

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19914 - L2 Version 1
Chandra X-Ray Center

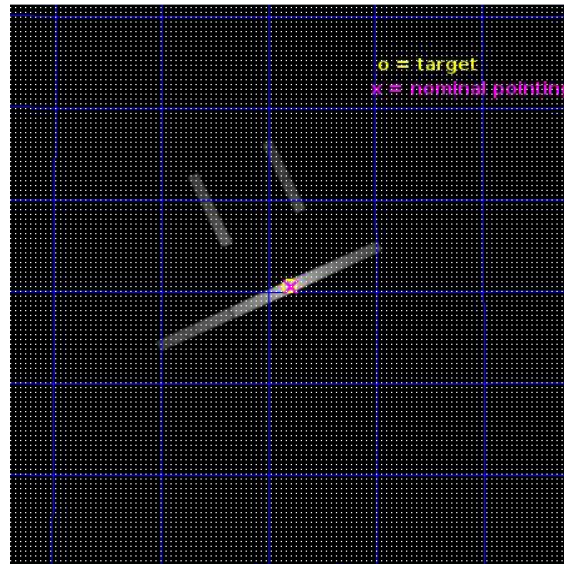
L2 Processing Date : Nov 4 2016

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1 Front

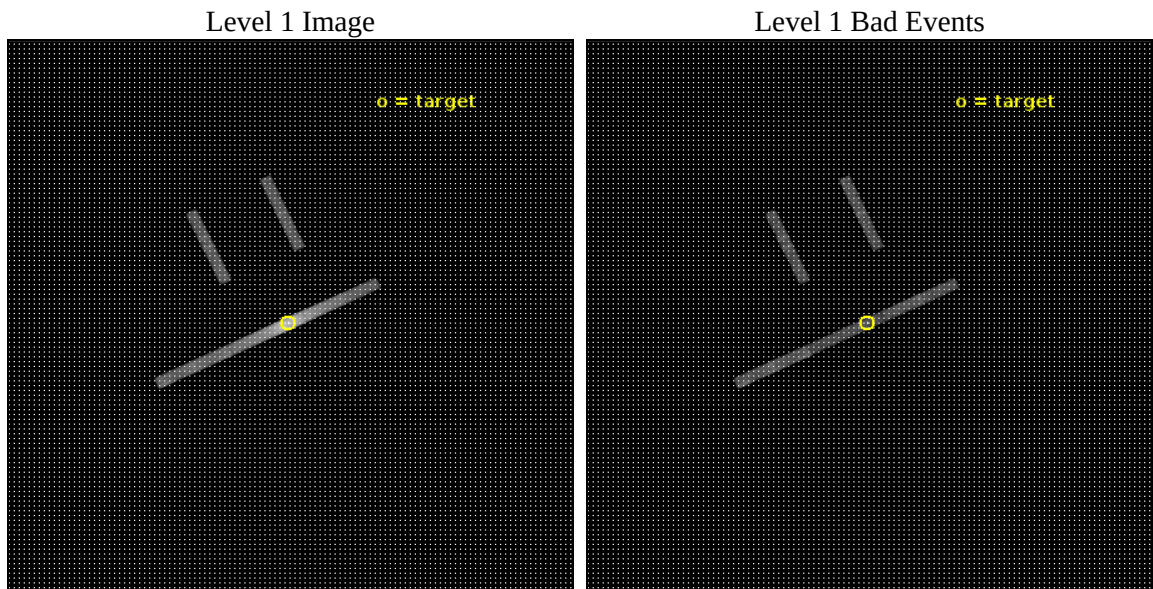
seq_num	801661	Sequence number
obs_id	19914	Observation id
title	Perseus and NGC 1275: Inner Bubbles and Inner Disks	Proposal title
observer	Jon Miller	Principal investigator
object	Perseus Cluster	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	49.950833	Observer's specified target RA [deg]
dec_targ	41.511694	Observer's specified target Dec [deg]
ra_nom	49.946123954879	Nominal RA [deg]
dec_nom	41.509487875574	Nominal Dec [deg]
roll_nom	154.65974877634	Nominal Roll [deg]
revision	1	Processing version of data
ontime	21369.601455688	Sum of GTIs [s]
livetime	20186.118183879	Livetime [s]
ontime2	21369.584244728	Sum of GTIs [s]
ontime3	21369.601455688	Sum of GTIs [s]
ontime6	21369.601455688	Sum of GTIs [s]
ontime7	21369.601455688	Sum of GTIs [s]
ontime8	21369.601455688	Sum of GTIs [s]
l2events	363888	Number of level 2 events



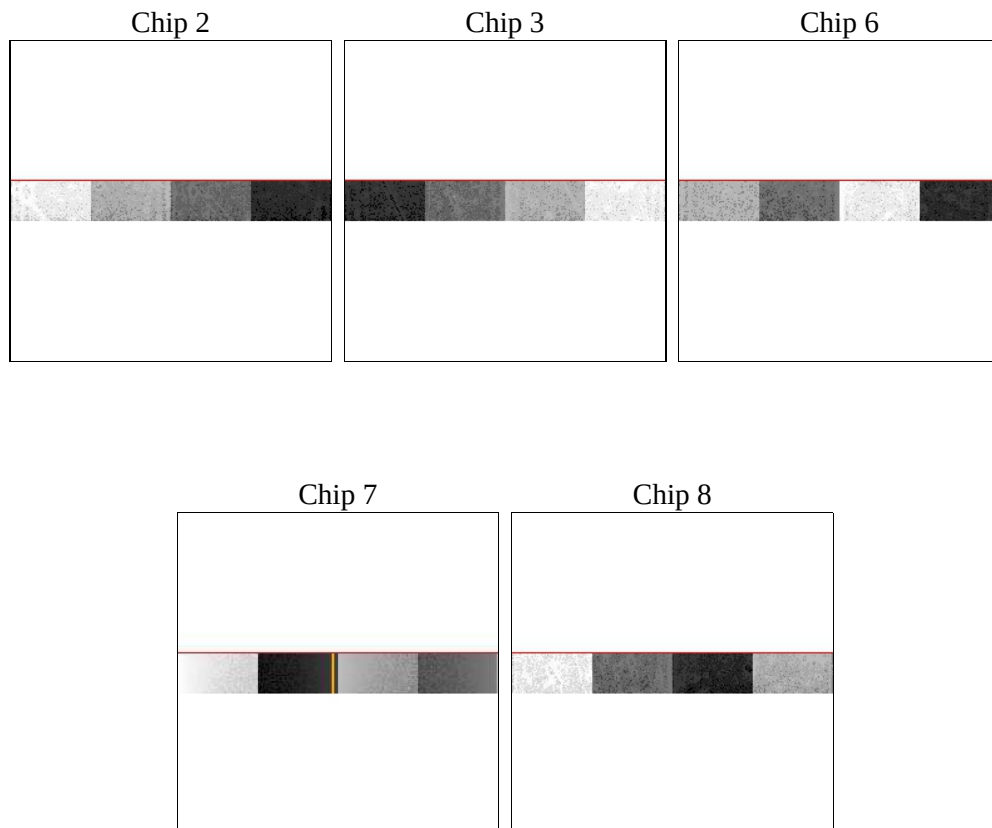
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	21300.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	21369.601455688	Sum of GTIs [s]
caldbver	4.7.2	 	ontime2	21369.584244728	Sum of GTIs [s]
date	2016-11-04T16:24:01	Date and time of file creation	ontime3	21369.601455688	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	21369.601455688	Sum of GTIs [s]
			ontime7	21369.601455688	Sum of GTIs [s]
			ontime8	21369.601455688	Sum of GTIs [s]
			l1events	492541	Number of level 1 events

2.1.4 Events

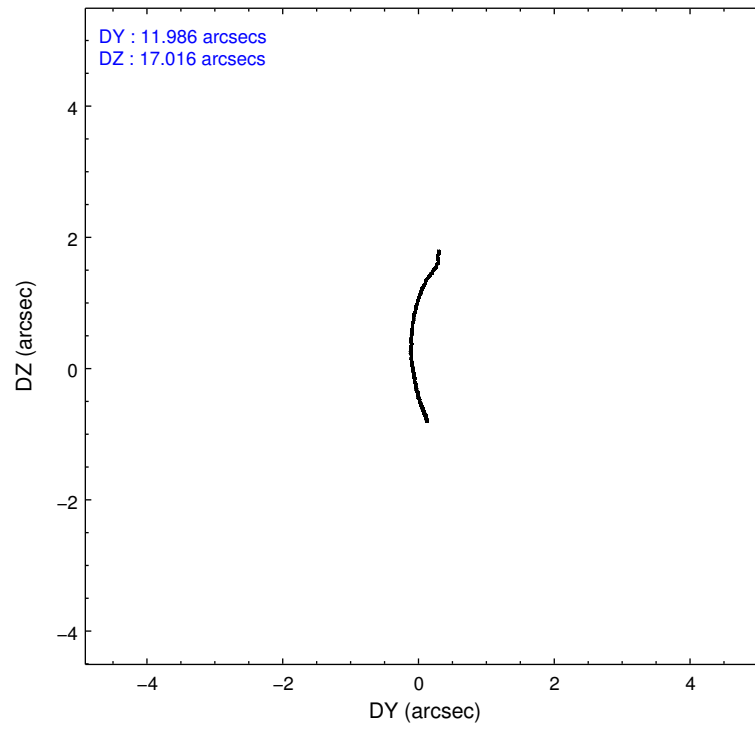
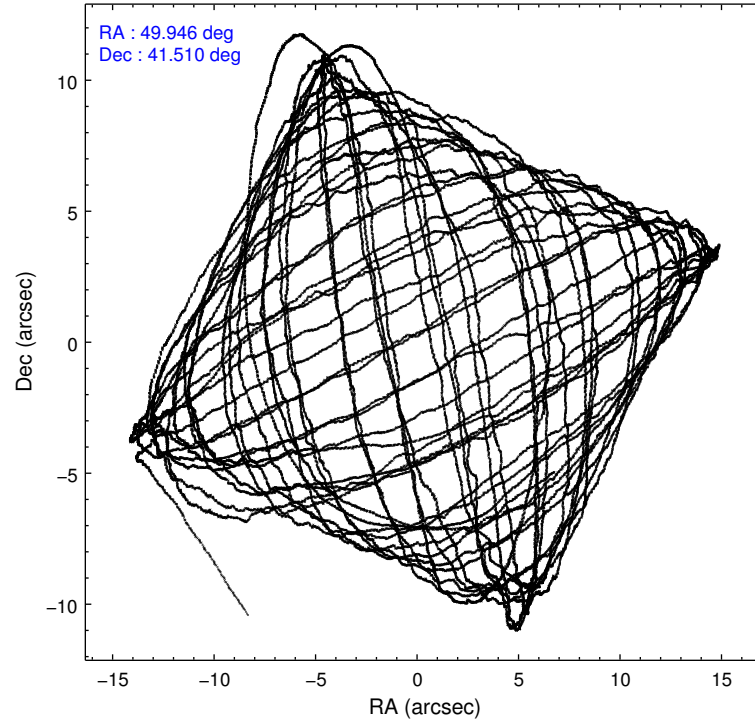
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	25467	28165	70310	323473	45126
rejected events	18920	19017	21037	30288	26563
rejected %	74%	67%	29%	9%	58%

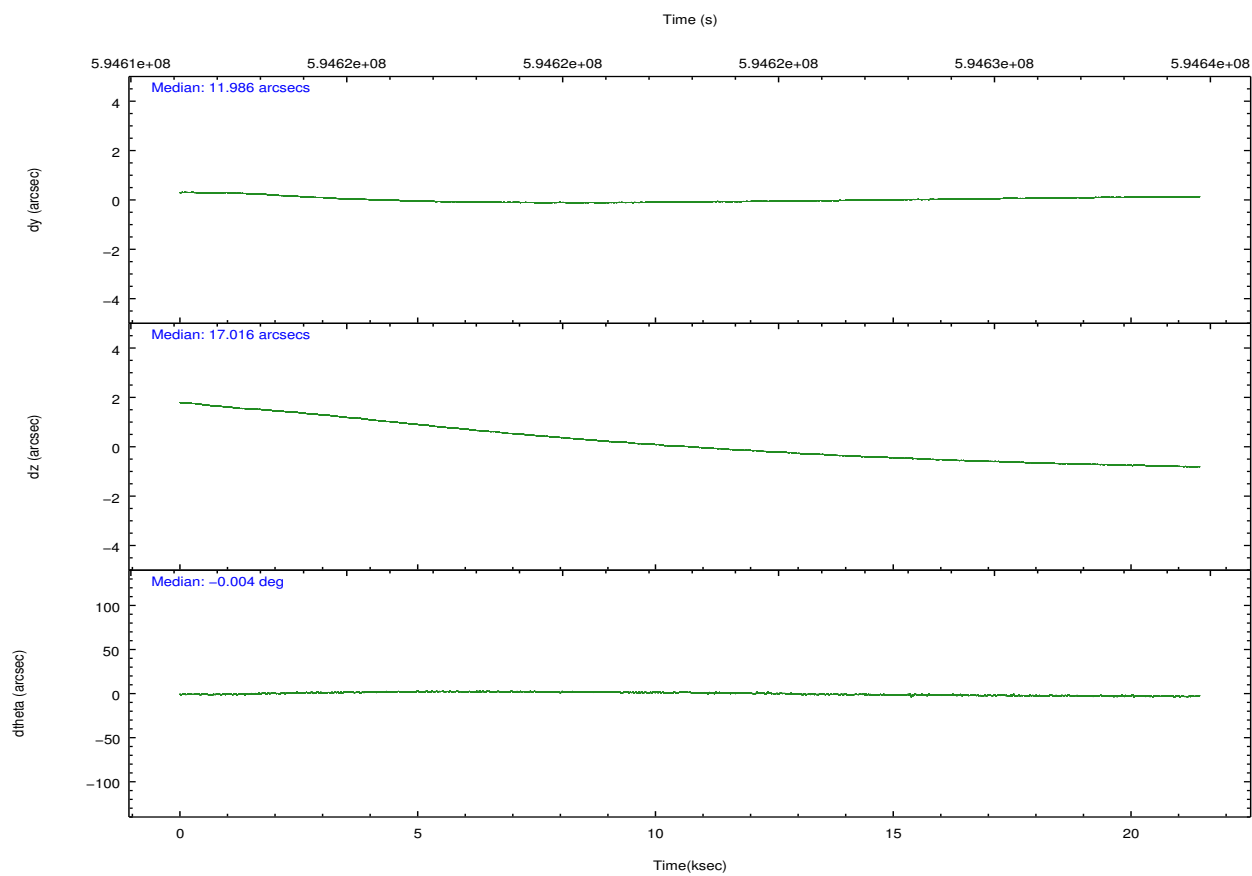
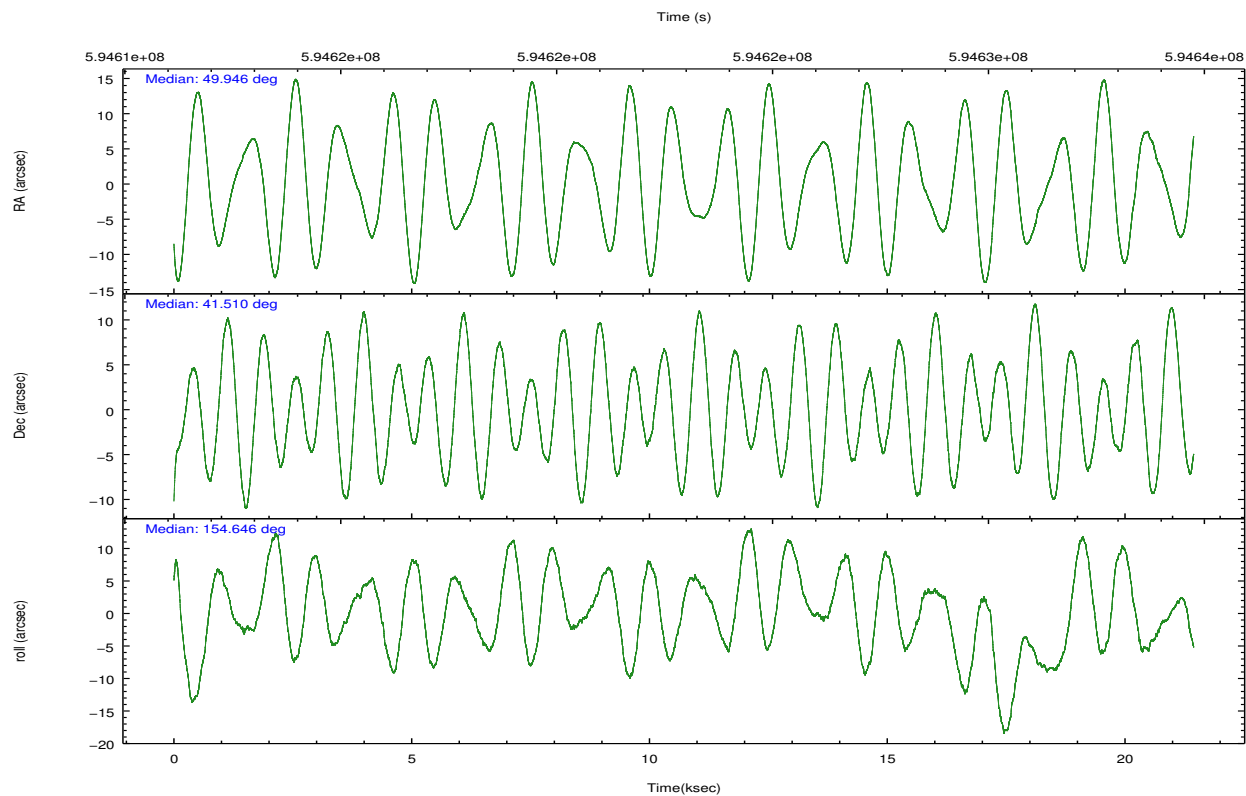
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	3933	6081	37836	74926	10575
	15%	21%	53%	23%	23%
grade 1 events	12	12	75	835	29
	0%	0%	0%	0%	0%
grade 2 events	943	1186	5603	75782	2873
	3%	4%	7%	23%	6%
grade 3 events	531	635	1951	33972	1223
	2%	2%	2%	10%	2%
grade 4 events	574	617	1935	33058	1118
	2%	2%	2%	10%	2%
grade 5 events	671	894	1065	8033	1408
	2%	3%	1%	2%	3%
grade 6 events	568	630	1951	75479	2775
	2%	2%	2%	23%	6%
grade 7 events	18235	18110	19894	21388	25125
	71%	64%	28%	6%	55%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	49.982650	49.94612395487897	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	41.512082	41.50948787557413	Subarray start row	449	449
[deg] Pointing Roll	154.478917	154.659748776336	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.7
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	594612373.184000	594611097.73675			
Observation start date	2016-11-04T02:05:05	2016-11-04T01:44:57			
[s] Observation end time (MET)	594633673.184000	594634402.6506			
Observation end date	2016-11-04T08:00:05	2016-11-04T08:13:22			
Read mode	TIMED	TIMED			

2.3 Aspect



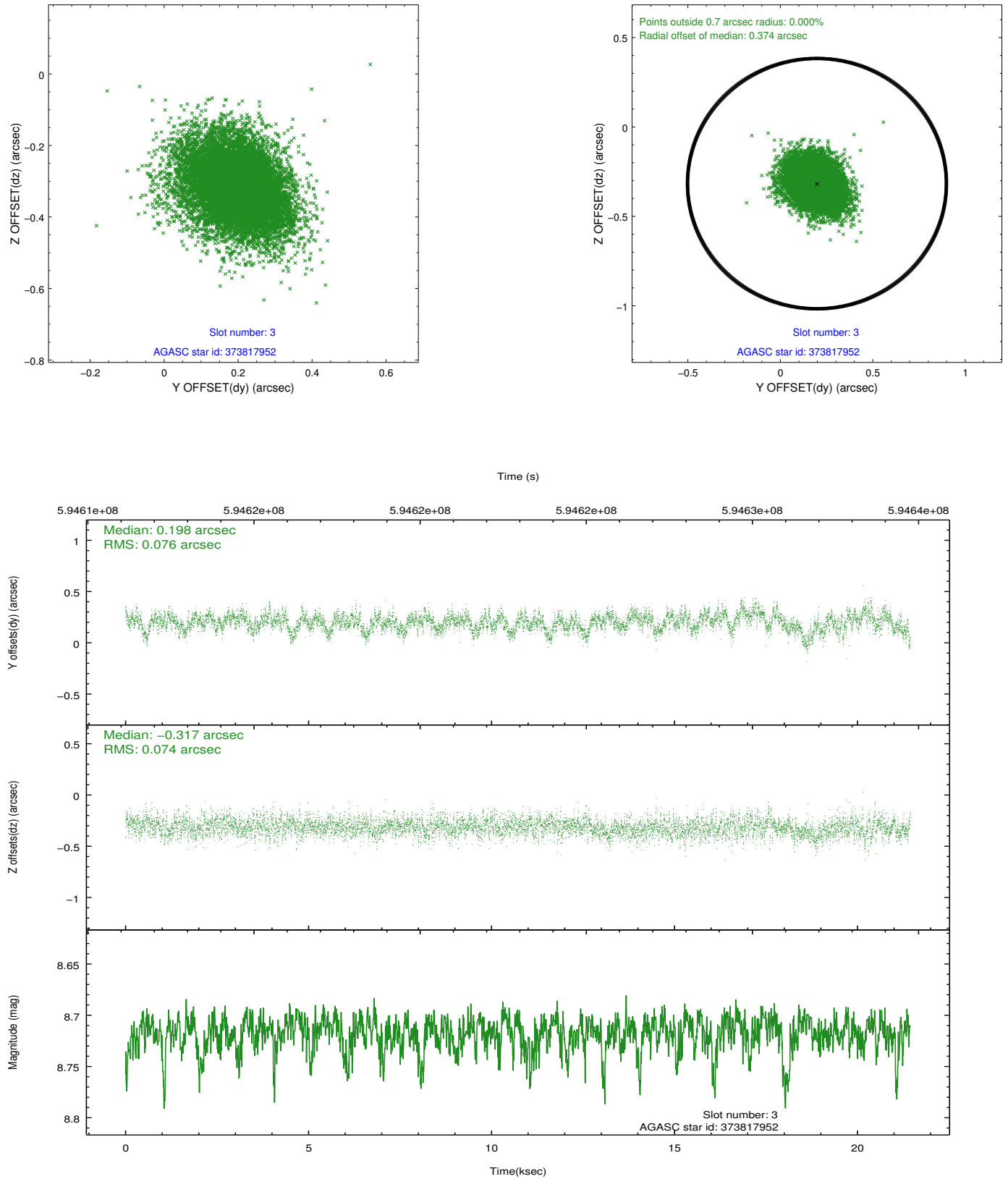


Slot Statistics

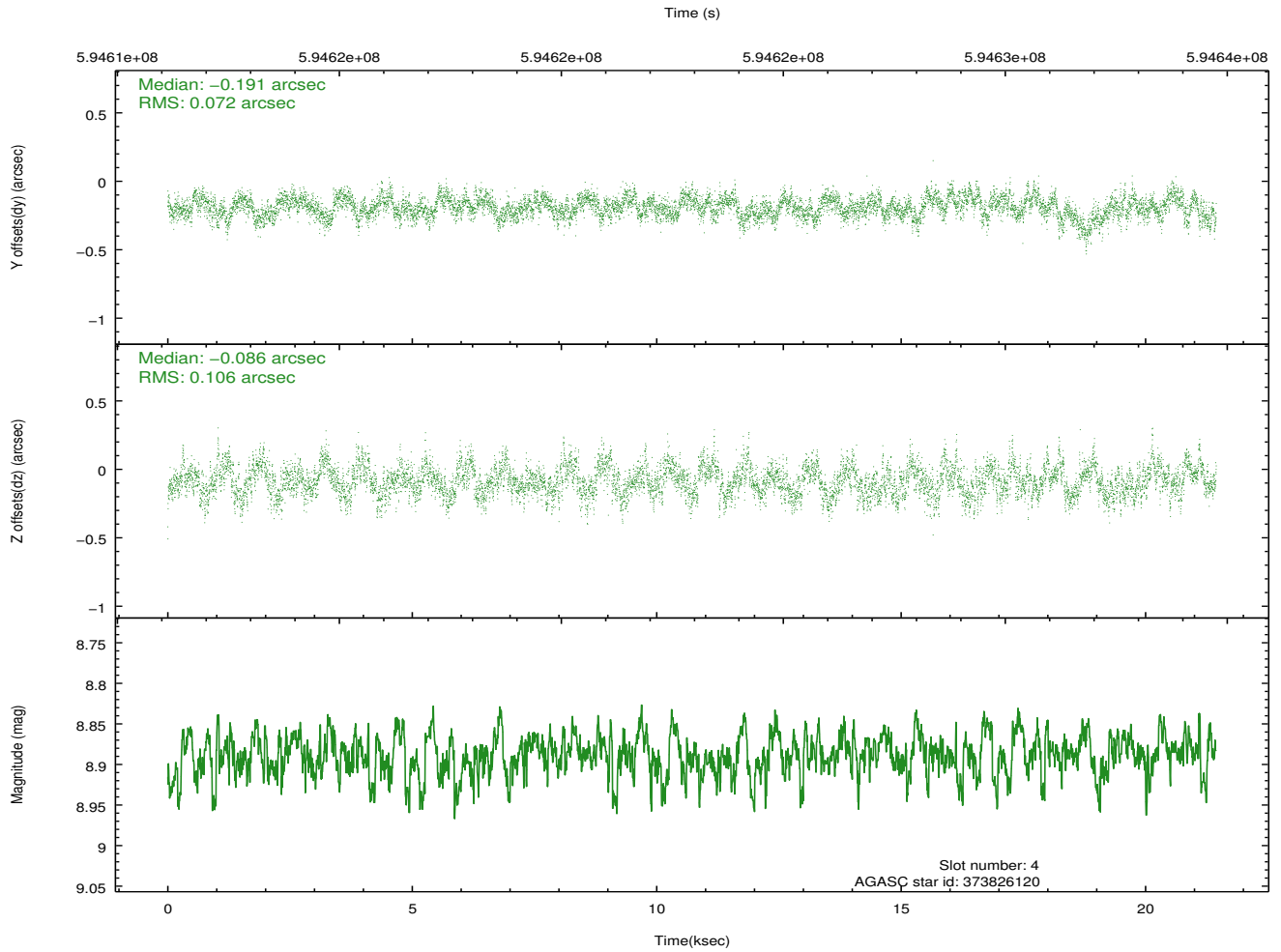
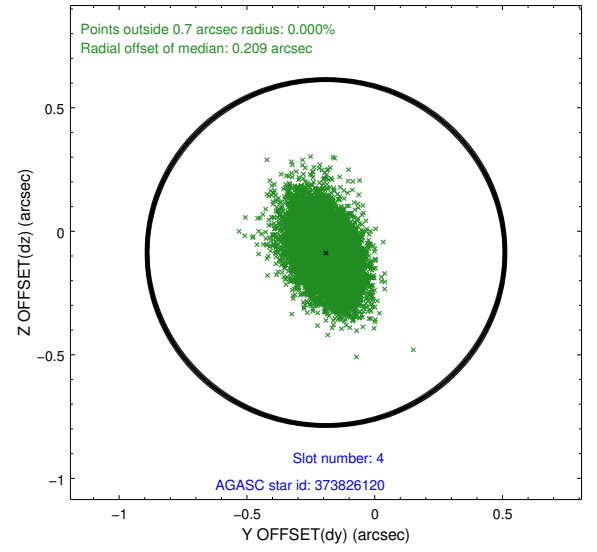
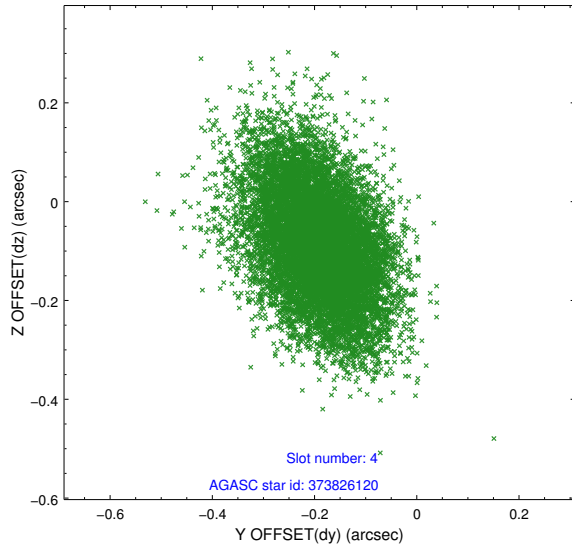
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.93	5231	-0.112	-0.049	0.026	0.033	0.000000	0.000000	-765.00	-1738.69
1	FID		ACIS-S-4	7.04	5231	0.317	0.067	0.009	0.017	0.000000	0.000000	2148.62	169.75
2	FID		ACIS-S-5	7.05	5231	-0.237	-0.007	0.023	0.030	0.000000	0.000000	-1817.76	163.51
3	GUIDE	used	373817952	8.72	10456	0.198	-0.317	0.110	0.189	49.913424	40.978510	-658.00	1814.27
4	GUIDE	used	373826120	8.89	10453	-0.191	-0.086	0.134	0.226	49.738165	41.186341	92.57	1343.07
5	GUIDE	used	374352808	8.75	10452	-0.020	0.051	0.105	0.179	49.969955	42.208621	1111.47	-2247.58
6	GUIDE	used	374357808	8.65	10457	-0.170	0.084	0.153	0.247	49.921429	42.176083	1177.65	-2086.55
7	GUIDE	used	376057824	8.32	10457	0.189	0.264	0.103	0.178	50.665569	41.926280	-1004.80	-2139.82

2.4 Star Slots

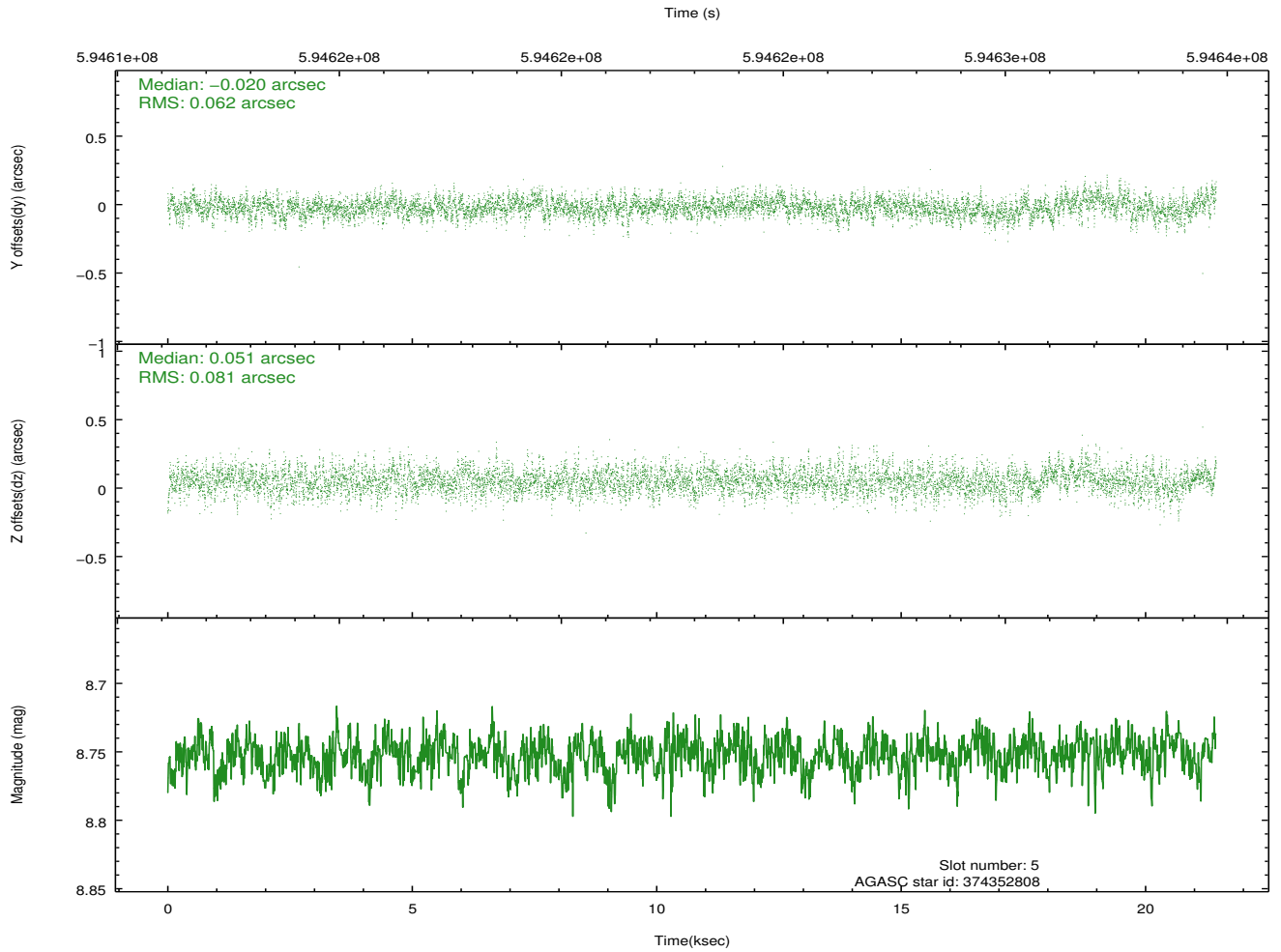
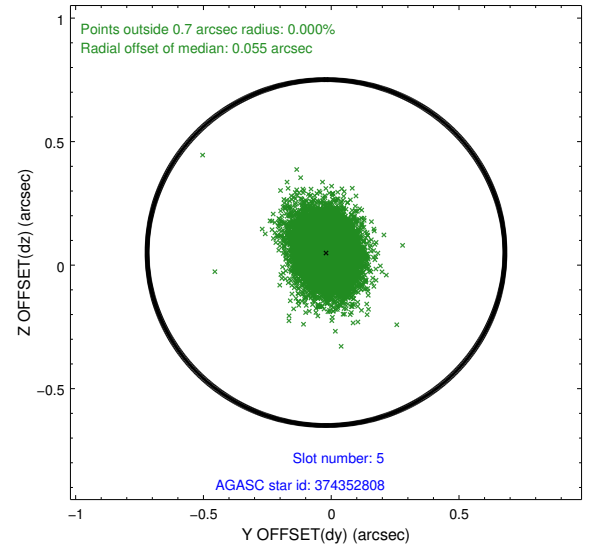
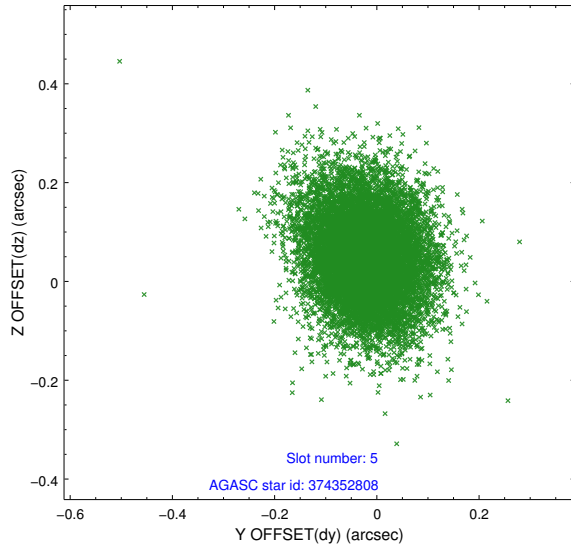
2.4.1 Slot 3



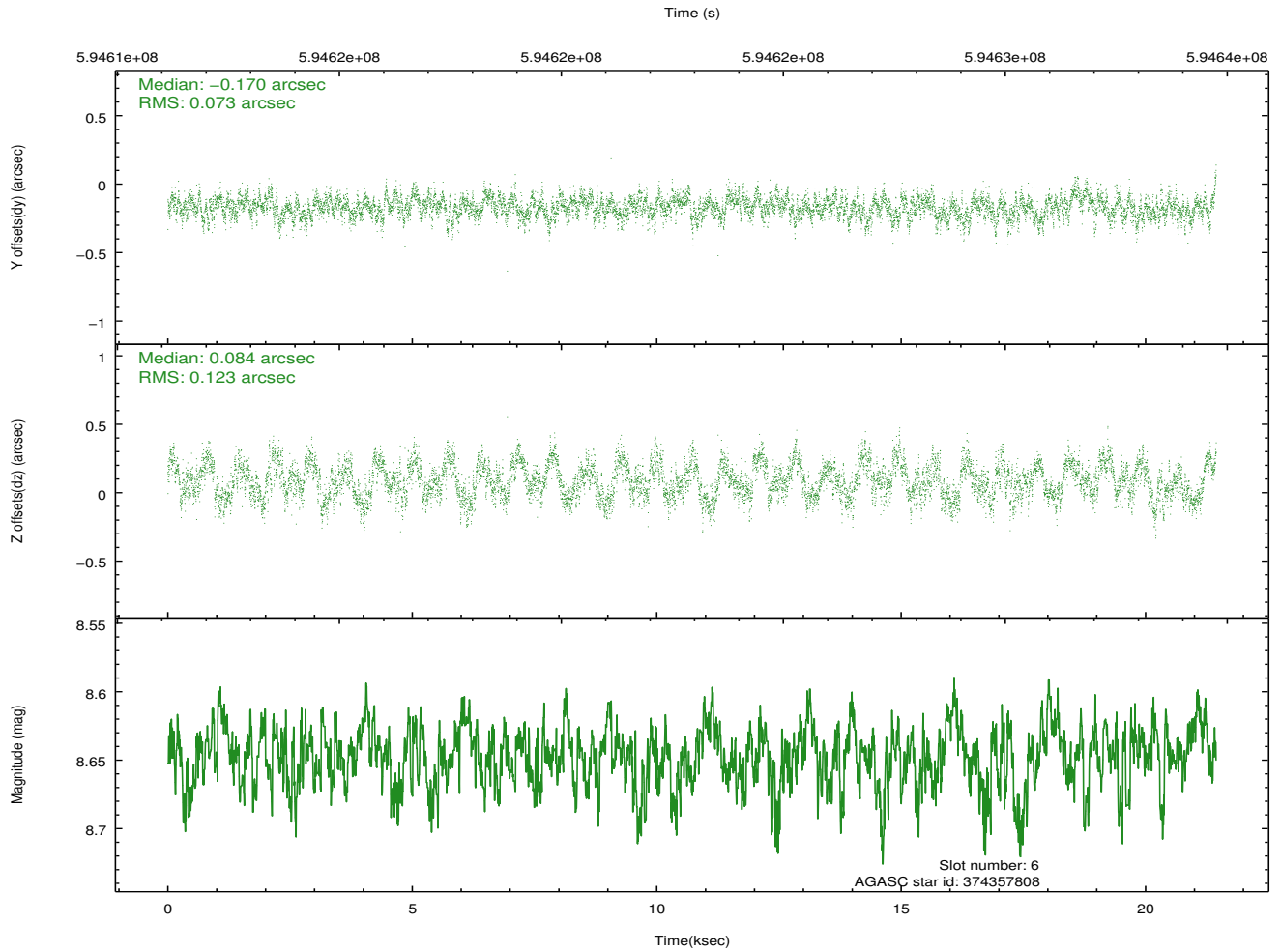
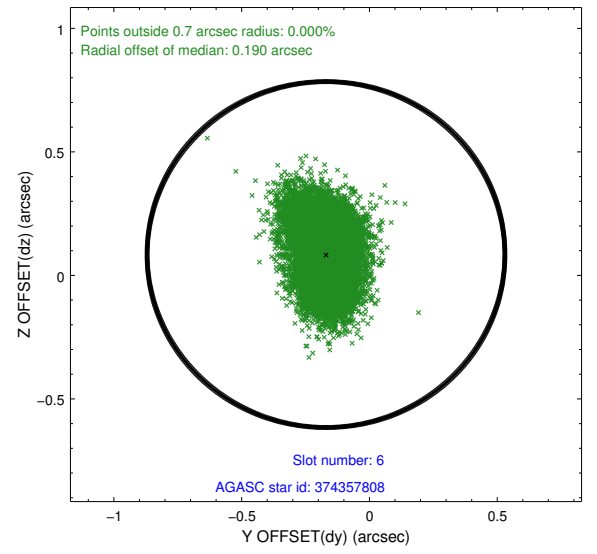
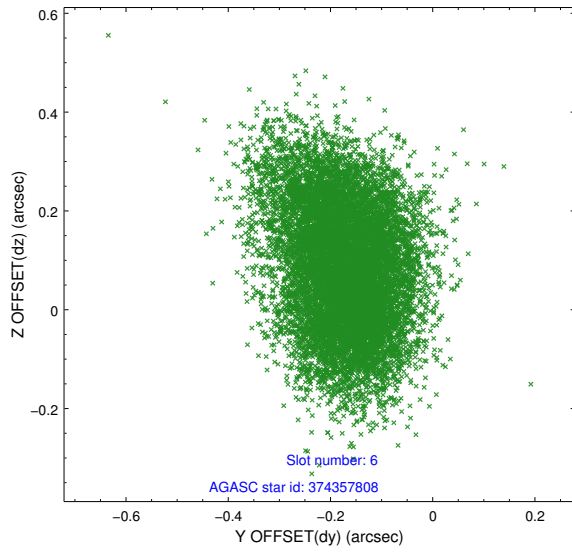
2.4.2 Slot 4



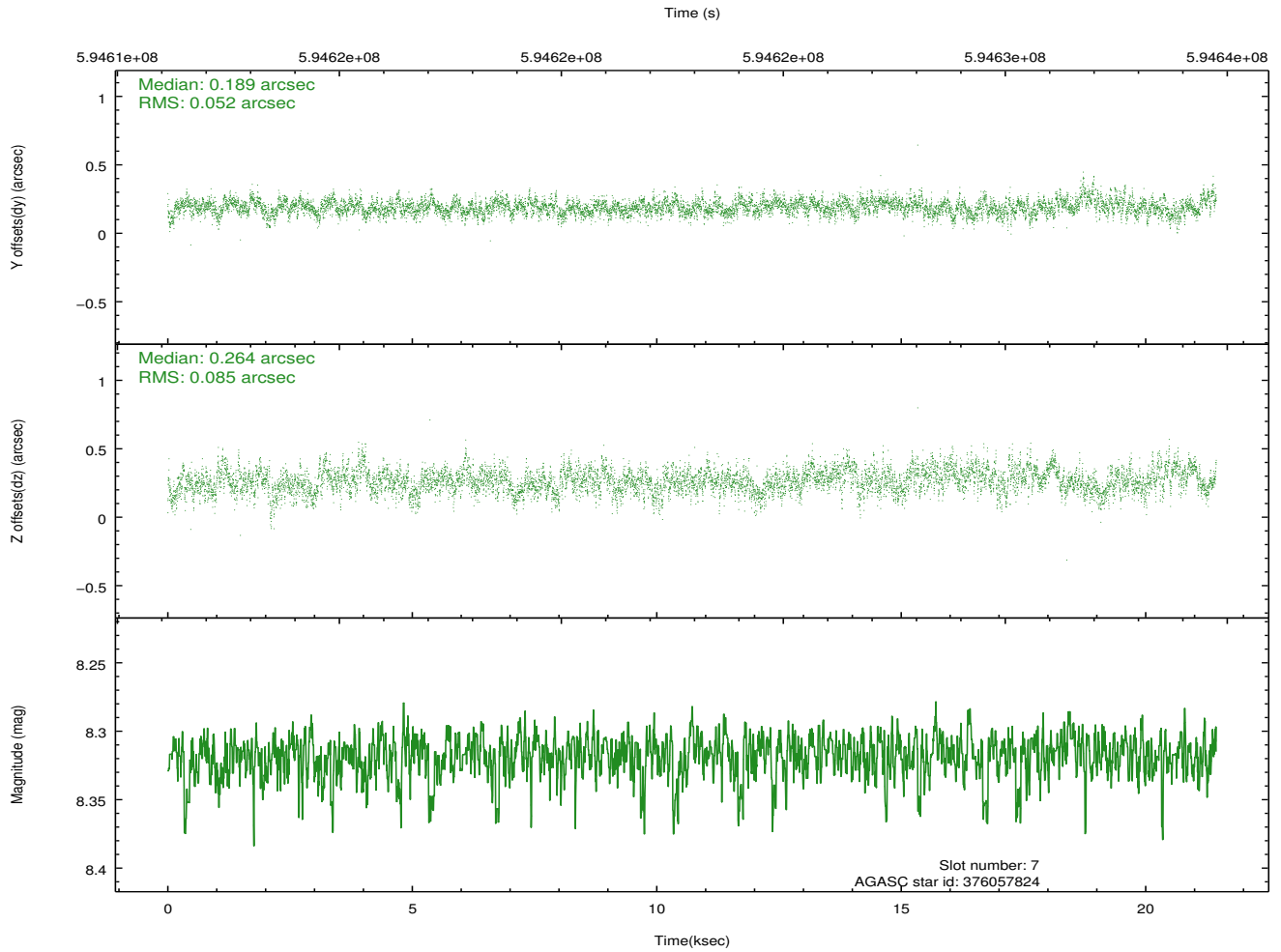
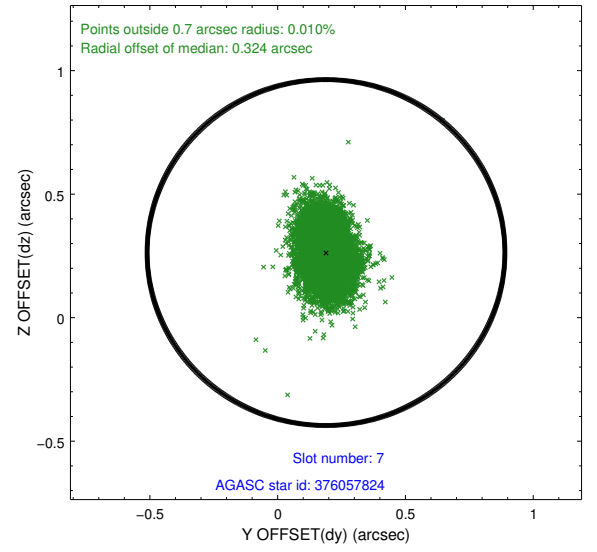
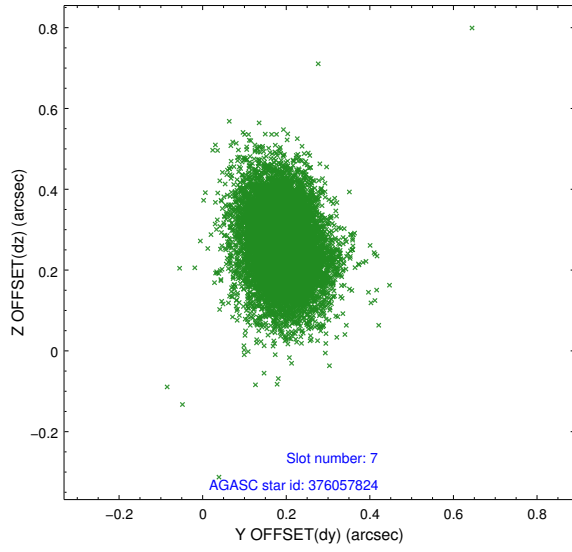
2.4.3 Slot 5



2.4.4 Slot 6

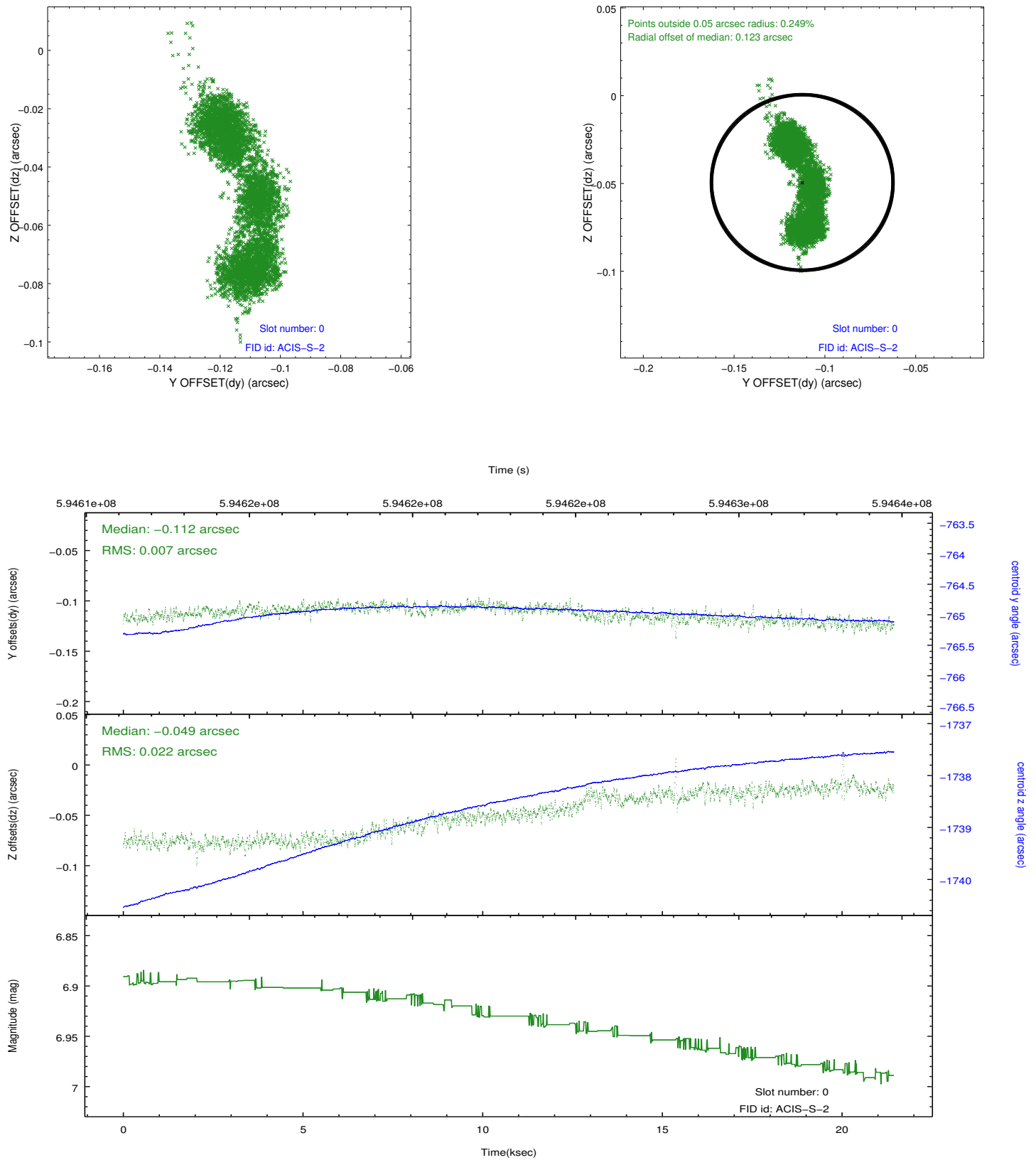


2.4.5 Slot 7

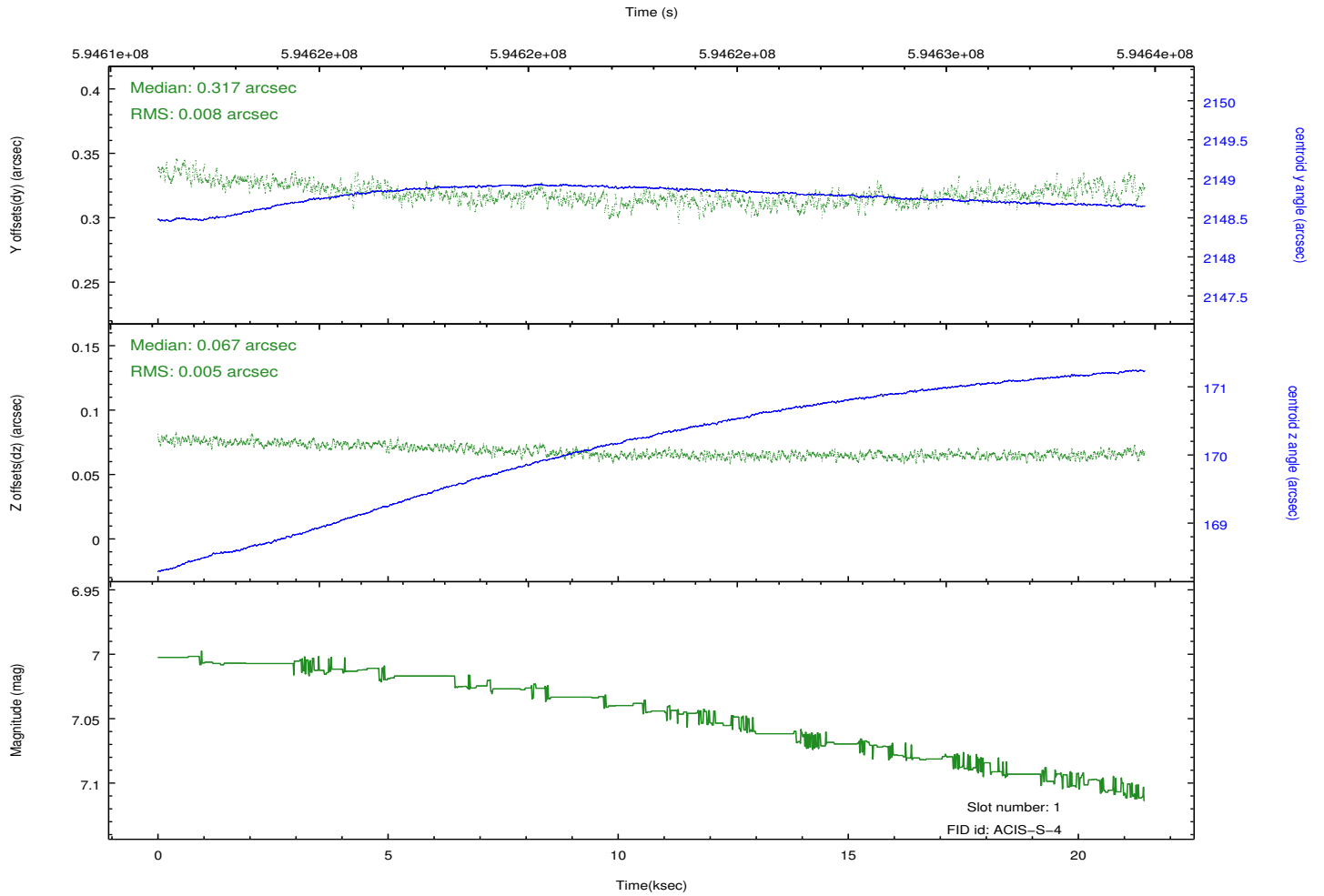
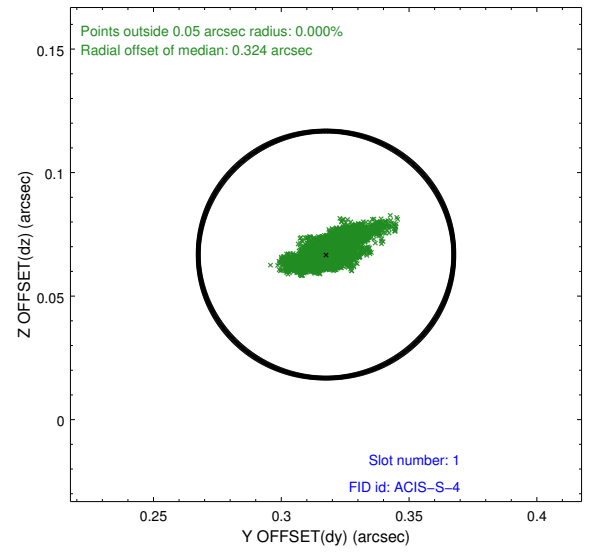
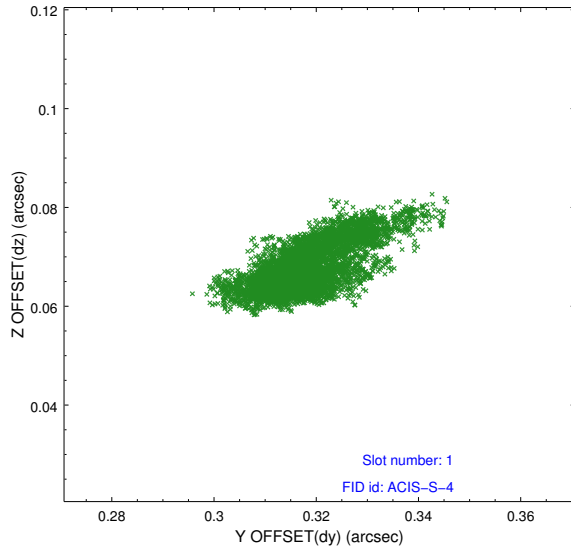


2.5 FID Slots

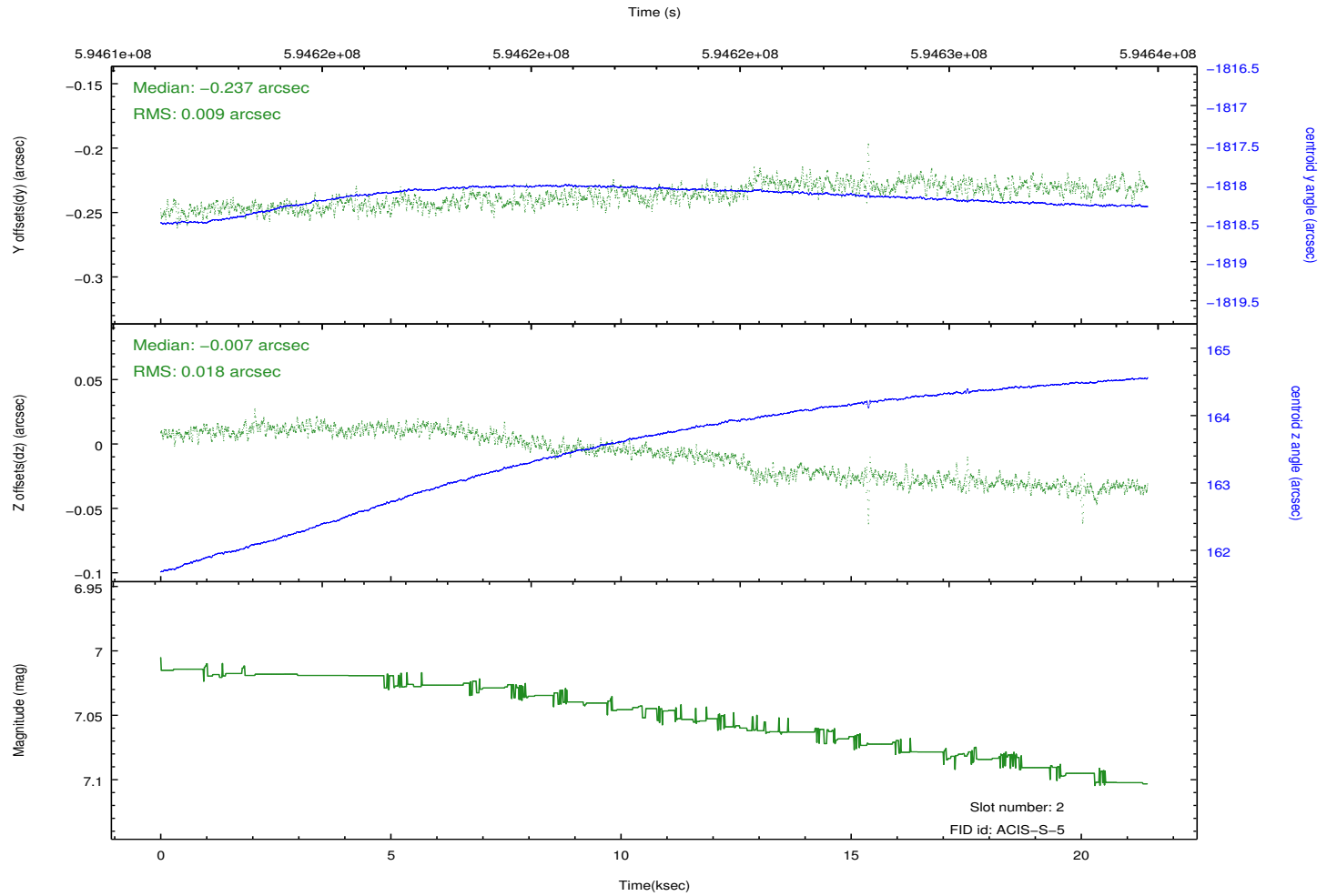
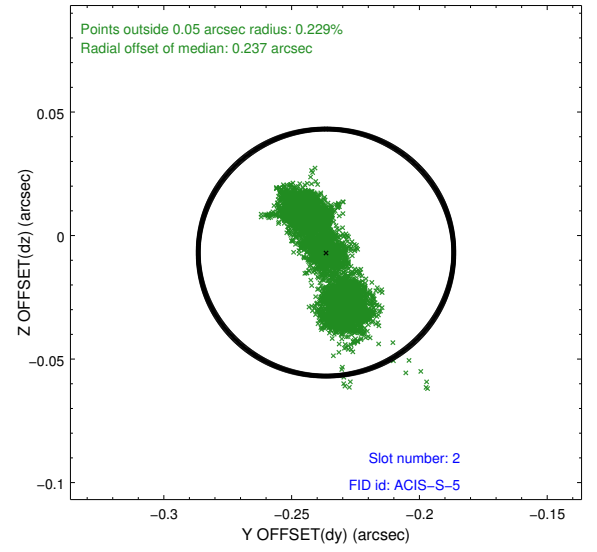
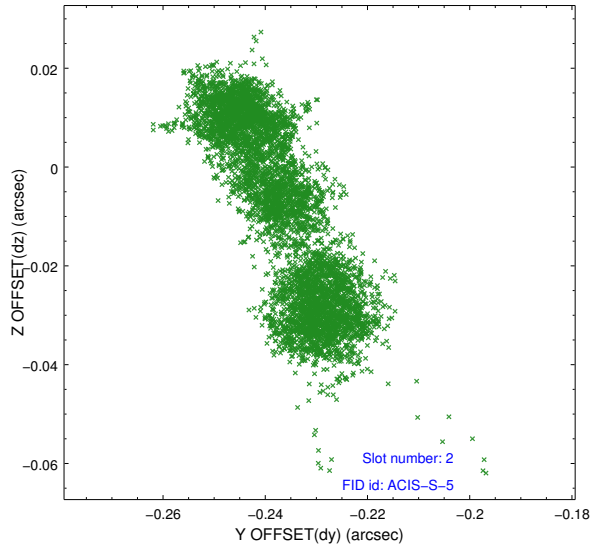
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2016.11.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	21.369601455688

A.2 Comments