

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18647 - L2 Version 1
Chandra X-Ray Center

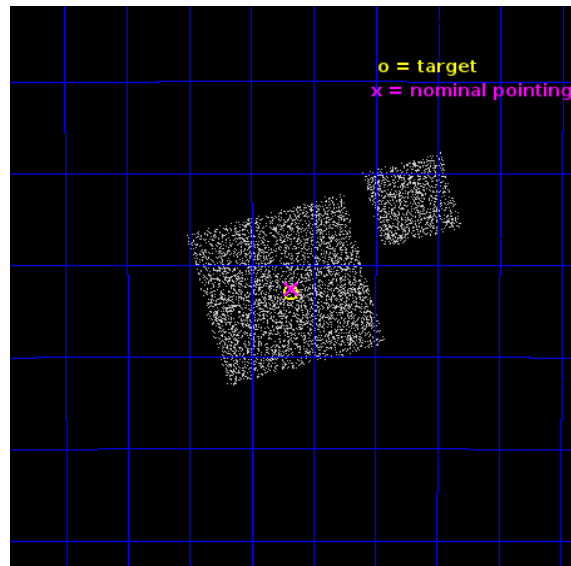
L2 Processing Date : May 22 2016

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1 Front

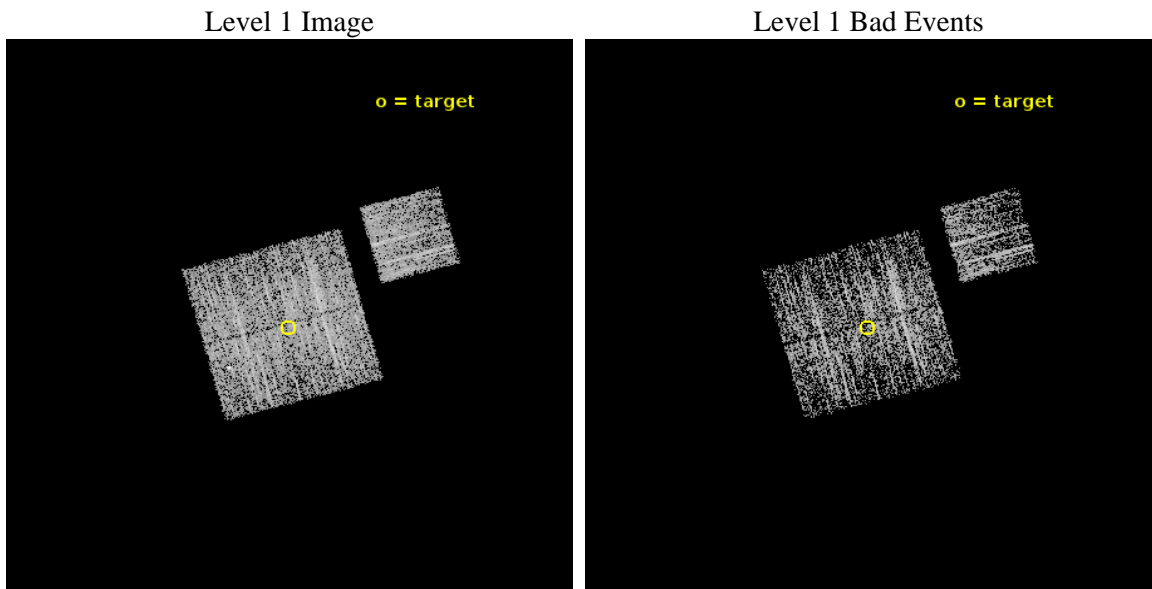
seq_num	300371	Sequence number
obs_id	18647	Observation id
title	X-raying the Galactic center/bulge interface	Proposal title
observer	Q. Daniel Wang	Principal investigator
object	GC-GB interface	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	265.79487	Observer's specified target RA [deg]
dec_targ	-30.04989	Observer's specified target Dec [deg]
ra_nom	265.79425884254	Nominal RA [deg]
dec_nom	-30.04297425988	Nominal Dec [deg]
roll_nom	74.554389493773	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1955.3159219027	Sum of GTIs [s]
livetime	1929.7682799004	Livetime [s]
ontime0	1955.1928120852	Sum of GTIs [s]
ontime1	1955.2338418961	Sum of GTIs [s]
ontime2	1955.2748920918	Sum of GTIs [s]
ontime3	1955.3159219027	Sum of GTIs [s]
ontime6	1955.1517618895	Sum of GTIs [s]
l2events	6496	Number of level 2 events



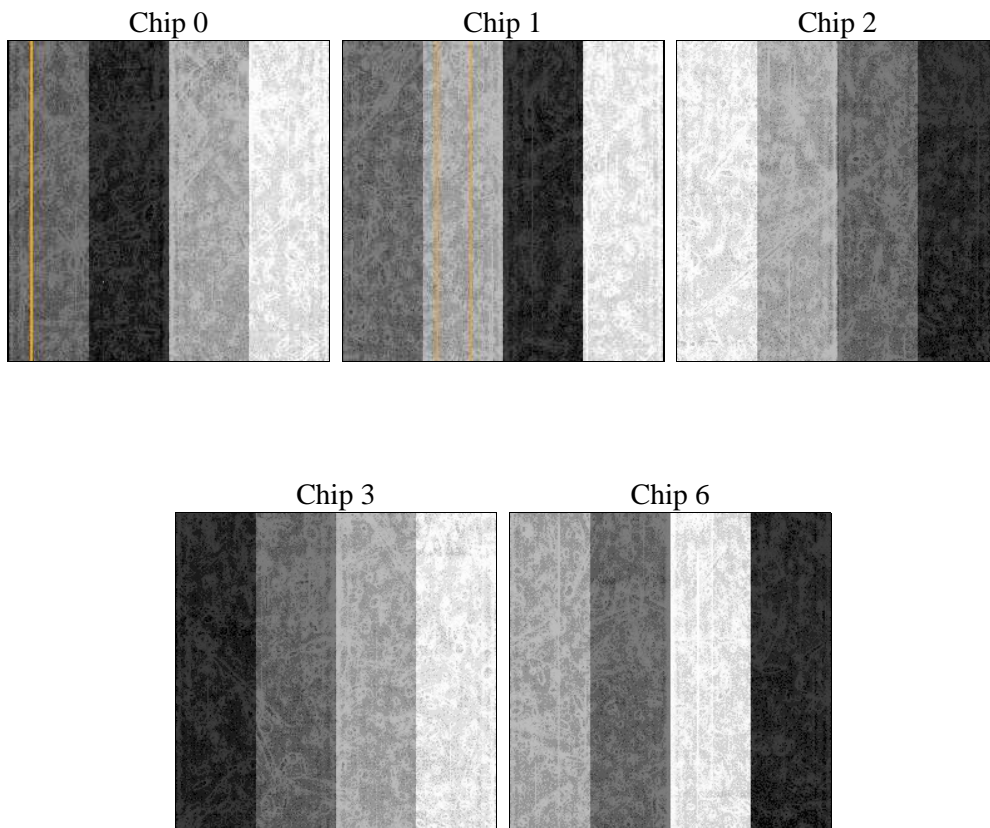
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2180.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	1955.3159219027	Sum of GTIs [s]
caldsver	4.7.1	 	ontime0	1955.1928120852	Sum of GTIs [s]
date	2016-05-22T07:38:49	Date and time of file creation	ontime1	1955.2338418961	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1955.2748920918	Sum of GTIs [s]
			ontime3	1955.3159219027	Sum of GTIs [s]
			ontime6	1955.1517618895	Sum of GTIs [s]
			l1events	62364	Number of level 1 events

2.1.4 Events

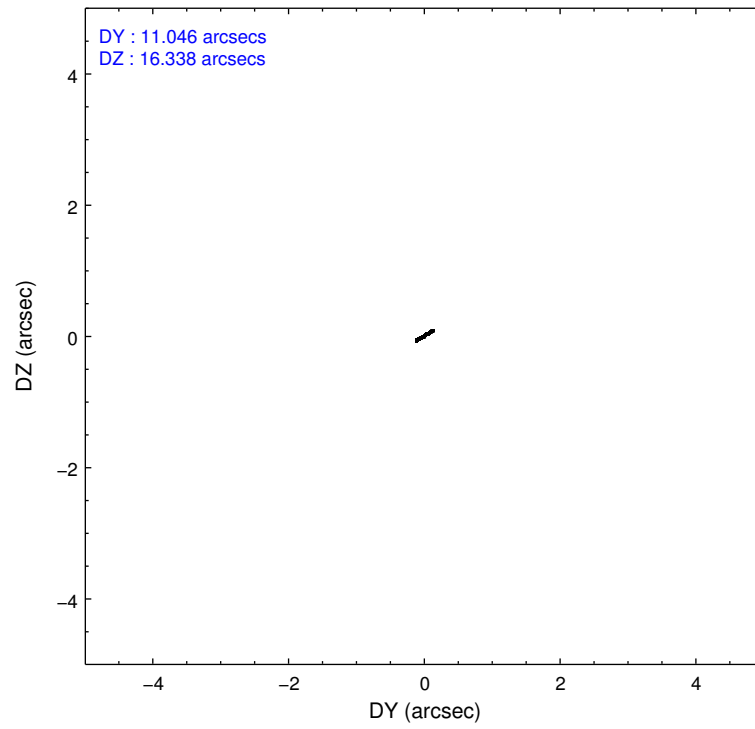
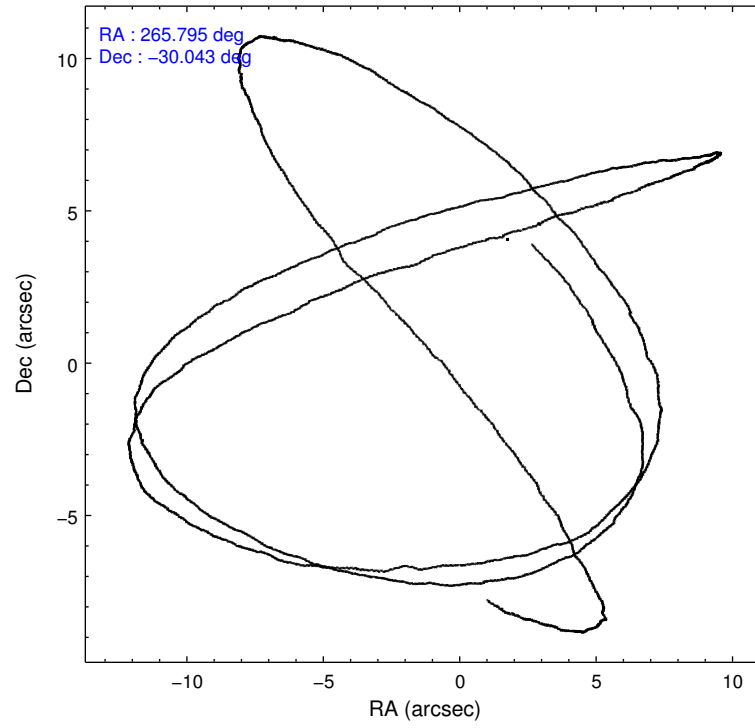
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	11359	12293	13005	12707	13000
rejected events	9868	10377	11491	11260	11474
rejected %	86%	84%	88%	88%	88%

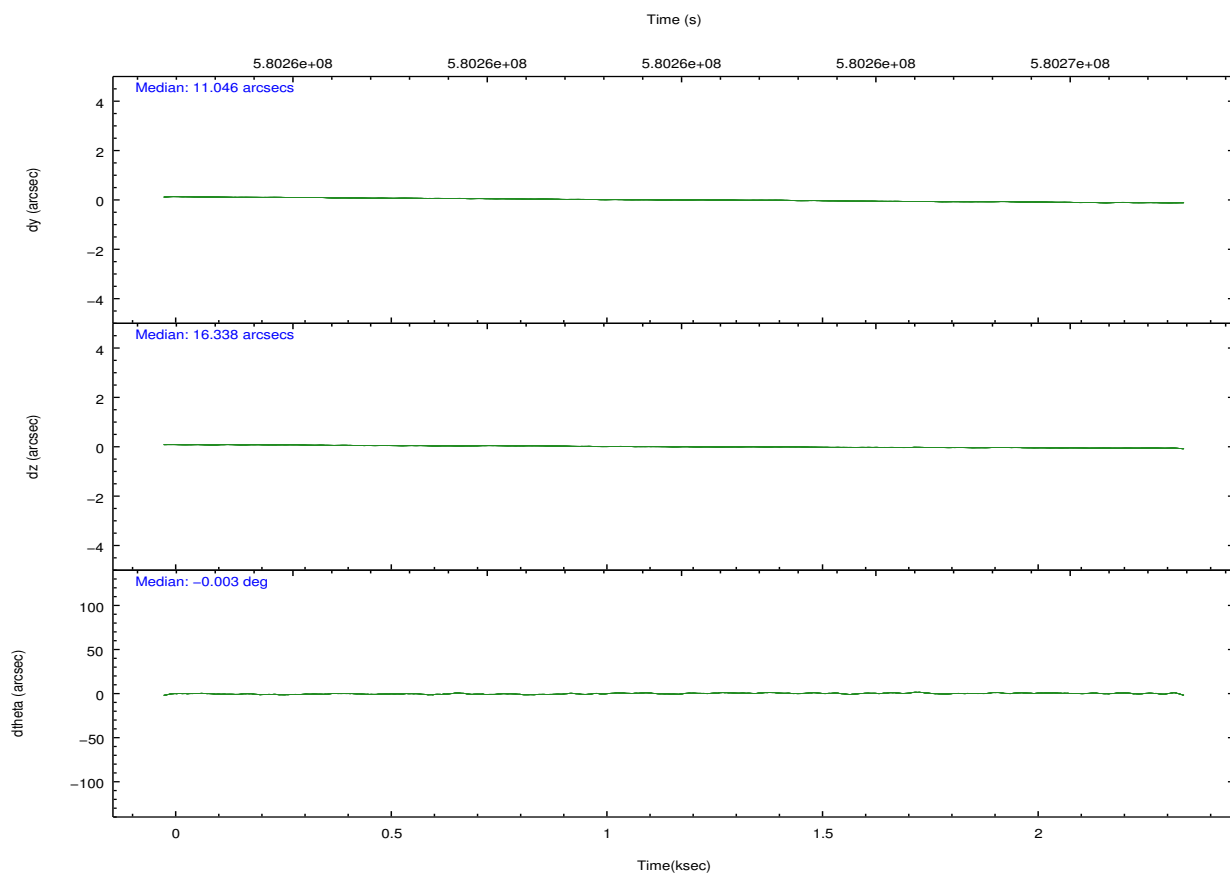
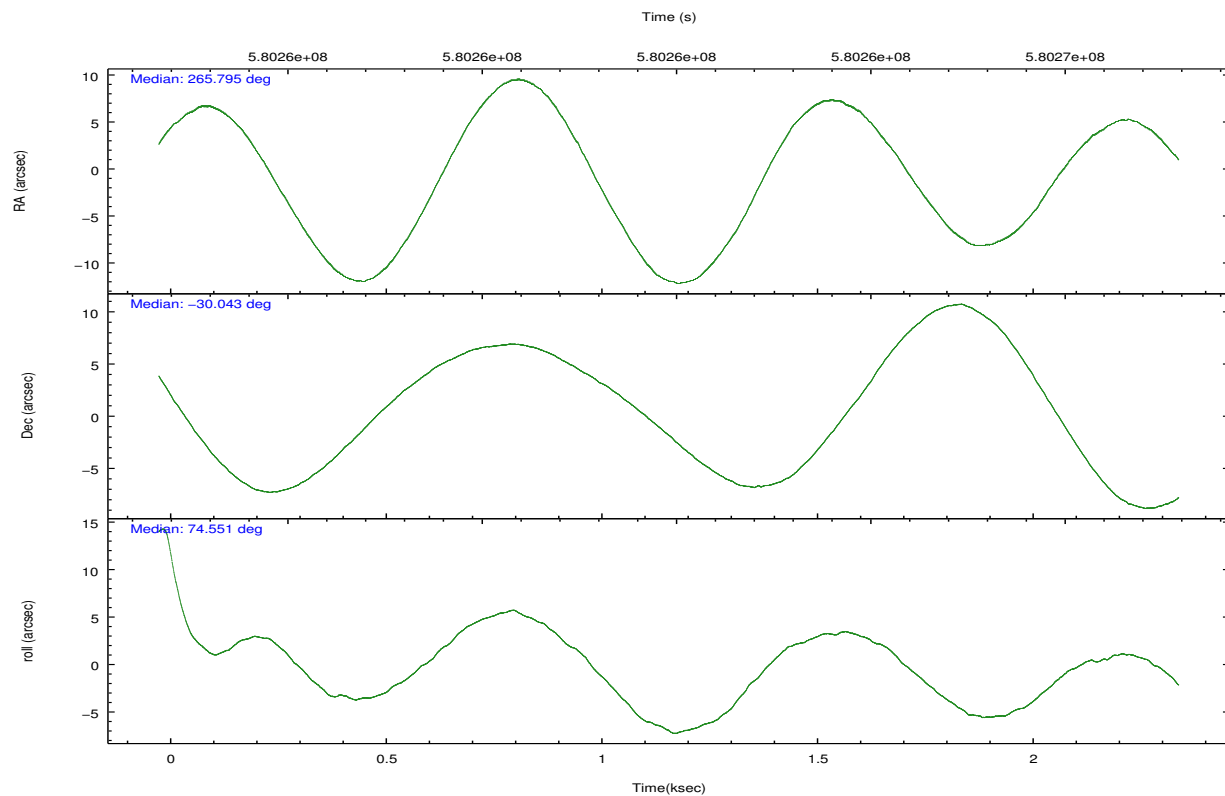
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	601	924	577	598	558
	5%	7%	4%	4%	4%
grade 1 events	6	10	9	9	11
	0%	0%	0%	0%	0%
grade 2 events	351	373	324	290	363
	3%	3%	2%	2%	2%
grade 3 events	133	150	164	139	143
	1%	1%	1%	1%	1%
grade 4 events	139	136	144	143	135
	1%	1%	1%	1%	1%
grade 5 events	460	526	483	600	510
	4%	4%	3%	4%	3%
grade 6 events	281	340	309	284	336
	2%	2%	2%	2%	2%
grade 7 events	9388	9834	10995	10644	10944
	82%	79%	84%	83%	84%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	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	265.802289	265.7942588425432	CCD I2 on	Y	Y
[deg] Pointing Dec	-30.069464	-30.04297425987984	CCD I3 on	Y	Y
[deg] Pointing Roll	74.349698	74.55438949377252	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	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	580263453.184000	580263076.69981	CCD S5 on	N	N
Observation start date	2016-05-22T00:16:25	2016-05-22T00:11:16	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	580265633.184000	580265767.32497	On-chip summing requested	N	N
Observation end date	2016-05-22T00:52:45	2016-05-22T00:56:07	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



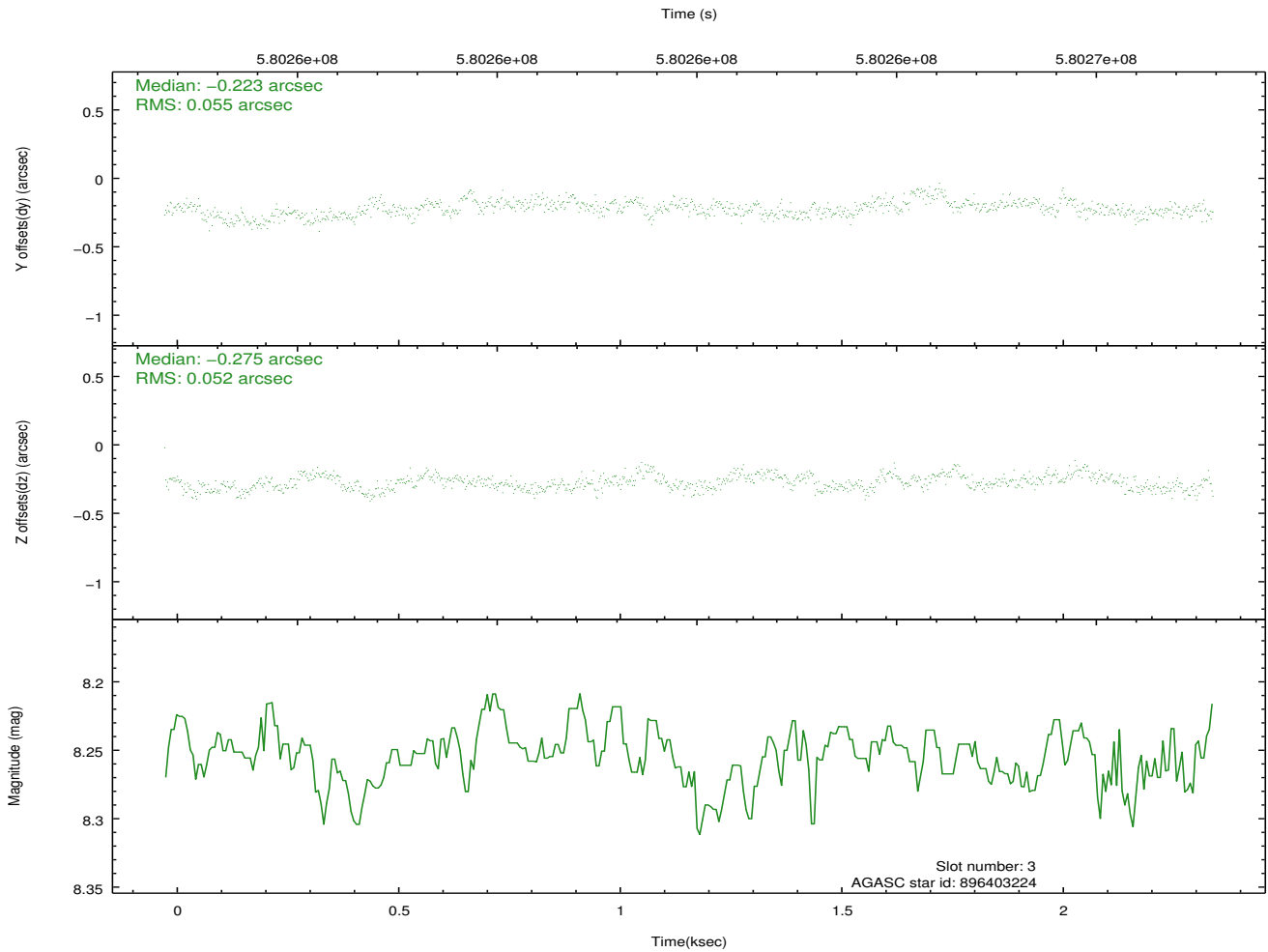
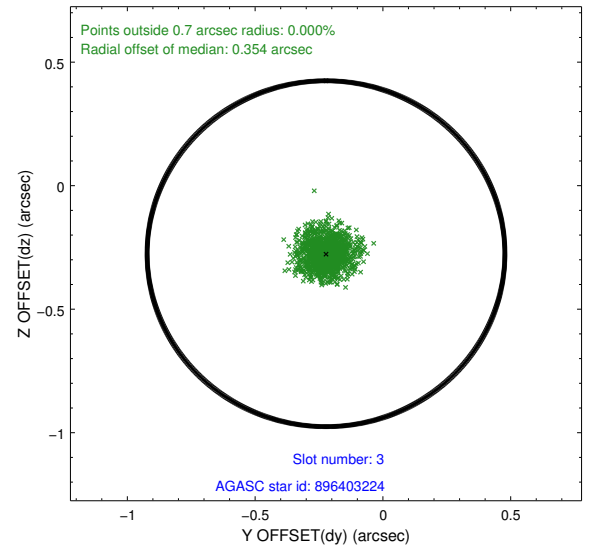
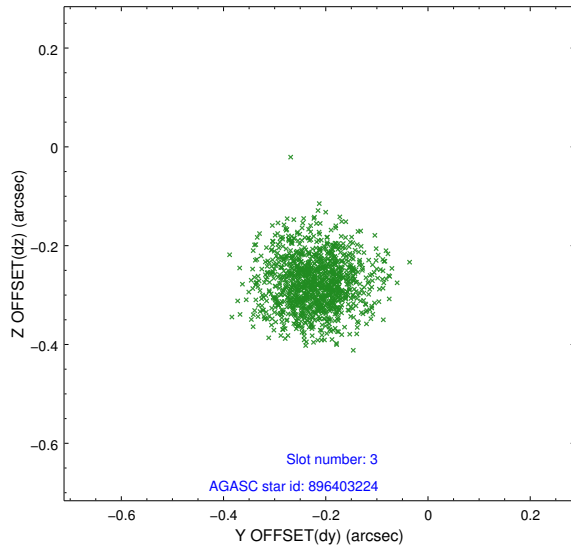


Slot Statistics

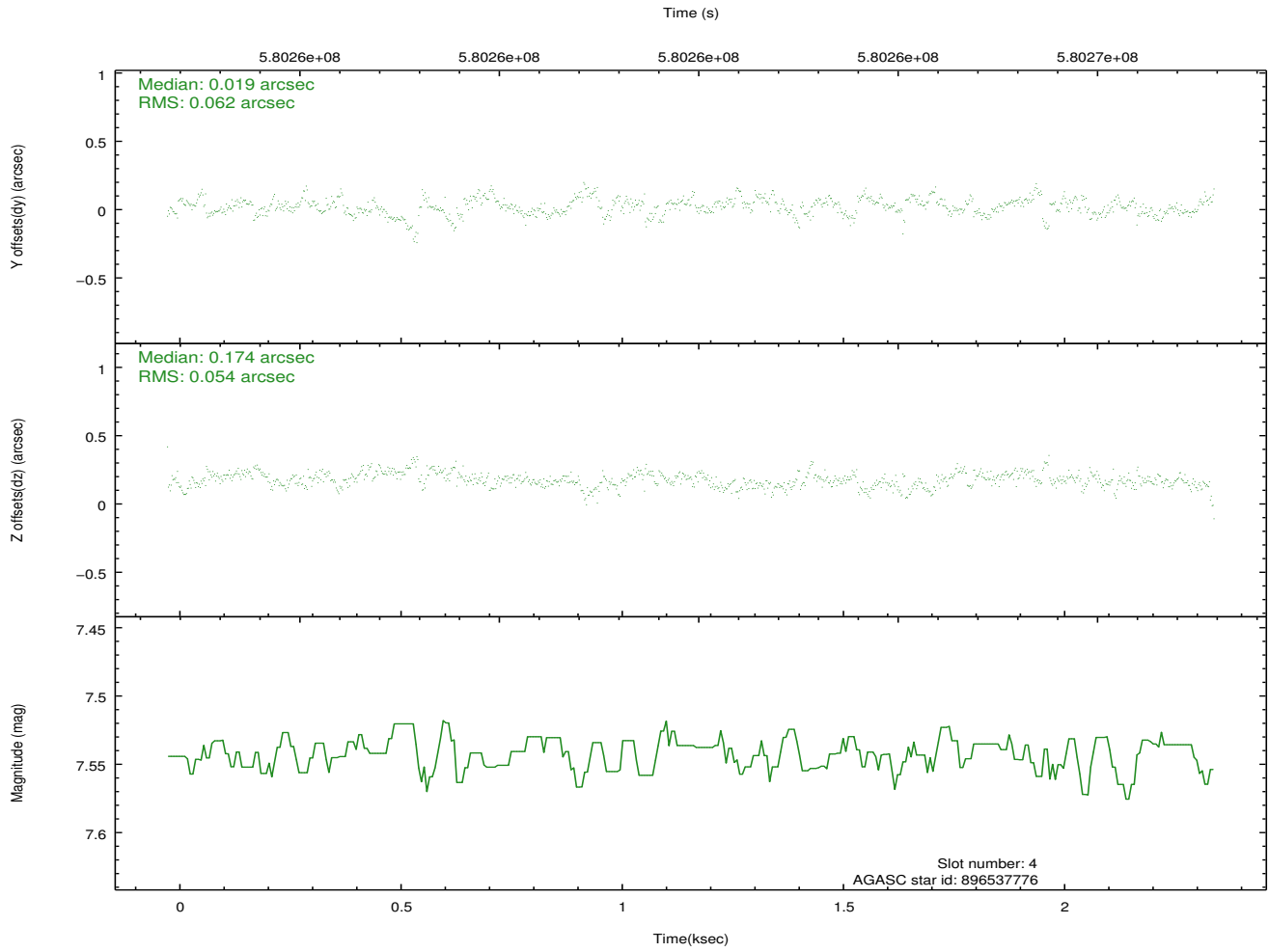
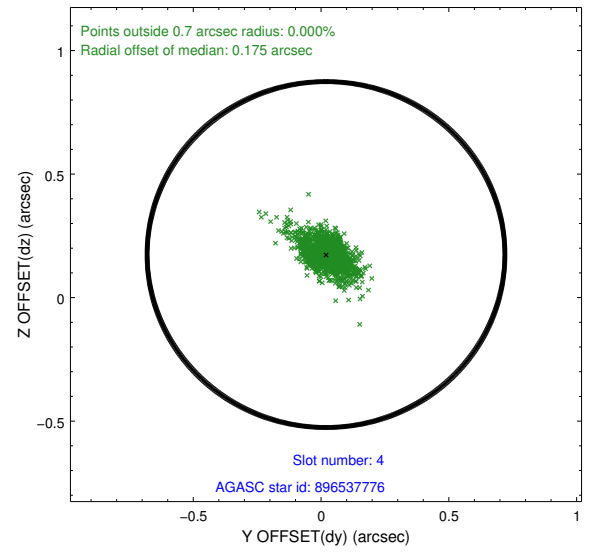
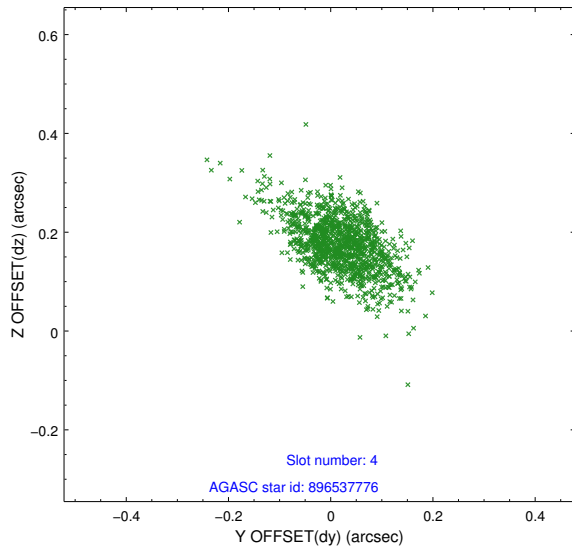
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.28	577	0.088	-0.097	0.015	0.022	0.000000	0.000000	928.62	-840.07
1	FID		ACIS-I-5	7.26	577	-0.305	0.052	0.009	0.016	0.000000	0.000000	-1818.39	1056.15
2	FID		ACIS-I-6	7.26	577	0.125	0.114	0.009	0.016	0.000000	0.000000	391.18	1703.86
3	GUIDE	used	896403224	8.25	1155	-0.223	-0.275	0.082	0.132	265.612825	-29.438915	2025.29	1184.54
4	GUIDE	used	896537776	7.54	1155	0.019	0.174	0.080	0.149	266.655684	-29.665673	2113.11	-2179.19
5	GUIDE	used	966790944	8.77	1154	-0.076	-0.232	0.079	0.136	265.185568	-30.443091	-1814.13	1477.37
6	GUIDE	used	966924920	8.08	1155	0.030	0.038	0.110	0.163	265.875401	-30.176961	-312.08	-321.55
7	GUIDE	used	966919304	8.42	1153	0.241	0.294	0.074	0.121	265.660763	-30.717261	-2363.28	-206.89

2.4 Star Slots

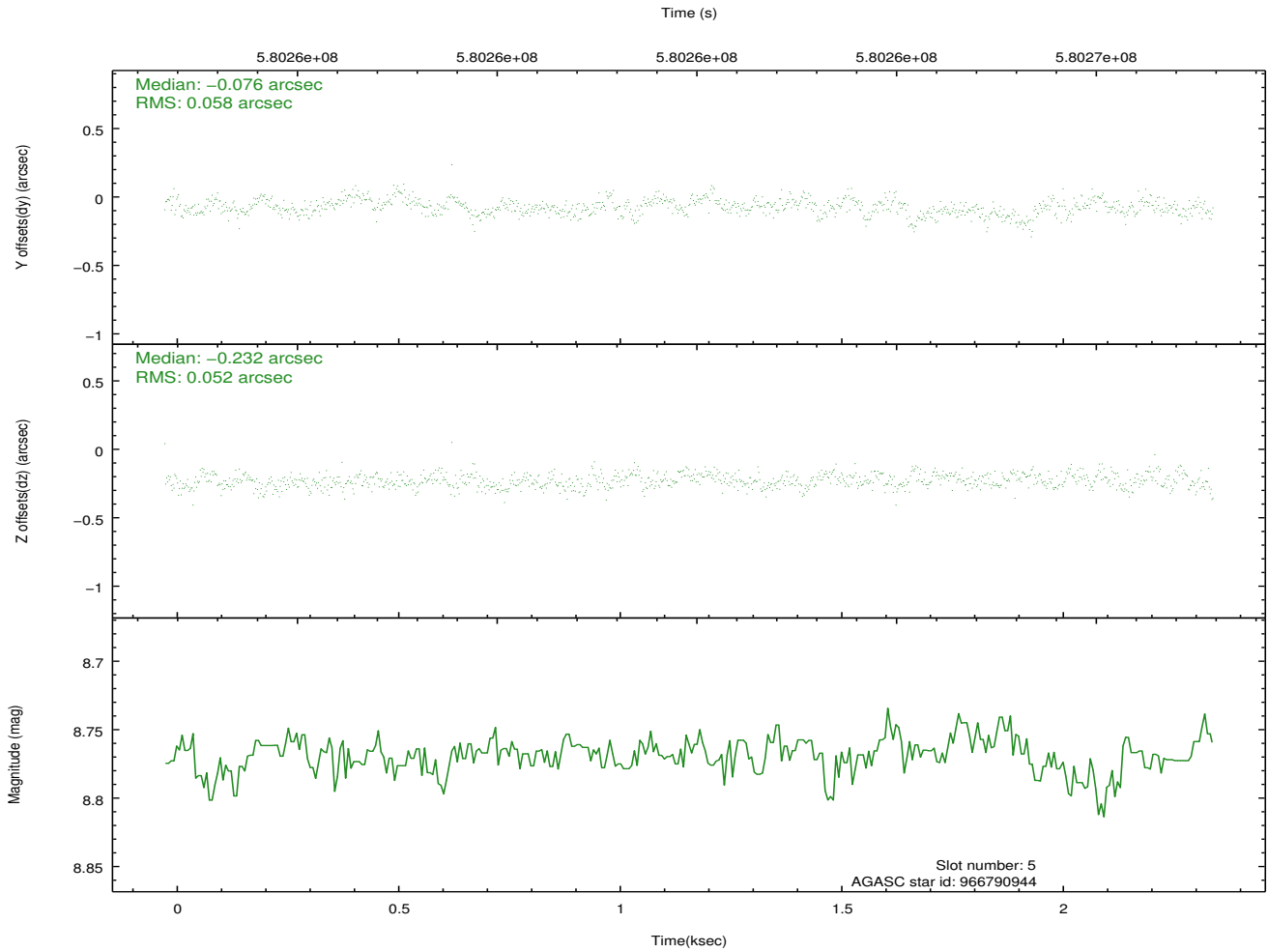
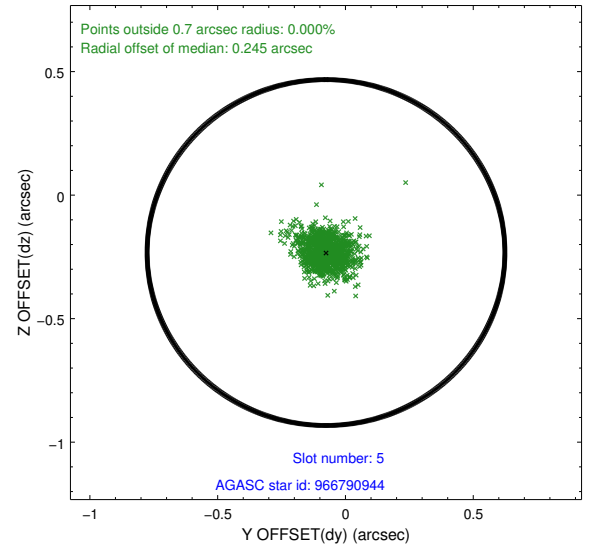
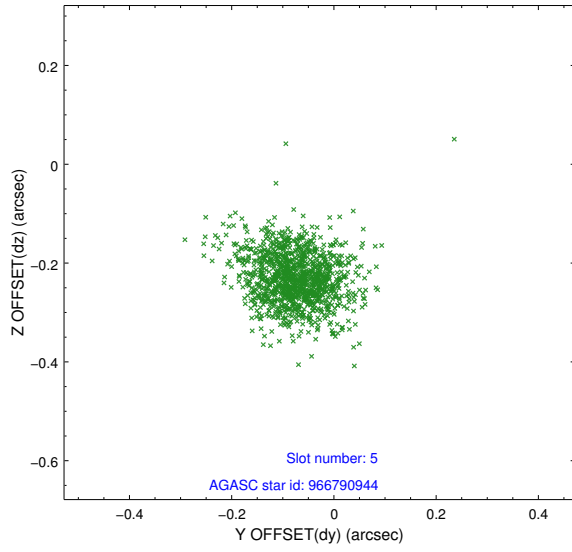
2.4.1 Slot 3



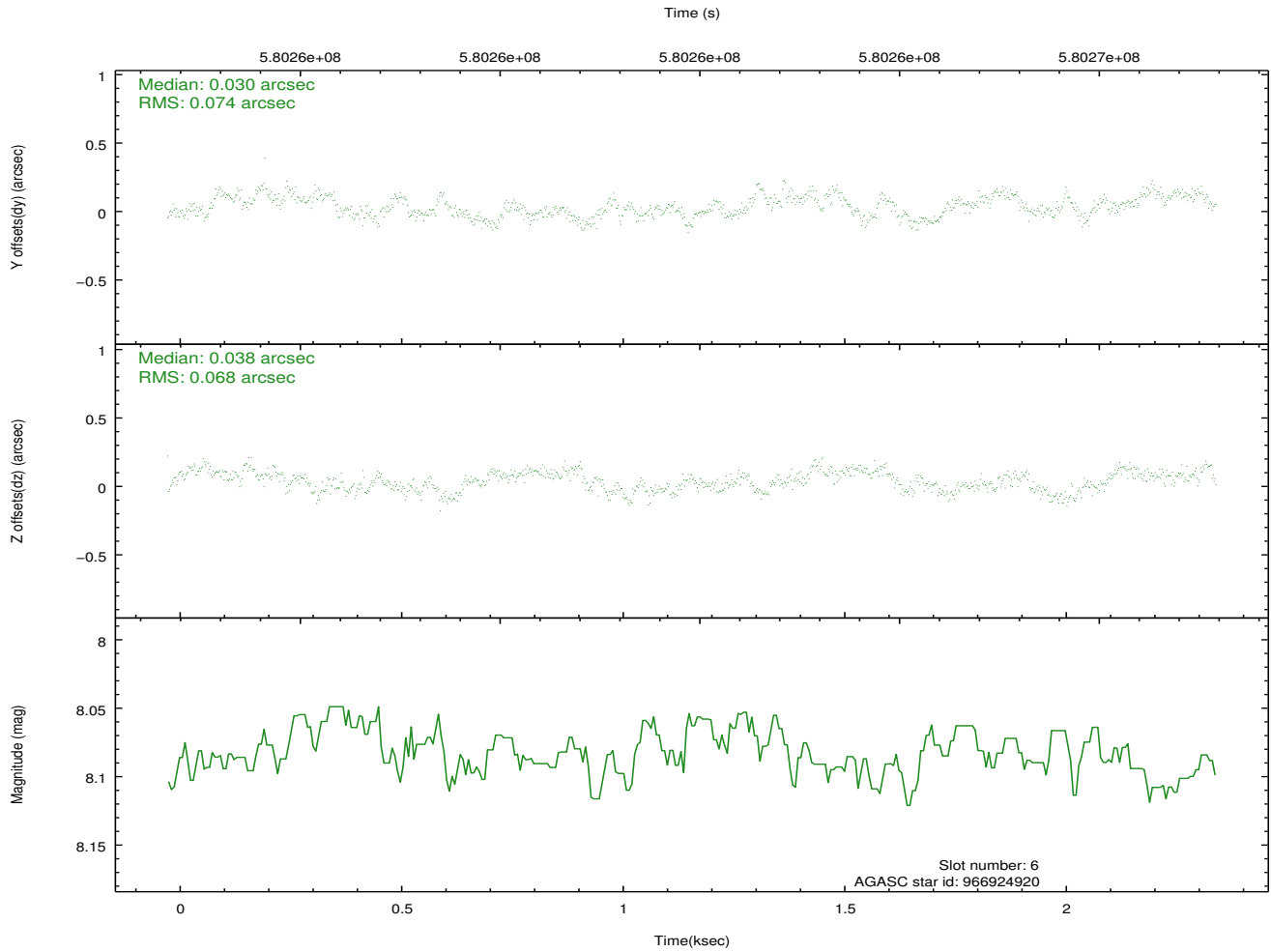
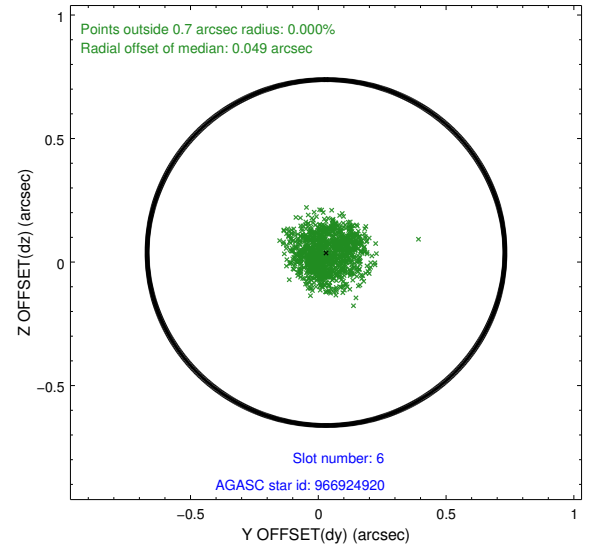
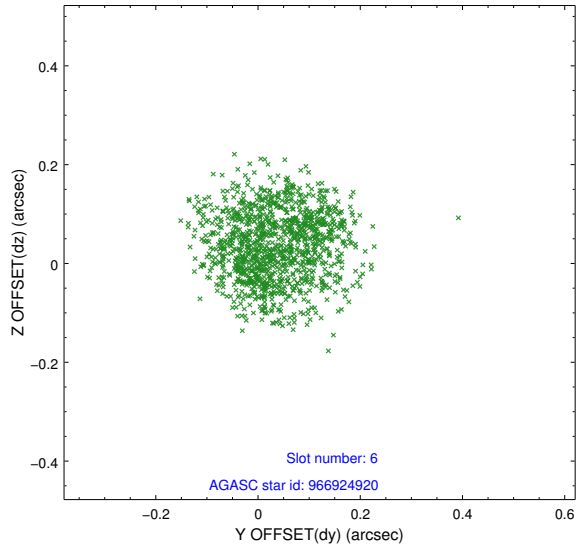
2.4.2 Slot 4



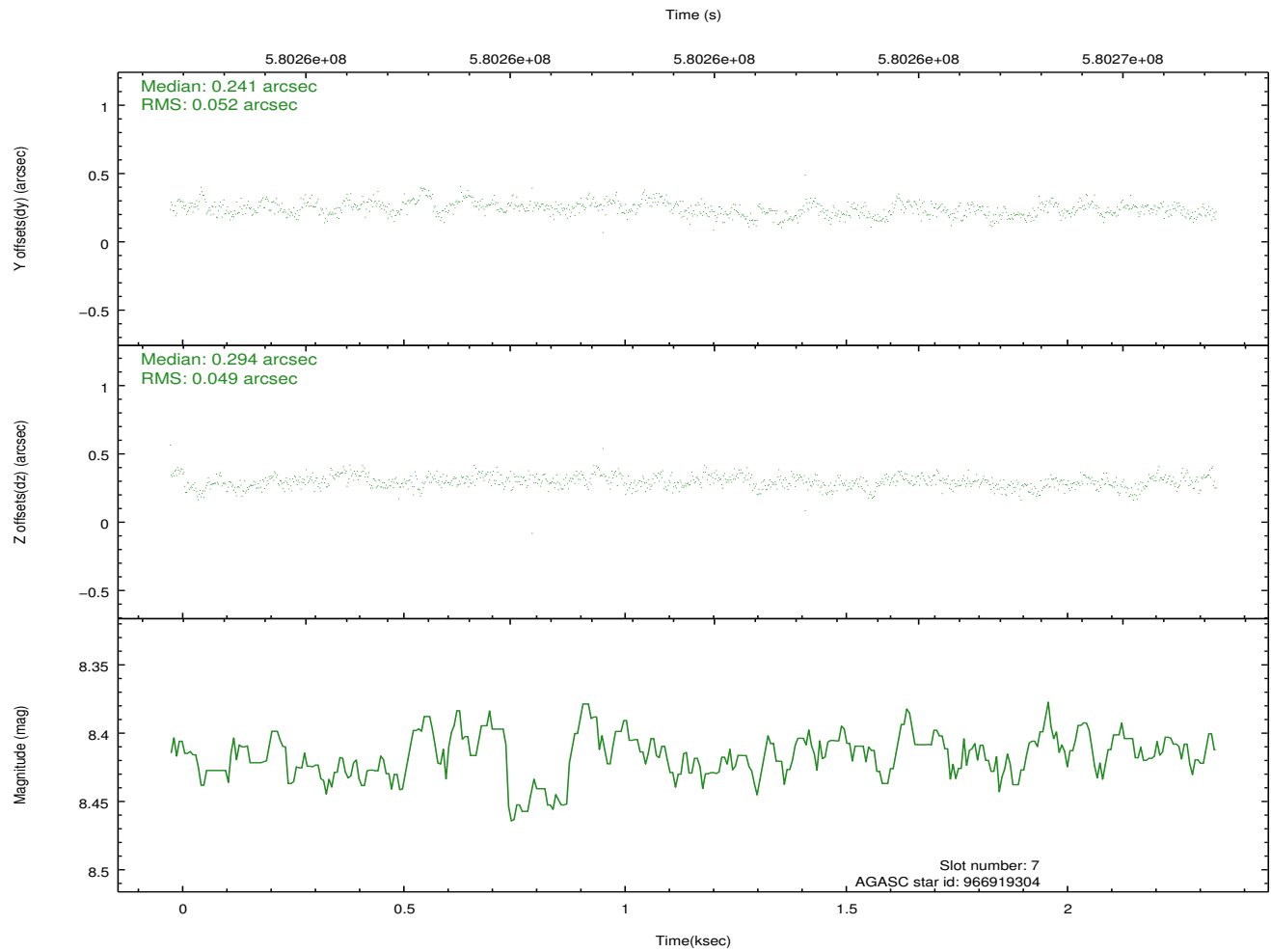
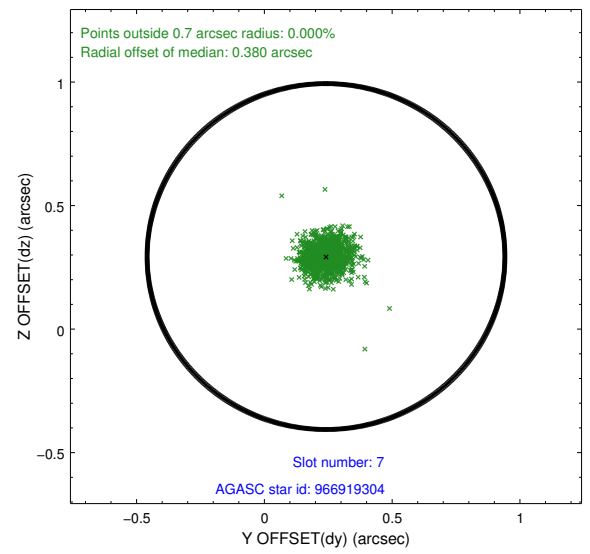
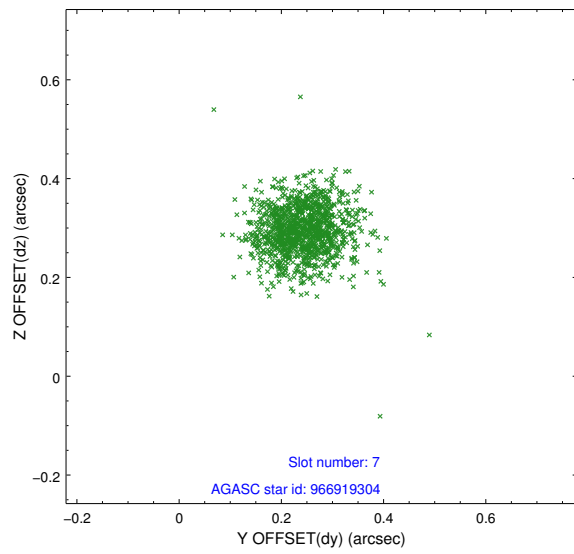
2.4.3 Slot 5



2.4.4 Slot 6

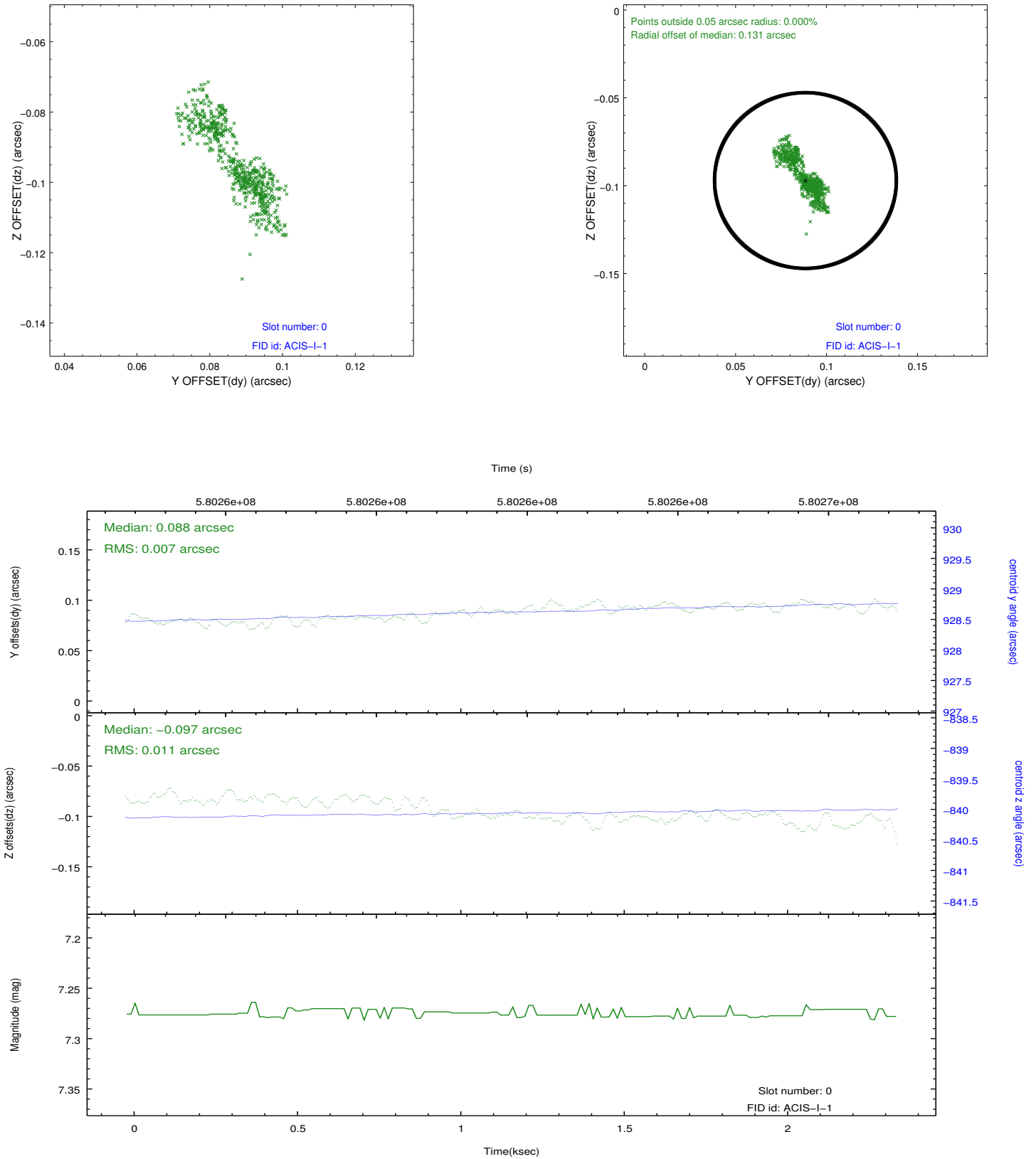


2.4.5 Slot 7

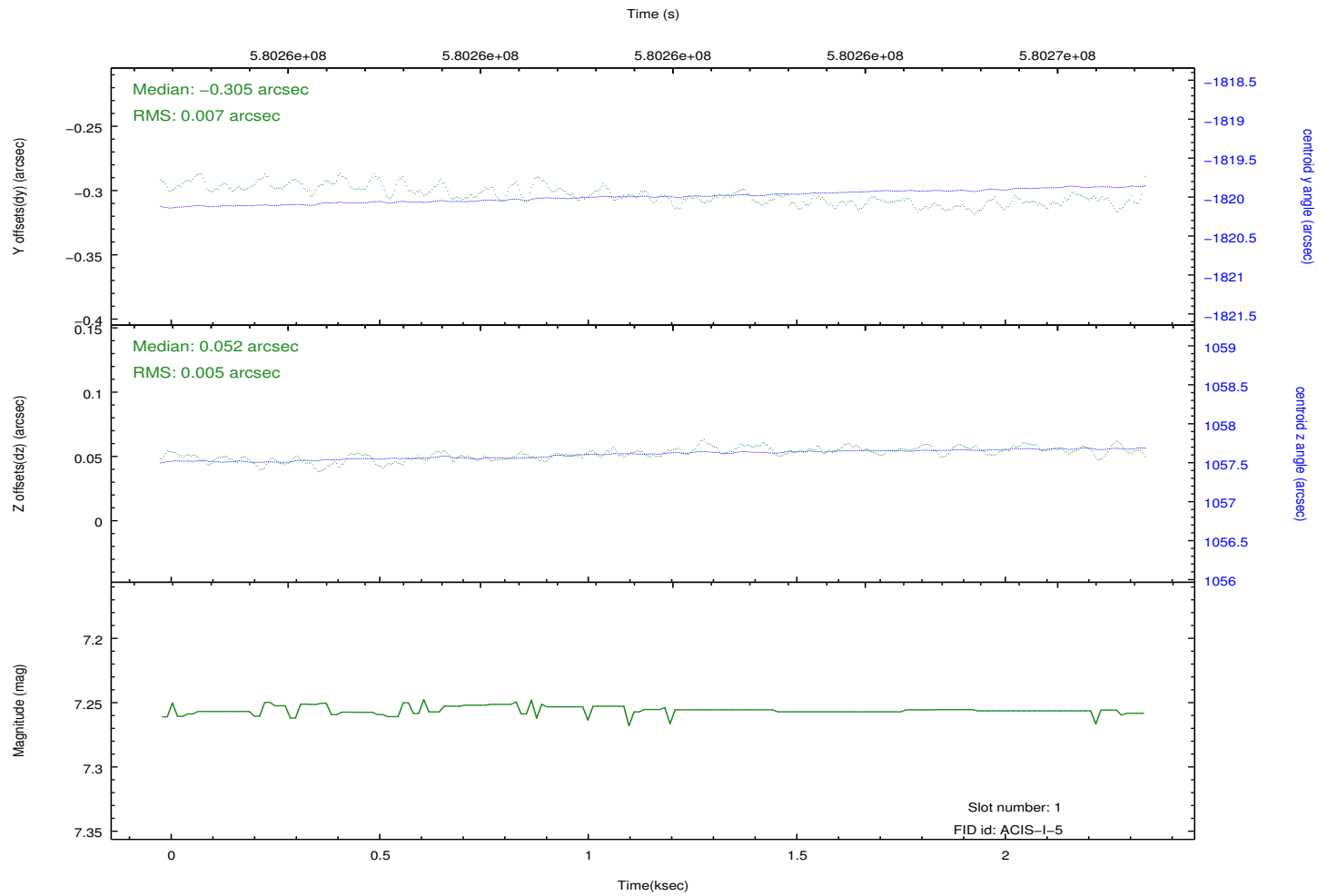
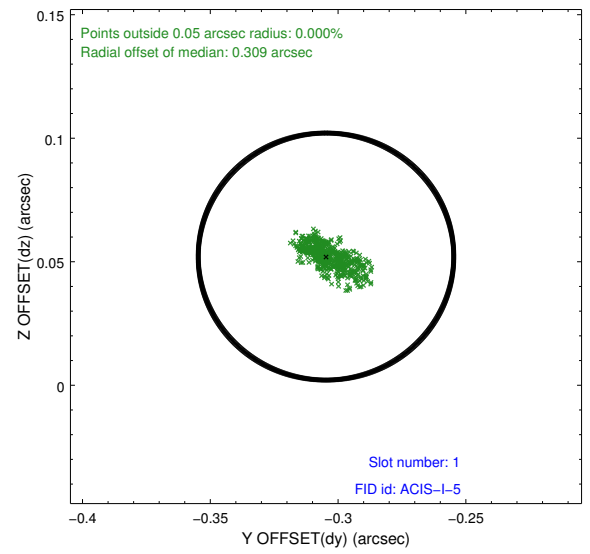
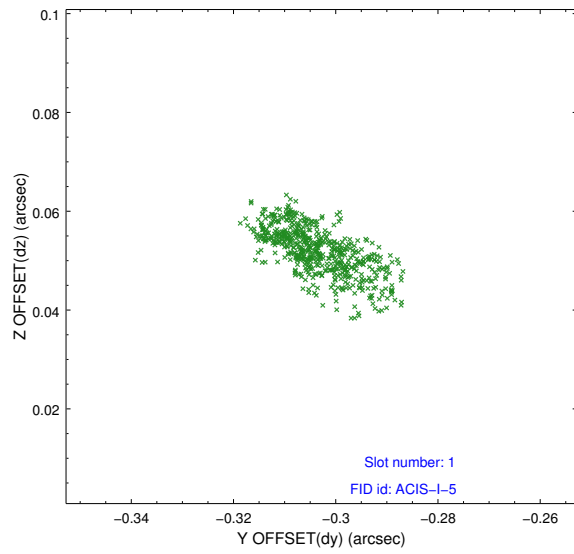


2.5 FID Slots

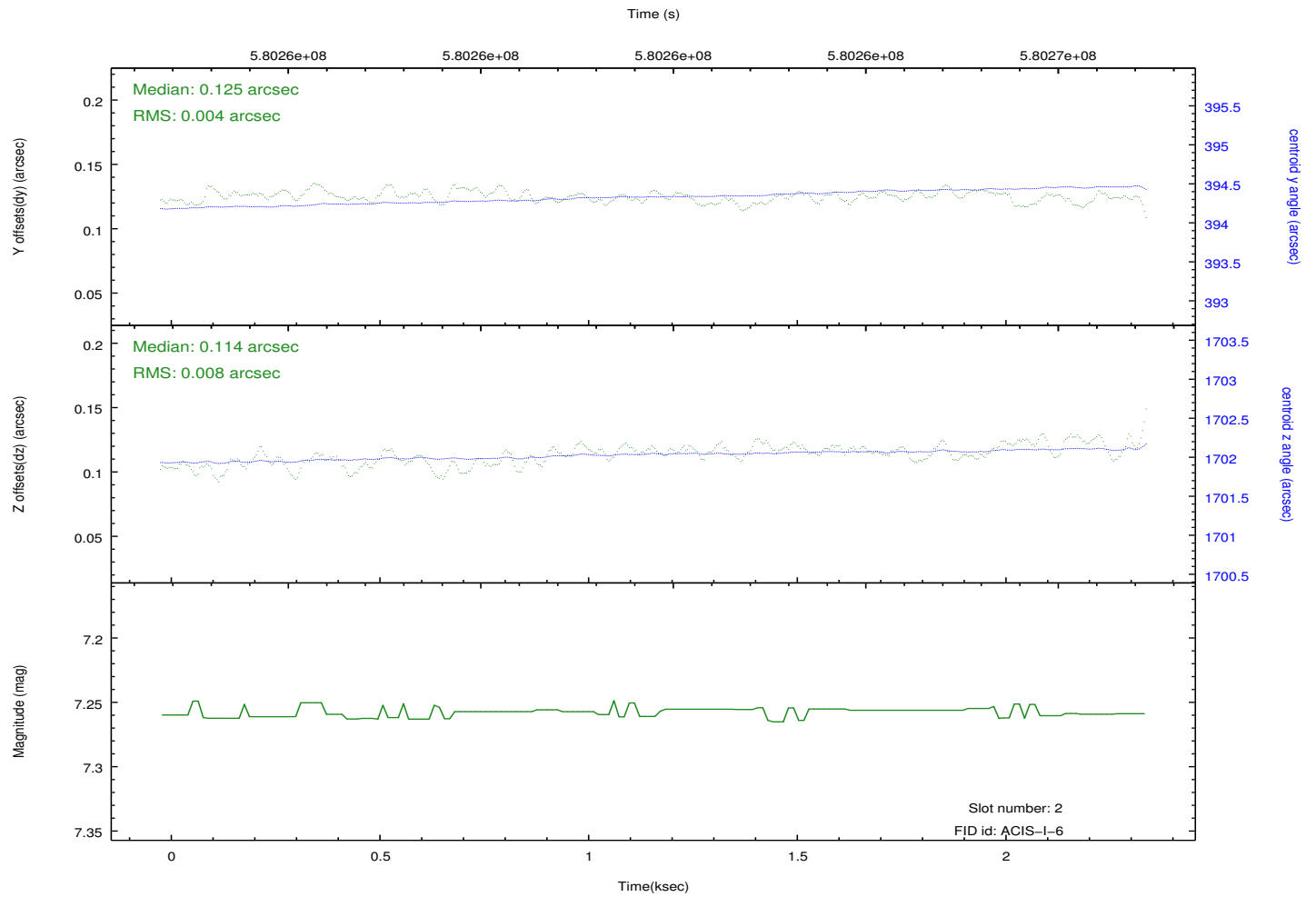
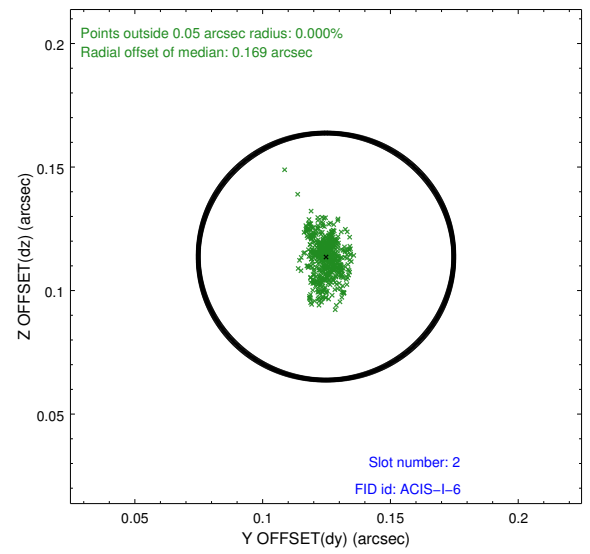
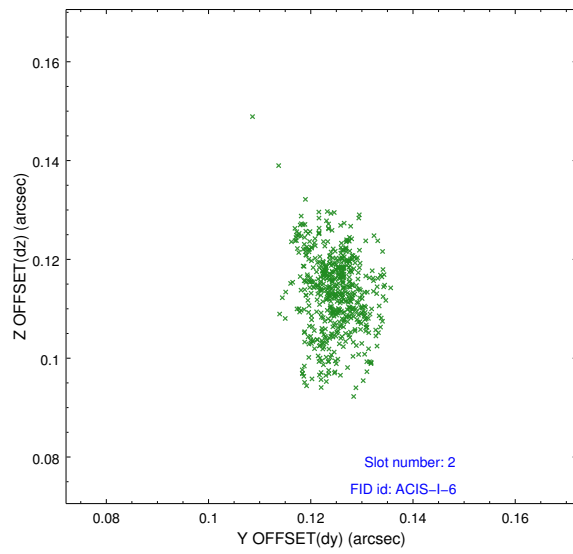
2.5.1 Slot 0



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)	2016.05.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.9553159219027

A.2 Comments