

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5758 - L2 Version 4
Chandra X-Ray Center

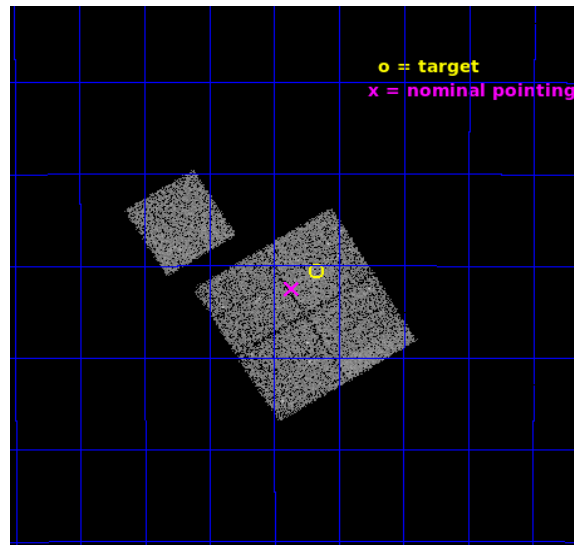
L2 Processing Date : Oct 5 2020

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1 Front

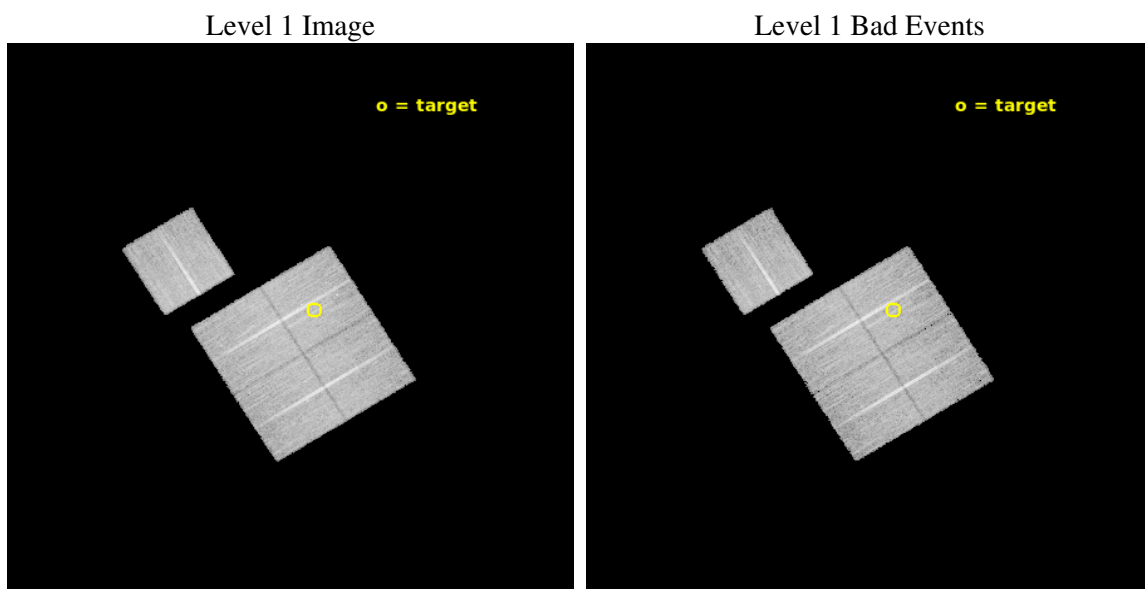
seq_num	800471	Sequence number
obs_id	5758	Observation id
title	DARK ENERGY WITH X-RAY CLUSTERS: CHANDRA OBSERVATIONS OF 41 HIGH-REDSHIFT CLUSTERS FROM THE 400 deg^2 ROSAT PSPC SURVEY	Proposal titl
observer	Dr Alexey Vikhlinin	Principal investigator
object	CIG J0521-2530	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	80.29375	Observer's specified target RA [deg]
dec_targ	-25.51	Observer's specified target Dec [deg]
ra_nom	80.340976620005	Nominal RA [deg]
dec_nom	-25.541734394052	Nominal Dec [deg]
roll_nom	328.30932115782	Nominal Roll [deg]
revision	4	Processing version of data
ontime	15162.099970818	Sum of GTIs [s]
livetime	14963.995972523	Livetime [s]
ontime0	15162.099970818	Sum of GTIs [s]
ontime1	15162.099970818	Sum of GTIs [s]
ontime2	15158.95898056	Sum of GTIs [s]
ontime3	15162.099970818	Sum of GTIs [s]
ontime6	15158.958990574	Sum of GTIs [s]
l2events	37422	Number of level 2 events



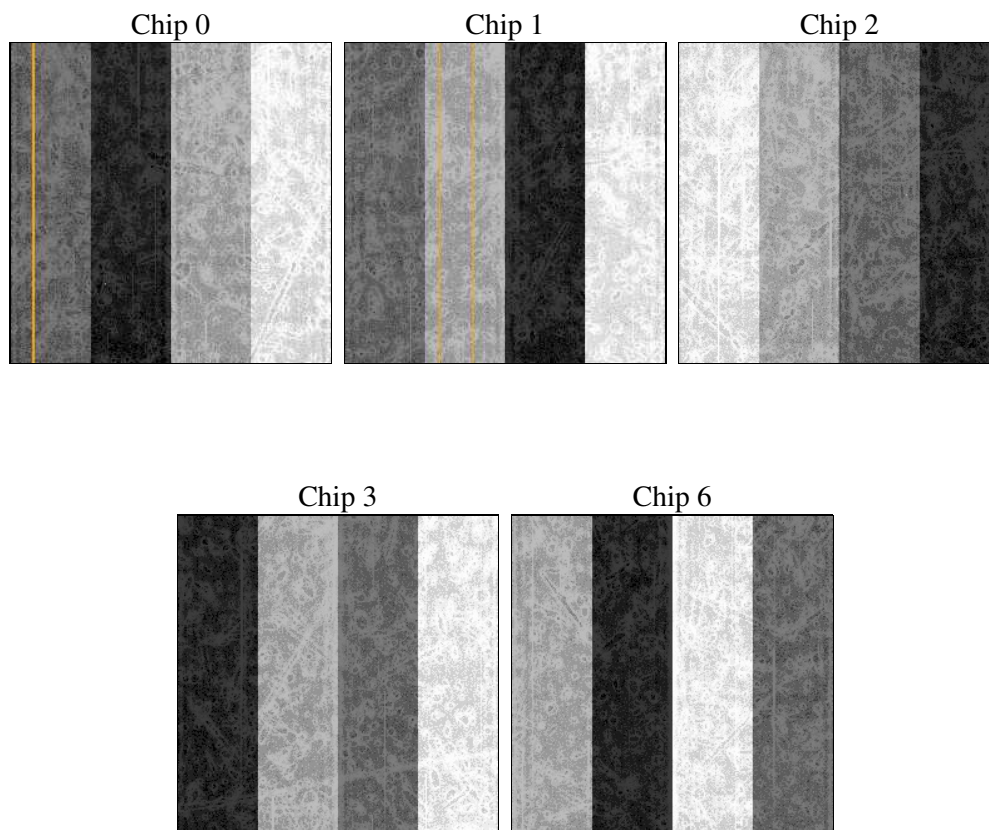
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	15162.099970818	Sum of GTIs [s]
caldsver	4.9.2	 	ontime0	15162.099970818	Sum of GTIs [s]
date	2020-10-06T02:43:24	Date and time of file creation	ontime1	15162.099970818	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	15158.95898056	Sum of GTIs [s]
			ontime3	15162.099970818	Sum of GTIs [s]
			ontime6	15158.958990574	Sum of GTIs [s]
			l1events	437533	Number of level 1 events

2.1.4 Events

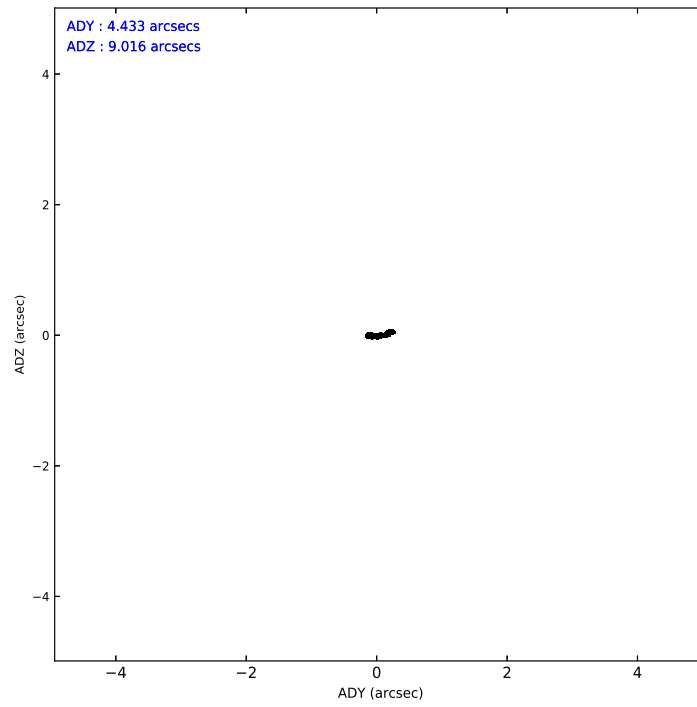
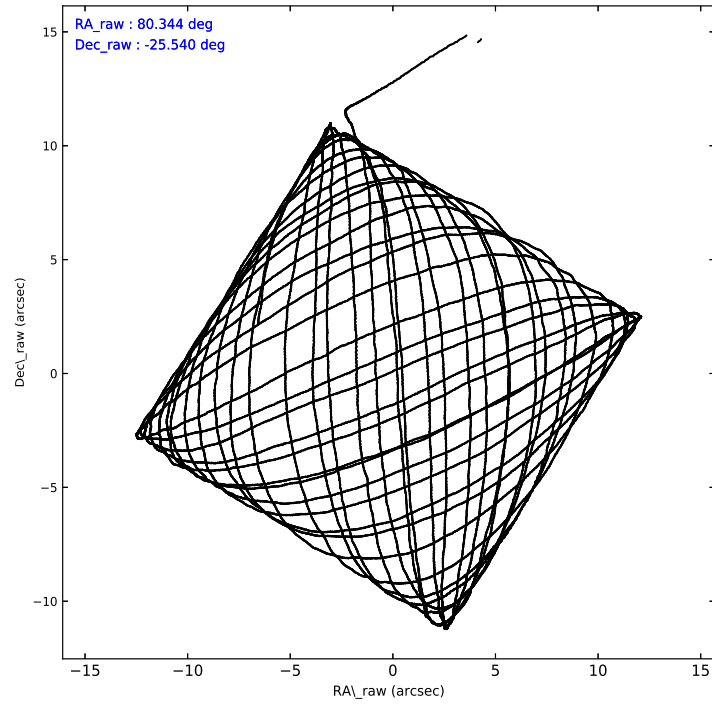
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	83575	81285	91981	91639	89053
rejected events	74547	71490	83494	82679	80070
rejected %	89%	87%	90%	90%	89%

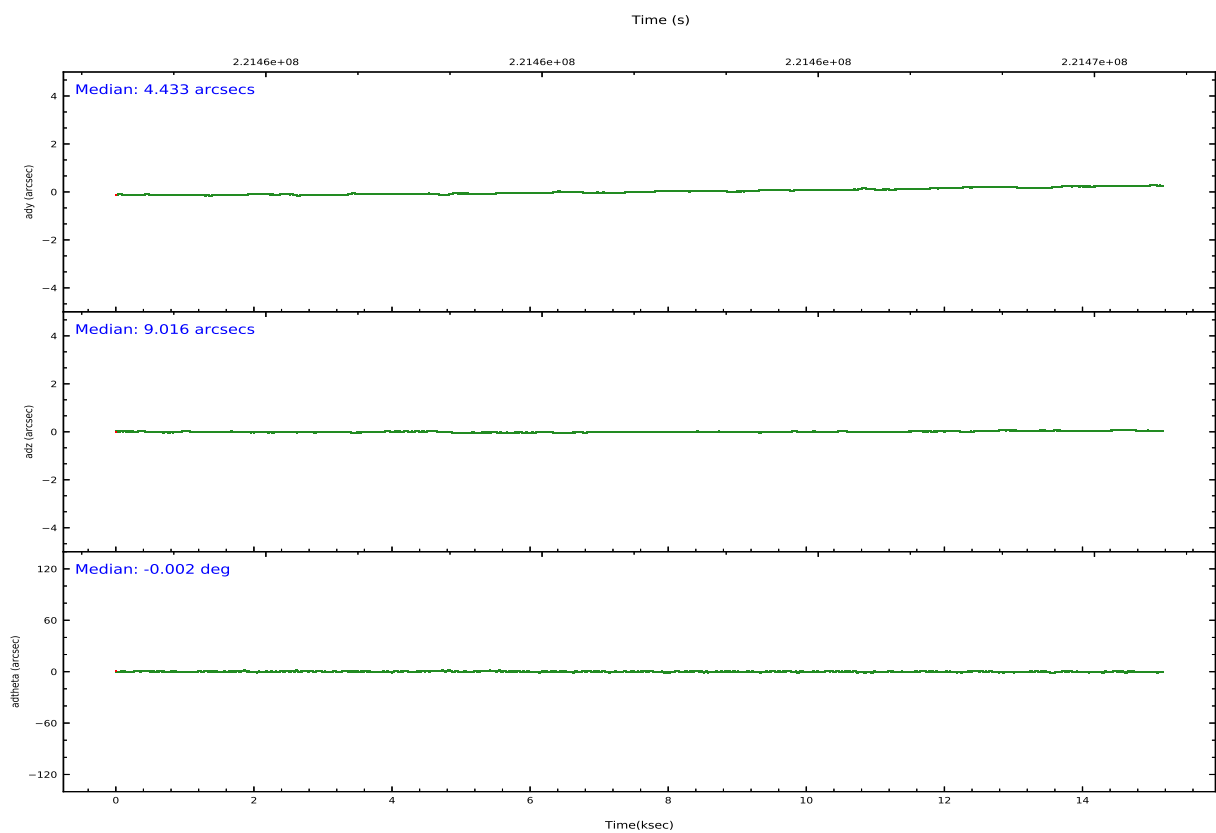
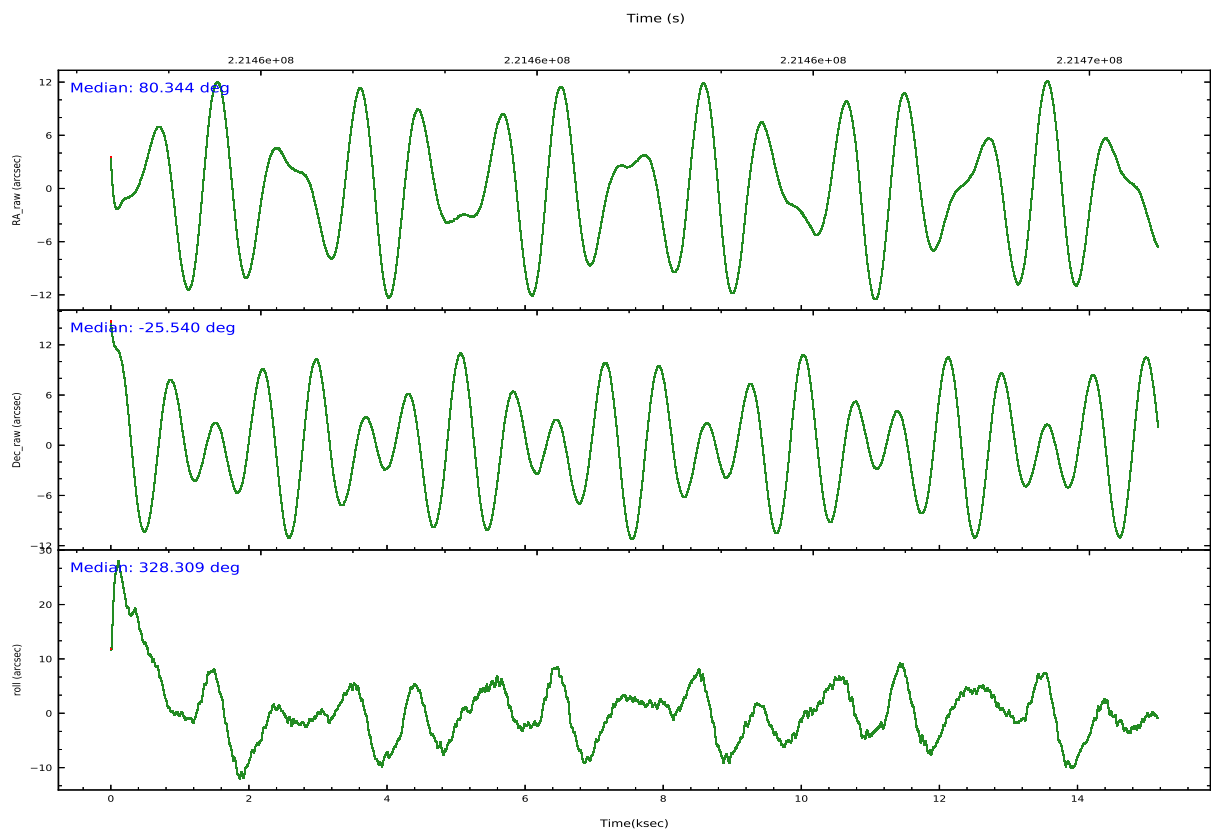
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	3245	3576	3138	3531	3103
	3%	4%	3%	3%	3%
grade 1 events	38	47	48	54	31
	0%	0%	0%	0%	0%
grade 2 events	2145	2134	1951	1917	1976
	2%	2%	2%	2%	2%
grade 3 events	1045	1097	978	935	1083
	1%	1%	1%	1%	1%
grade 4 events	994	1092	984	982	1059
	1%	1%	1%	1%	1%
grade 5 events	3170	3331	3132	3548	3435
	3%	4%	3%	3%	3%
grade 6 events	1729	2001	1541	1693	1877
	2%	2%	1%	1%	2%
grade 7 events	71209	68007	80209	78979	76489
	85%	83%	87%	86%	85%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	80.313425	80.34097662000499	Subarray requested	NONE	NONE
[deg] Pointing Dec	-25.539511	-25.541734394052	Alternating exposures requested	N	N
[deg] Pointing Roll	328.095258	328.30932115782	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-225.840463	-225.8433433320239			
[mm] SIM translation stage offset	-7.752	-7.749109670905796			
[s] Observation start time (MET)	221453996.184000	221452928.29831			
Observation start date	2005-01-07T02:58:52	2005-01-07T02:42:08			
[s] Observation end time (MET)	221468996.184000	221469777.24907			
Observation end date	2005-01-07T07:08:52	2005-01-07T07:22:57			
Read mode	TIMED	TIMED			

2.3 Aspect



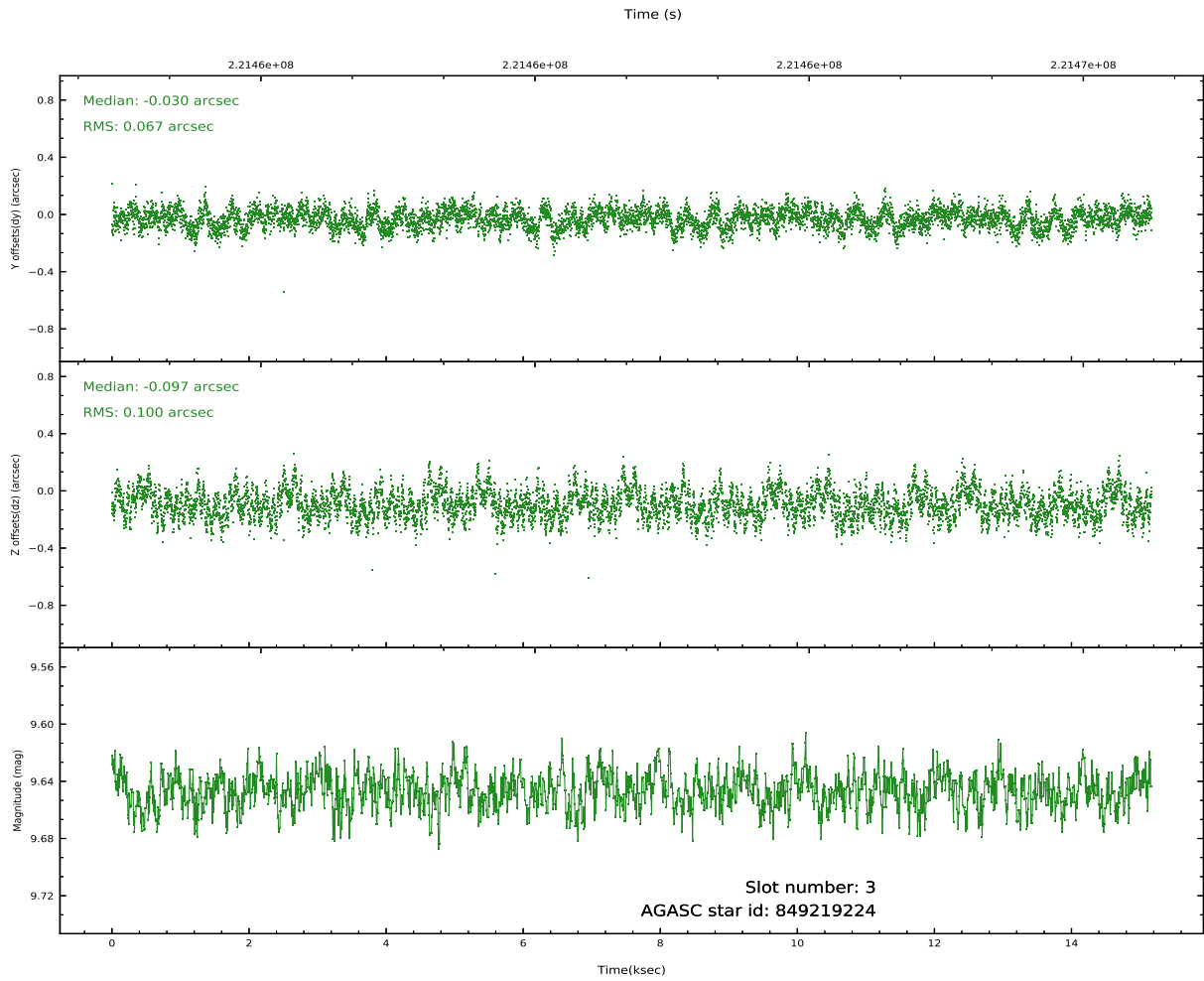
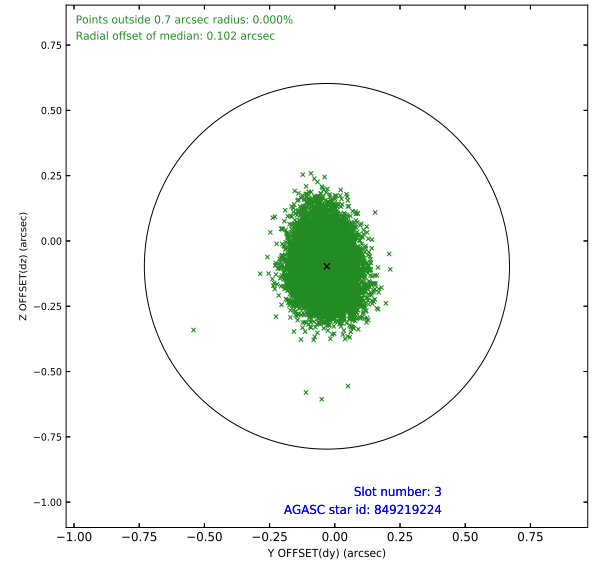
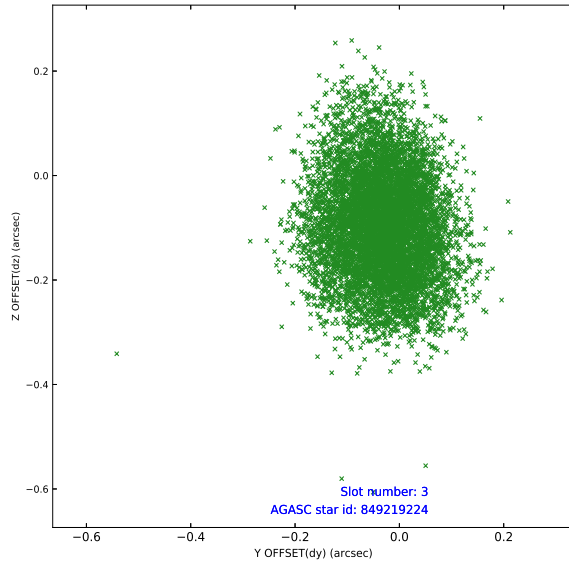


Slot Statistics

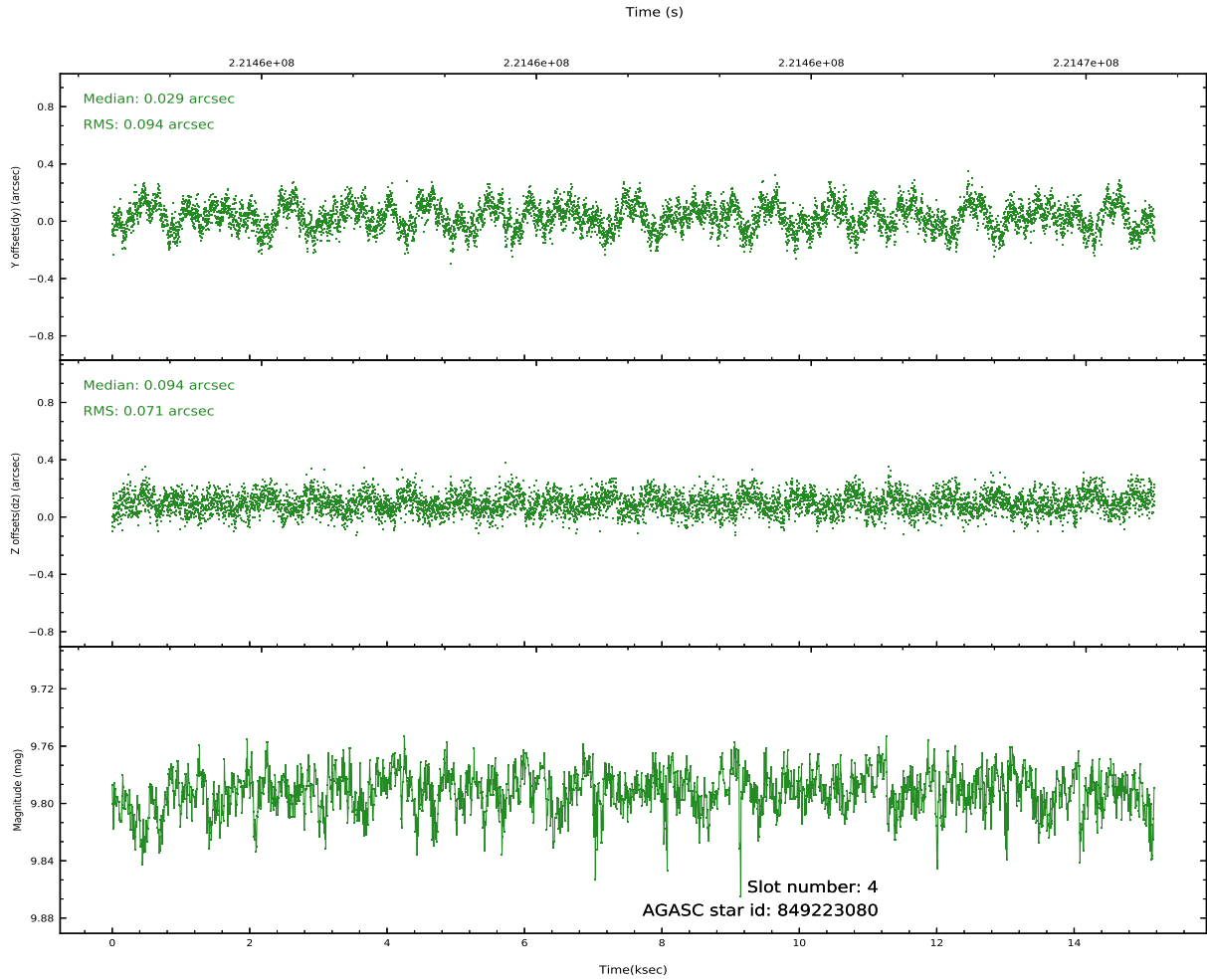
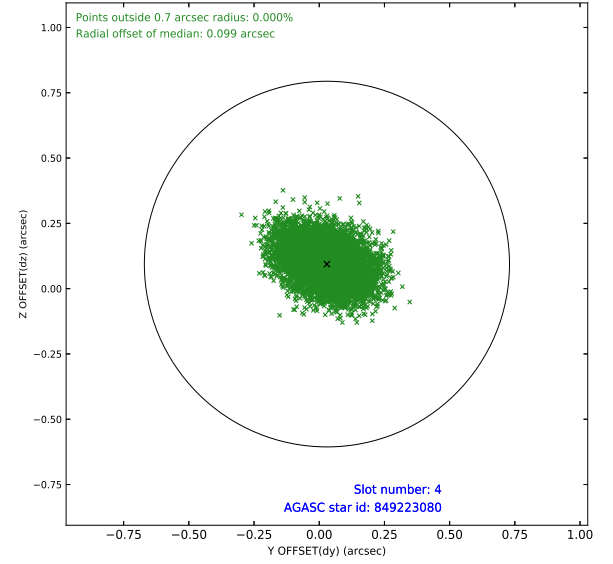
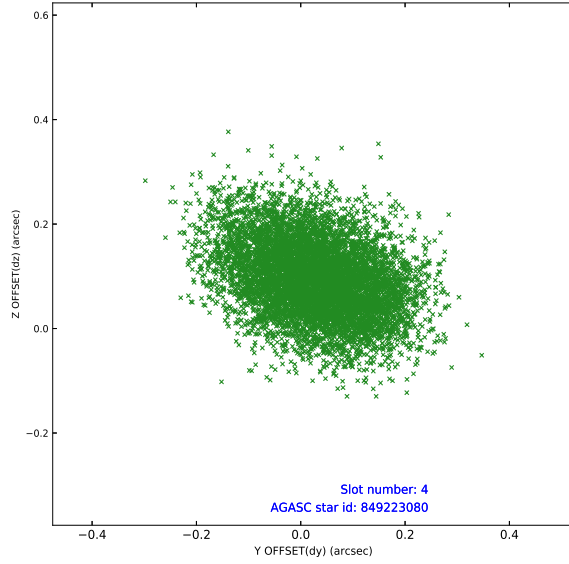
	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	m
	FID		ACIS-I-1	7.23	3700	1.000	0.097	-0.089	0.007	0.012	0.000000	0.000000	935.26	-9
	FID		ACIS-I-5	7.22	3700	1.000	-0.298	0.065	0.007	0.012	0.000000	0.000000	-1813.09	9
	FID		ACIS-I-6	7.25	3700	1.000	0.109	0.095	0.009	0.014	0.000000	0.000000	400.47	15
	GUIDE	used	849219224	9.65	7390	1.000	-0.030	-0.097	0.128	0.208	79.917999	-26.007007	-194.96	-21
	GUIDE	used	849223080	9.79	7396	1.000	0.029	0.094	0.126	0.203	80.051501	-24.976586	-1796.15	12
	GUIDE	used	849225368	9.90	7396	1.000	0.118	0.097	0.149	0.238	80.439195	-25.283120	-140.23	10
	GUIDE	used	849226272	8.40	7396	1.000	0.021	0.073	0.067	0.110	80.214822	-25.538553	-273.31	-1
	BAD	used	849226688	5.43	3697	1.000	-0.268	-0.341	0.062	0.096	79.879916	-25.124188	-1988.54	5

2.4 Star Slots

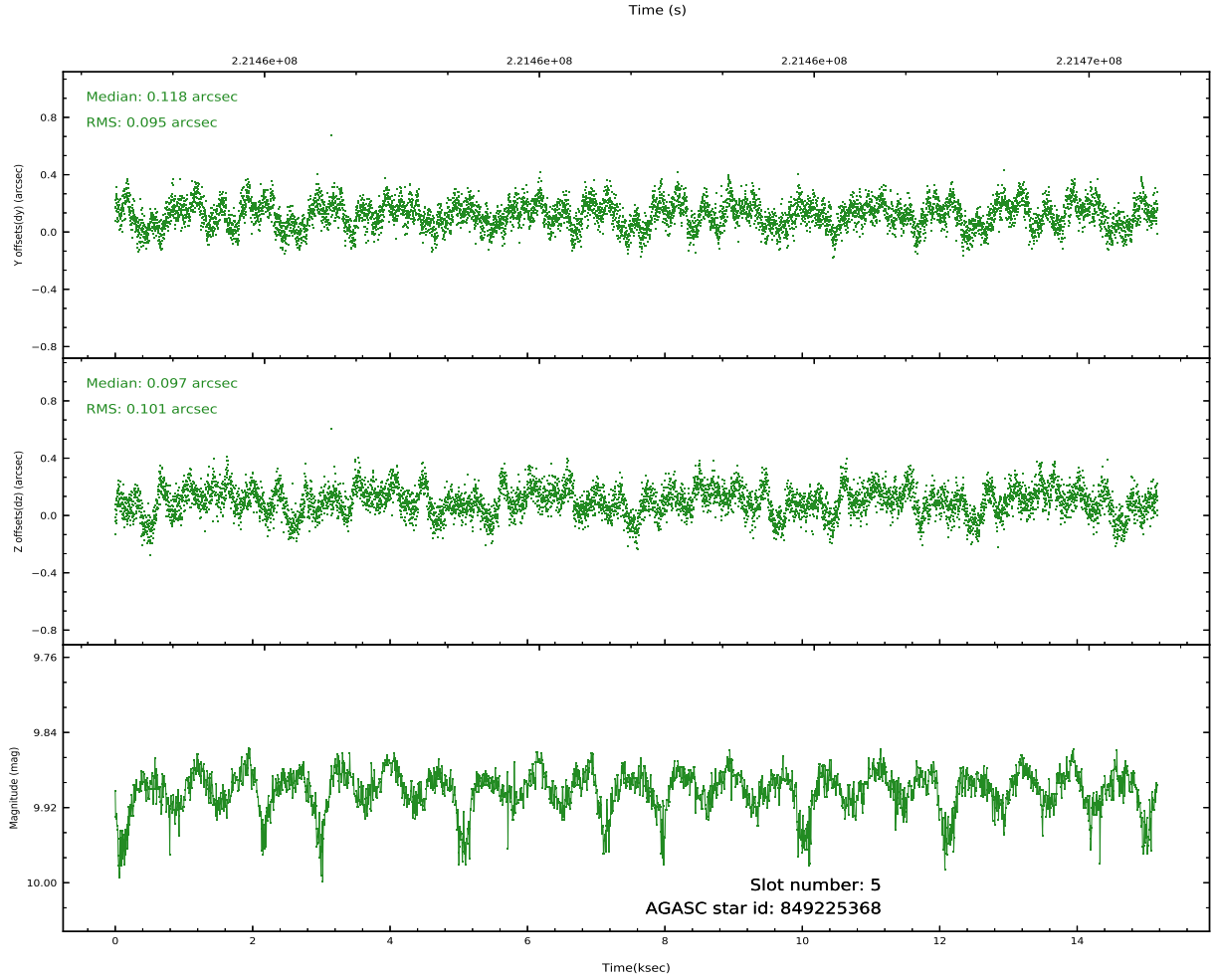
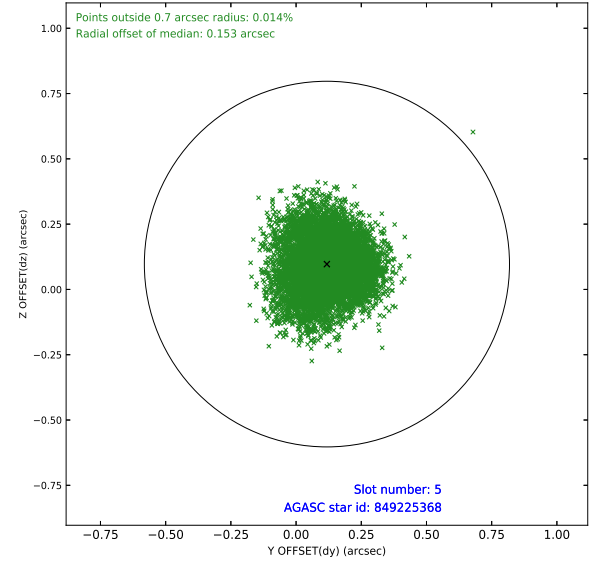
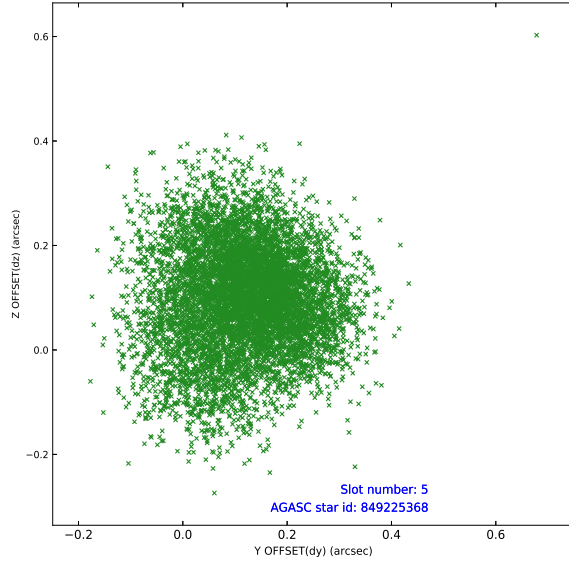
2.4.1 Slot 3



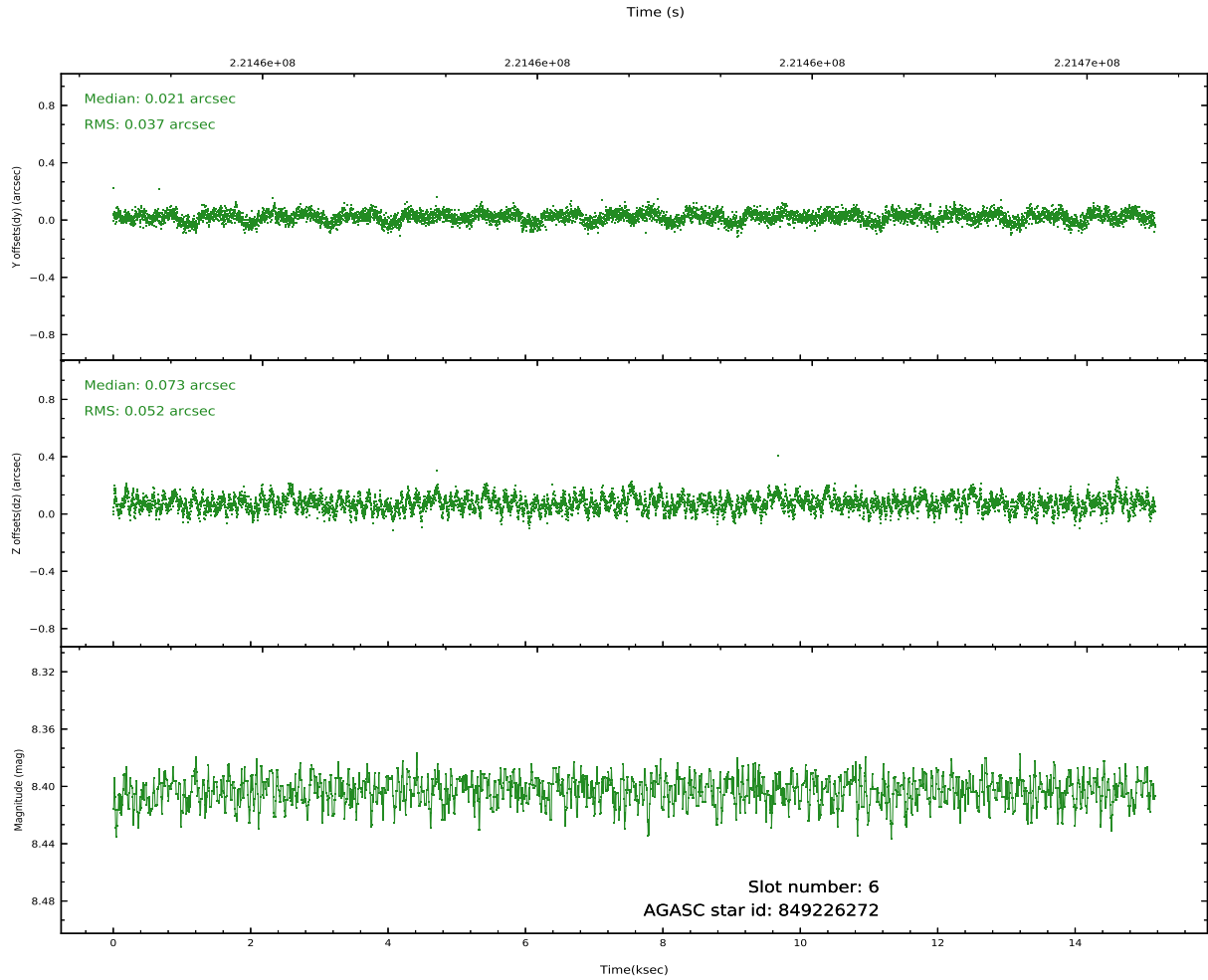
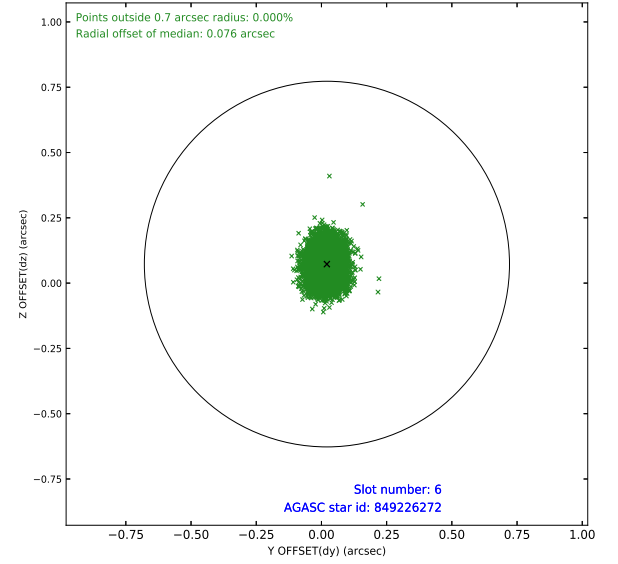
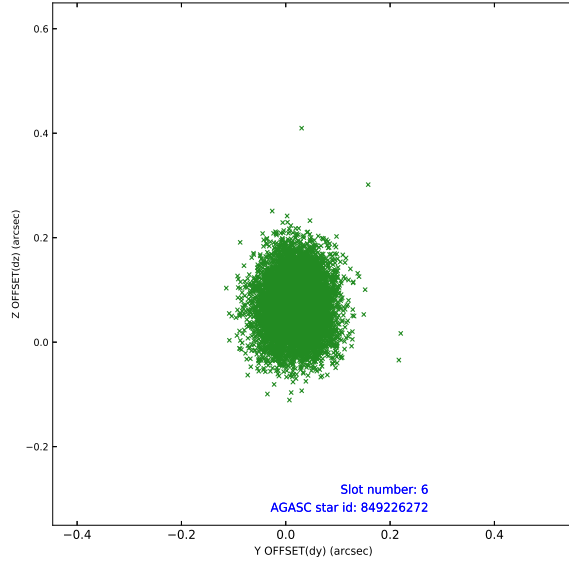
2.4.2 Slot 4



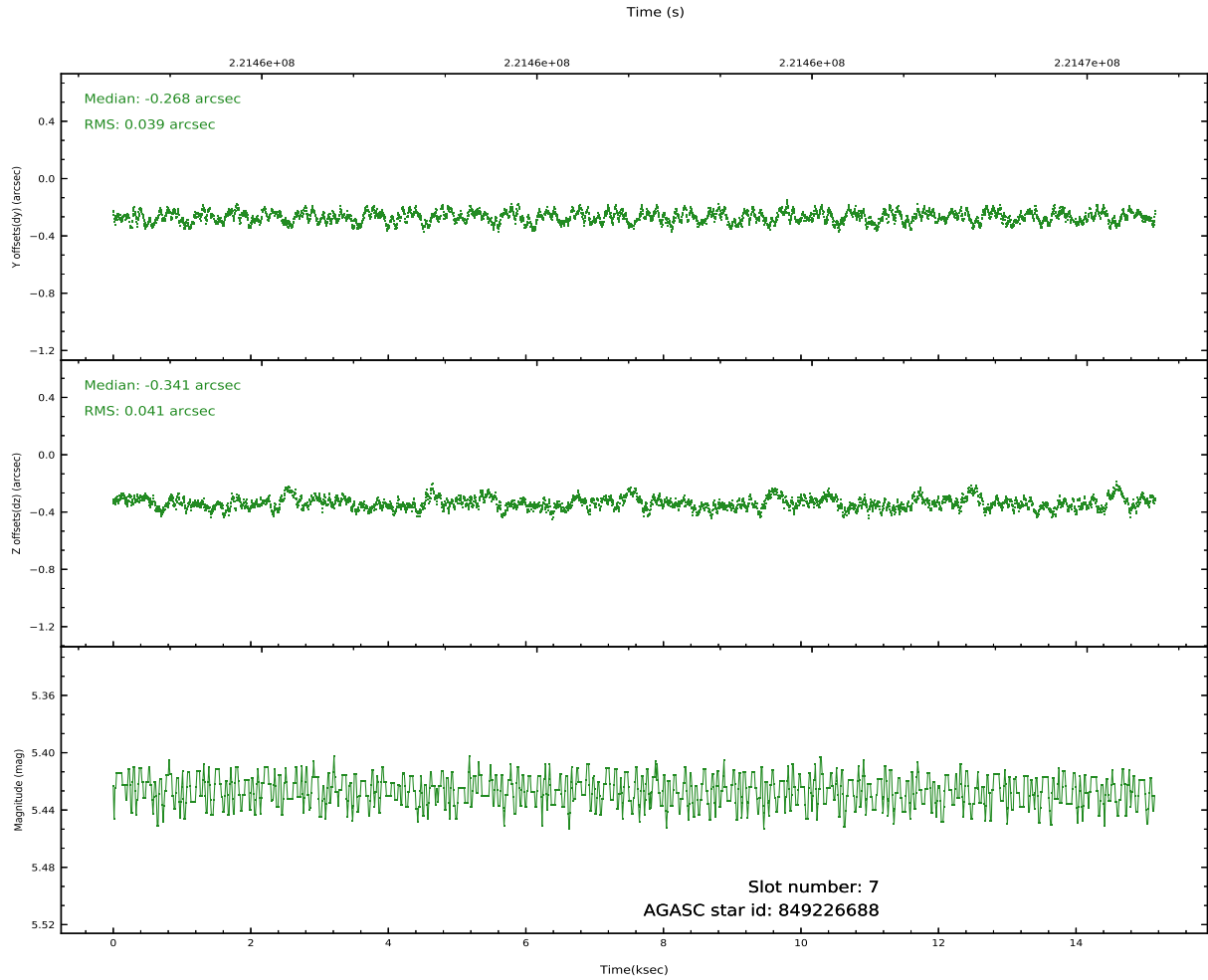
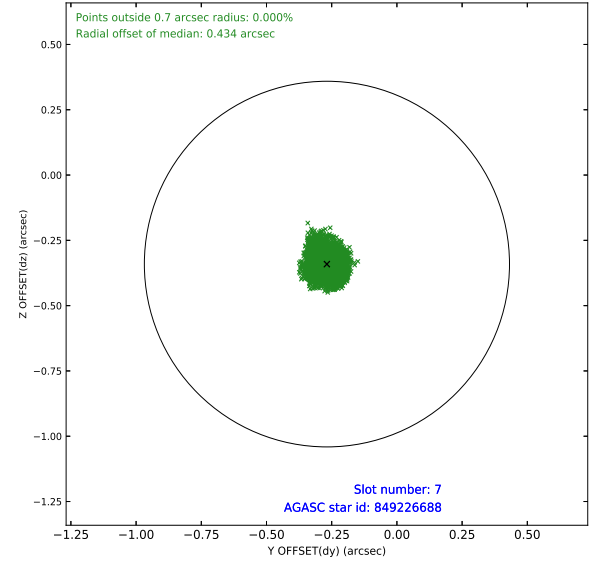
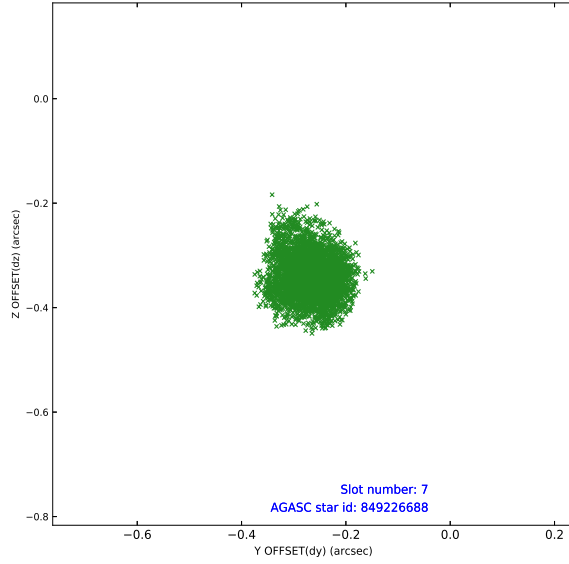
2.4.3 Slot 5



2.4.4 Slot 6

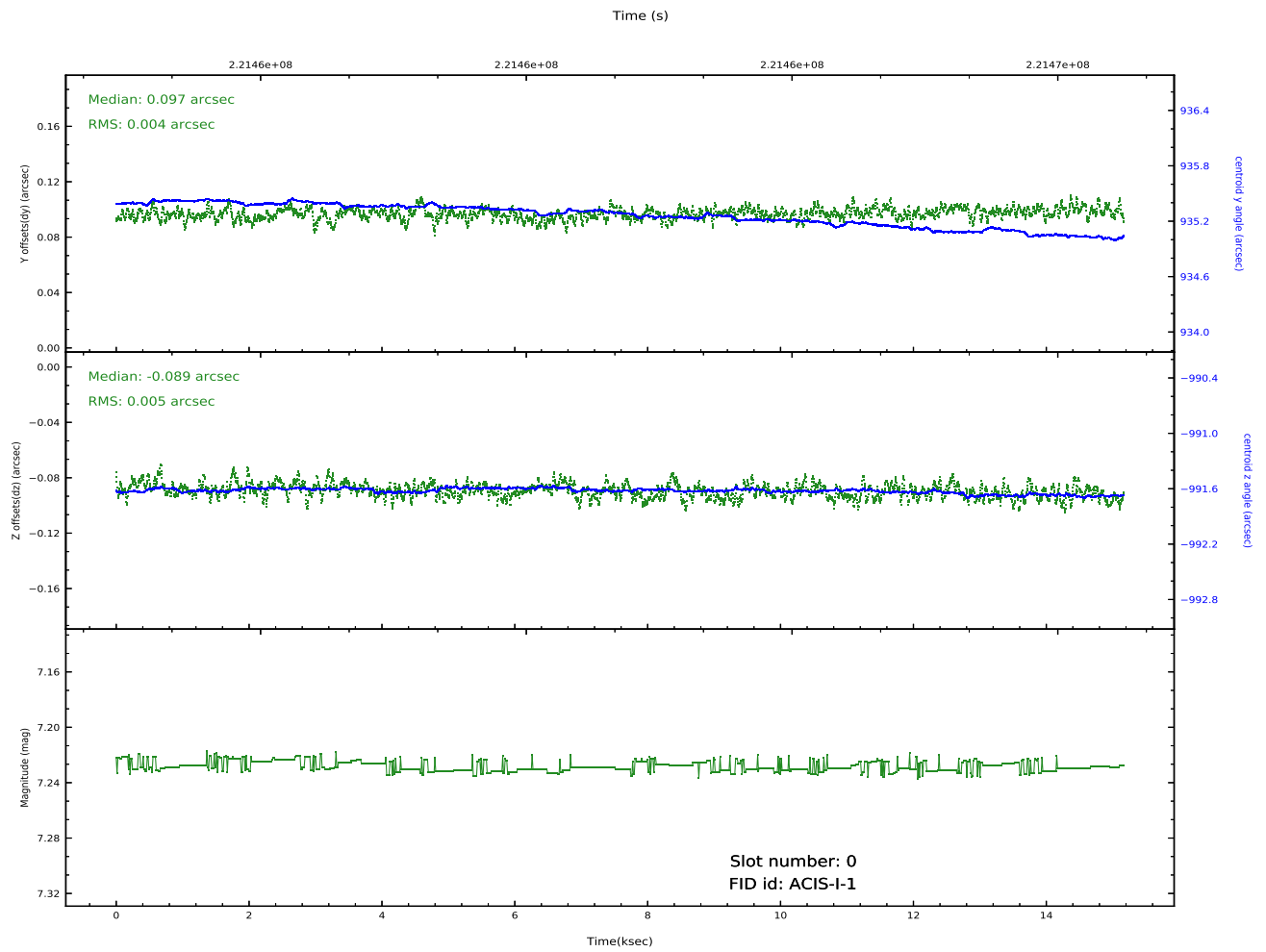
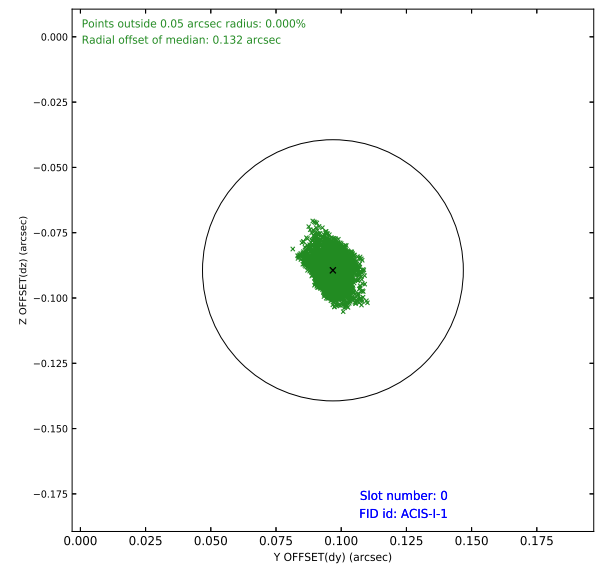
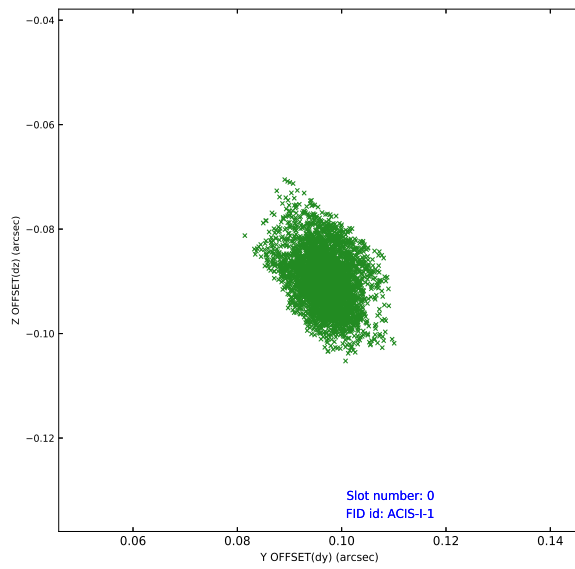


2.4.5 Slot 7

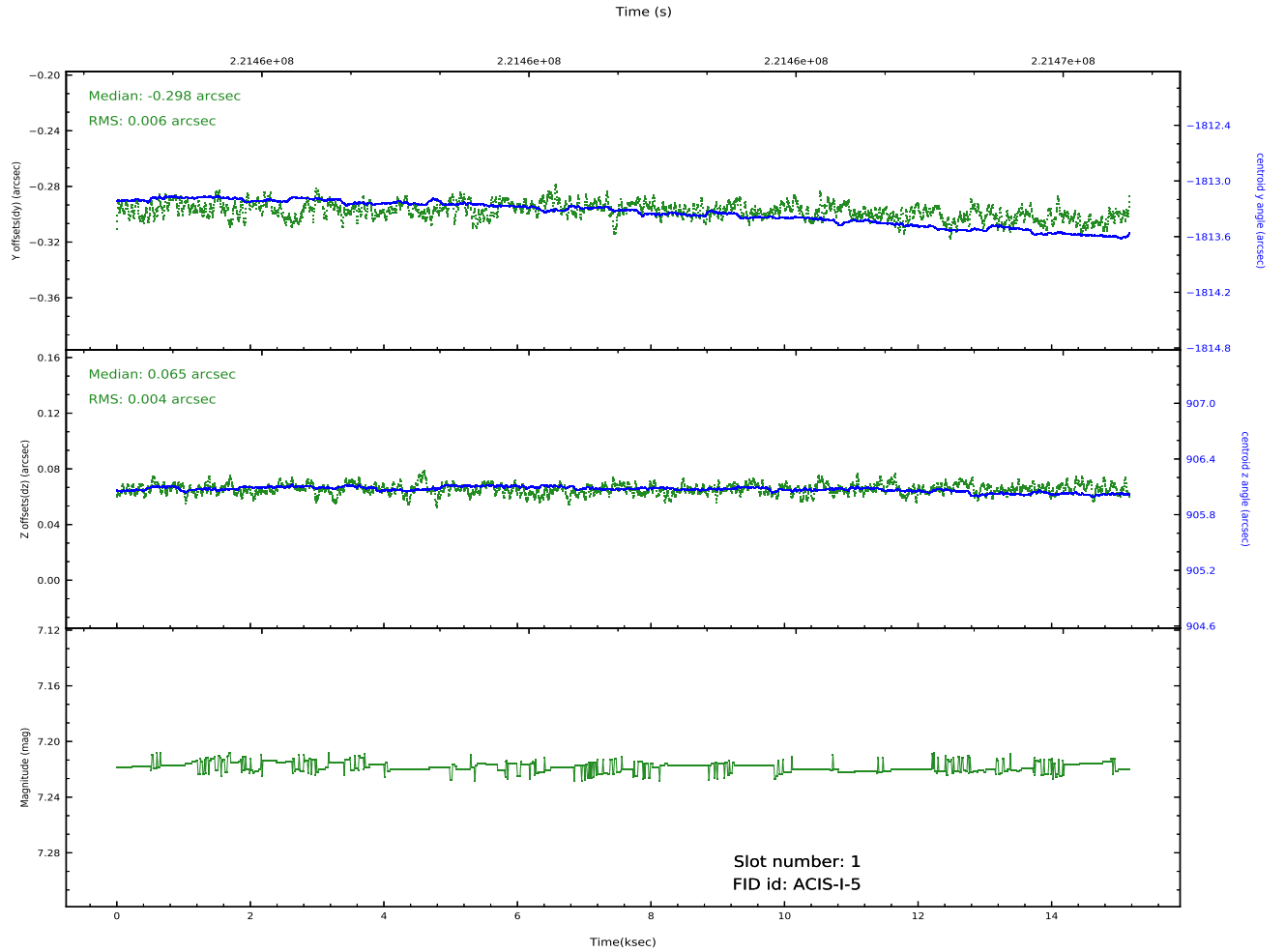
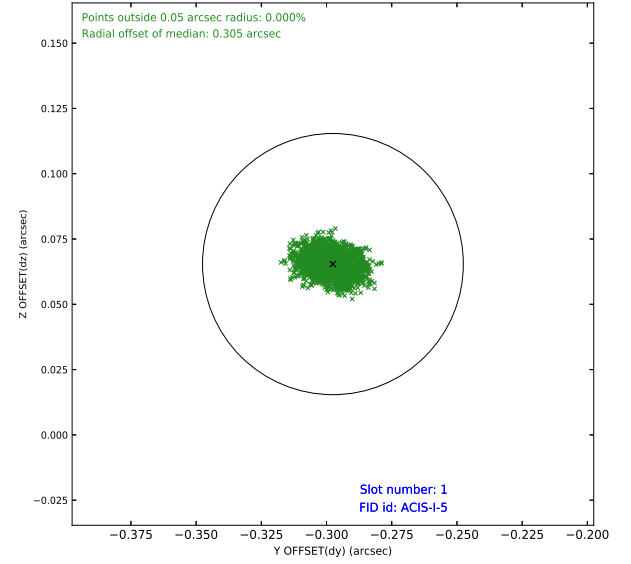
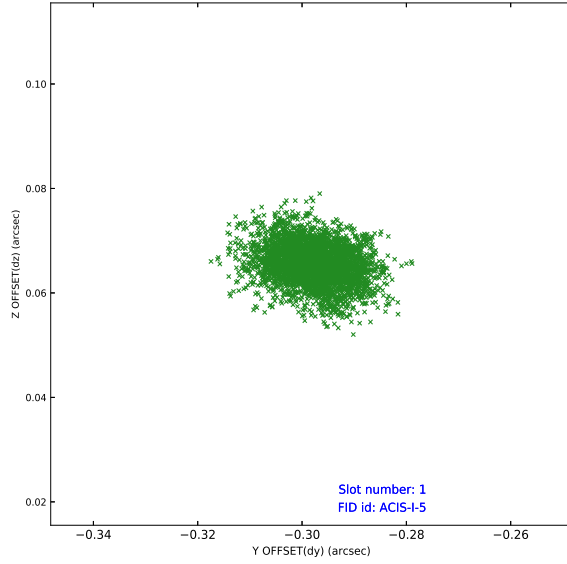


2.5 FID Slots

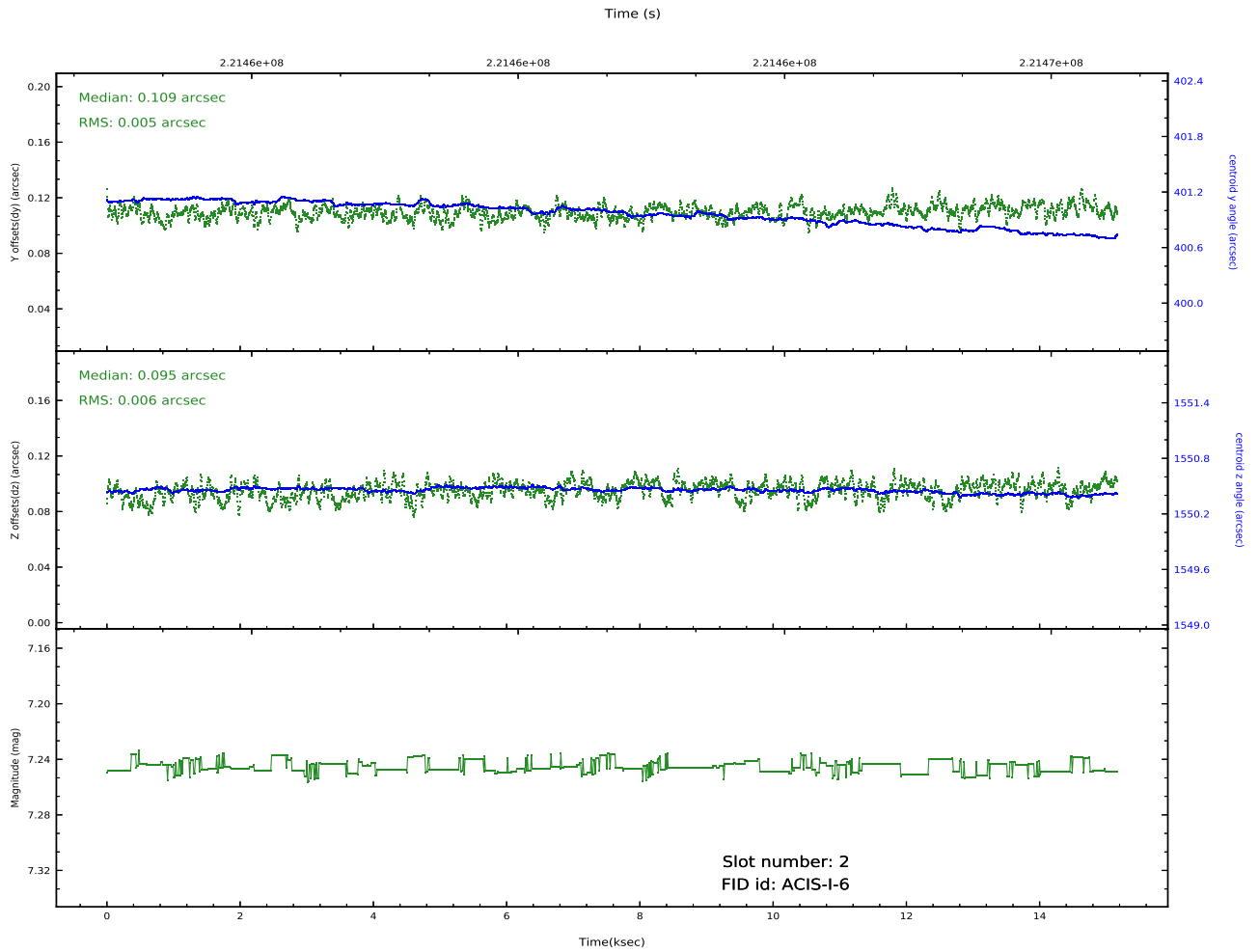
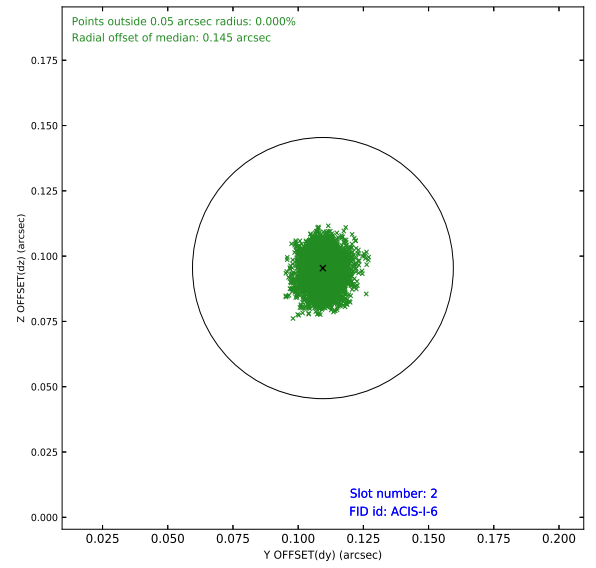
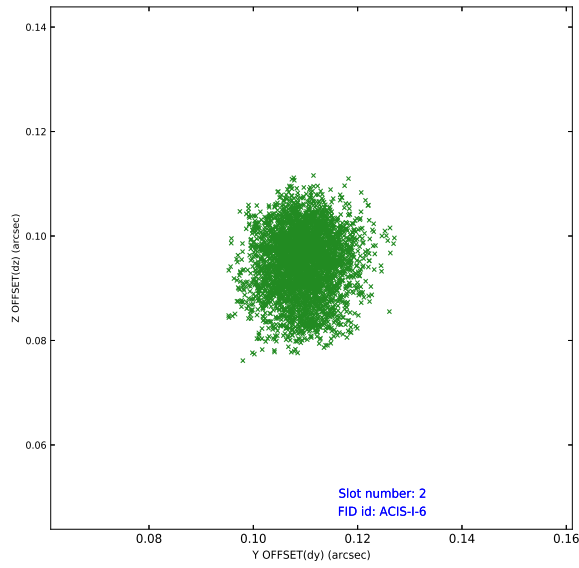
2.5.1 Slot 0



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)	2020.10.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.16209

A.2 Comments