

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 10940 - L2 Version 2
Chandra X-Ray Center

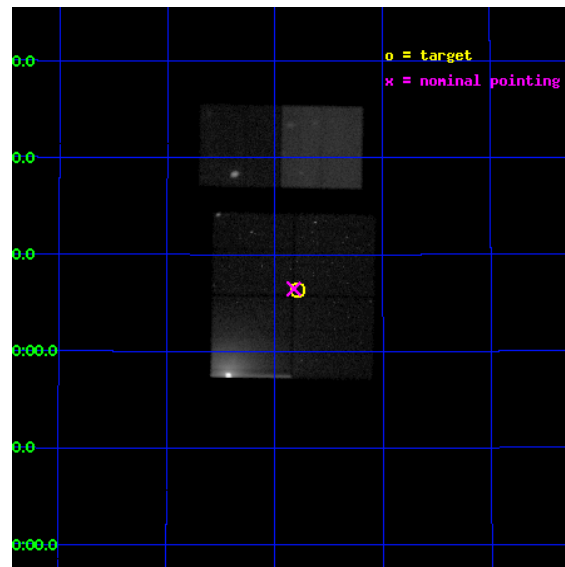
L2 Processing Date : Jun 20 2012

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1 Front

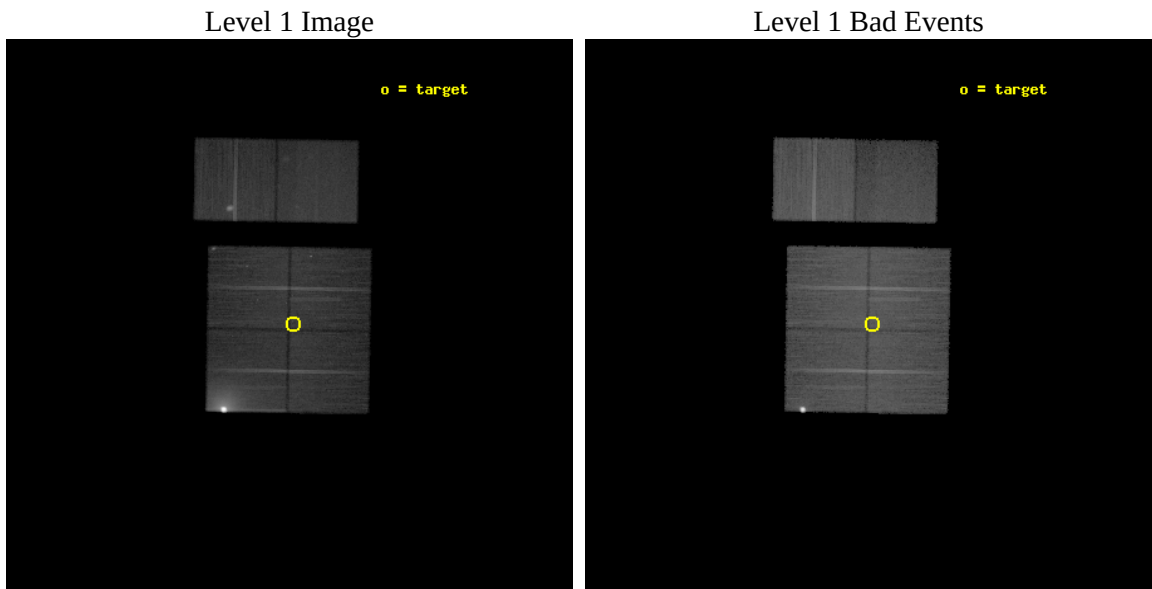
seq_num	200572	Sequence number
obs_id	10940	Observation id
title	The Chandra Cygnus OB2 Survey	Proposal title
observer	Dr. Jeremy Drake	Principal investigator
object	Cygnus OB2	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	307.945839	Observer's specified target RA [deg]
dec_targ	41.10534	Observer's specified target Dec [deg]
ra_nom	307.95603521396	Nominal RA [deg]
dec_nom	41.107882065876	Nominal Dec [deg]
roll_nom	0.99549497471523	Nominal Roll [deg]
revision	2	Processing version of data
ontime	28048.222480237	Sum of GTIs [s]
livetime	27693.058998581	Livetime [s]
ontime0	25738.628501952	Sum of GTIs [s]
ontime1	28430.656580985	Sum of GTIs [s]
ontime2	27425.95656836	Sum of GTIs [s]
ontime3	28048.222480237	Sum of GTIs [s]
ontime6	27779.221744239	Sum of GTIs [s]
ontime7	29043.199891865	Sum of GTIs [s]
l2events	734850	Number of level 2 events



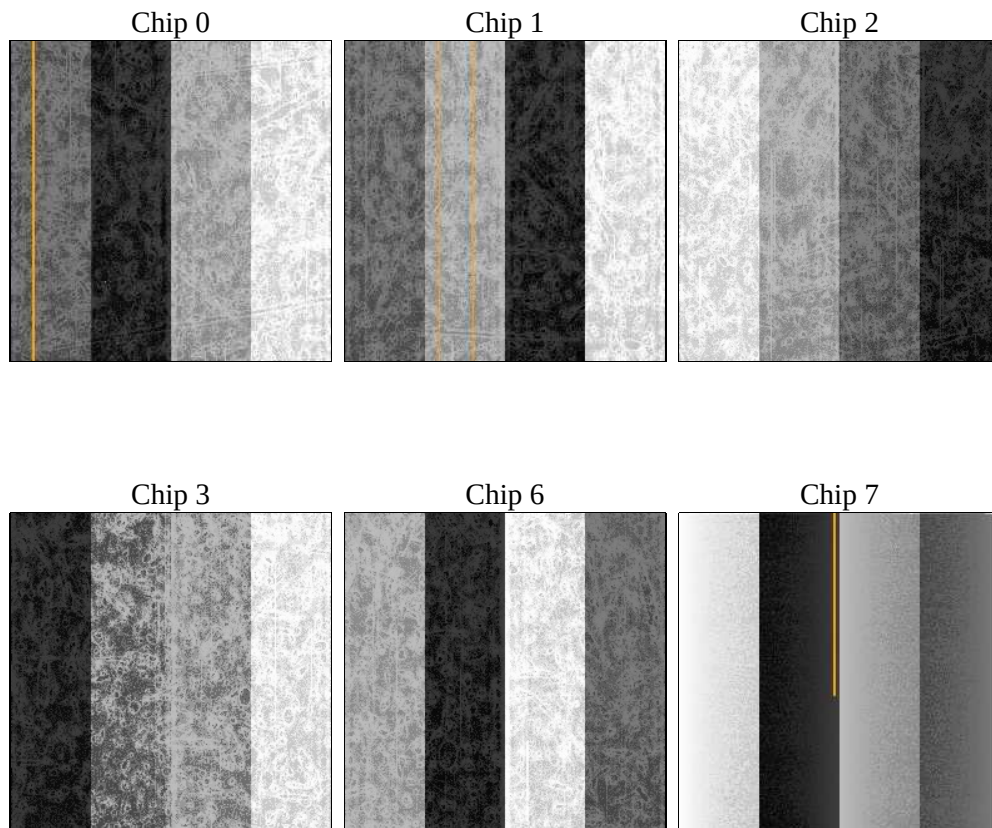
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	29000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	28048.222480237	Sum of GTIs [s]
caldsver	4.4.10	 	ontime0	25738.628501952	Sum of GTIs [s]
date	2012-06-20T21:04:21	Date and time of file creation	ontime1	28430.656580985	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	27425.95656836	Sum of GTIs [s]
			ontime3	28048.222480237	Sum of GTIs [s]
			ontime6	27779.221744239	Sum of GTIs [s]
			ontime7	29043.199891865	Sum of GTIs [s]
			l1events	2047477	Number of level 1 events

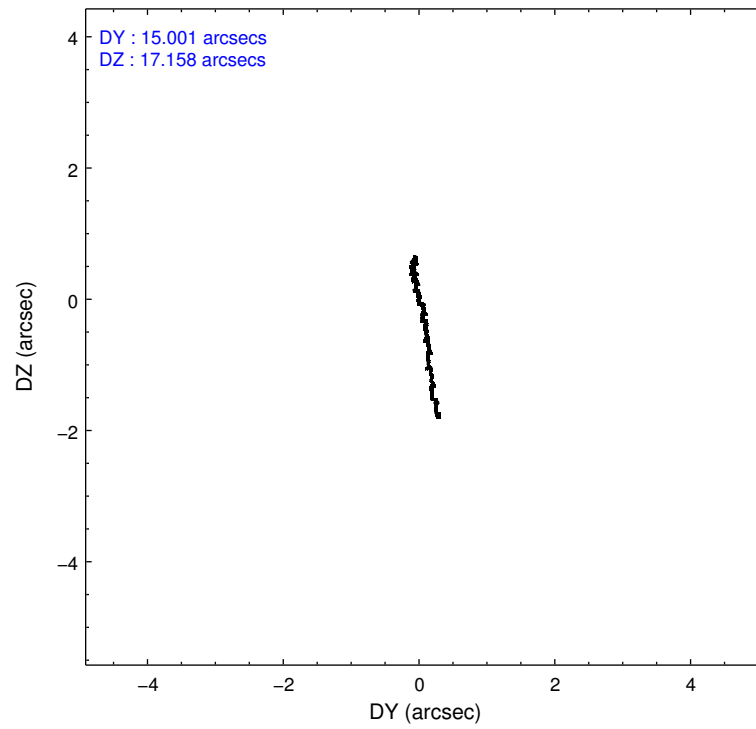
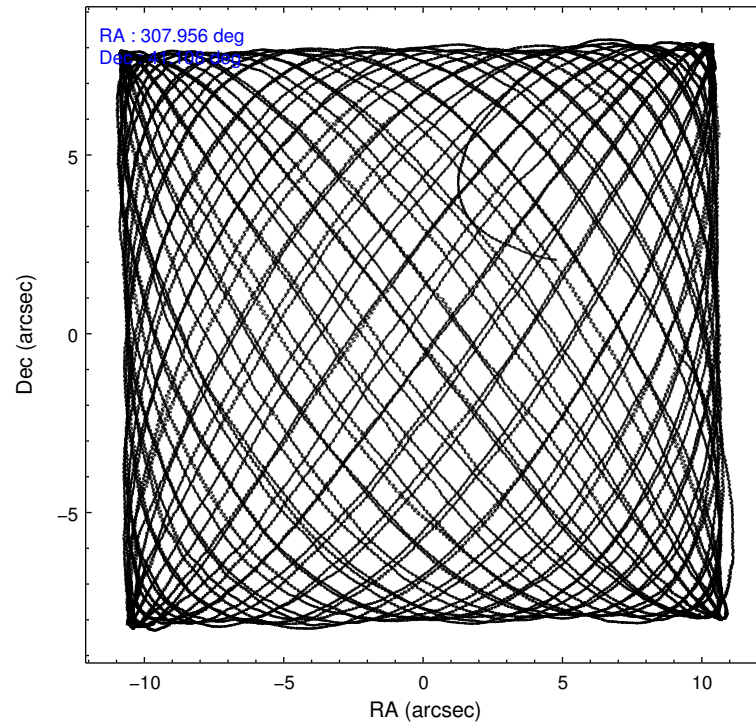
2.1.4 Events

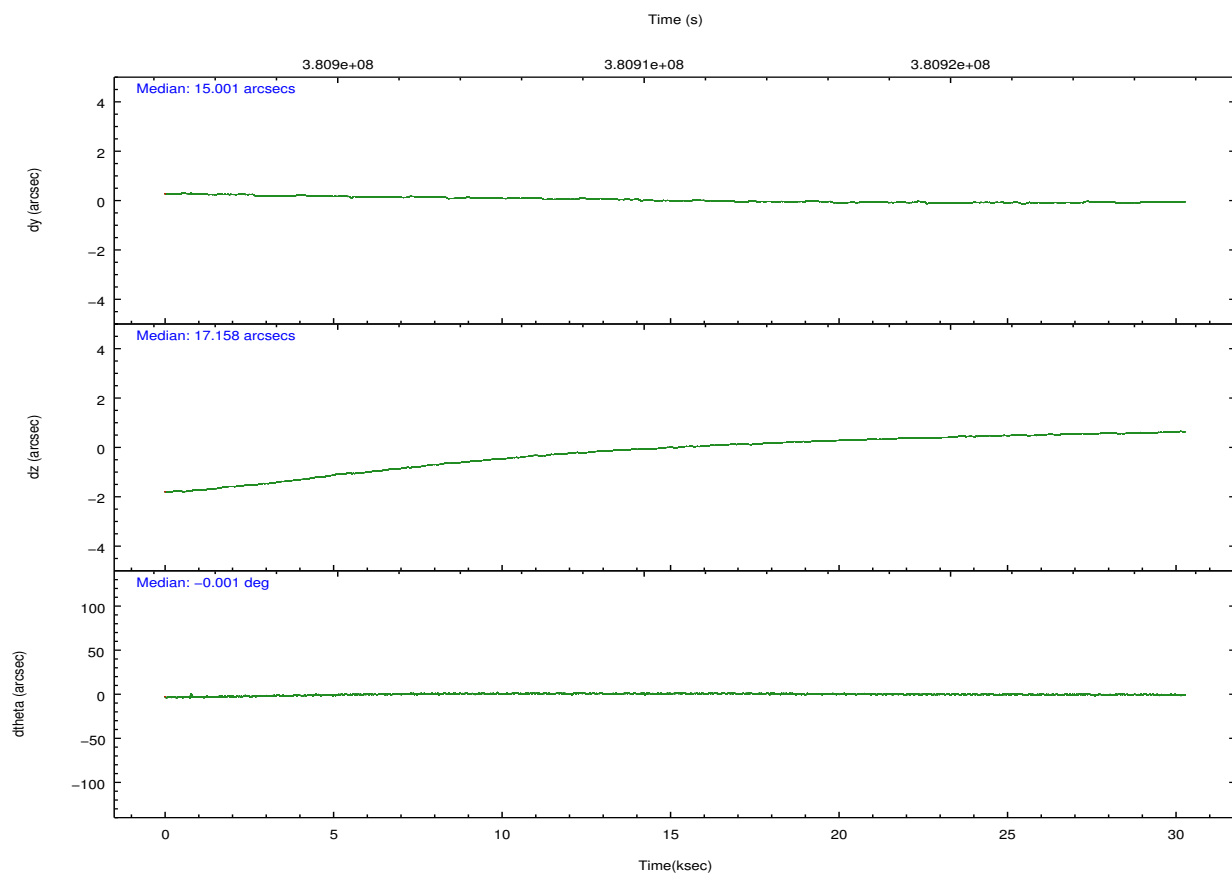
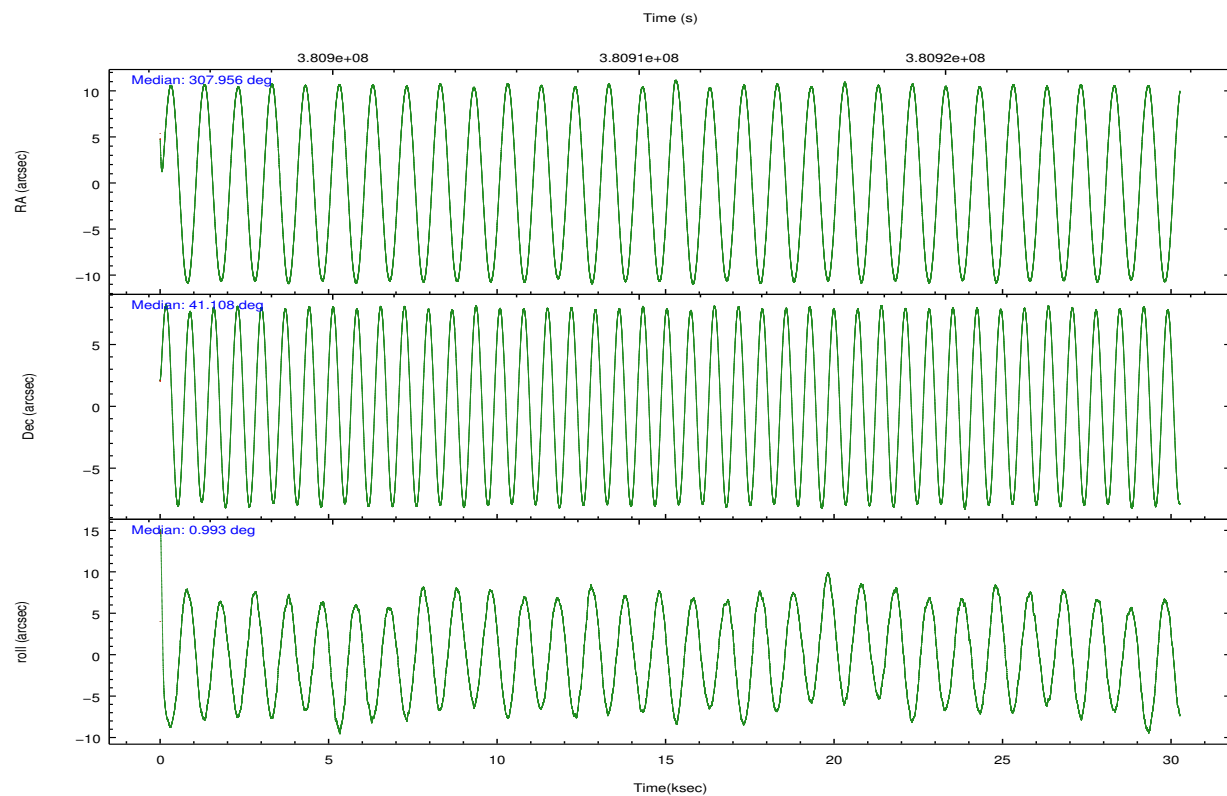
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	899463	213909	230775	223037	246379	233914	grade 0 events	352772	13773	14247	12197	20257	12592
rejected events	300261	182432	200628	196275	208606	116512		39%	6%	6%	5%	8%	5%
rejected %	33%	85%	86%	88%	84%	49%	grade 1 events	43575	139	189	173	202	355
								4%	0%	0%	0%	0%	0%
							grade 2 events	101861	6458	6383	5311	6814	25225
								11%	3%	2%	2%	2%	10%
							grade 3 events	38401	3077	2614	2501	2853	11080
								4%	1%	1%	1%	1%	4%
							grade 4 events	37124	2831	2647	2431	2790	10880
								4%	1%	1%	1%	1%	4%
							grade 5 events	42380	7731	6843	8141	8175	24616
								4%	3%	2%	3%	3%	10%
							grade 6 events	69044	5338	4261	4325	5065	57643
								7%	2%	1%	1%	2%	24%
							grade 7 events	214306	174562	193591	187958	200223	91523
								23%	81%	83%	84%	81%	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	307.924818	307.9560352139601	CCD I2 on	Y	Y
[deg] Pointing Dec	41.093623	41.10788206587561	CCD I3 on	Y	Y
[deg] Pointing Roll	0.807323	0.9954949747152266	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)	380897136.184000	380894807.86069	CCD S5 on	N	N
Observation start date	2010-01-26T12:44:30	2010-01-26T12:06:47	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	380926136.184000	380927446.93734	On-chip summing requested	N	N
Observation end date	2010-01-26T20:47:50	2010-01-26T21:10:46	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



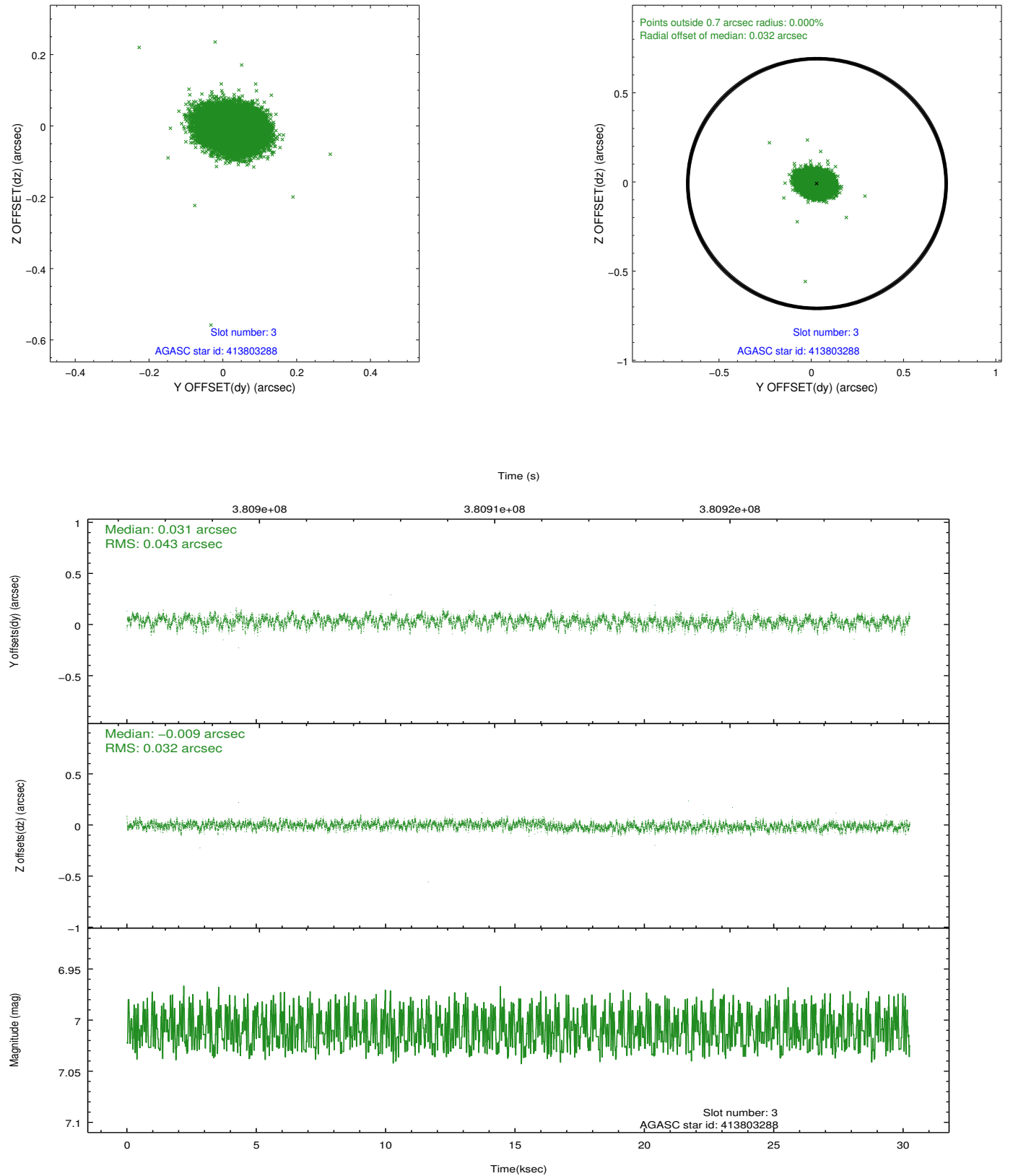


Slot Statistics

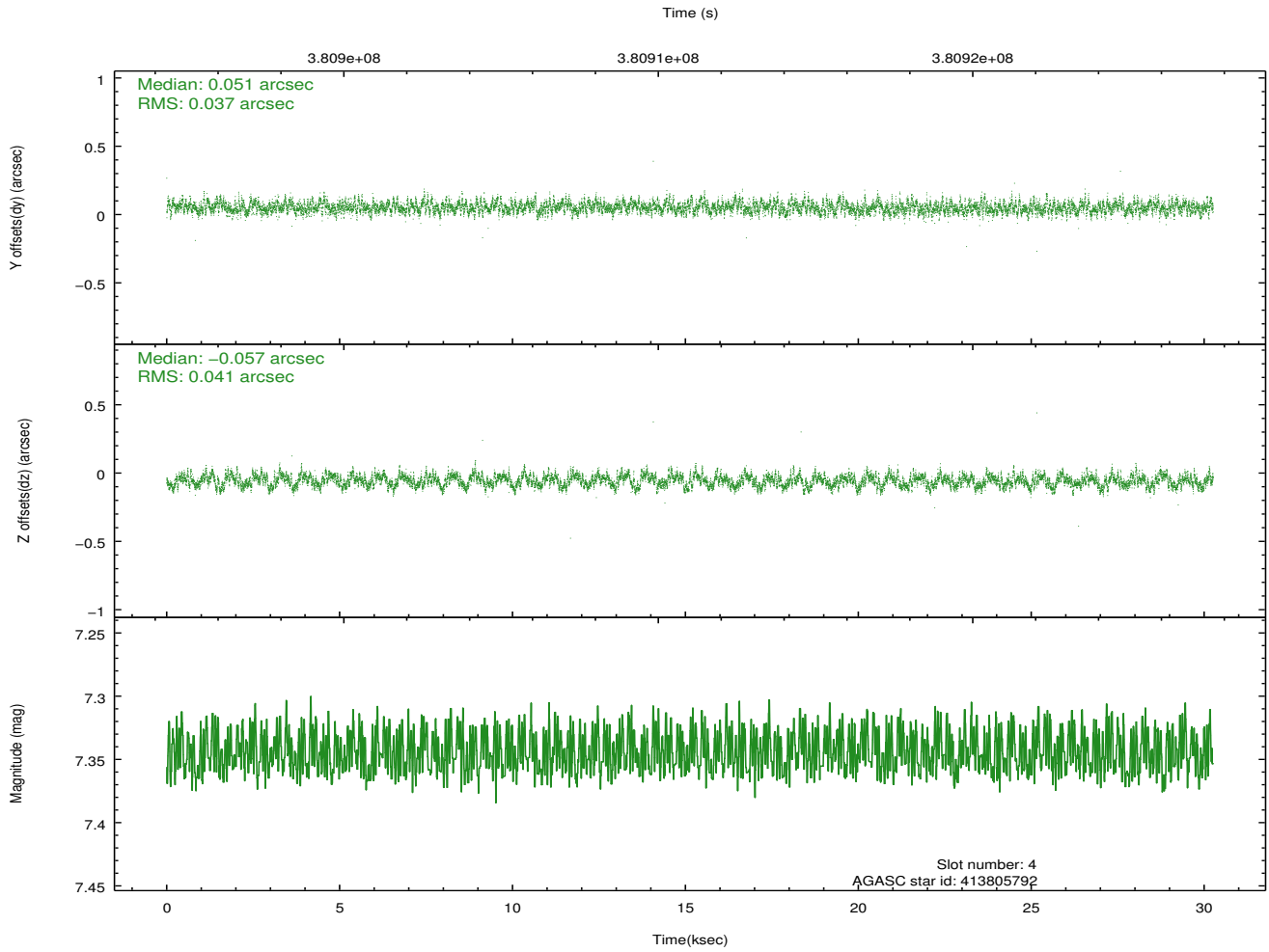
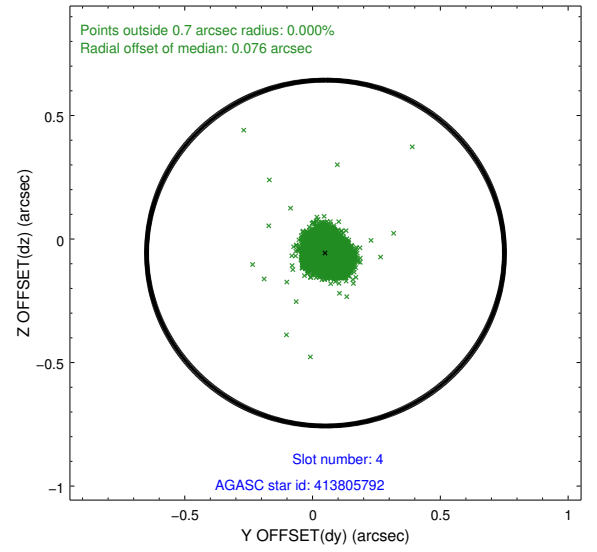
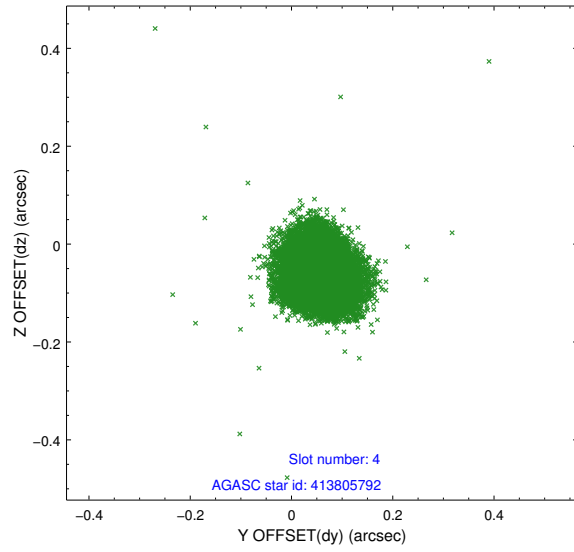
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.00	7382	0.065	-0.022	0.014	0.032	0.000000	0.000000	924.47	-840.61
1	FID	ACIS-I-5	7.00	7382	-0.224	0.067	0.014	0.033	0.000000	0.000000	-1823.87	1056.95
2	FID	ACIS-I-6	7.01	7382	0.070	0.026	0.017	0.030	0.000000	0.000000	389.97	1701.48
3	GUIDE	413803288	7.01	14760	0.031	-0.009	0.057	0.091	307.629978	40.506899	-836.43	-2099.19
4	GUIDE	413805792	7.35	14762	0.051	-0.057	0.058	0.091	307.778748	40.858024	-409.32	-841.81
5	GUIDE	414326136	7.35	14762	-0.146	-0.088	0.071	0.111	308.256176	41.473642	913.15	1357.41
6	GUIDE	413674208	8.33	14758	0.073	0.148	0.063	0.102	307.139504	40.901877	-2145.84	-650.24
7	GUIDE	414328464	9.18	14754	-0.010	0.005	0.082	0.134	308.778827	41.333671	2320.61	843.10

2.4 Star Slots

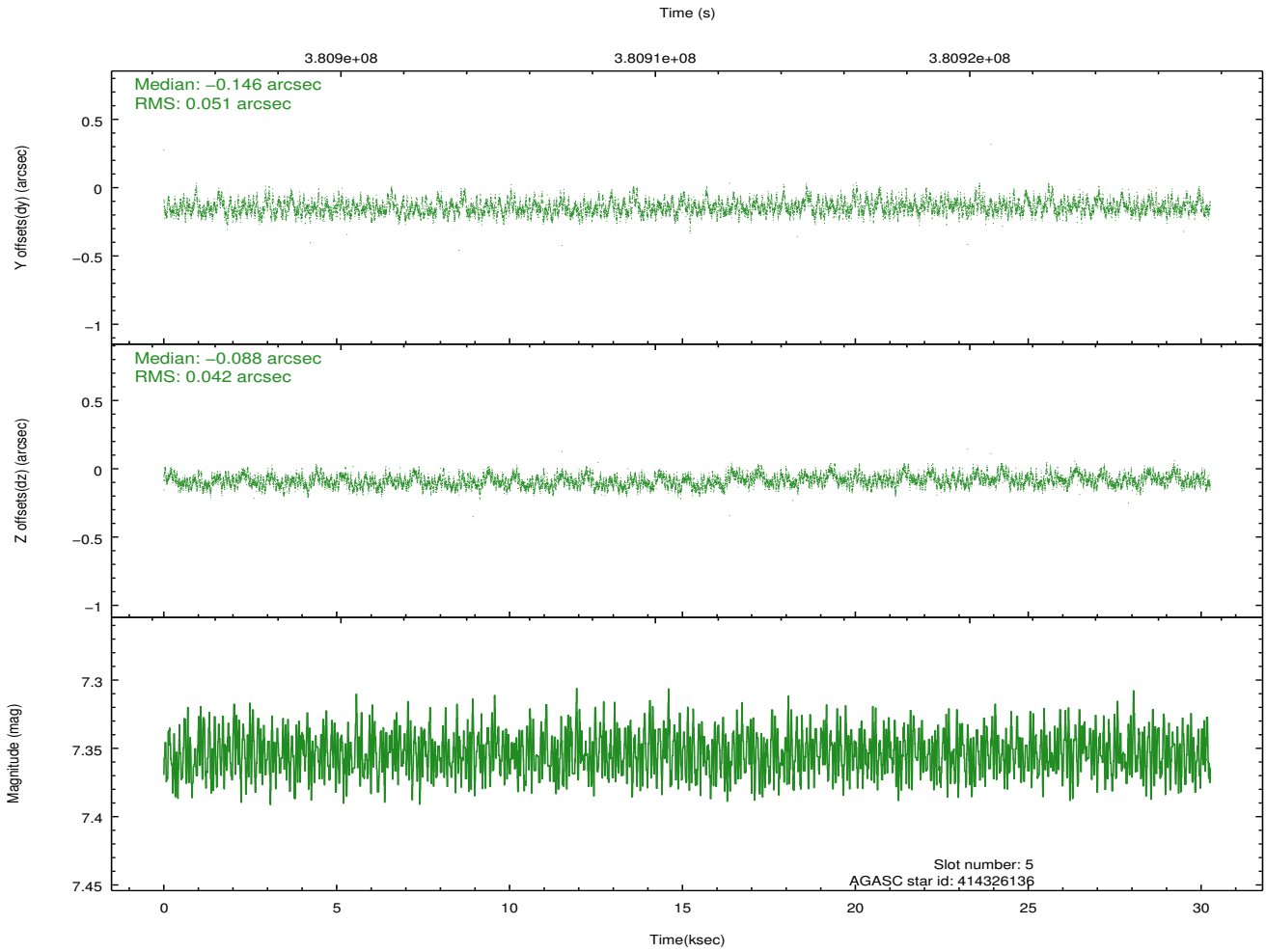
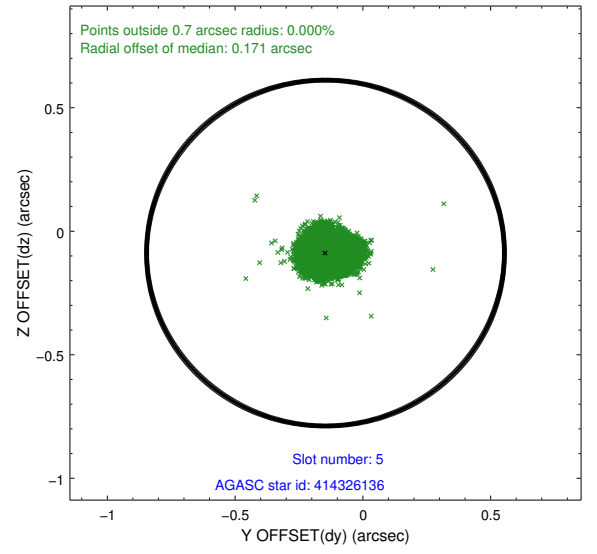
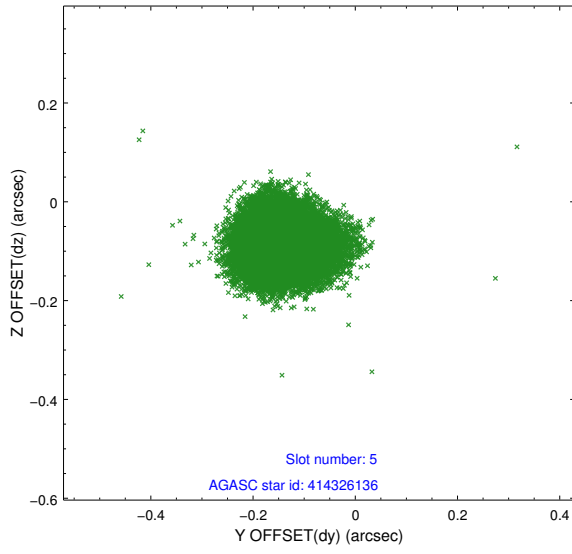
2.4.1 Slot 3



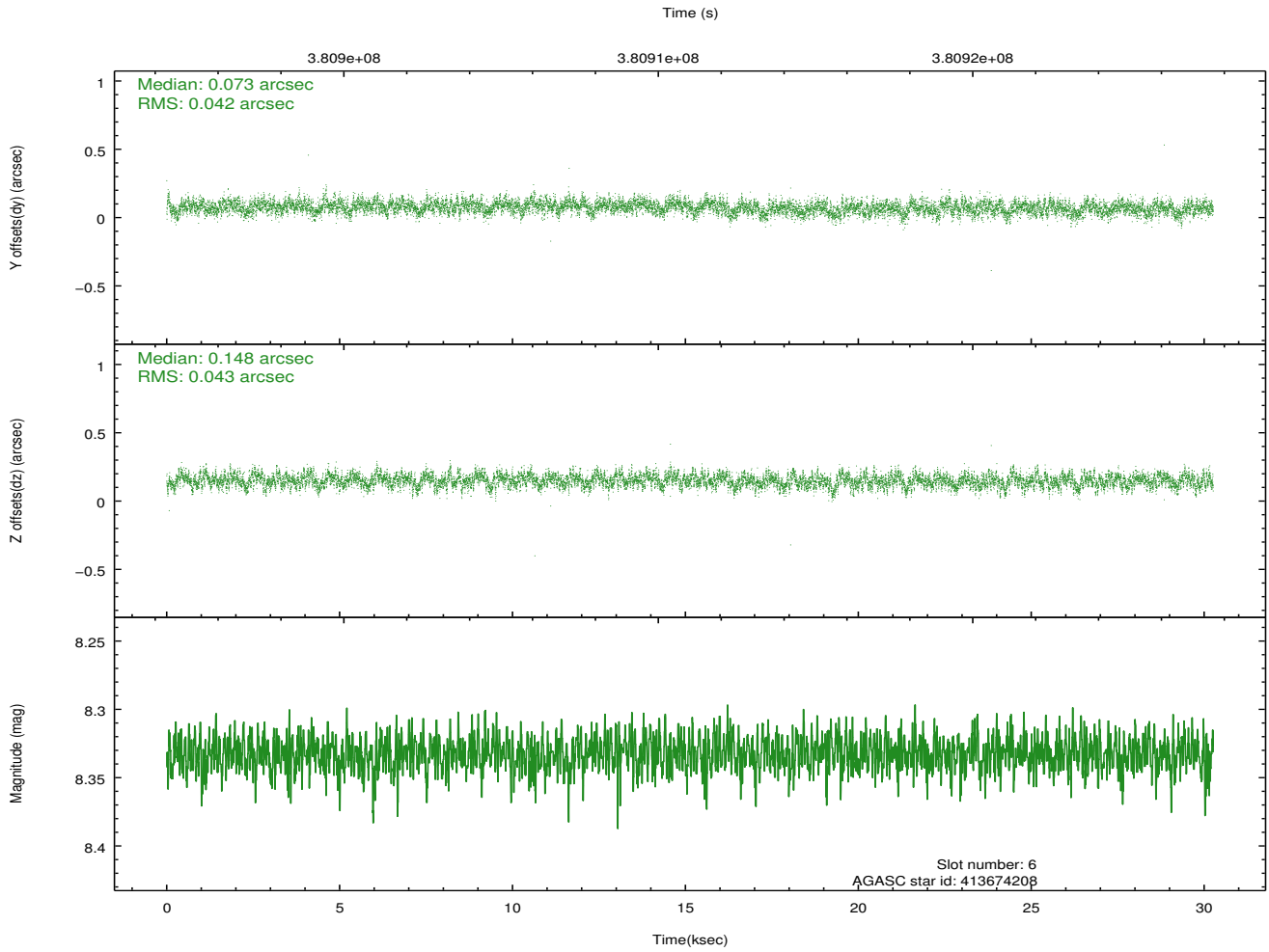
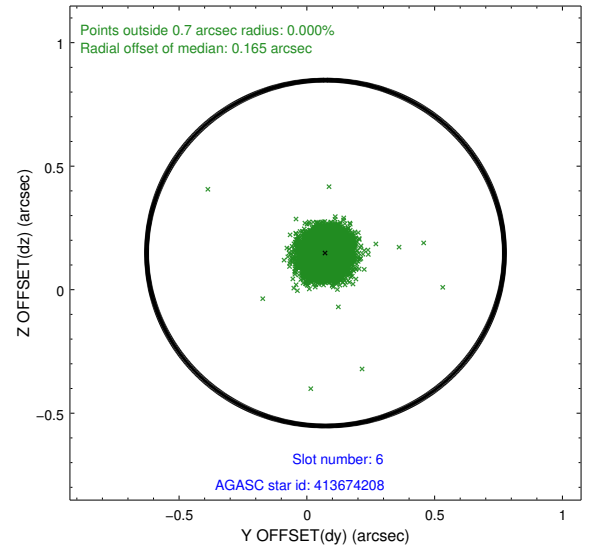
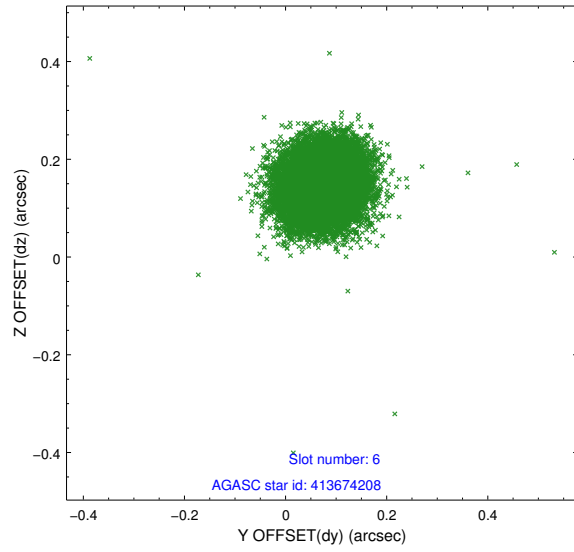
2.4.2 Slot 4



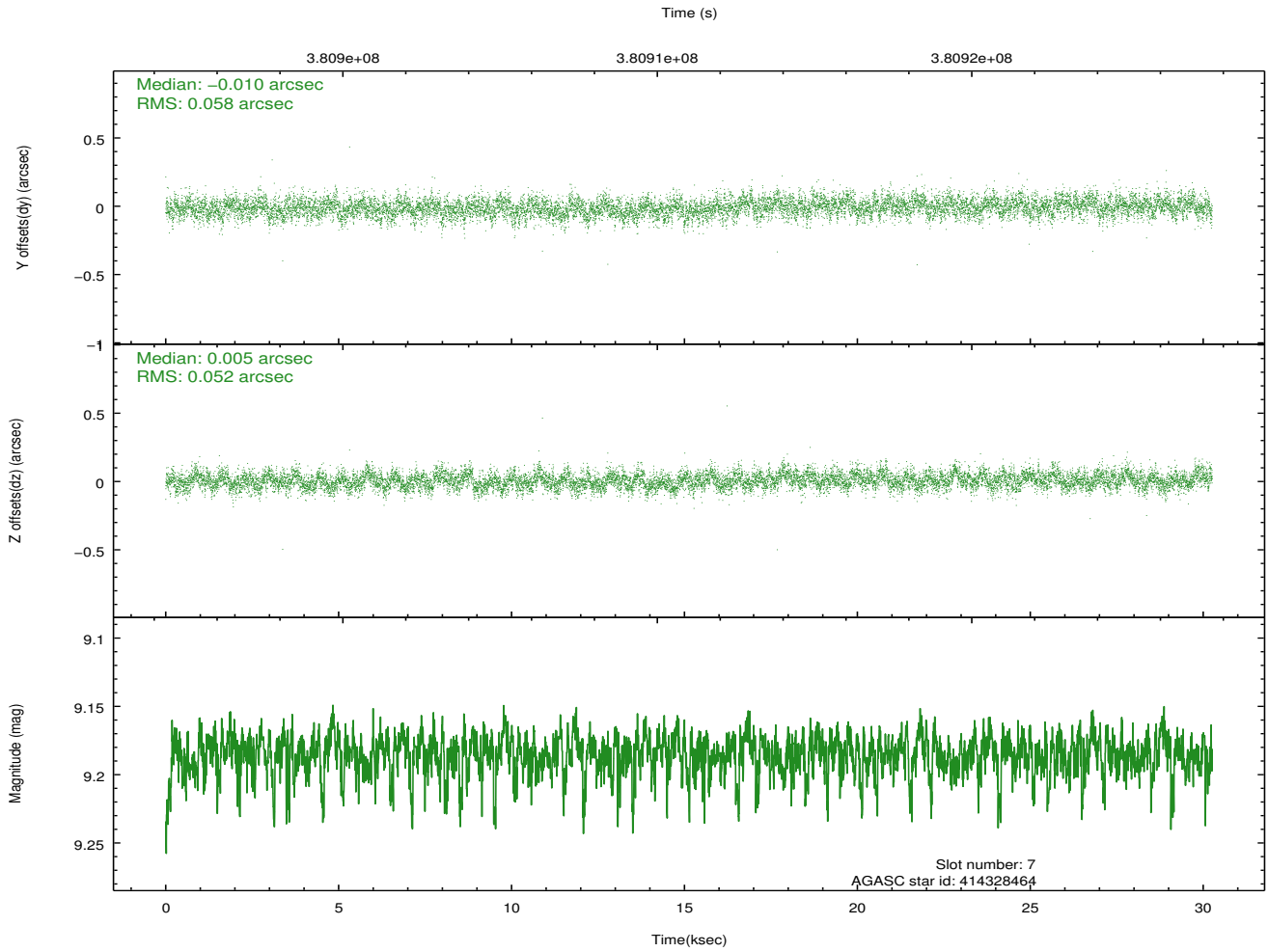
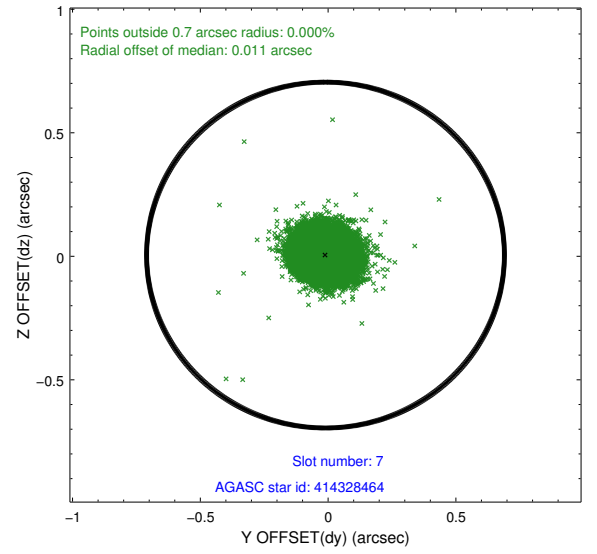
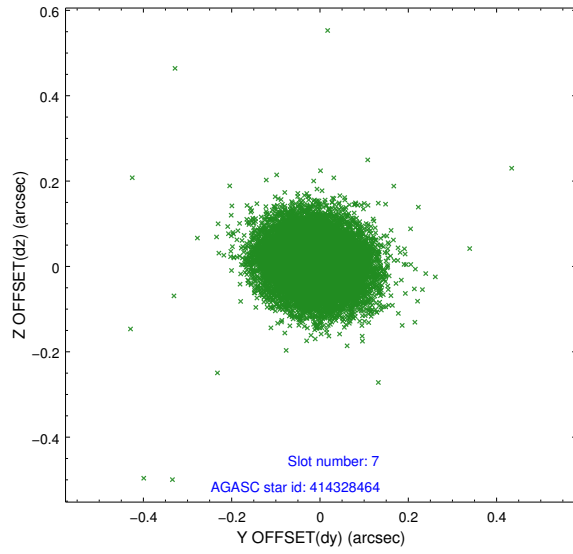
2.4.3 Slot 5



2.4.4 Slot 6

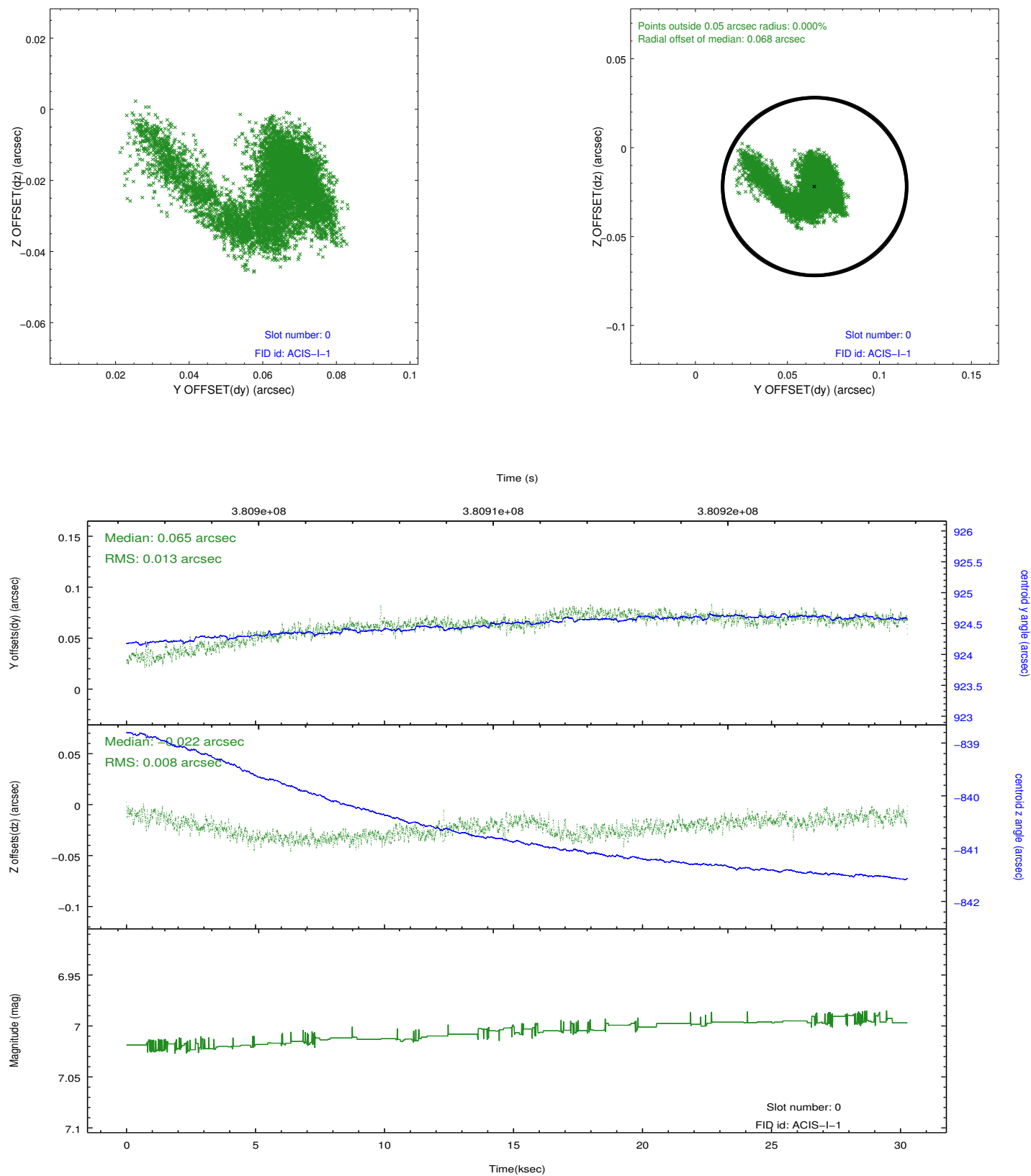


2.4.5 Slot 7

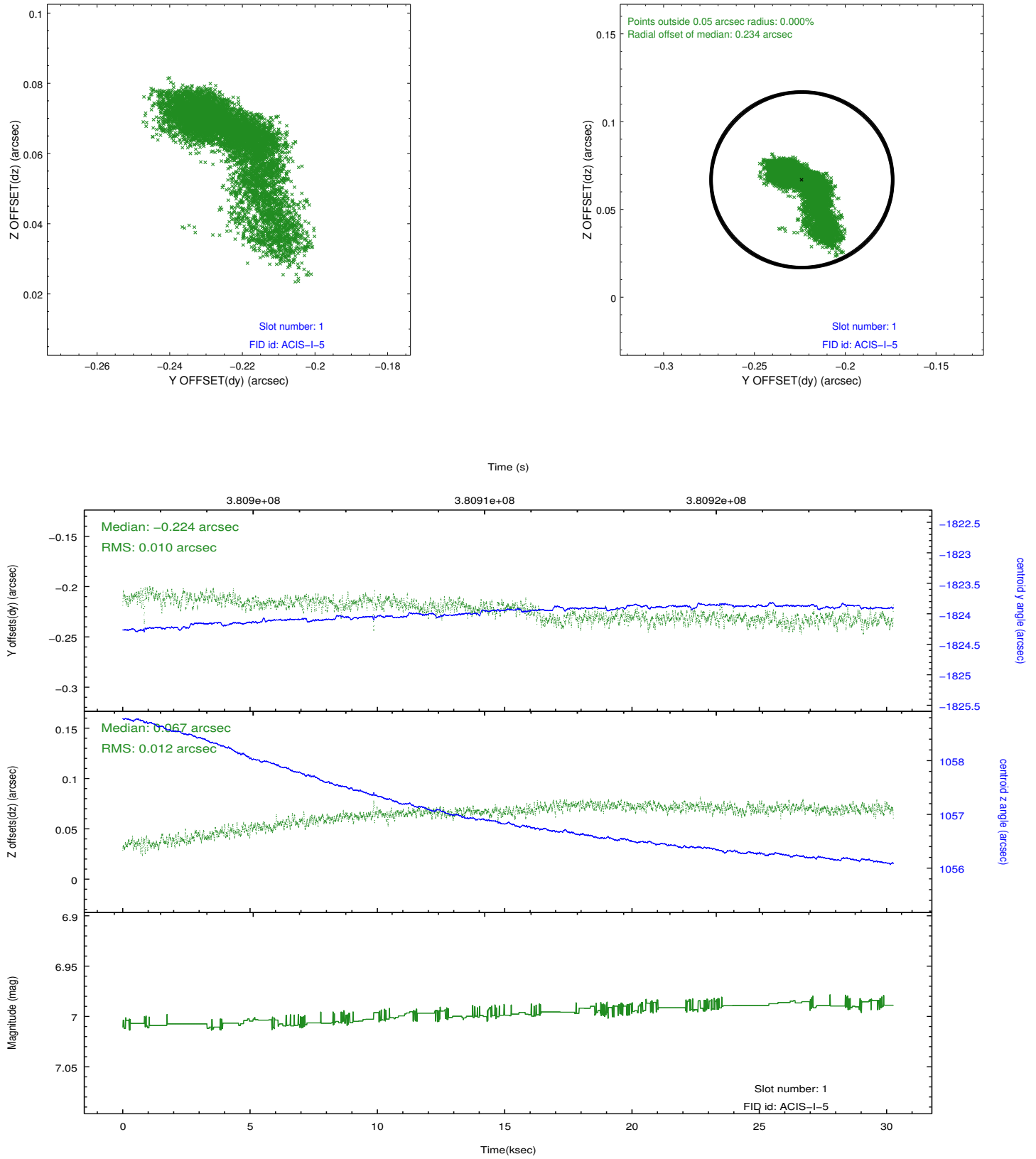


2.5 FID Slots

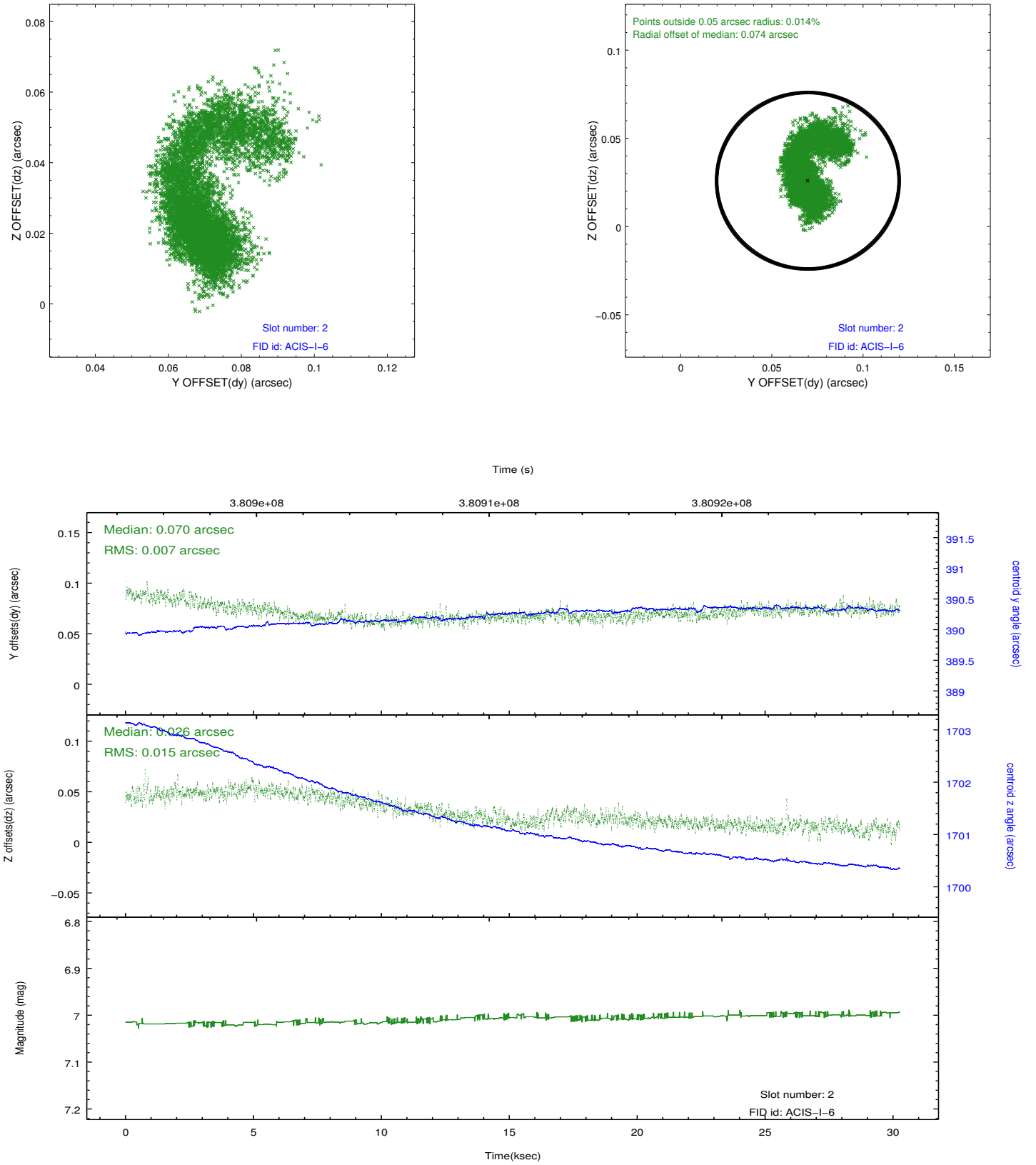
2.5.1 Slot 0



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)	2012.06.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	28.048222480118

A.2 Comments