

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 19755 - L2 Version 2
Chandra X-Ray Center

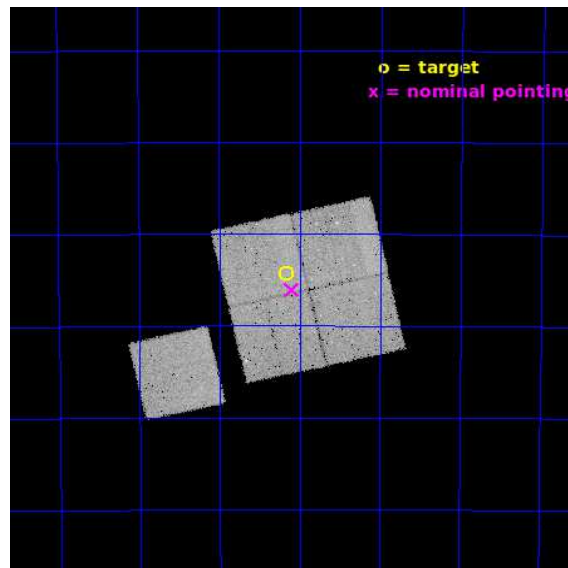
L2 Processing Date : Oct 24 2020

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1 Front

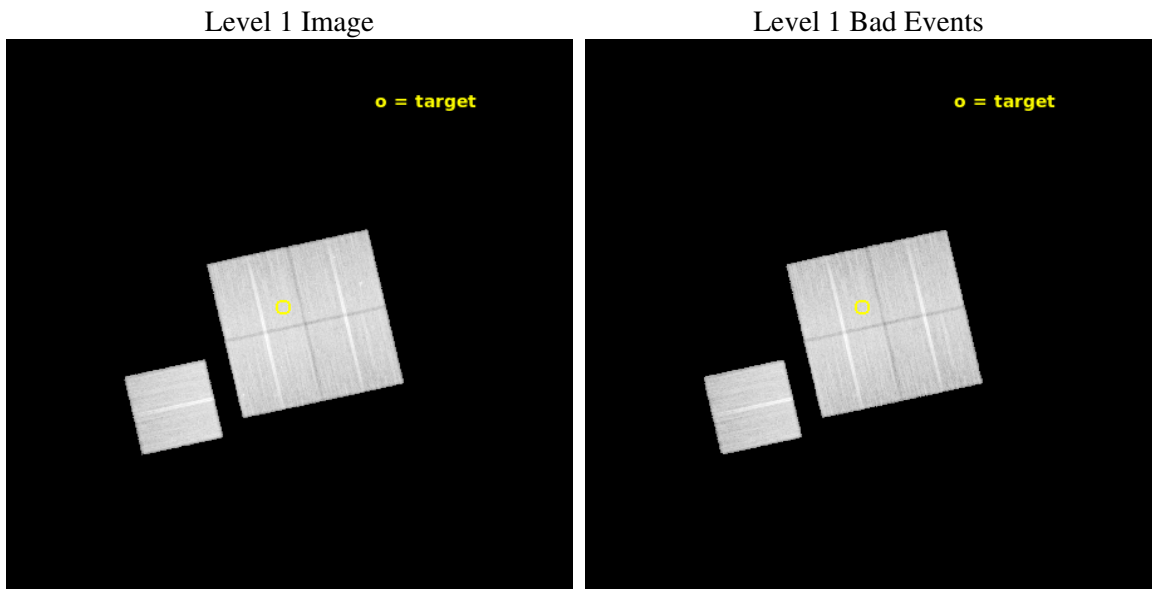
seq_num	801692	Sequence number
obs_id	19755	Observation id
title	A Chandra Survey of low-mass clusters at $0.7 < z < 0.8$ selected in the 100 deg ² SPT-Pol Deep Field	Proposal title
observer	Ralph Kraft	Principal investigator
object	SPT-CLJ2314-5554	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	348.540833	Observer's specified target RA [deg]
dec_targ	-55.904	Observer's specified target Dec [deg]
ra_nom	348.52453432654	Nominal RA [deg]
dec_nom	-55.934597340455	Nominal Dec [deg]
roll_nom	257.27858581428	Nominal Roll [deg]
revision	2	Processing version of data
ontime	34062.642201185	Sum of GTIs [s]
livetime	33617.588704274	Livetime [s]
ontime0	34062.519061327	Sum of GTIs [s]
ontime1	34065.701091409	Sum of GTIs [s]
ontime2	34062.601161122	Sum of GTIs [s]
ontime3	34062.642201185	Sum of GTIs [s]
ontime6	34065.619011402	Sum of GTIs [s]
l2events	118896	Number of level 2 events



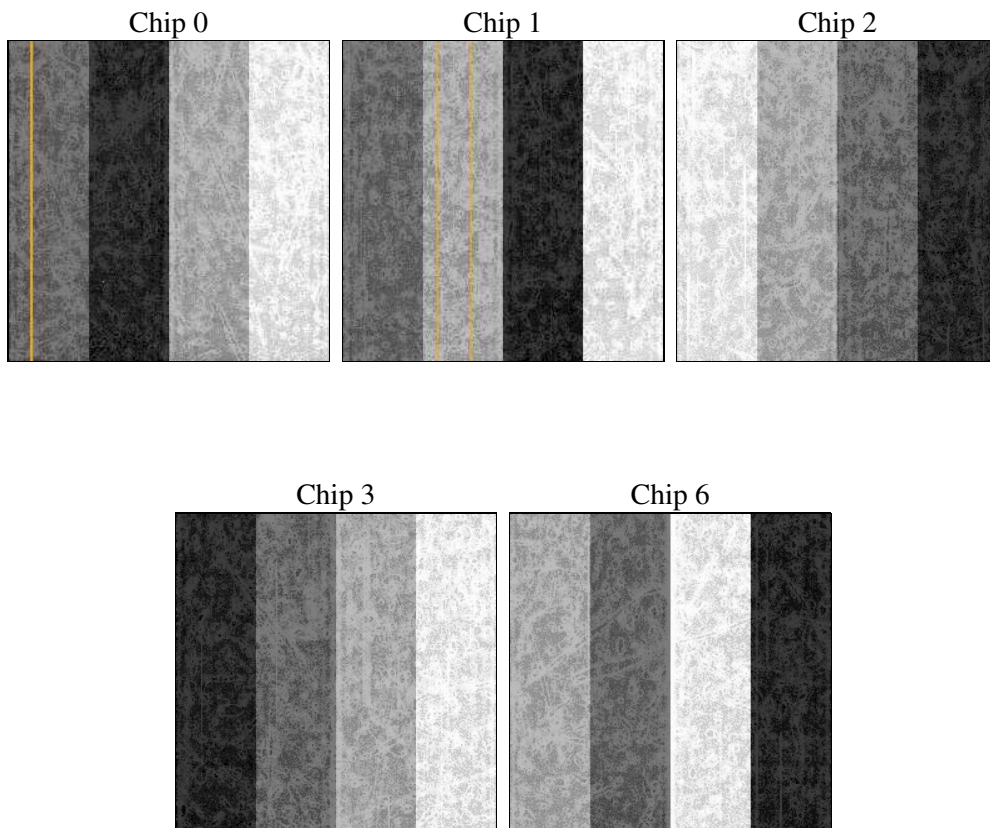
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	34000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	34062.642201185	Sum of GTIs [s]
caldsver	4.9.3	 	ontime0	34062.519061327	Sum of GTIs [s]
date	2020-10-24T06:27:06	Date and time of file creation	ontime1	34065.701091409	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	34062.601161122	Sum of GTIs [s]
			ontime3	34062.642201185	Sum of GTIs [s]
			ontime6	34065.619011402	Sum of GTIs [s]
			l1events	1200113	Number of level 1 events

2.1.4 Events

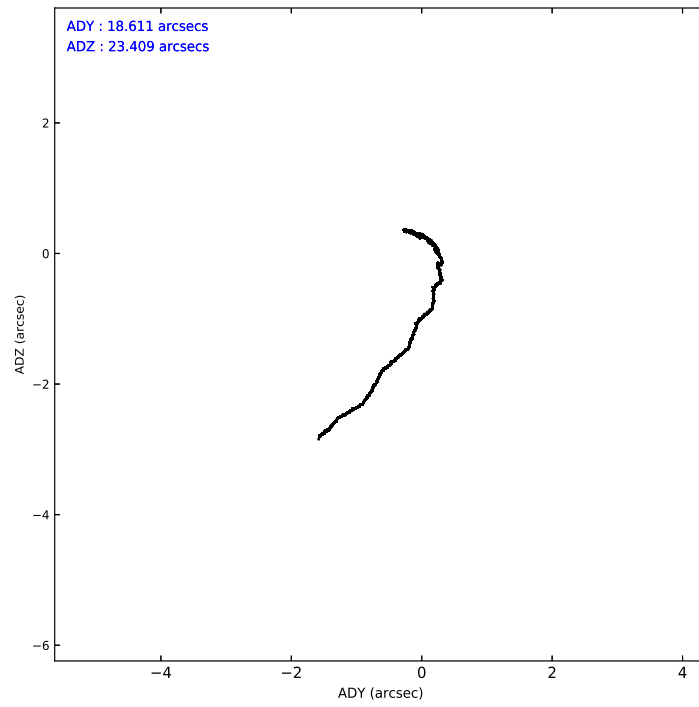
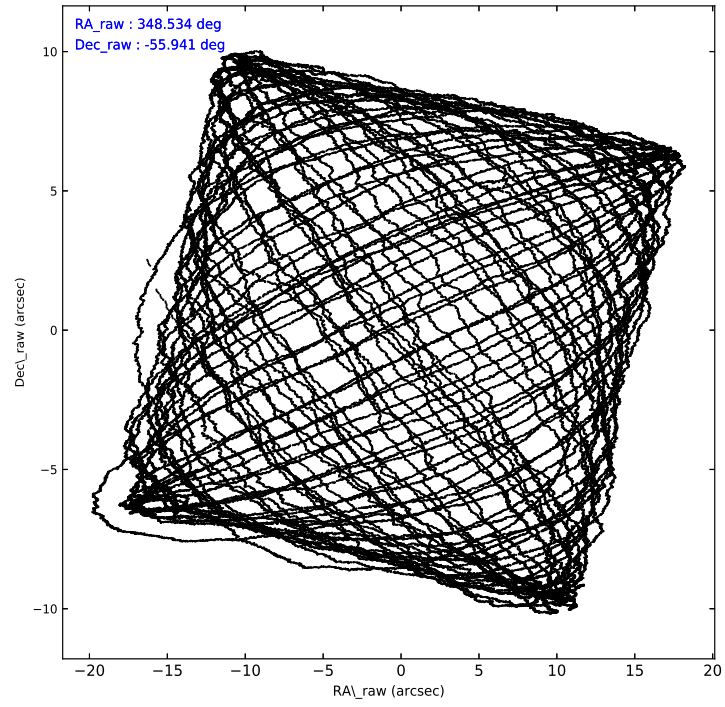
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	227793	229764	253412	241792	247352
rejected events	199747	198498	225741	214167	219787
rejected %	87%	86%	89%	88%	88%

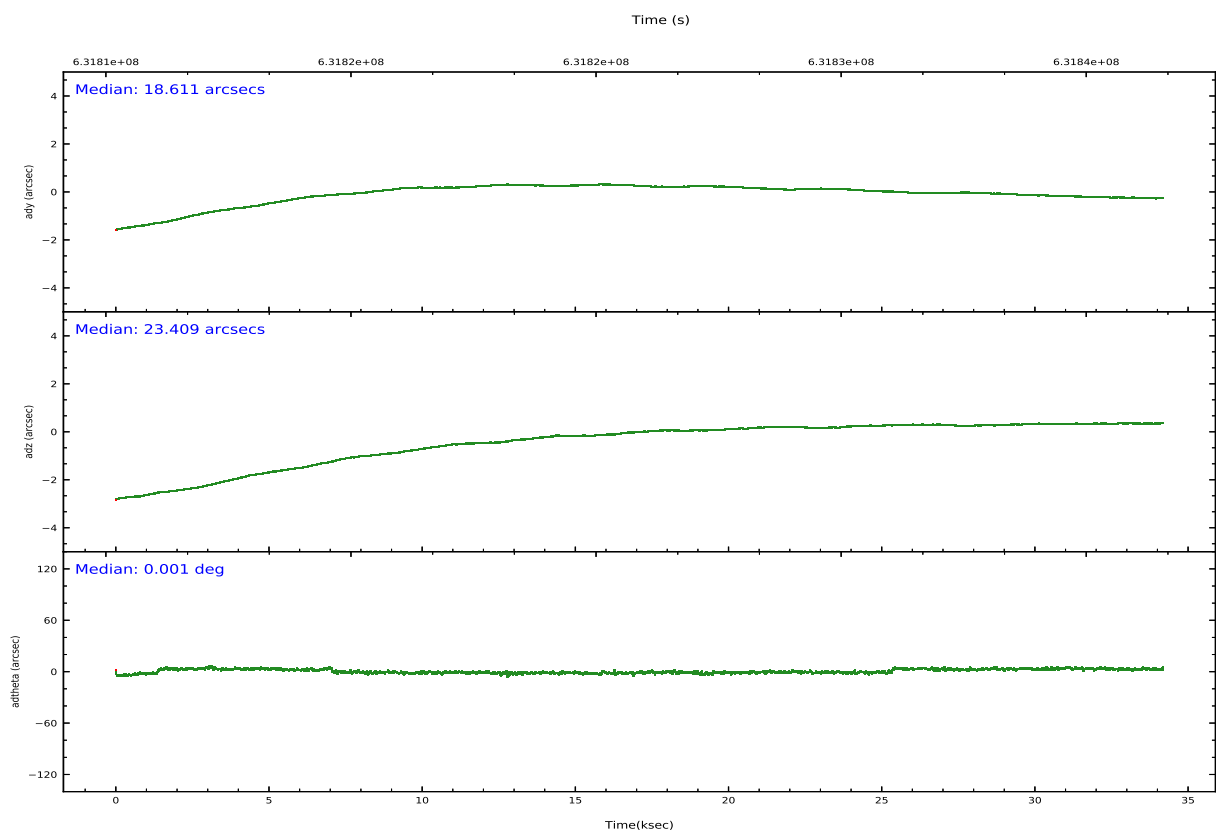
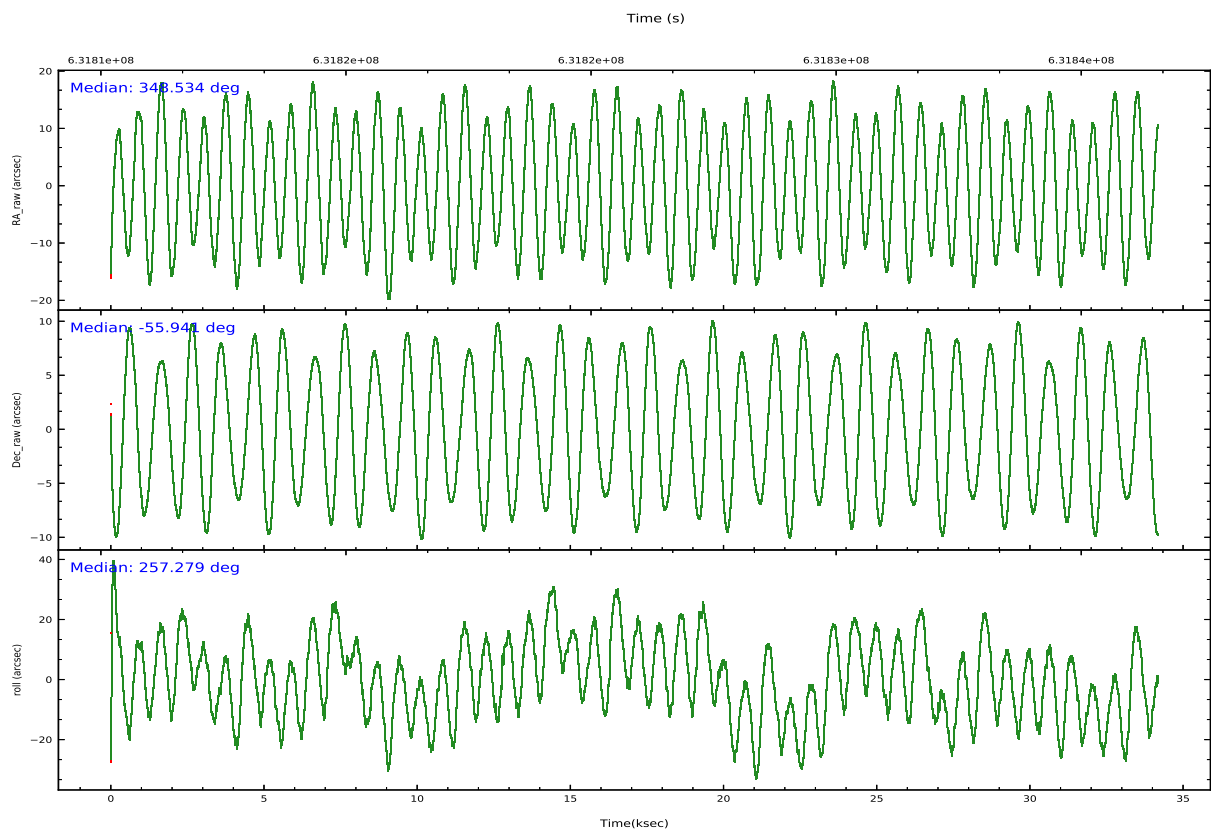
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	9544	10953	9746	10602	9184
	4%	4%	3%	4%	3%
grade 1 events	149	124	113	174	115
	0%	0%	0%	0%	0%
grade 2 events	7143	7938	7014	5905	6418
	3%	3%	2%	2%	2%
grade 3 events	2915	2900	2688	2789	2793
	1%	1%	1%	1%	1%
grade 4 events	2594	2729	2780	2722	2709
	1%	1%	1%	1%	1%
grade 5 events	10601	11394	10235	11924	11426
	4%	4%	4%	4%	4%
grade 6 events	5852	6753	5449	5608	6465
	2%	2%	2%	2%	2%
grade 7 events	188995	186973	215387	202068	208242
	82%	81%	84%	83%	84%

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	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	348.519080	348.52453432654	CCD I2 on	Y	Y
[deg] Pointing Dec	-55.914945	-55.934597340455	CCD I3 on	Y	Y
[deg] Pointing Roll	257.068015	257.27858581428	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-230.082463	-230.0875075610572	CCD S3 on	N	N
[mm] SIM translation stage offset	-3.51	-3.504945441872508	CCD S4 on	N	N
[s] Observation start time (MET)	631808511.184000	631807481.72809	CCD S5 on	N	N
Observation start date	2018-01-08T14:20:42	2018-01-08T14:04:41	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	631842511.184000	631843621.18022	On-chip summing requested	N	N
Observation end date	2018-01-08T23:47:22	2018-01-09T00:07:01	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



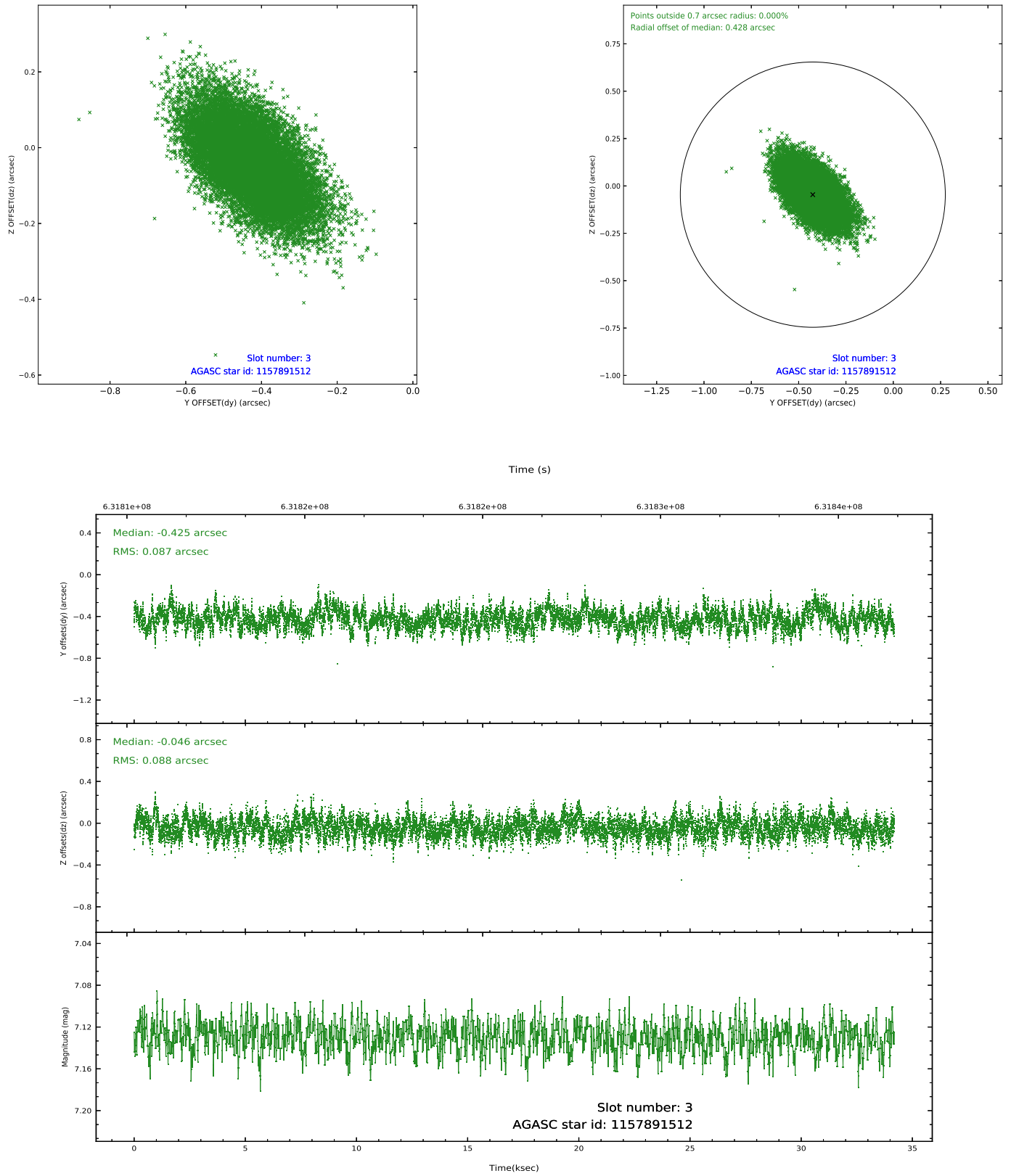


Slot Statistics

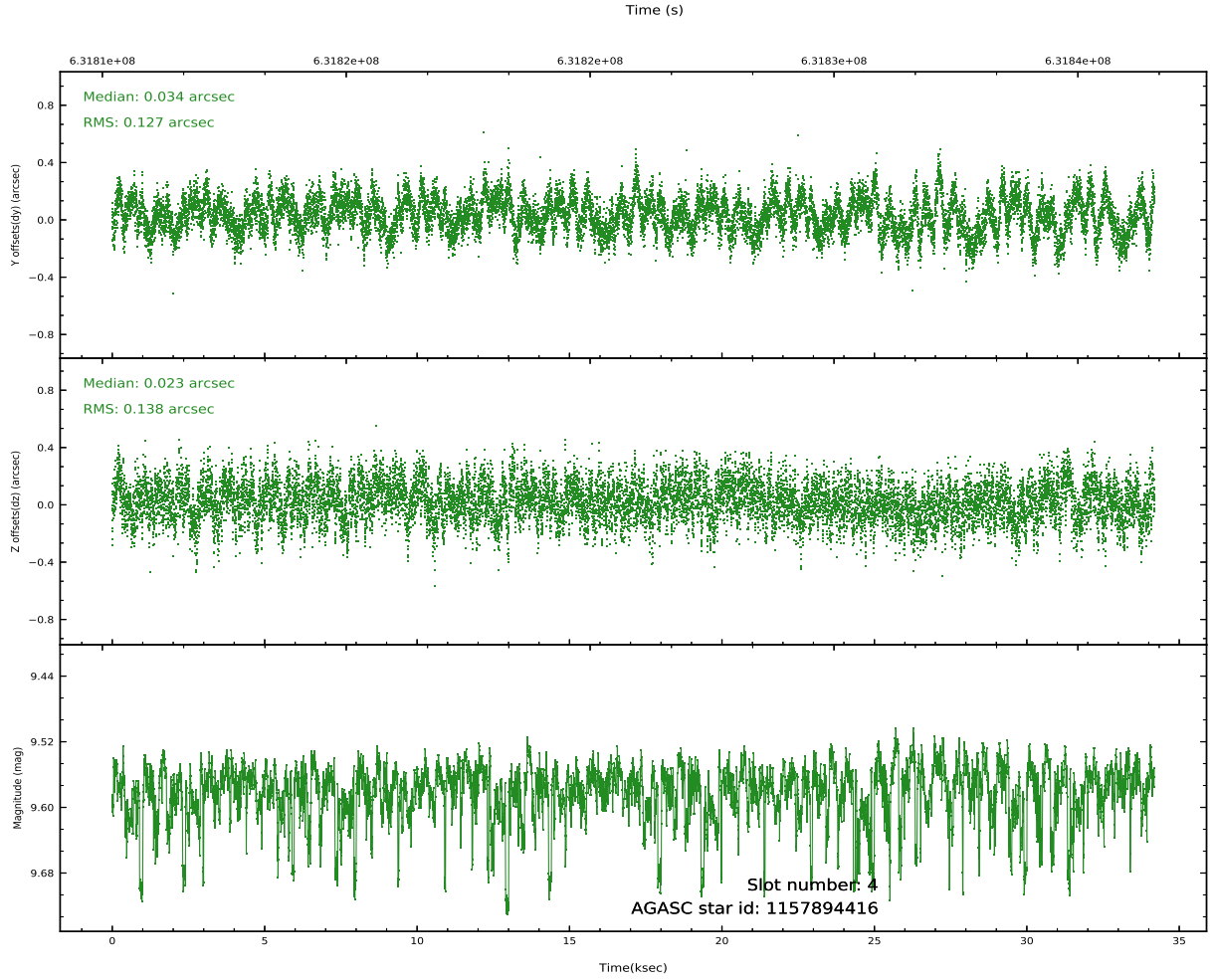
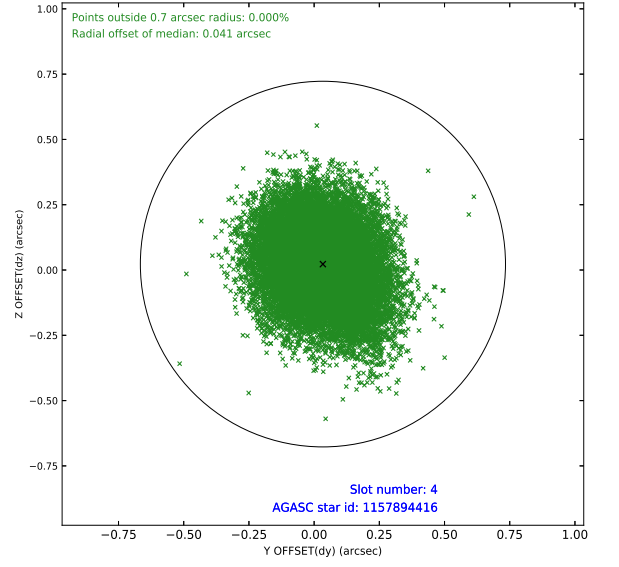
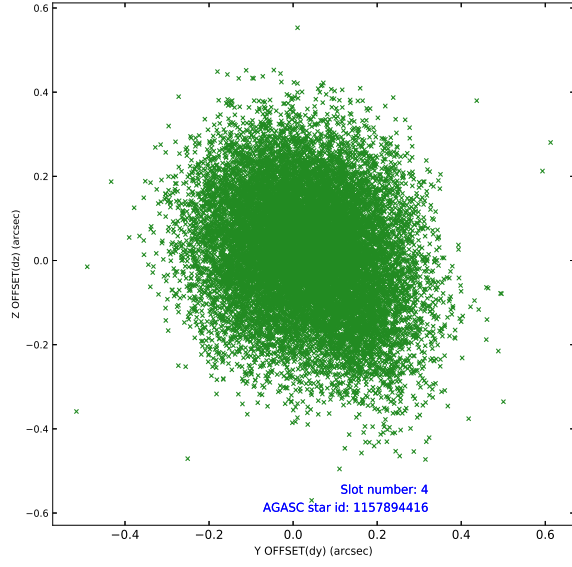
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.12	8338	1.000	0.084	-0.087	0.031	0.088	0.000000	0.000000	920.81	-918
1	FID		ACIS-I-2	7.07	8338	1.000	-0.127	0.081	0.018	0.053	0.000000	0.000000	-773.65	-924
2	FID		ACIS-I-4	7.07	8335	1.000	-0.053	0.069	0.023	0.047	0.000000	0.000000	2140.46	981
3	GUIDE	used	1157891512	7.13	16674	1.000	-0.425	-0.046	0.129	0.220	349.106187	-55.526930	-1624.94	855
4	GUIDE	used	1157894416	9.58	16644	1.000	0.034	0.023	0.202	0.320	348.261807	-55.570308	-1090.46	-786
5	GUIDE	used	1157896816	9.17	16658	1.000	0.271	0.095	0.174	0.276	348.102633	-55.775075	-299.17	-933
6	GUIDE	used	1157897992	9.84	16513	1.000	0.126	-0.201	0.340	0.521	347.829681	-56.477376	2287.43	-880
7	GUIDE	used	1157899560	9.53	16657	1.000	-0.017	0.152	0.208	0.331	348.478710	-55.343217	-1986.87	-541

2.4 Star Slots

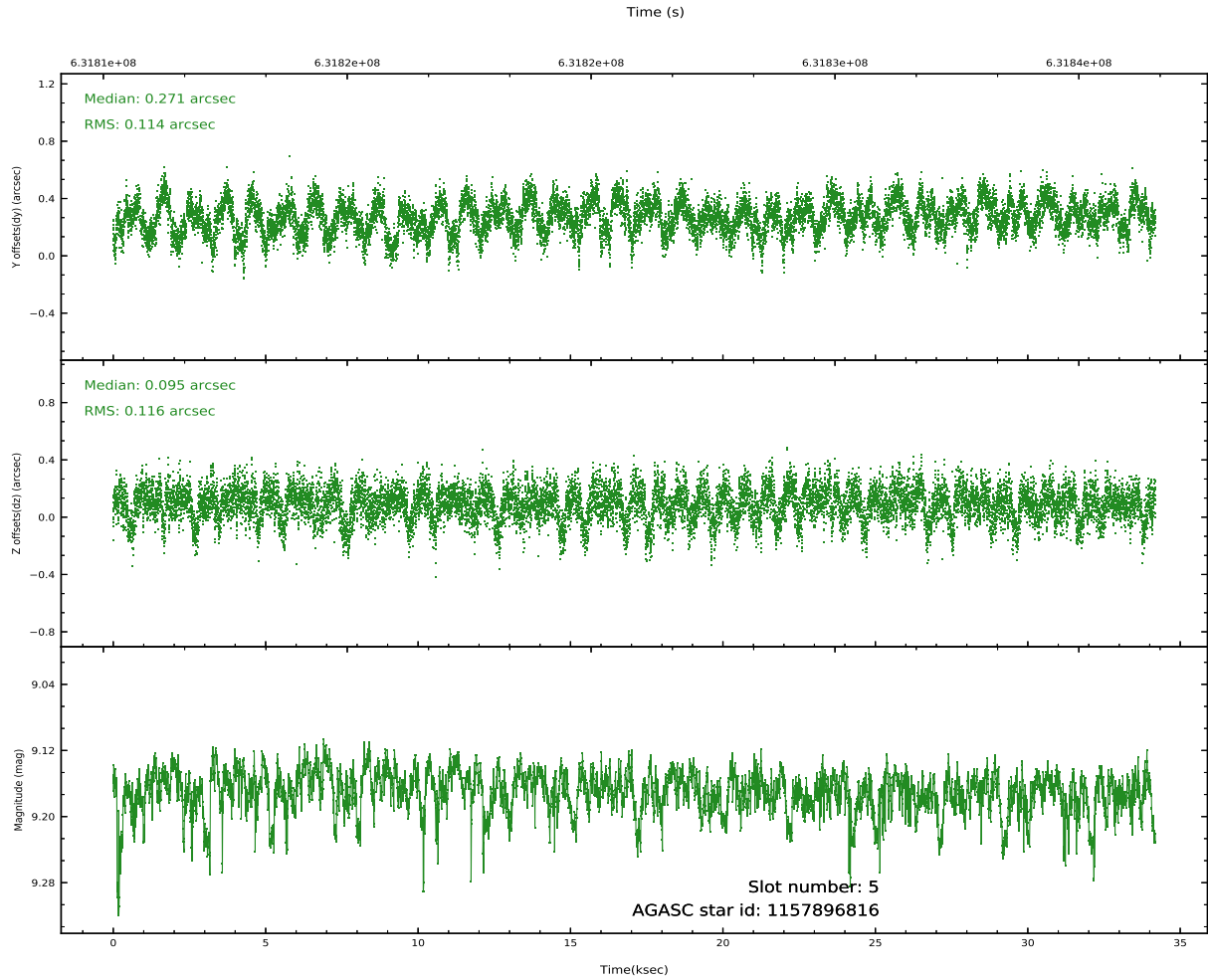
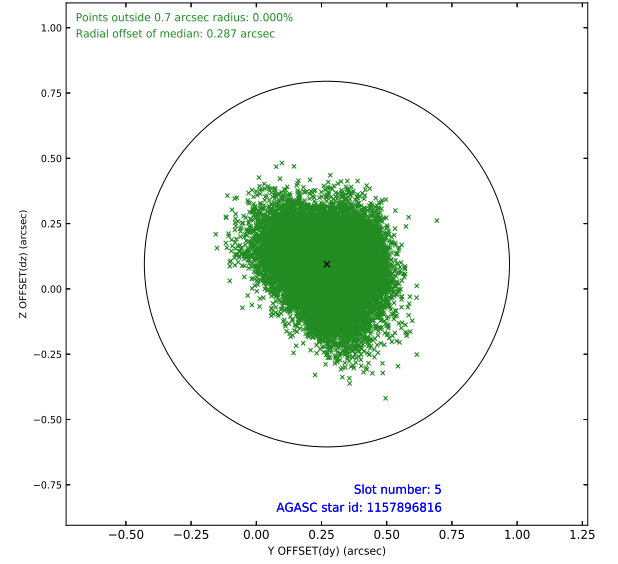
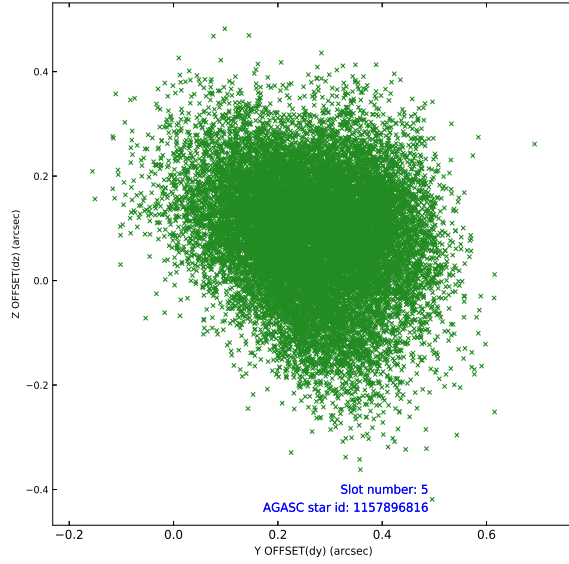
2.4.1 Slot 3



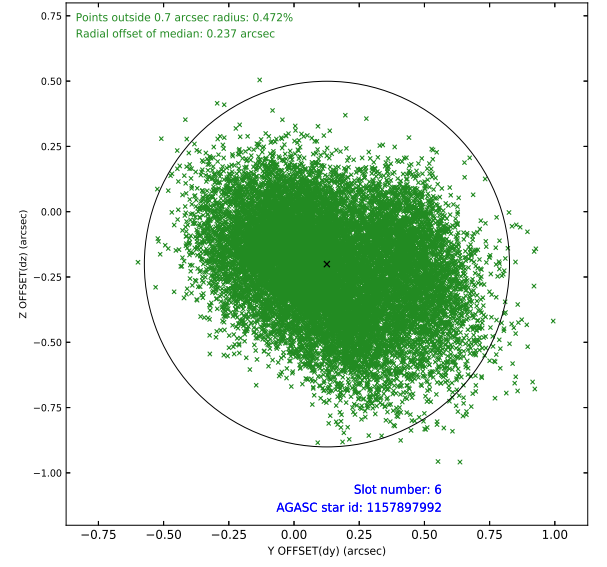
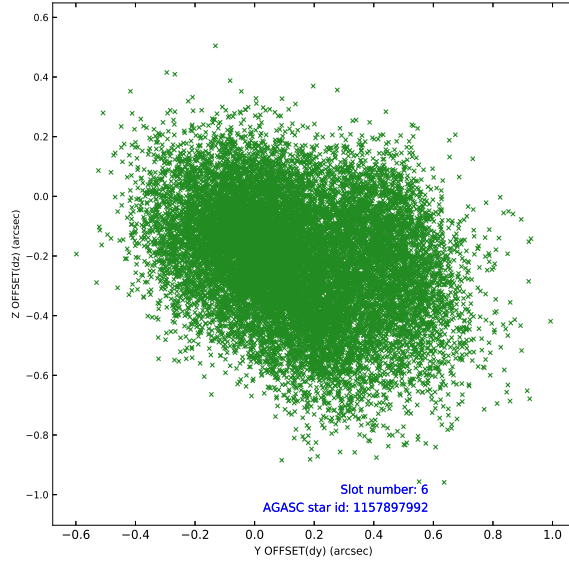
2.4.2 Slot 4



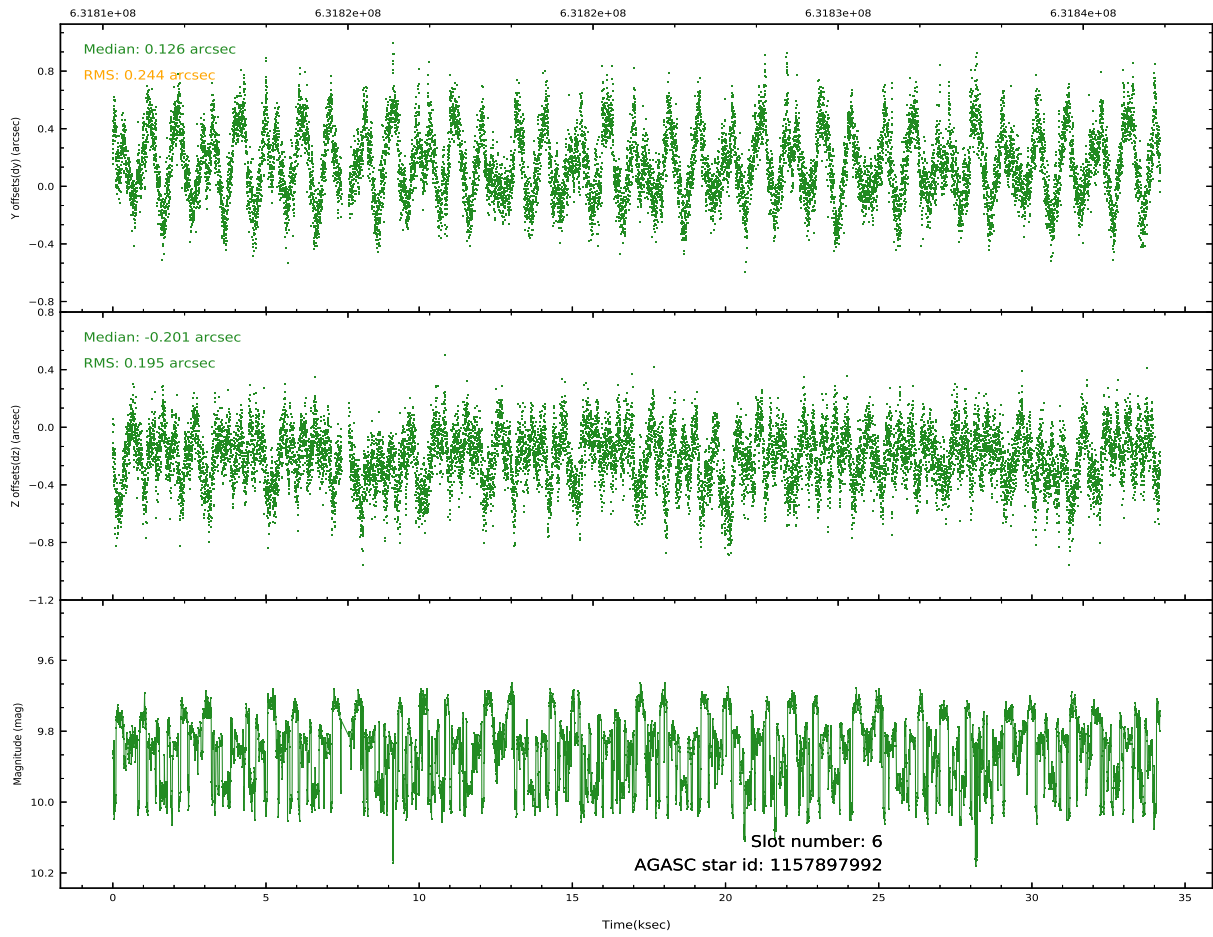
2.4.3 Slot 5



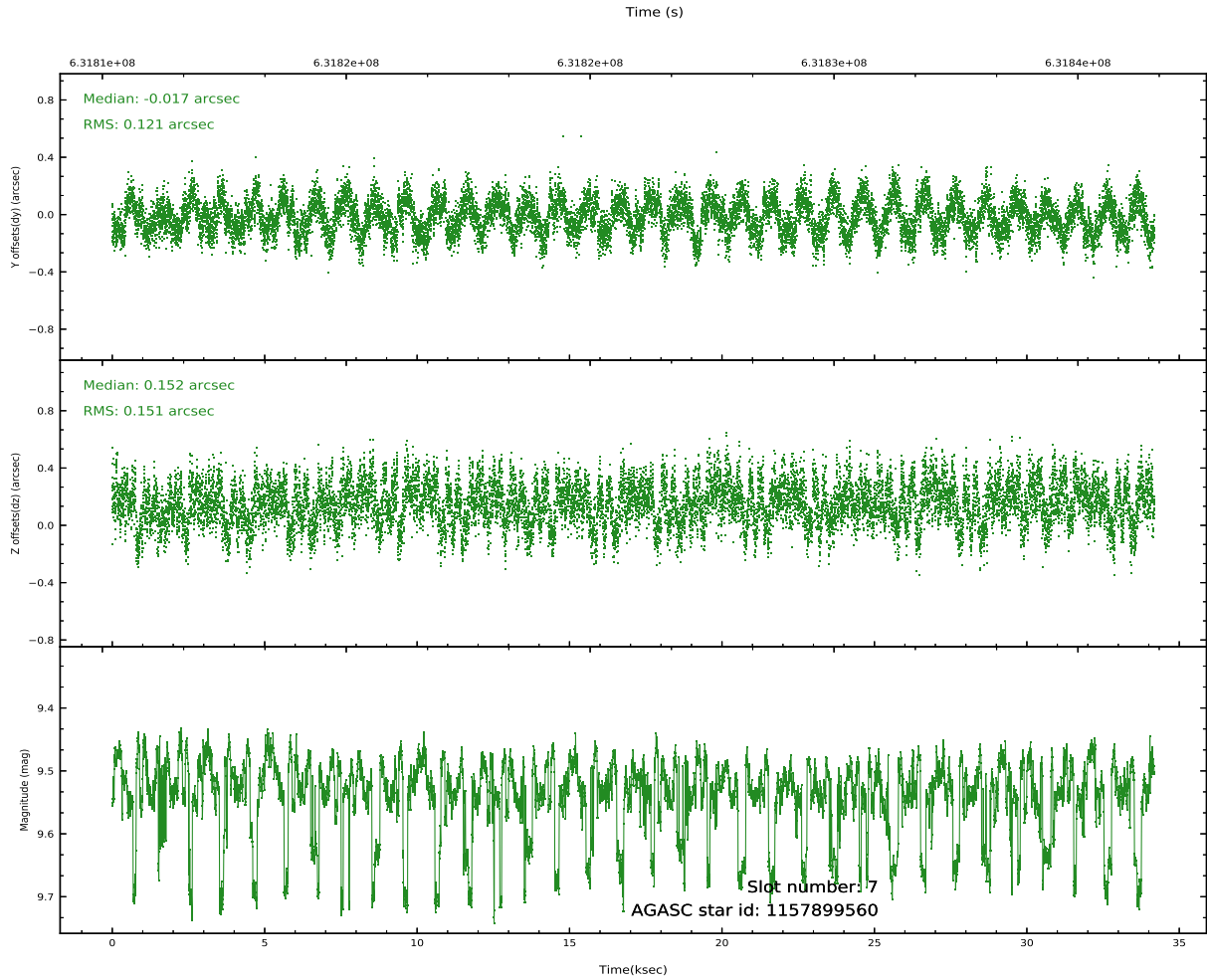
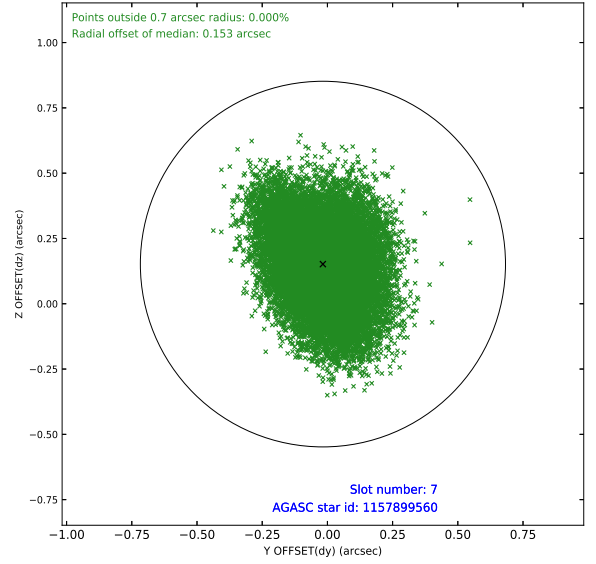
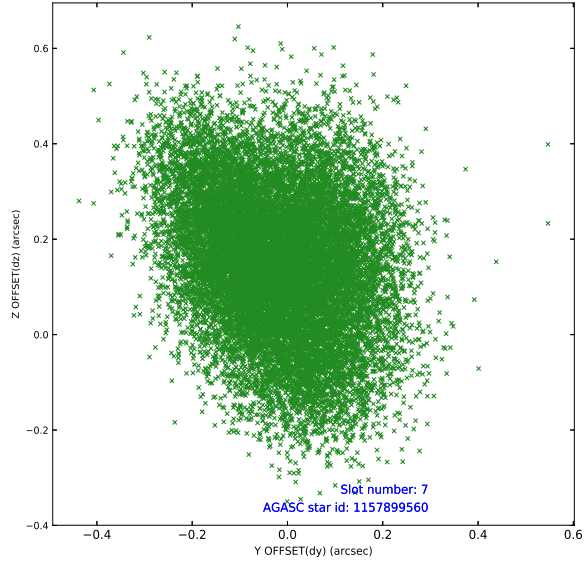
2.4.4 Slot 6



Time (s)

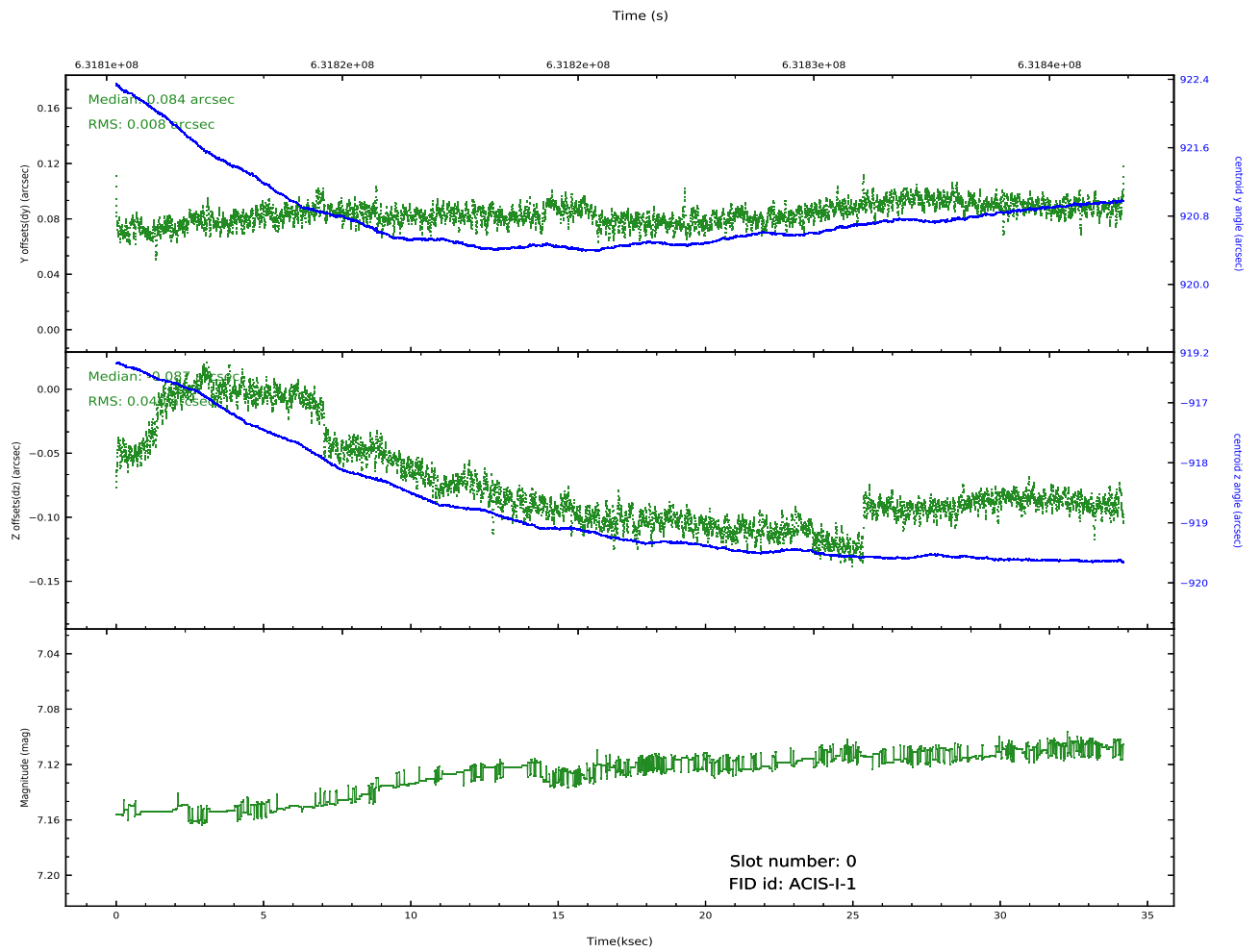
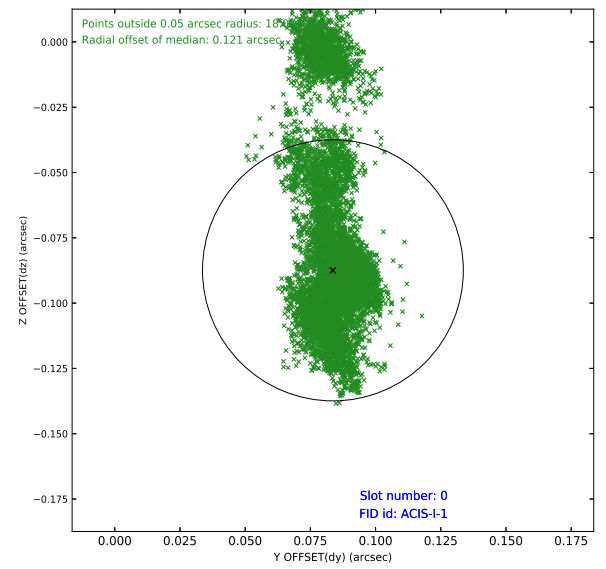
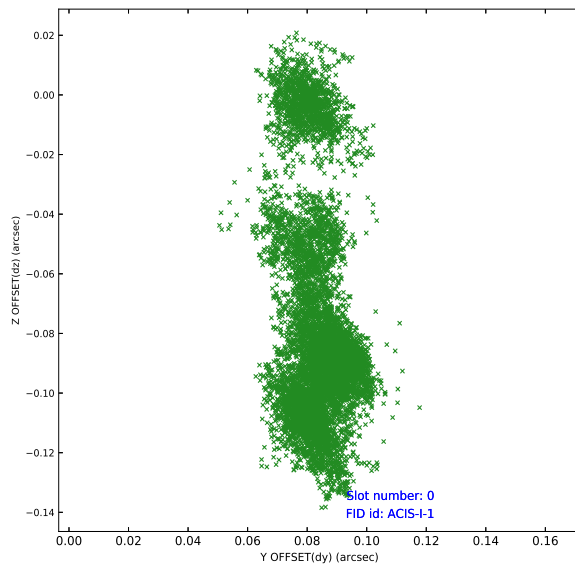


2.4.5 Slot 7

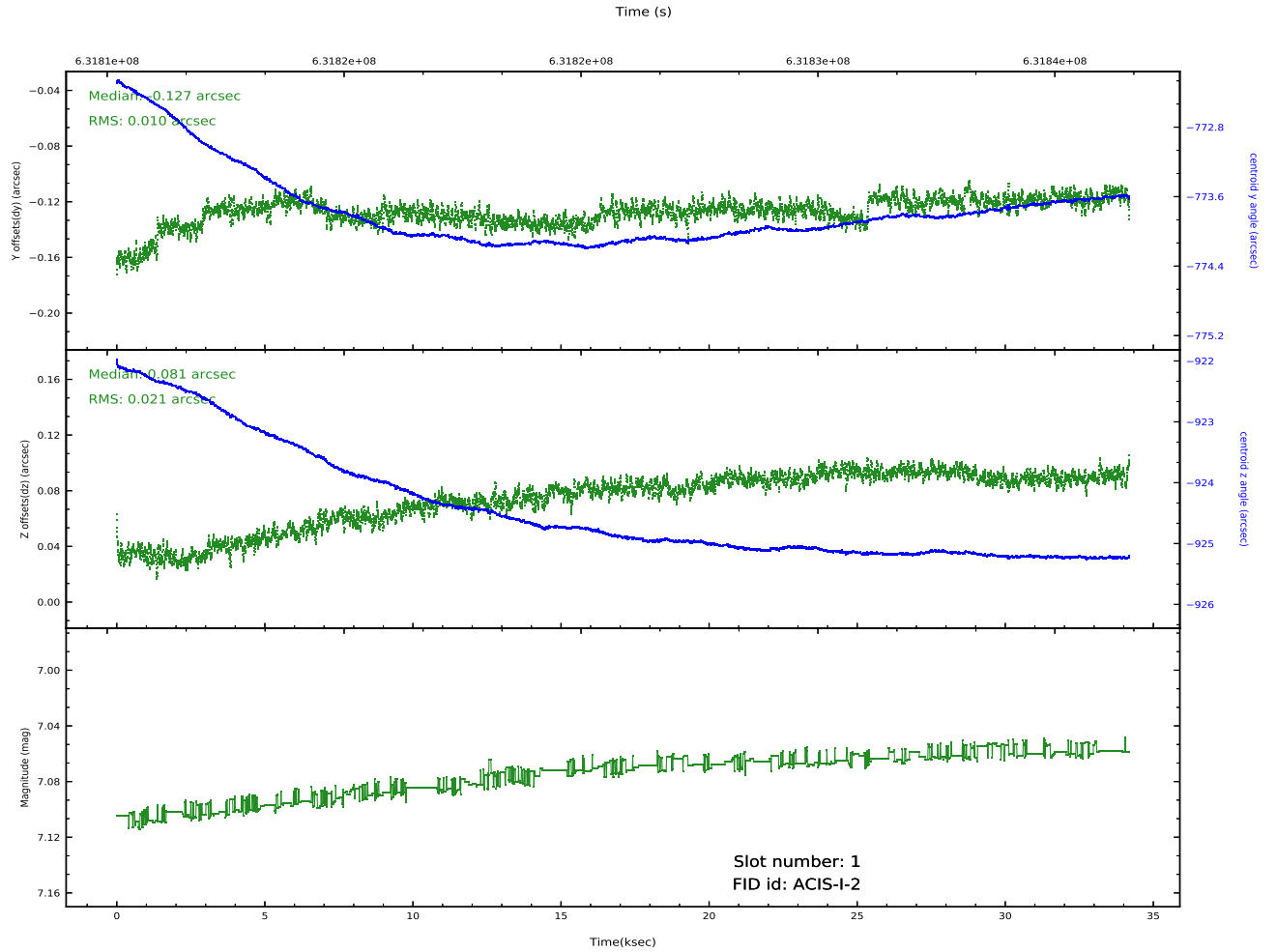
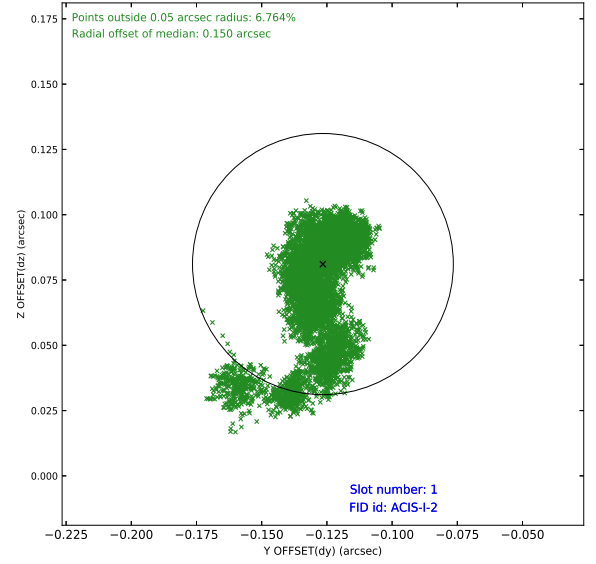
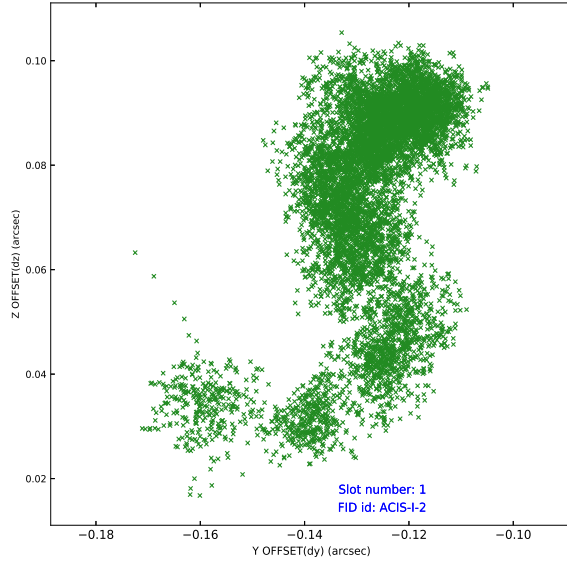


2.5 FID Slots

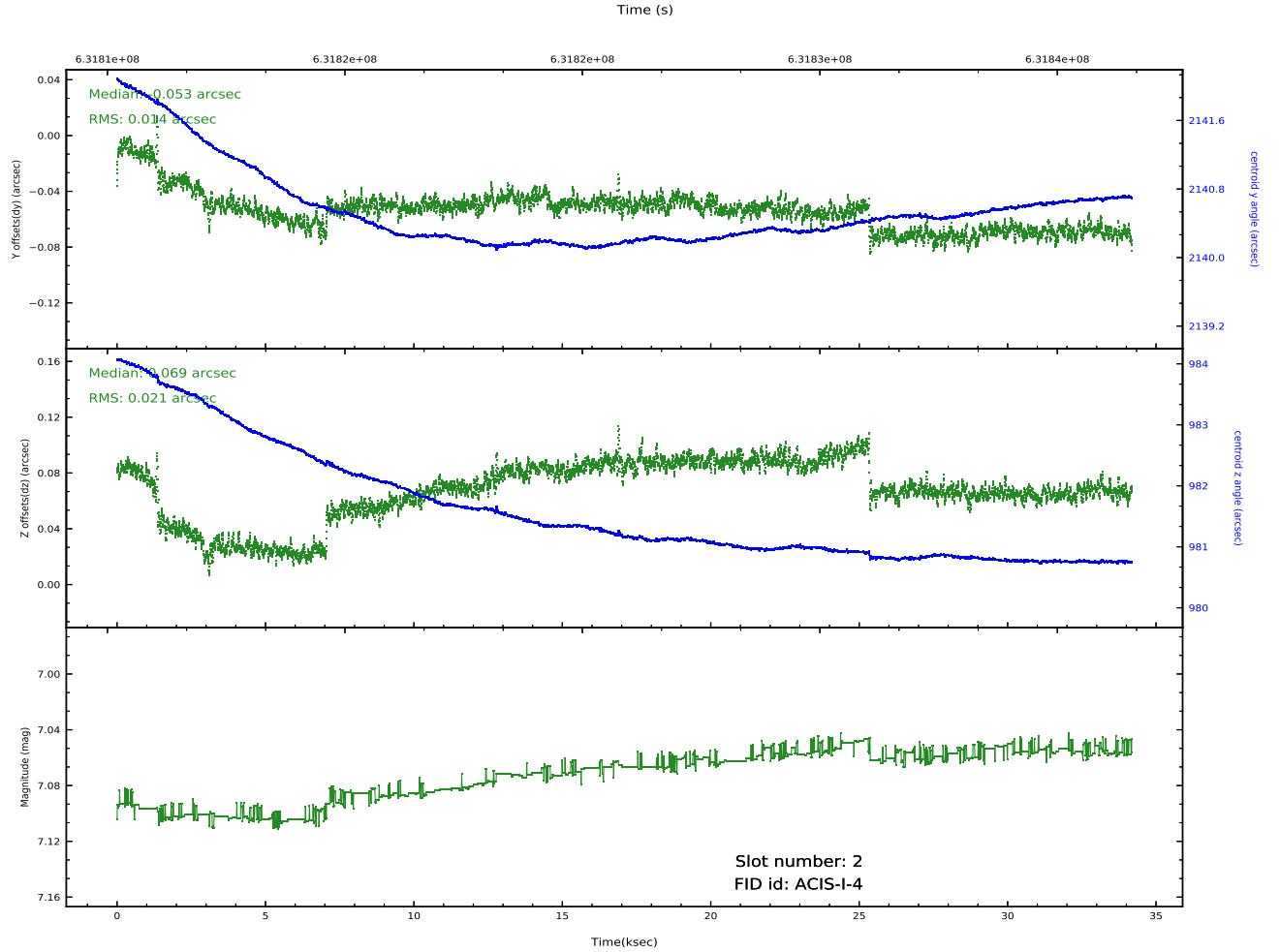
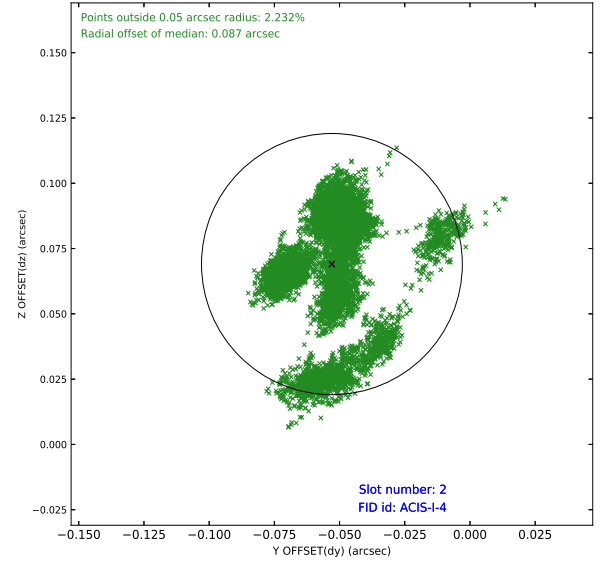
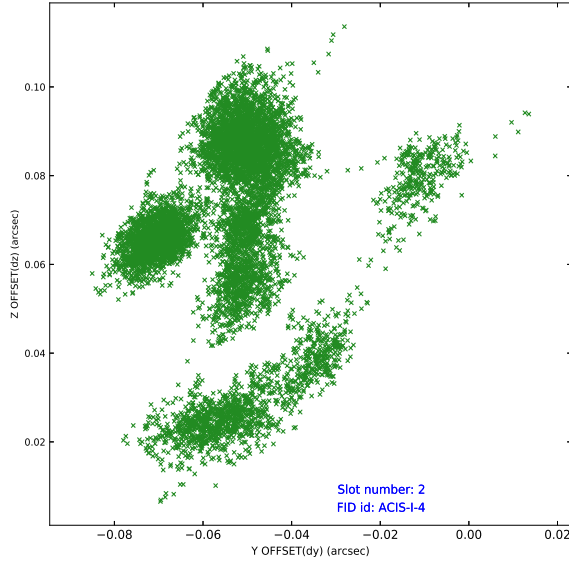
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	34.06264220345

A.2 Comments