

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20437 - L2 Version 2
Chandra X-Ray Center

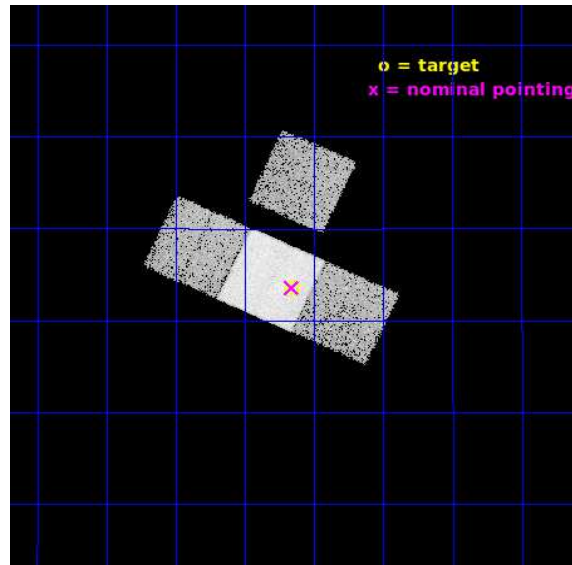
L2 Processing Date : Oct 26 2020

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1 Front

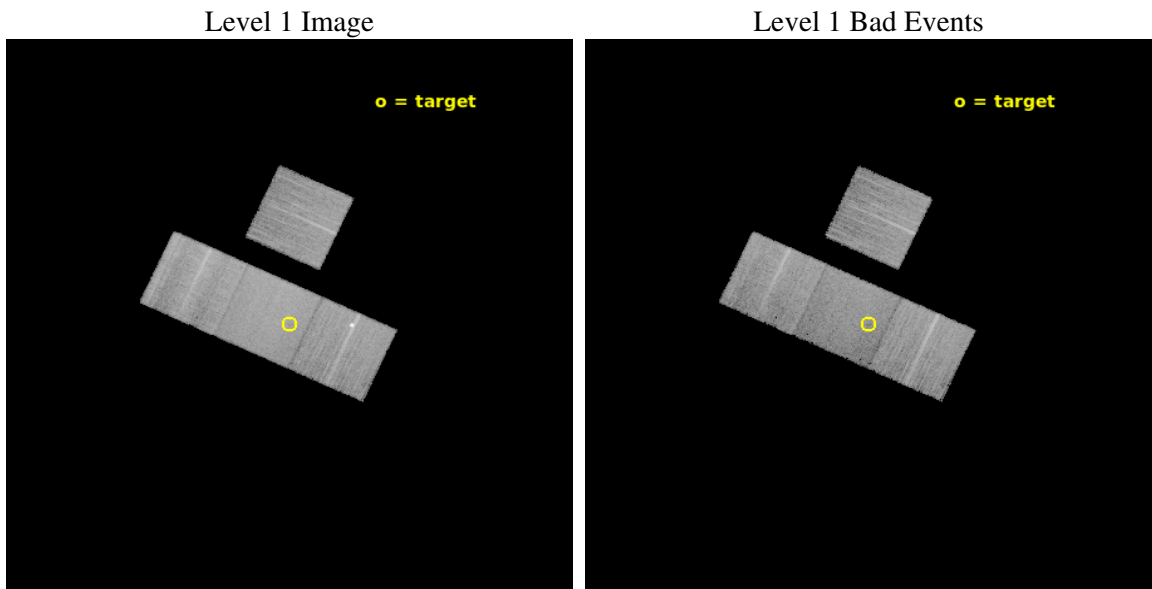
seq_num	703542	Sequence number
obs_id	20437	Observation id
title	X-Ray properties of Post-Merger Spheroidal Galaxies: The Missing Link in Understanding the Merger-AGN connection	Proposal title
observer	Preethi Nair	Principal investigator
object	SDSS J161839.65+153329.4	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	244.665	Observer's specified target RA [deg]
dec_targ	15.558111	Observer's specified target Dec [deg]
ra_nom	244.66525242059	Nominal RA [deg]
dec_nom	15.559574089743	Nominal Dec [deg]
roll_nom	204.84240012542	Nominal Roll [deg]
revision	2	Processing version of data
ontime	13065.209341407	Sum of GTIs [s]
livetime	12894.502762894	Livetime [s]
ontime3	13061.986191154	Sum of GTIs [s]
ontime6	13062.027221203	Sum of GTIs [s]
ontime7	13065.209341407	Sum of GTIs [s]
ontime8	13065.086221457	Sum of GTIs [s]
l2events	84382	Number of level 2 events



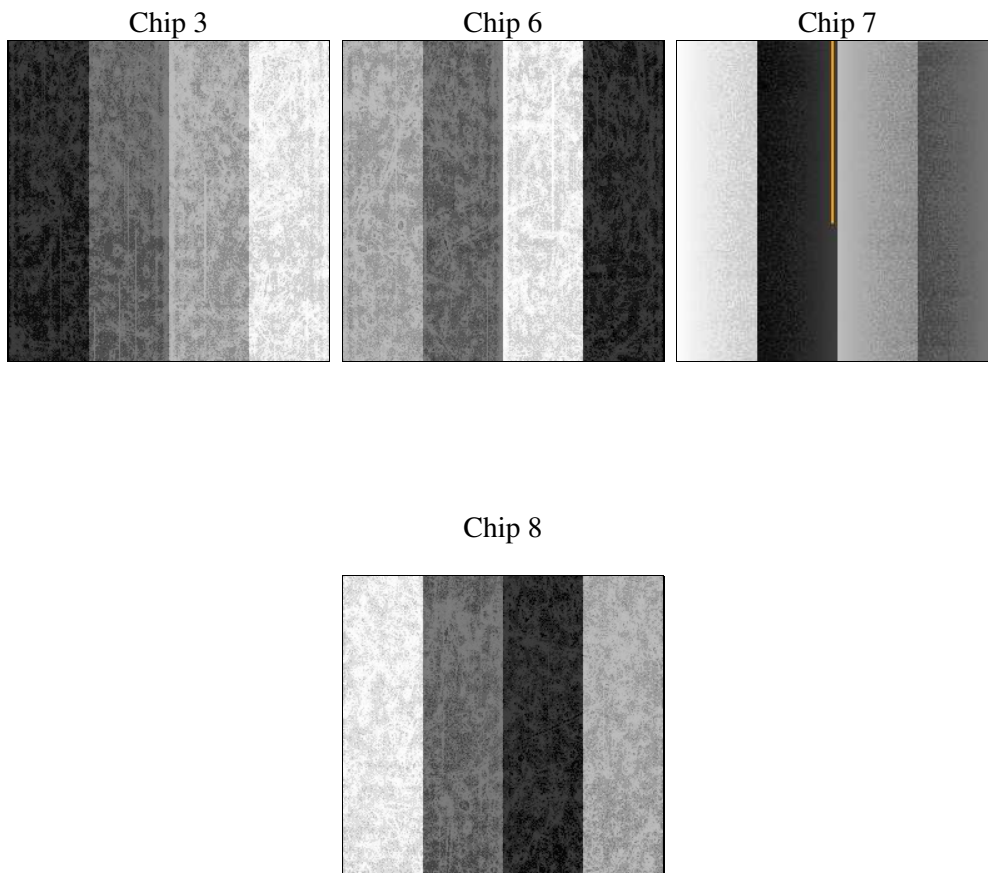
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	13000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	13065.209341407	Sum of GTIs [s]
caldbver	4.9.3	 	ontime3	13061.986191154	Sum of GTIs [s]
date	2020-10-26T08:35:04	Date and time of file creation	ontime6	13062.027221203	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	13065.209341407	Sum of GTIs [s]
			ontime8	13065.086221457	Sum of GTIs [s]
			l1events	469570	Number of level 1 events

2.1.4 Events

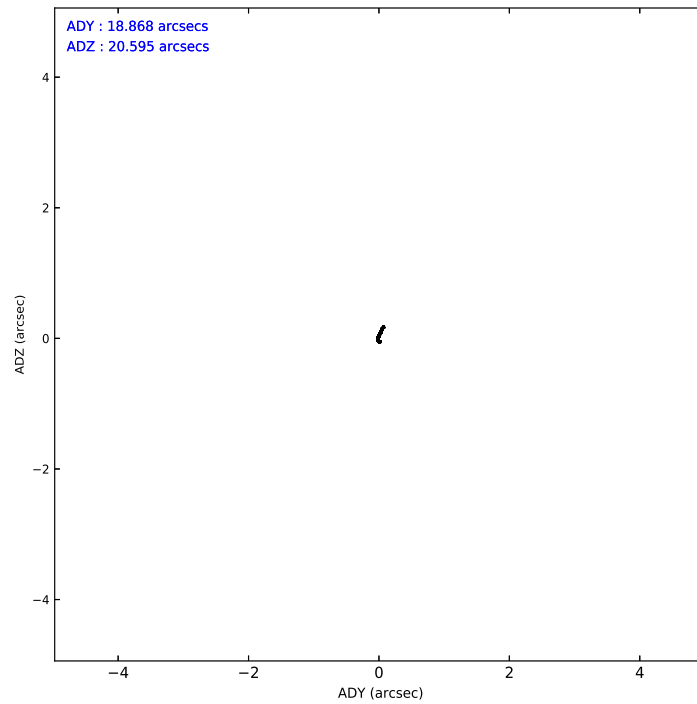
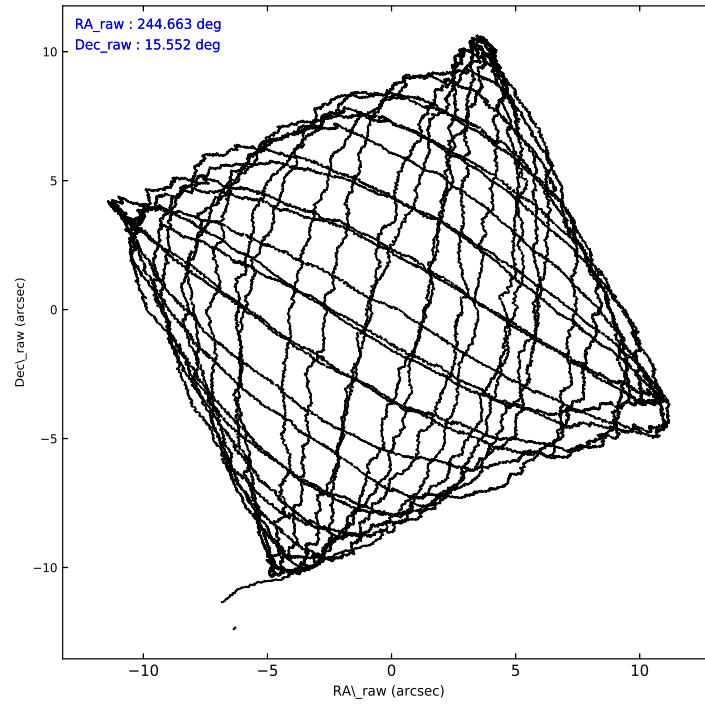
	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	98111	111627	129925	129907
rejected events	88023	96230	73964	95773
rejected %	89%	86%	56%	73%

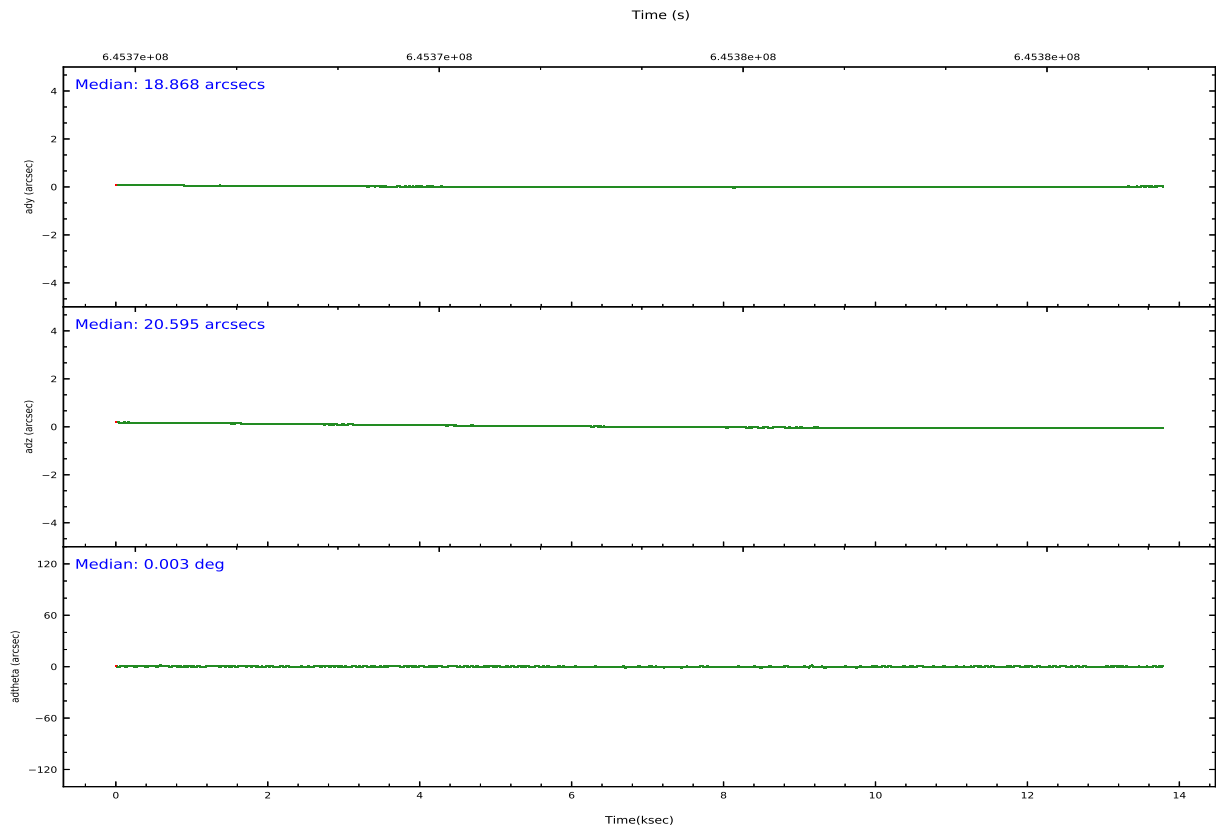
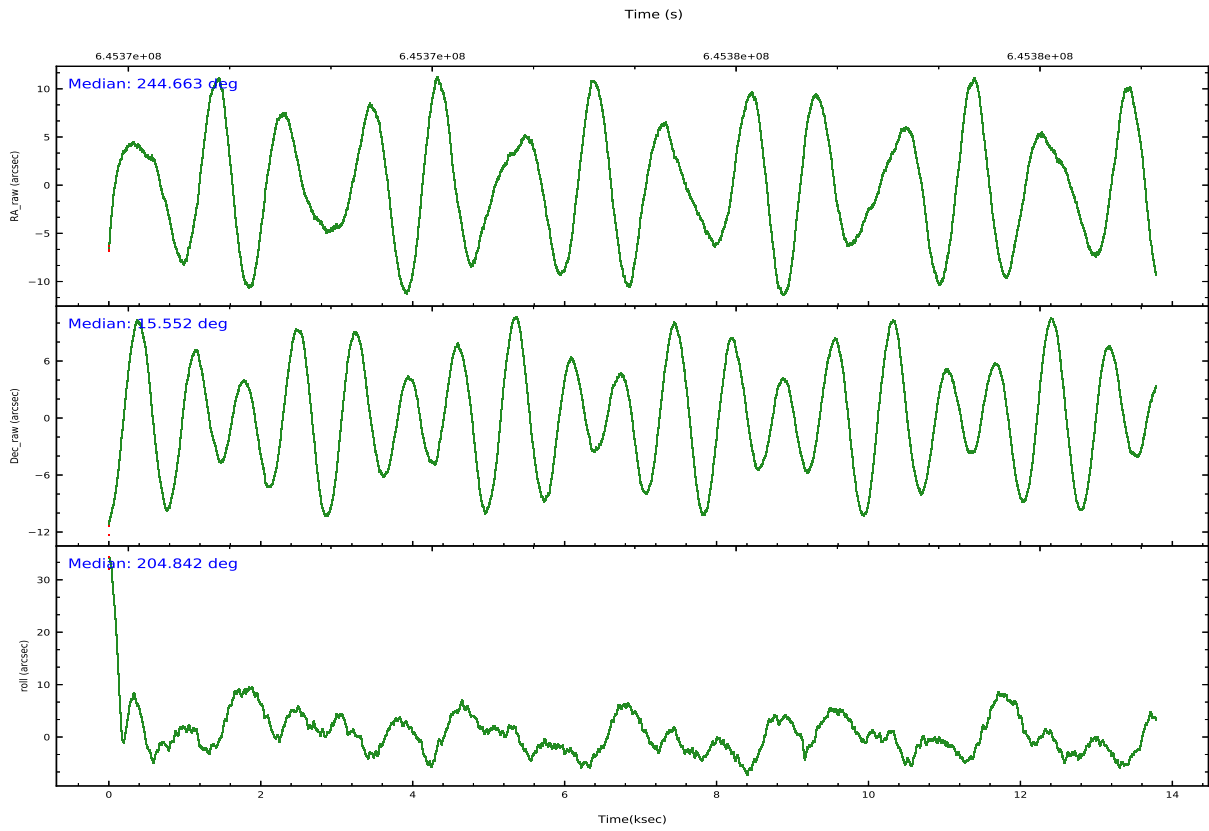
	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	3499	7473	4809	9355
	3%	6%	3%	7%
grade 1 events	49	69	208	102
	0%	0%	0%	0%
grade 2 events	2154	2941	11875	8460
	2%	2%	9%	6%
grade 3 events	1096	1030	4440	3623
	1%	0%	3%	2%
grade 4 events	1117	1066	4303	3370
	1%	0%	3%	2%
grade 5 events	4485	4462	12646	6913
	4%	3%	9%	5%
grade 6 events	2229	2895	30554	9335
	2%	2%	23%	7%
grade 7 events	83482	91691	61090	88749
	85%	82%	47%	68%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-3678	ACIS-3678	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	244.678808	244.66525242059	Subarray requested	NONE	NONE
[deg] Pointing Dec	15.574488	15.559574089743	Alternating exposures requested	N	N
[deg] Pointing Roll	204.693356	204.84240012542	[s] Primary exposure time	0.000000	3.1
[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)	645368529.184000	645367346.41558			
Observation start date	2018-06-14T13:01:00	2018-06-14T12:42:26			
[s] Observation end time (MET)	645381529.184000	645382352.92897			
Observation end date	2018-06-14T16:37:40	2018-06-14T16:52:32			
Read mode	TIMED	TIMED			

2.3 Aspect





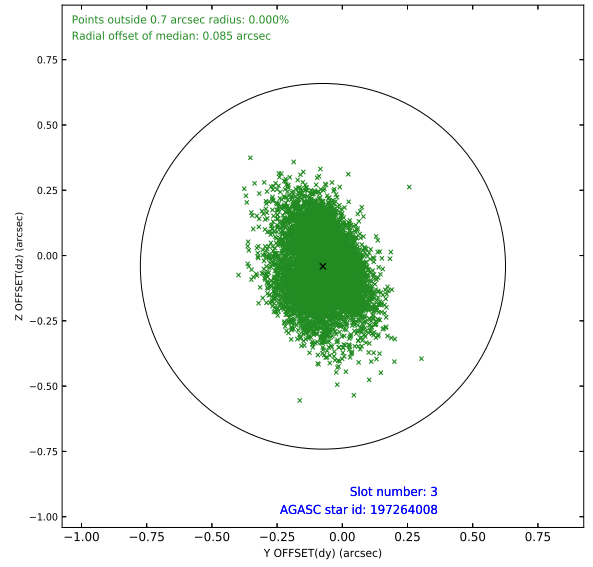
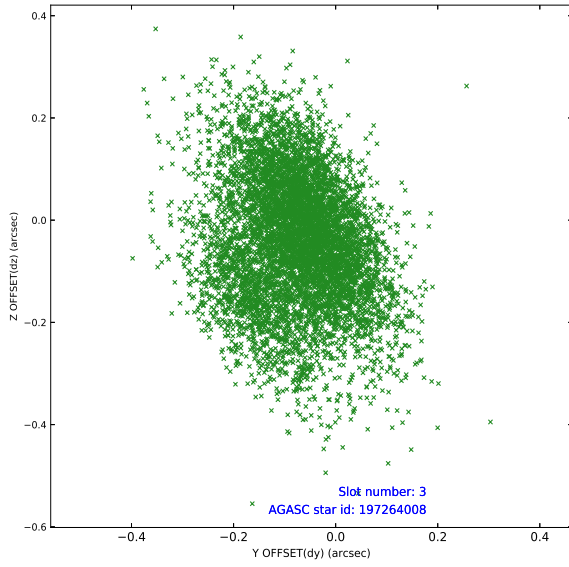
Slot Statistics

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	3363	1.000	0.100	-0.098	0.008	0.013	0.000000	0.000000	-772.08	-1742
1	FID		ACIS-S-4	7.20	3363	1.000	0.153	-0.022	0.010	0.021	0.000000	0.000000	2141.34	165
2	FID		ACIS-S-5	7.20	3363	1.000	-0.285	0.129	0.009	0.018	0.000000	0.000000	-1824.63	160
3	GUIDE	used	197264008	8.83	6722	1.000	-0.074	-0.041	0.160	0.266	245.343242	15.190266	-1520.93	2217
4	GUIDE	used	197265328	9.85	6720	1.000	-0.161	0.157	0.215	0.359	245.455203	15.370427	-2143.92	1789
5	GUIDE	used	197267120	8.65	6722	1.000	-0.007	-0.047	0.144	0.237	244.508530	15.525693	609.71	-87
6	GUIDE	used	197267216	9.19	6717	1.000	0.223	-0.246	0.152	0.251	244.944817	15.493813	-716.71	648
7	GUIDE	used	197270000	9.35	6716	1.000	0.023	0.175	0.214	0.339	244.809164	16.068414	-1152.20	-1426

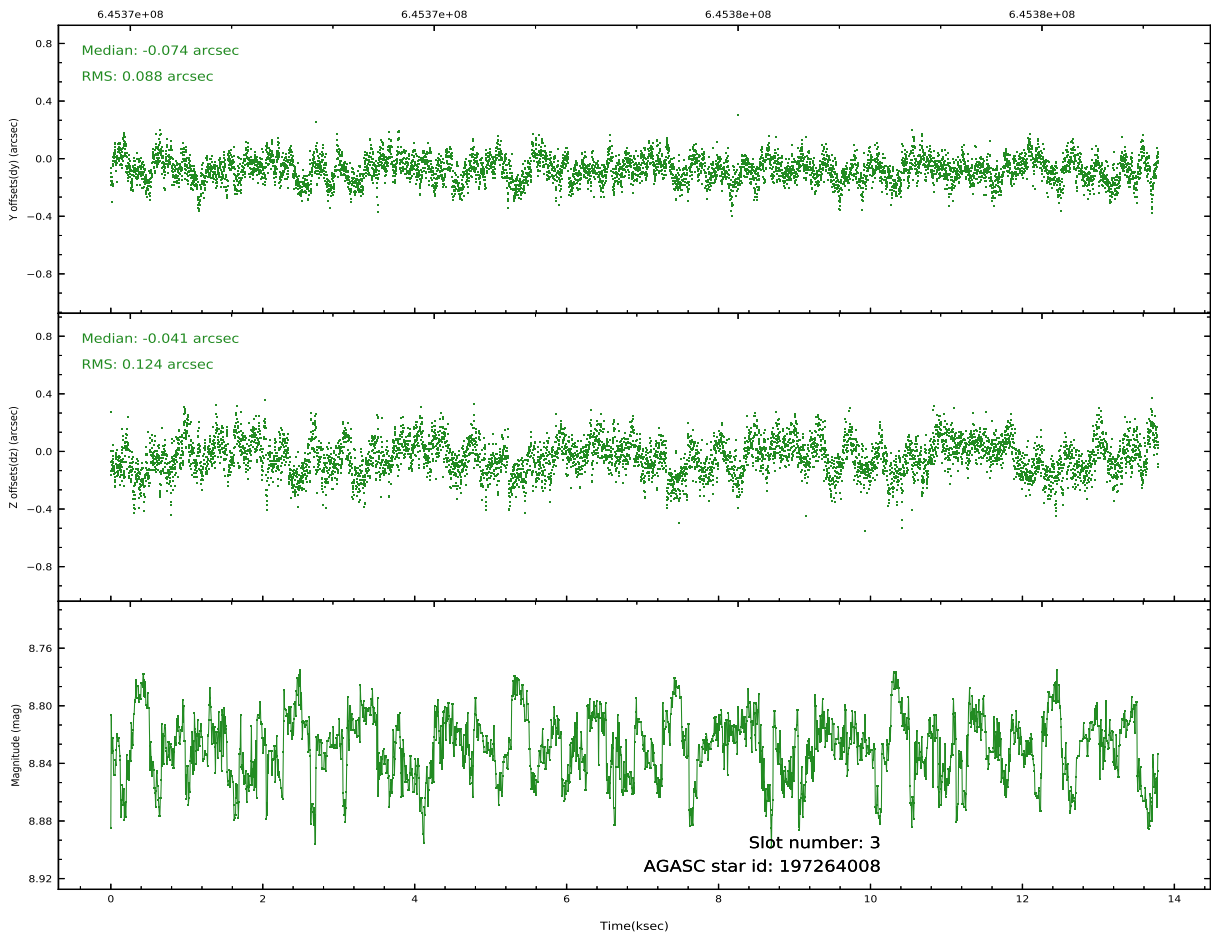
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2.4 Star Slots

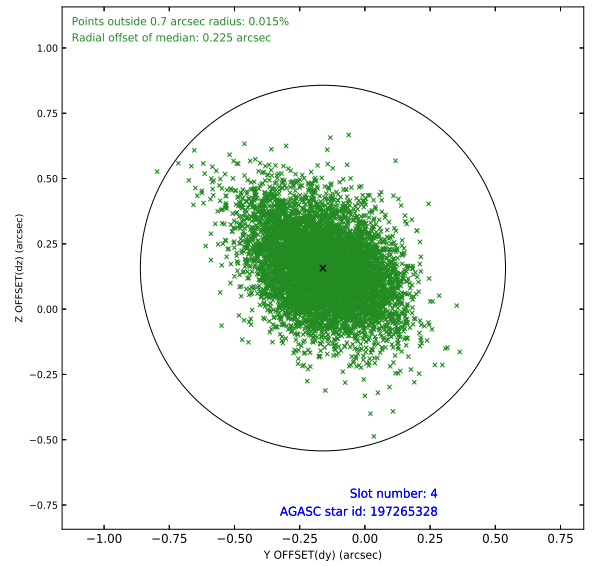
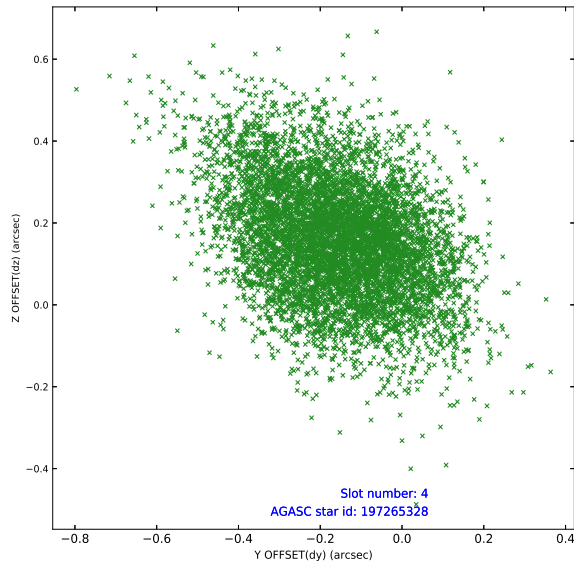
2.4.1 Slot 3



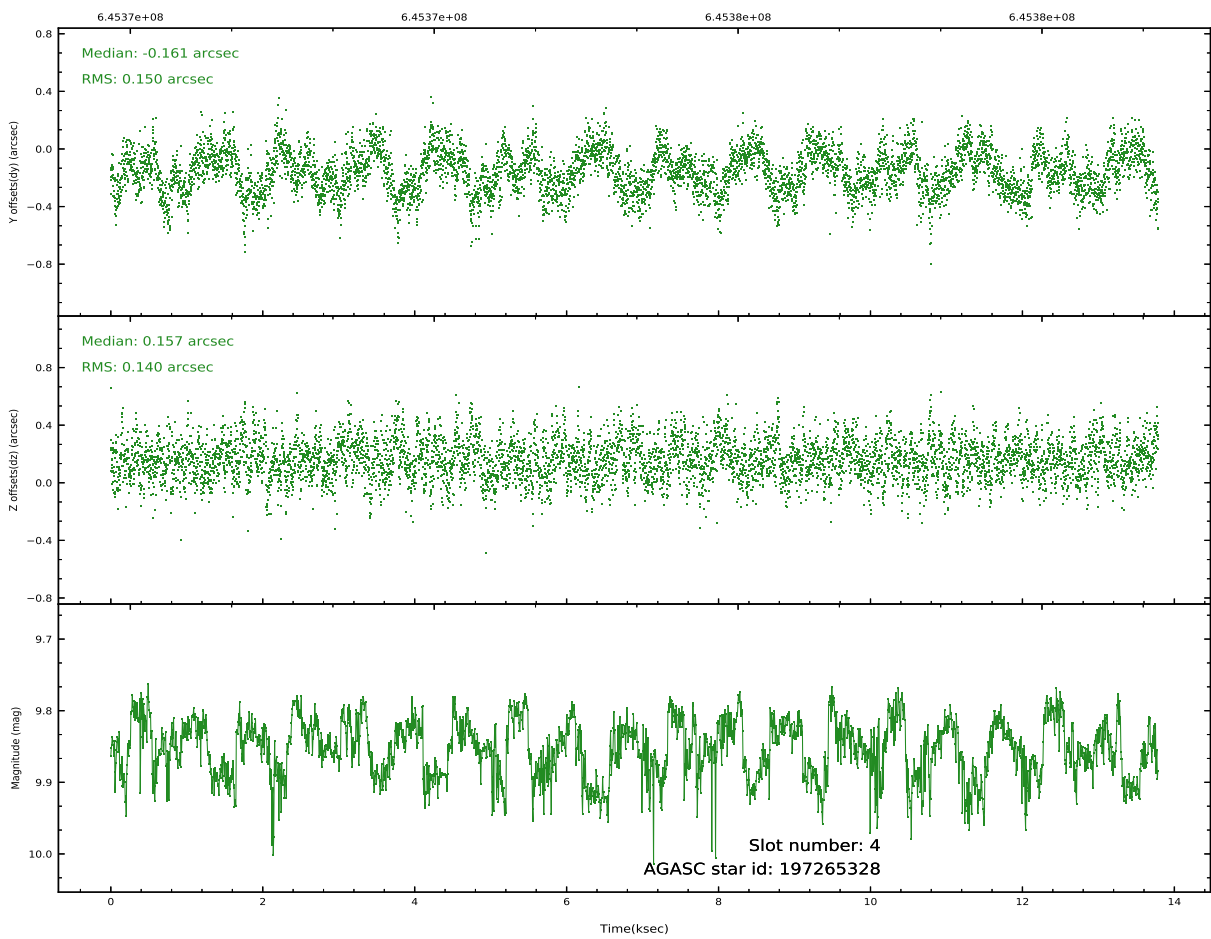
Time (s)



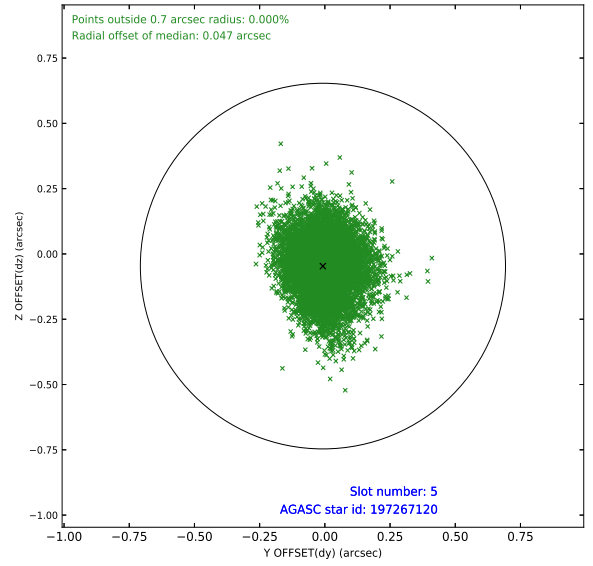
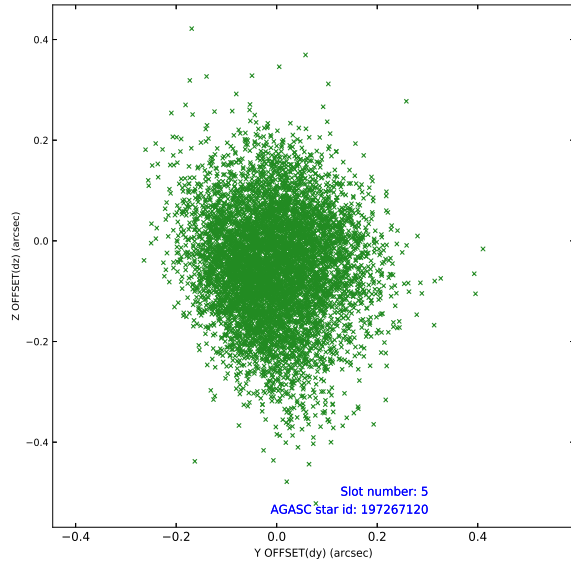
2.4.2 Slot 4



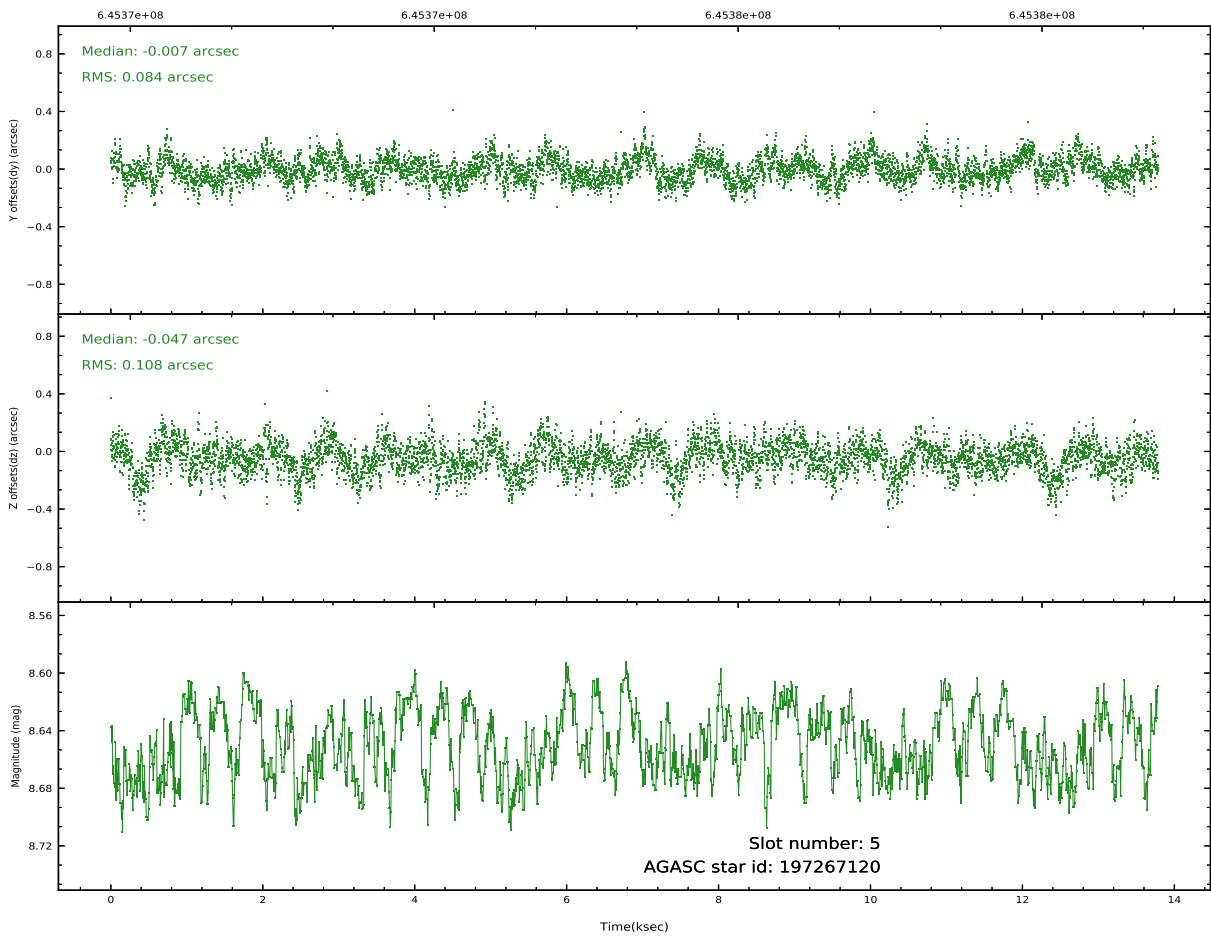
Time (s)



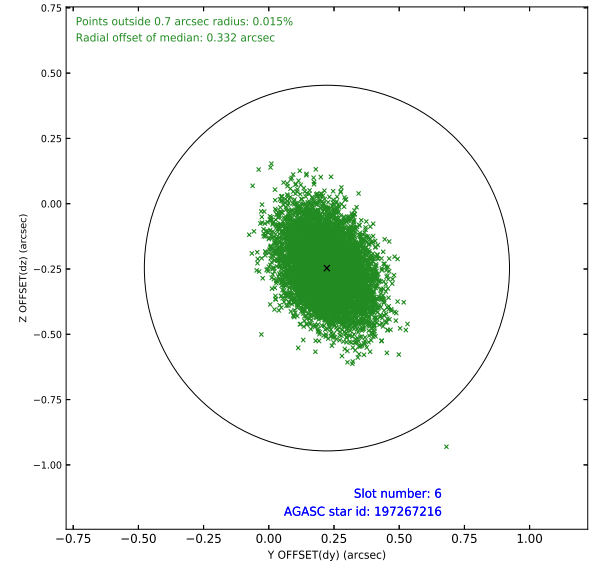
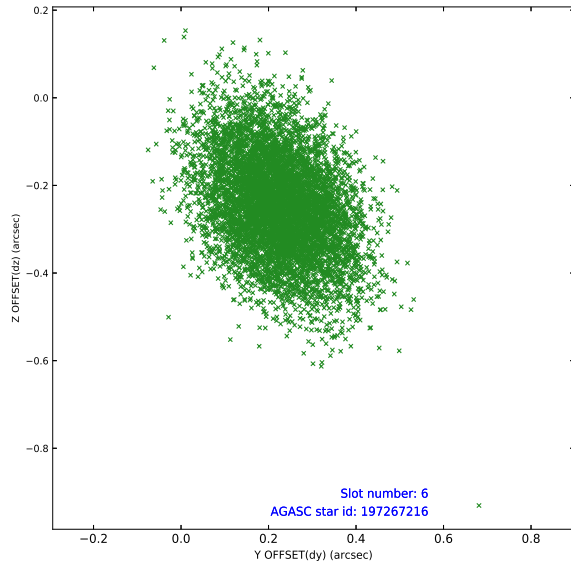
2.4.3 Slot 5



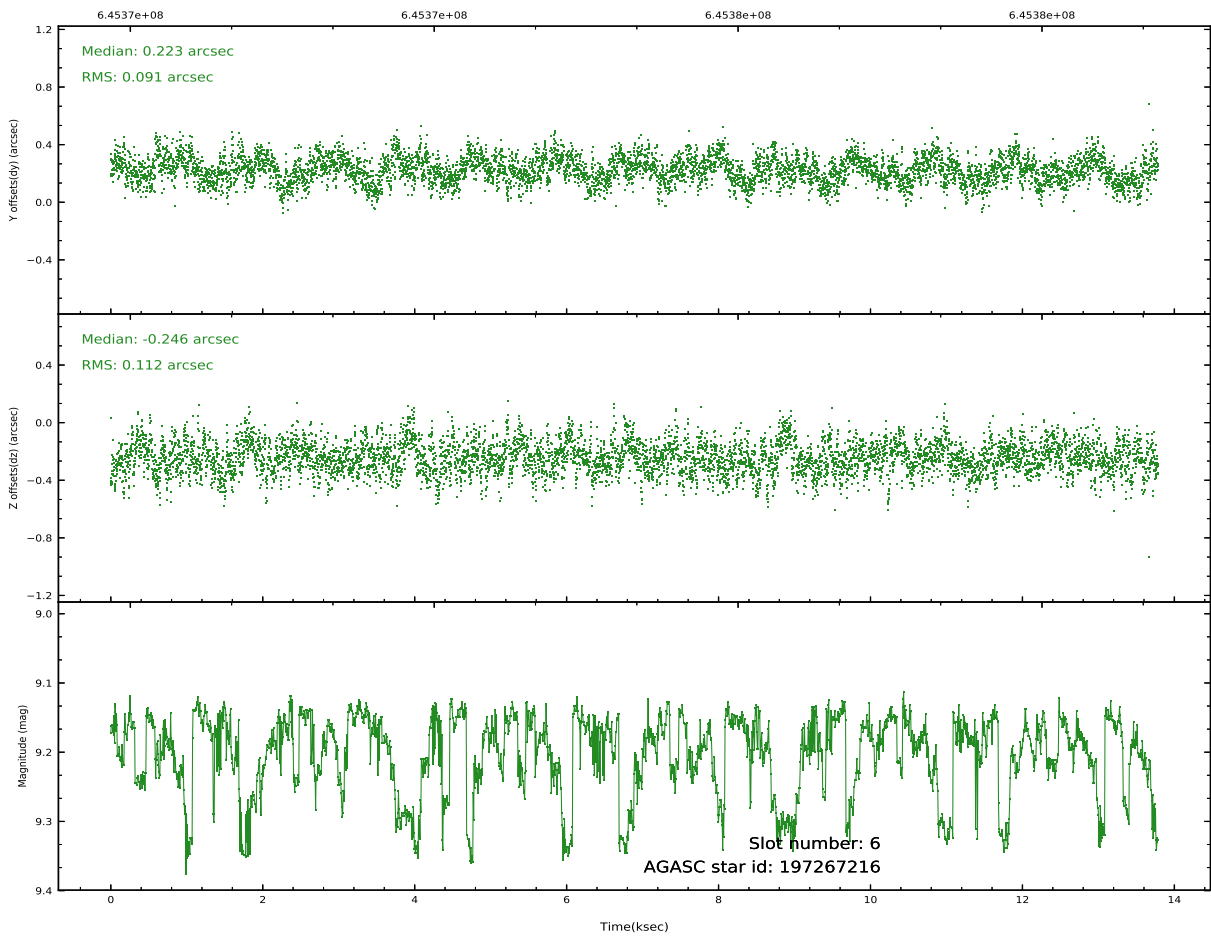
Time (s)



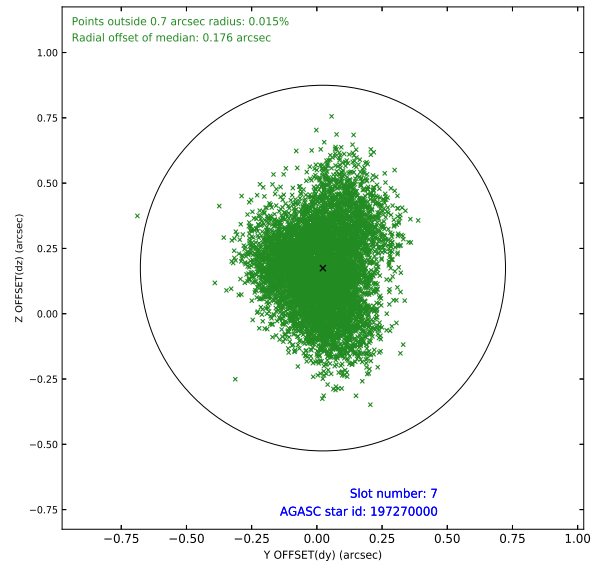
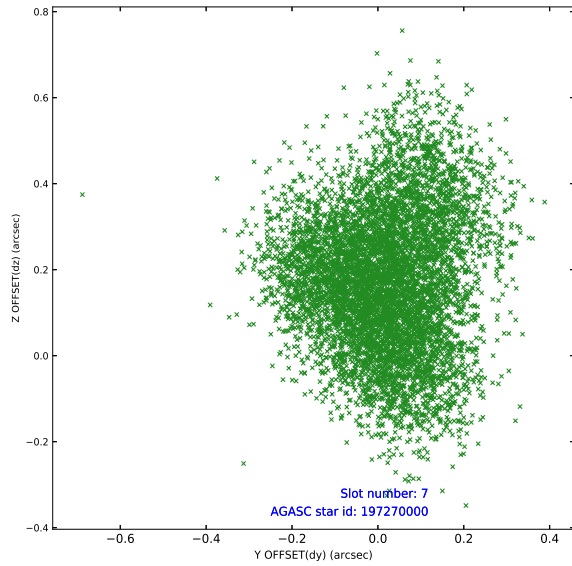
2.4.4 Slot 6



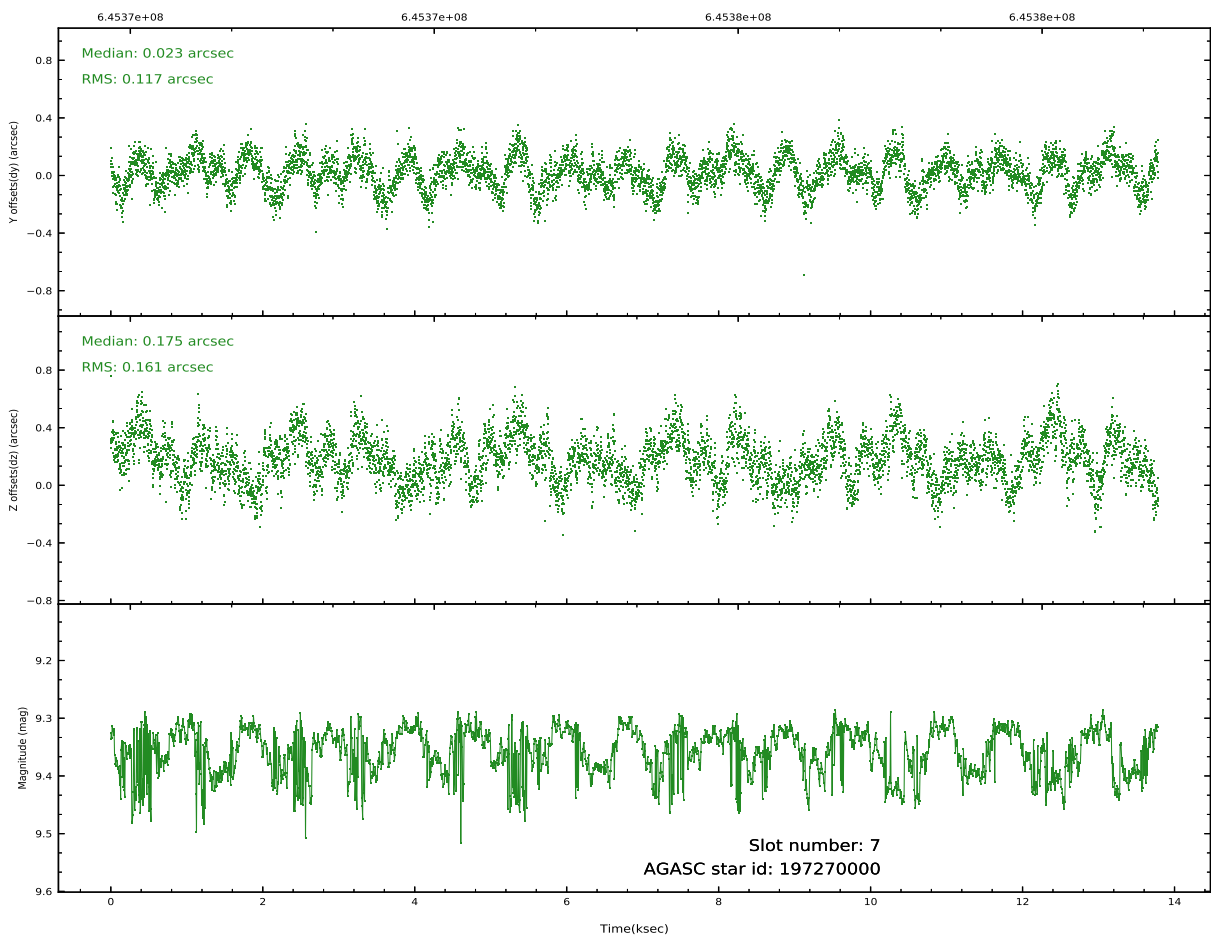
Time (s)



2.4.5 Slot 7

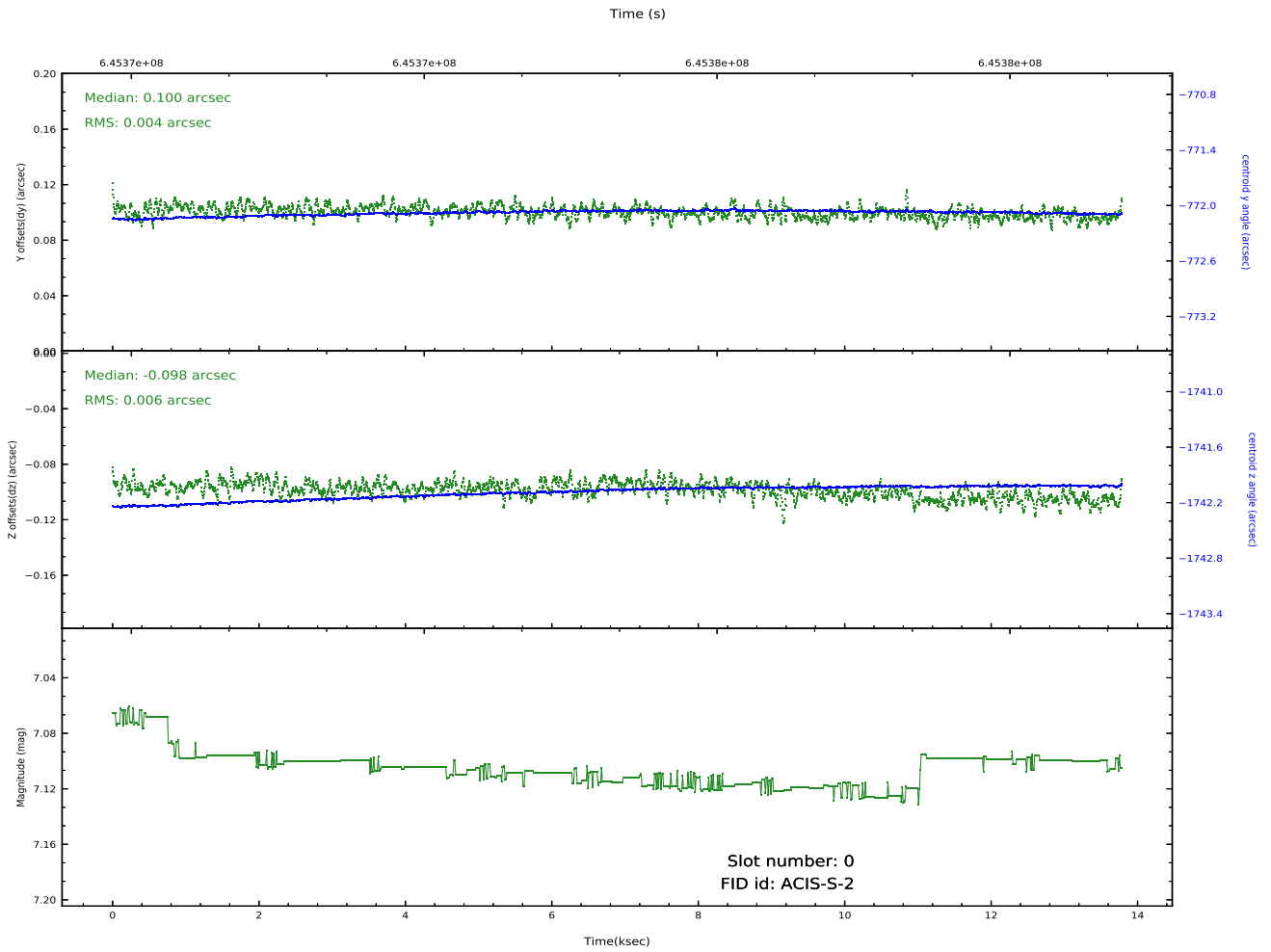
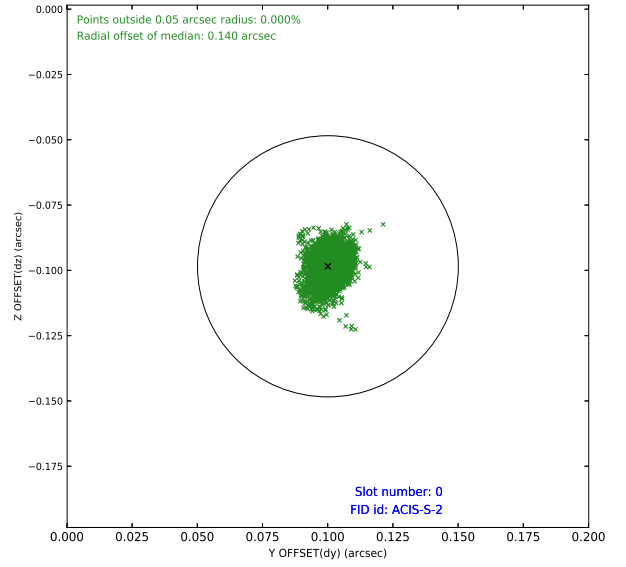
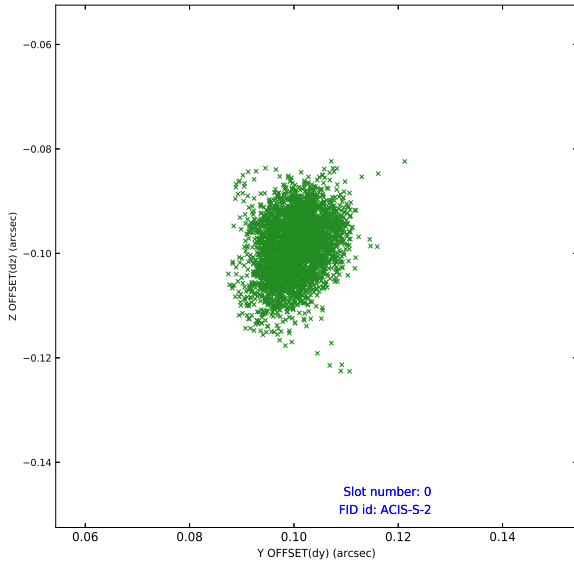


Time (s)

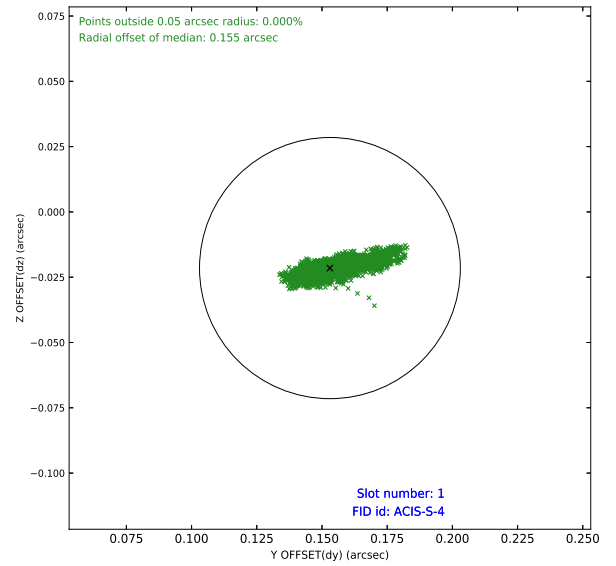
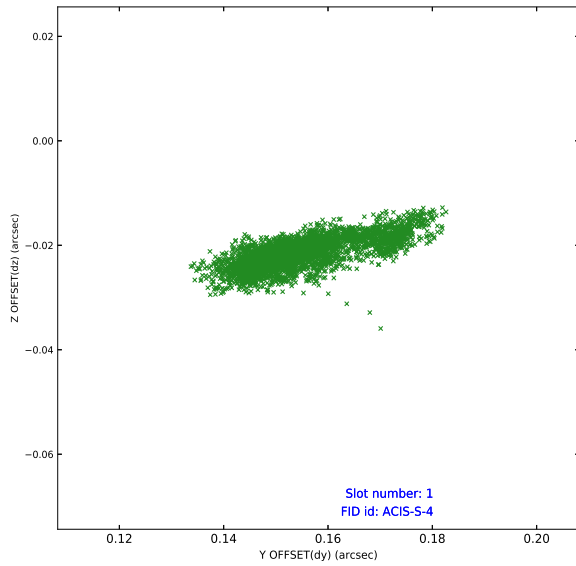


2.5 FID Slots

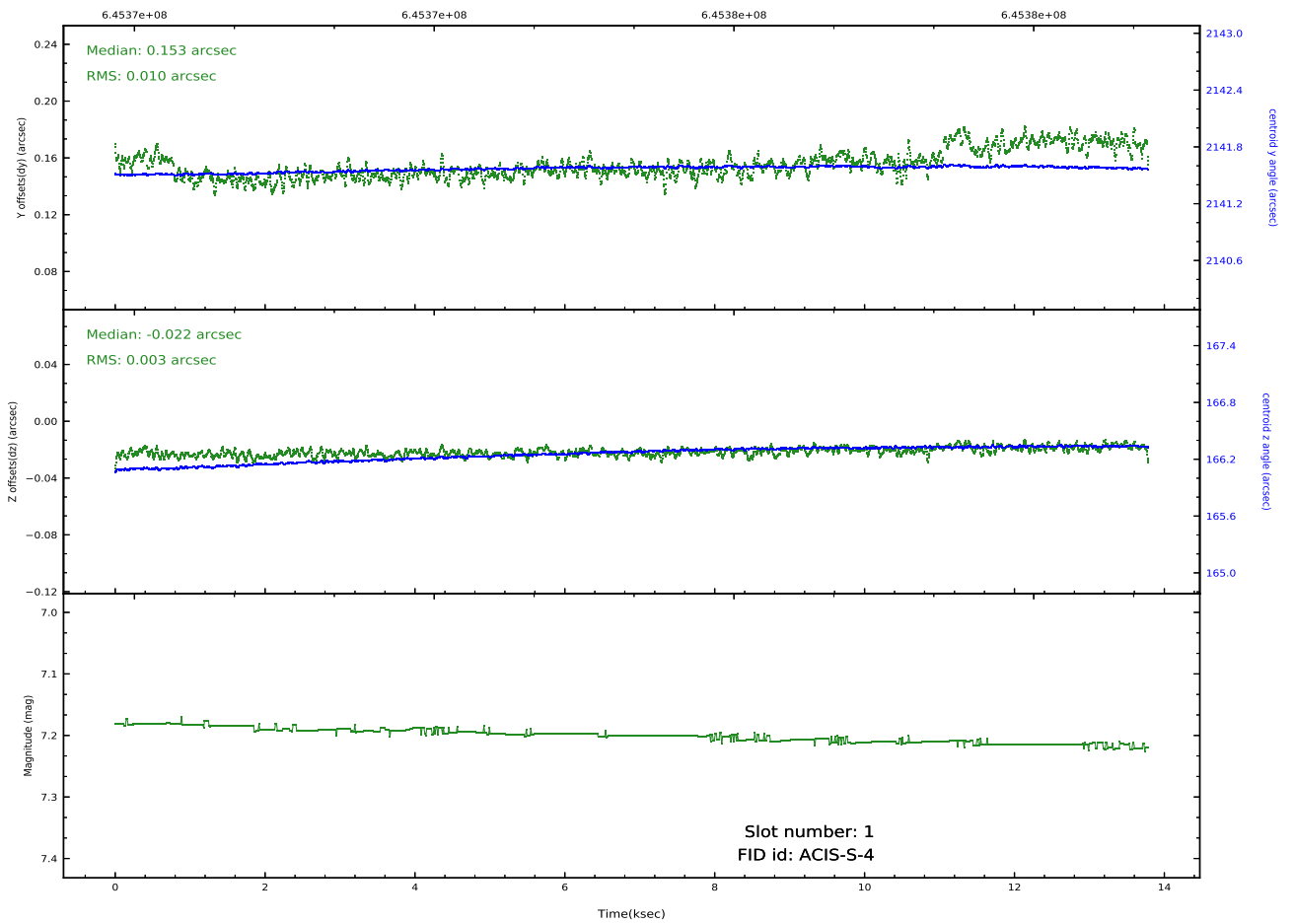
2.5.1 Slot 0



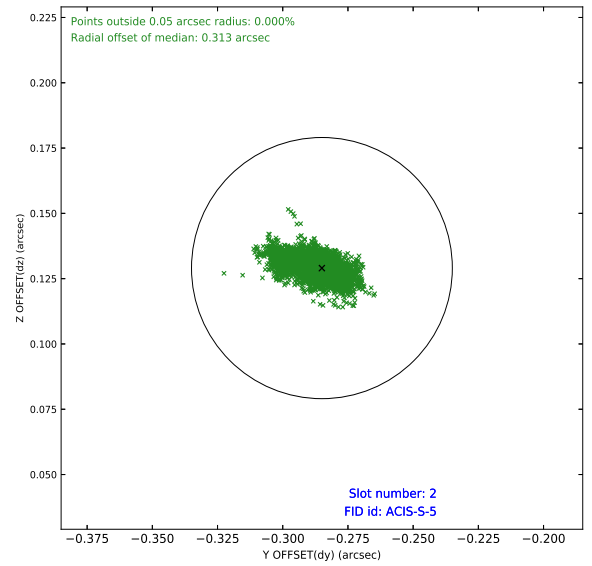
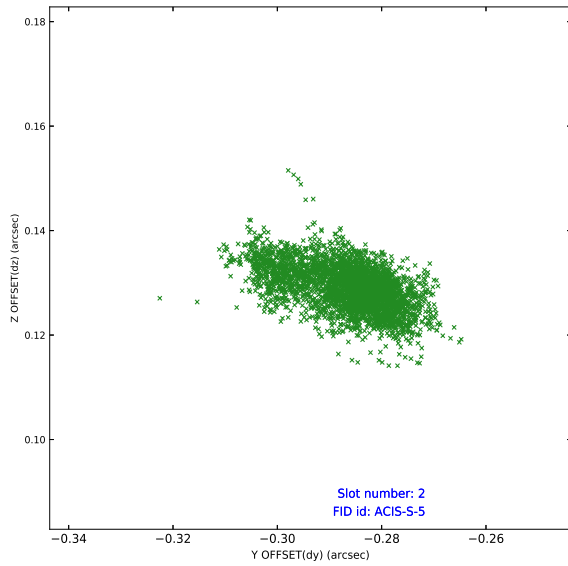
2.5.2 Slot 1



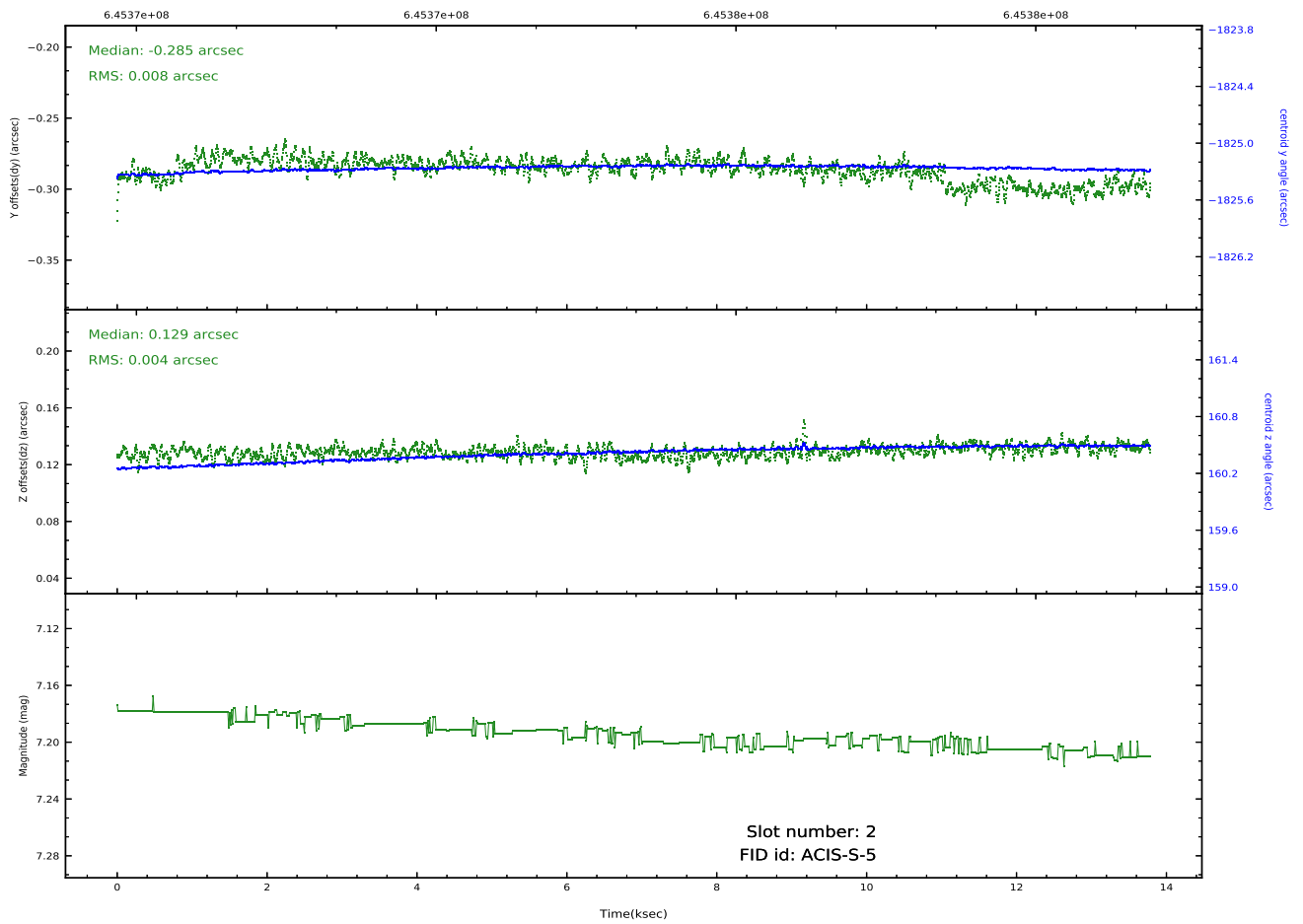
Time (s)



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	13.065209346652

A.2 Comments