

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4870 - L2 Version 4
Chandra X-Ray Center

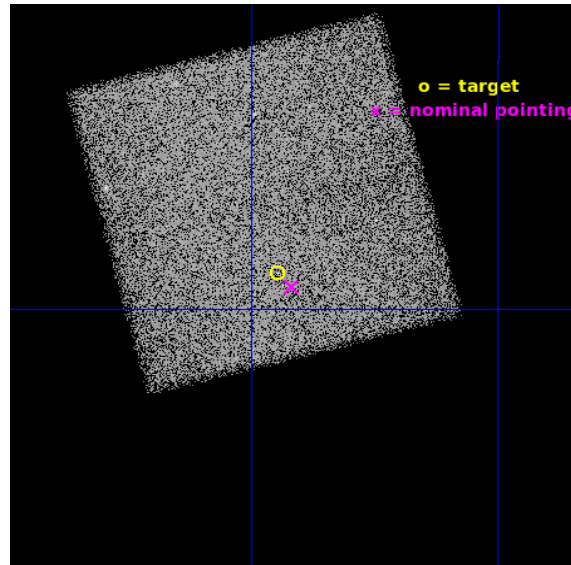
L2 Processing Date : Sep 24 2020

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

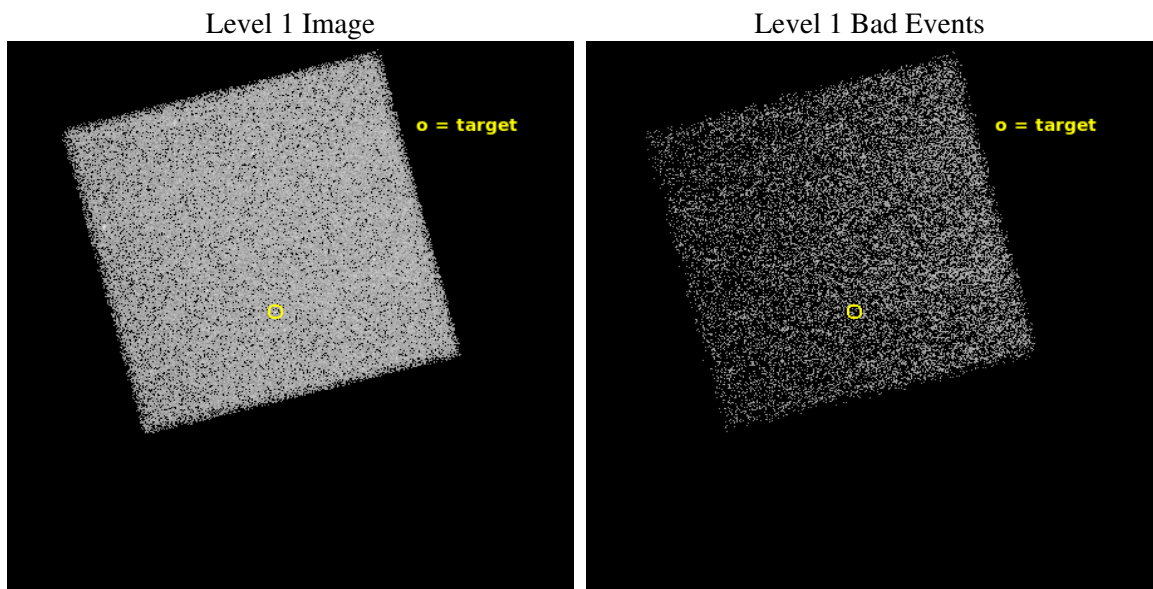
seq_num	700952	Sequence number
obs_id	4870	Observation id
title	UNCOVERING THE HIDDEN POPULATION OF BL LACS	Proposal title
observer	Dr Nicola Loaring	Principal investigator
object	2QZ J031056.9-305901	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	47.737083	Observer's specified target RA [deg]
dec_targ	-30.983694	Observer's specified target Dec [deg]
ra_nom	47.729511356989	Nominal RA [deg]
dec_nom	-30.989820859302	Nominal Dec [deg]
roll_nom	255.37000732122	Nominal Roll [deg]
revision	4	Processing version of data
ontime	15423.0	Sum of GTIs [s]
liveltime	15214.860705548	Livetime [s]
ontime7	15423.0	Sum of GTIs [s]
l2events	88660	Number of level 2 events



2 OBI

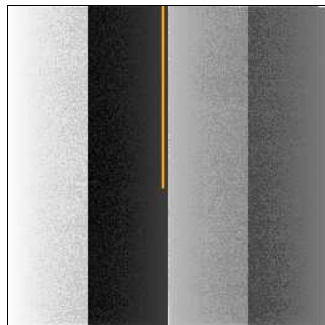
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	15423.0	Sum of GTIs [s]
caldsver	4.9.2	 	ontime7	15423.0	Sum of GTIs [s]
date	2020-09-24T18:33:46	Date and time of file creation	l1events	173130	Number of level 1 events
revision	4	Processing version of data			

2.1.4 Events

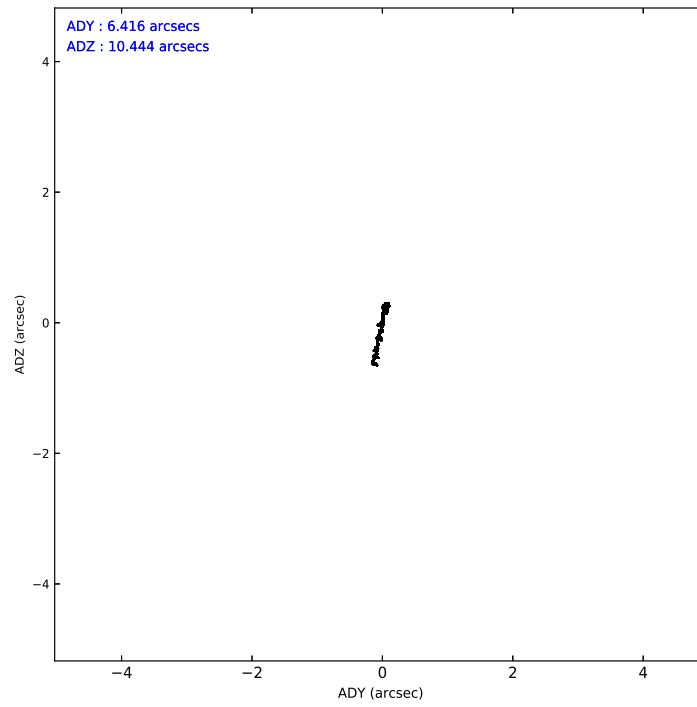
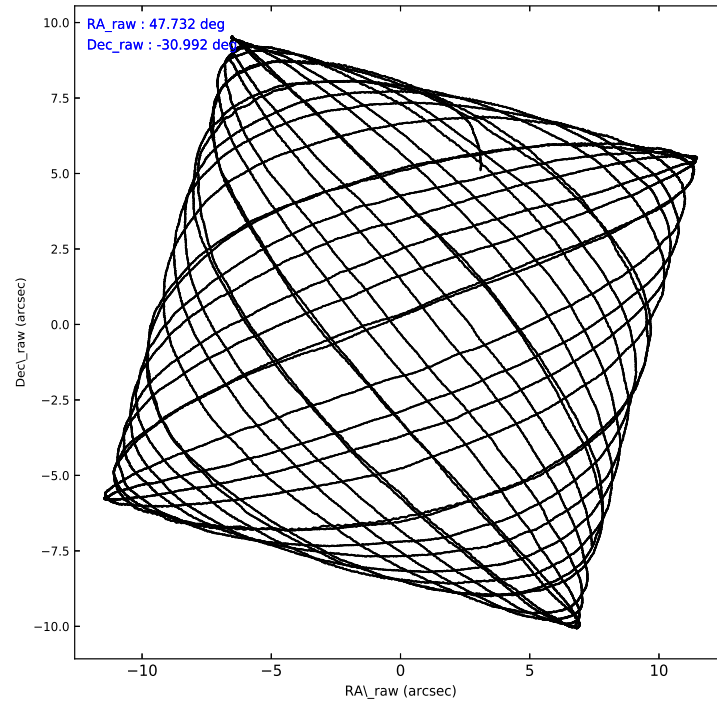
	ccd 7
level 1 events	173130
rejected events	82516
rejected %	47%

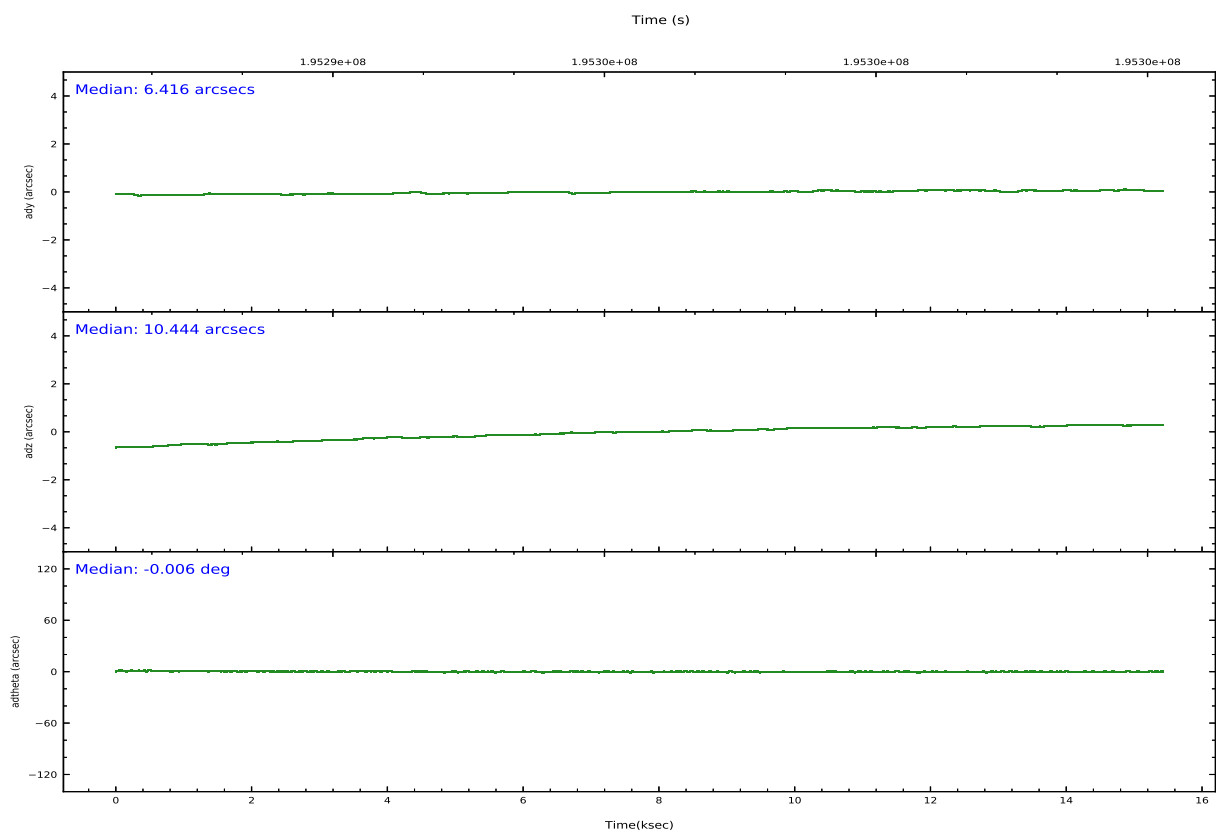
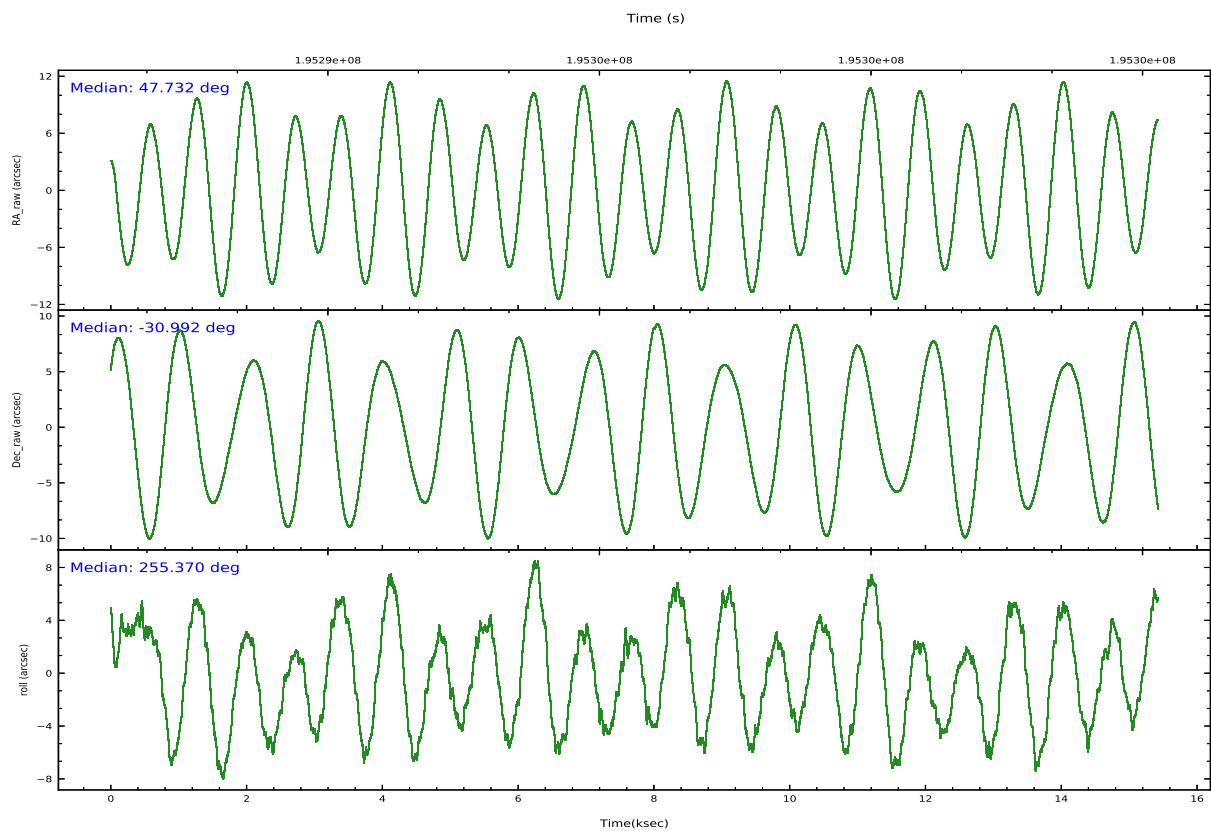
	ccd 7
grade 0 events	9439
	5%
grade 1 events	123
	0%
grade 2 events	17117
	9%
grade 3 events	7673
	4%
grade 4 events	7572
	4%
grade 5 events	13418
	7%
grade 6 events	49713
	28%
grade 7 events	68075
	39%

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	47.723533	47.729511356989	Subarray requested	NONE	NONE
[deg] Pointing Dec	-30.966320	-30.989820859302	Alternating exposures requested	N	N
[deg] Pointing Roll	255.206538	255.37000732122	[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)	195289230.184000	195288148.29698			
Observation start date	2004-03-10T06:59:26	2004-03-10T06:42:28			
[s] Observation end time (MET)	195304230.184000	195304758.42271			
Observation end date	2004-03-10T11:09:26	2004-03-10T11:19:18			
Read mode	TIMED	TIMED			

2.3 Aspect



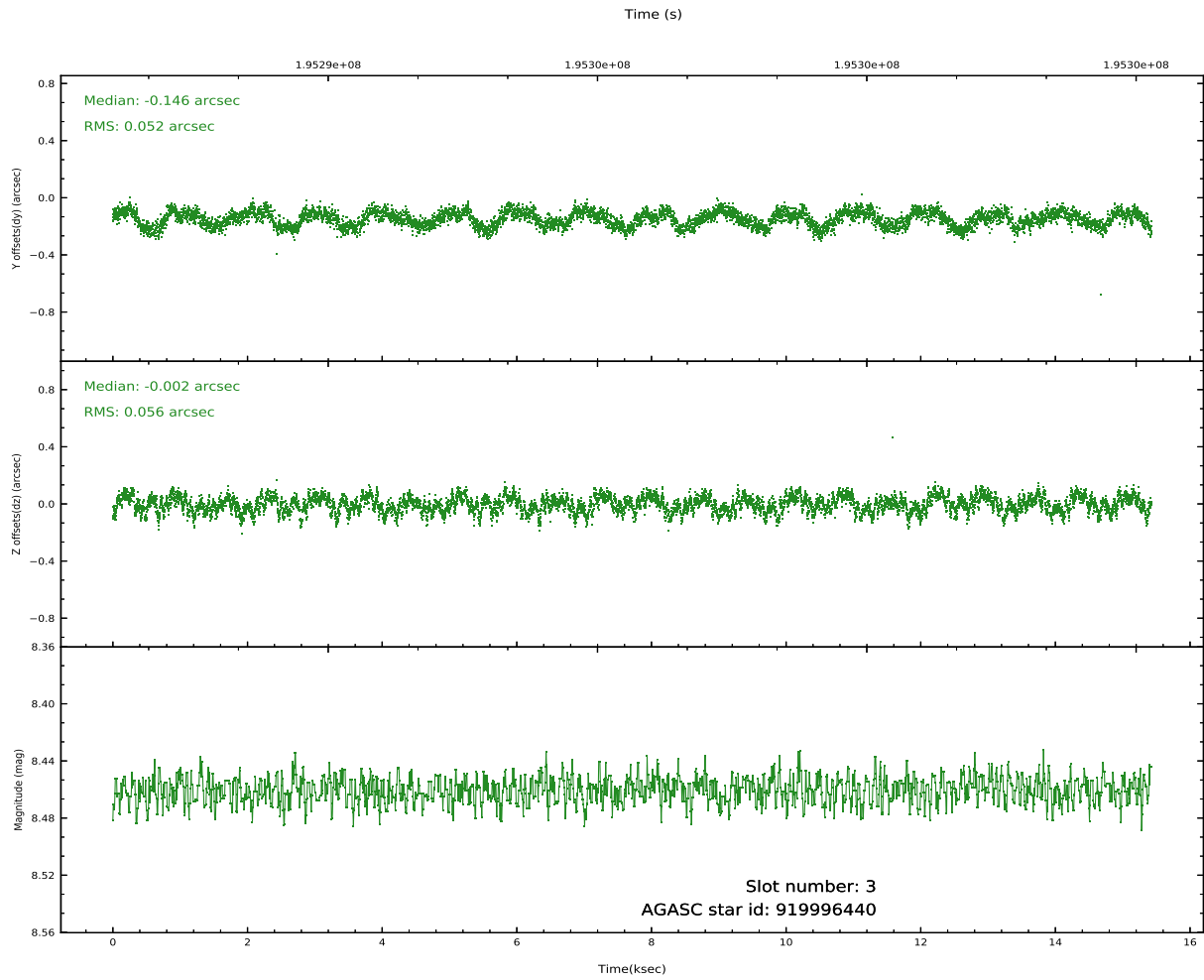
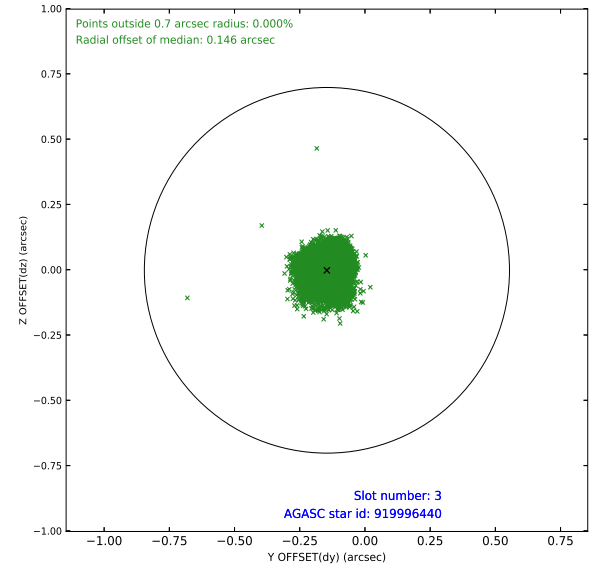
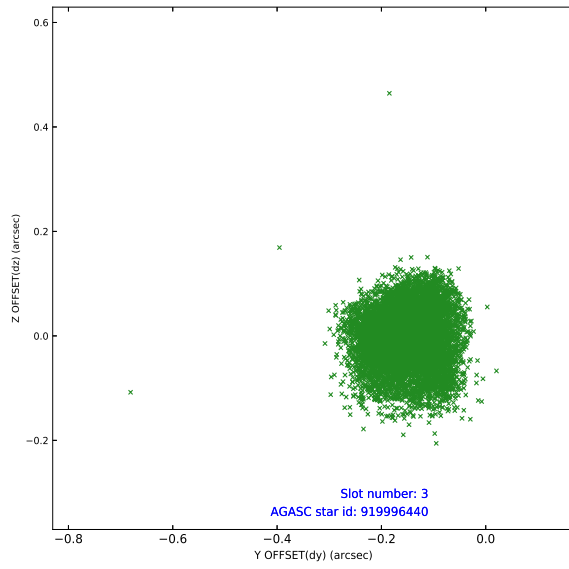


Slot Statistics

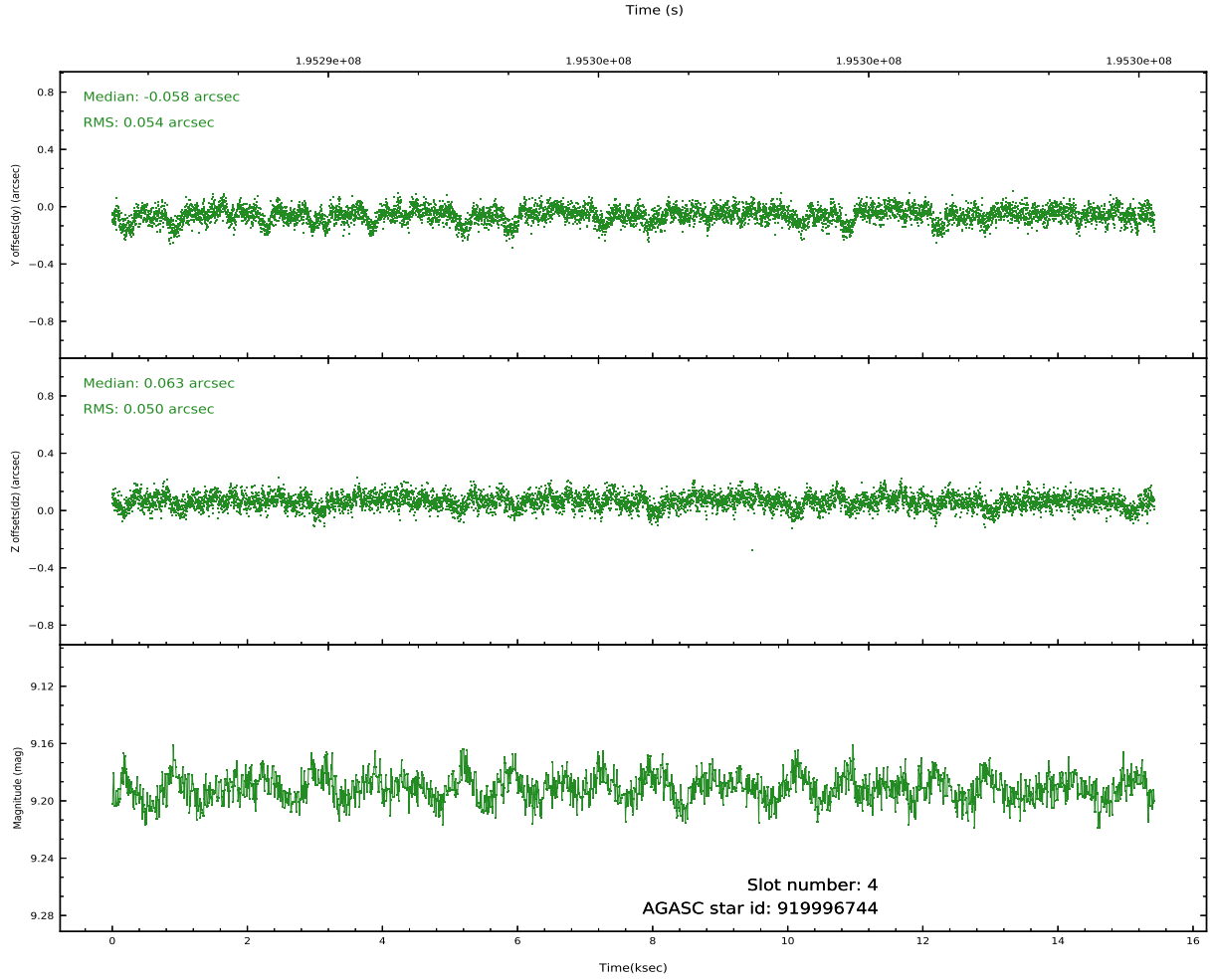
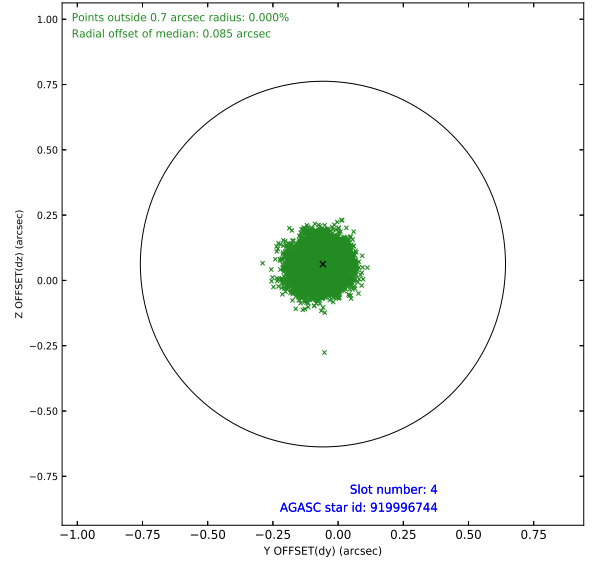
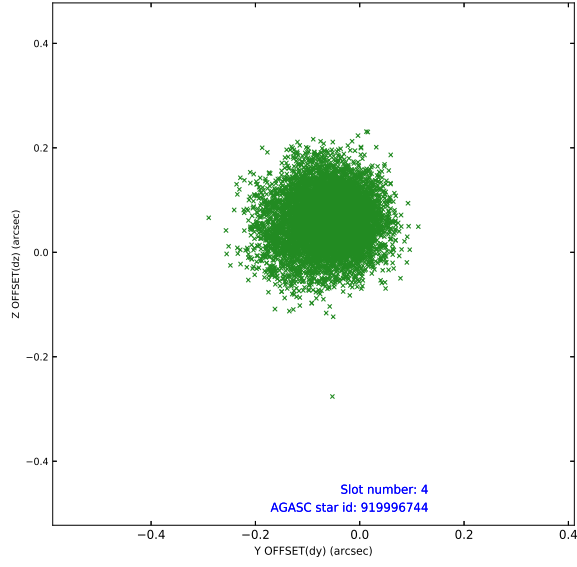
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	3763	1.000	-0.091	-0.057	0.008	0.014	0.000000	0.000000	-759.17	-1731
1	FID		ACIS-S-4	7.21	3763	1.000	0.143	0.059	0.007	0.012	0.000000	0.000000	2154.15	176
2	FID		ACIS-S-5	7.23	3763	1.000	-0.082	0.006	0.009	0.016	0.000000	0.000000	-1811.69	170
3	GUIDE	used	919996440	8.46	7525	1.000	-0.146	-0.002	0.083	0.123	47.692410	-30.544296	-1443.85	-481
4	GUIDE	used	919996744	9.19	7521	1.000	-0.058	0.063	0.079	0.129	47.799849	-30.501488	-1677.78	-198
5	GUIDE	used	920000504	9.21	7517	1.000	-0.017	-0.078	0.074	0.120	47.982704	-30.776523	-864.19	601
6	GUIDE	used	920000640	9.47	7519	1.000	0.127	0.038	0.087	0.141	47.594279	-31.126603	660.24	-237
7	GUIDE	used	919995320	8.04	7526	1.000	0.098	-0.016	0.057	0.090	47.390903	-31.253325	1262.43	-725

2.4 Star Slots

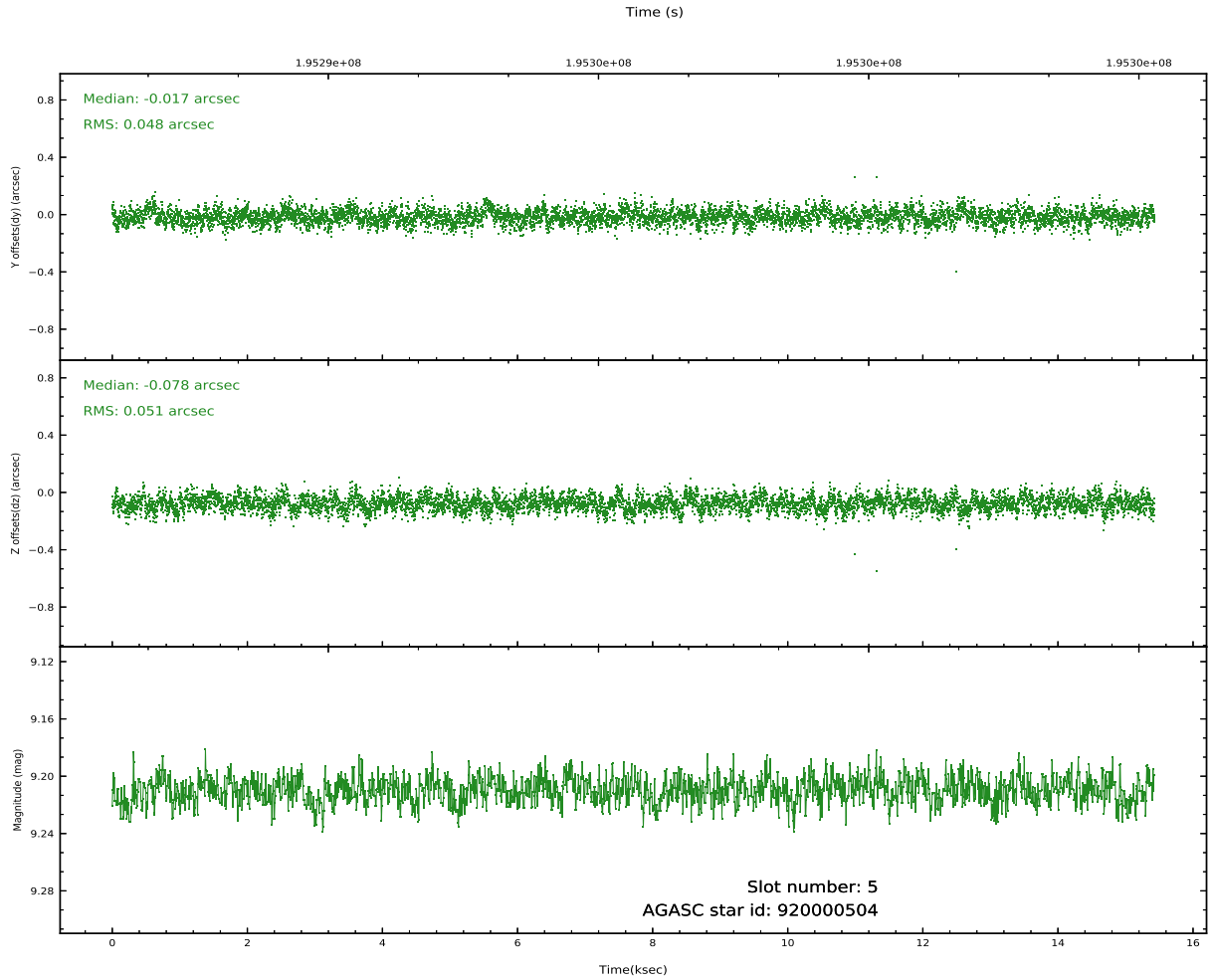
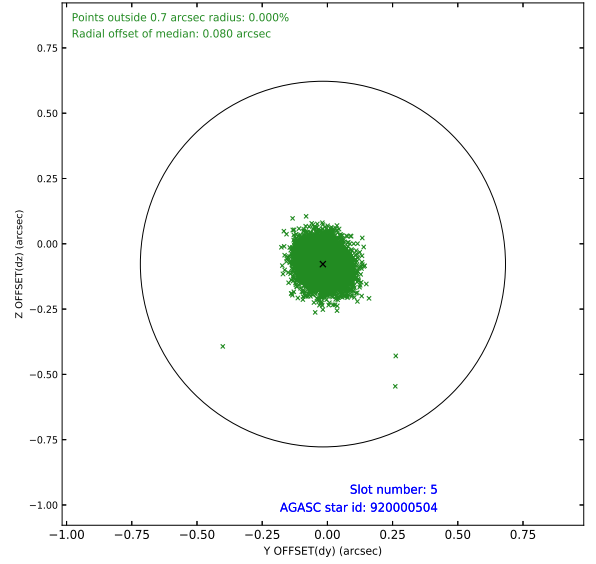
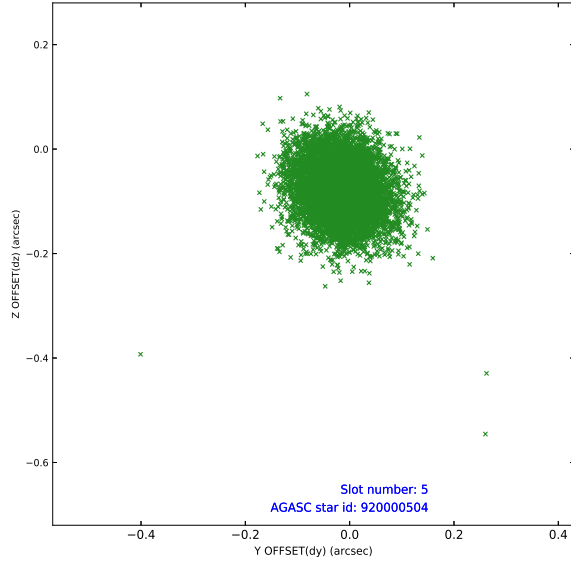
2.4.1 Slot 3



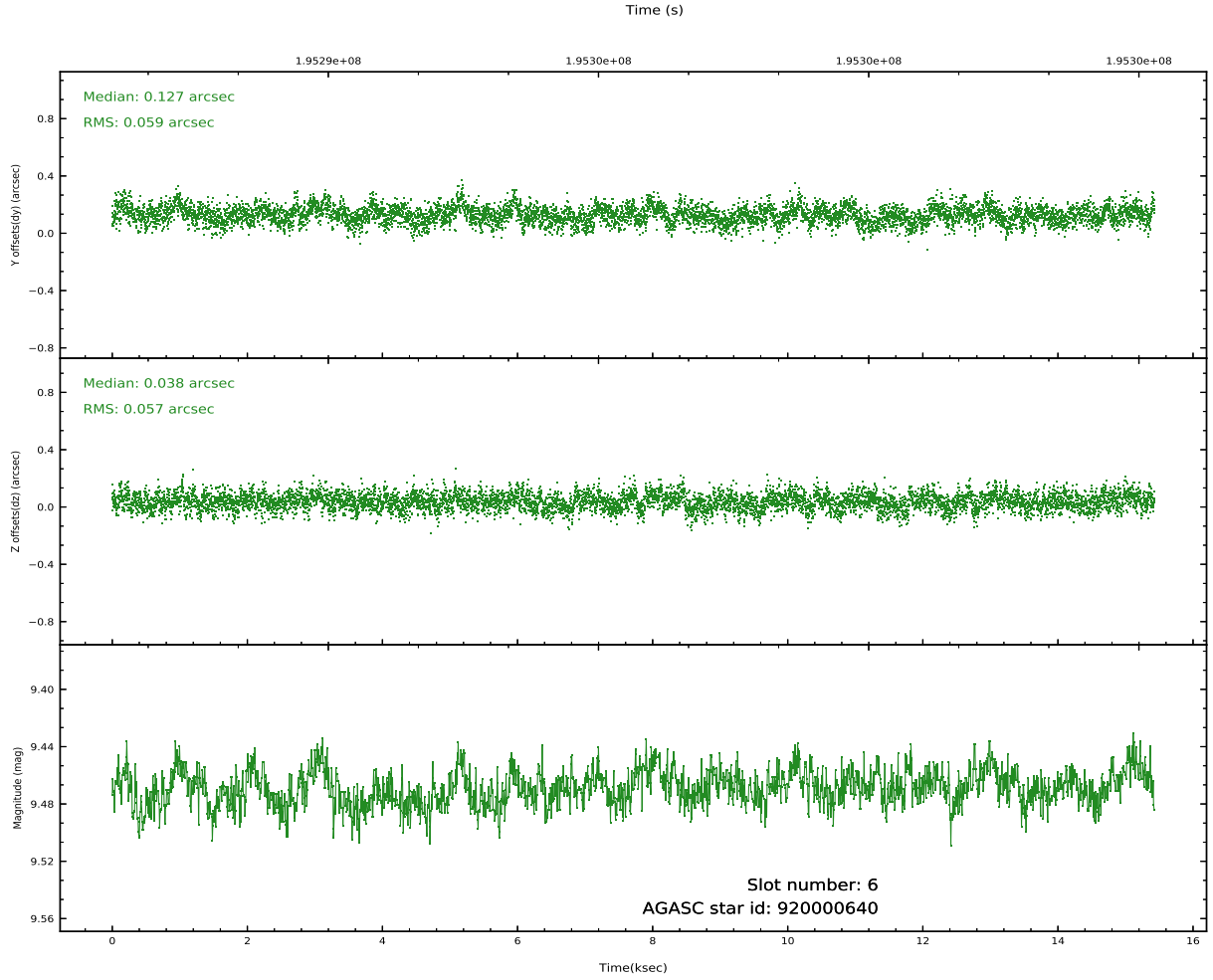
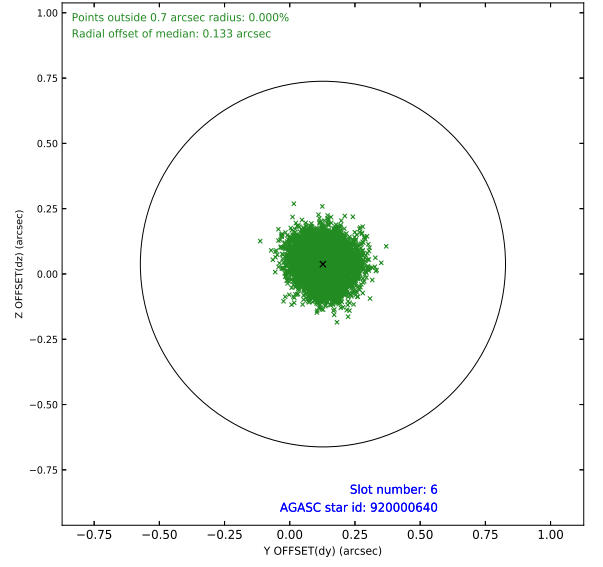
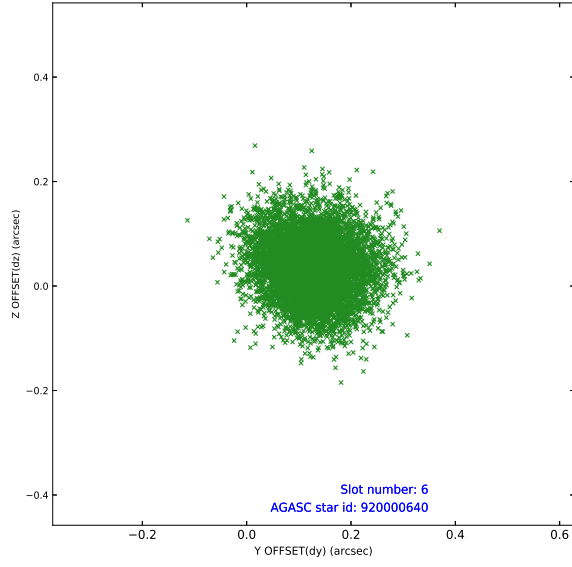
2.4.2 Slot 4



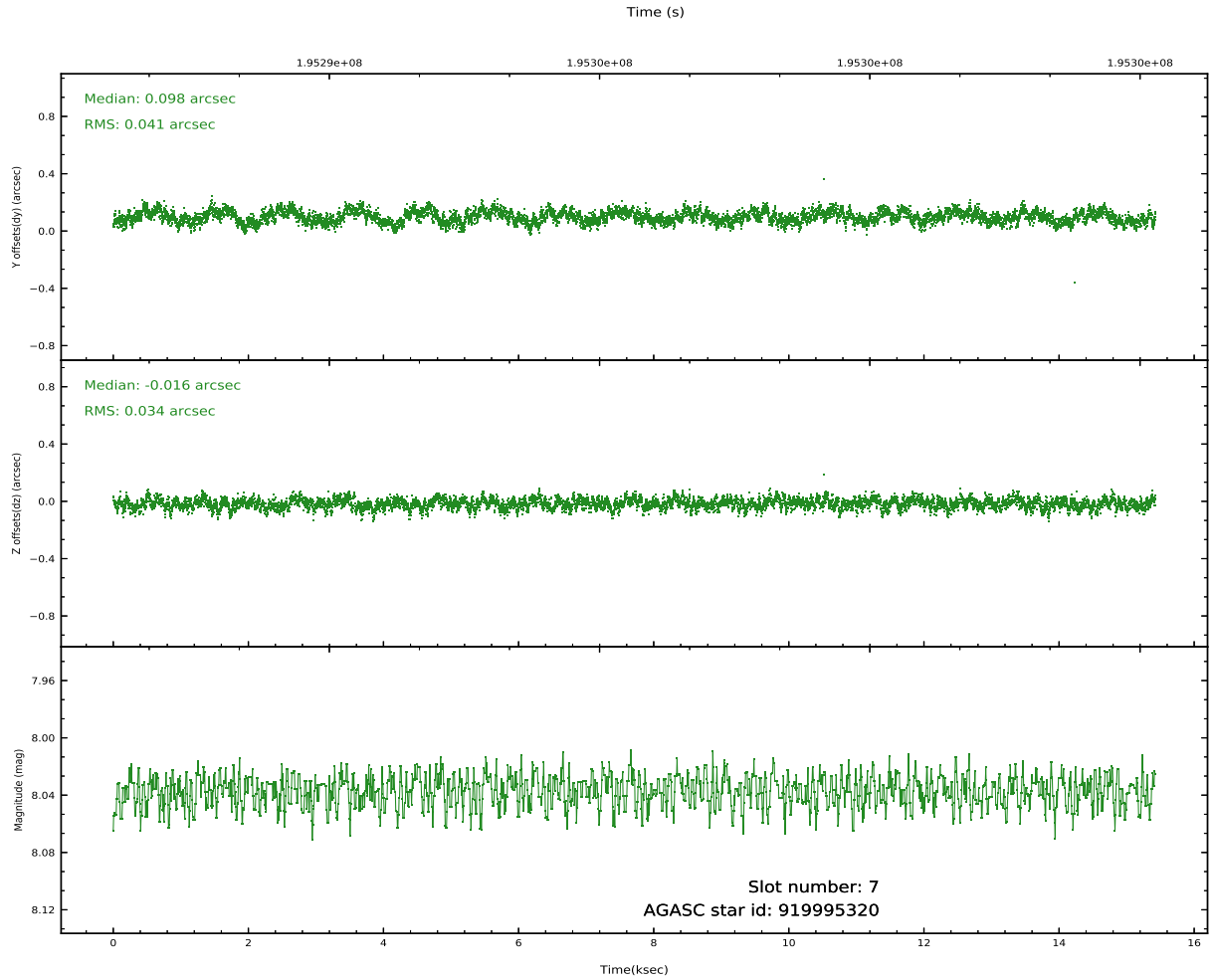
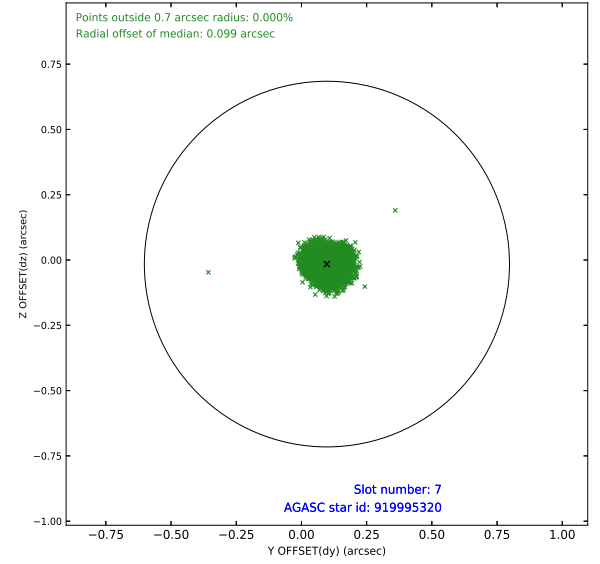
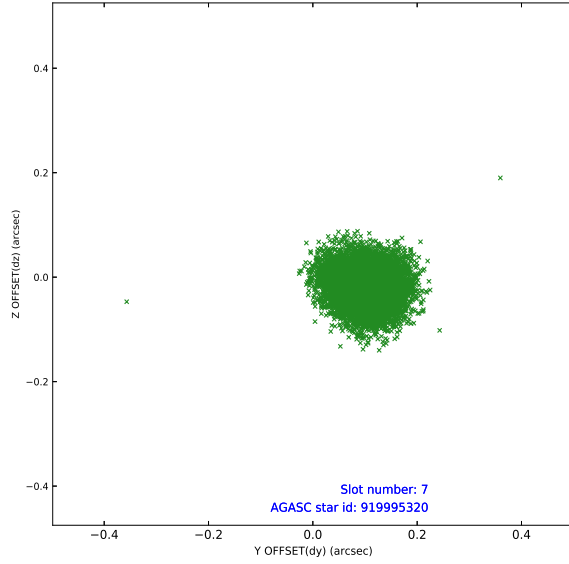
2.4.3 Slot 5



2.4.4 Slot 6

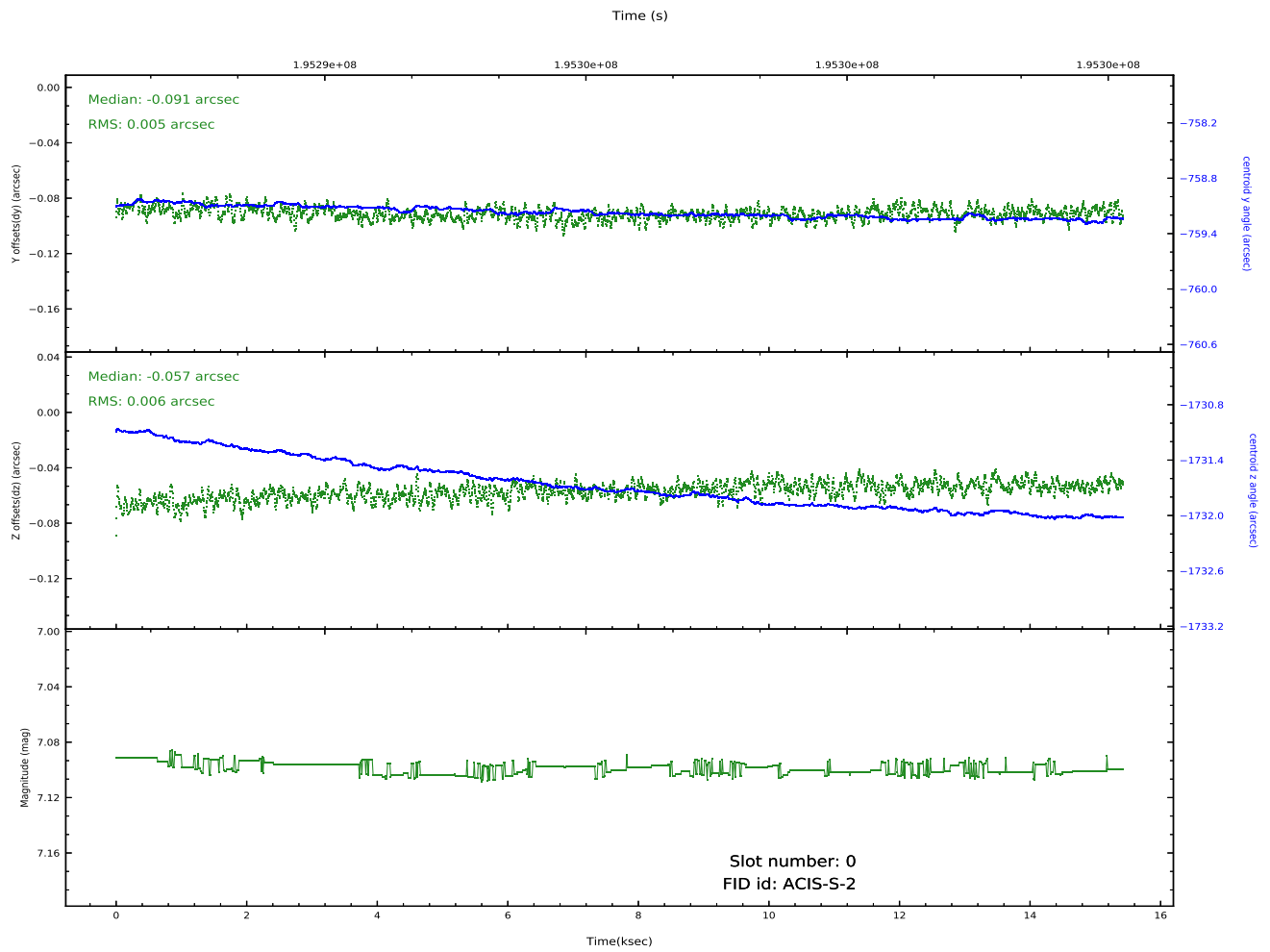
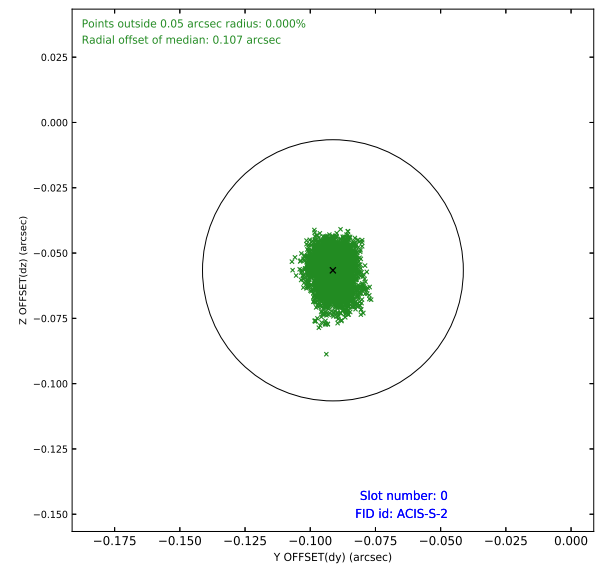
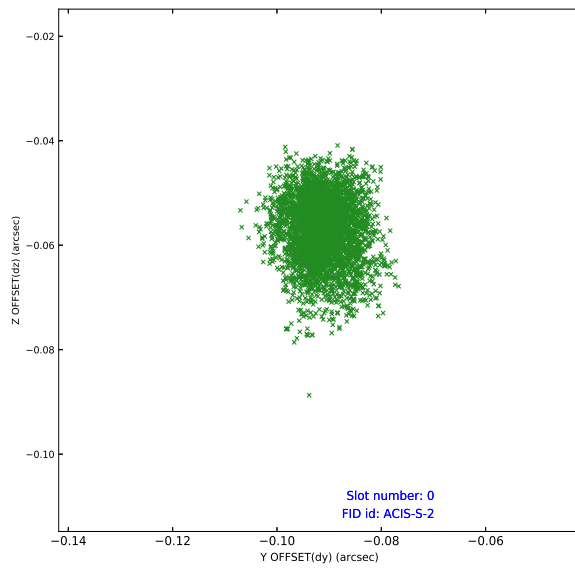


2.4.5 Slot 7

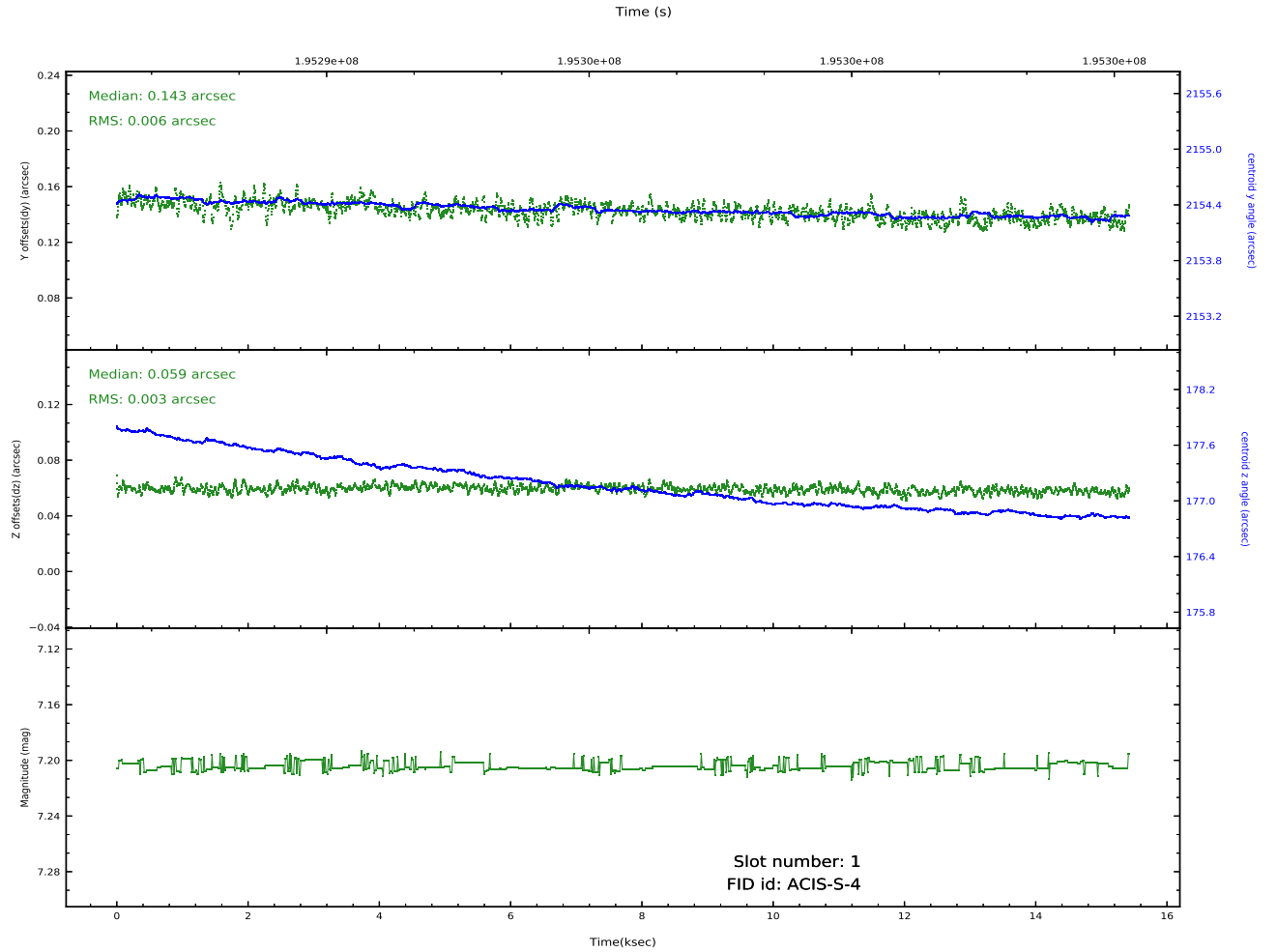
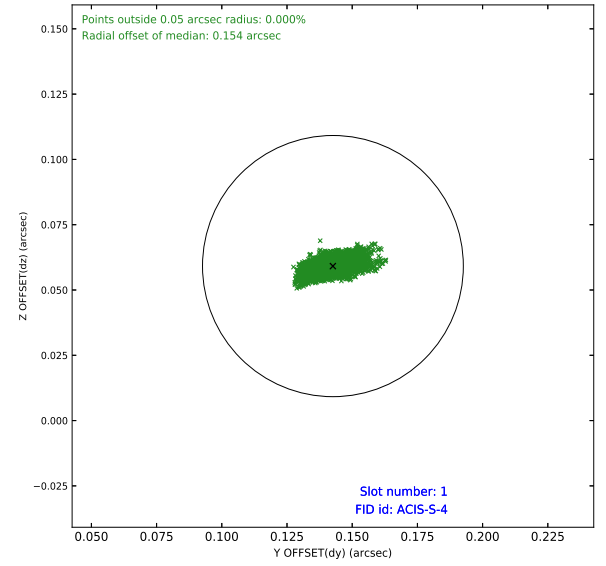
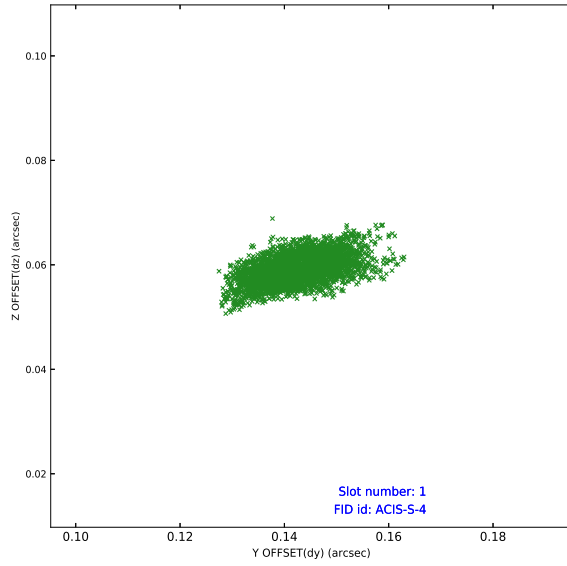


2.5 FID Slots

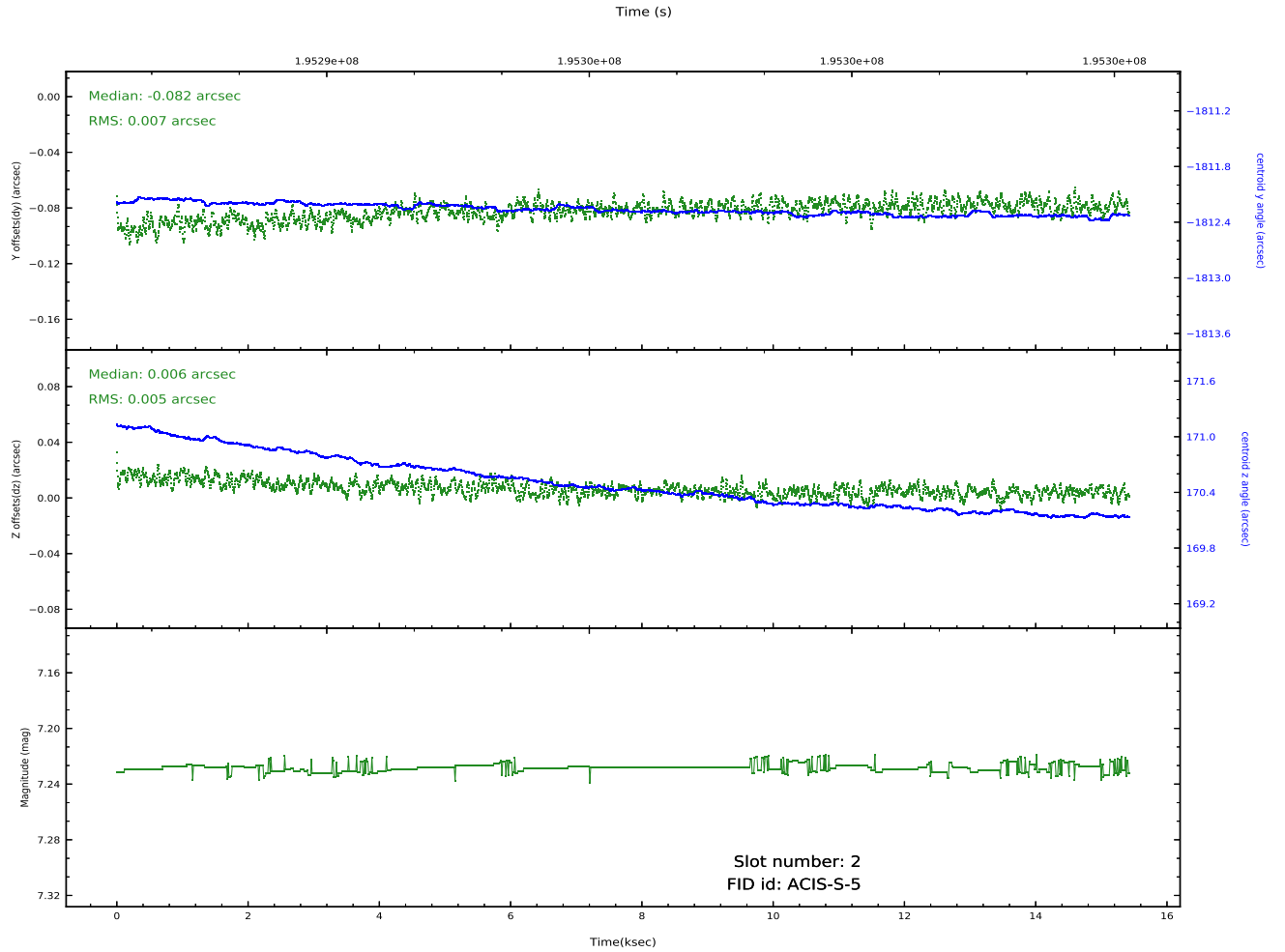
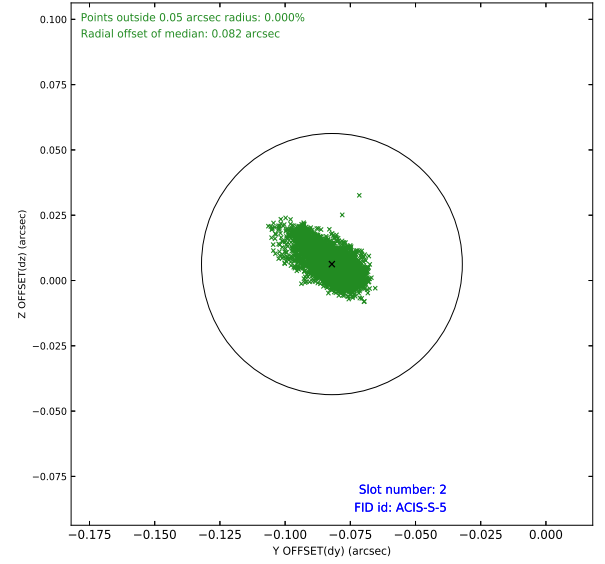
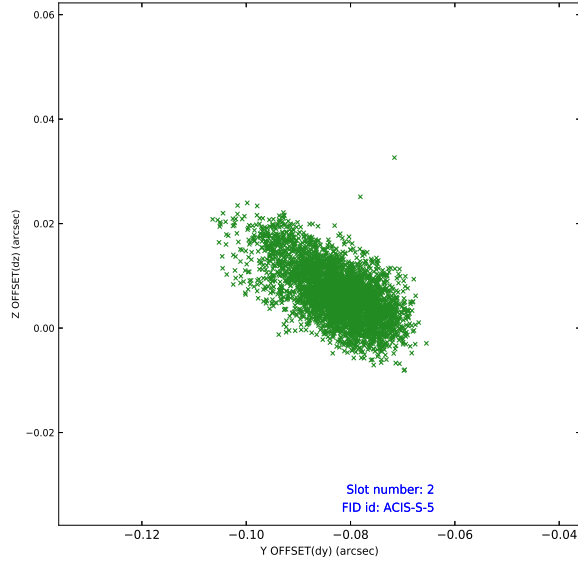
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.09.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.423

A.2 Comments