

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20288 - L2 Version 2
Chandra X-Ray Center

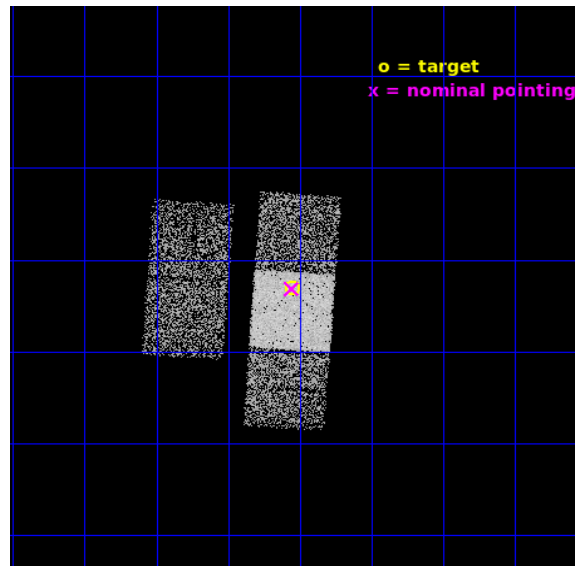
L2 Processing Date : Oct 25 2020

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1 Front

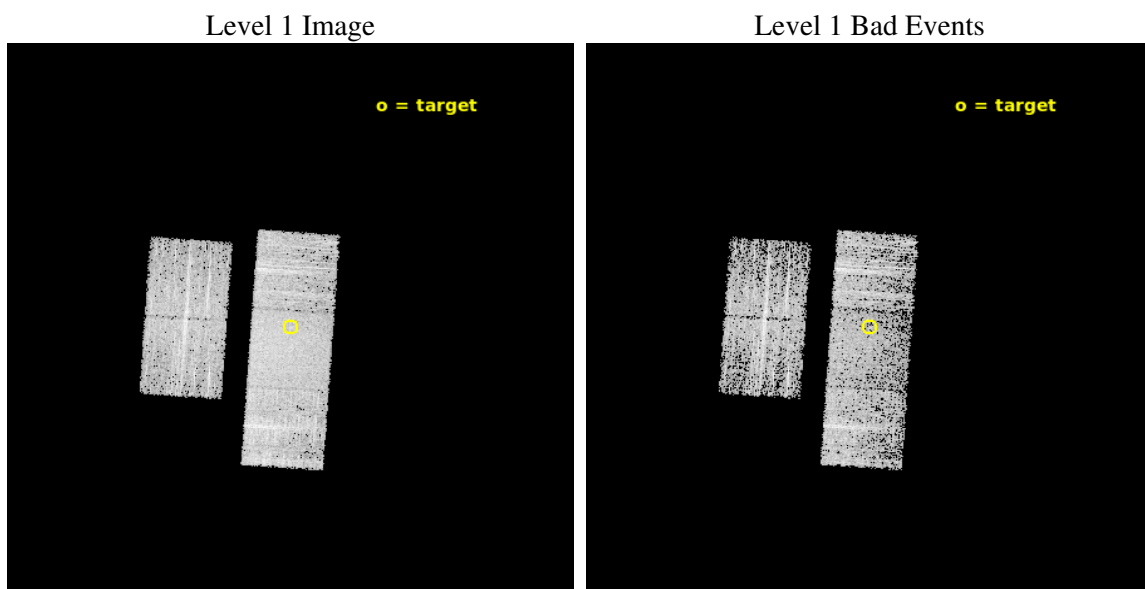
seq_num	502987	Sequence number
obs_id	20288	Observation id
title	Where Have All the Central Compact Objects Gone?	Proposal title
observer	Eric Gotthelf	Principal investigator
object	PSR J1851-0053	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	282.762917	Observer's specified target RA [deg]
dec_targ	-0.885361	Observer's specified target Dec [deg]
ra_nom	282.7639615113	Nominal RA [deg]
dec_nom	-0.88571565152507	Nominal Dec [deg]
roll_nom	93.917628973848	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3555.7000274658	Sum of GTIs [s]
livetime	3509.2421889387	Livetime [s]
ontime2	3555.7000274658	Sum of GTIs [s]
ontime3	3555.7000274658	Sum of GTIs [s]
ontime6	3555.7000274658	Sum of GTIs [s]
ontime7	3555.7000274658	Sum of GTIs [s]
ontime8	3555.7000274658	Sum of GTIs [s]
l2events	25674	Number of level 2 events



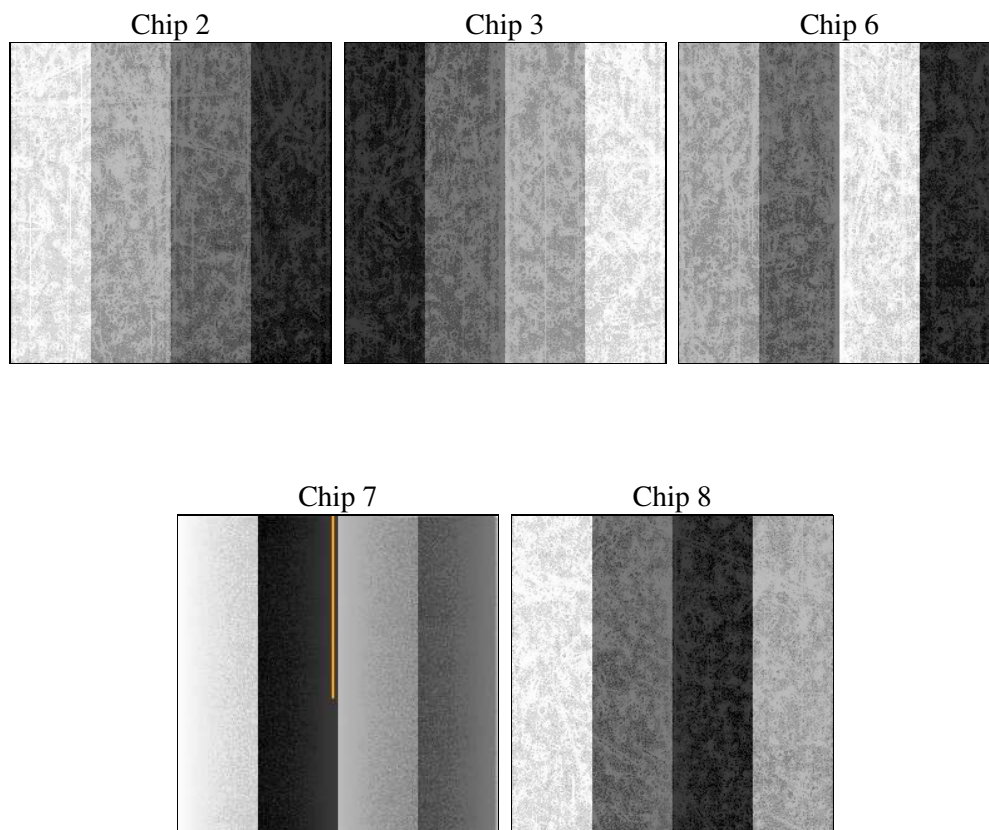
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3500.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	3555.7000274658	Sum of GTIs [s]
caldsver	4.9.3	 	ontime2	3555.7000274658	Sum of GTIs [s]
date	2020-10-25T05:20:54	Date and time of file creation	ontime3	3555.7000274658	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	3555.7000274658	Sum of GTIs [s]
			ontime7	3555.7000274658	Sum of GTIs [s]
			ontime8	3555.7000274658	Sum of GTIs [s]
			l1events	148483	Number of level 1 events

2.1.4 Events

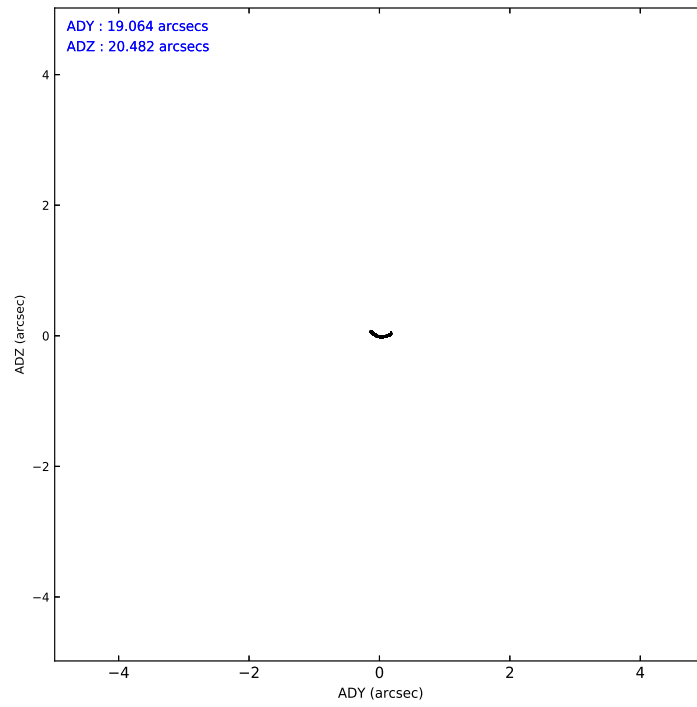
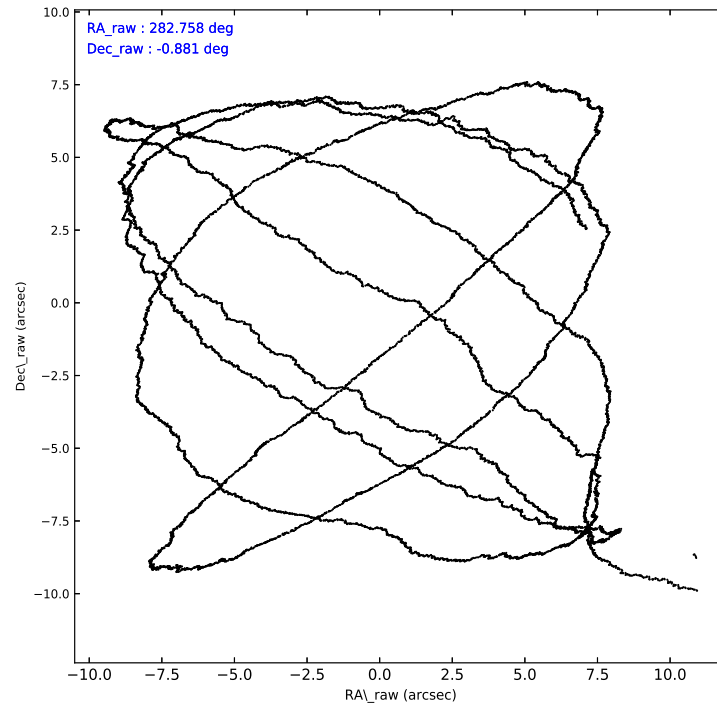
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	24755	26378	28539	34228	34583
rejected events	21756	23483	25200	19208	25658
rejected %	87%	89%	88%	56%	74%

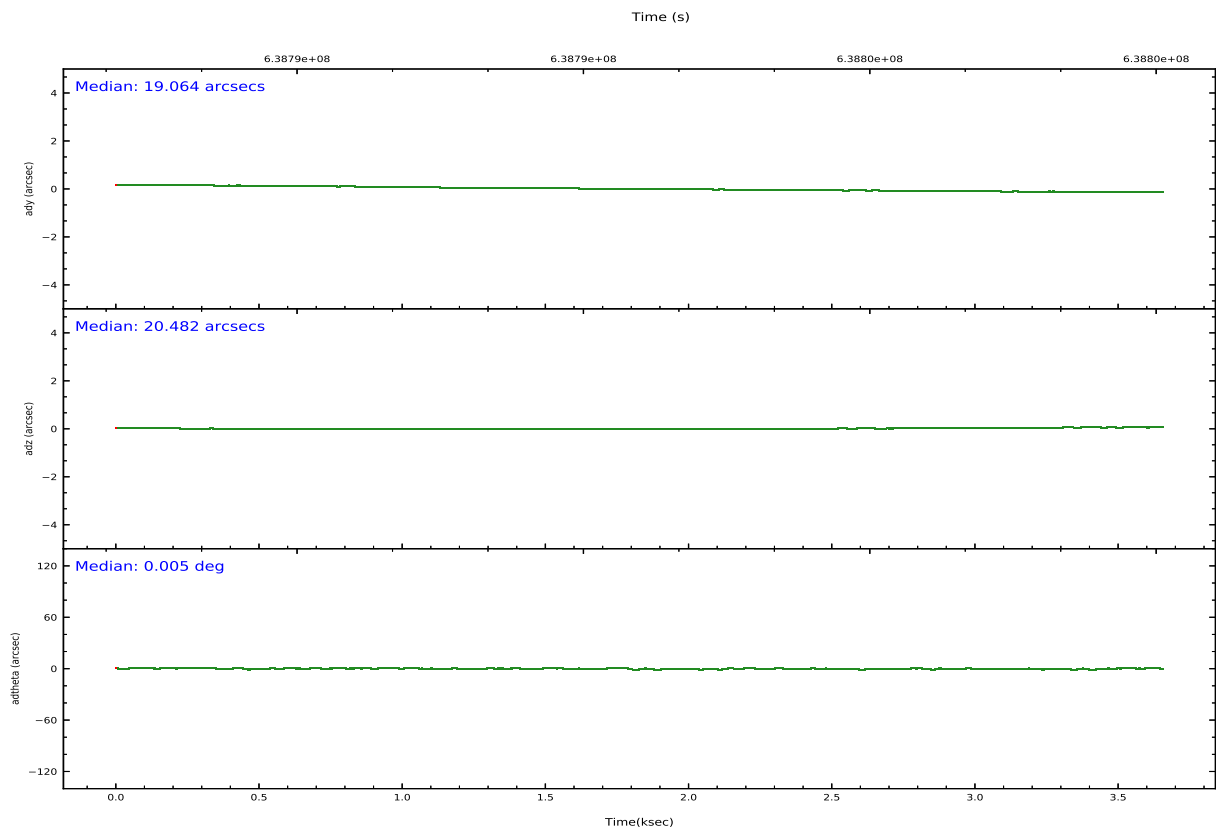
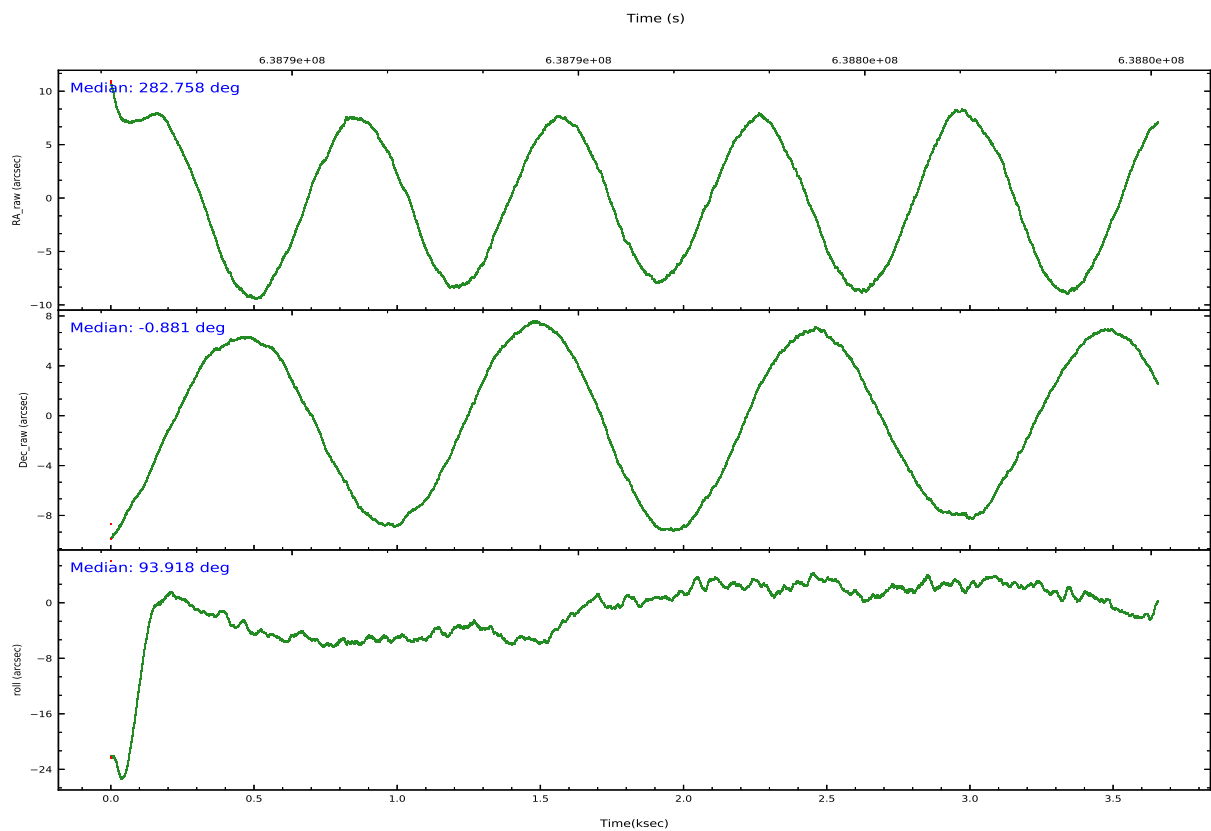
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	1148	1105	1224	1282	2574
	4%	4%	4%	3%	7%
grade 1 events	15	10	13	46	28
	0%	0%	0%	0%	0%
grade 2 events	727	656	765	3196	2113
	2%	2%	2%	9%	6%
grade 3 events	292	277	275	1208	924
	1%	1%	0%	3%	2%
grade 4 events	264	272	307	1181	914
	1%	1%	1%	3%	2%
grade 5 events	1105	1206	1221	3410	1822
	4%	4%	4%	9%	5%
grade 6 events	570	593	776	8181	2405
	2%	2%	2%	23%	6%
grade 7 events	20634	22259	23958	15724	23803
	83%	84%	83%	45%	68%

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	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	282.773243	282.7639615113	CCD I2 on	O1	Y
[deg] Pointing Dec	-0.903217	-0.88571565152507	CCD I3 on	O2	Y
[deg] Pointing Roll	93.768884	93.917628973848	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	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	638792524.184000	638791487.73958	CCD S5 on	N	N
Observation start date	2018-03-30T10:20:55	2018-03-30T10:04:47	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	638796024.184000	638797099.10241	On-chip summing requested	N	N
Observation end date	2018-03-30T11:19:15	2018-03-30T11:38:19	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



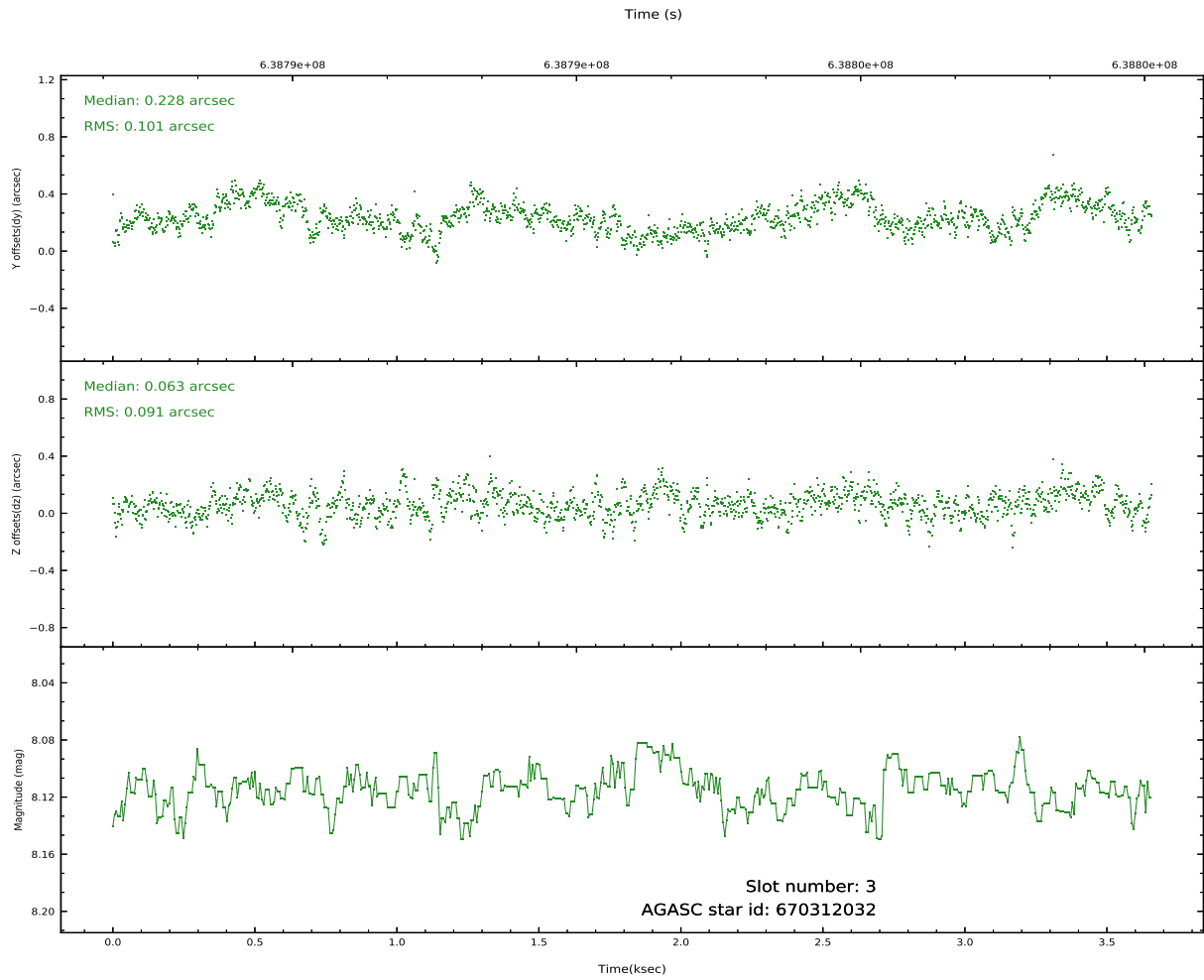
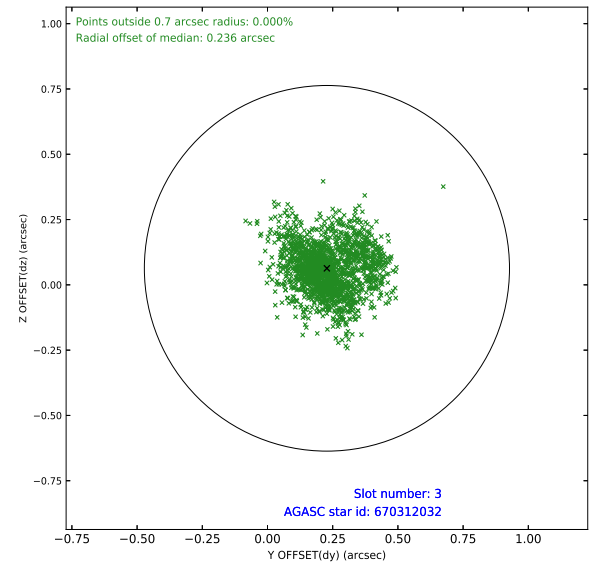
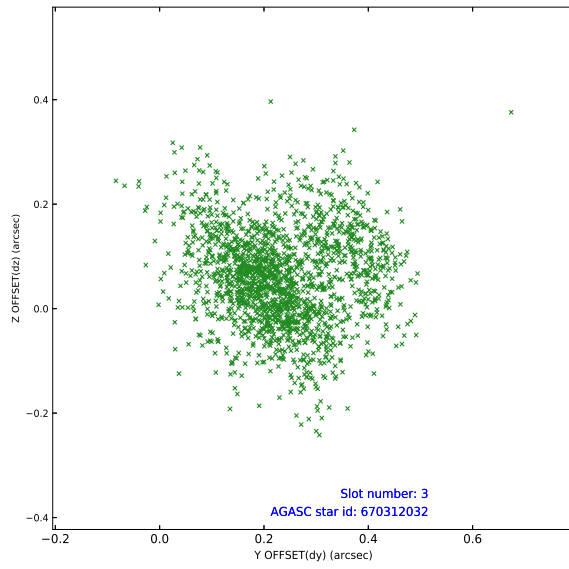


Slot Statistics

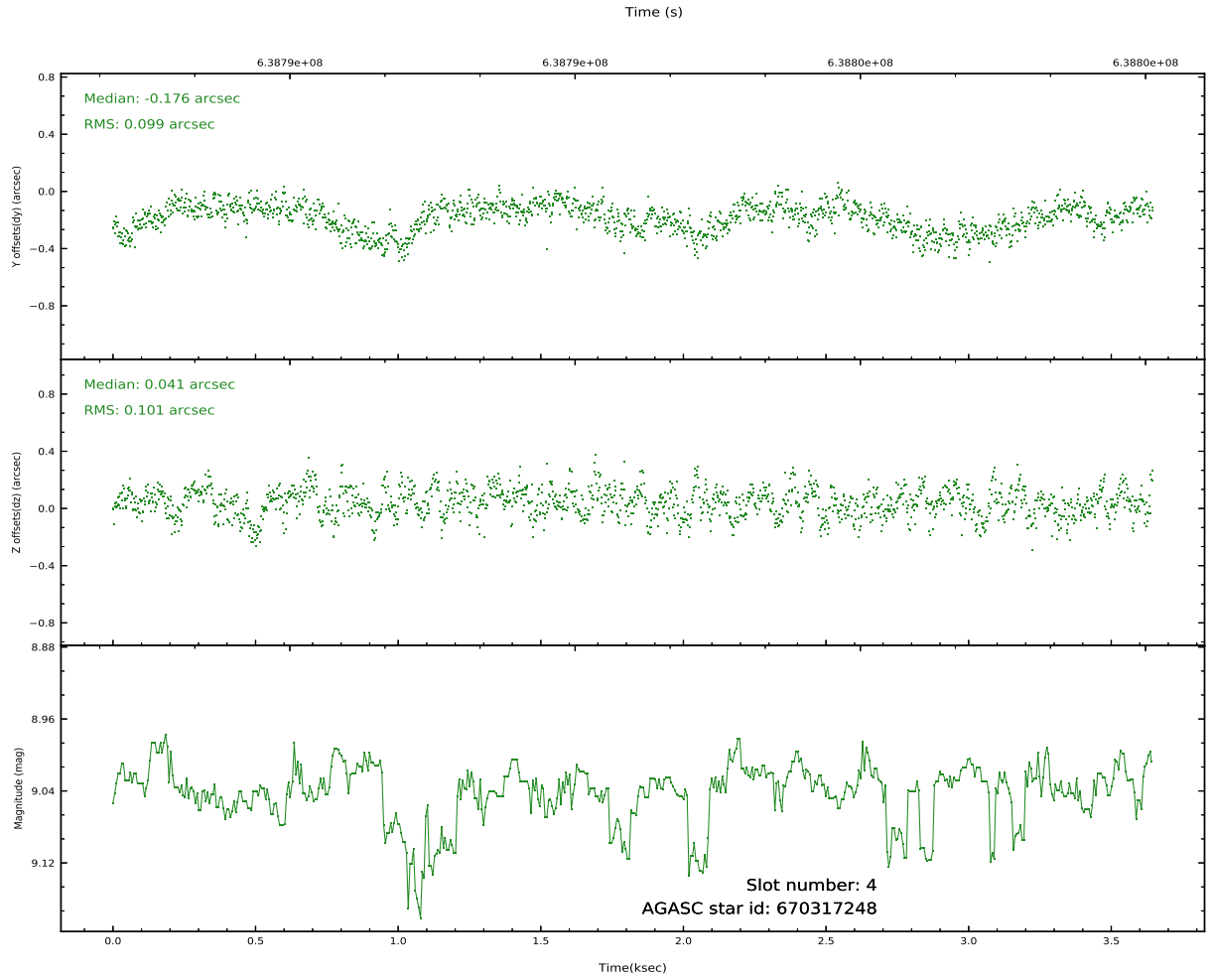
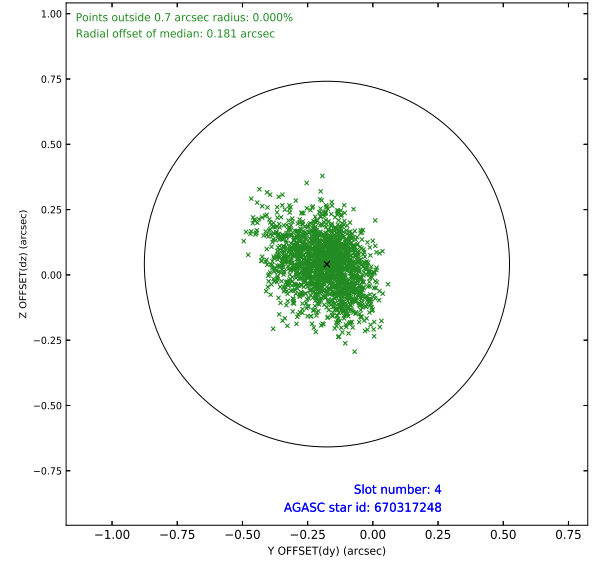
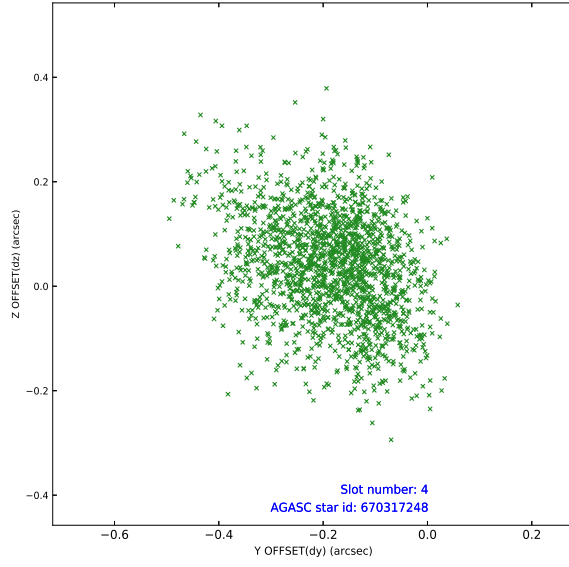
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-4	7.15	893	1.000	0.216	0.015	0.006	0.012	0.000000	0.000000	2141.43	166
1	FID		ACIS-S-5	7.15	892	1.000	-0.210	0.021	0.007	0.013	0.000000	0.000000	-1822.98	160
2	FID		ACIS-S-6	7.31	892	1.000	-0.034	-0.022	0.007	0.012	0.000000	0.000000	387.68	803
3	GUIDE	used	670312032	8.11	1784	1.000	0.228	0.063	0.149	0.228	282.314405	-0.981452	-172.21	1666
4	GUIDE	used	670317248	9.04	1778	1.000	-0.176	0.041	0.150	0.247	282.282657	-0.892294	155.04	1760
5	GUIDE	used	670309216	9.37	1783	1.000	0.019	-0.154	0.204	0.306	282.086973	-0.405754	1949.49	2348
6	GUIDE	used	670303584	7.52	1784	1.000	-0.201	-0.163	0.108	0.202	282.662062	-0.360708	1976.45	272
7	GUIDE	used	670303120	8.56	1780	1.000	0.136	0.218	0.157	0.287	283.028951	-0.220247	2394.12	-1079

2.4 Star Slots

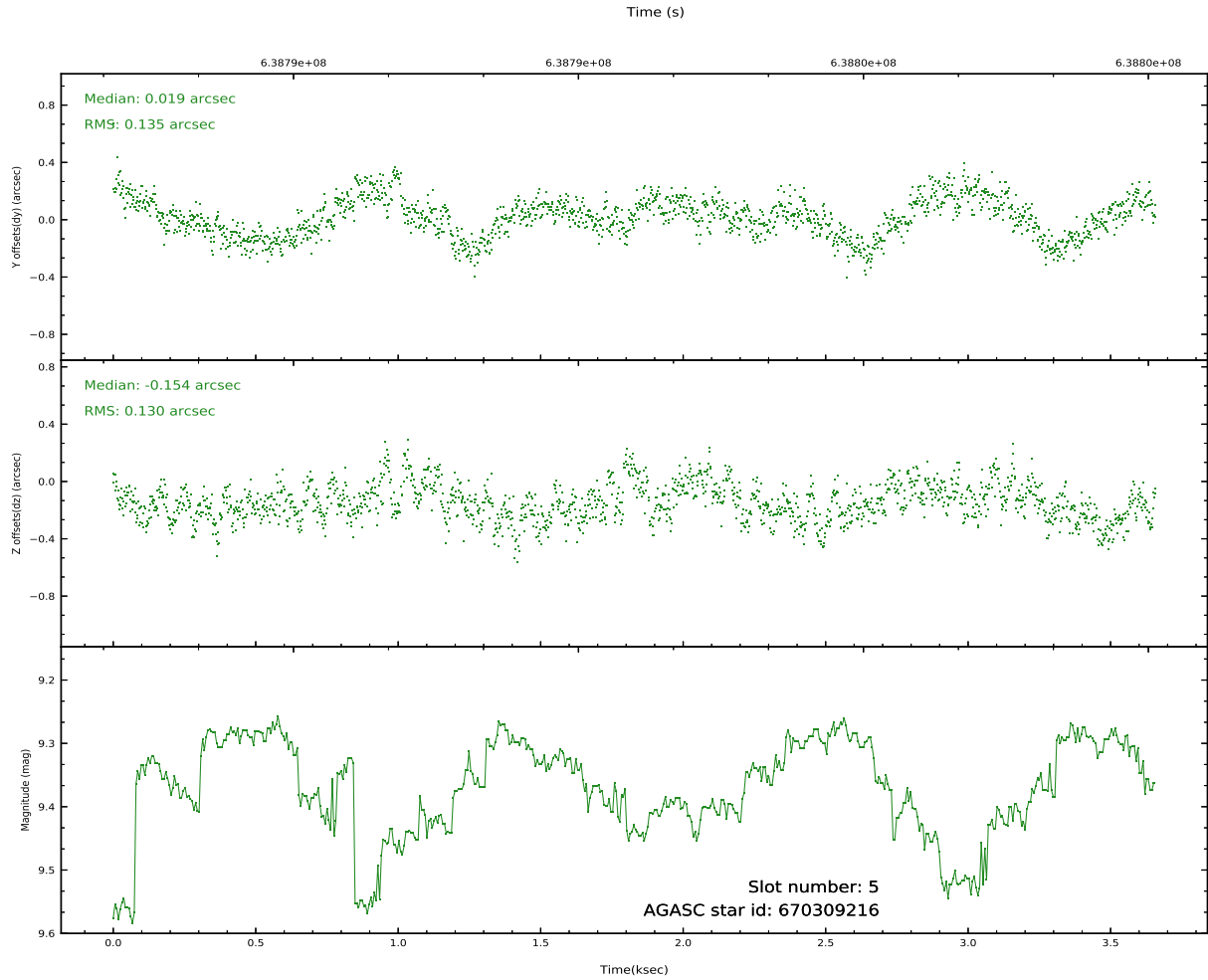
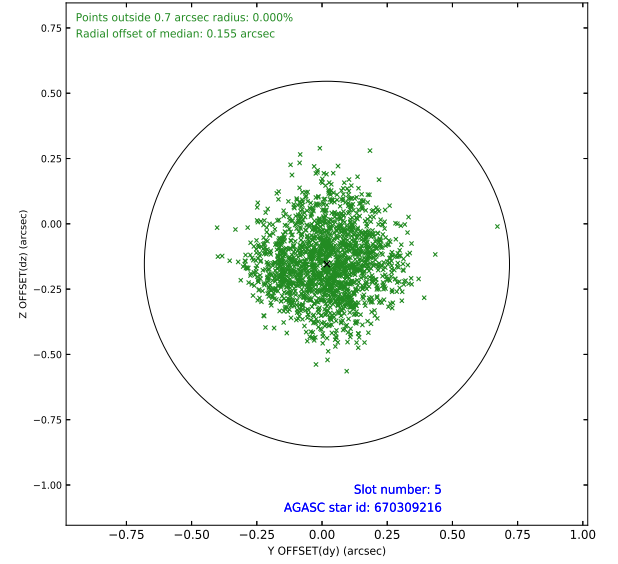
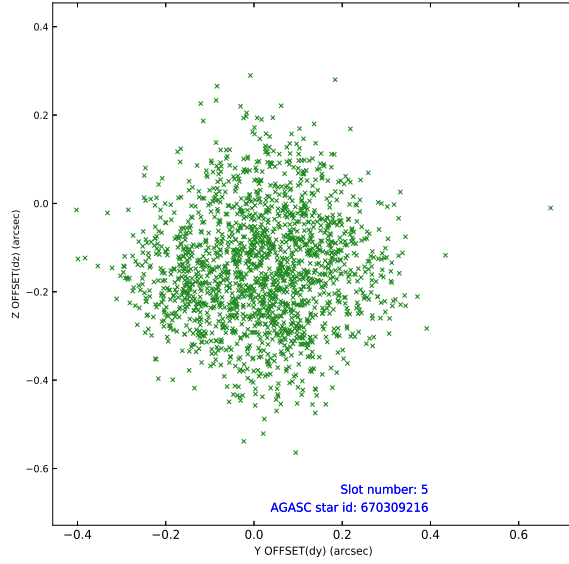
2.4.1 Slot 3



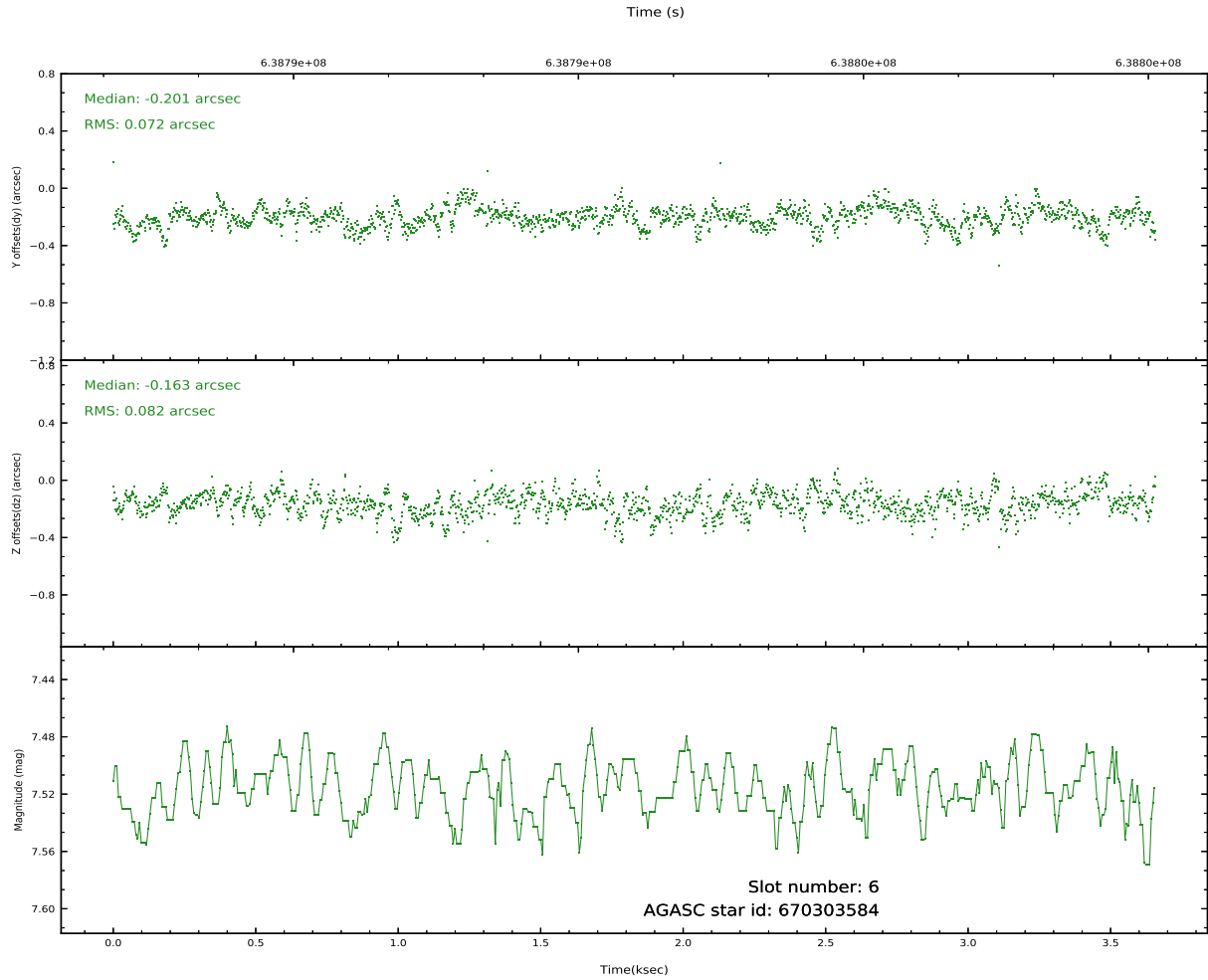
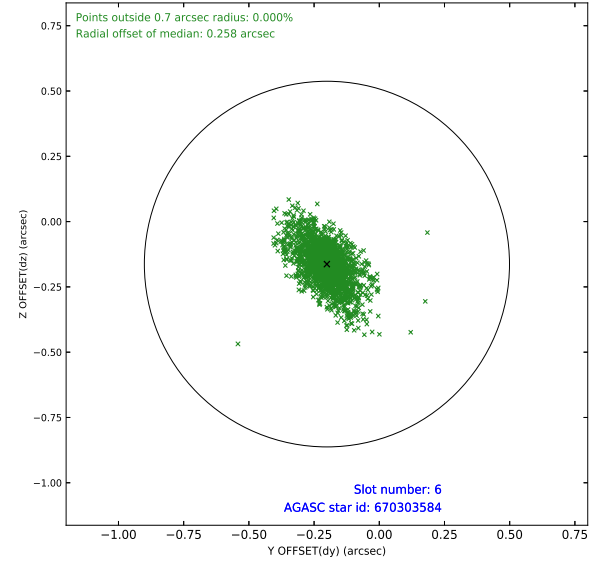
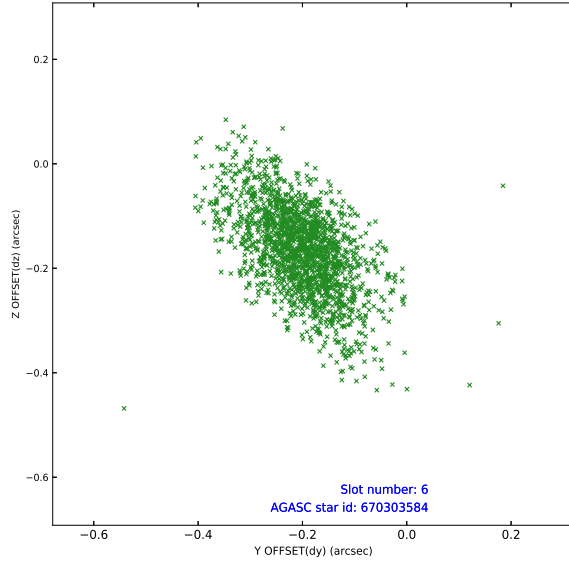
2.4.2 Slot 4



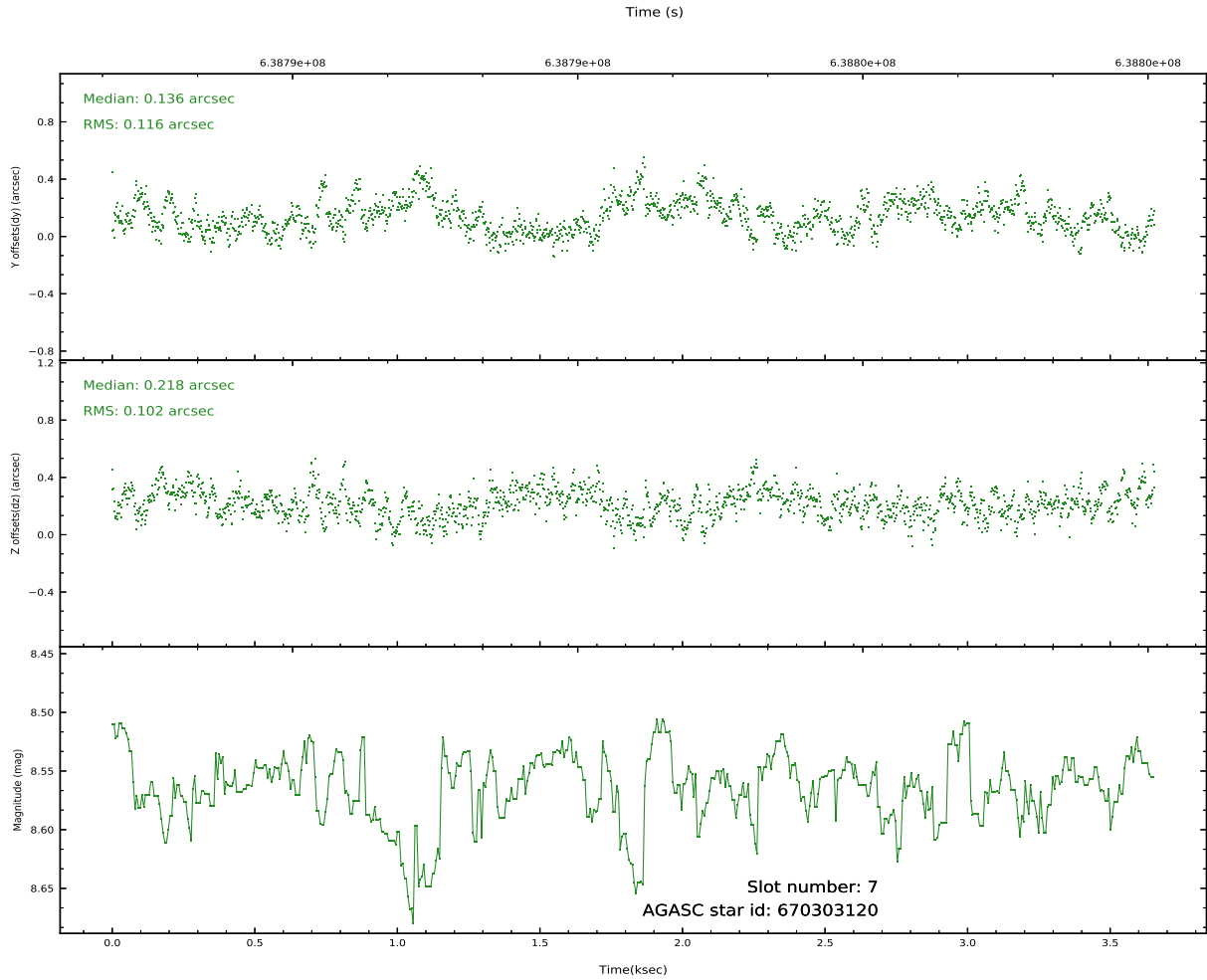
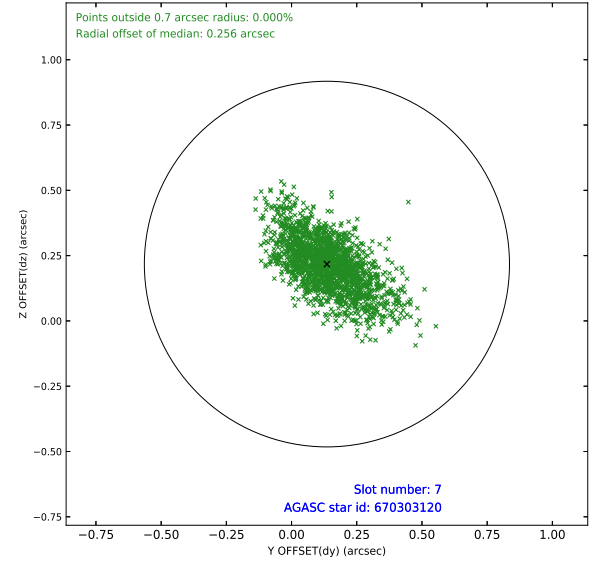
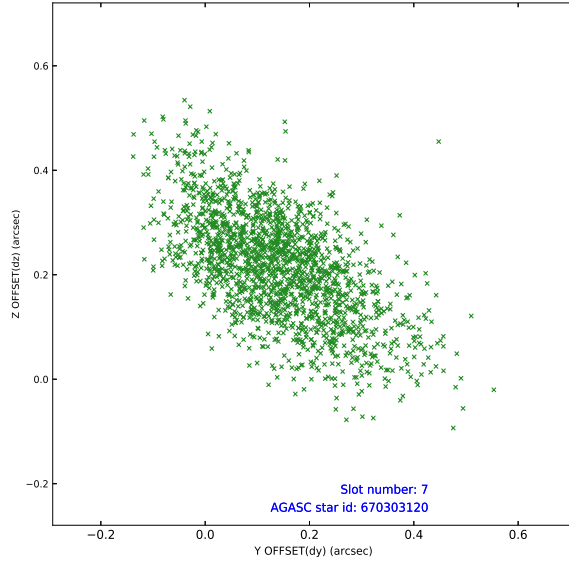
2.4.3 Slot 5



2.4.4 Slot 6

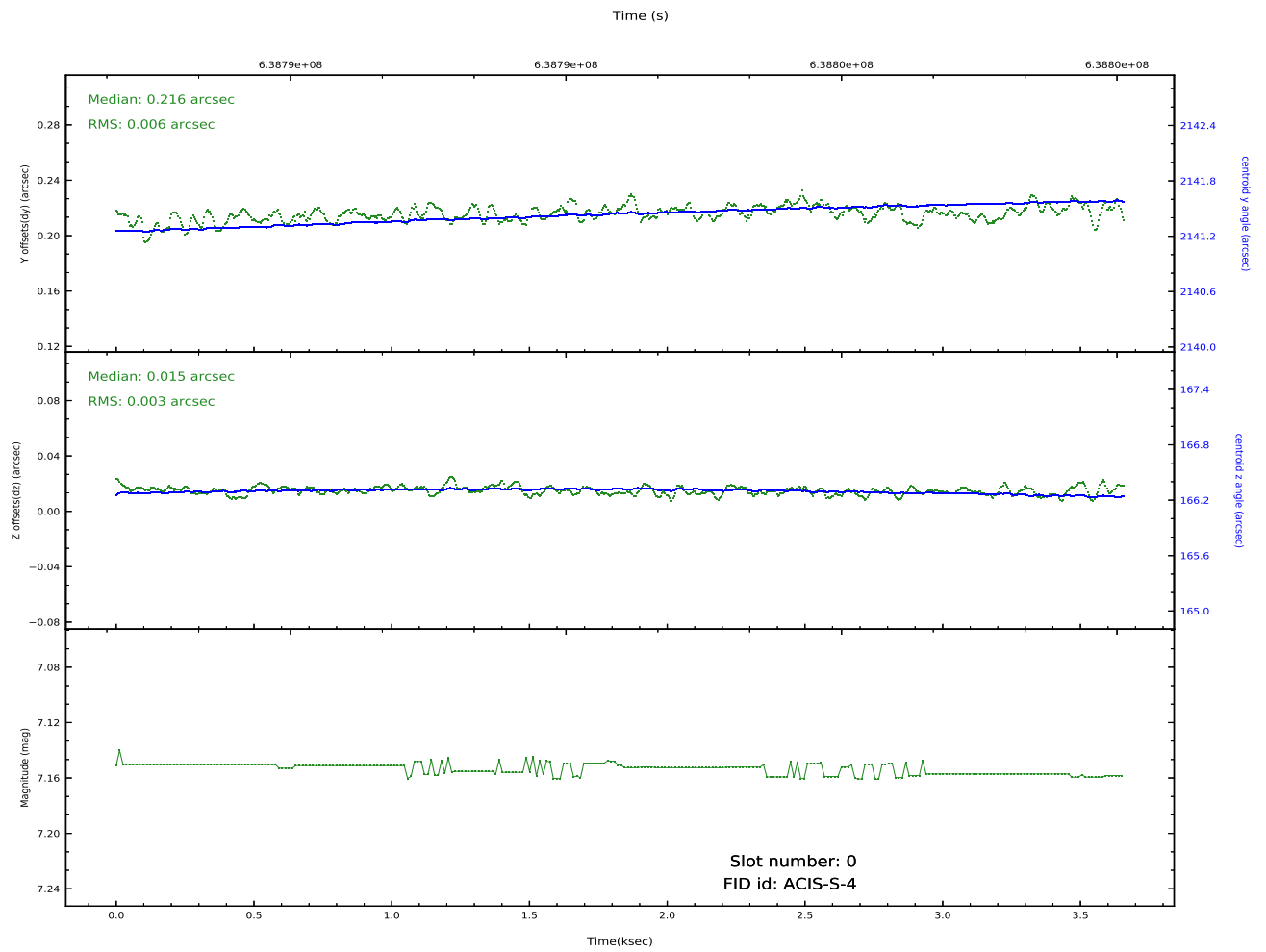
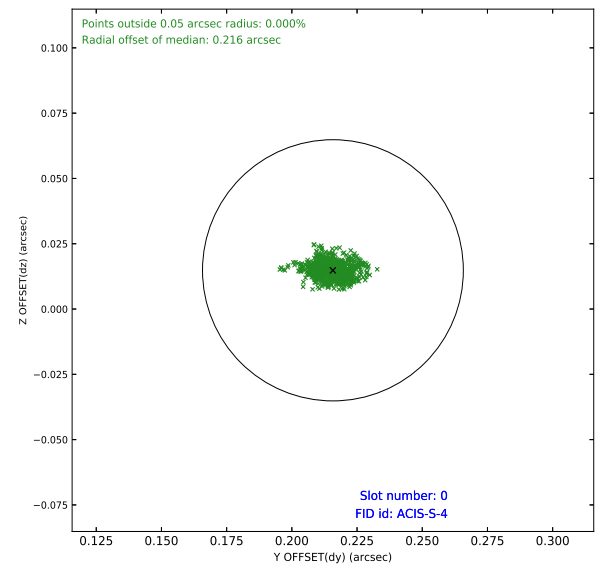
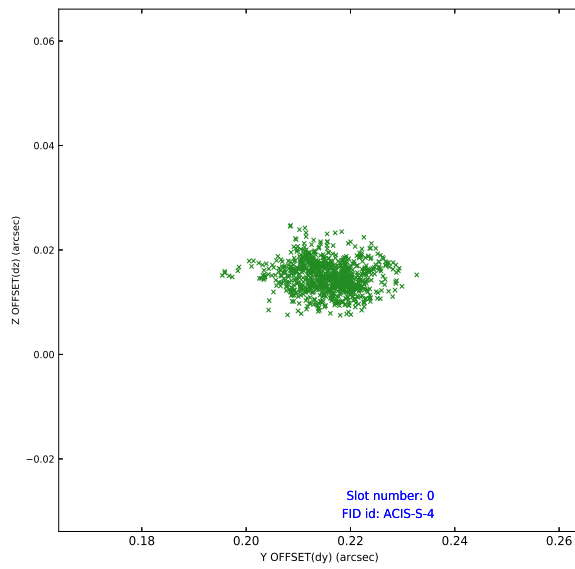


2.4.5 Slot 7

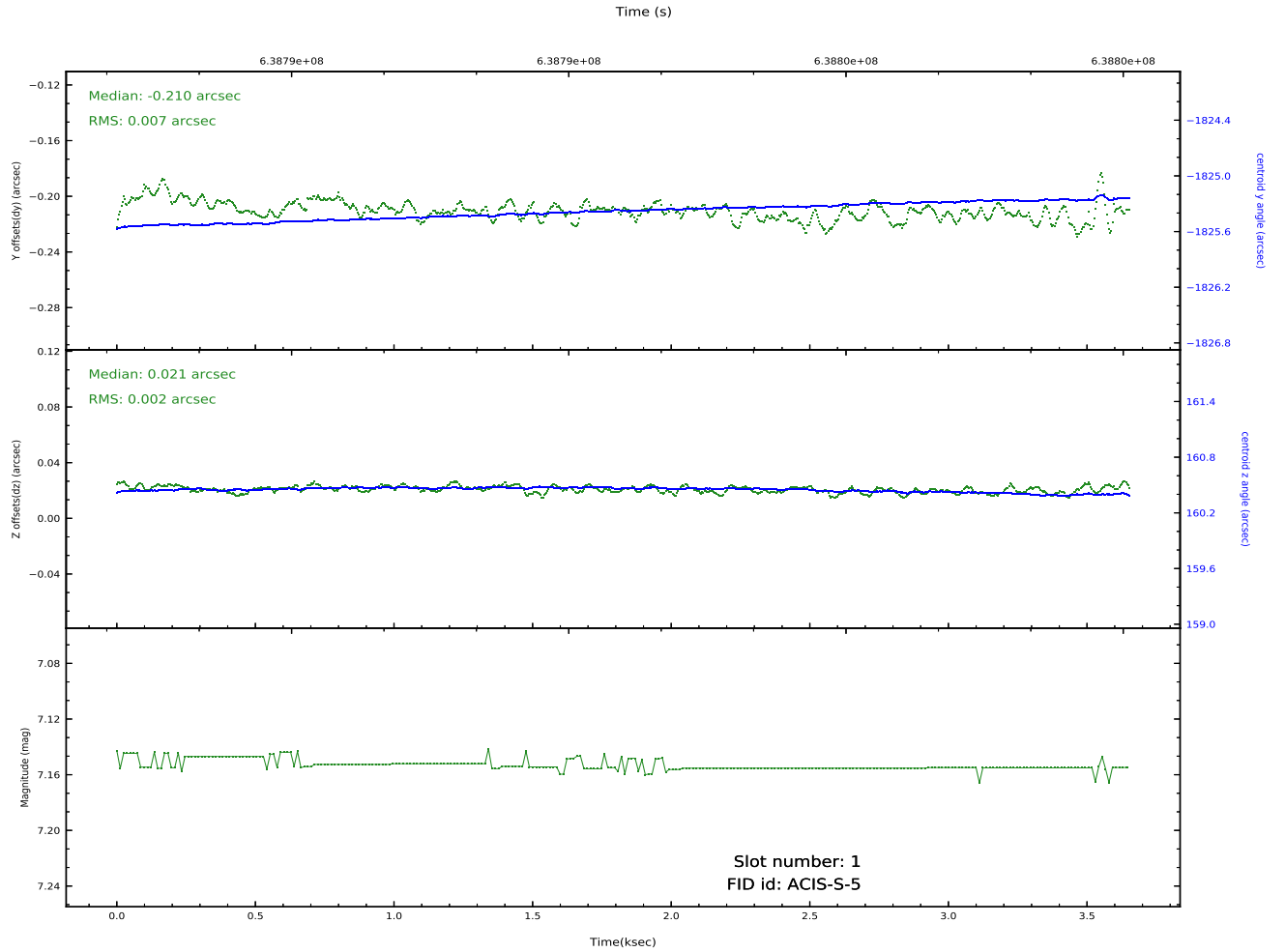
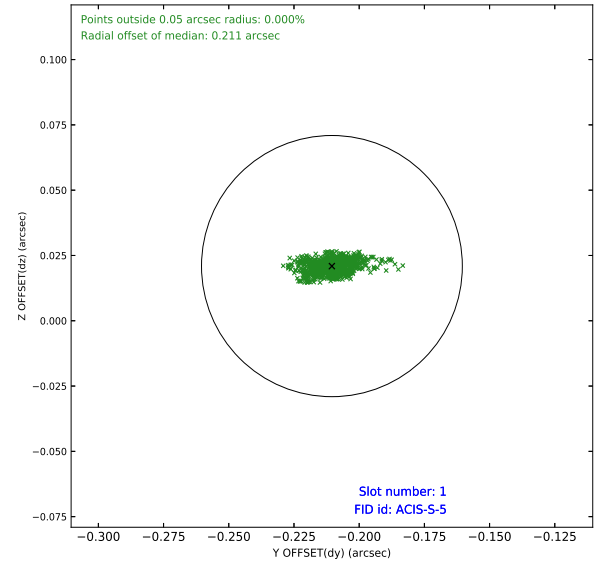
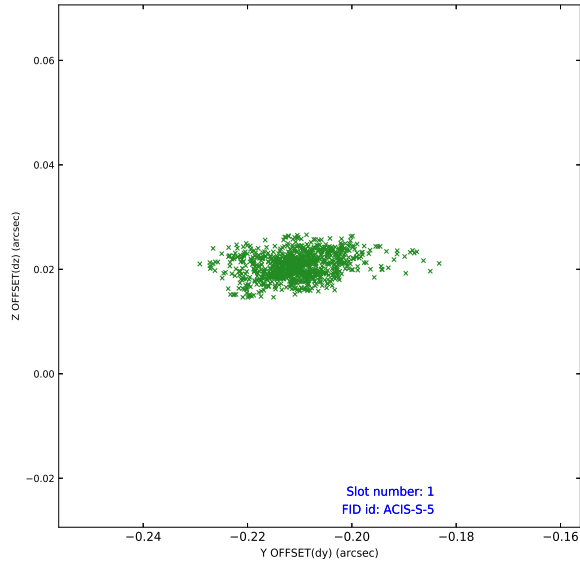


2.5 FID Slots

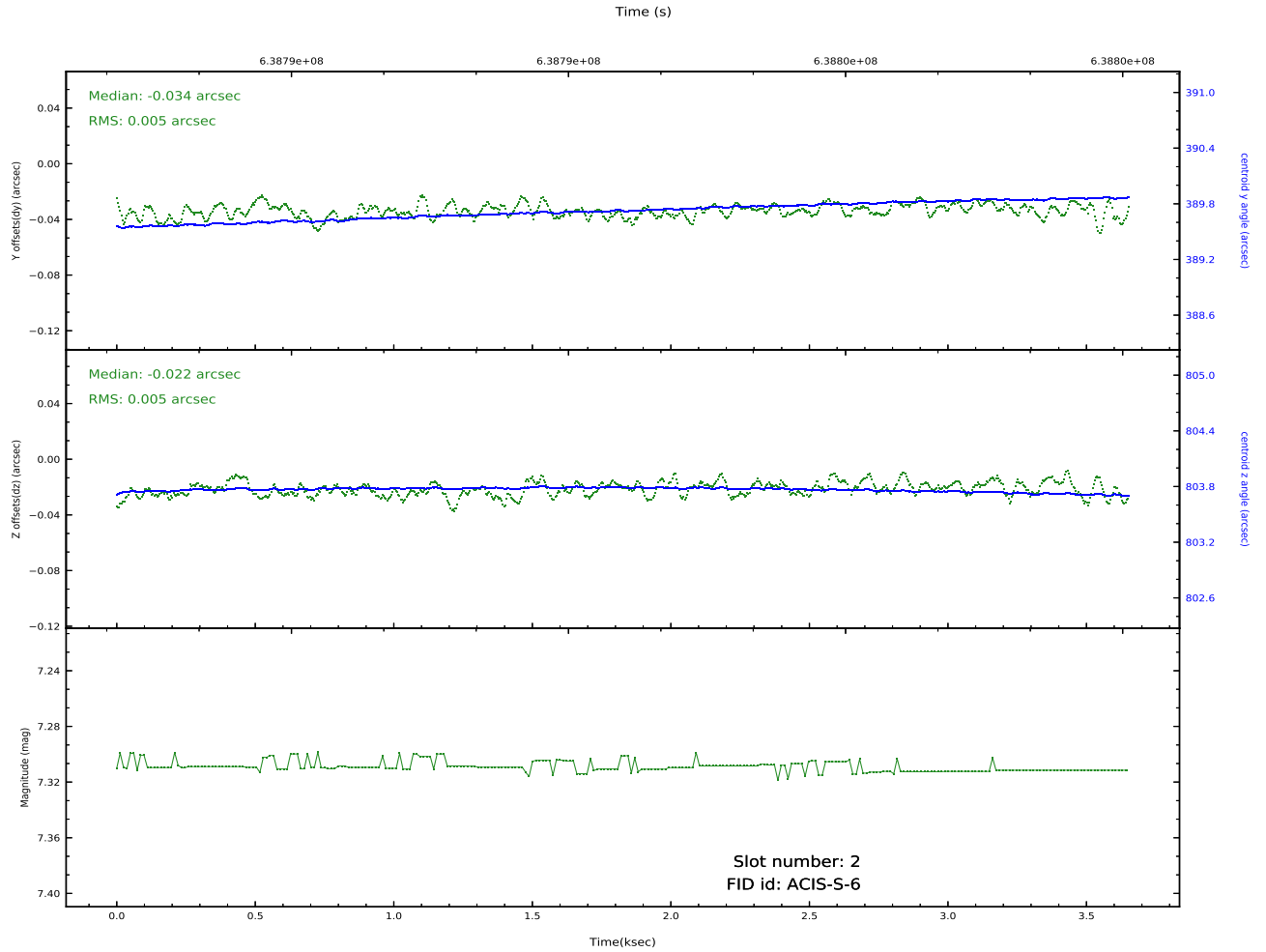
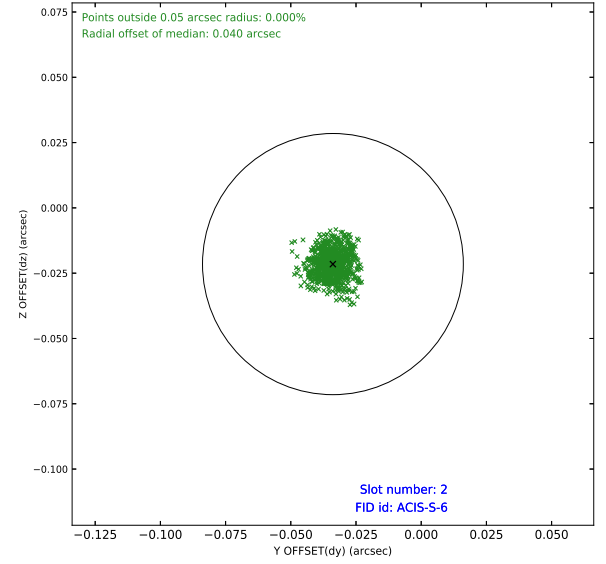
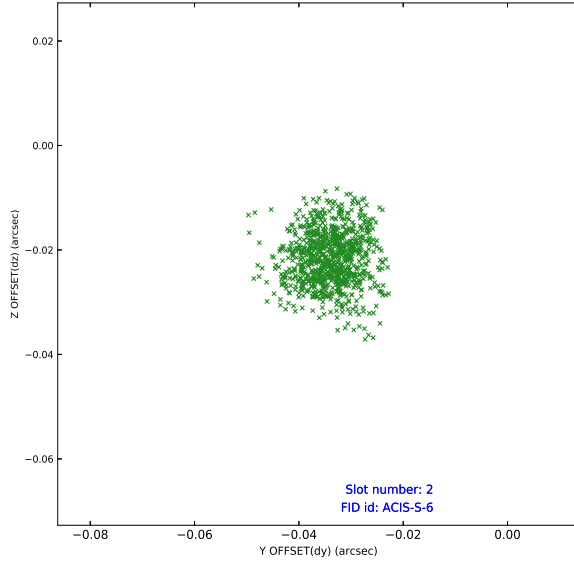
2.5.1 Slot 0



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	3.5557000274658

A.2 Comments