

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20382 - L2 Version 2
Chandra X-Ray Center

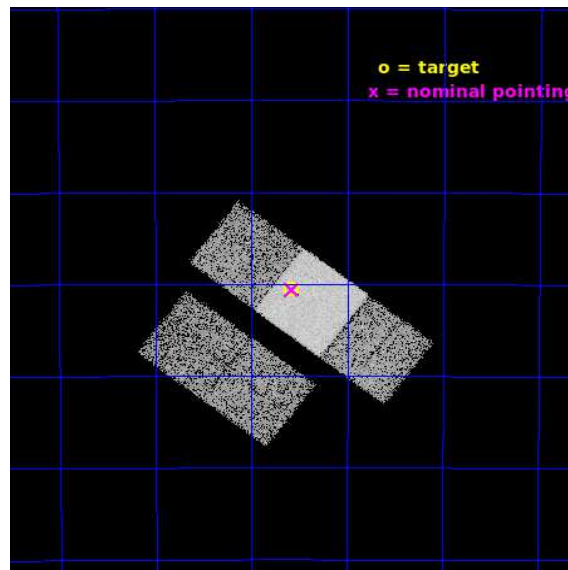
L2 Processing Date : Oct 27 2020

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1 Front

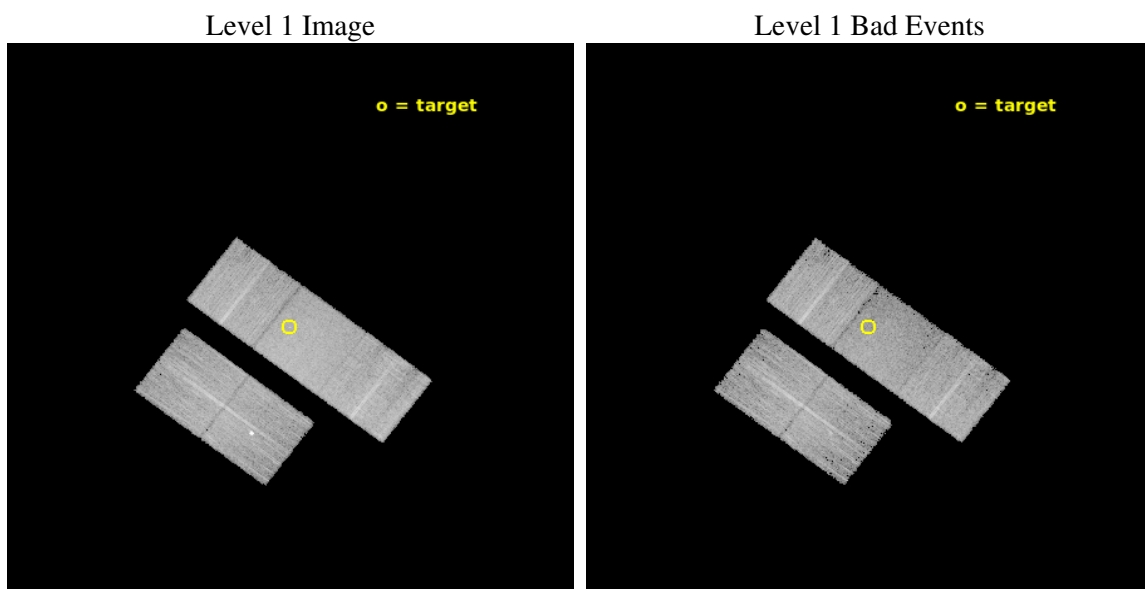
seq_num	703487	Sequence number
obs_id	20382	Observation id
title	HEAVILY REDDENED, LUMINOUS TYPE 1 QSOs: A TRANSITION POPULATION EMERGING FROM THE DUST	Proposal title
observer	Enrico Piconcelli	Principal investigator
object	VHSJ2256-4800	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	344.144583	Observer's specified target RA [deg]
dec_targ	-48.008806	Observer's specified target Dec [deg]
ra_nom	344.14440487525	Nominal RA [deg]
dec_nom	-48.010232345696	Nominal Dec [deg]
roll_nom	37.158051177025	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8996.2000693083	Sum of GTIs [s]
livetime	8878.6580924966	Livetime [s]
ontime2	8996.2000693083	Sum of GTIs [s]
ontime3	8996.2000693083	Sum of GTIs [s]
ontime6	8996.2000693083	Sum of GTIs [s]
ontime7	8996.2000693083	Sum of GTIs [s]
ontime8	8993.059019208	Sum of GTIs [s]
l2events	62315	Number of level 2 events



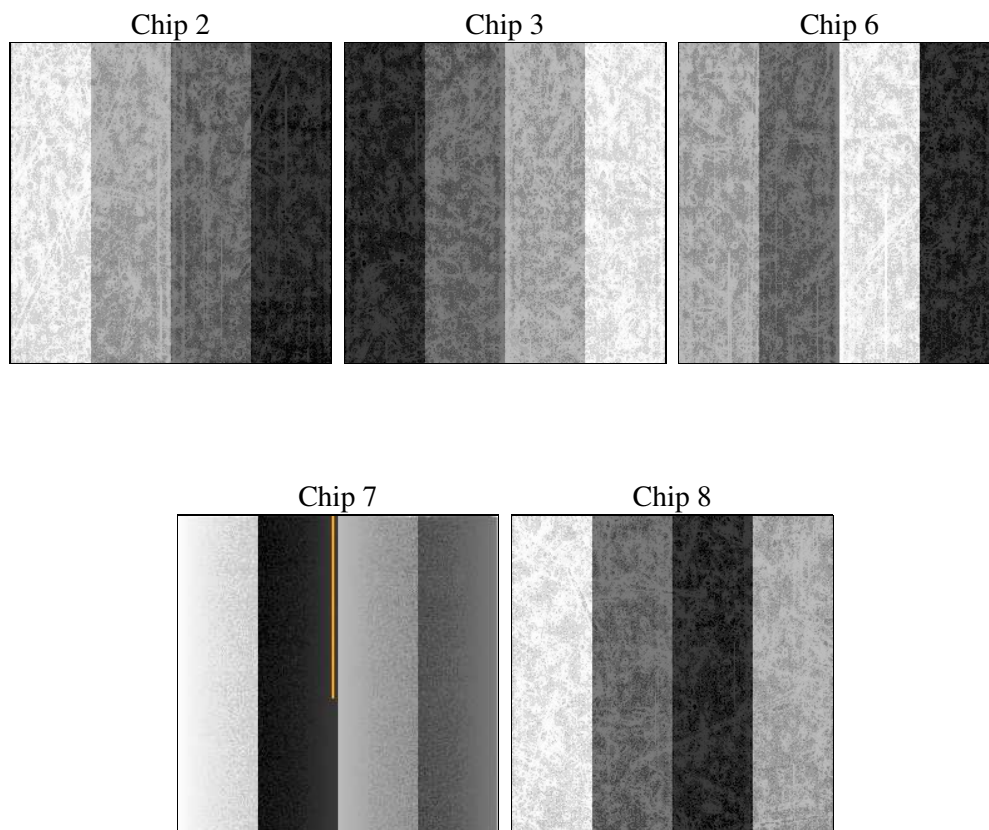
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	8947.102000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	8996.2000693083	Sum of GTIs [s]
caldsver	4.9.3	 	ontime2	8996.2000693083	Sum of GTIs [s]
date	2020-10-27T07:12:14	Date and time of file creation	ontime3	8996.2000693083	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	8996.2000693083	Sum of GTIs [s]
			ontime7	8996.2000693083	Sum of GTIs [s]
			ontime8	8993.059019208	Sum of GTIs [s]
			l1events	391347	Number of level 1 events

2.1.4 Events

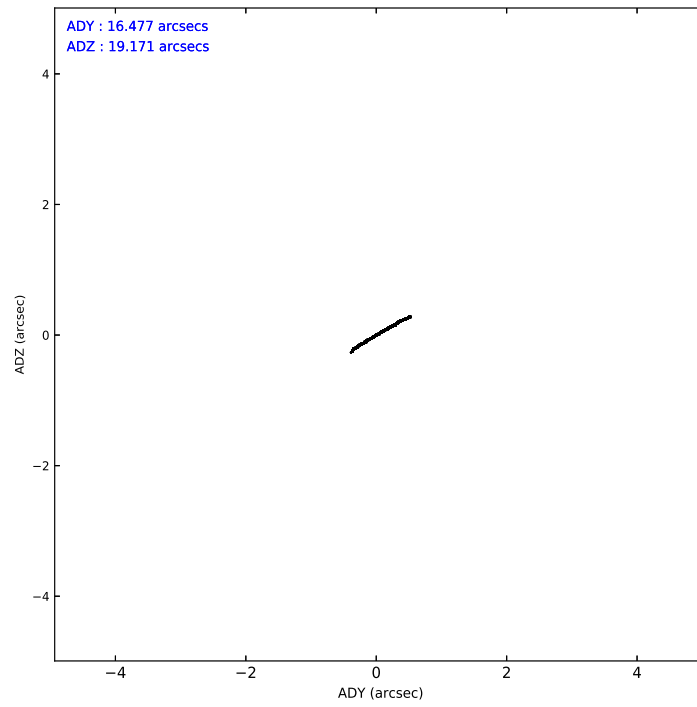
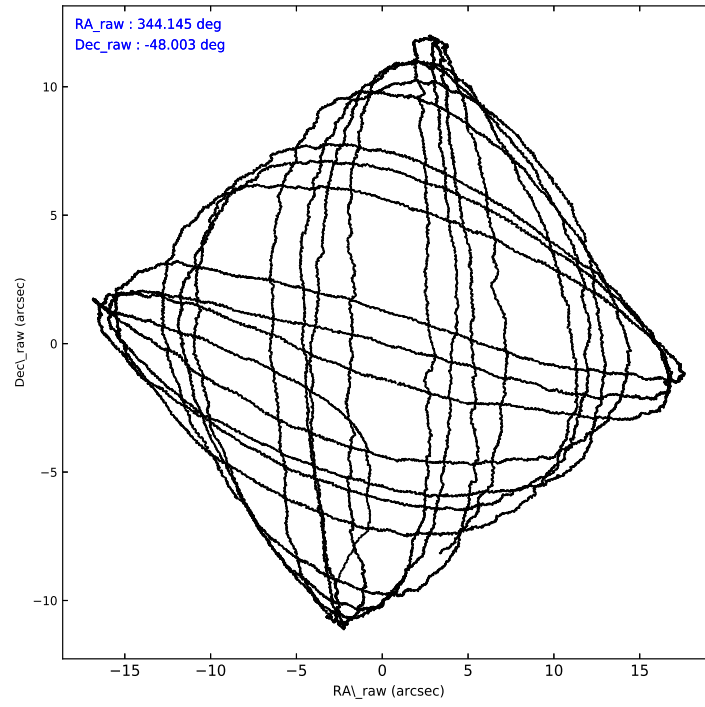
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	70527	69195	74639	87473	89513
rejected events	63768	60455	67008	50352	67435
rejected %	90%	87%	89%	57%	75%

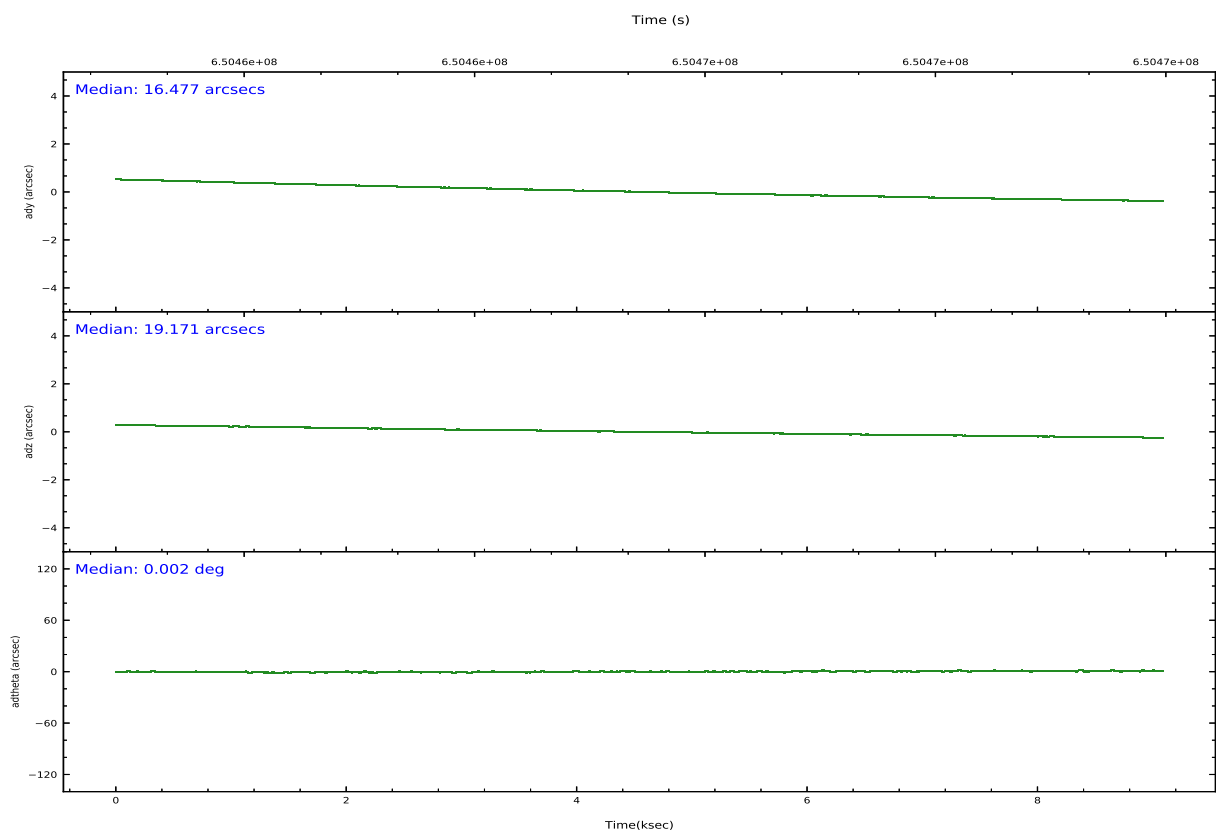
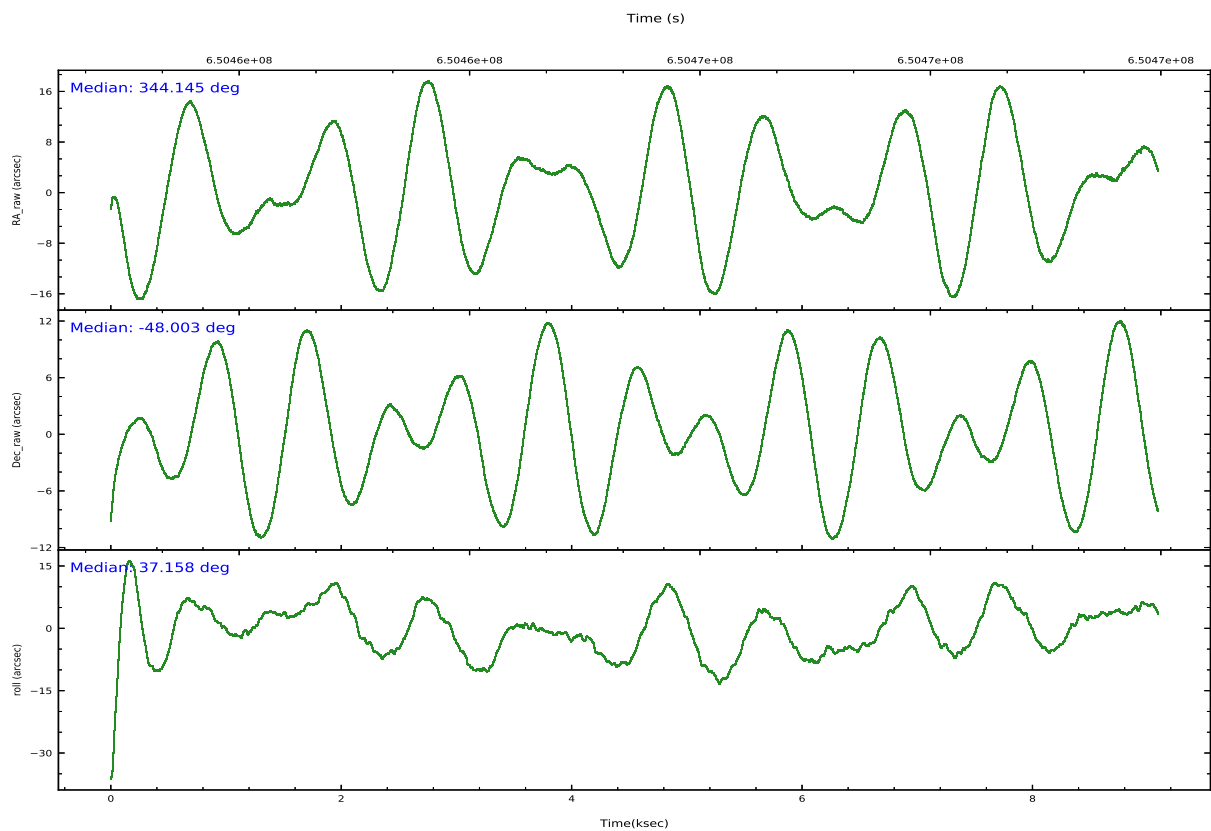
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	2372	2373	2000	3117	5953
	3%	3%	2%	3%	6%
grade 1 events	41	41	31	122	60
	0%	0%	0%	0%	0%
grade 2 events	1601	3308	2305	7511	5645
	2%	4%	3%	8%	6%
grade 3 events	635	736	595	2915	2113
	0%	1%	0%	3%	2%
grade 4 events	660	644	548	2767	2011
	0%	0%	0%	3%	2%
grade 5 events	2488	2888	2689	8492	4496
	3%	4%	3%	9%	5%
grade 6 events	1495	1687	2191	20837	6367
	2%	2%	2%	23%	7%
grade 7 events	61235	57518	64280	41712	62868
	86%	83%	86%	47%	70%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-23678	ACIS-23678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	344.129761	344.14440487525	CCD I2 on	O1	Y
[deg] Pointing Dec	-48.028421	-48.010232345696	CCD I3 on	O2	Y
[deg] Pointing Roll	36.988983	37.158051177025	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	O3	Y
[s] Observation start time (MET)	650461031.184000	650459556.96727	CCD S5 on	N	N
Observation start date	2018-08-12T11:36:02	2018-08-12T11:12:36	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	650469978.184000	650470927.29295	On-chip summing requested	N	N
Observation end date	2018-08-12T14:05:09	2018-08-12T14:22:07	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



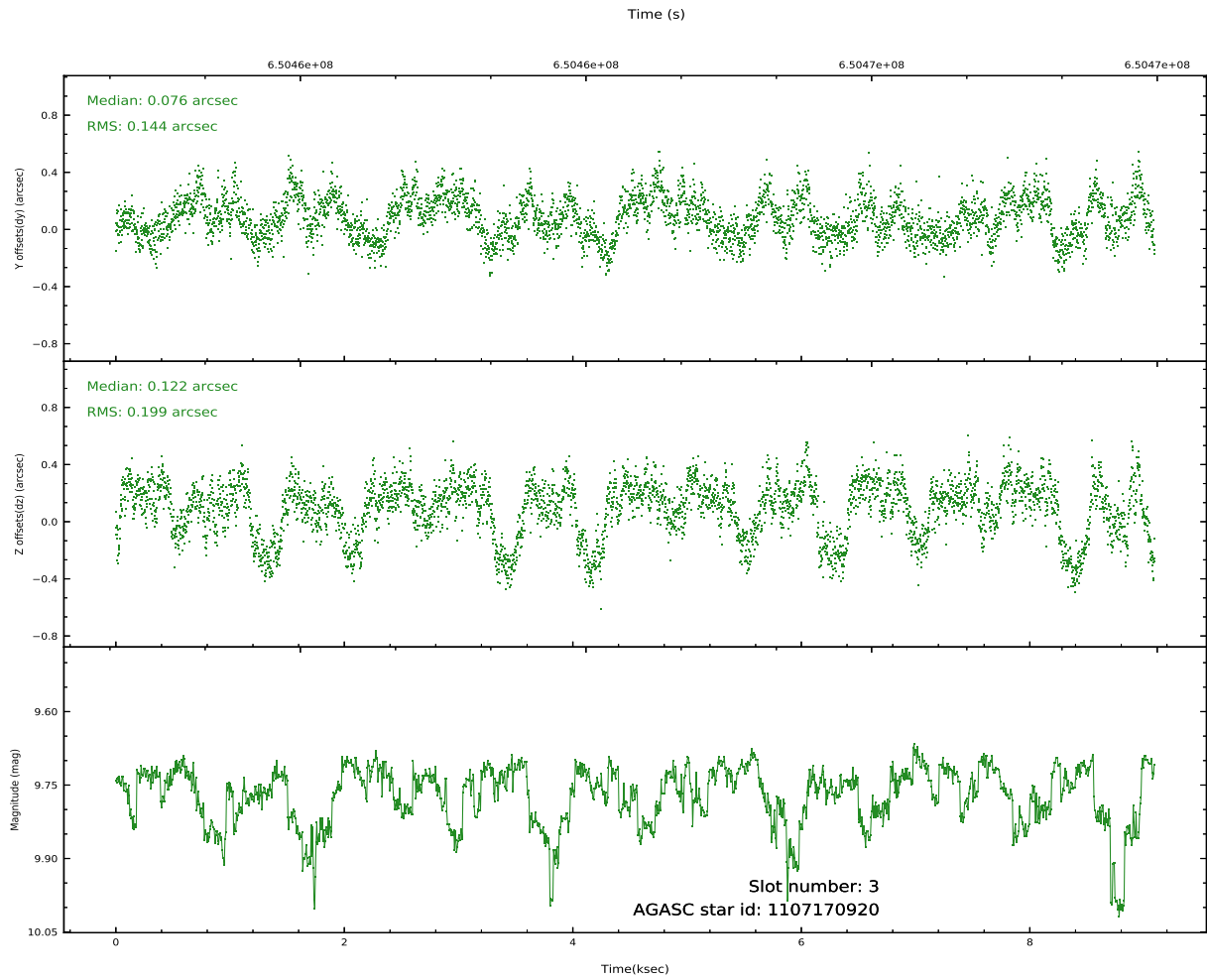
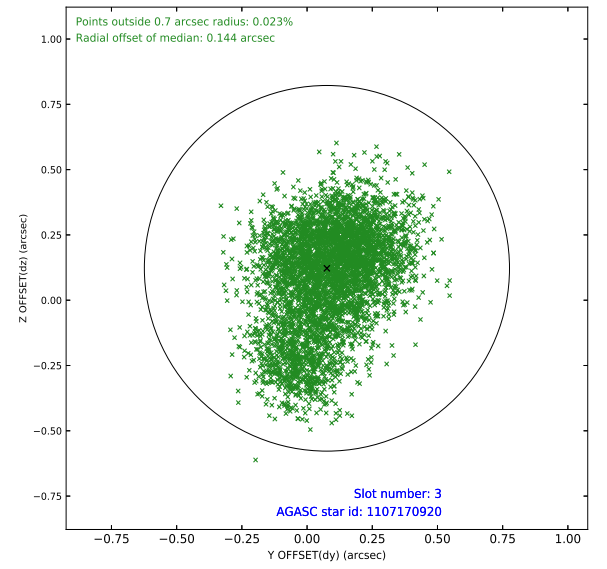
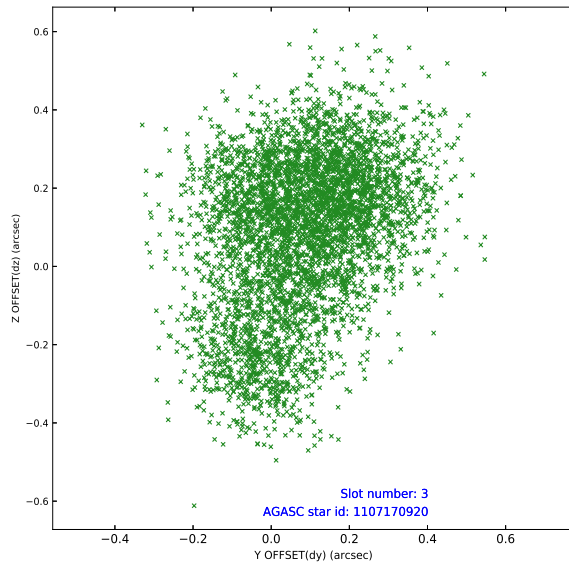


Slot Statistics

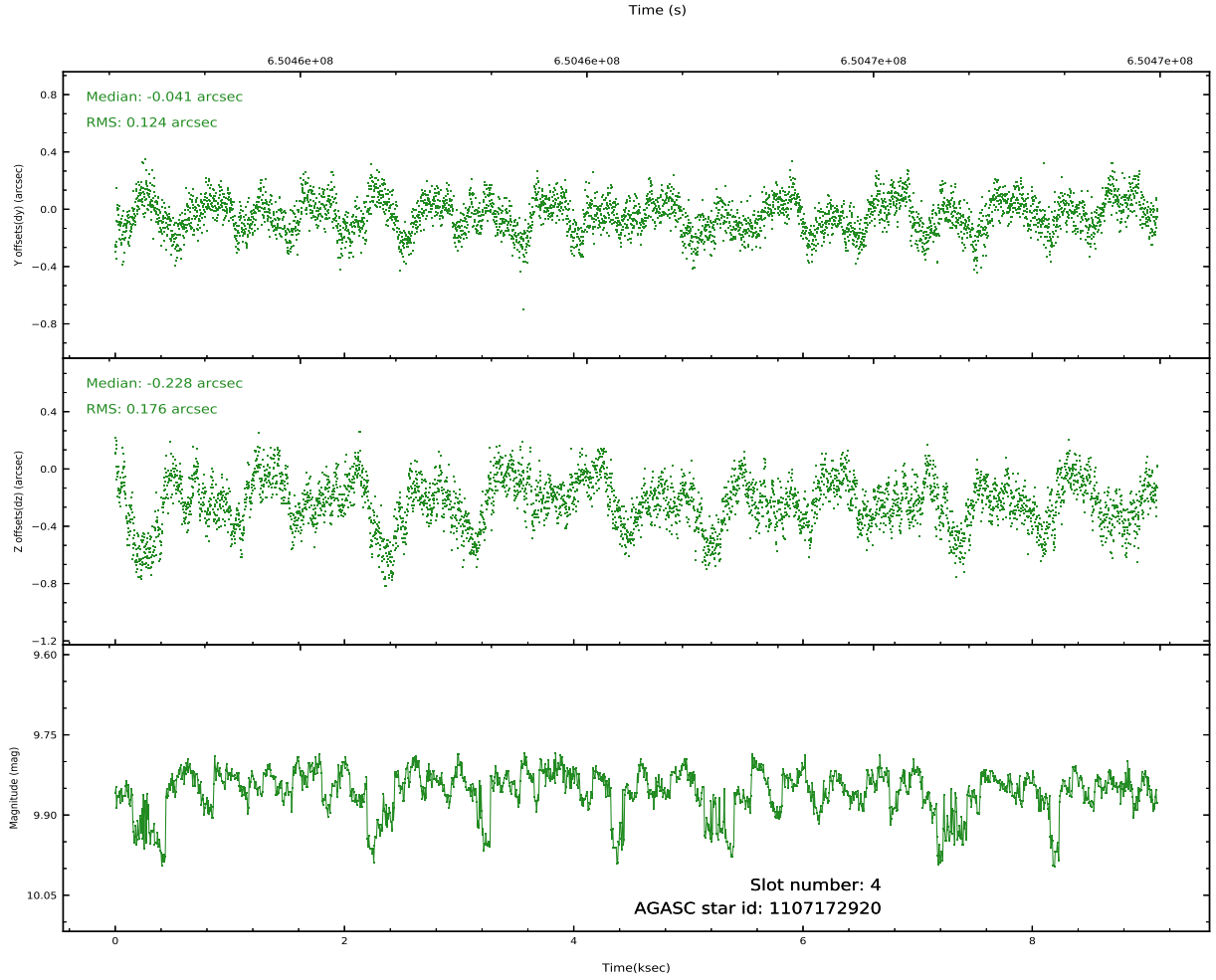
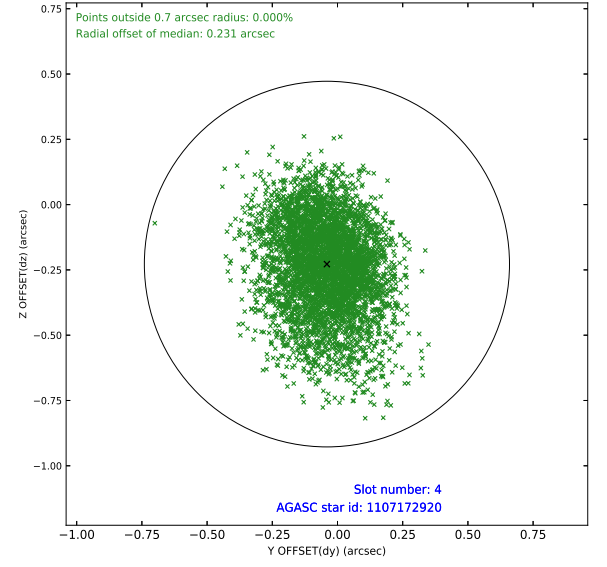
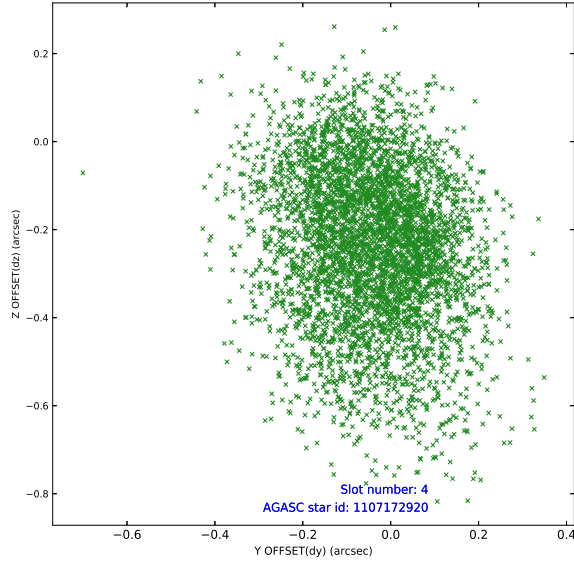
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.16	2218	1.000	0.101	-0.122	0.010	0.016	0.000000	0.000000	-769.61	-1740
1	FID		ACIS-S-4	7.28	2218	1.000	0.181	-0.015	0.007	0.013	0.000000	0.000000	2143.68	166
2	FID		ACIS-S-5	7.26	2218	1.000	-0.313	0.147	0.009	0.015	0.000000	0.000000	-1821.89	161
3	GUIDE	used	1107170920	9.76	4433	1.000	0.076	0.122	0.256	0.442	344.425129	-47.270258	2218.44	1744
4	GUIDE	used	1107172920	9.85	4426	1.000	-0.041	-0.228	0.229	0.376	344.321638	-47.472837	1576.76	1316
5	GUIDE	used	1107175312	9.99	4426	1.000	-0.023	0.136	0.313	0.473	344.191377	-47.297600	1704.38	2010
6	GUIDE	used	1107568008	6.84	4436	1.000	0.014	0.021	0.197	0.310	343.816648	-48.491753	-1603.27	-880
7	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0

2.4 Star Slots

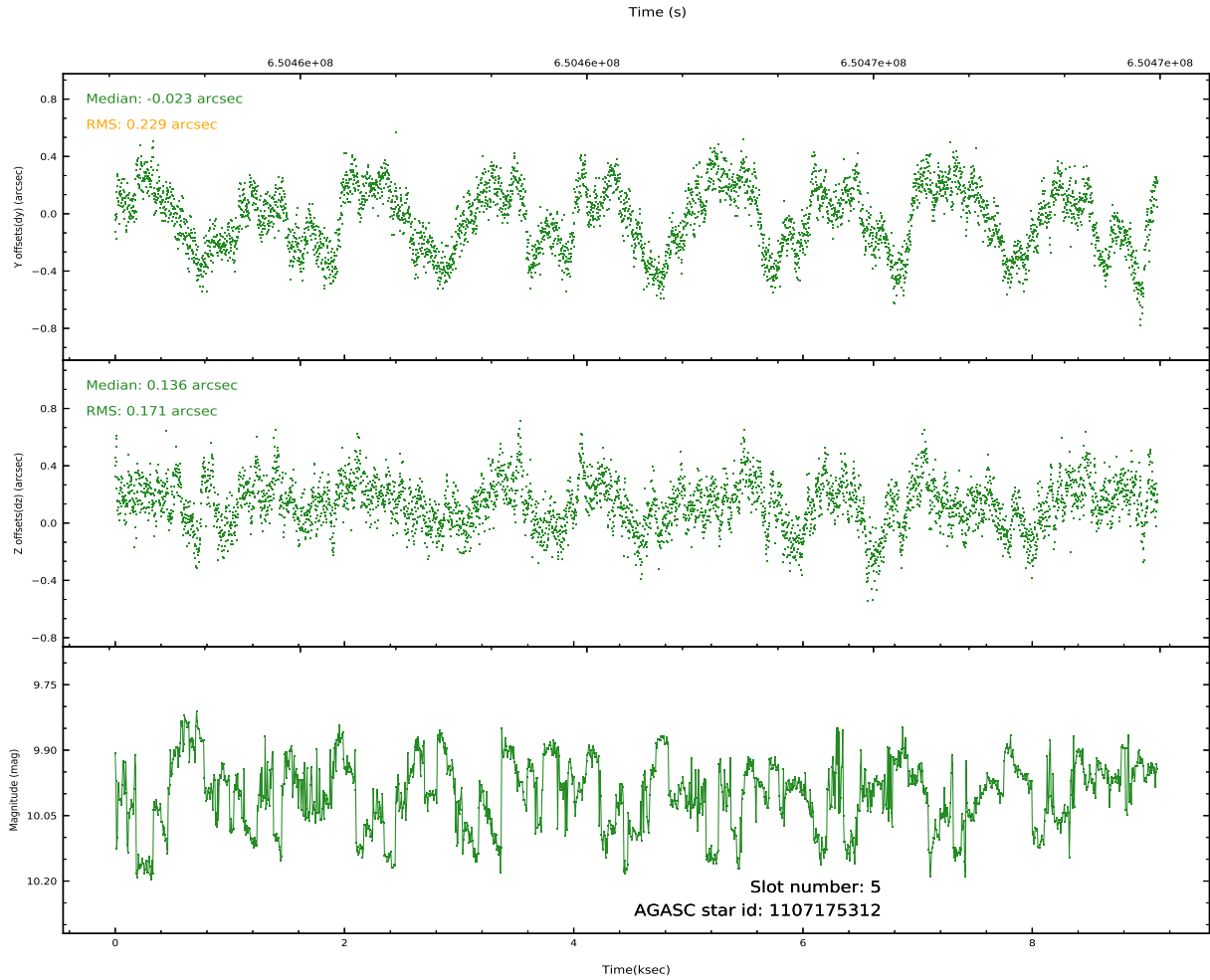
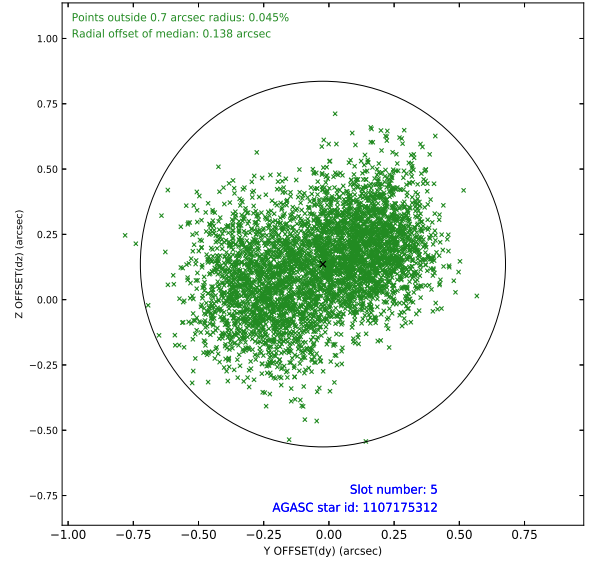
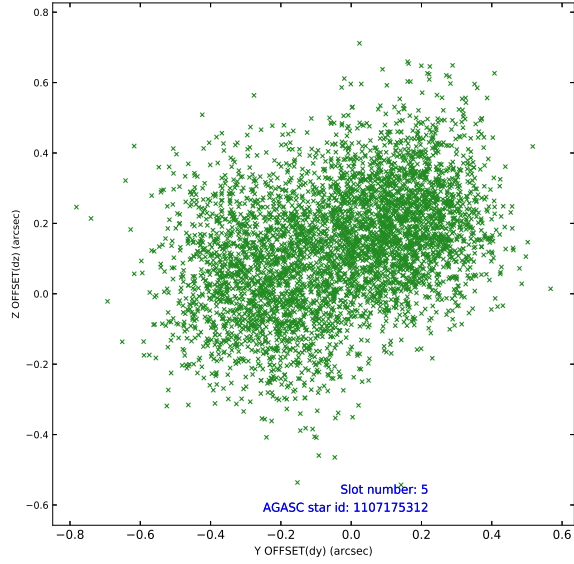
2.4.1 Slot 3



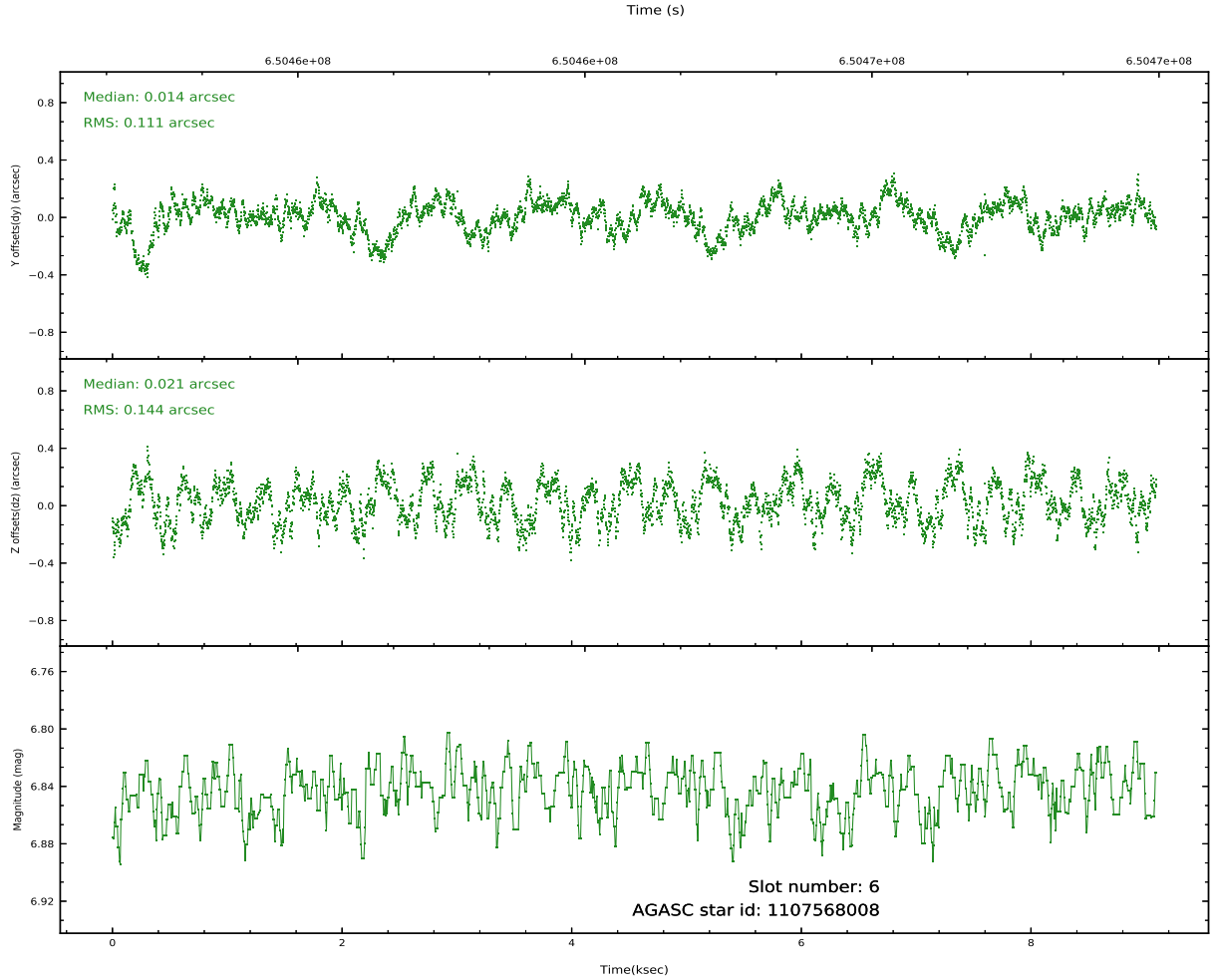
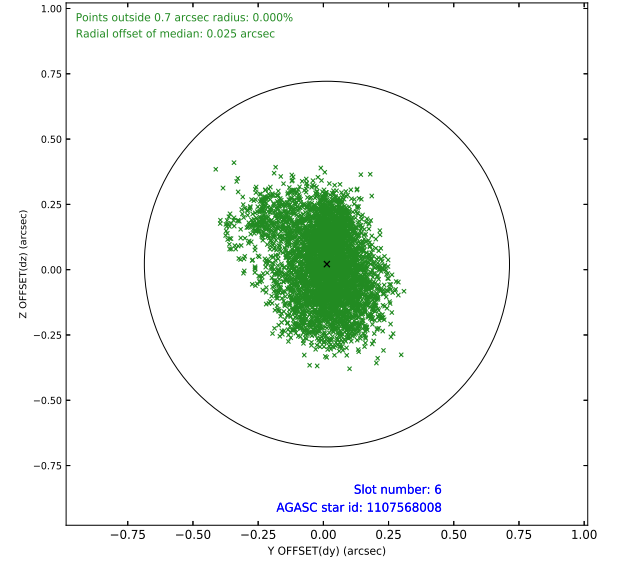
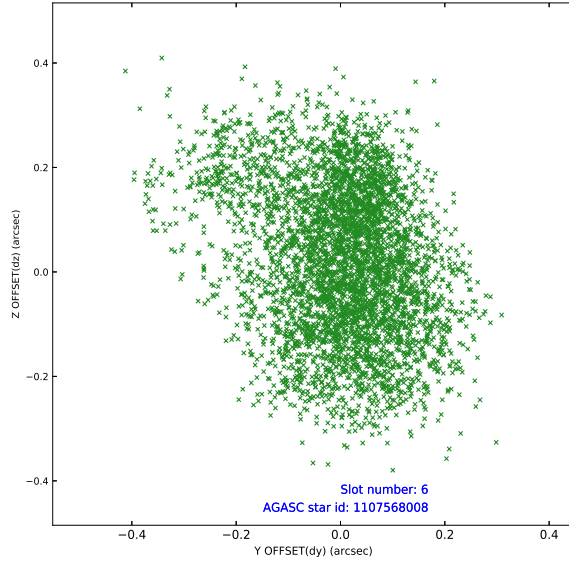
2.4.2 Slot 4



2.4.3 Slot 5

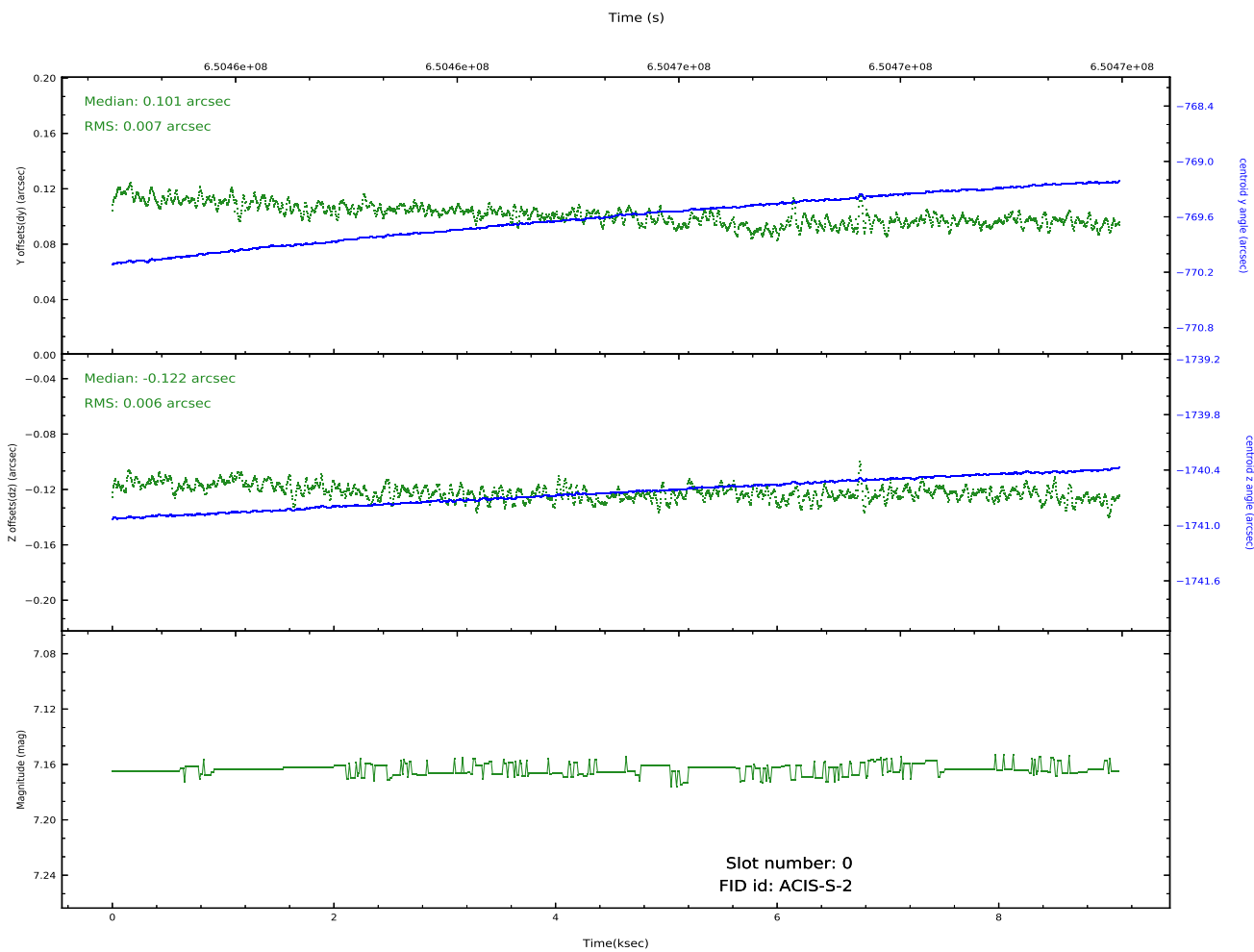
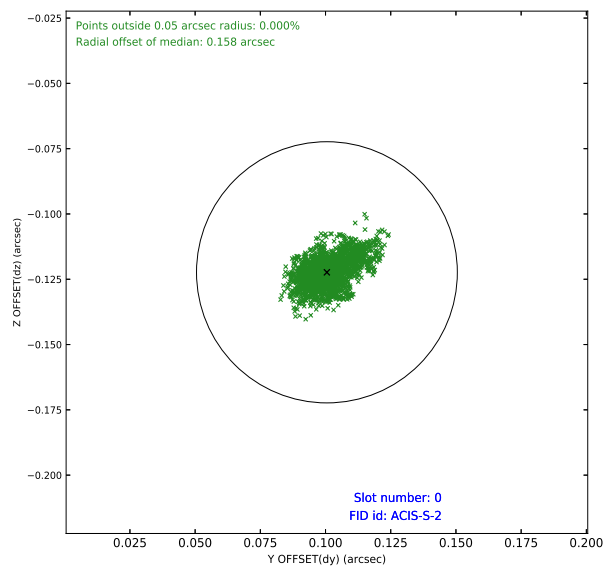
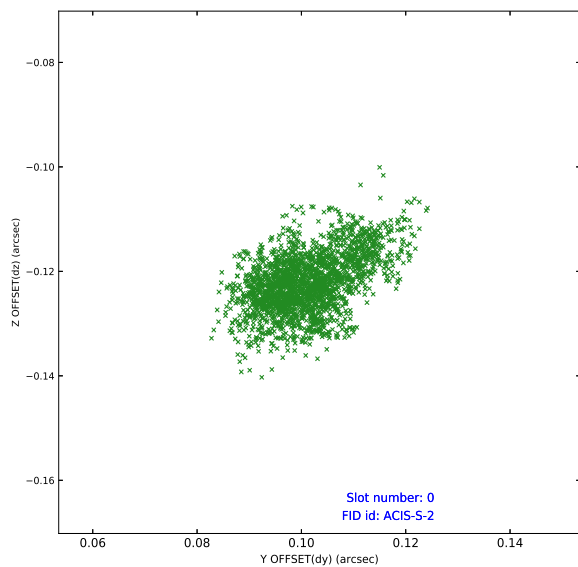


2.4.4 Slot 6

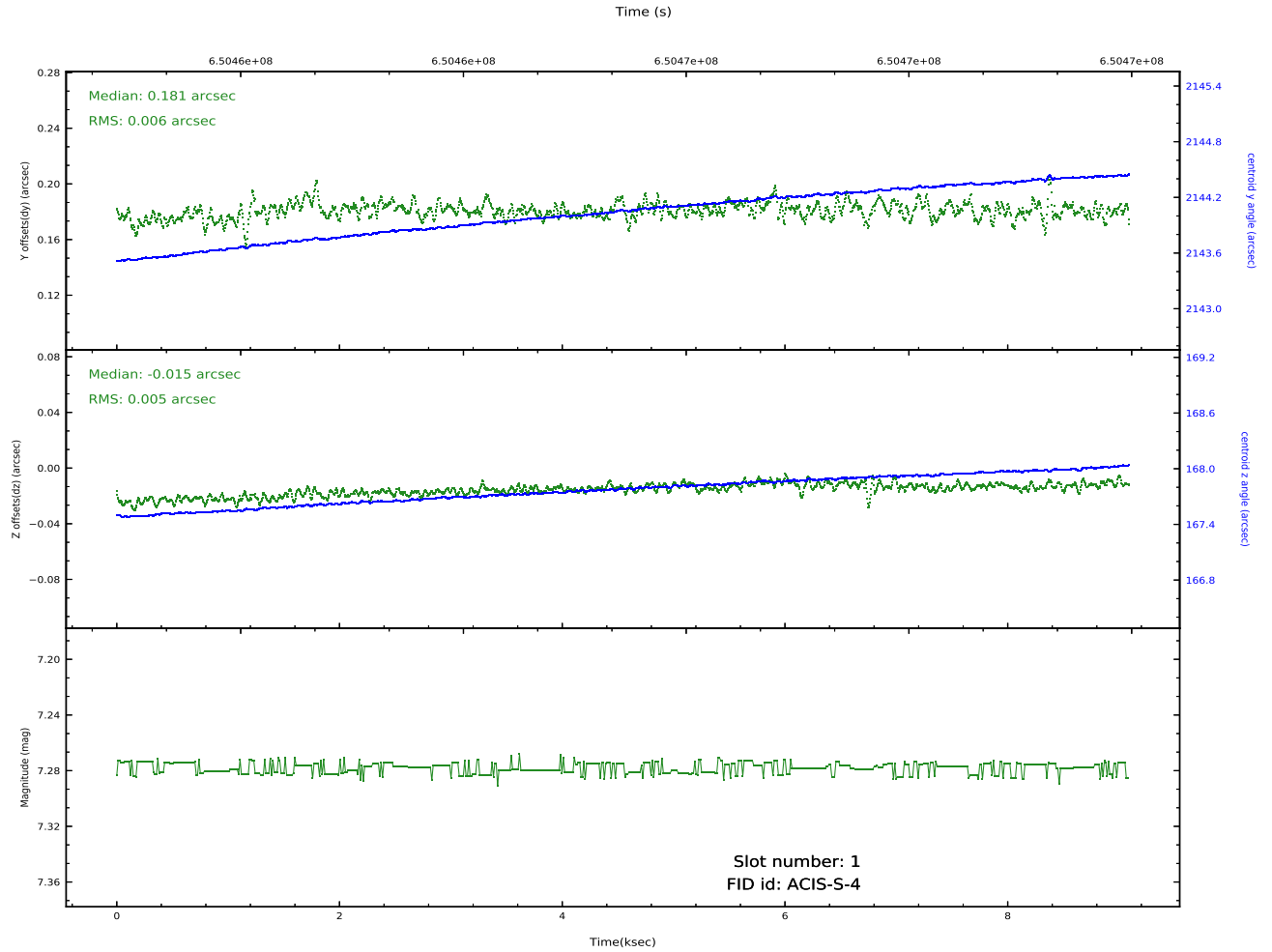
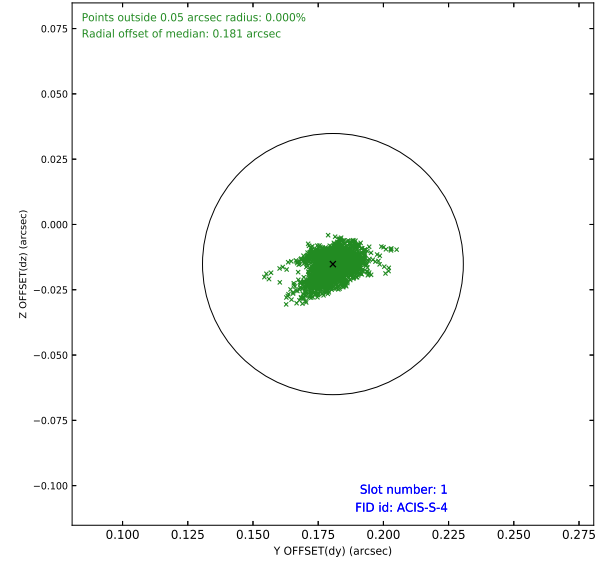
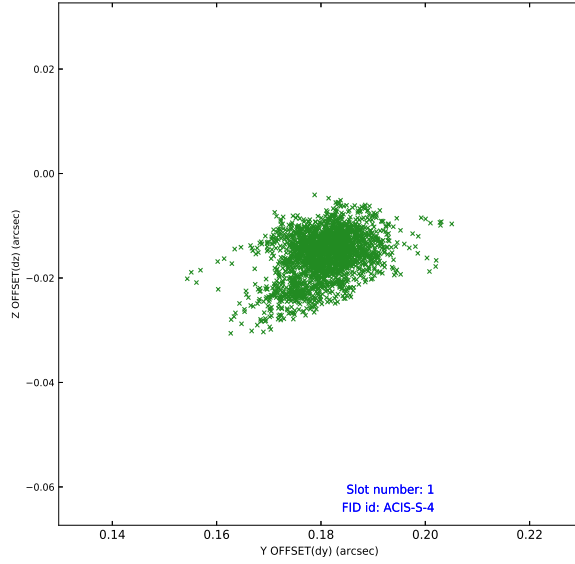


2.5 FID Slots

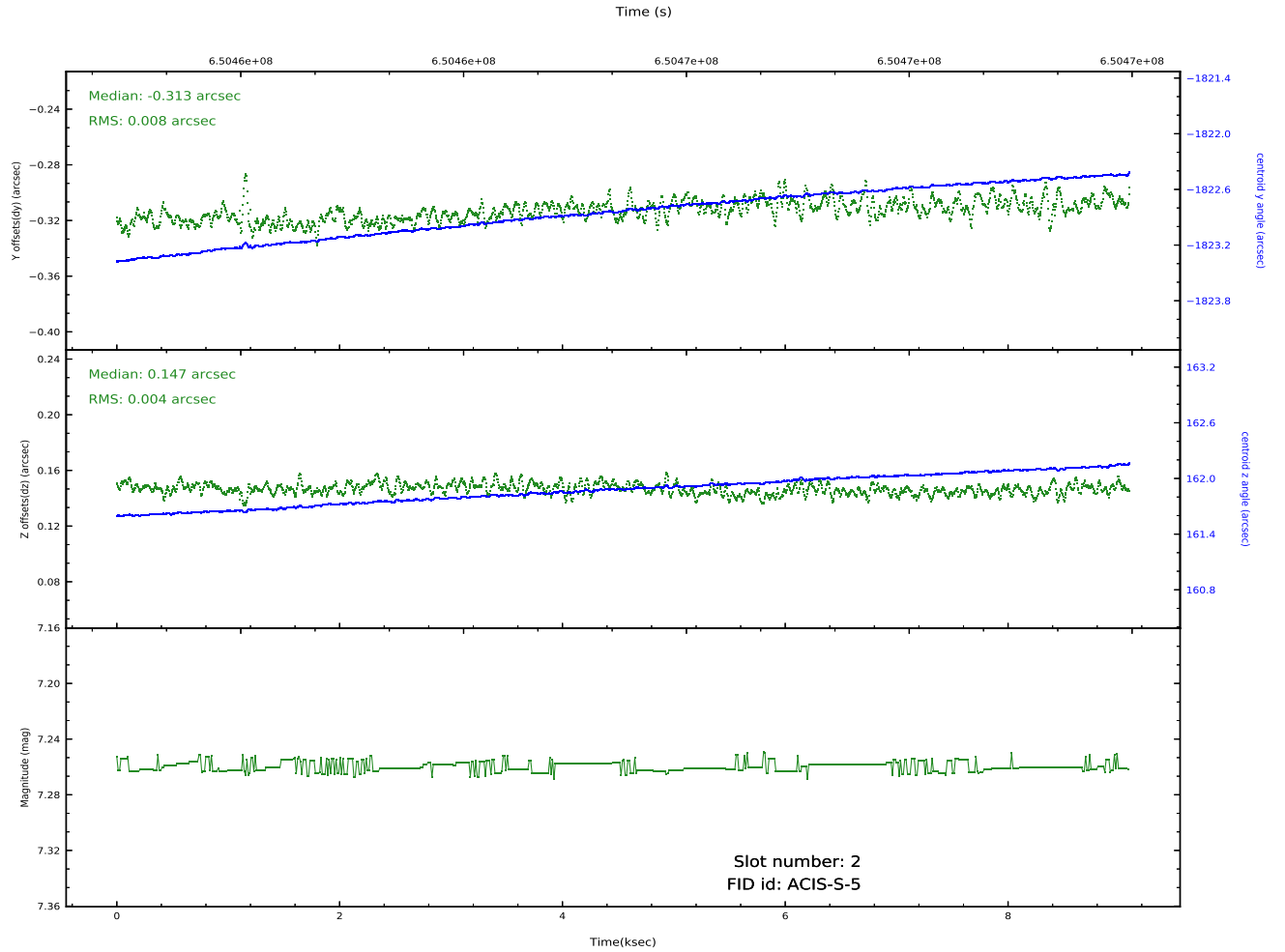
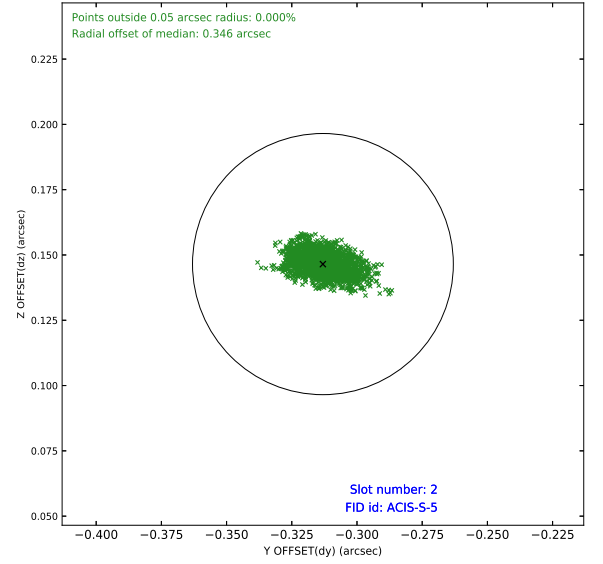
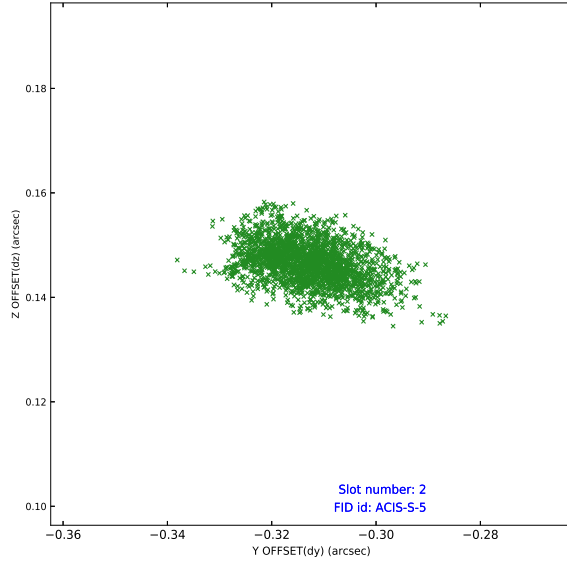
2.5.1 Slot 0



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)	2020.10.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.9962000693083

A.2 Comments

The guide star in slot 7 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this guide star from the solution.