

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 21003 - L2 Version 2
Chandra X-Ray Center

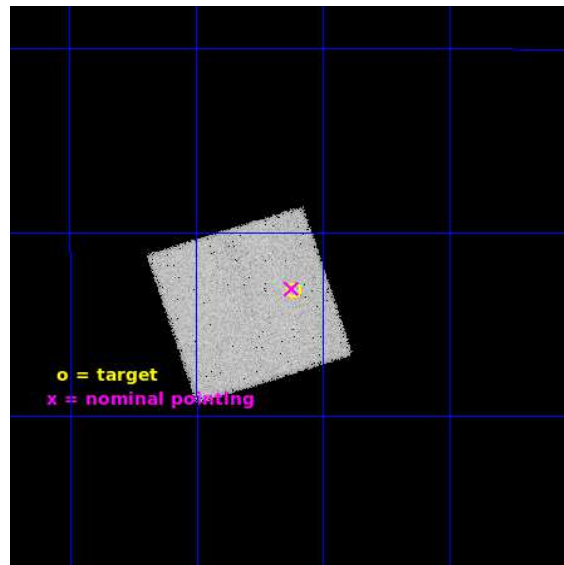
L2 Processing Date : Oct 27 2020

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1 Front

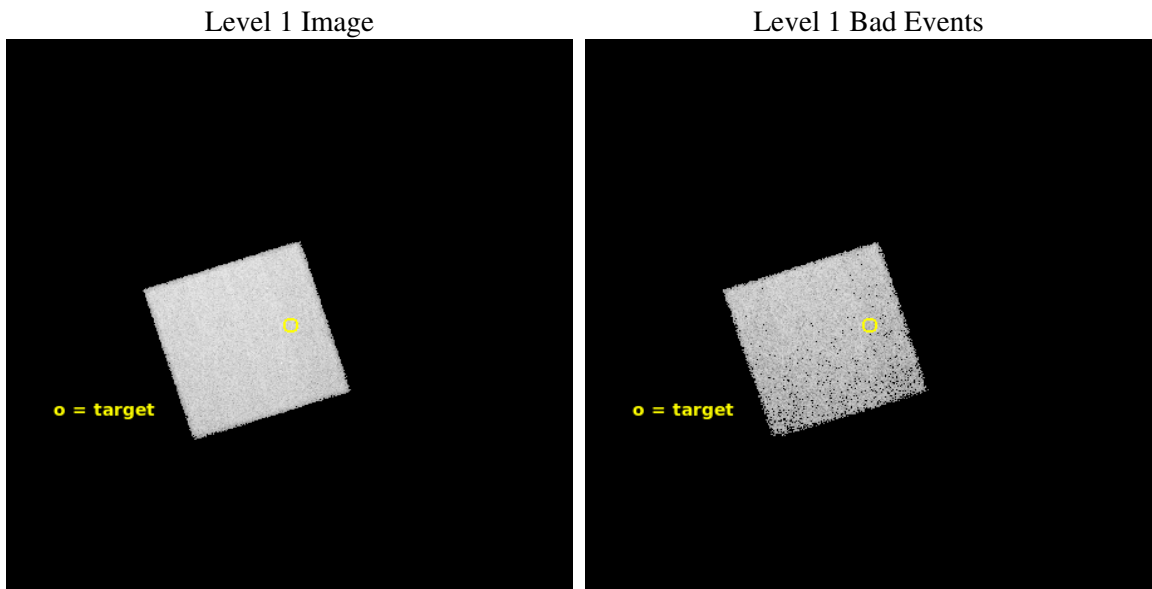
seq_num	503049	Sequence number
obs_id	21003	Observation id
title	Zeroing in on the Mass Loss Properties of Core Collapse Supernova Progenitors	Proposal title
observer	Daniel Patnaude	Principal investigator
object	SN2013ak	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	121.779167	Observer's specified target RA [deg]
dec_targ	-28.052778	Observer's specified target Dec [deg]
ra_nom	121.78069557992	Nominal RA [deg]
dec_nom	-28.051147607445	Nominal Dec [deg]
roll_nom	161.97845603131	Nominal Roll [deg]
revision	2	Processing version of data
ontime	22092.0	Sum of GTIs [s]
liveltime	21793.859995265	Livetime [s]
ontime7	22092.0	Sum of GTIs [s]
l2events	90497	Number of level 2 events



2 OBI

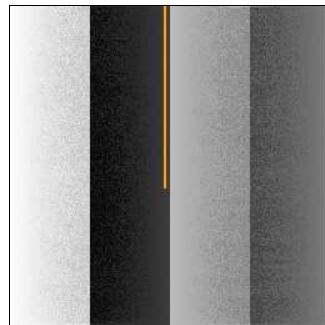
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	22000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	22092.0	Sum of GTIs [s]
caldbver	4.9.3	 	ontime7	22092.0	Sum of GTIs [s]
date	2020-10-27T05:44:52	Date and time of file creation	l1events	209454	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

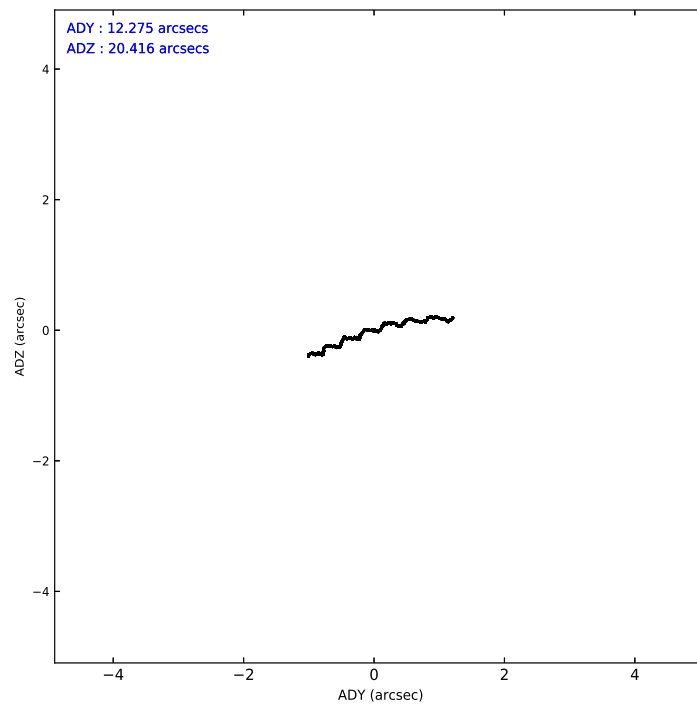
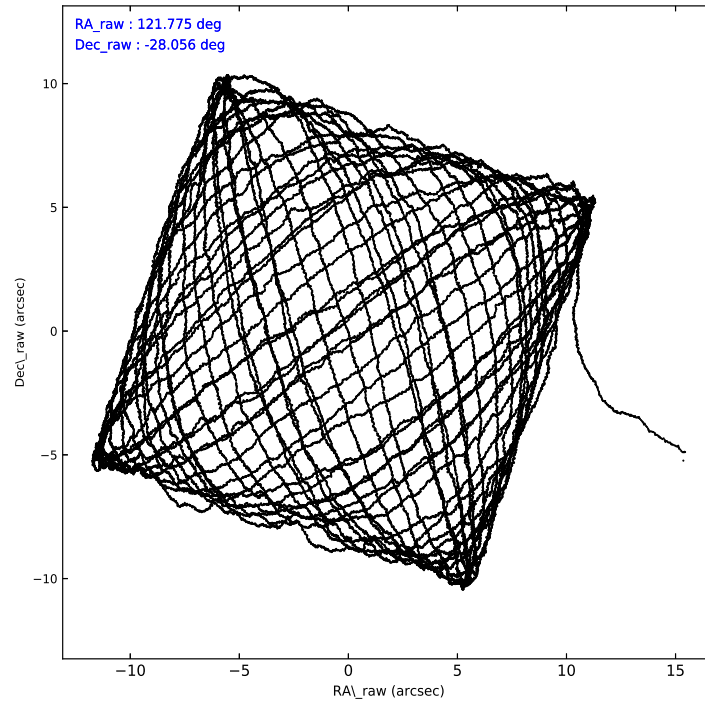
	ccd 7
level 1 events	209454
rejected events	116132
rejected %	55%

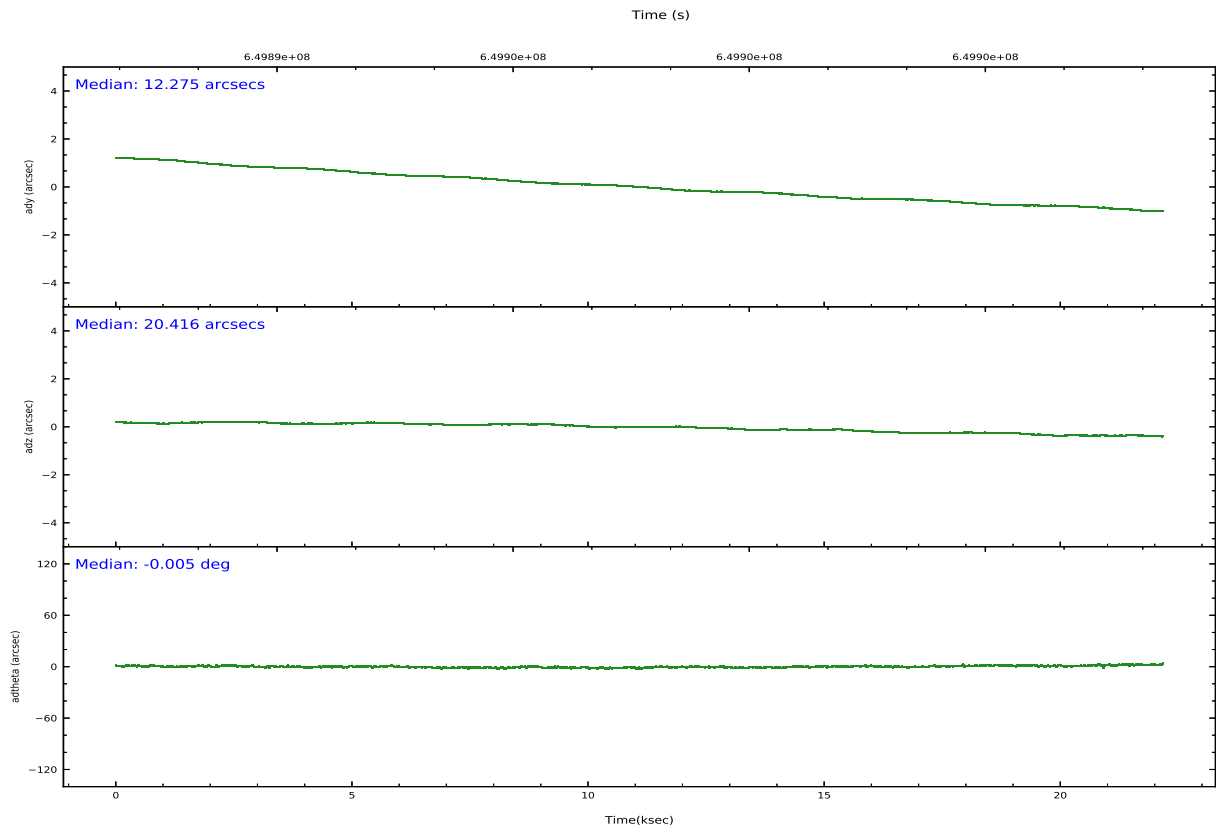
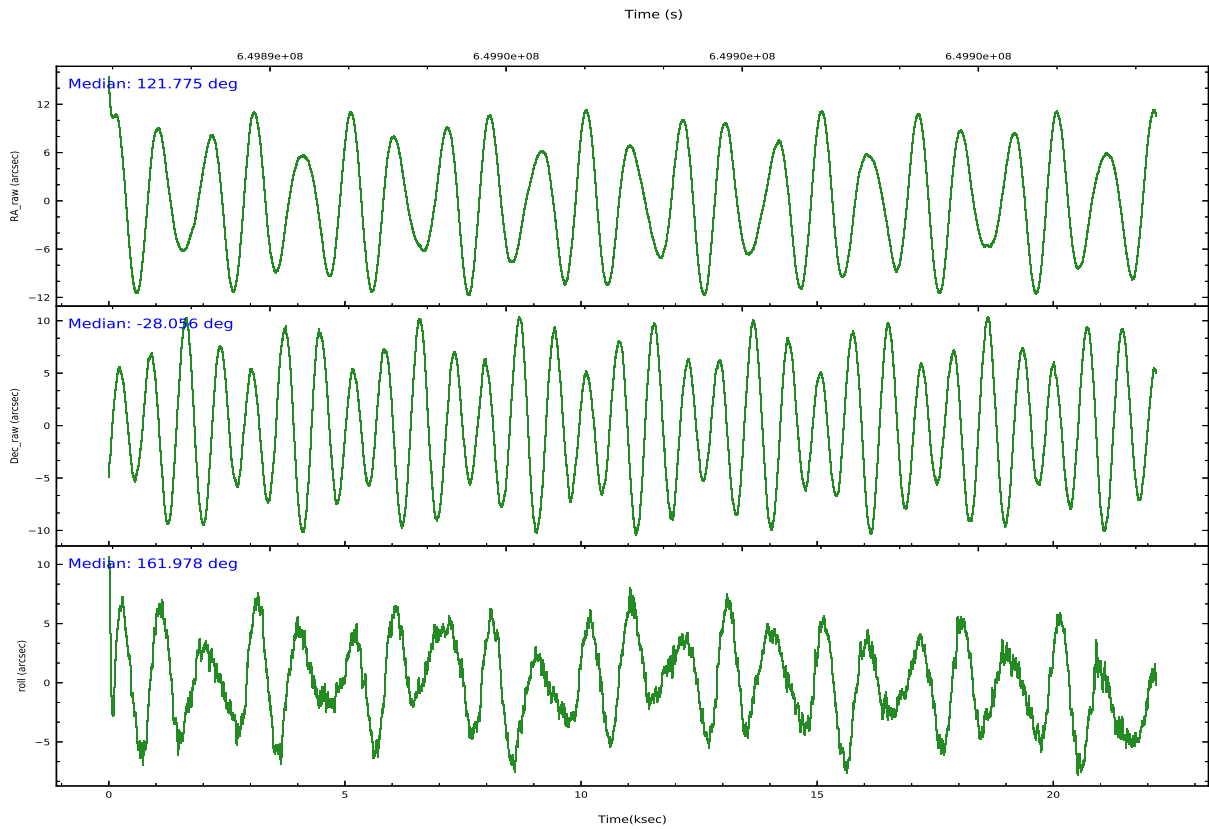
	ccd 7
grade 0 events	8190
	3%
grade 1 events	314
	0%
grade 2 events	20096
	9%
grade 3 events	7560
	3%
grade 4 events	7469
	3%
grade 5 events	20992
	10%
grade 6 events	50019
	23%
grade 7 events	94814
	45%

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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	121.805122	121.78069557992	Subarray requested	NONE	NONE
[deg] Pointing Dec	-28.049561	-28.051147607445	Alternating exposures requested	N	N
[deg] Pointing Roll	161.835531	161.97845603131	[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	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	649886764.184000	649885144.88319			
Observation start date	2018-08-05T20:04:55	2018-08-05T19:39:04			
[s] Observation end time (MET)	649908764.184000	649909827.90965			
Observation end date	2018-08-06T02:11:35	2018-08-06T02:30:27			
Read mode	TIMED	TIMED			

2.3 Aspect





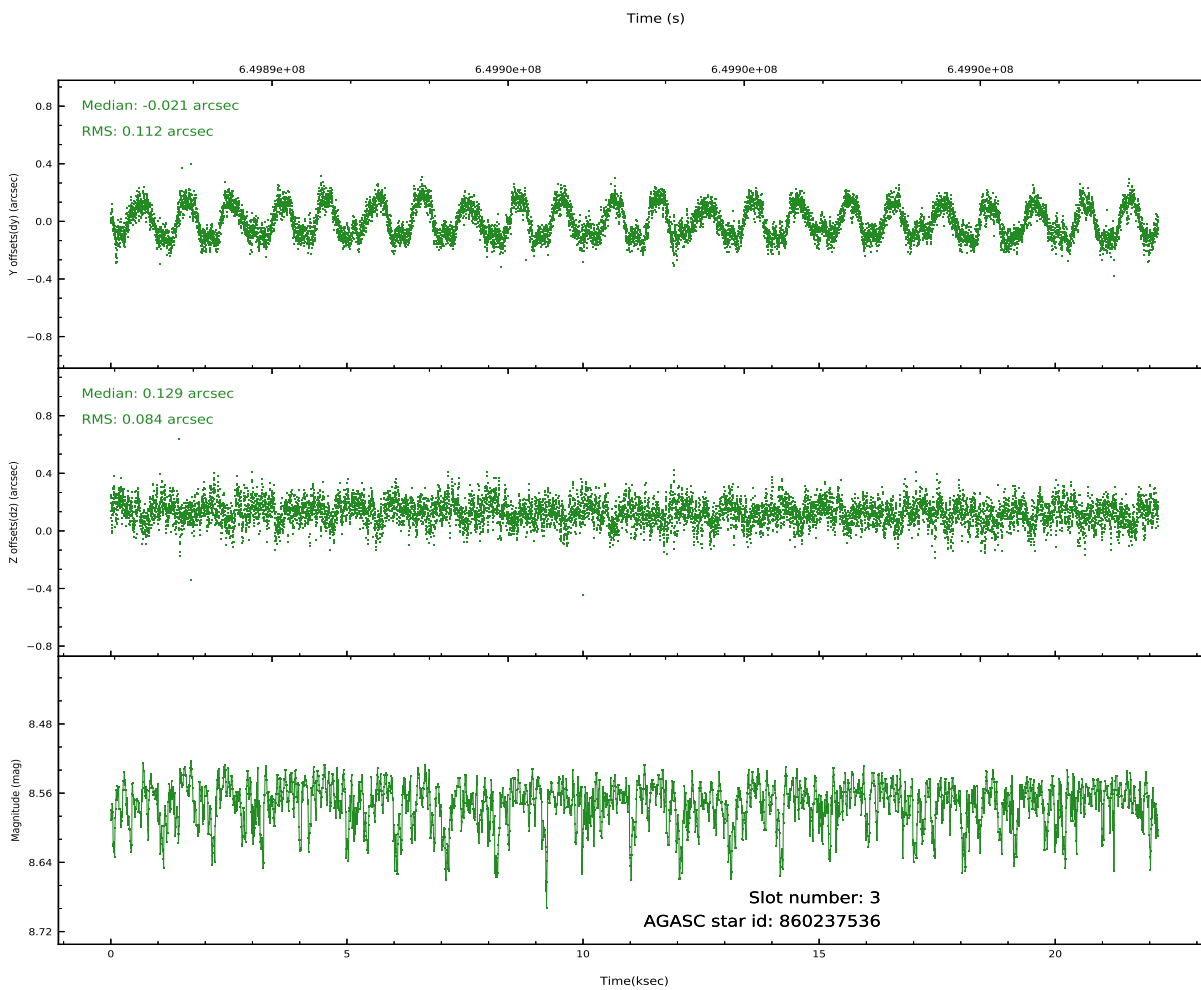
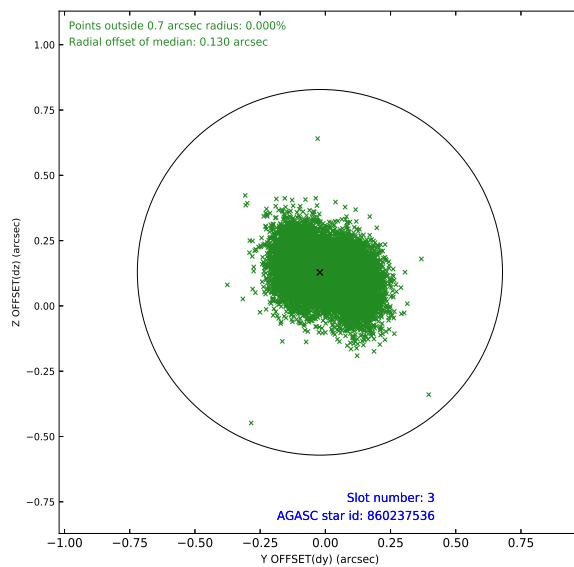
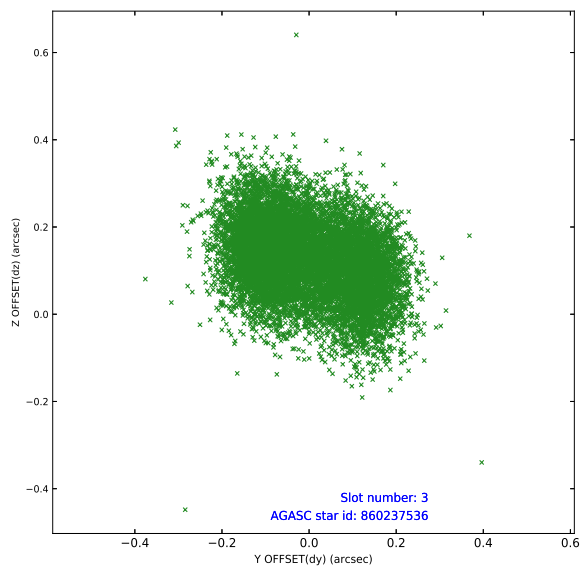
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.10	5410	1.000	0.034	-0.049	0.019	0.031	0.000000	0.000000	930.86	-1737
1	FID		ACIS-S-4	7.13	5409	1.000	0.039	-0.053	0.009	0.015	0.000000	0.000000	2148.36	166
2	FID		ACIS-S-6	7.26	5410	1.000	-0.095	0.117	0.018	0.037	0.000000	0.000000	396.87	804
3	GUIDE	used	860237536	8.57	10814	1.000	-0.021	0.129	0.152	0.231	122.517042	-27.841356	-1921.25	-1412
4	GUIDE	used	860229056	8.99	10811	1.000	0.179	-0.164	0.153	0.247	121.416930	-27.442632	1859.44	-1687
5	GUIDE	used	860241824	8.52	10808	1.000	-0.019	0.054	0.139	0.209	122.599277	-27.770699	-2092.46	-1734
6	GUIDE	used	860629056	8.61	10811	1.000	0.063	0.092	0.104	0.178	120.889708	-28.383120	2377.12	2055
7	GUIDE	used	860622208	8.55	10812	1.000	-0.217	-0.111	0.107	0.183	121.079753	-28.509954	1661.63	2297

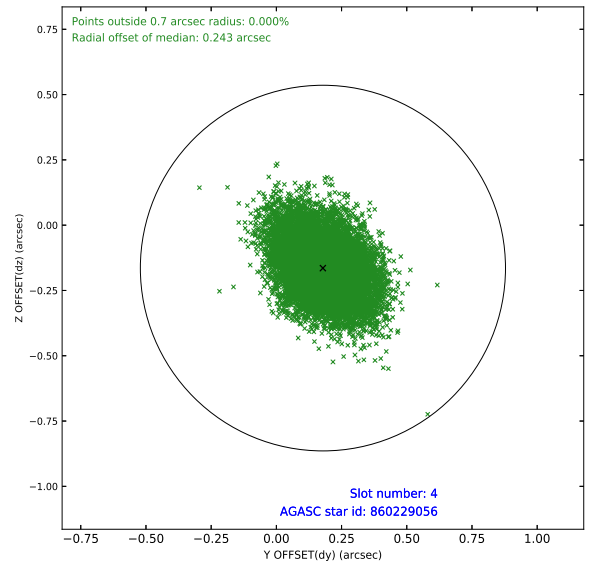
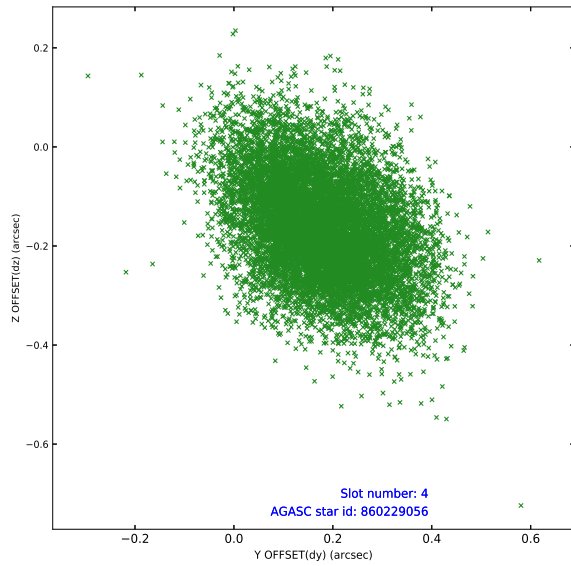
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2.4 Star Slots

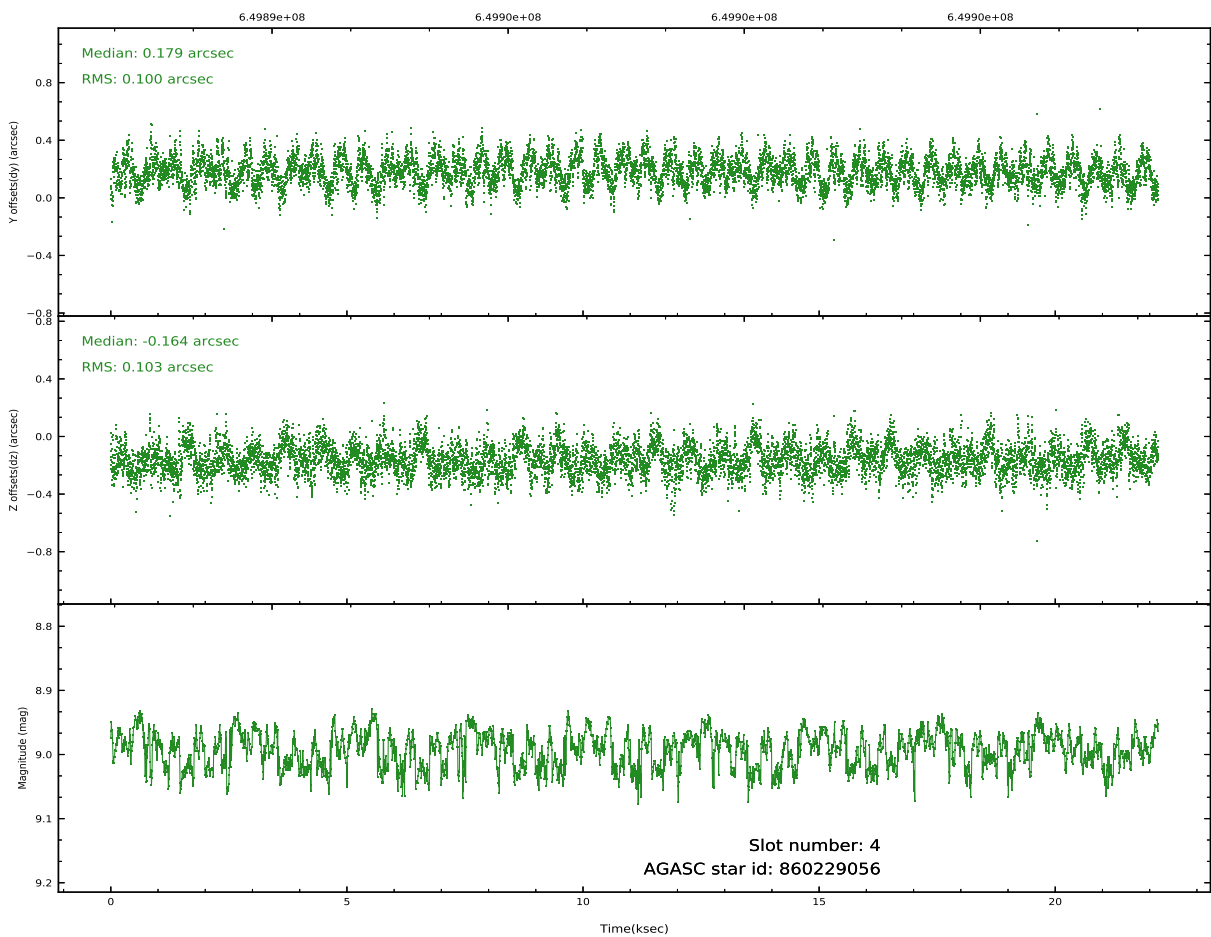
2.4.1 Slot 3



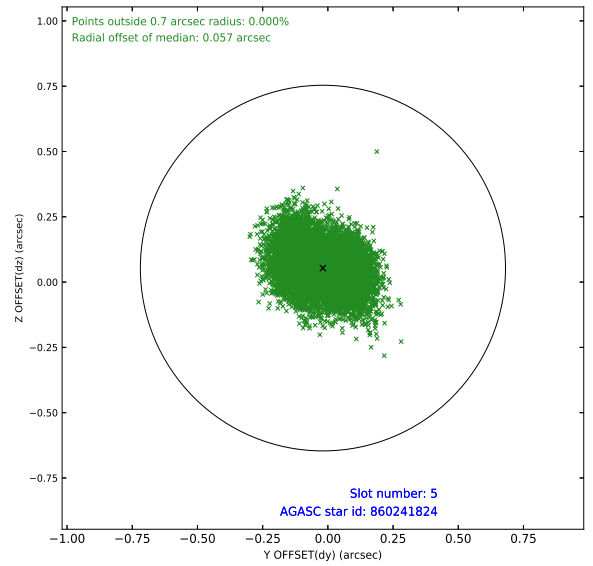
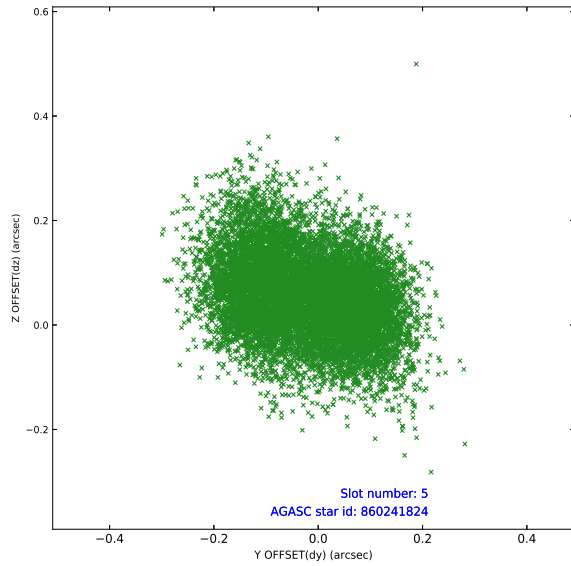
2.4.2 Slot 4



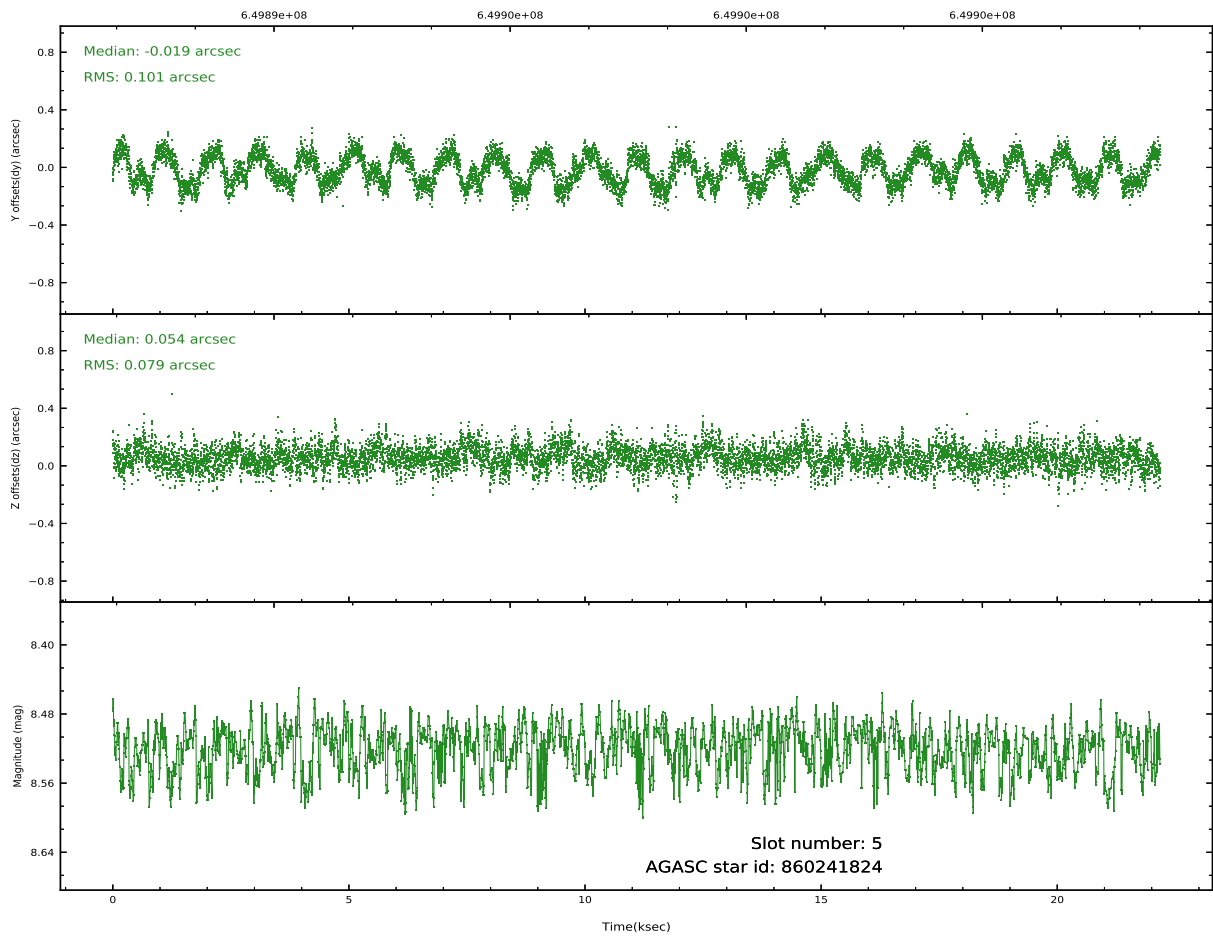
Time (s)



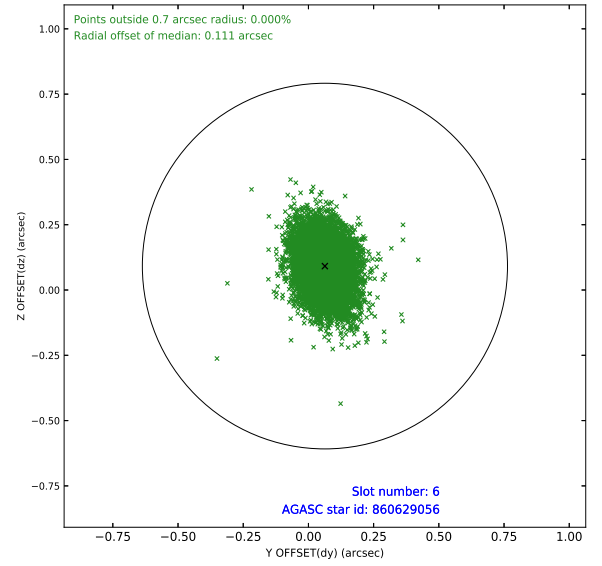
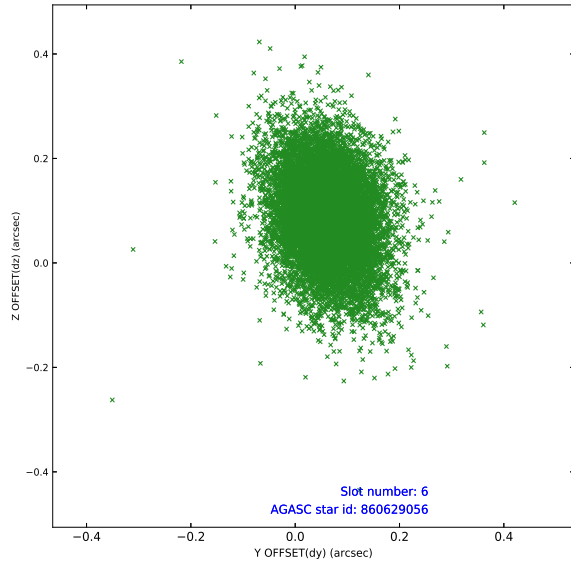
2.4.3 Slot 5



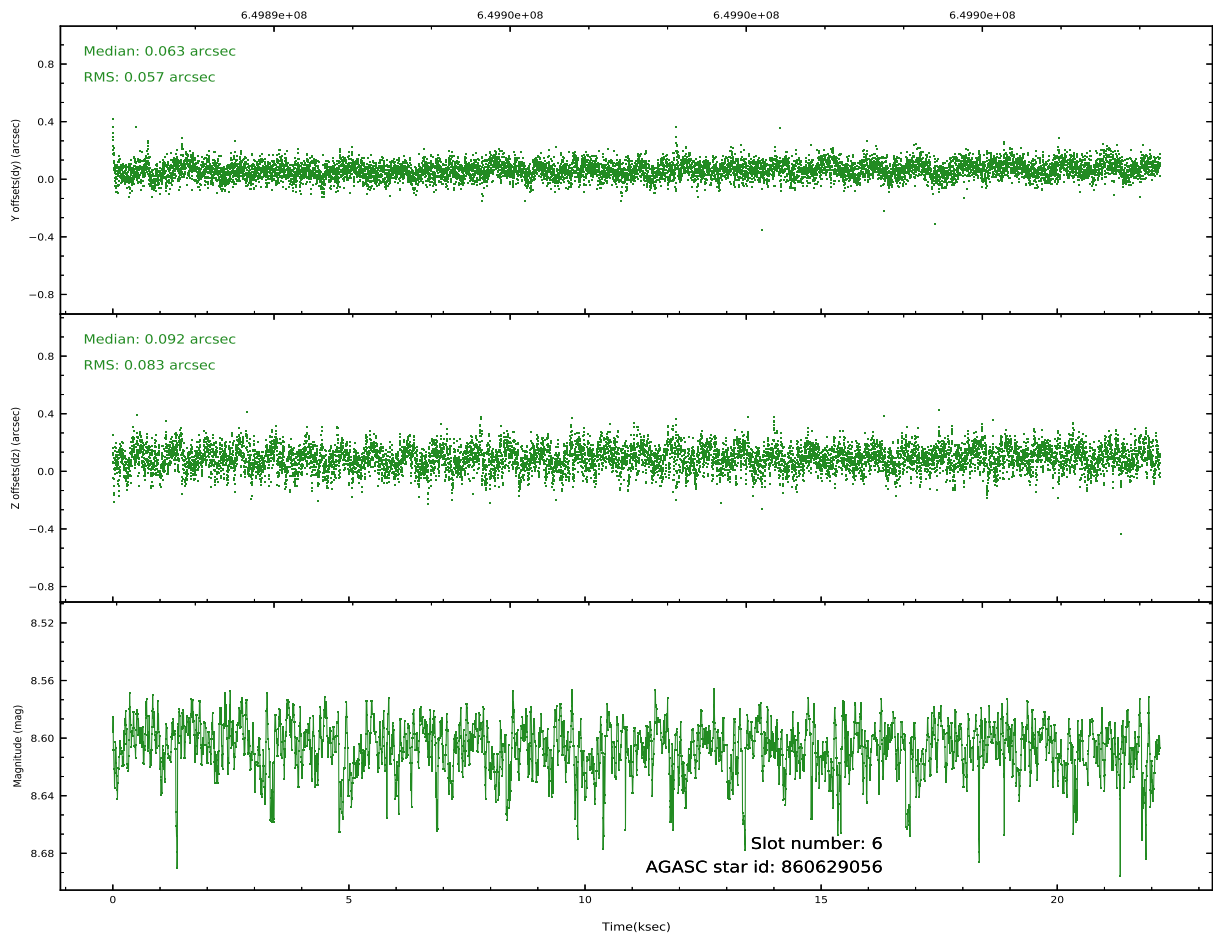
Time (s)



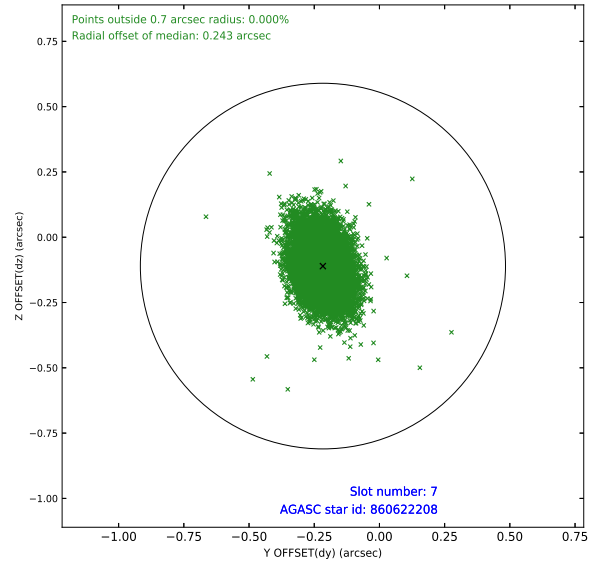
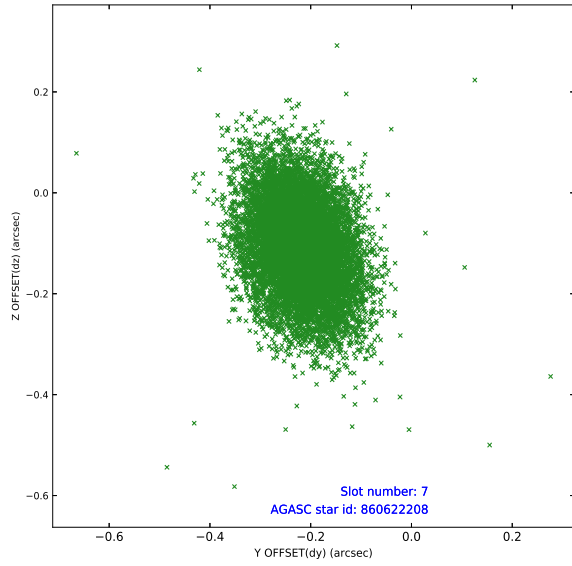
2.4.4 Slot 6



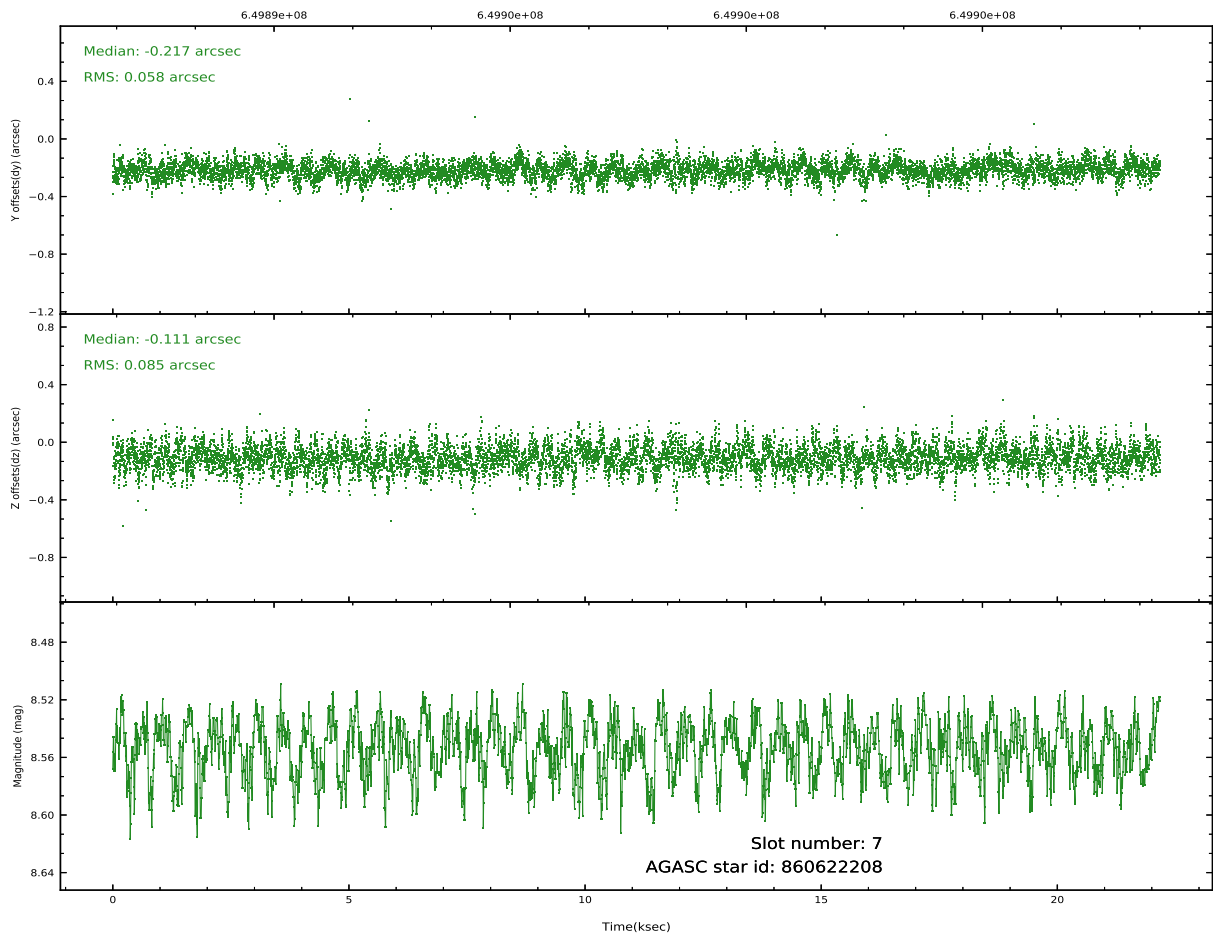
Time (s)



2.4.5 Slot 7

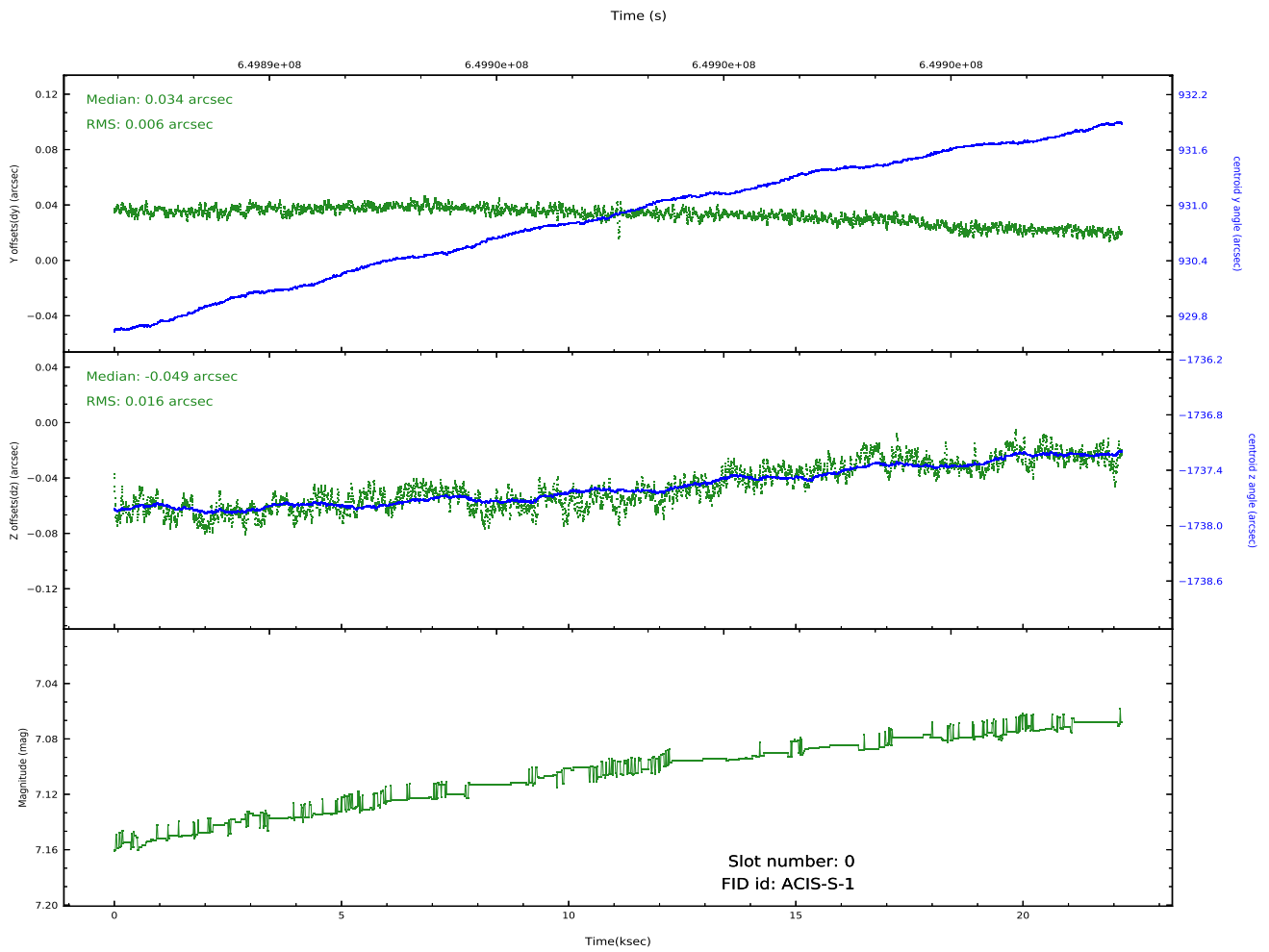
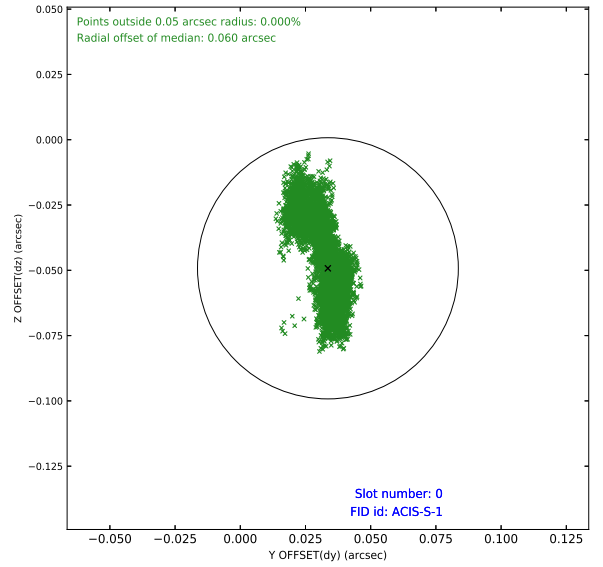
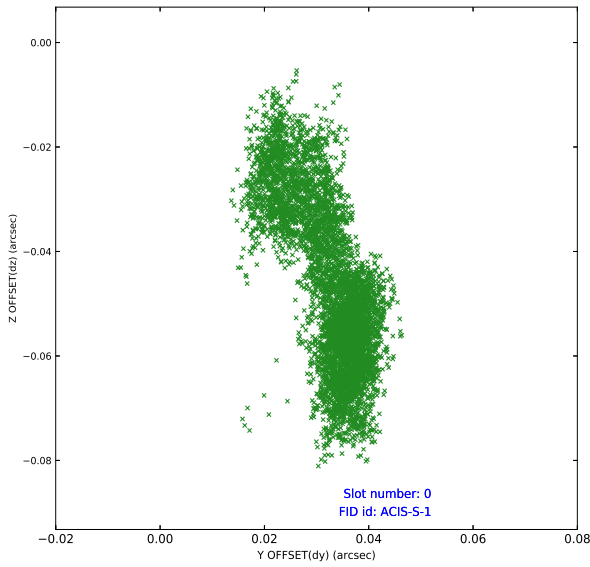


Time (s)

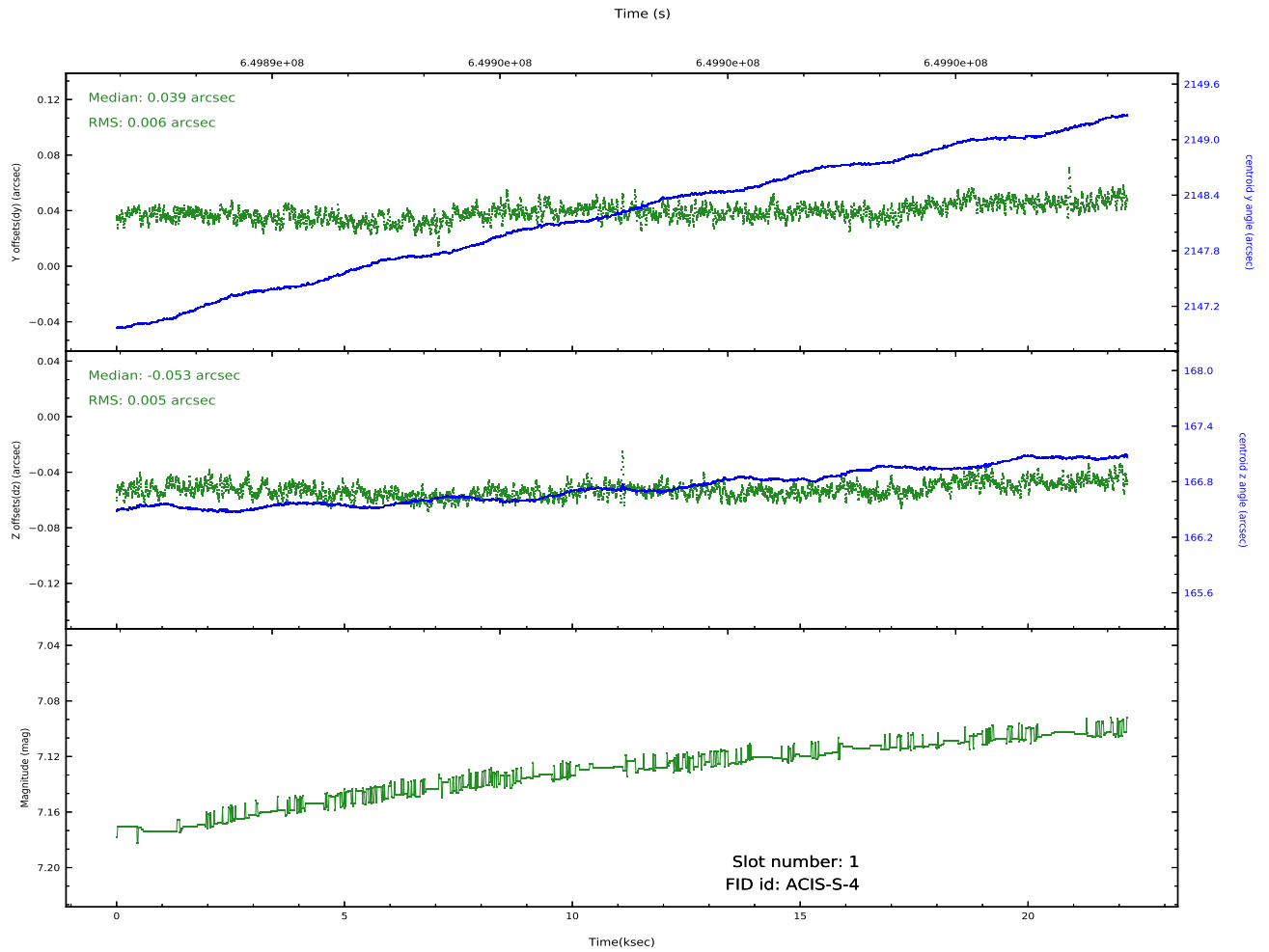
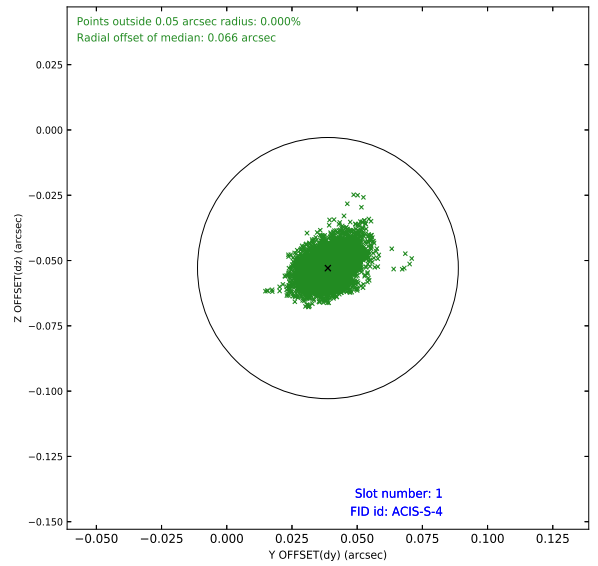
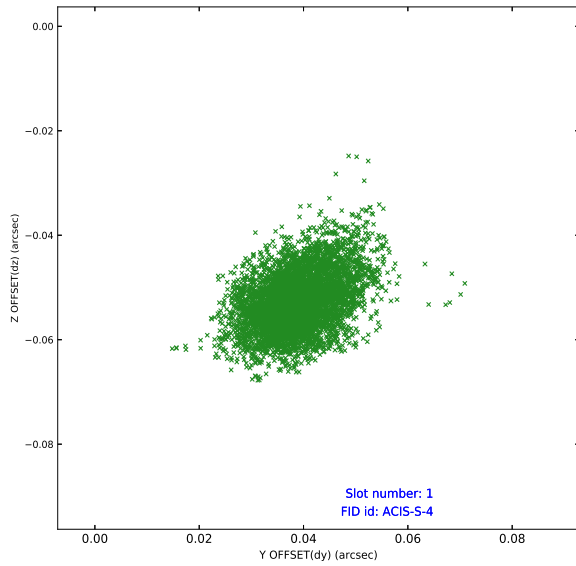


2.5 FID Slots

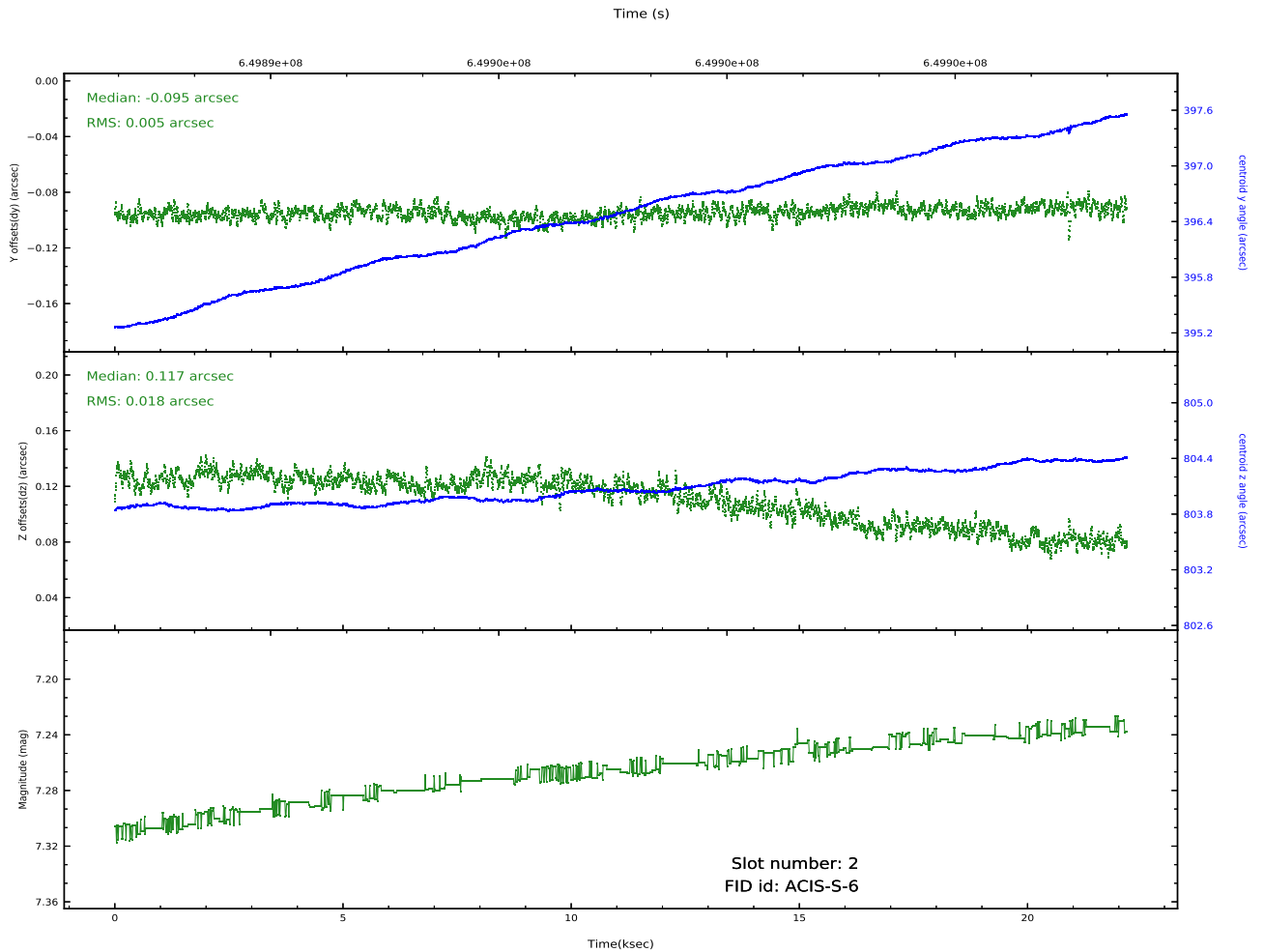
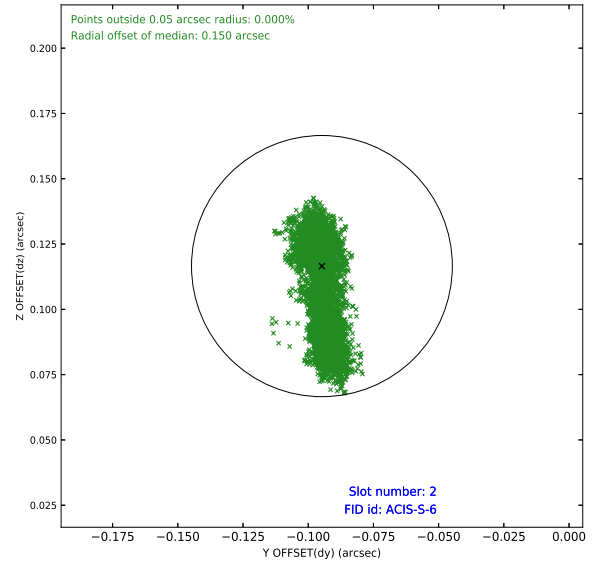
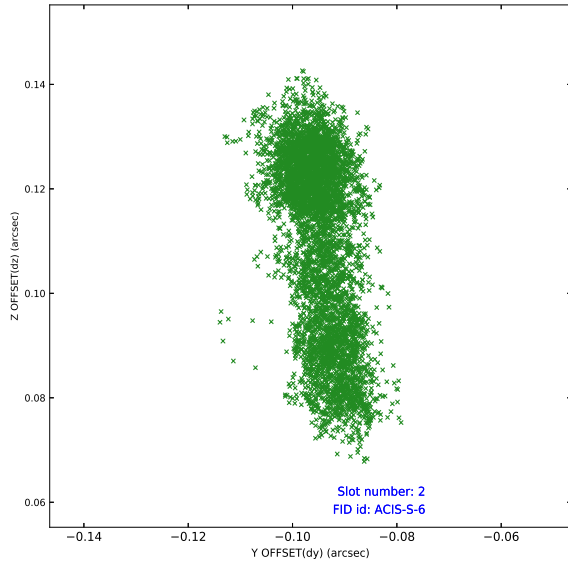
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	22.092

A.2 Comments