

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 10961 - L2 Version 2
Chandra X-Ray Center

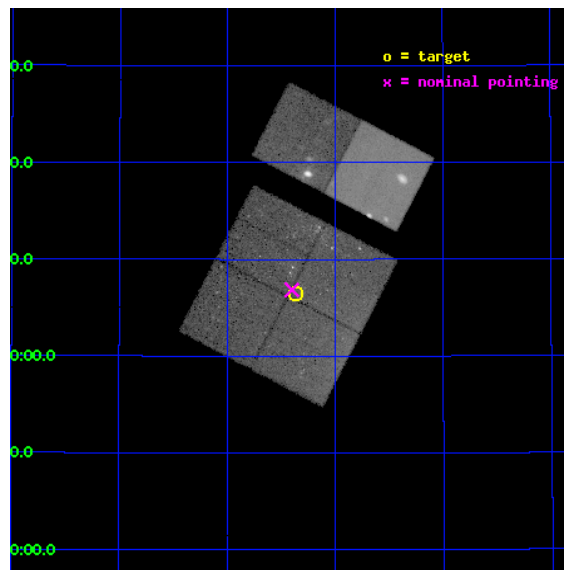
L2 Processing Date : Jun 21 2012

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1 Front

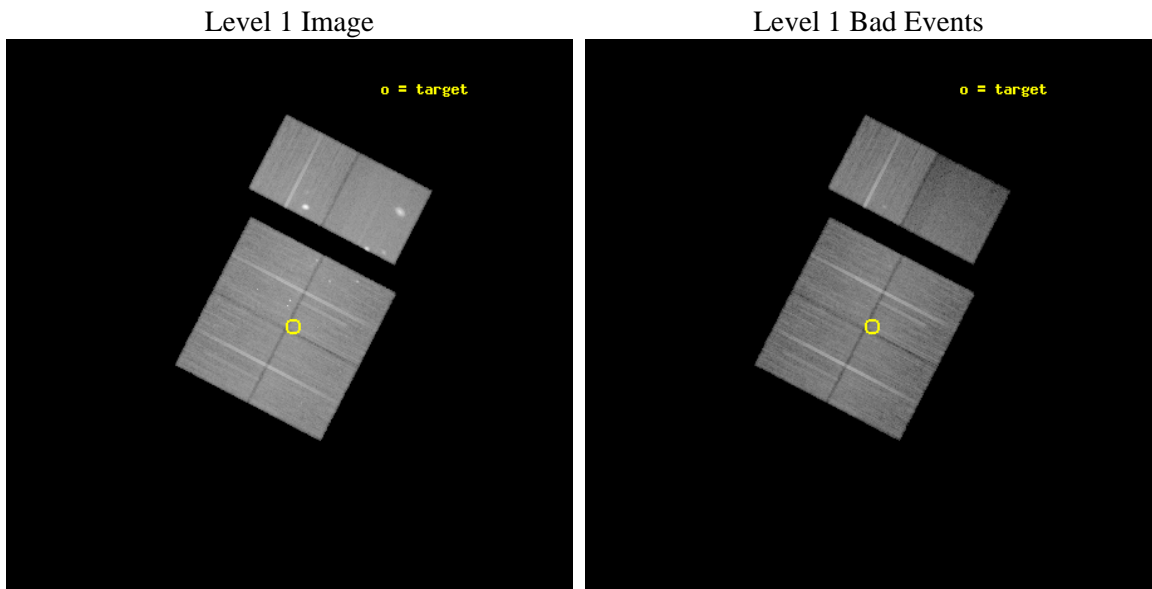
seq_num	200593	Sequence number
obs_id	10961	Observation id
title	The Chandra Cygnus OB2 Survey	Proposal title
observer	Dr. Jeremy Drake	Principal investigator
object	Cygnus OB2	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	308.342773	Observer's specified target RA [deg]
dec_targ	41.108644	Observer's specified target Dec [deg]
ra_nom	308.35039324327	Nominal RA [deg]
dec_nom	41.114334375117	Nominal Dec [deg]
roll_nom	27.403672602837	Nominal Roll [deg]
revision	2	Processing version of data
ontime	30156.717927098	Sum of GTIs [s]
livetime	29774.85540651	Livetime [s]
ontime0	30163.199887693	Sum of GTIs [s]
ontime1	30163.199887693	Sum of GTIs [s]
ontime2	30156.717927217	Sum of GTIs [s]
ontime3	30156.717927098	Sum of GTIs [s]
ontime6	30159.958917379	Sum of GTIs [s]
ontime7	30163.199887693	Sum of GTIs [s]
l2events	309465	Number of level 2 events



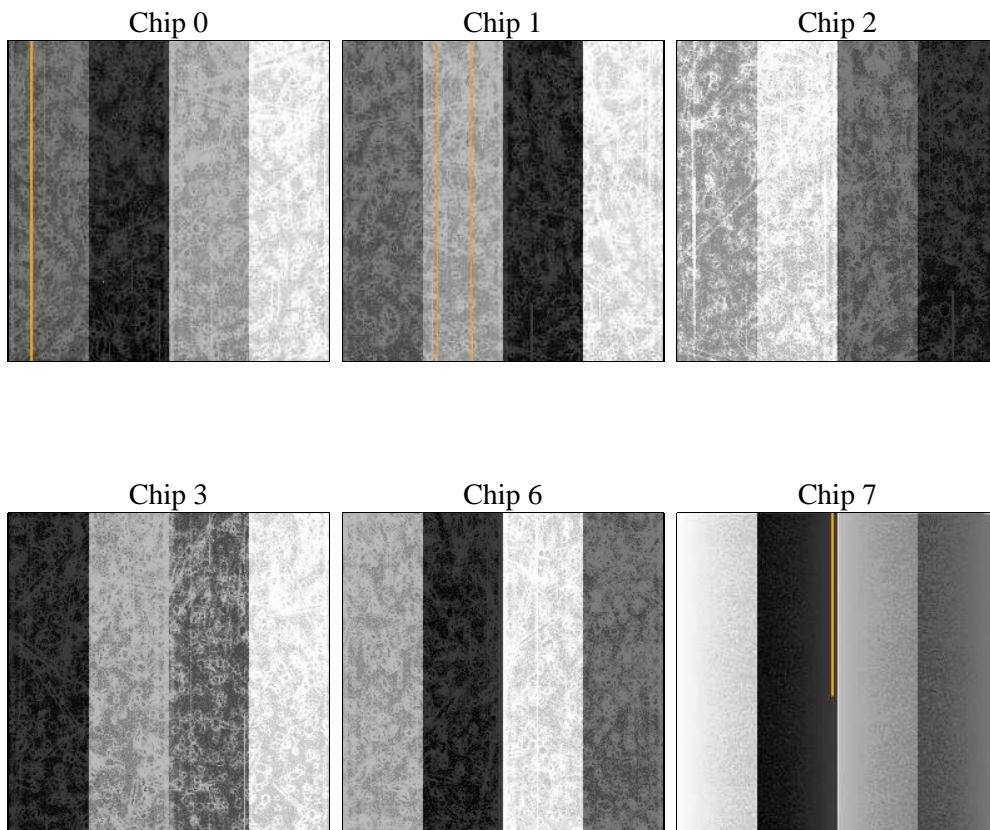
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	30000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	30156.717927098	Sum of GTIs [s]
caldbver	4.4.10	 	ontime0	30163.199887693	Sum of GTIs [s]
date	2012-06-21T17:15:11	Date and time of file creation	ontime1	30163.199887693	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	30156.717927217	Sum of GTIs [s]
			ontime3	30156.717927098	Sum of GTIs [s]
			ontime6	30159.958917379	Sum of GTIs [s]
			ontime7	30163.199887693	Sum of GTIs [s]
			l1events	1513002	Number of level 1 events

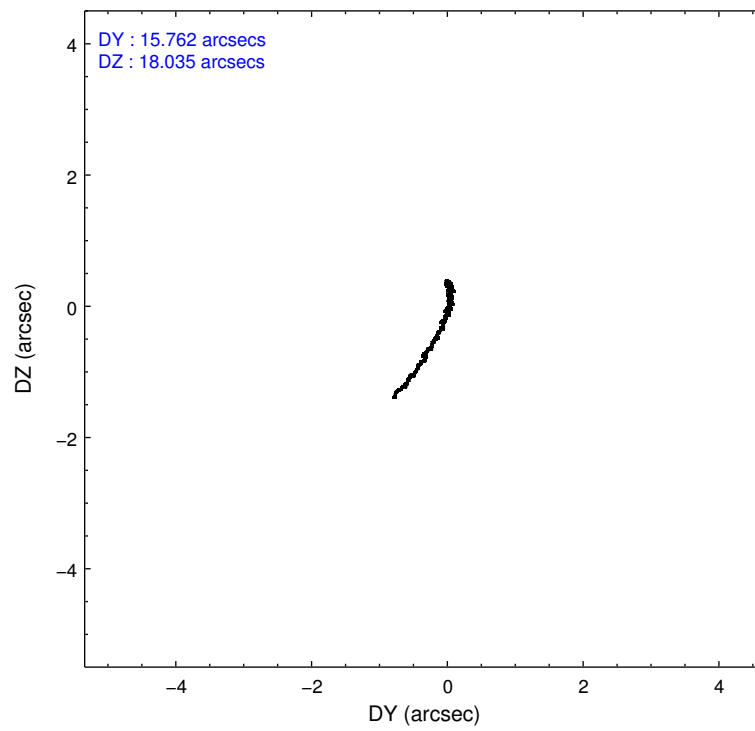
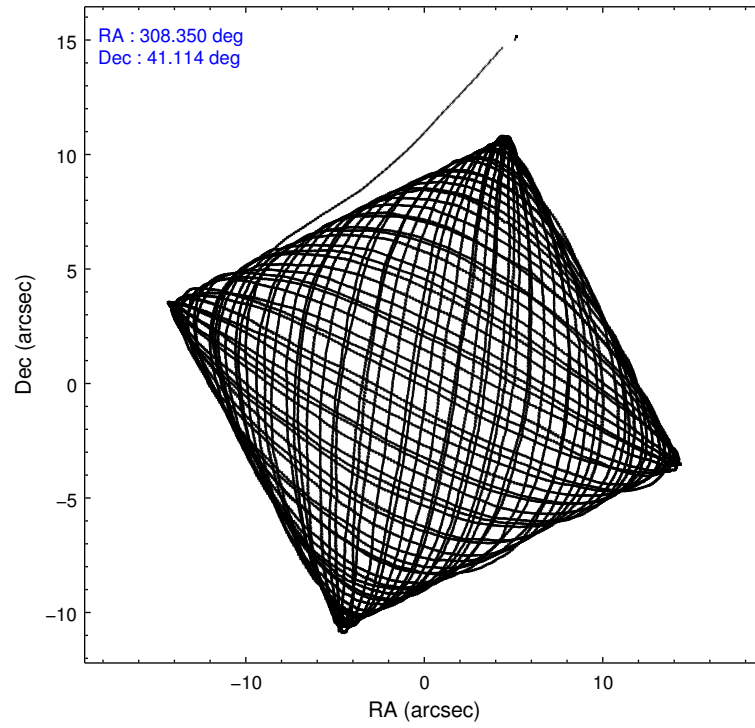
2.1.4 Events

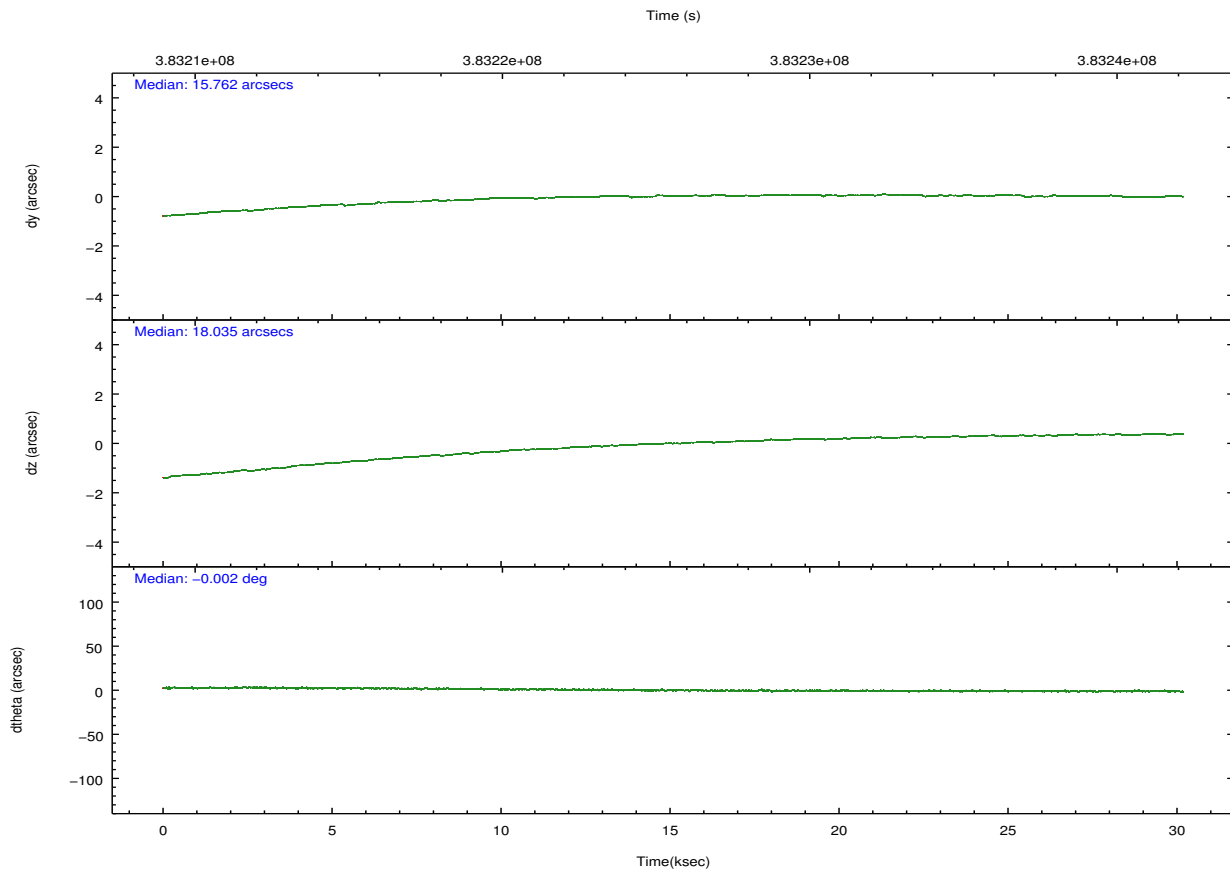
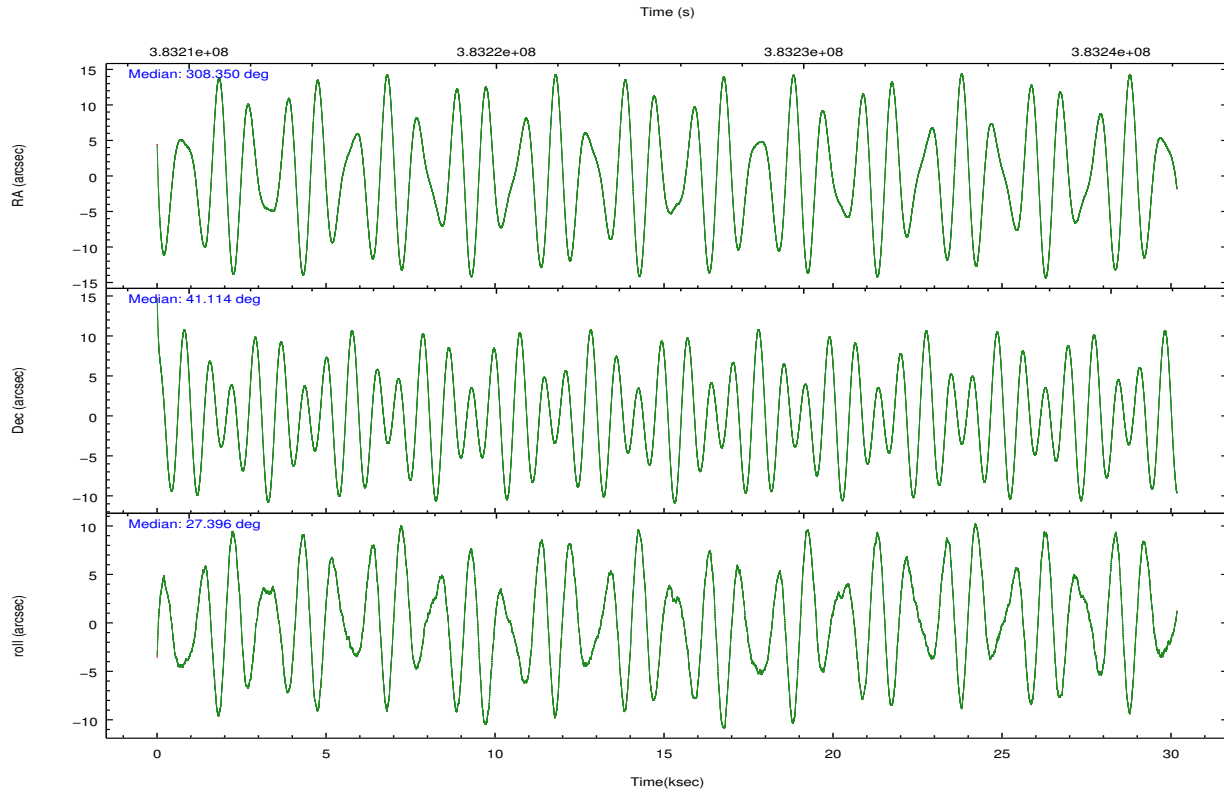
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	225606	242920	254557	250151	272249	267519	grade 0 events	12541	22878	18386	20711	30766	19336
rejected events	196638	199360	219550	211819	221603	125953		5%	9%	7%	8%	11%	7%
rejected %	87%	82%	86%	84%	81%	47%	grade 1 events	142	210	258	240	321	405
								0%	0%	0%	0%	0%	0%
							grade 2 events	6902	8390	7072	7102	8549	32627
								3%	3%	2%	2%	3%	12%
							grade 3 events	2937	3569	2837	3233	3330	14292
								1%	1%	1%	1%	1%	5%
							grade 4 events	2788	3704	2987	3173	3375	14110
								1%	1%	1%	1%	1%	5%
							grade 5 events	7725	8235	7349	8759	9163	26052
								3%	3%	2%	3%	3%	9%
							grade 6 events	4827	6177	4705	5098	5761	65935
								2%	2%	1%	2%	2%	24%
							grade 7 events	187744	189757	210963	201835	210984	94762
								83%	78%	82%	80%	77%	35%

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	308.330862	308.3503932432745	CCD I2 on	Y	Y
[deg] Pointing Dec	41.091096	41.1143343751171	CCD I3 on	Y	Y
[deg] Pointing Roll	27.207825	27.40367260283684	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	-233.592463	-233.5874344608287	CCD S3 on	O2	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	383210639.184000	383208970.46545	CCD S5 on	N	N
Observation start date	2010-02-22T07:22:53	2010-02-22T06:56:10	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	383240639.184000	383240773.14207	On-chip summing requested	N	N
Observation end date	2010-02-22T15:42:53	2010-02-22T15:46:13	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



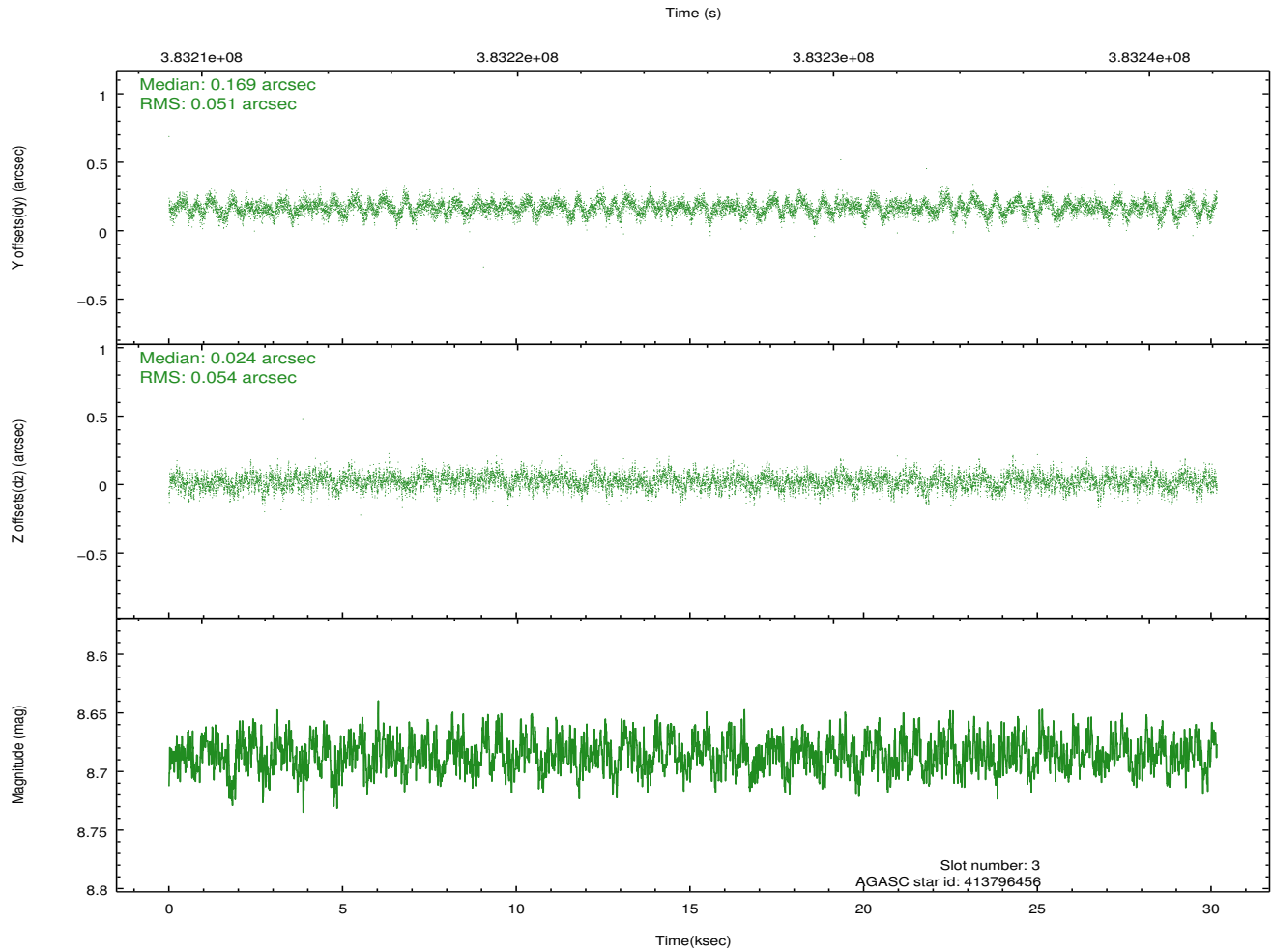
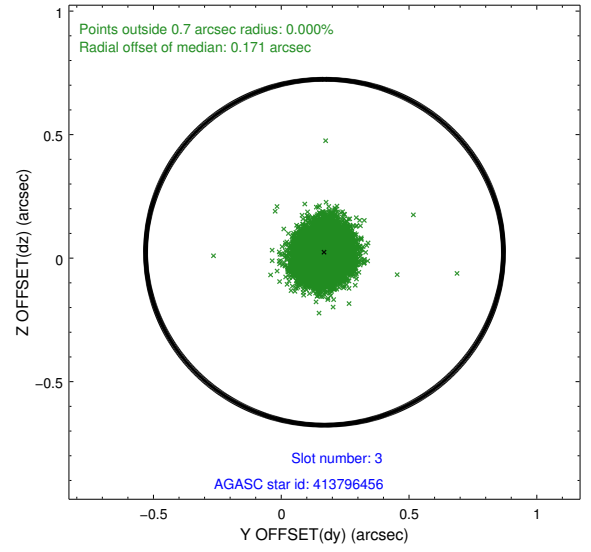
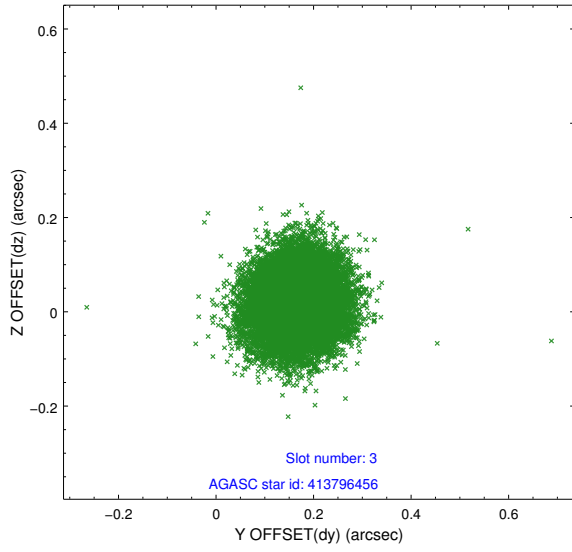


Slot Statistics

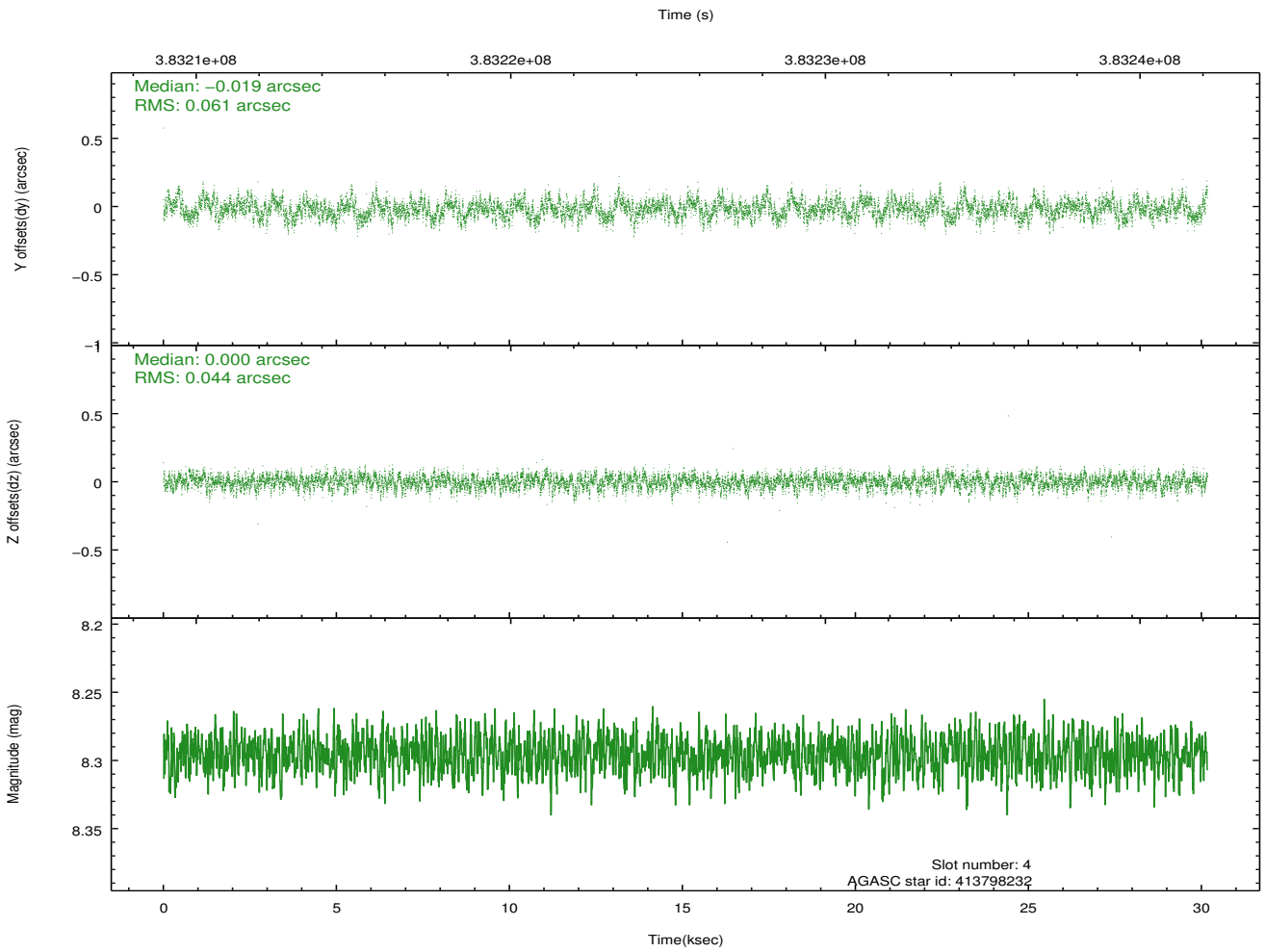
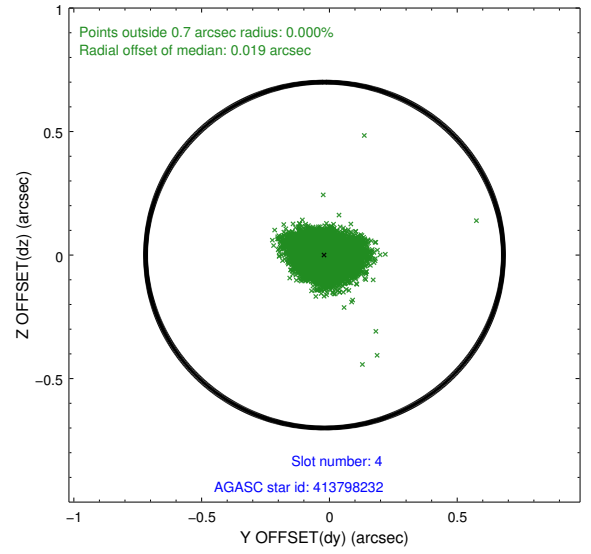
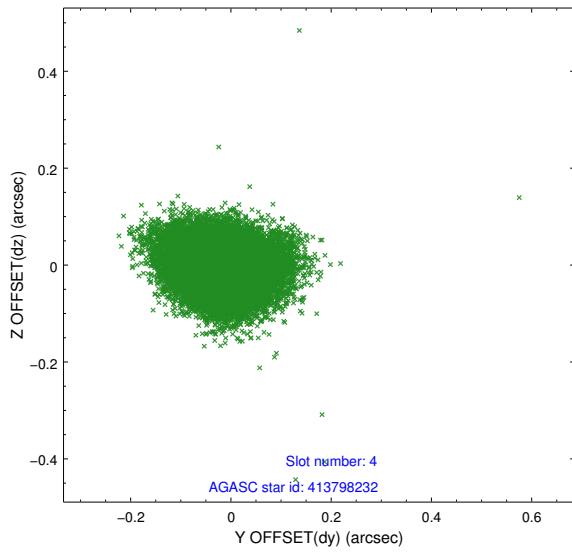
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.00	7360	0.039	0.016	0.018	0.059	0.000000	0.000000	923.82	-841.53
1	FID	ACIS-I-5	6.99	7360	-0.201	0.052	0.011	0.024	0.000000	0.000000	-1824.47	1055.99
2	FID	ACIS-I-6	7.00	7360	0.071	0.003	0.013	0.035	0.000000	0.000000	389.34	1700.51
3	GUIDE	413796456	8.69	14714	0.169	0.024	0.079	0.127	308.312084	40.613132	-831.80	-1506.77
4	GUIDE	413798232	8.30	14715	-0.019	0.000	0.079	0.129	309.116117	41.044272	1823.56	-1116.14
5	GUIDE	414326136	7.35	14715	-0.209	-0.137	0.070	0.110	308.256176	41.473642	450.81	1317.19
6	GUIDE	414329112	9.21	14696	0.110	-0.045	0.115	0.179	307.717084	41.328937	-1081.36	1525.39
7	GUIDE	413802872	9.32	14698	-0.055	0.153	0.110	0.182	308.231239	40.487807	-1234.58	-1806.09

2.4 Star Slots

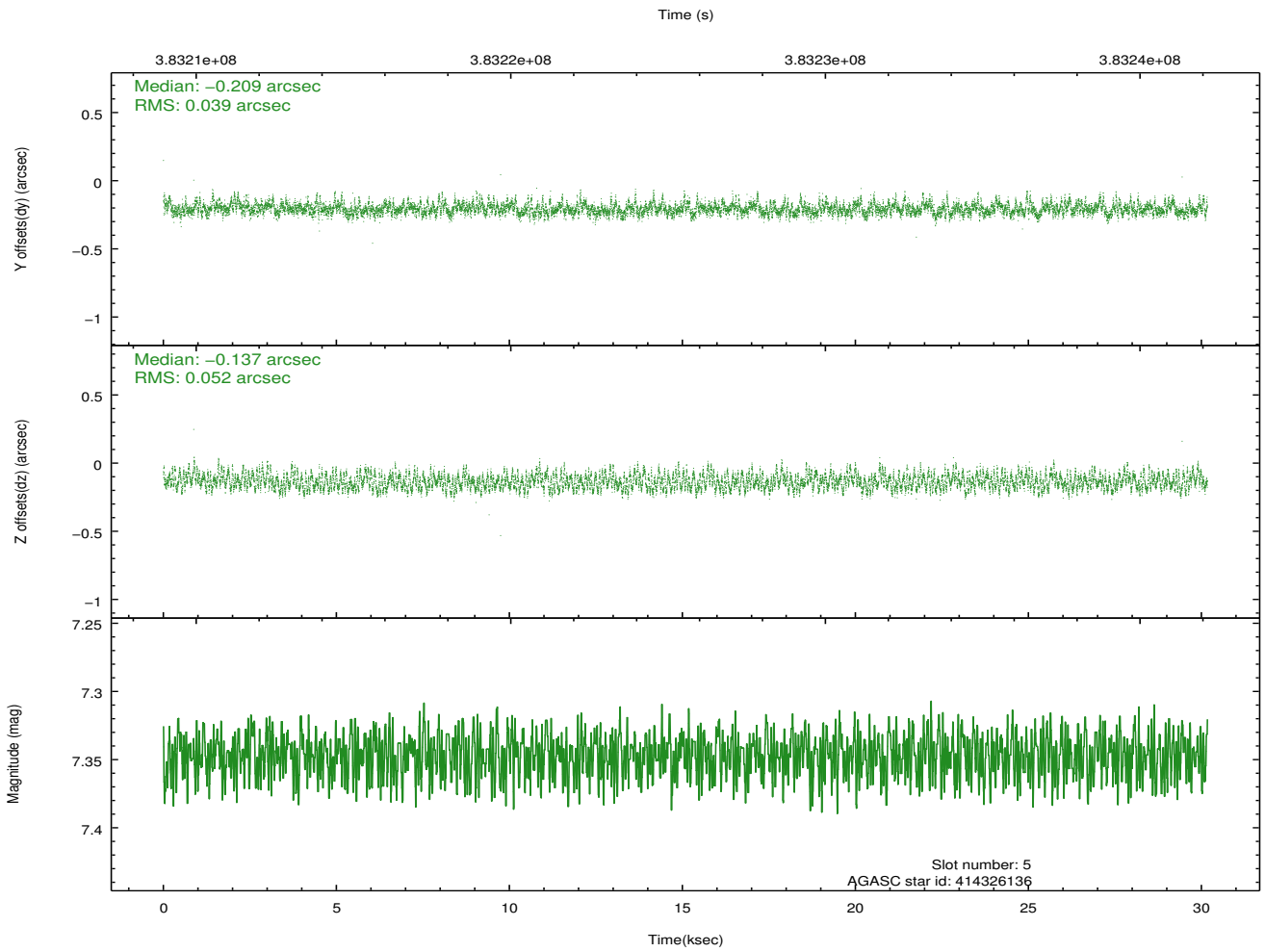
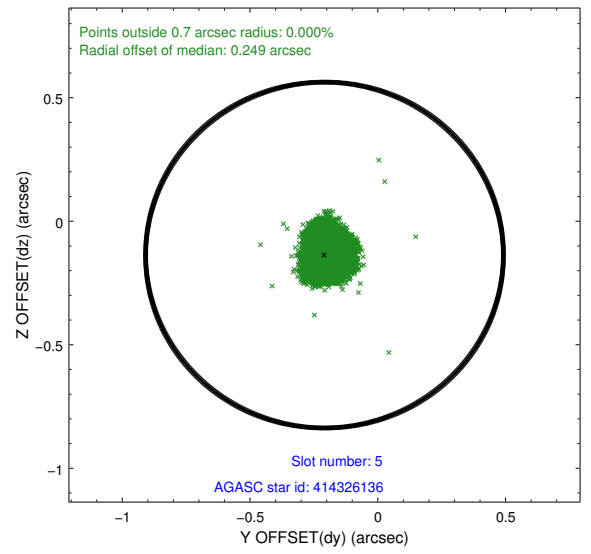
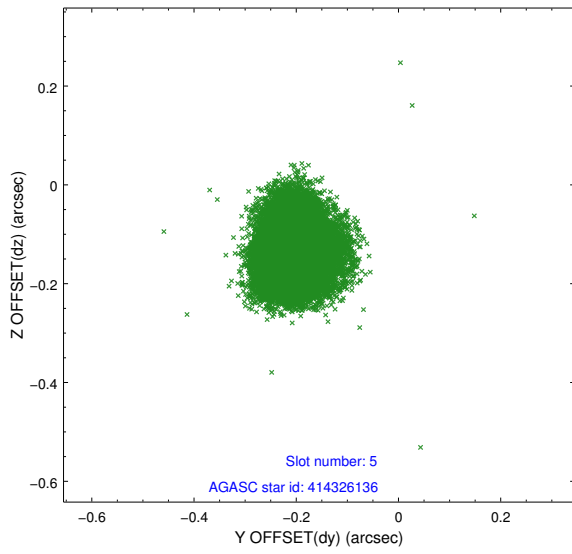
2.4.1 Slot 3



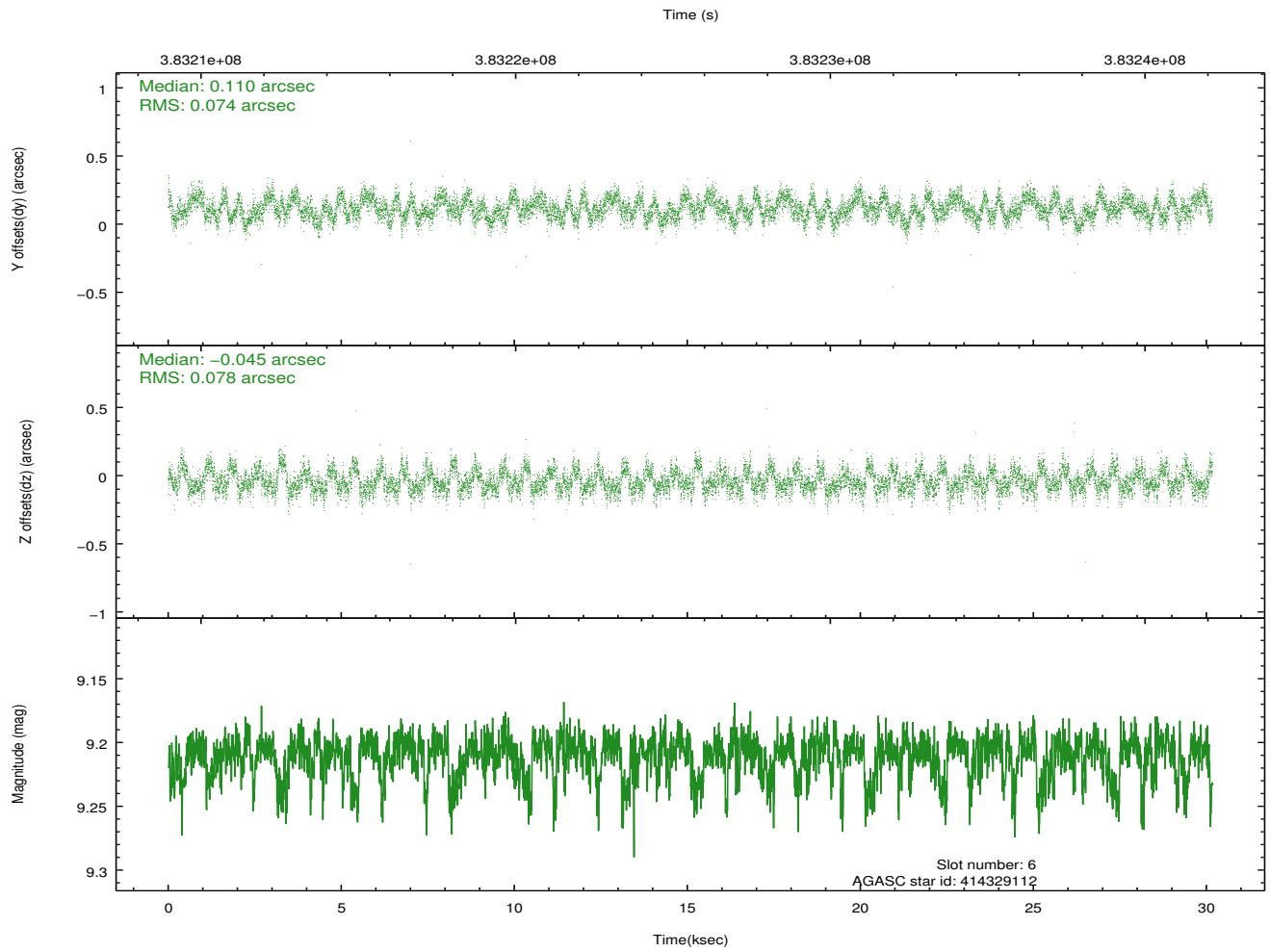
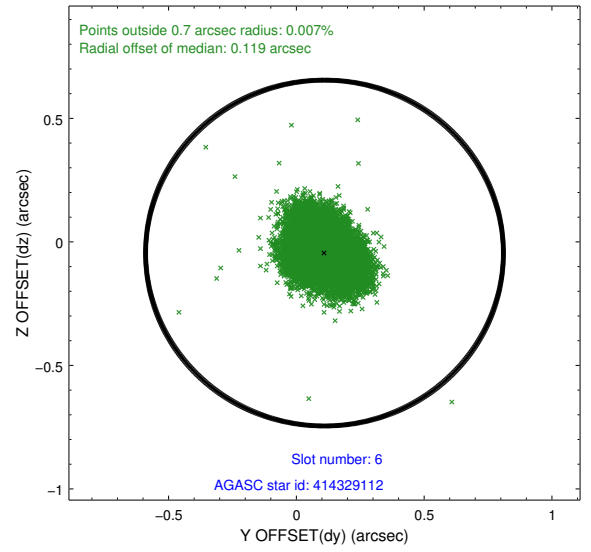
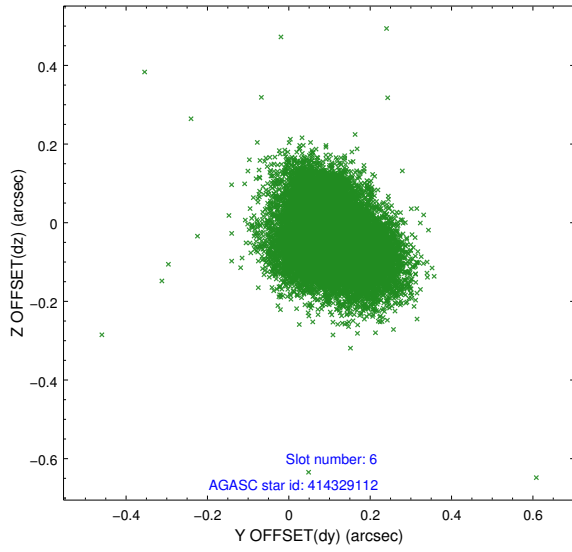
2.4.2 Slot 4



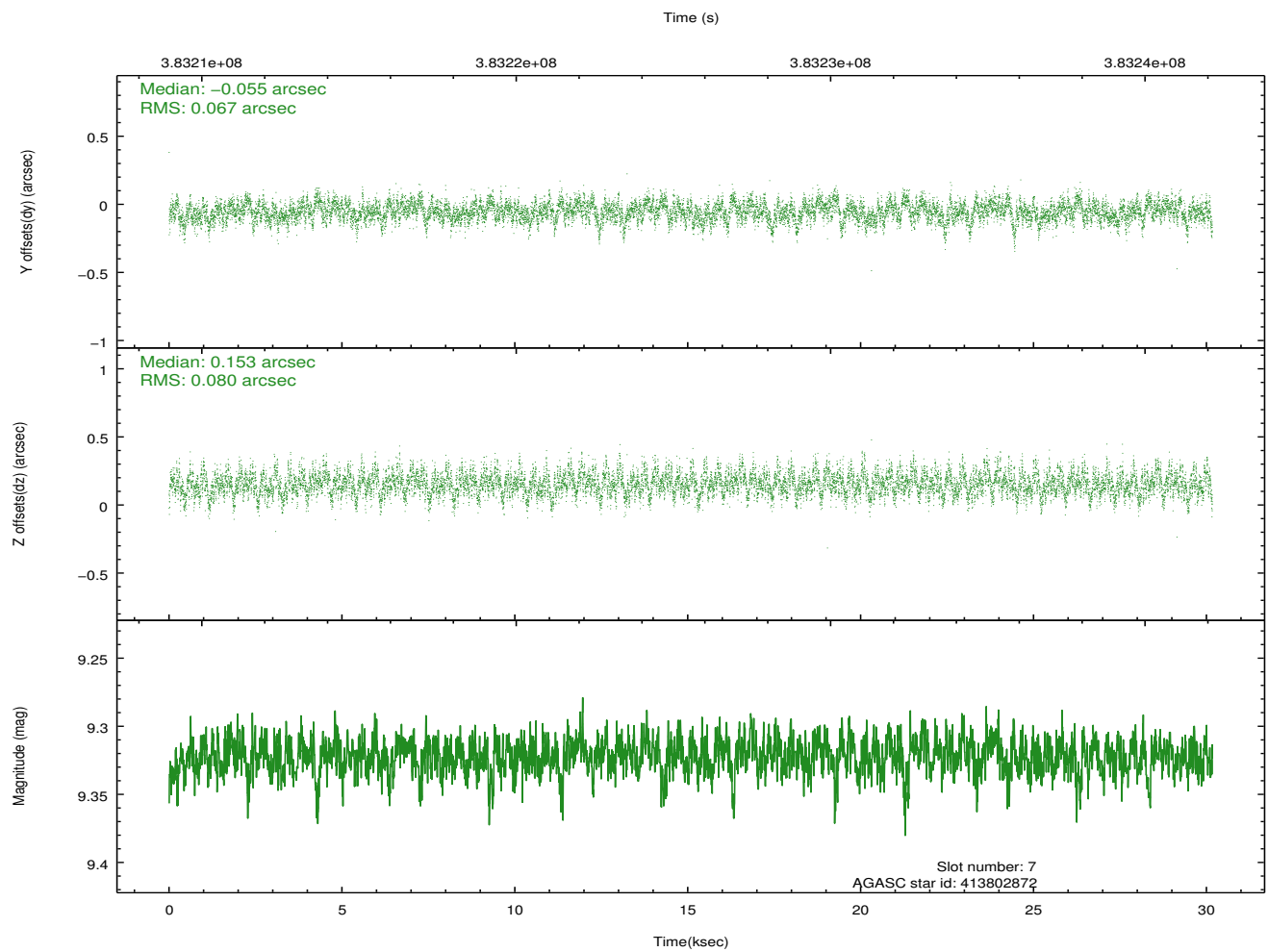
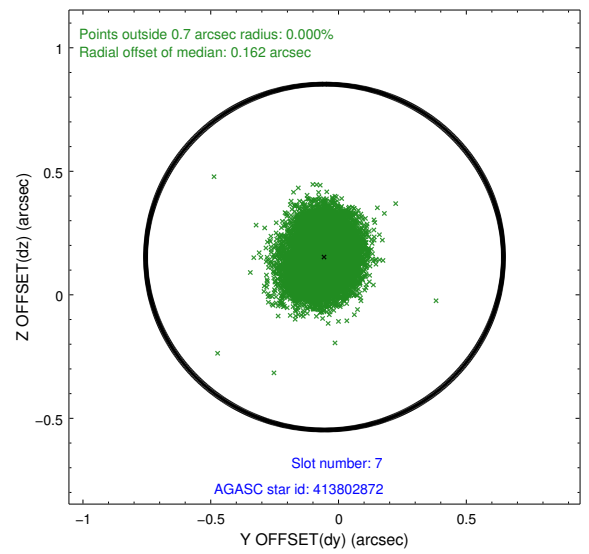
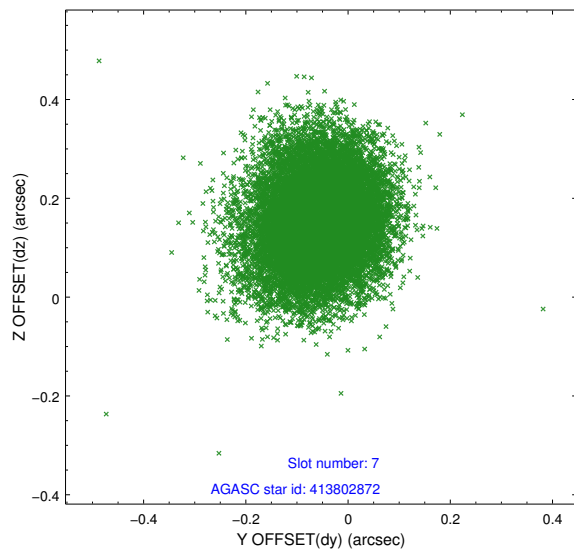
2.4.3 Slot 5



2.4.4 Slot 6

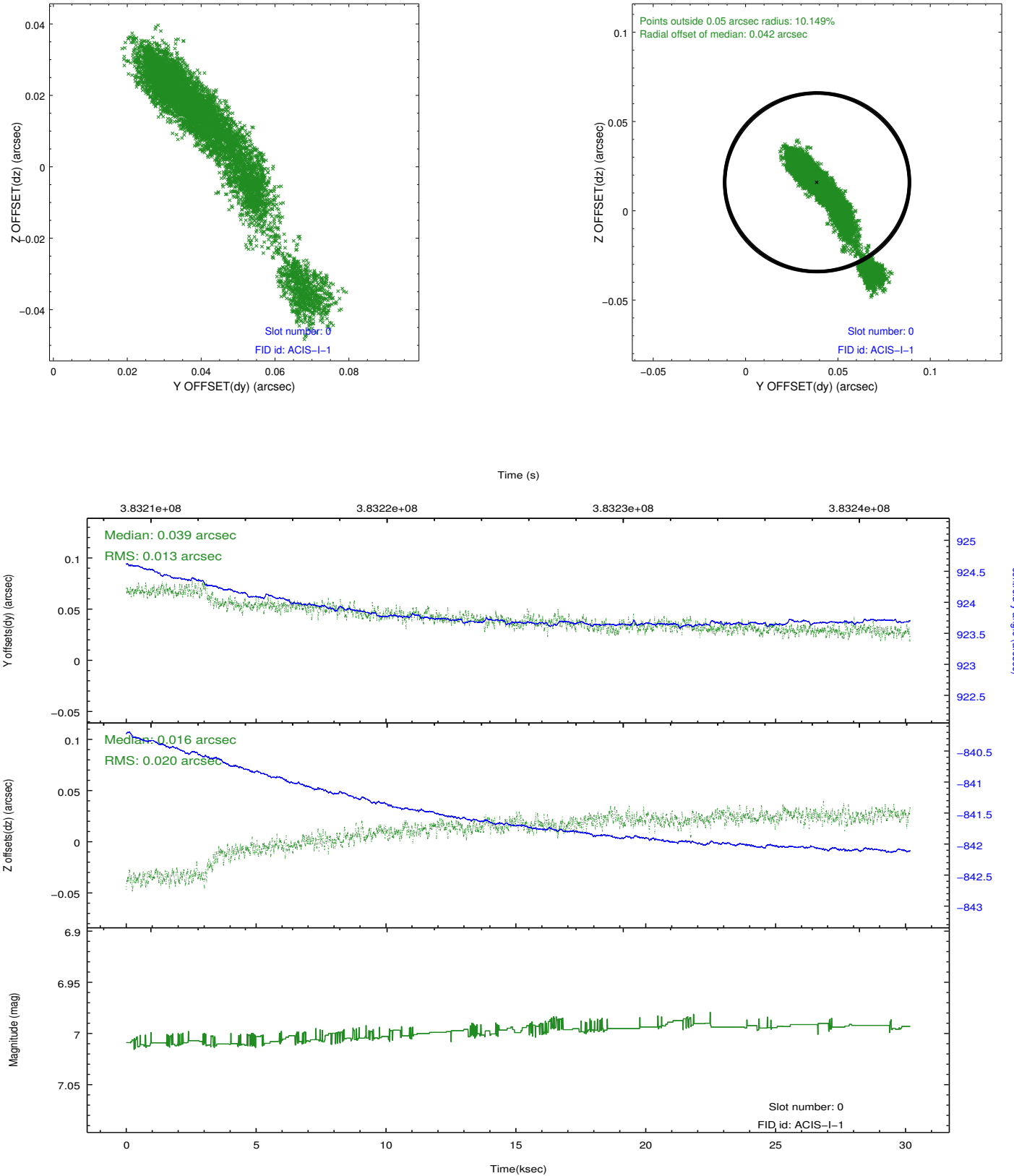


2.4.5 Slot 7

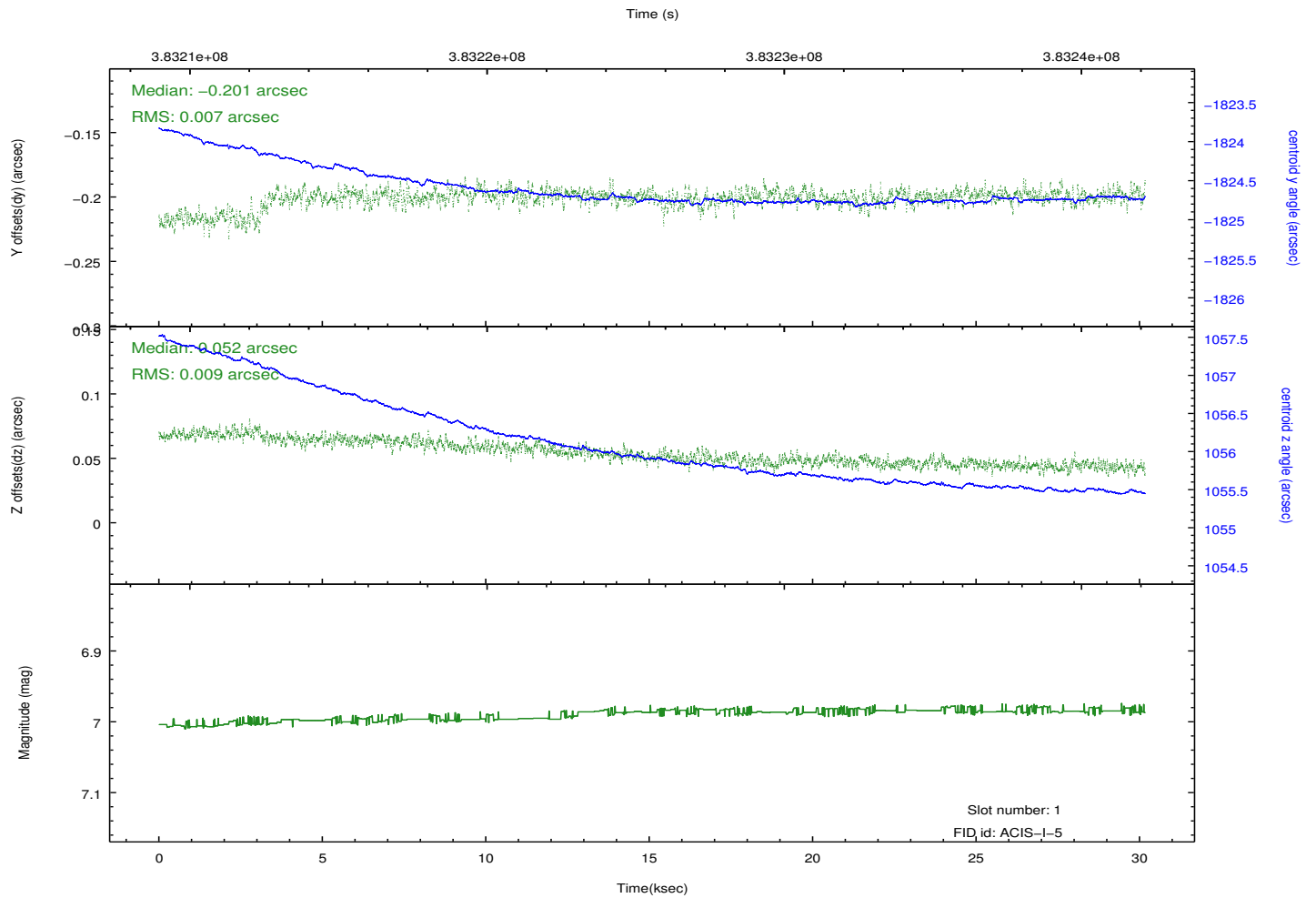
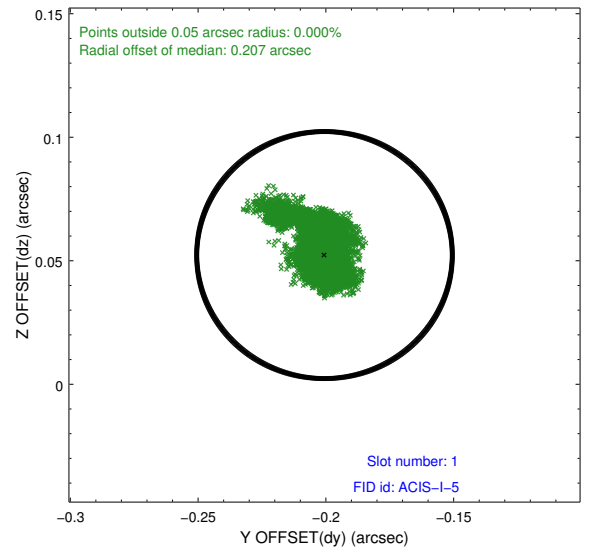
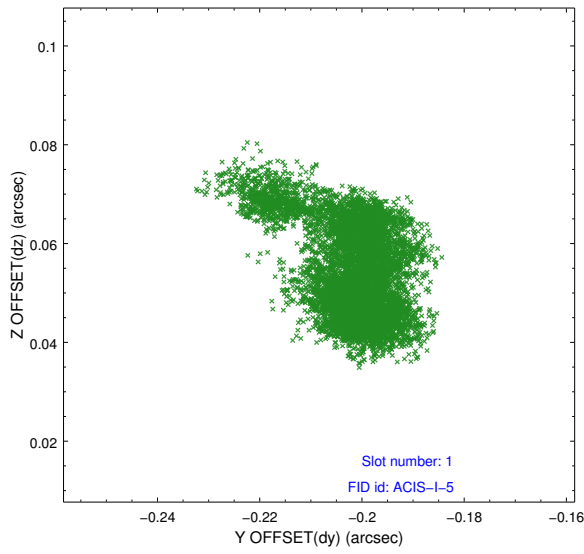


2.5 FID Slots

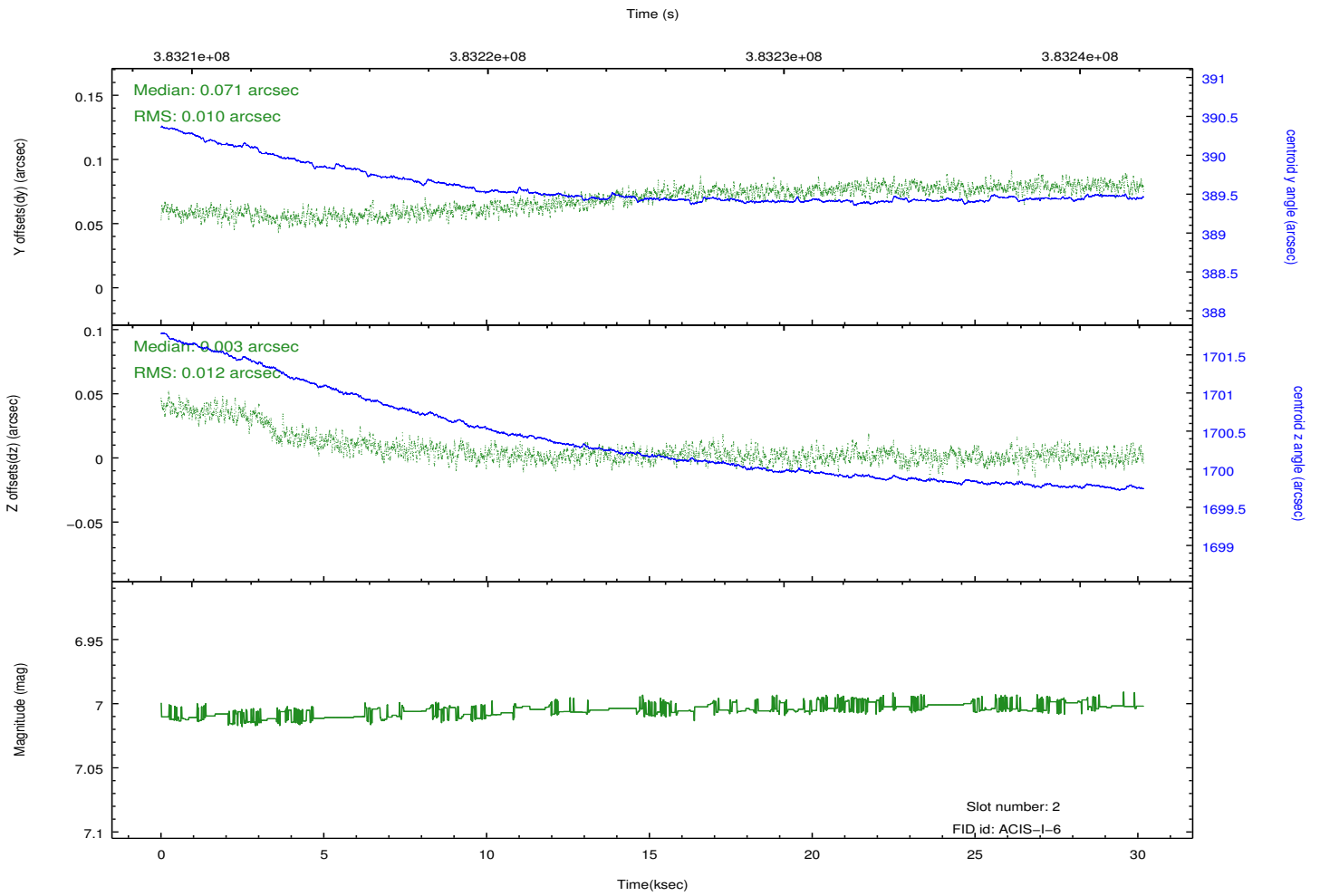
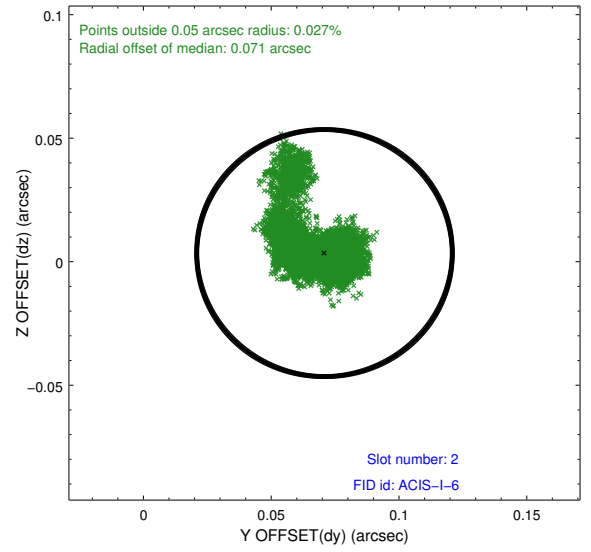
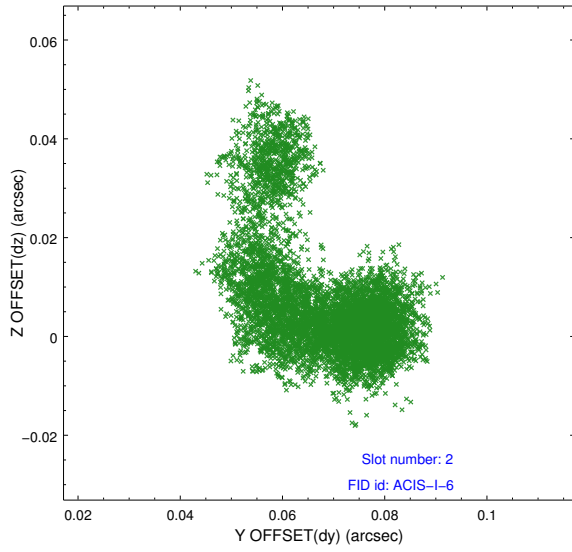
2.5.1 Slot 0



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)	2012.06.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.156717927158

A.2 Comments

Roll preference met.