

V&V Reference Report

L2 ASCDS Version : 10.2.4

Observation 15748 - L2 Version 1
Chandra X-Ray Center

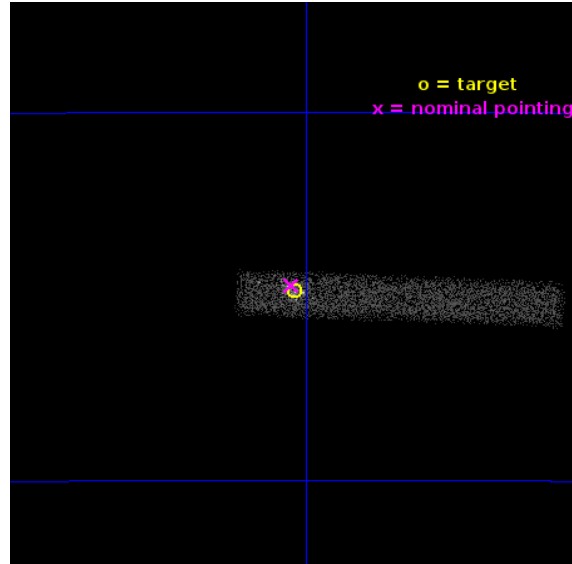
L2 Processing Date : Oct 2 2014

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1 Front

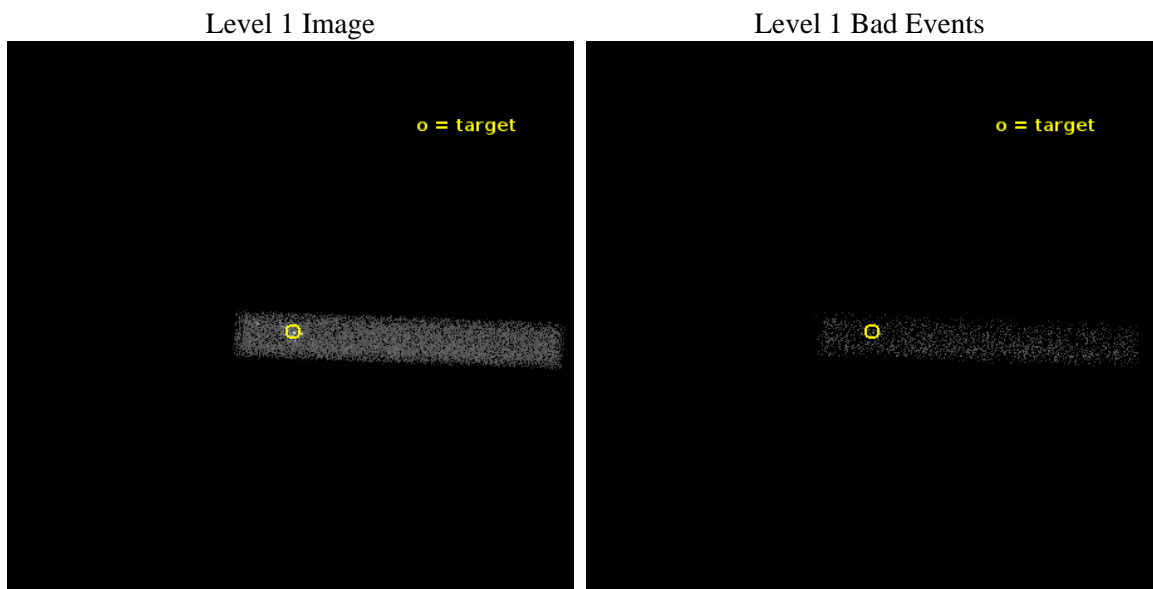
seq_num	401545	Sequence number
obs_id	15748	Observation id
title	A DEEP SUBARRAY EXPOSURE OF X7 IN 47 TUC: TOWARDS CONSTRAINING NEUTRON STAR STRUCTURE	Proposal title
observer	DR. SLAVKO BOGDANOV	Principal investigator
object	47 Tuc	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	6.014558	Observer's specified target RA [deg]
dec_targ	-72.081094	Observer's specified target Dec [deg]
ra_nom	6.0198350529254	Nominal RA [deg]
dec_nom	-72.078455679854	Nominal Dec [deg]
roll_nom	2.1616610296451	Nominal Roll [deg]
revision	1	Processing version of data
ontime	17904.34405458	Sum of GTIs [s]
livetime	16238.294988736	Livetime [s]
ontime7	17904.34405458	Sum of GTIs [s]
l2events	11932	Number of level 2 events



2 OBI

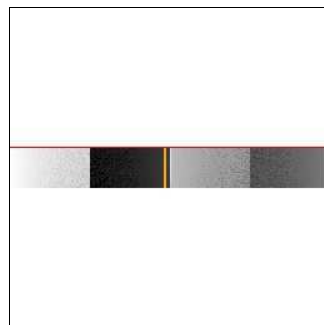
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	17835.000000	[s] Scheduled observation exposure time
ascdsver	10.2.4	Processing system revision	ontime	17904.34405458	Sum of GTIs [s]
caldsver	4.6.3	 	ontime7	17904.34405458	Sum of GTIs [s]
date	2014-10-02T19:41:08	Date and time of file creation	l1events	20588	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

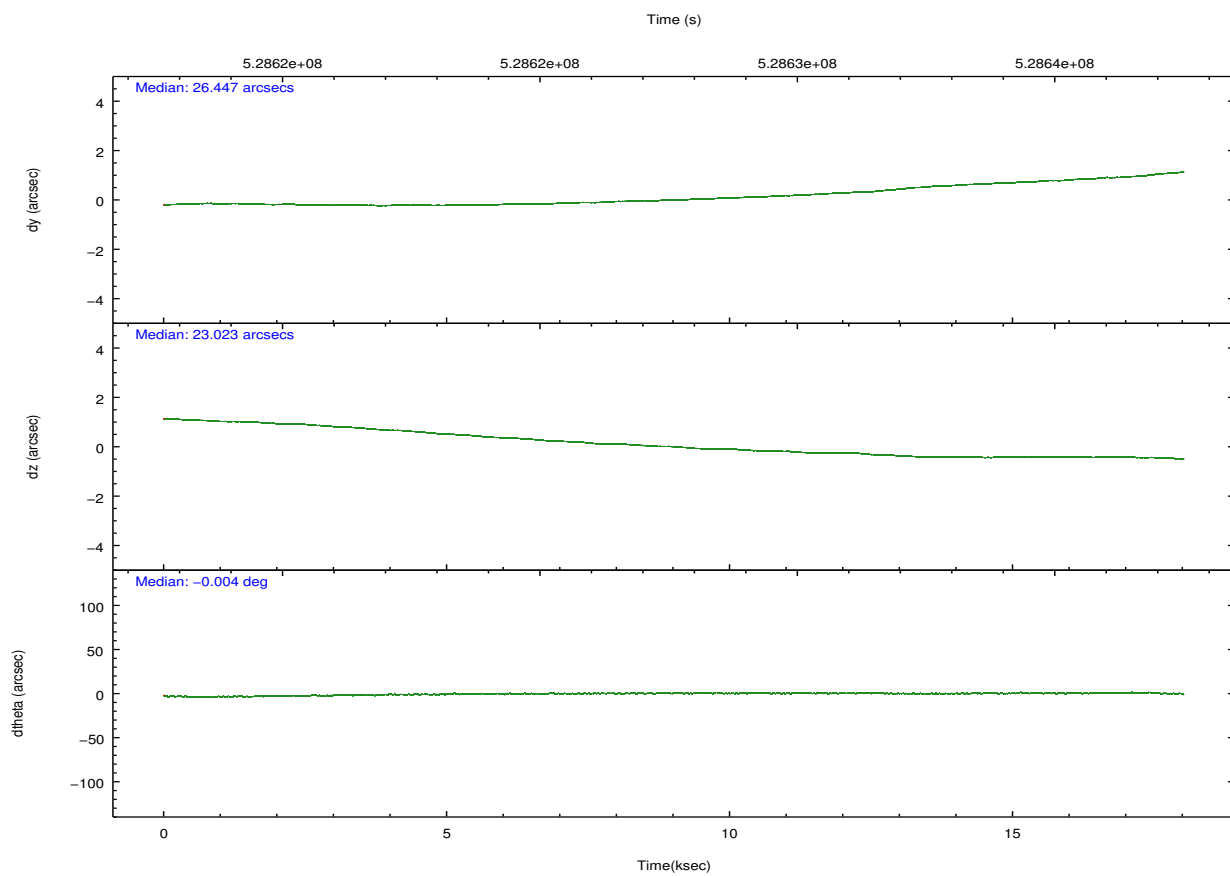
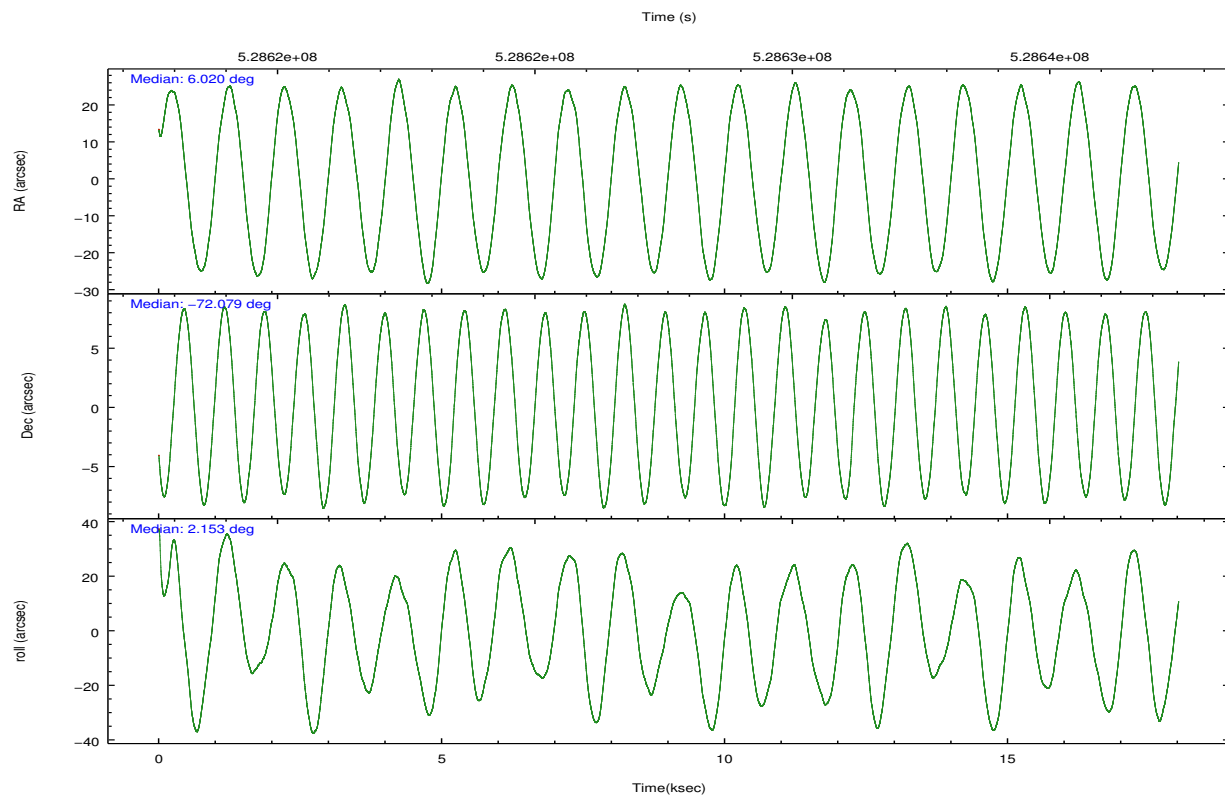
	ccd 7
level 1 events	20588
rejected events	8303
rejected %	40%

	ccd 7
grade 0 events	2155
	10%
grade 1 events	19
	0%
grade 2 events	2680
	13%
grade 3 events	1602
	7%
grade 4 events	1474
	7%
grade 5 events	1649
	8%
grade 6 events	4374
	21%
grade 7 events	6635
	32%

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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	5.944899	6.019835052925409	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-72.093331	-72.07845567985369	Subarray start row	449	449
[deg] Pointing Roll	1.933717	2.161661029645125	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	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	528618783.184000	528617886.87811			
Observation start date	2014-10-02T06:31:56	2014-10-02T06:18:06			
[s] Observation end time (MET)	528636618.184000	528637271.16669			
Observation end date	2014-10-02T11:29:11	2014-10-02T11:41:11			
Read mode	TIMED	TIMED			

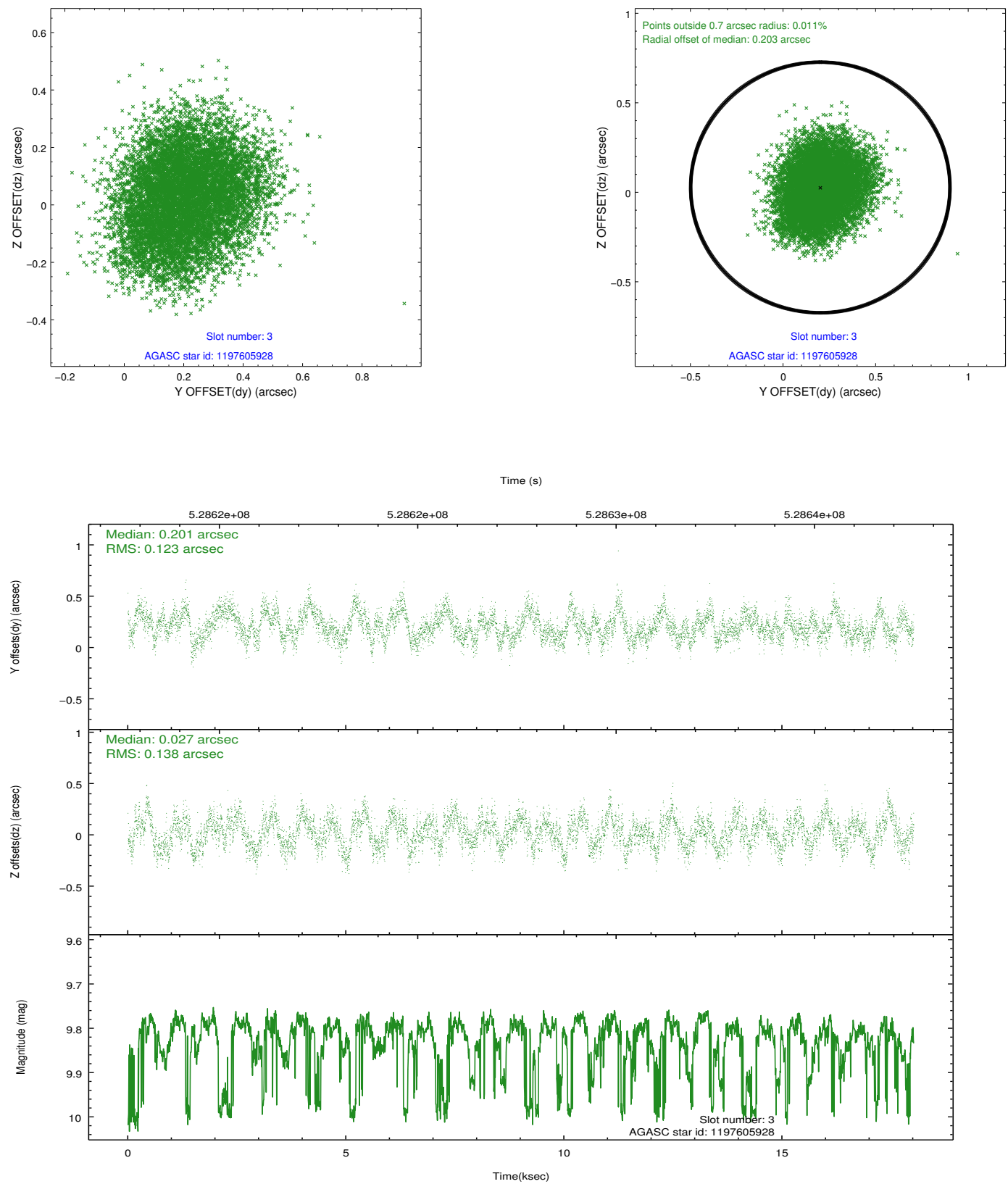
2.3 Aspect



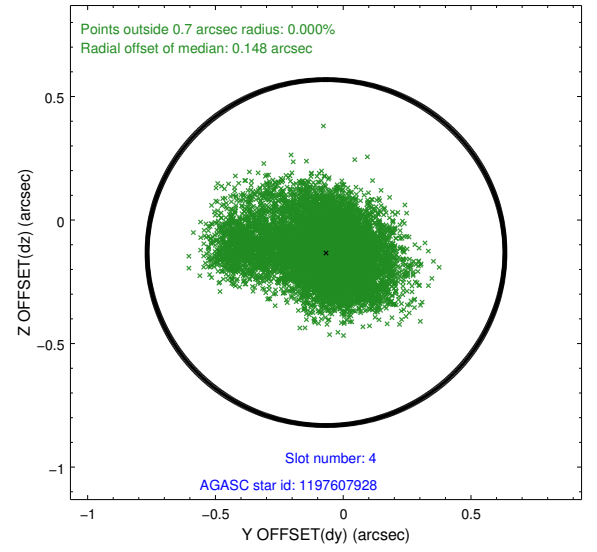
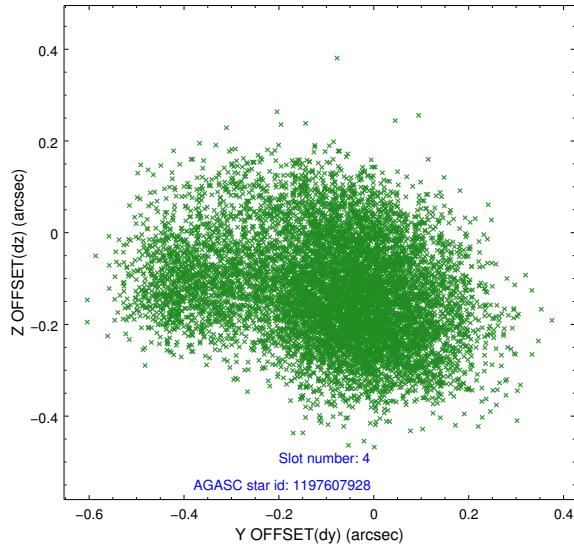
Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.94	4396	-0.157	-0.037	0.015	0.031	0.000000	0.000000	-780.08	-1744.73
1	FID	ACIS-S-4	7.03	4396	0.322	0.087	0.012	0.038	0.000000	0.000000	2133.59	163.62
2	FID	ACIS-S-5	7.07	4395	-0.195	-0.040	0.030	0.047	0.000000	0.000000	-1832.66	157.44
3	GUIDE	1197605928	9.82	8740	0.201	0.027	0.201	0.309	4.361277	-72.423732	-1761.11	-1153.28
4	GUIDE	1197607928	9.60	8783	-0.067	-0.132	0.211	0.365	7.837743	-72.165759	2075.38	-362.94
5	GUIDE	1197620848	9.97	8447	-0.142	-0.278	0.228	0.386	3.913465	-71.739620	-2248.68	1311.59
6	GUIDE	1197621088	9.87	8785	0.113	0.187	0.182	0.309	3.823480	-72.180366	-2344.88	-274.94
7	GUIDE	1197998392	9.76	8779	-0.134	0.099	0.317	0.492	6.367452	-72.761261	369.03	-2419.13

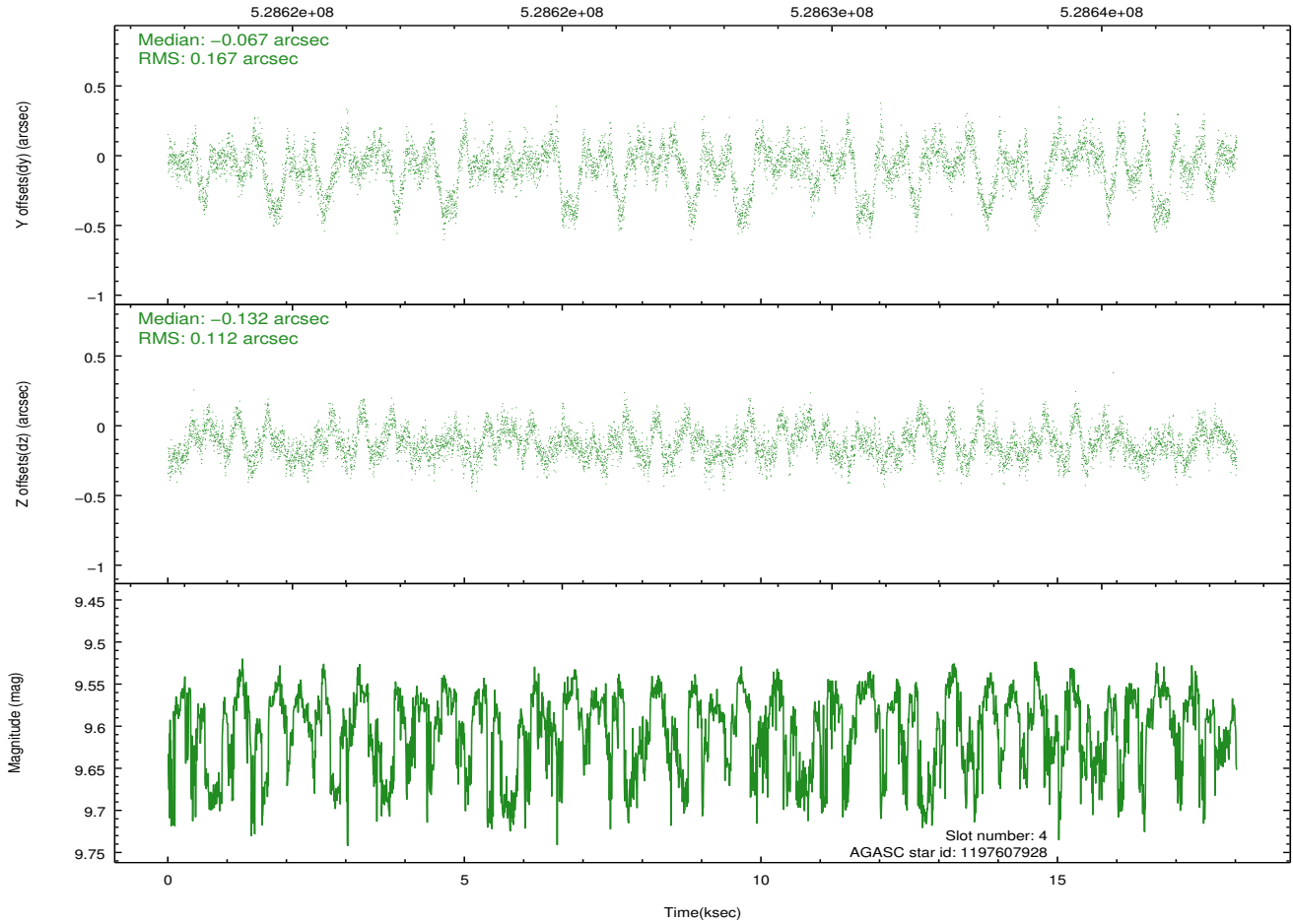
2.4.1 Slot 3



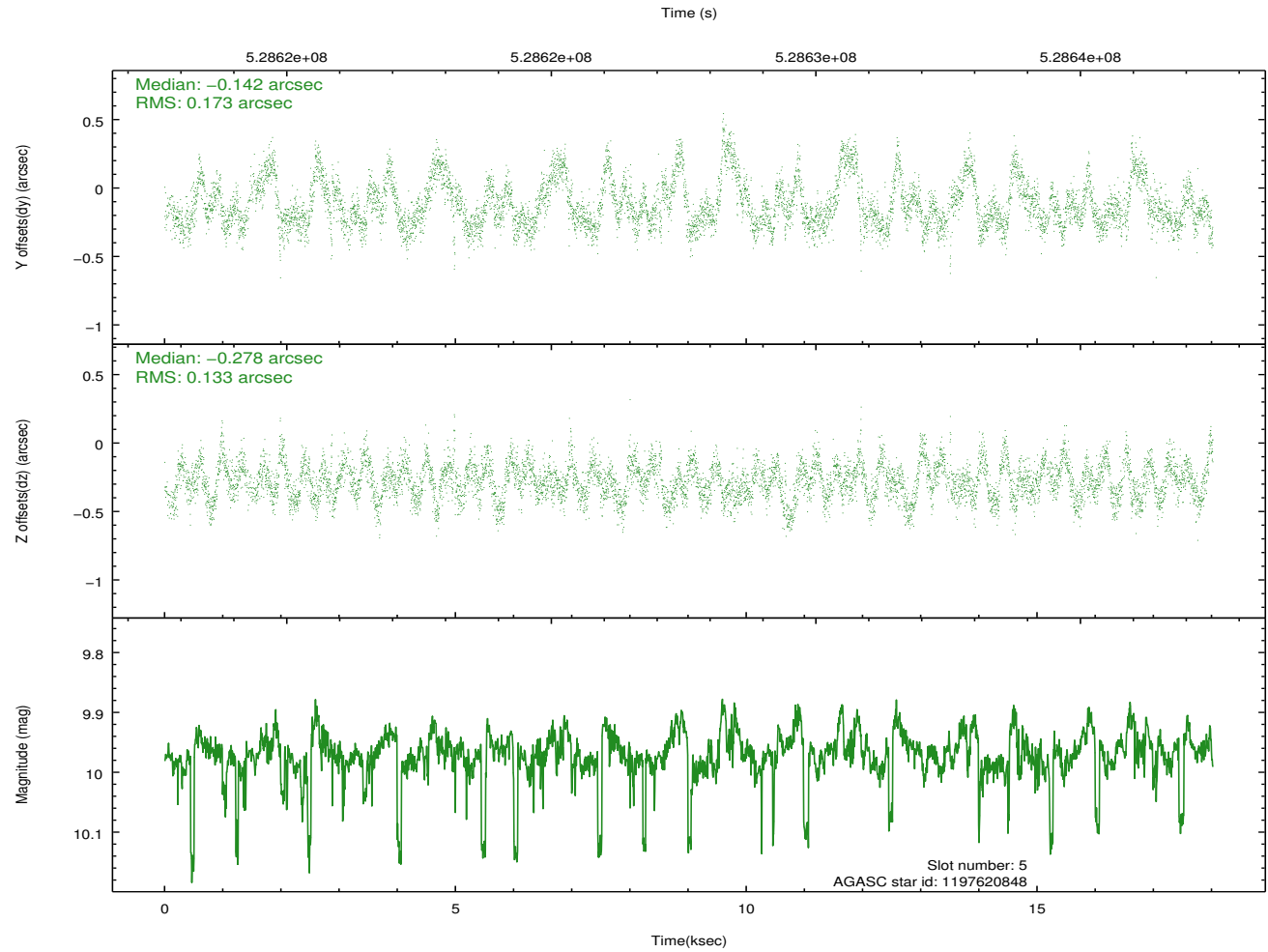
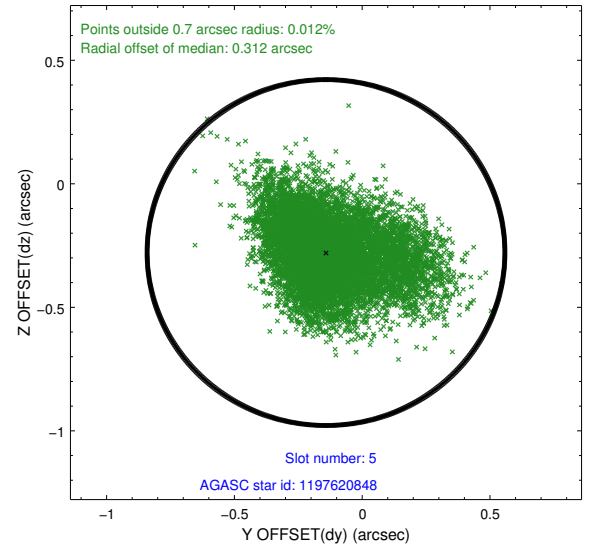
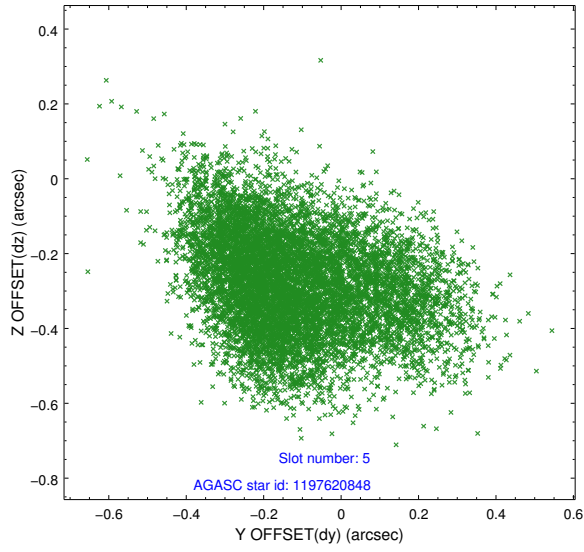
2.4.2 Slot 4



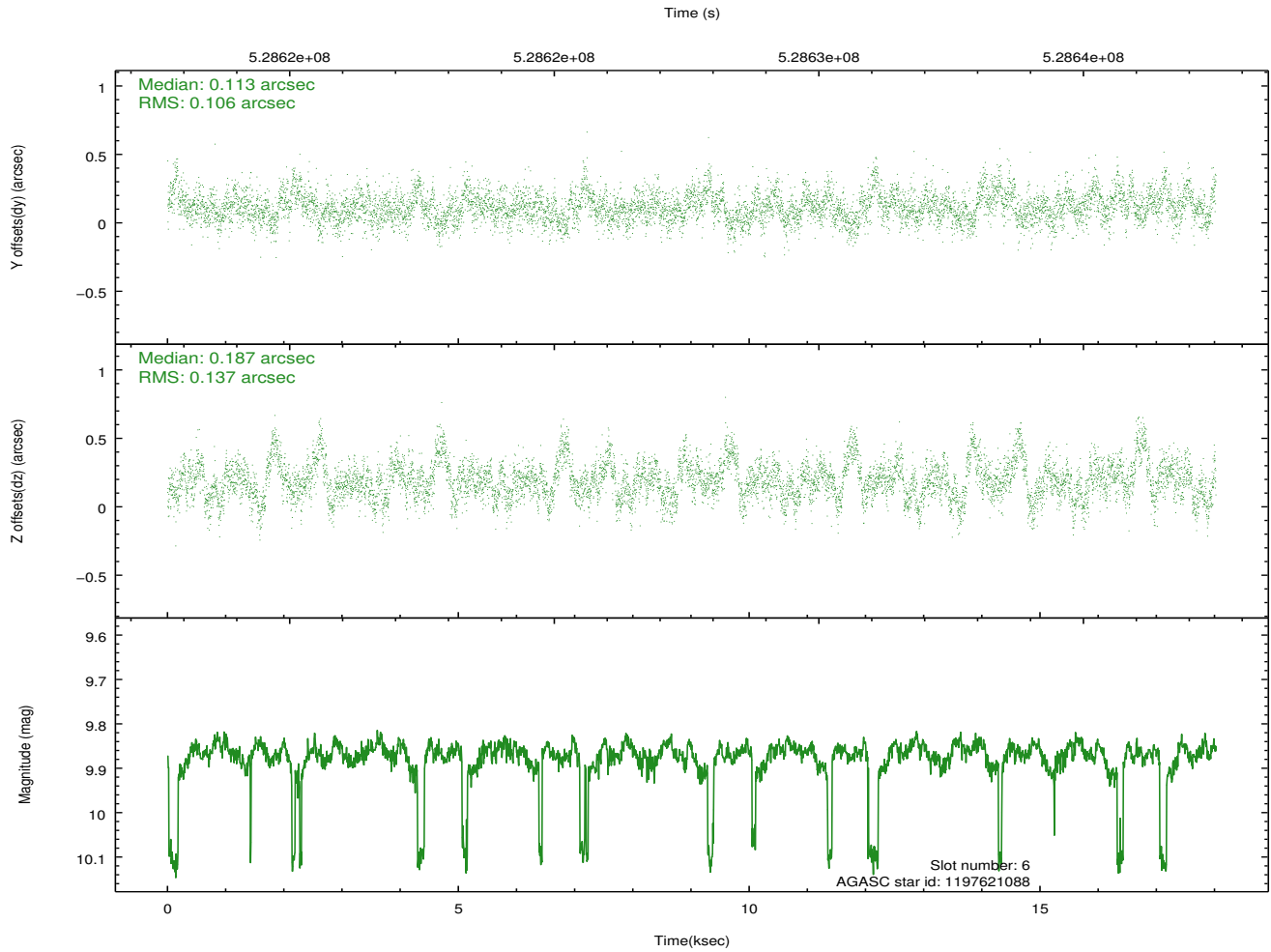
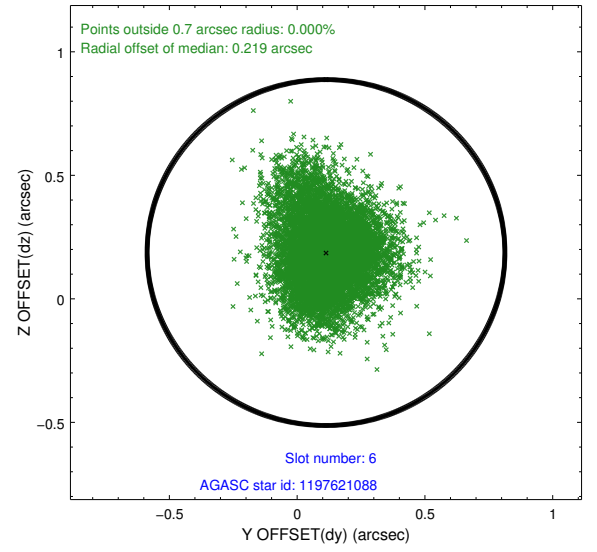
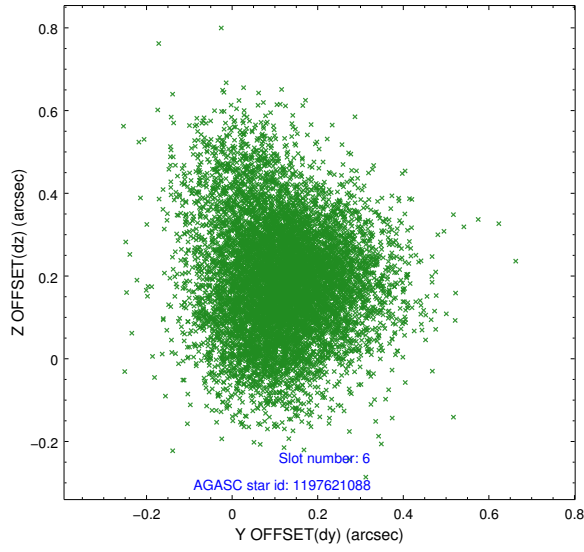
Time (s)



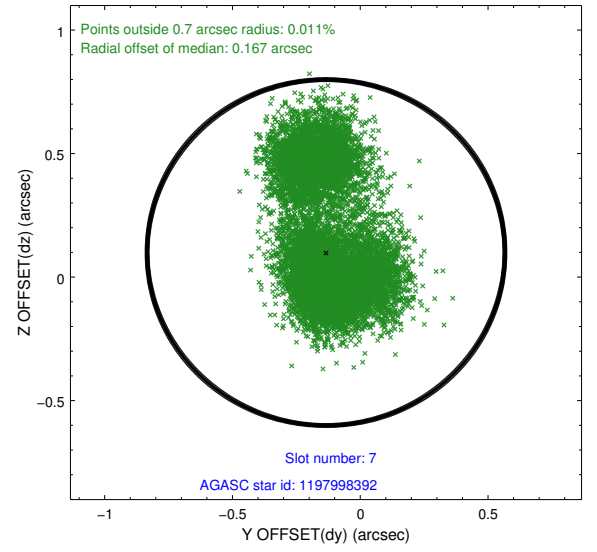
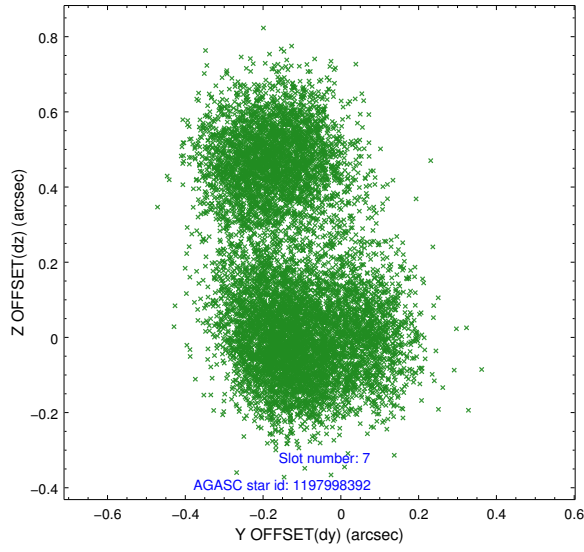
2.4.3 Slot 5



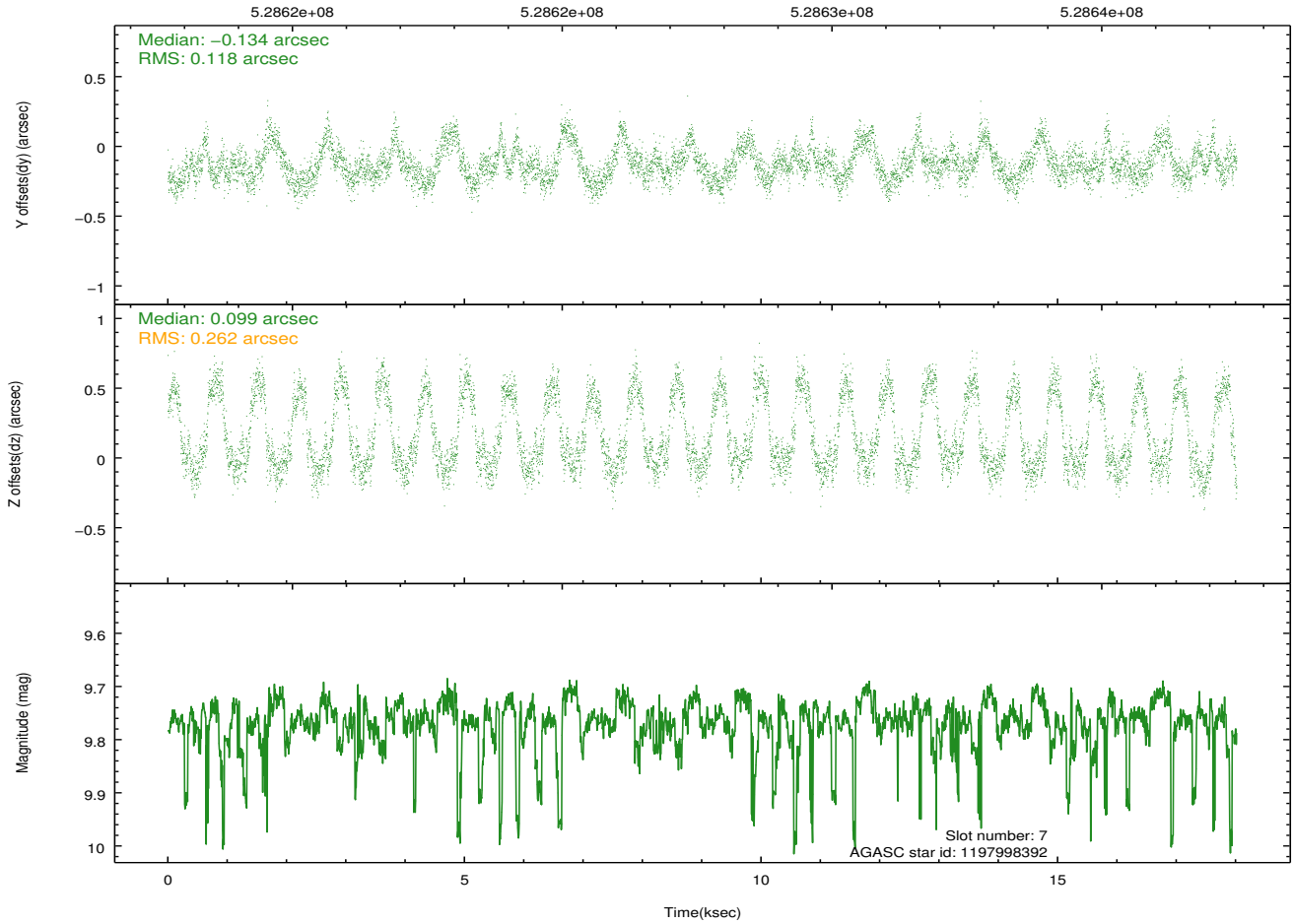
2.4.4 Slot 6



2.4.5 Slot 7

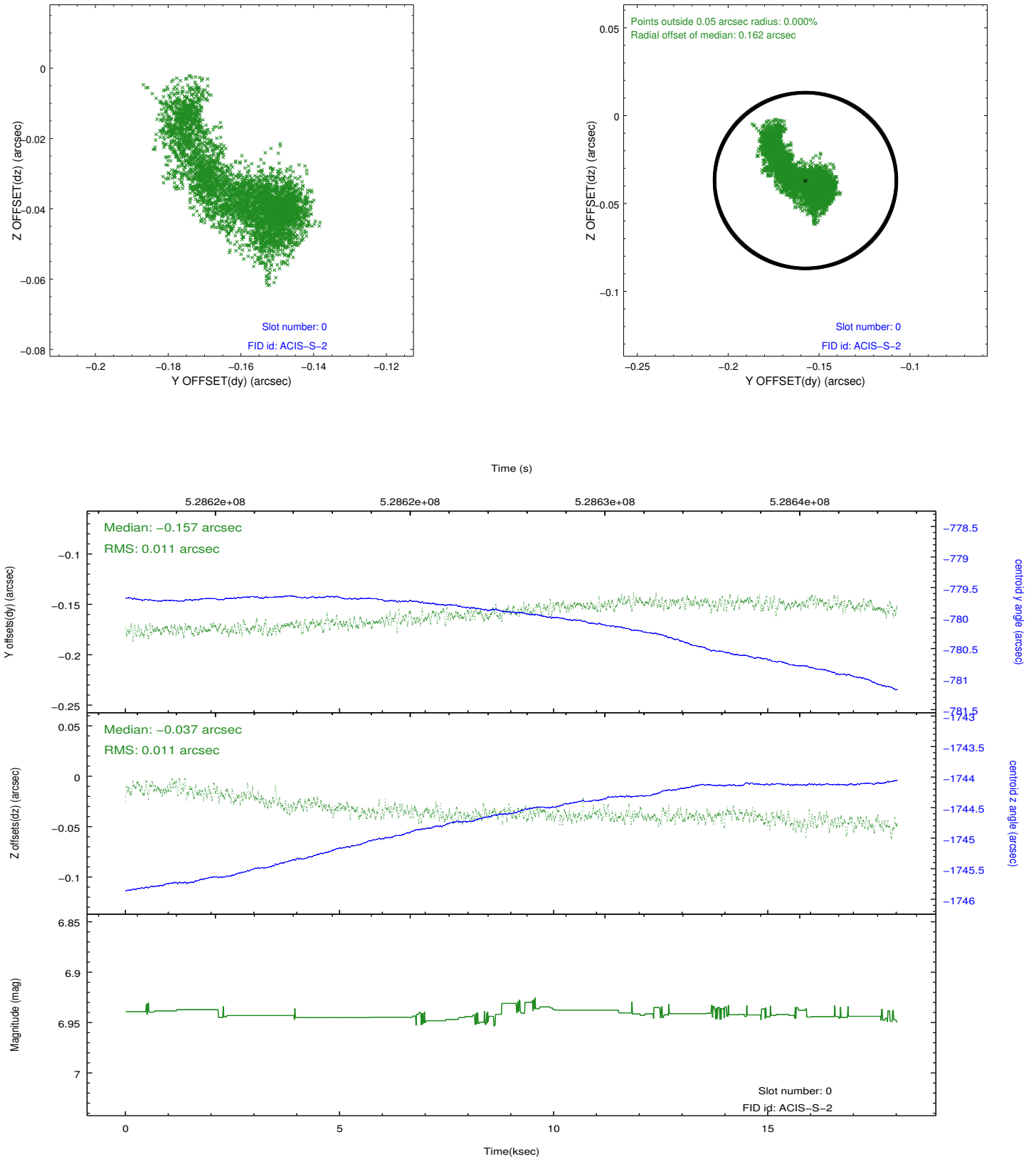


Time (s)

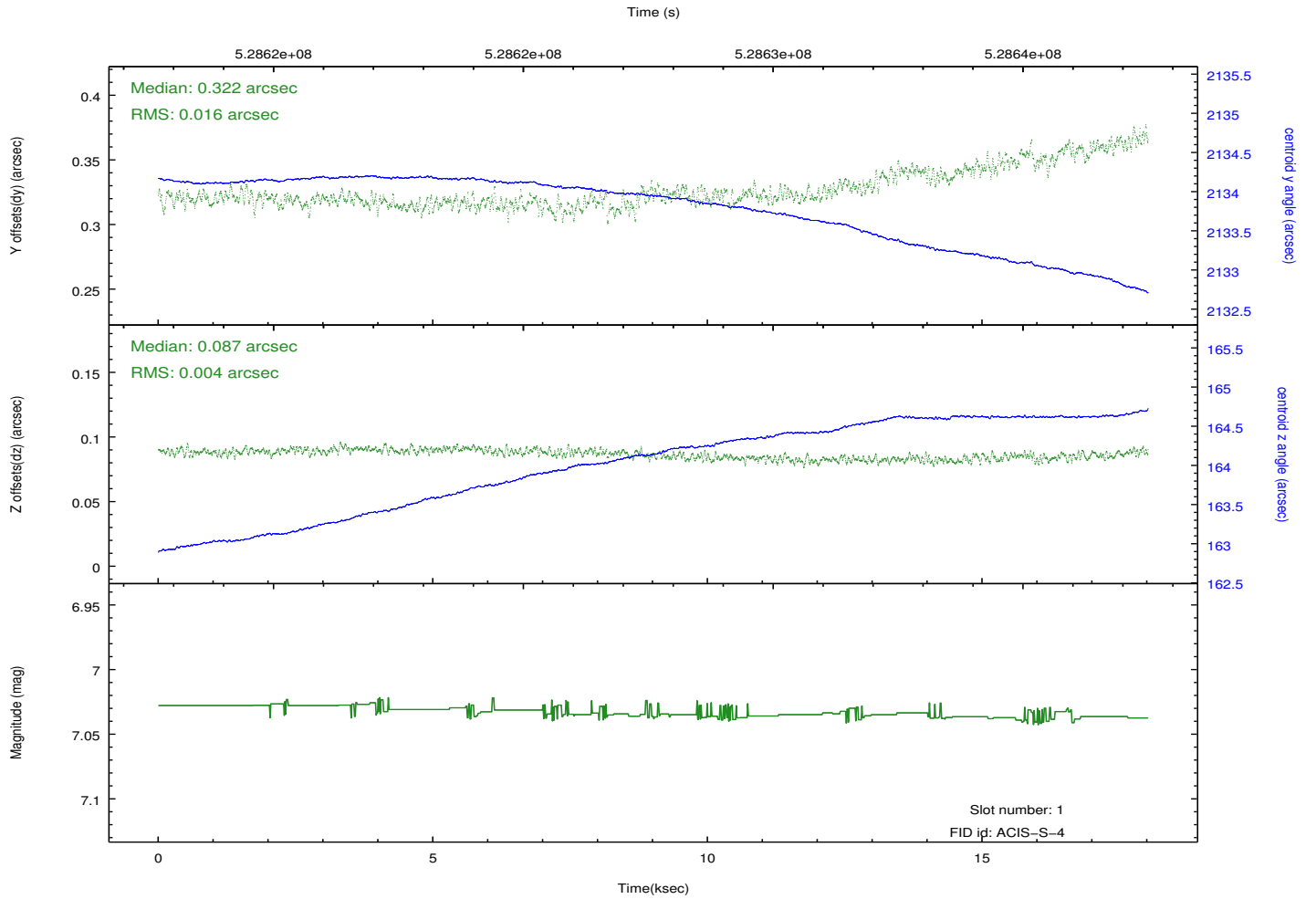
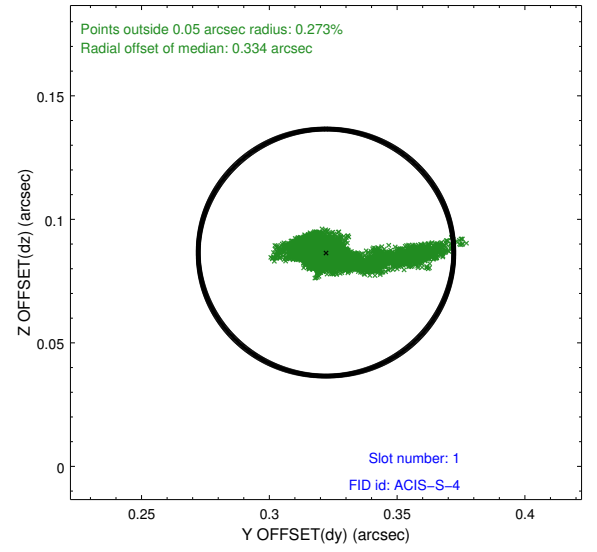
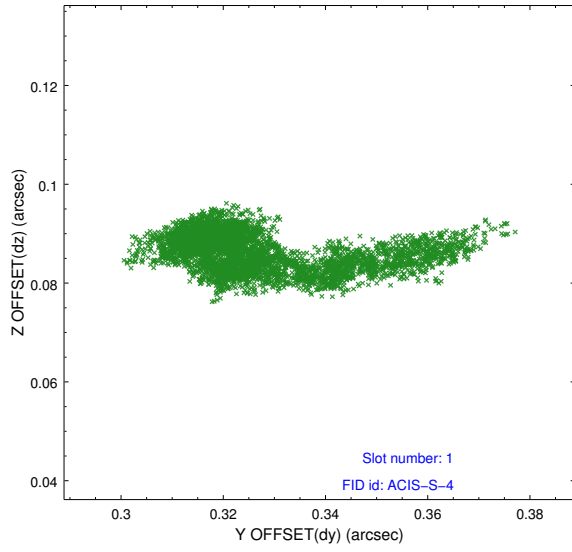


2.5 FID Slots

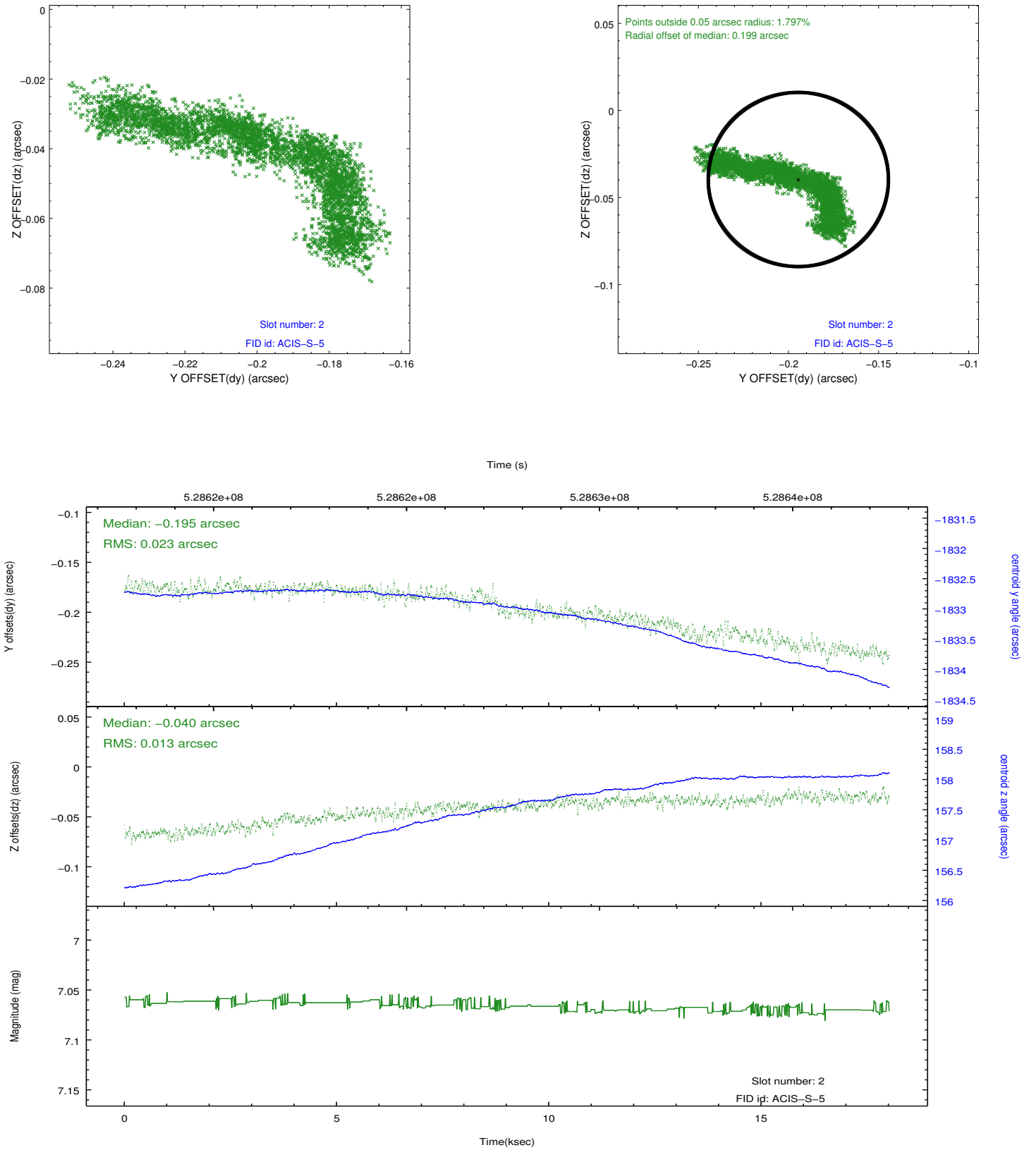
2.5.1 Slot 0



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)	2014.10.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	17.90434405458

A.2 Comments