

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20197 - L2 Version 3
Chandra X-Ray Center

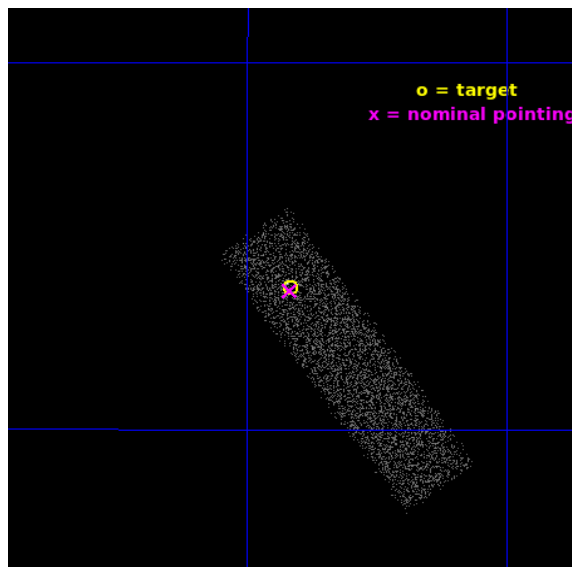
L2 Processing Date : Oct 24 2020

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1 Front

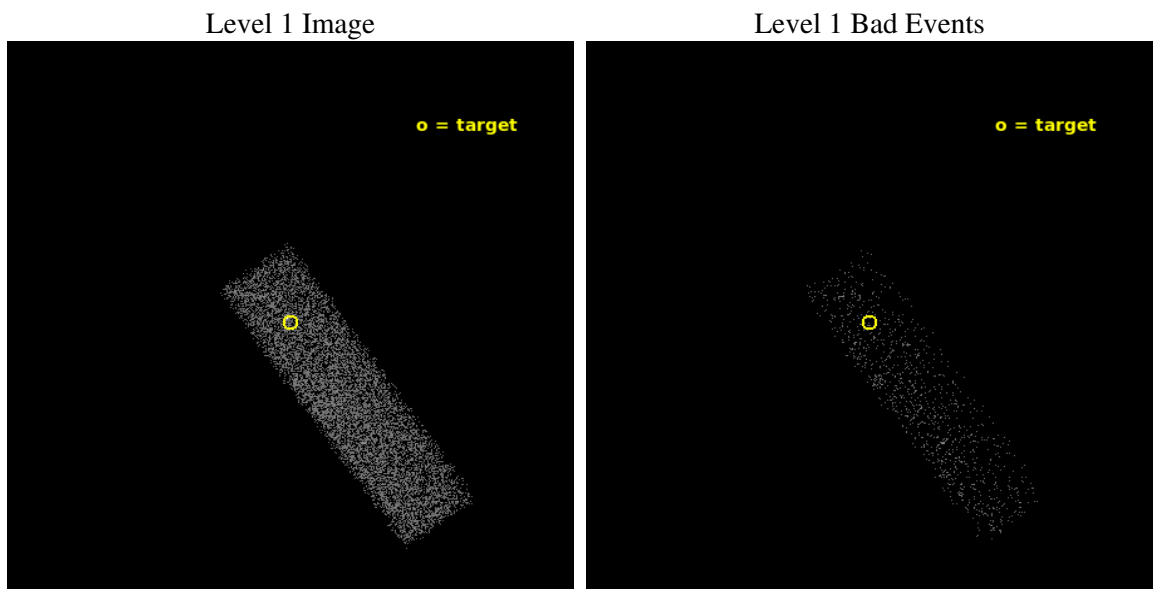
seq_num	401924	Sequence number
obs_id	20197	Observation id
title	The Nature of INTEGRAL Sources in the Galactic Plane	Proposal titl
observer	John Tomsick	Principal investigator
object	IGR J19498+2534	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	297.47875	Observer's specified target RA [deg]
dec_targ	25.564306	Observer's specified target Dec [deg]
ra_nom	297.47937429718	Nominal RA [deg]
dec_nom	25.5629123679	Nominal Dec [deg]
roll_nom	55.142621324133	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5060.7996983528	Sum of GTIs [s]
livetime	4813.8492327146	Livetime [s]
ontime7	5060.7996983528	Sum of GTIs [s]
l2events	5882	Number of level 2 events



2 OBI

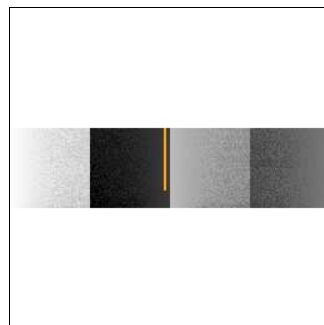
2.1 OBI

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	10.9.2	Processing system revision	ontime	5060.7996983528	Sum of GTIs [s]
caldsver	4.9.3	 	ontime7	5060.7996983528	Sum of GTIs [s]
date	2020-10-24T18:52:40	Date and time of file creation	l1events	12605	Number of level 1 events
revision	3	Processing version of data			

2.1.4 Events

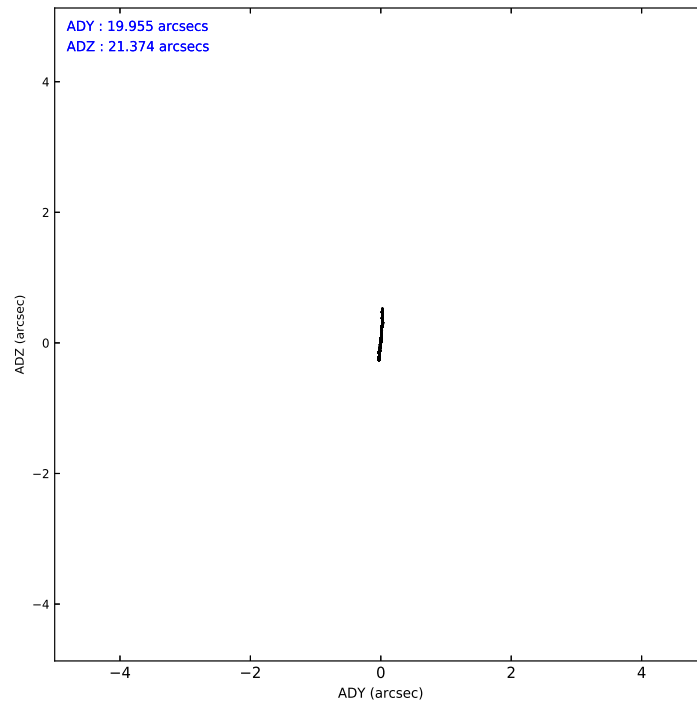
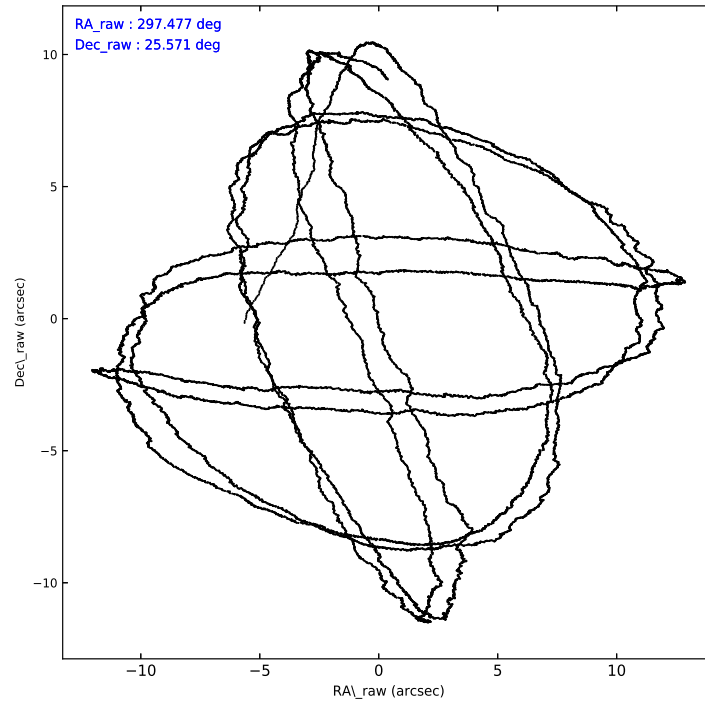
	ccd 7
level 1 events	12605
rejected events	6533
rejected %	51%

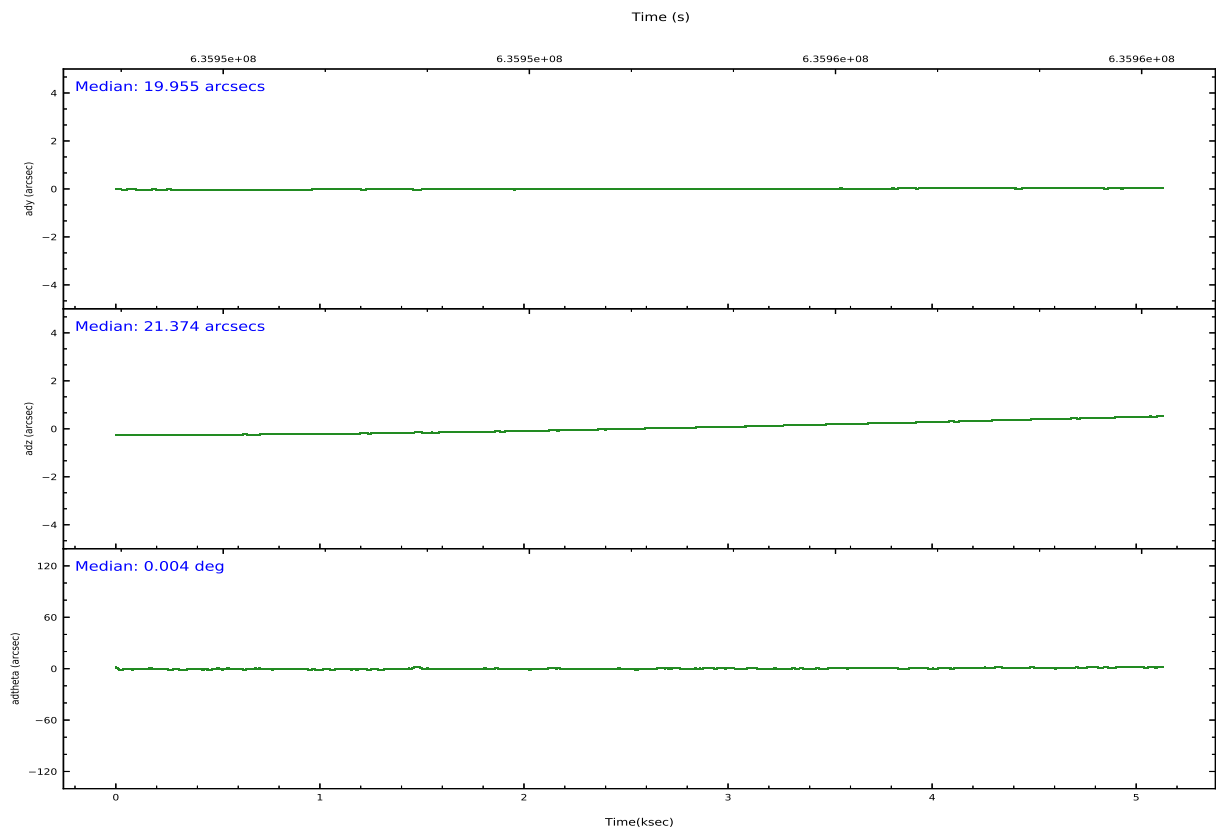
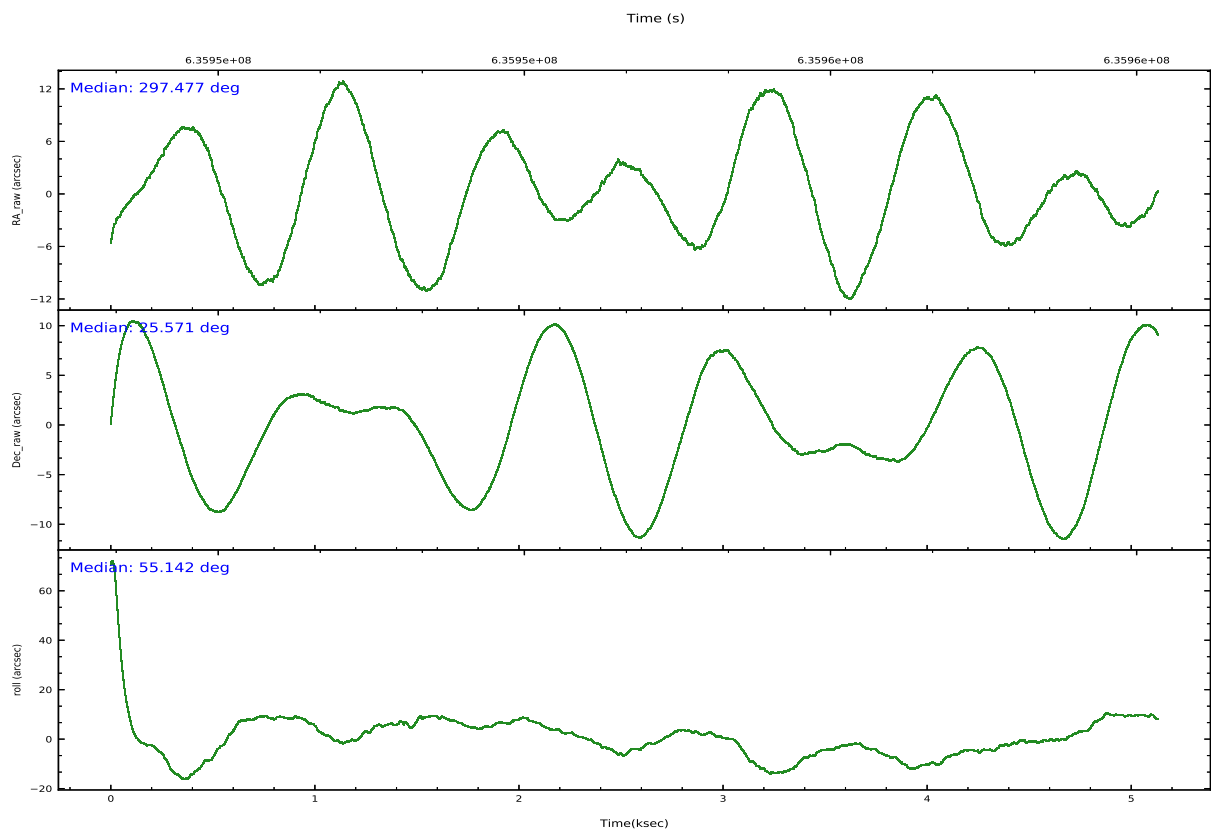
	ccd 7
grade 0 events	649
	5%
grade 1 events	13
	0%
grade 2 events	1212
	9%
grade 3 events	646
	5%
grade 4 events	689
	5%
grade 5 events	1312
	10%
grade 6 events	2878
	22%
grade 7 events	5206
	41%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
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	297.475243	297.47937429718	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	25.543682	25.5629123679	Subarray start row	385	385
[deg] Pointing Roll	55.001513	55.142621324133	Subarray row count	256	256
[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	0.8
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	635952605.184000	635951341.72209			
Observation start date	2018-02-25T13:28:56	2018-02-25T13:09:01			
[s] Observation end time (MET)	635957605.184000	635958554.13502			
Observation end date	2018-02-25T14:52:16	2018-02-25T15:09:14			
Read mode	TIMED	TIMED			

2.3 Aspect



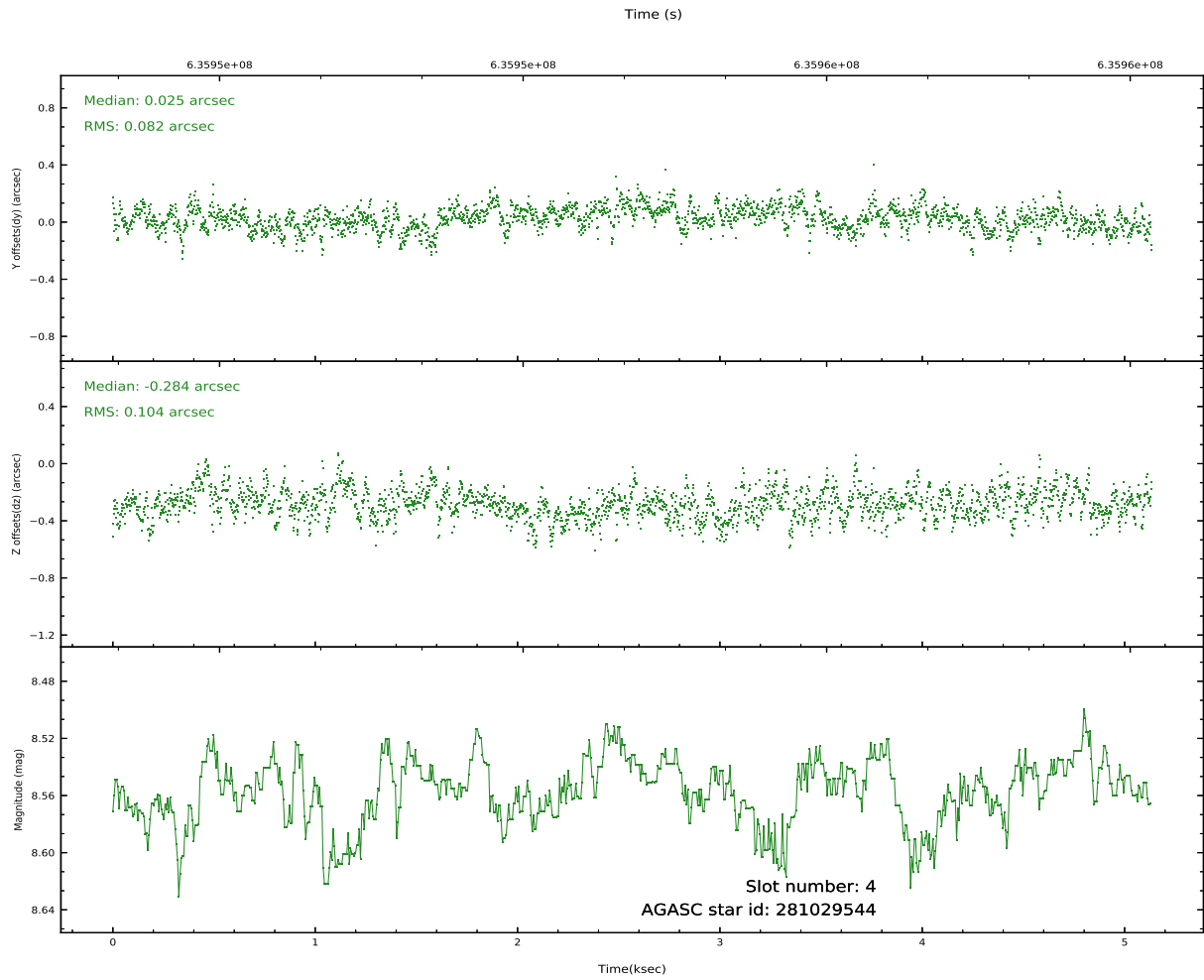
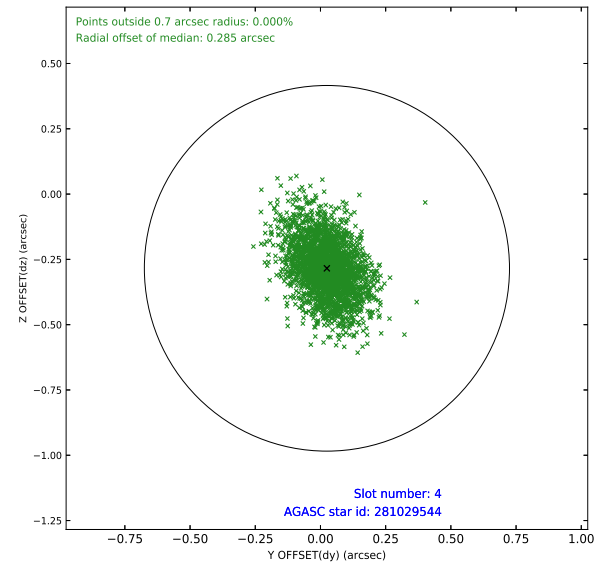
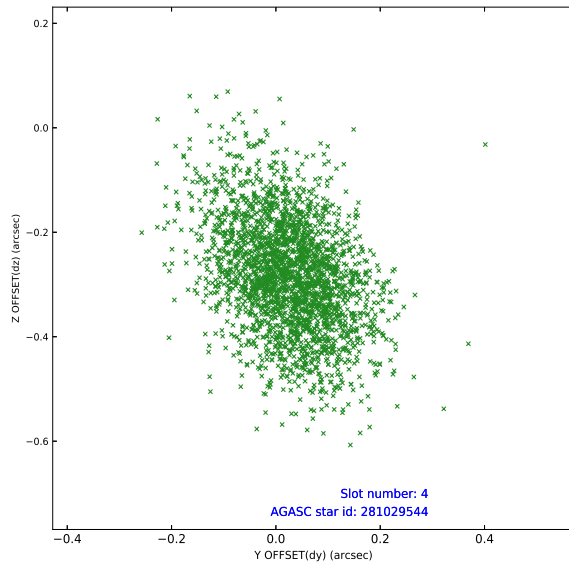


Slot Statistics

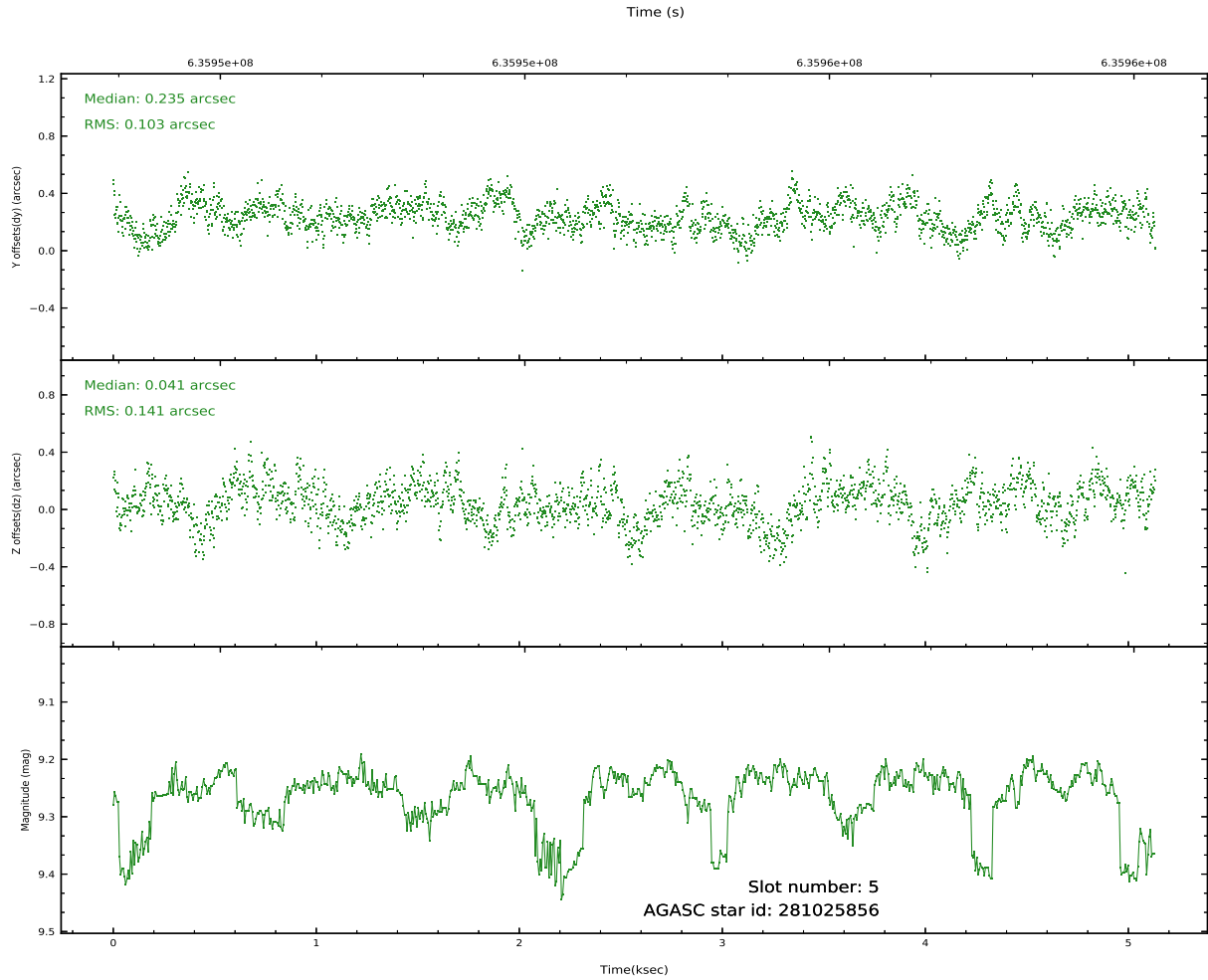
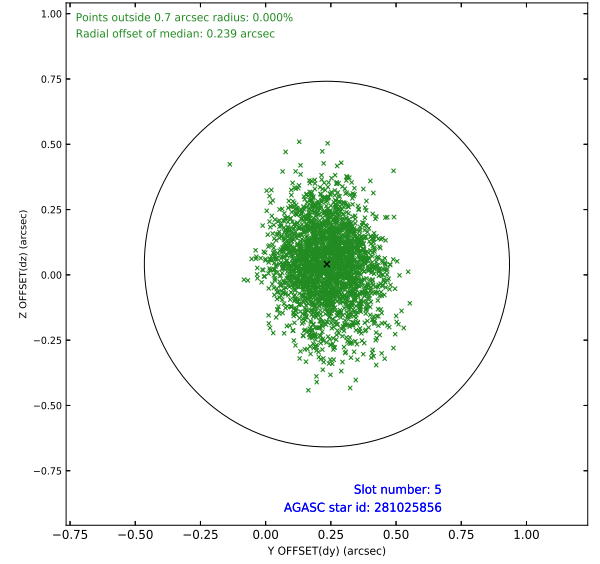
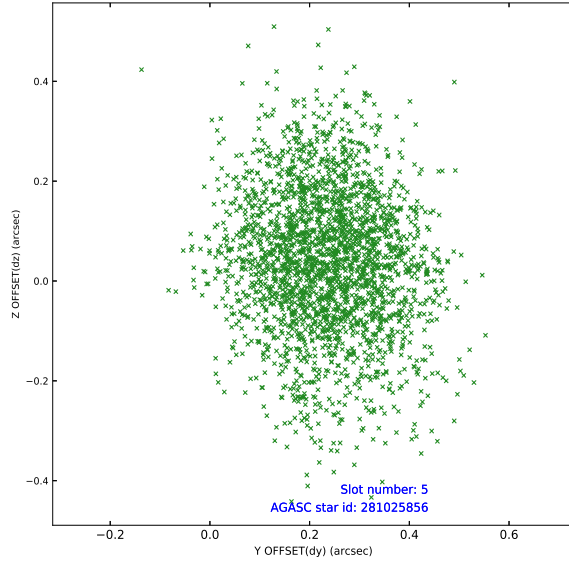
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.06	1252	1.000	0.109	-0.116	0.013	0.020	0.000000	0.000000	-773.21	-1742
1	FID		ACIS-S-4	7.18	1252	1.000	0.092	-0.021	0.007	0.012	0.000000	0.000000	2139.78	163
2	FID		ACIS-S-5	7.17	1252	1.000	-0.233	0.146	0.012	0.019	0.000000	0.000000	-1824.61	159
3	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0
4	GUIDE	used	281029544	8.56	2504	1.000	0.025	-0.284	0.139	0.238	297.343203	25.505856	-357.86	273
5	GUIDE	used	281025856	9.25	2500	1.000	0.235	0.041	0.185	0.311	297.710675	25.302466	-271.04	-1125
6	GUIDE	used	280902984	6.61	2505	1.000	-0.343	0.113	0.126	0.209	297.089958	25.009557	-2295.06	-72
7	GUIDE	used	281022000	9.13	2503	1.000	0.089	0.127	0.170	0.276	297.609561	24.926566	-1568.77	-1633

2.4 Star Slots

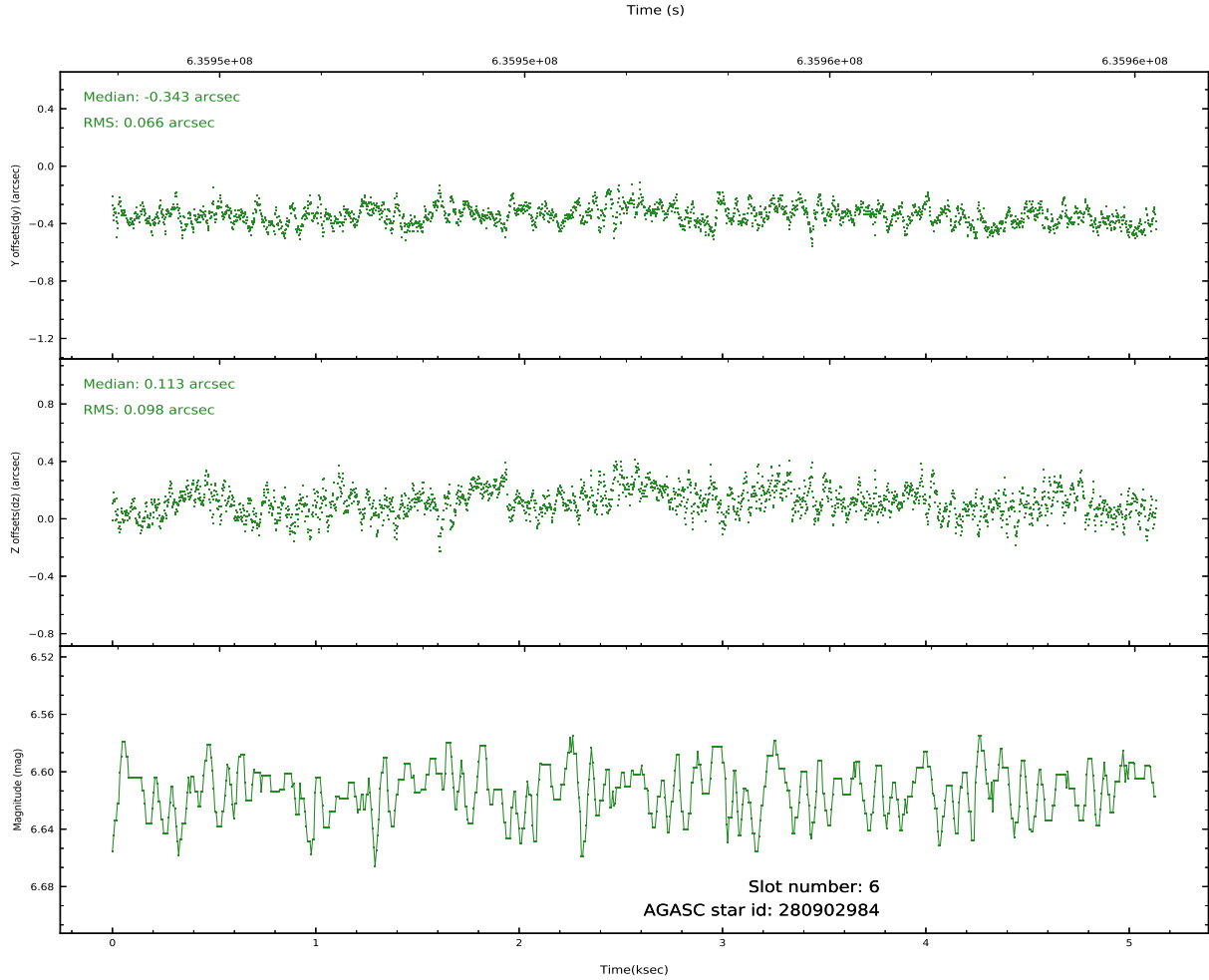
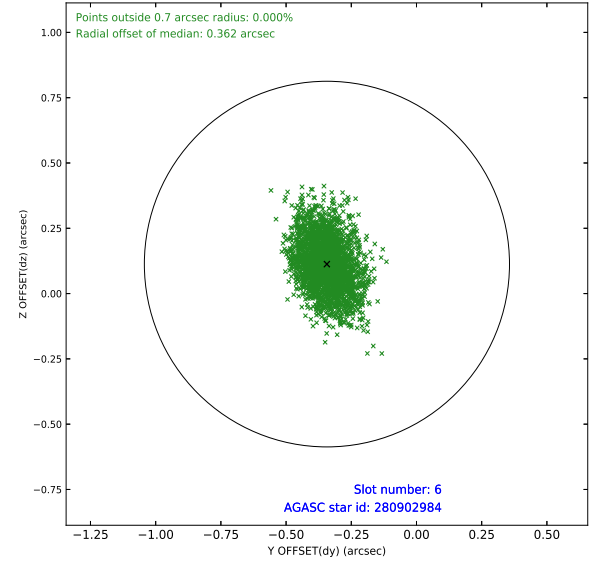
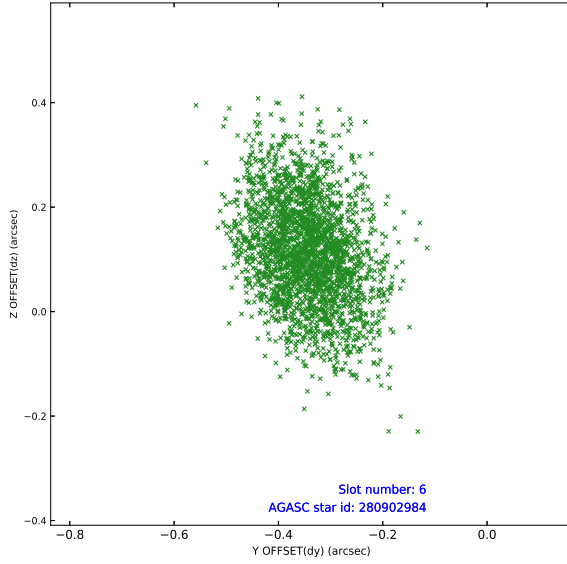
2.4.1 Slot 4



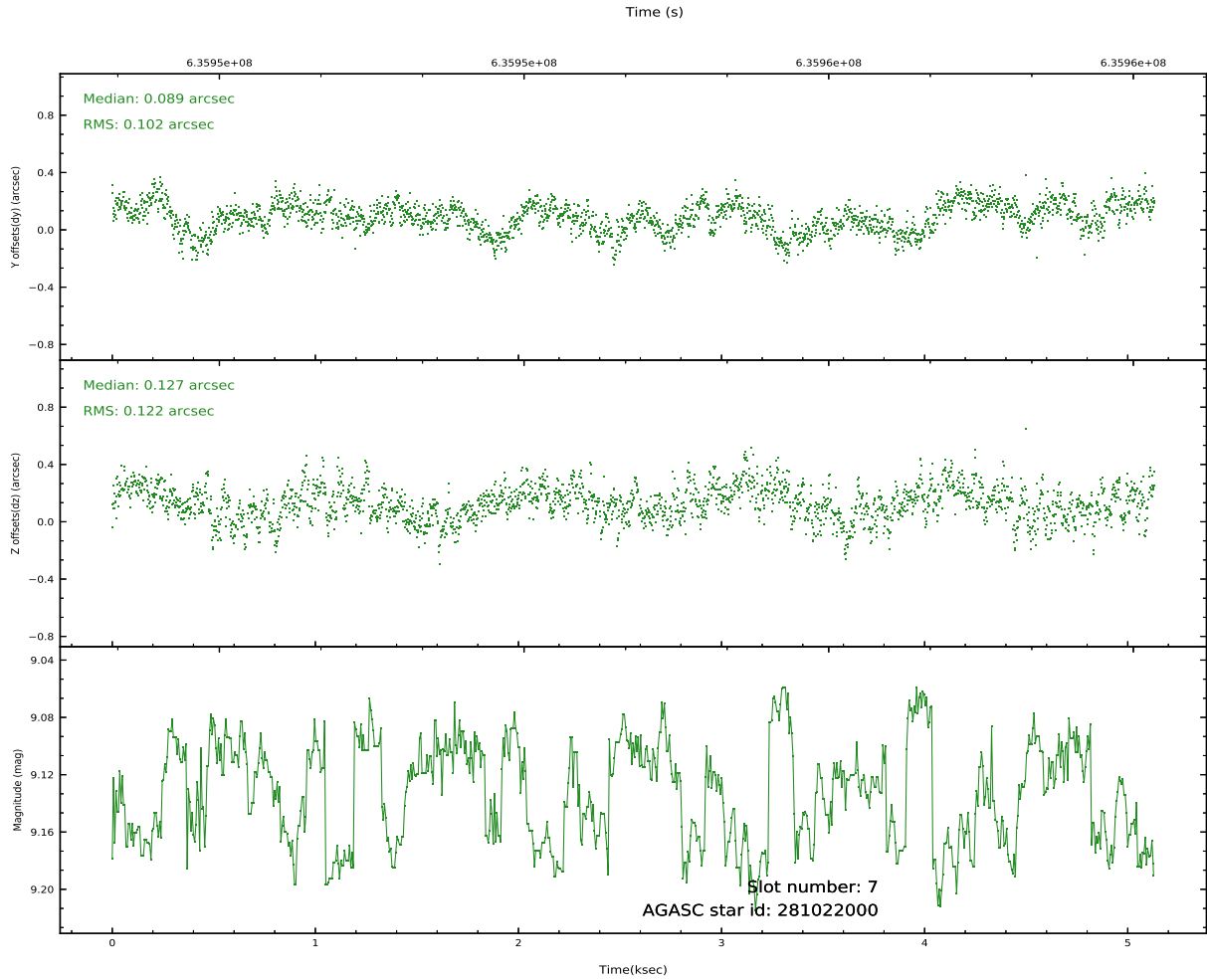
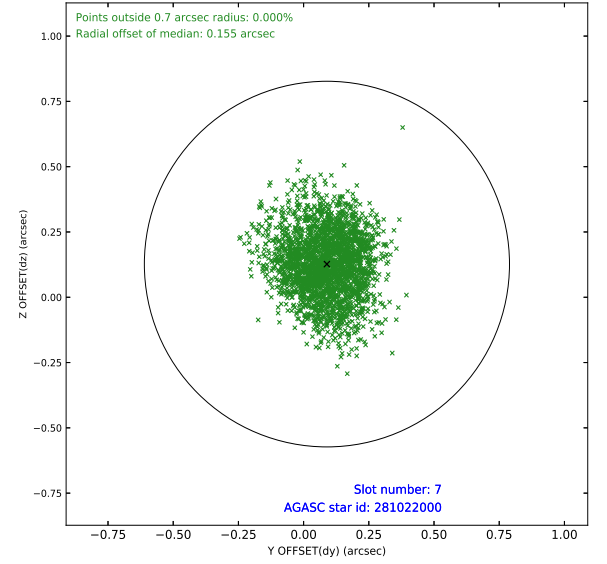
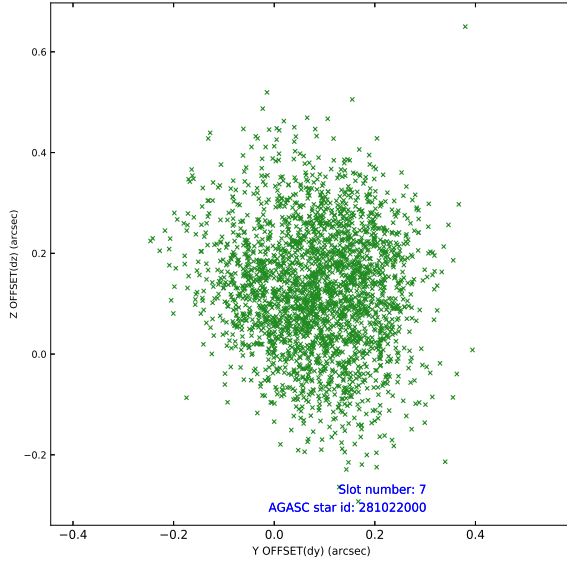
2.4.2 Slot 5



2.4.3 Slot 6

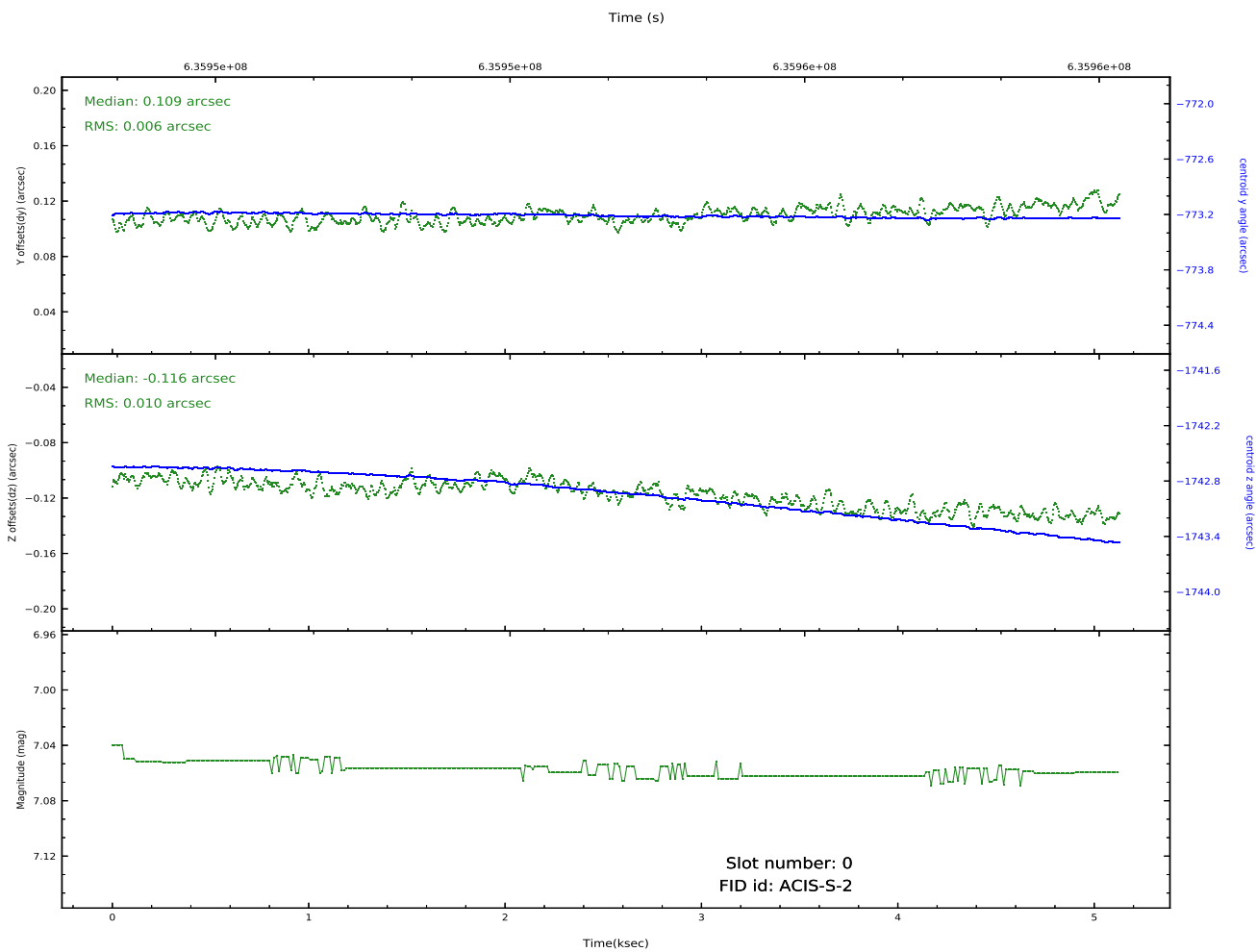
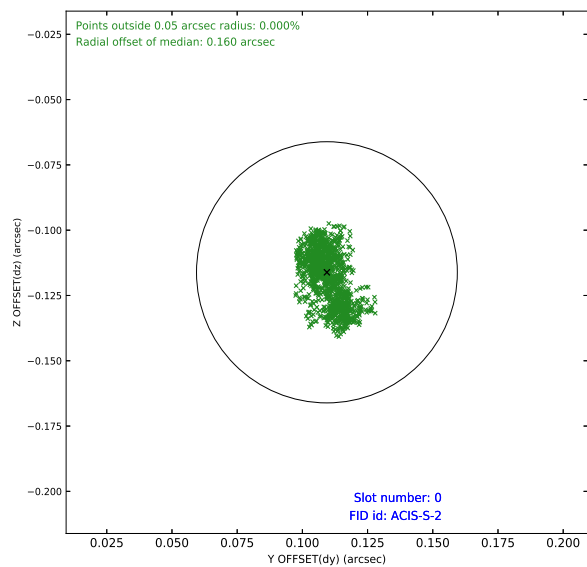
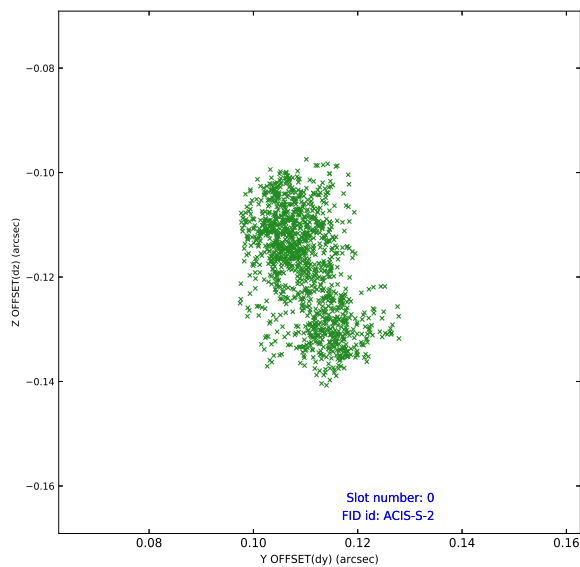


2.4.4 Slot 7

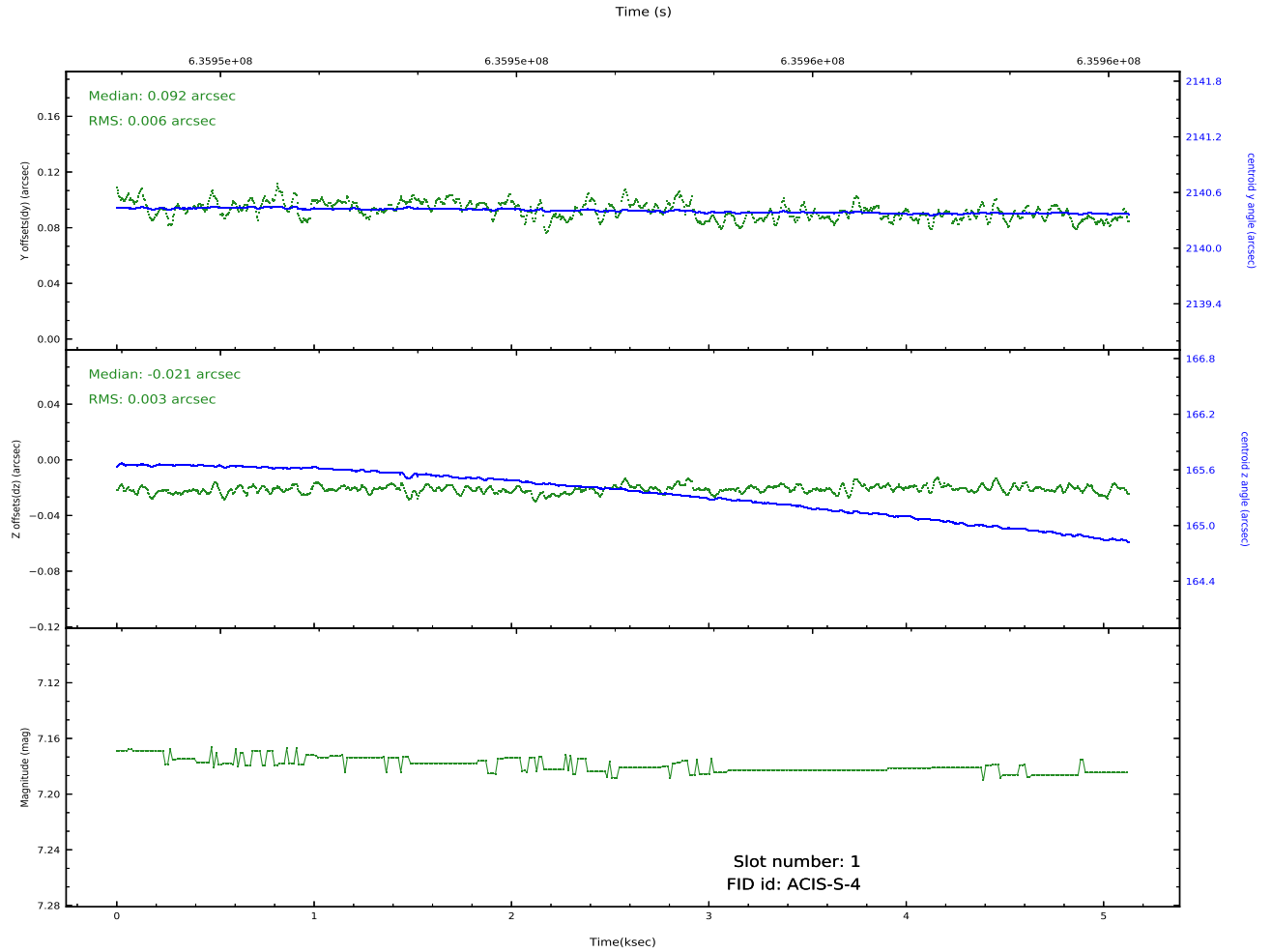
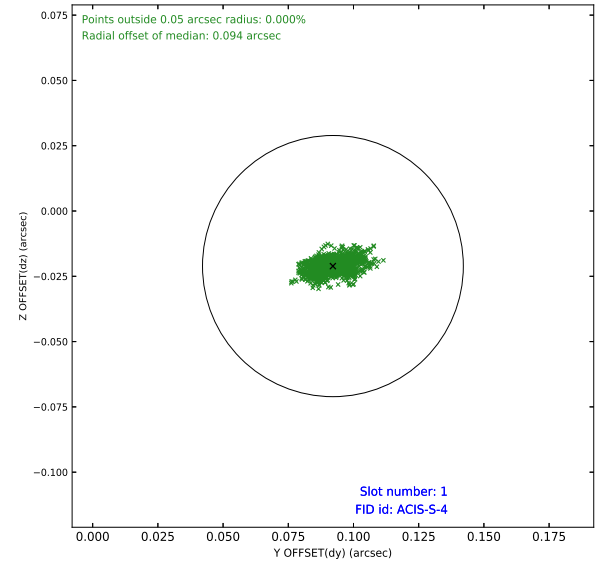
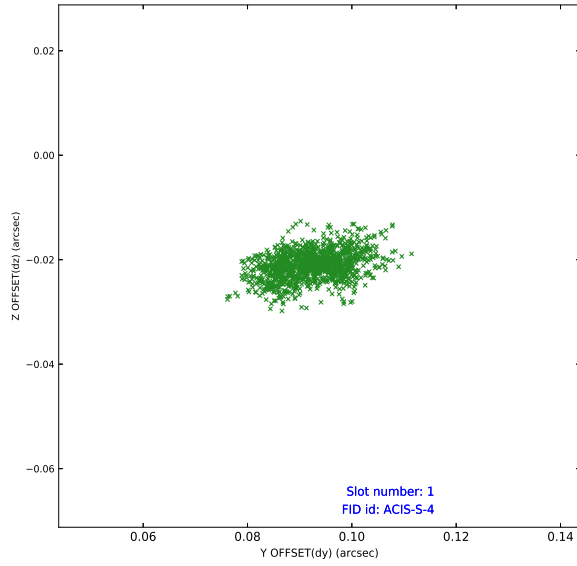


2.5 FID Slots

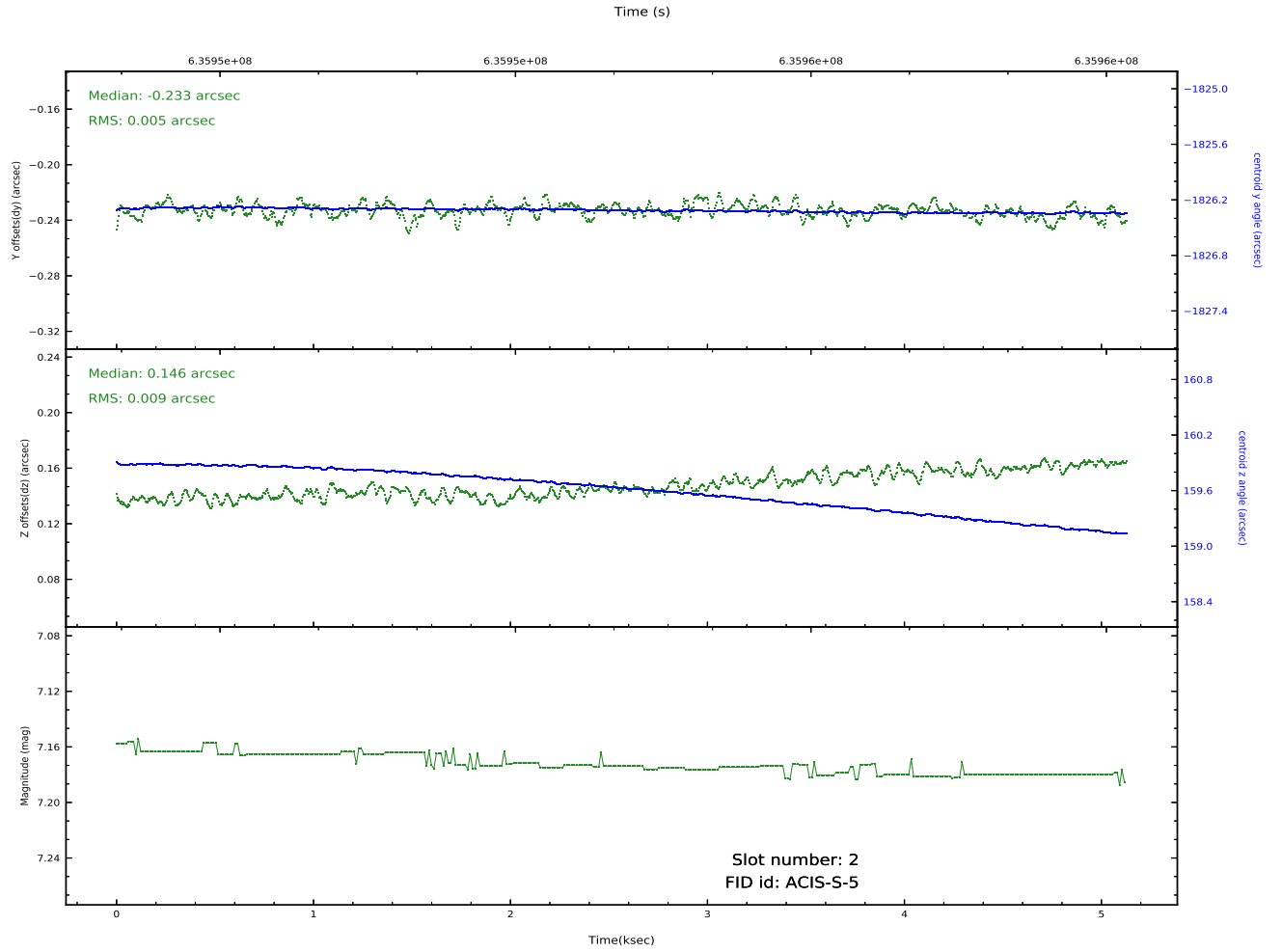
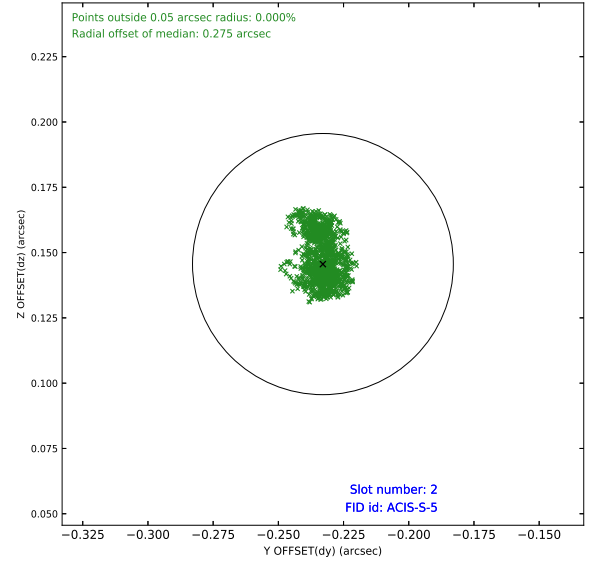
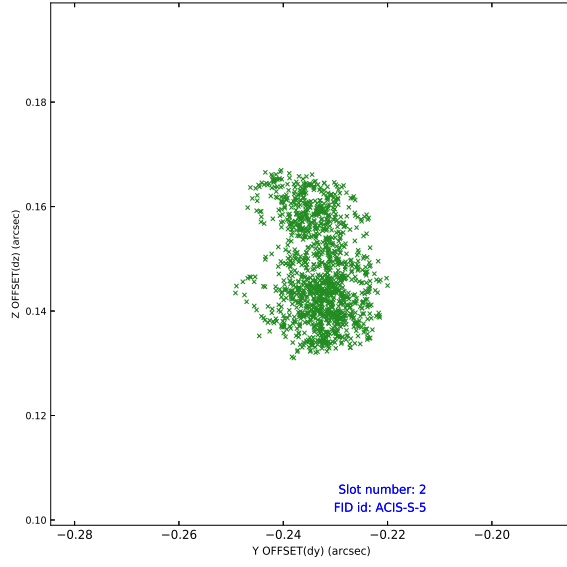
2.5.1 Slot 0



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)	2020.10.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0607996983528

A.2 Comments

The guide star in slot 3 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this slot from the solution.