

V&V Reference Report

L2 ASCDS Version : 10.4.2.1

Observation 17013 - L2 Version 1
Chandra X-Ray Center

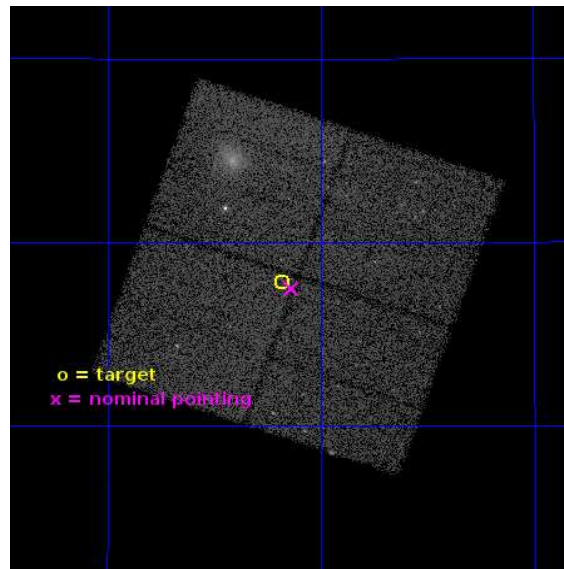
L2 Processing Date : Oct 18 2015

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

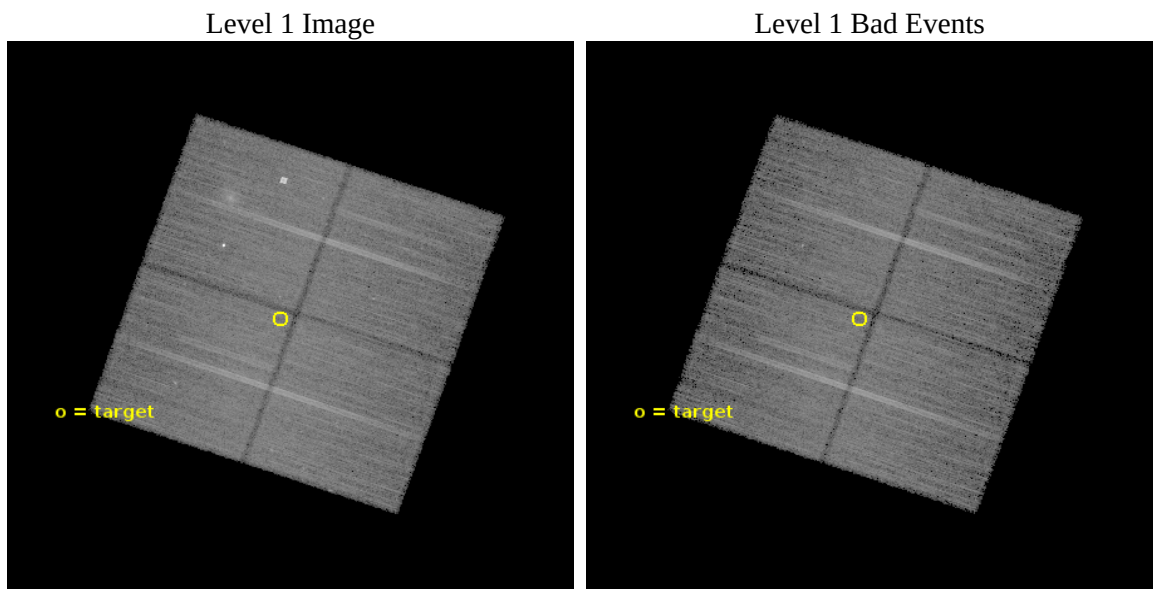
seq_num	601206	Sequence number
obs_id	17013	Observation id
title	A Chandra Legacy Survey of the Disk of M31	Proposal title
observer	Dr. Benjamin Williams	Principal investigator
object	PHAT B18	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	11.54514	Observer's specified target RA [deg]
dec_targ	41.964164	Observer's specified target Dec [deg]
ra_nom	11.534518580155	Nominal RA [deg]
dec_nom	41.957956679423	Nominal Dec [deg]
roll_nom	199.10836012129	Nominal Roll [deg]
revision	1	Processing version of data
ontime	45382.652413011	Sum of GTIs [s]
livetime	44789.694649012	Livetime [s]
ontime0	45382.529323339	Sum of GTIs [s]
ontime1	45388.852423787	Sum of GTIs [s]
ontime2	45388.89346385	Sum of GTIs [s]
ontime3	45382.652413011	Sum of GTIs [s]
l2events	104355	Number of level 2 events



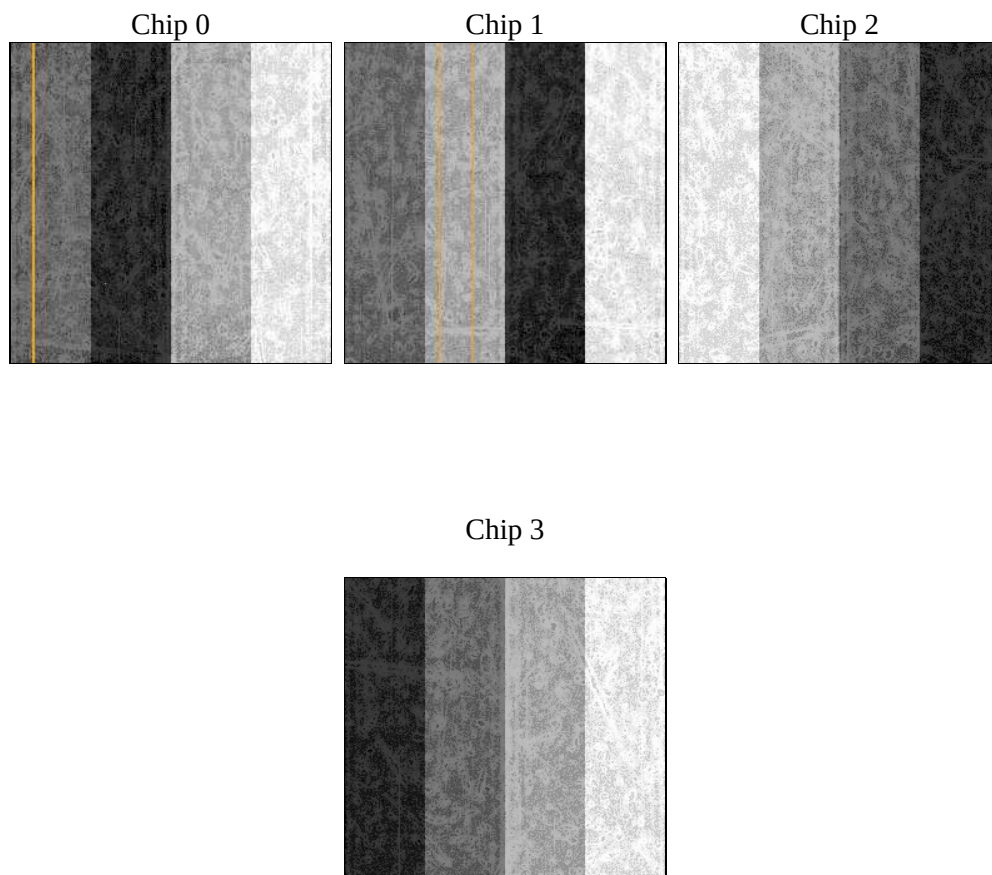
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	45300.000000	[s] Scheduled observation exposure time
ascdsver	10.4.2.1	Processing system revision	ontime	45382.652413011	Sum of GTIs [s]
caldsver	4.6.10a	 	ontime0	45382.529323339	Sum of GTIs [s]
date	2015-10-18T16:37:00	Date and time of file creation	ontime1	45388.852423787	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	45388.89346385	Sum of GTIs [s]
			ontime3	45382.652413011	Sum of GTIs [s]
			l1events	956150	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	219899	249744	246856	239651
rejected events	191752	201458	219869	213156
rejected %	87%	80%	89%	88%

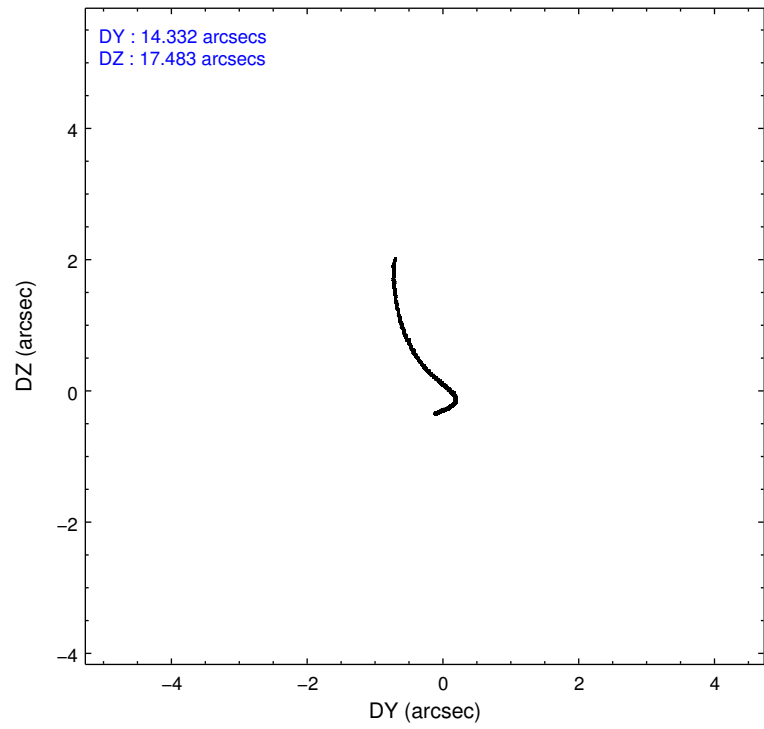
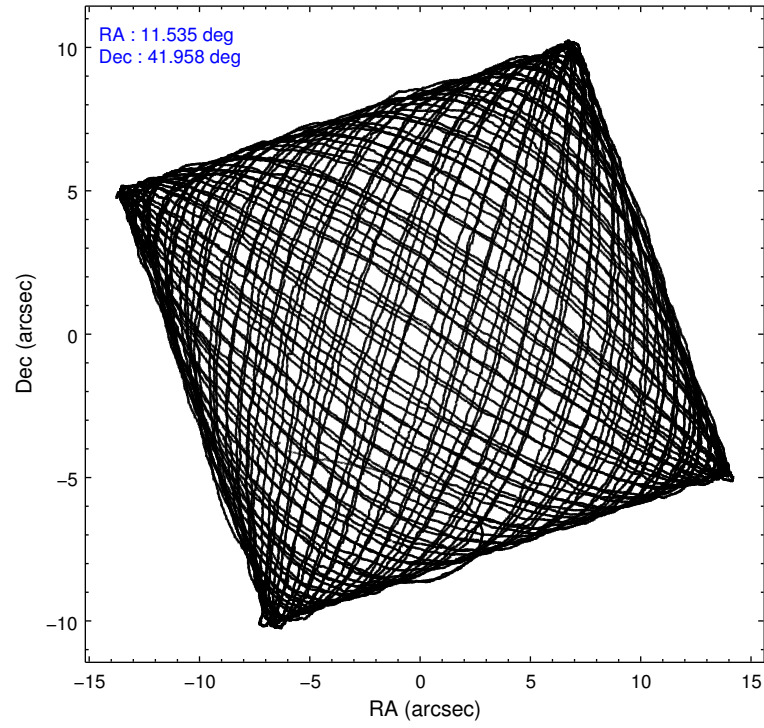
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	9510	25417	9718	9187
	4%	10%	3%	3%
grade 1 events	152	244	123	150
	0%	0%	0%	0%
grade 2 events	6882	8679	6649	5911
	3%	3%	2%	2%
grade 3 events	3005	3375	2692	2847
	1%	1%	1%	1%
grade 4 events	2779	3437	2726	2853
	1%	1%	1%	1%
grade 5 events	10974	11593	9934	12637
	4%	4%	4%	5%
grade 6 events	5975	7383	5206	5700
	2%	2%	2%	2%
grade 7 events	180622	189616	209808	200366
	82%	75%	84%	83%

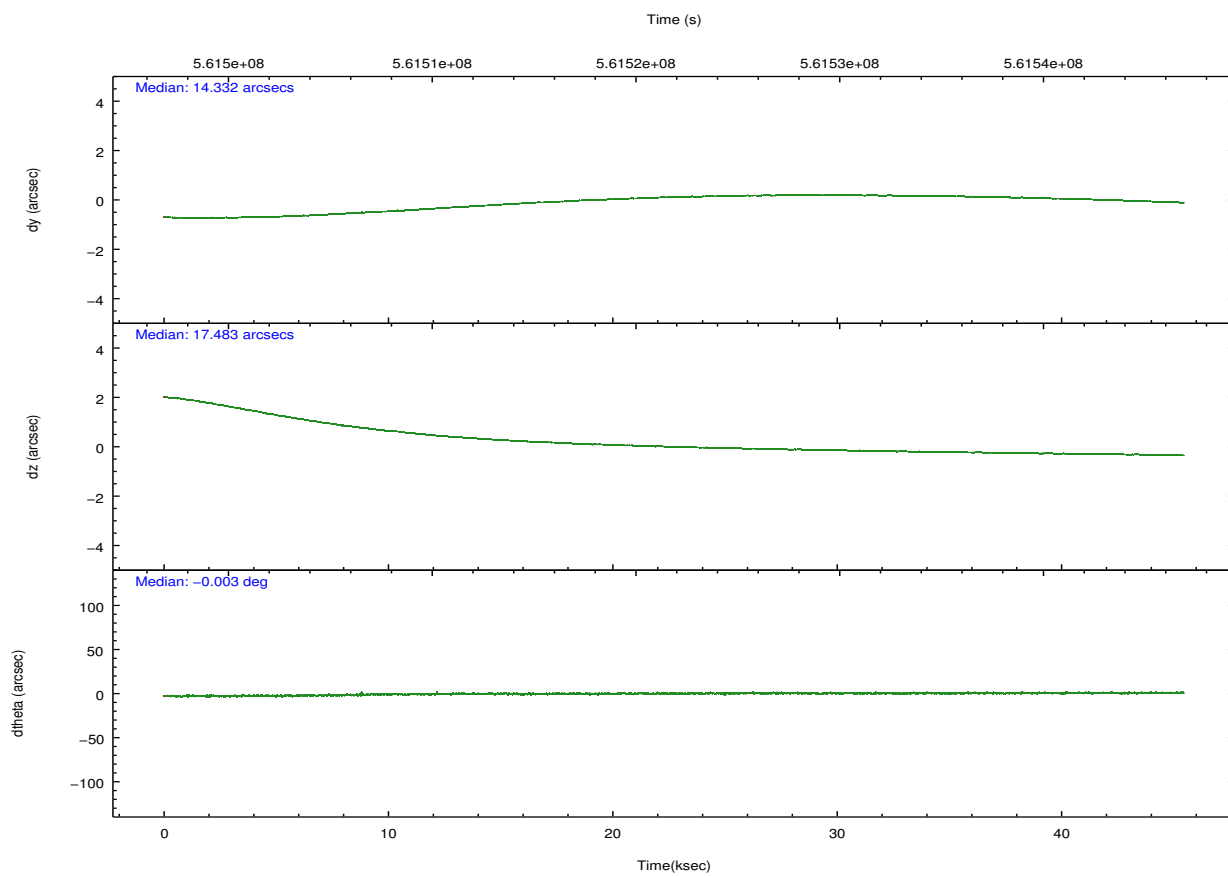
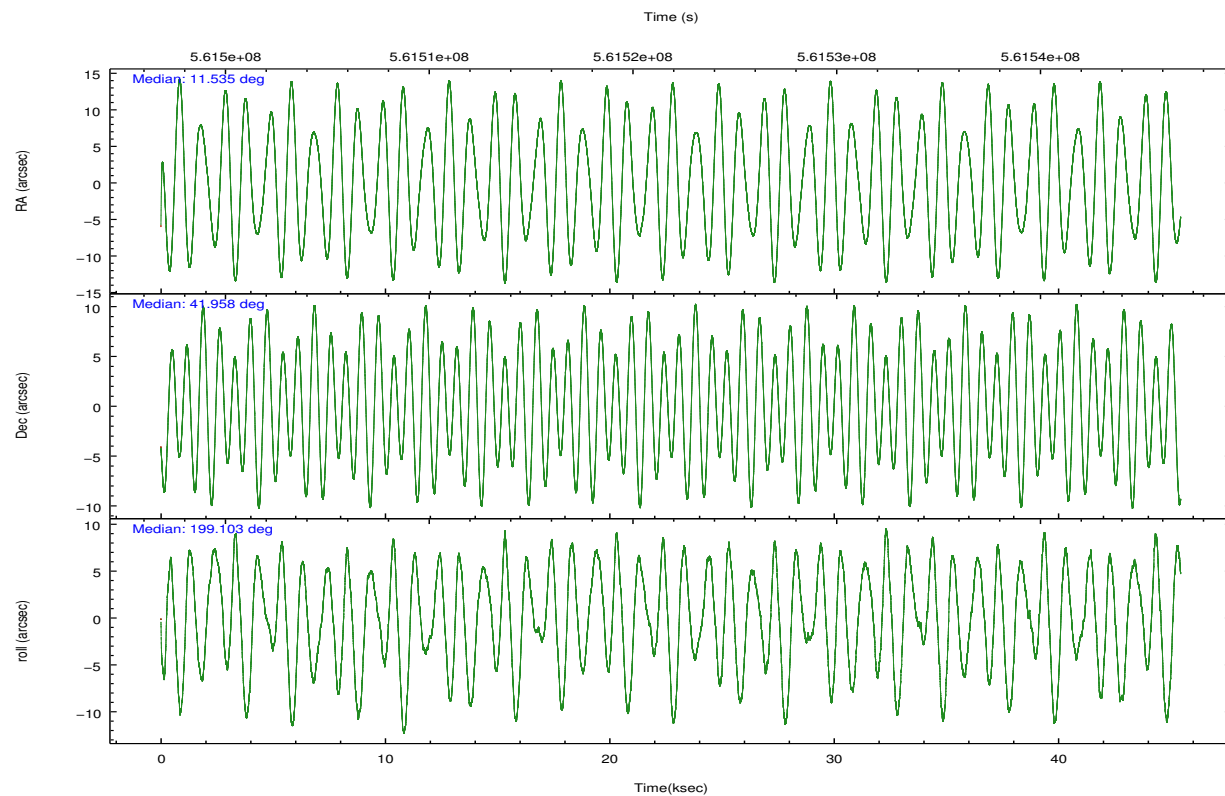
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-0123	ACIS-0123
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	11.558738	11.53451858015517
[deg] Pointing Dec	41.978900	41.95795667942289
[deg] Pointing Roll	198.883481	199.1083601212856
[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)	561499276.184000	561498094.73441
Observation start date	2015-10-17T20:00:08	2015-10-17T19:41:34
[s] Observation end time (MET)	561544576.184000	561545510.7245899
Observation end date	2015-10-18T08:35:08	2015-10-18T08:51:50
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



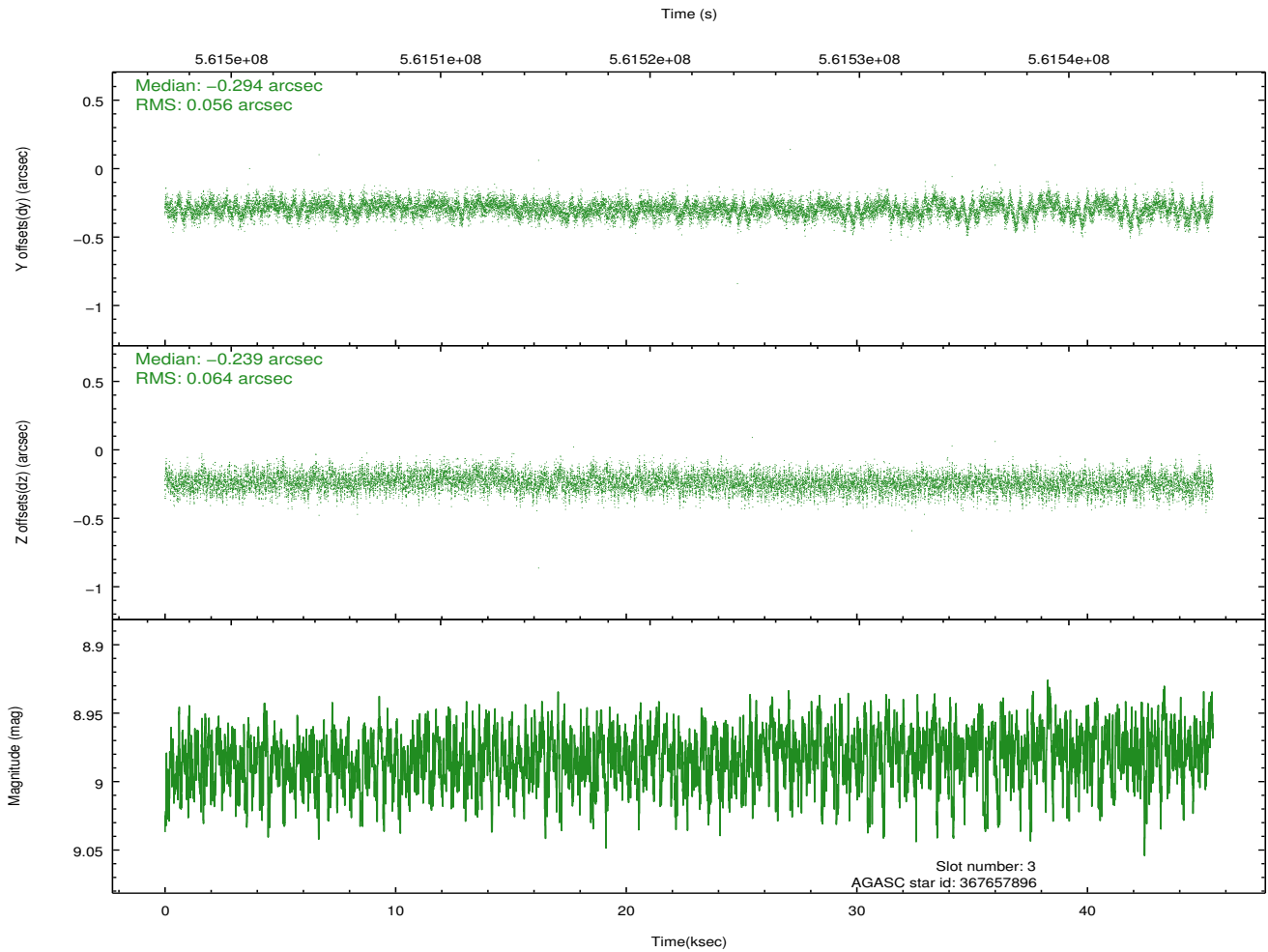
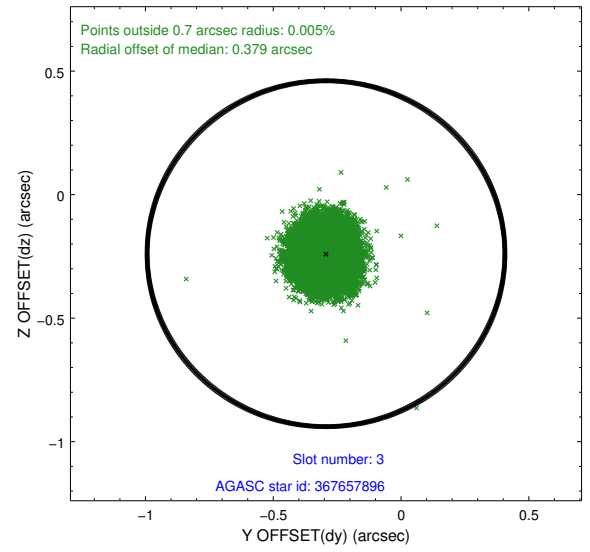
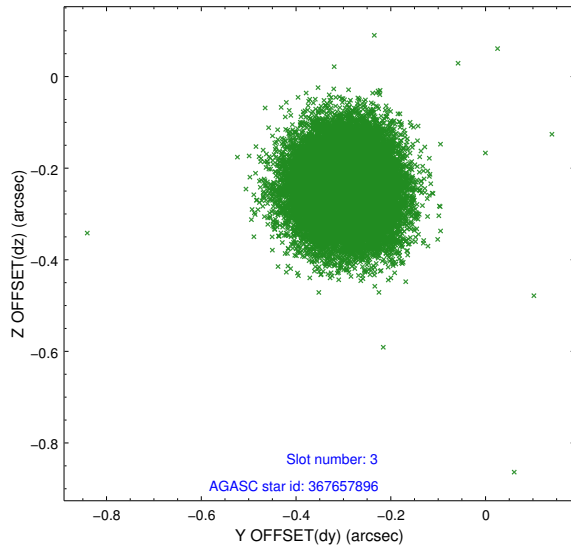


Slot Statistics

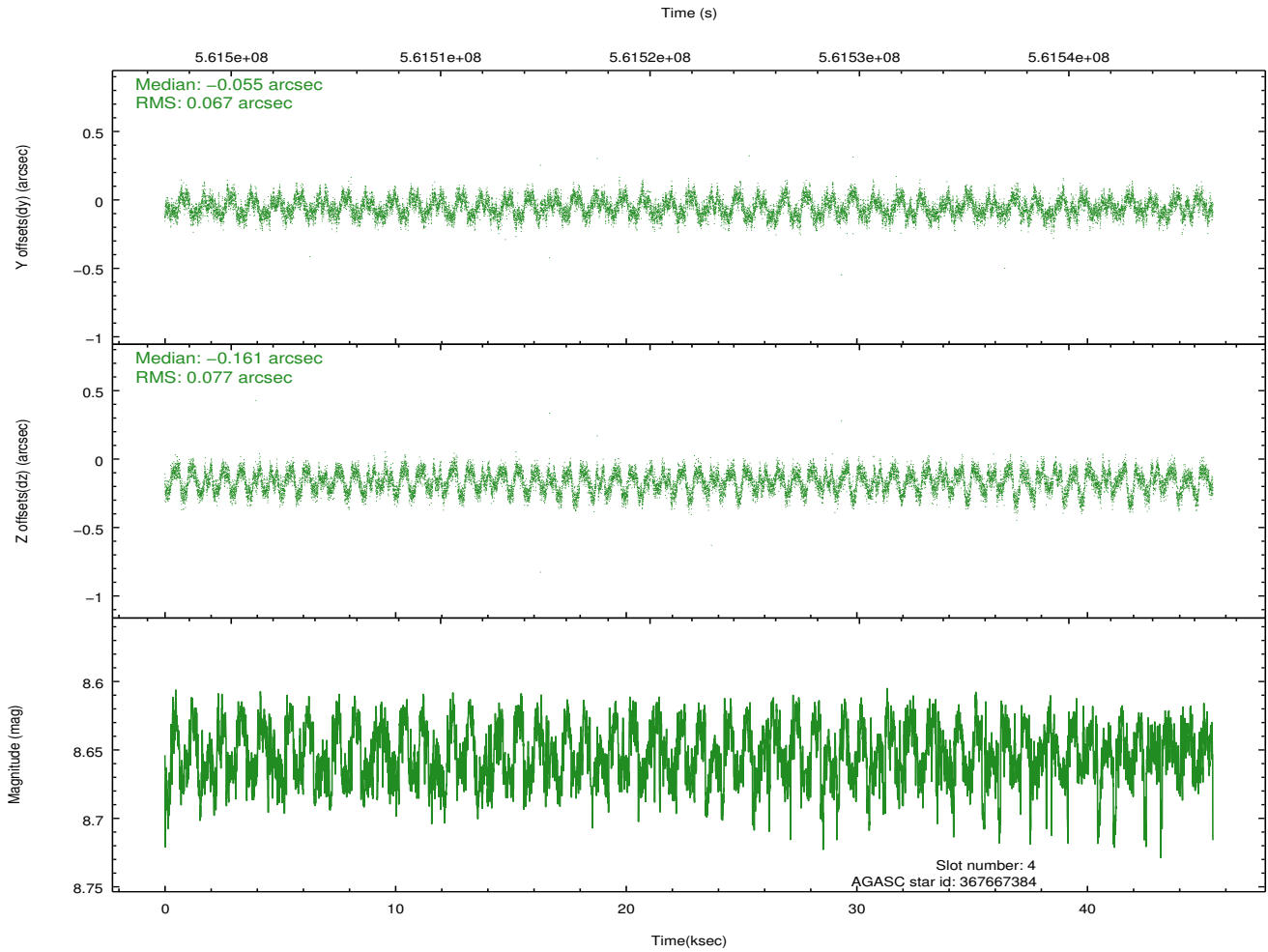
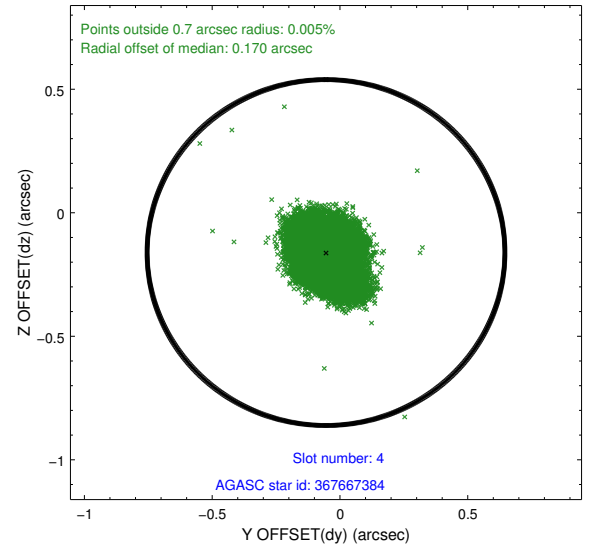
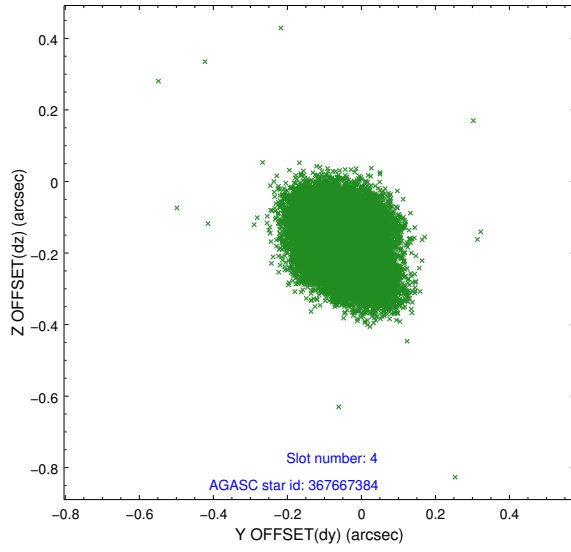
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.25	11086	0.081	-0.036	0.025	0.049	0.000000	0.000000	925.37	-841.43
1	FID		ACIS-I-5	7.27	11086	-0.314	0.055	0.012	0.025	0.000000	0.000000	-1823.17	1056.09
2	FID		ACIS-I-6	7.25	11085	0.142	0.050	0.023	0.037	0.000000	0.000000	390.93	1700.63
3	GUIDE	used	367657896	8.98	22163	-0.294	-0.239	0.090	0.146	11.197765	41.313576	1697.92	1948.59
4	GUIDE	used	367667384	8.65	22160	-0.055	-0.161	0.109	0.171	12.077552	41.596878	-877.73	1749.40
5	GUIDE	used	367667792	9.29	22149	0.373	0.535	0.110	0.175	11.922848	42.739843	-1797.45	-2281.69
6	GUIDE	used	367670520	9.21	22143	0.015	0.072	0.129	0.211	11.265516	42.371946	279.85	-1592.00
7	GUIDE	used	367674552	8.83	22162	-0.040	-0.205	0.078	0.128	11.016238	41.570845	1856.45	913.03

2.4 Star Slots

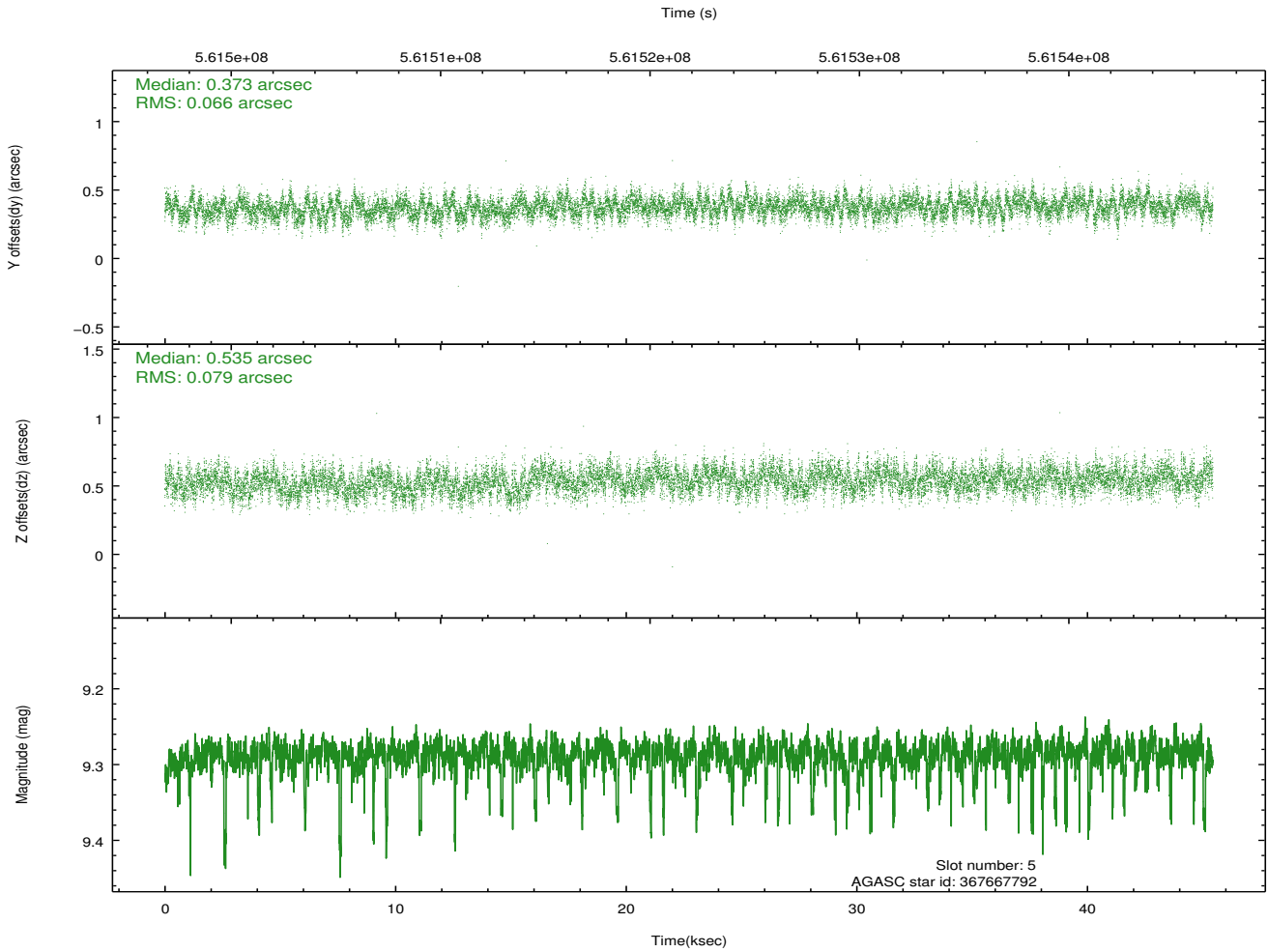
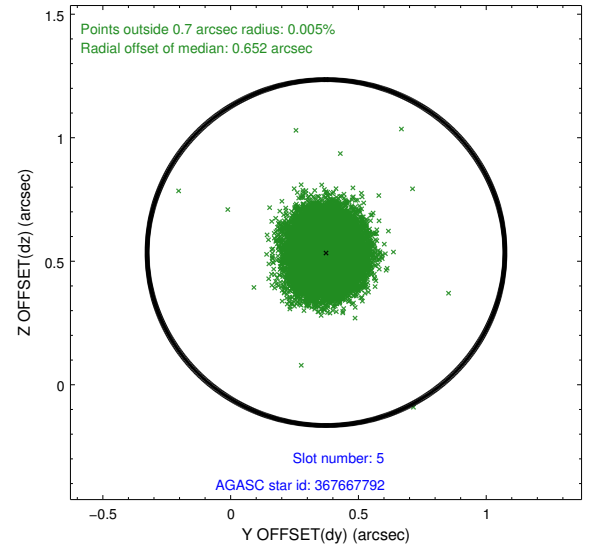
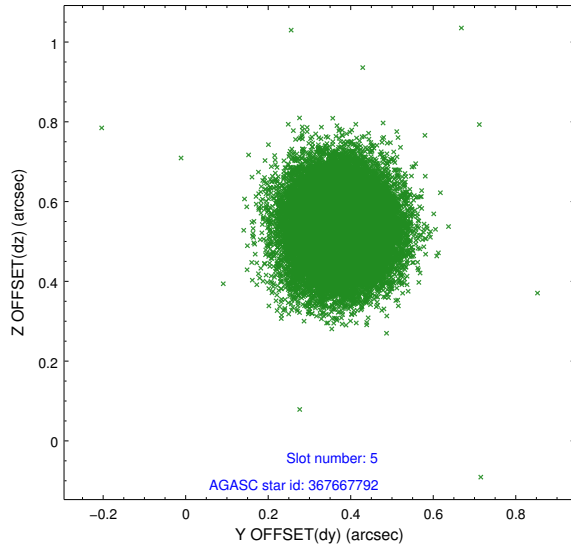
2.4.1 Slot 3



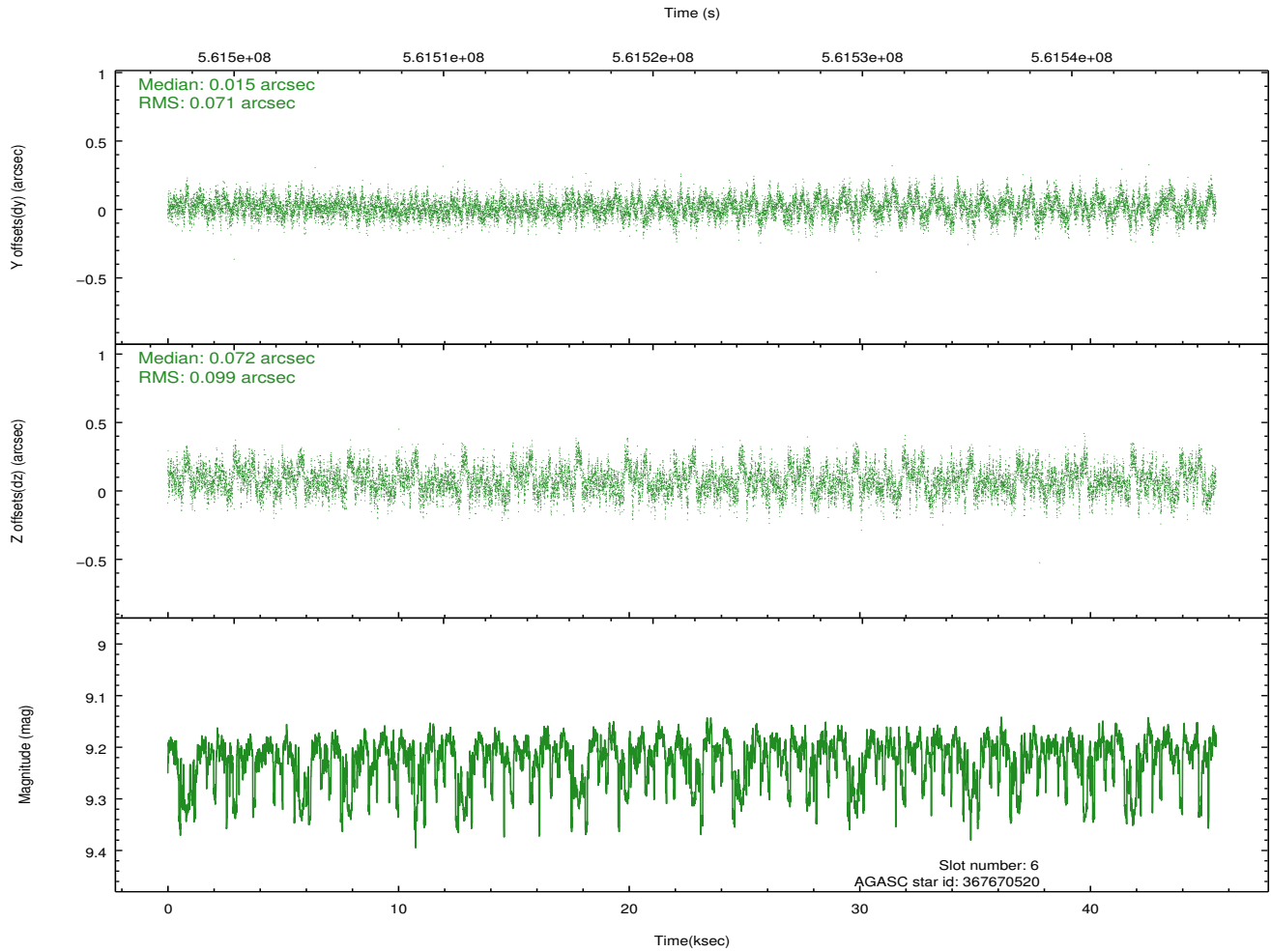
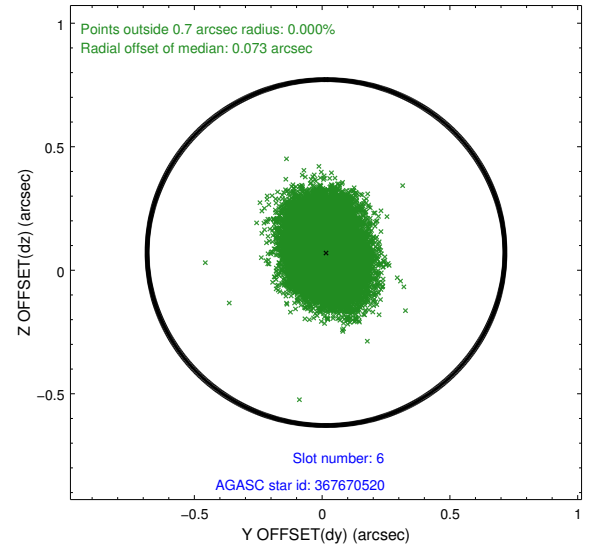
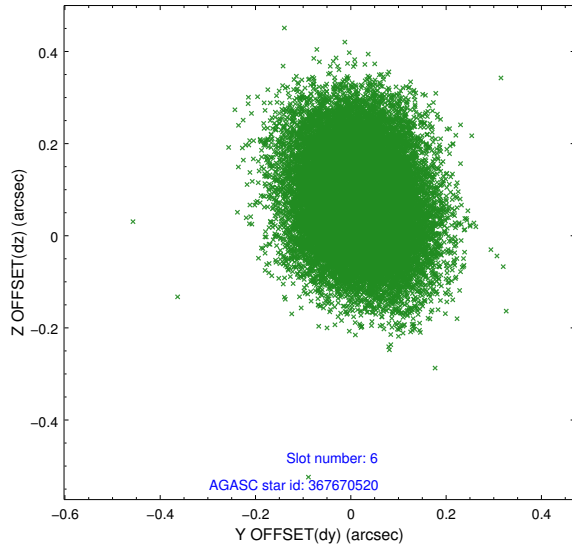
2.4.2 Slot 4



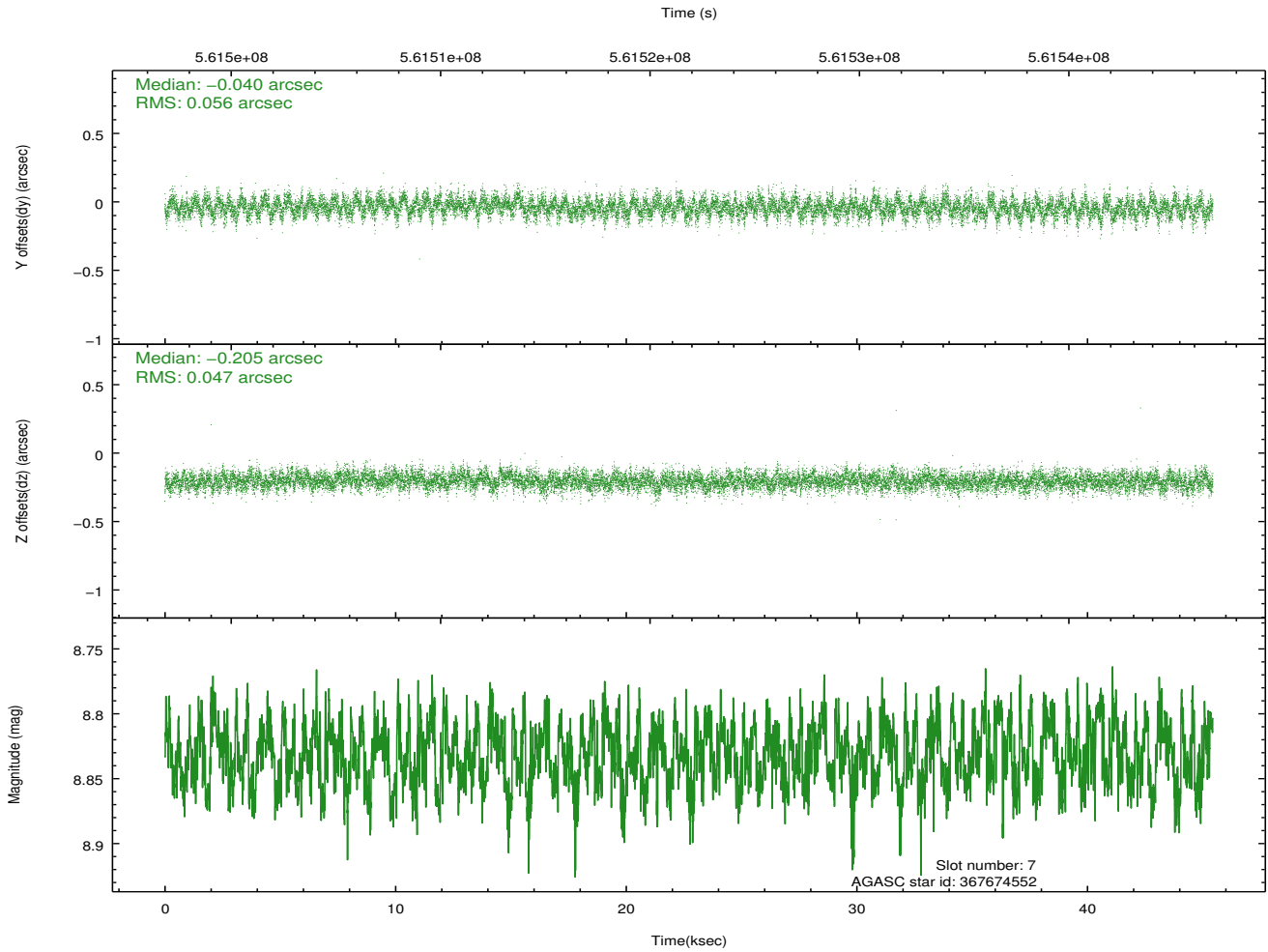
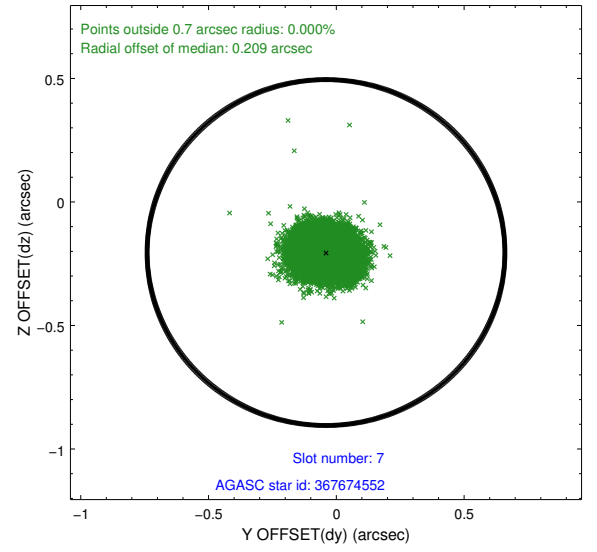
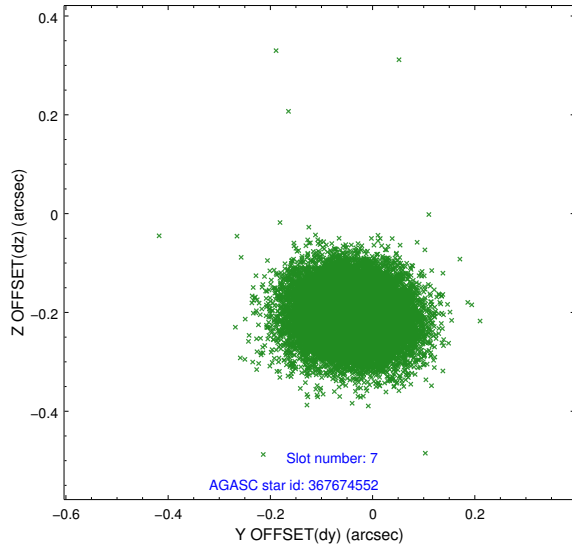
2.4.3 Slot 5



2.4.4 Slot 6

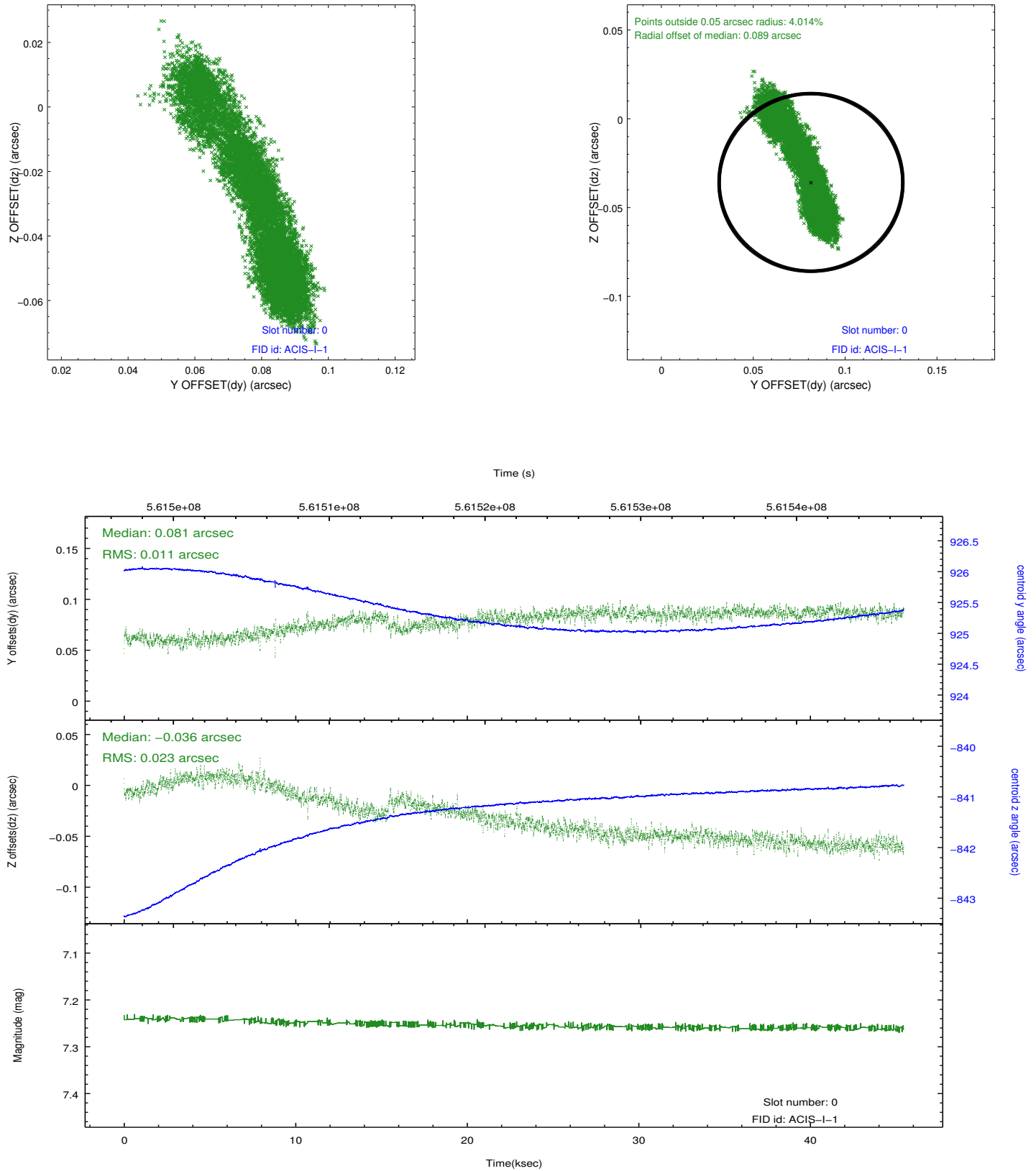


2.4.5 Slot 7

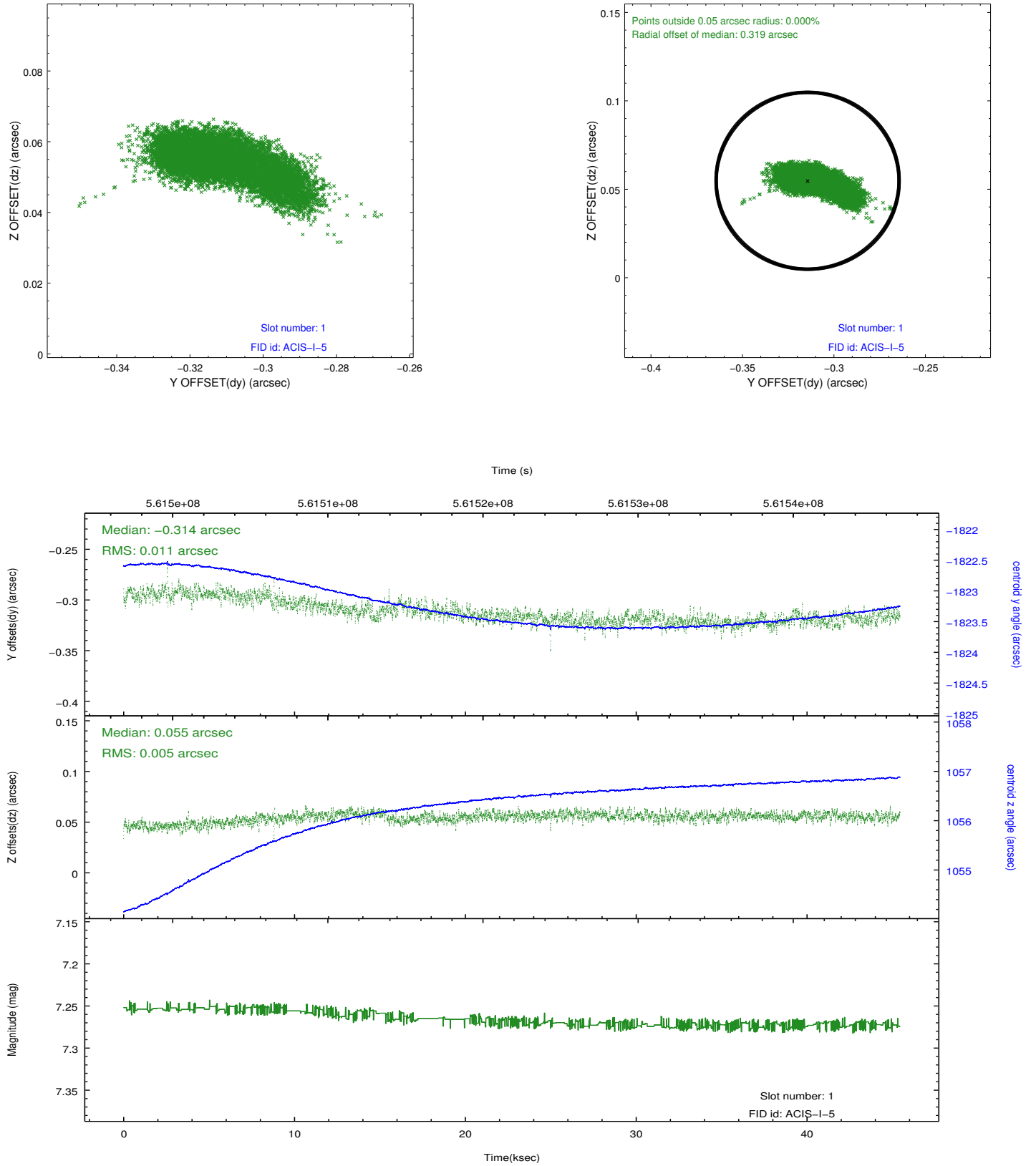


2.5 FID Slots

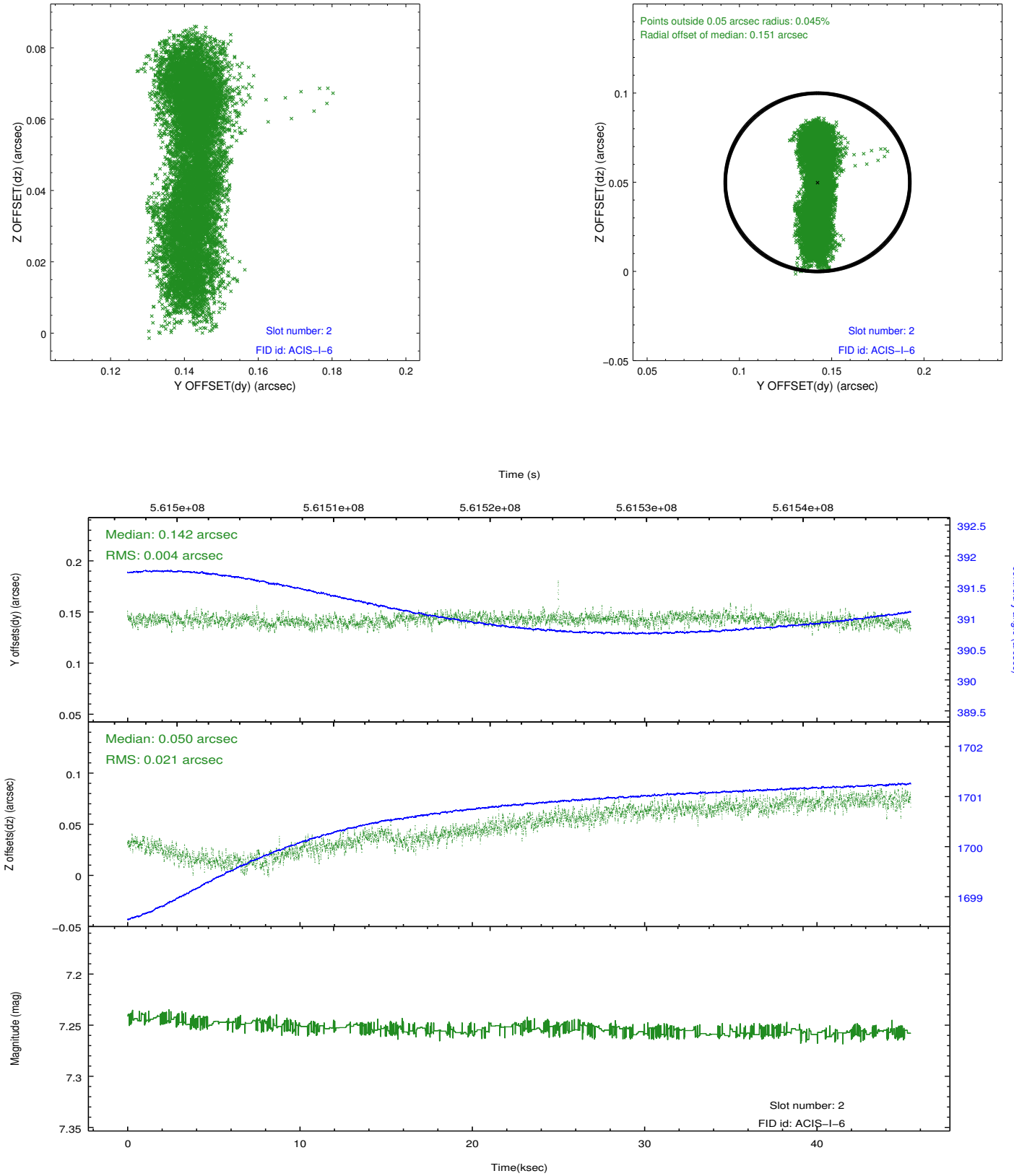
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2015.10.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	45.382652413011

A.2 Comments