

V&V Reference Report

L2 ASCDS Version : 10.2.1

Observation 16603 - L2 Version 2
Chandra X-Ray Center

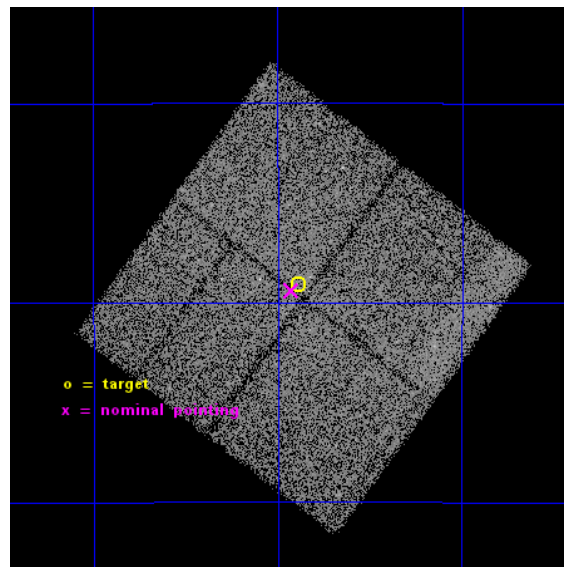
L2 Processing Date : Dec 10 2014

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

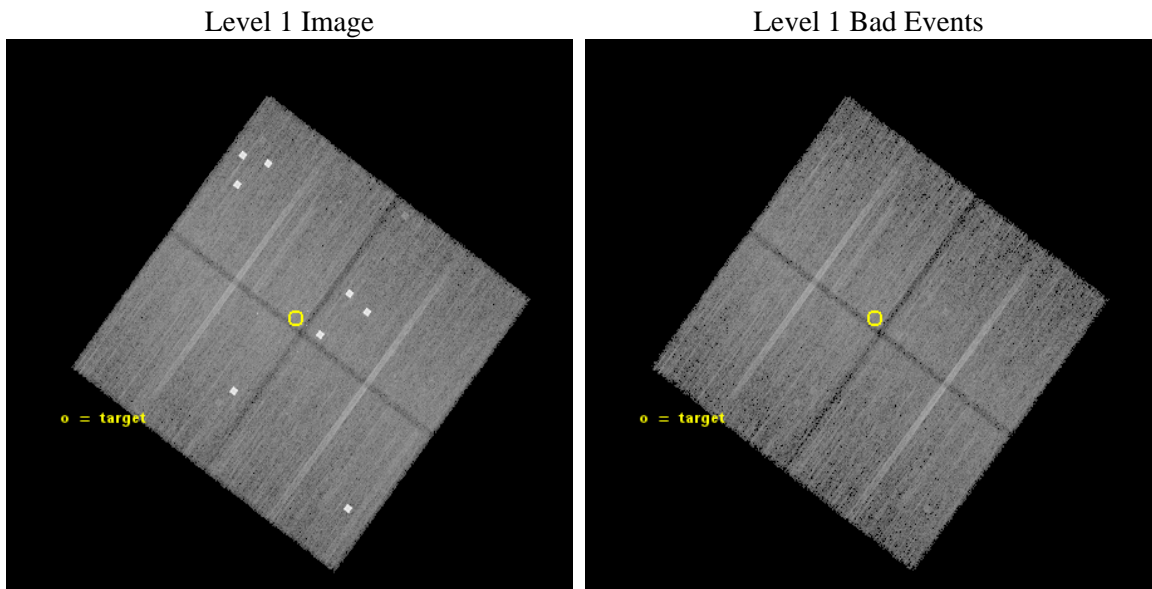
seq_num	200845	Sequence number
obs_id	16603	Observation id
title	Star formation close to the most massive stars in our Galaxy: unveiling the PMS members of Pismis 11	Proposal title
observer	Dr Mario Guarcello	Principal investigator
object	Pismis11	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	138.97115	Observer's specified target RA [deg]
dec_targ	-49.985044	Observer's specified target Dec [deg]
ra_nom	138.98131869362	Nominal RA [deg]
dec_nom	-49.989775454535	Nominal Dec [deg]
roll_nom	306.81645874878	Nominal Roll [deg]
revision	2	Processing version of data
ontime	43085.860438406	Sum of GTIs [s]
livetime	42522.91195243	Livetime [s]
ontime0	43088.878338754	Sum of GTIs [s]
ontime1	43088.919378757	Sum of GTIs [s]
ontime2	43088.960418761	Sum of GTIs [s]
ontime3	43085.860438406	Sum of GTIs [s]
l2events	88927	Number of level 2 events



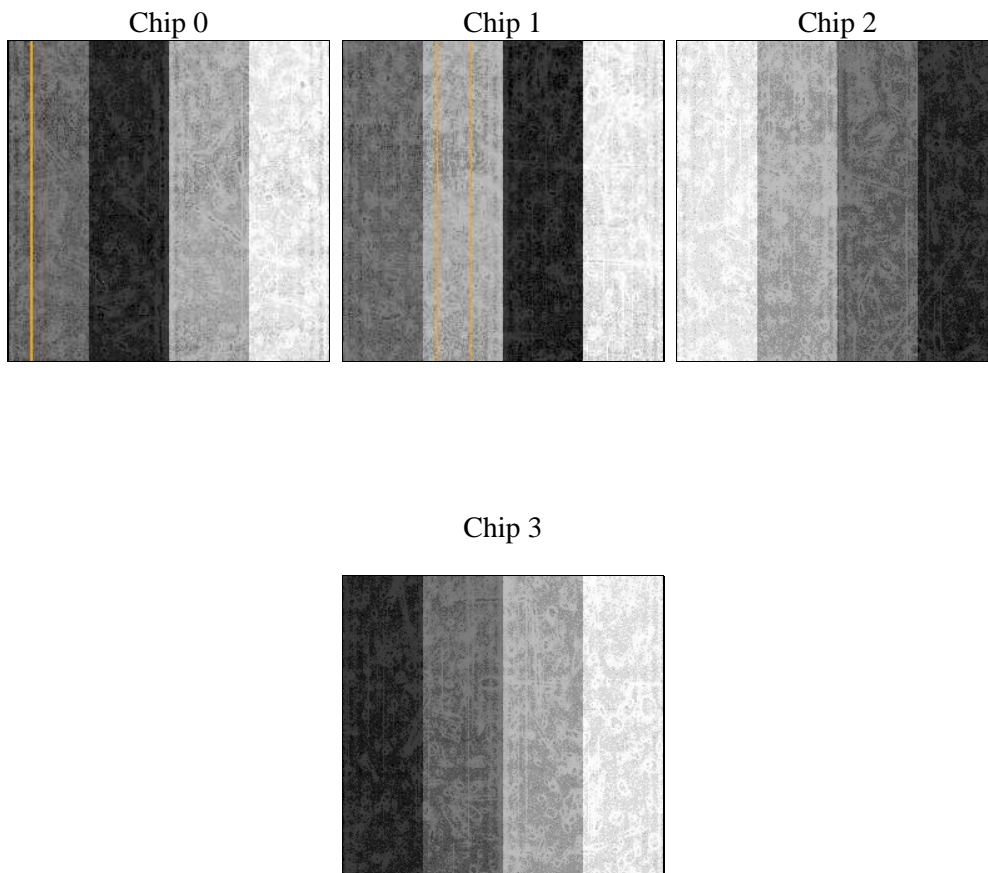
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	43000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	43085.860438406	Sum of GTIs [s]
caldsver	4.6.4	 	ontime0	43088.878338754	Sum of GTIs [s]
date	2014-12-10T22:02:20	Date and time of file creation	ontime1	43088.919378757	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	43088.960418761	Sum of GTIs [s]
			ontime3	43085.860438406	Sum of GTIs [s]
			l1events	922772	Number of level 1 events

2.1.4 Events

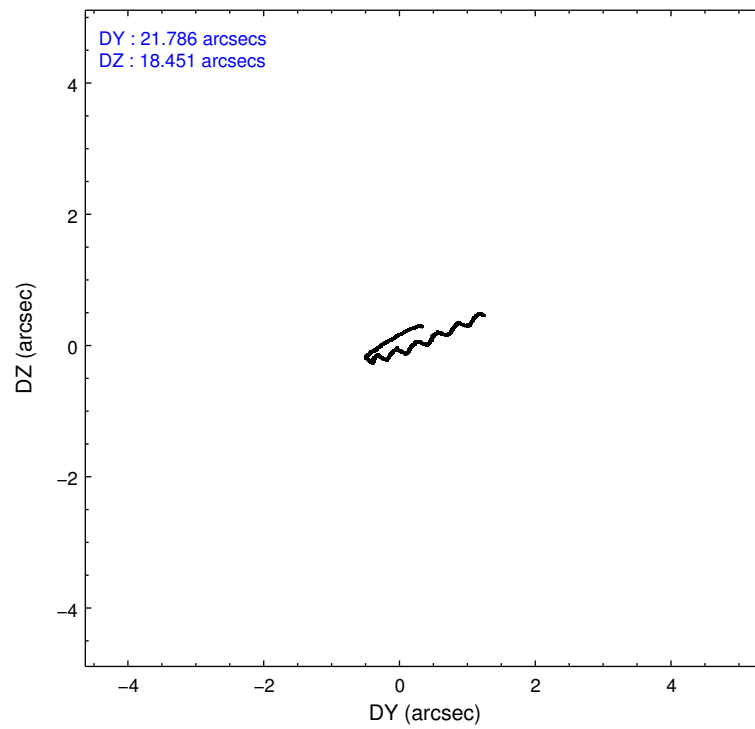
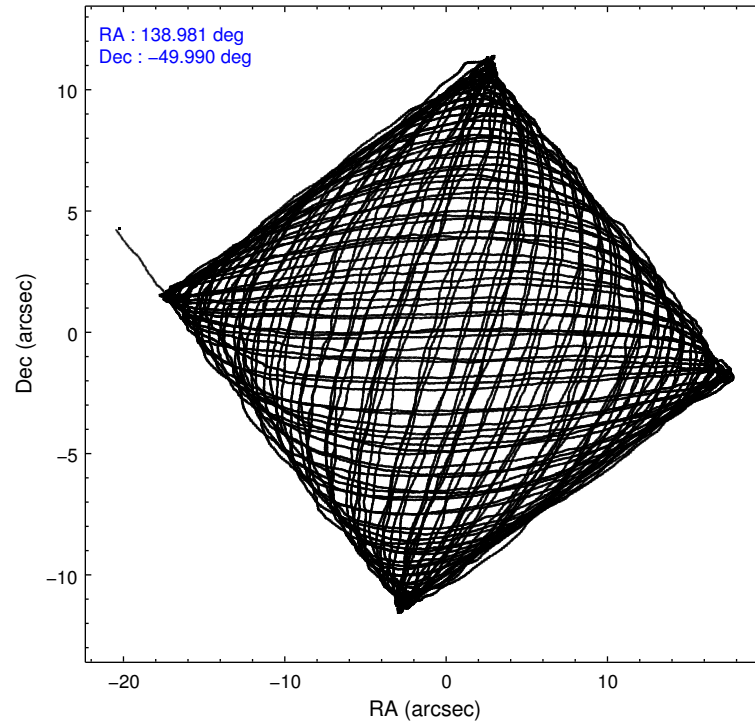
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	206543	235592	228047	252590
rejected events	165465	166059	186512	187464
rejected %	80%	70%	81%	74%

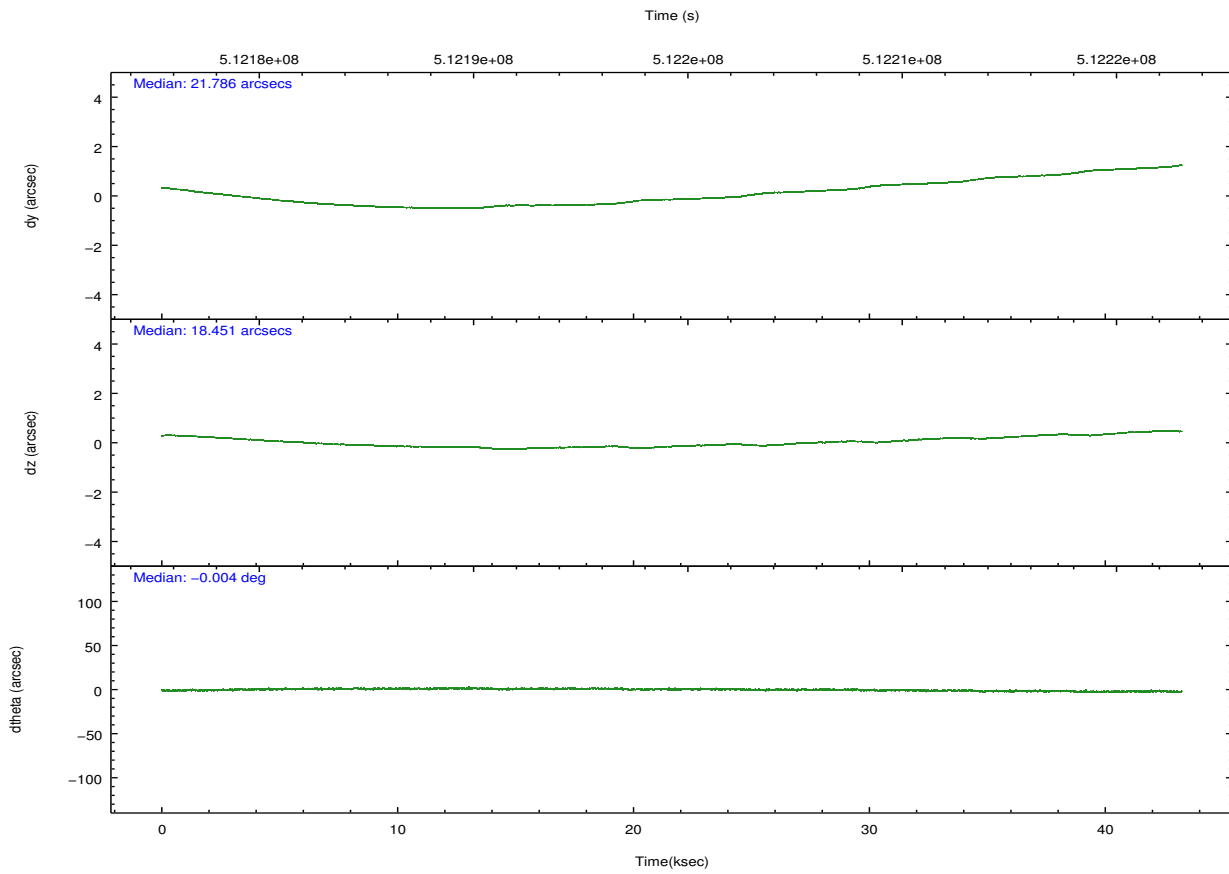
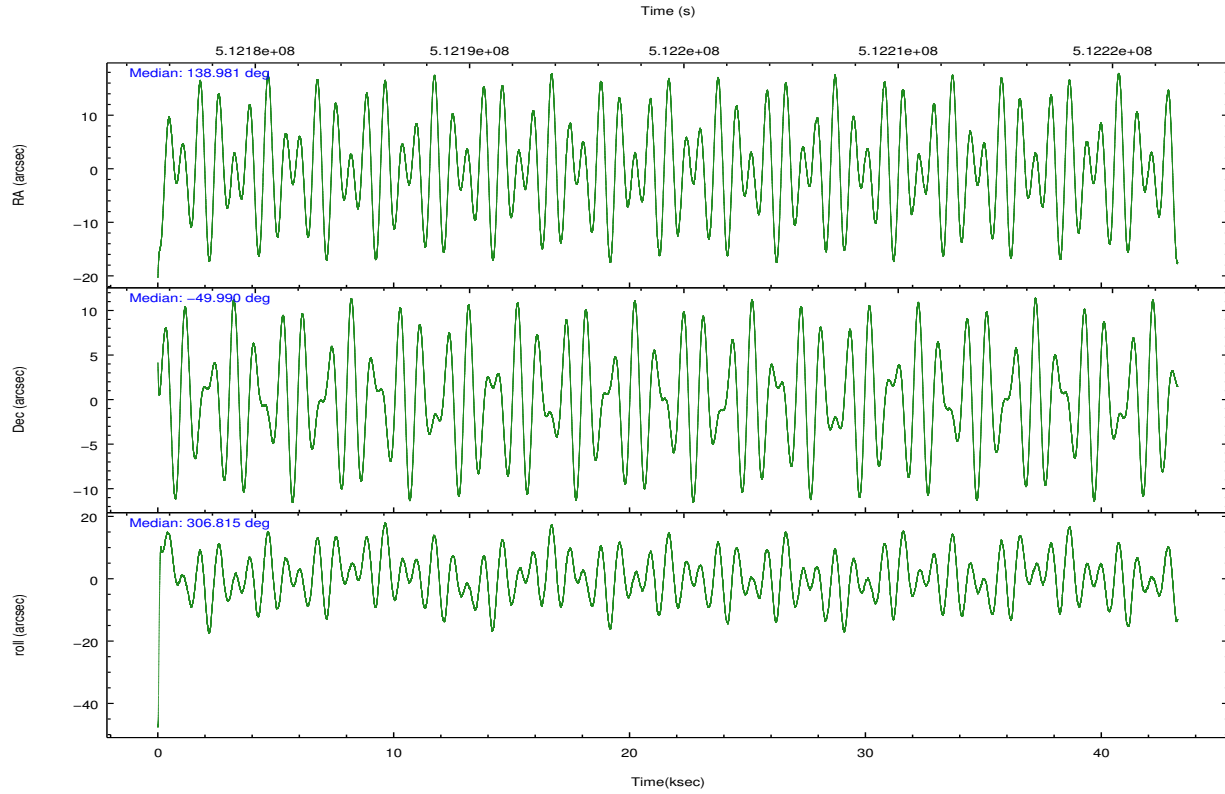
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	24578	50797	24657	36279
	11%	21%	10%	14%
grade 1 events	168	316	216	220
	0%	0%	0%	0%
grade 2 events	6727	7553	6887	18858
	3%	3%	3%	7%
grade 3 events	2604	2686	2362	2435
	1%	1%	1%	0%
grade 4 events	2434	2743	2854	2519
	1%	1%	1%	0%
grade 5 events	9275	10144	8943	10990
	4%	4%	3%	4%
grade 6 events	4745	5762	4781	5048
	2%	2%	2%	1%
grade 7 events	156012	155591	177347	176241
	75%	66%	77%	69%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	138.941954	138.9813186936238	Subarray requested	NONE	NONE
[deg] Pointing Dec	-49.979060	-49.98977545453489	Alternating exposures requested	N	N
[deg] Pointing Roll	306.577649	306.816458748779	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	512177871.184000	512176965.91825			
Observation start date	2014-03-25T23:36:44	2014-03-25T23:22:45			
[s] Observation end time (MET)	512220871.184000	512221559.57071			
Observation end date	2014-03-26T11:33:24	2014-03-26T11:45:59			
Read mode	TIMED	TIMED			

2.3 Aspect





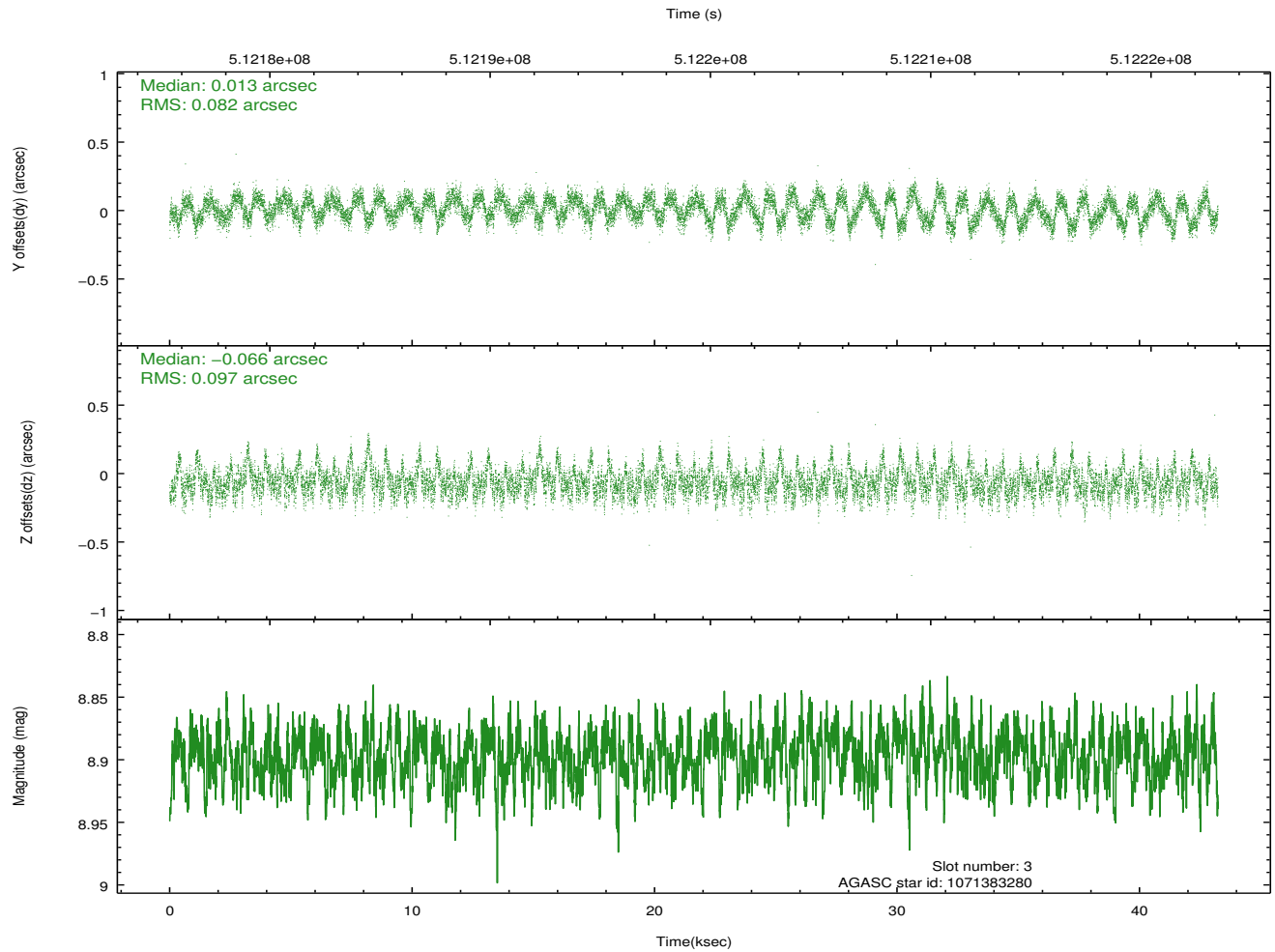
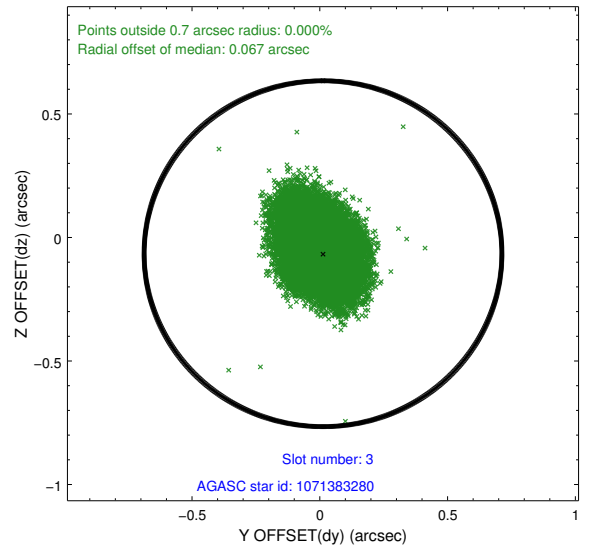
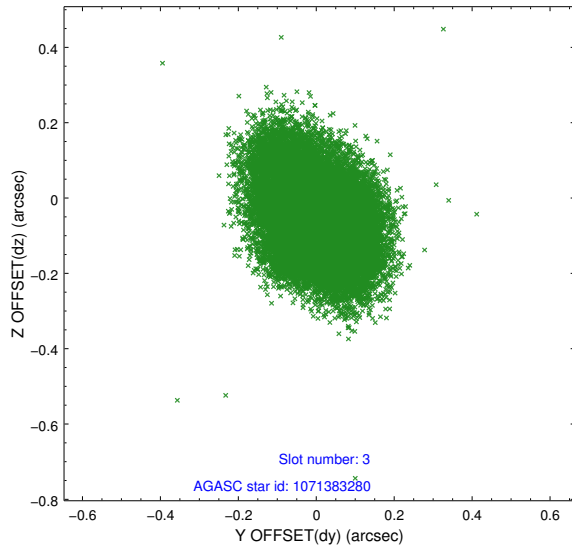
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.13	10545	0.036	0.038	0.009	0.018	0.000000	0.000000	917.42	-842.10
1	FID		ACIS-I-5	7.12	10545	-0.263	0.037	0.009	0.014	0.000000	0.000000	-1831.05	1055.29
2	FID		ACIS-I-6	7.13	10545	0.136	-0.004	0.009	0.015	0.000000	0.000000	382.98	1699.83
3	GUIDE	used	1071383280	8.90	21074	0.013	-0.066	0.134	0.223	139.760297	-50.070843	1400.32	1315.45
4	GUIDE	used	1071383632	7.10	21091	-0.096	-0.009	0.086	0.138	138.521715	-49.480940	-2023.44	277.80
5	GUIDE	used	1071388528	7.00	21090	-0.067	-0.016	0.090	0.148	139.166960	-49.578706	-843.95	1280.27
6	GUIDE	used	1071252112	8.96	21082	0.213	0.204	0.116	0.183	137.781380	-49.725458	-2325.46	-1637.02
7	GUIDE	used	1071389200	8.90	21077	-0.060	-0.107	0.130	0.208	139.722167	-49.796287	559.41	1842.40

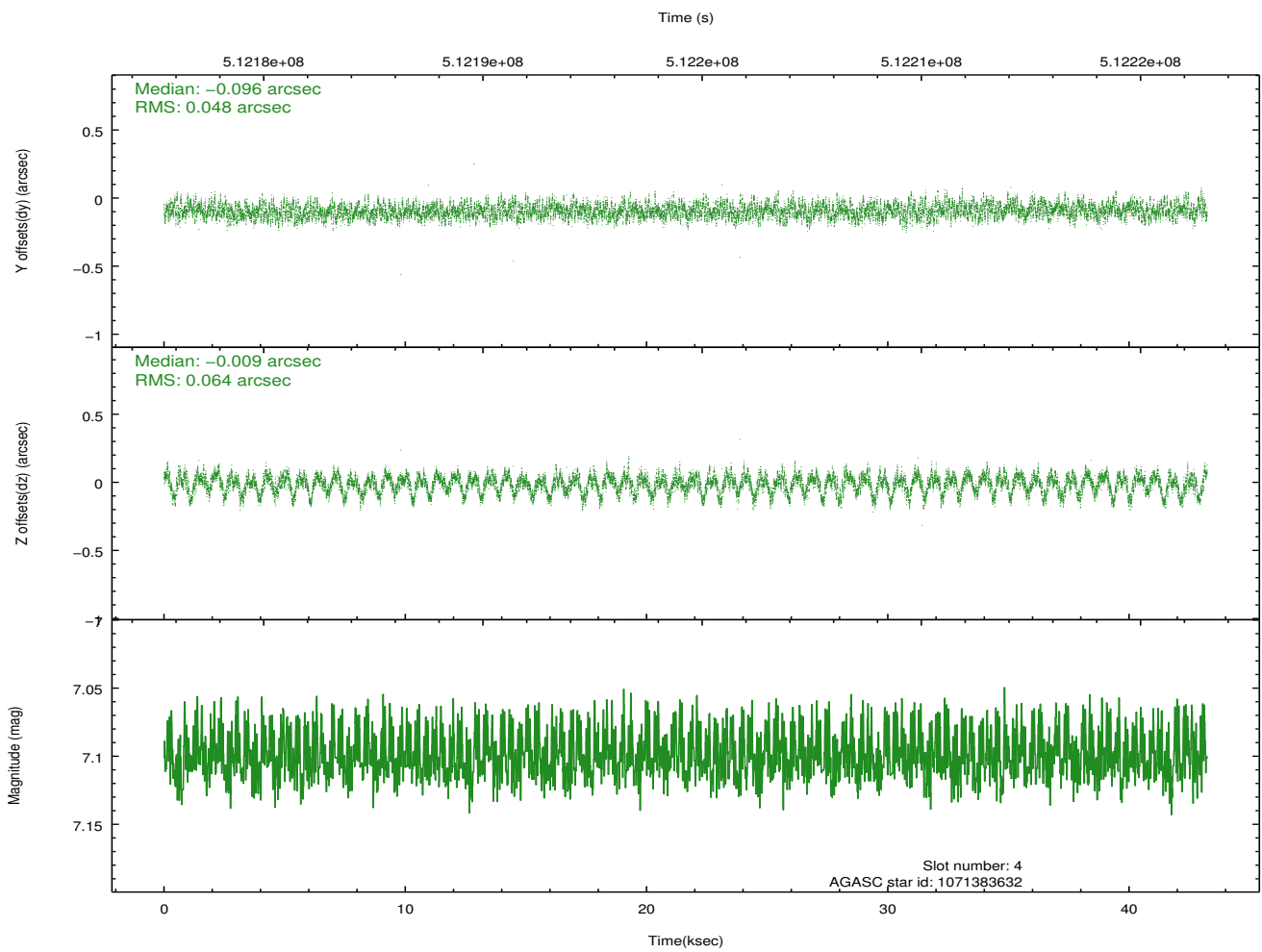
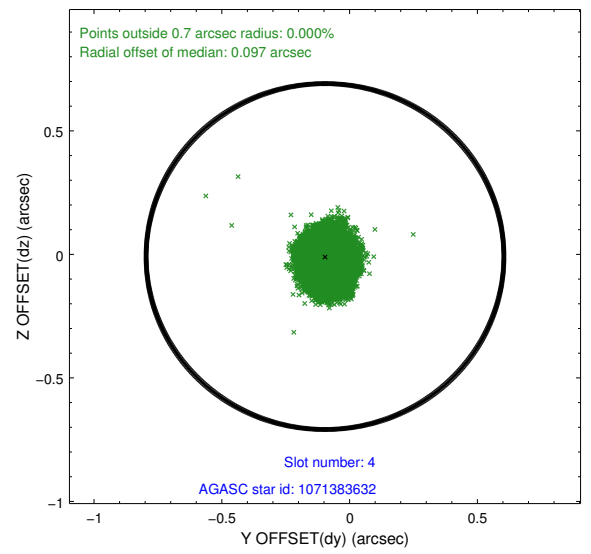
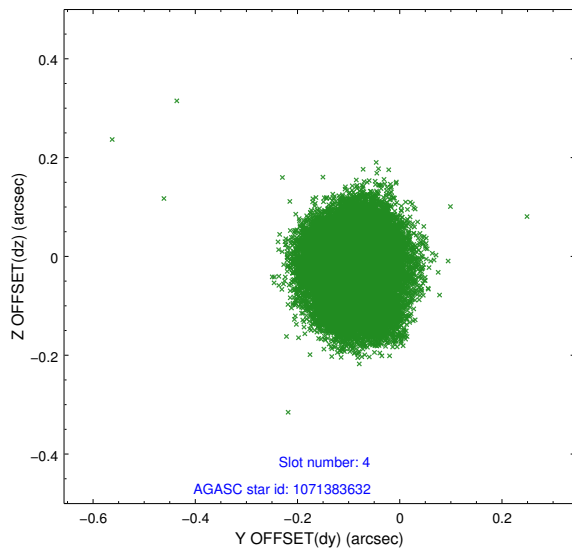
∞

2.4 Star Slots

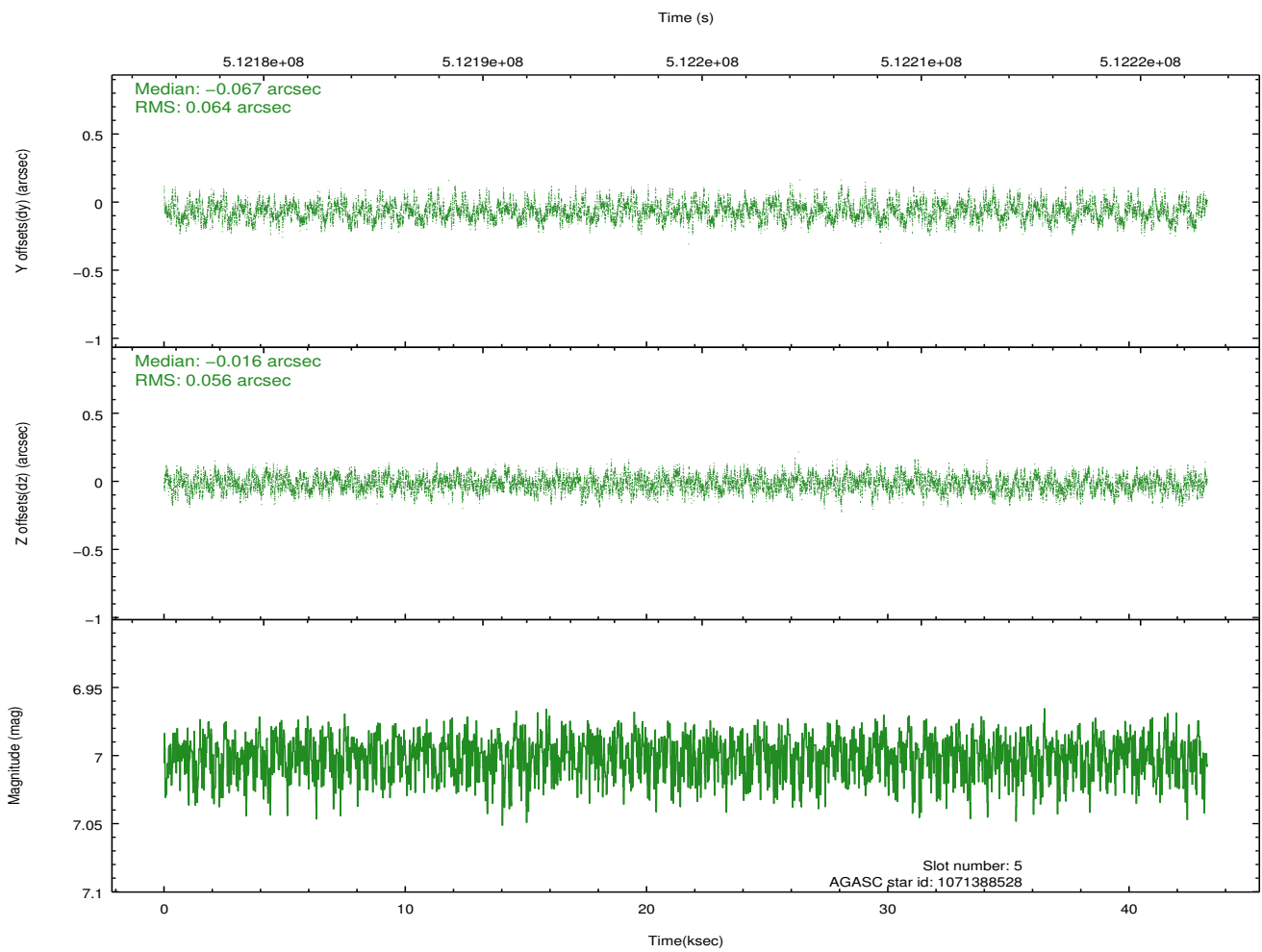
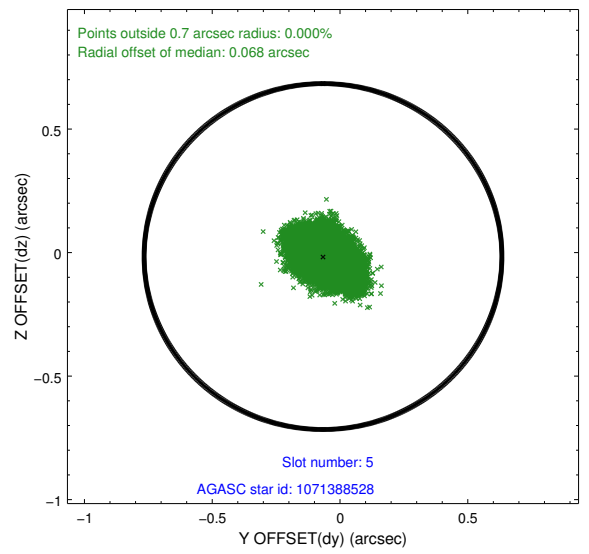
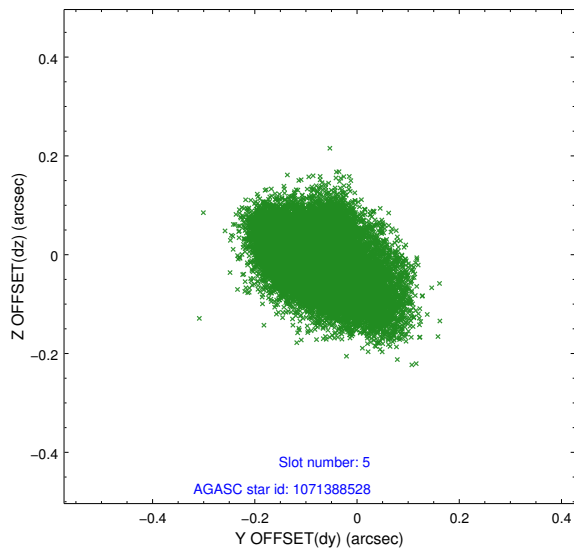
2.4.1 Slot 3



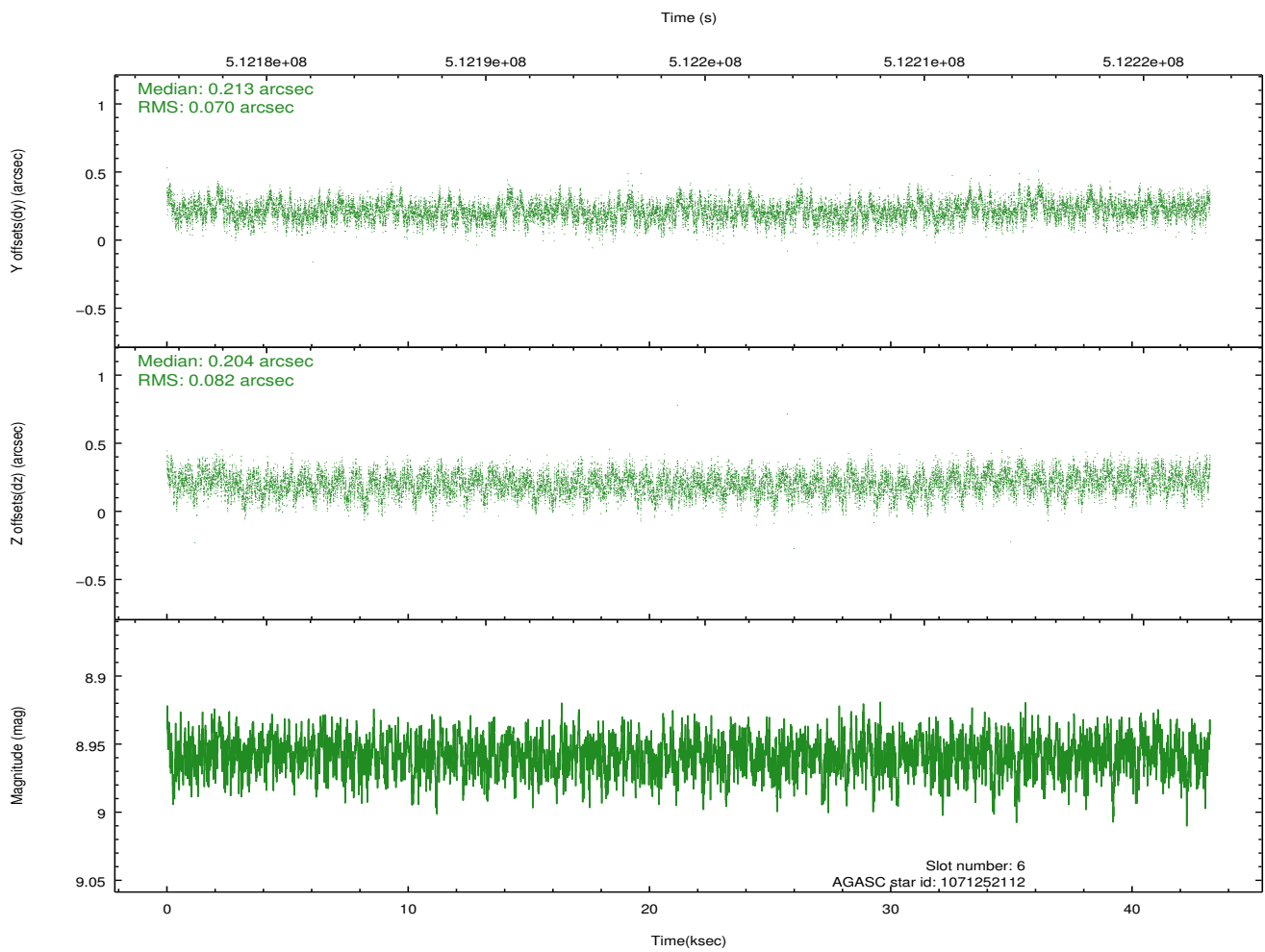
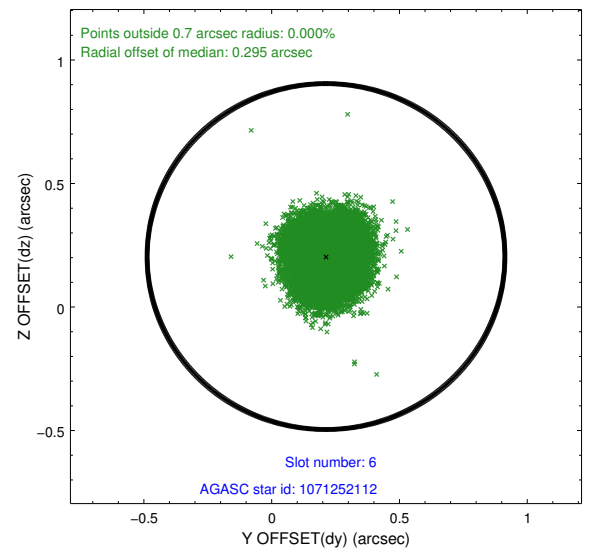
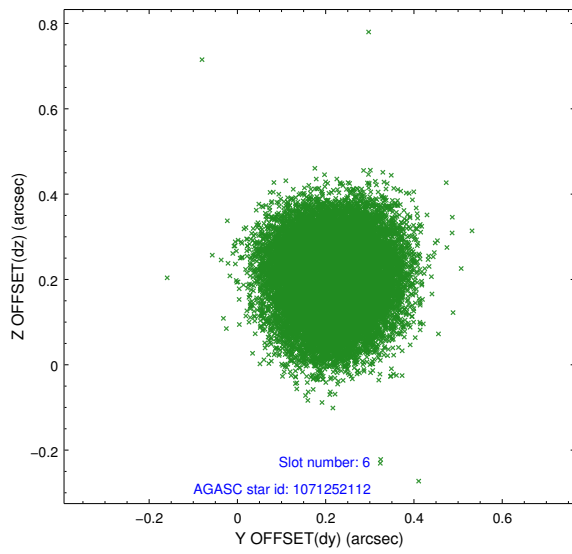
2.4.2 Slot 4



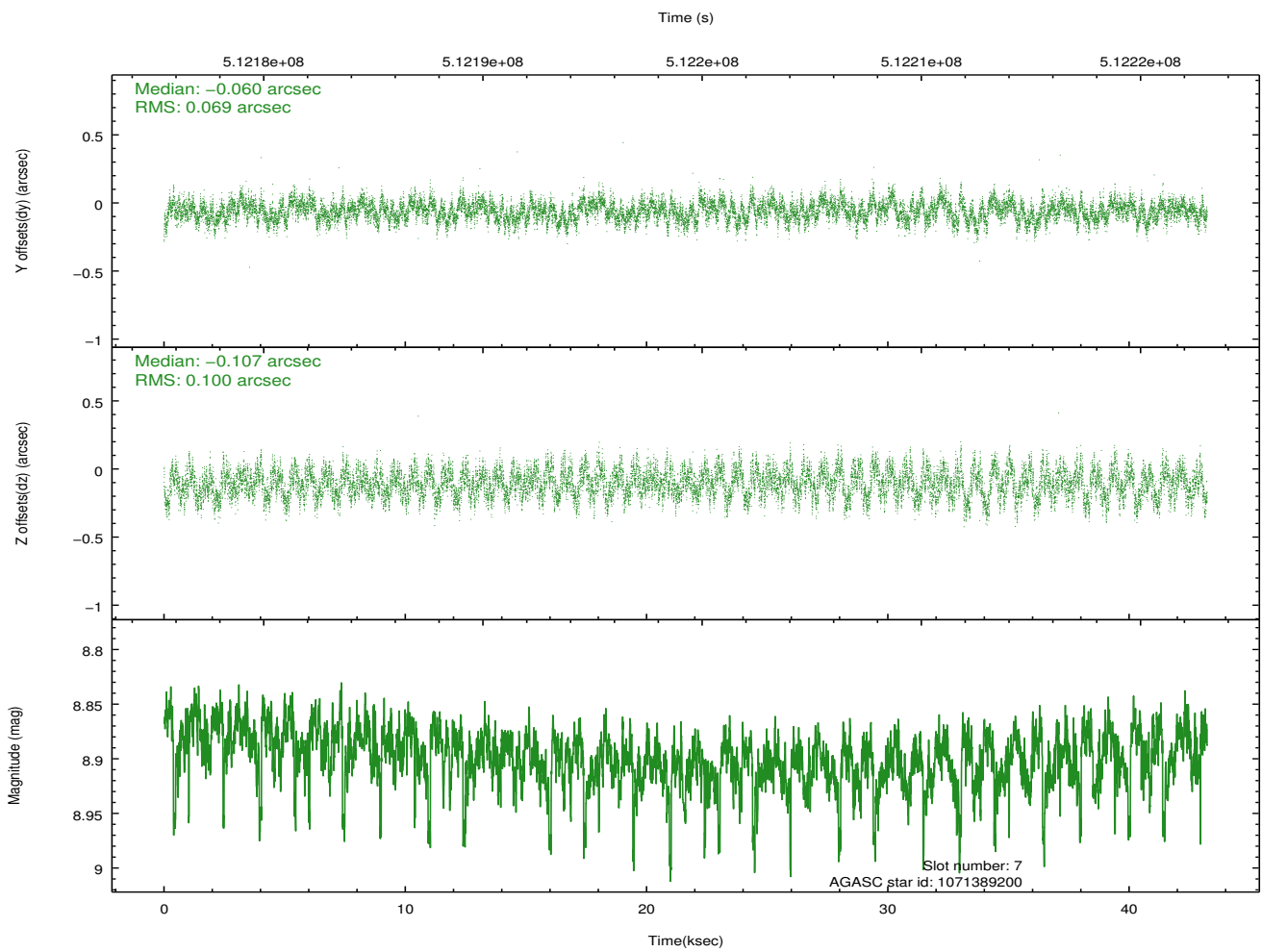
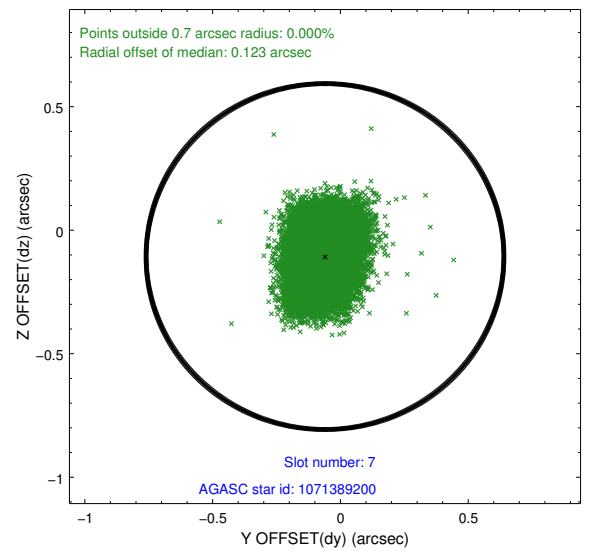
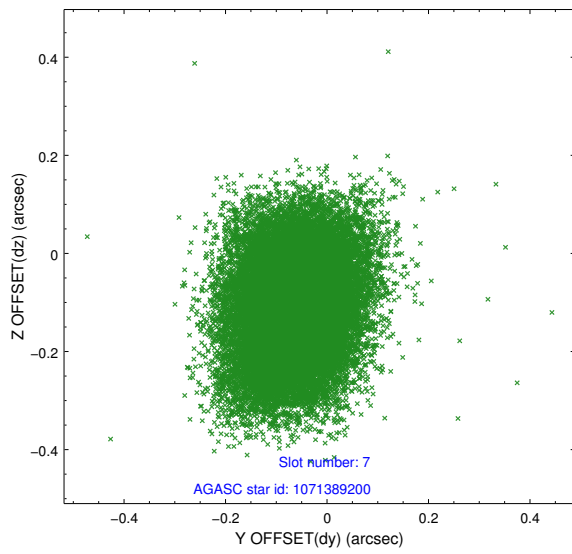
2.4.3 Slot 5



2.4.4 Slot 6

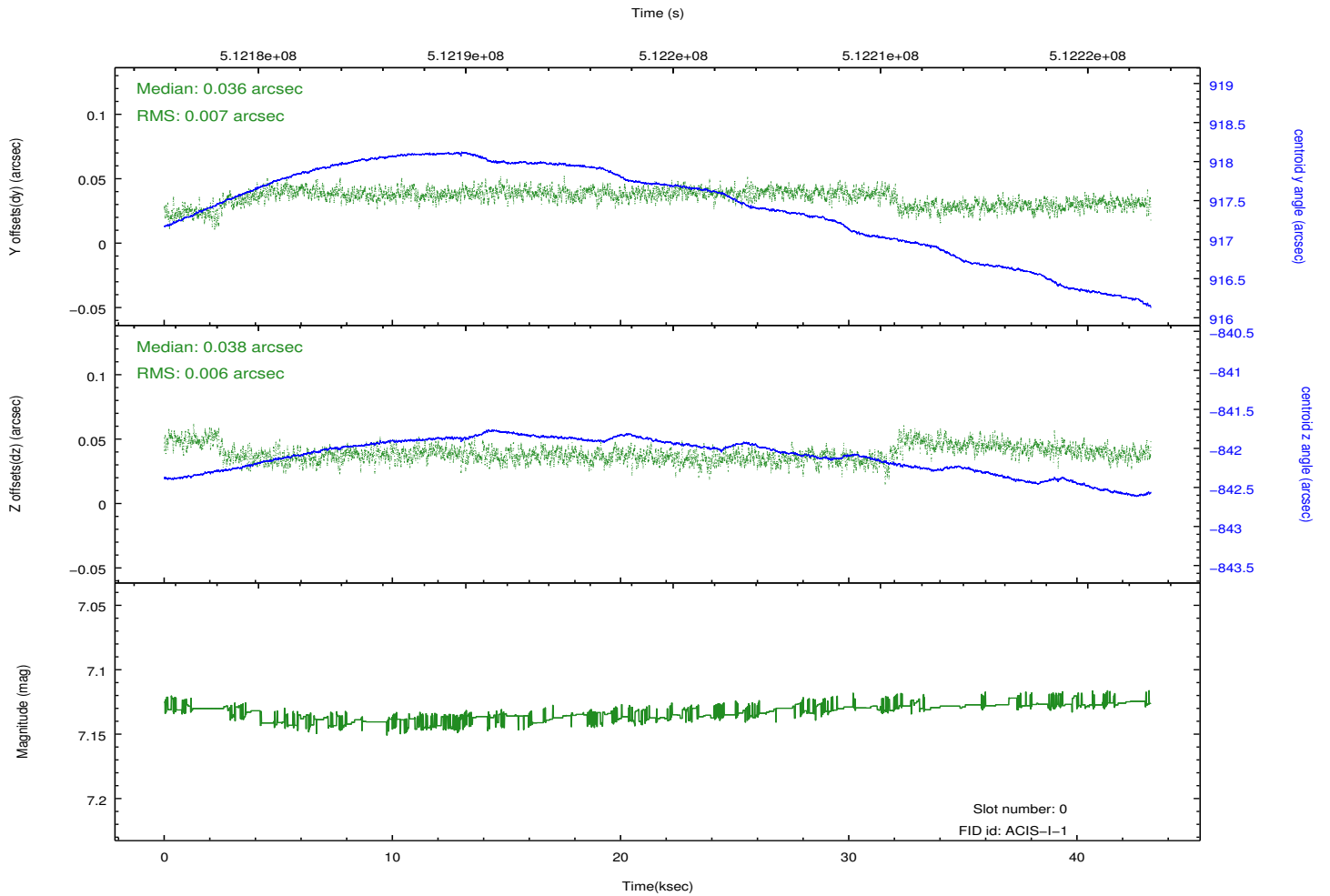
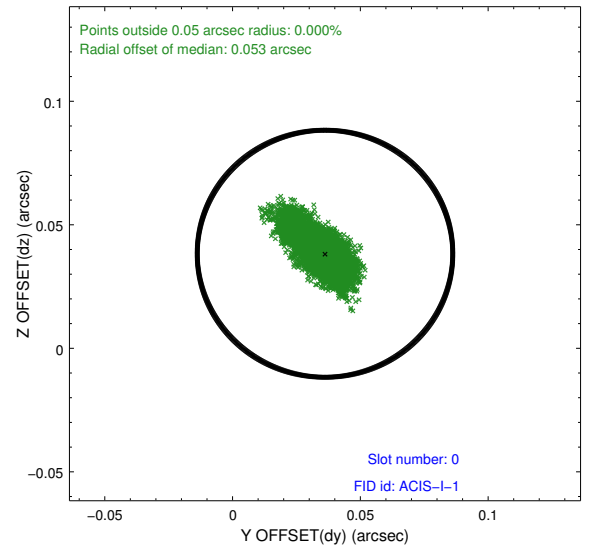
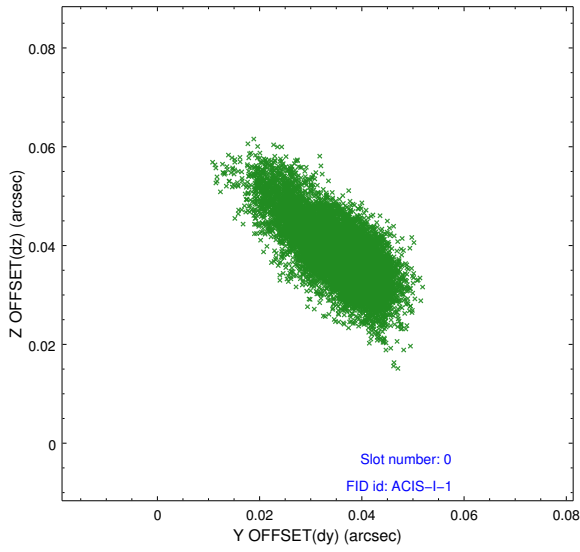


2.4.5 Slot 7

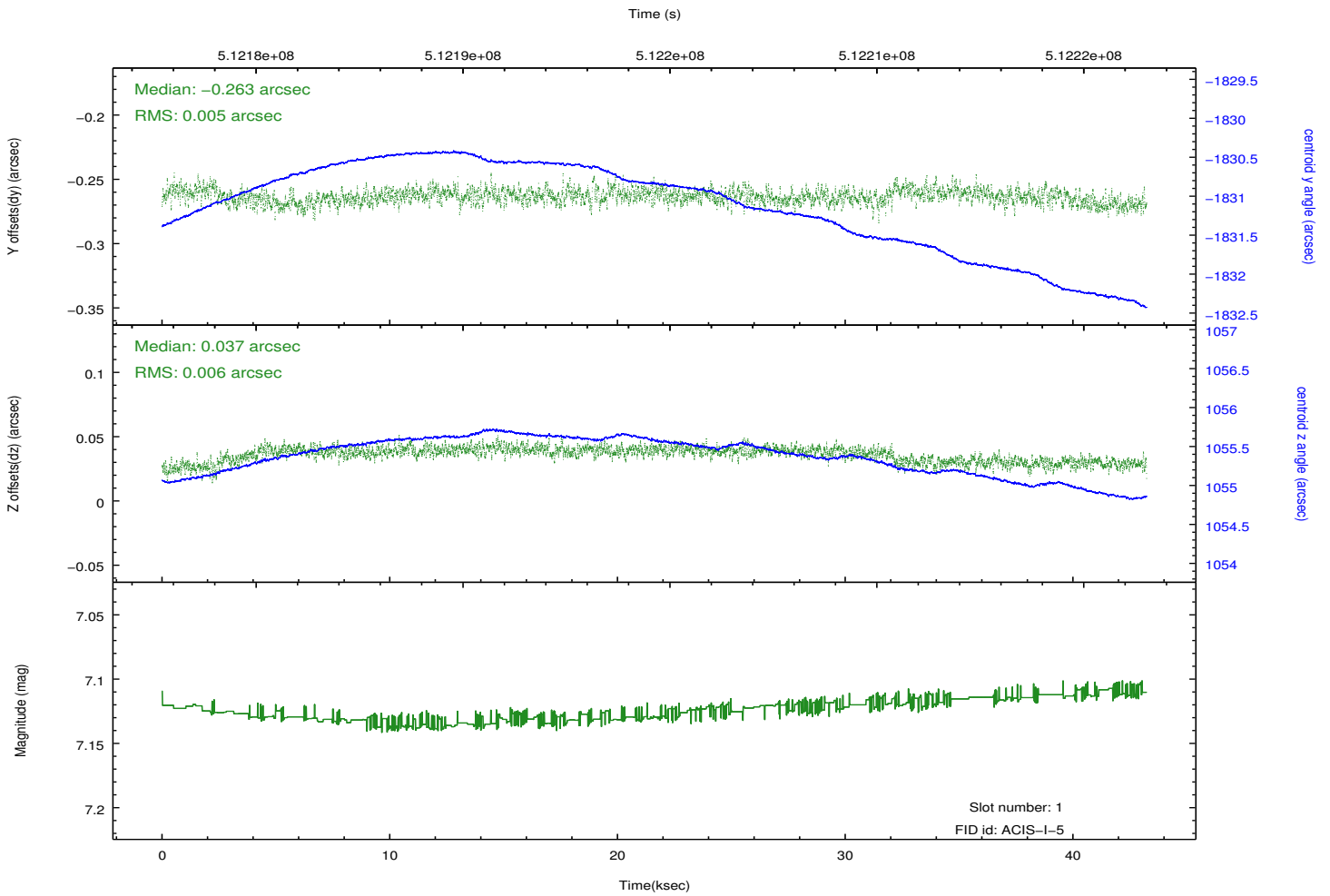
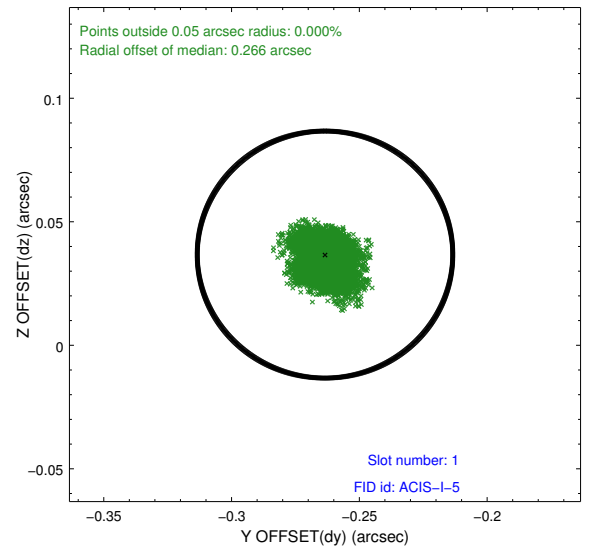
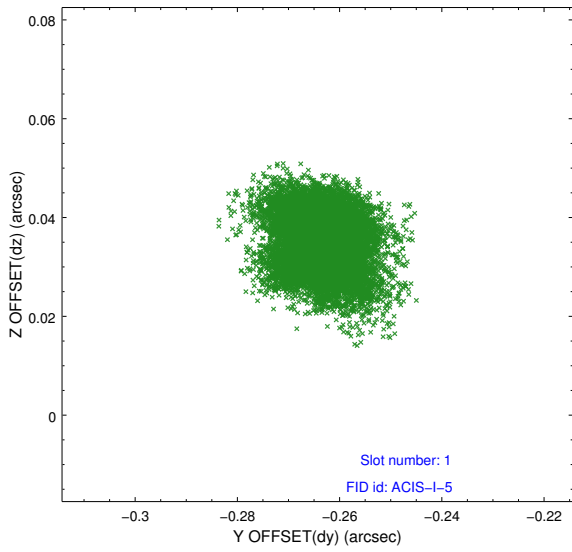


2.5 FID Slots

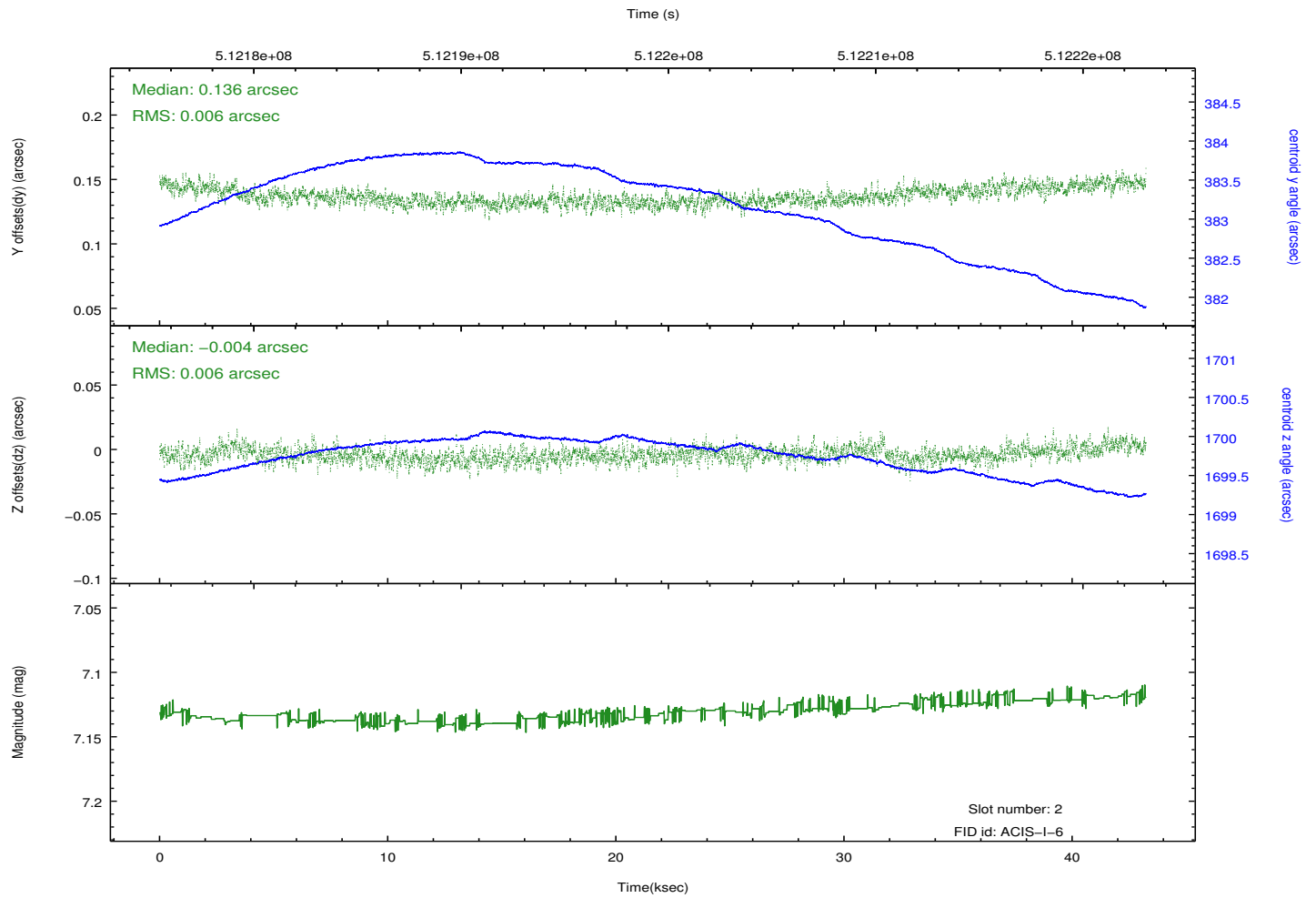
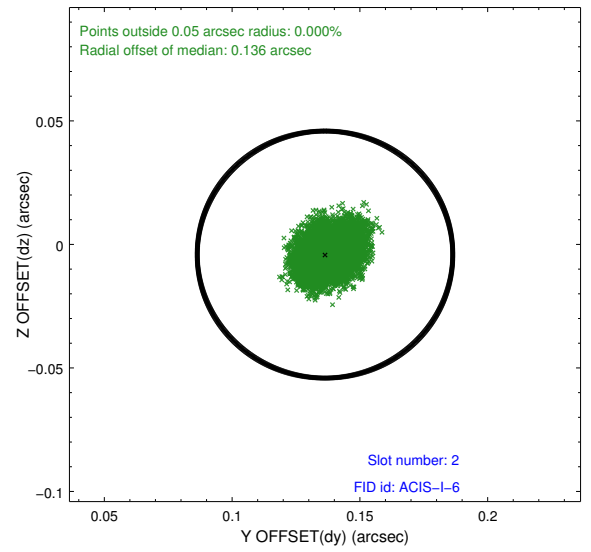
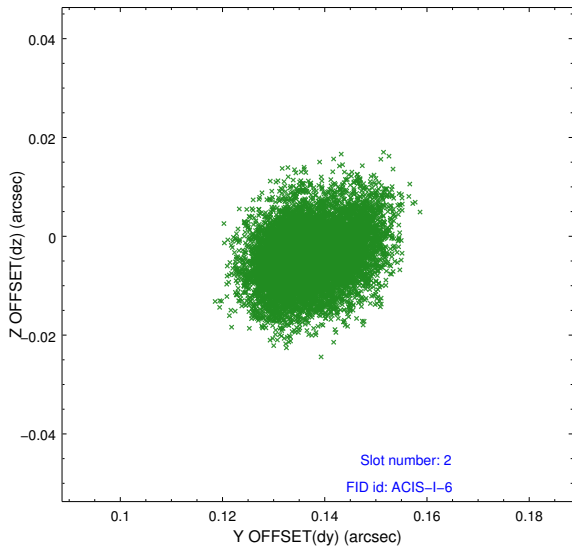
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2014.12.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	43.085860438406

A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.