

V&V Reference Report

L2 ASCDS Version : 10.4.2.1

Observation 17014 - L2 Version 2
Chandra X-Ray Center

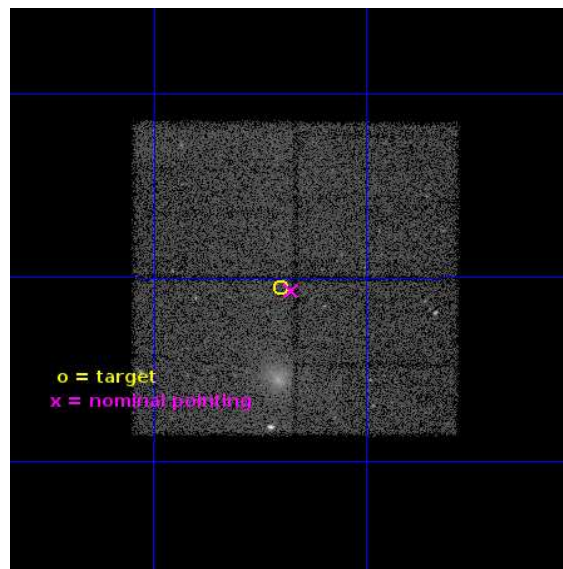
L2 Processing Date : Oct 14 2015

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1 Front

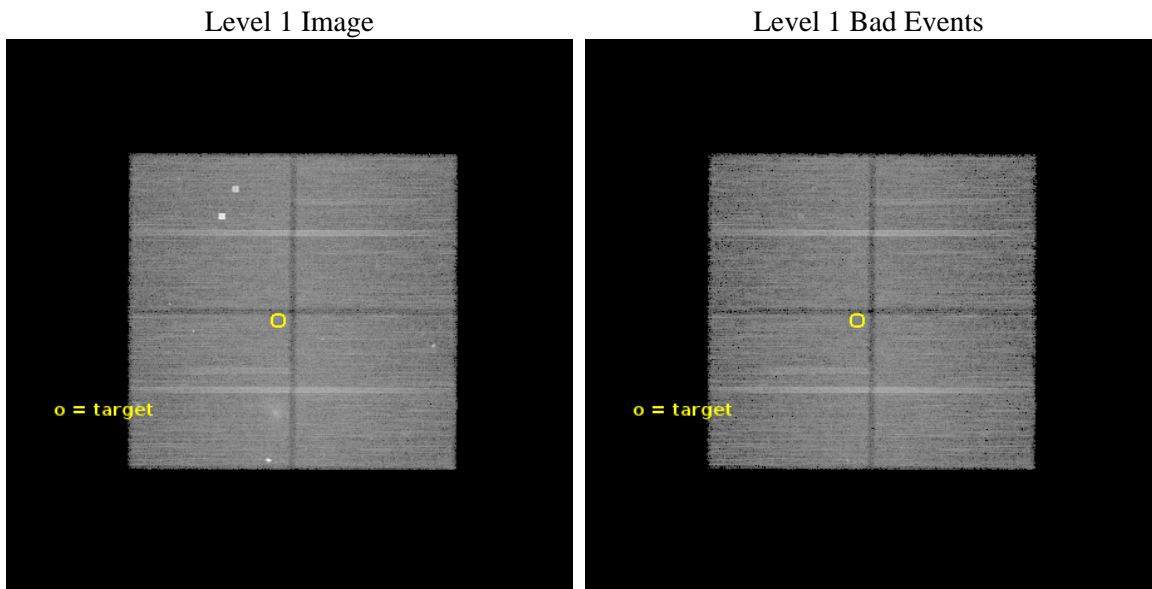
seq_num	601207	Sequence number
obs_id	17014	Observation id
title	A Chandra Legacy Survey of the Disk of M31	Proposal title
observer	Dr. Benjamin Williams	Principal investigator
object	PHAT B21	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	11.6008	Observer's specified target RA [deg]
dec_targ	42.158	Observer's specified target Dec [deg]
ra_nom	11.58803371363	Nominal RA [deg]
dec_nom	42.154691189141	Nominal Dec [deg]
roll_nom	180.21725144841	Nominal Roll [deg]
revision	2	Processing version of data
ontime	49789.100383043	Sum of GTIs [s]
livetime	49138.569132336	Livetime [s]
ontime0	49779.642477393	Sum of GTIs [s]
ontime1	49789.100383043	Sum of GTIs [s]
ontime2	49785.959312677	Sum of GTIs [s]
ontime3	49789.100383043	Sum of GTIs [s]
l2events	111162	Number of level 2 events



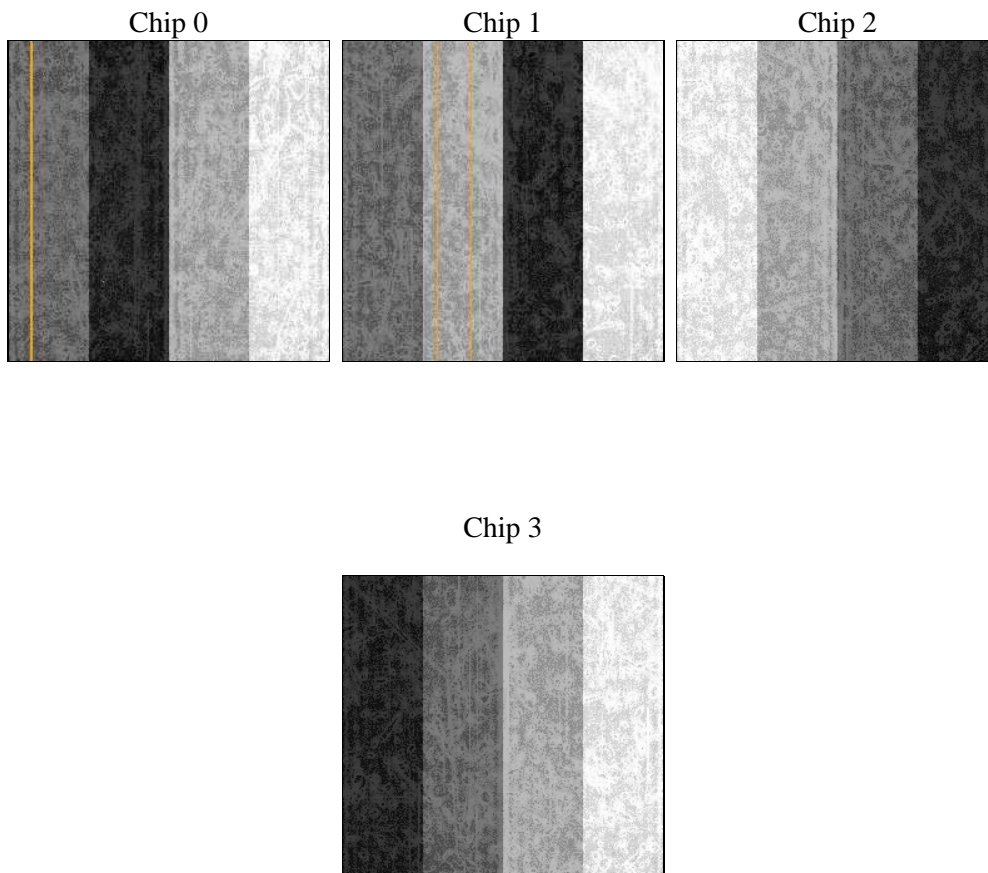
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	50000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.2.1	Processing system revision	ontime	49789.100383043	Sum of GTIs [s]
caldsver	4.6.10a	 	ontime0	49779.642477393	Sum of GTIs [s]
date	2015-10-14T19:53:09	Date and time of file creation	ontime1	49789.100383043	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	49785.959312677	Sum of GTIs [s]
			ontime3	49789.100383043	Sum of GTIs [s]
			l1events	1076564	Number of level 1 events

2.1.4 Events

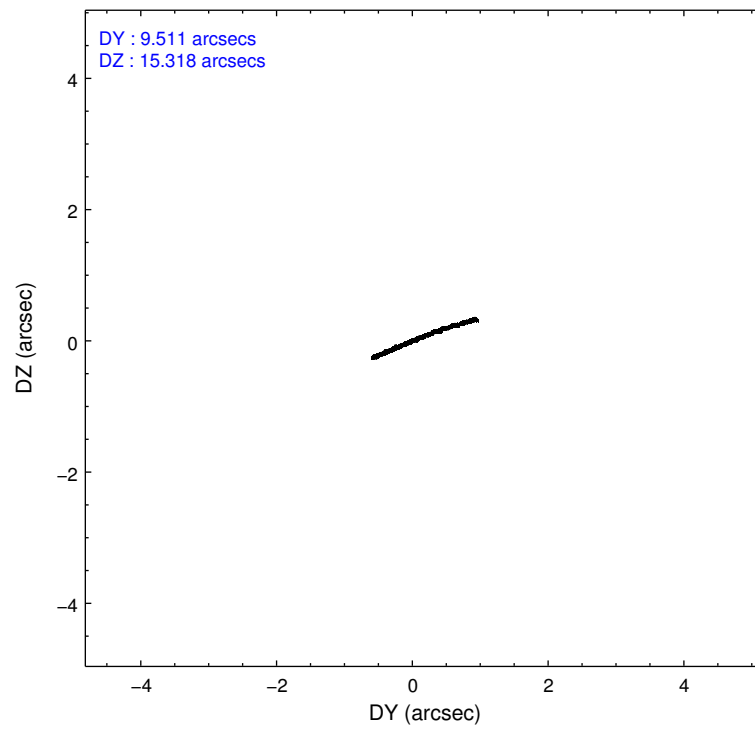
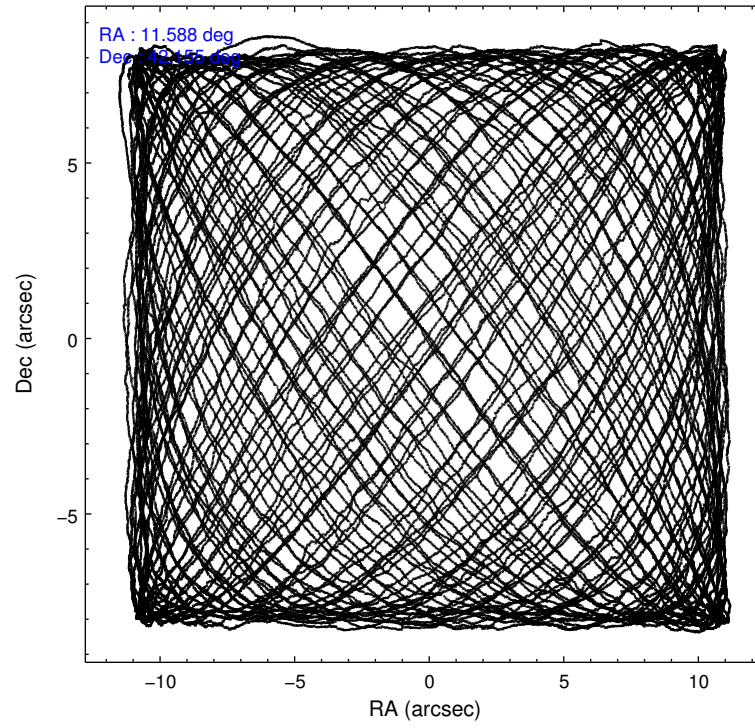
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	247076	269410	277135	282943
rejected events	217907	217997	247245	243301
rejected %	88%	80%	89%	85%

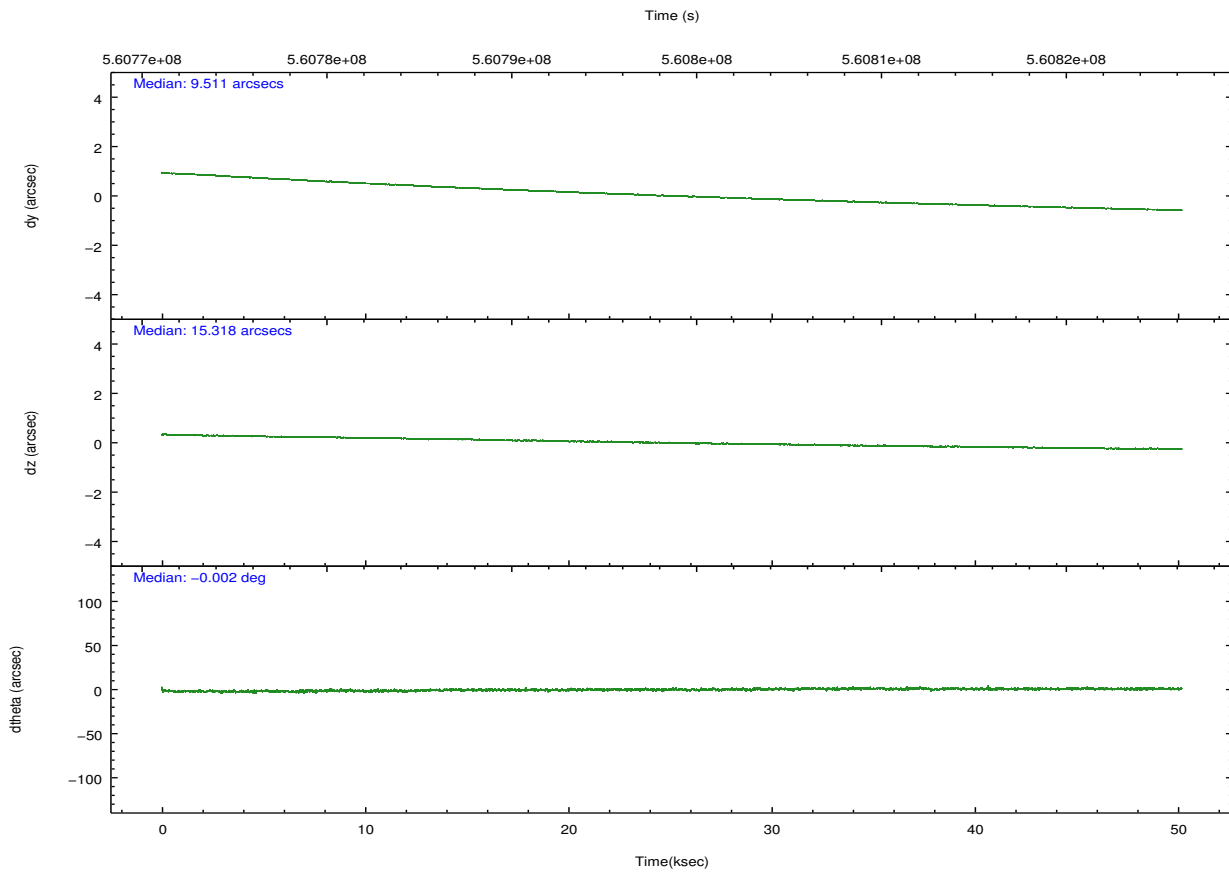
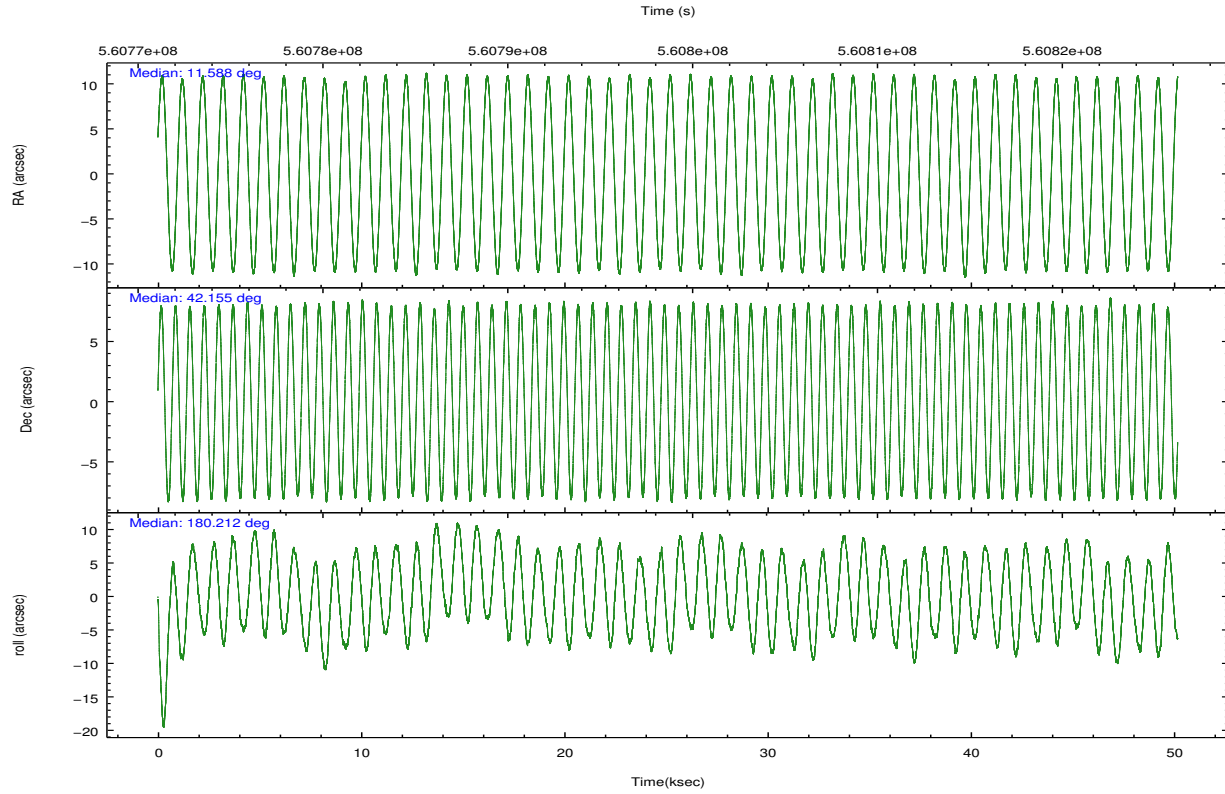
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	9881	30214	11393	18687
	3%	11%	4%	6%
grade 1 events	118	238	154	202
	0%	0%	0%	0%
grade 2 events	7189	7417	6855	7413
	2%	2%	2%	2%
grade 3 events	2950	2957	2917	3473
	1%	1%	1%	1%
grade 4 events	2813	2967	2955	3485
	1%	1%	1%	1%
grade 5 events	11196	12165	10367	13358
	4%	4%	3%	4%
grade 6 events	6338	7868	5773	6591
	2%	2%	2%	2%
grade 7 events	206591	205584	236721	229734
	83%	76%	85%	81%

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	11.620144	11.58803371363019	Subarray requested	NONE	NONE
[deg] Pointing Dec	42.168670	42.15469118914139	Alternating exposures requested	N	N
[deg] Pointing Roll	179.987016	180.2172514484059	[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)	560773720.184000	560773253.64341			
Observation start date	2015-10-09T10:27:32	2015-10-09T10:20:53			
[s] Observation end time (MET)	560823720.184000	560824879.30883			
Observation end date	2015-10-10T00:20:52	2015-10-10T00:41:19			
Read mode	TIMED	TIMED			

2.3 Aspect





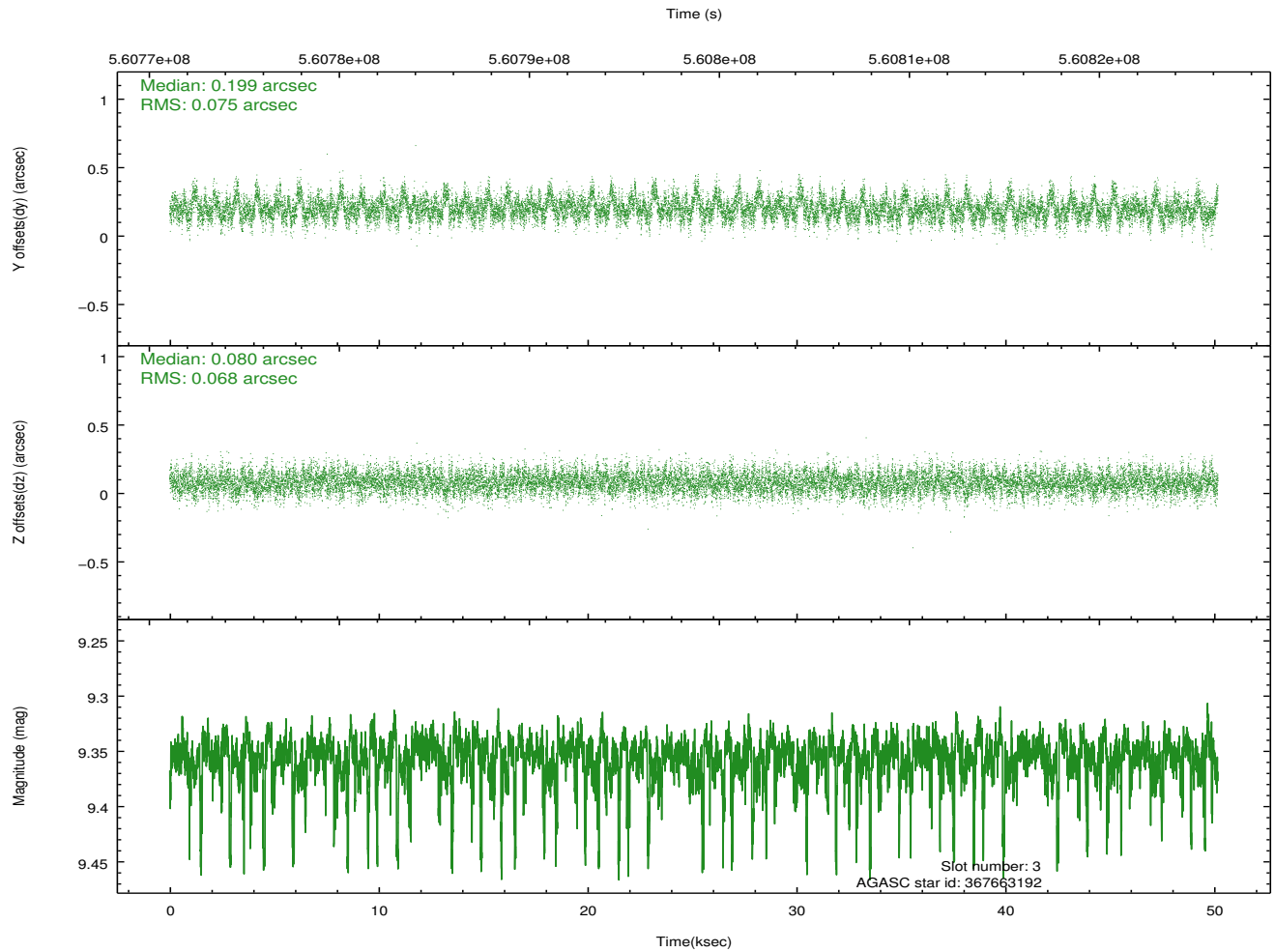
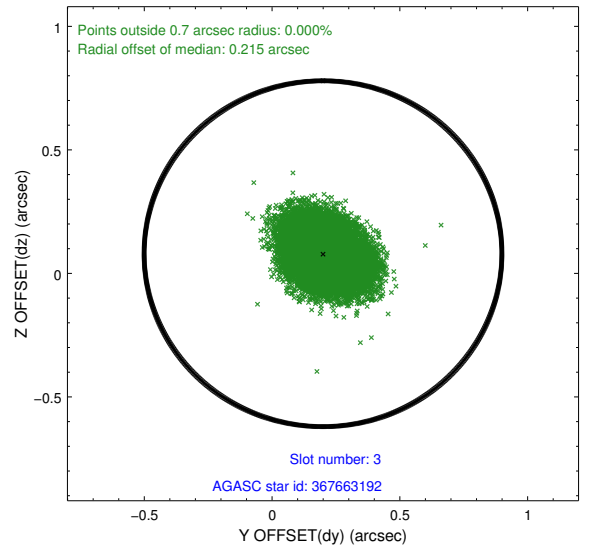
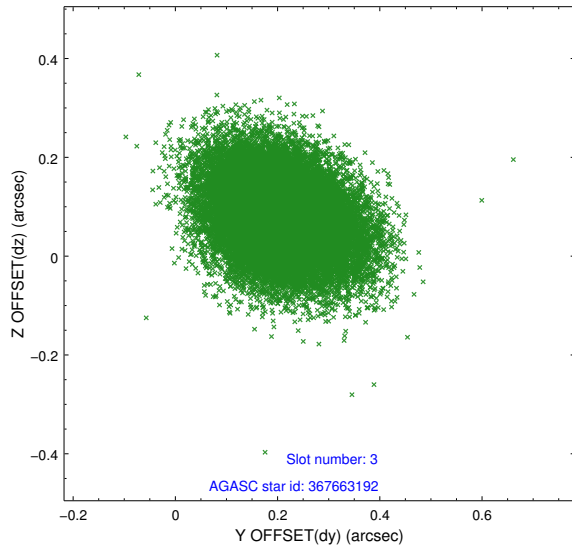
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-2	7.16	12238	-0.195	-0.119	0.015	0.023	0.000000	0.000000	-764.34	-845.42
1	FID		ACIS-I-4	7.19	12237	0.371	0.136	0.010	0.016	0.000000	0.000000	2150.31	1060.99
2	FID		ACIS-I-5	7.25	12240	-0.277	0.053	0.017	0.025	0.000000	0.000000	-1818.26	1058.77
3	GUIDE	used	367663192	9.35	24458	0.199	0.080	0.106	0.177	12.302074	41.754093	-1831.51	1484.81
4	GUIDE	used	367667384	8.64	24475	-0.040	-0.138	0.110	0.179	12.077552	41.596878	-1232.05	2054.80
5	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
6	GUIDE	used	367670520	9.22	24456	-0.048	0.198	0.120	0.198	11.265516	42.371946	943.43	-732.87
7	GUIDE	used	367674552	8.82	24409	-0.121	-0.134	0.098	0.161	11.016238	41.570845	1625.84	2147.03

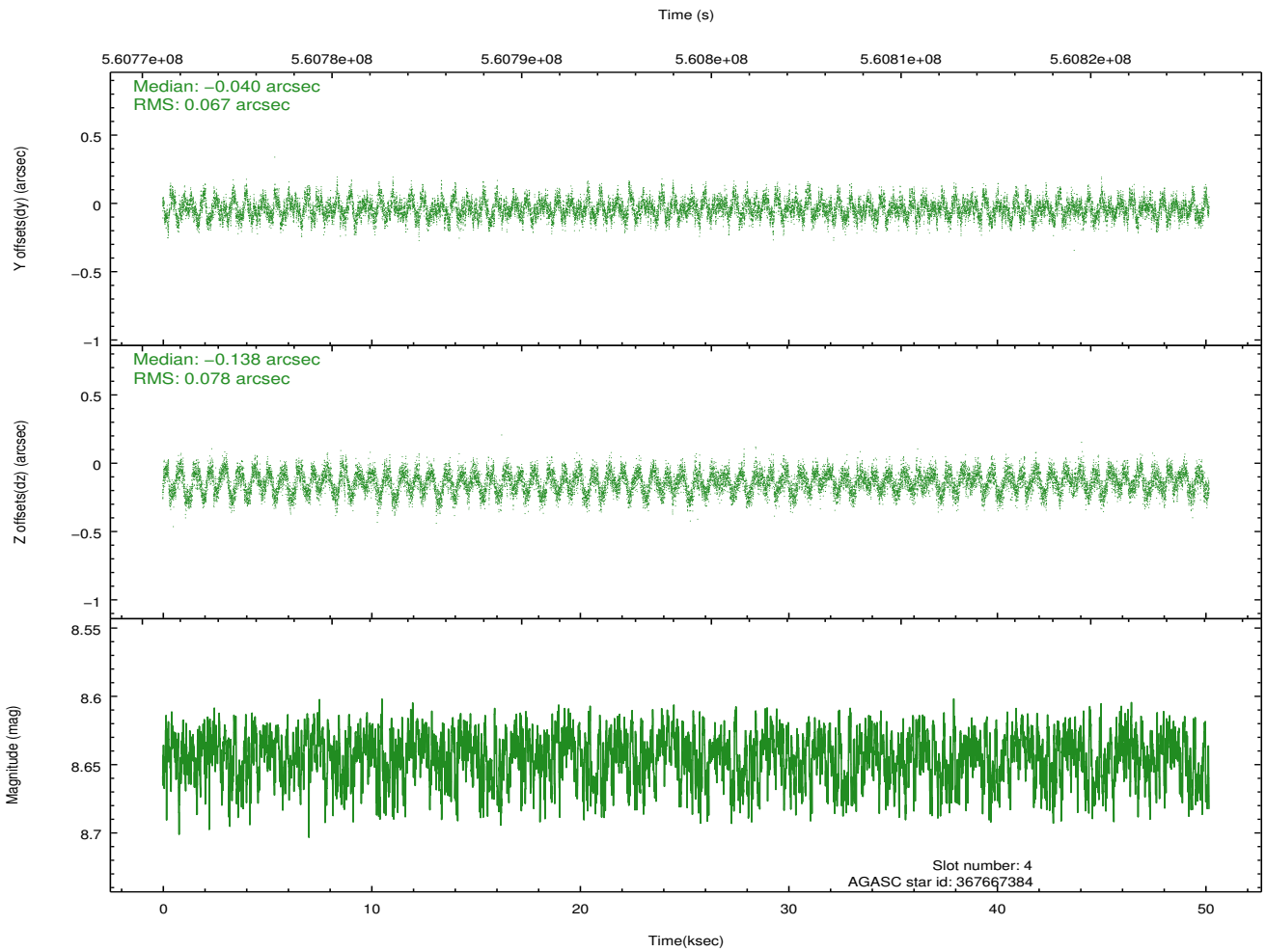
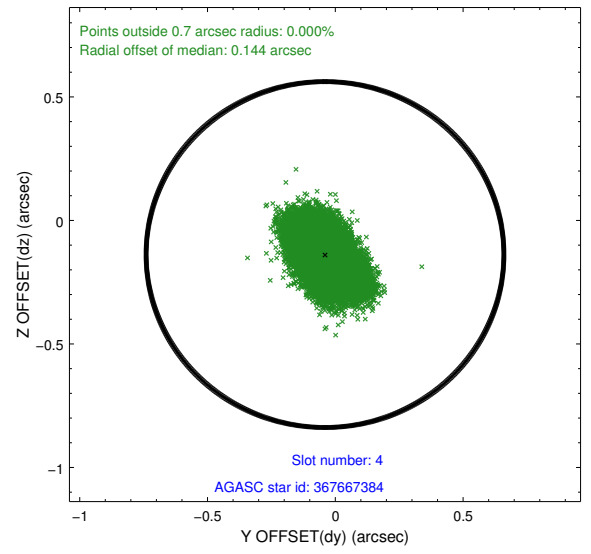
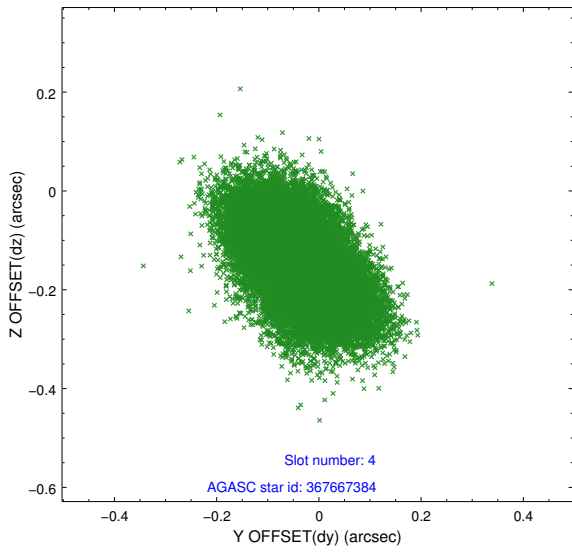
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2.4 Star Slots

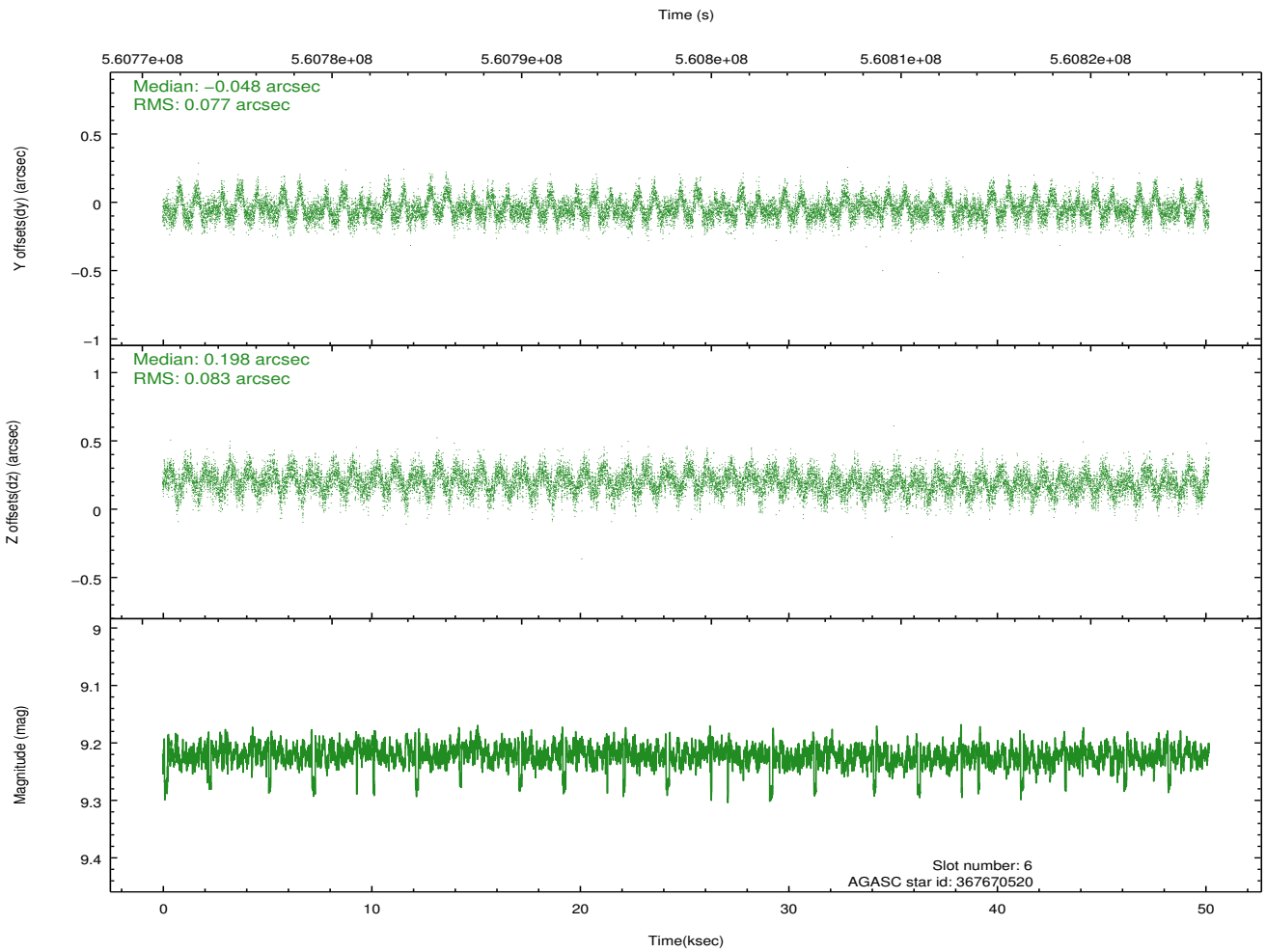
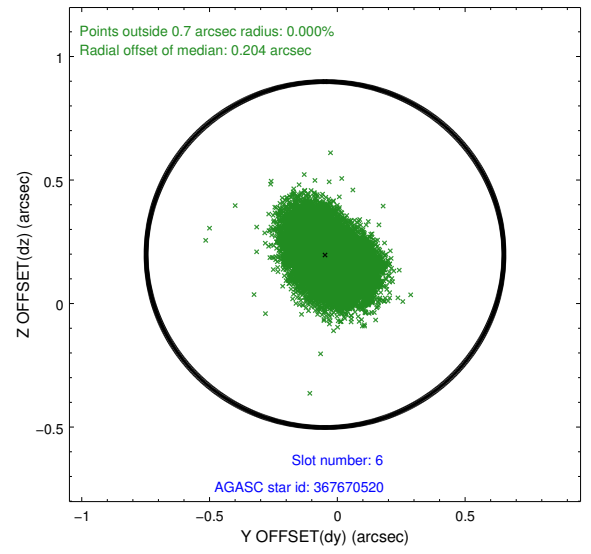
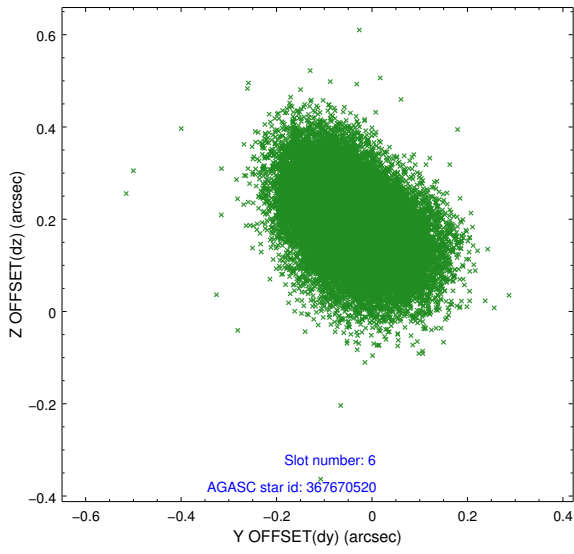
2.4.1 Slot 3



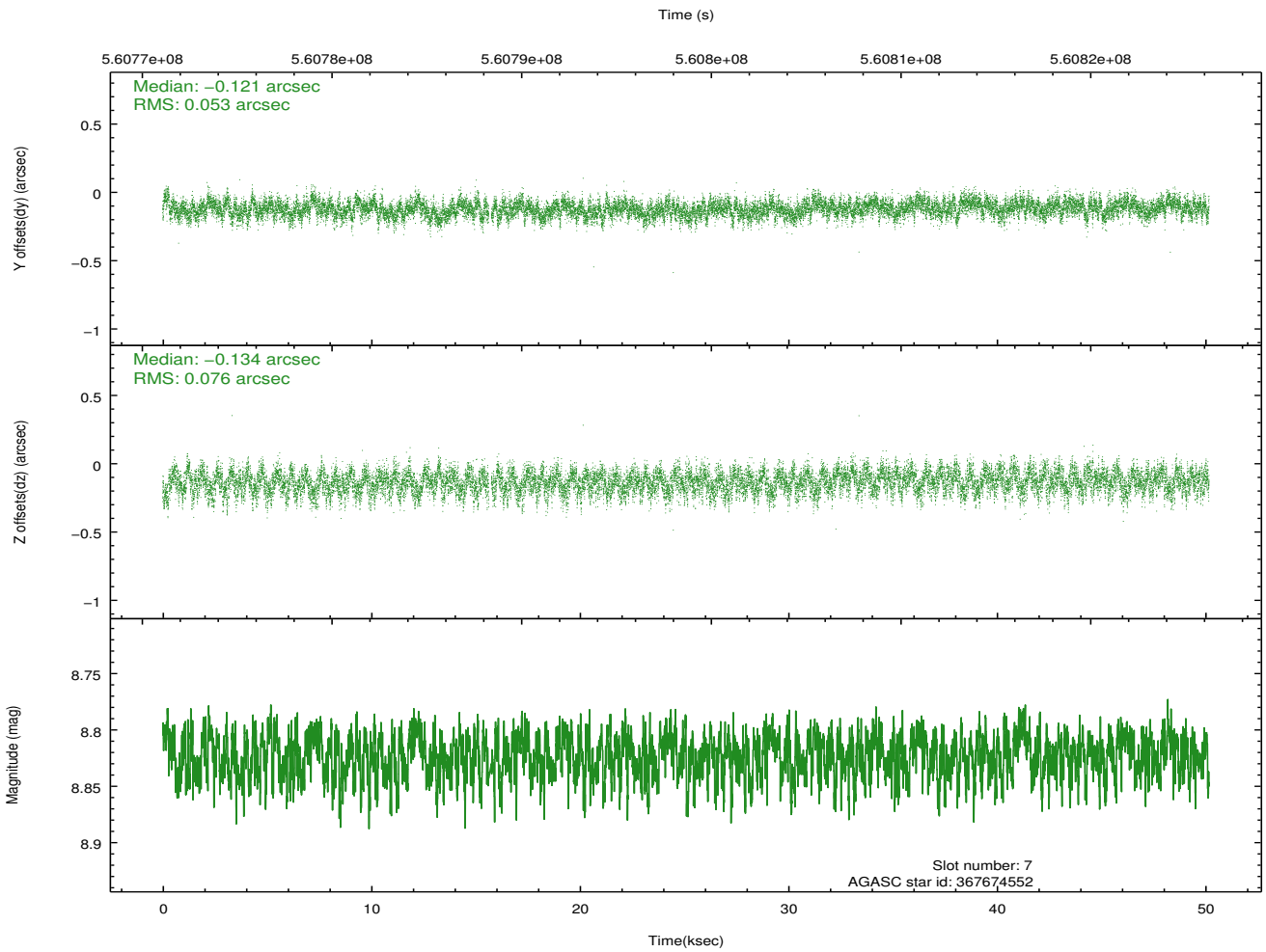
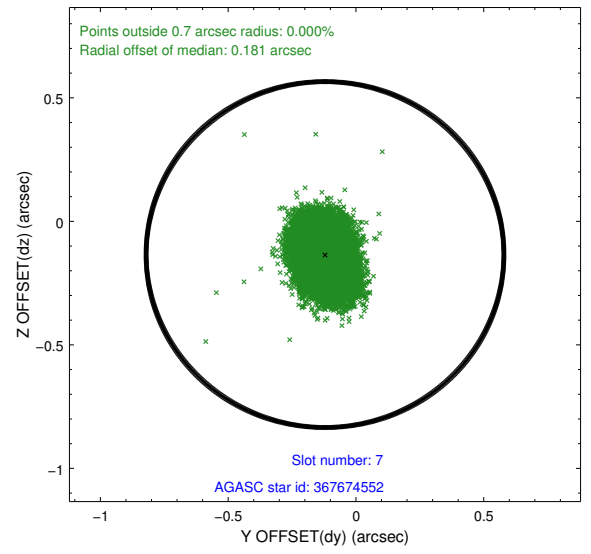
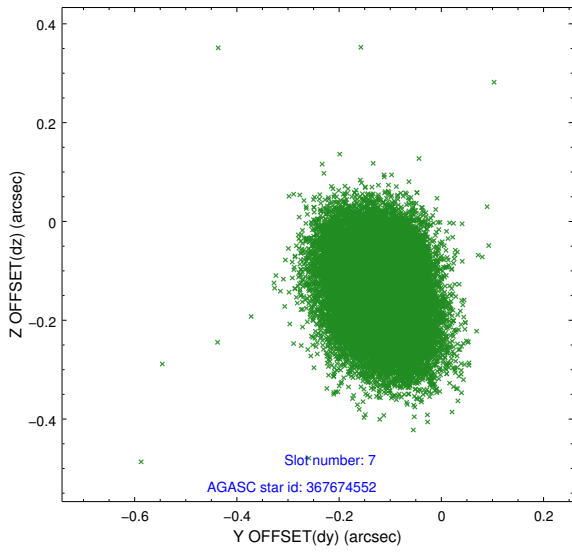
2.4.2 Slot 4



2.4.3 Slot 6

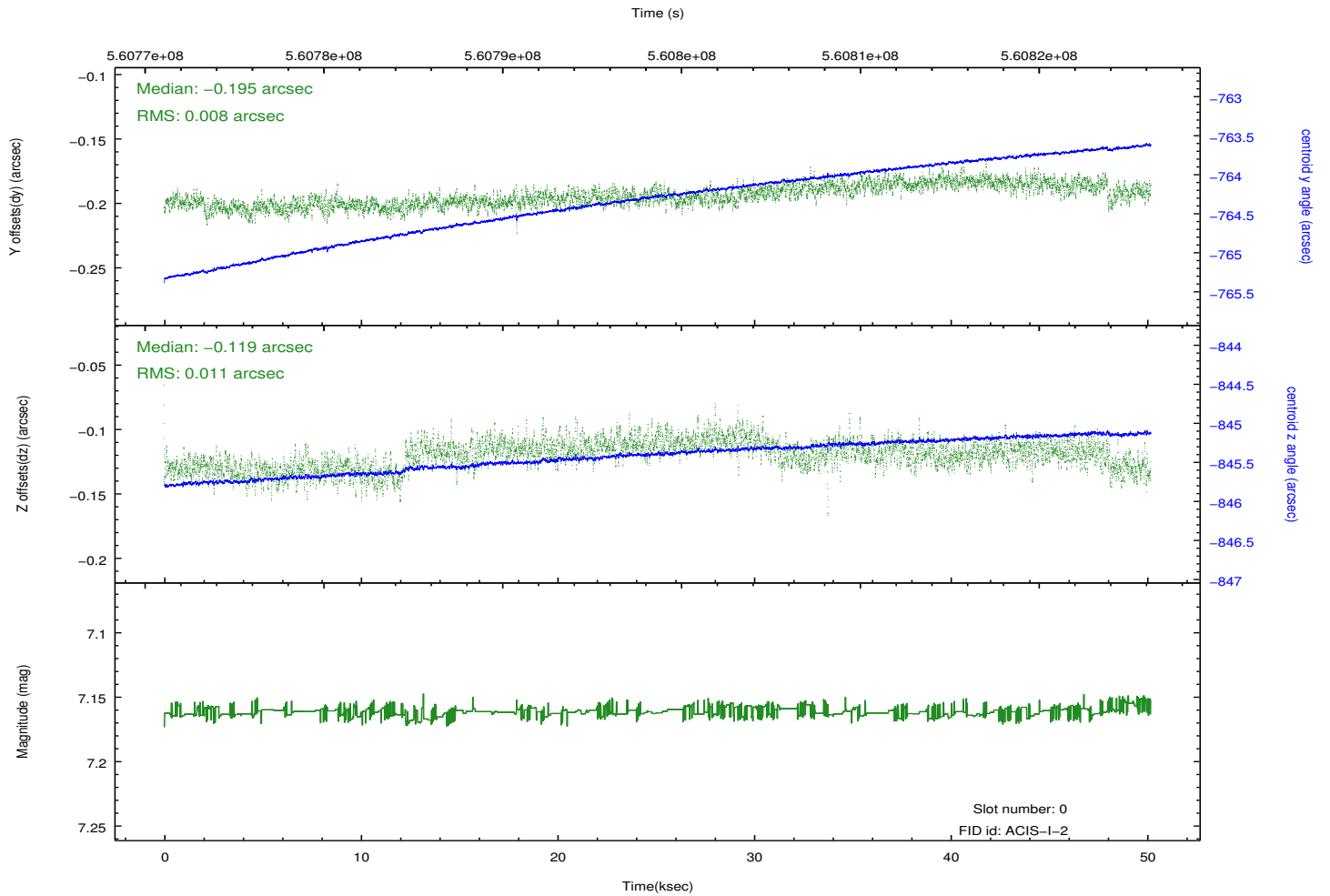
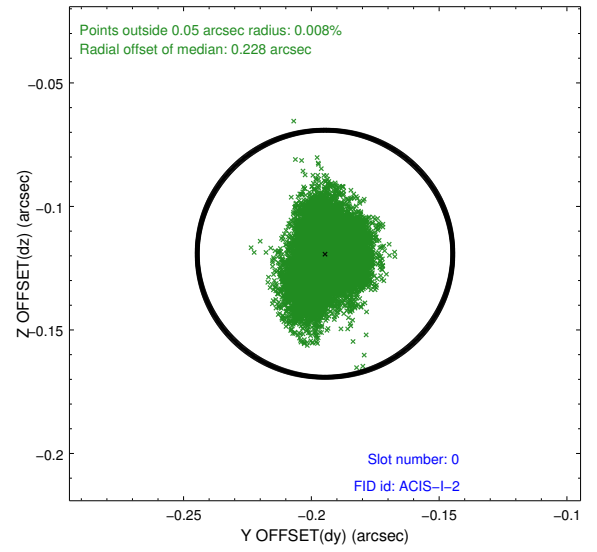
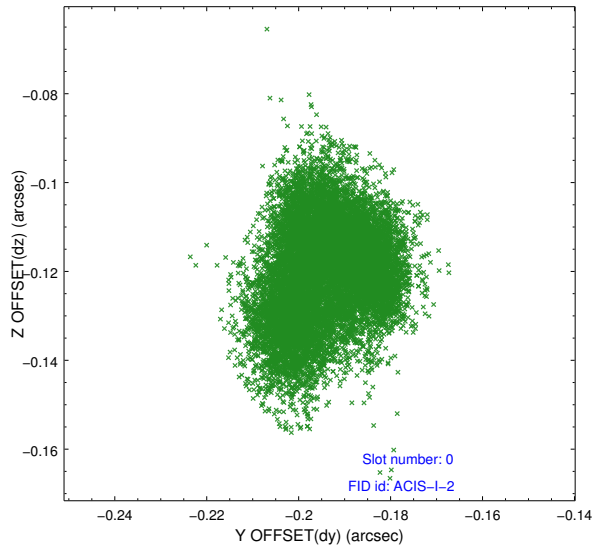


2.4.4 Slot 7

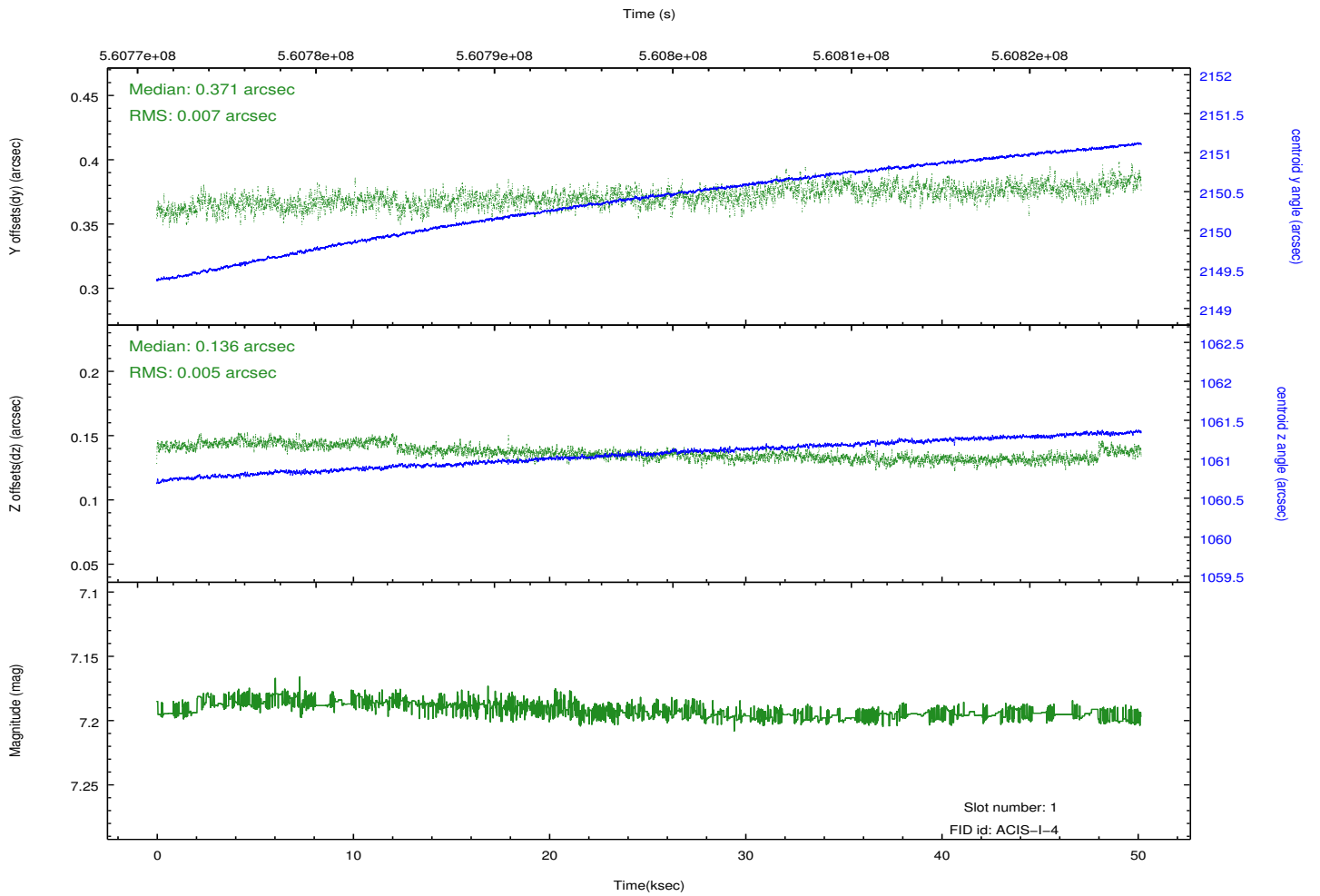
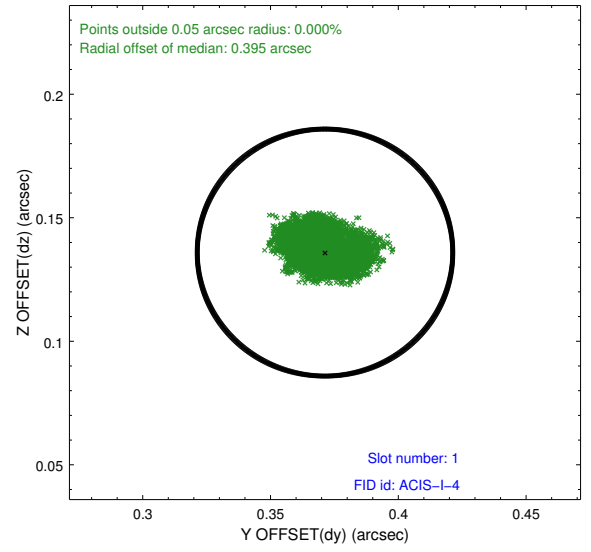
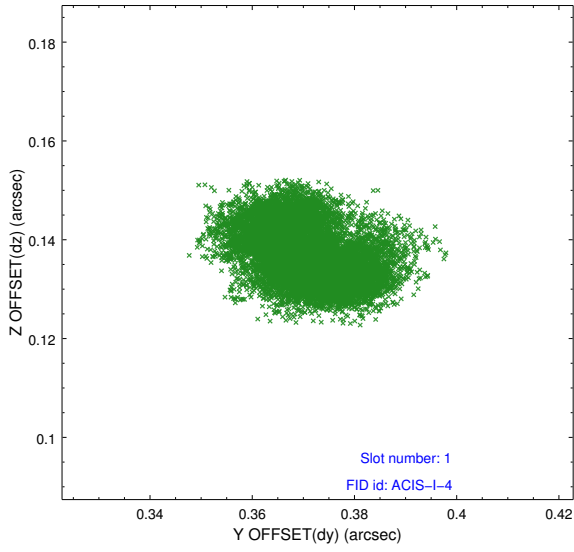


2.5 FID Slots

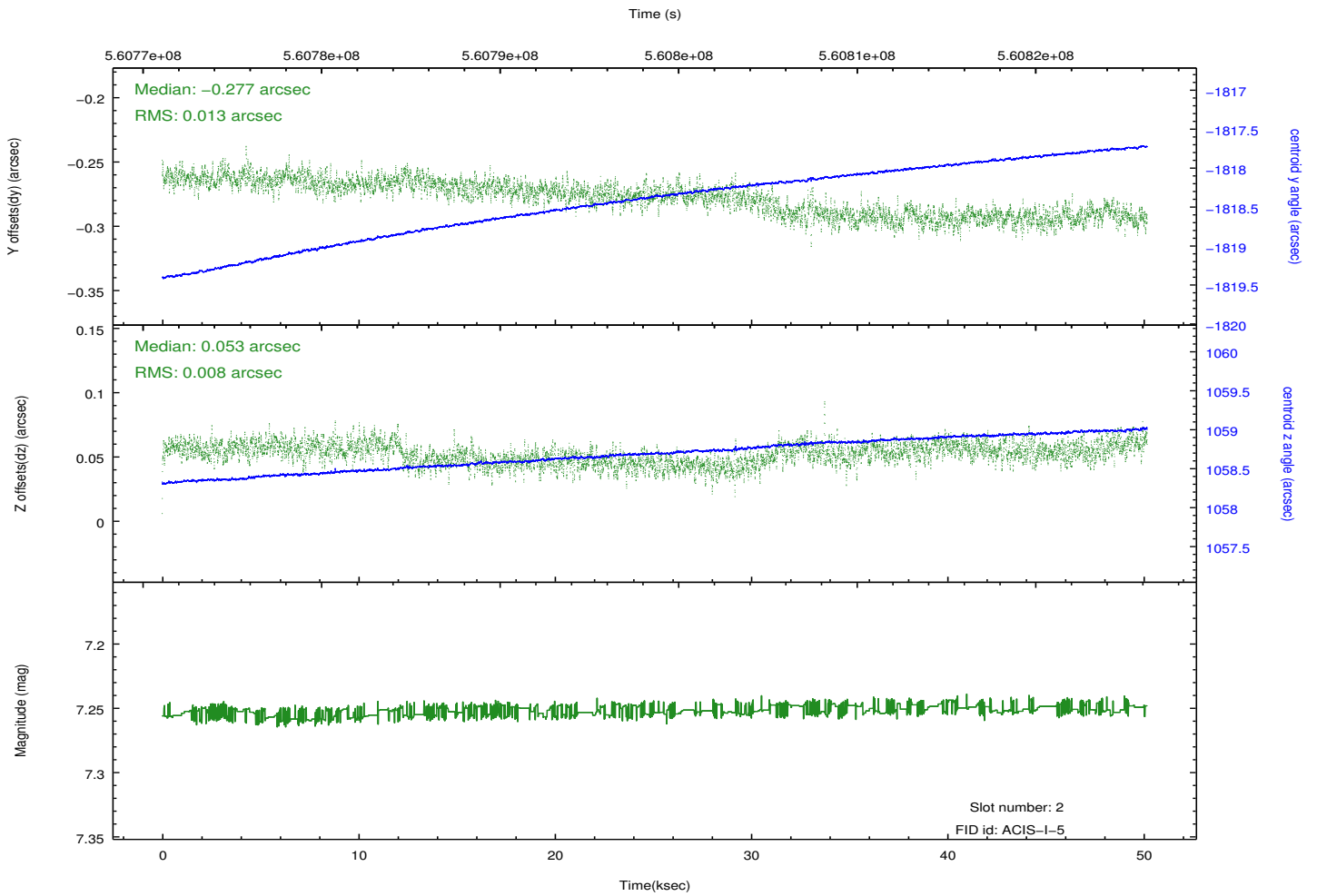
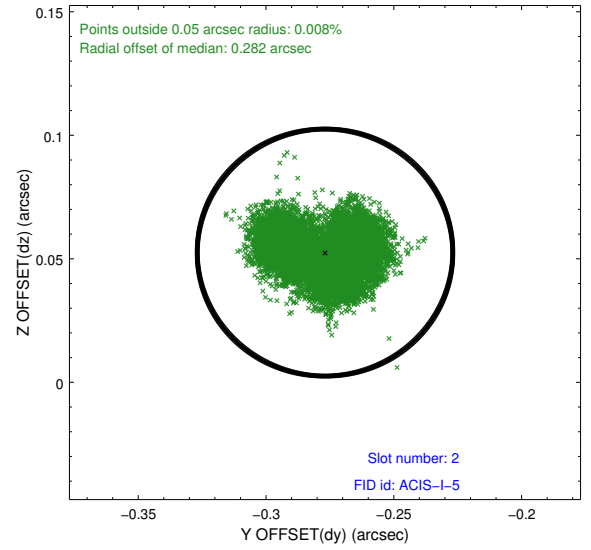
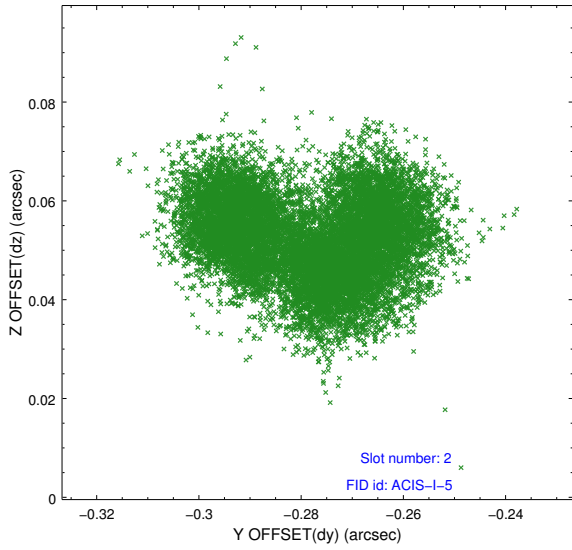
2.5.1 Slot 0



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)	2015.10.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	49.789100383043

A.2 Comments

The guide star in slot 5 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this guide star from the solution.