

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 14673 - L2 Version 2
Chandra X-Ray Center

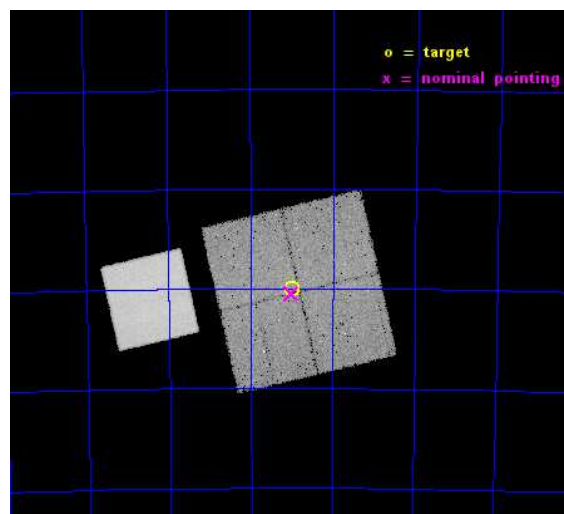
L2 Processing Date : Dec 1 2014

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1 Front

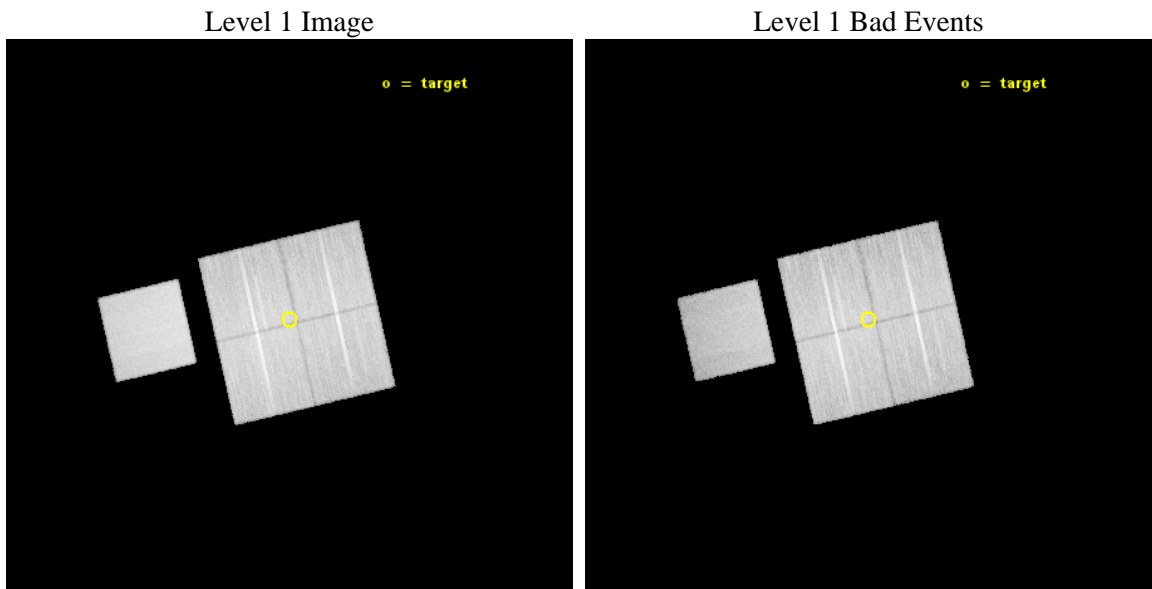
seq_num	401506	Sequence number
obs_id	14673	Observation id
title	The Small Magellanic Cloud - A Case Study of X-ray Populations at Low Metallicity	Proposal title
observer	Dr Andreas Zezas	Principal investigator
object	Deep Field 10	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	10.25	Observer's specified target RA [deg]
dec_targ	-73.333333	Observer's specified target Dec [deg]
ra_nom	10.252068711801	Nominal RA [deg]
dec_nom	-73.341401700103	Nominal Dec [deg]
roll_nom	256.99780613579	Nominal Roll [deg]
revision	2	Processing version of data
ontime	45362.218398213	Sum of GTIs [s]
livetime	44769.527619661	Livetime [s]
ontime0	45359.077378154	Sum of GTIs [s]
ontime1	45359.077378154	Sum of GTIs [s]
ontime2	45368.500348926	Sum of GTIs [s]
ontime3	45362.218398213	Sum of GTIs [s]
ontime7	45368.500348926	Sum of GTIs [s]
l2events	210820	Number of level 2 events



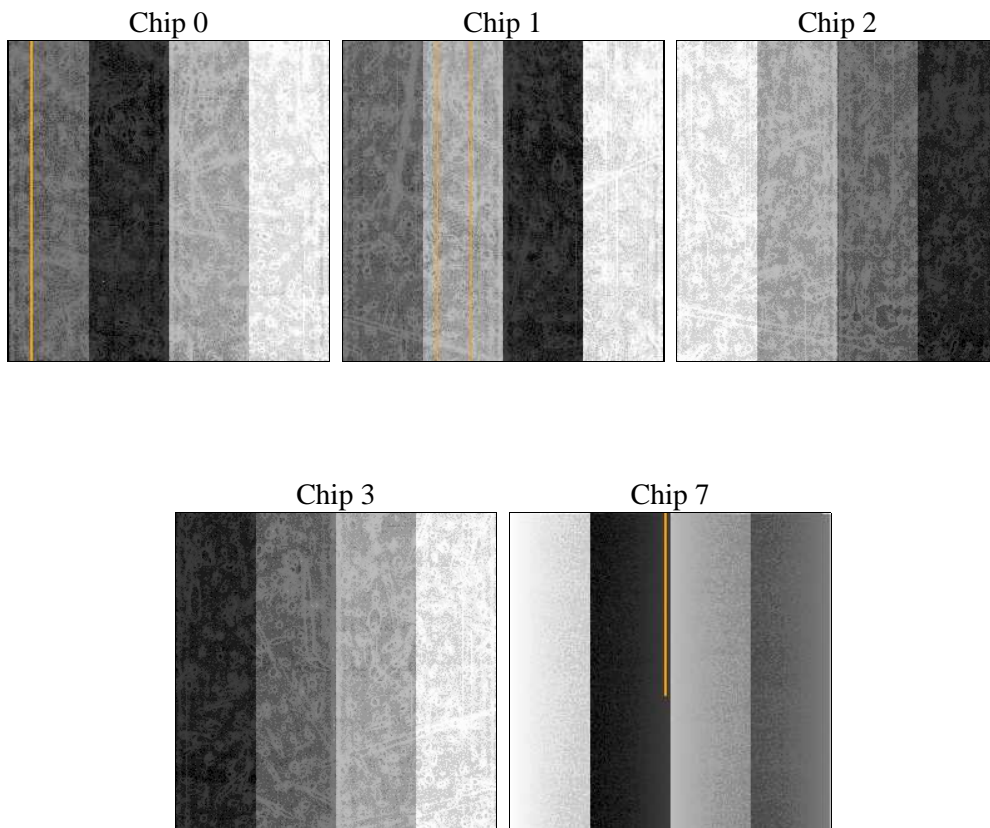
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	45300.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	45362.218398213	Sum of GTIs [s]
caldbver	4.6.4	 	ontime0	45359.077378154	Sum of GTIs [s]
date	2014-12-01T04:01:38	Date and time of file creation	ontime1	45359.077378154	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	45368.500348926	Sum of GTIs [s]
			ontime3	45362.218398213	Sum of GTIs [s]
			ontime7	45368.500348926	Sum of GTIs [s]
			l1events	1140274	Number of level 1 events

2.1.4 Events

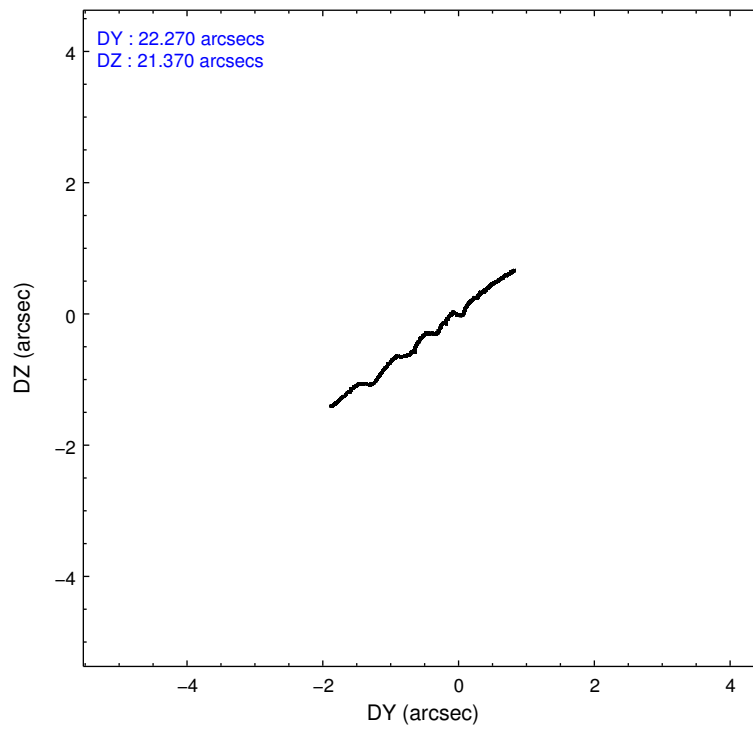
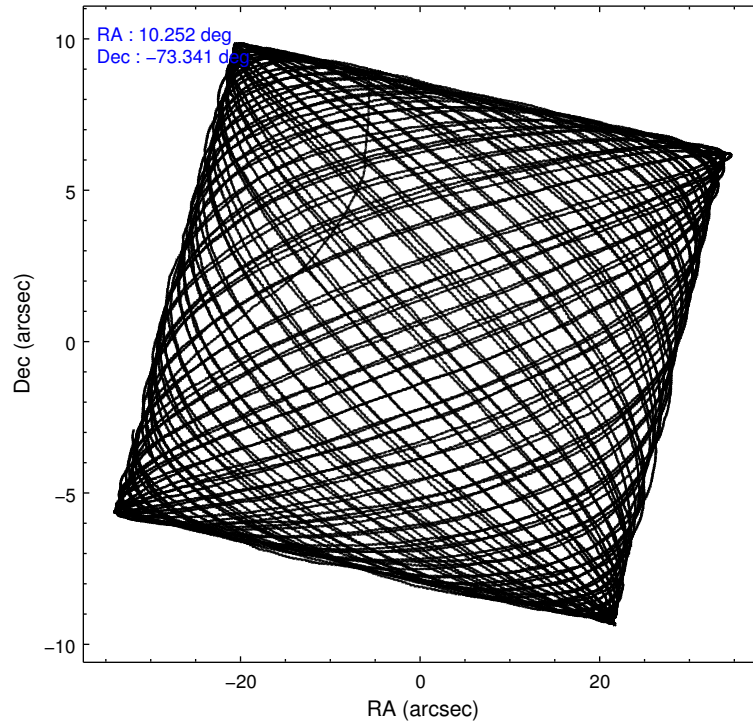
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	208053	208992	234217	223253	265759
rejected events	180345	181327	206651	197978	139090
rejected %	86%	86%	88%	88%	52%

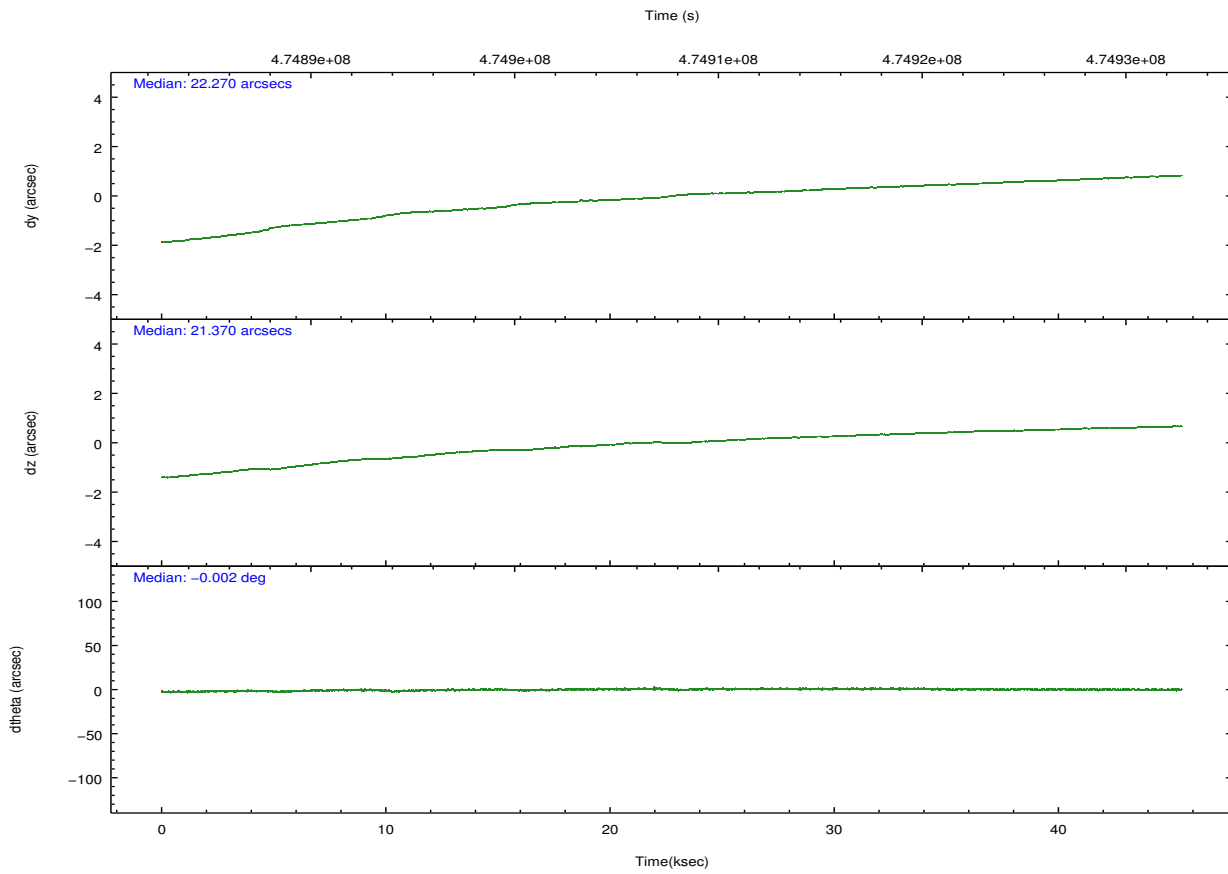
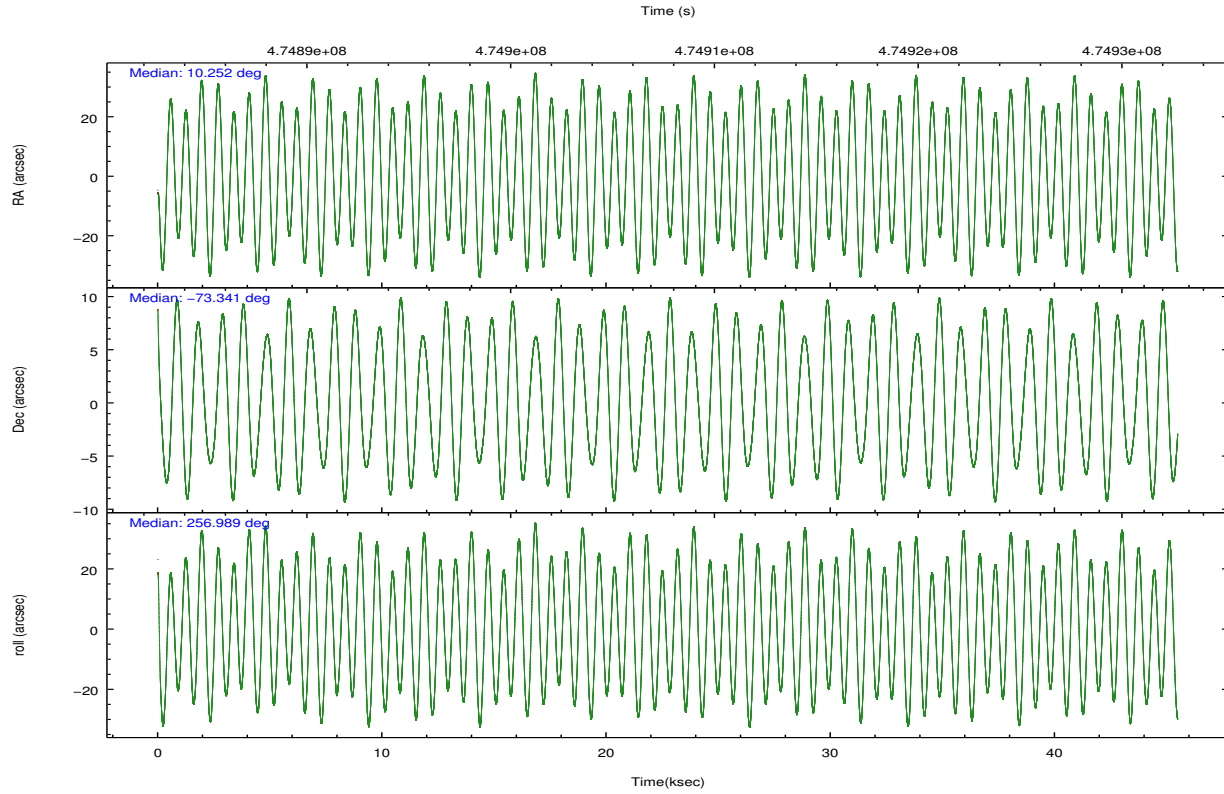
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	10420	9617	10706	9347	12734
	5%	4%	4%	4%	4%
grade 1 events	128	116	131	136	403
	0%	0%	0%	0%	0%
grade 2 events	7026	6555	6805	5841	27598
	3%	3%	2%	2%	10%
grade 3 events	2654	2766	2524	2600	11193
	1%	1%	1%	1%	4%
grade 4 events	2512	2832	2785	2615	10971
	1%	1%	1%	1%	4%
grade 5 events	8621	9830	8189	10120	27914
	4%	4%	3%	4%	10%
grade 6 events	5100	5898	4749	4877	64189
	2%	2%	2%	2%	24%
grade 7 events	171592	171378	198328	187717	110757
	82%	82%	84%	84%	41%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01237	ACIS-01237	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	10.223750	10.25206871180053	Subarray requested	NONE	NONE
[deg] Pointing Dec	-73.315122	-73.34140170010272	Alternating exposures requested	N	N
[deg] Pointing Roll	256.761980	256.9978061357932	[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)	474885159.184000	474883396.68449			
Observation start date	2013-01-18T08:31:32	2013-01-18T08:03:16			
[s] Observation end time (MET)	474930459.184000	474930796.78704			
Observation end date	2013-01-18T21:06:32	2013-01-18T21:13:16			
Read mode	TIMED	TIMED			

2.3 Aspect



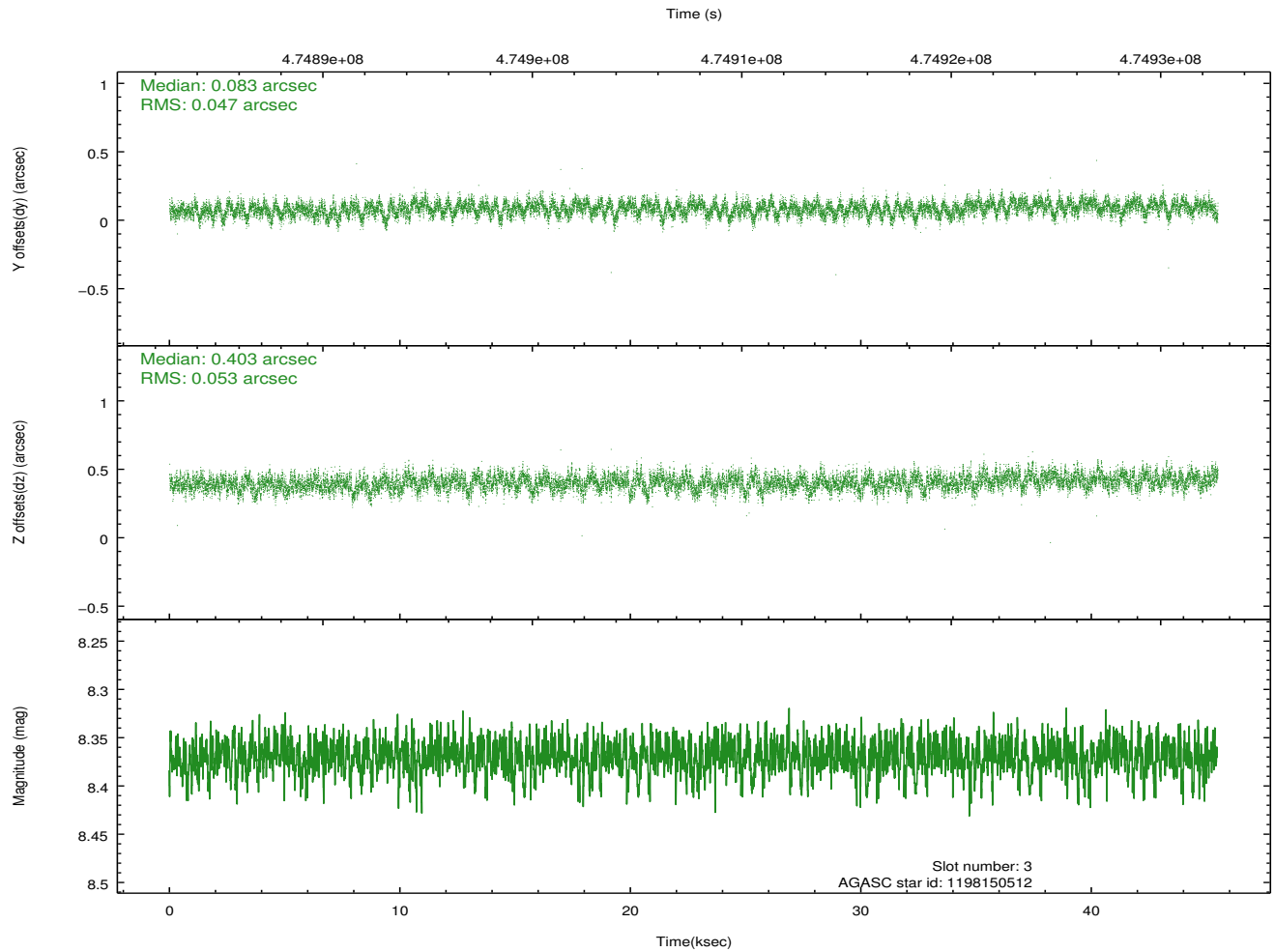
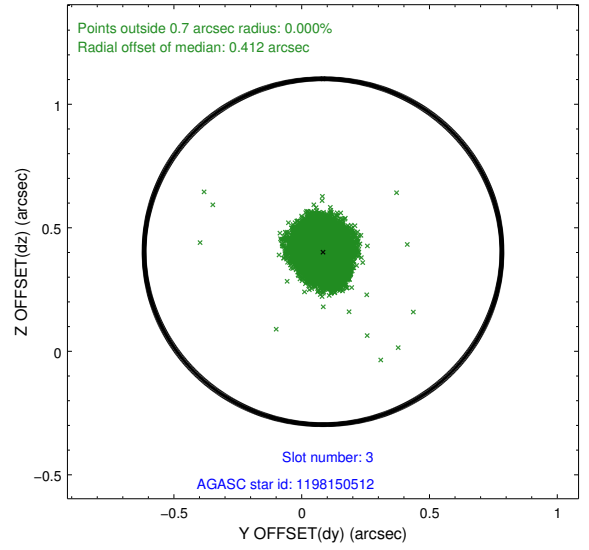
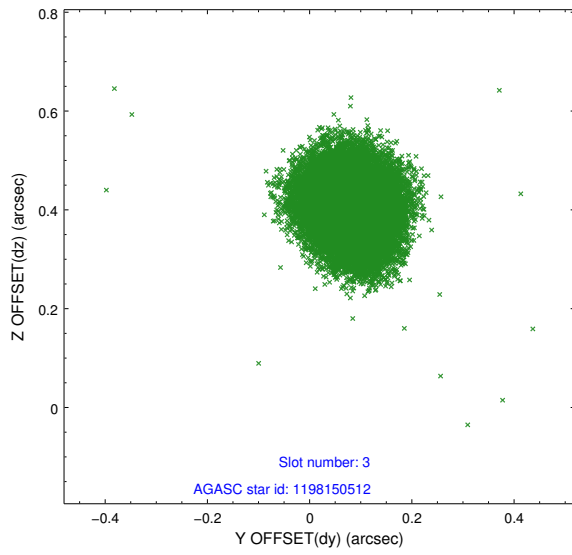


Slot Statistics

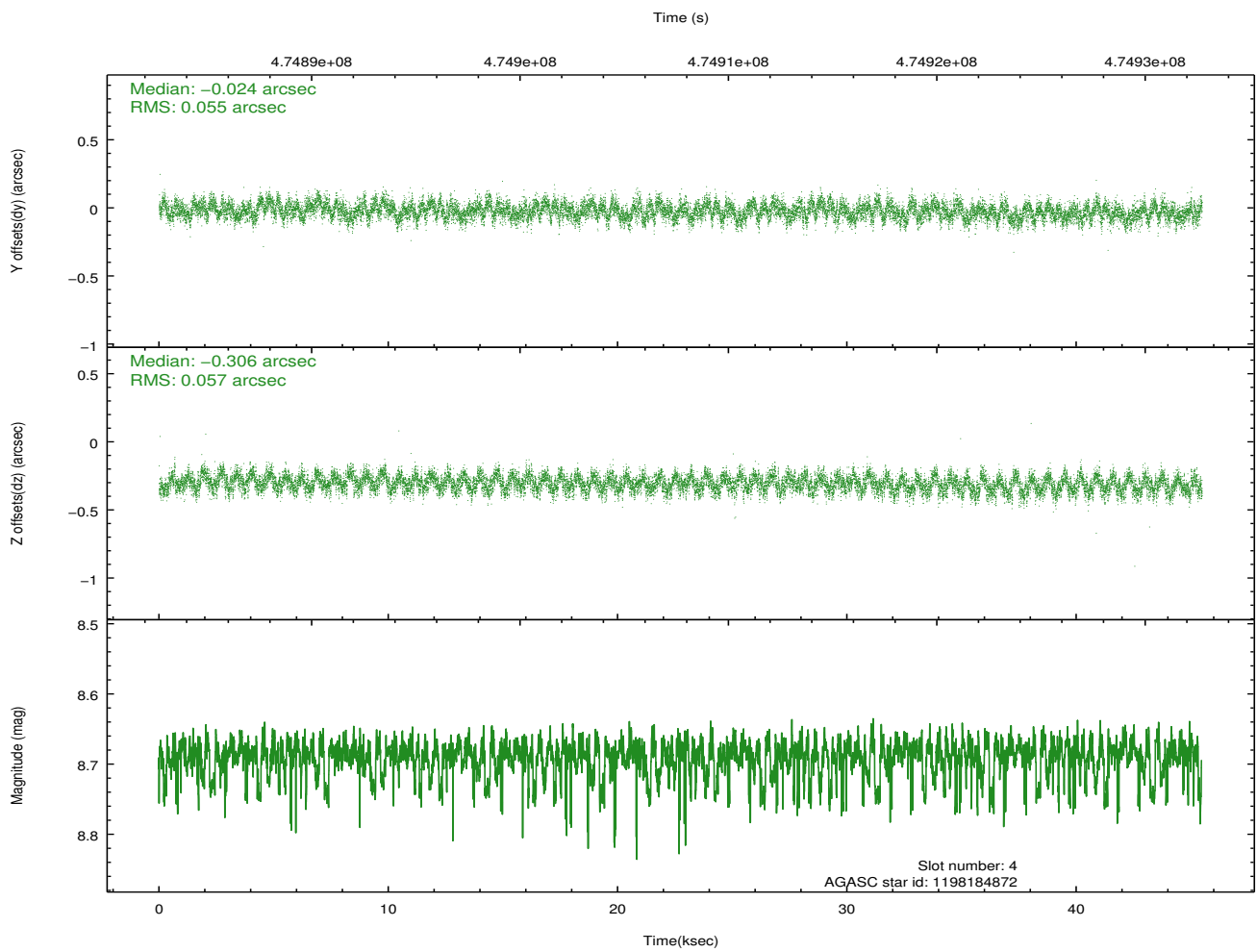
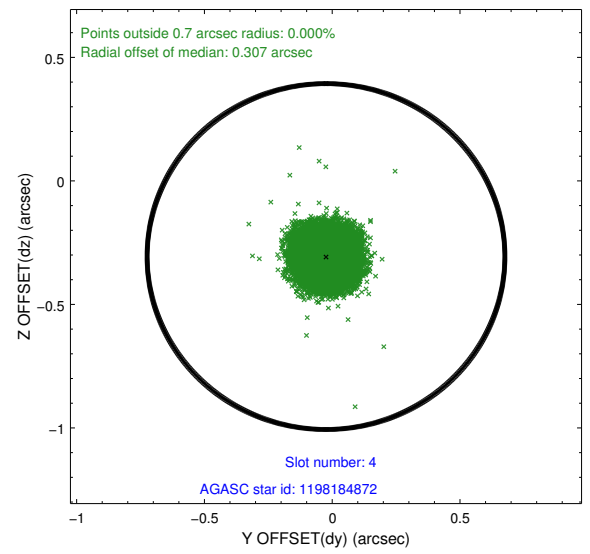
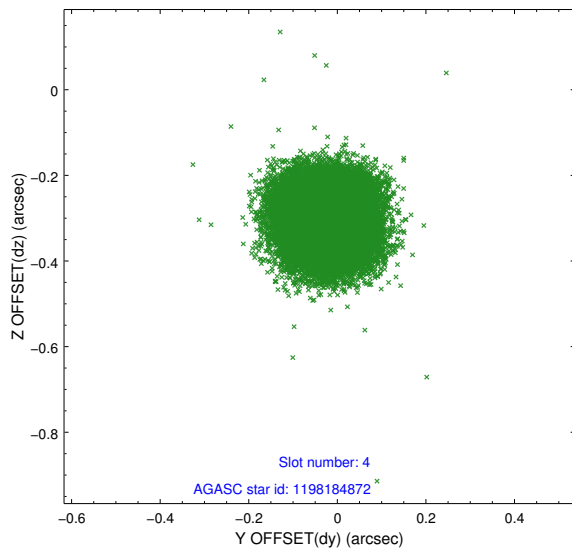
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.06	11094	0.063	-0.006	0.019	0.054	0.000000	0.000000	917.24	-845.02
1	FID		ACIS-I-5	7.05	11094	-0.239	0.063	0.021	0.042	0.000000	0.000000	-1831.17	1052.52
2	FID		ACIS-I-6	7.06	11094	0.088	0.020	0.016	0.027	0.000000	0.000000	382.81	1696.99
3	GUIDE	used	1198150512	8.37	22181	0.083	0.403	0.076	0.121	9.044301	-72.846944	-1341.21	-1601.65
4	GUIDE	used	1198184872	8.69	22094	-0.024	-0.306	0.085	0.132	10.002911	-73.761835	1617.04	152.34
5	GUIDE	used	1198192088	9.21	21999	-0.012	0.141	0.120	0.188	11.250657	-73.229216	-536.07	969.86
6	GUIDE	used	1198003120	9.34	22161	0.293	-0.067	0.155	0.266	7.373325	-73.781725	2359.35	-2388.34
7	GUIDE	used	1198191824	9.32	22079	-0.319	-0.164	0.148	0.231	11.519918	-73.478175	281.31	1429.50

2.4 Star Slots

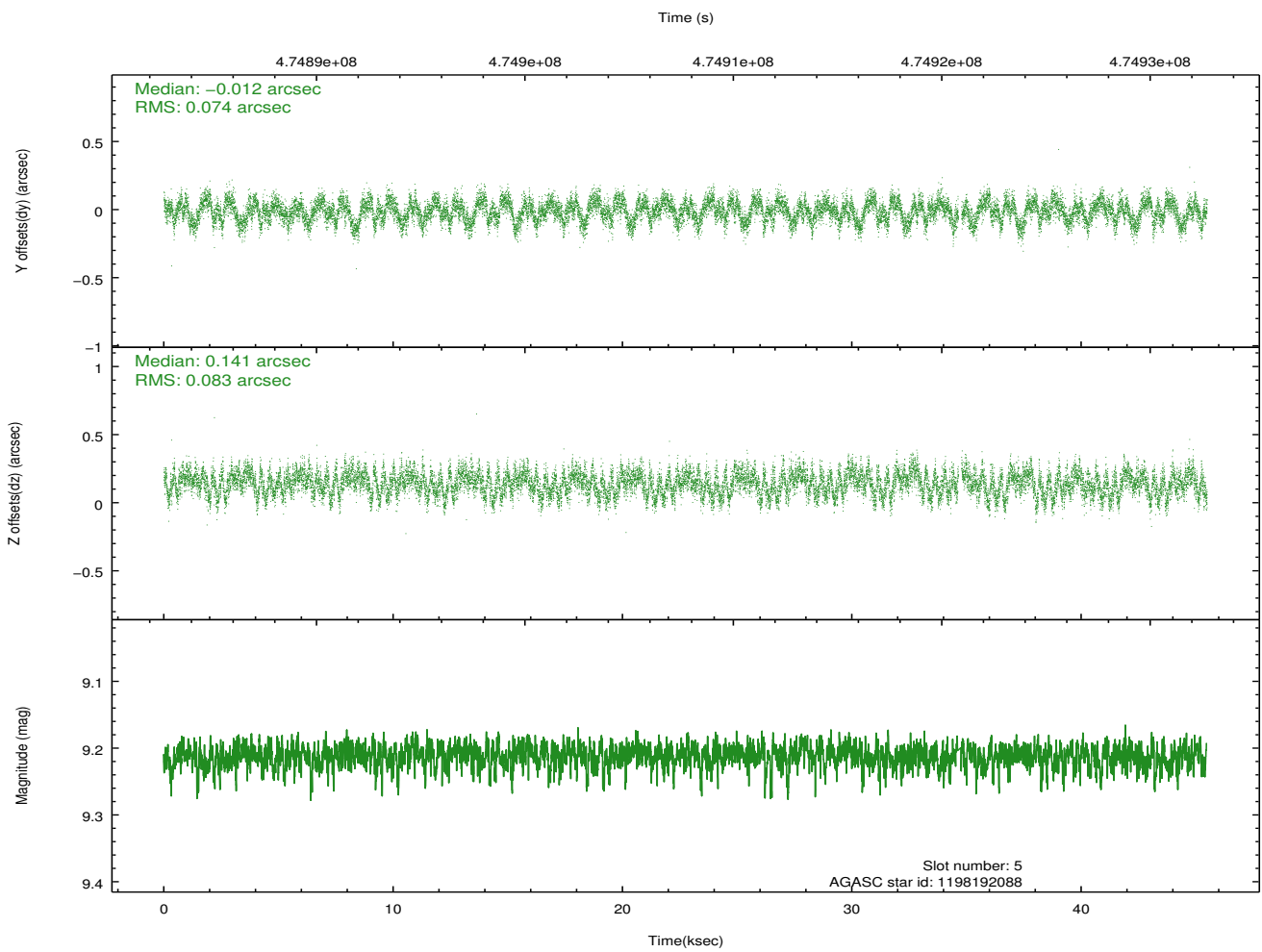
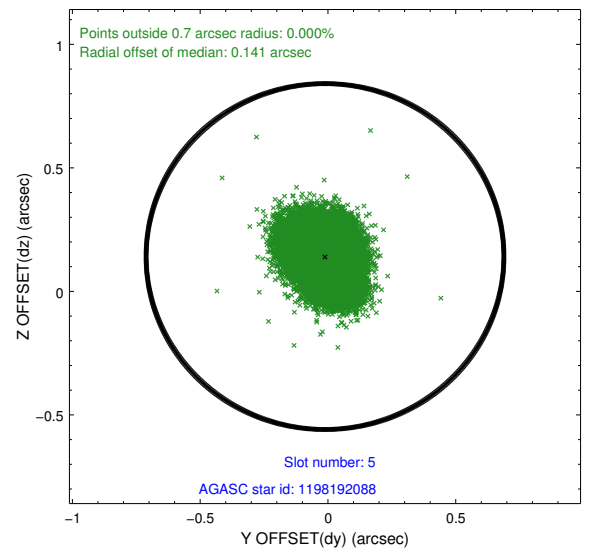
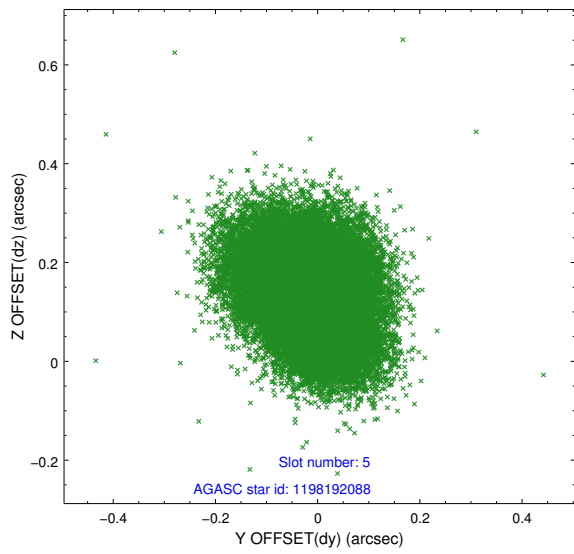
2.4.1 Slot 3



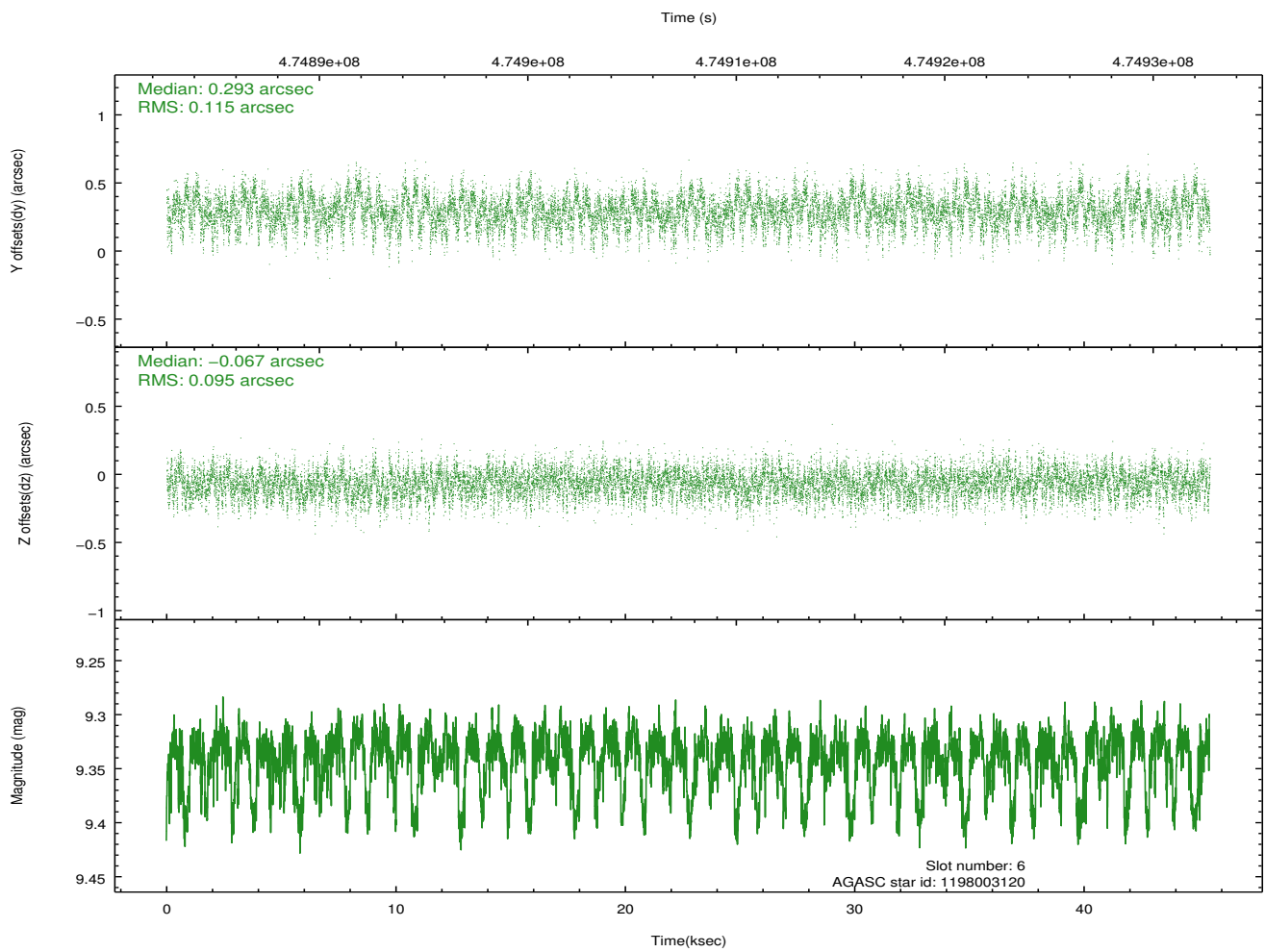
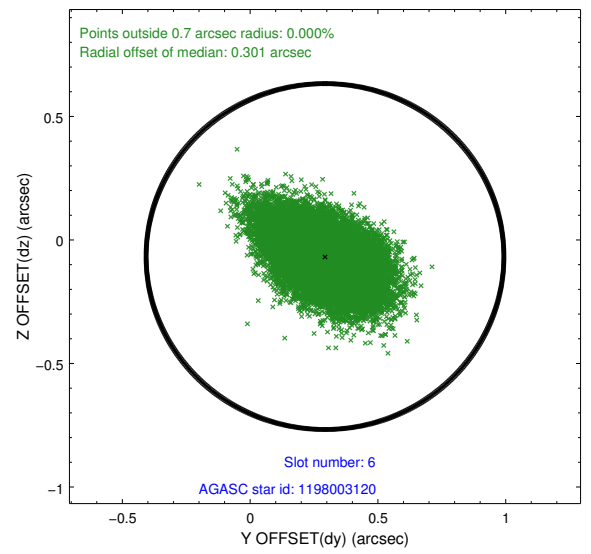
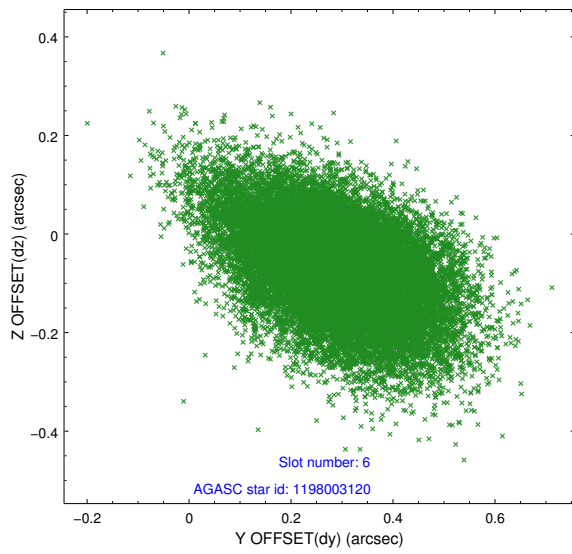
2.4.2 Slot 4



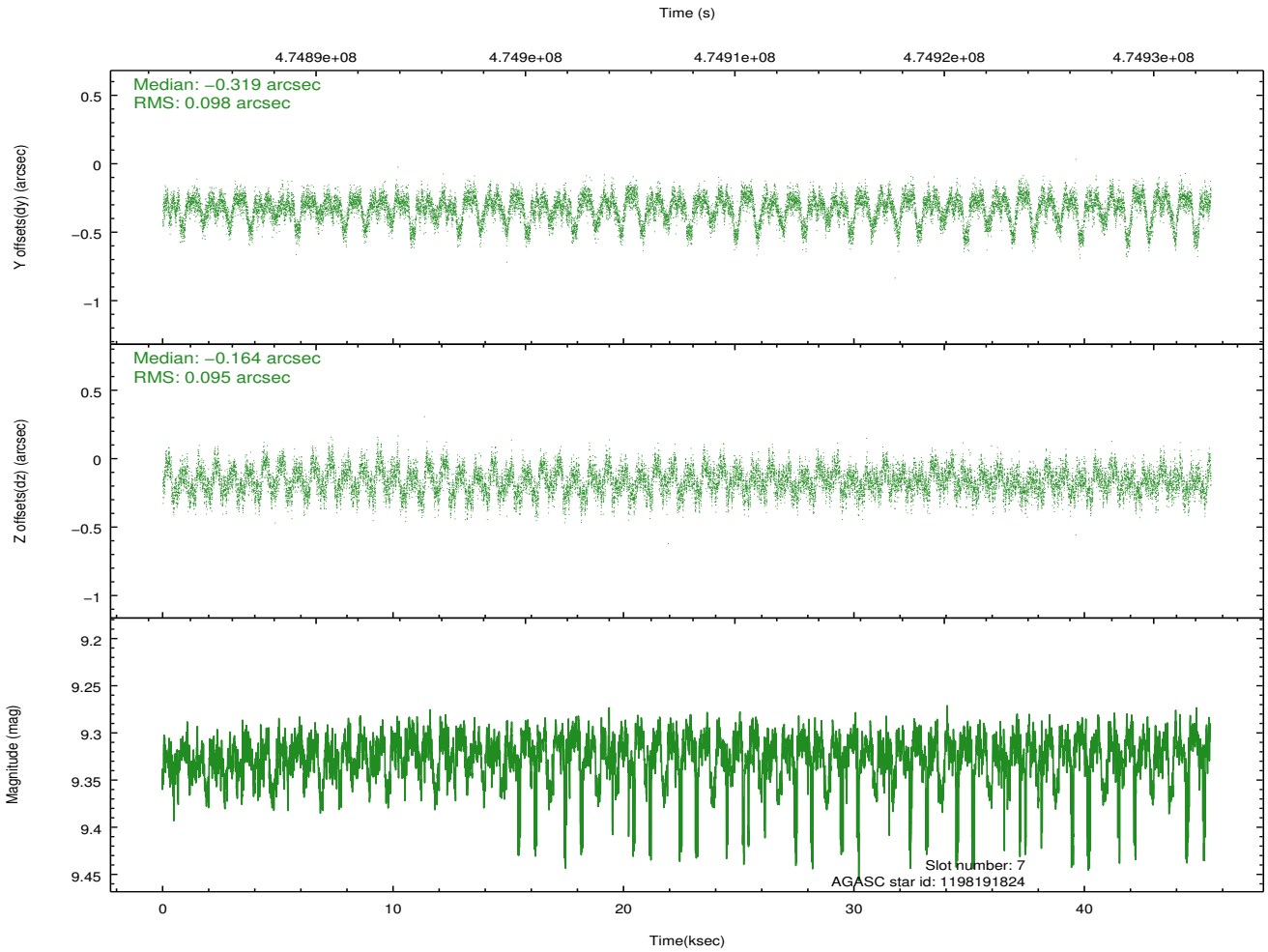
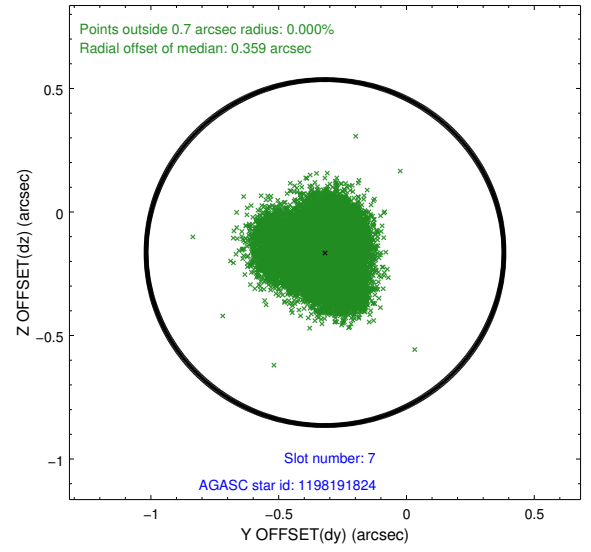
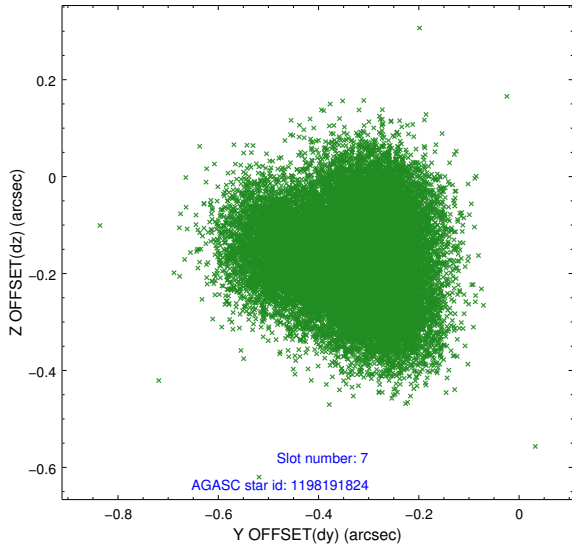
2.4.3 Slot 5



2.4.4 Slot 6

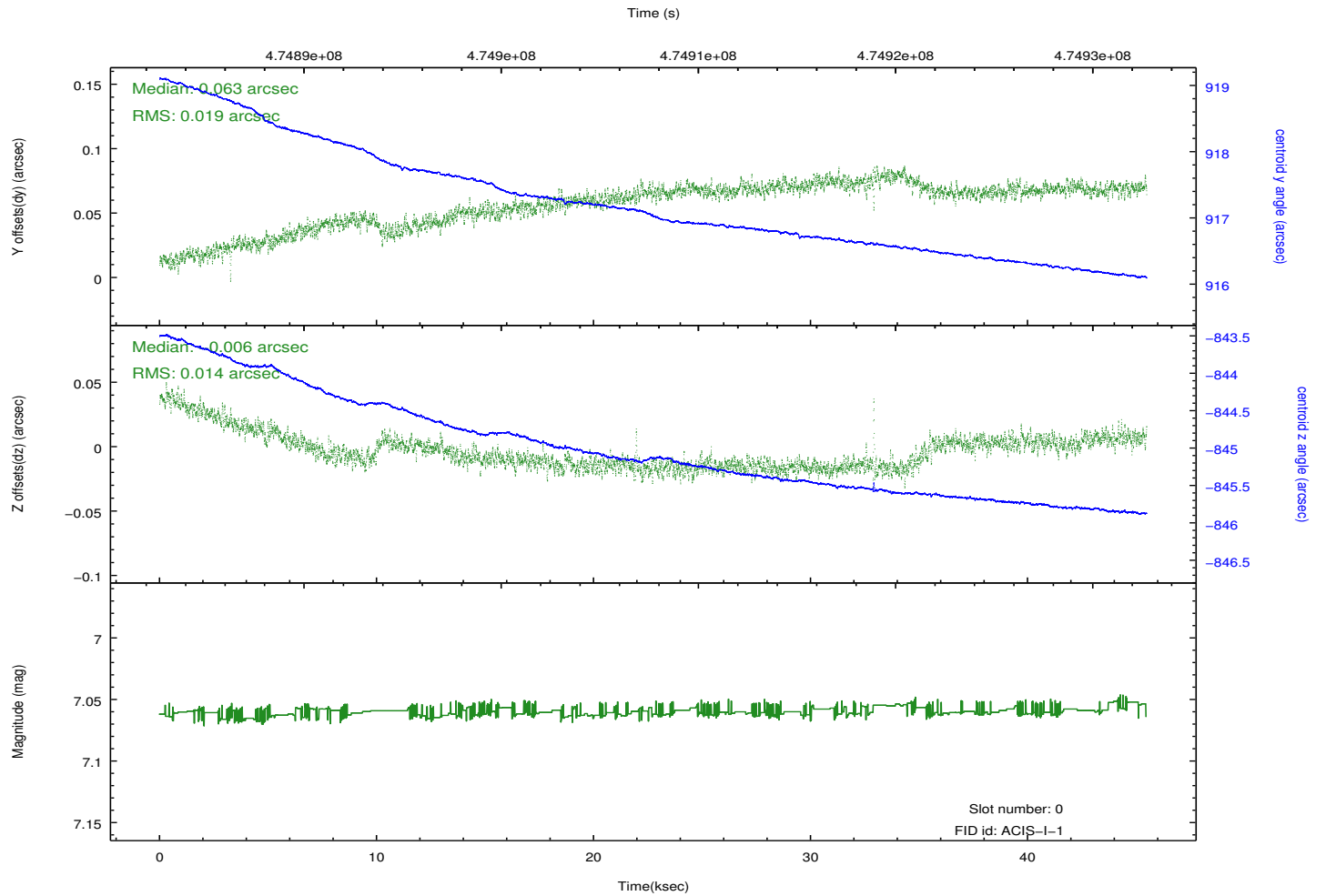
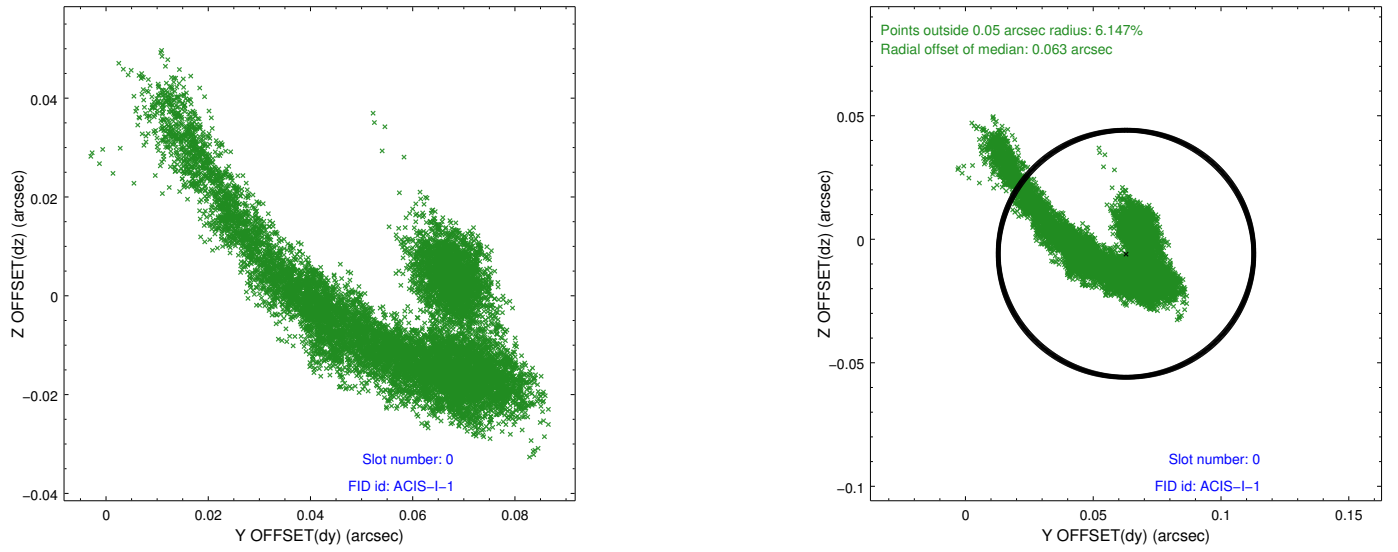


2.4.5 Slot 7

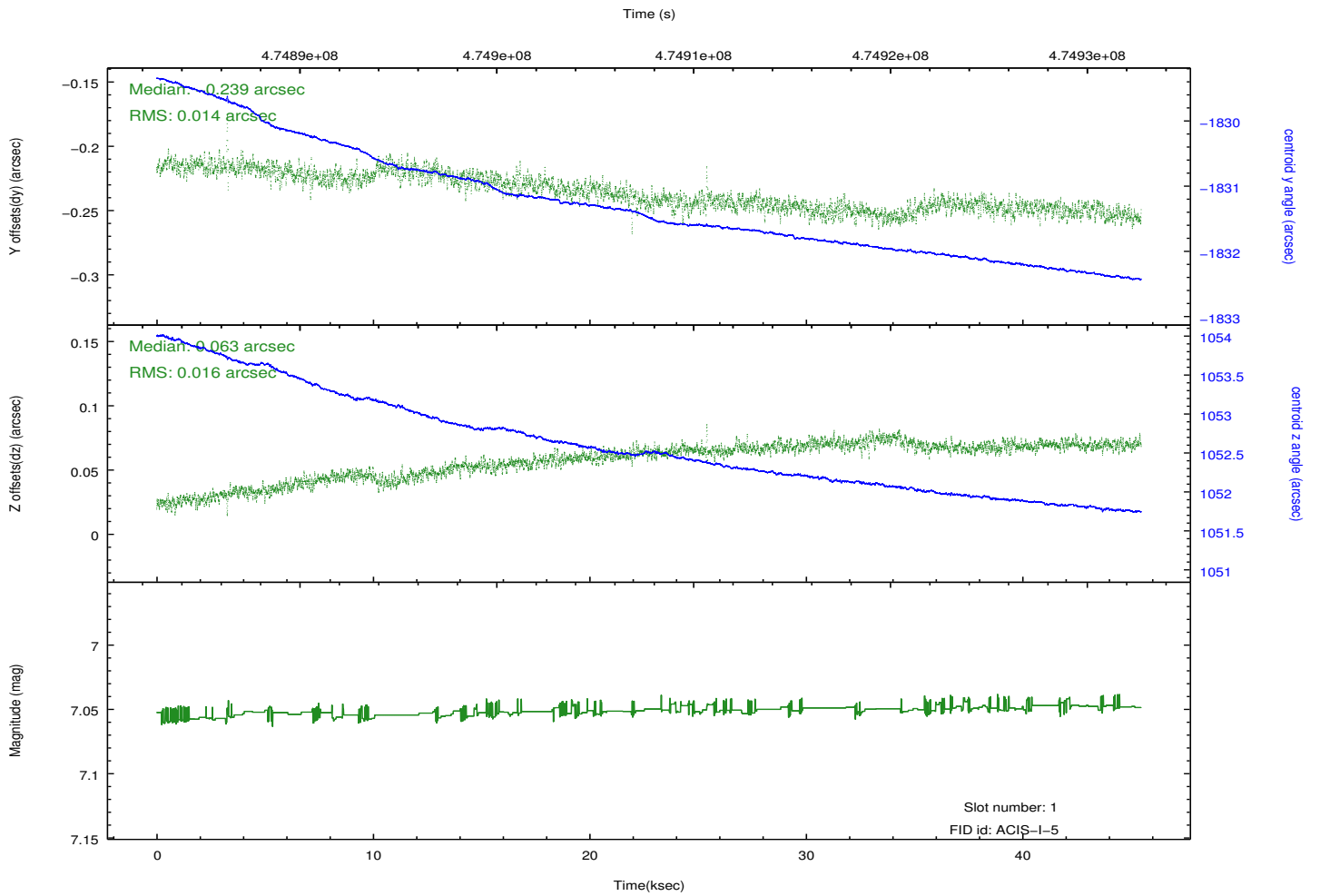
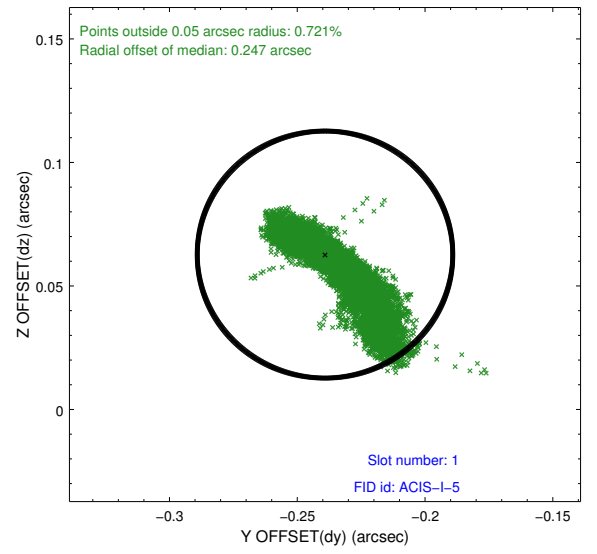
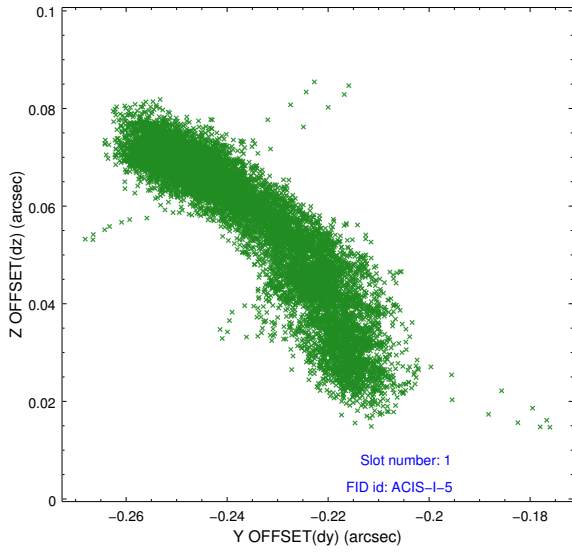


2.5 FID Slots

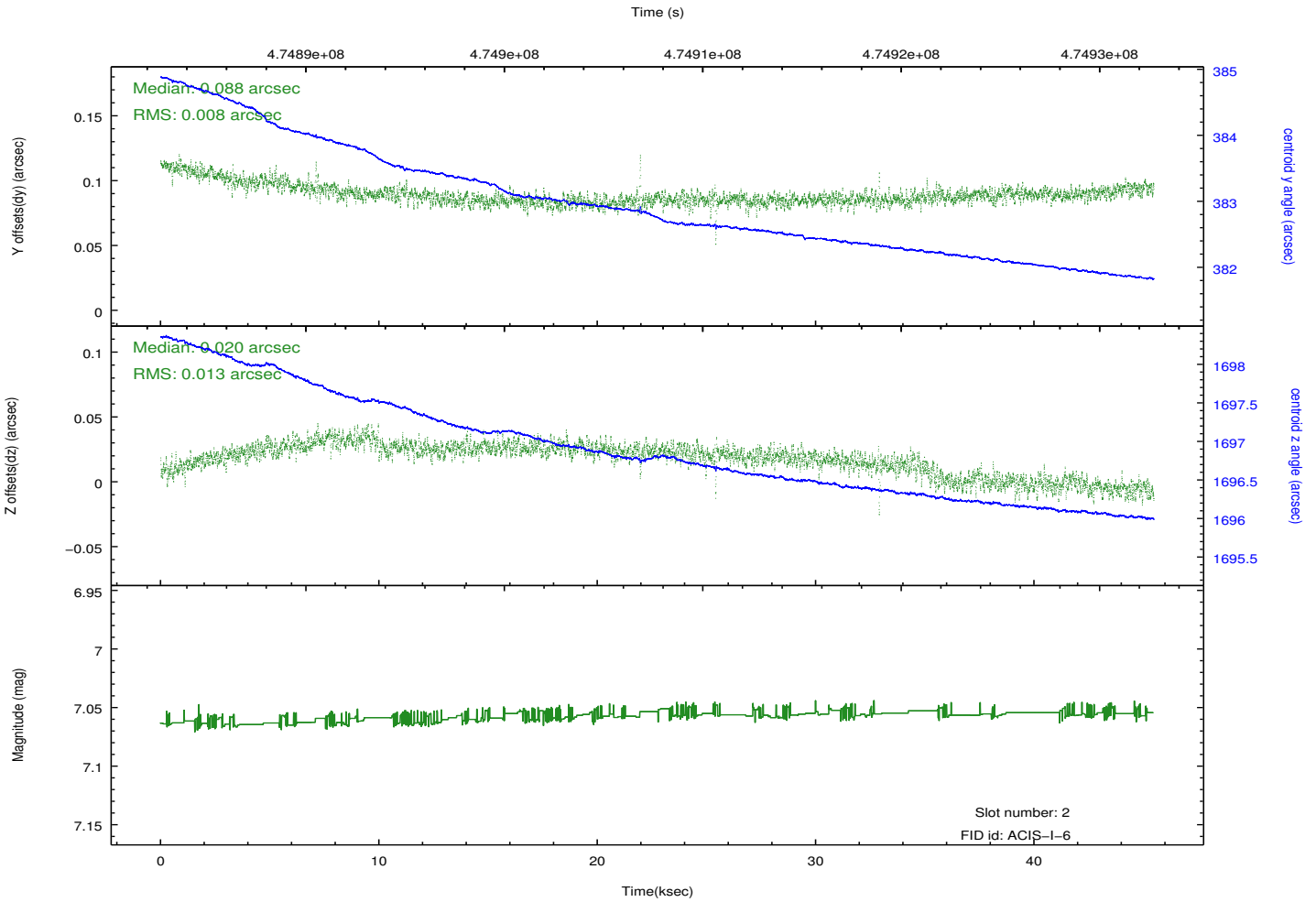
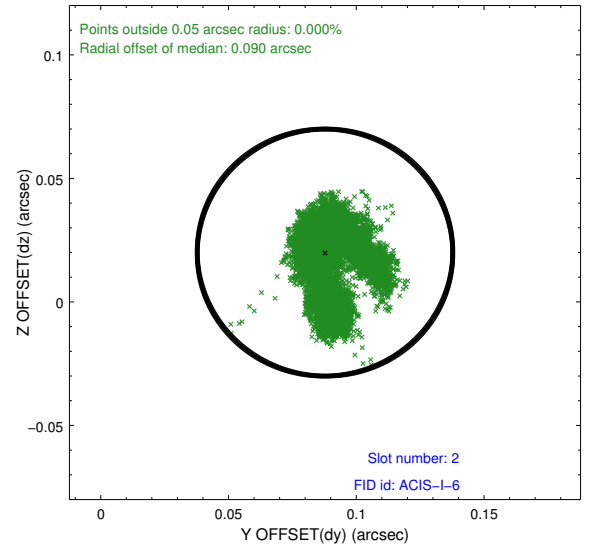
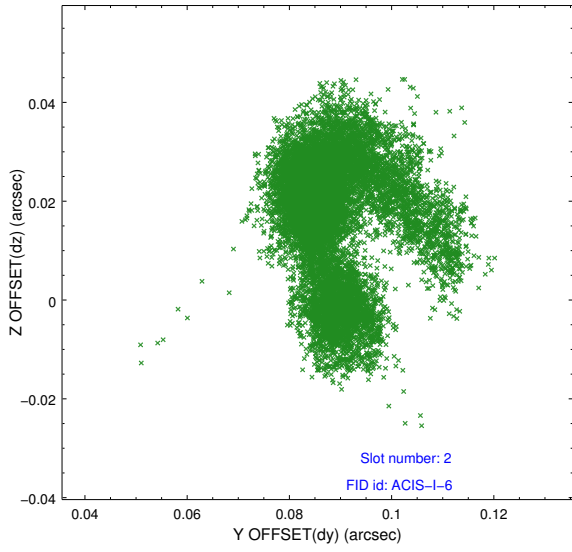
2.5.1 Slot 0



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)	2014.12.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	45.362218398213

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.