

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19915 - L2 Version 1
Chandra X-Ray Center

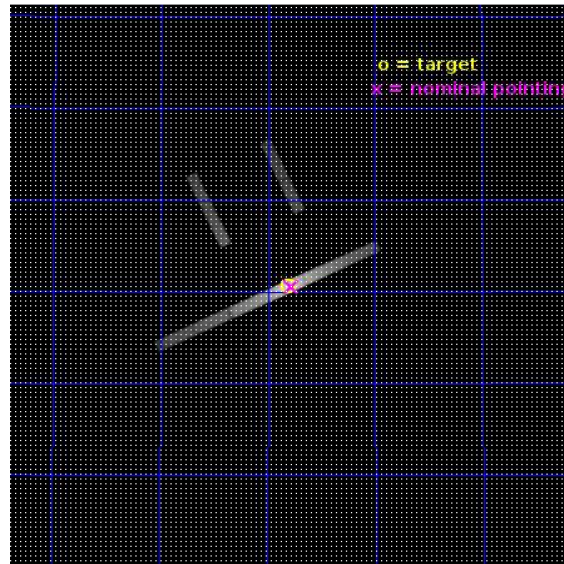
L2 Processing Date : Nov 7 2016

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1 Front

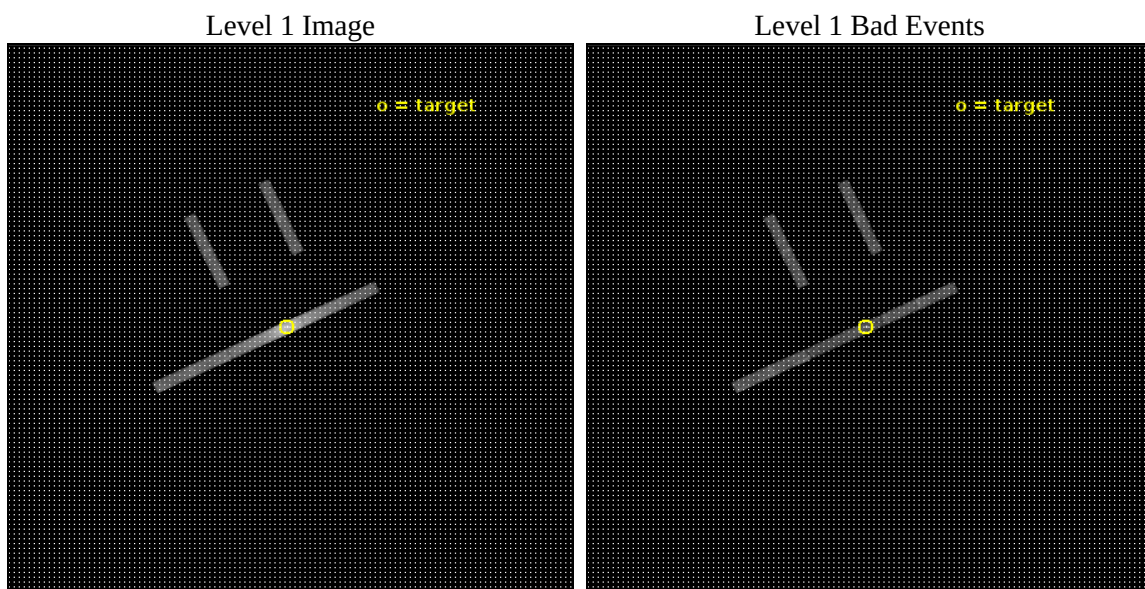
seq_num	801661	Sequence number
obs_id	19915	Observation id
title	Perseus and NGC 1275: Inner Bubbles and Inner Disks	Proposal title
observer	Jon Miller	Principal investigator
object	Perseus Cluster	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	49.950833	Observer's specified target RA [deg]
dec_targ	41.511694	Observer's specified target Dec [deg]
ra_nom	49.944737310122	Nominal RA [deg]
dec_nom	41.509475762127	Nominal Dec [deg]
roll_nom	154.66067283819	Nominal Roll [deg]
revision	1	Processing version of data
ontime	19069.216954947	Sum of GTIs [s]
livetime	18013.132716807	Livetime [s]
ontime2	19069.052794933	Sum of GTIs [s]
ontime3	19069.13487494	Sum of GTIs [s]
ontime6	19069.175915003	Sum of GTIs [s]
ontime7	19069.216954947	Sum of GTIs [s]
ontime8	19069.093834996	Sum of GTIs [s]
l2events	321041	Number of level 2 events



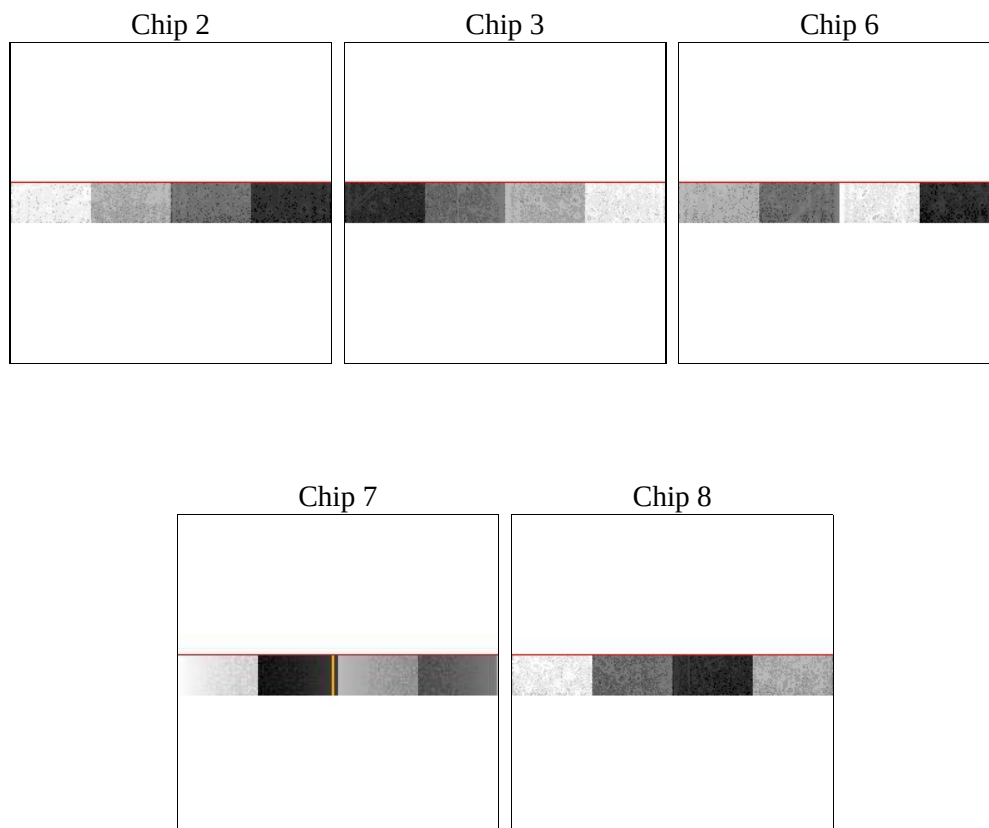
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	19000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	19069.216954947	Sum of GTIs [s]
caldsver	4.7.2	 	ontime2	19069.052794933	Sum of GTIs [s]
date	2016-11-07T14:36:05	Date and time of file creation	ontime3	19069.13487494	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	19069.175915003	Sum of GTIs [s]
			ontime7	19069.216954947	Sum of GTIs [s]
			ontime8	19069.093834996	Sum of GTIs [s]
			l1events	445089	Number of level 1 events

2.1.4 Events

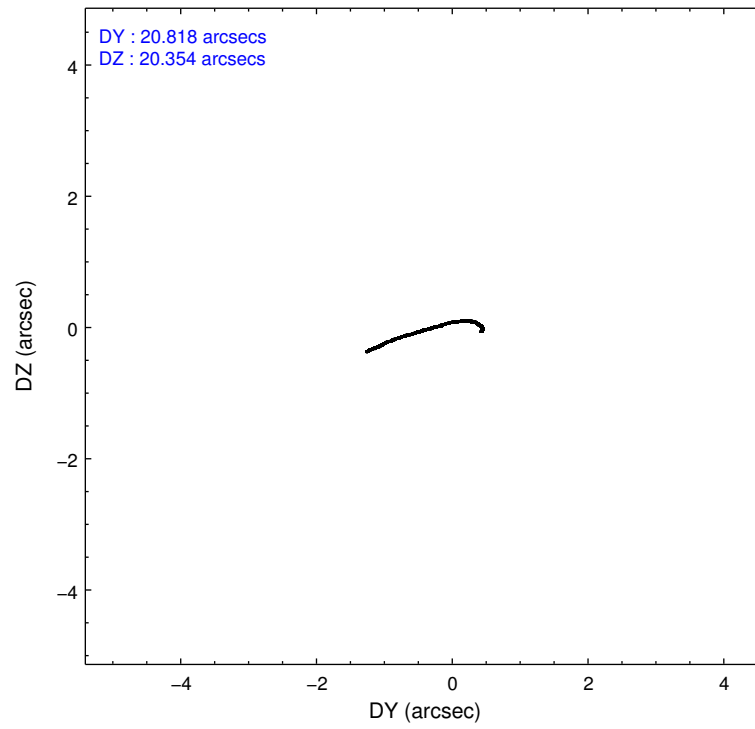
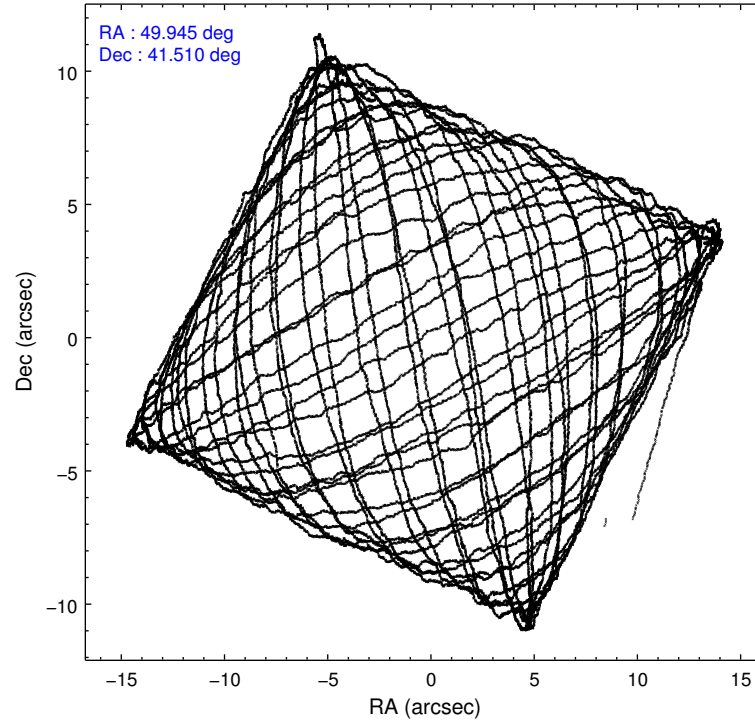
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	24313	26748	65808	287252	40968
rejected events	18554	18755	20521	29996	24632
rejected %	76%	70%	31%	10%	60%

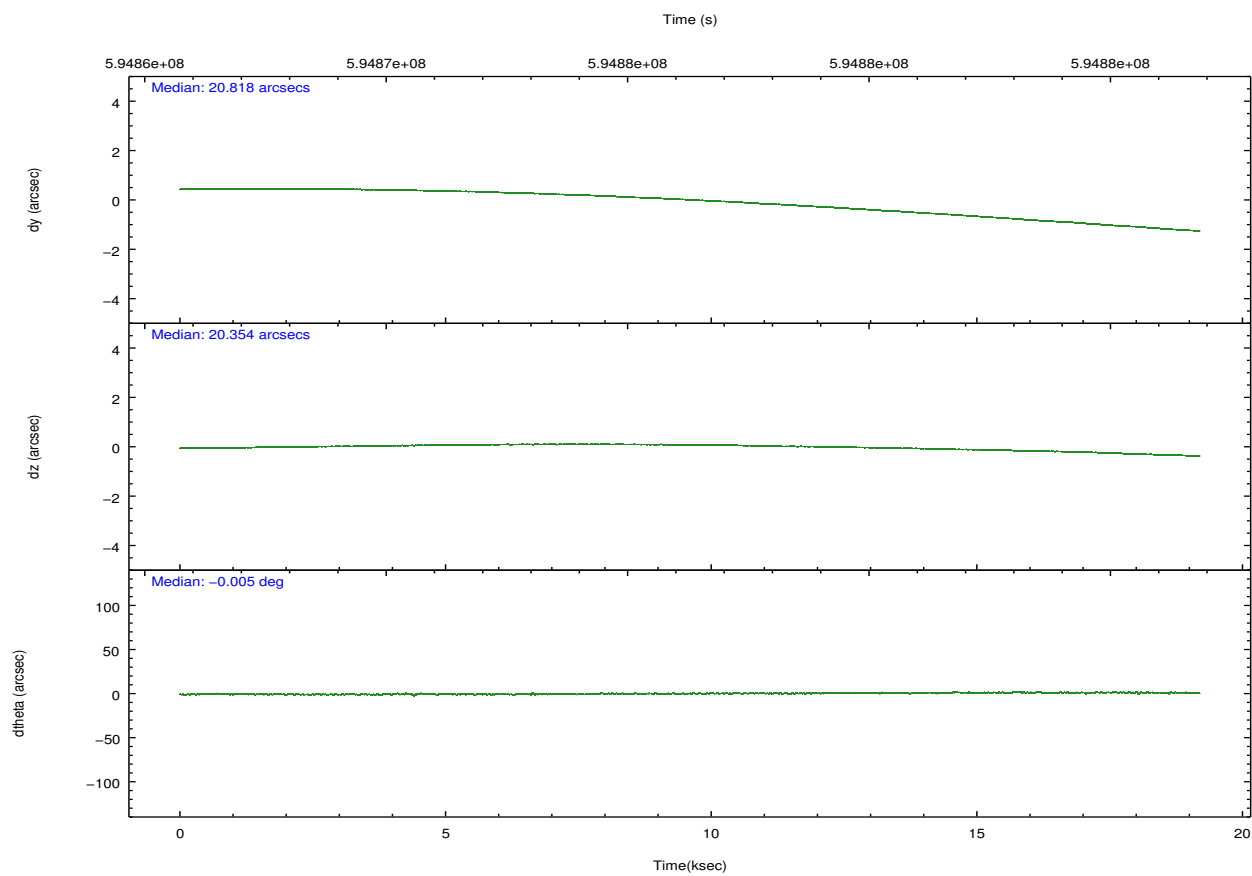
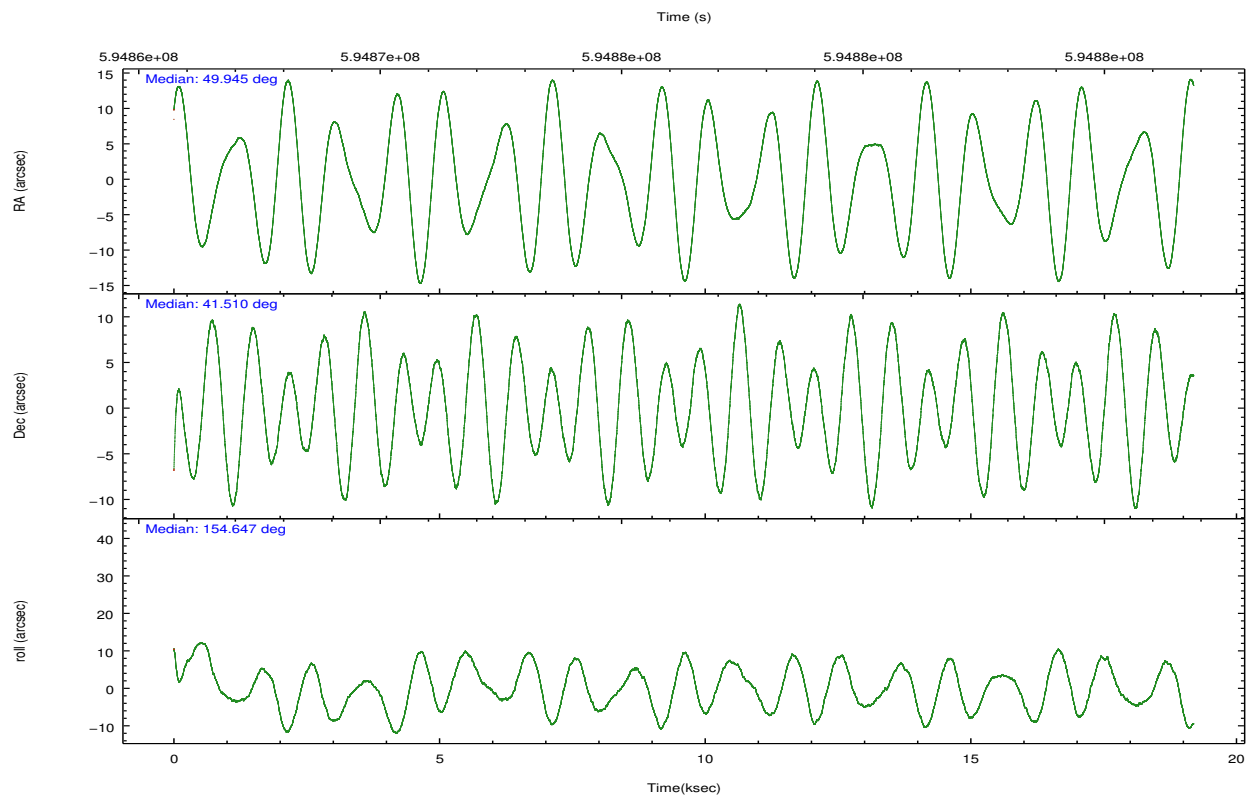
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	3533	5235	34693	64185	9074
	14%	19%	52%	22%	22%
grade 1 events	13	14	78	763	23
	0%	0%	0%	0%	0%
grade 2 events	760	1011	5262	66476	2615
	3%	3%	7%	23%	6%
grade 3 events	483	566	1749	29367	1051
	1%	2%	2%	10%	2%
grade 4 events	488	569	1727	28368	1026
	2%	2%	2%	9%	2%
grade 5 events	642	838	949	7268	1179
	2%	3%	1%	2%	2%
grade 6 events	495	612	1860	68867	2570
	2%	2%	2%	23%	6%
grade 7 events	17899	17903	19490	21958	23430
	73%	66%	29%	7%	57%

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	49.981203	49.9447373101224	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	41.512073	41.50947576212746	Subarray start row	449	449
[deg] Pointing Roll	154.479874	154.6606728381892	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)	594866877.184000	594865905.0639499			
Observation start date	2016-11-07T00:46:49	2016-11-07T00:31:45			
[s] Observation end time (MET)	594885877.184000	594886910.90267			
Observation end date	2016-11-07T06:03:29	2016-11-07T06:21:50			
Read mode	TIMED	TIMED			

2.3 Aspect



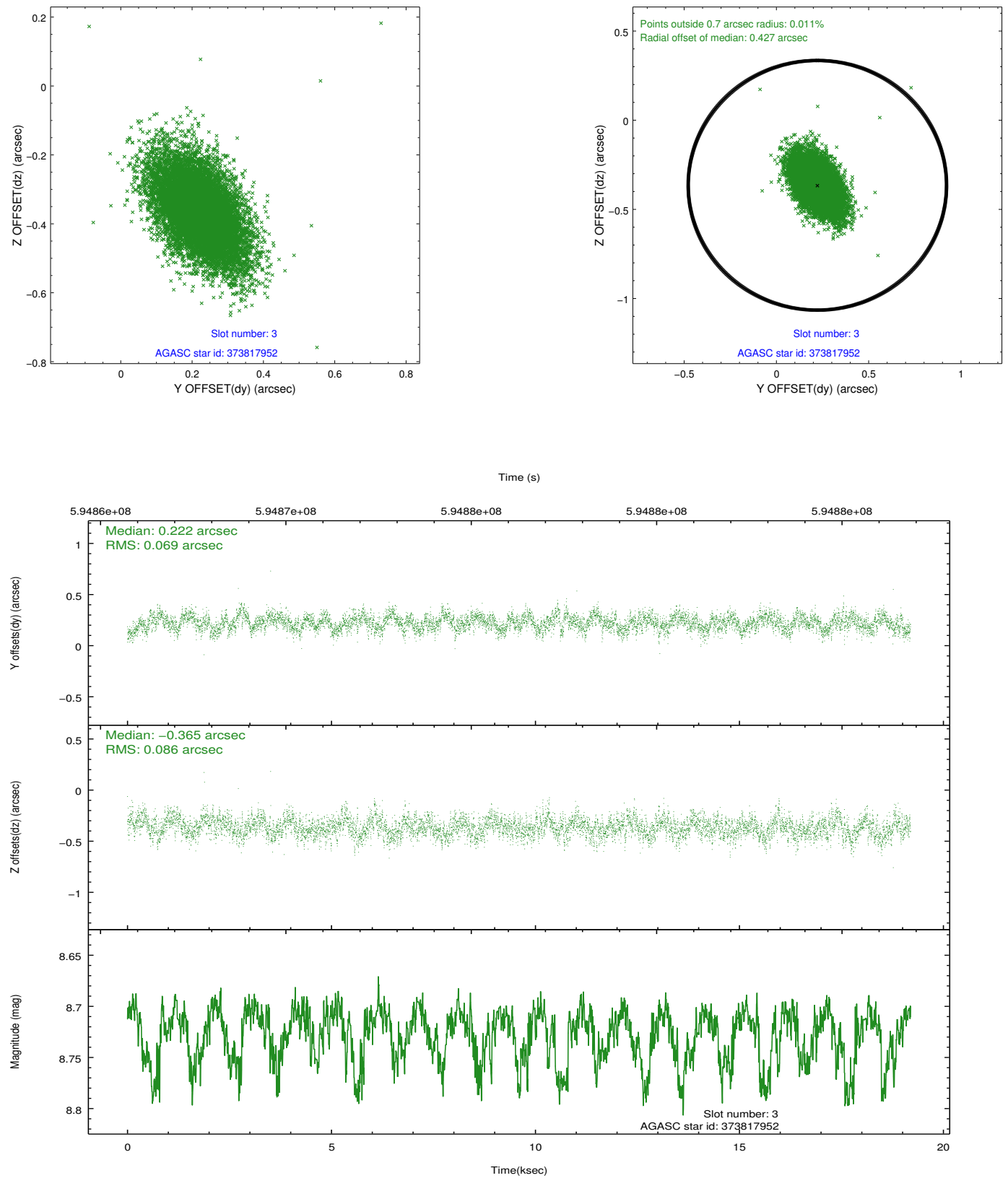


Slot Statistics

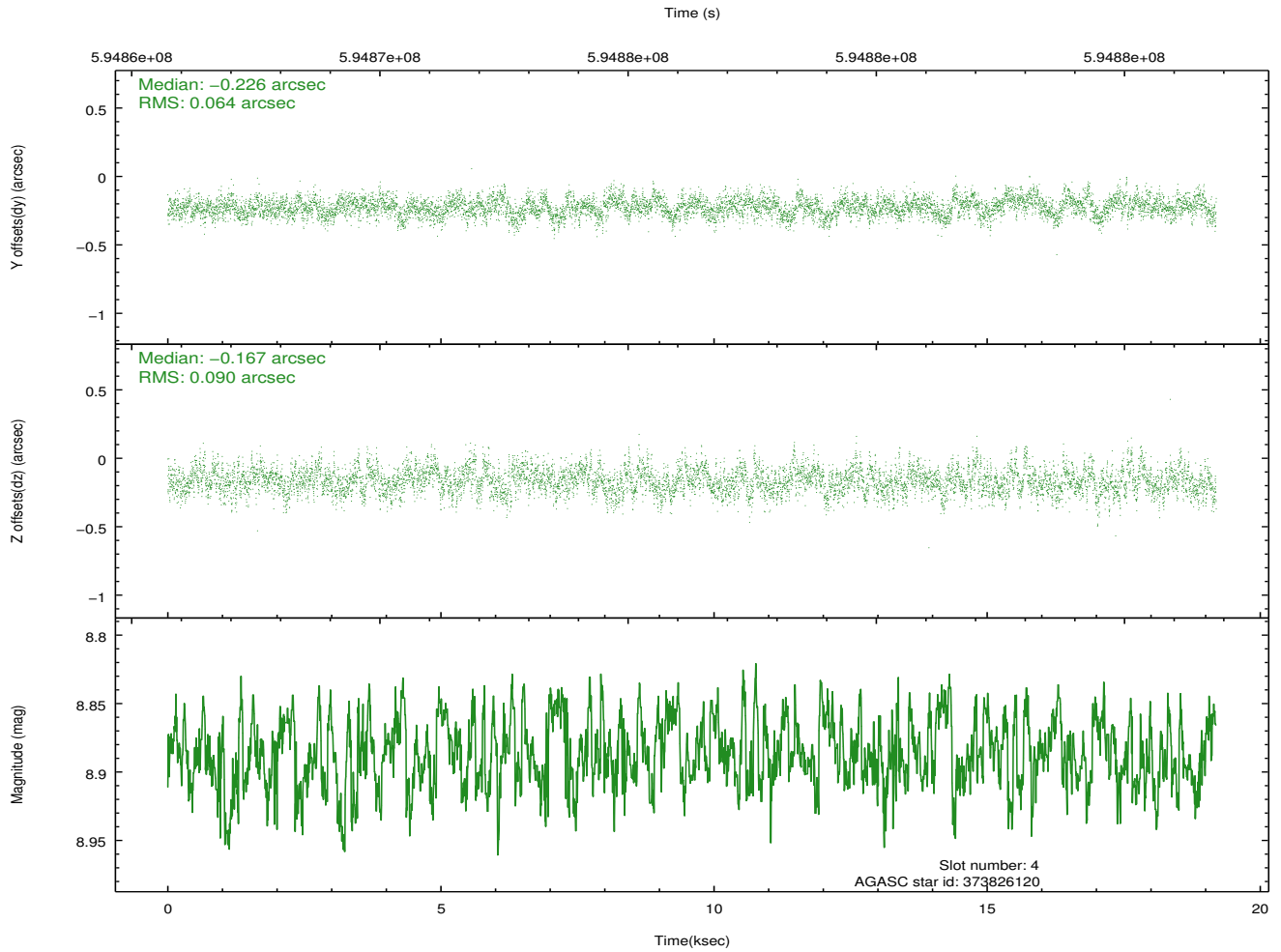
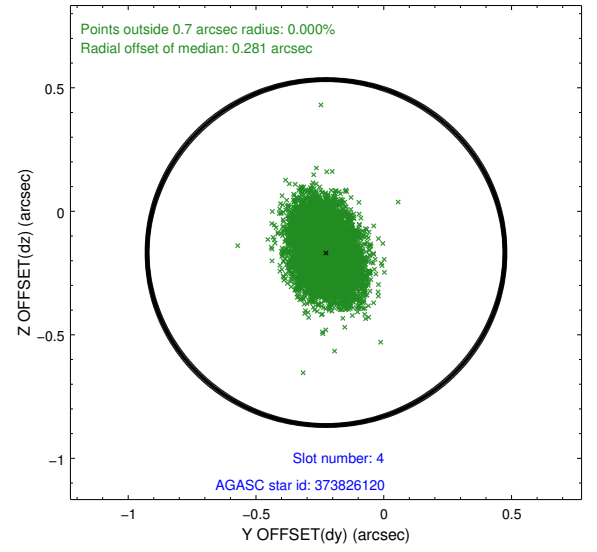
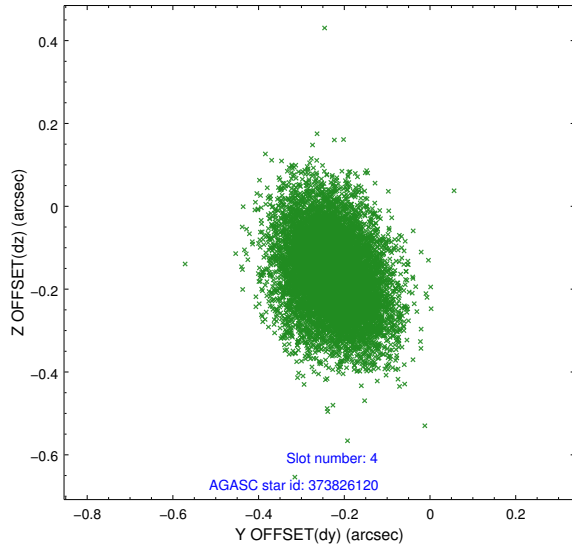
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.10	4682	-0.256	-0.141	0.014	0.019	0.000000	0.000000	-774.03	-1741.94
1	FID		ACIS-S-4	7.22	4682	0.524	0.161	0.017	0.031	0.000000	0.000000	2139.91	166.68
2	FID		ACIS-S-5	7.21	4682	-0.302	-0.011	0.010	0.019	0.000000	0.000000	-1826.69	160.34
3	GUIDE	used	373817952	8.72	9355	0.222	-0.365	0.114	0.196	49.913424	40.978510	-661.32	1812.56
4	GUIDE	used	373826120	8.89	9359	-0.226	-0.167	0.115	0.198	49.738165	41.186341	89.18	1341.35
5	GUIDE	used	374352808	8.76	9350	-0.024	0.075	0.117	0.198	49.969955	42.208621	1108.13	-2249.21
6	GUIDE	used	374357808	8.65	9360	-0.206	0.104	0.142	0.224	49.921429	42.176083	1174.29	-2088.22
7	GUIDE	used	376057824	8.33	9360	0.231	0.357	0.128	0.206	50.665569	41.926280	-1008.08	-2141.43

2.4 Star Slots

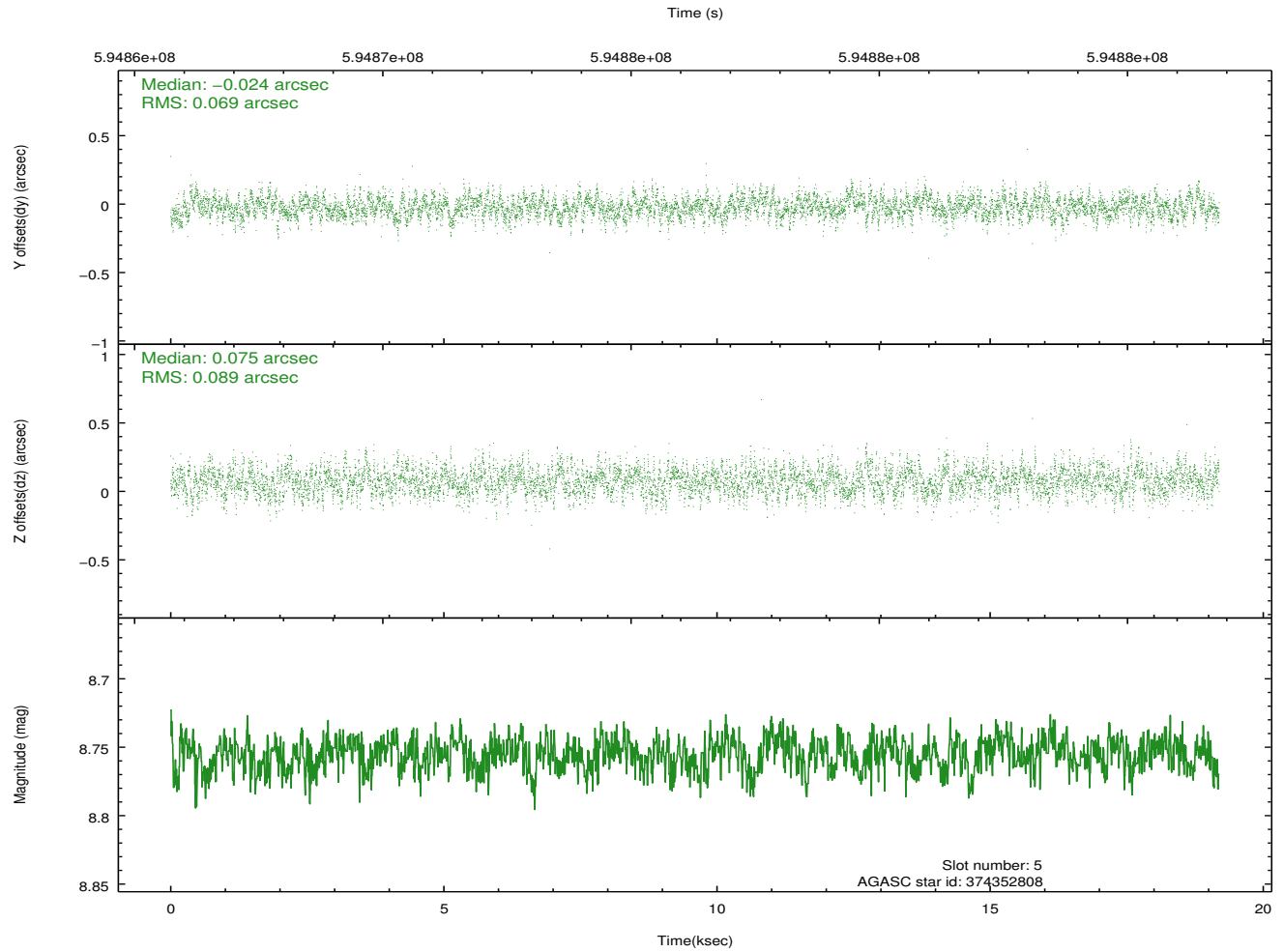
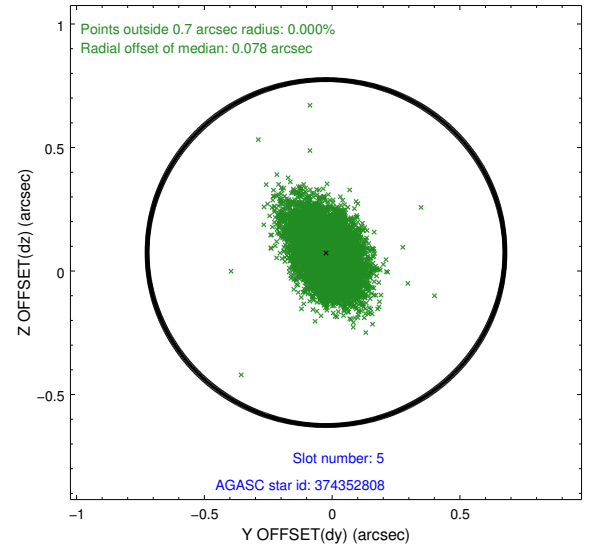
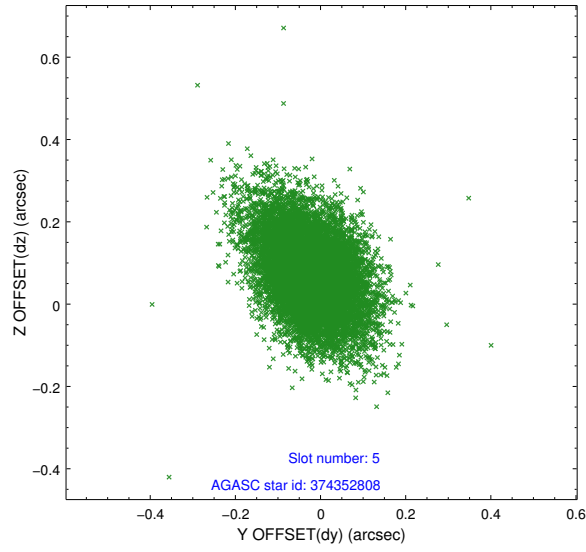
2.4.1 Slot 3



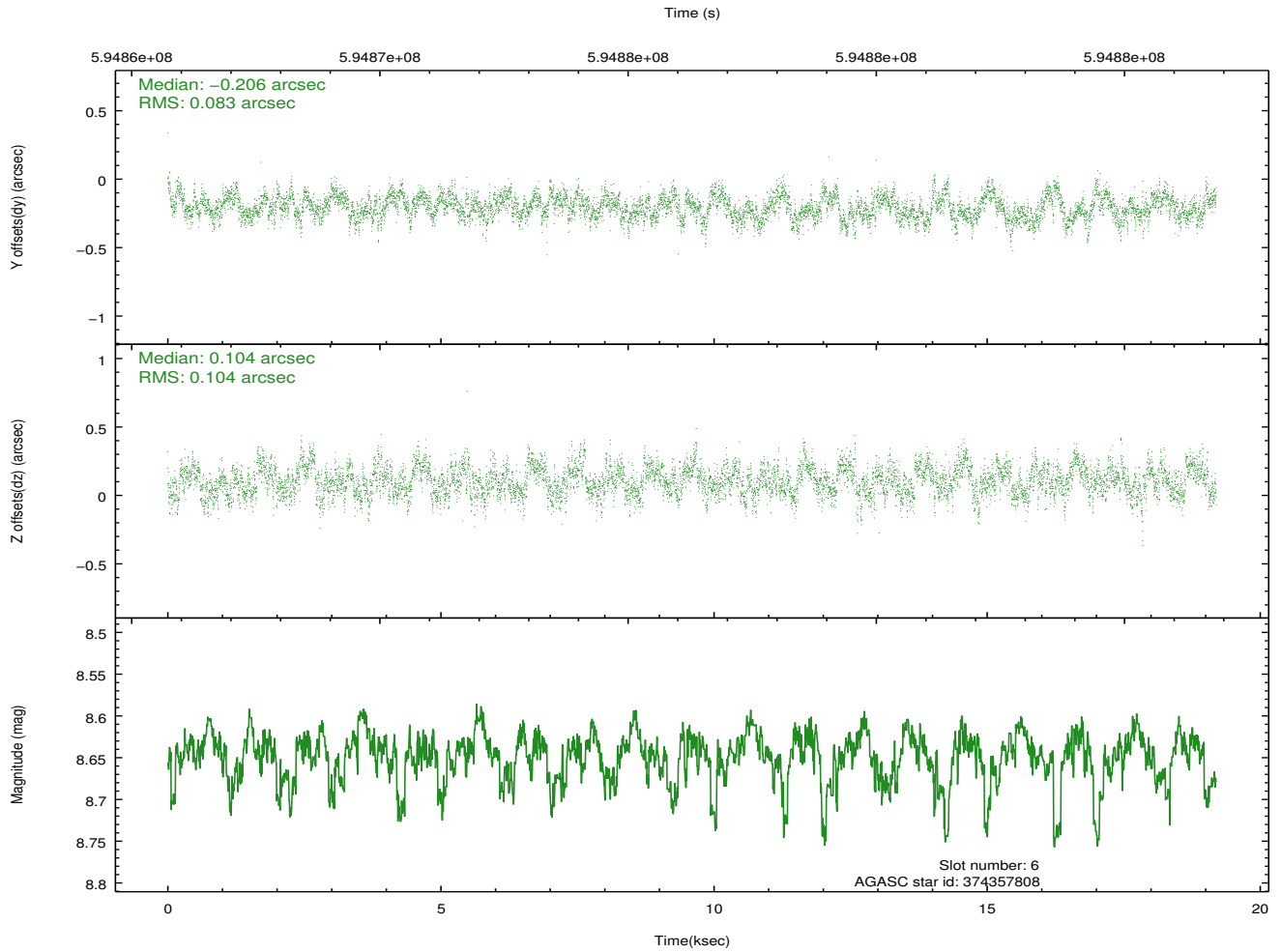
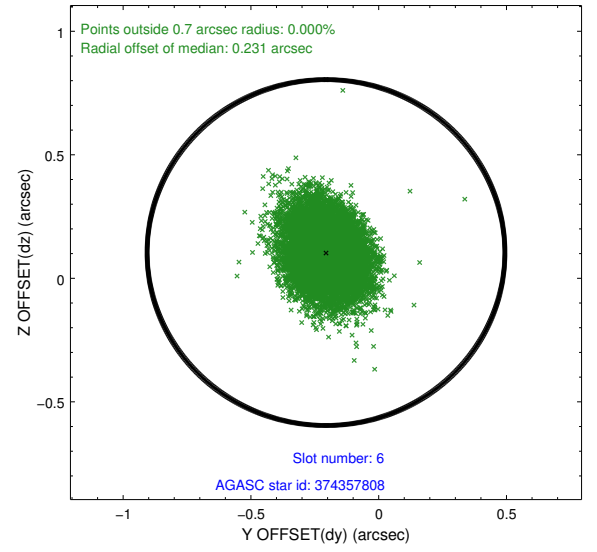
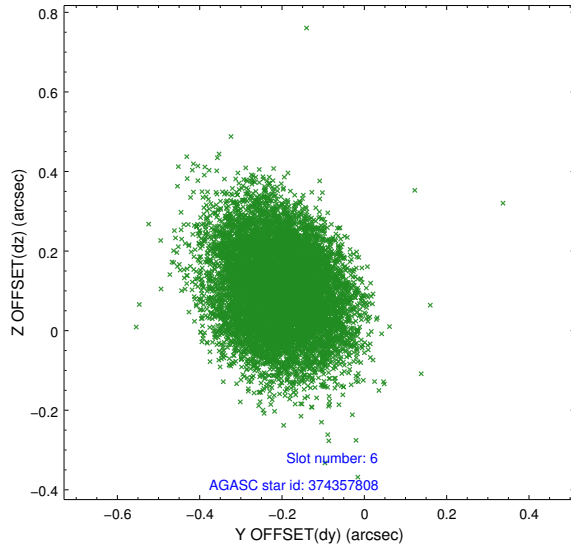
2.4.2 Slot 4



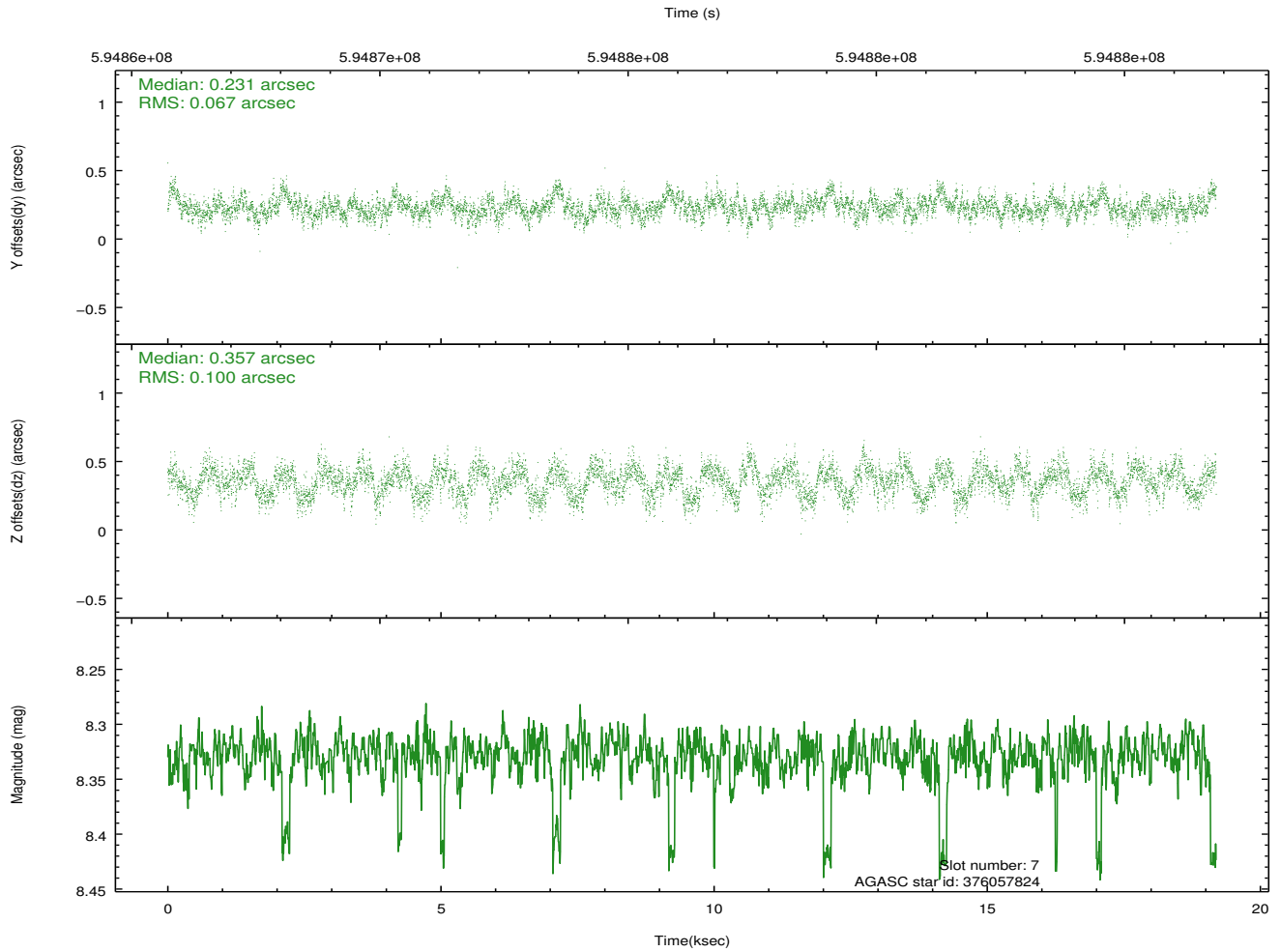
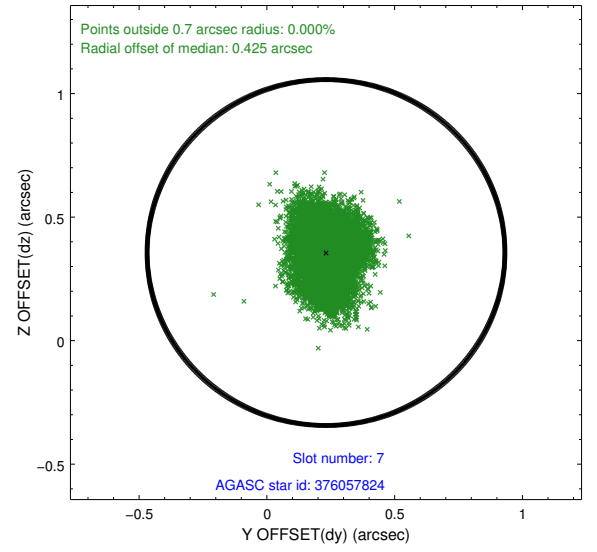
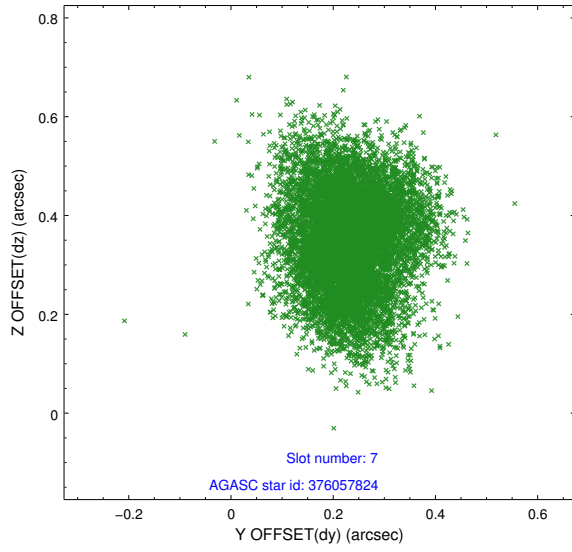
2.4.3 Slot 5



2.4.4 Slot 6

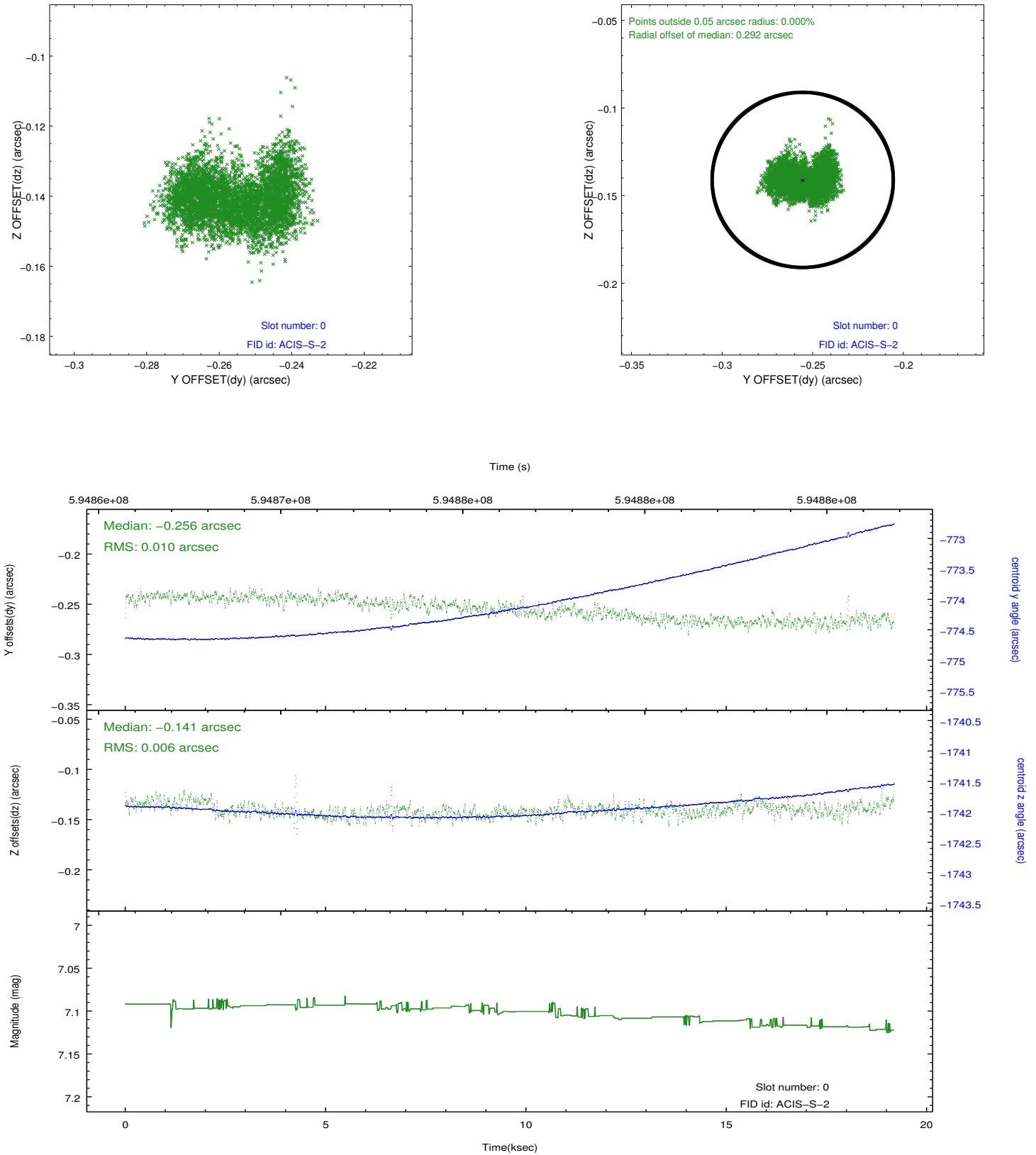


2.4.5 Slot 7

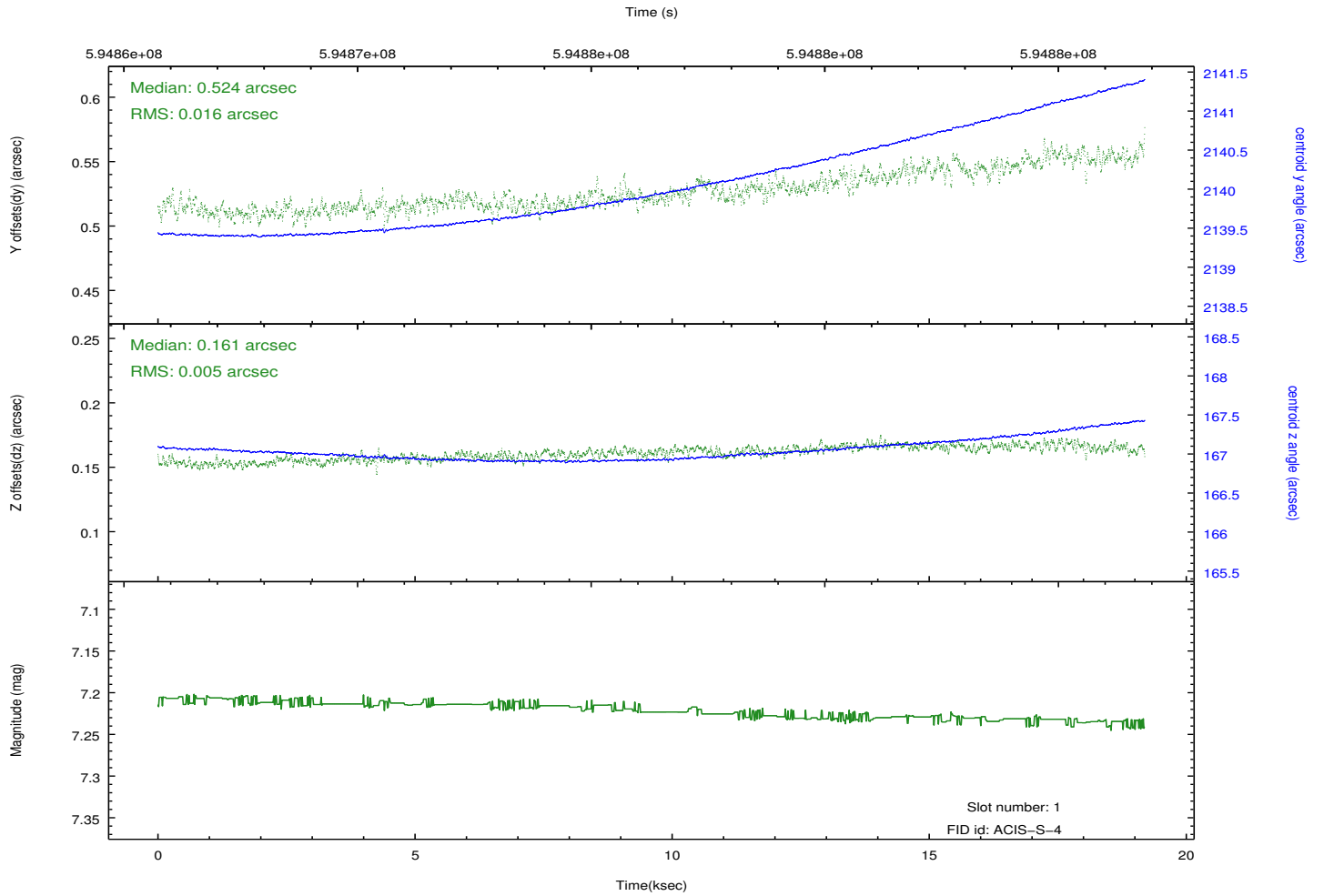
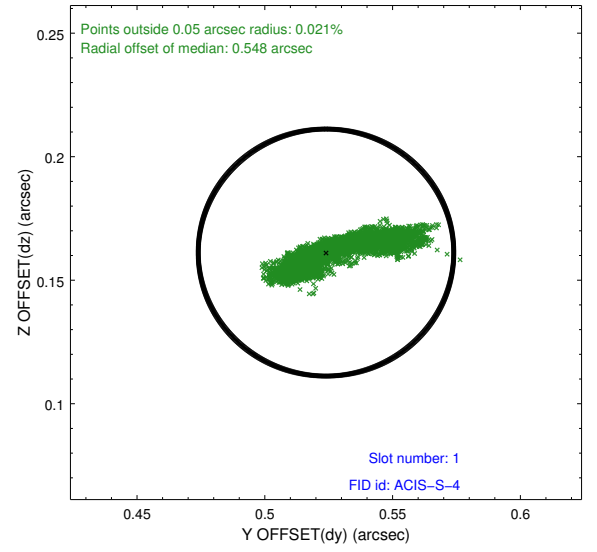
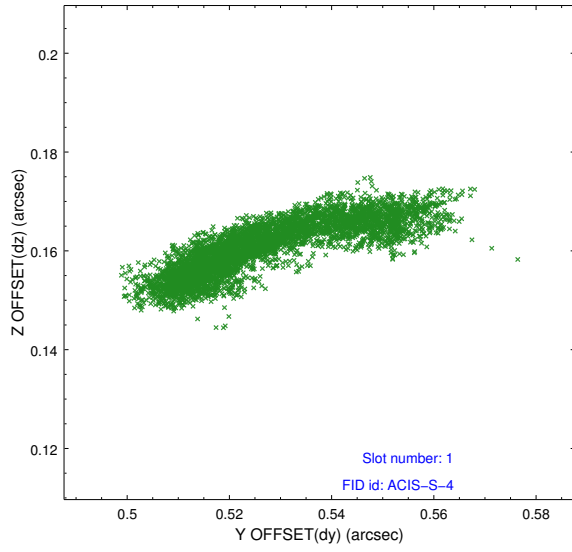


2.5 FID Slots

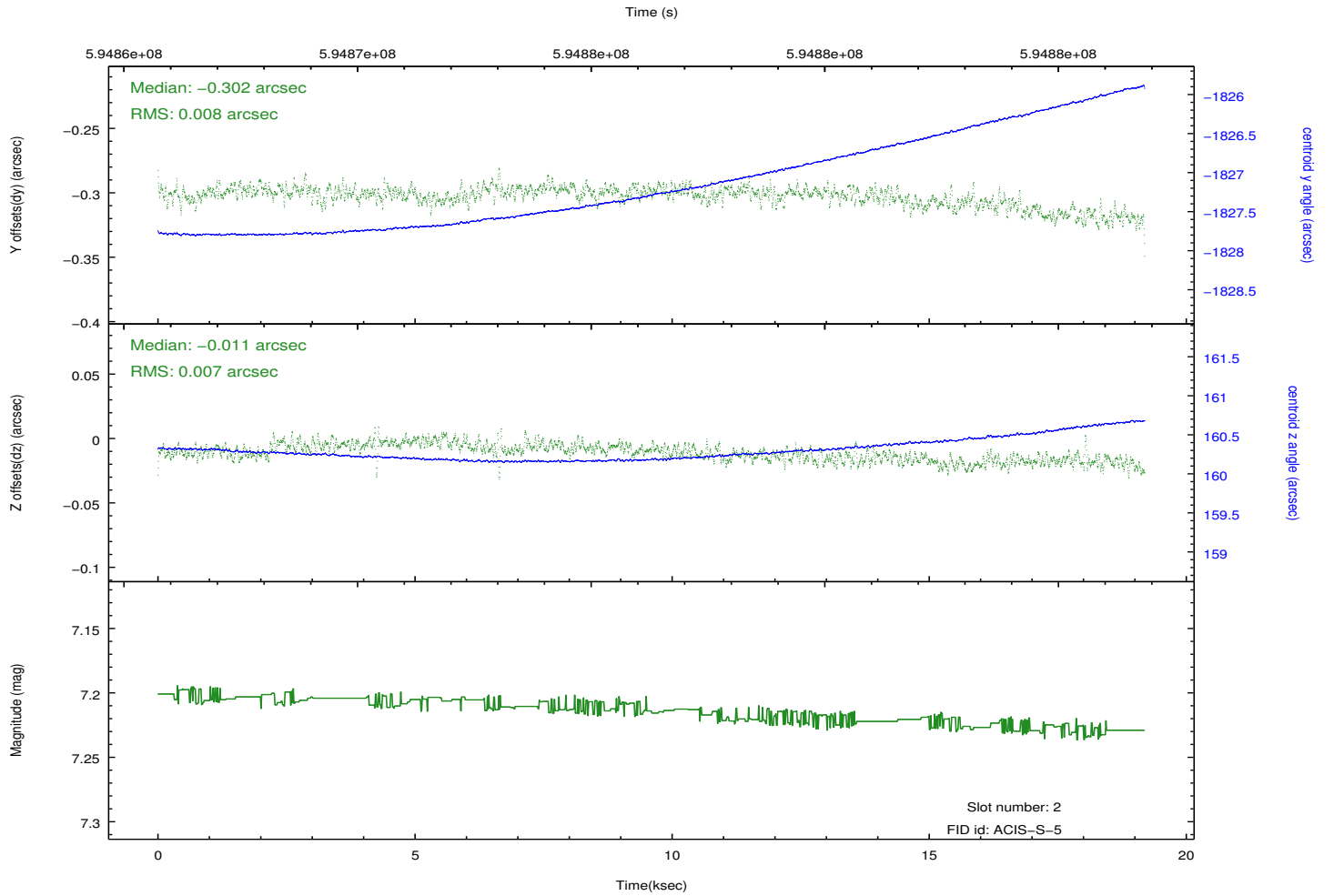
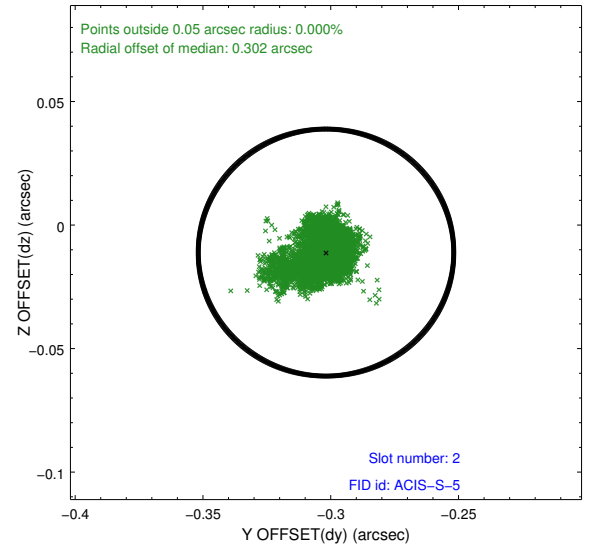
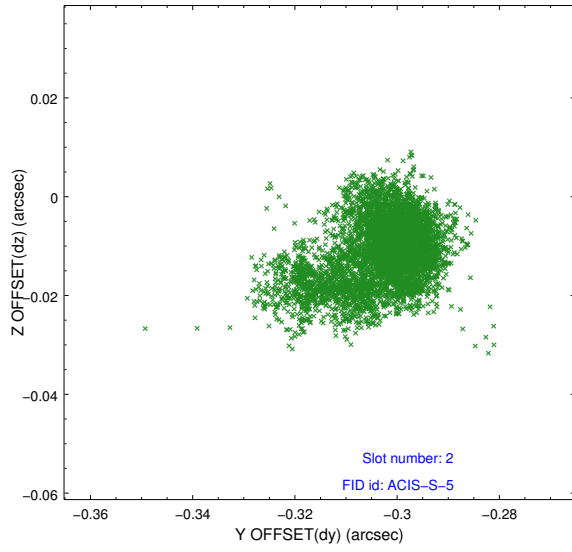
2.5.1 Slot 0



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)	2016.11.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.069216954947

A.2 Comments