

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6131 - L2 Version 4
Chandra X-Ray Center

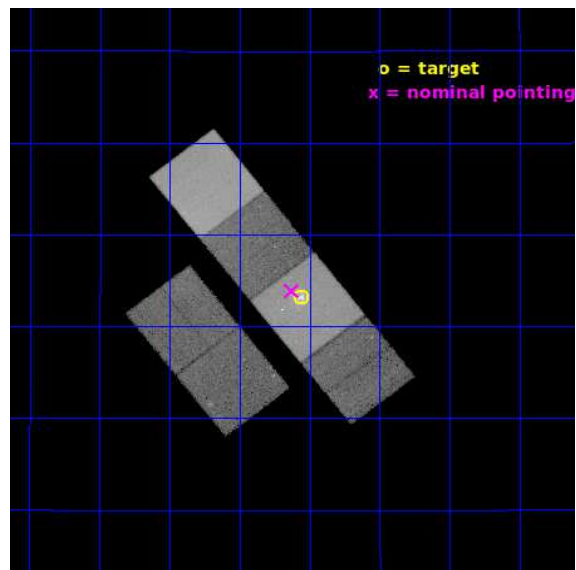
L2 Processing Date : Oct 11 2020

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1 Front

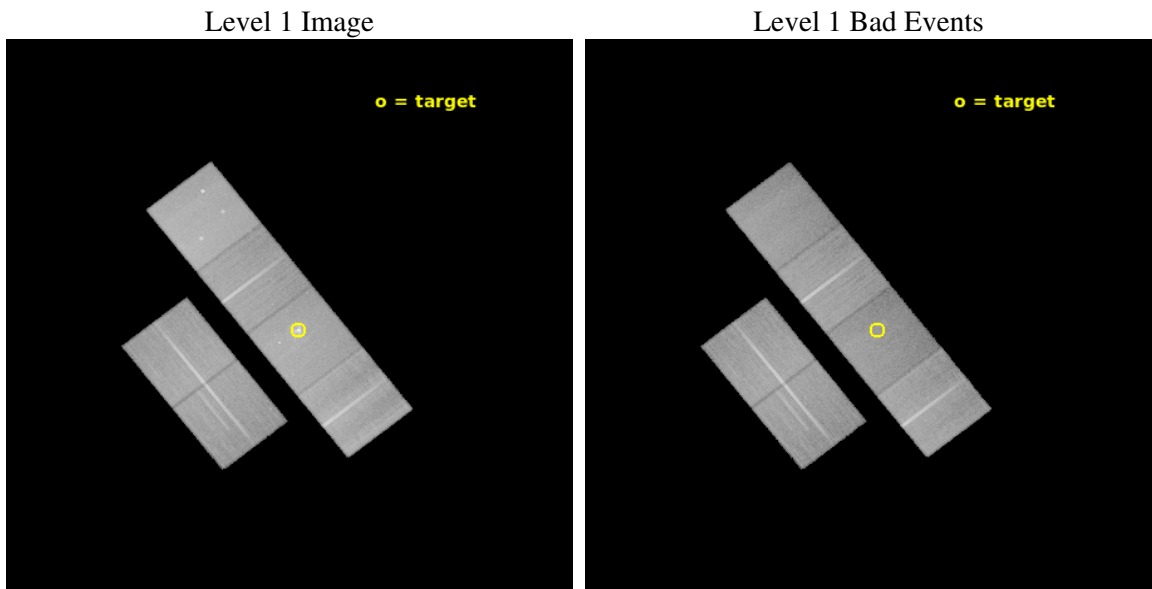
seq_num	600427	Sequence number
obs_id	6131	Observation id
title	The Exploding Galaxies M84 and M89	Proposal title
observer	Christine Jones	Principal investigator
object	M84	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	186.265833	Observer's specified target RA [deg]
dec_targ	12.886944	Observer's specified target Dec [deg]
ra_nom	186.28172713969	Nominal RA [deg]
dec_nom	12.898237716382	Nominal Dec [deg]
roll_nom	51.965792272516	Nominal Roll [deg]
revision	4	Processing version of data
ontime	41452.799845576	Sum of GTIs [s]
livetime	40927.899534052	Livetime [s]
ontime2	41452.799845576	Sum of GTIs [s]
ontime3	41446.317924947	Sum of GTIs [s]
ontime5	41452.799845576	Sum of GTIs [s]
ontime6	41452.799845576	Sum of GTIs [s]
ontime7	41452.799845576	Sum of GTIs [s]
ontime8	41449.558885276	Sum of GTIs [s]
l2events	496520	Number of level 2 events



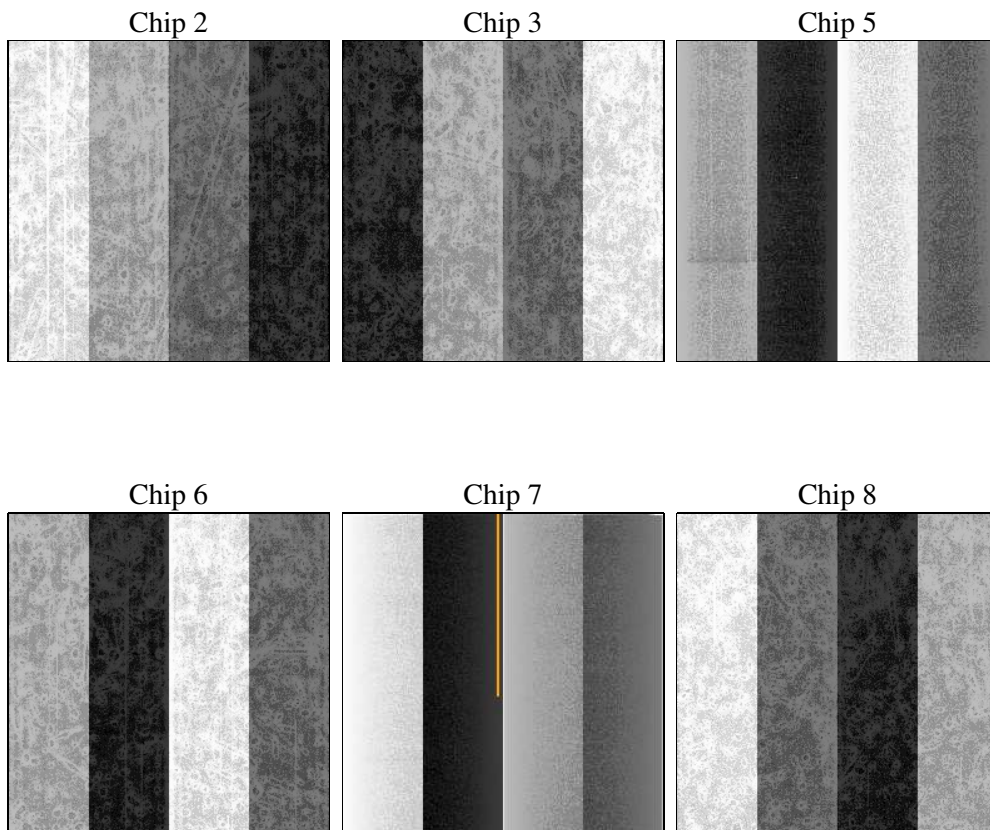
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	41500.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	41452.799845576	Sum of GTIs [s]
caldbver	4.9.2	 	ontime2	41452.799845576	Sum of GTIs [s]
date	2020-10-11T13:47:55	Date and time of file creation	ontime3	41446.317924947	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	41452.799845576	Sum of GTIs [s]
			ontime6	41452.799845576	Sum of GTIs [s]
			ontime7	41452.799845576	Sum of GTIs [s]
			ontime8	41449.558885276	Sum of GTIs [s]
			l1events	1940894	Number of level 1 events

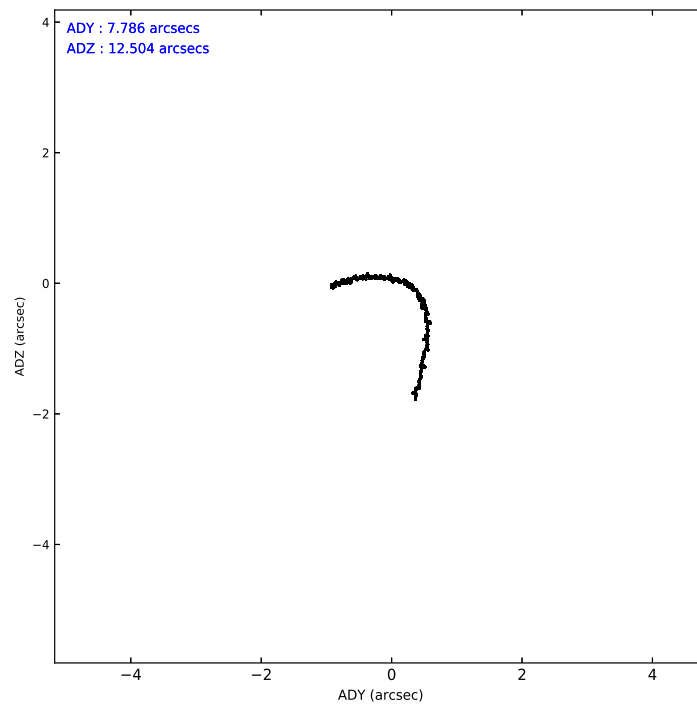
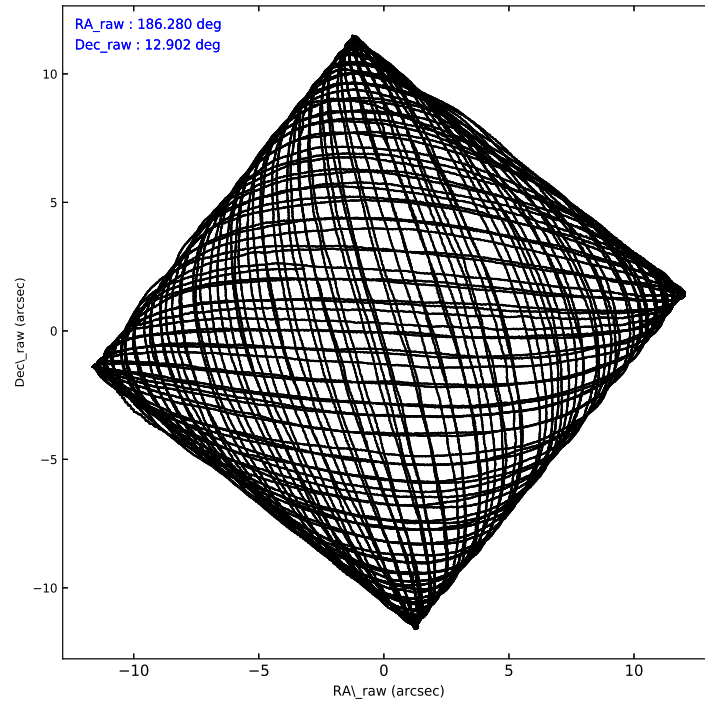
2.1.4 Events

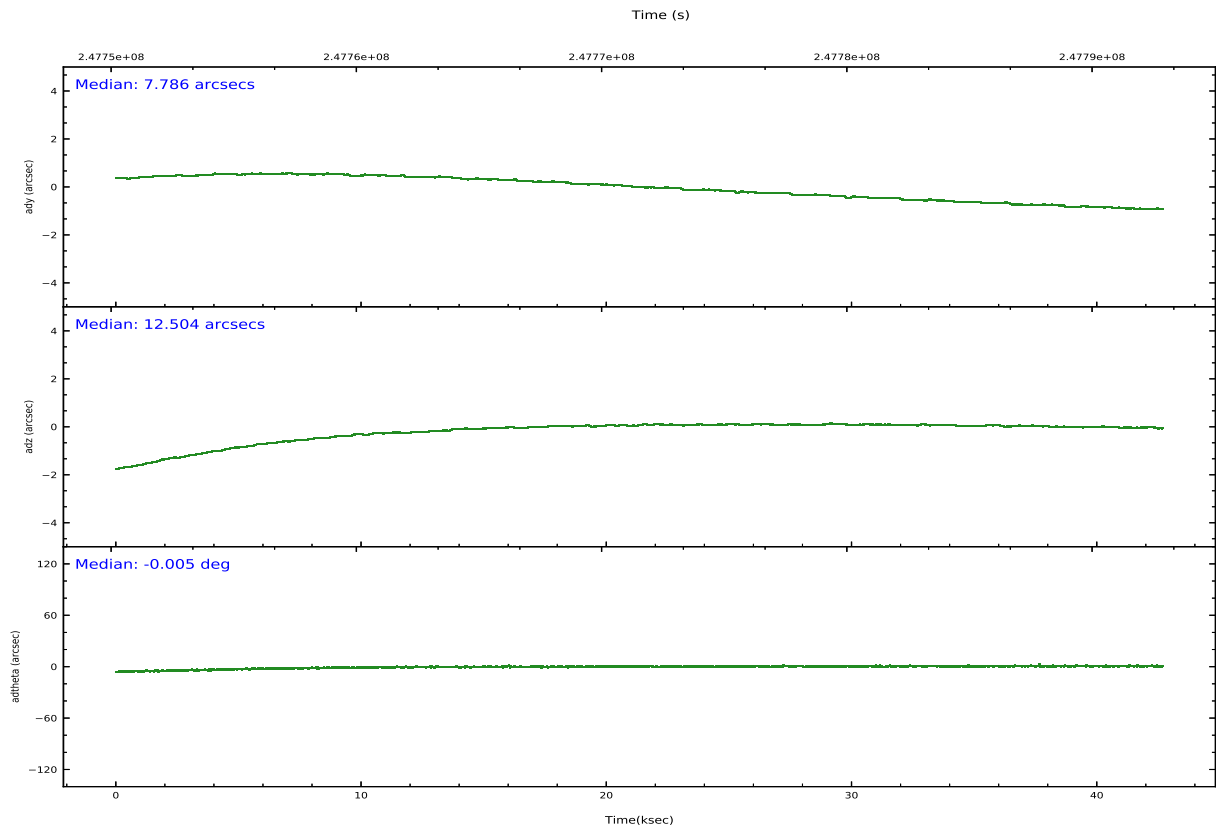
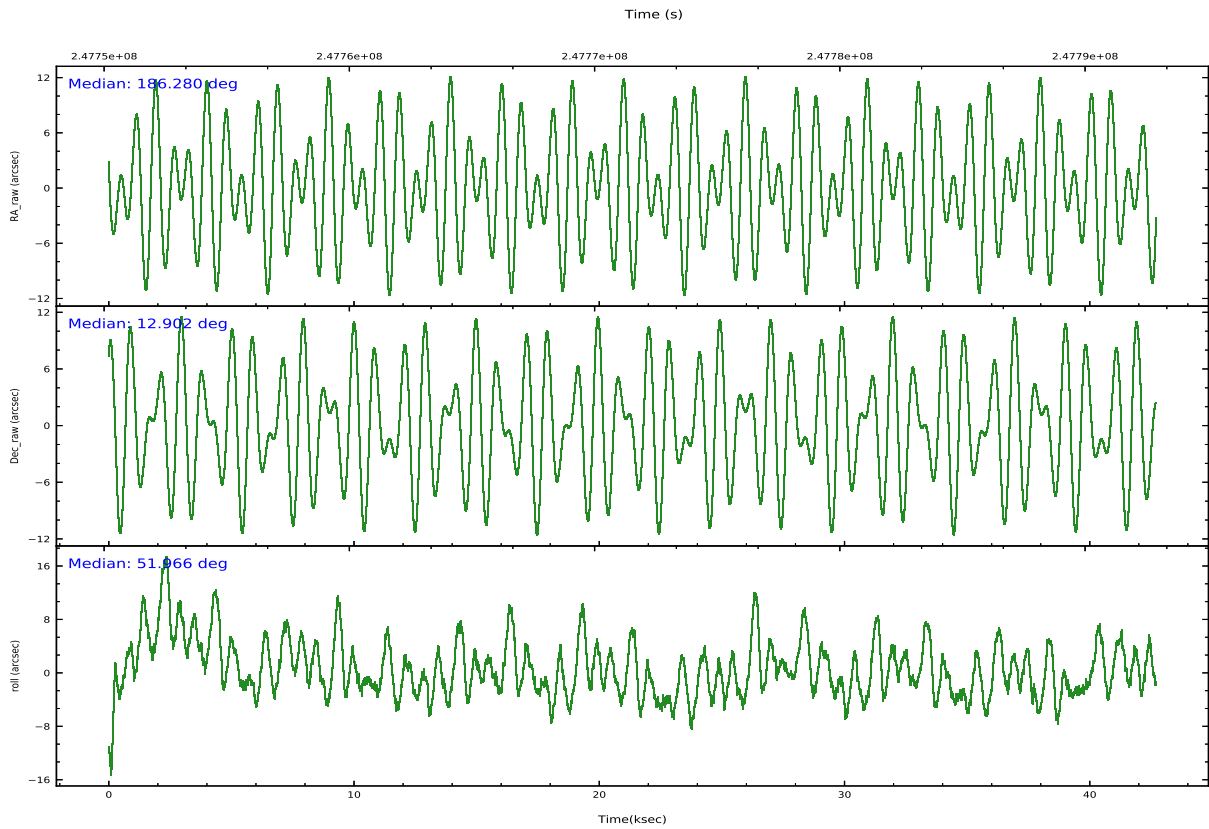
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	307302	272133	395224	289250	335513	341472	grade 0 events	20765	14965	28730	23828	23085	27009
rejected events	267632	239793	185815	245166	165849	258362		6%	5%	7%	8%	6%	7%
rejected %	87%	88%	47%	84%	49%	75%	grade 1 events	197	170	519	174	246	266
								0%	0%	0%	0%	0%	0%
							grade 2 events	7521	6033	60437	7407	36157	18419
								2%	2%	15%	2%	10%	5%
							grade 3 events	3279	3137	11217	3411	16459	8705
								1%	1%	2%	1%	4%	2%
							grade 4 events	3252	3072	10680	3341	16579	8060
								1%	1%	2%	1%	4%	2%
							grade 5 events	8913	10738	30806	10944	32715	15474
								2%	3%	7%	3%	9%	4%
							grade 6 events	4854	5135	98361	6100	77393	20928
								1%	1%	24%	2%	23%	6%
							grade 7 events	258521	228883	154474	234045	132879	242611
								84%	84%	39%	80%	39%	71%

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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	186.276775	186.28172713969	Subarray requested	NONE	NONE
[deg] Pointing Dec	12.875164	12.898237716382	Alternating exposures requested	N	N
[deg] Pointing Roll	51.800785	51.965792272516	[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	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	247751397.184000	247749922.57316			
Observation start date	2005-11-07T11:48:53	2005-11-07T11:25:22			
[s] Observation end time (MET)	247792897.184000	247793921.21269			
Observation end date	2005-11-07T23:20:33	2005-11-07T23:38:41			
Read mode	TIMED	TIMED			

2.3 Aspect





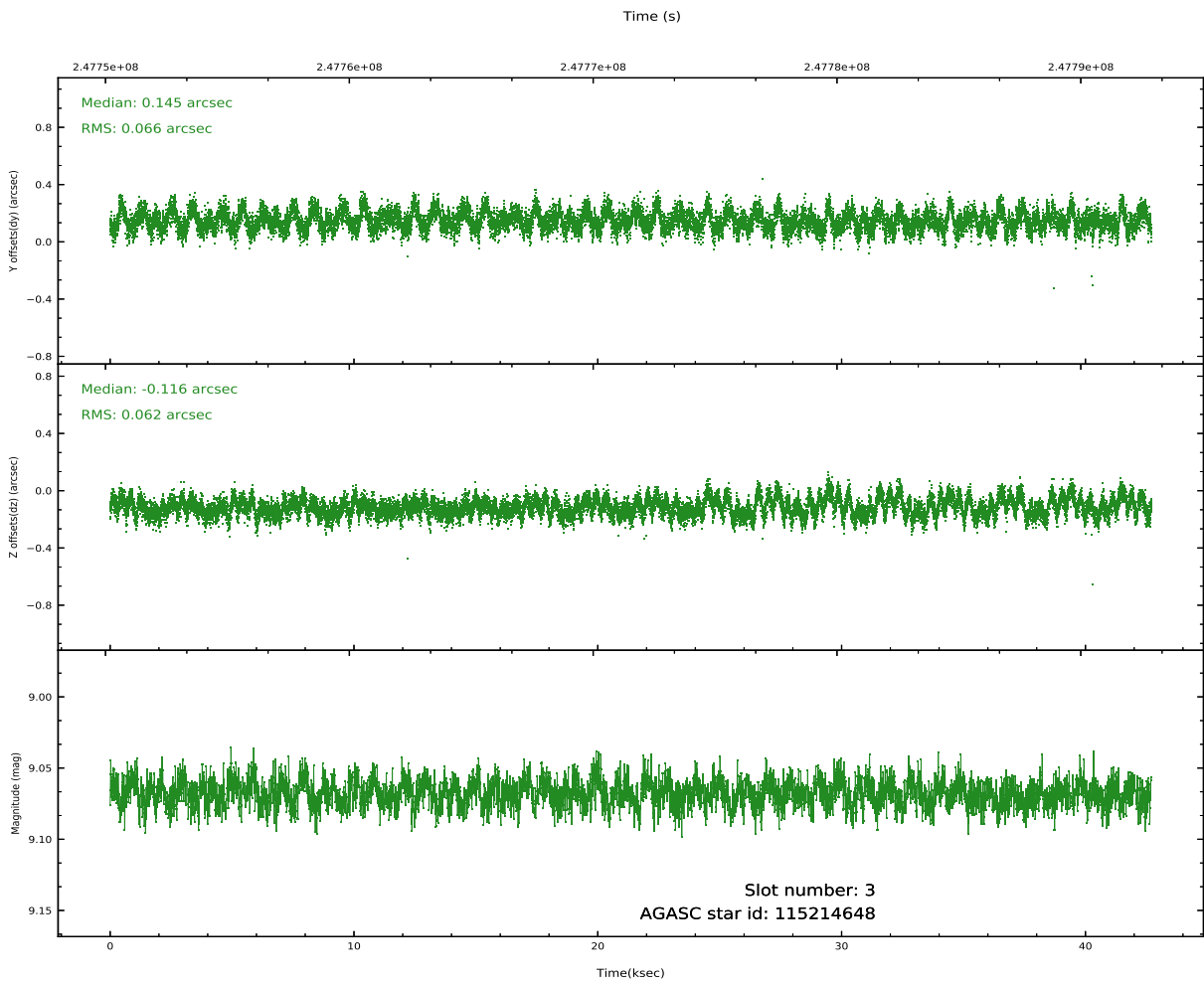
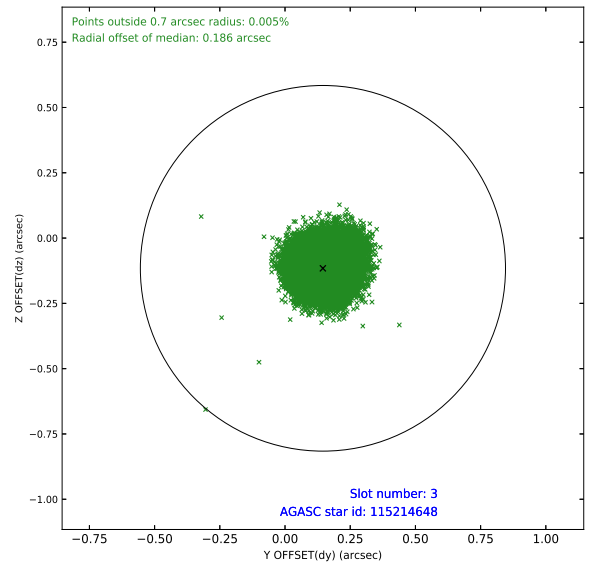
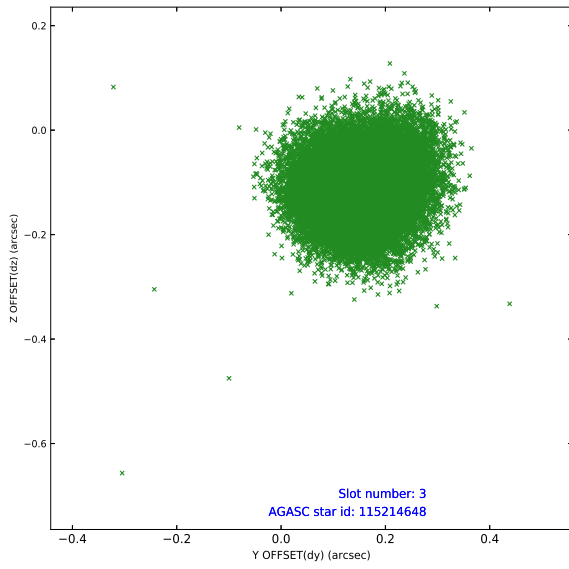
Slot Statistics

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	7.10	10417	1.000	-0.043	-0.072	0.011	0.027	0.000000	0.000000	-760.52	-1733
1	FID		ACIS-S-4	7.20	10417	1.000	0.142	0.040	0.018	0.042	0.000000	0.000000	2152.92	174
2	FID		ACIS-S-5	7.23	10417	1.000	-0.135	0.041	0.022	0.031	0.000000	0.000000	-1813.48	168
3	GUIDE	used	115214648	9.07	20821	1.000	0.145	-0.116	0.098	0.152	185.771147	12.685188	-1634.04	974
4	GUIDE	used	115215968	10.17	20807	1.000	0.091	-0.157	0.163	0.266	186.327588	13.159527	914.97	493
5	GUIDE	used	115216184	9.65	20818	1.000	0.112	-0.061	0.105	0.168	185.973150	12.580247	-1493.83	181
6	GUIDE	used	115347480	9.60	20803	1.000	-0.163	0.117	0.122	0.193	186.668576	13.310410	2080.92	-108
7	GUIDE	used	115349744	10.31	20266	1.000	-0.193	0.233	0.241	0.396	186.878186	12.752529	960.99	-1930

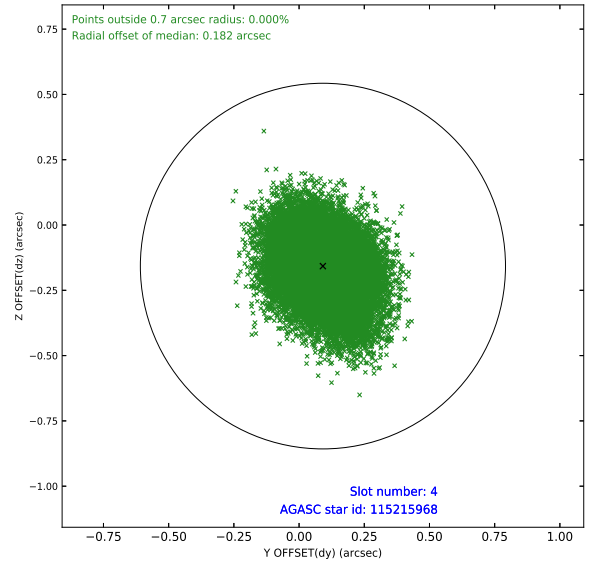
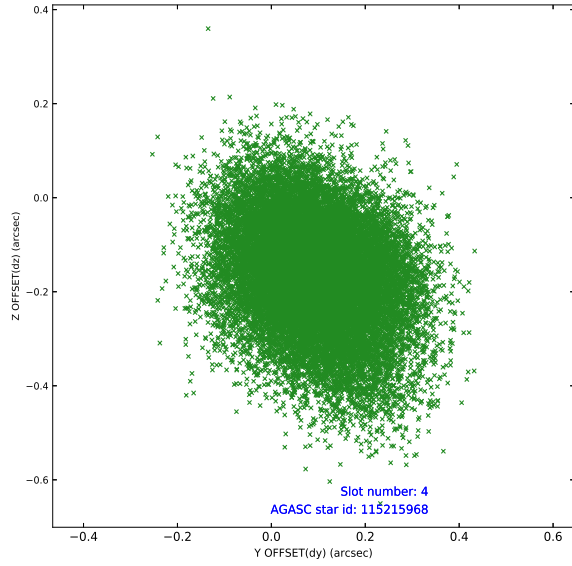
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2.4 Star Slots

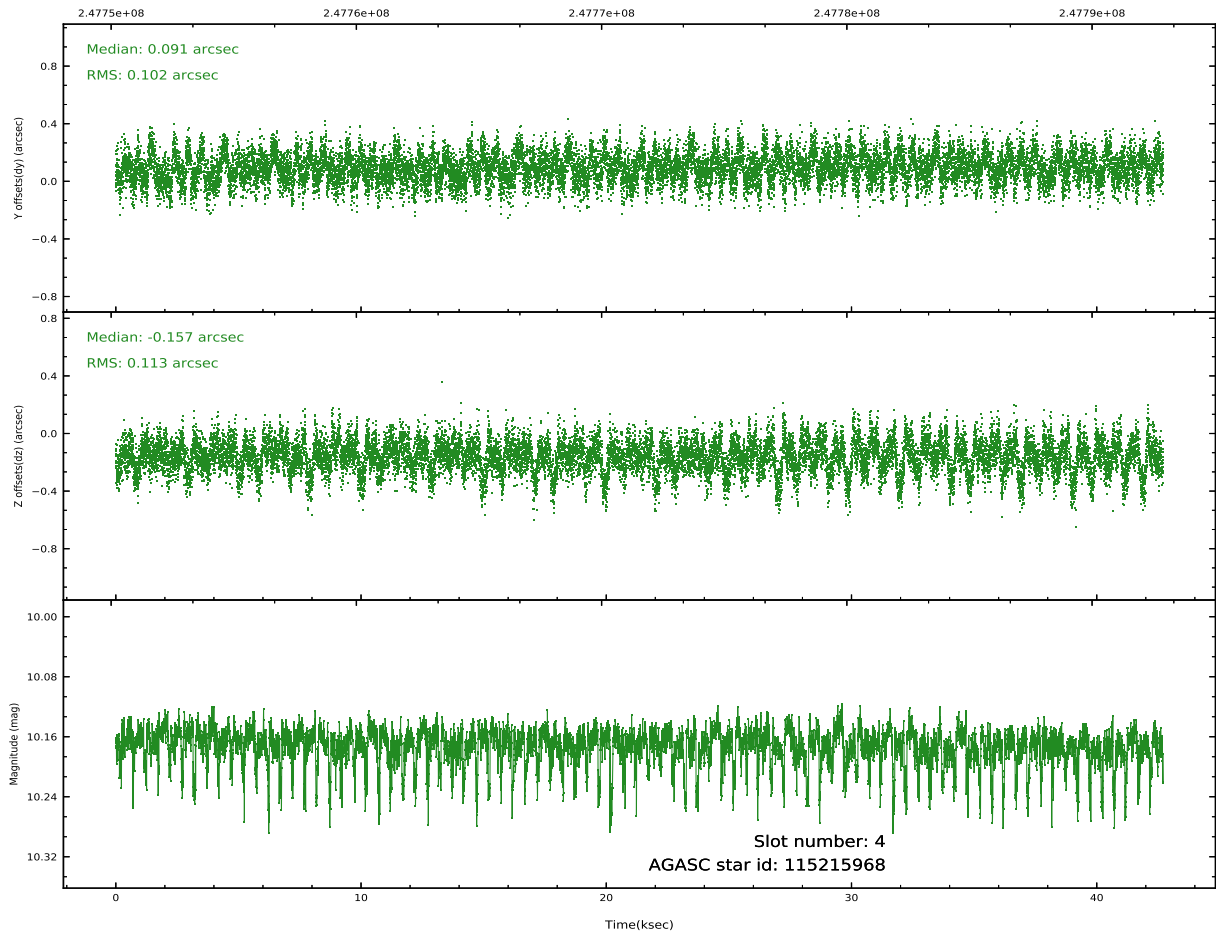
2.4.1 Slot 3



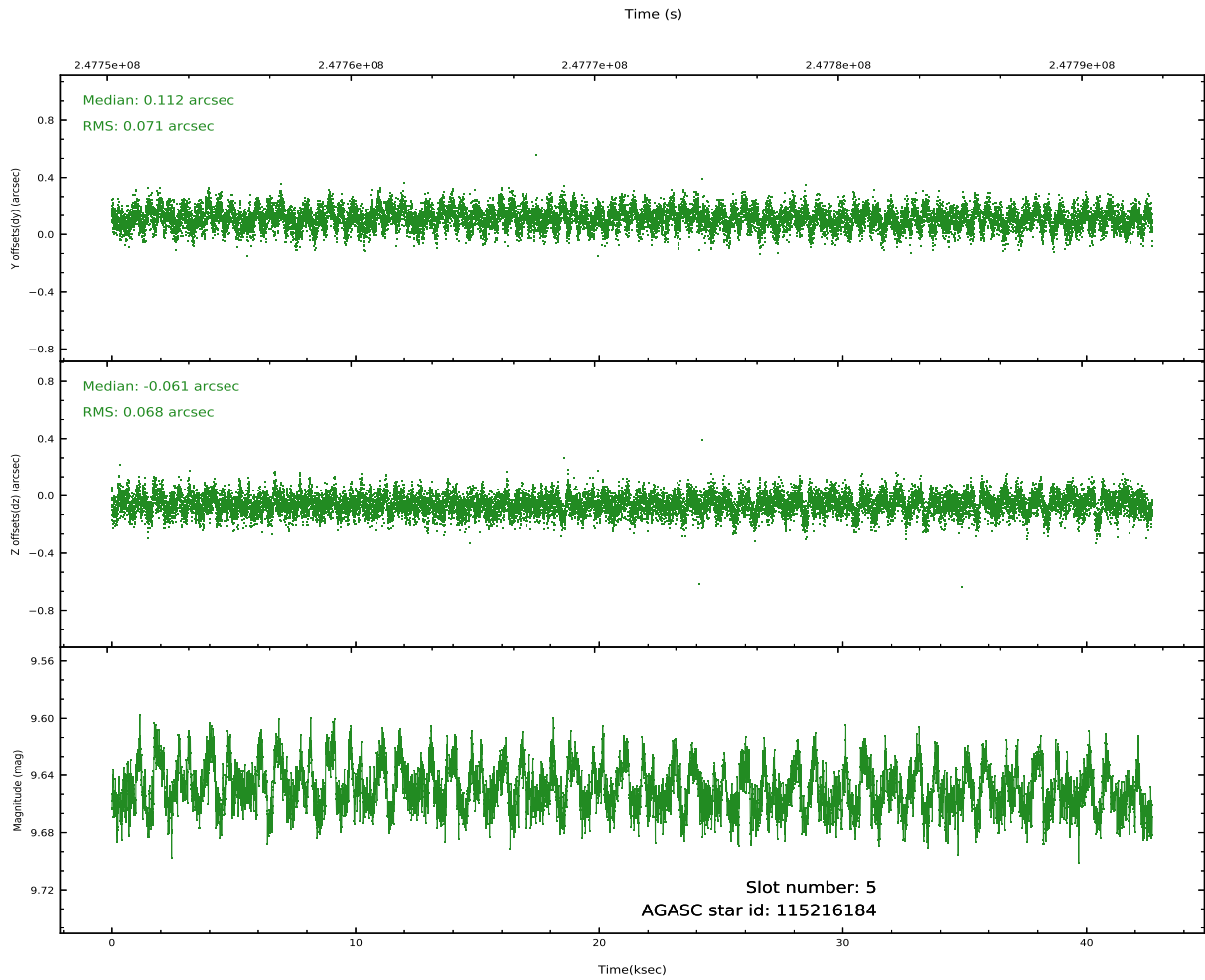
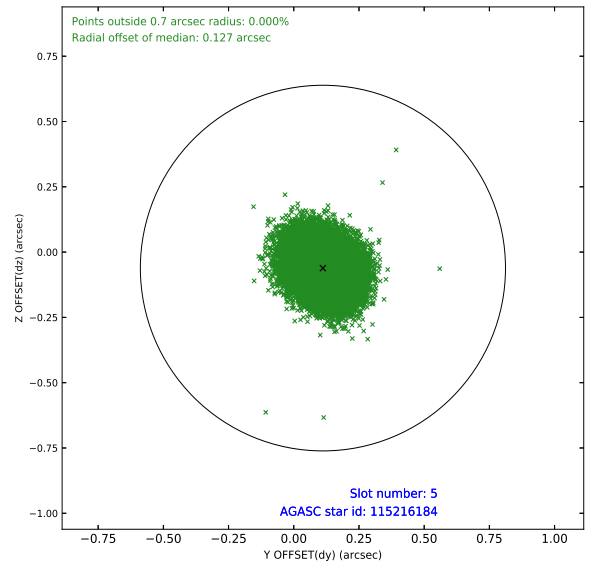
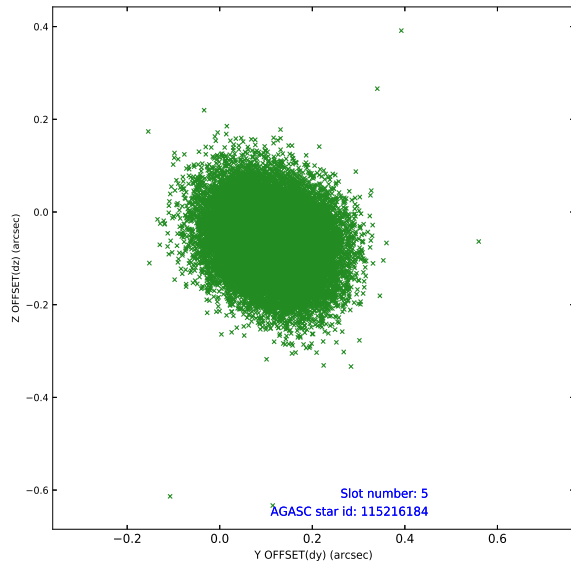
2.4.2 Slot 4



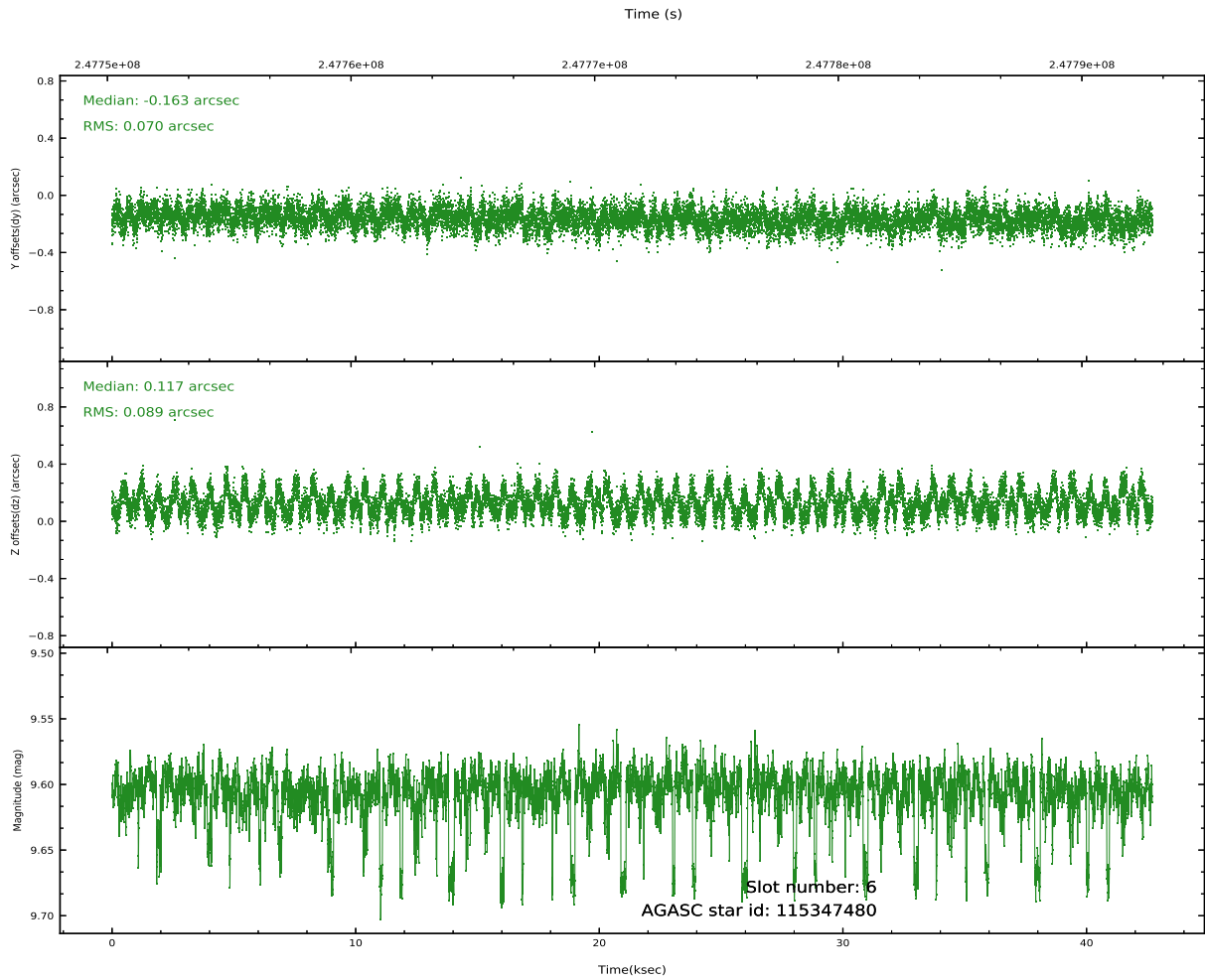
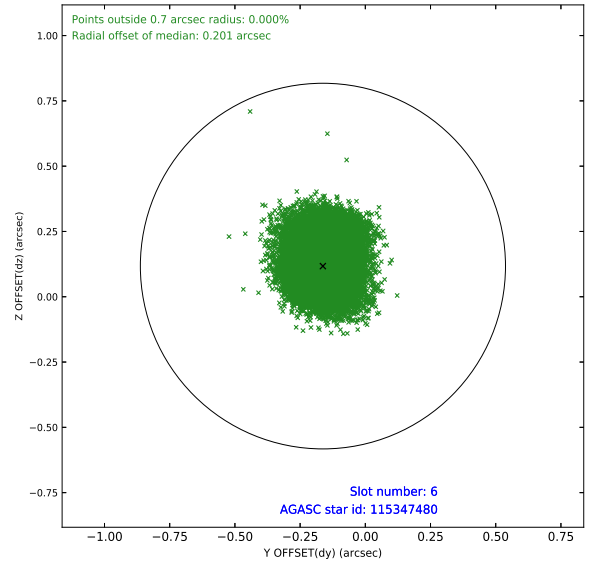
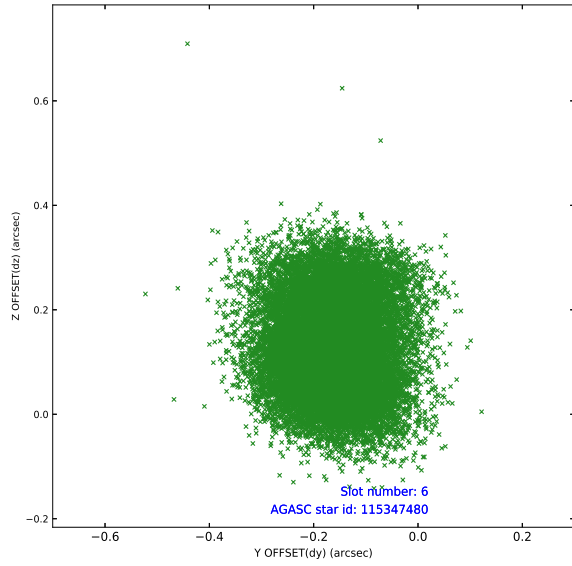
Time (s)



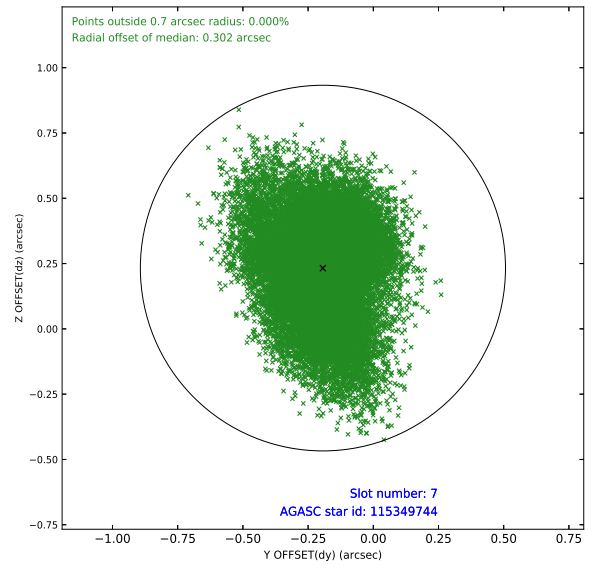
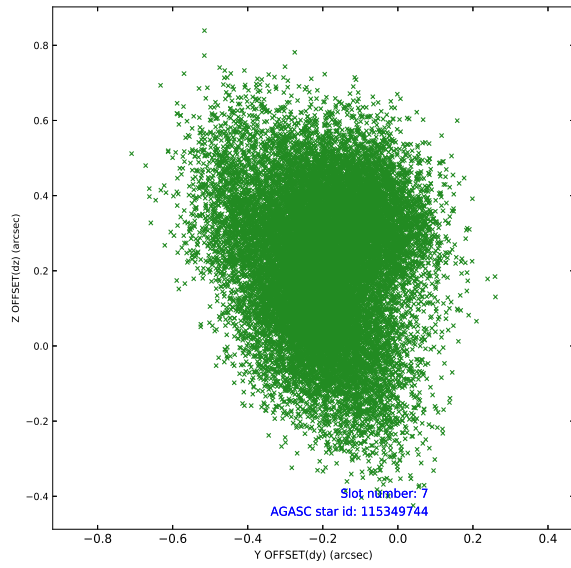
2.4.3 Slot 5



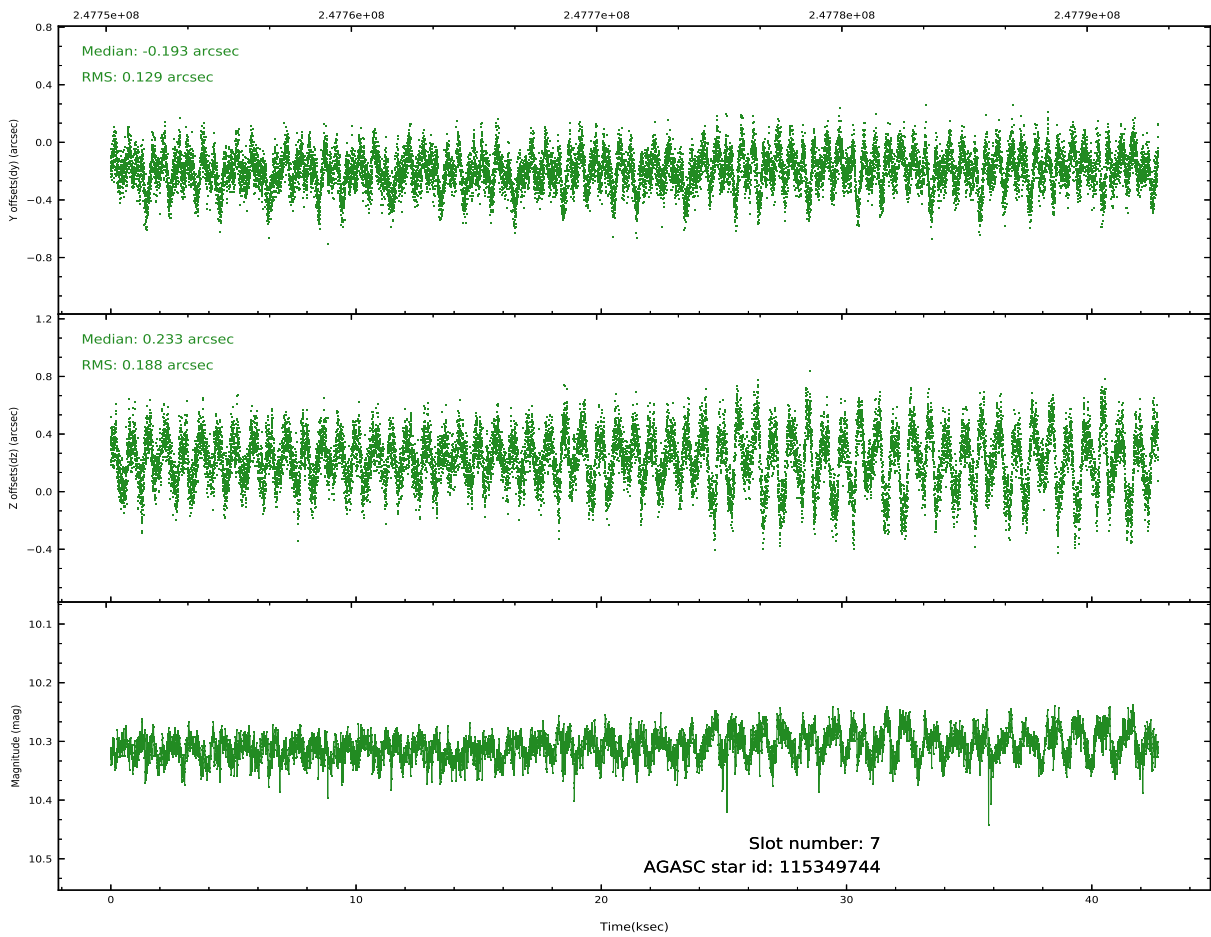
2.4.4 Slot 6



2.4.5 Slot 7

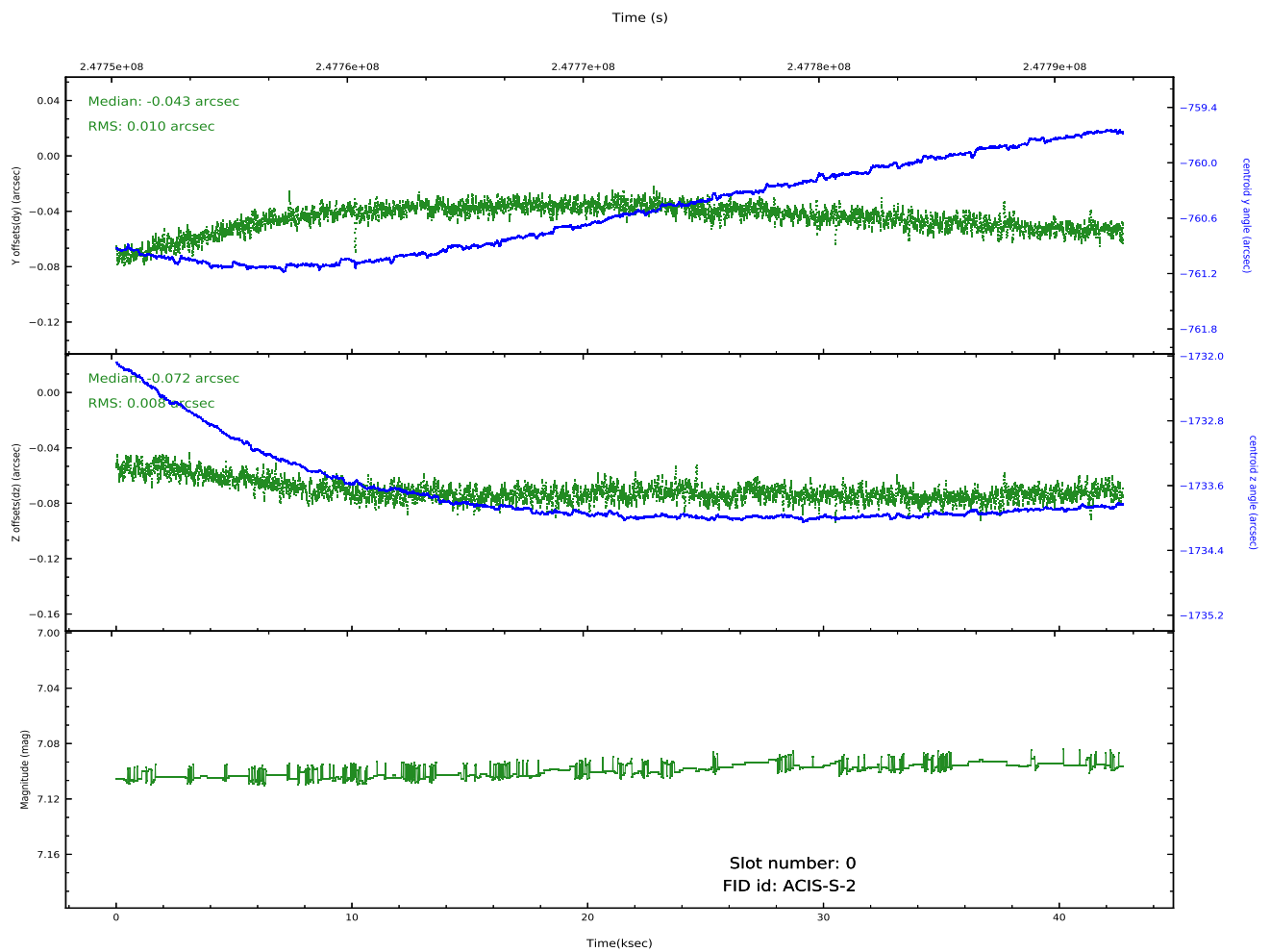
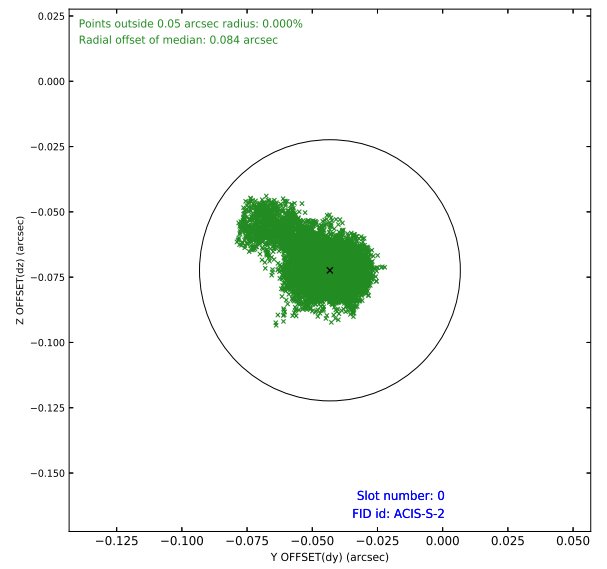
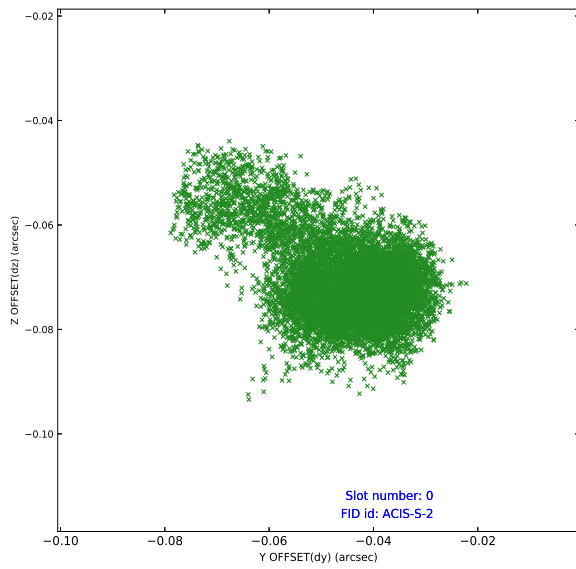


Time (s)

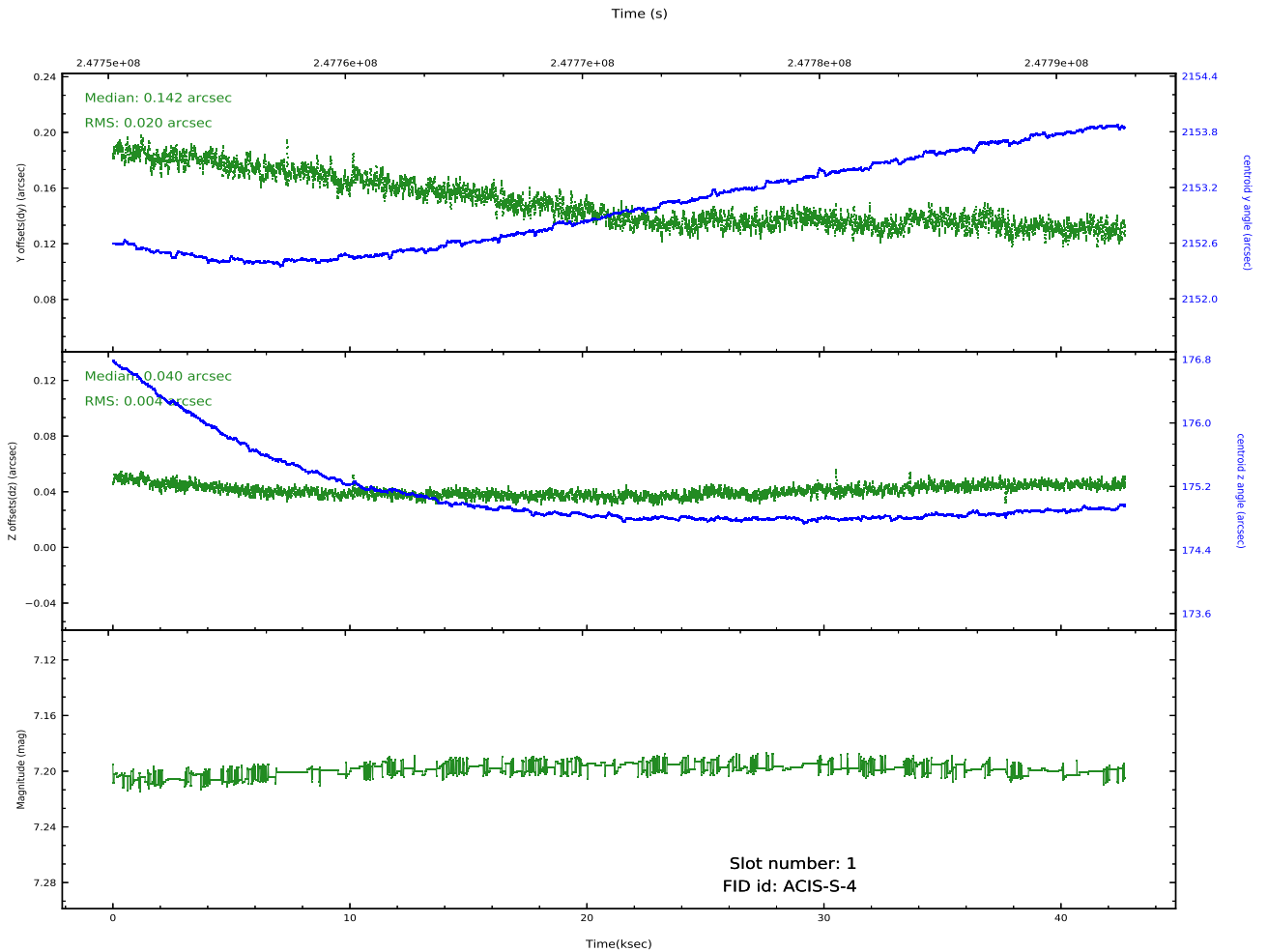
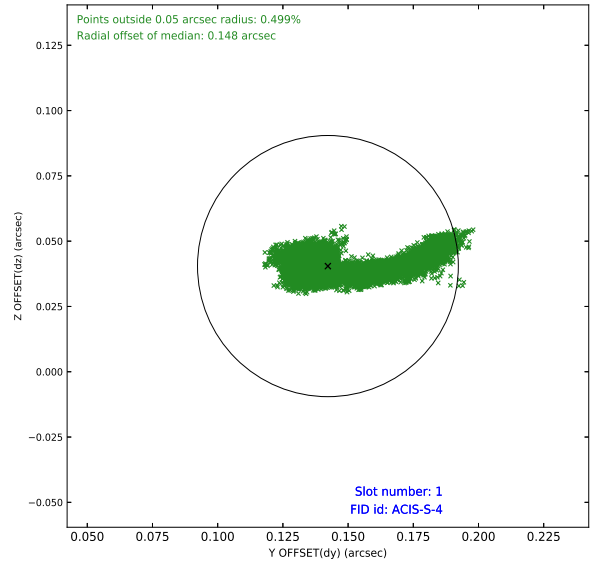
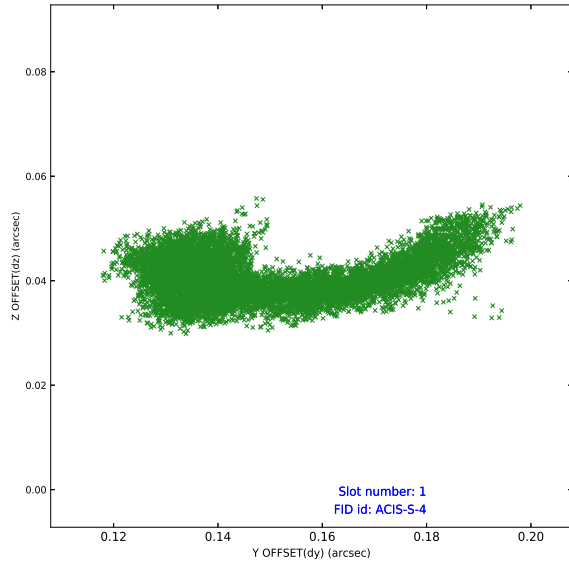


2.5 FID Slots

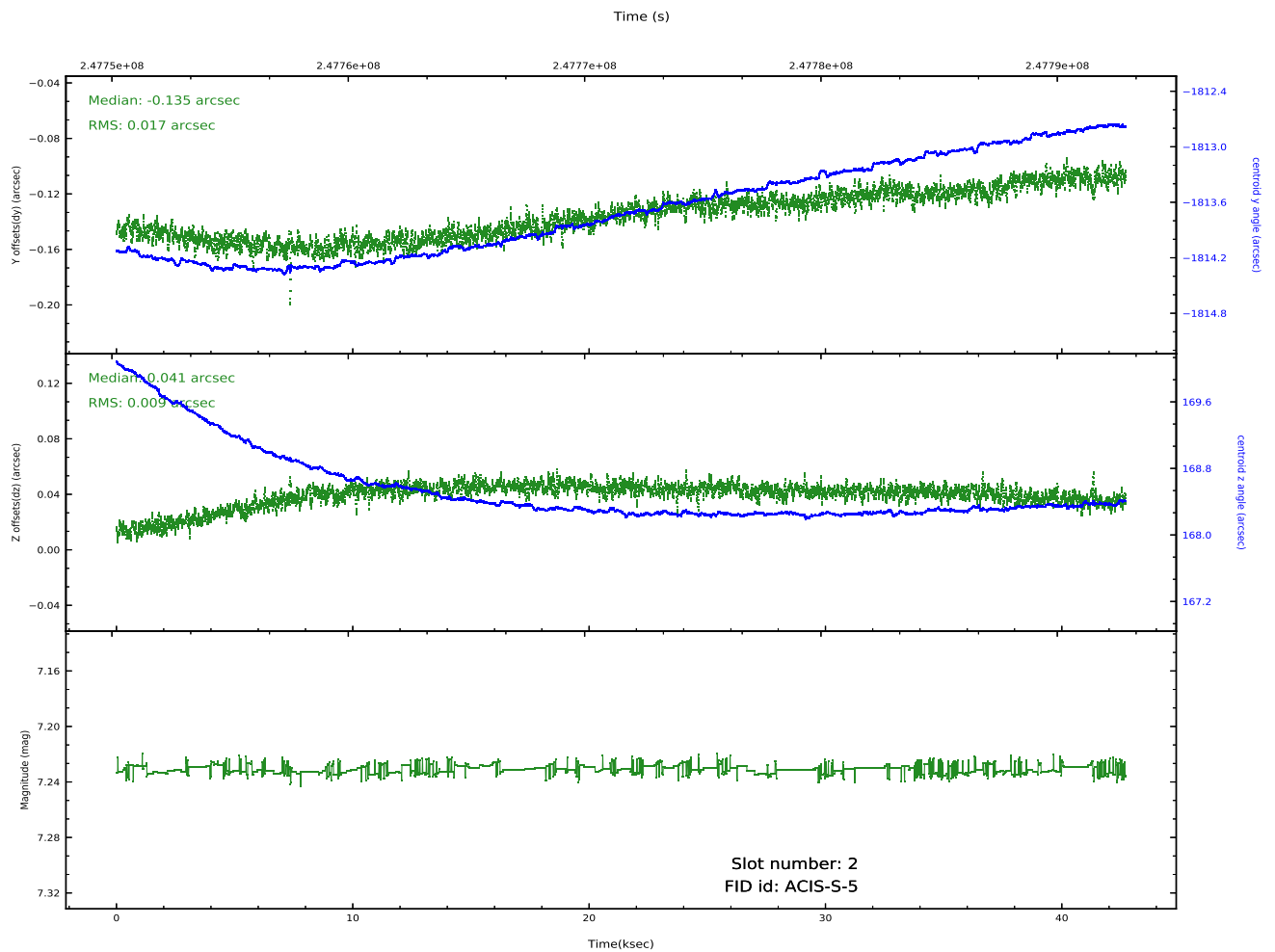
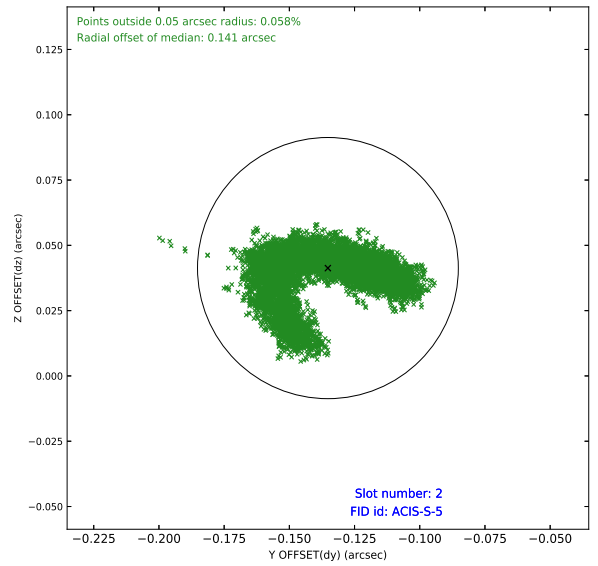
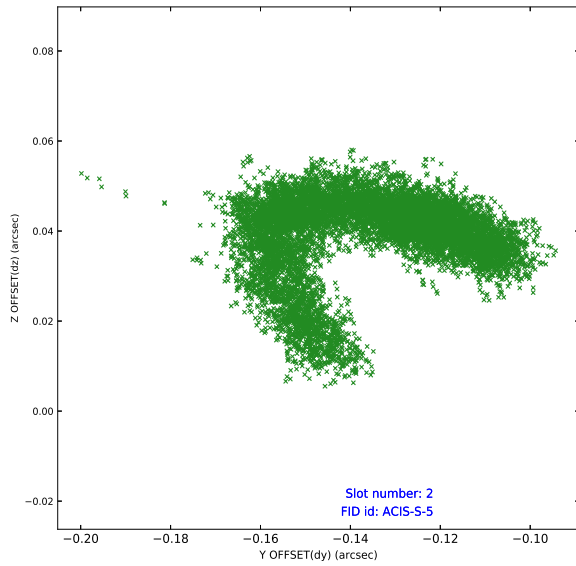
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	41.45279

A.2 Comments

Monitor constraint met.