

V&V Reference Report

L2 ASCDS Version : 10

Observation 14895 - L2 Version 2
Chandra X-Ray Center

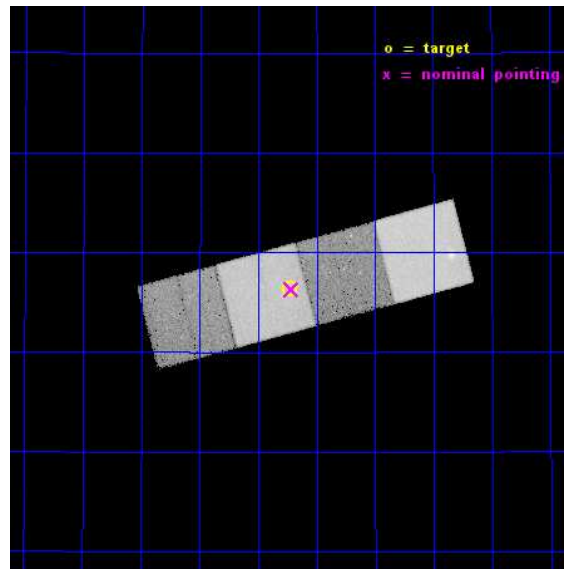
L2 Processing Date : Dec 6 2014

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1 Front

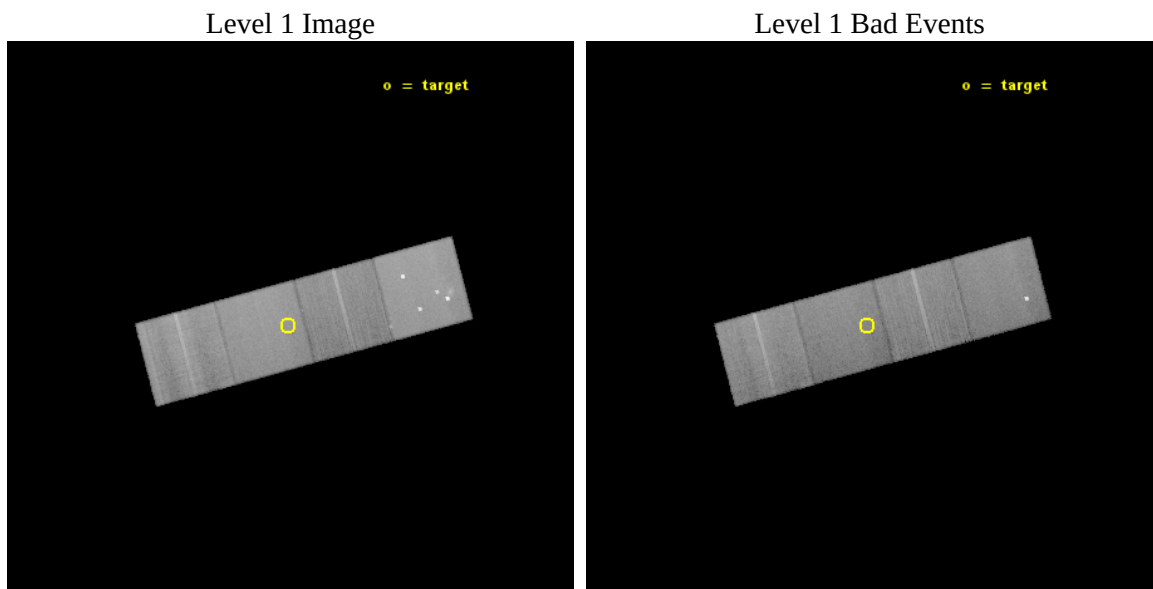
seq_num	502019	Sequence number
obs_id	14895	Observation id
title	X-Ray Signatures of Late-Time Circumstellar Interaction in Type II _n Supernovae	Proposal title
observer	Ori Fox	Principal investigator
object	SN 2008en	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	13.806667	Observer's specified target RA [deg]
dec_targ	35.440611	Observer's specified target Dec [deg]
ra_nom	13.803929444158	Nominal RA [deg]
dec_nom	35.438550165238	Nominal Dec [deg]
roll_nom	165.10800811588	Nominal Roll [deg]
revision	2	Processing version of data
ontime	42070.100323558	Sum of GTIs [s]
livetime	41520.423491273	Livetime [s]
ontime5	42070.100323558	Sum of GTIs [s]
ontime6	42066.959313154	Sum of GTIs [s]
ontime7	42070.100323558	Sum of GTIs [s]
ontime8	42070.100323558	Sum of GTIs [s]
l2events	322898	Number of level 2 events



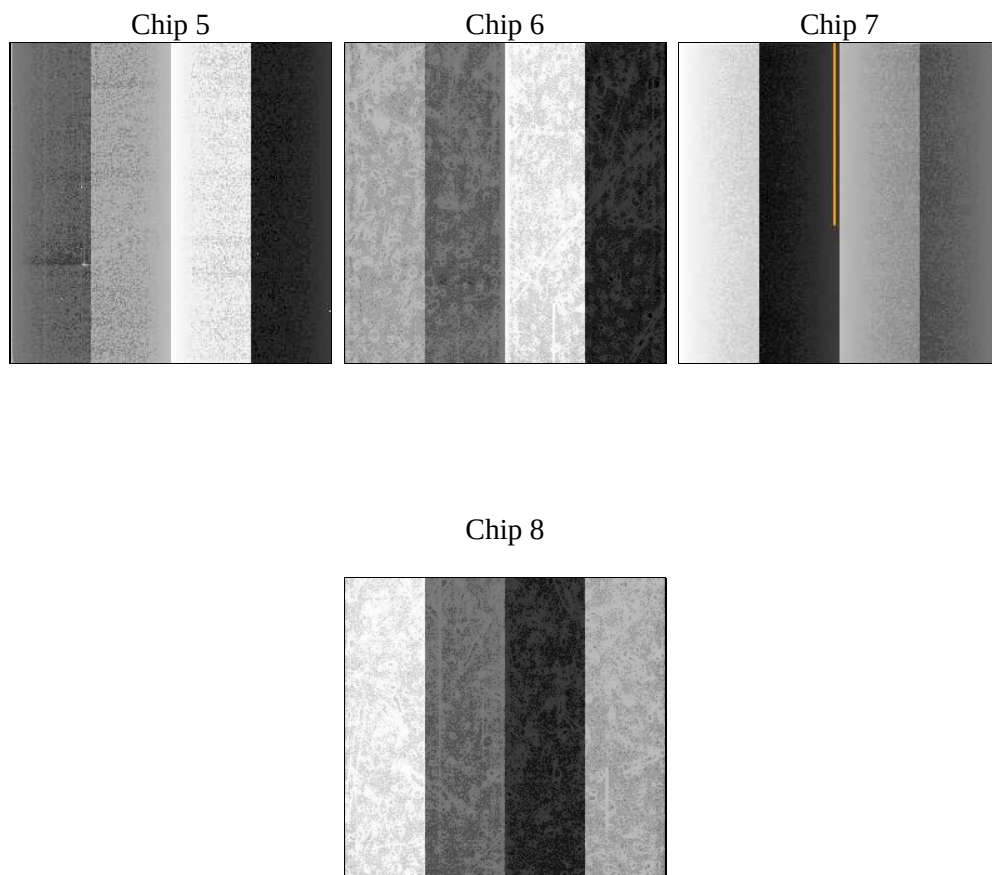
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	42000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	42070.100323558	Sum of GTIs [s]
caldsver	4.6.4	 	ontime5	42070.100323558	Sum of GTIs [s]
date	2014-12-07T00:46:17	Date and time of file creation	ontime6	42066.959313154	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	42070.100323558	Sum of GTIs [s]
			ontime8	42070.100323558	Sum of GTIs [s]
			l1events	1128222	Number of level 1 events

2.1.4 Events

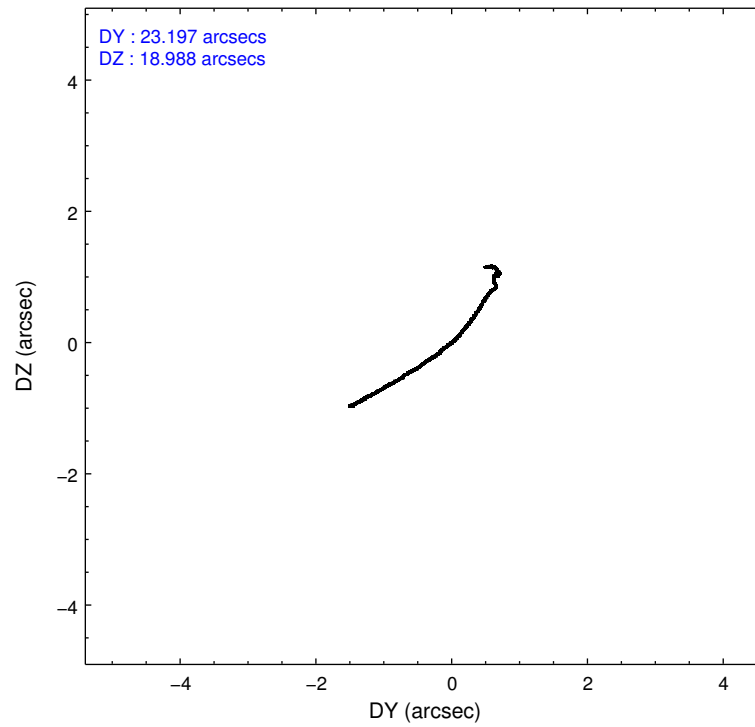
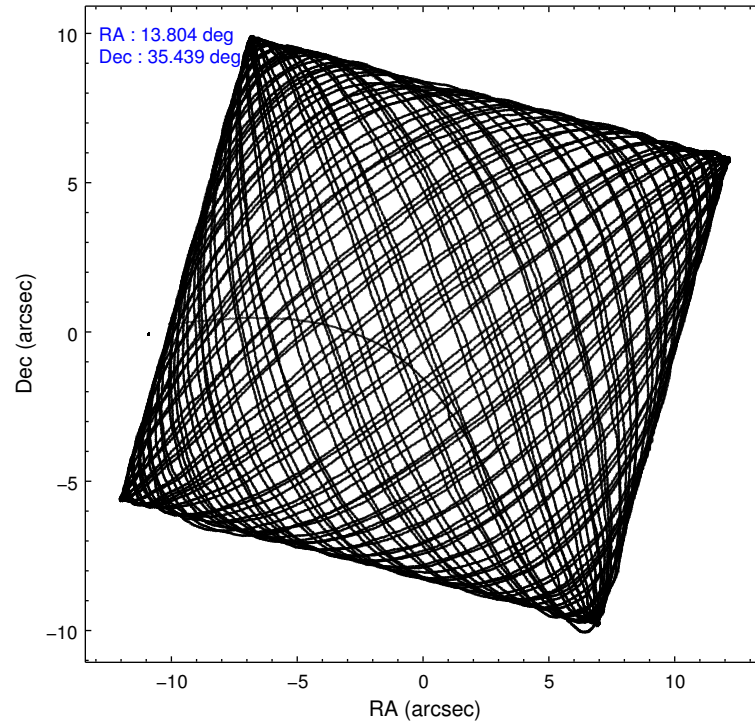
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	371688	204838	280704	270992
rejected events	184356	179415	158180	199579
rejected %	49%	87%	56%	73%

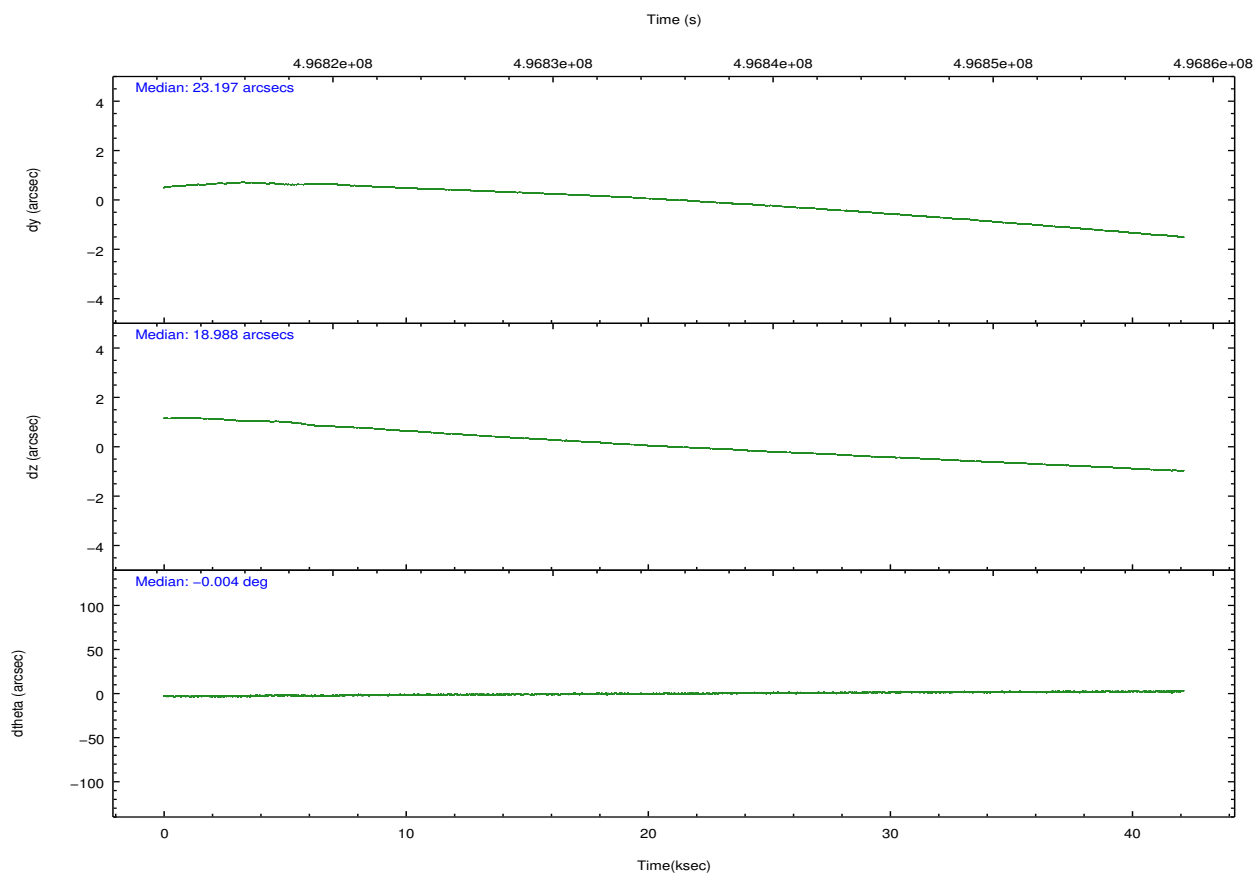
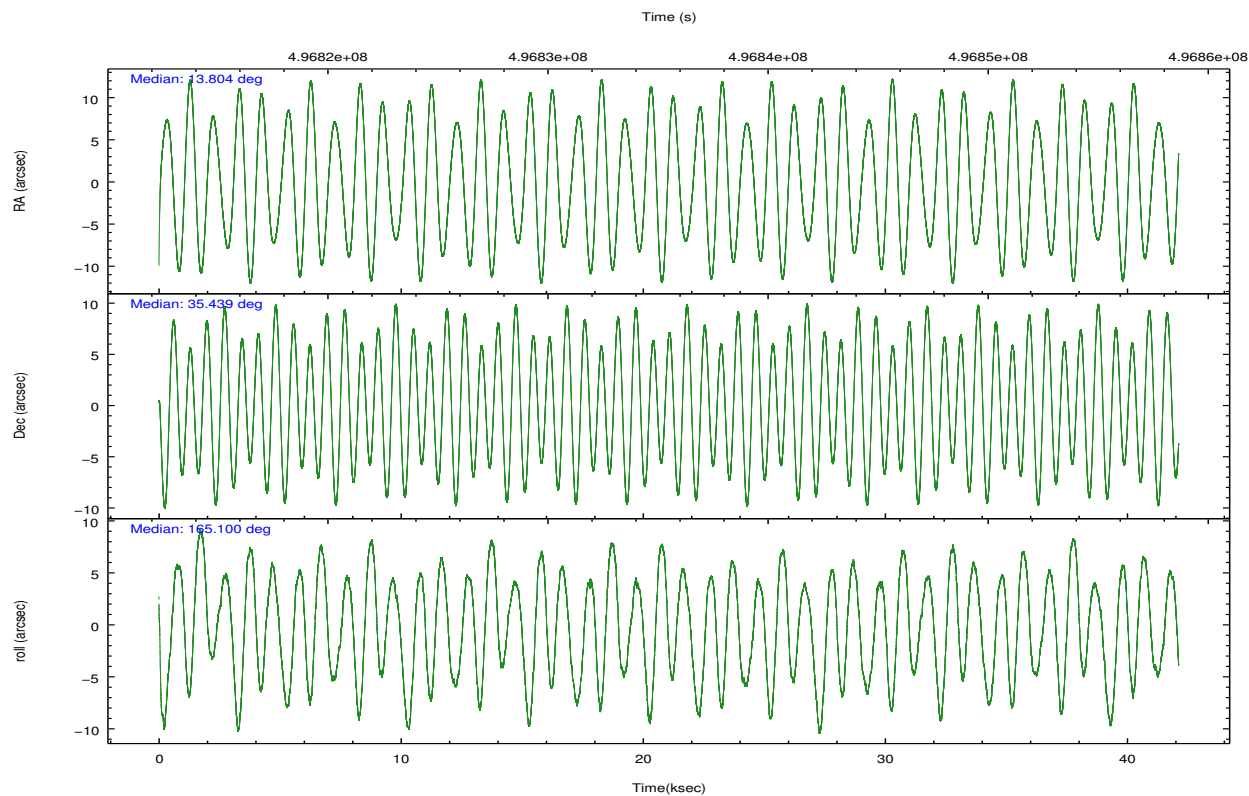
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	33311	8766	10531	20200
	8%	4%	3%	7%
grade 1 events	590	108	345	199
	0%	0%	0%	0%
grade 2 events	53377	5762	24888	17297
	14%	2%	8%	6%
grade 3 events	6052	2489	10498	7197
	1%	1%	3%	2%
grade 4 events	5681	2556	10560	7022
	1%	1%	3%	2%
grade 5 events	26028	10951	28945	15902
	7%	5%	10%	5%
grade 6 events	88933	5853	66070	19700
	23%	2%	23%	7%
grade 7 events	157716	168353	128867	183475
	42%	82%	45%	67%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-5678	ACIS-5678	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	13.836215	13.80392944415793	Subarray requested	NONE	NONE
[deg] Pointing Dec	35.446042	35.4385501652383	Alternating exposures requested	N	N
[deg] Pointing Roll	164.932655	165.1080081158815	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	496814546.184000	496813339.49974			
Observation start date	2013-09-29T04:01:19	2013-09-29T03:42:19			
[s] Observation end time (MET)	496856546.184000	496857623.60216			
Observation end date	2013-09-29T15:41:19	2013-09-29T16:00:23			
Read mode	TIMED	TIMED			

2.3 Aspect



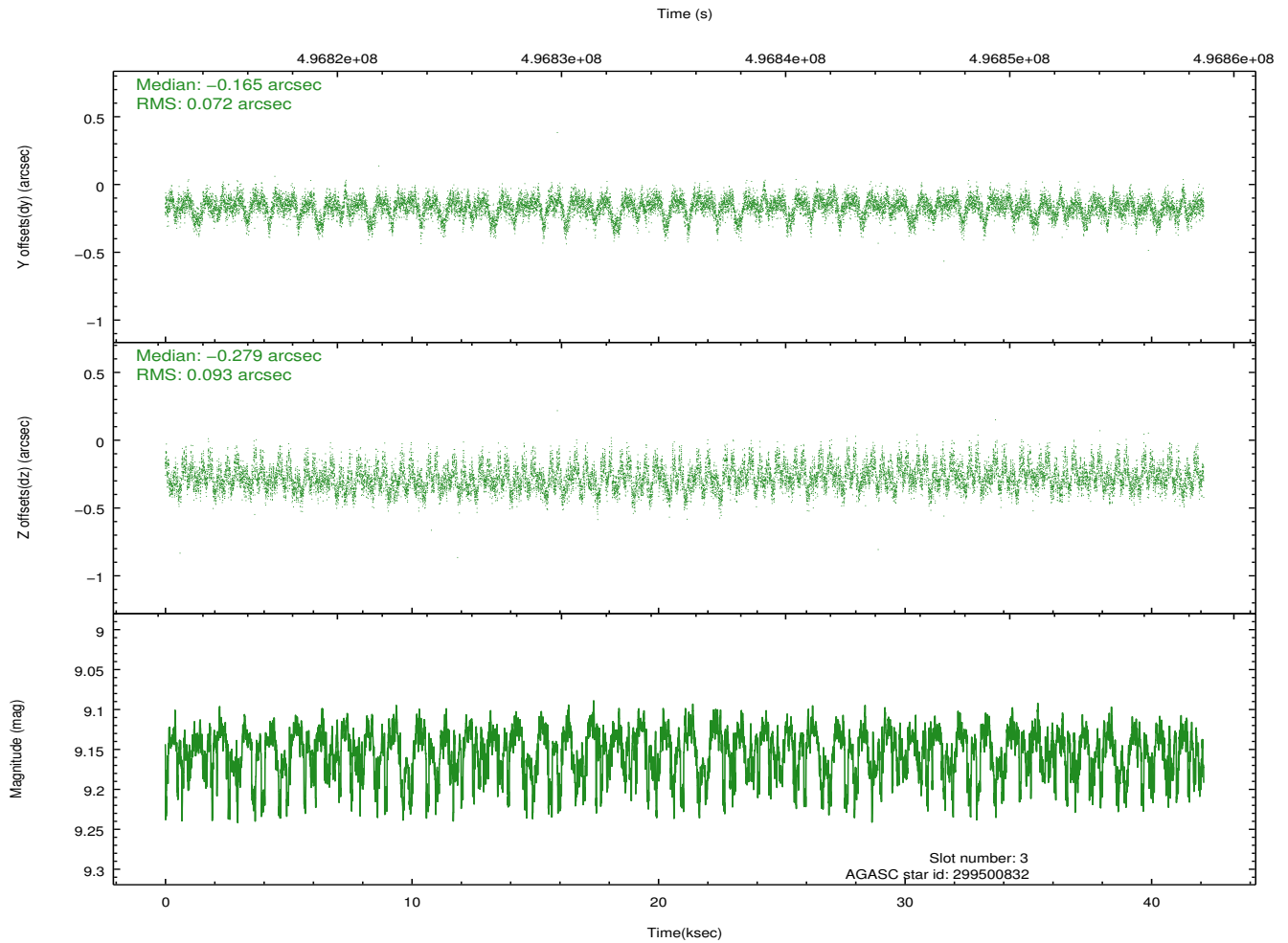
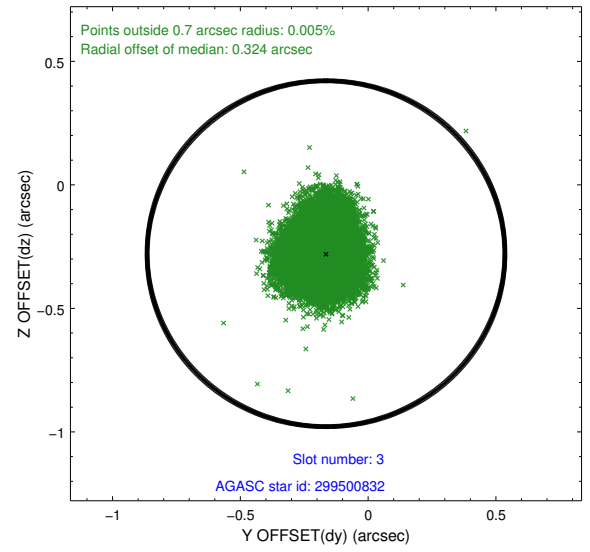
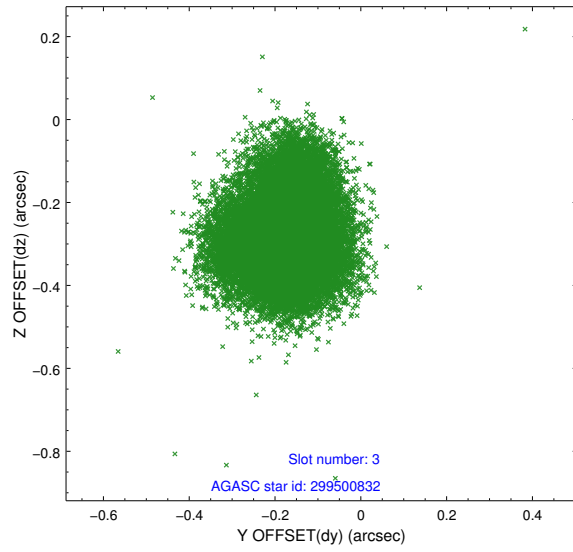


Slot Statistics

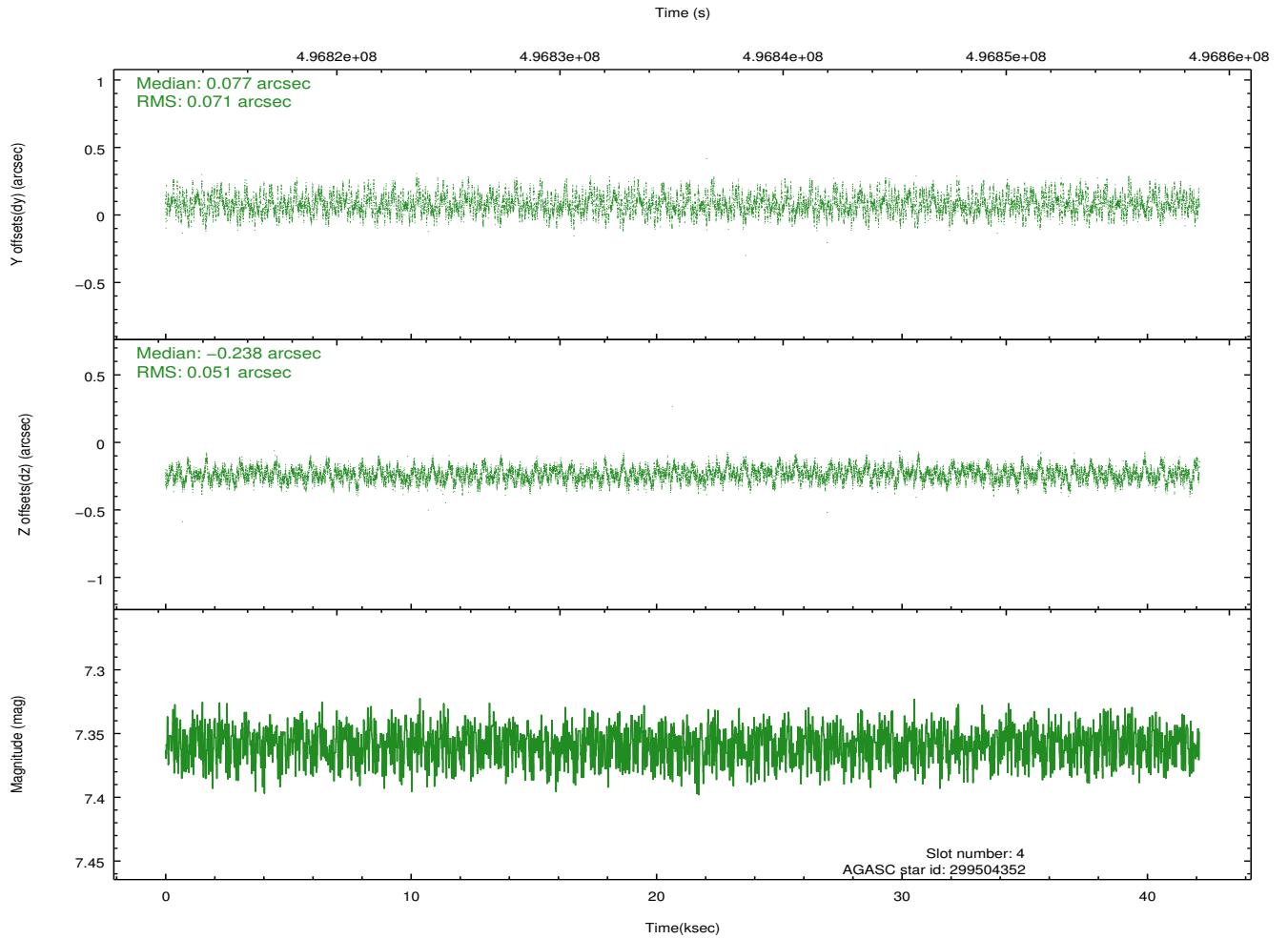
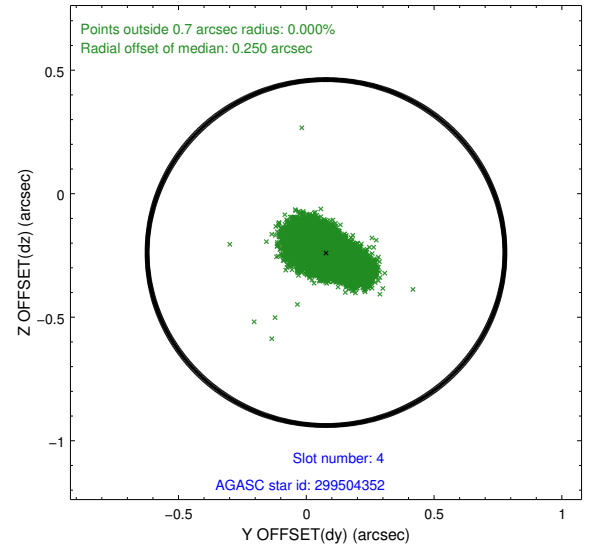
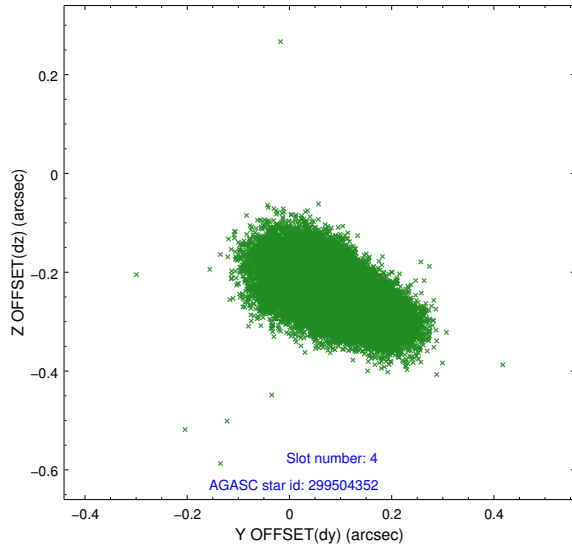
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.96	10274	-0.137	-0.050	0.031	0.038	0.000000	0.000000	-776.38	-1740.58
1	FID		ACIS-S-4	7.05	10272	0.321	0.078	0.029	0.067	0.000000	0.000000	2137.34	168.01
2	FID		ACIS-S-5	7.07	10274	-0.216	-0.022	0.030	0.043	0.000000	0.000000	-1829.29	161.60
3	GUIDE	used	299500832	9.15	20451	-0.165	-0.279	0.127	0.198	13.532782	35.062599	504.87	1564.14
4	GUIDE	used	299504352	7.36	20548	0.077	-0.238	0.092	0.158	14.061746	35.228622	-843.78	582.57
5	GUIDE	used	299506248	8.81	20537	0.180	0.219	0.097	0.154	14.467366	35.368389	-1859.72	-217.14
6	GUIDE	used	299896576	8.79	20521	-0.058	0.027	0.093	0.146	13.437561	35.732241	1393.40	-693.88
7	GUIDE	used	300033848	8.22	20537	-0.034	0.262	0.075	0.122	13.821306	36.051851	609.46	-2094.17

2.4 Star Slots

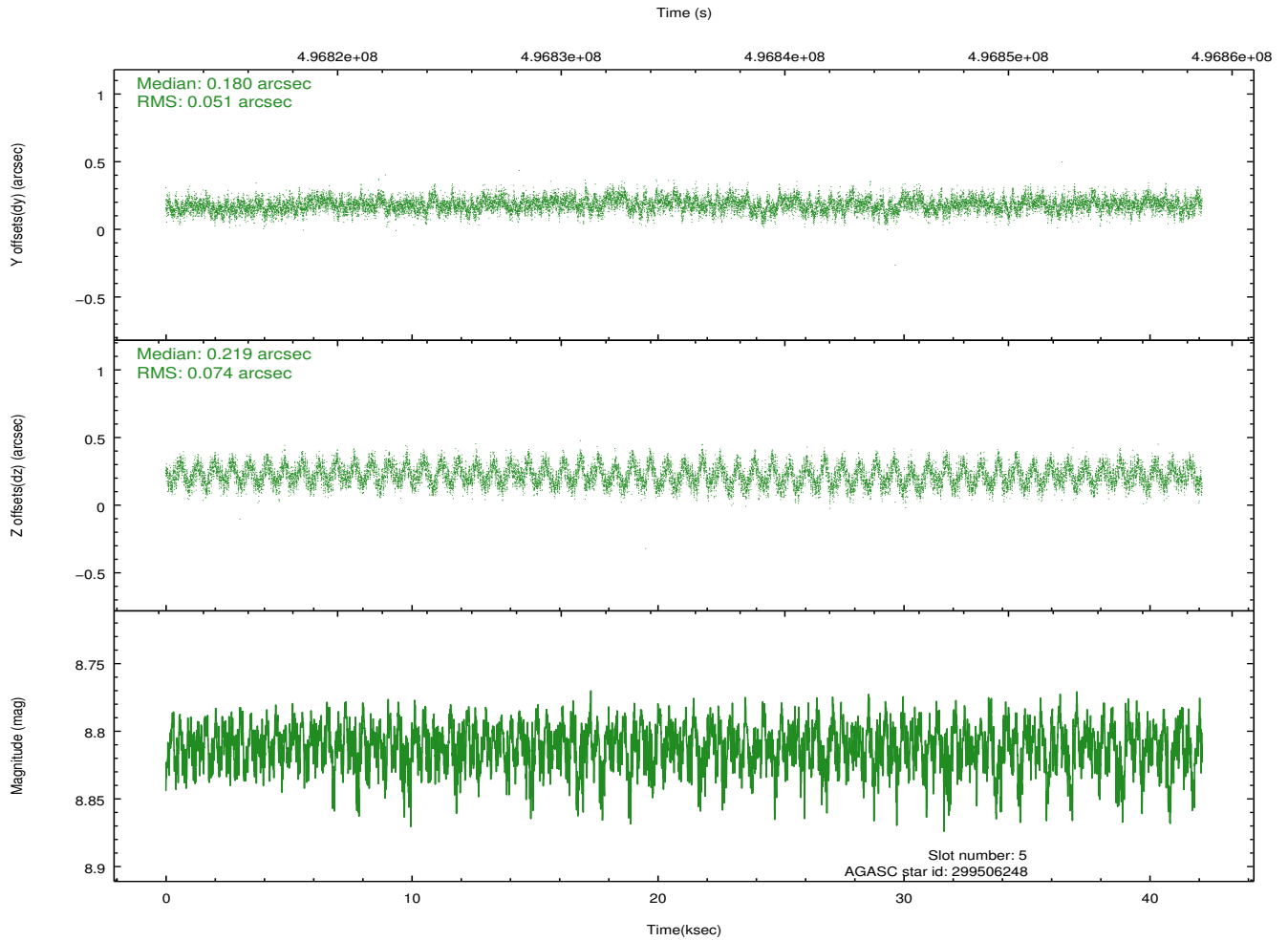
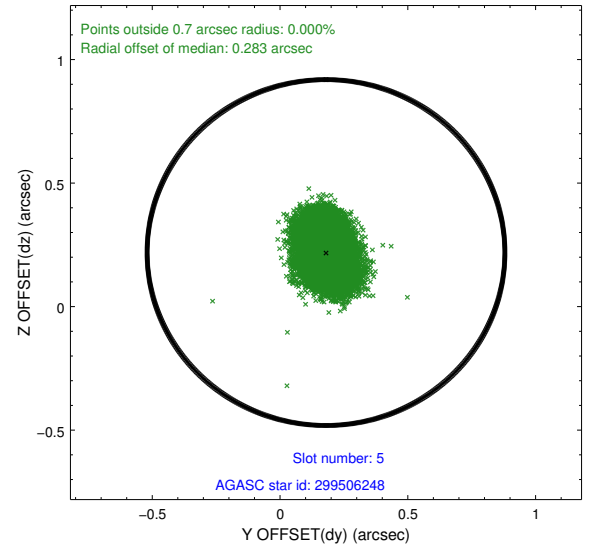
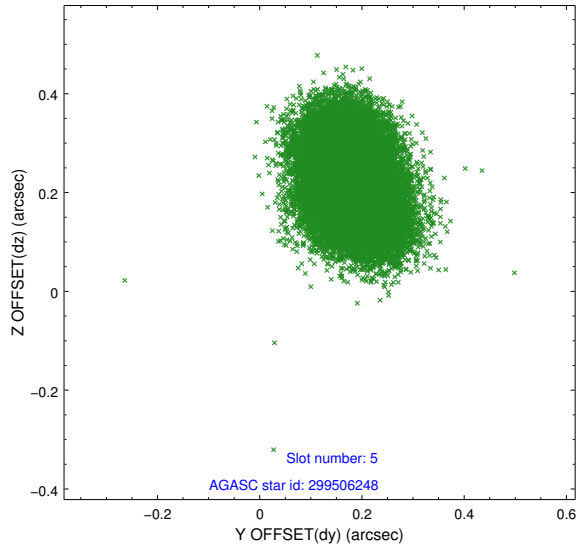
2.4.1 Slot 3



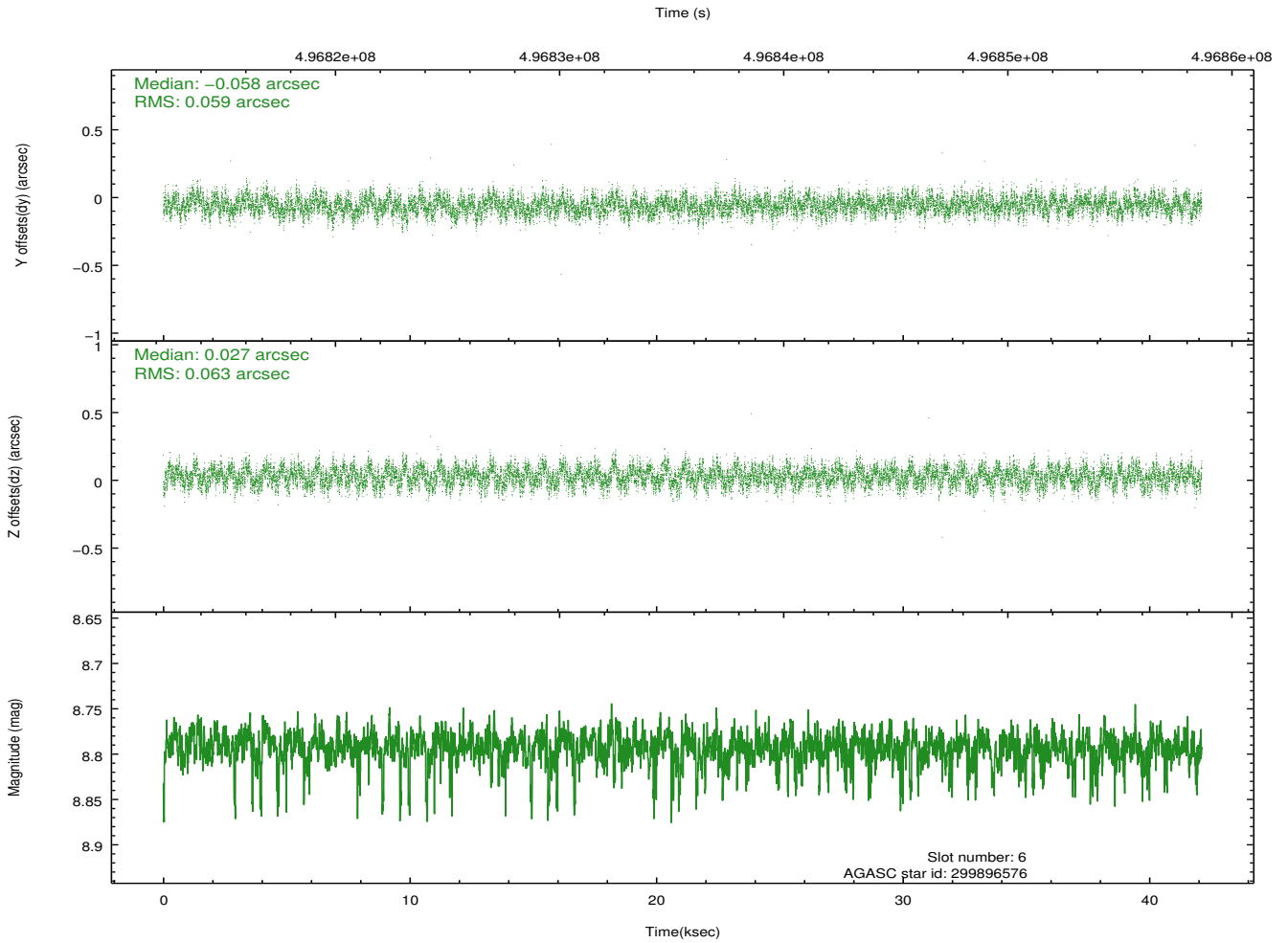
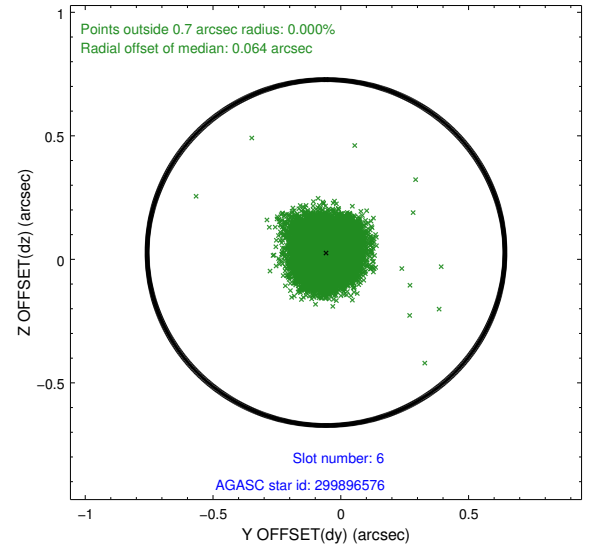
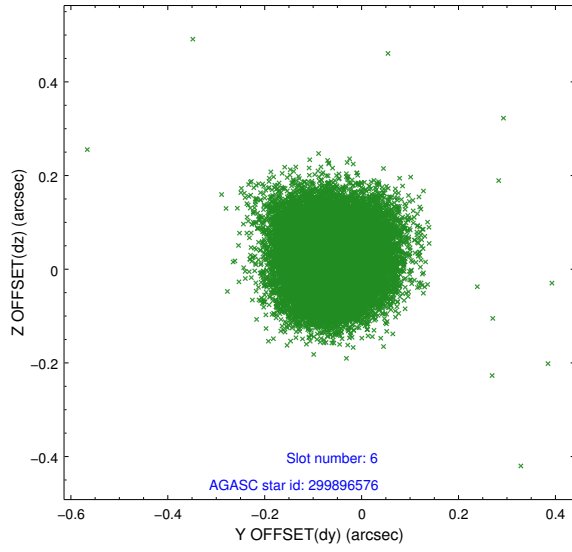
2.4.2 Slot 4



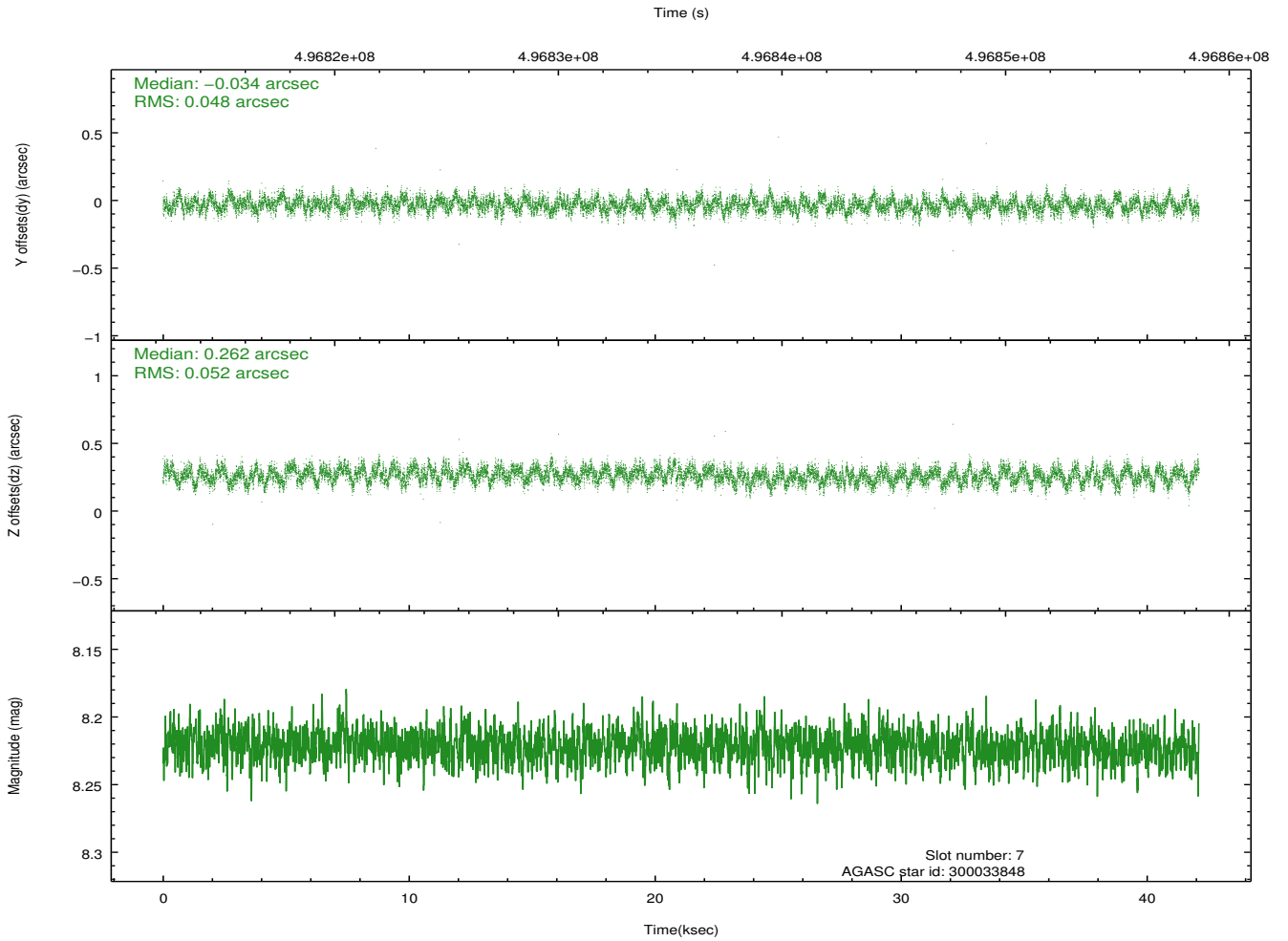
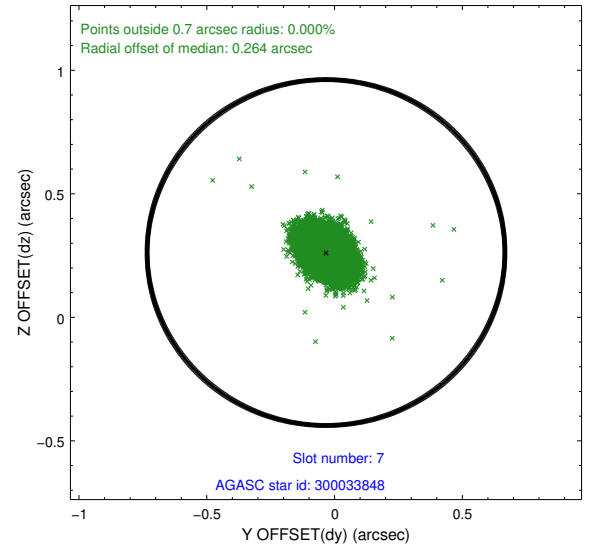
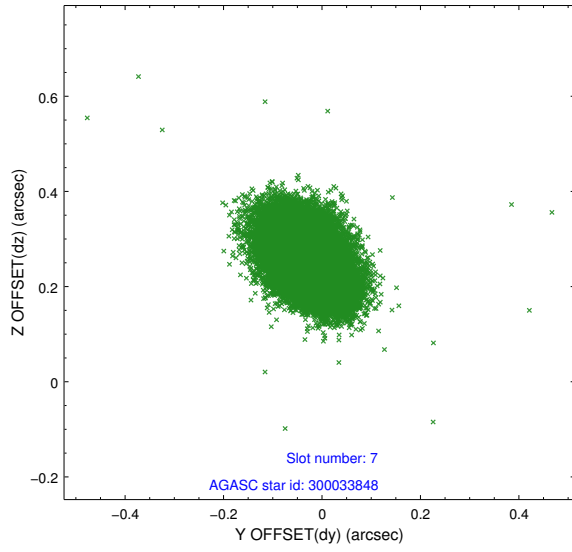
2.4.3 Slot 5



2.4.4 Slot 6

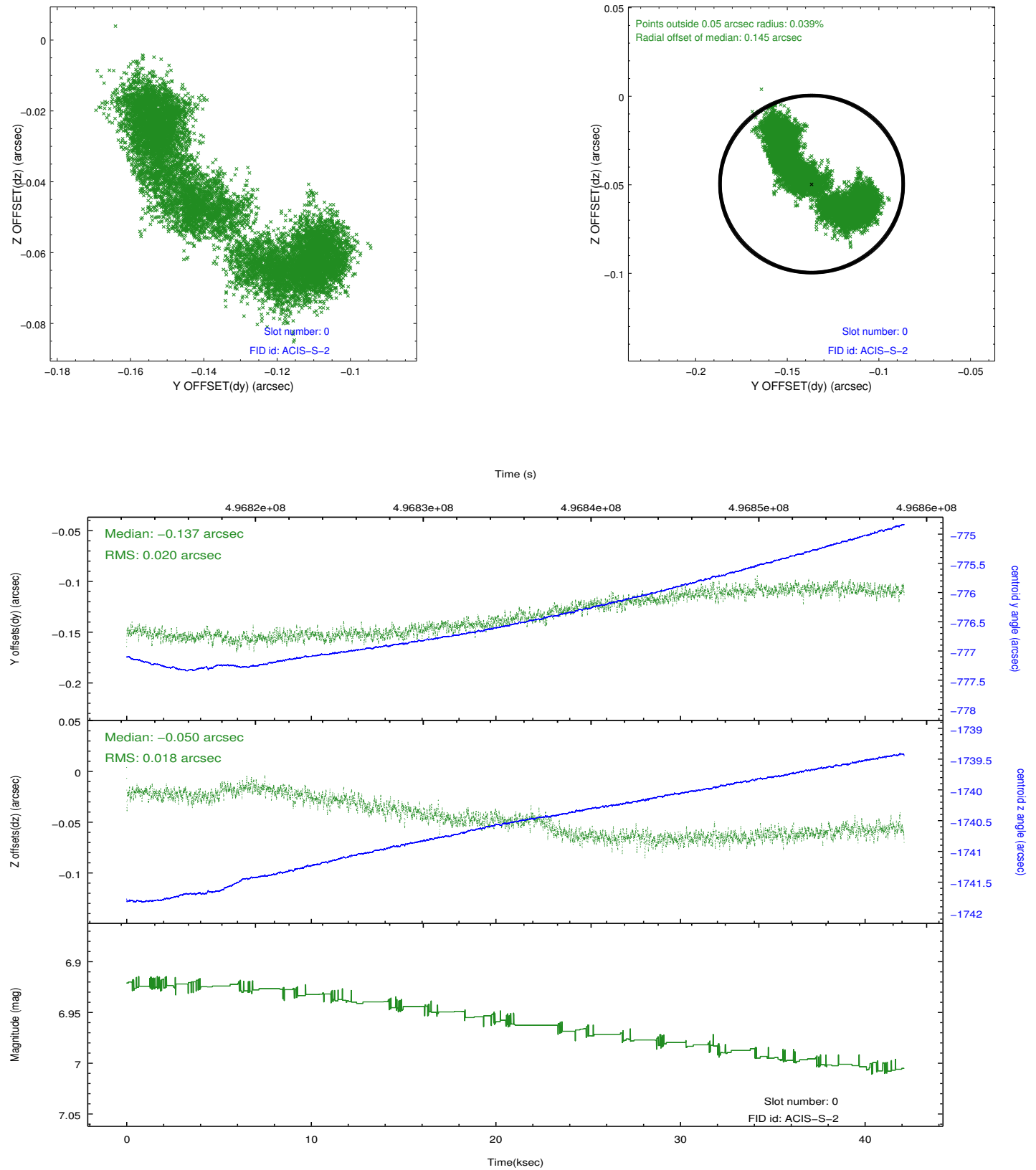


2.4.5 Slot 7

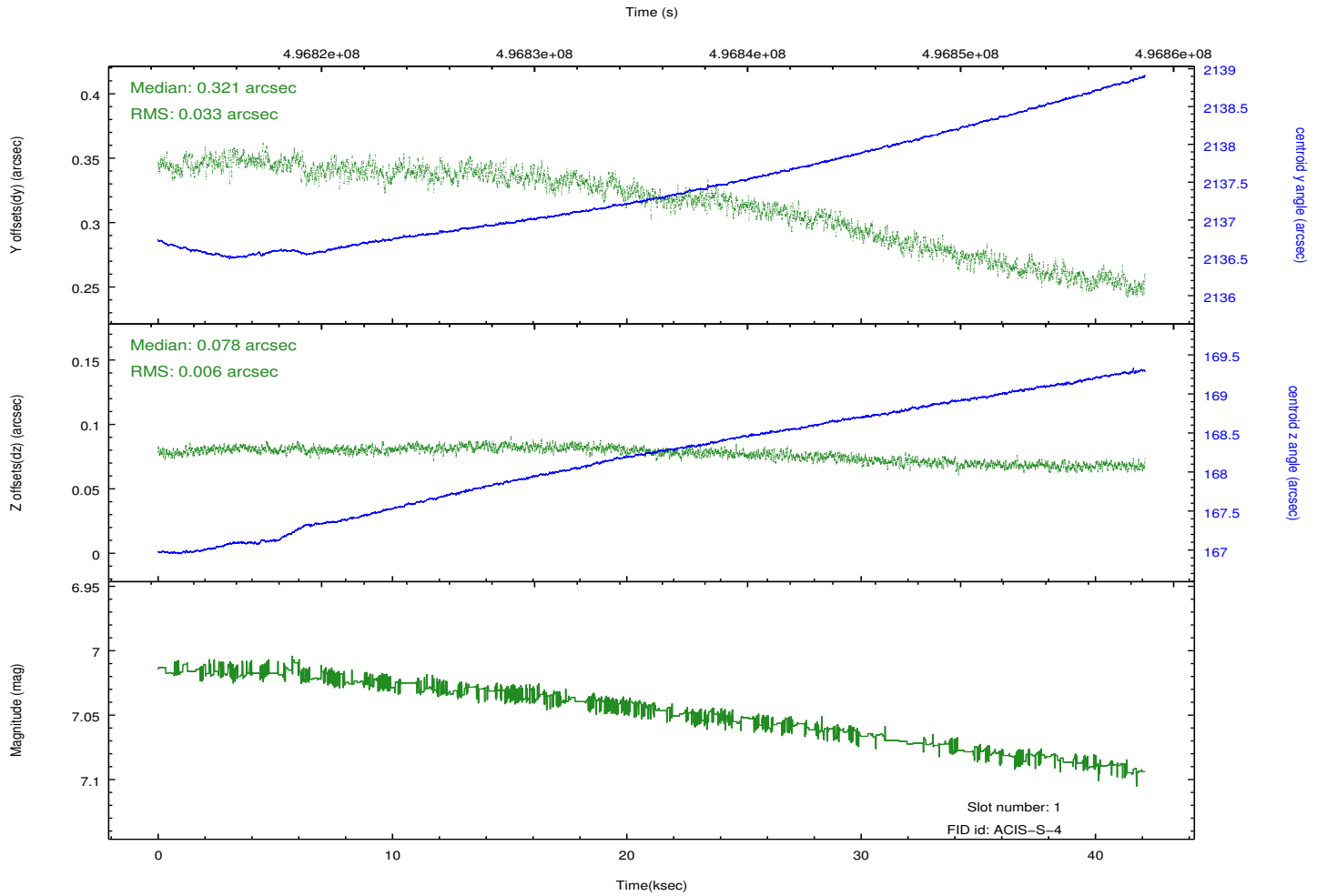
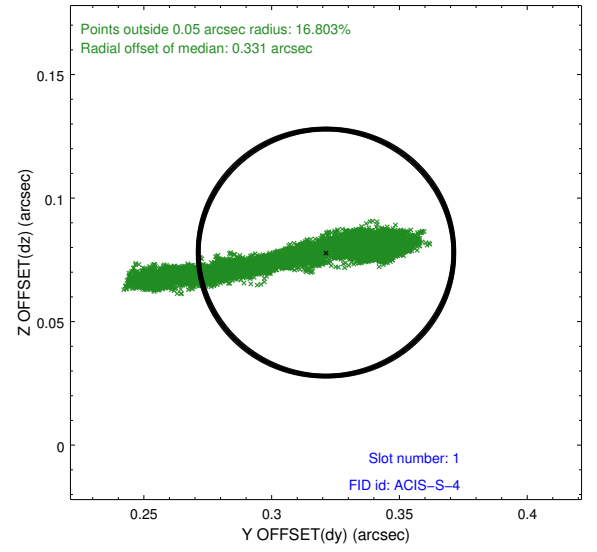
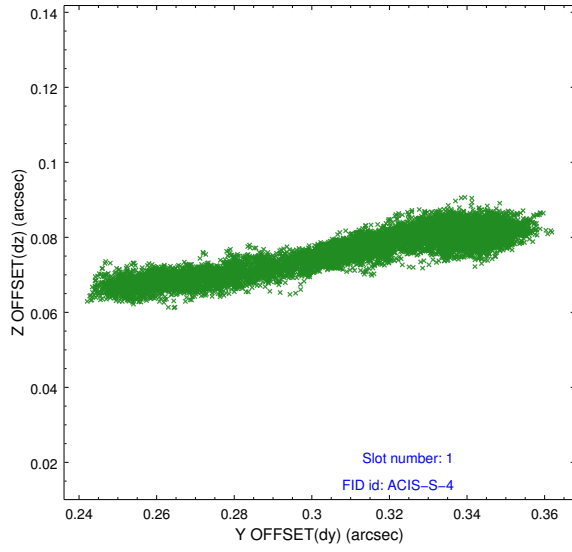


2.5 FID Slots

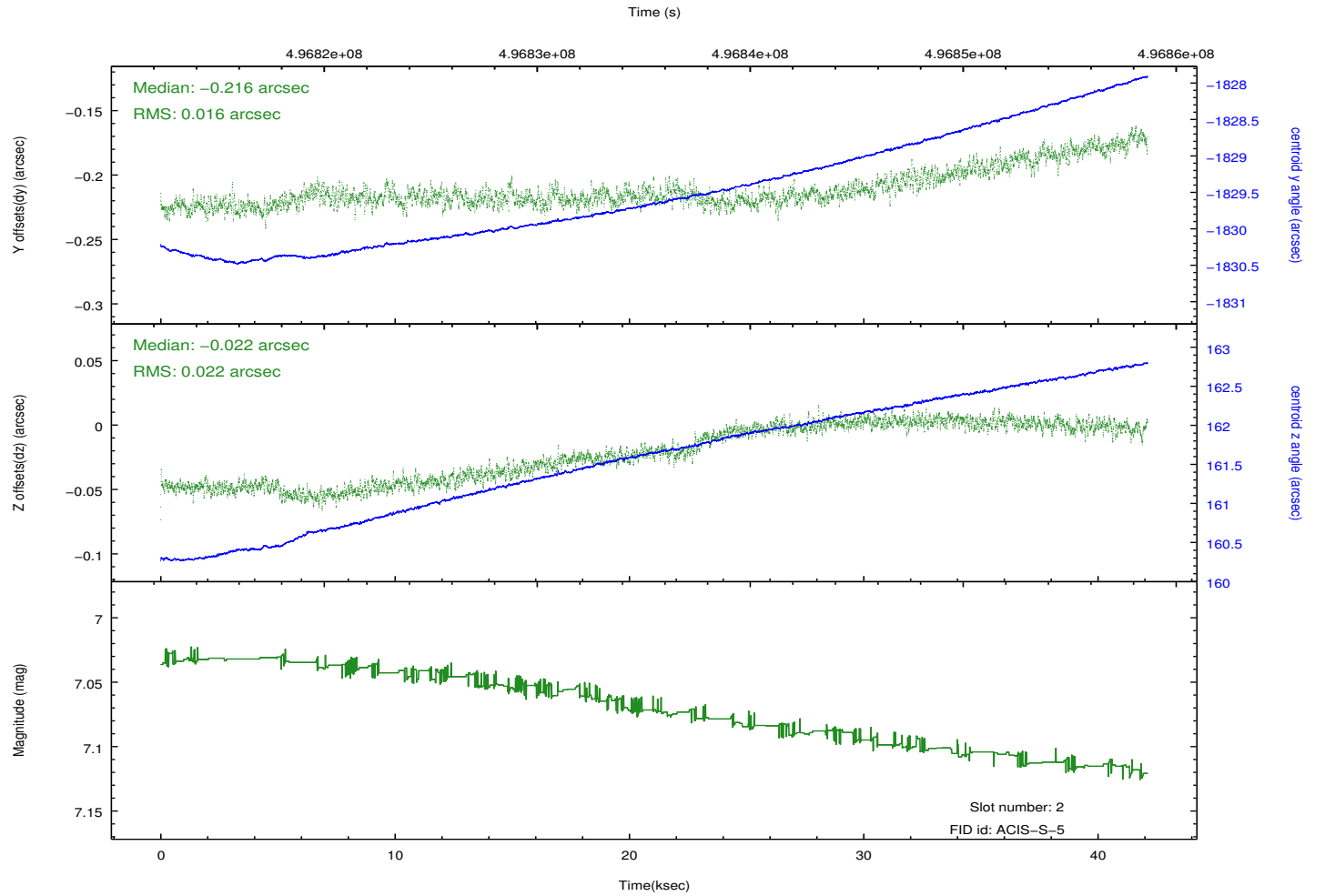
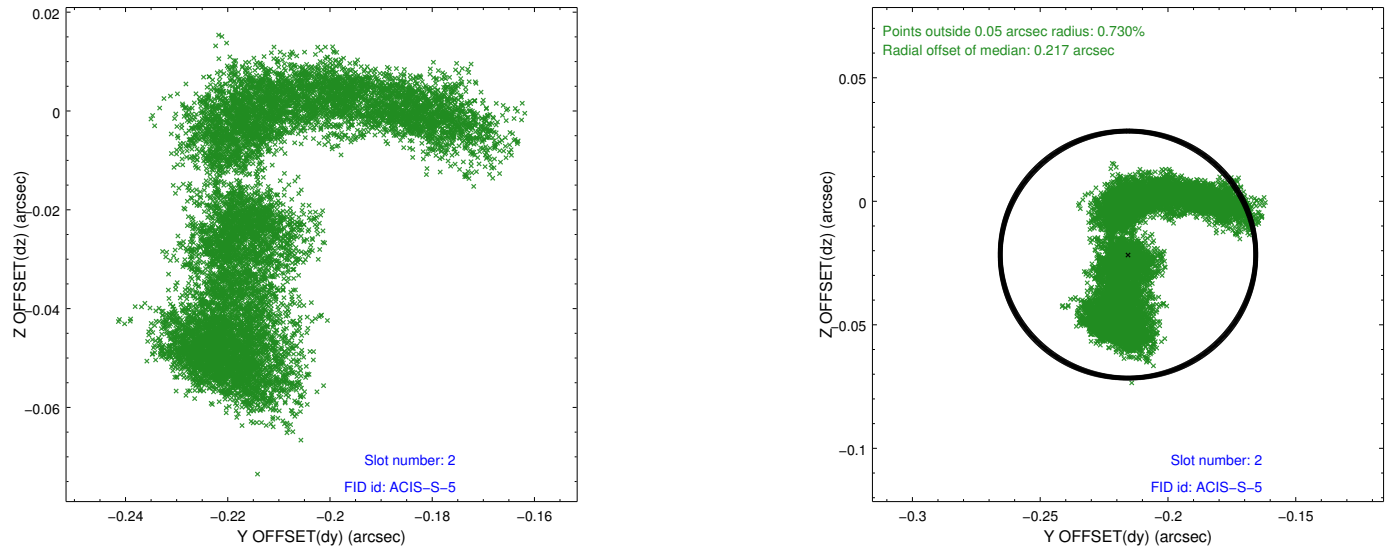
2.5.1 Slot 0



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)	2014.12.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	42.070100323558

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.