

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 10974 - L2 Version 3
Chandra X-Ray Center

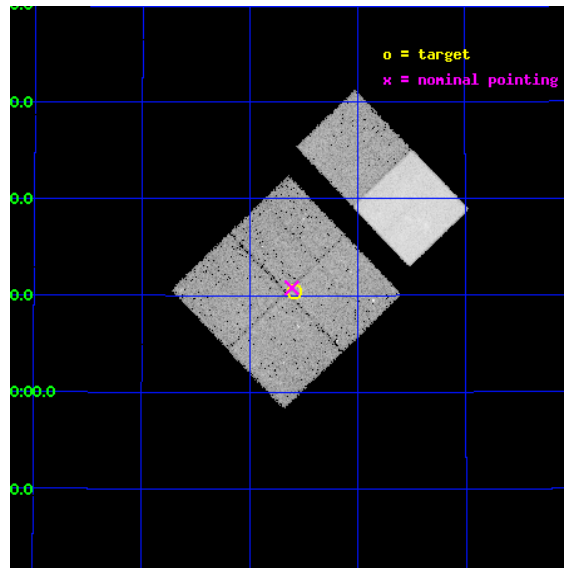
L2 Processing Date : Jun 22 2012

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1 Front

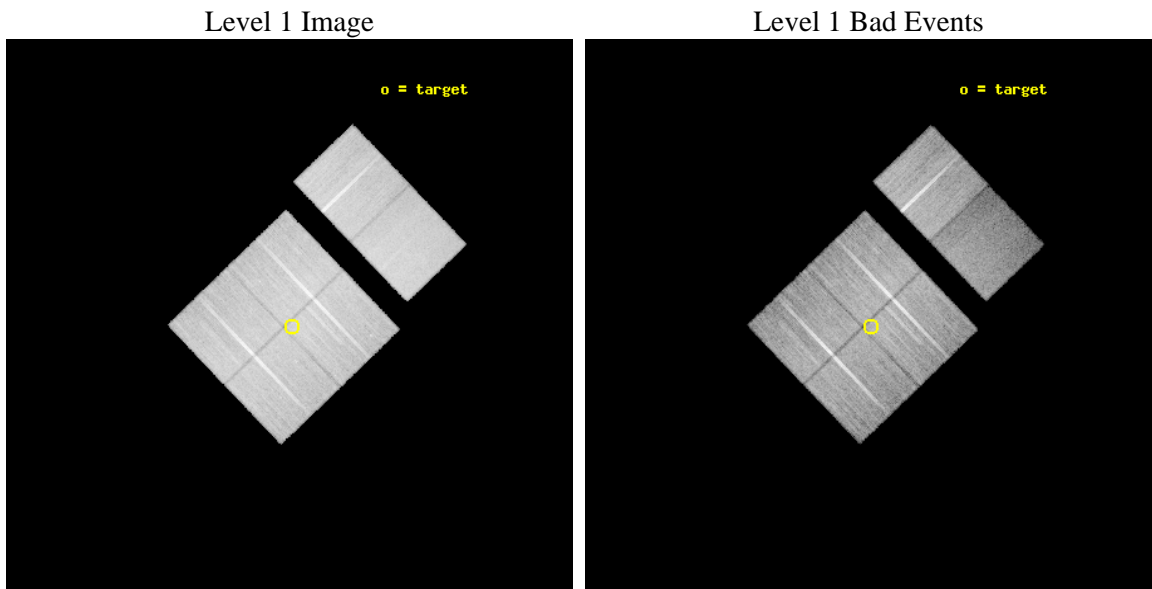
seq_num	200606	Sequence number
obs_id	10974	Observation id
title	The Chandra Cygnus OB2 Survey	Proposal title
observer	Dr. Jeremy Drake	Principal investigator
object	Cygnus OB2	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	308.897599	Observer's specified target RA [deg]
dec_targ	41.172894	Observer's specified target Dec [deg]
ra_nom	308.90238997516	Nominal RA [deg]
dec_nom	41.180114920947	Nominal Dec [deg]
roll_nom	46.205536519464	Nominal Roll [deg]
revision	3	Processing version of data
ontime	27756.799896657	Sum of GTIs [s]
livetime	27405.326583228	Livetime [s]
ontime0	27753.558906436	Sum of GTIs [s]
ontime1	27753.559025884	Sum of GTIs [s]
ontime2	27756.799896657	Sum of GTIs [s]
ontime3	27756.799896657	Sum of GTIs [s]
ontime6	27750.317966044	Sum of GTIs [s]
ontime7	27756.799896657	Sum of GTIs [s]
l2events	192766	Number of level 2 events



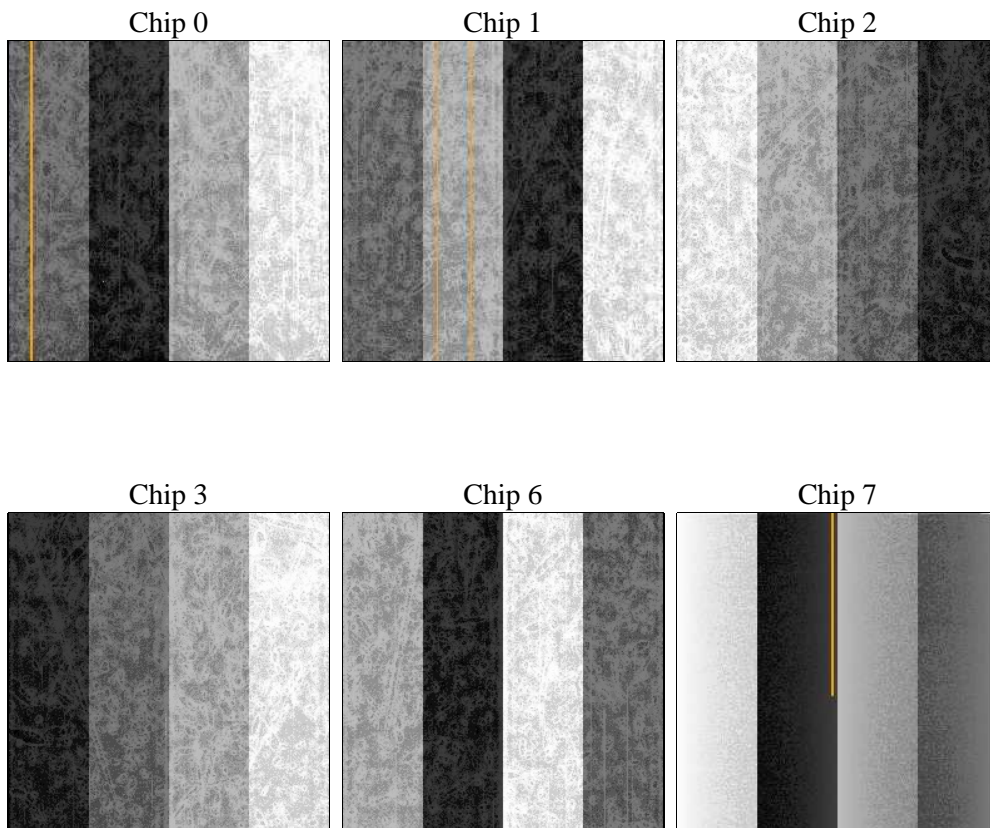
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	28000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	27756.799896657	Sum of GTIs [s]
caldsver	4.4.10	 	ontime0	27753.558906436	Sum of GTIs [s]
date	2012-06-22T21:16:00	Date and time of file creation	ontime1	27753.559025884	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	27756.799896657	Sum of GTIs [s]
			ontime3	27756.799896657	Sum of GTIs [s]
			ontime6	27750.317966044	Sum of GTIs [s]
			ontime7	27756.799896657	Sum of GTIs [s]
			l1events	1213459	Number of level 1 events

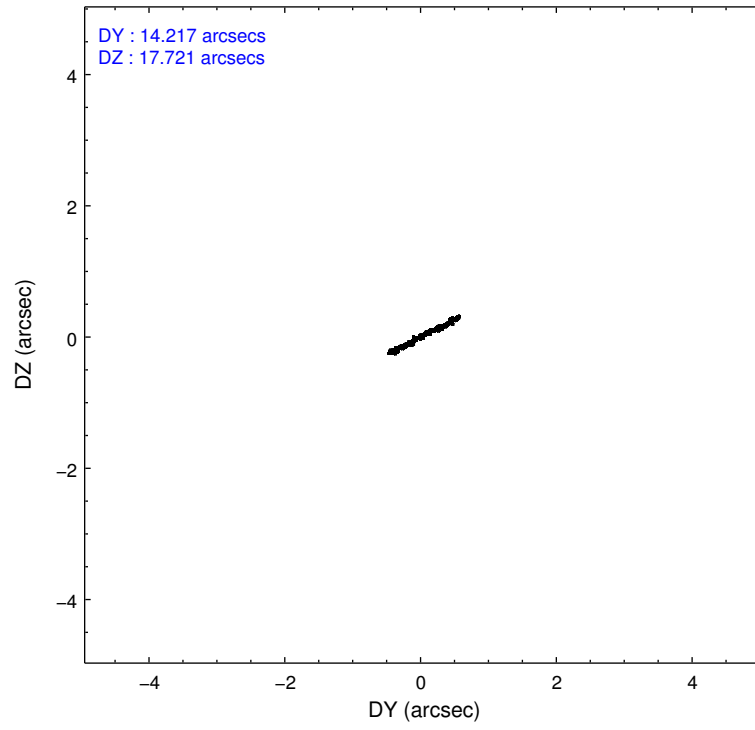
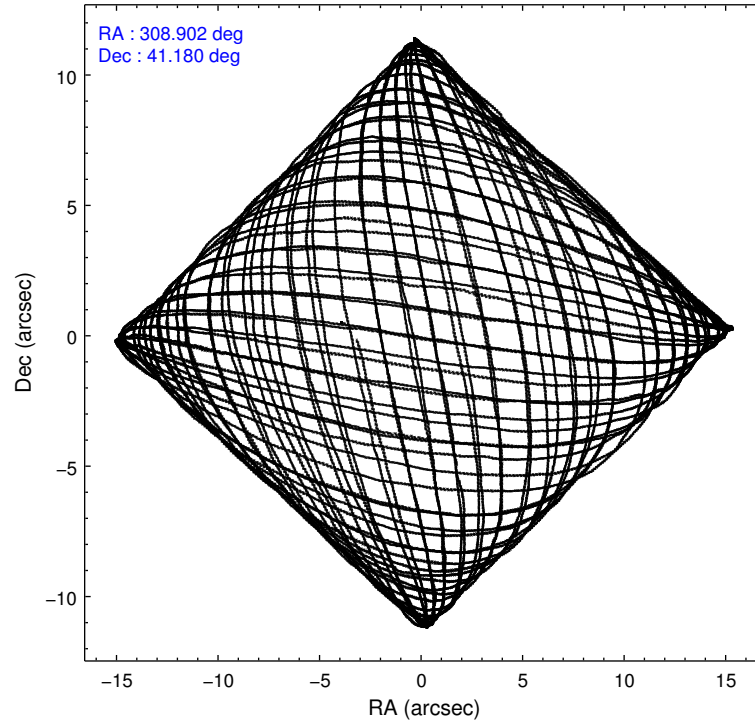
2.1.4 Events

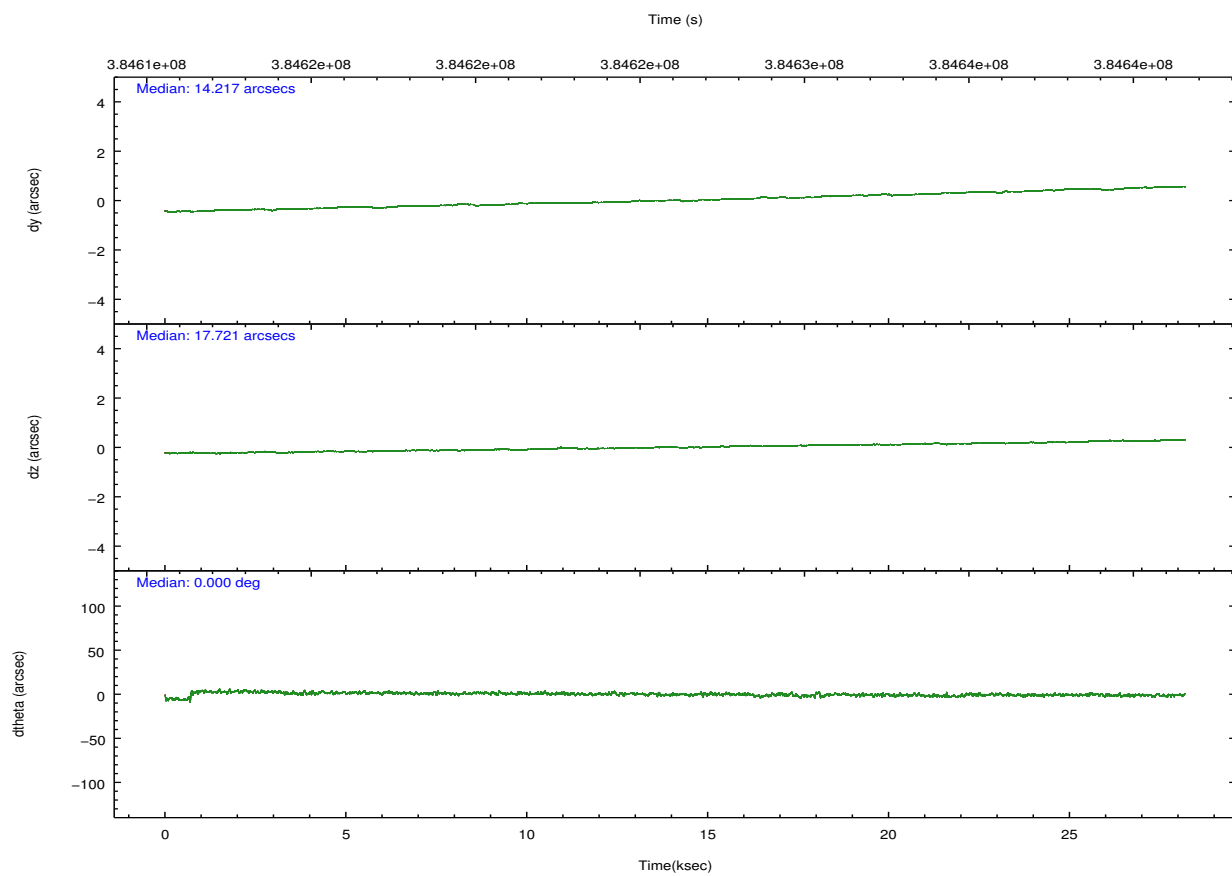
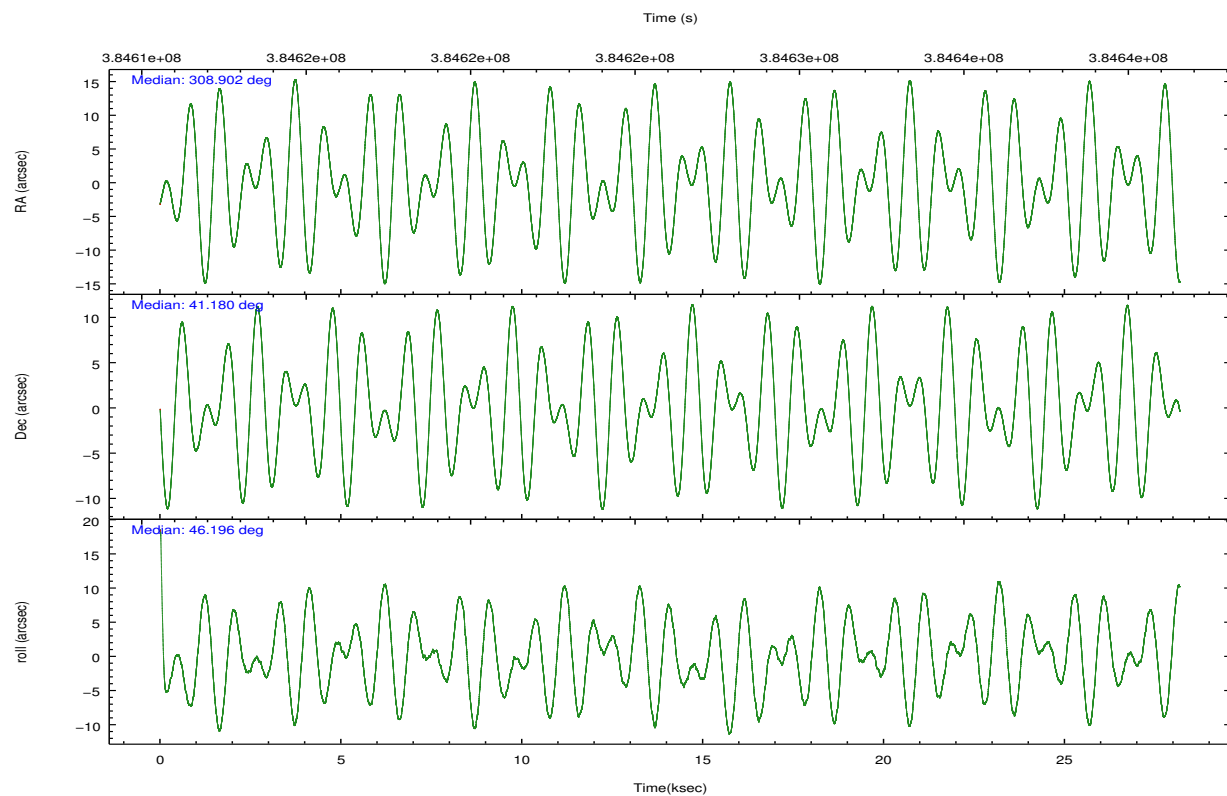
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	192751	186320	210283	203384	210757	209964	grade 0 events	8283	8193	8414	8250	8731	10907
rejected events	170327	163286	188753	182093	187657	105955		4%	4%	4%	4%	4%	5%
rejected %	88%	87%	89%	89%	89%	50%	grade 1 events	101	107	140	143	138	318
								0%	0%	0%	0%	0%	0%
							grade 2 events	5488	5301	5142	4615	5168	22302
								2%	2%	2%	2%	2%	10%
							grade 3 events	2458	2543	2150	2246	2317	9687
								1%	1%	1%	1%	1%	4%
							grade 4 events	2208	2450	2207	2245	2326	9706
								1%	1%	1%	1%	1%	4%
							grade 5 events	6827	7360	6286	7600	7766	22619
								3%	3%	2%	3%	3%	10%
							grade 6 events	3990	4550	3618	3938	4558	51419
								2%	2%	1%	1%	2%	24%
							grade 7 events	163396	155816	182326	174347	179753	83006
								84%	83%	86%	85%	85%	39%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	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	308.893823	308.9023899751605	CCD I2 on	Y	Y
[deg] Pointing Dec	41.153390	41.18011492094701	CCD I3 on	Y	Y
[deg] Pointing Roll	46.002480	46.20553651946449	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	O2	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	384612160.184000	384611784.51161	CCD S5 on	N	N
Observation start date	2010-03-10T12:41:34	2010-03-10T12:36:24	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	384640160.184000	384641683.76313	On-chip summing requested	N	N
Observation end date	2010-03-10T20:28:14	2010-03-10T20:54:43	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



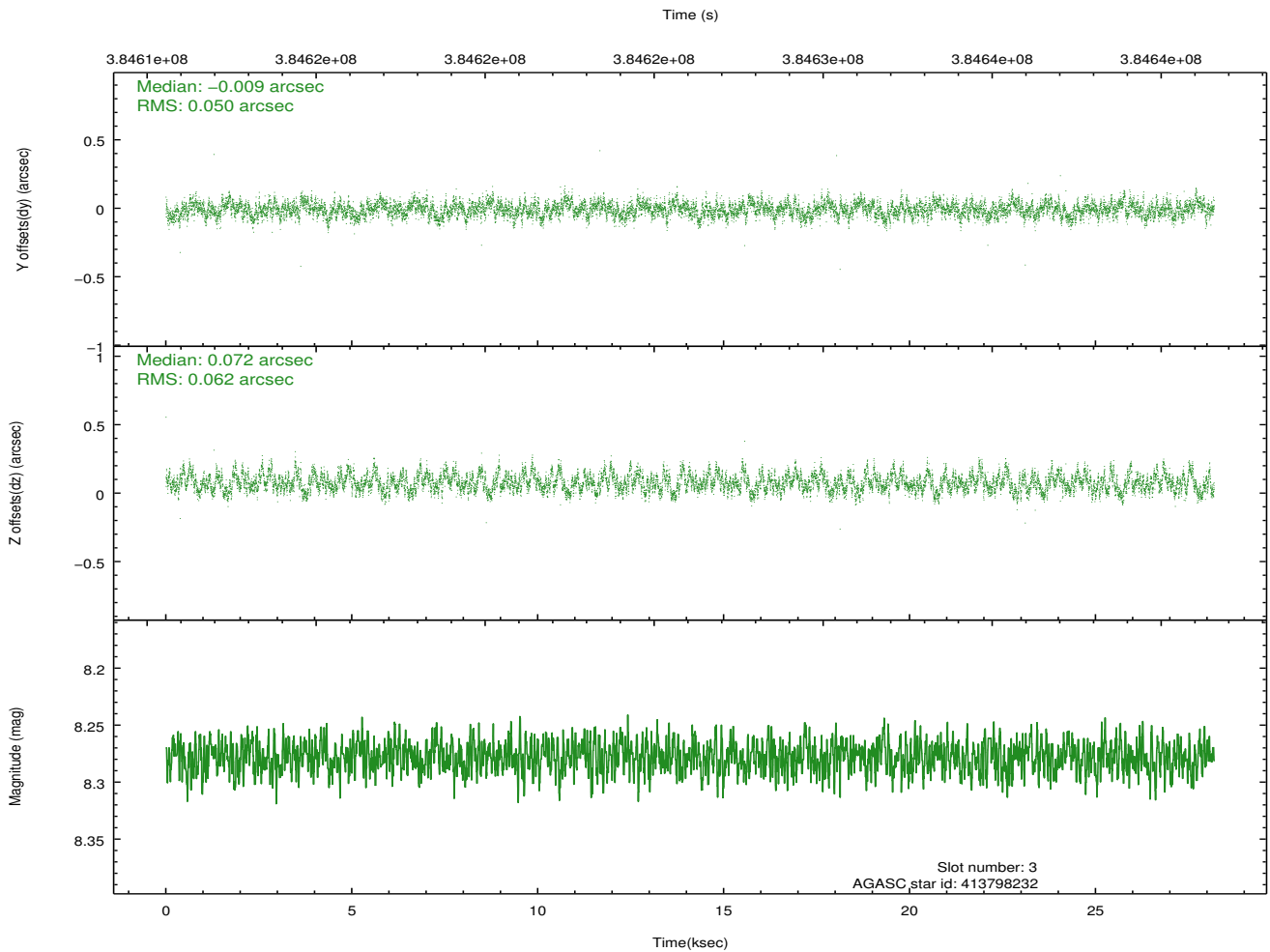
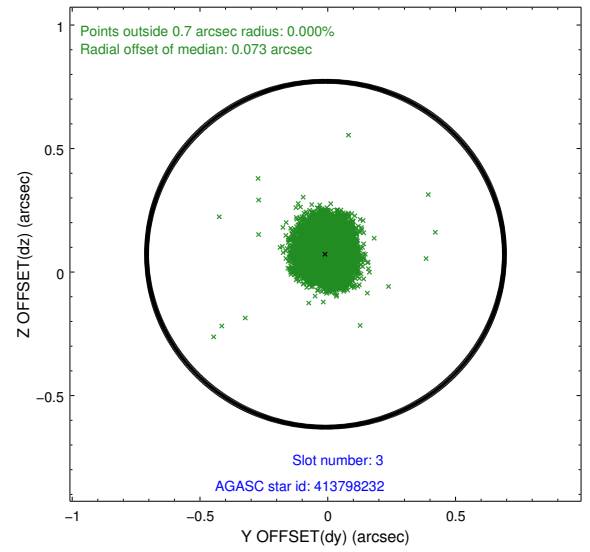
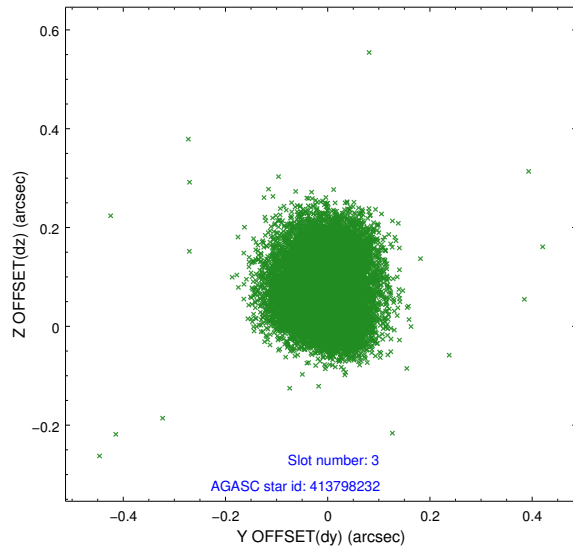


Slot Statistics

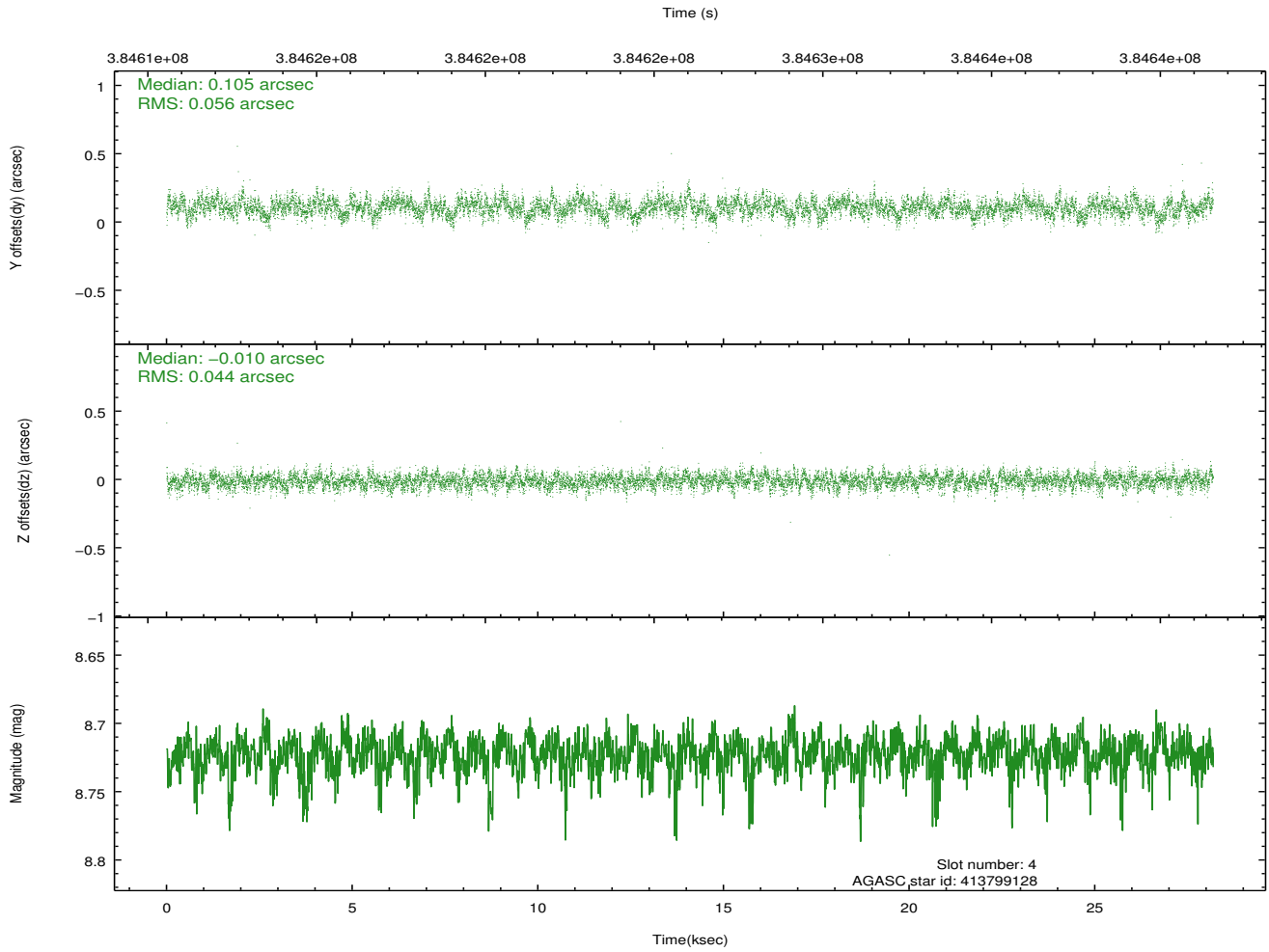
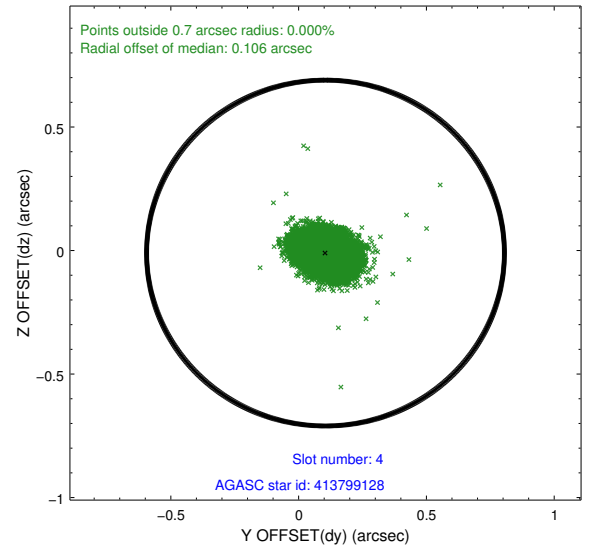
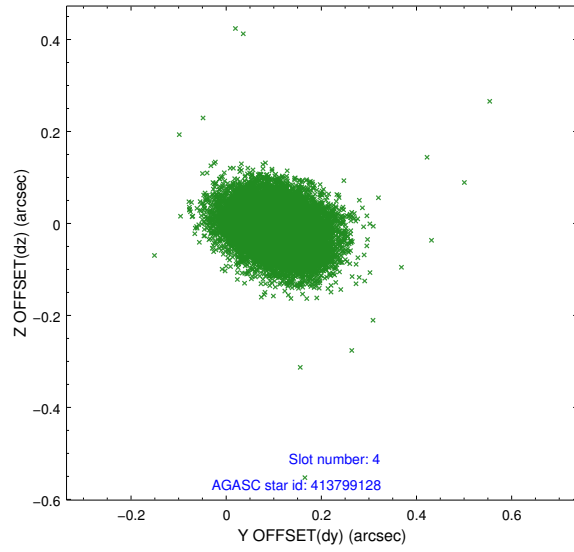
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.00	6875	-0.073	-0.044	0.008	0.018	0.000000	0.000000	925.13	-841.48
1	FID	ACIS-I-4	6.94	6873	0.007	0.089	0.008	0.018	0.000000	0.000000	2145.38	1058.36
2	OMITTED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
3	GUIDE	413798232	8.28	13743	-0.009	0.072	0.085	0.134	309.116117	41.044272	137.30	-706.31
4	GUIDE	413799128	8.72	13742	0.105	-0.010	0.074	0.122	307.948219	41.110579	-1882.17	1747.44
5	GUIDE	414326136	7.36	13748	-0.024	-0.175	0.068	0.105	308.256176	41.473642	-360.74	2042.74
6	GUIDE	414327224	7.98	13747	-0.006	0.021	0.078	0.121	309.355439	41.393115	1489.76	-294.32
7	GUIDE	413798056	8.89	13740	-0.064	0.084	0.085	0.138	309.494500	41.155486	1140.74	-1161.73

2.4 Star Slots

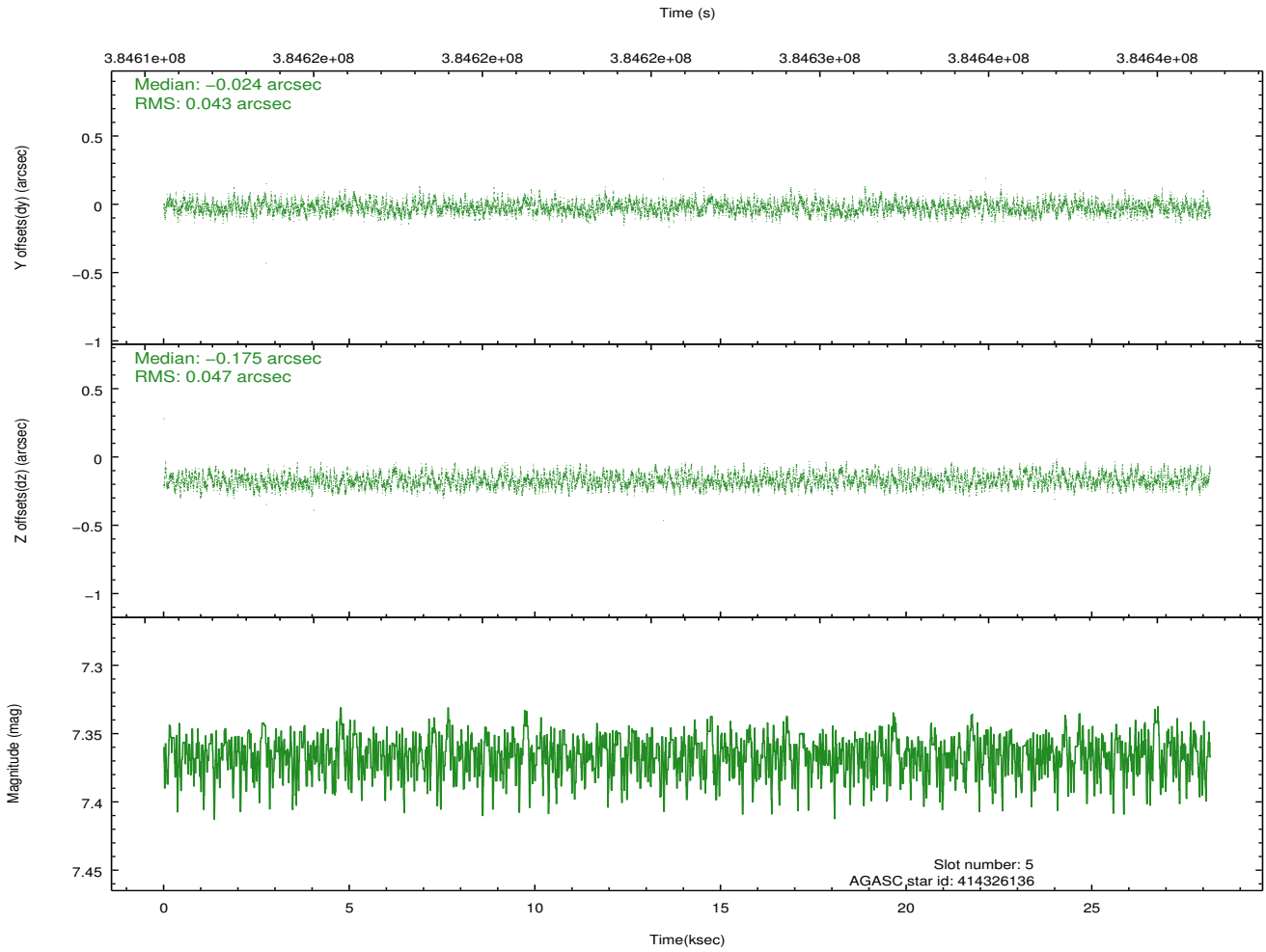
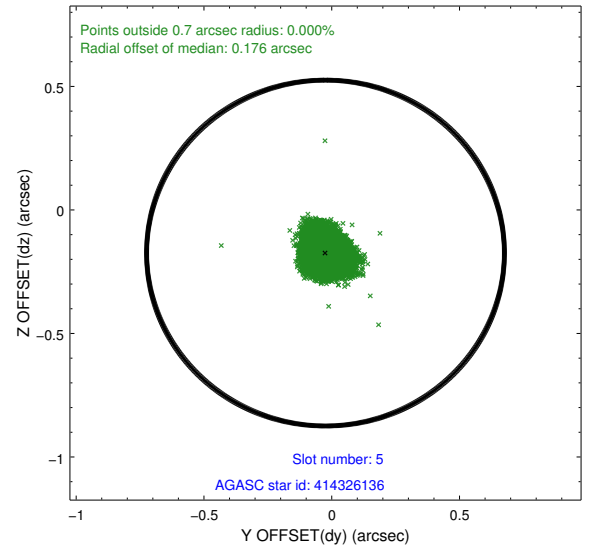
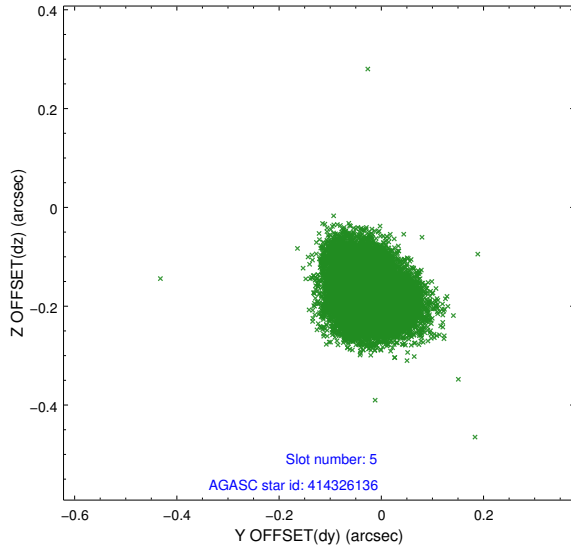
2.4.1 Slot 3



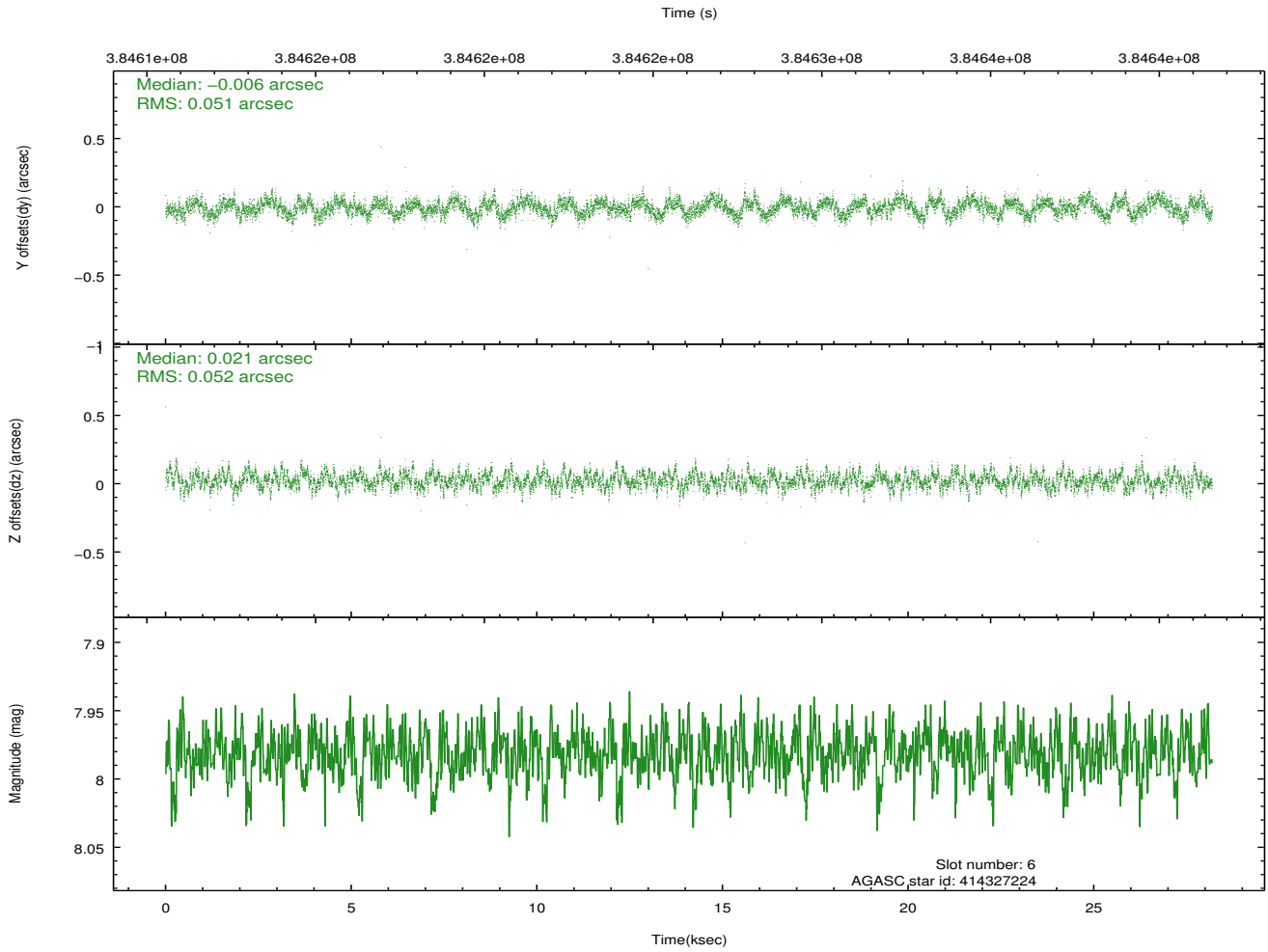
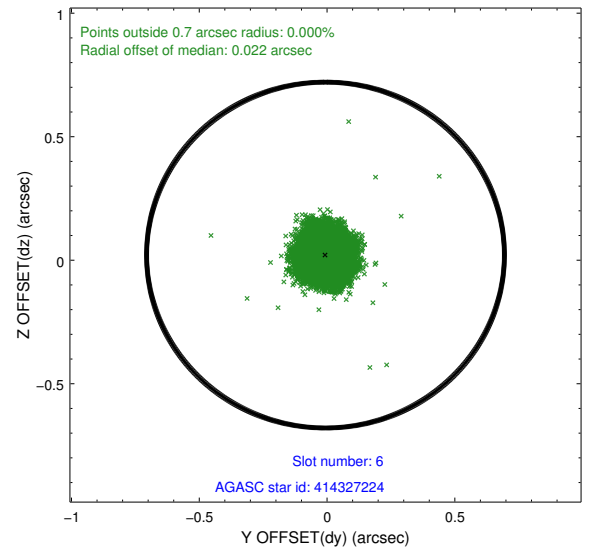
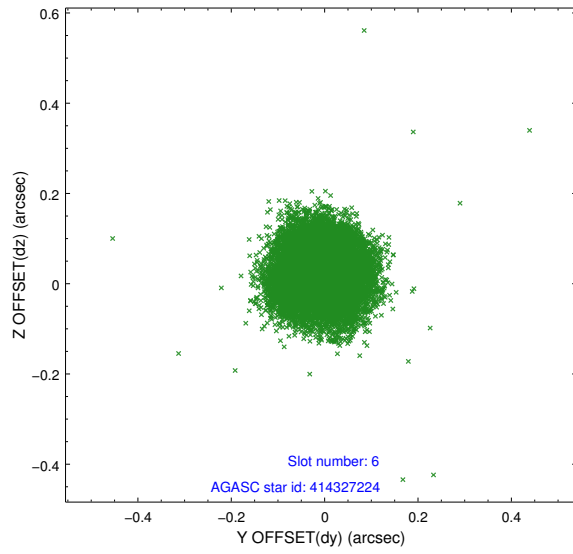
2.4.2 Slot 4



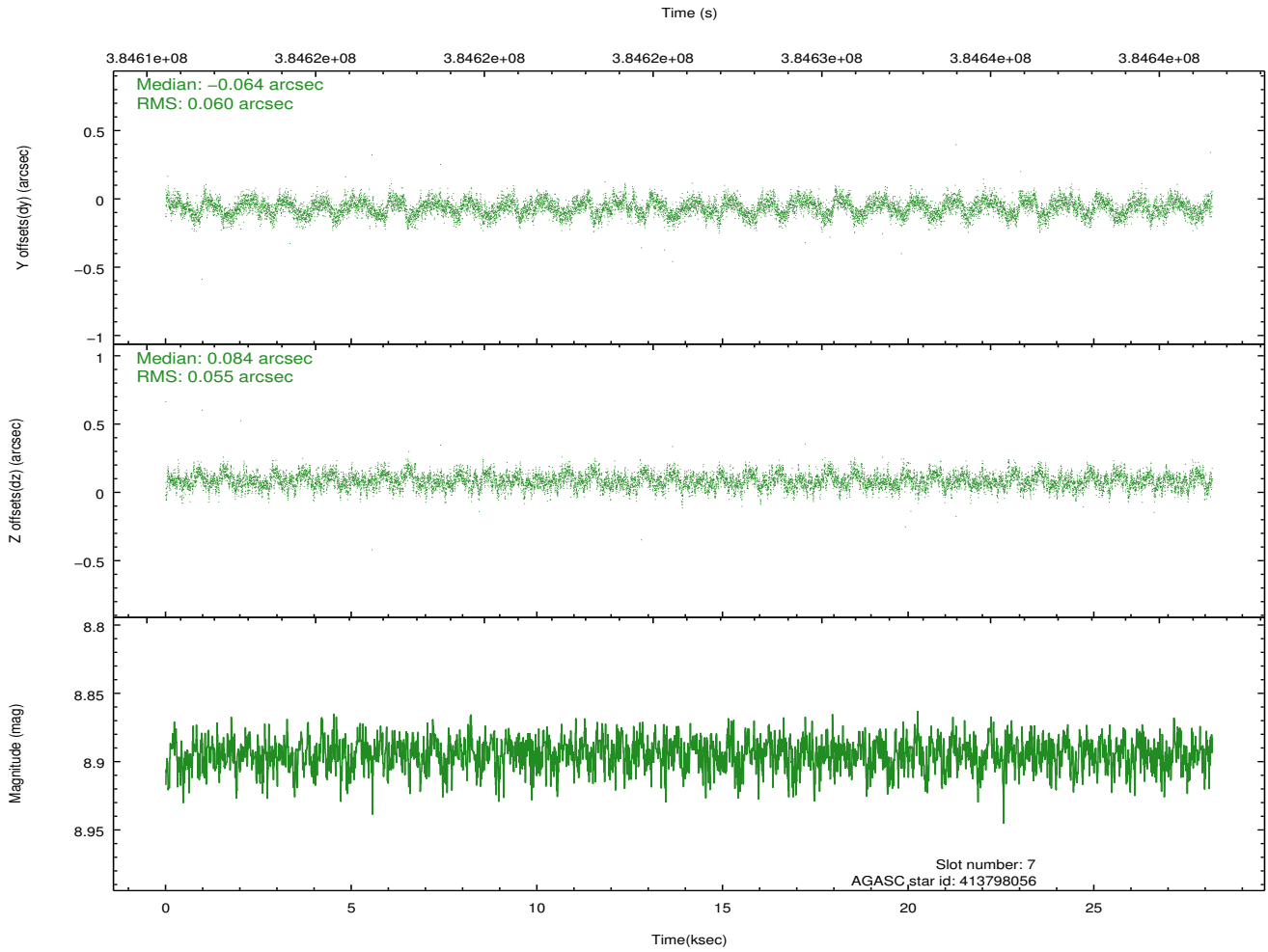
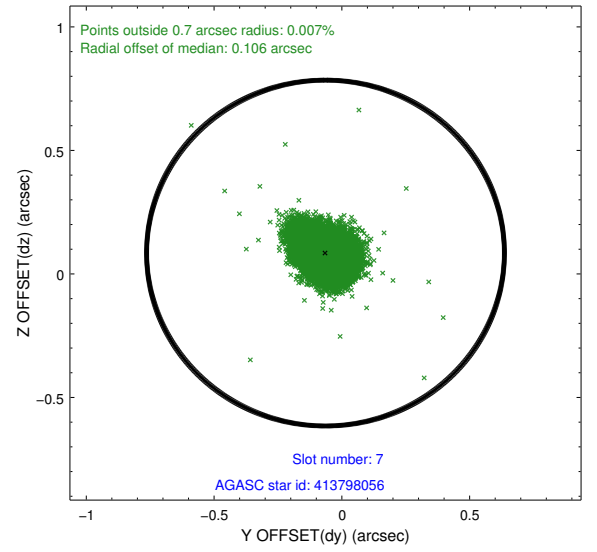
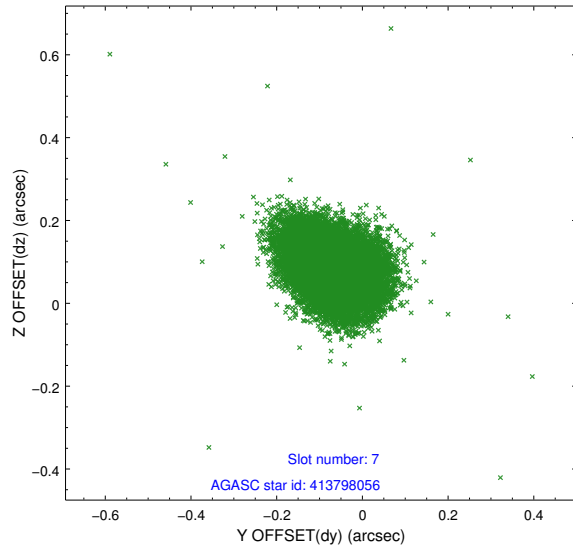
2.4.3 Slot 5



2.4.4 Slot 6

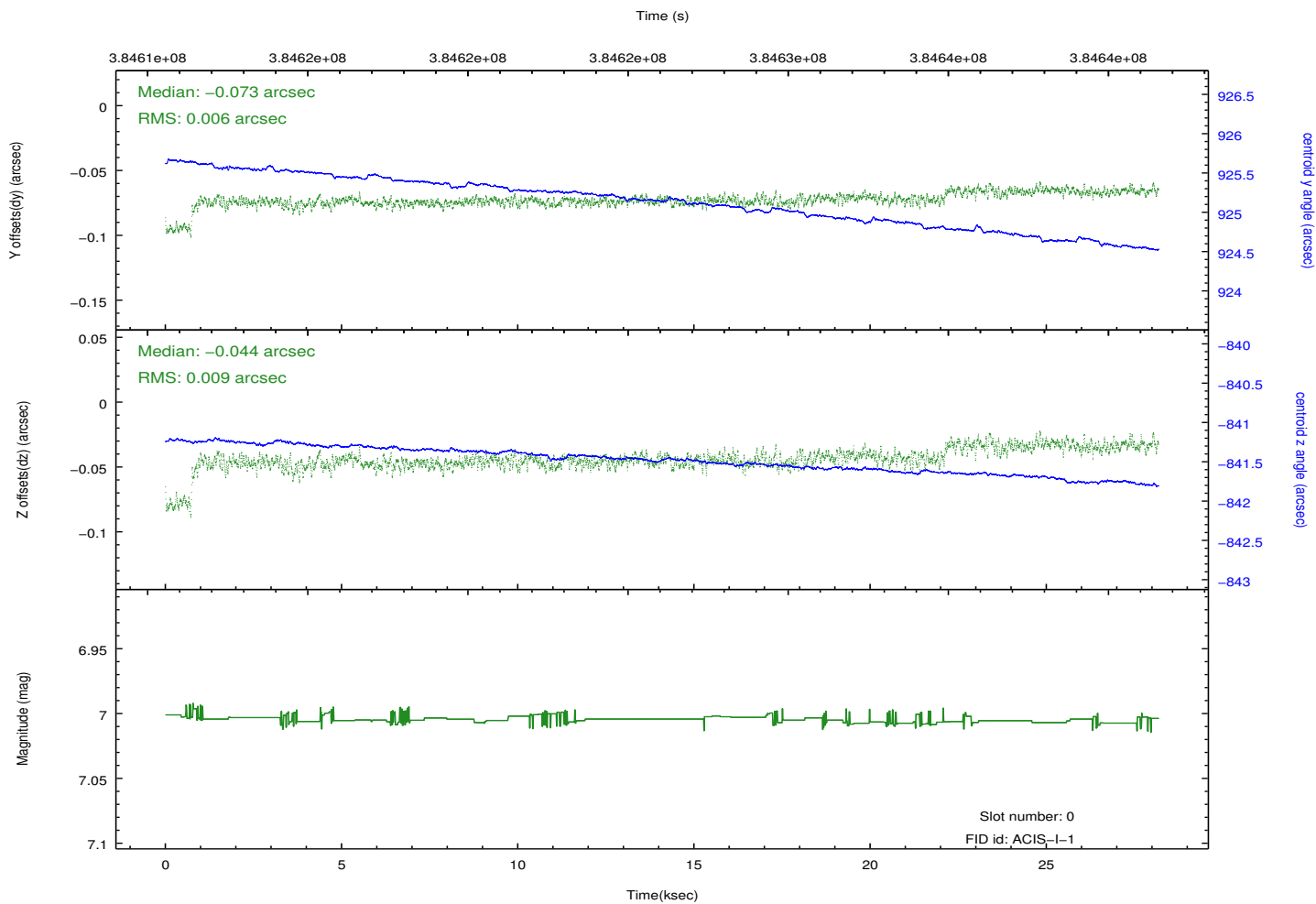
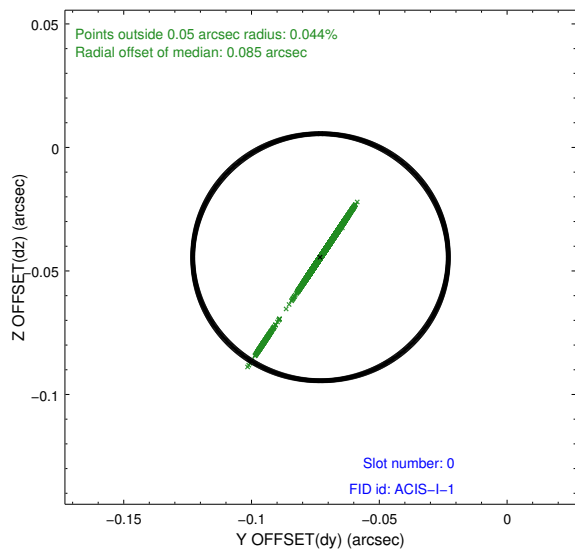
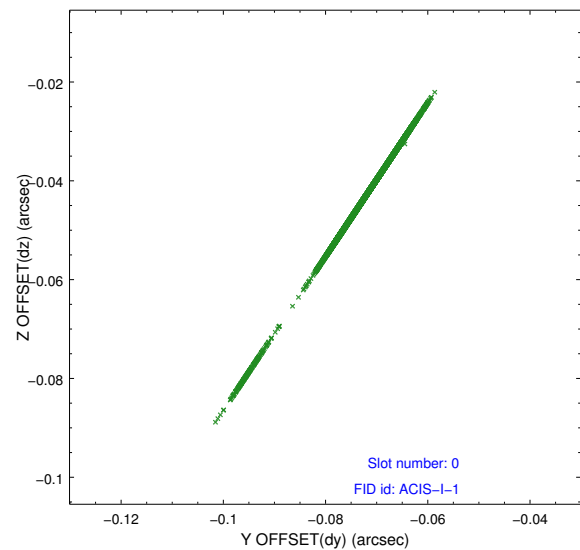


2.4.5 Slot 7

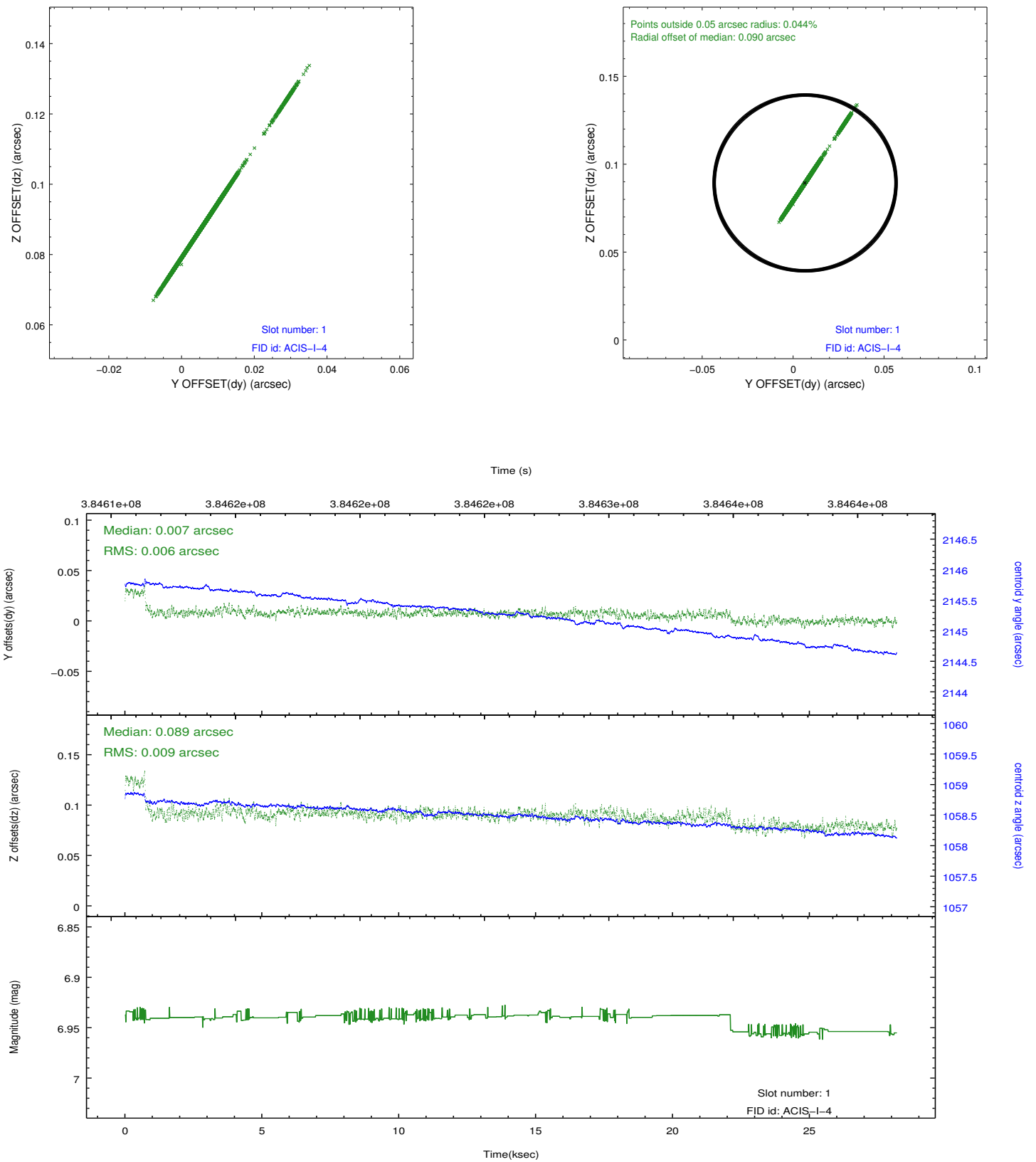


2.5 FID Slots

2.5.1 Slot 0



2.5.2 Slot 1



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.06.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	27.756799896657

A.2 Comments

The fid light in slot 2 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this fid light from the solution.

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Roll preference met.