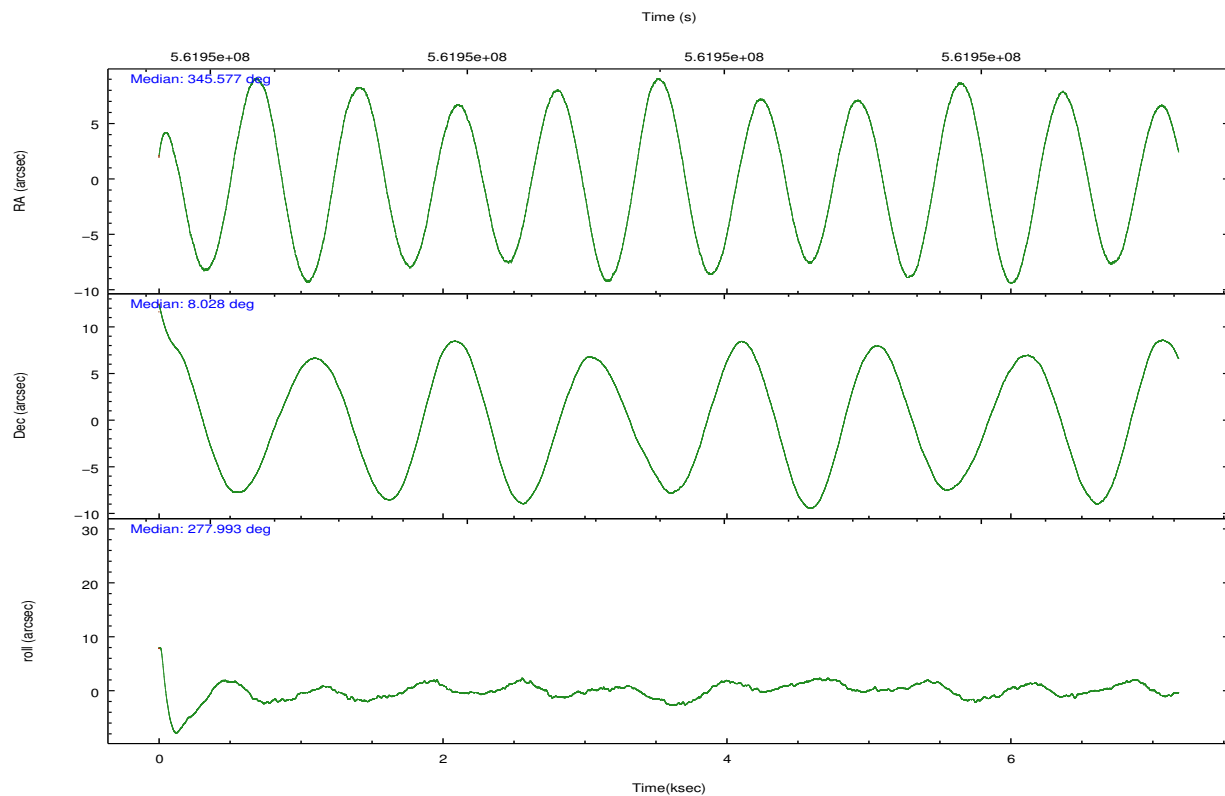
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	1566	3786	10175	1733	1800
	4%	9%	20%	4%	3%
grade 1 events	25	30	55	16	55
	0%	0%	0%	0%	0%
grade 2 events	1121	1173	1031	927	4868
	3%	2%	2%	2%	9%
grade 3 events	458	448	457	451	1612
	1%	1%	0%	1%	3%
grade 4 events	435	430	491	458	1698
	1%	1%	1%	1%	3%
grade 5 events	1628	1682	1602	1930	4980
	4%	4%	3%	4%	9%
grade 6 events	912	1161	848	996	12425
	2%	2%	1%	2%	23%
grade 7 events	29179	31915	34138	34140	25258
	82%	78%	69%	83%	47%

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	345.559446	345.5767244949636	CCD I2 on	Y	Y
[deg] Pointing Dec	8.049927	8.028299843606092	CCD I3 on	Y	Y
[deg] Pointing Roll	277.795329	278.0016290962905	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)	561946166.184000	561944656.50967	CCD S5 on	N	N
Observation start date	2015-10-23T00:08:18	2015-10-22T23:44:16	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	561953166.184000	561954066.5227	On-chip summing requested	N	N
Observation end date	2015-10-23T02:04:58	2015-10-23T02:21:06	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



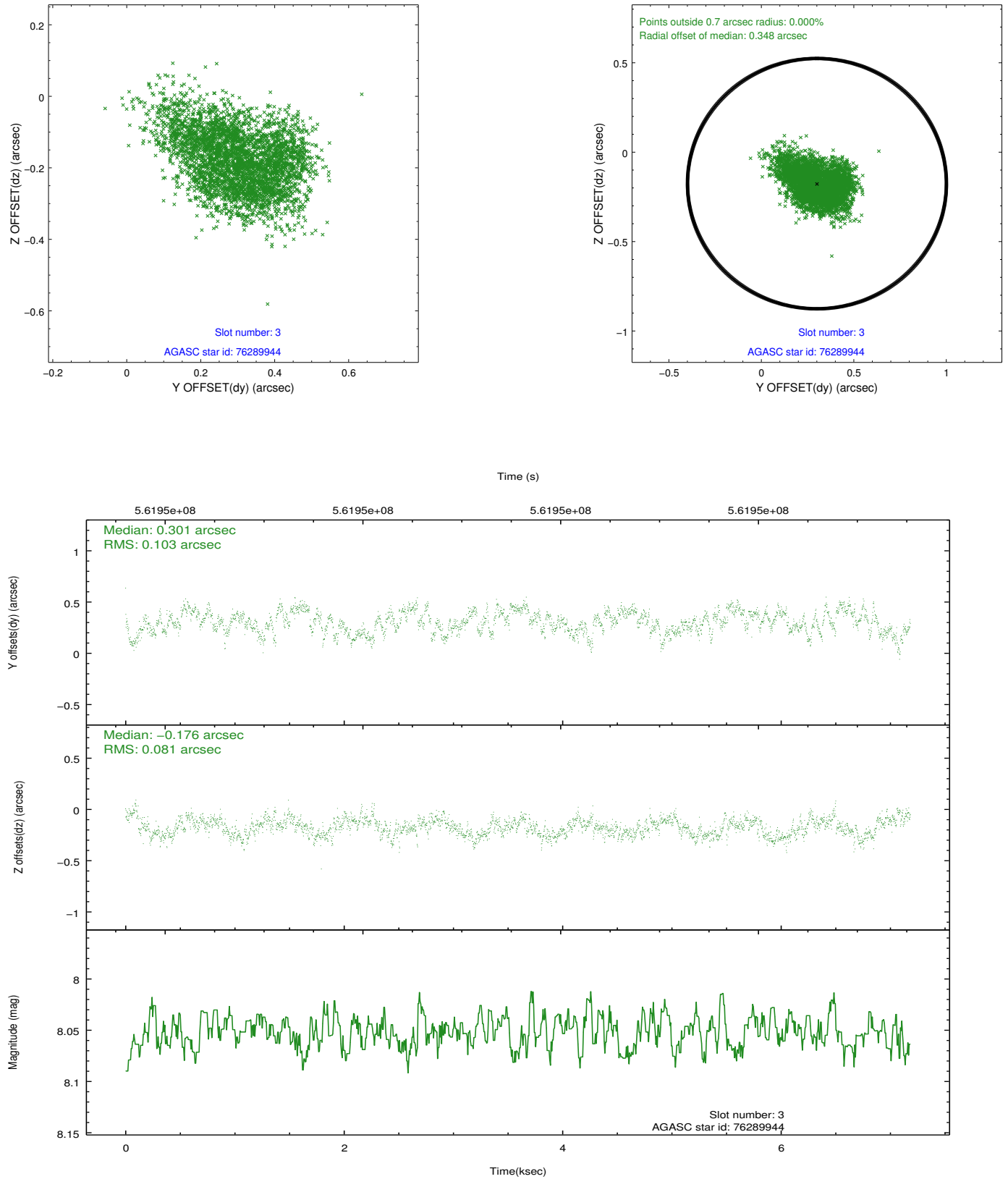


Slot Statistics

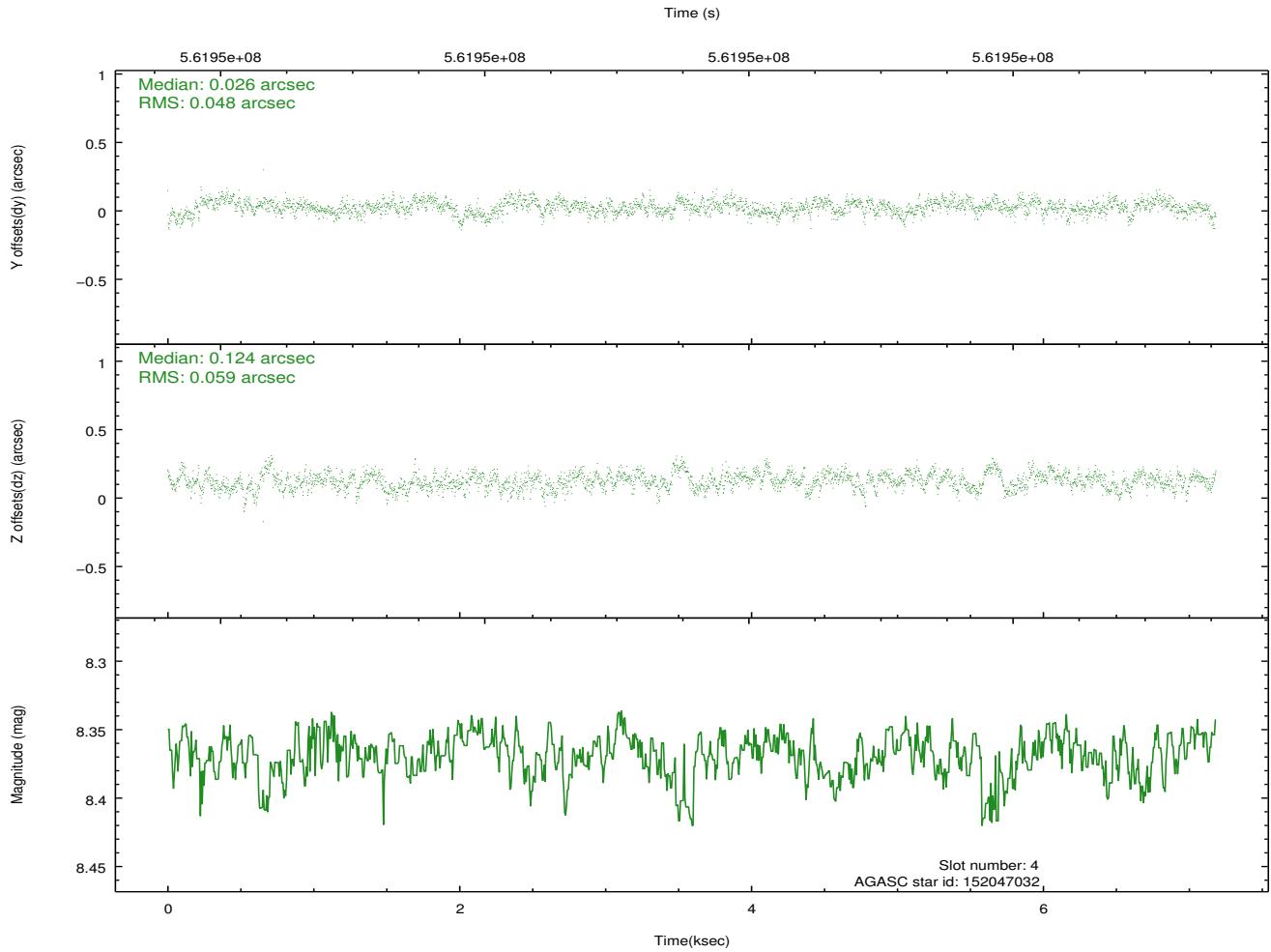
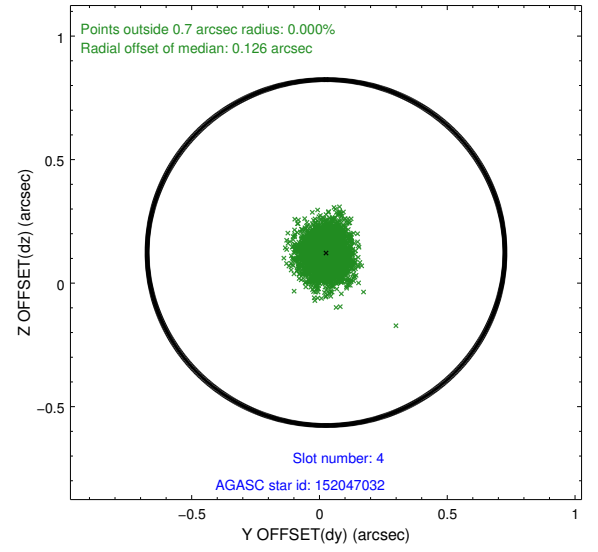
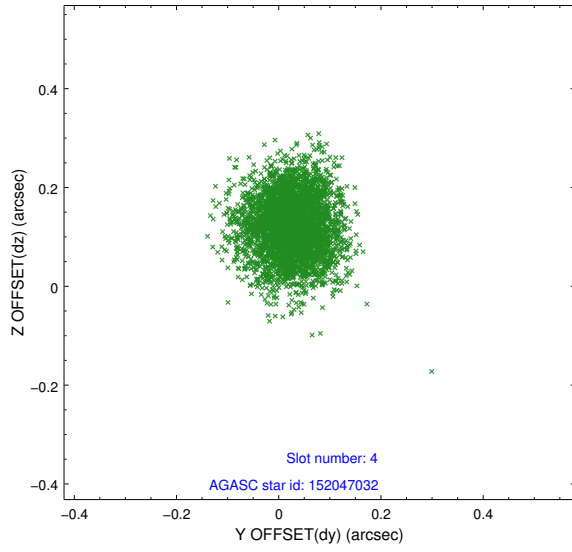
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.28	1752	0.092	-0.110	0.011	0.018	0.000000	0.000000	928.71	-839.53
1	FID		ACIS-I-5	7.27	1753	-0.306	0.053	0.008	0.013	0.000000	0.000000	-1819.38	1057.68
2	FID		ACIS-I-6	7.26	1753	0.123	0.126	0.009	0.013	0.000000	0.000000	393.38	1703.20
3	GUIDE	used	76289944	8.05	3505	0.301	-0.176	0.140	0.221	345.026815	7.383794	2117.99	-2208.73
4	GUIDE	used	152047032	8.37	3505	0.026	0.124	0.082	0.131	346.097703	8.190159	-240.41	1968.33
5	GUIDE	used	152051952	8.36	3502	-0.204	0.176	0.085	0.136	345.170095	7.962646	122.97	-1417.25
6	GUIDE	used	152052088	8.97	3504	-0.022	0.022	0.135	0.205	345.509667	8.677615	-2262.29	130.24
7	GUIDE	used	152050696	8.50	3503	-0.107	-0.143	0.107	0.174	346.226180	7.884709	909.60	2275.39

2.4 Star Slots

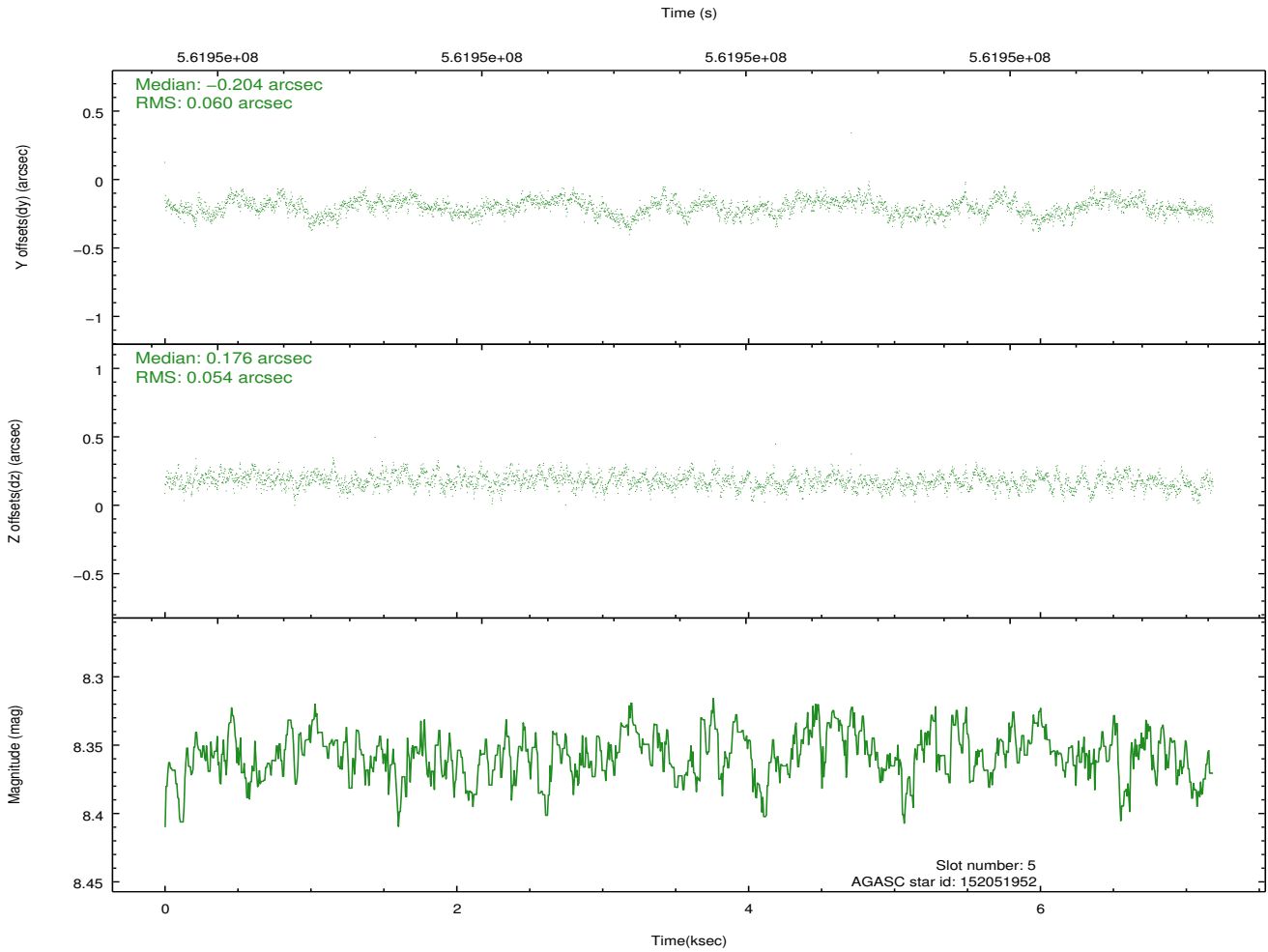
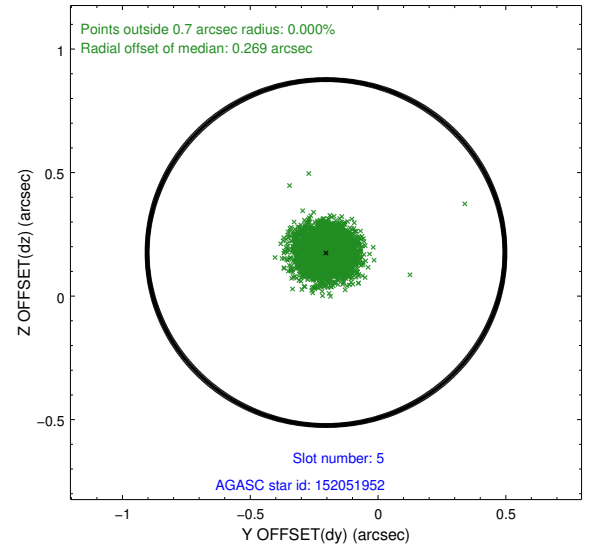
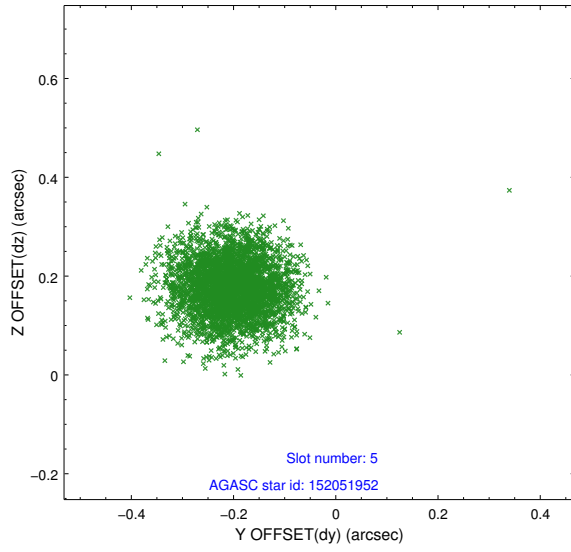
2.4.1 Slot 3



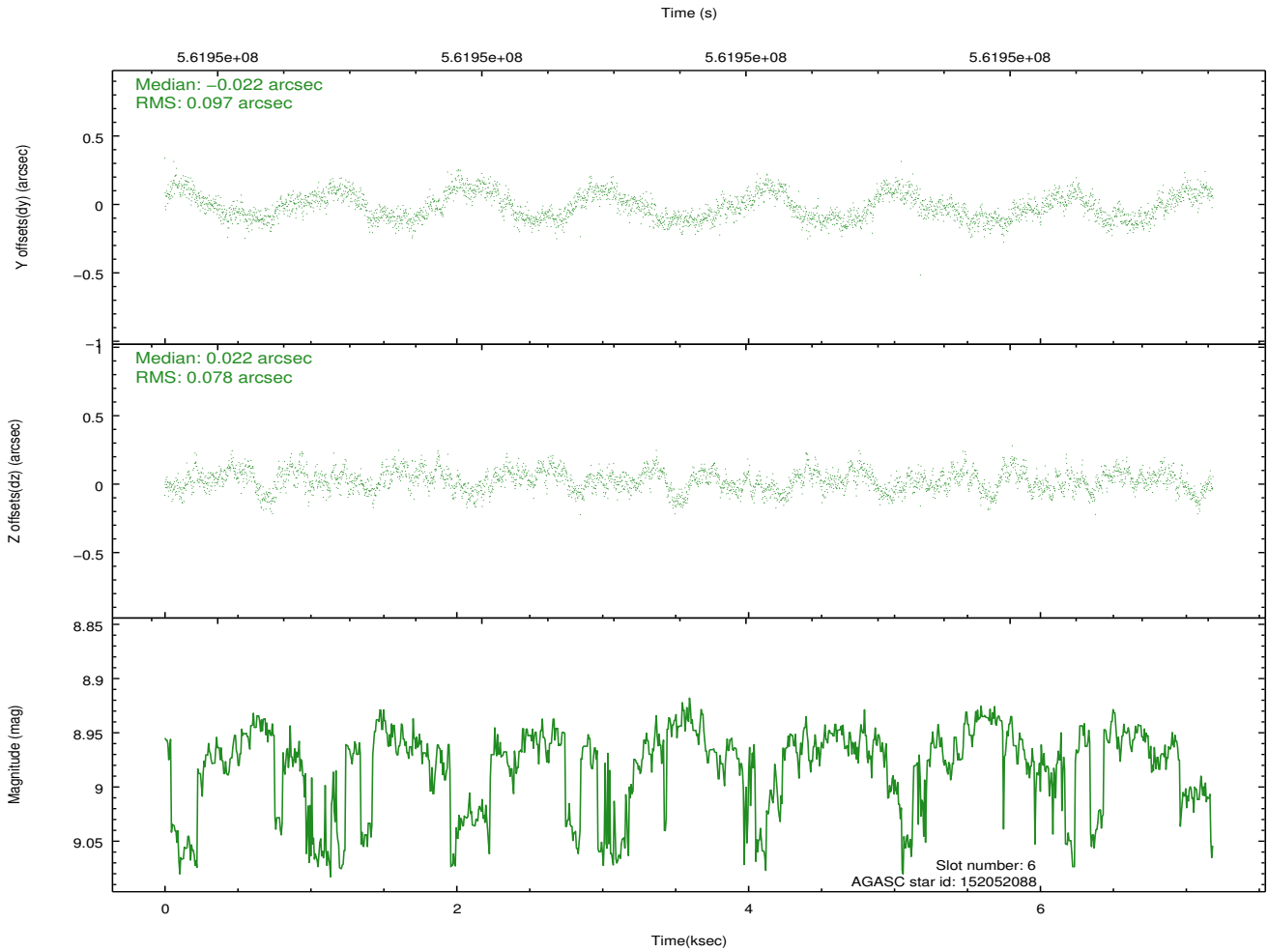
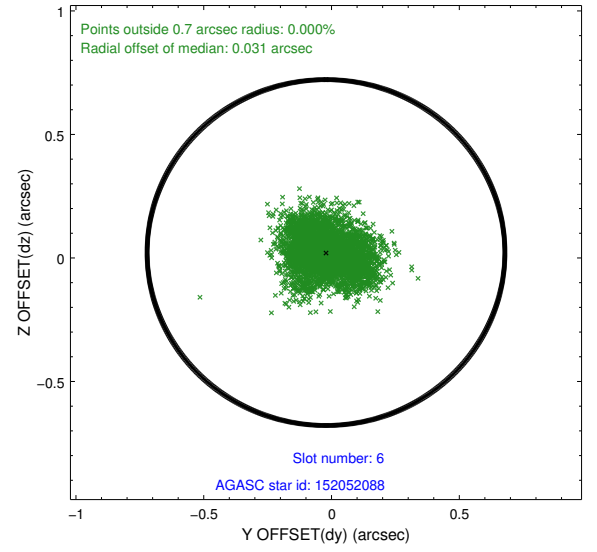
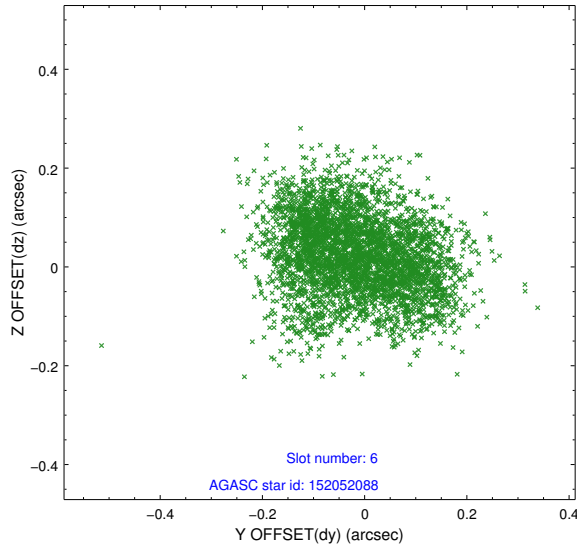
2.4.2 Slot 4



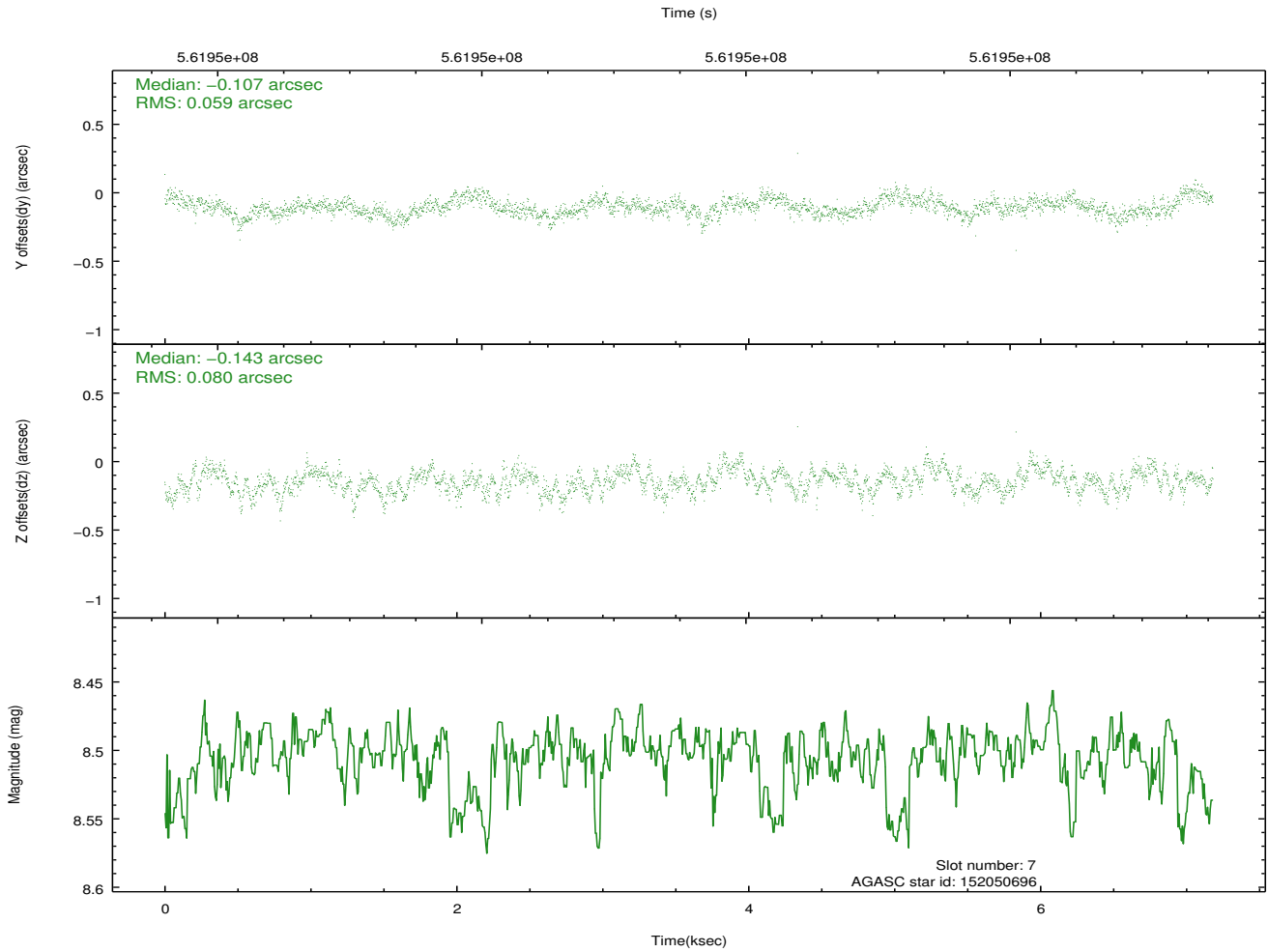
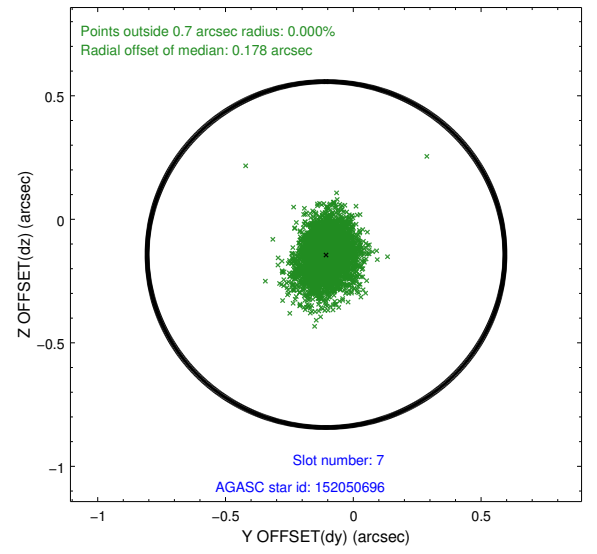
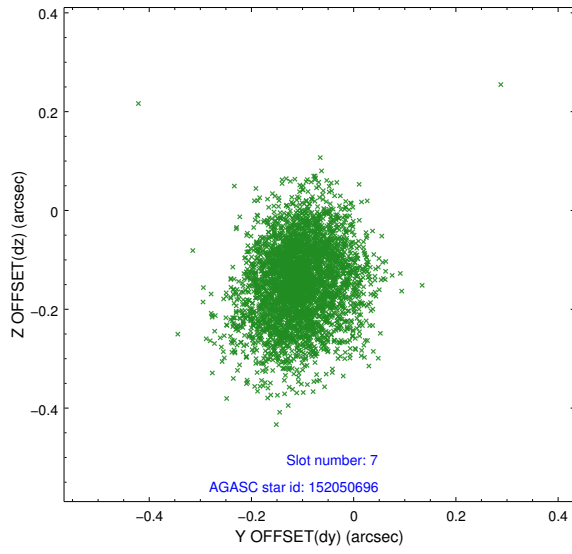
2.4.3 Slot 5



2.4.4 Slot 6

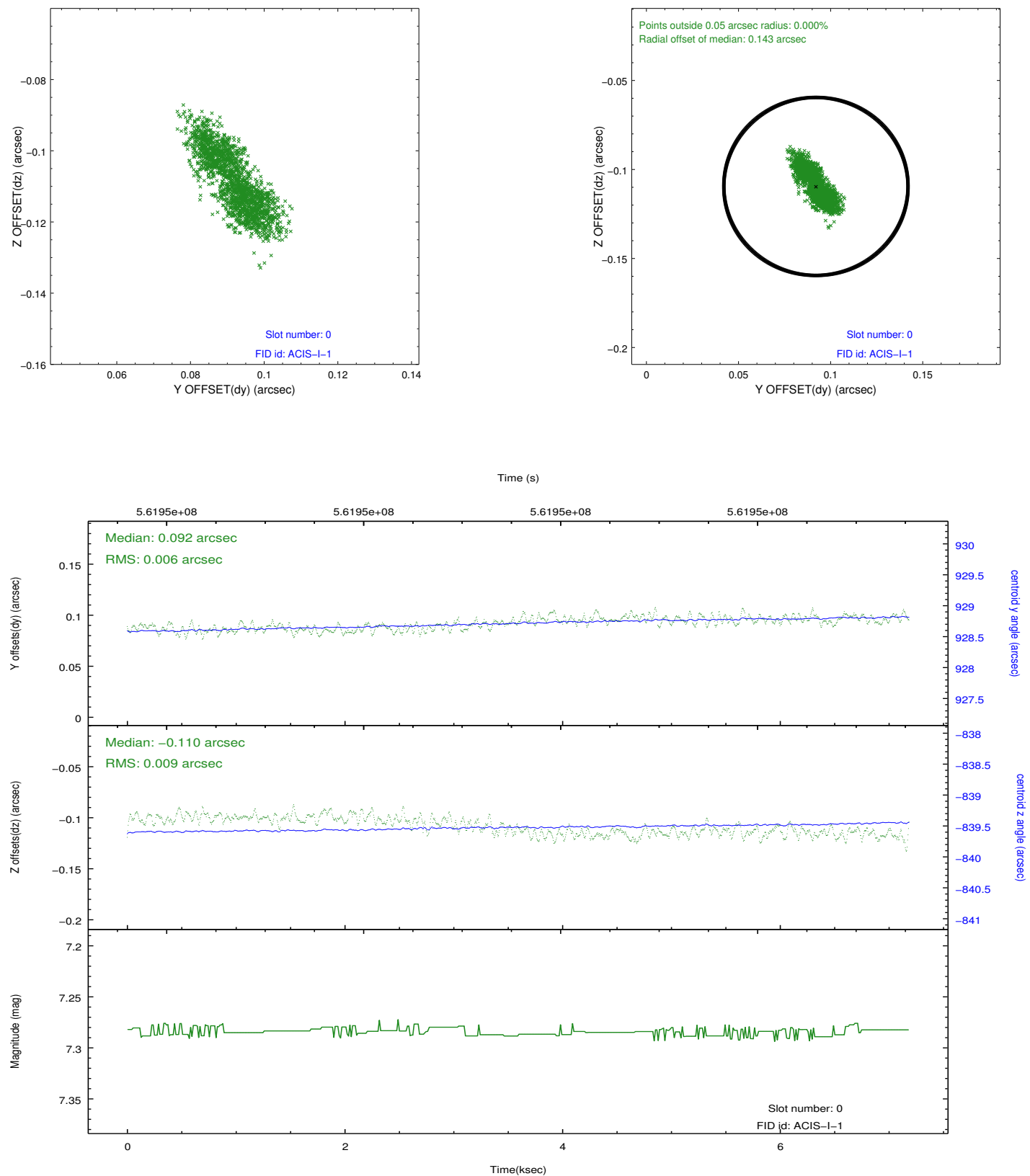


2.4.5 Slot 7

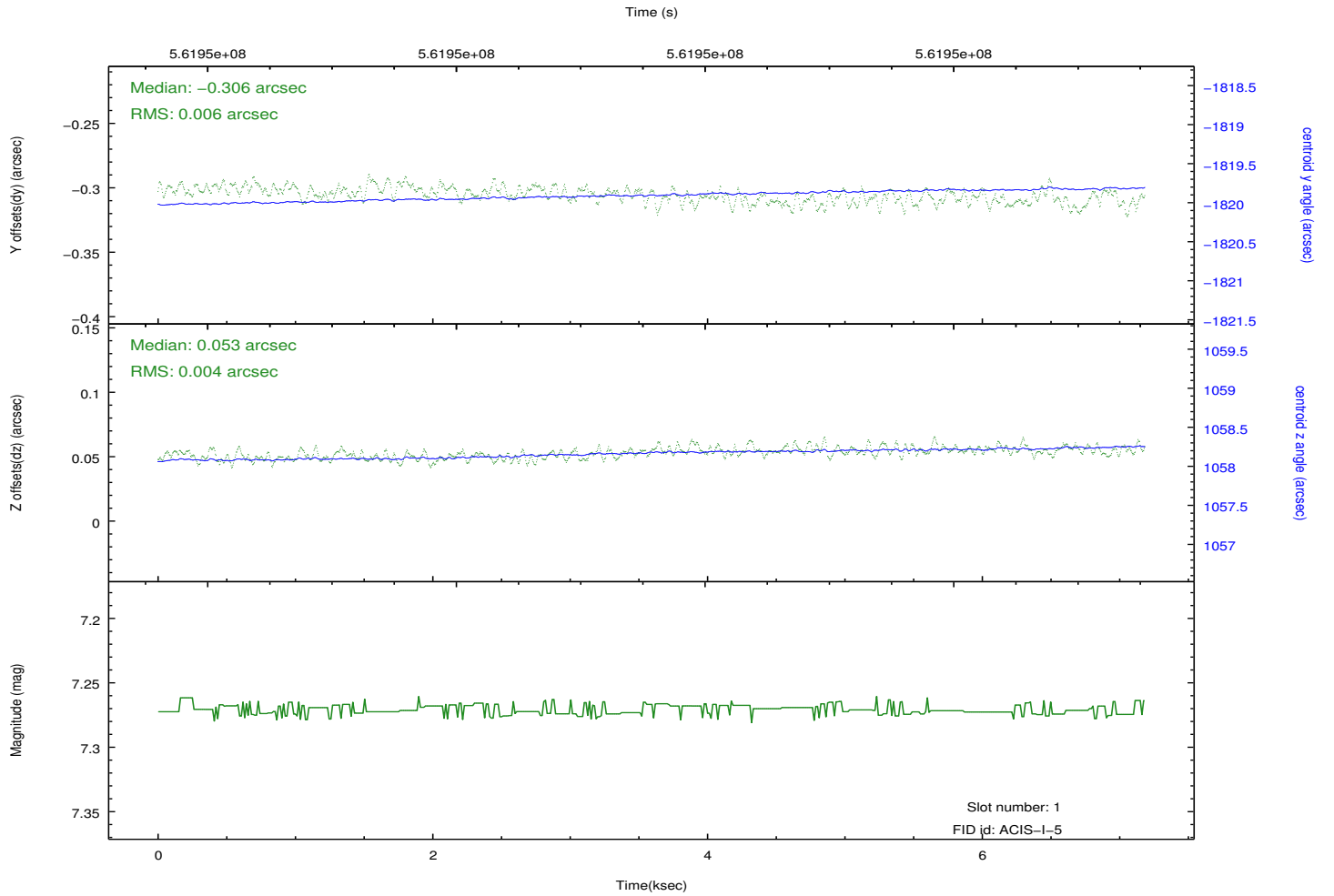
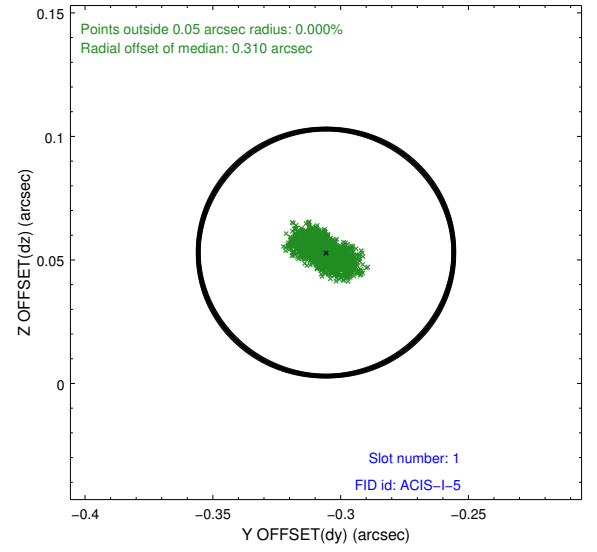
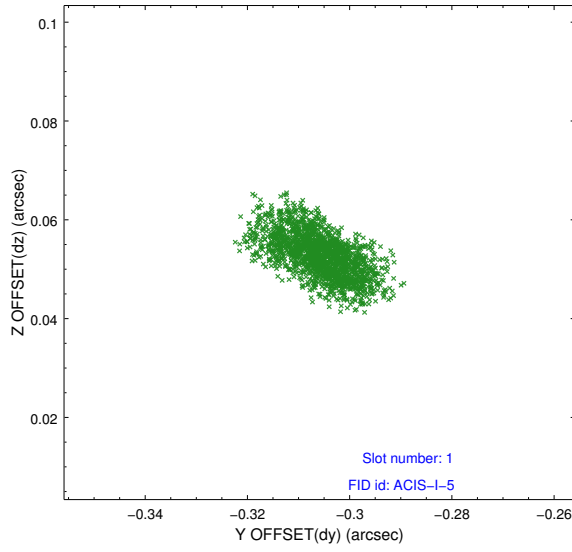


2.5 FID Slots

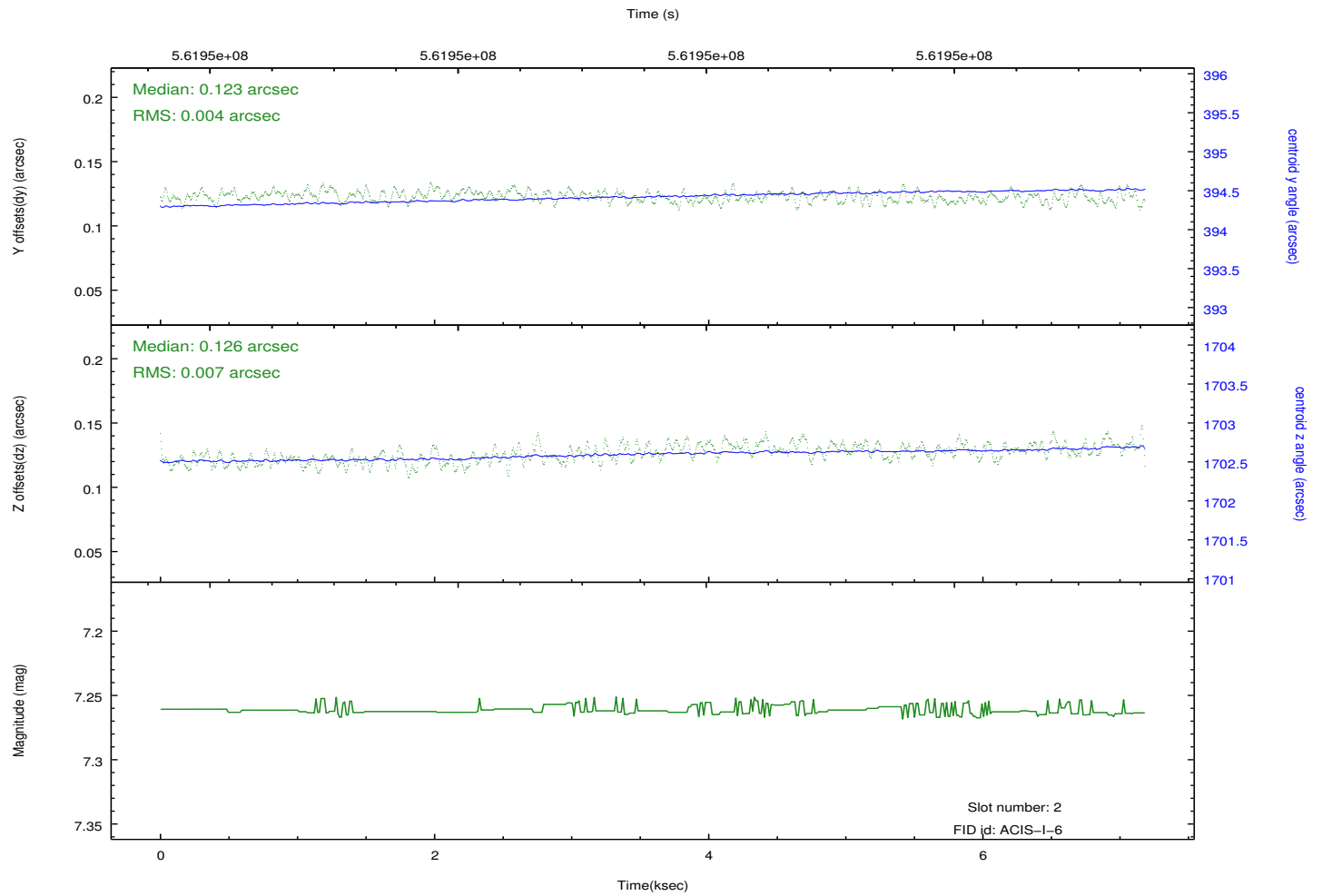
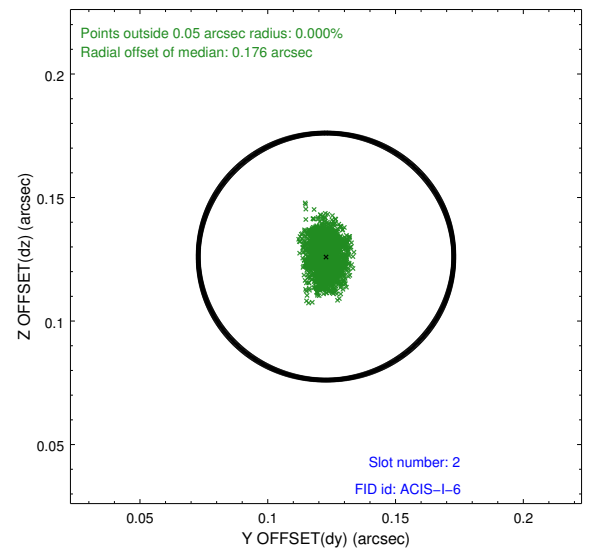
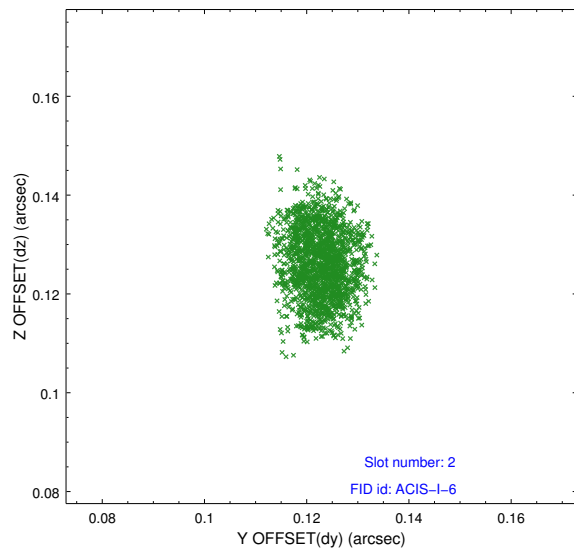
2.5.1 Slot 0



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)	2015.10.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.061800054431

A.2 Comments