

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 4842 - L2 Version 4
Chandra X-Ray Center

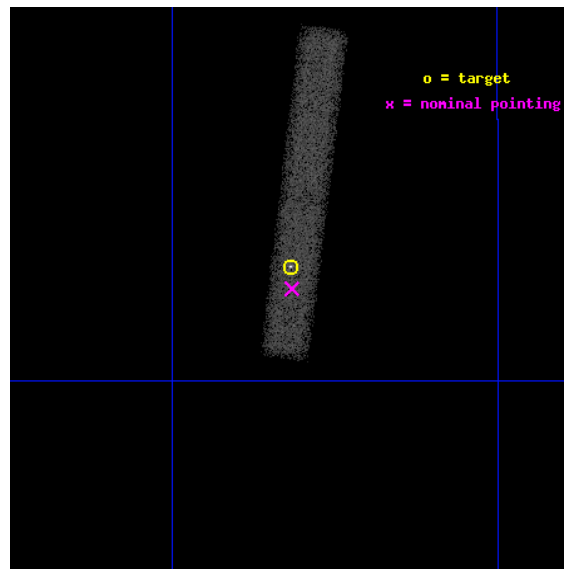
L2 Processing Date : Dec 3 2012

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1 Front

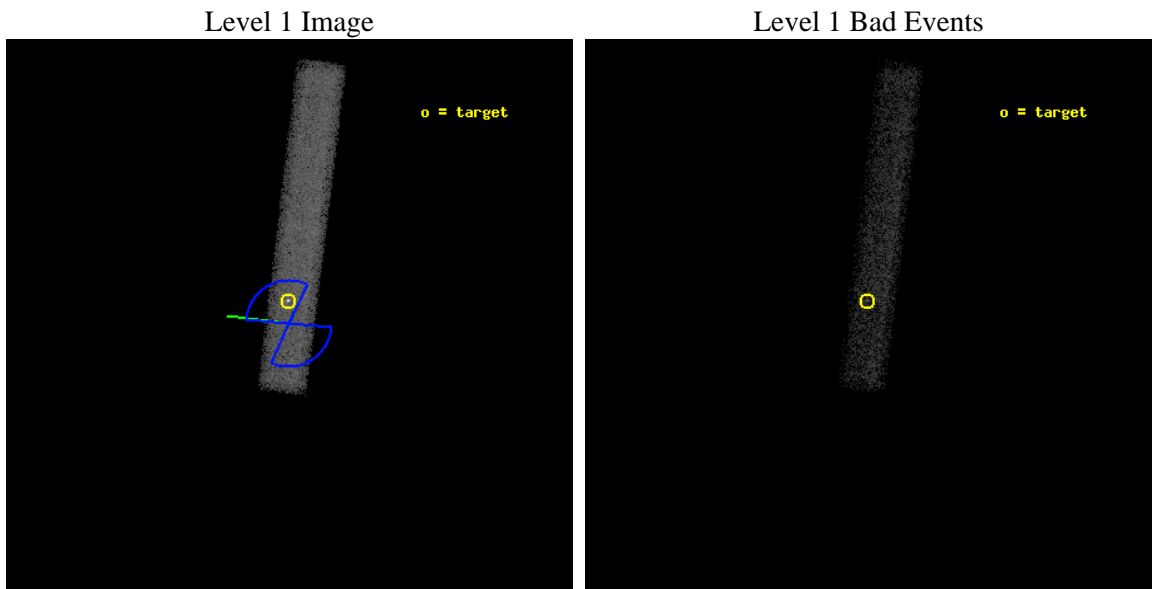
seq_num	700924	Sequence number
obs_id	4842	Observation id
title	The Physics of Relativistic Jets: Chandra Imaging of Extended Jets in Gamma-loud Blazars	Proposal title
observer	Dr. FABRIZIO TAVECCHIO	Principal investigator
object	0954+556	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	149.409167	Observer's specified target RA [deg]
dec_targ	55.382778	Observer's specified target Dec [deg]
ra_nom	149.40823563675	Nominal RA [deg]
dec_nom	55.373113988416	Nominal Dec [deg]
roll_nom	277.00647110612	Nominal Roll [deg]
revision	4	Processing version of data
ontime	37934.800565243	Sum of GTIs [s]
livetime	34404.861749721	Livetime [s]
ontime7	37934.800565243	Sum of GTIs [s]
l2events	27514	Number of level 2 events



2 OBI

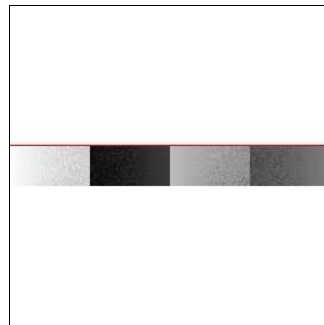
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	37759.797000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	37934.800565243	Sum of GTIs [s]
caldbver	4.5.2	 	ontime7	37934.800565243	Sum of GTIs [s]
date	2012-12-03T01:51:15	Date and time of file creation	l1events	57357	Number of level 1 events
revision	4	Processing version of data			

2.1.4 Events

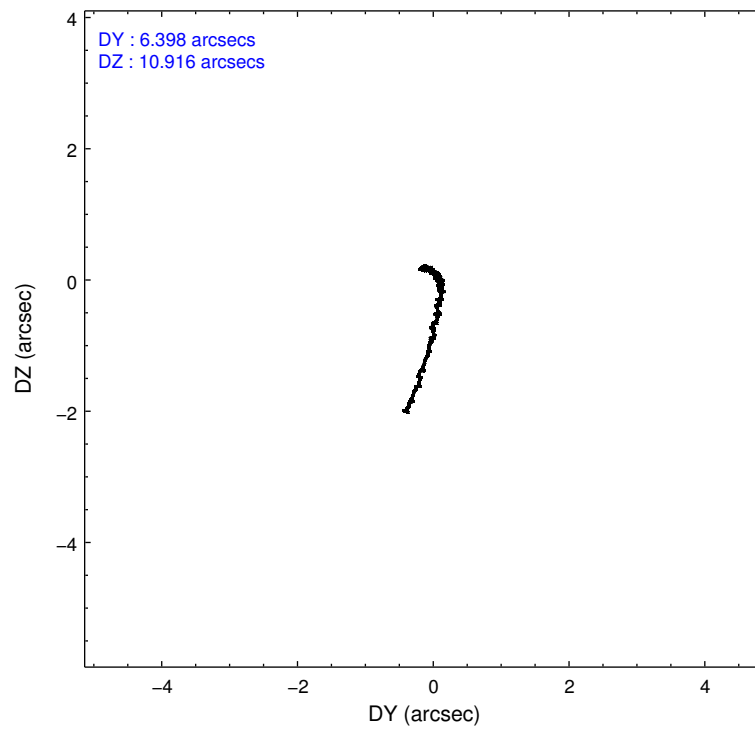
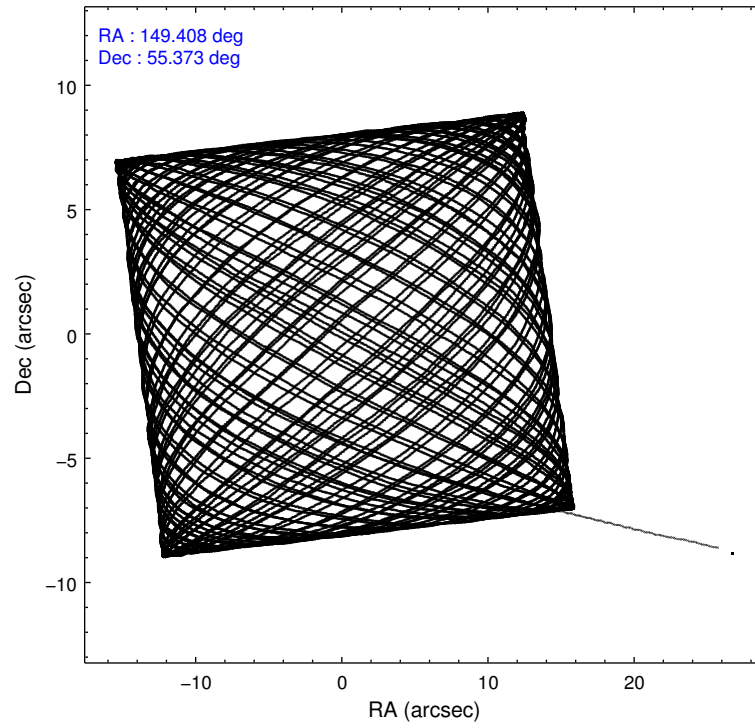
	ccd 7
level 1 events	57357
rejected events	28911
rejected %	50%

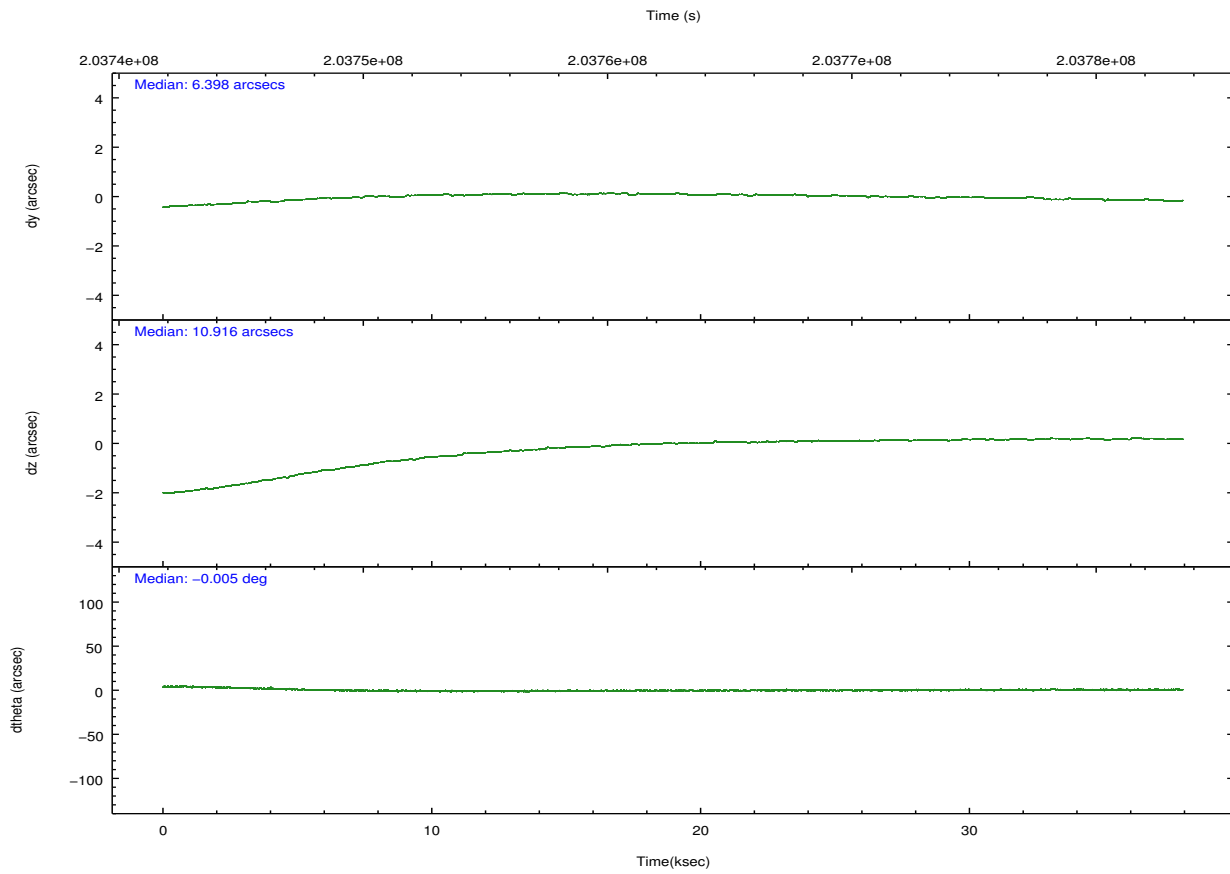
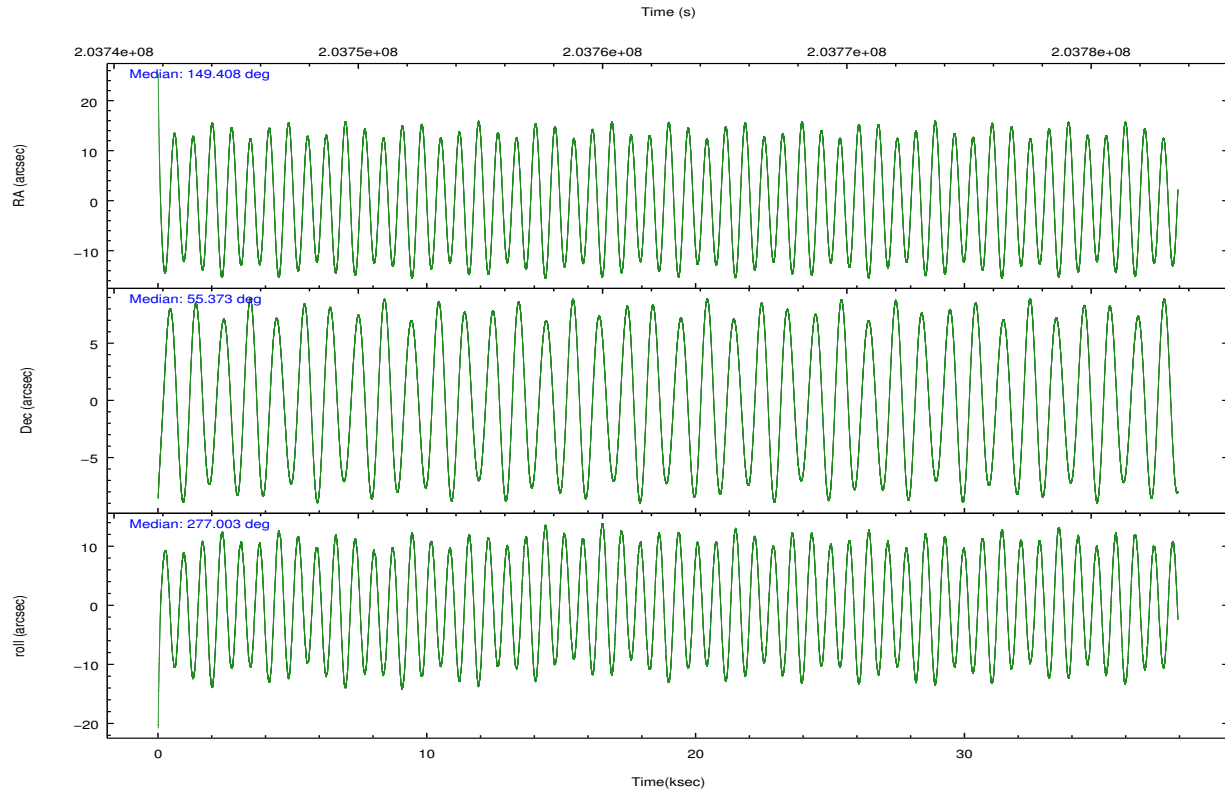
	ccd 7
grade 0 events	4298
	7%
grade 1 events	45
	0%
grade 2 events	5770
	10%
grade 3 events	3704
	6%
grade 4 events	3502
	6%
grade 5 events	4901
	8%
grade 6 events	12103
	21%
grade 7 events	23034
	40%

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	149.378882	149.4082356367458	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	55.394644	55.37311398841572	Subarray start row	449	449
[deg] Pointing Roll	276.874007	277.0064711061211	Subarray row count	128	128
[deg] Roll angle	150.000000	150.000000	Alternating exposures requested	N	N
[deg] Roll tolerance	55.000000	55.000000	[s] Primary exposure time	0.000000	0.4
Roll constraint allows 180D rotation	Y	Y			
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	203743895.184000	203742131.36953			
Observation start date	2004-06-16T03:30:31	2004-06-16T03:02:11			
[s] Observation end time (MET)	203781654.184000	203781876.77129			
Observation end date	2004-06-16T13:59:50	2004-06-16T14:04:36			
Read mode	TIMED	TIMED			

2.3 Aspect



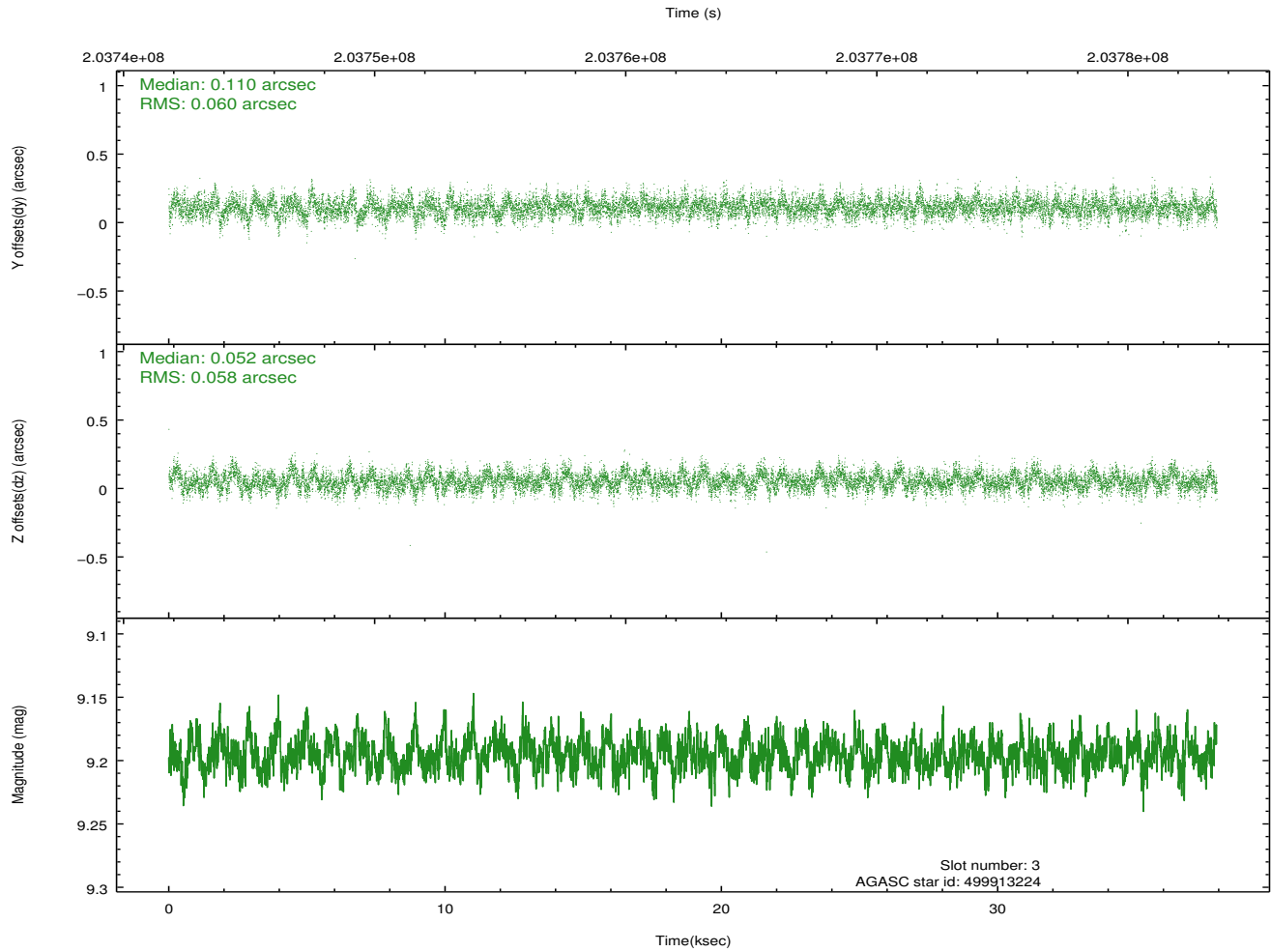
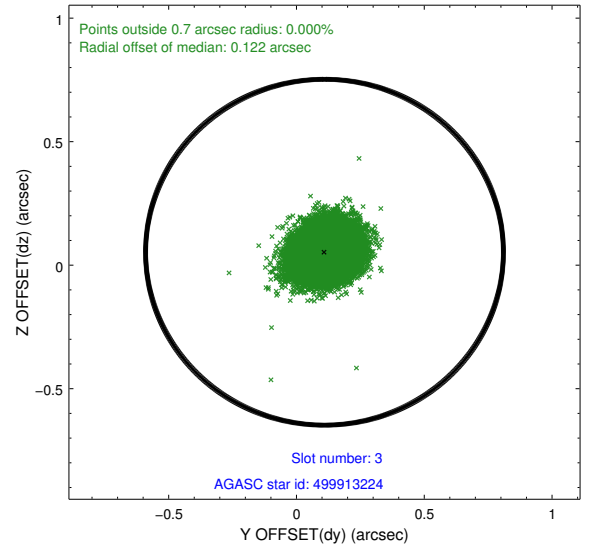
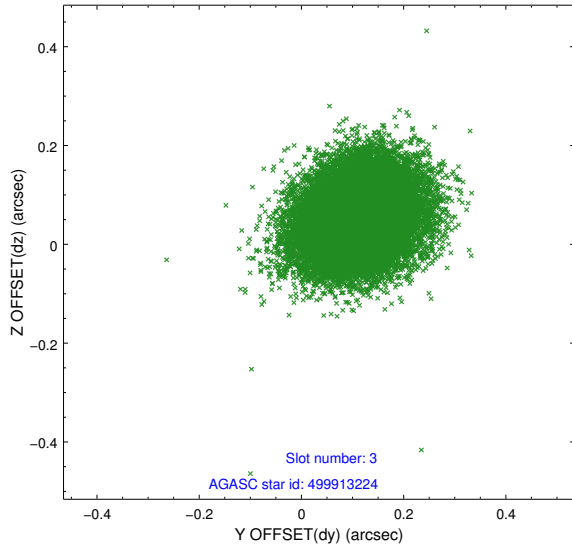


Slot Statistics

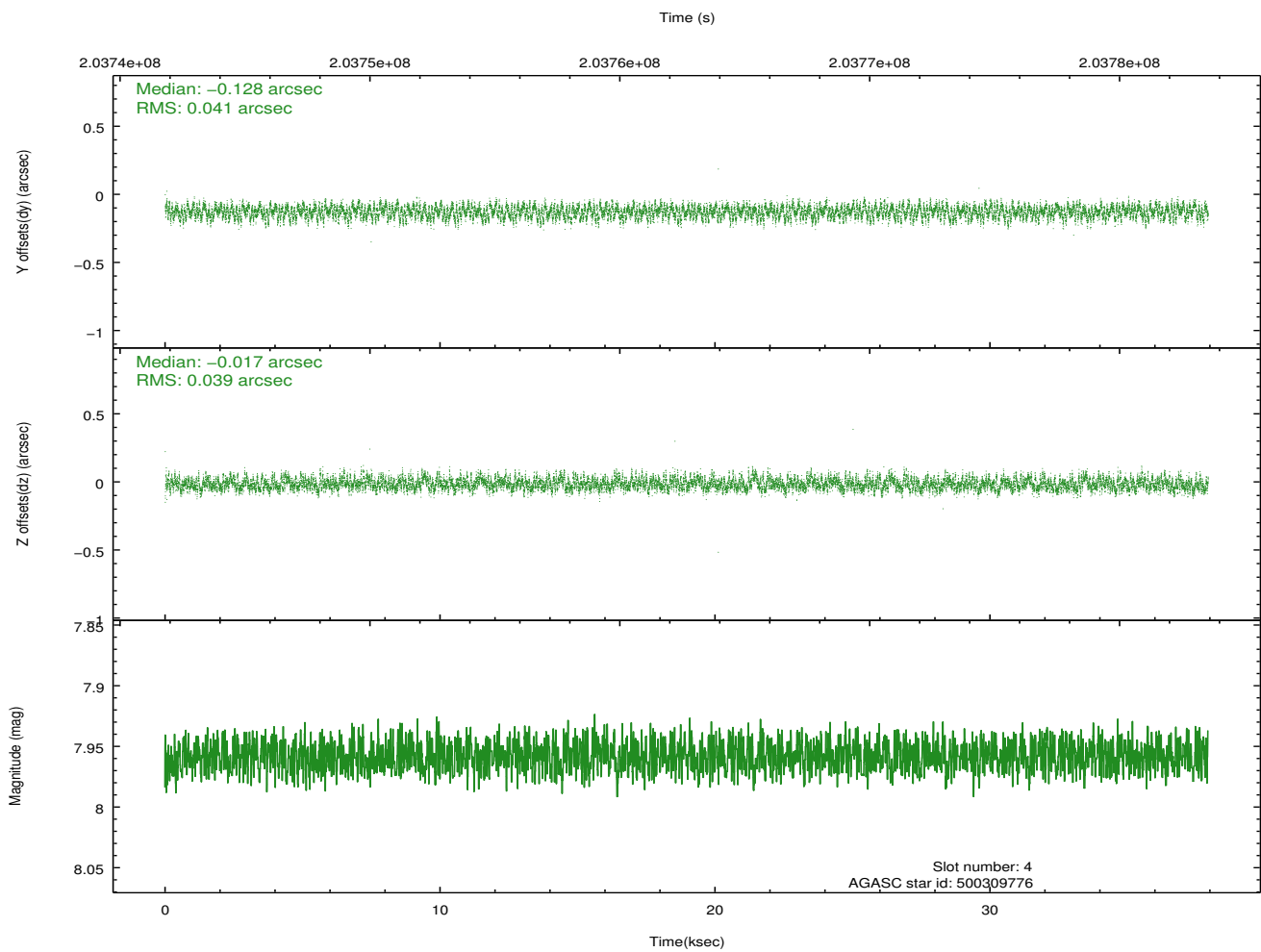
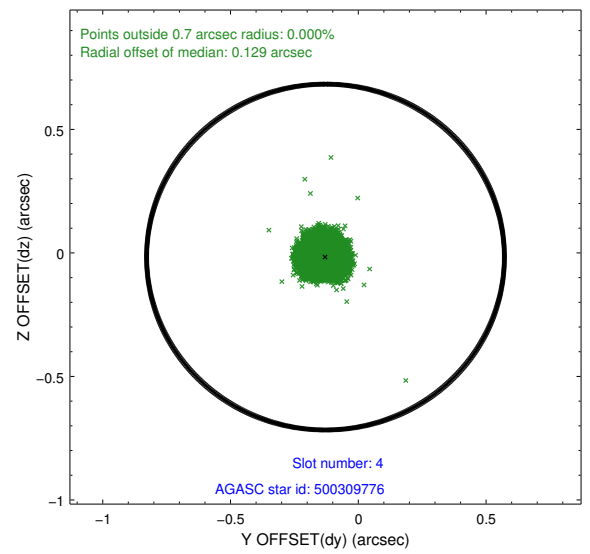
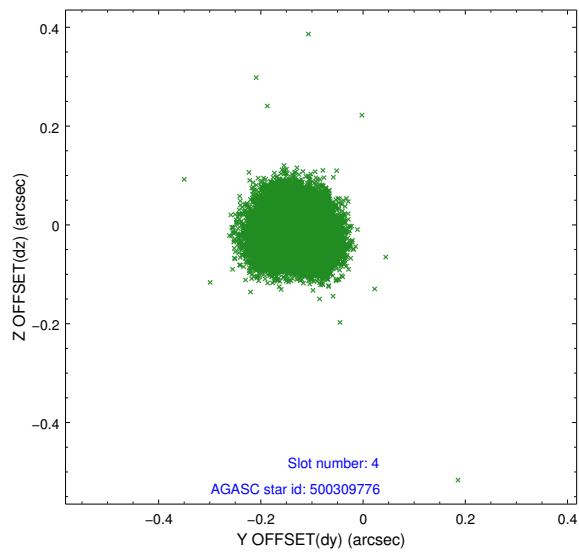
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	9251	-0.061	-0.020	0.011	0.029	0.000000	0.000000	-759.14	-1731.83
1	FID	ACIS-S-4	7.20	9253	0.087	0.035	0.012	0.021	0.000000	0.000000	2154.25	176.73
2	FID	ACIS-S-5	7.23	9253	-0.057	-0.006	0.010	0.032	0.000000	0.000000	-1811.98	170.33
3	GUIDE	499913224	9.20	18496	0.110	0.052	0.088	0.144	149.857129	54.798072	2247.96	729.05
4	GUIDE	500309776	7.96	18503	-0.128	-0.017	0.061	0.094	150.409238	55.585087	-443.22	2164.47
5	GUIDE	500310128	9.21	18494	0.068	0.181	0.087	0.140	150.281852	55.096051	1278.05	1720.09
6	GUIDE	500310136	8.66	18499	0.136	-0.136	0.063	0.103	149.694298	55.069248	1239.76	505.77
7	GUIDE	500314248	7.89	18503	-0.181	-0.081	0.063	0.098	148.413100	55.769248	-1586.14	-1778.71

2.4 Star Slots

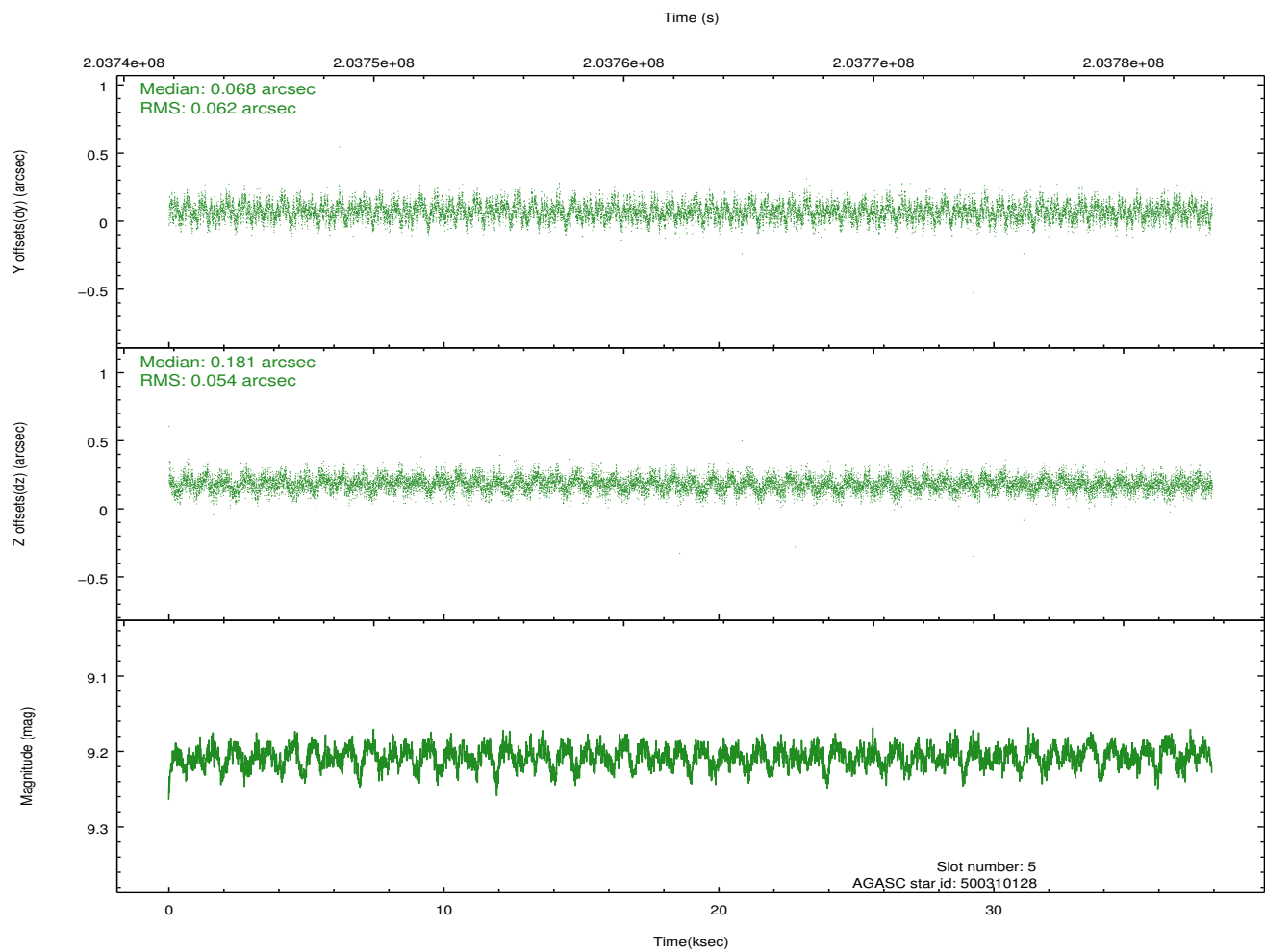
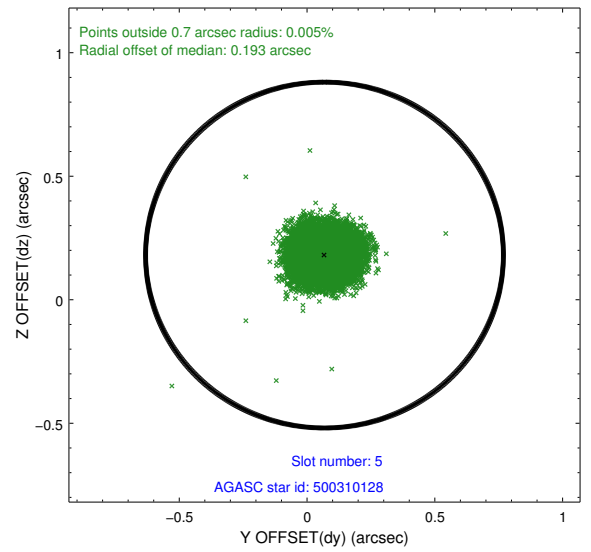
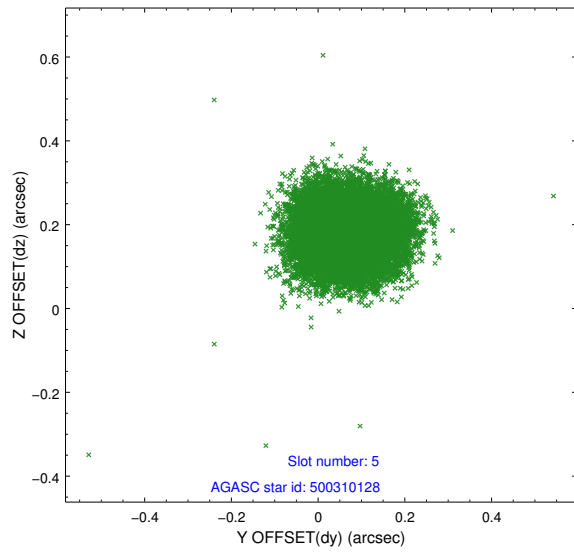
2.4.1 Slot 3



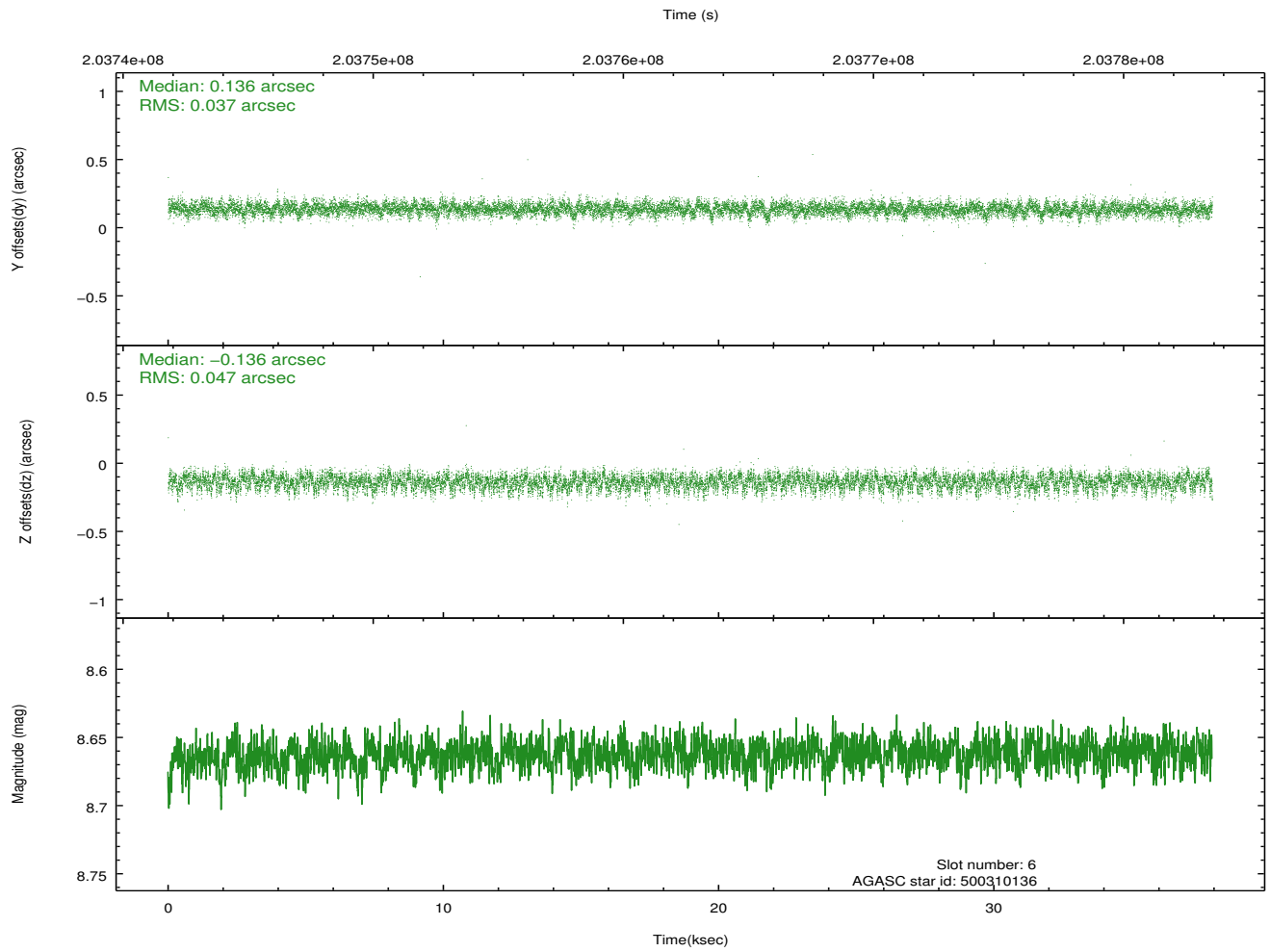
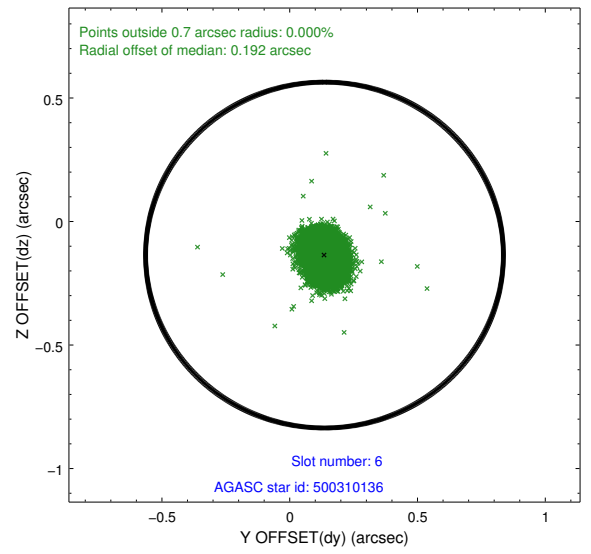
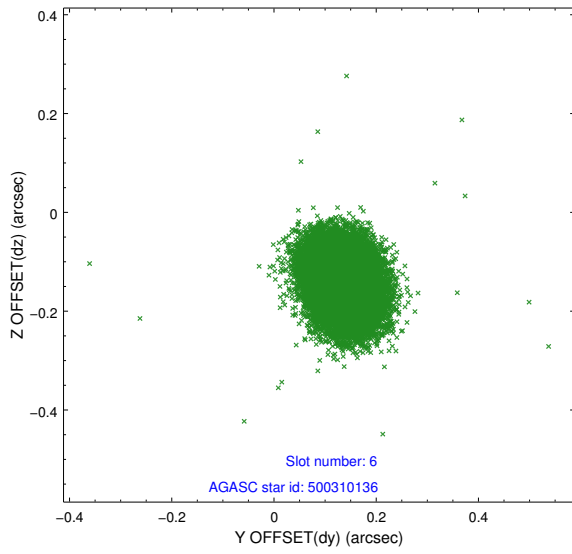
2.4.2 Slot 4



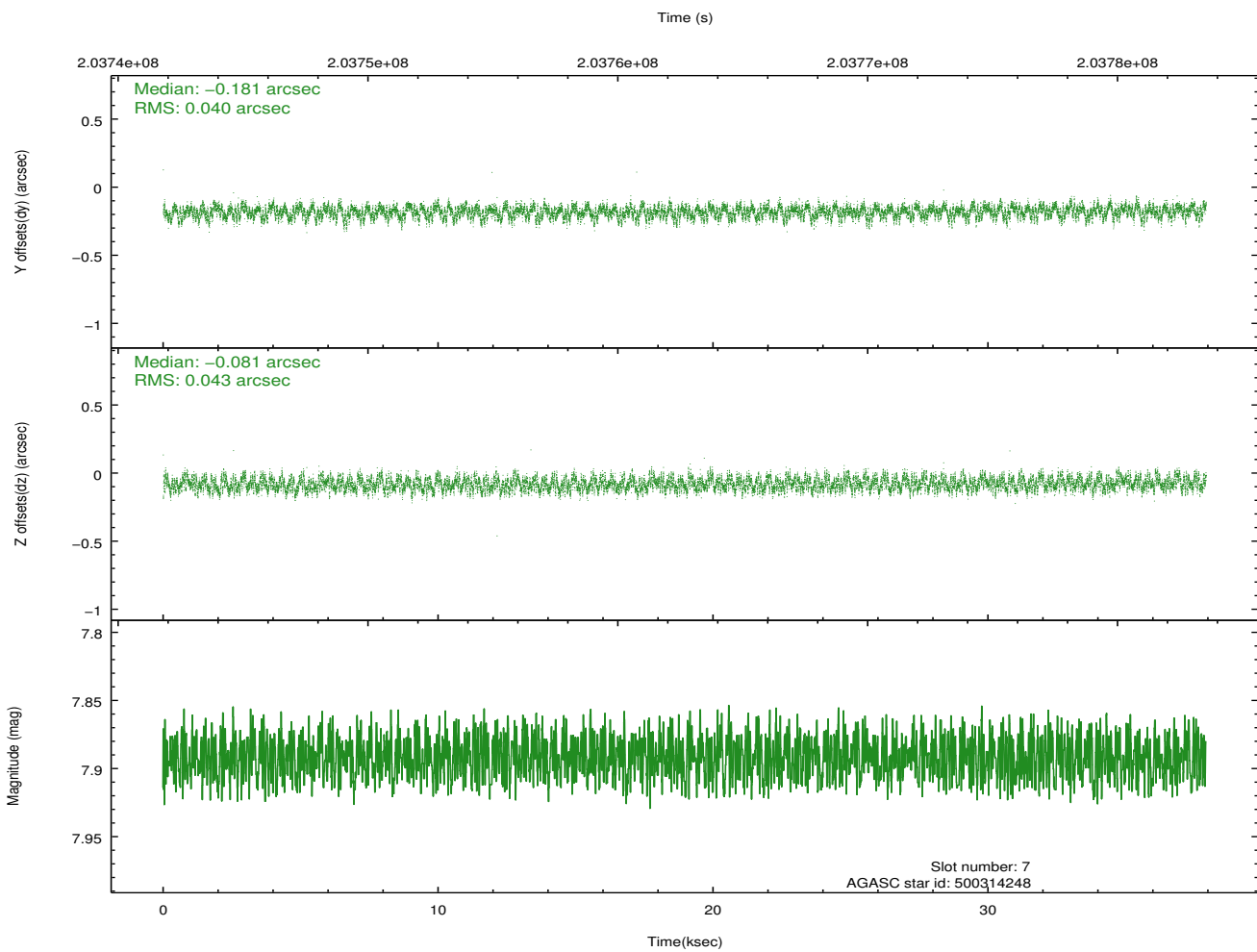
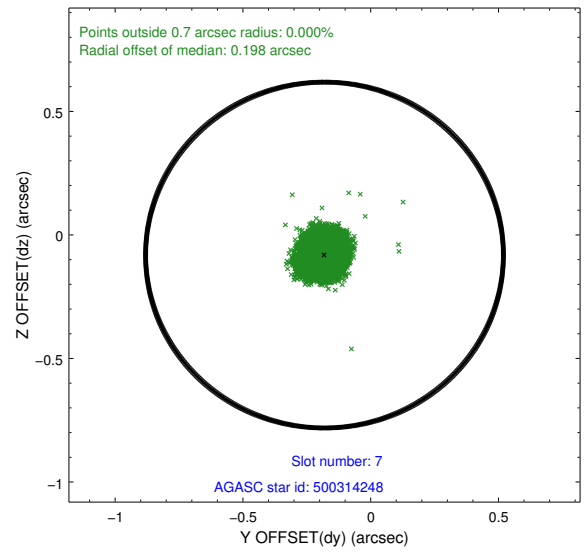
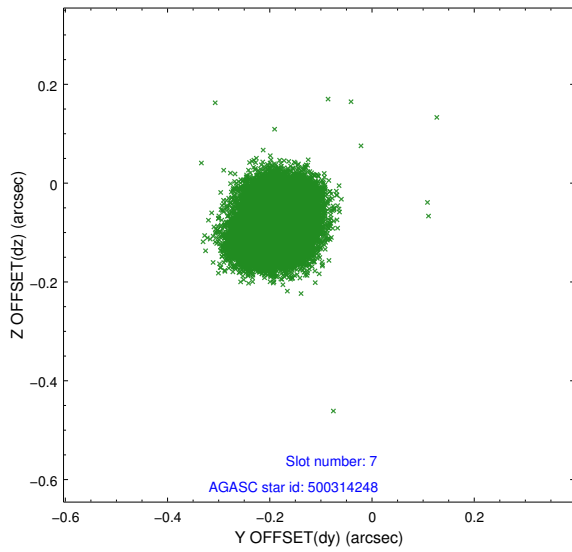
2.4.3 Slot 5



2.4.4 Slot 6

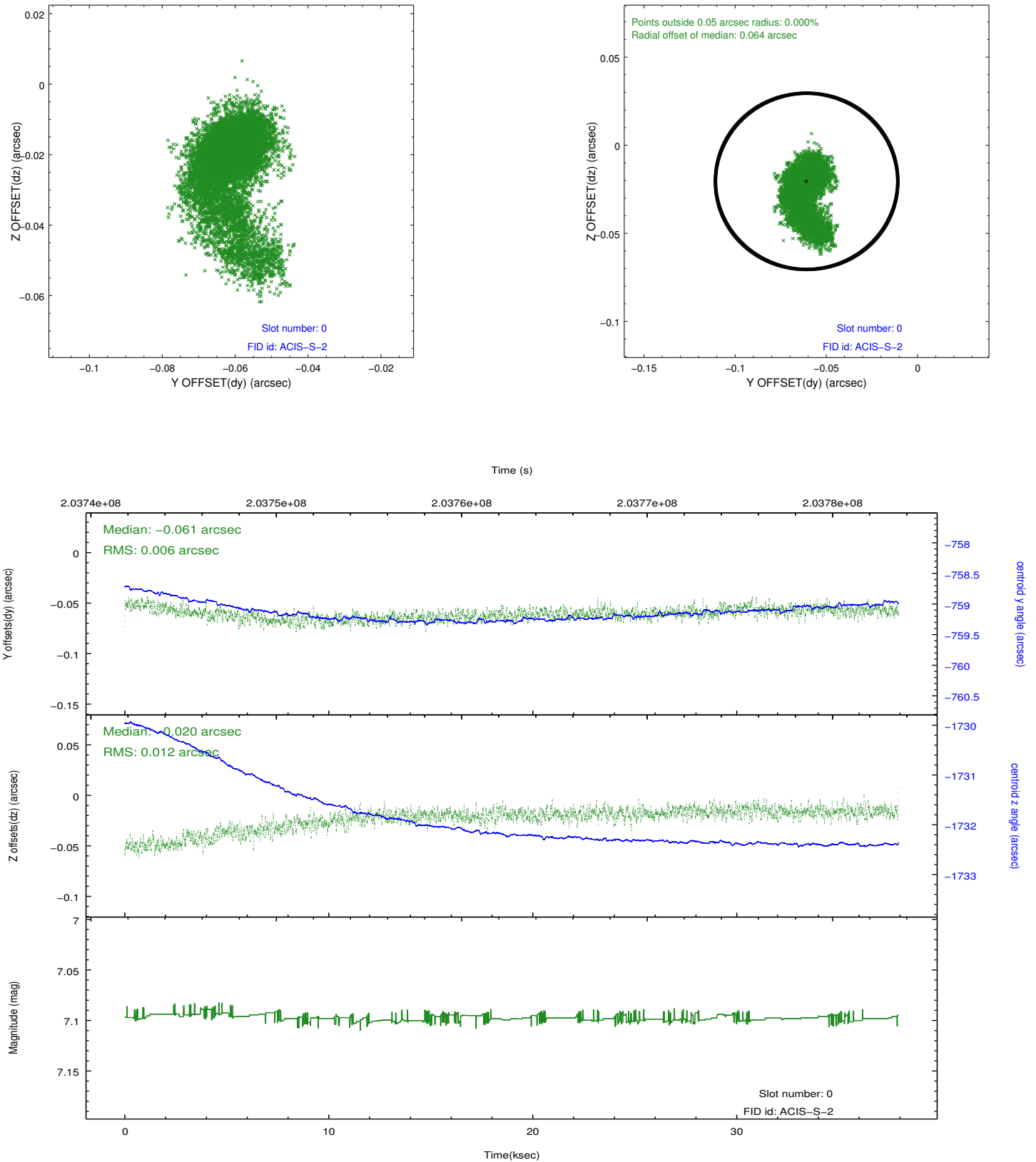


2.4.5 Slot 7

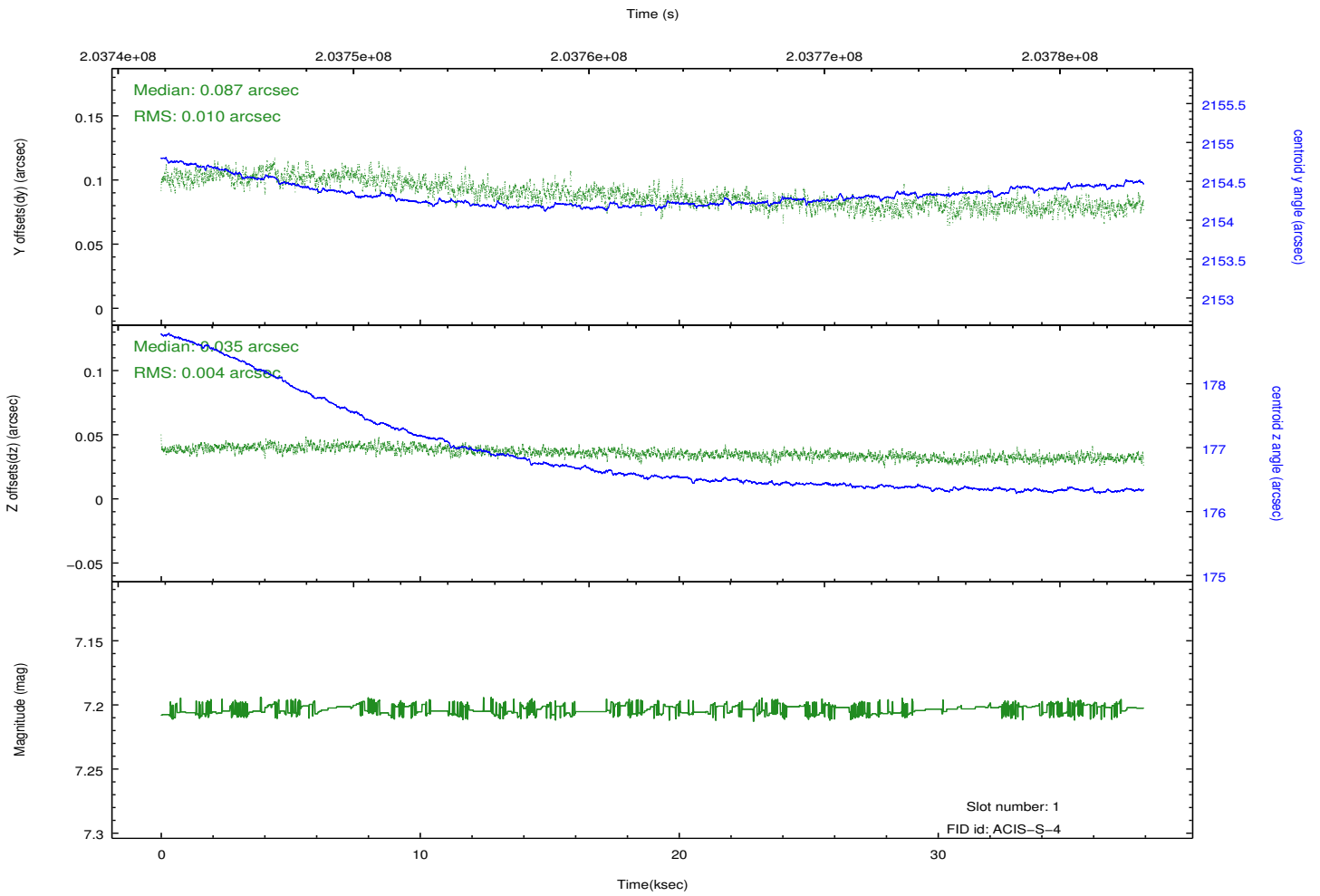
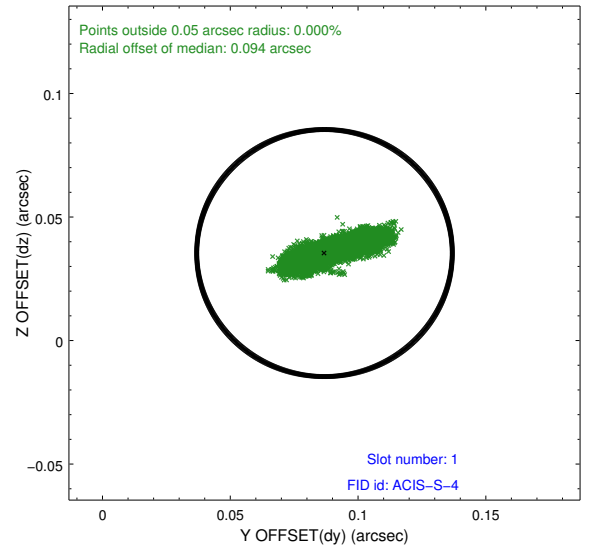
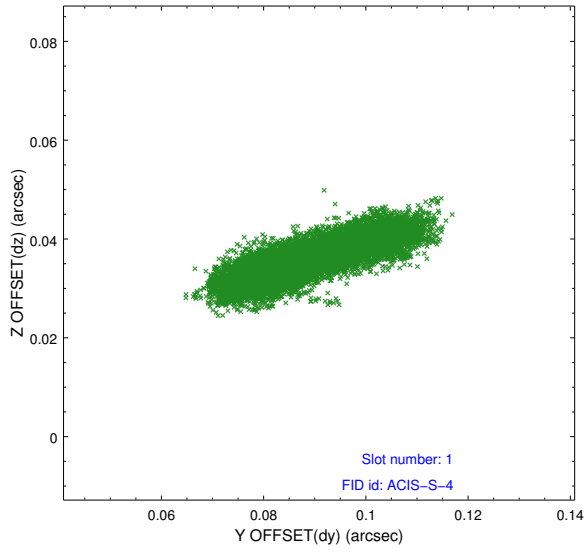


2.5 FID Slots

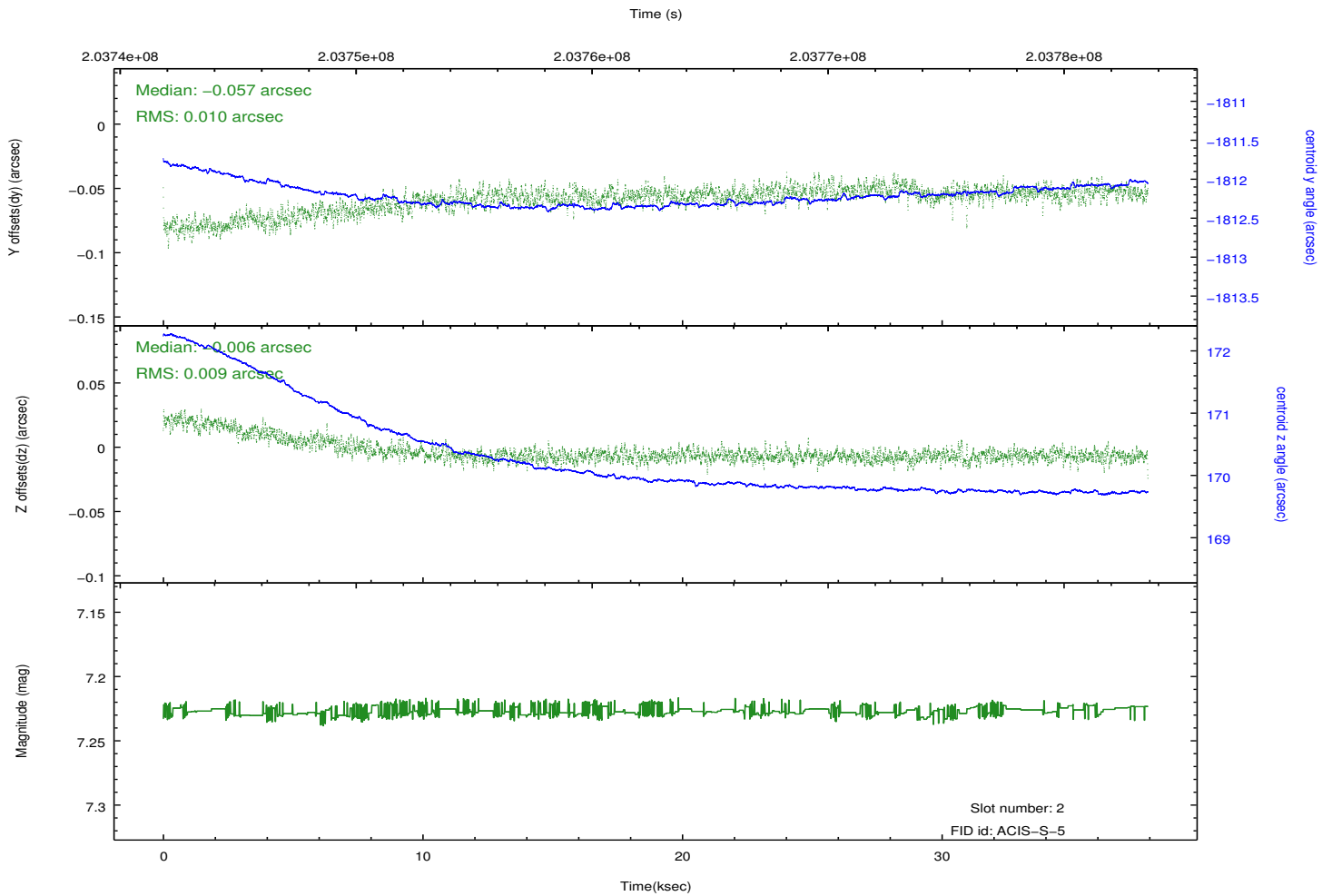
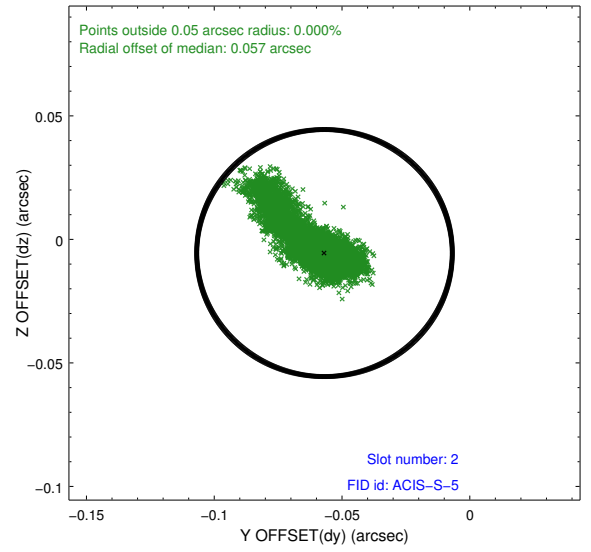
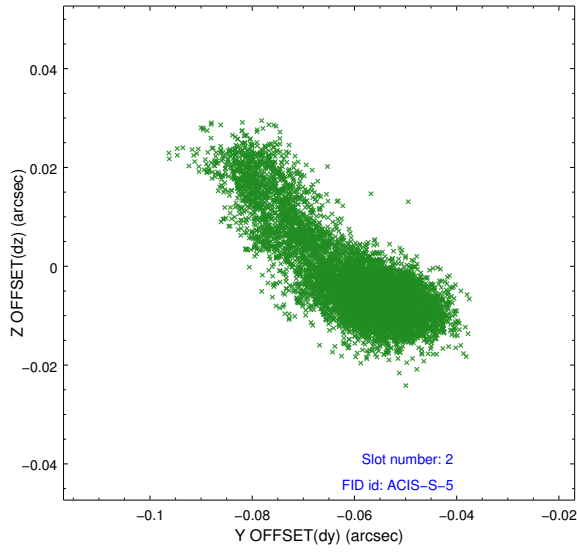
2.5.1 Slot 0



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)	2012.12.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	37.934

A.2 Comments

Joint Proposal: HST. Roll constraint met.