

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4983 - L2 Version 5
Chandra X-Ray Center

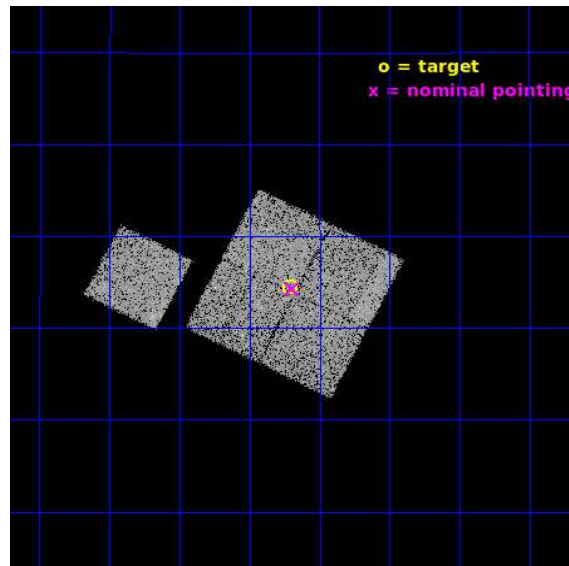
L2 Processing Date : Sep 23 2020

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1 Front

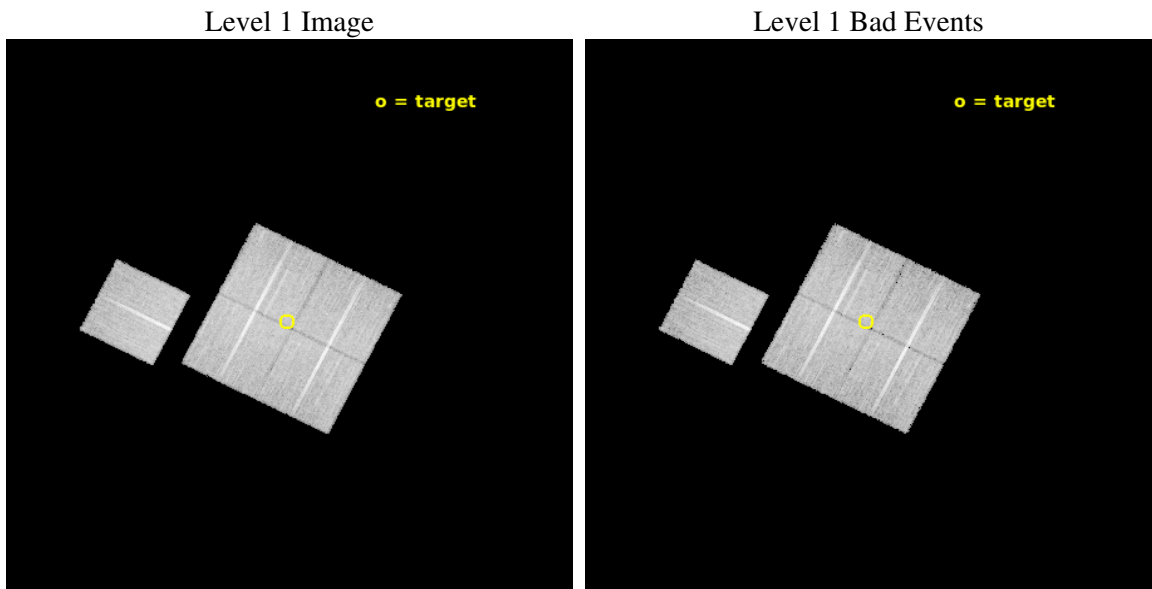
seq_num	800428	Sequence number
obs_id	4983	Observation id
title	Chandra Observations of DLS Shear-Selected Clusters	Proposal title
observer	John P. Hughes	Principal investigator
object	DLS J005415.22+124450.3	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	13.552917	Observer's specified target RA [deg]
dec_targ	12.742528	Observer's specified target Dec [deg]
ra_nom	13.549337235091	Nominal RA [deg]
dec_nom	12.738304468406	Nominal Dec [deg]
roll_nom	296.8898197131	Nominal Roll [deg]
revision	5	Processing version of data
ontime	19844.939729005	Sum of GTIs [s]
livetime	19585.650981814	Livetime [s]
ontime0	19854.23952961	Sum of GTIs [s]
ontime1	19847.998609215	Sum of GTIs [s]
ontime2	19851.180639386	Sum of GTIs [s]
ontime3	19844.939729005	Sum of GTIs [s]
ontime6	19854.198489606	Sum of GTIs [s]
l2events	43468	Number of level 2 events



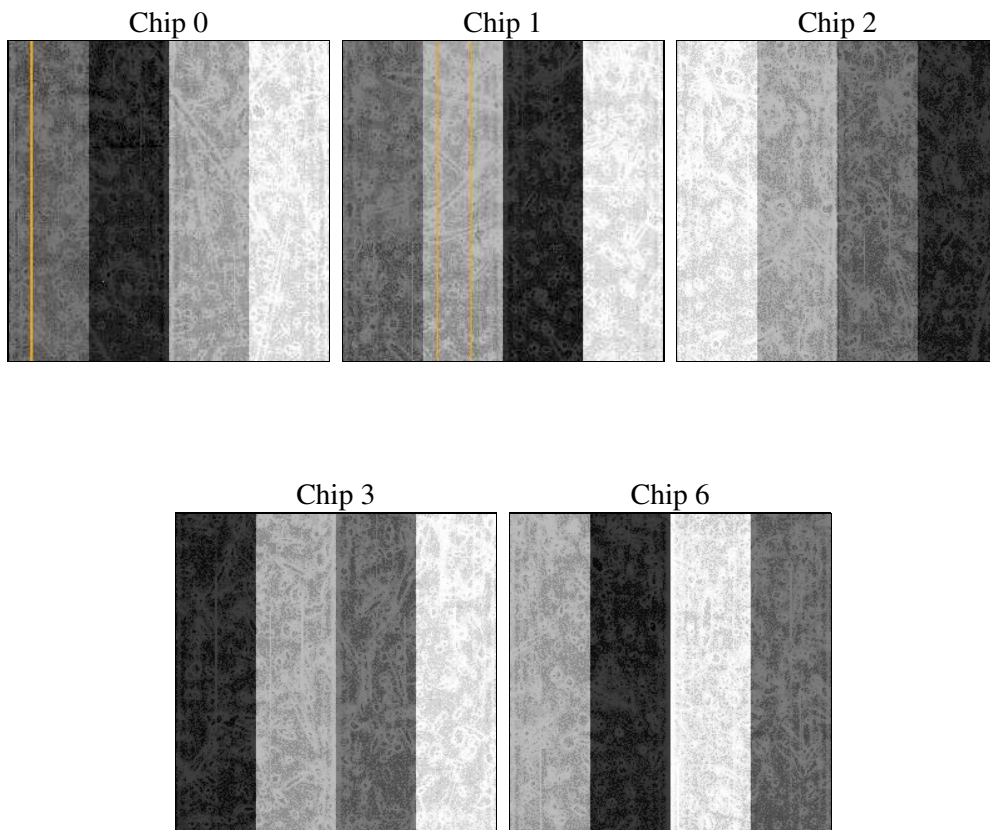
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	19738.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	19844.939729005	Sum of GTIs [s]
caldbver	4.9.2	 	ontime0	19854.23952961	Sum of GTIs [s]
date	2020-09-23T03:33:37	Date and time of file creation	ontime1	19847.998609215	Sum of GTIs [s]
revision	5	Processing version of data	ontime2	19851.180639386	Sum of GTIs [s]
			ontime3	19844.939729005	Sum of GTIs [s]
			ontime6	19854.198489606	Sum of GTIs [s]
			l1events	497136	Number of level 1 events

2.1.4 Events

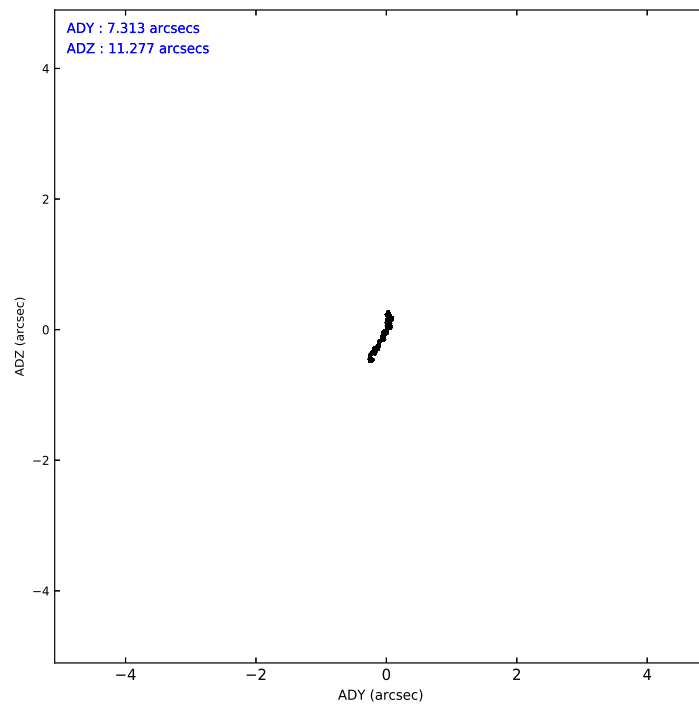
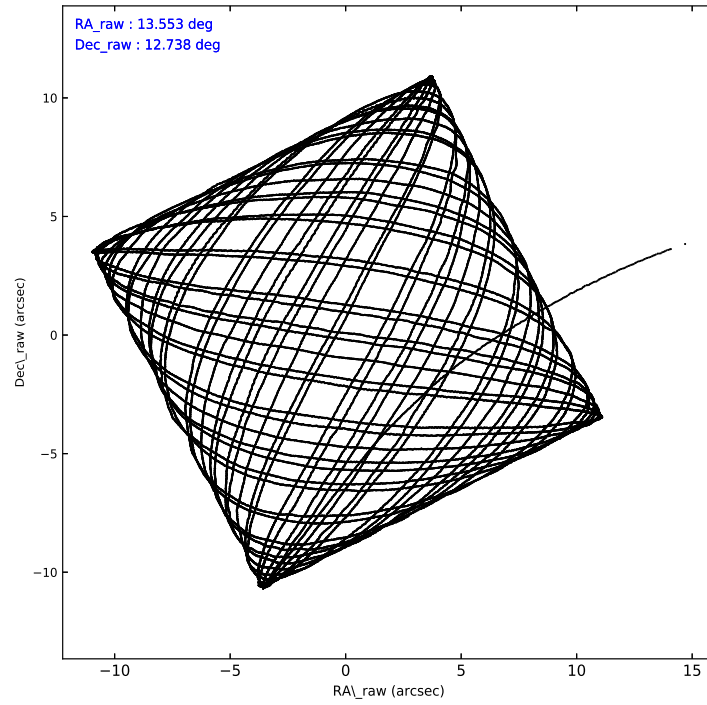
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	96130	94593	103696	100888	101829
rejected events	86093	83212	93382	91013	91152
rejected %	89%	87%	90%	90%	89%

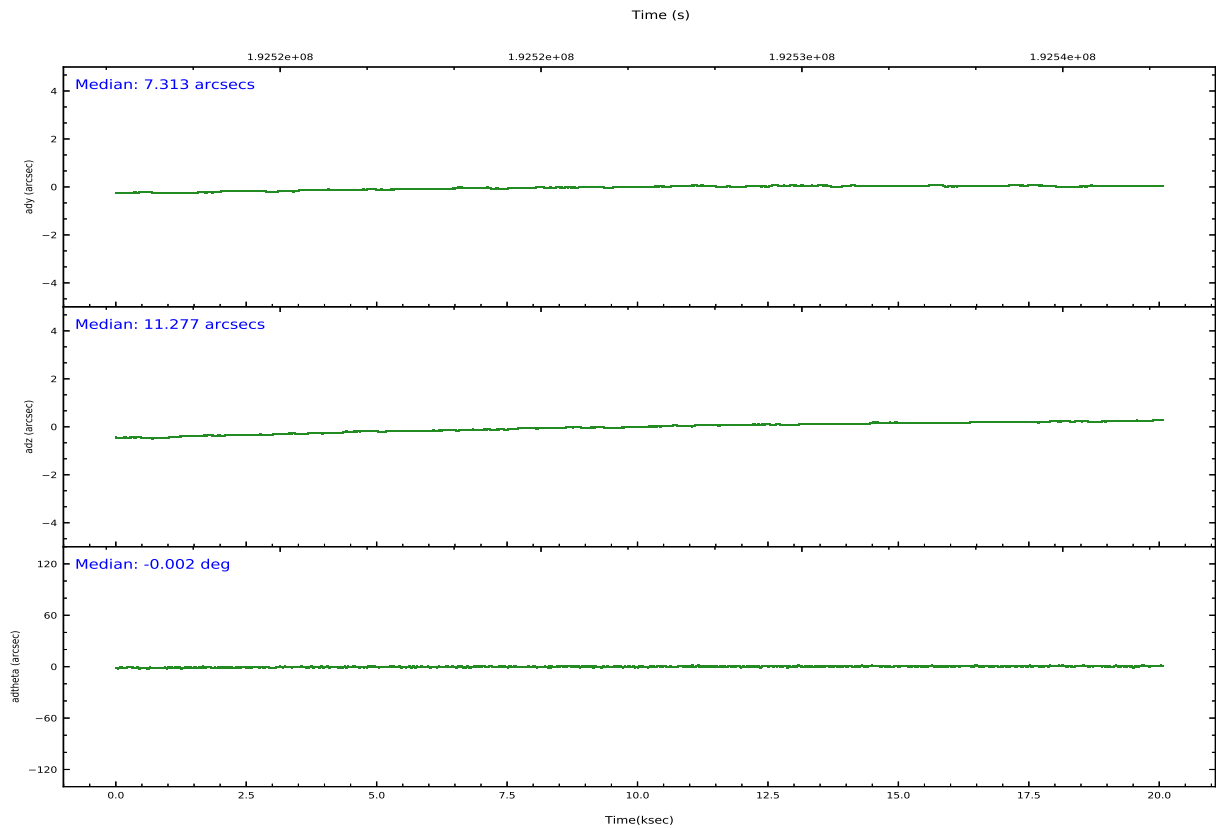
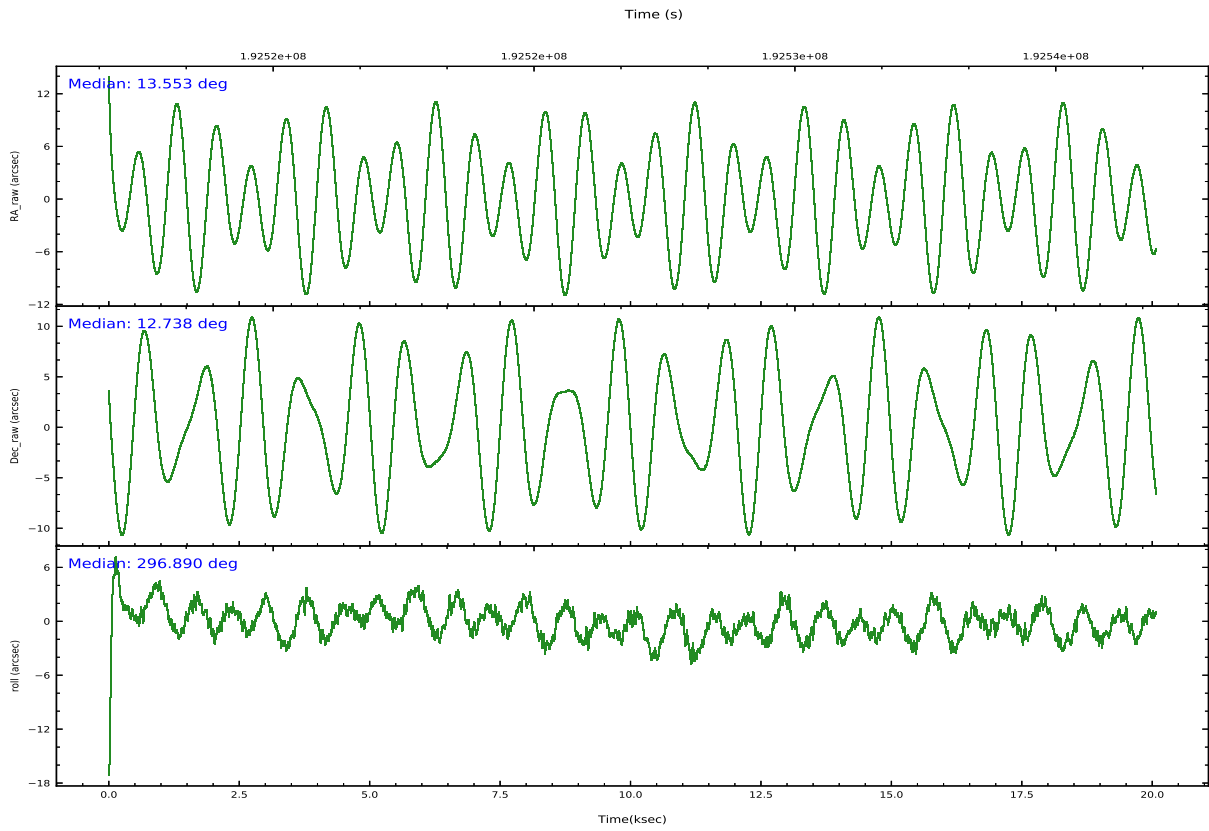
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	3435	4137	3819	3456	3861
	3%	4%	3%	3%	3%
grade 1 events	45	51	36	57	63
	0%	0%	0%	0%	0%
grade 2 events	2338	2332	2397	2085	2197
	2%	2%	2%	2%	2%
grade 3 events	1191	1295	1148	1155	1165
	1%	1%	1%	1%	1%
grade 4 events	1057	1269	1152	1211	1180
	1%	1%	1%	1%	1%
grade 5 events	3647	3829	3344	4184	4045
	3%	4%	3%	4%	3%
grade 6 events	2017	2350	1801	1969	2274
	2%	2%	1%	1%	2%
grade 7 events	82400	79330	89999	86771	87044
	85%	83%	86%	86%	85%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-01236	ACIS-01236	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	13.529664	13.549337235091	Subarray requested	NONE	NONE
[deg] Pointing Dec	12.752772	12.738304468406	Alternating exposures requested	N	N
[deg] Pointing Roll	296.687712	296.8898197131	[s] Primary exposure time	0.000000	3.1
[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)	192517186.184000	192516134.58811			
Observation start date	2004-02-07T04:58:42	2004-02-07T04:42:14			
[s] Observation end time (MET)	192536924.184000	192538508.80159			
Observation end date	2004-02-07T10:27:40	2004-02-07T10:55:08			
Read mode	TIMED	TIMED			

2.3 Aspect





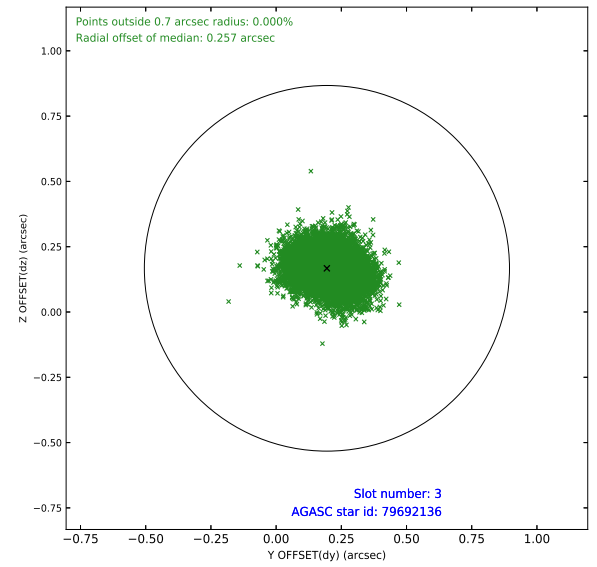
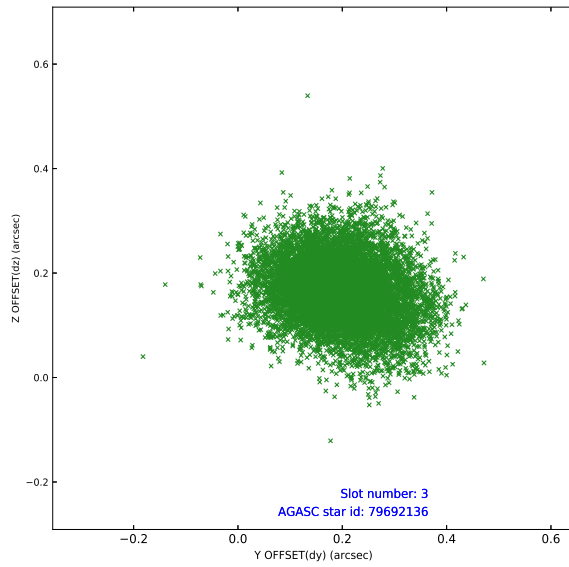
Slot Statistics

pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.23	4897	1.000	0.066	-0.041	0.007	0.015	0.000000	0.000000	932.47	-834
1	FID		ACIS-I-5	7.23	4896	1.000	-0.126	0.091	0.007	0.015	0.000000	0.000000	-1815.74	1062
2	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0
3	GUIDE	used	79692136	9.52	9788	1.000	0.195	0.167	0.103	0.170	14.271473	12.477371	2053.82	1886
4	GUIDE	used	79696792	7.93	9792	1.000	0.123	0.154	0.045	0.075	14.340252	12.429848	2315.06	2026
5	GUIDE	used	80086608	8.72	9792	1.000	-0.039	-0.041	0.071	0.114	14.121497	12.713247	1058.72	1794
6	GUIDE	used	80087120	6.97	9794	1.000	-0.045	-0.489	0.045	0.073	12.895367	12.784771	-1105.02	-1936
7	GUIDE	used	80089088	9.27	9788	1.000	-0.235	0.208	0.088	0.141	13.088191	13.121971	-1883.85	-785

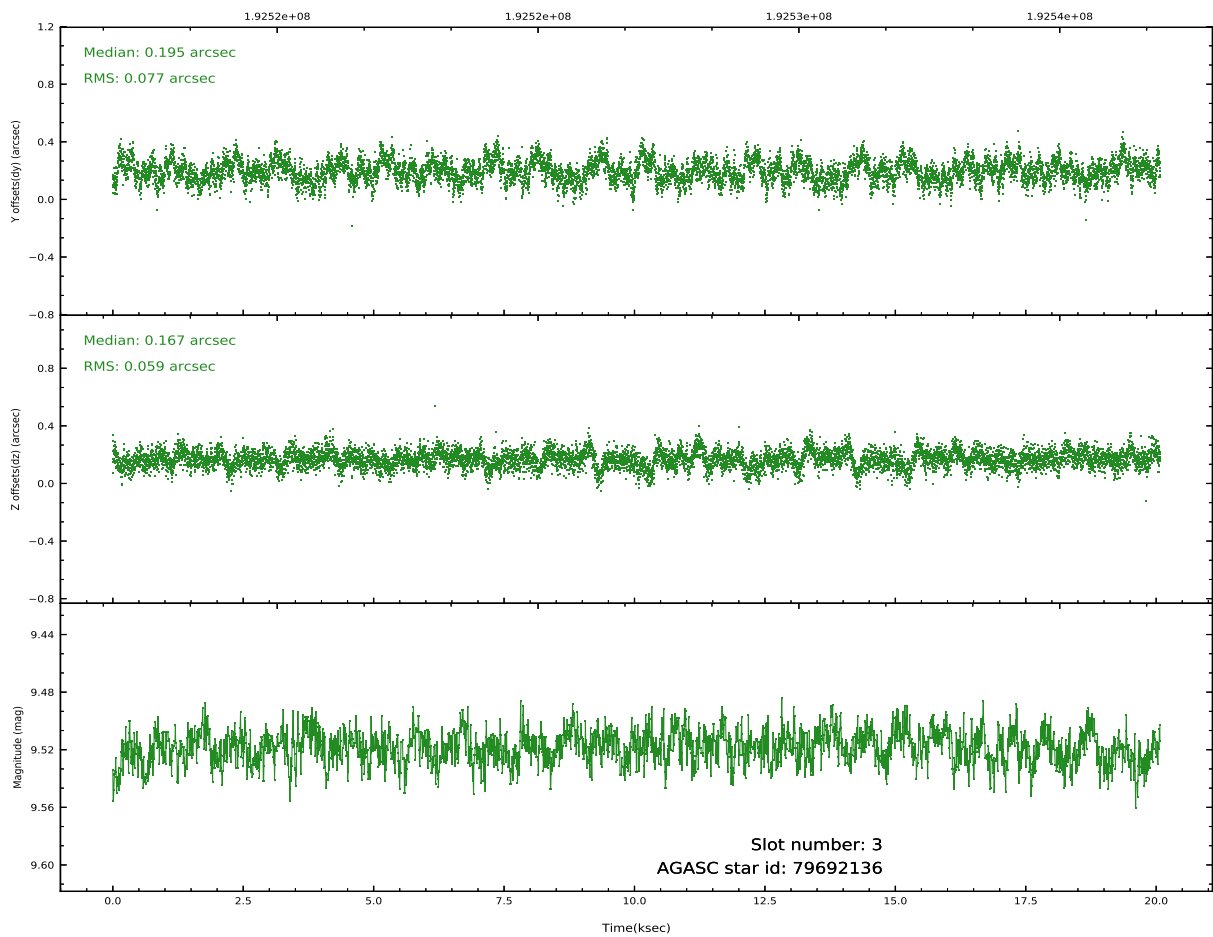
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2.4 Star Slots

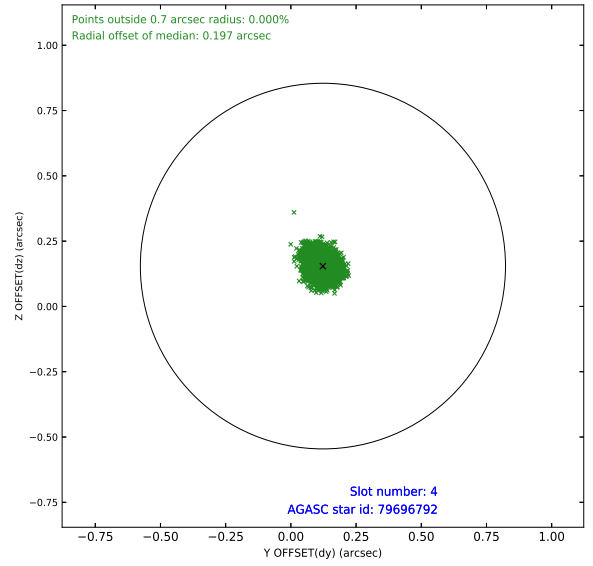
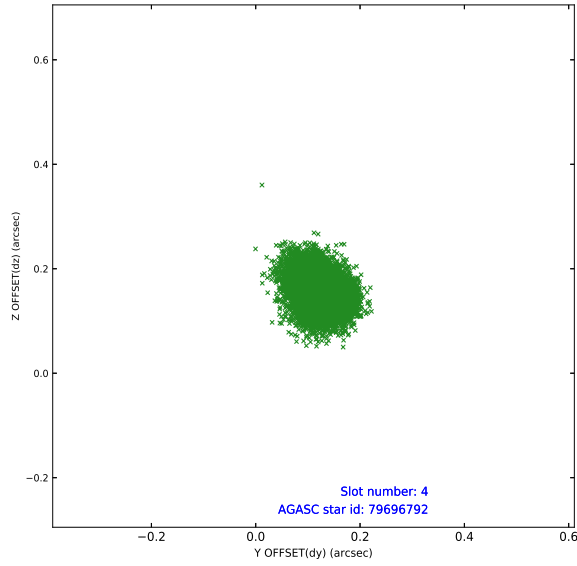
2.4.1 Slot 3



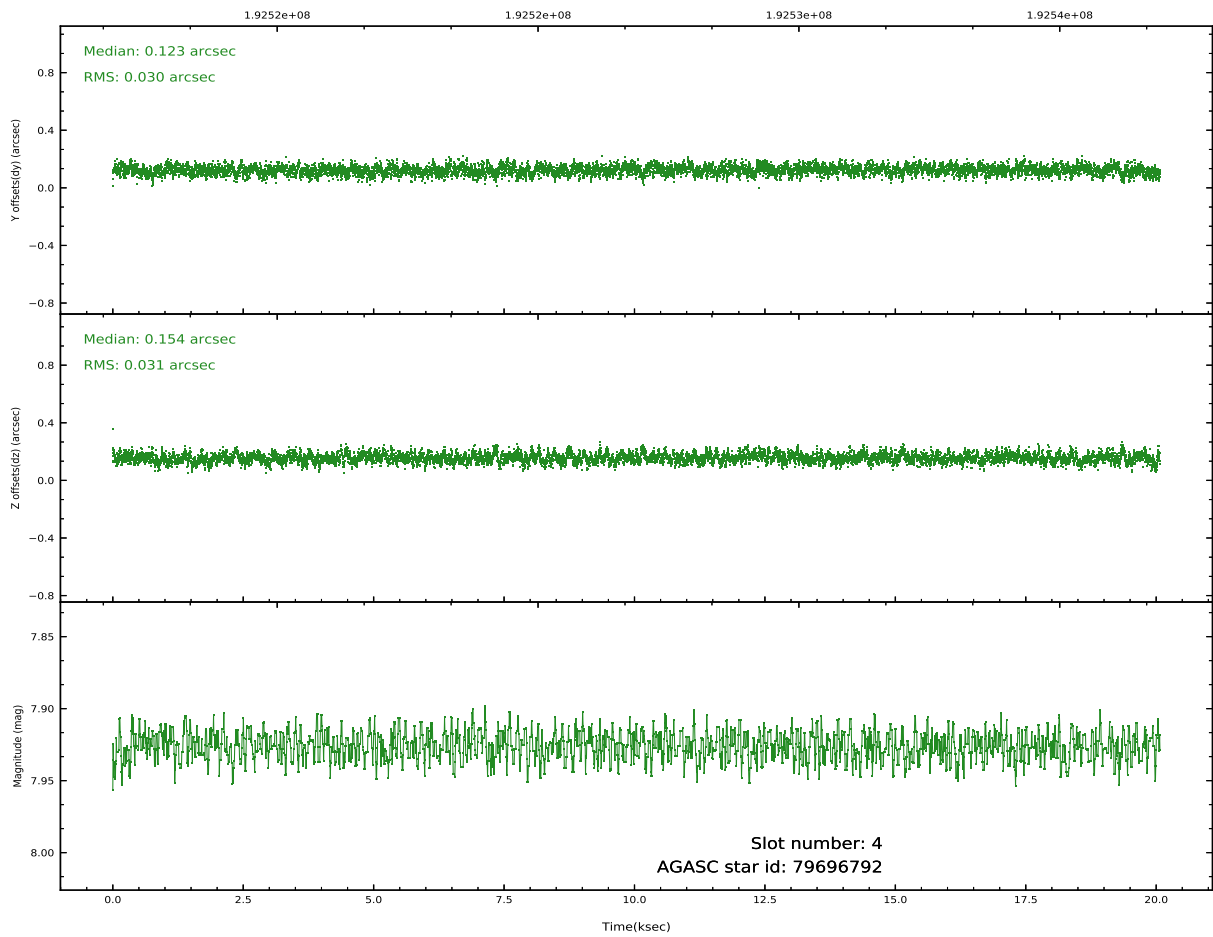
Time (s)



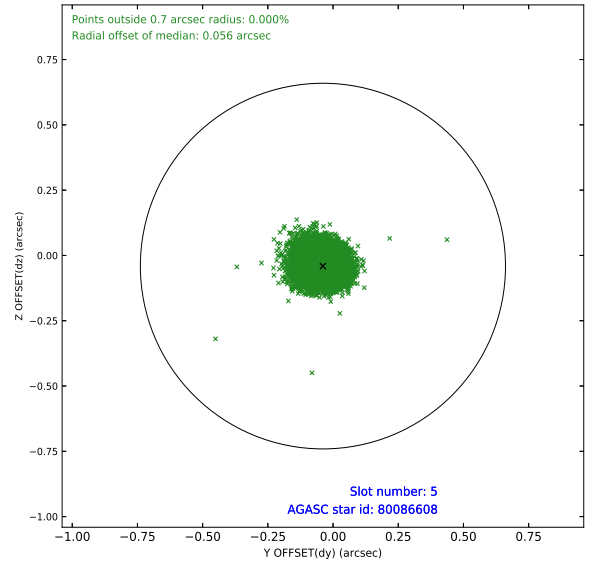
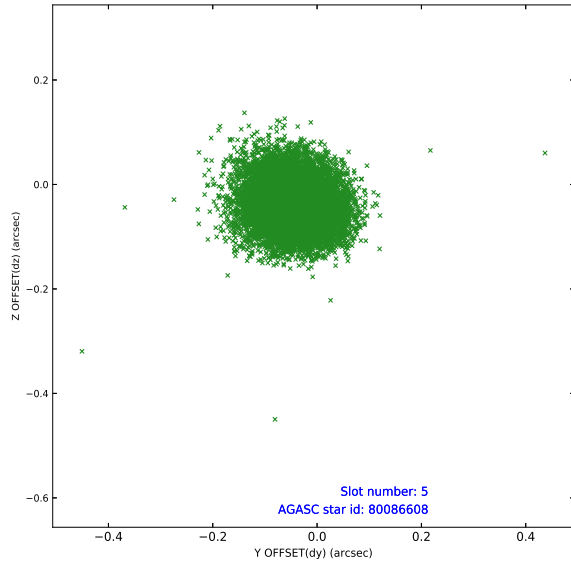
2.4.2 Slot 4



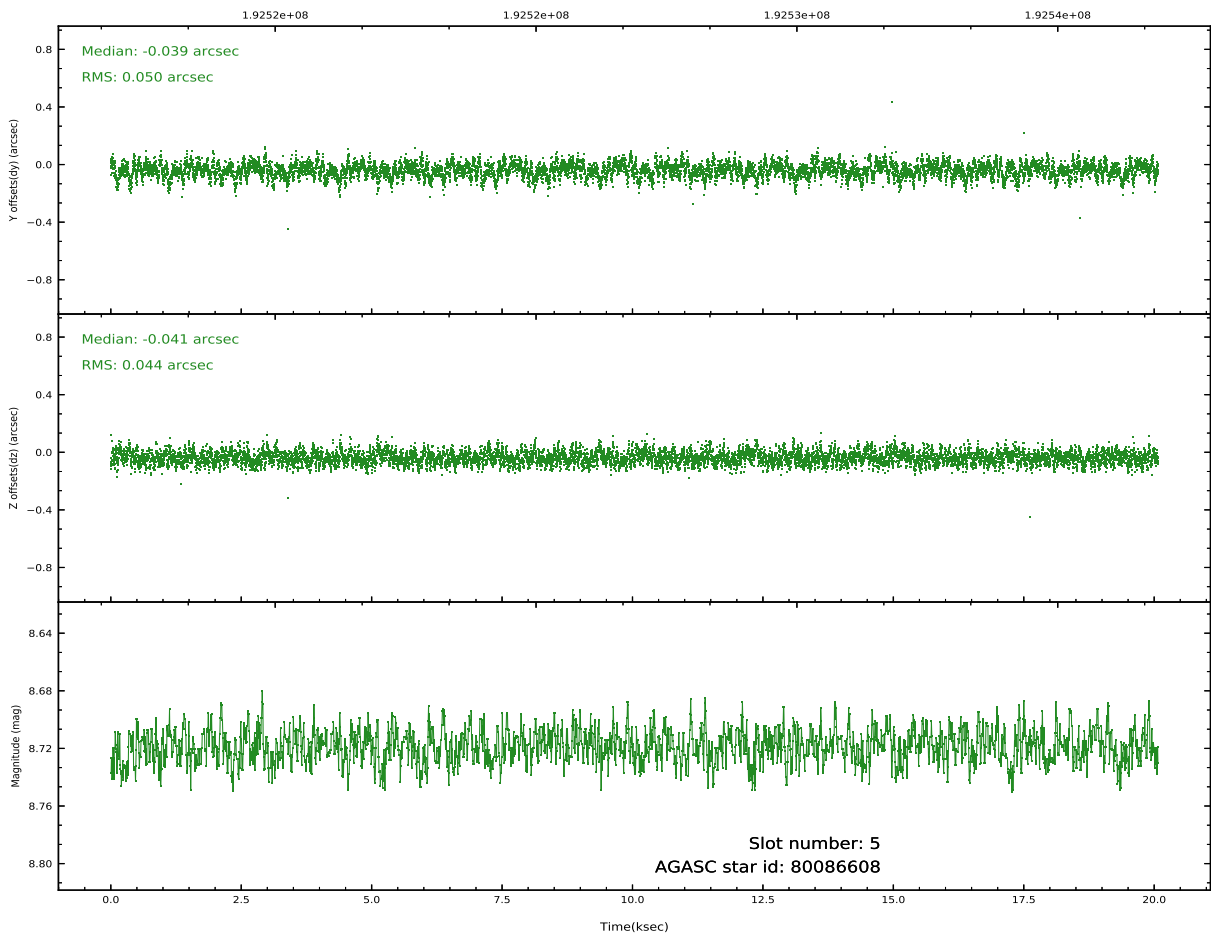
Time (s)



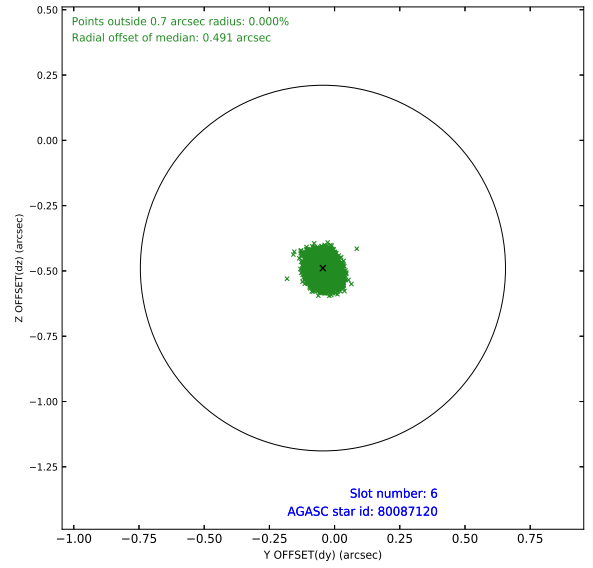
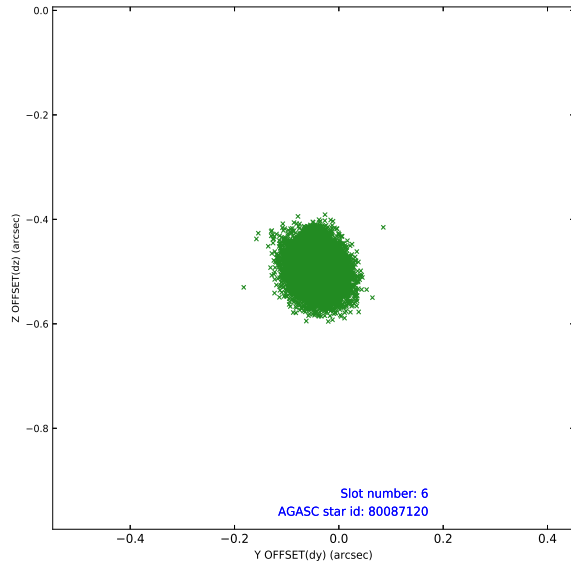
2.4.3 Slot 5



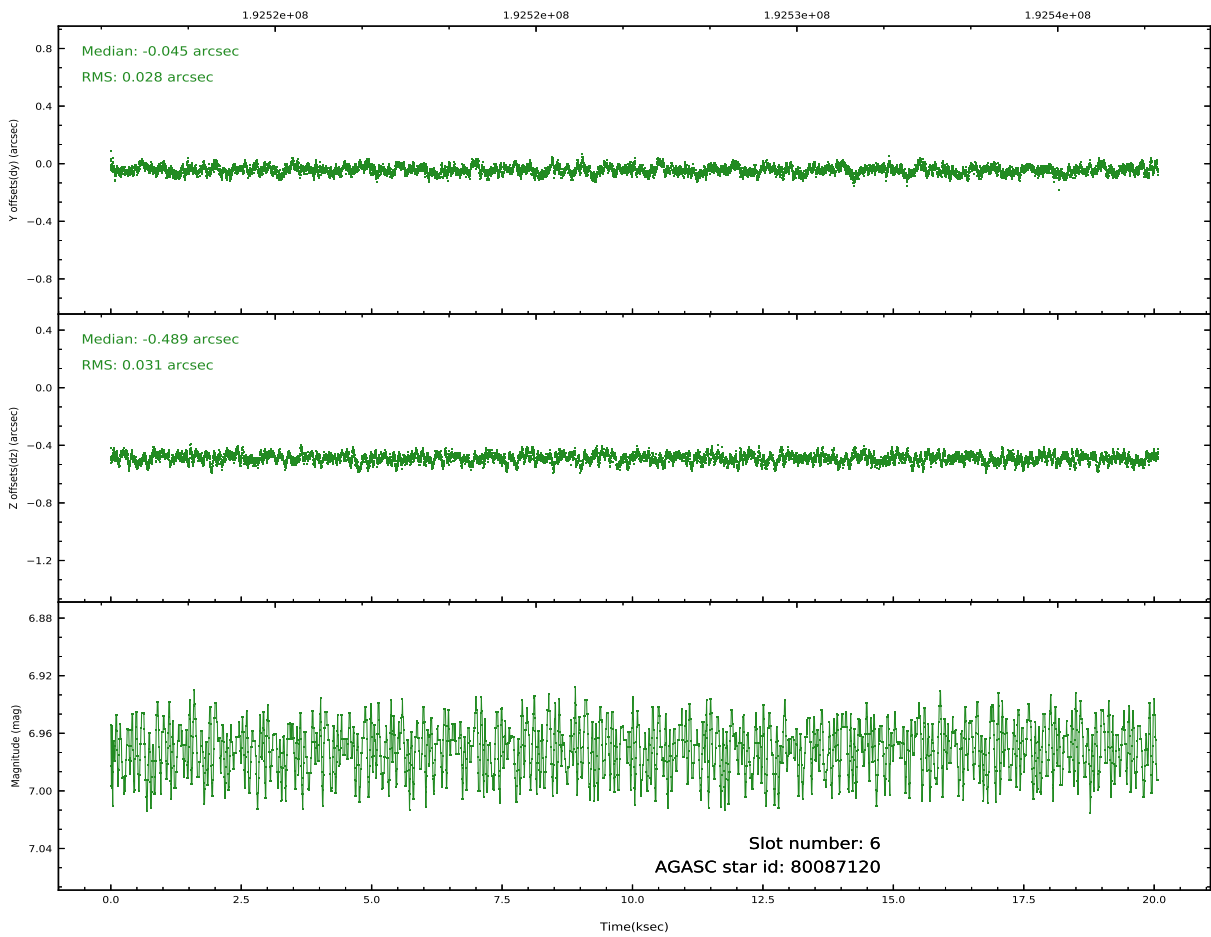
Time (s)



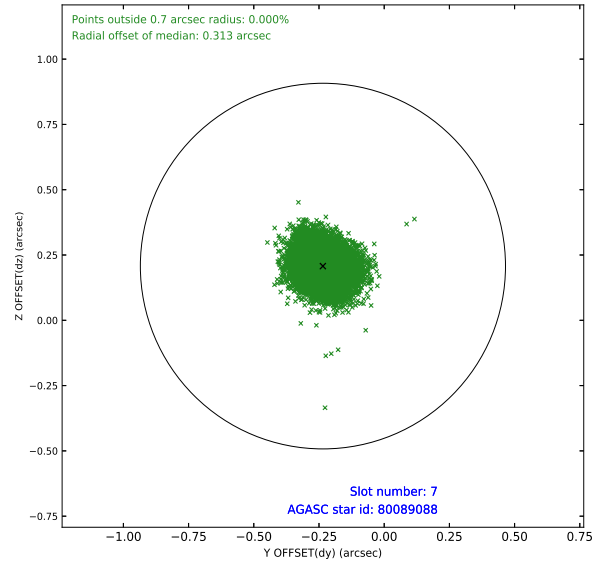
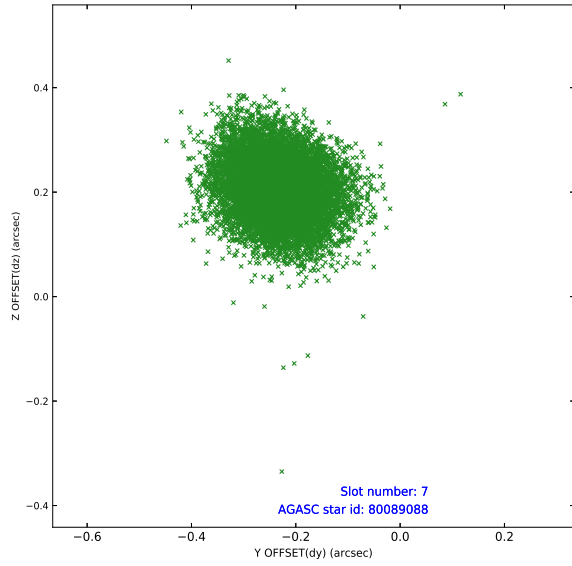
2.4.4 Slot 6



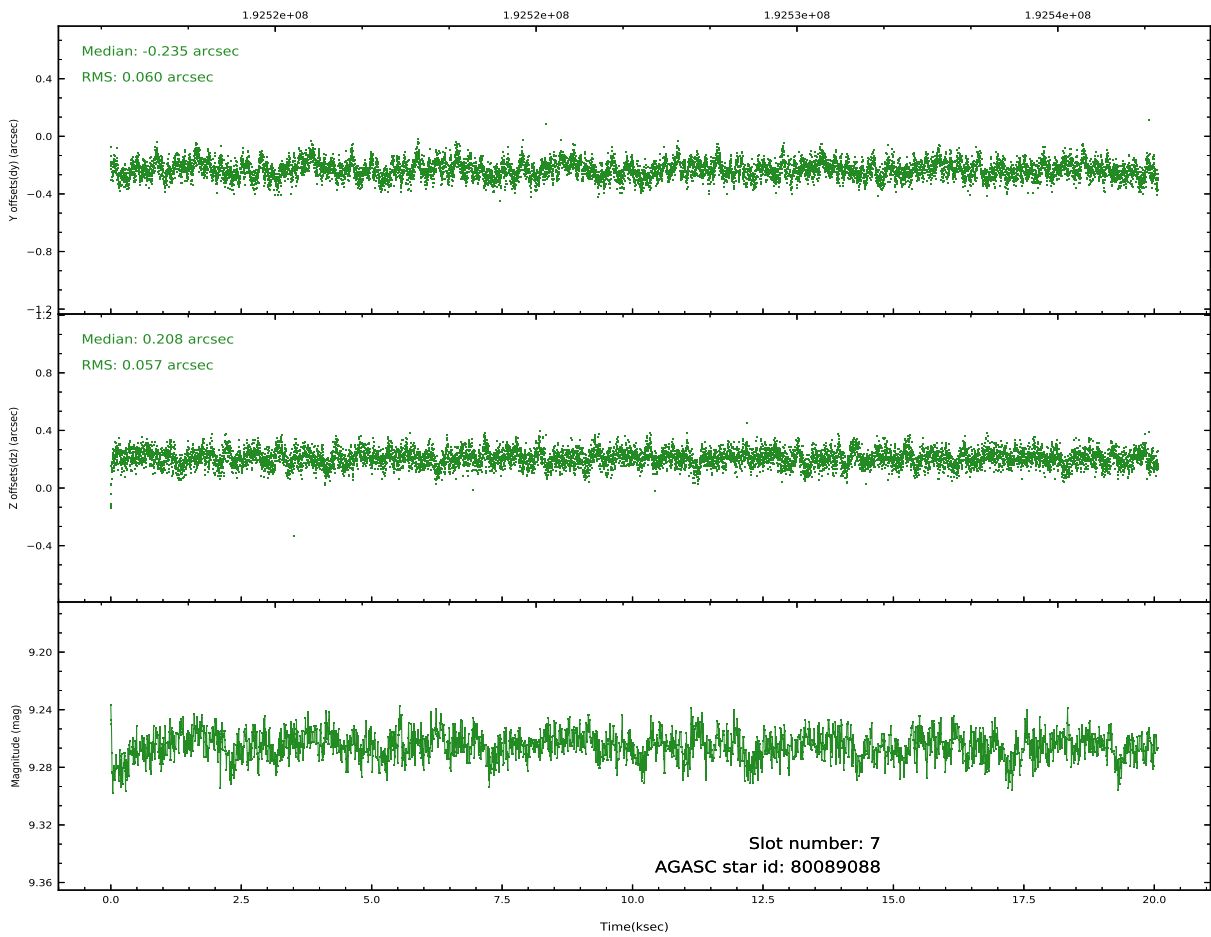
Time (s)



2.4.5 Slot 7

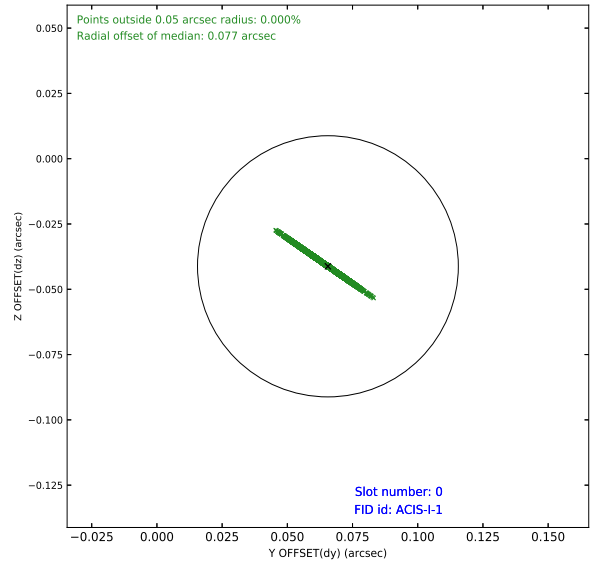
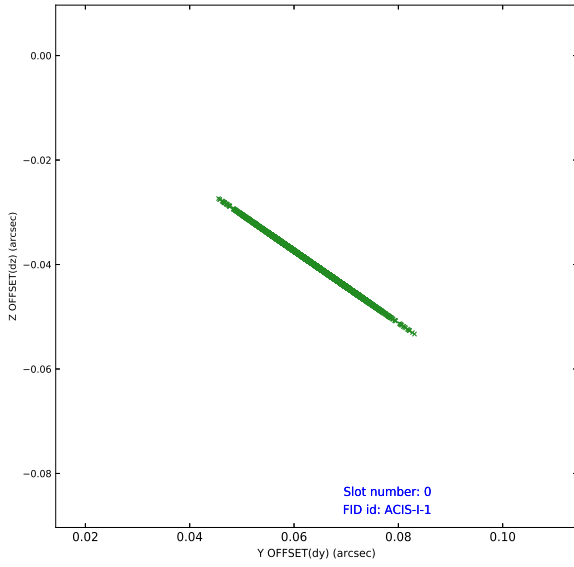


Time (s)

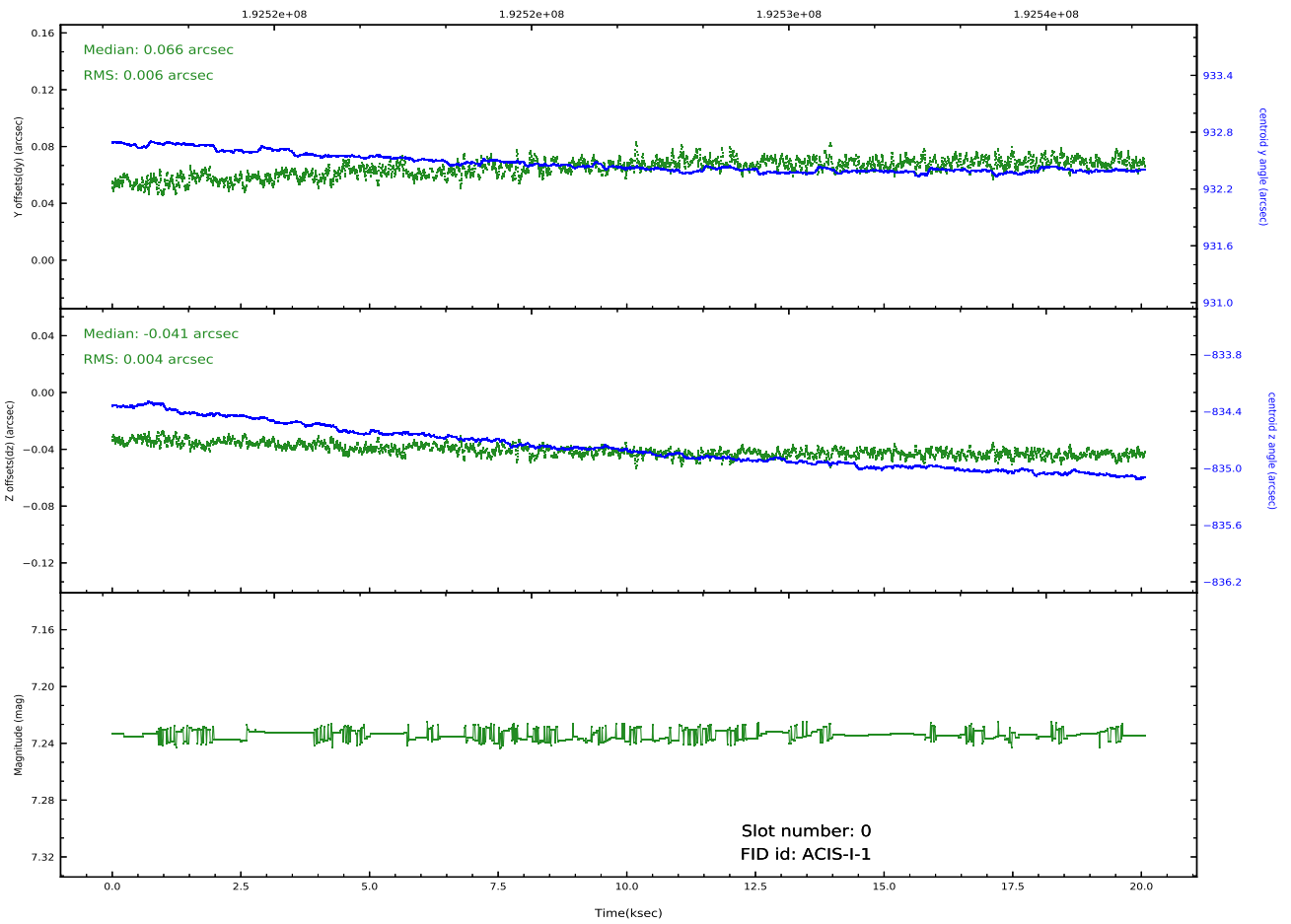


2.5 FID Slots

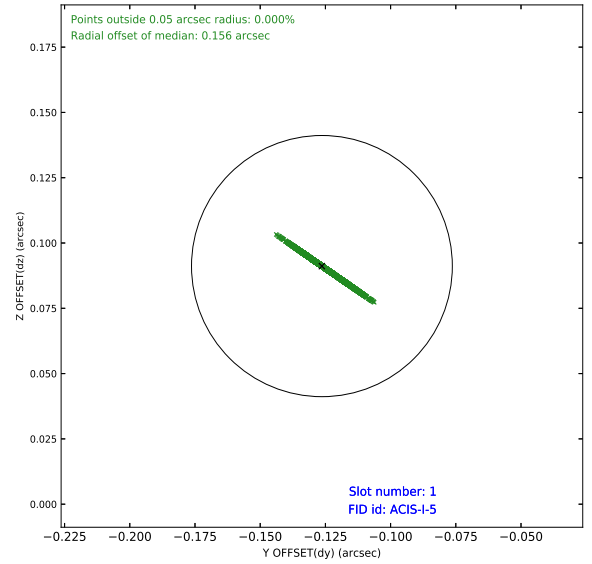
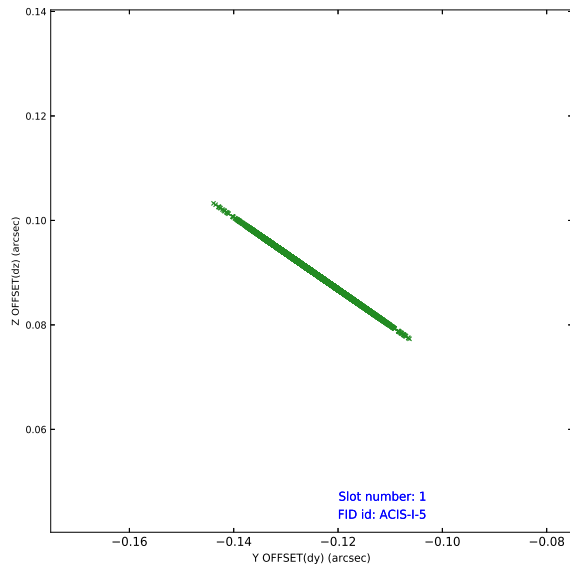
2.5.1 Slot 0



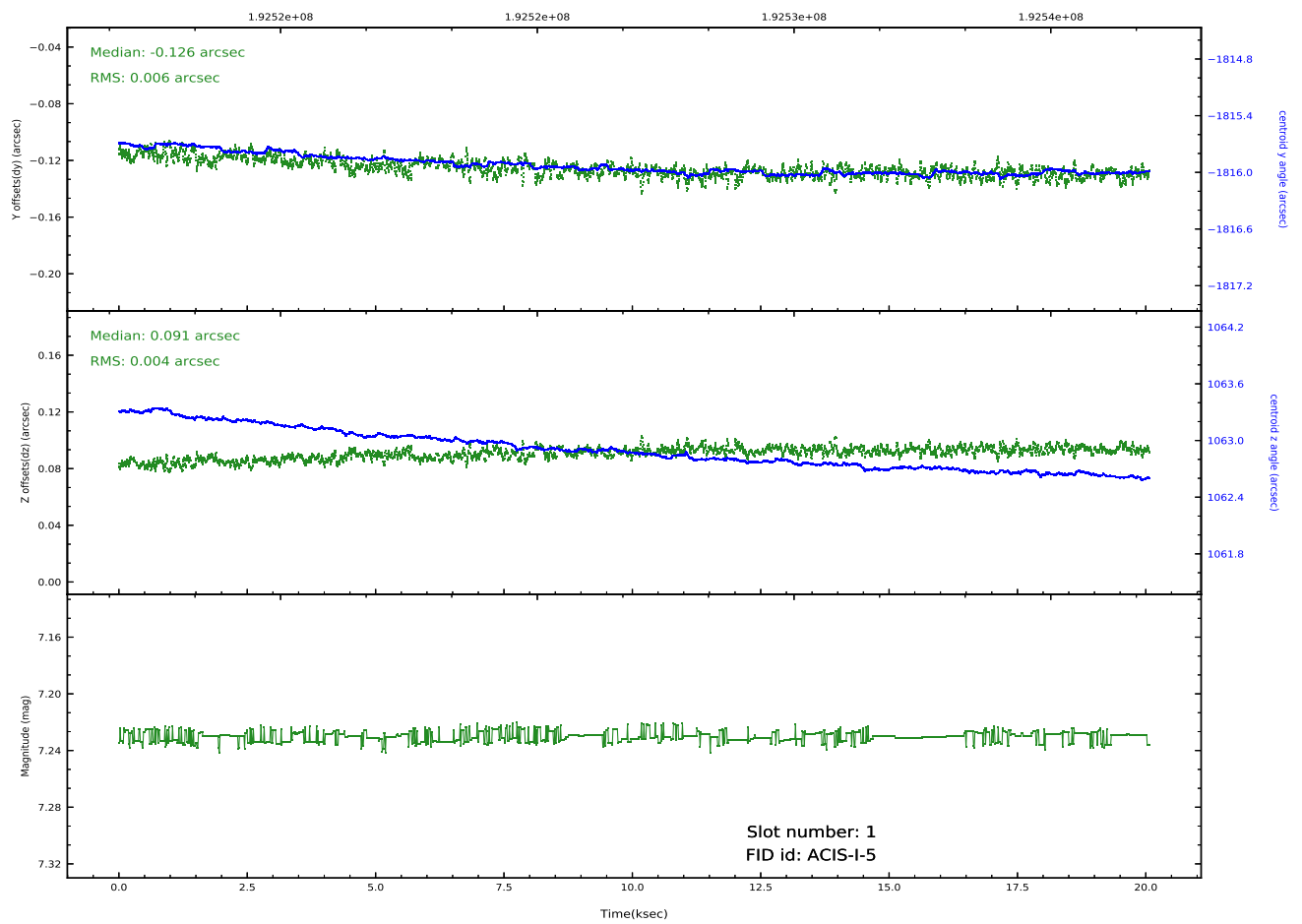
Time (s)



2.5.2 Slot 1



Time (s)



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.09.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.846

A.2 Comments

The fid light in slot 2 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this slot from the solution.