

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 20816 - L2 Version 1
Chandra X-Ray Center

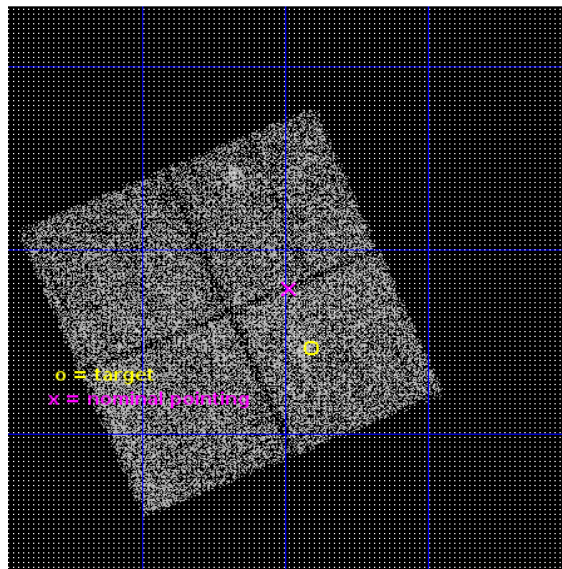
L2 Processing Date : Oct 21 2017

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1 Front

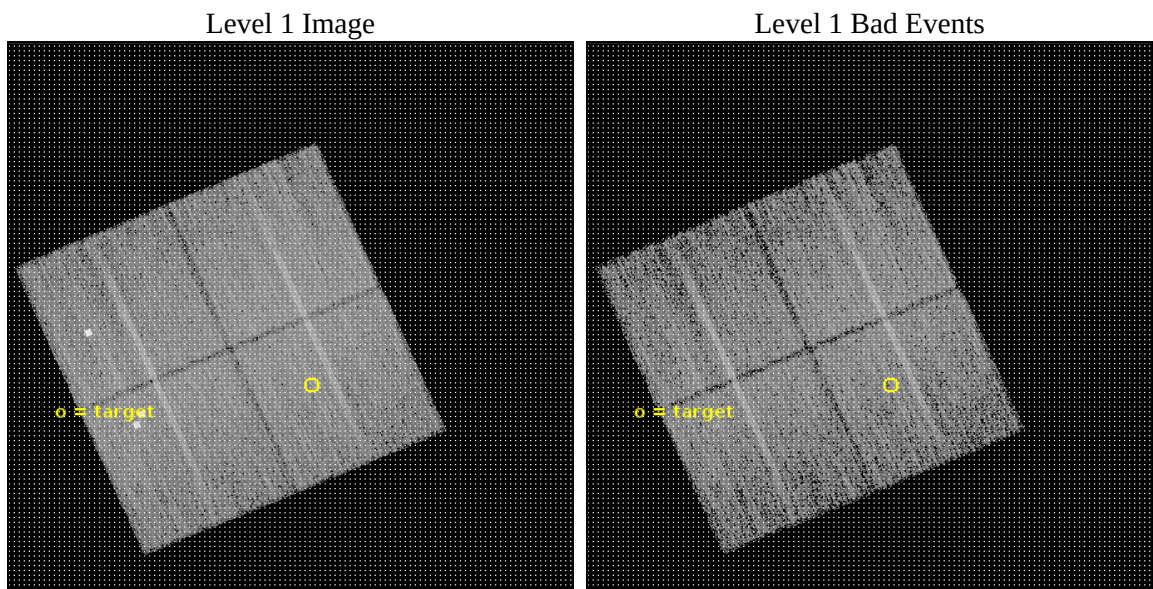
seq_num	801669	Sequence number
obs_id	20816	Observation id
title	Determining the Universality of f _{gas} at High Redshift	Proposal ti
observer	Mark Brodwin	Principal investigator
object	MOO J0319-0025	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	49.851667	Observer's specified target RA [deg]
dec_targ	-0.4225	Observer's specified target Dec [deg]
ra_nom	49.871099578022	Nominal RA [deg]
dec_nom	-0.36870646930629	Nominal Dec [deg]
roll_nom	66.708827639584	Nominal Roll [deg]
revision	1	Processing version of data
ontime	18079.200139165	Sum of GTIs [s]
livetime	17842.982079633	Livetime [s]
ontime0	18072.918018699	Sum of GTIs [s]
ontime1	18076.059068918	Sum of GTIs [s]
ontime2	18079.200139165	Sum of GTIs [s]
ontime3	18079.200139165	Sum of GTIs [s]
l2events	47087	Number of level 2 events



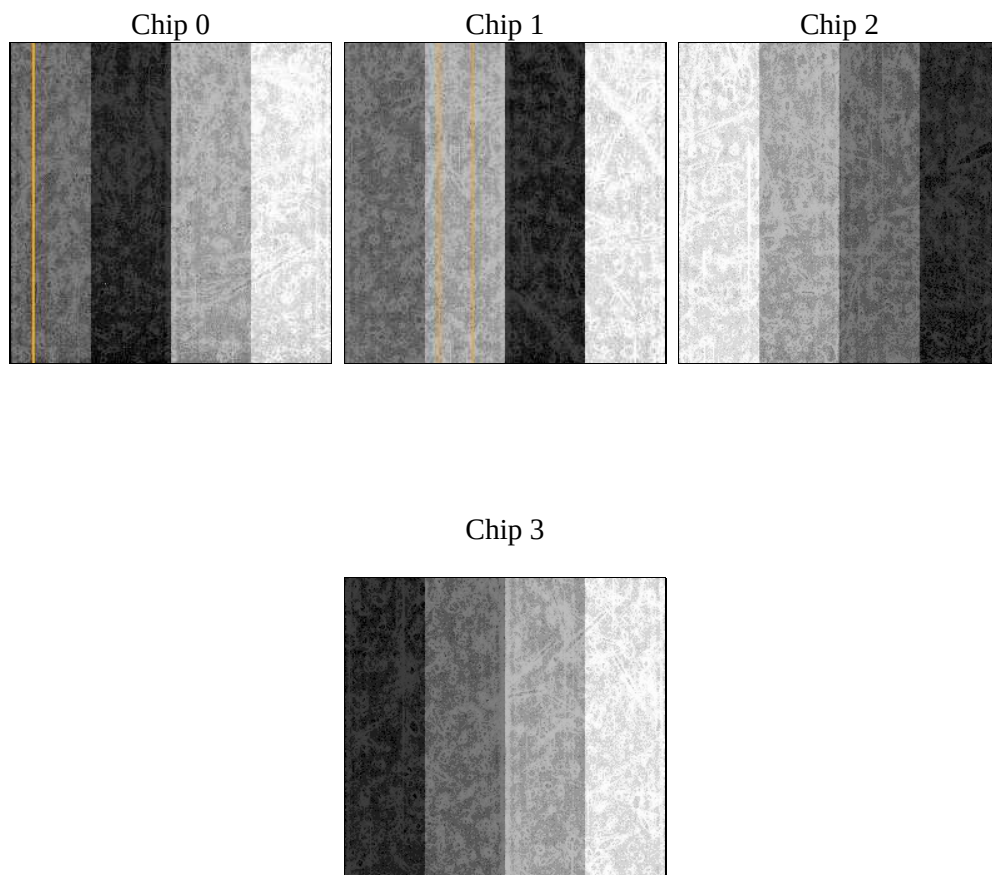
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	18000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	18079.200139165	Sum of GTIs [s]
caldsver	4.7.6	 	ontime0	18072.918018699	Sum of GTIs [s]
date	2017-10-21T18:30:54	Date and time of file creation	ontime1	18076.059068918	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	18079.200139165	Sum of GTIs [s]
			ontime3	18079.200139165	Sum of GTIs [s]
			l1events	498607	Number of level 1 events

2.1.4 Events

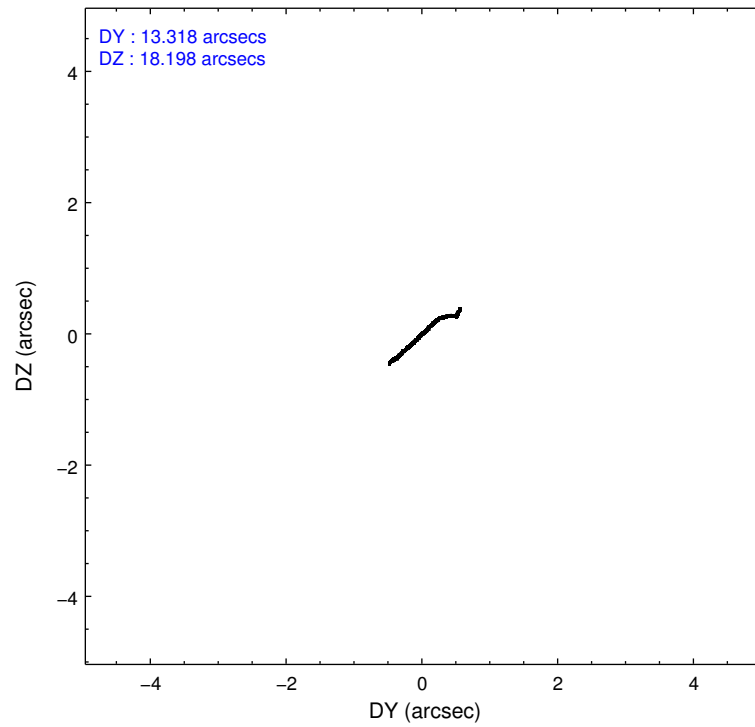
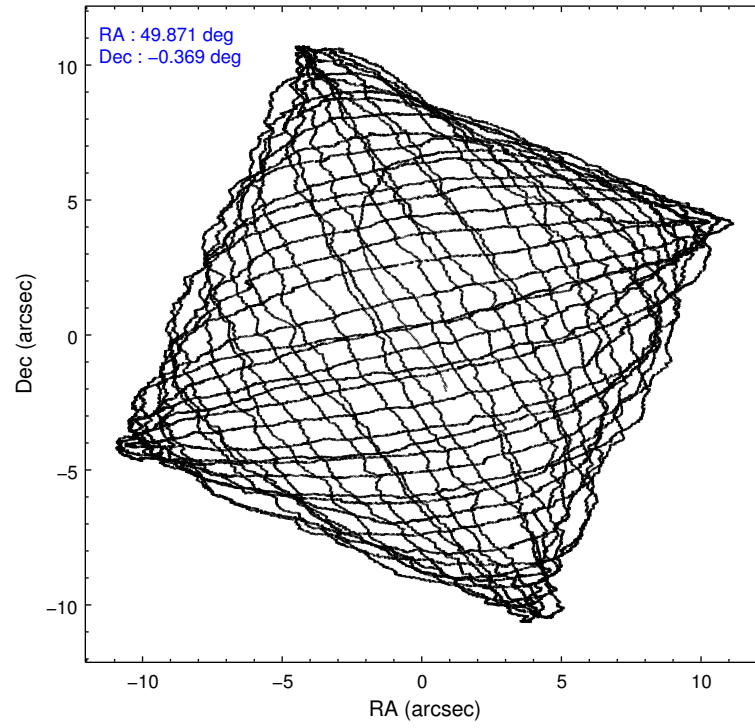
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	120740	127279	128578	122010
rejected events	101554	103132	114731	108347
rejected %	84%	81%	89%	88%

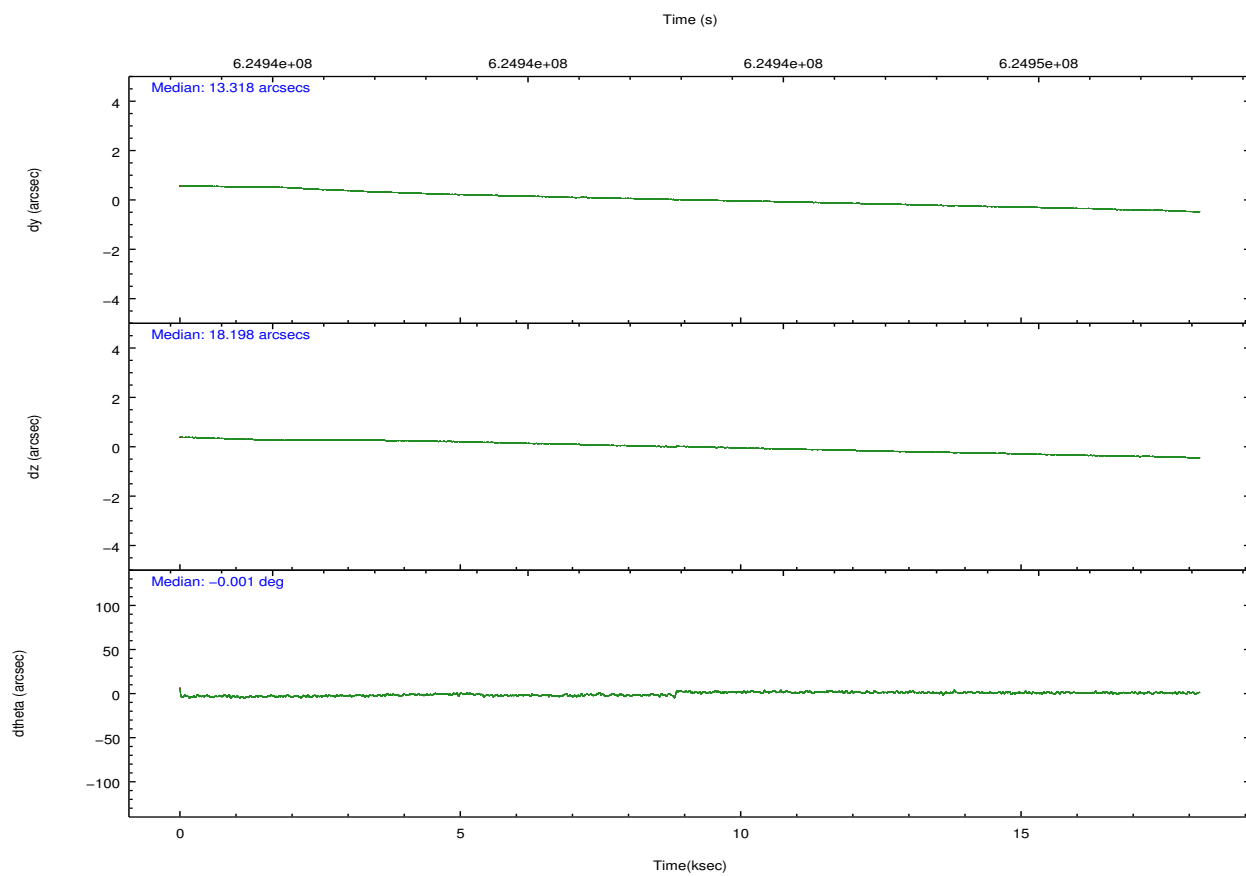
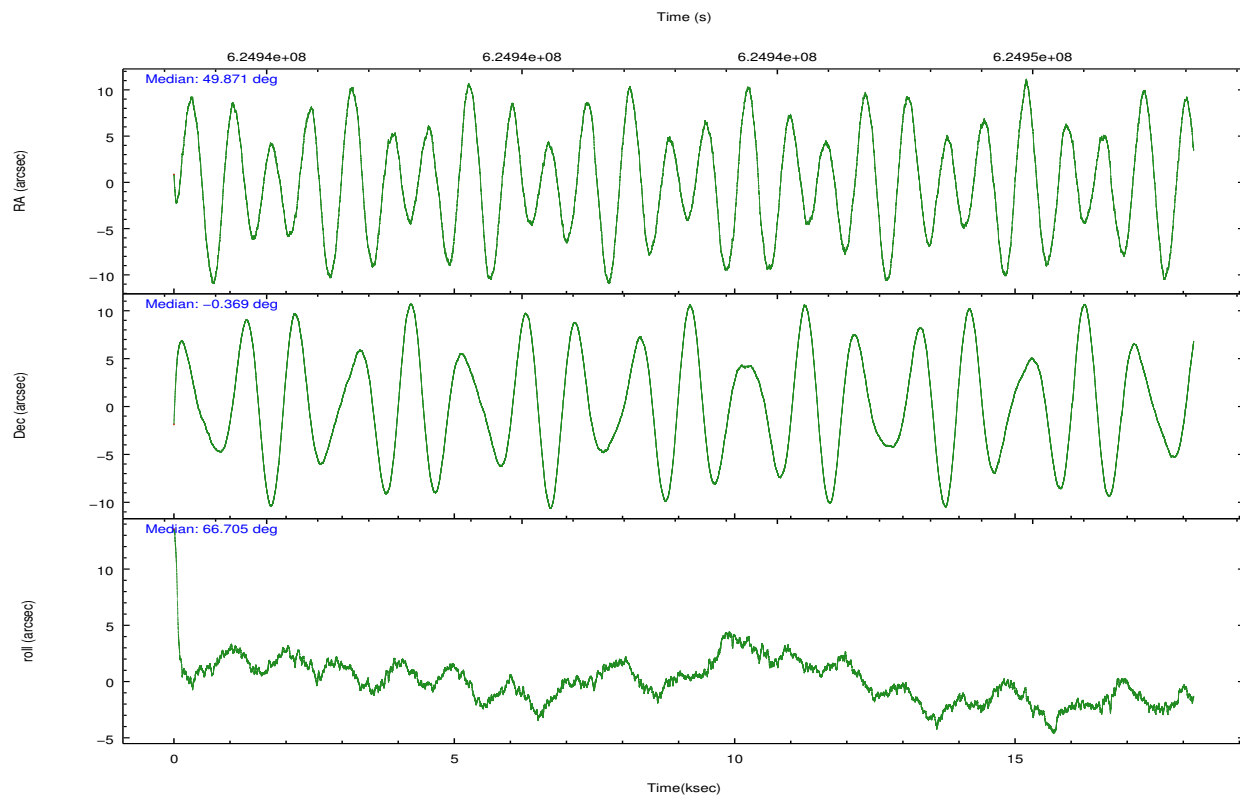
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	4604	8575	4944	4854
	3%	6%	3%	3%
grade 1 events	53	105	68	59
	0%	0%	0%	0%
grade 2 events	8873	9311	3322	2979
	7%	7%	2%	2%
grade 3 events	1431	1430	1373	1446
	1%	1%	1%	1%
grade 4 events	1333	1303	1406	1406
	1%	1%	1%	1%
grade 5 events	5479	5444	5259	5873
	4%	4%	4%	4%
grade 6 events	2952	3539	2807	2985
	2%	2%	2%	2%
grade 7 events	96015	97572	109399	102408
	79%	76%	85%	83%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	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	49.874397	49.87109957802235	CCD I2 on	Y	Y
[deg] Pointing Dec	-0.396112	-0.3687064693062879	CCD I3 on	Y	Y
[deg] Pointing Roll	66.500152	66.7088276395841	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	N
[mm] SIM translation stage pos	-225.840463	-225.8433433320239	CCD S3 on	N	N
[mm] SIM translation stage offset	-7.752	-7.749109670905796	CCD S4 on	N	N
[s] Observation start time (MET)	624934249.184000	624932778.13697	CCD S5 on	N	N
Observation start date	2017-10-21T00:49:40	2017-10-21T00:26:18	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	624952249.184000	624953477.50068	On-chip summing requested	N	N
Observation end date	2017-10-21T05:49:40	2017-10-21T06:11:17	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



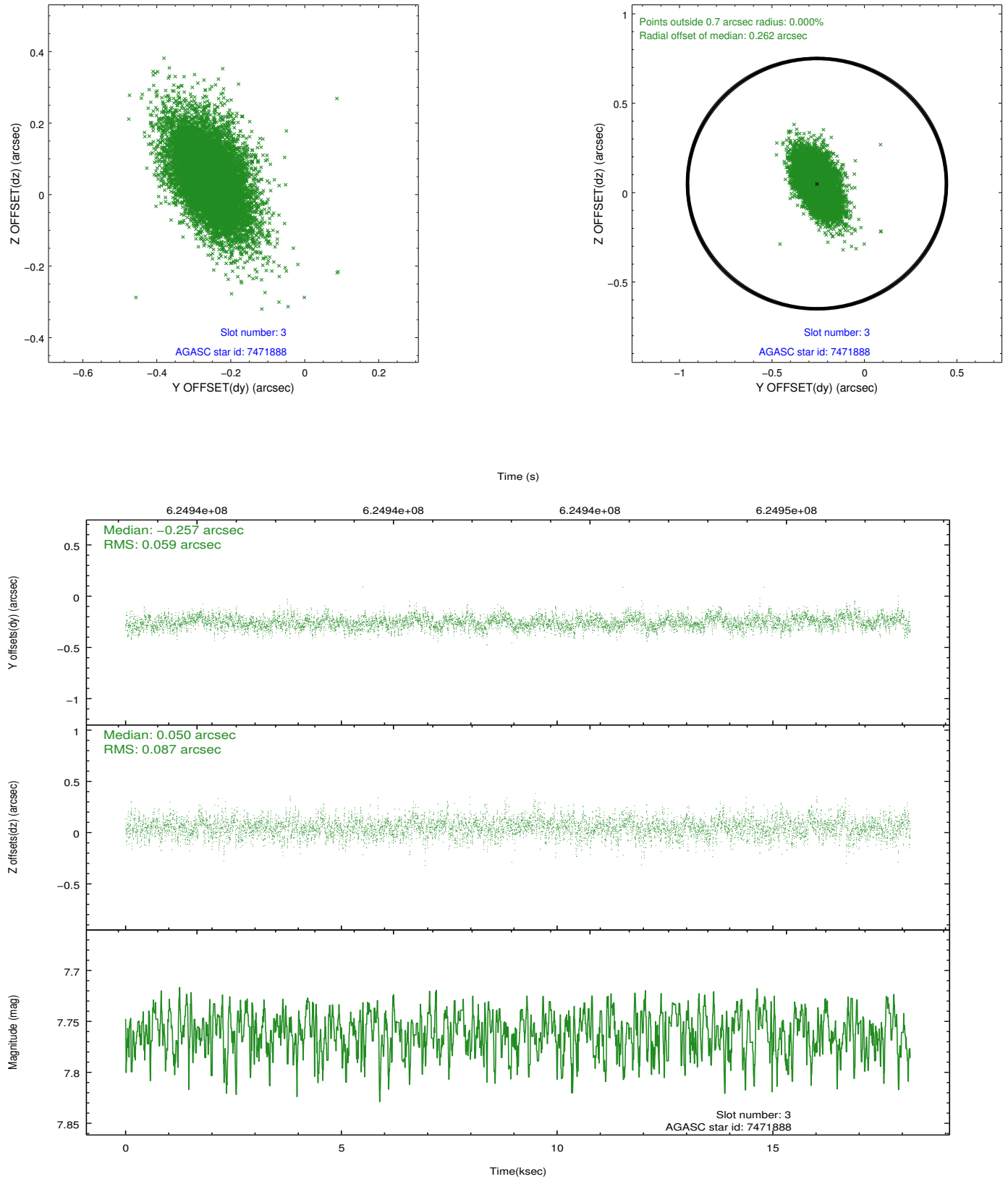


Slot Statistics

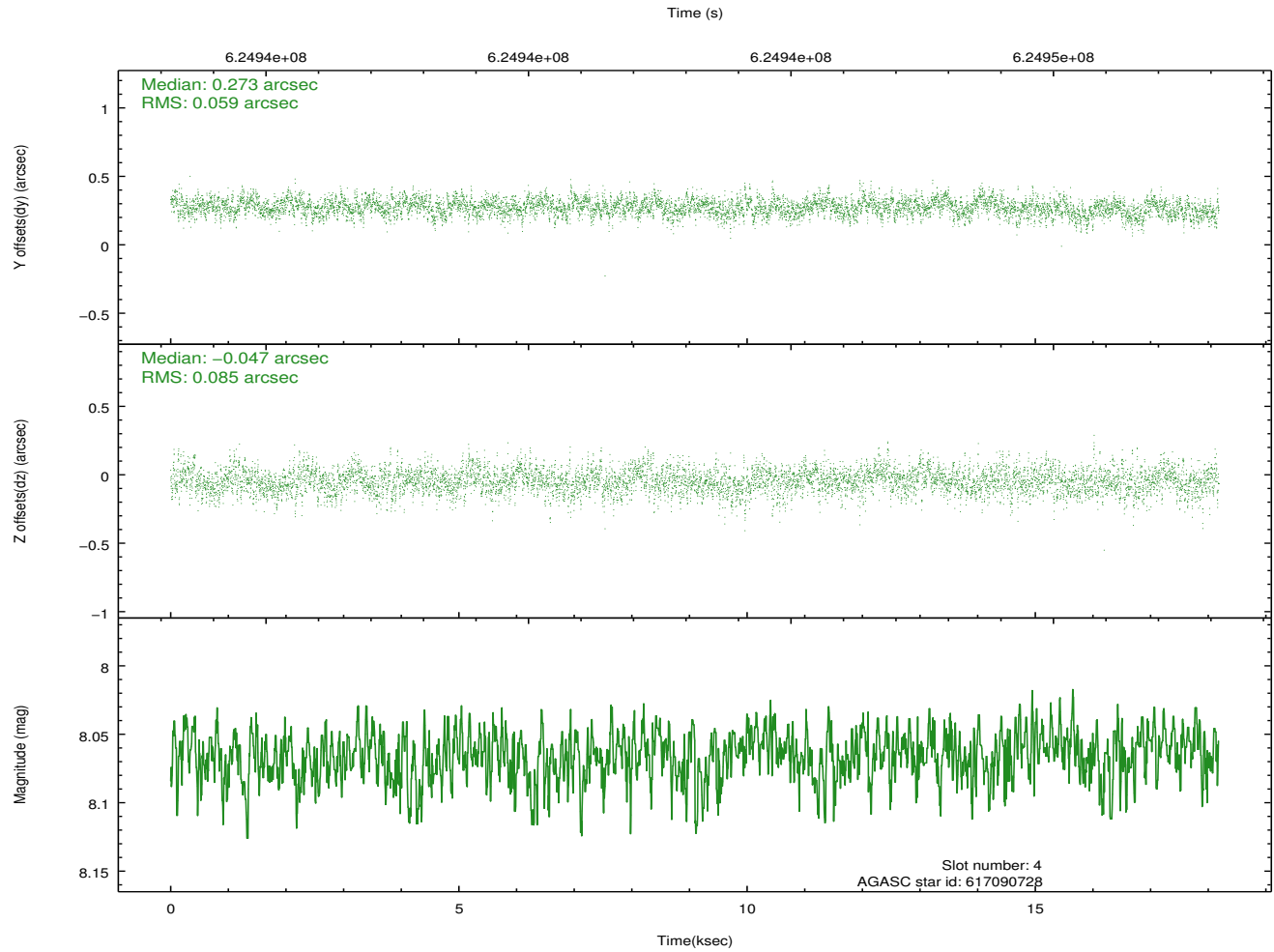
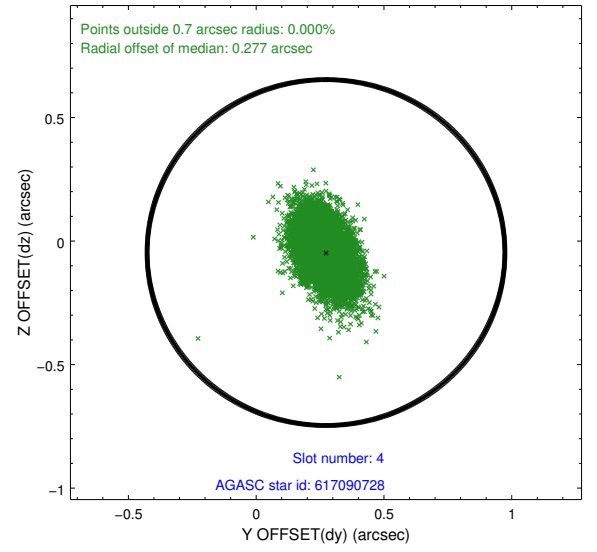
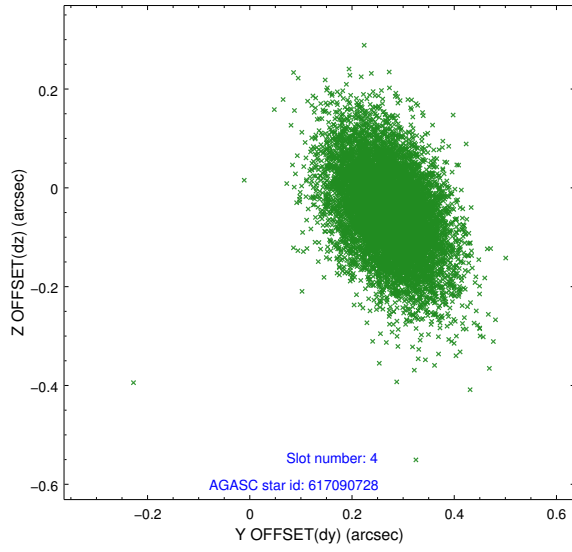
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-2	7.06	4435	-0.357	-0.193	0.011	0.021	0.000000	0.000000	-768.94	-1006.46
1	FID		ACIS-I-4	7.03	4434	0.181	0.272	0.014	0.023	0.000000	0.000000	2145.55	899.92
2	FID		ACIS-I-6	7.14	4435	0.074	-0.012	0.019	0.031	0.000000	0.000000	392.31	1541.14
3	GUIDE	used	7471888	7.76	8871	-0.257	0.050	0.106	0.190	50.302431	0.059105	2117.08	-759.35
4	GUIDE	used	617090728	8.07	8870	0.273	-0.047	0.106	0.185	49.858601	-1.065599	-2231.90	-909.02
5	GUIDE	used	617223024	8.45	8870	0.052	-0.202	0.135	0.234	50.185855	-0.169404	1195.87	-702.83
6	GUIDE	used	617224968	8.74	8866	-0.009	0.193	0.136	0.228	50.296542	-0.525136	180.67	-1578.51
7	GUIDE	used	617222168	8.03	8863	-0.064	0.004	0.120	0.206	50.285317	-0.369555	677.87	-1318.28

2.4 Star Slots

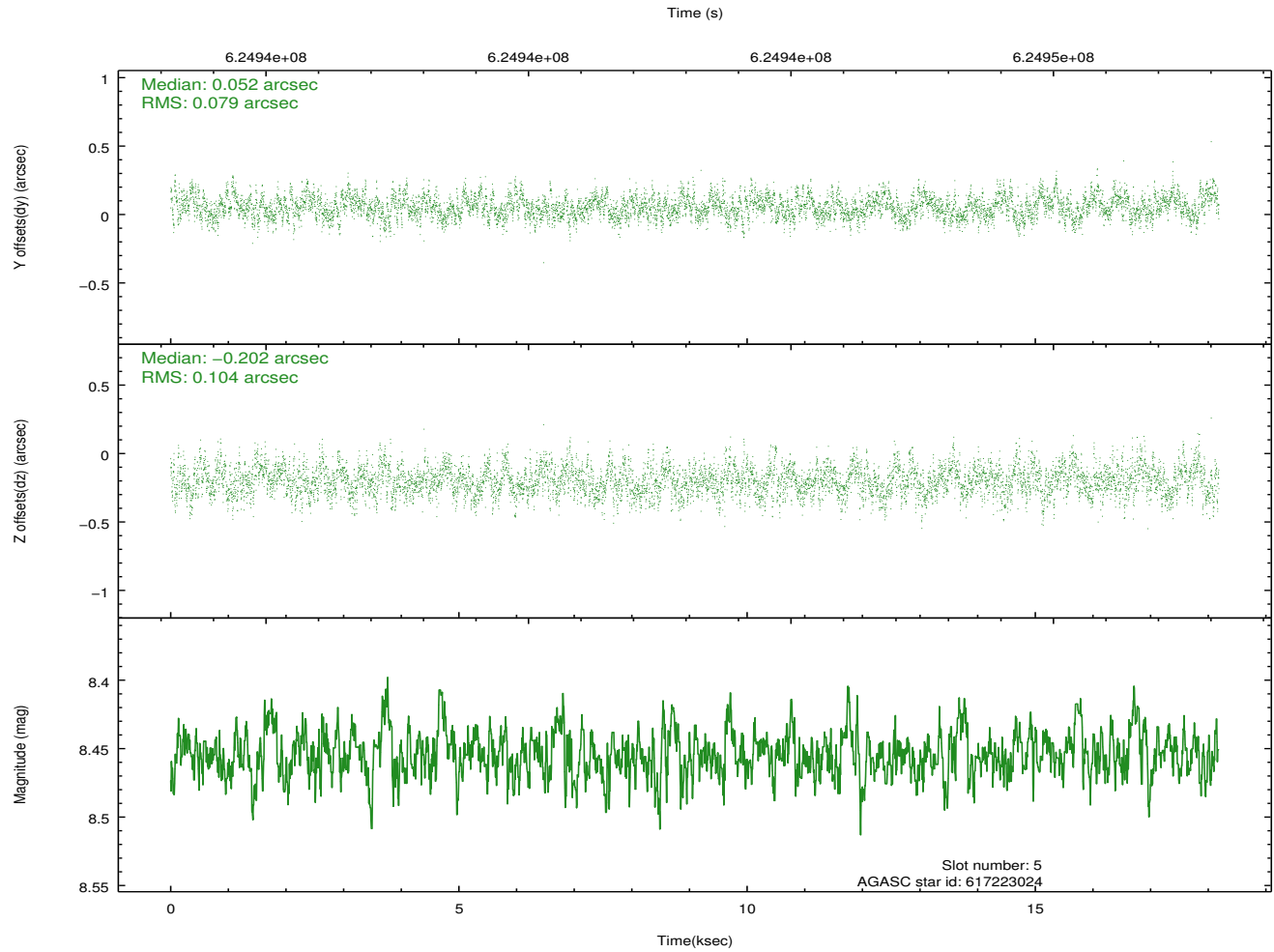
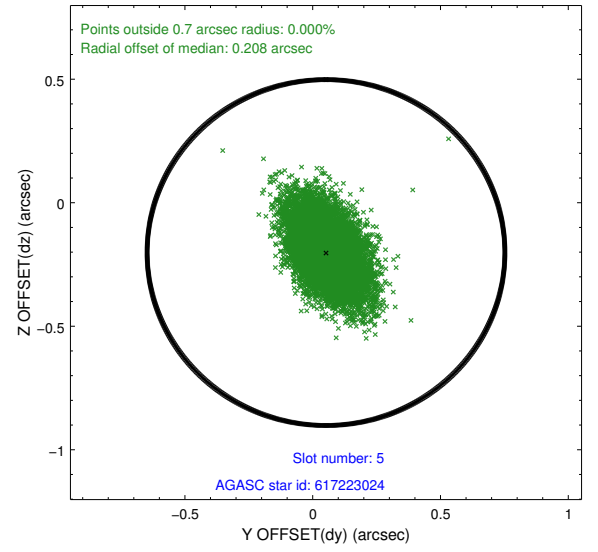
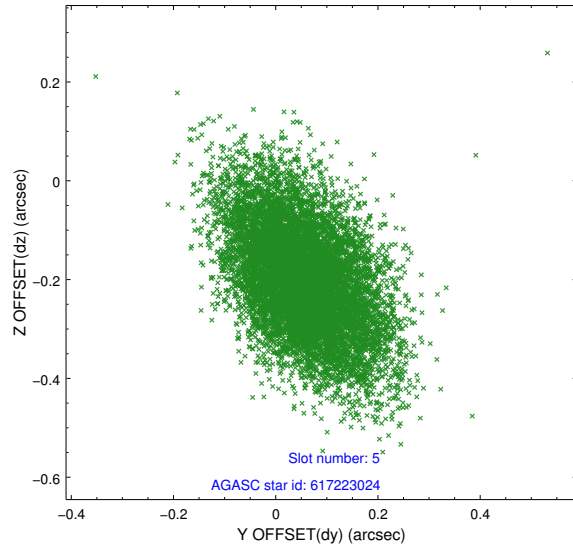
2.4.1 Slot 3



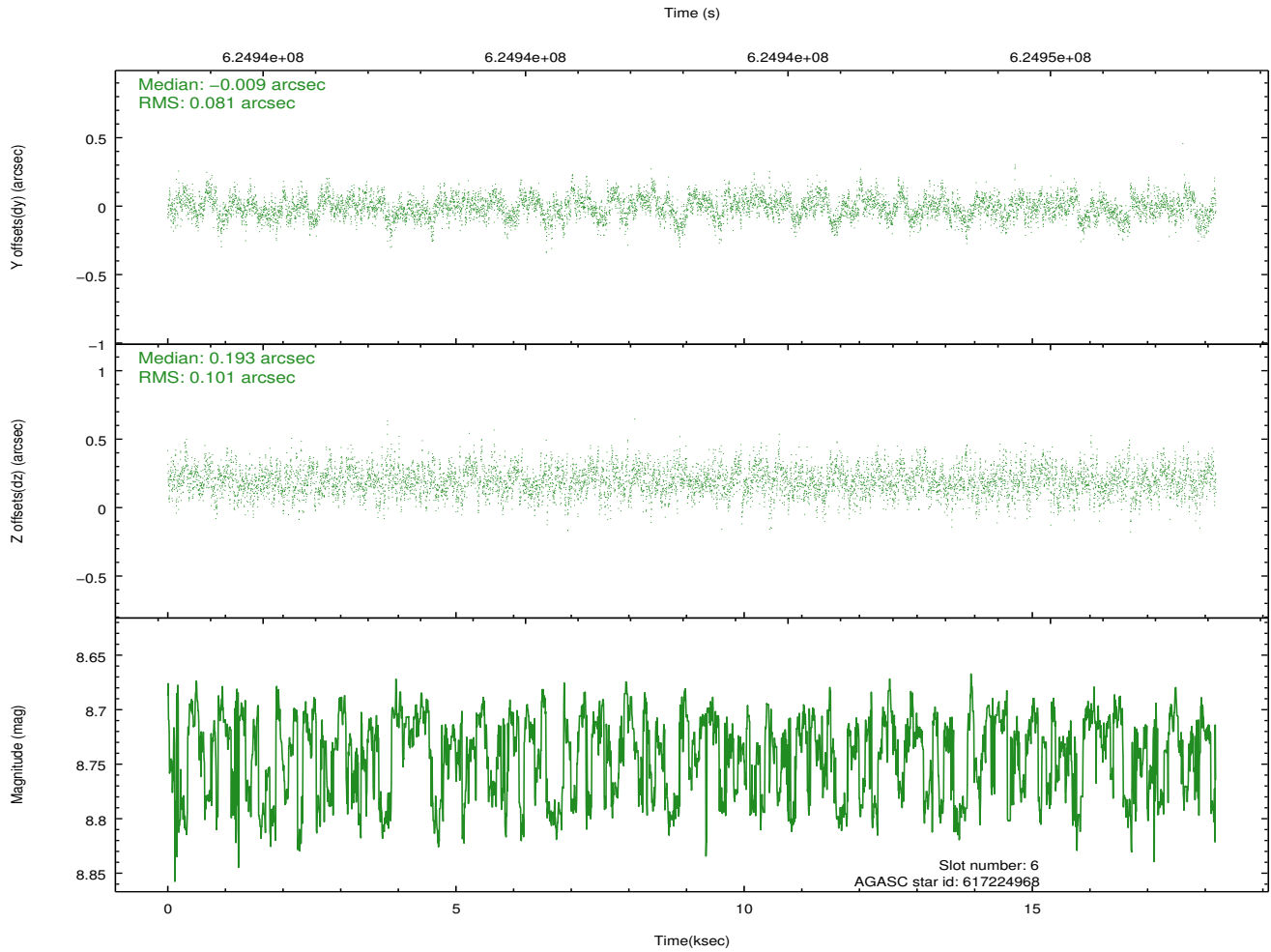
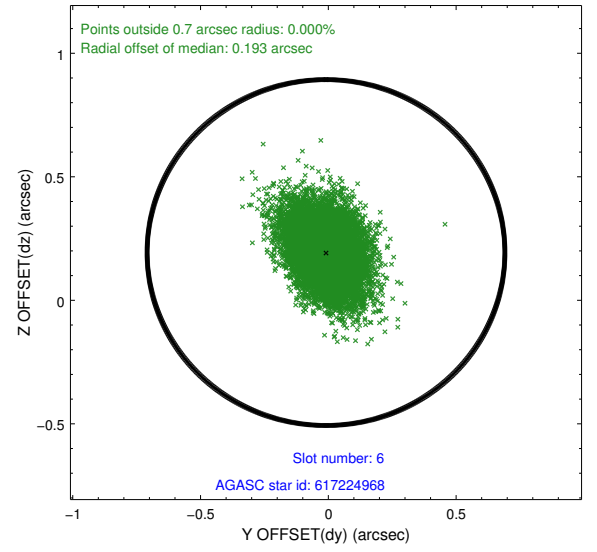
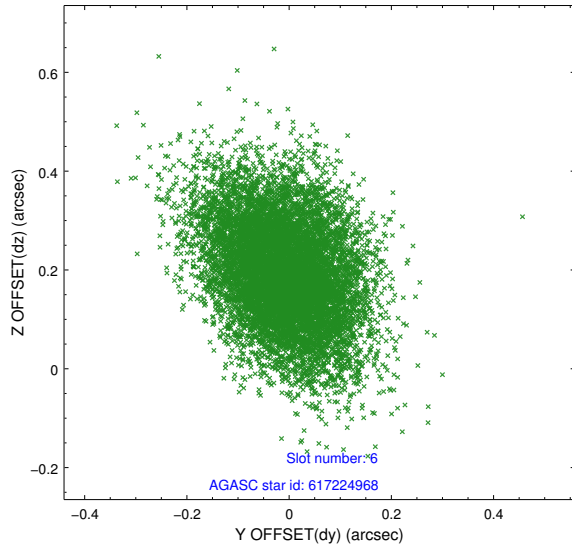
2.4.2 Slot 4



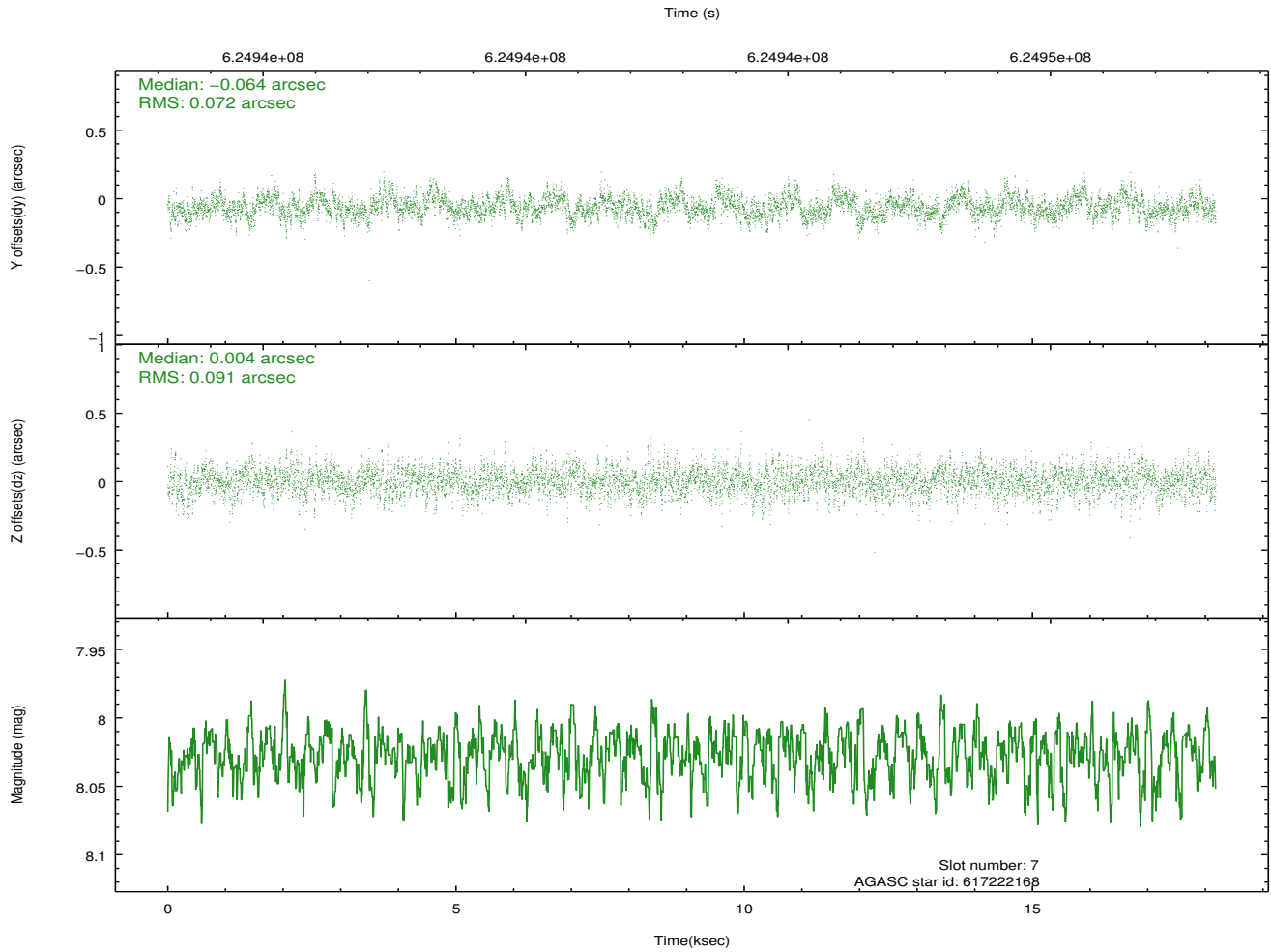
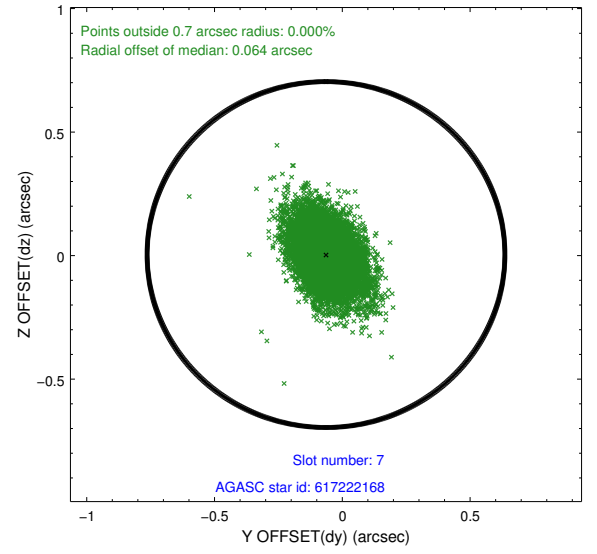
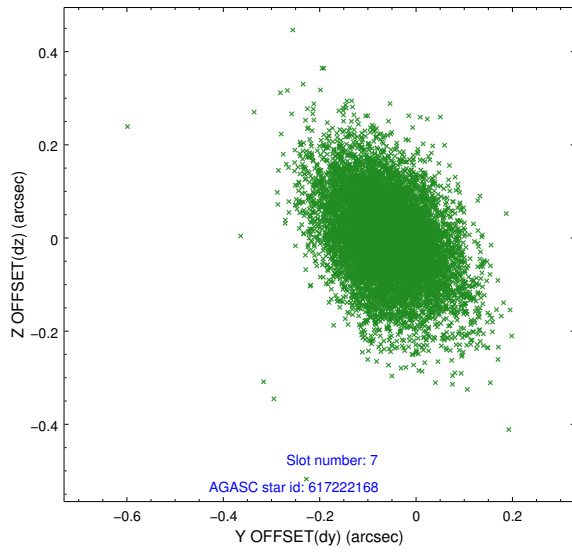
2.4.3 Slot 5



2.4.4 Slot 6

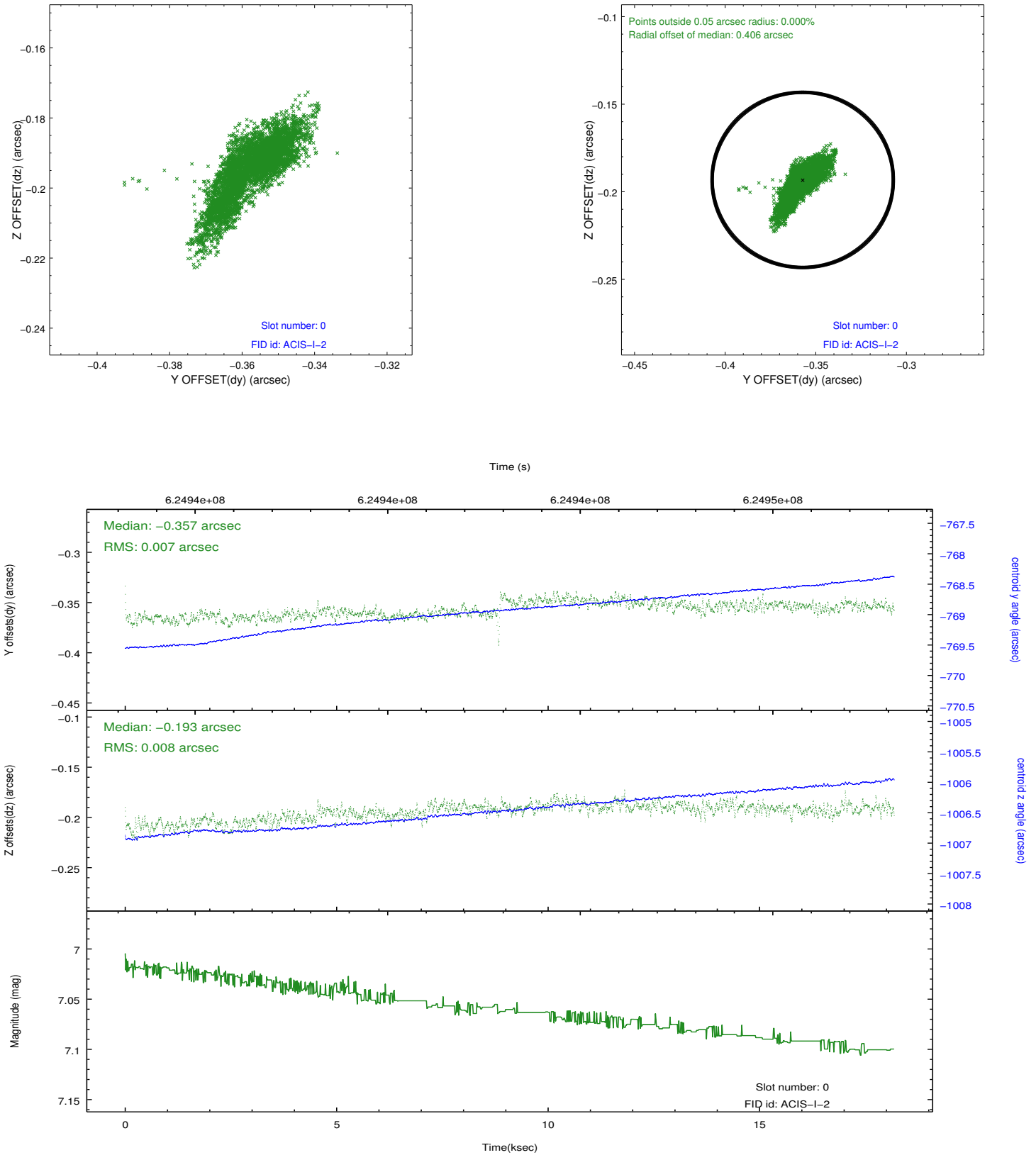


2.4.5 Slot 7

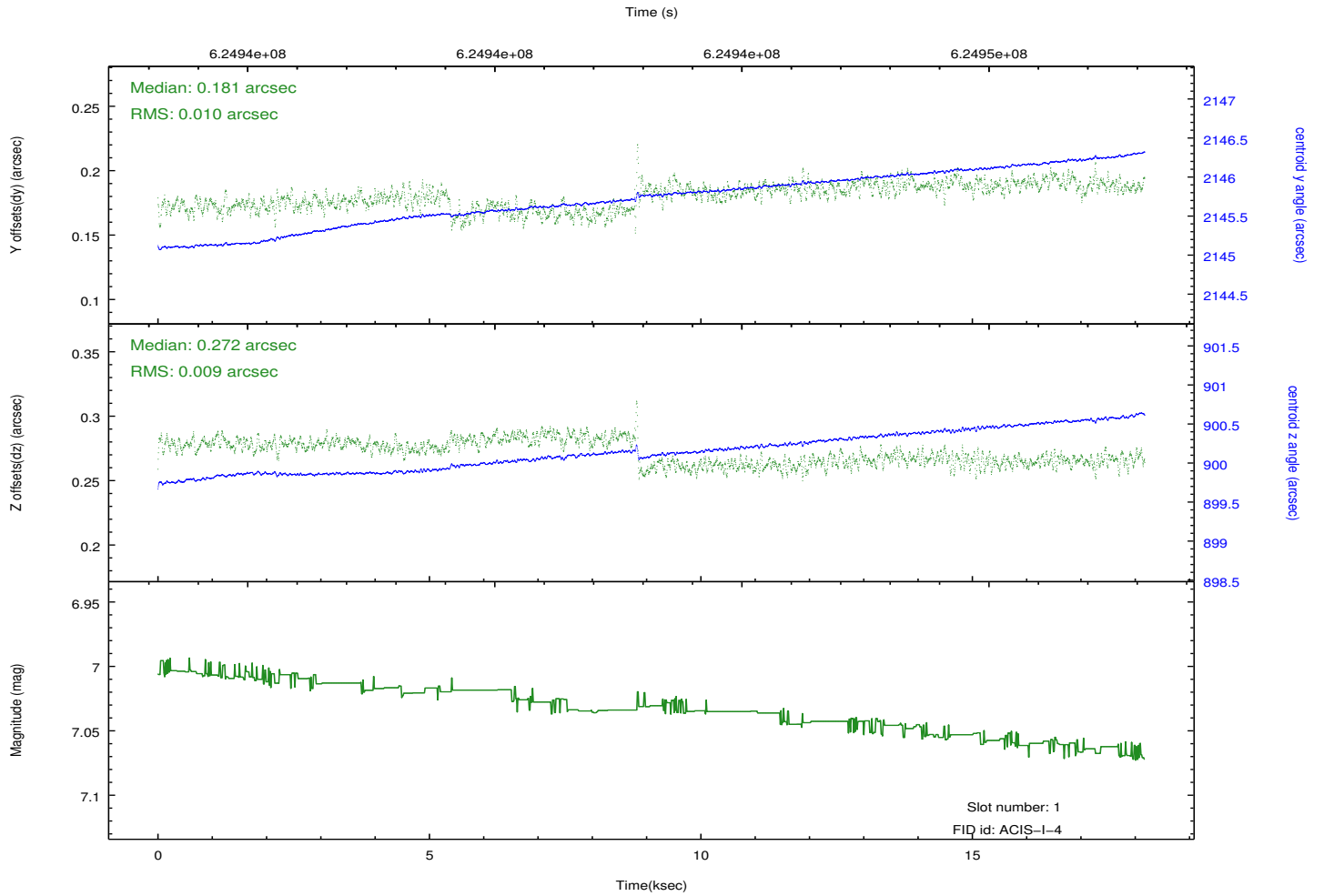
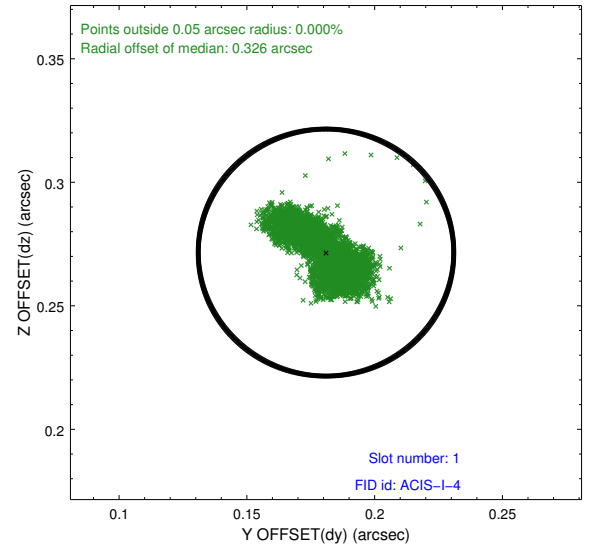
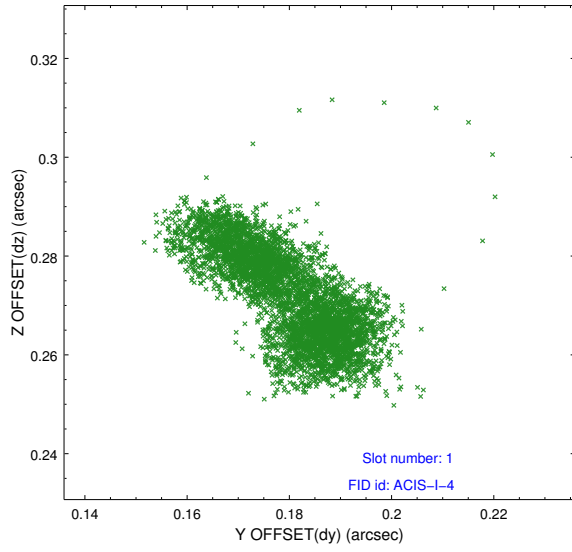


2.5 FID Slots

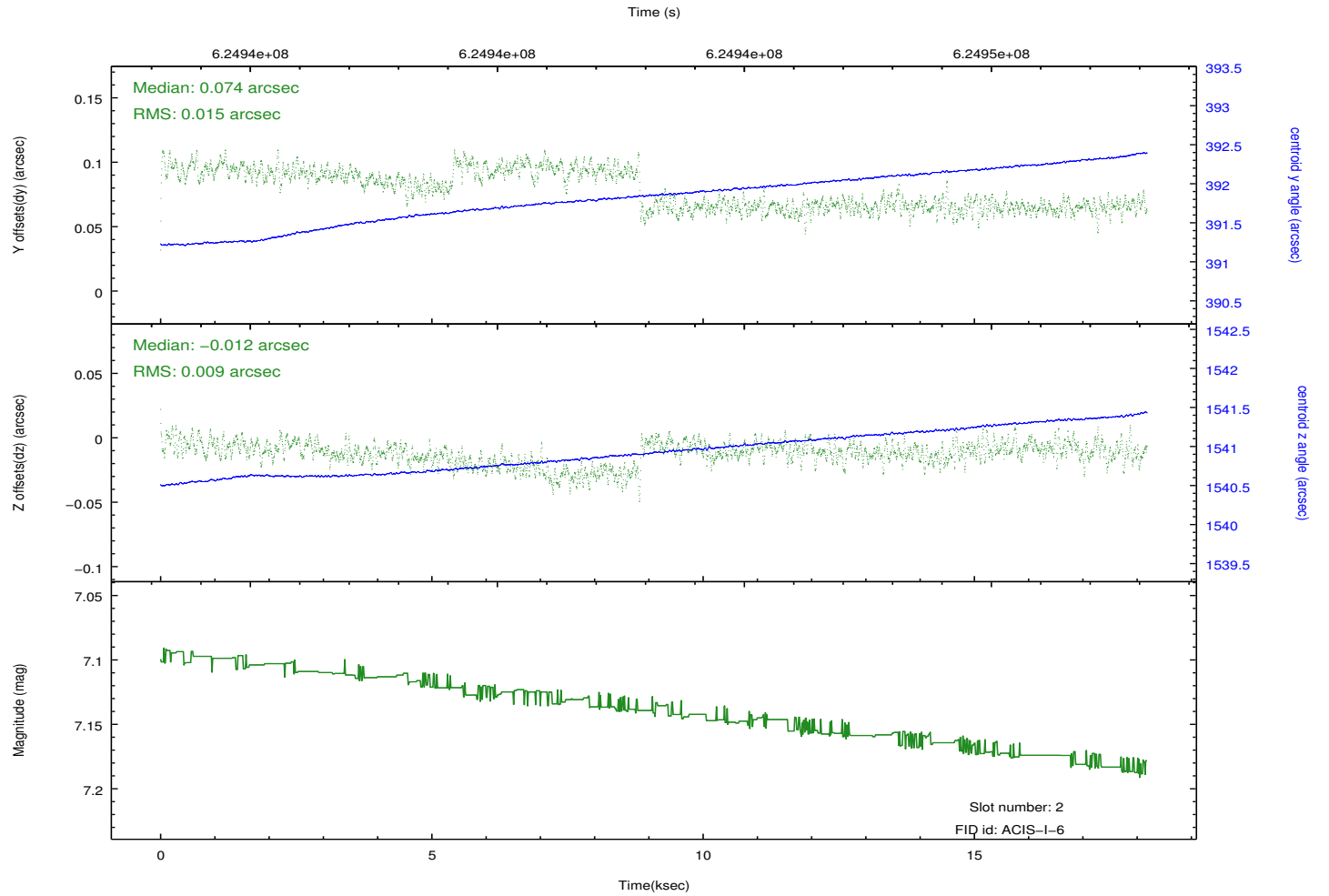
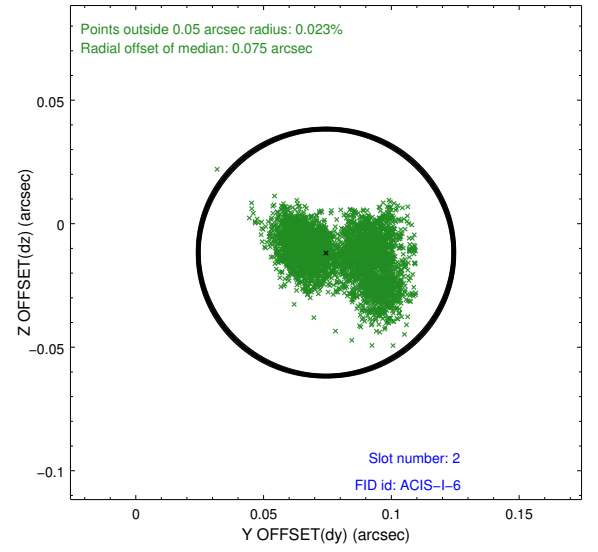
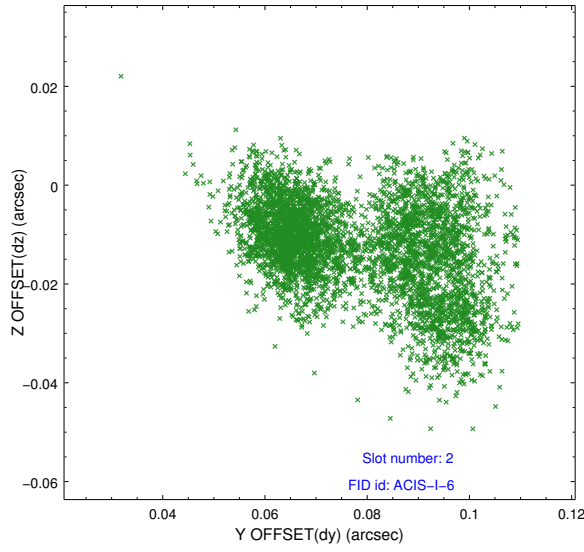
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2017.10.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	18.079200139165

A.2 Comments

Optional chip S2 not included.