

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5479 - L2 Version 4
Chandra X-Ray Center

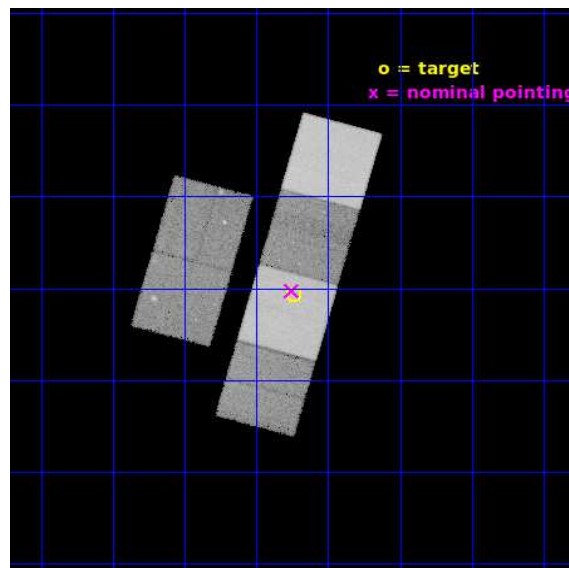
L2 Processing Date : Oct 9 2020

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

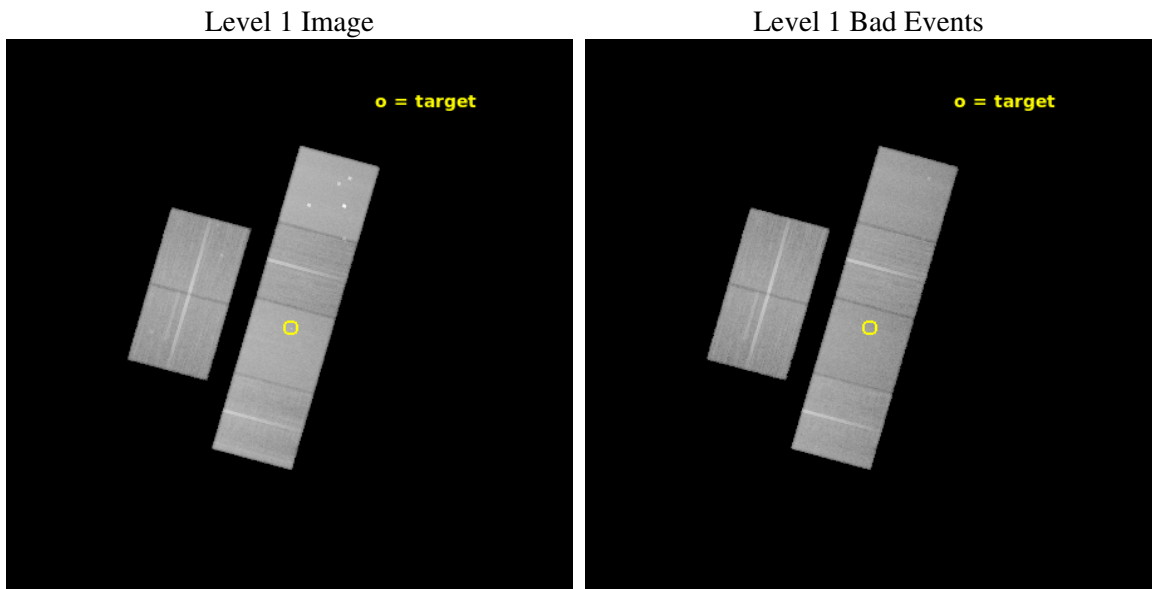
seq_num	400409	Sequence number
obs_id	5479	Observation id
title	Testing and extending the fundamental plane of black hole activity	
observer	Prof. Rob Fender	Principal investigator
object	1A 0620-00	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	95.685417	Observer's specified target RA [deg]
dec_targ	-0.345833	Observer's specified target Dec [deg]
ra_nom	95.688343424519	Nominal RA [deg]
dec_nom	-0.33743106824761	Nominal Dec [deg]
roll_nom	105.58957181301	Nominal Roll [deg]
revision	4	Processing version of data
ontime	40131.1998505	Sum of GTIs [s]
livetime	39623.034433885	Livetime [s]
ontime2	40131.1998505	Sum of GTIs [s]
ontime3	40127.958860308	Sum of GTIs [s]
ontime5	40131.1998505	Sum of GTIs [s]
ontime6	40131.1998505	Sum of GTIs [s]
ontime7	40131.1998505	Sum of GTIs [s]
ontime8	40131.1998505	Sum of GTIs [s]
l2events	490316	Number of level 2 events



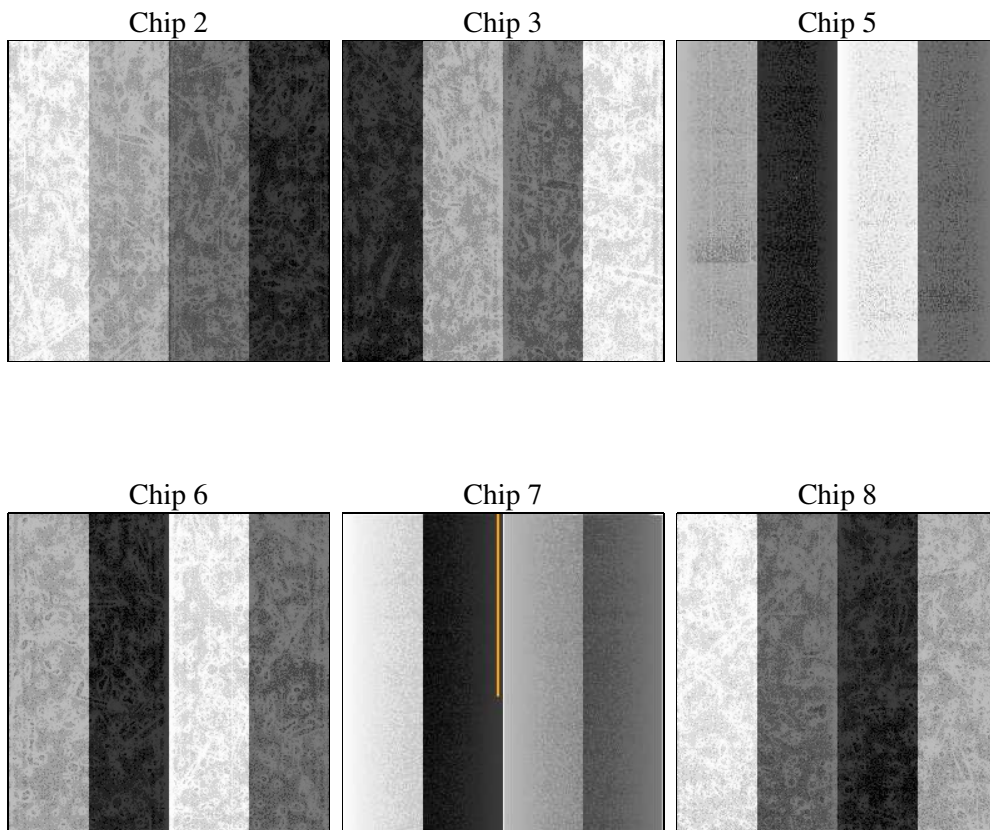
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	40000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	40131.1998505	Sum of GTIs [s]
caldbver	4.9.2	 	ontime2	40131.1998505	Sum of GTIs [s]
date	2020-10-09T23:16:44	Date and time of file creation	ontime3	40127.958860308	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	40131.1998505	Sum of GTIs [s]
			ontime6	40131.1998505	Sum of GTIs [s]
			ontime7	40131.1998505	Sum of GTIs [s]
			ontime8	40131.1998505	Sum of GTIs [s]
			l1events	2259553	Number of level 1 events

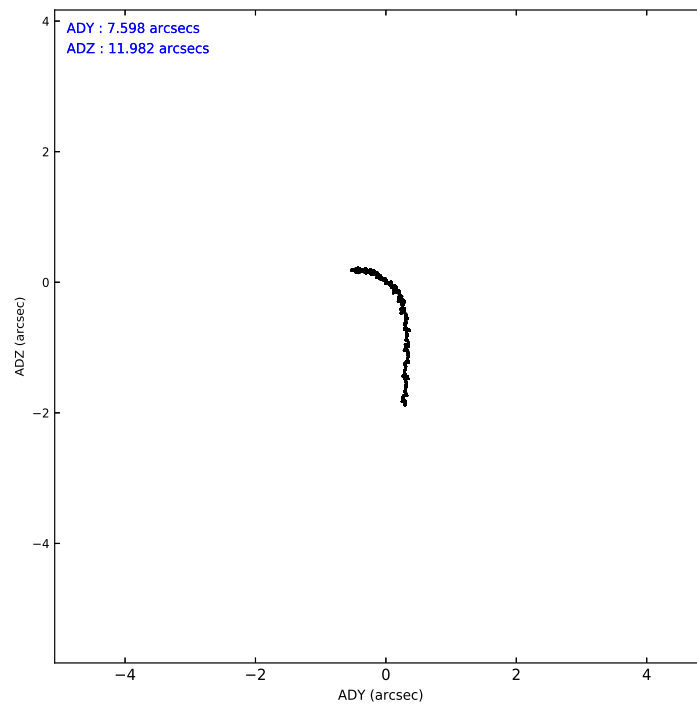
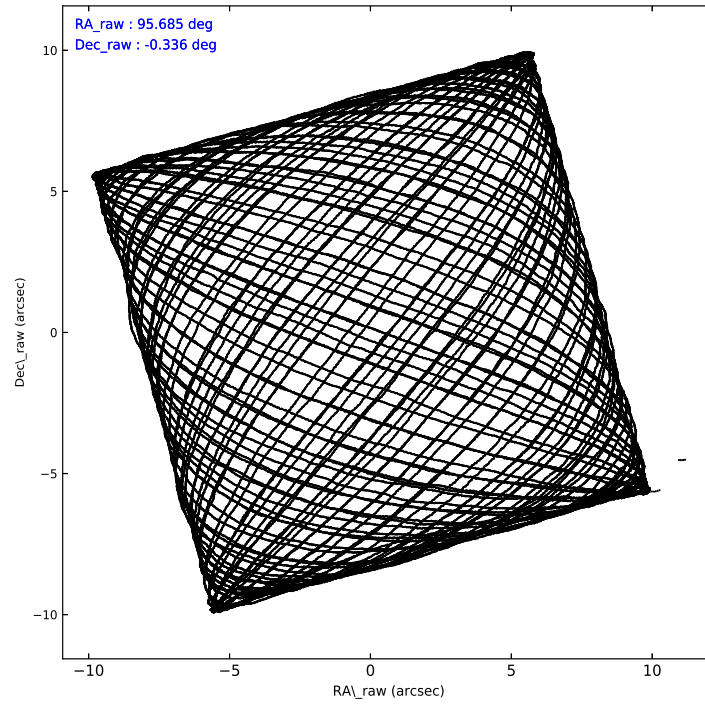
2.1.4 Events

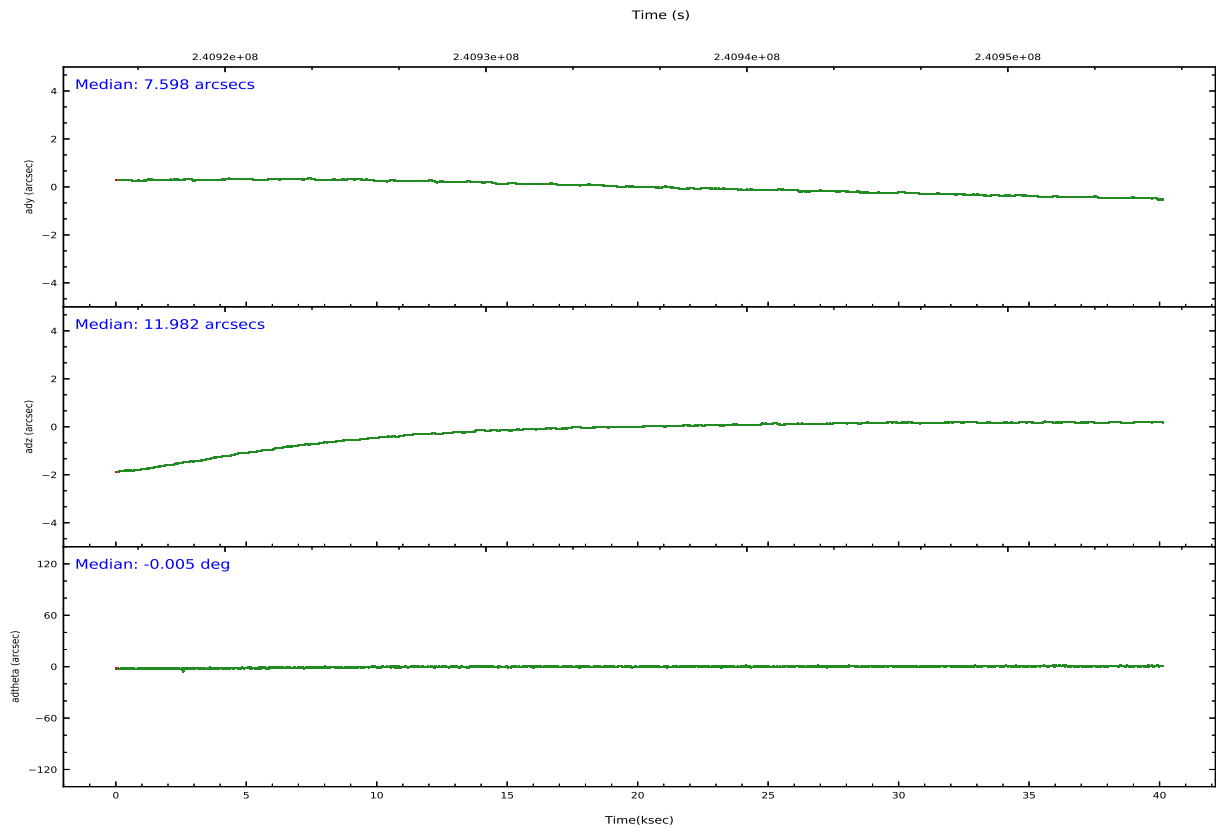
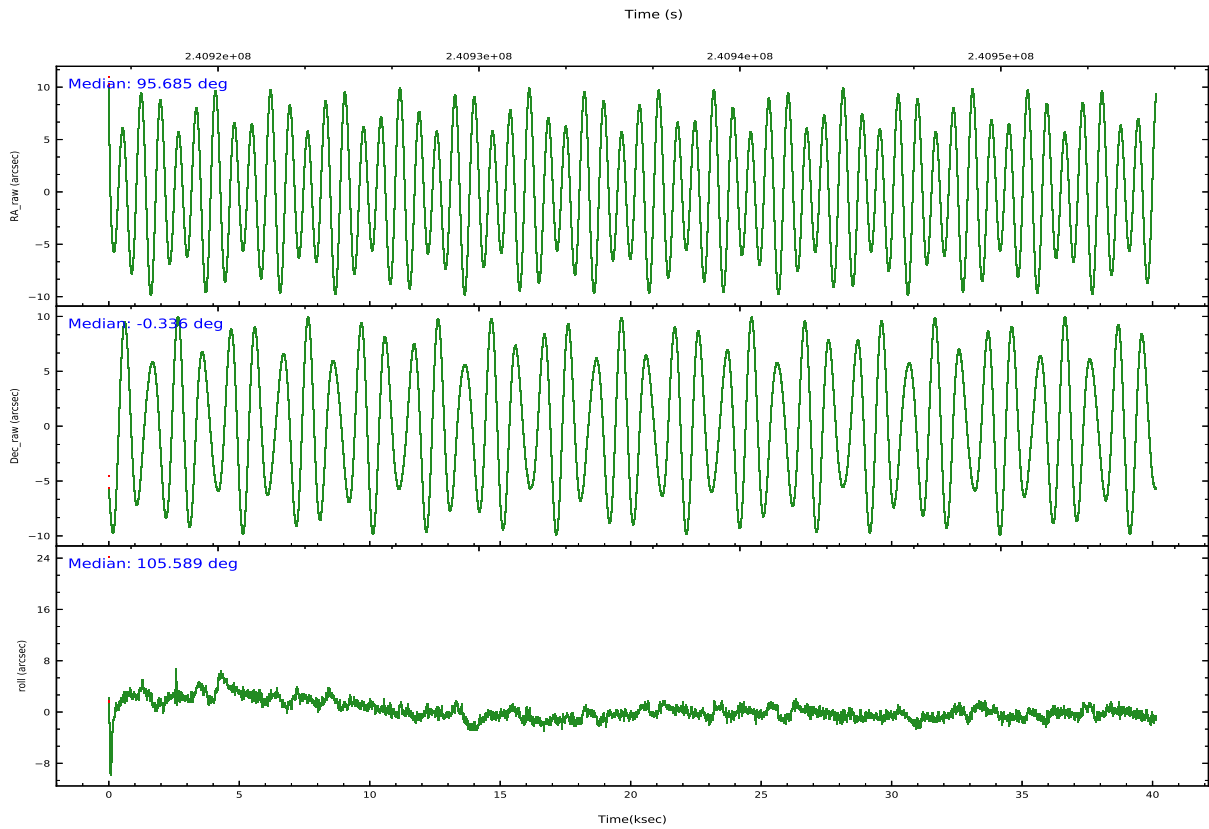
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	319888	307360	485193	320117	429998	396997	grade 0 events	17132	16190	30949	14657	15422	26771
rejected events	282934	271565	267326	284084	258741	313787		5%	5%	6%	4%	3%	6%
rejected %	88%	88%	55%	88%	60%	79%	grade 1 events	201	191	764	137	408	263
								0%	0%	0%	0%	0%	0%
							grade 2 events	7835	7089	64908	7884	35307	19281
								2%	2%	13%	2%	8%	4%
							grade 3 events	3495	3544	8069	3600	15562	9152
								1%	1%	1%	1%	3%	2%
							grade 4 events	3510	3520	7692	3487	15441	8619
								1%	1%	1%	1%	3%	2%
							grade 5 events	12525	14191	34273	14502	41010	19535
								3%	4%	7%	4%	9%	4%
							grade 6 events	6266	6642	114254	7701	95556	22084
								1%	2%	23%	2%	22%	5%
							grade 7 events	268924	255993	224284	268149	211292	291292
								84%	83%	46%	83%	49%	73%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-235678	ACIS-235678	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	95.704199	95.688343424519	Subarray requested	NONE	NONE
[deg] Pointing Dec	-0.355002	-0.33743106824761	Alternating exposures requested	N	N
[deg] Pointing Roll	105.434256	105.58957181301	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	240915952.184000	240914206.48371			
Observation start date	2005-08-20T09:04:48	2005-08-20T08:36:46			
[s] Observation end time (MET)	240955952.184000	240956479.53565			
Observation end date	2005-08-20T20:11:28	2005-08-20T20:21:19			
Read mode	TIMED	TIMED			

2.3 Aspect





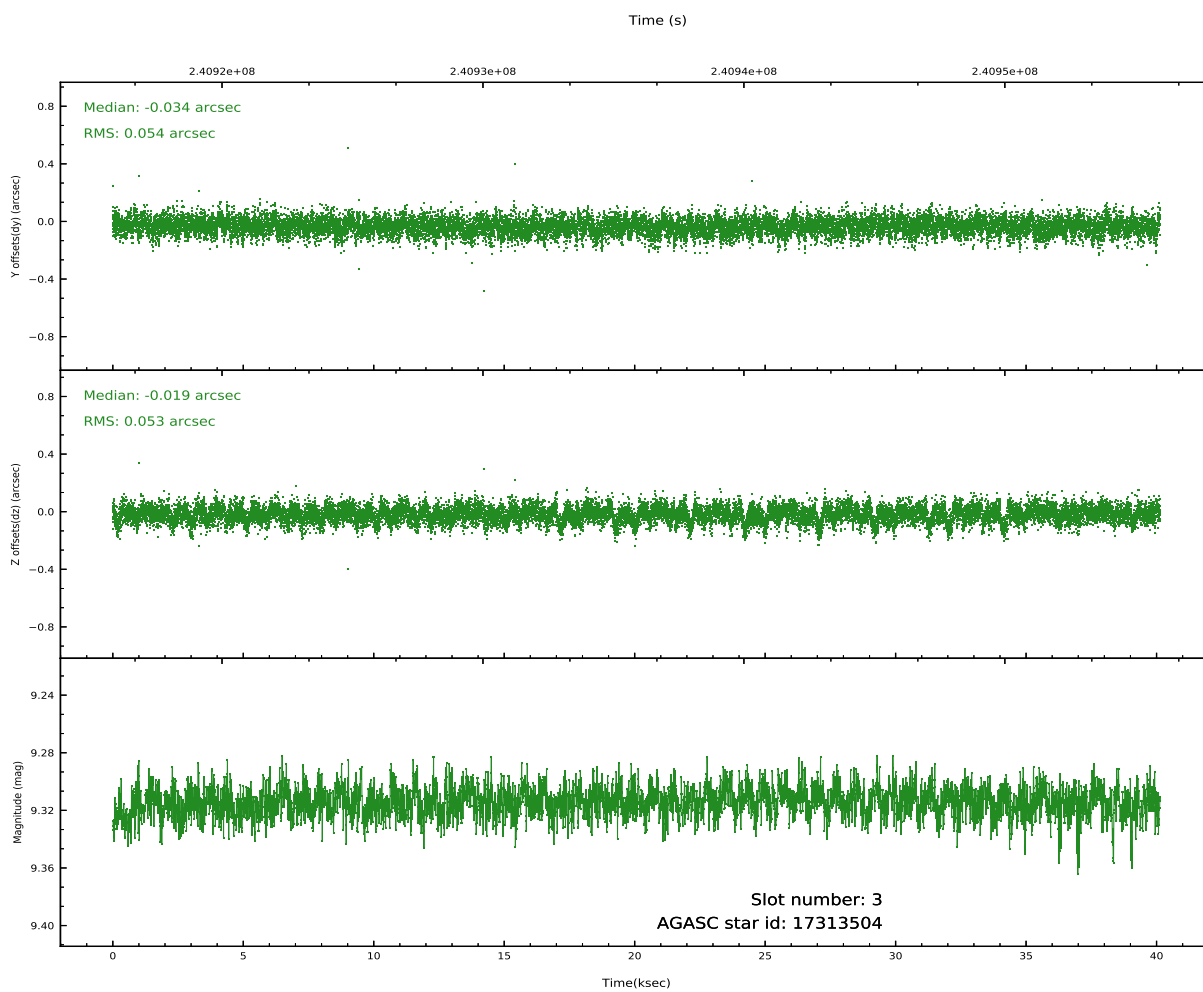
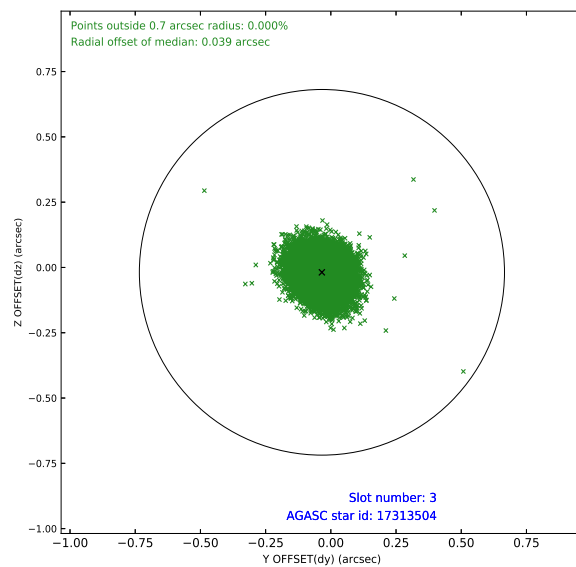
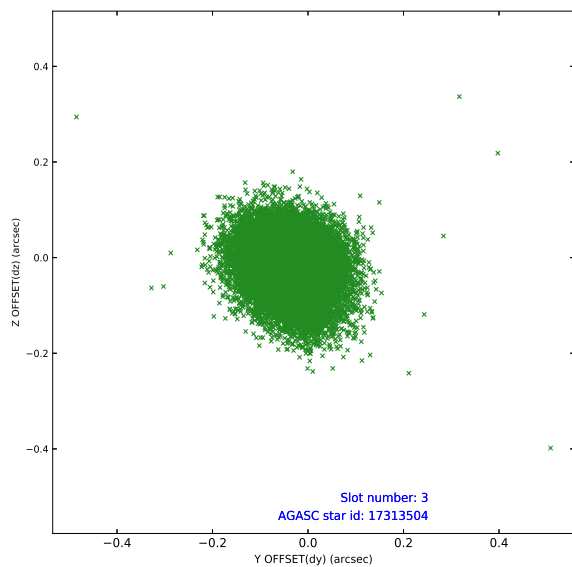
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-2	7.10	9790	1.000	-0.092	-0.078	0.011	0.032	0.000000	0.000000	-760.42	-1733
1	FID		ACIS-S-4	7.20	9788	1.000	0.098	0.035	0.009	0.022	0.000000	0.000000	2153.01	175
2	FID		ACIS-S-6	7.35	9790	1.000	-0.033	0.050	0.009	0.018	0.000000	0.000000	401.60	812
3	GUIDE	used	17313504	9.31	19568	1.000	-0.034	-0.019	0.079	0.132	95.559302	0.008928	1401.70	154
4	GUIDE	used	627060256	9.38	19565	1.000	0.057	-0.023	0.091	0.150	95.367778	-0.918062	-1631.61	1706
5	GUIDE	used	627187008	8.06	19577	1.000	0.042	-0.052	0.066	0.104	95.706759	-0.833093	-1661.38	449
6	GUIDE	used	627187176	8.02	19551	1.000	-0.175	-0.096	0.054	0.086	95.647337	-0.234674	471.99	82
7	GUIDE	used	627197472	8.61	19575	1.000	0.105	0.190	0.092	0.141	96.421301	-0.454862	-1032.95	-2392

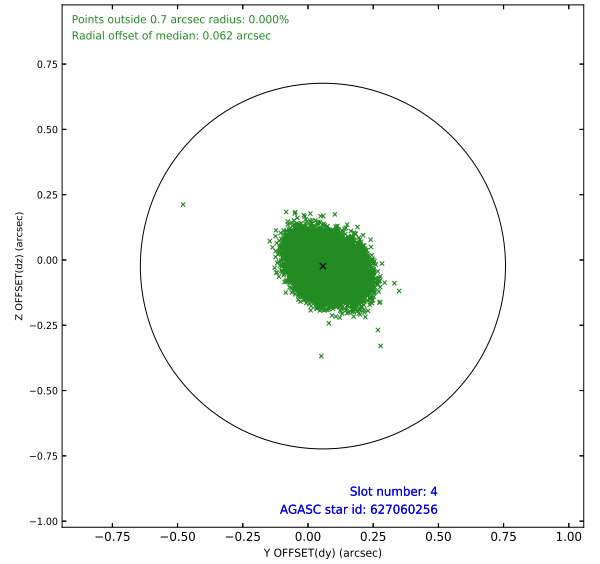
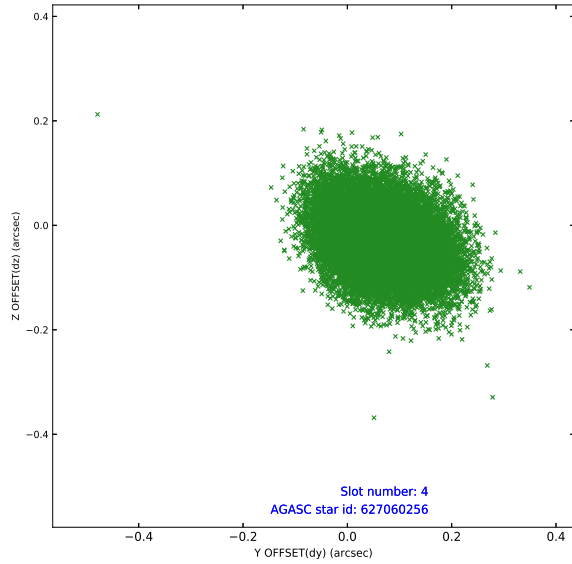
∞

2.4 Star Slots

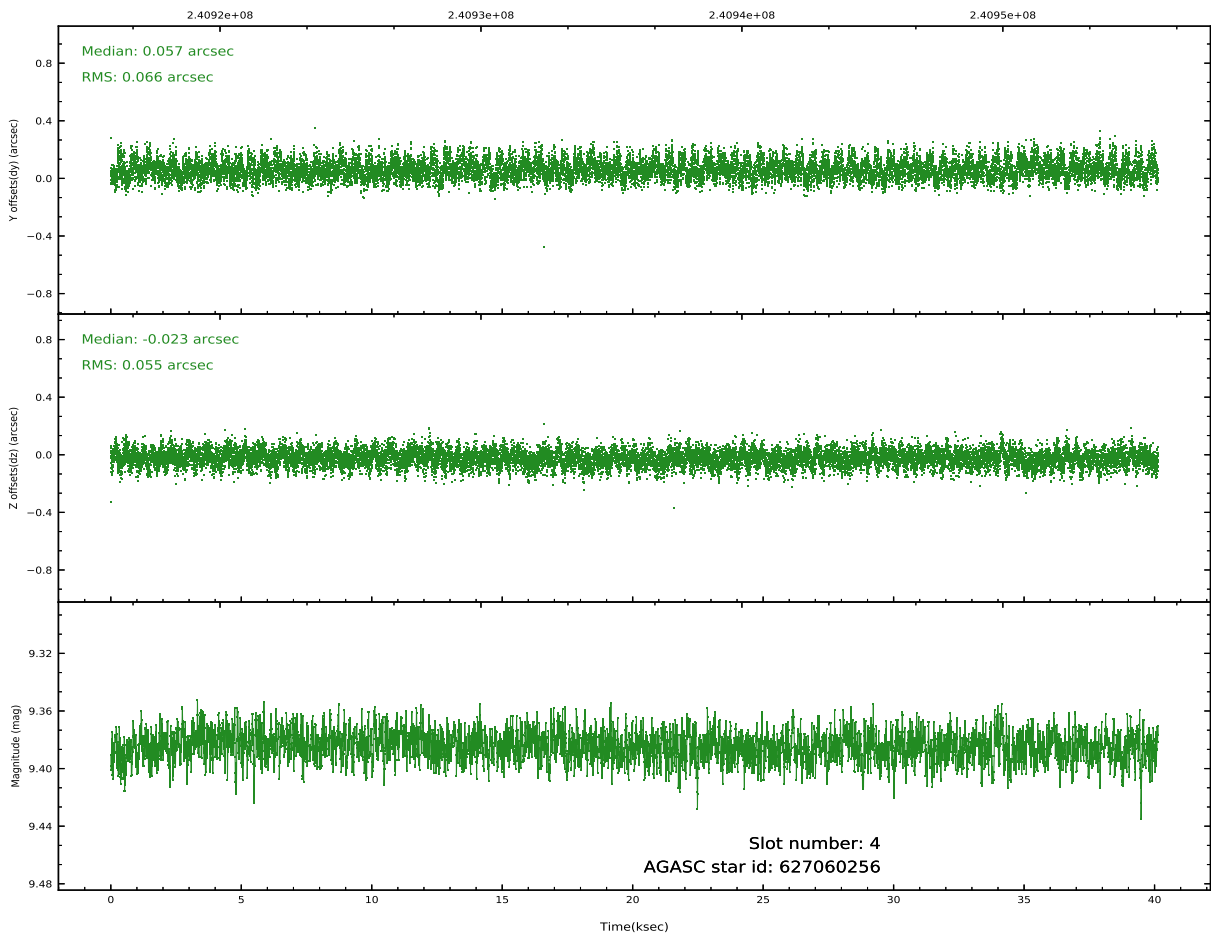
2.4.1 Slot 3



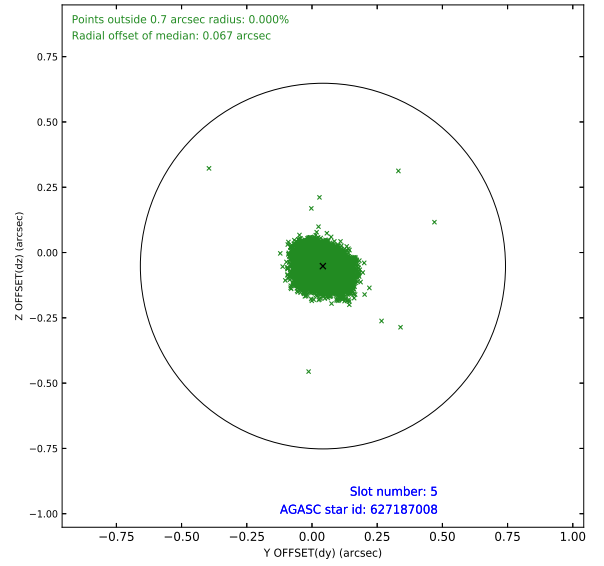
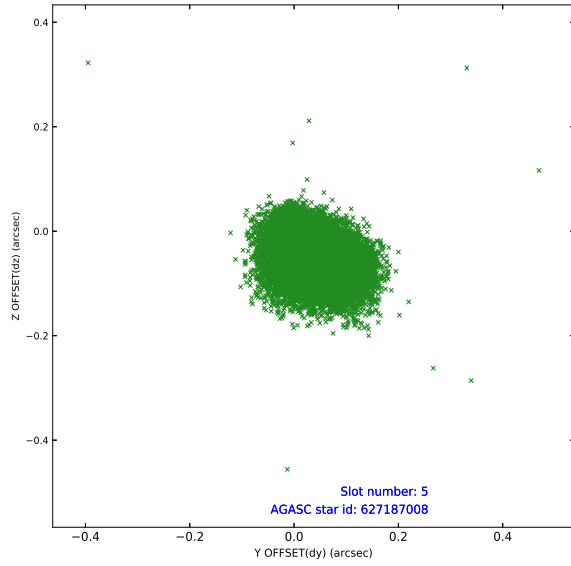
2.4.2 Slot 4



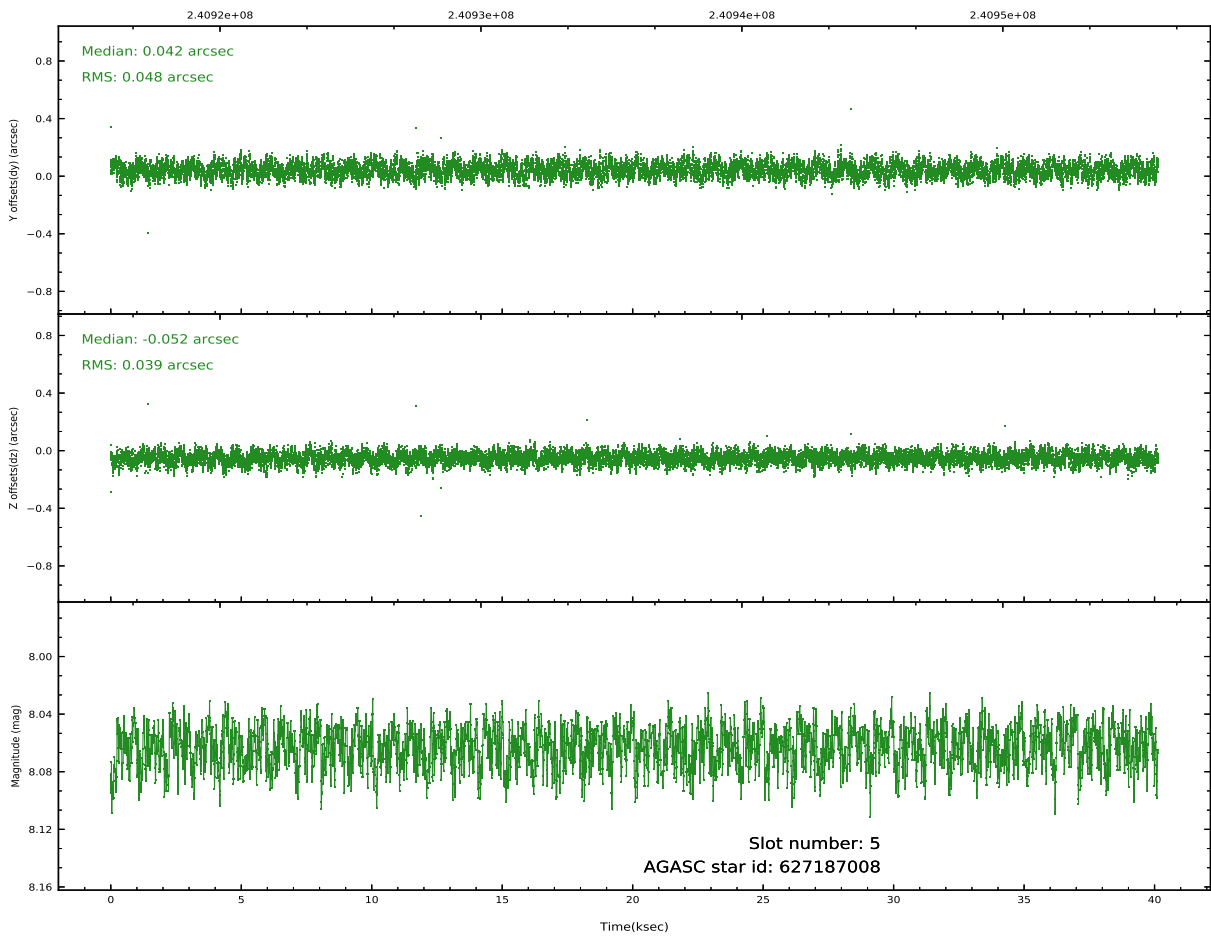
Time (s)



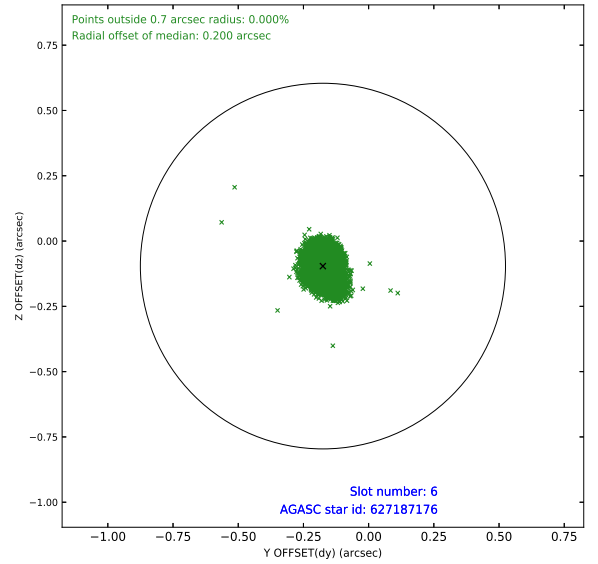
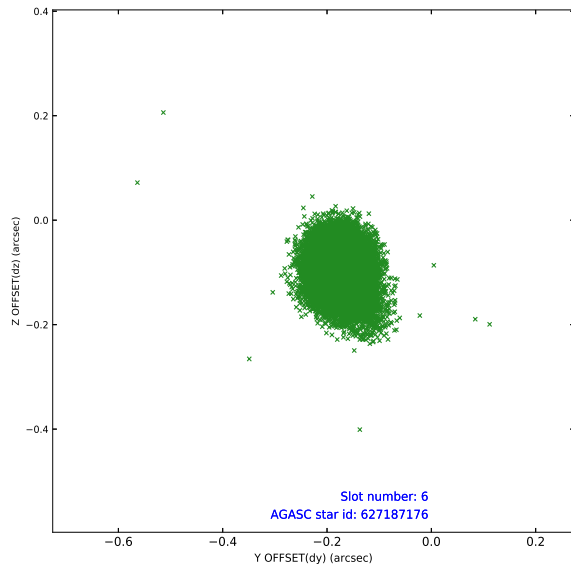
2.4.3 Slot 5



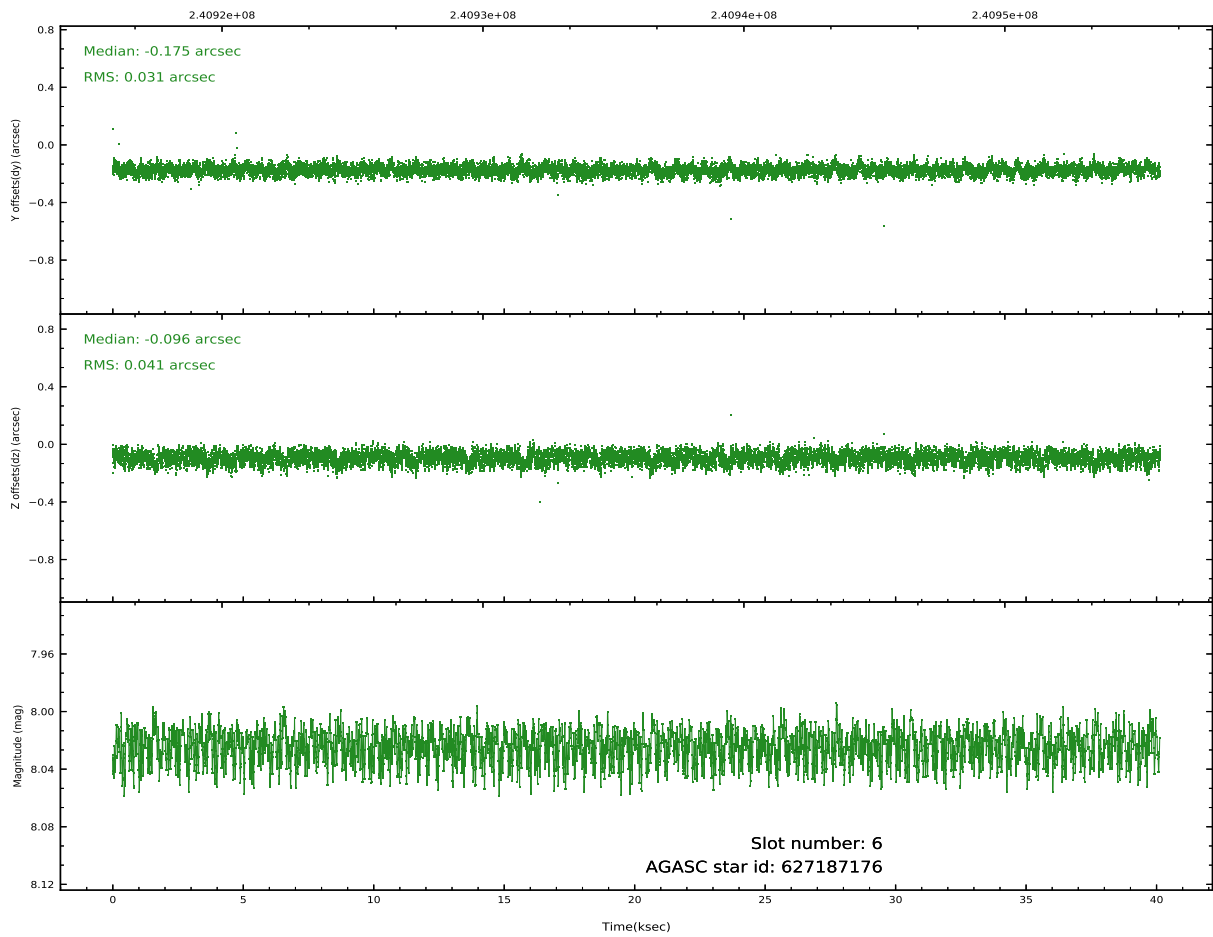
Time (s)



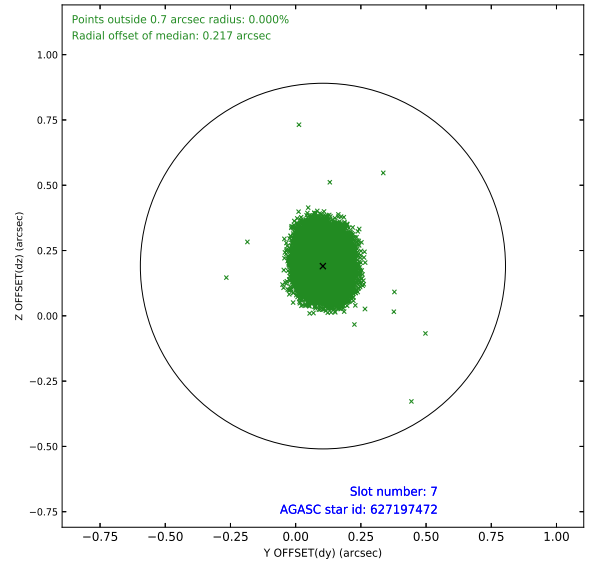
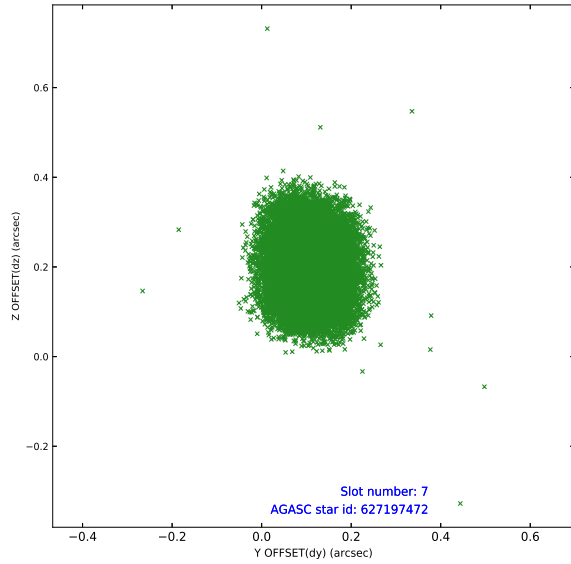
2.4.4 Slot 6



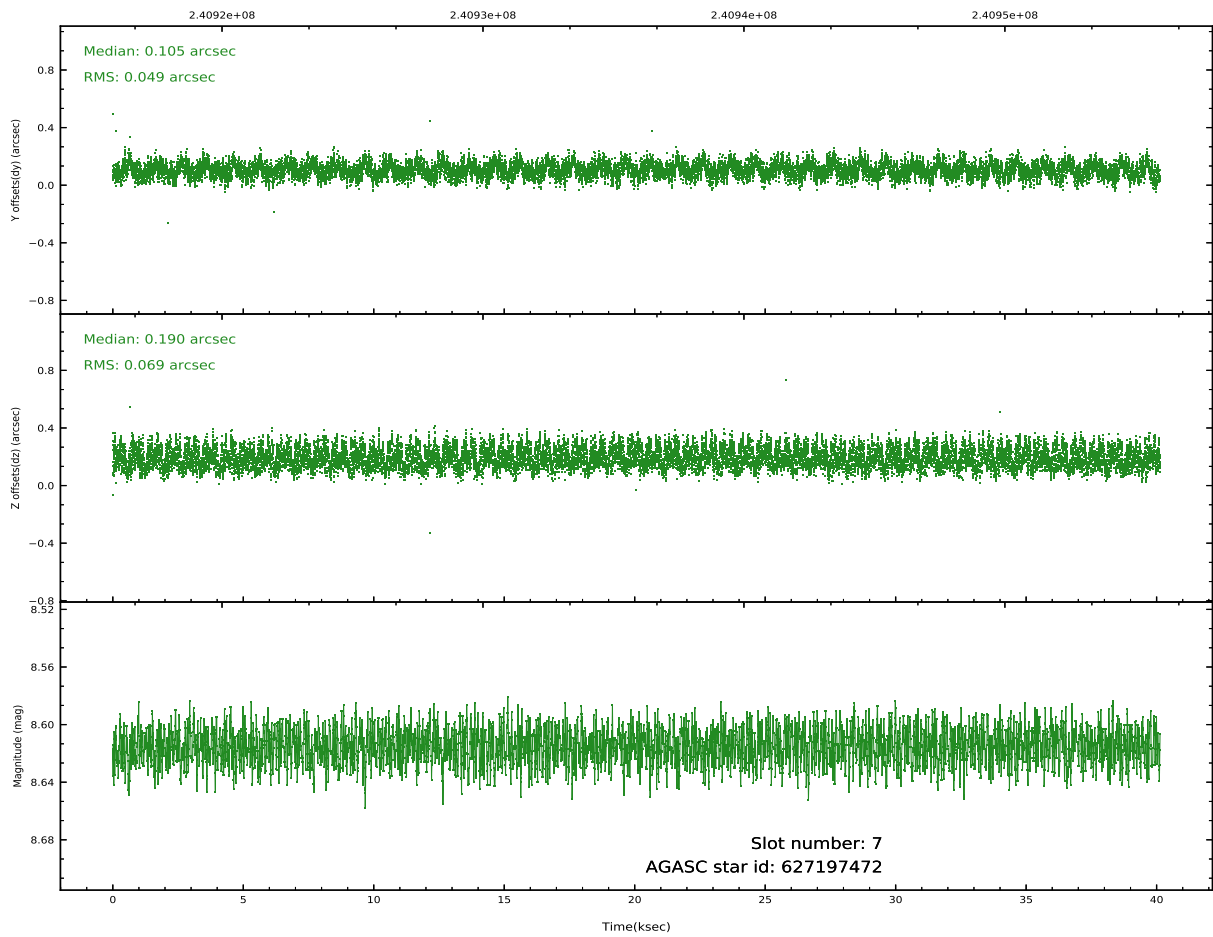
Time (s)



2.4.5 Slot 7

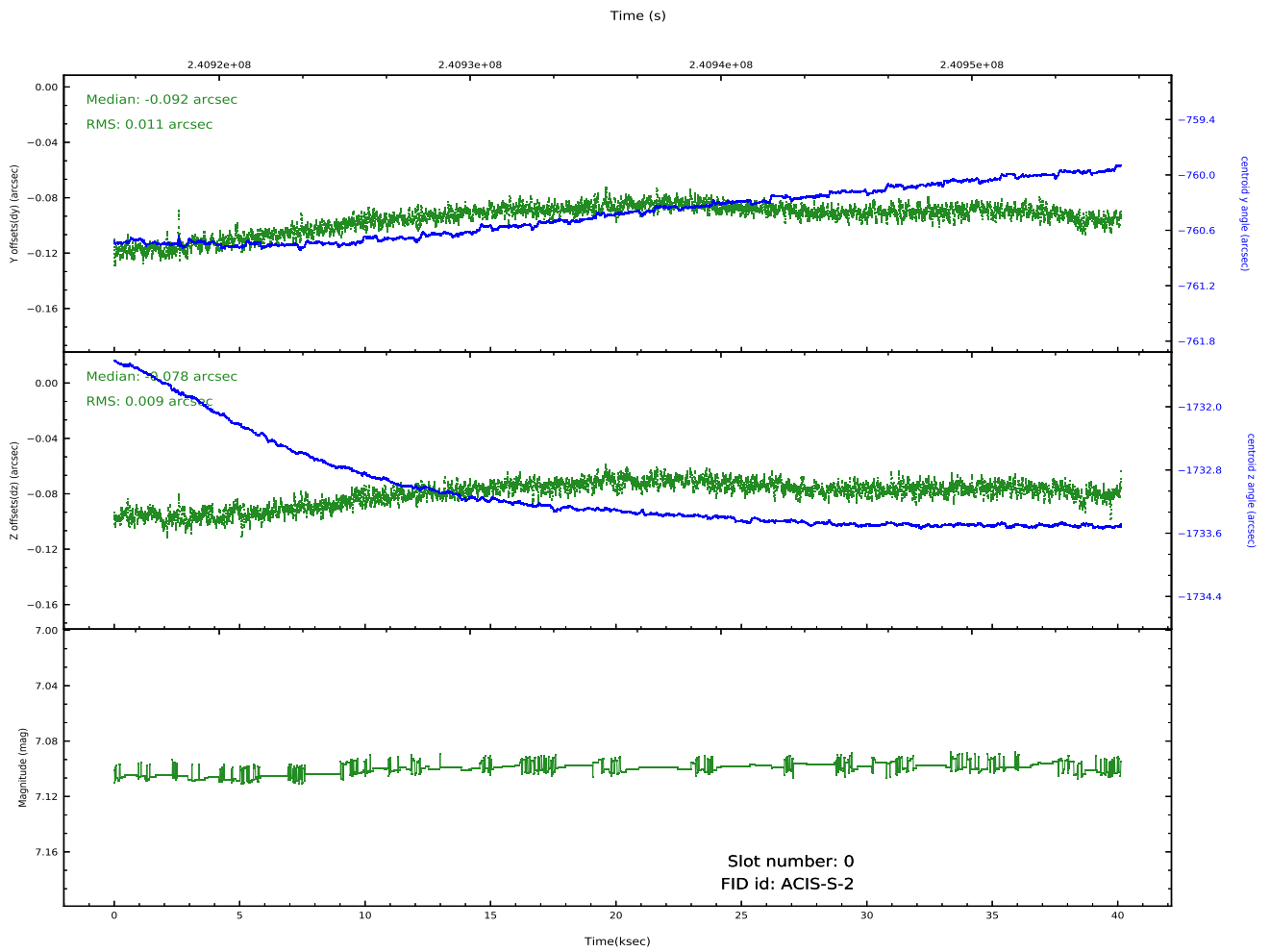
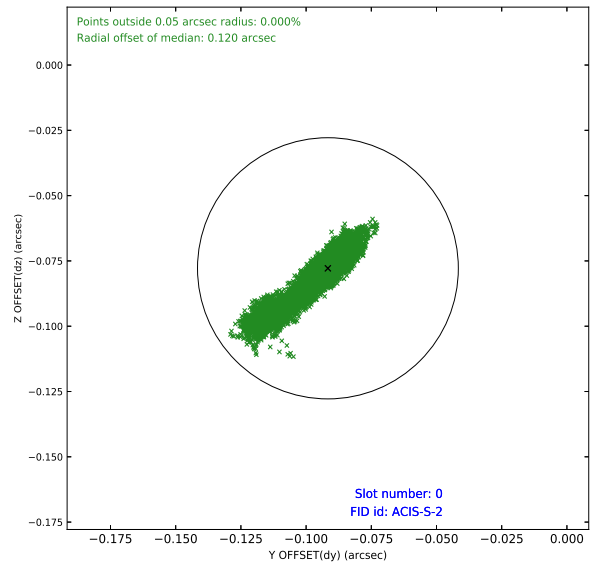
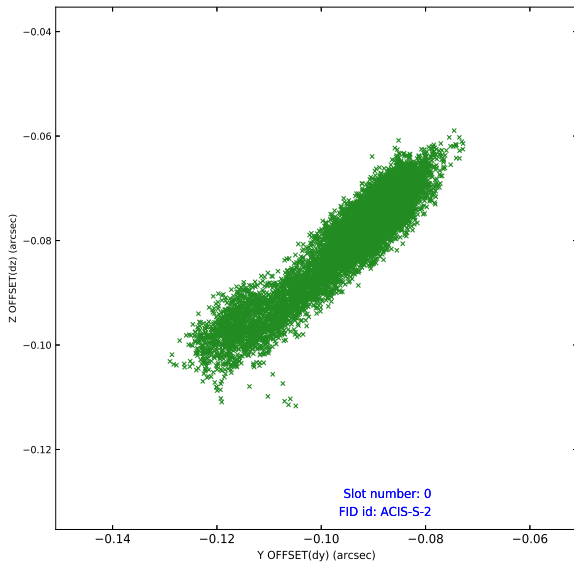


Time (s)

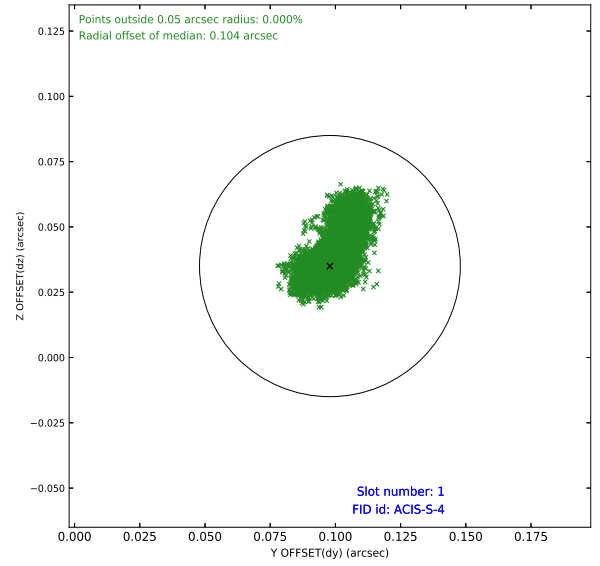
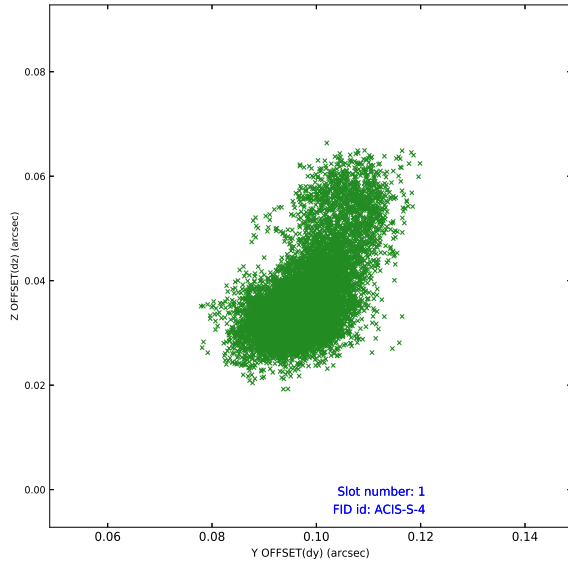


2.5 FID Slots

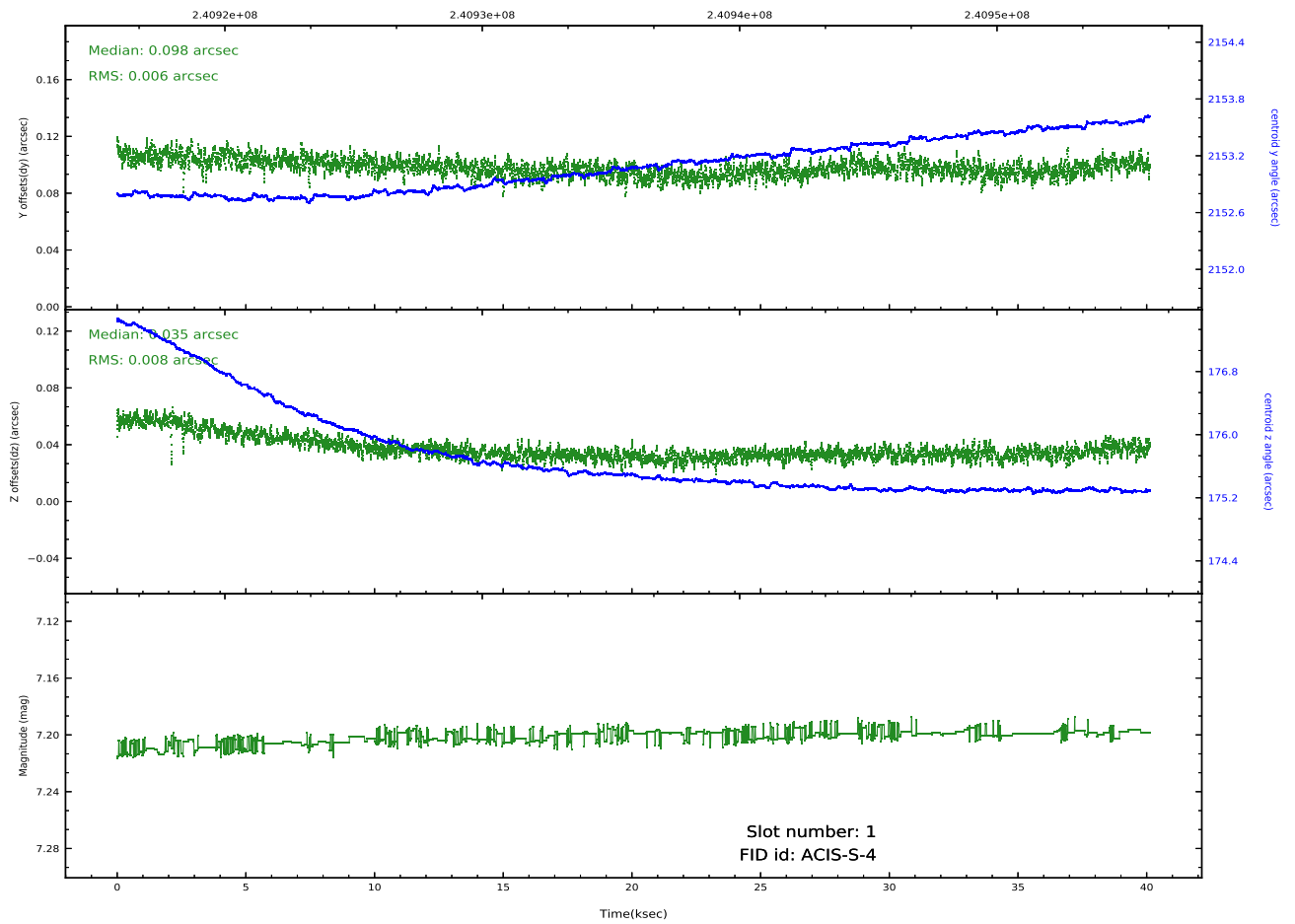
2.5.1 Slot 0



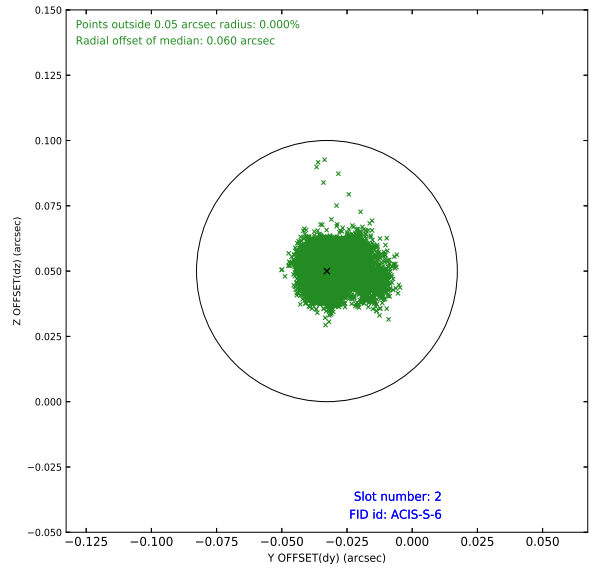
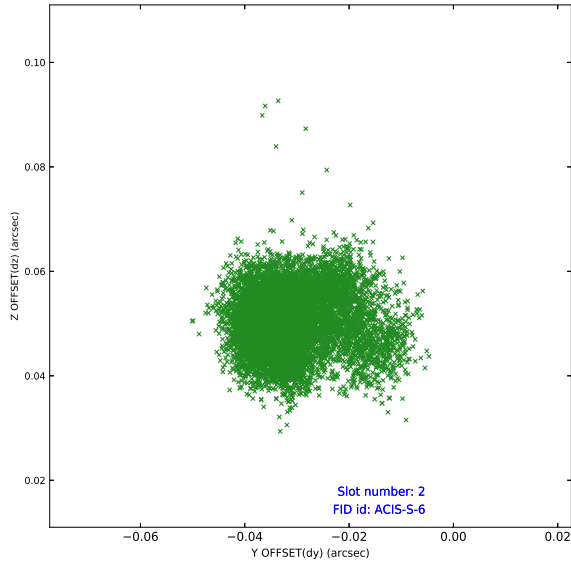
2.5.2 Slot 1



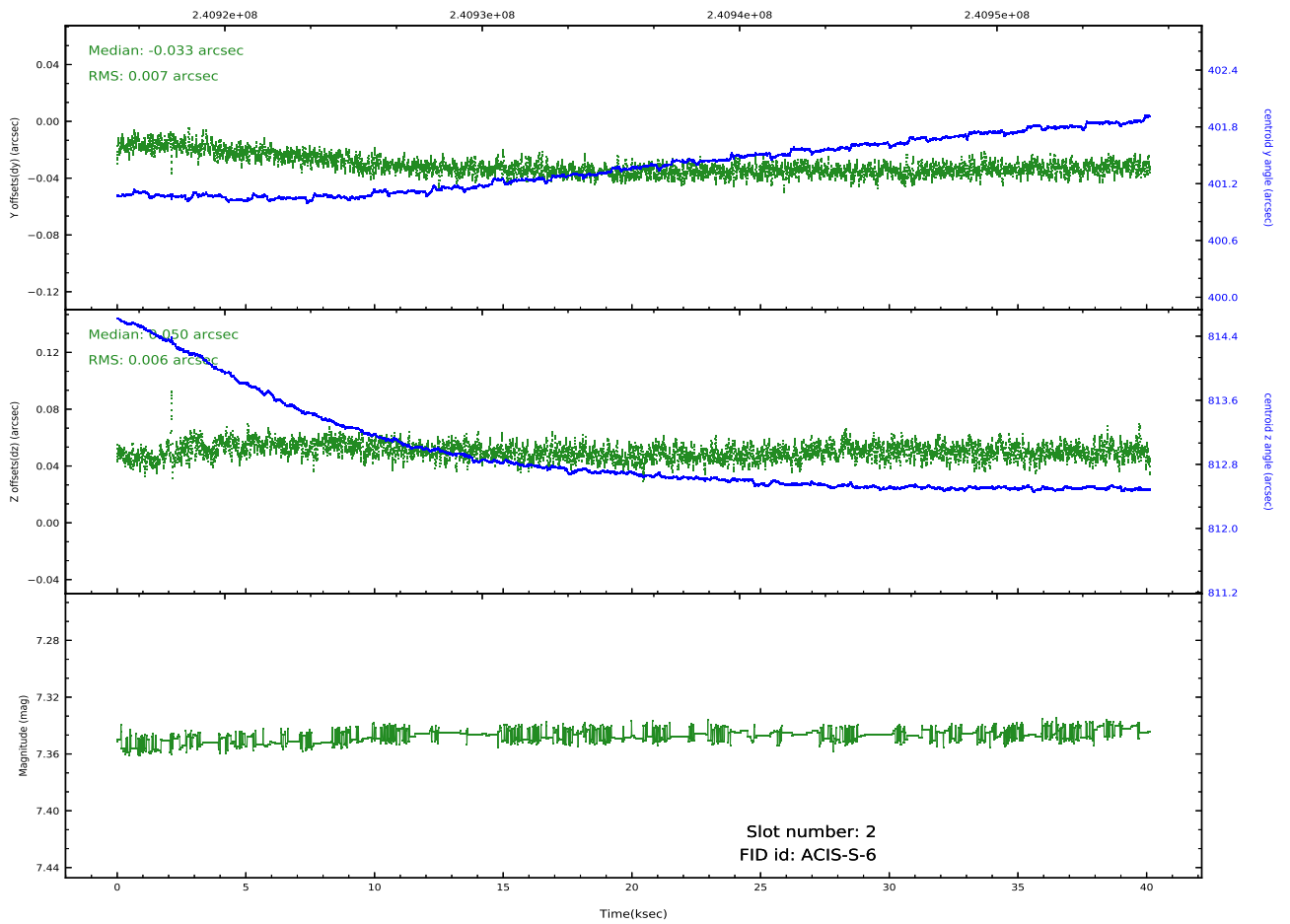
Time (s)



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.13119

A.2 Comments

Joint Proposal: NRAO