

V&V Reference Report

L2 ASCDS Version : 10.4.2.1

Observation 17285 - L2 Version 1
Chandra X-Ray Center

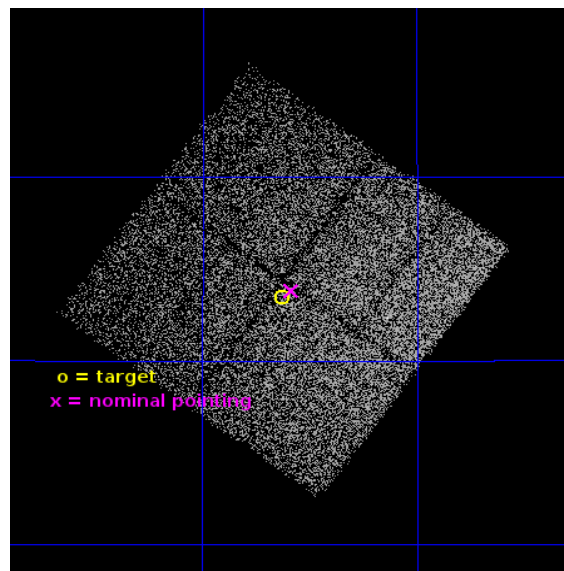
L2 Processing Date : Oct 6 2015

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

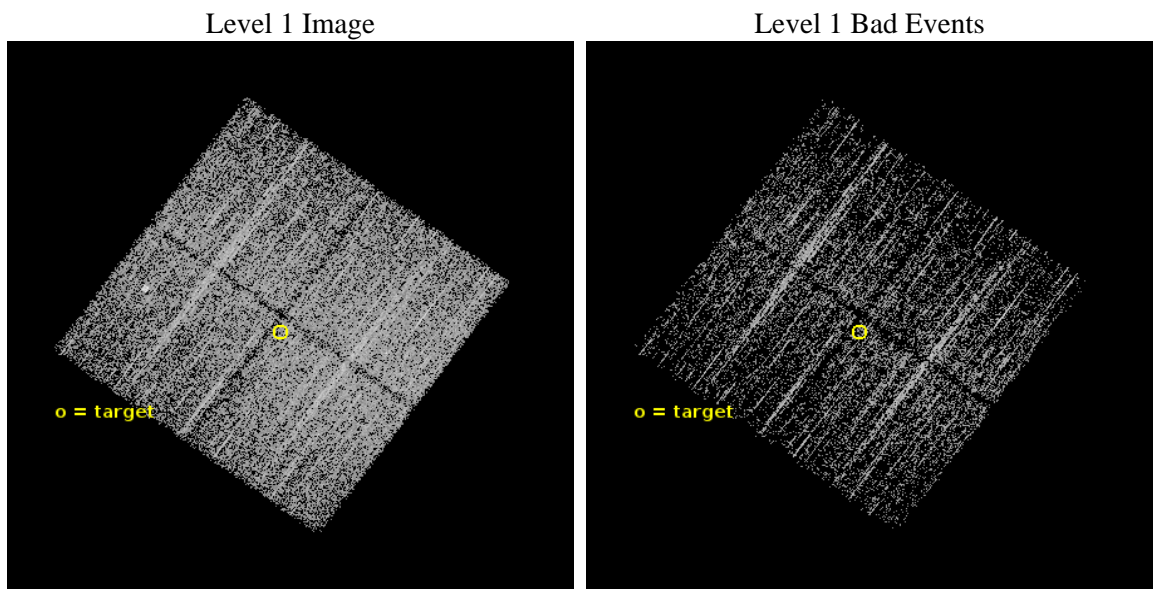
seq_num	801530	Sequence number
obs_id	17285	Observation id
title	Perseus: A New, Low-Redshift Anchor for Cluster Cosmology	Proposal
observer	Prof. Steven Allen	Principal investigator
object	Perseus cluster	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	50.40727	Observer's specified target RA [deg]
dec_targ	41.557978	Observer's specified target Dec [deg]
ra_nom	50.396285354513	Nominal RA [deg]
dec_nom	41.563630465739	Nominal Dec [deg]
roll_nom	126.07550630235	Nominal Roll [deg]
revision	1	Processing version of data
ontime	4794.3015047312	Sum of GTIs [s]
livetime	4731.6604260584	Livetime [s]
ontime0	4794.1783748865	Sum of GTIs [s]
ontime1	4794.2194148302	Sum of GTIs [s]
ontime2	4794.2604548931	Sum of GTIs [s]
ontime3	4794.3015047312	Sum of GTIs [s]
l2events	34163	Number of level 2 events



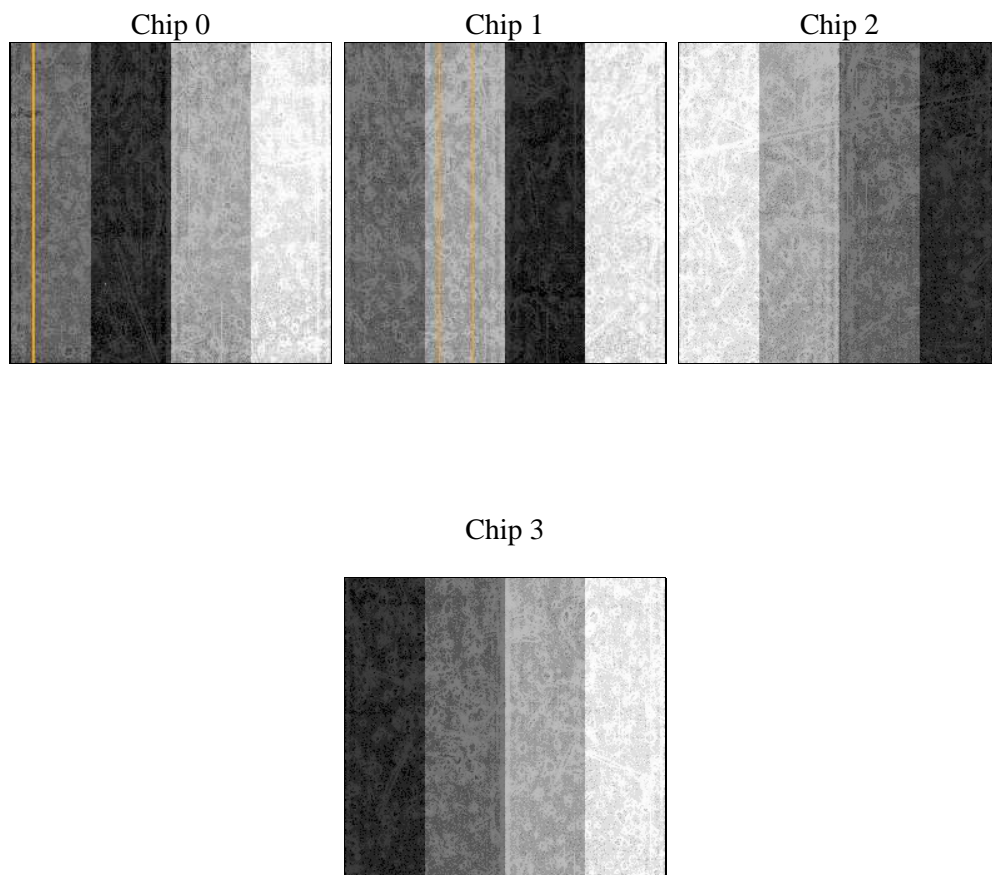
2 OBI

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	4794.3015047312	Sum of GTIs [s]
caldsver	4.6.10a	 	ontime0	4794.1783748865	Sum of GTIs [s]
date	2015-10-07T03:26:22	Date and time of file creation	ontime1	4794.2194148302	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	4794.2604548931	Sum of GTIs [s]
			ontime3	4794.3015047312	Sum of GTIs [s]
			l1events	120214	Number of level 1 events

2.1.4 Events

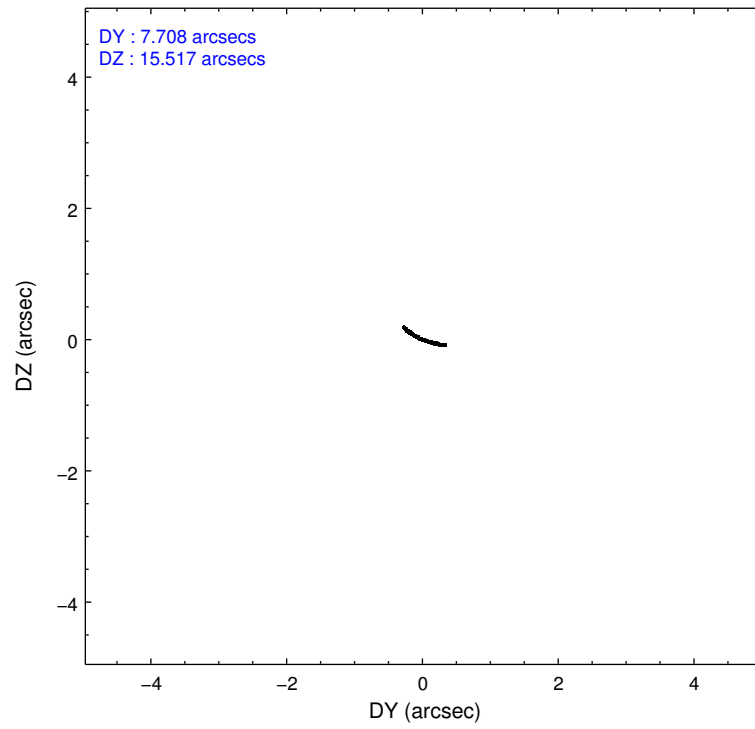
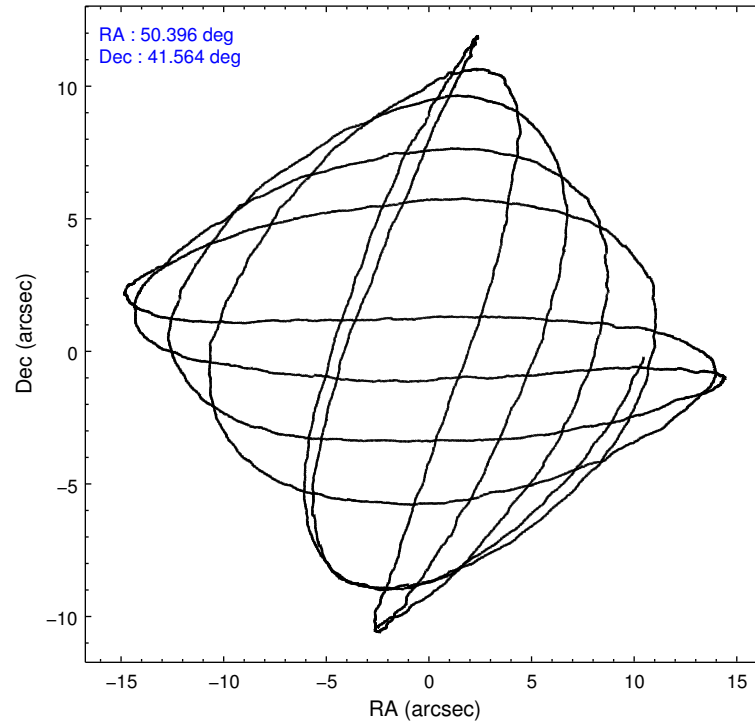
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	27475	26471	34990	31278
rejected events	20530	19522	21422	20852
rejected %	74%	73%	61%	66%

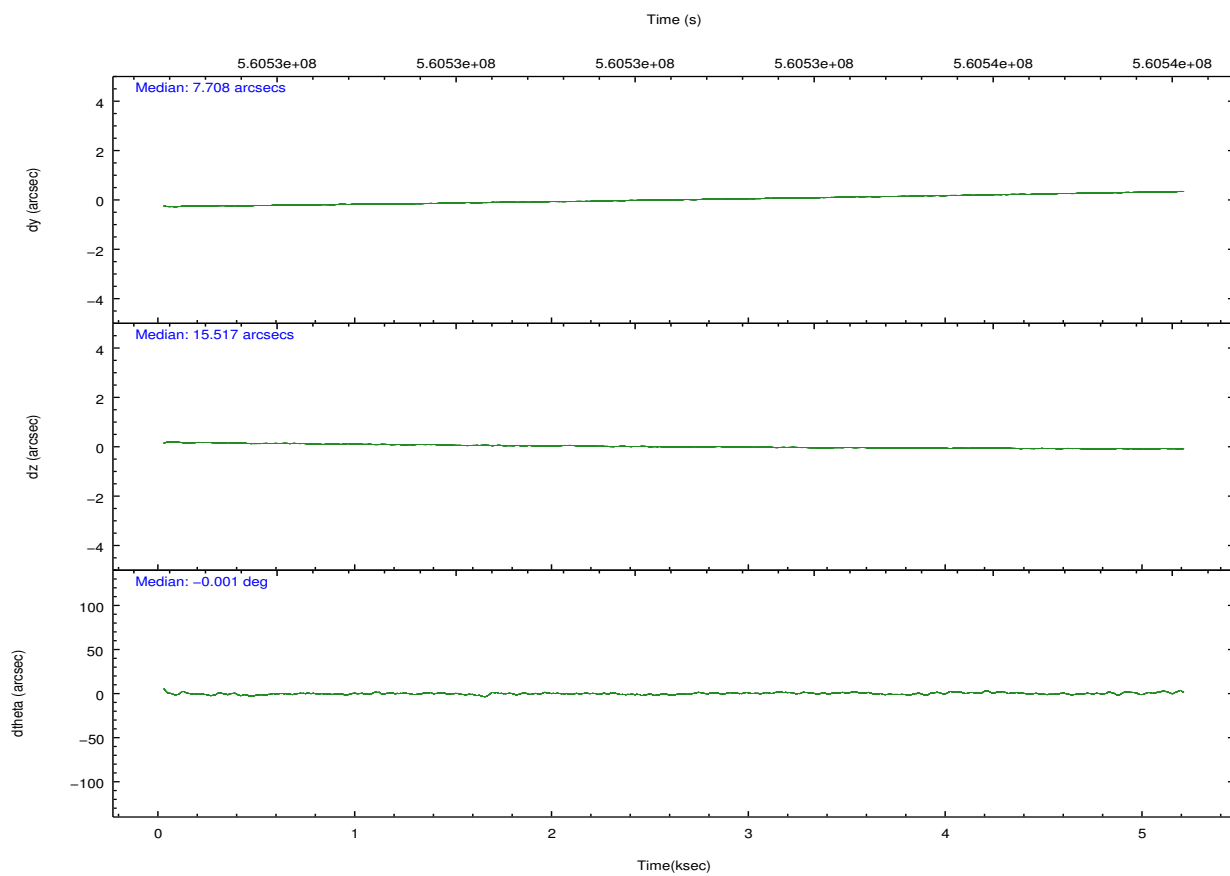
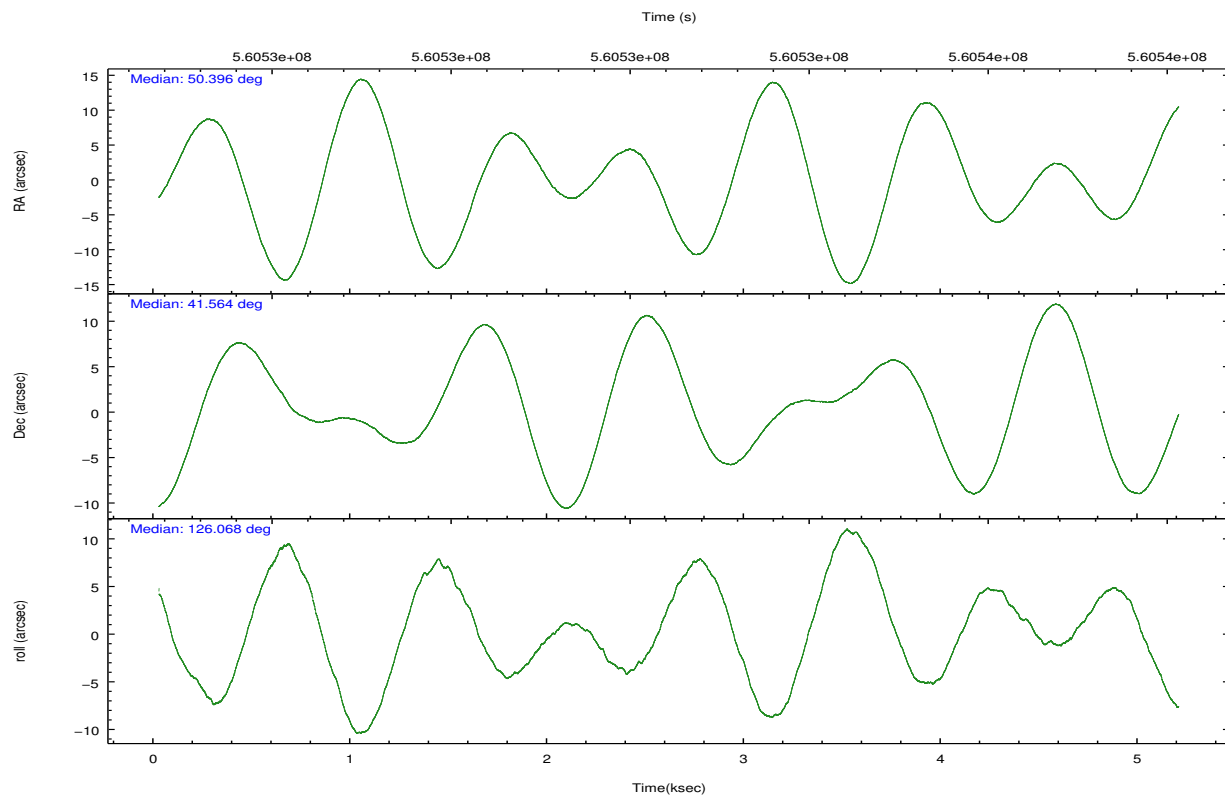
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	4258	4110	9689	7087
	15%	15%	27%	22%
grade 1 events	28	34	47	43
	0%	0%	0%	0%
grade 2 events	1130	1170	1707	1432
	4%	4%	4%	4%
grade 3 events	445	442	639	558
	1%	1%	1%	1%
grade 4 events	423	435	660	581
	1%	1%	1%	1%
grade 5 events	1148	1220	1096	1341
	4%	4%	3%	4%
grade 6 events	702	801	881	783
	2%	3%	2%	2%
grade 7 events	19341	18259	20271	19453
	70%	68%	57%	62%

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	50.430039	50.3962853545134	Subarray requested	NONE	NONE
[deg] Pointing Dec	41.552615	41.56363046573855	Alternating exposures requested	N	N
[deg] Pointing Roll	125.844423	126.0755063023459	[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)	560530837.184000	560530461.36713			
Observation start date	2015-10-06T14:59:29	2015-10-06T14:54:21			
[s] Observation end time (MET)	560535837.184000	560535971.25494			
Observation end date	2015-10-06T16:22:49	2015-10-06T16:26:11			
Read mode	TIMED	TIMED			

2.3 Aspect



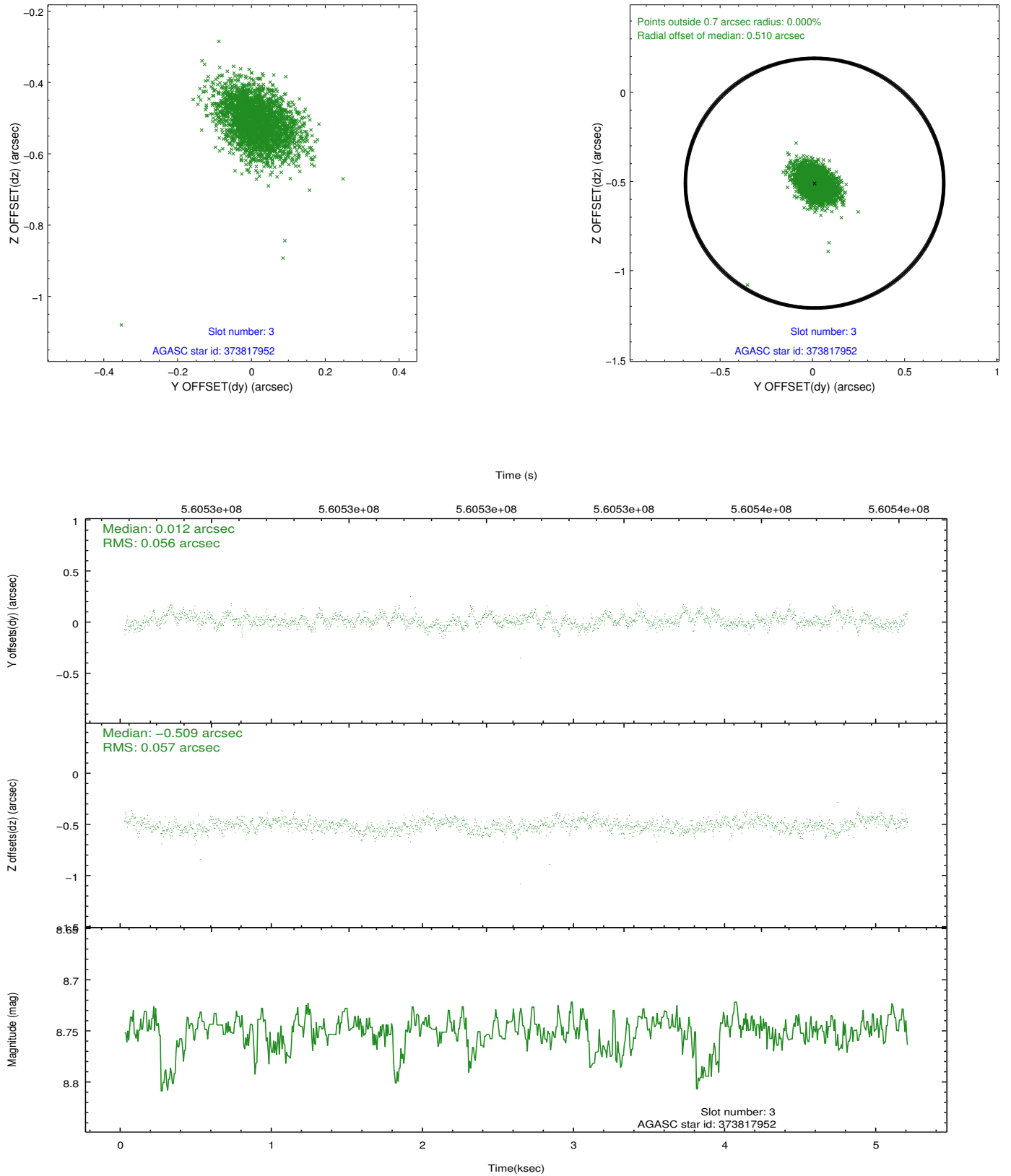


Slot Statistics

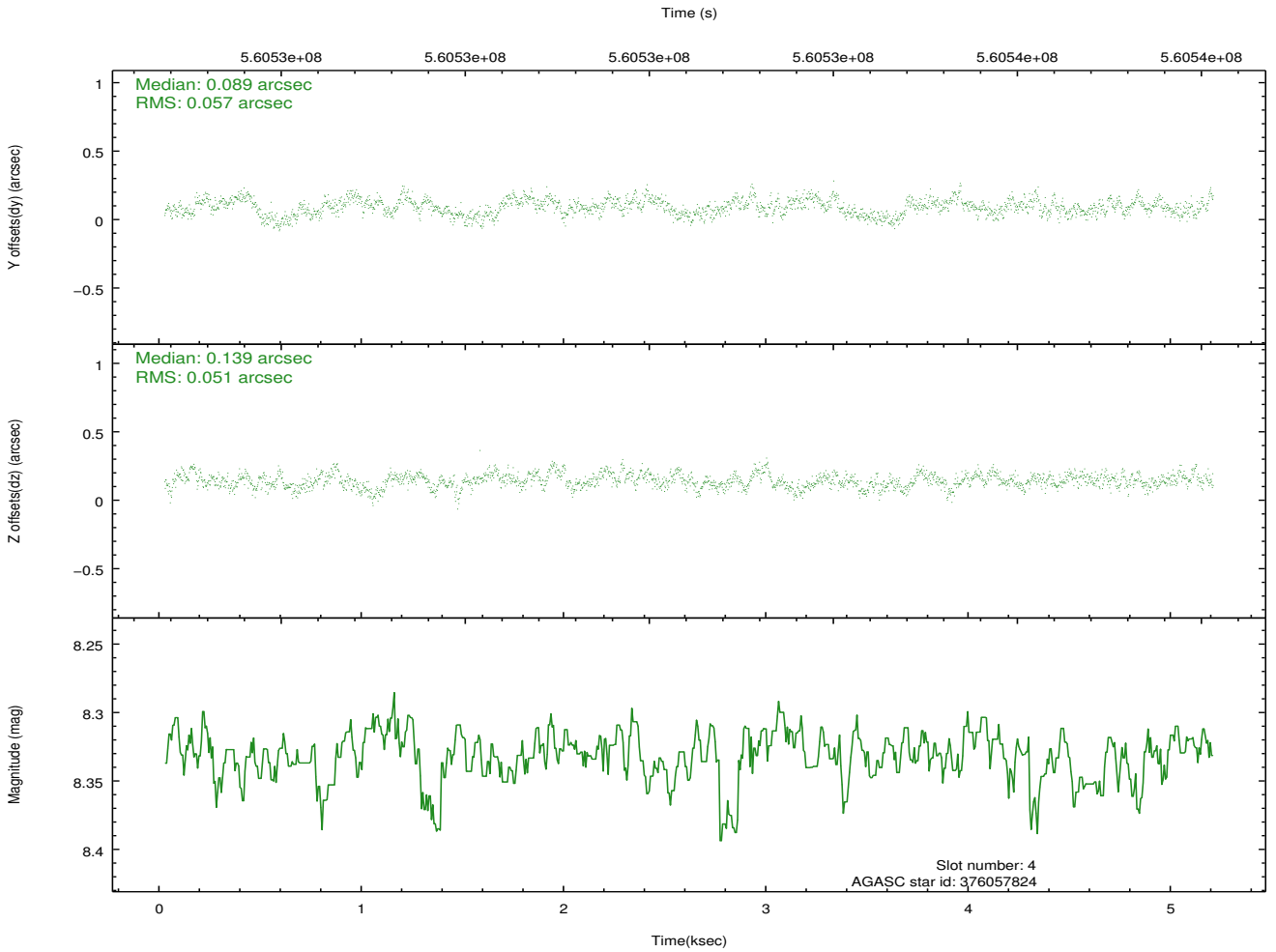
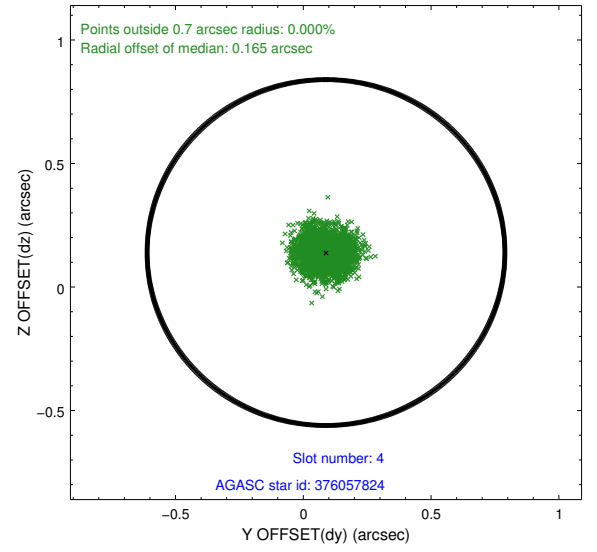
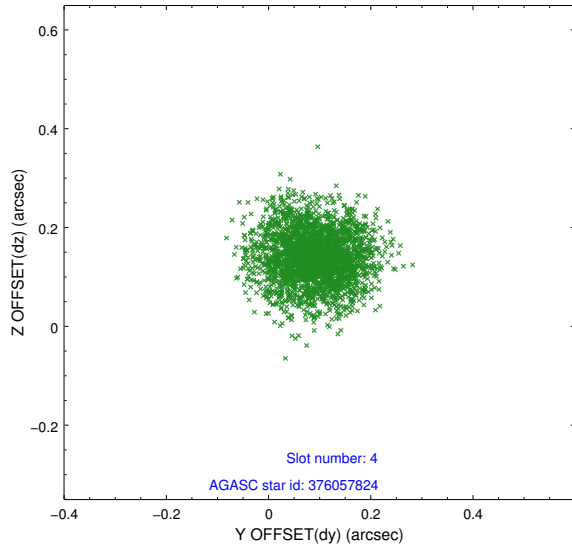
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-2	7.15	1264	-0.249	-0.187	0.012	0.022	0.000000	0.000000	-762.50	-845.69
1	FID		ACIS-I-4	7.18	1264	0.199	0.111	0.014	0.023	0.000000	0.000000	2151.50	1060.14
2	FID		ACIS-I-6	7.23	1264	-0.049	0.139	0.013	0.024	0.000000	0.000000	399.32	1703.71
3	GUIDE	used	373817952	8.75	2525	0.012	-0.509	0.083	0.136	49.913424	40.978510	-849.78	2345.51
4	GUIDE	used	376057824	8.33	2526	0.089	0.139	0.084	0.131	50.665569	41.926280	721.41	-1298.32
5	GUIDE	used	376068632	8.76	2526	-0.267	0.422	0.090	0.149	50.582093	42.167240	1557.07	-1624.62
6	GUIDE	used	376070040	8.39	2528	-0.030	-0.315	0.082	0.138	50.072031	41.897206	1569.76	49.39
7	GUIDE	used	376070440	6.95	2528	0.190	0.263	0.083	0.135	51.289107	41.257301	-2212.23	-1268.68

2.4 Star Slots

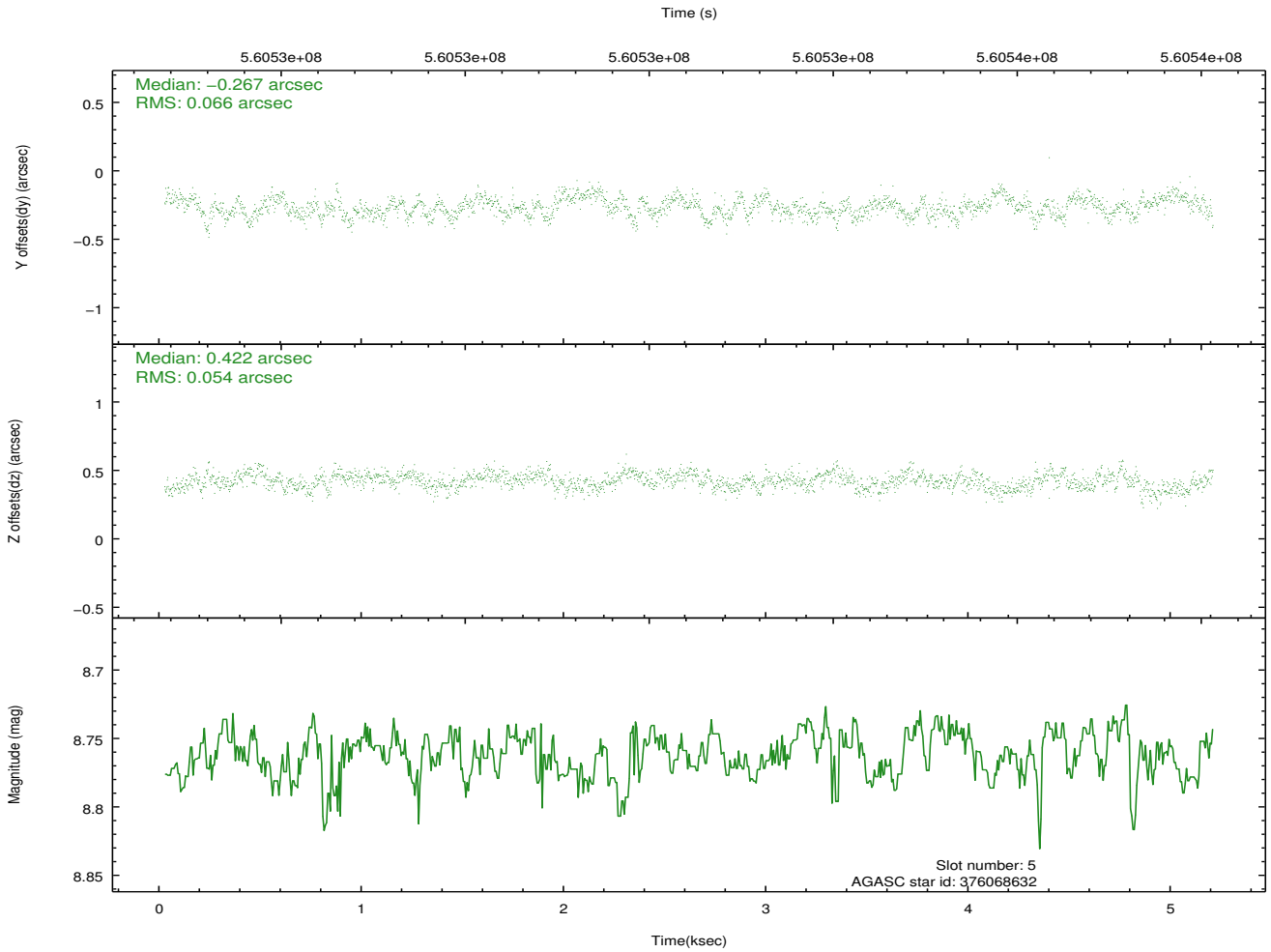
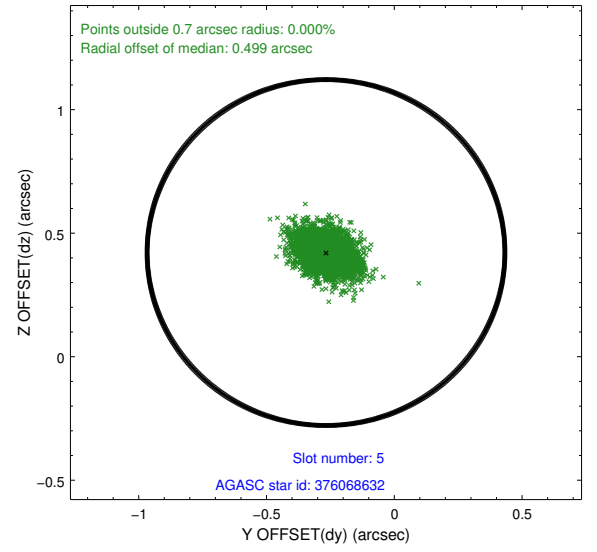
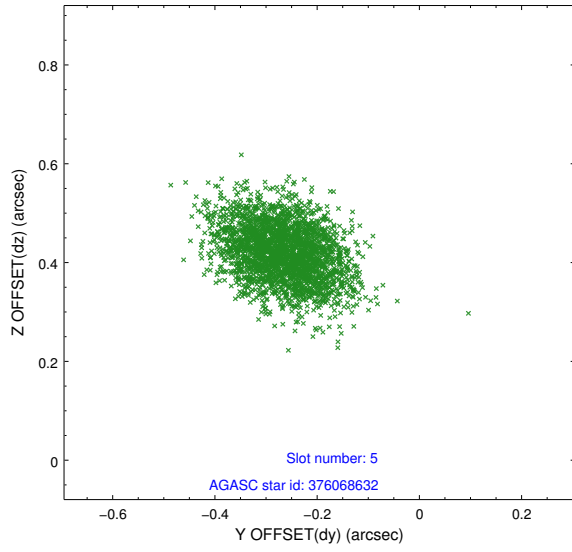
2.4.1 Slot 3



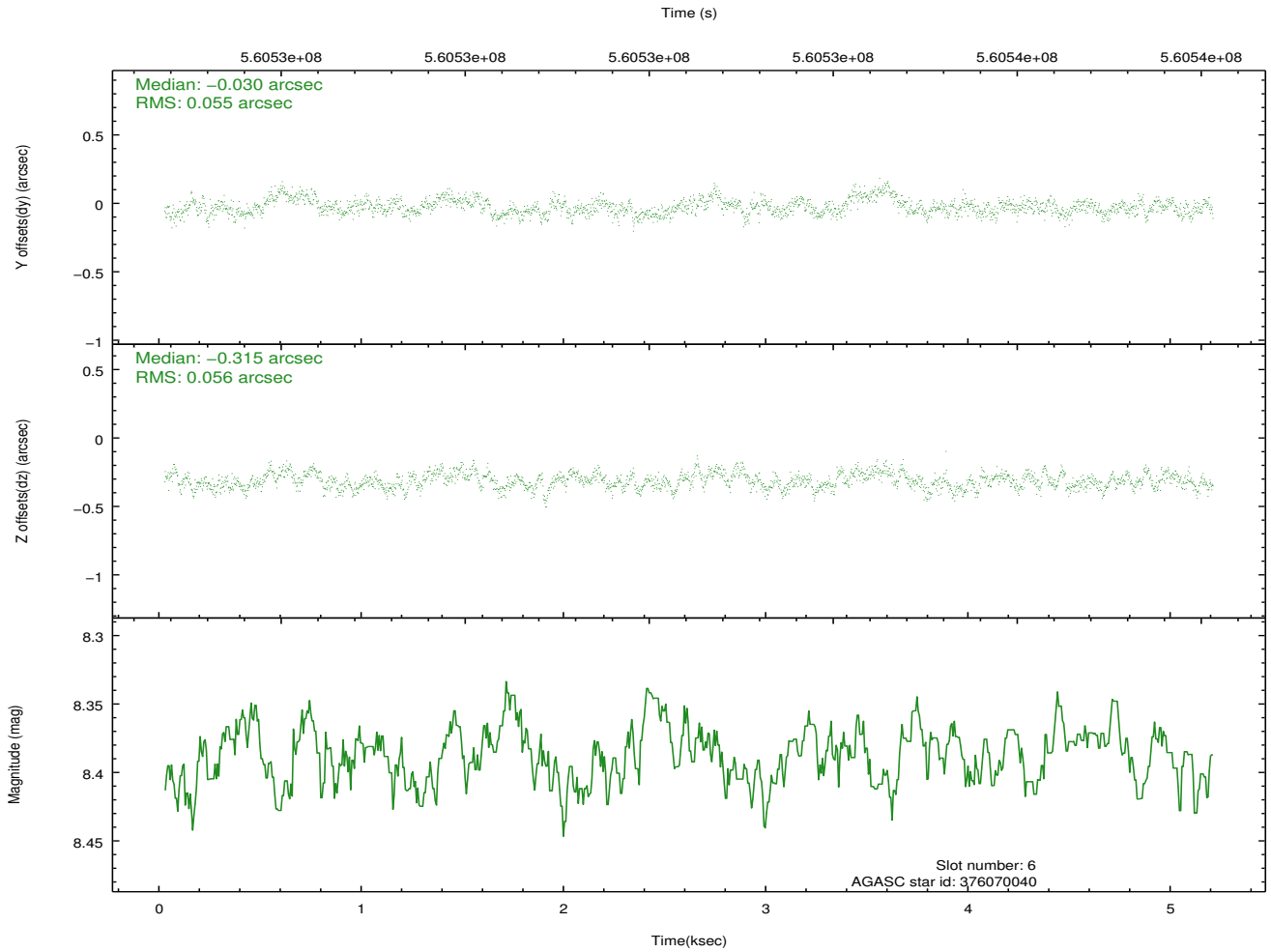
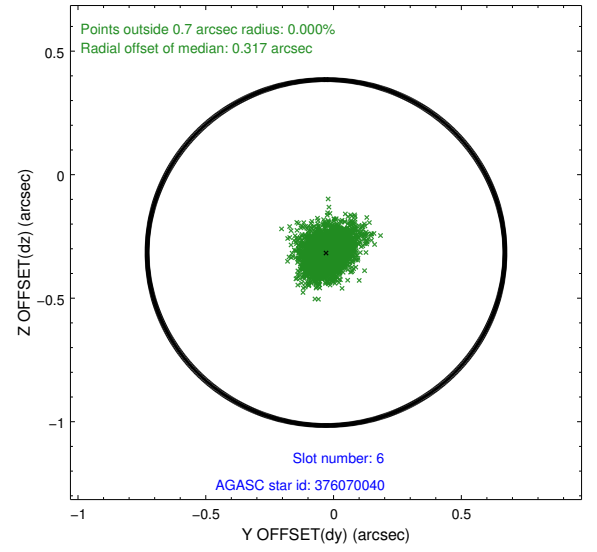
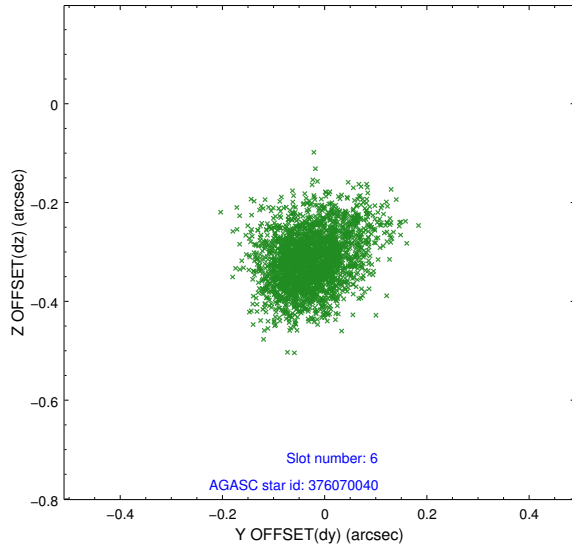
2.4.2 Slot 4



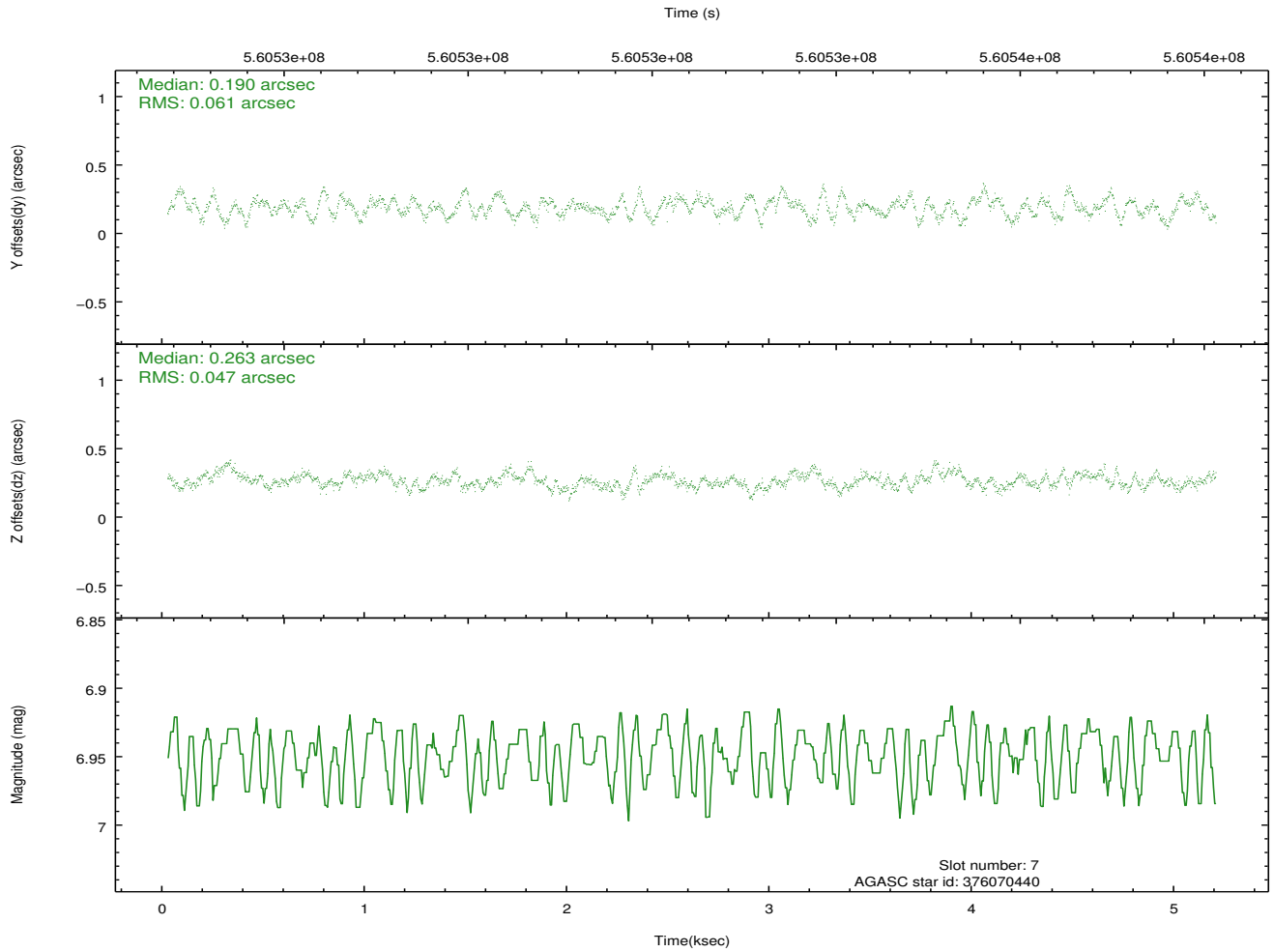
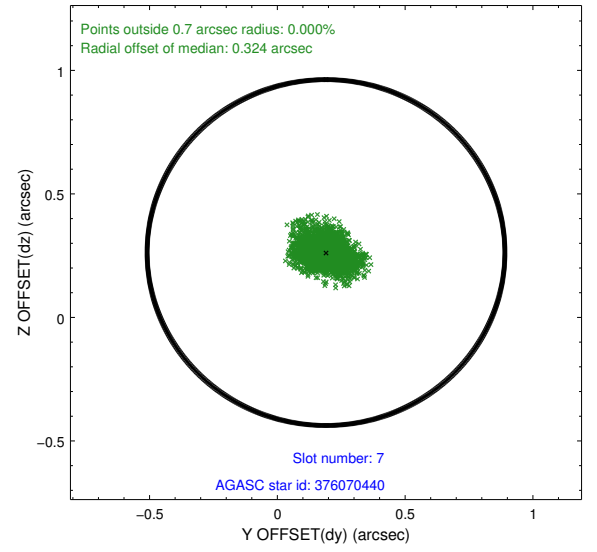
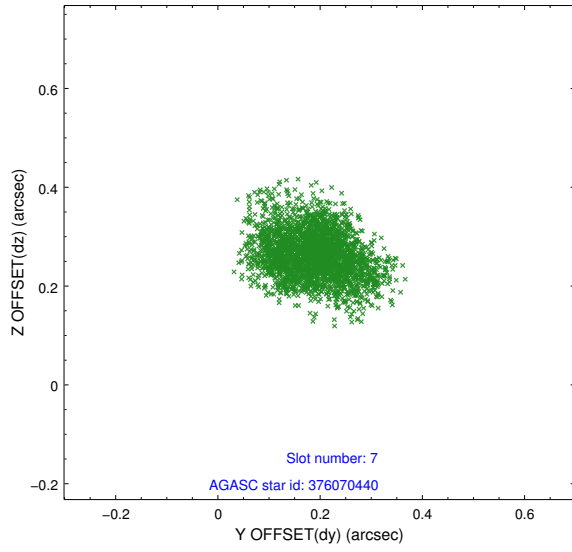
2.4.3 Slot 5



2.4.4 Slot 6

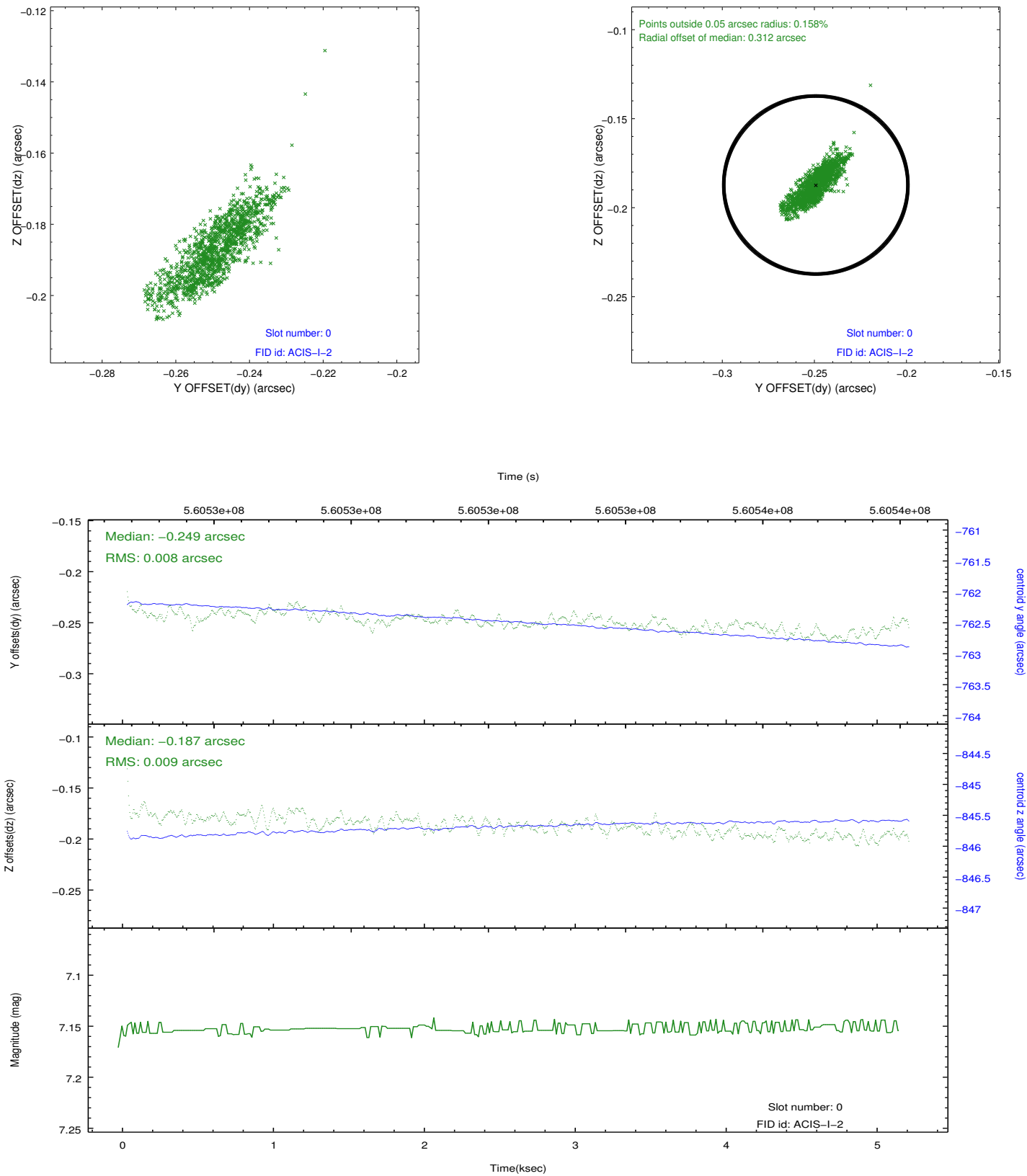


2.4.5 Slot 7

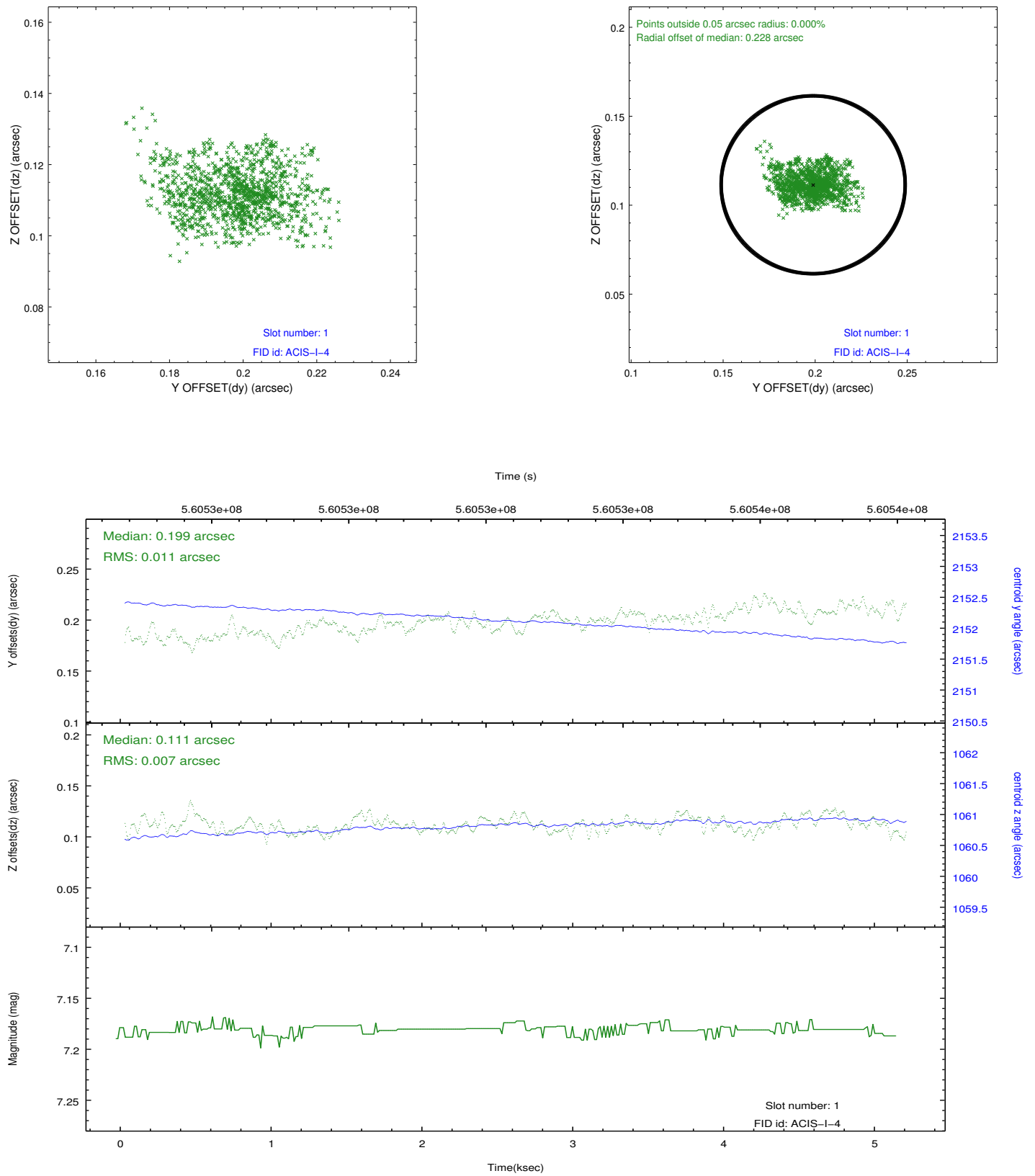


2.5 FID Slots

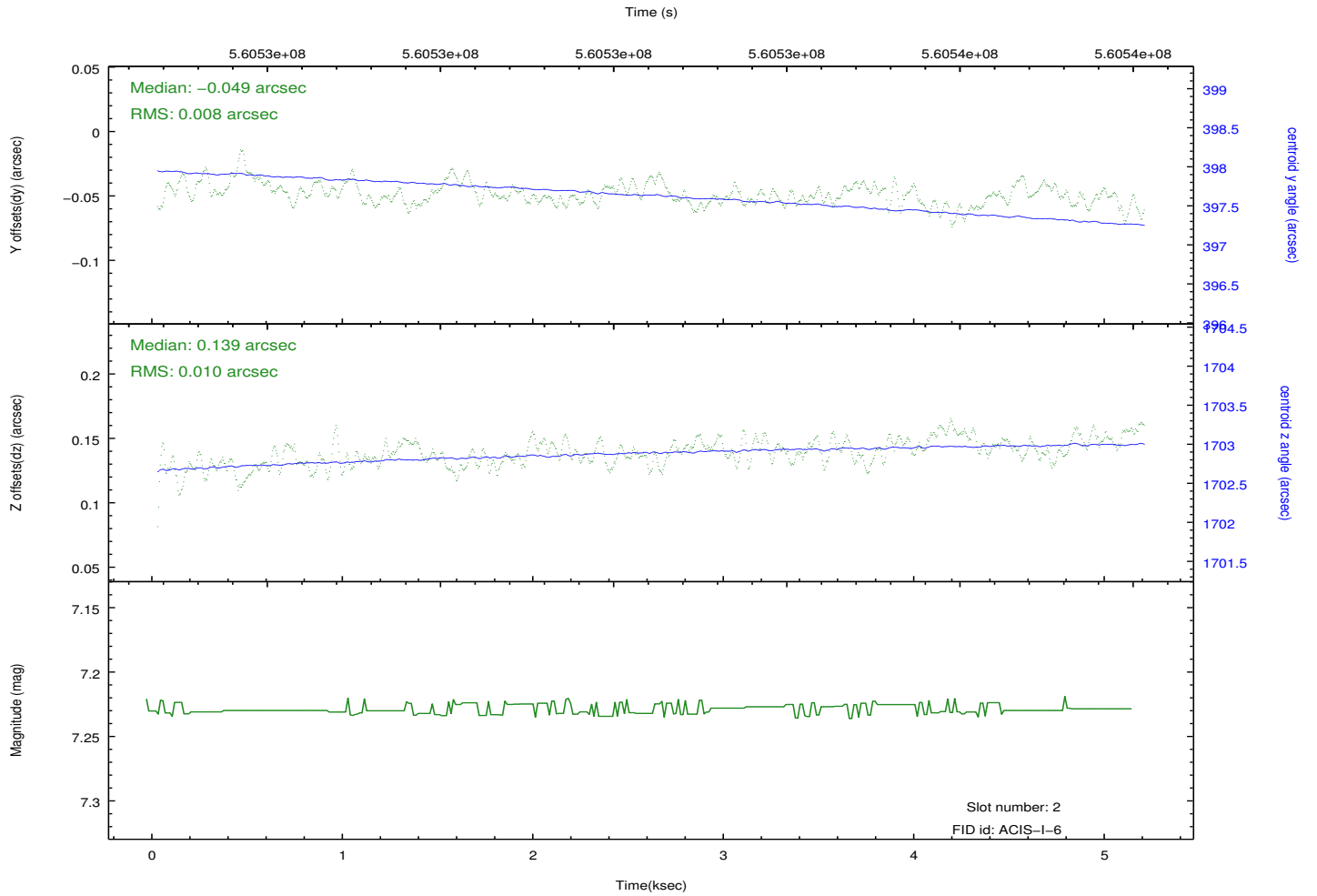
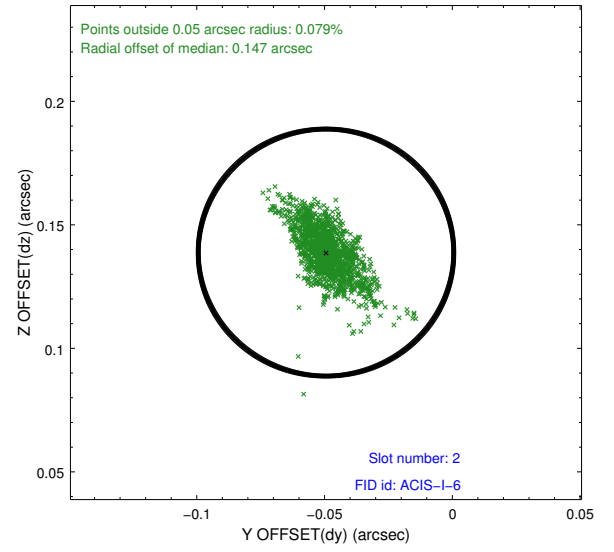
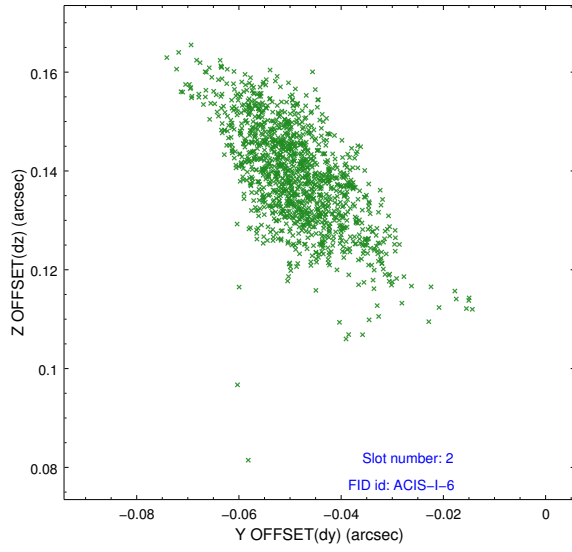
2.5.1 Slot 0



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	4.7943015047312

A.2 Comments