

V&V Reference Report

L2 ASCDS Version : 10.4

Observation 17681 - L2 Version 1
Chandra X-Ray Center

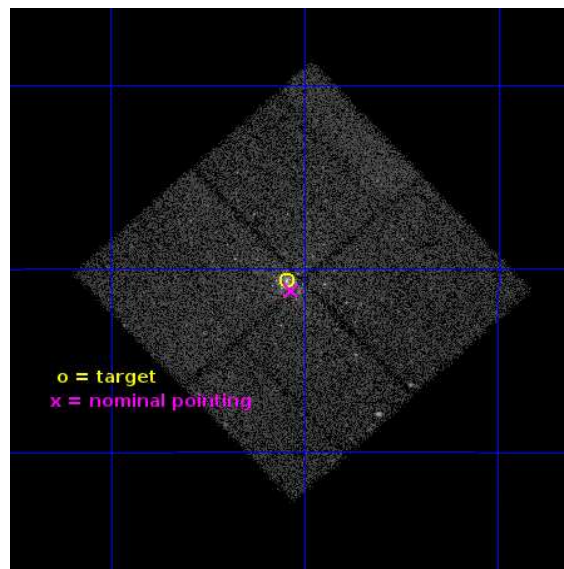
L2 Processing Date : Jun 16 2015

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1 Front

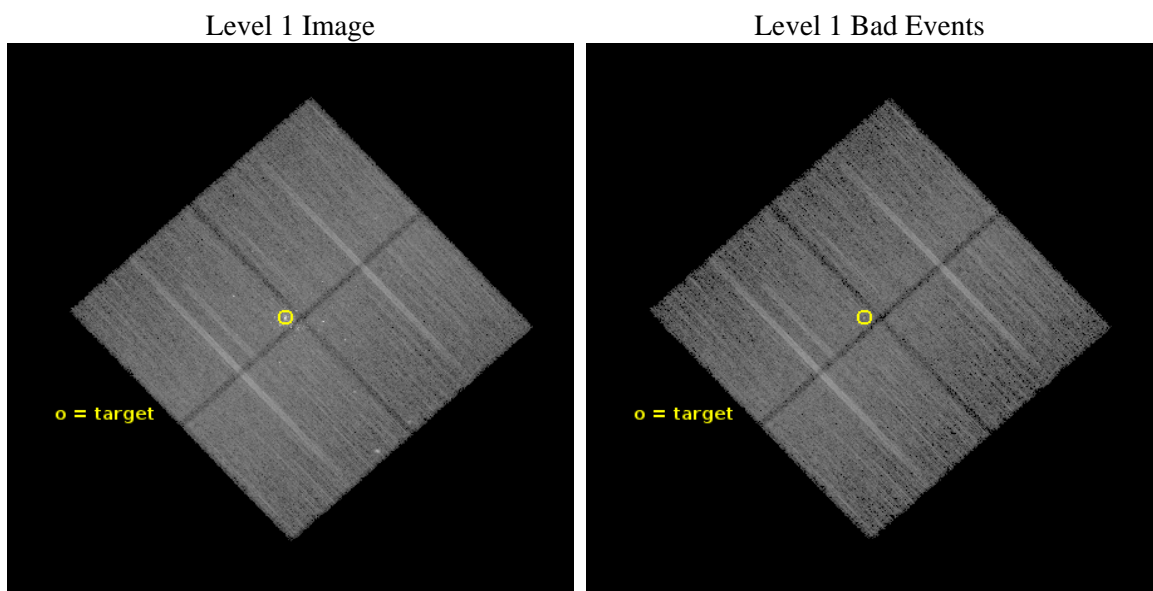
seq_num	200978	Sequence number
obs_id	17681	Observation id
title	RCW 38: A Unique Laboratory for the Formation and Dynamics of Young Star Clusters	Proposal title
observer	Prof. Eric Feigelson	Principal investigator
object	RCW 38	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	134.772917	Observer's specified target RA [deg]
dec_targ	-47.511111	Observer's specified target Dec [deg]
ra_nom	134.76694112367	Nominal RA [deg]
dec_nom	-47.520298271324	Nominal Dec [deg]
roll_nom	227.2042715824	Nominal Roll [deg]
revision	1	Processing version of data
ontime	40073.700308323	Sum of GTIs [s]
livetime	39550.107911966	Livetime [s]
ontime0	40070.559308171	Sum of GTIs [s]
ontime1	40073.700308323	Sum of GTIs [s]
ontime2	40073.700308323	Sum of GTIs [s]
ontime3	40073.700308323	Sum of GTIs [s]
l2events	94799	Number of level 2 events



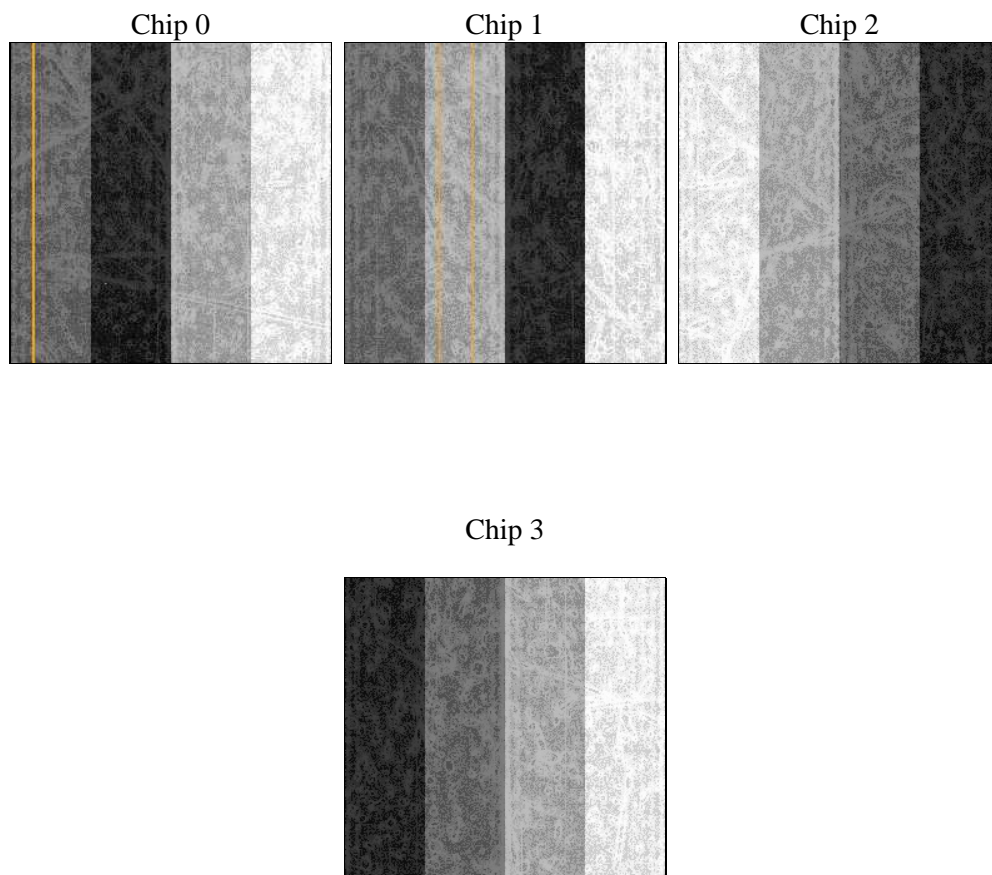
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	40000.000000	[s] Scheduled observation exposure time
ascdsver	10.4	Processing system revision	ontime	40073.700308323	Sum of GTIs [s]
caldsver	4.6.7	 	ontime0	40070.559308171	Sum of GTIs [s]
date	2015-06-16T06:56:54	Date and time of file creation	ontime1	40073.700308323	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	40073.700308323	Sum of GTIs [s]
			ontime3	40073.700308323	Sum of GTIs [s]
			l1events	791772	Number of level 1 events

2.1.4 Events

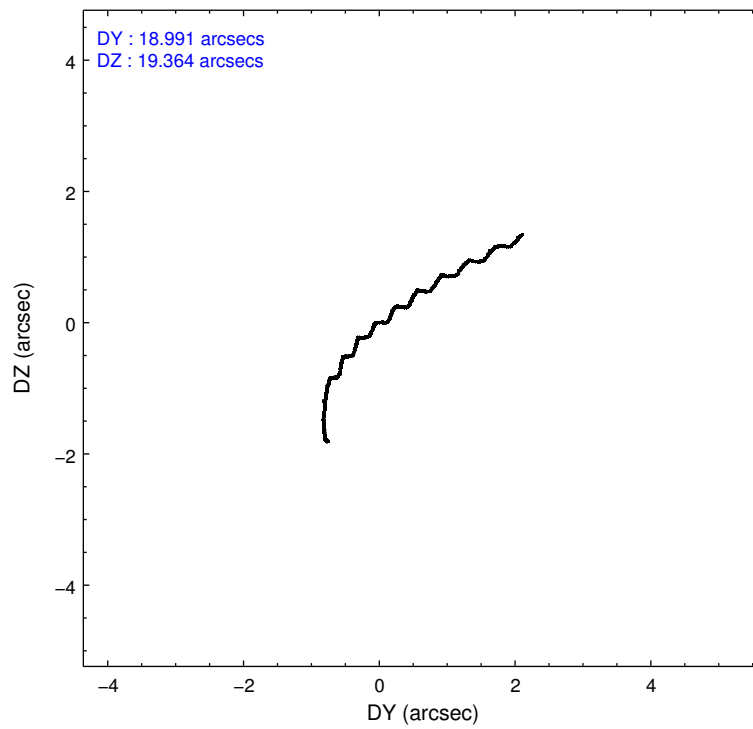
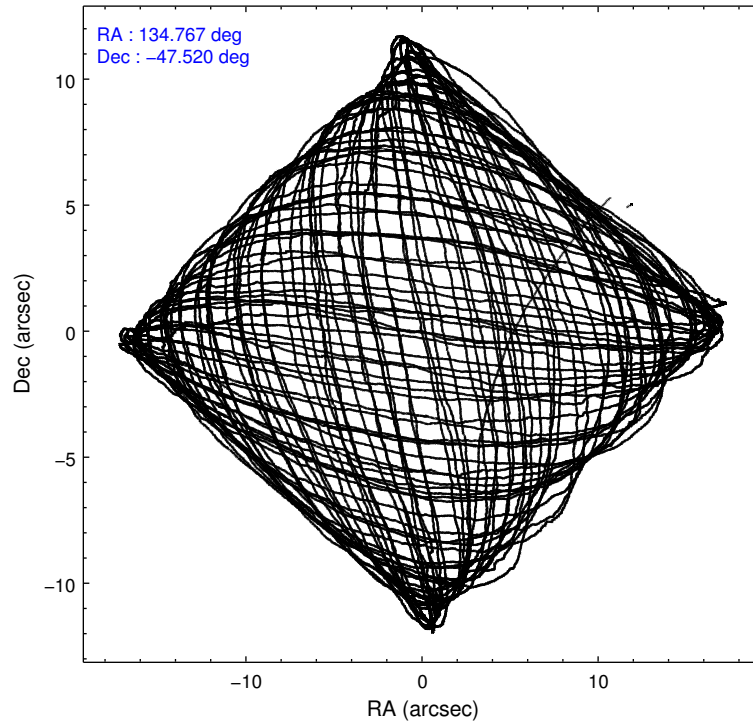
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	188024	191788	208223	203737
rejected events	162521	163923	182428	172251
rejected %	86%	85%	87%	84%

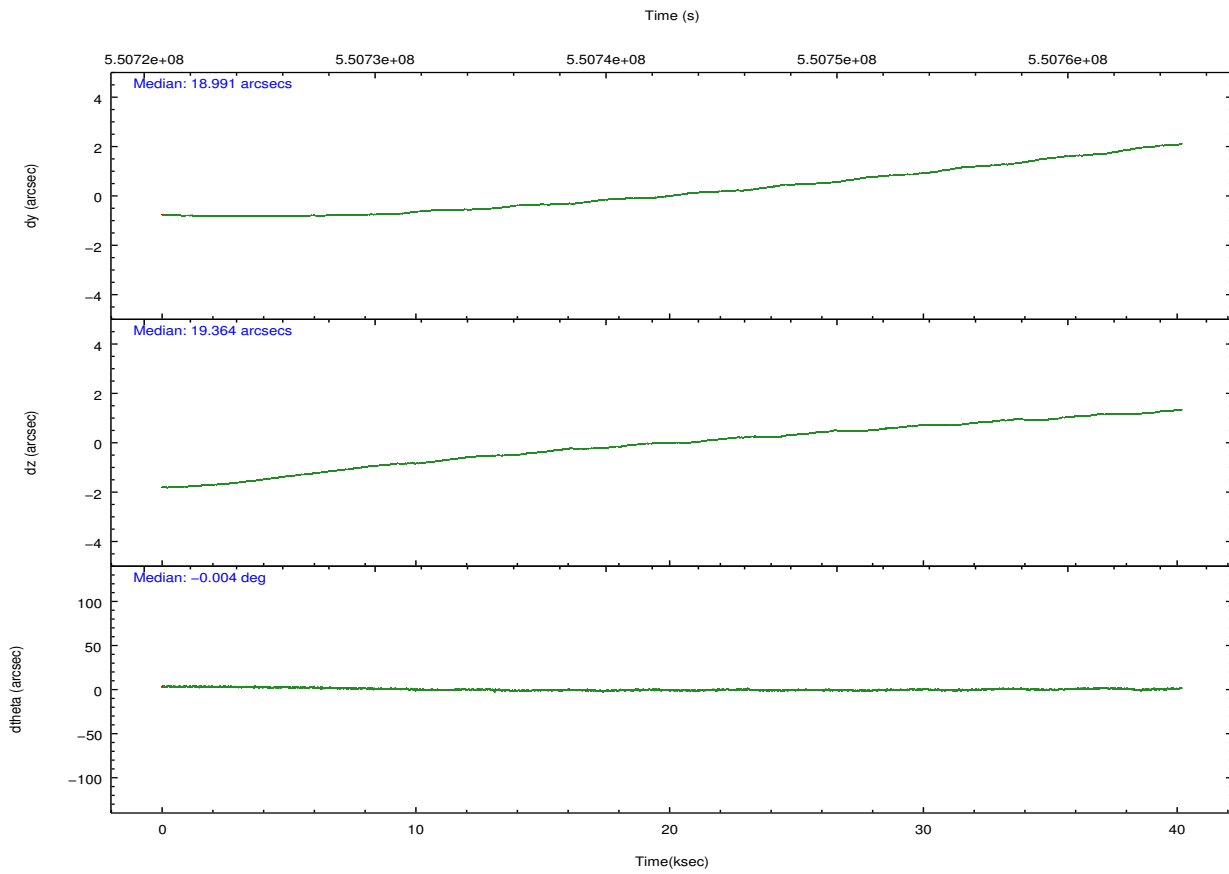
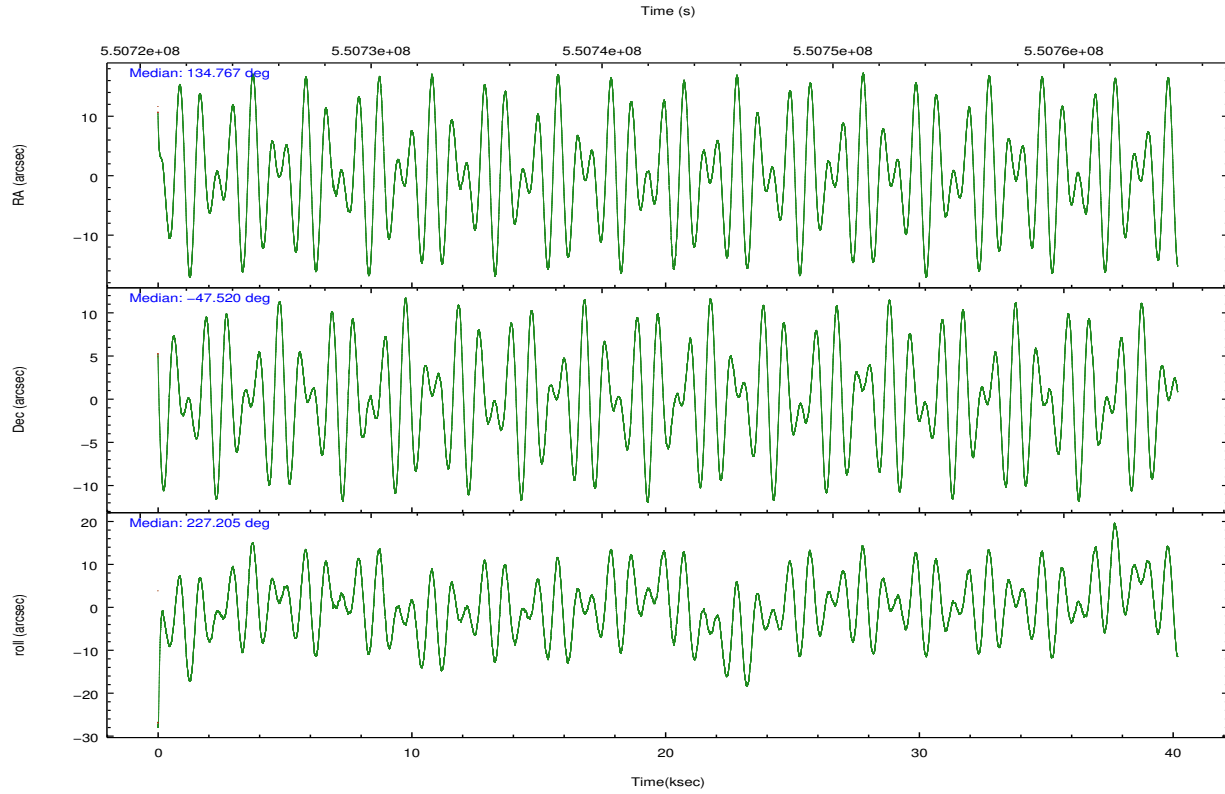
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	9760	10399	10414	15185
	5%	5%	5%	7%
grade 1 events	105	85	133	216
	0%	0%	0%	0%
grade 2 events	5998	6710	5878	5857
	3%	3%	2%	2%
grade 3 events	2507	2522	2482	2768
	1%	1%	1%	1%
grade 4 events	2337	2533	2438	2708
	1%	1%	1%	1%
grade 5 events	9003	9734	8495	10567
	4%	5%	4%	5%
grade 6 events	4904	5704	4587	4972
	2%	2%	2%	2%
grade 7 events	153410	154101	173796	161464
	81%	80%	83%	79%

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	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	134.775830	134.7669411236674	Subarray requested	NONE	NONE
[deg] Pointing Dec	-47.493349	-47.5202982713244	Alternating exposures requested	N	N
[deg] Pointing Roll	227.002145	227.204271582404	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	550722930.184000	550721957.25036			
Observation start date	2015-06-15T02:34:23	2015-06-15T02:19:17			
[s] Observation end time (MET)	550762930.184000	550763706.0152			
Observation end date	2015-06-15T13:41:03	2015-06-15T13:55:06			
Read mode	TIMED	TIMED			

2.3 Aspect





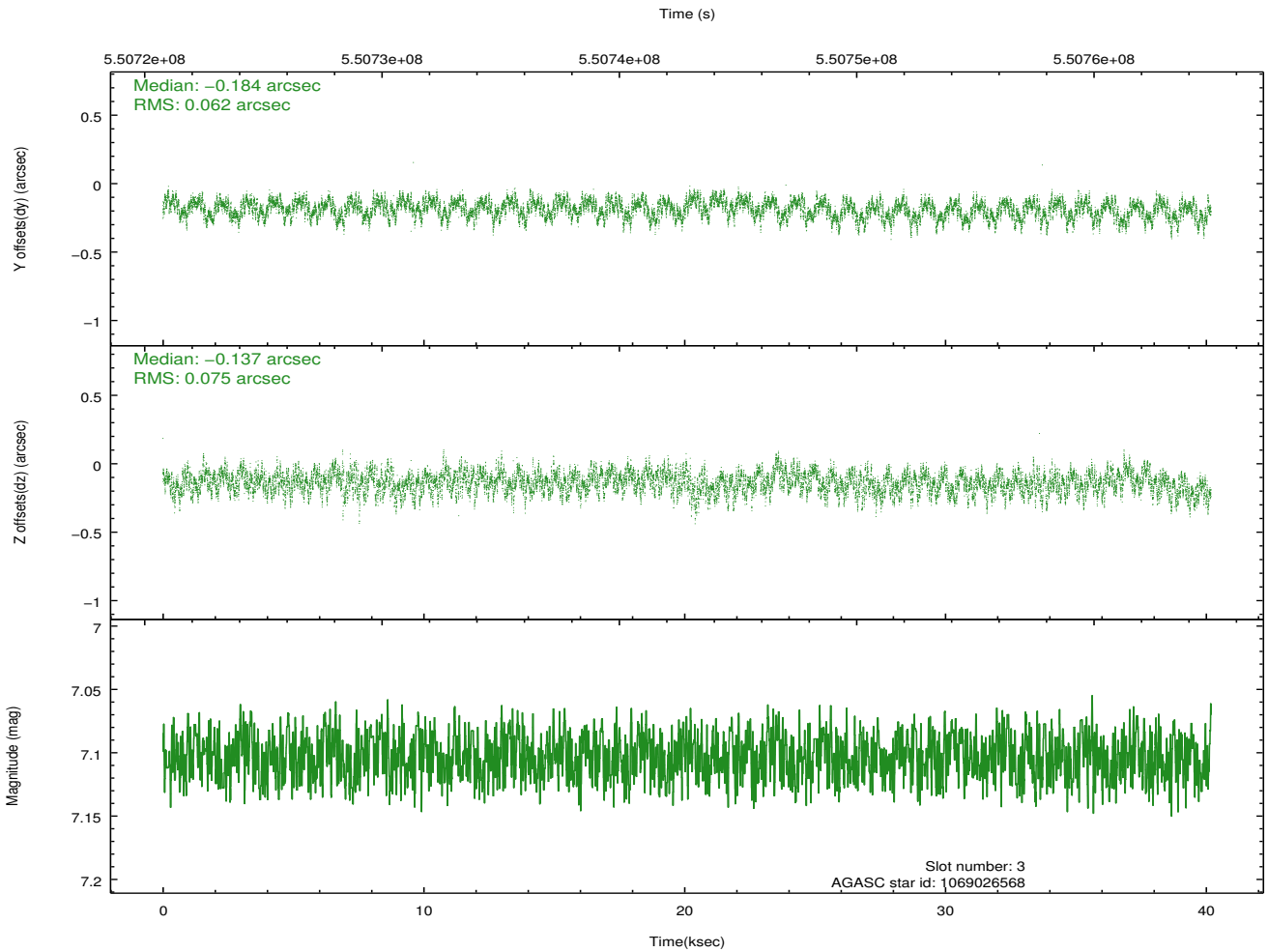
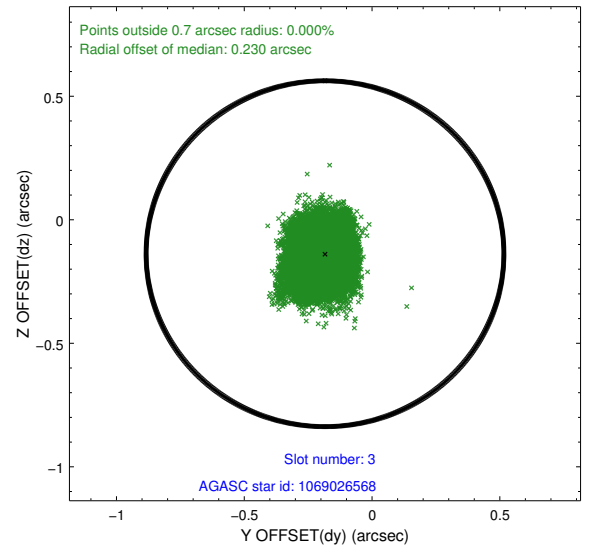
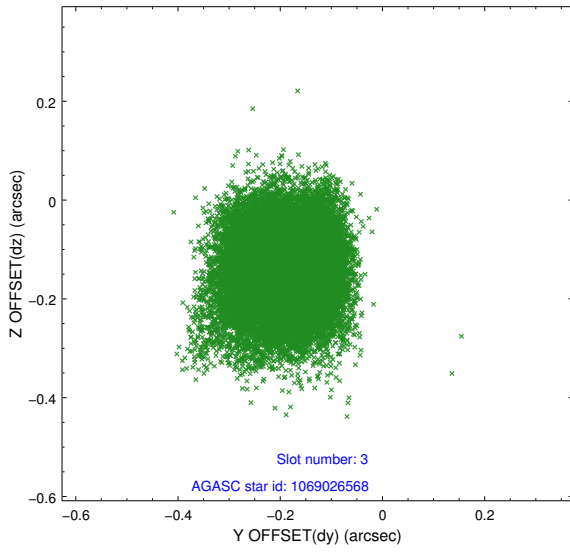
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.16	9802	0.059	0.002	0.026	0.054	0.000000	0.000000	920.22	-842.95
1	FID		ACIS-I-5	7.16	9801	-0.317	0.038	0.011	0.021	0.000000	0.000000	-1828.32	1054.47
2	FID		ACIS-I-6	7.16	9801	0.165	0.029	0.024	0.047	0.000000	0.000000	385.76	1699.07
3	GUIDE	used	1069026568	7.10	19600	-0.184	-0.137	0.104	0.167	134.843519	-48.291320	1990.32	2078.11
4	GUIDE	used	1070729248	8.71	19594	0.175	0.432	0.124	0.199	135.048995	-47.118313	-1442.97	-430.15
5	GUIDE	used	1070729768	7.00	19602	-0.127	0.091	0.095	0.160	136.024083	-47.441445	-2191.79	2112.14
6	GUIDE	used	1070731648	8.04	19601	0.138	-0.074	0.079	0.133	135.285038	-47.251382	-1482.79	318.20
7	GUIDE	used	1070729592	7.33	19602	-0.002	-0.306	0.064	0.105	135.107946	-47.337671	-961.42	211.47

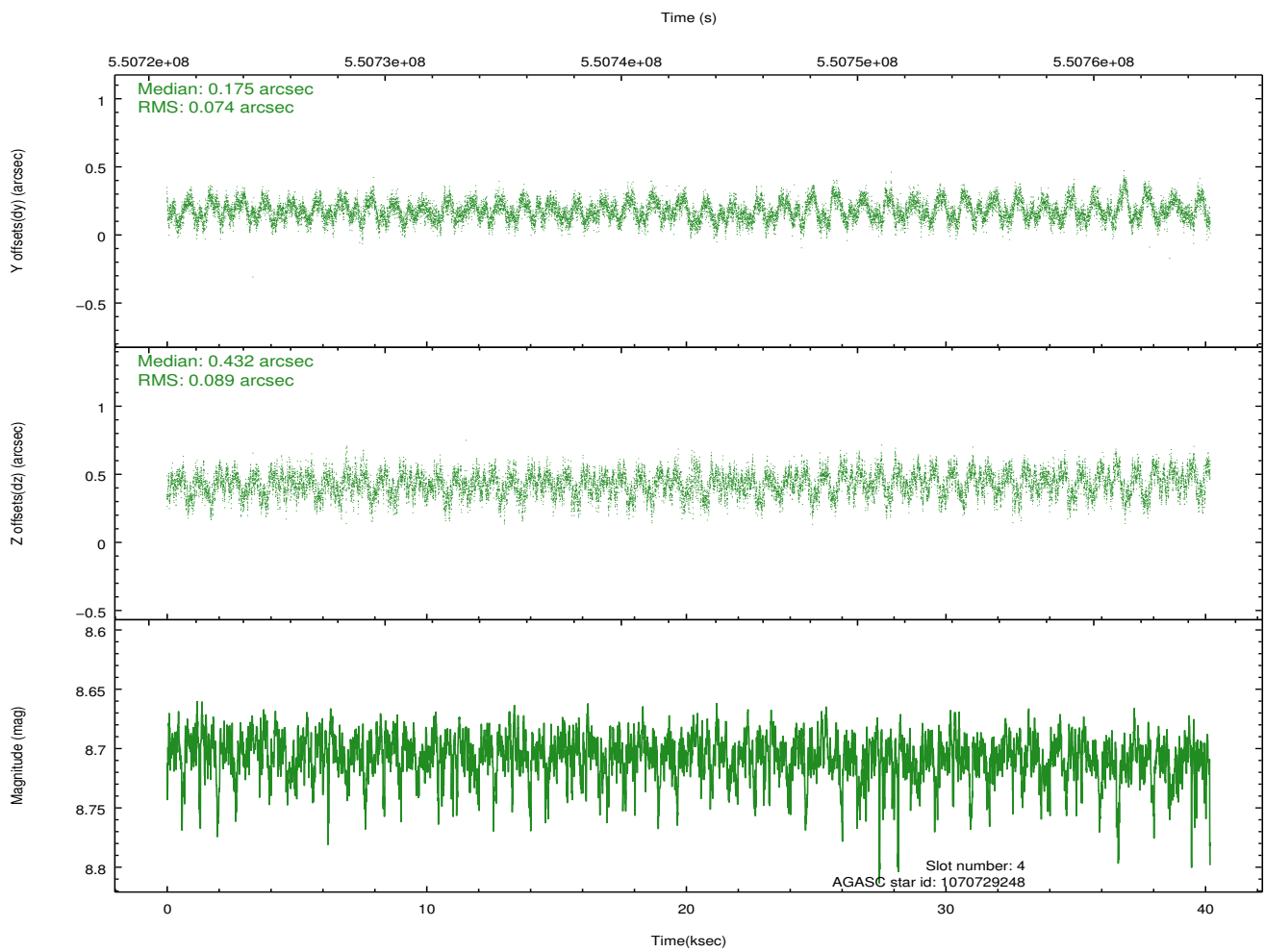
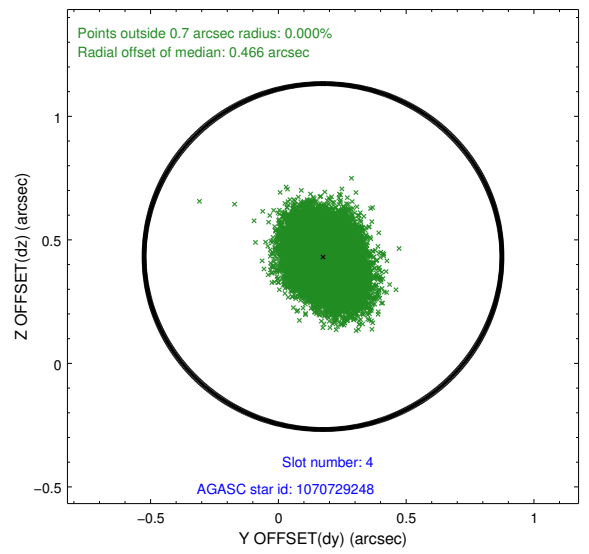
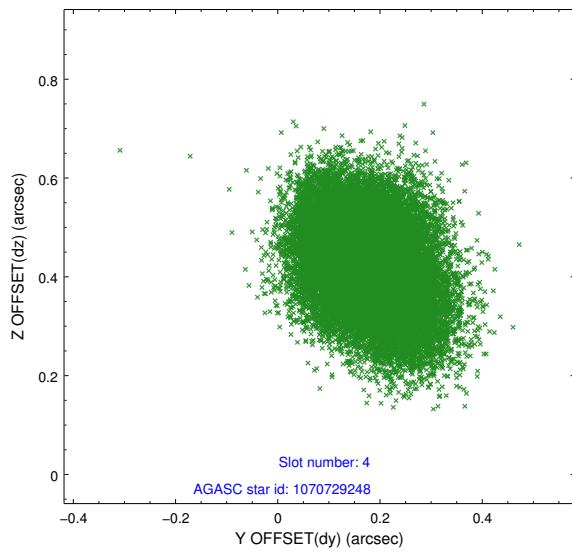
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2.4 Star Slots

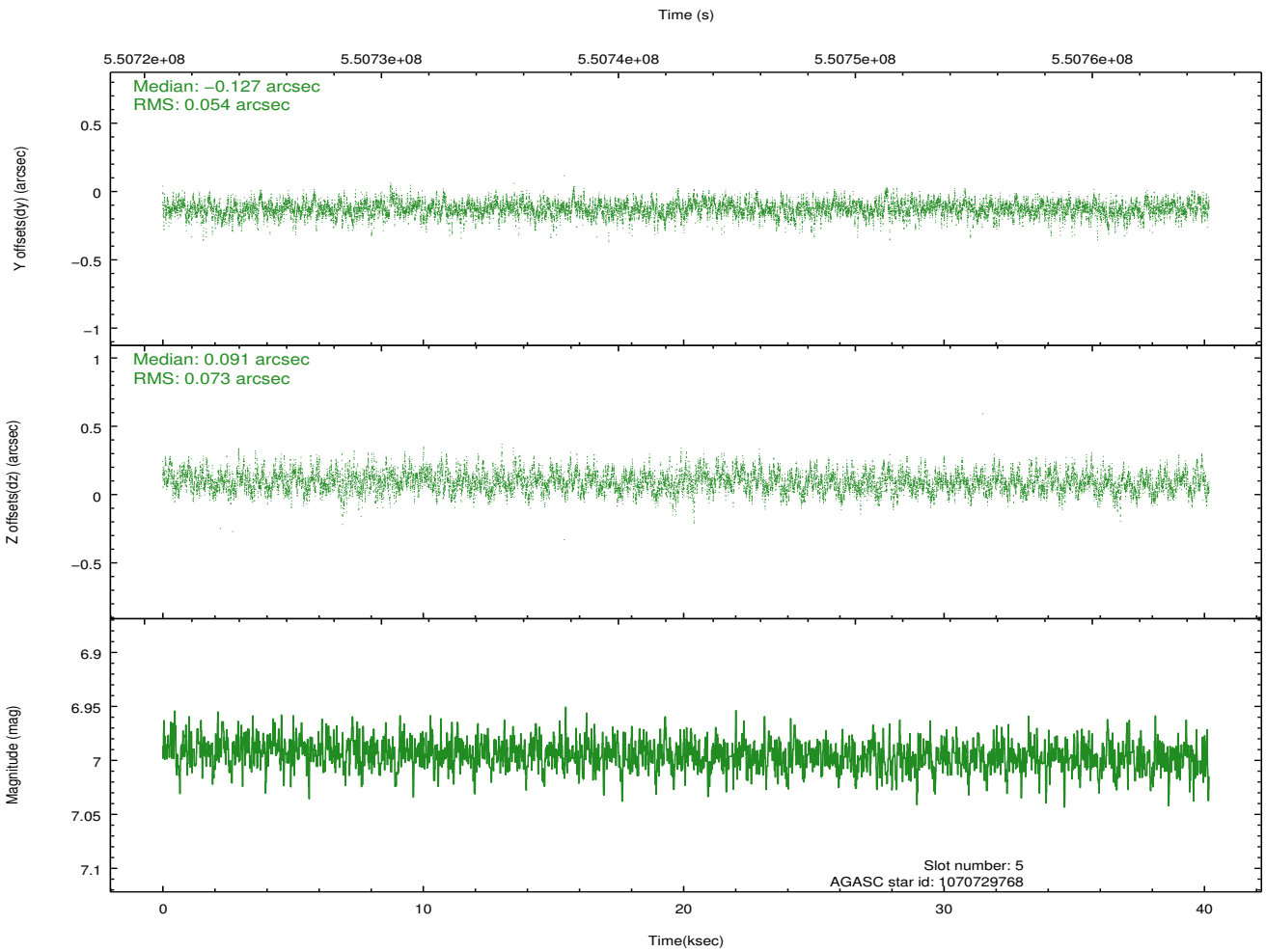
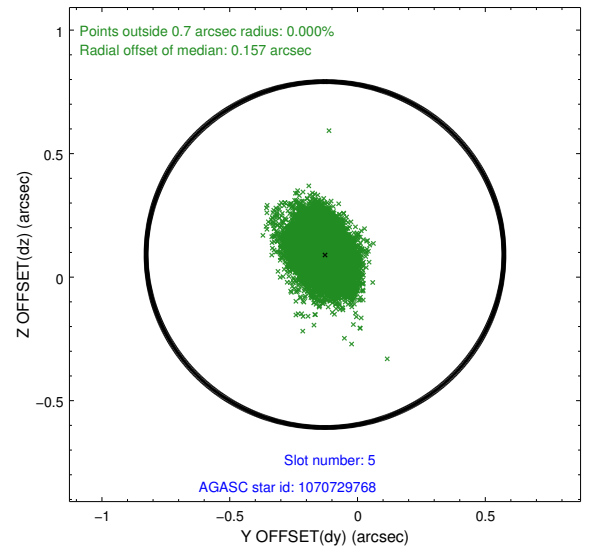
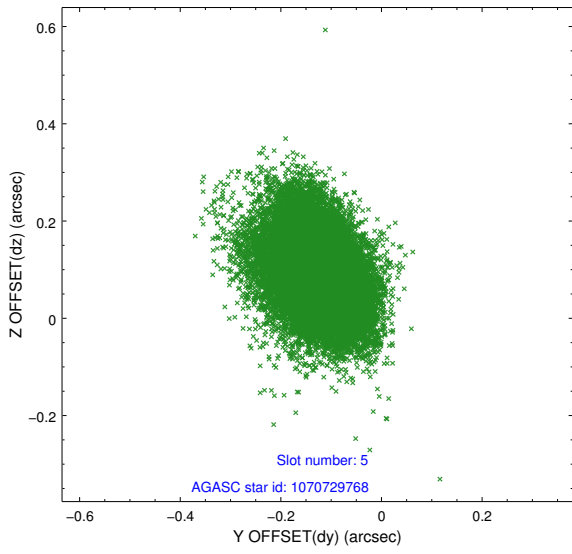
2.4.1 Slot 3



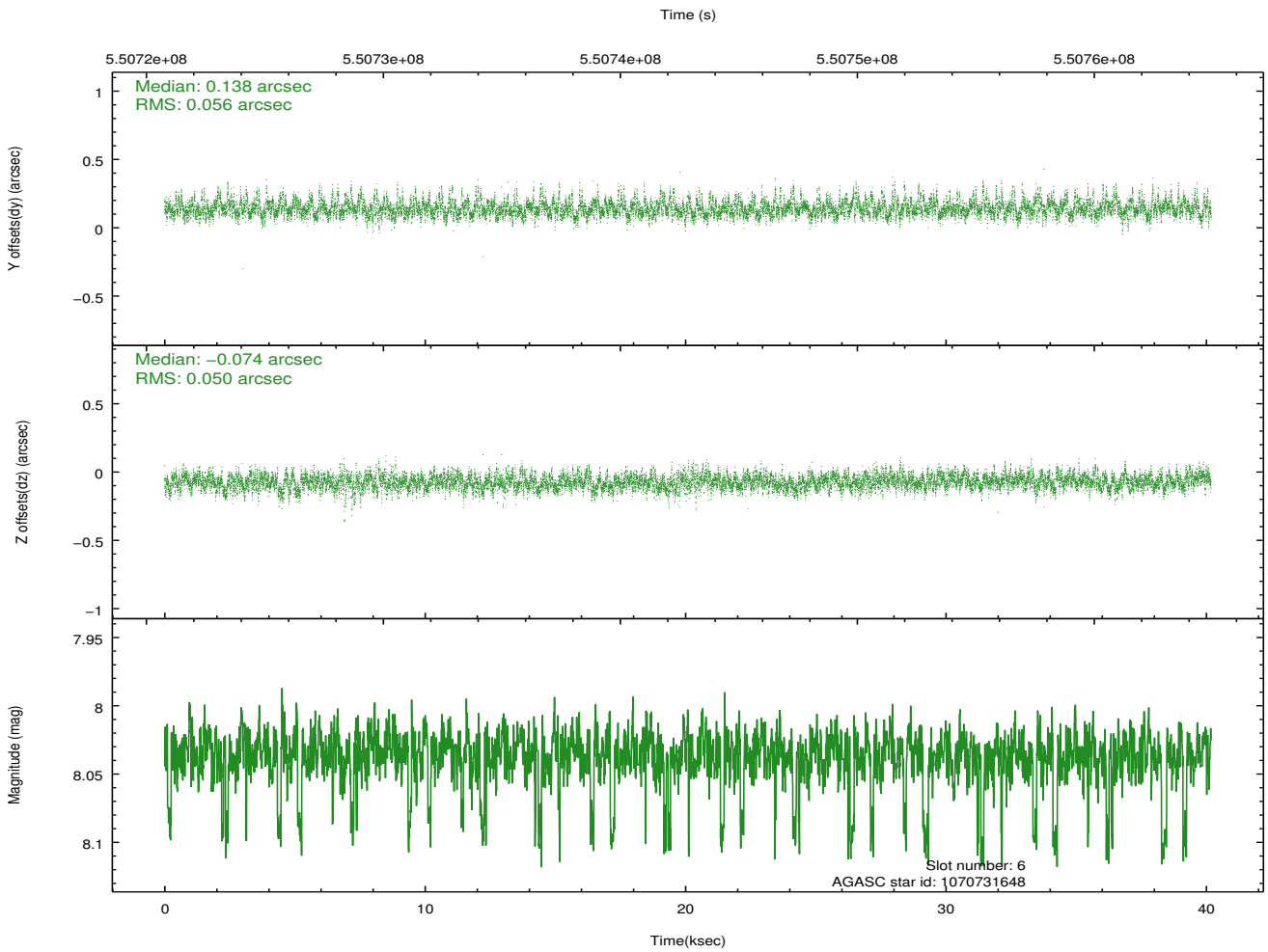
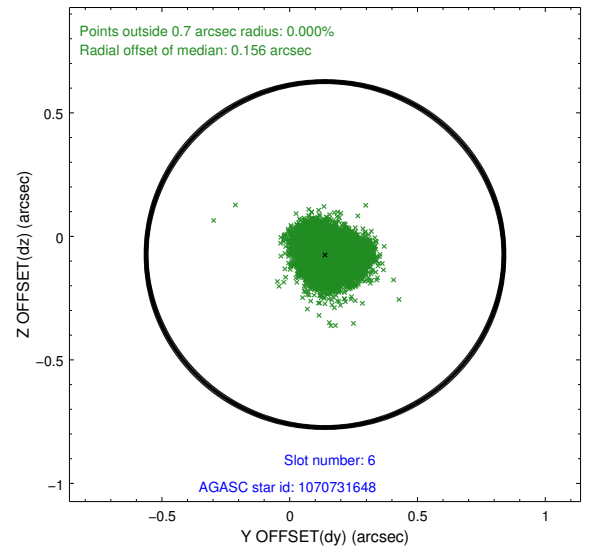
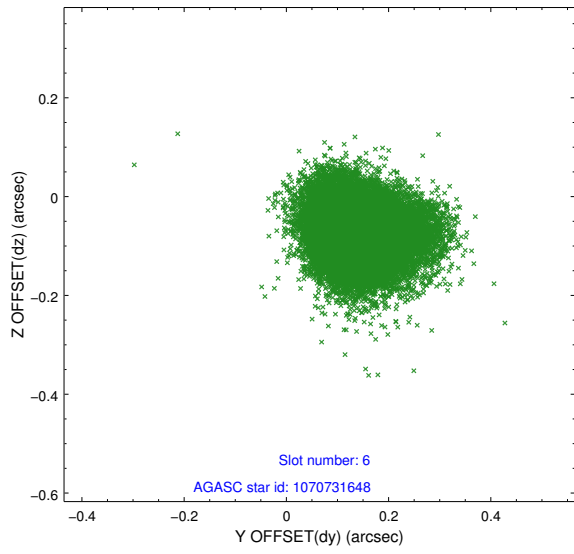
2.4.2 Slot 4



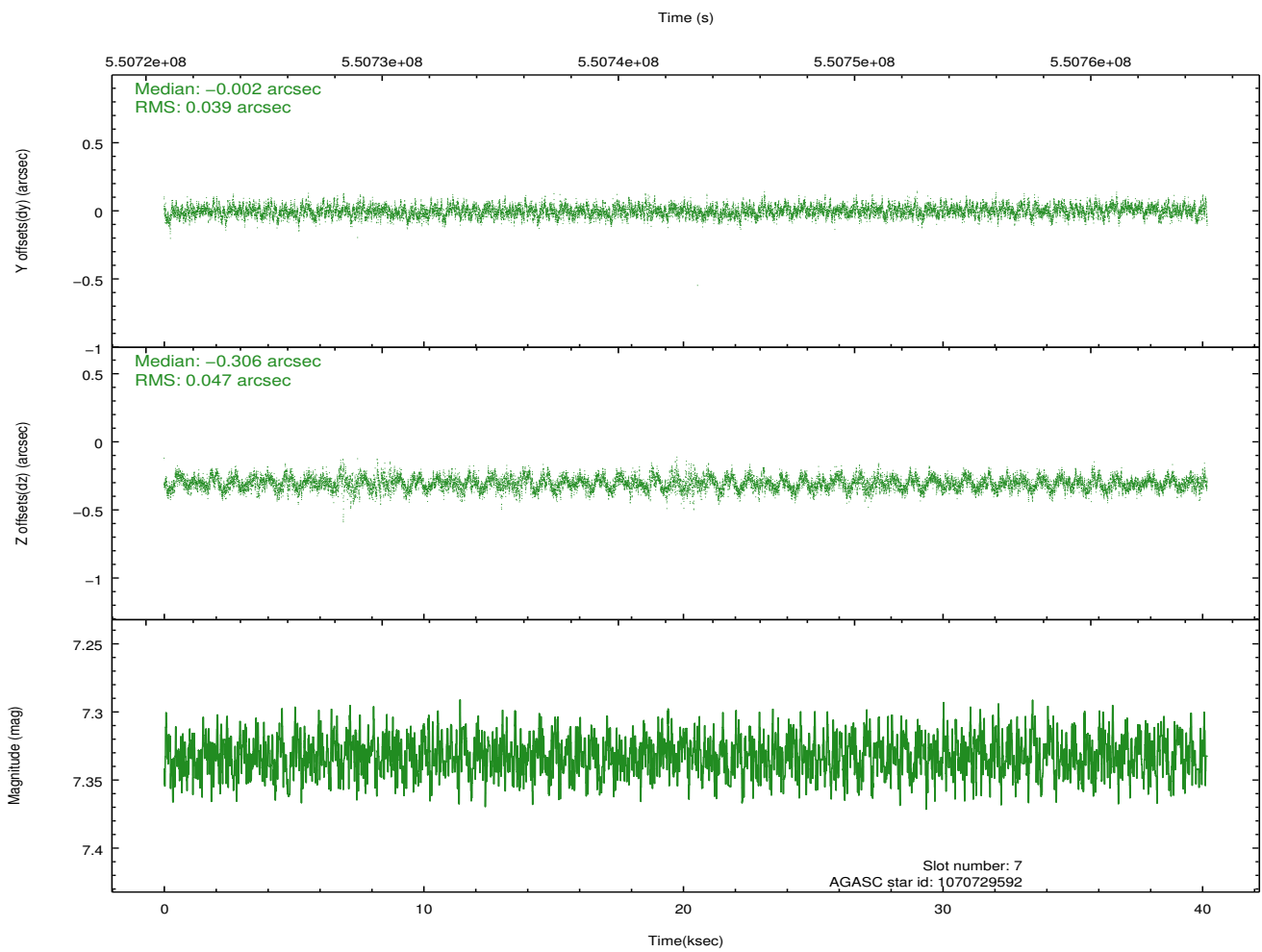
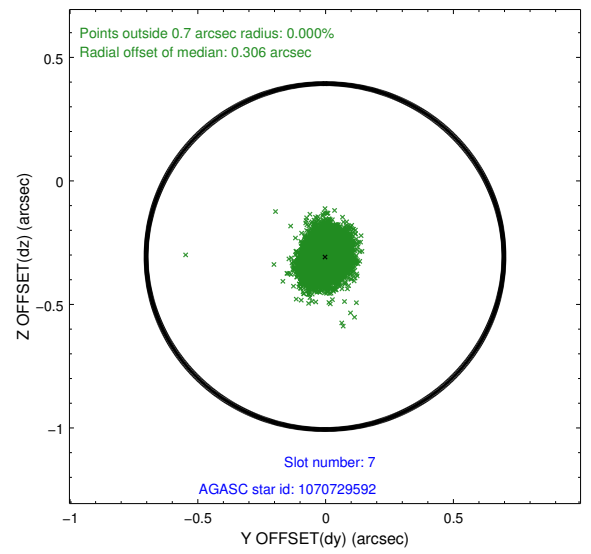
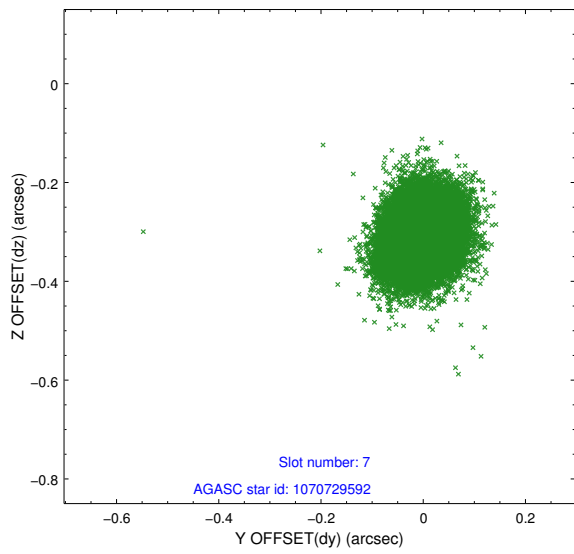
2.4.3 Slot 5



2.4.4 Slot 6

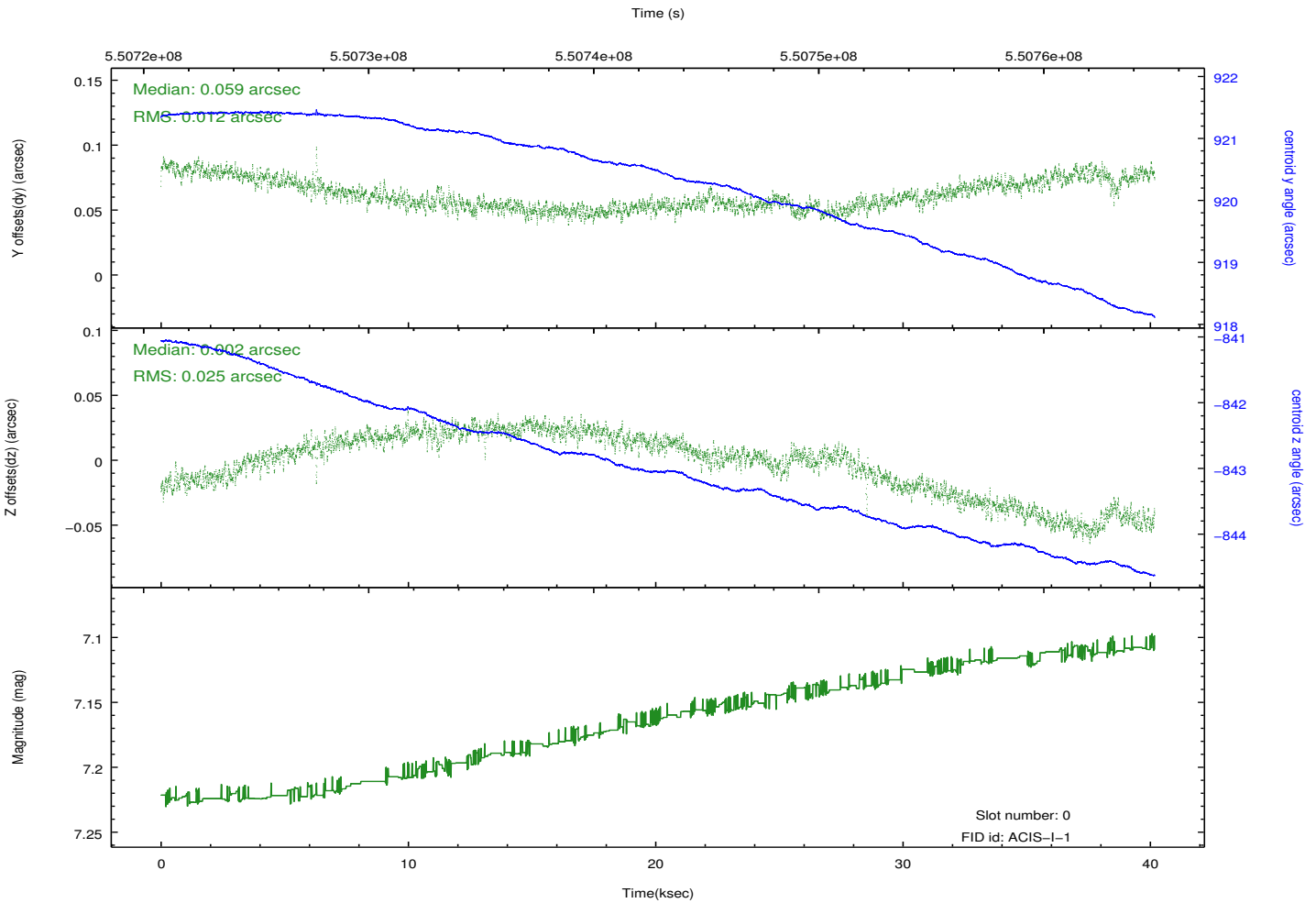
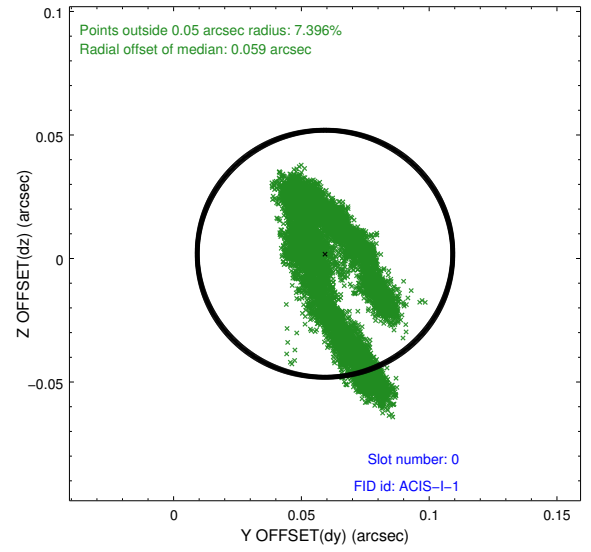
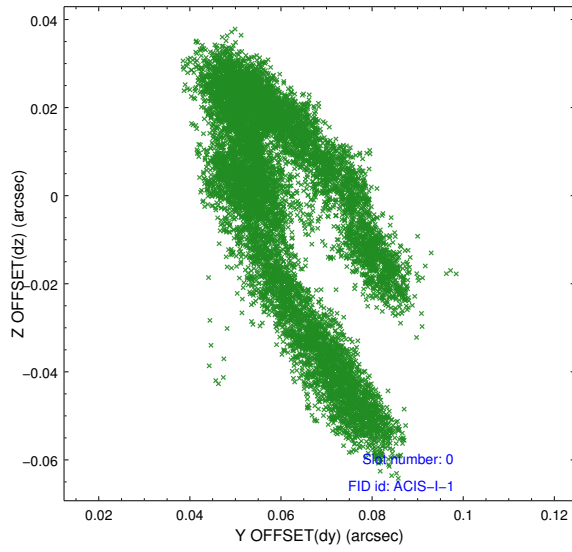


2.4.5 Slot 7

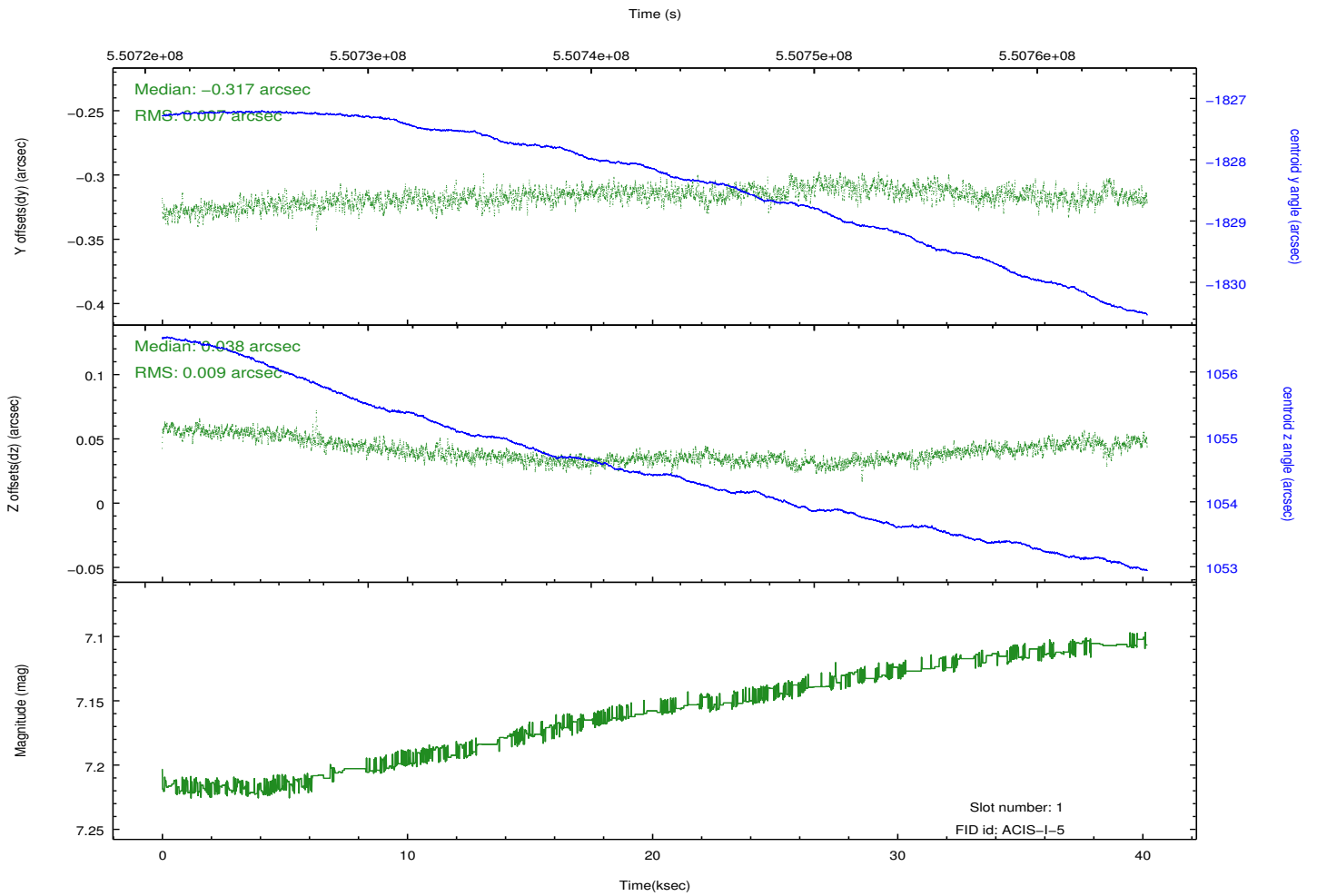
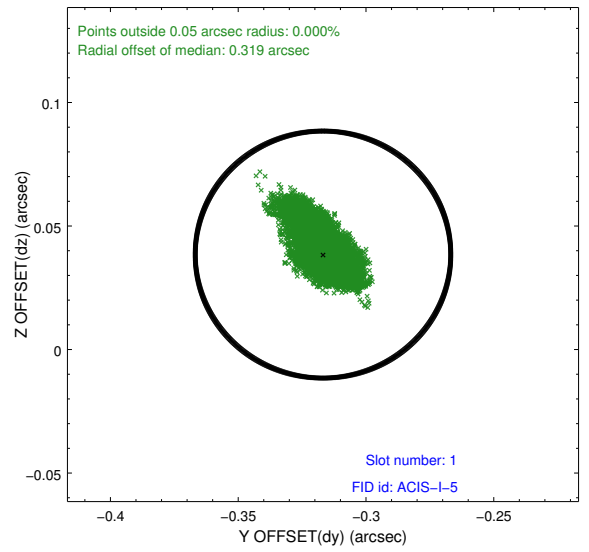
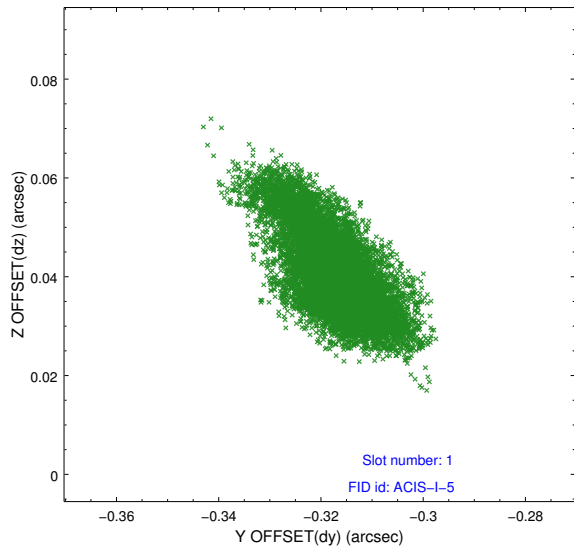


2.5 FID Slots

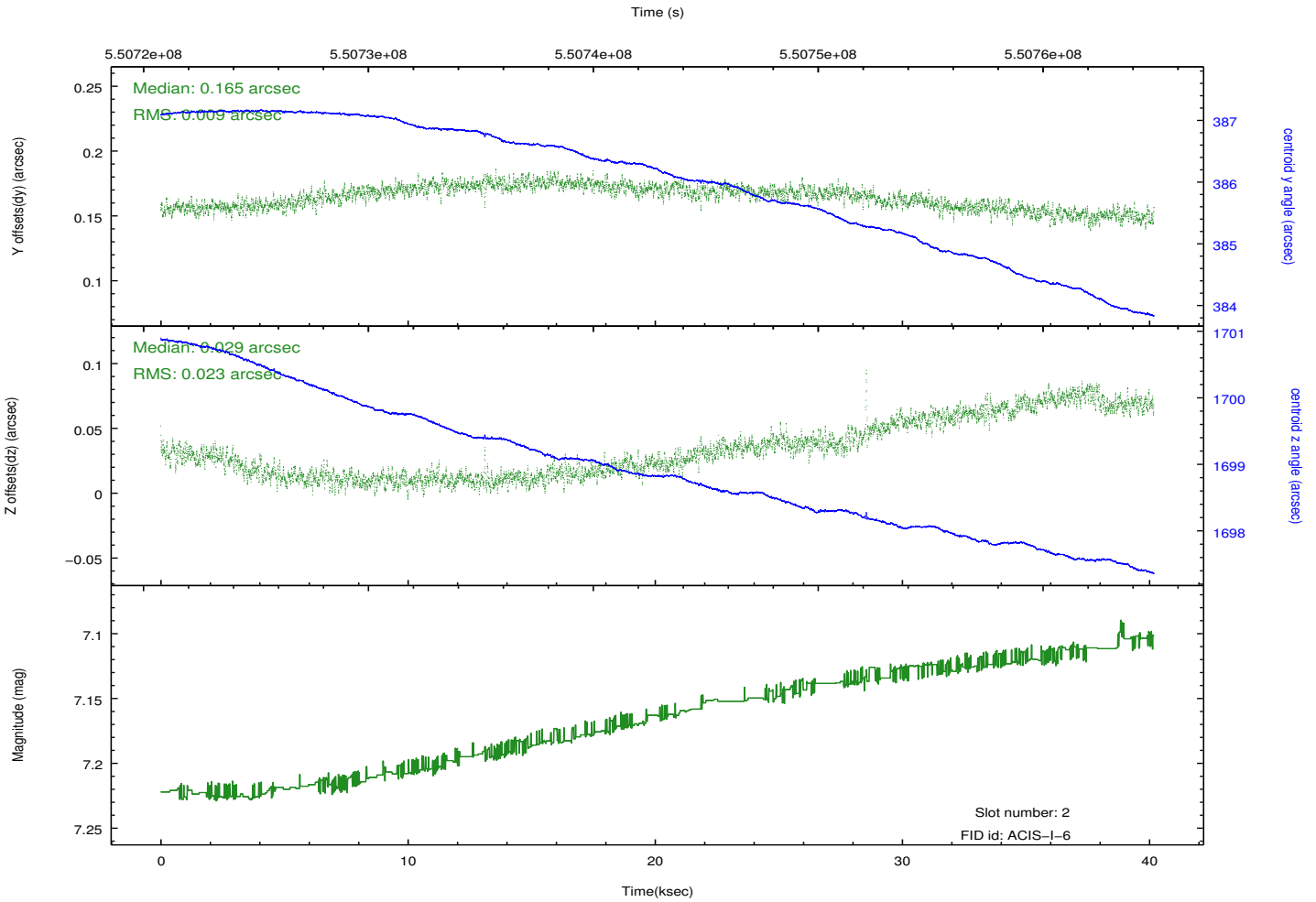
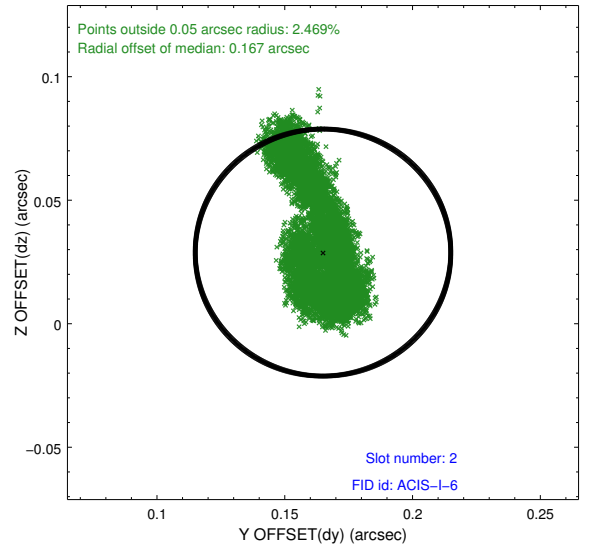
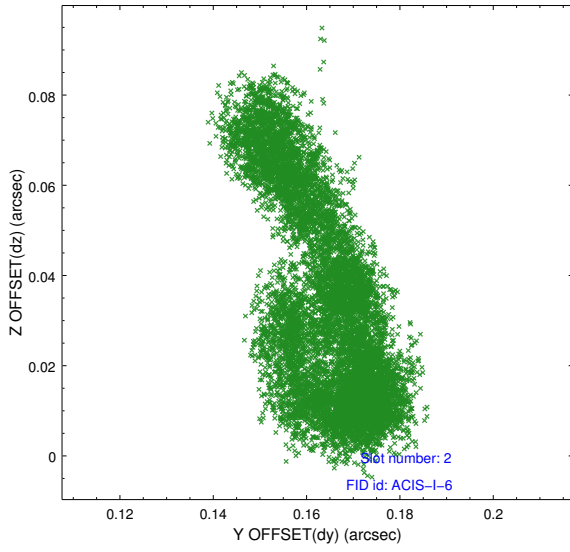
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2015.06.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.073700308323

A.2 Comments