

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20895 - L2 Version 3
Chandra X-Ray Center

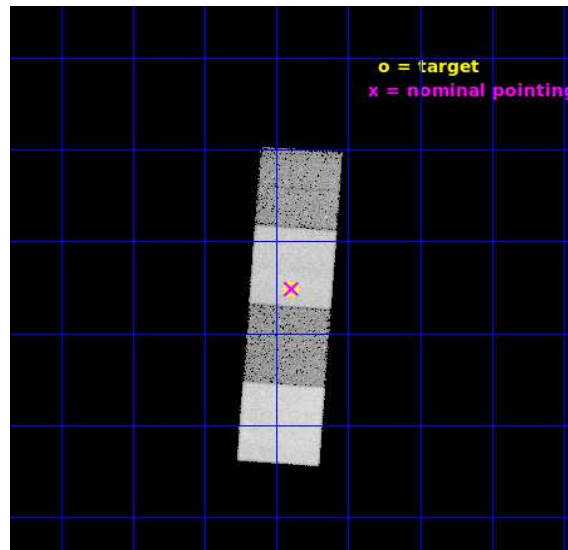
L2 Processing Date : Oct 24 2020

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.5	FID Slots	12
2.5.1	Slot 0	12
2.5.2	Slot 1	13
2.5.3	Slot 2	14
A	Summary	15
A.1	Status	15
A.2	Comments	15

1 Front

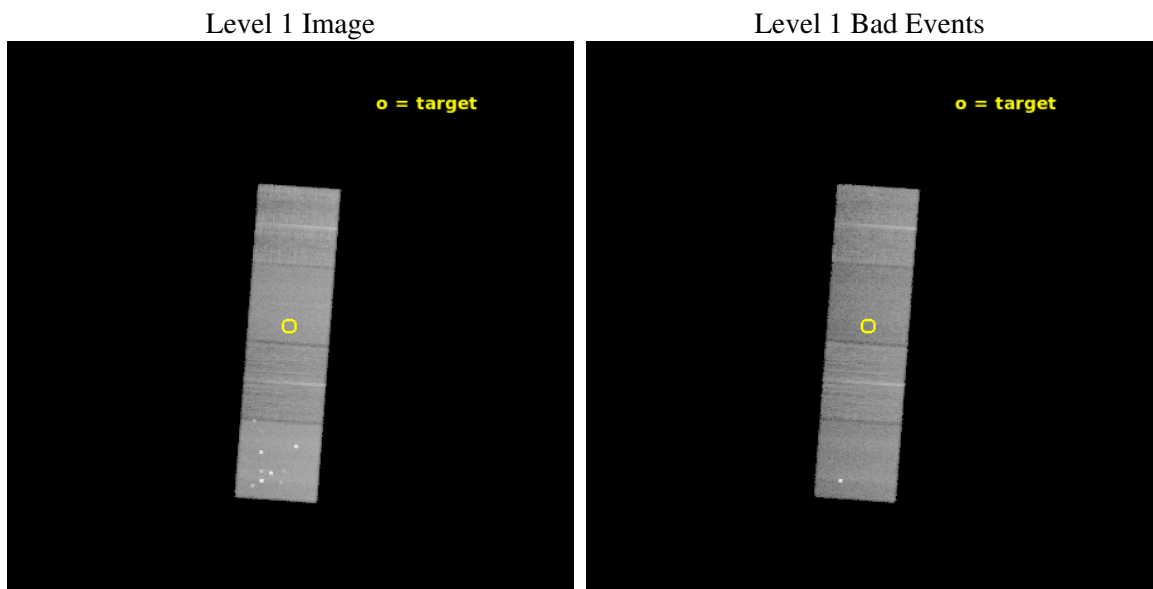
seq_num	703644	Sequence number
obs_id	20895	Observation id
title	Can Radio Emission From Luminous Obscured AGN Blow Kpc-scale Ionized Outflows?	Proposal title
observer	Andy Goulding	Principal investigator
object	SDSS J092023.84+003448.5	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	140.099583	Observer's specified target RA [deg]
dec_targ	0.580167	Observer's specified target Dec [deg]
ra_nom	140.0982233266	Nominal RA [deg]
dec_nom	0.58135249052171	Nominal Dec [deg]
roll_nom	274.14714723298	Nominal Roll [deg]
revision	3	Processing version of data
ontime	18057.500138998	Sum of GTIs [s]
livetime	17821.565605944	Livetime [s]
ontime5	18057.500138998	Sum of GTIs [s]
ontime6	18057.500138998	Sum of GTIs [s]
ontime7	18057.500138998	Sum of GTIs [s]
ontime8	18057.500138998	Sum of GTIs [s]
l2events	193793	Number of level 2 events



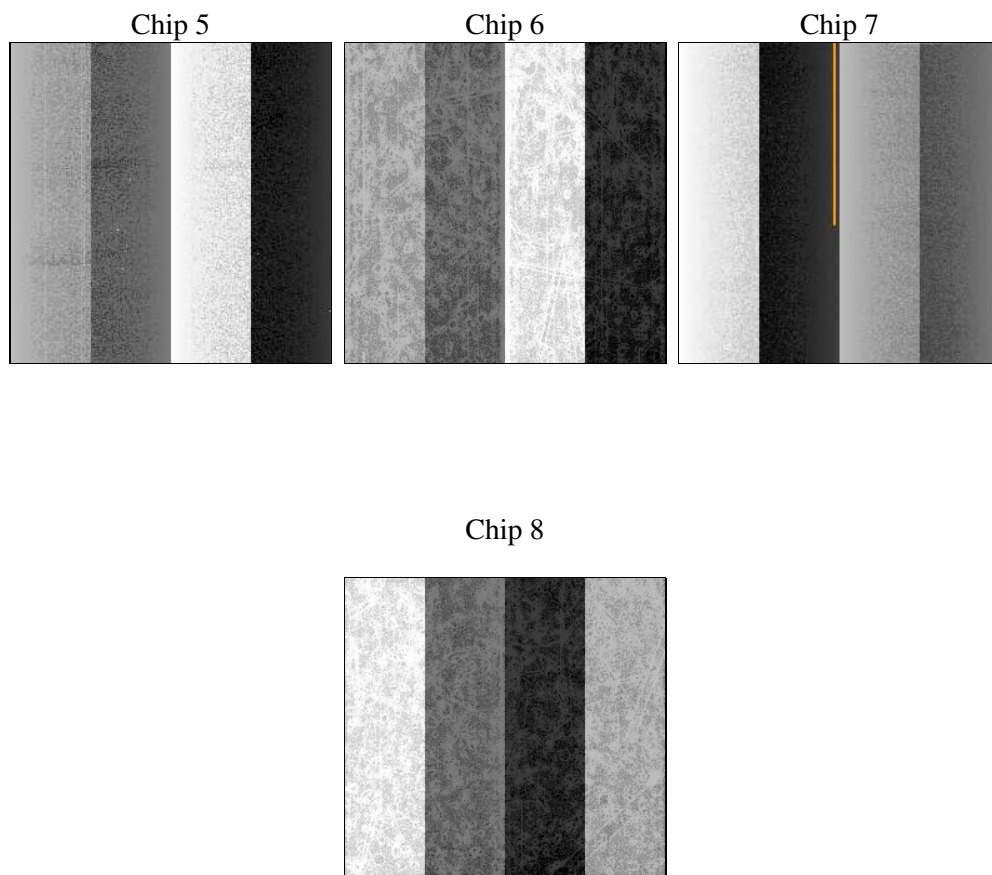
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	18000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	18057.500138998	Sum of GTIs [s]
caldsver	4.9.3	 	ontime5	18057.500138998	Sum of GTIs [s]
date	2020-10-25T01:44:39	Date and time of file creation	ontime6	18057.500138998	Sum of GTIs [s]
revision	3	Processing version of data	ontime7	18057.500138998	Sum of GTIs [s]
			ontime8	18057.500138998	Sum of GTIs [s]
			l1events	716320	Number of level 1 events

2.1.4 Events

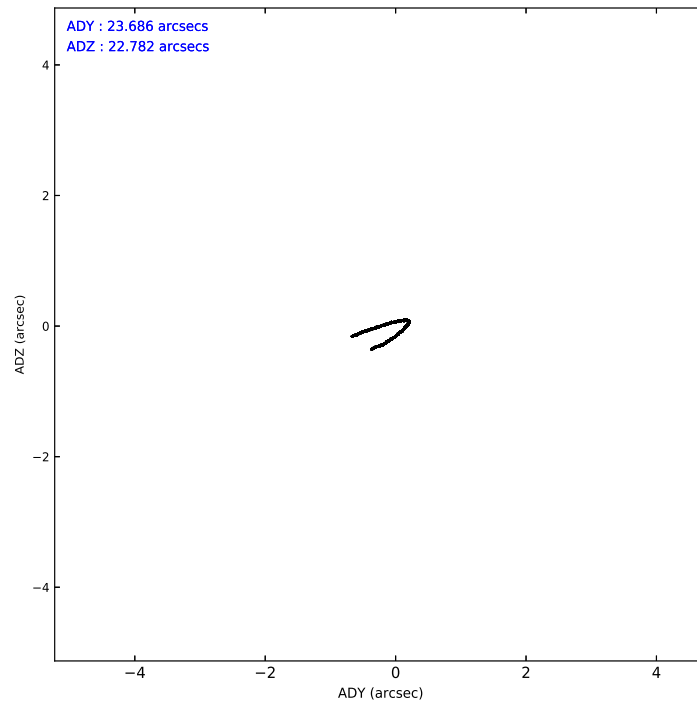
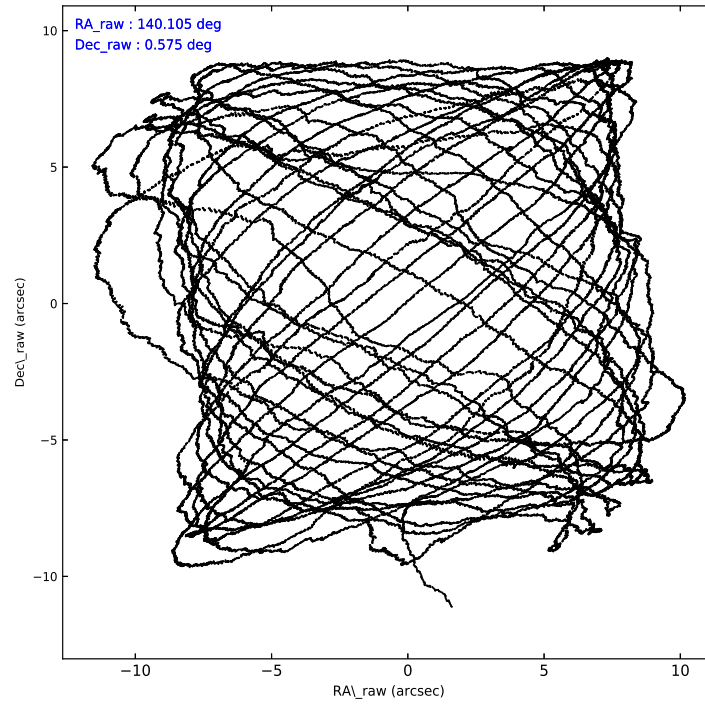
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	233896	139020	171068	172336
rejected events	115879	124425	97513	129157
rejected %	49%	89%	57%	74%

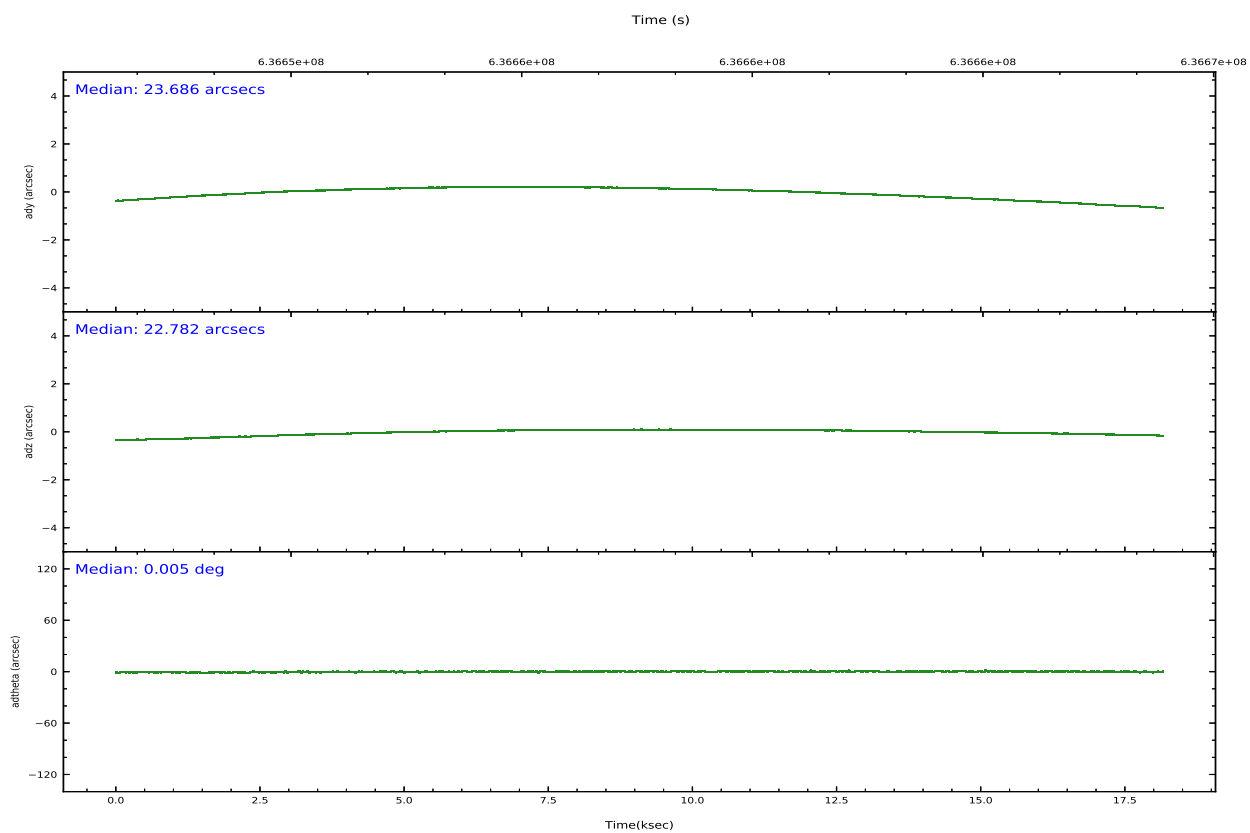
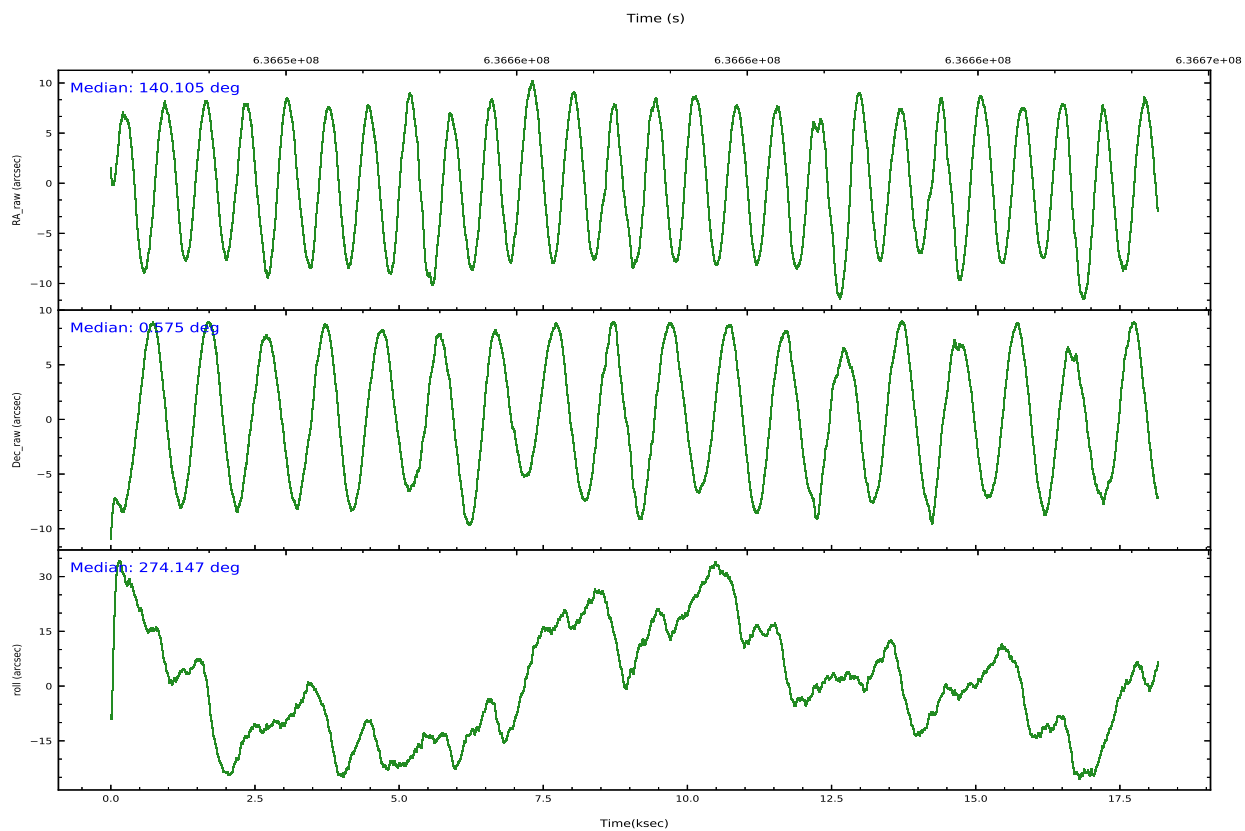
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	21798	4456	6086	11657
	9%	3%	3%	6%
grade 1 events	637	53	261	128
	0%	0%	0%	0%
grade 2 events	33002	3786	15168	10765
	14%	2%	8%	6%
grade 3 events	3164	1310	5884	4589
	1%	0%	3%	2%
grade 4 events	2917	1284	5840	4143
	1%	0%	3%	2%
grade 5 events	14107	5682	16830	9085
	6%	4%	9%	5%
grade 6 events	57191	3761	40598	12040
	24%	2%	23%	6%
grade 7 events	101080	118688	80401	119929
	43%	85%	46%	69%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-5678	ACIS-5678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	140.089461	140.09822333266	CCD I2 on	O1	N
[deg] Pointing Dec	0.597491	0.58135249052171	CCD I3 on	O2	N
[deg] Pointing Roll	274.000109	274.14714723298	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	636649126.184000	636647837.97565	CCD S5 on	N	N
Observation start date	2018-03-05T14:57:37	2018-03-05T14:37:17	Number of optional ACIS chips dropped	2	2
[s] Observation end time (MET)	636667126.184000	636668160.65185	On-chip summing requested	N	N
Observation end date	2018-03-05T19:57:37	2018-03-05T20:16:00	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



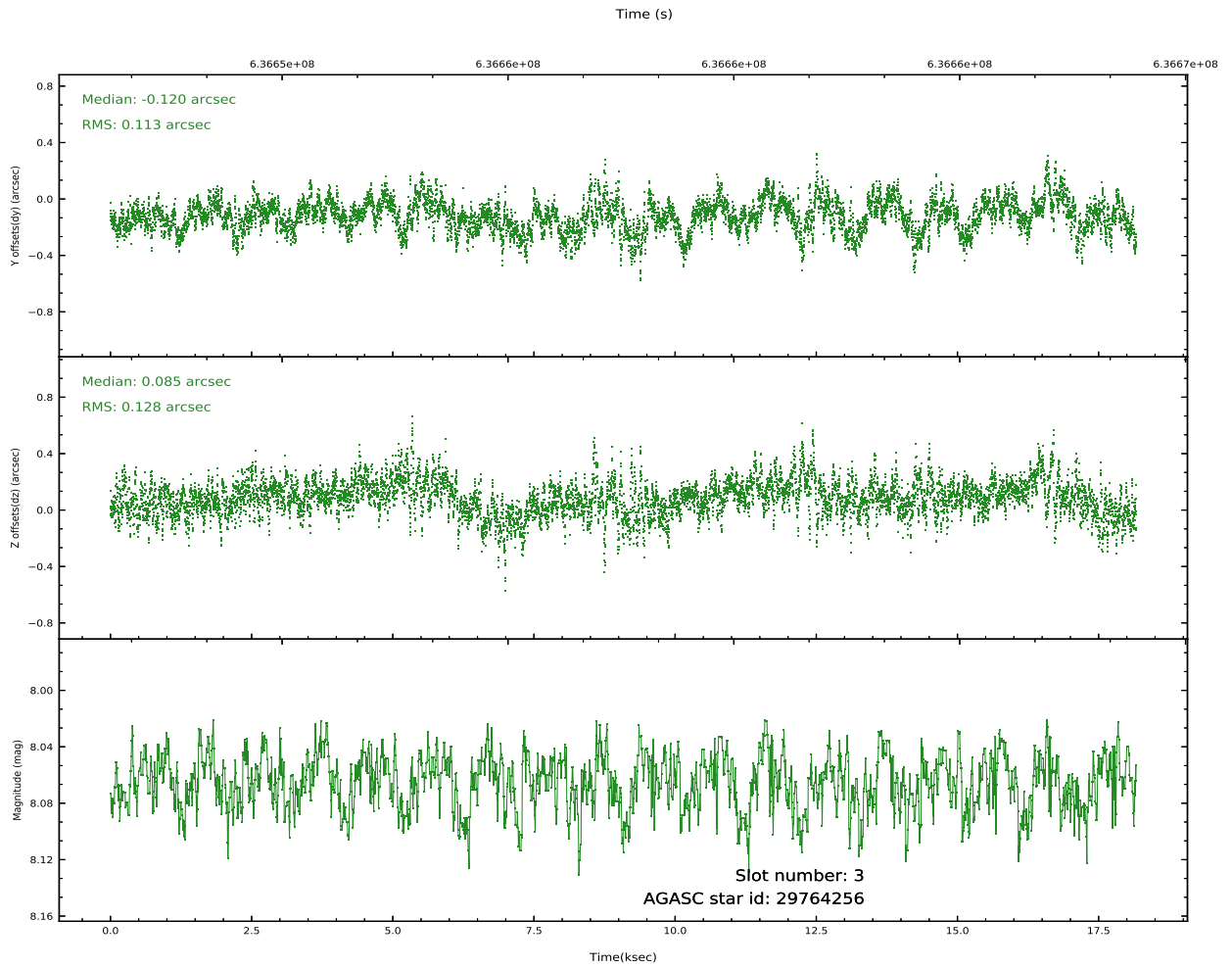
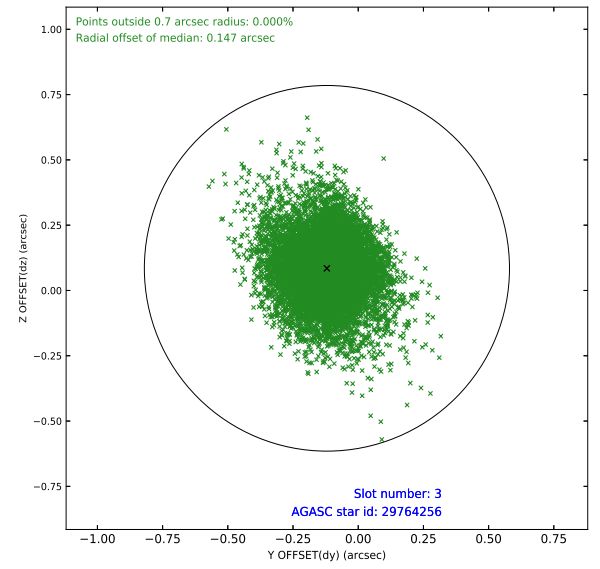
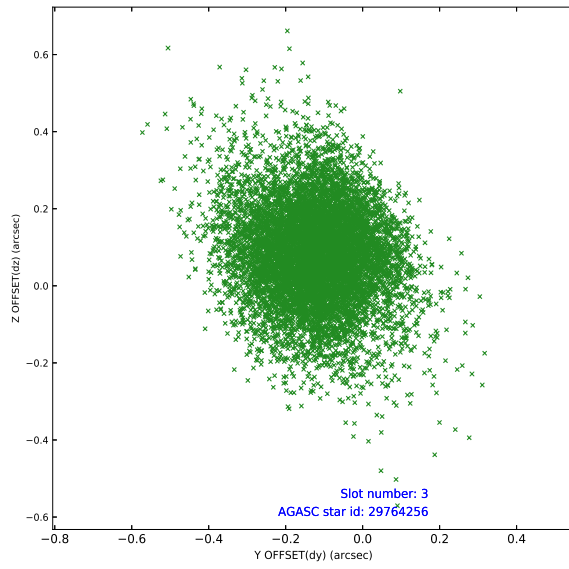


Slot Statistics

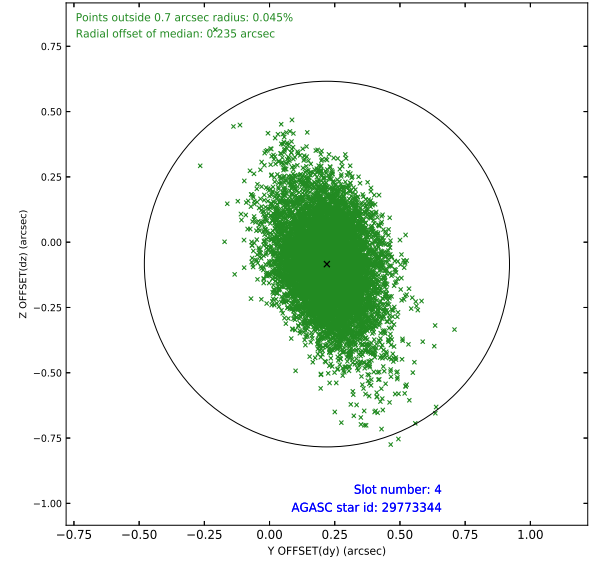
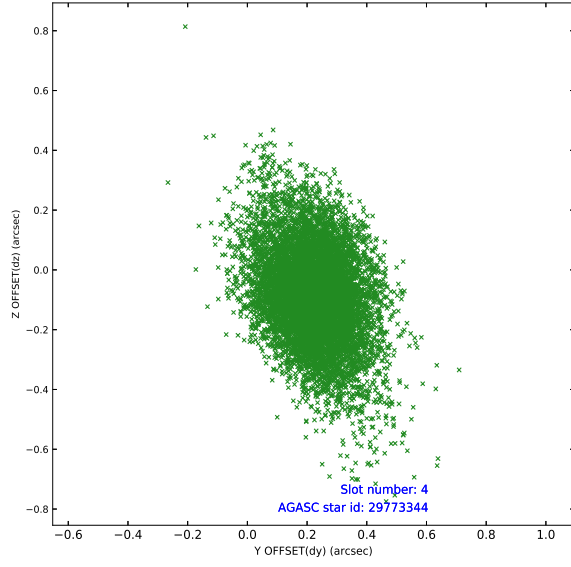
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.23	4430	1.000	0.335	-0.074	0.014	0.024	0.000000	0.000000	919.22	-1740
1	FID		ACIS-S-4	7.24	4431	1.000	0.012	-0.105	0.011	0.019	0.000000	0.000000	2136.76	163
2	FID		ACIS-S-5	7.25	4431	1.000	-0.374	0.191	0.012	0.020	0.000000	0.000000	-1829.74	158
3	GUIDE	used	29764256	8.06	8857	1.000	-0.120	0.085	0.176	0.301	139.867975	0.897058	-1128.93	-722
4	GUIDE	used	29773344	8.47	8851	1.000	0.220	-0.084	0.188	0.340	139.532326	0.023964	1920.90	-2146
5	GUIDE	used	29773528	9.69	8808	1.000	-0.101	-0.002	0.225	0.400	139.728876	0.427418	520.76	-1338
6	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0
7	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0

2.4 Star Slots

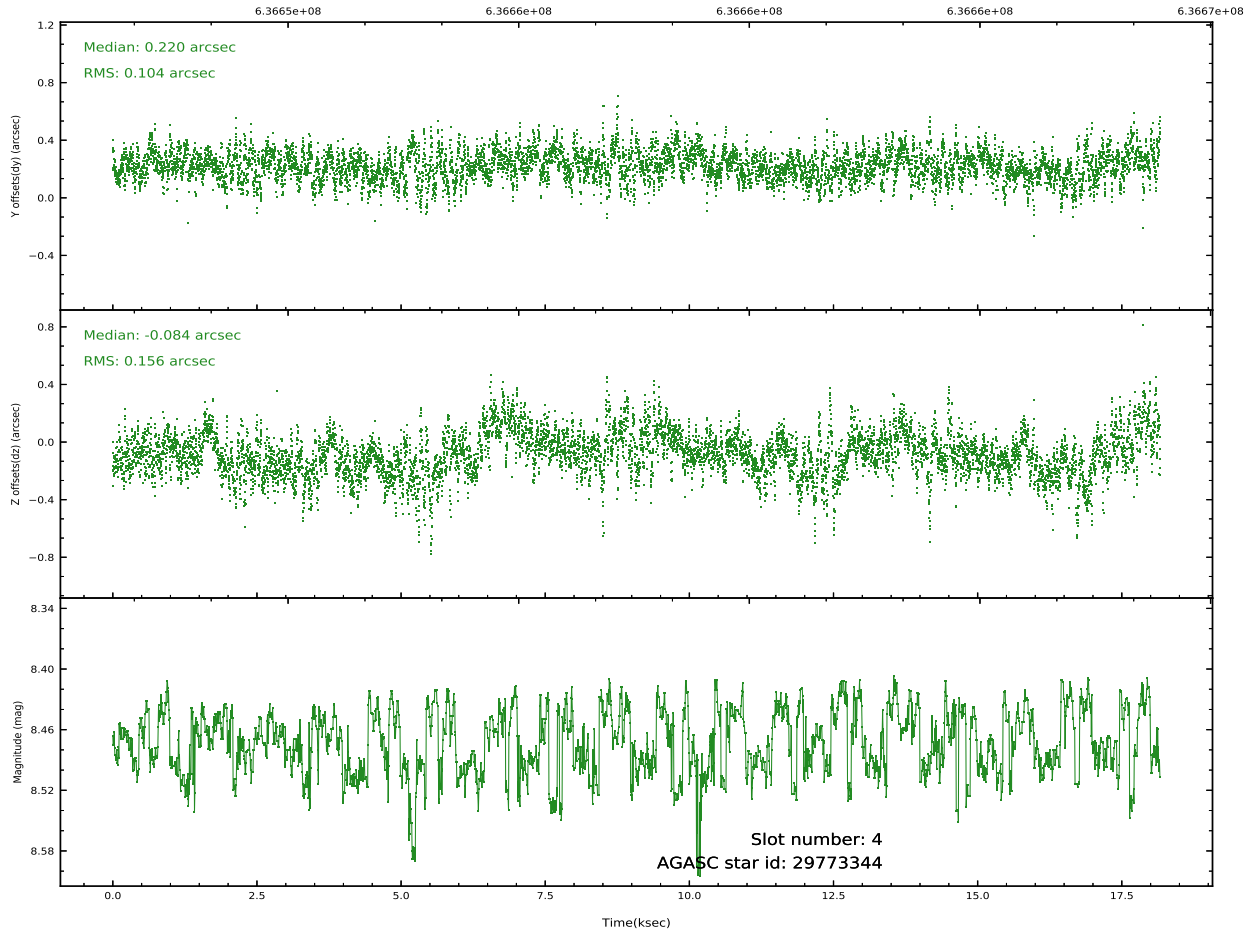
2.4.1 Slot 3



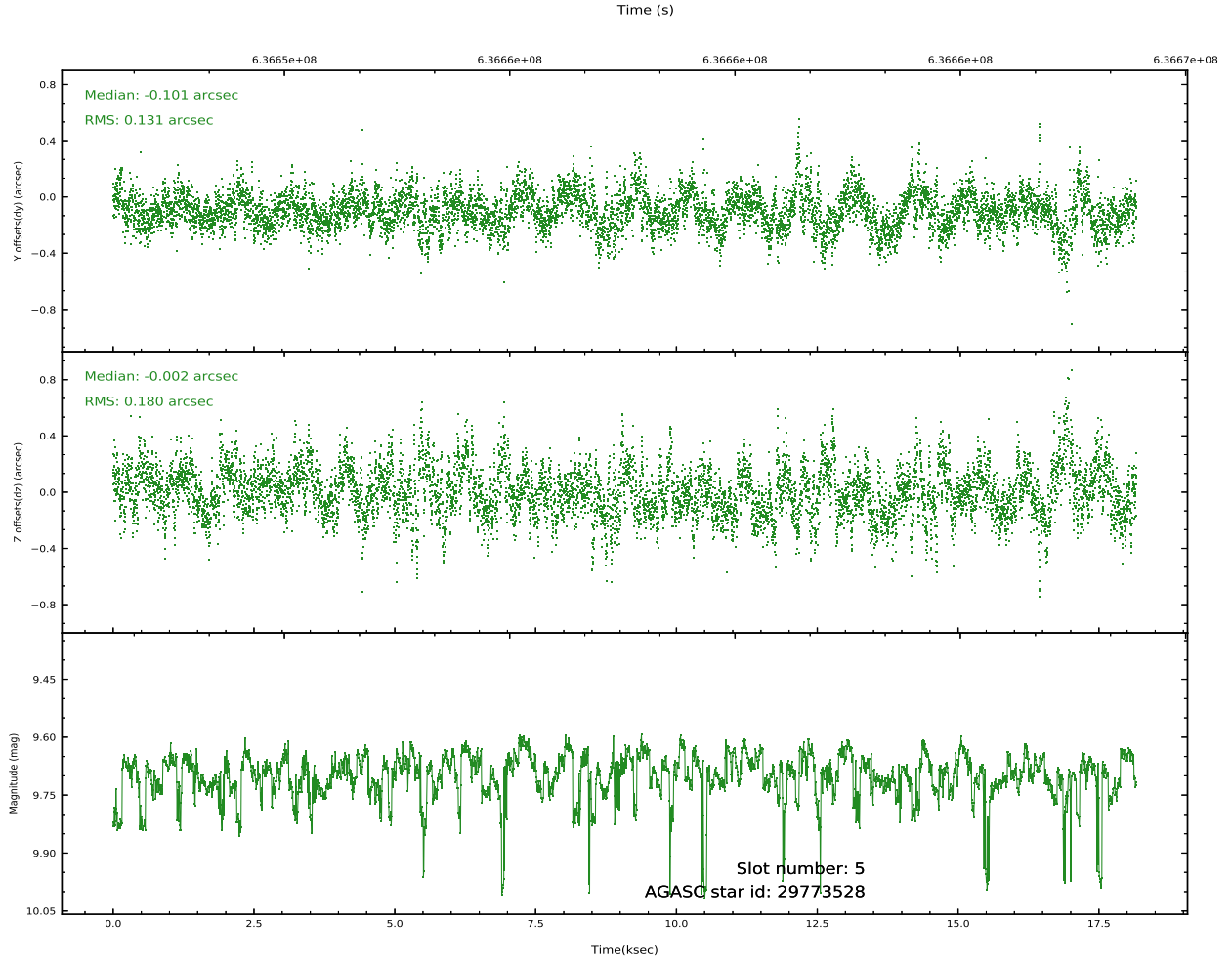
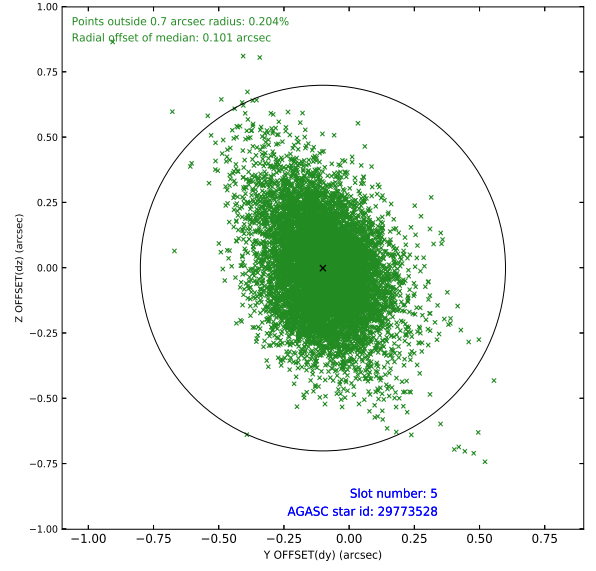
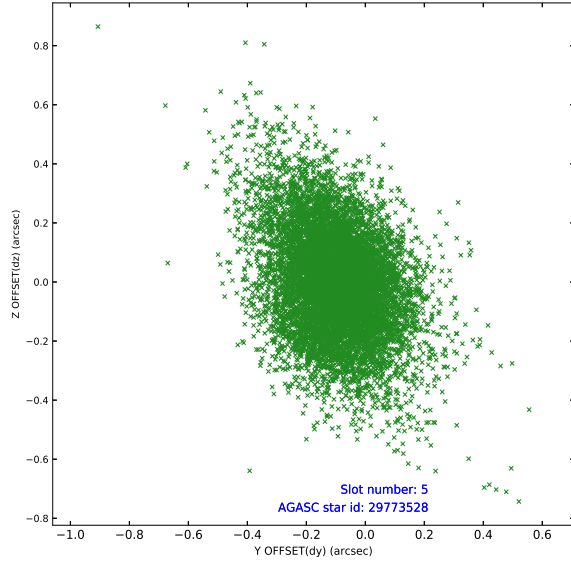
2.4.2 Slot 4



Time (s)

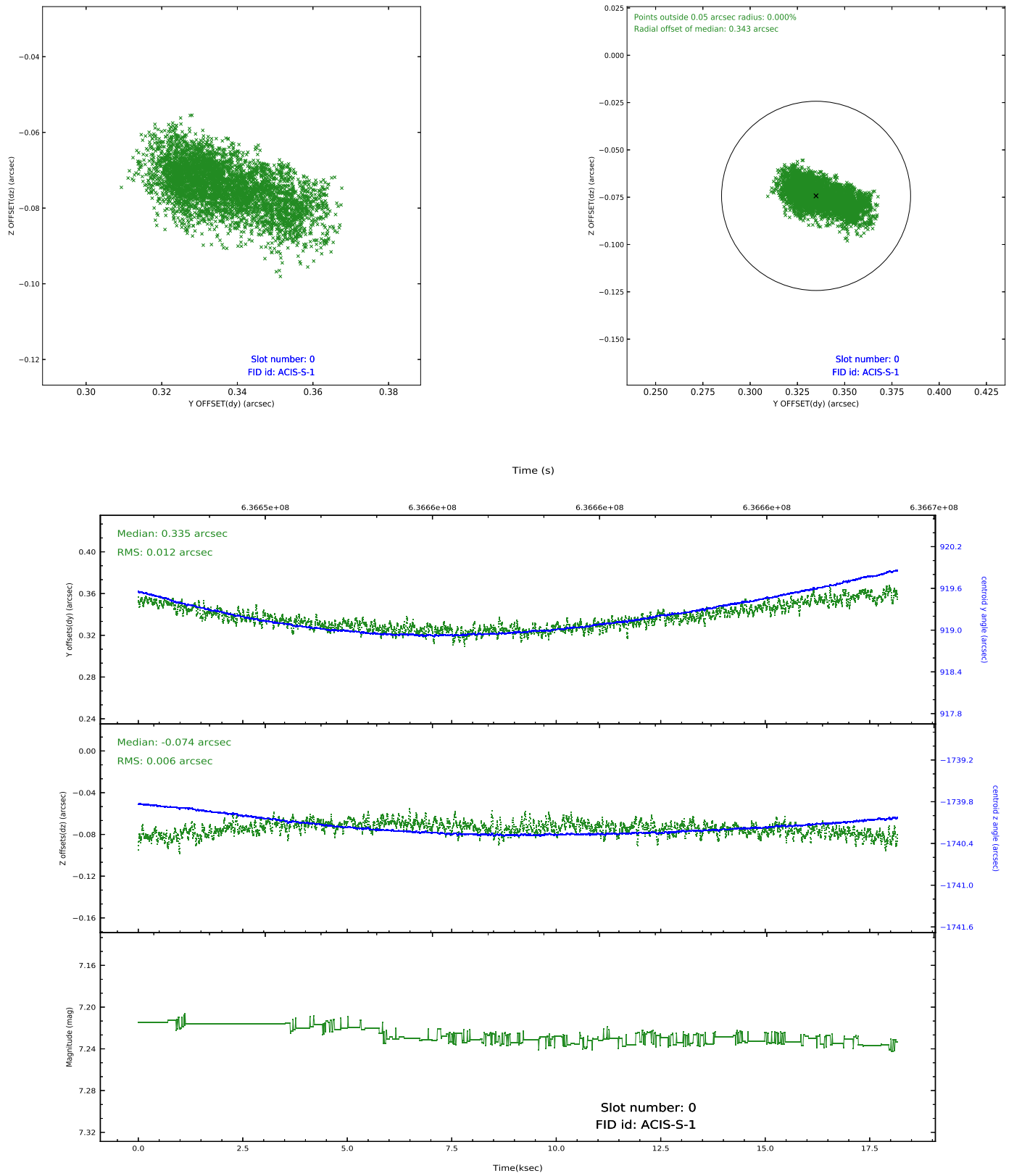


2.4.3 Slot 5

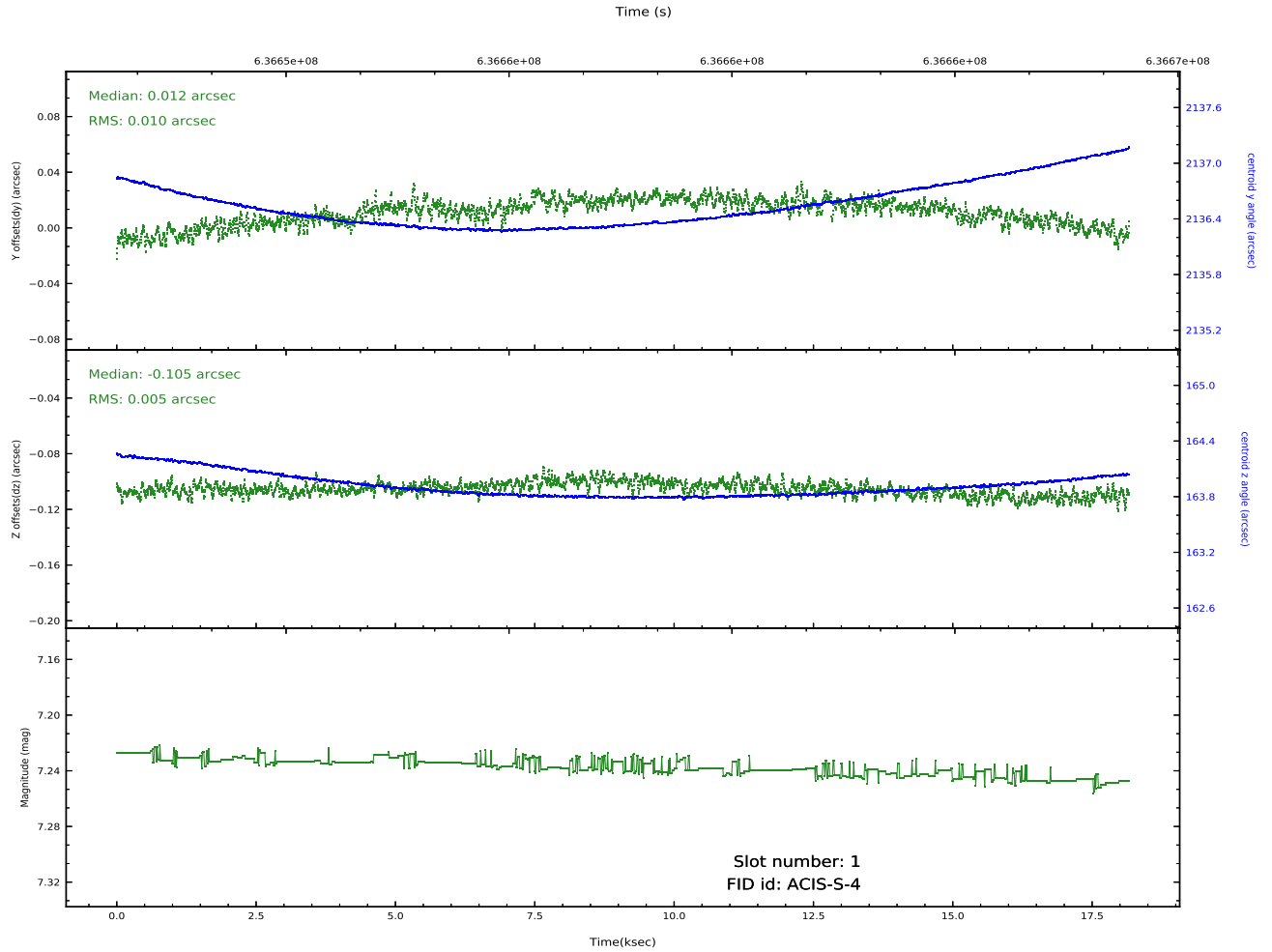
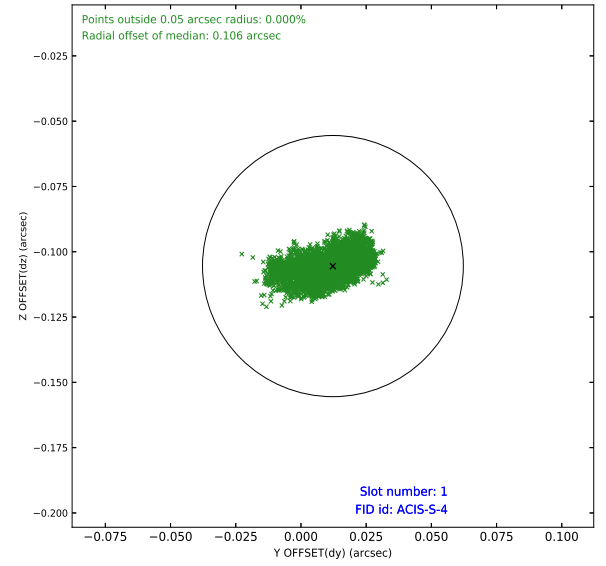
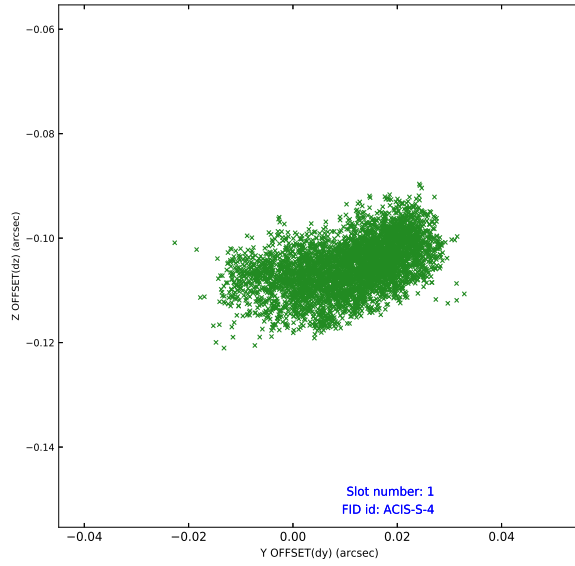


2.5 FID Slots

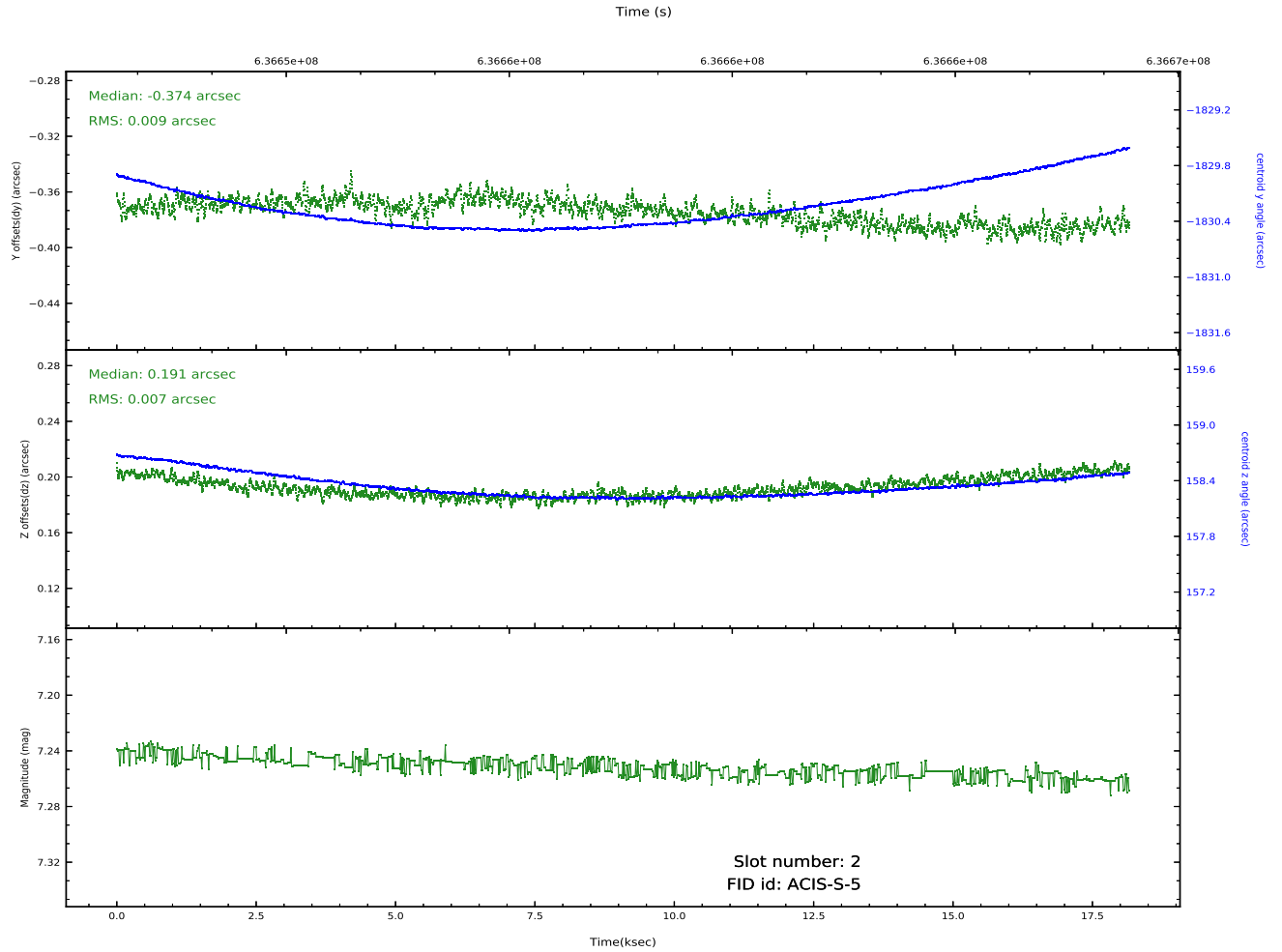
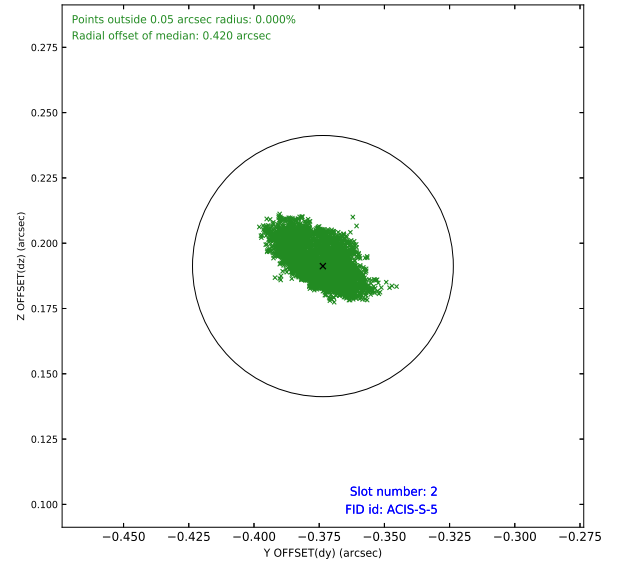
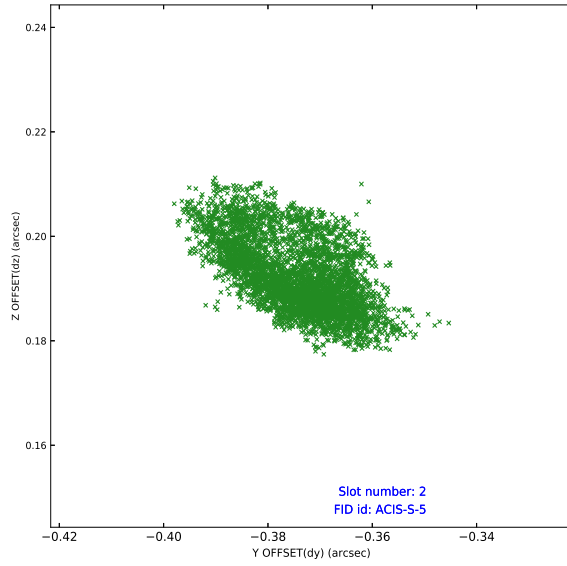
2.5.1 Slot 0



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	18.057500138998

A.2 Comments

Joint proposal with NRAO.

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Two optional chips were dropped.

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The guide stars in slots 6 and 7 were removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of these slots from the solution.