

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18275 - L2 Version 2
Chandra X-Ray Center

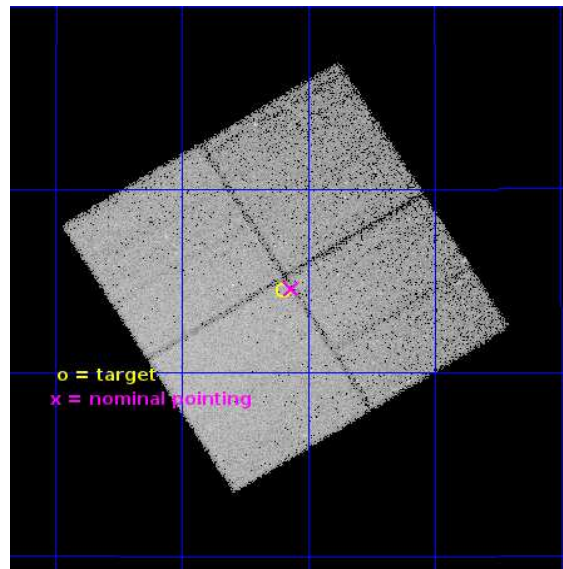
L2 Processing Date : Mar 18 2016

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1 Front

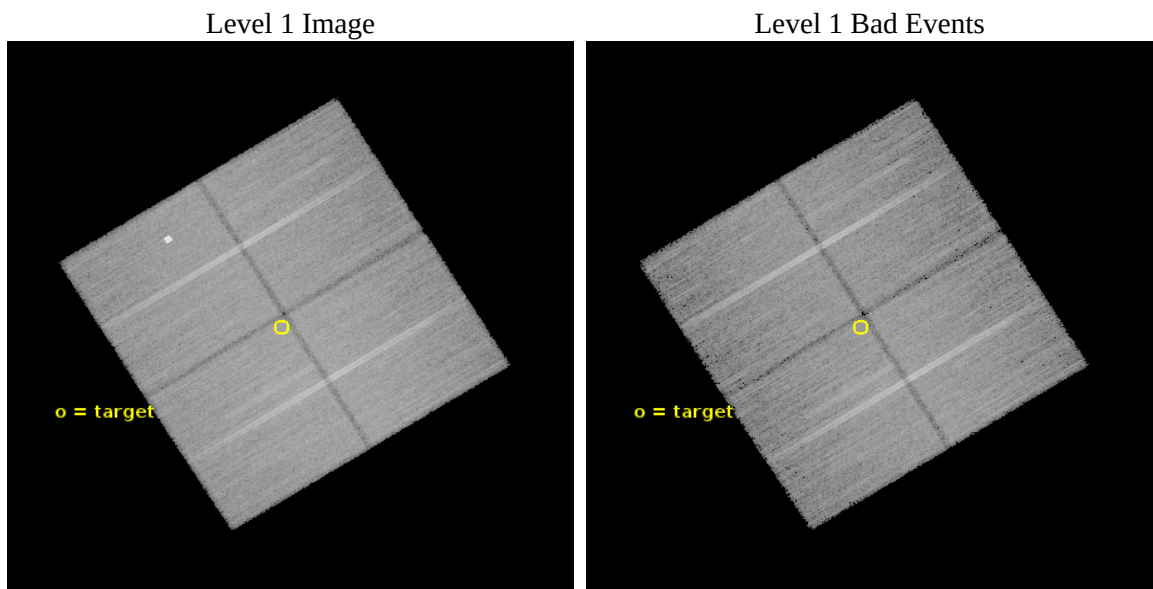
seq_num	801595	Sequence number
obs_id	18275	Observation id
title	Probing ICM on mean free path scales	Proposal title
observer	Dr Irina Zhuravleva	Principal investigator
object	Coma cluster	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	194.649583	Observer's specified target RA [deg]
dec_targ	28.074806	Observer's specified target Dec [deg]
ra_nom	194.64148807194	Nominal RA [deg]
dec_nom	28.076139138906	Nominal Dec [deg]
roll_nom	148.2125102873	Nominal Roll [deg]
revision	2	Processing version of data
ontime	50083.600385308	Sum of GTIs [s]
livetime	49429.221275264	Livetime [s]
ontime0	50083.600385308	Sum of GTIs [s]
ontime1	50083.600385308	Sum of GTIs [s]
ontime2	50077.318254948	Sum of GTIs [s]
ontime3	50083.600385308	Sum of GTIs [s]
l2events	257094	Number of level 2 events



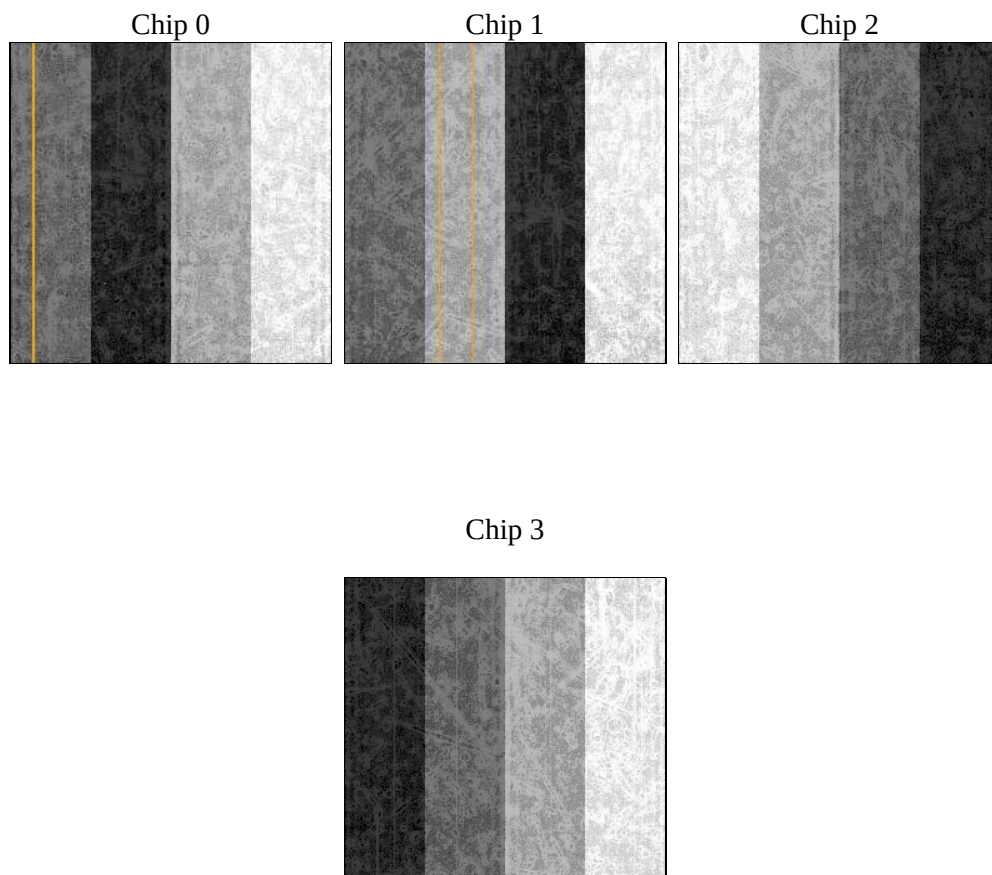
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	50000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	50083.600385308	Sum of GTIs [s]
caldsver	4.7.0	 	ontime0	50083.600385308	Sum of GTIs [s]
date	2016-03-18T21:41:31	Date and time of file creation	ontime1	50083.600385308	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	50077.318254948	Sum of GTIs [s]
			ontime3	50083.600385308	Sum of GTIs [s]
			l1events	1322398	Number of level 1 events

2.1.4 Events

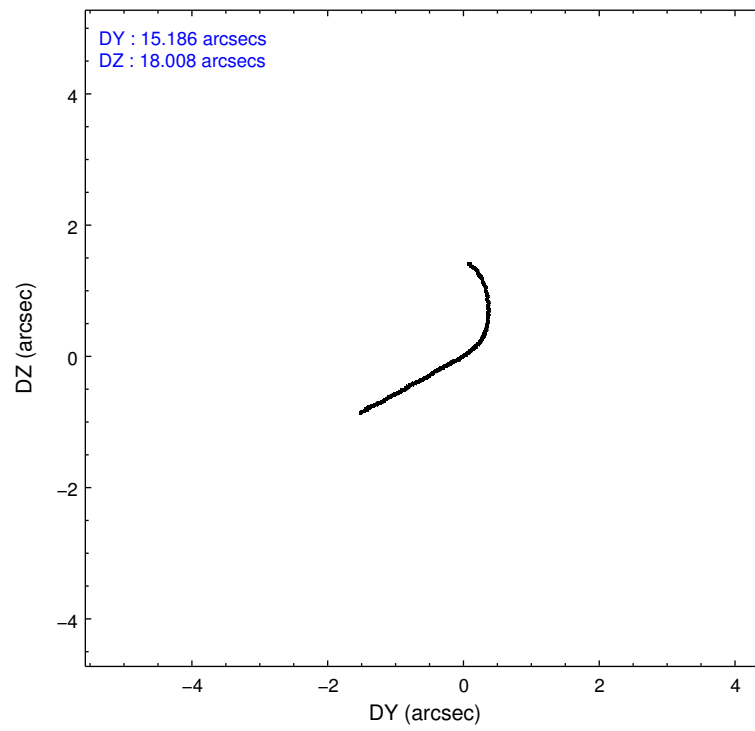
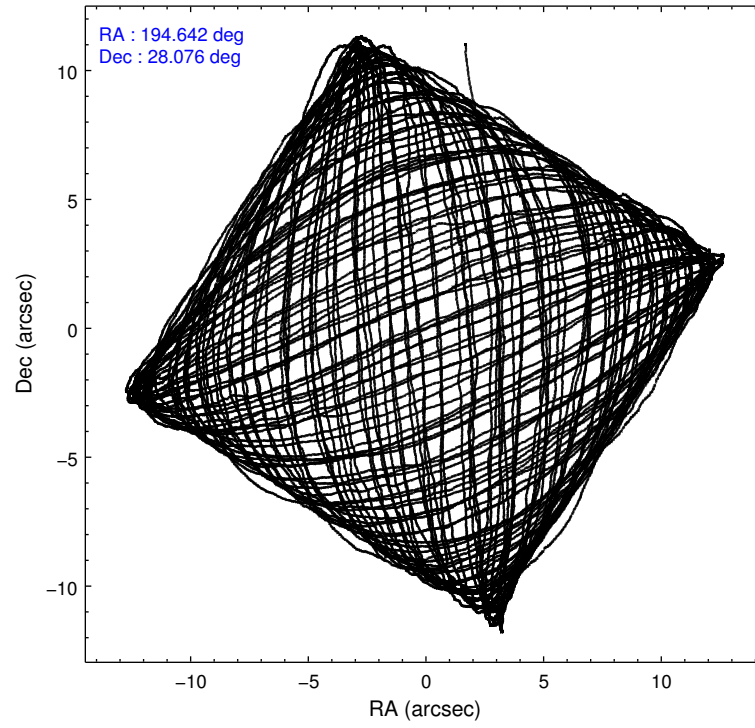
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	292796	332957	336834	359811
rejected events	240565	241679	278709	267883
rejected %	82%	72%	82%	74%

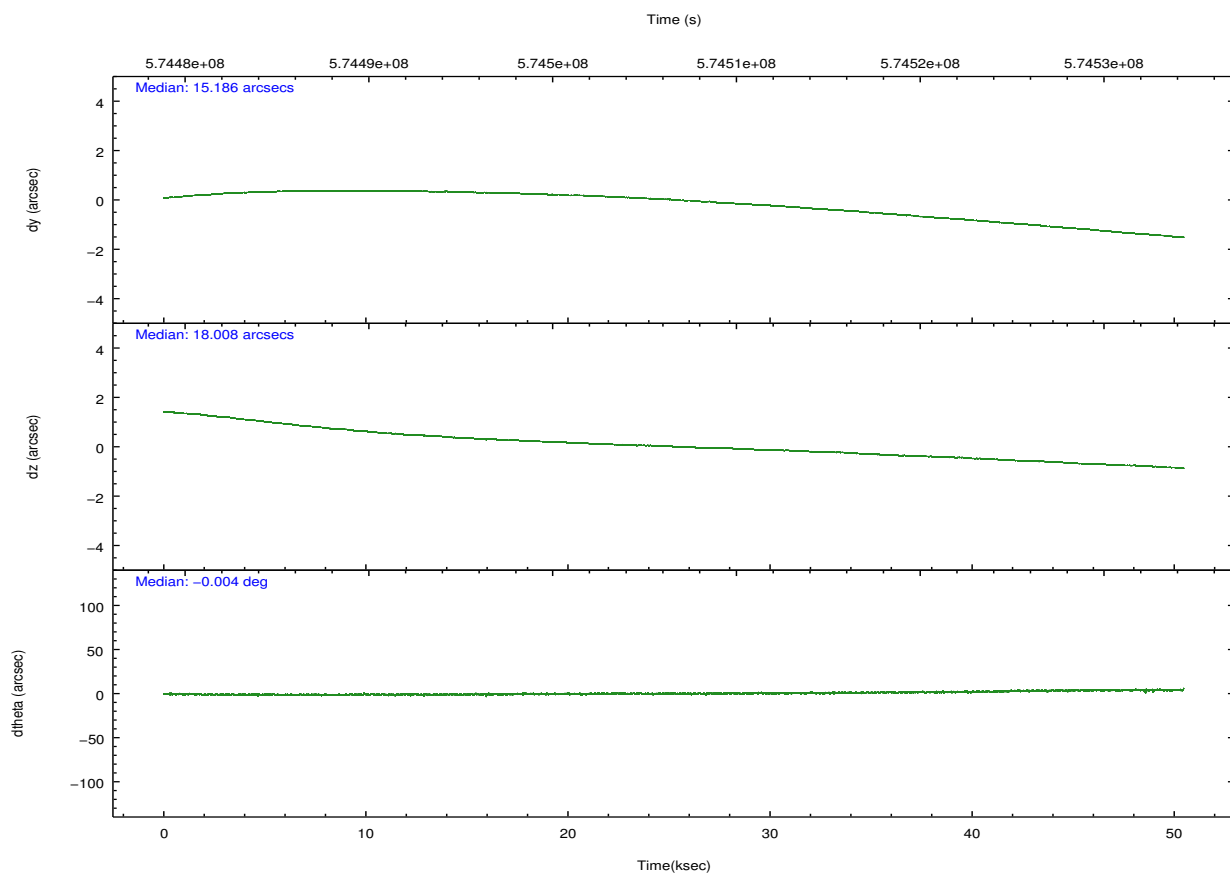
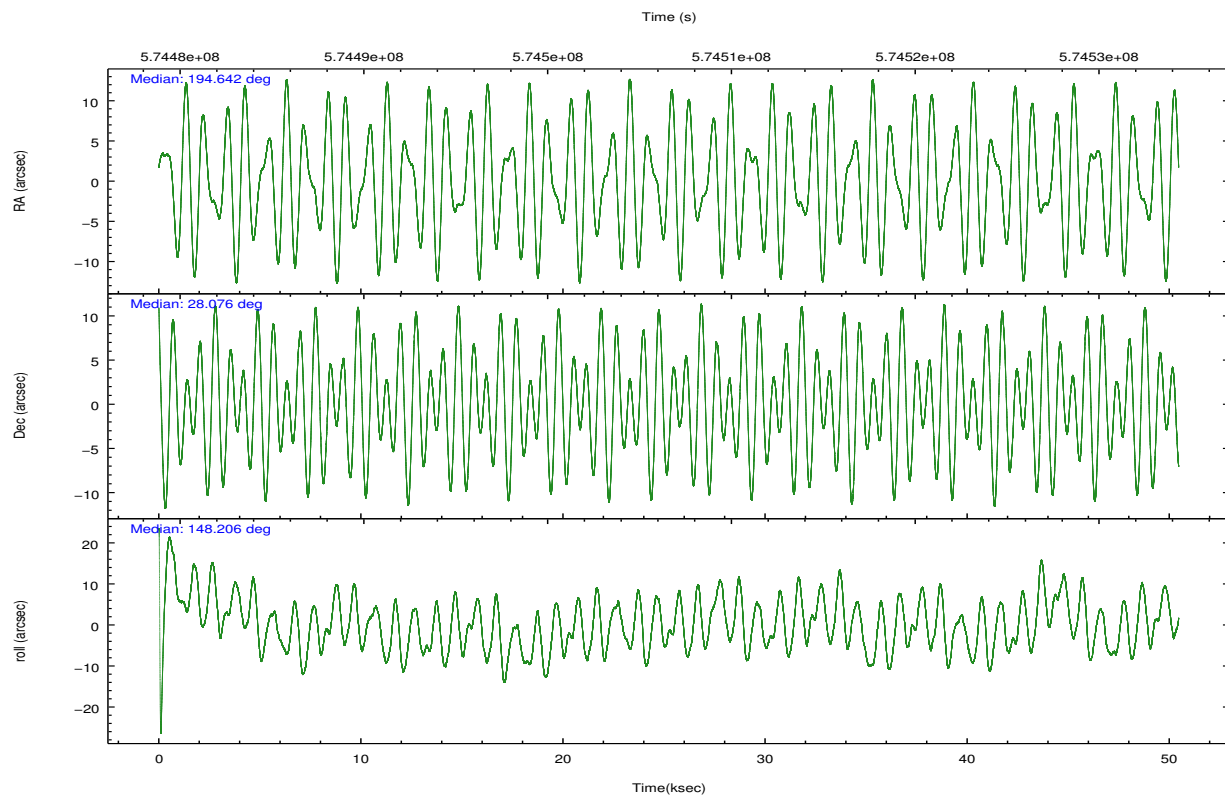
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	26482	55918	31668	58546
	9%	16%	9%	16%
grade 1 events	202	348	245	398
	0%	0%	0%	0%
grade 2 events	10138	14820	10674	13494
	3%	4%	3%	3%
grade 3 events	4094	5204	4163	5556
	1%	1%	1%	1%
grade 4 events	3922	5043	4205	5502
	1%	1%	1%	1%
grade 5 events	12706	13722	12005	14994
	4%	4%	3%	4%
grade 6 events	7599	10305	7421	8841
	2%	3%	2%	2%
grade 7 events	227653	227597	266453	252480
	77%	68%	79%	70%

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	194.672751	194.6414880719433	Subarray requested	NONE	NONE
[deg] Pointing Dec	28.075381	28.07613913890624	Alternating exposures requested	N	N
[deg] Pointing Roll	147.989092	148.2125102872967	[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)	574481812.184000	574480791.53176			
Observation start date	2016-03-16T02:15:44	2016-03-16T01:59:51			
[s] Observation end time (MET)	574531812.184000	574532631.93485			
Observation end date	2016-03-16T16:09:04	2016-03-16T16:23:51			
Read mode	TIMED	TIMED			

2.3 Aspect



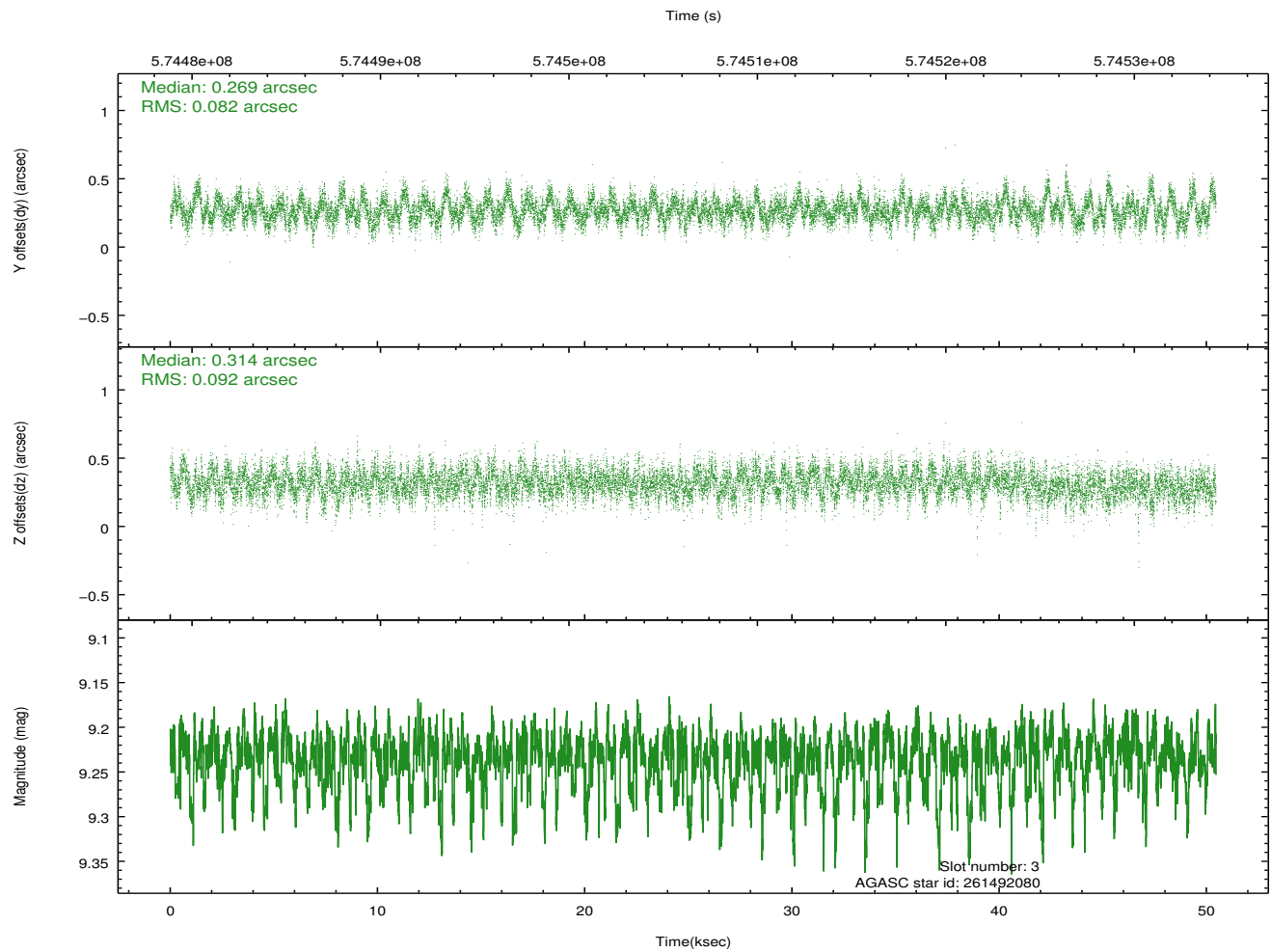
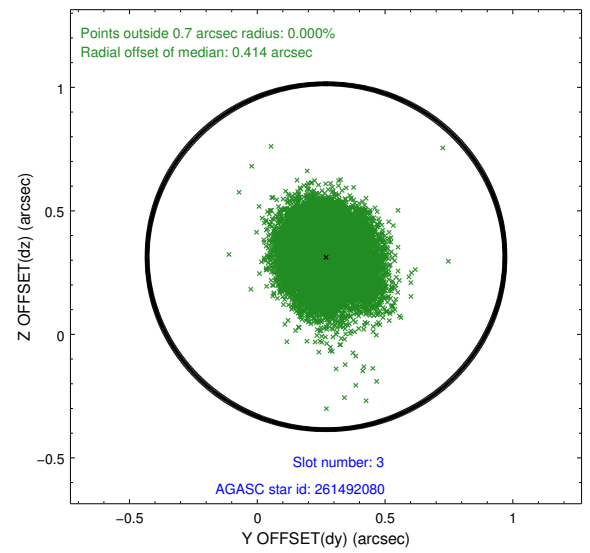
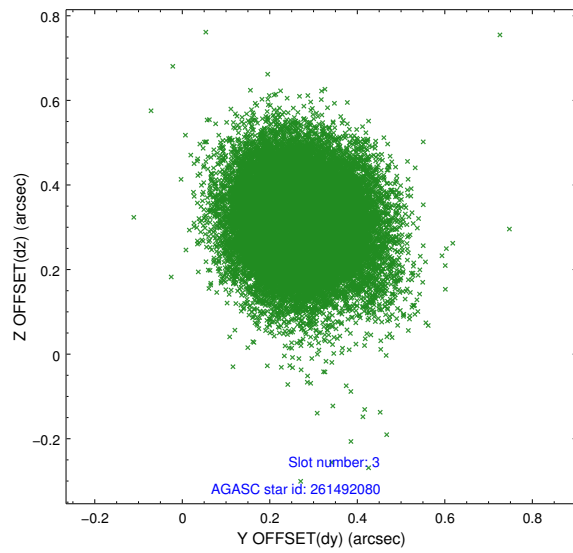


Slot Statistics

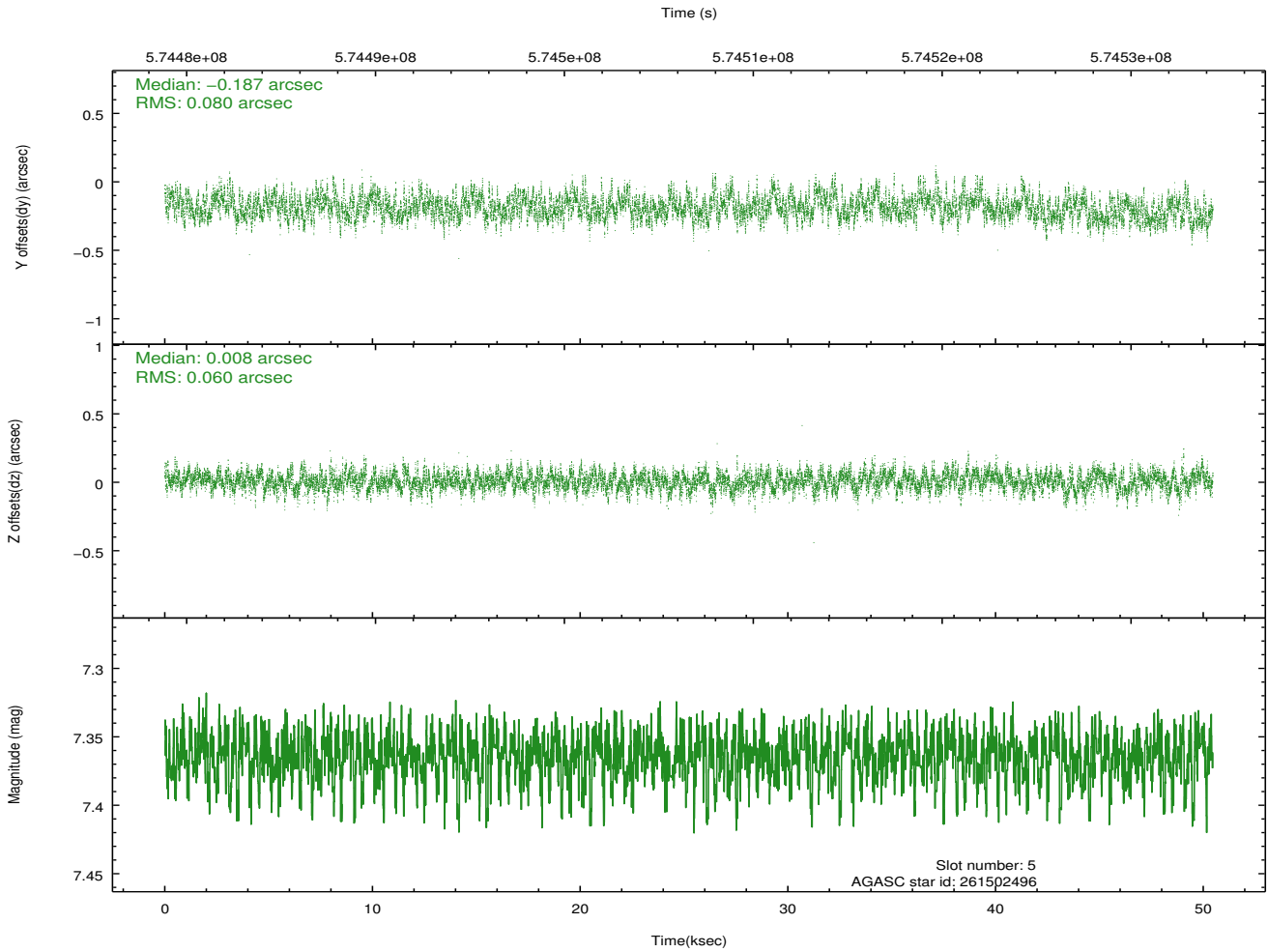
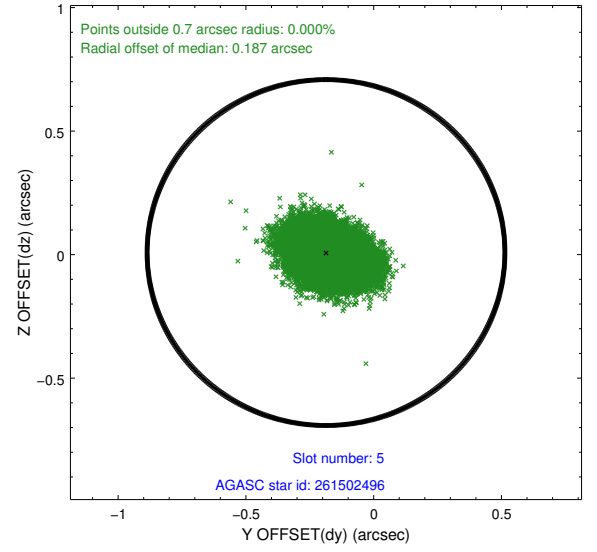
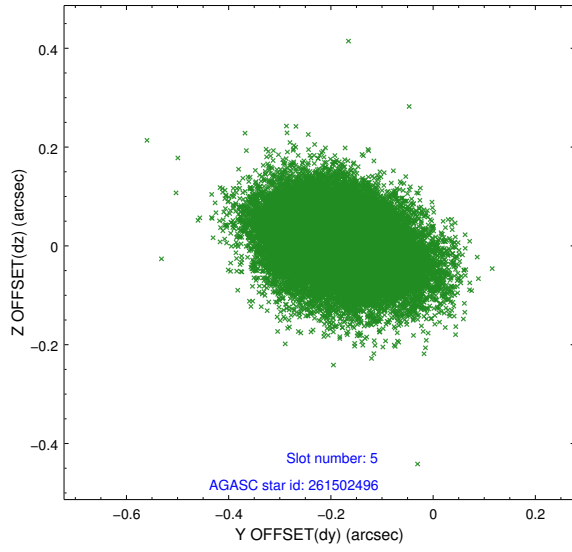
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.26	12308	0.079	-0.026	0.023	0.055	0.000000	0.000000	924.61	-841.77
1	FID		ACIS-I-5	7.26	12305	-0.350	0.044	0.012	0.018	0.000000	0.000000	-1824.01	1055.70
2	FID		ACIS-I-6	7.26	12308	0.183	0.053	0.018	0.049	0.000000	0.000000	390.18	1700.28
3	GUIDE	used	261492080	9.23	24412	0.269	0.314	0.130	0.212	194.976344	28.631585	249.48	-2206.96
4	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
5	GUIDE	used	261502496	7.36	24614	-0.187	0.008	0.106	0.175	194.887297	28.065668	-595.94	-332.14
6	GUIDE	used	261505808	9.32	24601	0.056	-0.104	0.174	0.277	193.710324	27.913269	2293.32	2107.92
7	GUIDE	used	261505760	9.77	24099	-0.149	-0.214	0.212	0.351	193.736841	27.992885	2371.72	1819.66

2.4 Star Slots

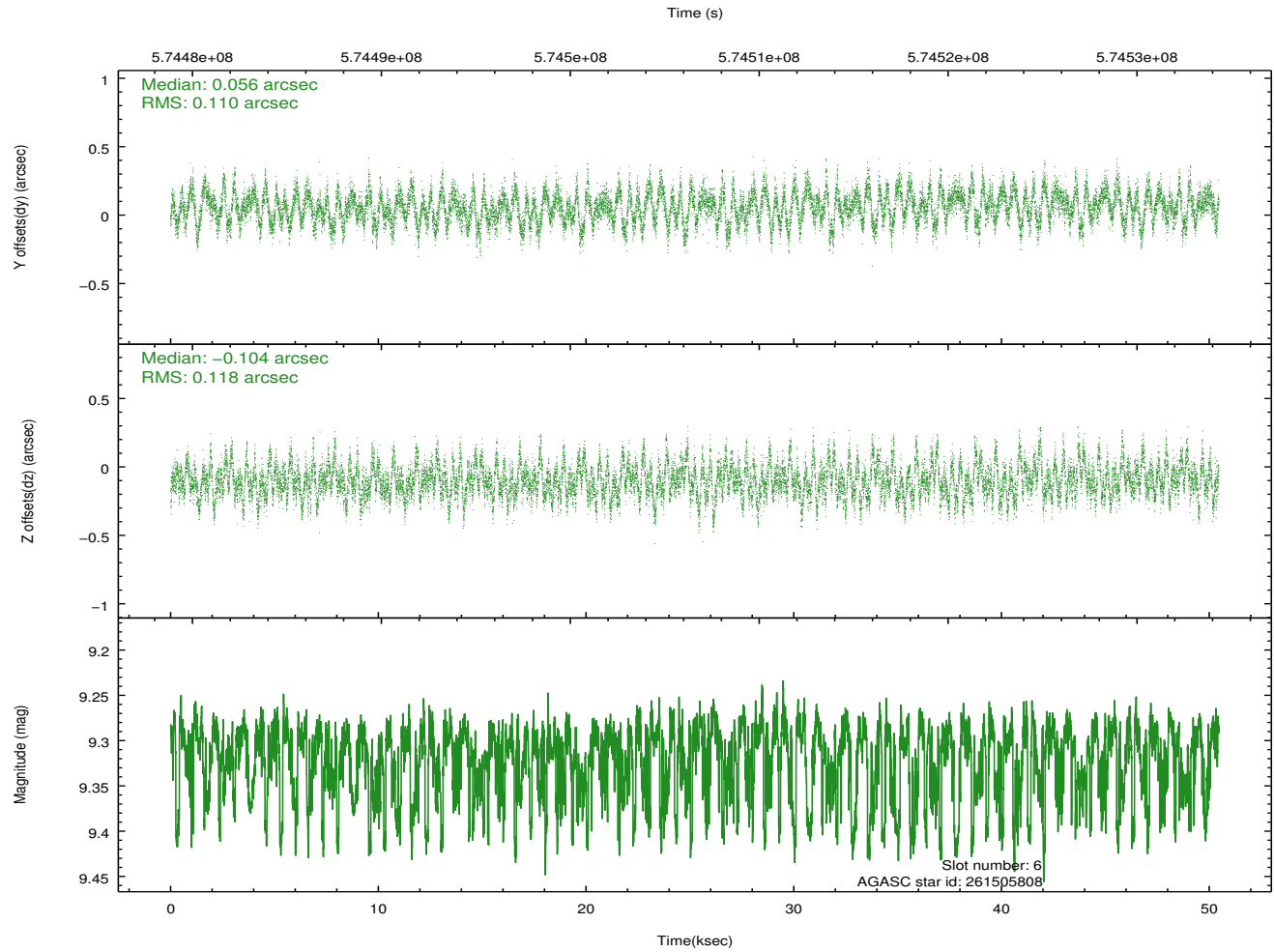
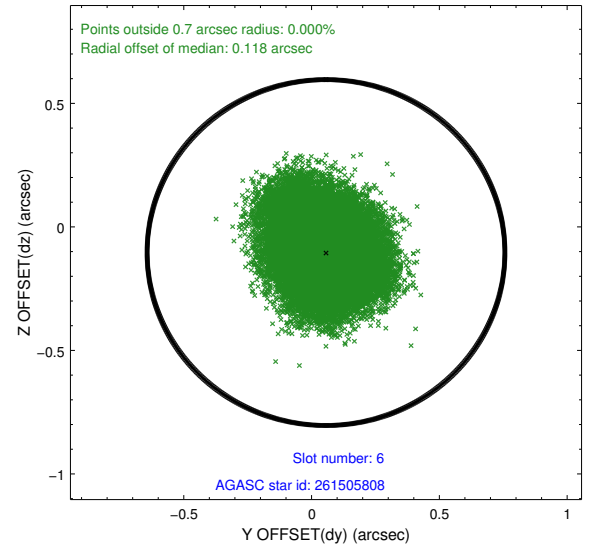
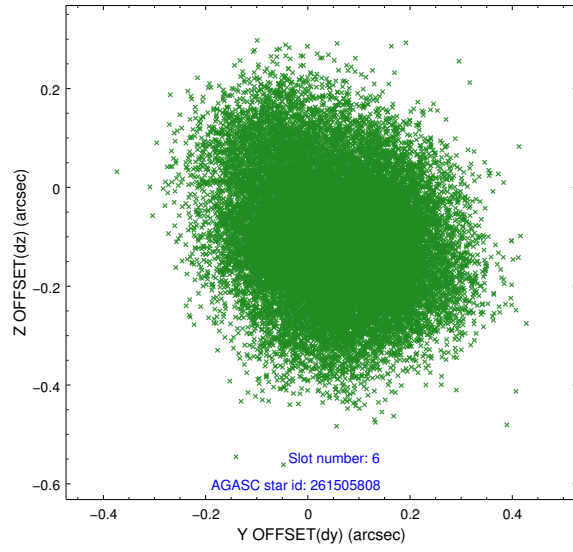
2.4.1 Slot 3



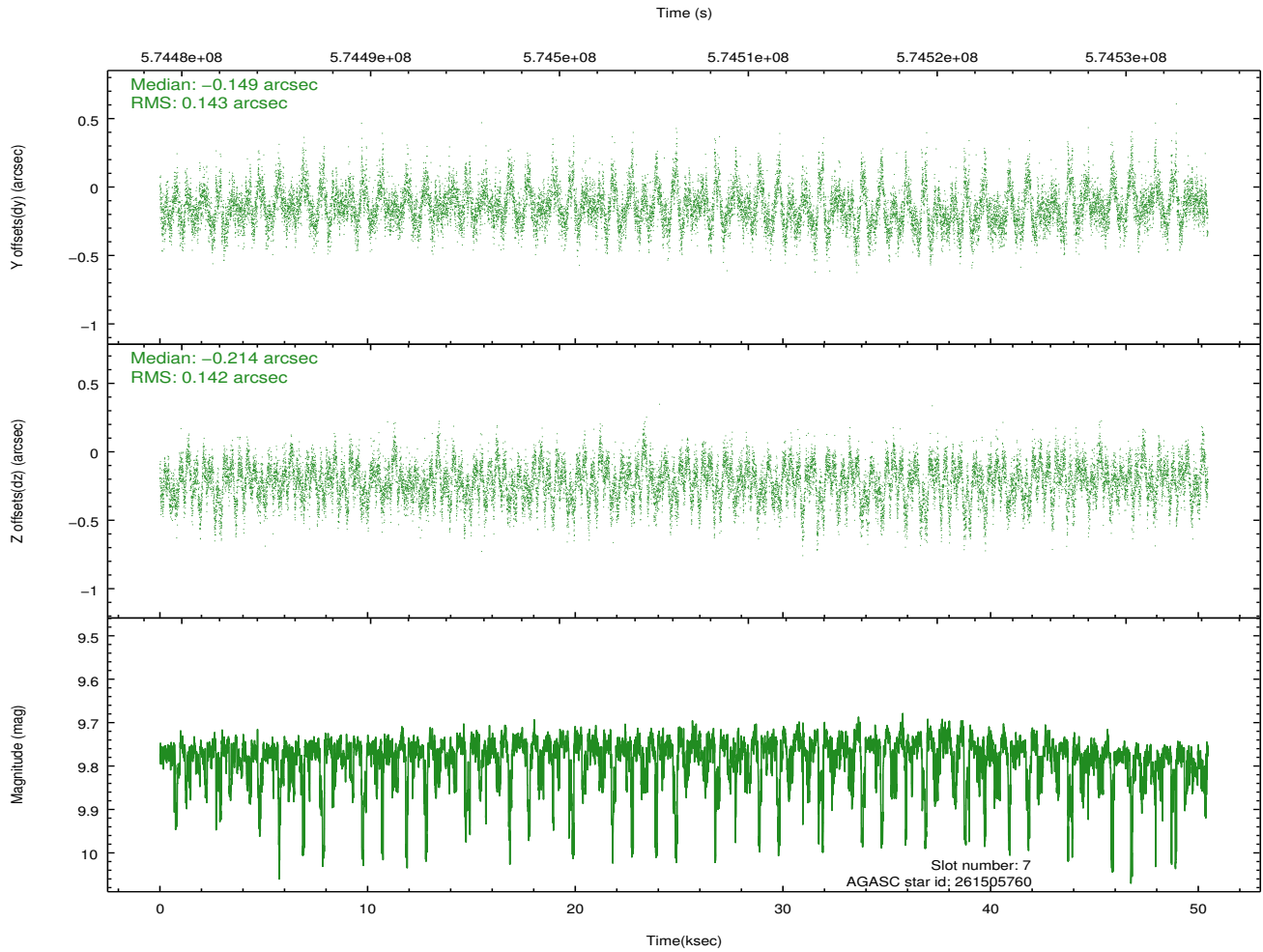
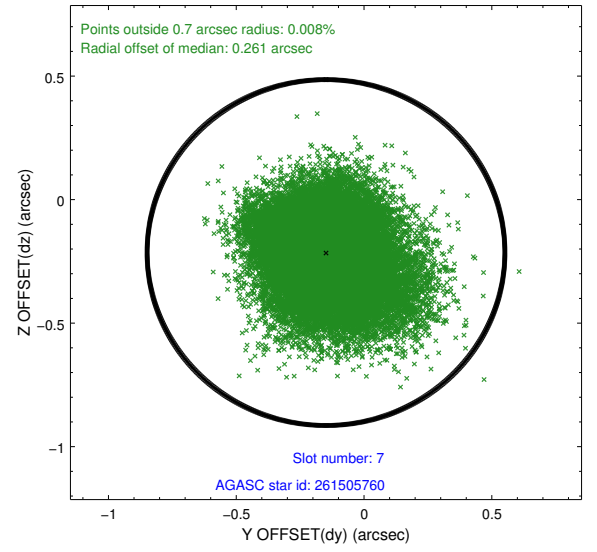
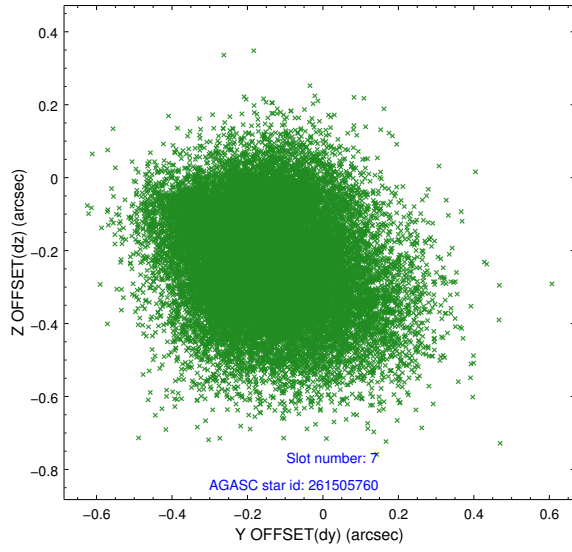
2.4.2 Slot 5



2.4.3 Slot 6

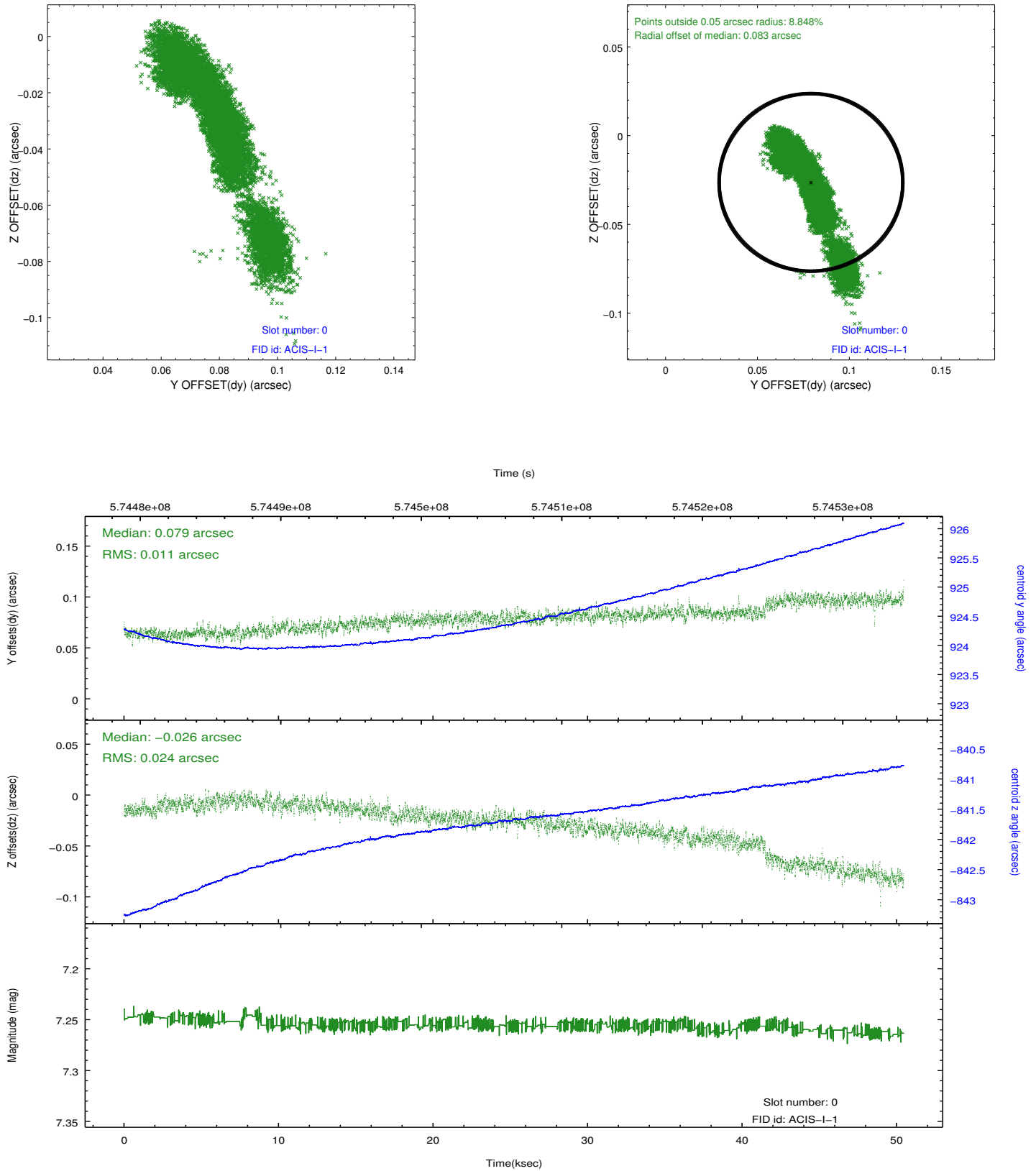


2.4.4 Slot 7

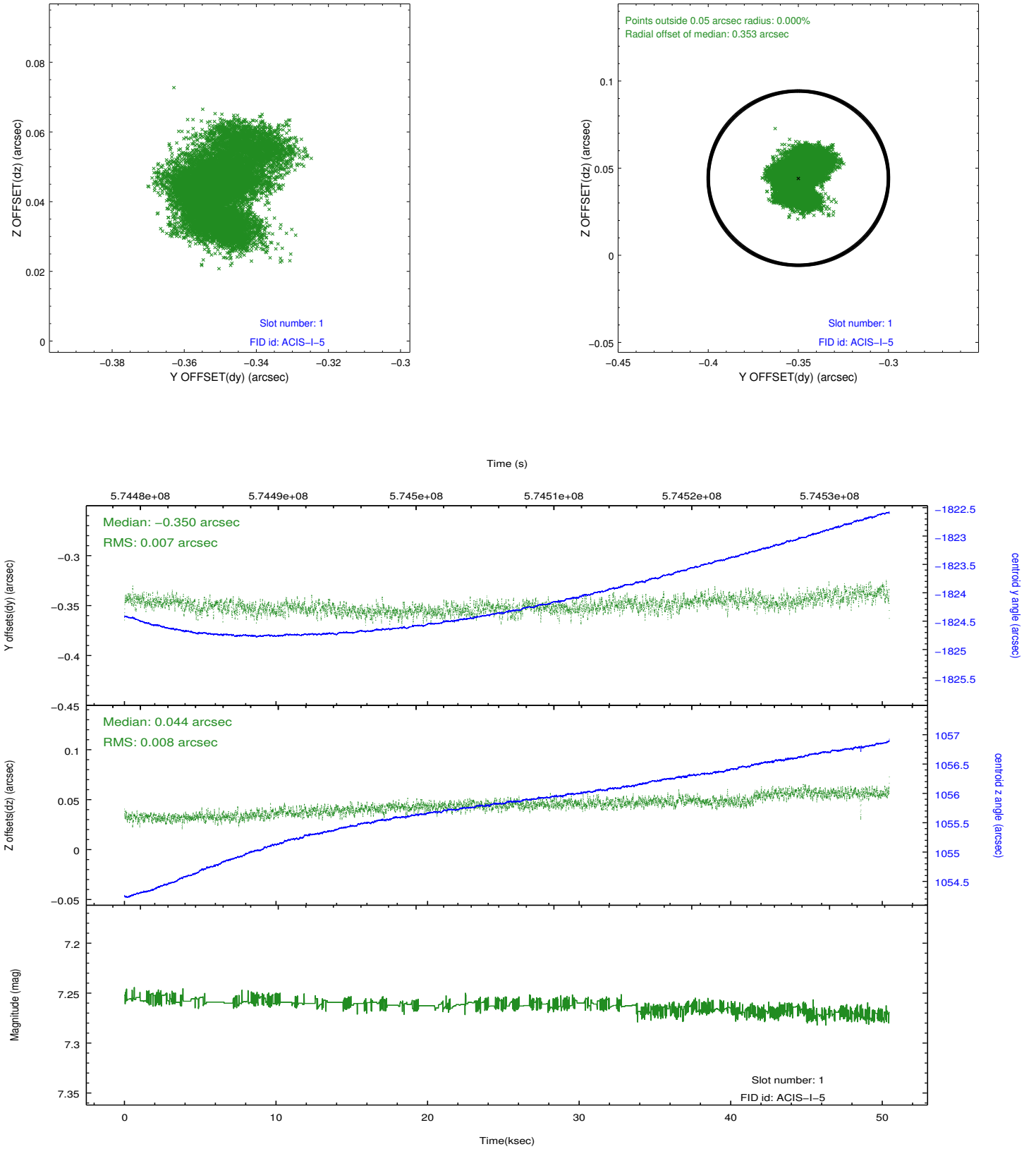


2.5 FID Slots

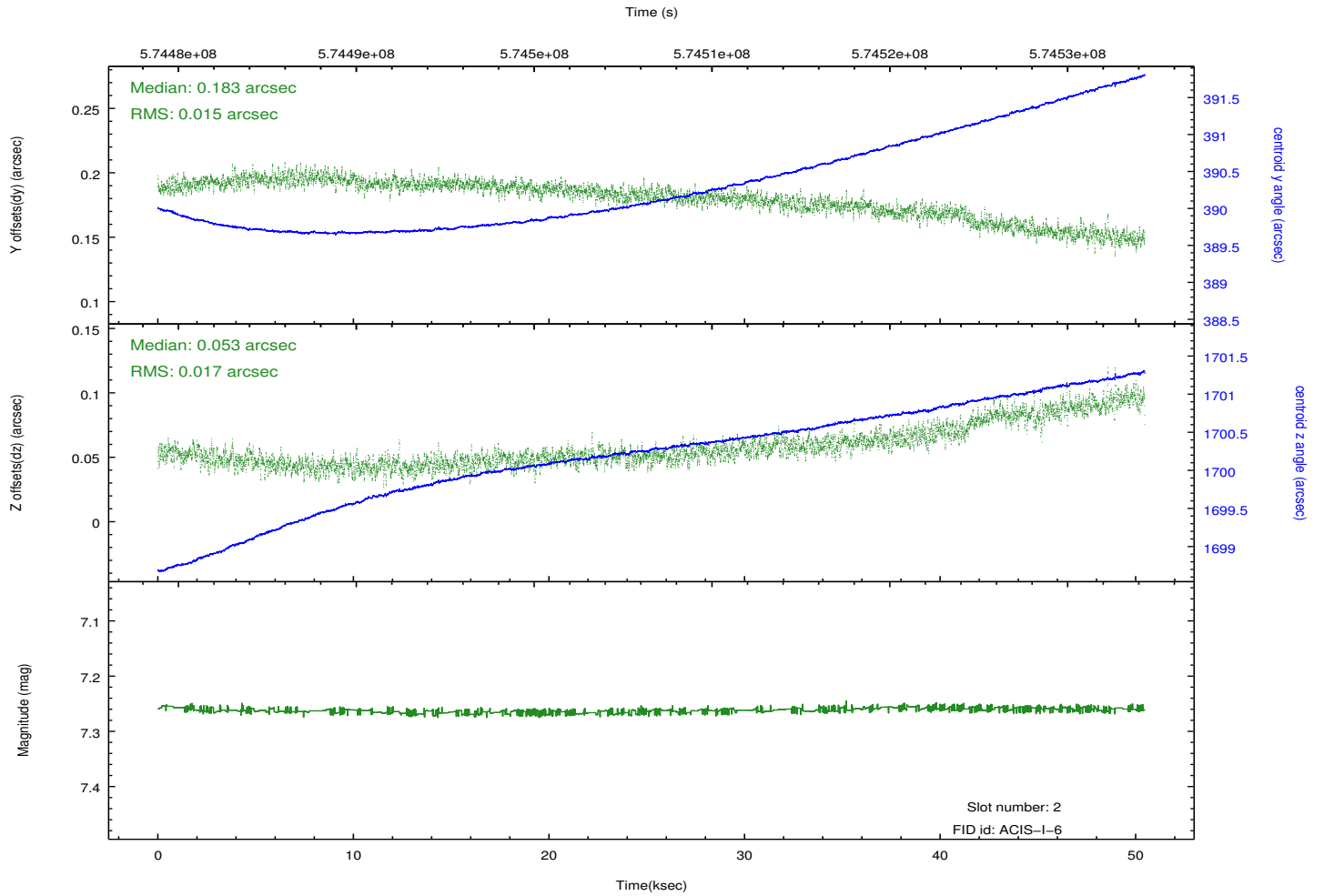
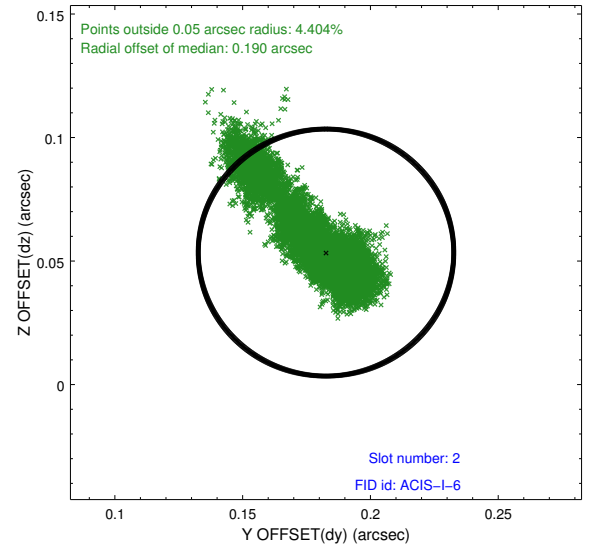
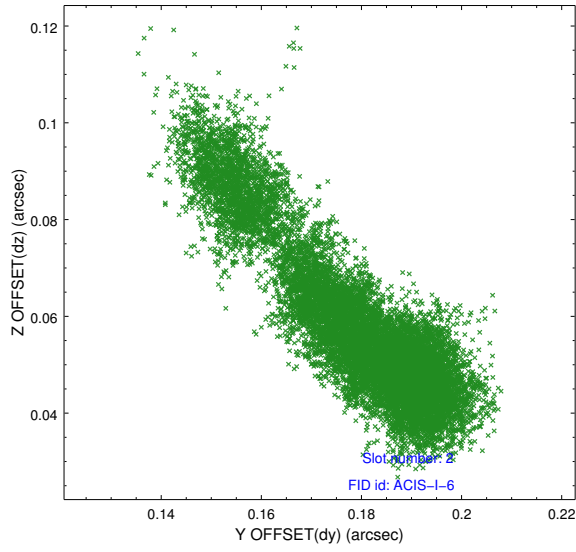
2.5.1 Slot 0



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)	2016.03.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	50.083600385308

A.2 Comments

The guide star in slot 4 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this star from the solution.