

V&V Reference Report

L2 ASCDS Version : 10.4.2.1

Observation 17283 - L2 Version 1
Chandra X-Ray Center

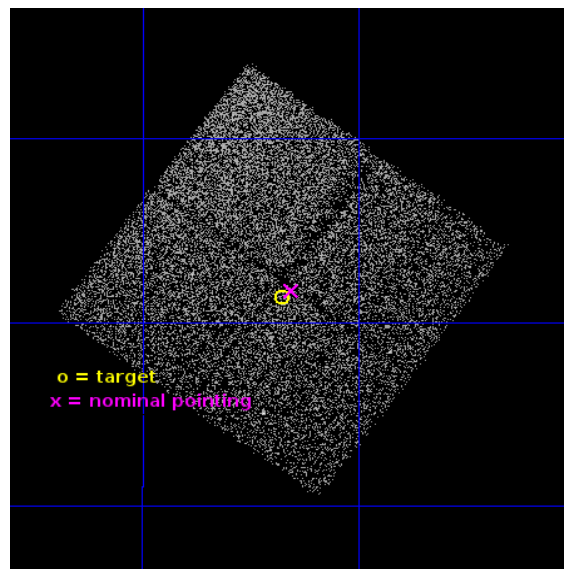
L2 Processing Date : Oct 6 2015

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1 Front

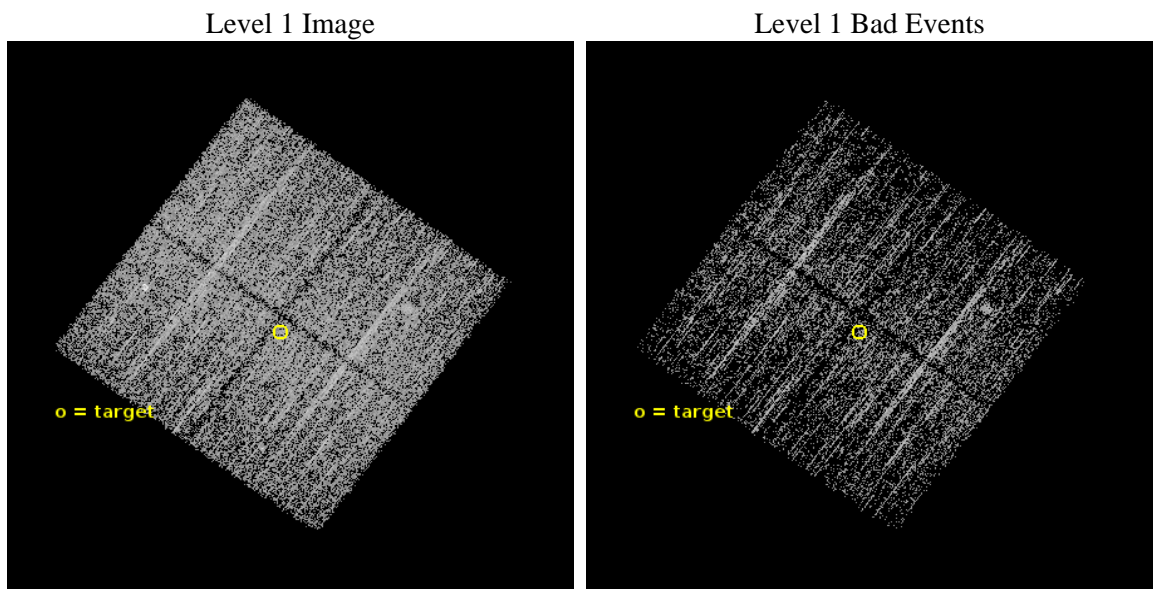
seq_num	801528	Sequence number
obs_id	17283	Observation id
title	Perseus: A New, Low-Redshift Anchor for Cluster Cosmology	Proposal
observer	Prof. Steven Allen	Principal investigator
object	Perseus cluster	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	49.83853	Observer's specified target RA [deg]
dec_targ	41.189814	Observer's specified target Dec [deg]
ra_nom	49.827613579351	Nominal RA [deg]
dec_nom	41.19545175885	Nominal Dec [deg]
roll_nom	126.32148438367	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5087.1000392437	Sum of GTIs [s]
livetime	5020.6333321624	Livetime [s]
ontime0	5087.1000392437	Sum of GTIs [s]
ontime1	5087.1000392437	Sum of GTIs [s]
ontime2	5087.1000392437	Sum of GTIs [s]
ontime3	5087.1000392437	Sum of GTIs [s]
l2events	26781	Number of level 2 events



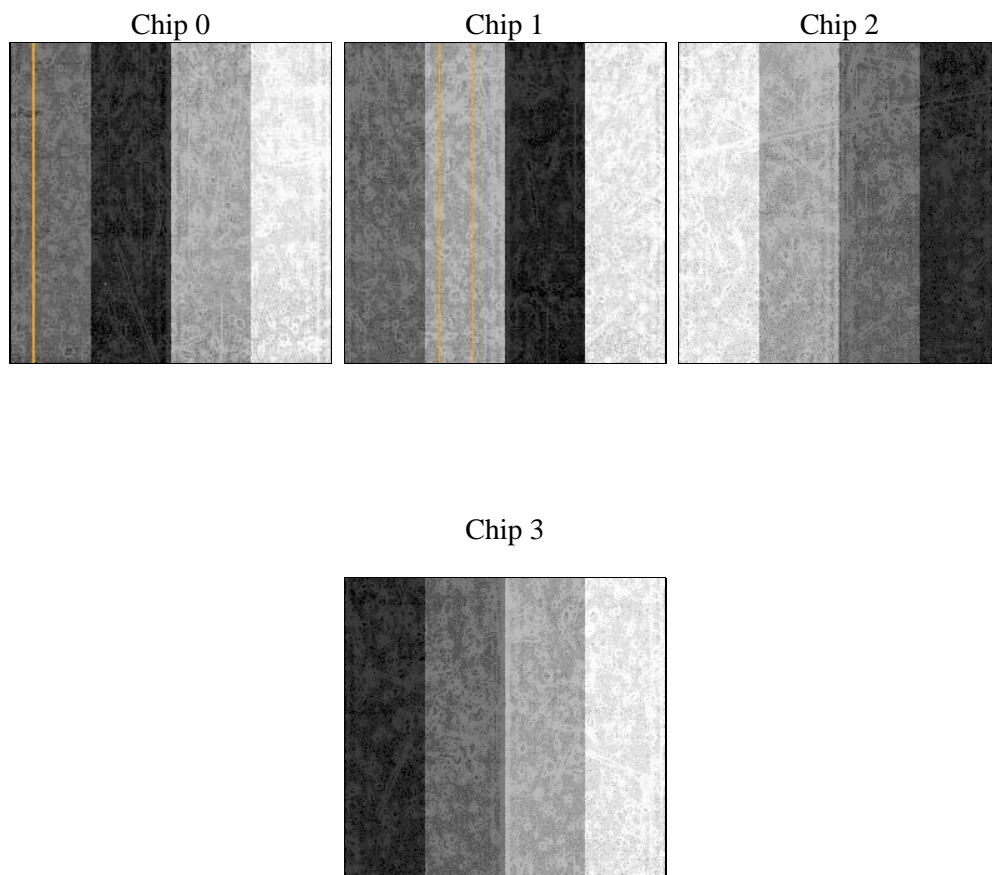
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.2.1	Processing system revision	ontime	5087.1000392437	Sum of GTIs [s]
caldsver	4.6.10a	 	ontime0	5087.1000392437	Sum of GTIs [s]
date	2015-10-07T03:25:04	Date and time of file creation	ontime1	5087.1000392437	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	5087.1000392437	Sum of GTIs [s]
			ontime3	5087.1000392437	Sum of GTIs [s]
			l1events	118083	Number of level 1 events

2.1.4 Events

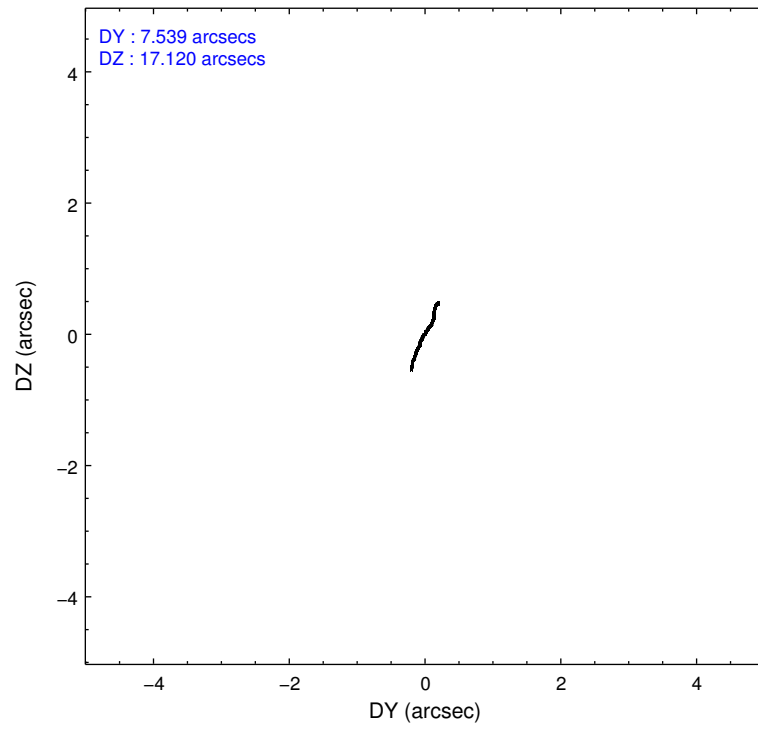
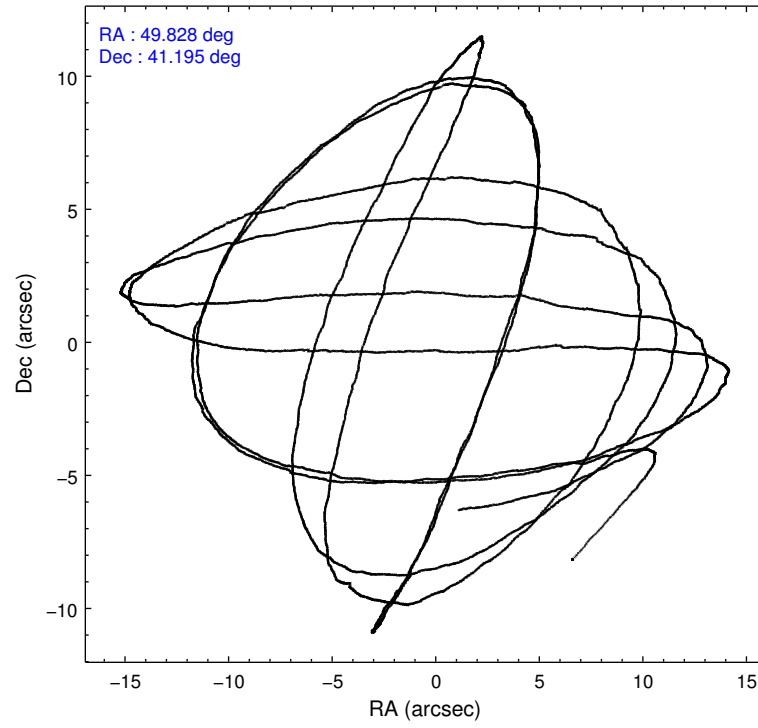
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	31785	30061	28718	27519
rejected events	21331	22211	22009	22175
rejected %	67%	73%	76%	80%

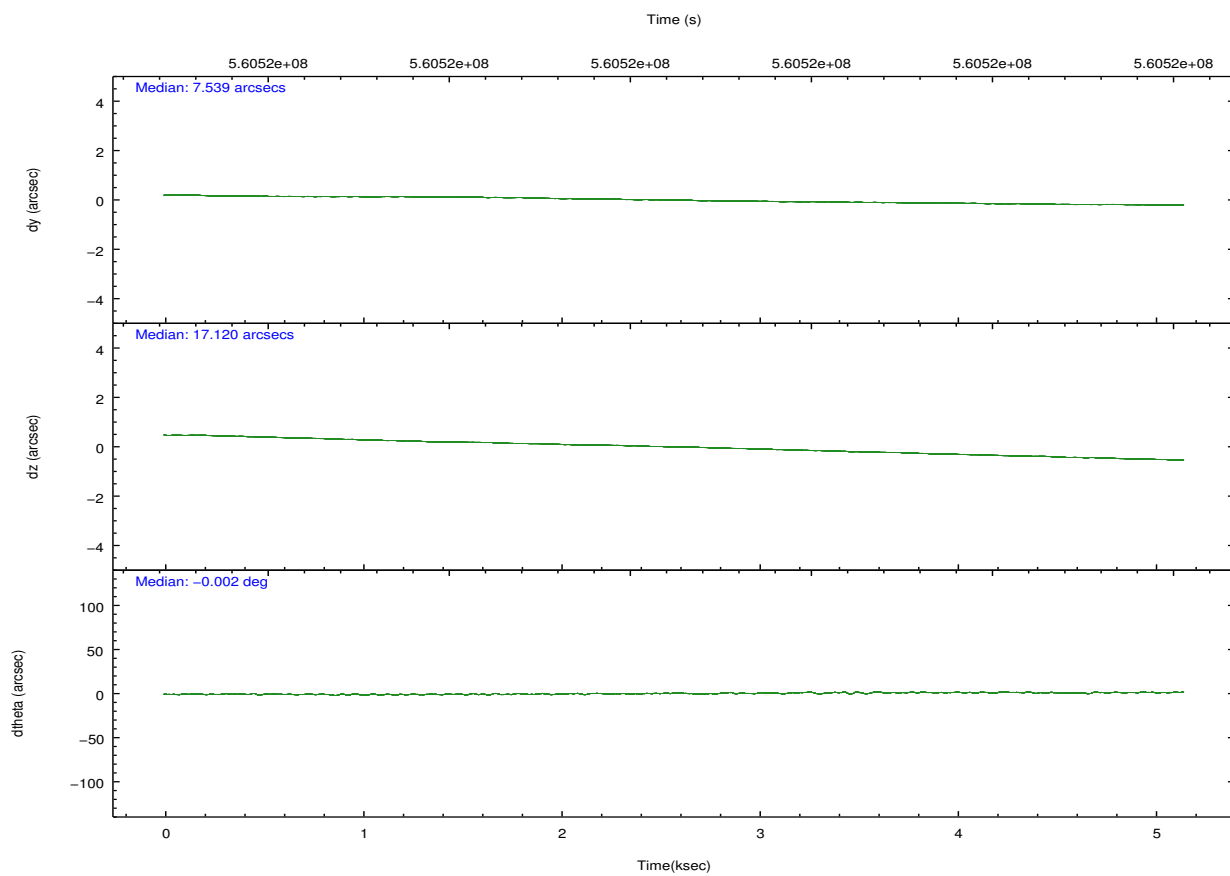
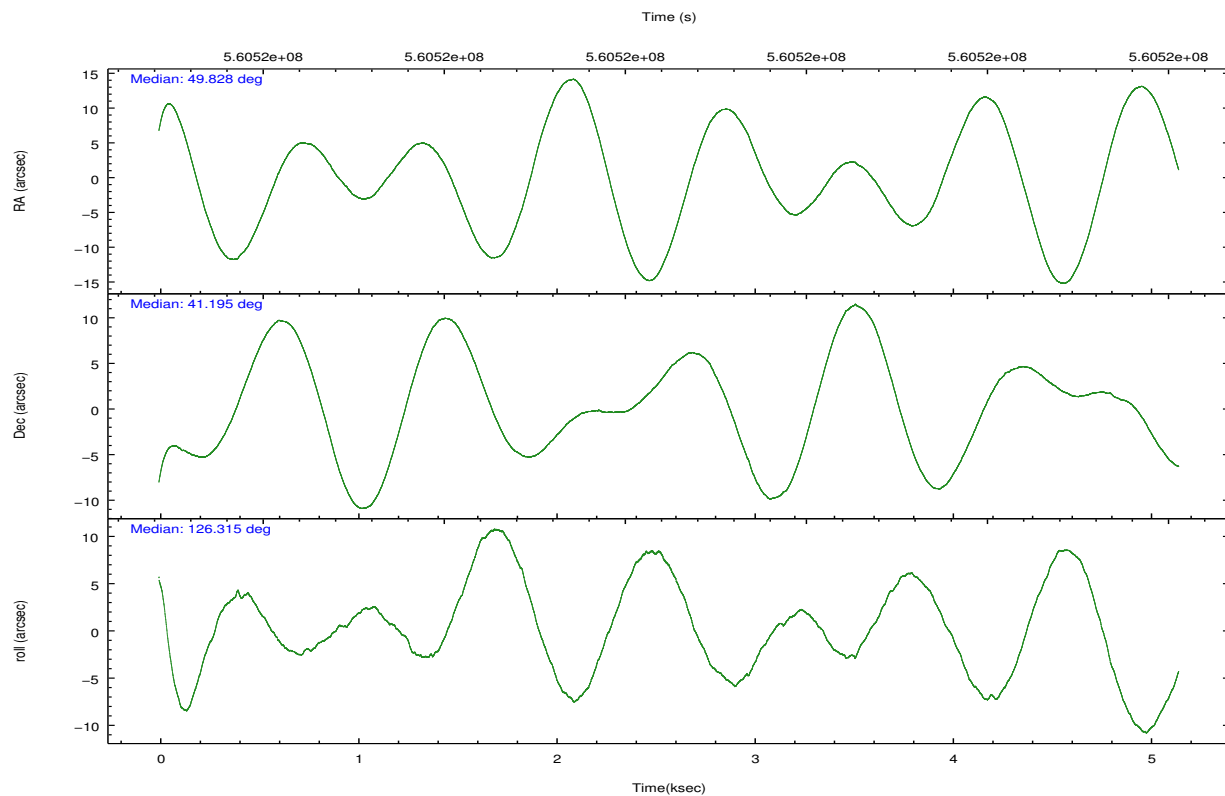
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	6917	4725	3979	3041
	21%	15%	13%	11%
grade 1 events	40	33	21	24
	0%	0%	0%	0%
grade 2 events	1511	1279	1129	868
	4%	4%	3%	3%
grade 3 events	595	452	450	391
	1%	1%	1%	1%
grade 4 events	555	480	430	356
	1%	1%	1%	1%
grade 5 events	1284	1277	1095	1360
	4%	4%	3%	4%
grade 6 events	883	918	725	688
	2%	3%	2%	2%
grade 7 events	20000	20897	20889	20791
	62%	69%	72%	75%

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	49.861203	49.82761357935117	Subarray requested	NONE	NONE
[deg] Pointing Dec	41.184514	41.1954517588504	Alternating exposures requested	N	N
[deg] Pointing Roll	126.090642	126.3214843836668	[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)	560519817.184000	560518656.95397			
Observation start date	2015-10-06T11:55:49	2015-10-06T11:37:36			
[s] Observation end time (MET)	560524817.184000	560524950.96682			
Observation end date	2015-10-06T13:19:09	2015-10-06T13:22:30			
Read mode	TIMED	TIMED			

2.3 Aspect



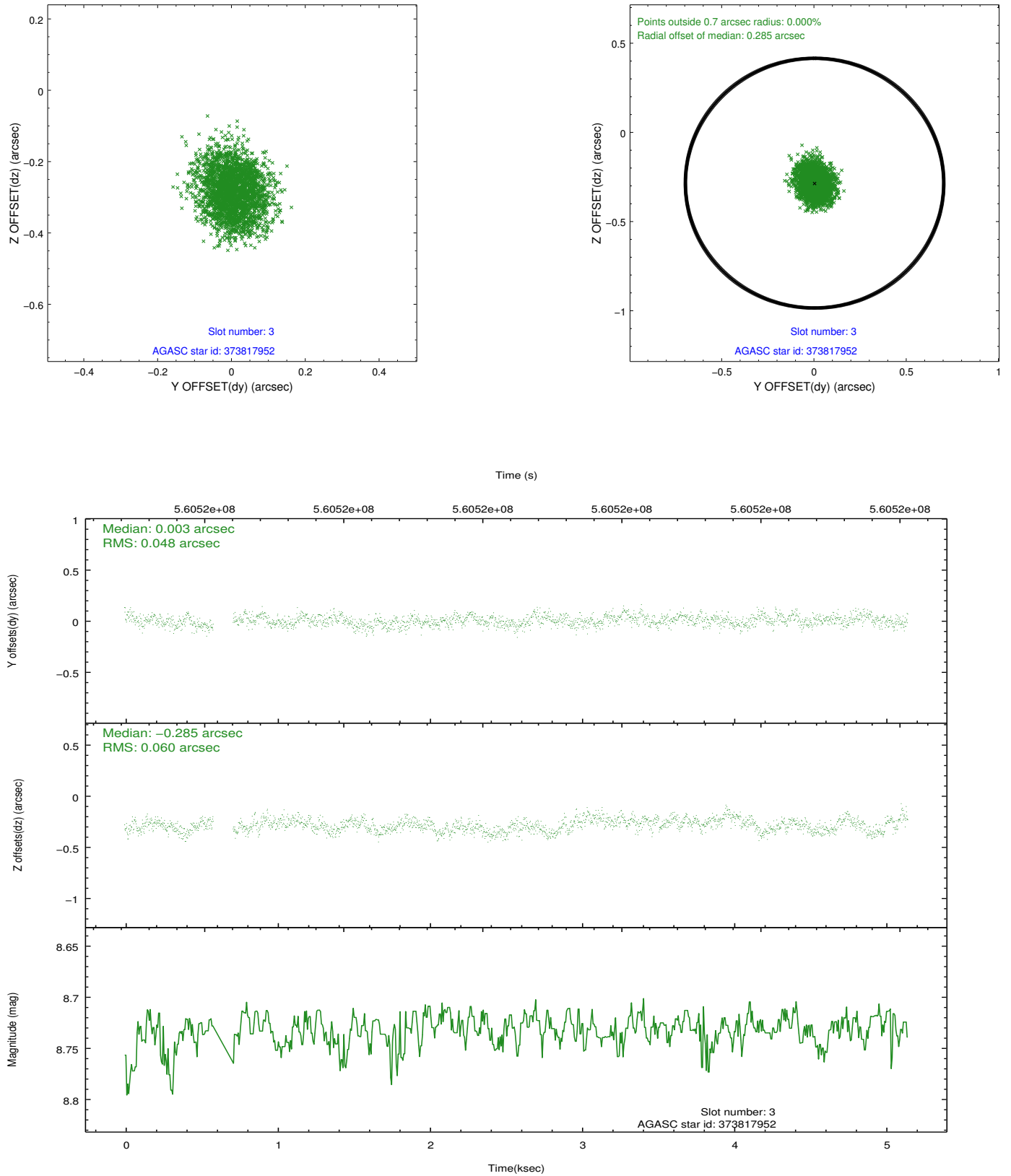


Slot Statistics

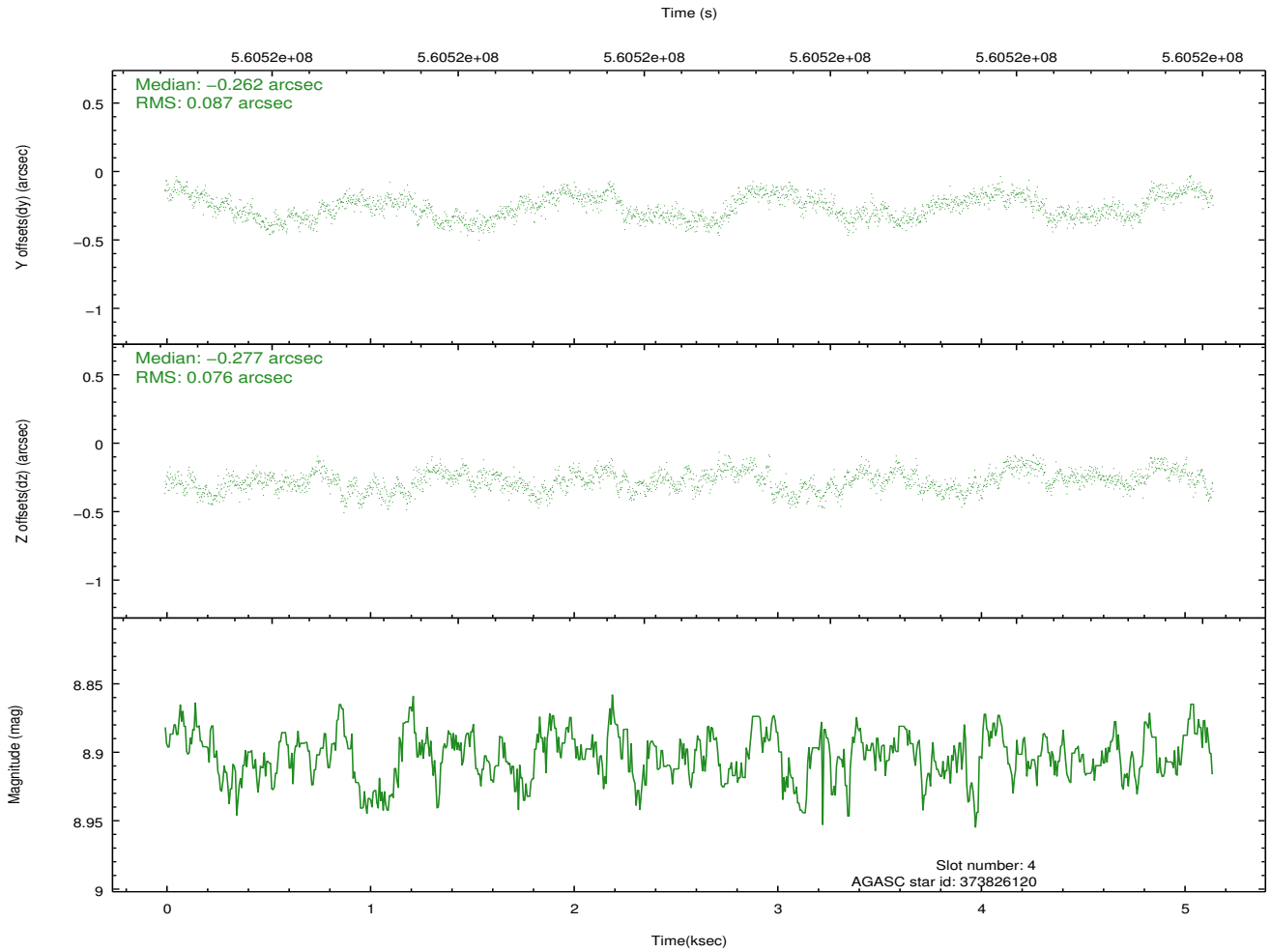
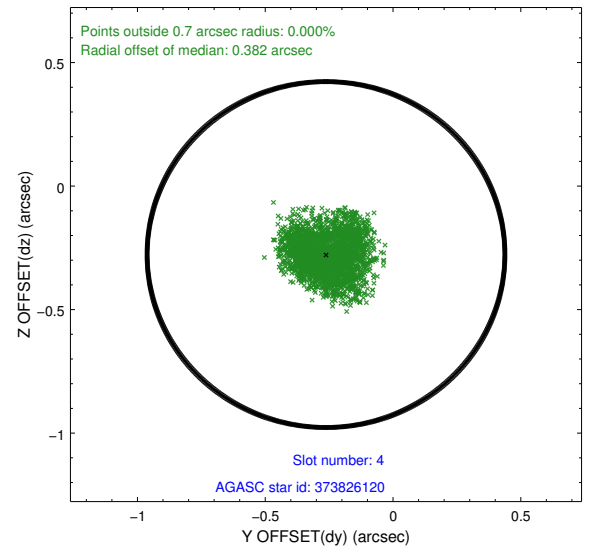
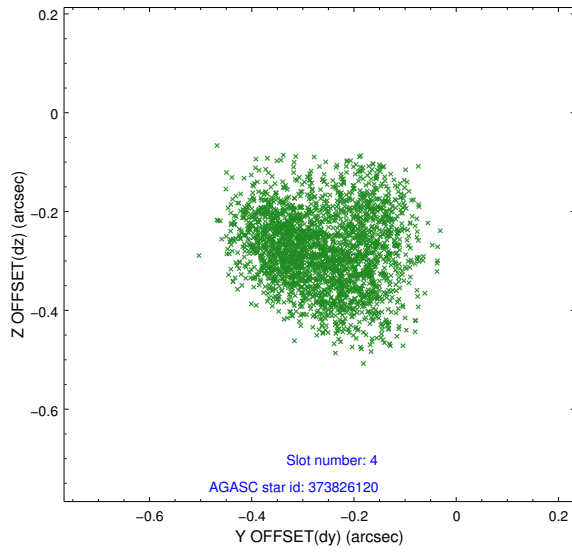
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.24	1256	0.129	-0.089	0.033	0.048	0.000000	0.000000	932.26	-840.86
1	FID		ACIS-I-5	7.23	1256	-0.298	0.104	0.011	0.018	0.000000	0.000000	-1815.63	1056.23
2	FID		ACIS-I-6	7.23	1256	0.076	0.058	0.025	0.039	0.000000	0.000000	396.47	1702.04
3	GUIDE	used	373817952	8.73	2446	0.003	-0.285	0.083	0.131	49.913424	40.978510	-682.36	321.90
4	GUIDE	used	373826120	8.90	2512	-0.262	-0.277	0.127	0.189	49.738165	41.186341	201.91	265.53
5	GUIDE	used	375534552	8.19	2511	0.159	0.149	0.073	0.121	50.877490	41.206927	-1542.62	-2280.80
6	GUIDE	used	375534824	9.04	2512	0.127	0.351	0.148	0.235	50.943864	41.119832	-1902.68	-2246.76
7	GUIDE	used	376070040	8.41	2511	-0.013	0.062	0.105	0.163	50.072031	41.897206	1740.86	-1968.68

2.4 Star Slots

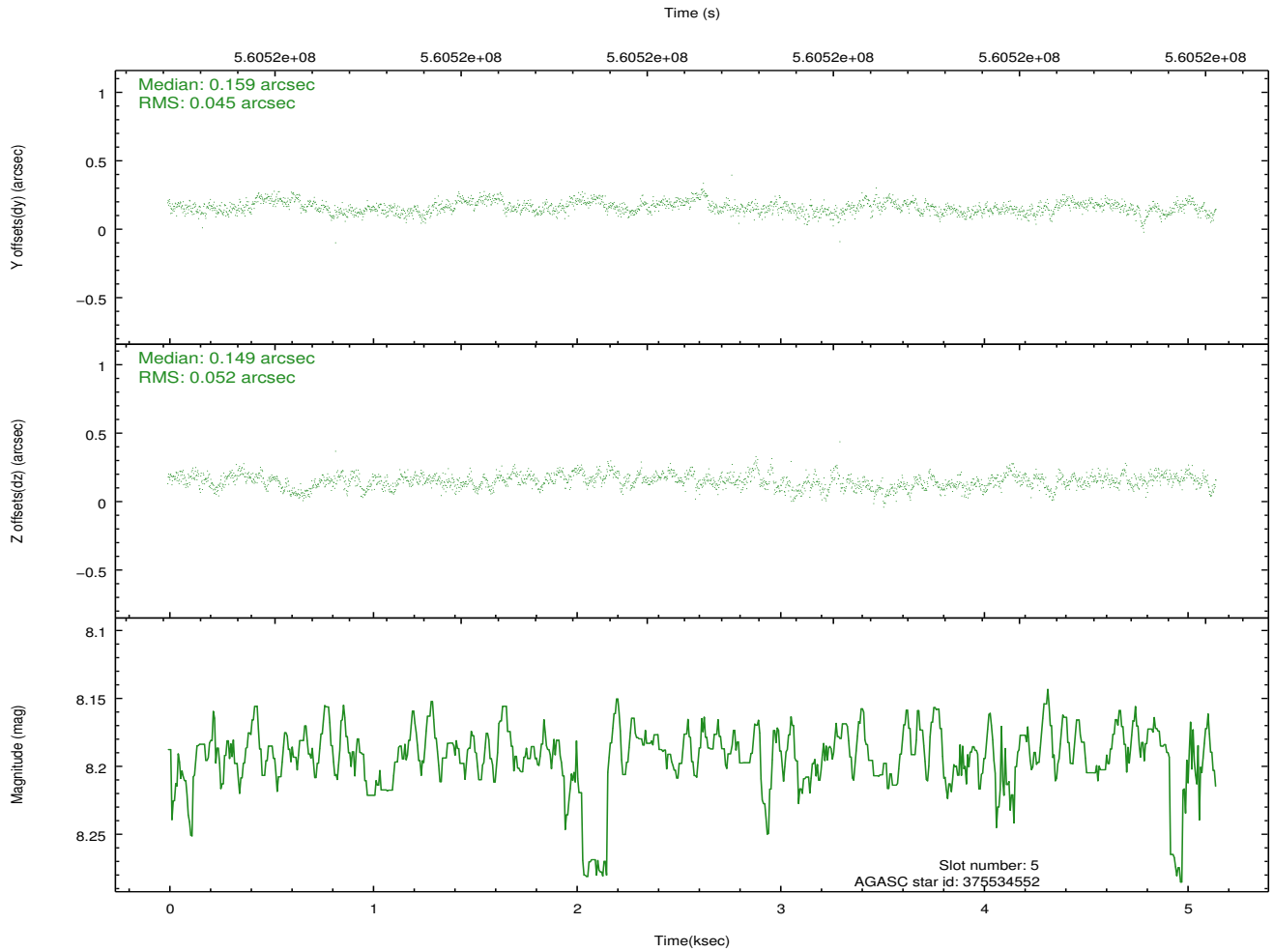
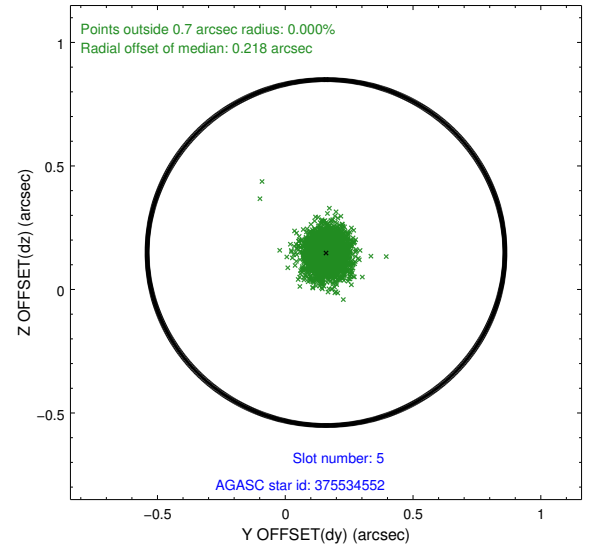
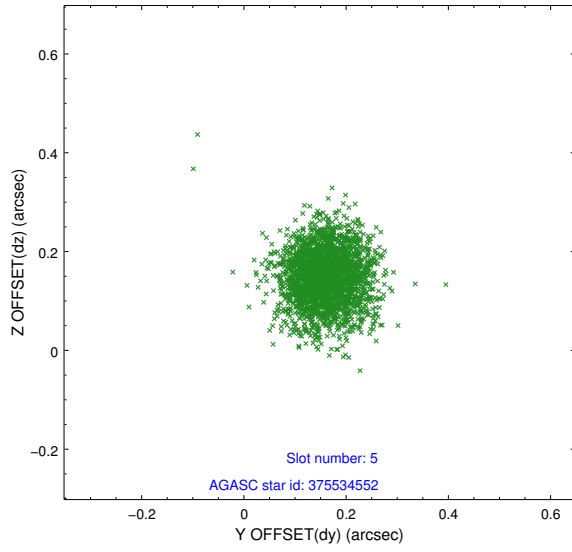
2.4.1 Slot 3



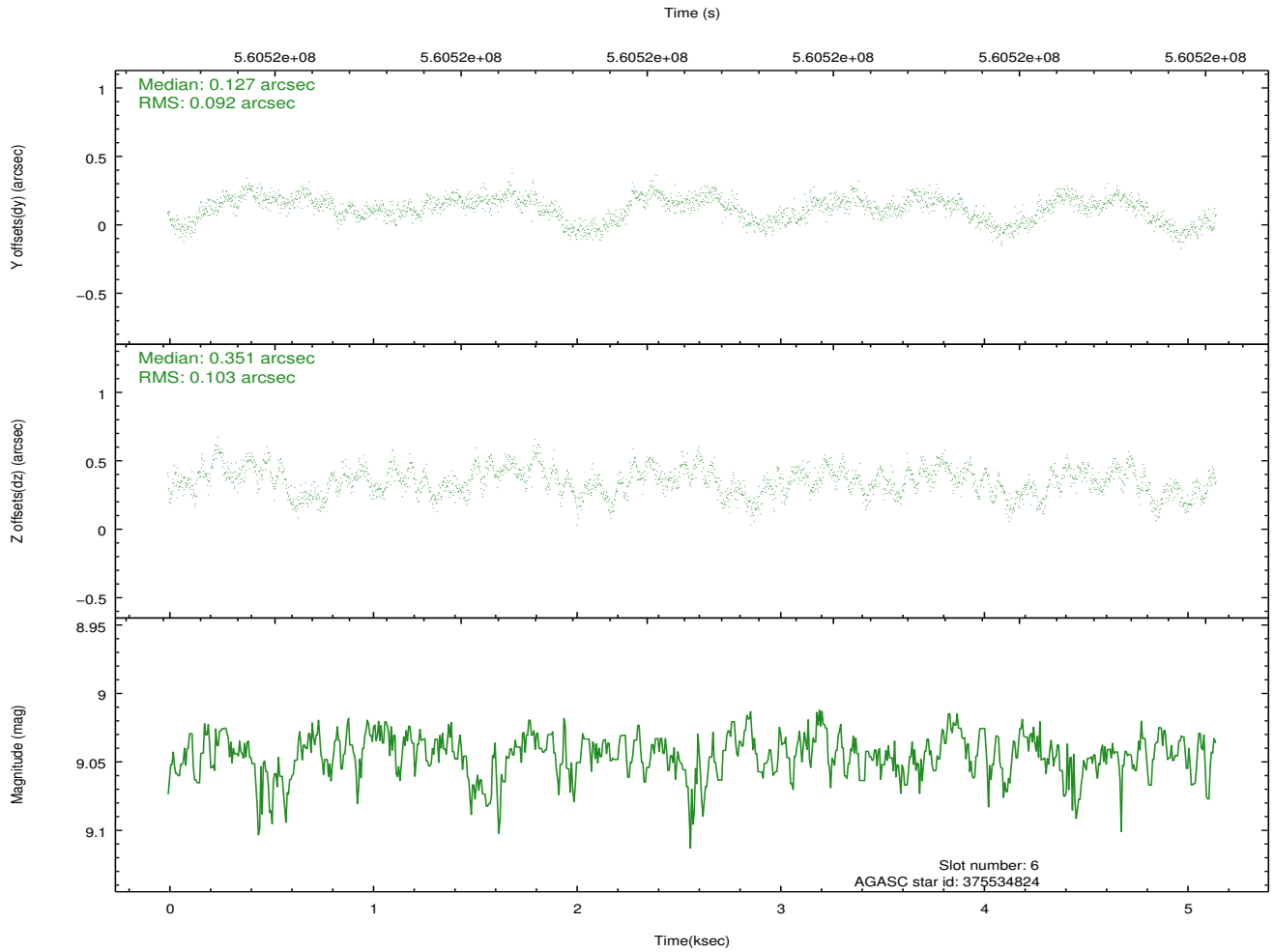
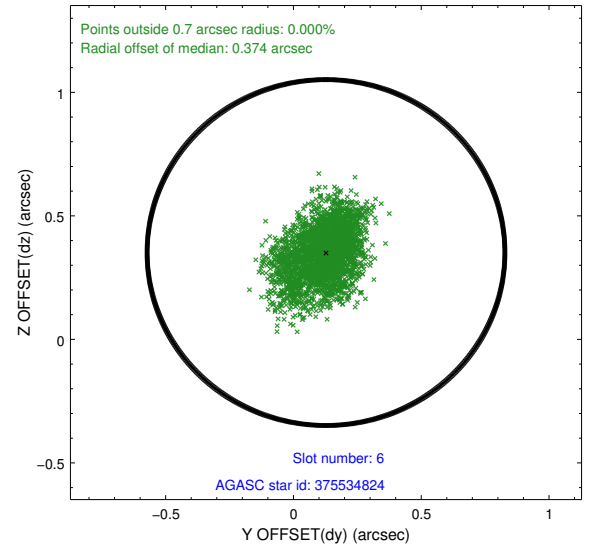
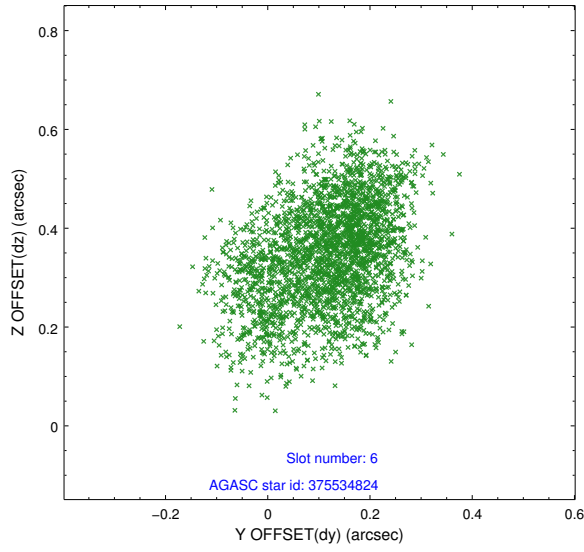
2.4.2 Slot 4



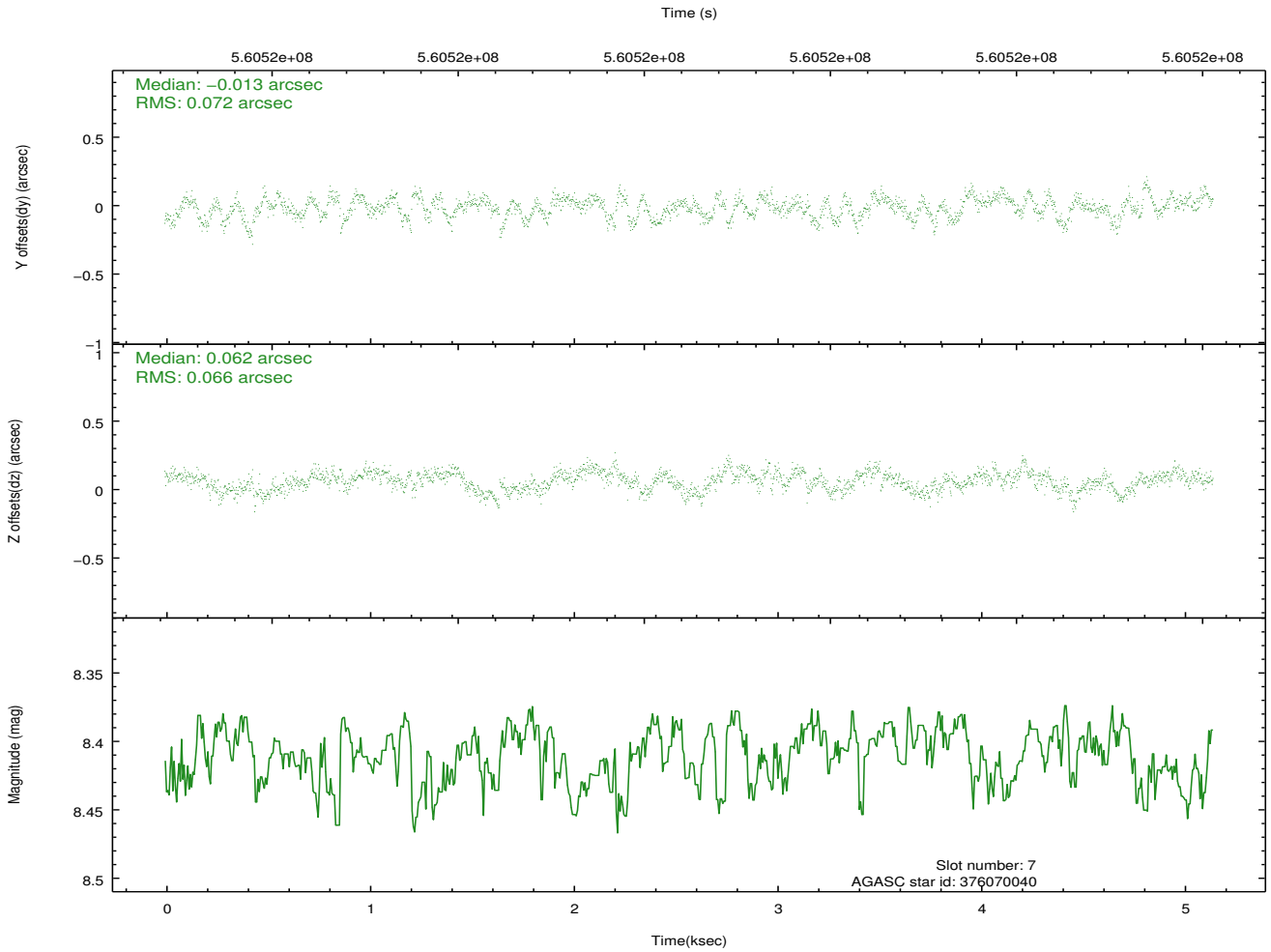
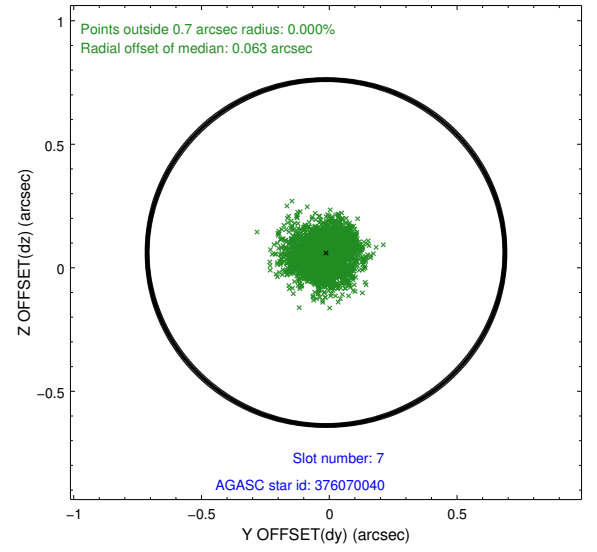
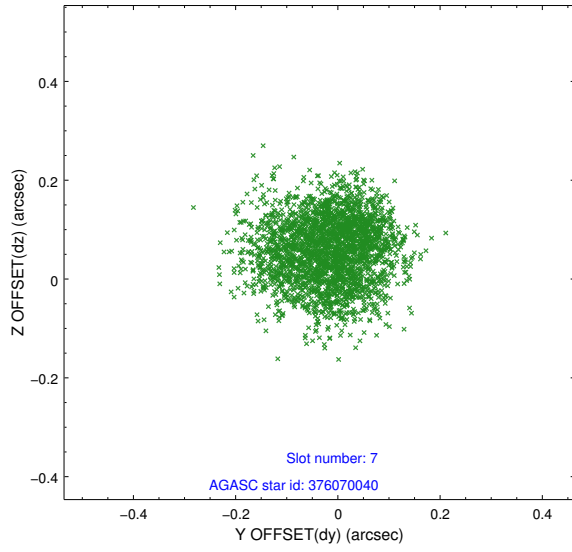
2.4.3 Slot 5



2.4.4 Slot 6

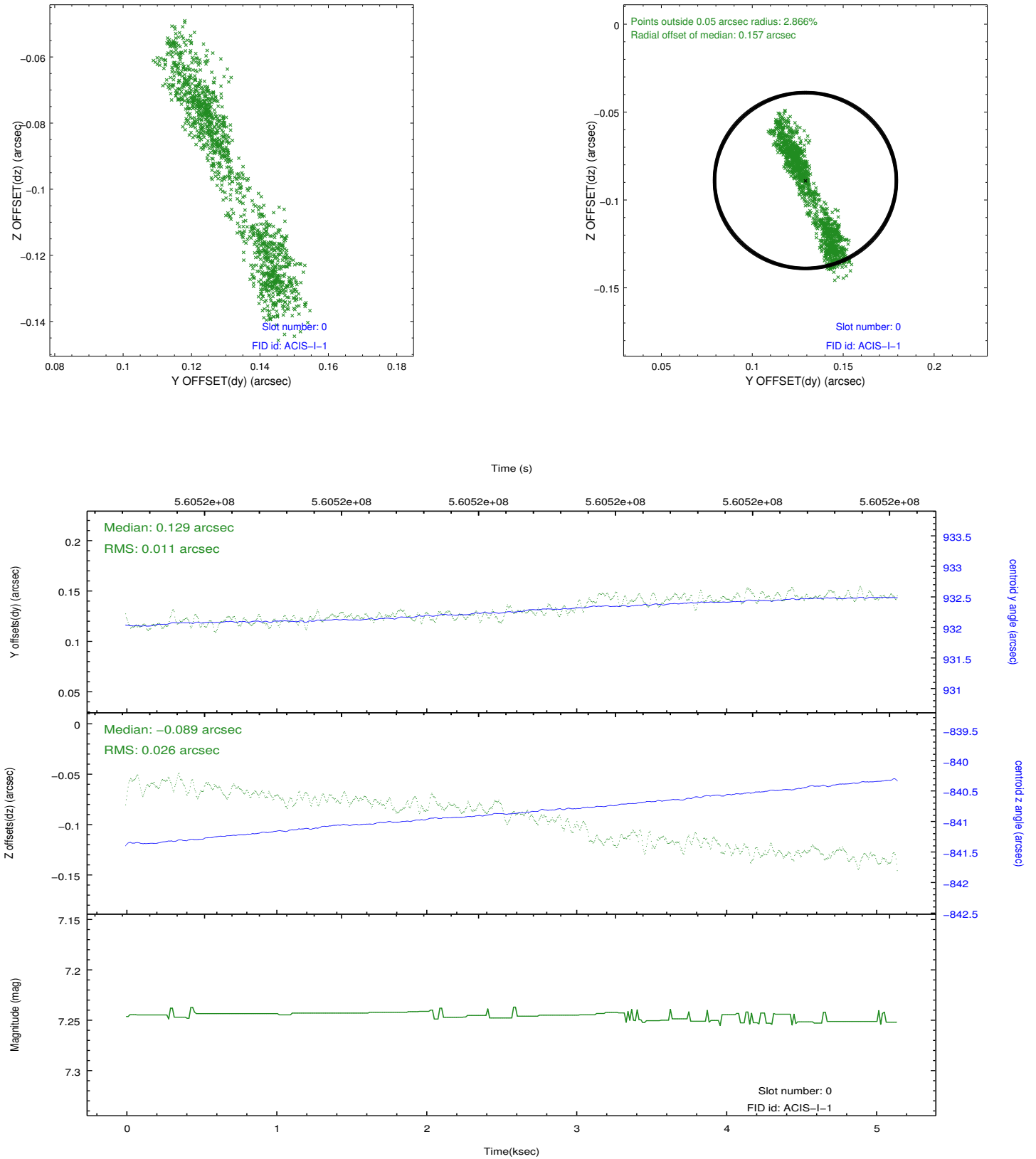


2.4.5 Slot 7

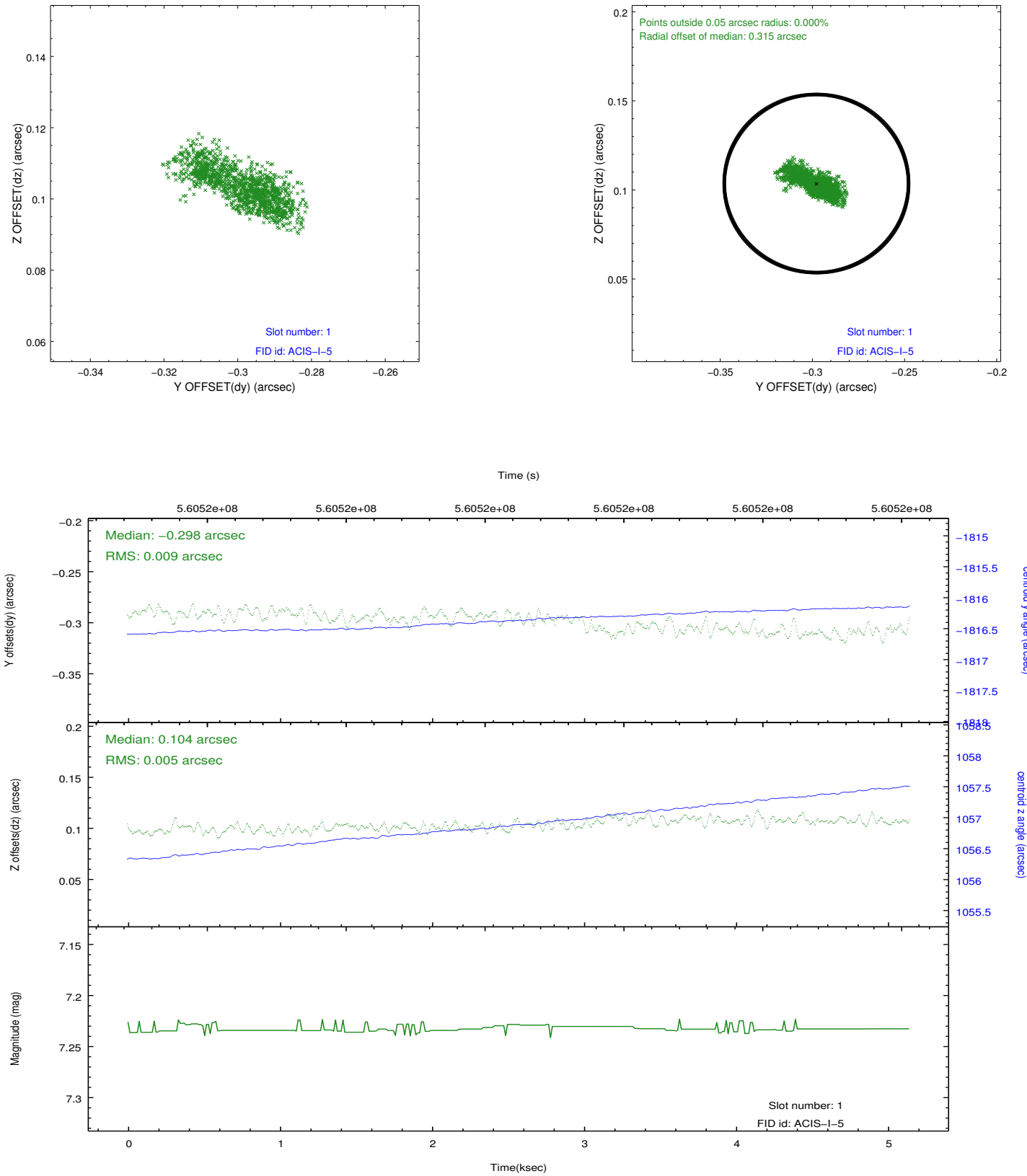


2.5 FID Slots

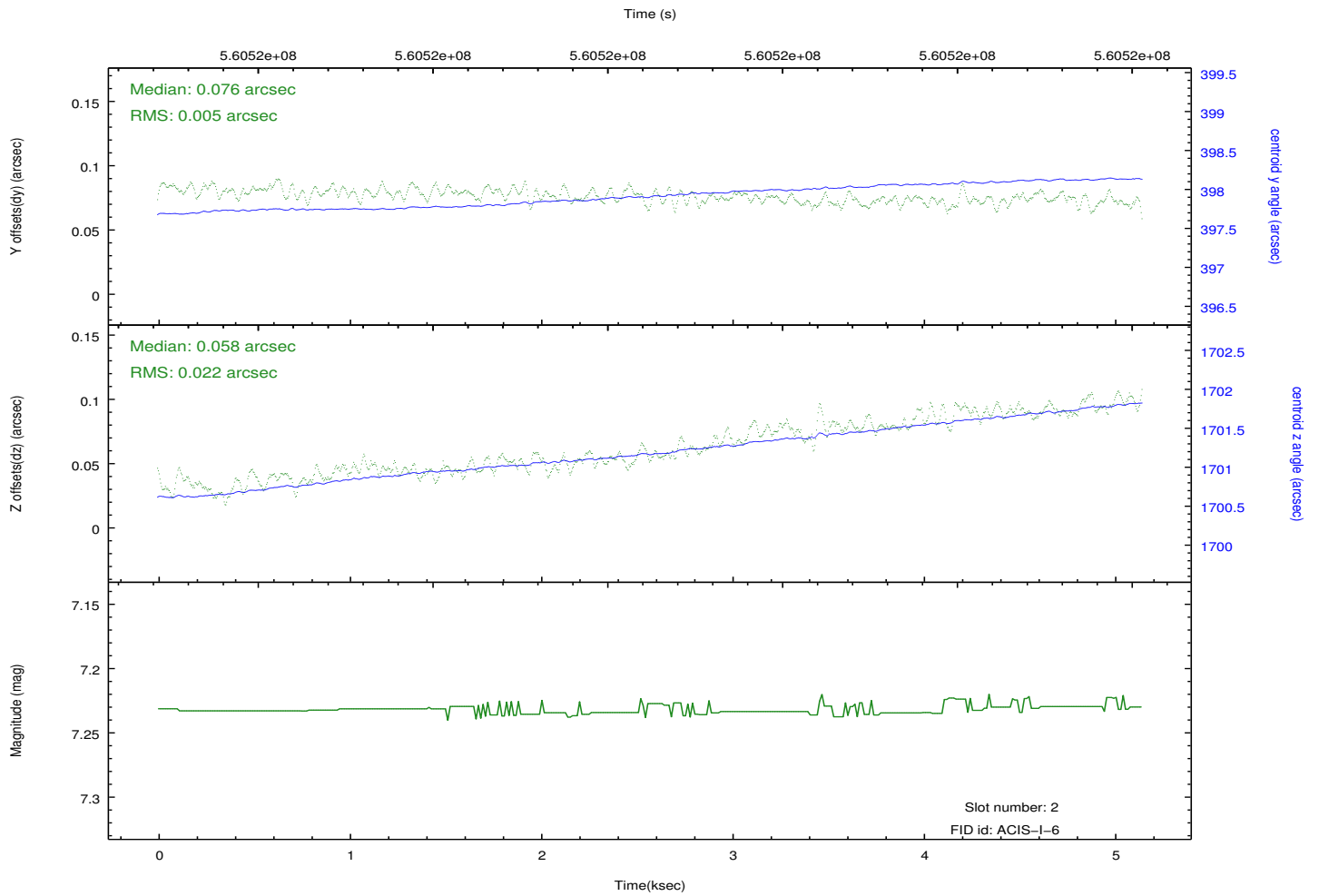
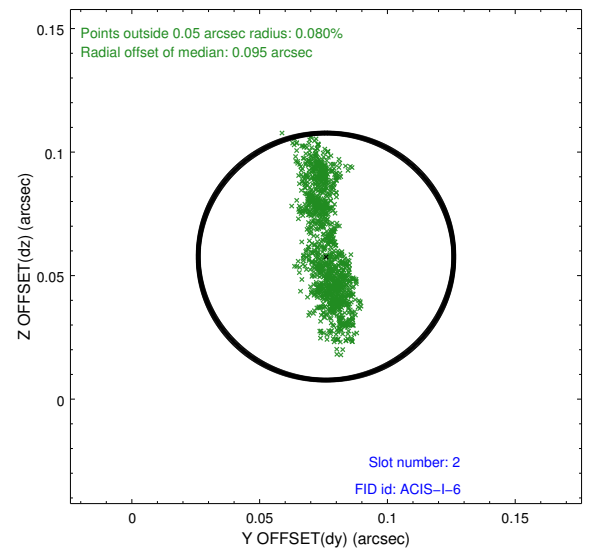
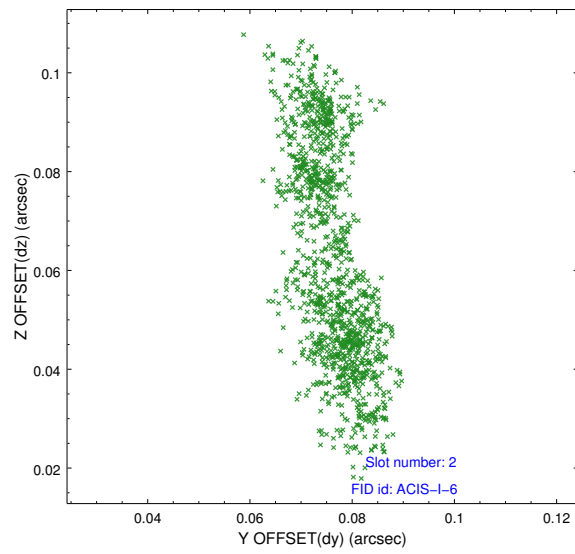
2.5.1 Slot 0



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)	2015.10.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0871000392437

A.2 Comments