

V&V Reference Report

L2 ASCDS Version : 8.4.3.1

Observation 8502 - L2 Version 3
Chandra X-Ray Center

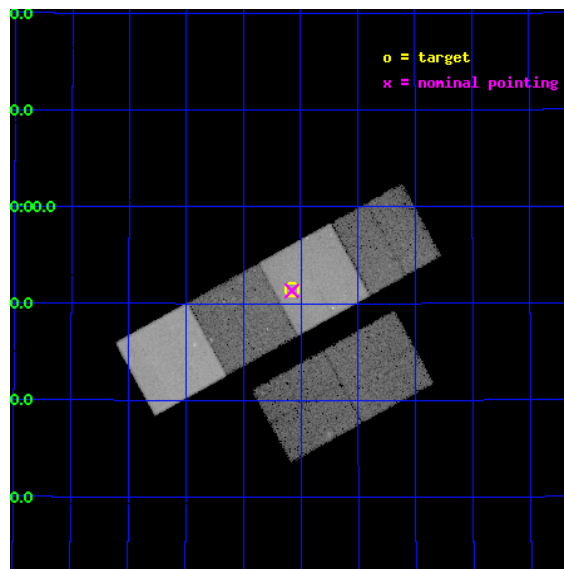
L2 Processing Date : Apr 16 2012

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1 Front

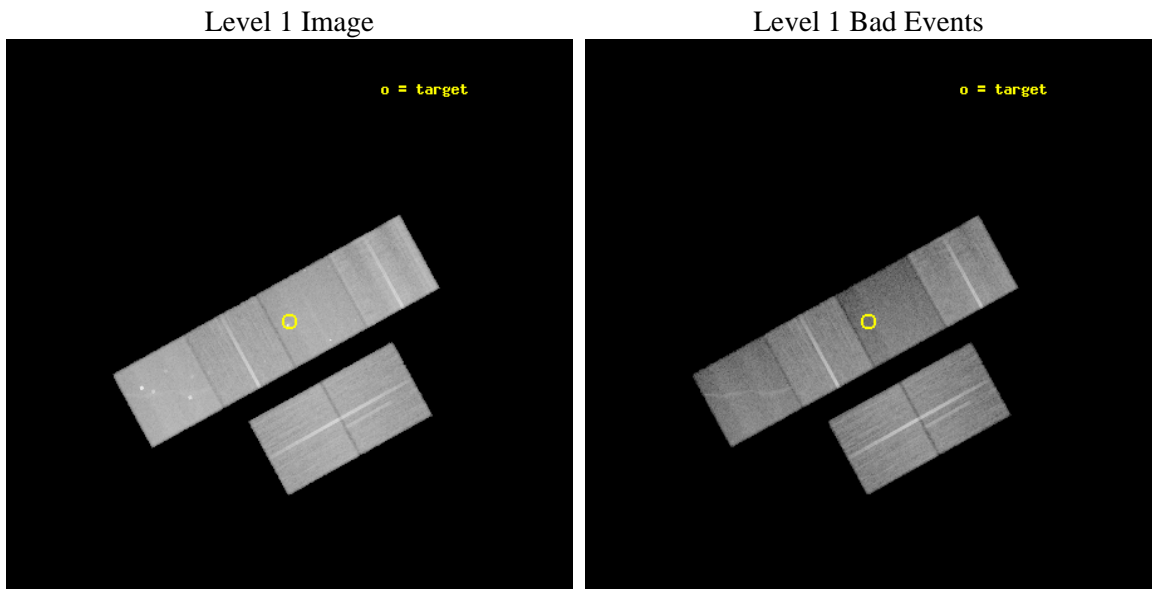
seq_num	500733	Sequence number
obs_id	8502	Observation id
title	Complex PWN Torus and Jets from a Gamma-ray Pulsar	Proposal title
observer	Prof. Roger Romani	Principal investigator
object	PSR J2021+3651	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	305.26875	Observer's specified target RA [deg]
dec_targ	36.8575	Observer's specified target Dec [deg]
ra_nom	305.26924881522	Nominal RA [deg]
dec_nom	36.85542690734	Nominal Dec [deg]
roll_nom	331.15633630032	Nominal Roll [deg]
revision	3	Processing version of data
ontime	34217.599872589	Sum of GTIs [s]
liveltime	33784.316019637	Livetime [s]
ontime2	34217.599872589	Sum of GTIs [s]
ontime3	34204.635961354	Sum of GTIs [s]
ontime5	34214.358902276	Sum of GTIs [s]
ontime6	34211.117912114	Sum of GTIs [s]
ontime7	34217.599872589	Sum of GTIs [s]
ontime8	34217.599872589	Sum of GTIs [s]
l2events	362743	Number of level 2 events



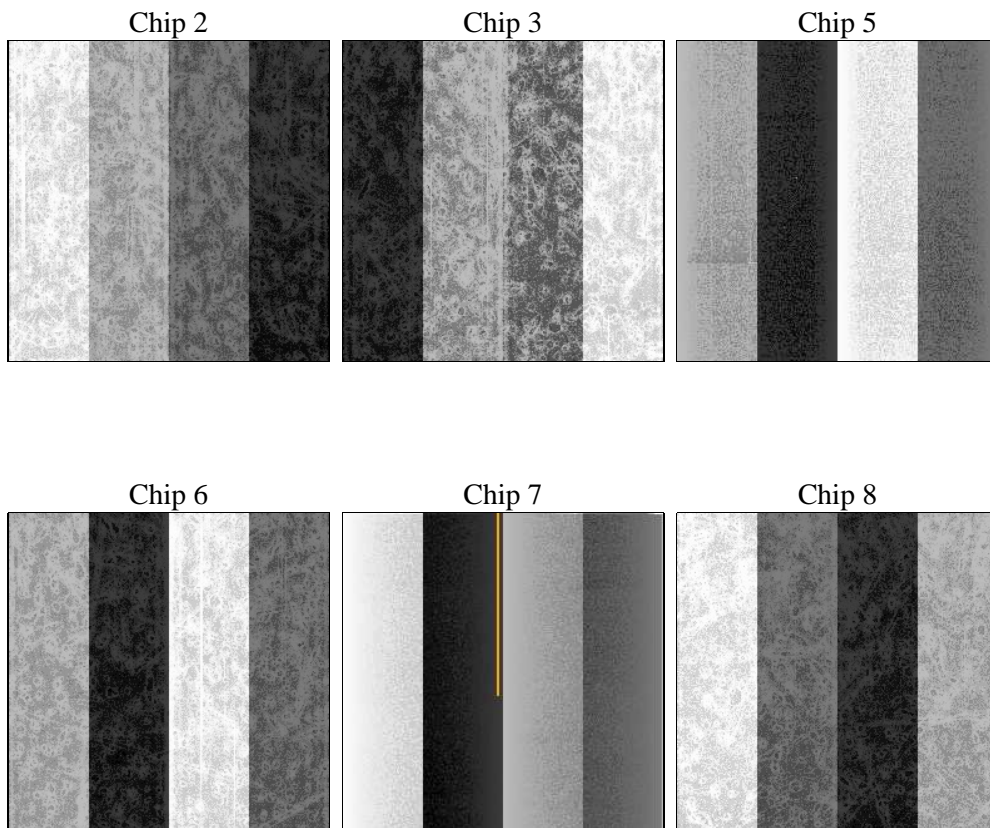
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	34059.128000	[s] Scheduled observation exposure time
ascdsver	8.4.3.1	Processing system revision	ontime	34217.599872589	Sum of GTIs [s]
caldbver	4.4.9	 	ontime2	34217.599872589	Sum of GTIs [s]
date	2012-04-16T05:03:30	Date and time of file creation	ontime3	34204.635961354	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	34214.358902276	Sum of GTIs [s]
			ontime6	34211.117912114	Sum of GTIs [s]
			ontime7	34217.599872589	Sum of GTIs [s]
			ontime8	34217.599872589	Sum of GTIs [s]
			l1events	1571182	Number of level 1 events

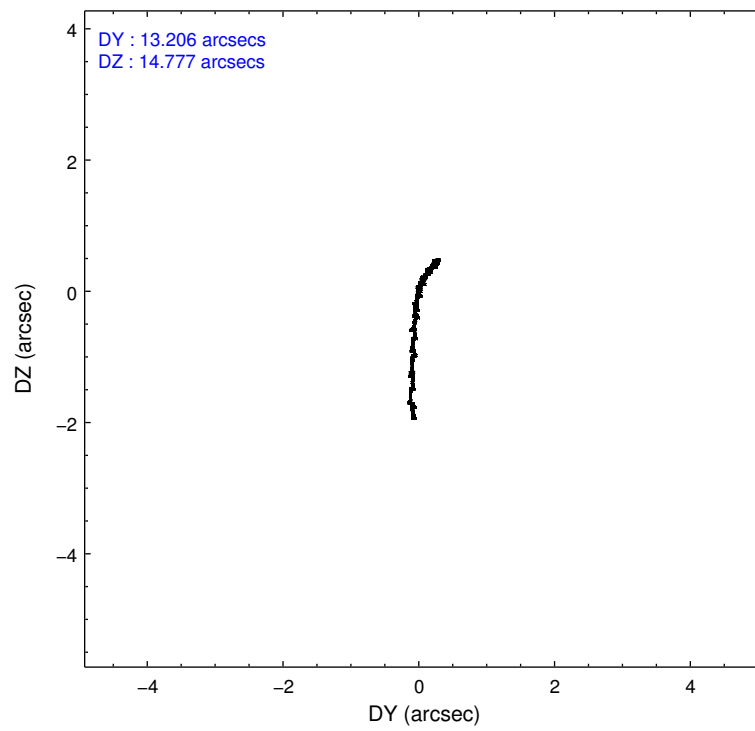
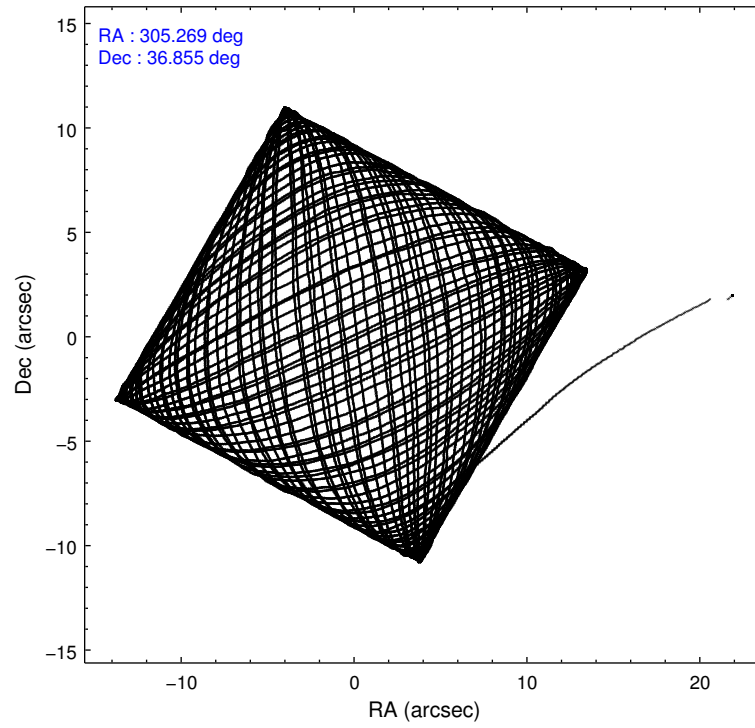
2.1.4 Events

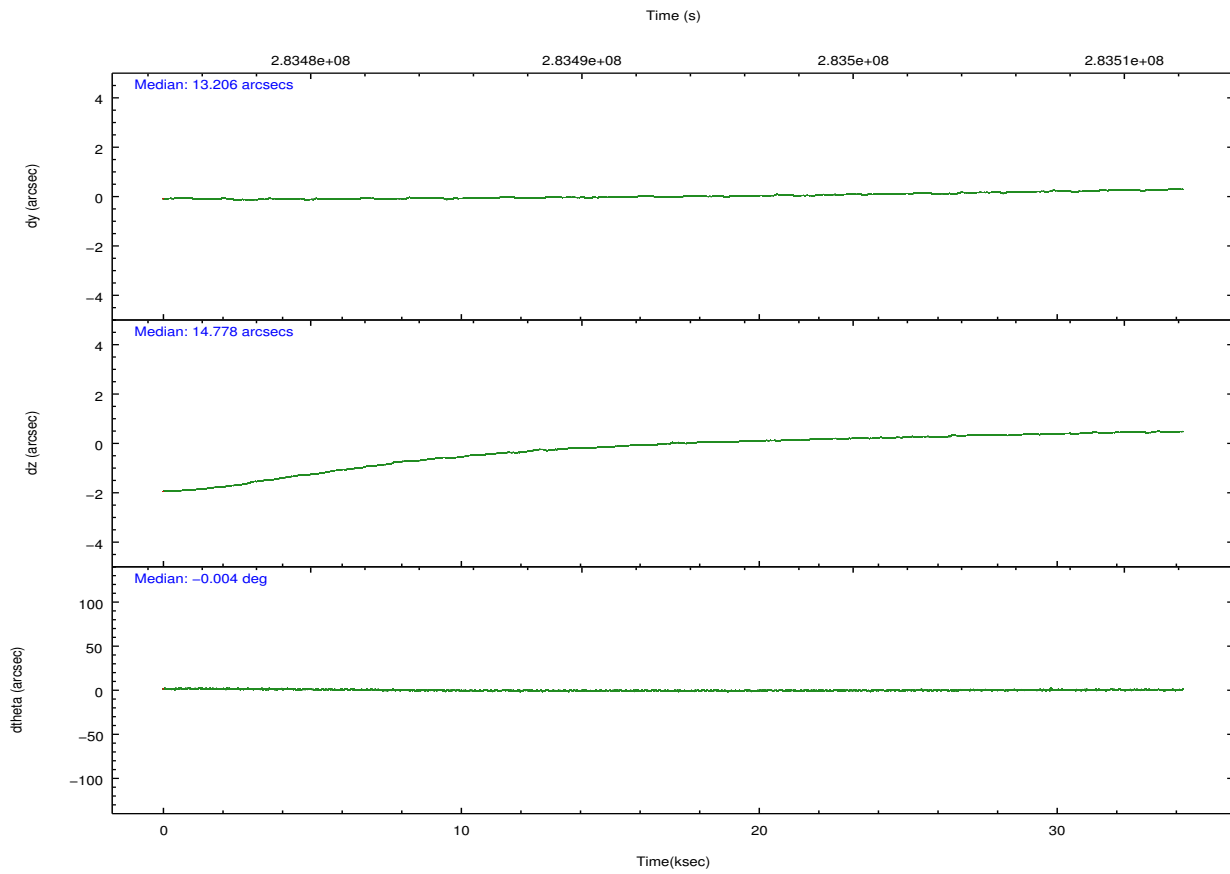
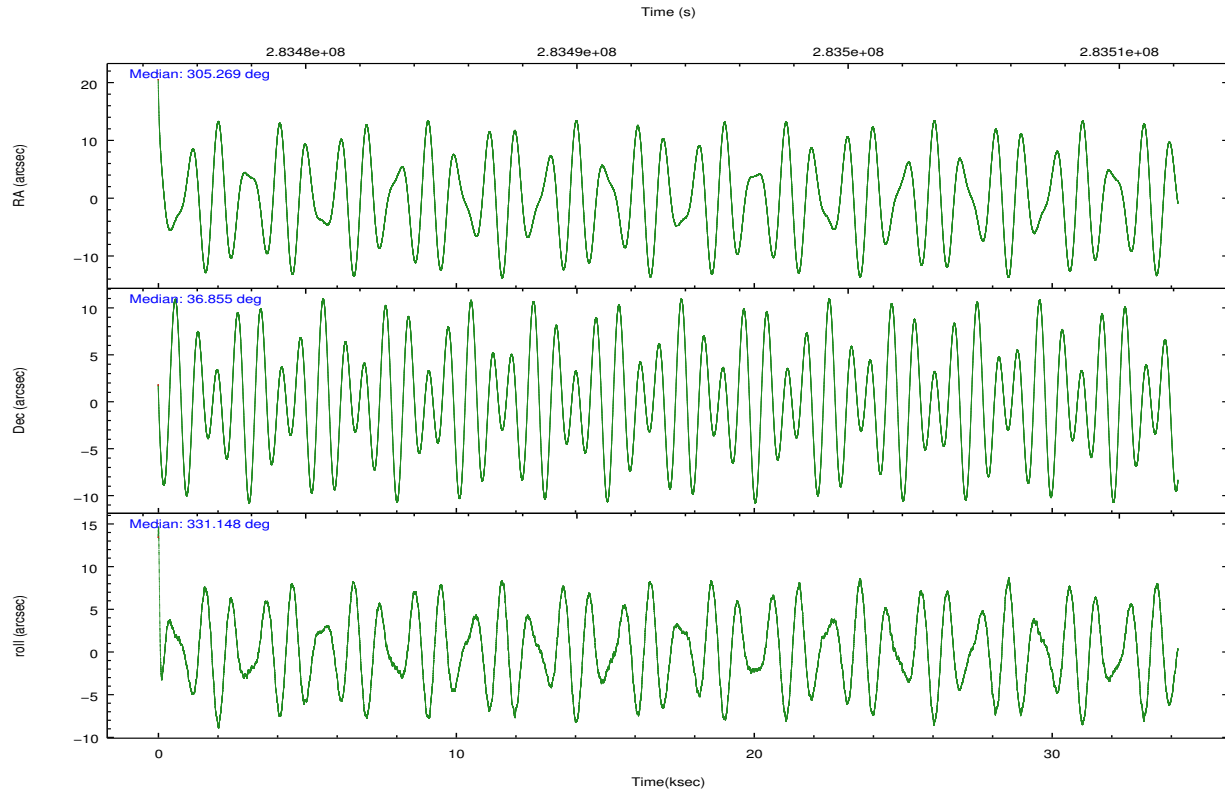
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	262508	229456	303193	240136	241977	293912	grade 0 events	9174	9417	17464	13349	15891	22204
rejected events	238800	206426	142623	210364	114034	220149		3%	4%	5%	5%	6%	7%
rejected %	90%	89%	47%	87%	47%	74%	grade 1 events	156	138	730	119	354	247
								0%	0%	0%	0%	0%	0%
							grade 2 events	5649	4796	50182	5956	27859	17084
								2%	2%	16%	2%	11%	5%
							grade 3 events	2487	2542	7615	2767	12657	8197
								0%	1%	2%	1%	5%	2%
							grade 4 events	2496	2458	7283	2853	12285	7575
								0%	1%	2%	1%	5%	2%
							grade 5 events	6688	8146	24368	8130	24081	12136
								2%	3%	8%	3%	9%	4%
							grade 6 events	4047	3935	78957	4971	59842	19036
								1%	1%	26%	2%	24%	6%
							grade 7 events	231811	198024	116594	201991	89008	207433
								88%	86%	38%	84%	36%	70%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	305.235085	305.2692488152219	CCD I2 on	O1	Y
[deg] Pointing Dec	36.854512	36.8554269073402	CCD I3 on	O2	Y
[deg] Pointing Roll	331.020185	331.1563363003151	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	283476416.184000	283475259.3804	CCD S5 on	N	N
Observation start date	2006-12-25T23:25:51	2006-12-25T23:07:39	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	283510476.184000	283510706.44458	On-chip summing requested	N	N
Observation end date	2006-12-26T08:53:31	2006-12-26T08:58:26	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



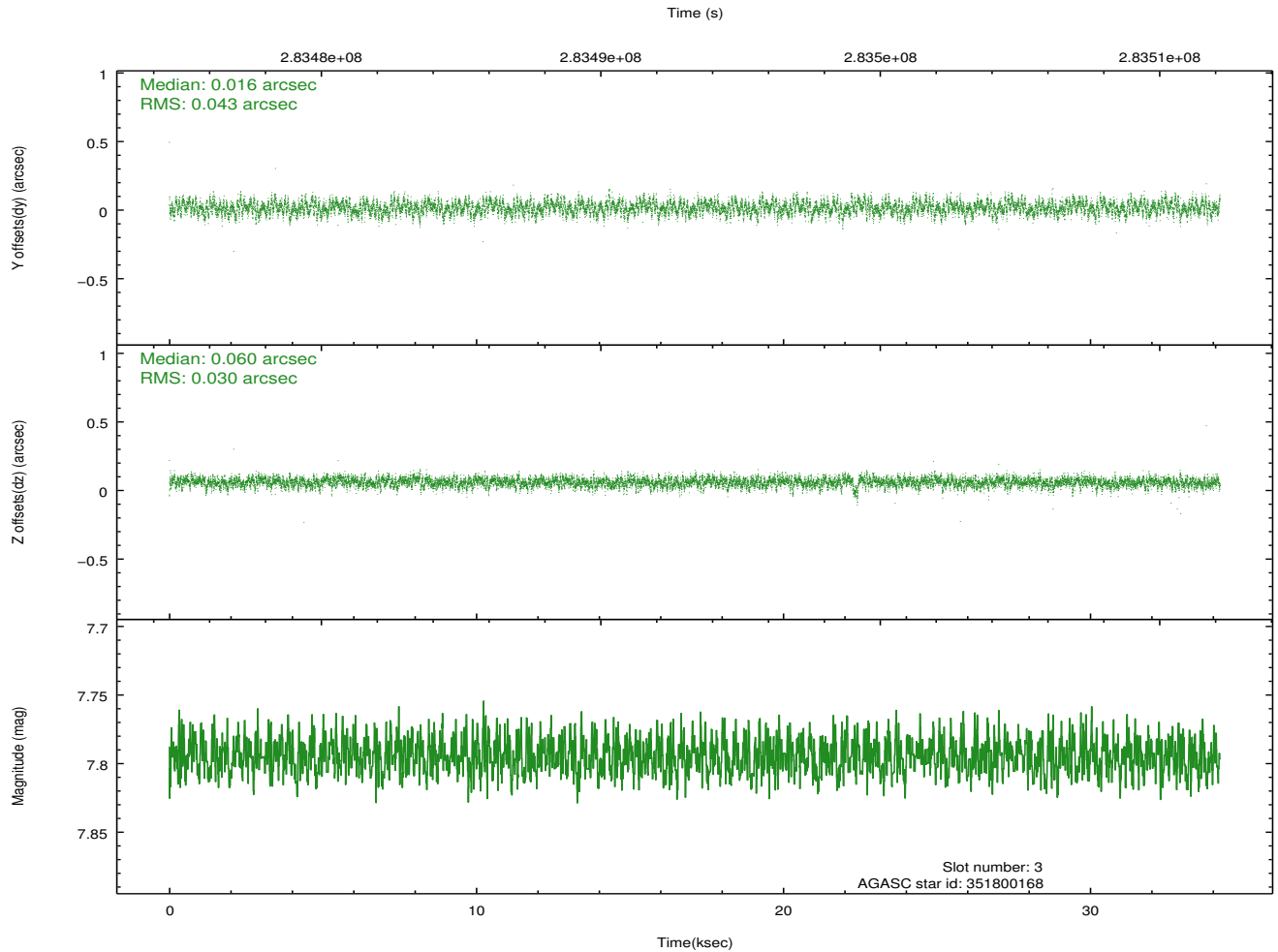
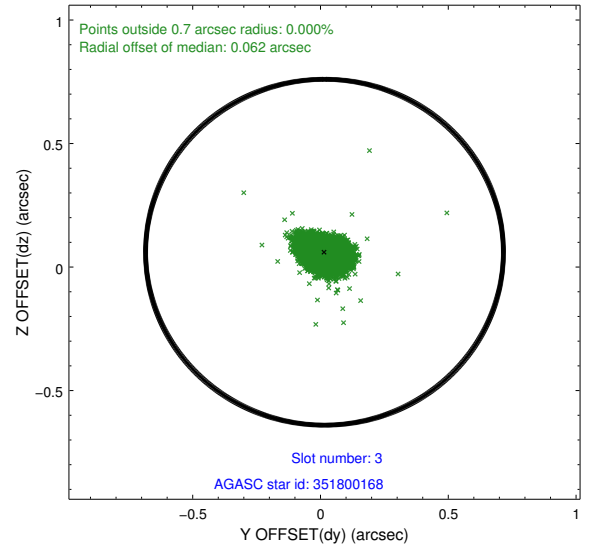
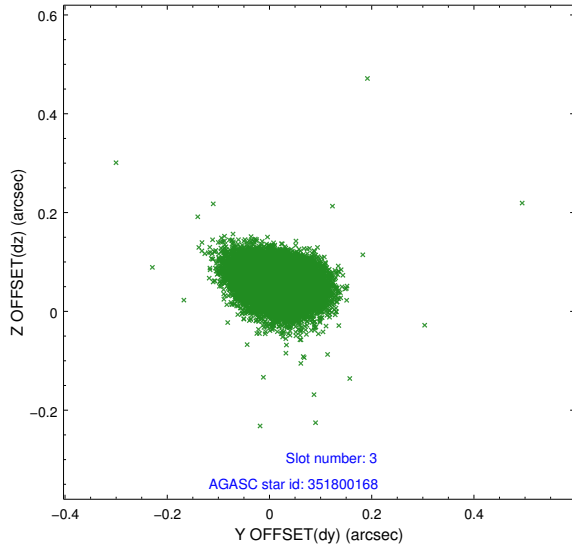


Slot Statistics

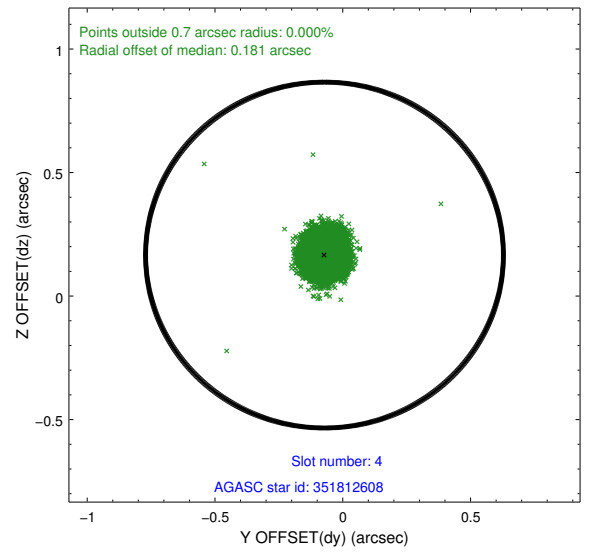
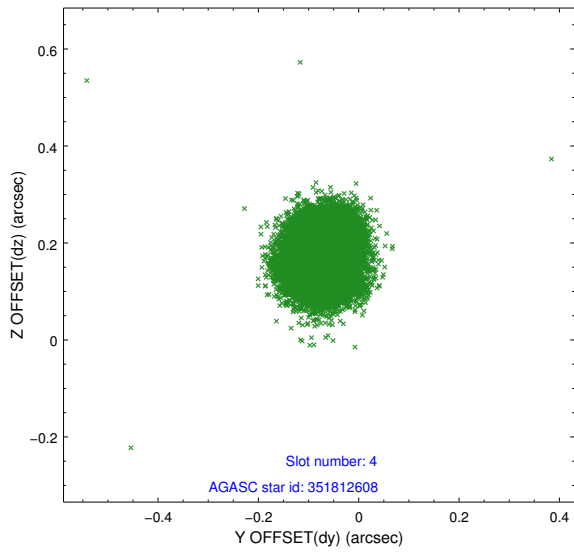
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	8349	-0.102	-0.073	0.009	0.021	0.000000	0.000000	-766.26	-1735.88
1	FID	ACIS-S-4	7.20	8349	0.125	0.041	0.008	0.018	0.000000	0.000000	2147.22	172.67
2	FID	ACIS-S-6	7.34	8347	-0.052	0.039	0.007	0.012	0.000000	0.000000	395.83	810.11
3	GUIDE	351800168	7.79	16695	0.016	0.060	0.054	0.091	305.528703	36.233666	1828.54	-1540.63
4	GUIDE	351812608	8.24	16694	-0.072	0.166	0.063	0.099	304.539634	36.570010	-1265.86	-1863.84
5	GUIDE	351806136	7.06	16697	-0.029	0.043	0.078	0.129	304.951337	37.132517	-1197.82	481.83
6	GUIDE	351801784	7.18	16695	0.154	0.052	0.068	0.118	305.950156	37.026138	1494.82	1543.33
7	GUIDE	413147200	6.16	16626	-0.082	-0.324	0.039	0.063	305.410623	37.533048	-745.54	2379.82

2.4 Star Slots

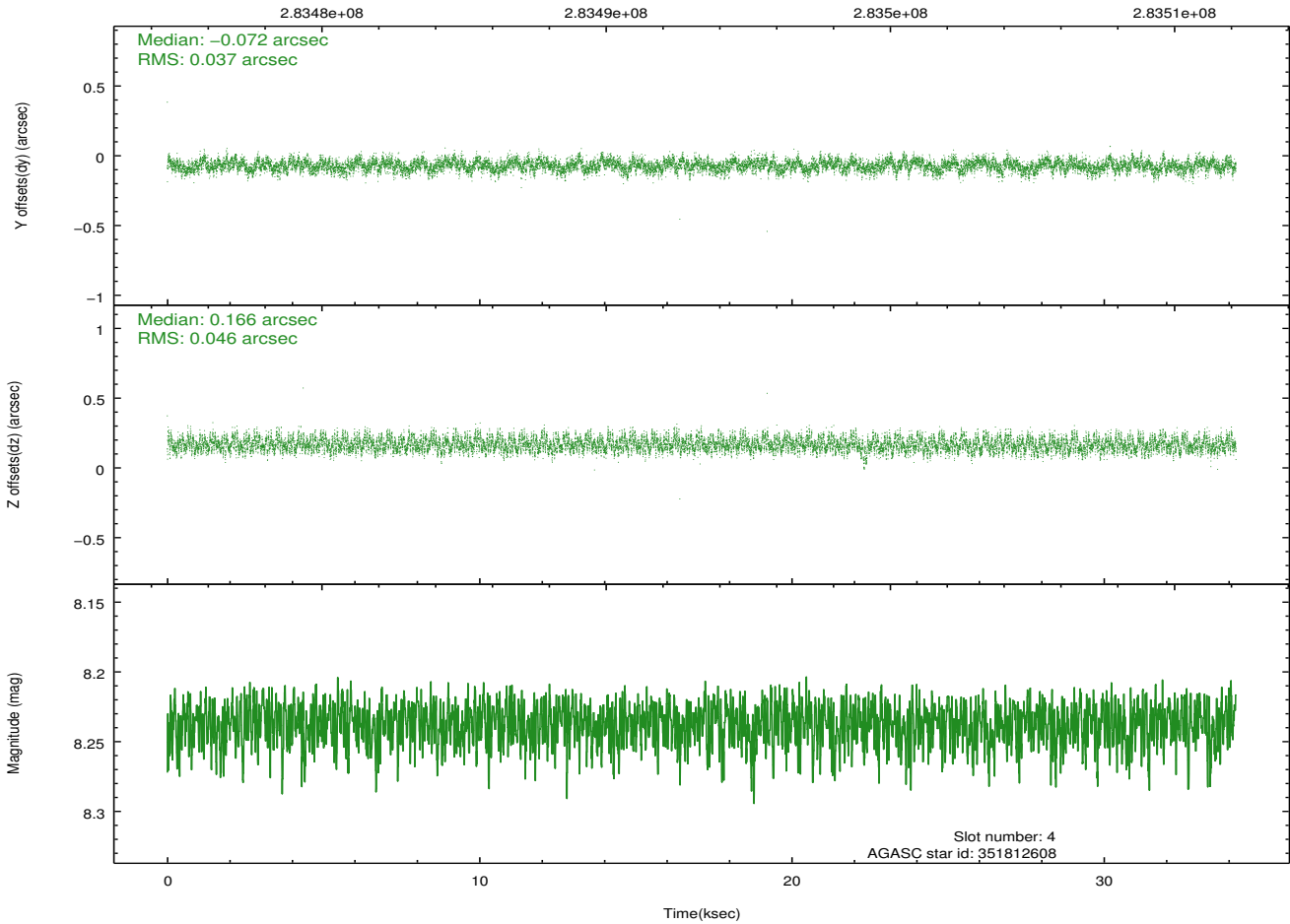
2.4.1 Slot 3



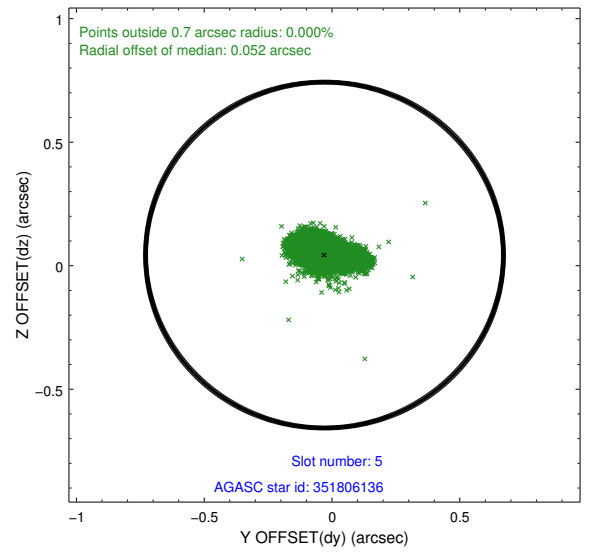
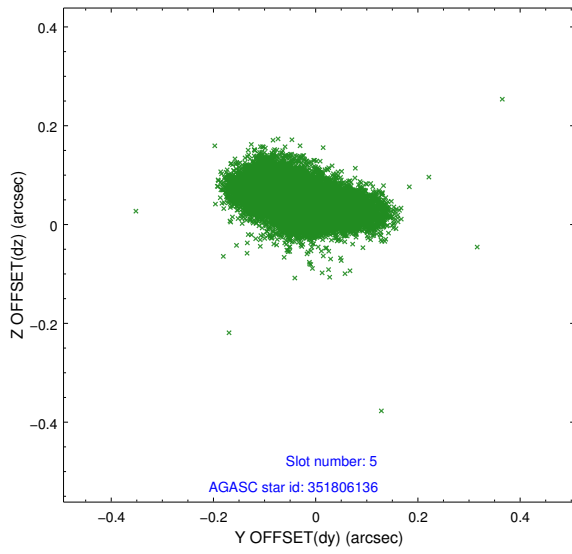
2.4.2 Slot 4



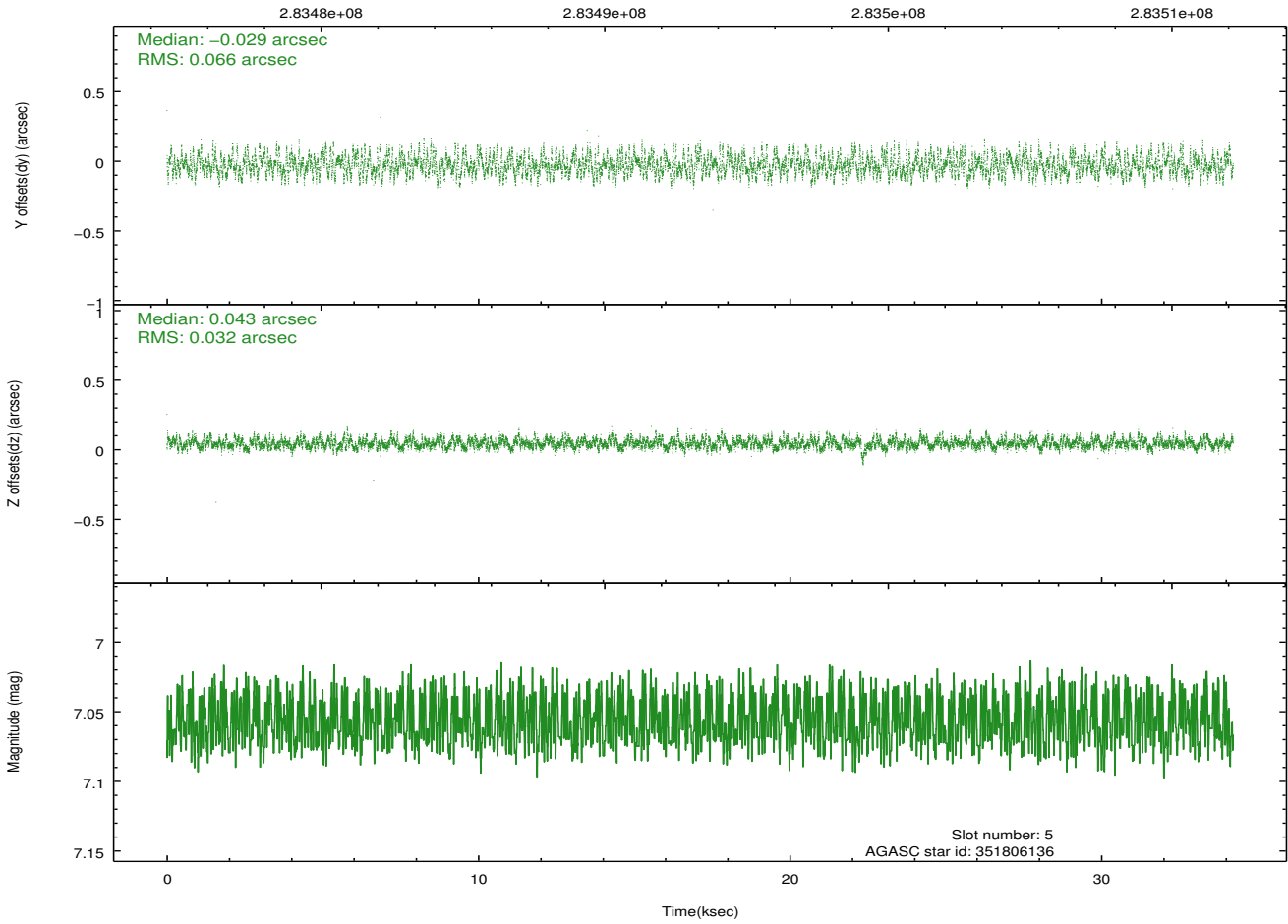
Time (s)



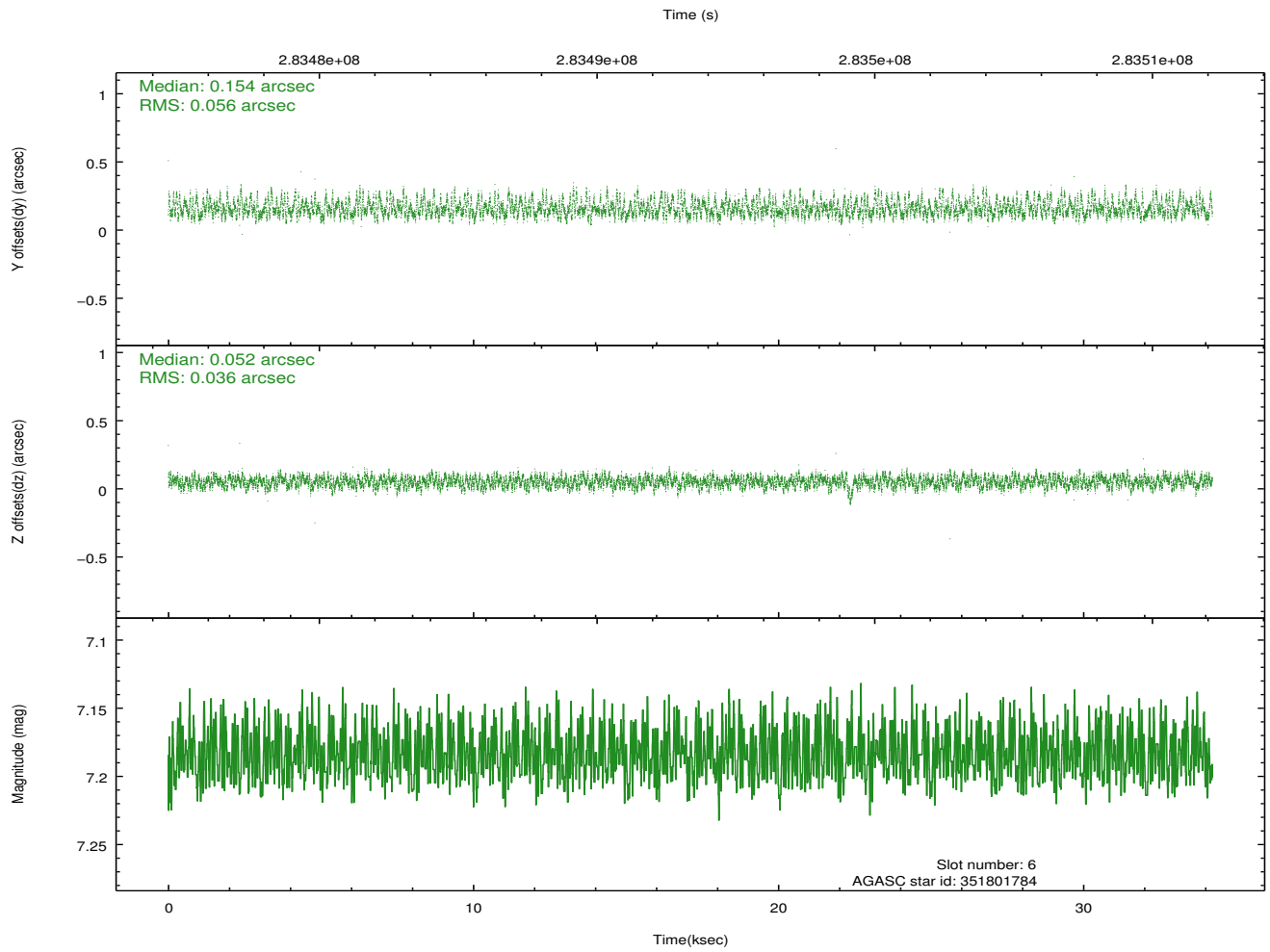
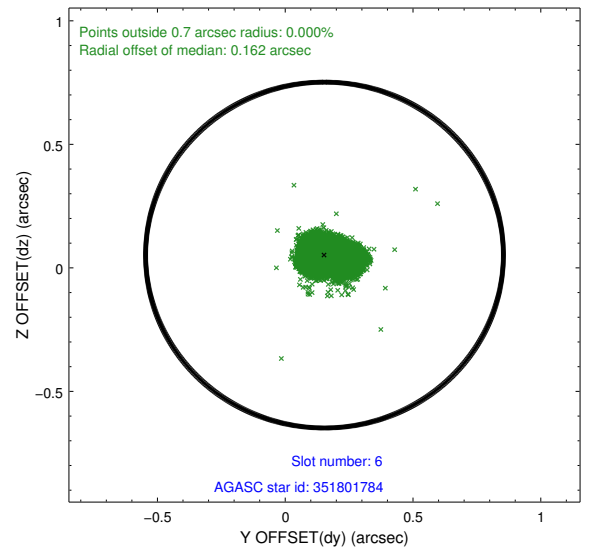
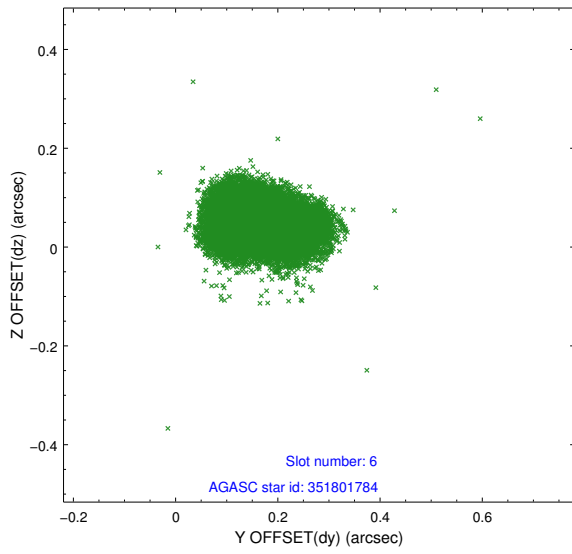
2.4.3 Slot 5



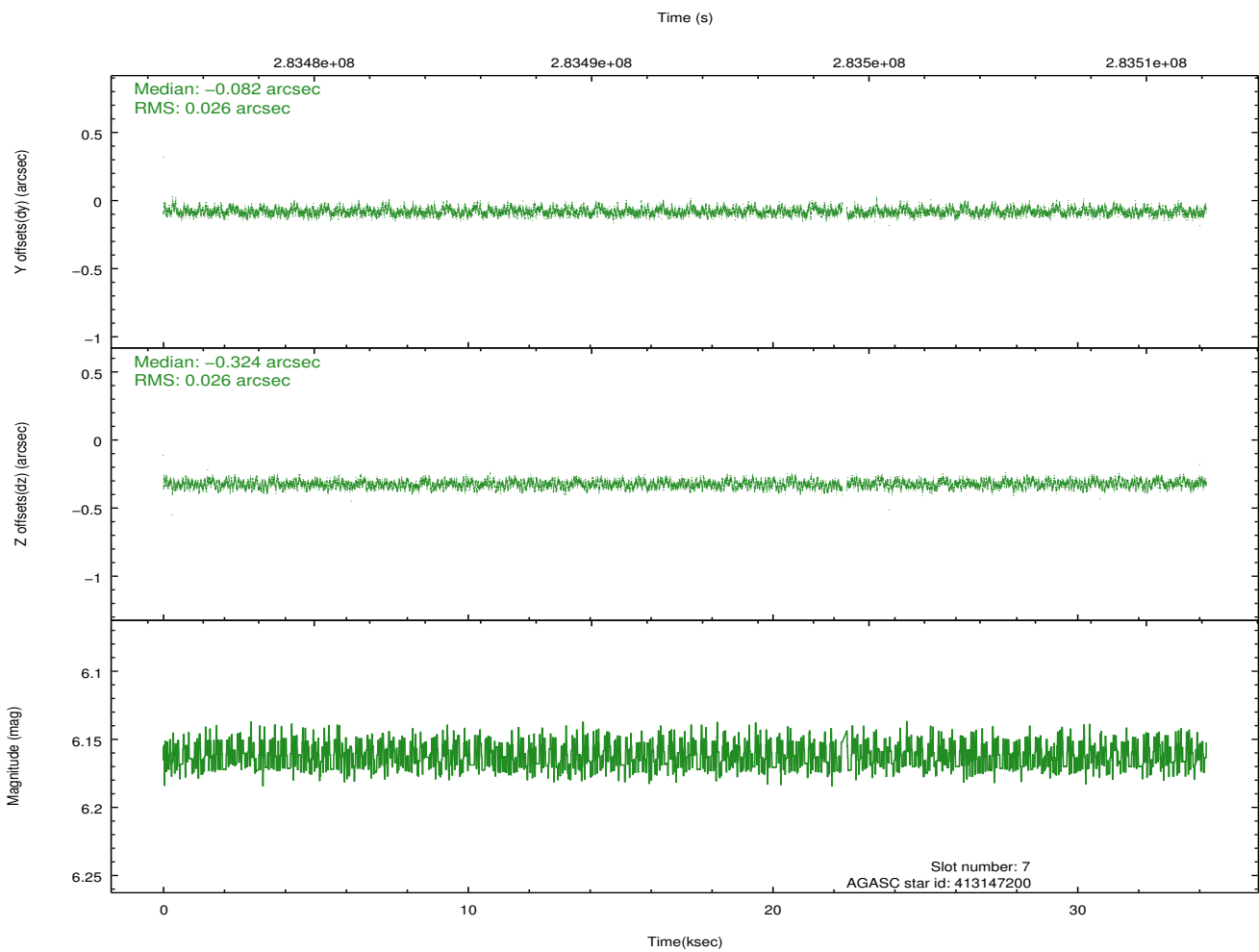
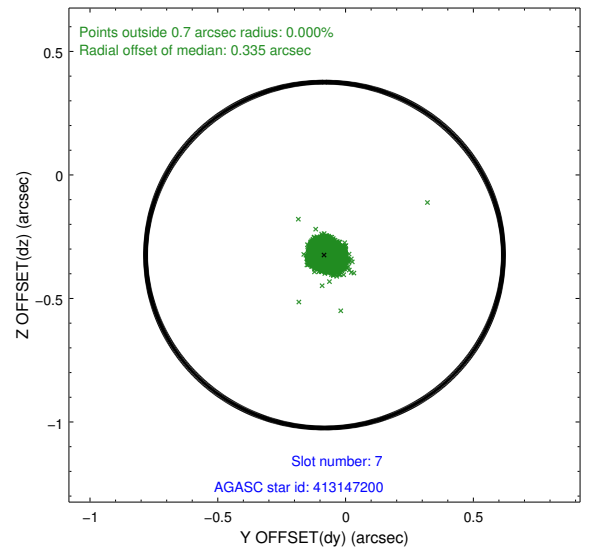
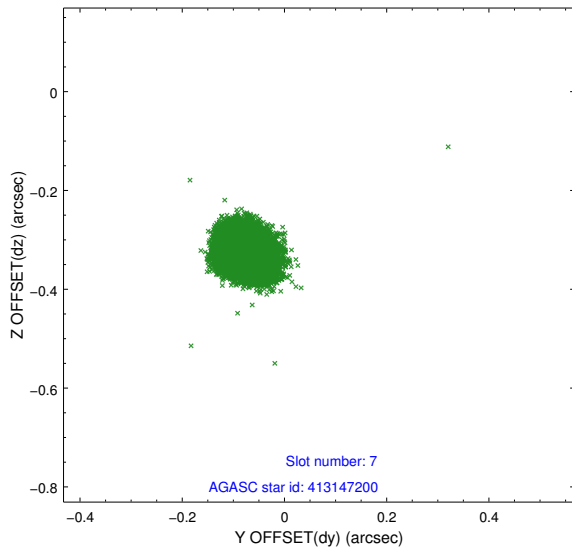
Time (s)



2.4.4 Slot 6

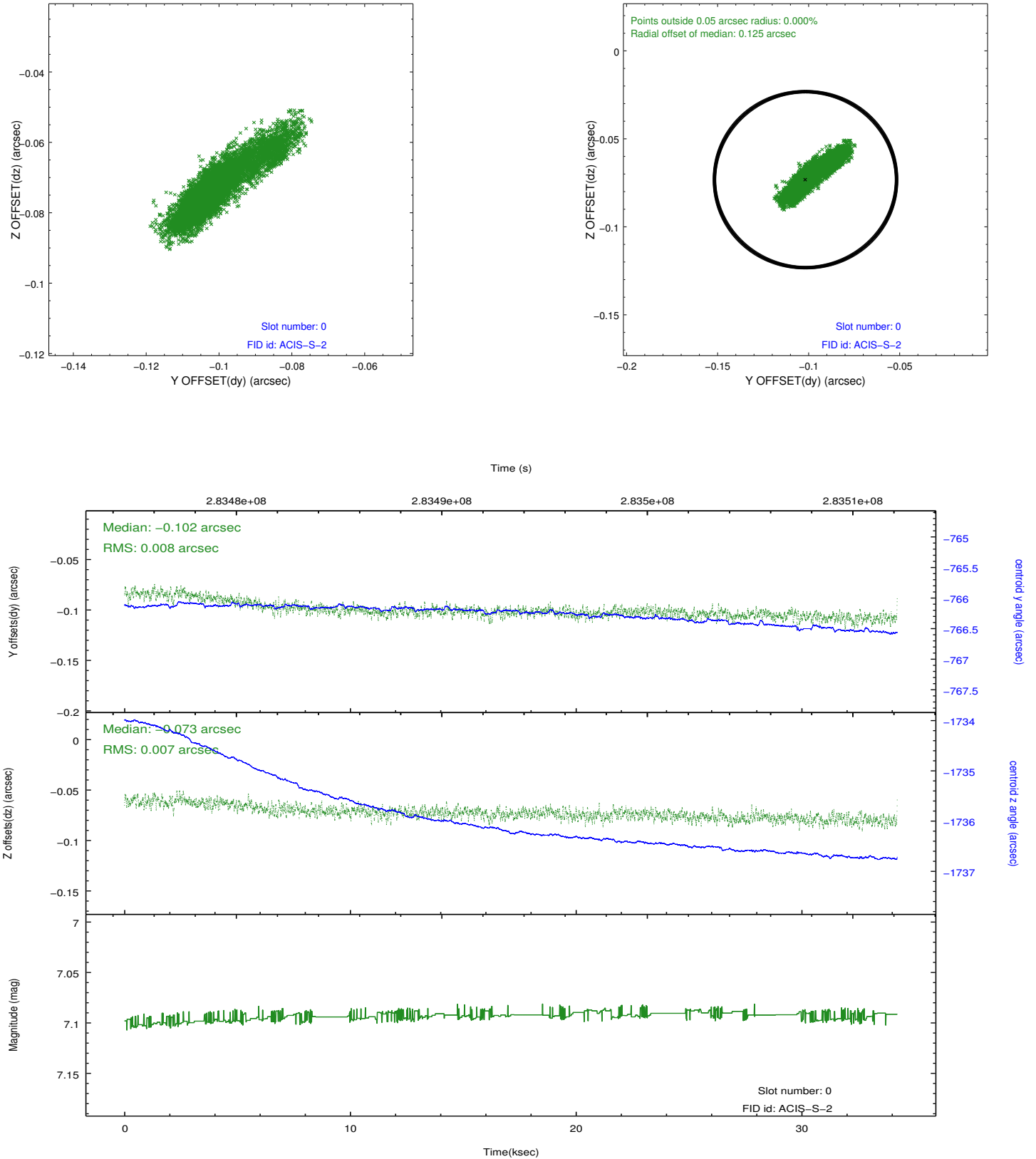


2.4.5 Slot 7

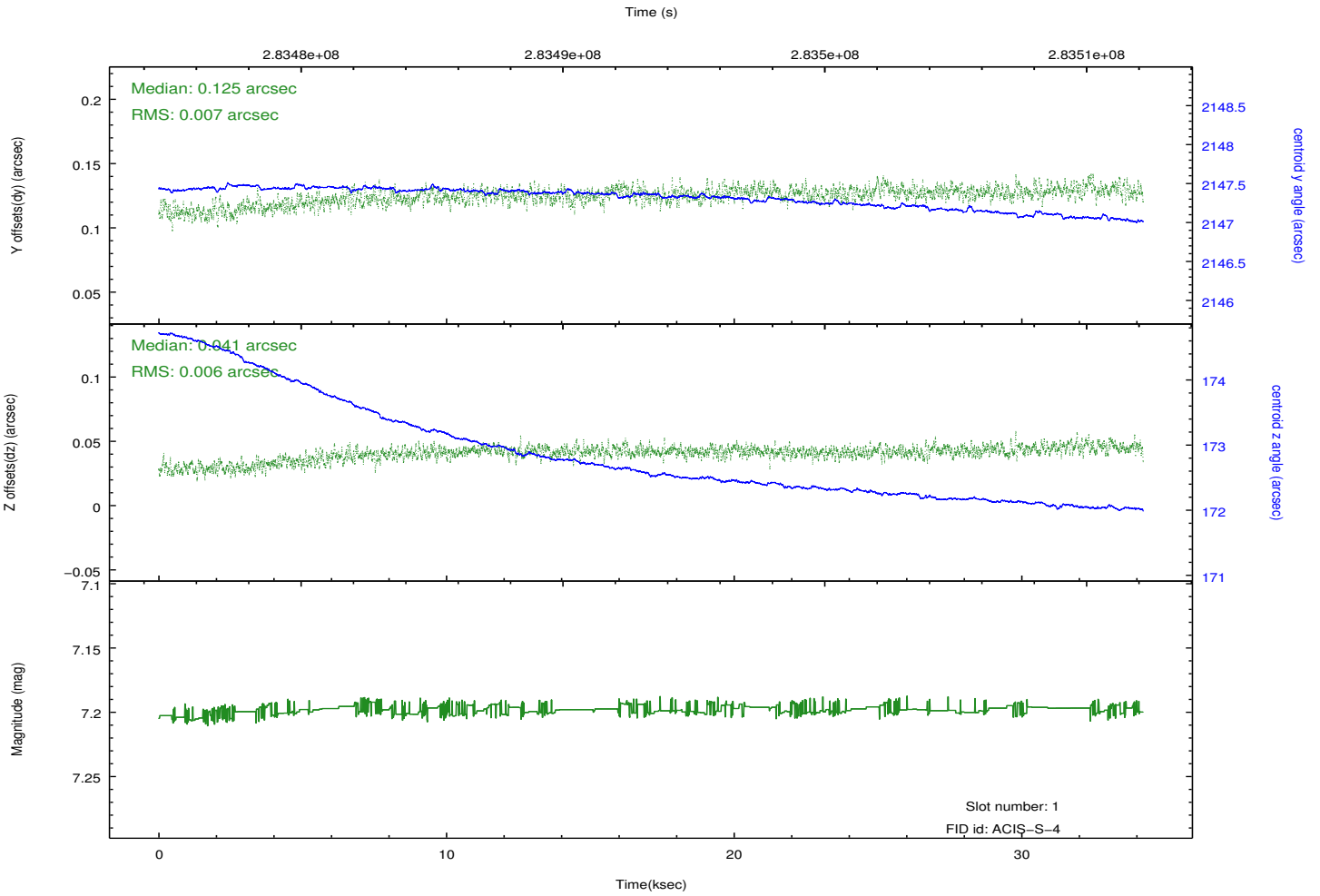
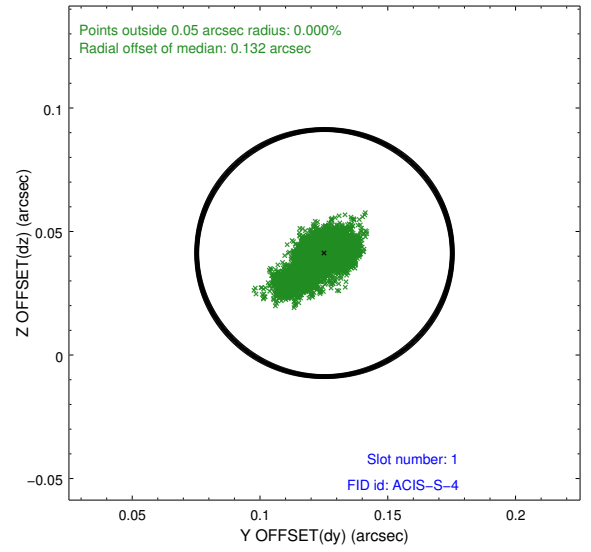
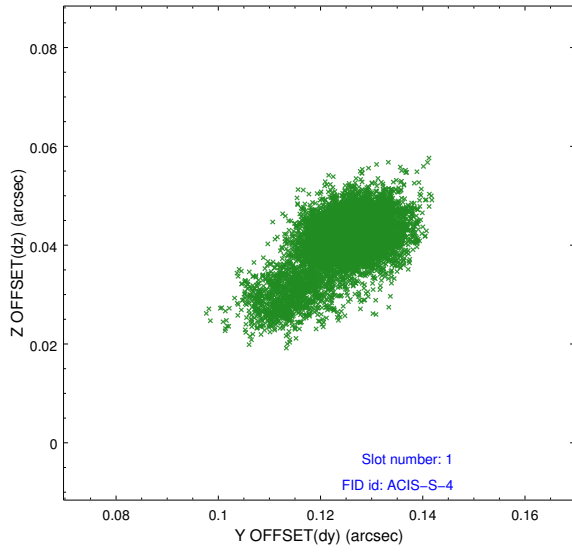


2.5 FID Slots

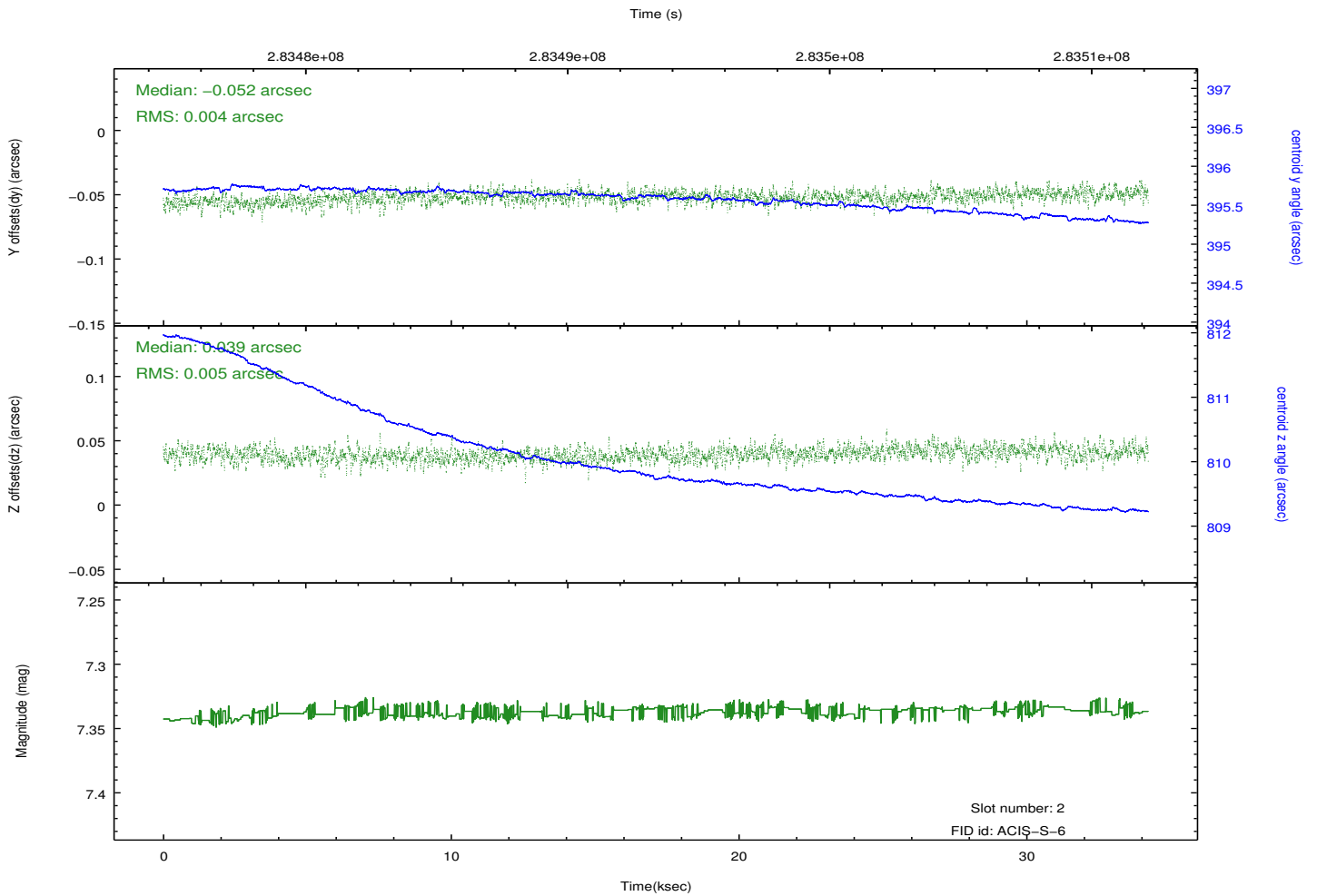
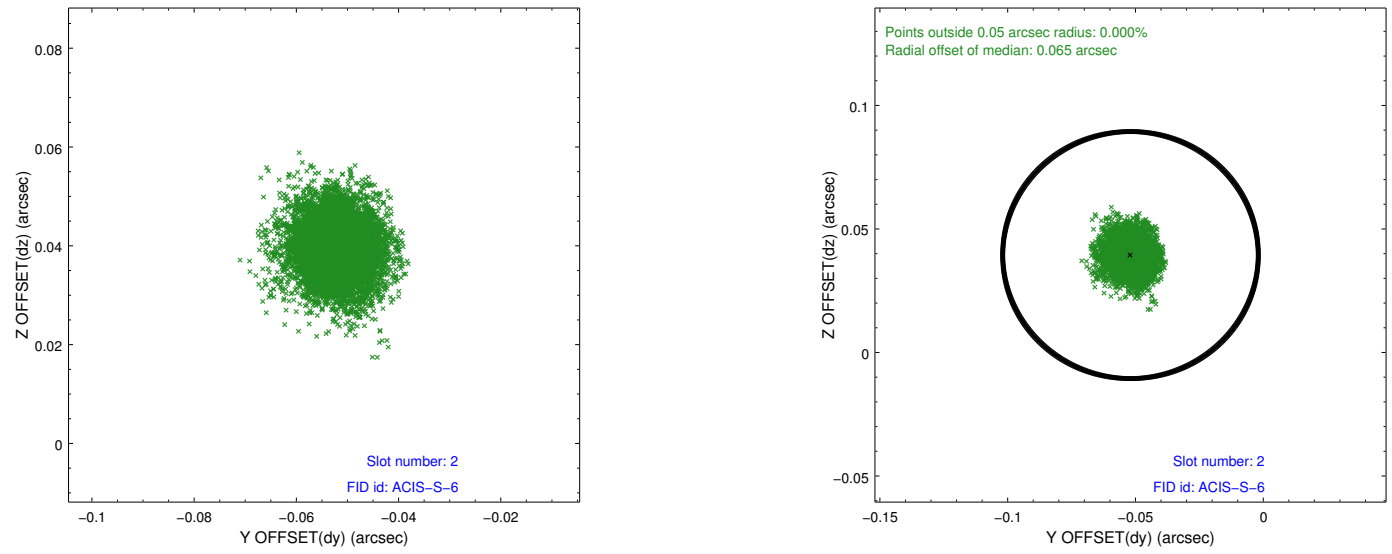
2.5.1 Slot 0



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)	2012.04.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	34.2175998

A.2 Comments

X-ray source is centered approximately 25 arcsec SSE of the requested coordinates for this object. Roll preference met.