

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6278 - L2 Version 4
Chandra X-Ray Center

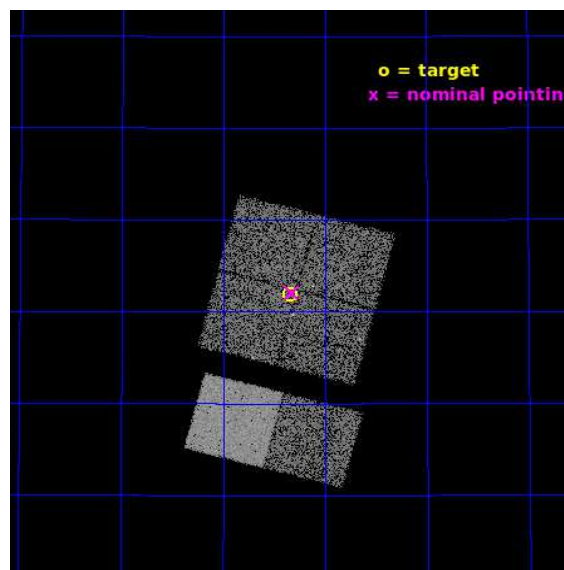
L2 Processing Date : Oct 9 2020

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1 Front

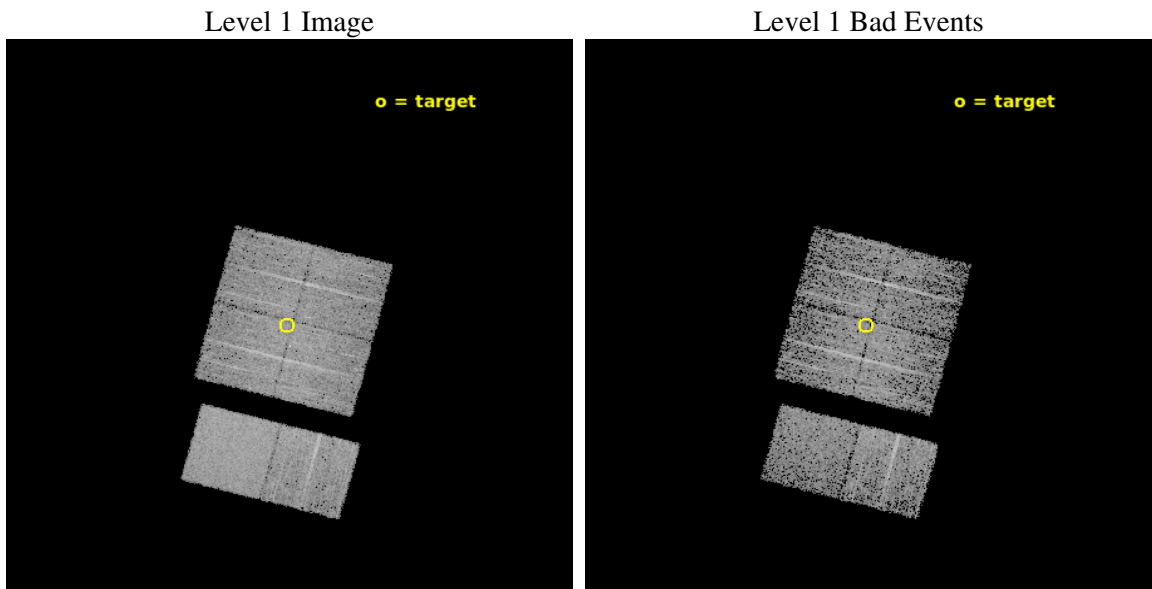
seq_num	701180	Sequence number
obs_id	6278	Observation id
title	Search for strongly obscured AGNs: support for INTEGRAL all-sky hard X-ray survey	Proposal title
observer	Prof. Rashid Sunyaev	Principal investigator
object	IGR J19473+4452	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	296.835833	Observer's specified target RA [deg]
dec_targ	44.864	Observer's specified target Dec [deg]
ra_nom	296.83142272288	Nominal RA [deg]
dec_nom	44.867938280075	Nominal Dec [deg]
roll_nom	194.70979439898	Nominal Roll [deg]
revision	4	Processing version of data
ontime	3638.3999864459	Sum of GTIs [s]
livetime	3592.3283750361	Livetime [s]
ontime0	3638.3999864459	Sum of GTIs [s]
ontime1	3638.3999864459	Sum of GTIs [s]
ontime2	3638.3999864459	Sum of GTIs [s]
ontime3	3638.3999864459	Sum of GTIs [s]
ontime6	3638.3999864459	Sum of GTIs [s]
ontime7	3638.3999864459	Sum of GTIs [s]
l2events	45377	Number of level 2 events



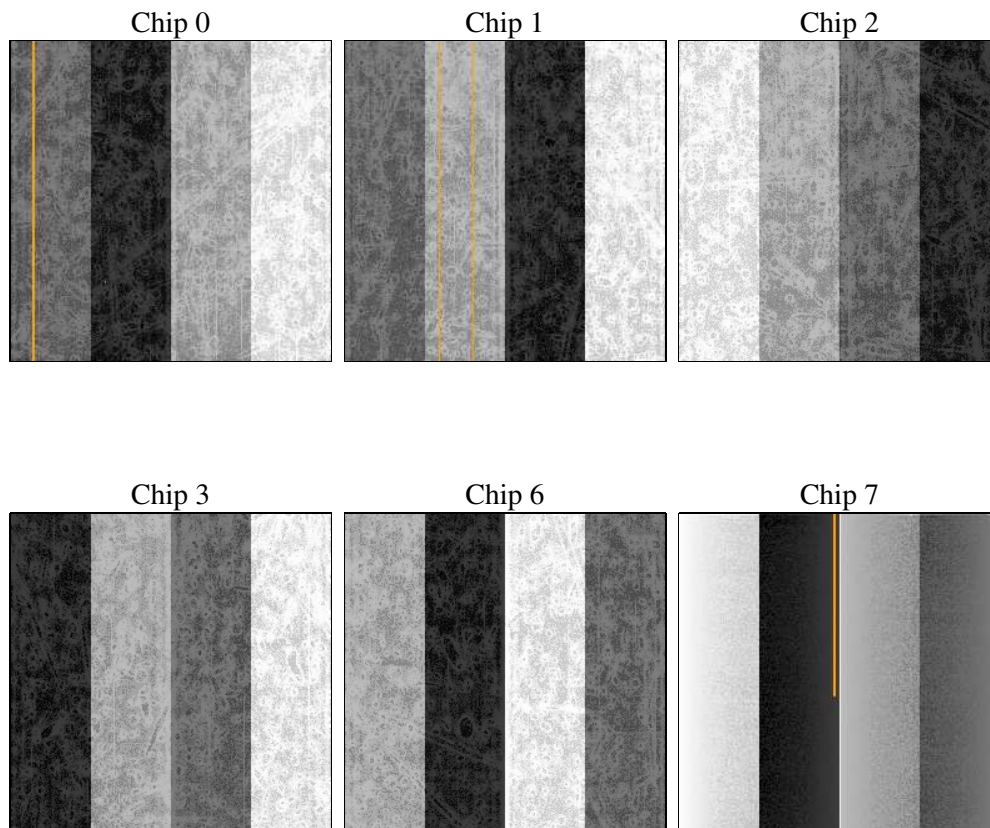
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	3466.621000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	3638.3999864459	Sum of GTIs [s]
caldbver	4.9.2	 	ontime0	3638.3999864459	Sum of GTIs [s]
date	2020-10-09T14:43:31	Date and time of file creation	ontime1	3638.3999864459	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	3638.3999864459	Sum of GTIs [s]
			ontime3	3638.3999864459	Sum of GTIs [s]
			ontime6	3638.3999864459	Sum of GTIs [s]
			ontime7	3638.3999864459	Sum of GTIs [s]
			l1events	224025	Number of level 1 events

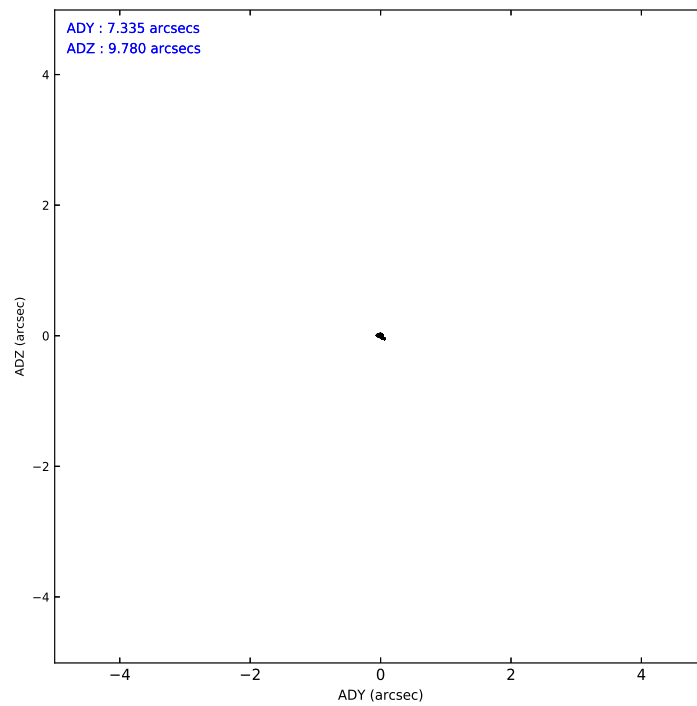
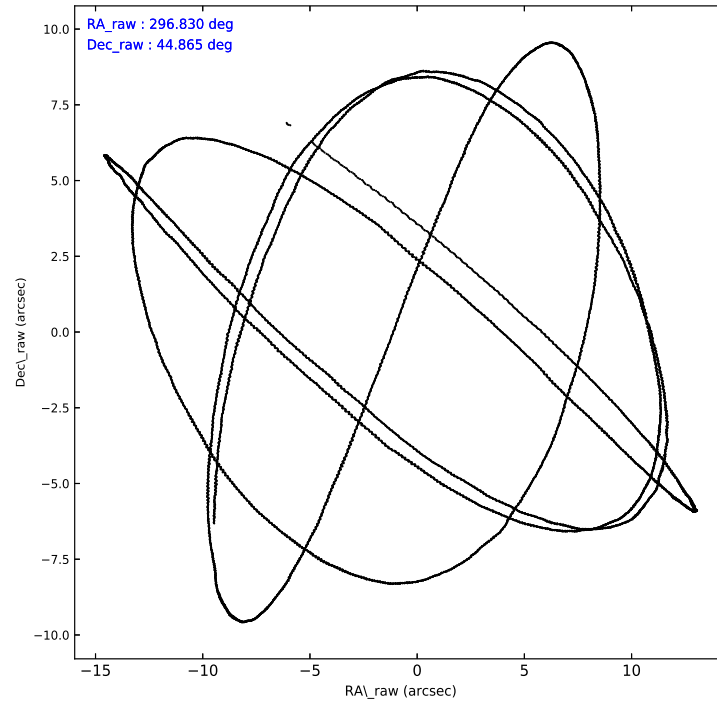
2.1.4 Events

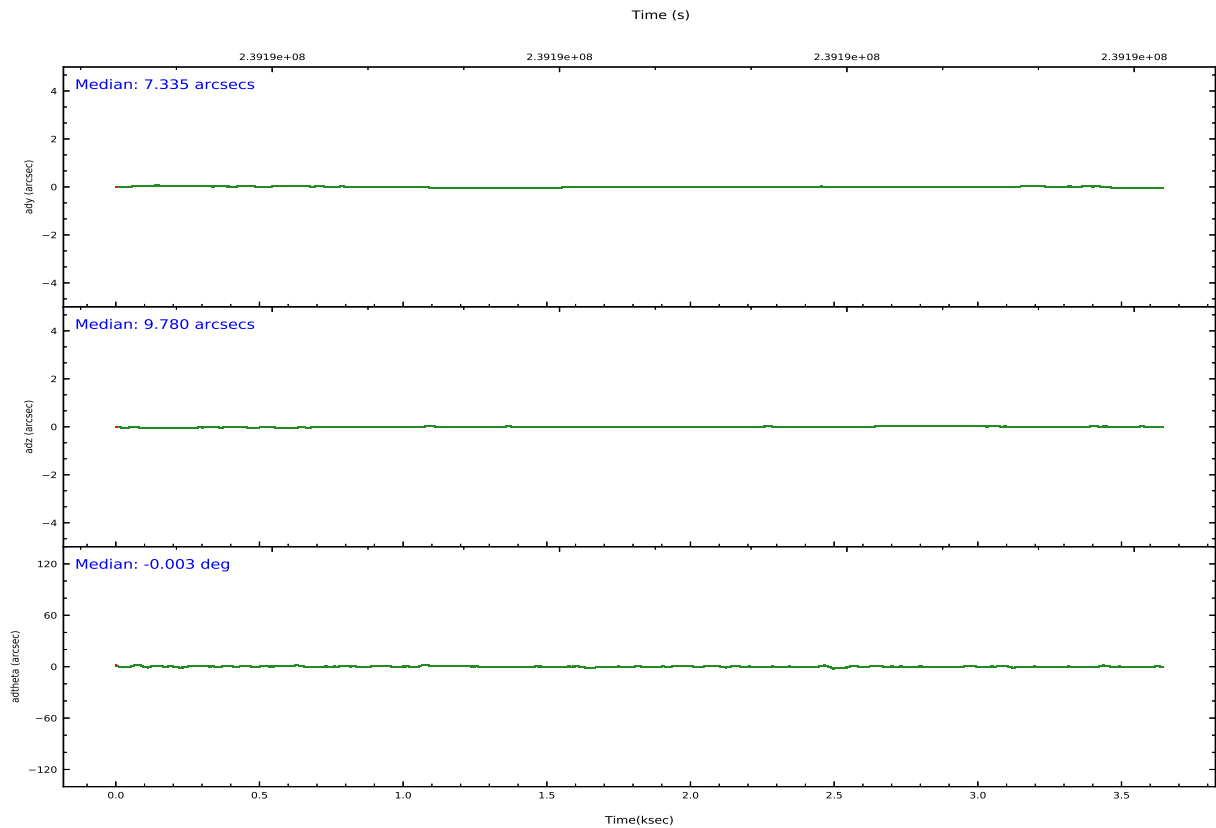
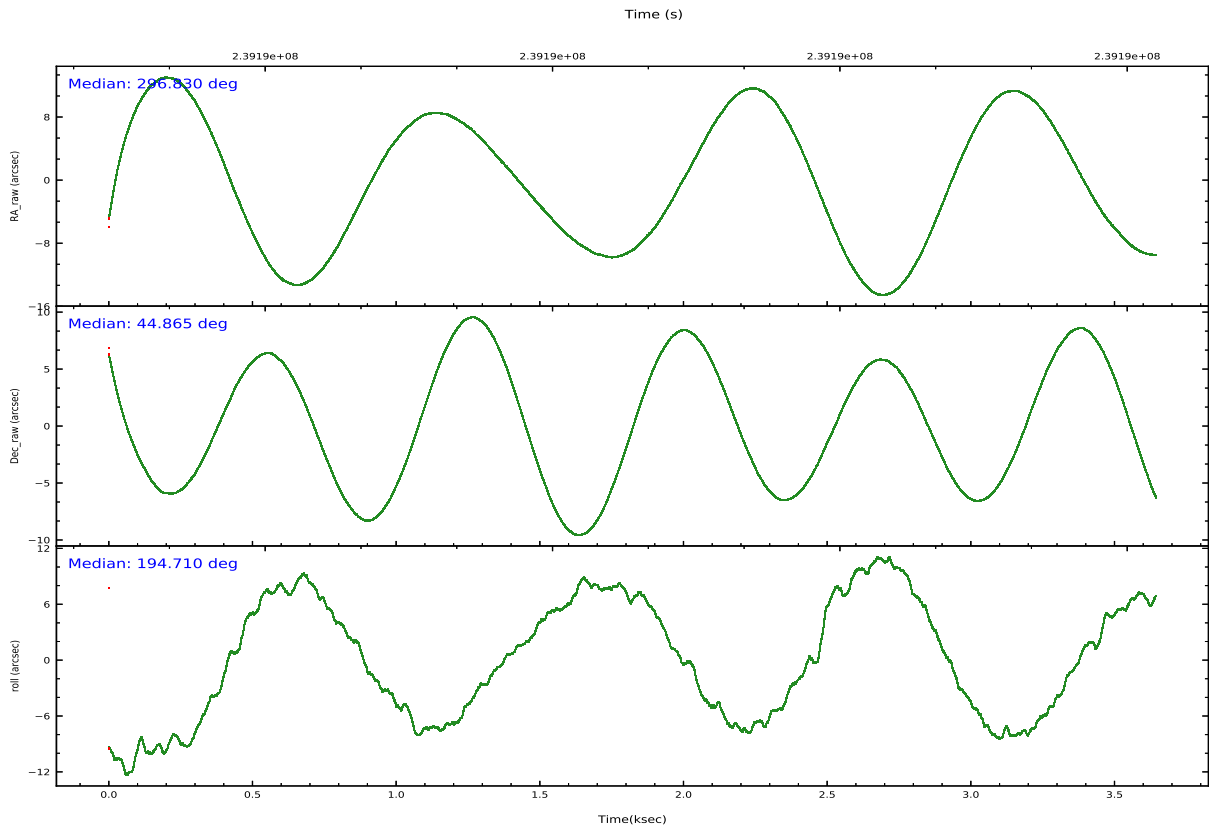
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	31380	33309	38179	35555	37743	47859	grade 0 events	3447	2997	3577	3147	3224	2278
rejected events	25270	27461	32022	29921	31817	27524		10%	8%	9%	8%	8%	4%
rejected %	80%	82%	83%	84%	84%	57%	grade 1 events	31	23	46	21	22	34
								0%	0%	0%	0%	0%	0%
							grade 2 events	1414	1367	1370	1191	1392	4453
								4%	4%	3%	3%	3%	9%
							grade 3 events	447	472	436	463	427	1931
								1%	1%	1%	1%	1%	4%
							grade 4 events	429	450	479	408	431	1821
								1%	1%	1%	1%	1%	3%
							grade 5 events	1192	1284	1211	1371	1497	3947
								3%	3%	3%	3%	3%	8%
							grade 6 events	977	1103	952	984	1090	12220
								3%	3%	2%	2%	2%	25%
							grade 7 events	23443	25613	30108	27970	29660	21175
								74%	76%	78%	78%	78%	44%

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	296.856713	296.83142272288	Subarray requested	NONE	NONE
[deg] Pointing Dec	44.884004	44.867938280075	Alternating exposures requested	N	N
[deg] Pointing Roll	194.480839	194.70979439898	[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)	239189635.184000	239188352.4046			
Observation start date	2005-07-31T09:32:51	2005-07-31T09:12:32			
[s] Observation end time (MET)	239193102.184000	239193337.49232			
Observation end date	2005-07-31T10:30:38	2005-07-31T10:35:37			
Read mode	TIMED	TIMED			

2.3 Aspect





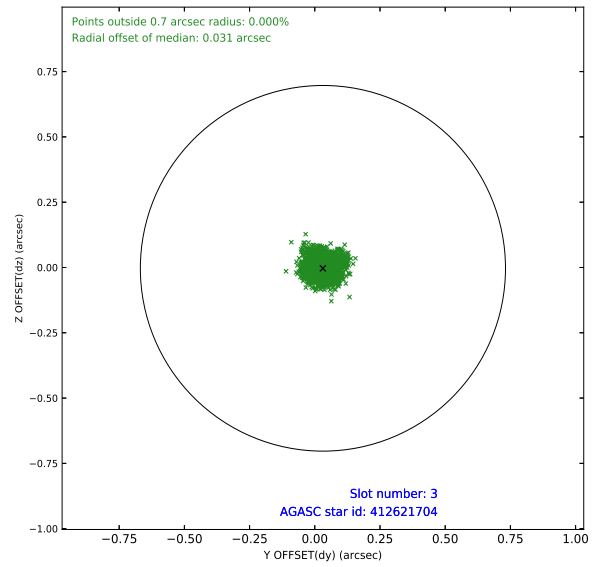
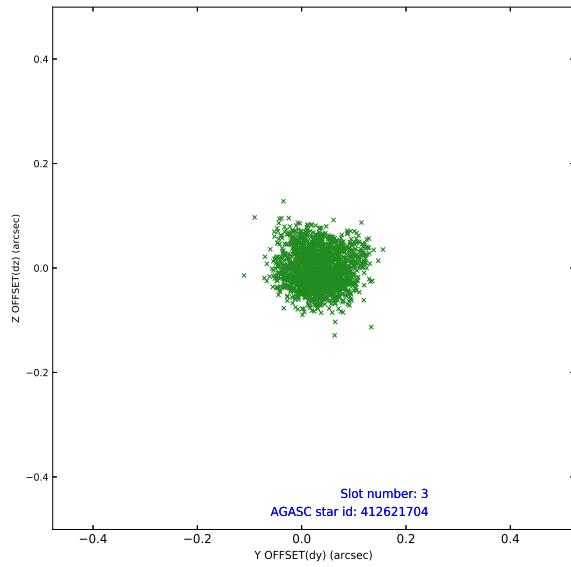
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-4	7.18	890	1.000	0.175	0.014	0.007	0.012	0.000000	0.000000	2152.46	1066
1	FID		ACIS-I-5	7.23	889	1.000	-0.290	0.007	0.005	0.010	0.000000	0.000000	-1813.74	1065
2	FID		ACIS-I-6	7.26	890	1.000	0.016	0.047	0.008	0.014	0.000000	0.000000	396.01	1709
3	GUIDE	used	412621704	7.13	1779	1.000	0.031	-0.003	0.059	0.090	296.183439	44.928913	1619.74	-592
4	GUIDE	used	412624880	8.45	1776	1.000	0.027	0.004	0.054	0.087	296.167920	44.298496	2245.17	1589
5	GUIDE	used	412628184	7.19	1779	1.000	-0.029	-0.015	0.051	0.080	296.672191	44.348531	942.89	1748
6	GUIDE	used	466223704	8.26	1779	1.000	-0.034	0.060	0.059	0.095	297.047341	45.178894	-732.97	-906
7	GUIDE	used	412616872	8.30	1778	1.000	0.002	-0.046	0.050	0.080	297.415564	44.844724	-1346.78	488

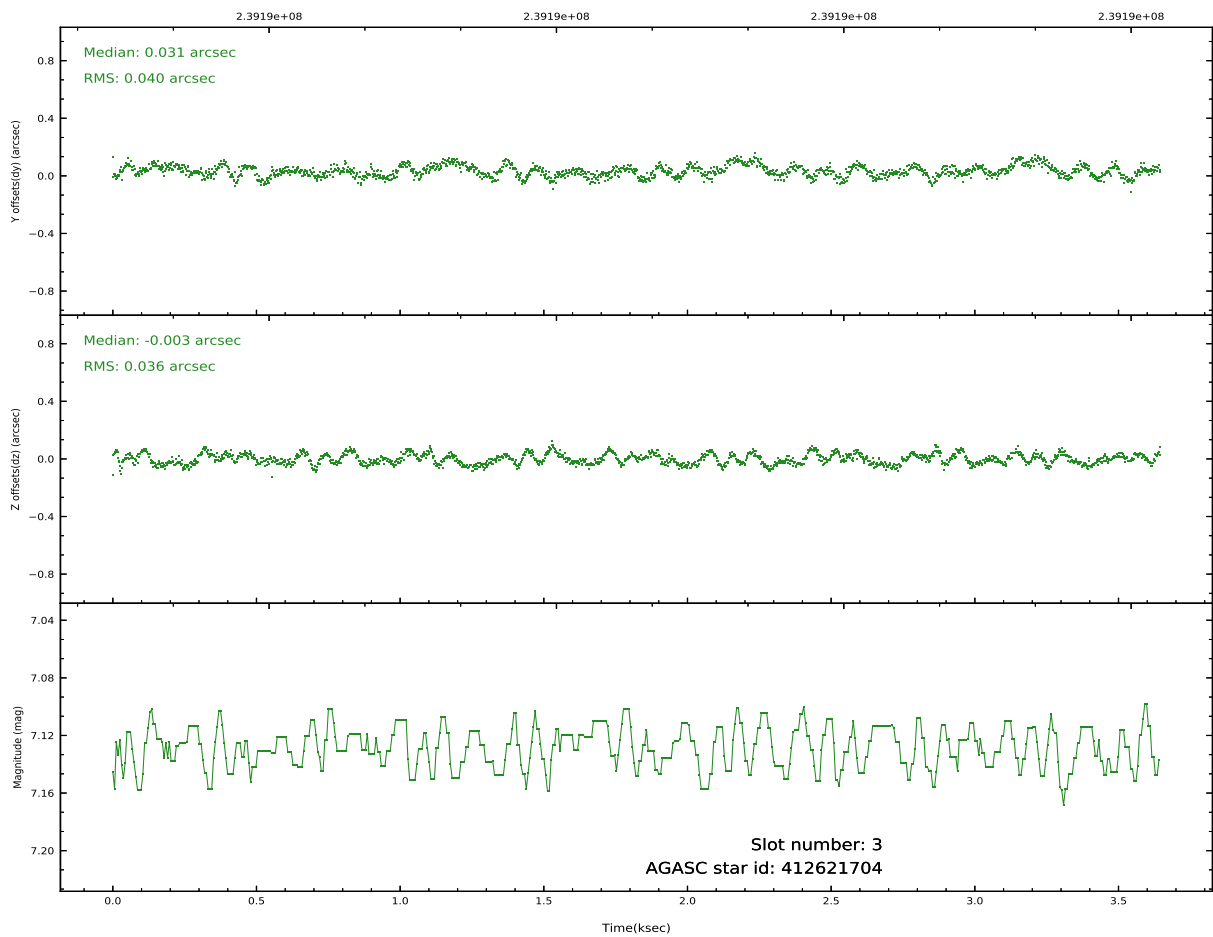
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2.4 Star Slots

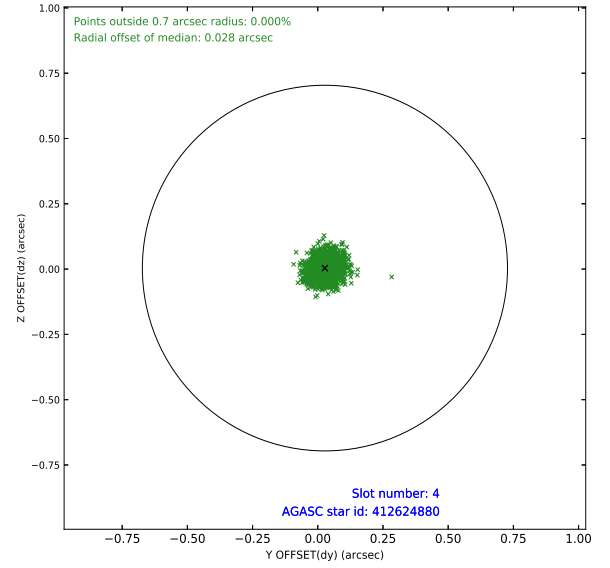
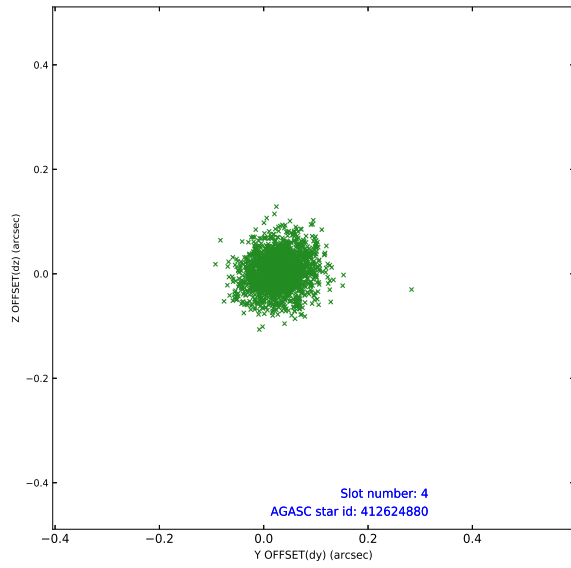
2.4.1 Slot 3



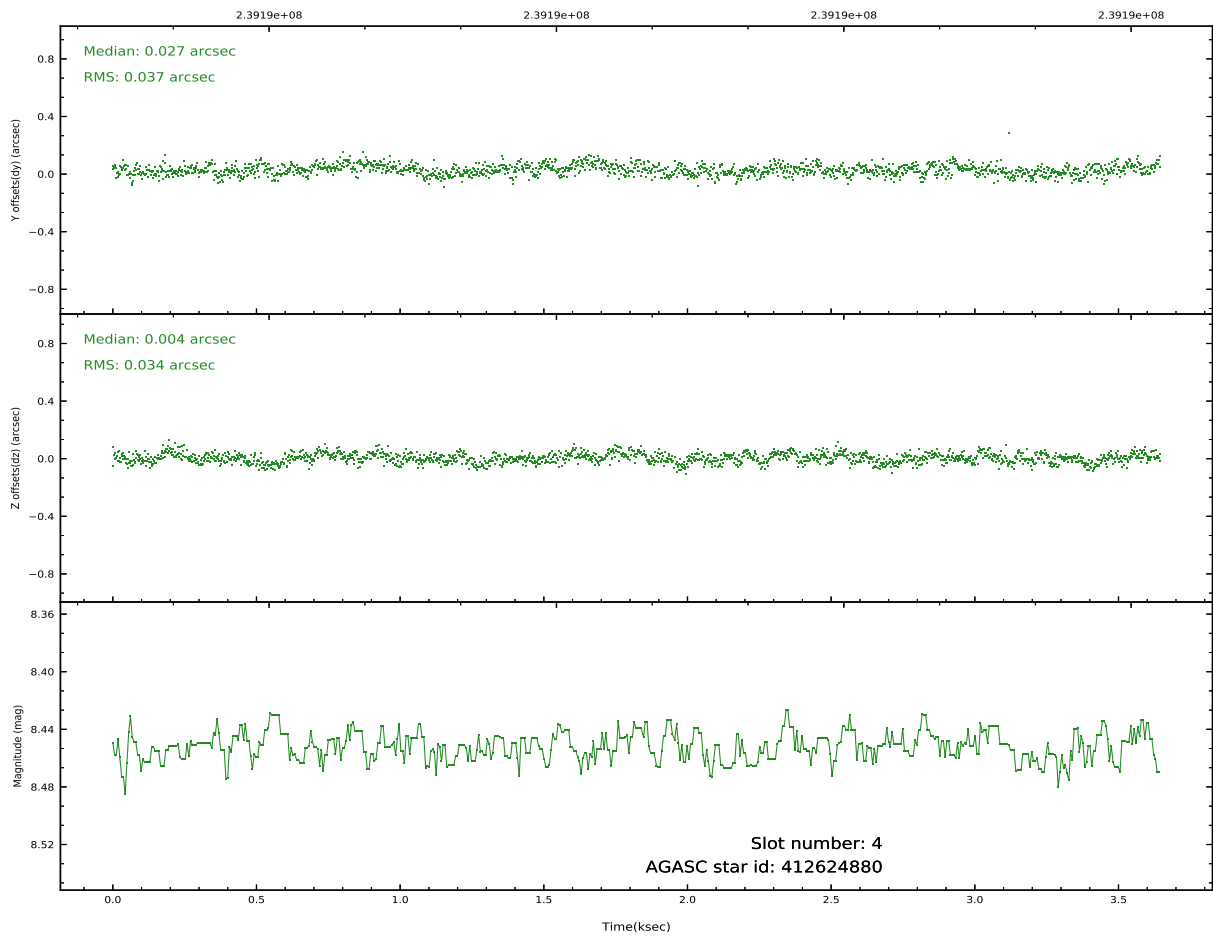
Time (s)



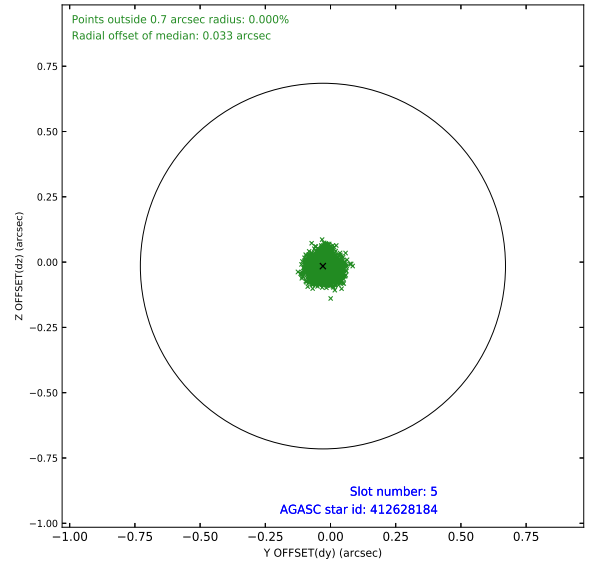
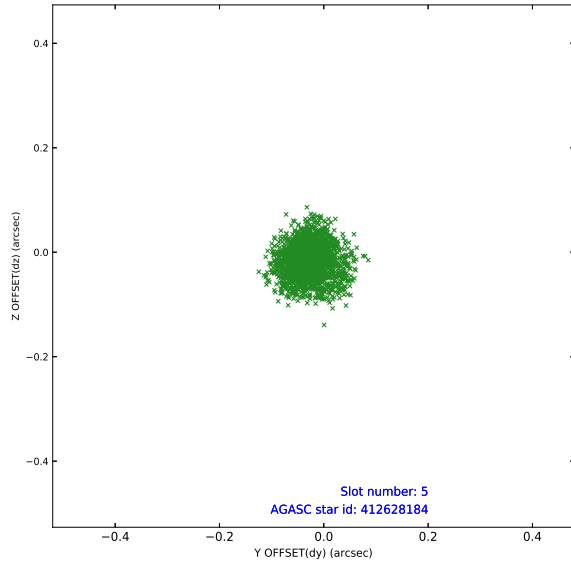
2.4.2 Slot 4



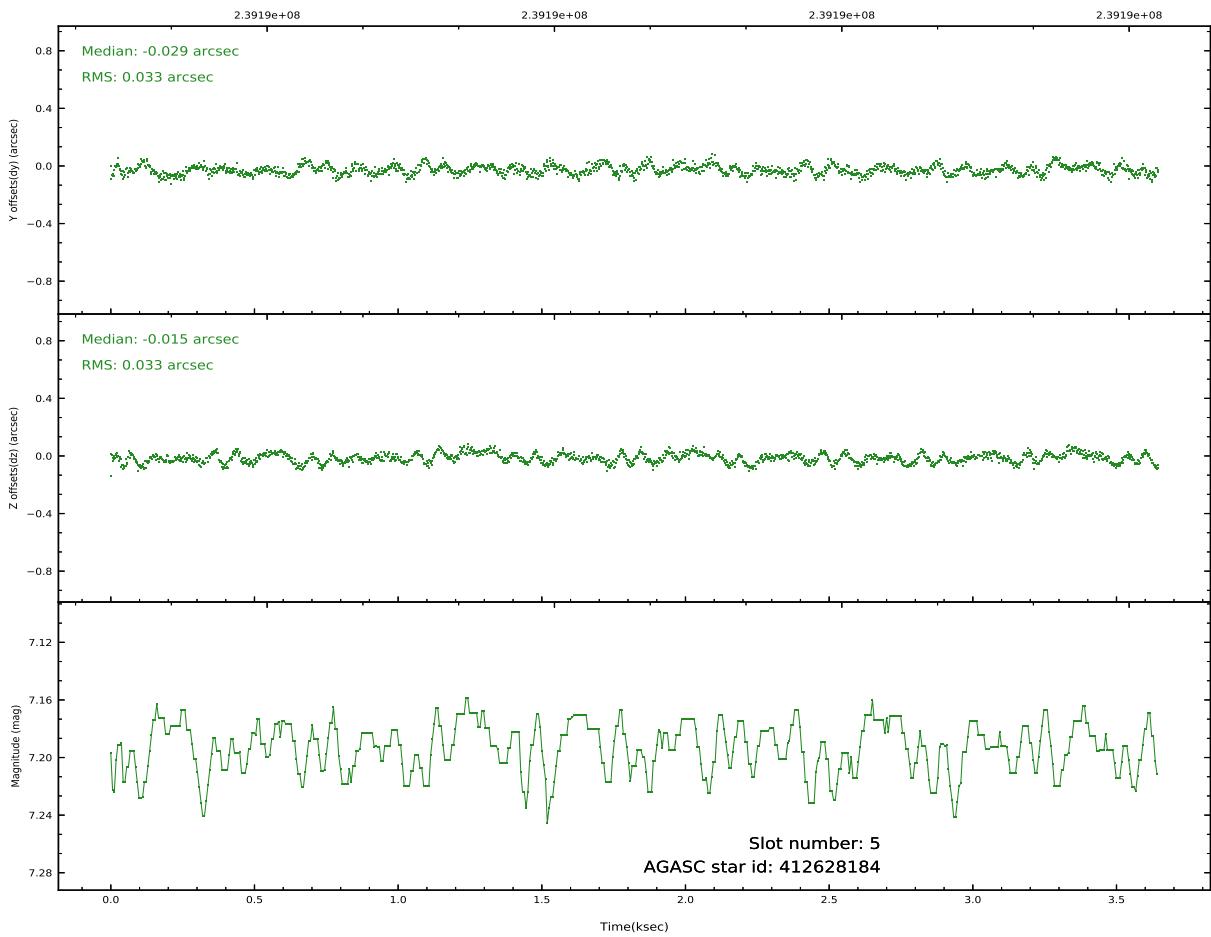
Time (s)



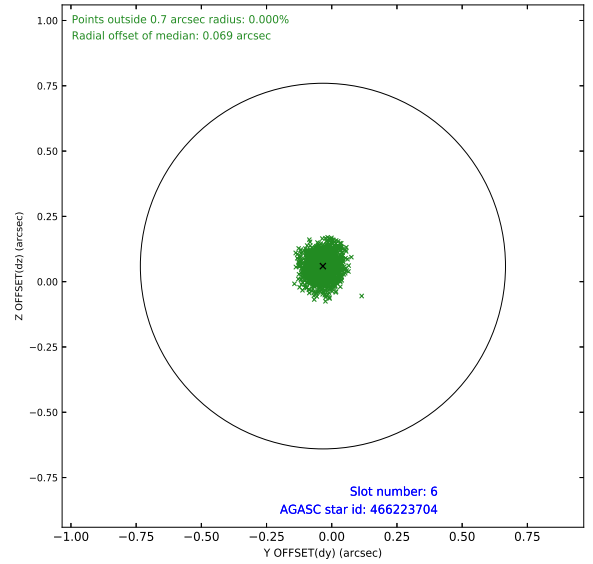
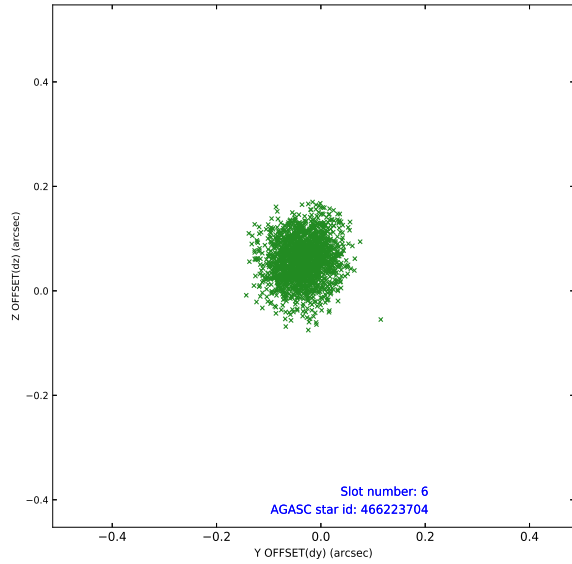
2.4.3 Slot 5



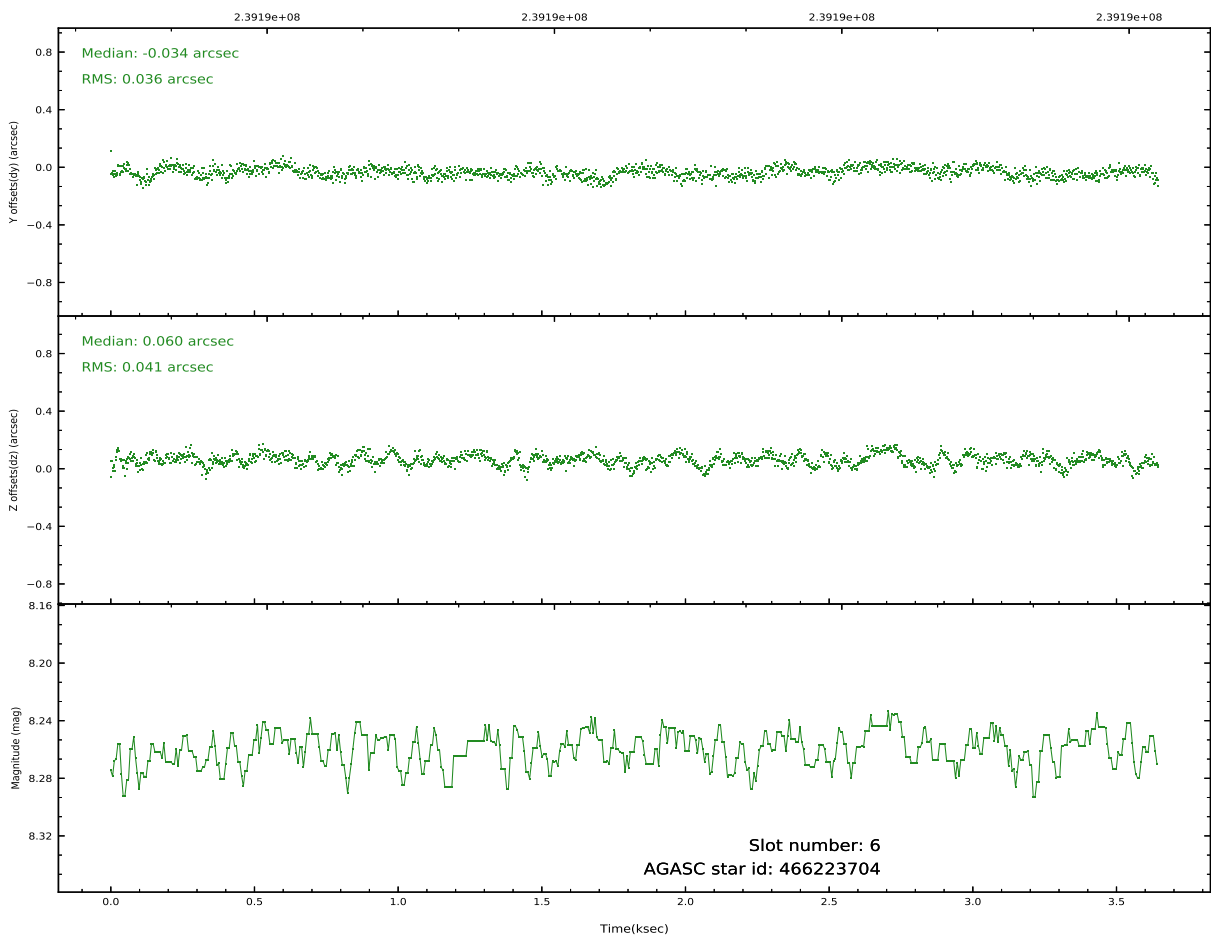
Time (s)



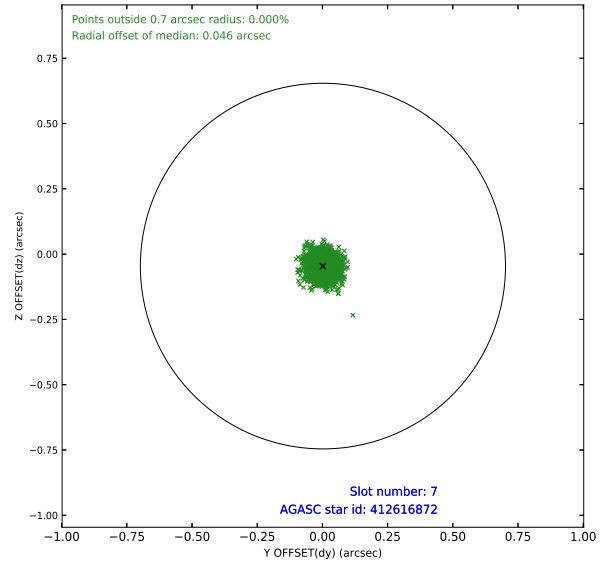
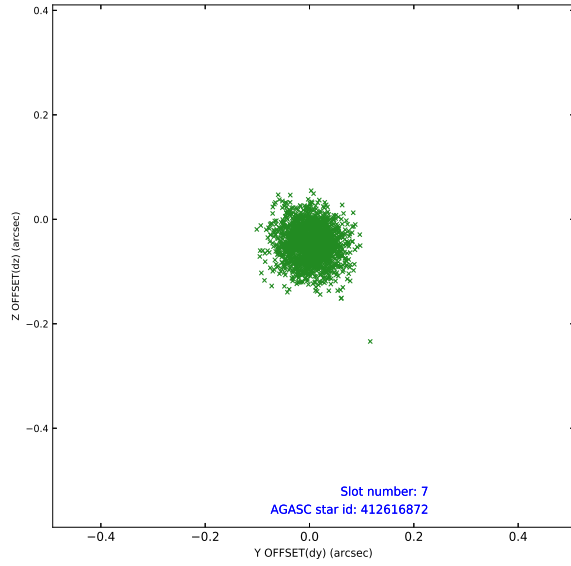
2.4.4 Slot 6



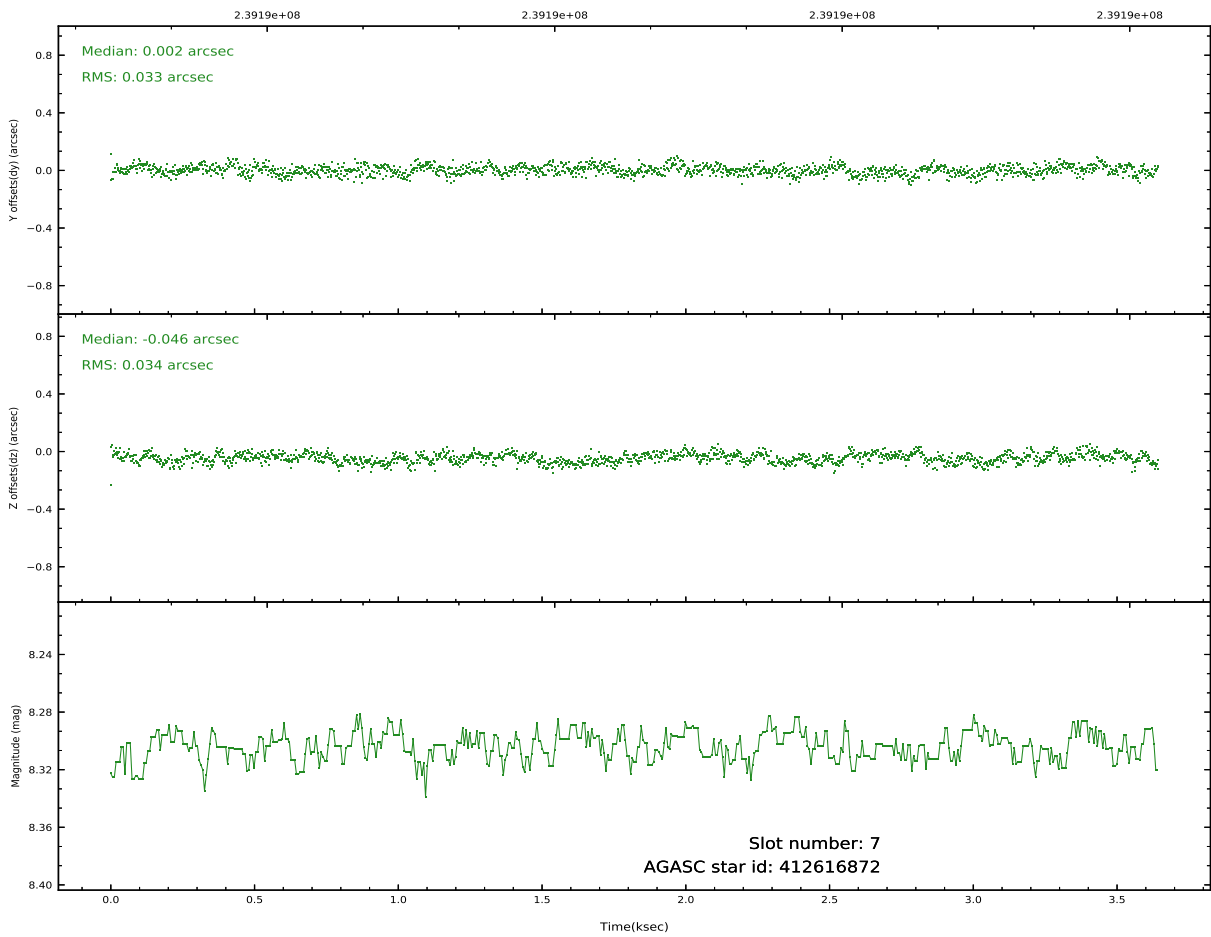
Time (s)



2.4.5 Slot 7

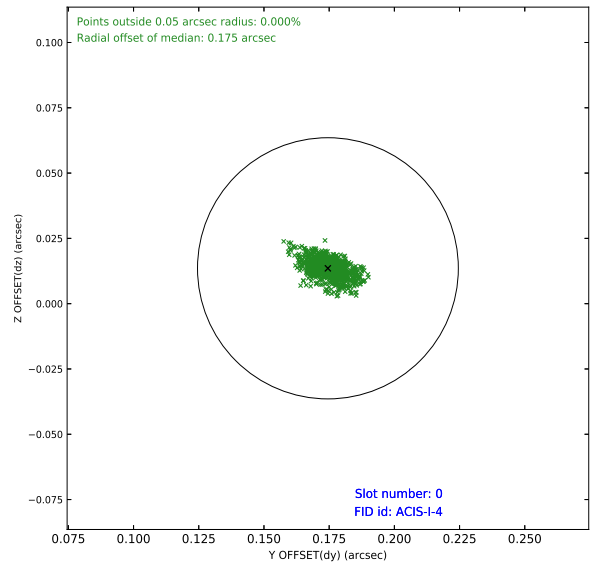
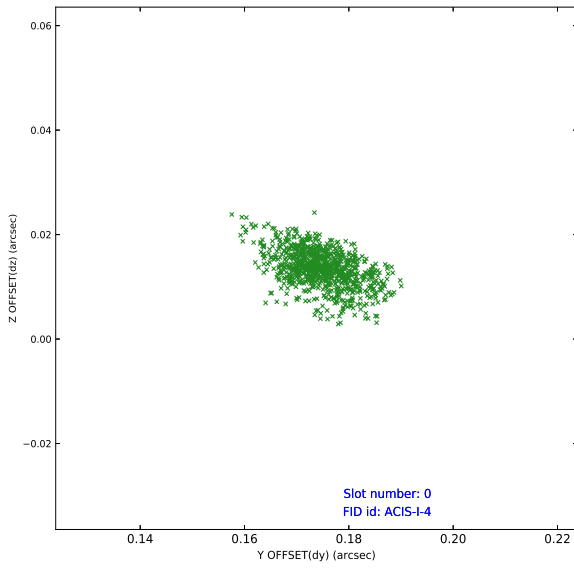


Time (s)

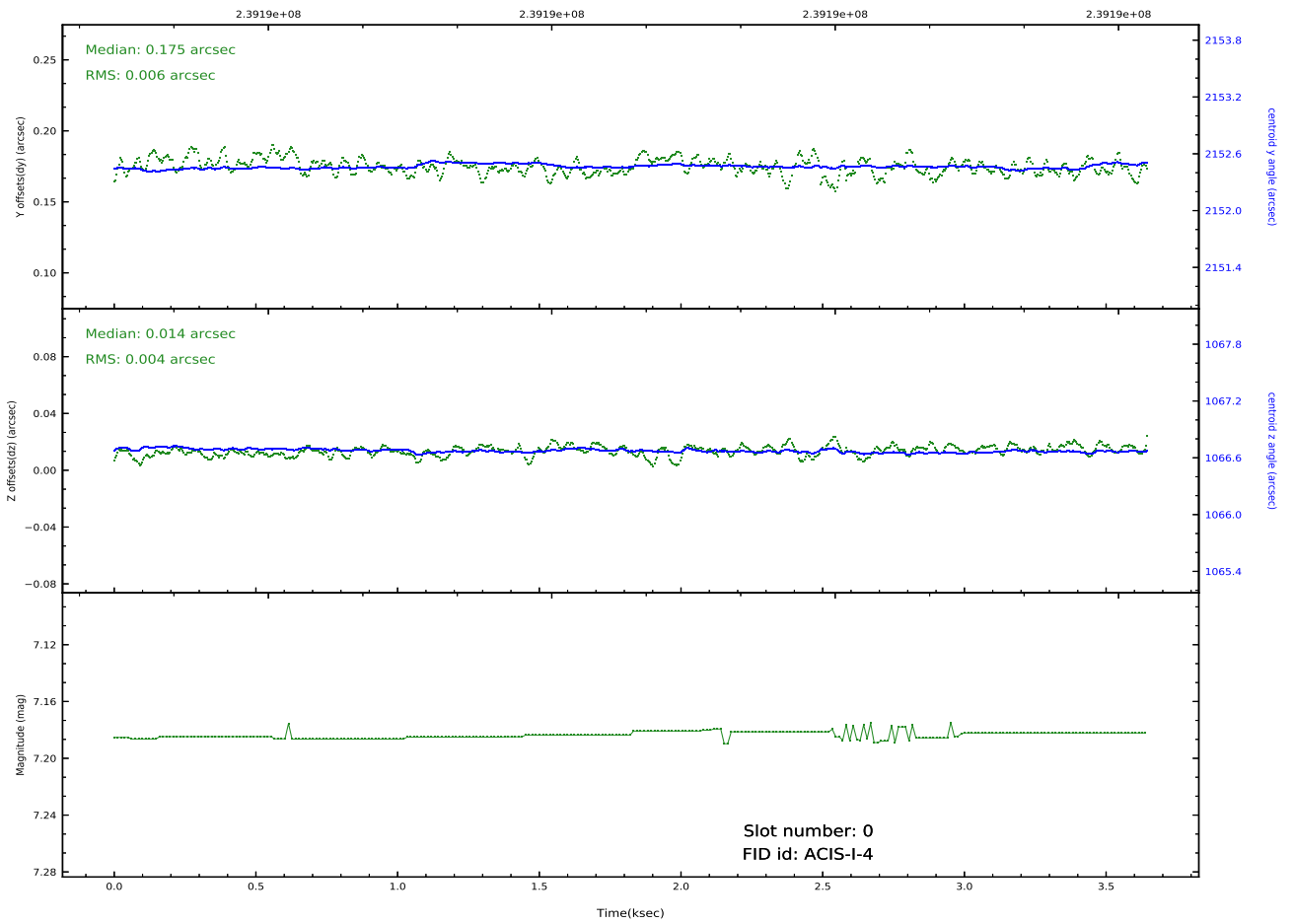


2.5 FID Slots

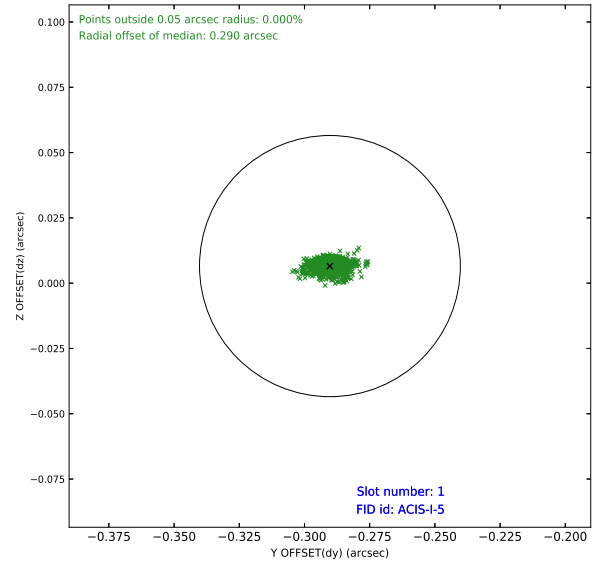
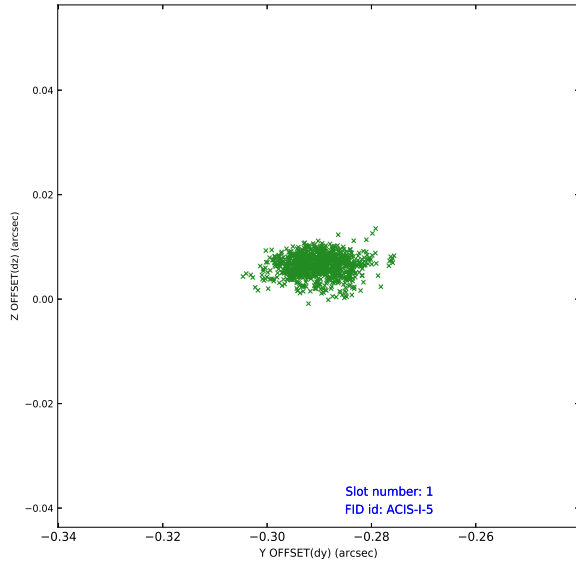
2.5.1 Slot 0



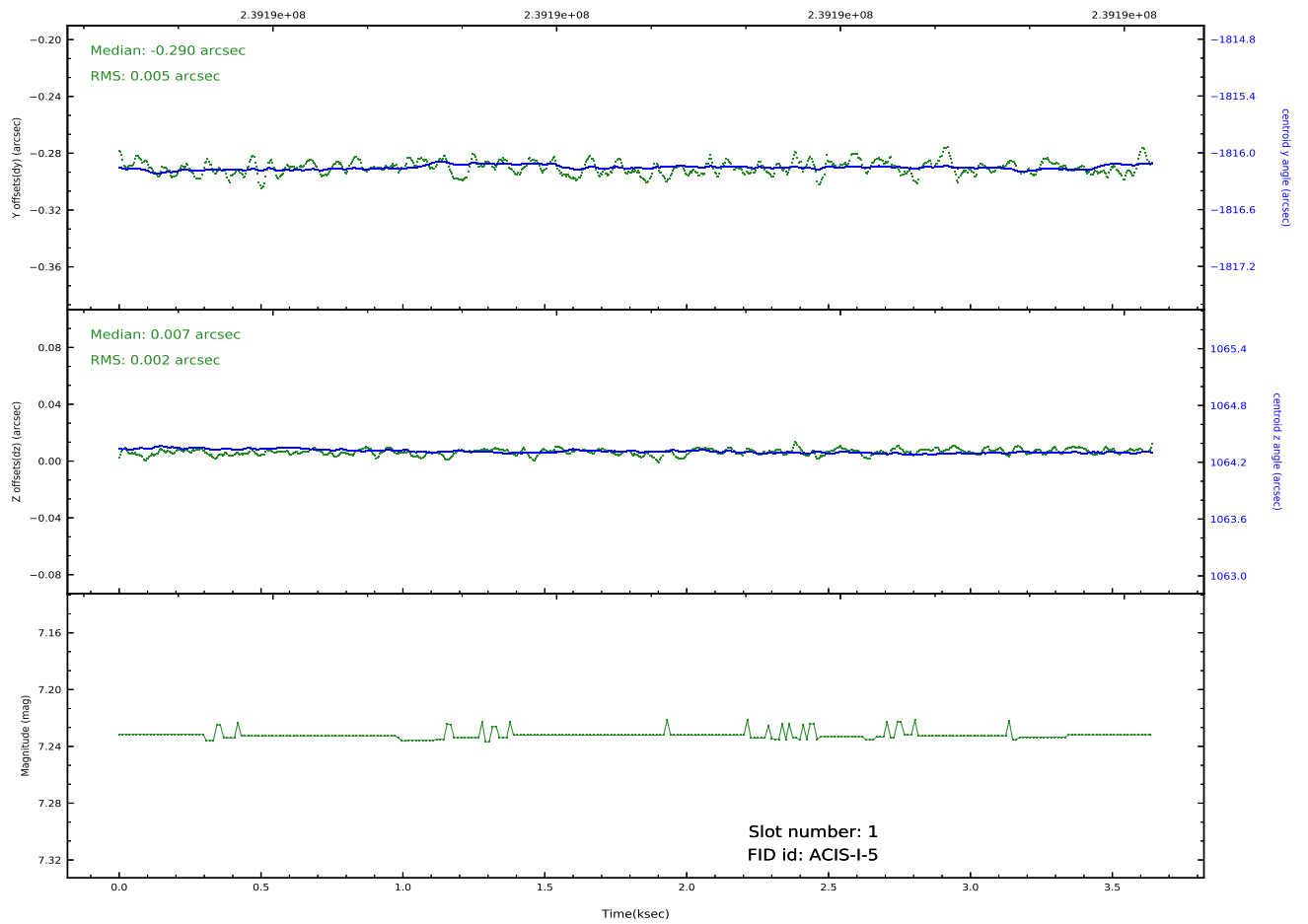
Time (s)



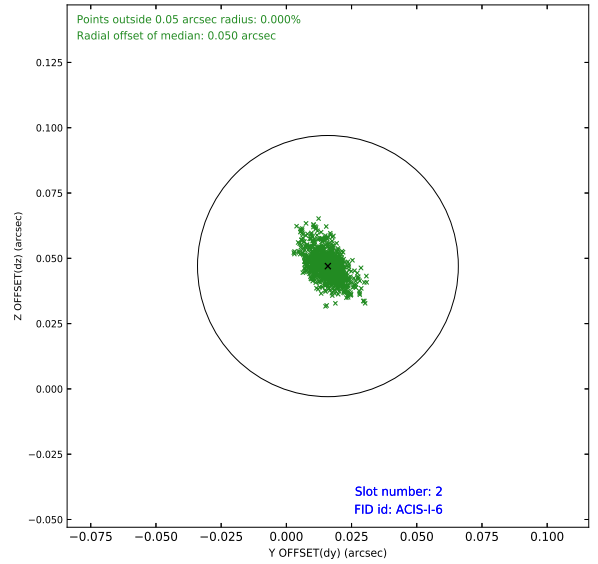
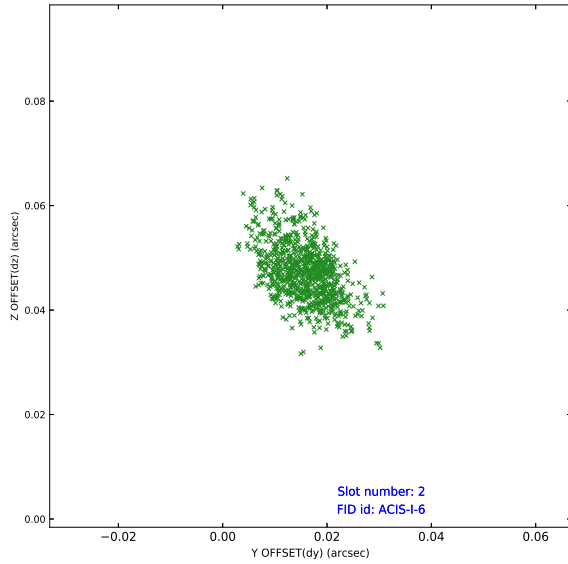
2.5.2 Slot 1



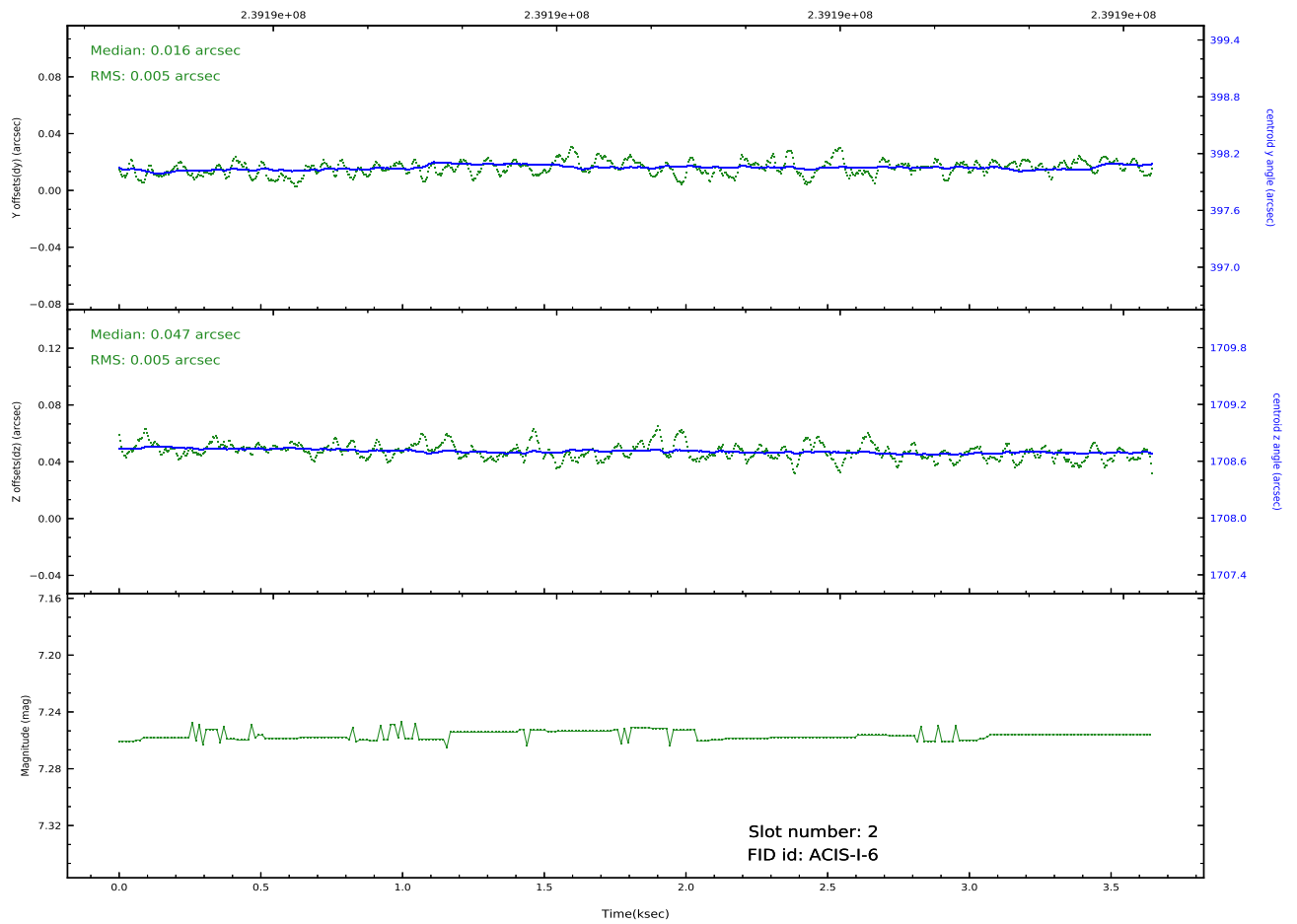
Time (s)



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Francesca Civano
V&V Date (YYYY-MM-DD)	2020.10.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.638

A.2 Comments