

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 14639 - L2 Version 2
Chandra X-Ray Center

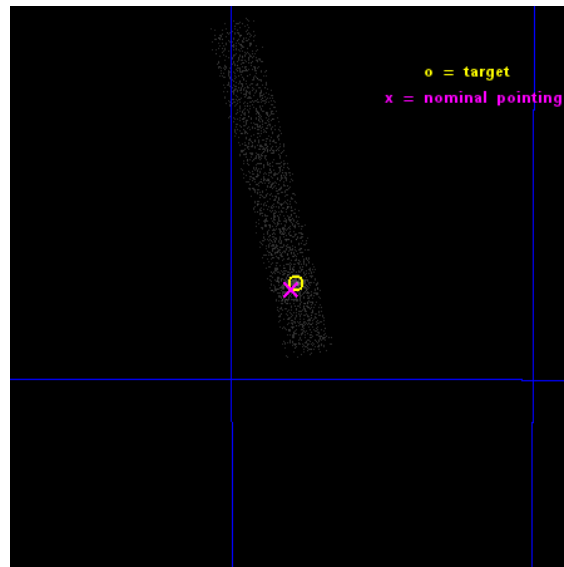
L2 Processing Date : Dec 3 2014

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1 Front

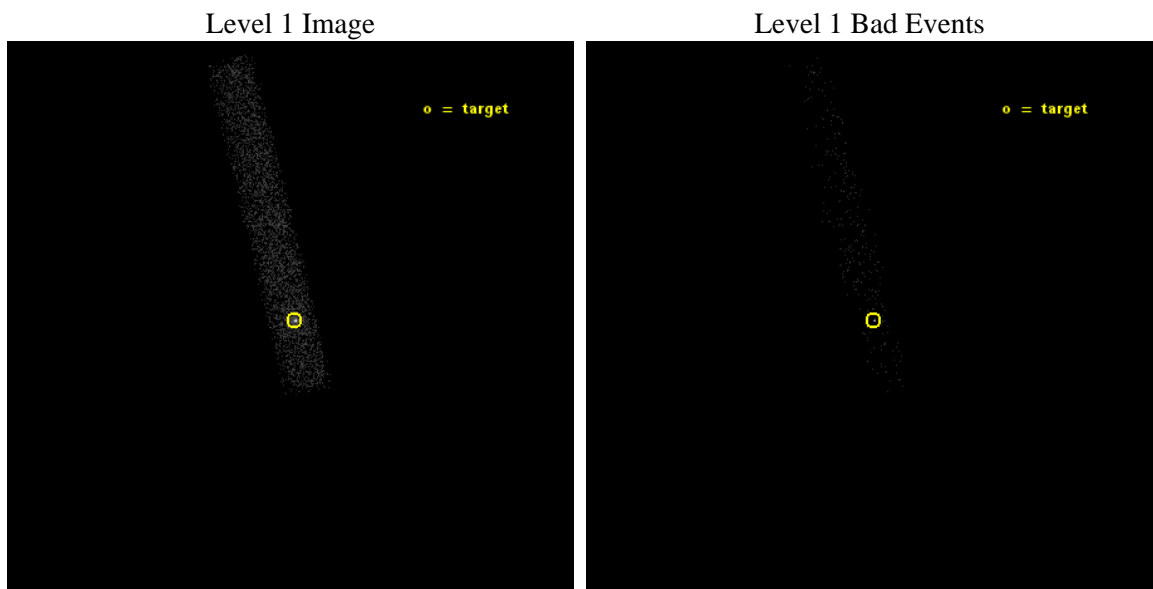
seq_num	401472	Sequence number
obs_id	14639	Observation id
title	A snap-shot survey of Galactic neutron-star Be/X-ray transients in quiescence	Proposal title
observer	Dr. Rudy Wijnands	Principal investigator
object	GRO J1008-57	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	152.445833	Observer's specified target RA [deg]
dec_targ	-58.293639	Observer's specified target Dec [deg]
ra_nom	152.44997774935	Nominal RA [deg]
dec_nom	-58.295896554286	Nominal Dec [deg]
roll_nom	255.9582796394	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5069.1996978521	Sum of GTIs [s]
livetime	4597.4965516526	Livetime [s]
ontime7	5069.1996978521	Sum of GTIs [s]
l2events	5637	Number of level 2 events



2 OBI

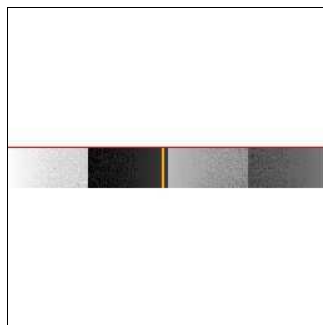
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	5069.1996978521	Sum of GTIs [s]
caldbver	4.6.4	 	ontime7	5069.1996978521	Sum of GTIs [s]
date	2014-12-03T08:59:12	Date and time of file creation	l1events	8257	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

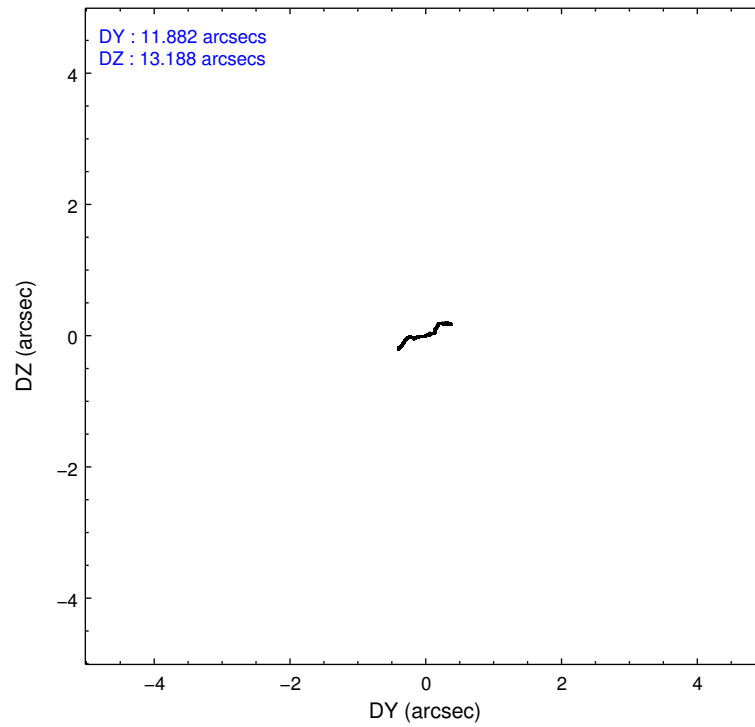
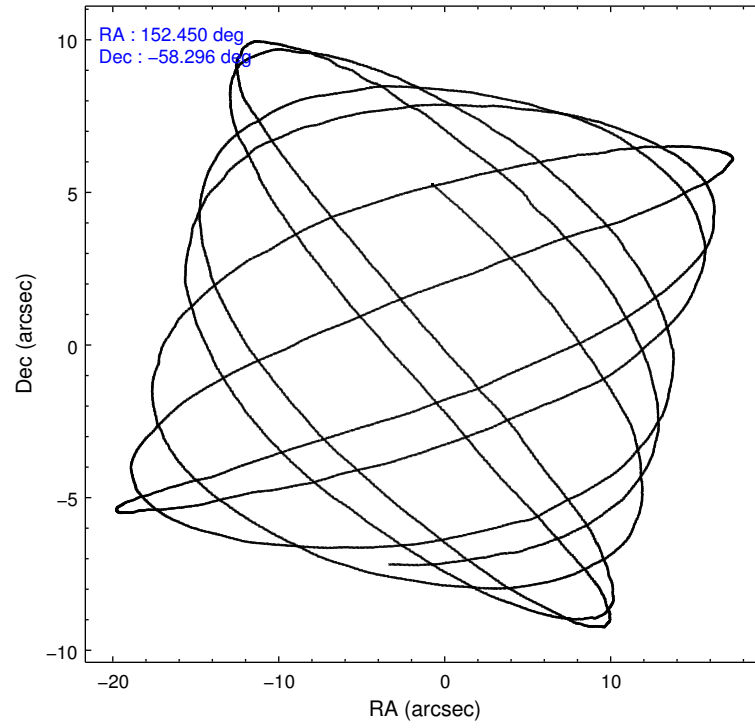
	ccd 7
level 1 events	8257
rejected events	2527
rejected %	30%

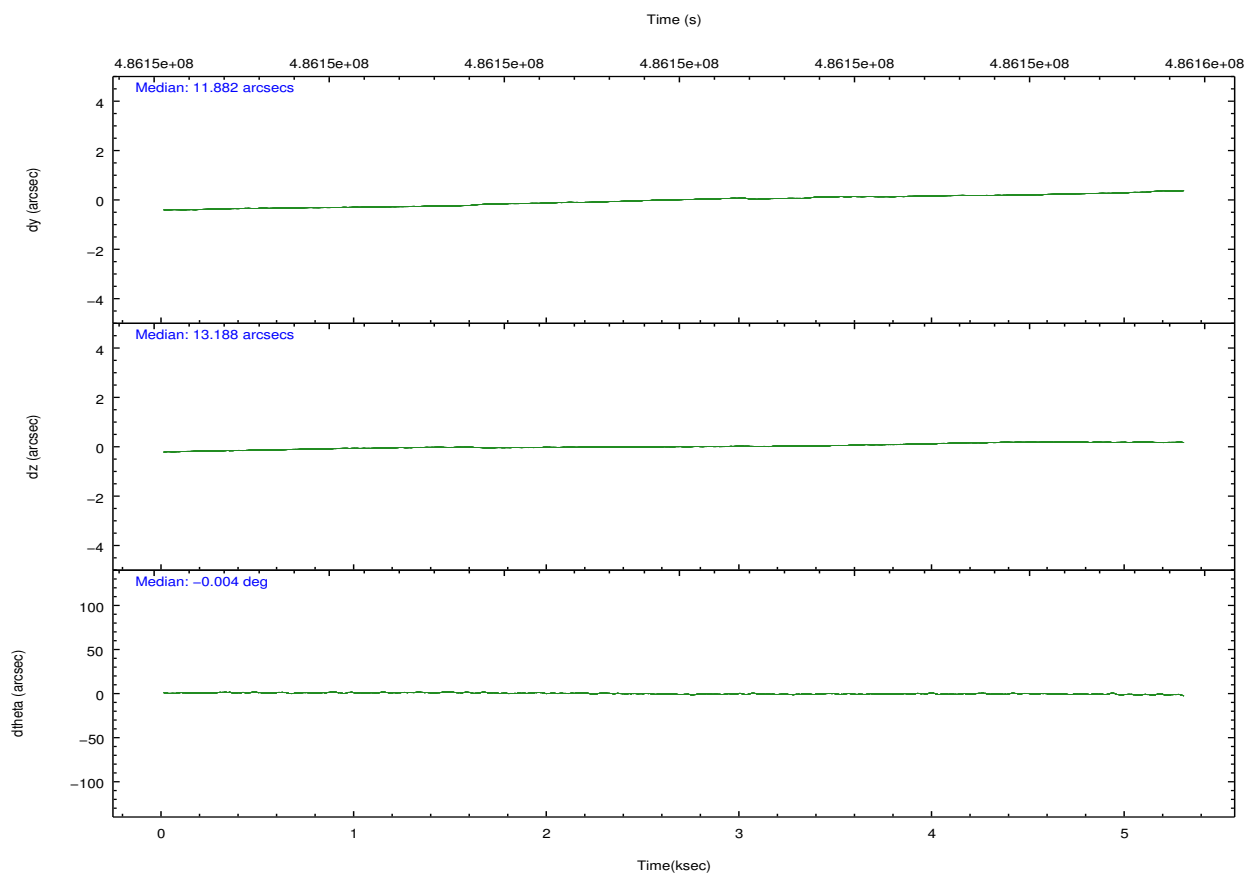
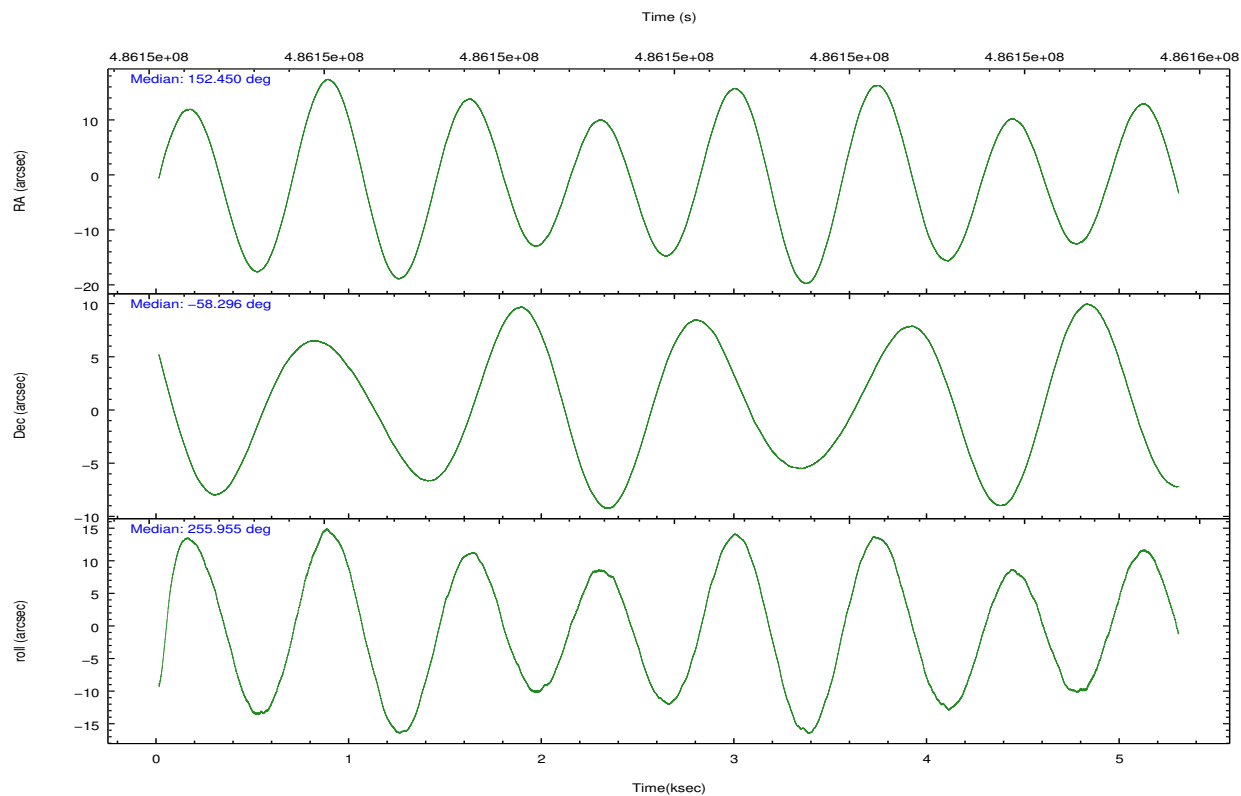
	ccd 7
grade 0 events	895
	10%
grade 1 events	27
	0%
grade 2 events	1284
	15%
grade 3 events	687
	8%
grade 4 events	658
	7%
grade 5 events	563
	6%
grade 6 events	2206
	26%
grade 7 events	1937
	23%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	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	152.434823	152.4499777493543	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-58.269644	-58.295896554286	Subarray start row	449	449
[deg] Pointing Roll	255.788761	255.9582796394043	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	486149621.184000	486148998.04404			
Observation start date	2013-05-28T17:32:34	2013-05-28T17:23:18			
[s] Observation end time (MET)	486154621.184000	486155158.80687			
Observation end date	2013-05-28T18:55:54	2013-05-28T19:05:58			
Read mode	TIMED	TIMED			

2.3 Aspect



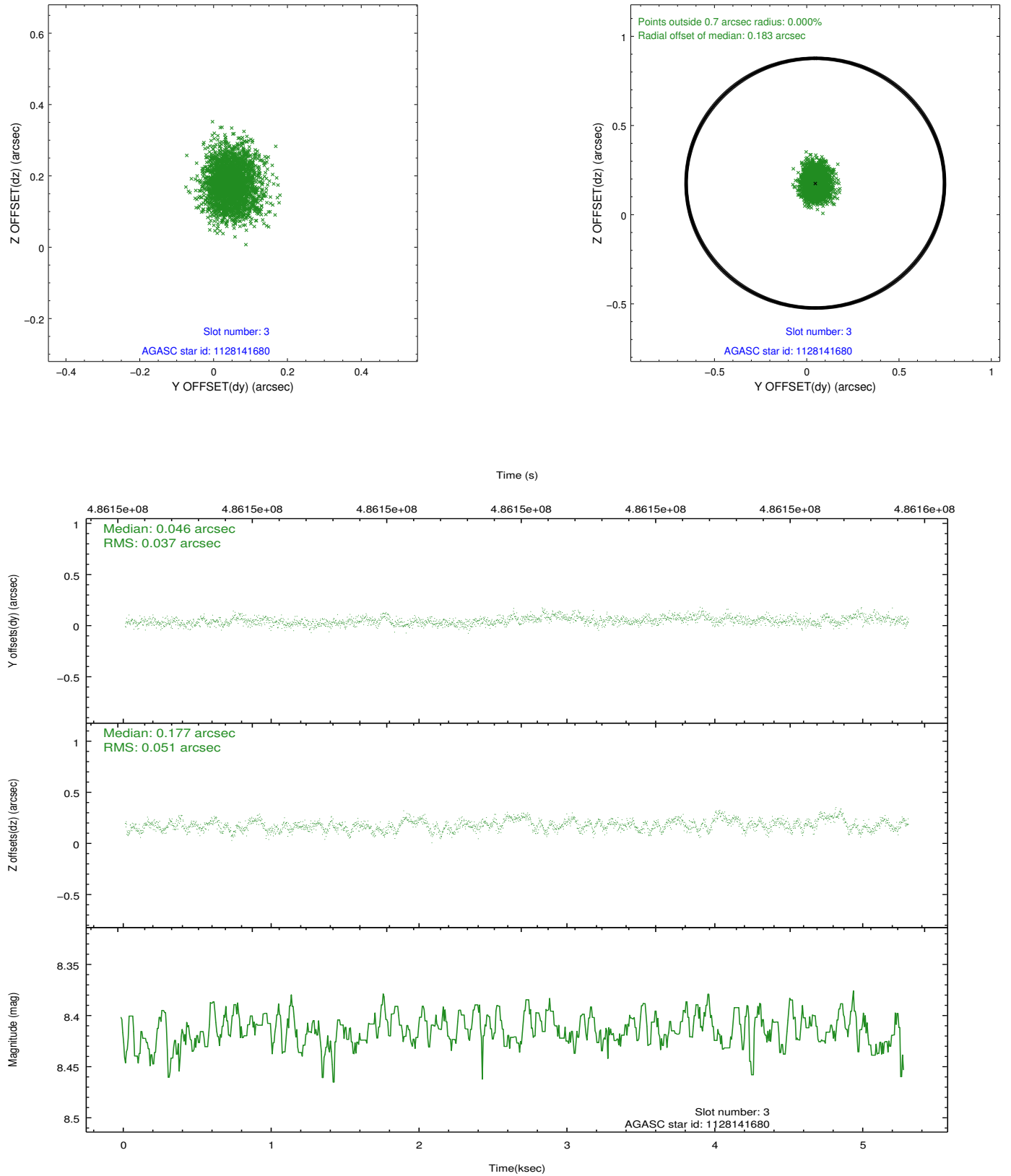


Slot Statistics

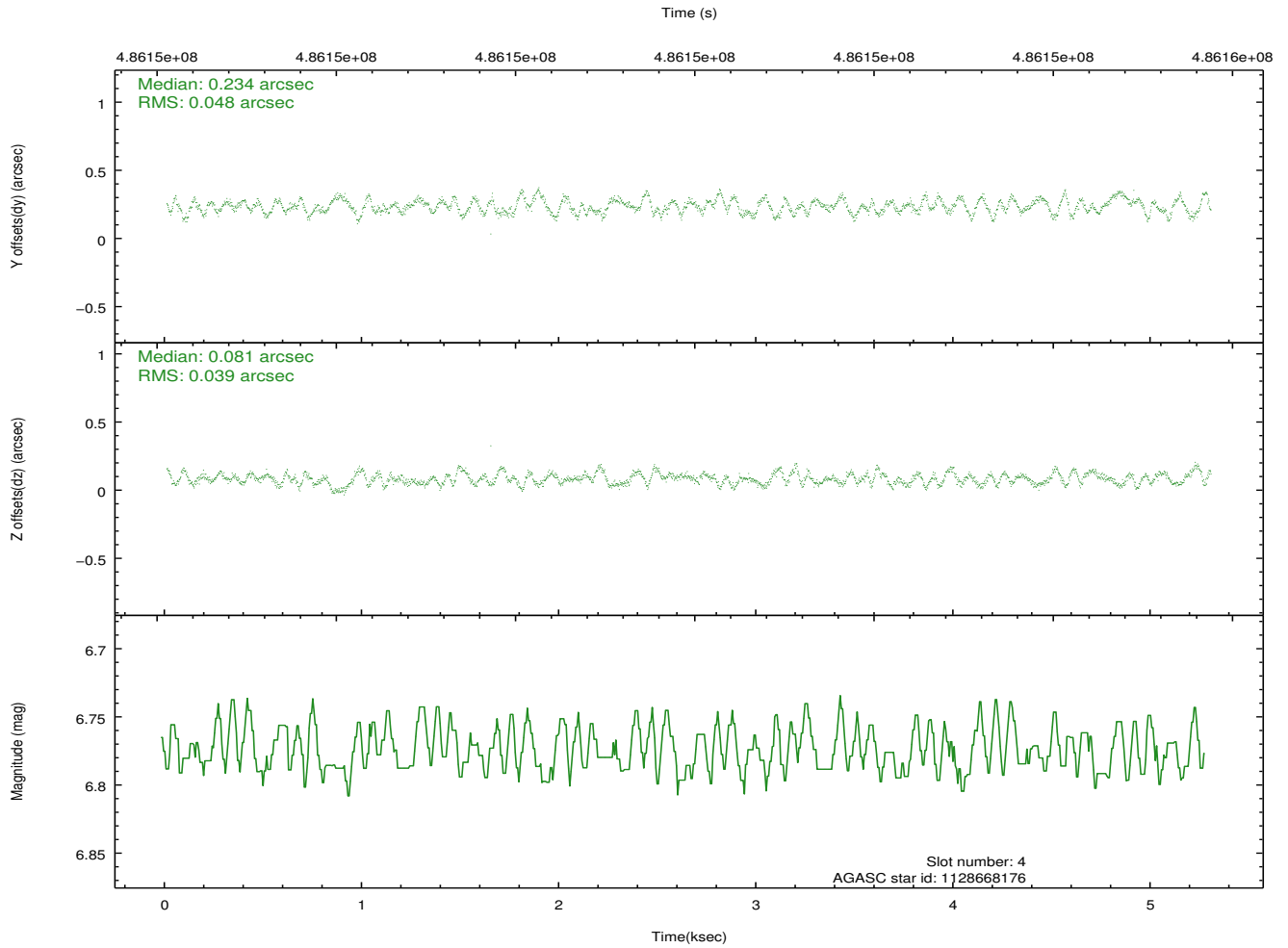
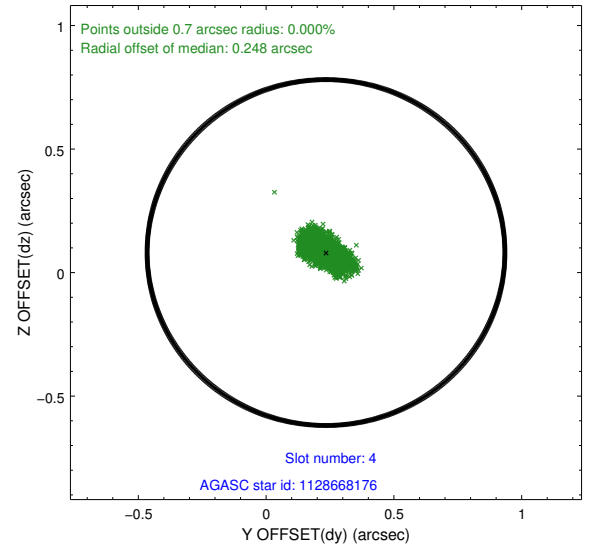
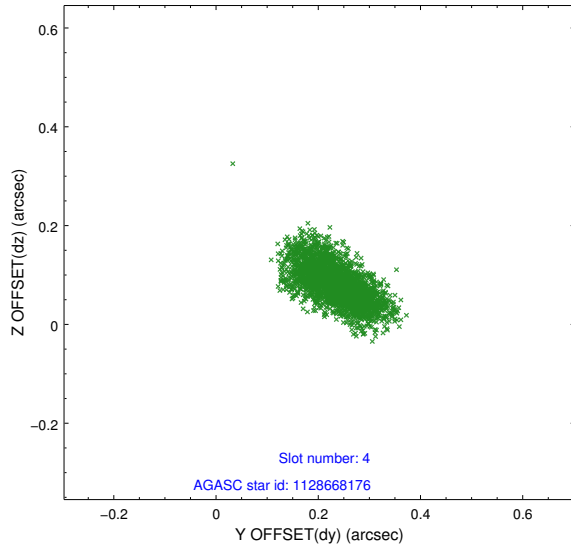
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.09	1292	0.072	-0.019	0.013	0.020	0.000000	0.000000	931.34	-1730.21
1	FID		ACIS-S-4	7.08	1292	0.094	-0.016	0.011	0.016	0.000000	0.000000	2149.43	172.77
2	FID		ACIS-S-5	7.11	1292	-0.193	0.049	0.008	0.014	0.000000	0.000000	-1816.30	167.77
3	GUIDE	used	1128141680	8.41	2583	0.046	0.177	0.068	0.110	151.879182	-57.549956	-2243.55	-1675.67
4	GUIDE	used	1128668176	6.78	2584	0.234	0.081	0.066	0.108	152.075503	-58.198582	-79.32	-723.94
5	GUIDE	used	1128671456	8.24	2584	-0.137	-0.084	0.070	0.115	152.993016	-58.955233	2142.27	1611.22
6	GUIDE	used	1128677912	8.32	2583	-0.034	-0.054	0.068	0.115	151.272365	-58.696390	2042.36	-1725.49
7	GUIDE	used	1128137016	8.73	2580	-0.112	-0.121	0.069	0.108	153.049284	-57.884001	-1628.56	799.42

2.4 Star Slots

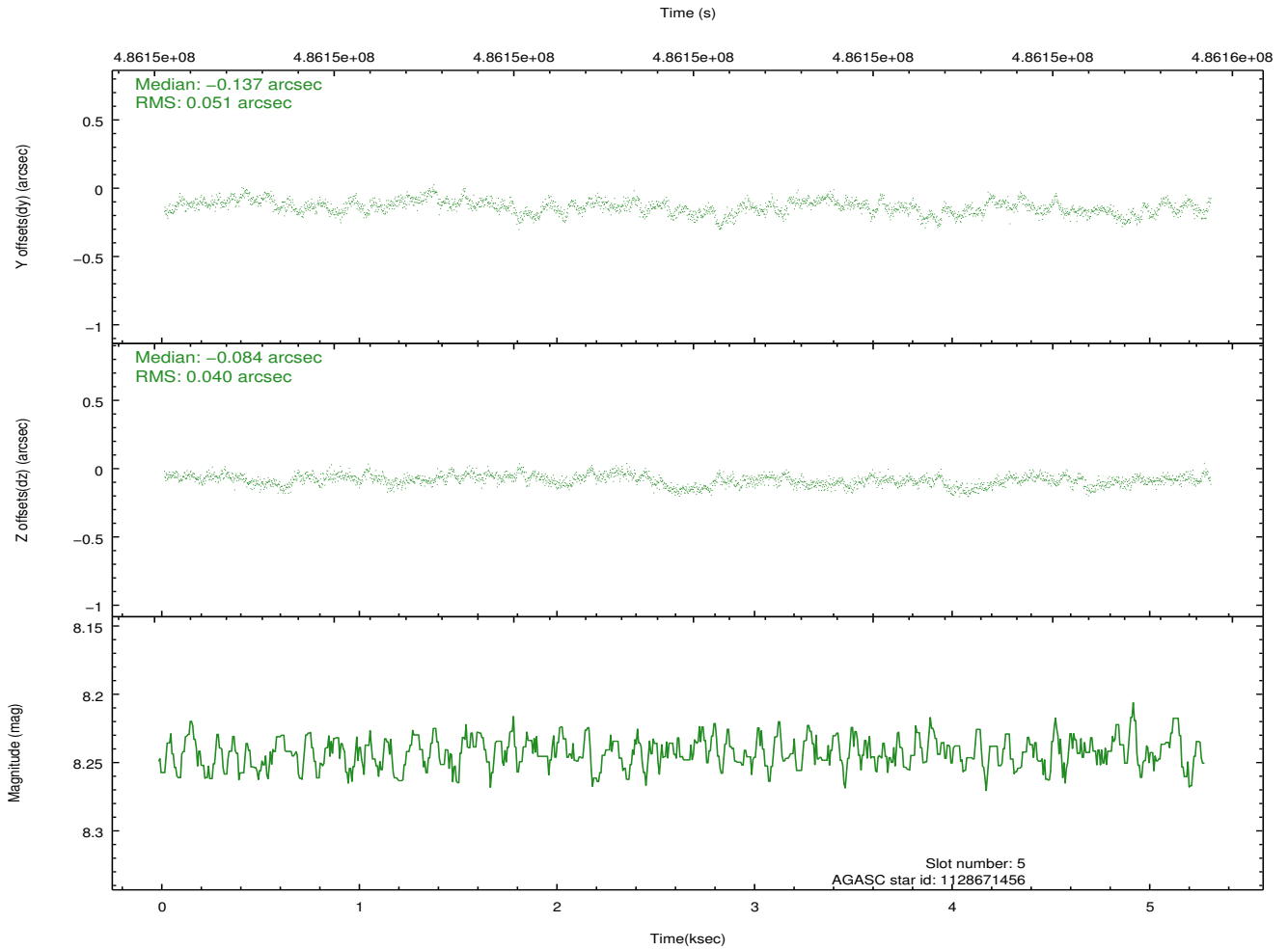
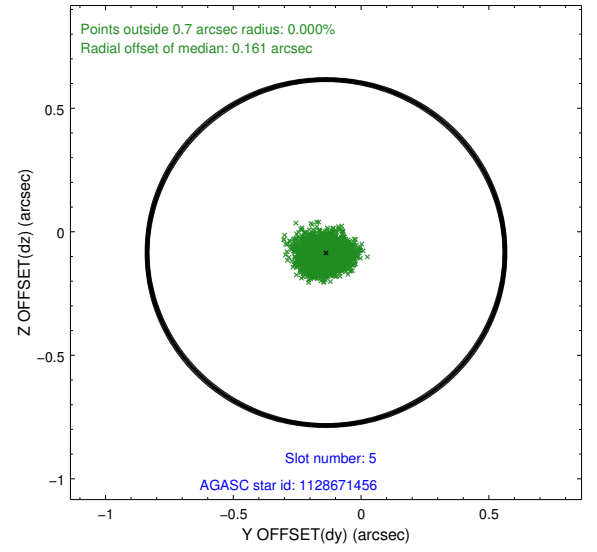
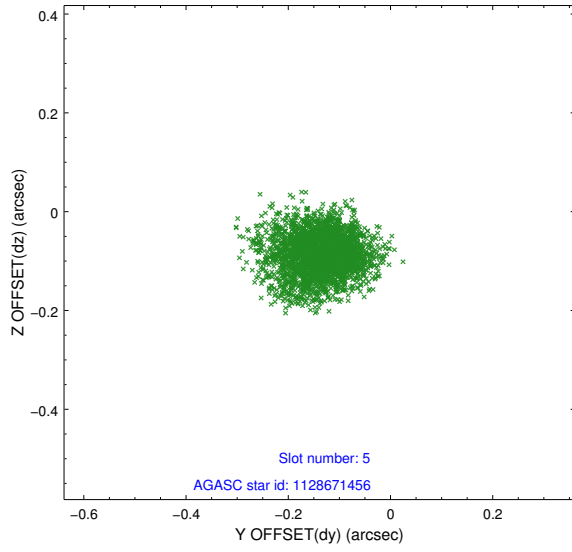
2.4.1 Slot 3



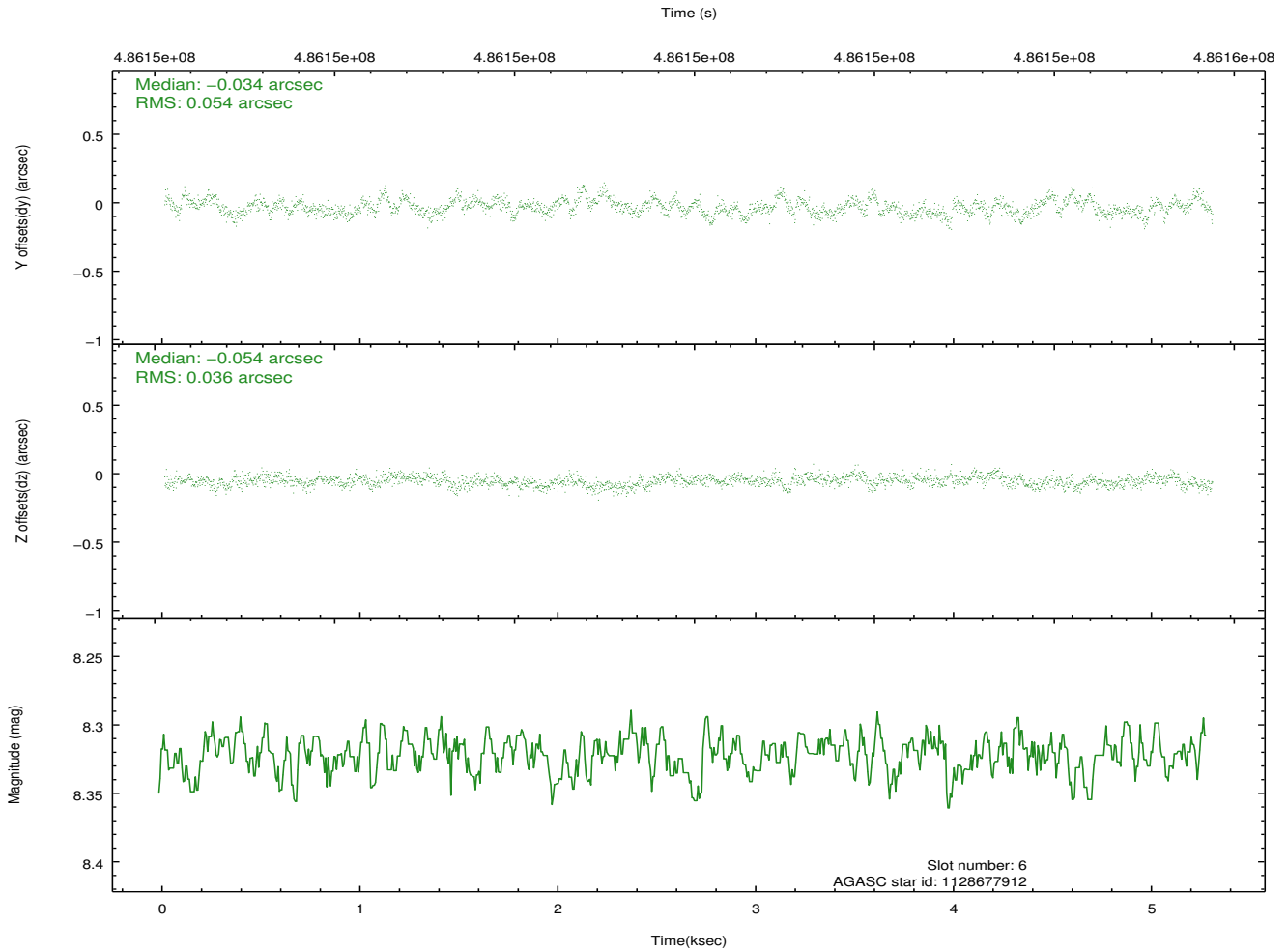
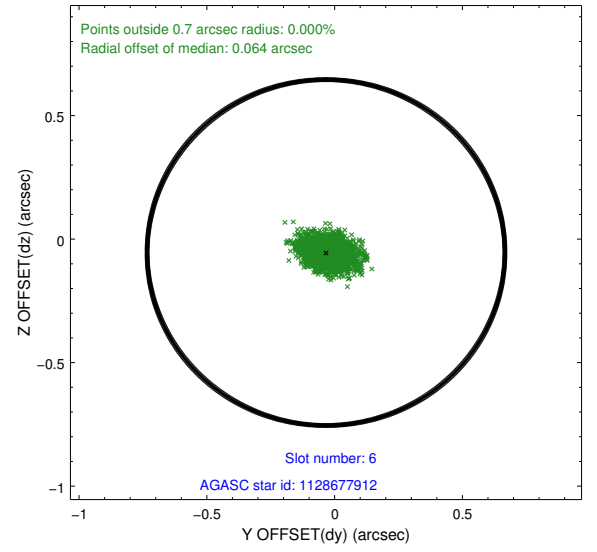
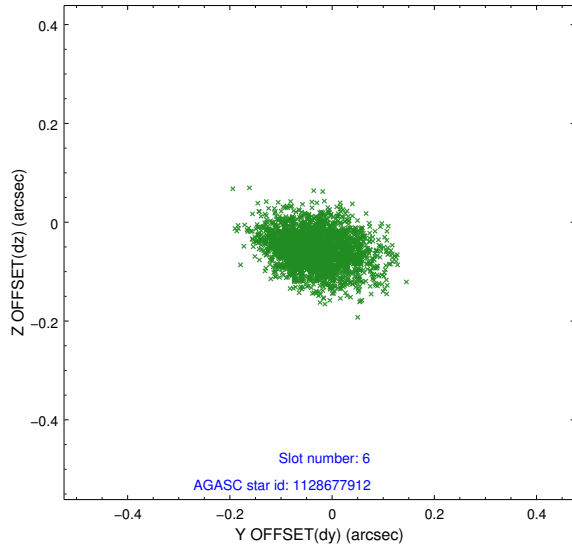
2.4.2 Slot 4



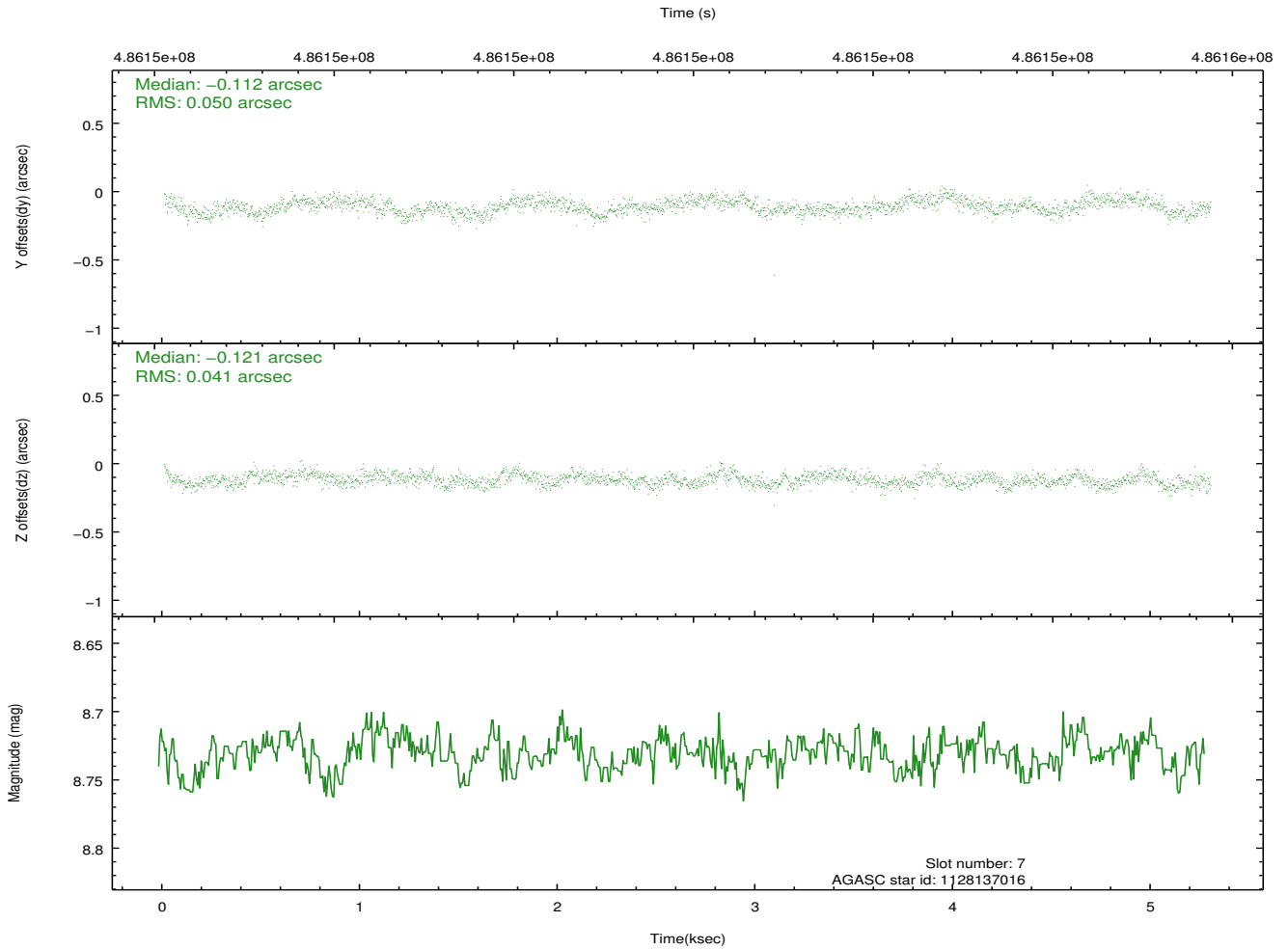
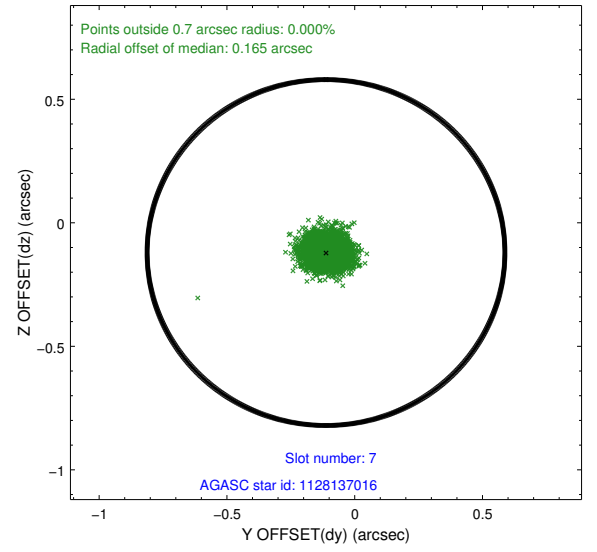
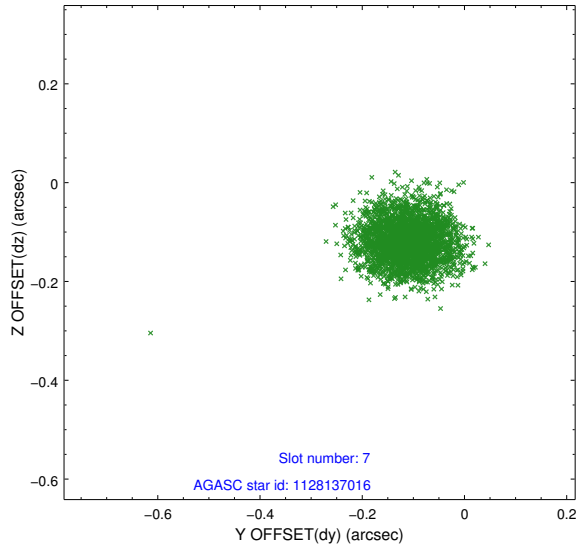
2.4.3 Slot 5



2.4.4 Slot 6

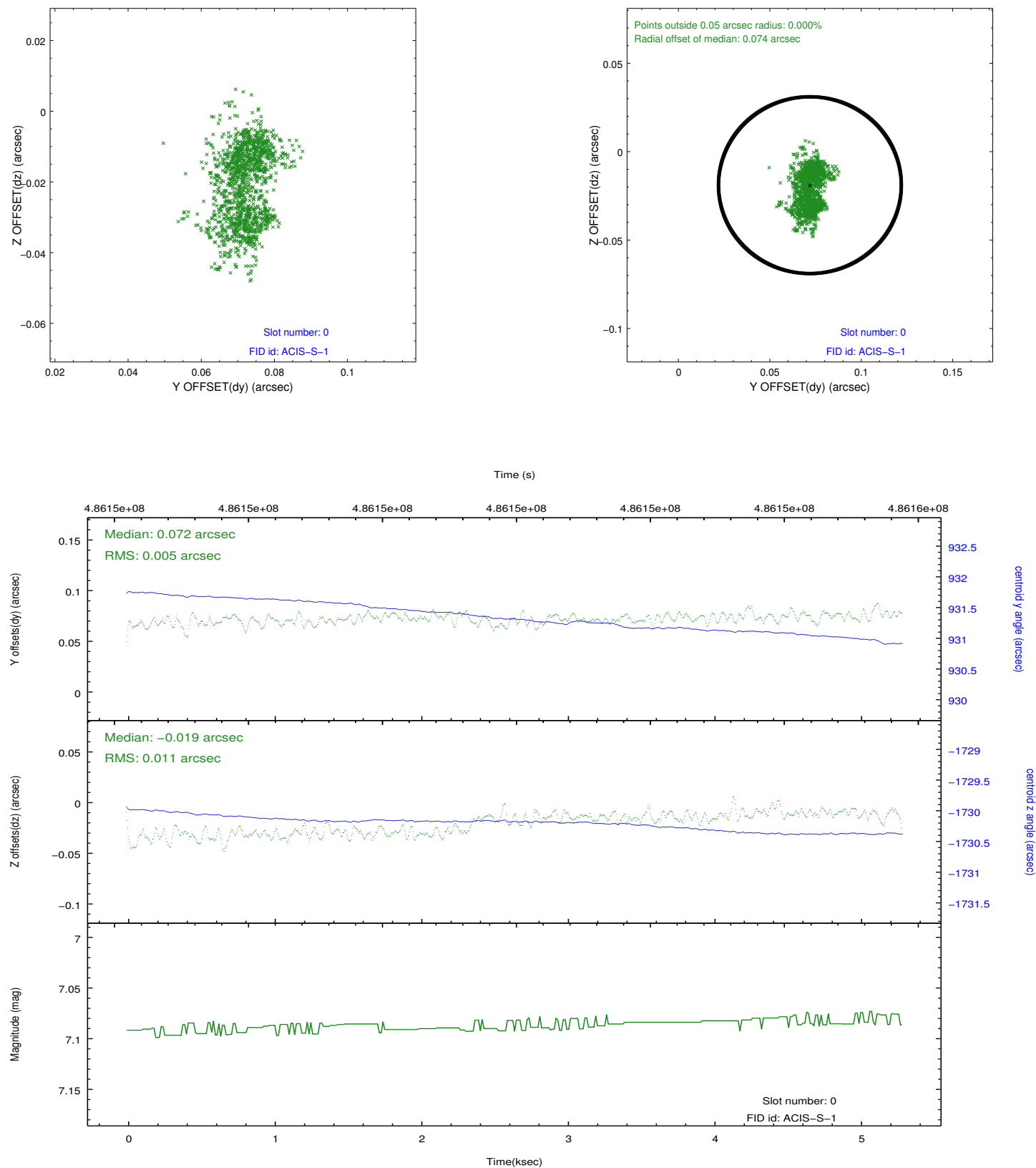


2.4.5 Slot 7

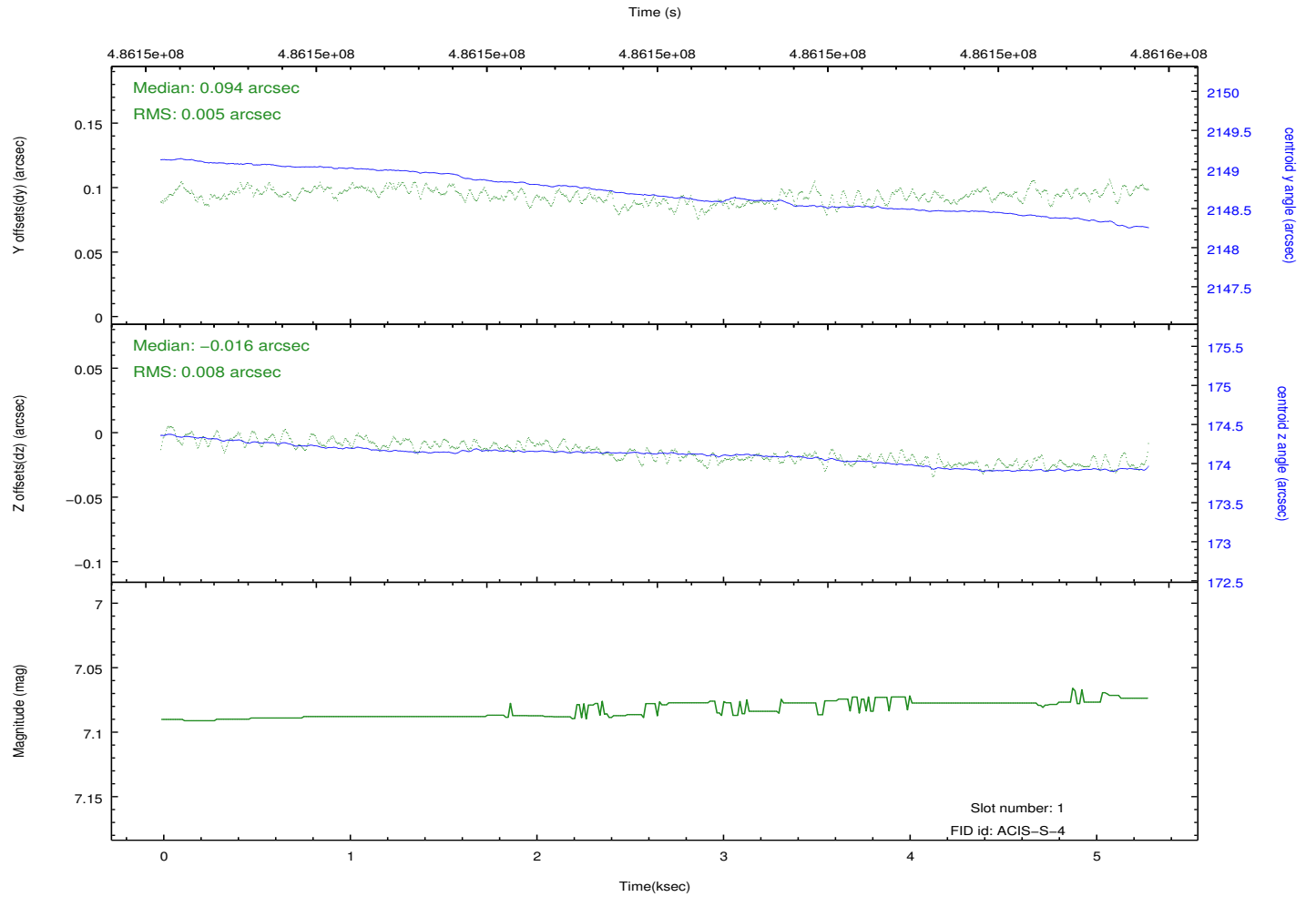
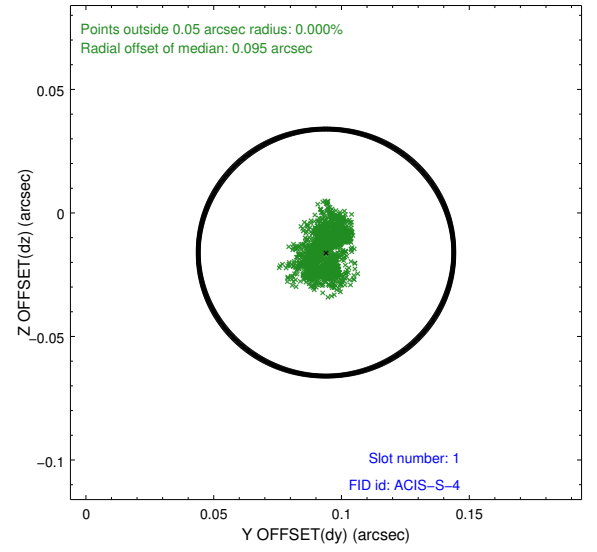
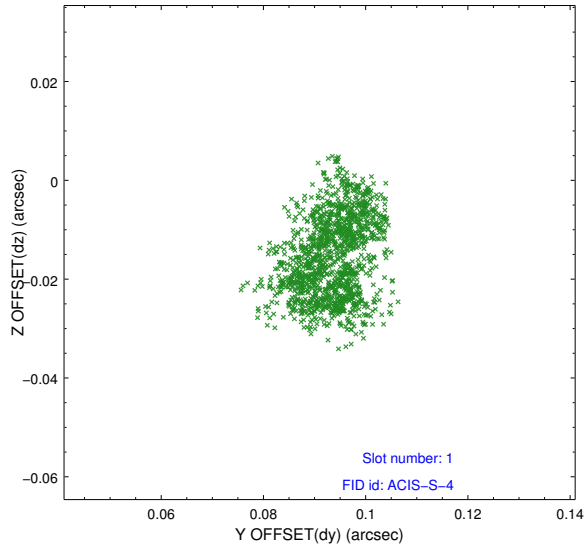


2.5 FID Slots

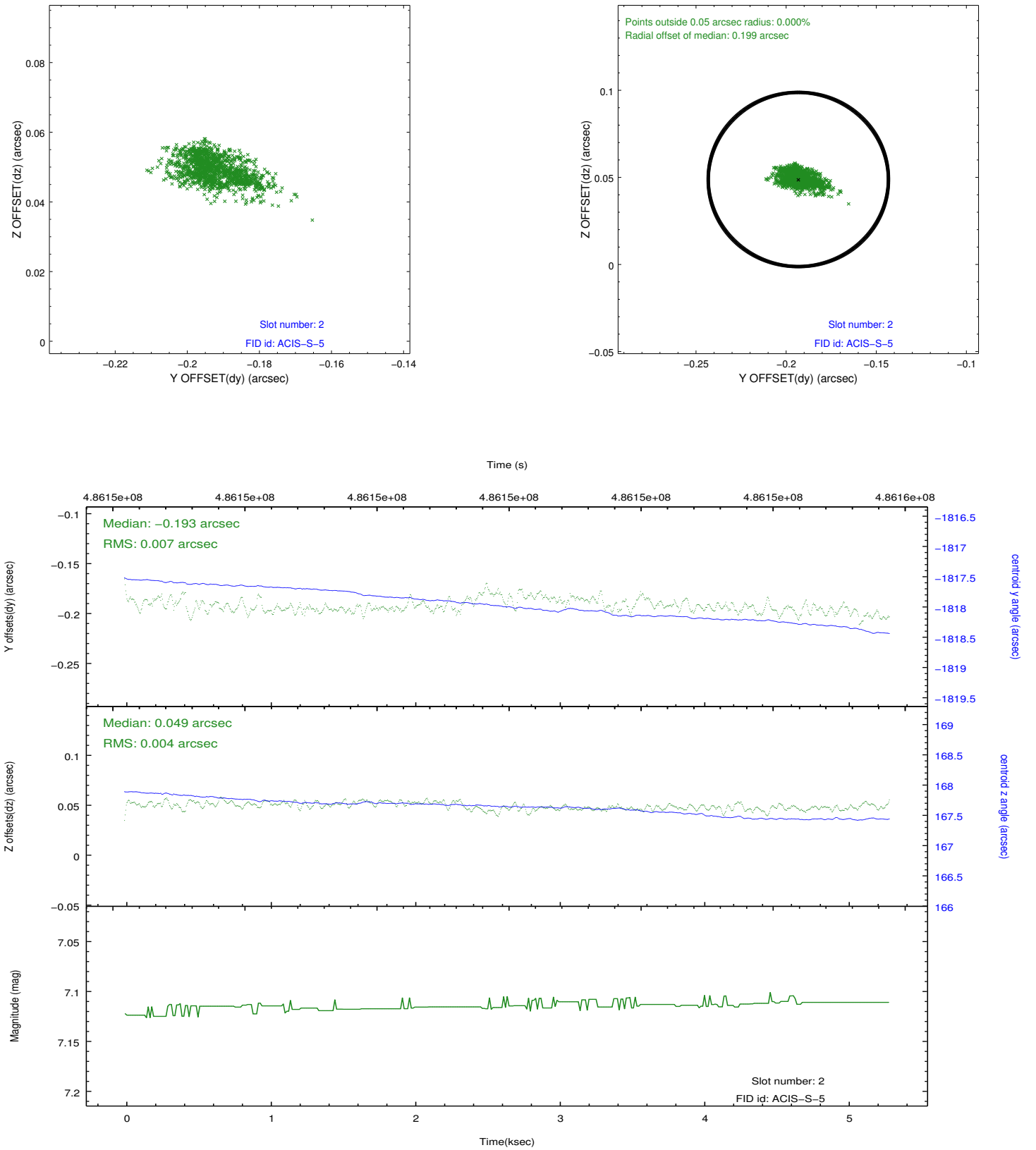
2.5.1 Slot 0



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)	2014.12.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0691996978521

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.