

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 19756 - L2 Version 2
Chandra X-Ray Center

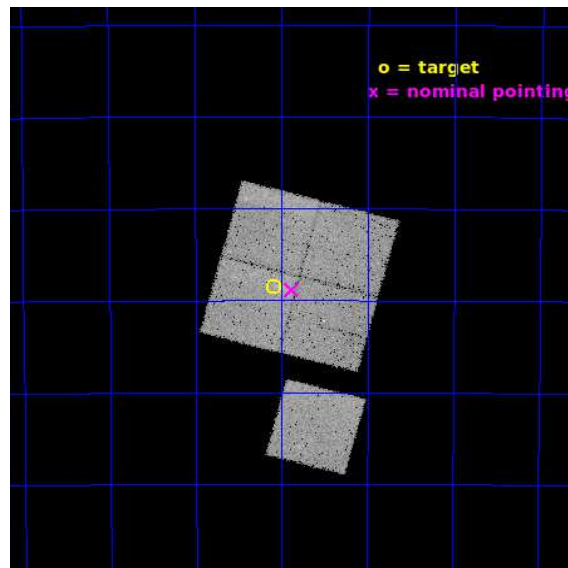
L2 Processing Date : Oct 24 2020

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1 Front

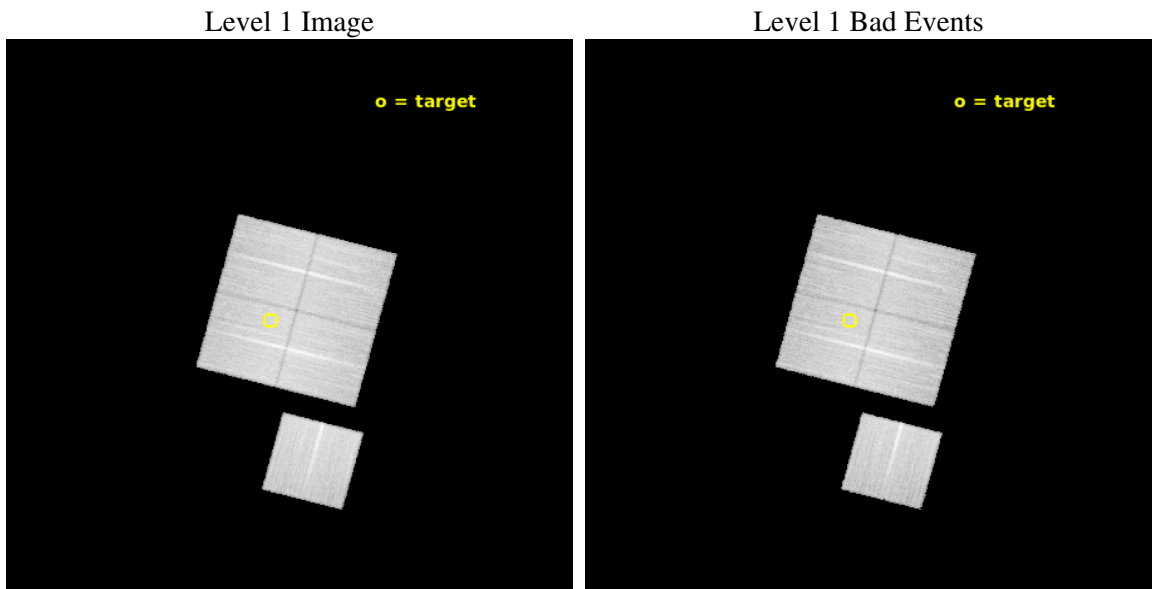
seq_num	801693	Sequence number
obs_id	19756	Observation id
title	A Chandra Survey of low-mass clusters at $0.7 < z < 0.8$ selected in the 100 deg ² SPT-Pol Deep Field	Proposal title
observer	Ralph Kraft	Principal investigator
object	SPT-CLJ2334-5308	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	353.522083	Observer's specified target RA [deg]
dec_targ	-53.141	Observer's specified target Dec [deg]
ra_nom	353.47022903856	Nominal RA [deg]
dec_nom	-53.147083439175	Nominal Dec [deg]
roll_nom	194.8521854726	Nominal Roll [deg]
revision	2	Processing version of data
ontime	27059.859218001	Sum of GTIs [s]
livetime	26706.30223614	Livetime [s]
ontime0	27059.859168172	Sum of GTIs [s]
ontime1	27063.000208259	Sum of GTIs [s]
ontime2	27059.85918808	Sum of GTIs [s]
ontime3	27059.859218001	Sum of GTIs [s]
ontime6	27063.000208259	Sum of GTIs [s]
l2events	94932	Number of level 2 events



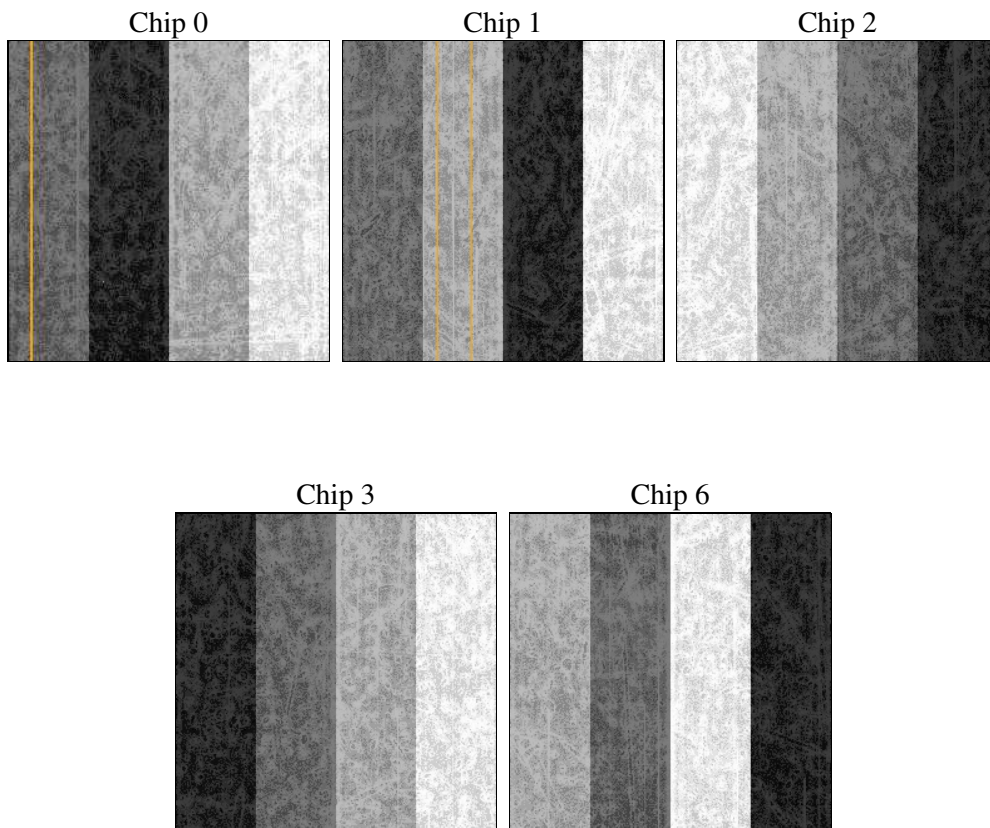
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	27000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	27059.859218001	Sum of GTIs [s]
caldsver	4.9.3	 	ontime0	27059.859168172	Sum of GTIs [s]
date	2020-10-25T00:29:05	Date and time of file creation	ontime1	27063.000208259	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	27059.85918808	Sum of GTIs [s]
			ontime3	27059.859218001	Sum of GTIs [s]
			ontime6	27063.000208259	Sum of GTIs [s]
			l1events	986460	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	186807	190974	204554	201274	202851
rejected events	164424	166355	183077	179499	180408
rejected %	88%	87%	89%	89%	88%

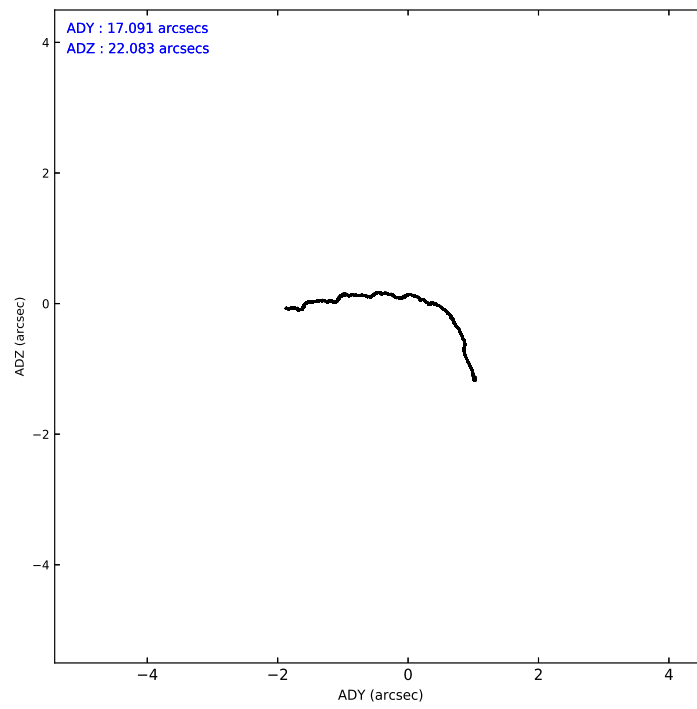
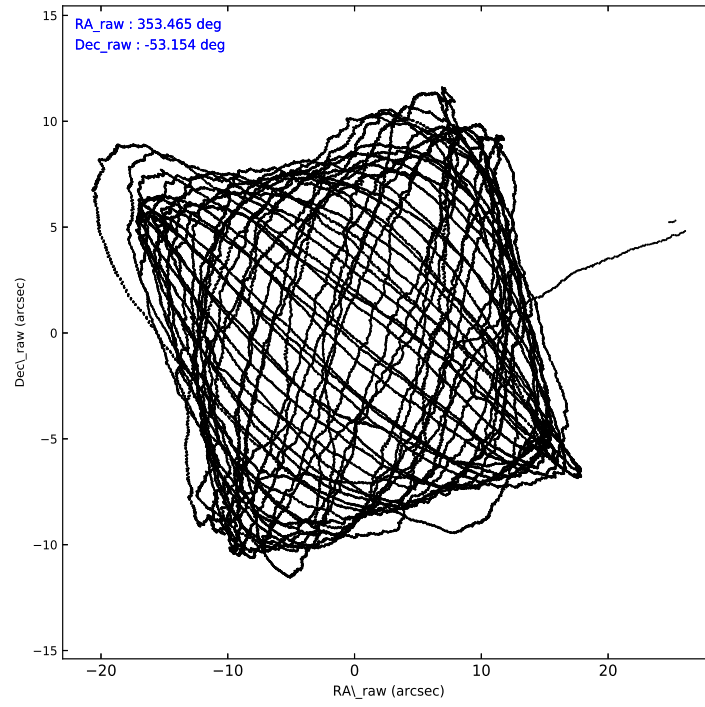
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	7515	8113	7535	8193	7246
	4%	4%	3%	4%	3%
grade 1 events	94	90	107	132	88
	0%	0%	0%	0%	0%
grade 2 events	5722	6520	5412	4770	5441
	3%	3%	2%	2%	2%
grade 3 events	2270	2208	2096	2146	2221
	1%	1%	1%	1%	1%
grade 4 events	2148	2287	2259	2186	2087
	1%	1%	1%	1%	1%
grade 5 events	8343	8775	7923	9373	8968
	4%	4%	3%	4%	4%
grade 6 events	4733	5496	4178	4486	5451
	2%	2%	2%	2%	2%
grade 7 events	155982	157485	175044	169988	171349
	83%	82%	85%	84%	84%

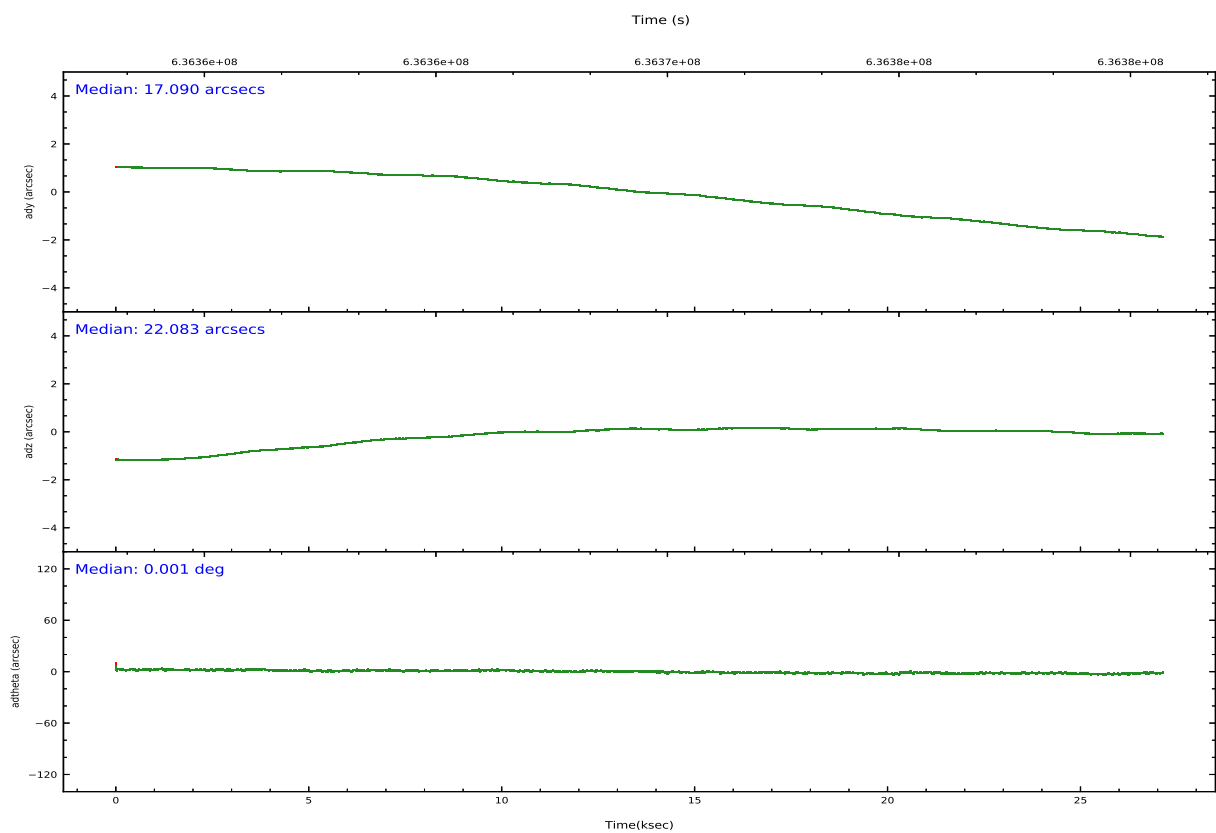
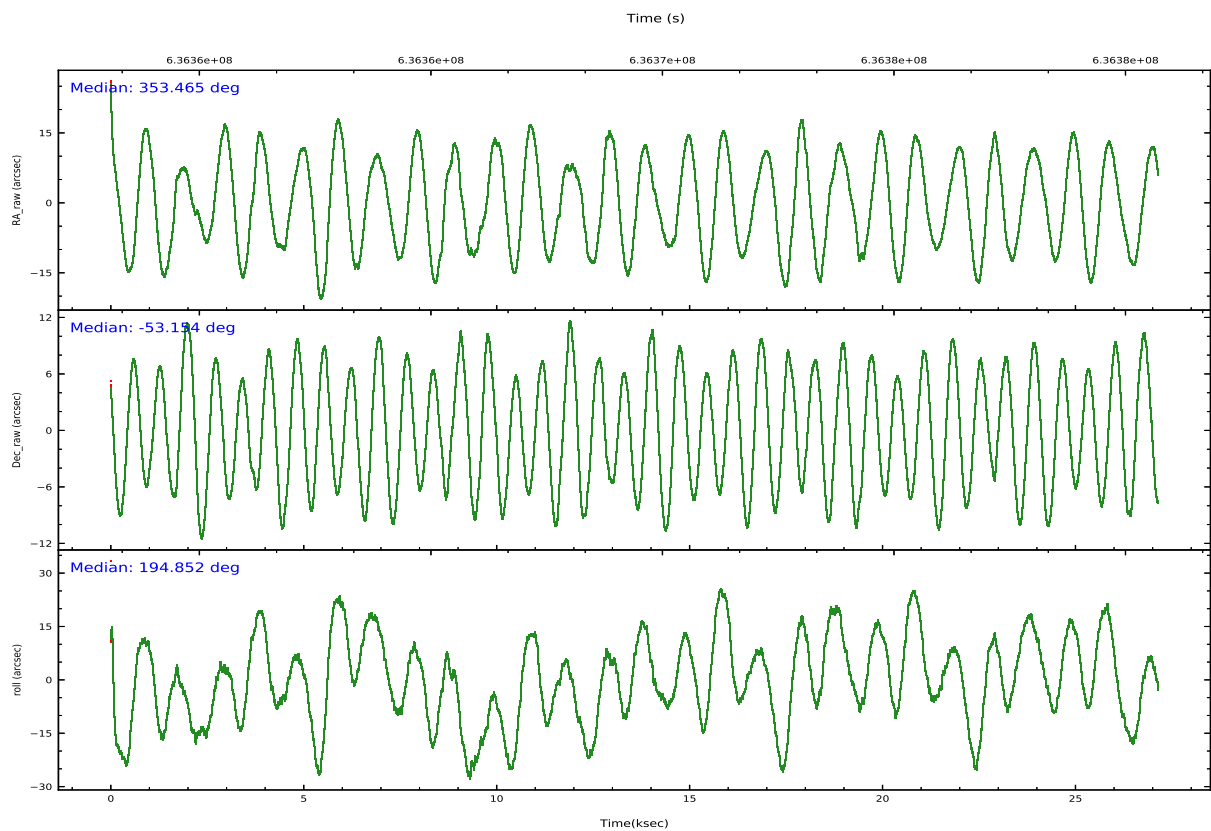
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-01236	ACIS-01236
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	353.497164	353.47022903856
[deg] Pointing Dec	-53.134935	-53.147083439175
[deg] Pointing Roll	194.676814	194.8521854726
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.001439871863259334
[mm] SIM translation stage pos	-230.082463	-230.0875075610572
[mm] SIM translation stage offset	-3.51	-3.504945441872508
[s] Observation start time (MET)	636355847.184000	636354557.27086
Observation start date	2018-03-02T05:29:38	2018-03-02T05:09:17
[s] Observation end time (MET)	636382847.184000	636384077.2726001
Observation end date	2018-03-02T12:59:38	2018-03-02T13:21:17
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar version number	8	8
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	Y	Y
CCD I1 on	Y	Y
CCD I2 on	Y	Y
CCD I3 on	Y	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	O1	Y
CCD S3 on	N	N
CCD S4 on	N	N
CCD S5 on	N	N
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



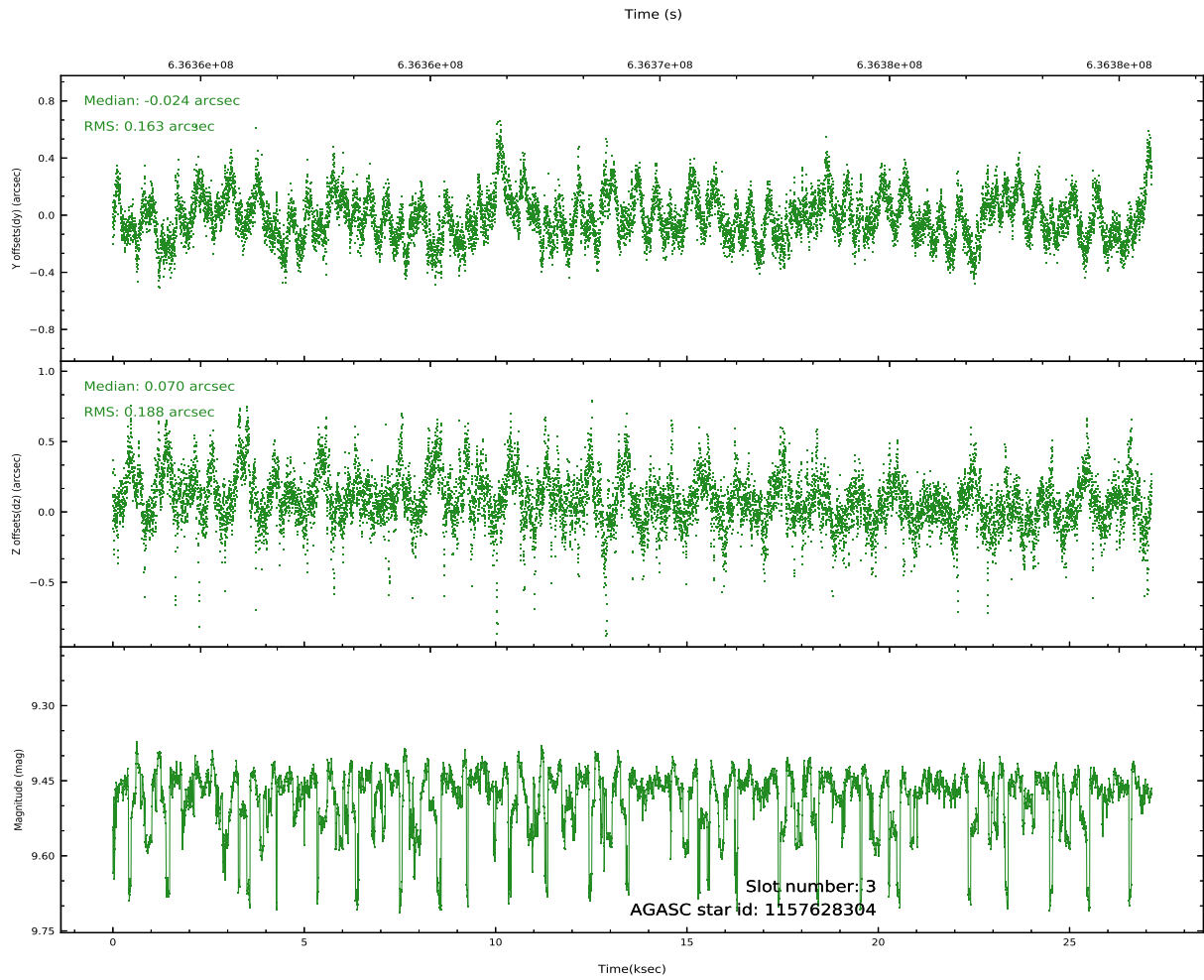
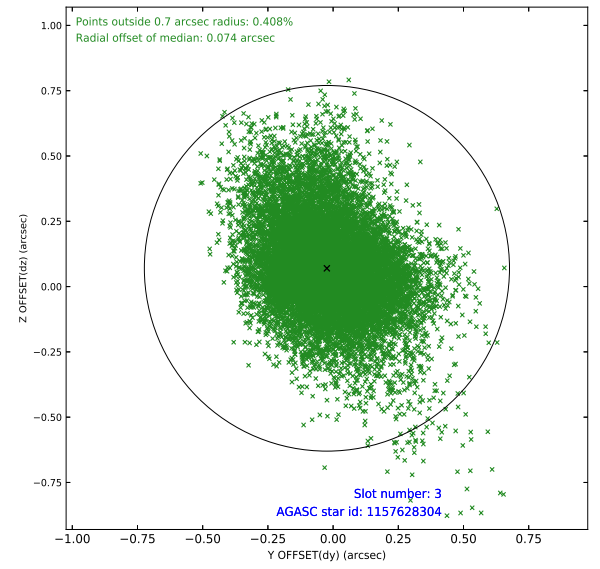
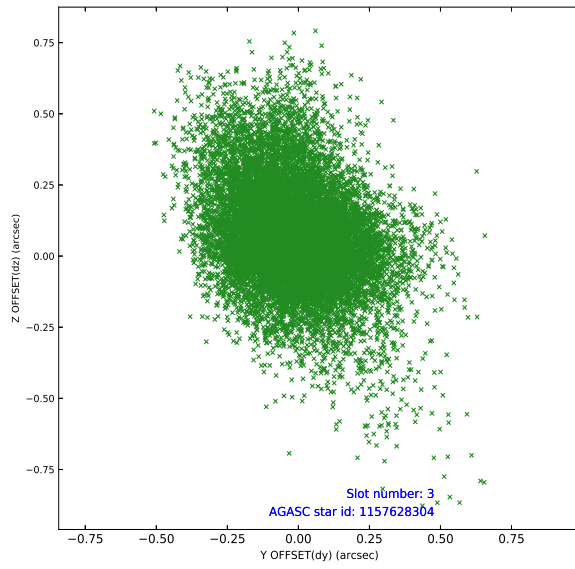


Slot Statistics

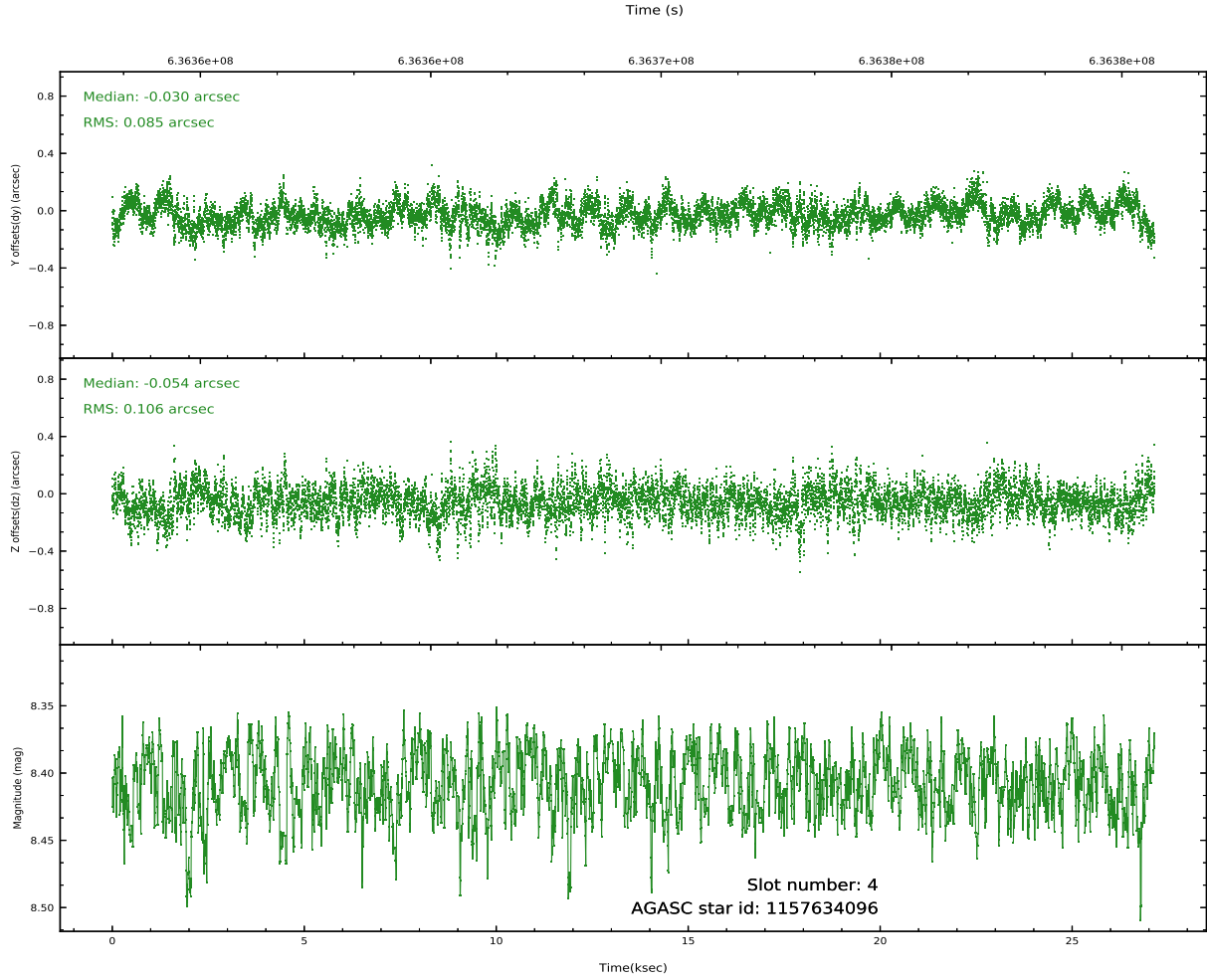
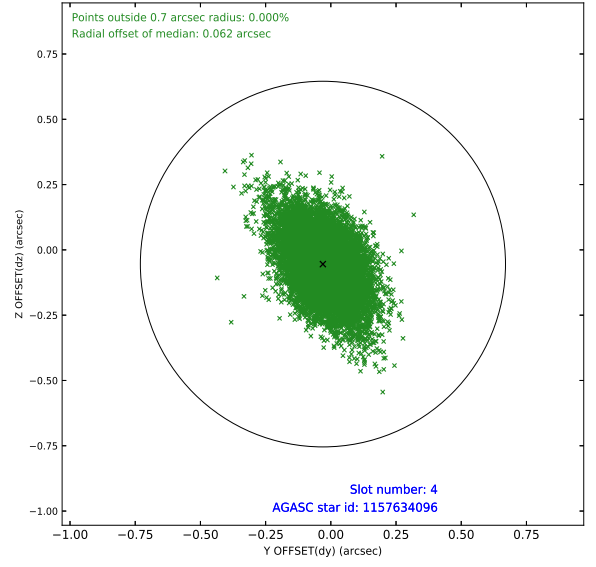
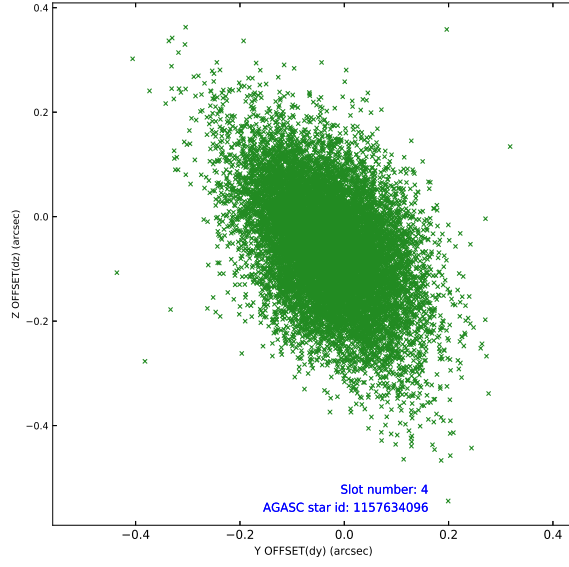
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.16	6620	1.000	0.193	-0.113	0.016	0.026	0.000000	0.000000	922.52	-917
1	FID		ACIS-I-4	7.10	6620	1.000	0.069	0.011	0.024	0.036	0.000000	0.000000	2142.39	982
2	FID		ACIS-I-5	7.13	6621	1.000	-0.362	0.174	0.024	0.035	0.000000	0.000000	-1825.80	980
3	GUIDE	used	1157628304	9.47	13221	1.000	-0.024	0.070	0.252	0.449	353.160777	-52.580391	207.54	-2115
4	GUIDE	used	1157634096	8.41	13228	1.000	-0.030	-0.054	0.140	0.244	352.934427	-53.769948	1737.90	1914
5	GUIDE	used	1157634600	9.33	13214	1.000	0.024	-0.035	0.189	0.327	352.963792	-53.855365	1754.69	2226
6	GUIDE	used	1157635344	9.53	13215	1.000	0.153	-0.007	0.213	0.360	353.942819	-53.225125	-845.19	560
7	GUIDE	used	1157635936	9.12	13231	1.000	-0.146	0.021	0.145	0.258	353.417299	-53.658133	641.04	1781

2.4 Star Slots

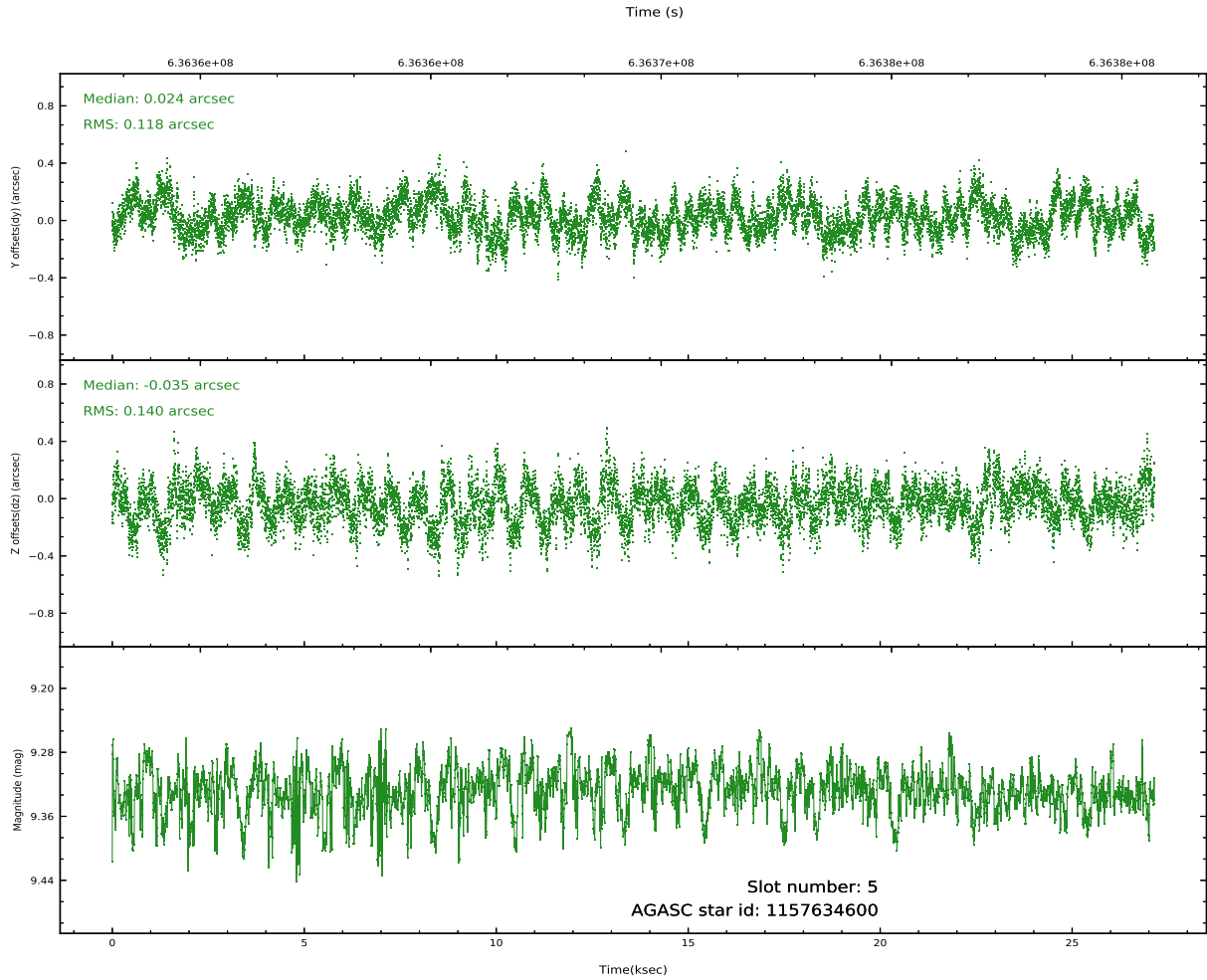
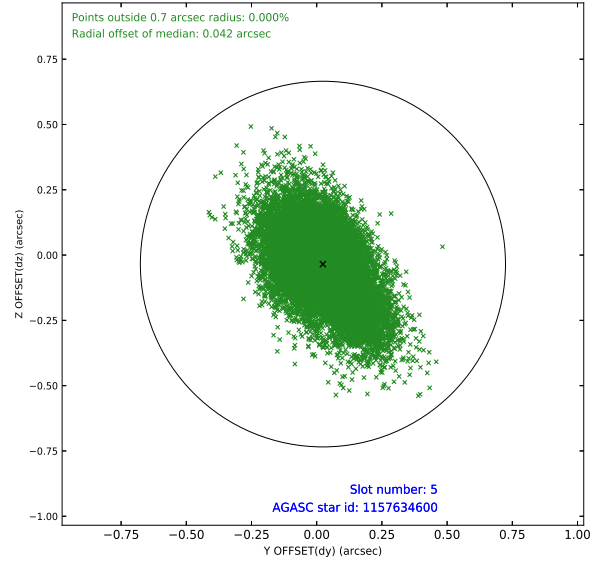
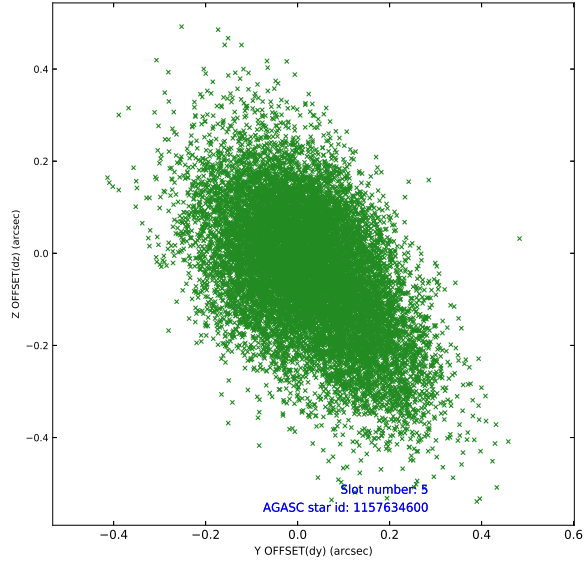
2.4.1 Slot 3



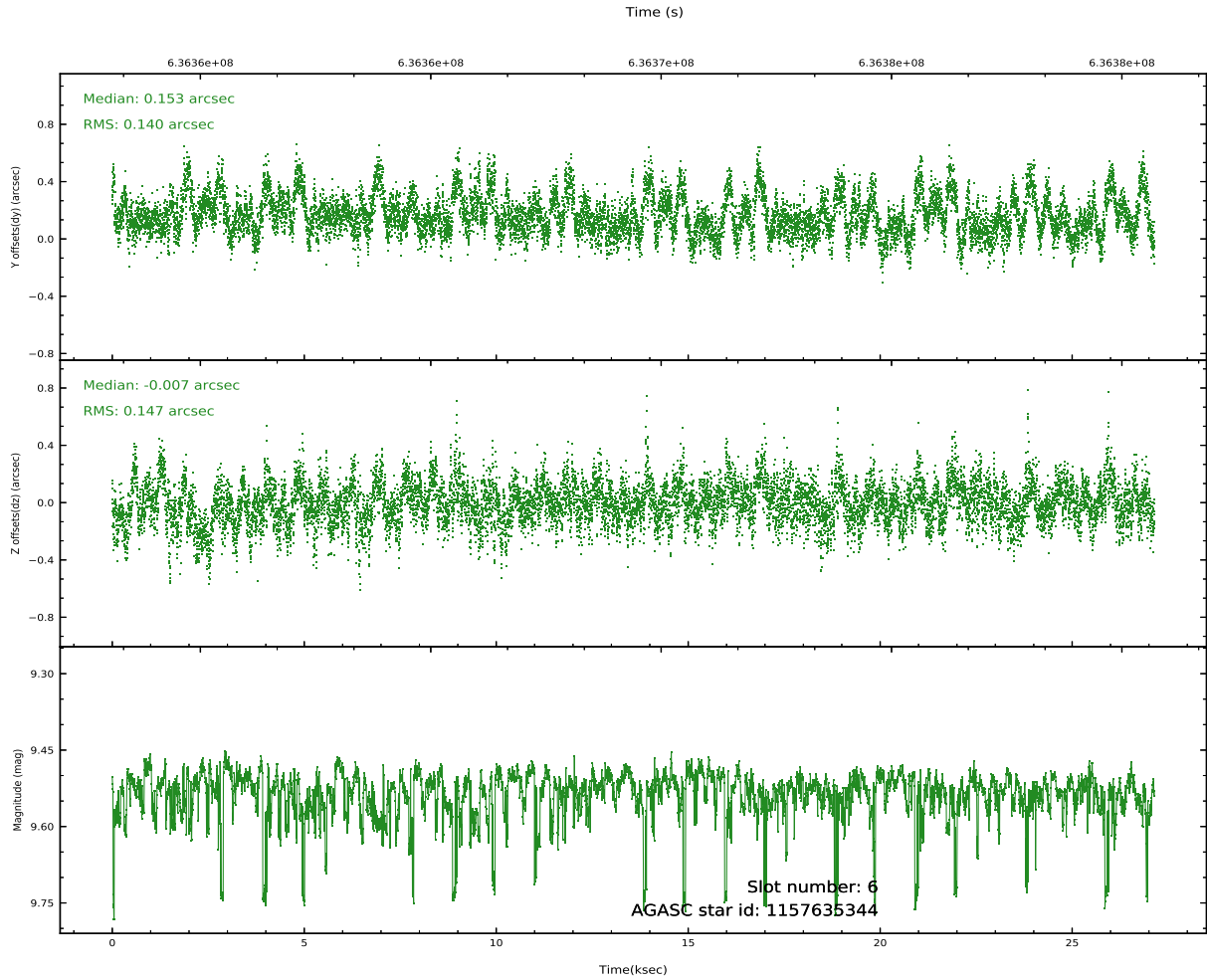
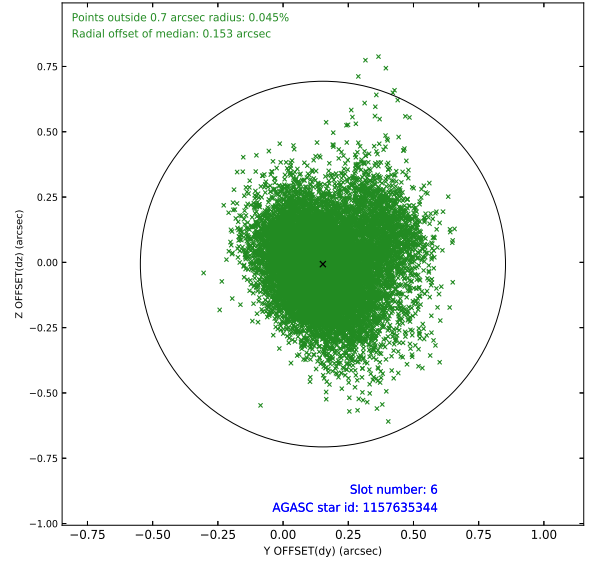
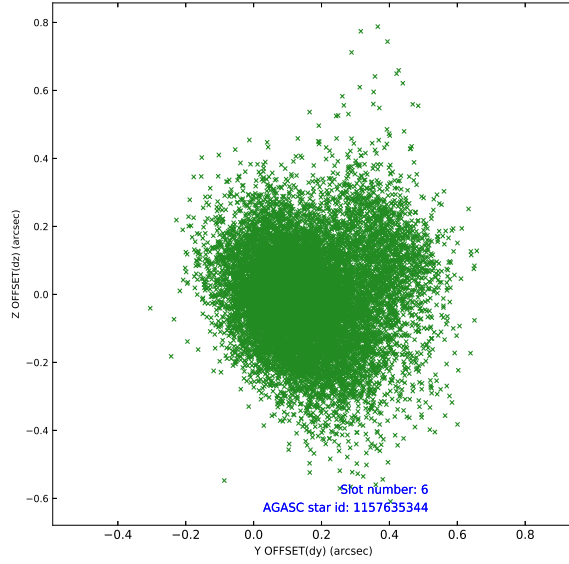
2.4.2 Slot 4



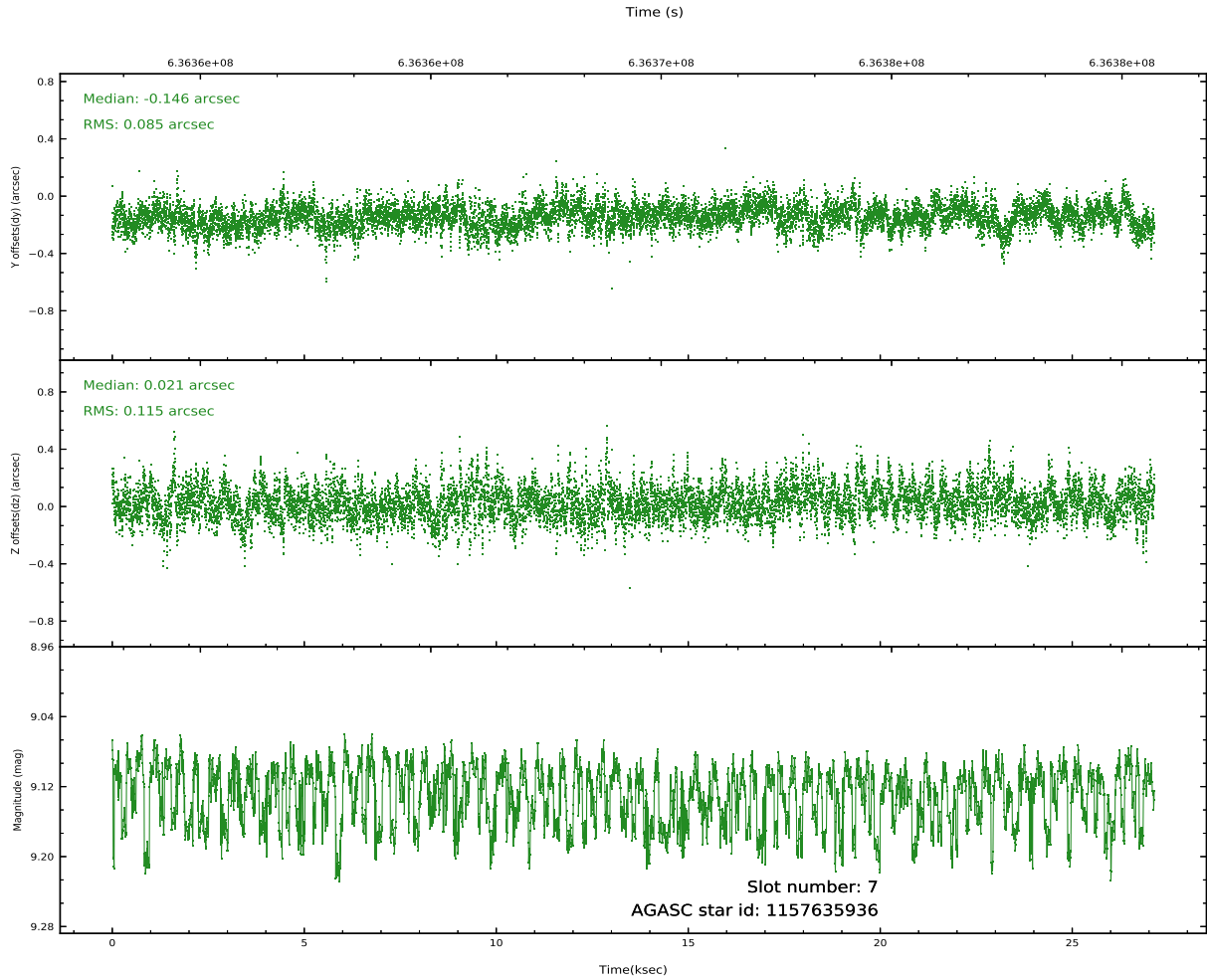
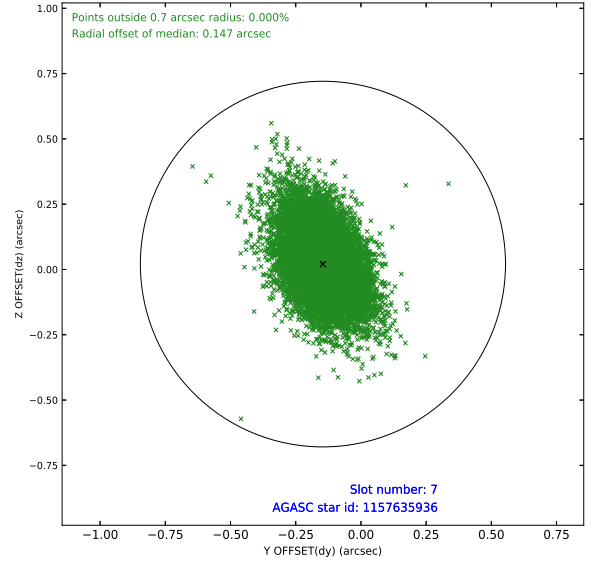
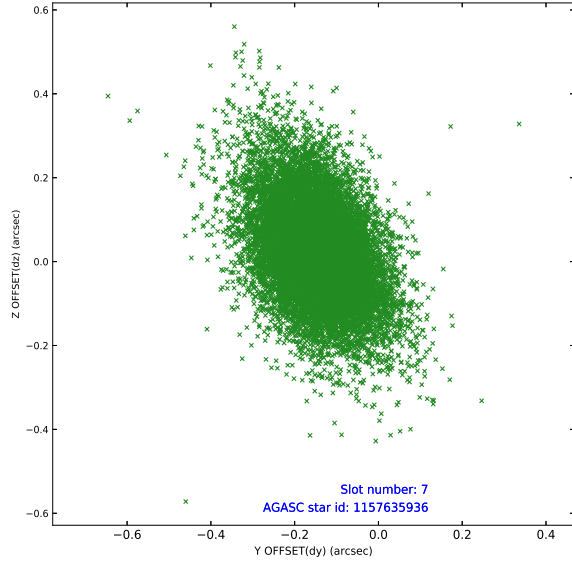
2.4.3 Slot 5



2.4.4 Slot 6

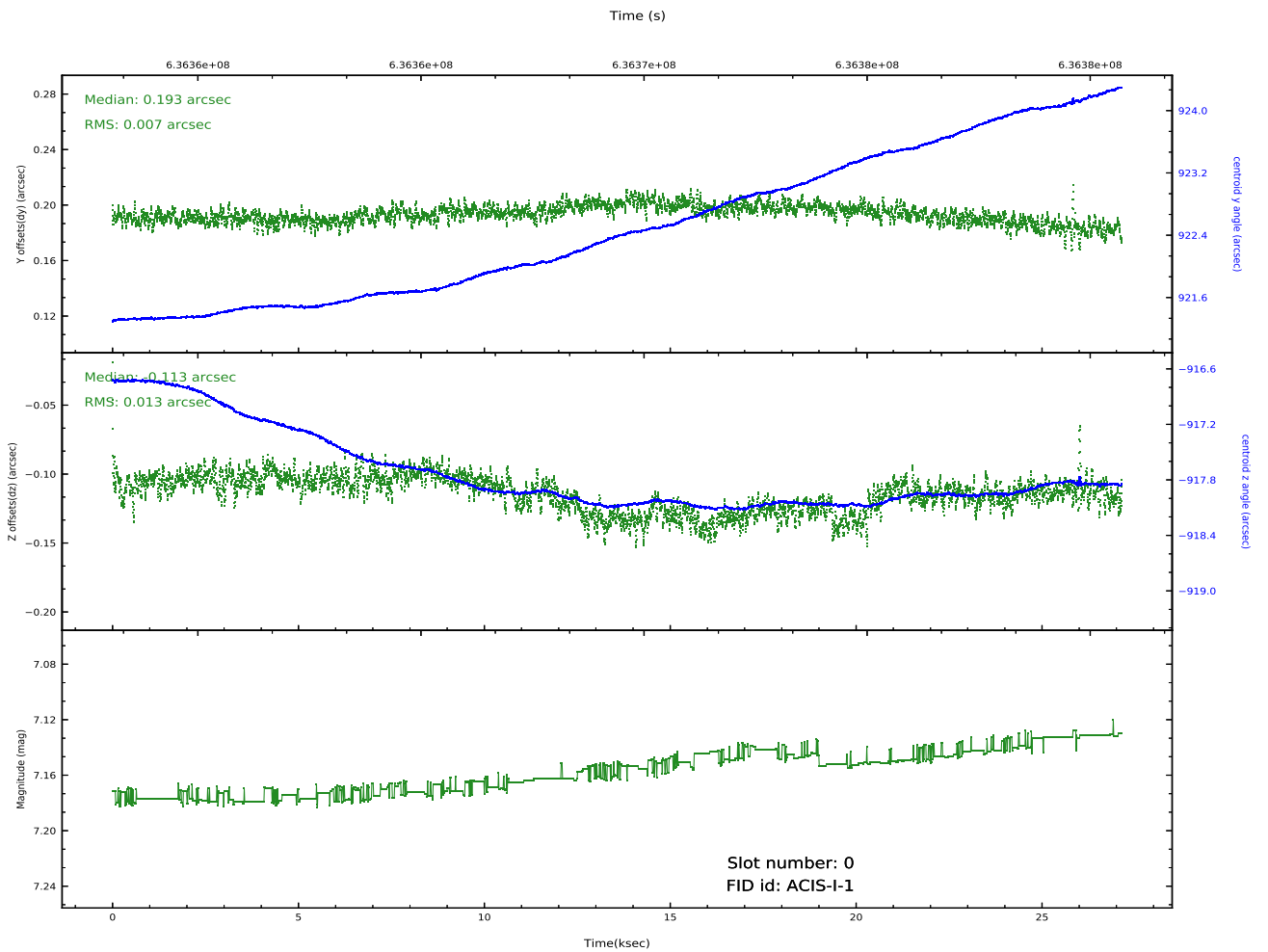
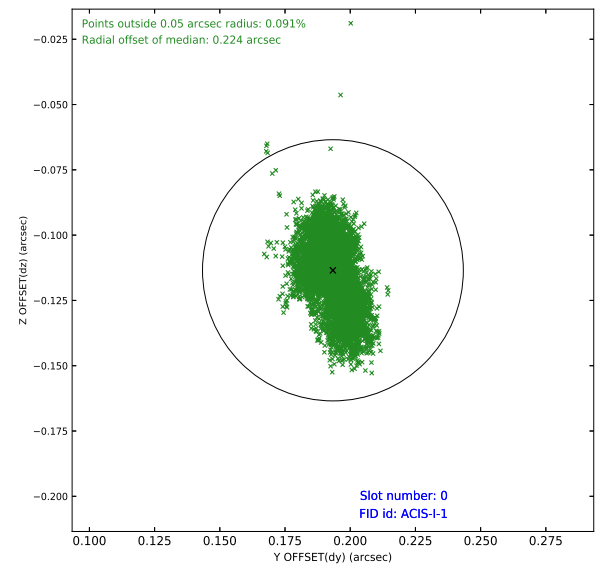
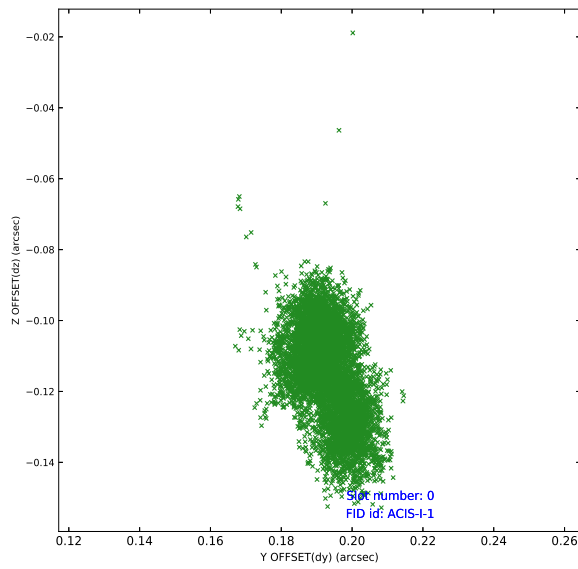


2.4.5 Slot 7

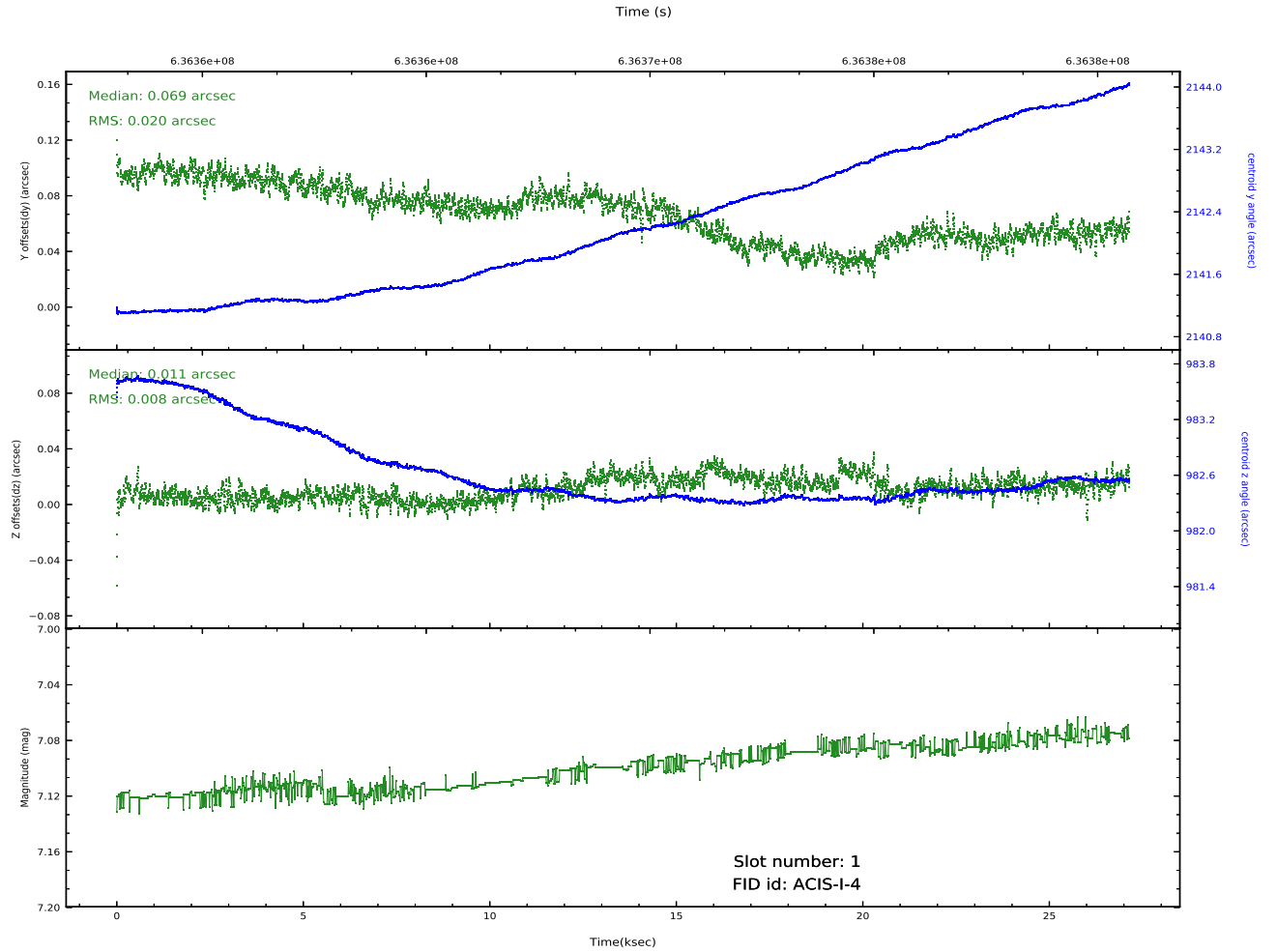
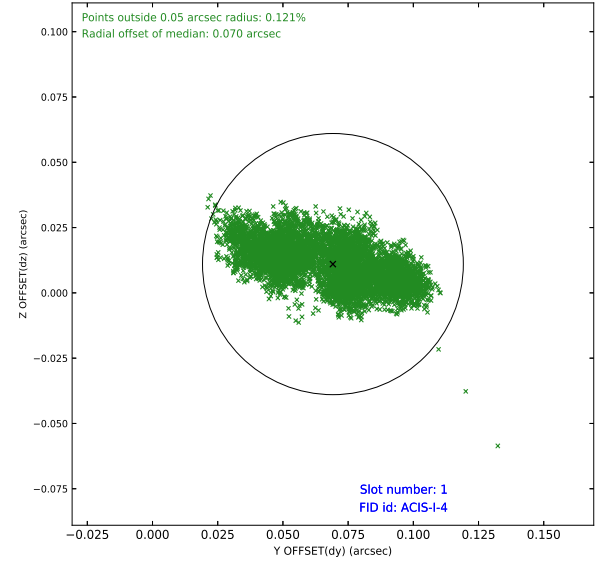
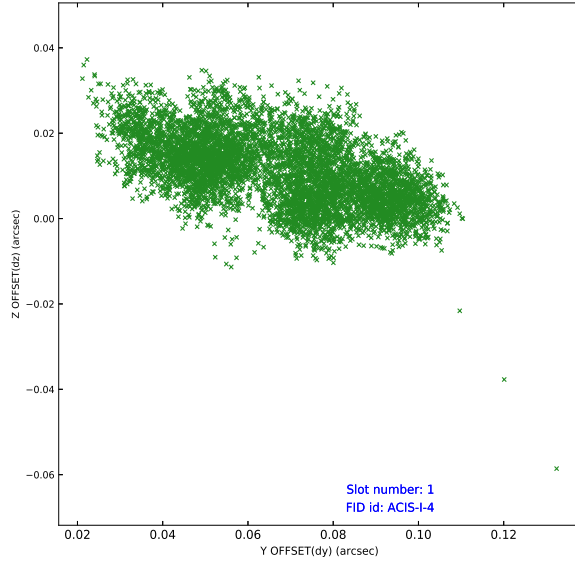


2.5 FID Slots

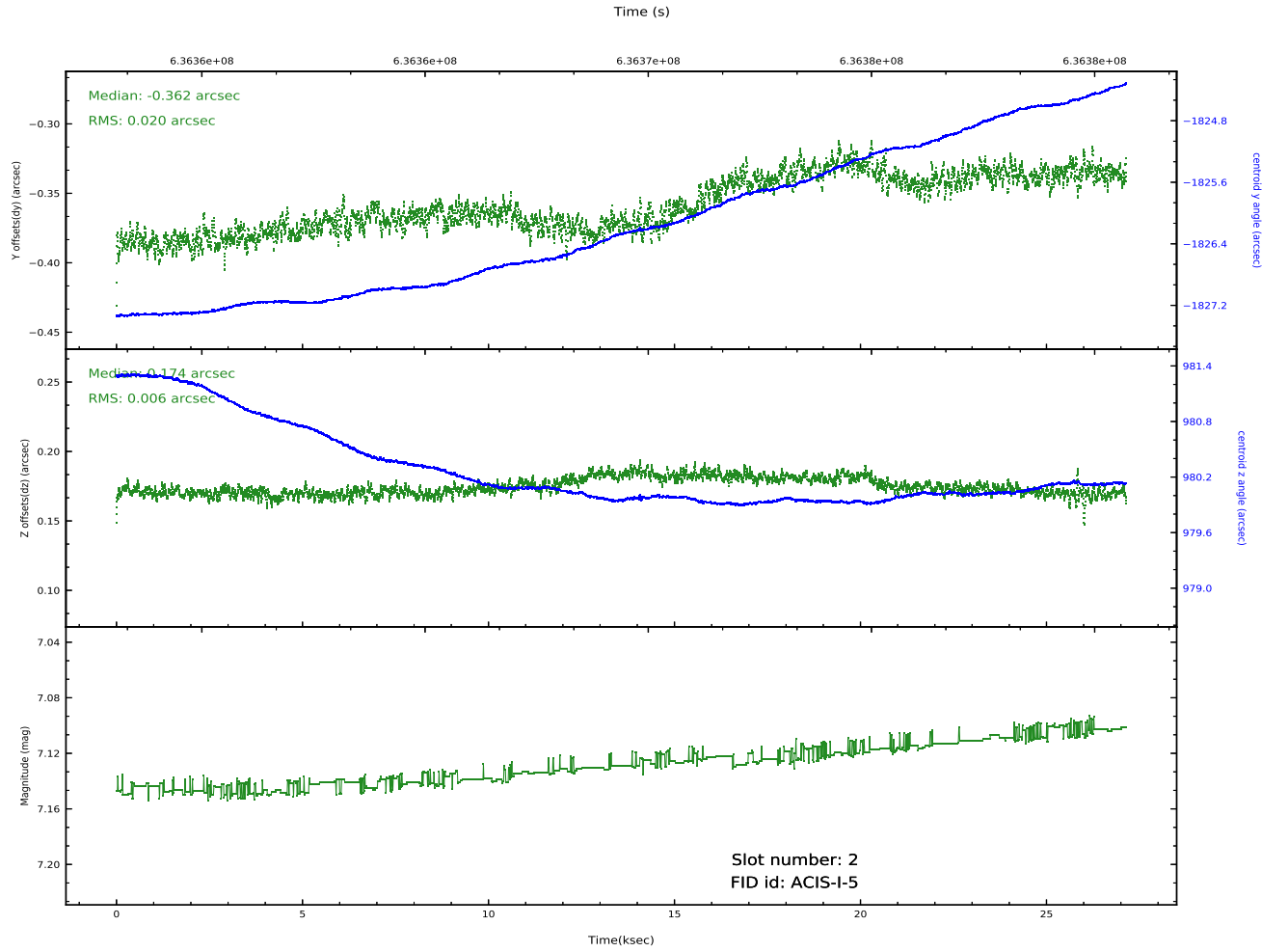
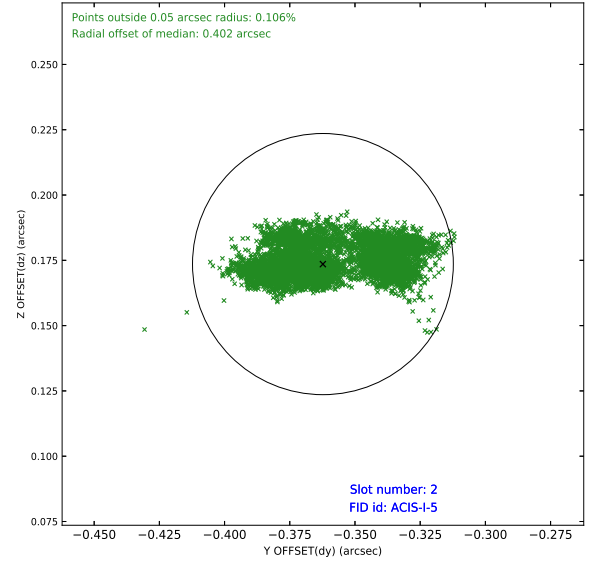
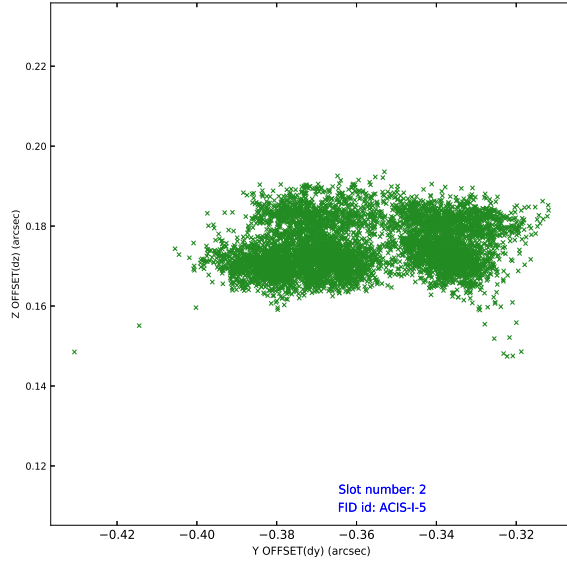
2.5.1 Slot 0



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	27.059859218001

A.2 Comments