

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5536 - L2 Version 4
Chandra X-Ray Center

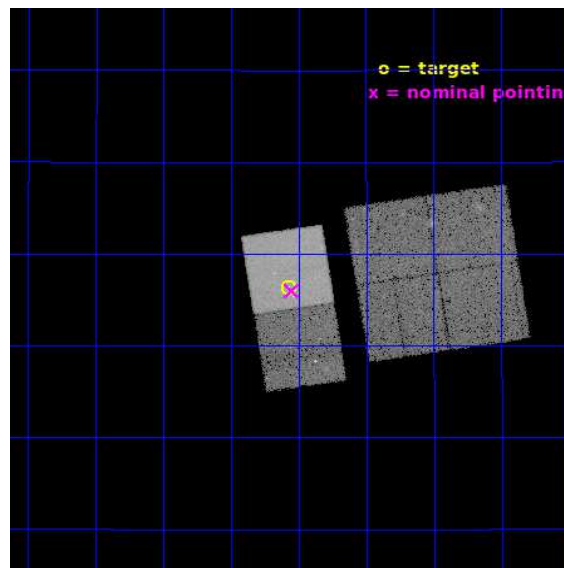
L2 Processing Date : Oct 11 2020

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1 Front

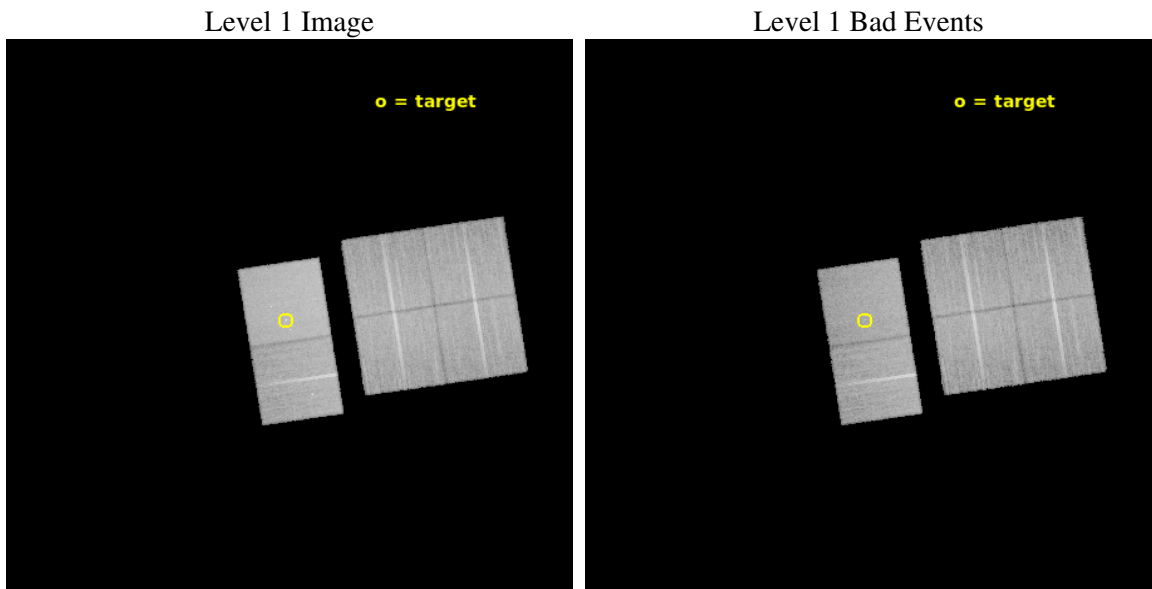
seq_num	500529	Sequence number
obs_id	5536	Observation id
title	Probing the nature of Dark GRBs using Swift and Chandra in Synergy	
observer	Chryssa Kouveliotou	Principal investigator
object	GRB051022	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	359.0183	Observer's specified target RA [deg]
dec_targ	19.6065	Observer's specified target Dec [deg]
ra_nom	359.012104348	Nominal RA [deg]
dec_nom	19.599872695424	Nominal Dec [deg]
roll_nom	261.32176785811	Nominal Roll [deg]
revision	4	Processing version of data
ontime	18963.199929357	Sum of GTIs [s]
livetime	18723.076473583	Livetime [s]
ontime0	18959.958958983	Sum of GTIs [s]
ontime1	18963.199929357	Sum of GTIs [s]
ontime2	18963.199929357	Sum of GTIs [s]
ontime3	18959.958929181	Sum of GTIs [s]
ontime6	18963.199929357	Sum of GTIs [s]
ontime7	18963.199929357	Sum of GTIs [s]
l2events	157727	Number of level 2 events



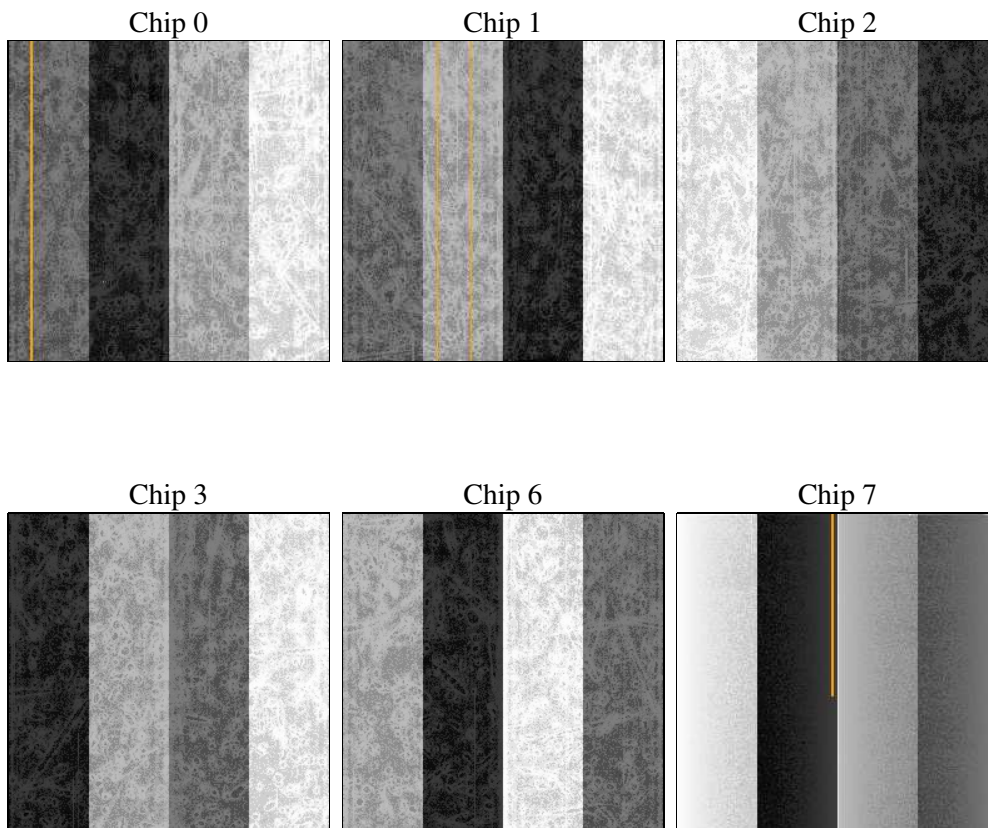
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	18800.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	18963.199929357	Sum of GTIs [s]
caldbver	4.9.2	 	ontime0	18959.958958983	Sum of GTIs [s]
date	2020-10-11T04:07:31	Date and time of file creation	ontime1	18963.199929357	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	18963.199929357	Sum of GTIs [s]
			ontime3	18959.958929181	Sum of GTIs [s]
			ontime6	18963.199929357	Sum of GTIs [s]
			ontime7	18963.199929357	Sum of GTIs [s]
			l1events	992318	Number of level 1 events

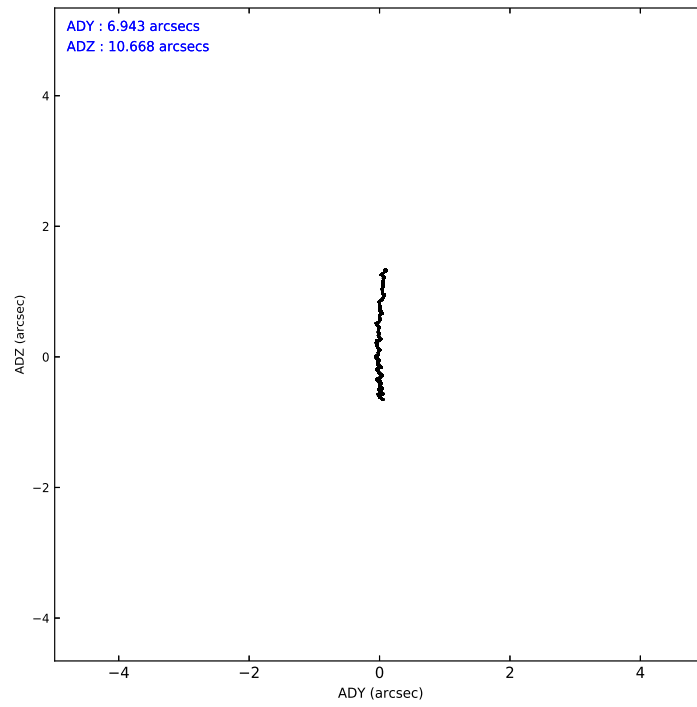
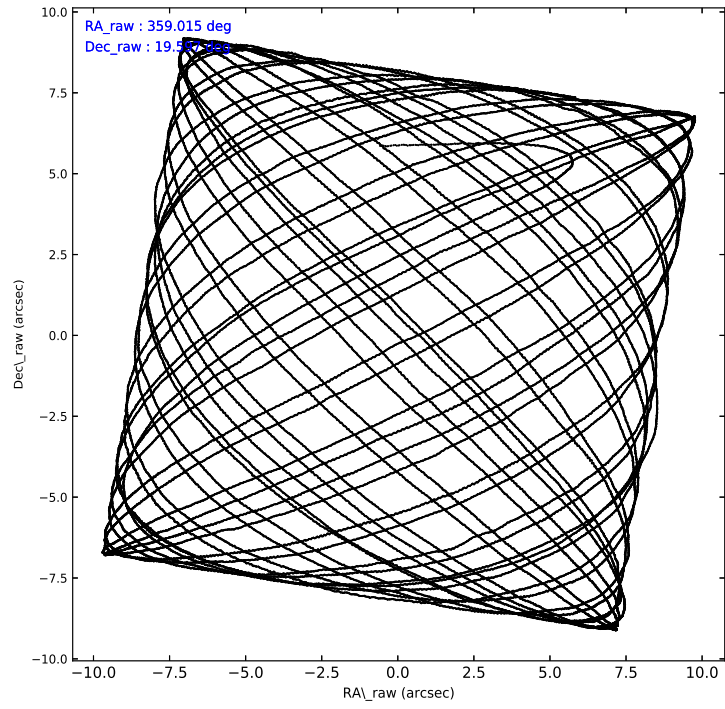
2.1.4 Events

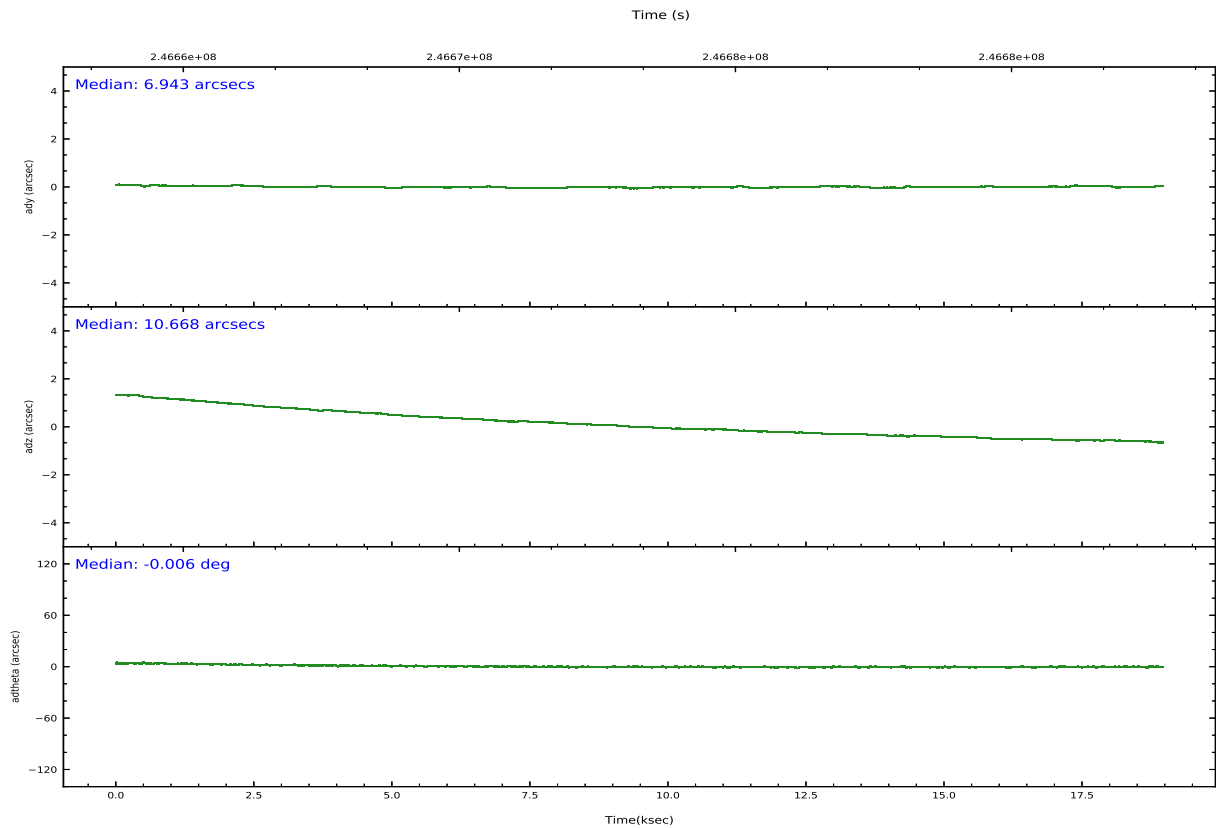
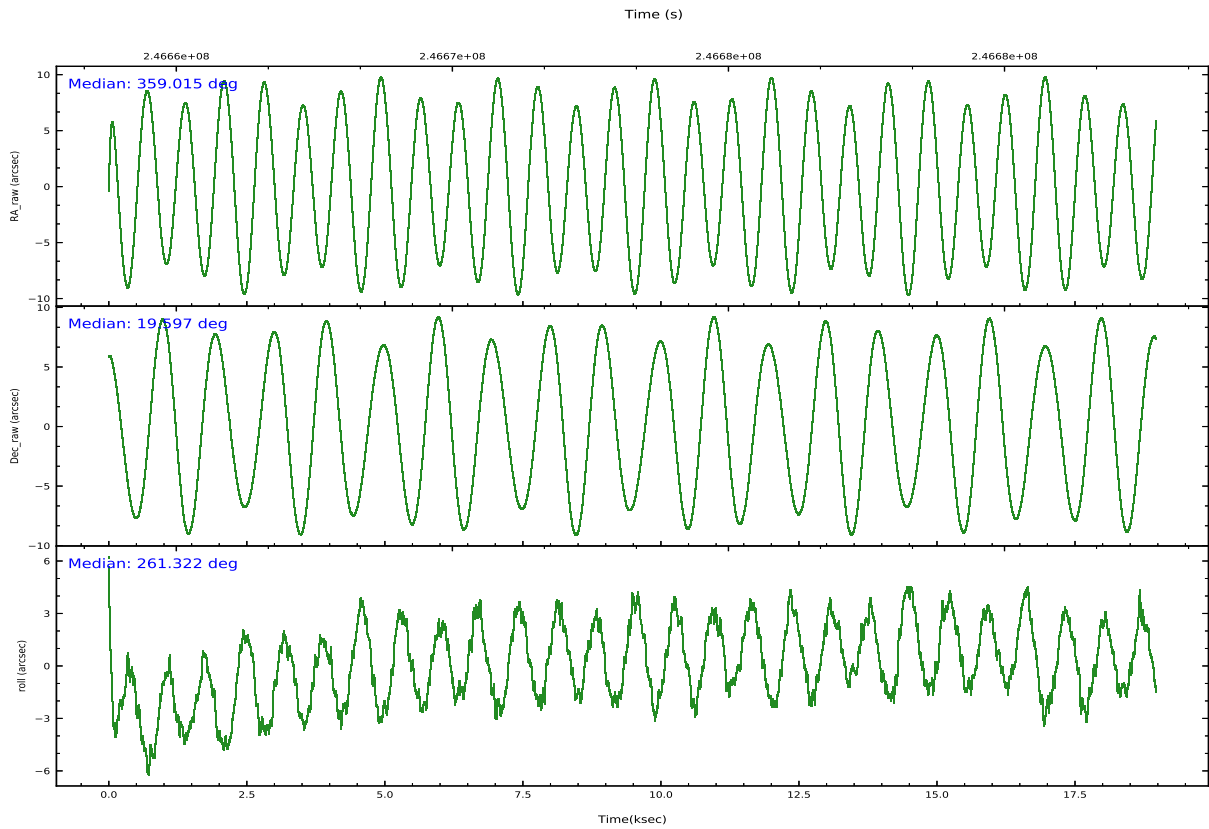
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	150999	147930	158711	151874	163193	219611	grade 0 events	7912	8182	8147	8020	7889	8112
rejected events	133617	129187	141821	134890	145220	135347		5%	5%	5%	5%	4%	3%
rejected %	88%	87%	89%	88%	88%	61%	grade 1 events	93	80	96	84	85	203
								0%	0%	0%	0%	0%	0%
							grade 2 events	4234	4292	3746	3613	4040	18241
								2%	2%	2%	2%	2%	8%
							grade 3 events	1747	1932	1717	1812	1835	8126
								1%	1%	1%	1%	1%	3%
							grade 4 events	1692	1984	1732	1788	1855	7961
								1%	1%	1%	1%	1%	3%
							grade 5 events	6575	6974	6018	7091	7745	21071
								4%	4%	3%	4%	4%	9%
							grade 6 events	3348	3896	3051	3270	3915	48971
								2%	2%	1%	2%	2%	22%
							grade 7 events	125398	120590	134204	126196	135829	106926
								83%	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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	359.004155	359.012104348	Subarray requested	NONE	NONE
[deg] Pointing Dec	19.622606	19.599872695424	Alternating exposures requested	N	N
[deg] Pointing Roll	261.170789	261.32176785811	[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)	246663946.184000	246662060.298			
Observation start date	2005-10-25T21:44:42	2005-10-25T21:14:20			
[s] Observation end time (MET)	246682746.184000	246683711.8865			
Observation end date	2005-10-26T02:58:02	2005-10-26T03:15:11			
Read mode	TIMED	TIMED			

2.3 Aspect





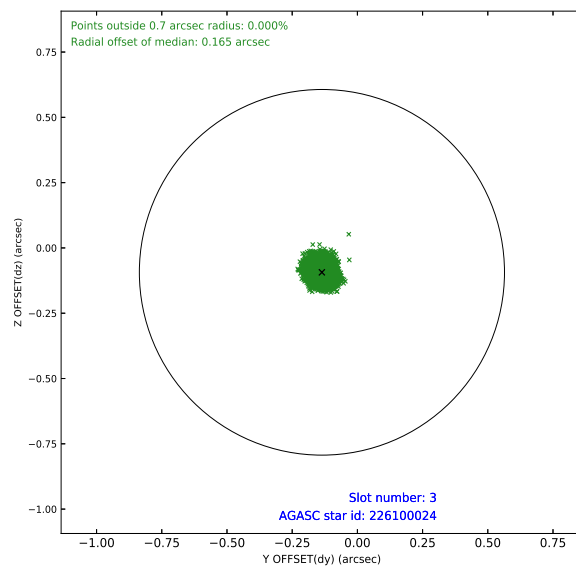
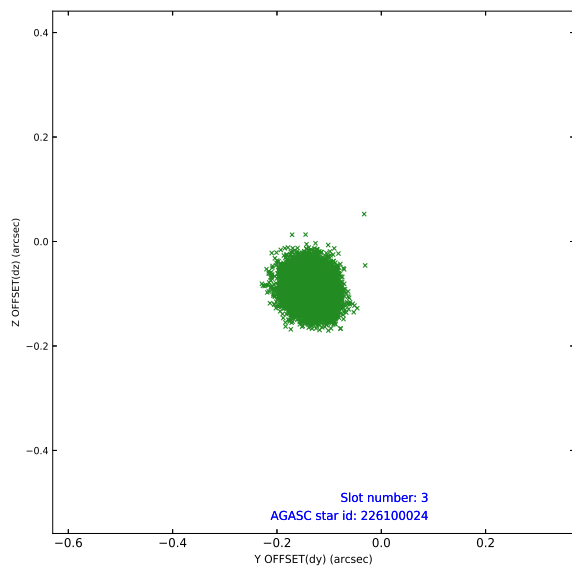
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.11	4627	1.000	-0.090	-0.066	0.010	0.023	0.000000	0.000000	-759.72	-1732
1	FID		ACIS-S-4	7.21	4627	1.000	0.159	0.061	0.009	0.018	0.000000	0.000000	2153.64	176
2	FID		ACIS-S-5	7.23	4626	1.000	-0.101	0.014	0.008	0.016	0.000000	0.000000	-1812.38	170
3	GUIDE	used	226100024	6.58	9254	1.000	-0.136	-0.093	0.039	0.062	359.579415	19.693550	-555.08	1887
4	GUIDE	used	226104024	9.06	9249	1.000	0.021	0.152	0.068	0.110	359.015645	19.855655	-834.55	-90
5	GUIDE	used	226108032	9.04	9254	1.000	0.151	0.017	0.082	0.136	358.713729	19.207011	1629.69	-745
6	GUIDE	used	226115072	9.19	9245	1.000	0.083	-0.033	0.078	0.125	358.677872	19.048080	2213.91	-779
7	GUIDE	used	226111456	8.03	9253	1.000	-0.119	-0.044	0.053	0.086	358.266878	19.556240	615.37	-2435

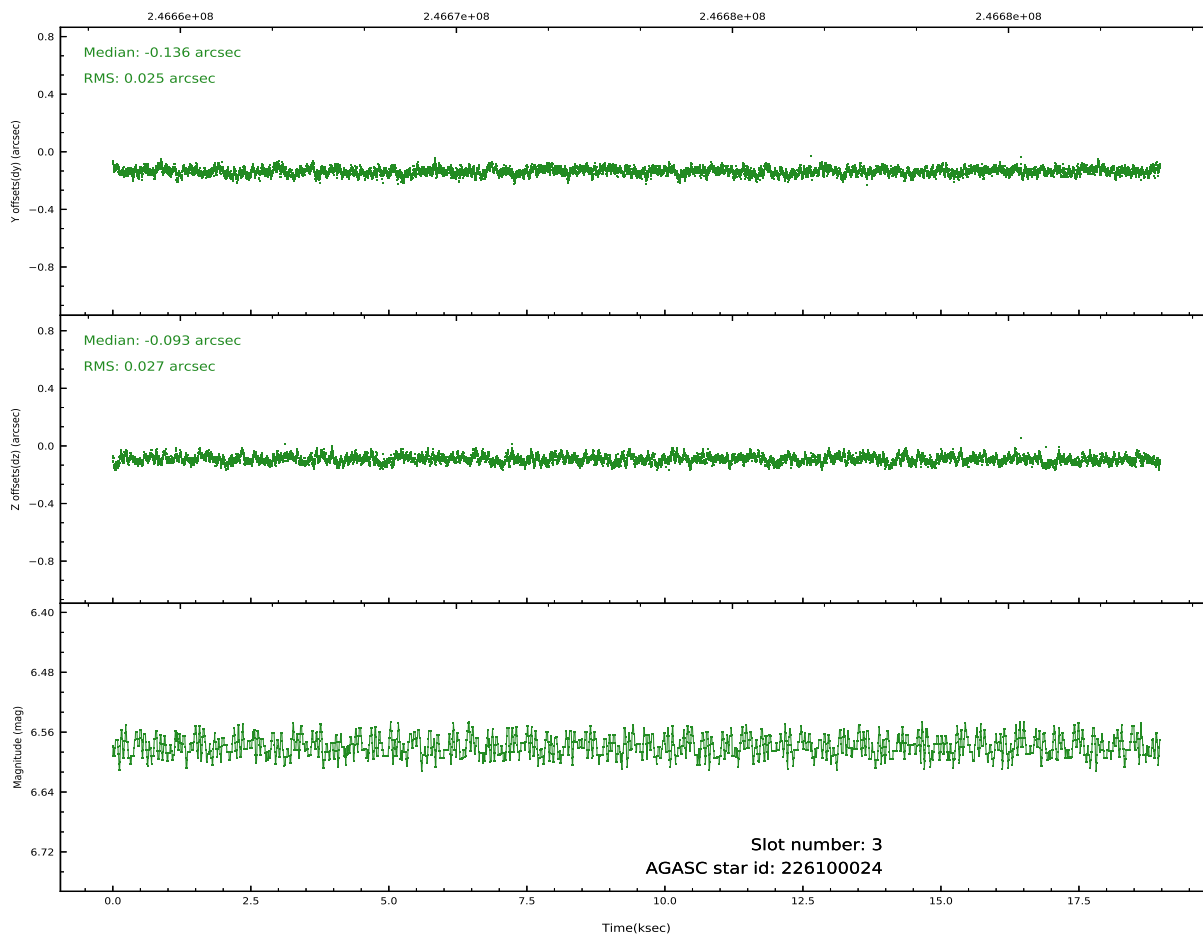
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2.4 Star Slots

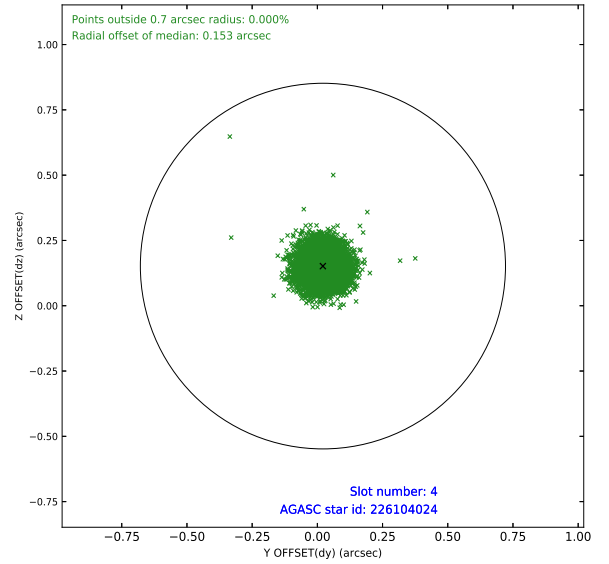
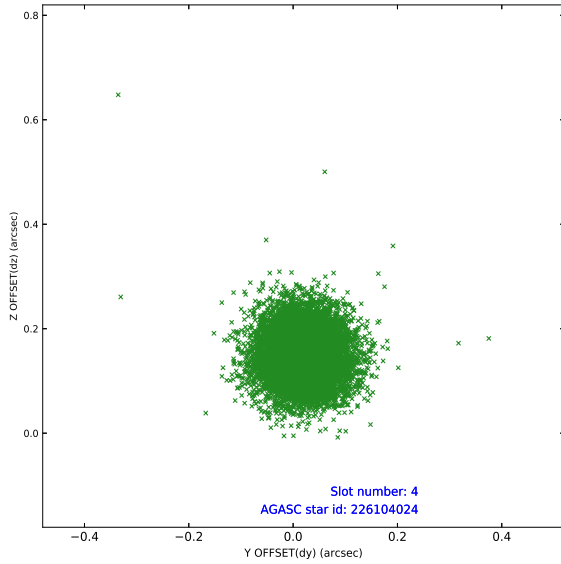
2.4.1 Slot 3



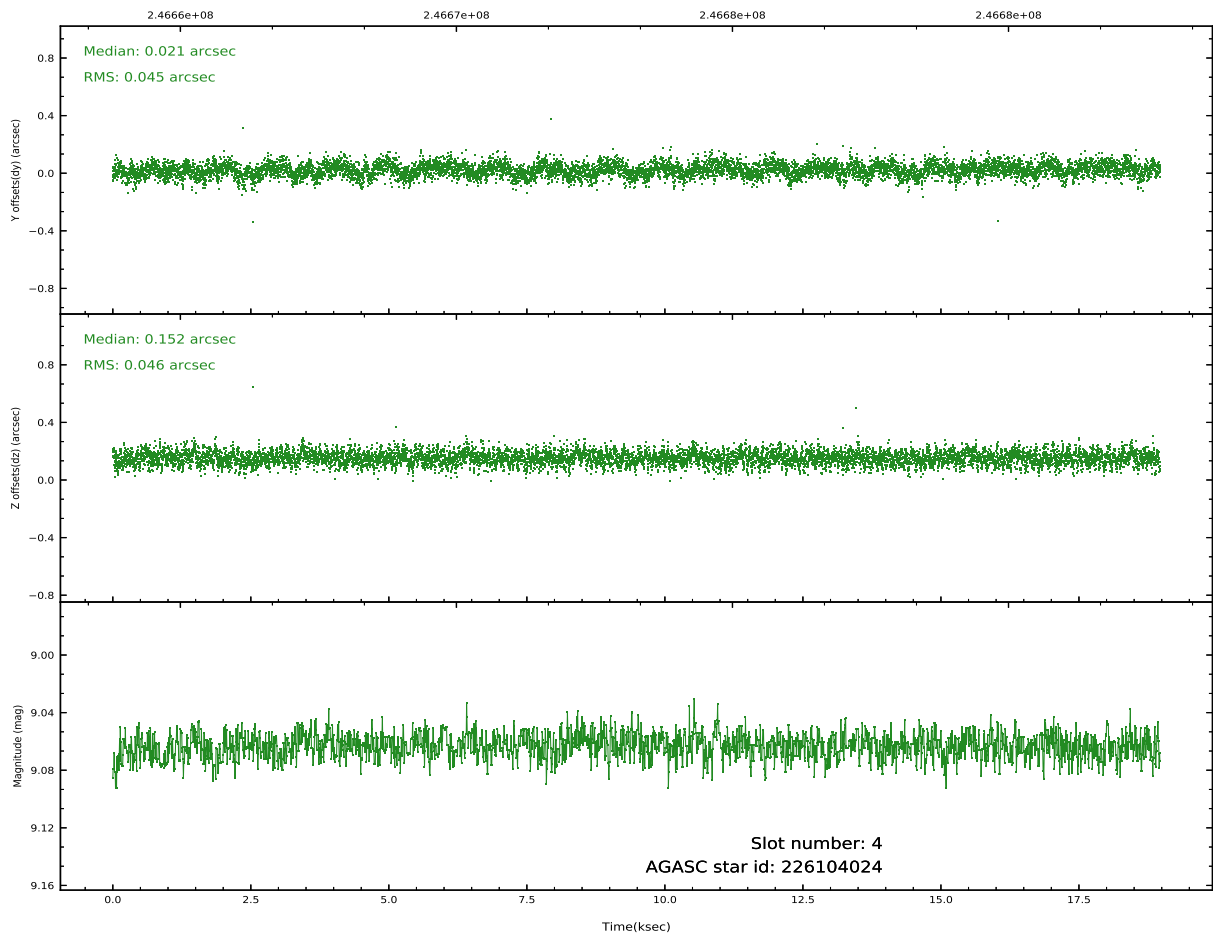
Time (s)



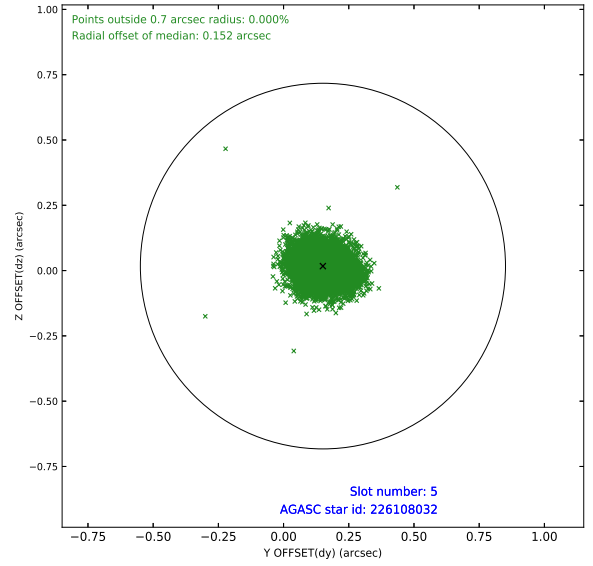
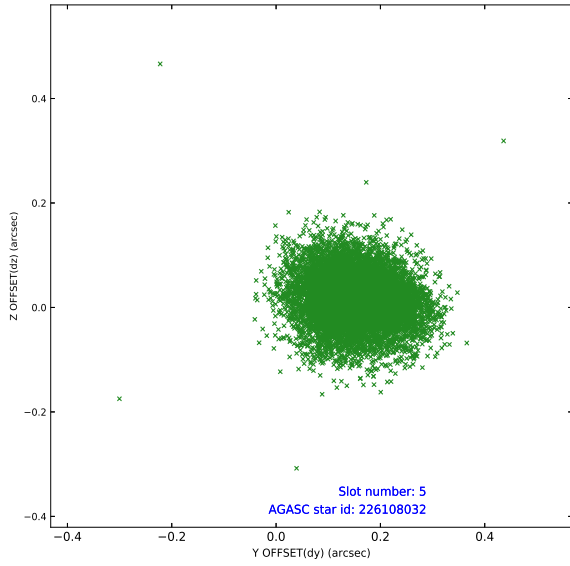
2.4.2 Slot 4



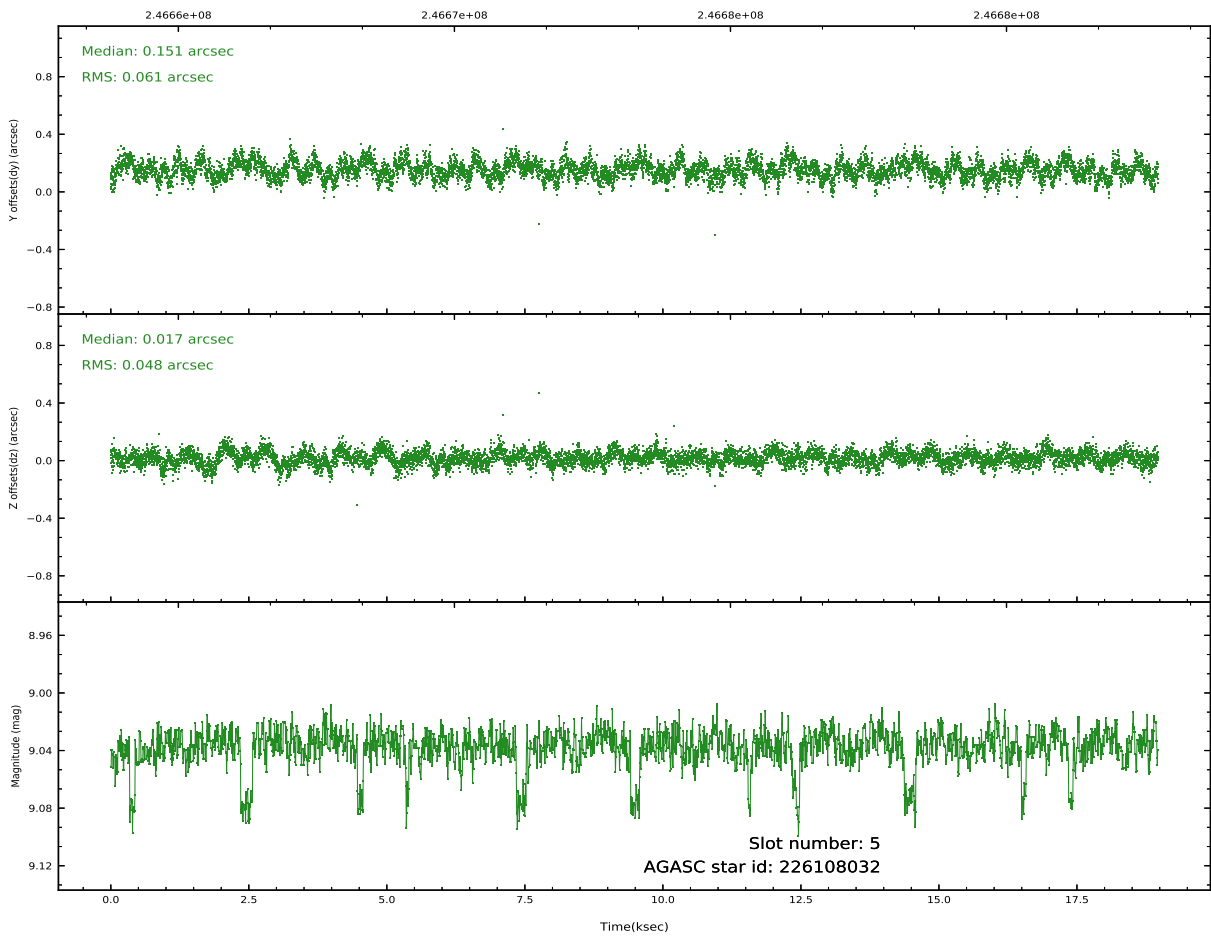
Time (s)



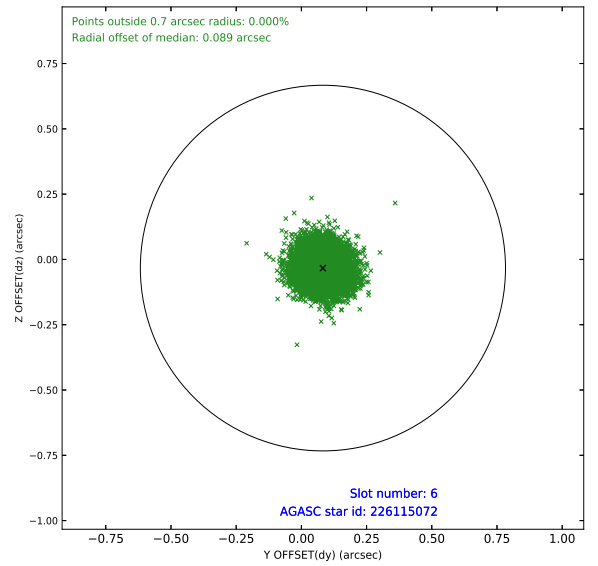
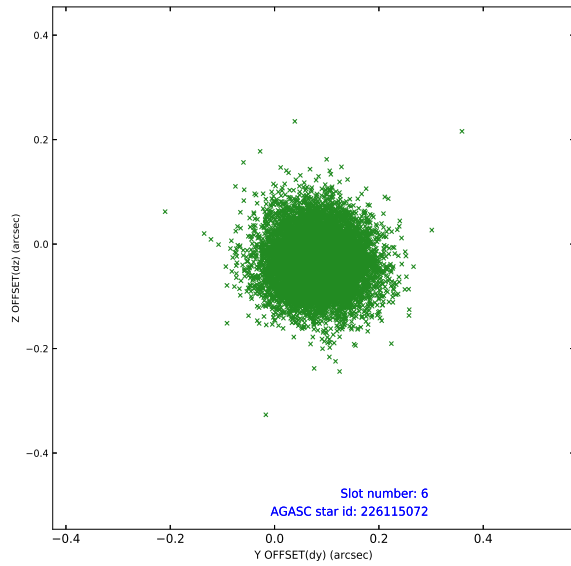
2.4.3 Slot 5



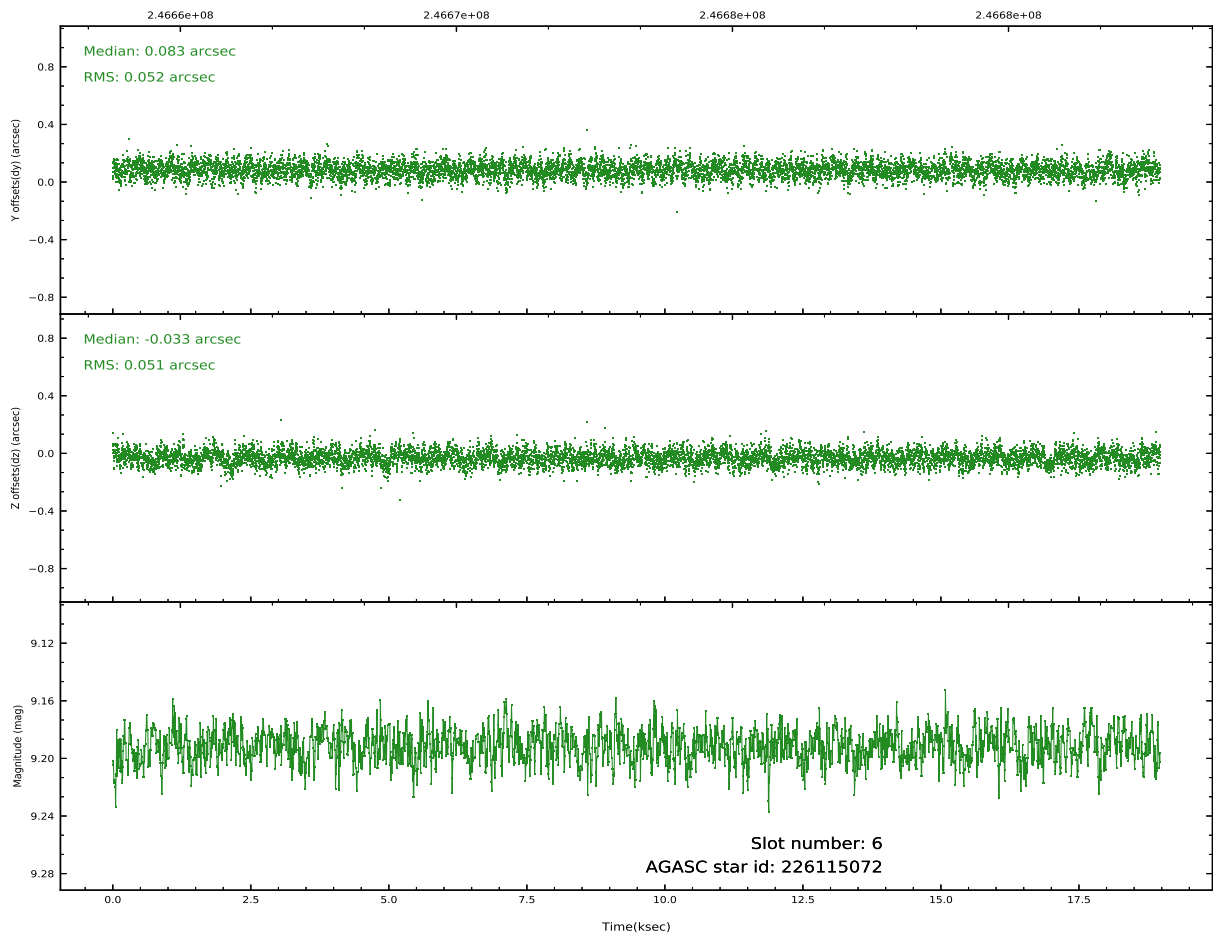
Time (s)



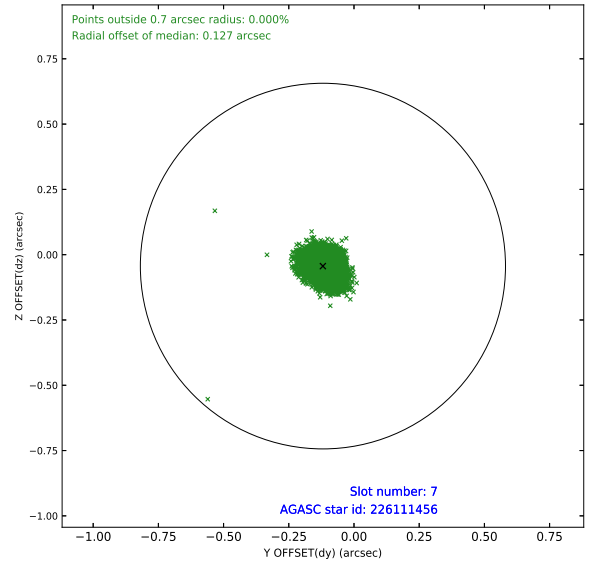
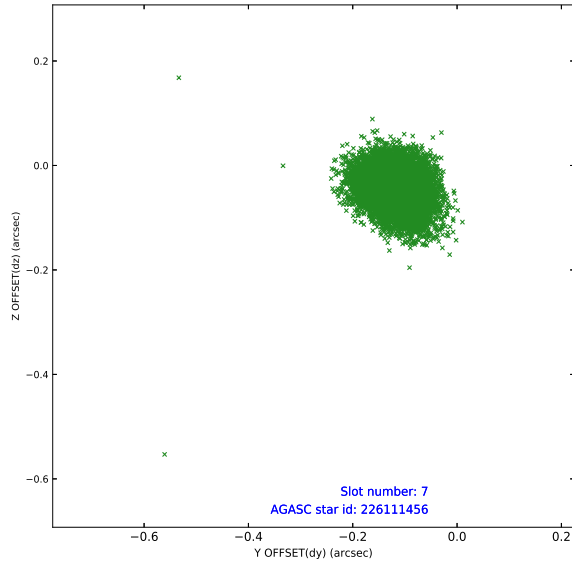
2.4.4 Slot 6



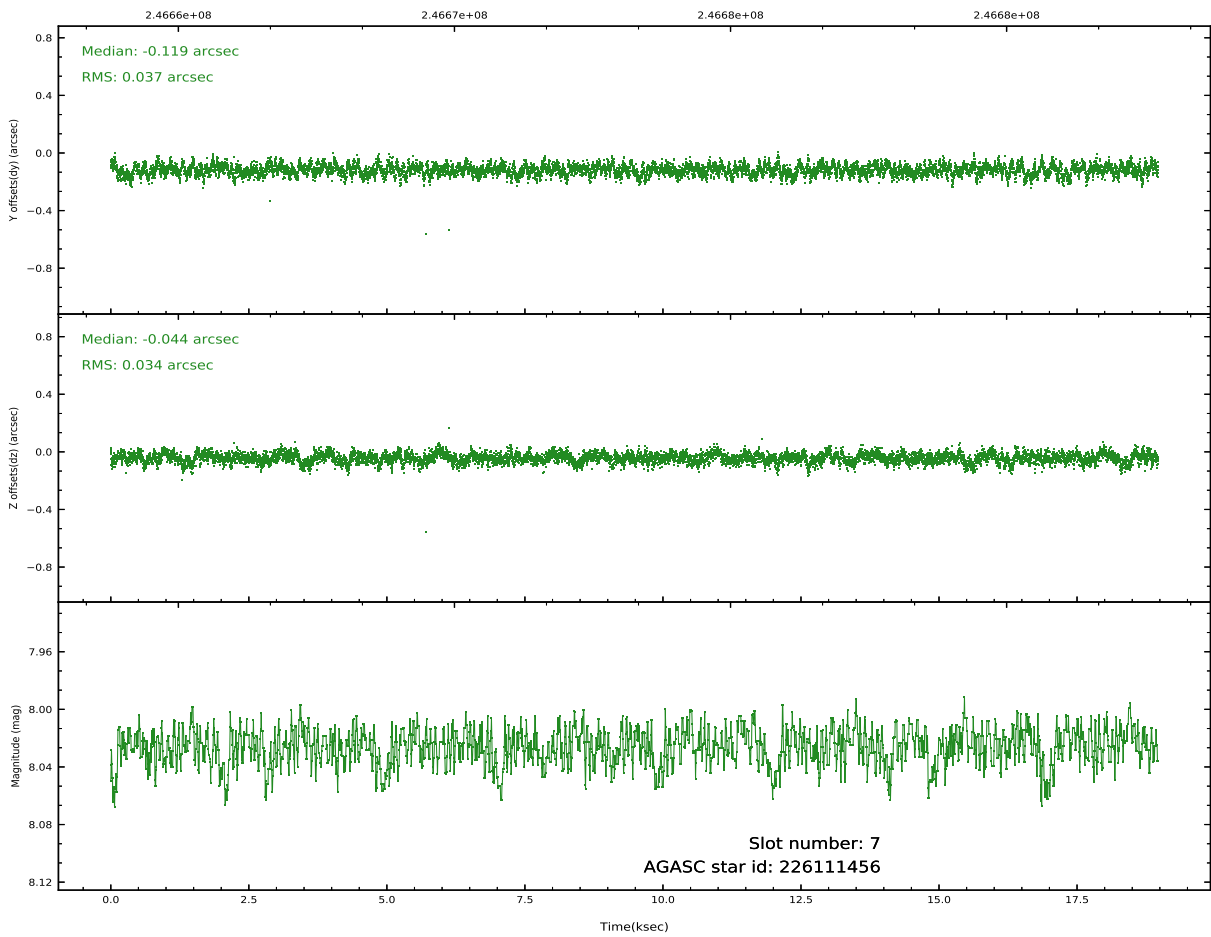
Time (s)



2.4.5 Slot 7

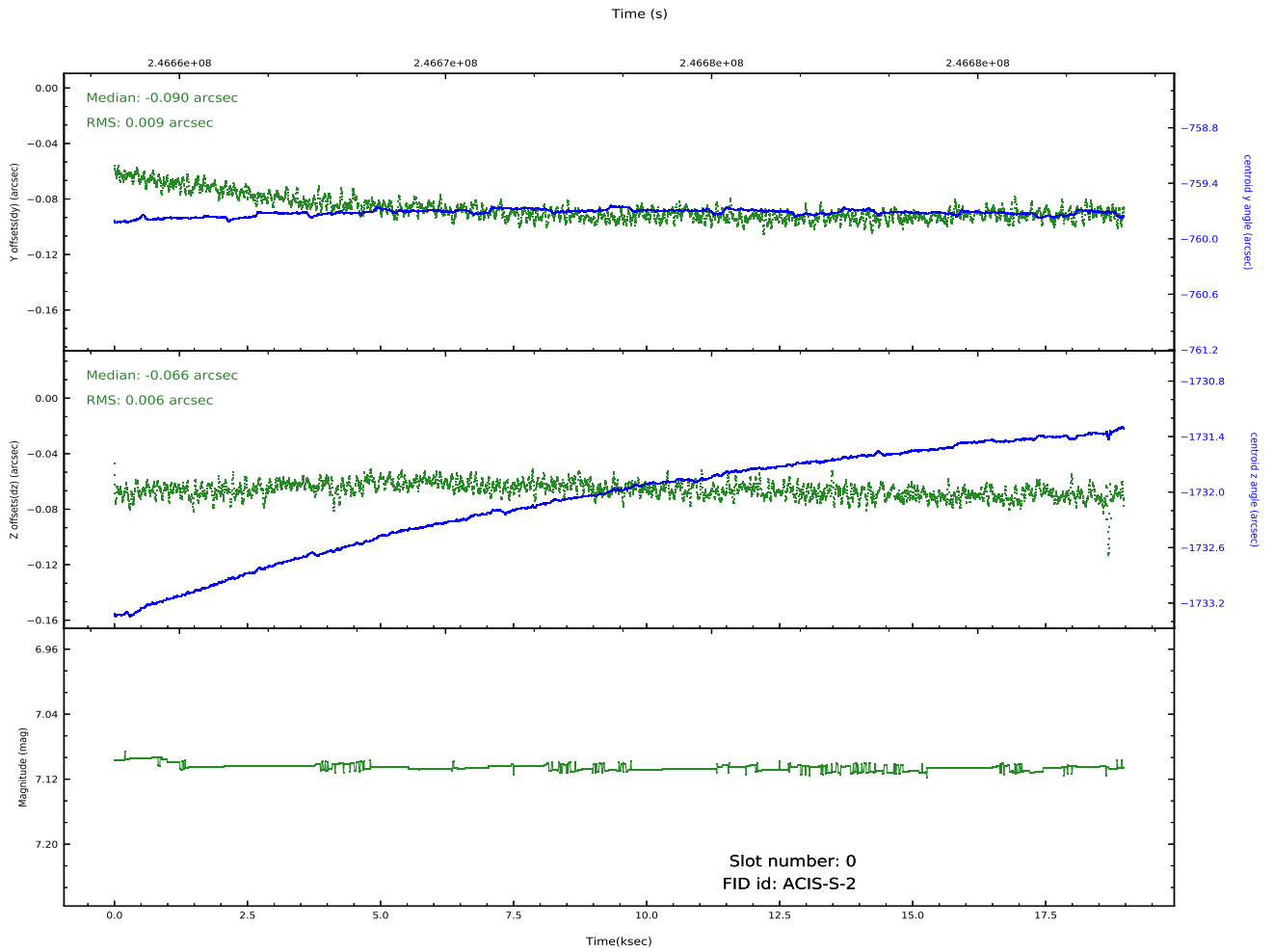
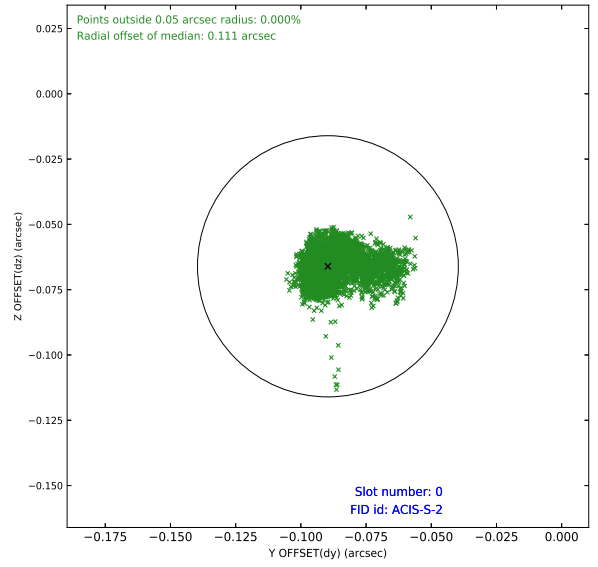
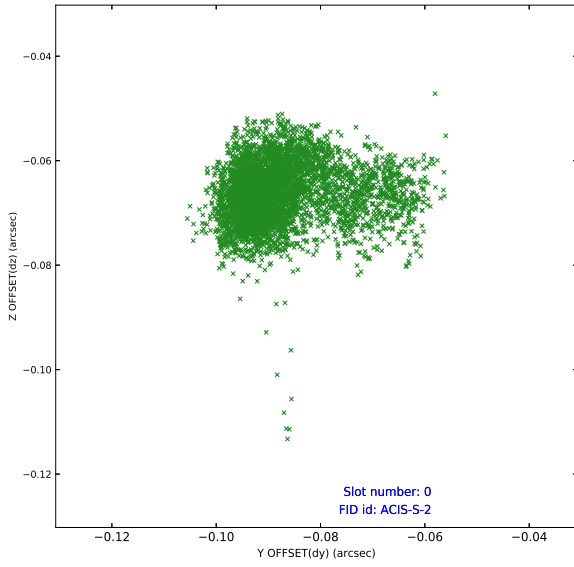


Time (s)

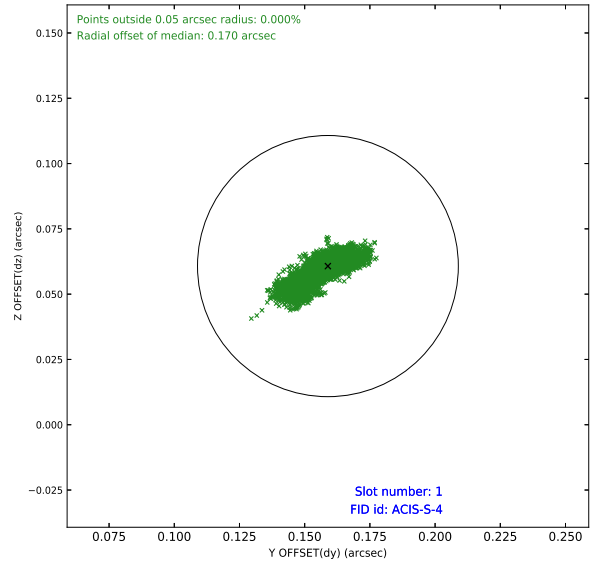
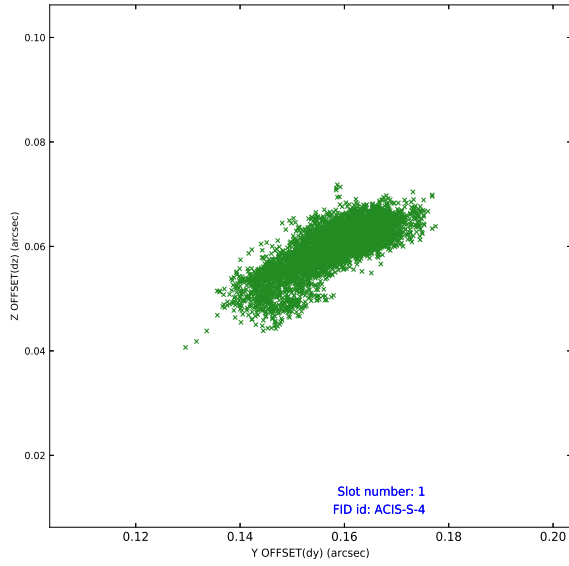


2.5 FID Slots

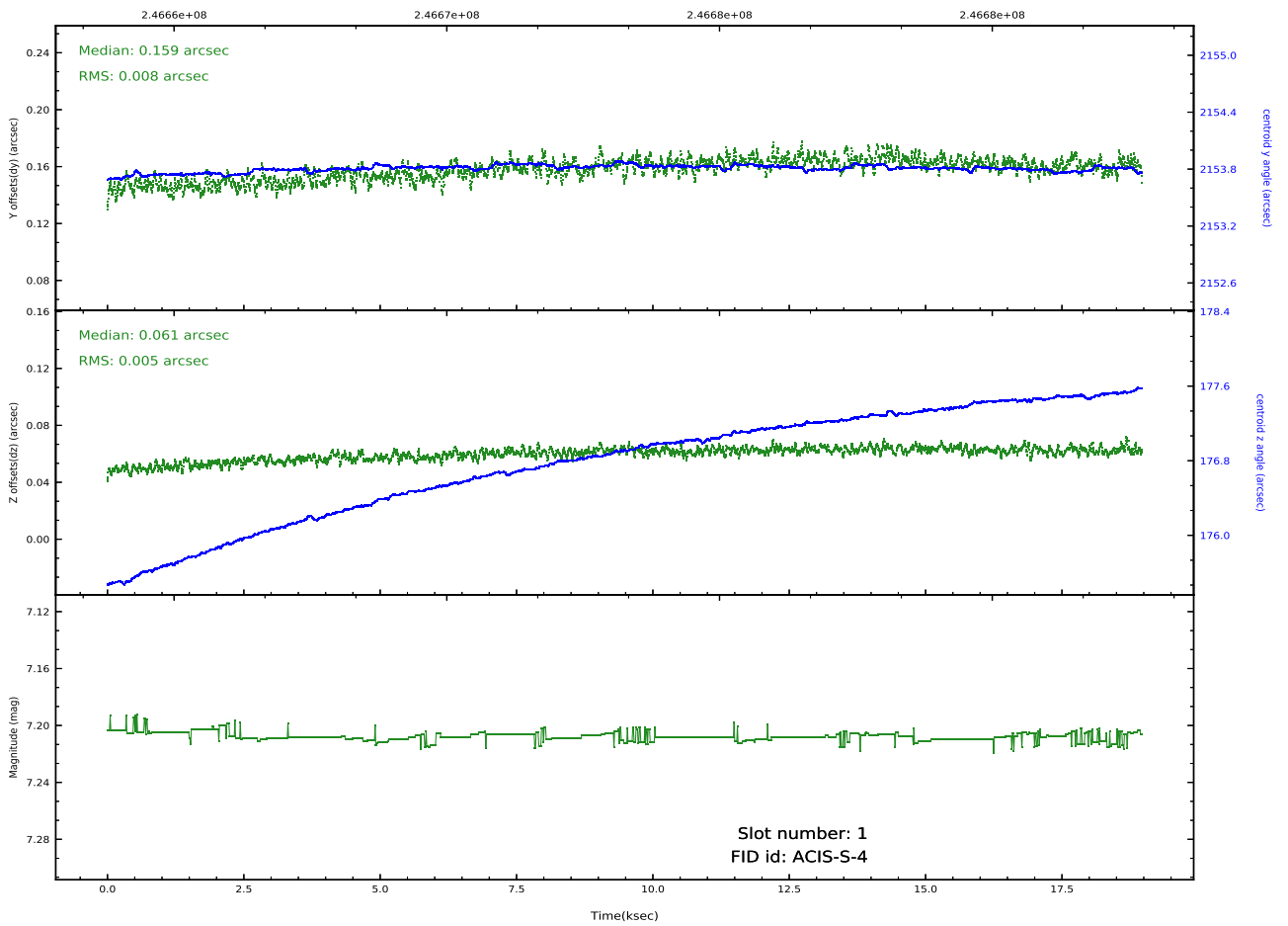
2.5.1 Slot 0



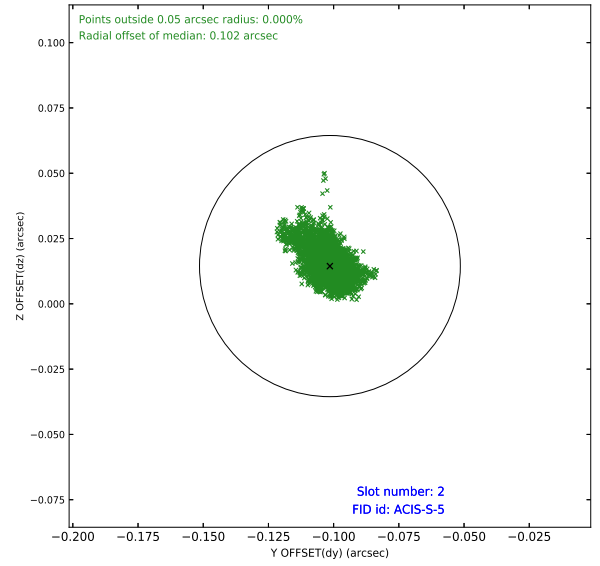
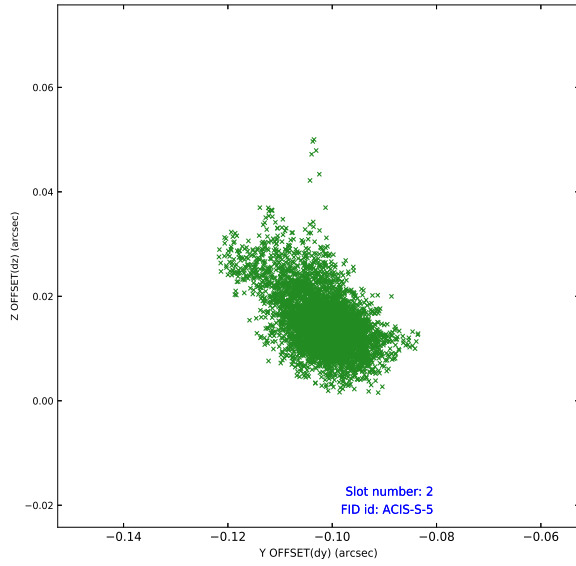
2.5.2 Slot 1



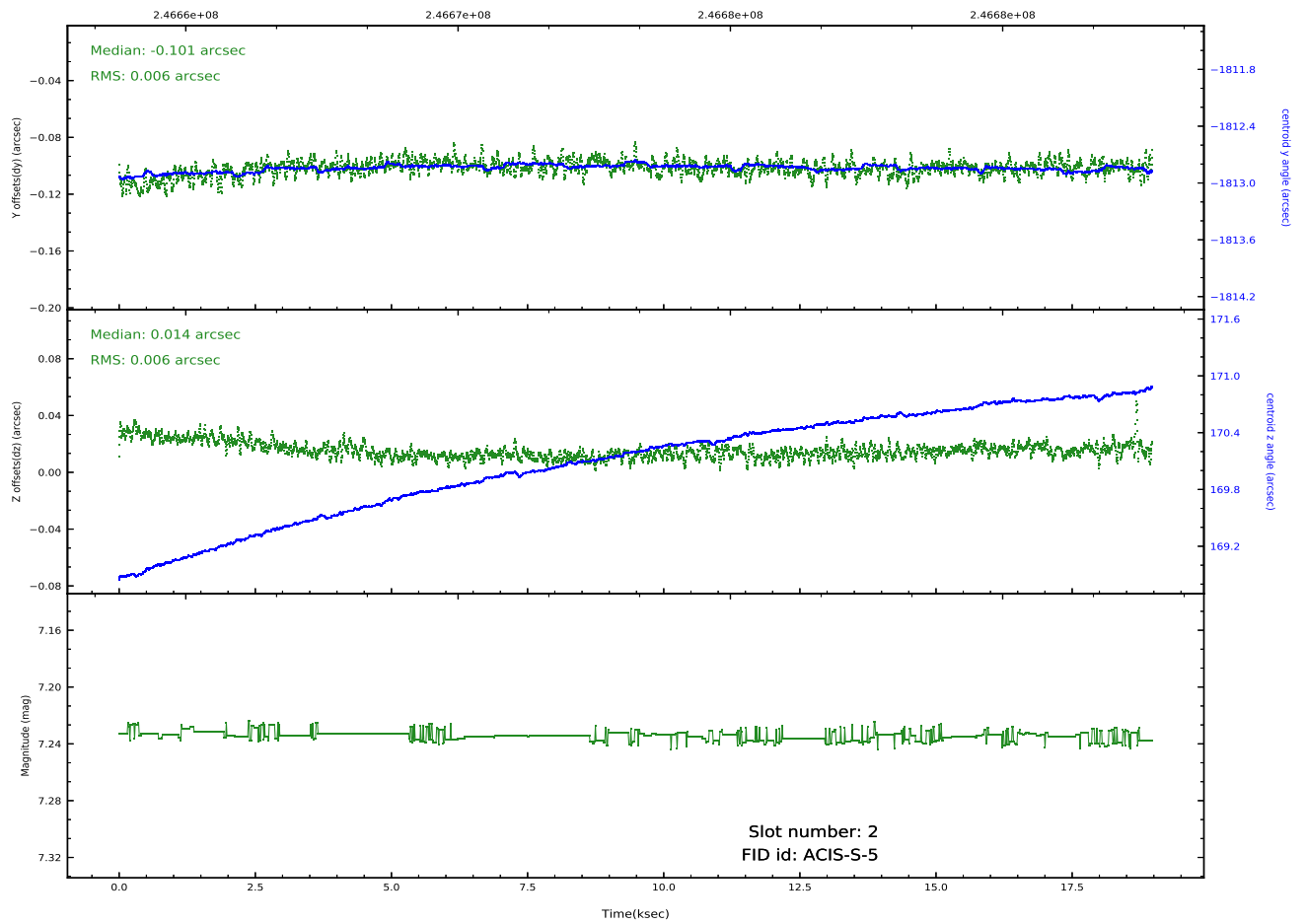
Time (s)



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	18.96319

A.2 Comments