

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20752 - L2 Version 2
Chandra X-Ray Center

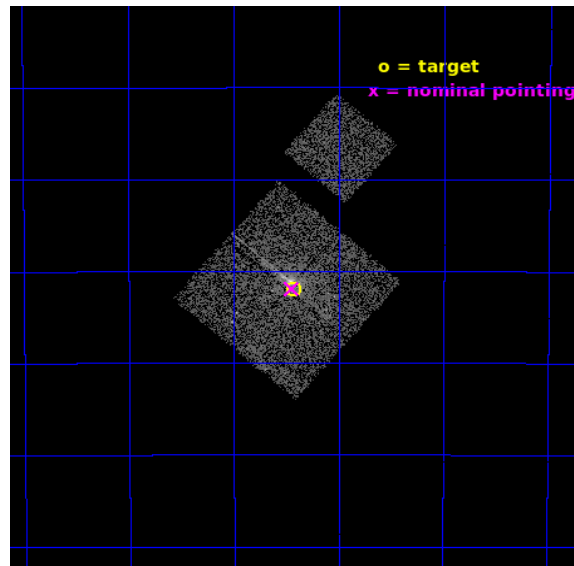
L2 Processing Date : Oct 24 2020

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1 Front

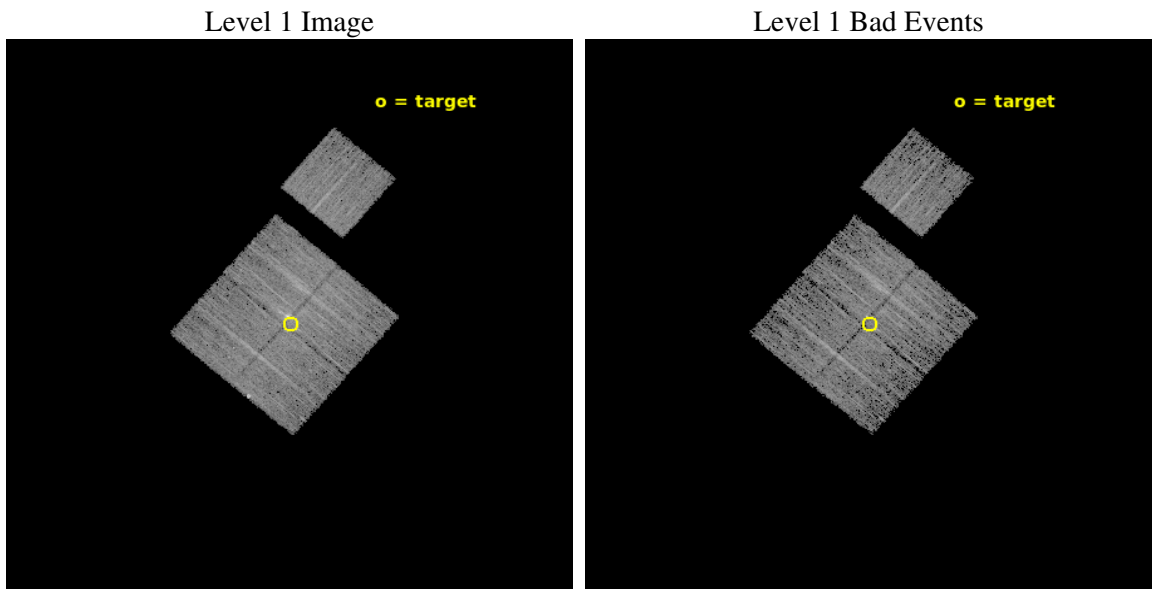
seq_num	703617	Sequence number
obs_id	20752	Observation id
title	Continuous Monitoring of the Jet in Centaurus A	Proposal title
observer	Ralph Kraft	Principal investigator
object	Centaurus A	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	201.356921	Observer's specified target RA [deg]
dec_targ	-43.032886	Observer's specified target Dec [deg]
ra_nom	201.36154748917	Nominal RA [deg]
dec_nom	-43.03208090679	Nominal Dec [deg]
roll_nom	40.654784518166	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5064.8588316441	Sum of GTIs [s]
livetime	4998.6827223138	Livetime [s]
ontime0	5064.7357116938	Sum of GTIs [s]
ontime1	5064.7767516375	Sum of GTIs [s]
ontime2	5064.8177917004	Sum of GTIs [s]
ontime3	5064.8588316441	Sum of GTIs [s]
ontime6	5064.6946716309	Sum of GTIs [s]
l2events	23913	Number of level 2 events



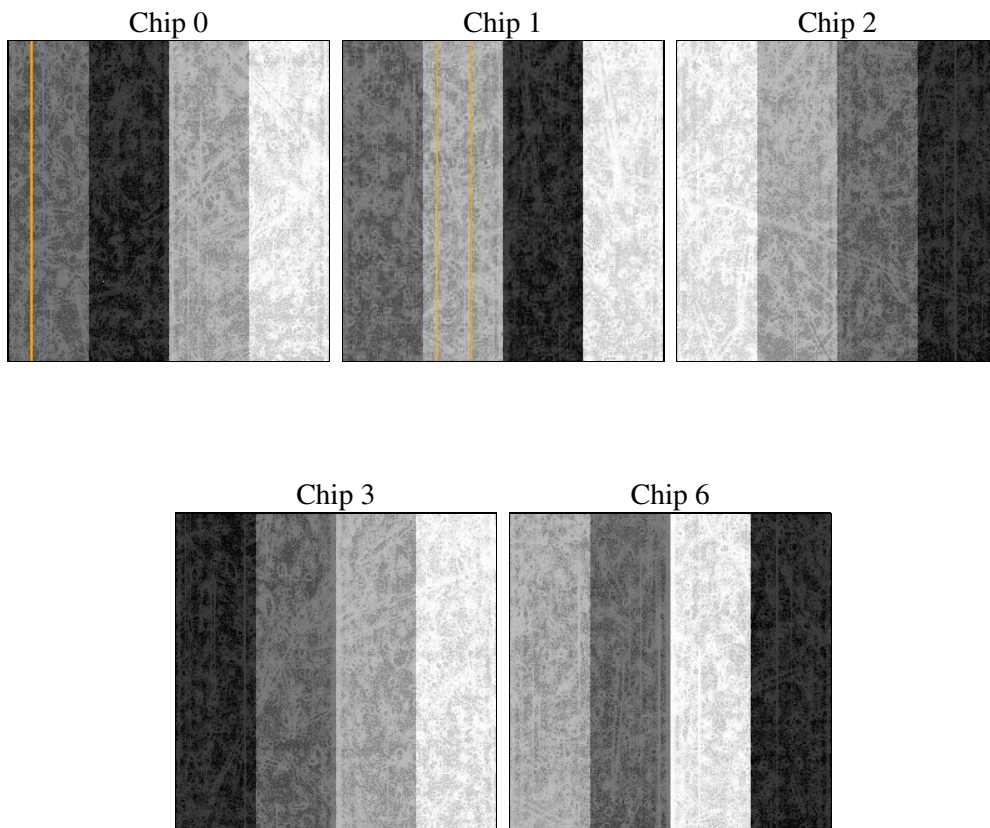
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	5064.8588316441	Sum of GTIs [s]
caldsver	4.9.3	 	ontime0	5064.7357116938	Sum of GTIs [s]
date	2020-10-25T01:47:41	Date and time of file creation	ontime1	5064.7767516375	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	5064.8177917004	Sum of GTIs [s]
			ontime3	5064.8588316441	Sum of GTIs [s]
			ontime6	5064.6946716309	Sum of GTIs [s]
			l1events	198145	Number of level 1 events

2.1.4 Events

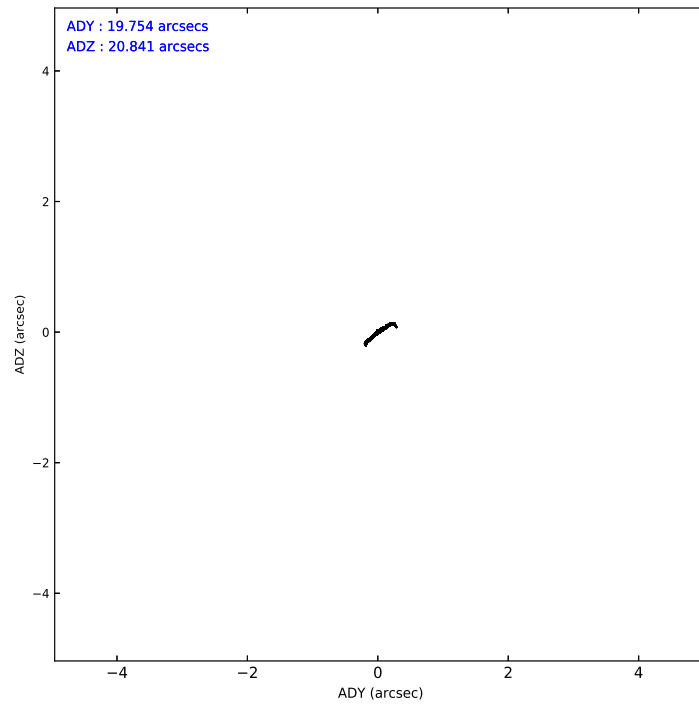
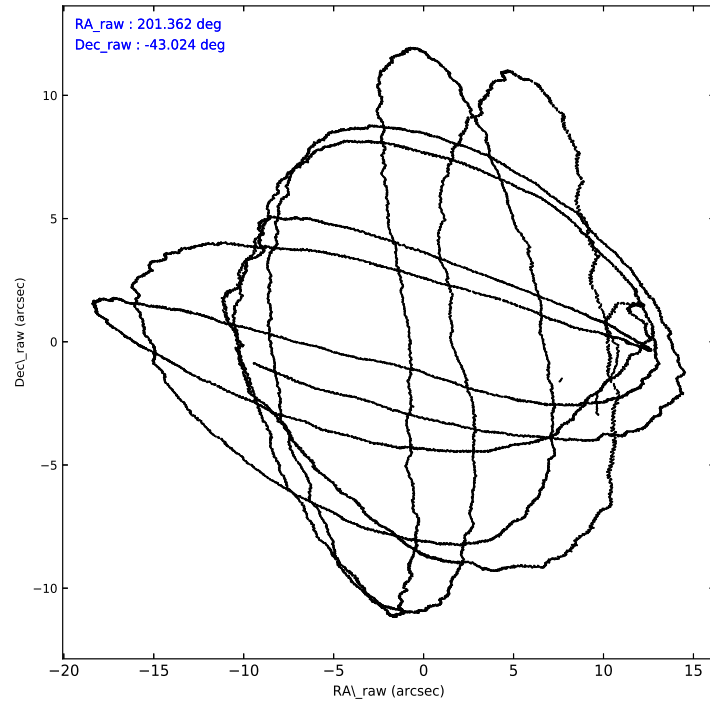
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	35972	37342	45716	40770	38345
rejected events	31099	31803	37511	35486	34101
rejected %	86%	85%	82%	87%	88%

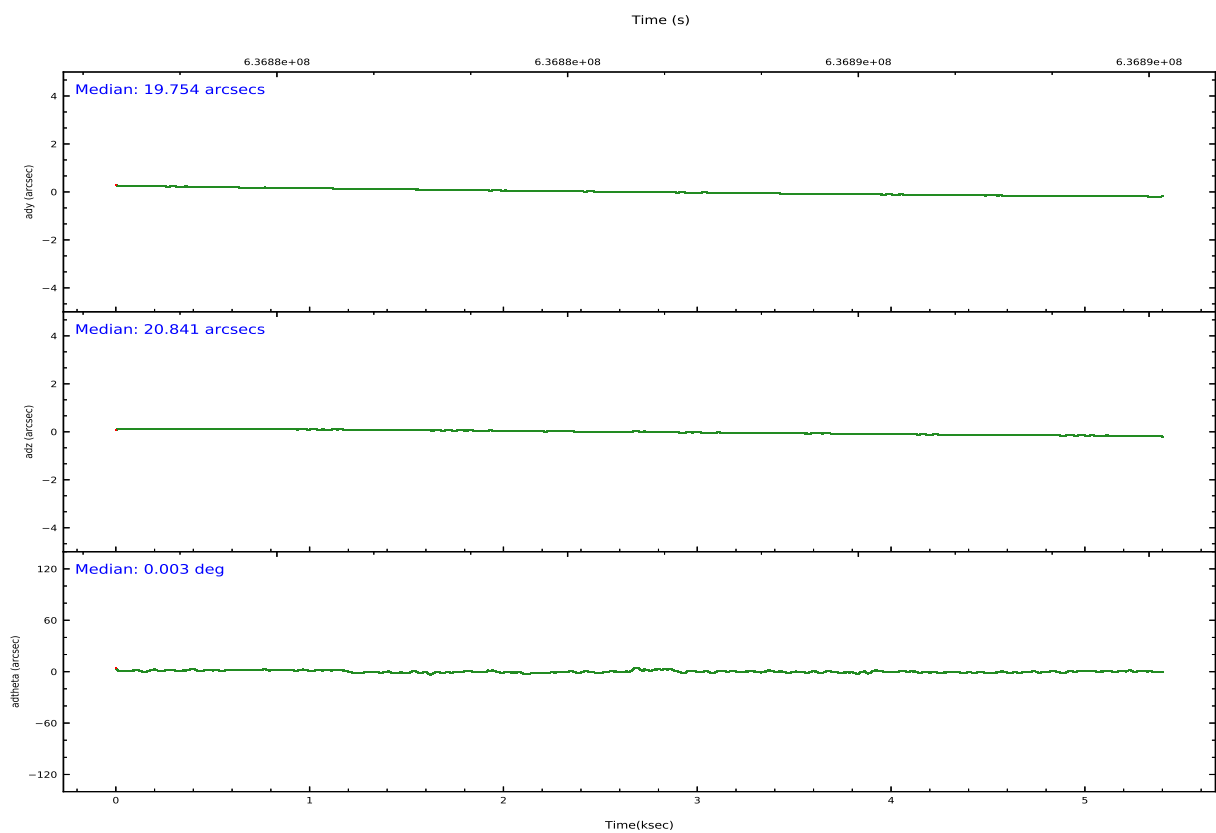
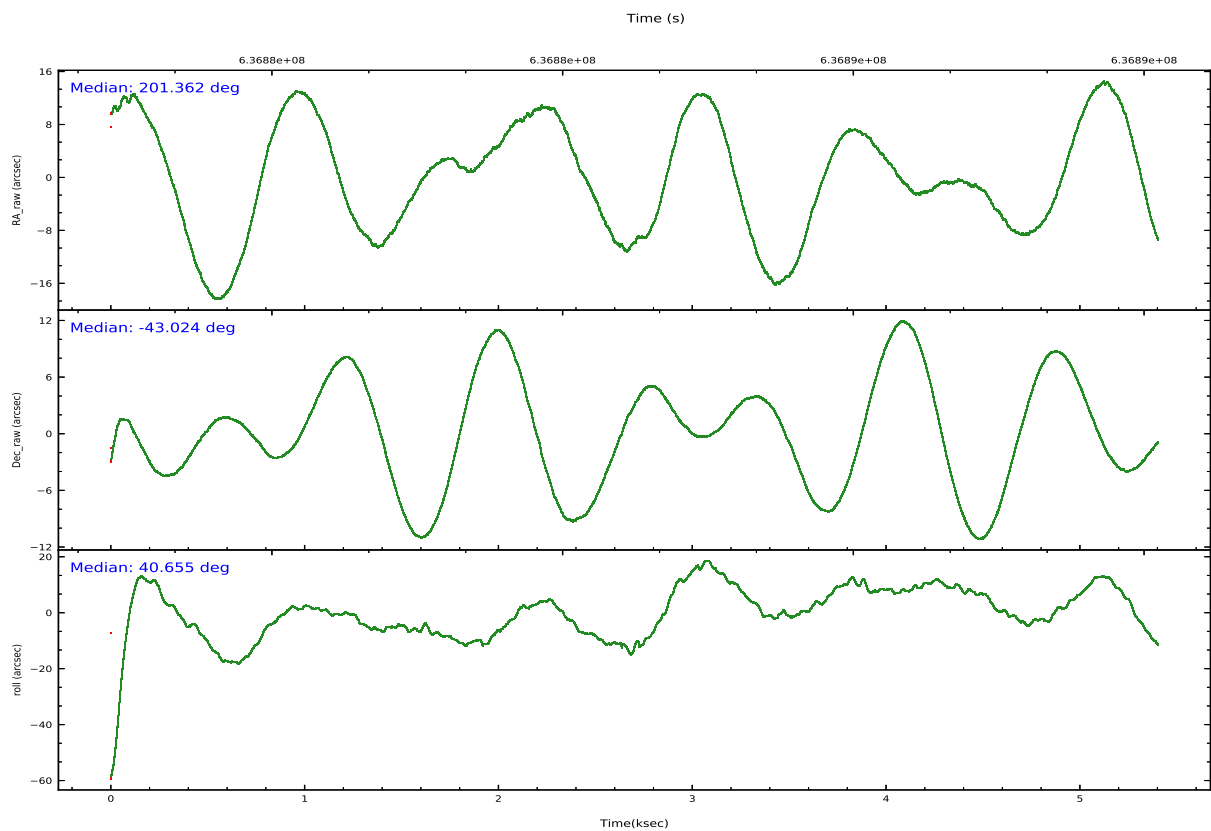
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	1834	2453	4296	2410	1398
	5%	6%	9%	5%	3%
grade 1 events	18	33	103	24	13
	0%	0%	0%	0%	0%
grade 2 events	1155	1131	1534	978	1007
	3%	3%	3%	2%	2%
grade 3 events	480	437	576	461	371
	1%	1%	1%	1%	0%
grade 4 events	444	455	618	479	416
	1%	1%	1%	1%	1%
grade 5 events	1559	1650	1650	1770	1598
	4%	4%	3%	4%	4%
grade 6 events	966	1071	1192	962	1054
	2%	2%	2%	2%	2%
grade 7 events	29516	30112	35747	33686	32488
	82%	80%	78%	82%	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	FAINT	FAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	201.349619	201.36154748917	CCD I2 on	Y	Y
[deg] Pointing Dec	-43.049919	-43.03208090679	CCD I3 on	Y	Y
[deg] Pointing Roll	40.438112	40.654784518166	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	-233.592463	-233.5874344608287	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	636882574.184000	636881521.58943	CCD S5 on	N	N
Observation start date	2018-03-08T07:48:25	2018-03-08T07:32:01	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	636887574.184000	636888439.82734	On-chip summing requested	N	N
Observation end date	2018-03-08T09:11:45	2018-03-08T09:27:19	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



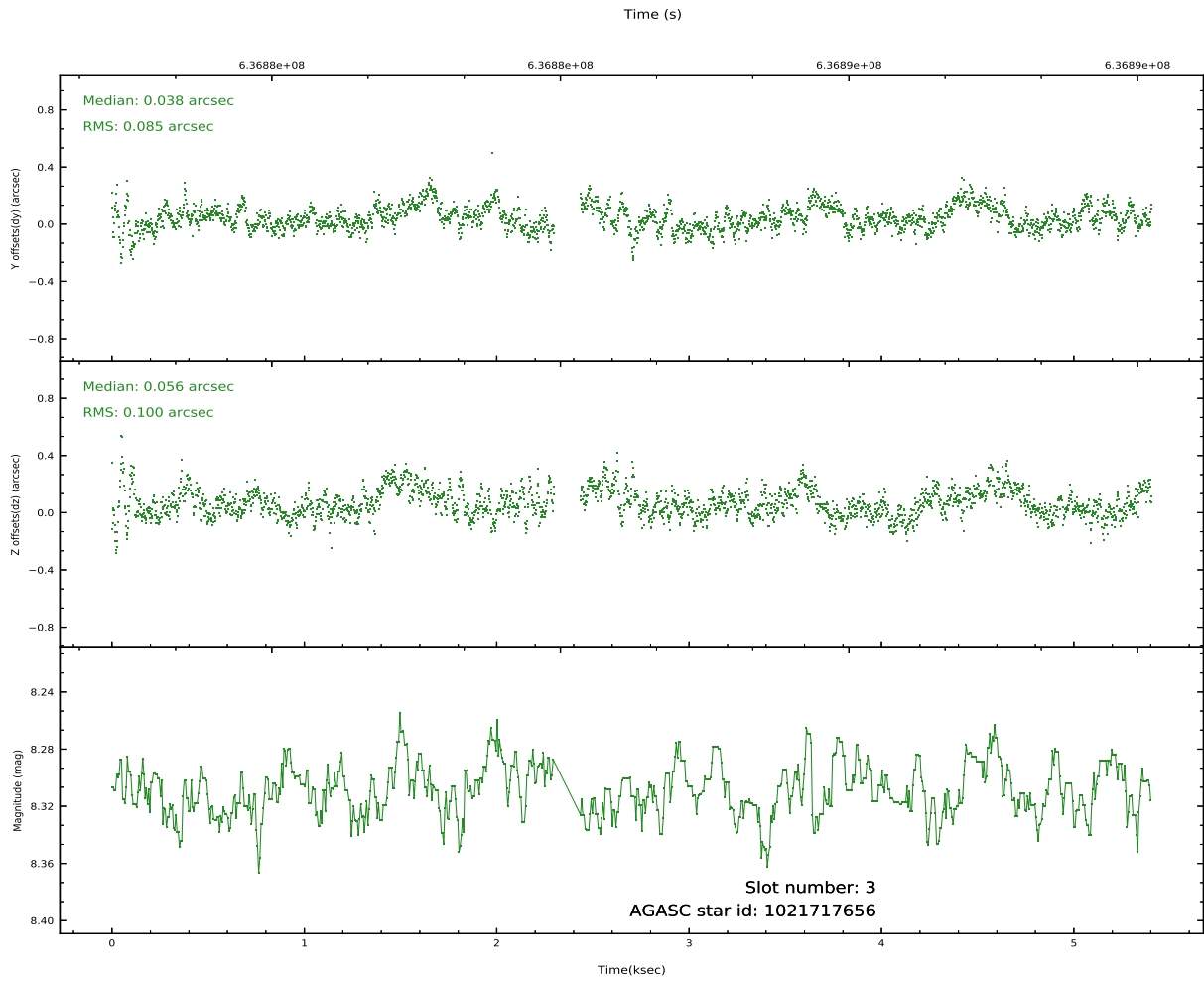
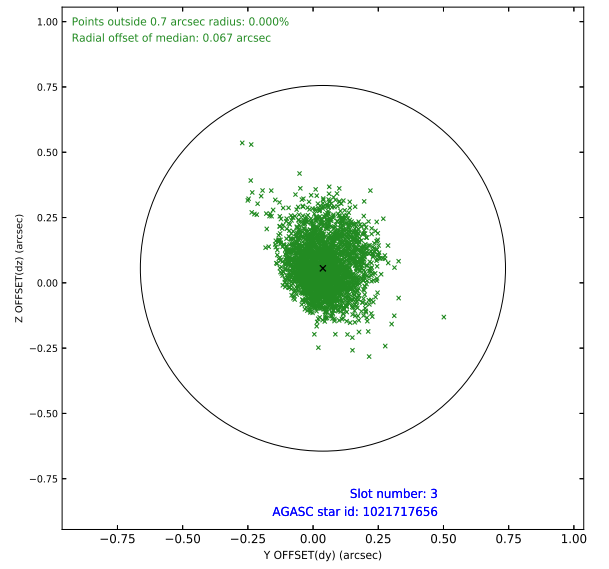
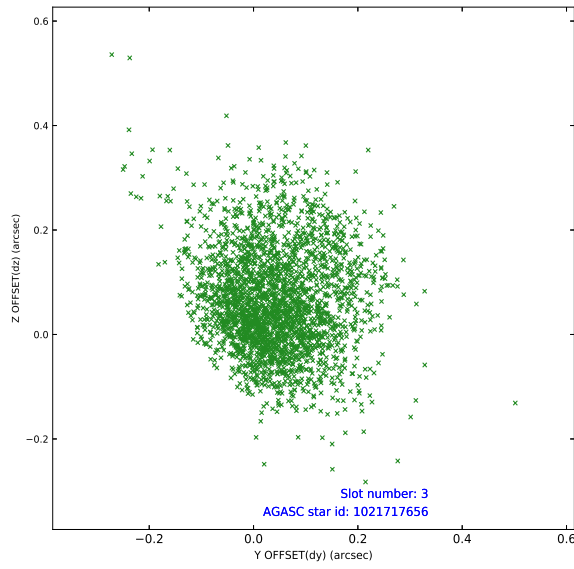


Slot Statistics

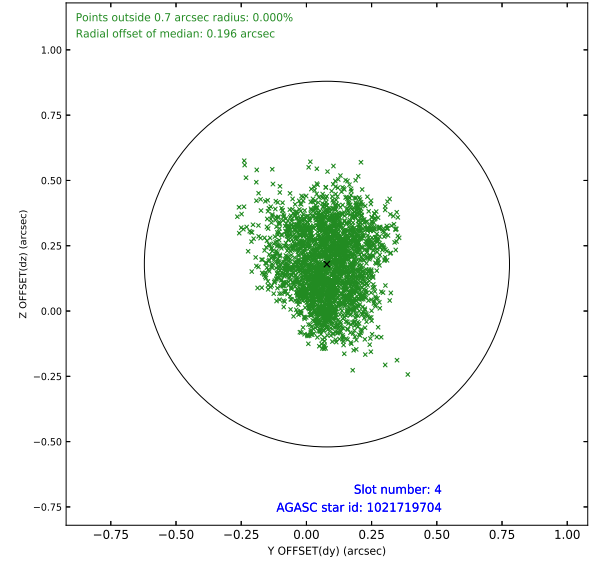
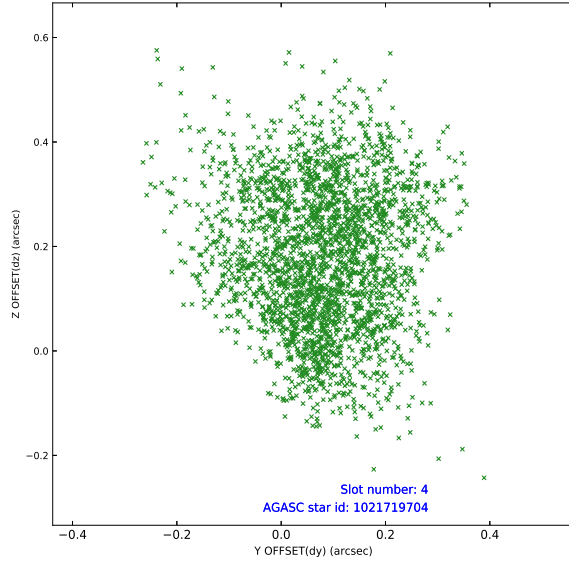
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-2	7.10	1319	1.000	0.086	-0.037	0.015	0.026	0.000000	0.000000	-774.60	-850
1	FID		ACIS-I-4	7.14	1319	1.000	0.141	-0.019	0.012	0.026	0.000000	0.000000	2139.16	1054
2	FID		ACIS-I-5	7.21	1319	1.000	-0.330	0.126	0.011	0.019	0.000000	0.000000	-1827.25	1054
3	GUIDE	used	1021717656	8.31	2568	1.000	0.038	0.056	0.135	0.229	201.139642	-43.082878	-497.76	267
4	GUIDE	used	1021719704	7.54	2637	1.000	0.079	0.180	0.186	0.286	200.511976	-43.050426	-1685.49	1419
5	GUIDE	used	1021721304	9.59	2628	1.000	-0.132	-0.197	0.227	0.379	201.117326	-42.480412	859.20	1960
6	GUIDE	used	1021721672	9.48	2636	1.000	-0.197	0.112	0.210	0.346	201.740358	-43.079729	710.72	-748
7	GUIDE	used	1022235840	9.40	2630	1.000	0.201	-0.159	0.284	0.438	201.679306	-43.544276	-500.47	-1913

2.4 Star Slots

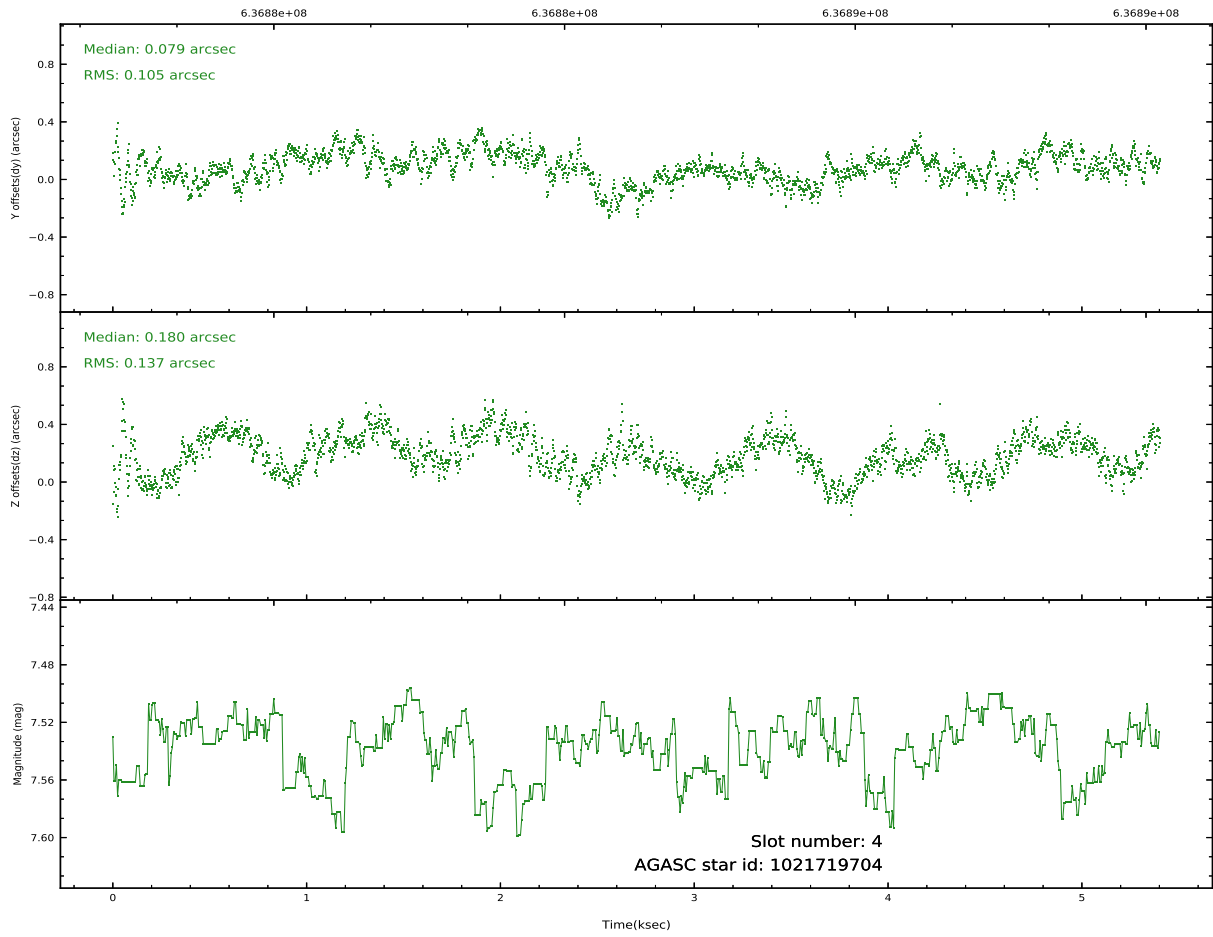
2.4.1 Slot 3



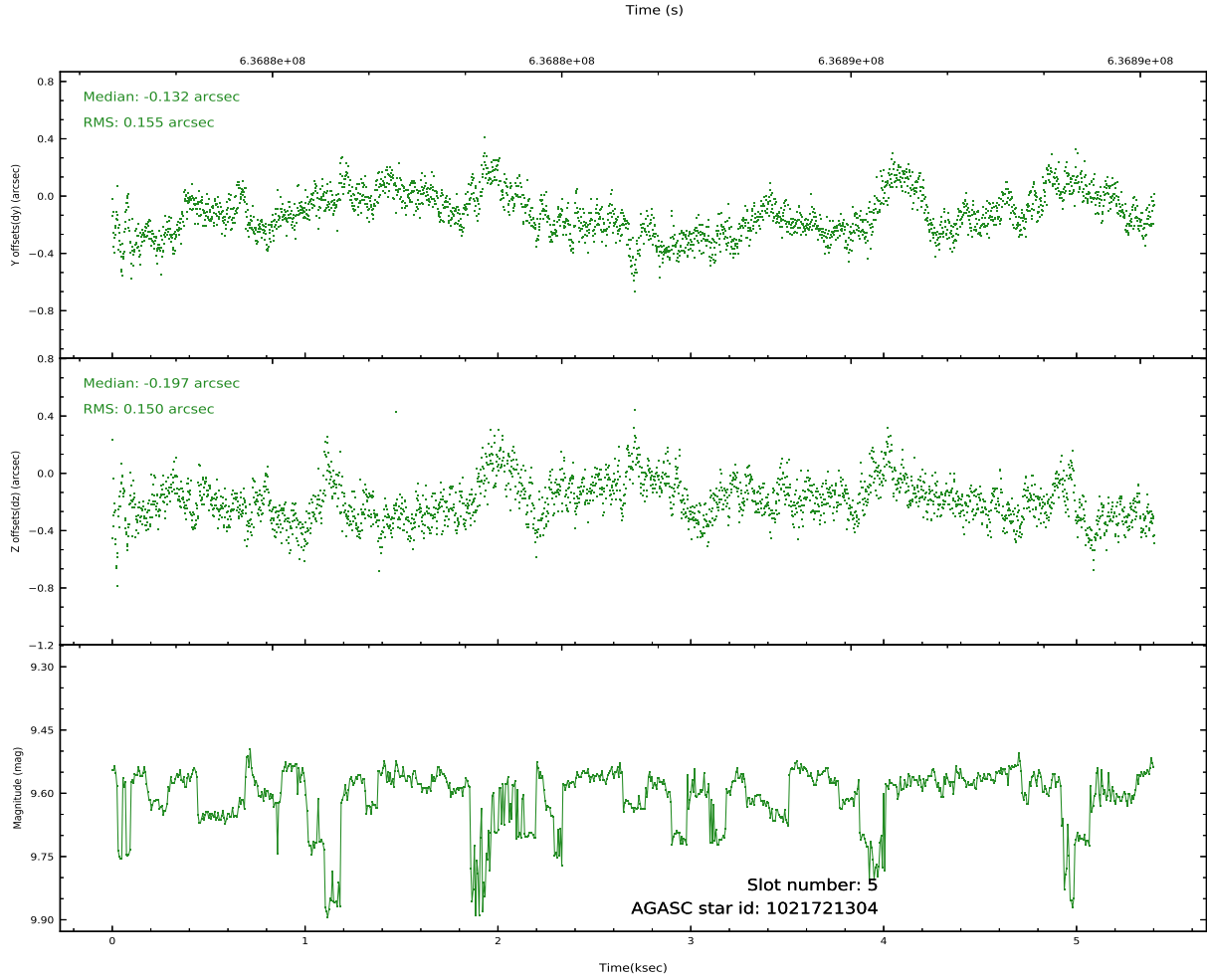
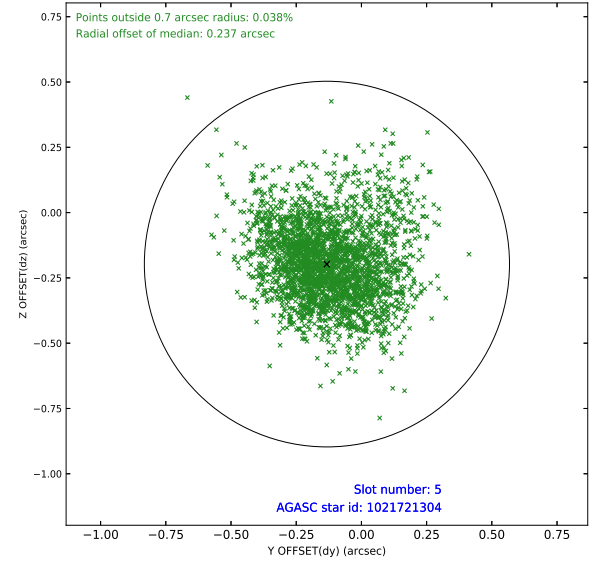
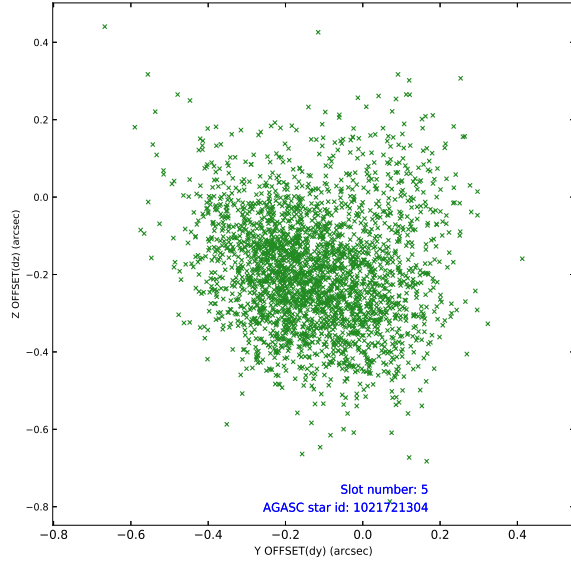
2.4.2 Slot 4



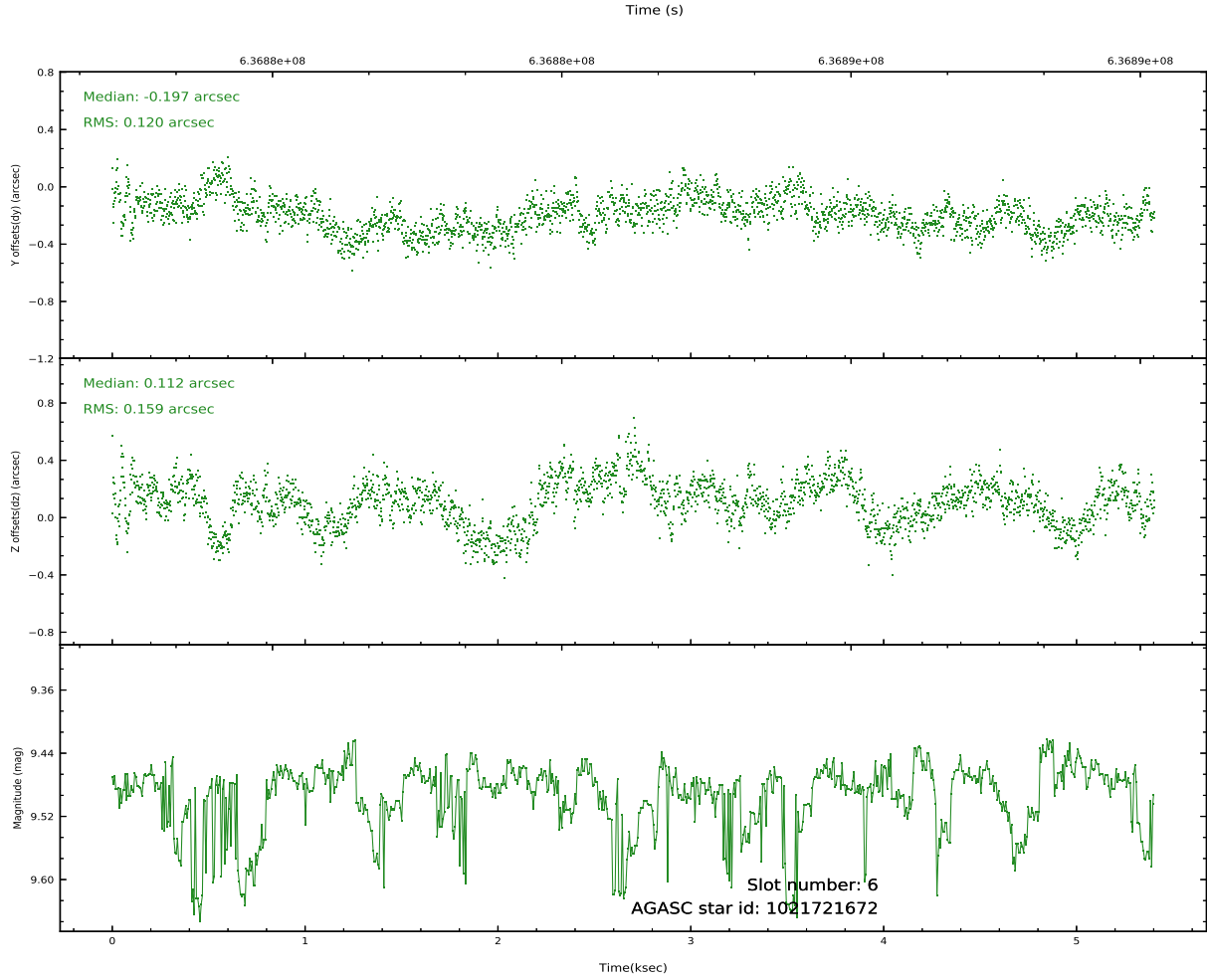
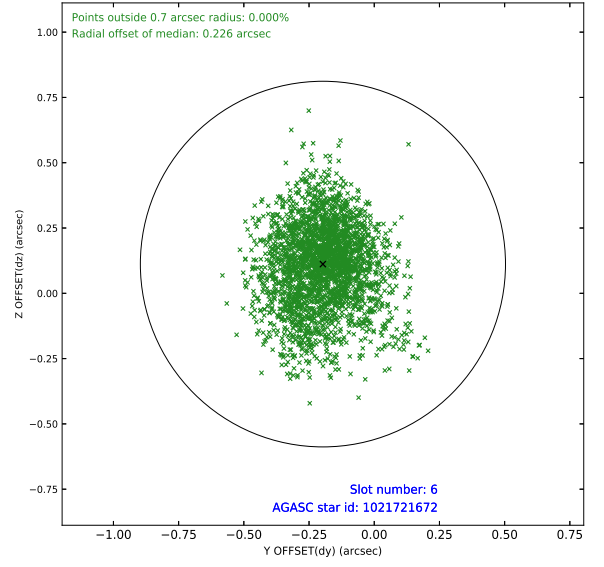
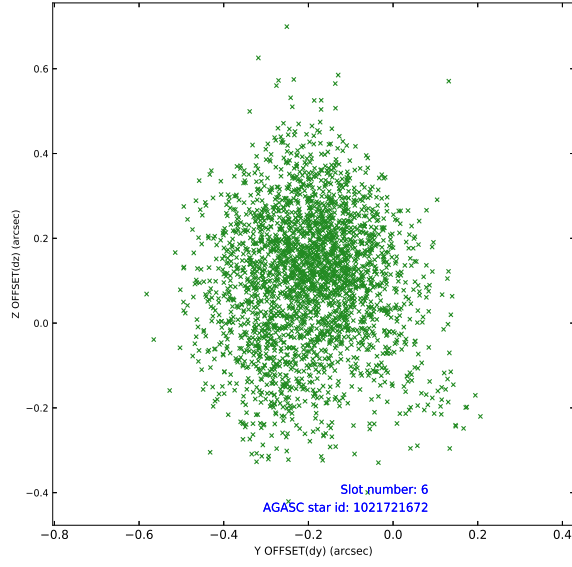
Time (s)



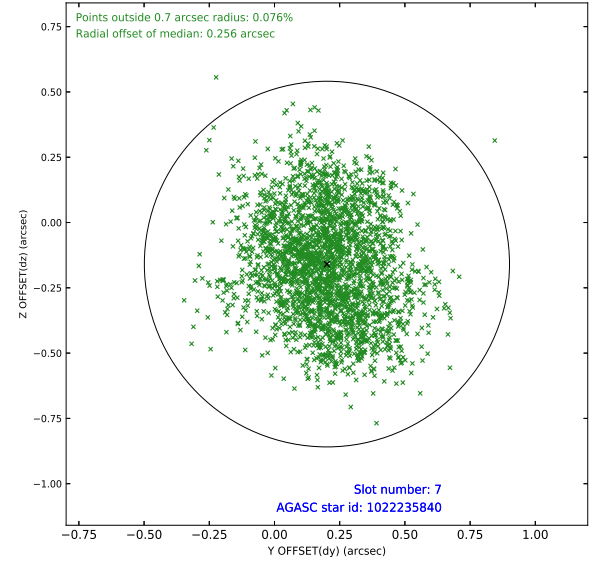
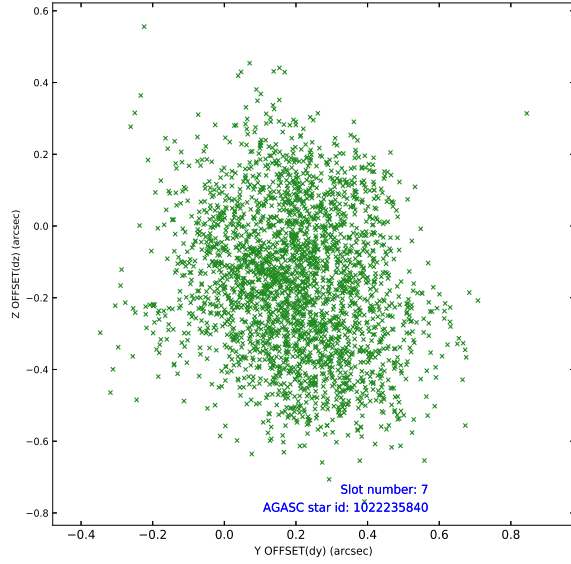
2.4.3 Slot 5



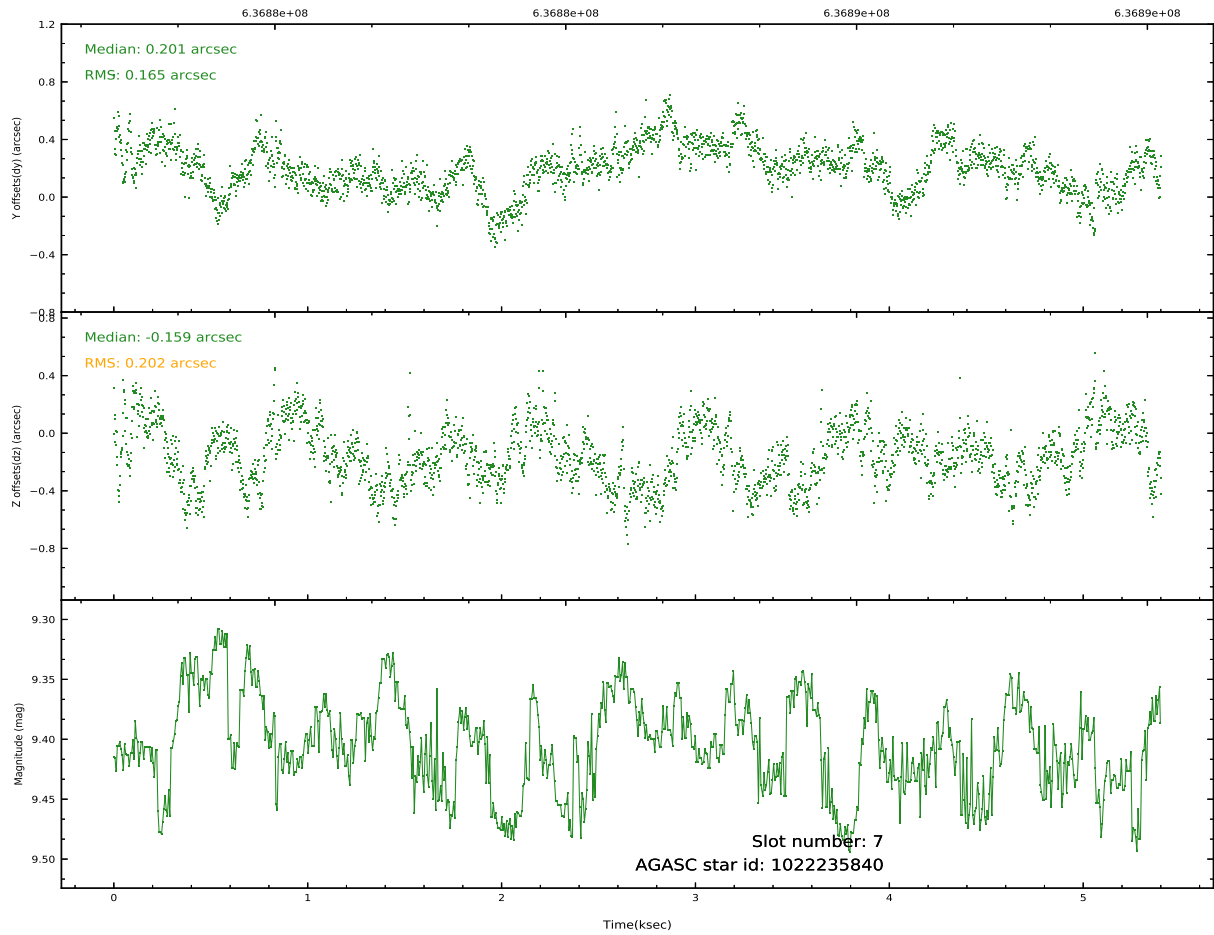
2.4.4 Slot 6



2.4.5 Slot 7

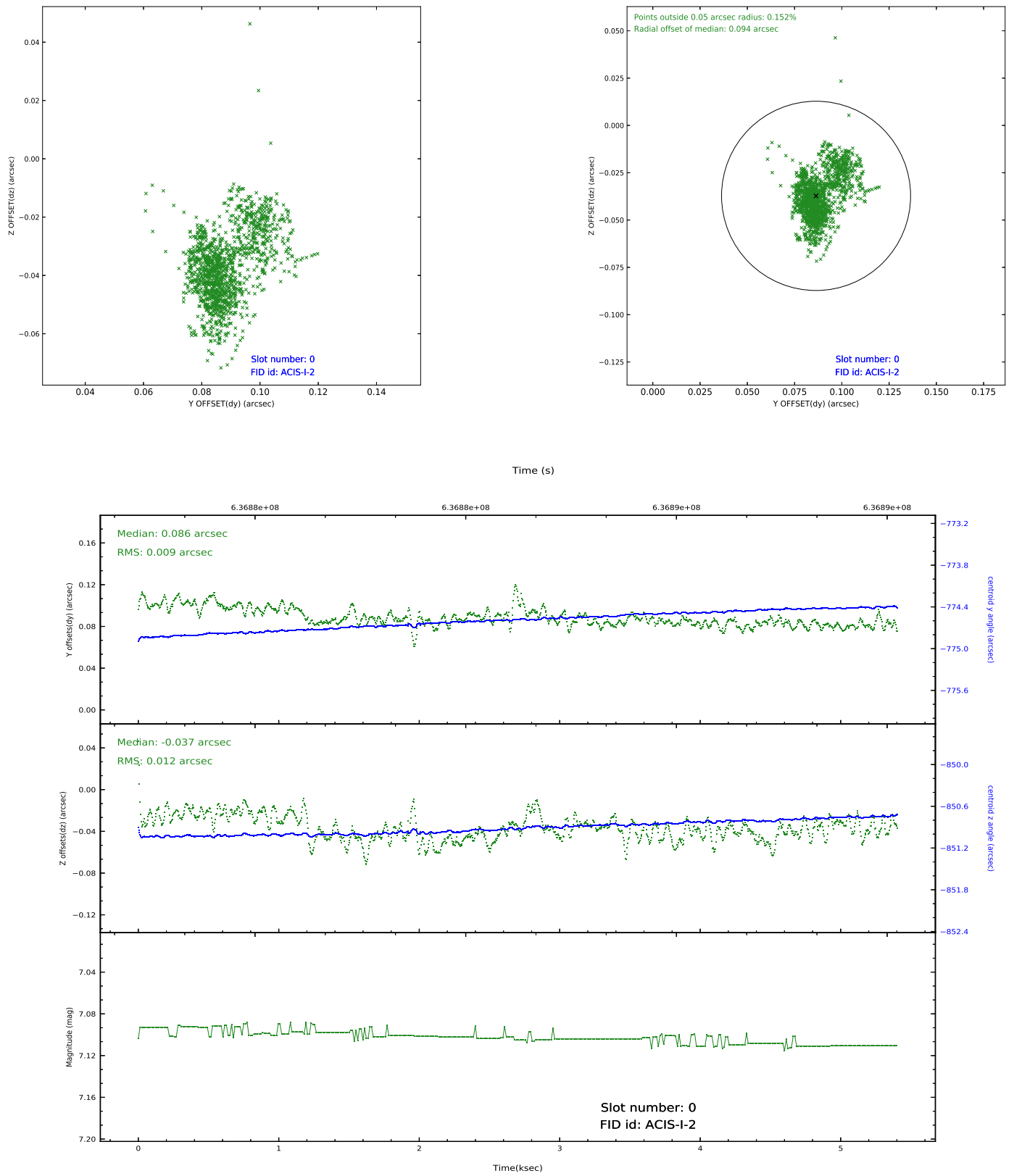


Time (s)

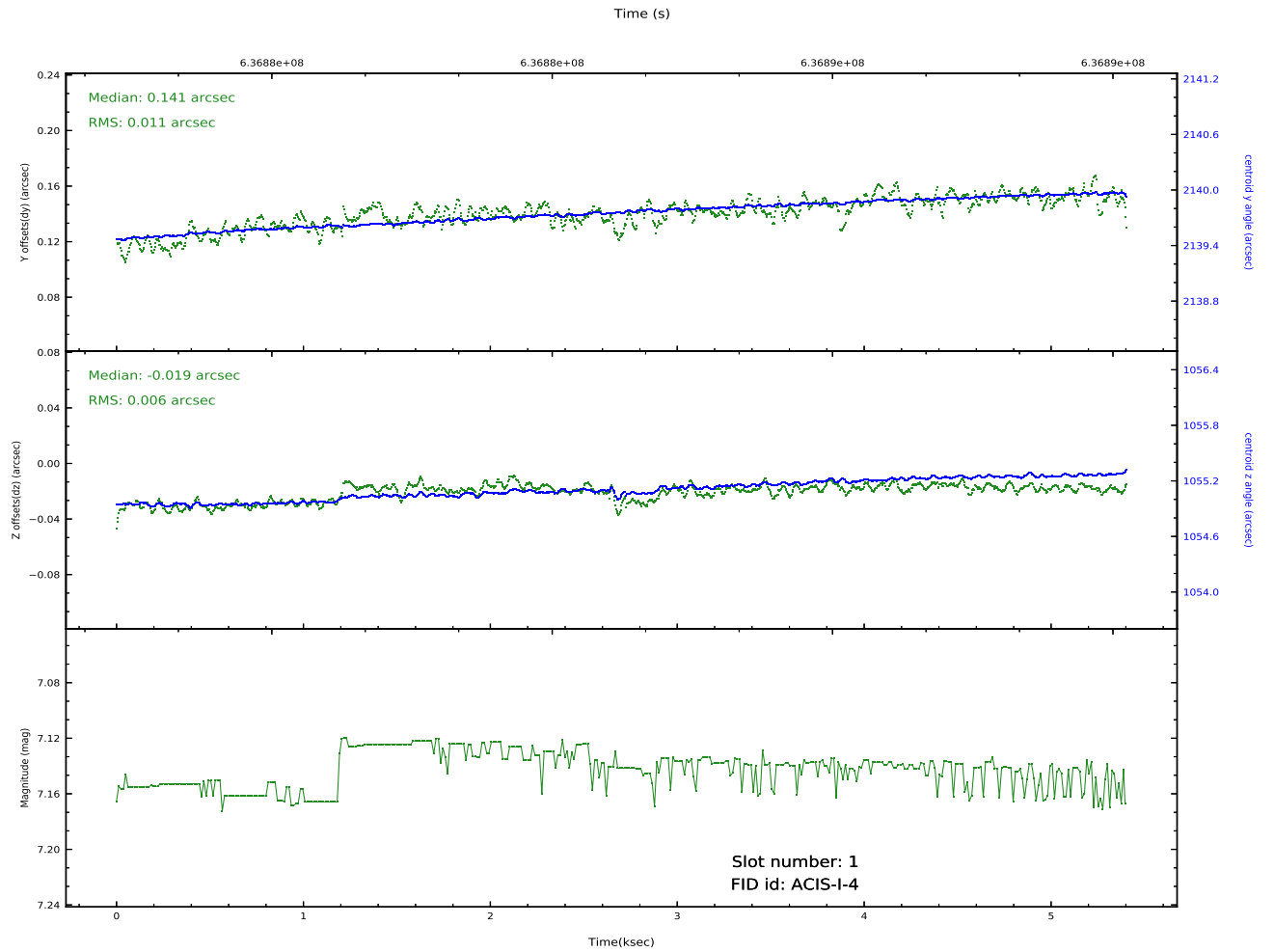
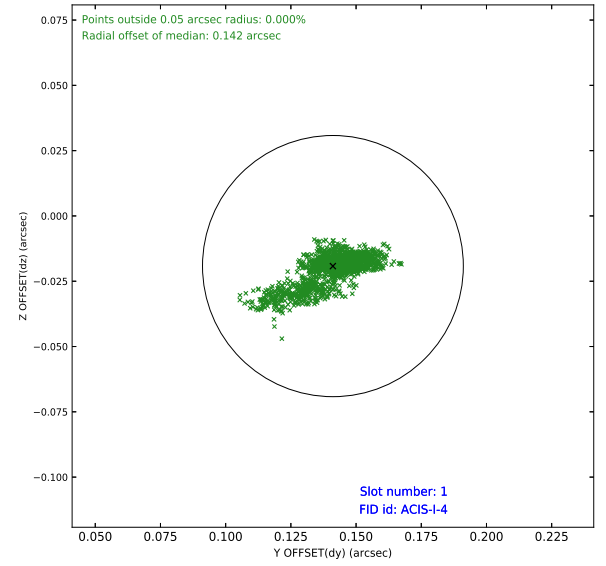
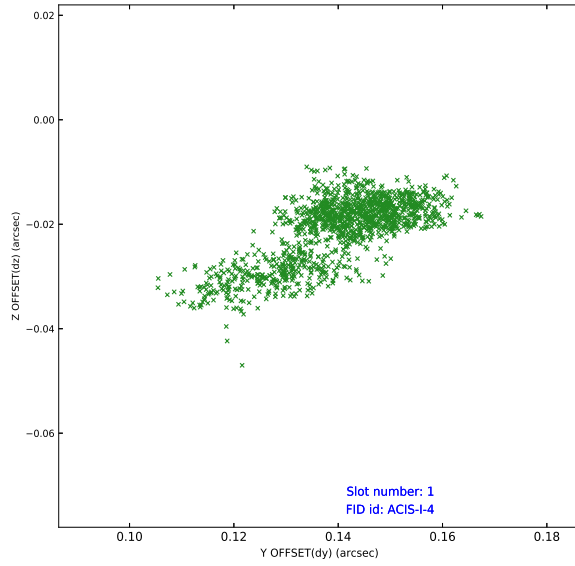


2.5 FID Slots

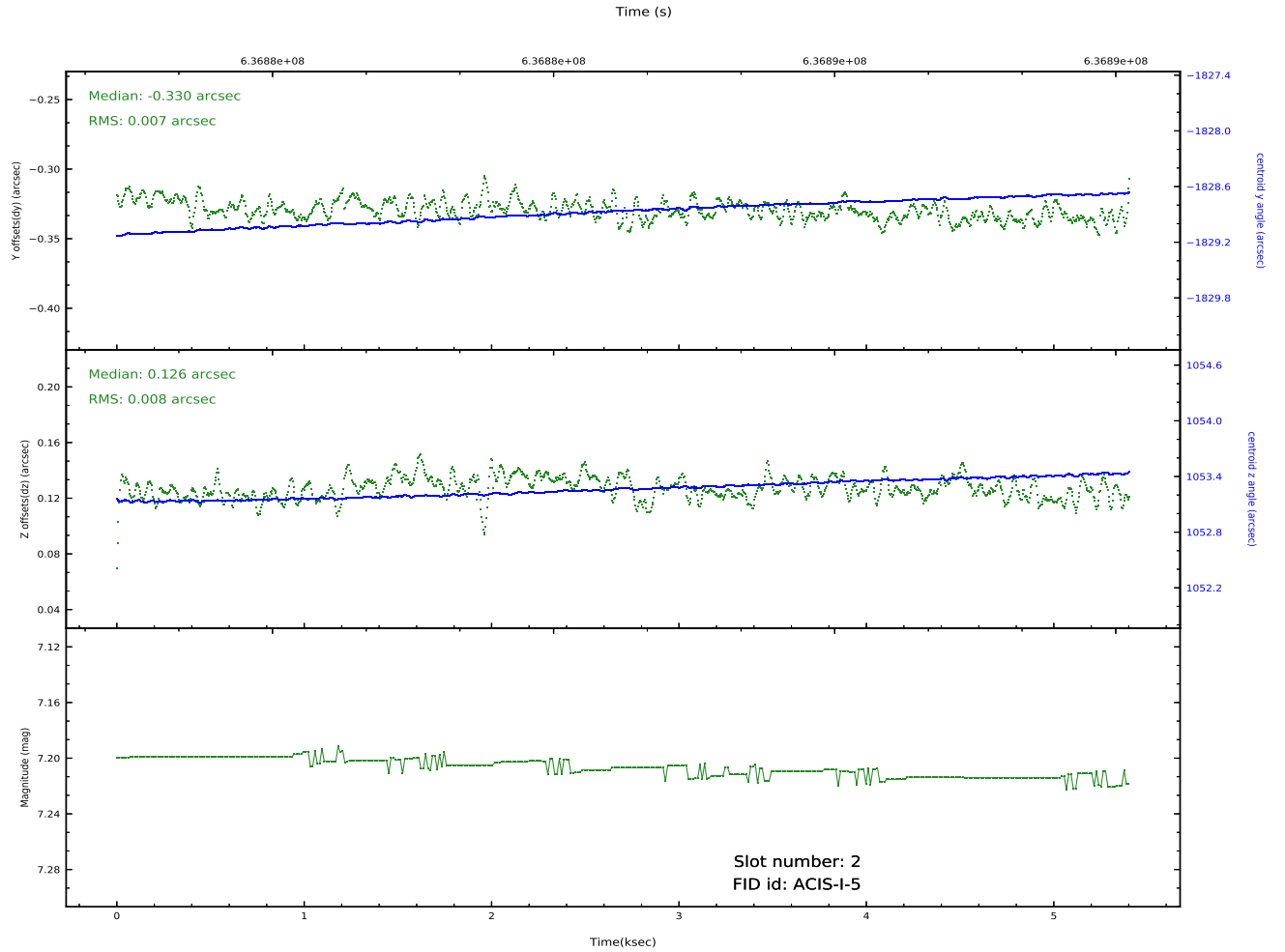
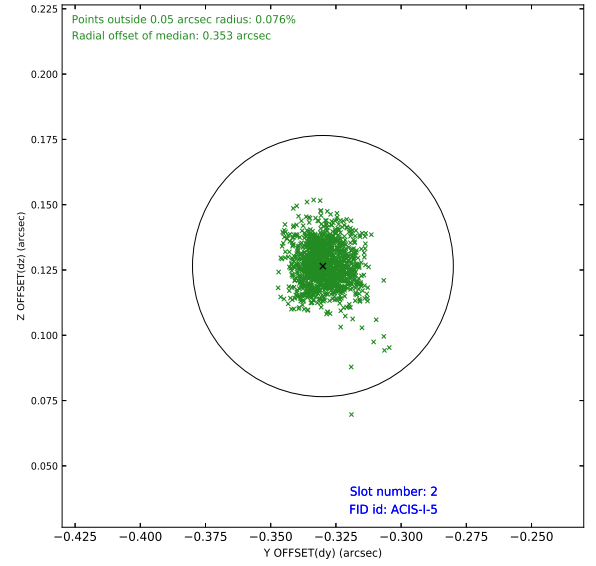
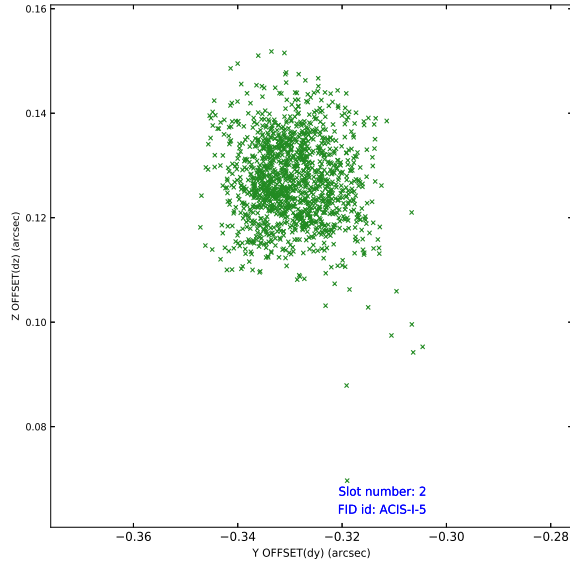
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	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	5.0648588312864

A.2 Comments