

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6928 - L2 Version 3
Chandra X-Ray Center

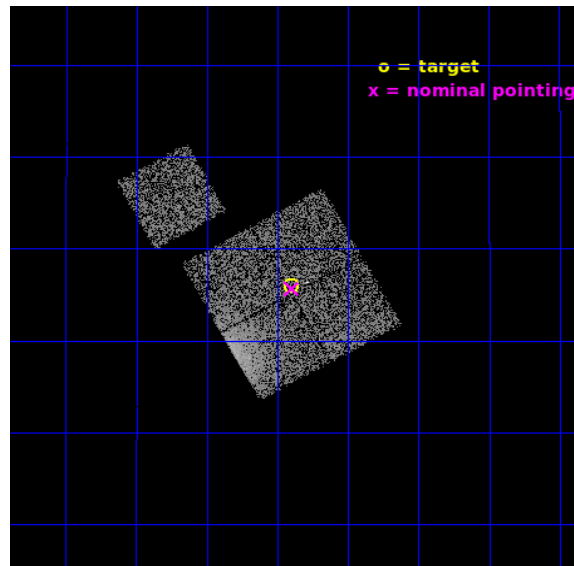
L2 Processing Date : Oct 11 2020

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

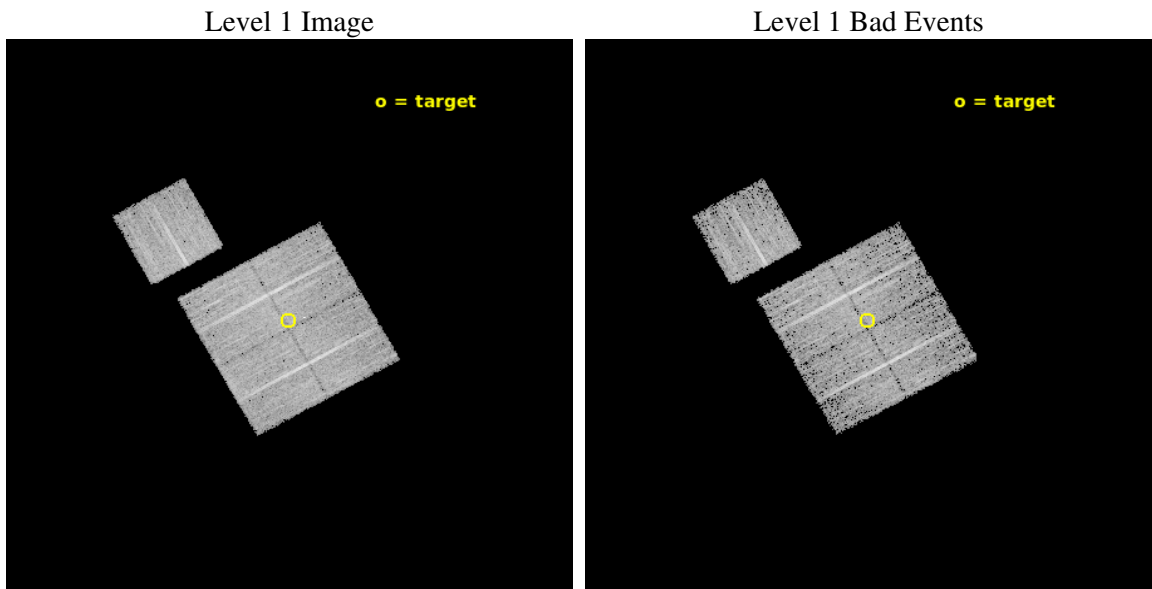
seq_num	800561	Sequence number
obs_id	6928	Observation id
title	Temperature profiles of relaxed galaxy clusters	Proposal title
observer	Dr. Stephen Murray	Principal investigator
object	A478	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	63.225	Observer's specified target RA [deg]
dec_targ	10.6	Observer's specified target Dec [deg]
ra_nom	63.224339799338	Nominal RA [deg]
dec_nom	10.594505583795	Nominal Dec [deg]
roll_nom	330.80699275505	Nominal Roll [deg]
revision	3	Processing version of data
ontime	6071.9474183321	Sum of GTIs [s]
livetime	5992.6129552089	Livetime [s]
ontime0	6071.8242983222	Sum of GTIs [s]
ontime1	6068.7243679762	Sum of GTIs [s]
ontime2	6068.7654080391	Sum of GTIs [s]
ontime3	6071.9474183321	Sum of GTIs [s]
ontime6	6071.7832583189	Sum of GTIs [s]
l2events	21602	Number of level 2 events



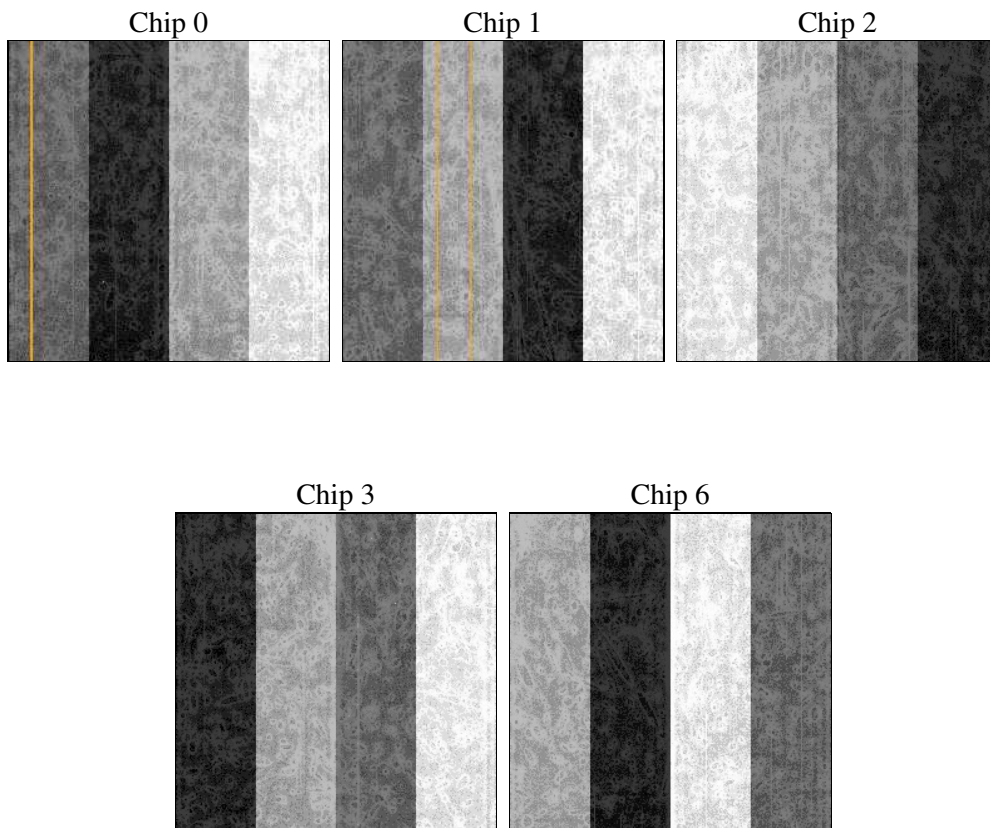
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6300.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	6071.9474183321	Sum of GTIs [s]
caldsver	4.9.2	 	ontime0	6071.8242983222	Sum of GTIs [s]
date	2020-10-12T03:29:40	Date and time of file creation	ontime1	6068.7243679762	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	6068.7654080391	Sum of GTIs [s]
			ontime3	6071.9474183321	Sum of GTIs [s]
			ontime6	6071.7832583189	Sum of GTIs [s]
			l1events	206928	Number of level 1 events

2.1.4 Events

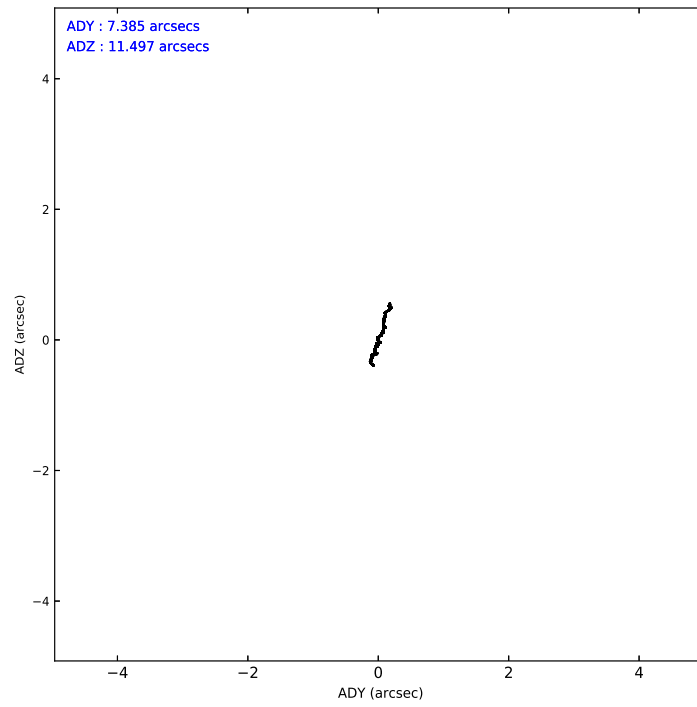
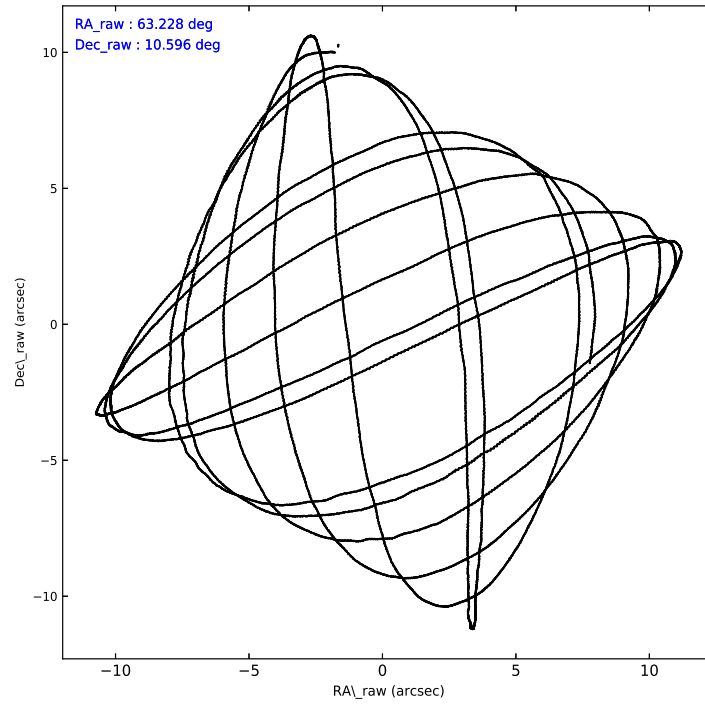
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	41258	38263	45722	40173	41512
rejected events	33316	33681	40832	36182	37358
rejected %	80%	88%	89%	90%	89%

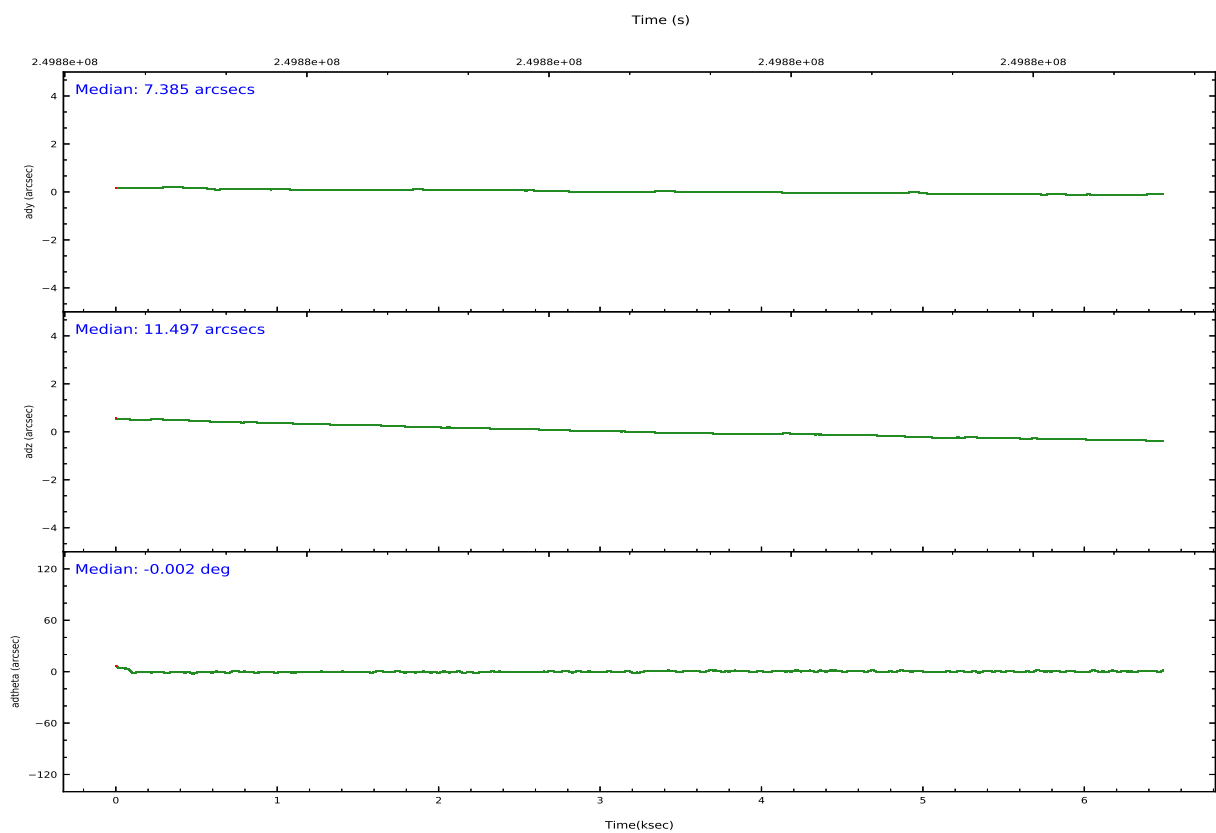
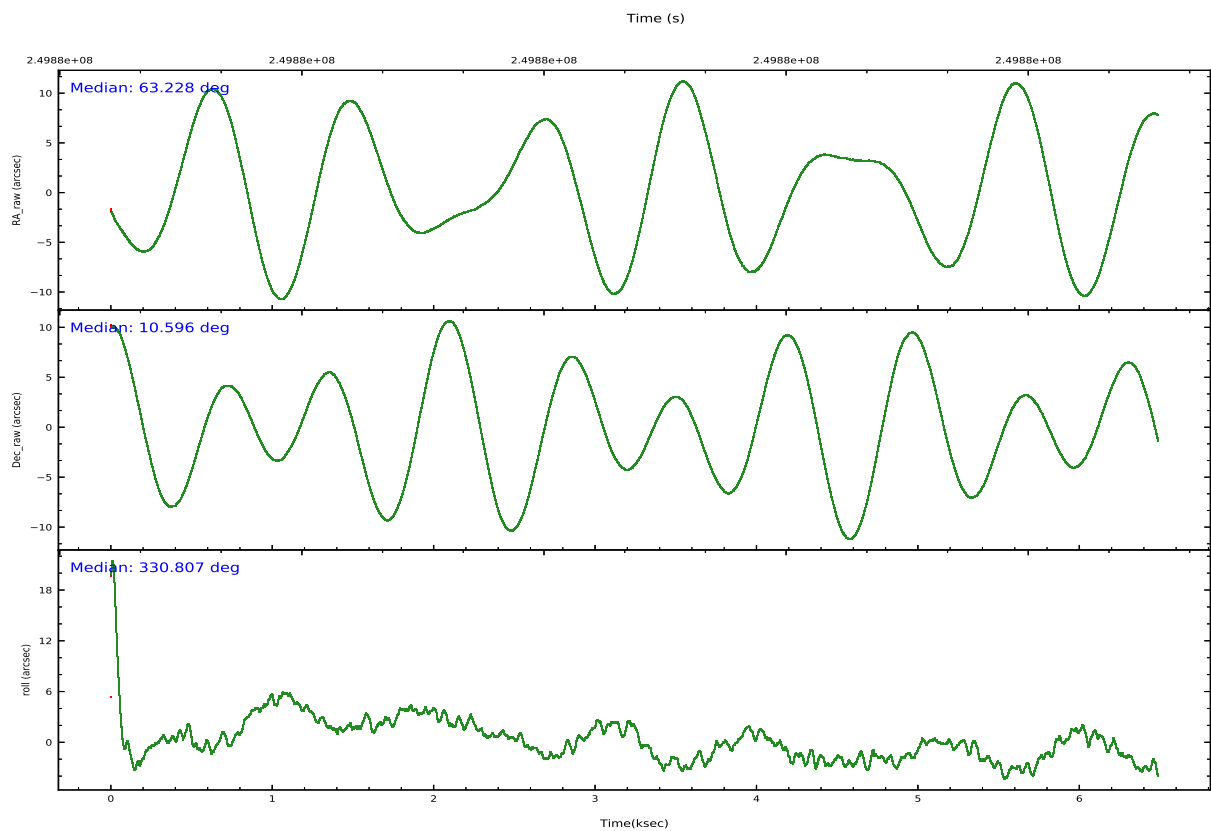
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	4386	1622	2171	1551	1452
	10%	4%	4%	3%	3%
grade 1 events	27	18	22	24	12
	0%	0%	0%	0%	0%
grade 2 events	1380	980	1040	802	903
	3%	2%	2%	1%	2%
grade 3 events	662	529	455	429	460
	1%	1%	0%	1%	1%
grade 4 events	597	471	470	434	469
	1%	1%	1%	1%	1%
grade 5 events	1347	1572	1312	1616	1603
	3%	4%	2%	4%	3%
grade 6 events	928	982	757	778	873
	2%	2%	1%	1%	2%
grade 7 events	31931	32089	39495	34539	35740
	77%	83%	86%	85%	86%

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	63.200047	63.224339799338	Subarray requested	NONE	NONE
[deg] Pointing Dec	10.595840	10.594505583795	Alternating exposures requested	N	N
[deg] Pointing Roll	330.604581	330.80699275505	[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	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	249879005.184000	249878431.52146			
Observation start date	2005-12-02T02:49:01	2005-12-02T02:40:31			
[s] Observation end time (MET)	249885305.184000	249885745.9218			
Observation end date	2005-12-02T04:34:01	2005-12-02T04:42:25			
Read mode	TIMED	TIMED			

2.3 Aspect



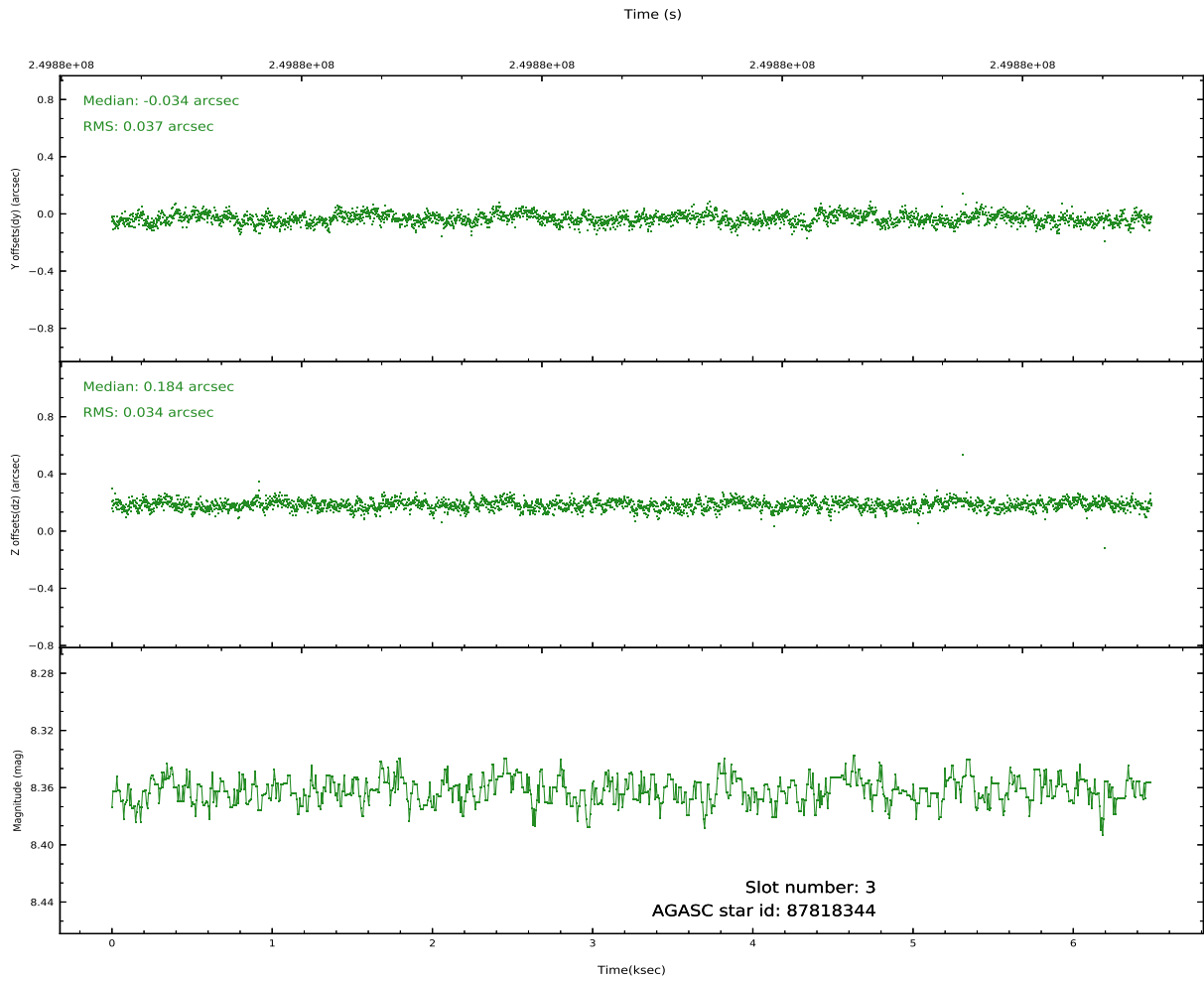
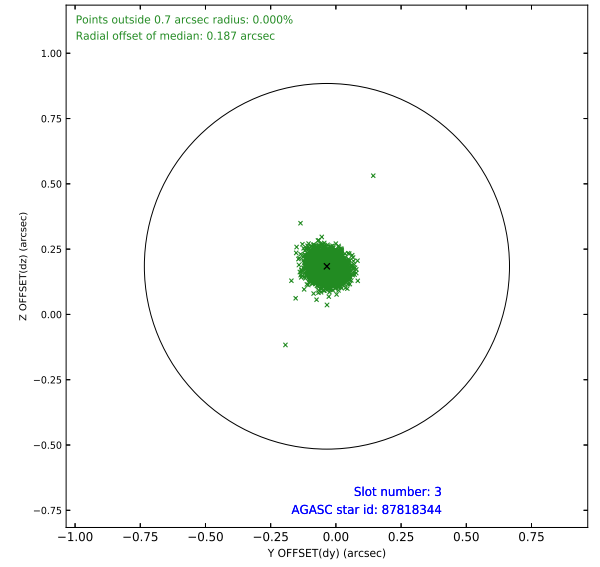
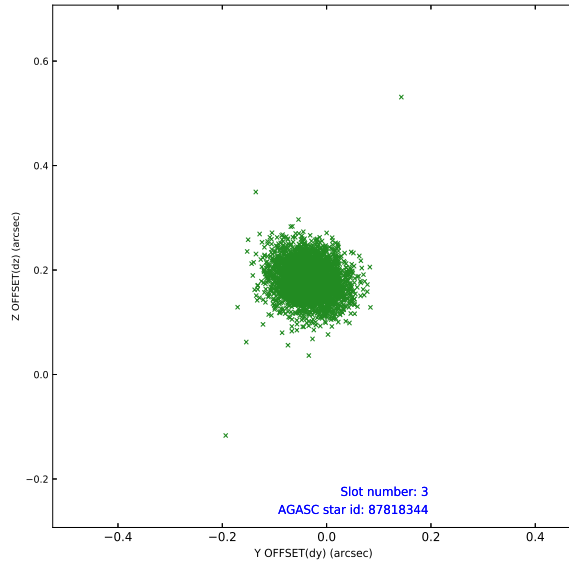


Slot Statistics

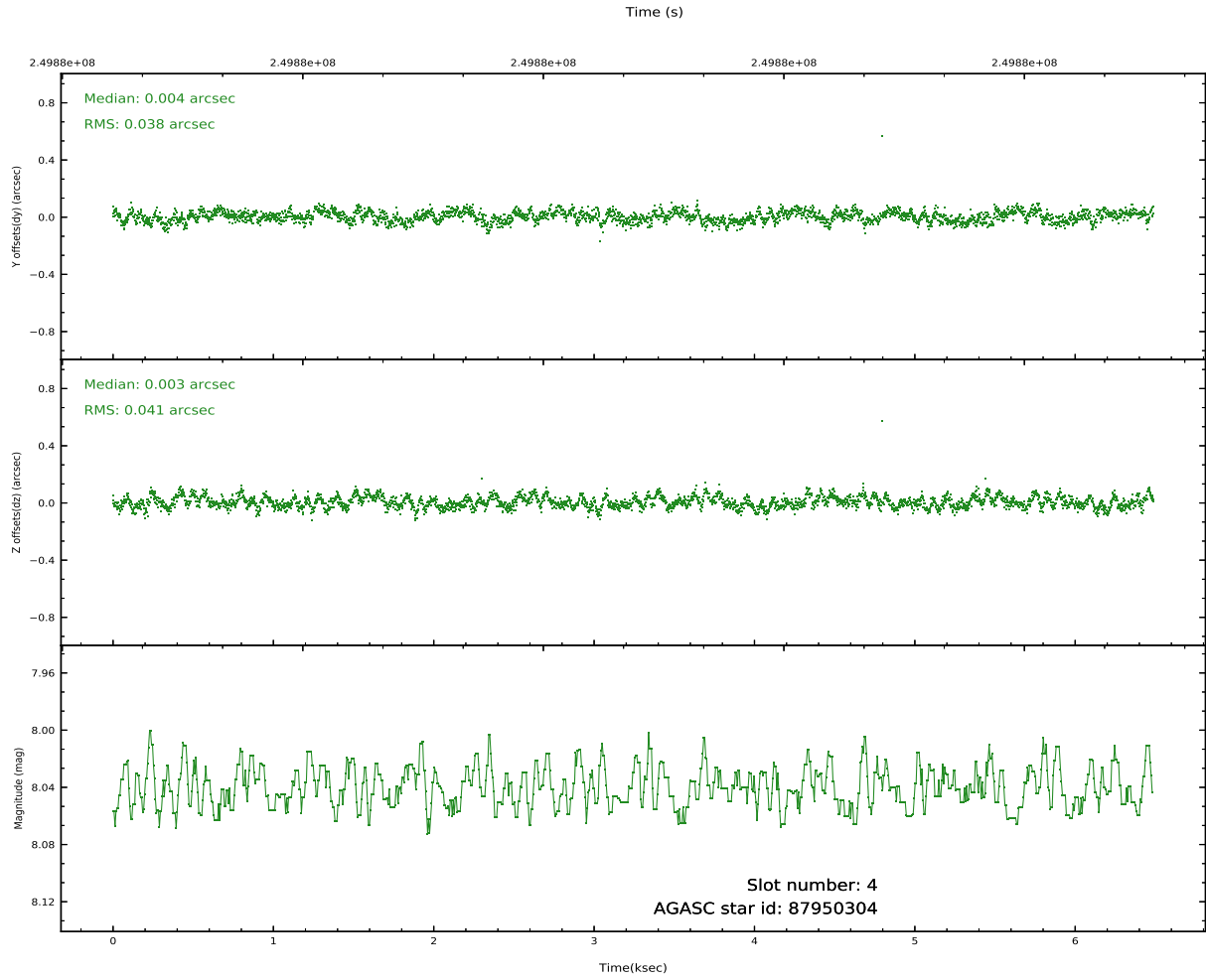
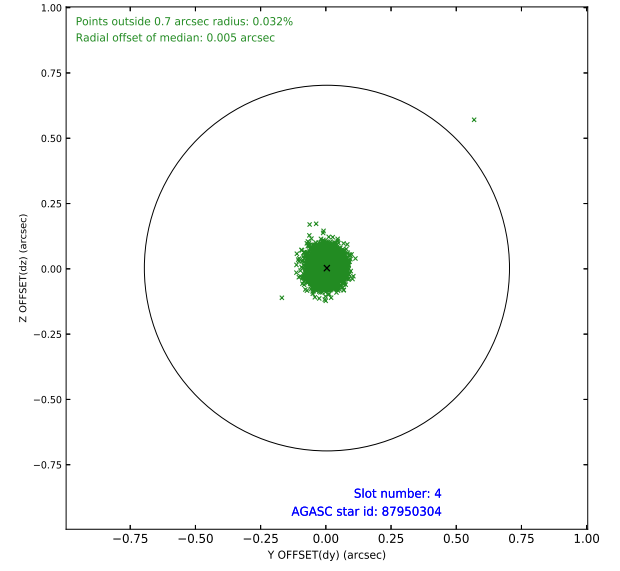
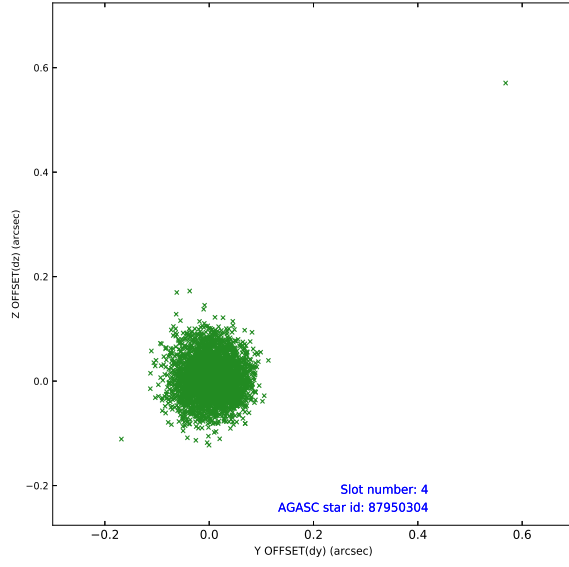
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.24	1583	1.000	-0.022	-0.100	0.012	0.020	0.000000	0.000000	932.25	-835
1	FID		ACIS-I-4	7.18	1583	1.000	0.164	0.103	0.011	0.017	0.000000	0.000000	2152.98	1064
2	FID		ACIS-I-5	7.22	1583	1.000	-0.241	0.067	0.008	0.015	0.000000	0.000000	-1814.81	1063
3	GUIDE	used	87818344	8.36	3159	1.000	-0.034	0.184	0.052	0.086	62.599114	10.854229	-2308.41	-230
4	GUIDE	used	87950304	8.04	3164	1.000	0.004	0.003	0.058	0.091	63.753878	10.748130	1436.14	1440
5	GUIDE	used	87953912	6.67	3166	1.000	0.101	-0.030	0.064	0.106	63.394036	10.212467	1277.19	-864
6	GUIDE	used	87954552	8.33	3166	1.000	-0.060	-0.021	0.070	0.115	63.195345	11.171305	-1030.74	1796
7	GUIDE	used	88343064	8.77	3163	1.000	-0.012	-0.139	0.061	0.100	63.058020	11.314635	-1707.25	2008

2.4 Star Slots

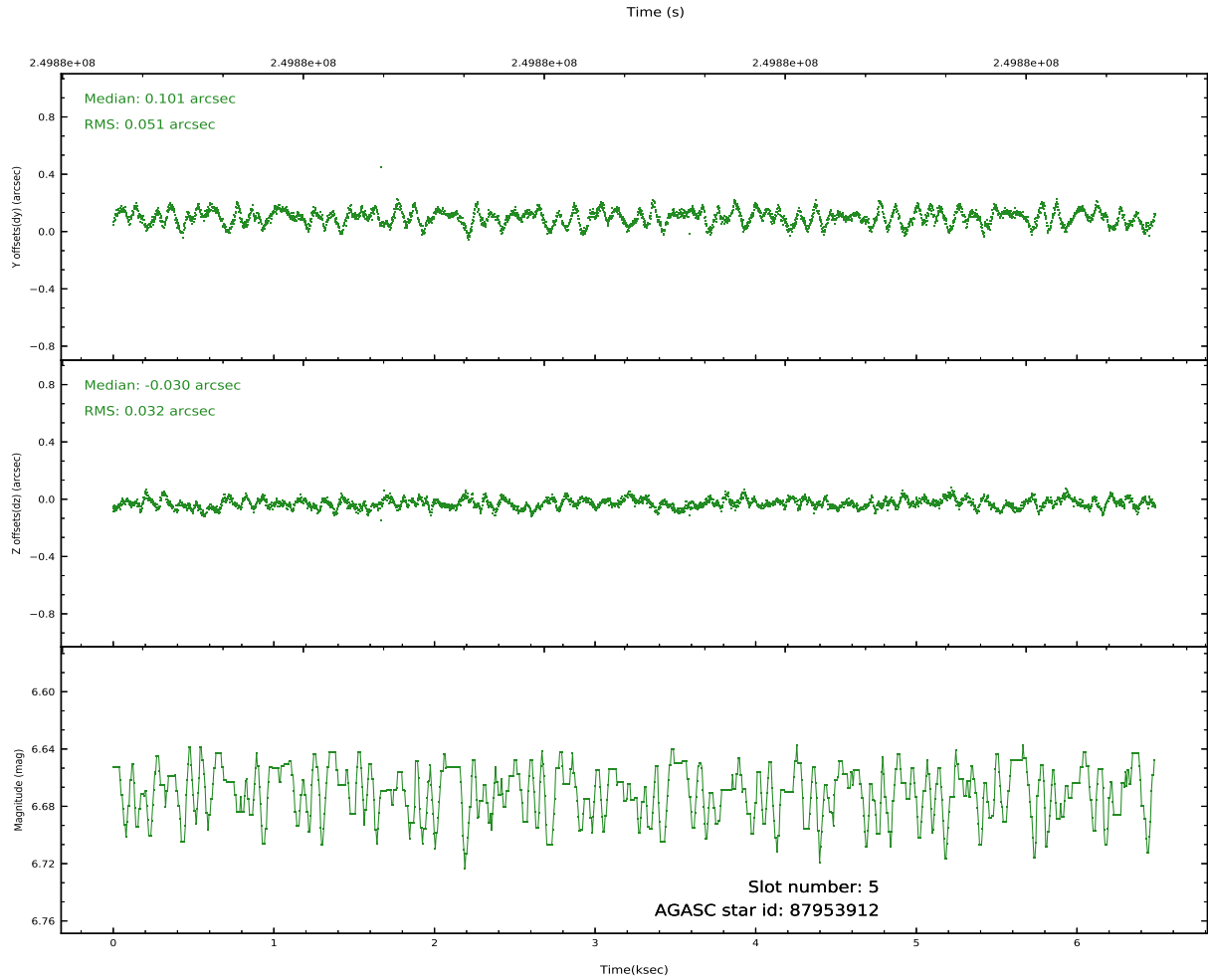
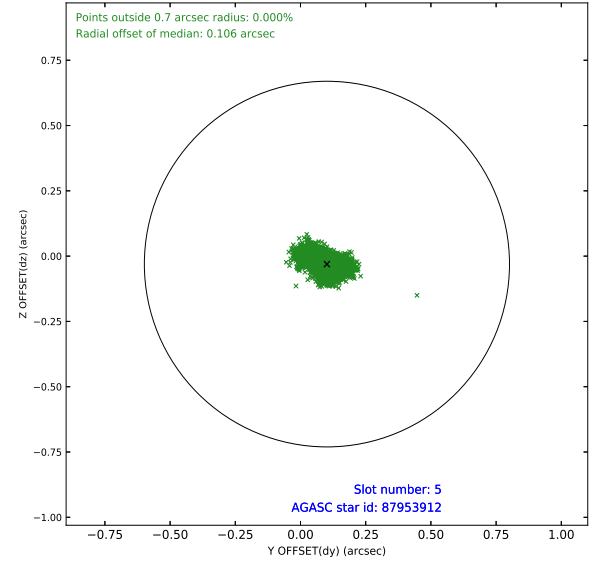
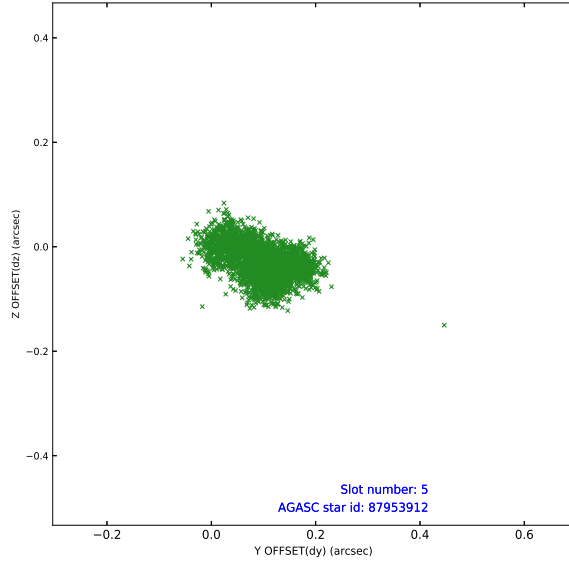
2.4.1 Slot 3



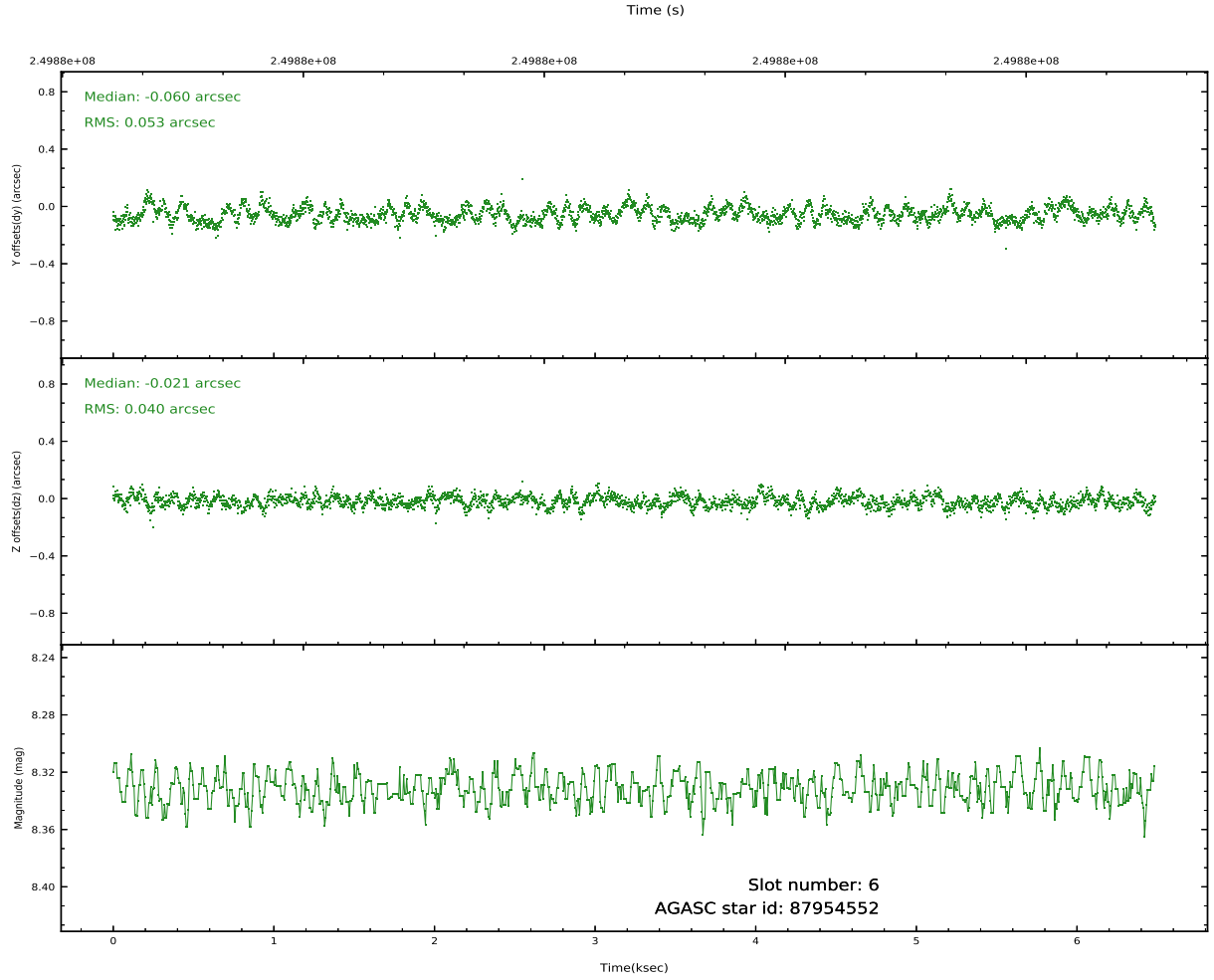
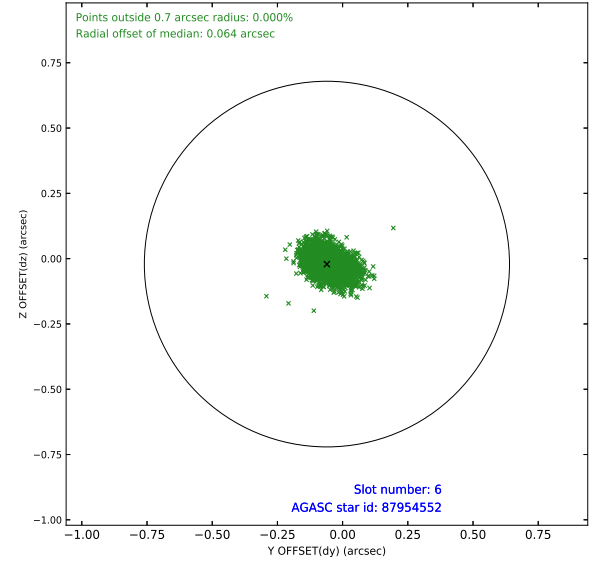
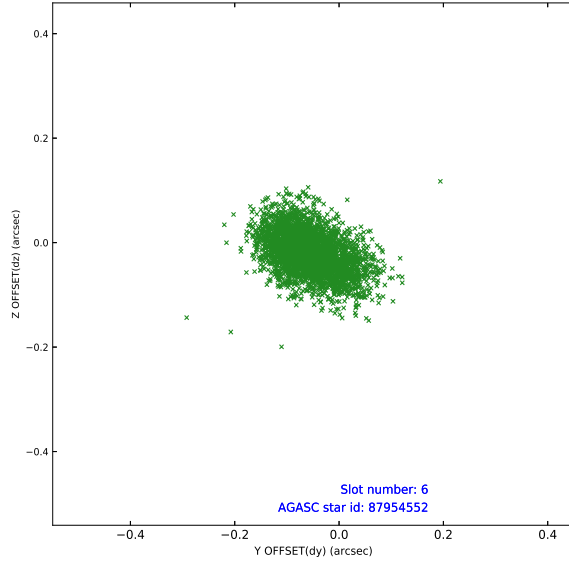
2.4.2 Slot 4



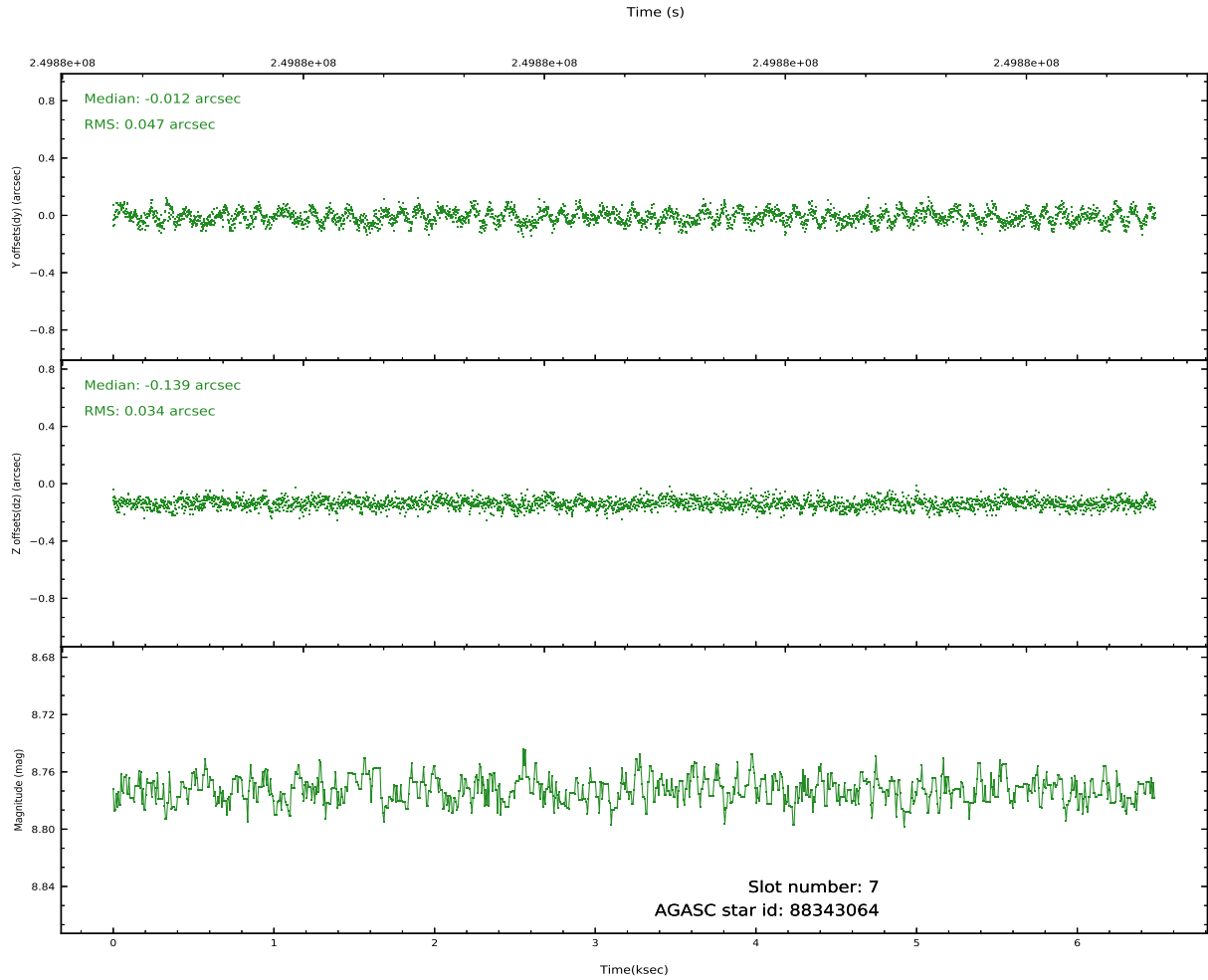
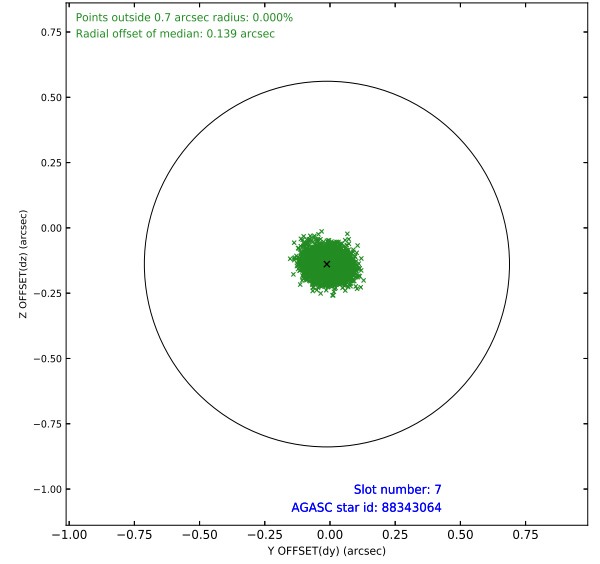
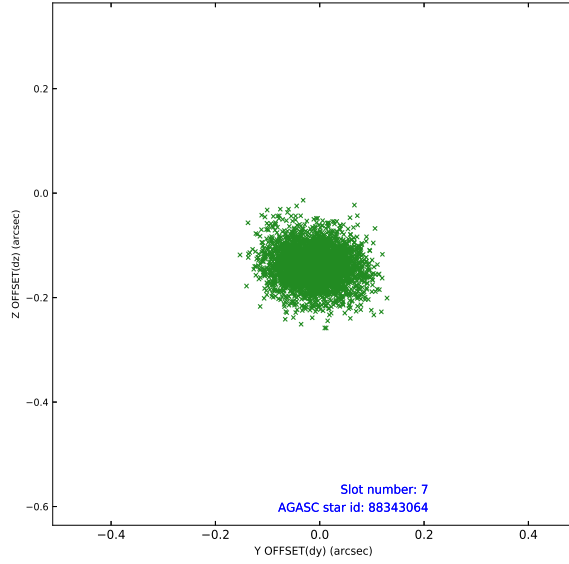
2.4.3 Slot 5



2.4.4 Slot 6

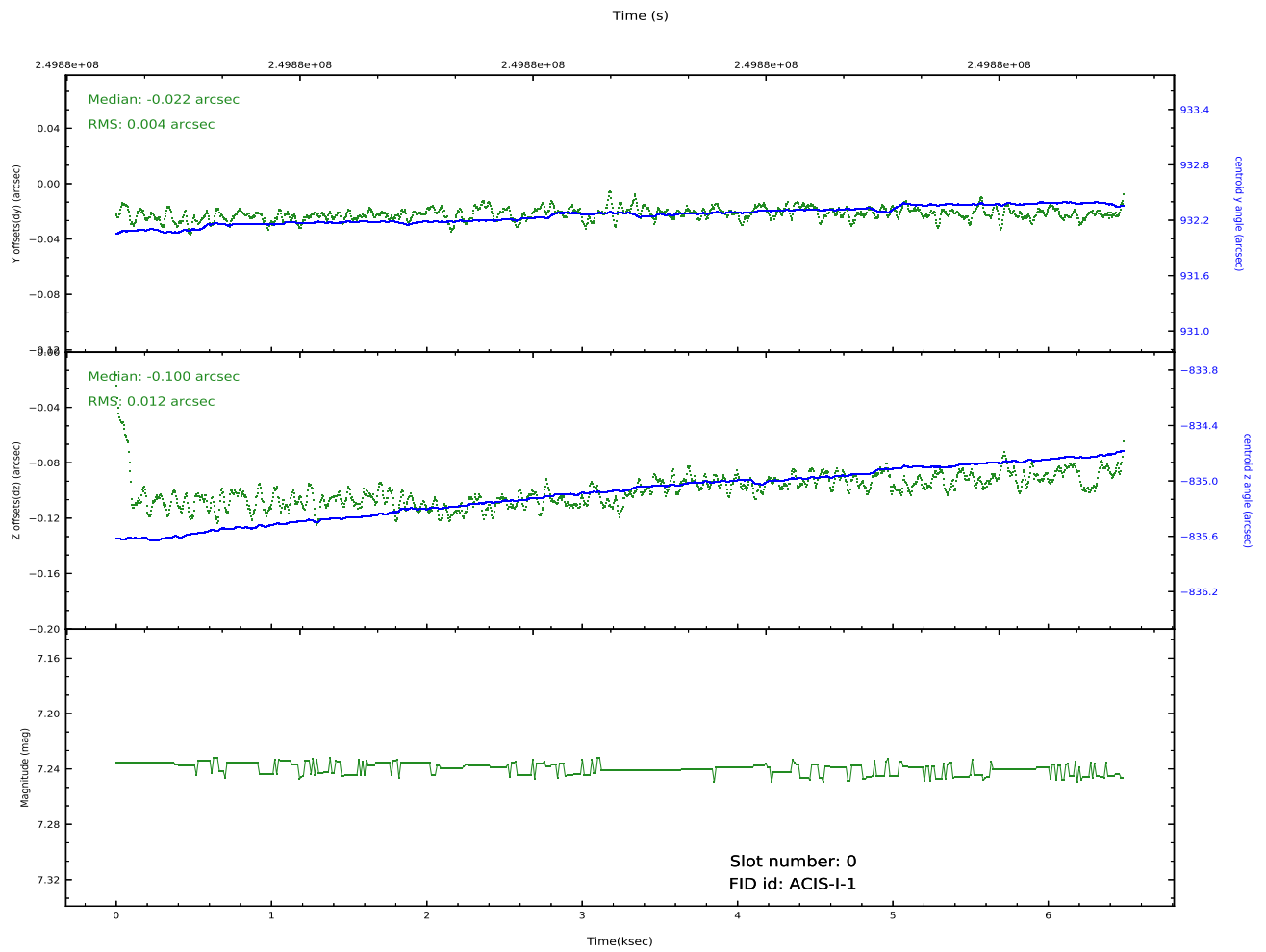
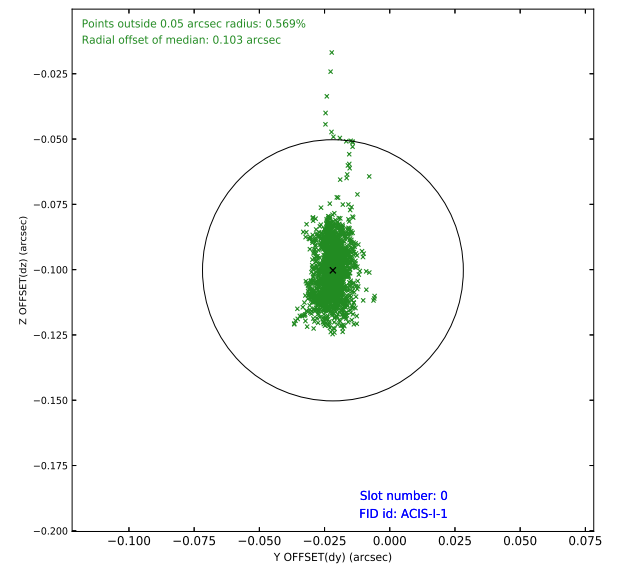
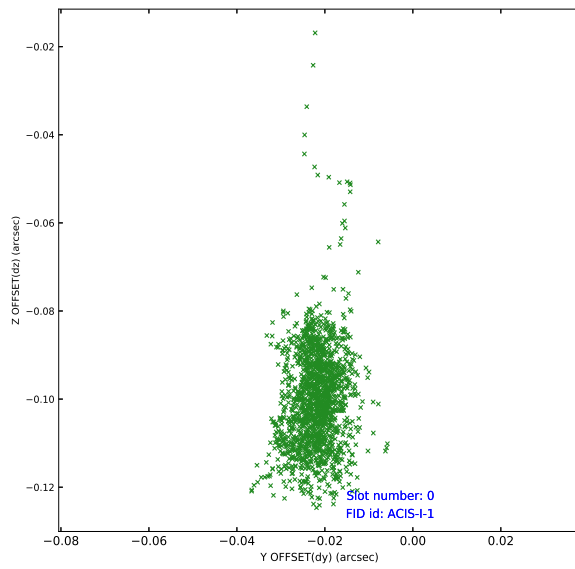


2.4.5 Slot 7

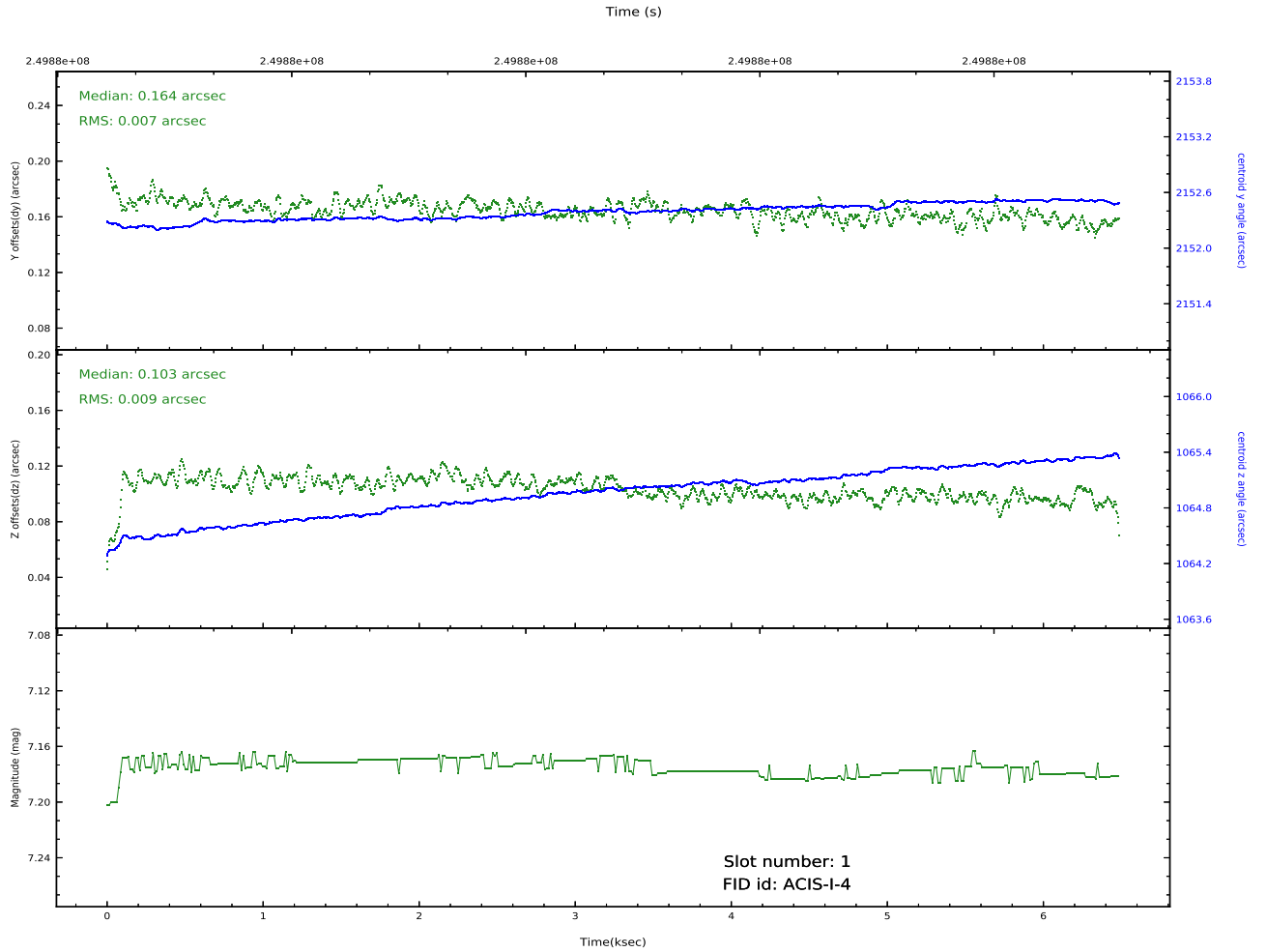
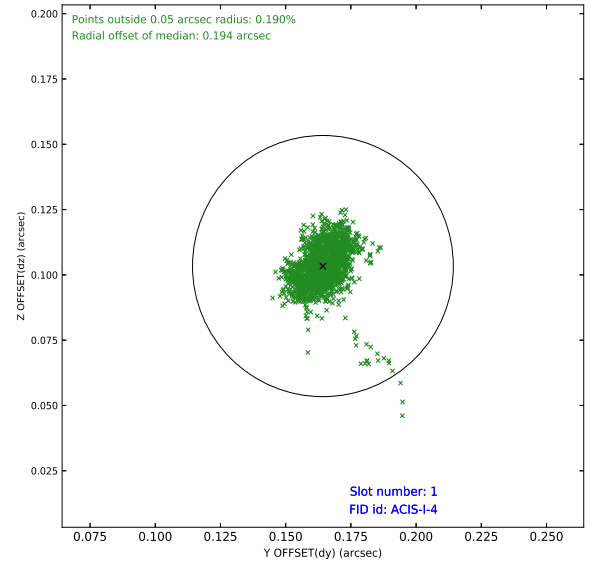
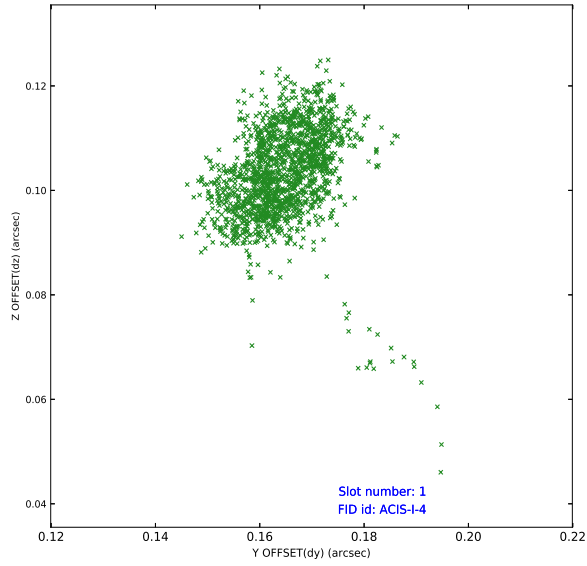


2.5 FID Slots

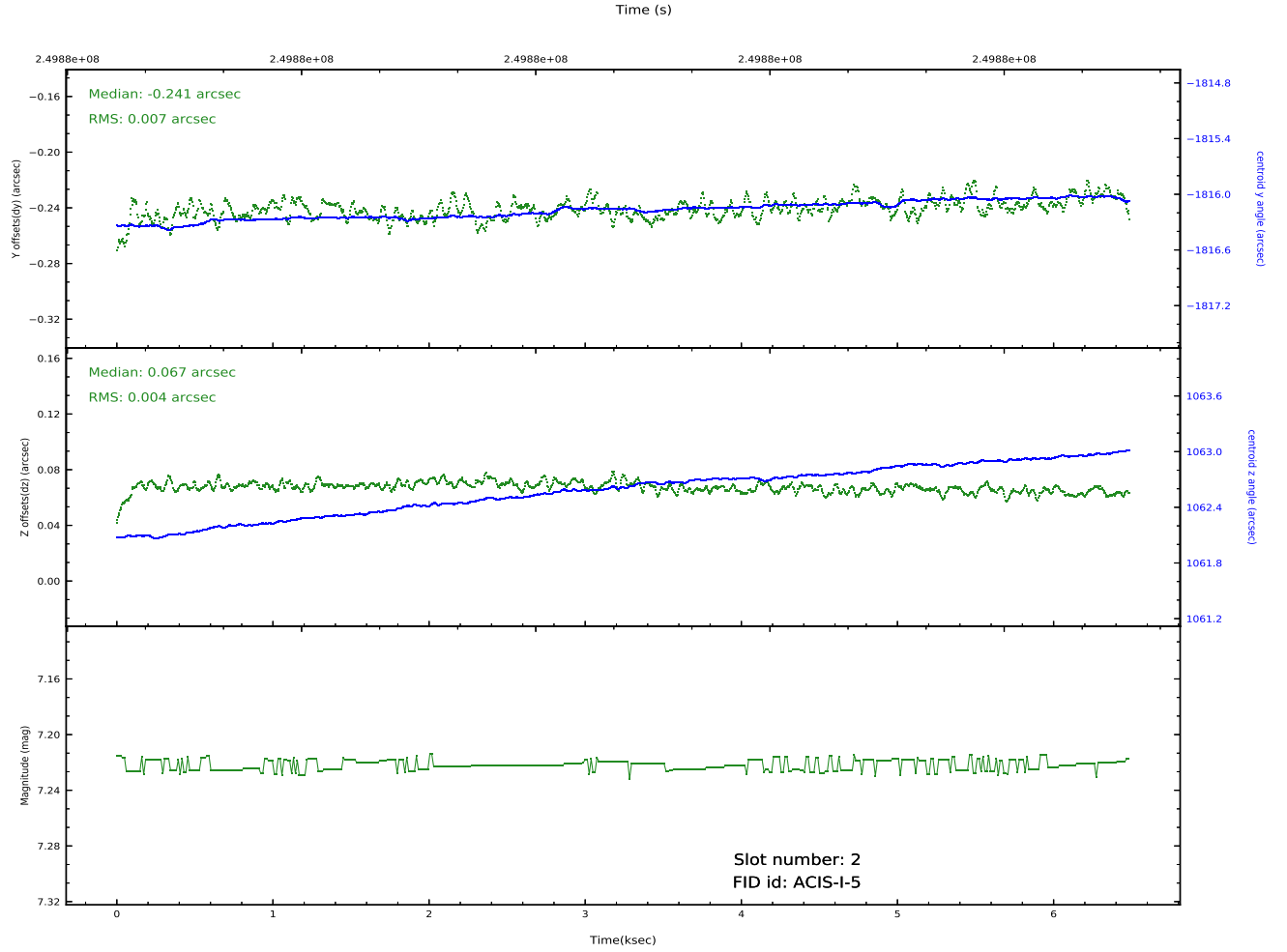
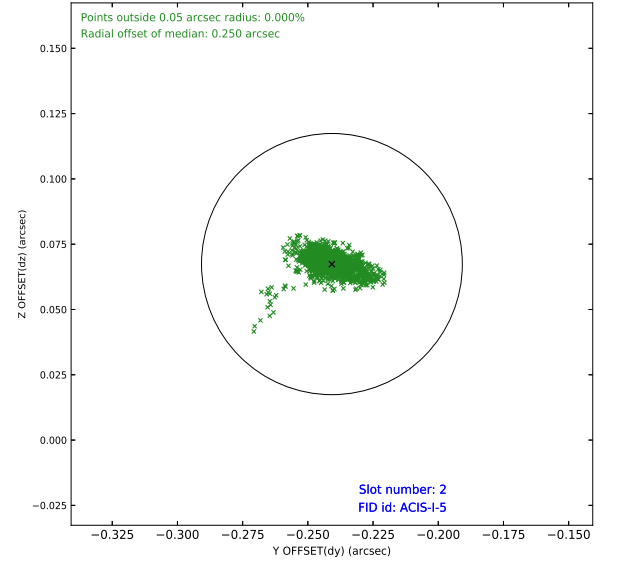
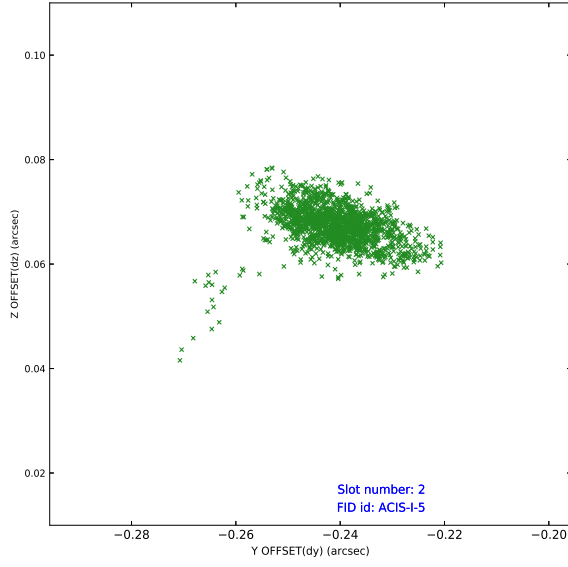
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Francesca Civano
V&V Date (YYYY-MM-DD)	2020.10.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.072899

A.2 Comments