

V&V Reference Report

L2 ASCDS Version : 10.3.3

Observation 17062 - L2 Version 1
Chandra X-Ray Center

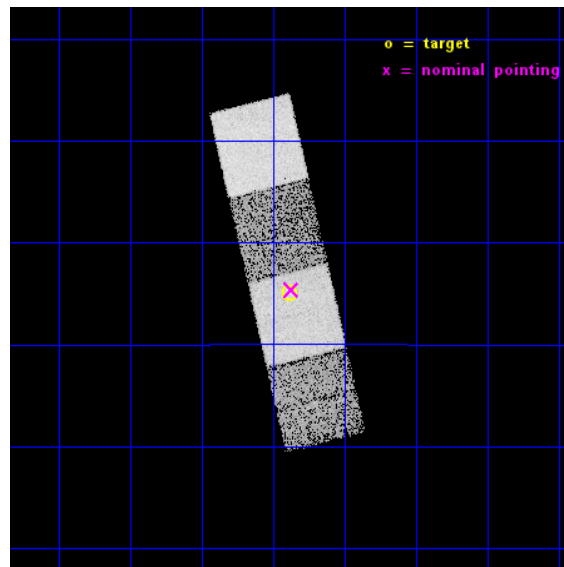
L2 Processing Date : Mar 14 2015

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1 Front

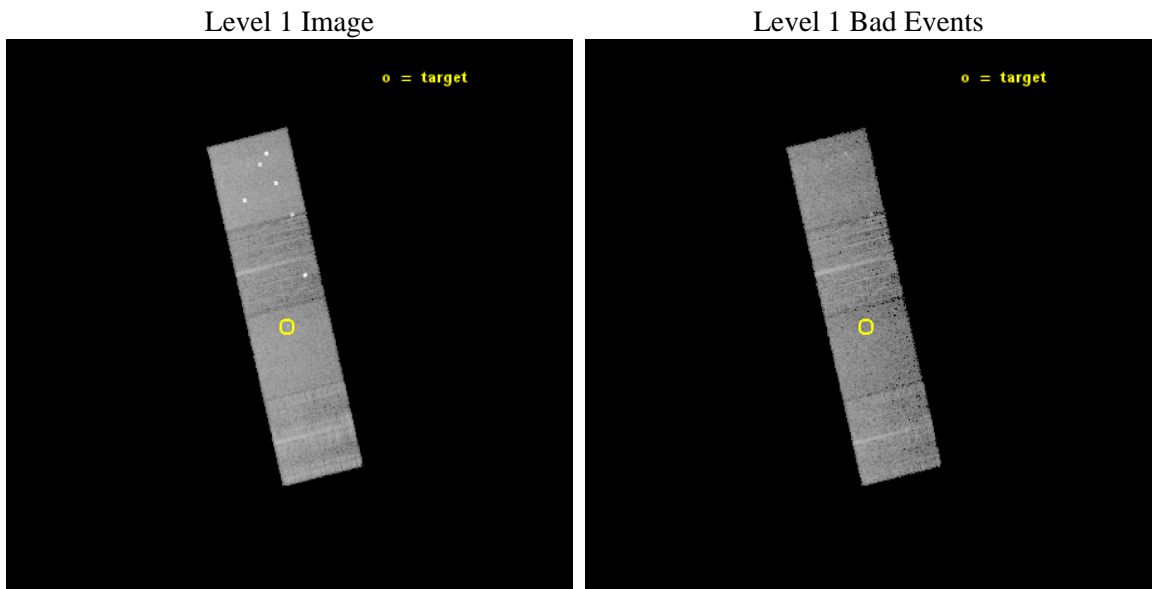
seq_num	703066	Sequence number
obs_id	17062	Observation id
title	ULTRAMASSIVE BLACK HOLES: FUNDAMENTAL PLANE AND CORONAE	Proposal t
observer	Dr. Kayhan Gultekin	Principal investigator
object	NGC 5133	Source name
dtycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	201.220417	Observer's specified target RA [deg]
dec_targ	-4.081944	Observer's specified target Dec [deg]
ra_nom	201.21805889851	Nominal RA [deg]
dec_nom	-4.0770357597816	Nominal Dec [deg]
roll_nom	76.500400278351	Nominal Roll [deg]
revision	1	Processing version of data
ontime	12058.207385182	Sum of GTIs [s]
livetime	11900.658028572	Livetime [s]
ontime5	12058.166345239	Sum of GTIs [s]
ontime6	12058.125305176	Sum of GTIs [s]
ontime7	12058.207385182	Sum of GTIs [s]
ontime8	12058.084265232	Sum of GTIs [s]
l2events	89078	Number of level 2 events



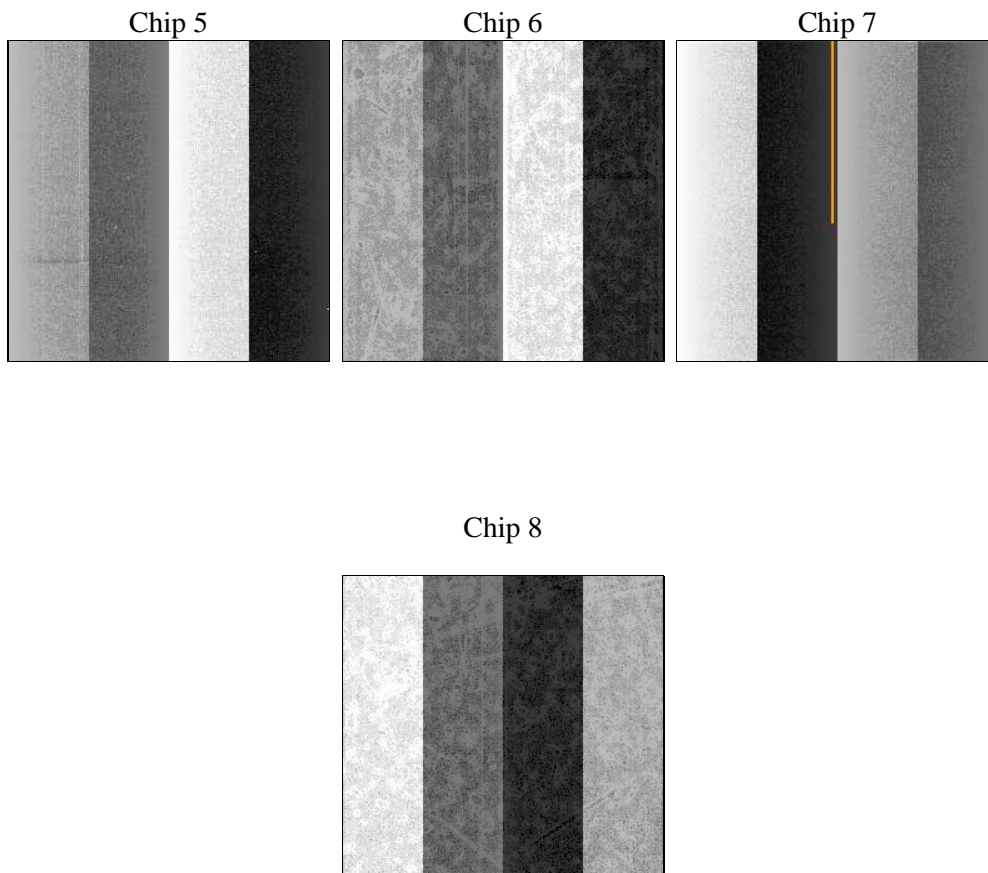
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	12000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	12058.207385182	Sum of GTIs [s]
caldbver	4.6.7	 	ontime5	12058.166345239	Sum of GTIs [s]
date	2015-03-14T15:50:00	Date and time of file creation	ontime6	12058.125305176	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	12058.207385182	Sum of GTIs [s]
			ontime8	12058.084265232	Sum of GTIs [s]
			l1events	338722	Number of level 1 events

2.1.4 Events

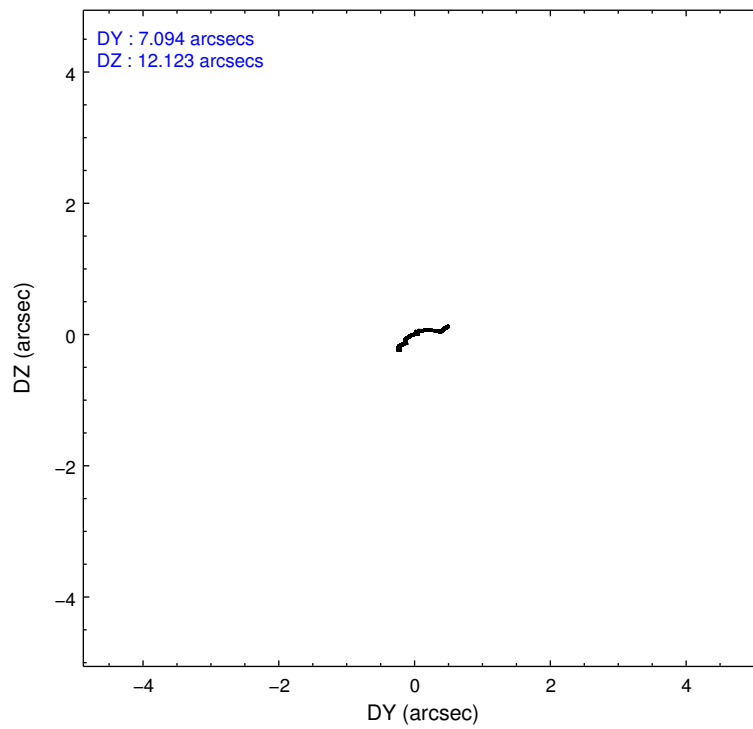
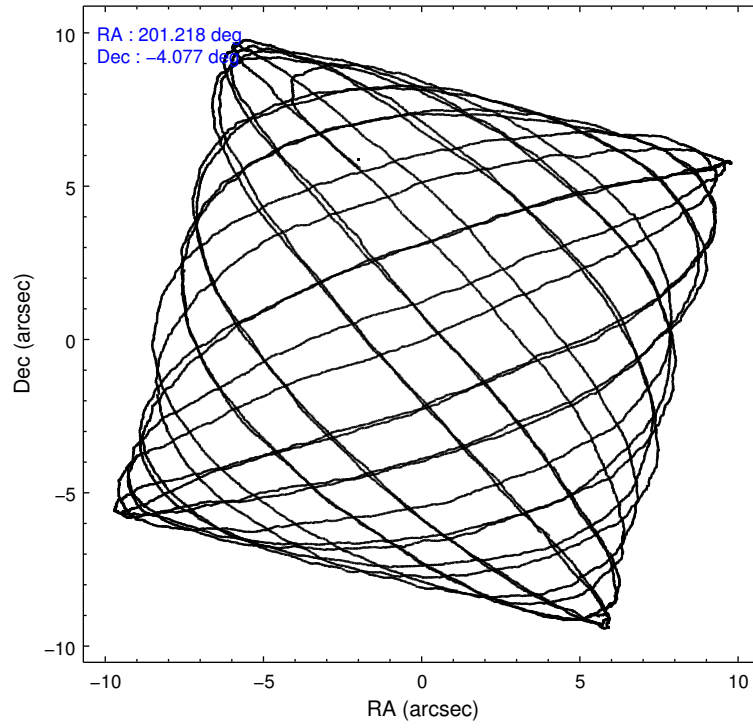
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	107543	64749	78891	87539
rejected events	50596	53881	44838	58396
rejected %	47%	83%	56%	66%

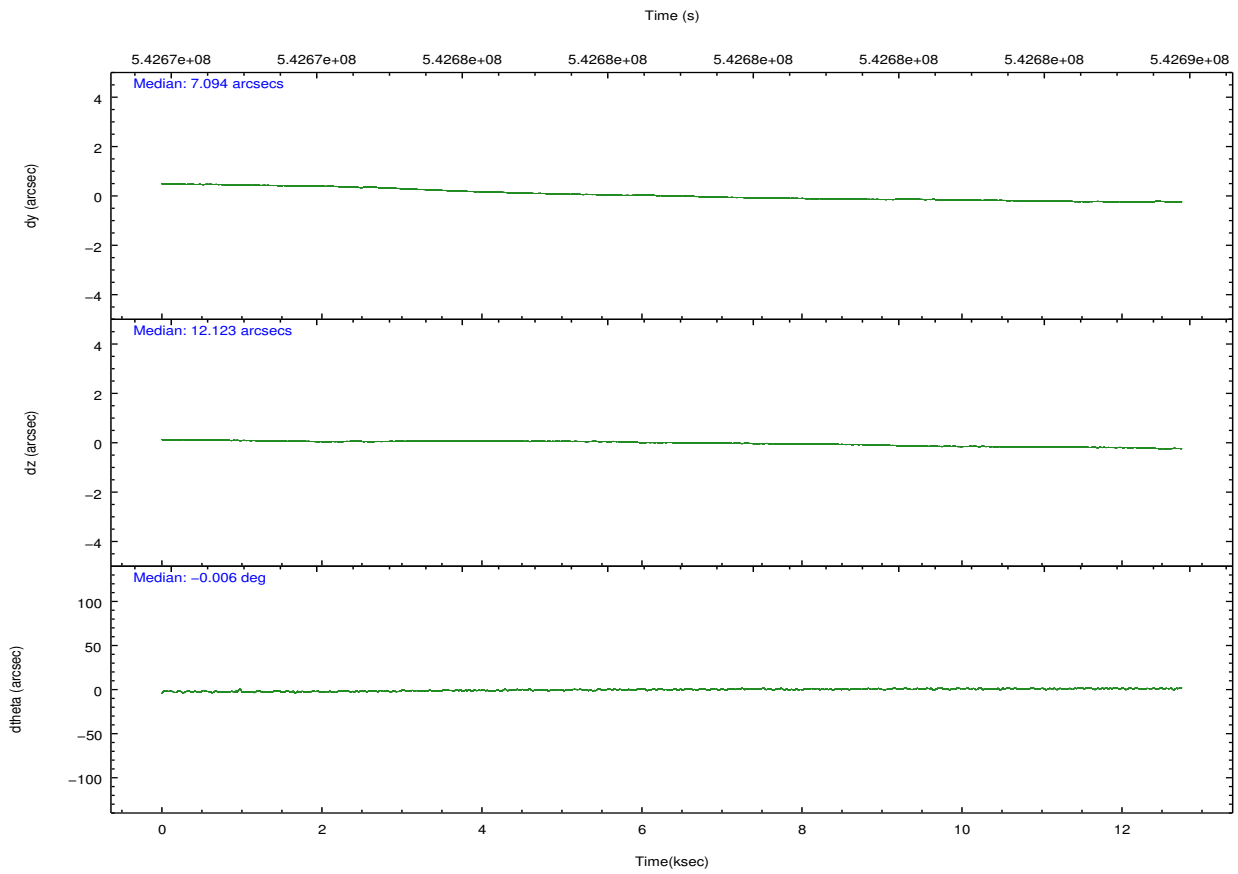
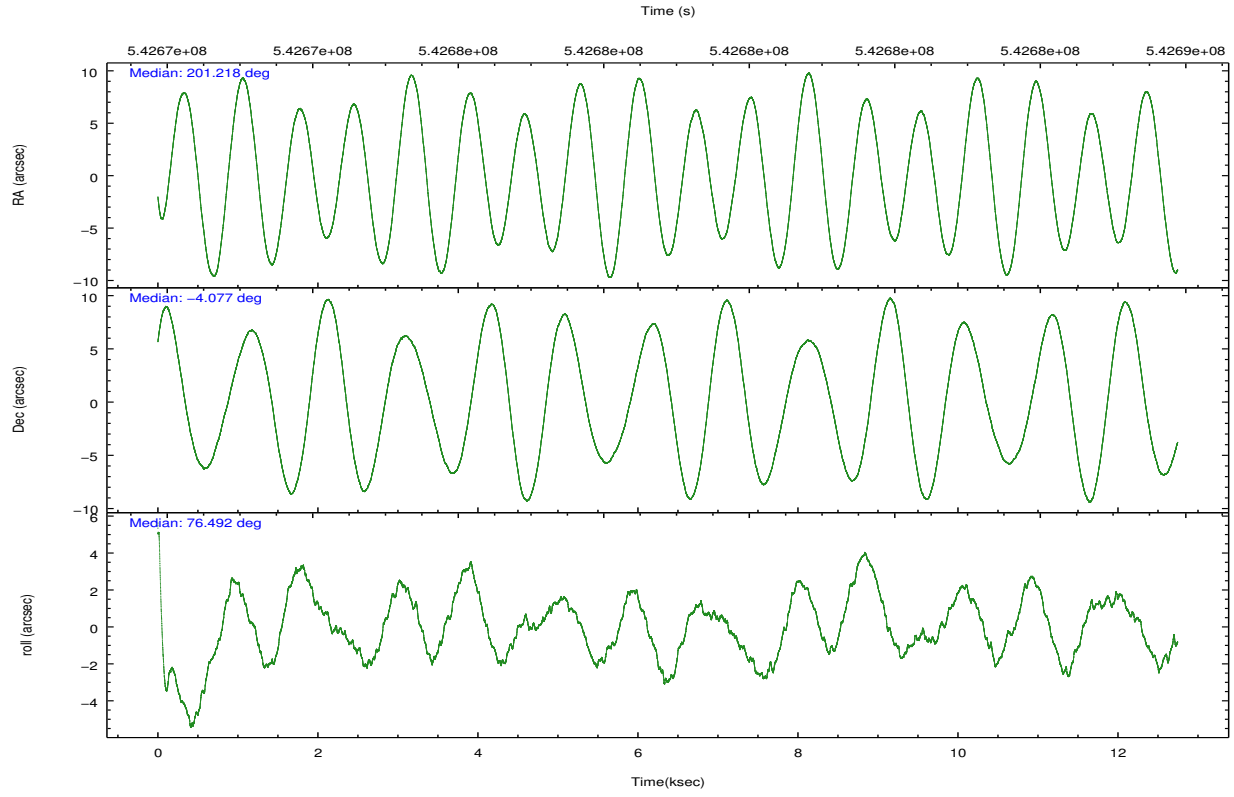
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	13054	6058	2837	9741
	12%	9%	3%	11%
grade 1 events	431	42	104	107
	0%	0%	0%	0%
grade 2 events	15815	1695	7169	5285
	14%	2%	9%	6%
grade 3 events	1438	689	2703	4047
	1%	1%	3%	4%
grade 4 events	1461	632	2510	3781
	1%	0%	3%	4%
grade 5 events	6484	2791	7538	4356
	6%	4%	9%	4%
grade 6 events	25190	1795	18843	6304
	23%	2%	23%	7%
grade 7 events	43670	51047	37187	53918
	40%	78%	47%	61%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-5678	ACIS-5678	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	201.226233	201.2180588985142	Subarray requested	NONE	NONE
[deg] Pointing Dec	-4.103254	-4.077035759781602	Alternating exposures requested	N	N
[deg] Pointing Roll	76.344346	76.50040027835067	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	542673259.184000	542671418.19912			
Observation start date	2015-03-13T22:33:12	2015-03-13T22:03:38			
[s] Observation end time (MET)	542685259.184000	542685973.19994			
Observation end date	2015-03-14T01:53:12	2015-03-14T02:06:13			
Read mode	TIMED	TIMED			

2.3 Aspect





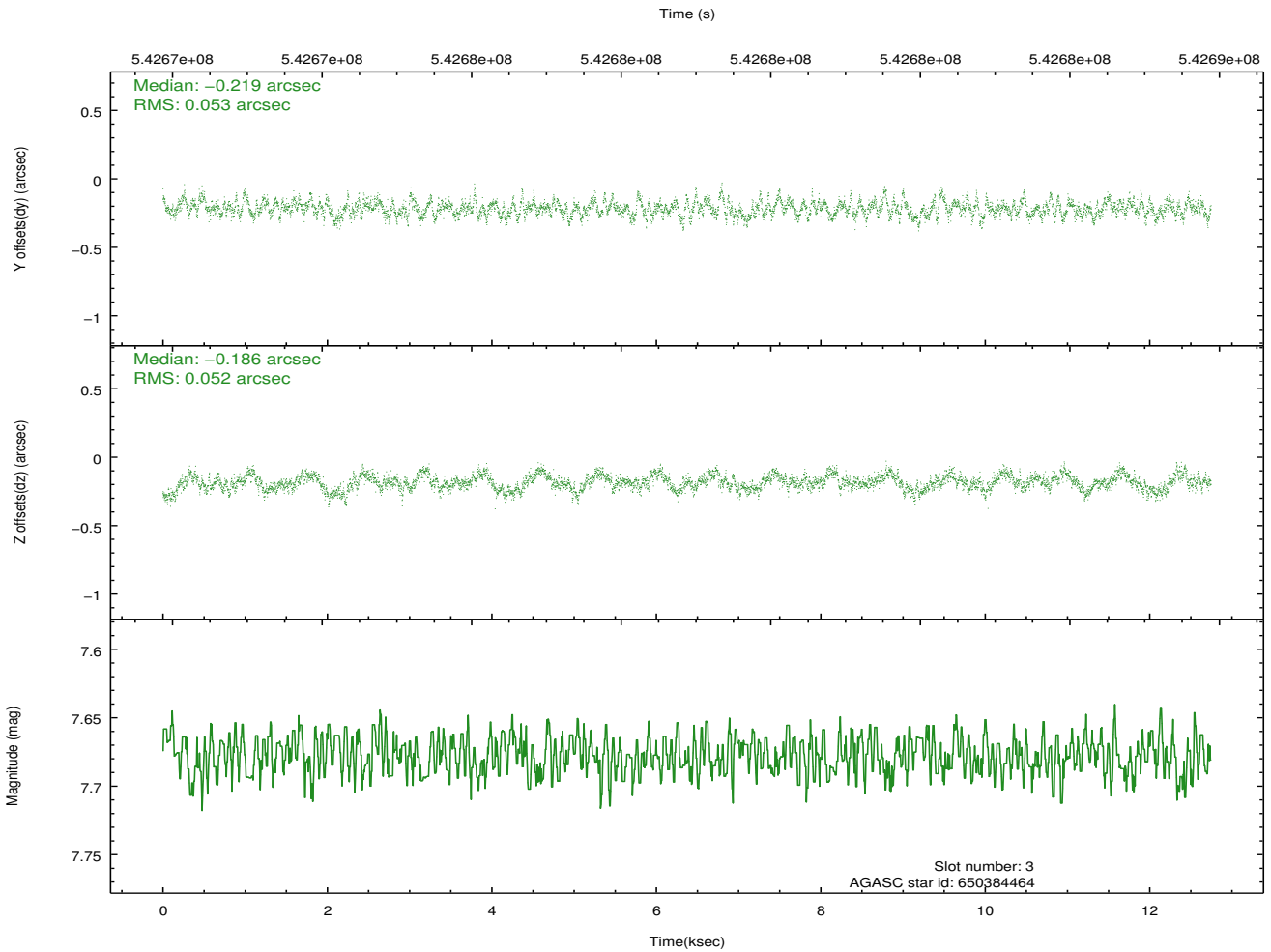
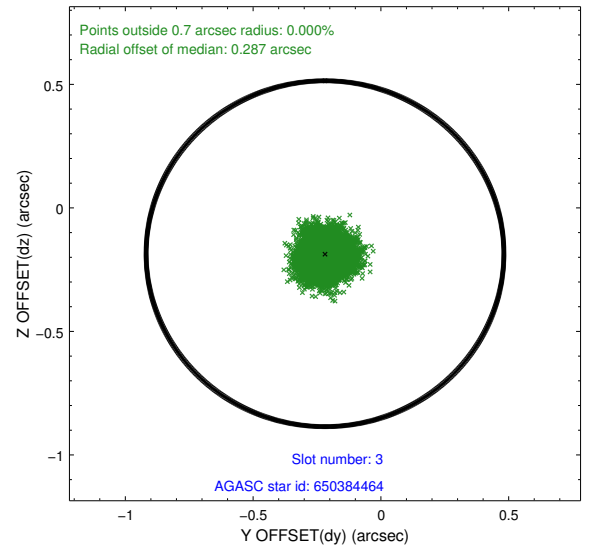
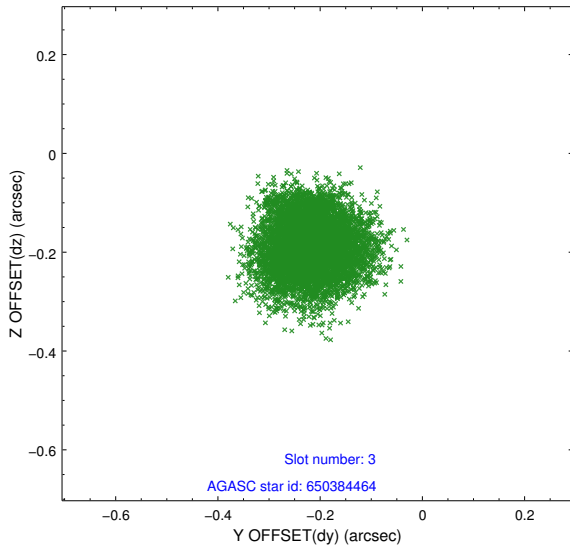
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.15	3109	-0.020	-0.080	0.011	0.026	0.000000	0.000000	936.13	-1729.10
1	FID		ACIS-S-4	7.17	3109	0.094	0.012	0.009	0.014	0.000000	0.000000	2153.84	174.77
2	FID		ACIS-S-6	7.31	3109	-0.097	0.077	0.008	0.017	0.000000	0.000000	402.45	812.61
3	GUIDE	used	650384464	7.68	6219	-0.219	-0.186	0.081	0.126	201.031021	-4.536556	-1681.37	312.21
4	GUIDE	used	650387560	6.98	6219	-0.124	-0.066	0.079	0.128	201.536132	-3.661102	1809.29	-705.77
5	GUIDE	used	650387600	8.16	6218	0.048	-0.246	0.083	0.130	200.864050	-3.992994	78.68	1357.72
6	GUIDE	used	650388072	9.32	6211	0.003	0.352	0.117	0.189	201.705118	-4.620787	-1404.83	-2109.32
7	GUIDE	used	650388328	9.31	6210	0.290	0.143	0.125	0.199	201.658177	-4.445811	-832.28	-1797.92

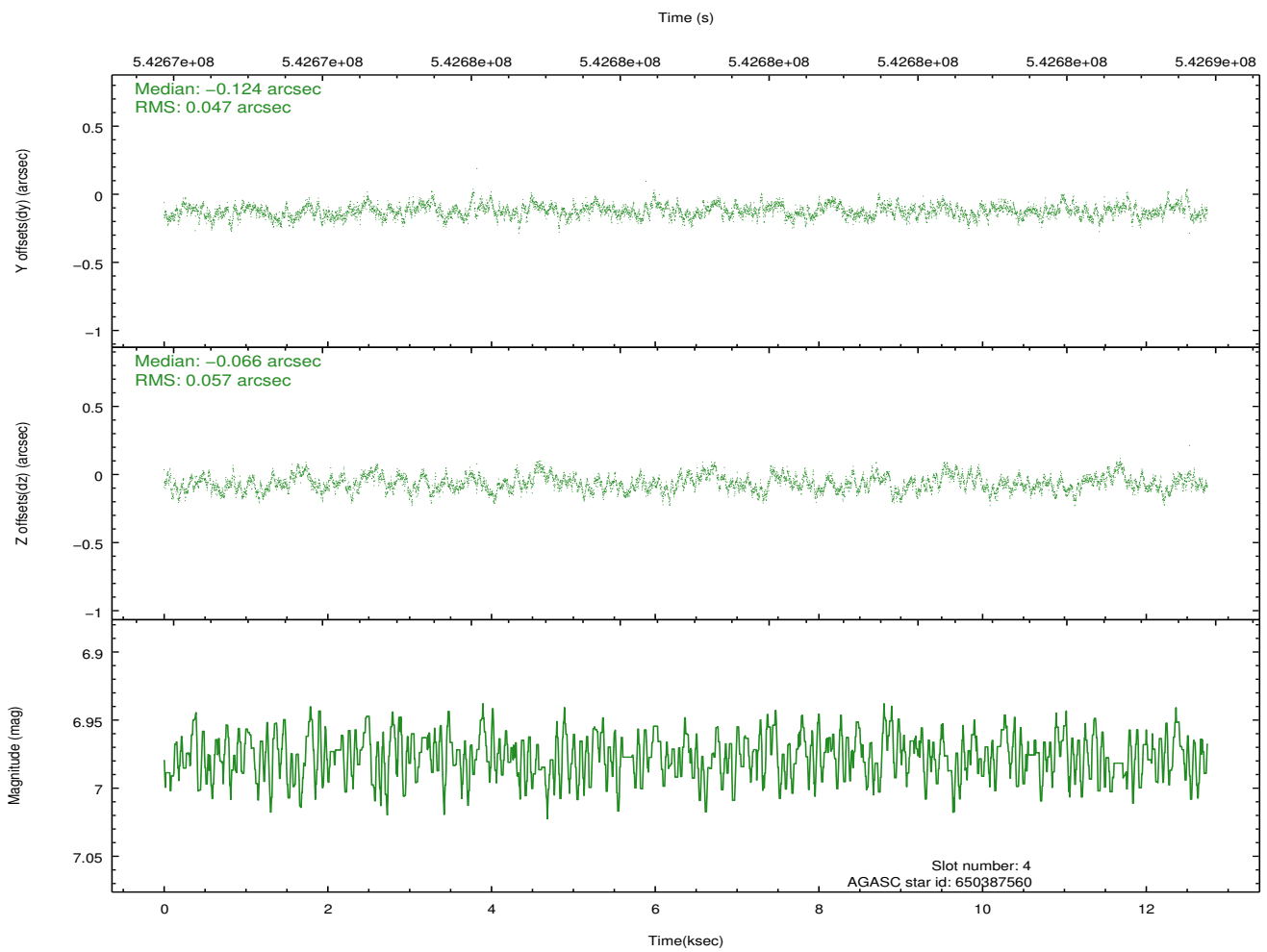
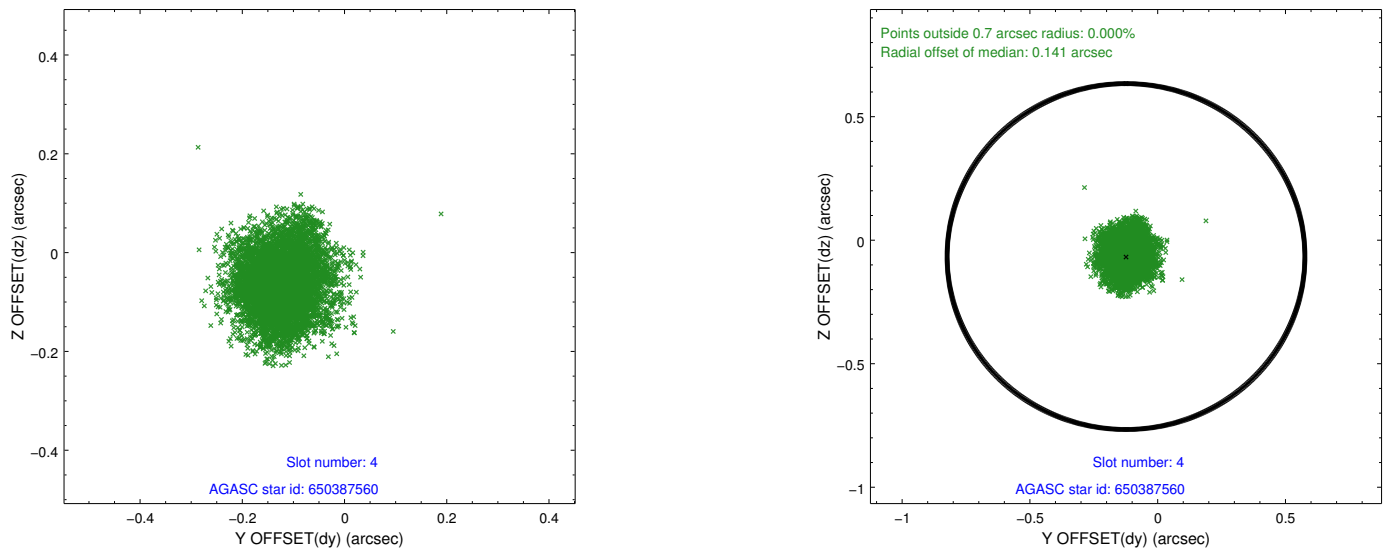
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2.4 Star Slots

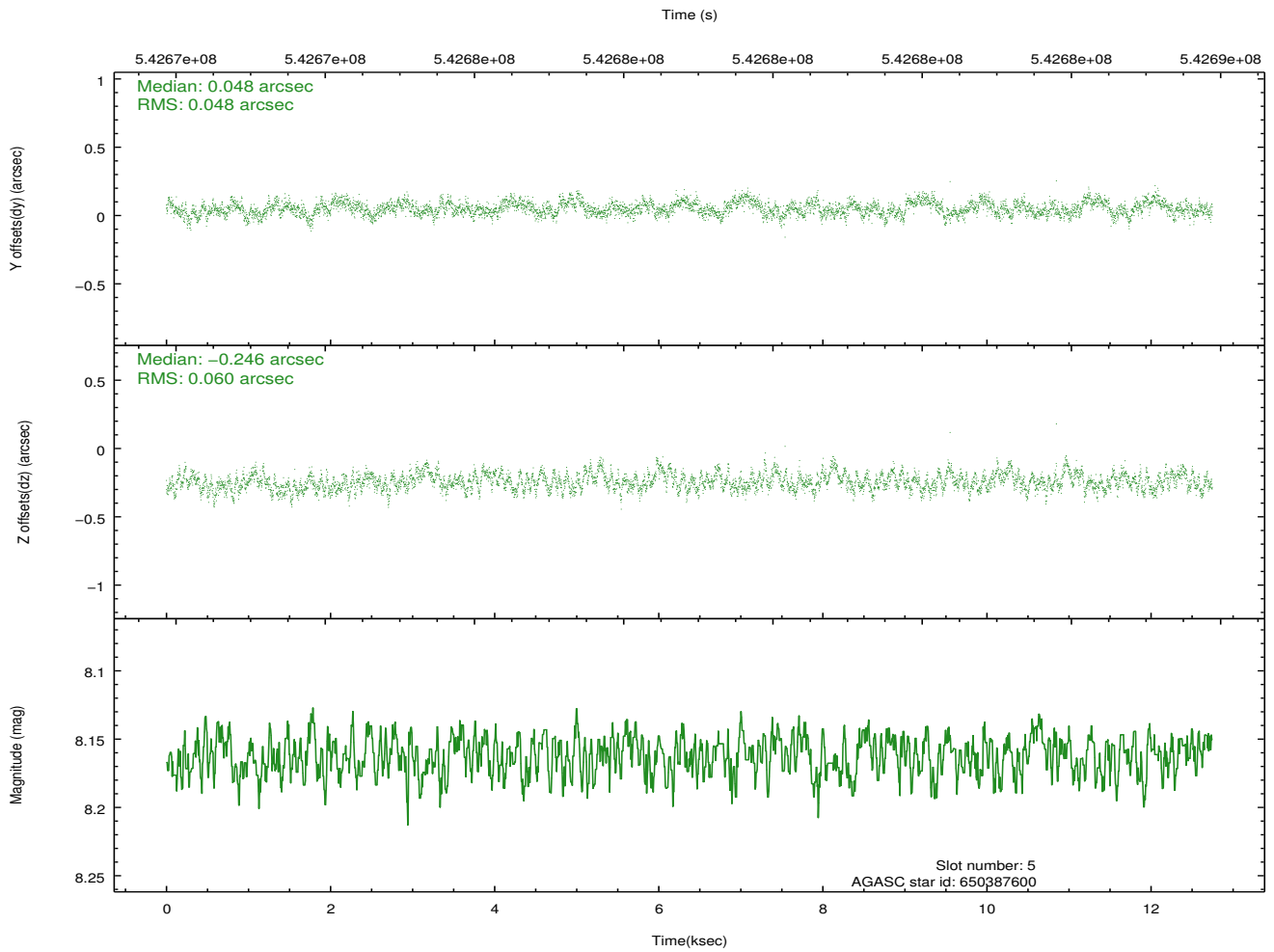
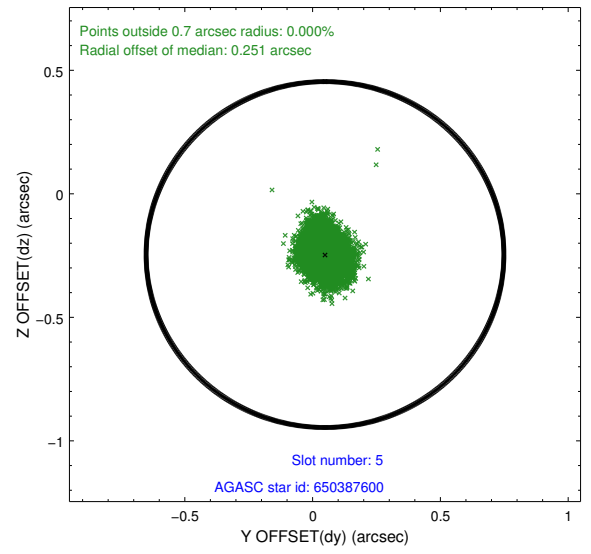
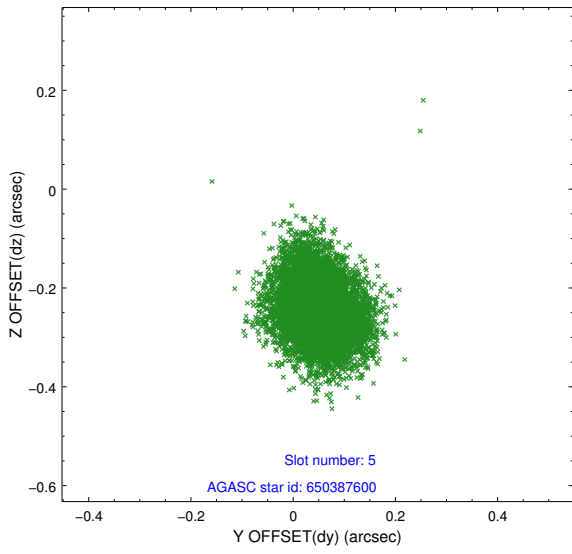
2.4.1 Slot 3



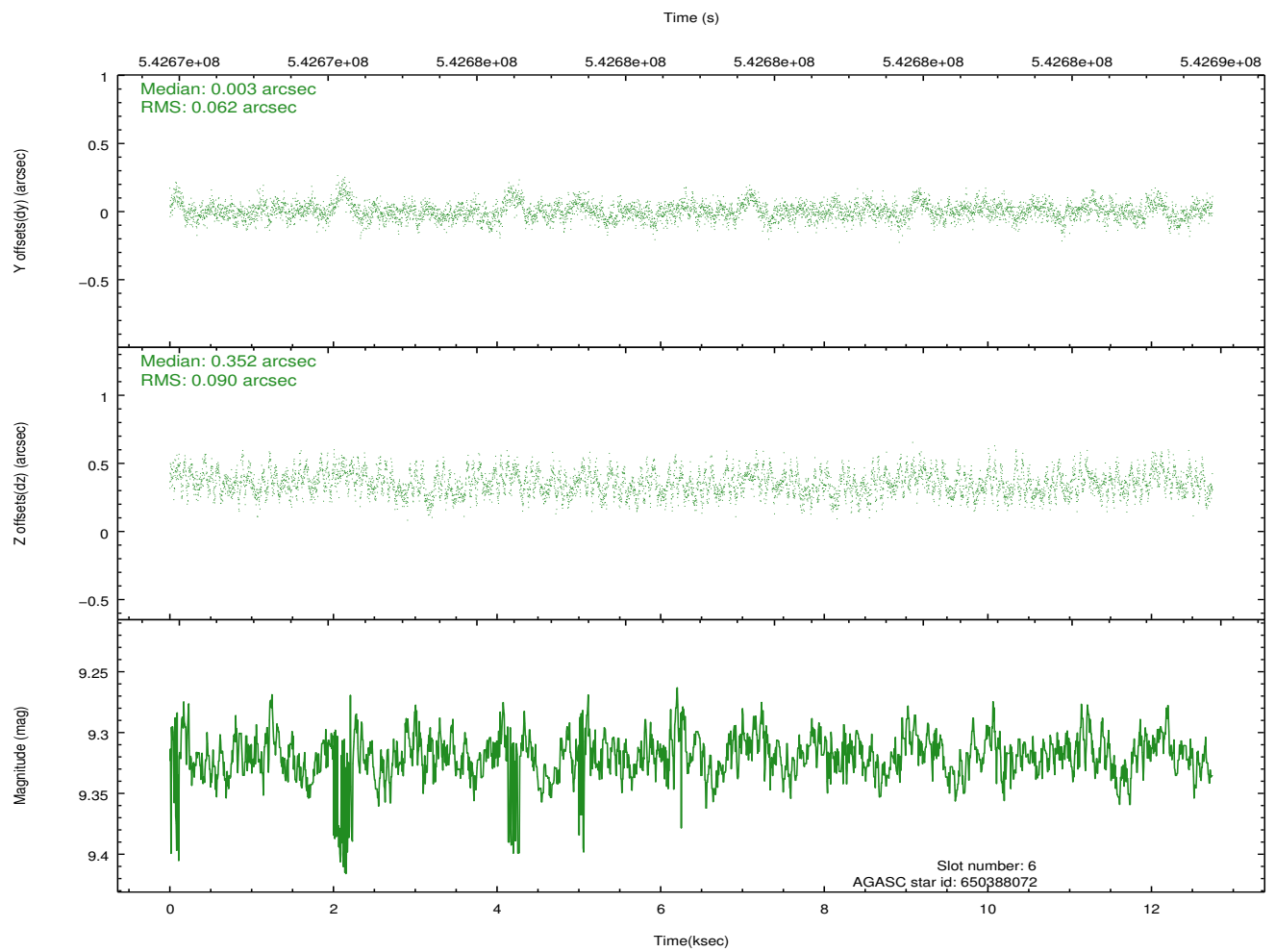
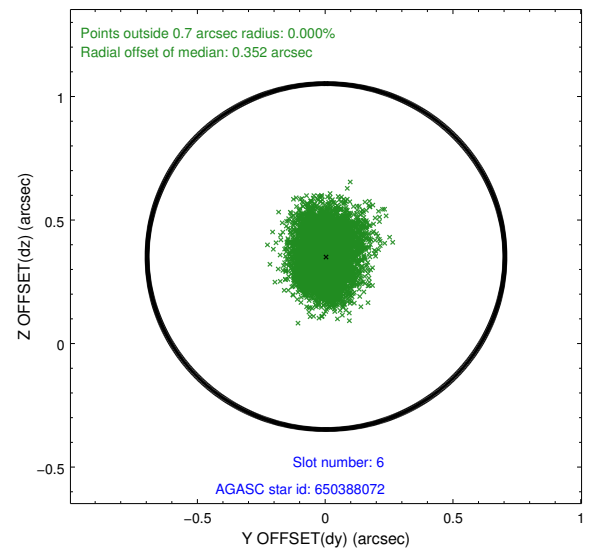
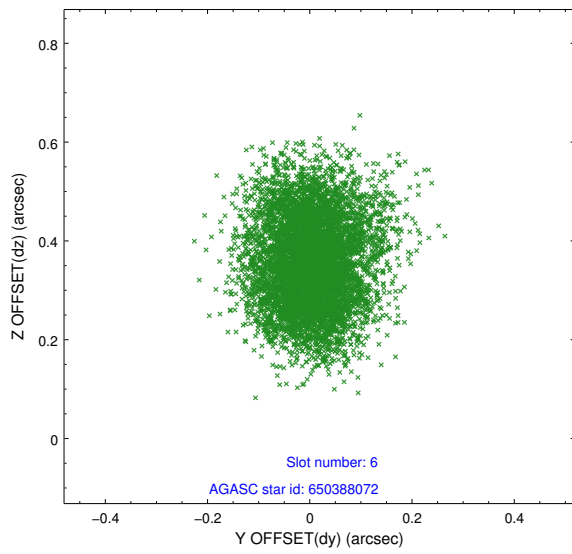
2.4.2 Slot 4



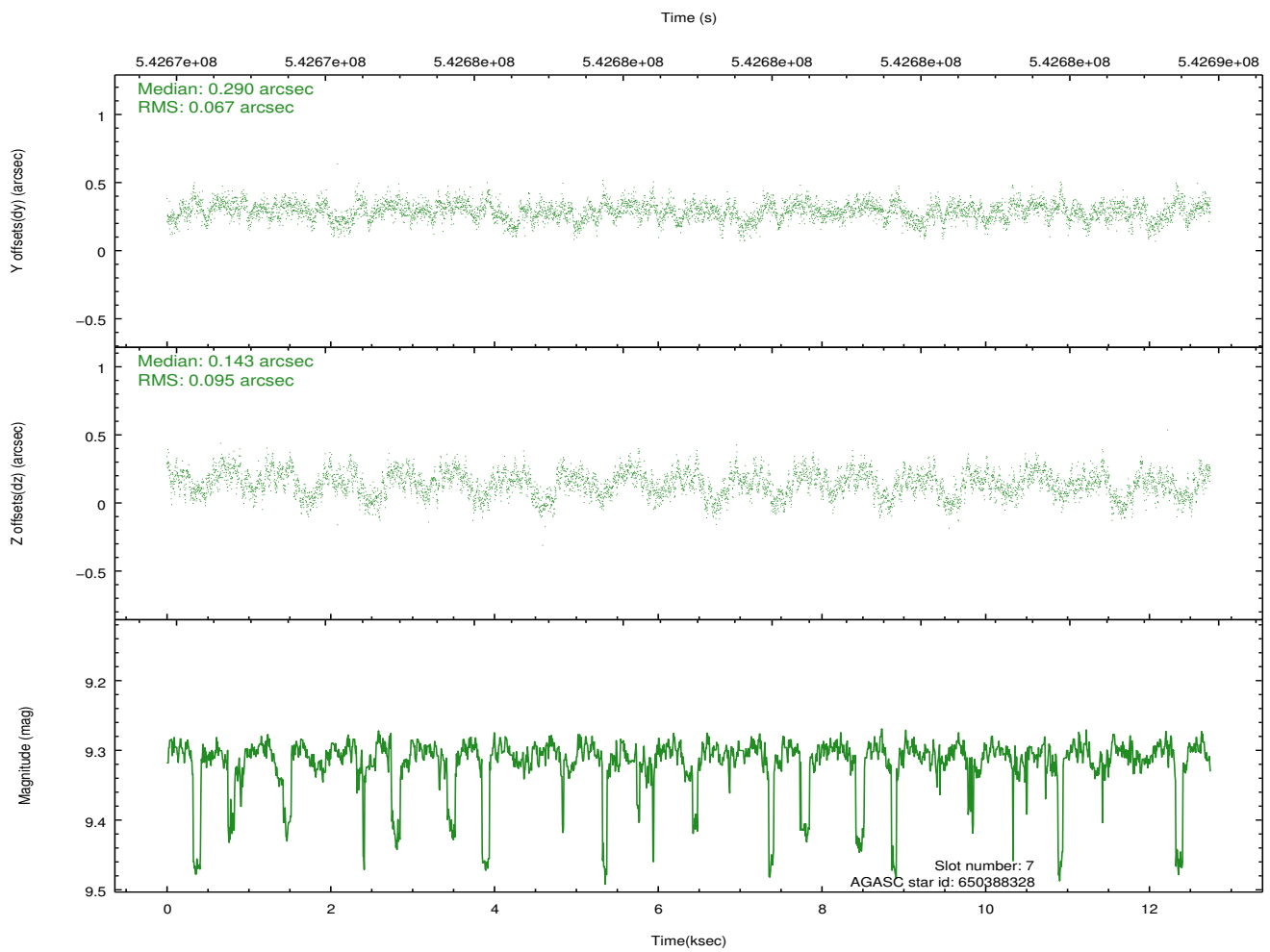
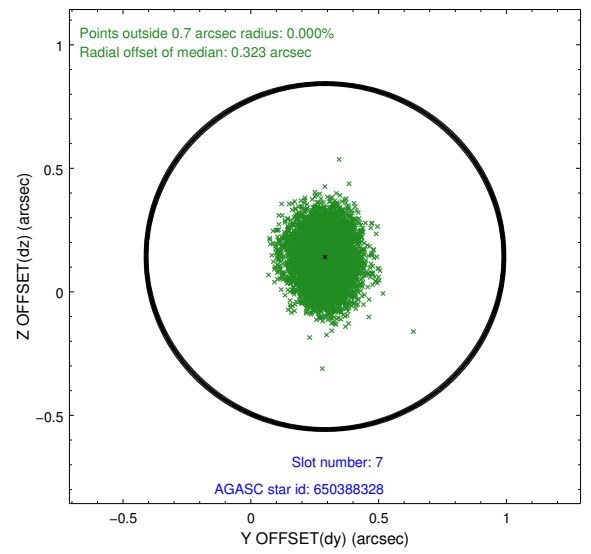
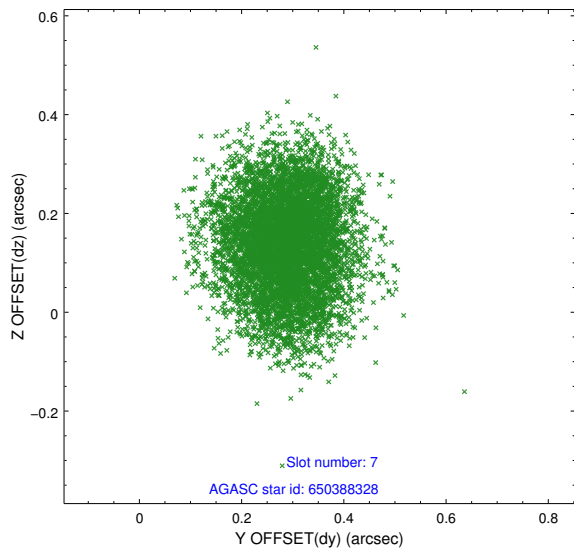
2.4.3 Slot 5



2.4.4 Slot 6

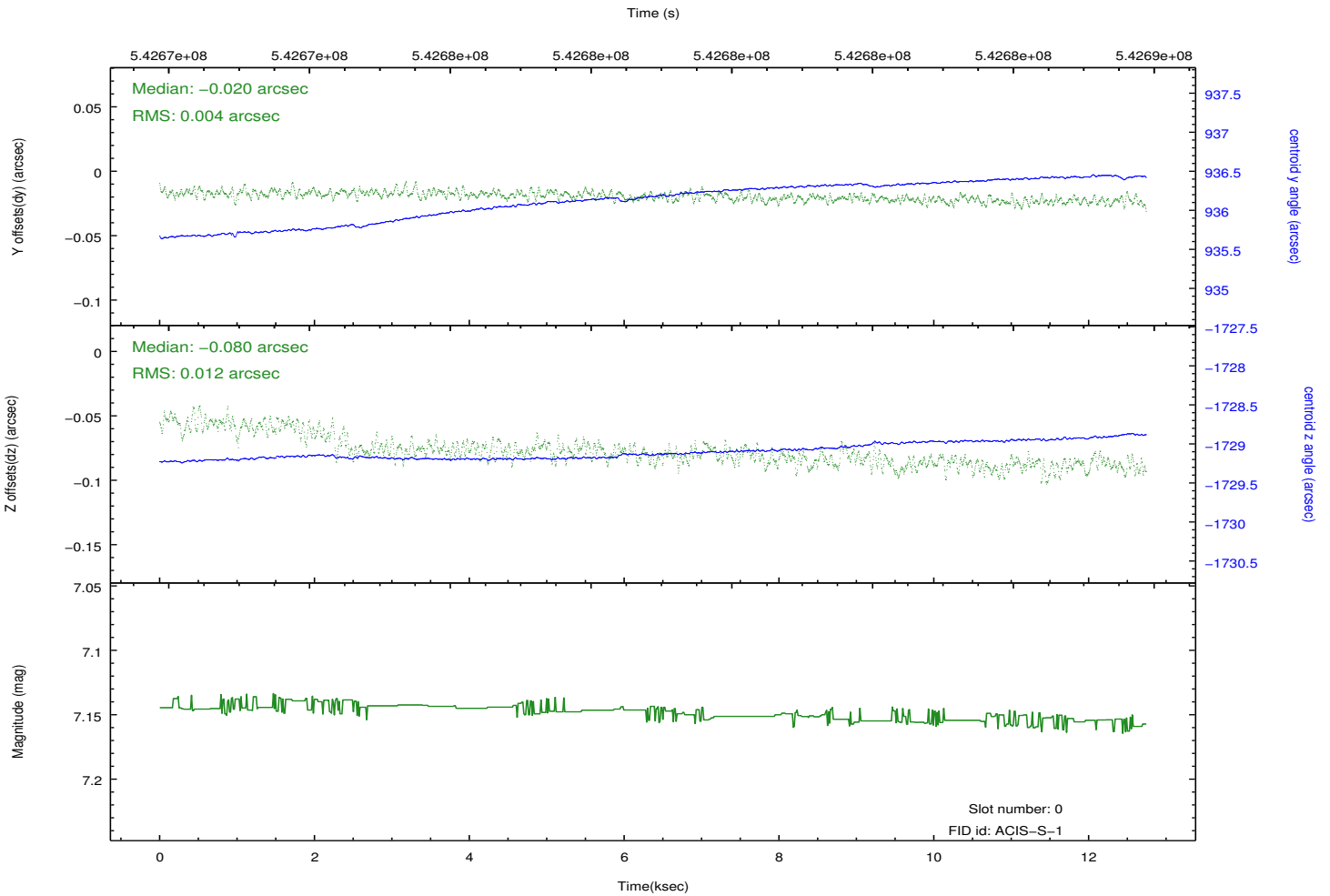
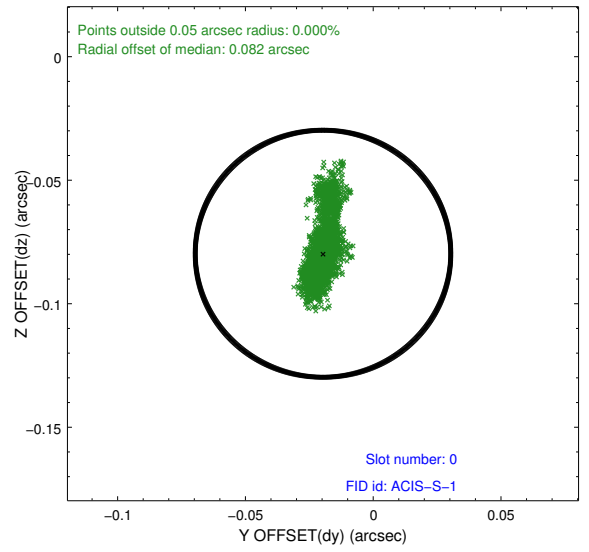
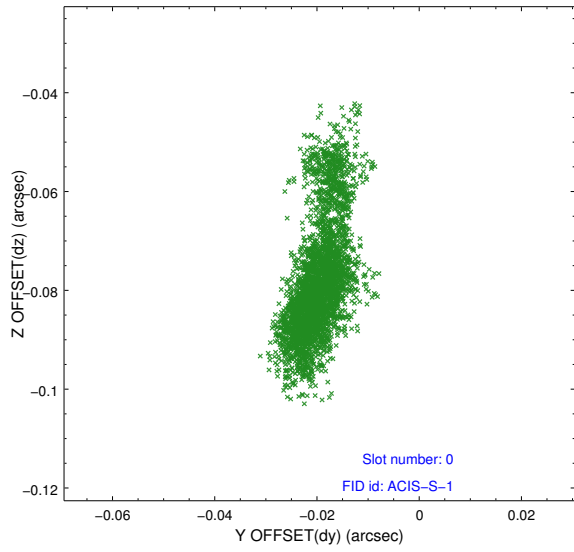


2.4.5 Slot 7

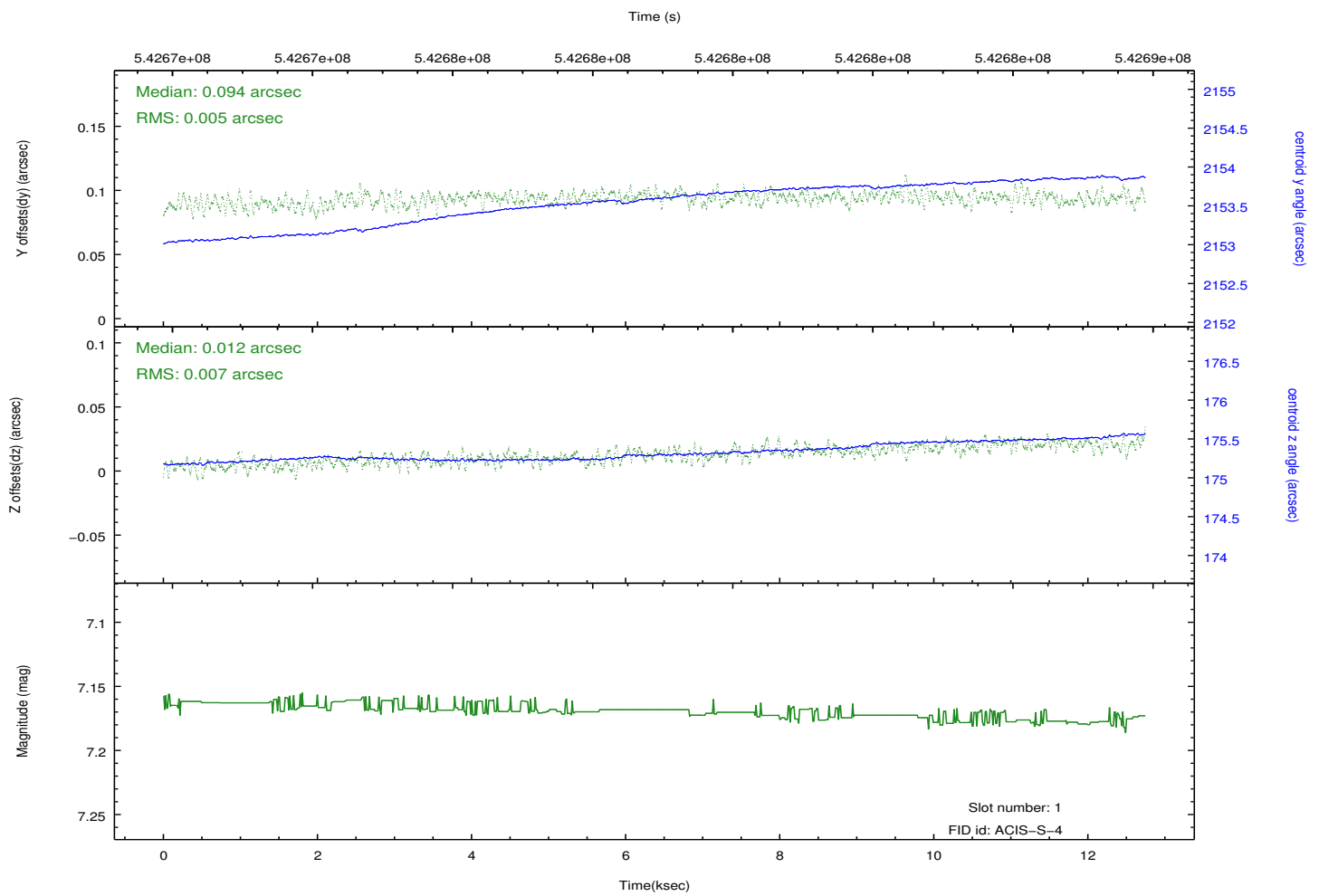
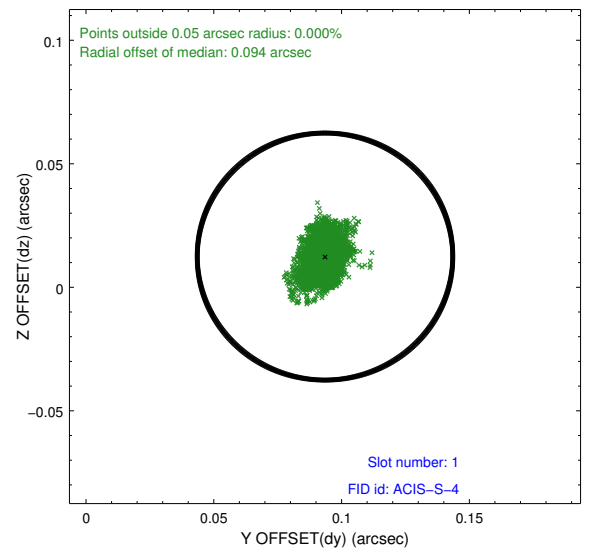
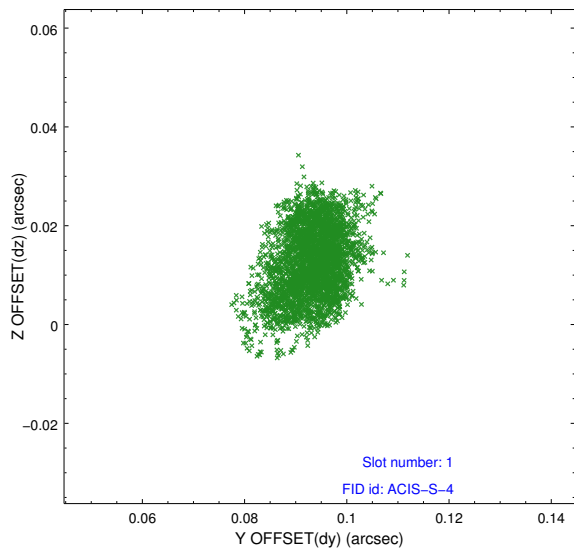


2.5 FID Slots

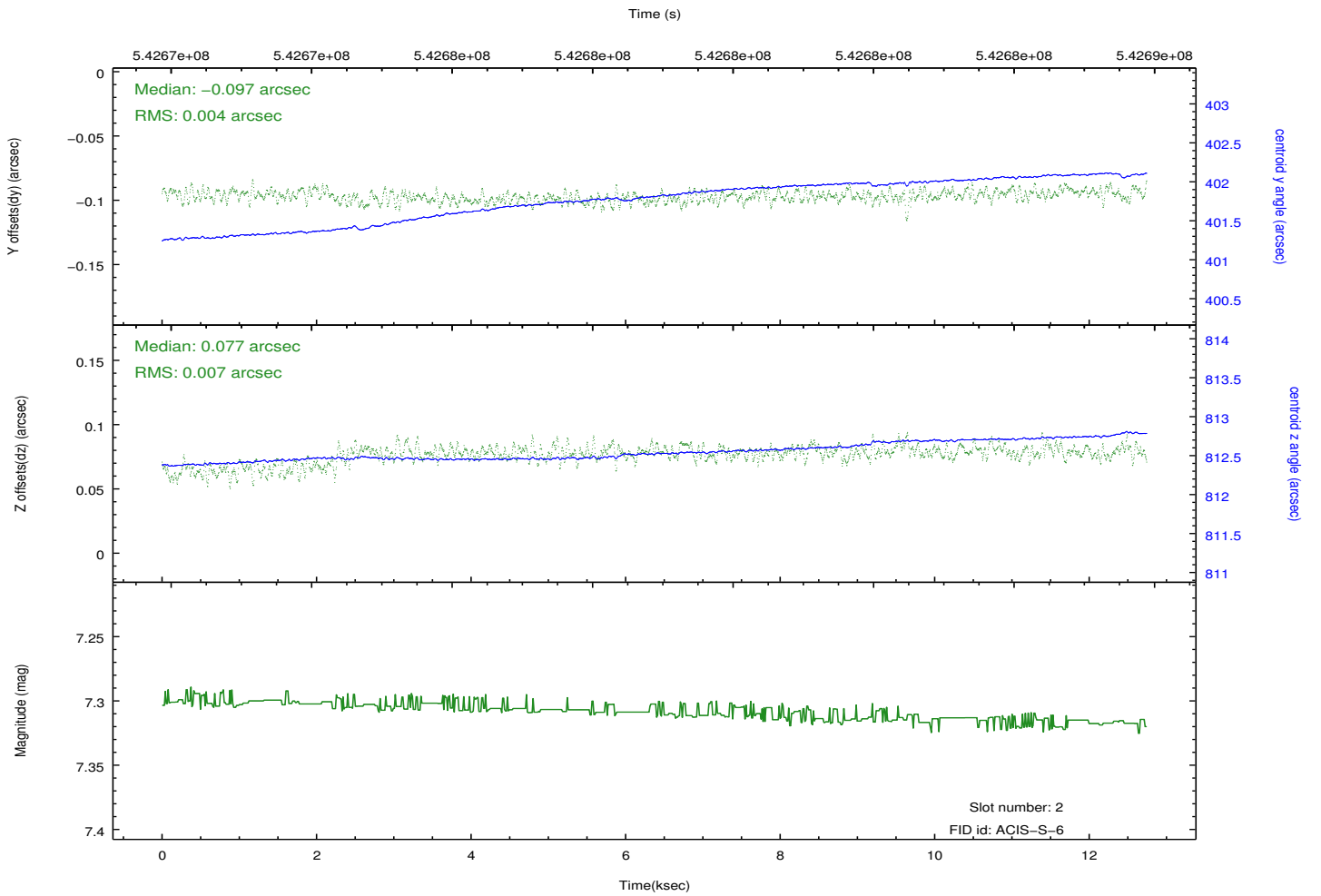
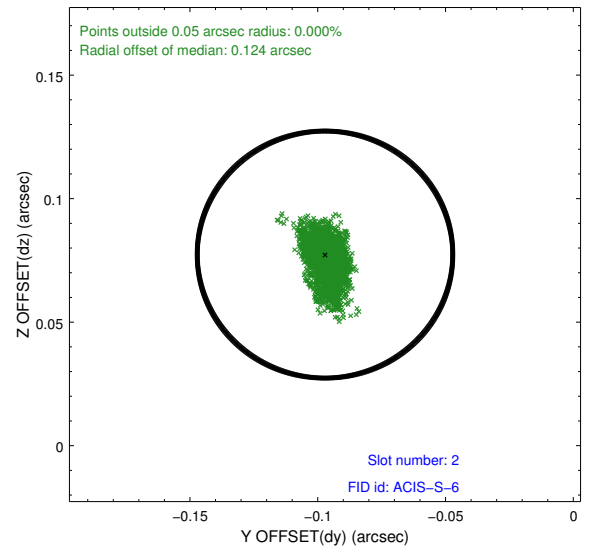
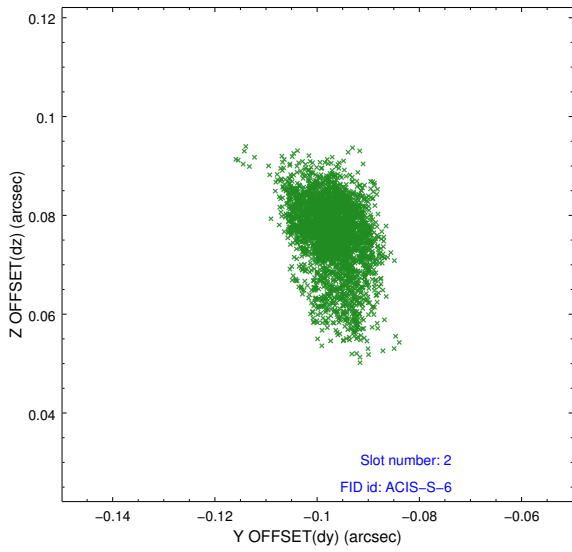
2.5.1 Slot 0



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)	2015.03.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	12.058207385182

A.2 Comments

Joint Proposal: NRAO