

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5654 - L2 Version 4
Chandra X-Ray Center

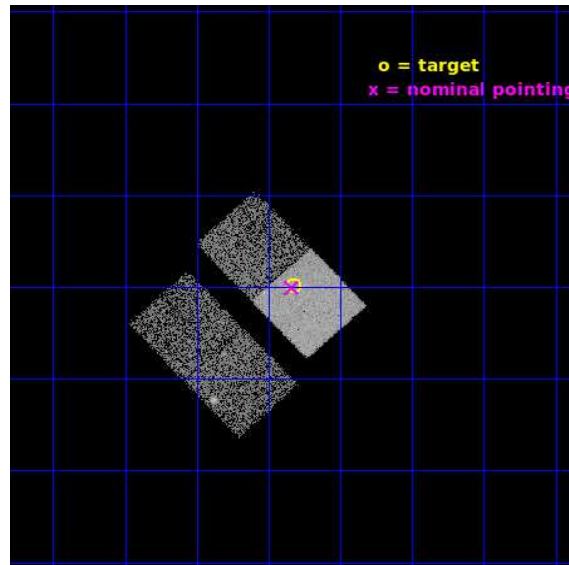
L2 Processing Date : Oct 11 2020

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1 Front

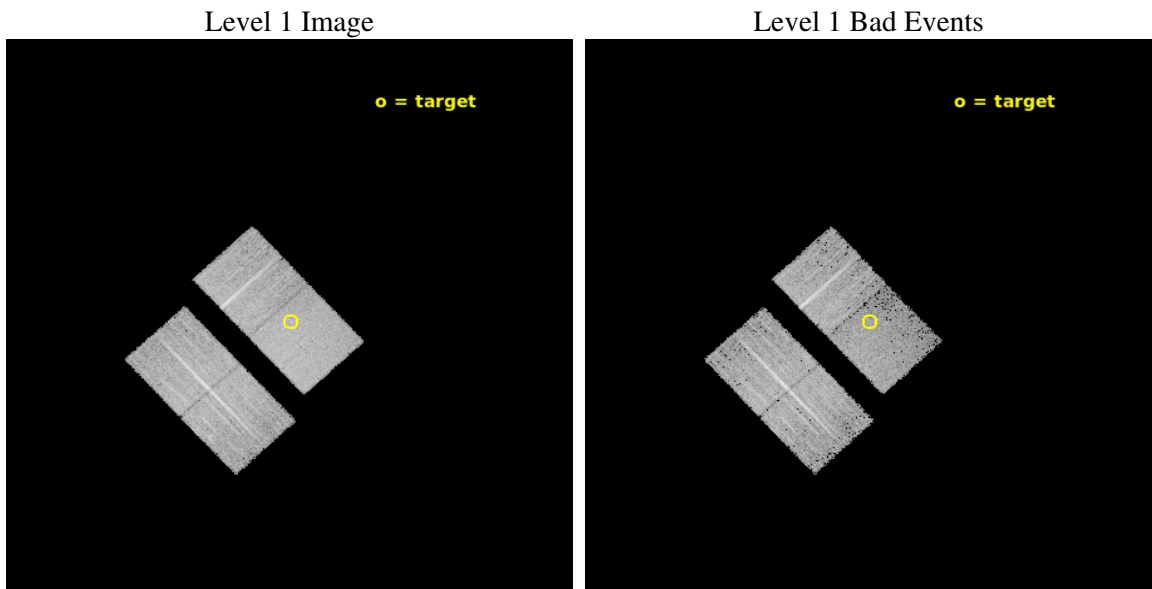
seq_num	701077	Sequence number
obs_id	5654	Observation id
title	The Spectral Energy Distribution and Fe II Emission in Intermediate-Redshift Narrow-line Seyfert 1 Galaxies	Proposal title
observer	Professor Karen Leighly	Principal investigator
object	SDSS J032349.53-002949.7	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	50.95625	Observer's specified target RA [deg]
dec_targ	-0.497139	Observer's specified target Dec [deg]
ra_nom	50.959392428185	Nominal RA [deg]
dec_nom	-0.50103147607537	Nominal Dec [deg]
roll_nom	47.190001288182	Nominal Roll [deg]
revision	4	Processing version of data
ontime	8416.4999837875	Sum of GTIs [s]
livetime	8306.5322153622	Livetime [s]
ontime2	8416.4999837875	Sum of GTIs [s]
ontime3	8407.0770530403	Sum of GTIs [s]
ontime6	8416.4999837875	Sum of GTIs [s]
ontime7	8416.4999837875	Sum of GTIs [s]
l2events	41130	Number of level 2 events



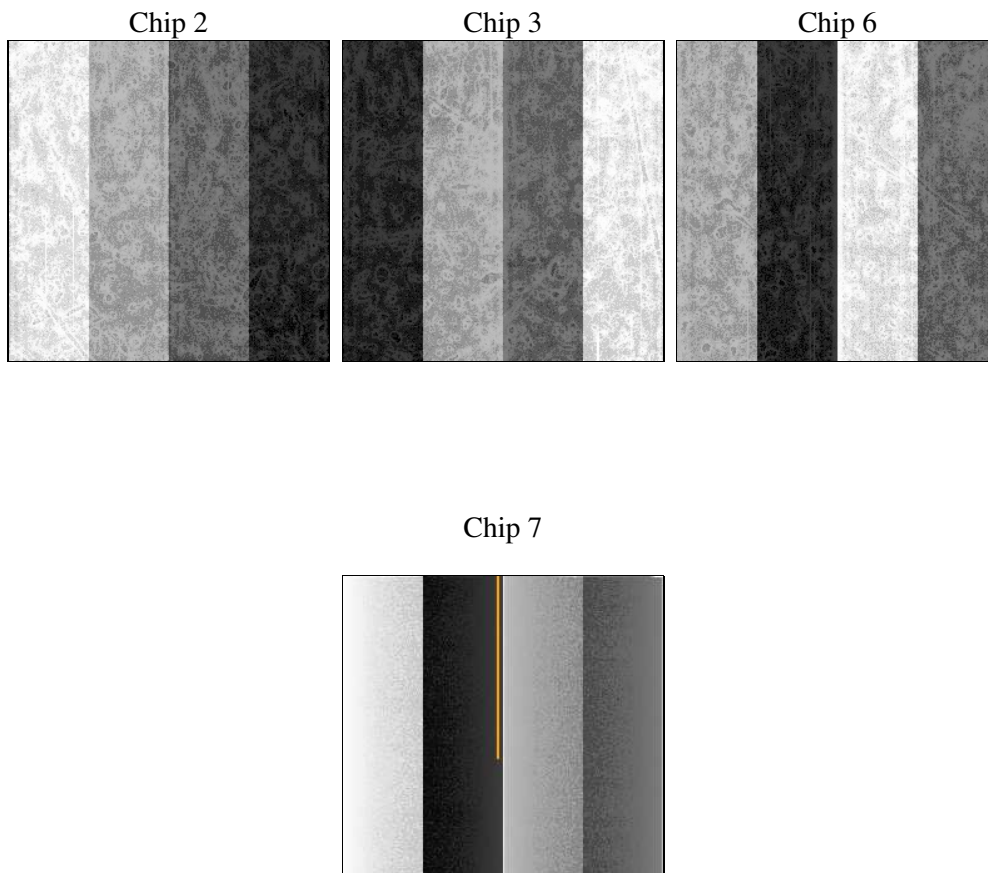
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	8300.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	8416.4999837875	Sum of GTIs [s]
caldbver	4.9.2	 	ontime2	8416.4999837875	Sum of GTIs [s]
date	2020-10-11T04:38:50	Date and time of file creation	ontime3	8407.0770530403	Sum of GTIs [s]
revision	4	Processing version of data	ontime6	8416.4999837875	Sum of GTIs [s]
			ontime7	8416.4999837875	Sum of GTIs [s]
			l1events	245712	Number of level 1 events

2.1.4 Events

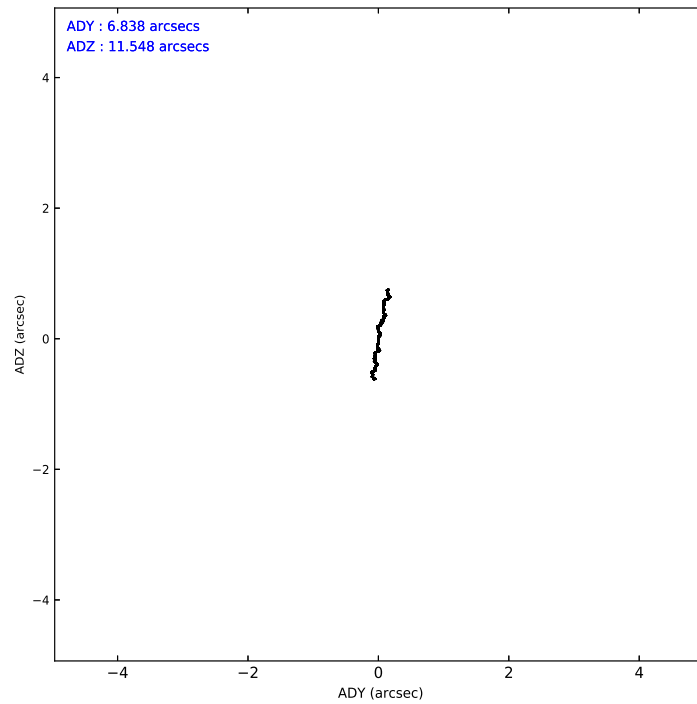
	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	60863	59292	58615	66942
rejected events	55767	53929	52983	38647
rejected %	91%	90%	90%	57%

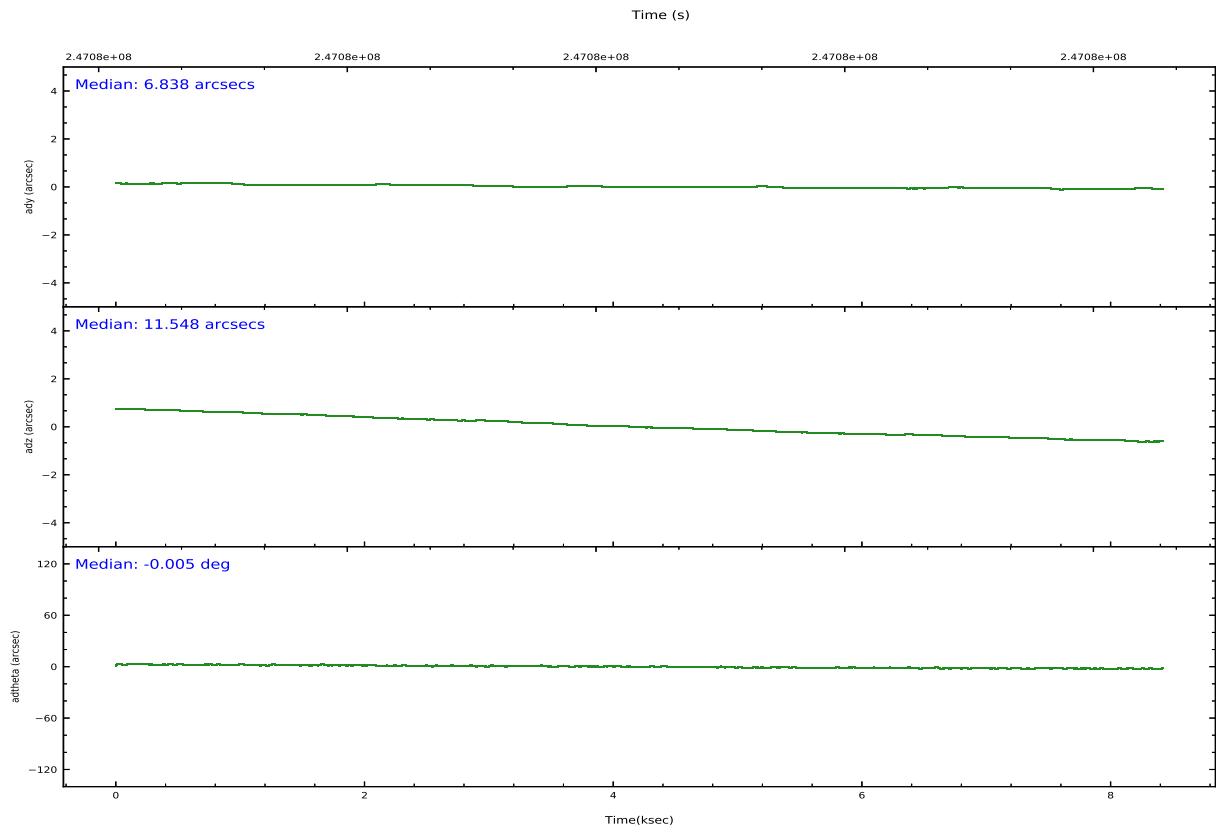
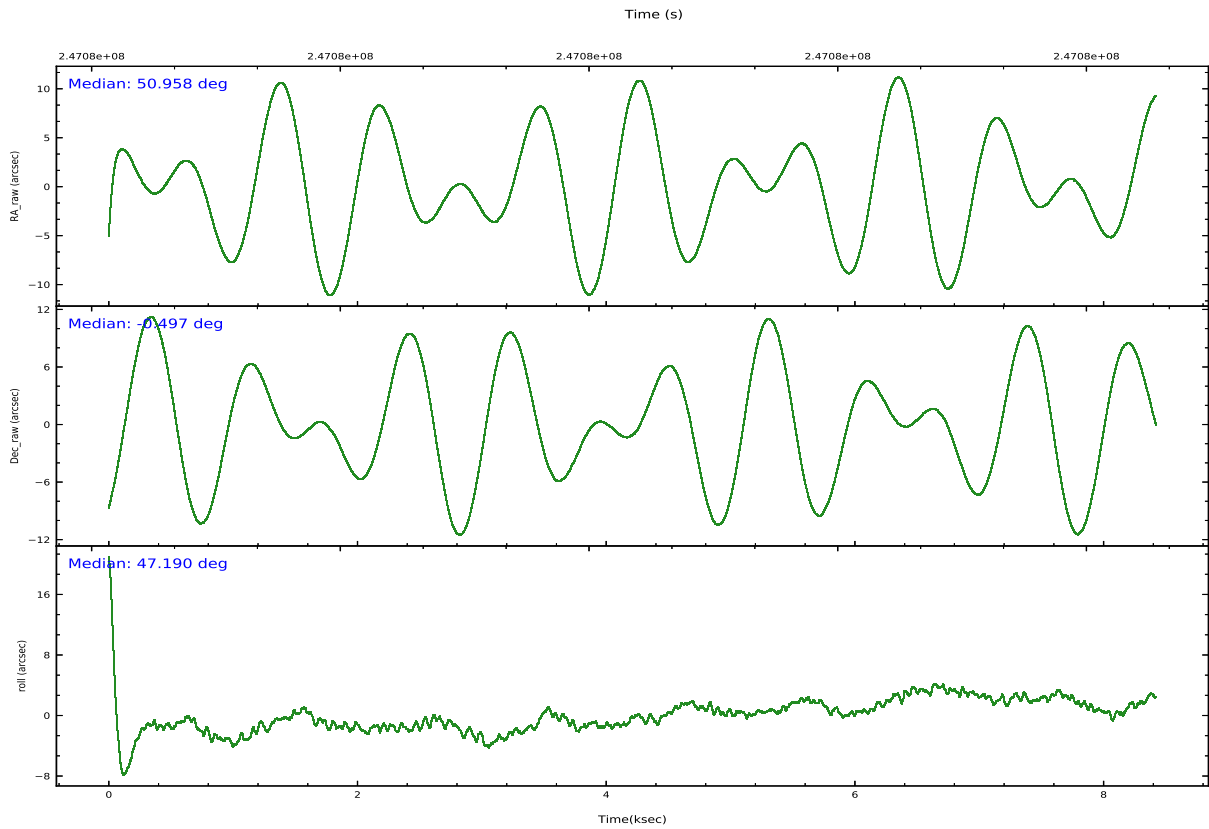
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	2059	2144	2116	2812
	3%	3%	3%	4%
grade 1 events	29	30	25	65
	0%	0%	0%	0%
grade 2 events	1247	1230	1348	6154
	2%	2%	2%	9%
grade 3 events	613	661	636	2833
	1%	1%	1%	4%
grade 4 events	611	641	680	2976
	1%	1%	1%	4%
grade 5 events	1902	2331	2515	7102
	3%	3%	4%	10%
grade 6 events	963	1069	1307	15856
	1%	1%	2%	23%
grade 7 events	53439	51186	49988	29144
	87%	86%	85%	43%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-2367	ACIS-2367	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	50.952648	50.959392428185	Subarray requested	NONE	NONE
[deg] Pointing Dec	-0.524001	-0.50103147607537	Alternating exposures requested	N	N
[deg] Pointing Roll	47.036702	47.190001288182	[s] Primary exposure time	0.000000	3.1
[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)	247076260.184000	247074959.01703			
Observation start date	2005-10-30T16:16:36	2005-10-30T15:55:59			
[s] Observation end time (MET)	247084560.184000	247084699.59248			
Observation end date	2005-10-30T18:34:56	2005-10-30T18:38:19			
Read mode	TIMED	TIMED			

2.3 Aspect





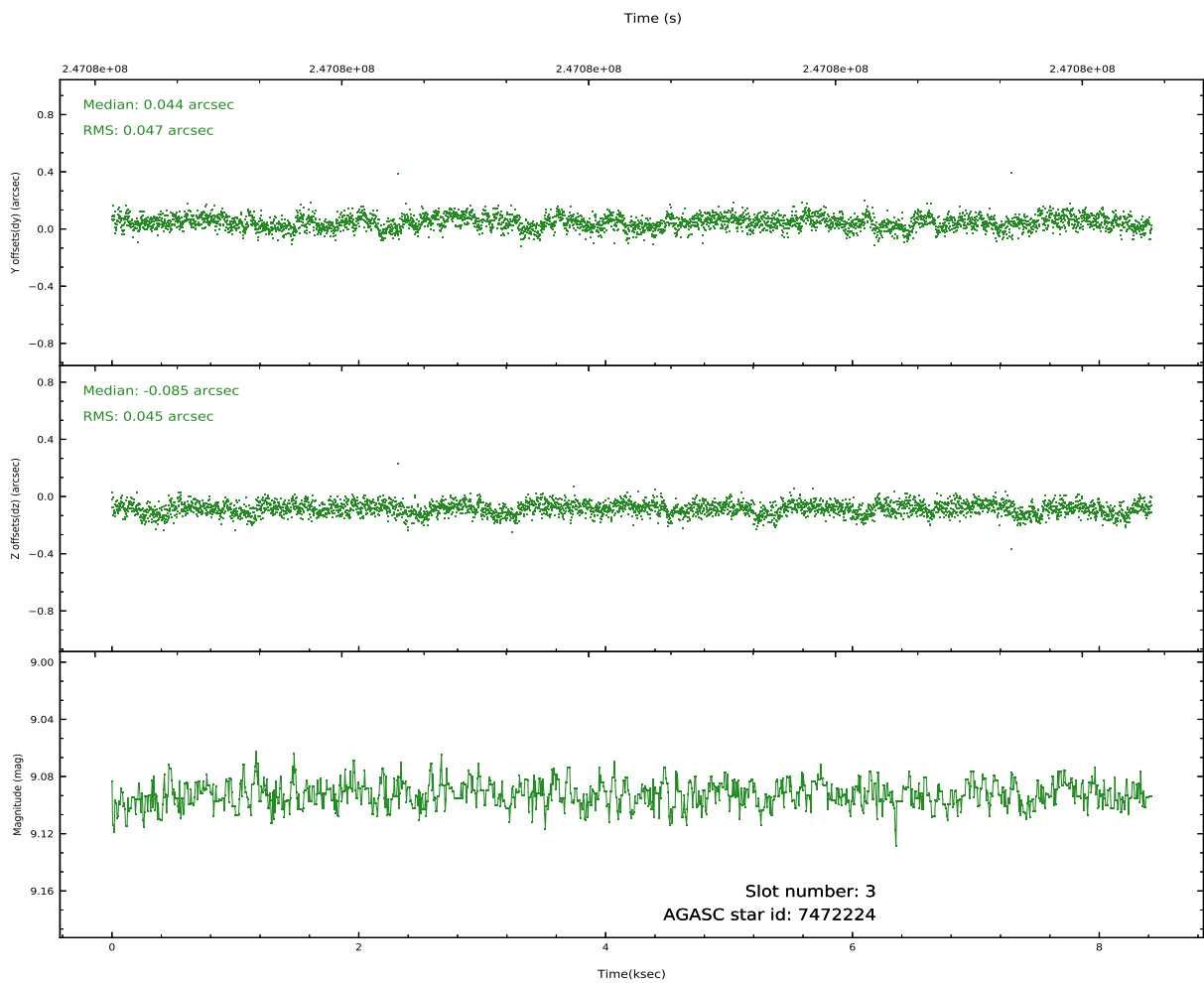
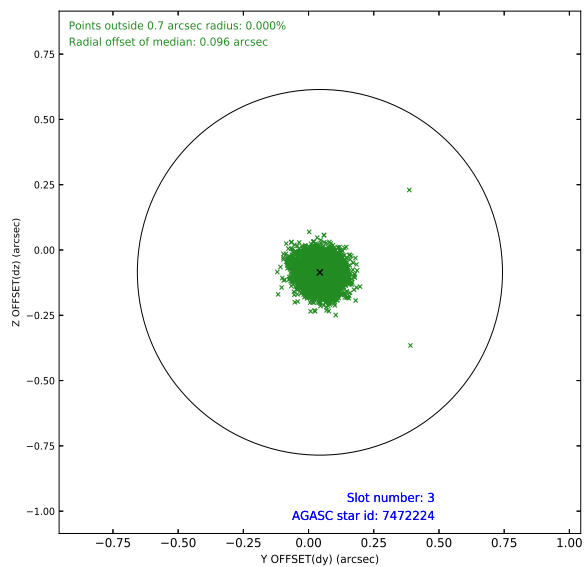
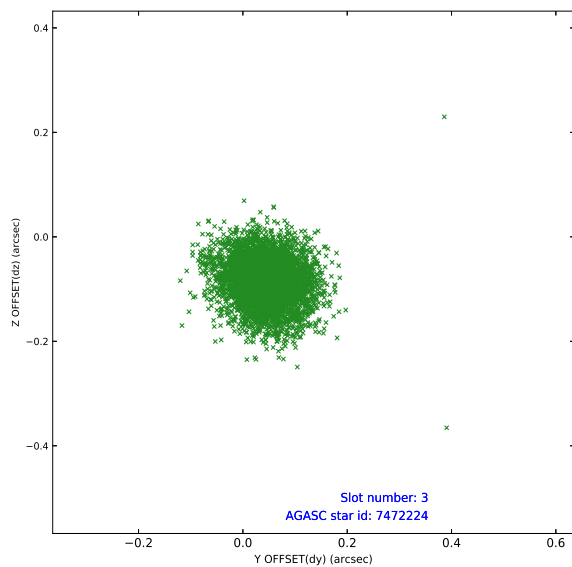
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-2	7.10	2055	1.000	-0.072	-0.060	0.016	0.024	0.000000	0.000000	-759.63	-1732
1	FID		ACIS-S-4	7.20	2055	1.000	0.140	0.050	0.009	0.016	0.000000	0.000000	2153.51	175
2	FID		ACIS-S-5	7.23	2055	1.000	-0.100	0.017	0.014	0.022	0.000000	0.000000	-1811.70	169
3	GUIDE	used	7472224	9.09	4109	1.000	0.044	-0.085	0.068	0.111	50.954093	0.013958	1420.75	1316
4	GUIDE	used	617226472	8.72	4109	1.000	-0.011	0.061	0.078	0.121	51.517896	-0.643841	1071.79	-1782
5	GUIDE	used	617227784	9.11	4103	1.000	-0.105	0.078	0.080	0.134	51.447692	-0.728205	676.99	-1805
6	GUIDE	used	7472568	9.19	4091	1.000	0.035	0.084	0.118	0.185	51.063140	0.244649	2295.94	1594
7	GUIDE	used	617222168	8.07	4109	1.000	0.031	-0.145	0.054	0.086	50.285317	-0.369555	-1230.23	2136

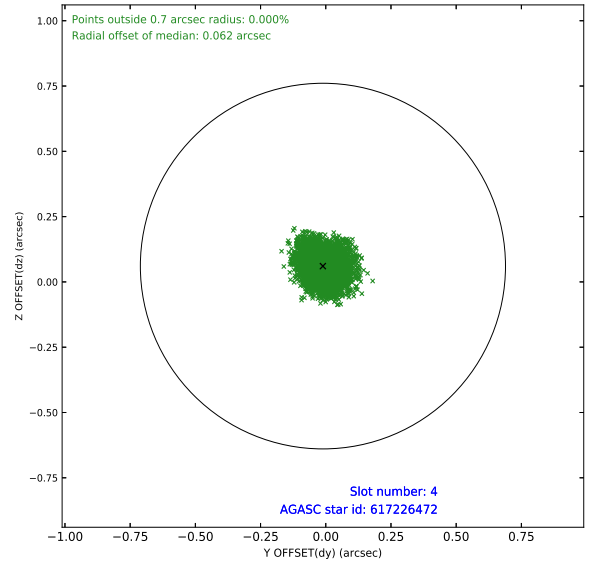
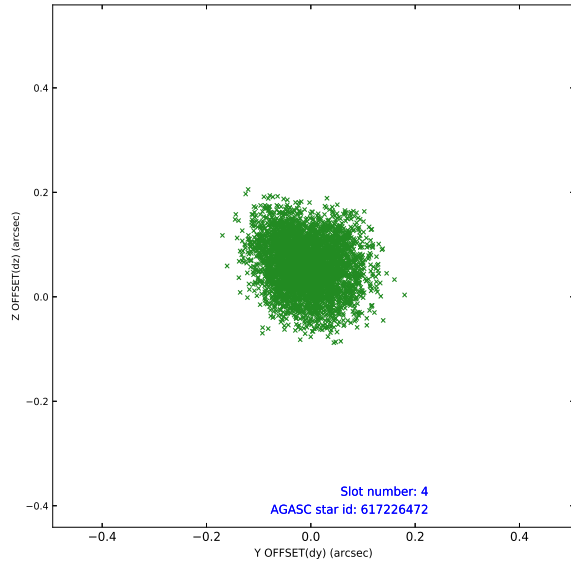
∞

2.4 Star Slots

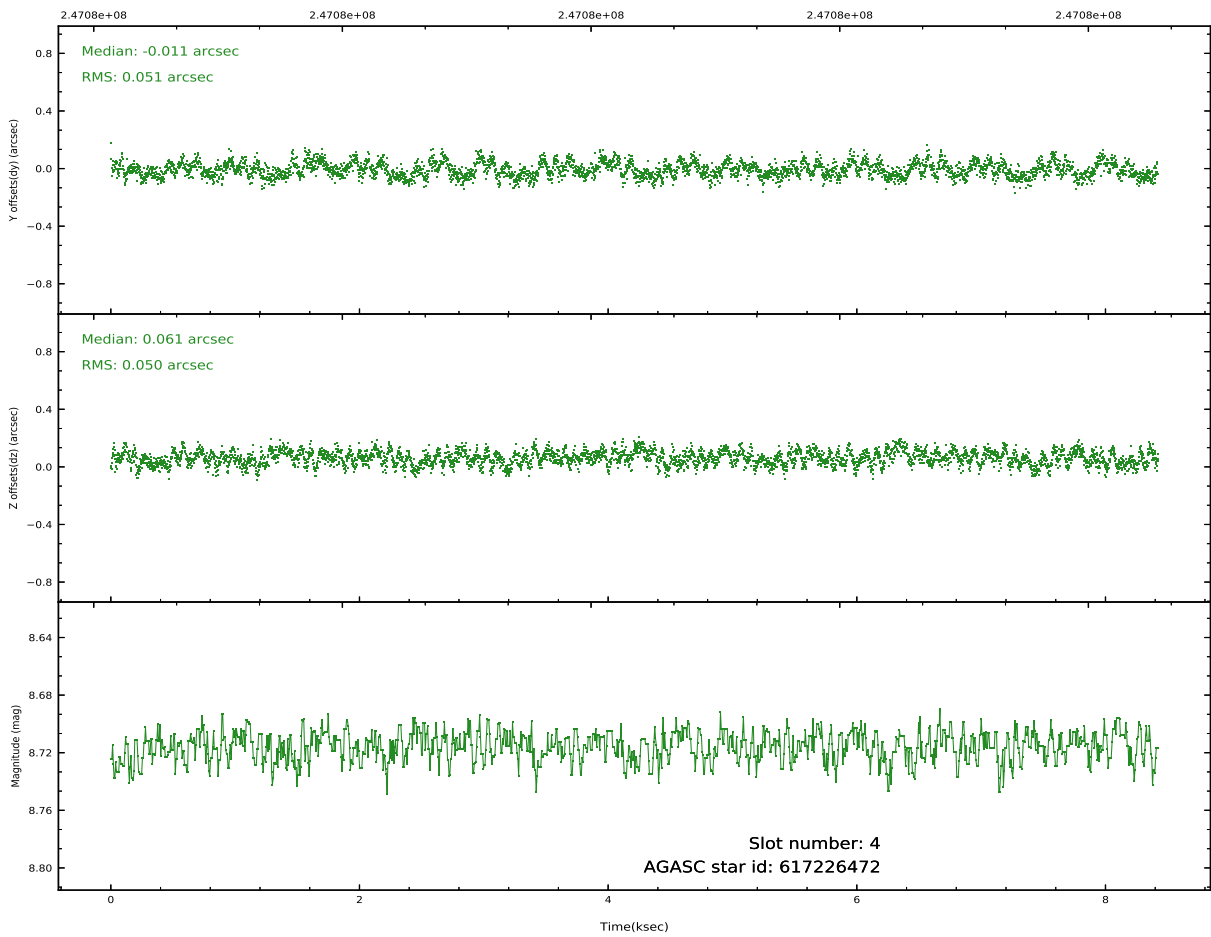
2.4.1 Slot 3



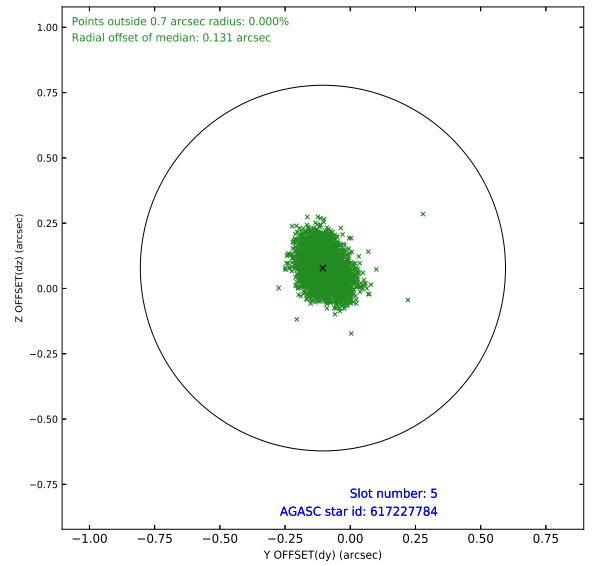
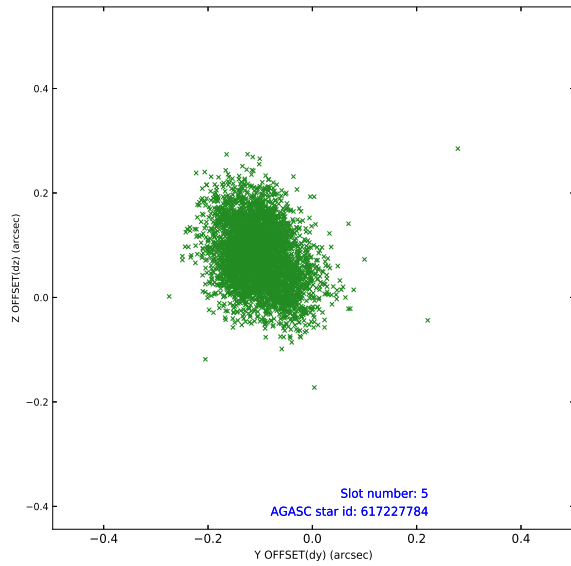
2.4.2 Slot 4



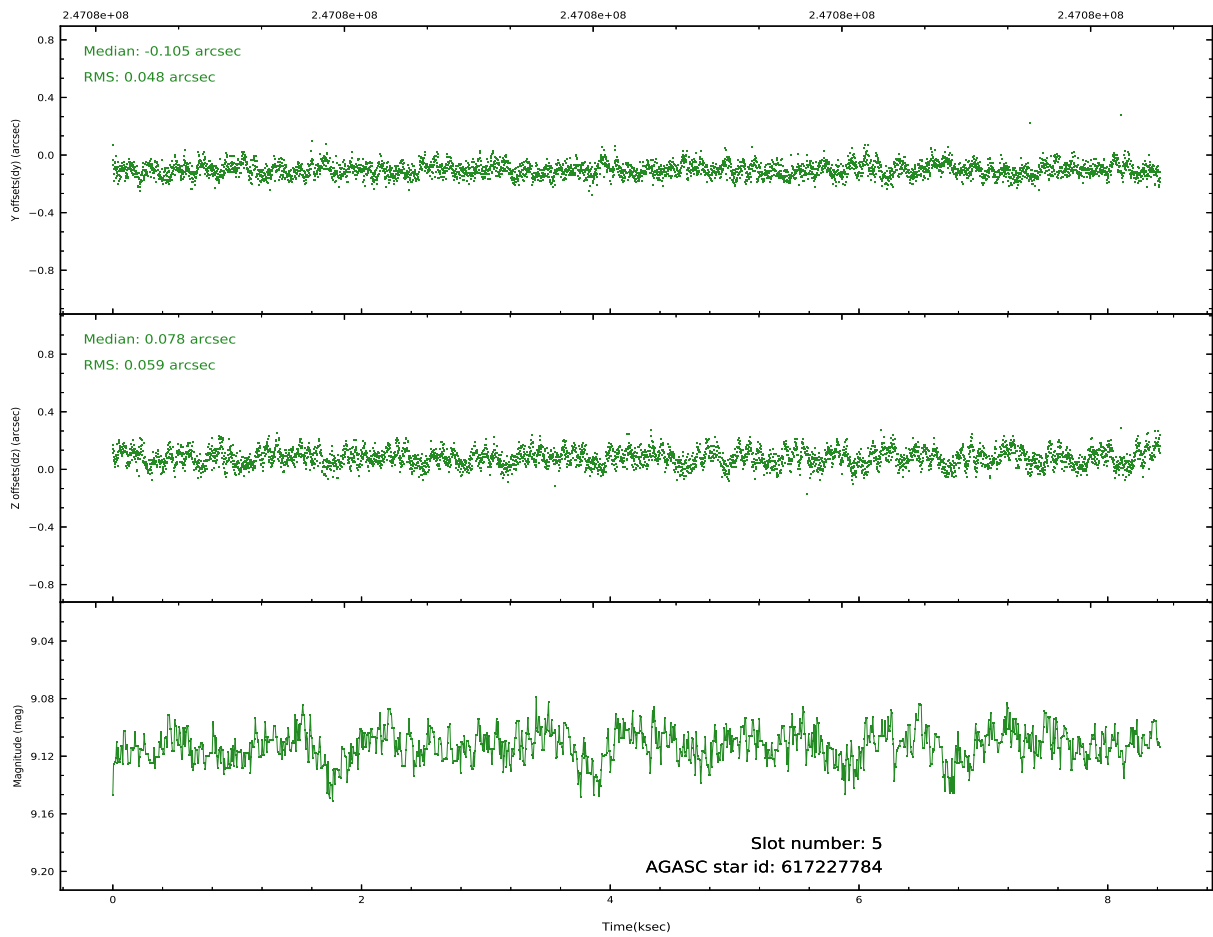
Time (s)



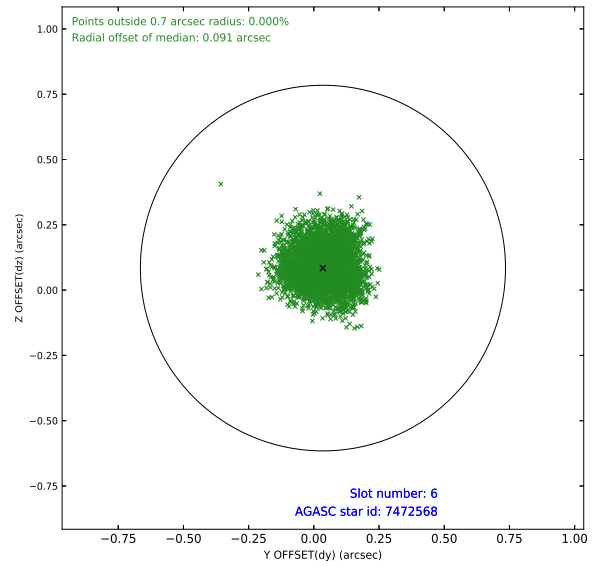
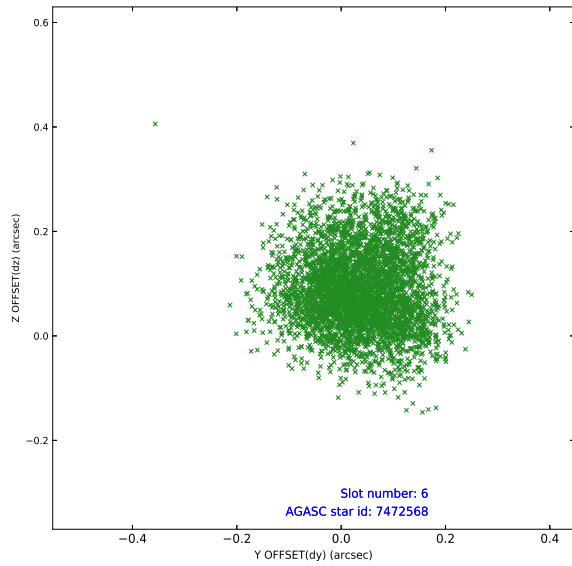
2.4.3 Slot 5



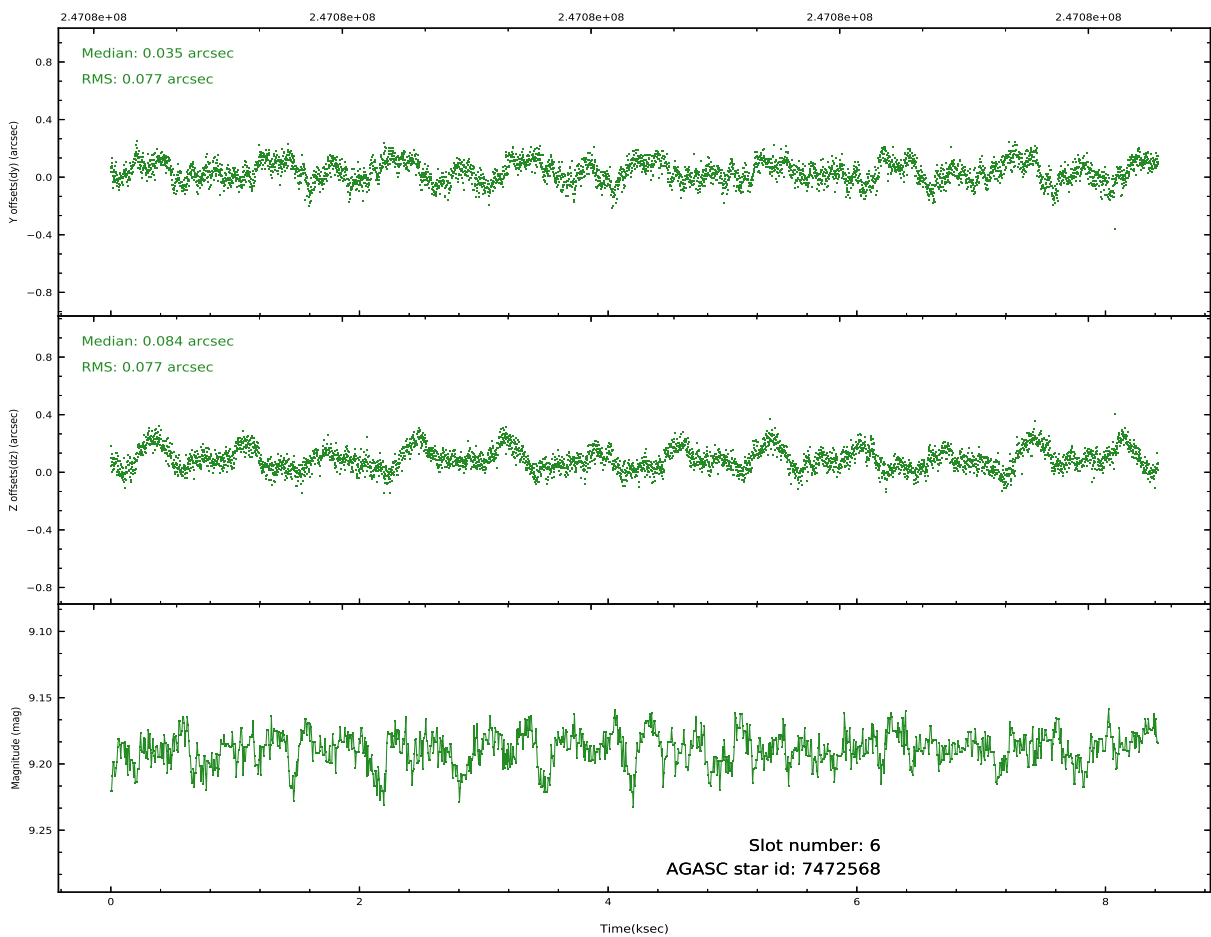
Time (s)



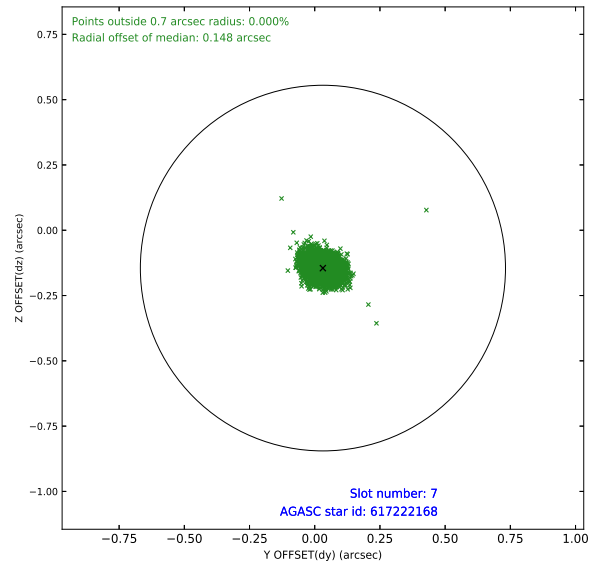
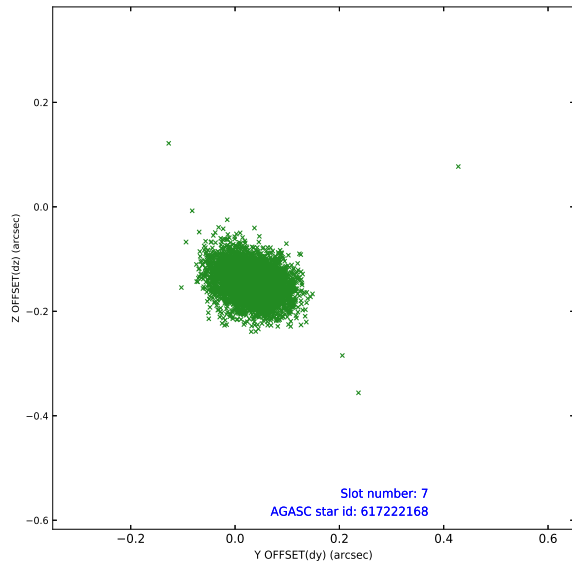
2.4.4 Slot 6



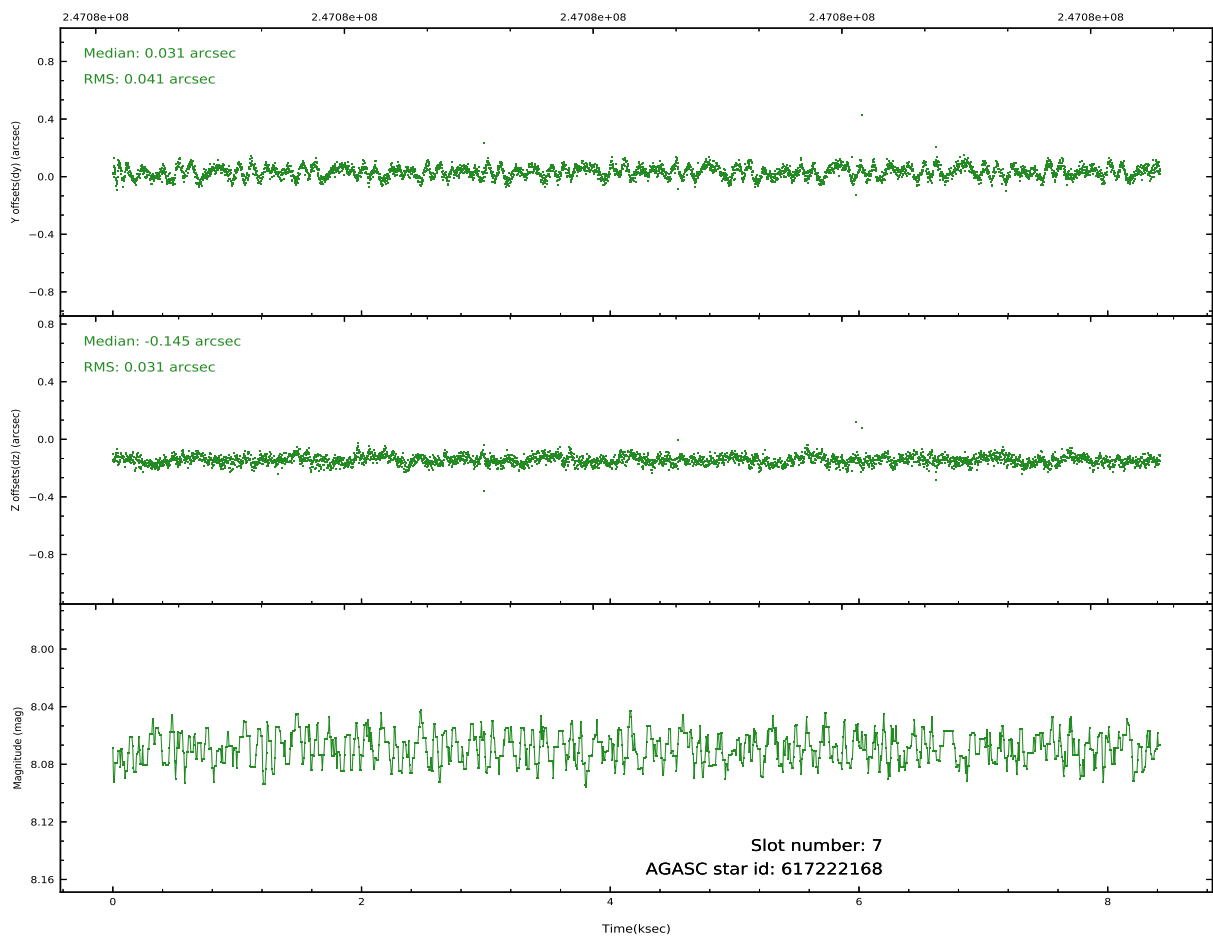
Time (s)



2.4.5 Slot 7

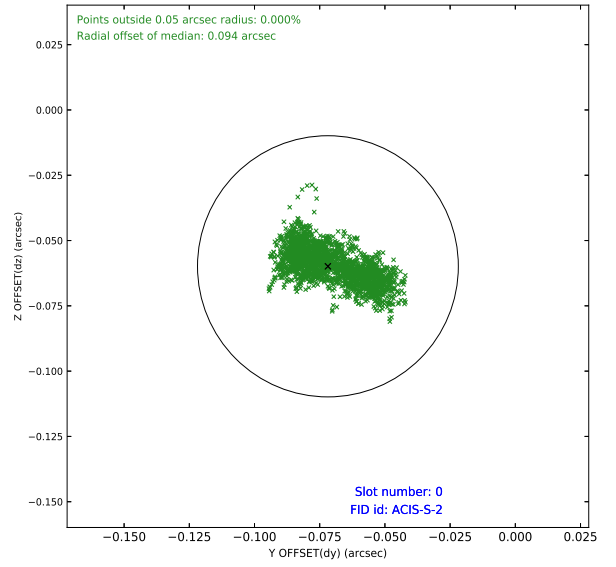
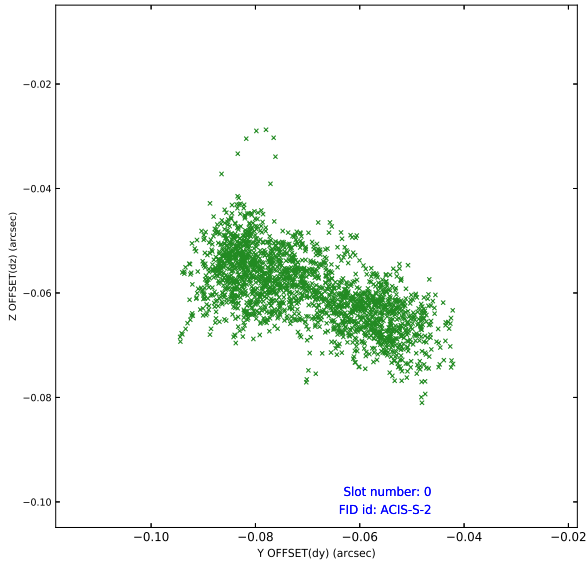


Time (s)

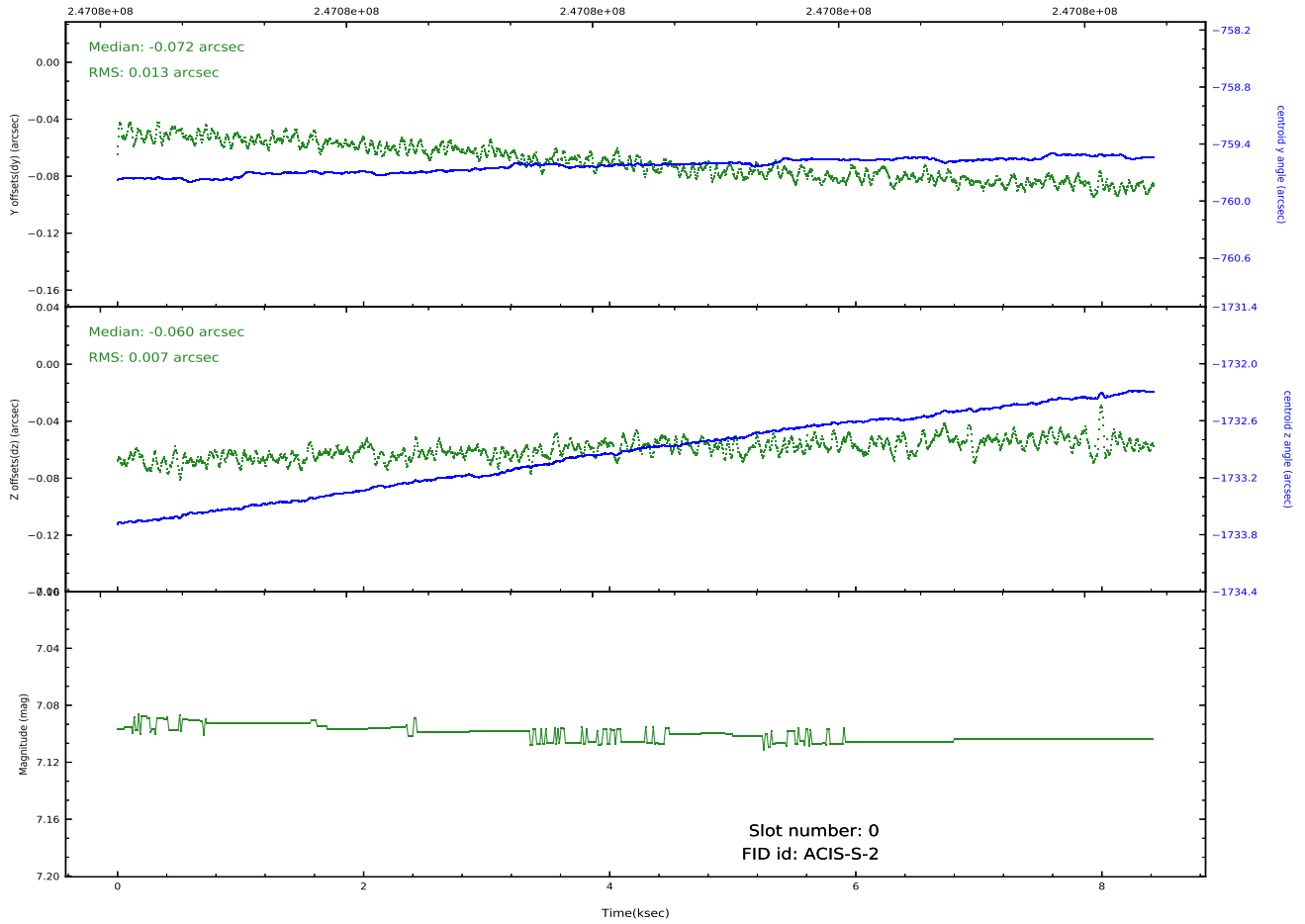


2.5 FID Slots

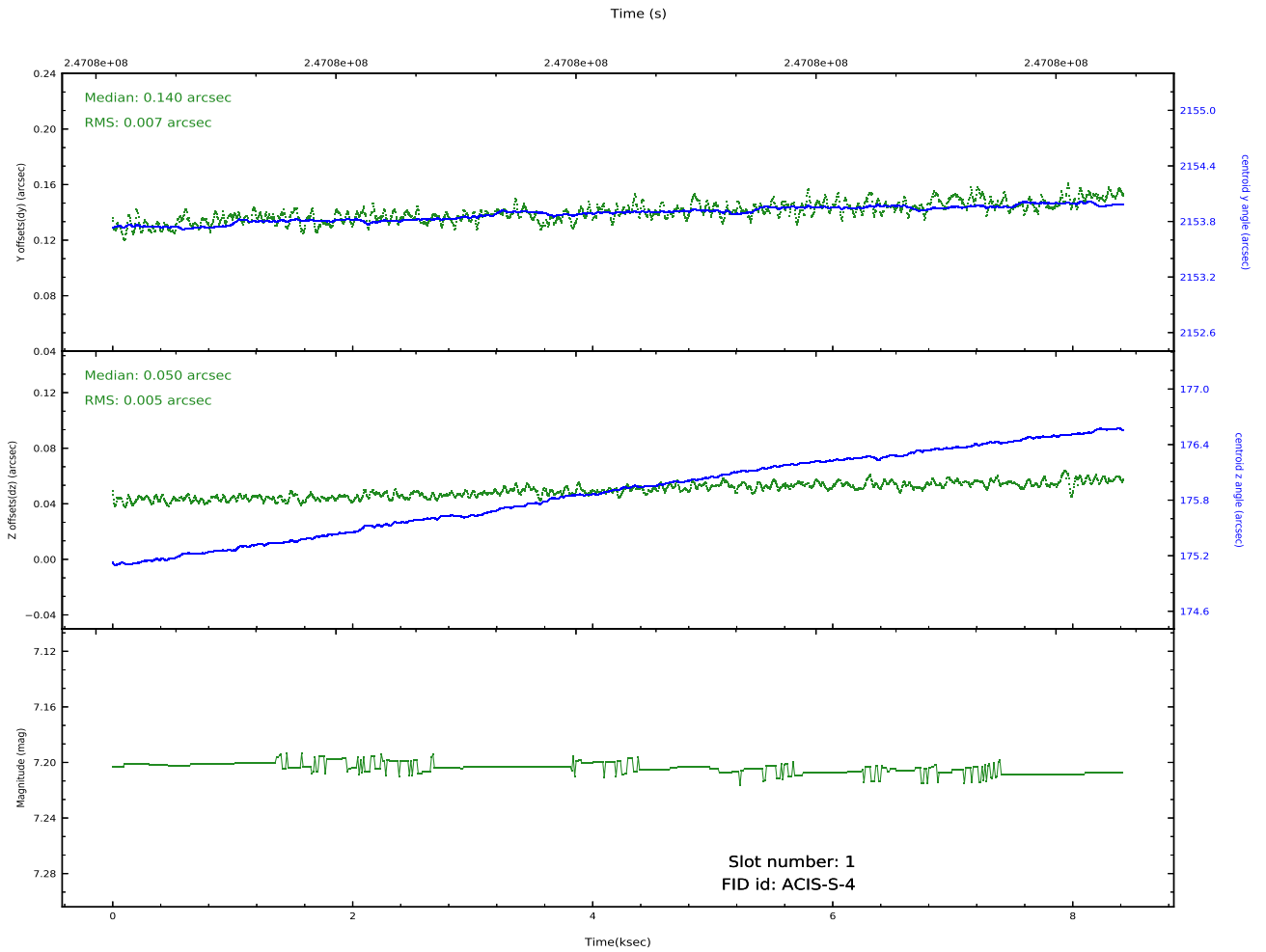
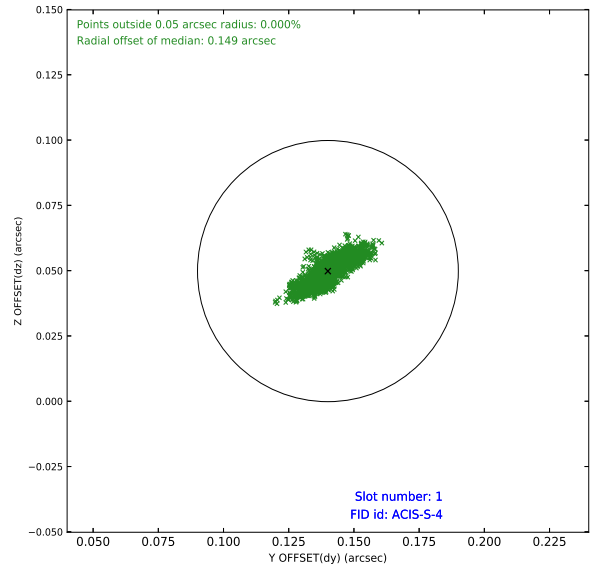
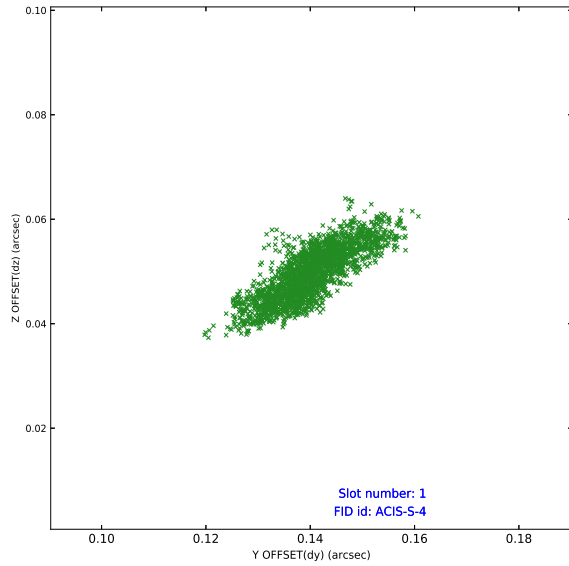
2.5.1 Slot 0



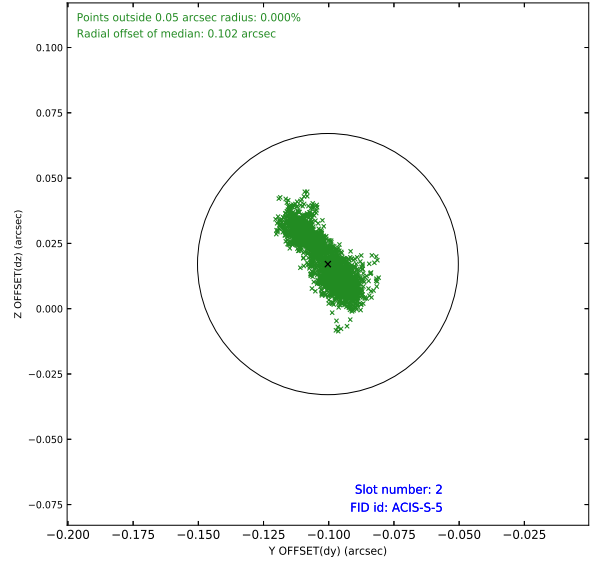
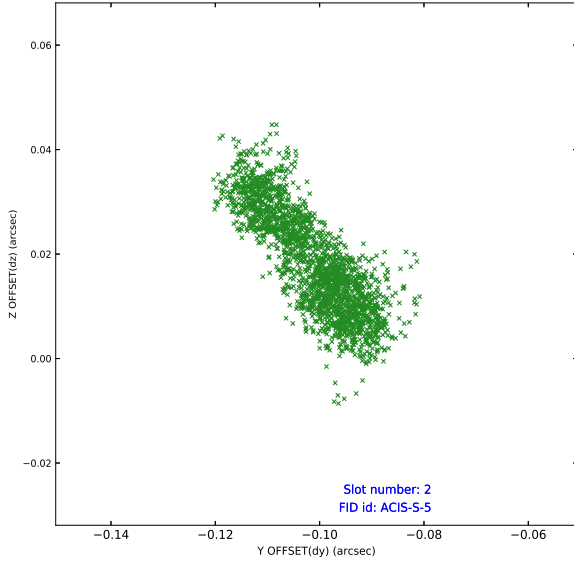
Time (s)



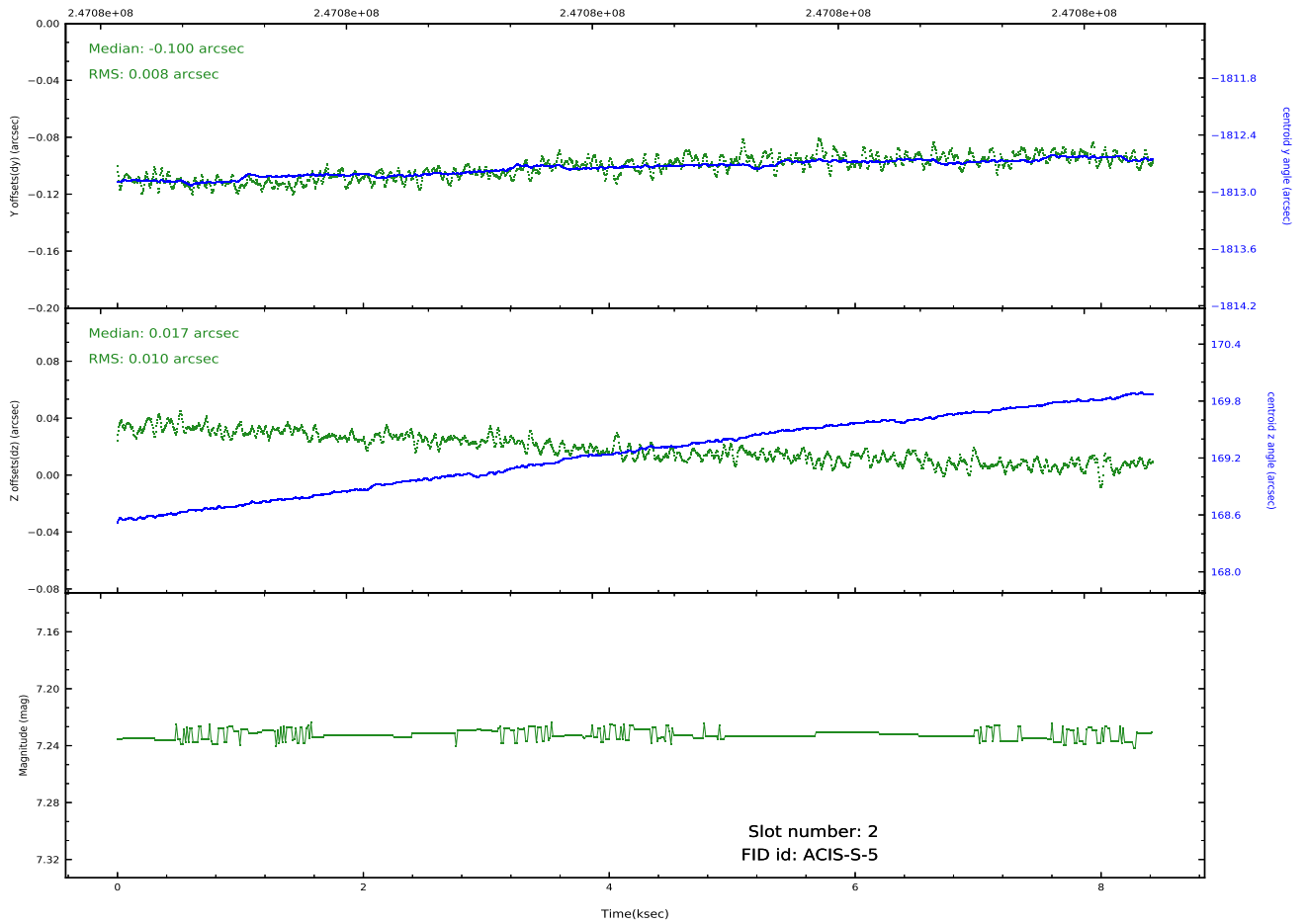
2.5.2 Slot 1



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.416499

A.2 Comments