

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20762 - L2 Version 2
Chandra X-Ray Center

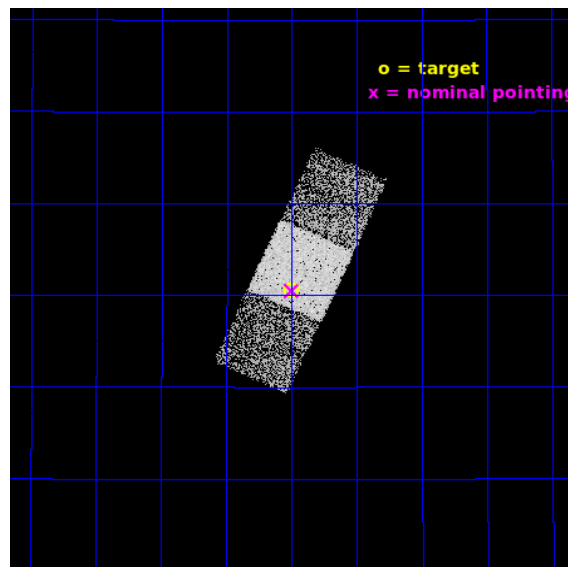
L2 Processing Date : Oct 24 2020

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1 Front

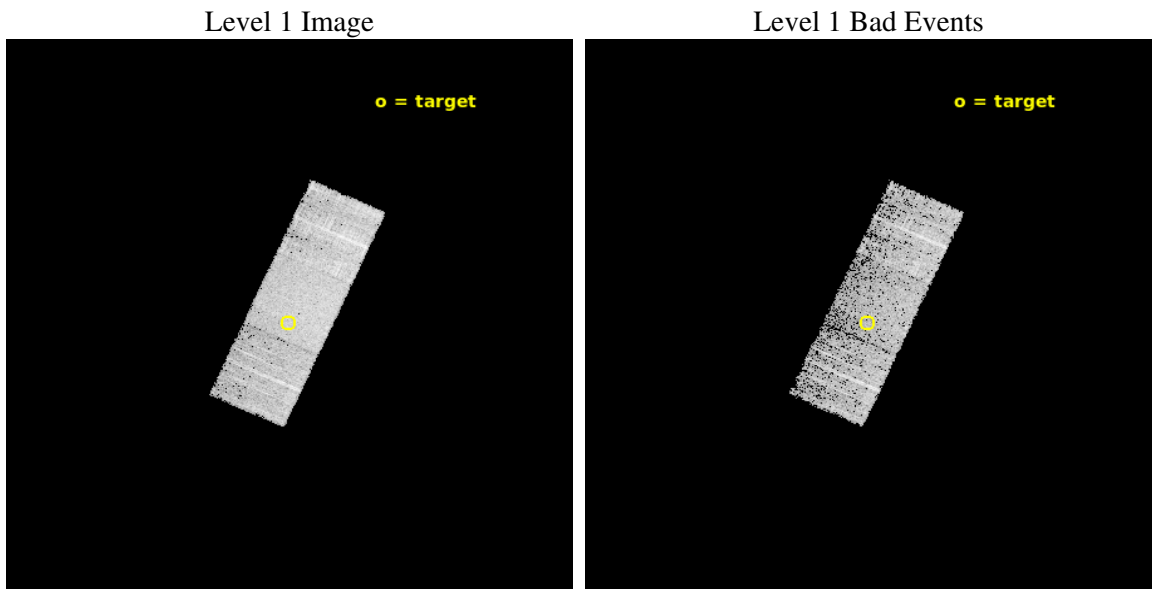
seq_num	703627	Sequence number
obs_id	20762	Observation id
title	A Chandra Snapshot Survey of Extremely Red Quasars from SDSS BOSS and WISE	Proposal title
observer	Gordon Garmire	Principal investigator
object	J0024+2450	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	6.00125	Observer's specified target RA [deg]
dec_targ	24.842194	Observer's specified target Dec [deg]
ra_nom	5.9997004108992	Nominal RA [deg]
dec_nom	24.841664460042	Nominal Dec [deg]
roll_nom	294.36194312592	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4112.8122119904	Sum of GTIs [s]
livetime	4059.0752926324	Livetime [s]
ontime6	4112.7711720467	Sum of GTIs [s]
ontime7	4112.8122119904	Sum of GTIs [s]
ontime8	4112.7301319838	Sum of GTIs [s]
l2events	22123	Number of level 2 events



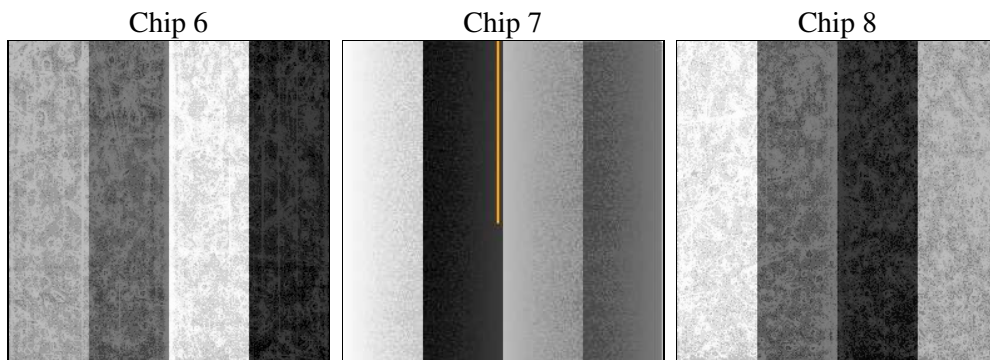
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	4112.8122119904	Sum of GTIs [s]
caldsver	4.9.3	 	ontime6	4112.7711720467	Sum of GTIs [s]
date	2020-10-24T05:05:27	Date and time of file creation	ontime7	4112.8122119904	Sum of GTIs [s]
revision	2	Processing version of data	ontime8	4112.7301319838	Sum of GTIs [s]
			l1events	103299	Number of level 1 events

2.1.4 Events

	ccd 6	ccd 7	ccd 8
level 1 events	27469	37040	38790
rejected events	24139	20674	28258
rejected %	87%	55%	72%

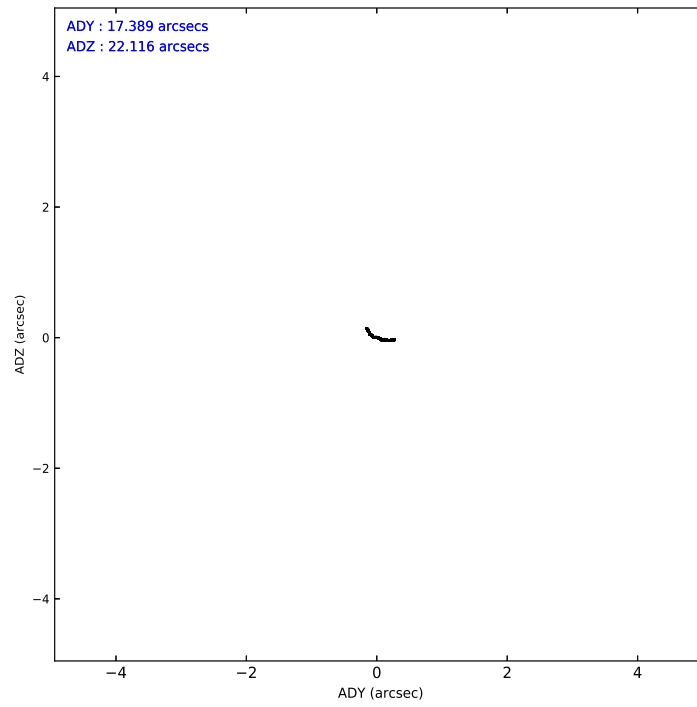
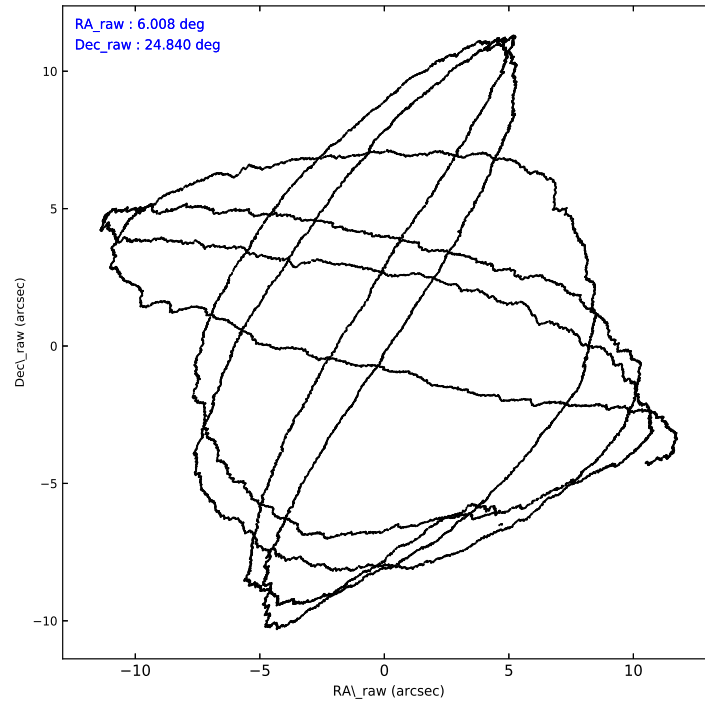
	ccd 6	ccd 7	ccd 8
grade 0 events	1065	1390	3058
	3%	3%	7%
grade 1 events	20	45	35
	0%	0%	0%
grade 2 events	799	3452	2580
	2%	9%	6%
grade 3 events	329	1286	1083
	1%	3%	2%
grade 4 events	365	1321	995
	1%	3%	2%
grade 5 events	1386	3647	2142
	5%	9%	5%
grade 6 events	778	8937	2831
	2%	24%	7%
grade 7 events	22727	16962	26066
	82%	45%	67%

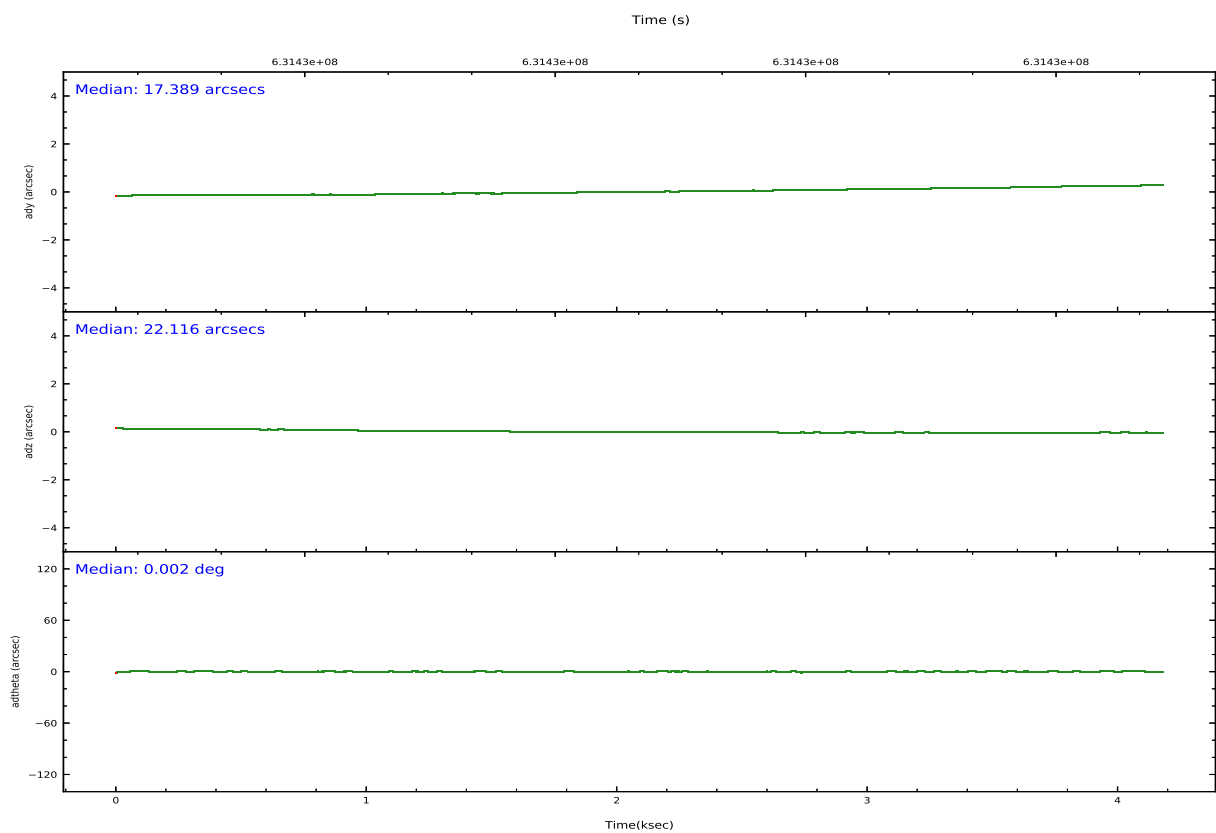
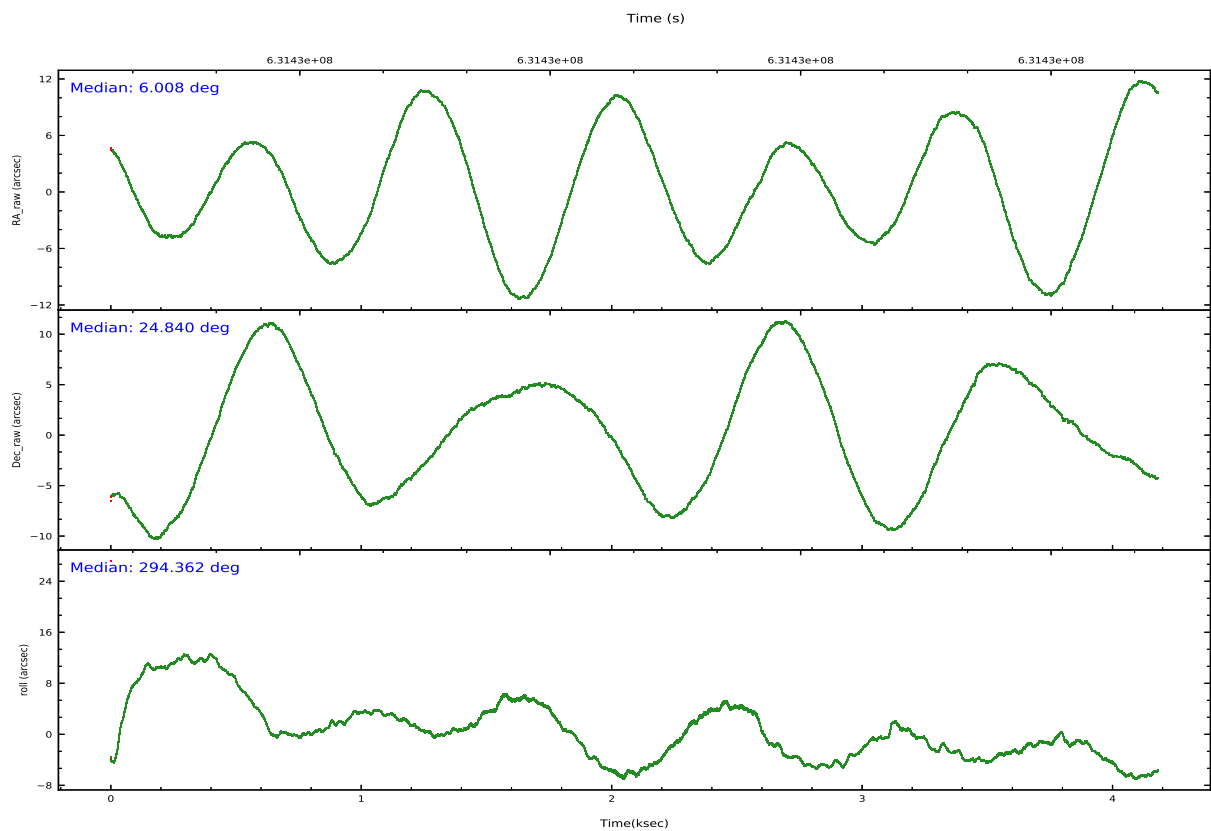
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-678	ACIS-678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	5.983544	5.9997004108992
[deg] Pointing Dec	24.855434	24.841664460042
[deg] Pointing Roll	294.225855	294.36194312592
[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)	631427428.184000	631425875.2306499
Observation start date	2018-01-04T04:29:19	2018-01-04T04:04:35
[s] Observation end time (MET)	631431428.184000	631432169.24352
Observation end date	2018-01-04T05:35:59	2018-01-04T05:49:29
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar version number	8	8
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	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



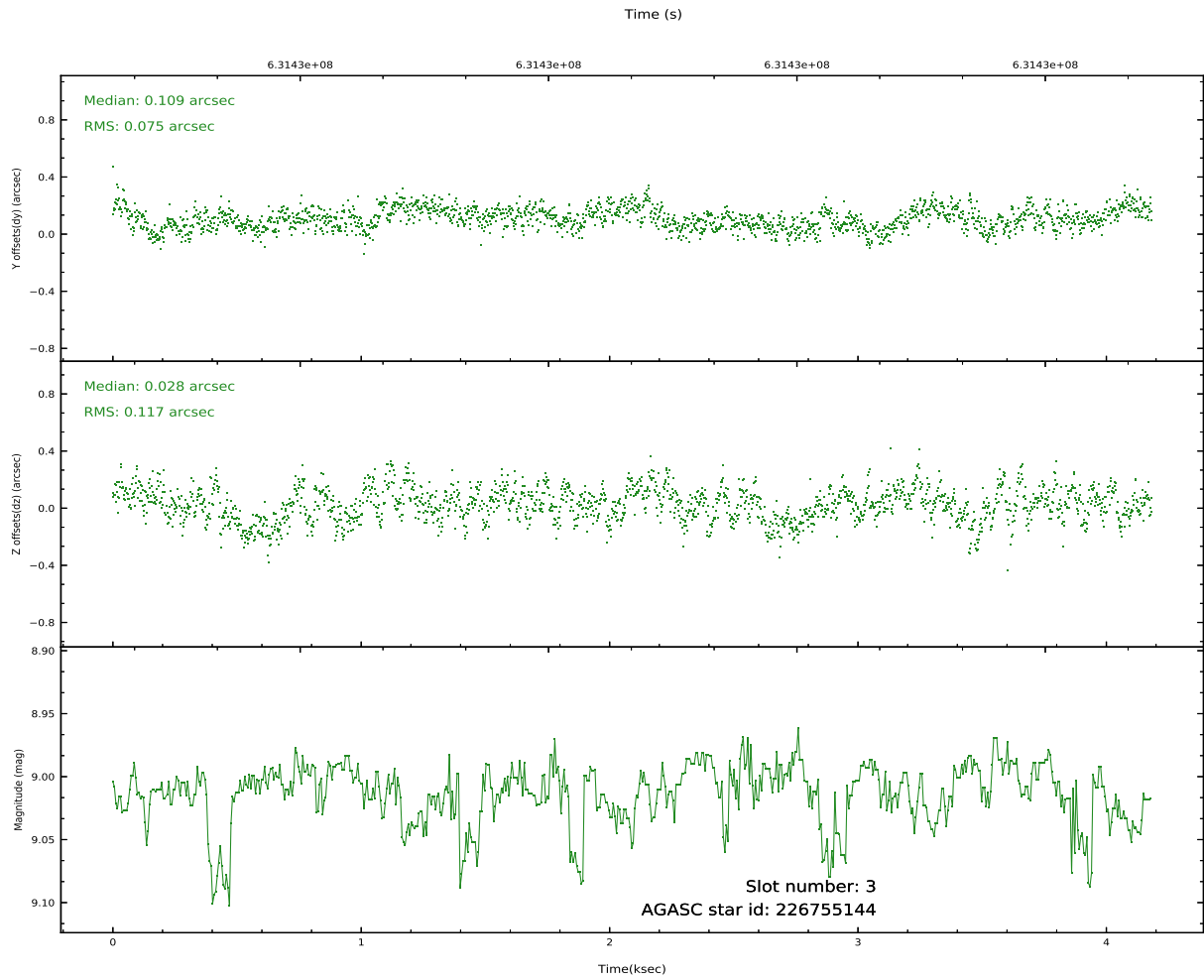
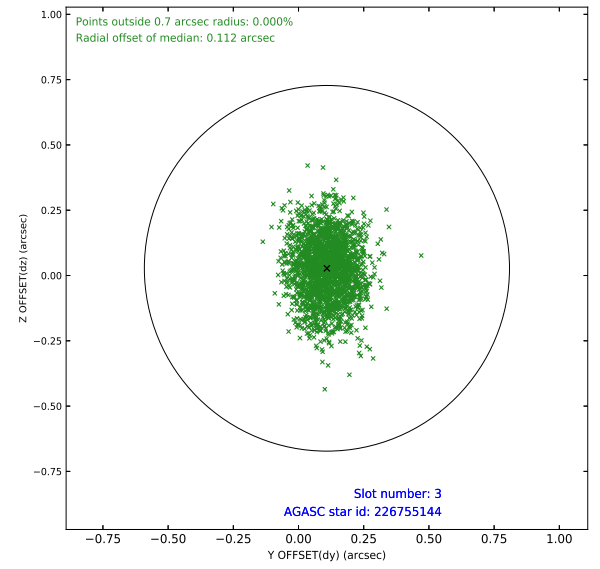
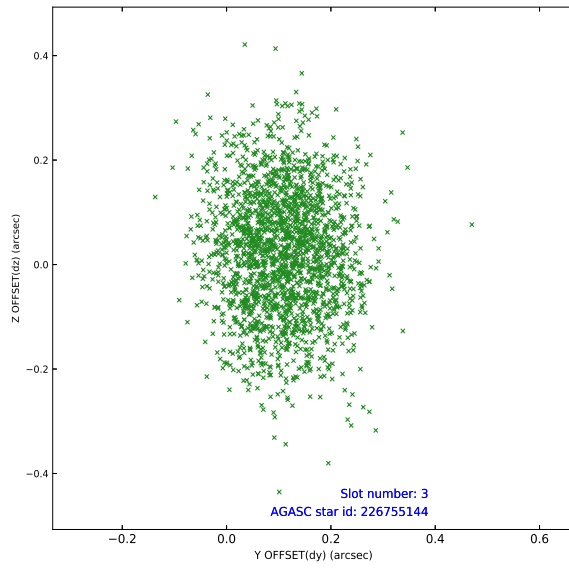


Slot Statistics

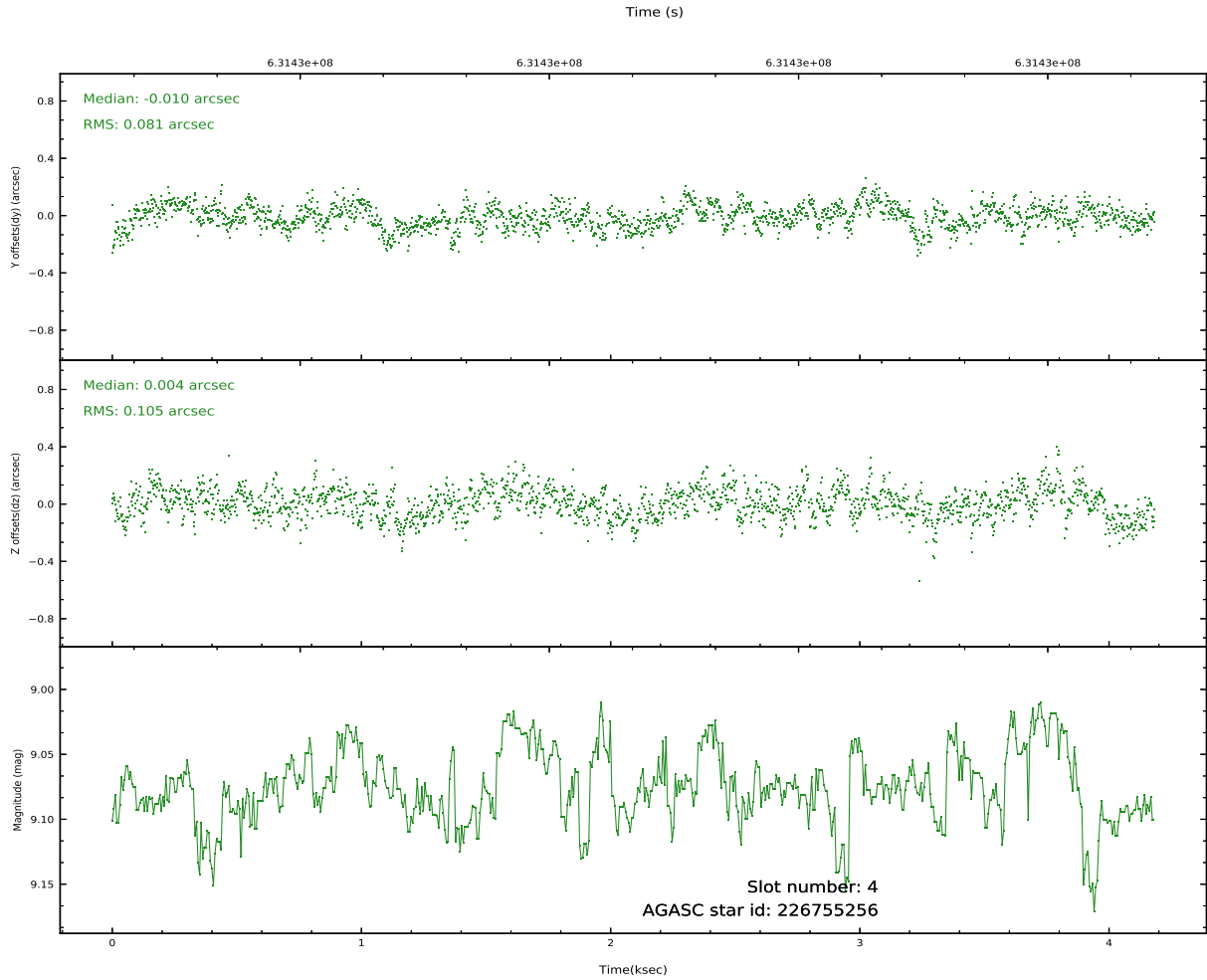
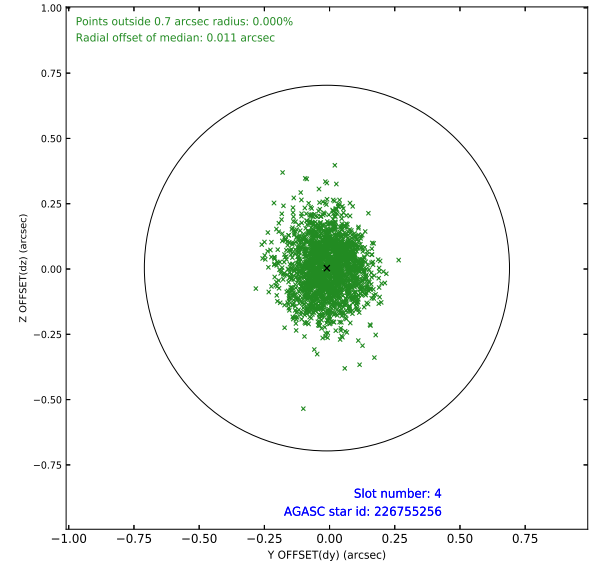
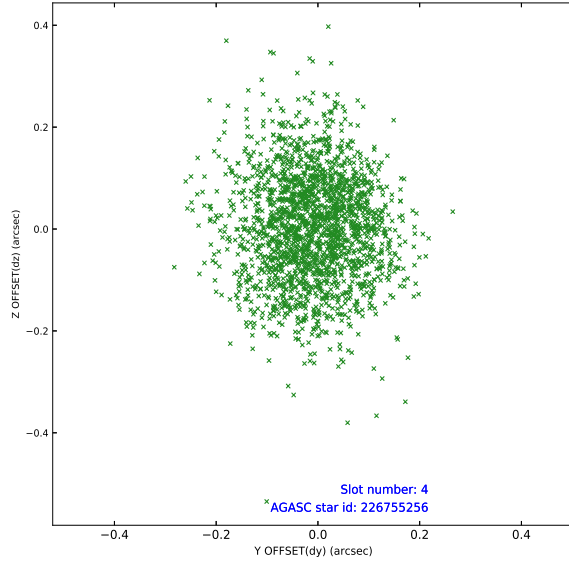
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.11	1021	1.000	0.301	-0.118	0.009	0.014	0.000000	0.000000	925.65	-1739
1	FID		ACIS-S-4	7.13	1020	1.000	0.016	-0.058	0.007	0.012	0.000000	0.000000	2143.84	162
2	FID		ACIS-S-5	7.13	1020	1.000	-0.344	0.189	0.010	0.017	0.000000	0.000000	-1821.72	158
3	GUIDE	used	226755144	9.01	2036	1.000	0.109	0.028	0.148	0.242	5.263892	24.965397	-1329.67	-1975
4	GUIDE	used	226755256	9.08	2039	1.000	-0.010	0.004	0.141	0.225	5.468766	24.814401	-558.57	-1594
5	GUIDE	used	226886024	8.14	2041	1.000	-0.009	-0.082	0.112	0.185	6.276796	24.575235	1312.84	461
6	GUIDE	used	226890136	7.48	2041	1.000	0.010	0.094	0.128	0.218	6.591703	24.734950	1208.26	1637
7	GUIDE	used	226894808	8.03	2040	1.000	-0.099	-0.038	0.109	0.195	5.676972	24.568976	529.15	-1337

2.4 Star Slots

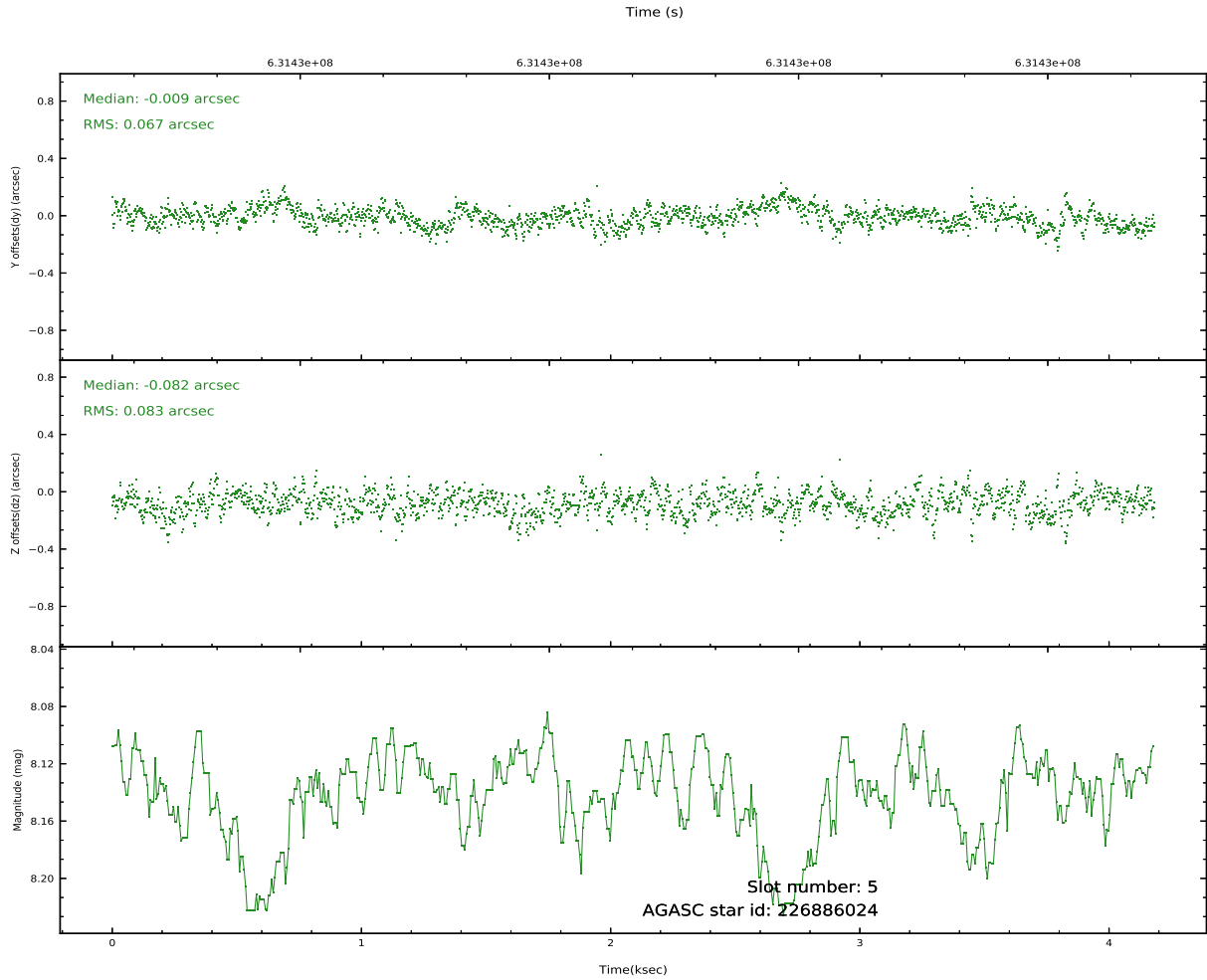
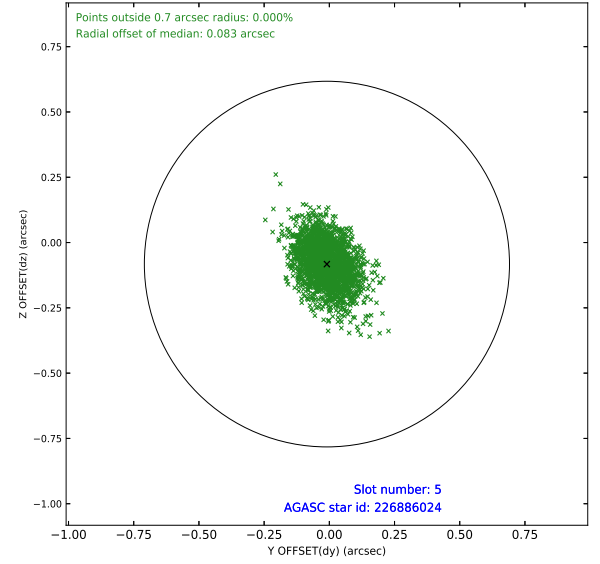
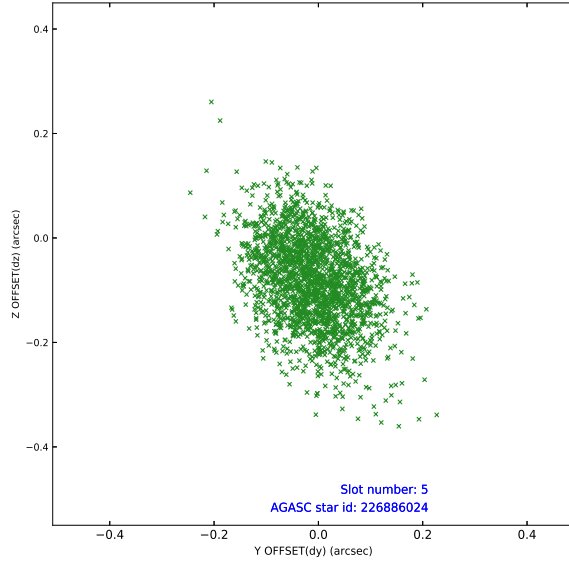
2.4.1 Slot 3



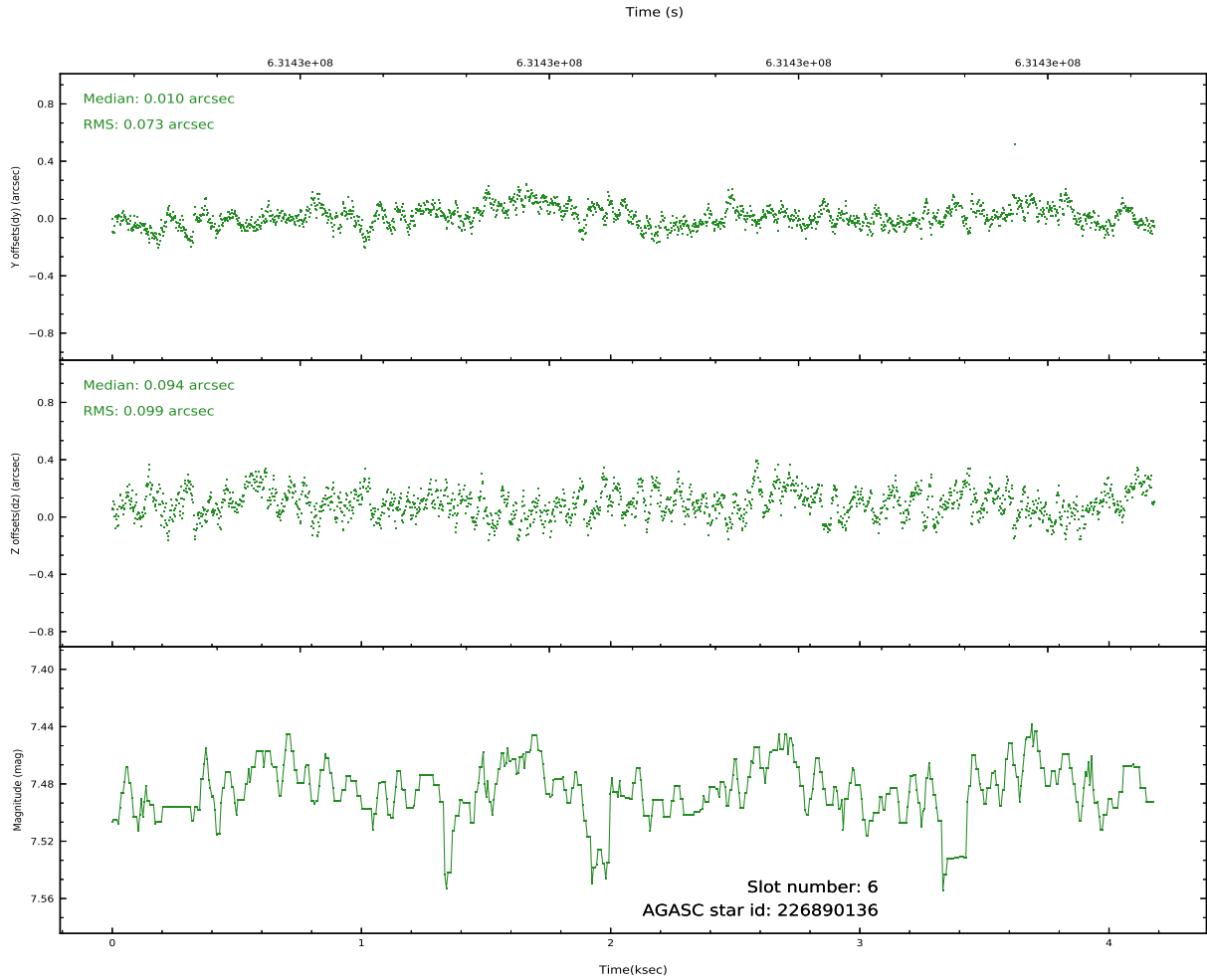
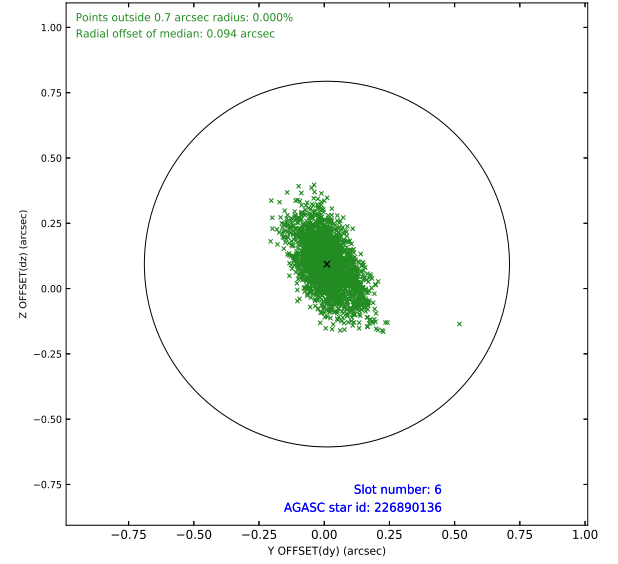
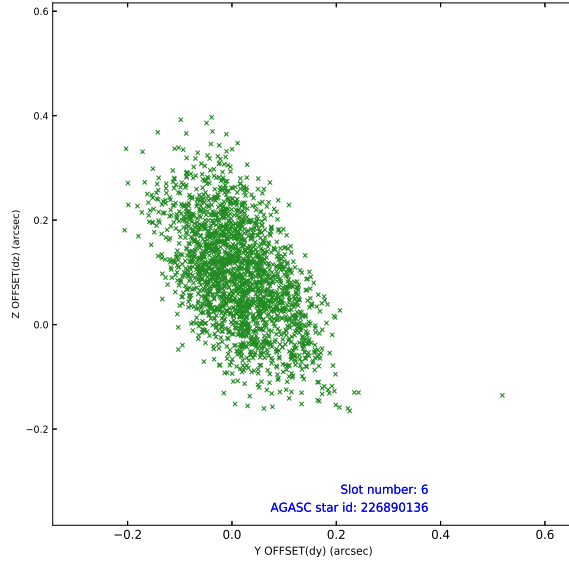
2.4.2 Slot 4



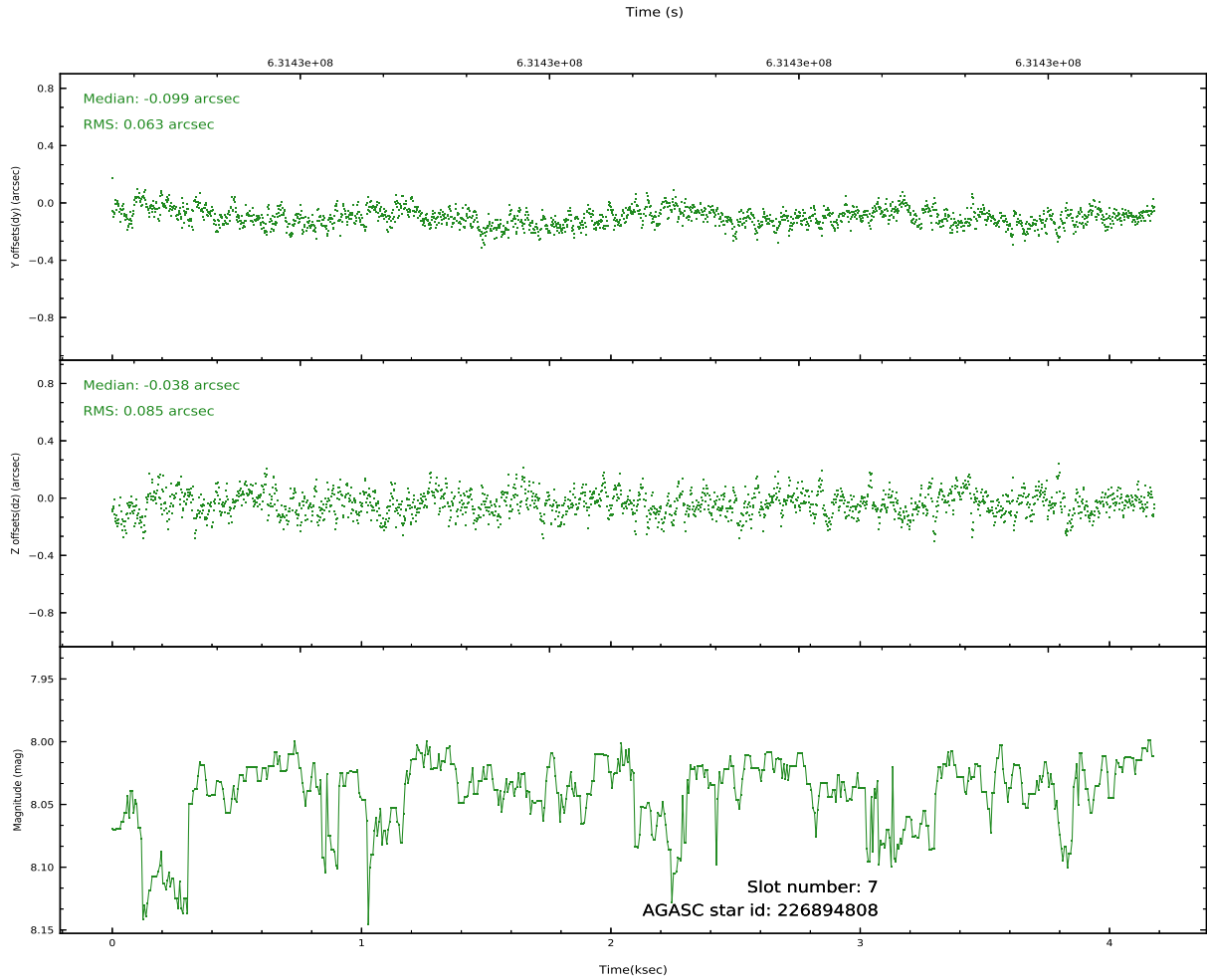
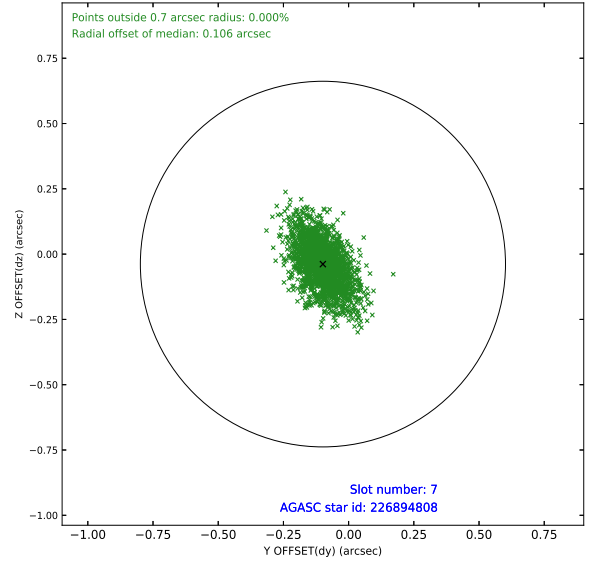
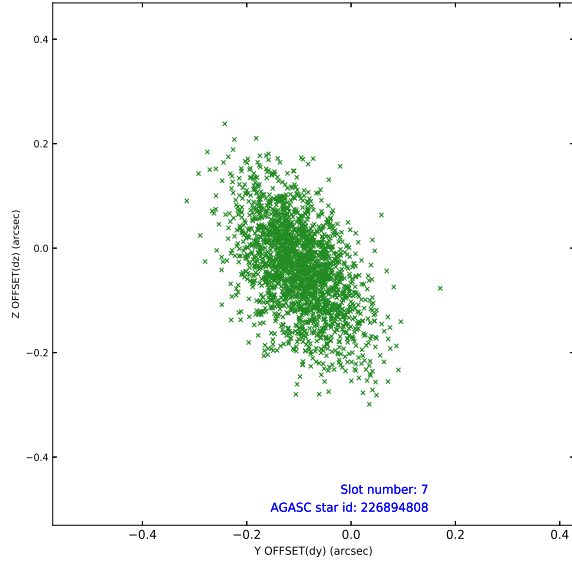
2.4.3 Slot 5



2.4.4 Slot 6

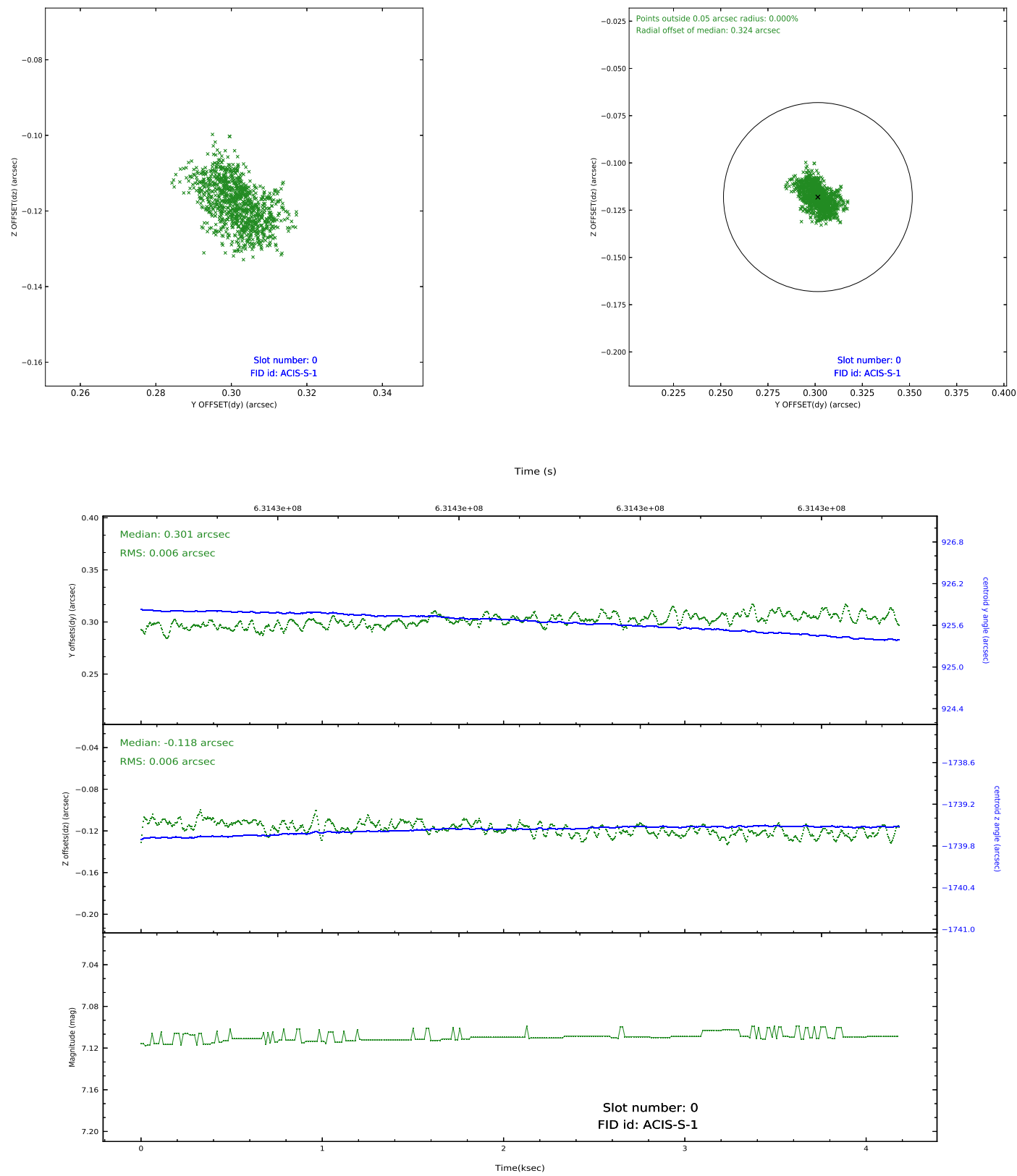


2.4.5 Slot 7

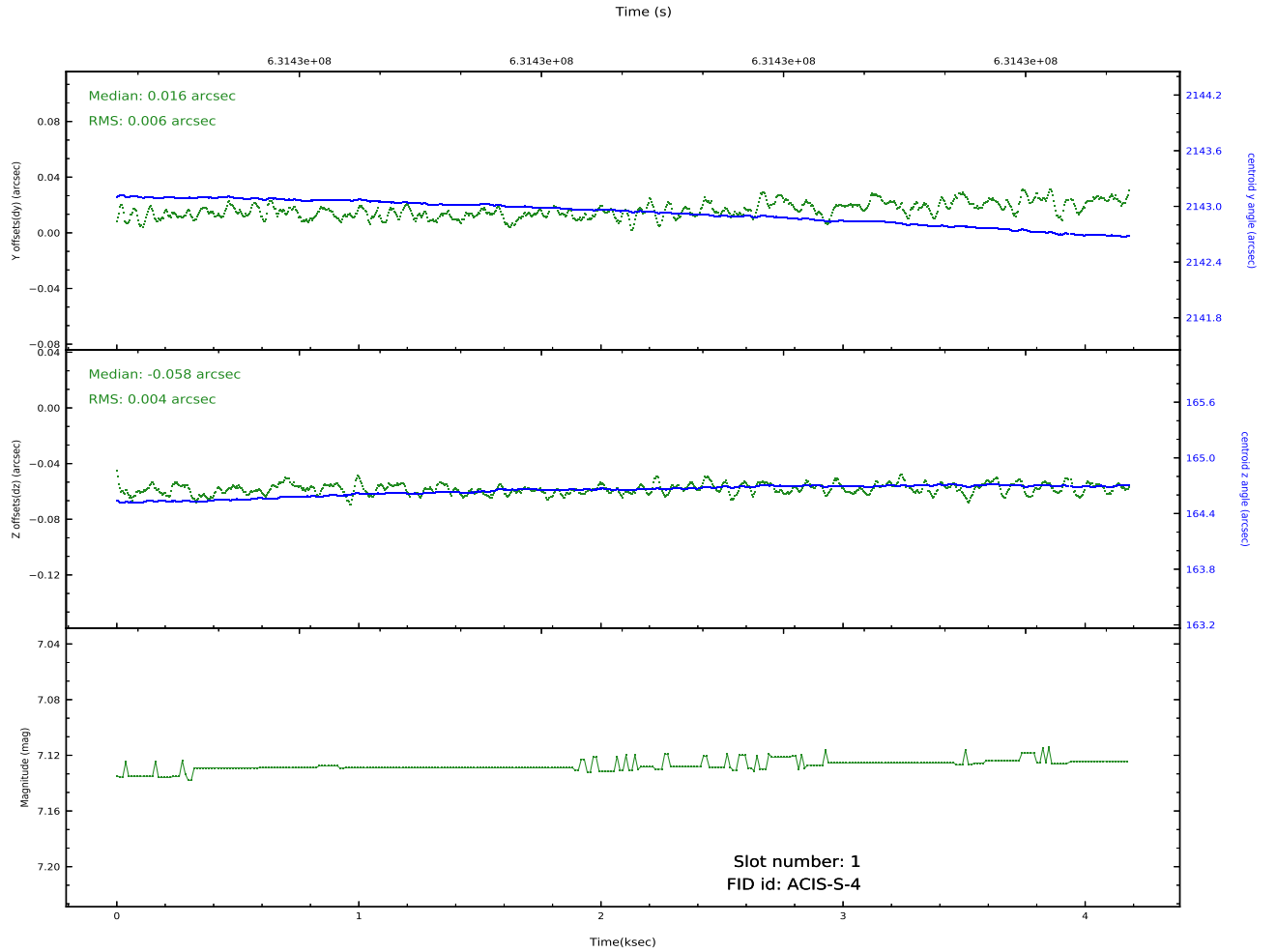
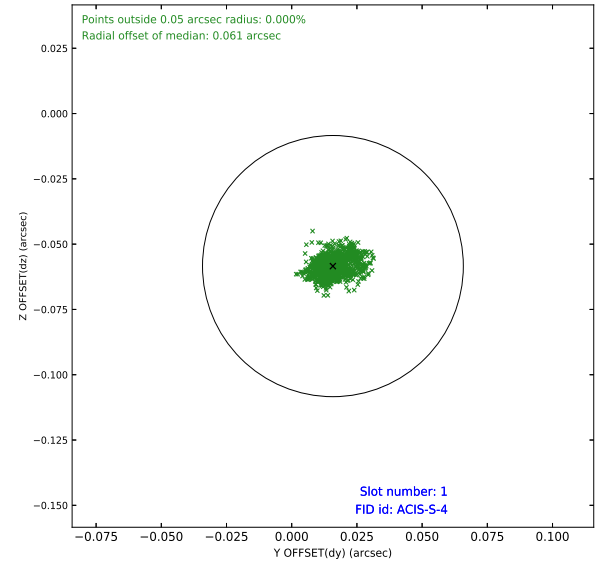
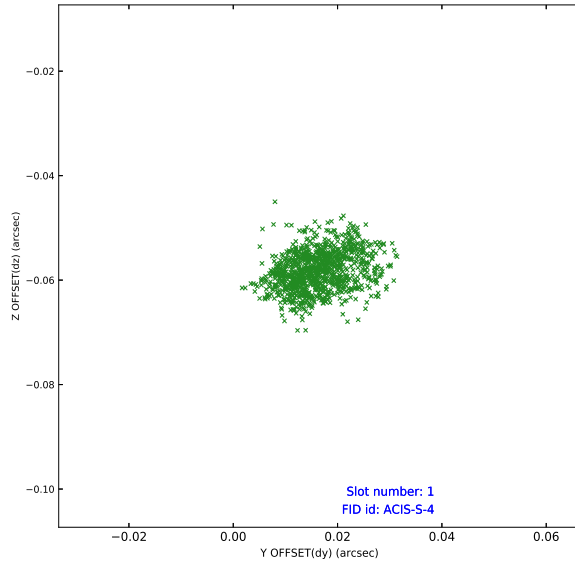


2.5 FID Slots

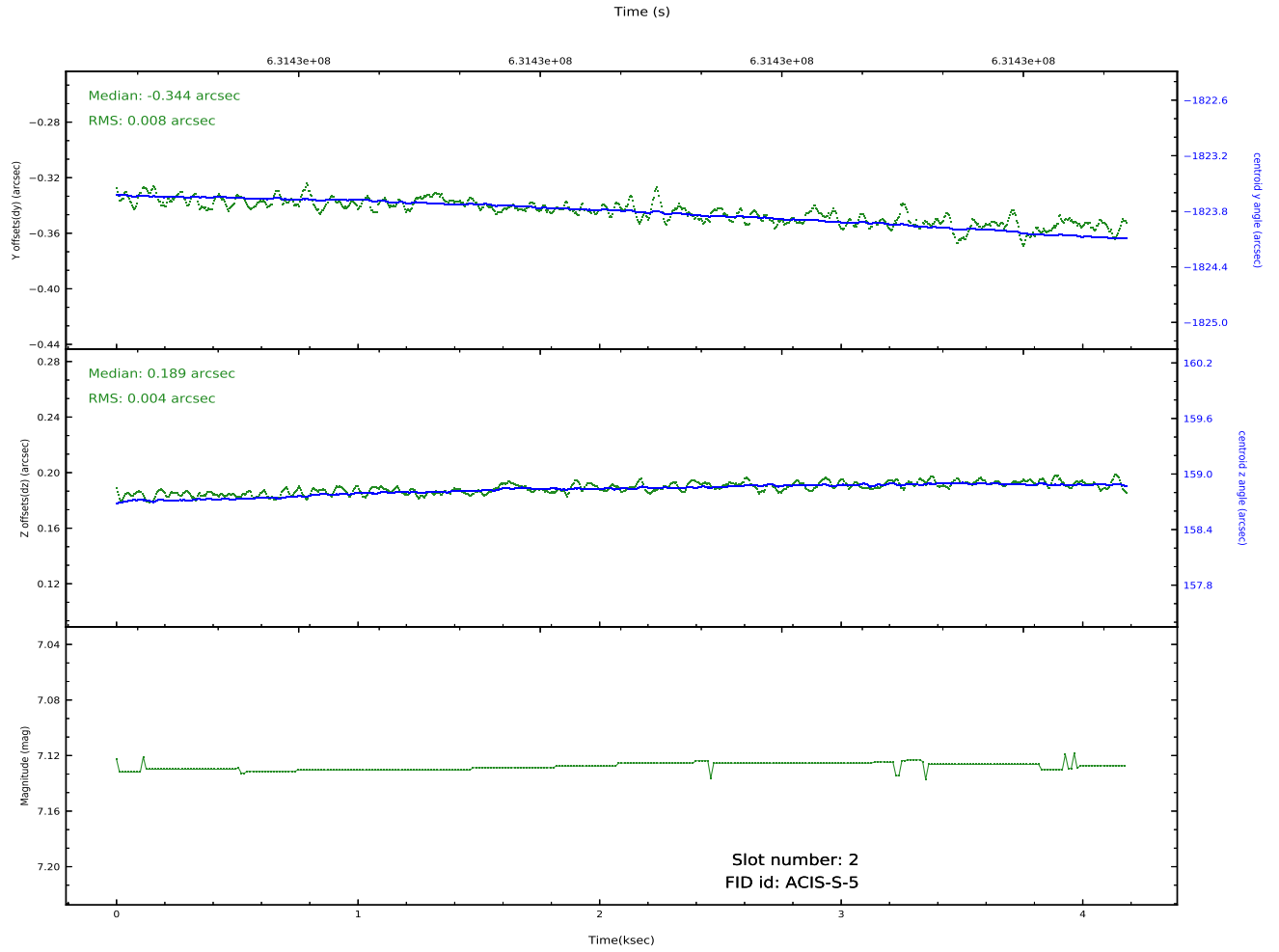
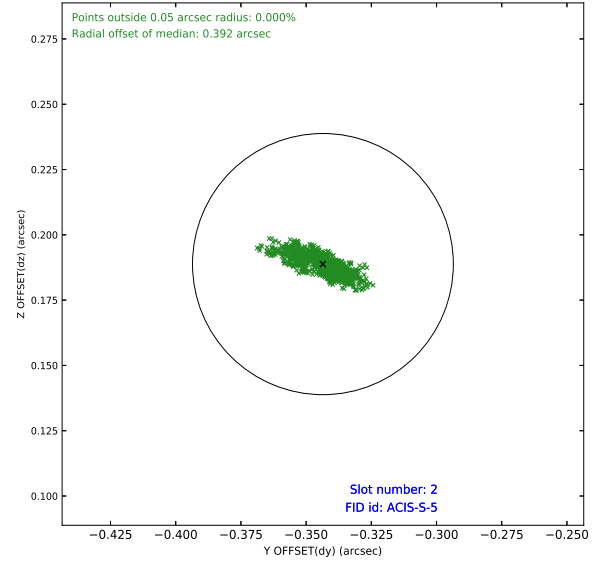
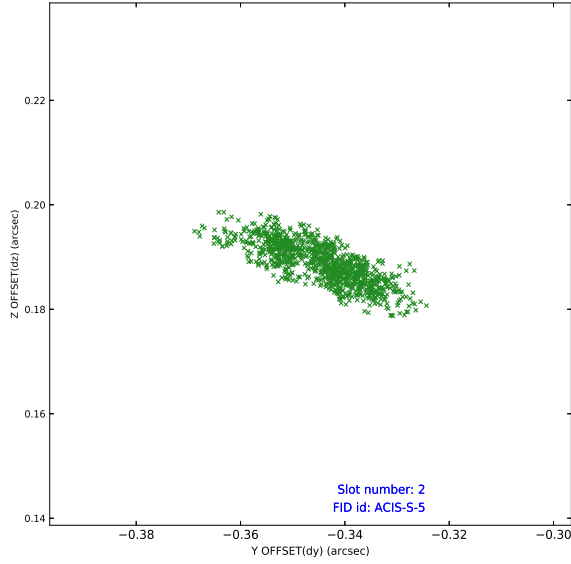
2.5.1 Slot 0



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)	2020.10.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.1128122097254

A.2 Comments