

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 22018 - L2 Version 1
Chandra X-Ray Center

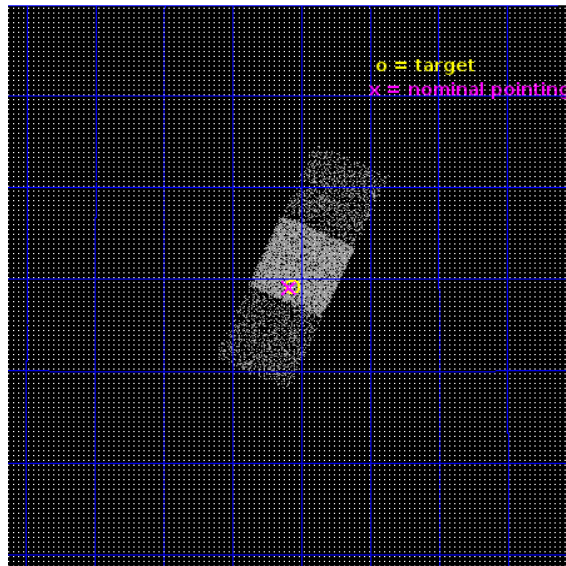
L2 Processing Date : Jan 15 2019

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1 Front

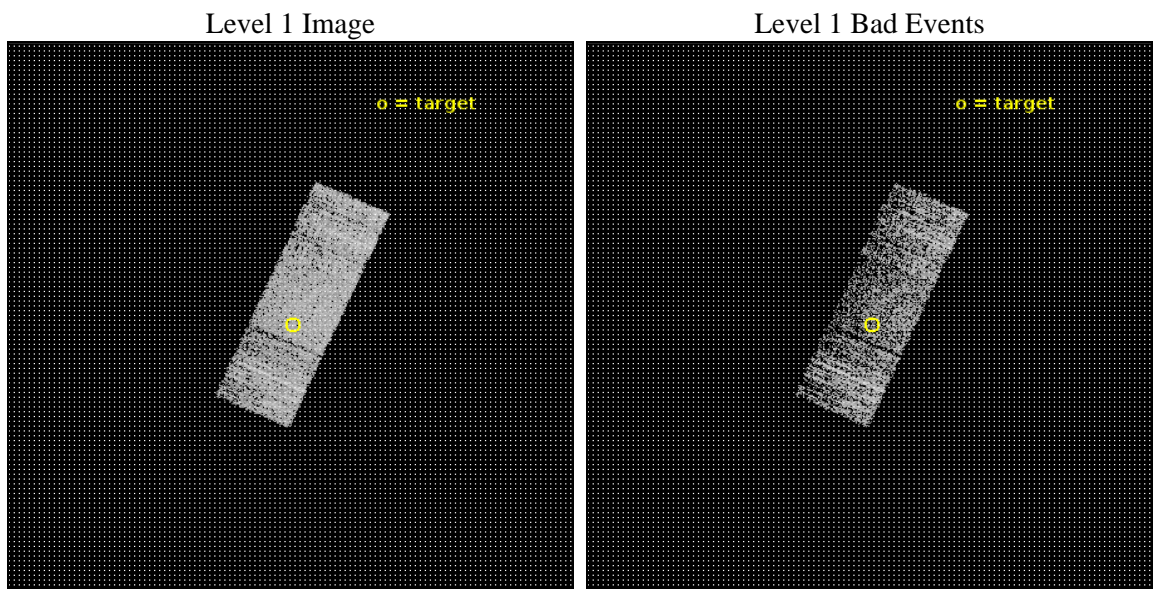
seq_num	703838	Sequence number
obs_id	22018	Observation id
title	Timely Assessment of the X-ray Flux of Newly Discovered Quadruply Lensed Quasars	Proposal title
observer	David Pooley	Principal investigator
object	GraL 0659+16	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	104.766667	Observer's specified target RA [deg]
dec_targ	16.48575	Observer's specified target Dec [deg]
ra_nom	104.77133956856	Nominal RA [deg]
dec_nom	16.484615356616	Nominal Dec [deg]
roll_nom	294.26961418727	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1692.6000131369	Sum of GTIs [s]
livetime	1670.4849478912	Livetime [s]
ontime6	1692.5705324411	Sum of GTIs [s]
ontime7	1692.6000131369	Sum of GTIs [s]
ontime8	1692.5294923782	Sum of GTIs [s]
l2events	9665	Number of level 2 events



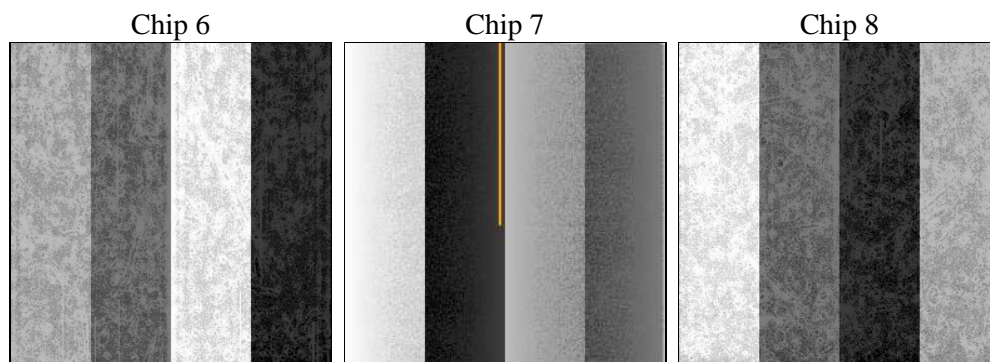
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	1579.736000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	1692.6000131369	Sum of GTIs [s]
caldsver	4.8.2	 	ontime6	1692.5705324411	Sum of GTIs [s]
date	2019-01-15T23:43:58	Date and time of file creation	ontime7	1692.6000131369	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	1692.5294923782	Sum of GTIs [s]
			l1events	47031	Number of level 1 events

2.1.4 Events

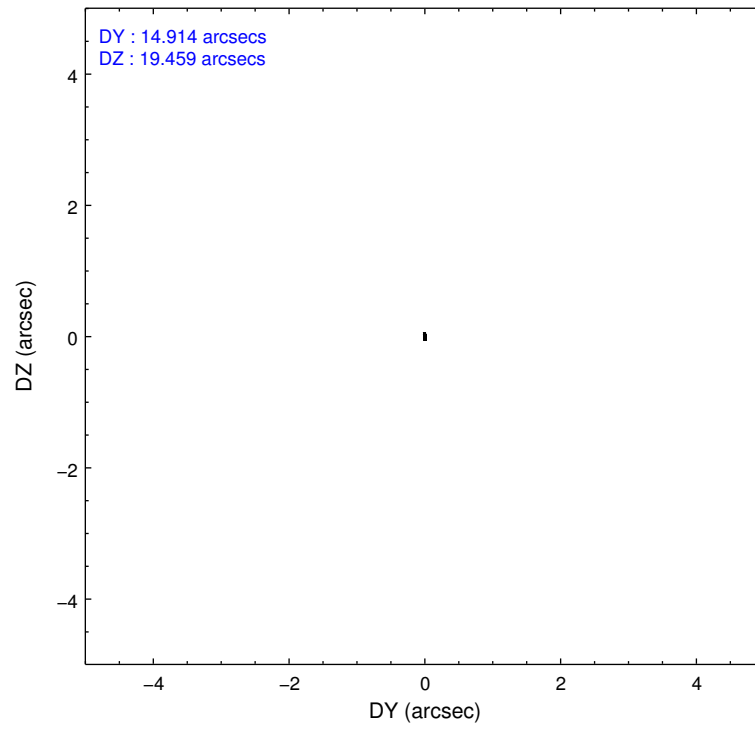
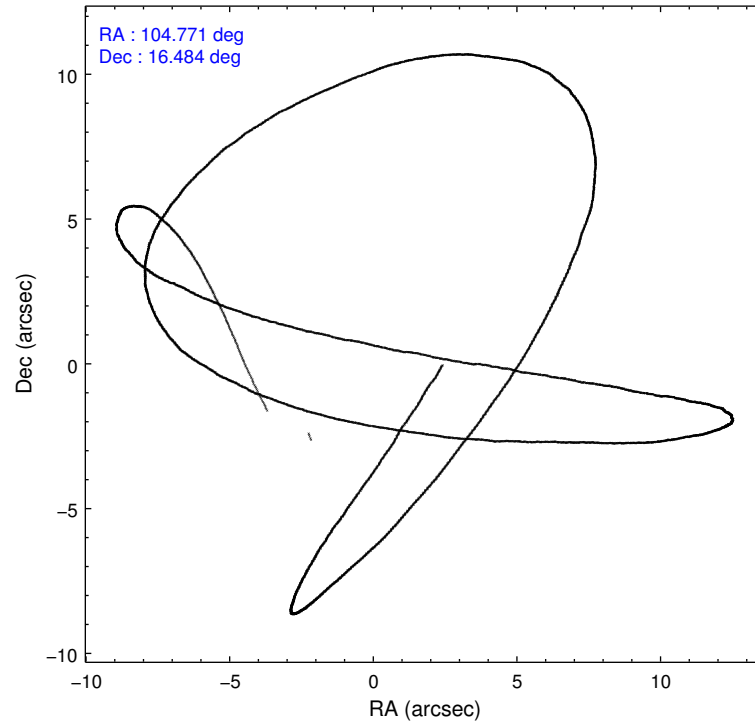
	ccd 6	ccd 7	ccd 8
level 1 events	13771	16253	17007
rejected events	12351	8953	12623
rejected %	89%	55%	74%

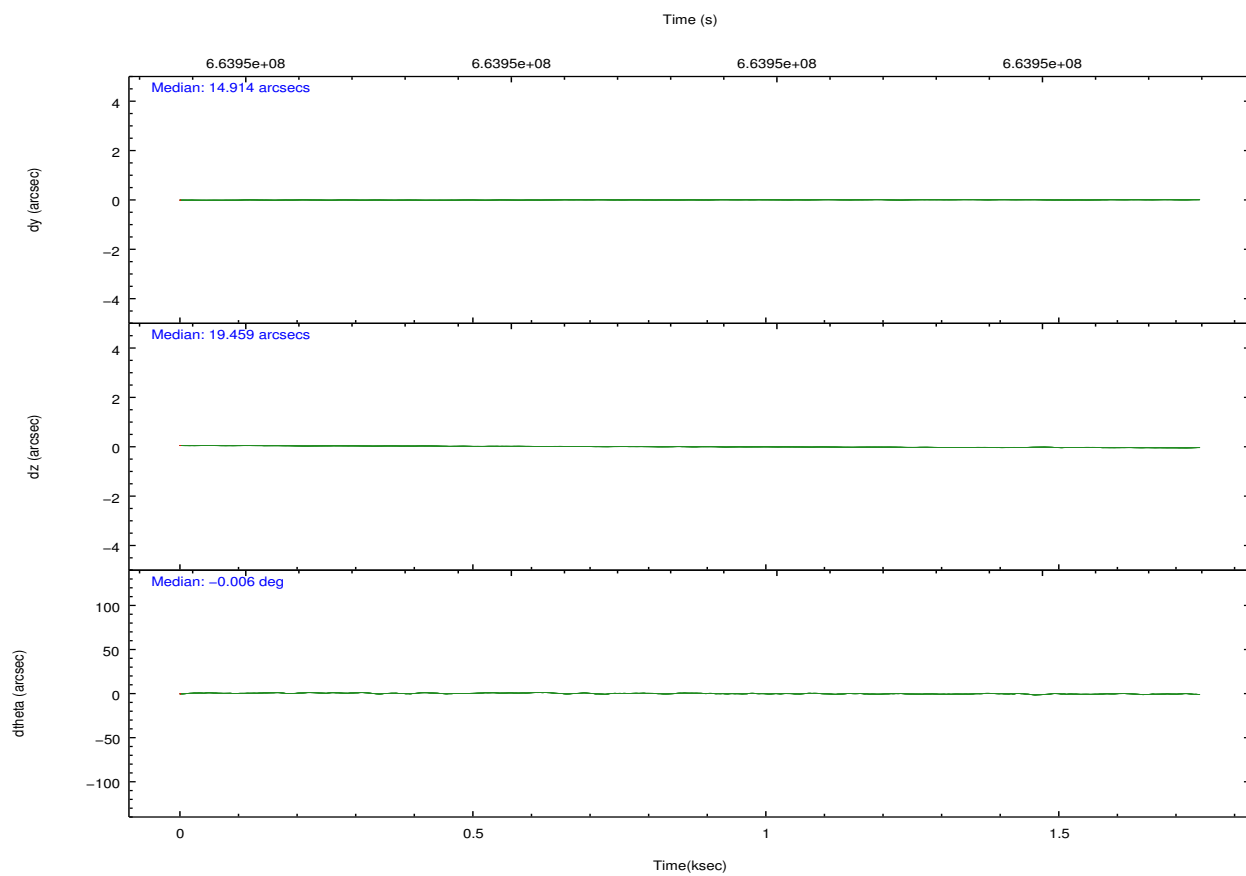
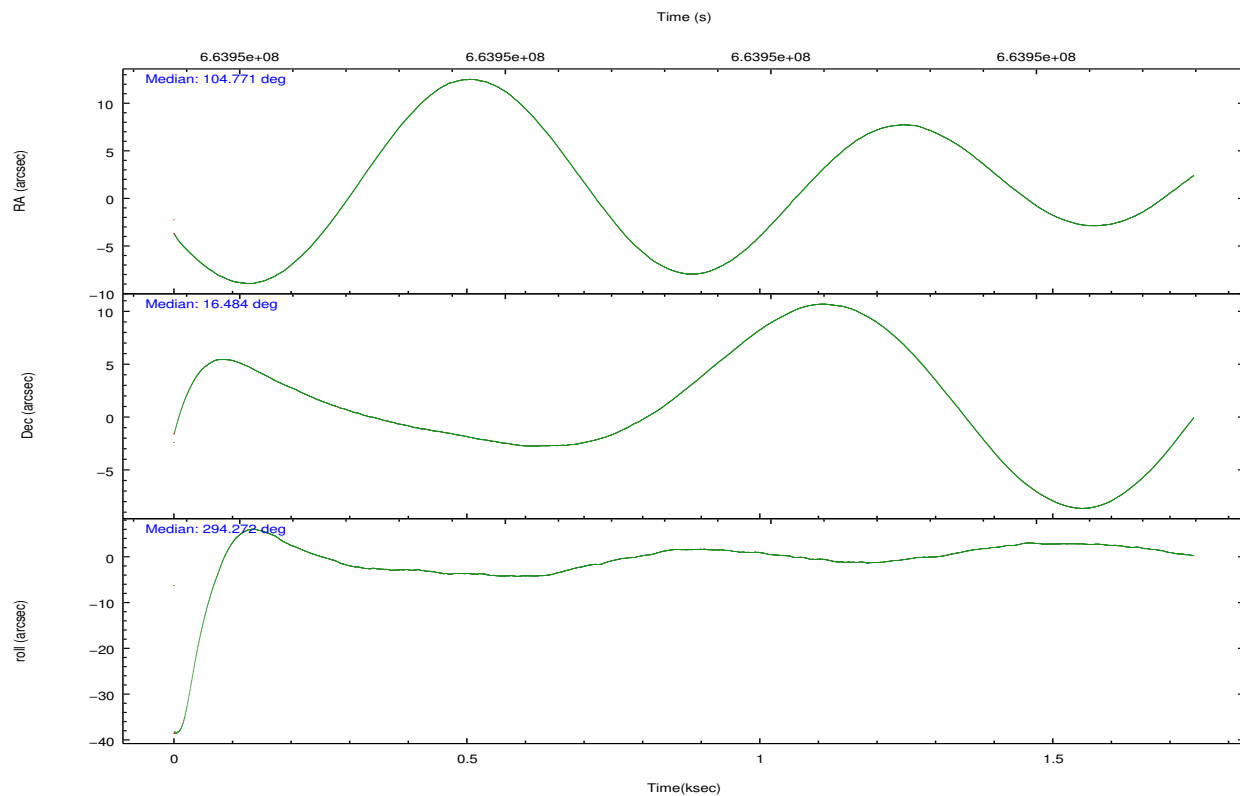
	ccd 6	ccd 7	ccd 8
grade 0 events	473	622	1164
	3%	3%	6%
grade 1 events	10	31	20
	0%	0%	0%
grade 2 events	312	1653	1117
	2%	10%	6%
grade 3 events	136	563	421
	0%	3%	2%
grade 4 events	141	524	403
	1%	3%	2%
grade 5 events	618	1513	930
	4%	9%	5%
grade 6 events	361	3953	1285
	2%	24%	7%
grade 7 events	11720	7394	11667
	85%	45%	68%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-678	ACIS-678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	104.748052	104.7713395685587	CCD I2 on	N	N
[deg] Pointing Dec	16.500638	16.48461535661606	CCD I3 on	N	N
[deg] Pointing Roll	294.119902	294.2696141872722	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O2	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	O1	Y
[s] Observation start time (MET)	663949634.184000	663948317.99989	CCD S5 on	N	N
Observation start date	2019-01-15T14:26:05	2019-01-15T14:05:17	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	663951213.184000	663952452.33764	On-chip summing requested	N	N
Observation end date	2019-01-15T14:52:24	2019-01-15T15:14:12	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



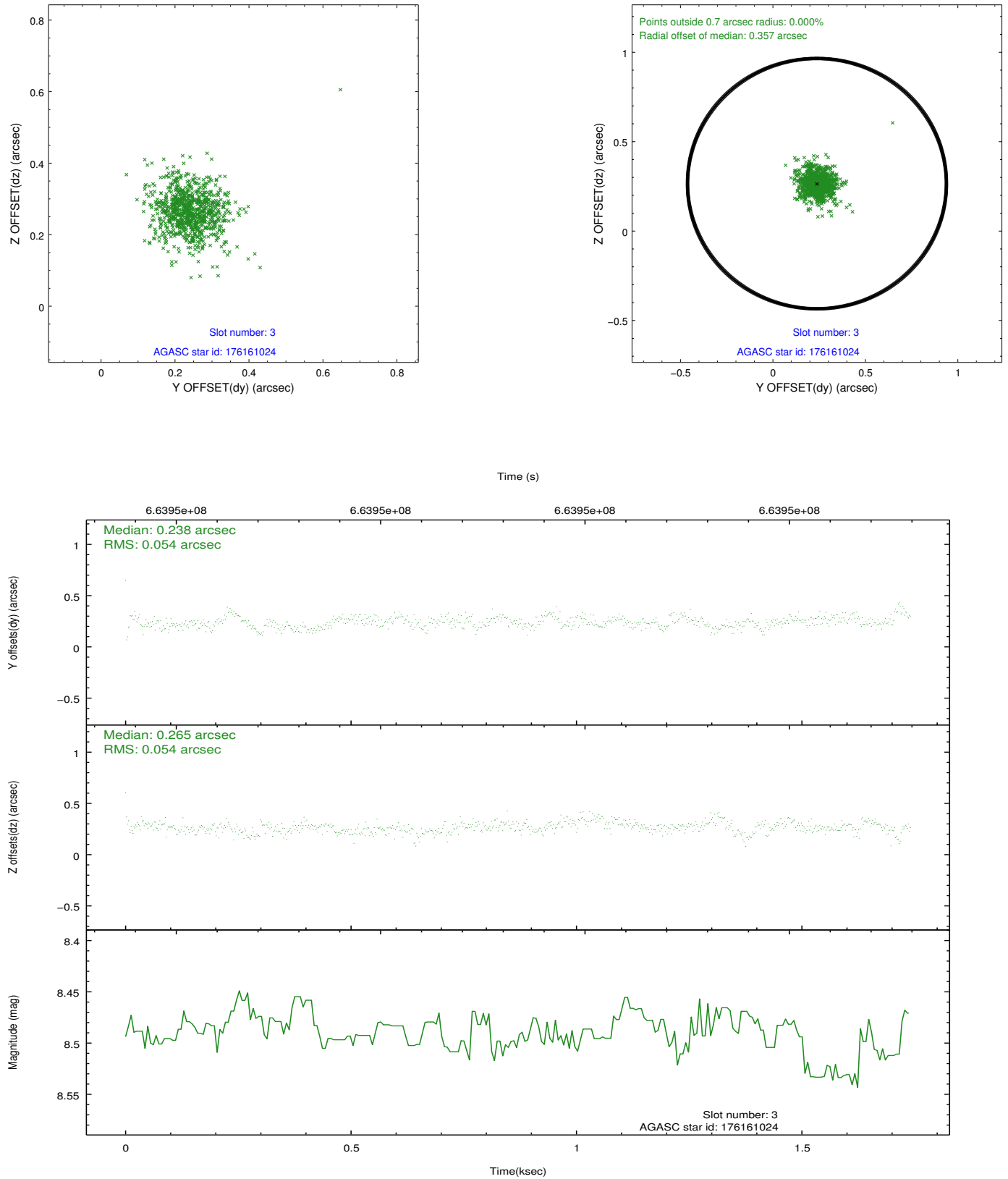


Slot Statistics

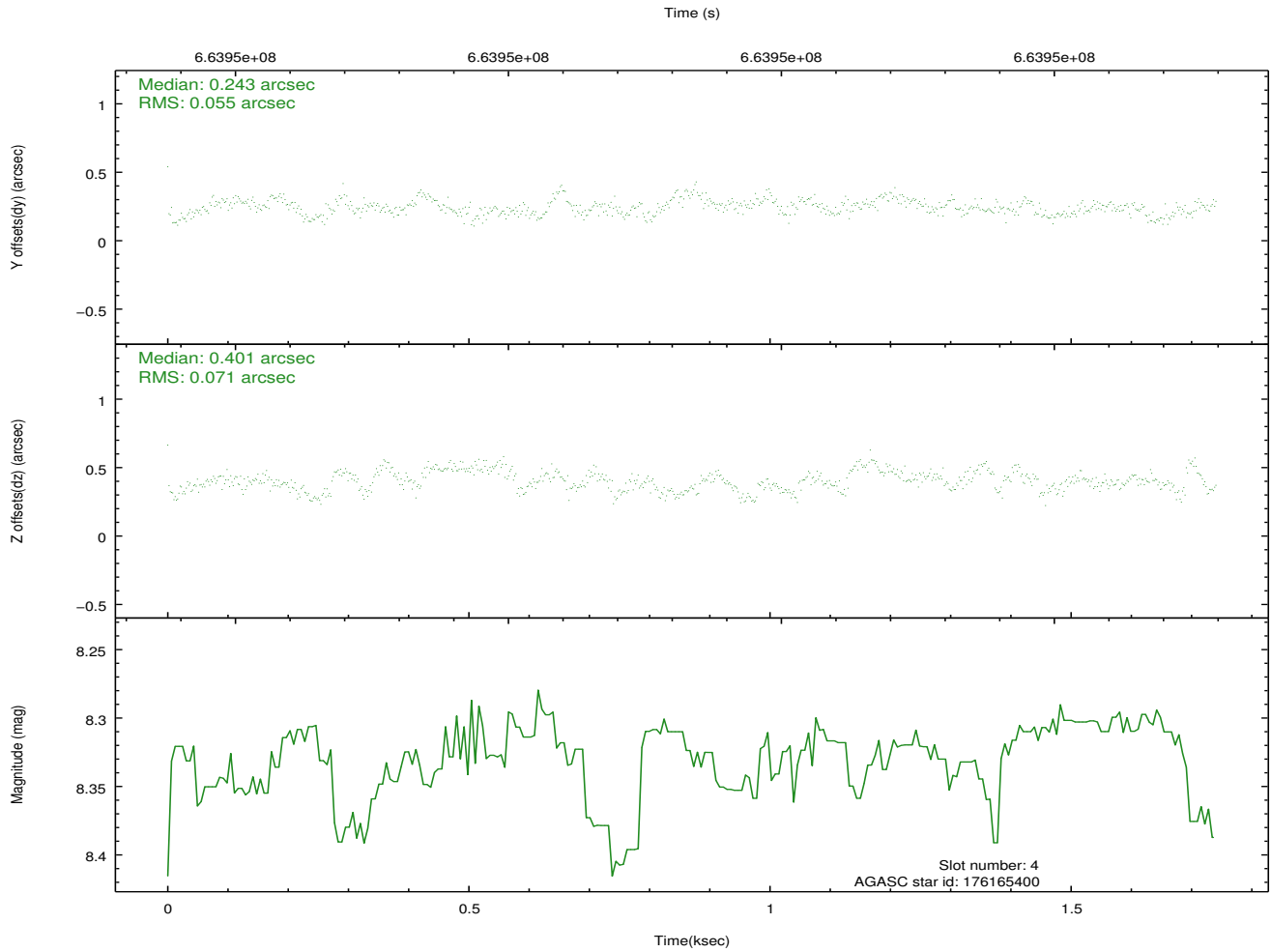
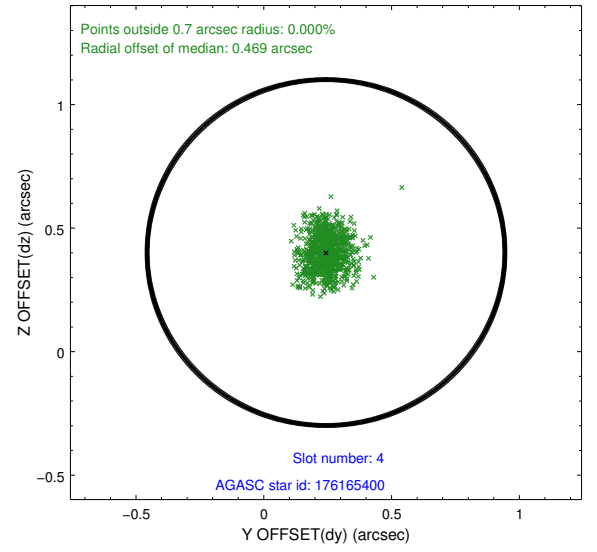
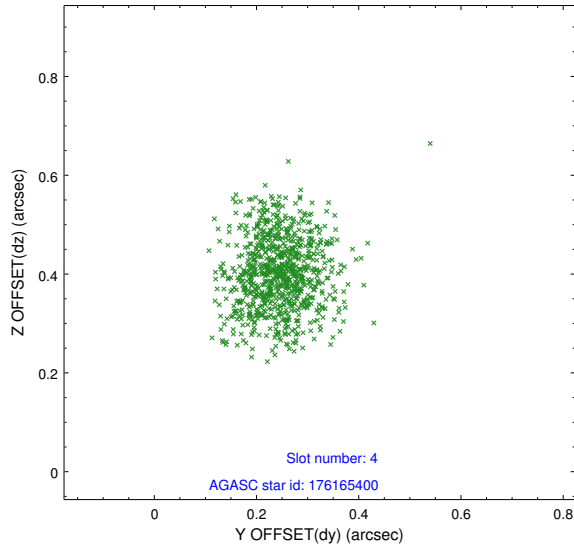
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.08	425	1.000	-0.350	-0.208	0.010	0.015	0.000000	0.000000	-768.16	-1741
1	FID		ACIS-S-4	7.20	425	1.000	0.819	0.224	0.008	0.012	0.000000	0.000000	2144.47	163
2	FID		ACIS-S-5	7.17	425	1.000	-0.501	-0.007	0.008	0.013	0.000000	0.000000	-1816.38	161
3	GUIDE	used	176161024	8.49	850	1.000	0.238	0.265	0.077	0.132	104.523646	16.724972	-1053.92	-374
4	GUIDE	used	176165400	8.33	850	1.000	0.243	0.401	0.097	0.155	104.458321	16.578649	-663.54	-796
5	GUIDE	used	176166184	7.36	850	1.000	0.108	-0.026	0.063	0.115	104.772326	16.040713	1544.30	-600
6	GUIDE	used	176170168	7.27	850	1.000	-0.406	-0.394	0.088	0.135	105.298914	16.105255	2076.62	1157
7	GUIDE	used	176692960	7.58	849	1.000	-0.188	-0.241	0.105	0.185	105.162987	16.959175	-922.08	1981

2.4 Star Slots

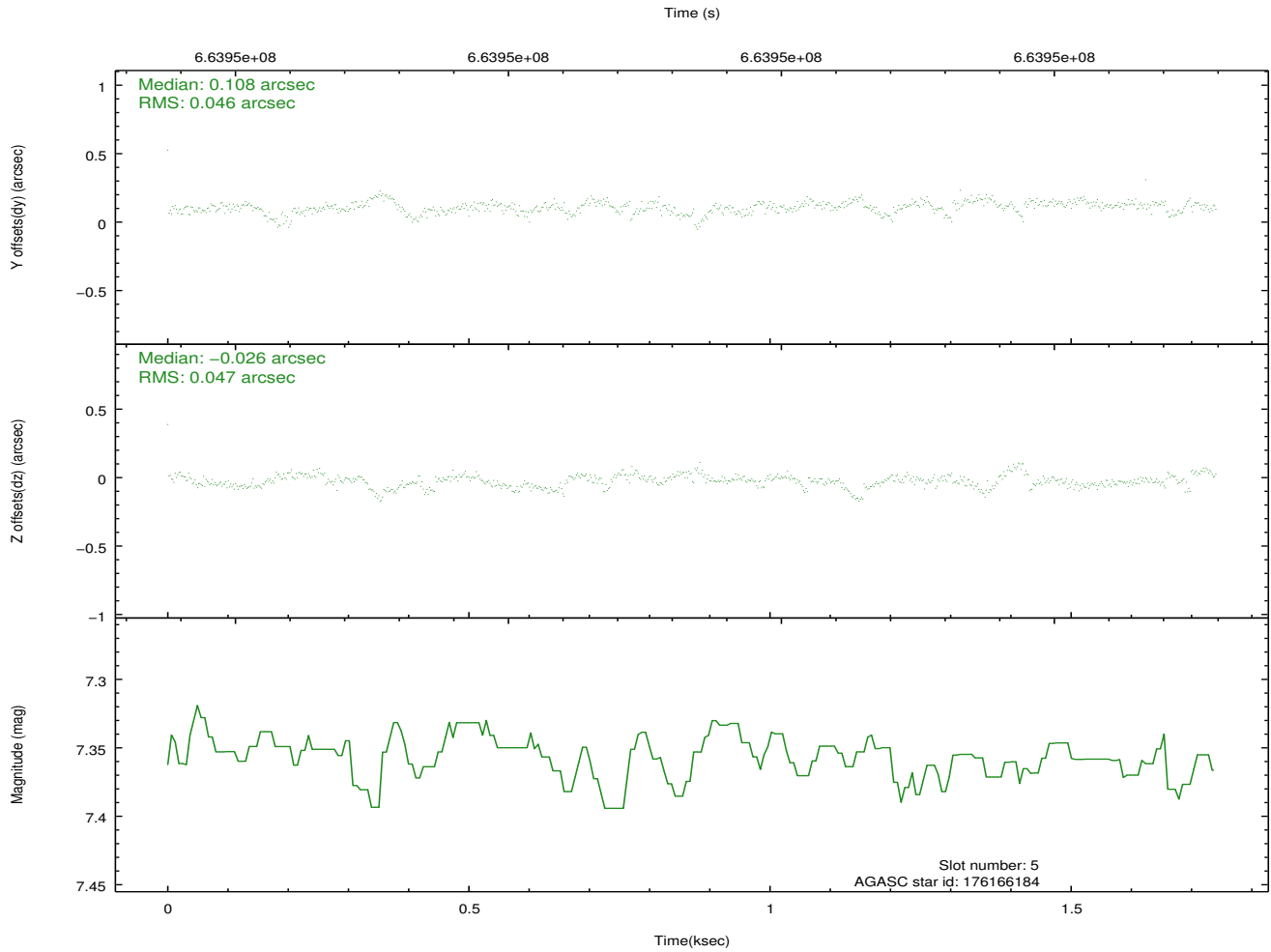
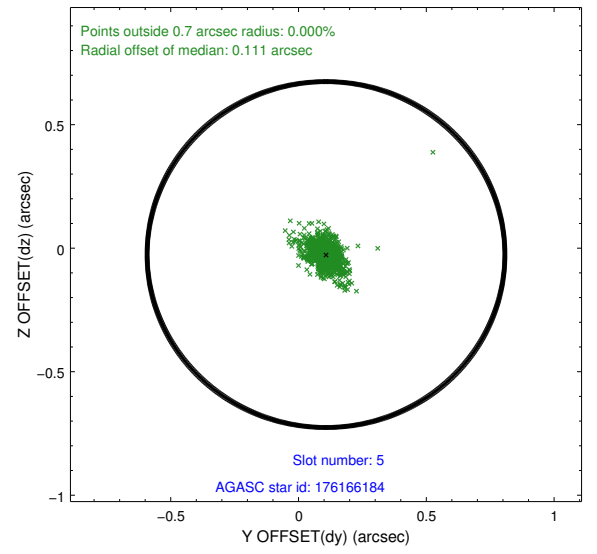
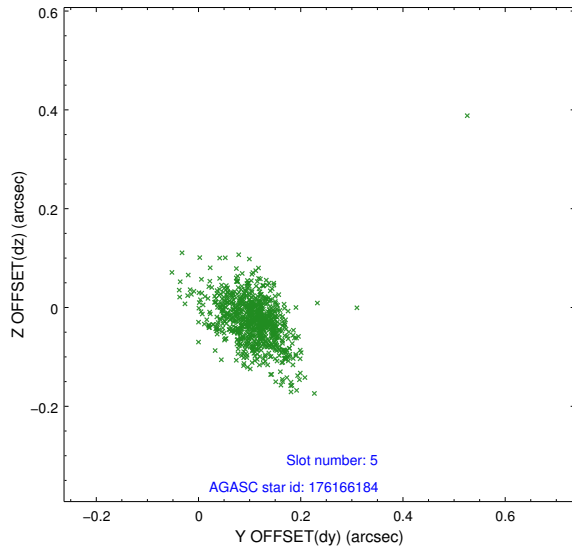
2.4.1 Slot 3



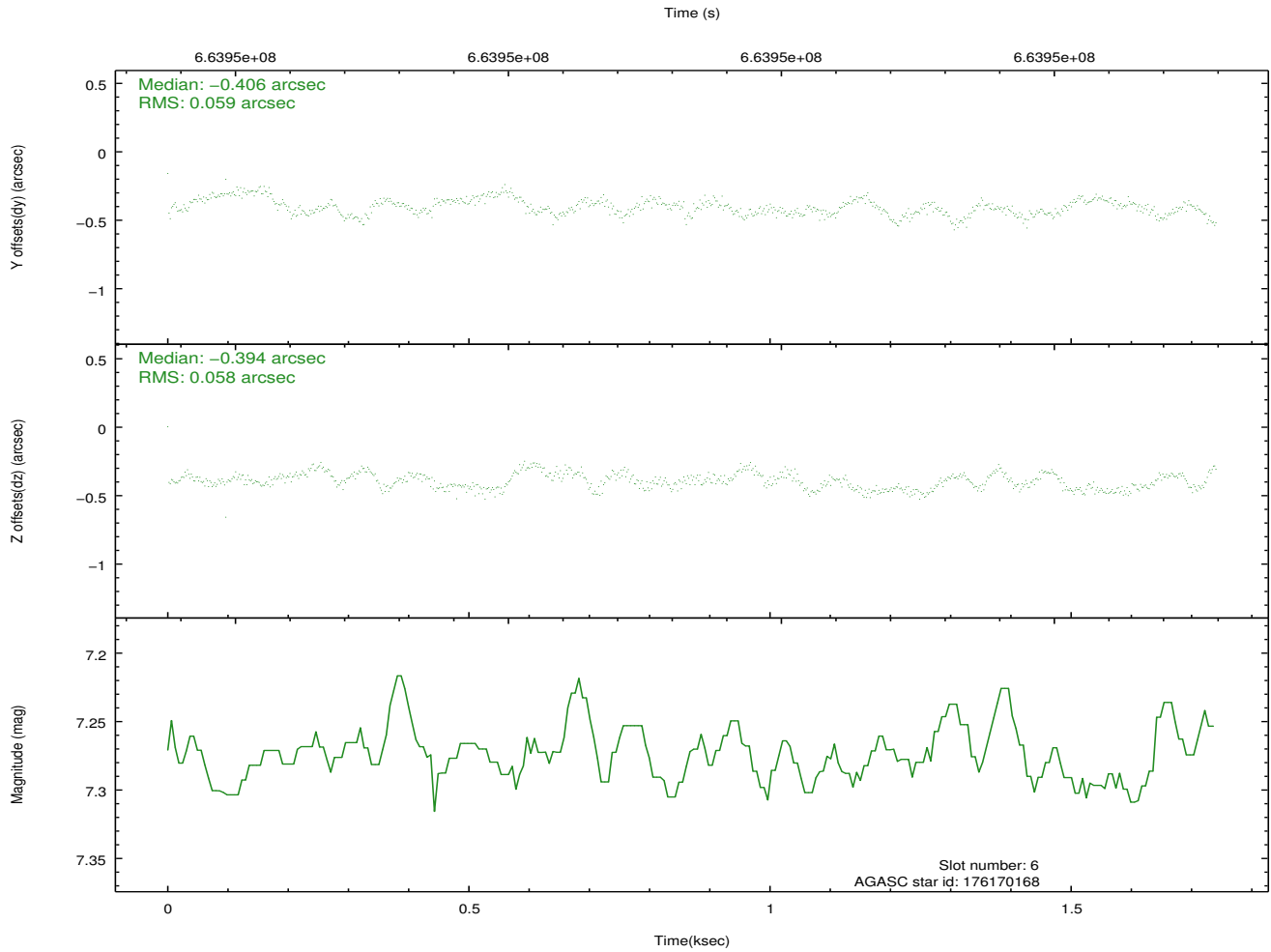
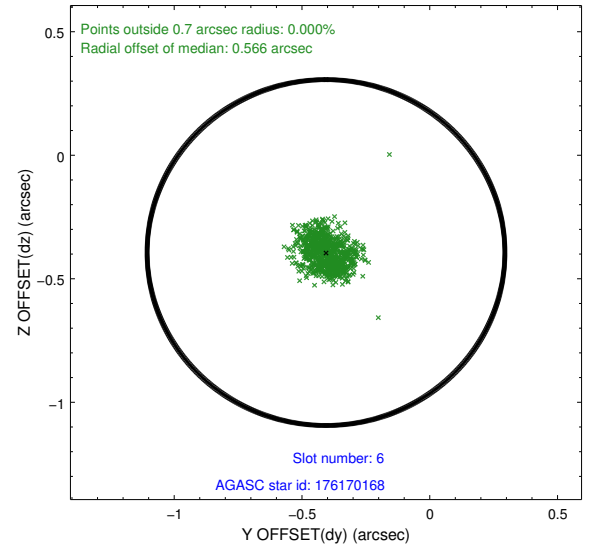
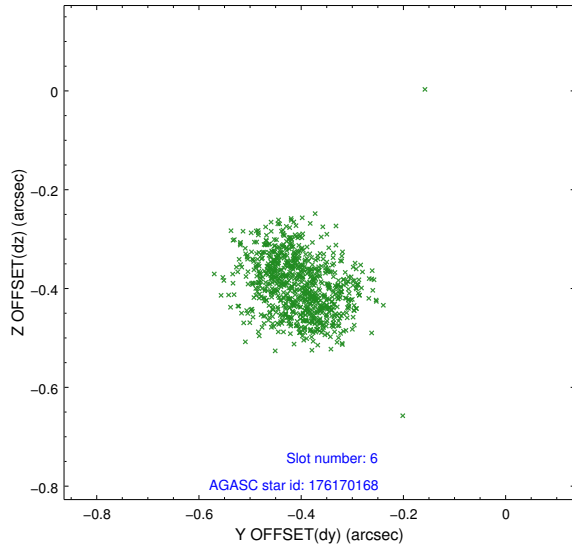
2.4.2 Slot 4



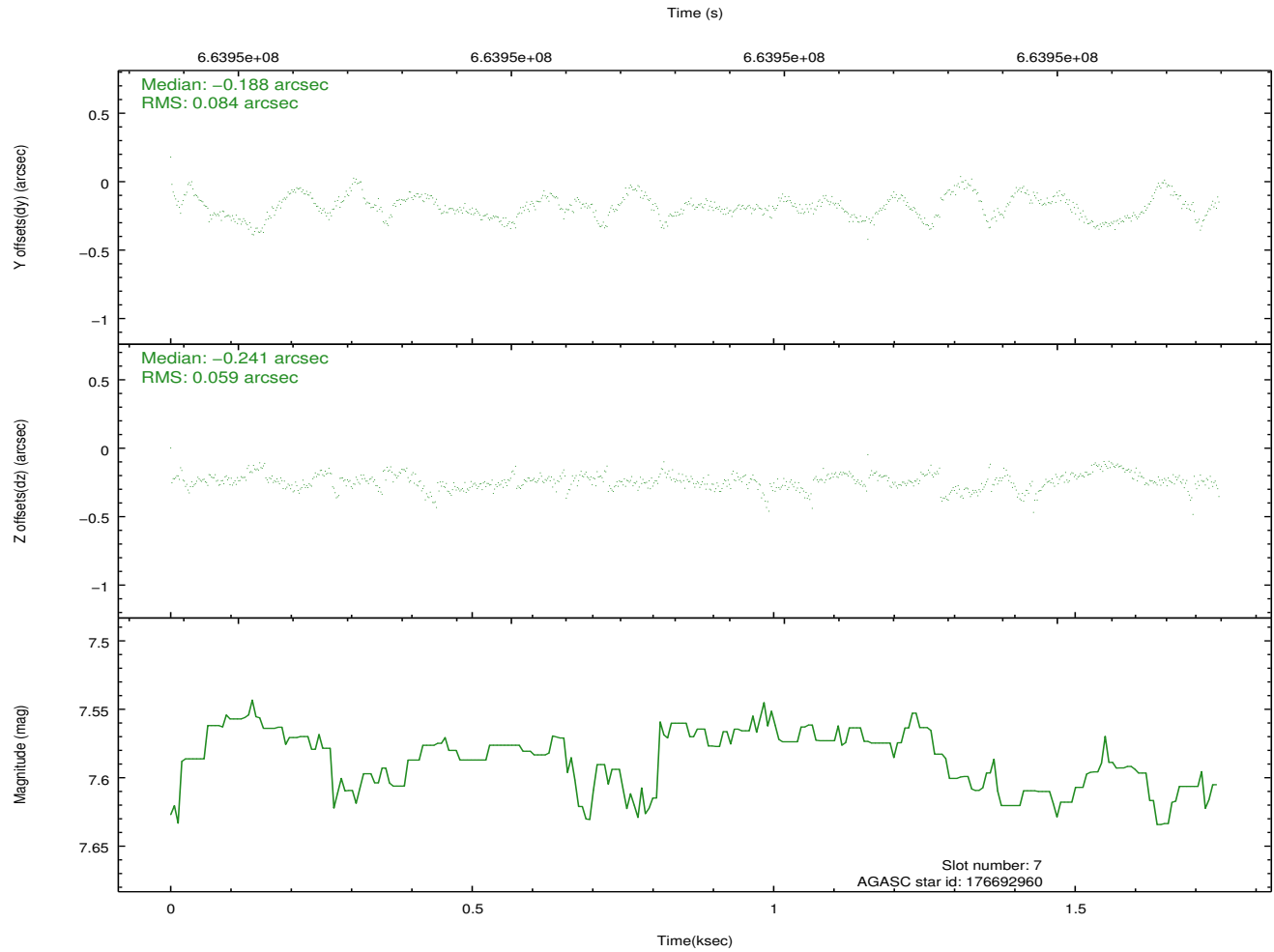
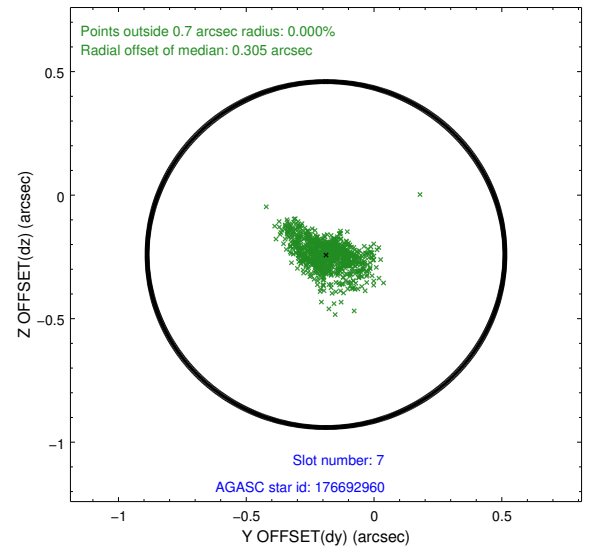
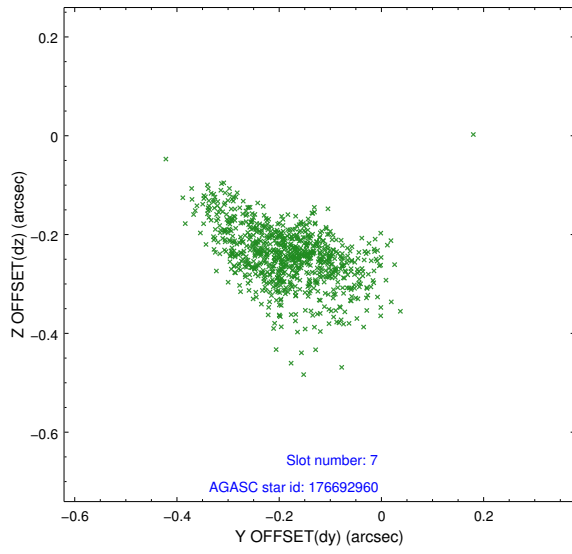
2.4.3 Slot 5



2.4.4 Slot 6

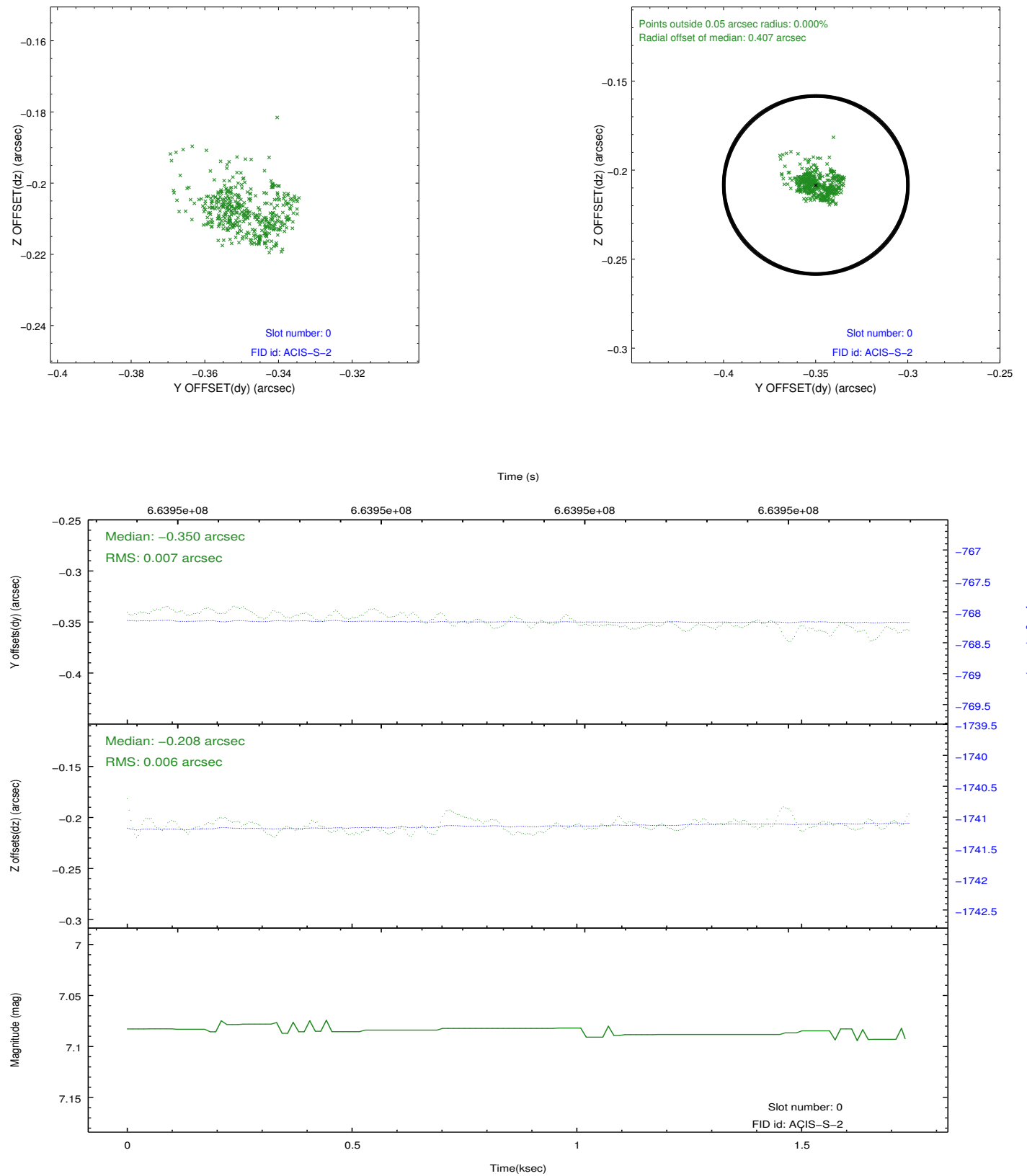


2.4.5 Slot 7

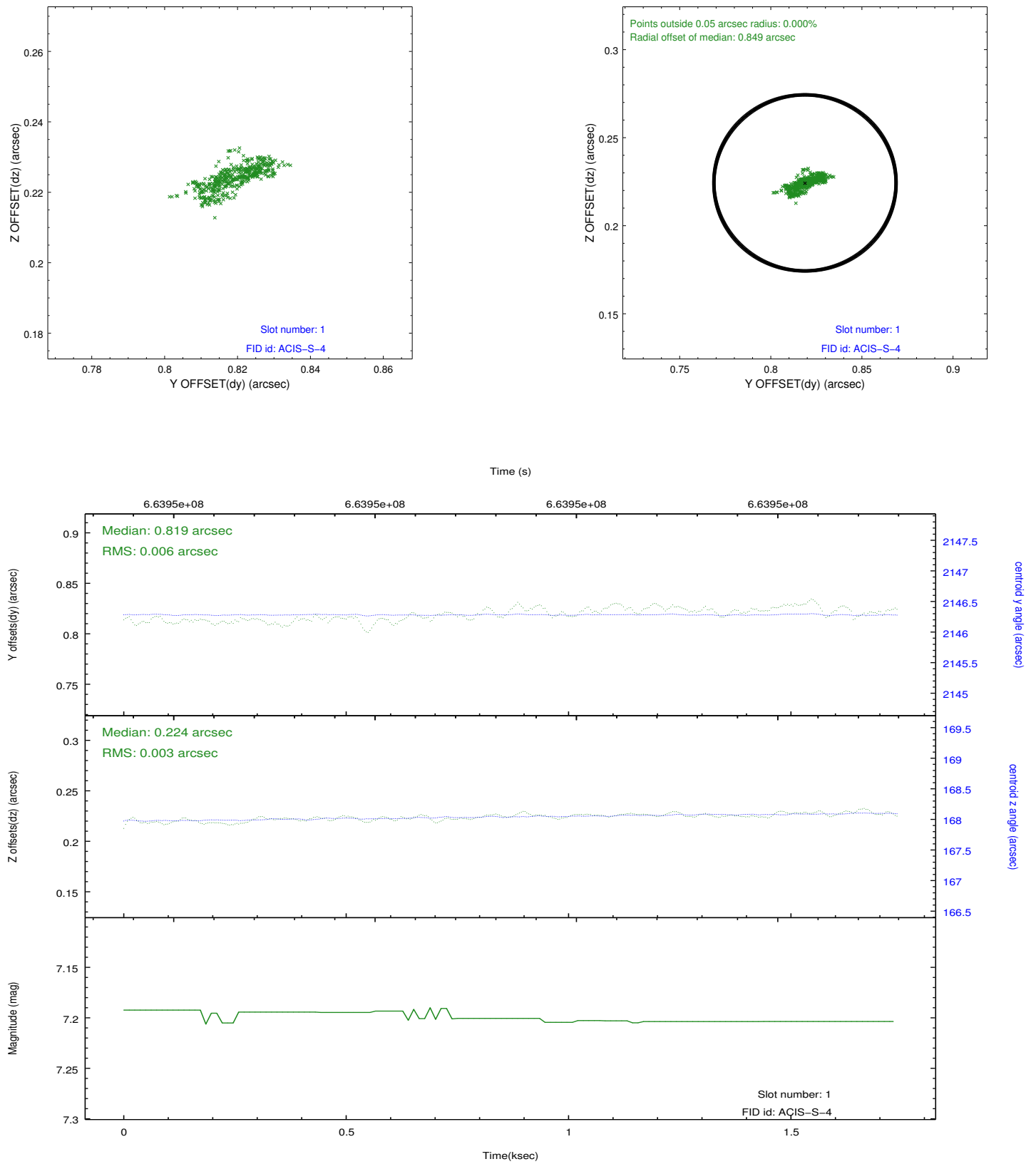


2.5 FID Slots

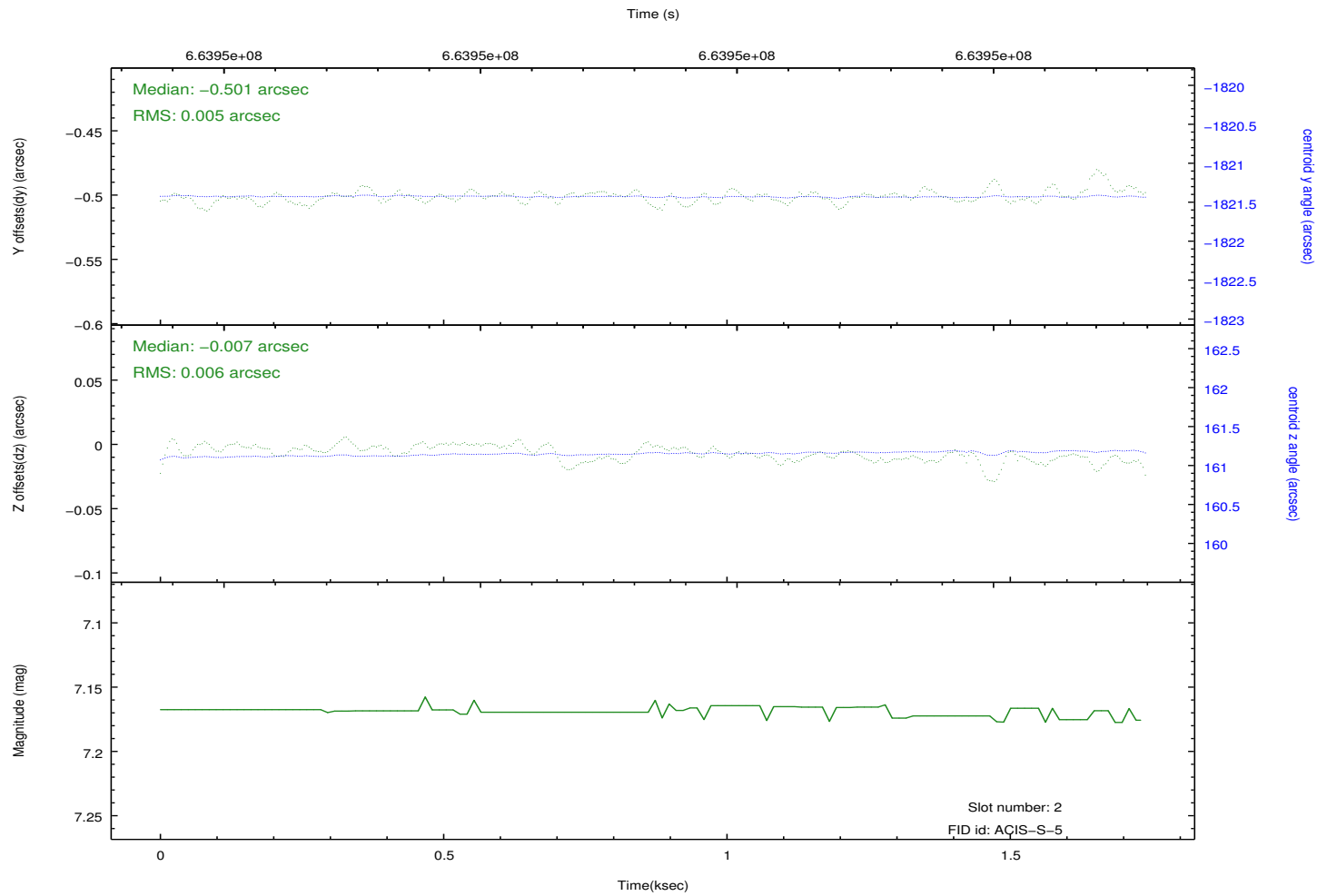
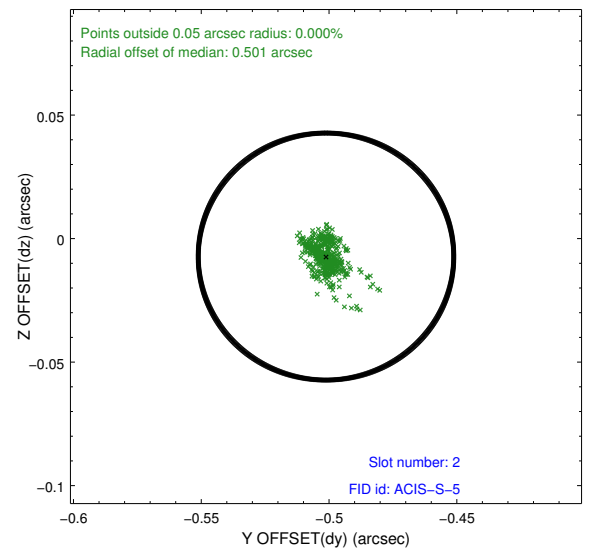
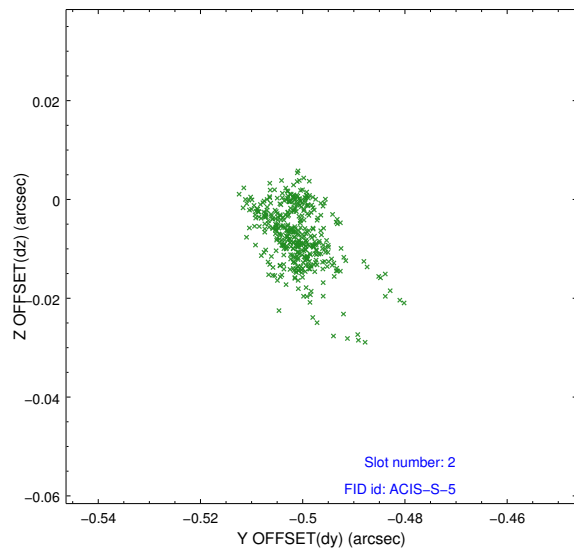
2.5.1 Slot 0



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)	2019.01.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.6926000131369

A.2 Comments