

V&V Reference Report

L2 ASCDS Version : 10.4

Observation 17667 - L2 Version 1
Chandra X-Ray Center

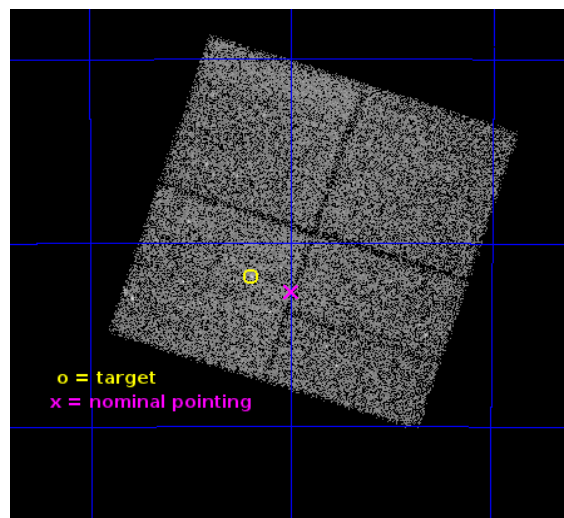
L2 Processing Date : Jul 4 2015

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1 Front

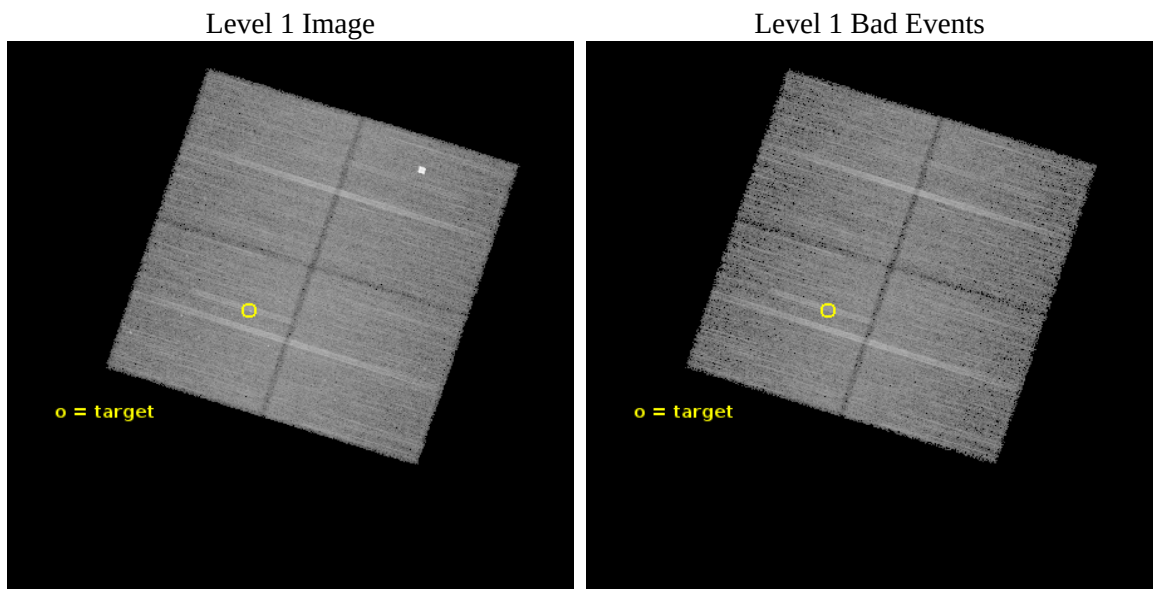
seq_num	601149	Sequence number
obs_id	17667	Observation id
title	Searching for evidence of dwarf galaxy collisions with large spiral galaxies through X-ray emission	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	NGC2442	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	114.099167	Observer's specified target RA [deg]
dec_targ	-69.530833	Observer's specified target Dec [deg]
ra_nom	113.9984898918	Nominal RA [deg]
dec_nom	-69.544841884346	Nominal Dec [deg]
roll_nom	198.11435238047	Nominal Roll [deg]
revision	1	Processing version of data
ontime	40085.751354575	Sum of GTIs [s]
livetime	39562.001502427	Livetime [s]
ontime0	40085.628234625	Sum of GTIs [s]
ontime1	40085.669274569	Sum of GTIs [s]
ontime2	40085.710314631	Sum of GTIs [s]
ontime3	40085.751354575	Sum of GTIs [s]
l2events	81881	Number of level 2 events



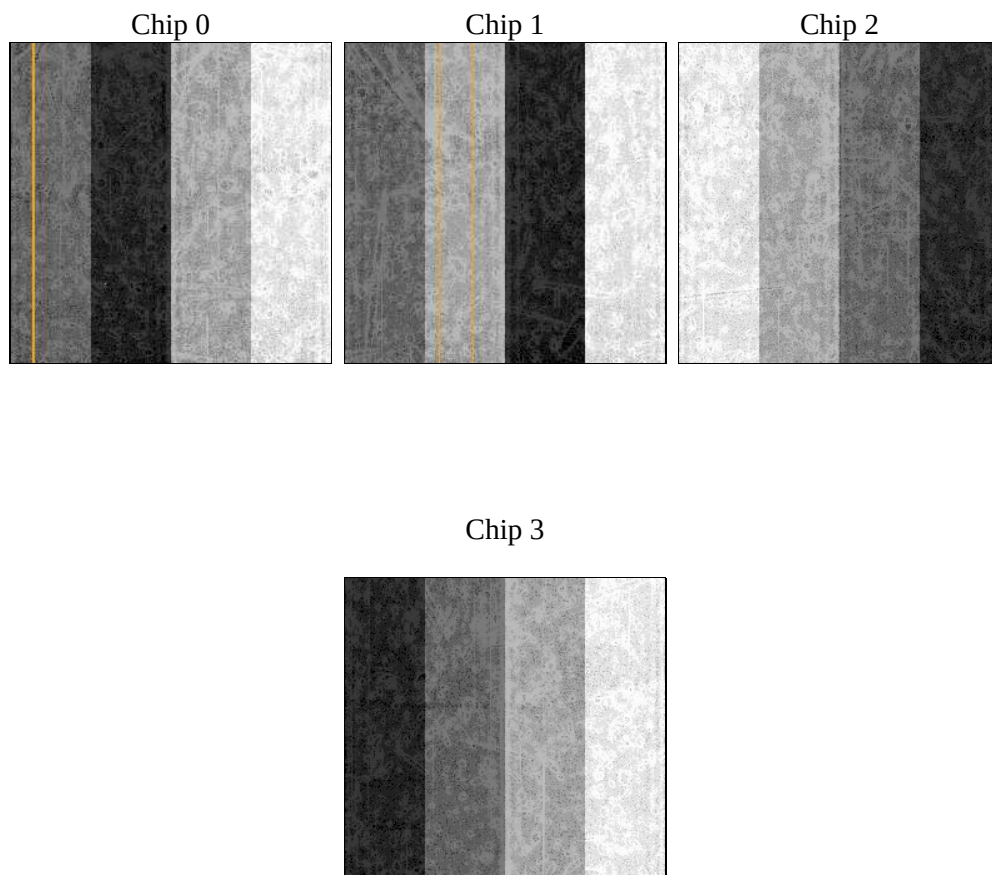
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	40000.000000	[s] Scheduled observation exposure time
ascdsver	10.4	Processing system revision	ontime	40085.751354575	Sum of GTIs [s]
caldsver	4.6.7	 	ontime0	40085.628234625	Sum of GTIs [s]
date	2015-07-04T12:41:23	Date and time of file creation	ontime1	40085.669274569	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	40085.710314631	Sum of GTIs [s]
			ontime3	40085.751354575	Sum of GTIs [s]
			l1events	787490	Number of level 1 events

2.1.4 Events

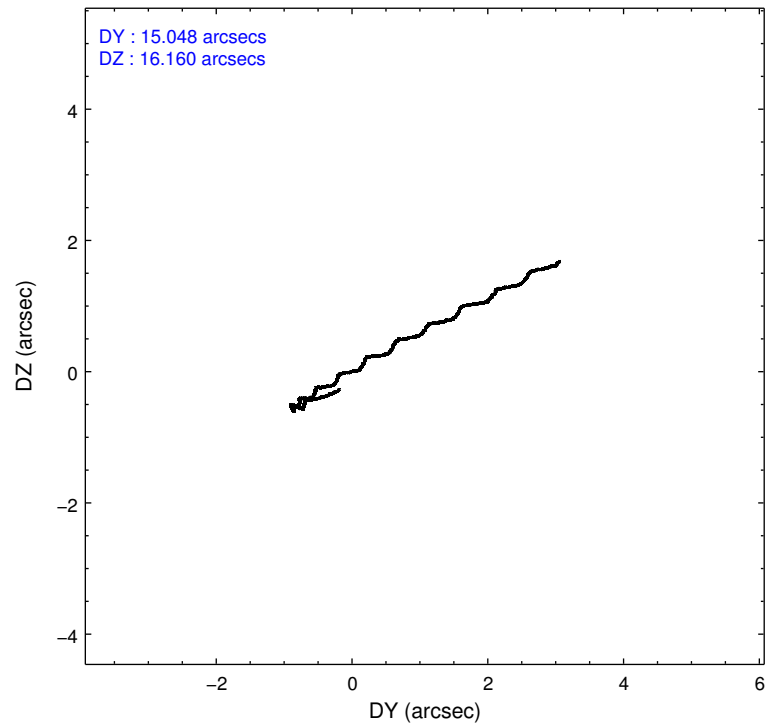
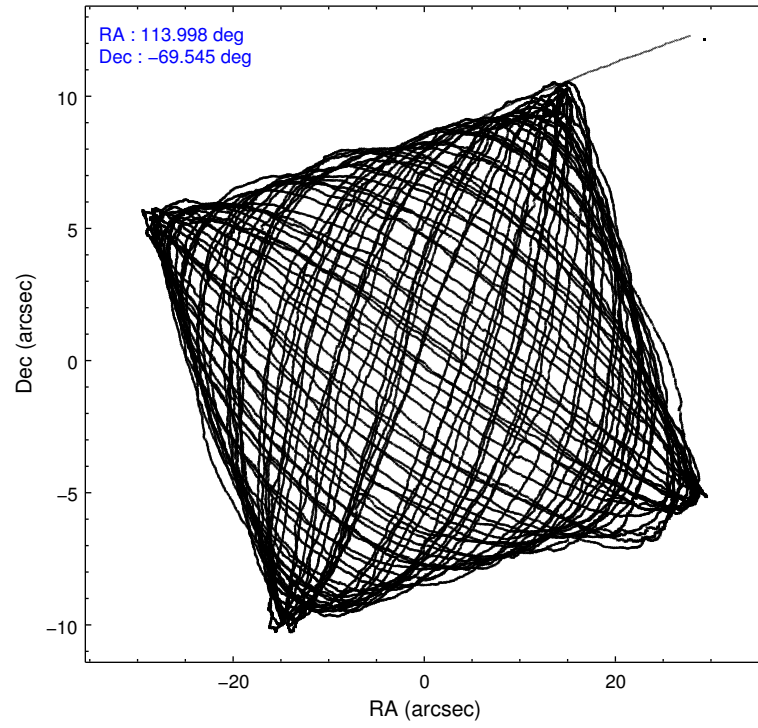
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	195572	187771	202837	201310
rejected events	159395	161072	178935	177020
rejected %	81%	85%	88%	87%

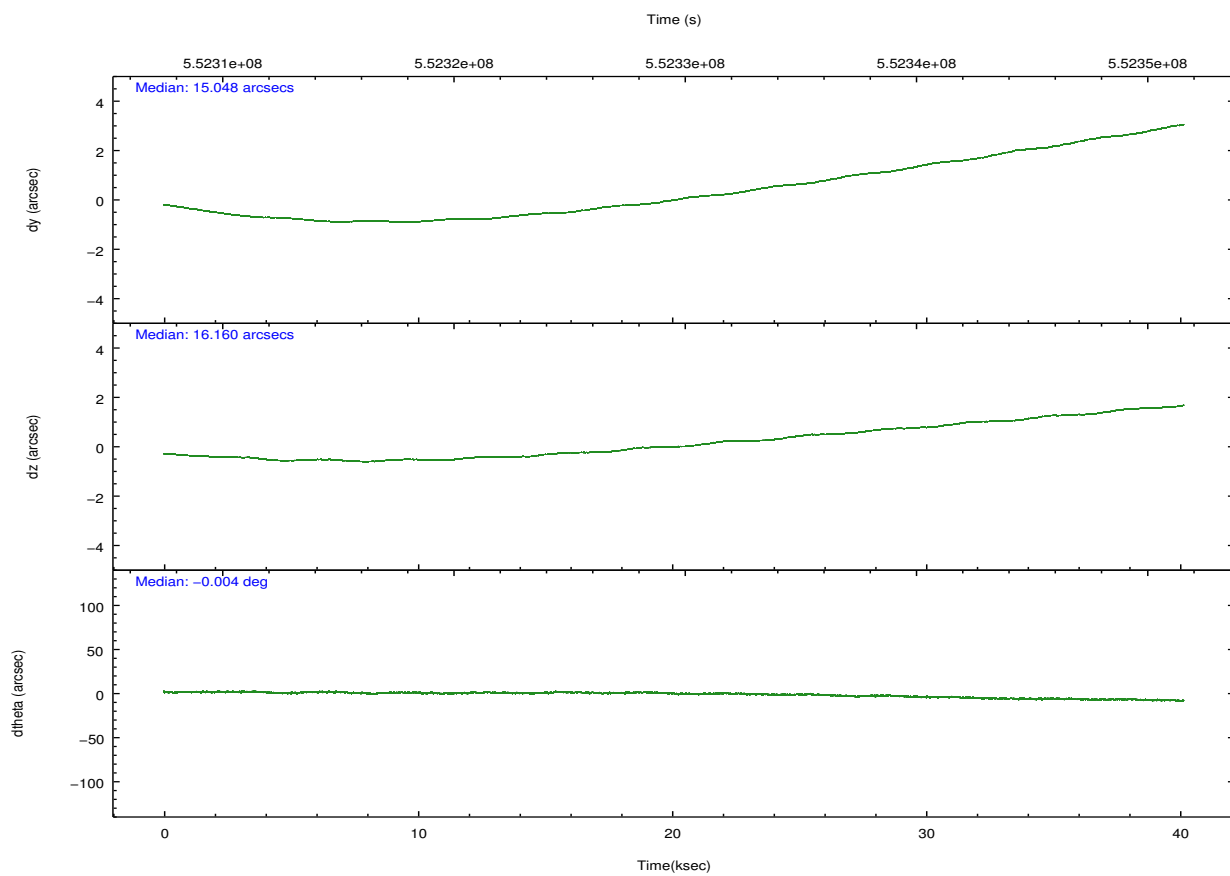
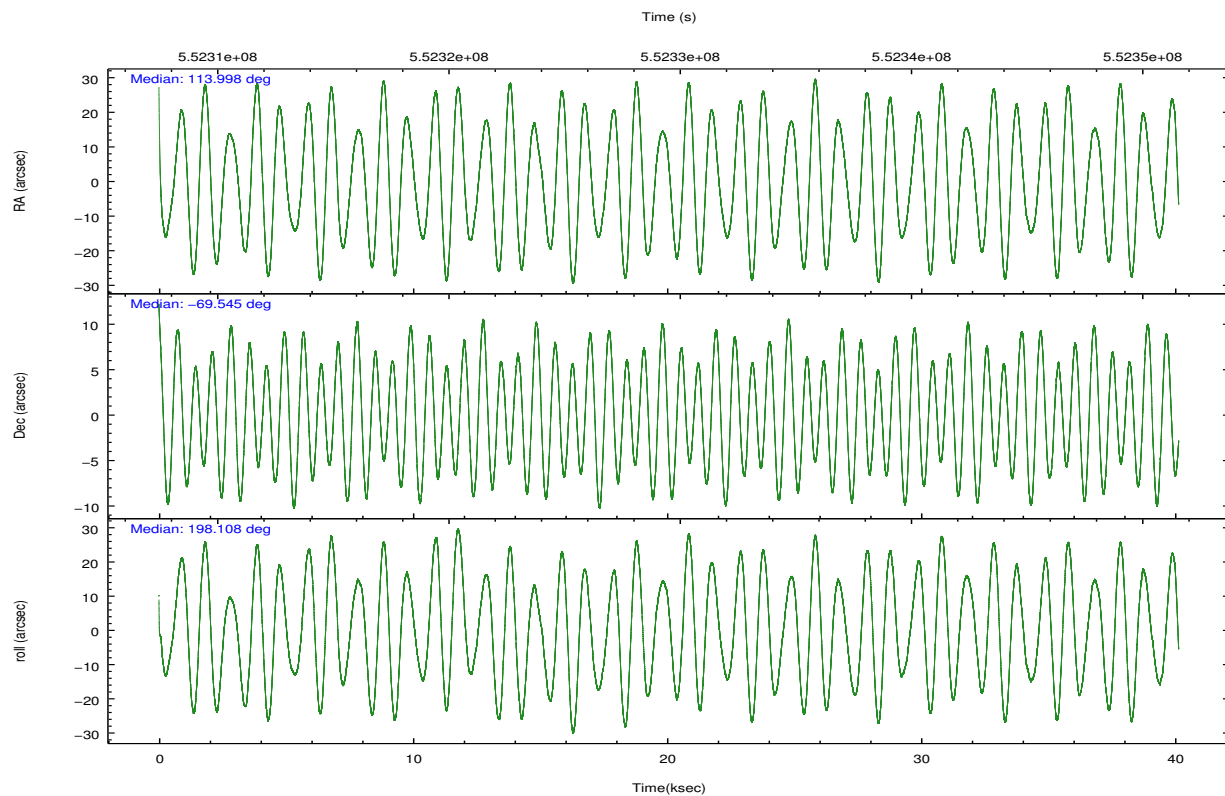
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	20561	9247	8581	9421
	10%	4%	4%	4%
grade 1 events	156	97	126	118
	0%	0%	0%	0%
grade 2 events	6058	6714	5925	5253
	3%	3%	2%	2%
grade 3 events	2366	2541	2333	2405
	1%	1%	1%	1%
grade 4 events	2310	2618	2445	2327
	1%	1%	1%	1%
grade 5 events	9423	9669	8756	10373
	4%	5%	4%	5%
grade 6 events	4890	5582	4620	4887
	2%	2%	2%	2%
grade 7 events	149808	151303	170051	166526
	76%	80%	83%	82%

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	114.050937	113.9984898917952	Subarray requested	NONE	NONE
[deg] Pointing Dec	-69.524206	-69.54484188434576	Alternating exposures requested	N	N
[deg] Pointing Roll	197.954809	198.1143523804697	[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	-225.592463	-225.5818545406617			
[mm] SIM translation stage offset	-8	-8.010598462268035			
[s] Observation start time (MET)	552309556.184000	552308394.9396			
Observation start date	2015-07-03T11:18:08	2015-07-03T10:59:54			
[s] Observation end time (MET)	552349556.184000	552350388.16697			
Observation end date	2015-07-03T22:24:48	2015-07-03T22:39:48			
Read mode	TIMED	TIMED			

2.3 Aspect



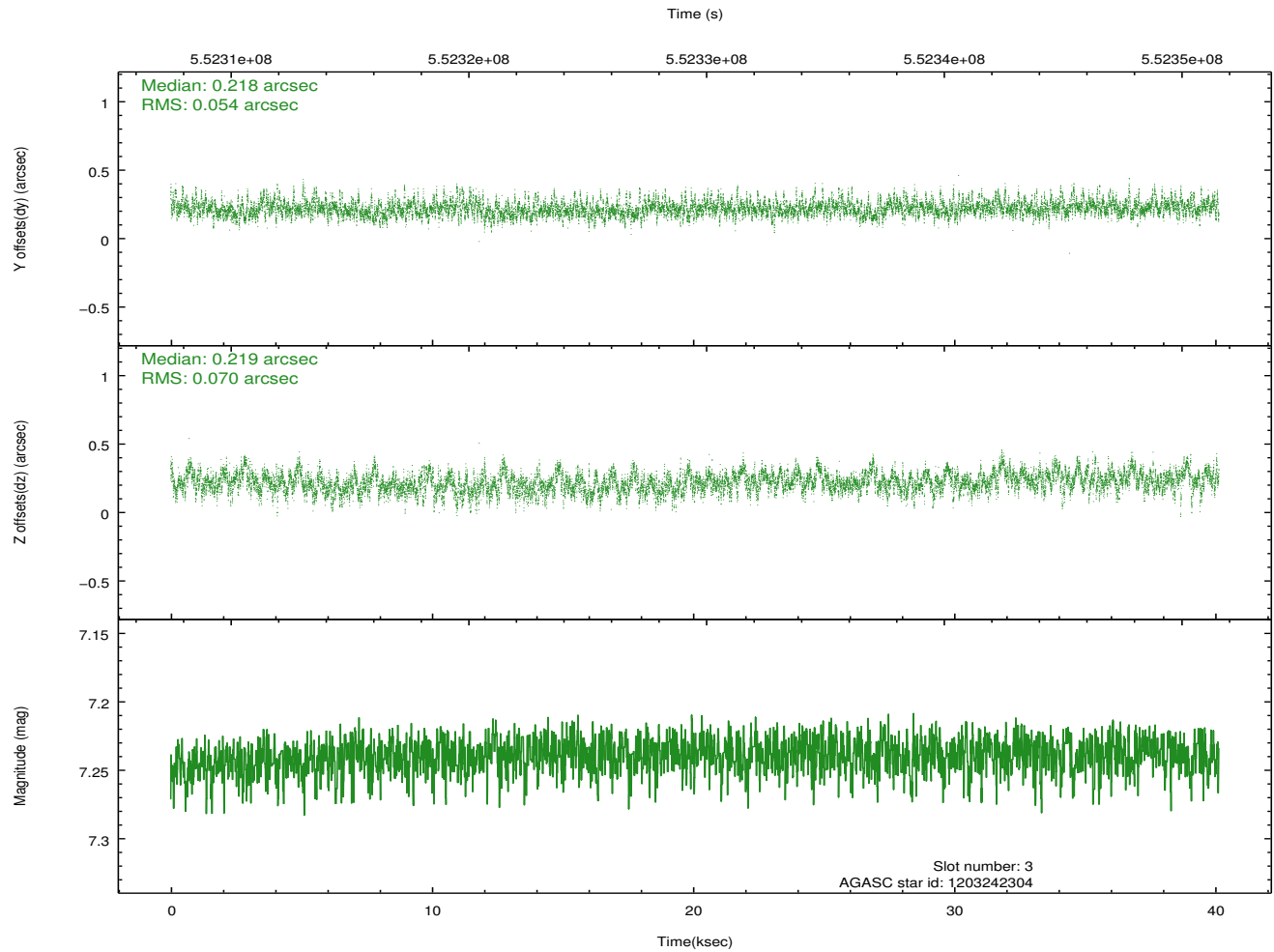
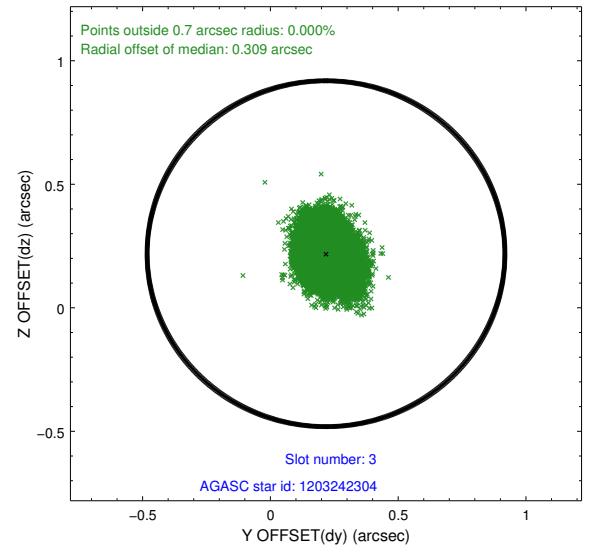
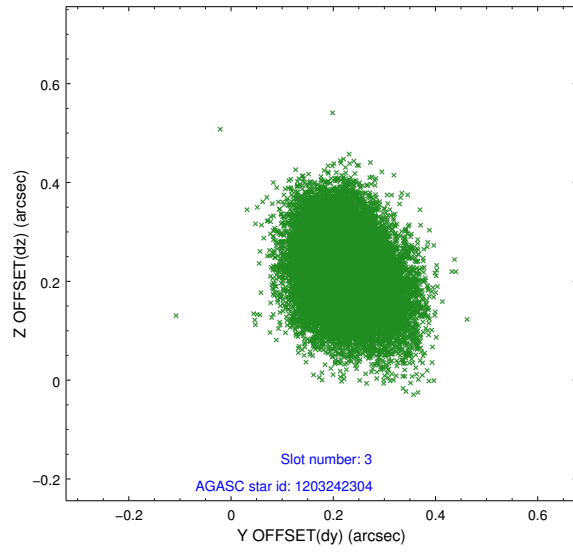


Slot Statistics

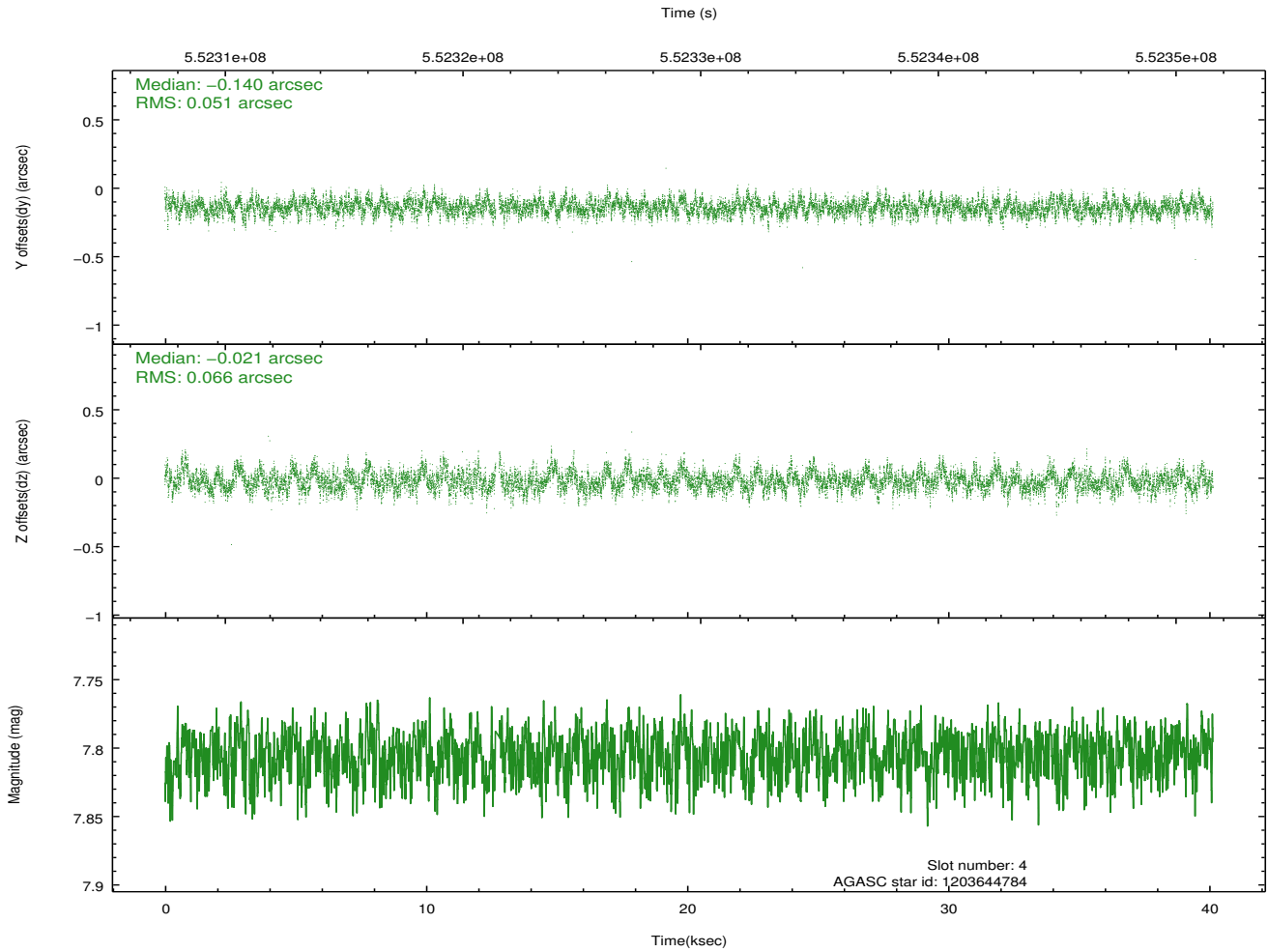
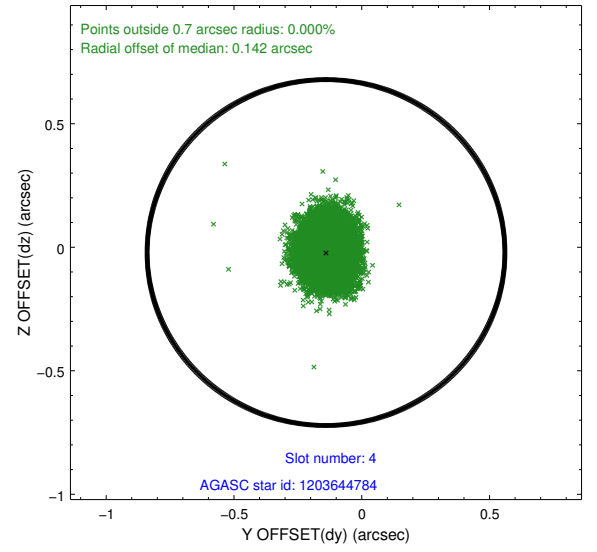
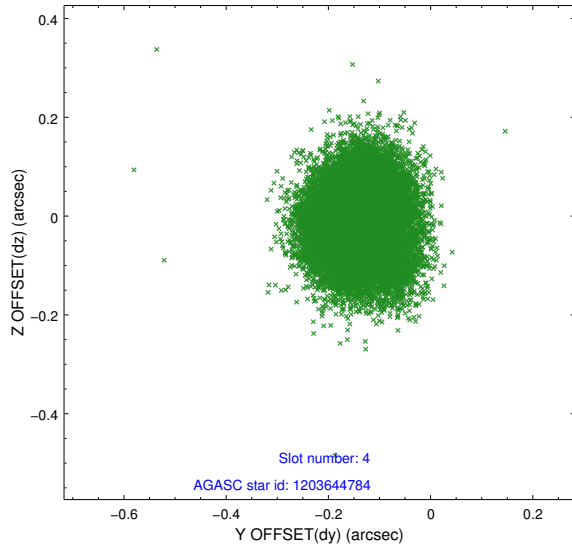
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.07	9792	0.163	-0.137	0.021	0.045	0.000000	0.000000	924.03	-1004.56
1	FID		ACIS-I-5	7.07	9791	-0.333	0.123	0.020	0.032	0.000000	0.000000	-1824.63	893.06
2	FID		ACIS-I-6	7.09	9792	0.077	0.088	0.040	0.056	0.000000	0.000000	389.38	1537.62
3	GUIDE	used	1203242304	7.24	19580	0.218	0.219	0.093	0.157	114.080234	-69.056539	-554.55	-1589.96
4	GUIDE	used	1203644784	7.80	19518	-0.140	-0.021	0.088	0.143	113.428027	-69.891181	1141.48	1022.97
5	GUIDE	used	1203768944	8.85	19573	0.030	-0.046	0.125	0.209	114.491219	-70.068135	89.90	2030.68
6	GUIDE	used	1203782728	6.67	19582	0.001	0.118	0.092	0.151	116.054242	-69.821595	-2023.28	1823.77
7	GUIDE	used	1203644696	8.59	19580	-0.110	-0.273	0.114	0.179	113.755728	-70.243391	1139.95	2352.45

2.4 Star Slots

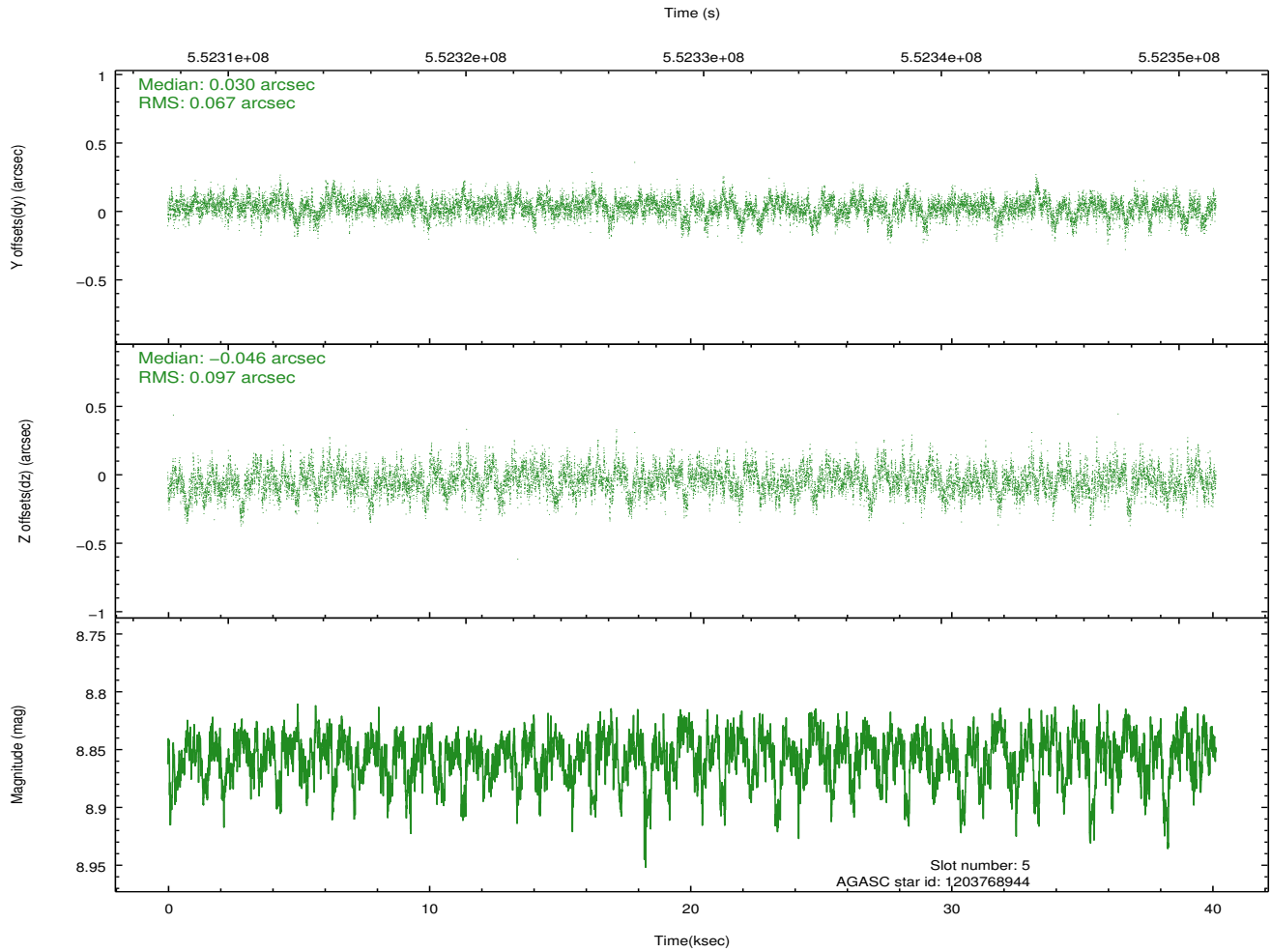
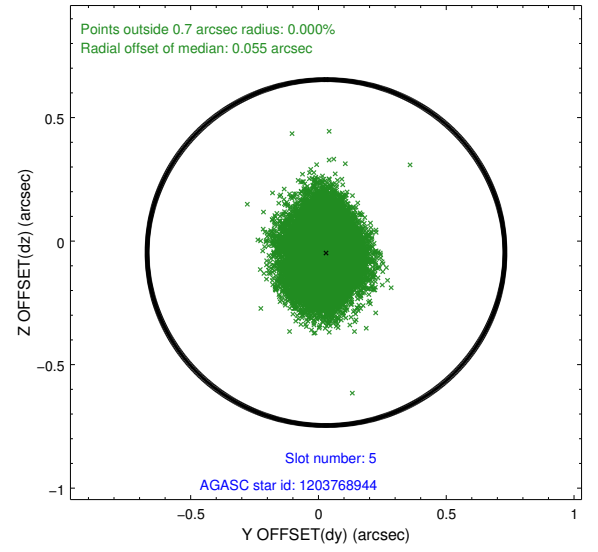
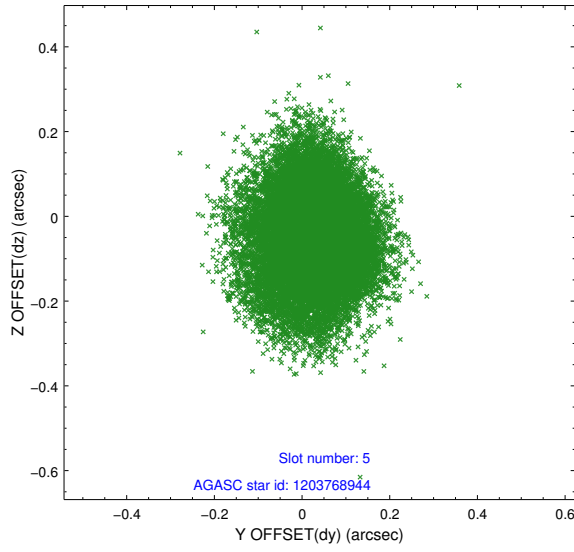
2.4.1 Slot 3



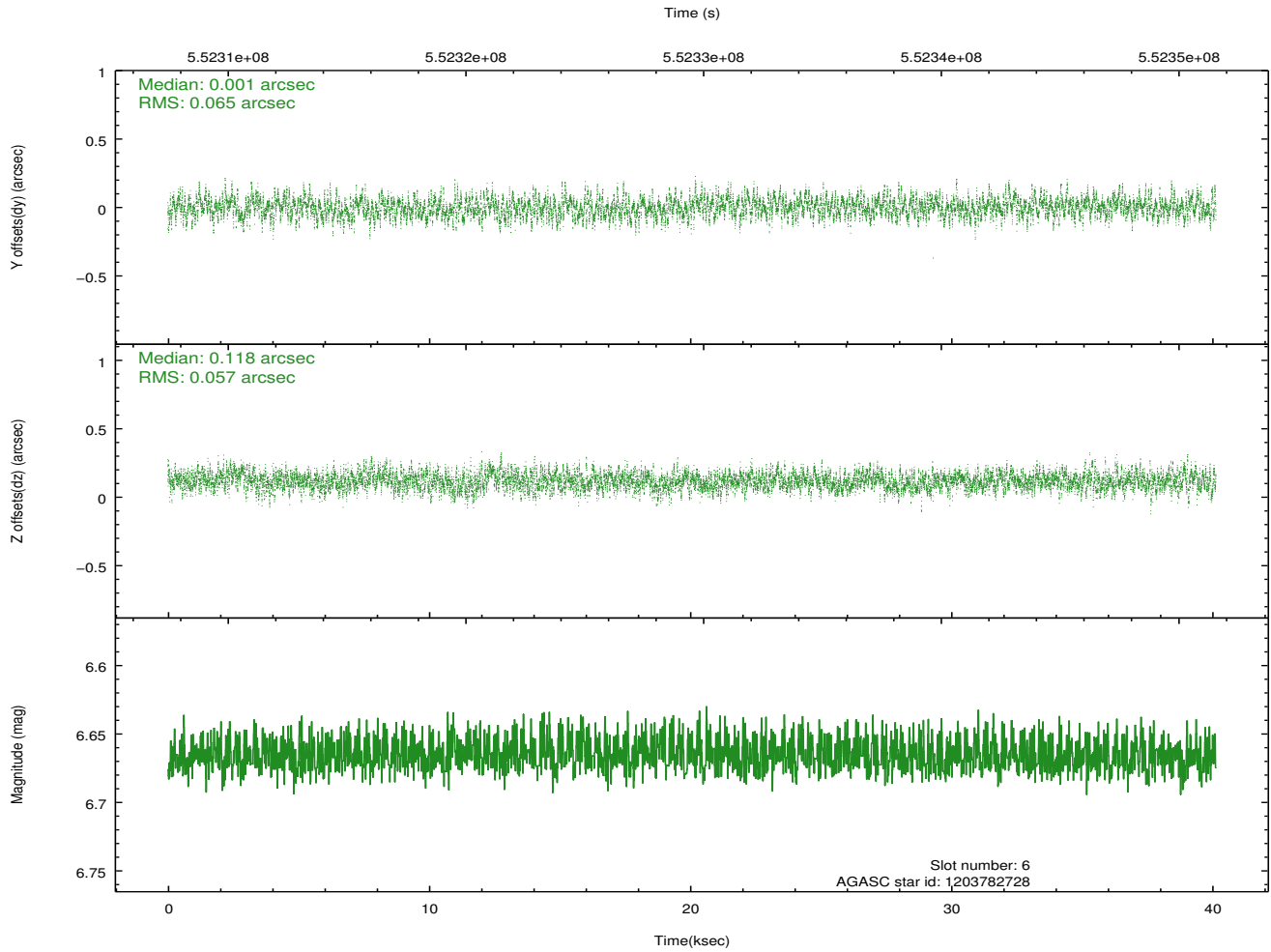
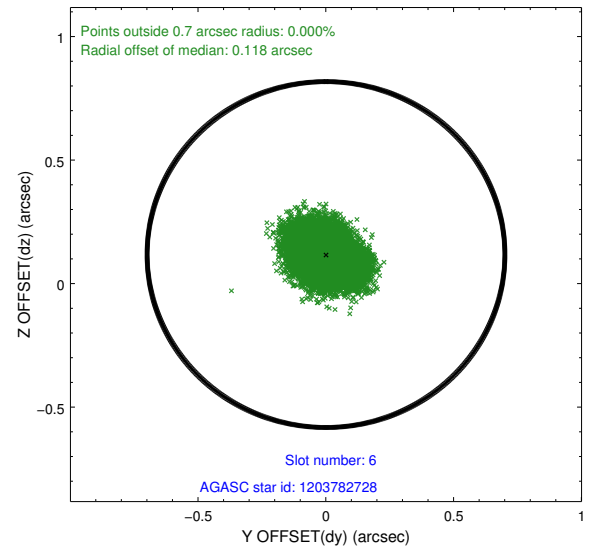
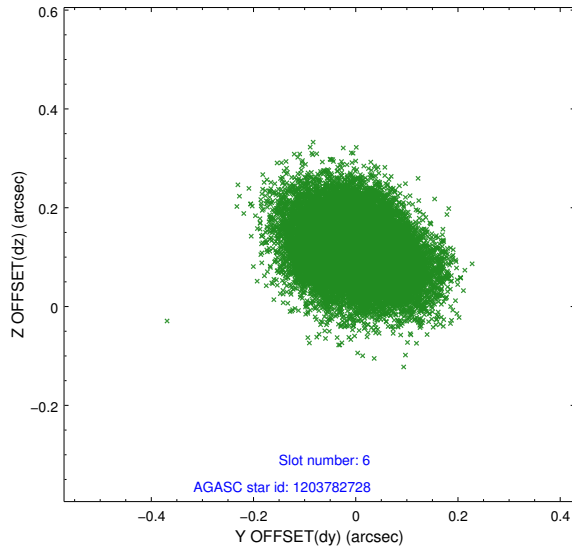
2.4.2 Slot 4



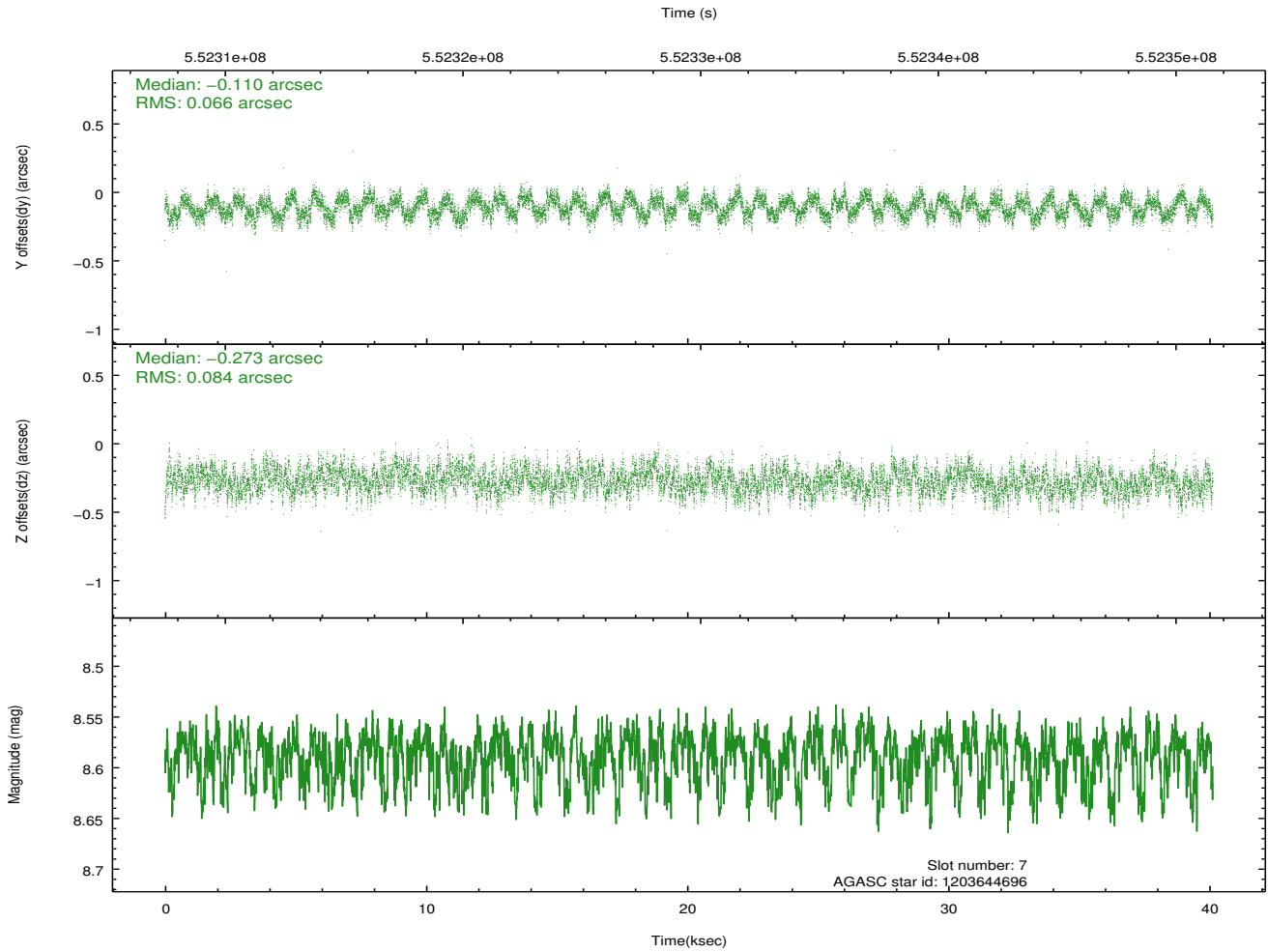
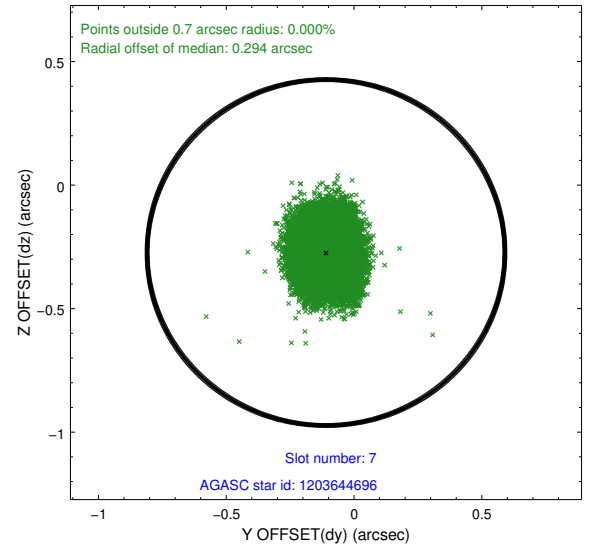
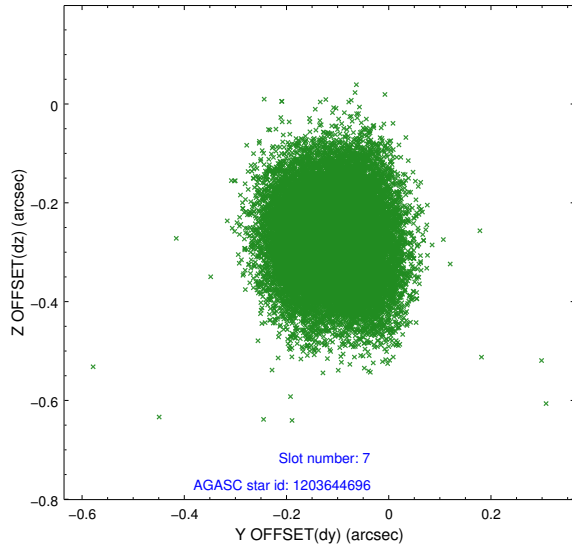
2.4.3 Slot 5



2.4.4 Slot 6

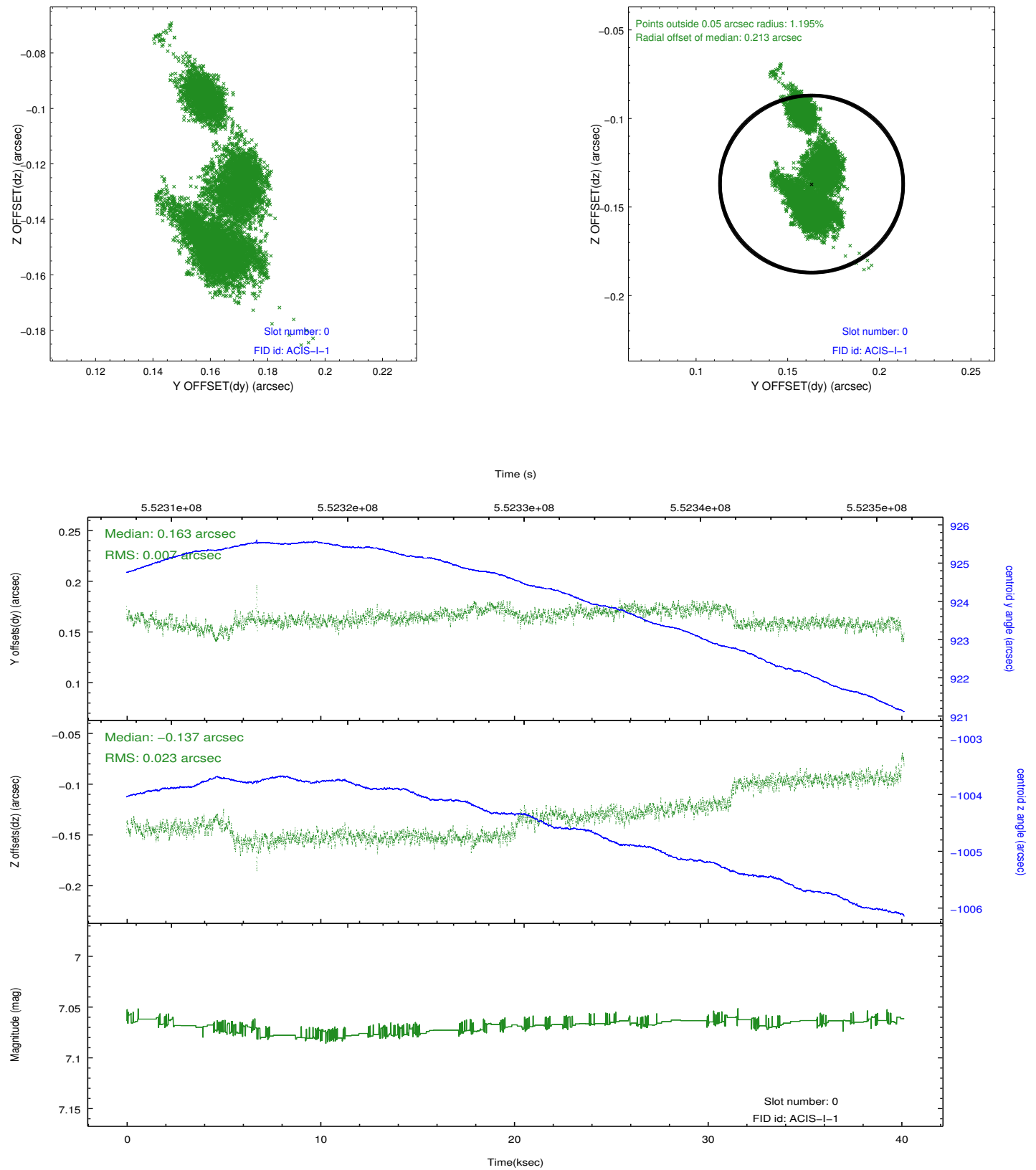


2.4.5 Slot 7

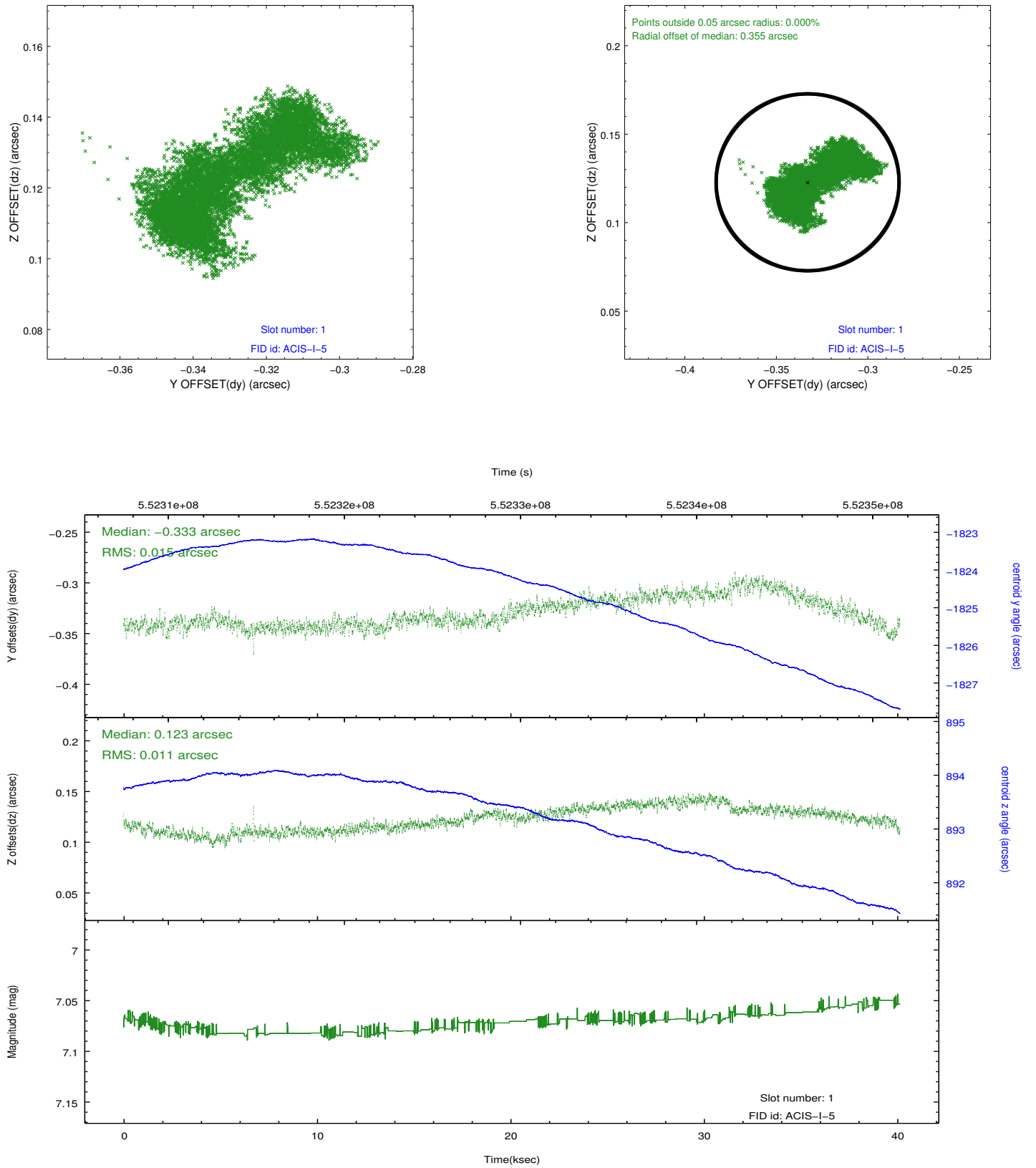


2.5 FID Slots

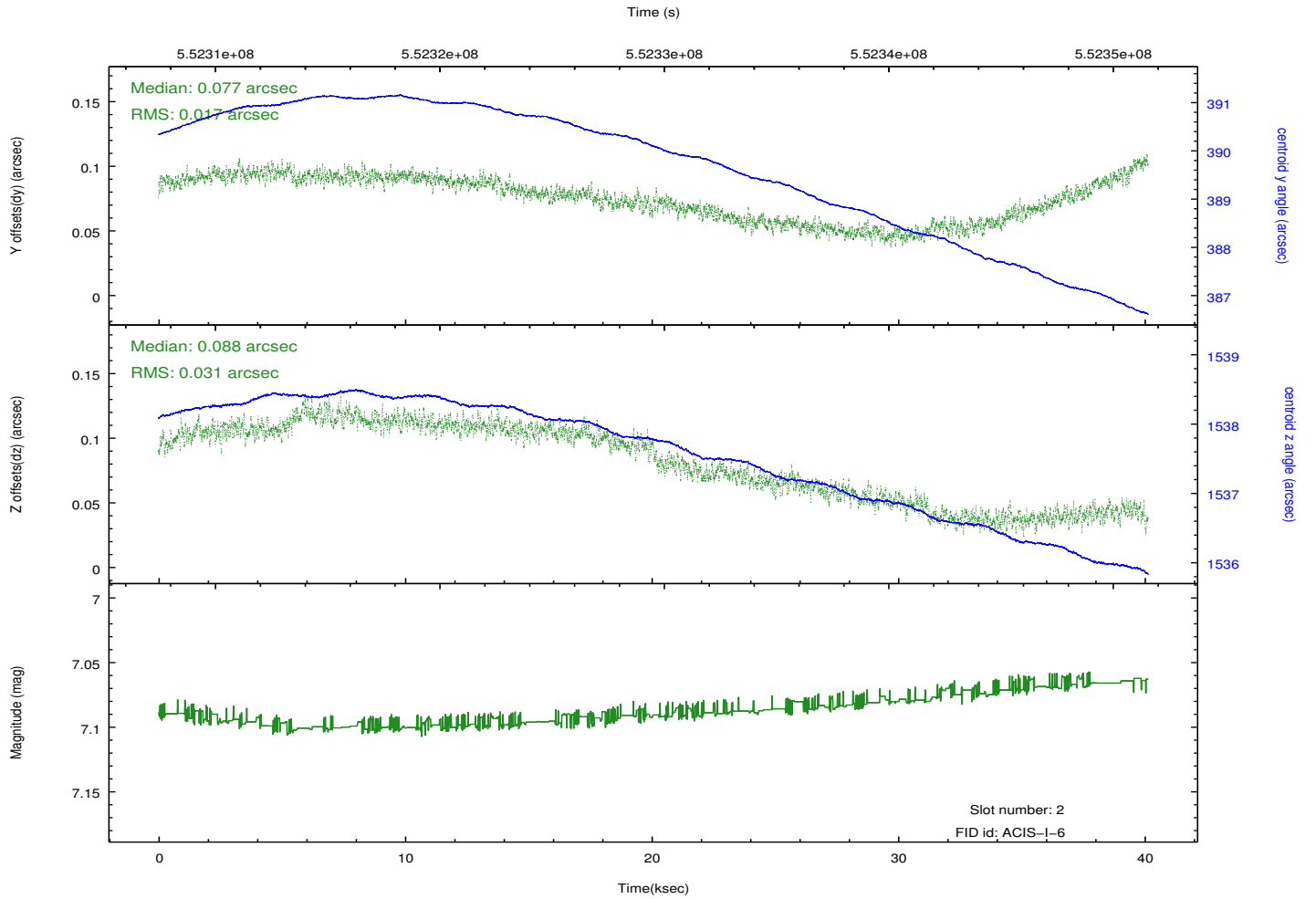
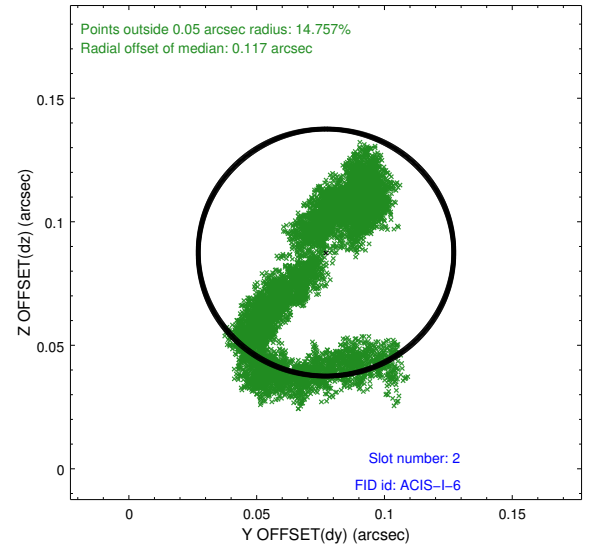
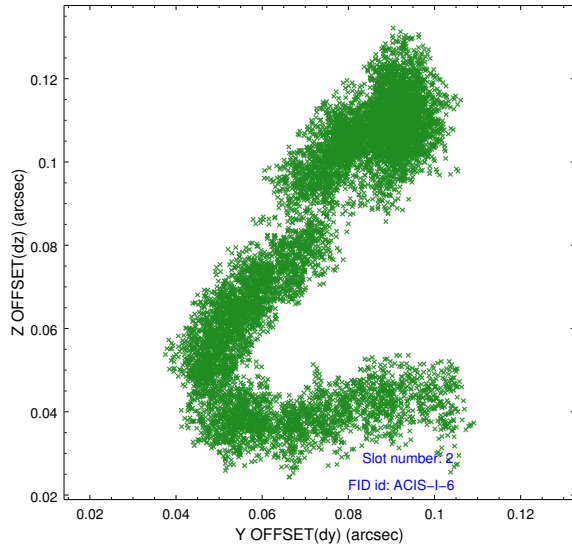
2.5.1 Slot 0



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)	2015.07.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.085751354575

A.2 Comments