

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19913 - L2 Version 1
Chandra X-Ray Center

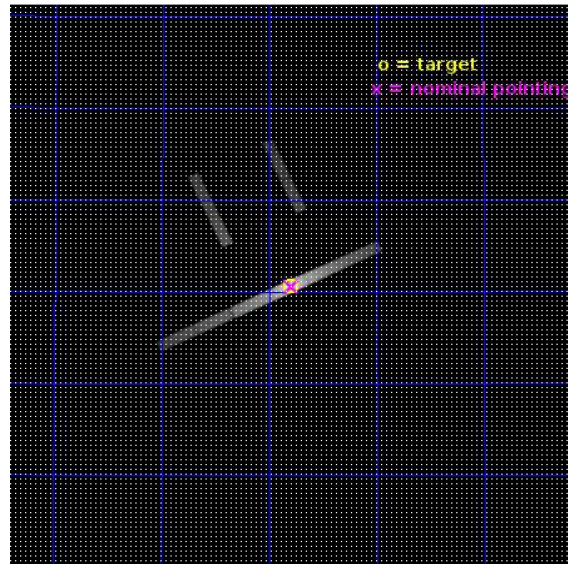
L2 Processing Date : Nov 2 2016

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1 Front

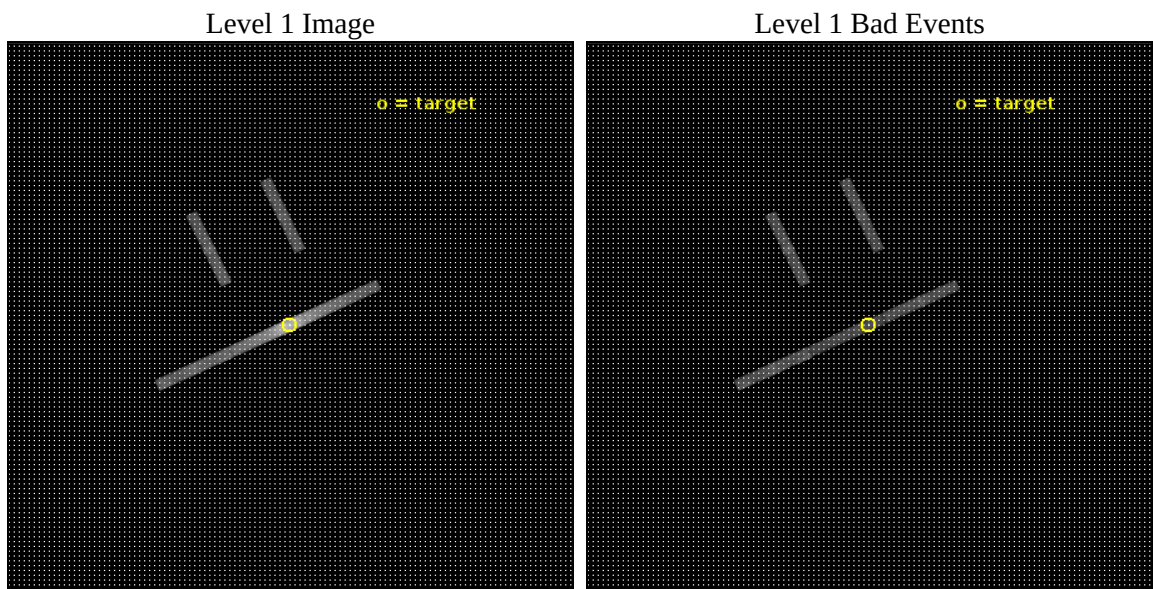
seq_num	801661	Sequence number
obs_id	19913	Observation id
title	Perseus and NGC 1275: Inner Bubbles and Inner Disks	Proposal title
observer	Jon Miller	Principal investigator
object	Perseus Cluster	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	49.950833	Observer's specified target RA [deg]
dec_targ	41.511694	Observer's specified target Dec [deg]
ra_nom	49.948081332825	Nominal RA [deg]
dec_nom	41.509507926967	Nominal Dec [deg]
roll_nom	154.65845153472	Nominal Roll [deg]
revision	1	Processing version of data
ontime	29669.342275143	Sum of GTIs [s]
livetime	28026.205862841	Livetime [s]
ontime2	29669.178115129	Sum of GTIs [s]
ontime3	29669.260195136	Sum of GTIs [s]
ontime6	29669.301235199	Sum of GTIs [s]
ontime7	29669.342275143	Sum of GTIs [s]
ontime8	29669.219155192	Sum of GTIs [s]
l2events	500533	Number of level 2 events



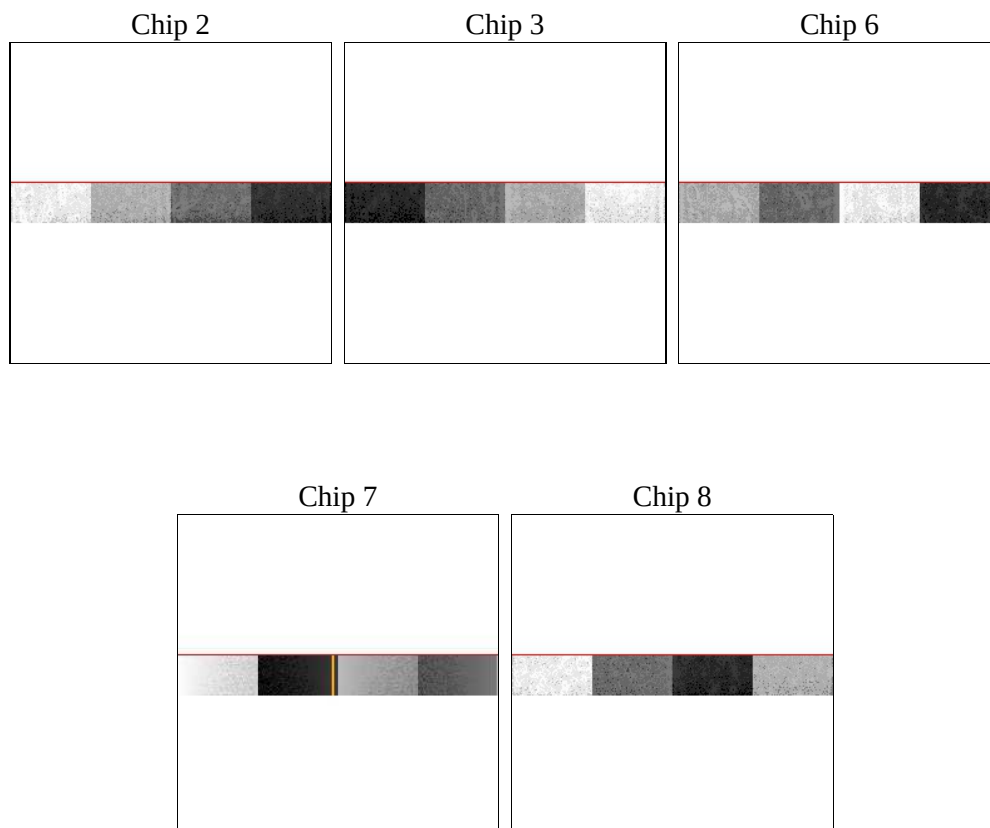
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	29600.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	29669.342275143	Sum of GTIs [s]
caldsver	4.7.2	 	ontime2	29669.178115129	Sum of GTIs [s]
date	2016-11-02T15:41:45	Date and time of file creation	ontime3	29669.260195136	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	29669.301235199	Sum of GTIs [s]
			ontime7	29669.342275143	Sum of GTIs [s]
			ontime8	29669.219155192	Sum of GTIs [s]
			l1events	683375	Number of level 1 events

2.1.4 Events

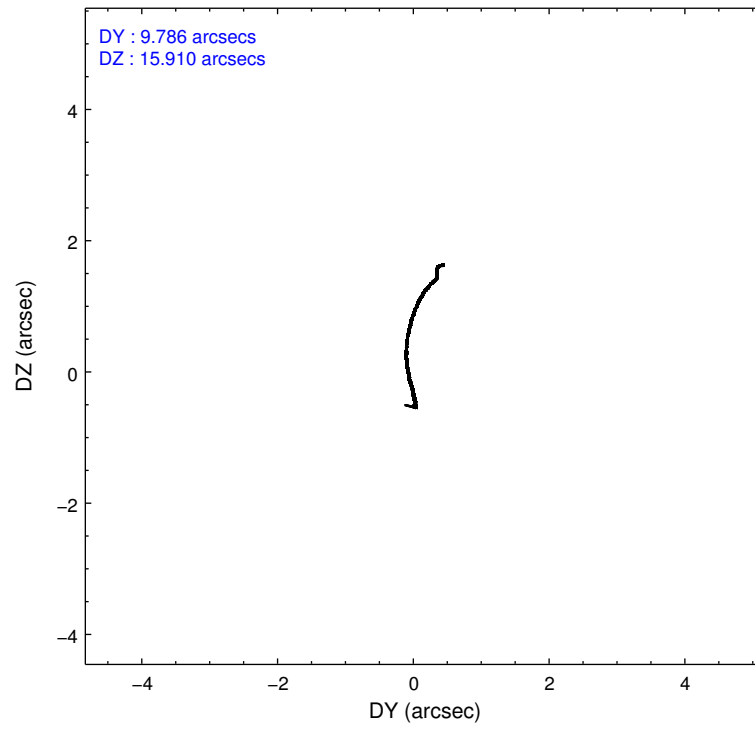
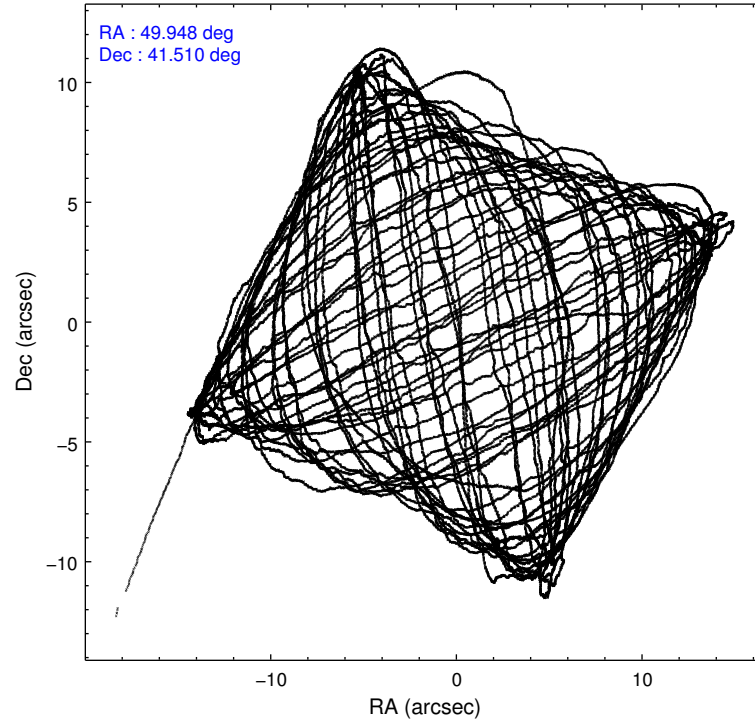
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	36343	41081	98687	446211	61053
rejected events	27279	28561	29188	44234	35457
rejected %	75%	69%	29%	9%	58%

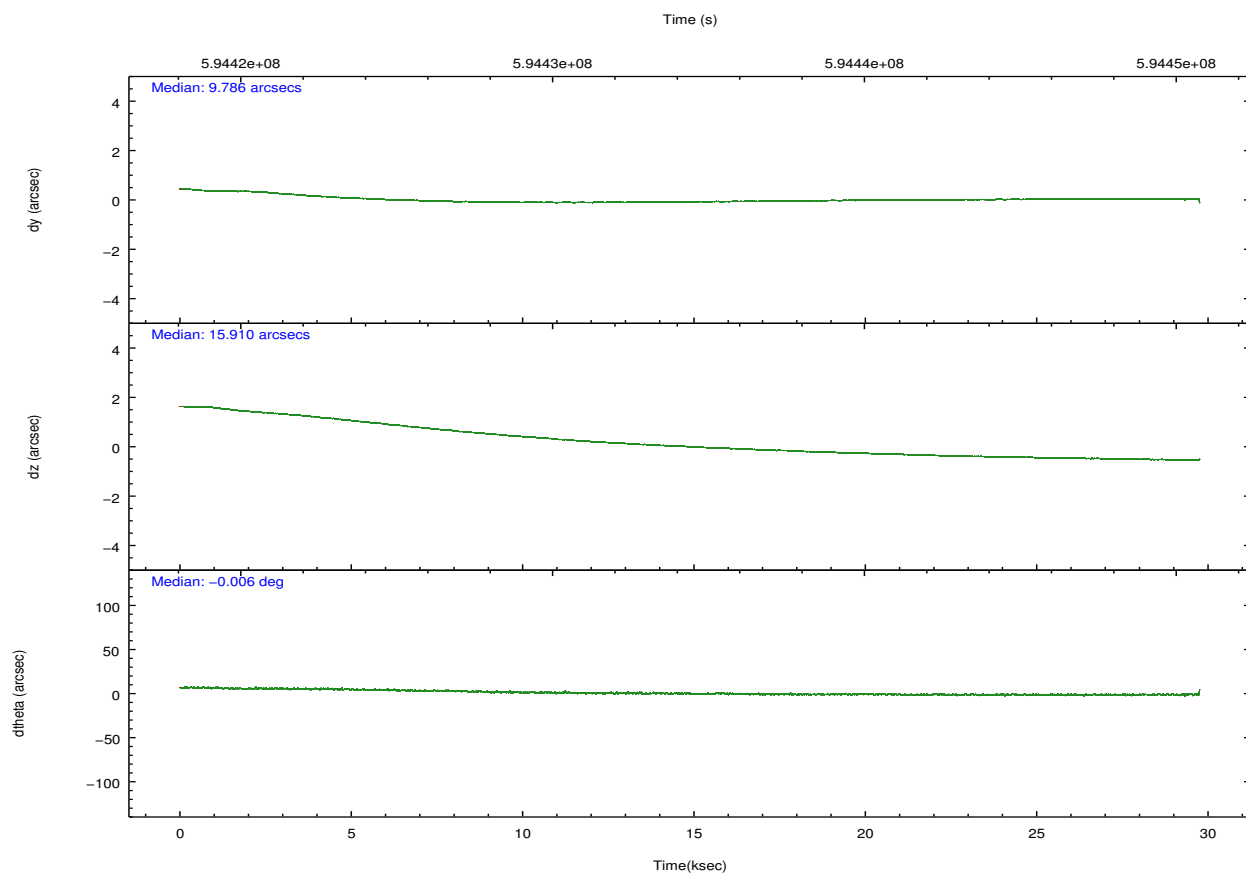
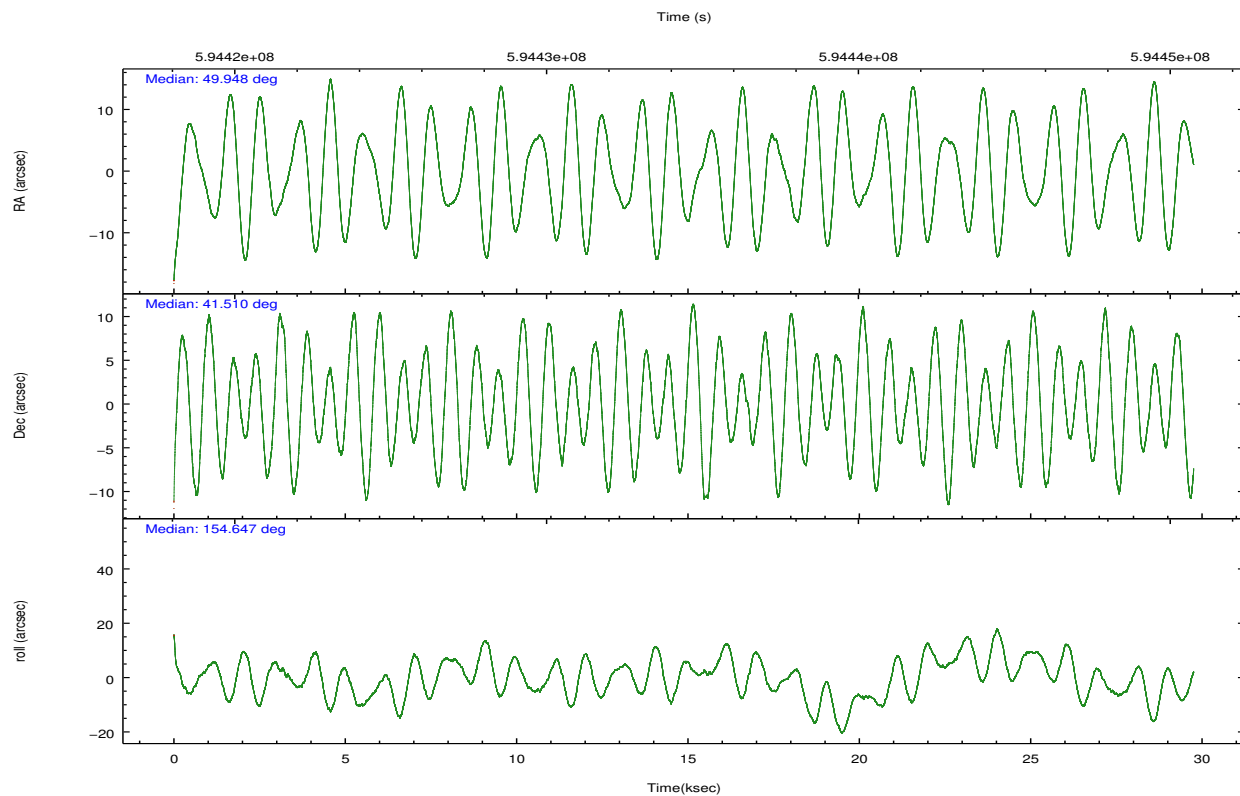
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	5386	8331	53449	101308	14394
	14%	20%	54%	22%	23%
grade 1 events	11	20	107	1130	34
	0%	0%	0%	0%	0%
grade 2 events	1360	1651	7860	103854	3997
	3%	4%	7%	23%	6%
grade 3 events	798	873	2703	45945	1584
	2%	2%	2%	10%	2%
grade 4 events	725	832	2711	45010	1600
	1%	2%	2%	10%	2%
grade 5 events	990	1205	1489	11290	1876
	2%	2%	1%	2%	3%
grade 6 events	795	835	2778	105882	4022
	2%	2%	2%	23%	6%
grade 7 events	26278	27334	27590	31792	33546
	72%	66%	27%	7%	54%

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	49.984573	49.94808133282496	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	41.512095	41.50950792696727	Subarray start row	449	449
[deg] Pointing Roll	154.477638	154.6584515347177	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	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	594419684.184000	594418410.5381401			
Observation start date	2016-11-01T20:33:36	2016-11-01T20:13:30			
[s] Observation end time (MET)	594449284.184000	594450315.20248			
Observation end date	2016-11-02T04:46:56	2016-11-02T05:05:15			
Read mode	TIMED	TIMED			

2.3 Aspect



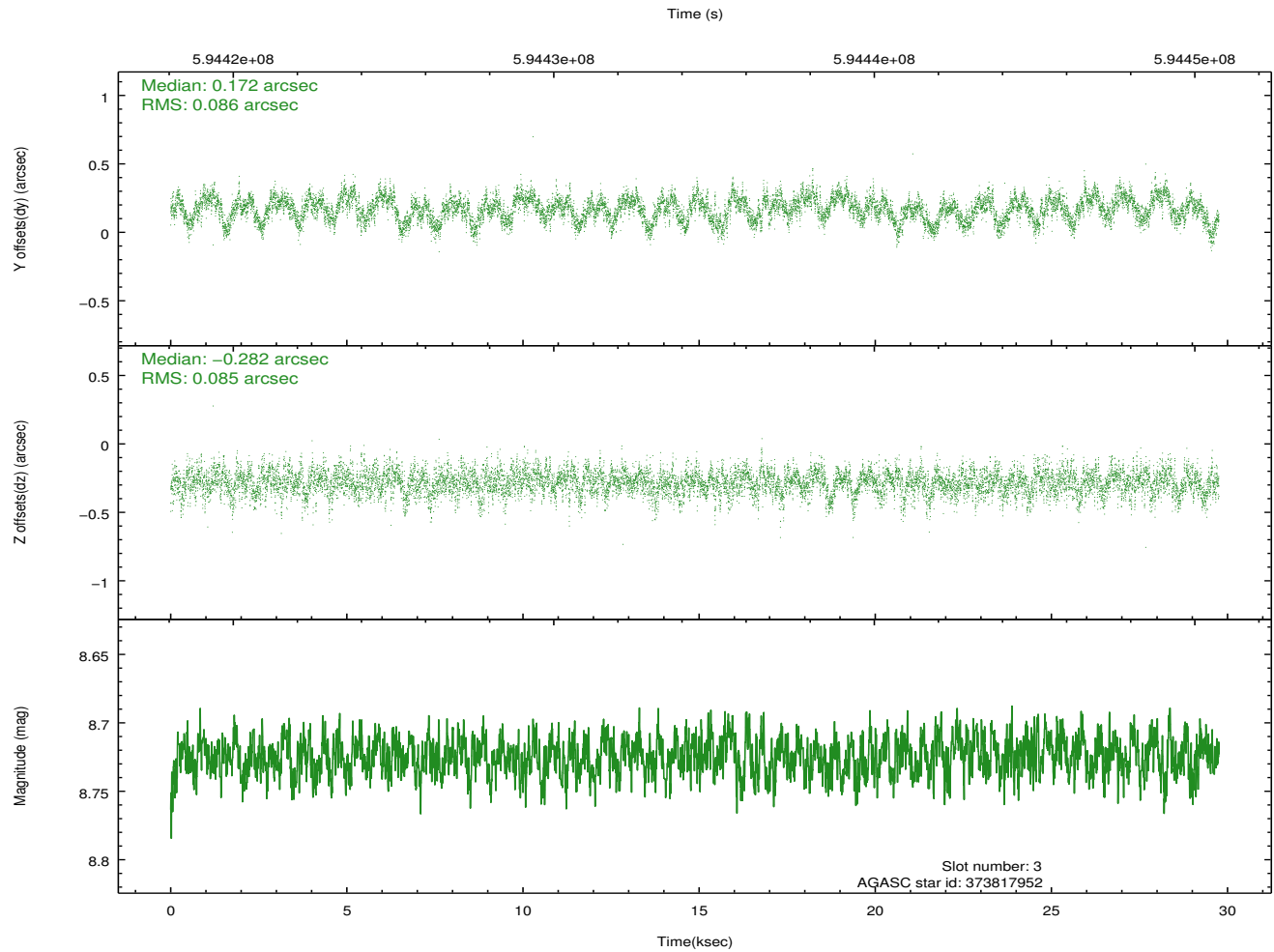
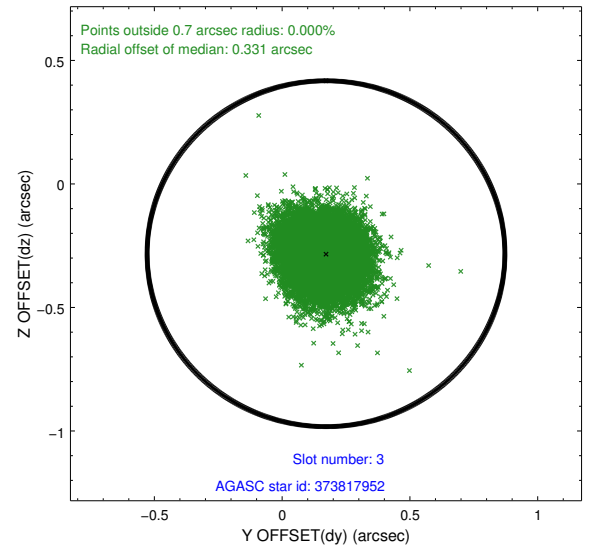
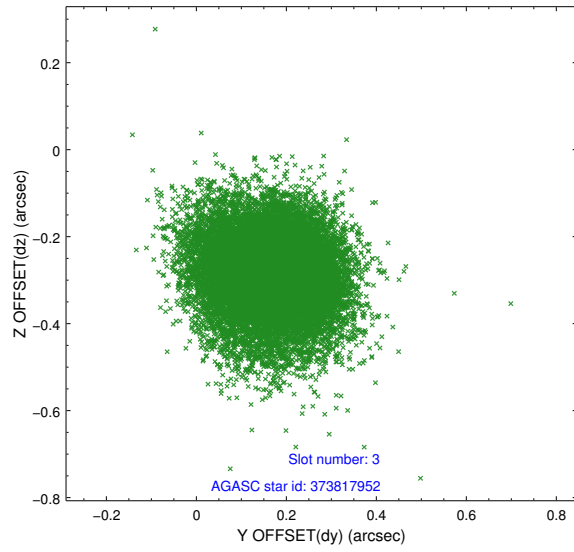


Slot Statistics

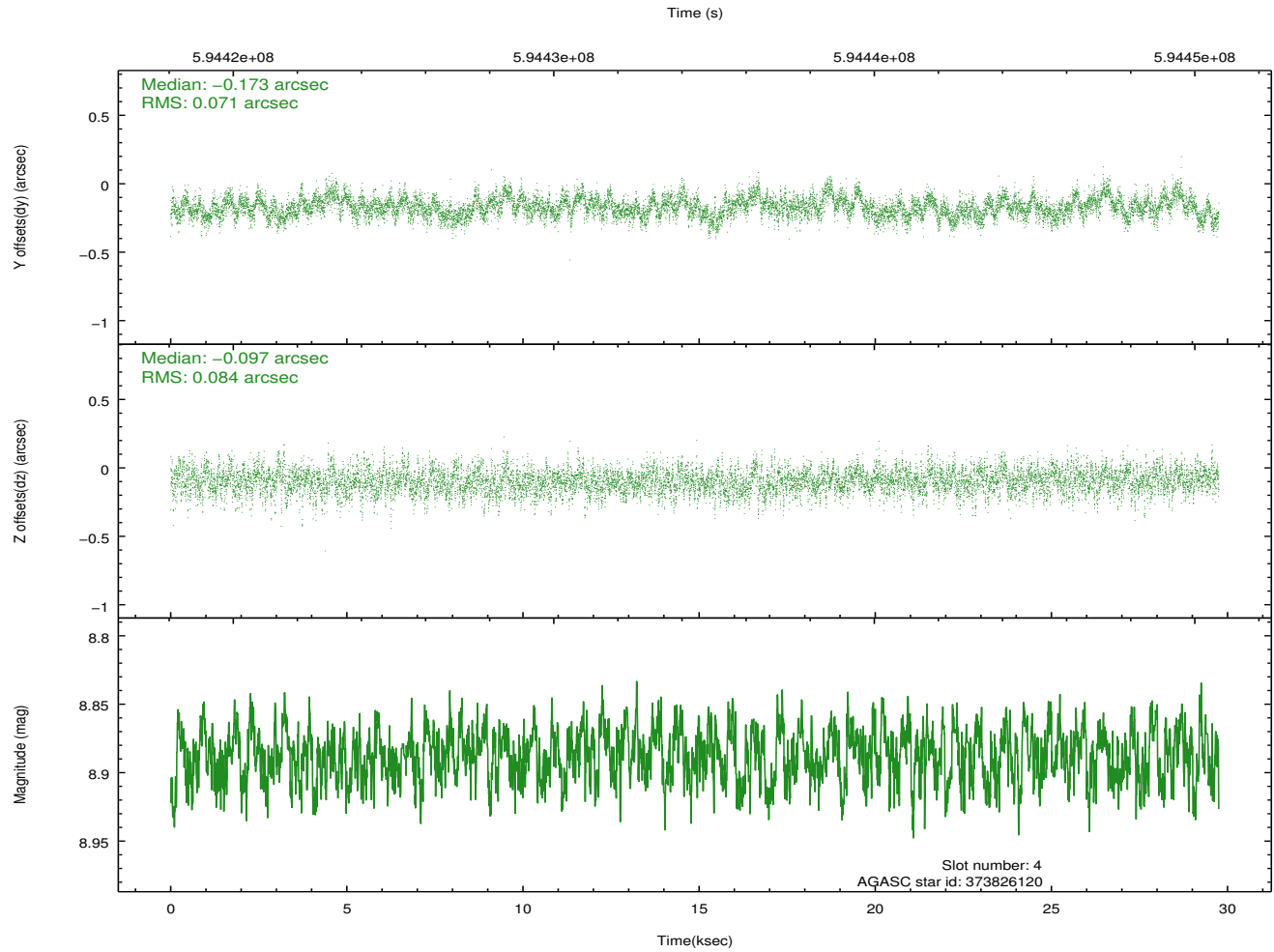
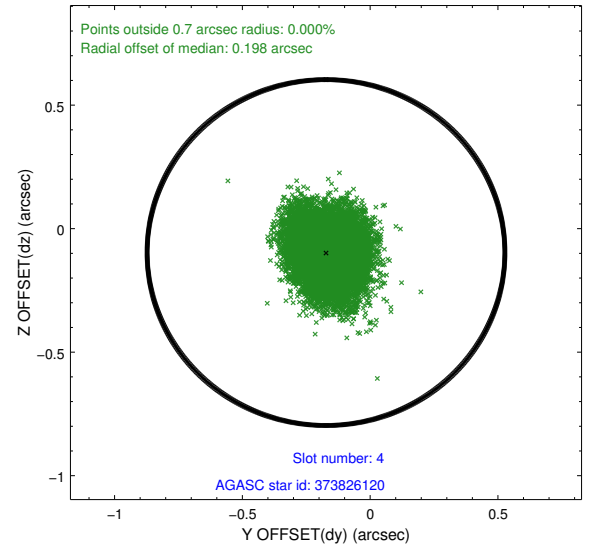
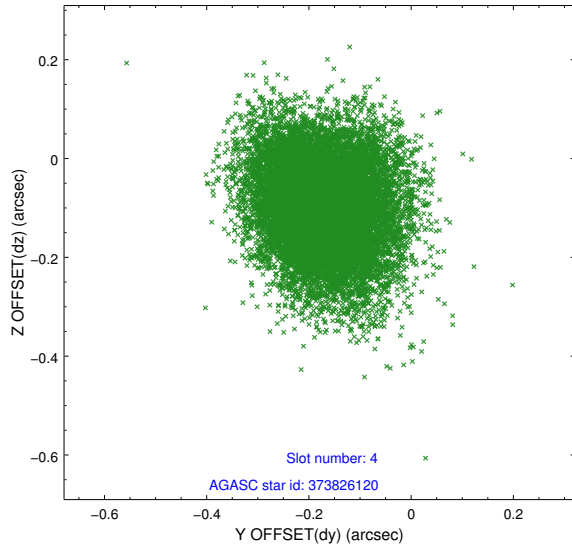
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-4	7.17	7258	0.282	0.004	0.008	0.013	0.000000	0.000000	2150.99	171.23
1	FID		ACIS-S-5	7.18	7258	-0.343	-0.008	0.012	0.020	0.000000	0.000000	-1815.73	164.61
2	FID		ACIS-S-6	7.30	7258	0.032	0.017	0.011	0.027	0.000000	0.000000	398.90	808.42
3	GUIDE	used	373817952	8.72	14506	0.172	-0.282	0.128	0.207	49.913424	40.978510	-653.17	1816.66
4	GUIDE	used	373826120	8.89	14503	-0.173	-0.097	0.116	0.193	49.738165	41.186341	97.45	1345.35
5	GUIDE	used	376057824	8.32	14512	0.164	0.264	0.096	0.168	50.665569	41.926280	-1000.16	-2137.18
6	GUIDE	used	374357808	8.65	14503	-0.156	0.070	0.127	0.211	49.921429	42.176083	1182.26	-2084.19
7	GUIDE	used	374352808	8.74	14504	-0.004	0.052	0.112	0.191	49.969955	42.208621	1116.32	-2245.55

2.4 Star Slots

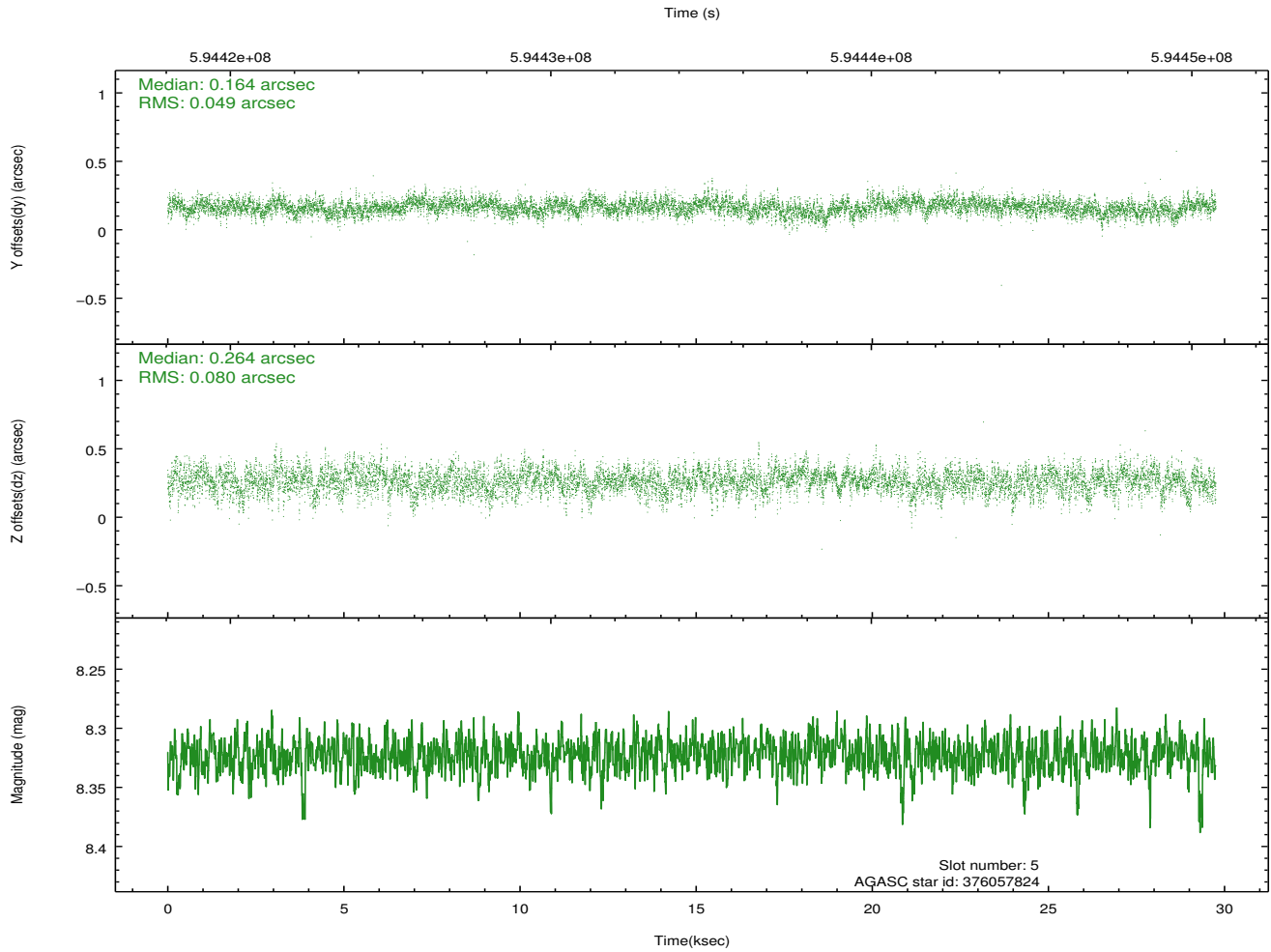
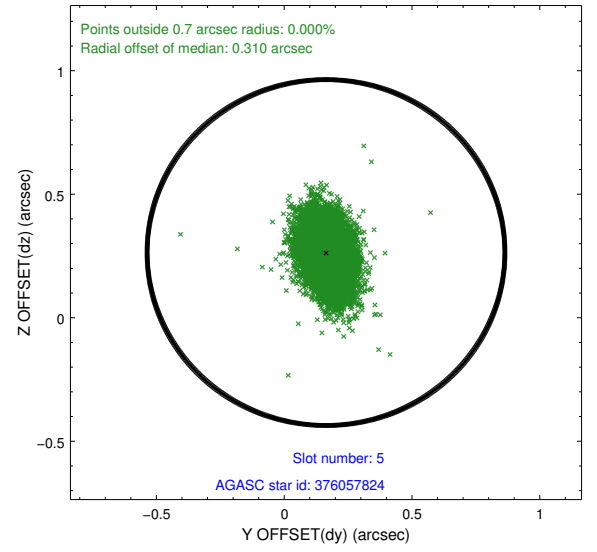
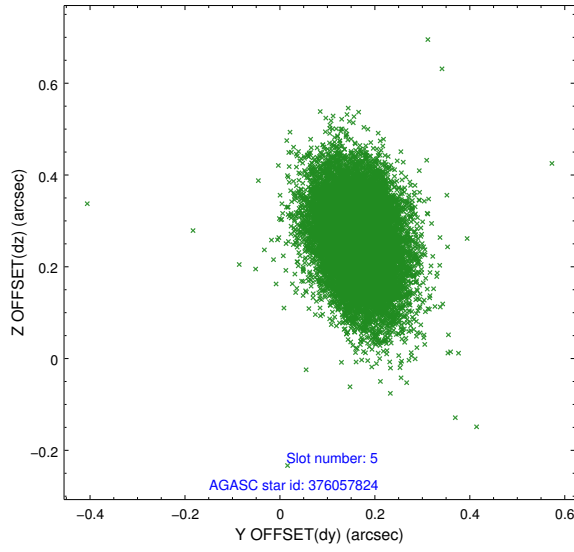
2.4.1 Slot 3



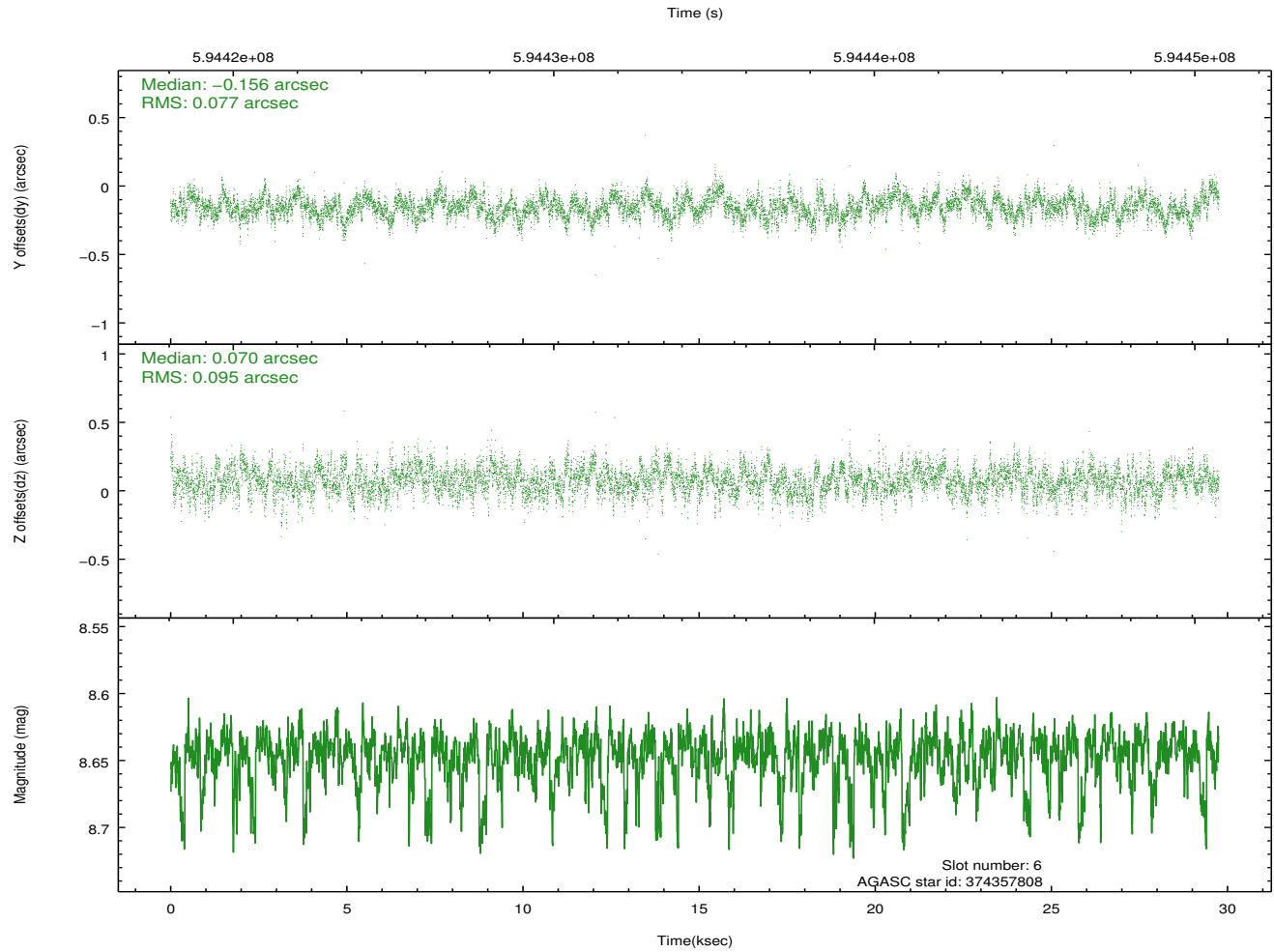
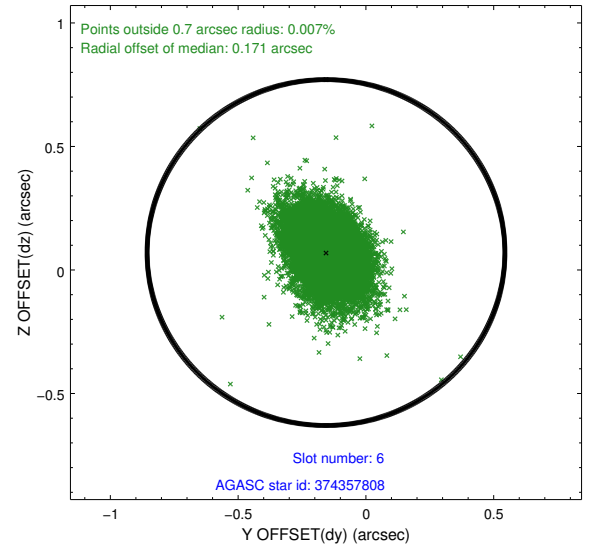
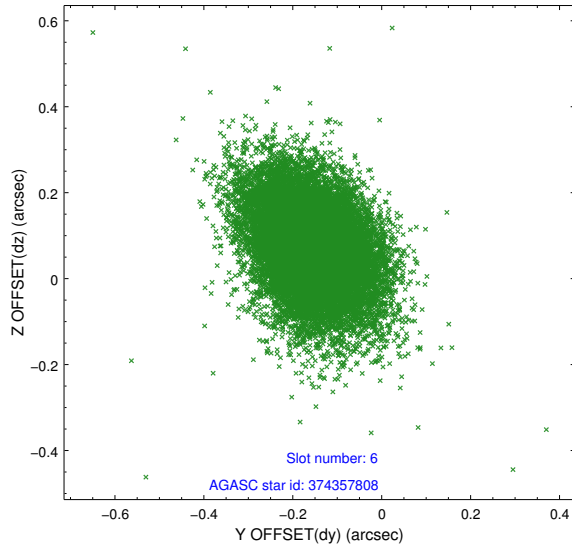
2.4.2 Slot 4



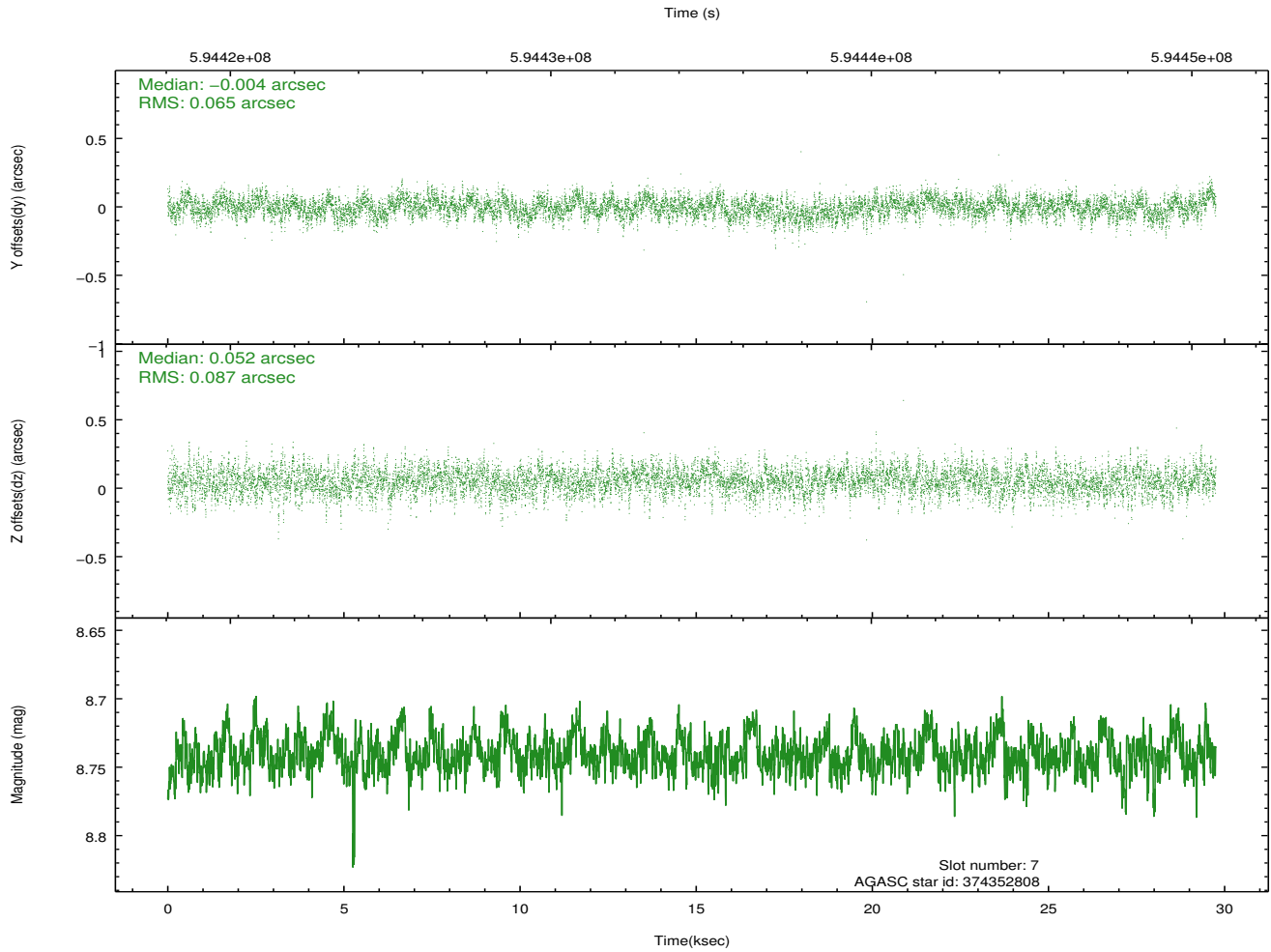
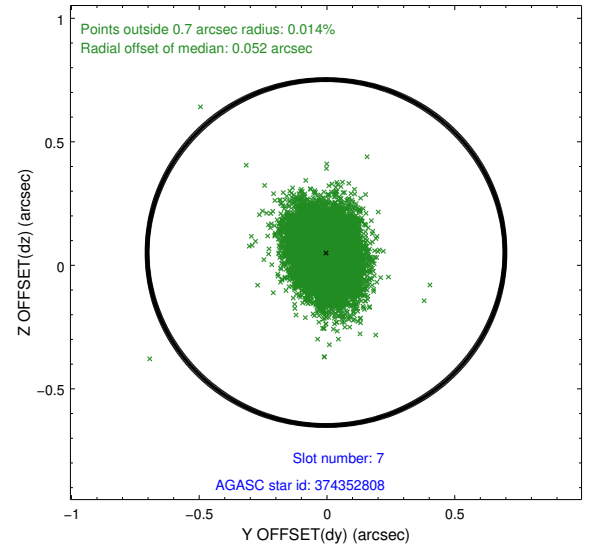
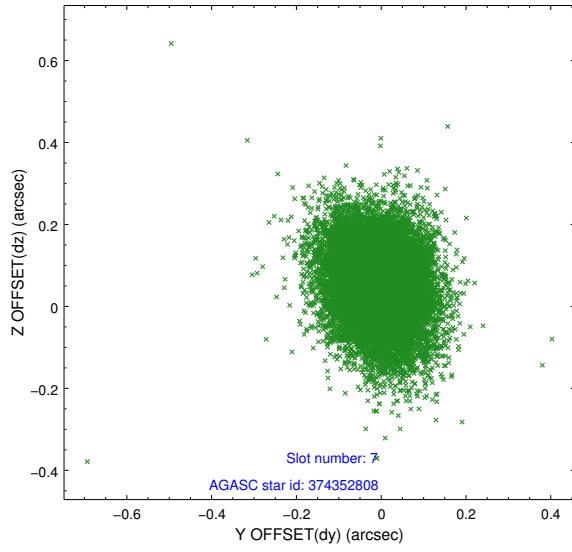
2.4.3 Slot 5



2.4.4 Slot 6

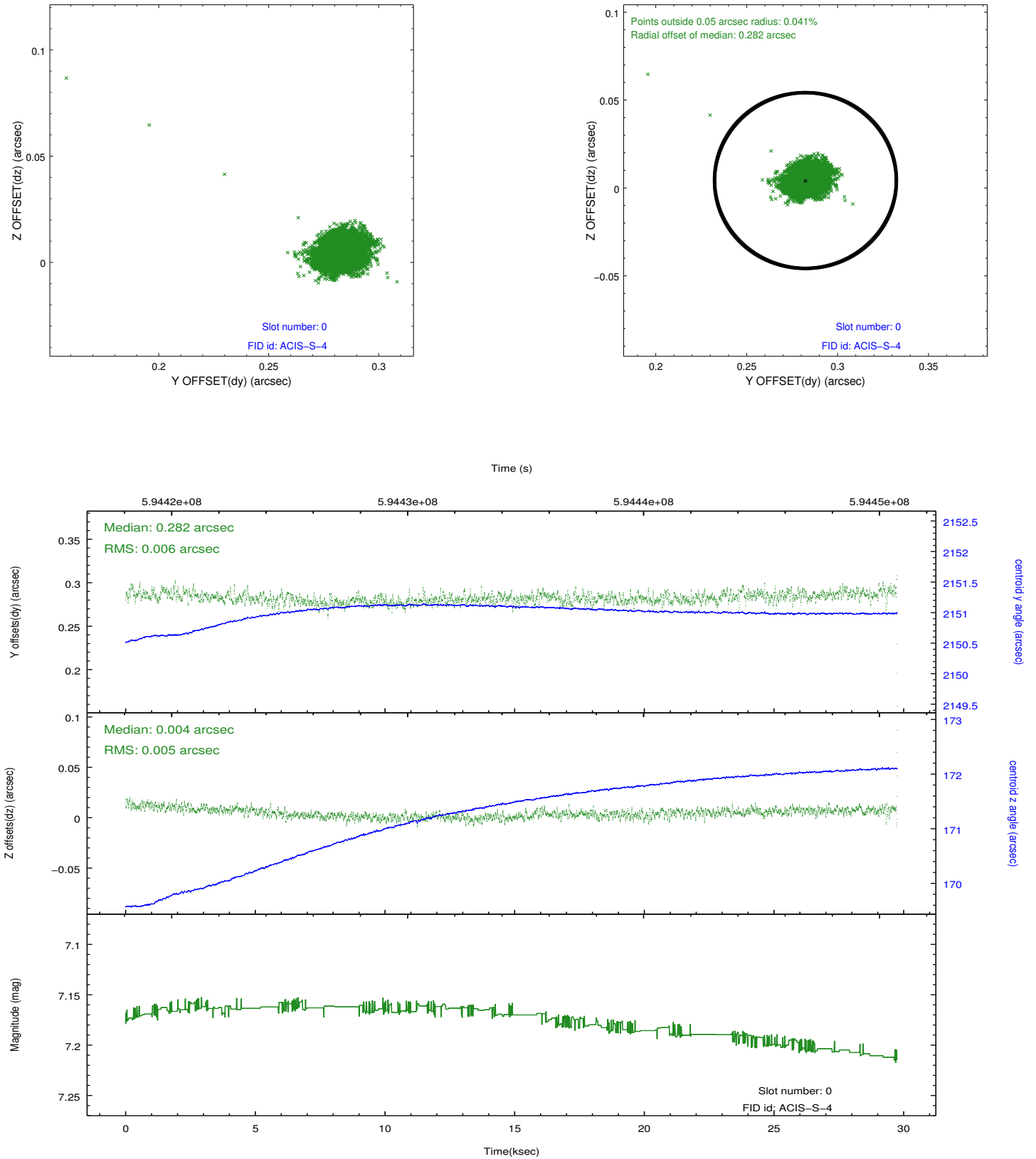


2.4.5 Slot 7

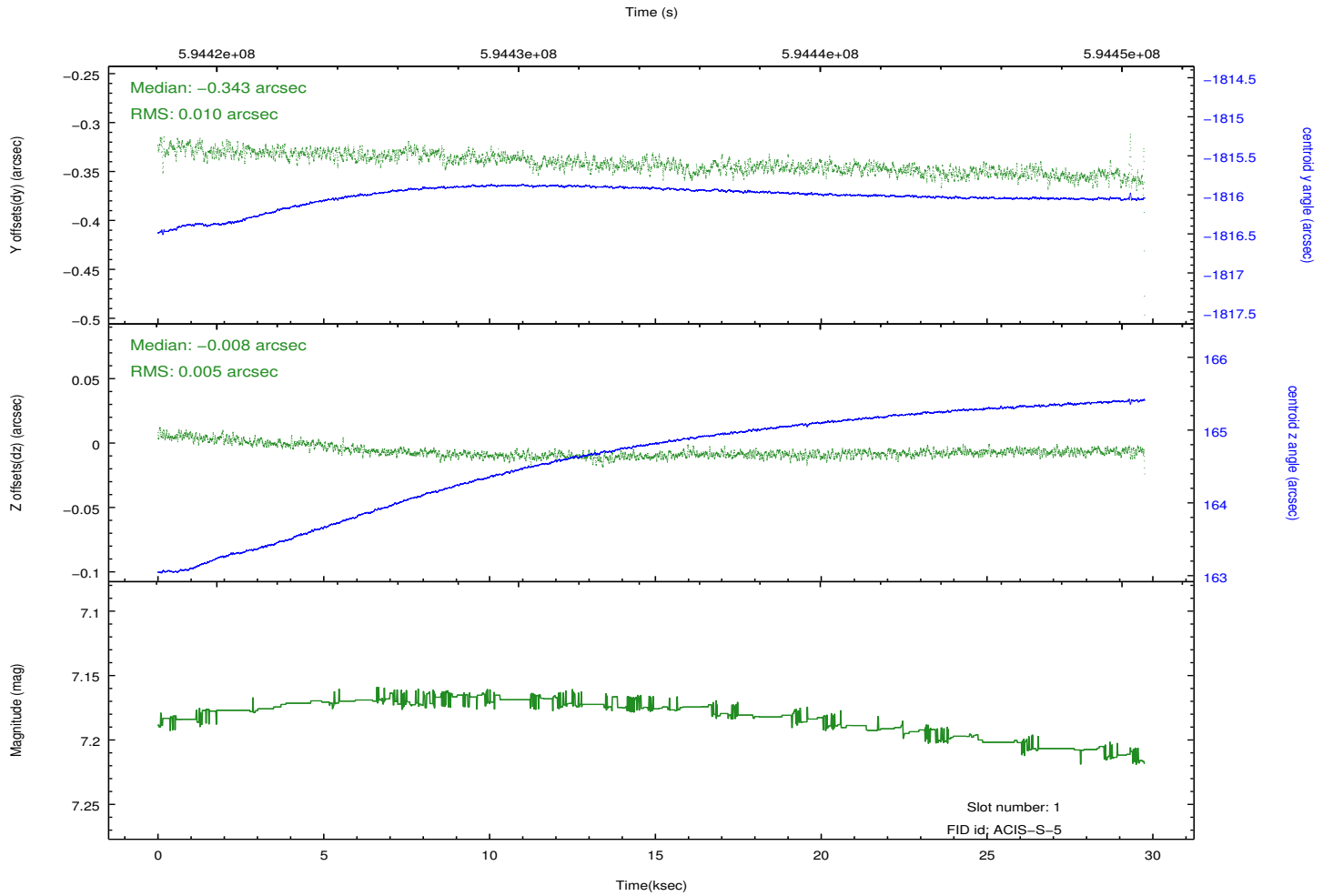
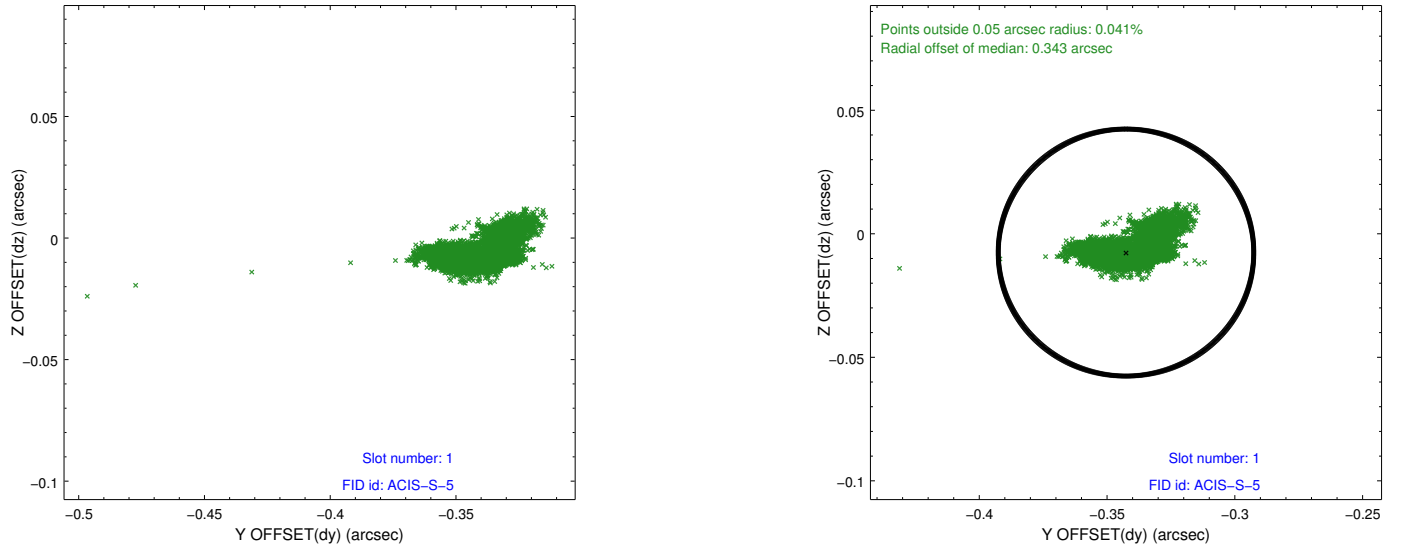


2.5 FID Slots

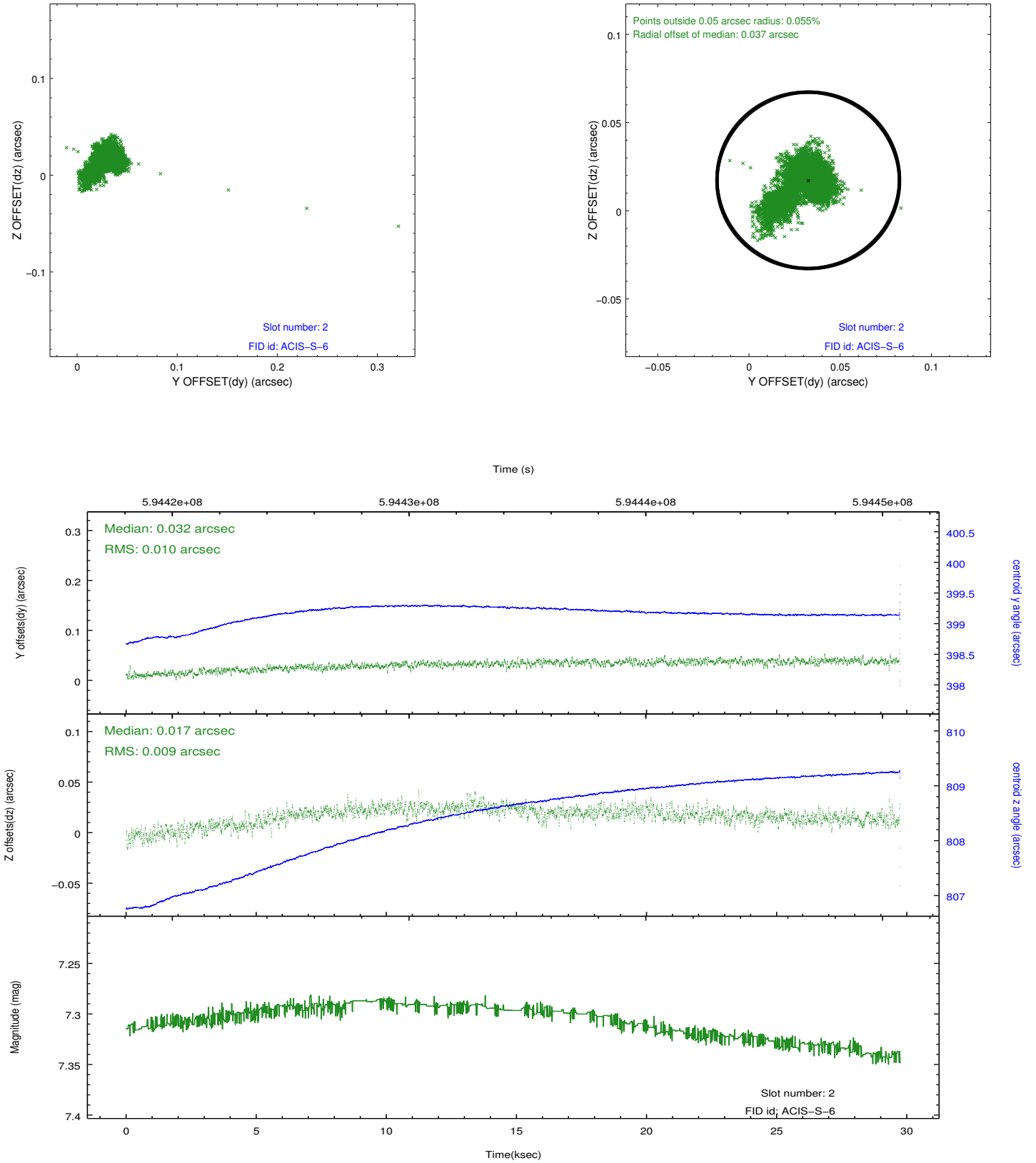
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2016.11.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	29.669342275143

A.2 Comments