

V&V Reference Report

L2 ASCDS Version : 10.2.1

Observation 16583 - L2 Version 2
Chandra X-Ray Center

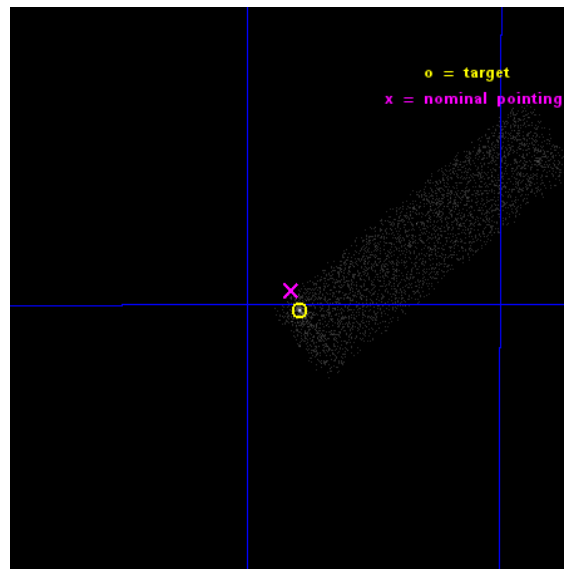
L2 Processing Date : Dec 10 2014

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1 Front

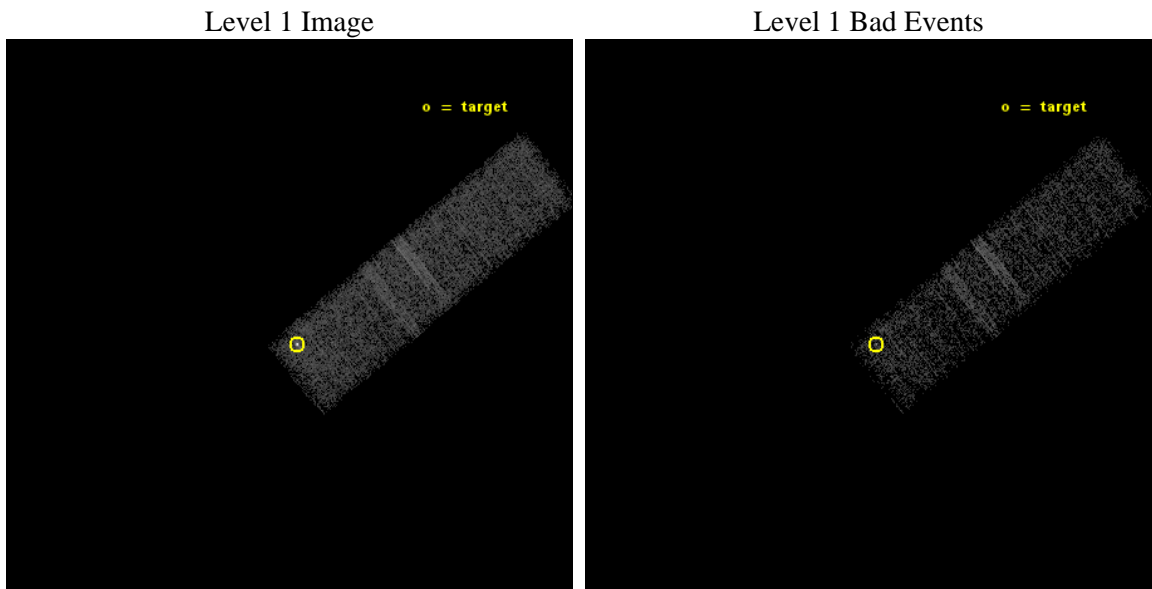
seq_num	401611	Sequence number
obs_id	16583	Observation id
title	The dynamical X-ray nebula powered by the high-mass binary PSR B1259-63/LS 2883	Proposal title
observer	Dr. George Pavlov	Principal investigator
object	PSR B1259-63	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	195.698333	Observer's specified target RA [deg]
dec_targ	-63.83575	Observer's specified target Dec [deg]
ra_nom	195.70628268038	Nominal RA [deg]
dec_nom	-63.827572105004	Nominal Dec [deg]
roll_nom	51.21582211688	Nominal Roll [deg]
revision	2	Processing version of data
ontime	28538.148614049	Sum of GTIs [s]
livetime	27145.58034248	Livetime [s]
ontime3	28538.148614049	Sum of GTIs [s]
l2events	7794	Number of level 2 events



2 OBI

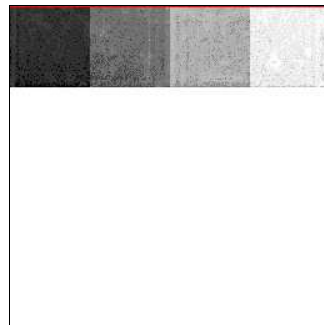
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 3



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	28476.521000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	28538.148614049	Sum of GTIs [s]
caldbver	4.6.4	 	ontime3	28538.148614049	Sum of GTIs [s]
date	2014-12-10T04:49:45	Date and time of file creation	l1events	41071	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

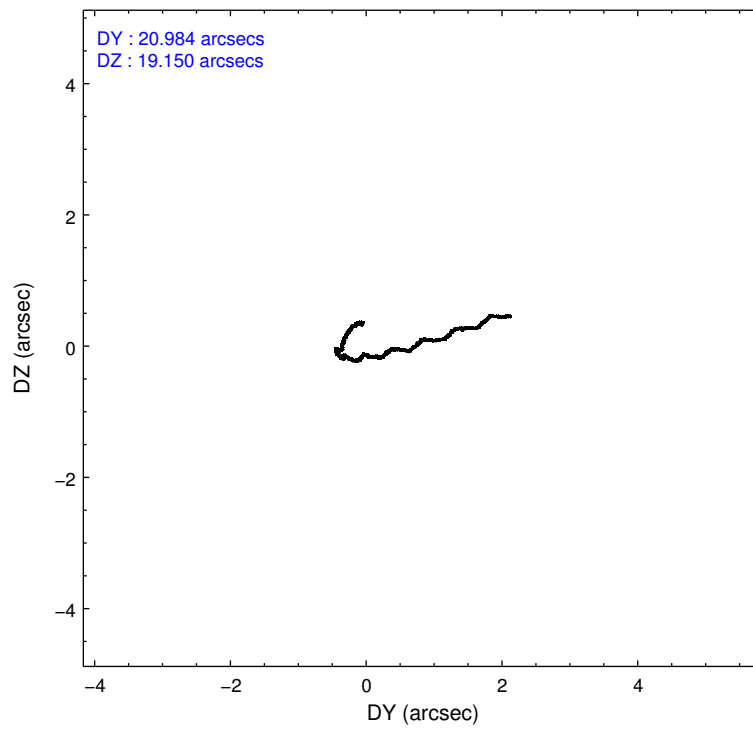
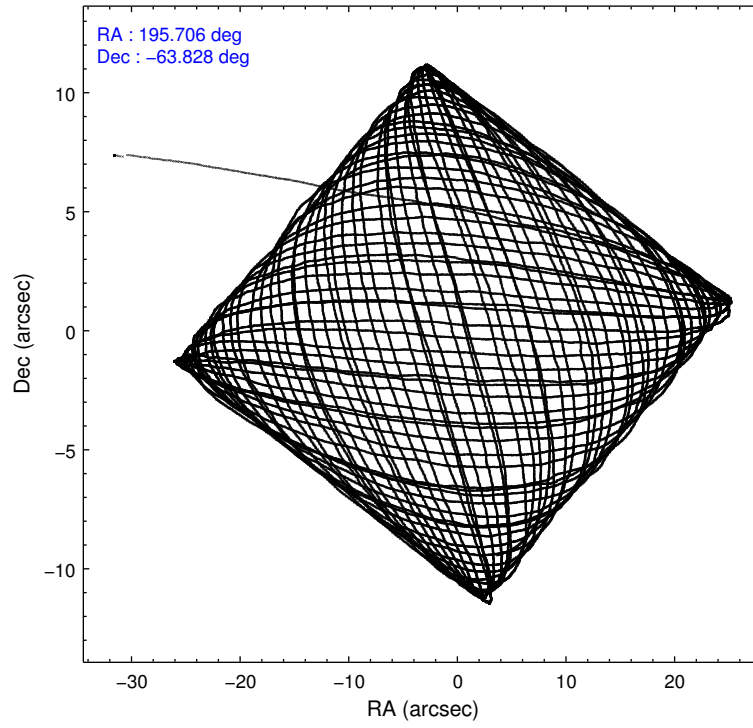
	ccd 3
level 1 events	41071
rejected events	32625
rejected %	79%

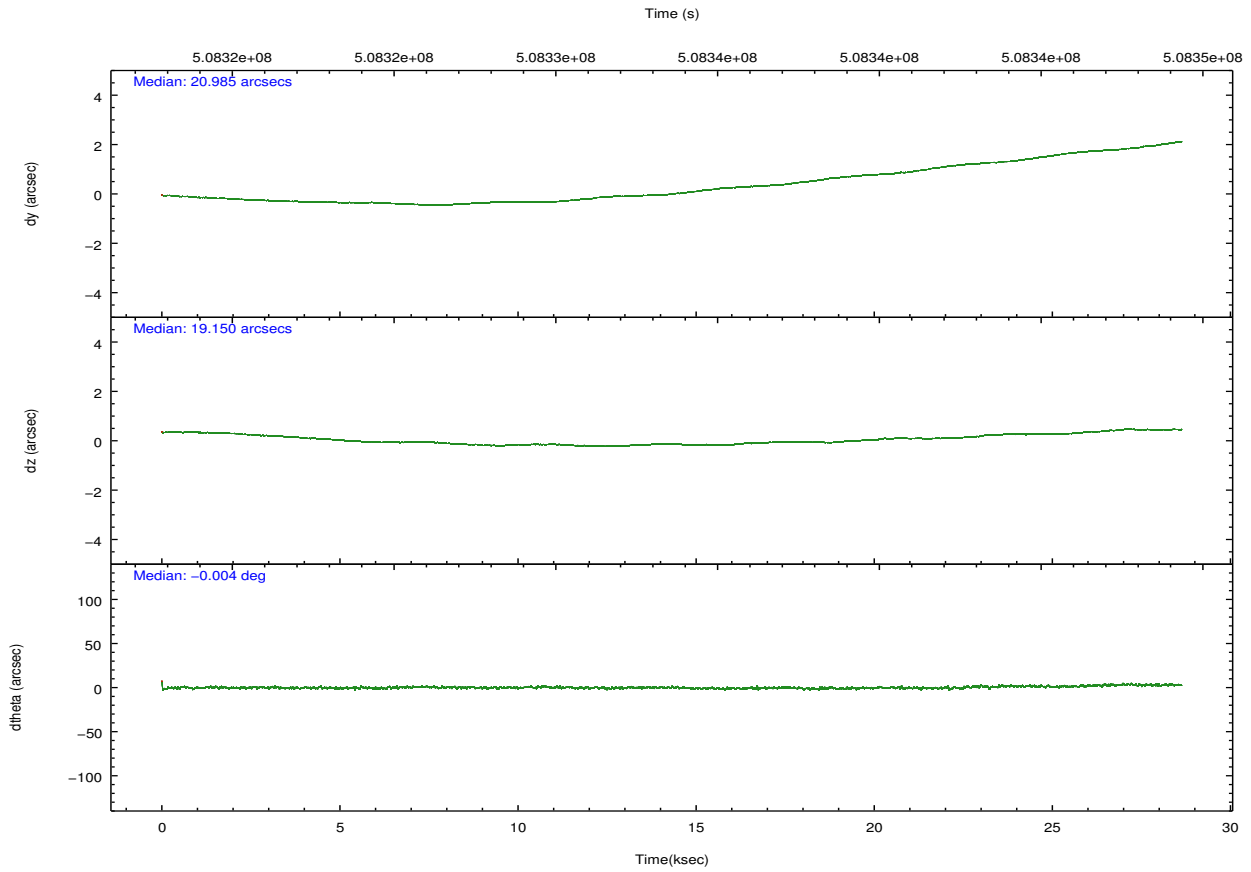
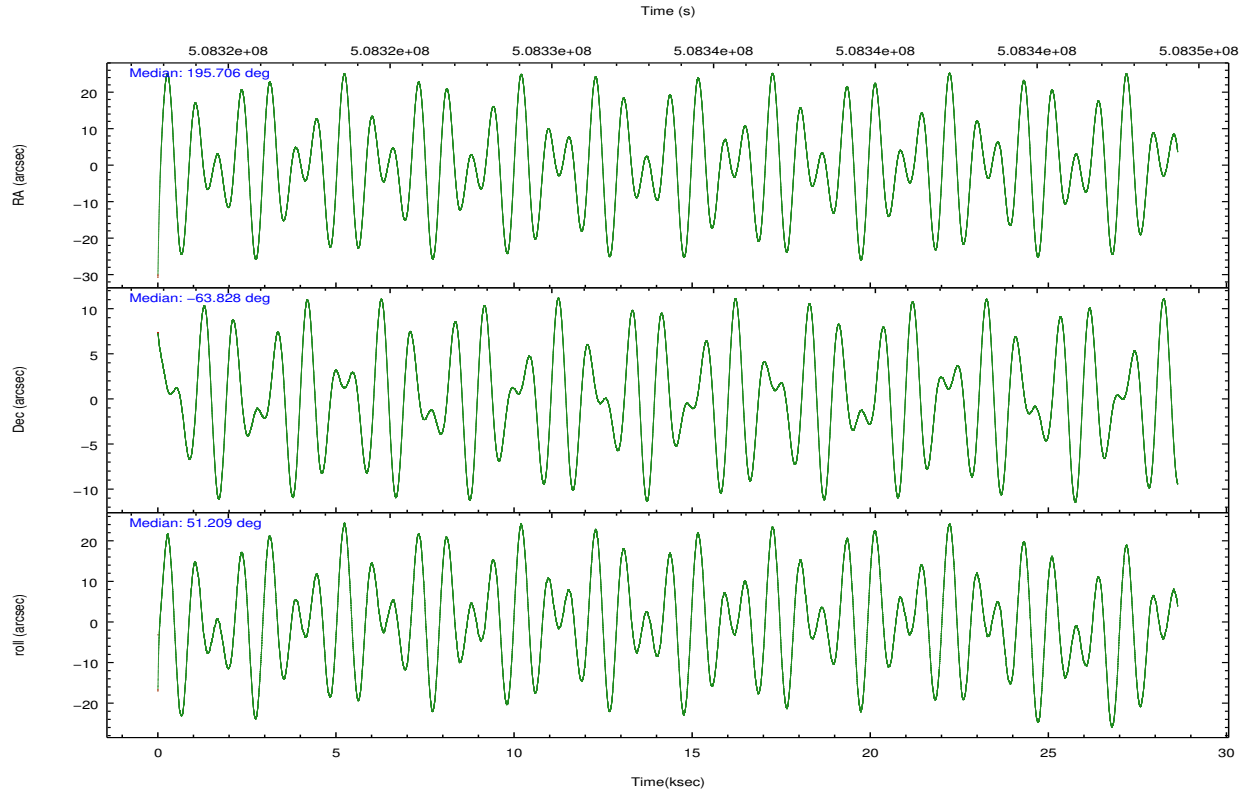
	ccd 3
grade 0 events	4682
	11%
grade 1 events	39
	0%
grade 2 events	1158
	2%
grade 3 events	849
	2%
grade 4 events	846
	2%
grade 5 events	1600
	3%
grade 6 events	911
	2%
grade 7 events	30986
	75%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-3	ACIS-3	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	195.696947	195.7062826803806	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-63.854778	-63.82757210500431	Subarray start row	768	768
[deg] Pointing Roll	50.998760	51.21582211688015	Subarray row count	256	256
[mm] SIM focus pos	-0.782348	-0.7809083437167272	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001439871863259334	[s] Primary exposure time	0.000000	0.8
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	508319419.184000	508318435.71819			
Observation start date	2014-02-09T07:49:12	2014-02-09T07:33:55			
[s] Observation end time (MET)	508347895.184000	508348134.06982			
Observation end date	2014-02-09T15:43:48	2014-02-09T15:48:54			
Read mode	TIMED	TIMED			

2.3 Aspect



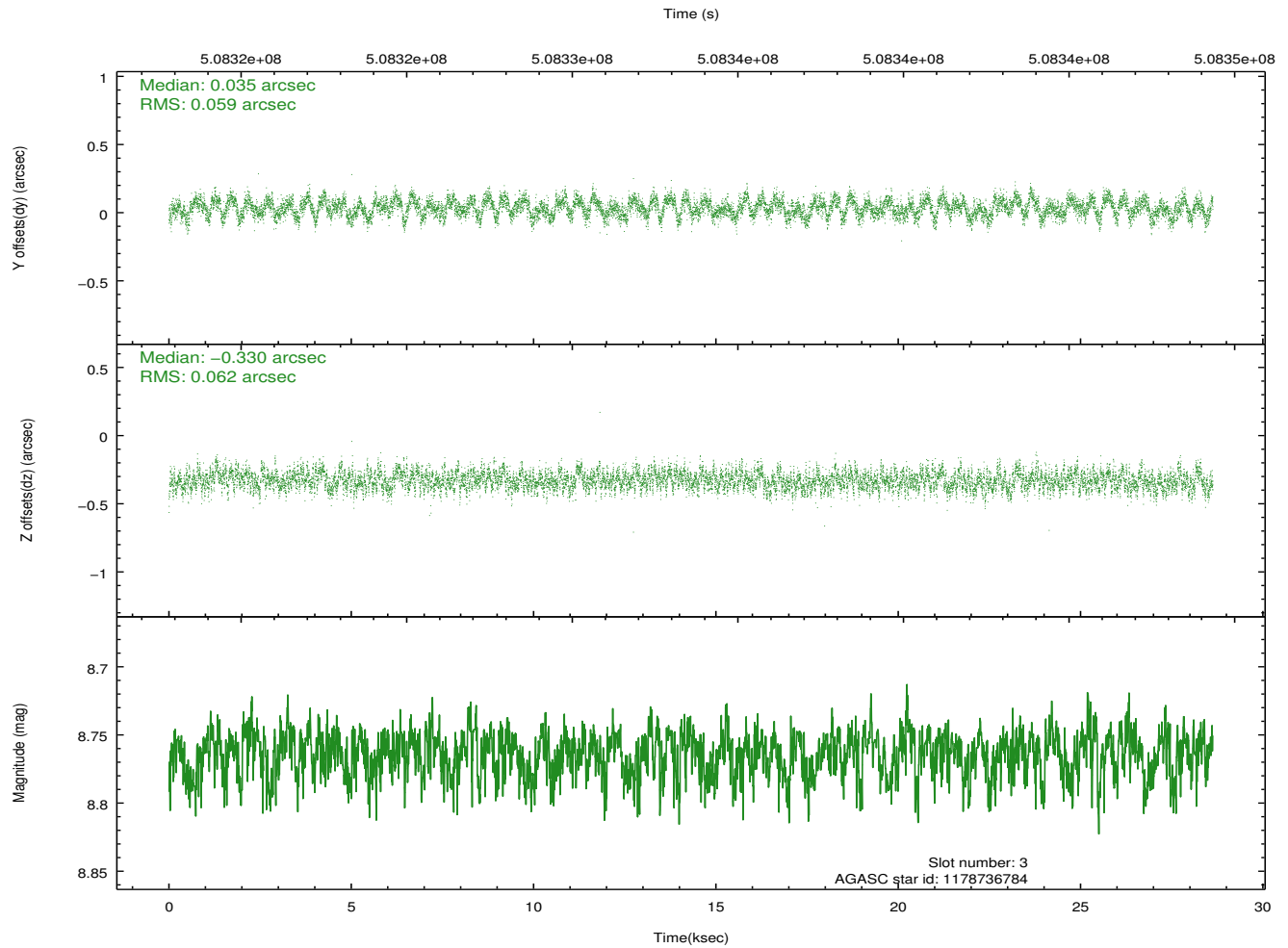
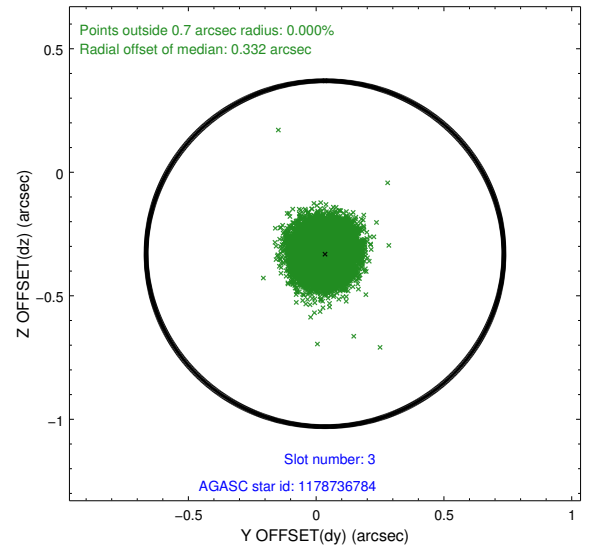
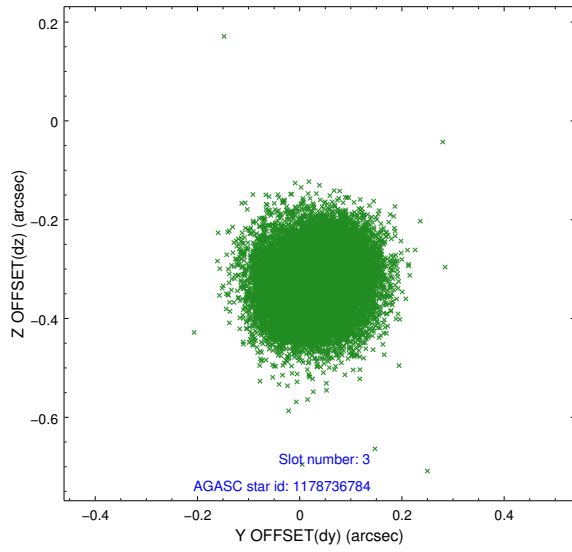


Slot Statistics

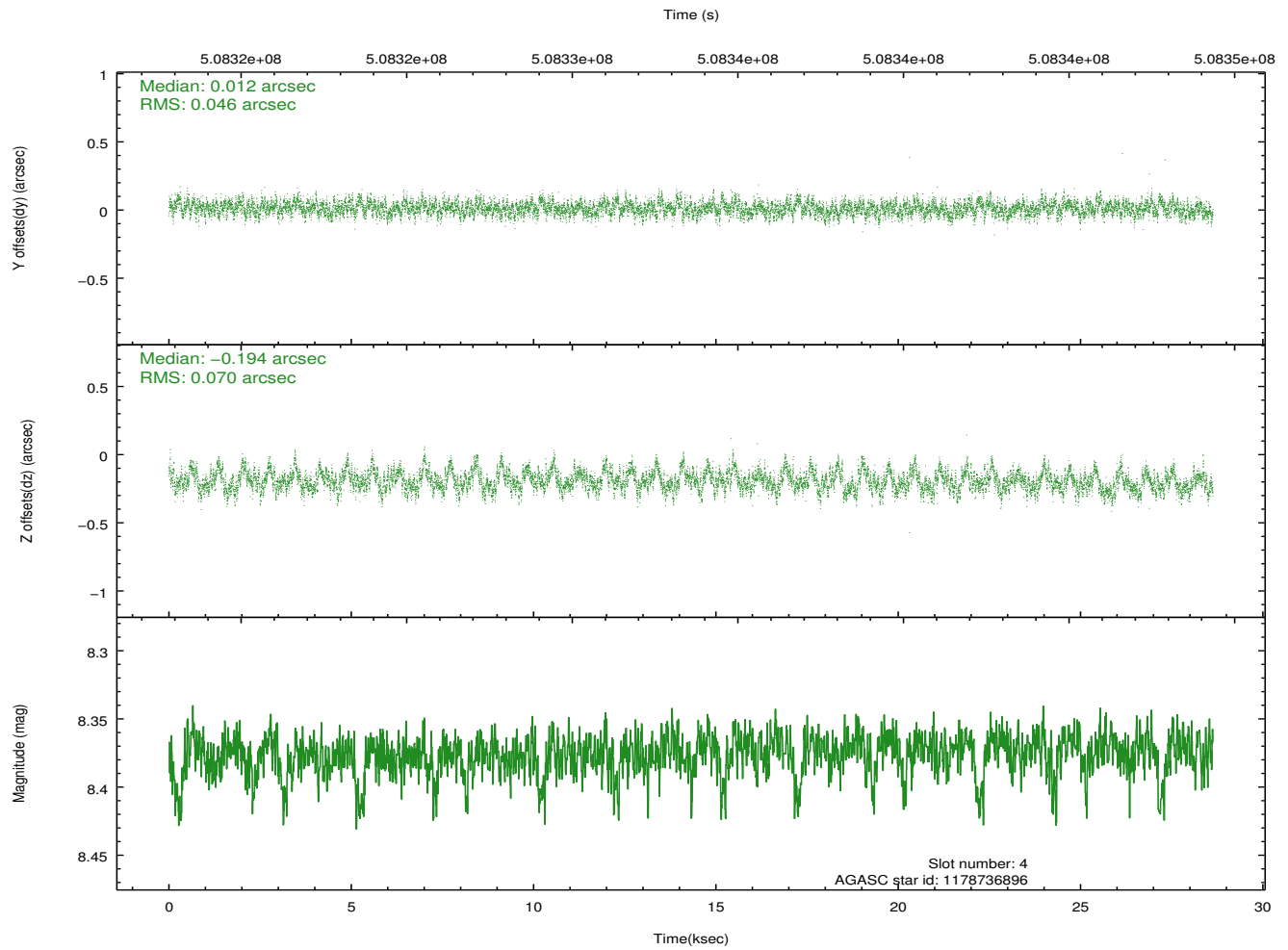
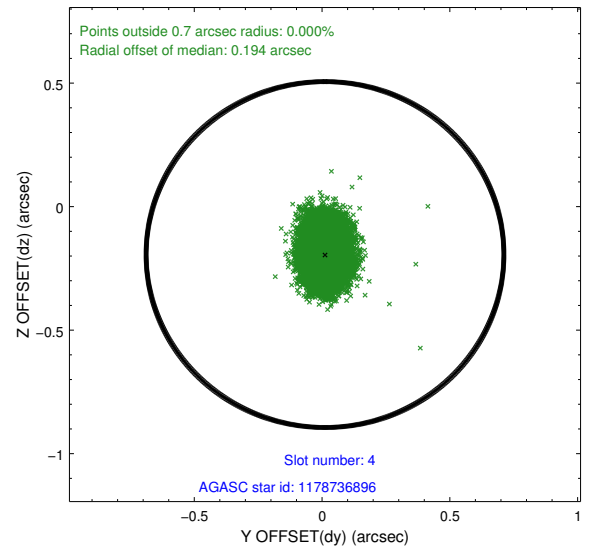
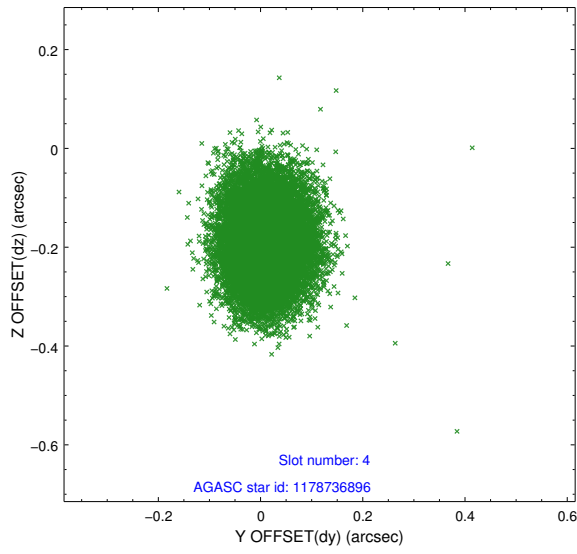
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-2	6.91	6983	-0.193	-0.087	0.011	0.029	0.000000	0.000000	-776.42	-849.38
1	FID		ACIS-I-4	6.95	6983	0.117	0.127	0.026	0.054	0.000000	0.000000	2137.88	1057.03
2	FID		ACIS-I-6	7.00	6983	-0.026	0.023	0.021	0.034	0.000000	0.000000	383.87	1699.16
3	GUIDE	used	1178736784	8.76	13958	0.035	-0.330	0.093	0.143	194.442863	-63.656885	-722.80	1992.80
4	GUIDE	used	1178736896	8.38	13961	0.012	-0.194	0.089	0.146	194.755483	-63.640622	-356.63	1647.80
5	GUIDE	used	1179266488	7.14	13964	0.257	0.354	0.087	0.134	196.258505	-64.441584	-1095.75	-2008.86
6	GUIDE	used	1178734856	8.21	13964	-0.508	-0.235	0.064	0.103	195.759625	-63.178913	1954.27	1452.25
7	GUIDE	used	1179267848	7.97	13961	0.203	0.405	0.081	0.129	195.158124	-64.292418	-1756.19	-339.31

2.4 Star Slots

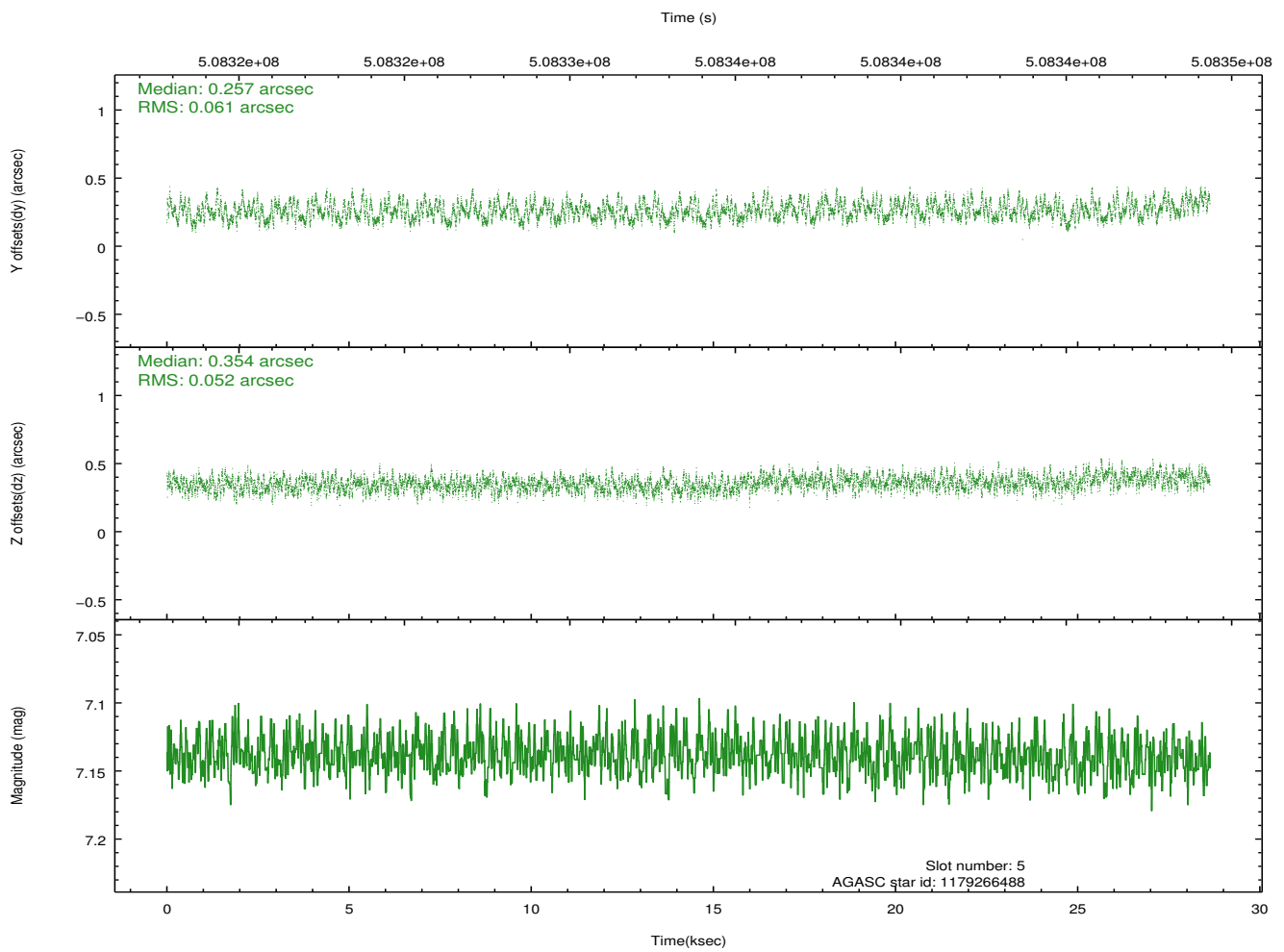
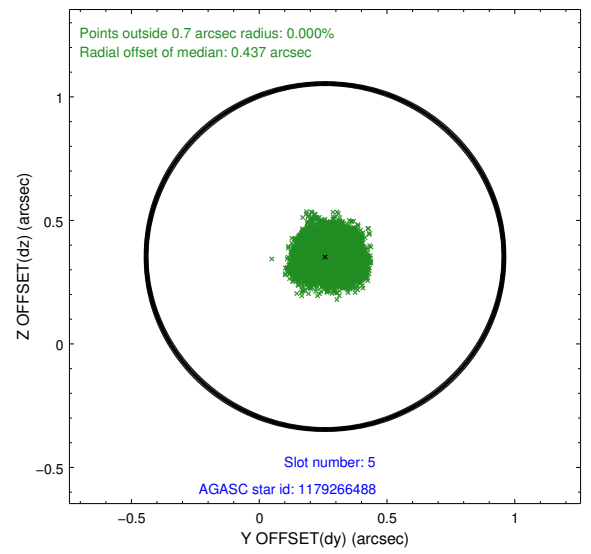
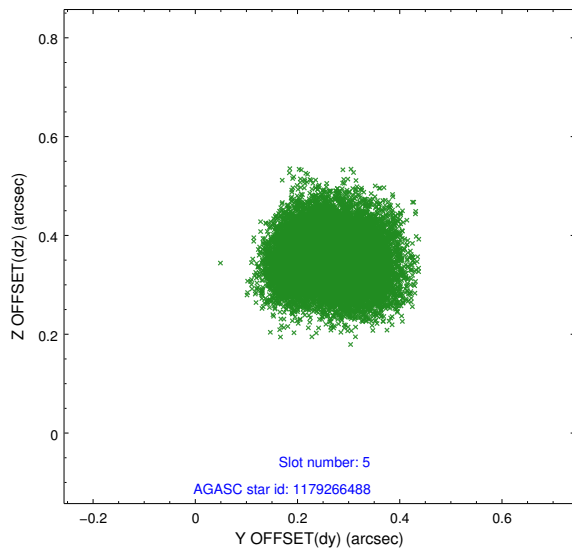
2.4.1 Slot 3



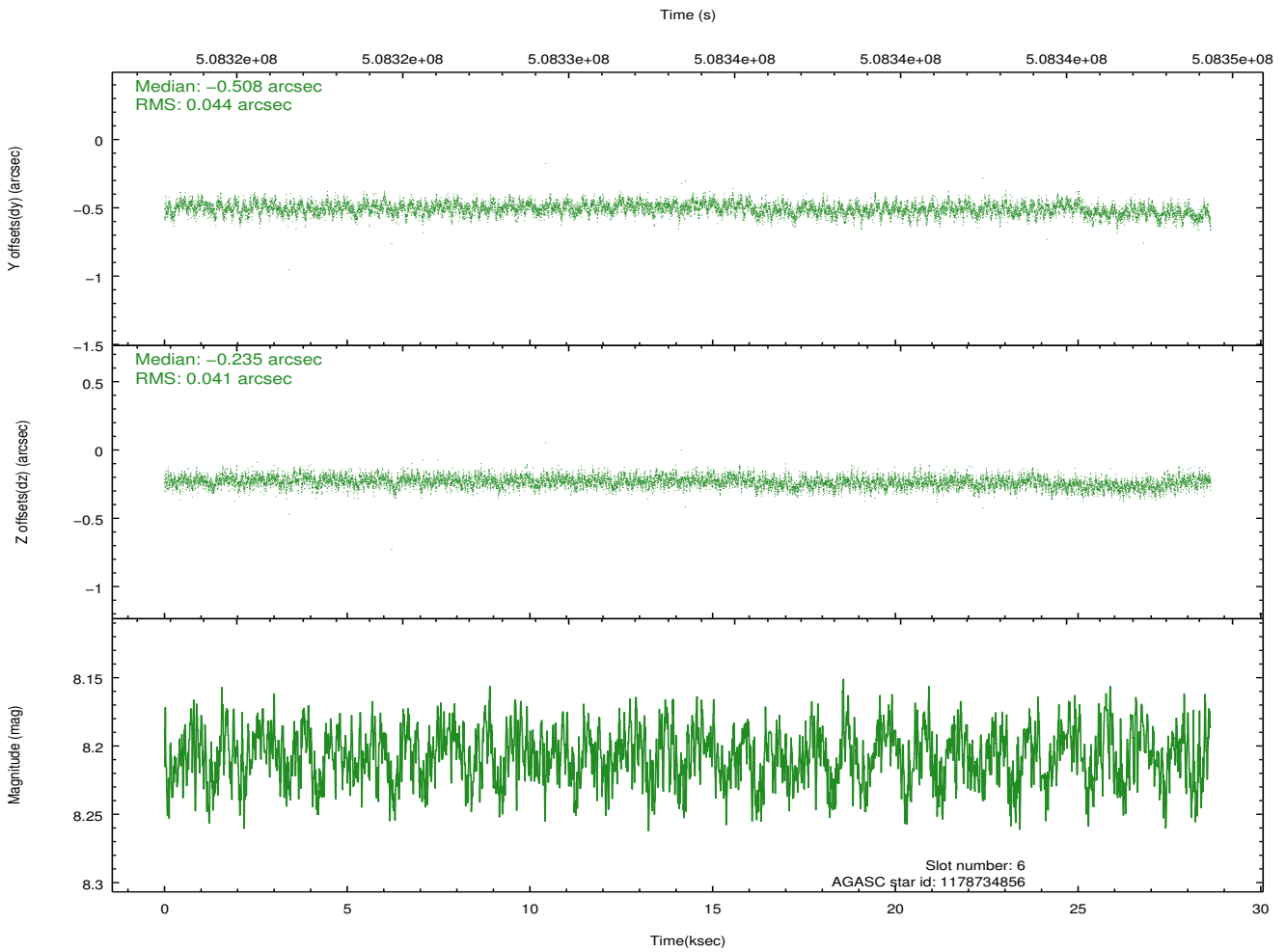
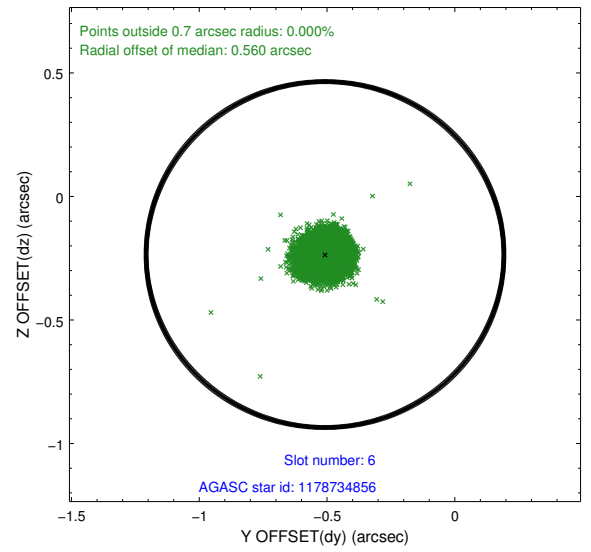
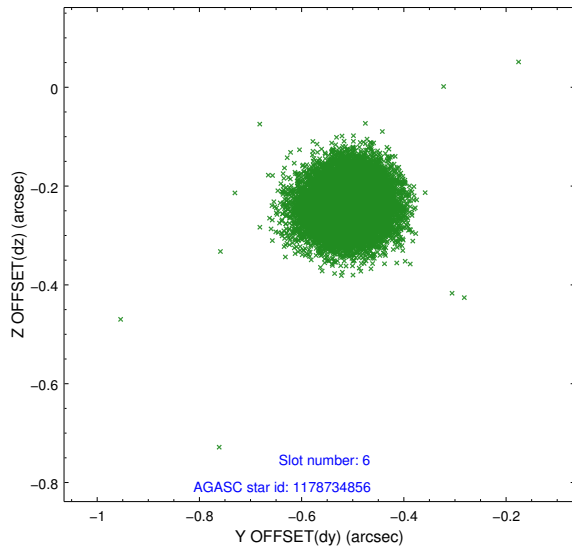
2.4.2 Slot 4



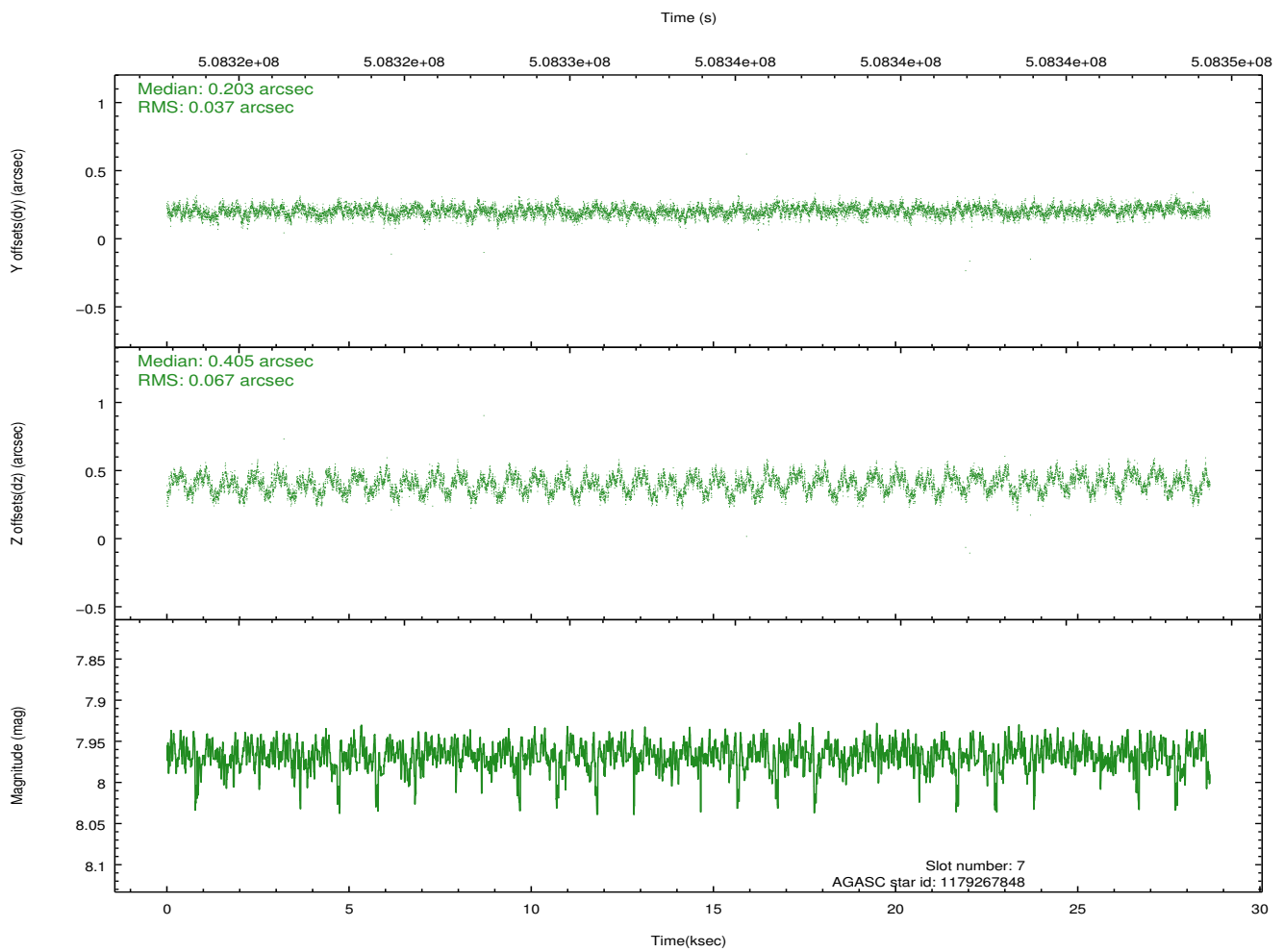
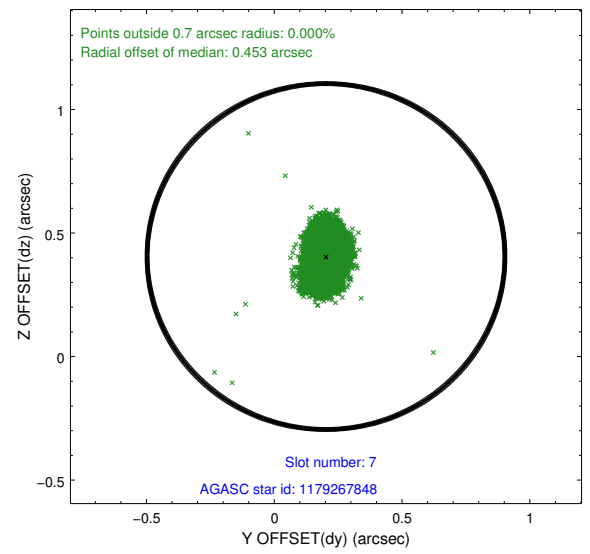
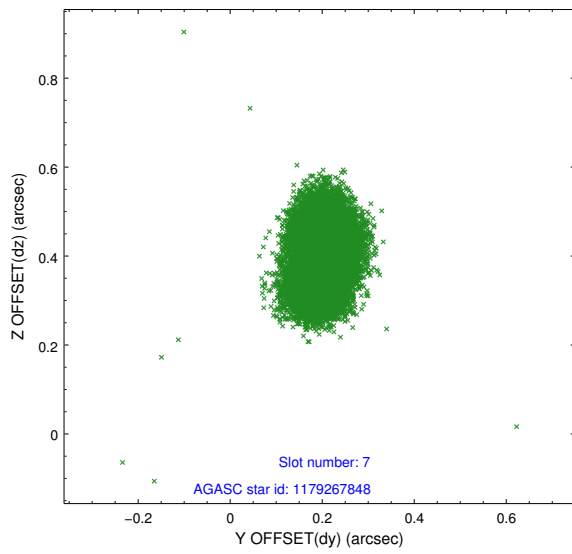
2.4.3 Slot 5



2.4.4 Slot 6

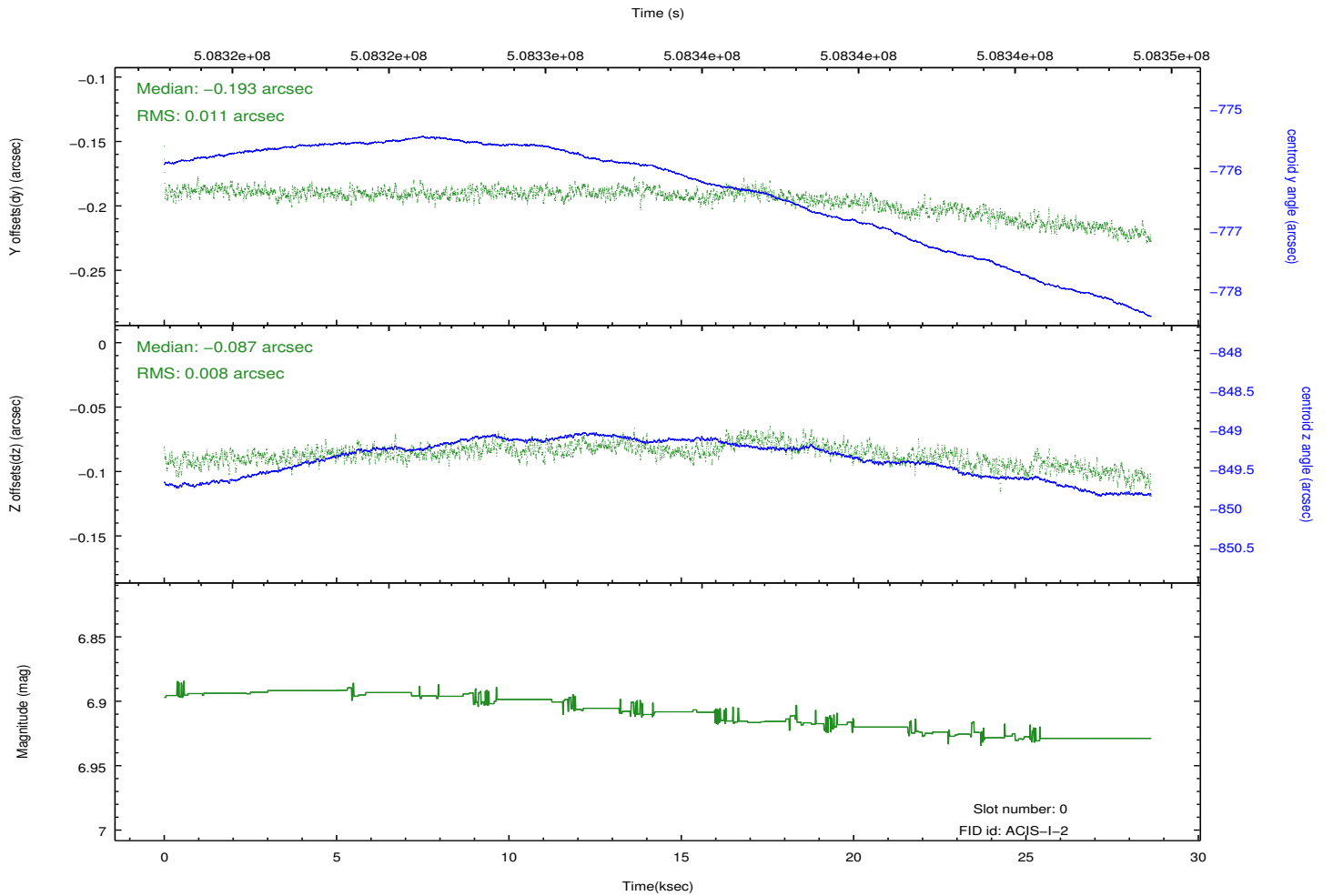
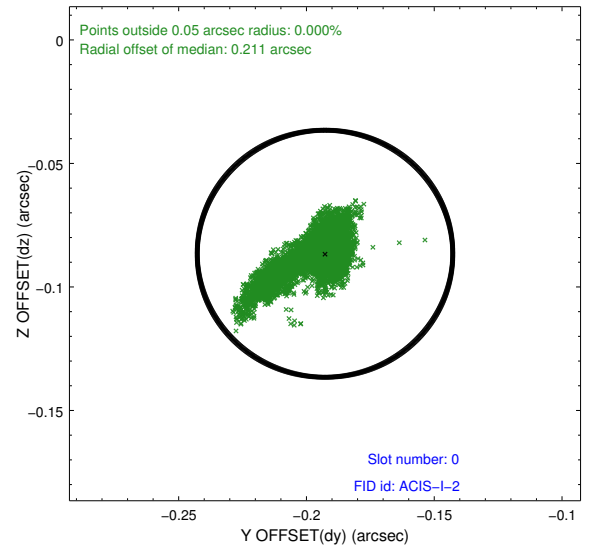
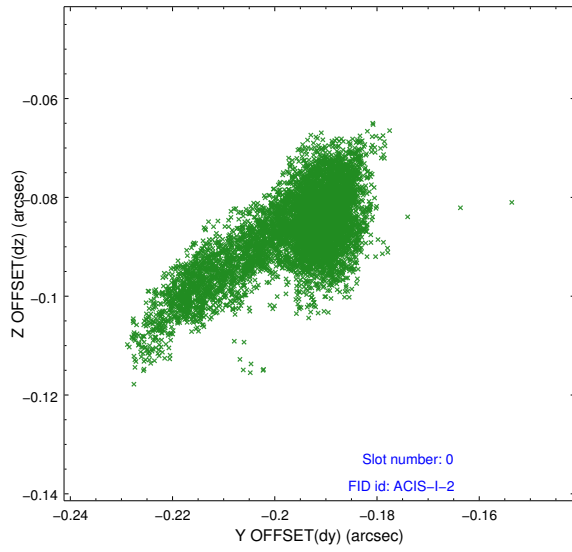


2.4.5 Slot 7

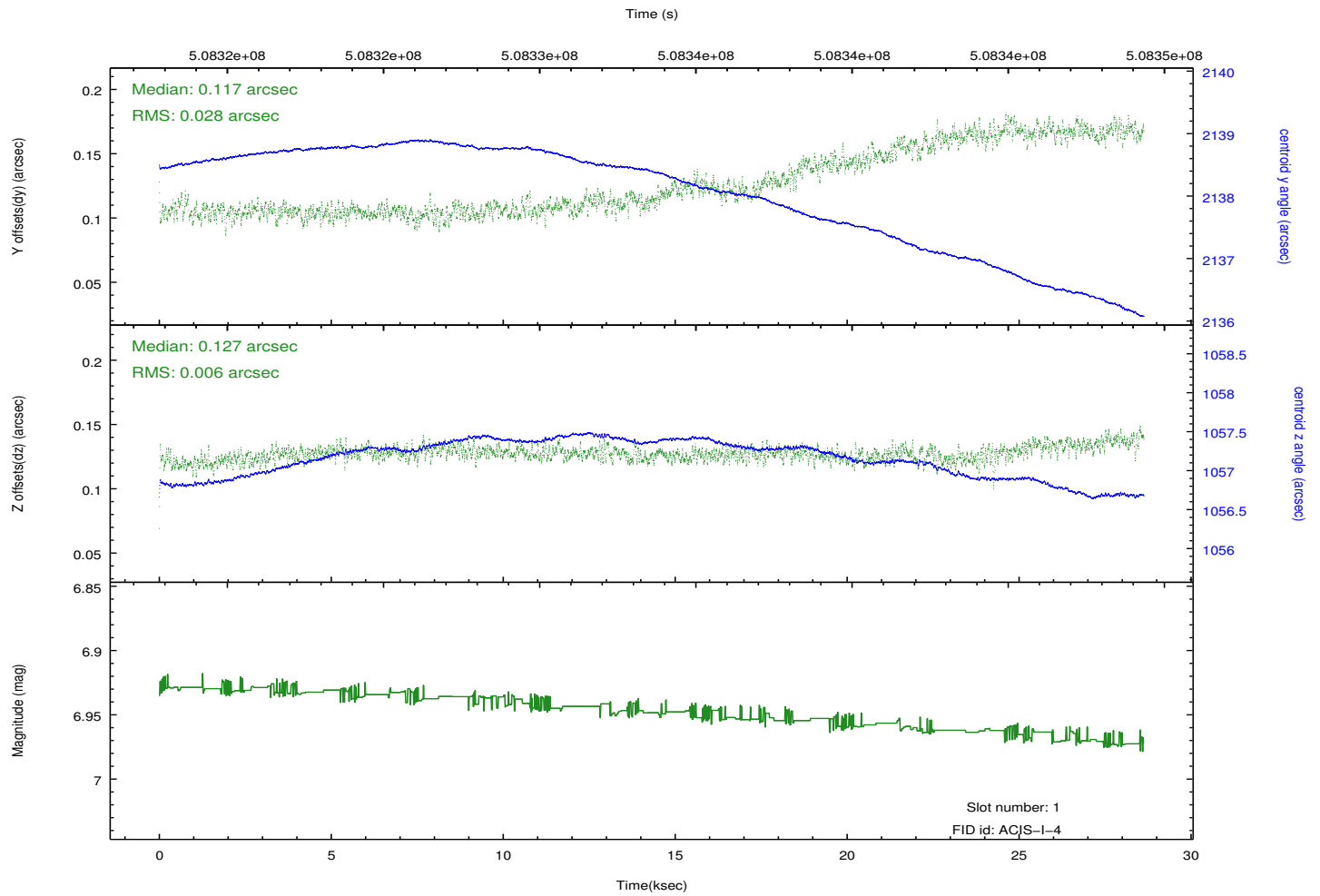
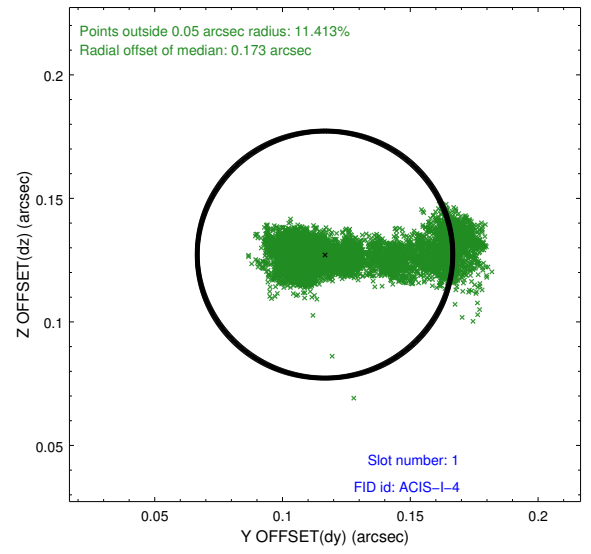
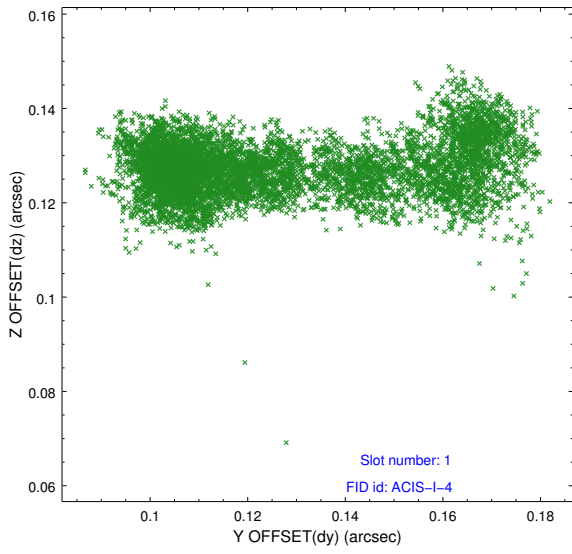


2.5 FID Slots

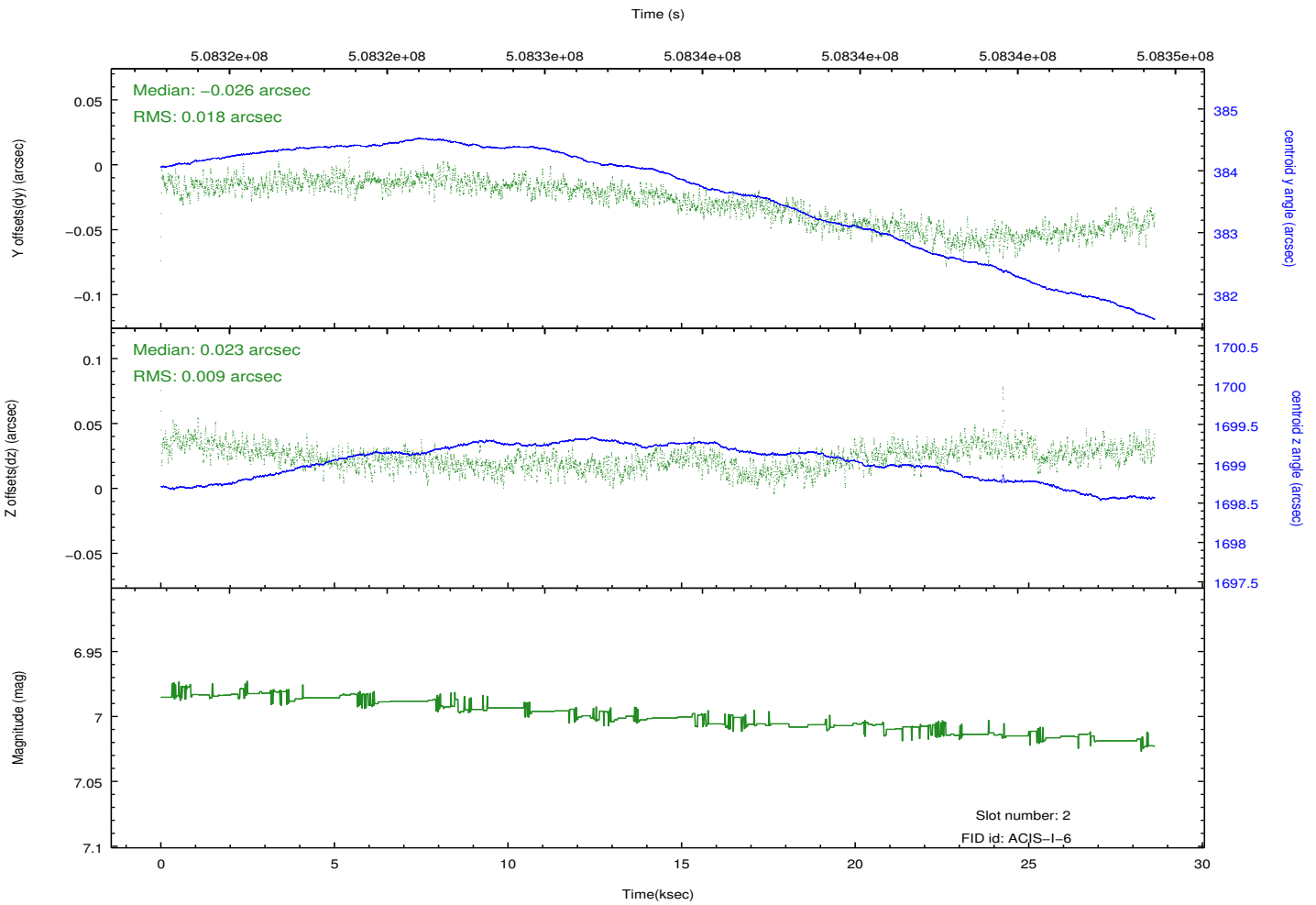
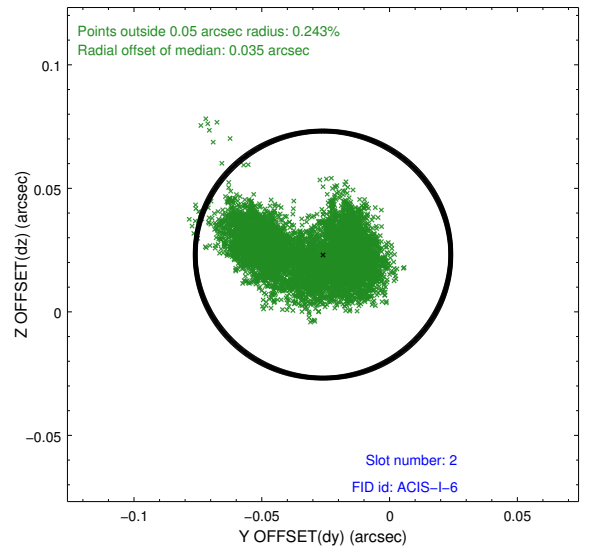
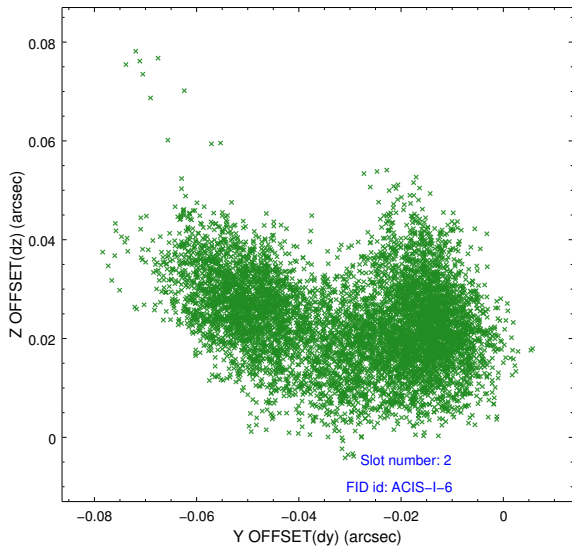
2.5.1 Slot 0



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)	2014.12.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	28.538148614049

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.