

V&V Reference Report

L2 ASCDS Version : 10.4.1

Observation 16724 - L2 Version 1
Chandra X-Ray Center

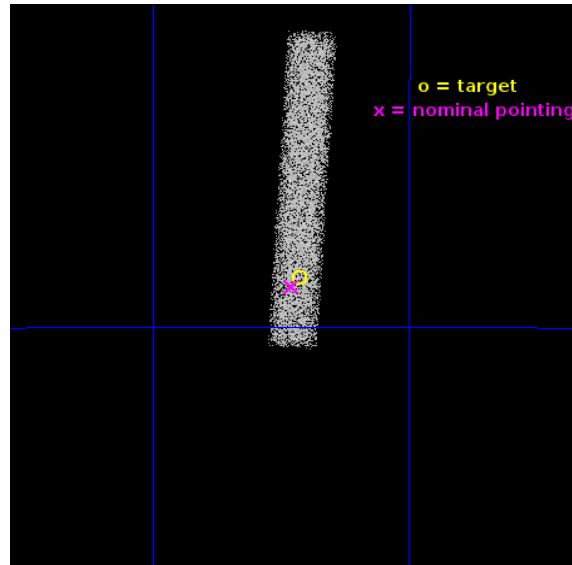
L2 Processing Date : Jul 28 2015

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1 Front

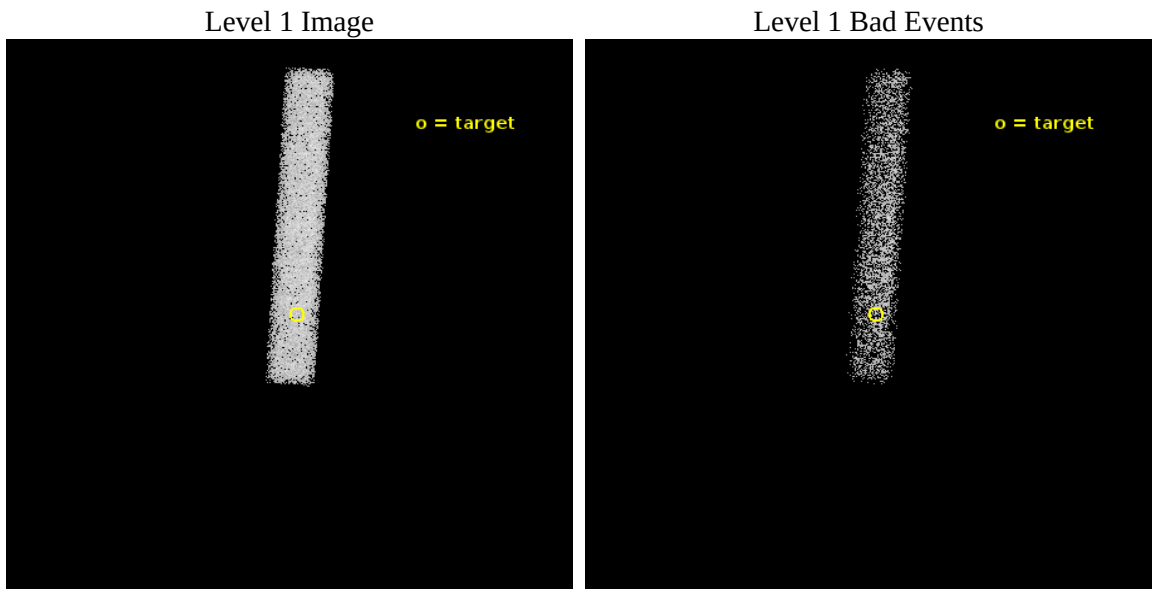
seq_num	401646	Sequence number
obs_id	16724	Observation id
title	Crust cooling of accretion-heated neutron stars	Proposal title
observer	Dr. Rudy Wijnands	Principal investigator
object	GRO J1750-27	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	267.303333	Observer's specified target RA [deg]
dec_targ	-26.644111	Observer's specified target Dec [deg]
ra_nom	267.30744215263	Nominal RA [deg]
dec_nom	-26.648106636976	Nominal Dec [deg]
roll_nom	273.50087794667	Nominal Roll [deg]
revision	1	Processing version of data
ontime	30069.432723761	Sum of GTIs [s]
livetime	27271.388285653	Livetime [s]
ontime7	30069.432723761	Sum of GTIs [s]
l2events	14339	Number of level 2 events



2 OBI

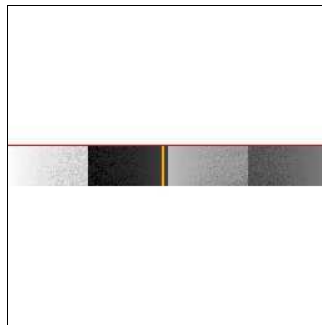
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	30000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.1	Processing system revision	ontime	30069.432723761	Sum of GTIs [s]
caldsver	4.6.8	 	ontime7	30069.432723761	Sum of GTIs [s]
date	2015-07-28T10:13:56	Date and time of file creation	l1events	29529	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

	ccd 7
level 1 events	29529
rejected events	14614
rejected %	49%

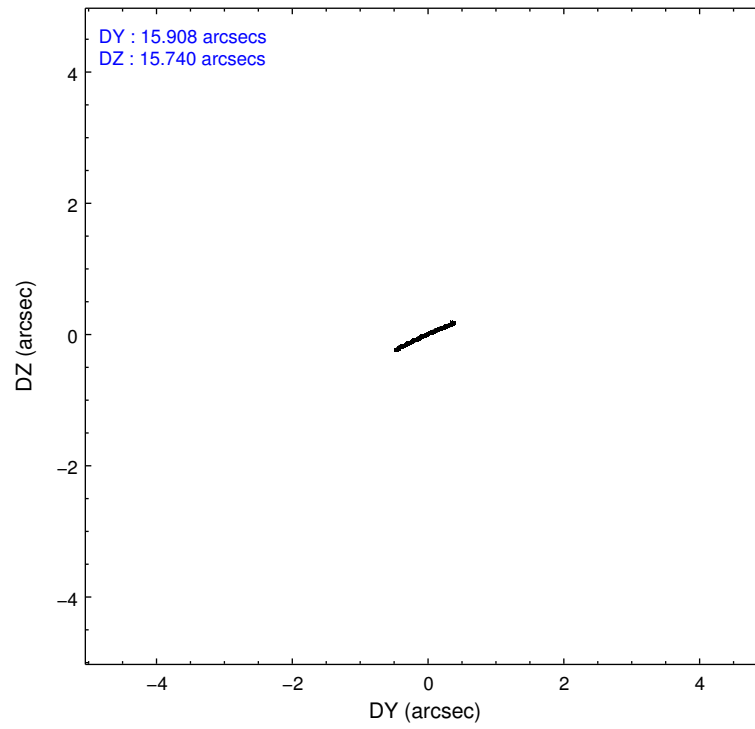
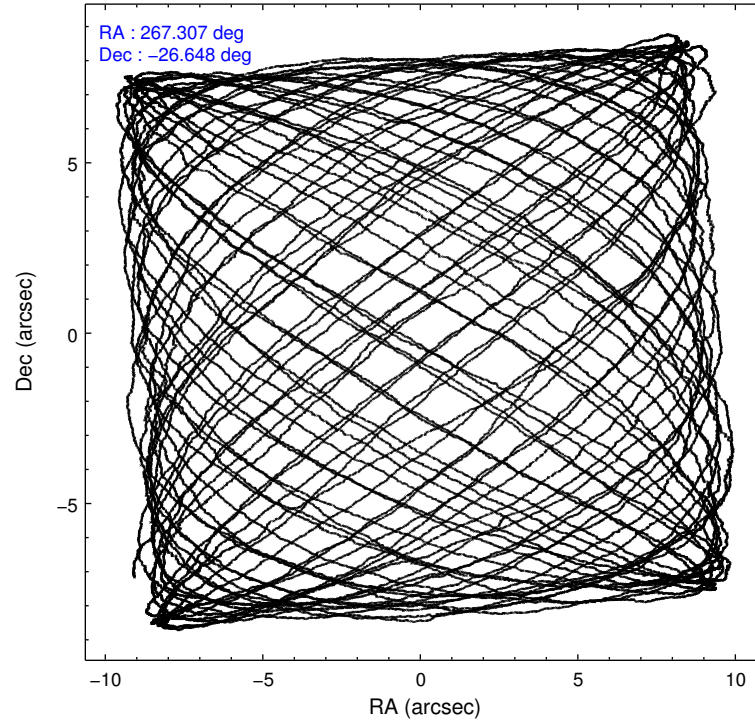
	ccd 7
grade 0 events	1671
	5%
grade 1 events	42
	0%
grade 2 events	2912
	9%
grade 3 events	1923
	6%
grade 4 events	1833
	6%
grade 5 events	2932
	9%
grade 6 events	6576
	22%
grade 7 events	11640
	39%

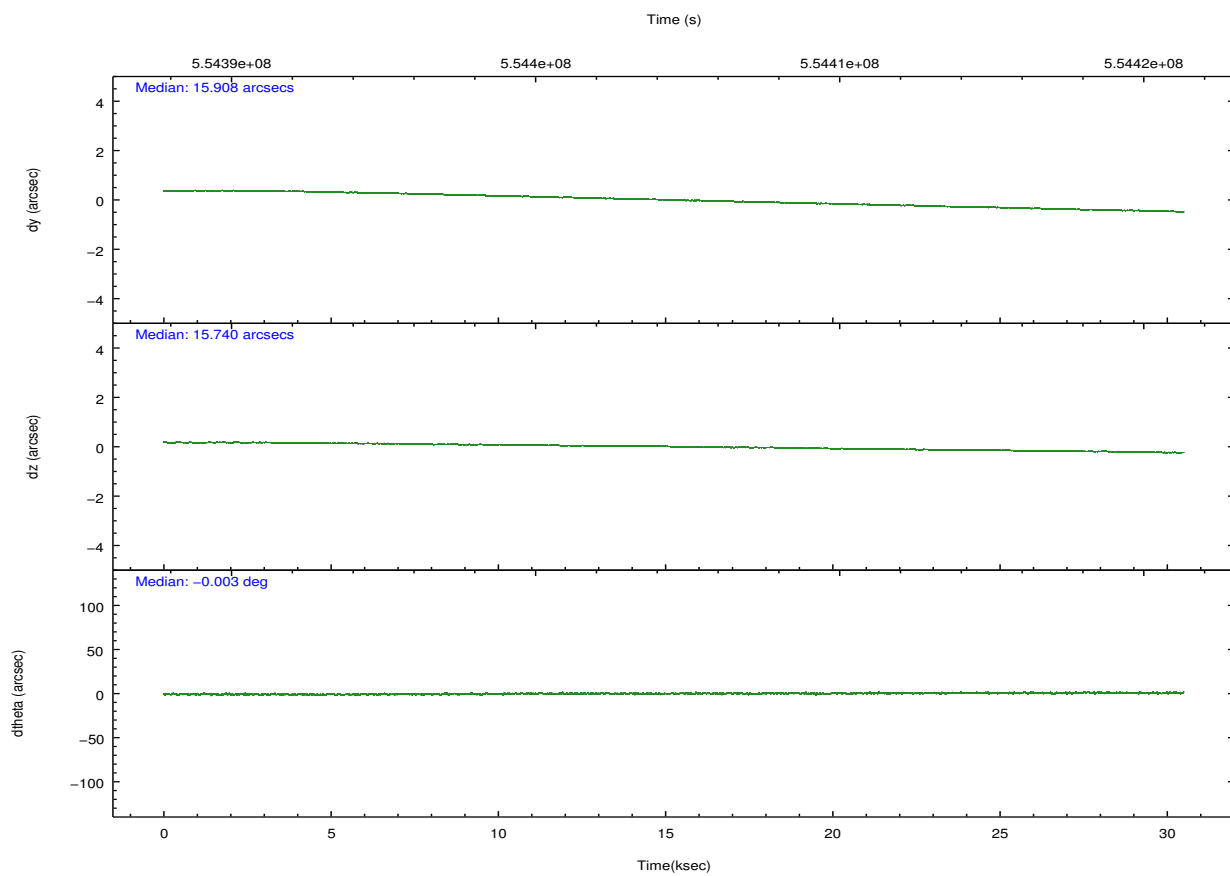
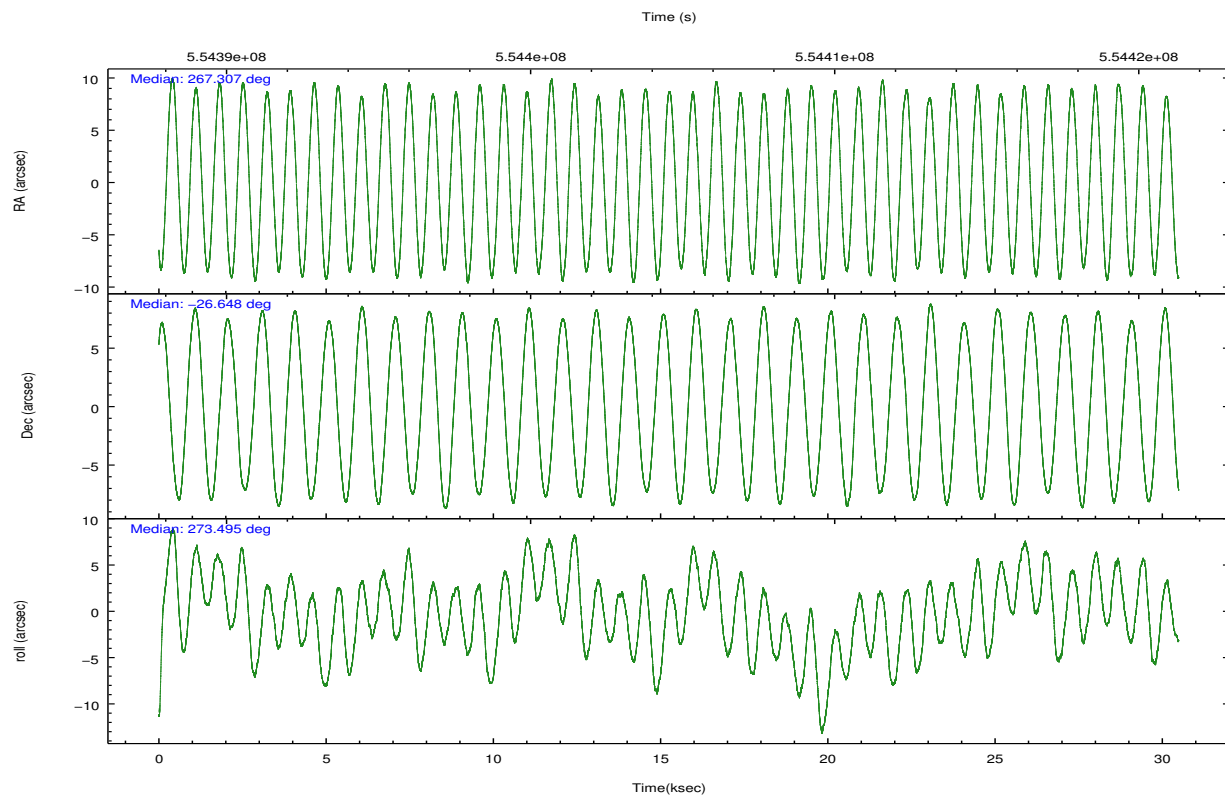
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-7	ACIS-7
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	267.290162	267.3074421526341
[deg] Pointing Dec	-26.625428	-26.64810663697604
[deg] Pointing Roll	273.336510	273.5008779466704
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1400660498719
[mm] SIM translation stage offset	0	0.00754346686406393
[s] Observation start time (MET)	554389800.184000	554388936.46912
Observation start date	2015-07-27T13:08:52	2015-07-27T12:55:36
[s] Observation end time (MET)	554419800.184000	554420213.3208801
Observation end date	2015-07-27T21:28:52	2015-07-27T21:36:53
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	CUSTOM	1/8
Subarray start row	449	449
Subarray row count	128	128
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	0.4

2.3 Aspect



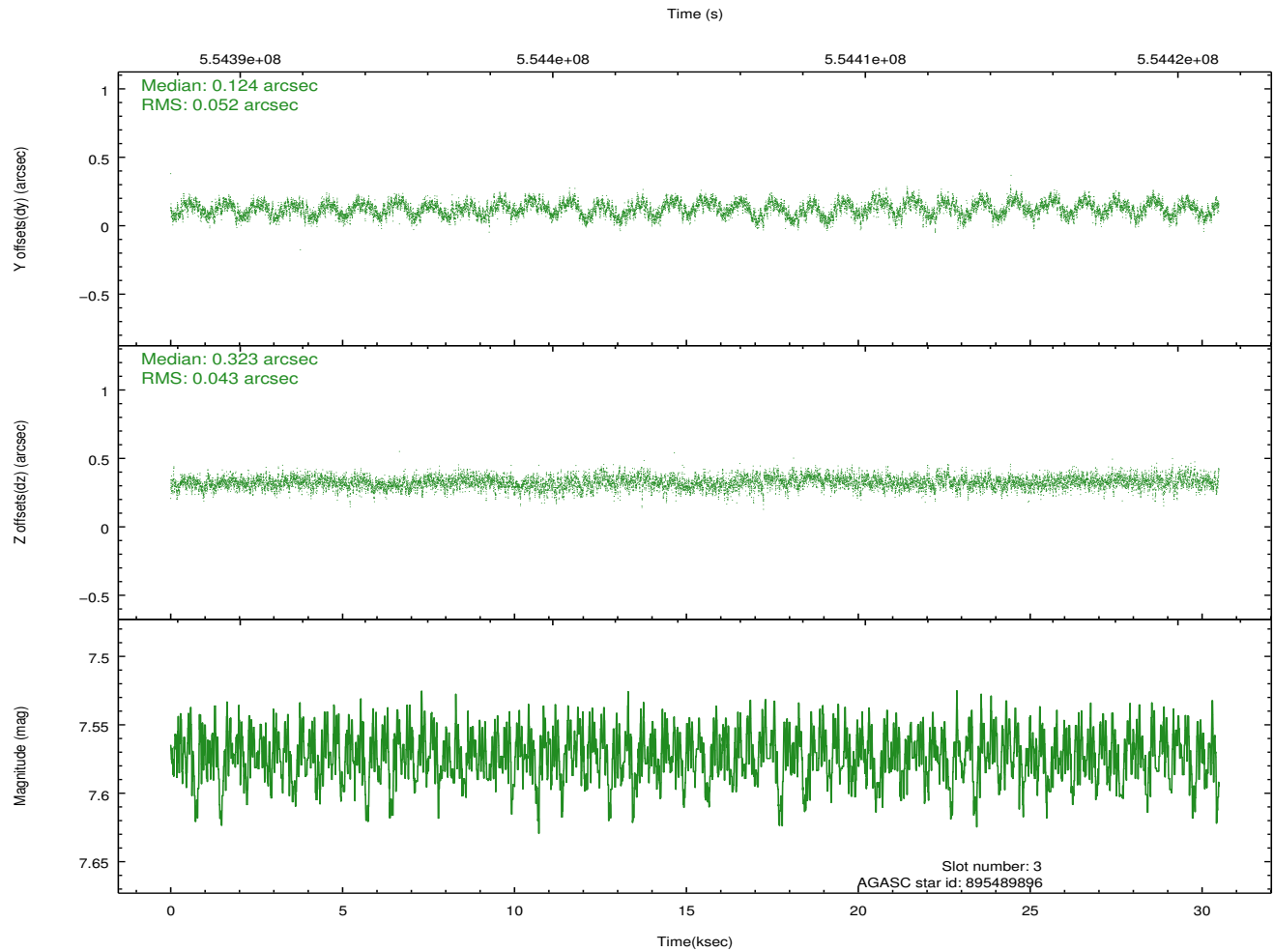
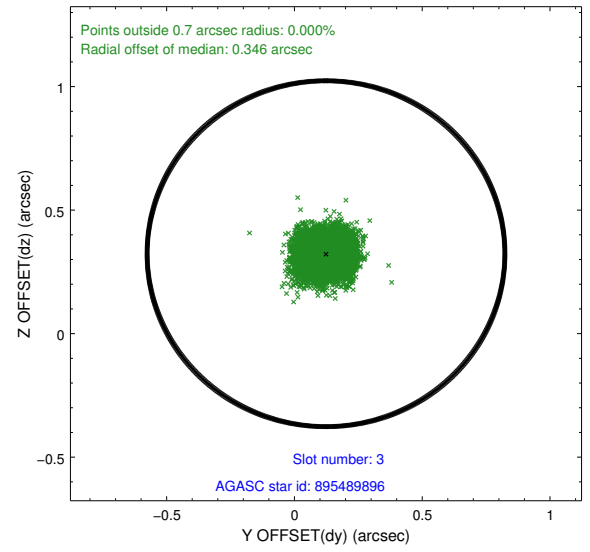
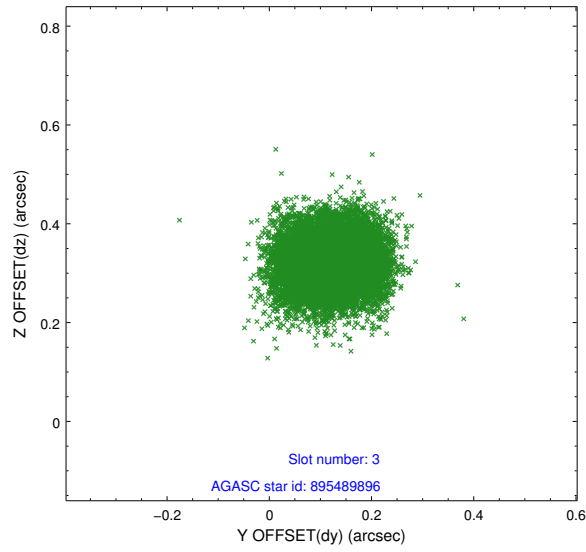


Slot Statistics

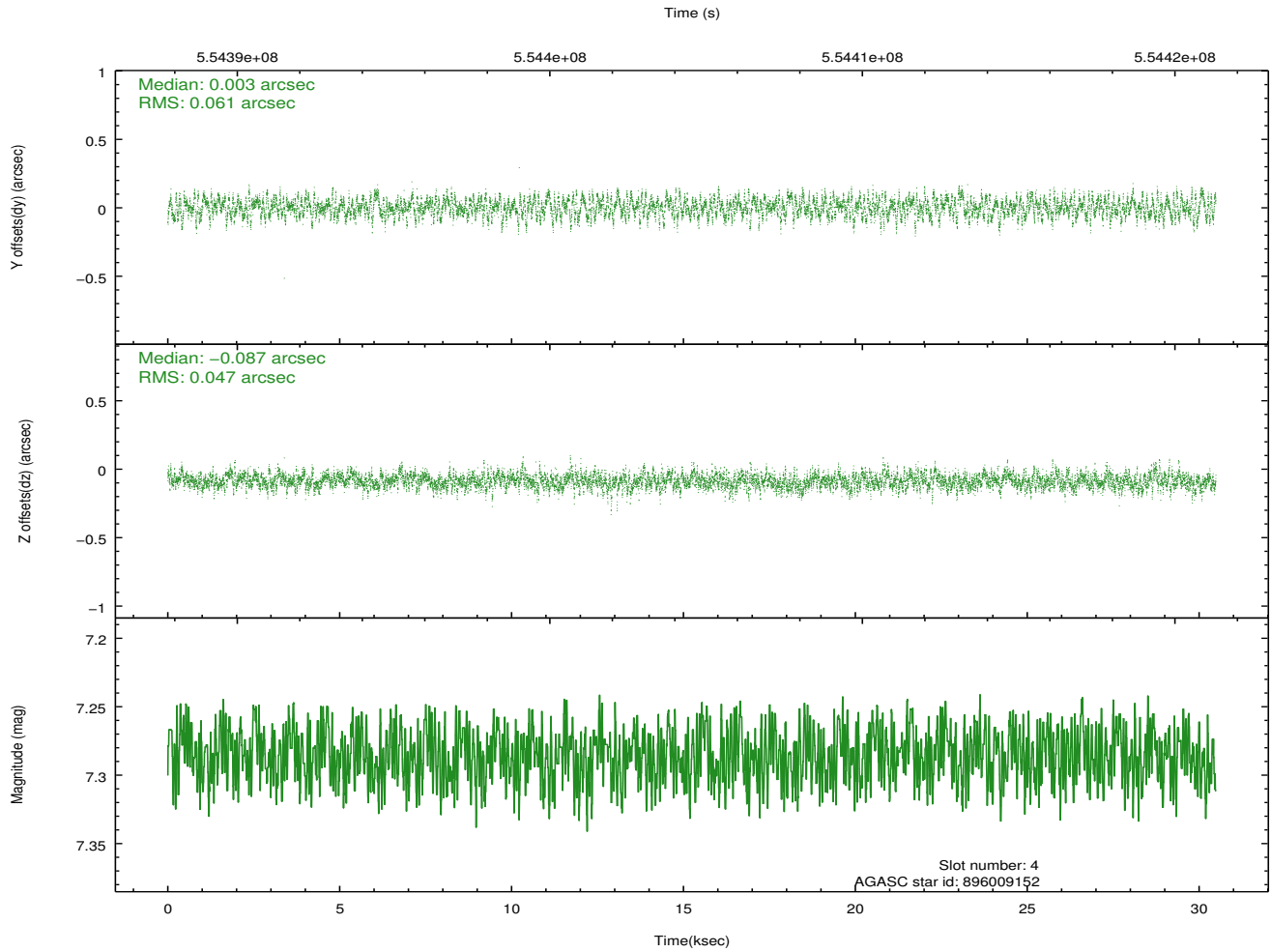
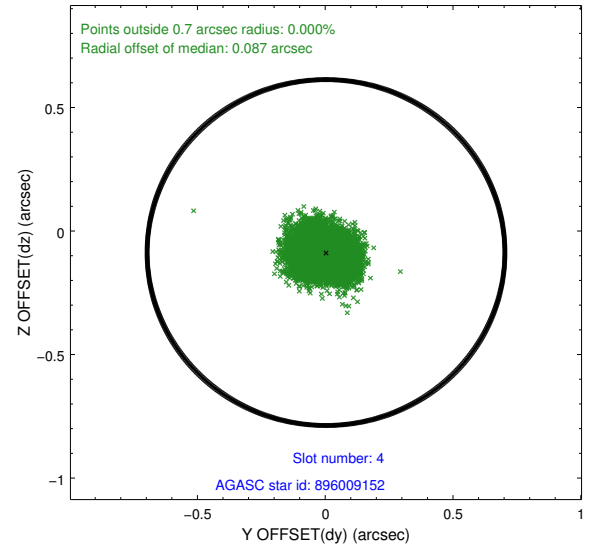
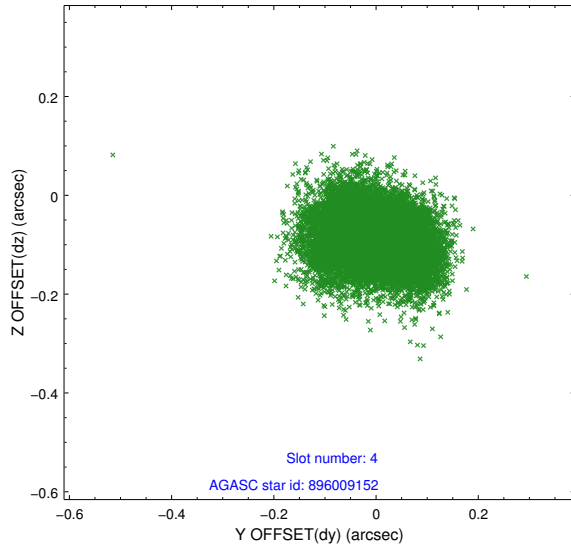
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.15	7437	0.074	-0.064	0.011	0.019	0.000000	0.000000	927.13	-1732.87
1	FID		ACIS-S-2	7.07	7437	-0.233	-0.069	0.010	0.016	0.000000	0.000000	-769.04	-1737.42
2	FID		ACIS-S-4	7.15	7436	0.133	0.139	0.009	0.015	0.000000	0.000000	2144.49	171.36
3	GUIDE	used	895489896	7.57	14871	0.124	0.323	0.073	0.115	266.605795	-26.200300	-1650.01	-2118.03
4	GUIDE	used	896009152	7.29	14872	0.003	-0.087	0.083	0.134	267.588100	-27.061669	1625.36	861.69
5	GUIDE	used	896013056	8.53	14869	0.084	0.177	0.081	0.134	266.762141	-26.954413	1087.99	-1760.34
6	GUIDE	used	897717296	8.22	14867	-0.007	-0.156	0.084	0.136	267.921819	-26.875322	1021.43	1972.09
7	GUIDE	used	897718208	7.74	14871	-0.197	-0.256	0.071	0.115	268.020133	-26.836183	900.65	2296.30

2.4 Star Slots

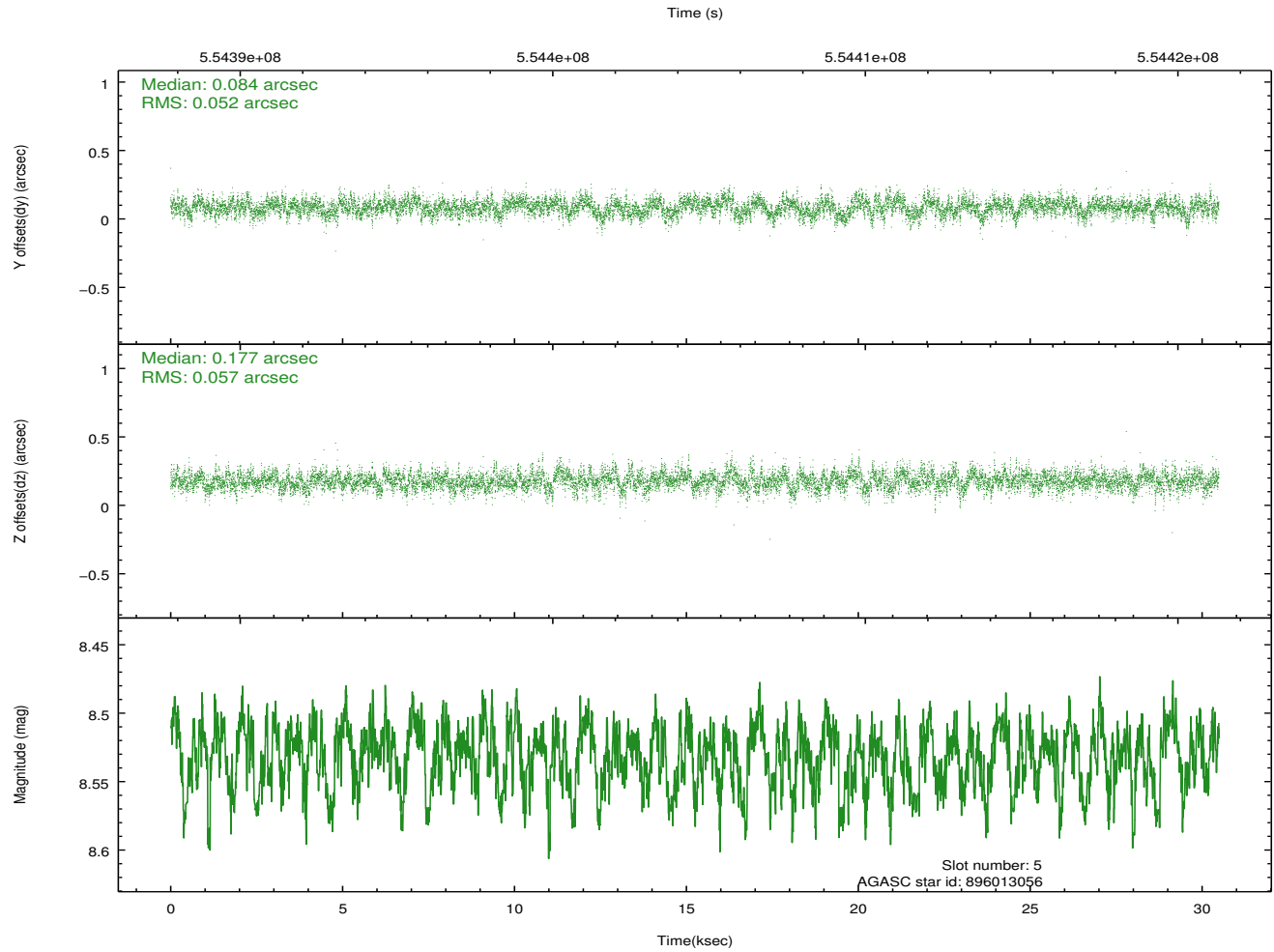
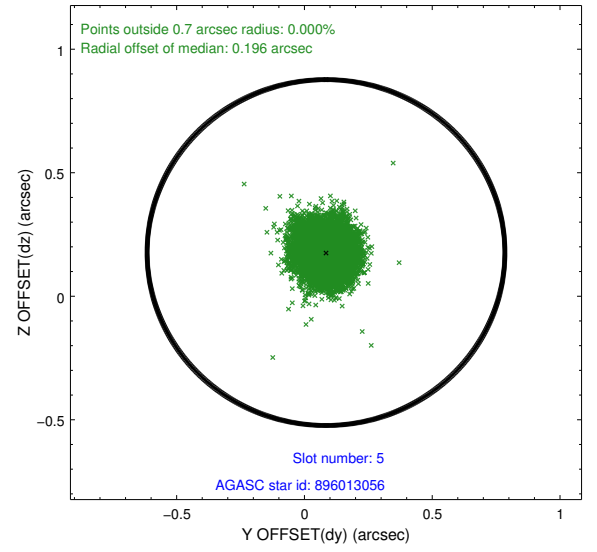
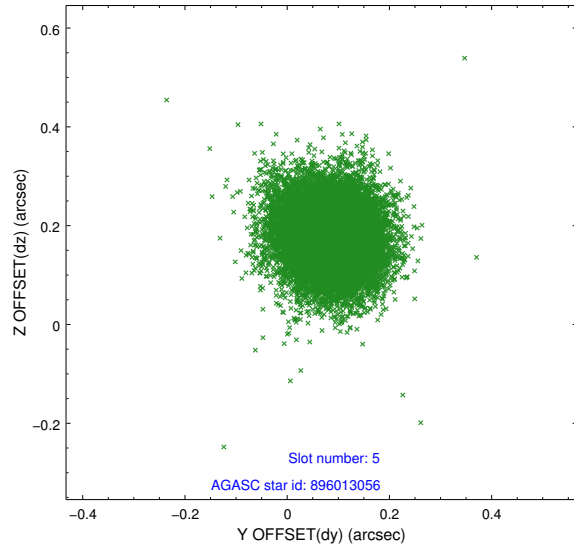
2.4.1 Slot 3



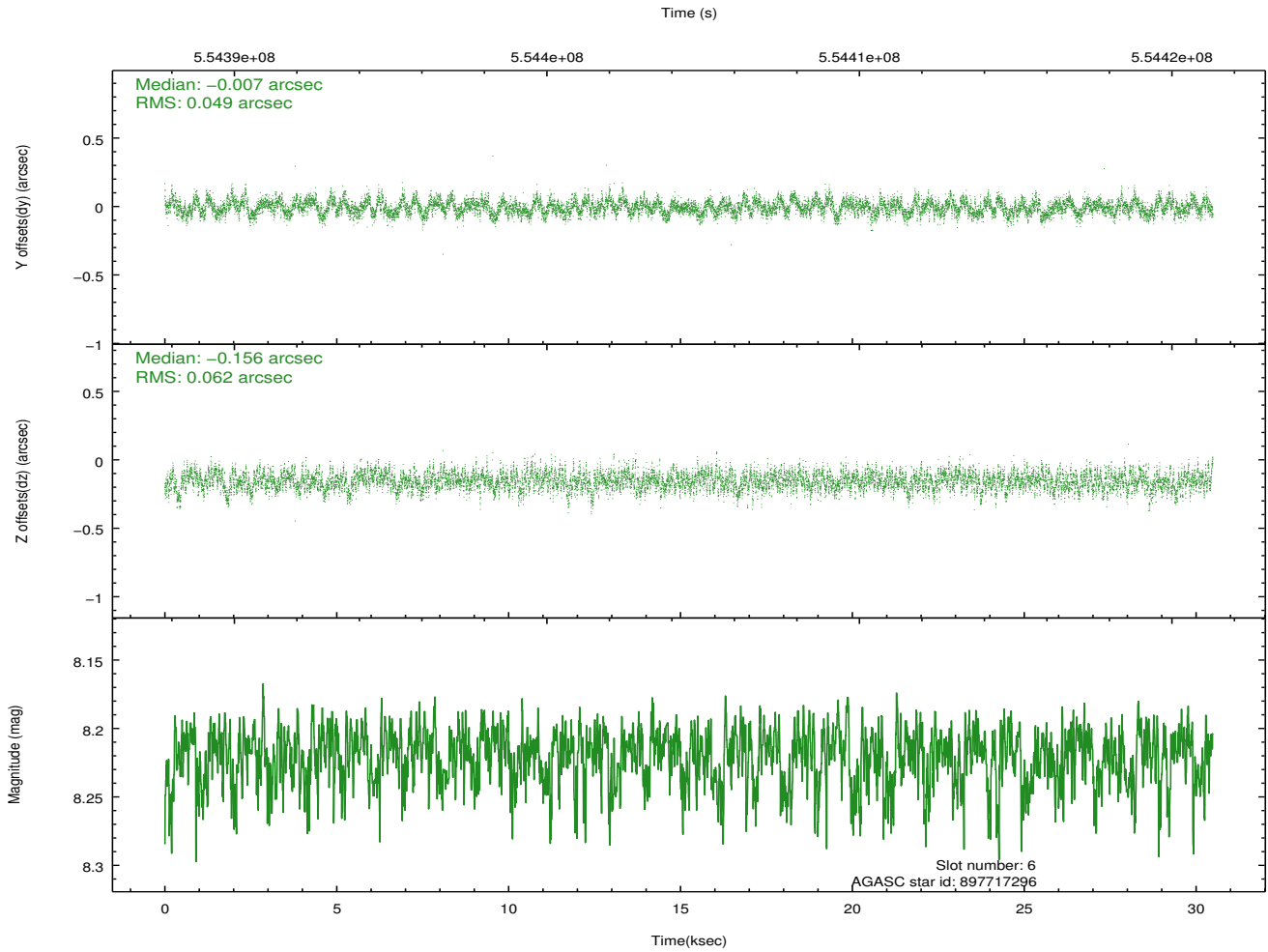
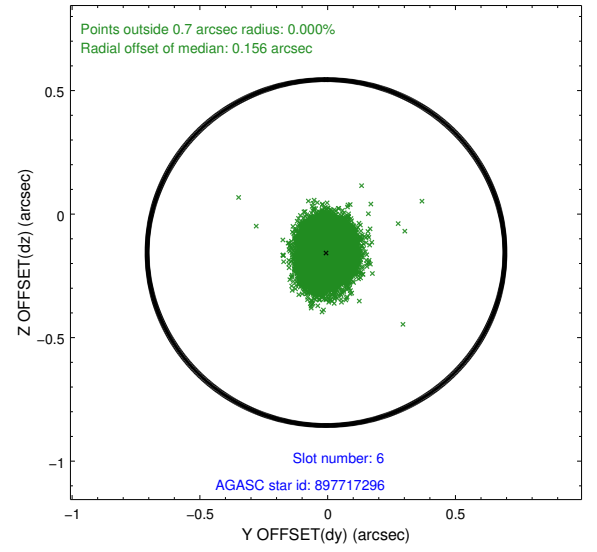
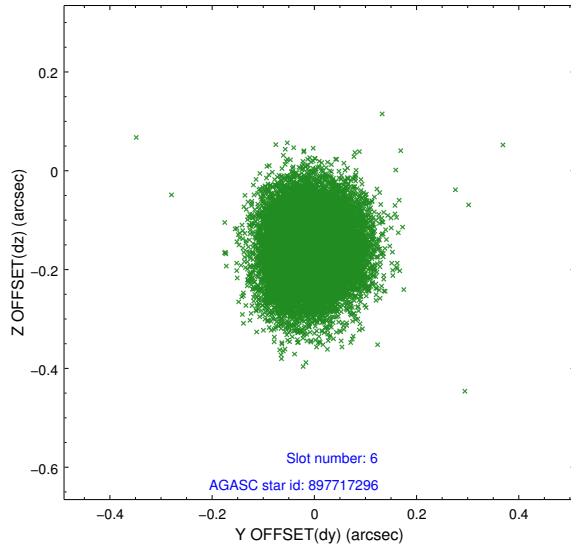
2.4.2 Slot 4



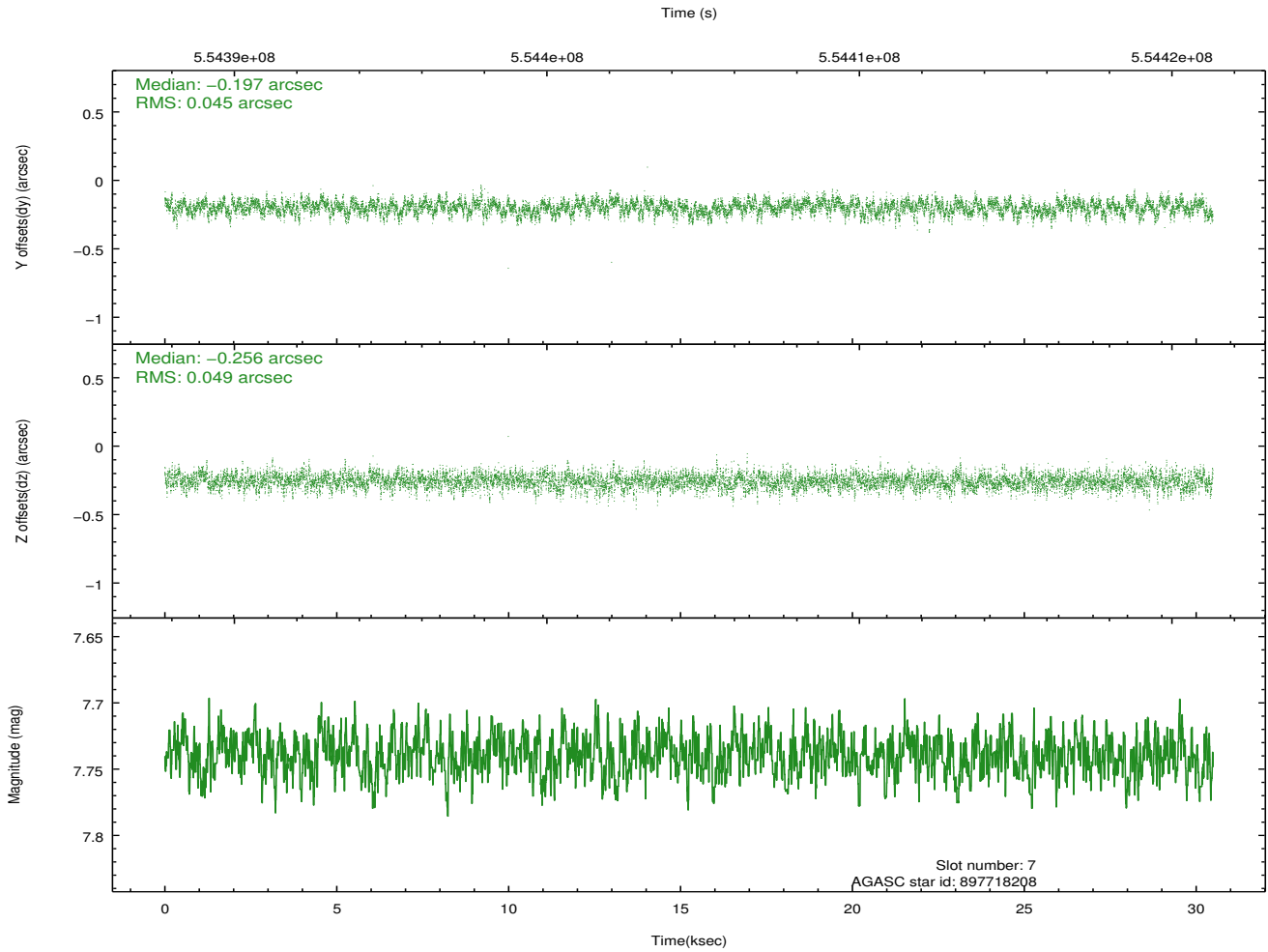
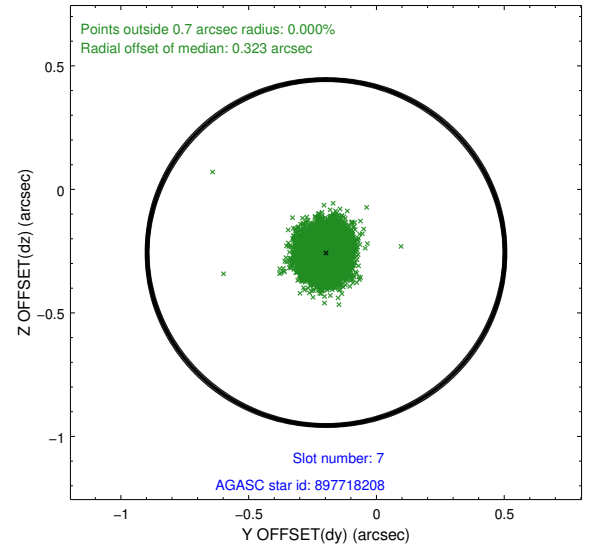
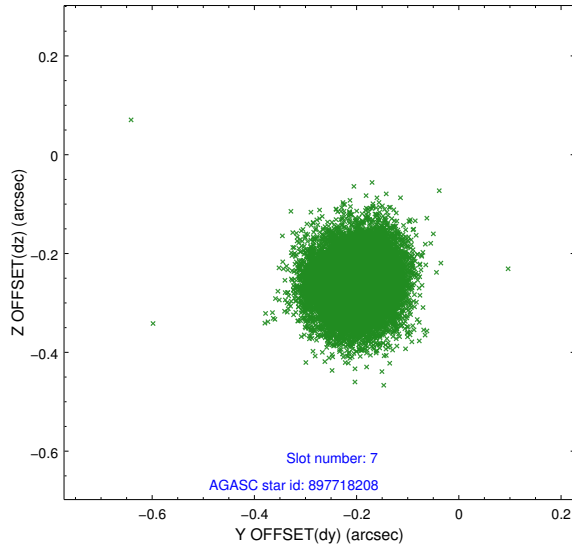
2.4.3 Slot 5



2.4.4 Slot 6

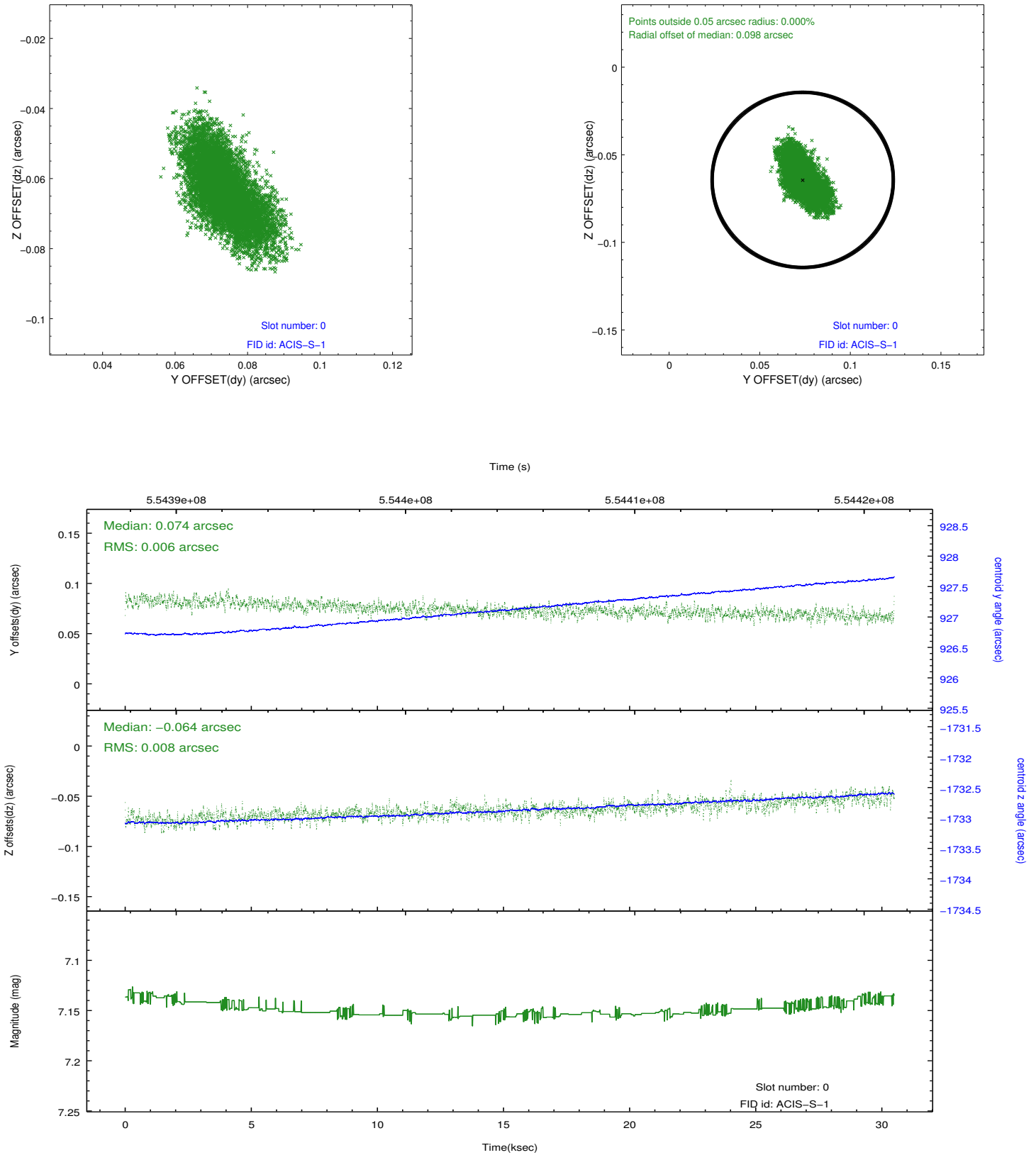


2.4.5 Slot 7

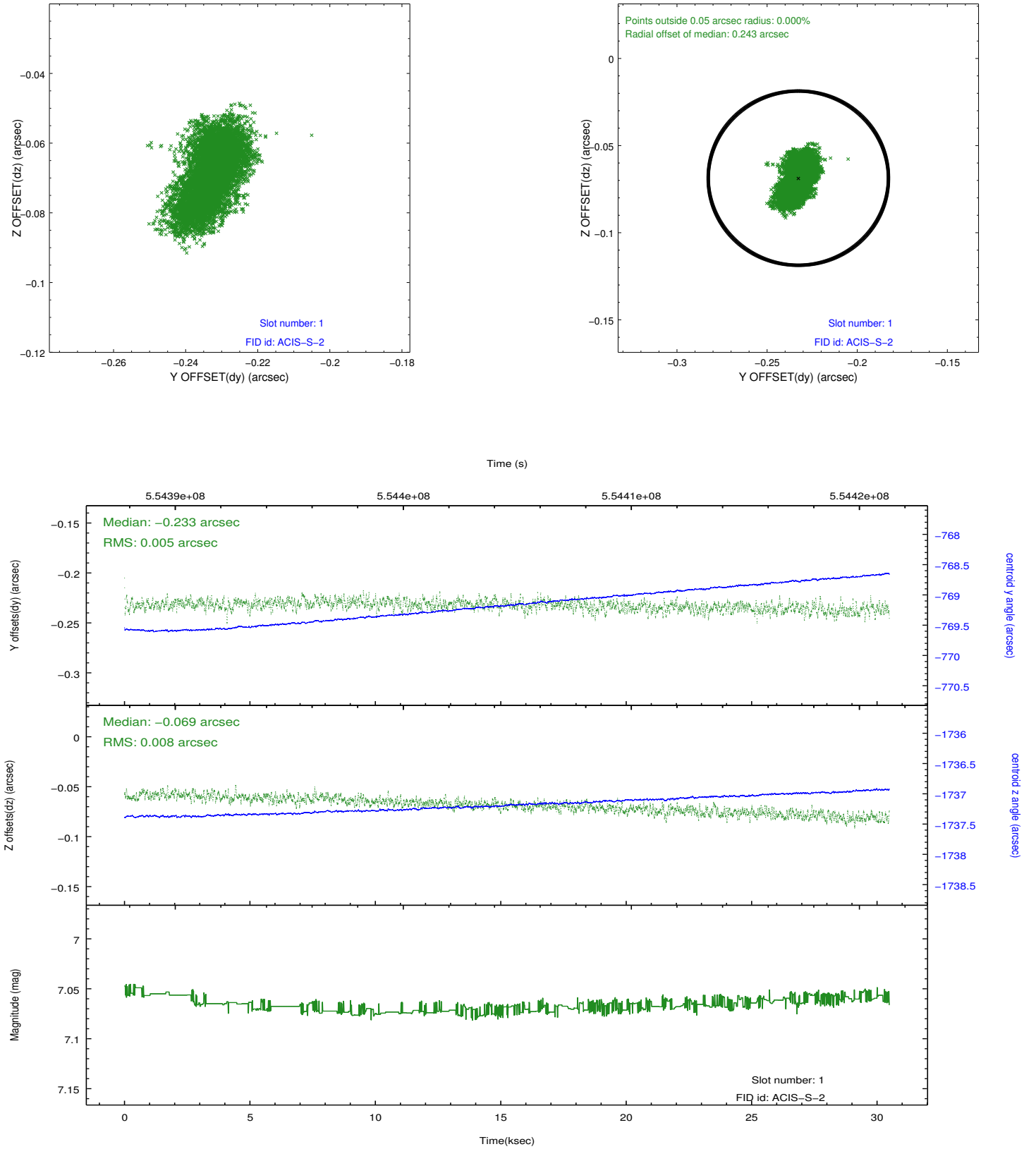


2.5 FID Slots

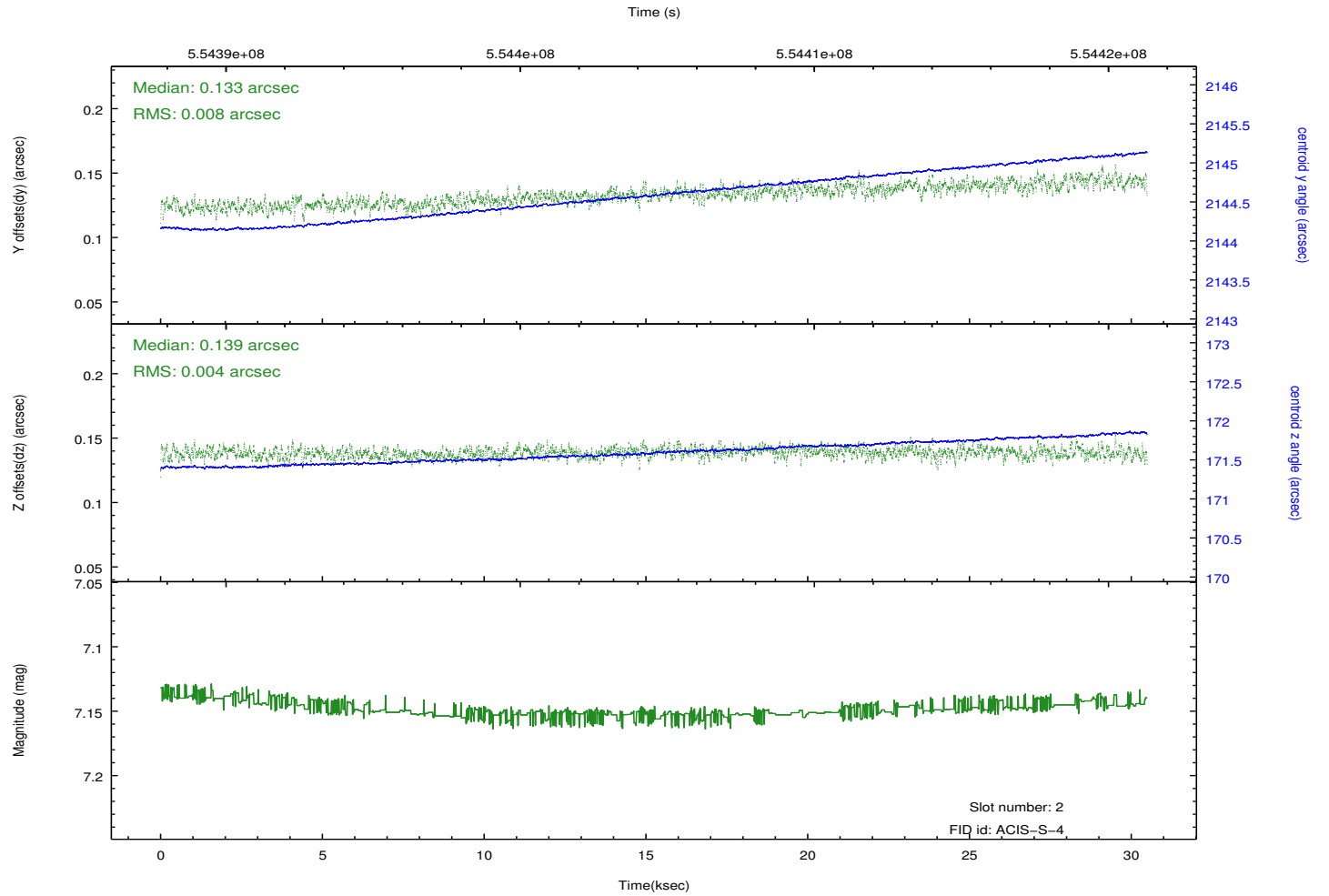
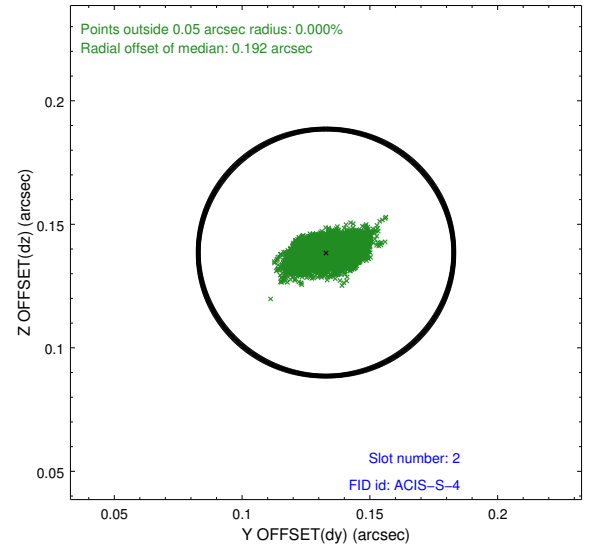
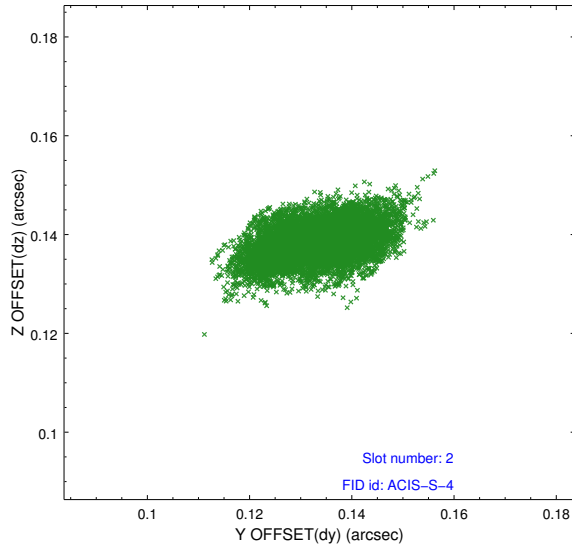
2.5.1 Slot 0



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)	2015.07.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.069432723761

A.2 Comments

Monitor constraint met.