

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 13390 - L2 Version 1
Chandra X-Ray Center

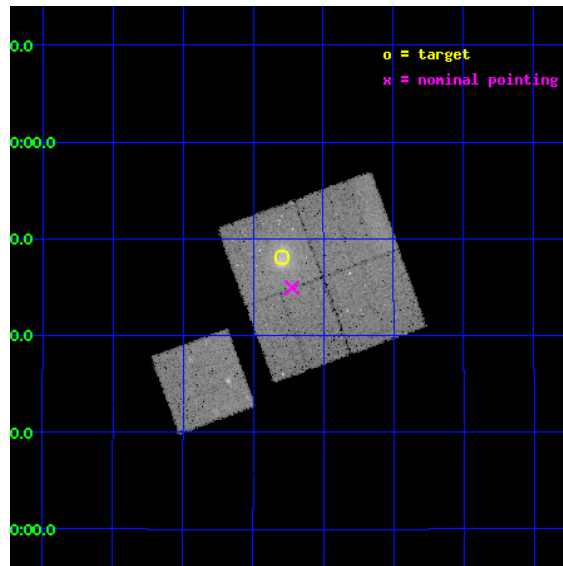
L2 Processing Date : Jun 27 2012

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1 Front

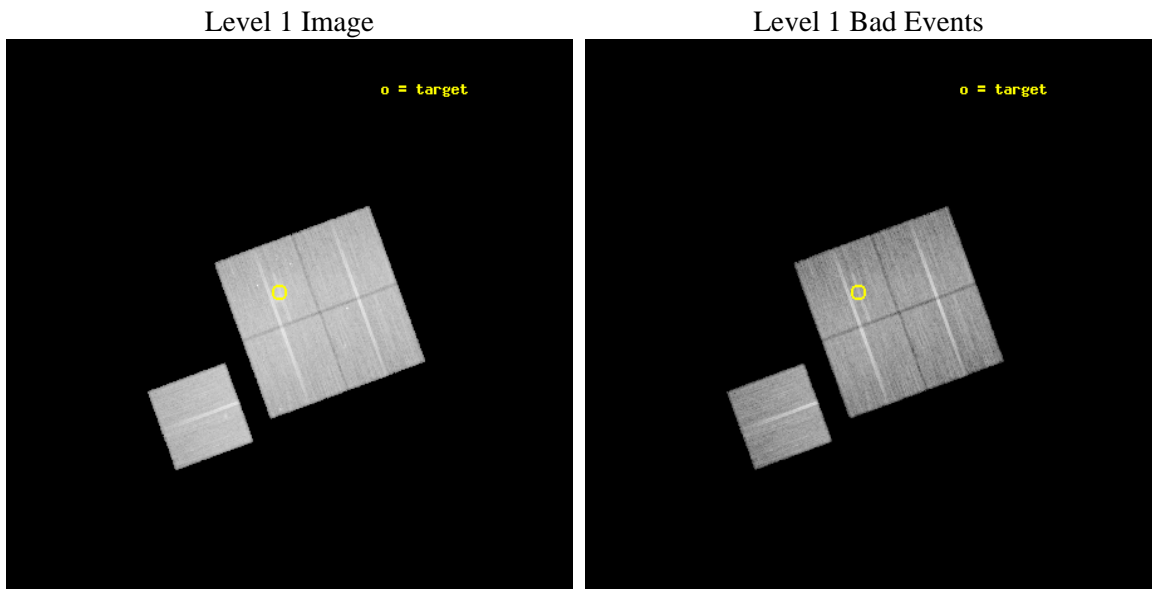
seq_num	801077	Sequence number
obs_id	13390	Observation id
title	Measuring the properties of high redshift clusters	Proposal title
observer	Dr. Stephen Murray	Principal investigator
object	MS1006.0+1202	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	152.197917	Observer's specified target RA [deg]
dec_targ	11.800722	Observer's specified target Dec [deg]
ra_nom	152.1809354702	Nominal RA [deg]
dec_nom	11.748875851603	Nominal Dec [deg]
roll_nom	249.88030839716	Nominal Roll [deg]
revision	1	Processing version of data
ontime	39156.059310973	Sum of GTIs [s]
livetime	38644.456569803	Livetime [s]
ontime0	39159.20030117	Sum of GTIs [s]
ontime1	39156.059310973	Sum of GTIs [s]
ontime2	39159.20030117	Sum of GTIs [s]
ontime3	39156.059310973	Sum of GTIs [s]
ontime6	39152.918380439	Sum of GTIs [s]
l2events	127140	Number of level 2 events



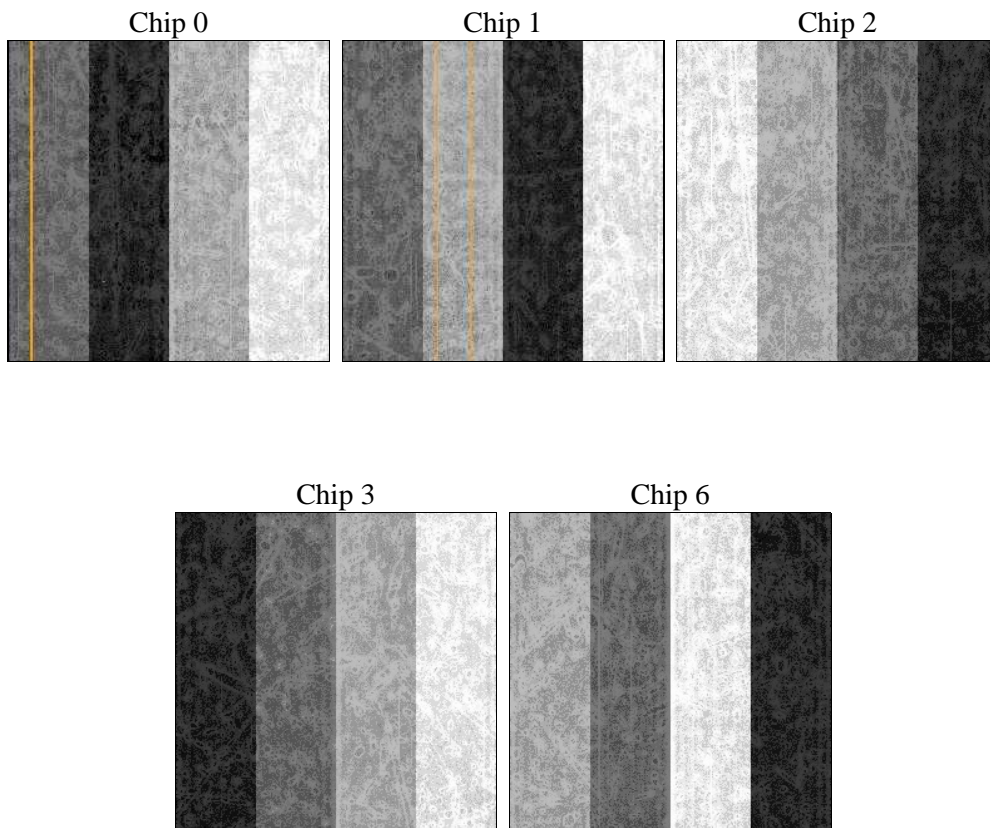
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	39387.696000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	39156.059310973	Sum of GTIs [s]
caldbver	4.5.0	 	ontime0	39159.20030117	Sum of GTIs [s]
date	2012-06-27T21:18:08	Date and time of file creation	ontime1	39156.059310973	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	39159.20030117	Sum of GTIs [s]
			ontime3	39156.059310973	Sum of GTIs [s]
			ontime6	39152.918380439	Sum of GTIs [s]
			l1events	1121087	Number of level 1 events

2.1.4 Events

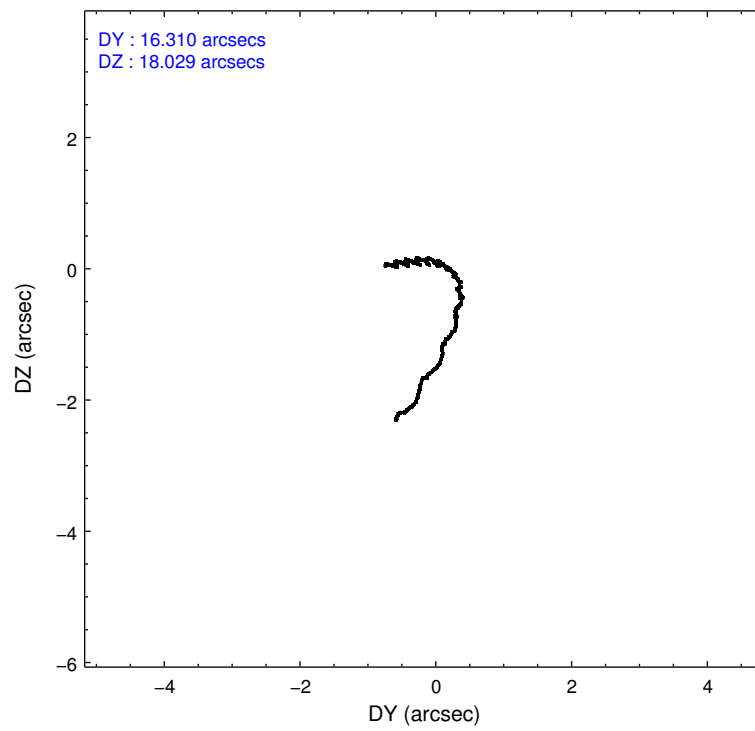
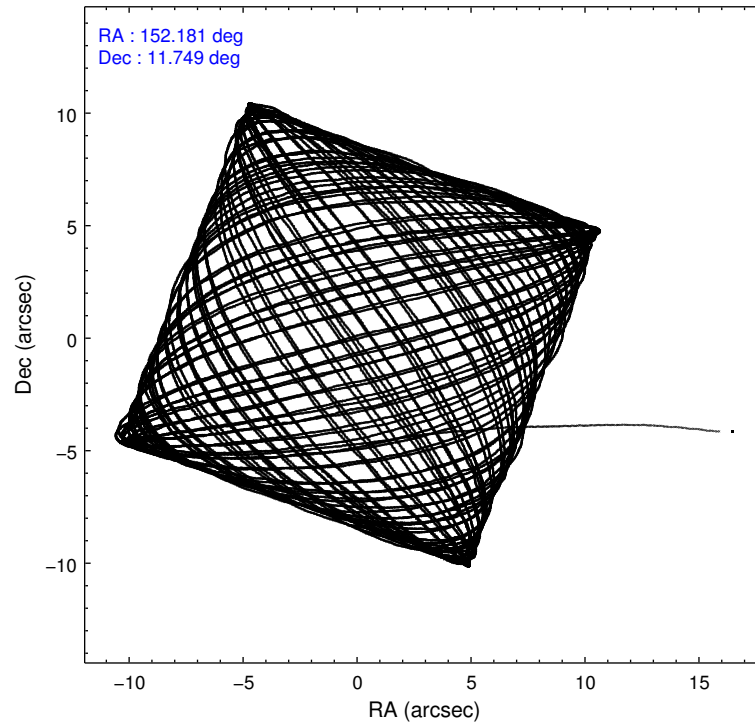
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	208380	216508	229818	236941	229440
rejected events	181399	187219	203457	198316	201876
rejected %	87%	86%	88%	83%	87%

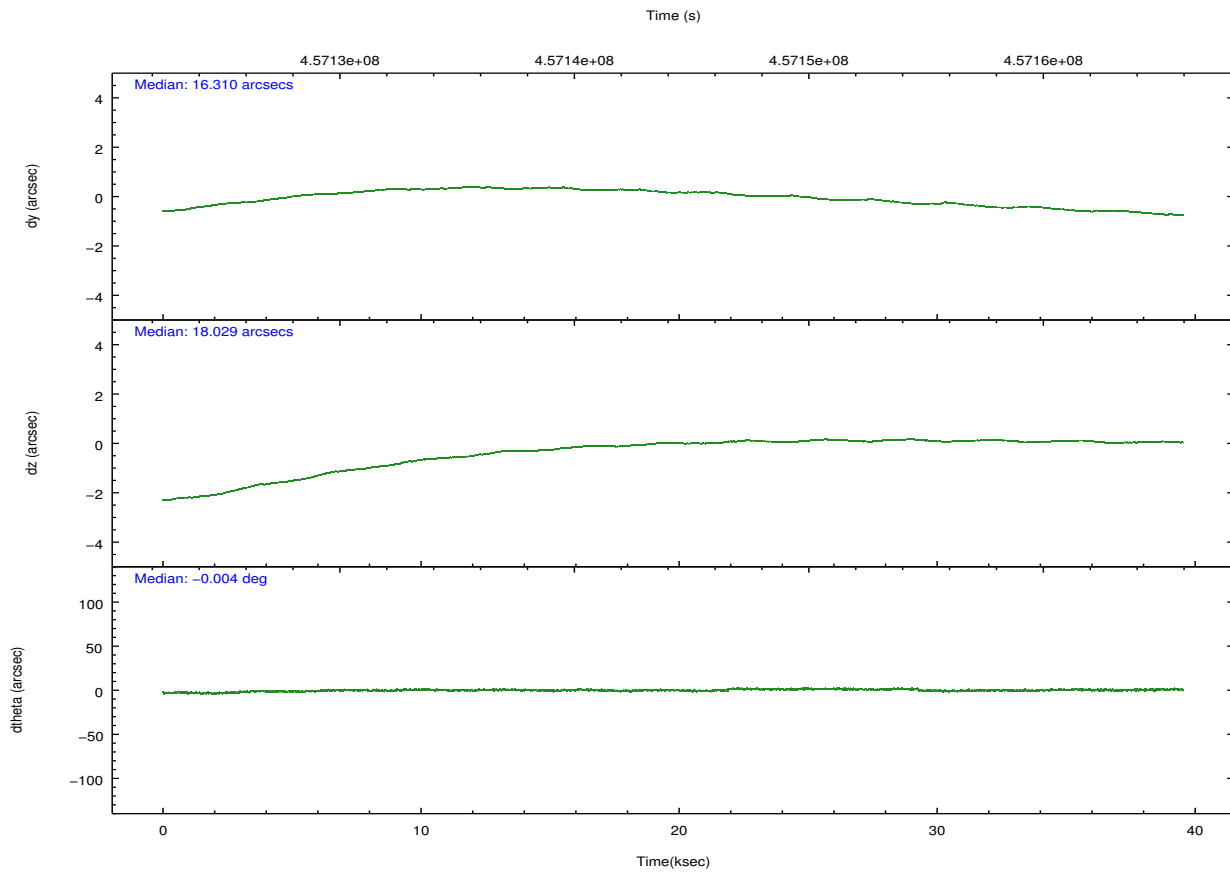
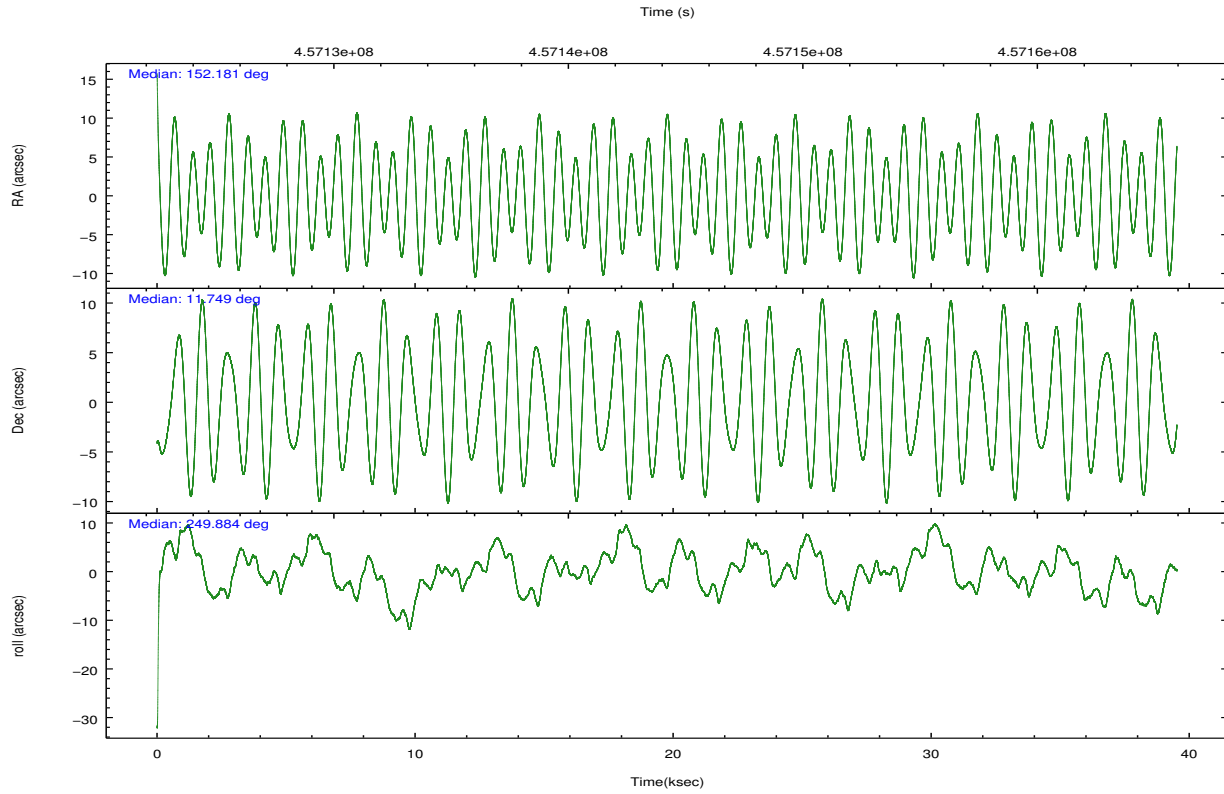
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	9531	10282	9493	19655	9778
	4%	4%	4%	8%	4%
grade 1 events	142	133	133	170	116
	0%	0%	0%	0%	0%
grade 2 events	6675	7112	6505	7014	6150
	3%	3%	2%	2%	2%
grade 3 events	2757	2889	2593	3174	2741
	1%	1%	1%	1%	1%
grade 4 events	2611	2883	2676	3105	2769
	1%	1%	1%	1%	1%
grade 5 events	10048	11006	9448	11590	11303
	4%	5%	4%	4%	4%
grade 6 events	5411	6126	5095	5681	6129
	2%	2%	2%	2%	2%
grade 7 events	171205	176077	193875	186552	190454
	82%	81%	84%	78%	83%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	152.176020	152.1809354701954	CCD I2 on	Y	Y
[deg] Pointing Dec	11.775958	11.74887585160345	CCD I3 on	Y	Y
[deg] Pointing Roll	249.672640	249.8803083971574	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-225.892463	-225.8835723768489	CCD S3 on	N	N
[mm] SIM translation stage offset	-7.7	-7.708880626080827	CCD S4 on	N	N
[s] Observation start time (MET)	457124585.184000	457123267.88188	CCD S5 on	N	N
Observation start date	2012-06-26T19:01:59	2012-06-26T18:41:07	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	457163972.184000	457164209.45906	On-chip summing requested	N	N
Observation end date	2012-06-27T05:58:26	2012-06-27T06:03:29	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



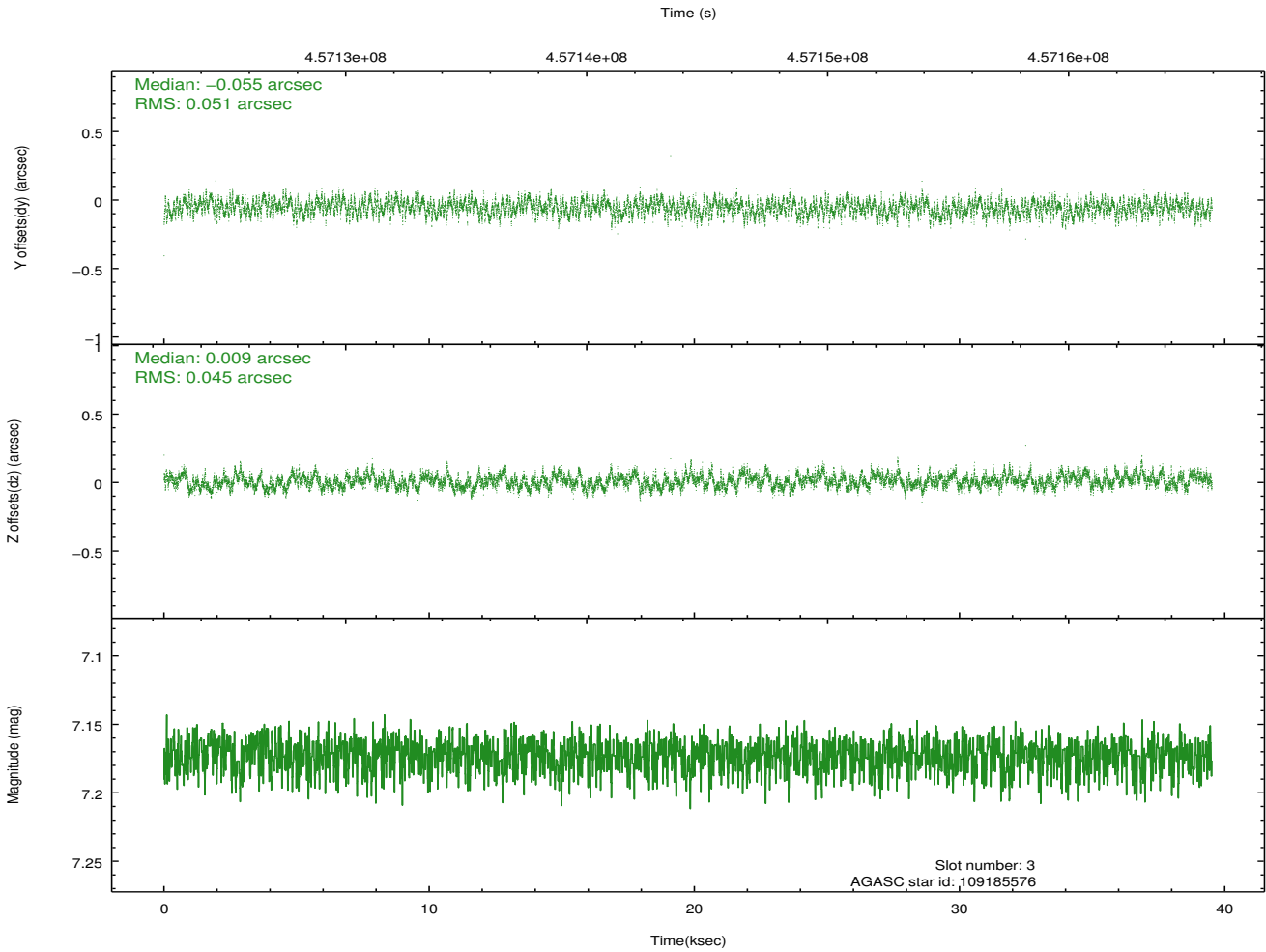
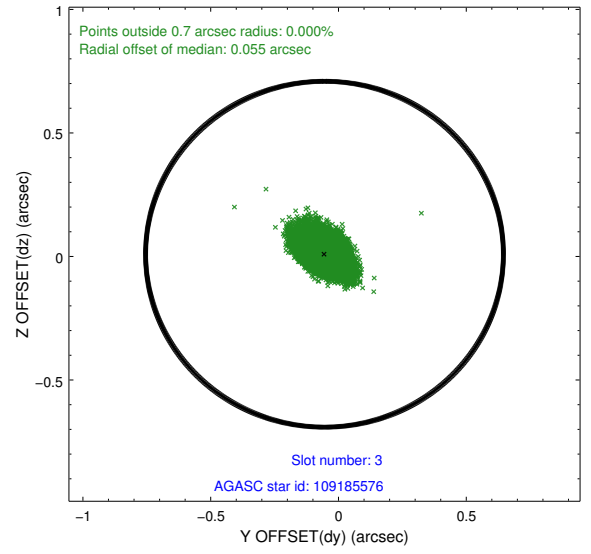
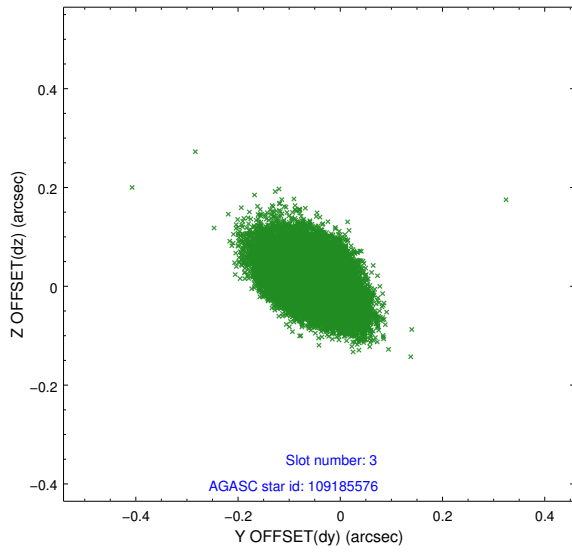


Slot Statistics

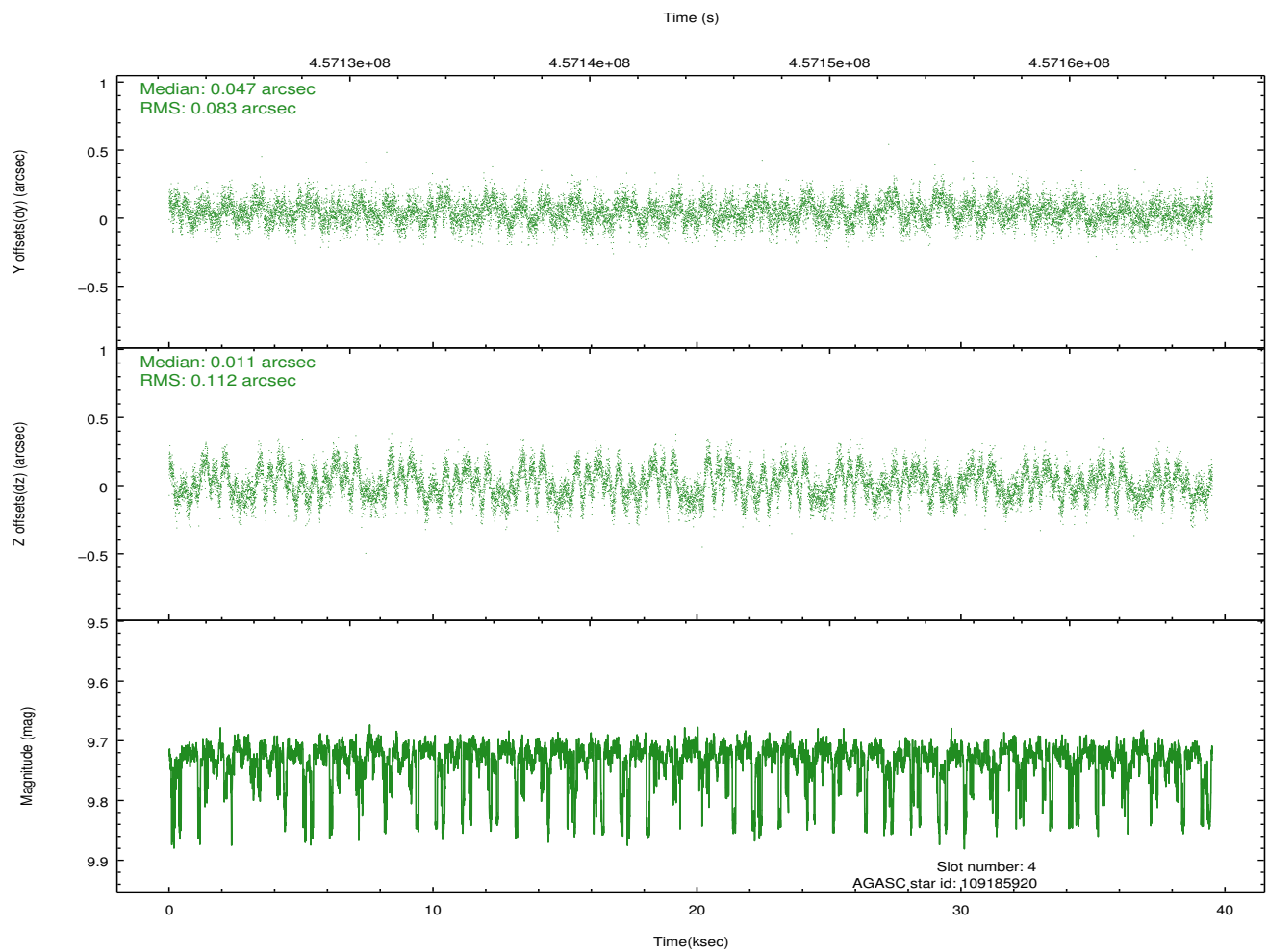
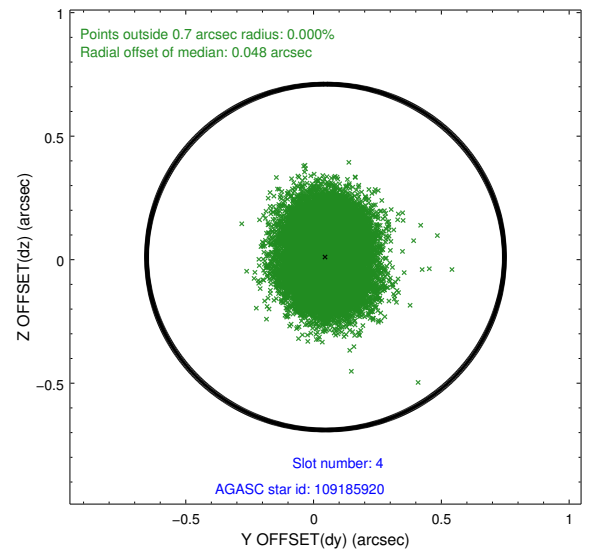
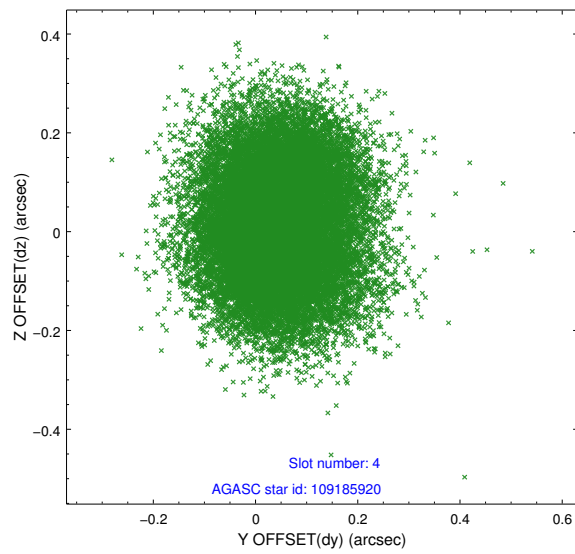
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.04	9638	0.118	-0.149	0.021	0.040	0.000000	0.000000	923.20	-999.65
1	FID	ACIS-I-4	6.95	9638	0.087	0.071	0.018	0.027	0.000000	0.000000	2142.72	901.35
2	FID	ACIS-I-5	7.03	9637	-0.305	0.148	0.012	0.022	0.000000	0.000000	-1825.26	898.19
3	GUIDE	109185576	7.17	19275	-0.055	0.009	0.073	0.118	152.897284	12.036426	-1764.76	2054.80
4	GUIDE	109185920	9.73	19118	0.047	0.011	0.151	0.236	152.543727	12.276764	-2140.56	586.44
5	GUIDE	109189752	8.23	19276	-0.027	0.029	0.076	0.124	152.672766	11.824886	-774.74	1580.40
6	GUIDE	109191728	8.88	19206	0.173	0.041	0.104	0.161	152.614876	11.697237	-272.84	1549.06
7	GUIDE	109192064	8.47	19272	-0.136	-0.097	0.079	0.125	152.614248	11.575676	140.10	1698.32

2.4 Star Slots

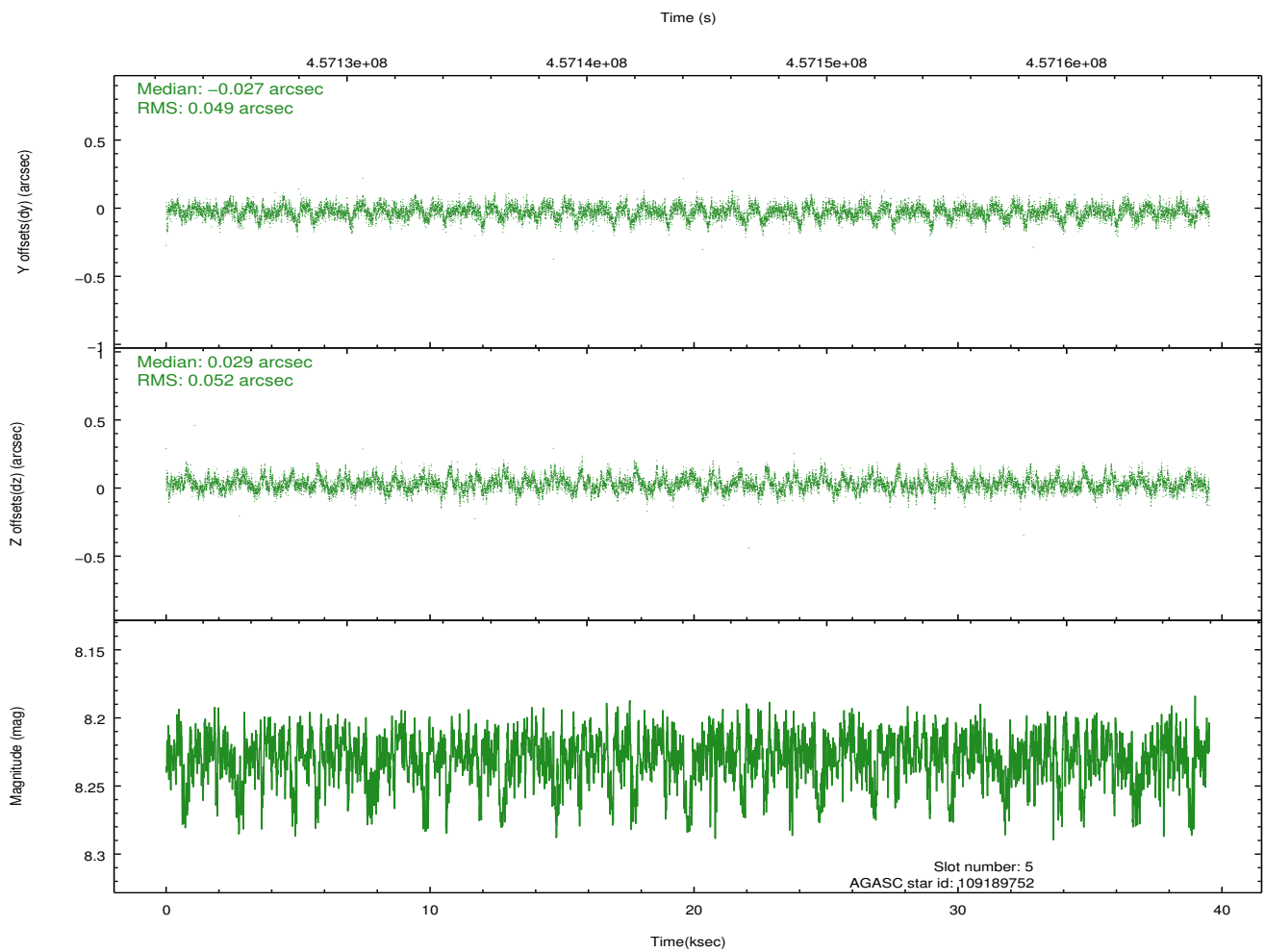
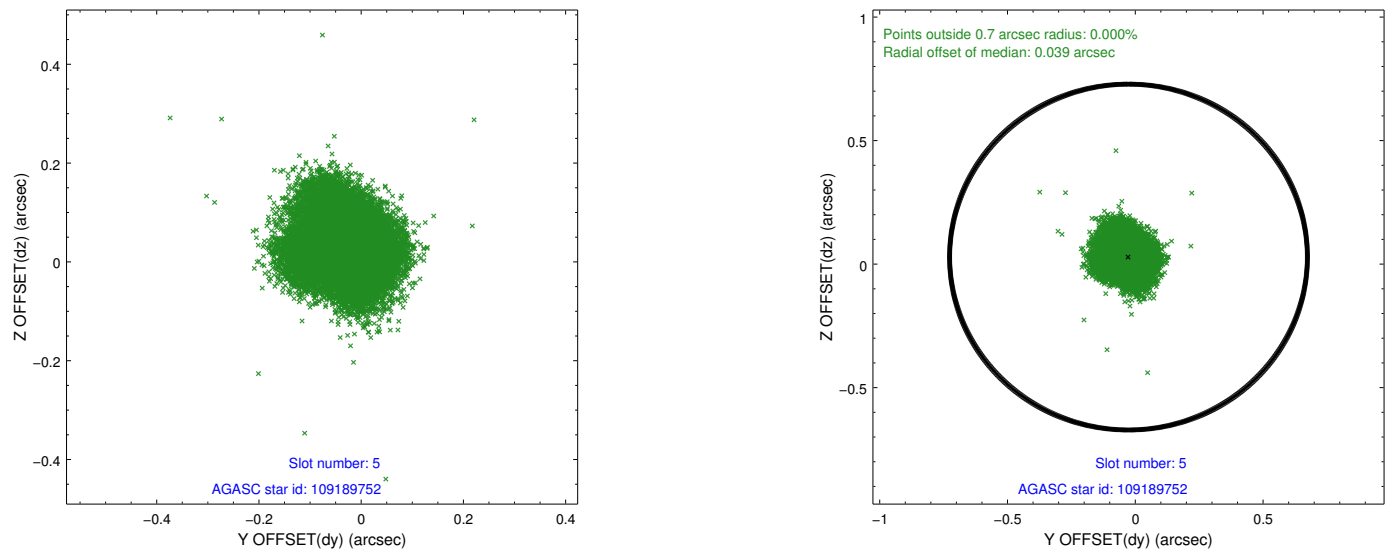
2.4.1 Slot 3



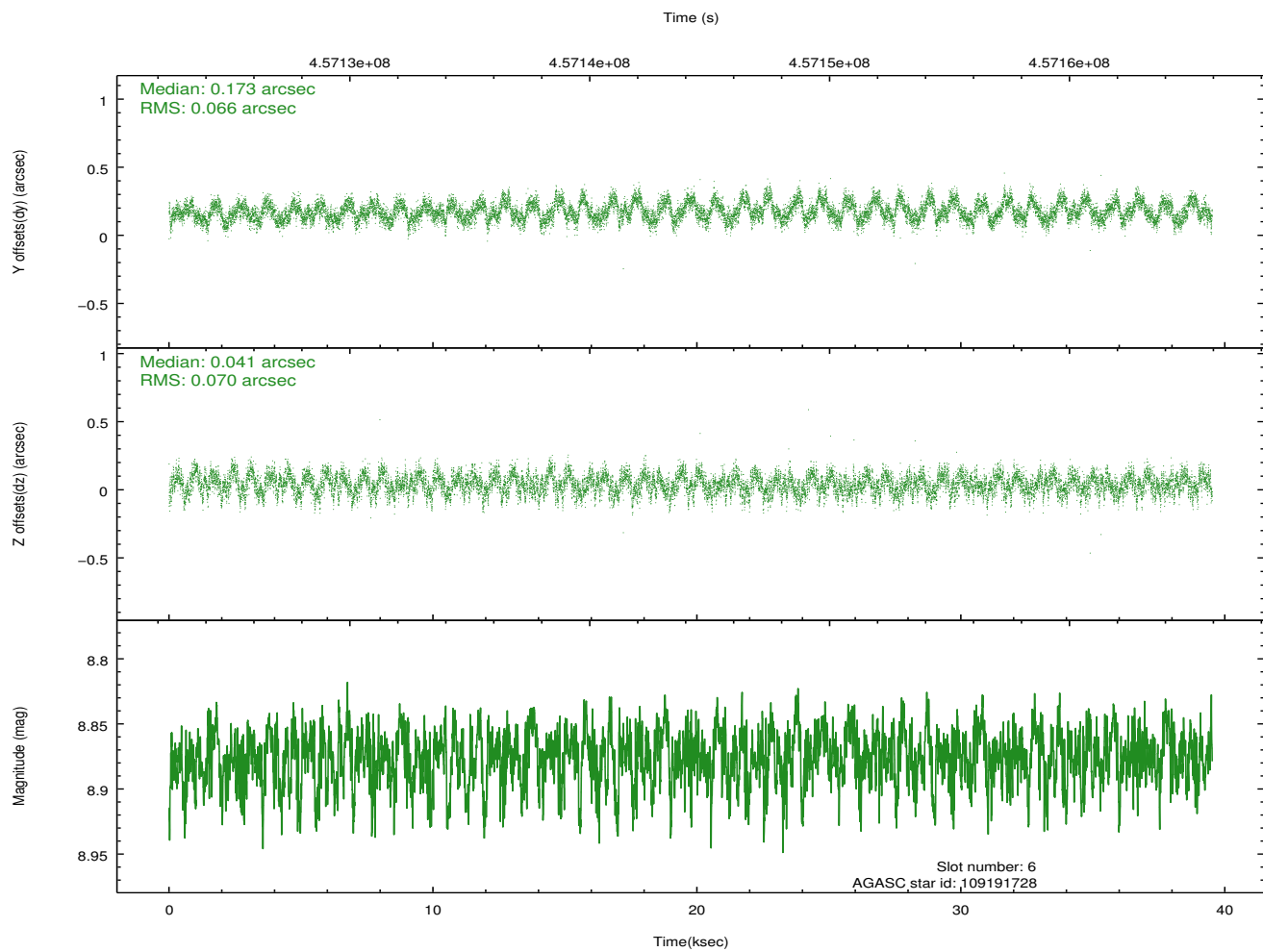
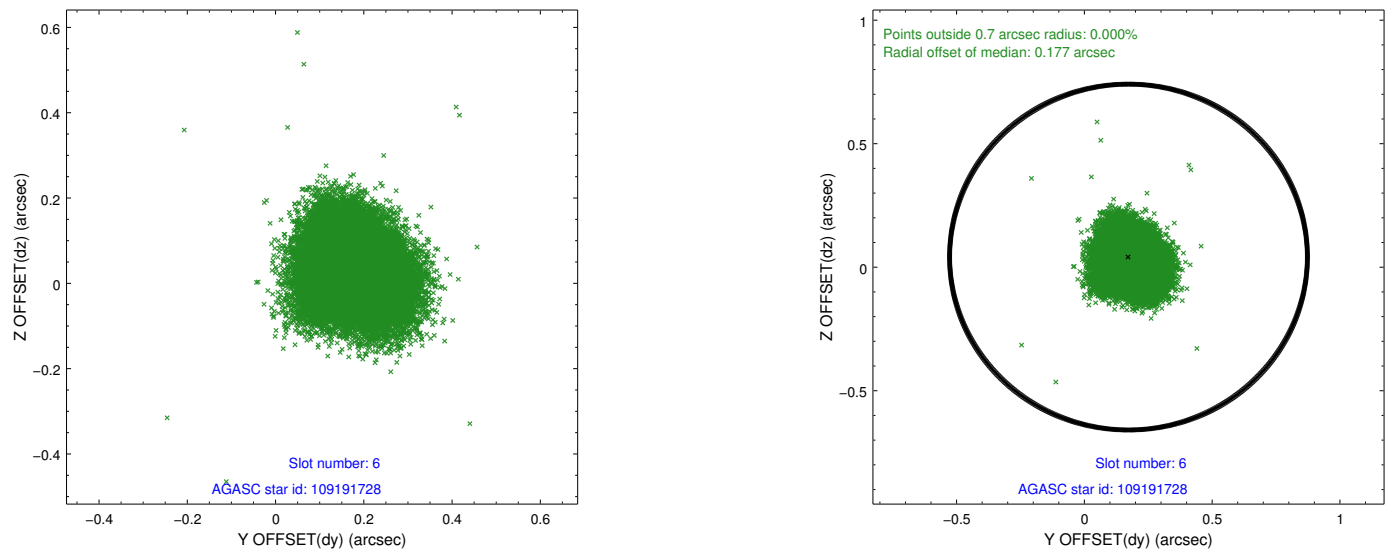
2.4.2 Slot 4



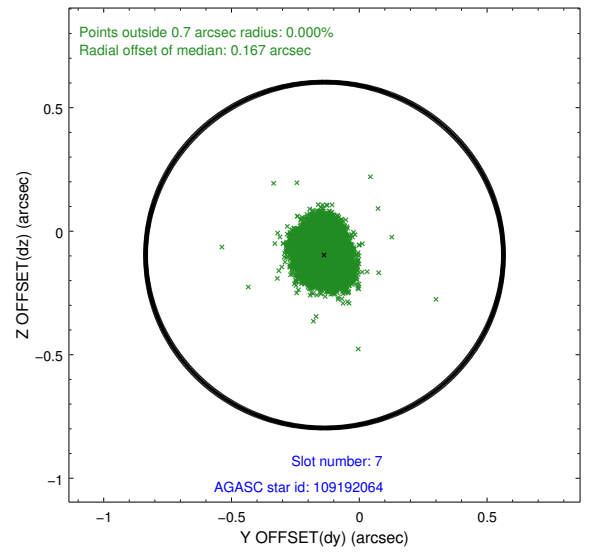
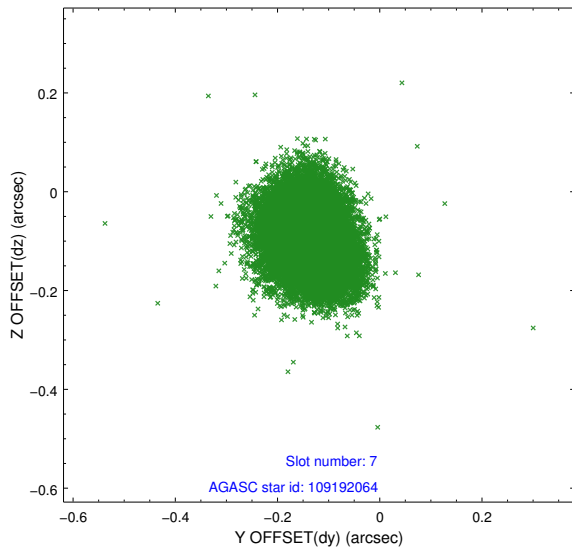
2.4.3 Slot 5



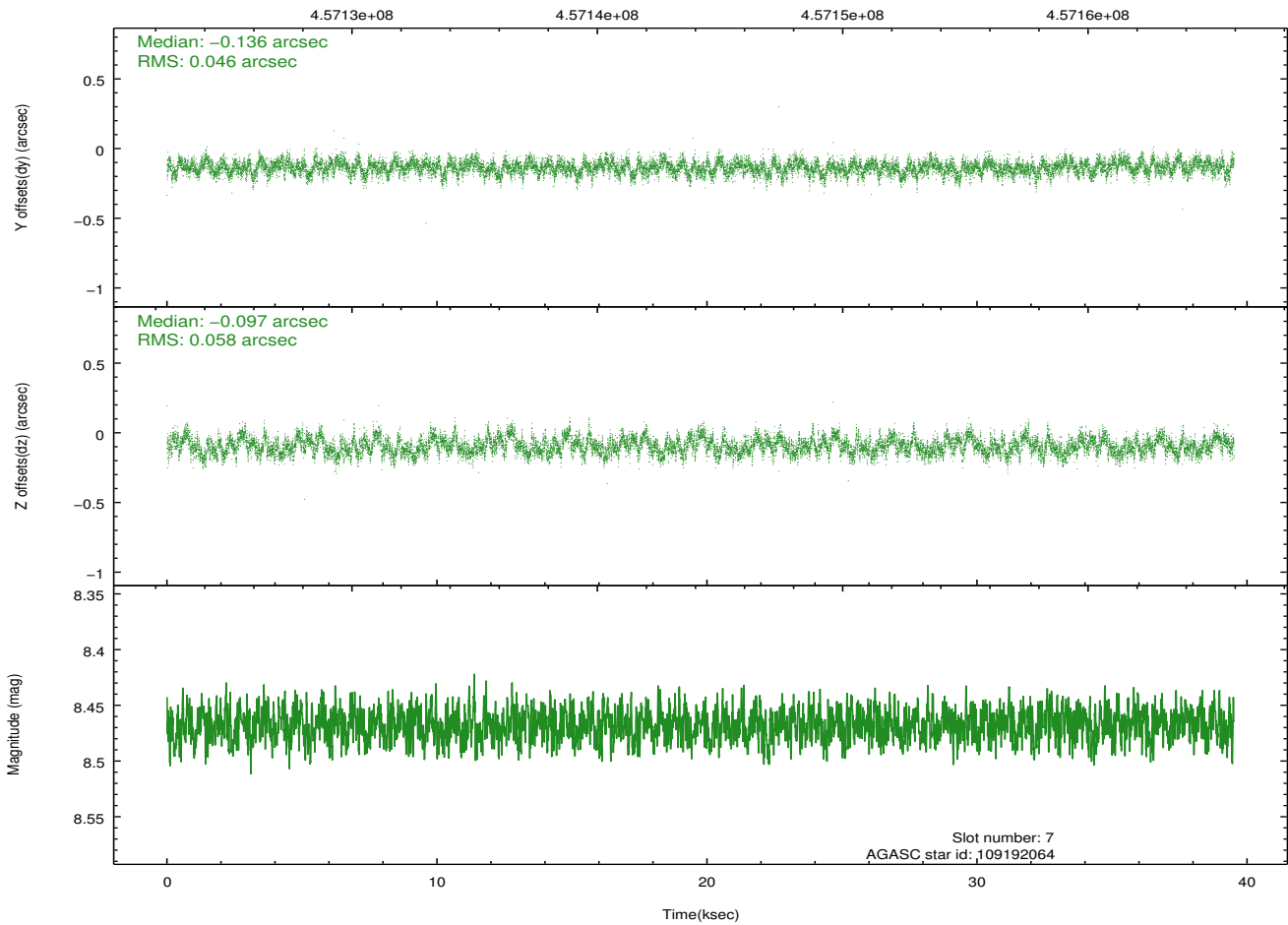
2.4.4 Slot 6



2.4.5 Slot 7

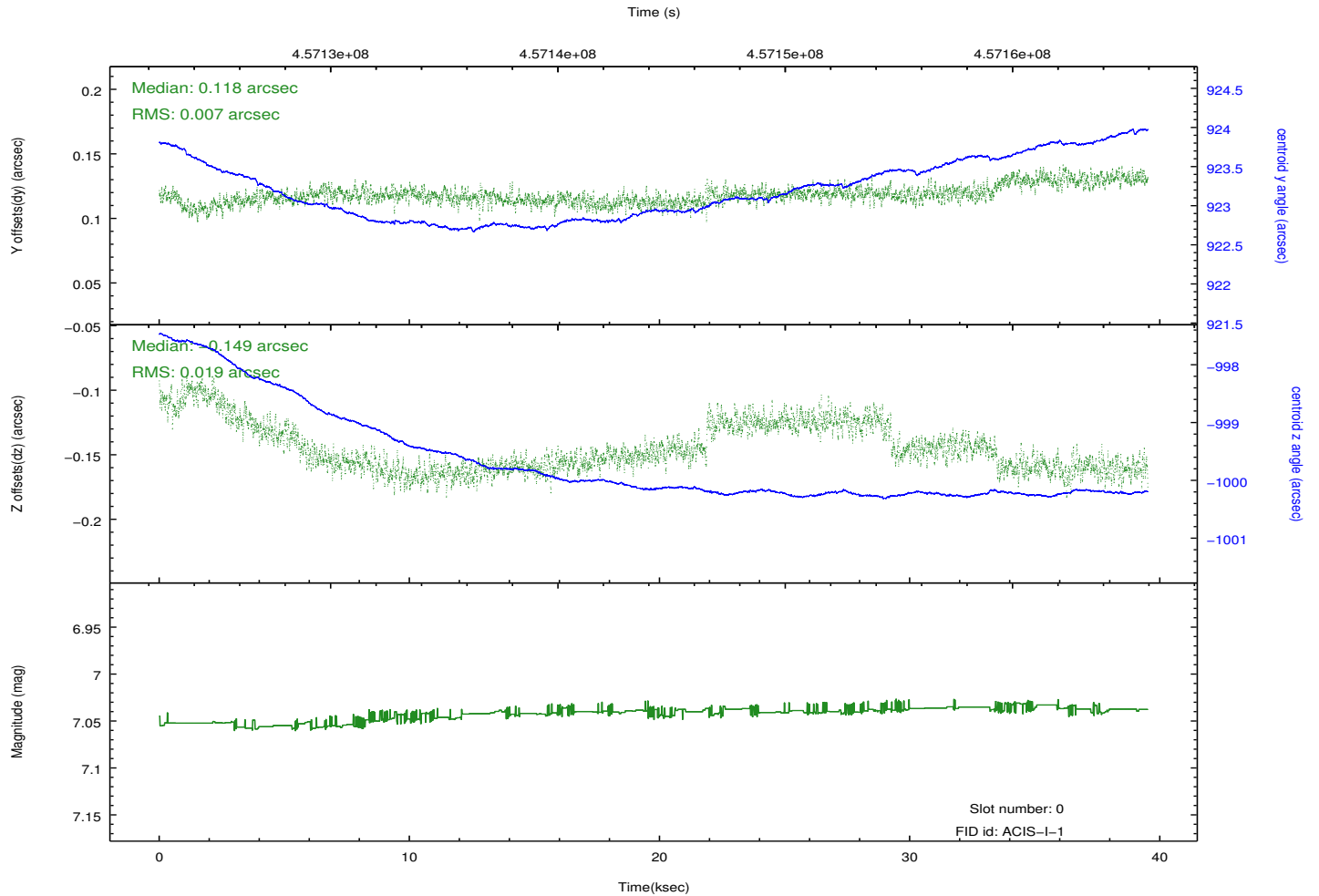
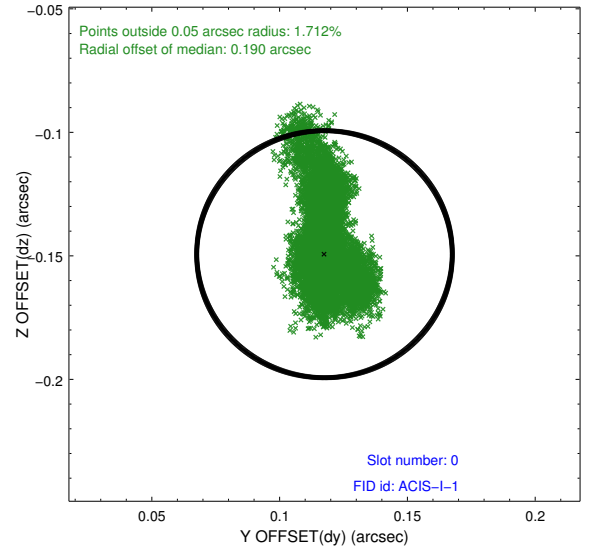
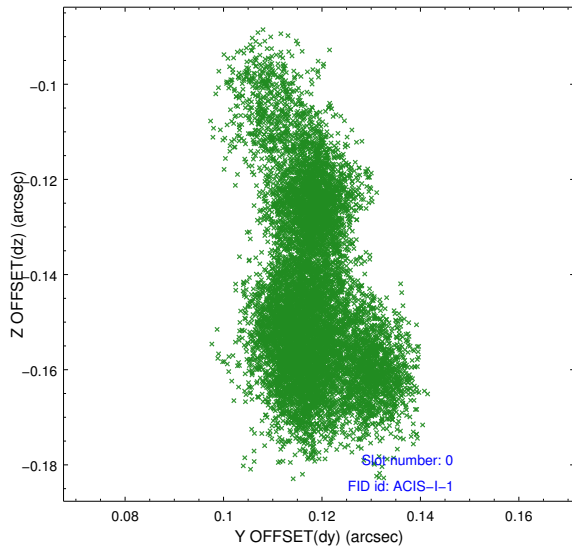


Time (s)

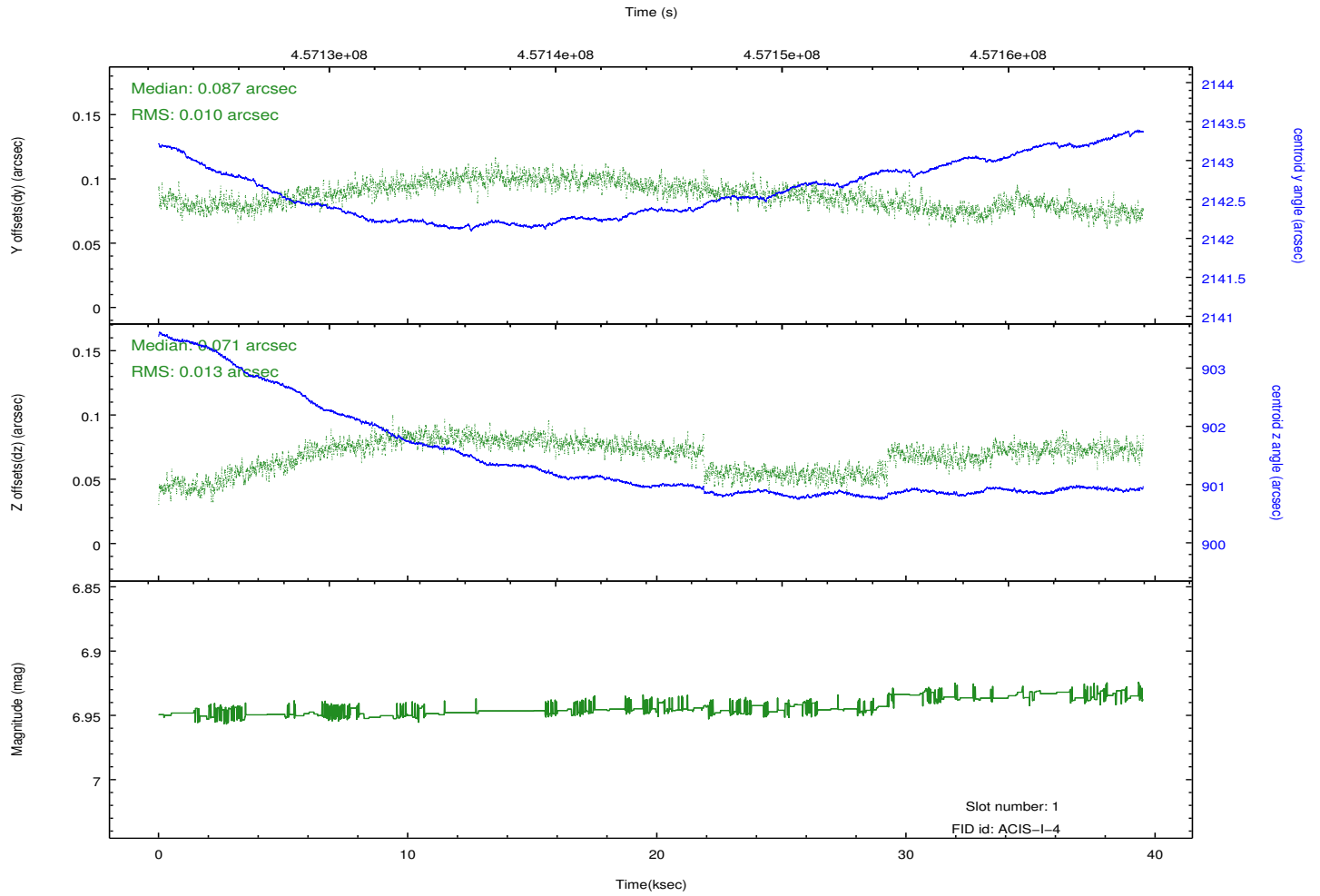
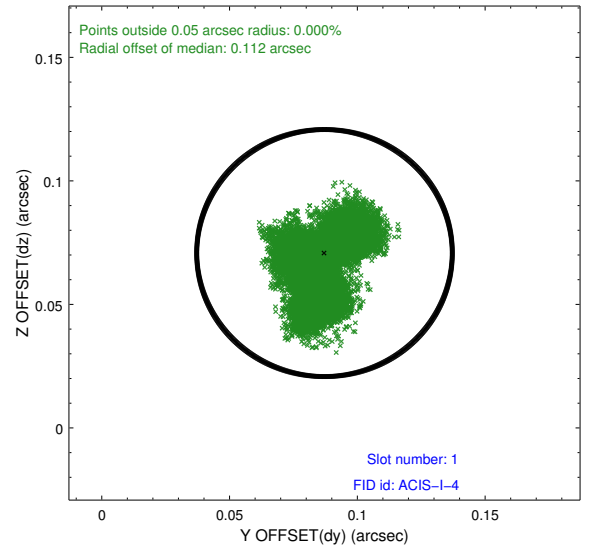
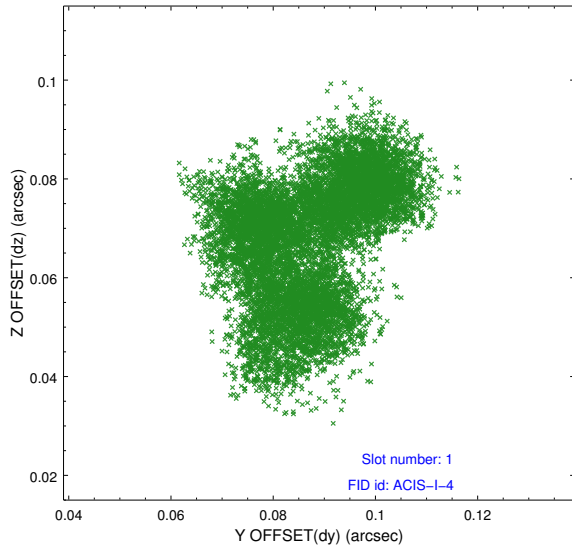


2.5 FID Slots

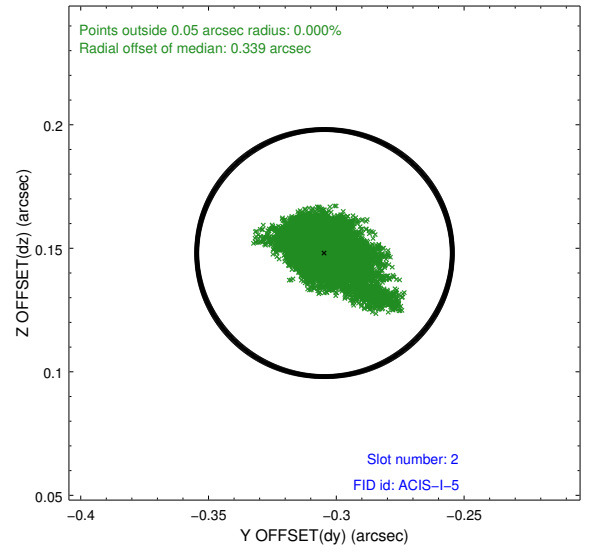
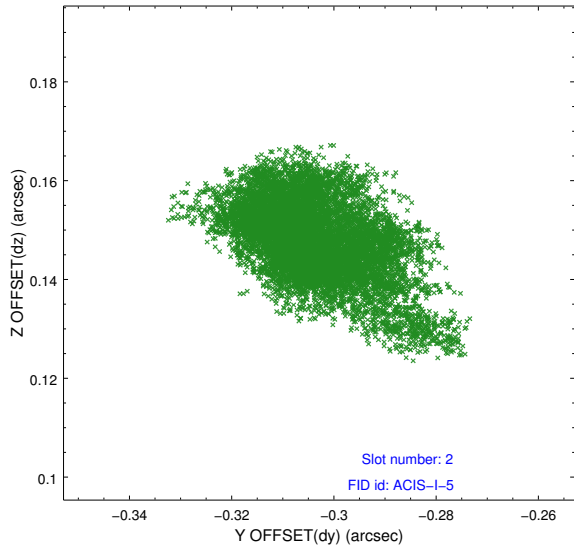
2.5.1 Slot 0



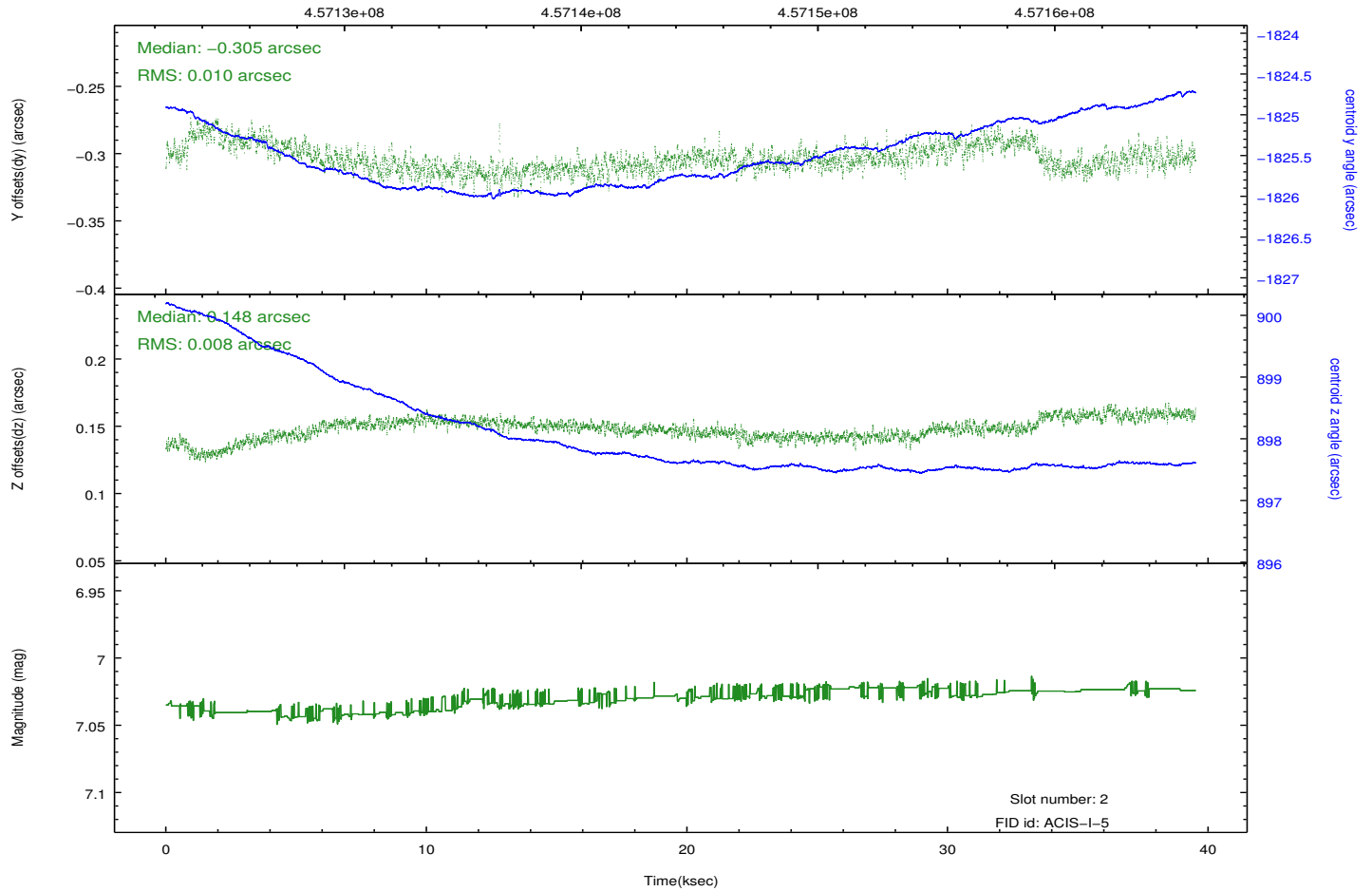
2.5.2 Slot 1



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.06.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	39.156059310973

A.2 Comments