

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 21019 - L2 Version 2
Chandra X-Ray Center

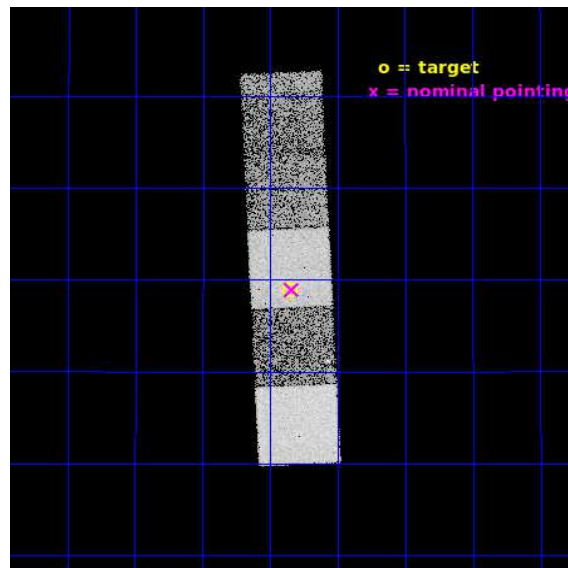
L2 Processing Date : Oct 28 2020

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1 Front

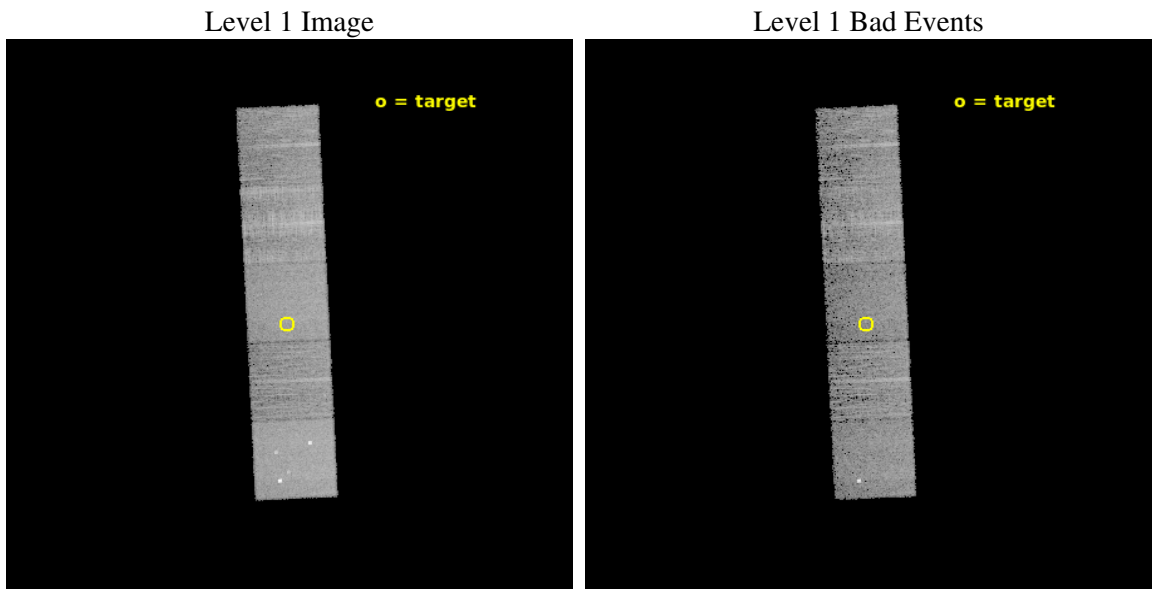
seq_num	703660	Sequence number
obs_id	21019	Observation id
title	LOW SURFACE BRIGHTNESS GALAXIES AND THE BLACK HOLE OCCUPATION FRACTION	Proposal title
observer	Elena Gallo	Principal investigator
object	LSBC F544-01	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	30.337083	Observer's specified target RA [deg]
dec_targ	19.980833	Observer's specified target Dec [deg]
ra_nom	30.334739572967	Nominal RA [deg]
dec_nom	19.982479453638	Nominal Dec [deg]
roll_nom	267.28477011617	Nominal Roll [deg]
revision	2	Processing version of data
ontime	6553.4000505209	Sum of GTIs [s]
livetime	6467.7750543179	Livetime [s]
ontime5	6553.4000505209	Sum of GTIs [s]
ontime6	6553.4000505209	Sum of GTIs [s]
ontime7	6553.4000505209	Sum of GTIs [s]
ontime8	6553.4000505209	Sum of GTIs [s]
ontime9	6553.4000505209	Sum of GTIs [s]
l2events	78109	Number of level 2 events



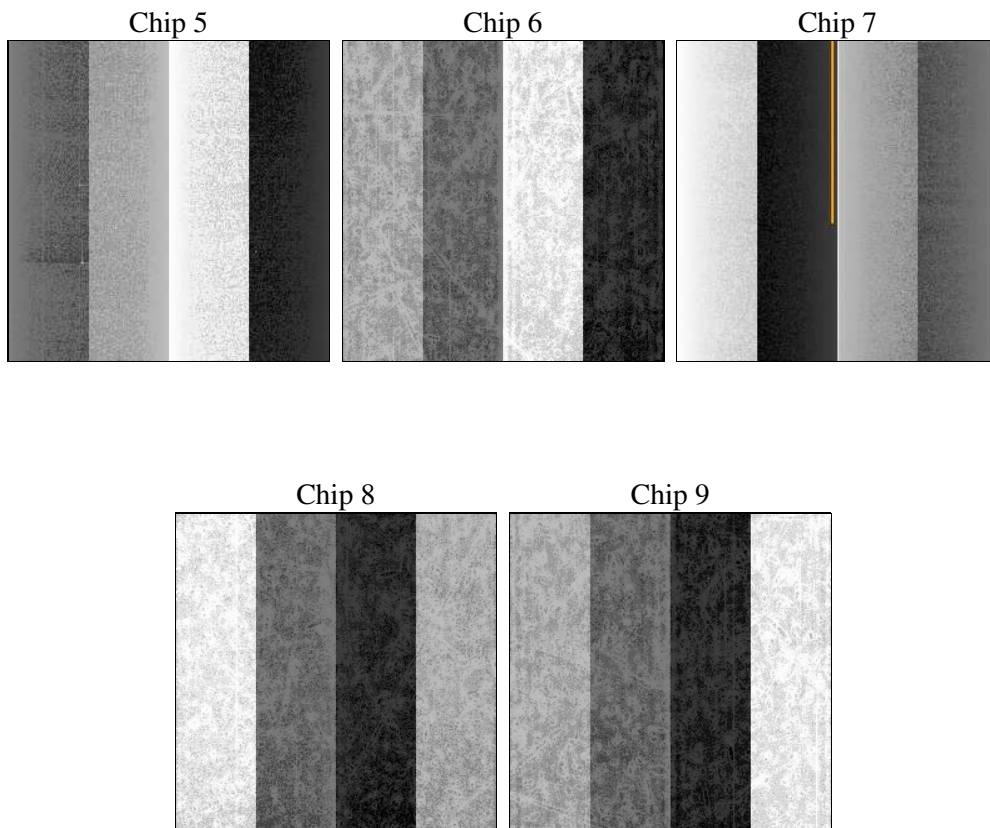
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	6500.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	6553.4000505209	Sum of GTIs [s]
caldsver	4.9.3	 	ontime5	6553.4000505209	Sum of GTIs [s]
date	2020-10-28T04:47:43	Date and time of file creation	ontime6	6553.4000505209	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	6553.4000505209	Sum of GTIs [s]
			ontime8	6553.4000505209	Sum of GTIs [s]
			ontime9	6553.4000505209	Sum of GTIs [s]
			l1events	307582	Number of level 1 events

2.1.4 Events

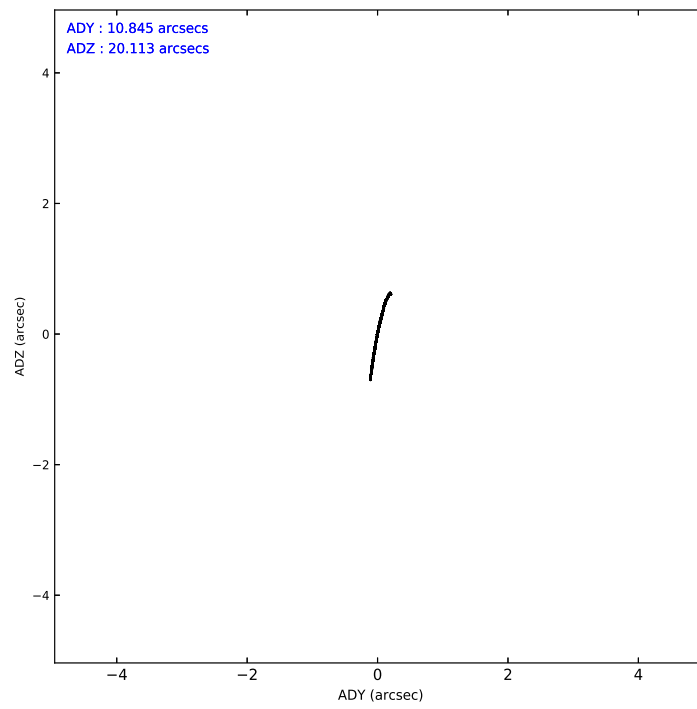
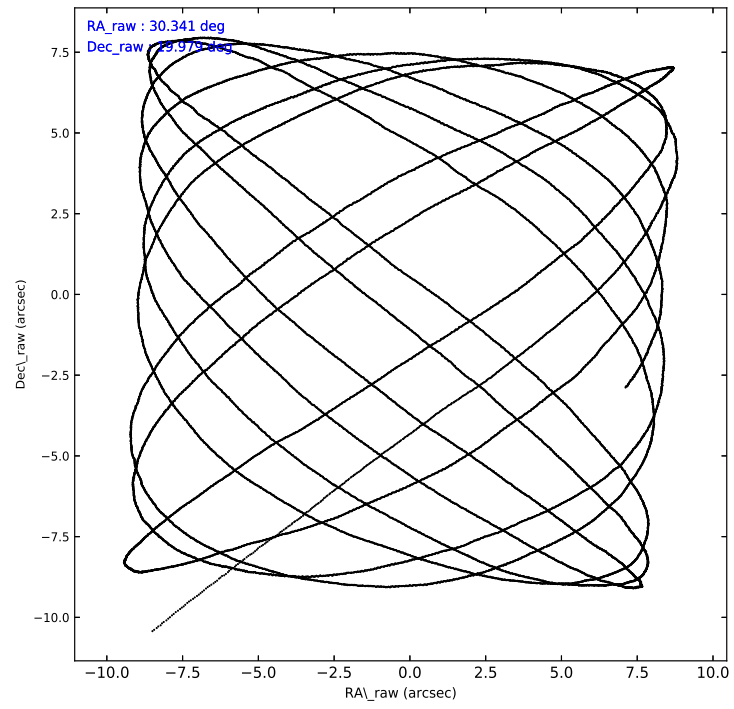
	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	81972	47110	62108	69448	46944
rejected events	41934	41611	34976	50688	40946
rejected %	51%	88%	56%	72%	87%

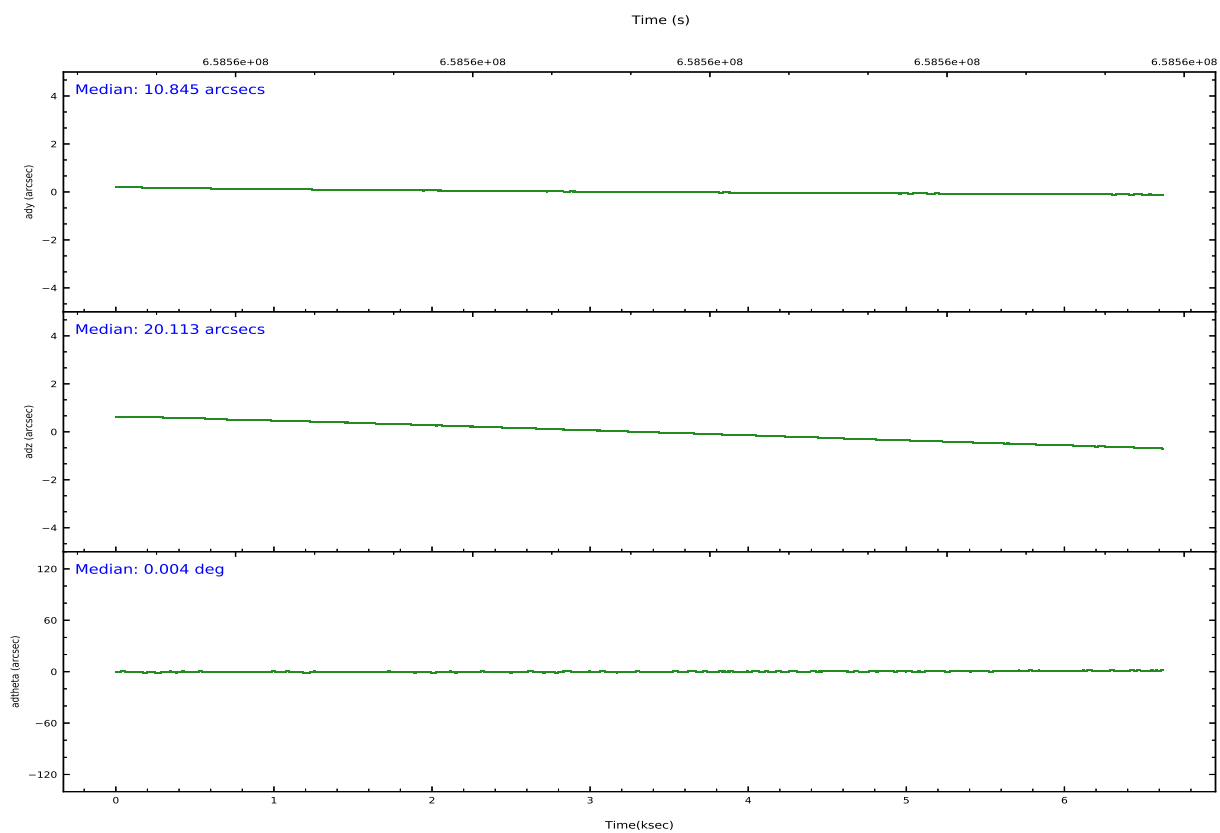
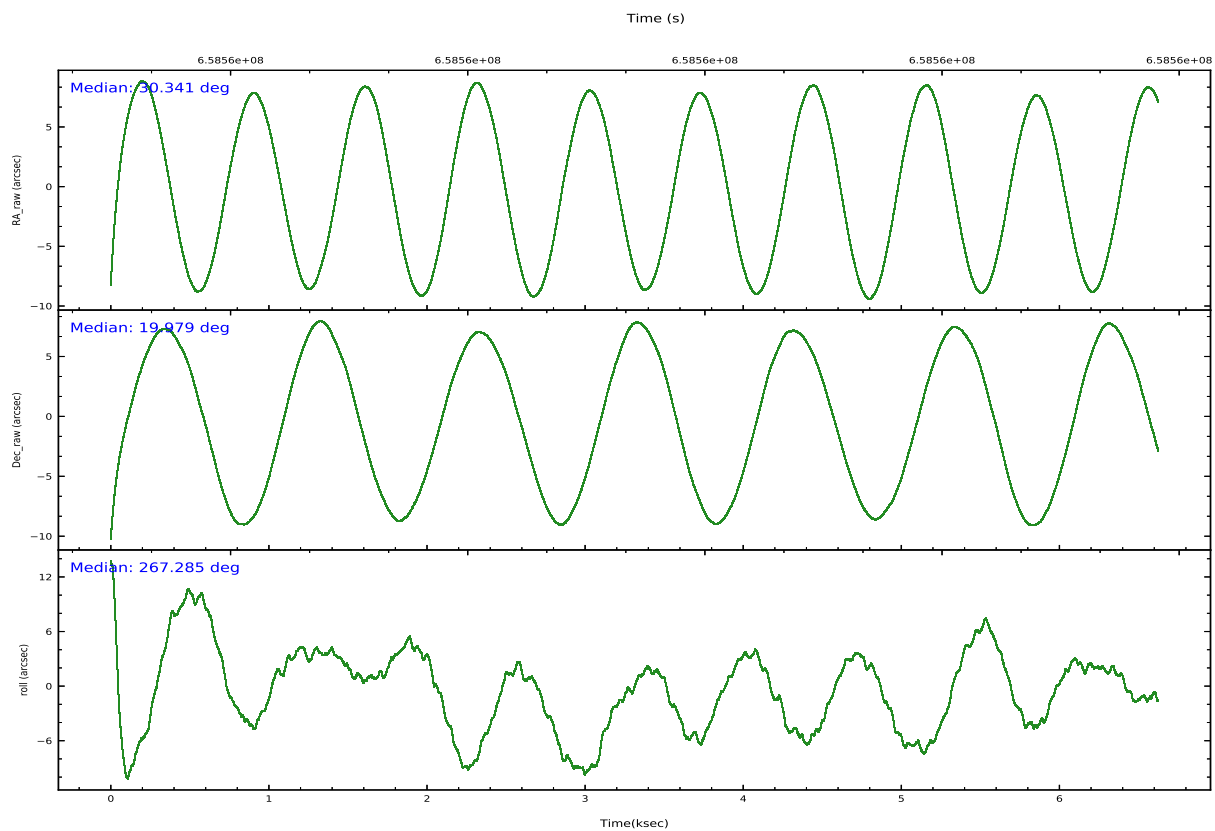
	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	4315	1864	2226	5452	2127
	5%	3%	3%	7%	4%
grade 1 events	181	31	91	59	33
	0%	0%	0%	0%	0%
grade 2 events	12851	1290	5858	4533	1387
	15%	2%	9%	6%	2%
grade 3 events	1241	540	2189	1836	619
	1%	1%	3%	2%	1%
grade 4 events	1131	505	2138	1827	583
	1%	1%	3%	2%	1%
grade 5 events	5838	2187	6226	3417	2682
	7%	4%	10%	4%	5%
grade 6 events	20513	1301	14733	5114	1282
	25%	2%	23%	7%	2%
grade 7 events	35902	39392	28647	47210	38231
	43%	83%	46%	67%	81%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-56789	ACIS-56789	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	30.326894	30.334739572967	CCD I2 on	N	N
[deg] Pointing Dec	20.003143	19.982479453638	CCD I3 on	N	N
[deg] Pointing Roll	267.143934	267.28477011617	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	658554367.184000	658553040.55319	CCD S5 on	O2	Y
Observation start date	2018-11-14T03:44:58	2018-11-14T03:24:00	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	658560867.184000	658561257.97868	On-chip summing requested	N	N
Observation end date	2018-11-14T05:33:18	2018-11-14T05:40:57	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



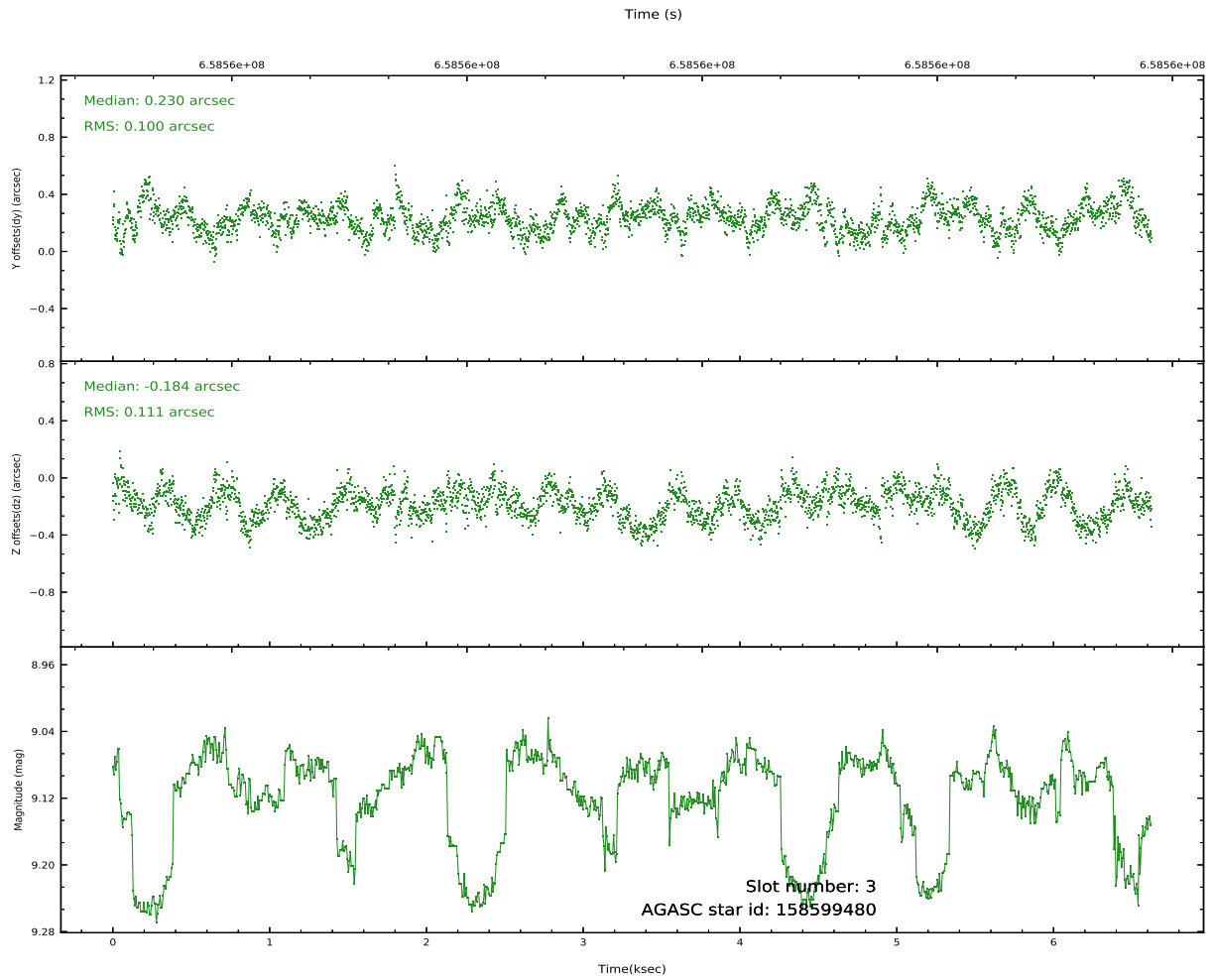
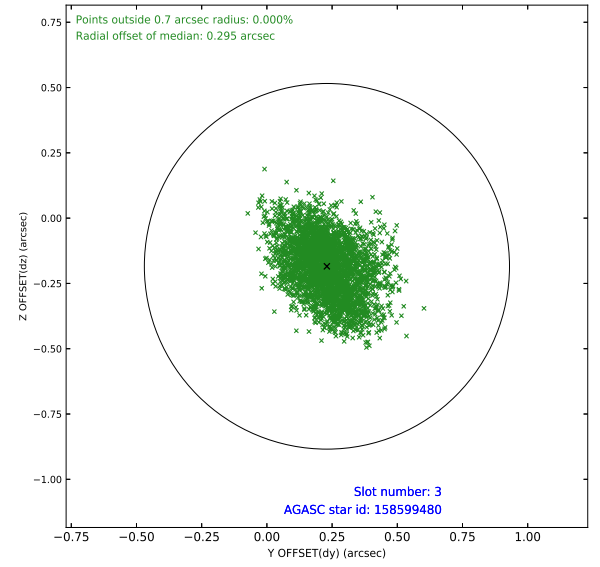
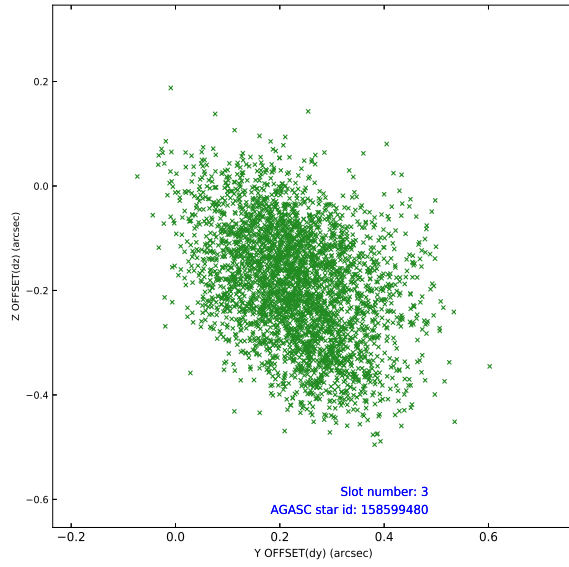


Slot Statistics

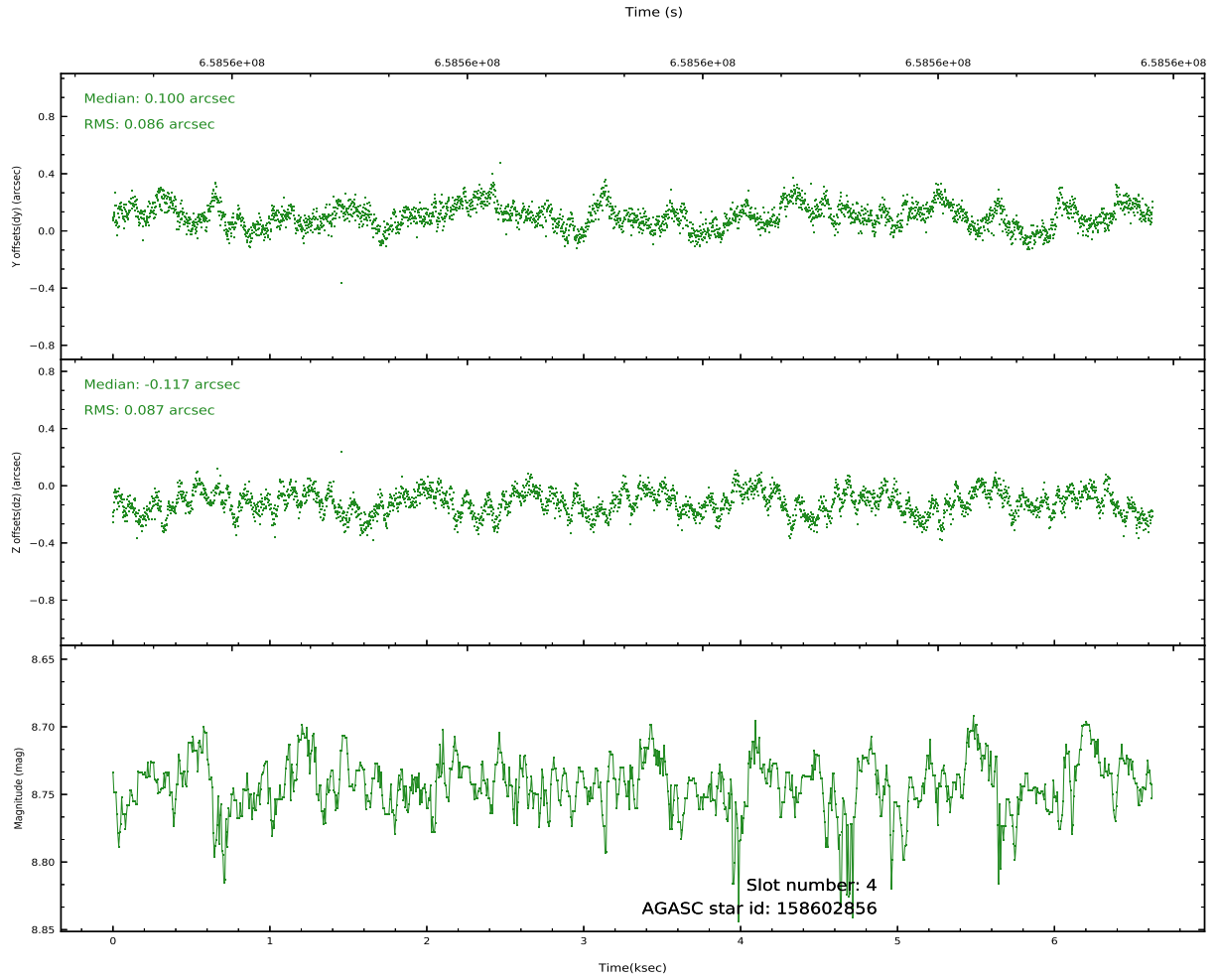
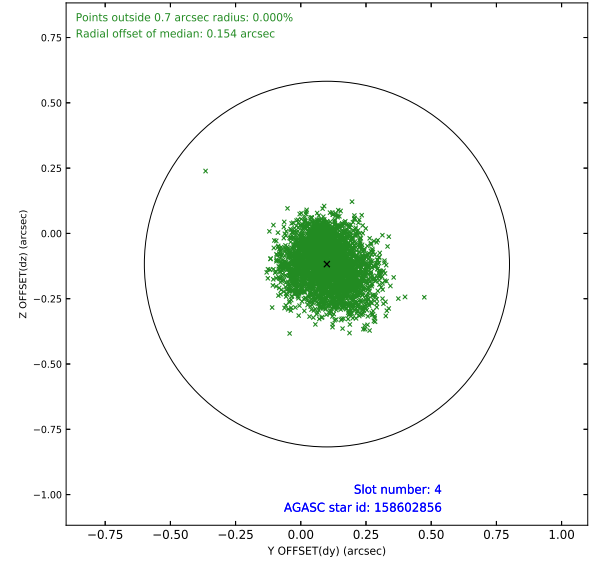
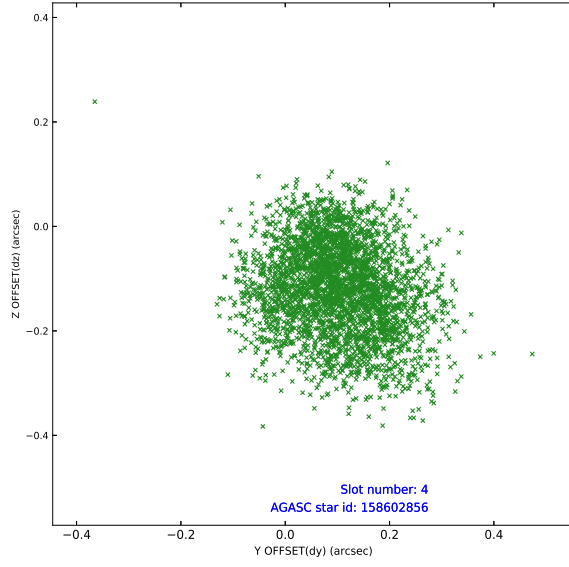
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	6.98	1616	1.000	0.126	-0.043	0.012	0.024	0.000000	0.000000	-763.83	-1741
1	FID		ACIS-S-4	7.11	1616	1.000	0.125	-0.048	0.010	0.017	0.000000	0.000000	2149.30	165
2	FID		ACIS-S-5	7.11	1616	1.000	-0.282	0.100	0.016	0.027	0.000000	0.000000	-1815.69	160
3	GUIDE	used	158599480	9.10	3232	1.000	0.230	-0.184	0.160	0.259	29.764241	19.569001	1655.64	-1826
4	GUIDE	used	158602856	8.74	3226	1.000	0.100	-0.117	0.132	0.203	30.588174	19.389934	2161.27	995
5	GUIDE	used	159002256	8.73	3230	1.000	-0.225	0.217	0.101	0.161	30.284406	20.518496	-1844.51	-235
6	GUIDE	used	159002352	9.53	3228	1.000	-0.336	0.084	0.139	0.222	30.776442	20.561524	-2085.66	1413
7	GUIDE	used	159002816	9.06	3228	1.000	0.220	0.003	0.135	0.218	29.782021	20.107562	-285.89	-1858

2.4 Star Slots

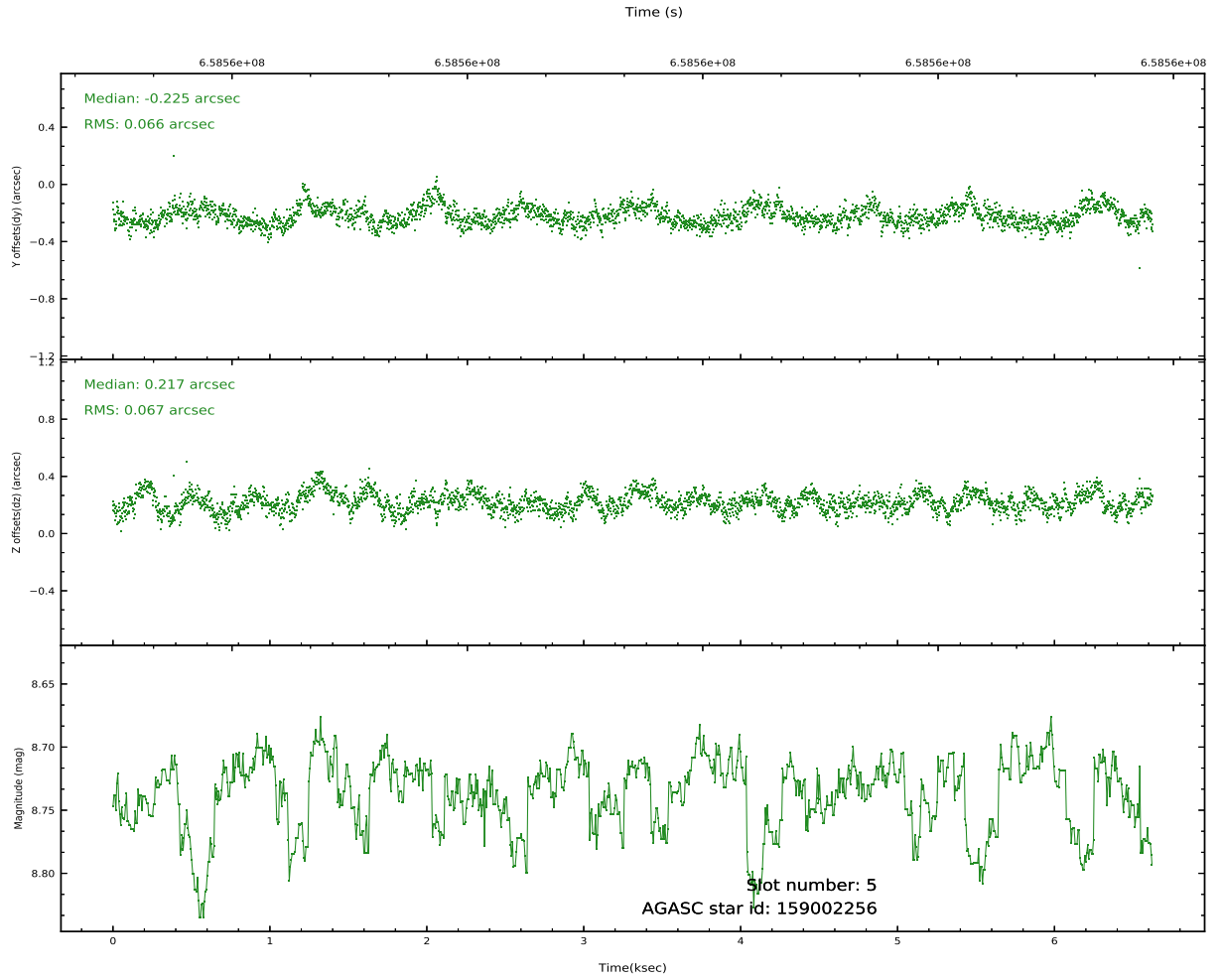
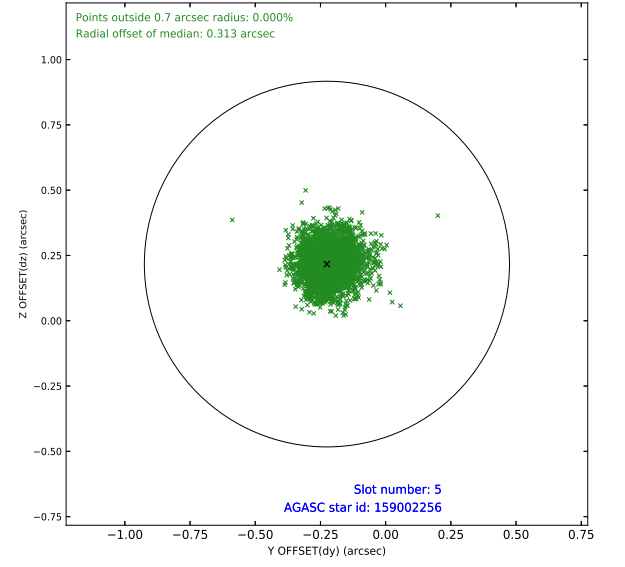
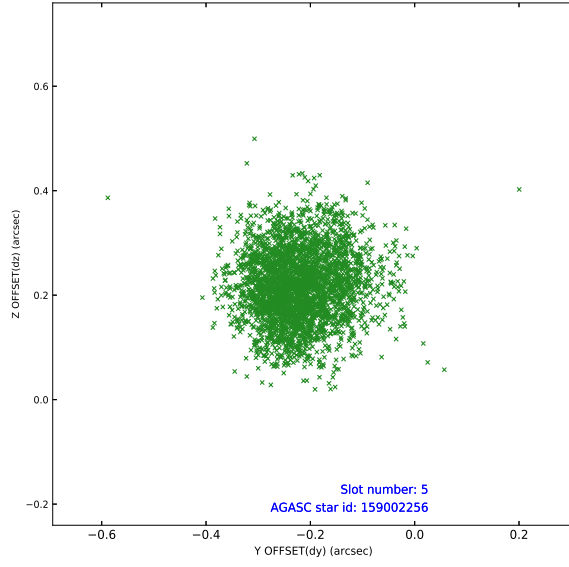
2.4.1 Slot 3



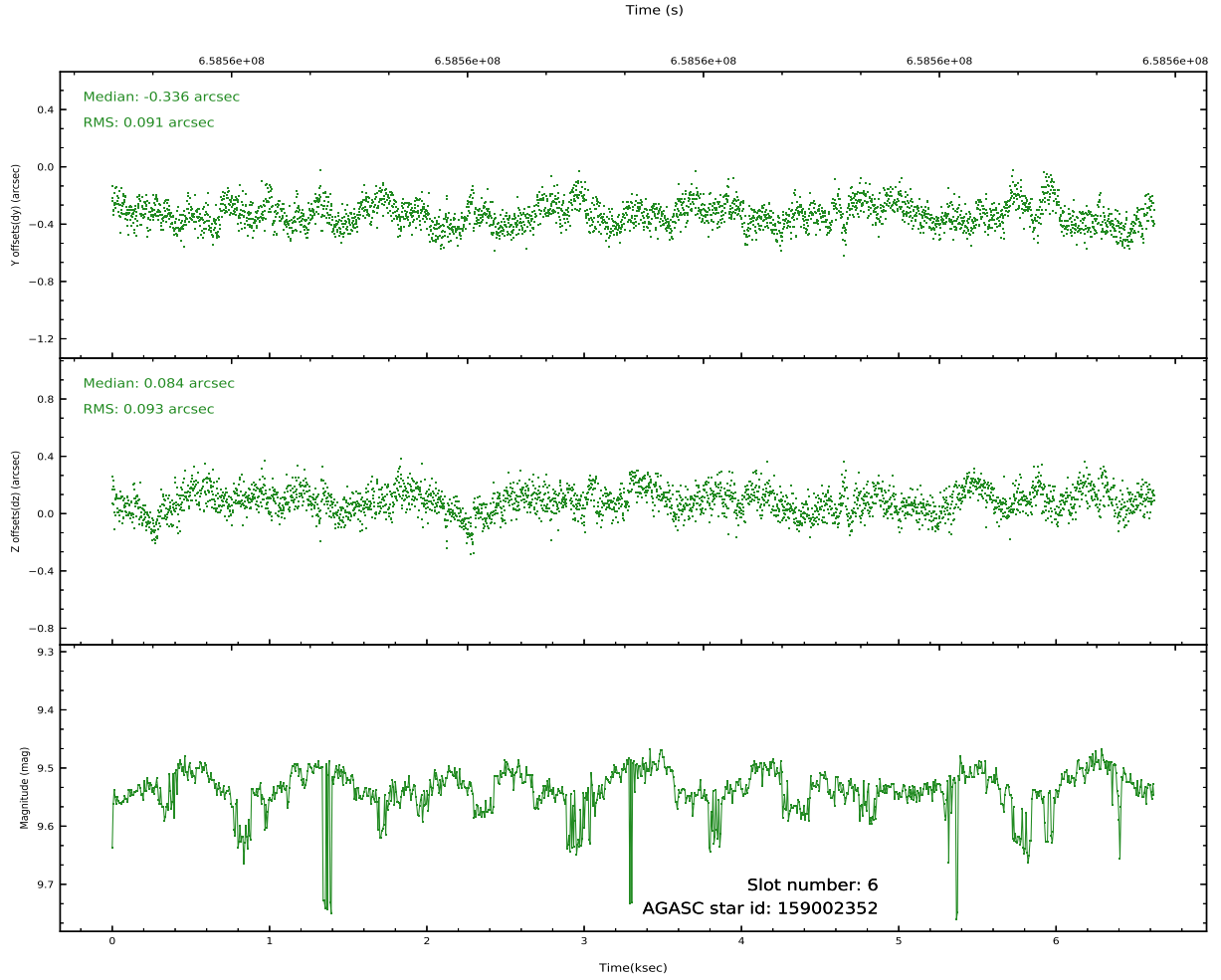
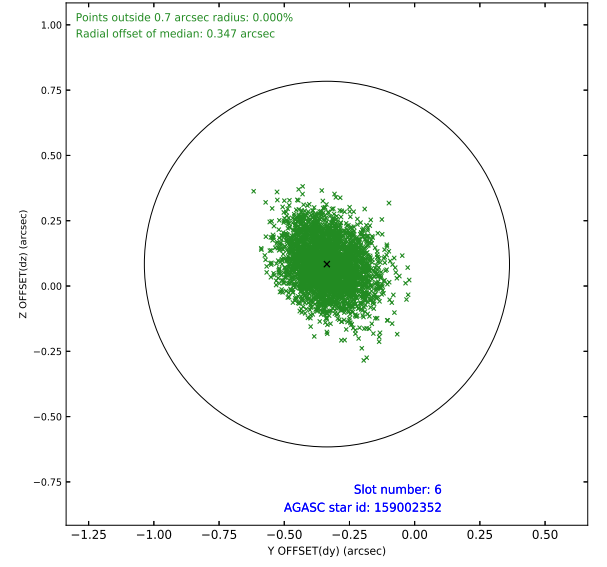
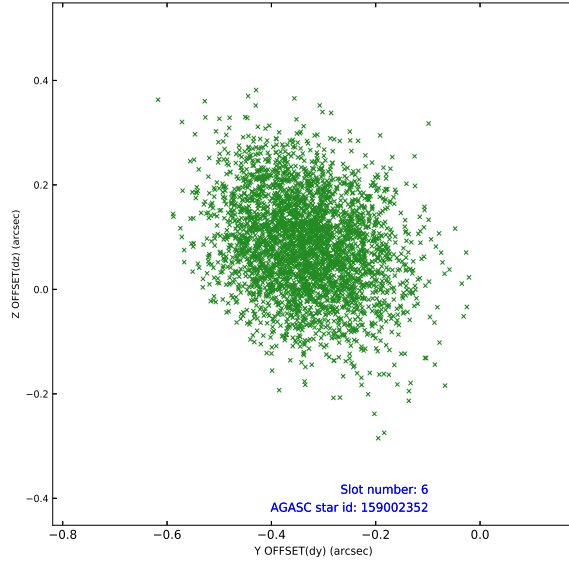
2.4.2 Slot 4



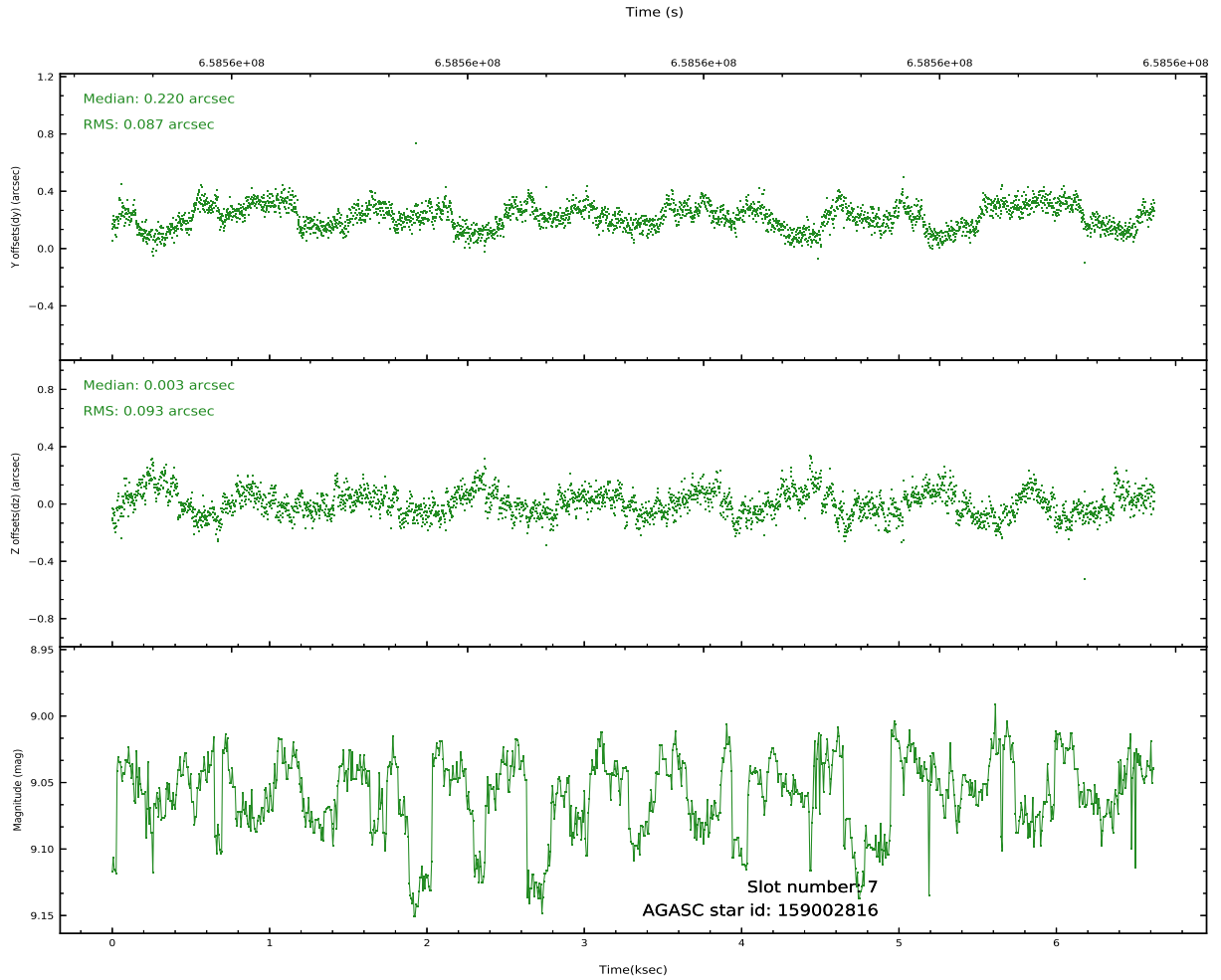
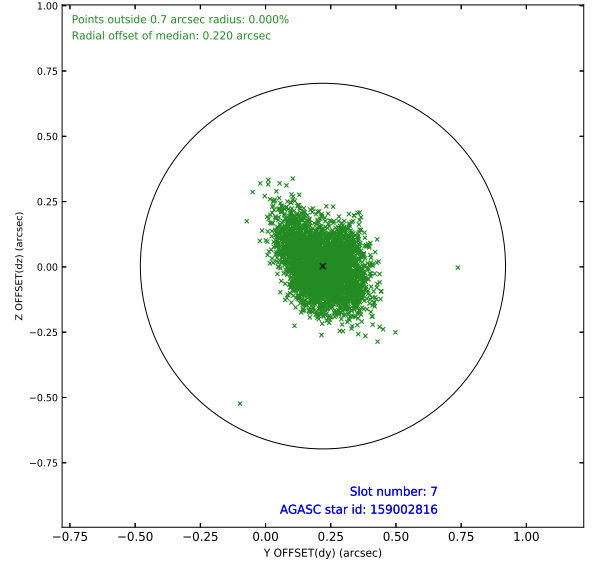
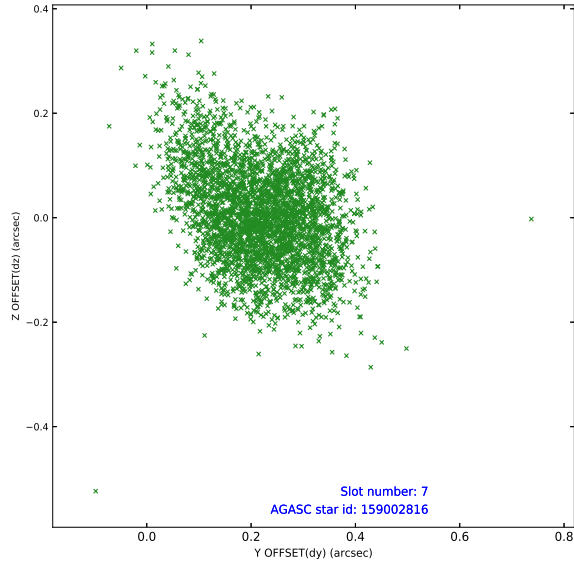
2.4.3 Slot 5



2.4.4 Slot 6

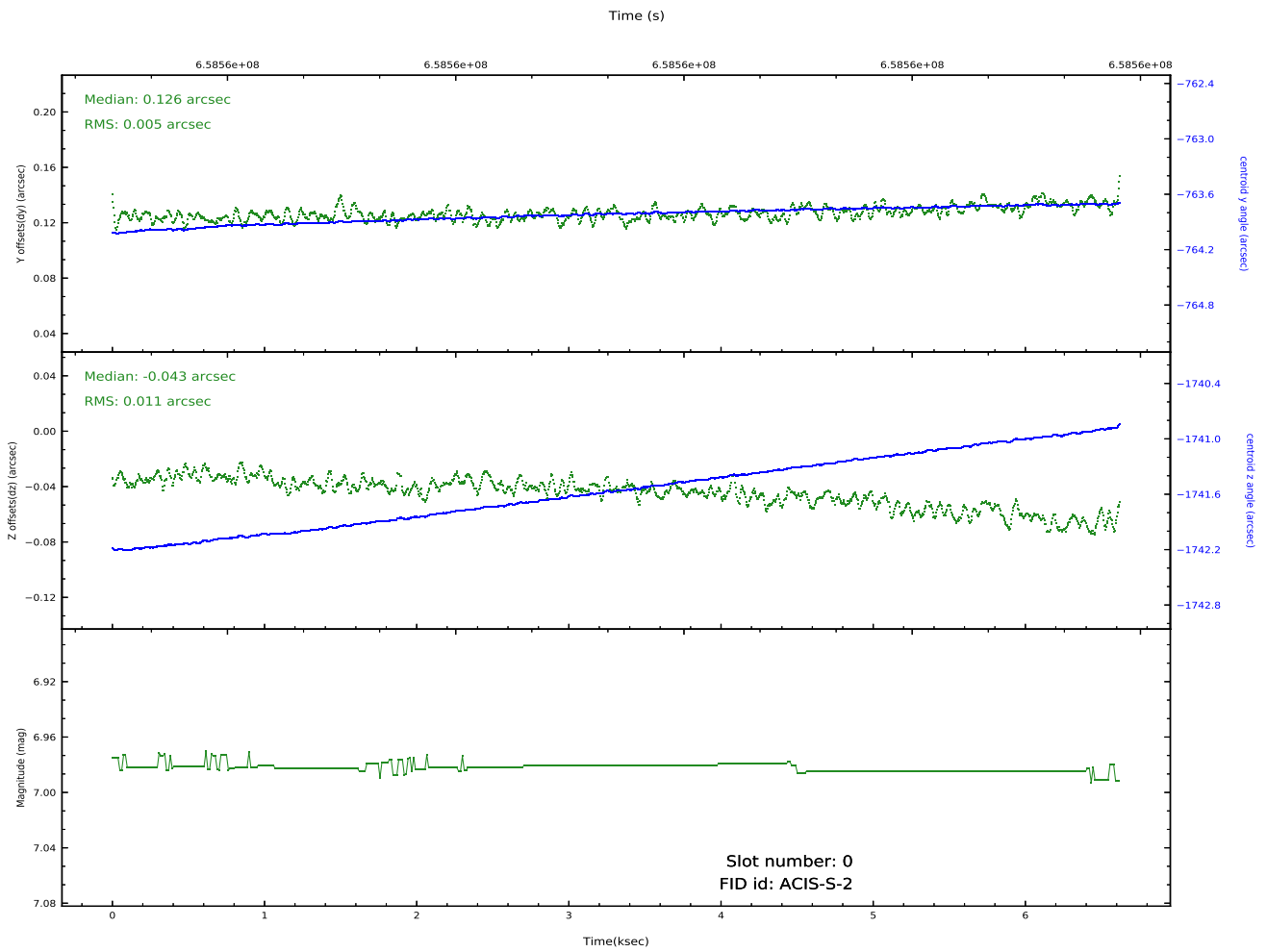
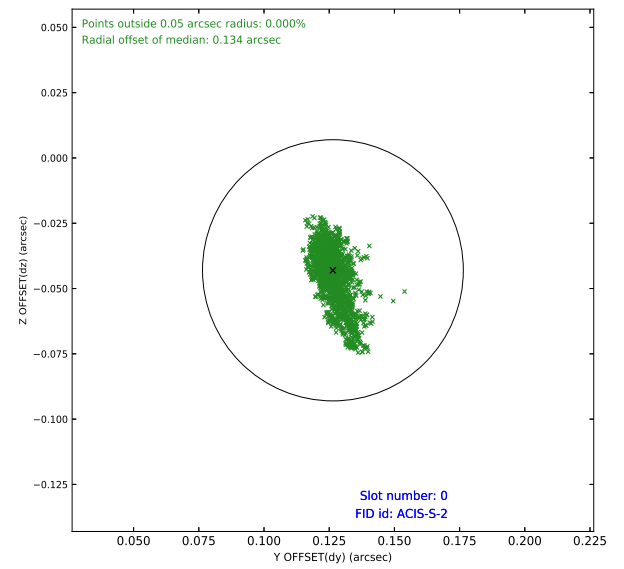
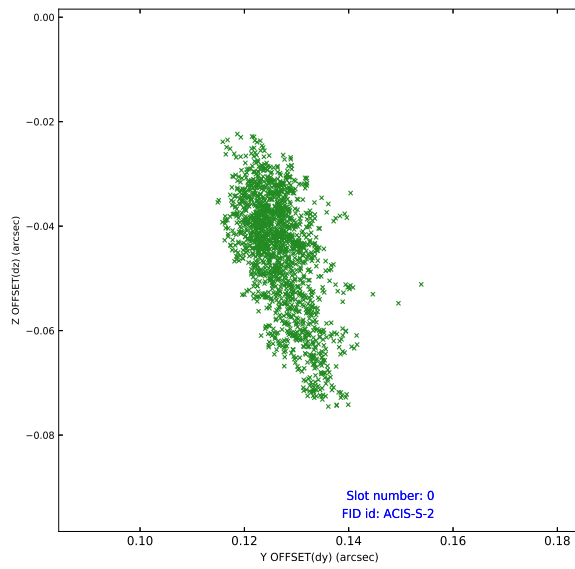


2.4.5 Slot 7

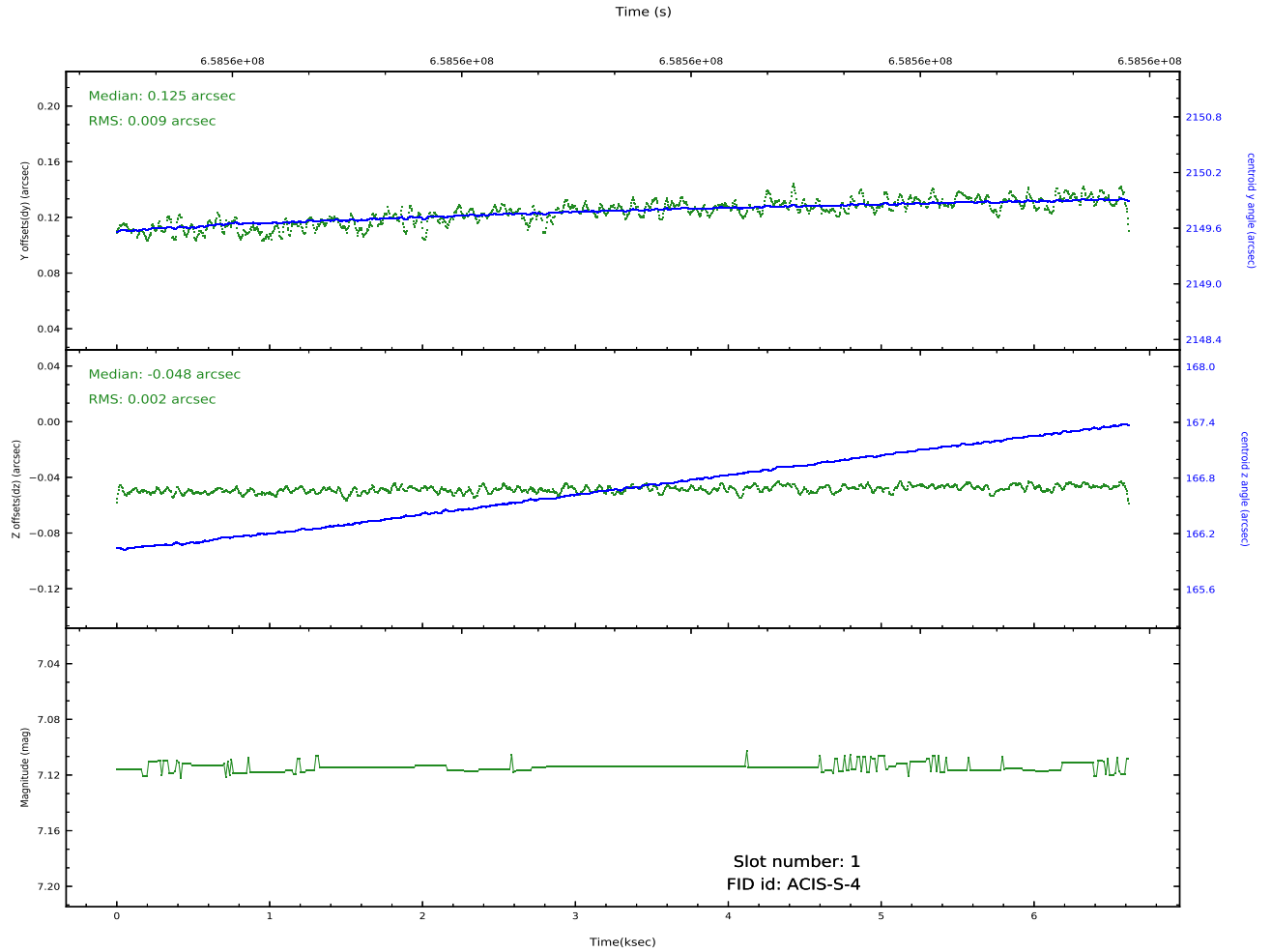
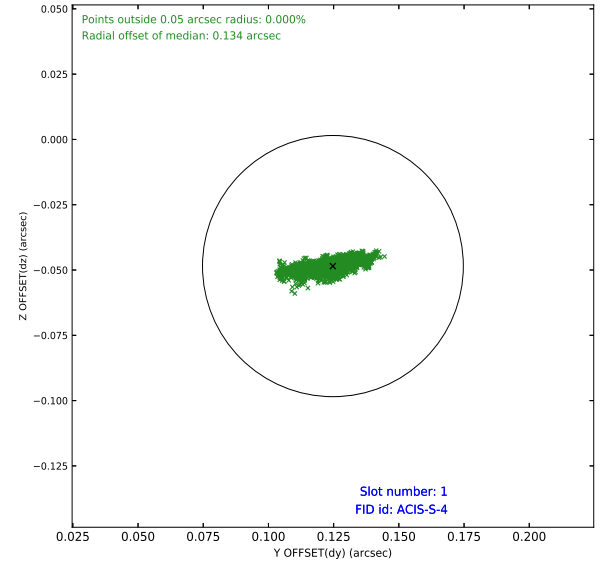
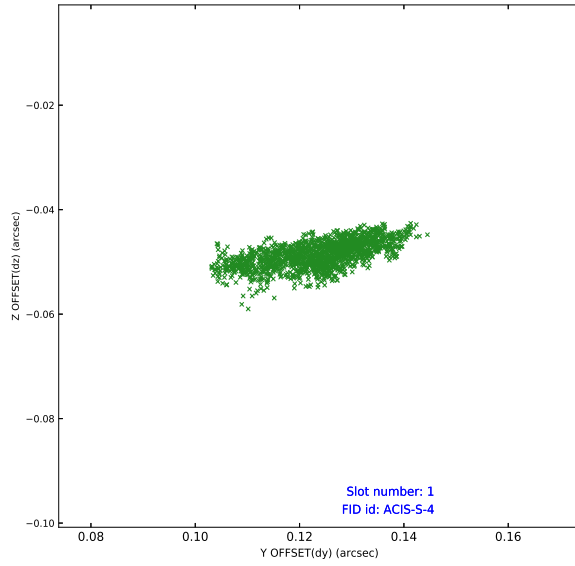


2.5 FID Slots

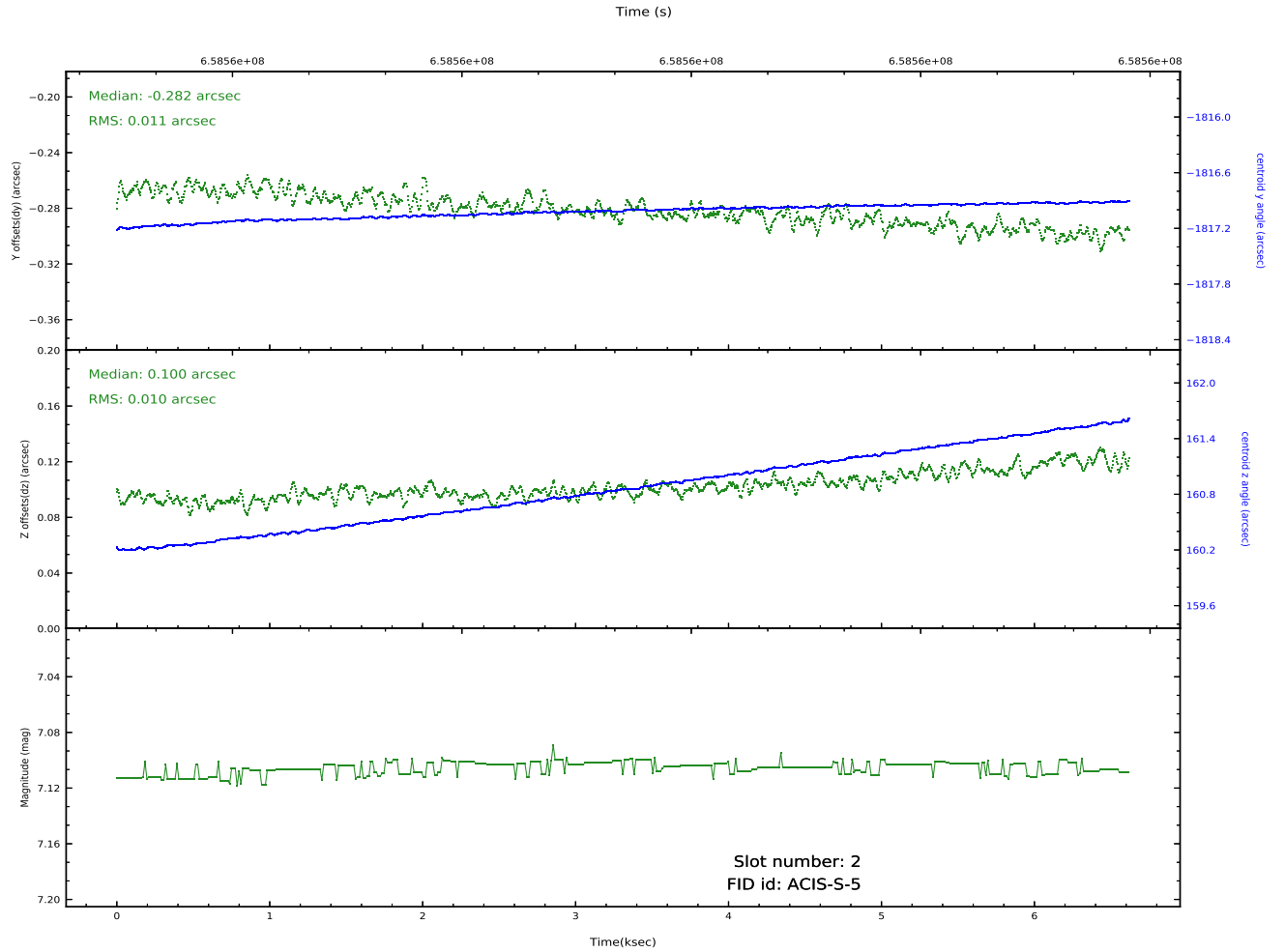
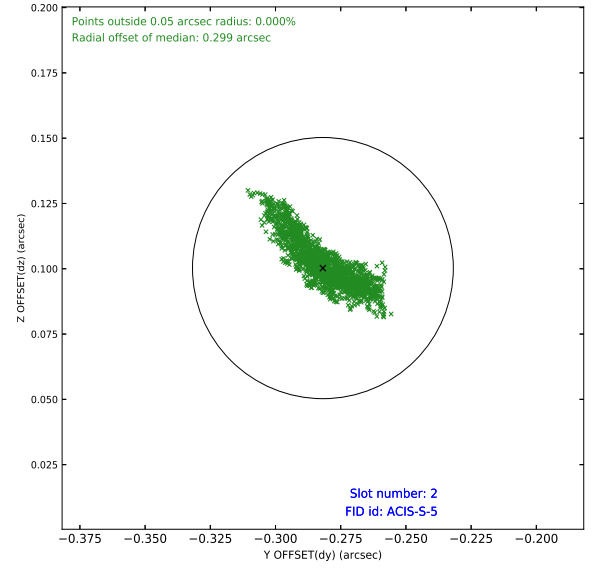
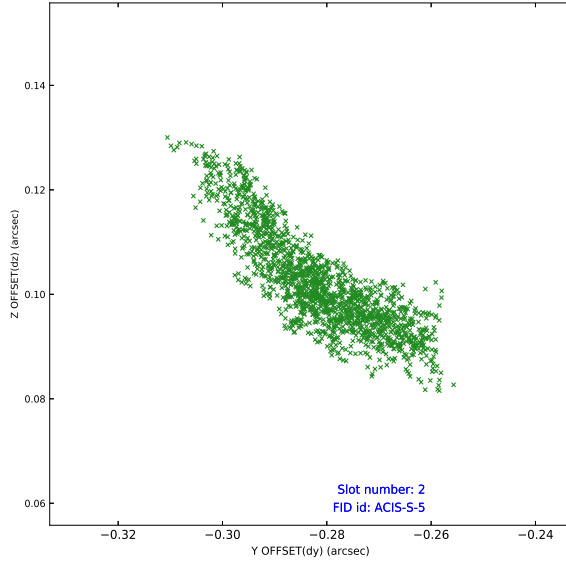
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	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	6.5534000505209

A.2 Comments