

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 14641 - L2 Version 2
Chandra X-Ray Center

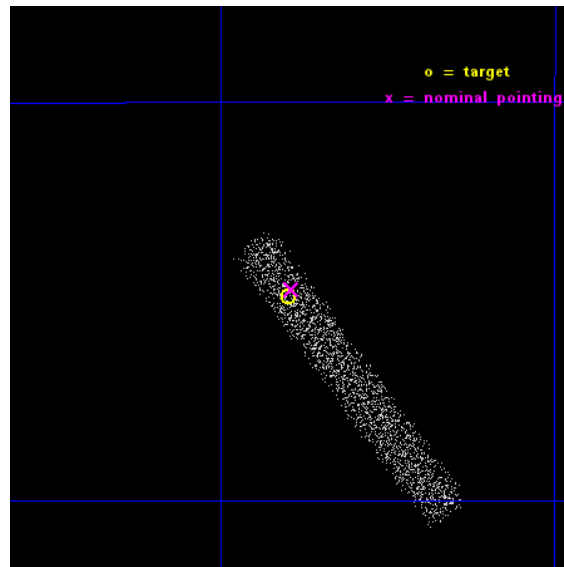
L2 Processing Date : Dec 2 2014

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1 Front

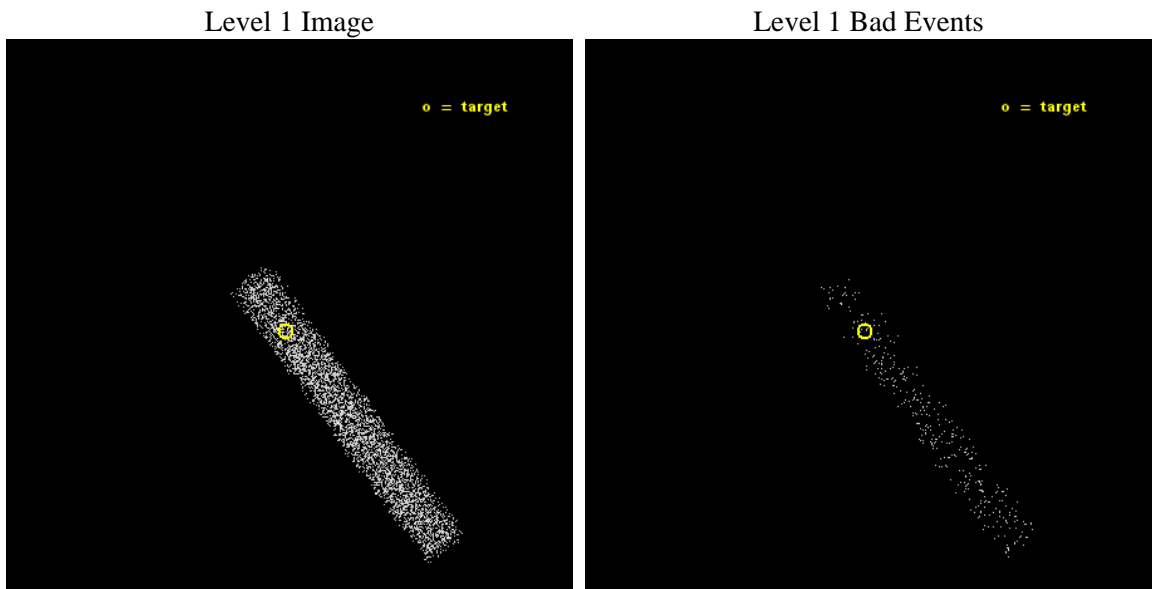
seq_num	401474	Sequence number
obs_id	14641	Observation id
title	A snap-shot survey of Galatic neutron-star Be/X-ray transients in quiescence	Proposal title
observer	Dr. Rudy Wijnands	Principal investigator
object	2S 1553-542	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	239.44875	Observer's specified target RA [deg]
dec_targ	-54.414556	Observer's specified target Dec [deg]
ra_nom	239.44698721747	Nominal RA [deg]
dec_nom	-54.411695904398	Nominal Dec [deg]
roll_nom	52.905111949017	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5070.3996977806	Sum of GTIs [s]
livetime	4598.5848882465	Livetime [s]
ontime7	5070.3996977806	Sum of GTIs [s]
l2events	2397	Number of level 2 events



2 OBI

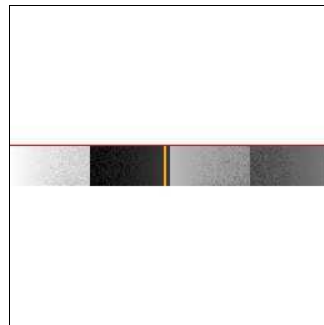
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	5070.3996977806	Sum of GTIs [s]
caldbver	4.6.4	 	ontime7	5070.3996977806	Sum of GTIs [s]
date	2014-12-02T16:04:11	Date and time of file creation	l1events	5075	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

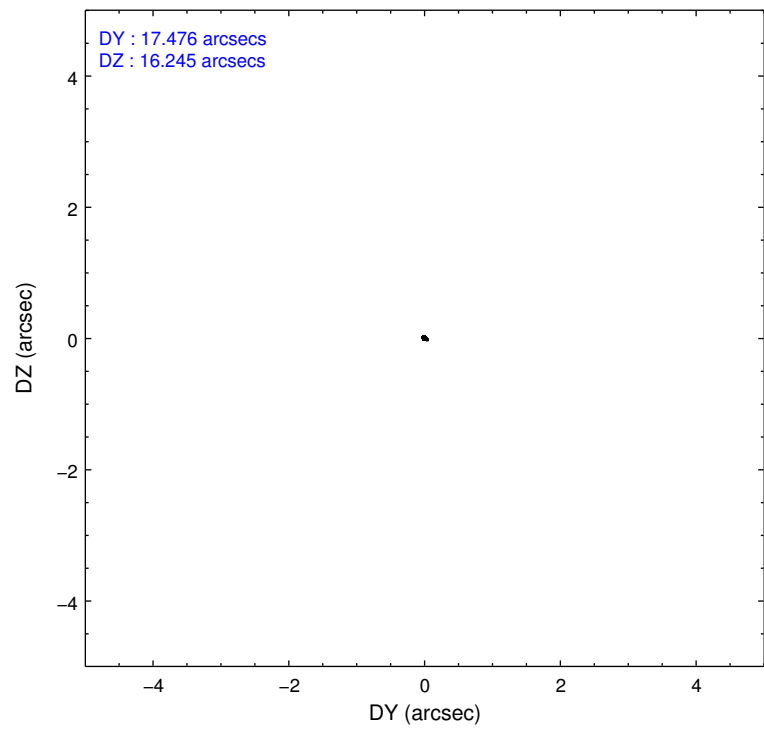
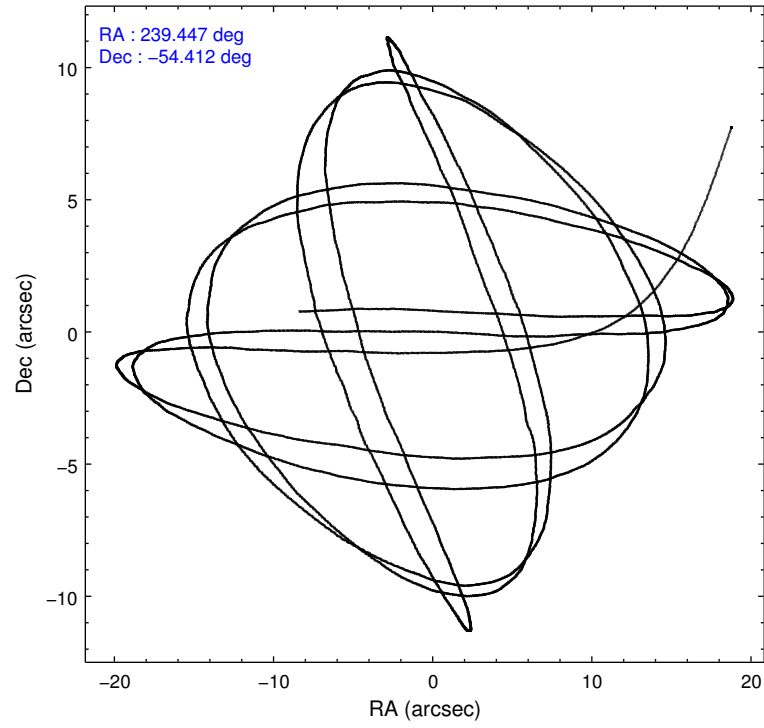
	ccd 7
level 1 events	5075
rejected events	2565
rejected %	50%

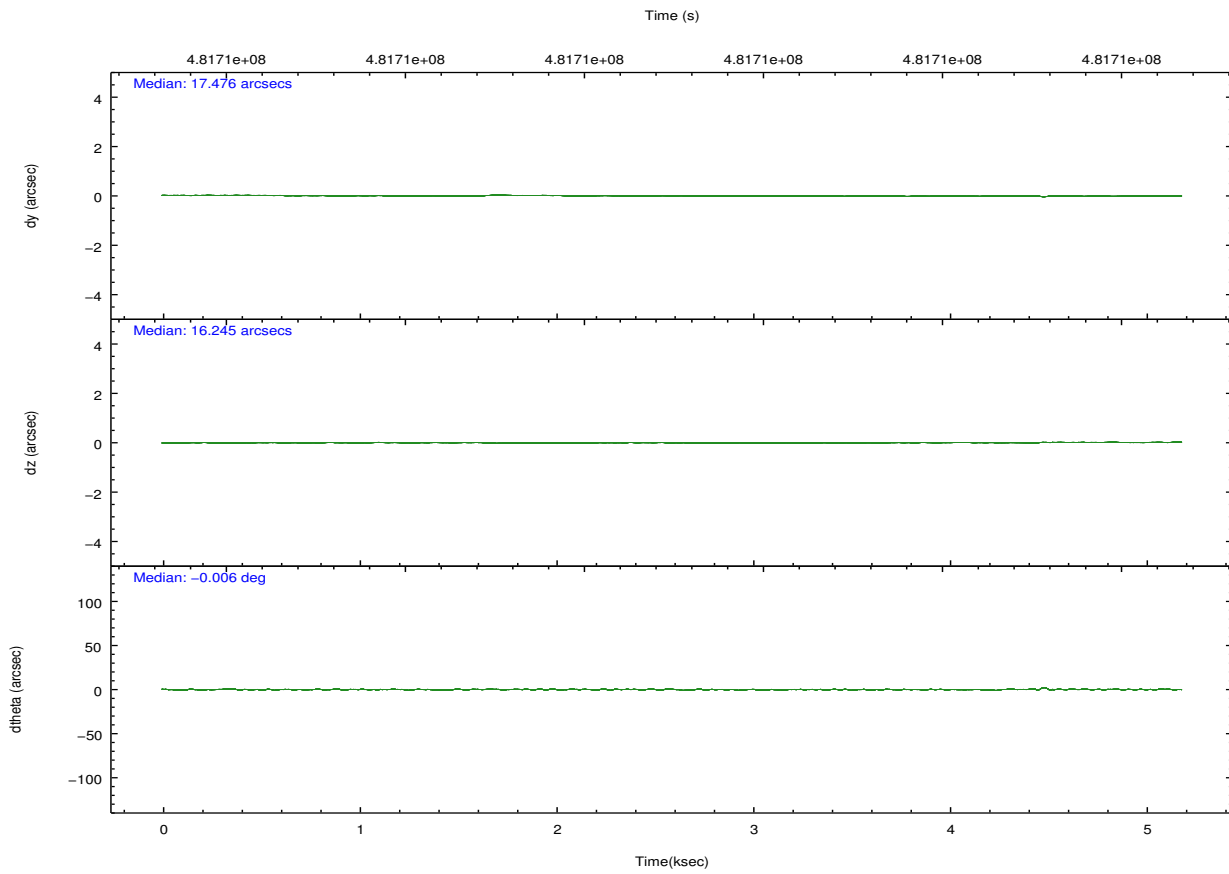
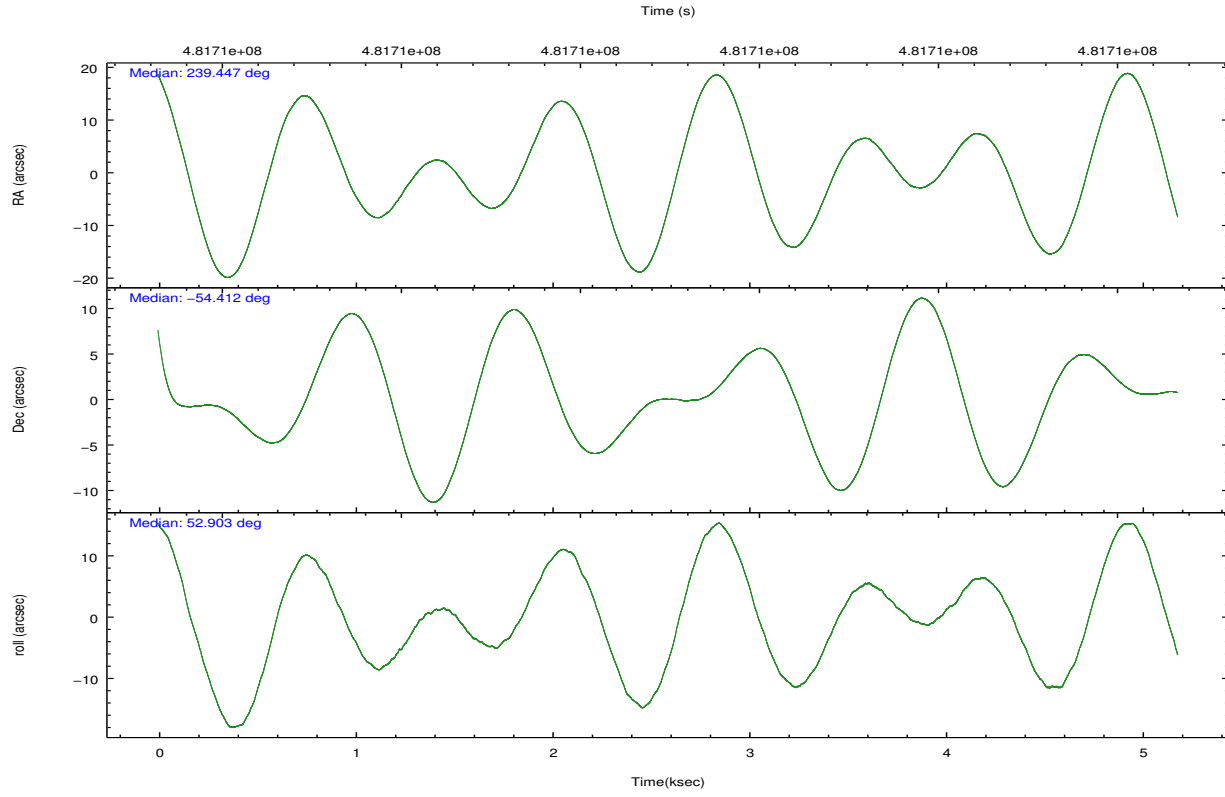
	ccd 7
grade 0 events	262
	5%
grade 1 events	4
	0%
grade 2 events	454
	8%
grade 3 events	356
	7%
grade 4 events	319
	6%
grade 5 events	508
	10%
grade 6 events	1121
	22%
grade 7 events	2051
	40%

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	239.441768	239.4469872174673	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-54.438899	-54.41169590439763	Subarray start row	449	449
[deg] Pointing Roll	52.744243	52.90511194901735	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)	481709070.184000	481708052.05339			
Observation start date	2013-04-07T08:03:23	2013-04-07T07:47:32			
[s] Observation end time (MET)	481714070.184000	481714808.85375			
Observation end date	2013-04-07T09:26:43	2013-04-07T09:40:08			
Read mode	TIMED	TIMED			

2.3 Aspect





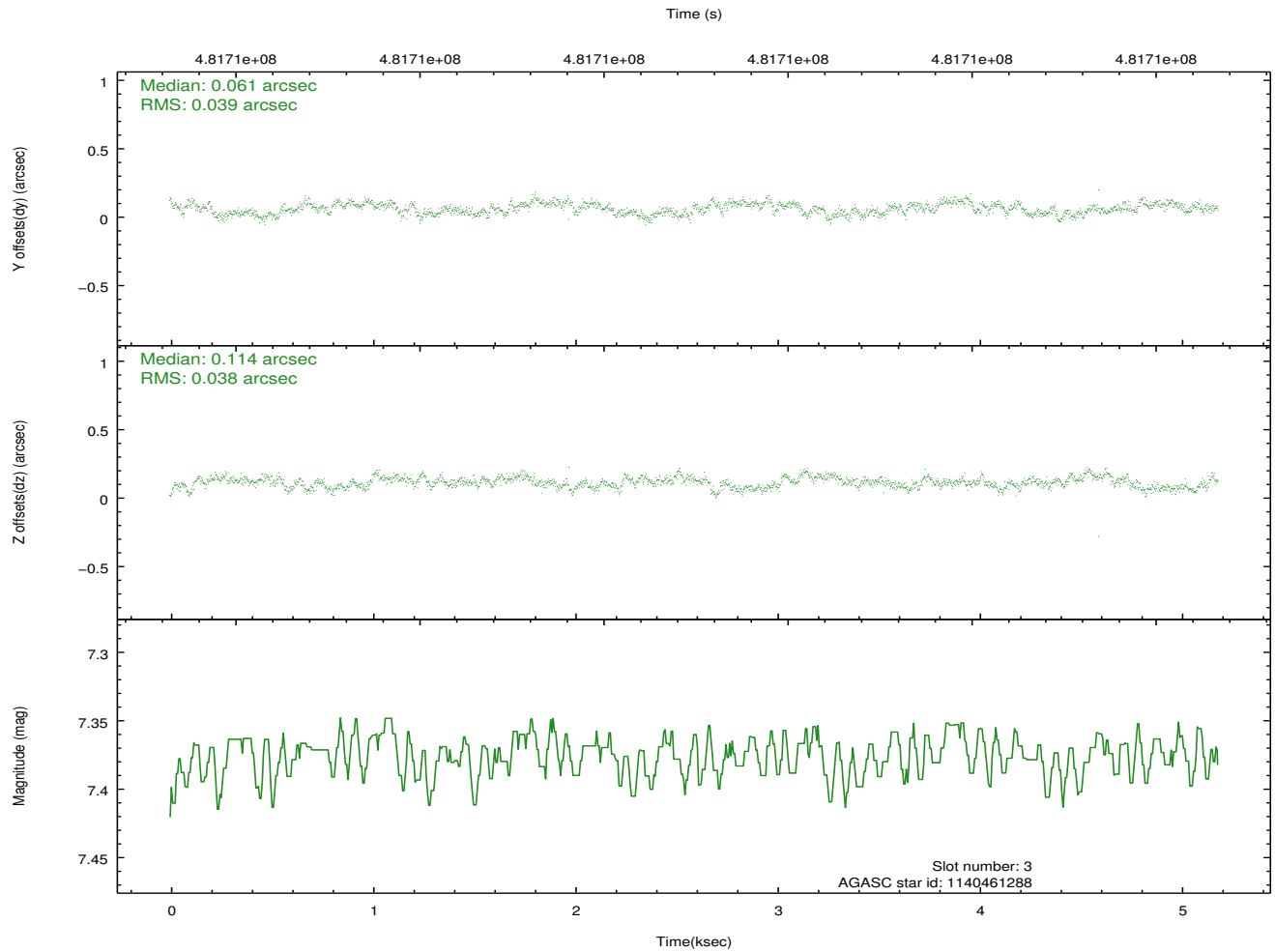
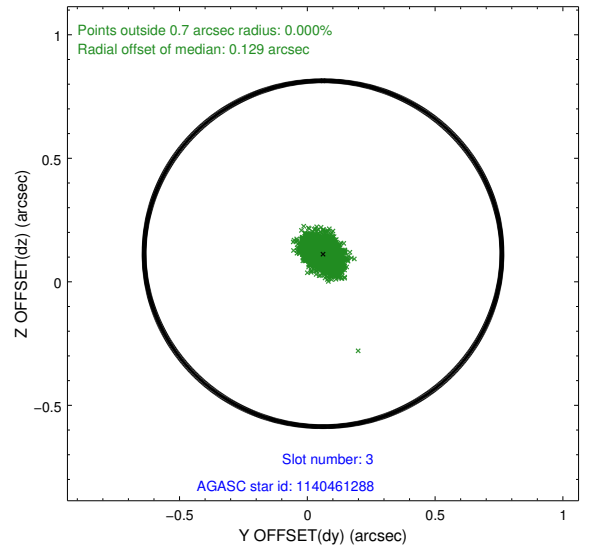
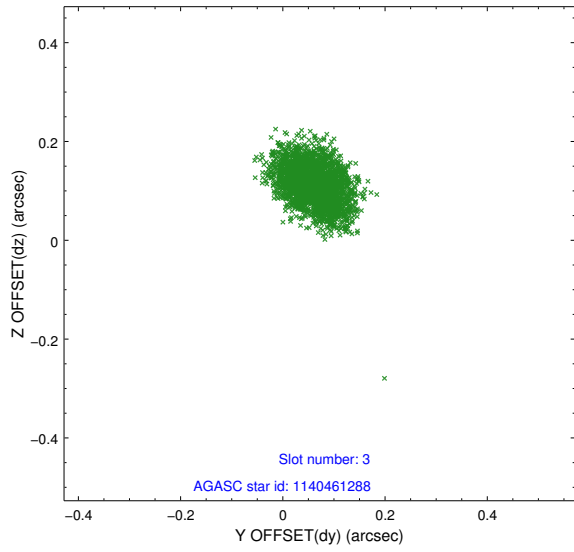
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.14	1265	0.076	-0.108	0.007	0.012	0.000000	0.000000	925.61	-1733.39
1	FID		ACIS-S-4	7.13	1264	0.199	0.043	0.006	0.010	0.000000	0.000000	2143.76	169.73
2	FID		ACIS-S-5	7.17	1265	-0.302	0.078	0.006	0.012	0.000000	0.000000	-1822.17	164.63
3	GUIDE	used	1140461288	7.38	2530	0.061	0.114	0.058	0.092	239.862473	-54.571210	150.52	-988.49
4	GUIDE	used	1140462144	6.93	2530	0.164	0.143	0.048	0.075	239.669780	-54.707652	-483.20	-963.77
5	GUIDE	used	1140466128	8.72	2529	0.315	0.241	0.082	0.128	239.565759	-54.856160	-1039.96	-1114.05
6	GUIDE	used	1139945368	7.33	2529	-0.306	-0.336	0.057	0.092	239.183286	-53.789004	1528.31	1852.58
7	GUIDE	used	1141656336	7.88	2529	-0.234	-0.164	0.063	0.100	240.010053	-53.851498	2409.78	317.41

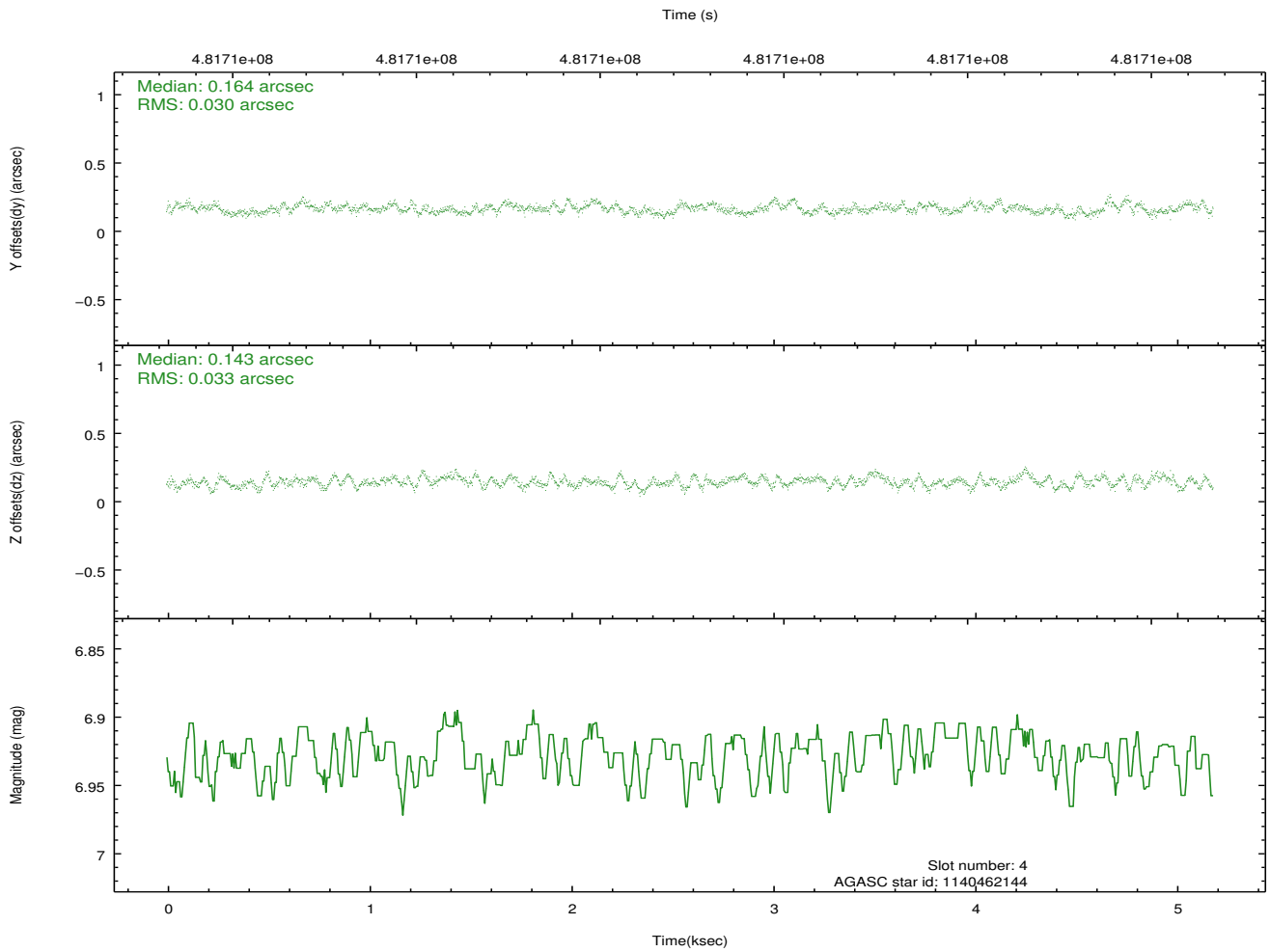
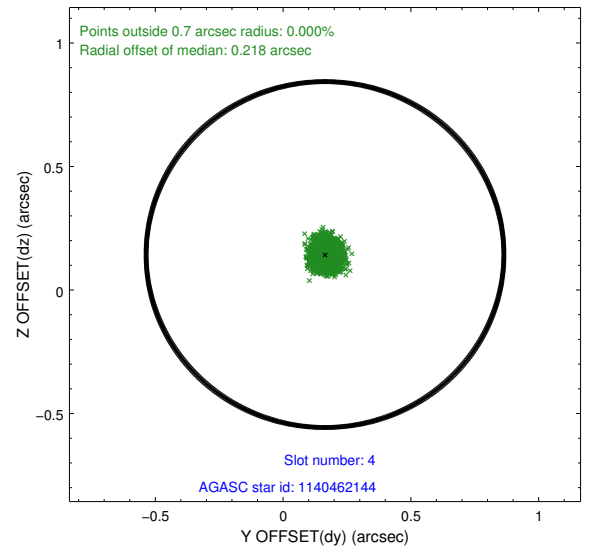
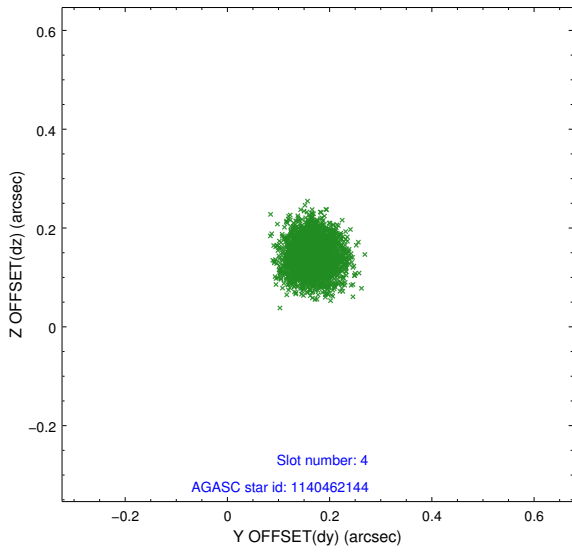
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2.4 Star Slots

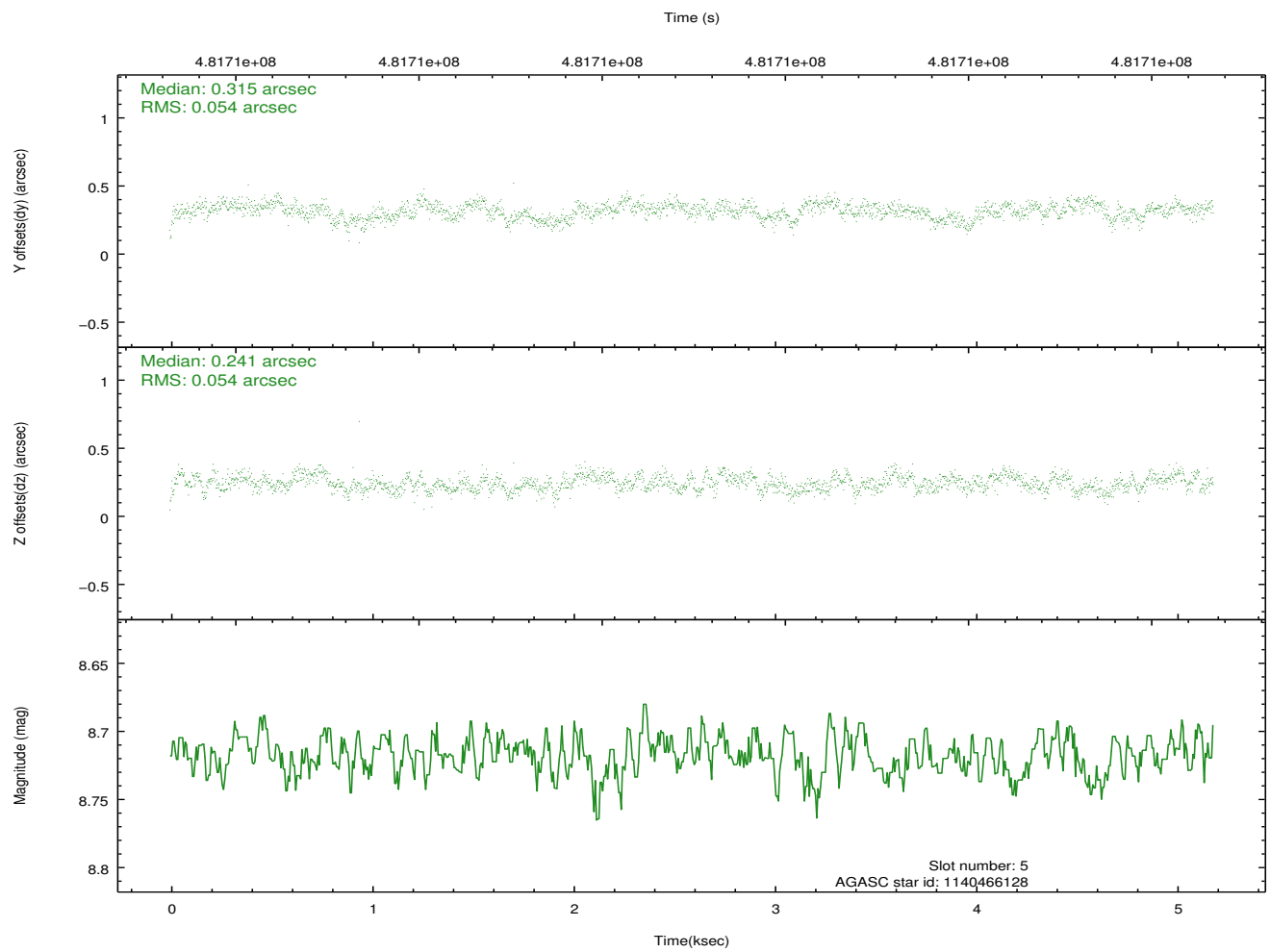
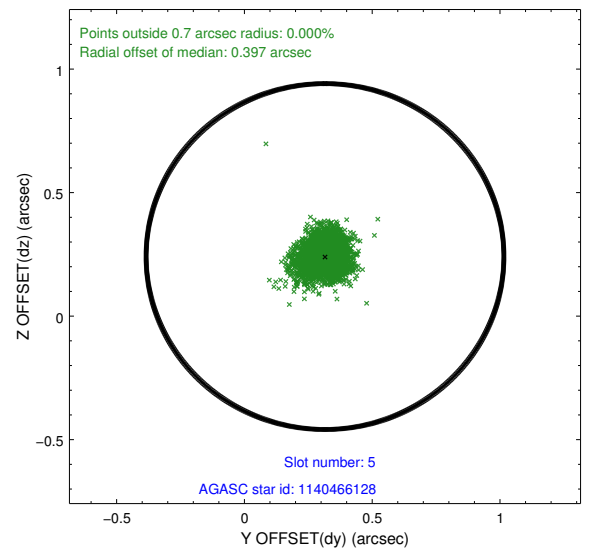
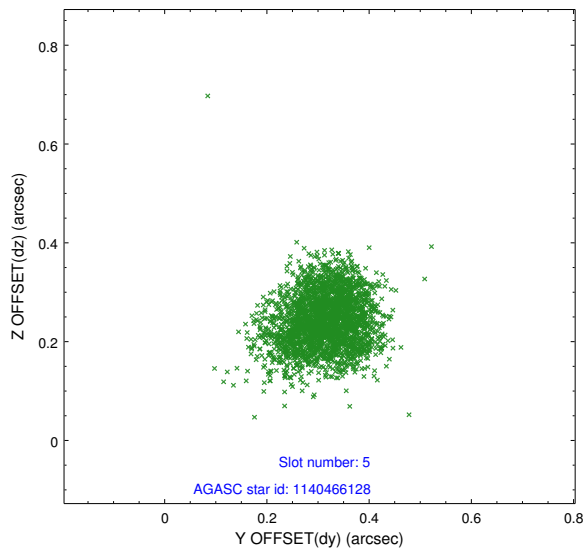
2.4.1 Slot 3



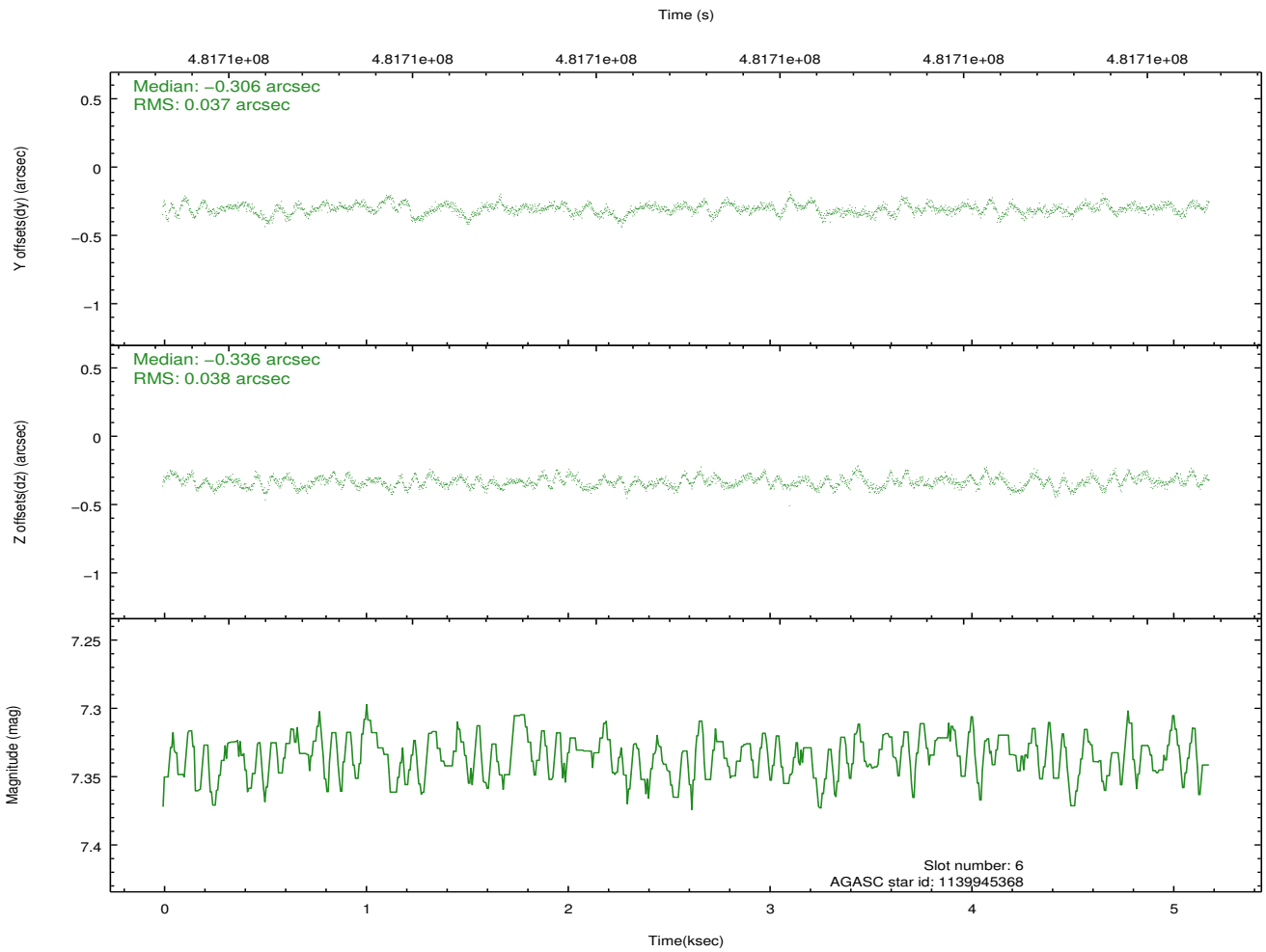
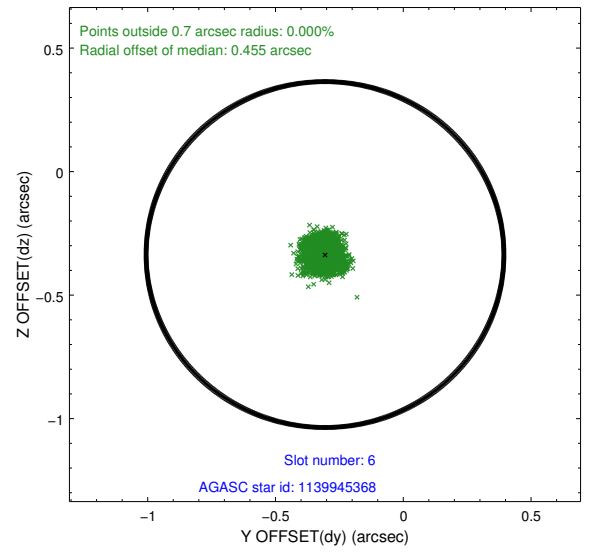
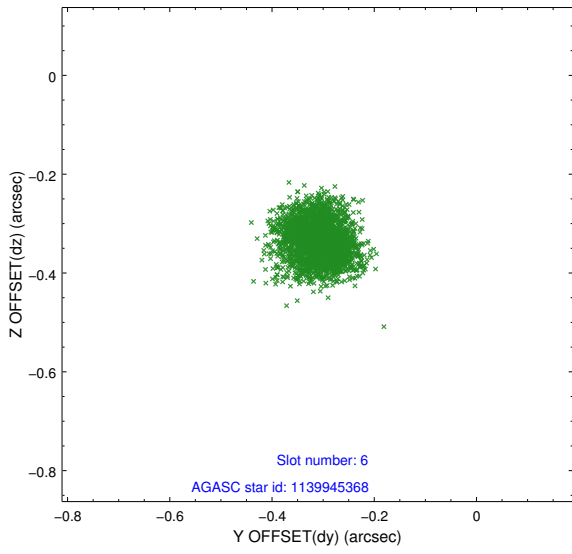
2.4.2 Slot 4



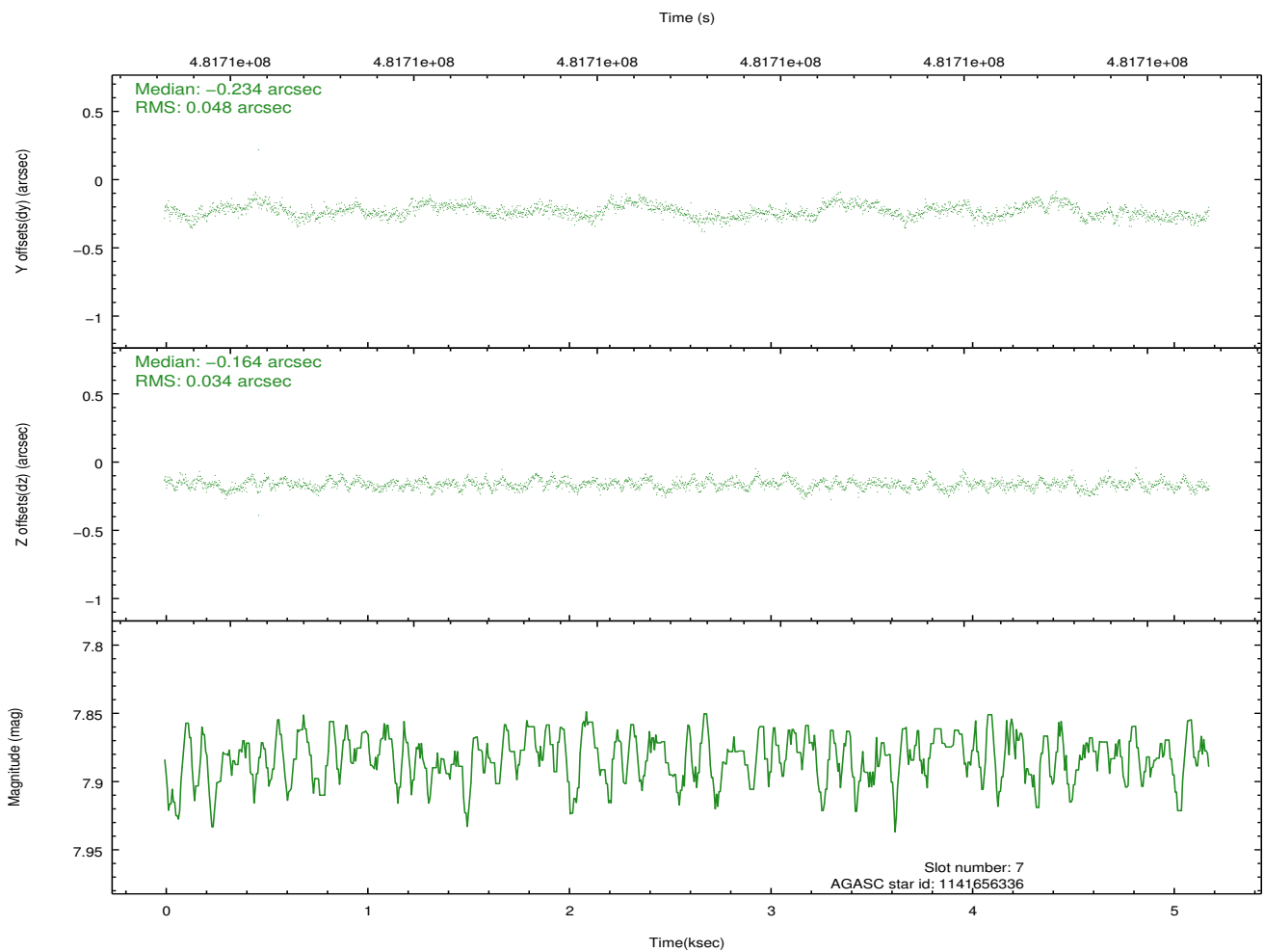
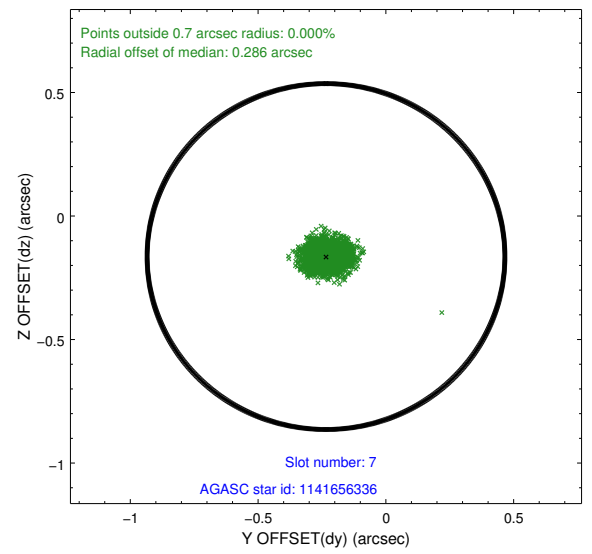
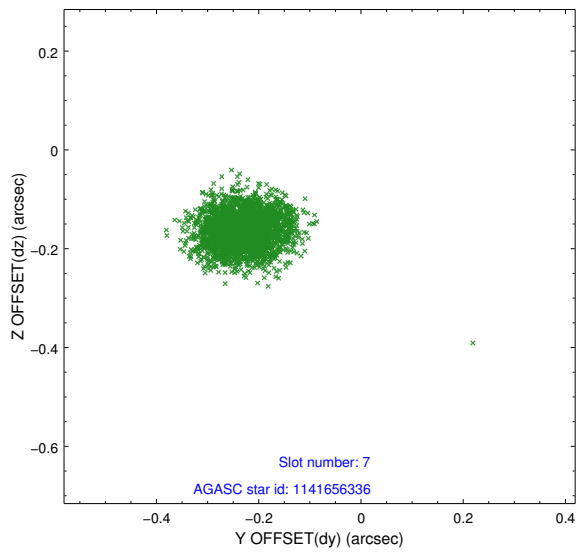
2.4.3 Slot 5



2.4.4 Slot 6

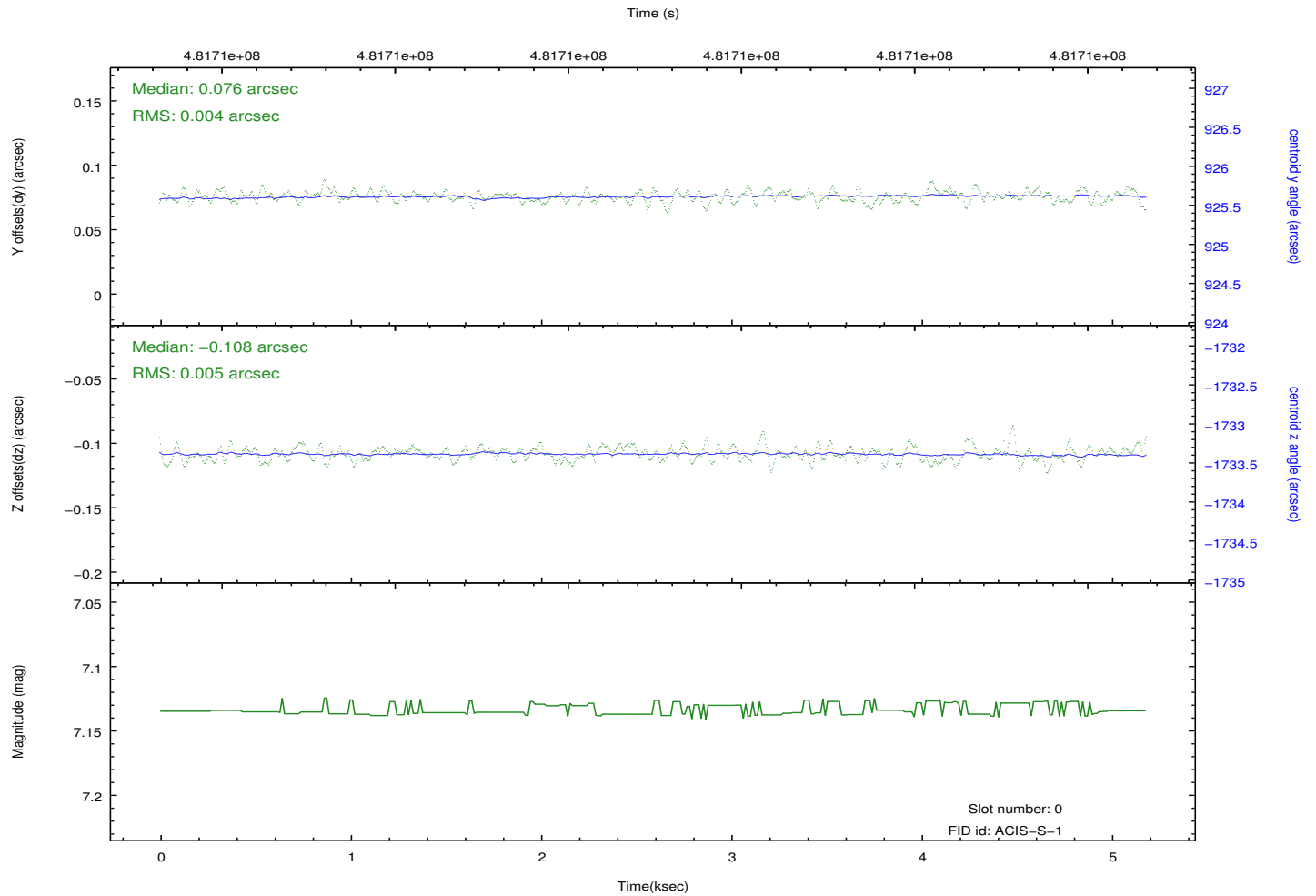
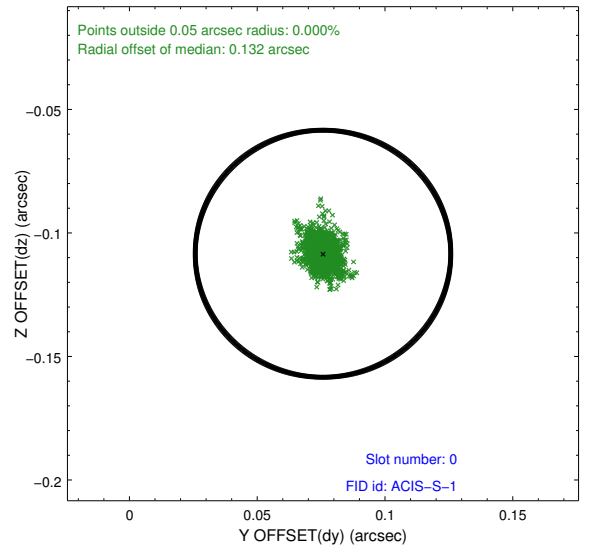
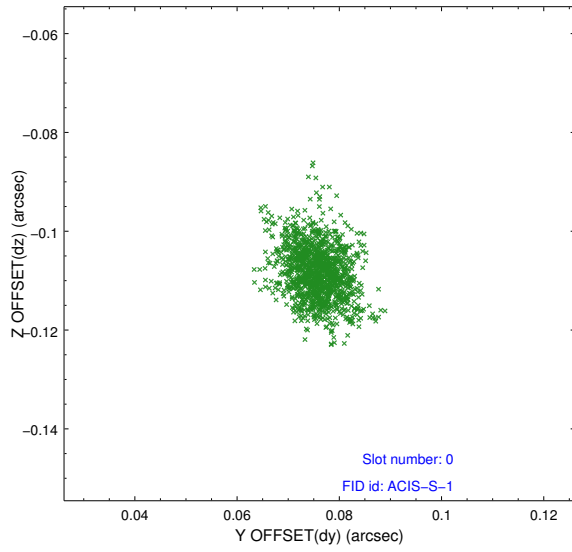


2.4.5 Slot 7

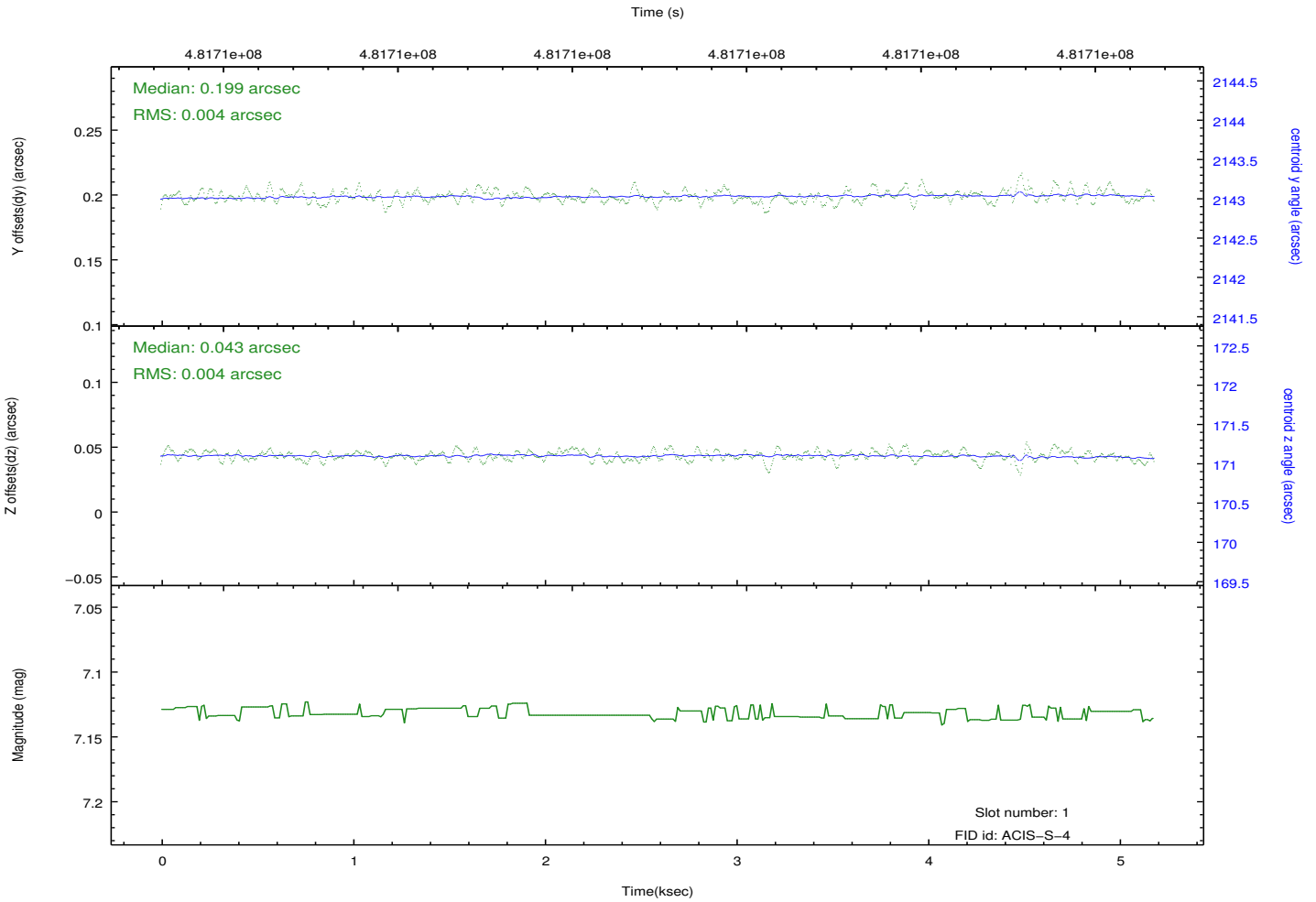
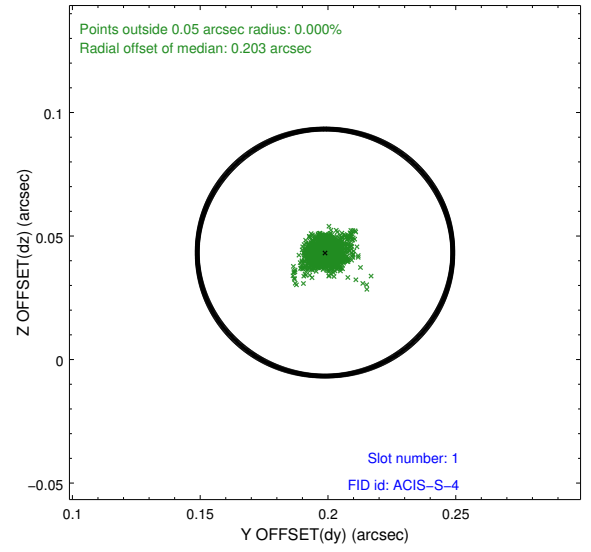
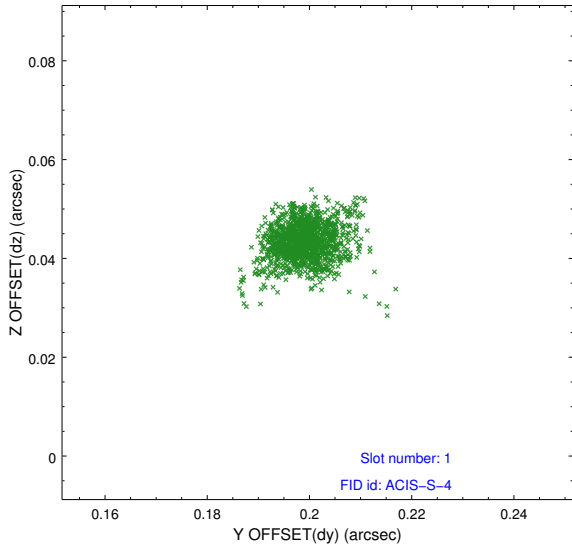


2.5 FID Slots

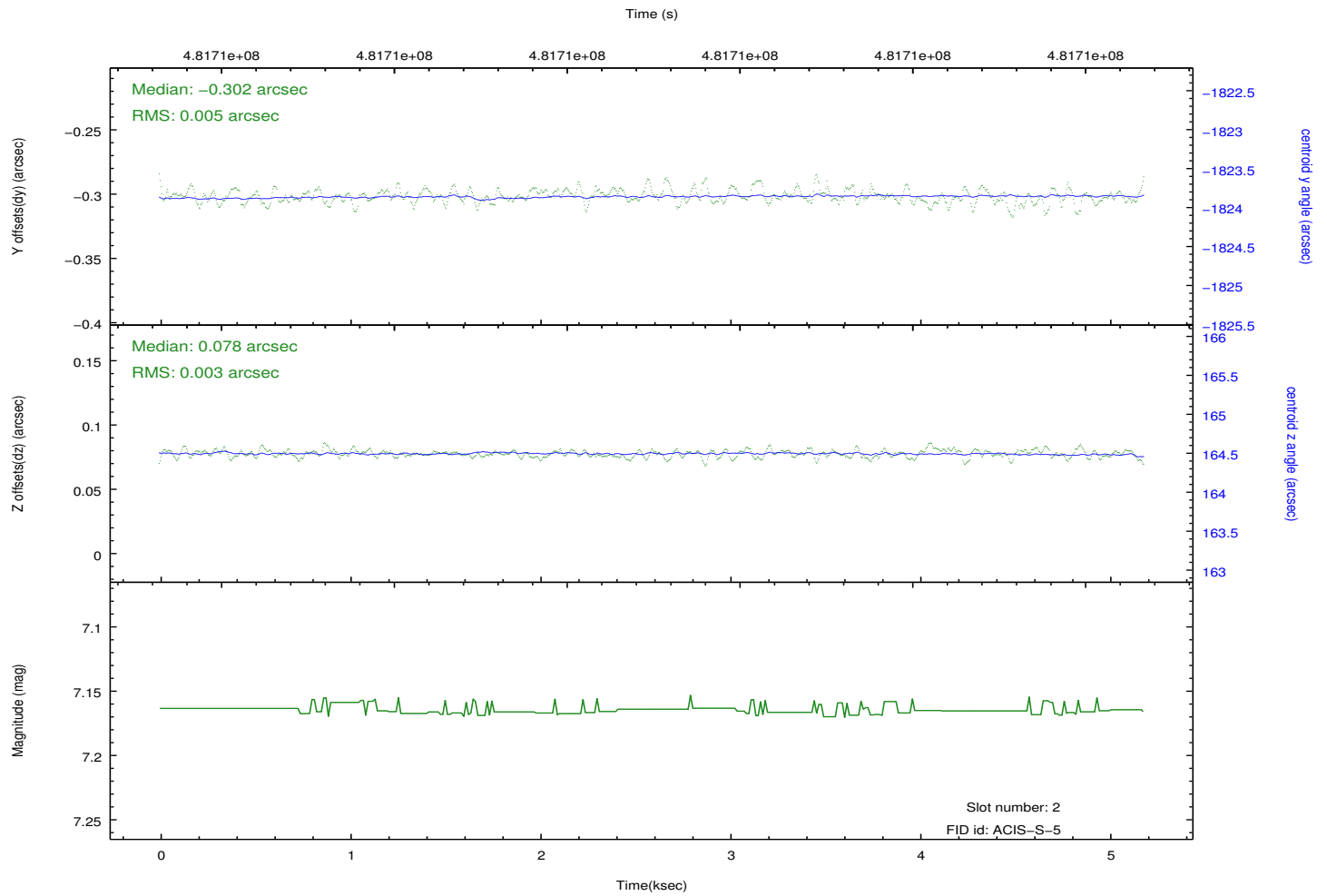
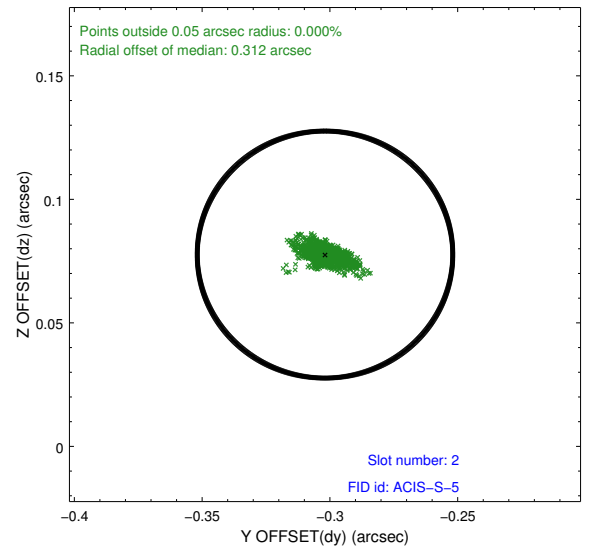
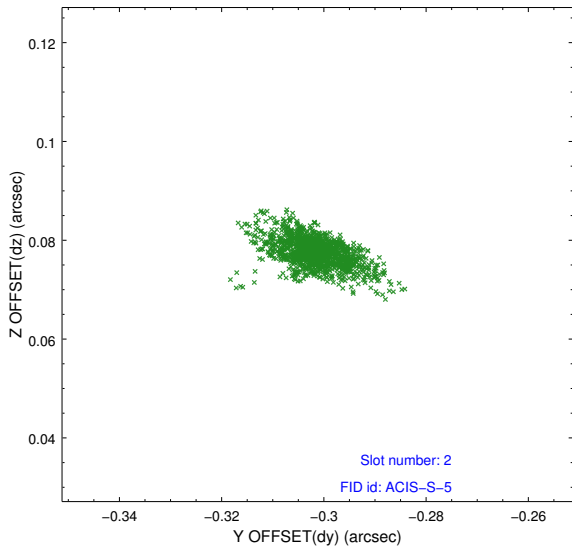
2.5.1 Slot 0



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)	2014.12.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0703996977806

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.