

V&V Reference Report

L2 ASCDS Version : 10.4.2.1

Observation 17284 - L2 Version 1
Chandra X-Ray Center

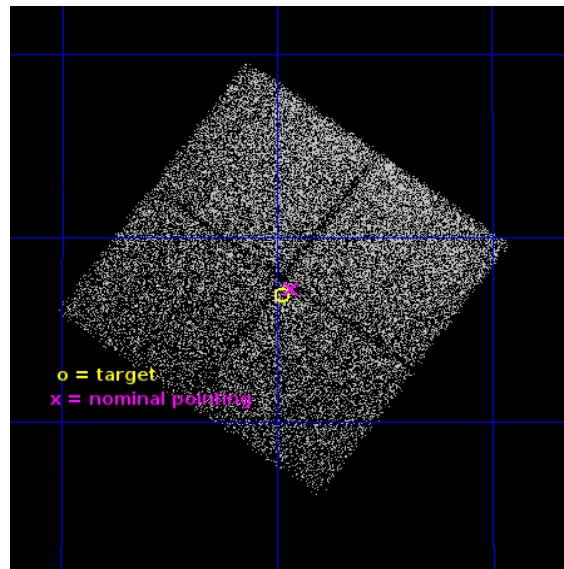
L2 Processing Date : Oct 6 2015

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

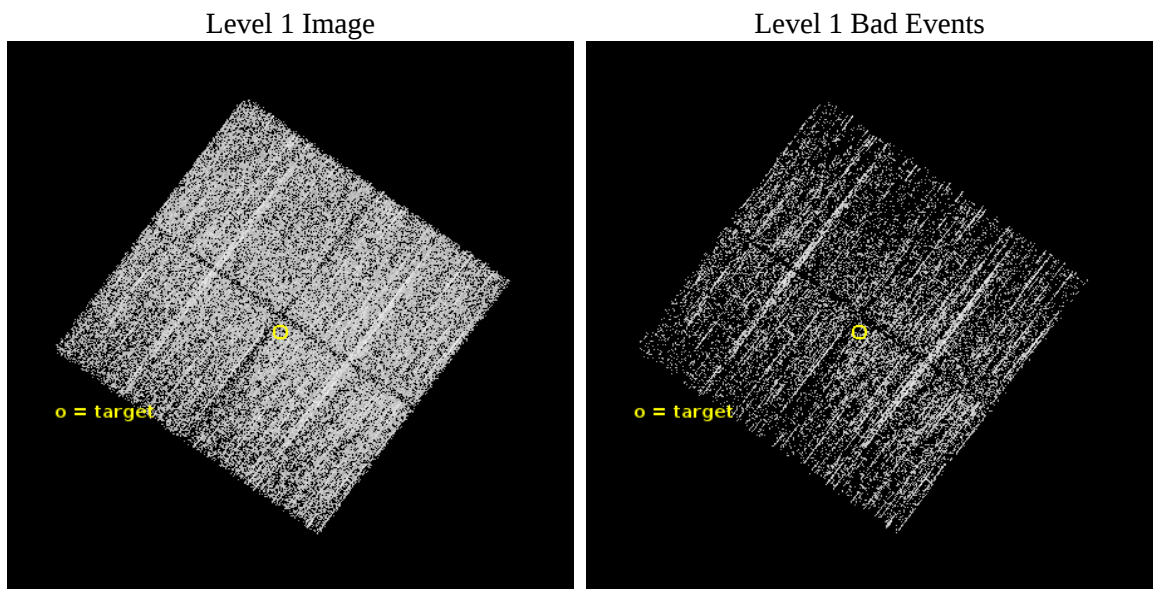
seq_num	801529	Sequence number
obs_id	17284	Observation id
title	Perseus: A New, Low-Redshift Anchor for Cluster Cosmology	Proposal
observer	Prof. Steven Allen	Principal investigator
object	Perseus cluster	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	50.2444	Observer's specified target RA [deg]
dec_targ	41.281511	Observer's specified target Dec [deg]
ra_nom	50.233451770771	Nominal RA [deg]
dec_nom	41.287344739825	Nominal Dec [deg]
roll_nom	126.01559629011	Nominal Roll [deg]
revision	1	Processing version of data
ontime	4792.6000369787	Sum of GTIs [s]
livetime	4729.9811892348	Livetime [s]
ontime0	4792.6000369787	Sum of GTIs [s]
ontime1	4792.6000369787	Sum of GTIs [s]
ontime2	4792.6000369787	Sum of GTIs [s]
ontime3	4792.6000369787	Sum of GTIs [s]
l2events	32714	Number of level 2 events



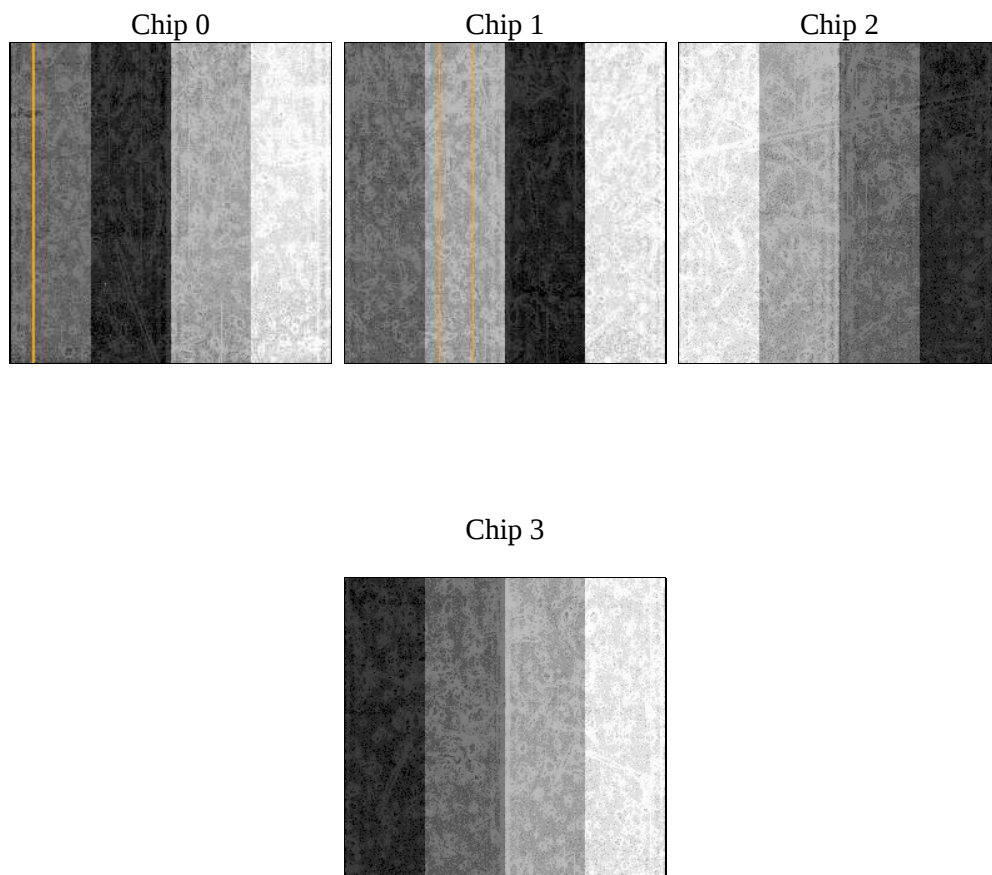
2 OBI

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	4792.6000369787	Sum of GTIs [s]
caldsver	4.6.10a	 	ontime0	4792.6000369787	Sum of GTIs [s]
date	2015-10-07T03:25:15	Date and time of file creation	ontime1	4792.6000369787	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	4792.6000369787	Sum of GTIs [s]
			ontime3	4792.6000369787	Sum of GTIs [s]
			l1events	119945	Number of level 1 events

2.1.4 Events

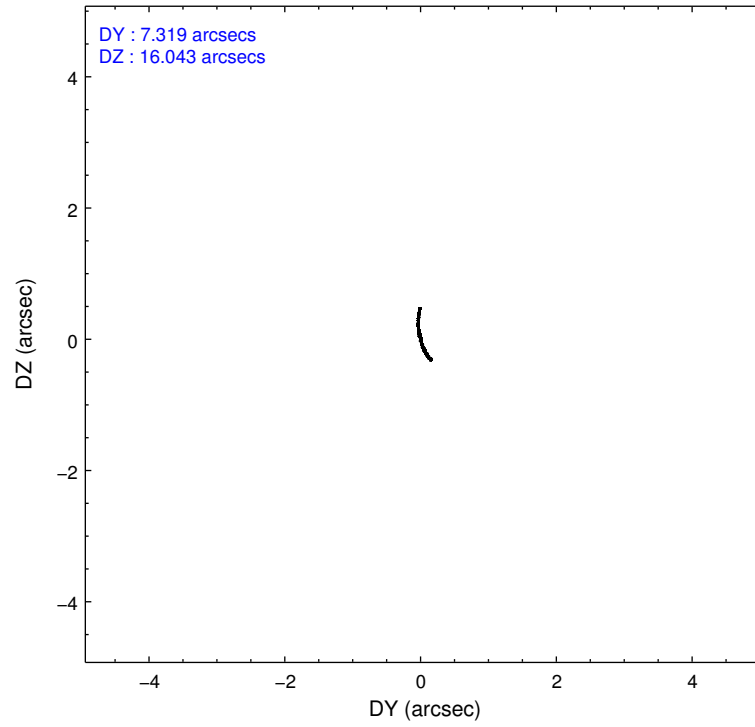
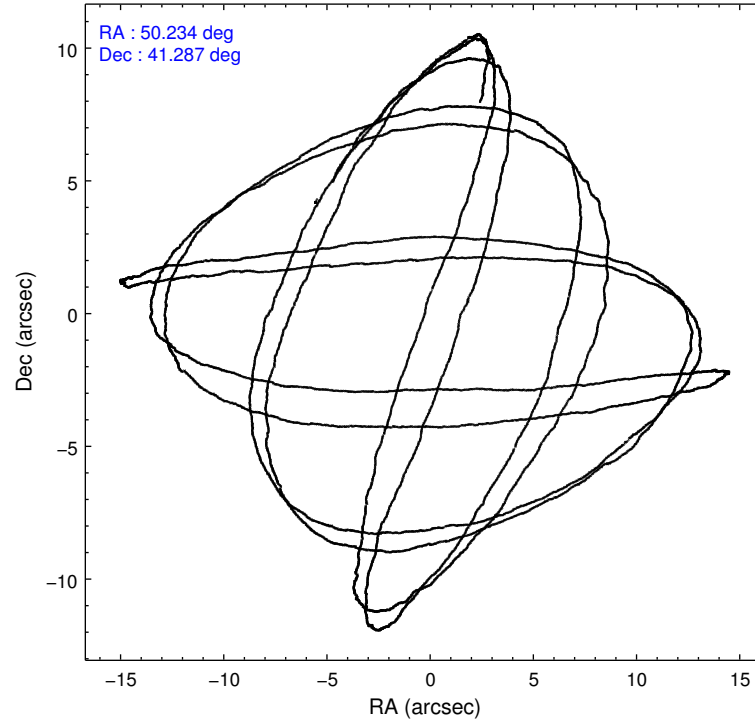
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	30248	25840	34247	29610
rejected events	18457	19261	22298	23688
rejected %	61%	74%	65%	80%

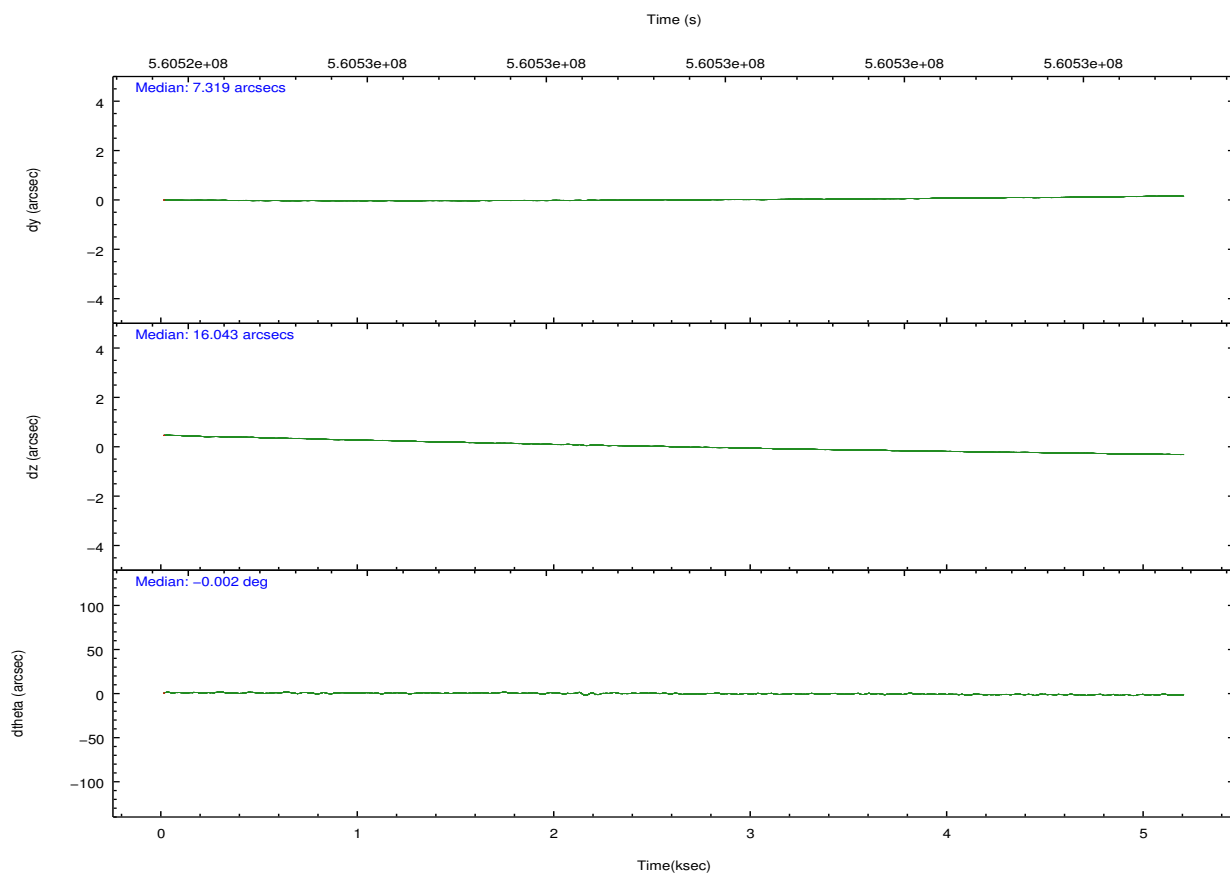
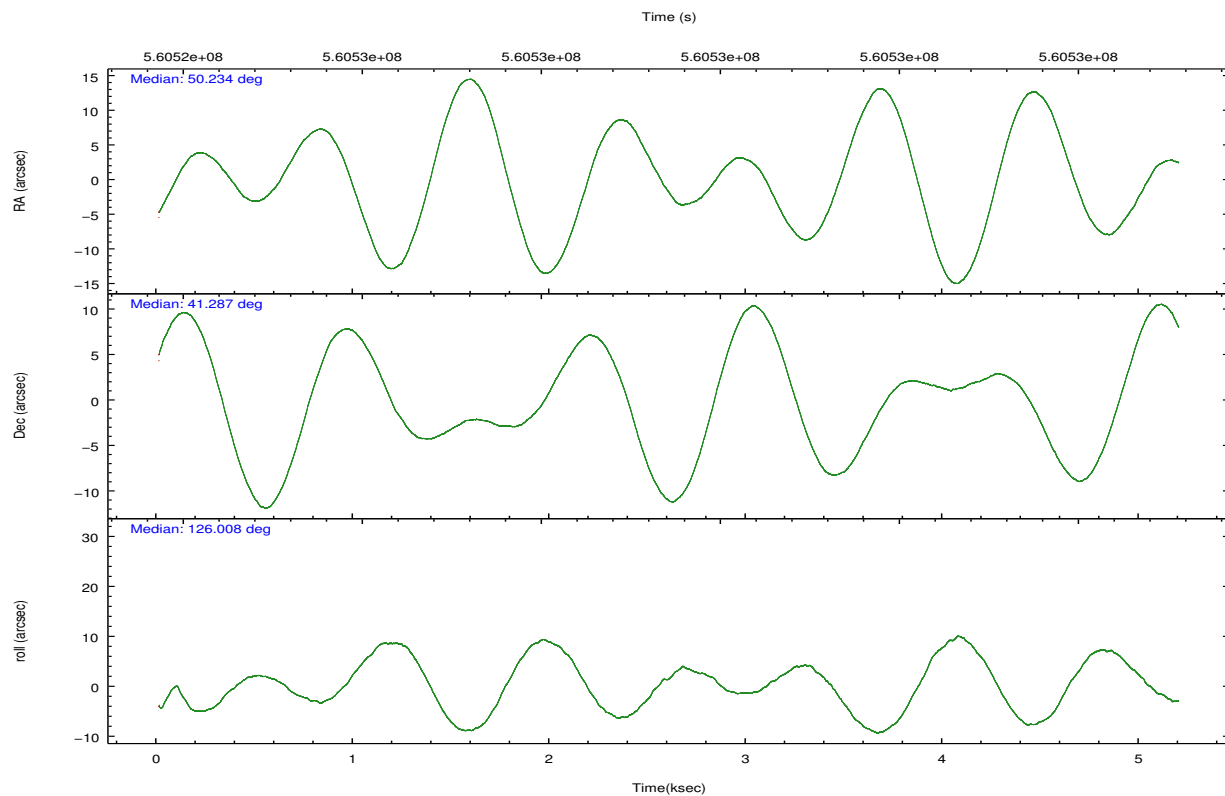
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	8002	3730	8190	3422
	26%	14%	23%	11%
grade 1 events	43	32	42	20
	0%	0%	0%	0%
grade 2 events	1747	1229	1655	994
	5%	4%	4%	3%
grade 3 events	617	453	606	388
	2%	1%	1%	1%
grade 4 events	596	421	644	398
	1%	1%	1%	1%
grade 5 events	1113	1179	1106	1373
	3%	4%	3%	4%
grade 6 events	835	750	862	727
	2%	2%	2%	2%
grade 7 events	17295	18046	21142	22288
	57%	69%	61%	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	50.267072	50.23345177077145	Subarray requested	NONE	NONE
[deg] Pointing Dec	41.276126	41.28734473982522	Alternating exposures requested	N	N
[deg] Pointing Roll	125.784712	126.015596290107	[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)	560525327.184000	560524950.96682			
Observation start date	2015-10-06T13:27:39	2015-10-06T13:22:30			
[s] Observation end time (MET)	560530327.184000	560530461.36713			
Observation end date	2015-10-06T14:50:59	2015-10-06T14:54:21			
Read mode	TIMED	TIMED			

2.3 Aspect



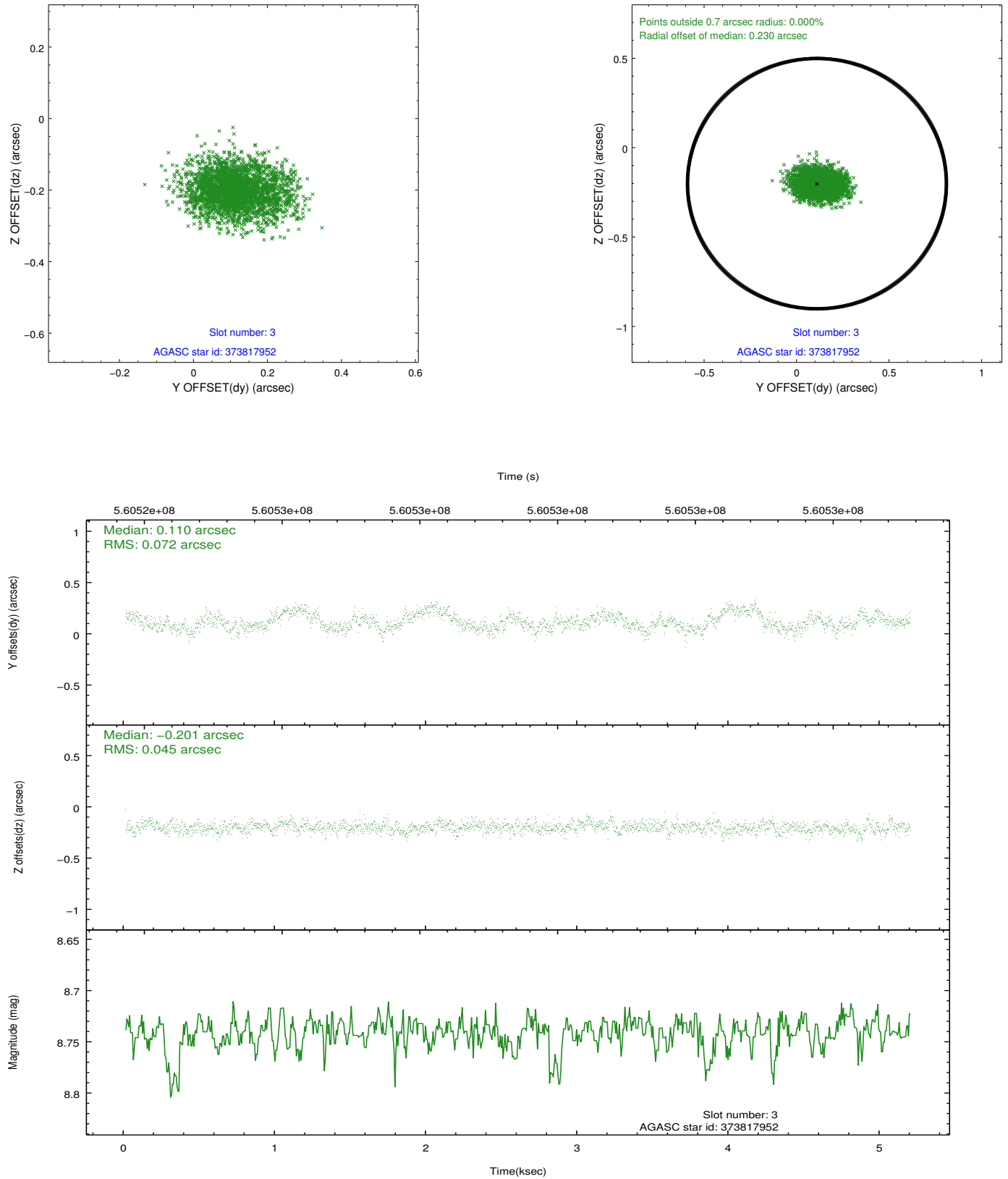


Slot Statistics

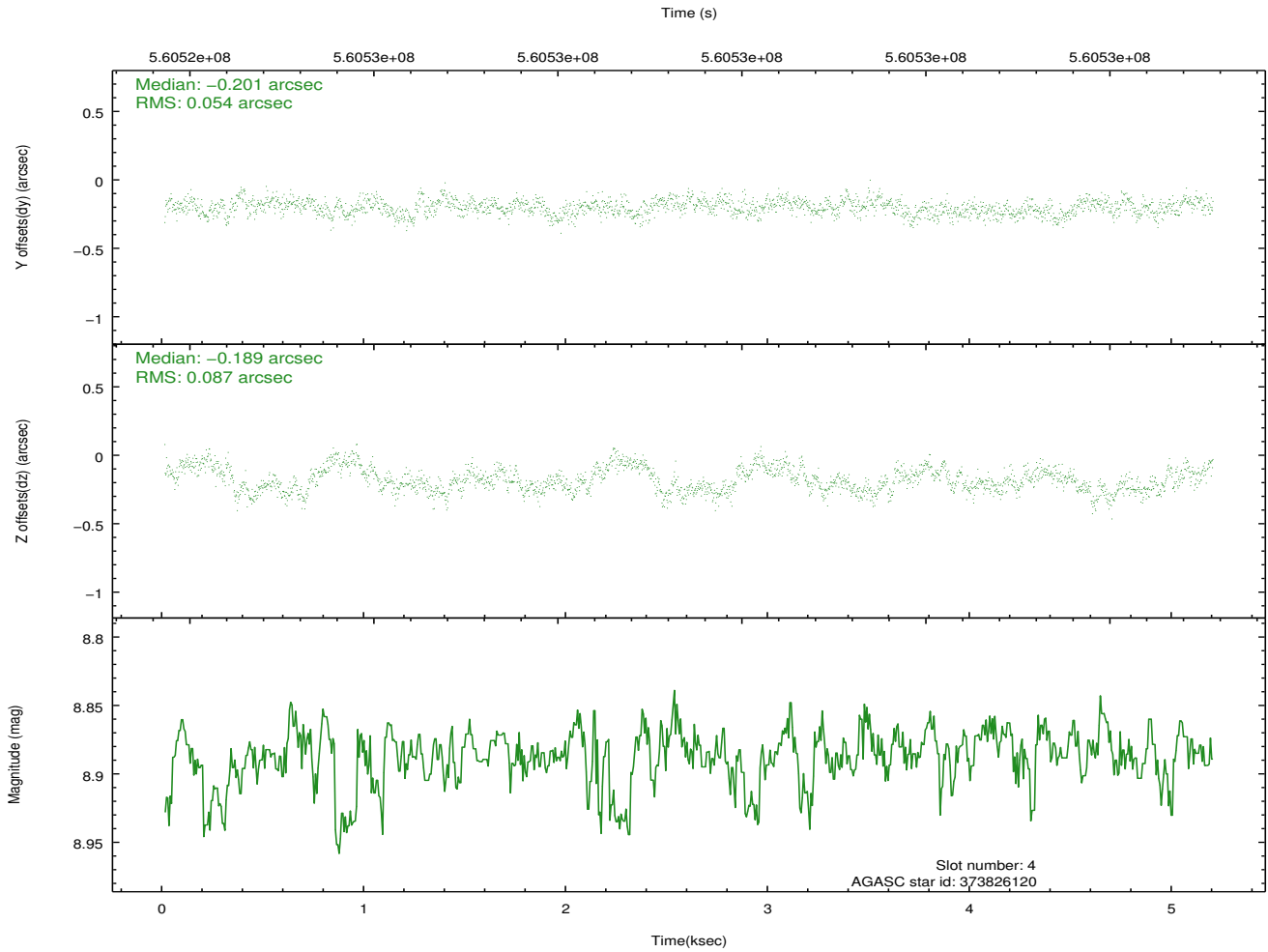
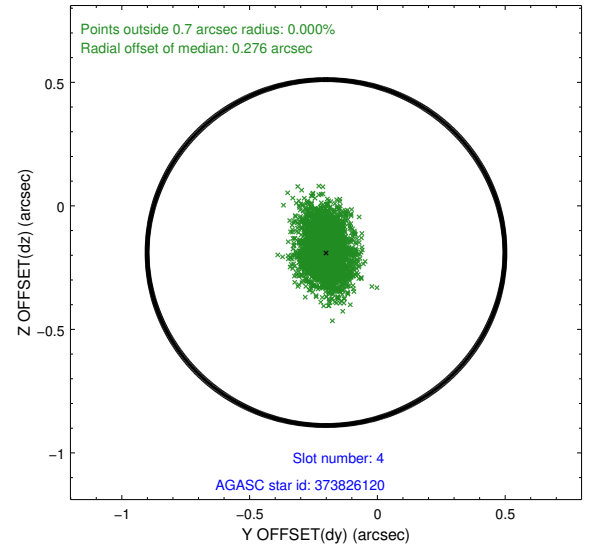
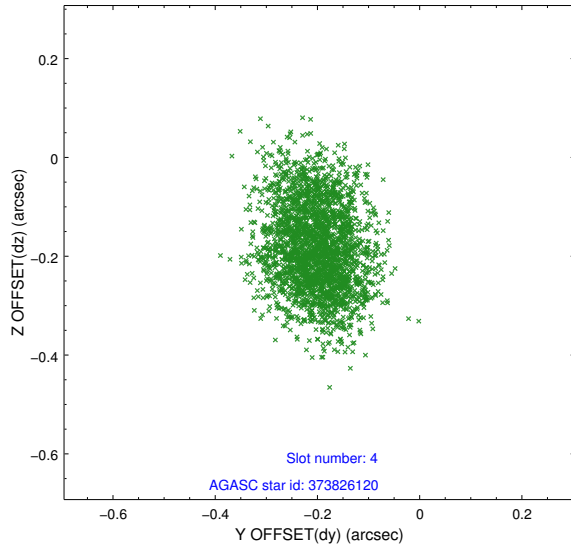
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.26	1266	0.136	-0.138	0.010	0.021	0.000000	0.000000	932.46	-839.84
1	FID		ACIS-I-5	7.24	1267	-0.304	0.096	0.009	0.016	0.000000	0.000000	-1815.44	1057.29
2	FID		ACIS-I-6	7.23	1267	0.078	0.113	0.011	0.017	0.000000	0.000000	396.68	1703.14
3	GUIDE	used	373817952	8.74	2531	0.110	-0.201	0.090	0.151	49.913424	40.978510	-305.83	1405.17
4	GUIDE	used	373826120	8.89	2531	-0.201	-0.189	0.110	0.178	49.738165	41.186341	578.76	1349.65
5	GUIDE	used	376057824	8.34	2533	0.032	0.135	0.080	0.132	50.665569	41.926280	1276.47	-2234.75
6	GUIDE	used	376070040	8.40	2532	-0.033	-0.018	0.092	0.147	50.072031	41.897206	2120.20	-884.10
7	GUIDE	used	376070440	6.96	2530	0.084	0.265	0.076	0.123	51.289107	41.257301	-1657.75	-2213.61

2.4 Star Slots

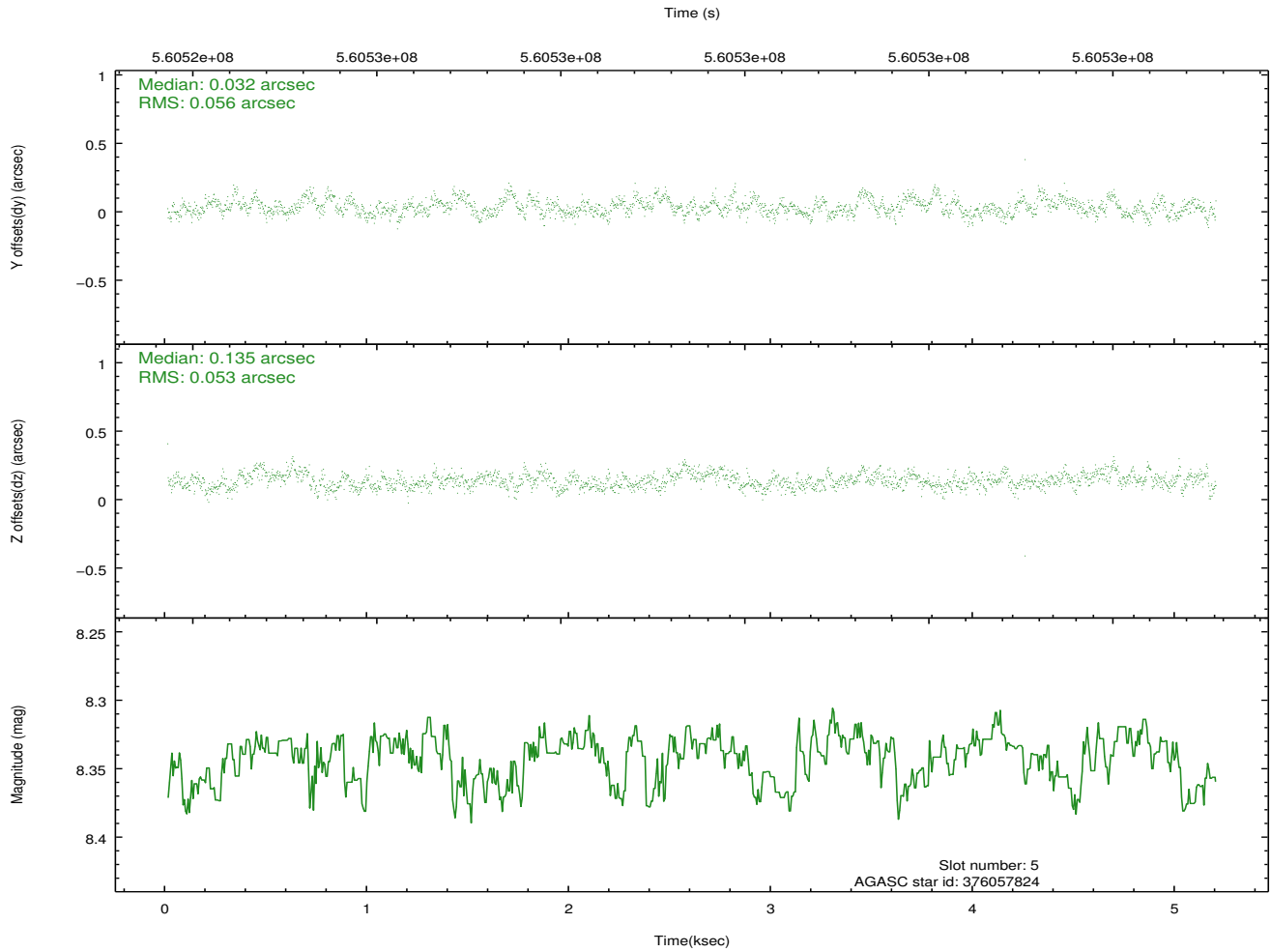
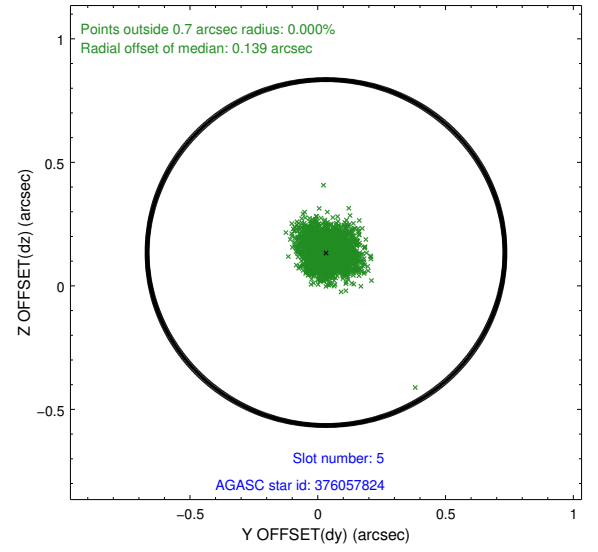
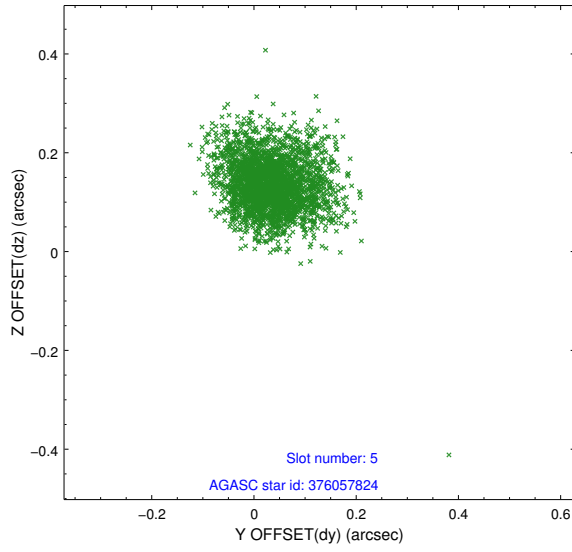
2.4.1 Slot 3



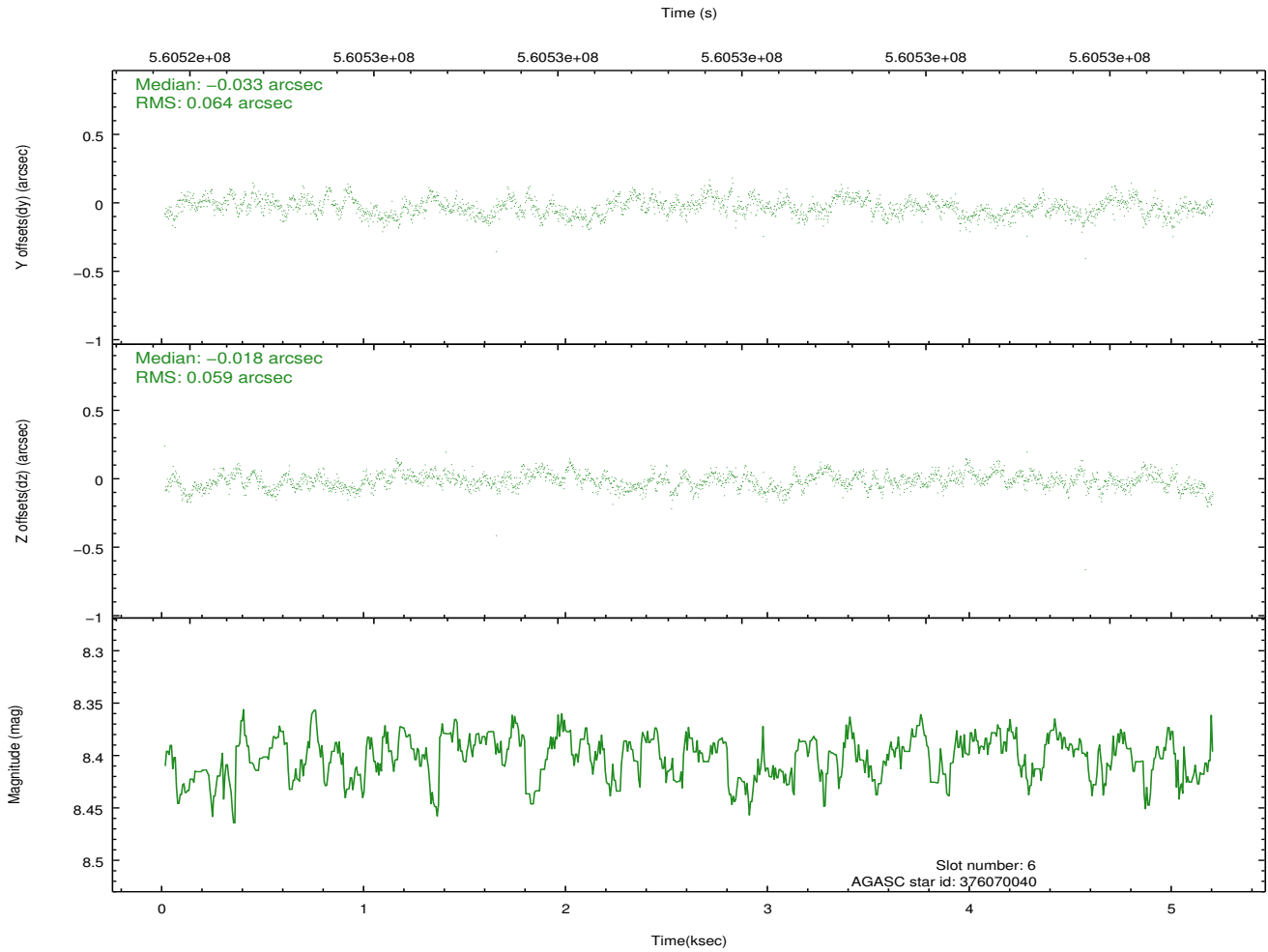
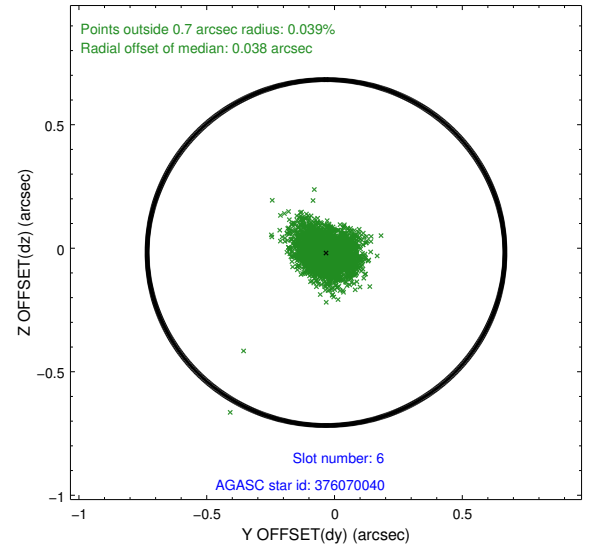
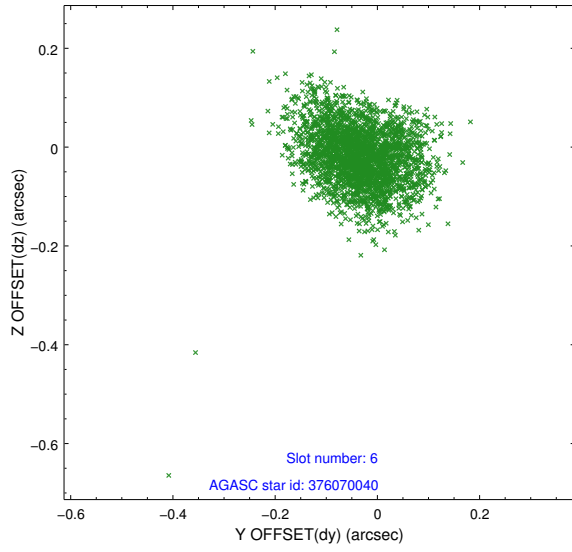
2.4.2 Slot 4



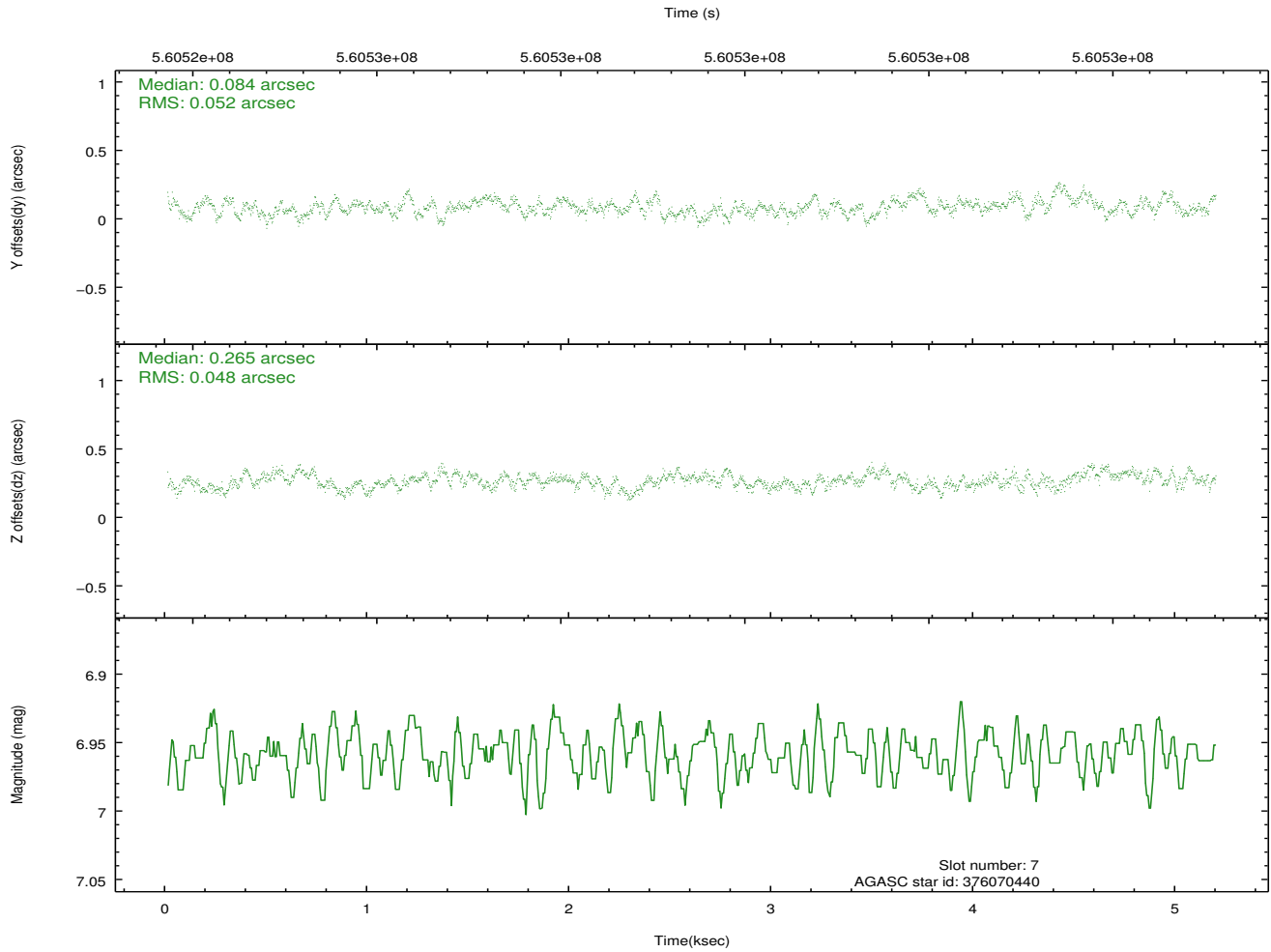
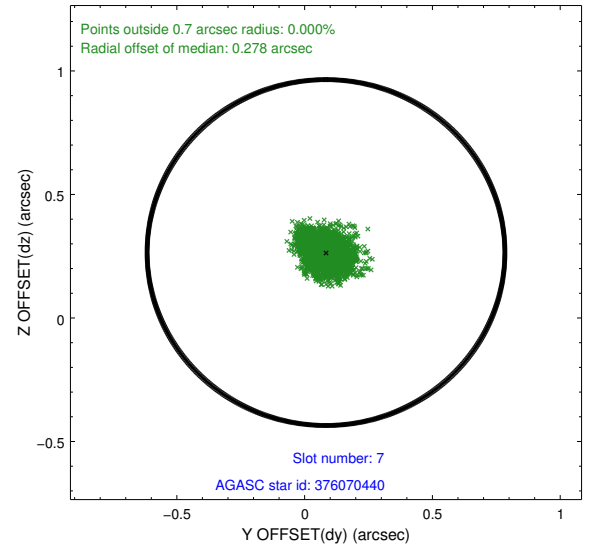
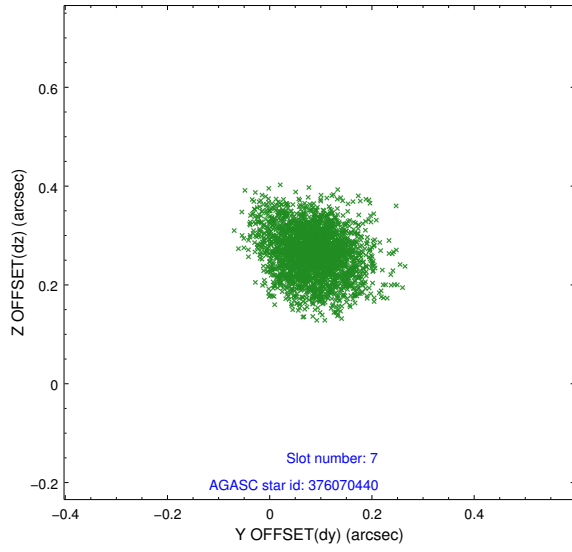
2.4.3 Slot 5



2.4.4 Slot 6

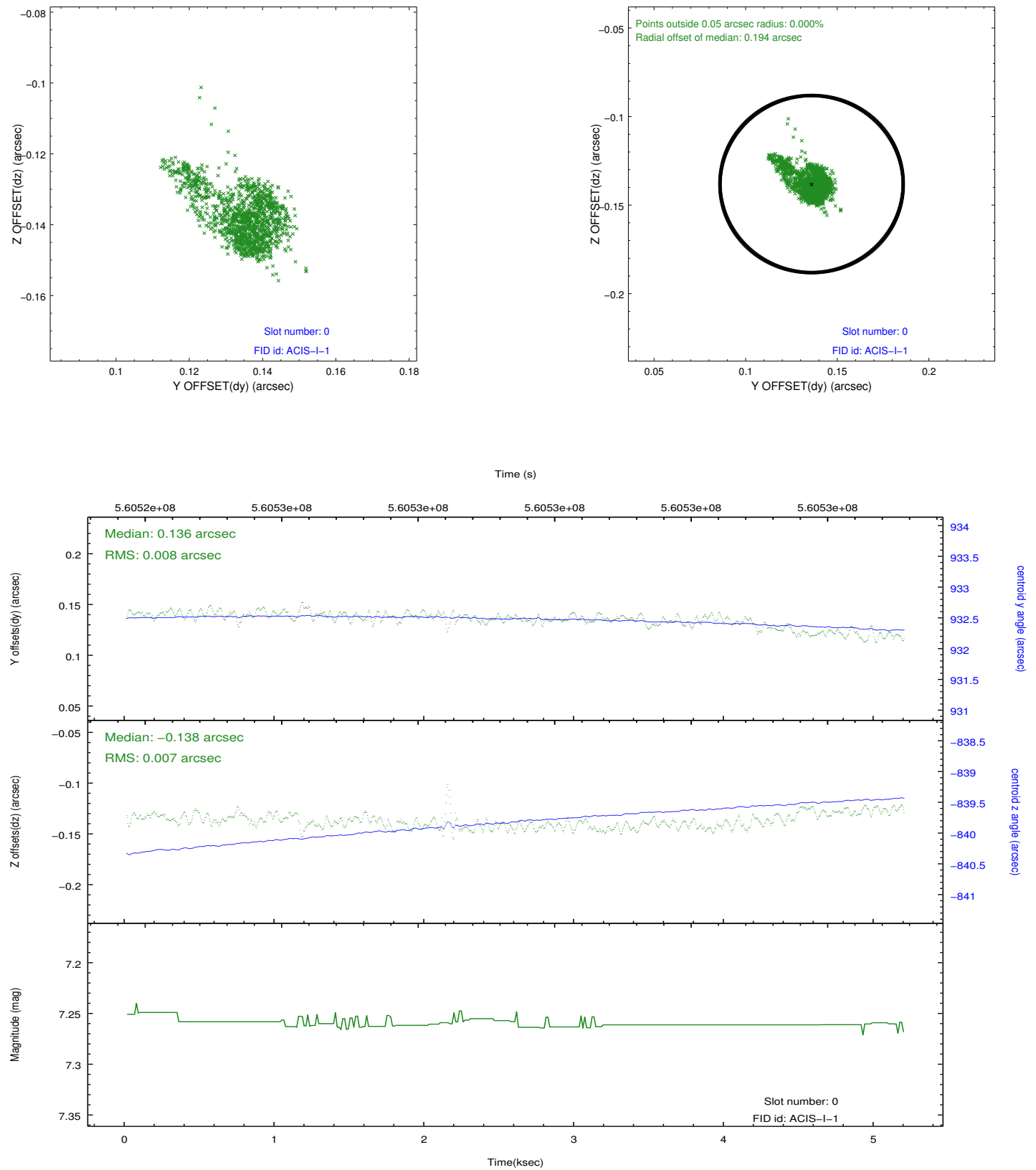


2.4.5 Slot 7

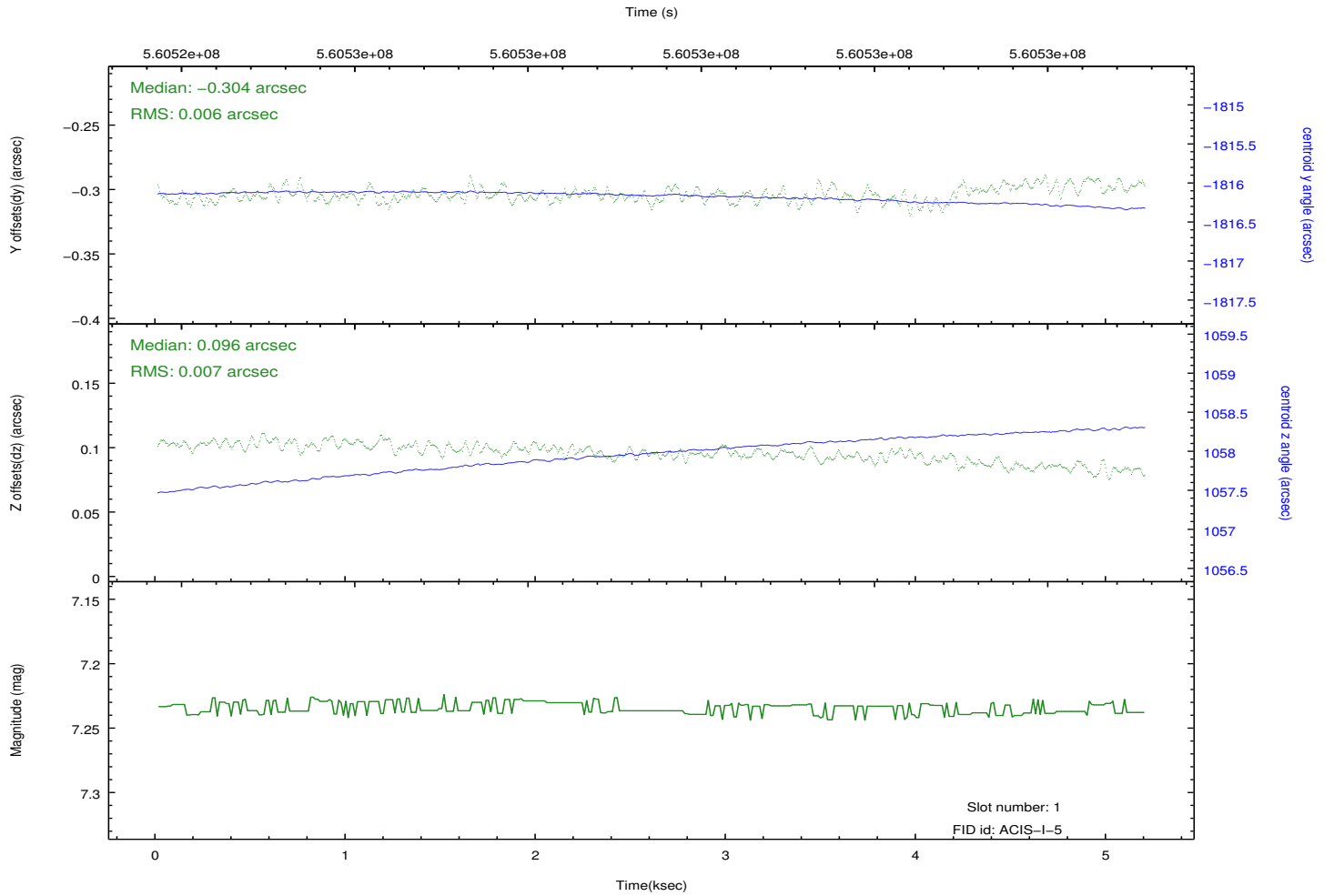
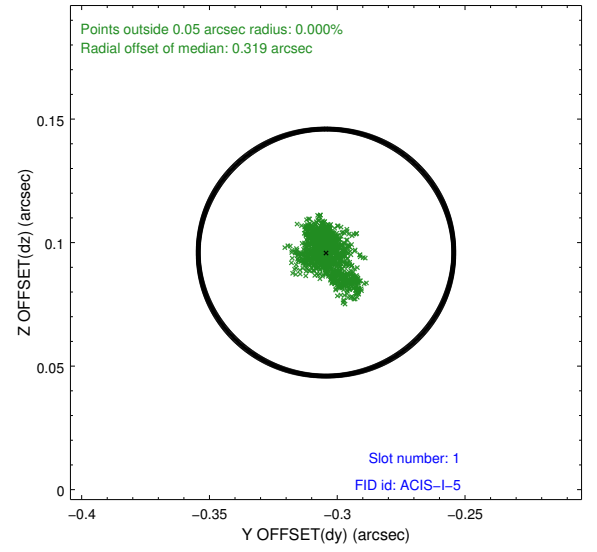
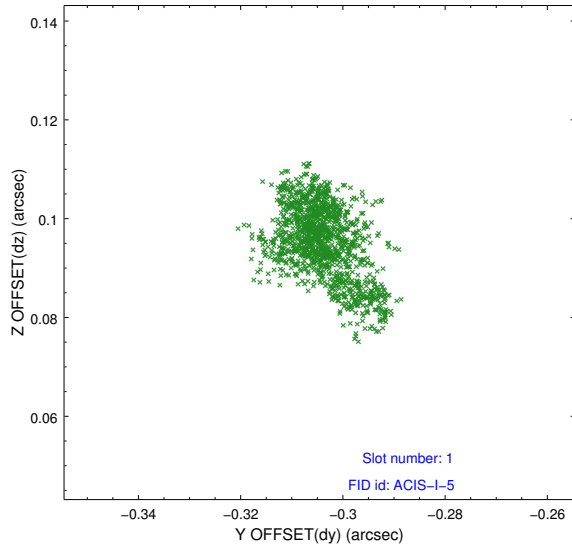


2.5 FID Slots

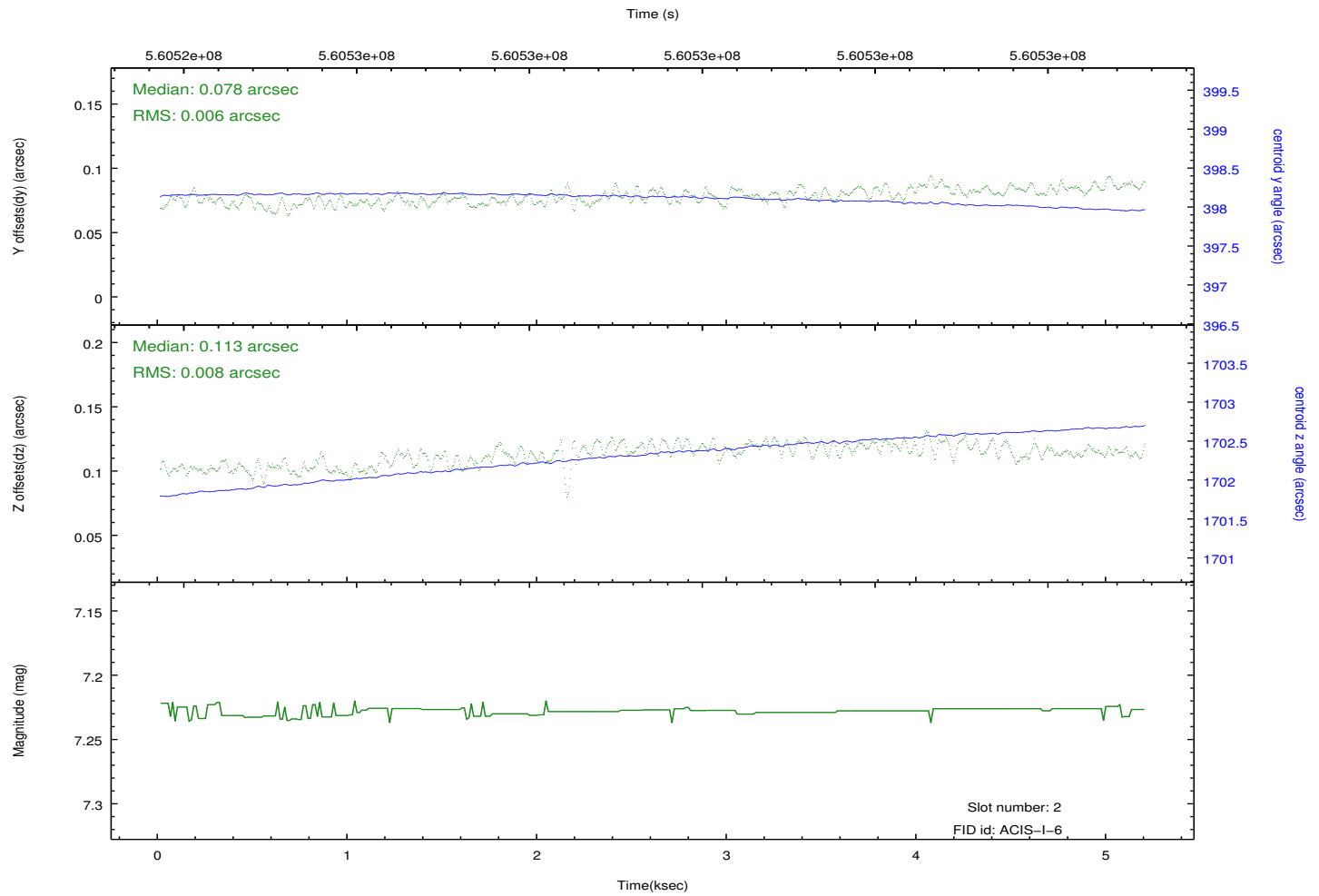
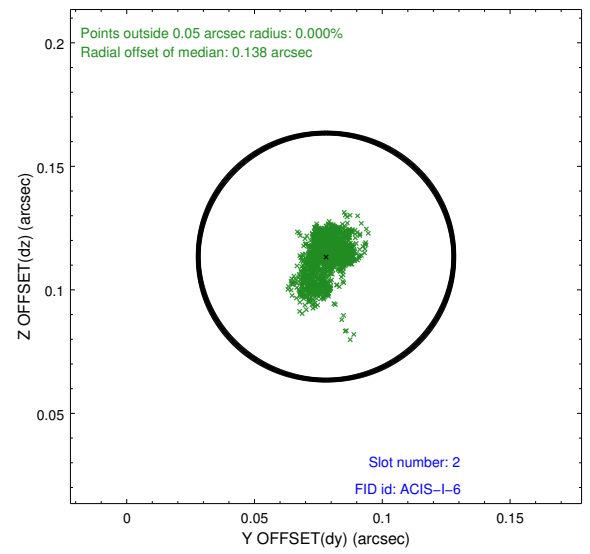
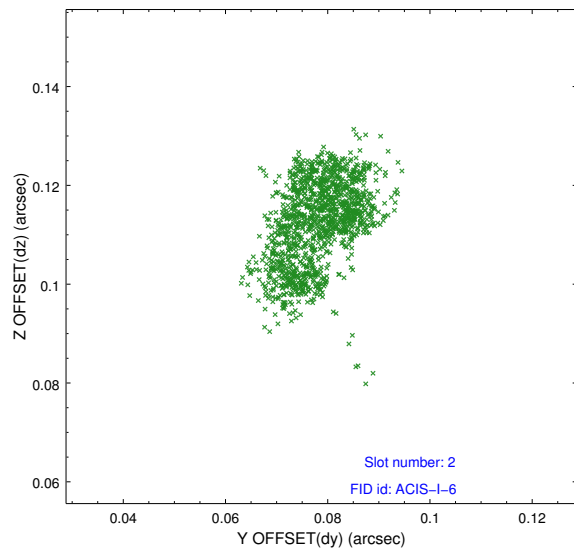
2.5.1 Slot 0



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	4.7926000369787

A.2 Comments