

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20441 - L2 Version 2
Chandra X-Ray Center

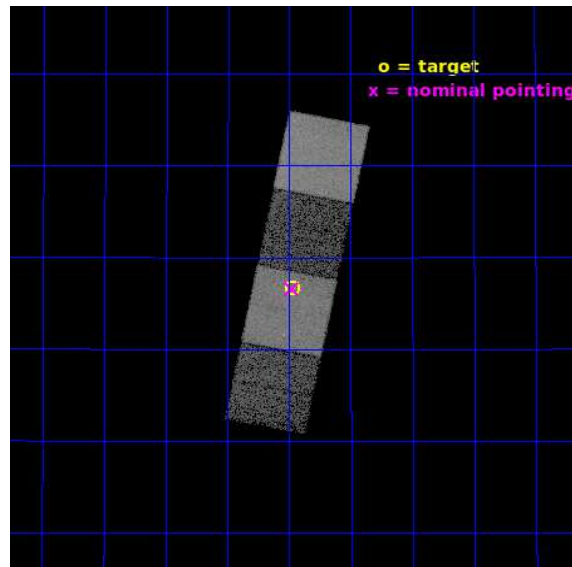
L2 Processing Date : Oct 24 2020

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1 Front

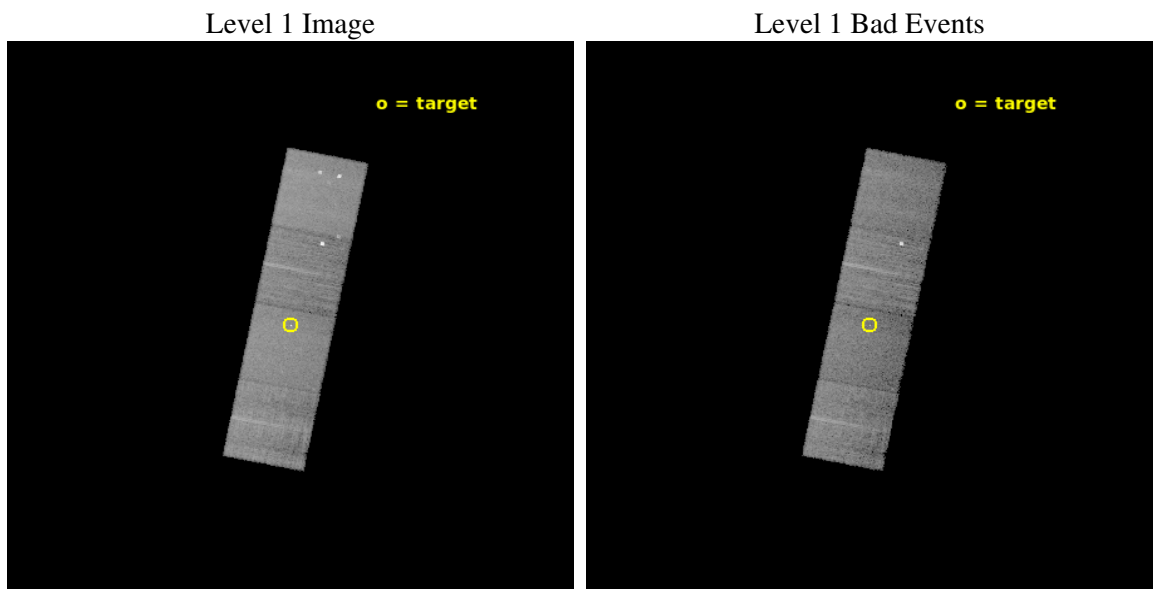
seq_num	703546	Sequence number
obs_id	20441	Observation id
title	Compton thick AGN: the hunt continues	Proposal title
observer	Stefano Marchesi	Principal investigator
object	2MASX J08445829+3056386	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	131.242917	Observer's specified target RA [deg]
dec_targ	30.943972	Observer's specified target Dec [deg]
ra_nom	131.24458878268	Nominal RA [deg]
dec_nom	30.943546558025	Nominal Dec [deg]
roll_nom	101.36512085521	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10062.60007751	Sum of GTIs [s]
livetime	9931.1247995188	Livetime [s]
ontime5	10062.60007751	Sum of GTIs [s]
ontime6	10062.60007751	Sum of GTIs [s]
ontime7	10062.60007751	Sum of GTIs [s]
ontime8	10062.60007751	Sum of GTIs [s]
l2events	107785	Number of level 2 events



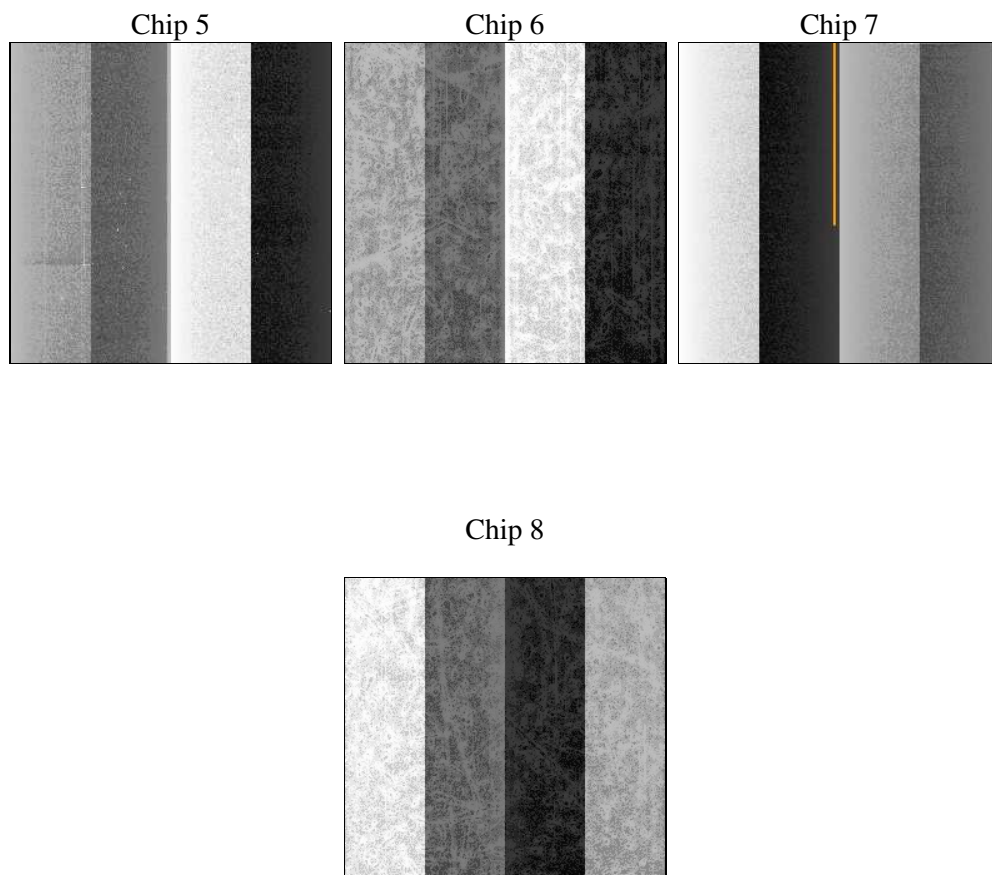
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	10062.60007751	Sum of GTIs [s]
caldsver	4.9.3	 	ontime5	10062.60007751	Sum of GTIs [s]
date	2020-10-24T04:56:38	Date and time of file creation	ontime6	10062.60007751	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	10062.60007751	Sum of GTIs [s]
			ontime8	10062.60007751	Sum of GTIs [s]
			l1events	387073	Number of level 1 events

2.1.4 Events

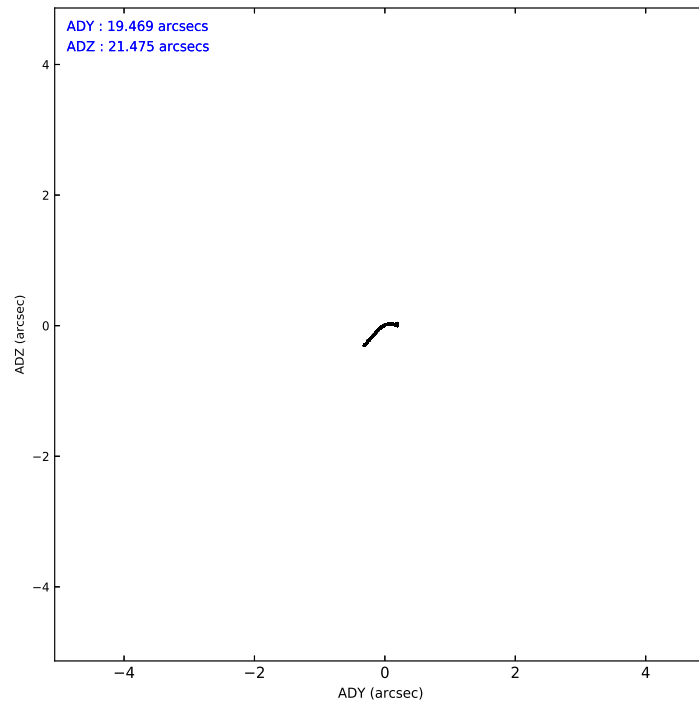
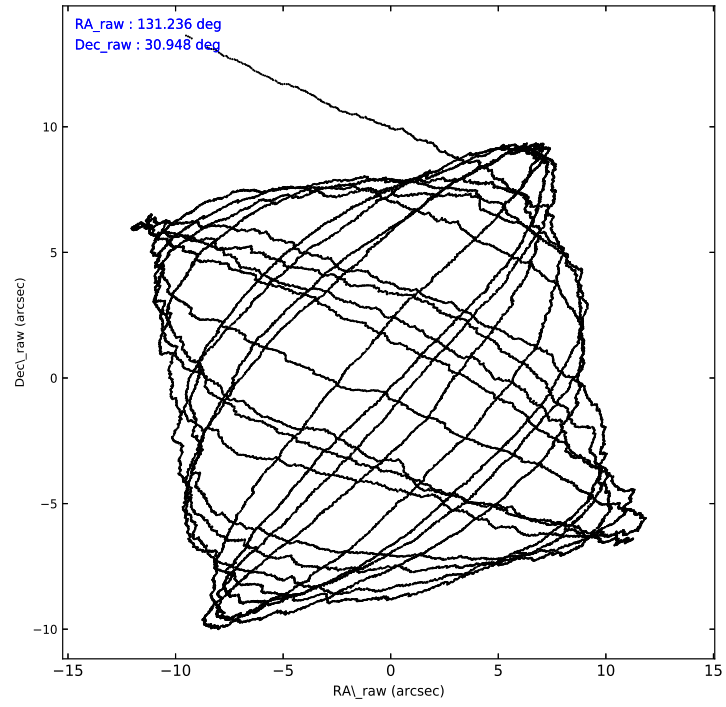
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	118751	82274	93872	92176
rejected events	59269	70766	52382	68549
rejected %	49%	86%	55%	74%

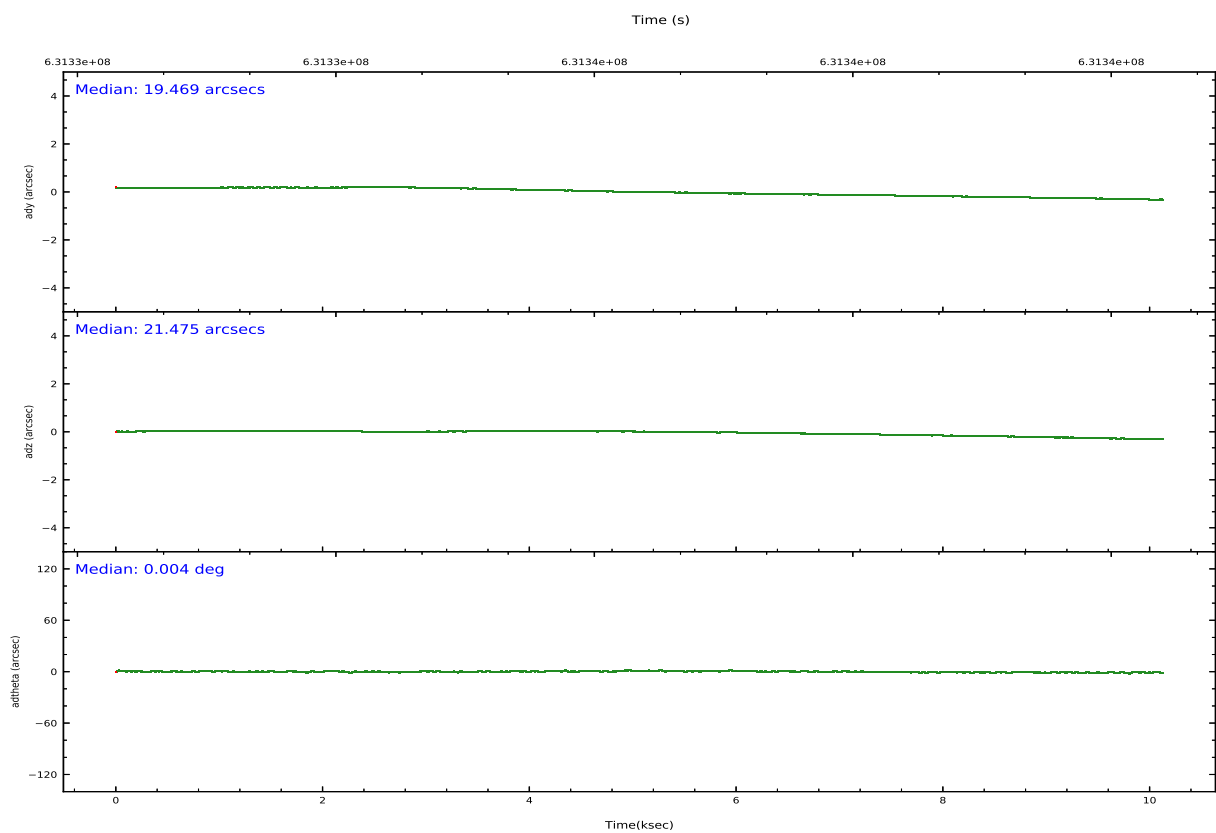
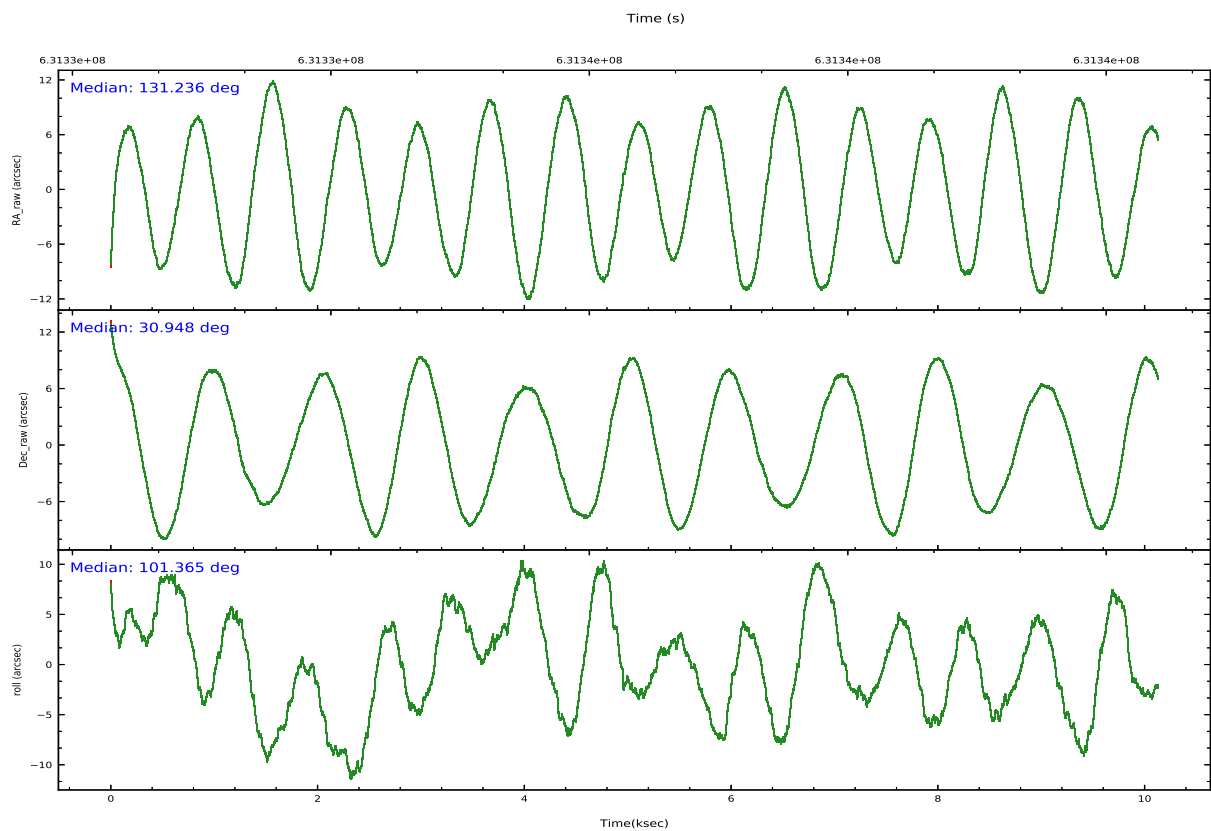
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	7847	5775	3606	6531
	6%	7%	3%	7%
grade 1 events	276	3149	130	60
	0%	3%	0%	0%
grade 2 events	17483	2065	8781	5959
	14%	2%	9%	6%
grade 3 events	1569	787	3467	2326
	1%	0%	3%	2%
grade 4 events	1733	818	3335	2131
	1%	0%	3%	2%
grade 5 events	7364	3210	9155	5117
	6%	3%	9%	5%
grade 6 events	30865	2066	22309	6686
	25%	2%	23%	7%
grade 7 events	51614	64404	43089	63366
	43%	78%	45%	68%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-5678	ACIS-5678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	131.257753	131.24458878268	Subarray requested	NONE	NONE
[deg] Pointing Dec	30.927399	30.943546558025	Alternating exposures requested	N	N
[deg] Pointing Roll	101.205634	101.36512085521	[s] Primary exposure time	0.000000	3.1
[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)	631330502.184000	631329307.41247			
Observation start date	2018-01-03T01:33:53	2018-01-03T01:15:07			
[s] Observation end time (MET)	631340502.184000	631341104.65066			
Observation end date	2018-01-03T04:20:33	2018-01-03T04:31:44			
Read mode	TIMED	TIMED			

2.3 Aspect



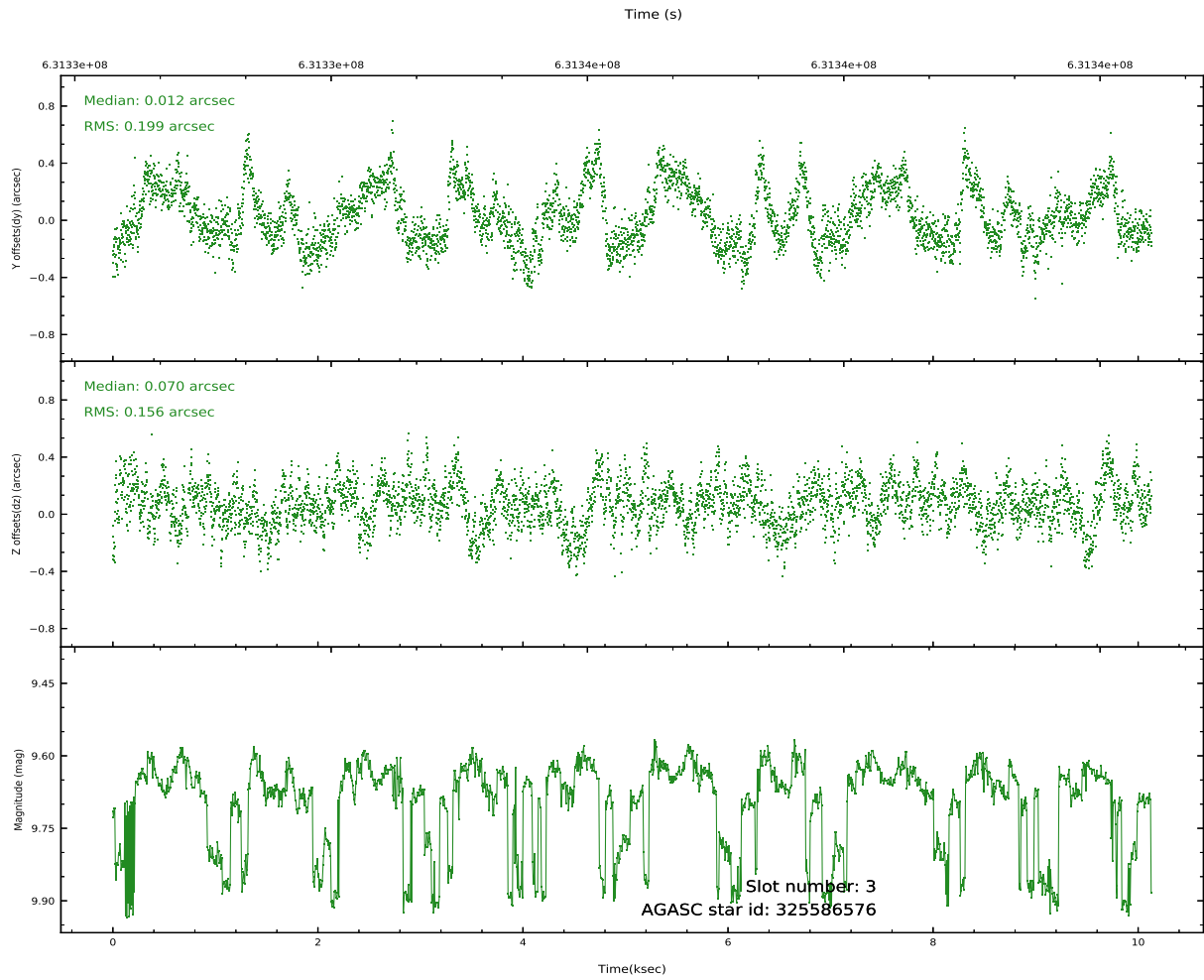
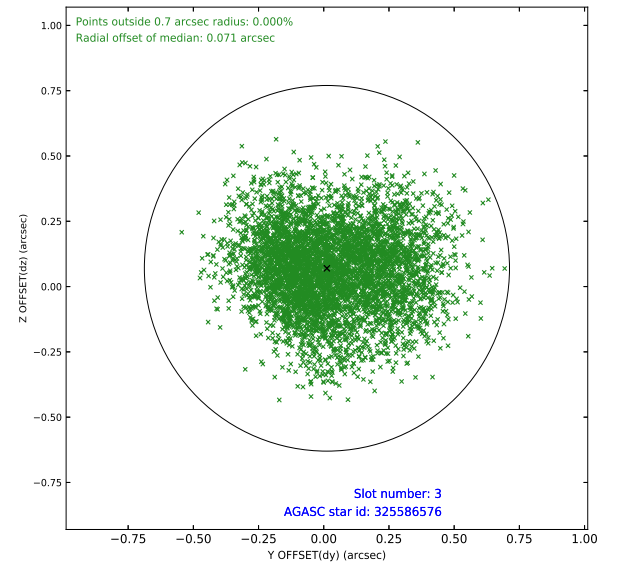
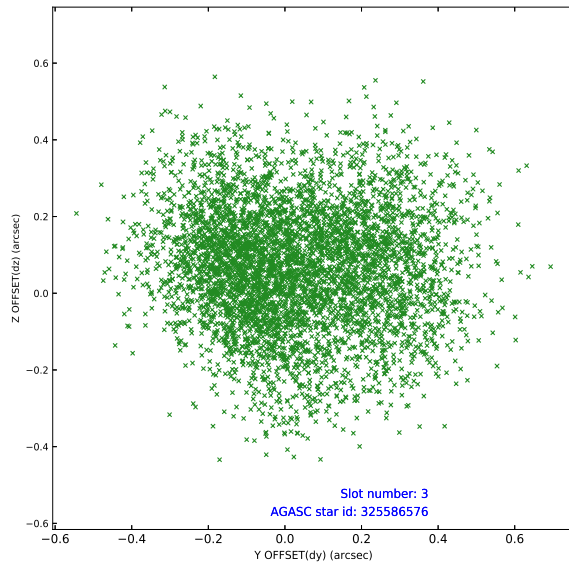


Slot Statistics

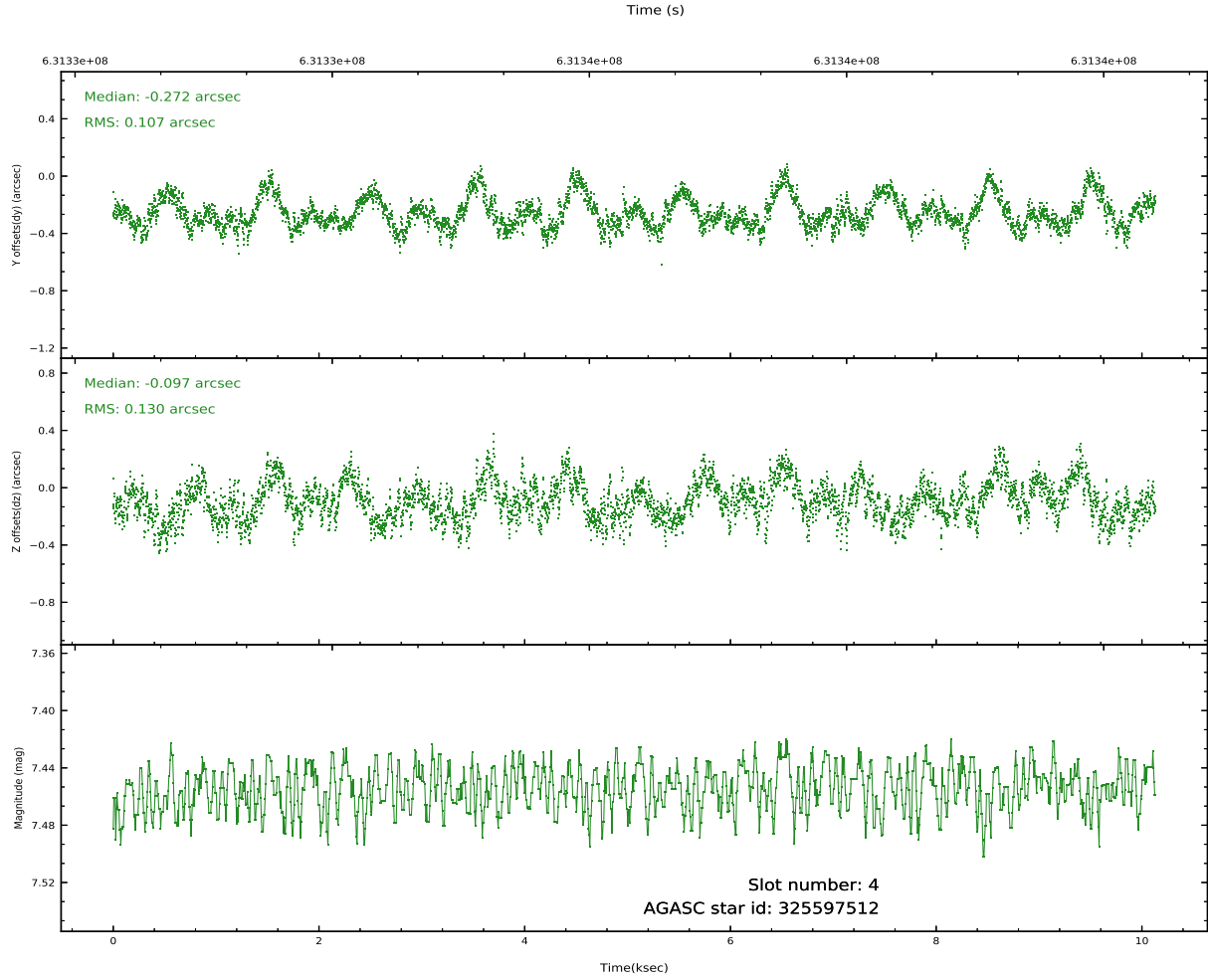
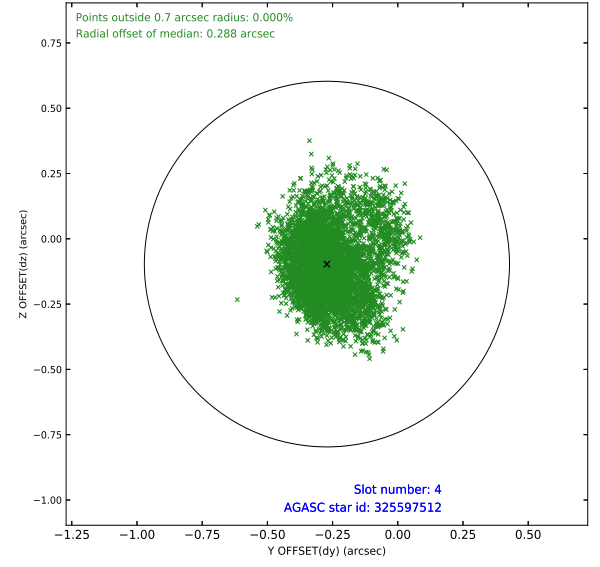
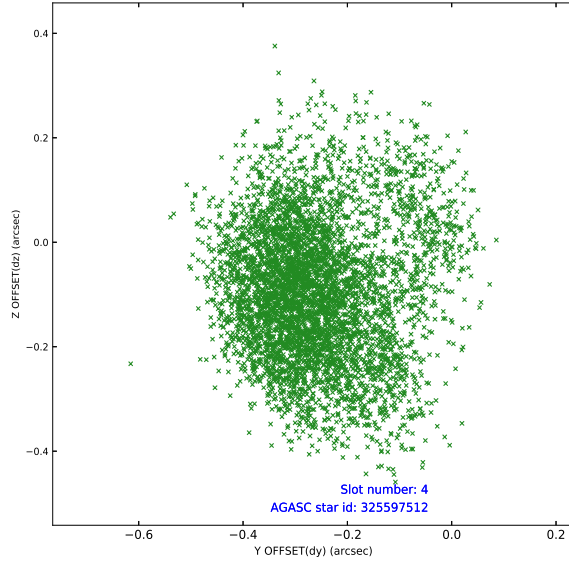
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.02	2472	1.000	0.108	-0.121	0.009	0.014	0.000000	0.000000	-772.70	-1742
1	FID		ACIS-S-4	7.13	2472	1.000	0.132	-0.019	0.014	0.023	0.000000	0.000000	2140.64	164
2	FID		ACIS-S-5	7.12	2472	1.000	-0.272	0.149	0.010	0.016	0.000000	0.000000	-1824.98	159
3	GUIDE	used	325586576	9.67	4929	1.000	0.012	0.070	0.271	0.432	130.688609	31.310264	1696.01	1448
4	GUIDE	used	325597512	7.45	4942	1.000	-0.272	-0.097	0.177	0.300	130.895258	31.317189	1594.94	821
5	GUIDE	used	325598848	9.27	4937	1.000	0.056	-0.146	0.191	0.306	130.634746	30.645450	-615.48	2089
6	GUIDE	used	325725984	9.14	4937	1.000	0.300	0.342	0.198	0.332	132.104842	30.436011	-2236.53	-2236
7	GUIDE	used	325594488	9.52	4930	1.000	-0.129	-0.171	0.283	0.456	130.517989	31.193946	1390.21	2047

2.4 Star Slots

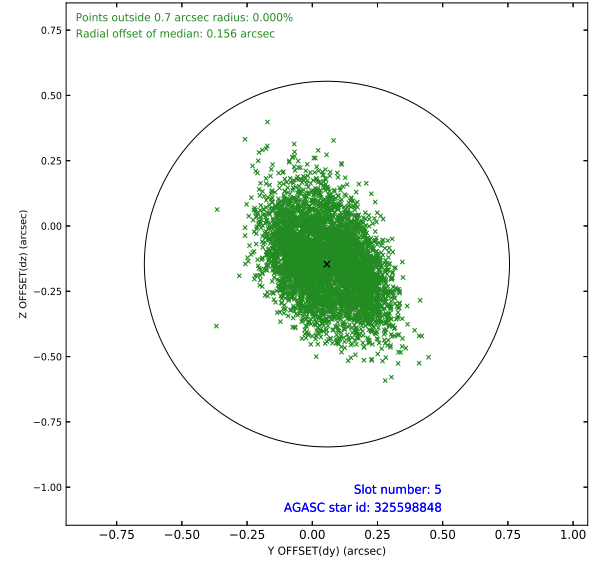
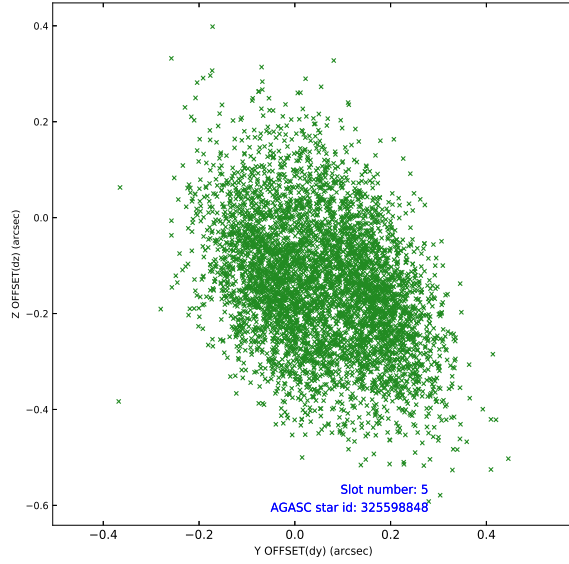
2.4.1 Slot 3



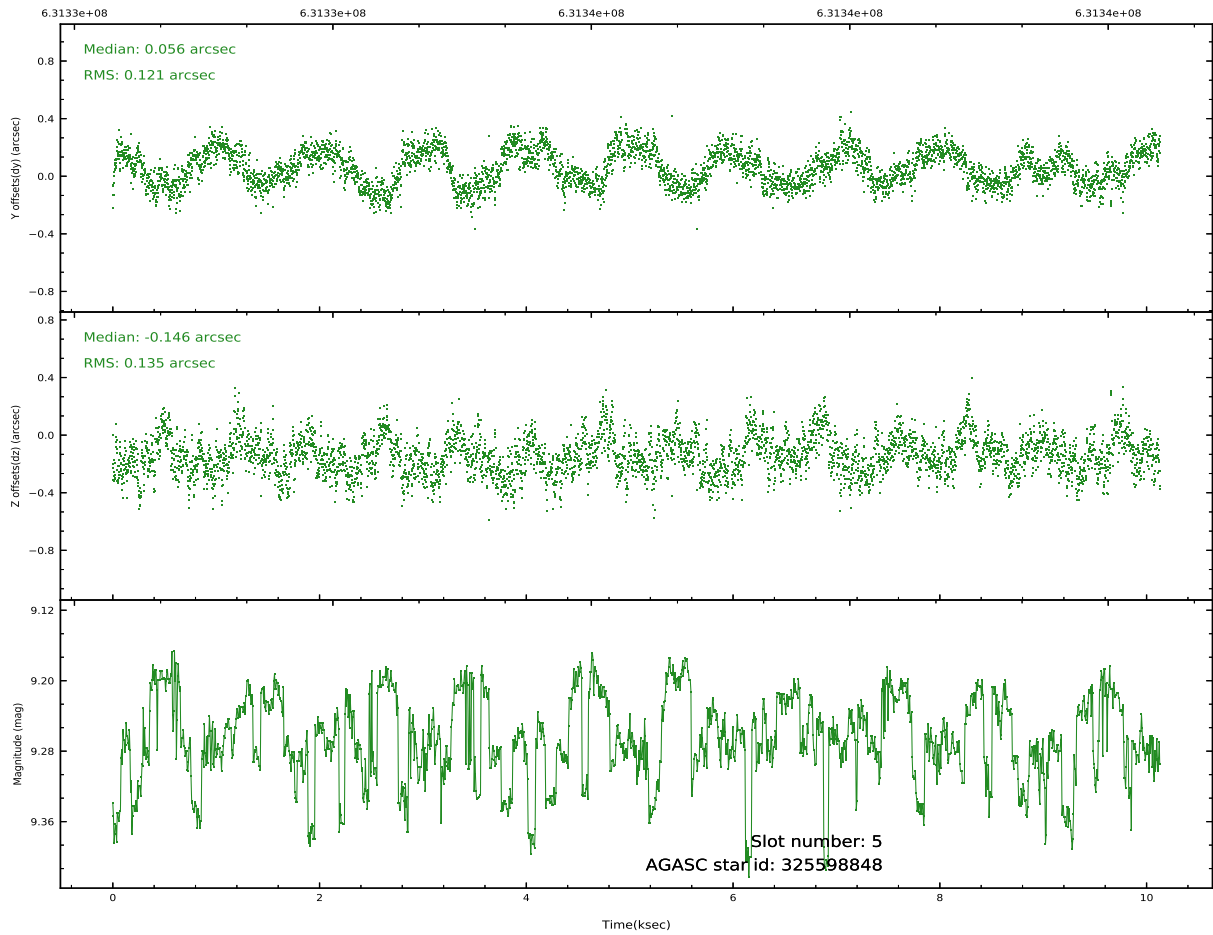
2.4.2 Slot 4



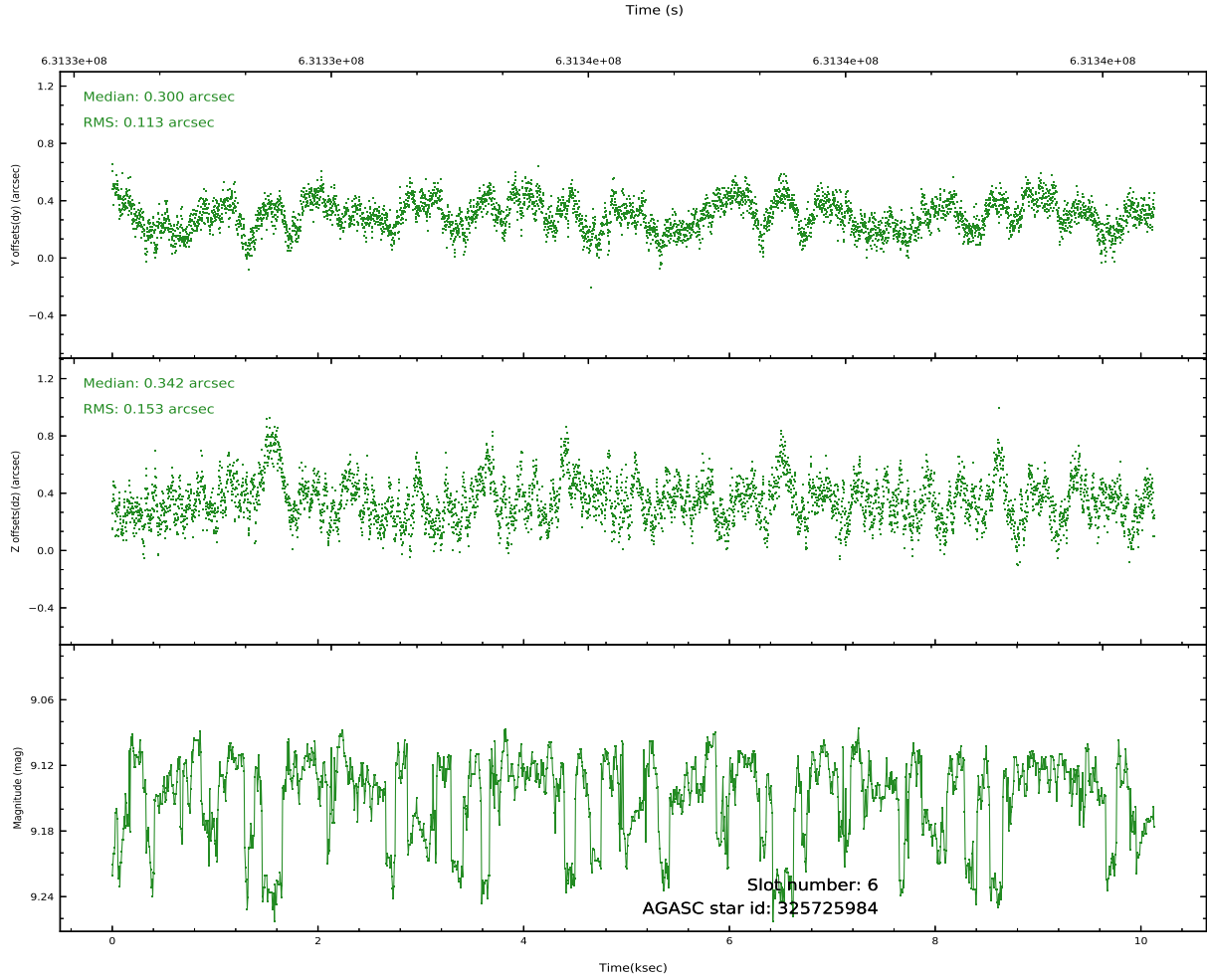
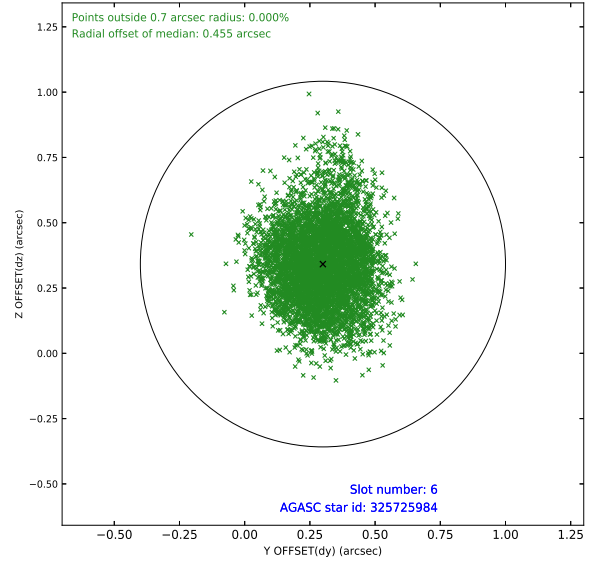
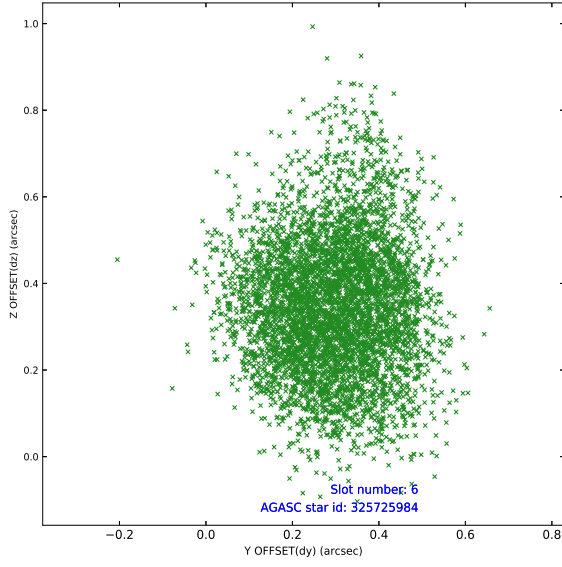
2.4.3 Slot 5



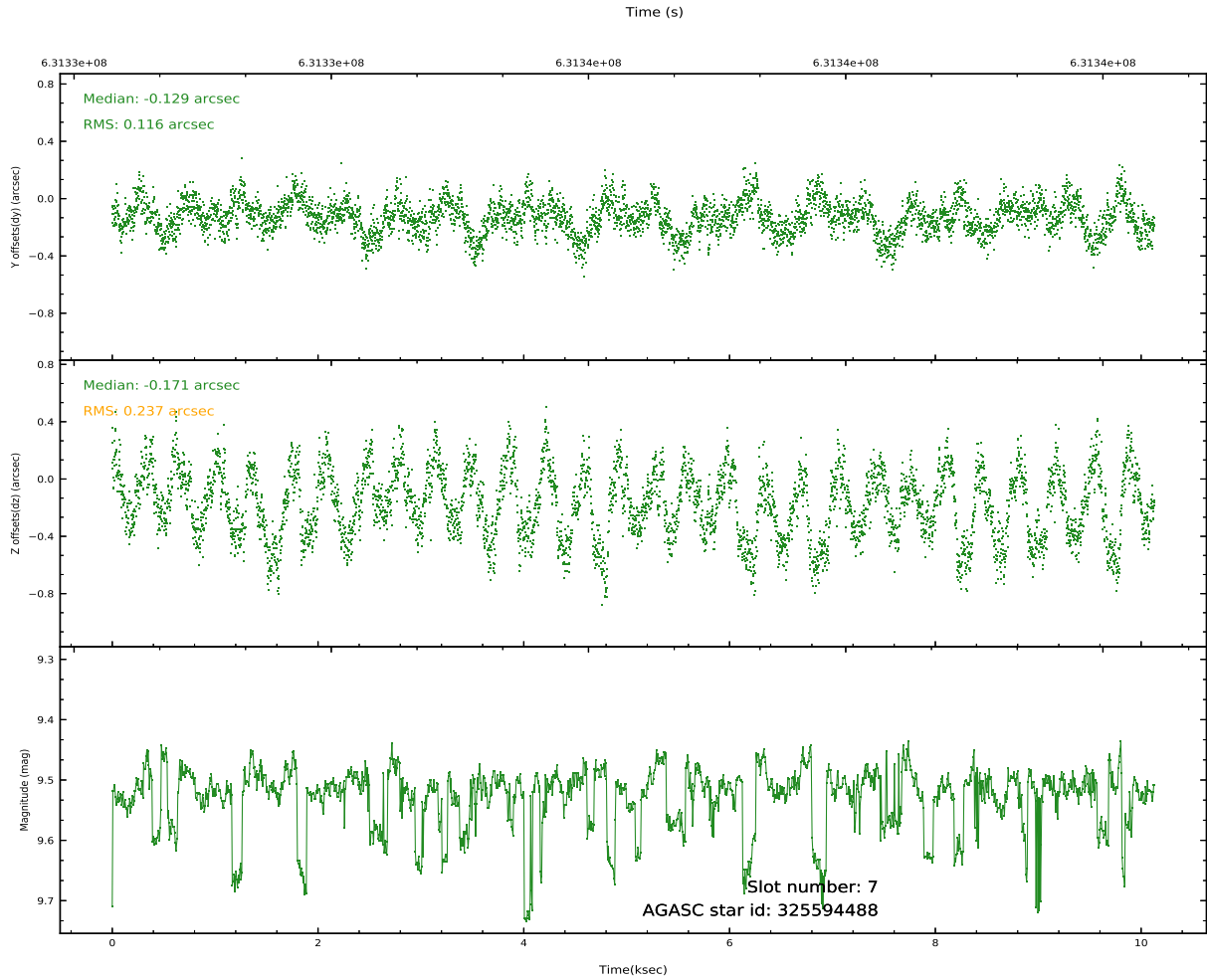
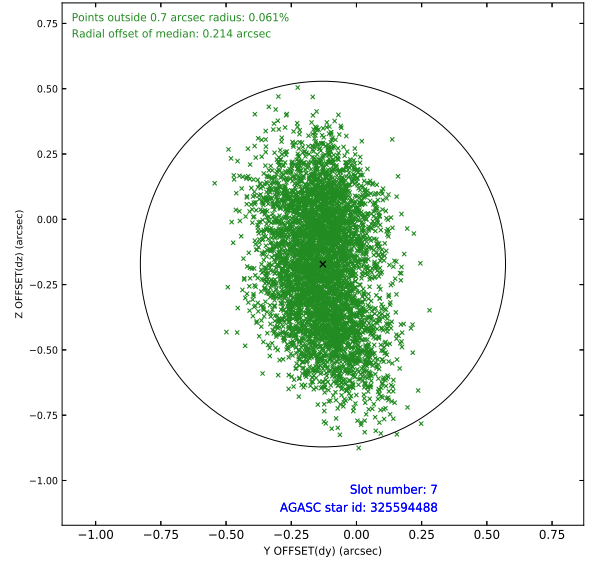
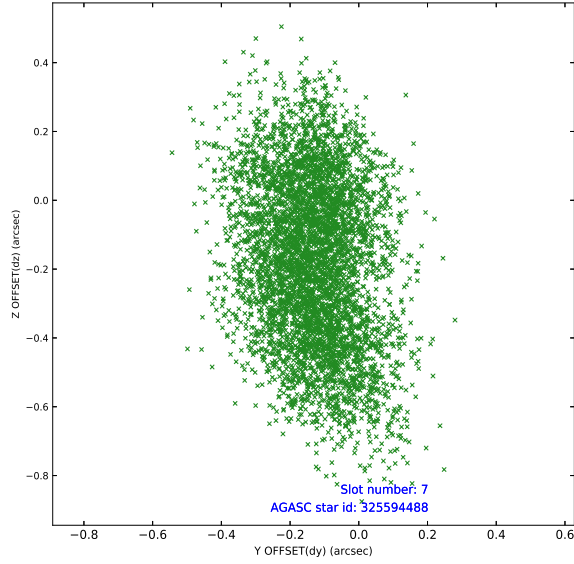
Time (s)



2.4.4 Slot 6

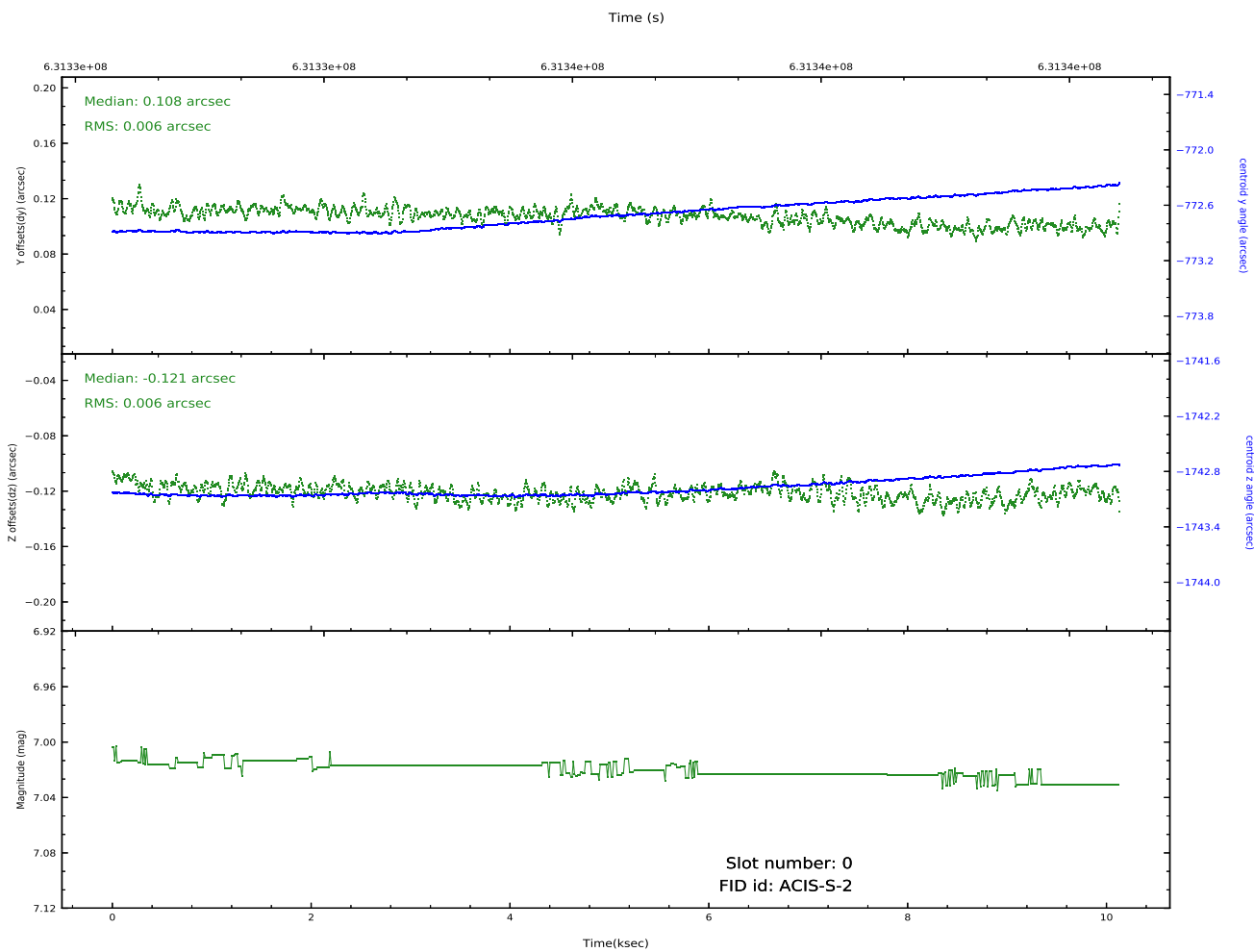
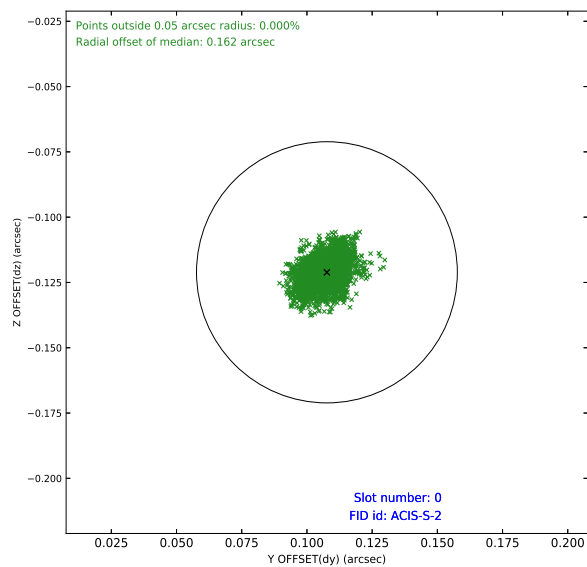
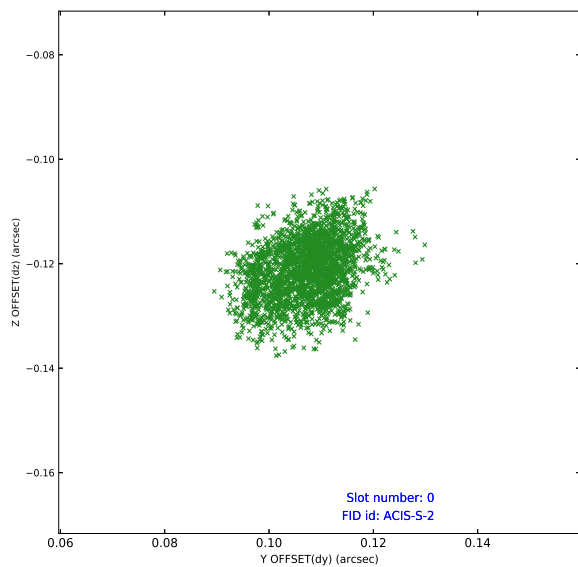


2.4.5 Slot 7

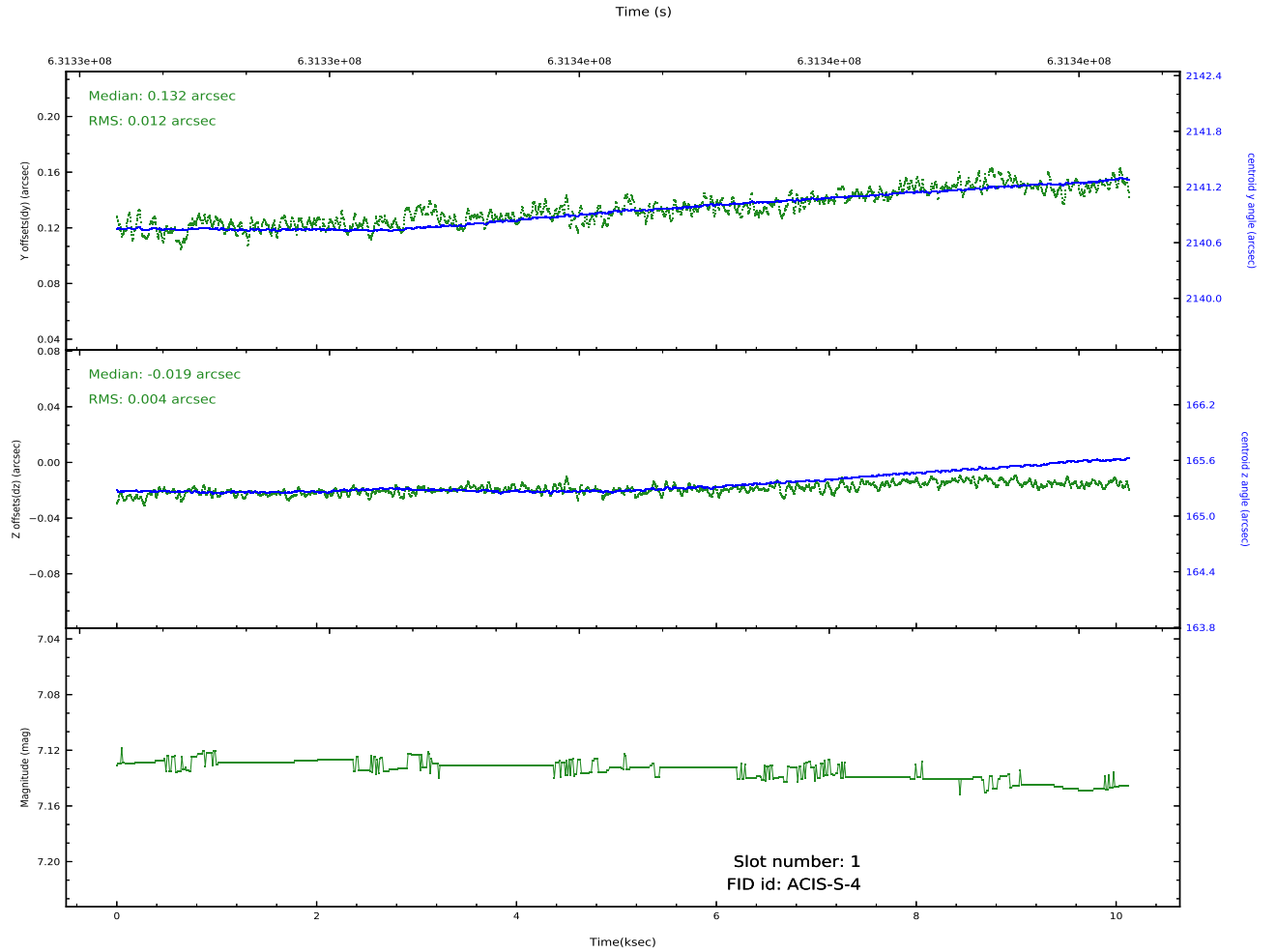
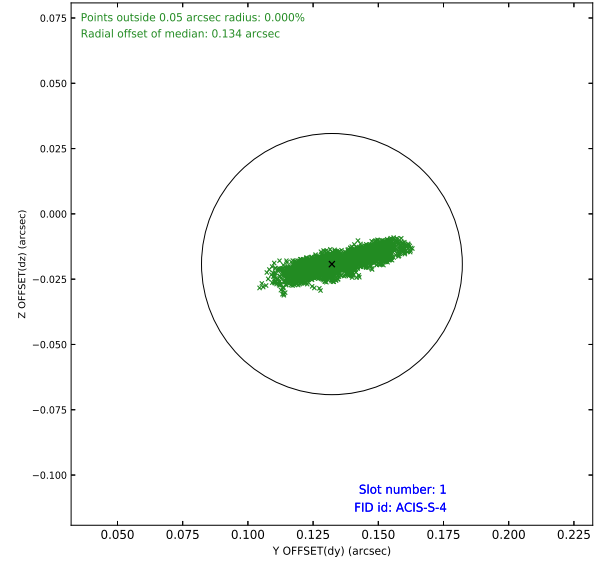
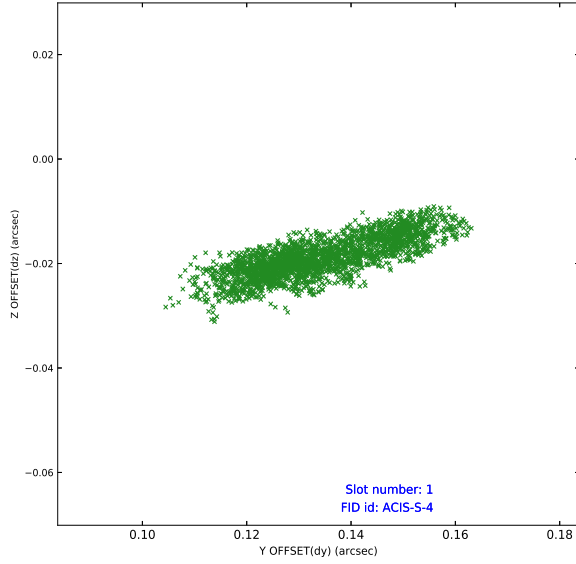


2.5 FID Slots

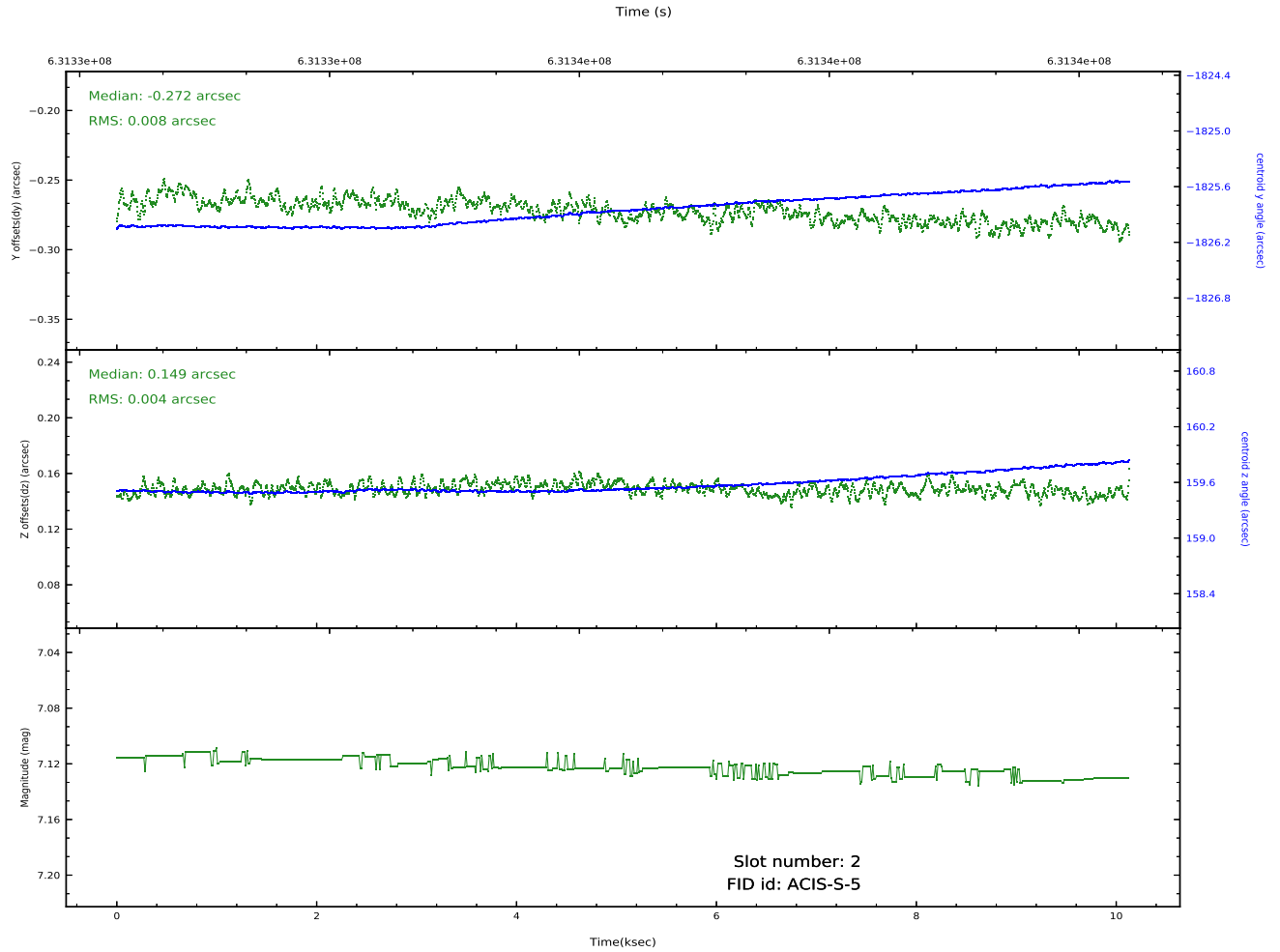
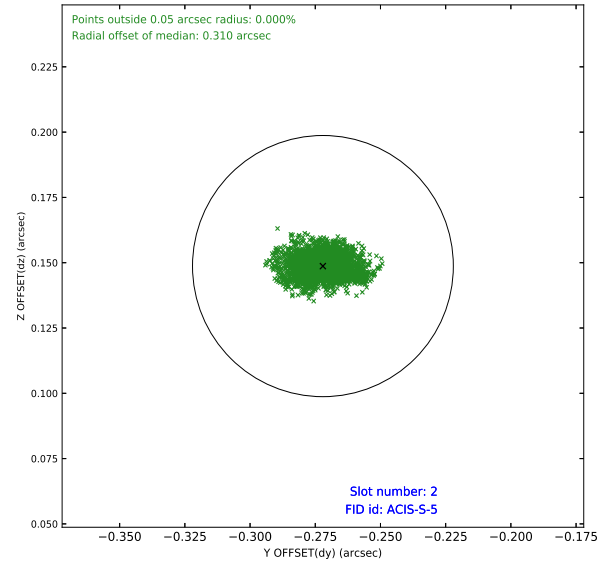
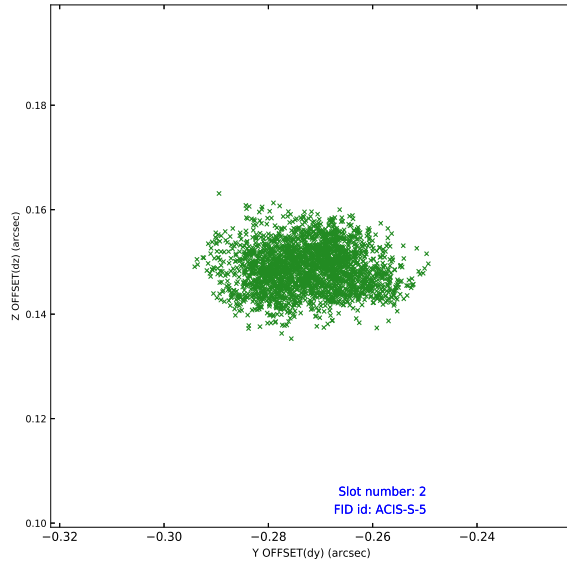
2.5.1 Slot 0



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	10.06260007751

A.2 Comments