

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5755 - L2 Version 4
Chandra X-Ray Center

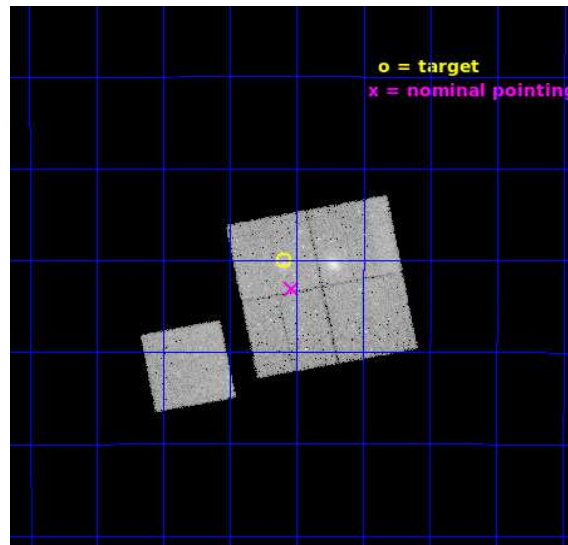
L2 Processing Date : Oct 7 2020

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1 Front

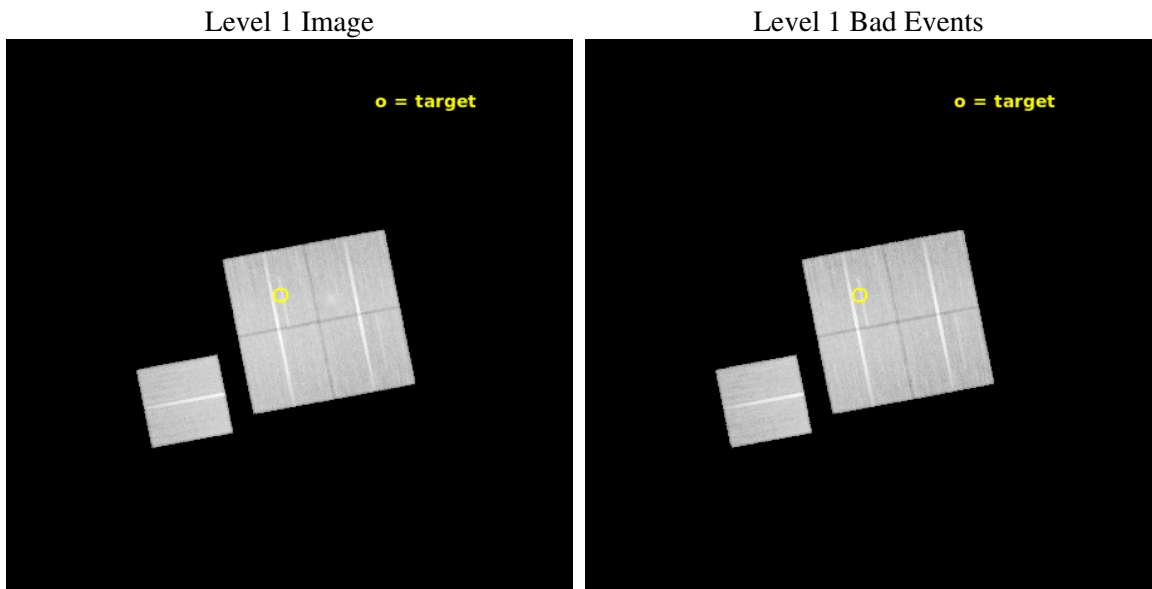
seq_num	800468	Sequence number
obs_id	5755	Observation id
title	DARK ENERGY WITH X-RAY CLUSTERS: CHANDRA OBSERVATIONS OF 41 HIGH-REDSHIFT CLUSTERS FROM THE 400 deg ² ROSAT PSPC SURVEY	Proposal titl
observer	Dr Alexey Vikhlinin	Principal investigator
object	CIG J0328-2140	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	52.150417	Observer's specified target RA [deg]
dec_targ	-21.667778	Observer's specified target Dec [deg]
ra_nom	52.13407243447	Nominal RA [deg]
dec_nom	-21.7182546552	Nominal Dec [deg]
roll_nom	258.99700275322	Nominal Roll [deg]
revision	4	Processing version of data
ontime	43864.918014973	Sum of GTIs [s]
livetime	43291.790568225	Livetime [s]
ontime0	43864.91795519	Sum of GTIs [s]
ontime1	43864.917965204	Sum of GTIs [s]
ontime2	43864.917945206	Sum of GTIs [s]
ontime3	43864.918014973	Sum of GTIs [s]
ontime6	43868.05892548	Sum of GTIs [s]
l2events	121342	Number of level 2 events



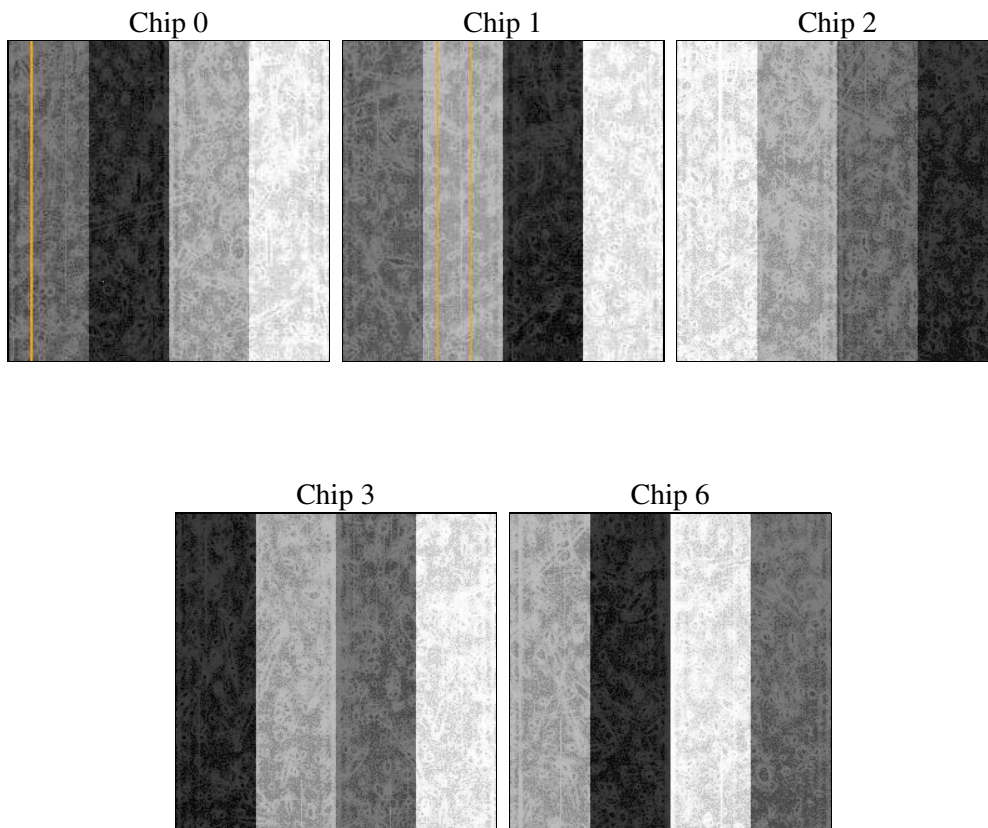
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	44100.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	43864.918014973	Sum of GTIs [s]
caldbver	4.9.2	 	ontime0	43864.91795519	Sum of GTIs [s]
date	2020-10-07T05:45:42	Date and time of file creation	ontime1	43864.917965204	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	43864.917945206	Sum of GTIs [s]
			ontime3	43864.918014973	Sum of GTIs [s]
			ontime6	43868.05892548	Sum of GTIs [s]
			l1events	1368902	Number of level 1 events

2.1.4 Events

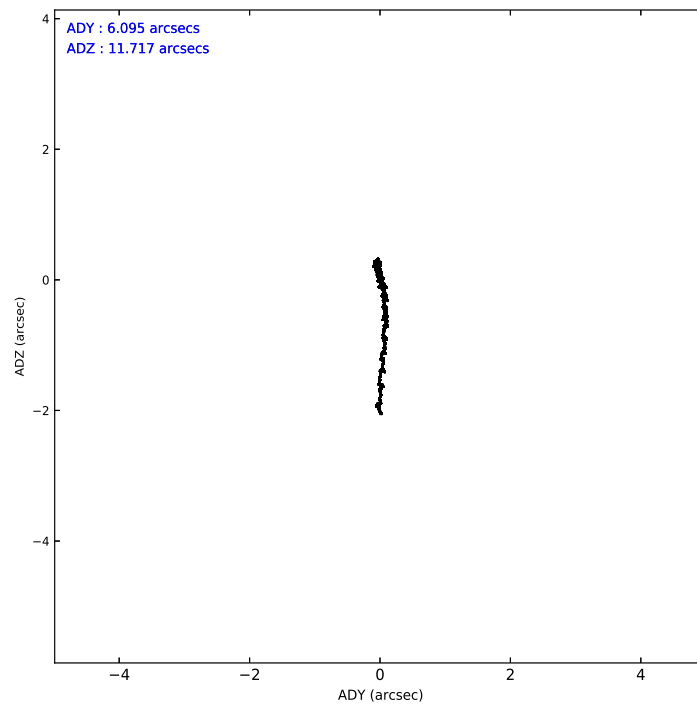
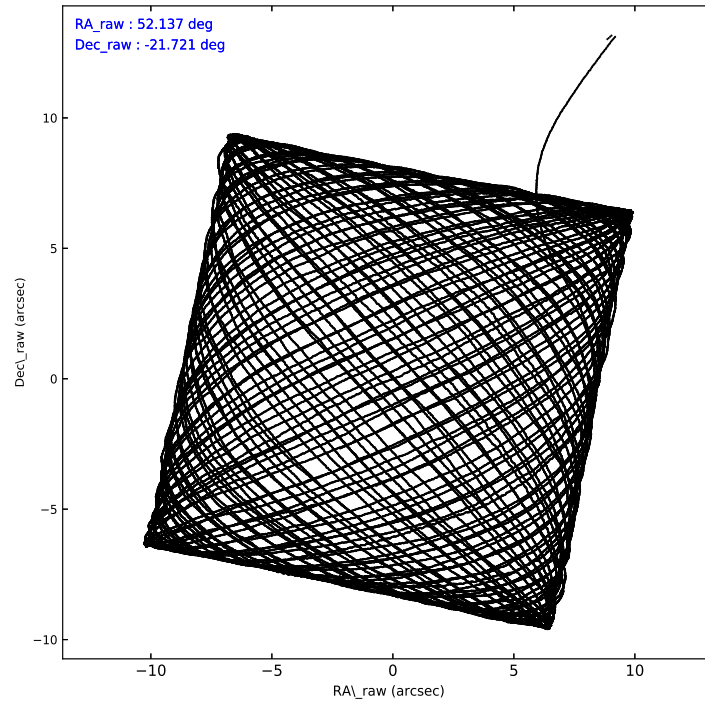
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	254102	258646	294066	282979	279109
rejected events	226699	223768	266495	254737	251053
rejected %	89%	86%	90%	90%	89%

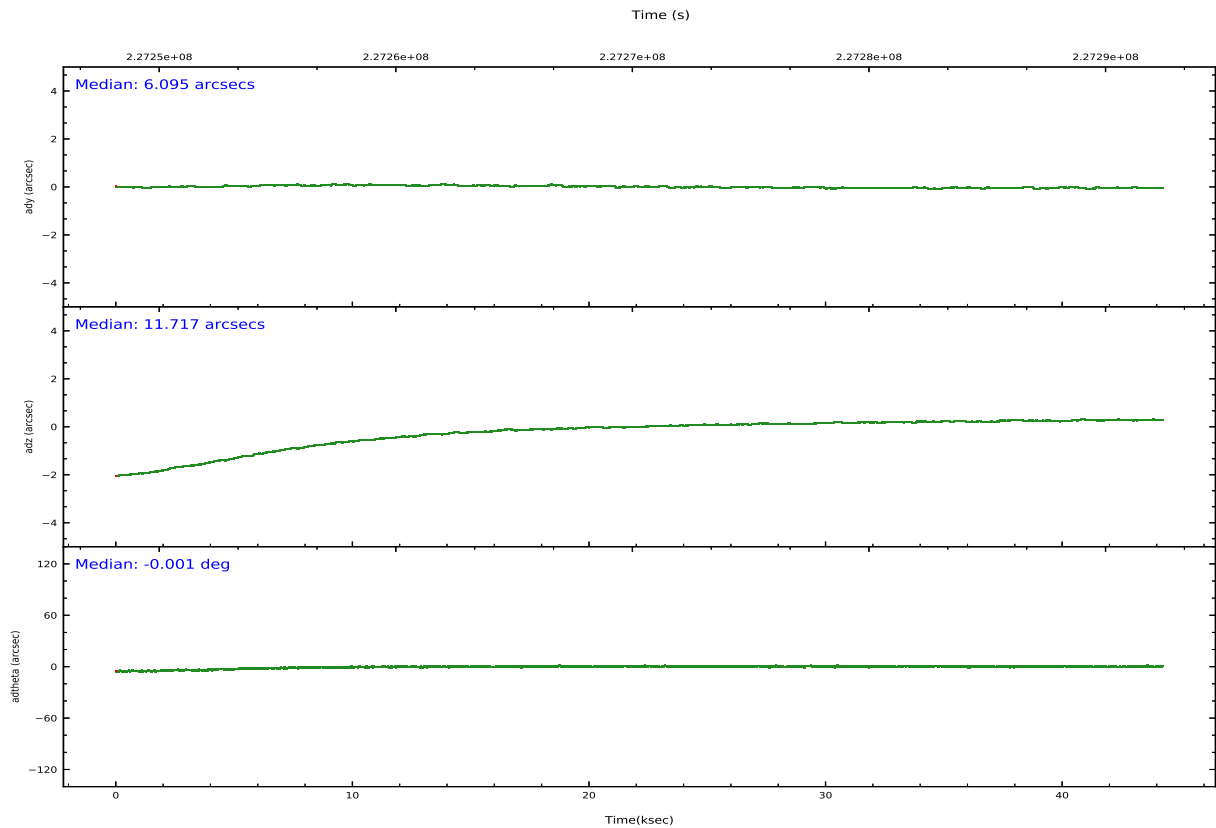
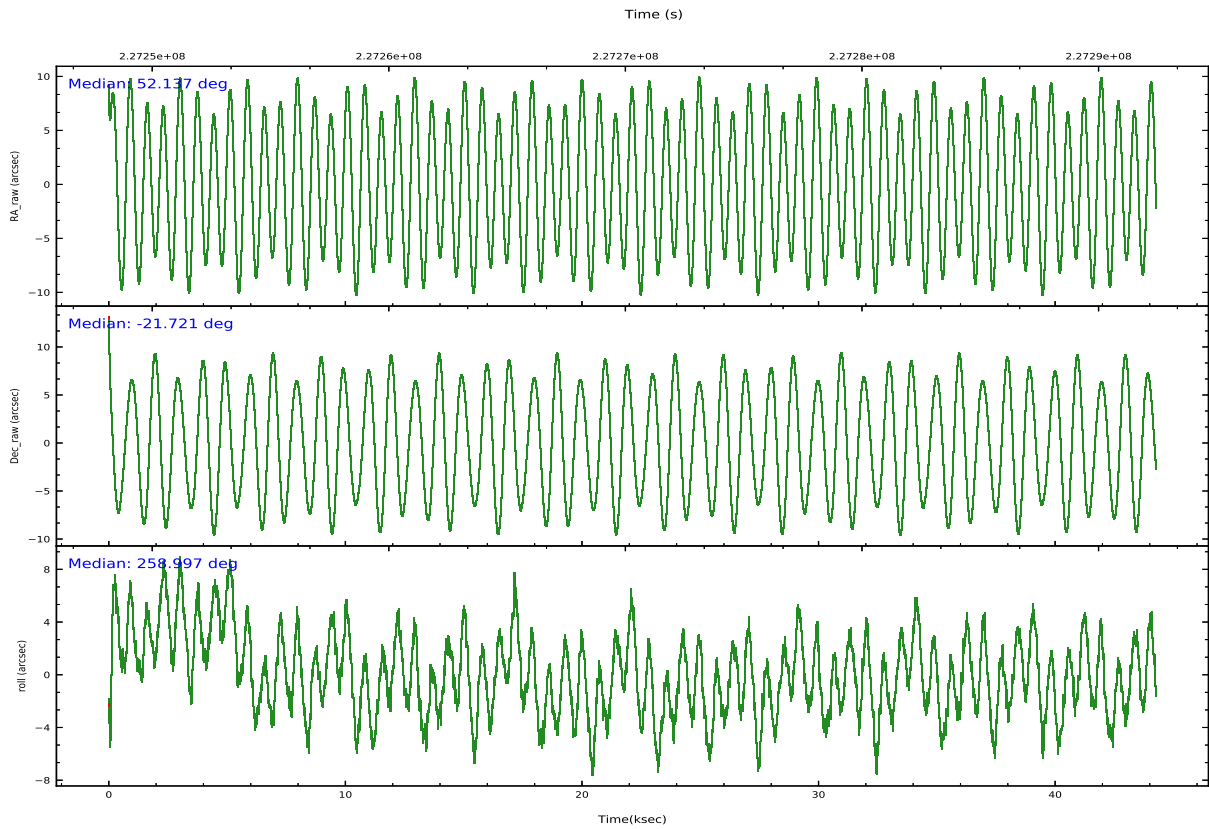
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	9376	14516	10277	11045	9670
	3%	5%	3%	3%	3%
grade 1 events	139	131	140	180	122
	0%	0%	0%	0%	0%
grade 2 events	6560	7095	6348	5814	6070
	2%	2%	2%	2%	2%
grade 3 events	3178	3535	2956	3028	3200
	1%	1%	1%	1%	1%
grade 4 events	3058	3465	2969	3106	3083
	1%	1%	1%	1%	1%
grade 5 events	9609	10540	9151	11062	10985
	3%	4%	3%	3%	3%
grade 6 events	5235	6276	5023	5254	6037
	2%	2%	1%	1%	2%
grade 7 events	216947	213088	257202	243490	239942
	85%	82%	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	52.127464	52.13407243447	Subarray requested	NONE	NONE
[deg] Pointing Dec	-21.694819	-21.7182546552	Alternating exposures requested	N	N
[deg] Pointing Roll	258.791511	258.99700275322	[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	-225.8458576473255			
[mm] SIM translation stage offset	-7.752	-7.746595355604228			
[s] Observation start time (MET)	227248333.184000	227247122.87281			
Observation start date	2005-03-15T04:31:09	2005-03-15T04:12:02			
[s] Observation end time (MET)	227292433.184000	227292900.39989			
Observation end date	2005-03-15T16:46:09	2005-03-15T16:55:00			
Read mode	TIMED	TIMED			

2.3 Aspect





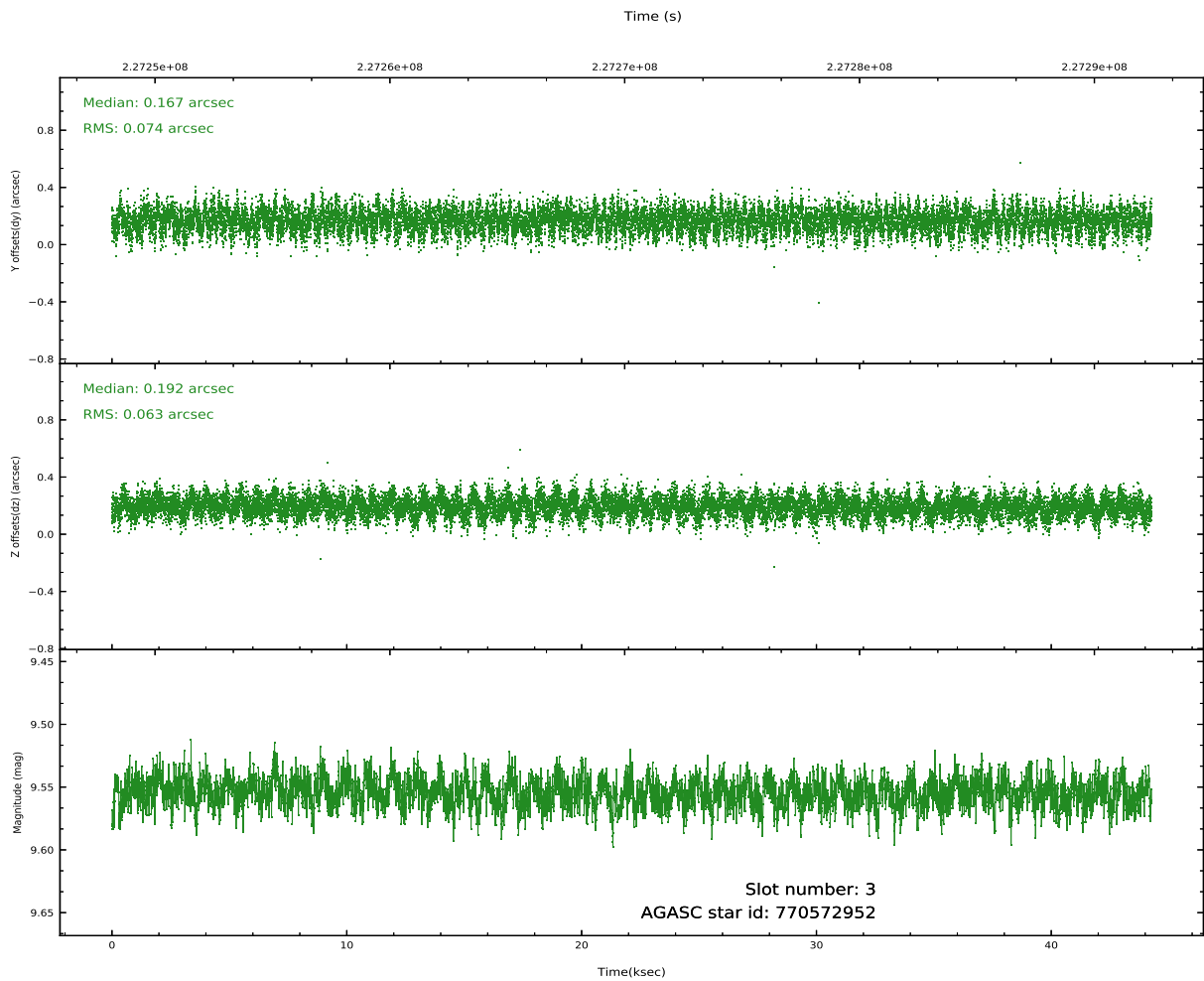
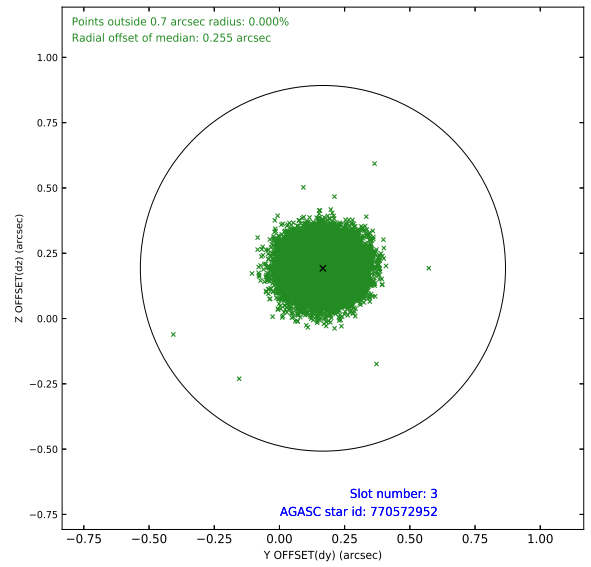
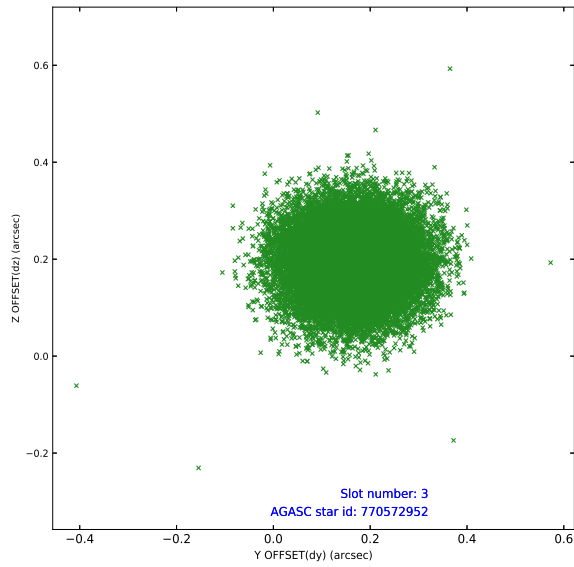
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.23	10797	1.000	0.141	-0.128	0.010	0.037	0.000000	0.000000	933.58	-994
1	FID		ACIS-I-5	7.22	10797	1.000	-0.277	0.113	0.009	0.037	0.000000	0.000000	-1814.92	903
2	FID		ACIS-I-6	7.25	10798	1.000	0.045	0.087	0.012	0.041	0.000000	0.000000	399.07	1548
3	GUIDE	used	770572952	9.55	21578	1.000	0.167	0.192	0.104	0.167	52.678188	-22.321624	1860.54	2238
4	GUIDE	used	770573616	9.47	21566	1.000	-0.024	-0.120	0.111	0.176	51.694921	-21.667566	187.59	-1437
5	GUIDE	used	770575272	8.84	21581	1.000	0.065	-0.018	0.087	0.144	51.531858	-22.160854	2036.04	-1620
6	GUIDE	used	770575376	8.46	21591	1.000	-0.007	-0.045	0.067	0.108	51.490218	-22.063612	1719.92	-1825
7	GUIDE	used	770581640	7.84	21591	1.000	-0.199	-0.005	0.061	0.097	52.322400	-21.371182	-1269.26	414

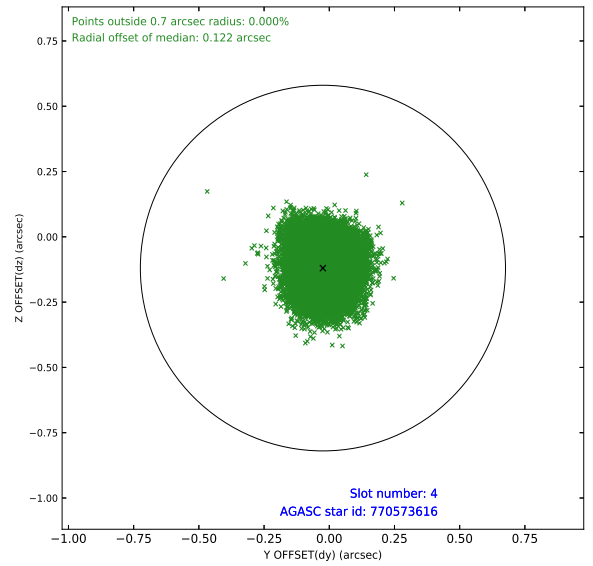
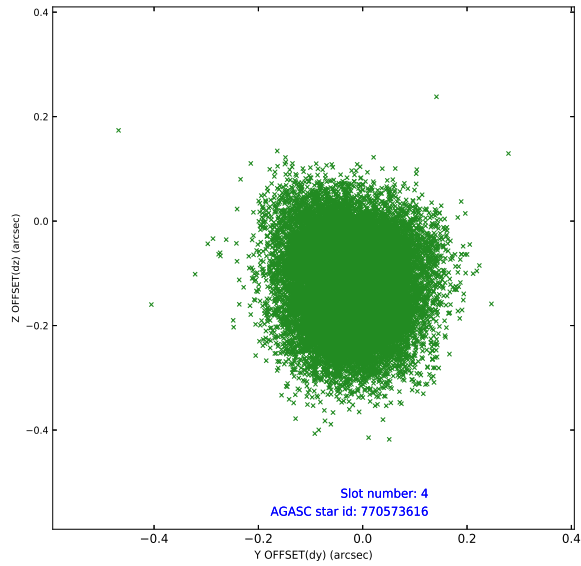
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2.4 Star Slots

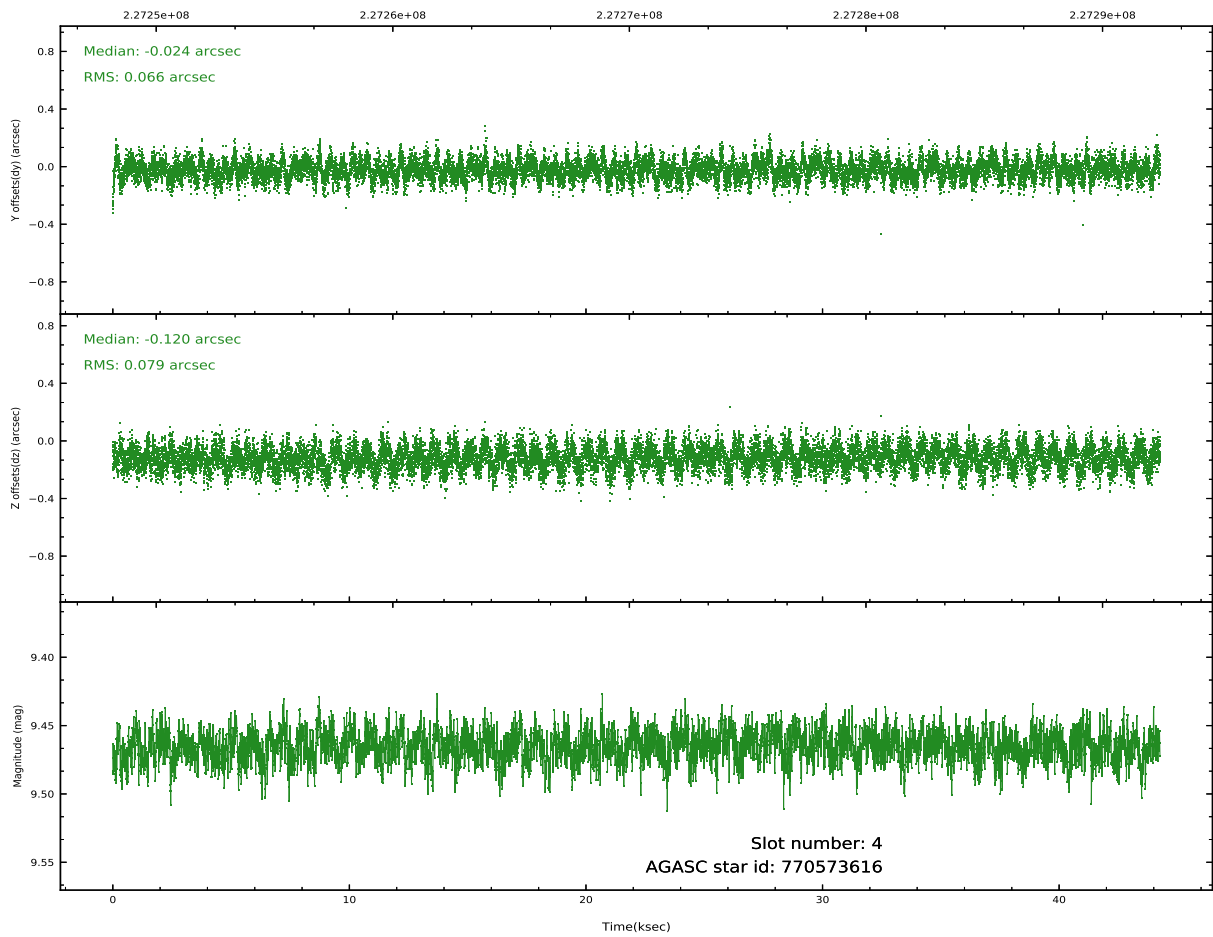
2.4.1 Slot 3



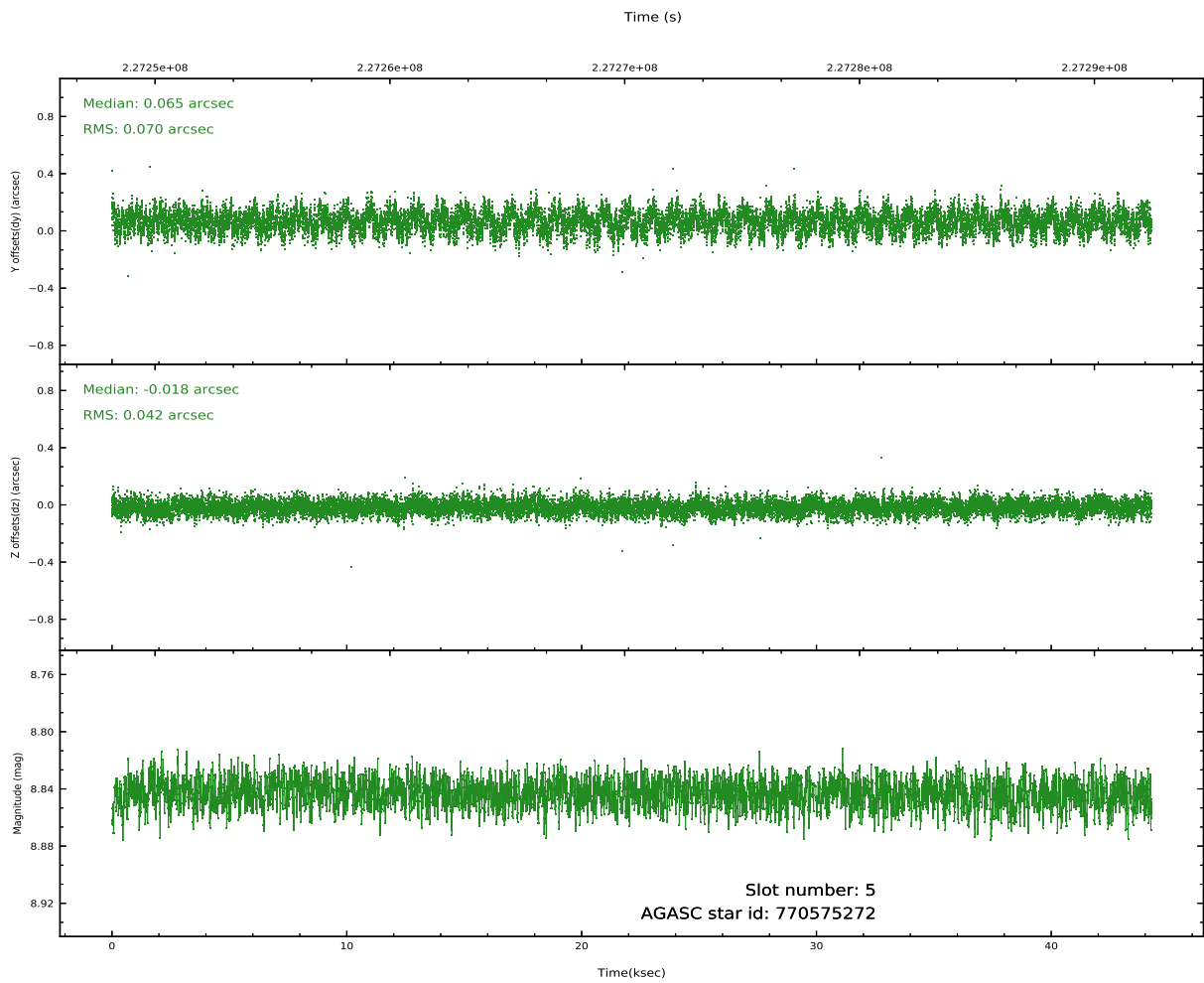
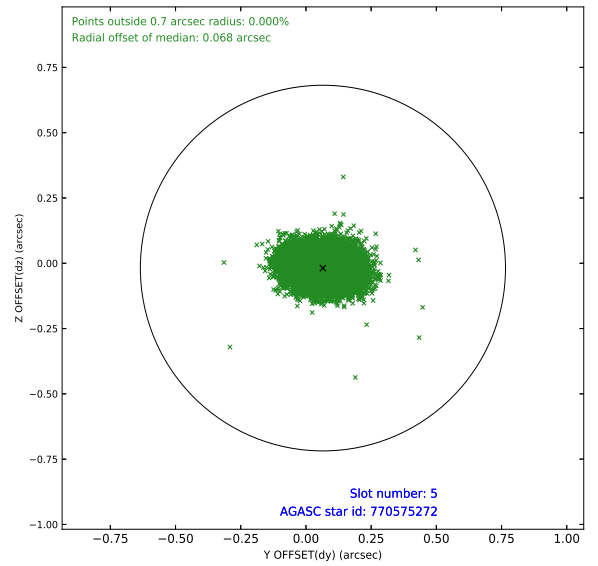
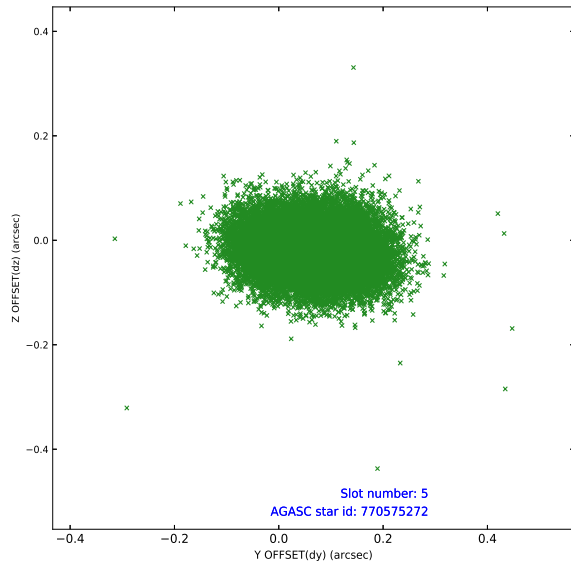
2.4.2 Slot 4



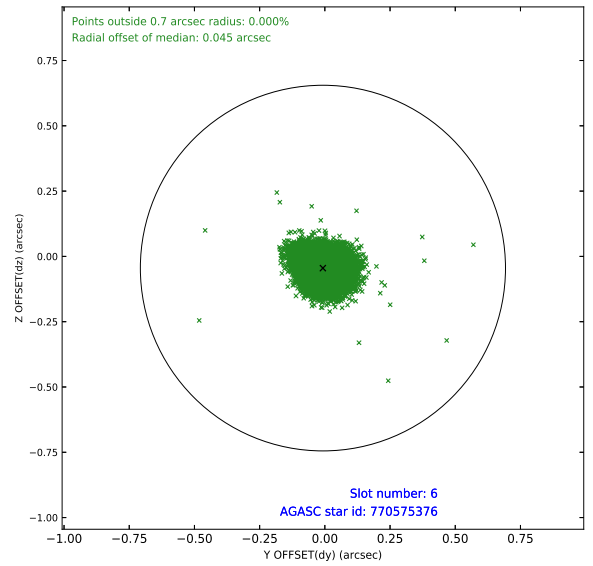
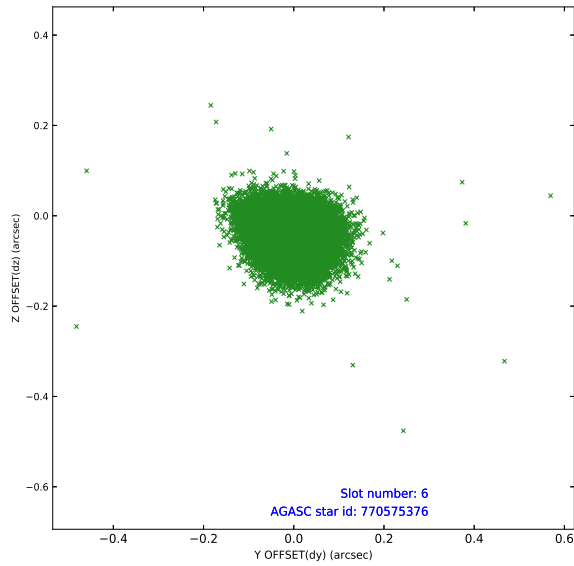
Time (s)



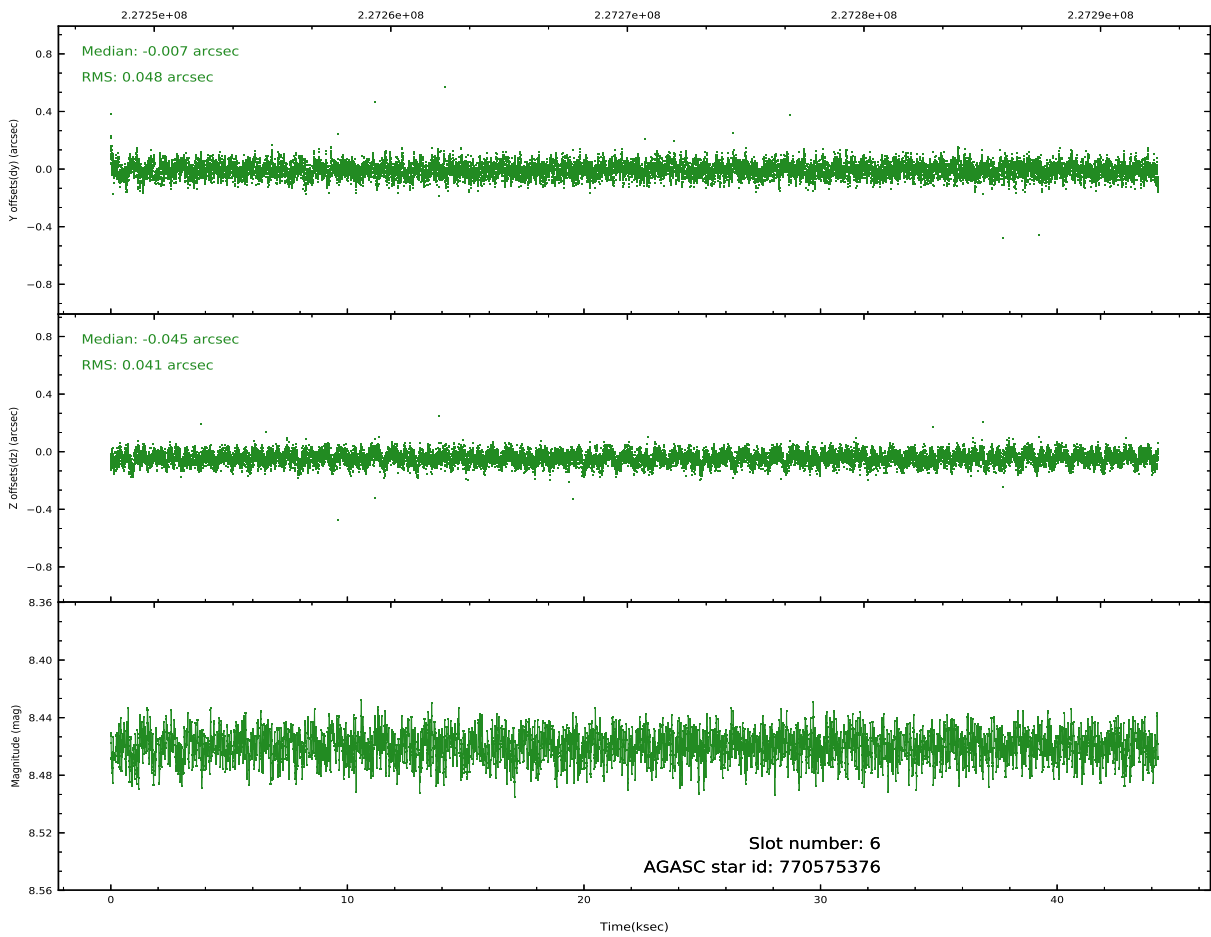
2.4.3 Slot 5



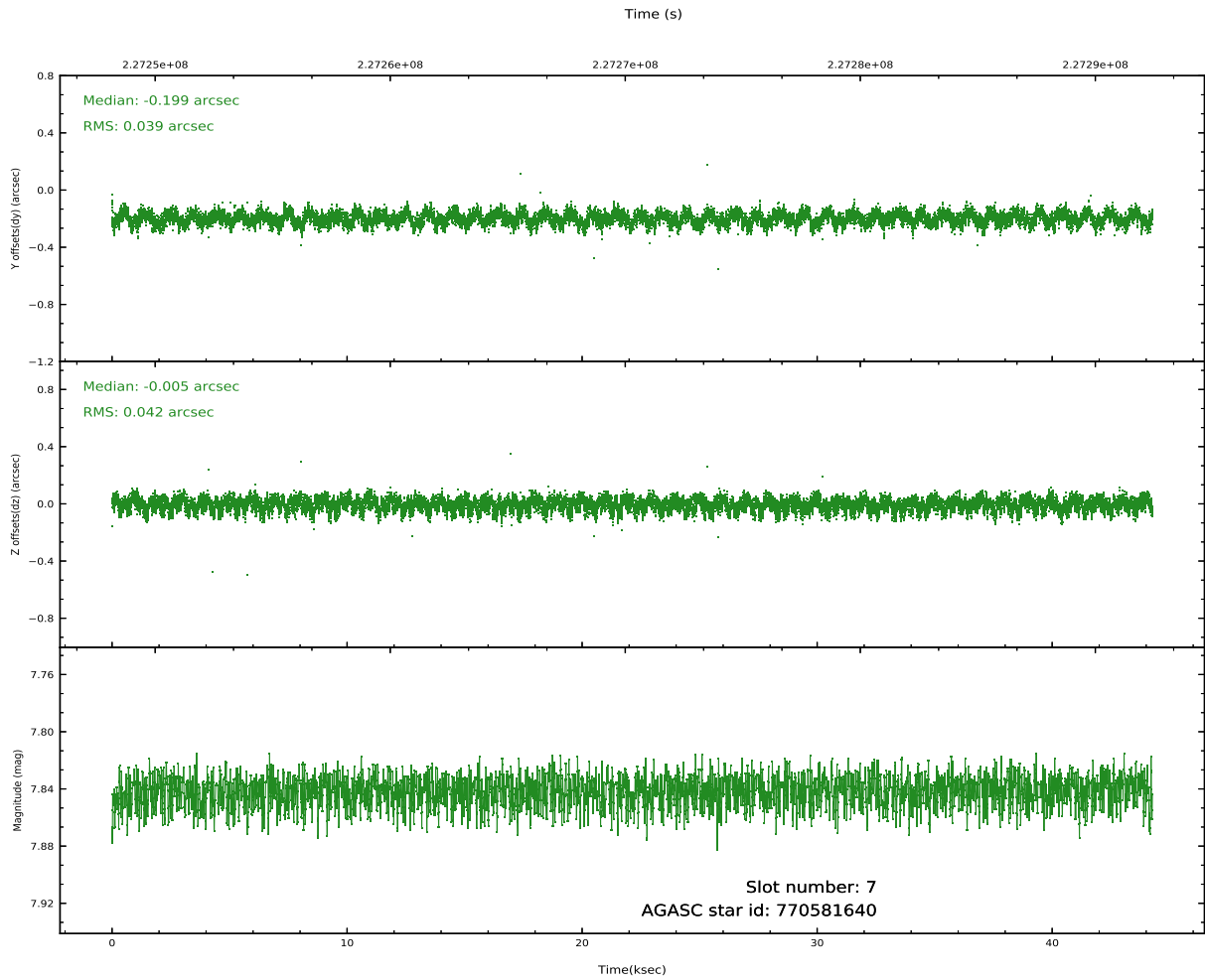
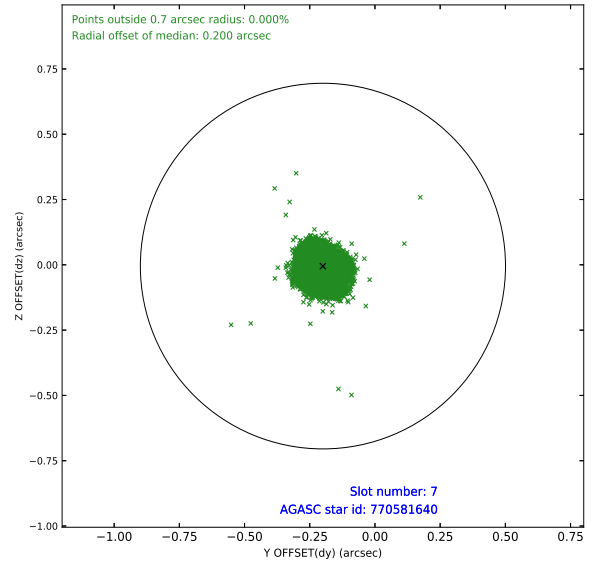
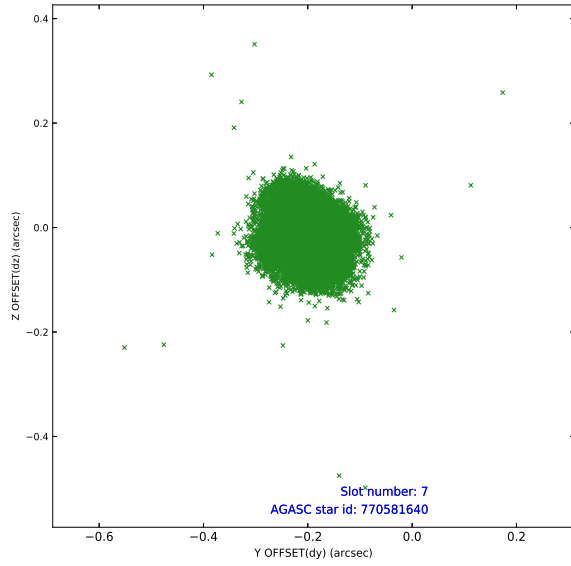
2.4.4 Slot 6



Time (s)

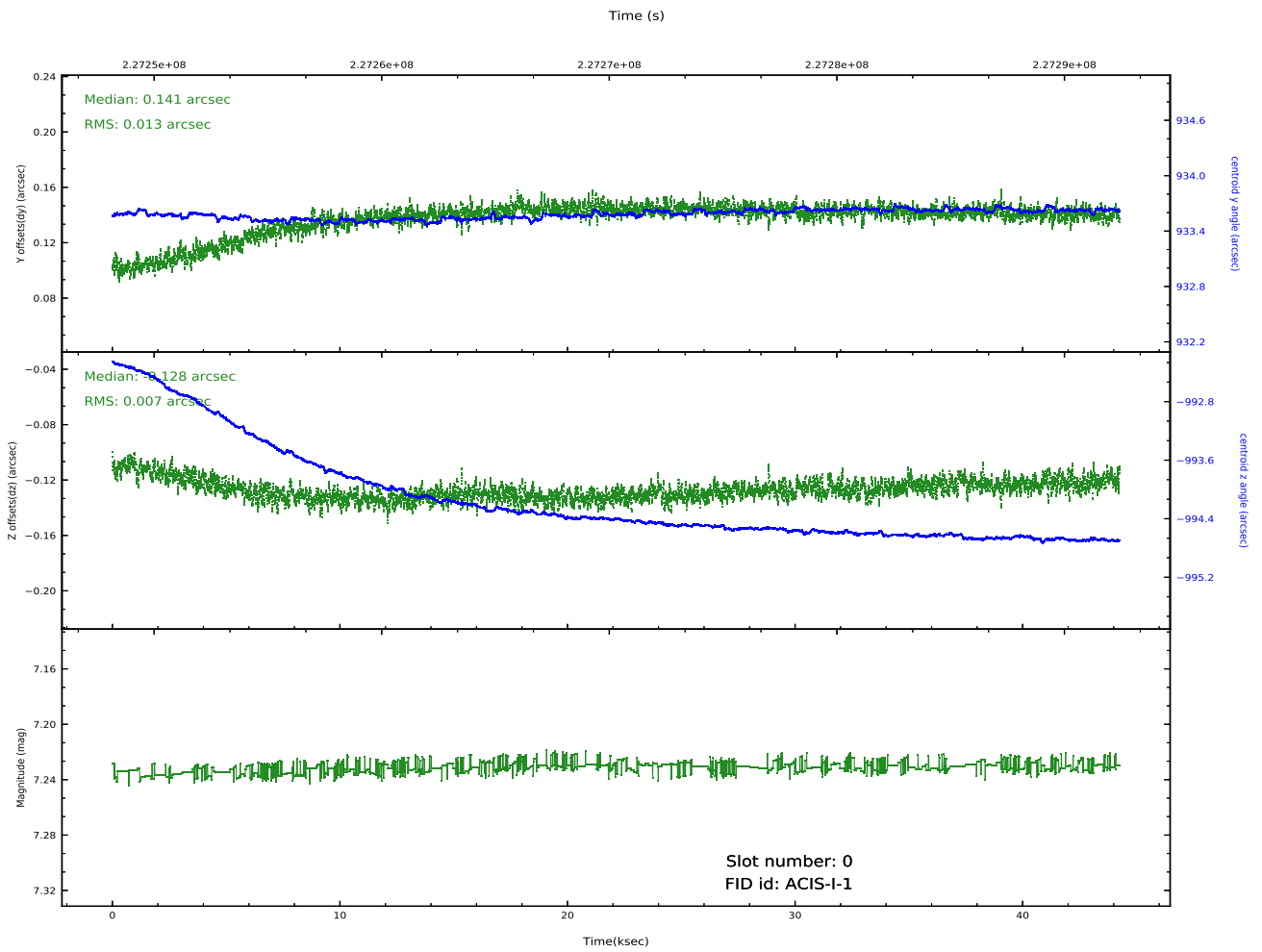
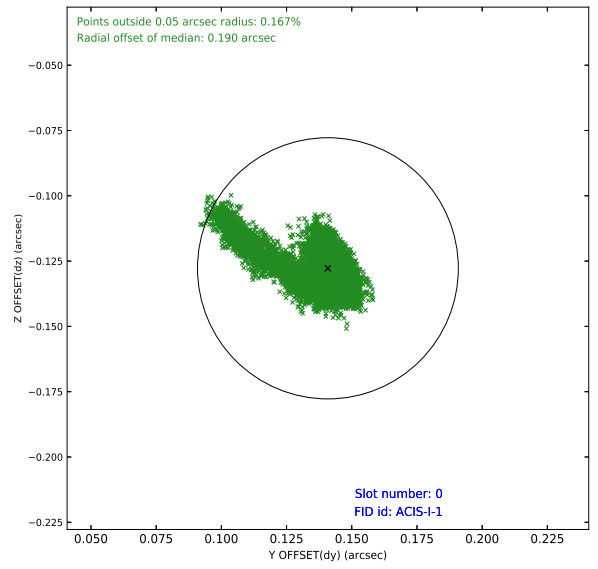
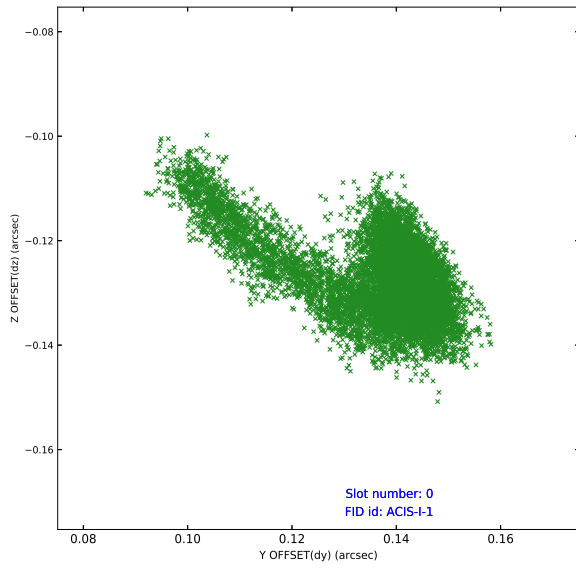


2.4.5 Slot 7

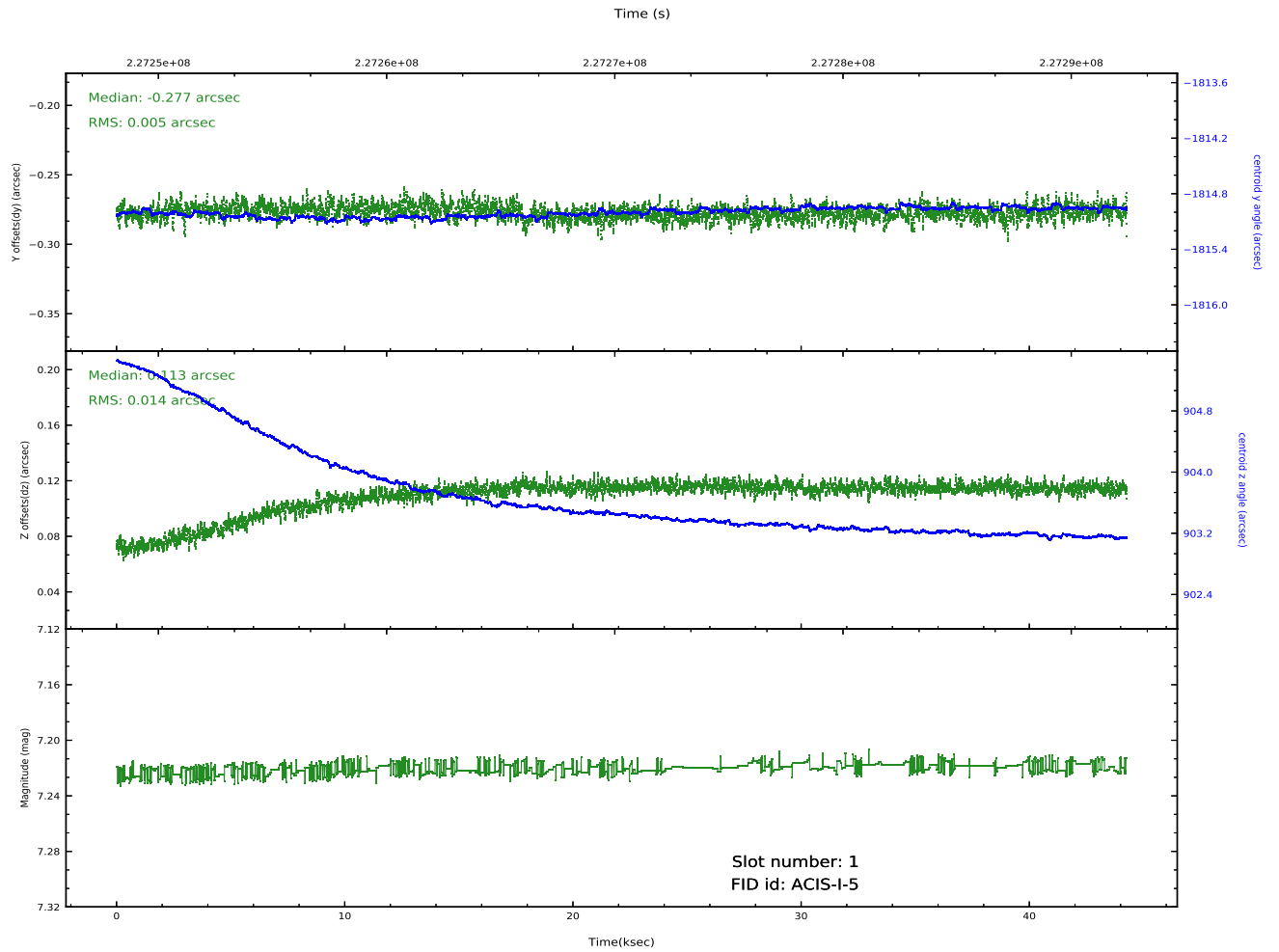
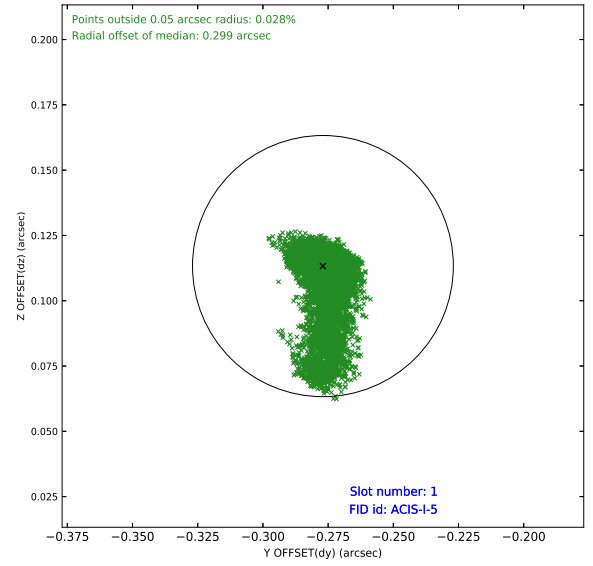
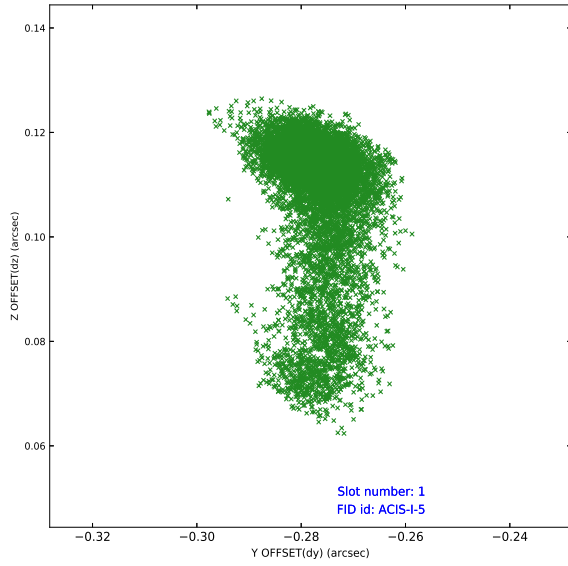


2.5 FID Slots

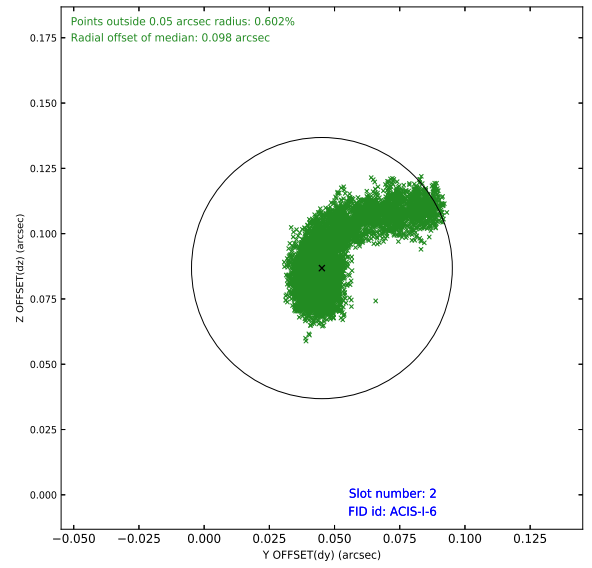
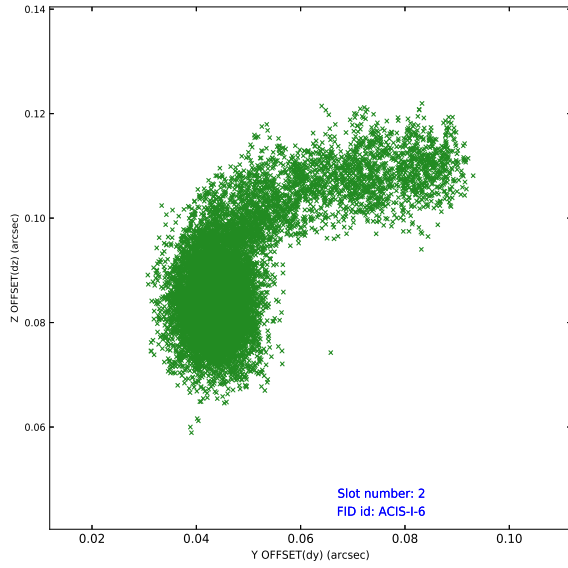
2.5.1 Slot 0



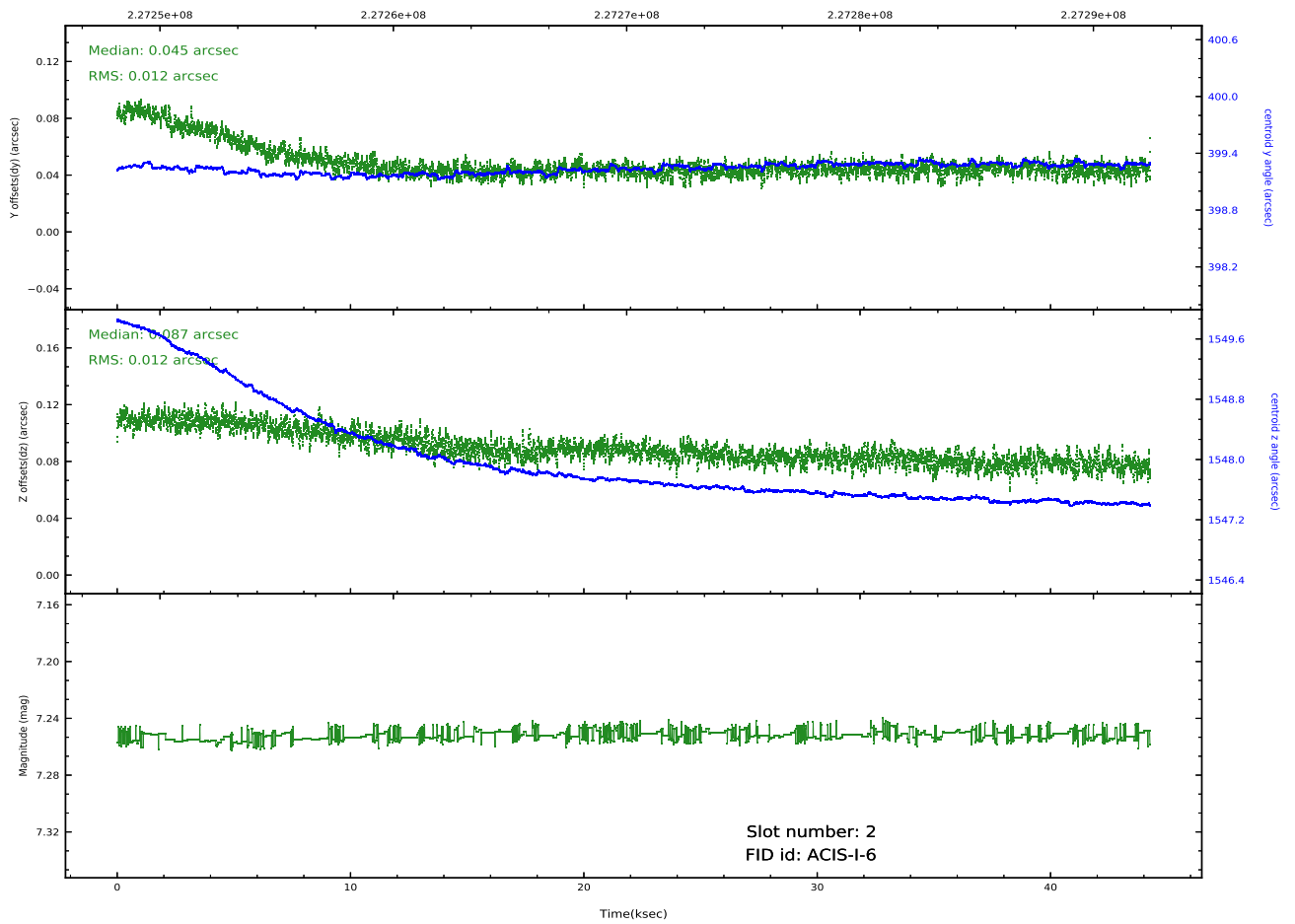
2.5.2 Slot 1



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	43.86491

A.2 Comments