

V&V Reference Report

L2 ASCDS Version : 10.2.4

Observation 15750 - L2 Version 1
Chandra X-Ray Center

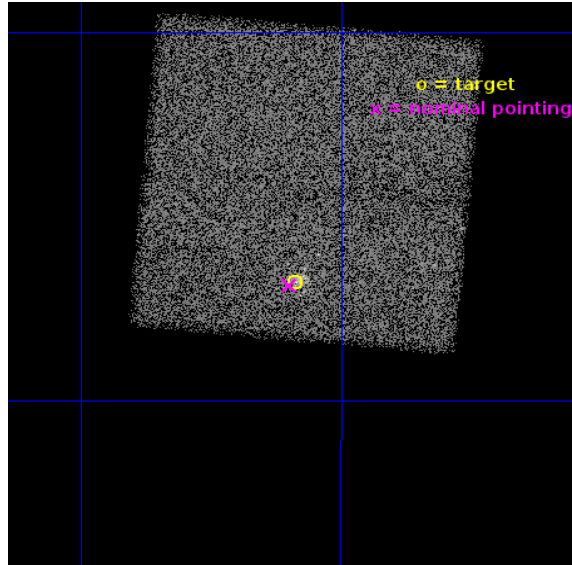
L2 Processing Date : Jul 21 2014

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

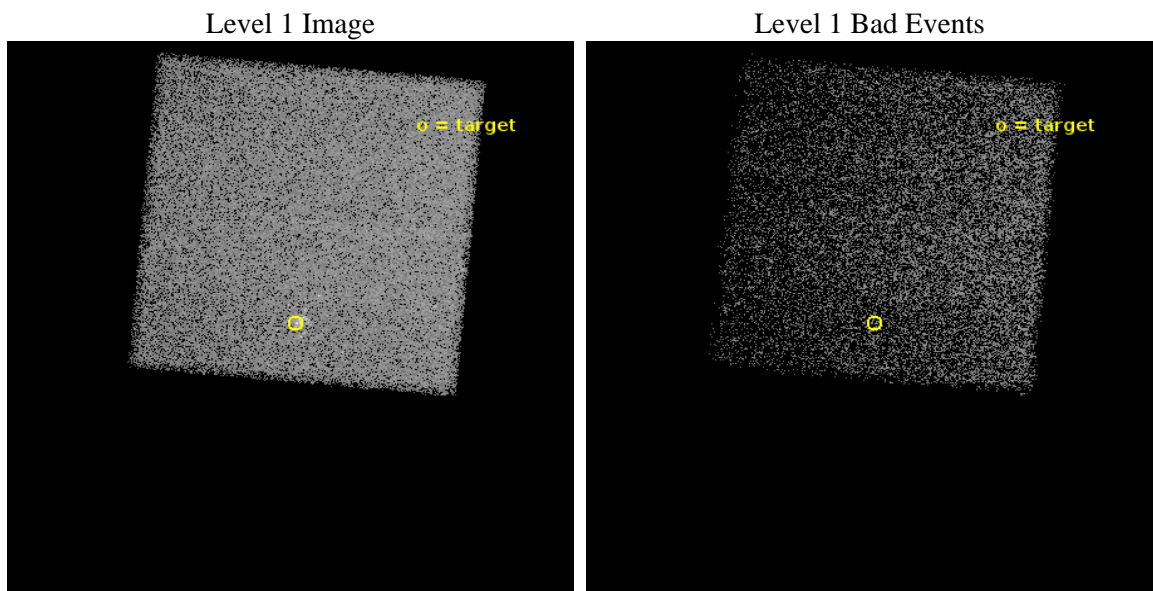
seq_num	401547	Sequence number
obs_id	15750	Observation id
title	Observing a cooling neutron star crust in Terzan 5	Proposal title
observer	Dr Nathalie Degenaar	Principal investigator
object	Terzan 5	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	267.021667	Observer's specified target RA [deg]
dec_targ	-24.779806	Observer's specified target Dec [deg]
ra_nom	267.02469239424	Nominal RA [deg]
dec_nom	-24.781297540909	Nominal Dec [deg]
roll_nom	275.15790449123	Nominal Roll [deg]
revision	1	Processing version of data
ontime	23303.464772463	Sum of GTIs [s]
livetime	22988.97558644	Livetime [s]
ontime7	23303.464772463	Sum of GTIs [s]
l2events	68540	Number of level 2 events



2 OBI

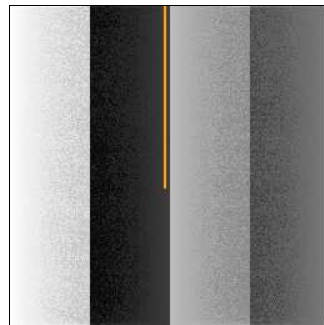
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	23211.883000	[s] Scheduled observation exposure time
ascdsver	10.2.4	Processing system revision	ontime	23303.464772463	Sum of GTIs [s]
caldsver	4.6.2	 	ontime7	23303.464772463	Sum of GTIs [s]
date	2014-07-21T06:55:51	Date and time of file creation	l1events	154436	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

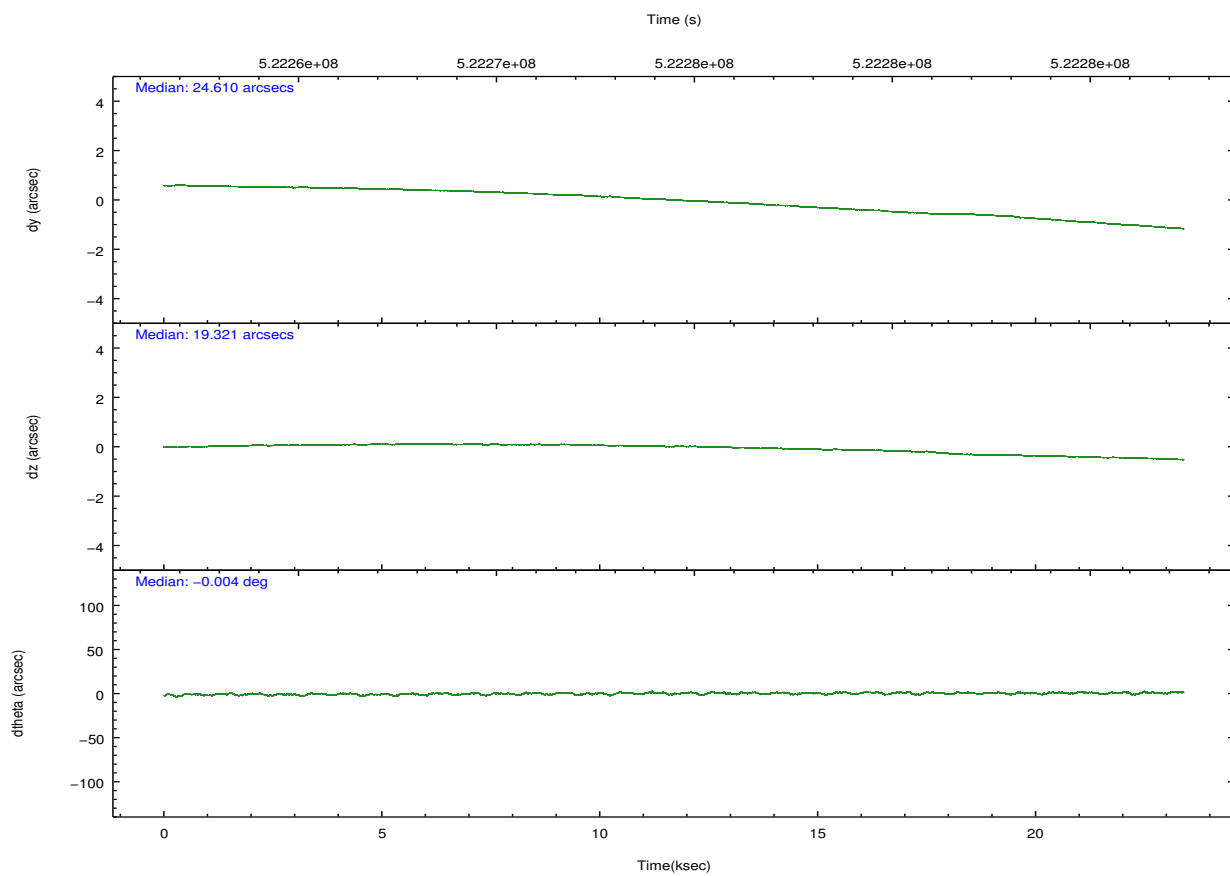
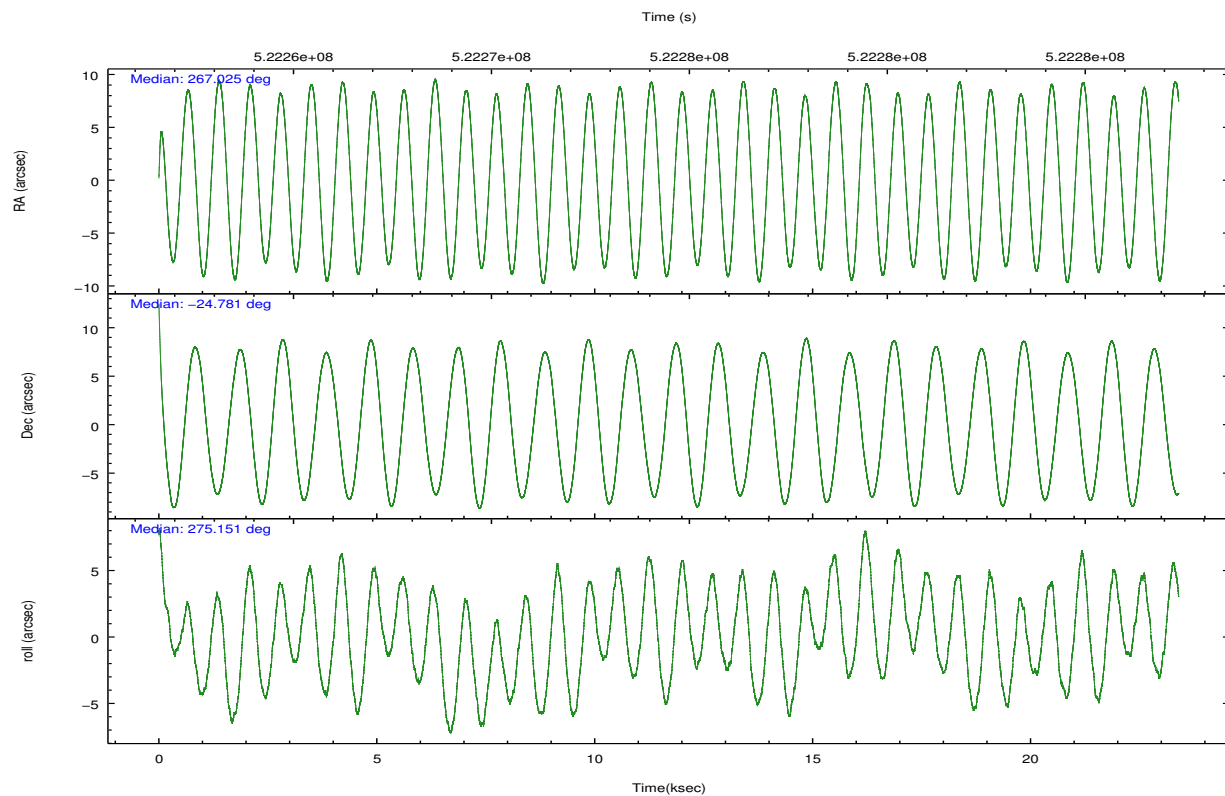
	ccd 7
level 1 events	154436
rejected events	84175
rejected %	54%

	ccd 7
grade 0 events	6621
	4%
grade 1 events	168
	0%
grade 2 events	14773
	9%
grade 3 events	6125
	3%
grade 4 events	6177
	3%
grade 5 events	15440
	9%
grade 6 events	36583
	23%
grade 7 events	68549
	44%

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	267.006959	267.0246923942409	Subarray requested	NONE	NONE
[deg] Pointing Dec	-24.759052	-24.78129754090903	Alternating exposures requested	N	N
[deg] Pointing Roll	274.993844	275.1579044912282	[s] Primary exposure time	0.000000	3
[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)	522262971.184000	522261764.66303			
Observation start date	2014-07-20T17:01:44	2014-07-20T16:42:44			
[s] Observation end time (MET)	522286183.184000	522286408.73939			
Observation end date	2014-07-20T23:28:36	2014-07-20T23:33:28			
Read mode	TIMED	TIMED			

2.3 Aspect

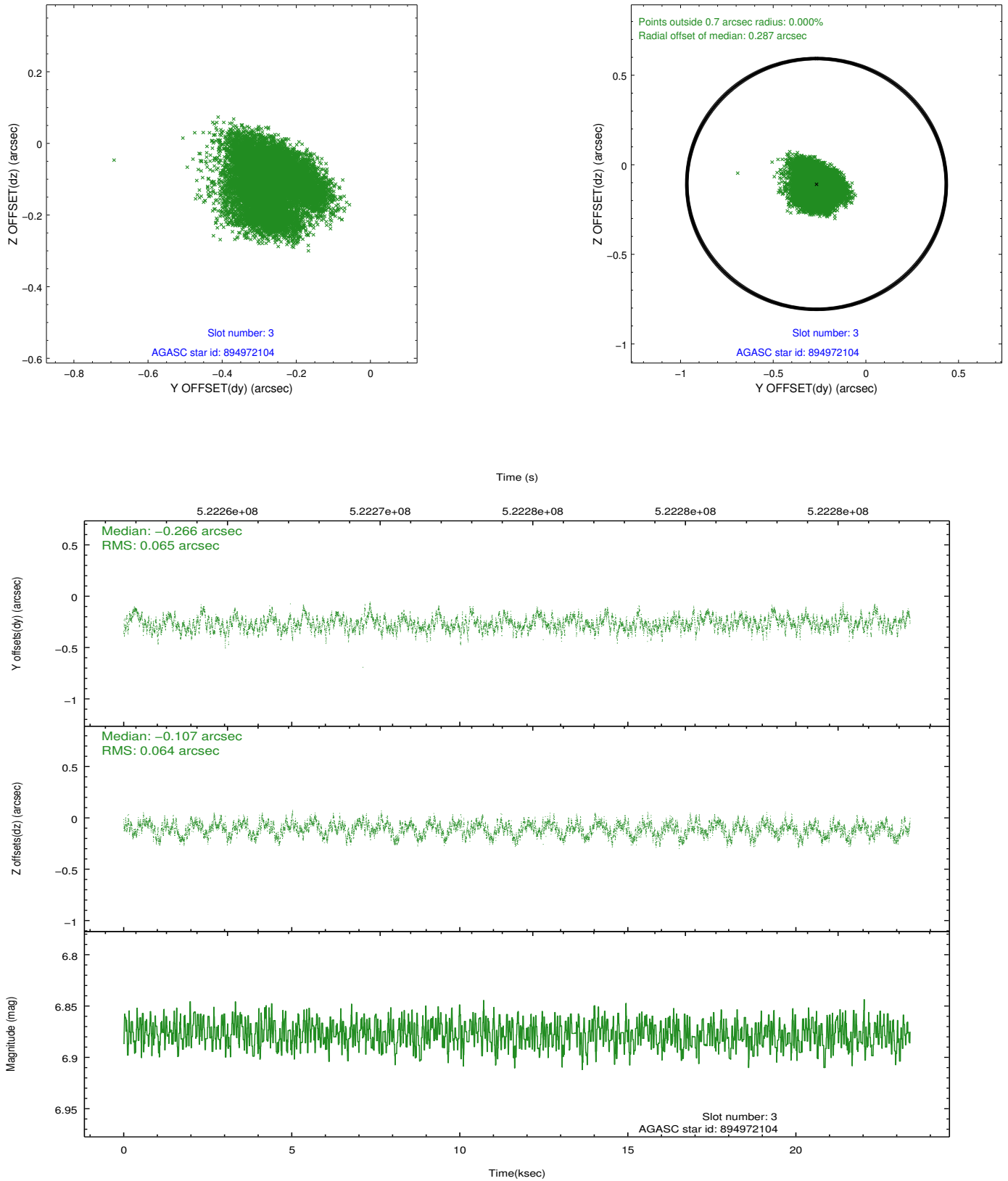


Slot Statistics

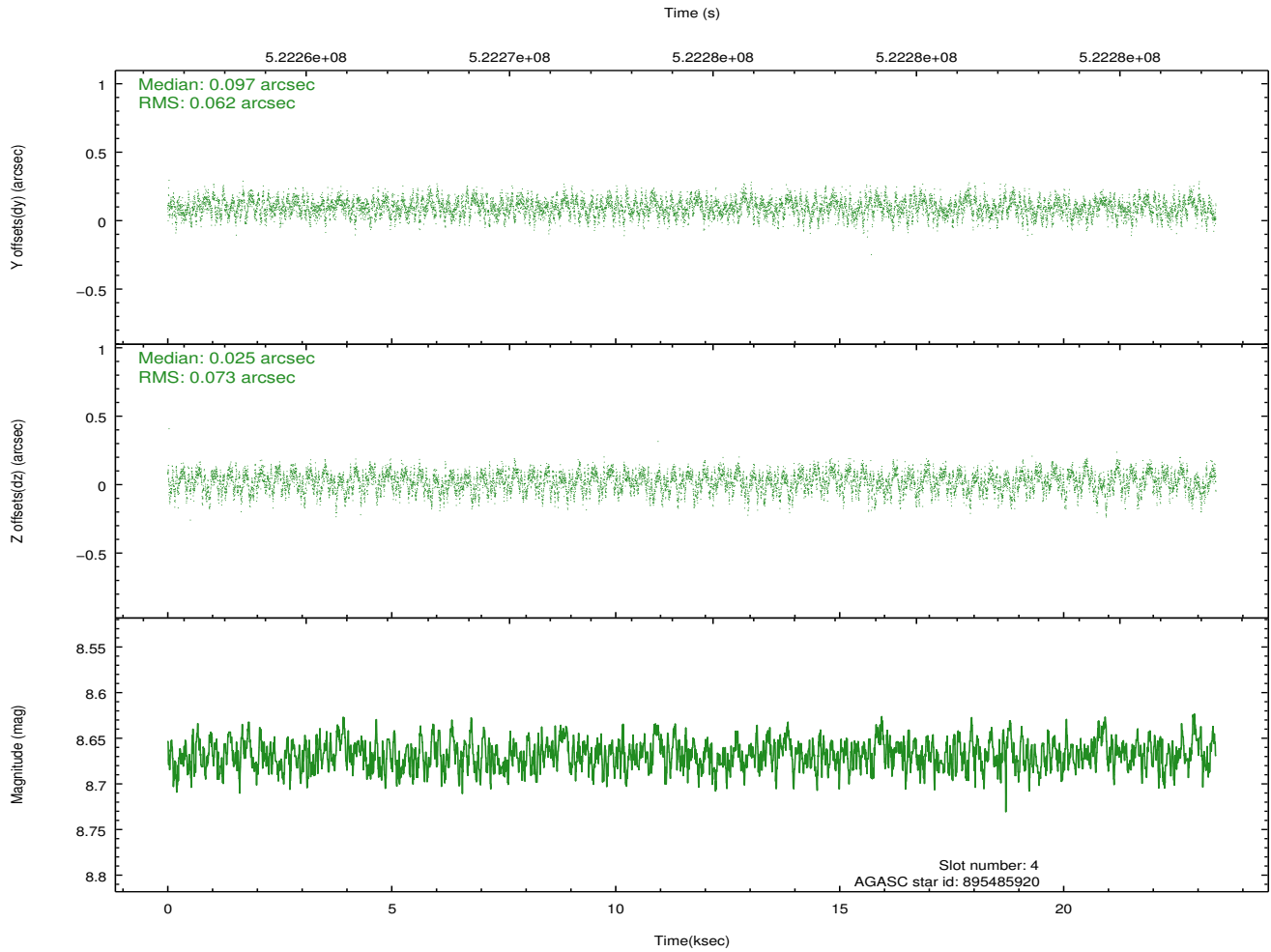
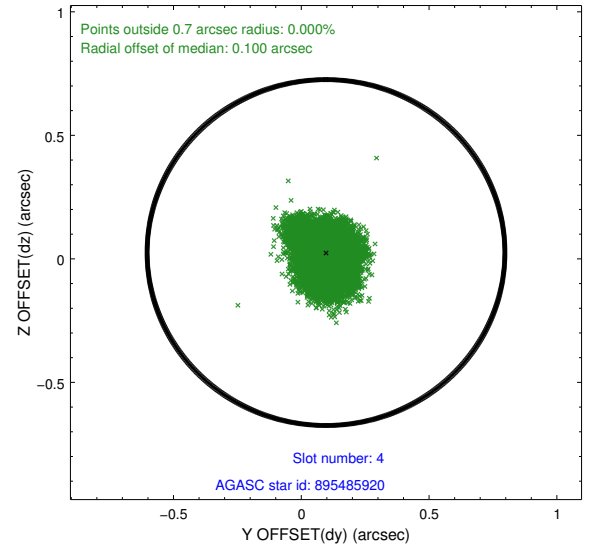
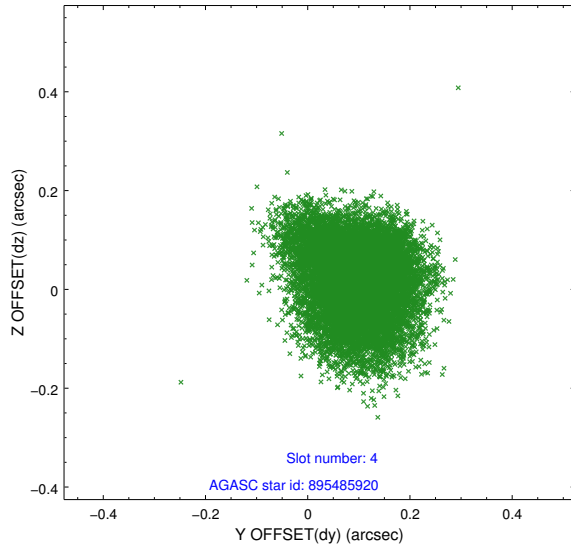
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.03	5707	-0.191	-0.054	0.018	0.041	0.000000	0.000000	-777.95	-1740.72
1	FID	ACIS-S-4	7.12	5707	0.395	0.106	0.013	0.028	0.000000	0.000000	2135.86	167.75
2	FID	ACIS-S-5	7.15	5708	-0.238	-0.046	0.019	0.036	0.000000	0.000000	-1830.65	161.46
3	GUIDE	894972104	6.88	11415	-0.266	-0.107	0.099	0.151	267.489380	-24.207054	-1838.79	1749.89
4	GUIDE	895485920	8.67	11413	0.097	0.025	0.102	0.162	266.932426	-25.188840	1520.58	-375.95
5	GUIDE	895488888	8.55	11408	0.063	-0.058	0.078	0.126	266.751949	-24.913497	482.80	-877.68
6	GUIDE	894973544	8.06	11415	-0.019	0.312	0.073	0.115	266.605572	-24.141151	-2328.14	-1120.27
7	GUIDE	895489704	8.80	11406	0.130	-0.157	0.142	0.225	266.328076	-25.361339	1974.96	-2388.96

2.4 Star Slots

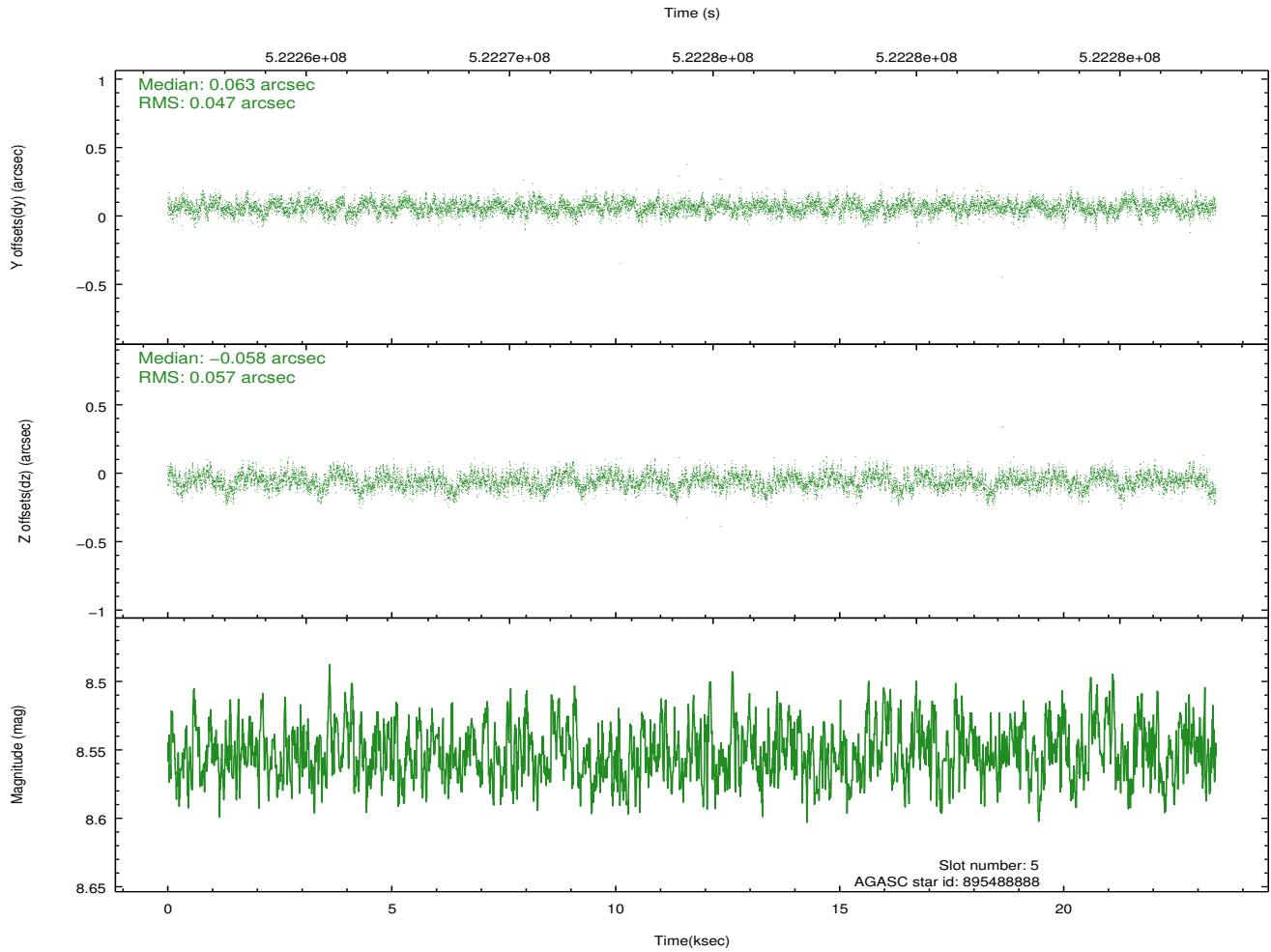
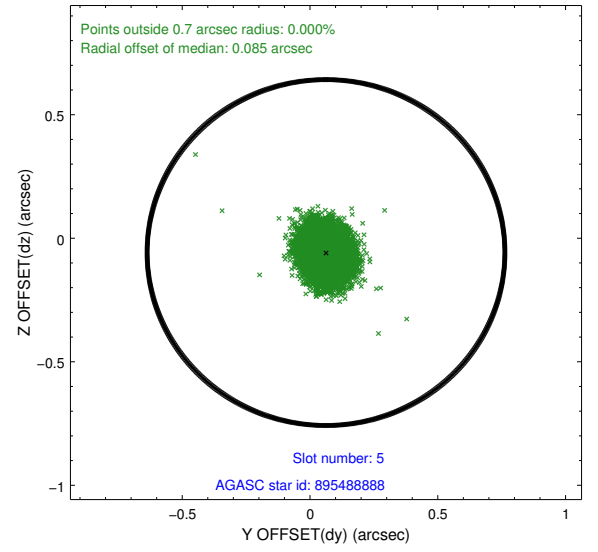
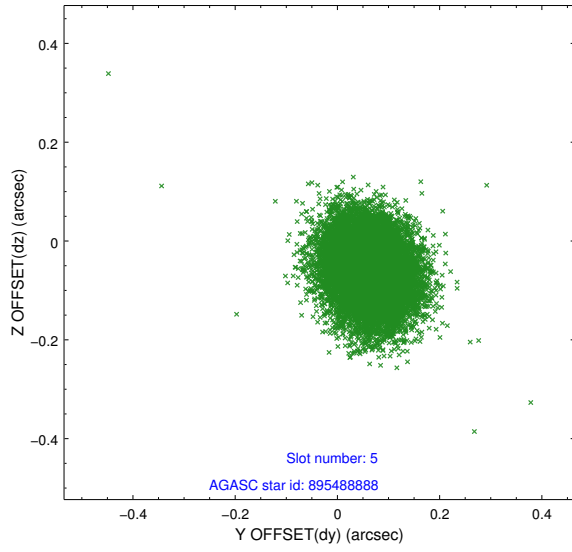
2.4.1 Slot 3



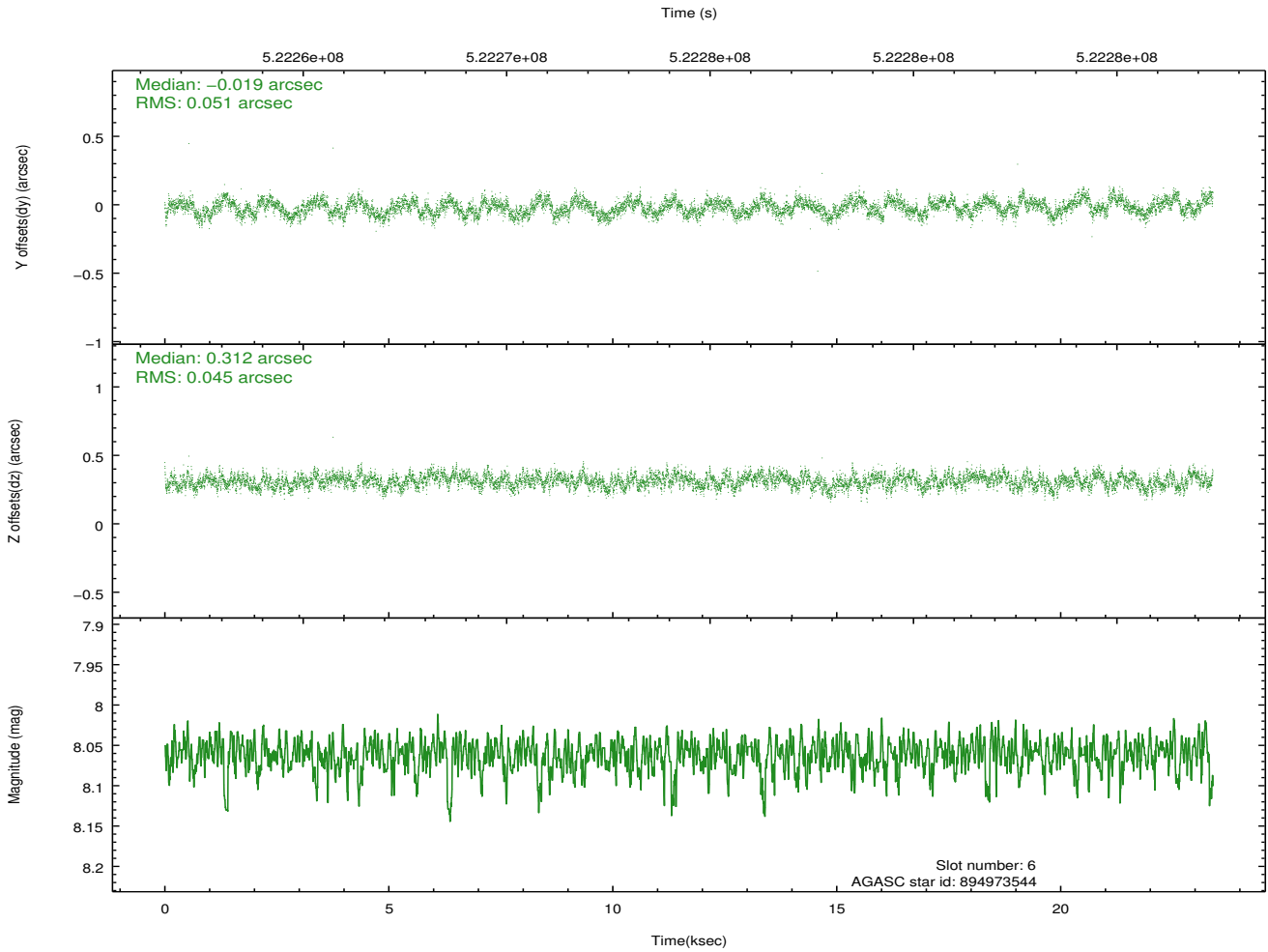
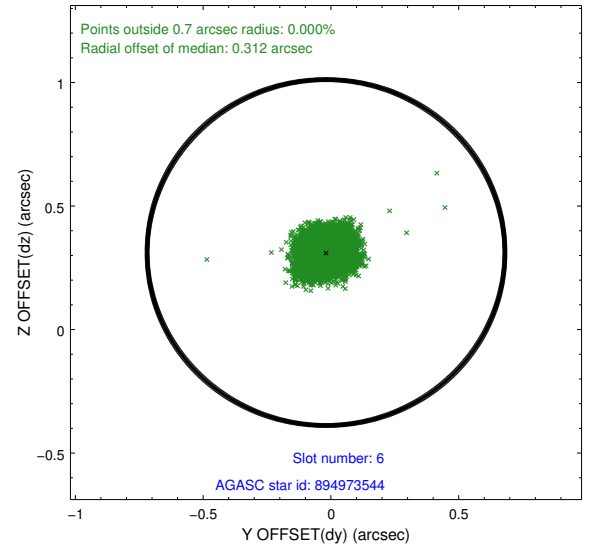
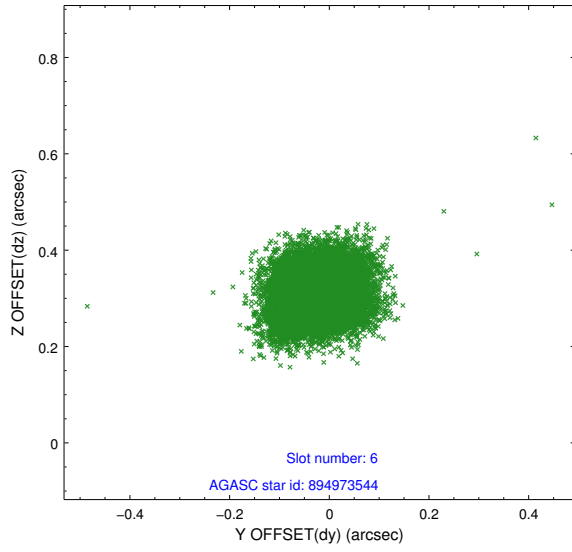
2.4.2 Slot 4



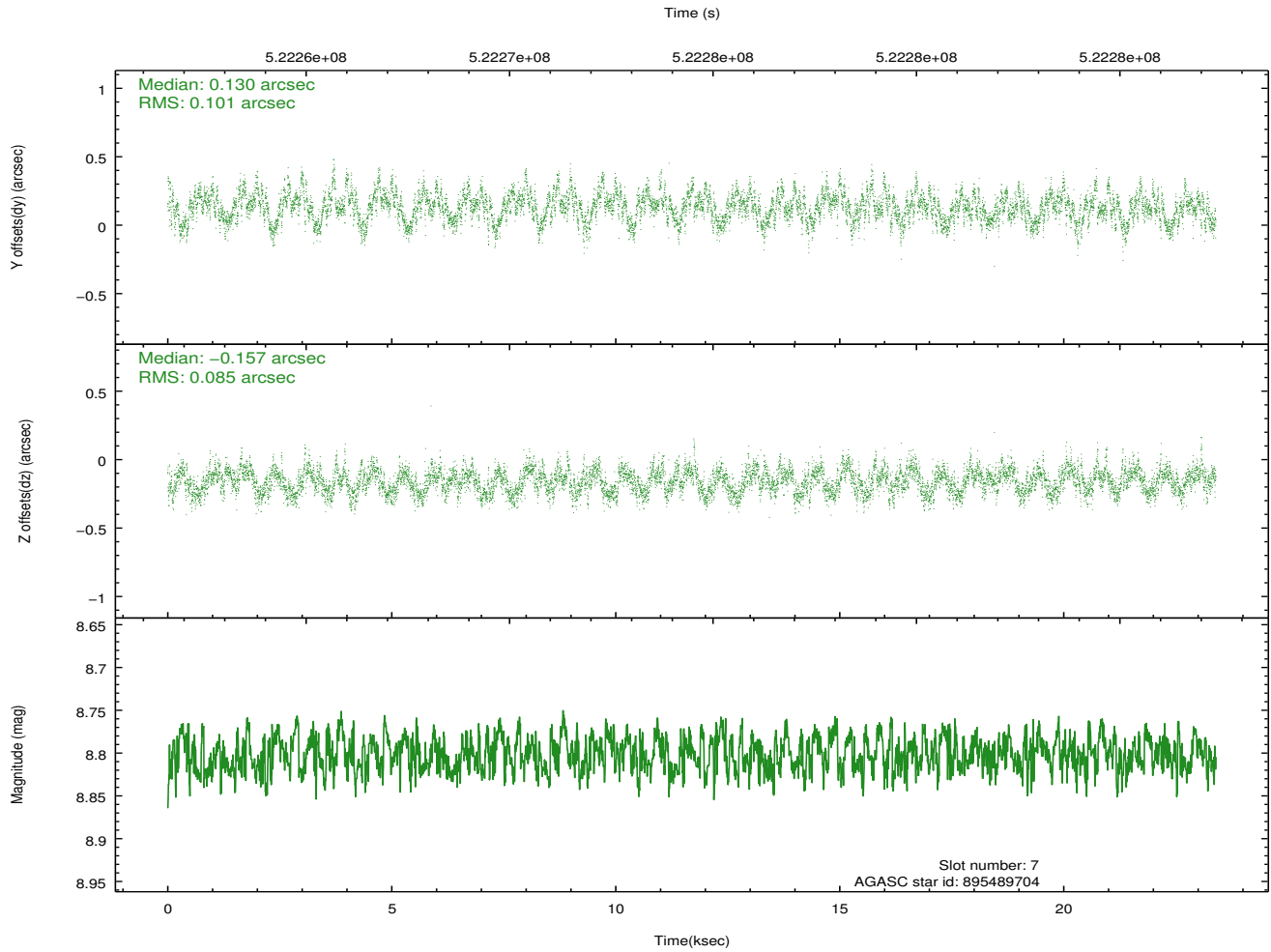
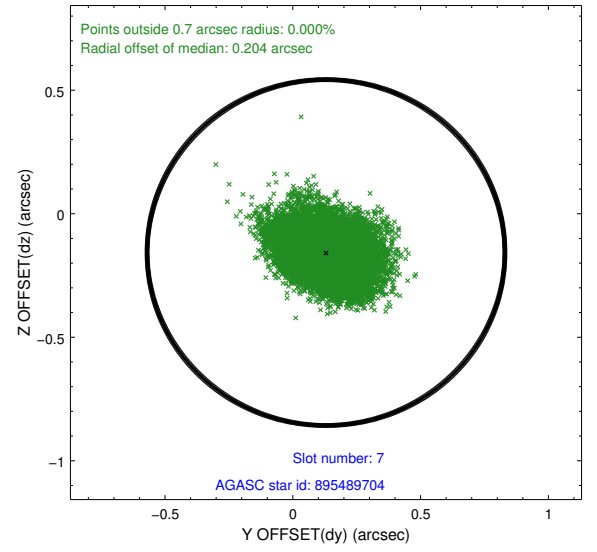
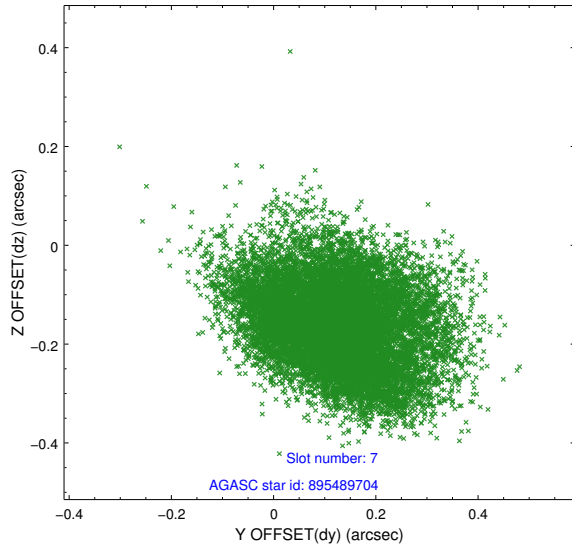
2.4.3 Slot 5



2.4.4 Slot 6

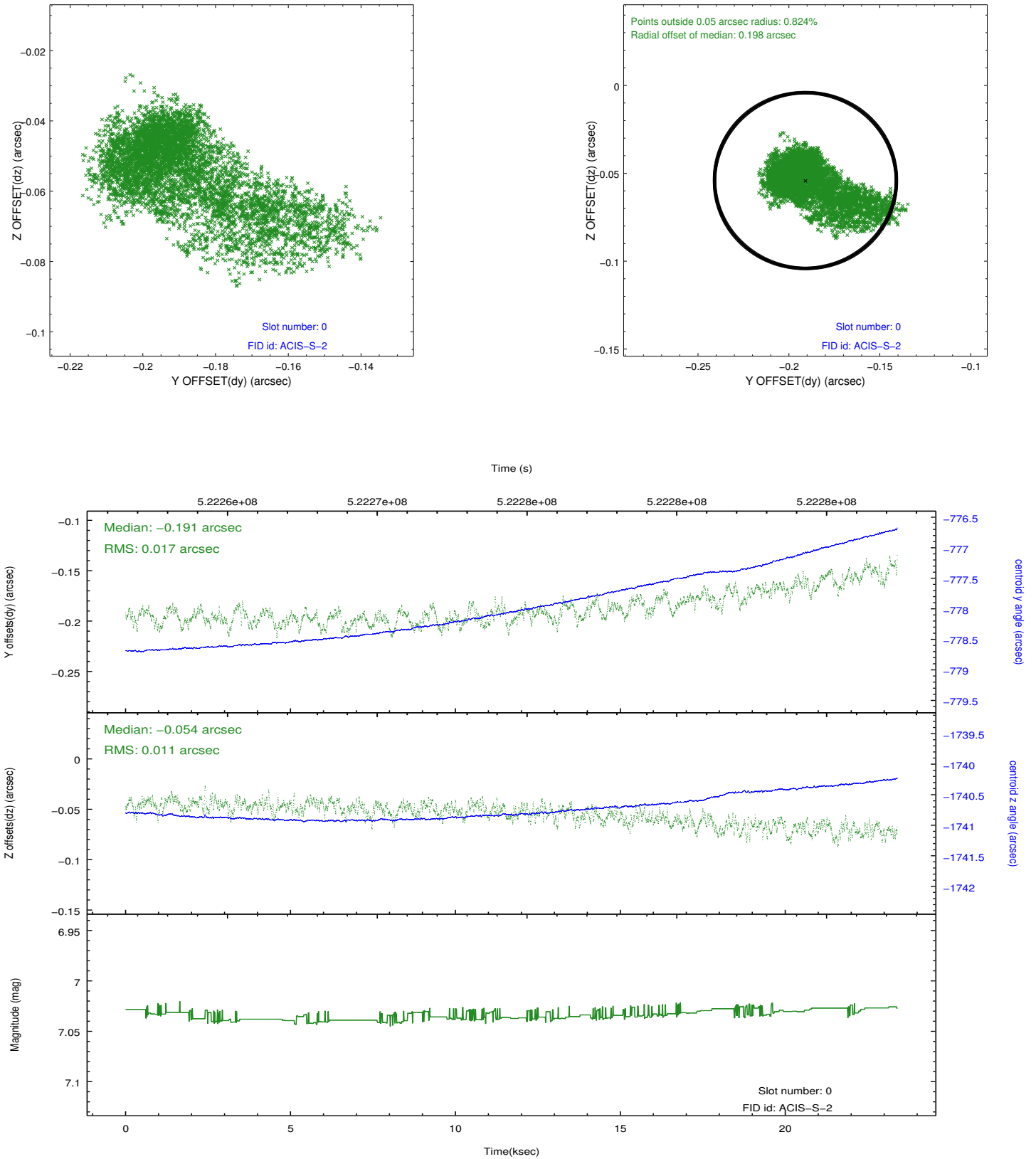


2.4.5 Slot 7

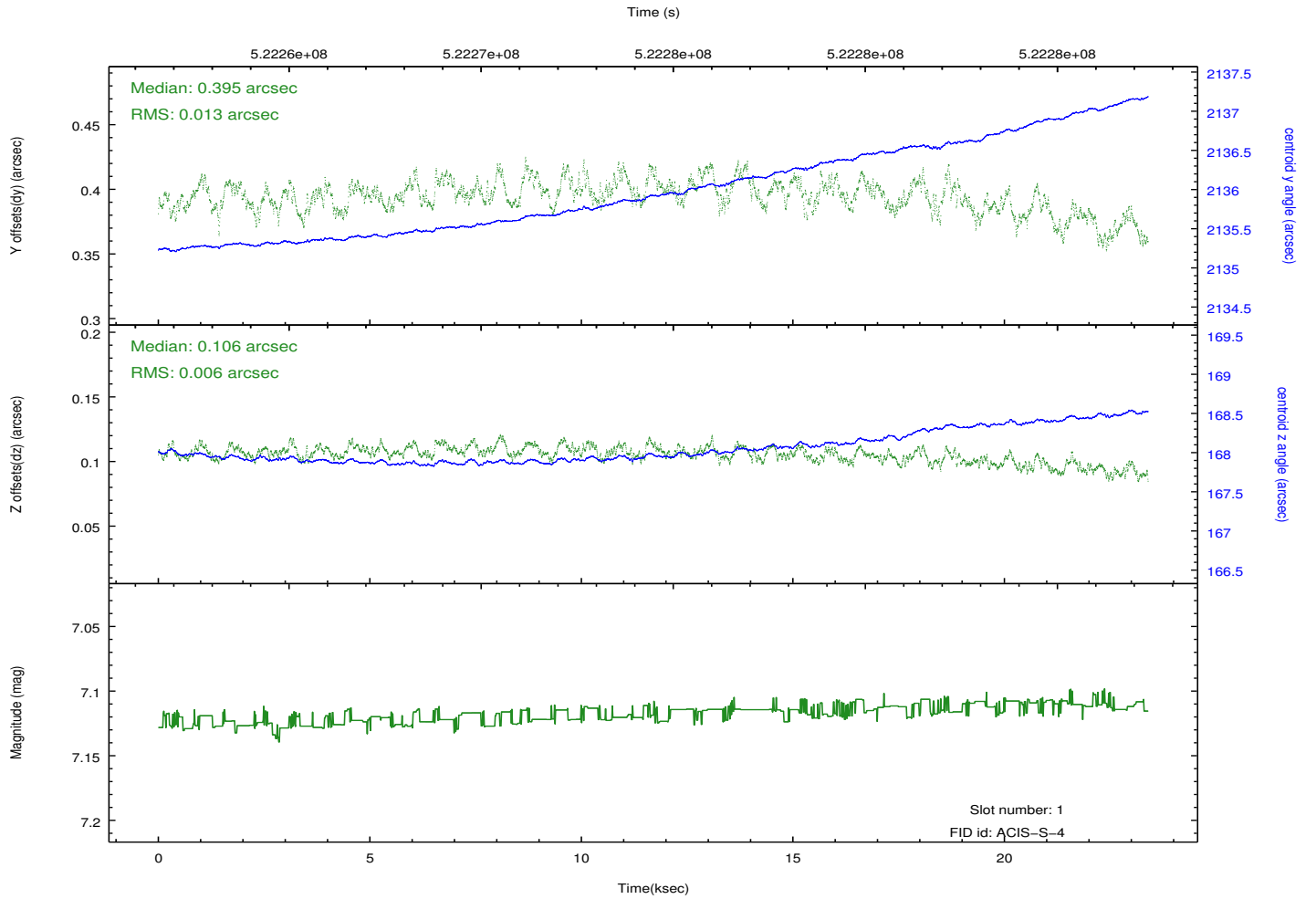
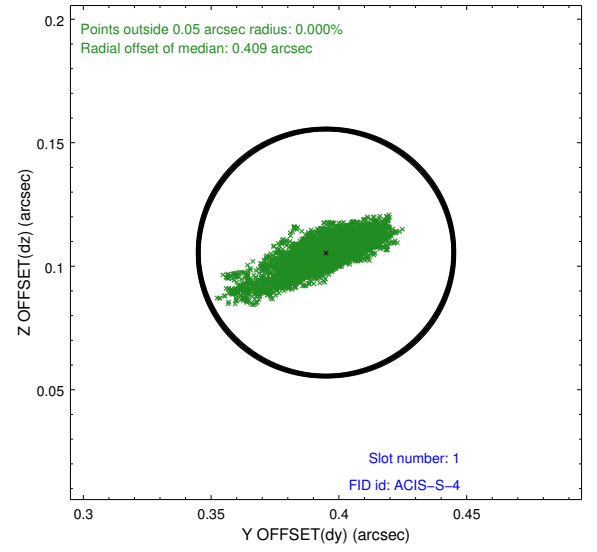
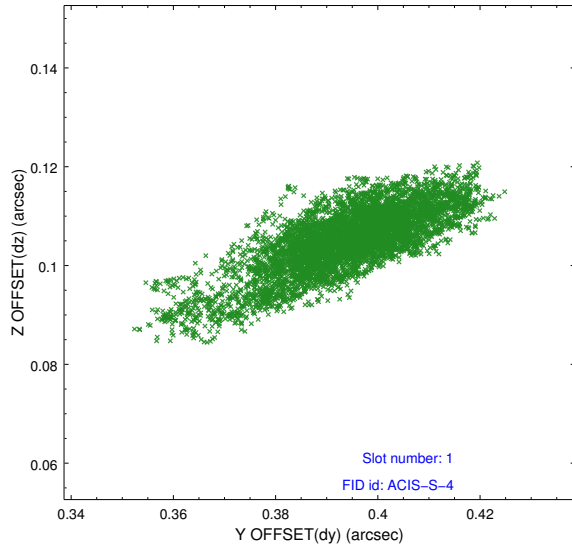


2.5 FID Slots

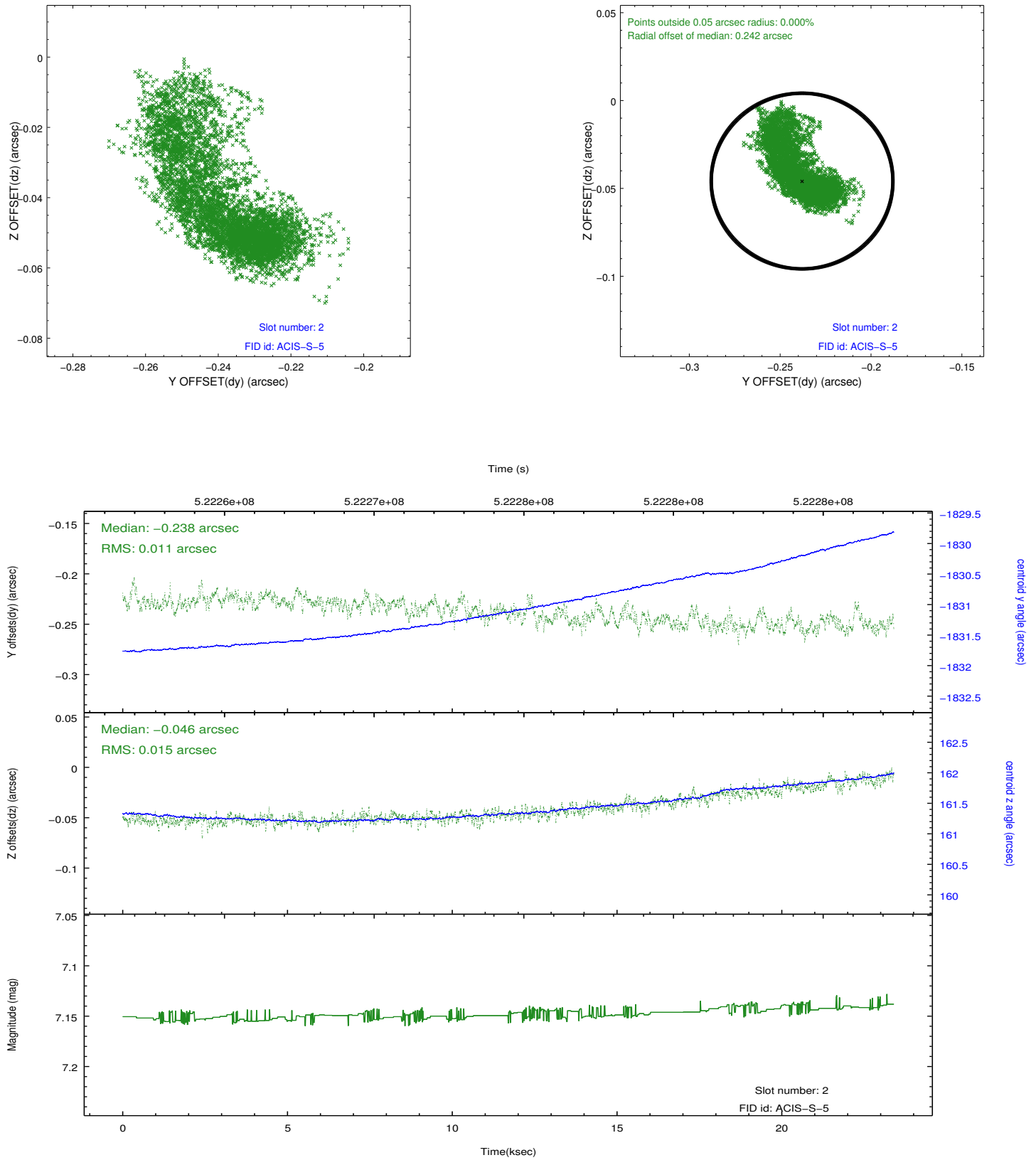
2.5.1 Slot 0



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)	2014.07.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	23.303464772463

A.2 Comments