

V&V Reference Report

L2 ASCDS Version : 10.2.4

Observation 16353 - L2 Version 1
Chandra X-Ray Center

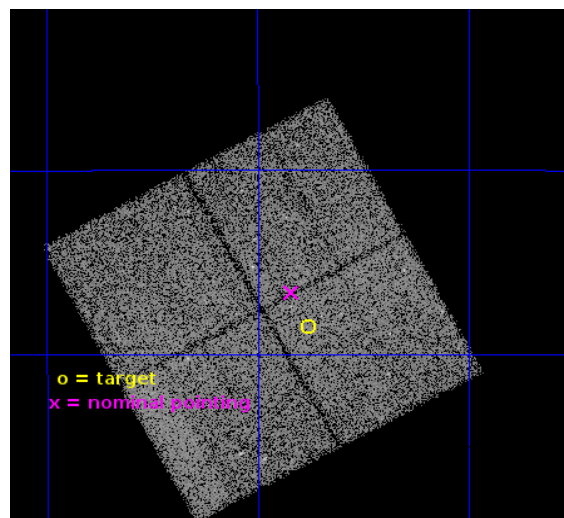
L2 Processing Date : Jul 31 2014

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1 Front

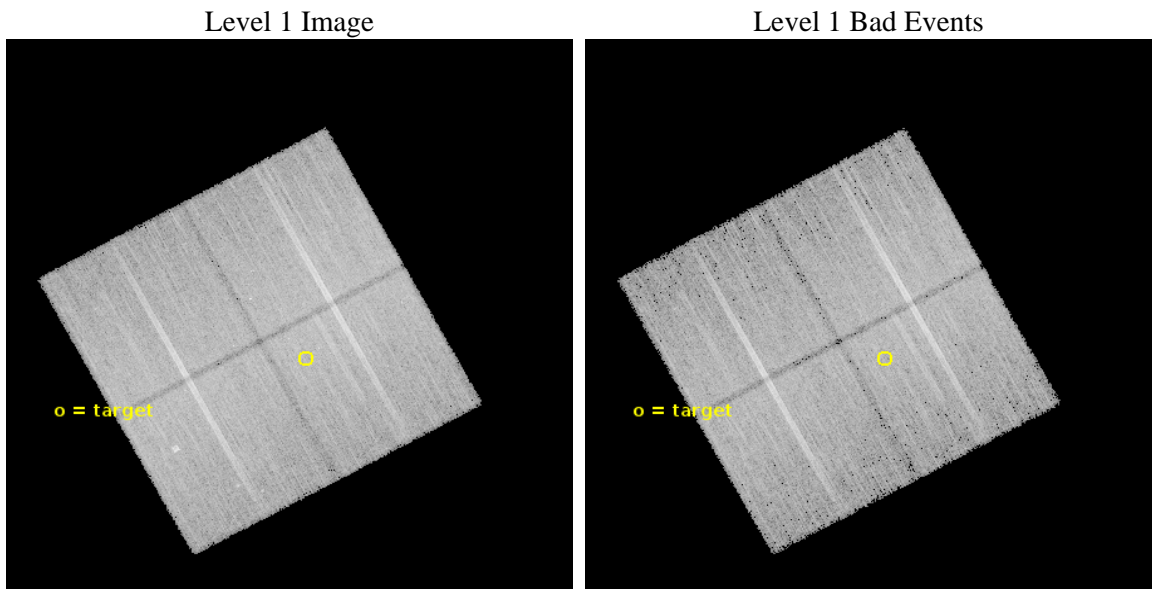
seq_num	601153	Sequence number
obs_id	16353	Observation id
title	Searching for evidence of dwarf galaxy collisions with large spiral galaxies through X-ray emission	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	NGC7412	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	343.940417	Observer's specified target RA [deg]
dec_targ	-42.642056	Observer's specified target Dec [deg]
ra_nom	343.96003835543	Nominal RA [deg]
dec_nom	-42.610663644939	Nominal Dec [deg]
roll_nom	61.410942548321	Nominal Roll [deg]
revision	1	Processing version of data
ontime	49785.874920785	Sum of GTIs [s]
livetime	49135.385813117	Livetime [s]
ontime0	49785.751820683	Sum of GTIs [s]
ontime1	49788.933881223	Sum of GTIs [s]
ontime2	49788.974921227	Sum of GTIs [s]
ontime3	49785.874920785	Sum of GTIs [s]
l2events	96130	Number of level 2 events



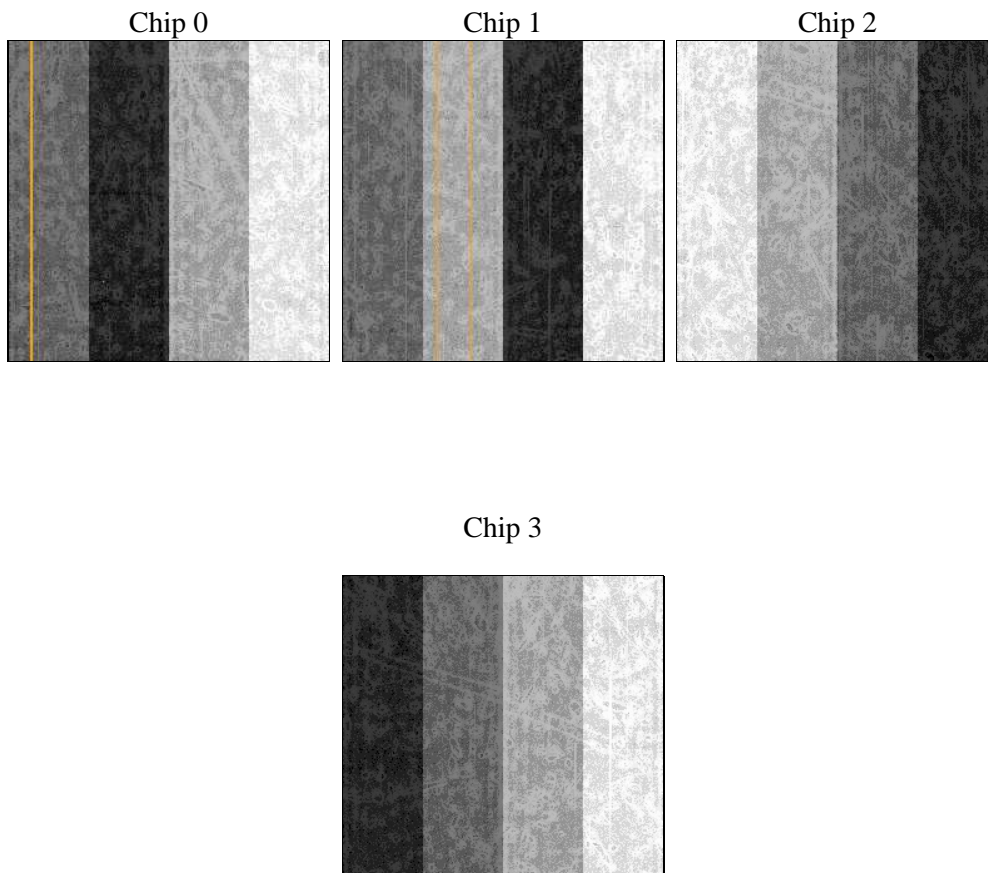
2 OBI

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	10.2.4	Processing system revision	ontime	49785.874920785	Sum of GTIs [s]
caldsver	4.6.2	 	ontime0	49785.751820683	Sum of GTIs [s]
date	2014-07-31T17:25:42	Date and time of file creation	ontime1	49788.933881223	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	49788.974921227	Sum of GTIs [s]
			ontime3	49785.874920785	Sum of GTIs [s]
			l1events	912275	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	214600	225208	238917	233550
rejected events	186336	193080	210997	206284
rejected %	86%	85%	88%	88%

	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	9530	11761	9799	9423
	4%	5%	4%	4%
grade 1 events	145	103	117	138
	0%	0%	0%	0%
grade 2 events	7127	7459	6906	6159
	3%	3%	2%	2%
grade 3 events	3015	3116	2785	2934
	1%	1%	1%	1%
grade 4 events	2636	2991	2795	2990
	1%	1%	1%	1%
grade 5 events	11712	12323	10961	13229
	5%	5%	4%	5%
grade 6 events	5956	6808	5638	5763
	2%	3%	2%	2%
grade 7 events	174479	180647	199916	192914
	81%	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	343.961102	343.9600383554258	Subarray requested	NONE	NONE
[deg] Pointing Dec	-42.638247	-42.61066364493882	Alternating exposures requested	N	N
[deg] Pointing Roll	61.202976	61.41094254832078	[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	-230.592463	-230.5928849366707			
[mm] SIM translation stage offset	-3	-2.999568066258945			
[s] Observation start time (MET)	523103160.184000	523102194.49703			
Observation start date	2014-07-30T10:24:53	2014-07-30T10:09:54			
[s] Observation end time (MET)	523153160.184000	523153884.22489			
Observation end date	2014-07-31T00:18:13	2014-07-31T00:31:24			
Read mode	TIMED	TIMED			

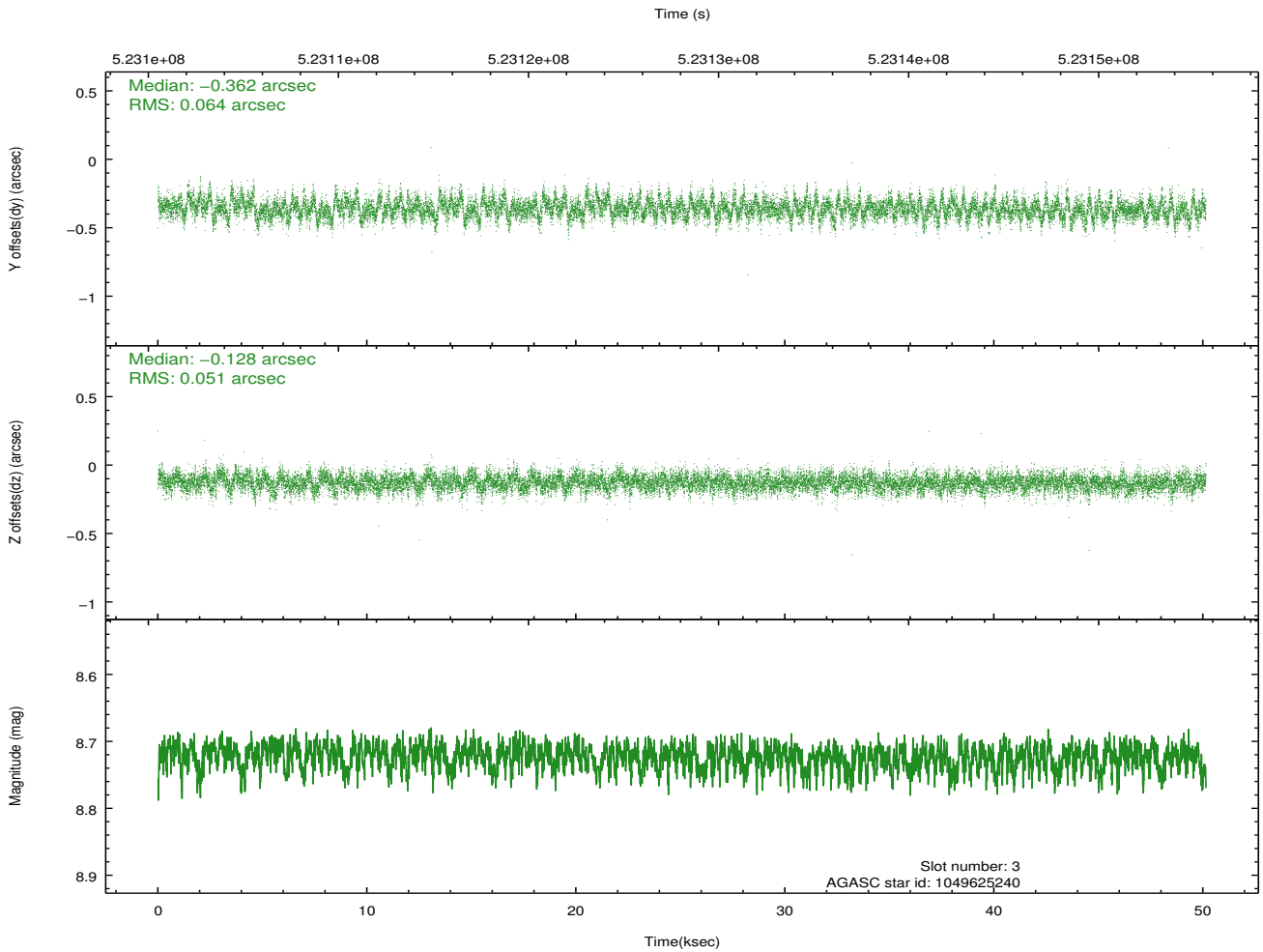
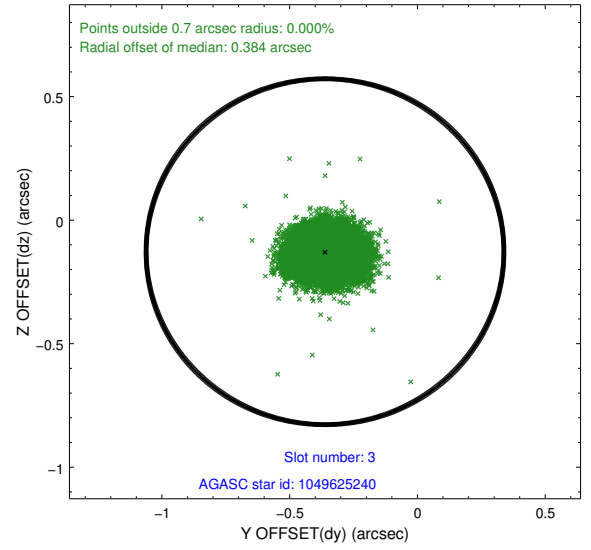
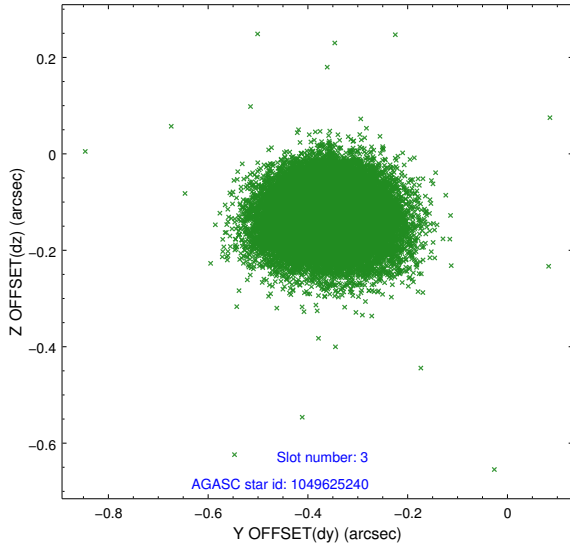
2.3 Aspect

Slot Statistics

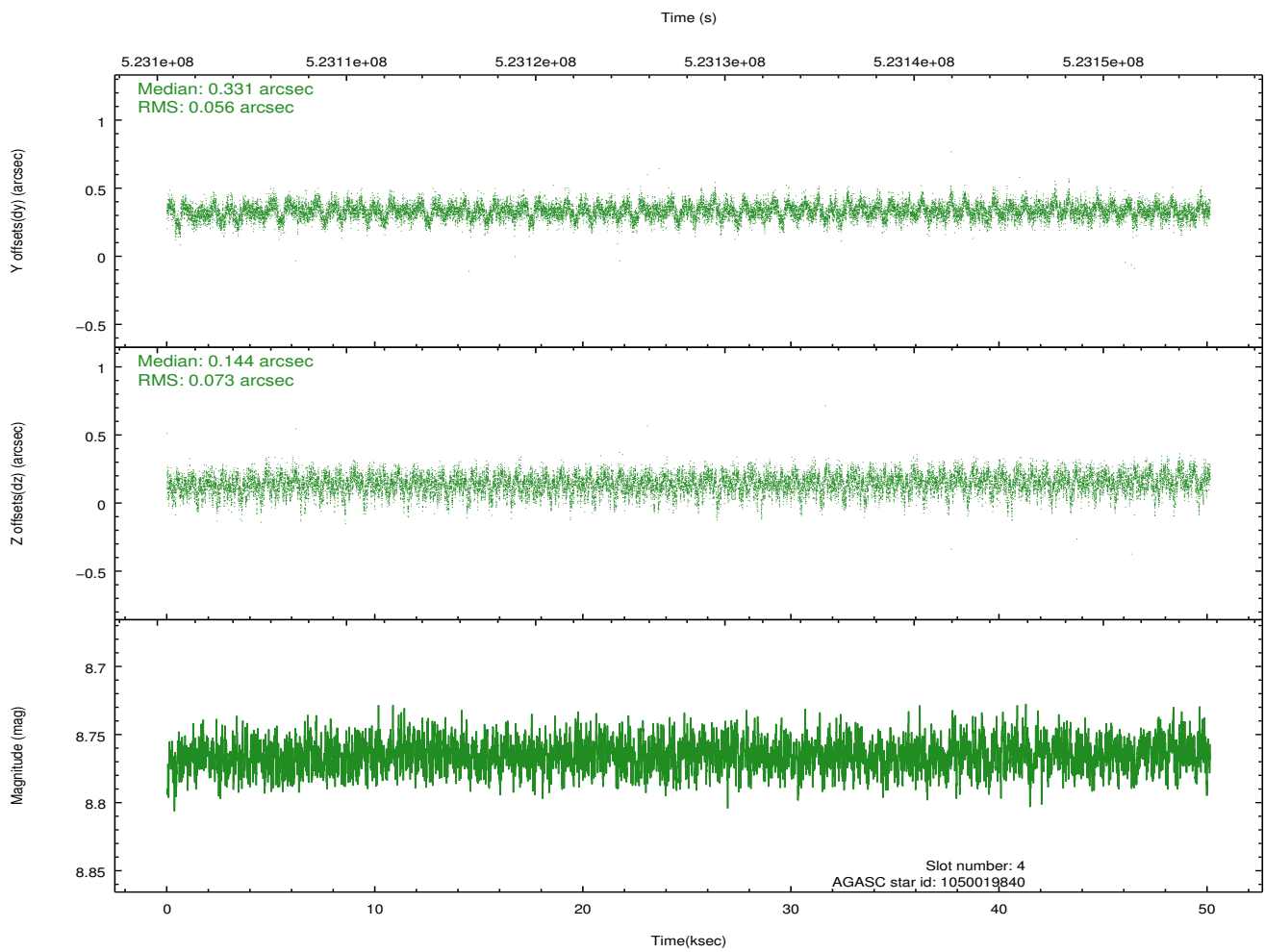
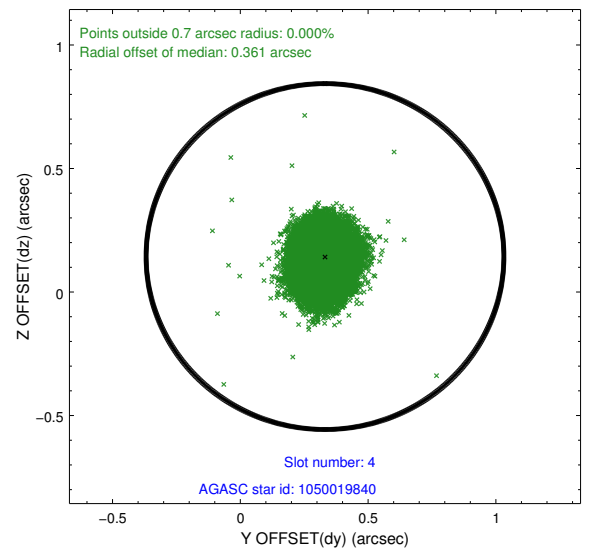
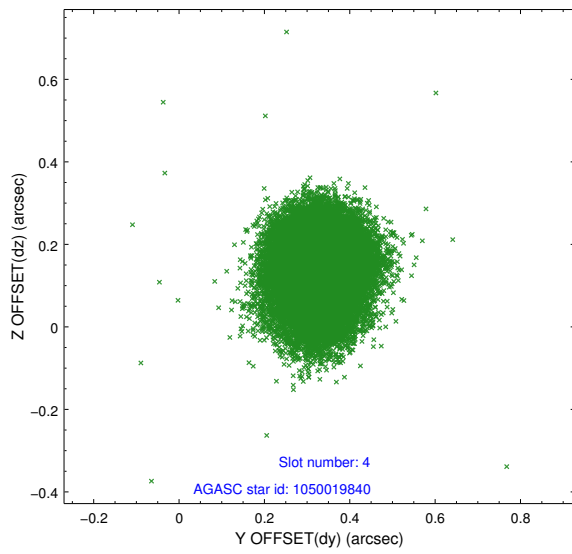
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.10	12229	0.019	-0.050	0.026	0.054	0.000000	0.000000	916.22	-905.34
1	FID	ACIS-I-2	7.03	12229	-0.307	-0.096	0.021	0.030	0.000000	0.000000	-778.36	-911.42
2	FID	ACIS-I-4	7.03	12229	0.186	0.215	0.026	0.035	0.000000	0.000000	2136.13	995.09
3	GUIDE	1049625240	8.72	24449	-0.362	-0.128	0.086	0.143	343.886895	-41.895953	2245.57	1461.79
4	GUIDE	1050019840	8.77	24450	0.331	0.144	0.098	0.161	344.030464	-43.144326	-1508.09	-1037.60
5	GUIDE	1050022056	8.38	24443	-0.040	0.170	0.085	0.136	343.820689	-42.876032	-928.69	-87.55
6	GUIDE	1050028576	7.64	24458	-0.113	-0.345	0.097	0.157	343.984356	-42.552428	300.90	94.24
7	GUIDE	1050021552	8.62	24441	0.171	0.163	0.093	0.152	343.854872	-42.884452	-911.33	-181.87

2.4 Star Slots

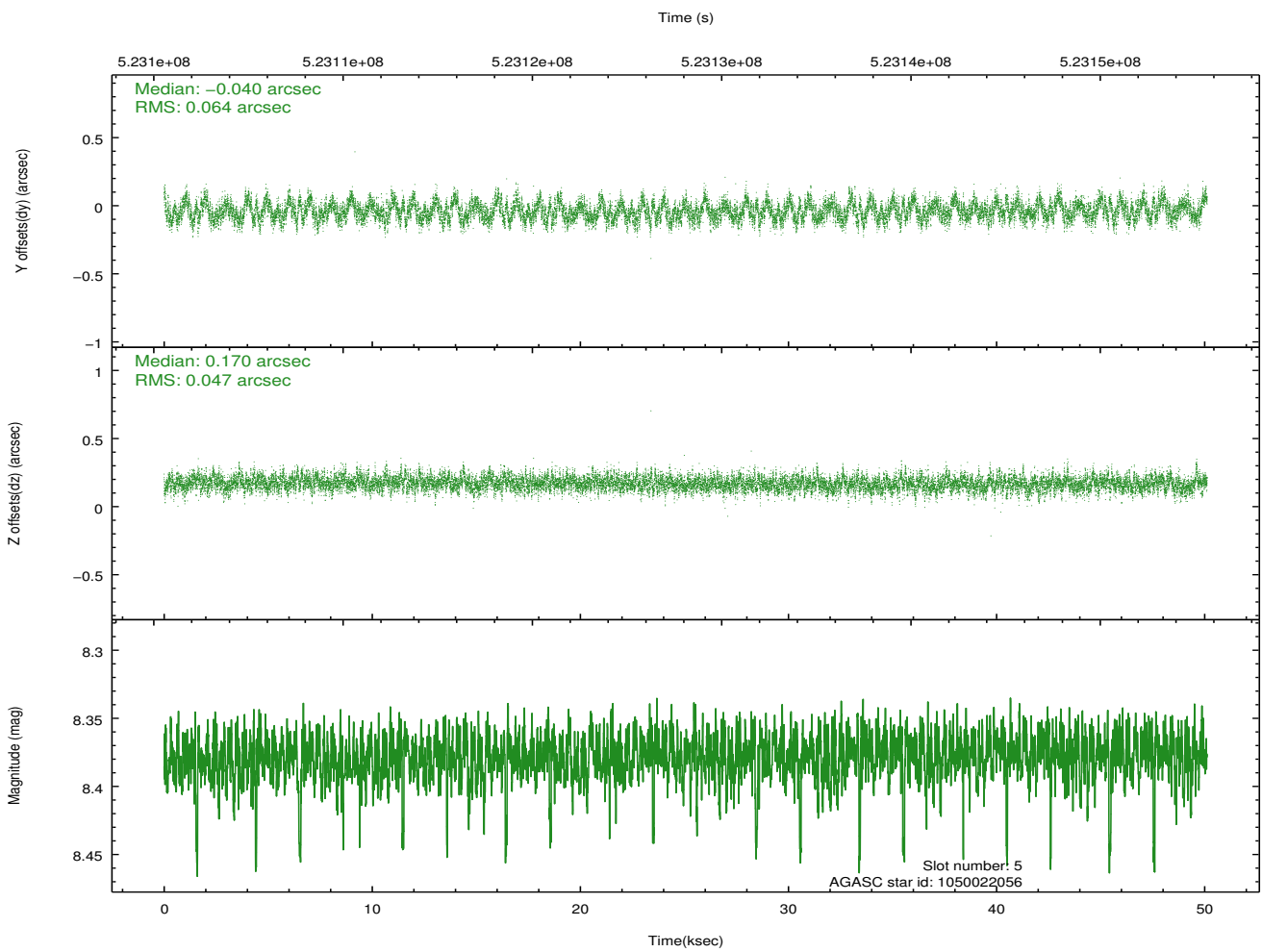
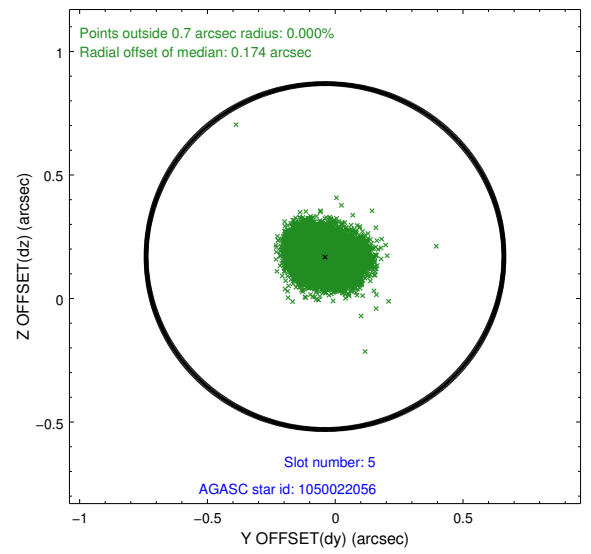
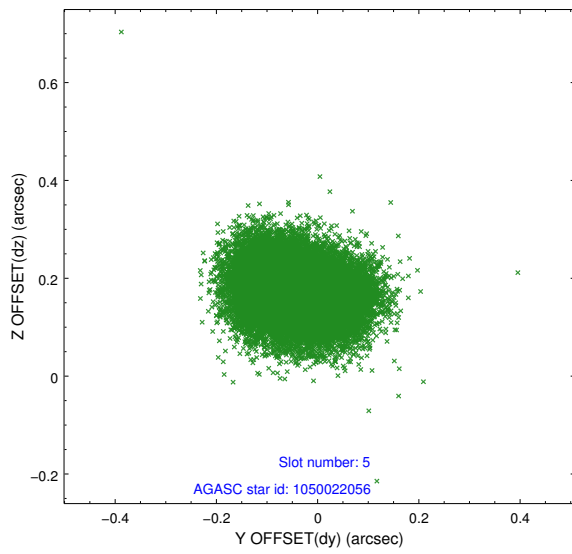
2.4.1 Slot 3



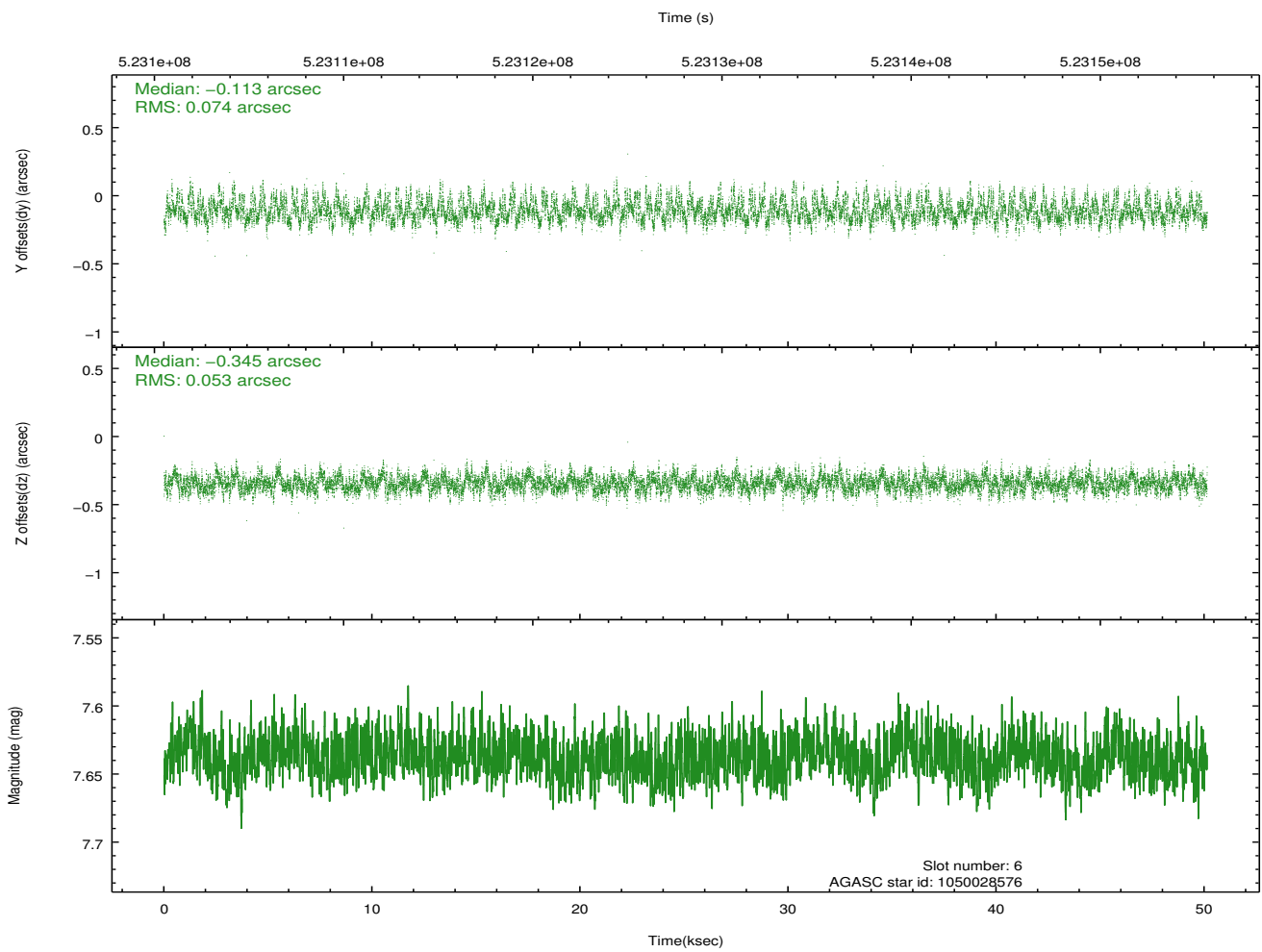
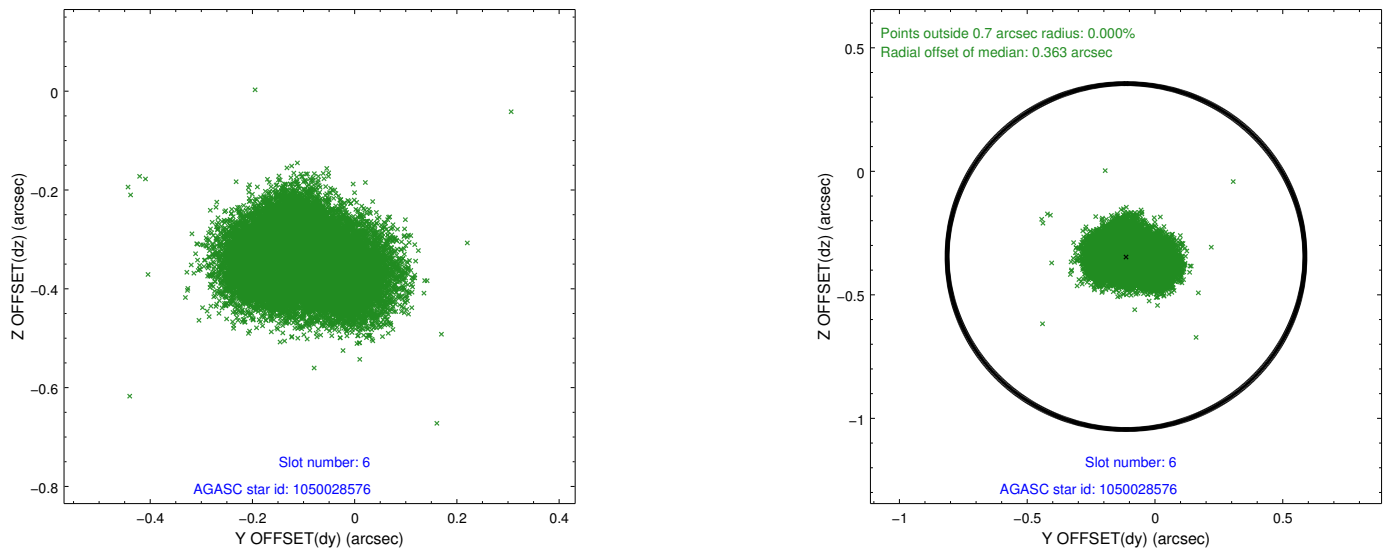
2.4.2 Slot 4



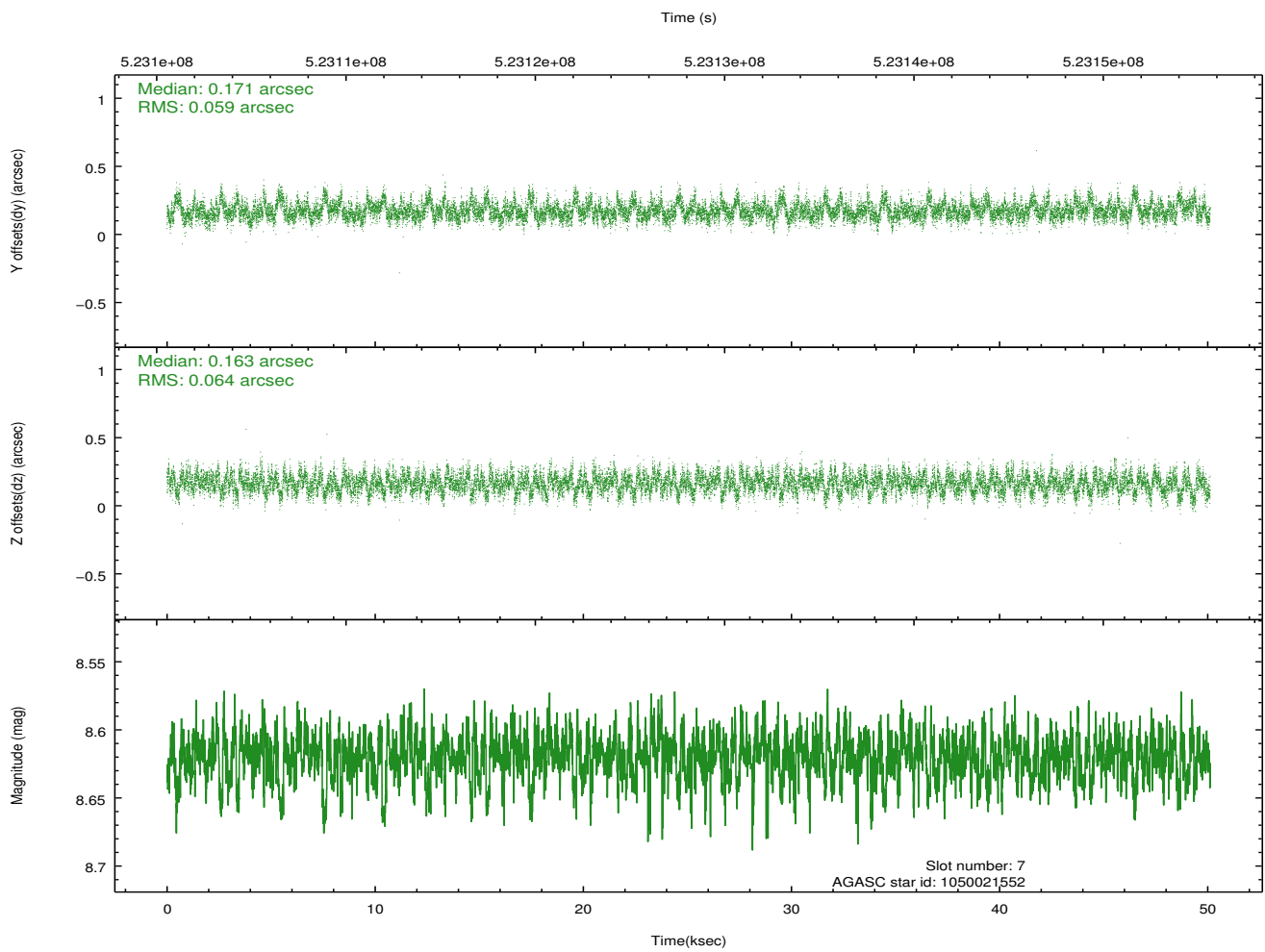
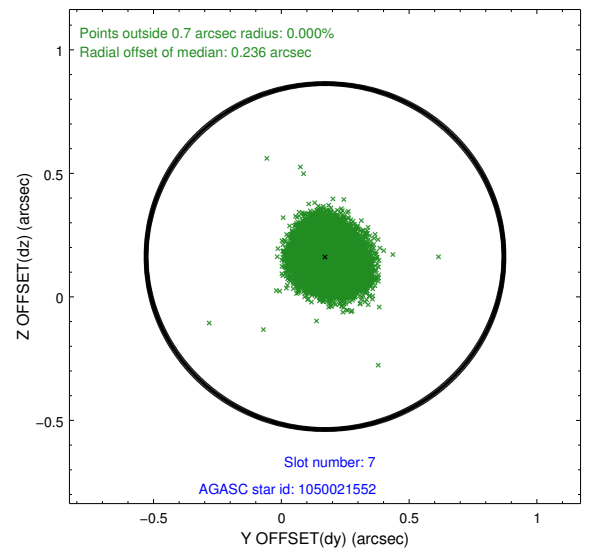
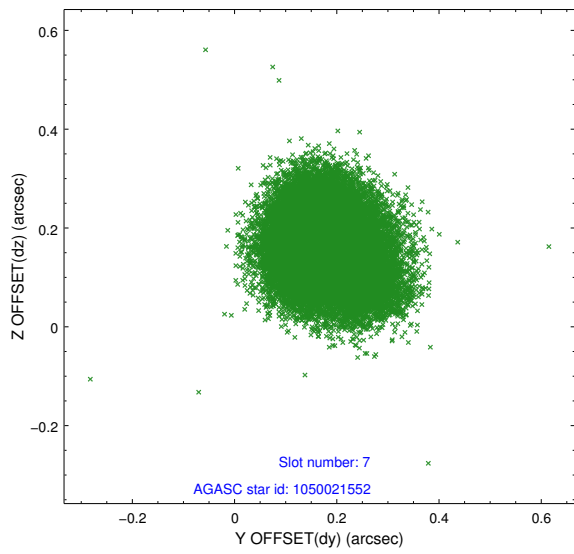
2.4.3 Slot 5



2.4.4 Slot 6

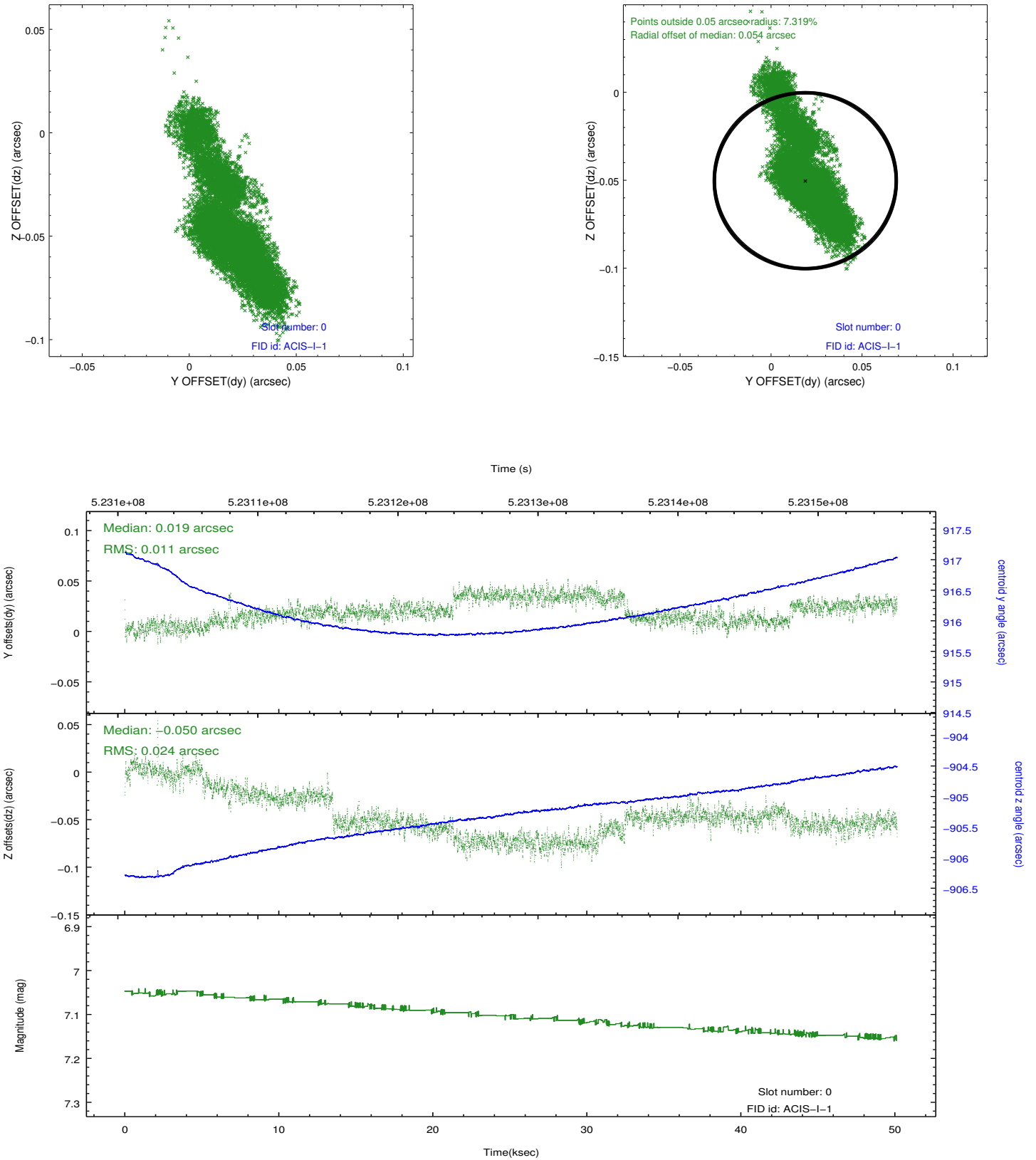


2.4.5 Slot 7

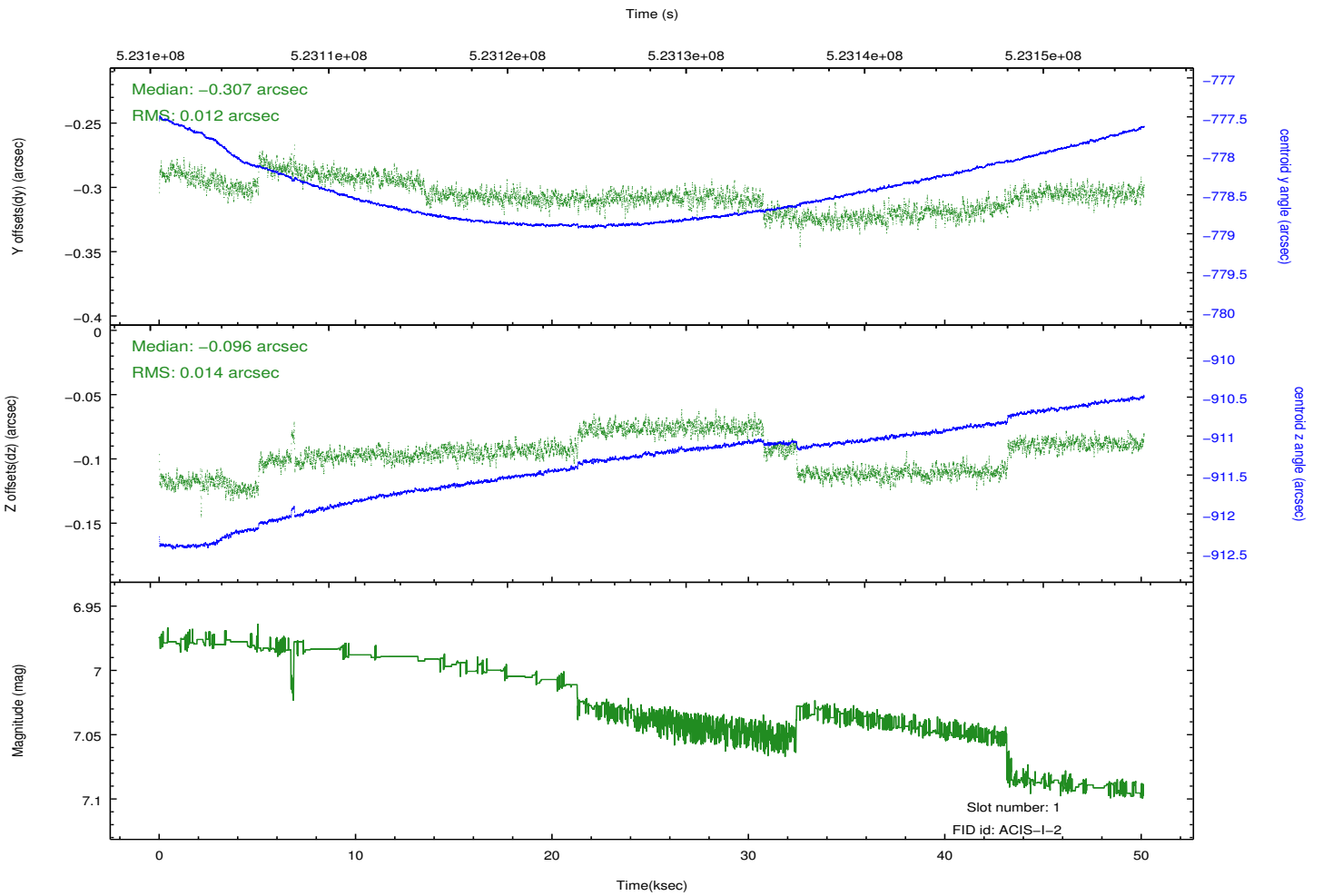
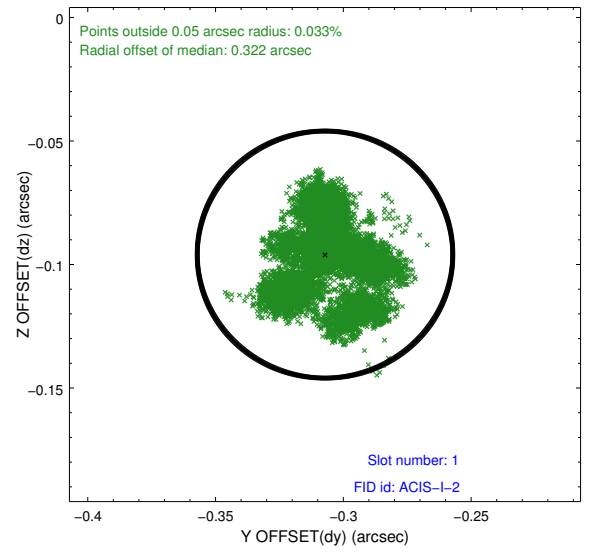
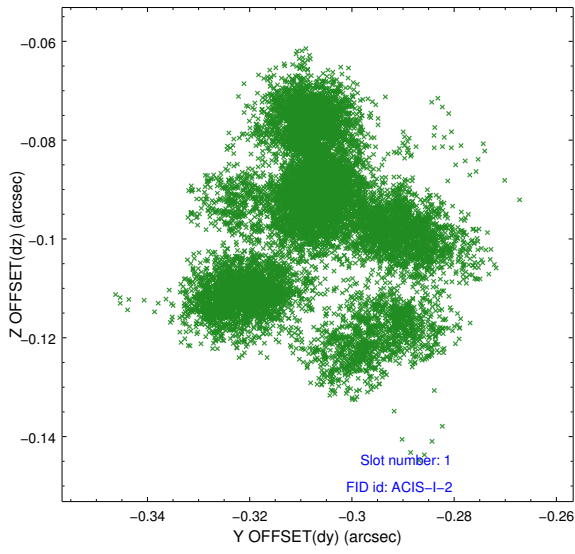


2.5 FID Slots

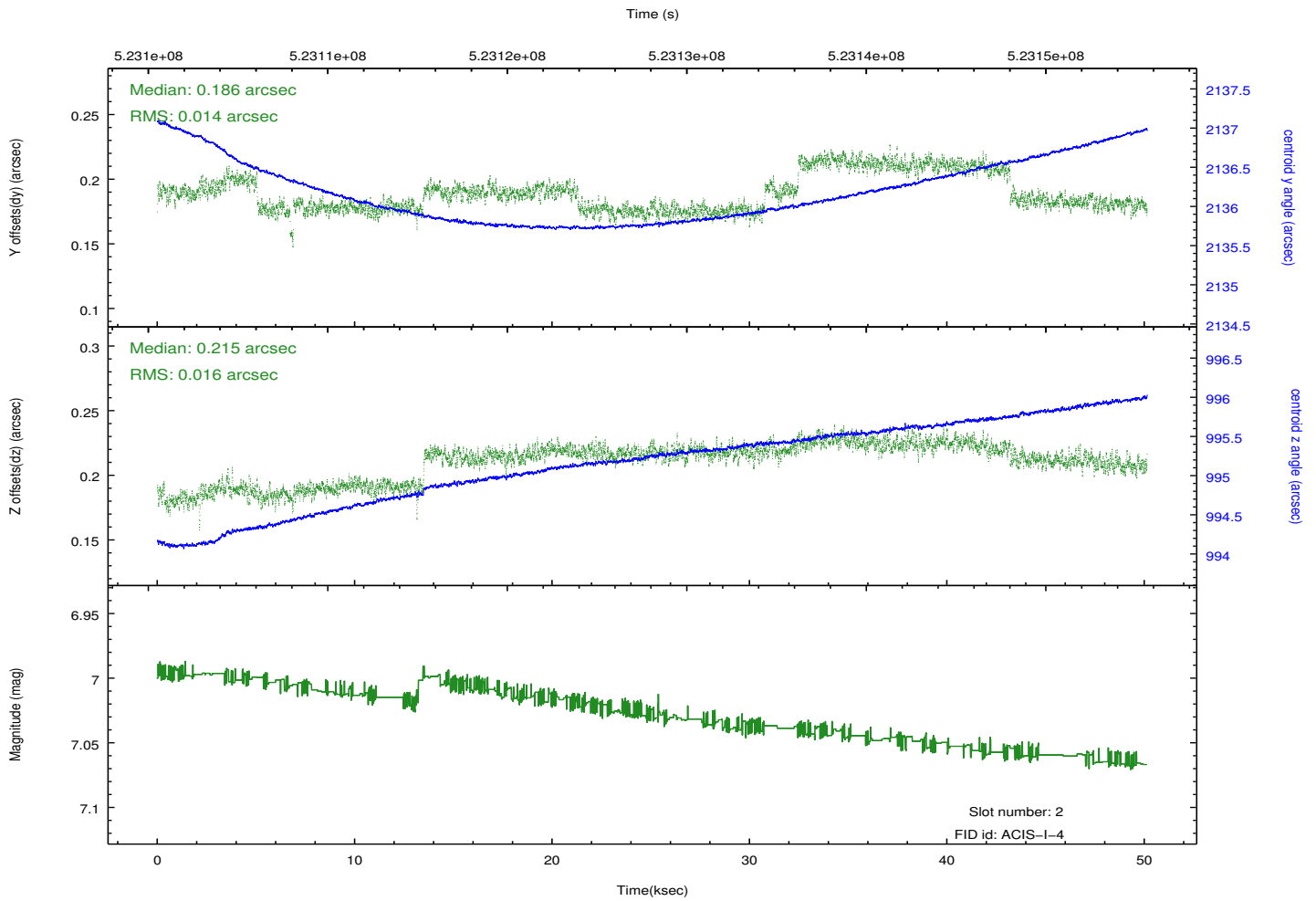
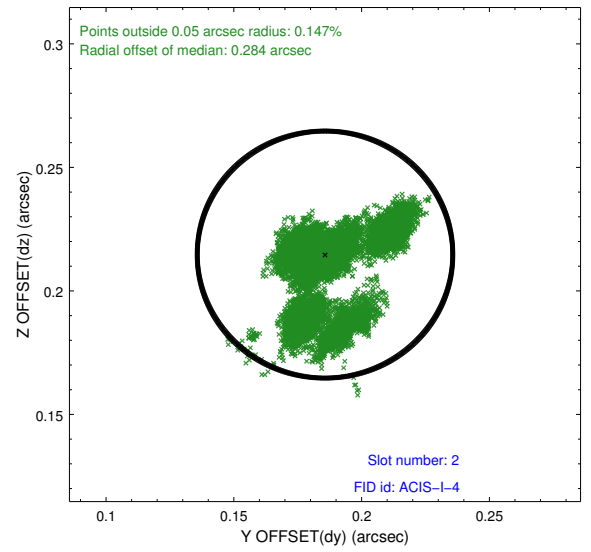
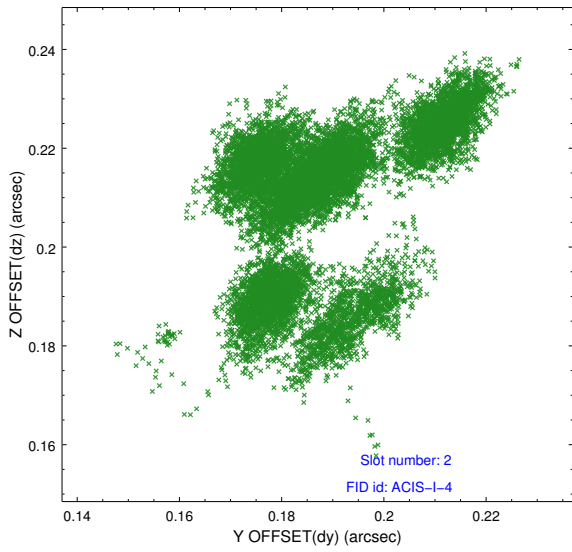
2.5.1 Slot 0



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)	2014.07.31
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	49.785874920785

A.2 Comments