

V&V Reference Report

L2 ASCDS Version : 10.3.3

Observation 17643 - L2 Version 1
Chandra X-Ray Center

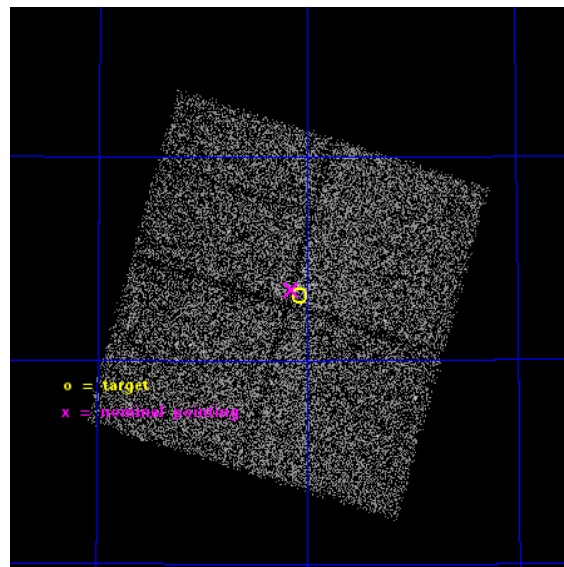
L2 Processing Date : Apr 7 2015

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1 Front

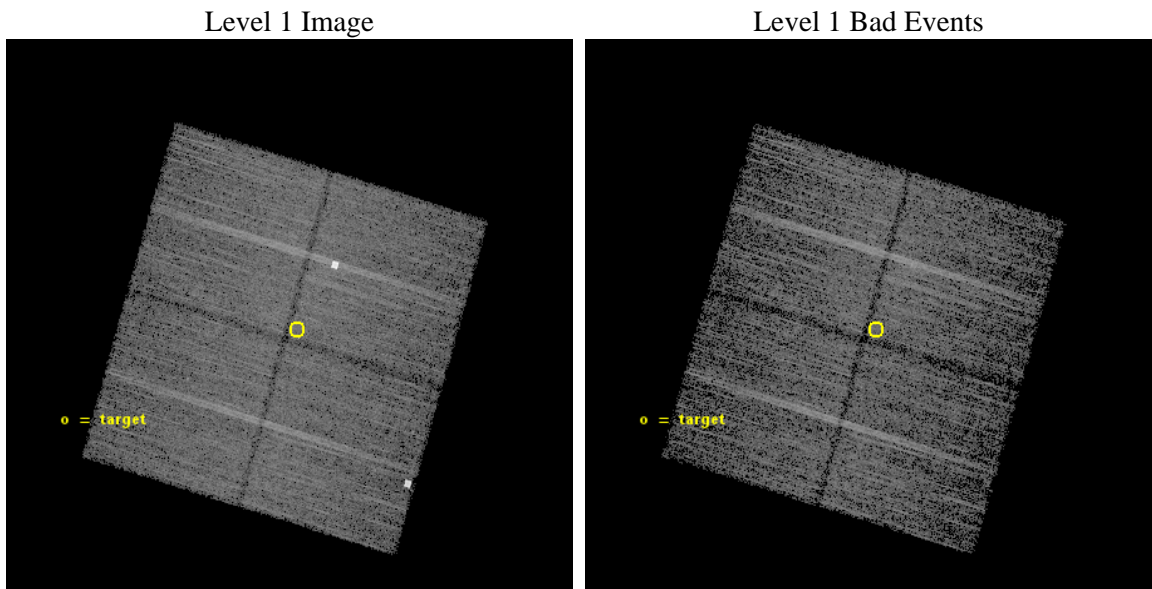
seq_num	200966	Sequence number
obs_id	17643	Observation id
title	Portrait of a Giant HII Bubble: Star Formation in the Northern Cloudlet of the Cepheus Loop (GTO part)	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	BRC2	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	1.019583	Observer's specified target RA [deg]
dec_targ	68.553611	Observer's specified target Dec [deg]
ra_nom	1.038128031335	Nominal RA [deg]
dec_nom	68.558177560531	Nominal Dec [deg]
roll_nom	16.529166581428	Nominal Roll [deg]
revision	1	Processing version of data
ontime	21771.21819675	Sum of GTIs [s]
liveltime	21486.761203271	Livetime [s]
ontime0	21777.500167608	Sum of GTIs [s]
ontime1	21774.359167337	Sum of GTIs [s]
ontime2	21777.500167608	Sum of GTIs [s]
ontime3	21771.21819675	Sum of GTIs [s]
l2events	36249	Number of level 2 events



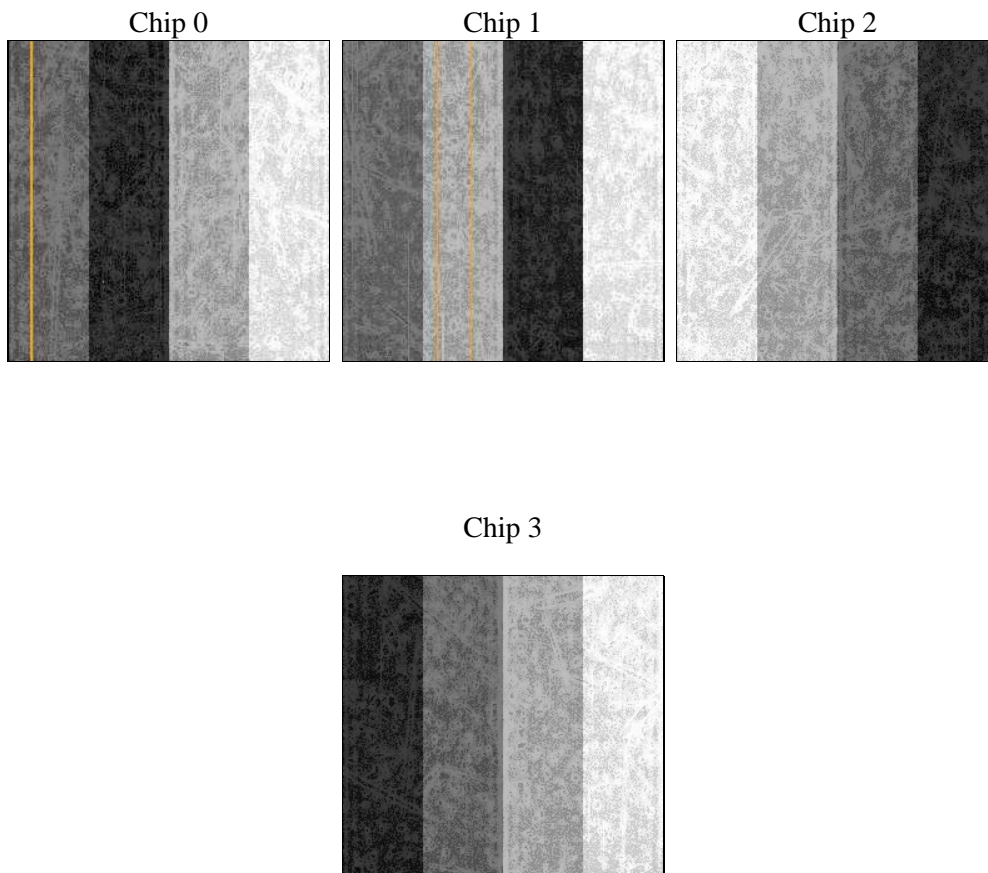
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	21696.000000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	21771.21819675	Sum of GTIs [s]
caldbver	4.6.7	 	ontime0	21777.500167608	Sum of GTIs [s]
date	2015-04-07T21:43:30	Date and time of file creation	ontime1	21774.359167337	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	21777.500167608	Sum of GTIs [s]
			ontime3	21771.21819675	Sum of GTIs [s]
			l1events	384950	Number of level 1 events

2.1.4 Events

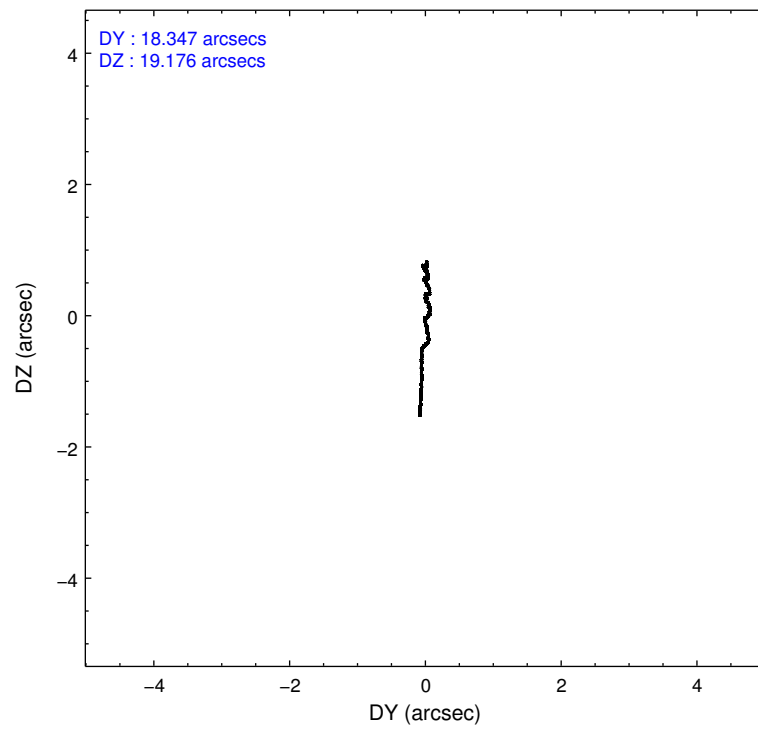
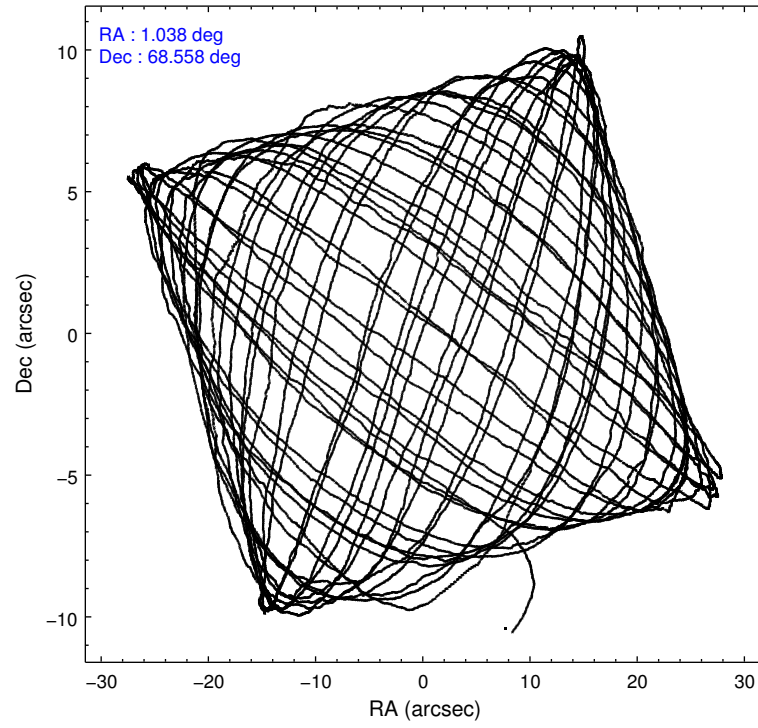
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	87952	94162	97625	105211
rejected events	76697	76117	87214	81080
rejected %	87%	80%	89%	77%

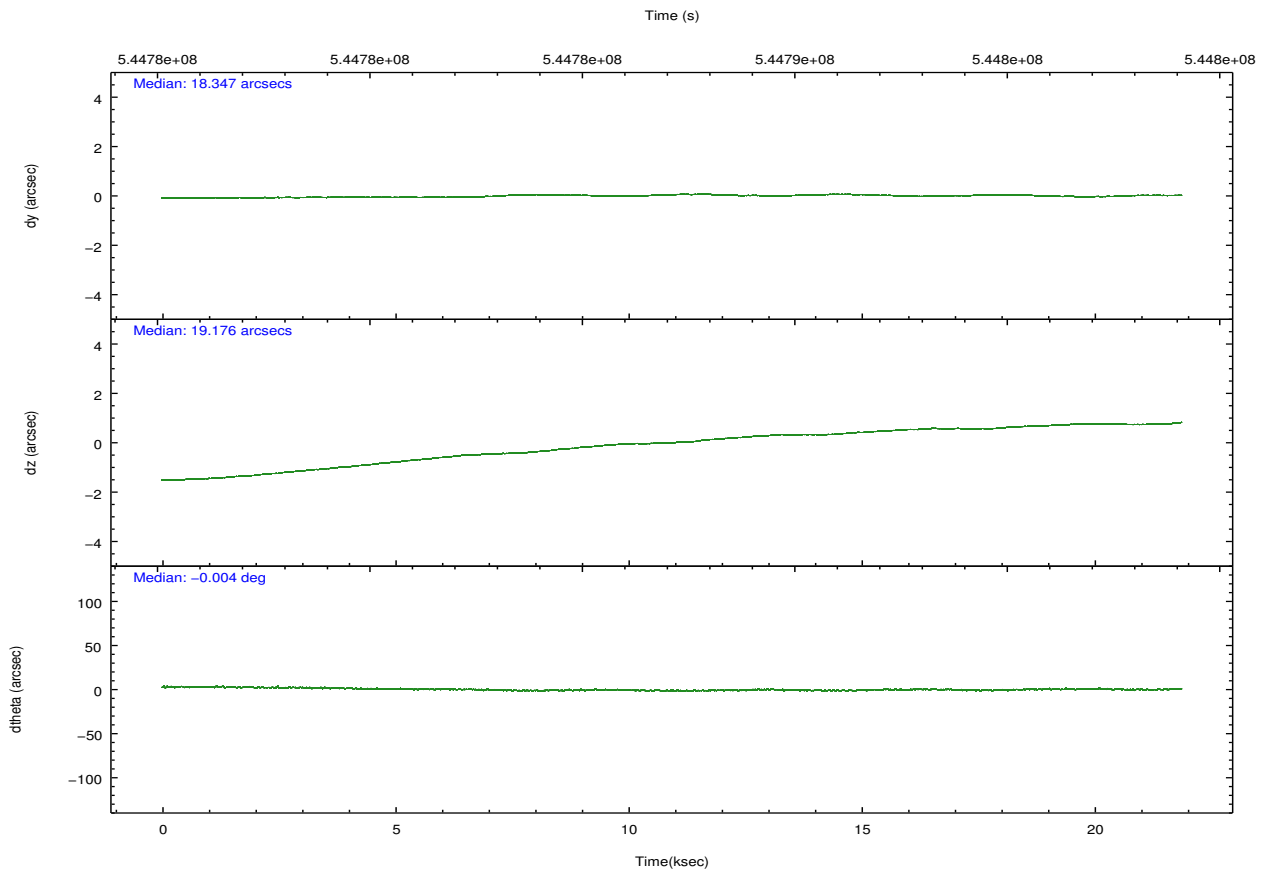
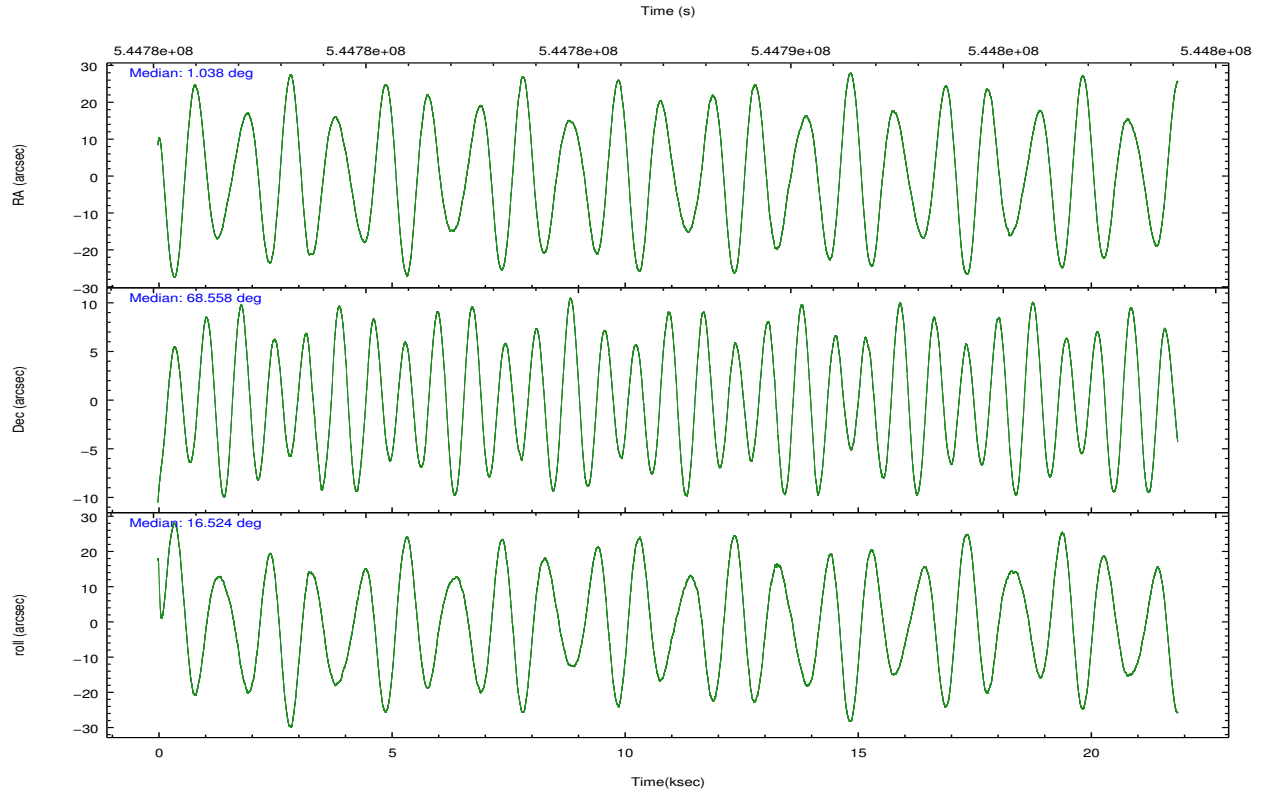
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	4056	10500	3772	17220
	4%	11%	3%	16%
grade 1 events	45	77	52	149
	0%	0%	0%	0%
grade 2 events	2789	2714	2634	2547
	3%	2%	2%	2%
grade 3 events	1154	1134	1022	1137
	1%	1%	1%	1%
grade 4 events	1096	1195	1070	1090
	1%	1%	1%	1%
grade 5 events	3827	4090	3468	4443
	4%	4%	3%	4%
grade 6 events	2165	2507	1916	2145
	2%	2%	1%	2%
grade 7 events	72820	71945	83691	76480
	82%	76%	85%	72%

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	0.986461	1.038128031334963	Subarray requested	NONE	NONE
[deg] Pointing Dec	68.538077	68.55817756053139	Alternating exposures requested	N	N
[deg] Pointing Roll	16.368561	16.52916658142814	[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)	544776347.184000	544775208.26693			
Observation start date	2015-04-07T06:44:40	2015-04-07T06:26:48			
[s] Observation end time (MET)	544798043.184000	544798940.60576			
Observation end date	2015-04-07T12:46:16	2015-04-07T13:02:20			
Read mode	TIMED	TIMED			

2.3 Aspect





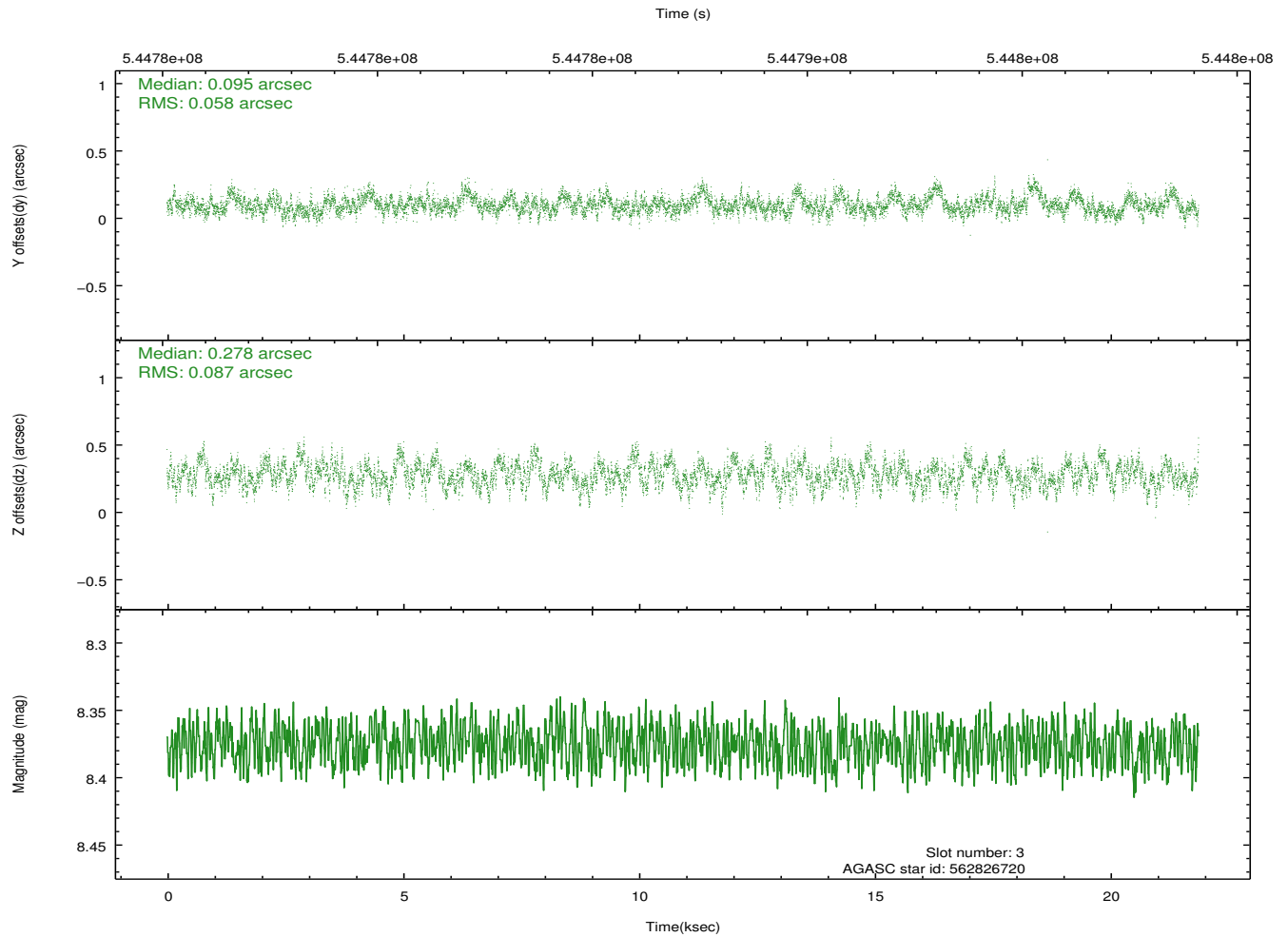
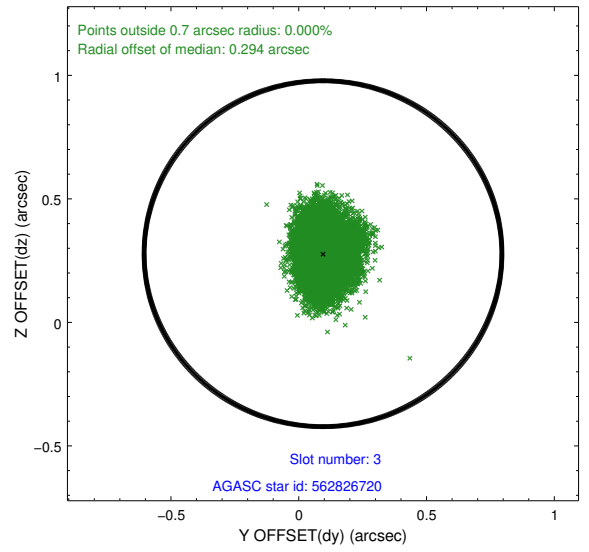
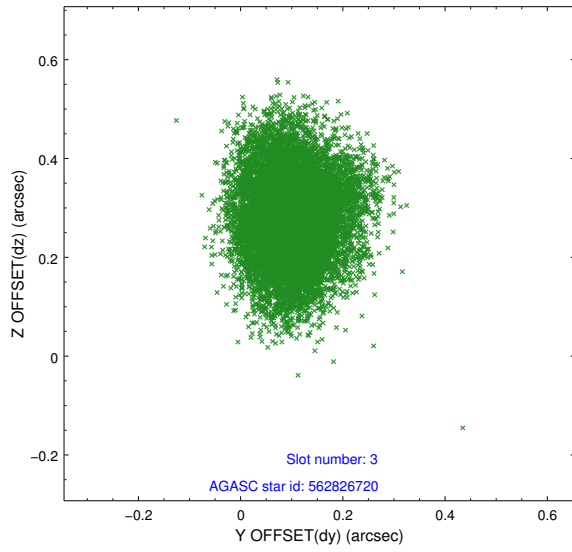
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.17	5336	0.051	0.014	0.017	0.028	0.000000	0.000000	921.11	-842.71
1	FID		ACIS-I-5	7.17	5335	-0.309	0.035	0.013	0.027	0.000000	0.000000	-1827.34	1054.62
2	FID		ACIS-I-6	7.17	5336	0.166	0.017	0.018	0.026	0.000000	0.000000	386.51	1699.36
3	GUIDE	used	562826720	8.38	10670	0.095	0.278	0.112	0.180	0.103663	67.851909	-1842.77	-2024.04
4	GUIDE	used	562827840	7.53	10610	-0.244	-0.148	0.087	0.140	1.333018	68.884428	783.28	1070.73
5	GUIDE	used	562828208	9.20	10669	0.197	0.058	0.138	0.218	1.203960	68.188695	-74.52	-1288.02
6	GUIDE	used	587074944	8.75	10669	0.395	0.147	0.114	0.180	359.852739	68.384106	-1594.13	-94.87
7	GUIDE	used	562829424	7.53	10669	-0.436	-0.336	0.079	0.130	1.869450	69.079499	1640.19	1558.03

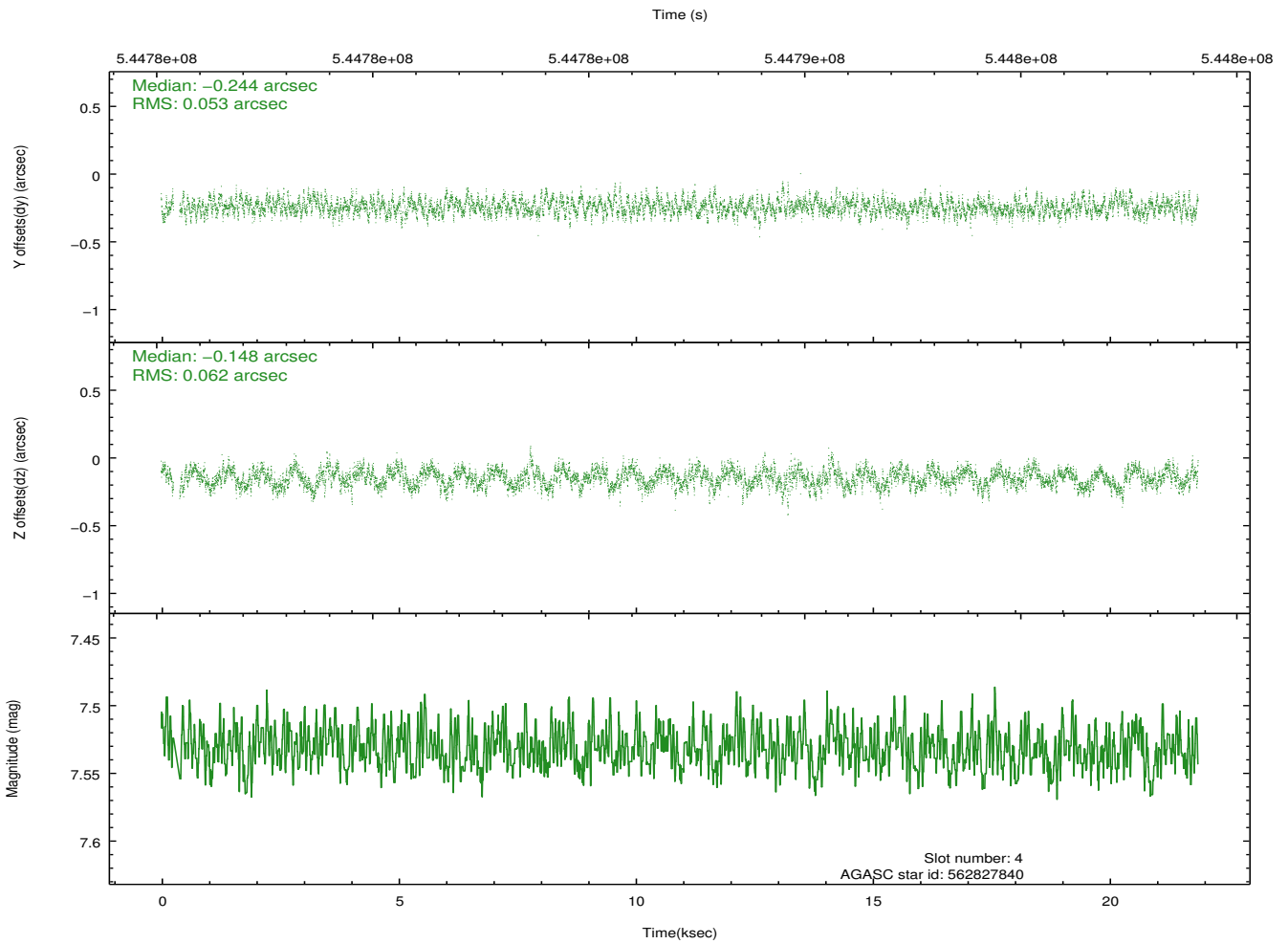
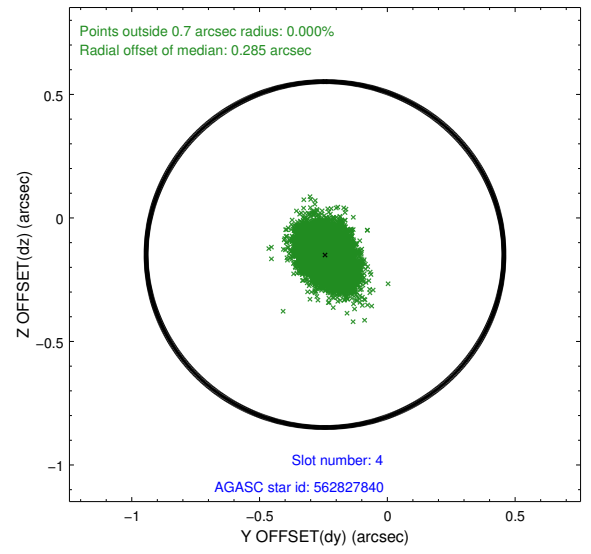
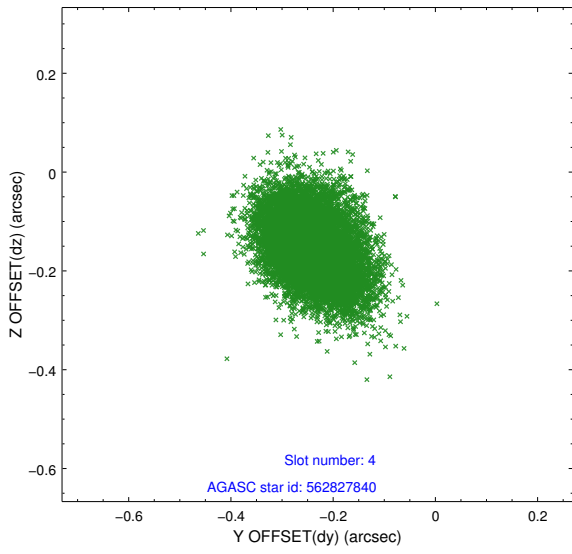
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2.4 Star Slots

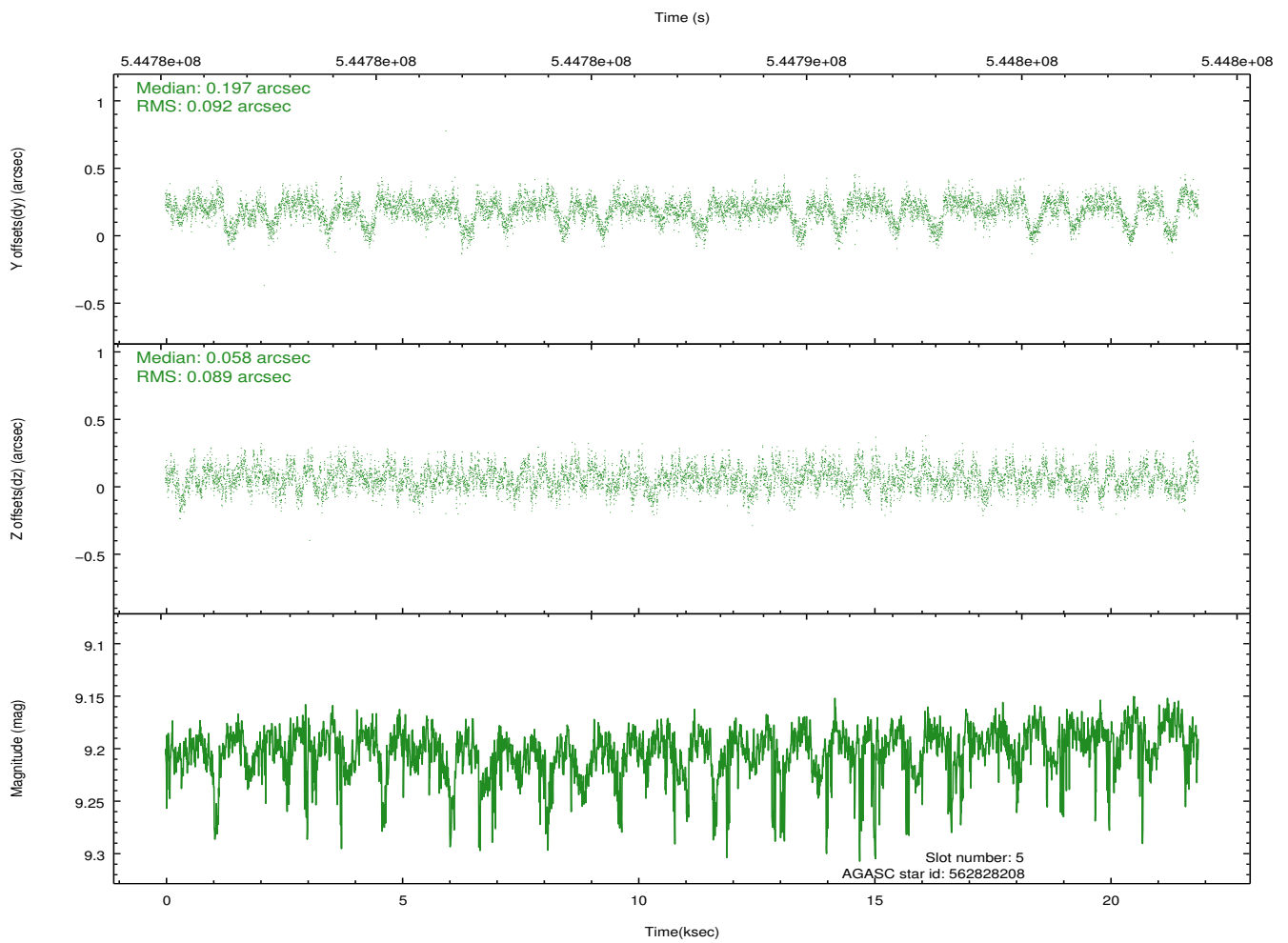
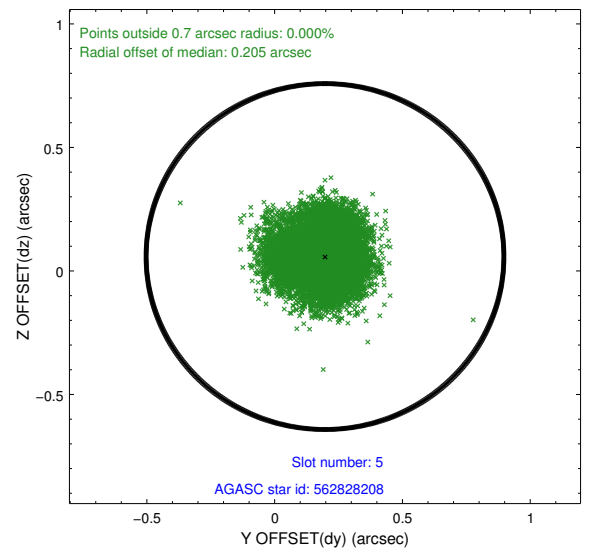
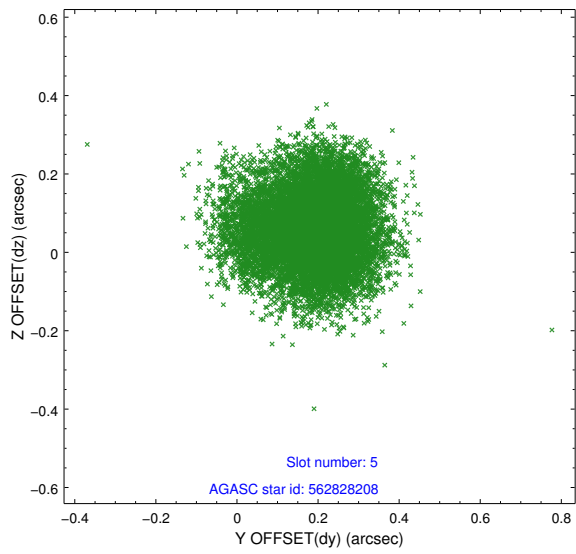
2.4.1 Slot 3



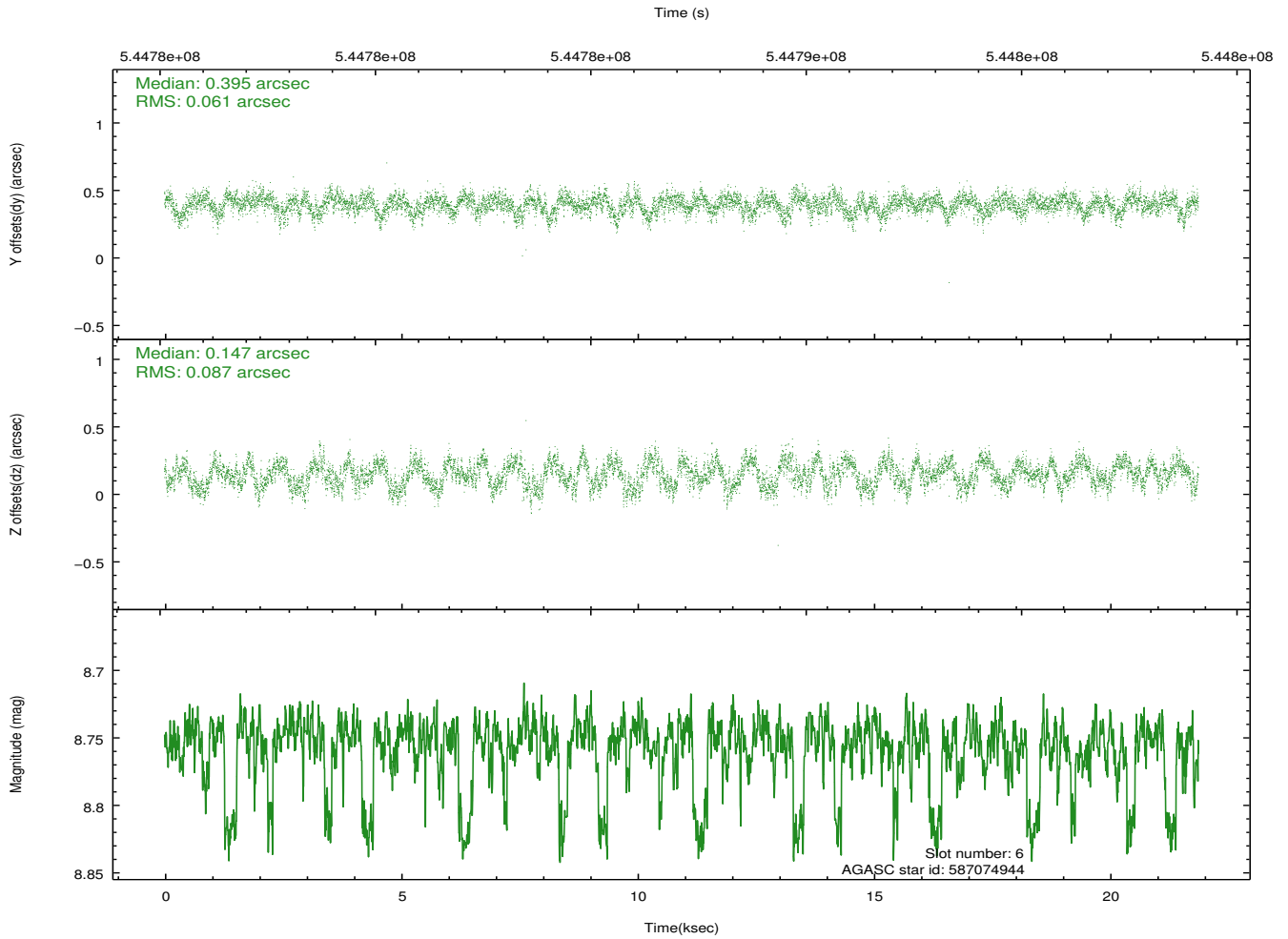
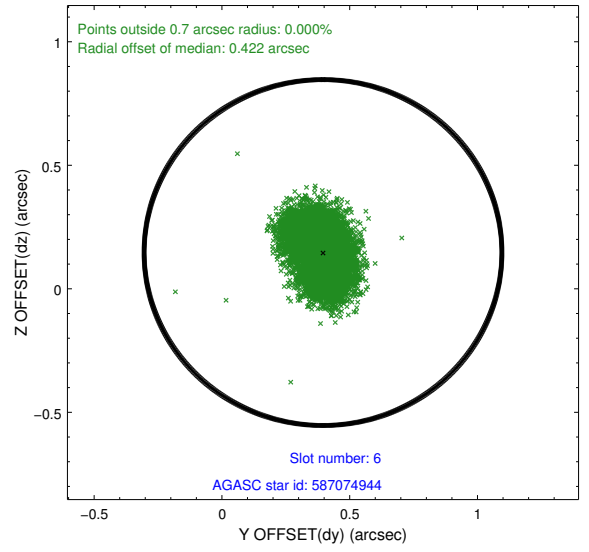
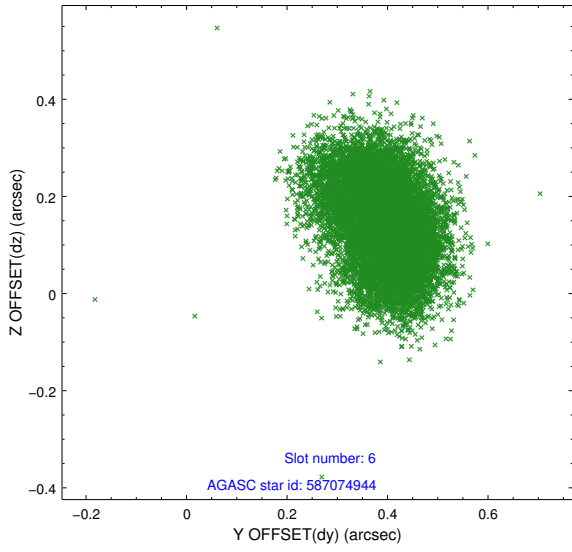
2.4.2 Slot 4



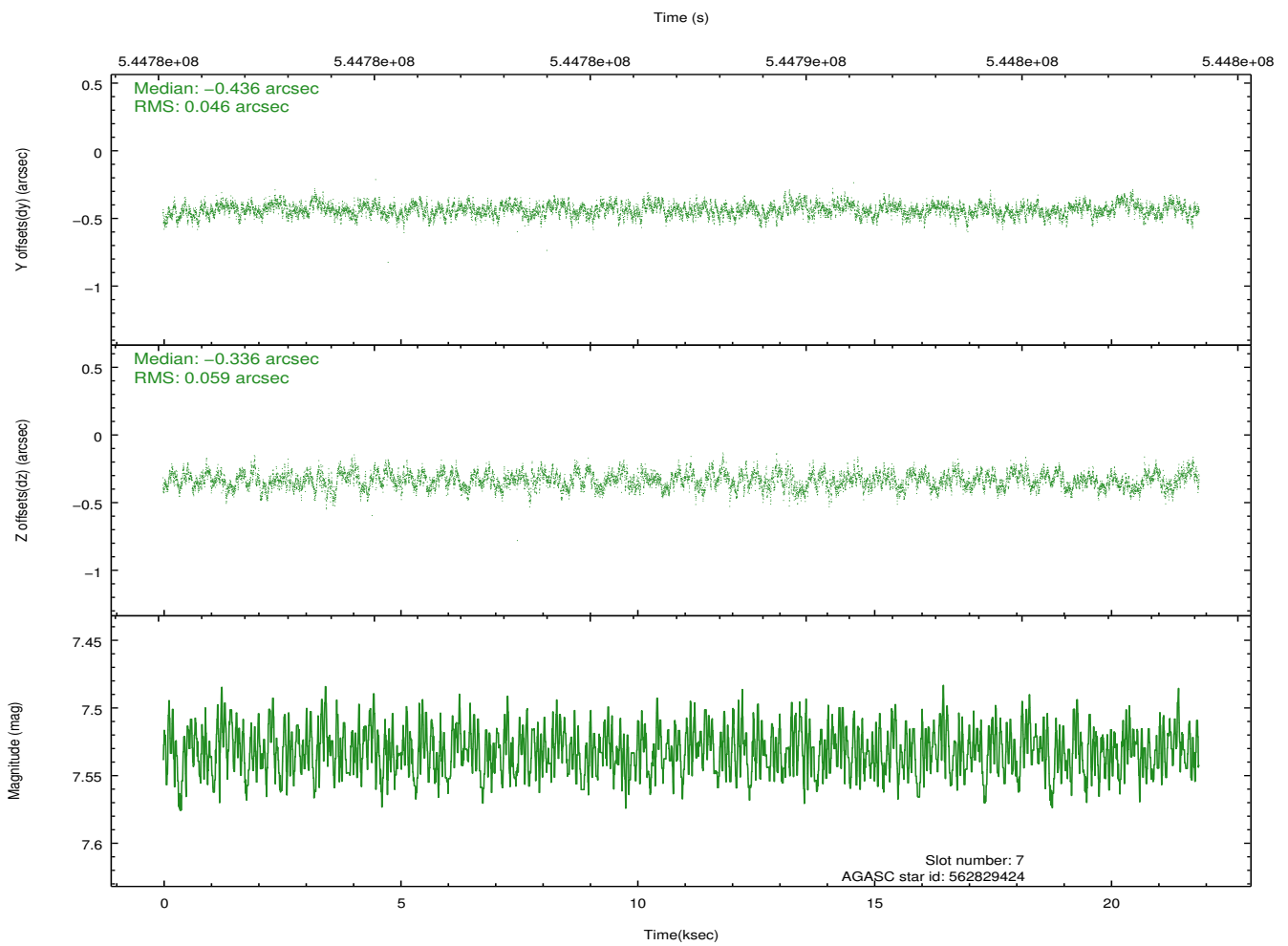
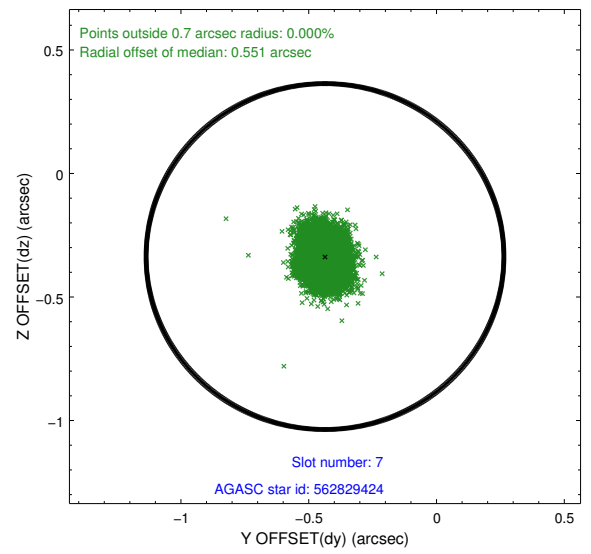
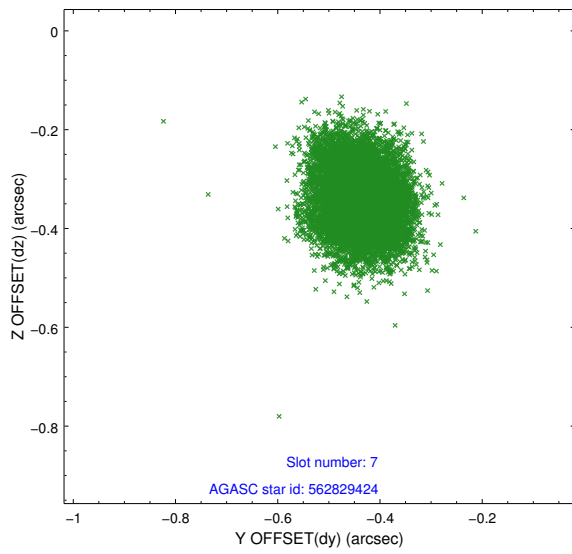
2.4.3 Slot 5



2.4.4 Slot 6

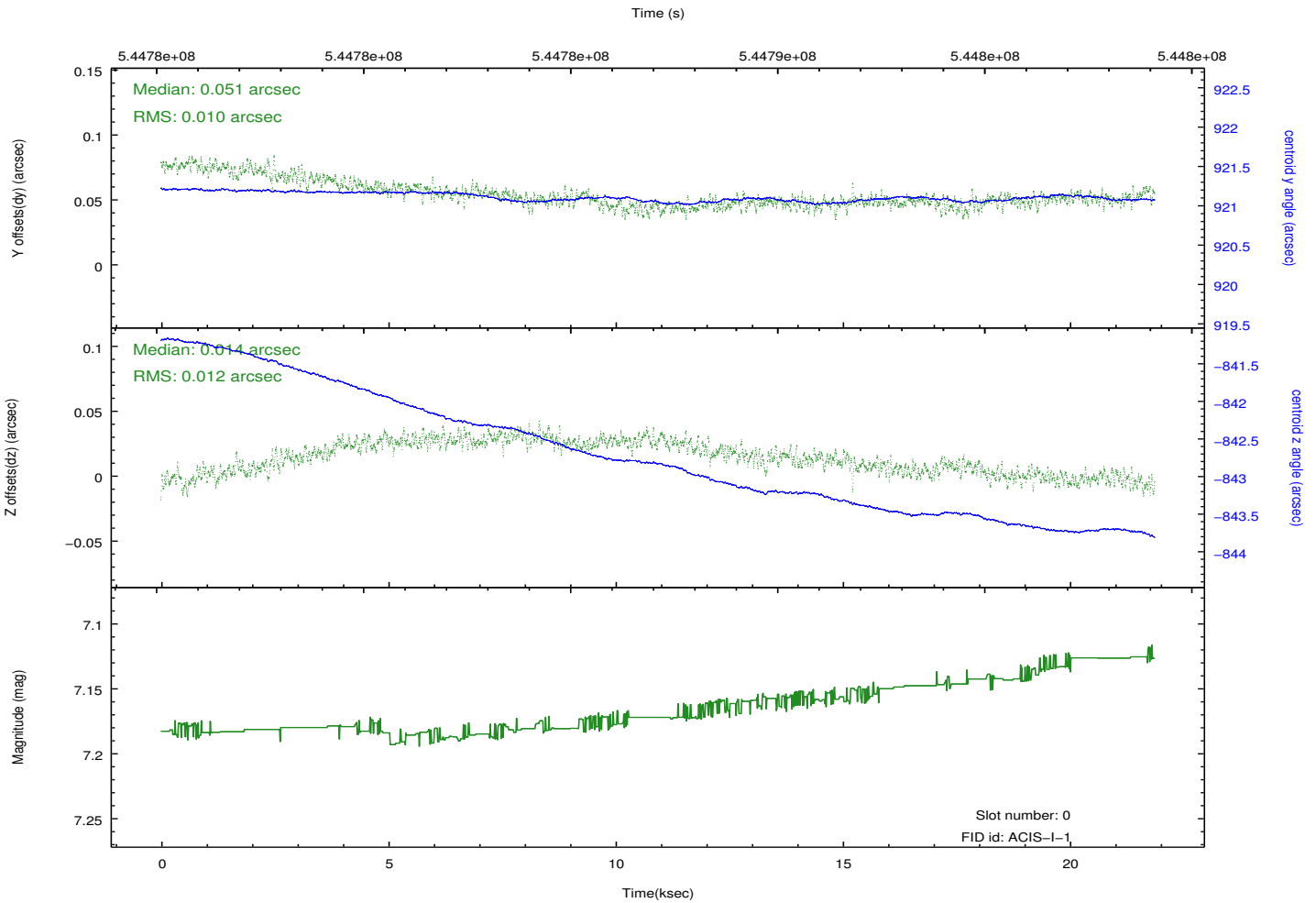
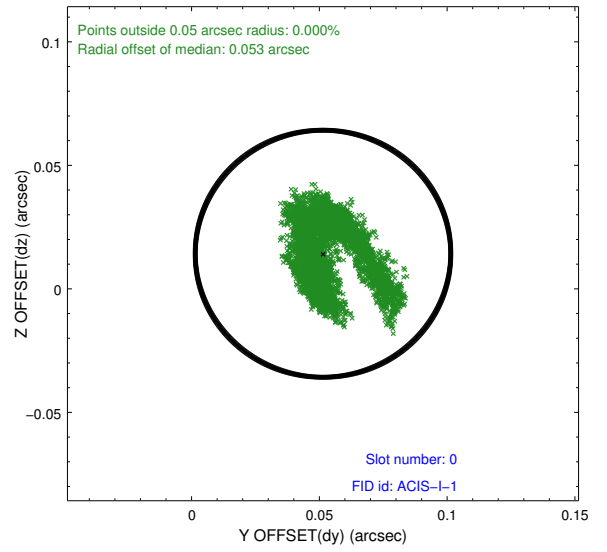
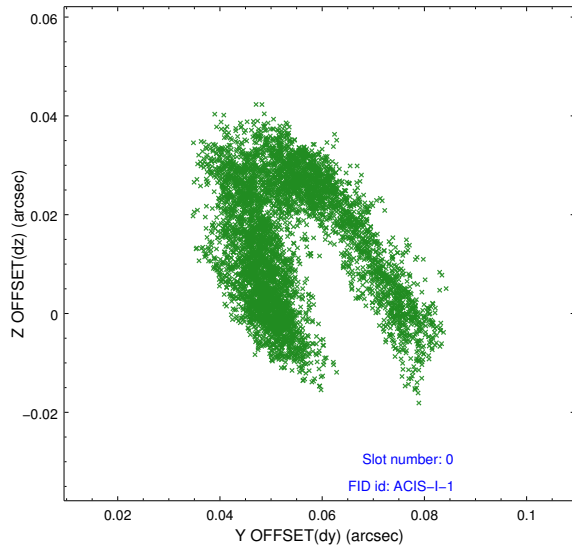


2.4.5 Slot 7

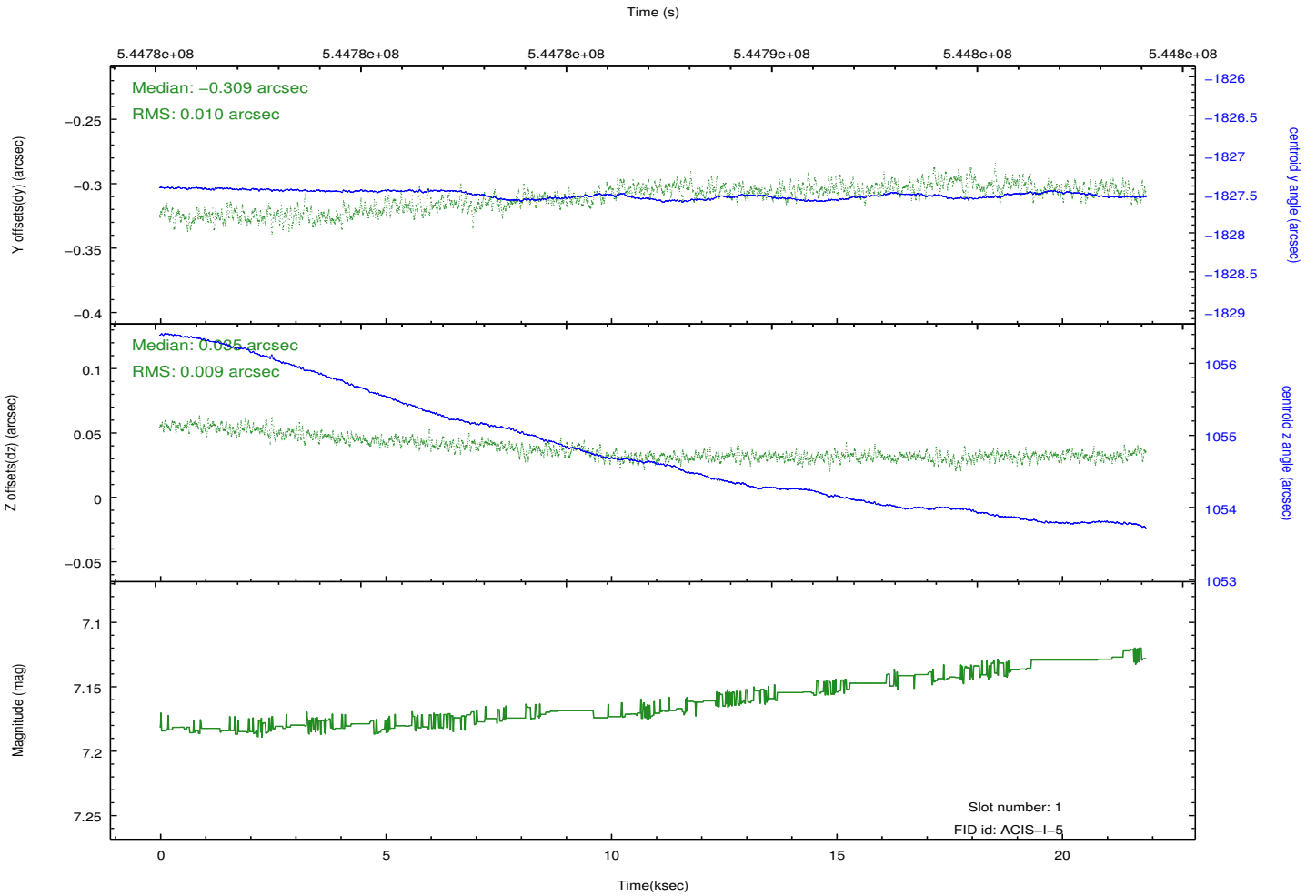
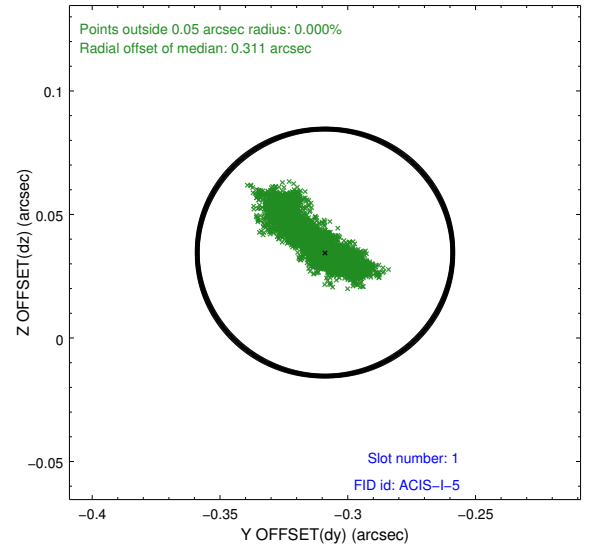
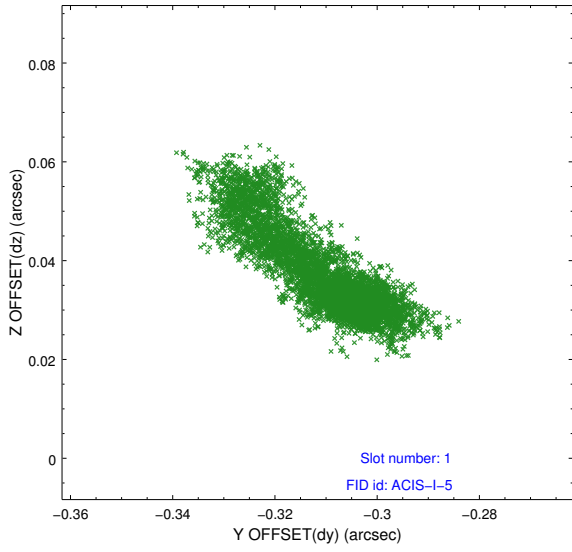


2.5 FID Slots

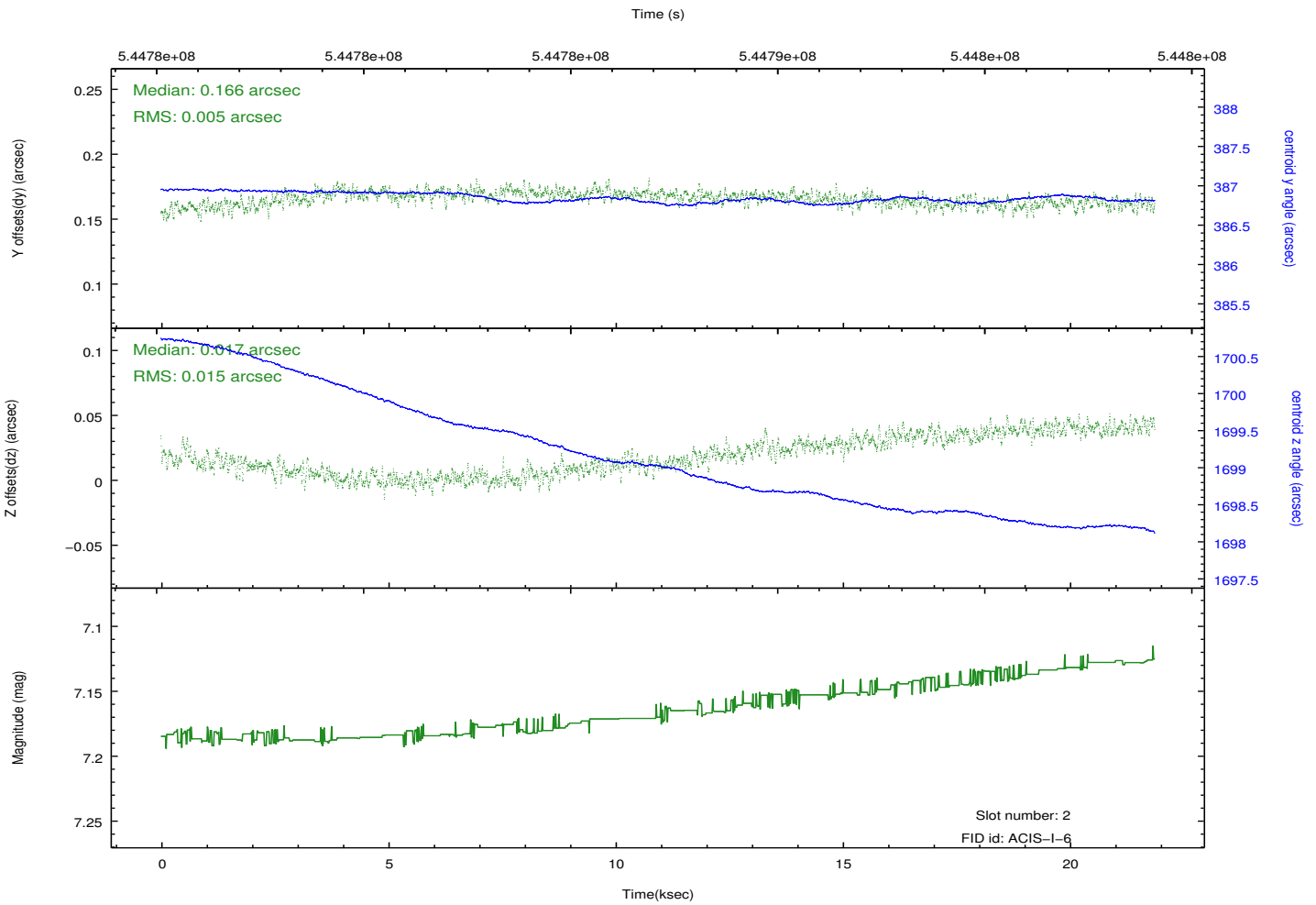
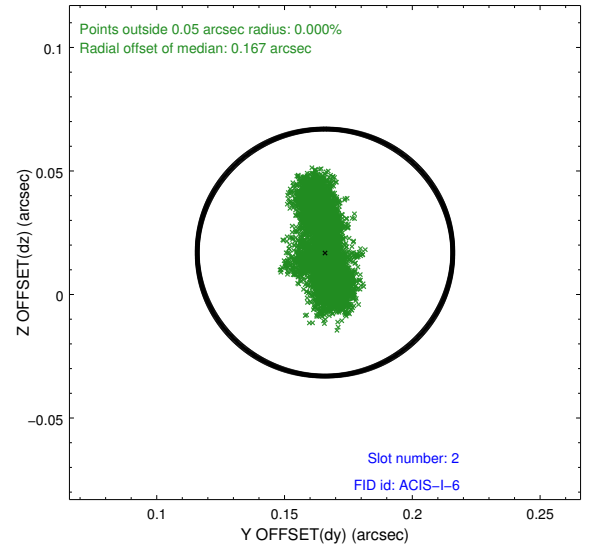
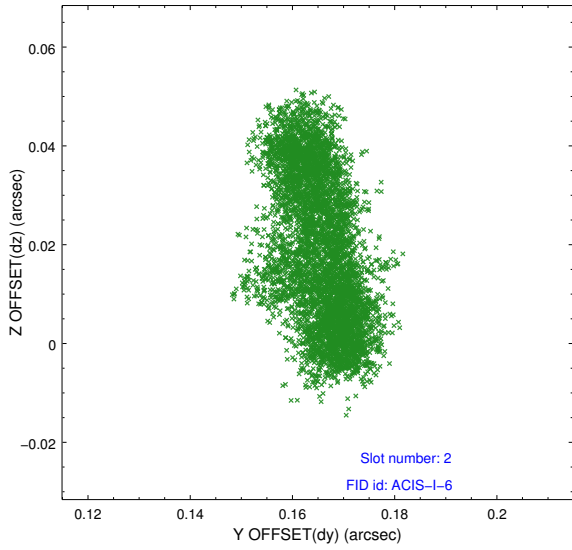
2.5.1 Slot 0



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)	2015.04.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	21.77121819675

A.2 Comments