

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5186 - L2 Version 4
Chandra X-Ray Center

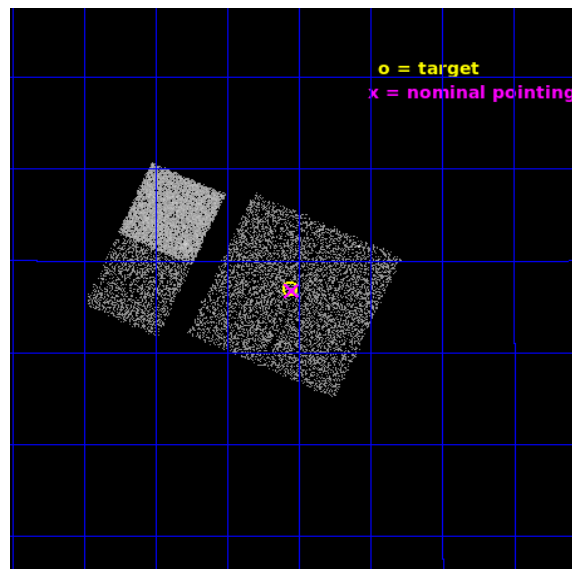
L2 Processing Date : Sep 23 2020

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

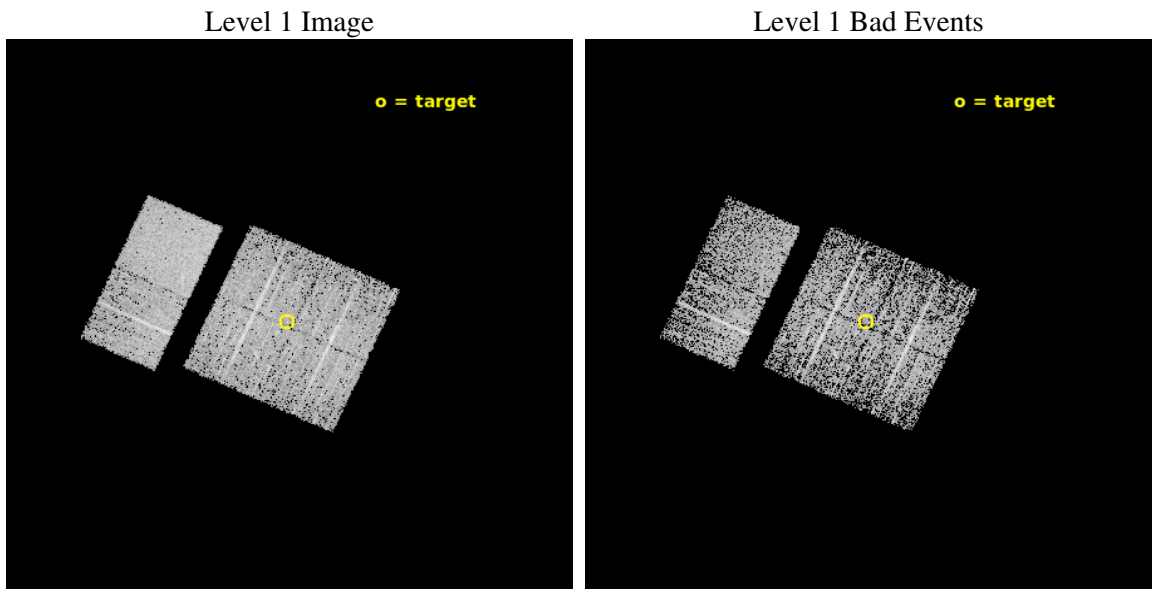
seq_num	200294	Sequence number
obs_id	5186	Observation id
title	Search for beta Pic analogs	Proposal title
observer	Gordon Garmire	Principal investigator
object	HR 1610	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	75.14125	Observer's specified target RA [deg]
dec_targ	3.615833	Observer's specified target Dec [deg]
ra_nom	75.137783498191	Nominal RA [deg]
dec_nom	3.6121256045252	Nominal Dec [deg]
roll_nom	294.57339633216	Nominal Roll [deg]
revision	4	Processing version of data
ontime	3151.9999882579	Sum of GTIs [s]
livetime	3112.0874665	Livetime [s]
ontime0	3151.9999882579	Sum of GTIs [s]
ontime1	3151.9999882579	Sum of GTIs [s]
ontime2	3151.9999882579	Sum of GTIs [s]
ontime3	3151.9999882579	Sum of GTIs [s]
ontime6	3151.9999882579	Sum of GTIs [s]
ontime7	3151.9999882579	Sum of GTIs [s]
l2events	21688	Number of level 2 events



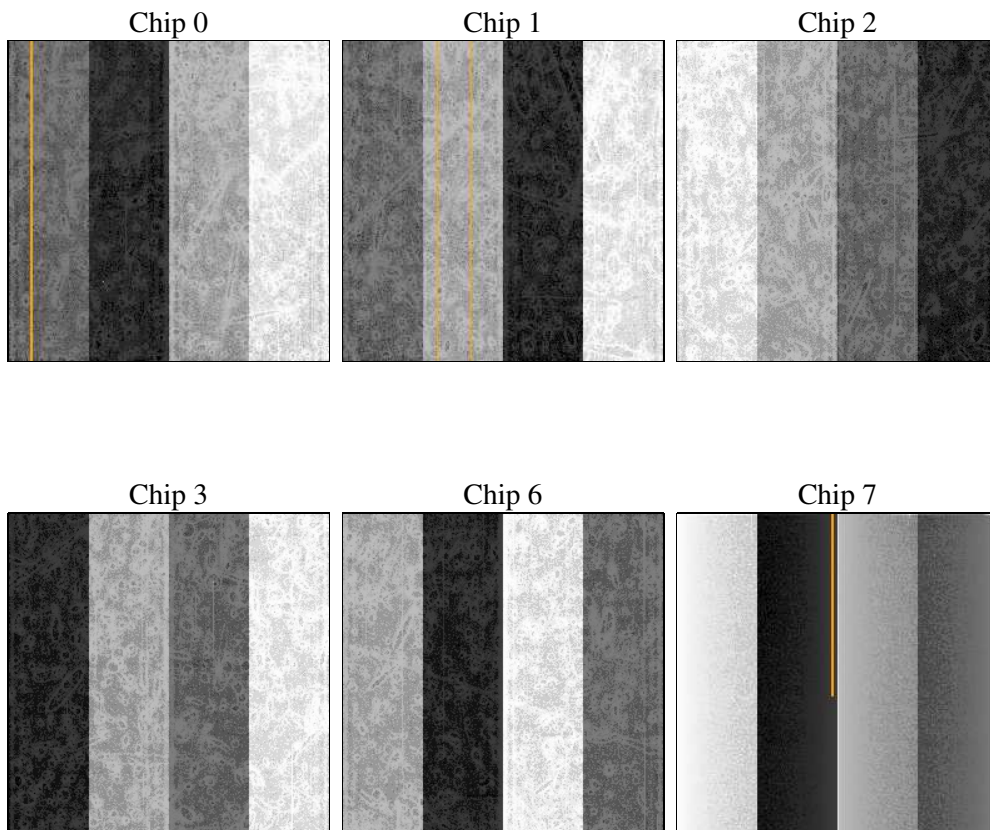
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	3151.9999882579	Sum of GTIs [s]
caldbver	4.9.2	 	ontime0	3151.9999882579	Sum of GTIs [s]
date	2020-09-23T13:53:41	Date and time of file creation	ontime1	3151.9999882579	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	3151.9999882579	Sum of GTIs [s]
			ontime3	3151.9999882579	Sum of GTIs [s]
			ontime6	3151.9999882579	Sum of GTIs [s]
			ontime7	3151.9999882579	Sum of GTIs [s]
			l1events	198968	Number of level 1 events

2.1.4 Events

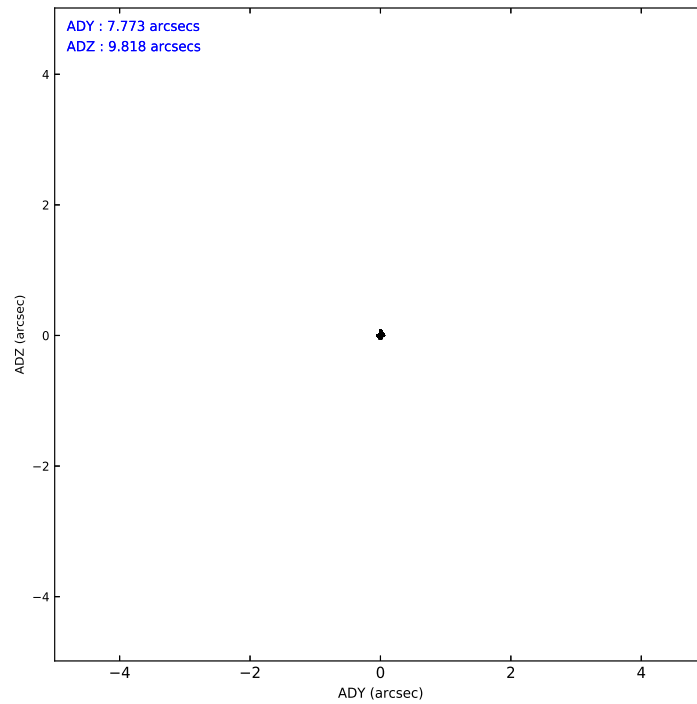
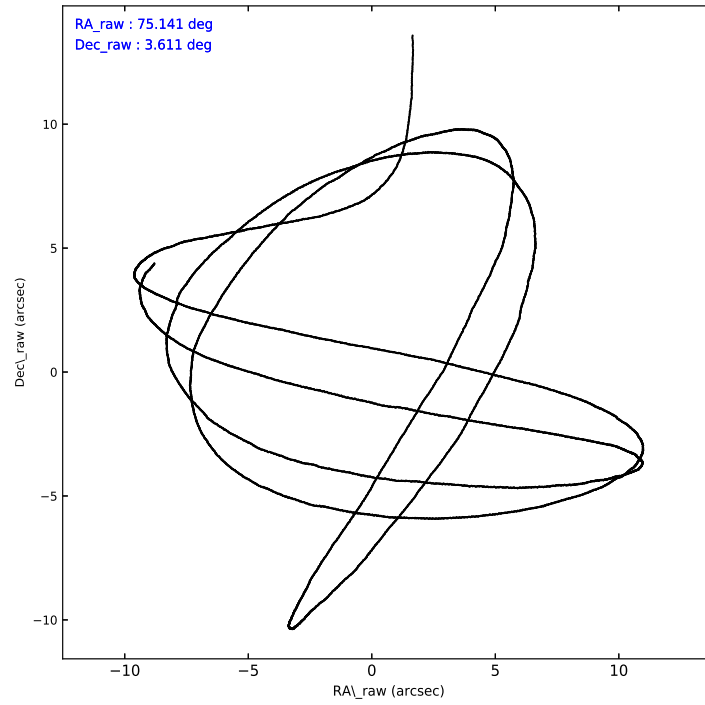
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	28981	29578	33287	30830	32565	43727
rejected events	26513	26888	30893	28471	30179	32298
rejected %	91%	90%	92%	92%	92%	73%

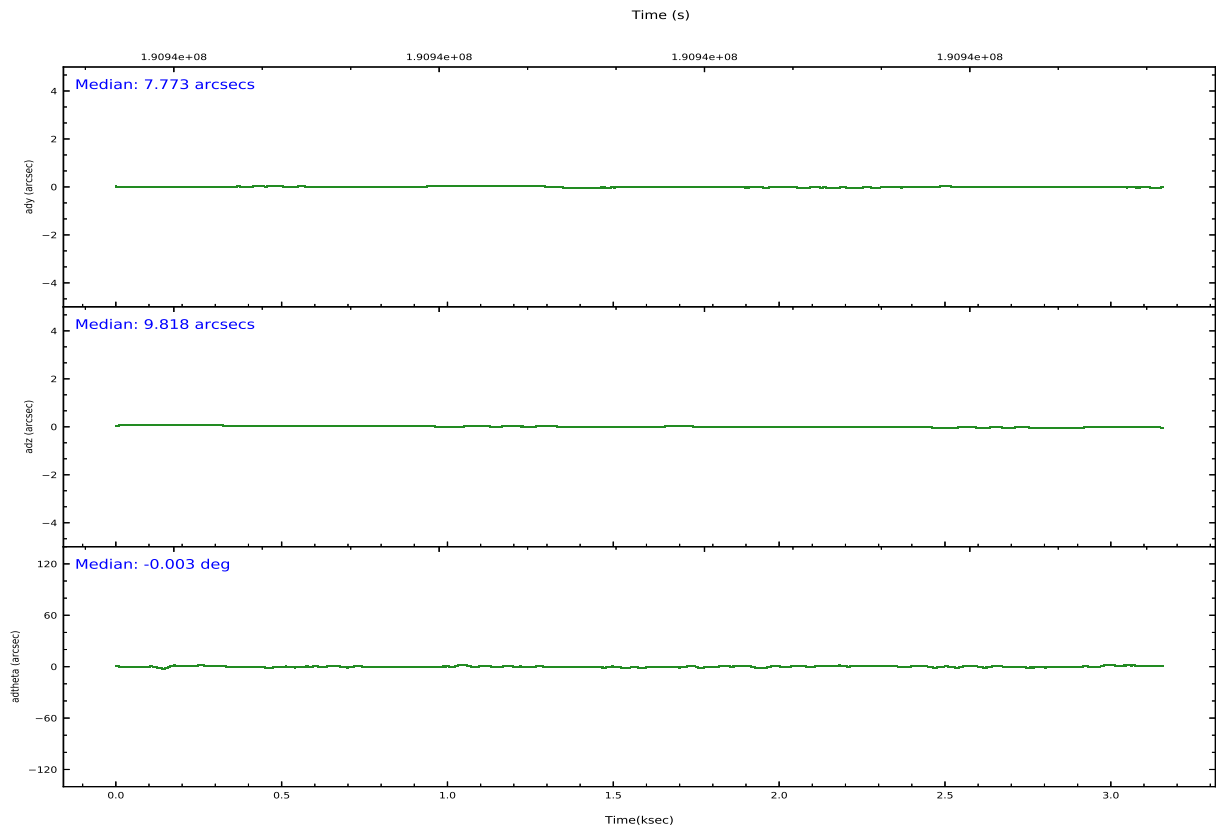
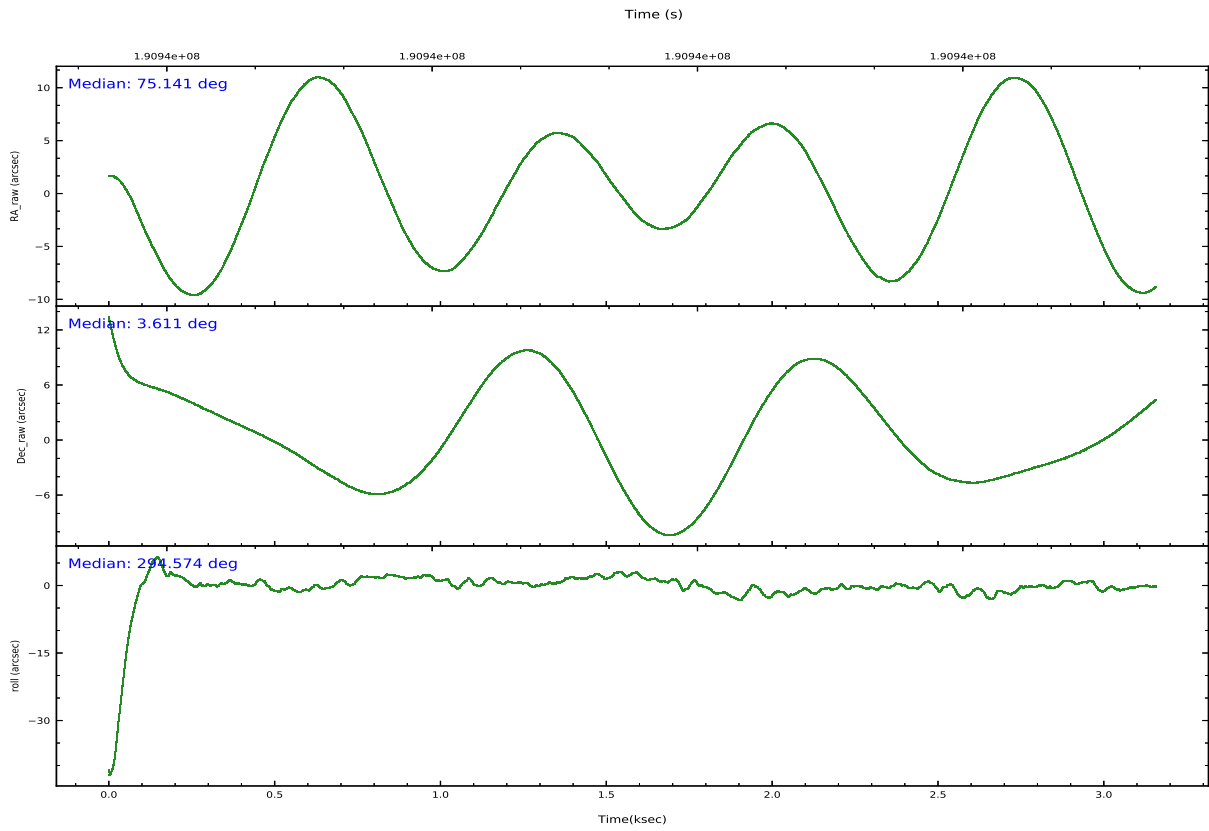
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	1660	1700	1693	1704	1556	1607
	5%	5%	5%	5%	4%	3%
grade 1 events	21	14	25	21	16	44
	0%	0%	0%	0%	0%	0%
grade 2 events	788	853	756	660	798	3568
	2%	2%	2%	2%	2%	8%
grade 3 events	377	412	327	354	372	1654
	1%	1%	0%	1%	1%	3%
grade 4 events	342	383	405	373	339	1605
	1%	1%	1%	1%	1%	3%
grade 5 events	1318	1390	1287	1483	1453	4186
	4%	4%	3%	4%	4%	9%
grade 6 events	707	824	643	635	758	9738
	2%	2%	1%	2%	2%	22%
grade 7 events	23768	24002	28151	25600	27273	21325
	82%	81%	84%	83%	83%	48%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-012367	ACIS-012367	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	75.118960	75.137783498191	Subarray requested	NONE	NONE
[deg] Pointing Dec	3.626980	3.6121256045252	Alternating exposures requested	N	N
[deg] Pointing Roll	294.365273	294.57339633216	[s] Primary exposure time	0.000000	3.2
[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)	190940784.184000	190938765.09422			
Observation start date	2004-01-19T23:05:20	2004-01-19T22:32:45			
[s] Observation end time (MET)	190943784.184000	190944366.20696			
Observation end date	2004-01-19T23:55:20	2004-01-20T00:06:06			
Read mode	TIMED	TIMED			

2.3 Aspect





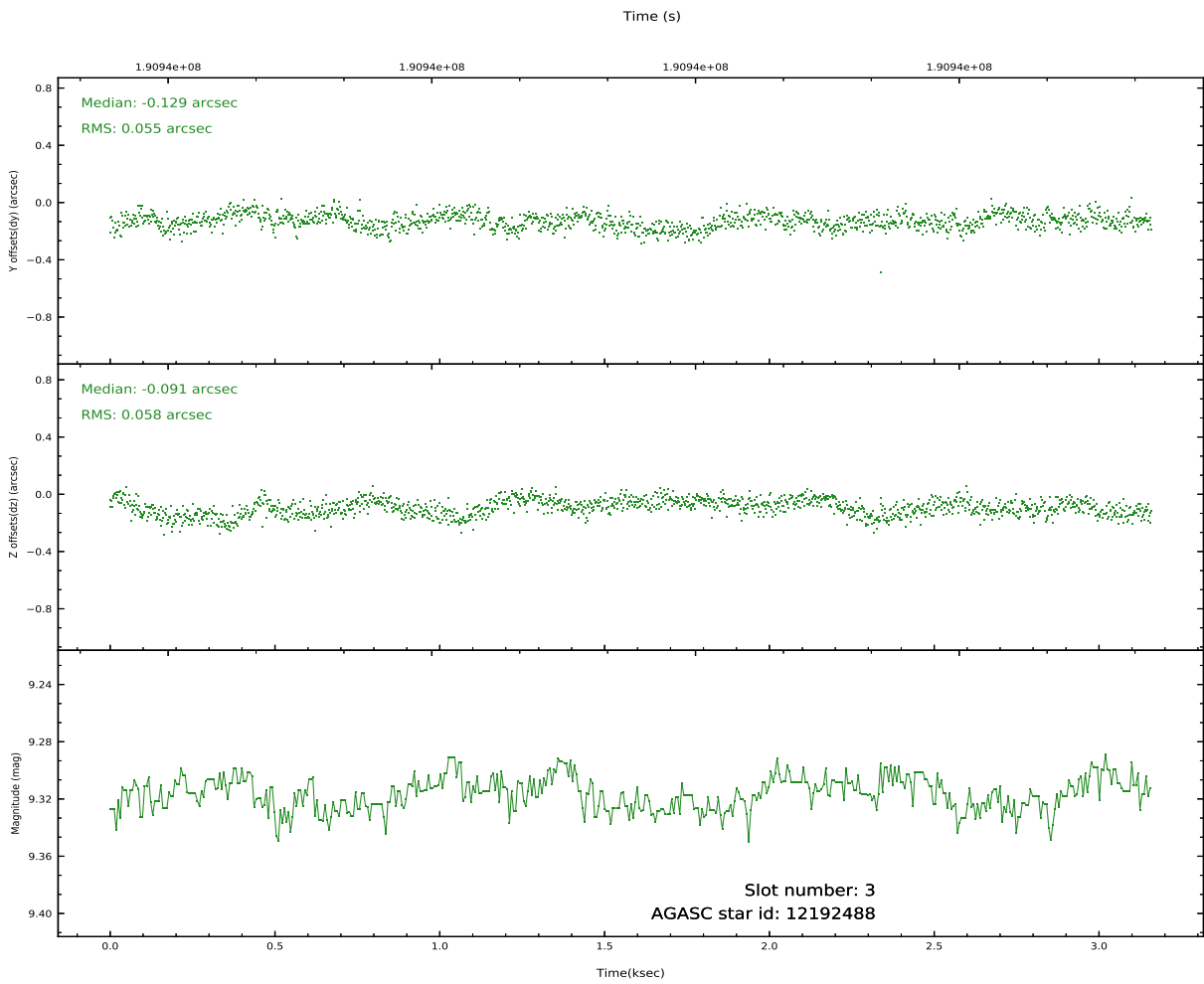
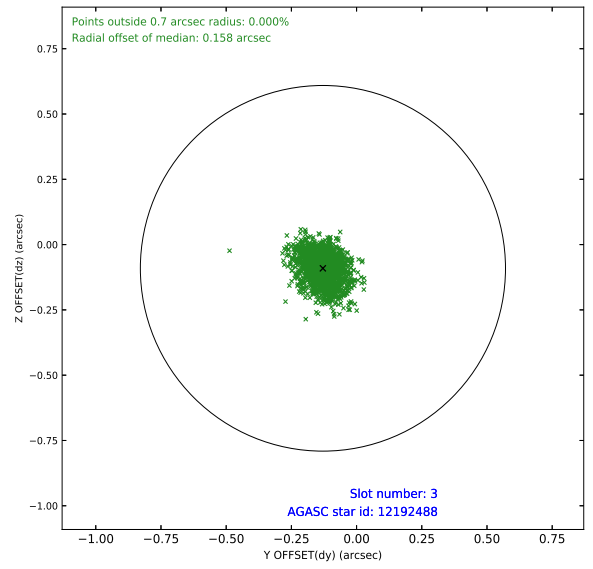
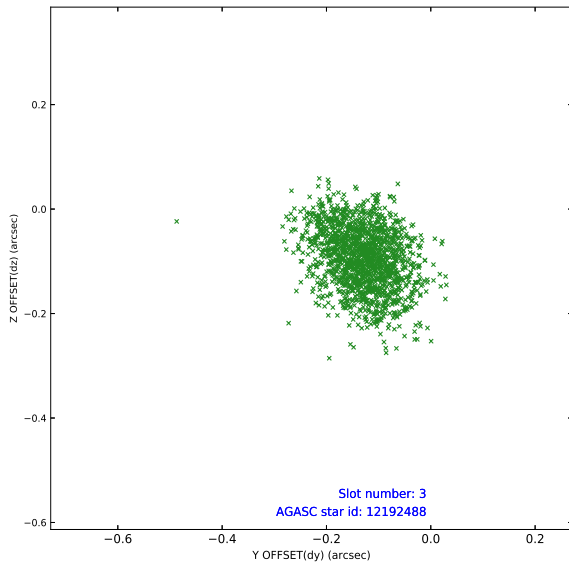
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-2	7.13	771	1.000	-0.099	-0.098	0.008	0.017	0.000000	0.000000	-762.37	-839
1	FID		ACIS-I-4	7.18	771	1.000	0.222	0.085	0.006	0.012	0.000000	0.000000	2151.07	1065
2	FID		ACIS-I-5	7.22	771	1.000	-0.225	0.083	0.009	0.015	0.000000	0.000000	-1813.75	1065
3	GUIDE	used	12192488	9.32	1542	1.000	-0.129	-0.091	0.087	0.132	74.981383	4.187024	-2040.04	381
4	GUIDE	used	13372304	8.23	1542	1.000	-0.052	-0.058	0.062	0.098	75.358097	3.499204	772.55	593
5	GUIDE	used	13372952	7.20	1542	1.000	-0.072	-0.104	0.046	0.075	75.034248	3.286674	991.40	-782
6	GUIDE	used	13371472	7.82	1542	1.000	0.040	0.093	0.060	0.093	75.685637	3.457706	1395.81	1603
7	GUIDE	used	13373280	9.24	1541	1.000	0.215	0.159	0.092	0.145	75.978665	3.315154	2297.70	2353

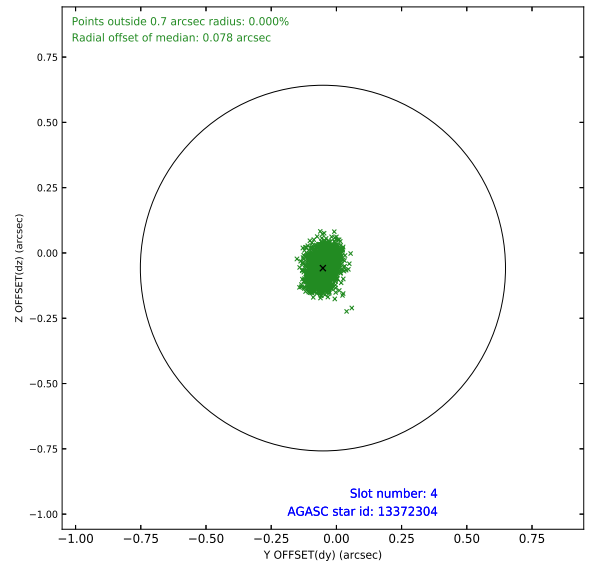
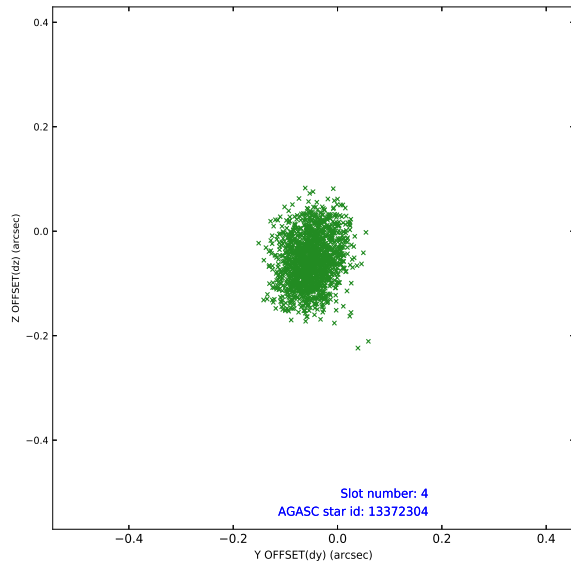
∞

2.4 Star Slots

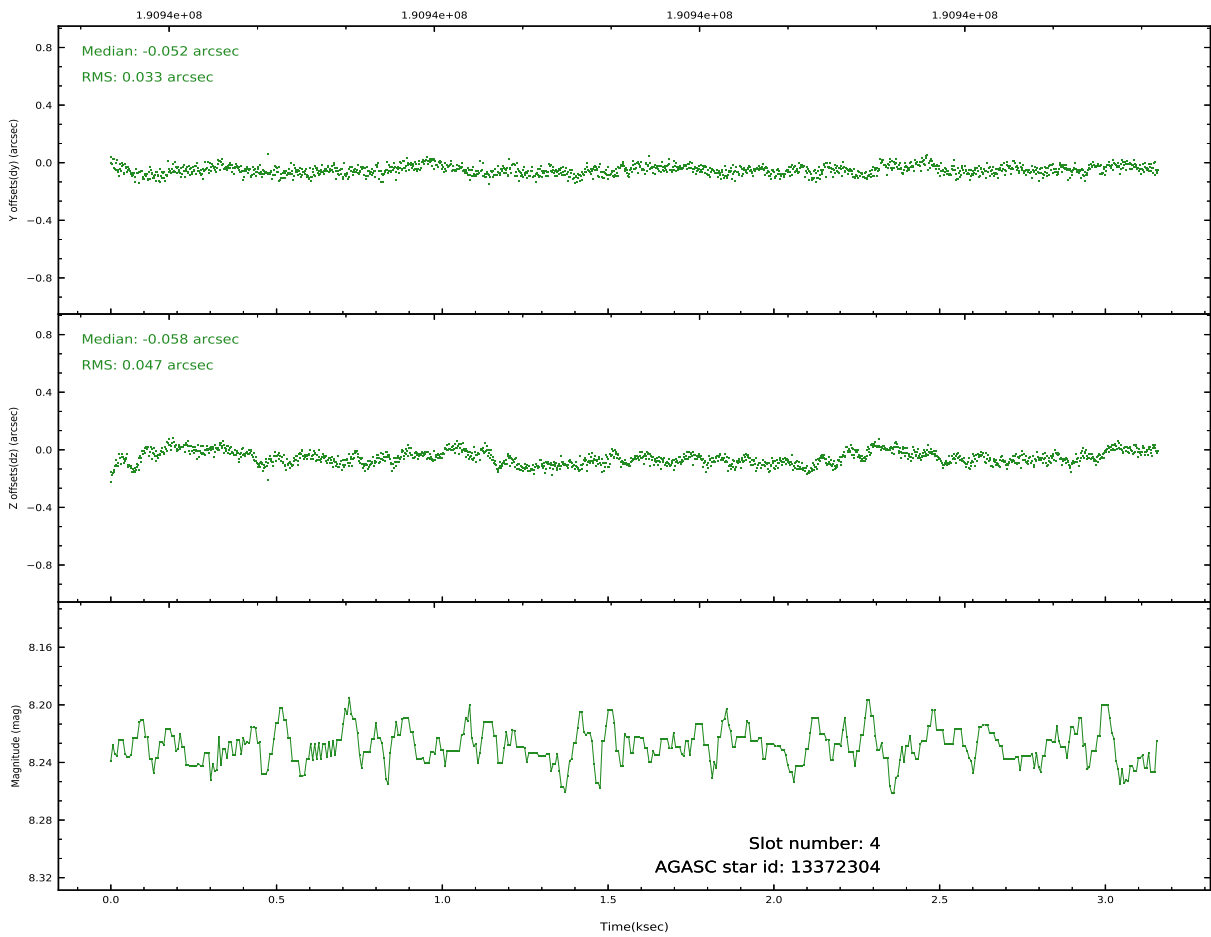
2.4.1 Slot 3



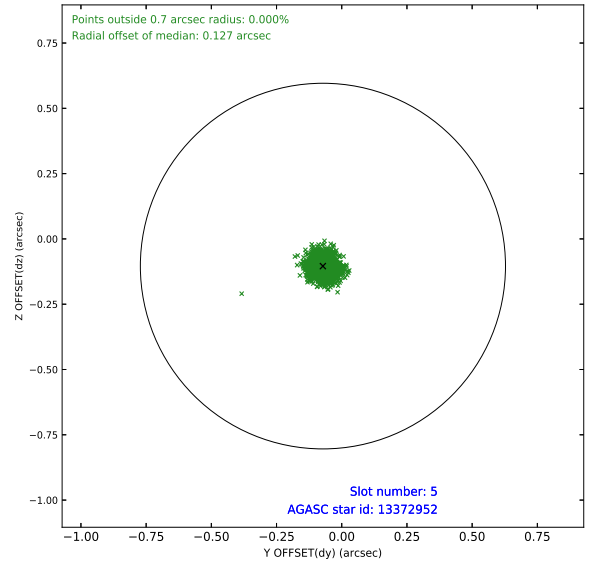
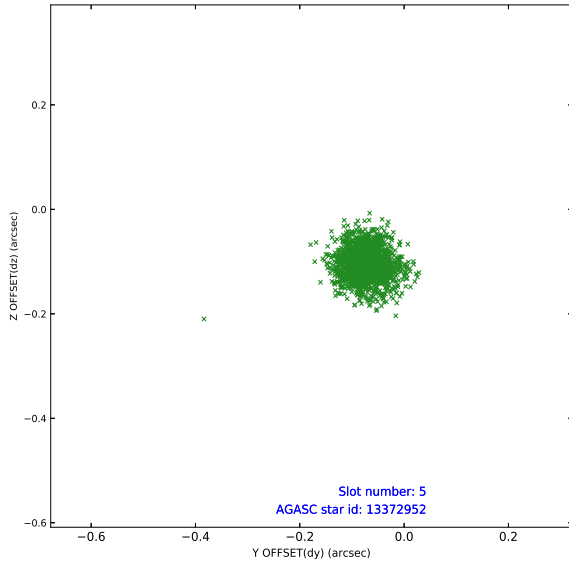
2.4.2 Slot 4



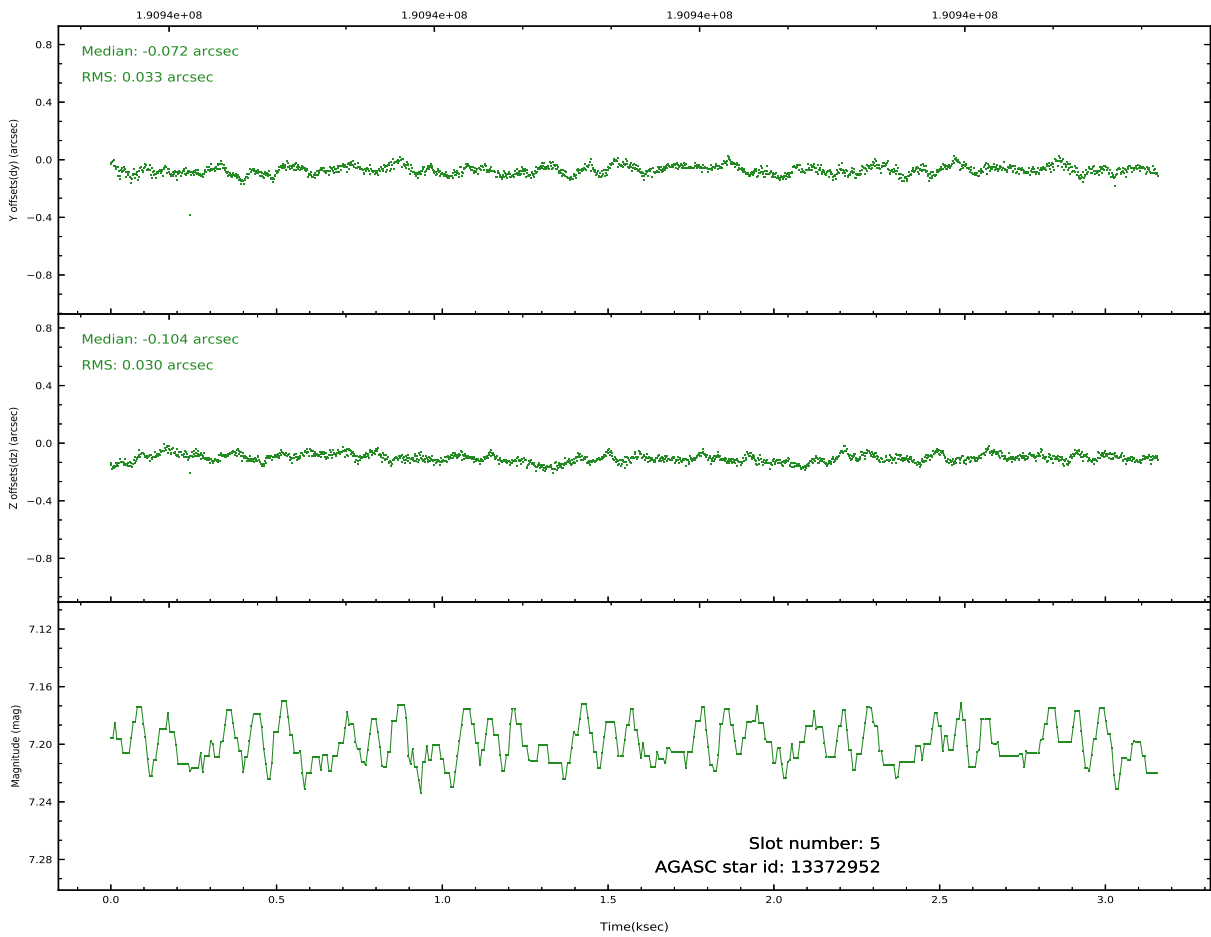
Time (s)



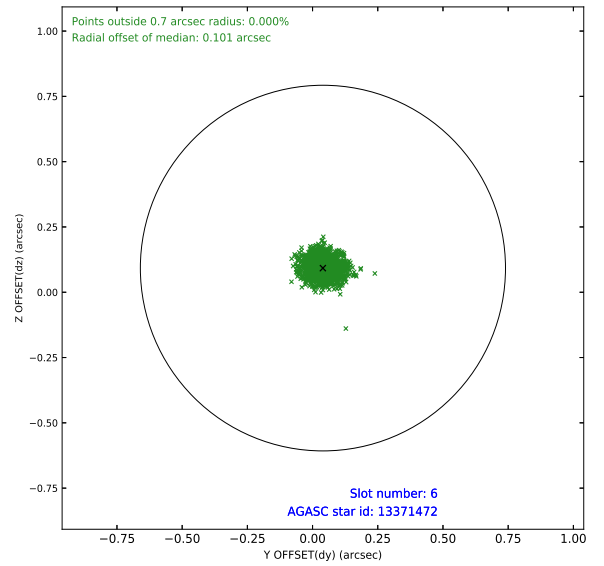
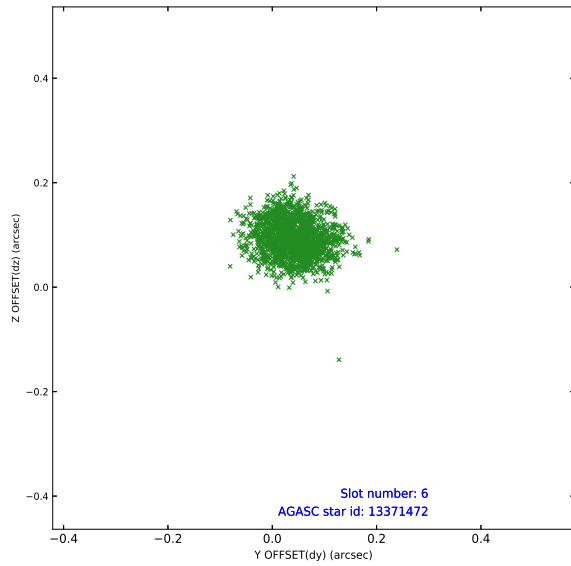
2.4.3 Slot 5



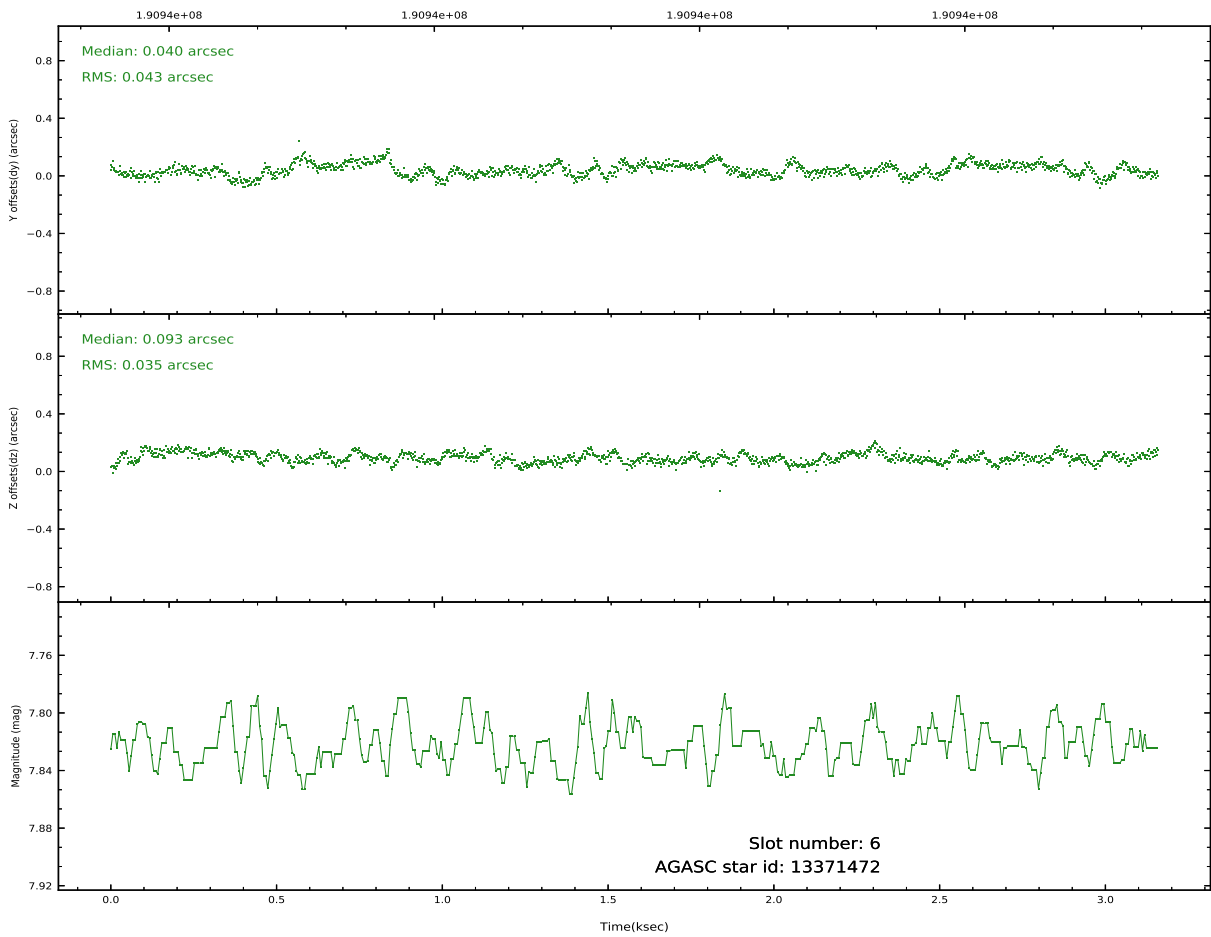
Time (s)



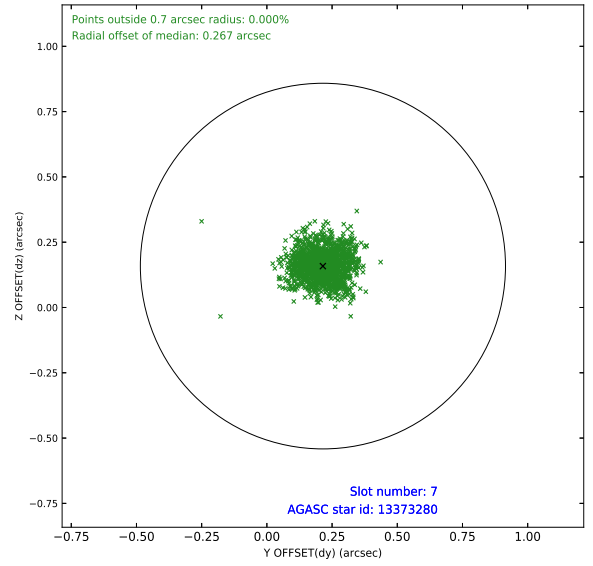
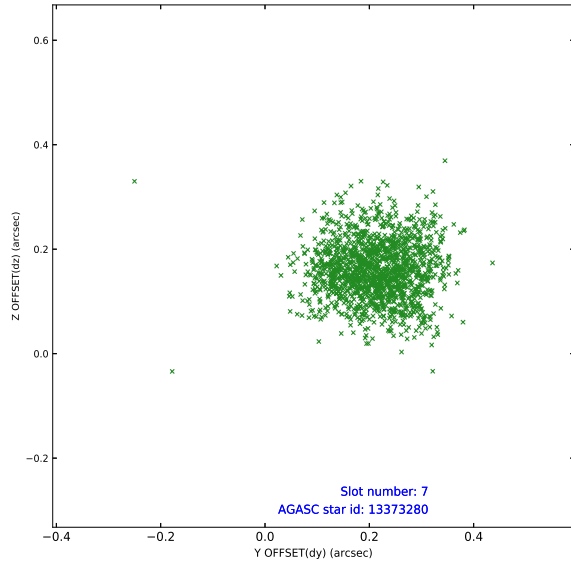
2.4.4 Slot 6



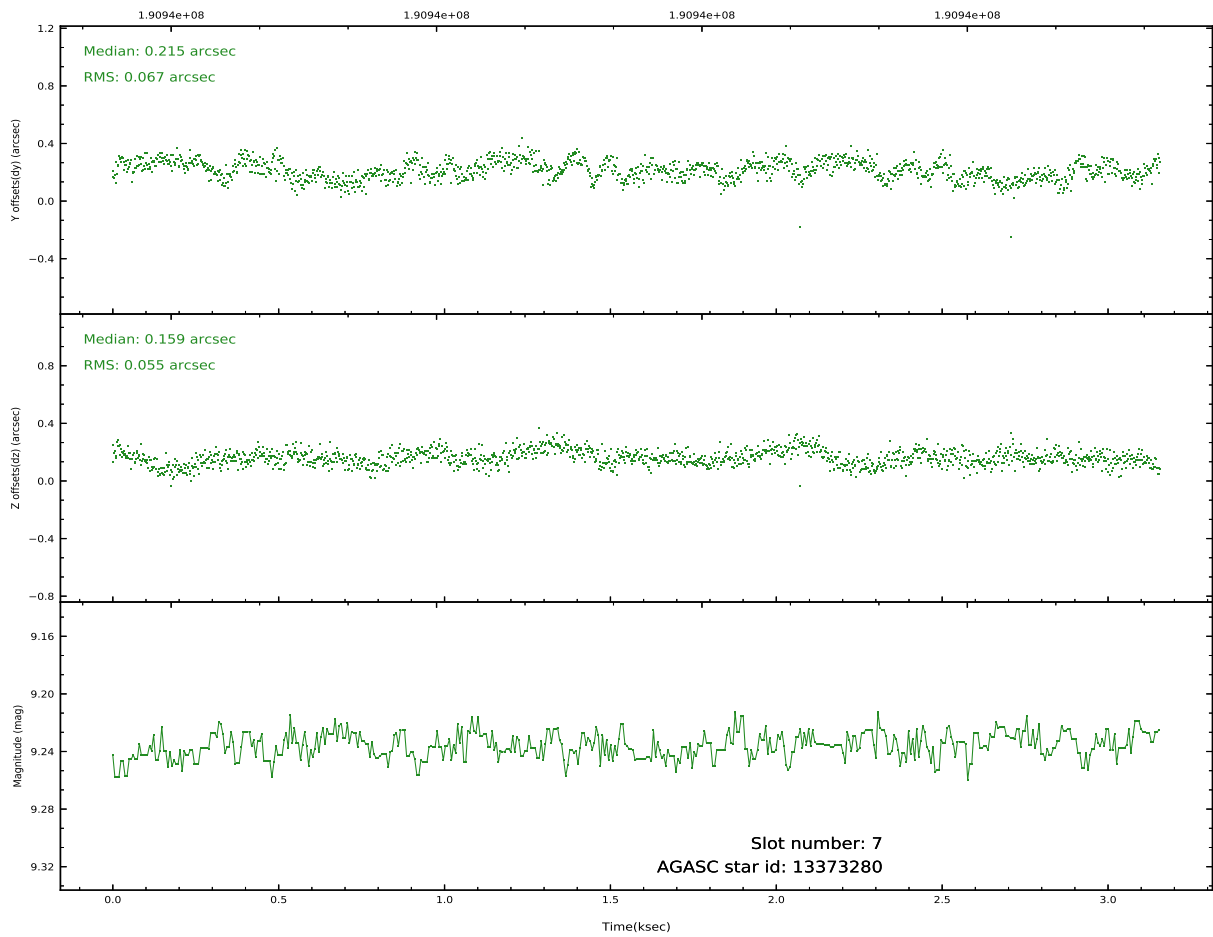
Time (s)



2.4.5 Slot 7

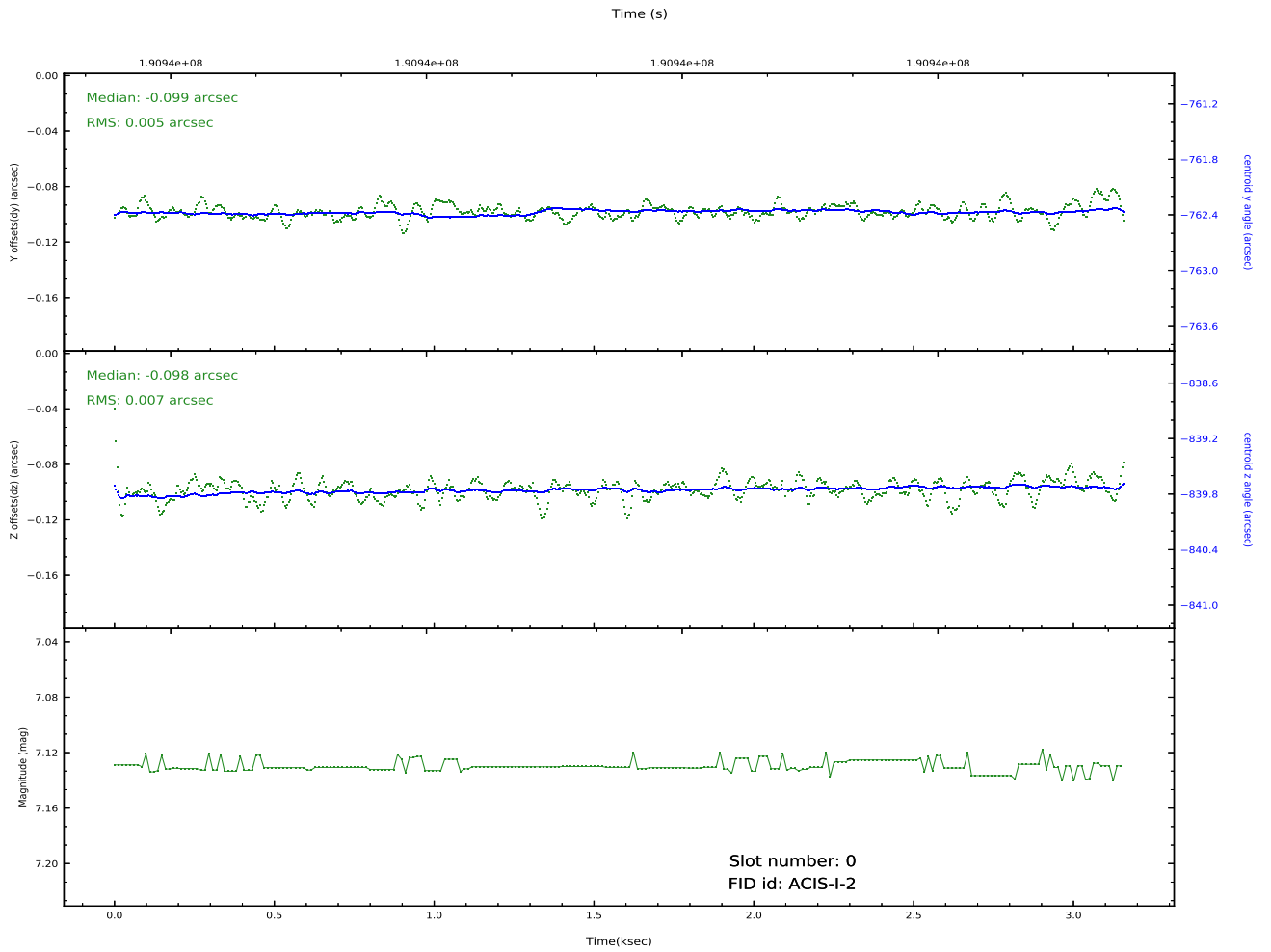
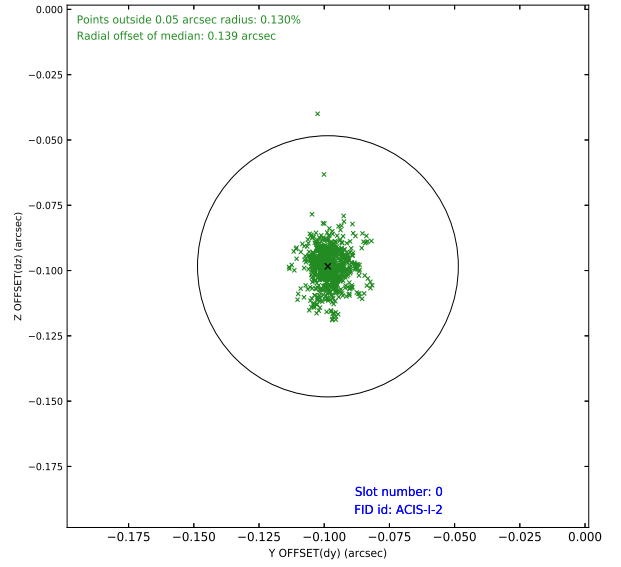
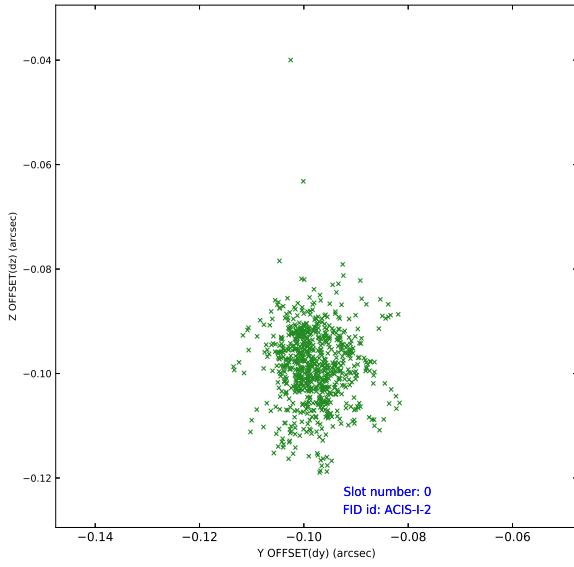


Time (s)

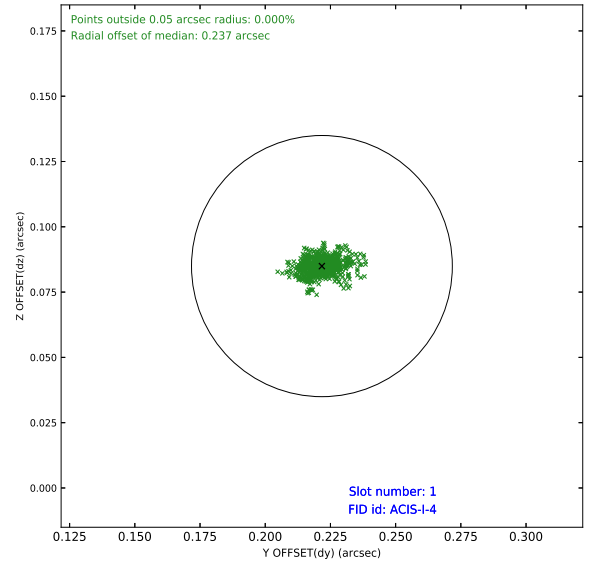
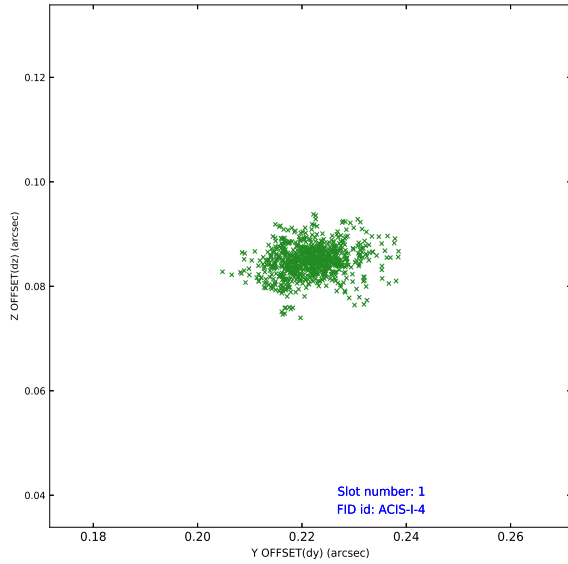


2.5 FID Slots

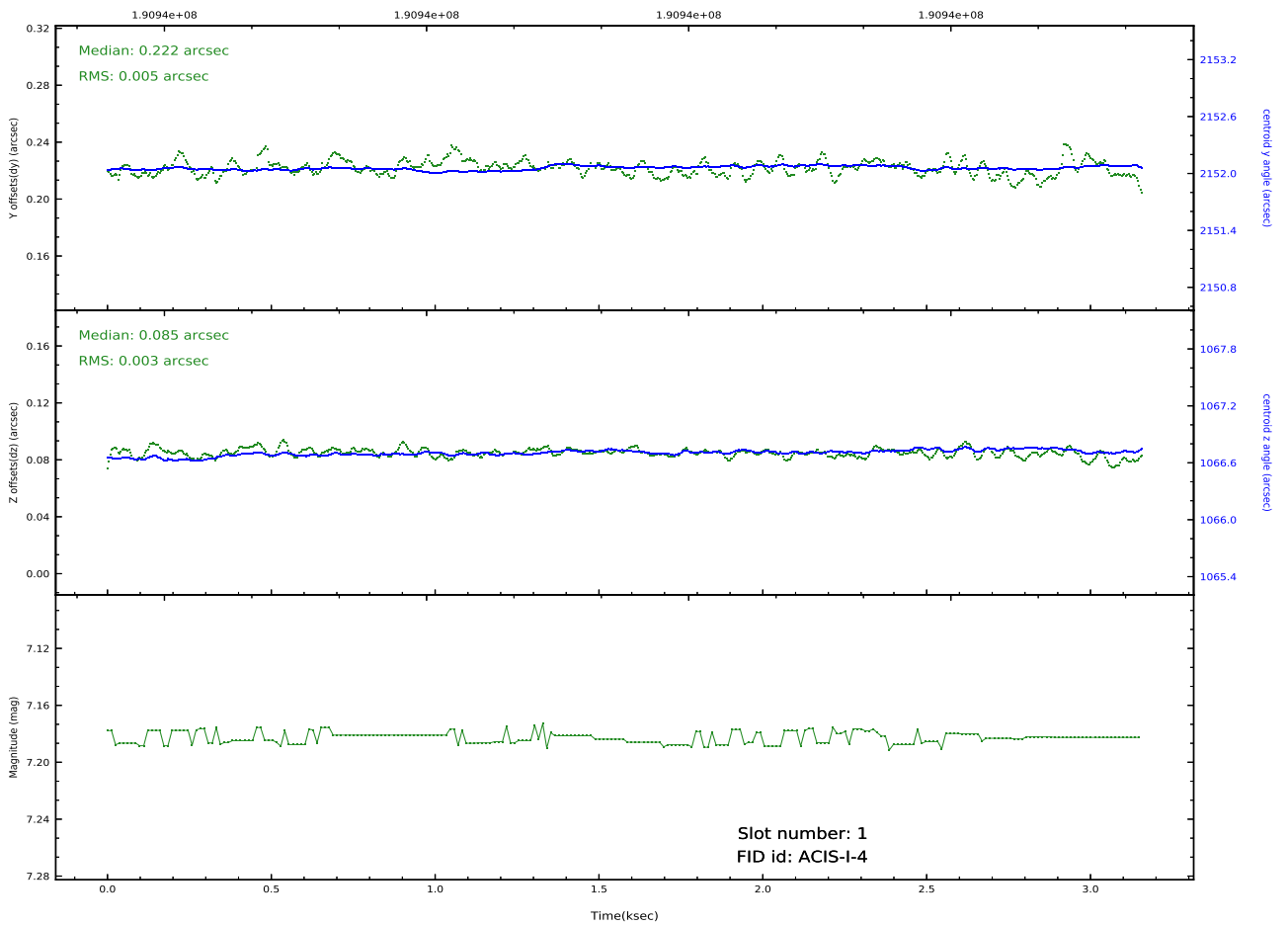
2.5.1 Slot 0



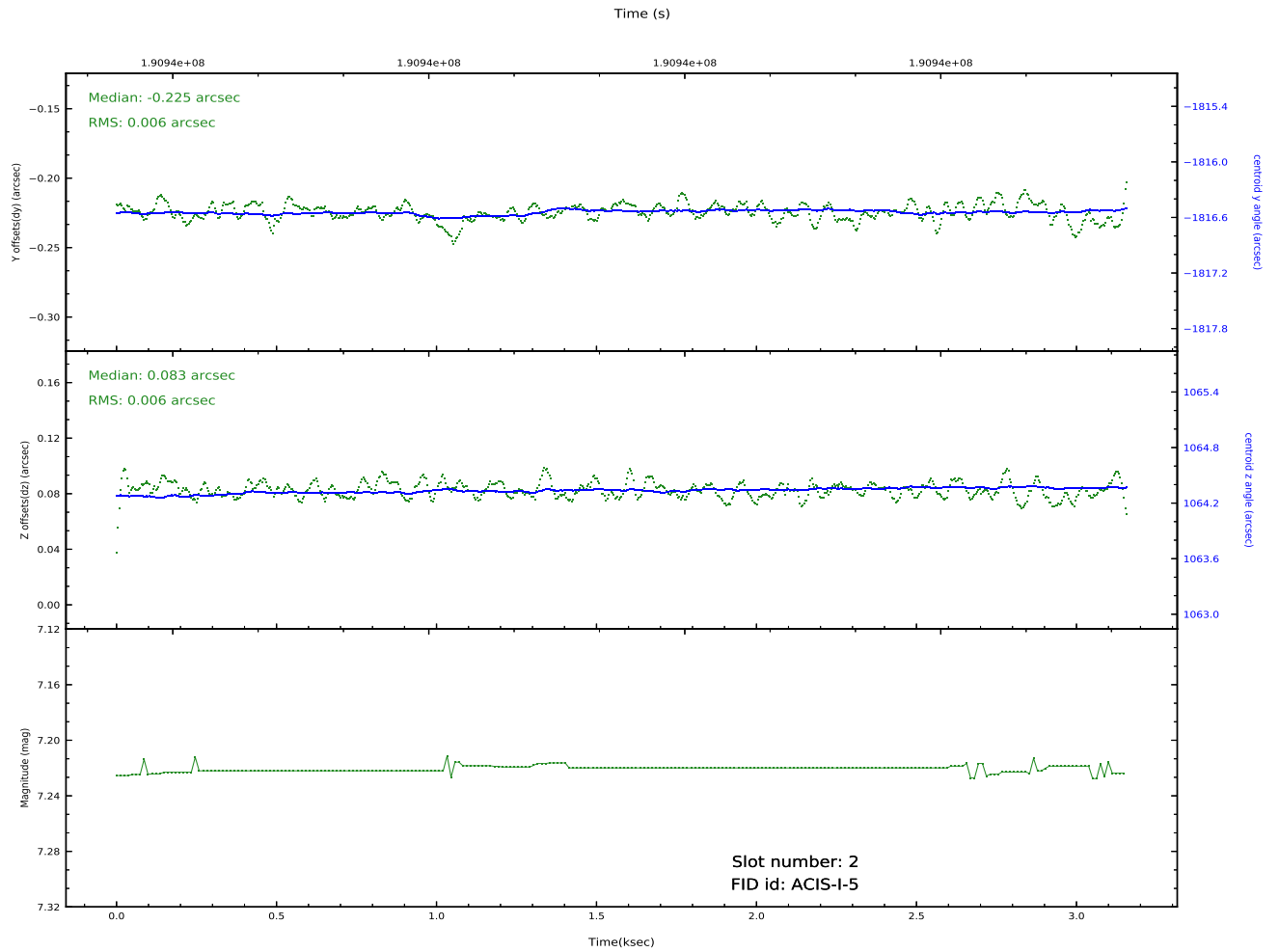
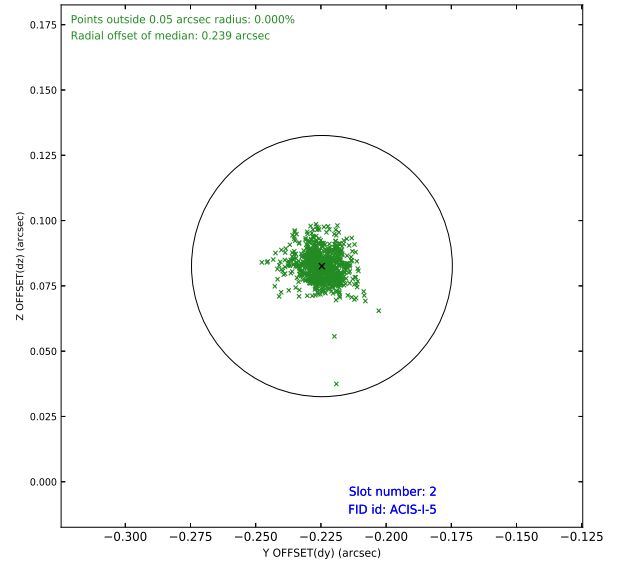
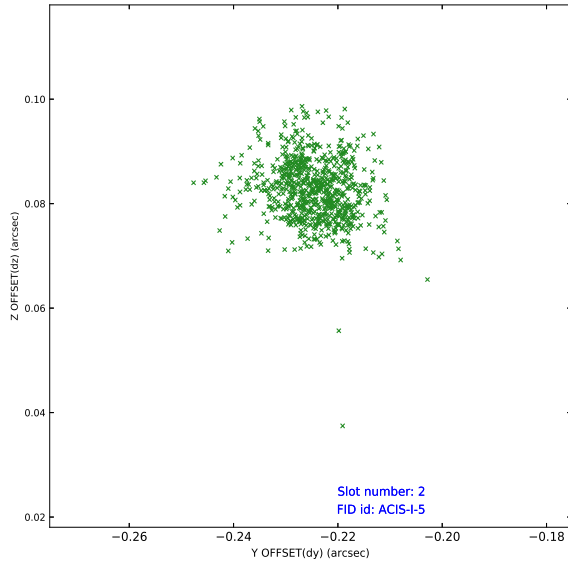
2.5.2 Slot 1



Time (s)



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.09.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.151

A.2 Comments