

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6352 - L2 Version 4
Chandra X-Ray Center

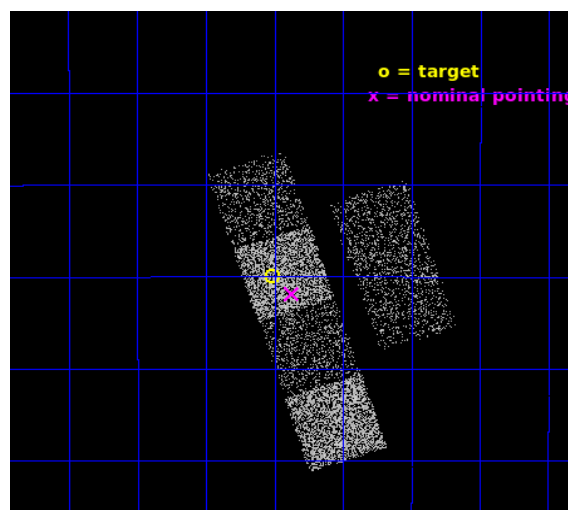
L2 Processing Date : Oct 9 2020

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
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

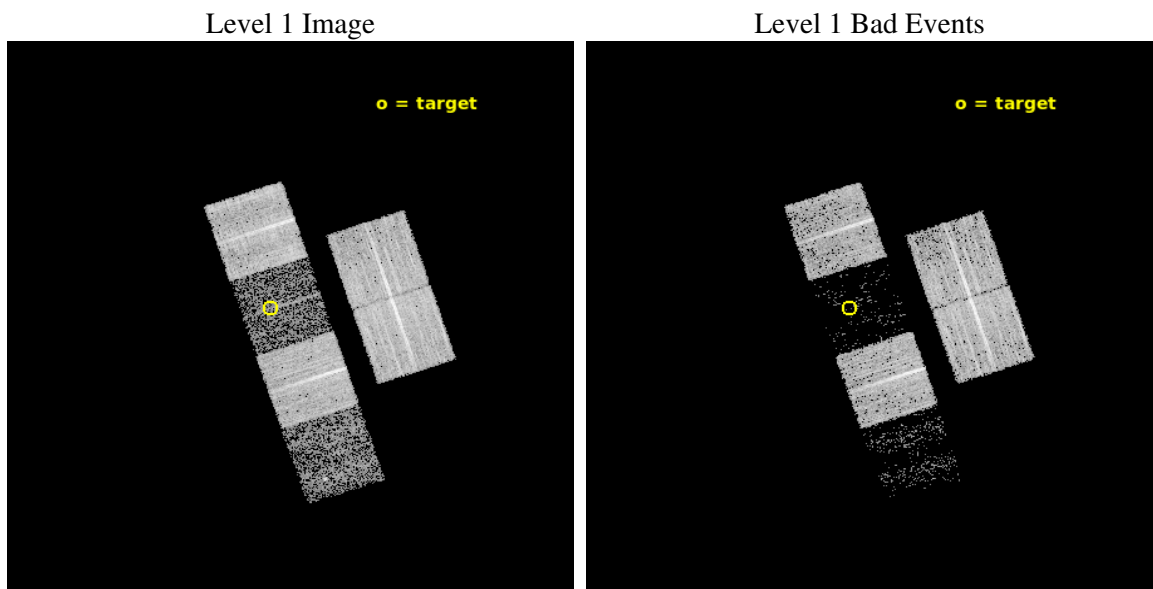
seq_num	100058	Sequence number
obs_id	6352	Observation id
title	Comet 9P/Tempel 1 During the Deep Impact Encounter	Proposal title
observer	Carey Lisse	Principal investigator
object	Comet 9P/Tempel 1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	215.128008	Observer's specified target RA [deg]
dec_targ	-17.332119	Observer's specified target Dec [deg]
ra_nom	215.09309481353	Nominal RA [deg]
dec_nom	-17.364086763458	Nominal Dec [deg]
roll_nom	251.54576048872	Nominal Roll [deg]
revision	4	Processing version of data
ontime	8175.999969542	Sum of GTIs [s]
livetime	8072.4705349315	Livetime [s]
ontime2	8175.999969542	Sum of GTIs [s]
ontime3	8175.999969542	Sum of GTIs [s]
ontime5	8175.999969542	Sum of GTIs [s]
ontime6	8175.999969542	Sum of GTIs [s]
ontime7	8175.999969542	Sum of GTIs [s]
ontime8	8175.999969542	Sum of GTIs [s]
l2events	11482	Number of level 2 events



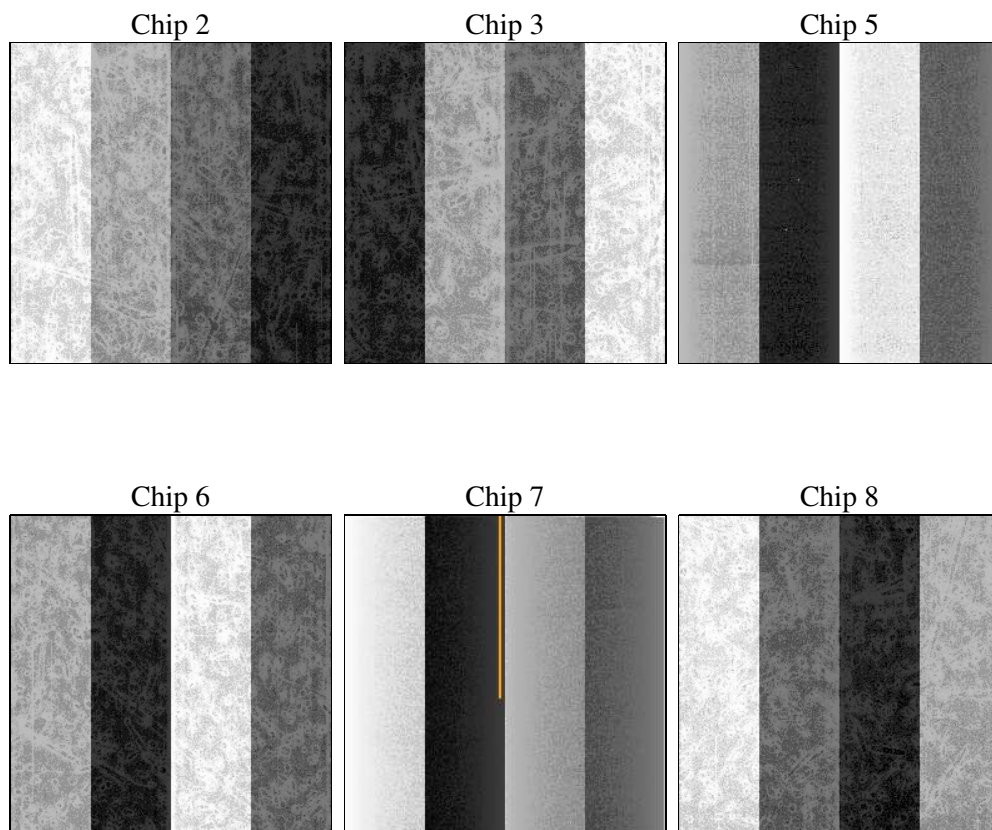
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	8175.999969542	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	8175.999969542	Sum of GTIs [s]
date	2020-10-09T14:03:07	Date and time of file creation	ontime3	8175.999969542	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	8175.999969542	Sum of GTIs [s]
			ontime6	8175.999969542	Sum of GTIs [s]
			ontime7	8175.999969542	Sum of GTIs [s]
			ontime8	8175.999969542	Sum of GTIs [s]
			l1events	169705	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	43913	37083	6419	36588	5346	40356
rejected events	42230	35783	2141	35046	1197	30559
rejected %	96%	96%	33%	95%	22%	75%

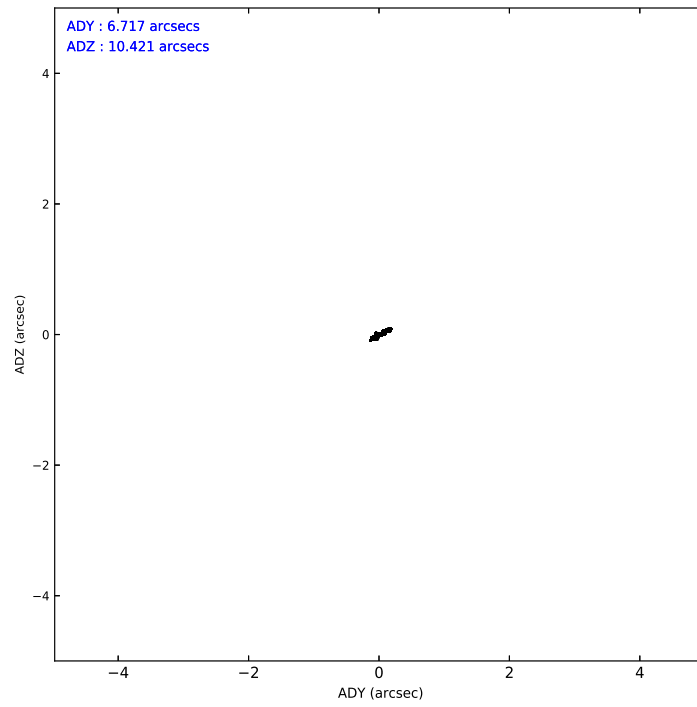
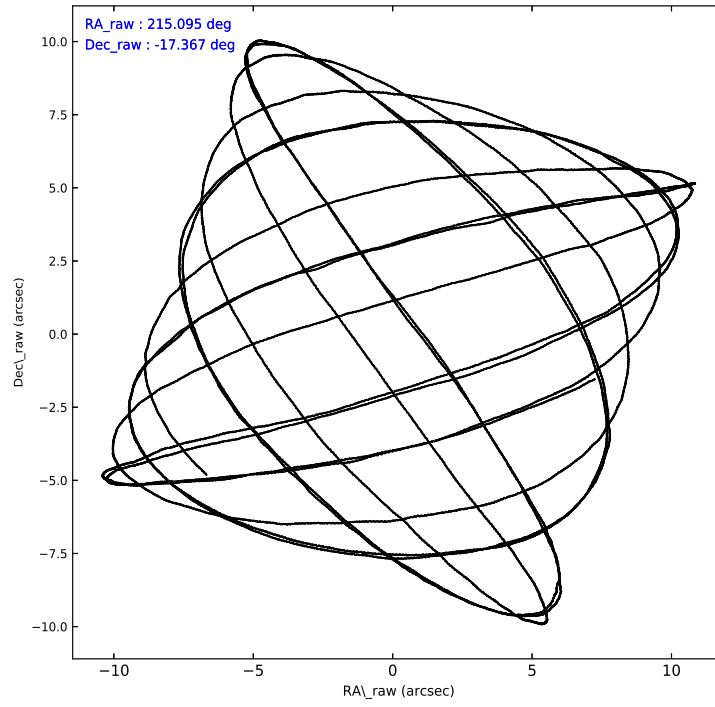
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	717	632	1213	768	1249	2702
	1%	1%	18%	2%	23%	6%
grade 1 events	8	8	40	8	22	20
	0%	0%	0%	0%	0%	0%
grade 2 events	411	156	1574	297	1340	2263
	0%	0%	24%	0%	25%	5%
grade 3 events	195	225	561	216	593	1154
	0%	0%	8%	0%	11%	2%
grade 4 events	254	186	559	210	583	956
	0%	0%	8%	0%	10%	2%
grade 5 events	44	34	355	24	134	207
	0%	0%	5%	0%	2%	0%
grade 6 events	146	126	478	92	507	2955
	0%	0%	7%	0%	9%	7%
grade 7 events	42138	35716	1639	34973	918	30099
	95%	96%	25%	95%	17%	74%

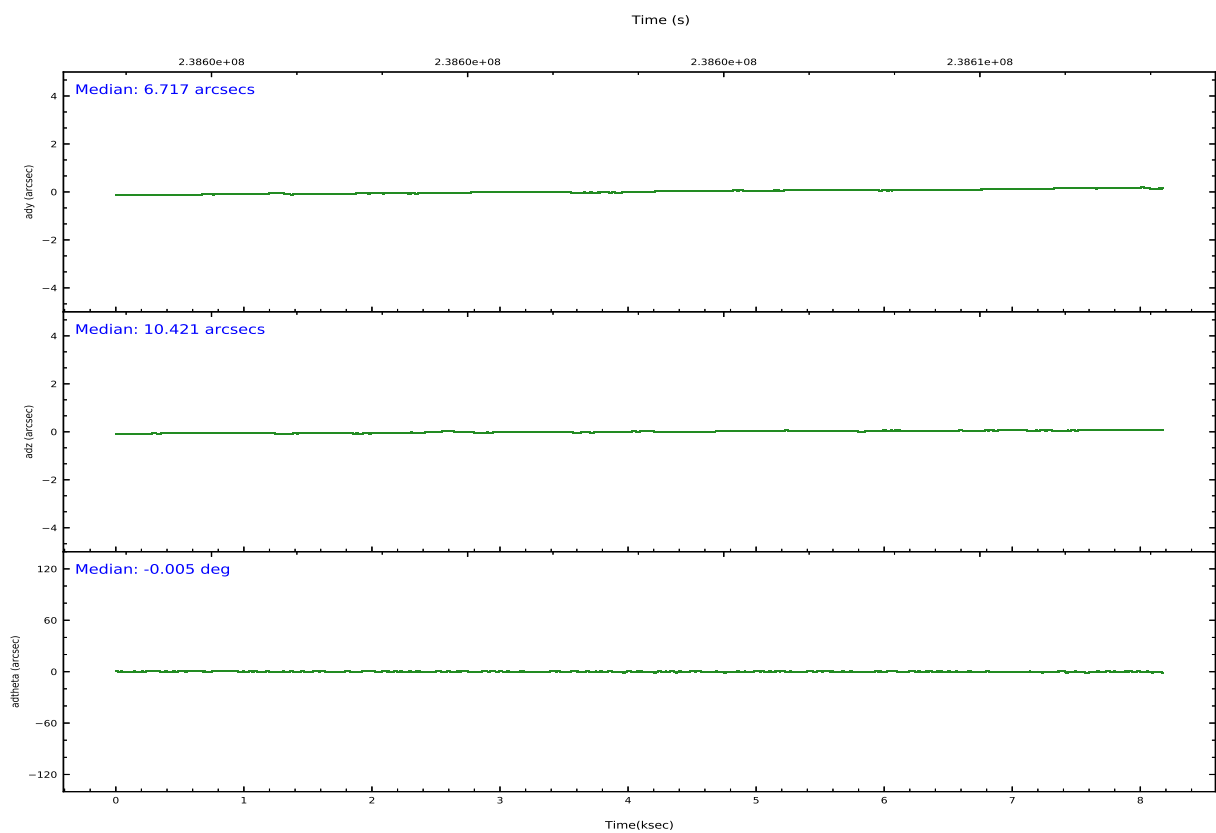
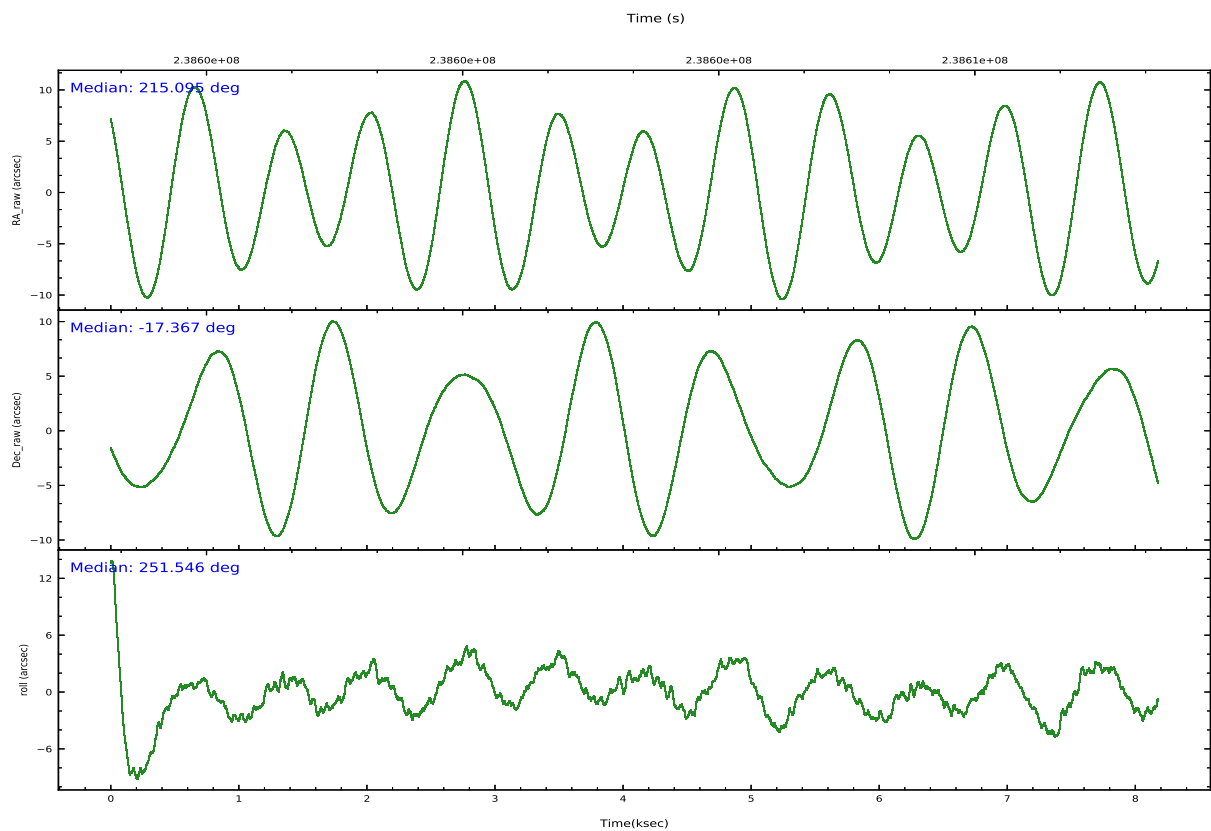
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-235678	ACIS-235678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	215.089396	215.09309481353
[deg] Pointing Dec	-17.340296	-17.364086763458
[deg] Pointing Roll	251.387040	251.54576048872
[s] Window start time (MET)	238572064.184000	238572064.184000
[s] Window stop time (MET)	238615264.184000	238615264.184000
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1400660498719
[mm] SIM translation stage offset	0	0.00754346686406393
[s] Observation start time (MET)	238599432.184000	238599055.79012
Observation start date	2005-07-24T13:36:08	2005-07-24T13:30:55
[s] Observation end time (MET)	238607432.184000	238608062.46553
Observation end date	2005-07-24T15:49:28	2005-07-24T16:01:02
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar version number	8	8
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.2

2.3 Aspect



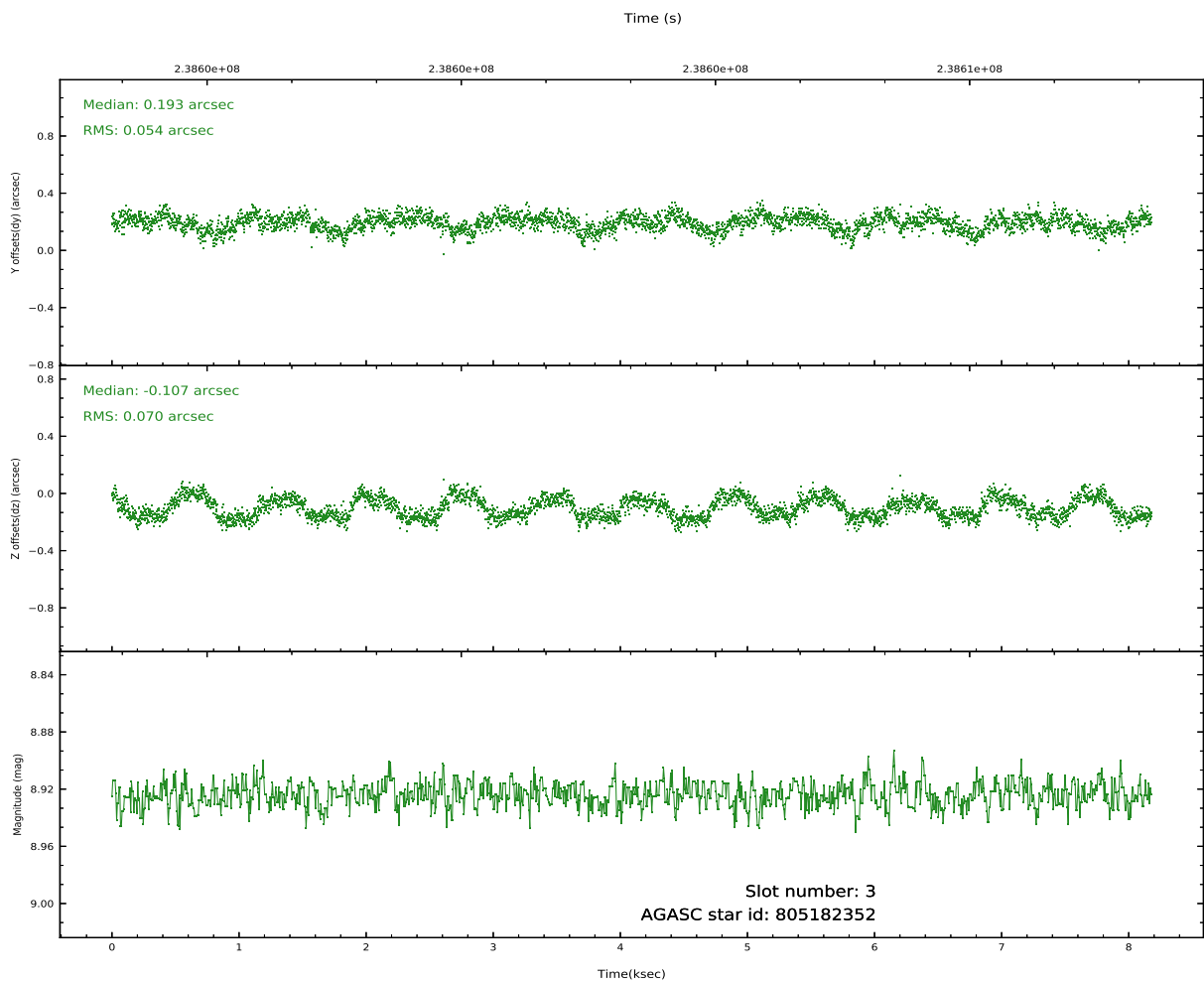
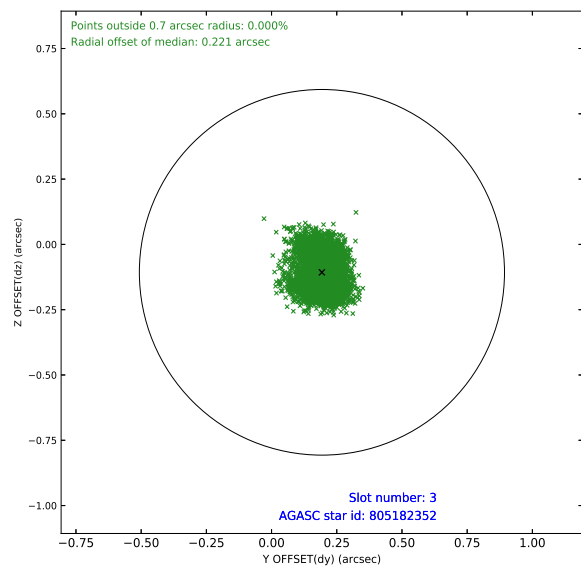
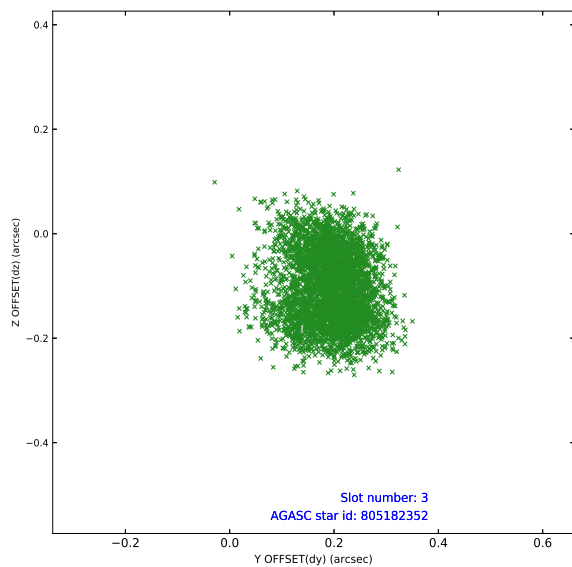


Slot Statistics

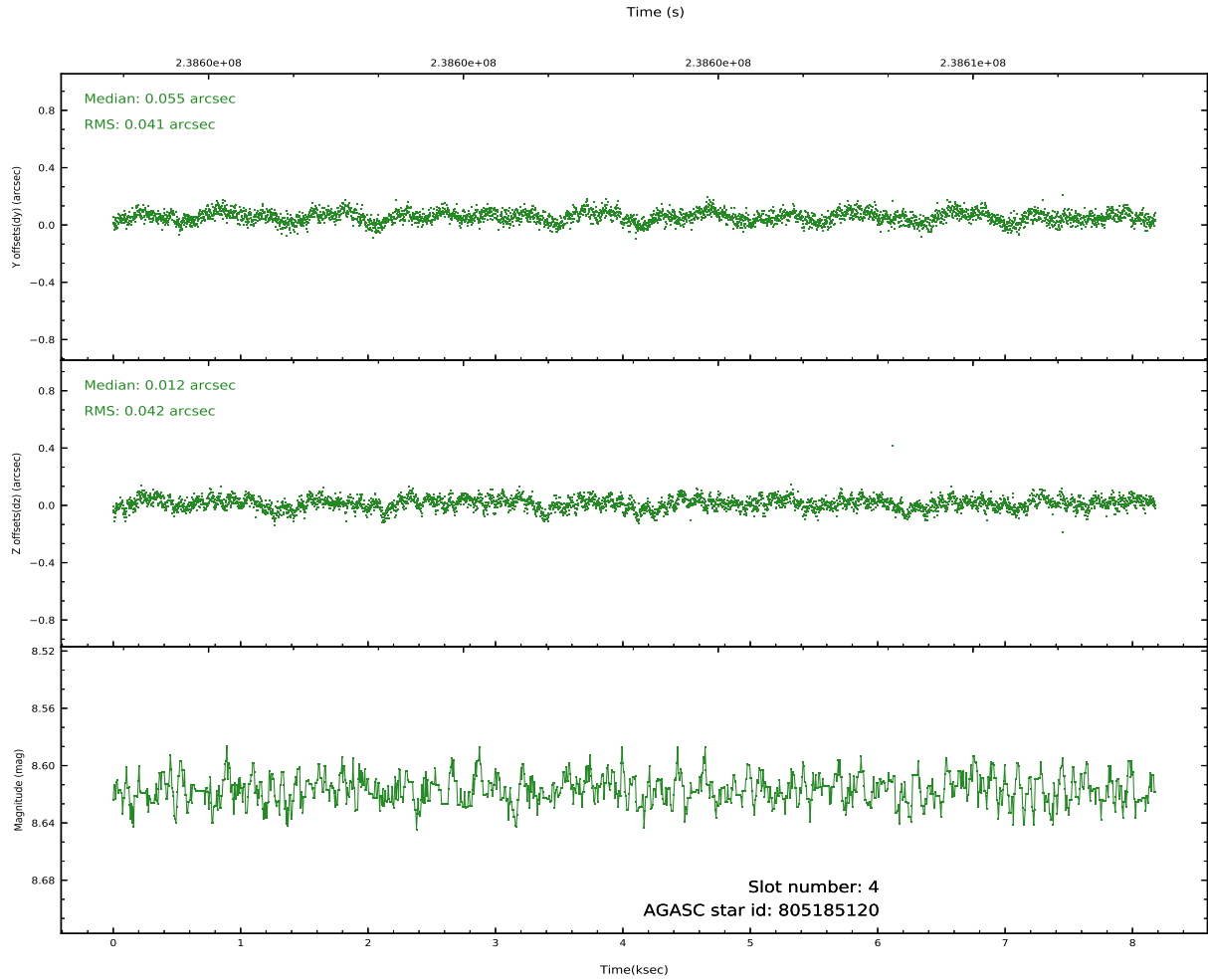
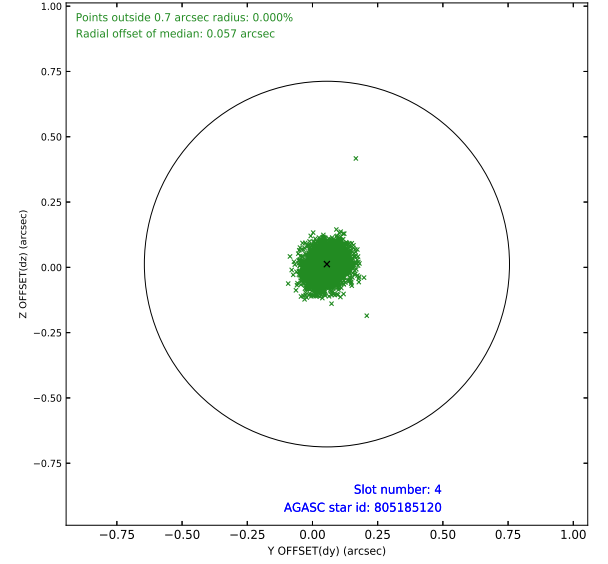
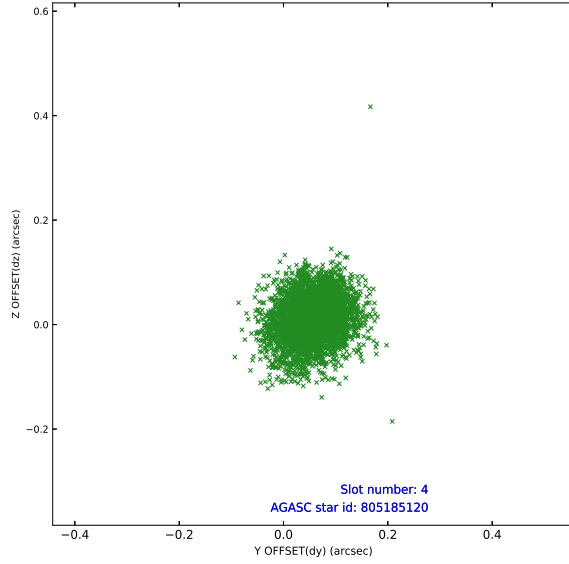
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.18	1995	1.000	0.009	-0.059	0.008	0.014	0.000000	0.000000	936.57	-1727
1	FID		ACIS-S-2	7.10	1995	1.000	-0.134	-0.048	0.007	0.014	0.000000	0.000000	-759.10	-1732
2	FID		ACIS-S-4	7.20	1995	1.000	0.099	0.113	0.006	0.010	0.000000	0.000000	2153.59	176
3	GUIDE	used	805182352	8.92	3987	1.000	0.193	-0.107	0.095	0.145	214.624580	-17.686015	1690.64	-1112
4	GUIDE	used	805185120	8.62	3989	1.000	0.055	0.012	0.063	0.103	215.253528	-17.793163	1366.36	1053
5	GUIDE	used	805187072	8.72	3989	1.000	-0.153	0.004	0.054	0.086	215.513645	-17.149952	-1113.40	1165
6	GUIDE	used	805188160	8.97	3991	1.000	-0.147	-0.171	0.076	0.120	215.356854	-16.987214	-1498.15	467
7	GUIDE	used	804653008	9.17	3989	1.000	0.055	0.260	0.074	0.120	214.804962	-16.573506	-2302.09	-1810

2.4 Star Slots

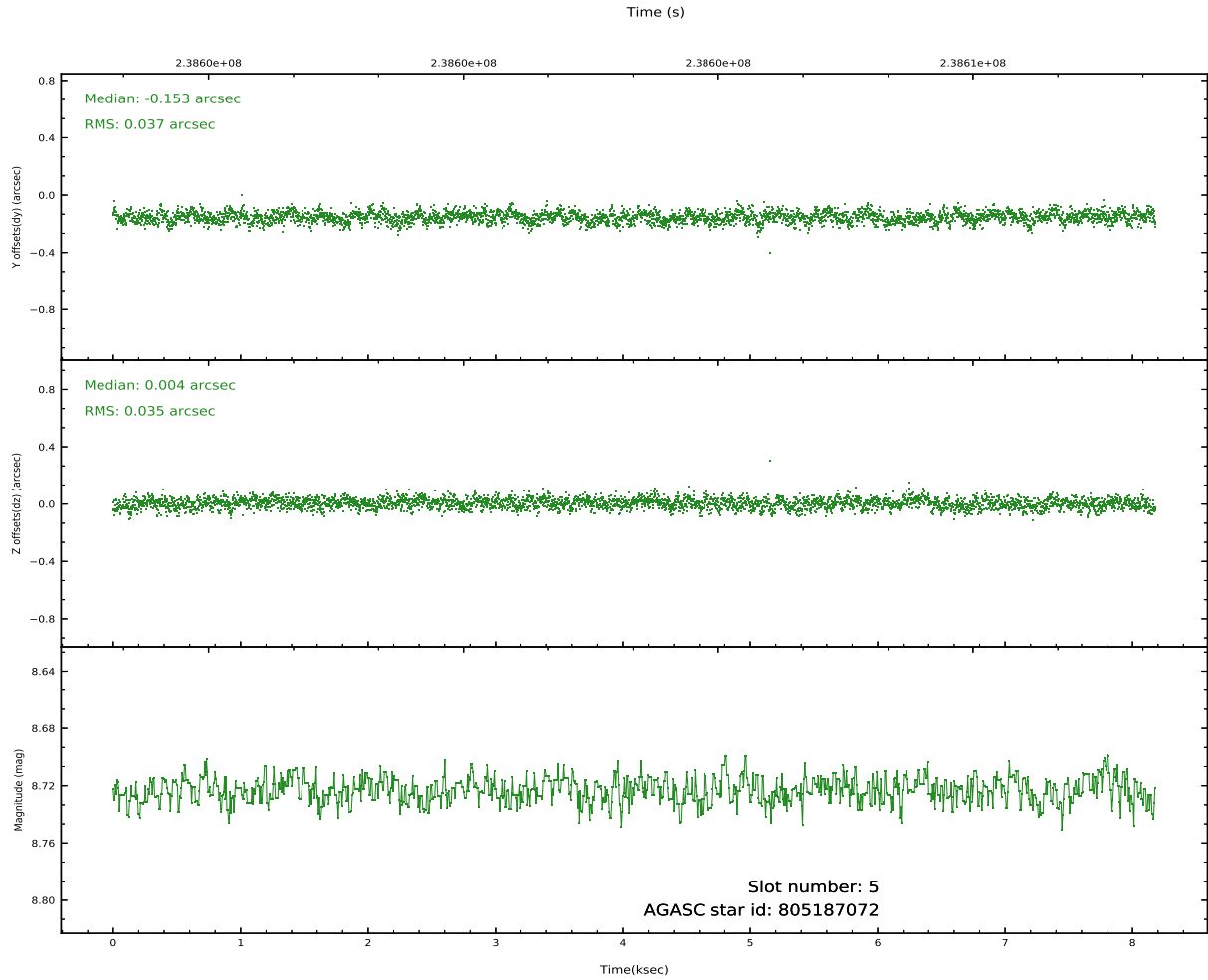
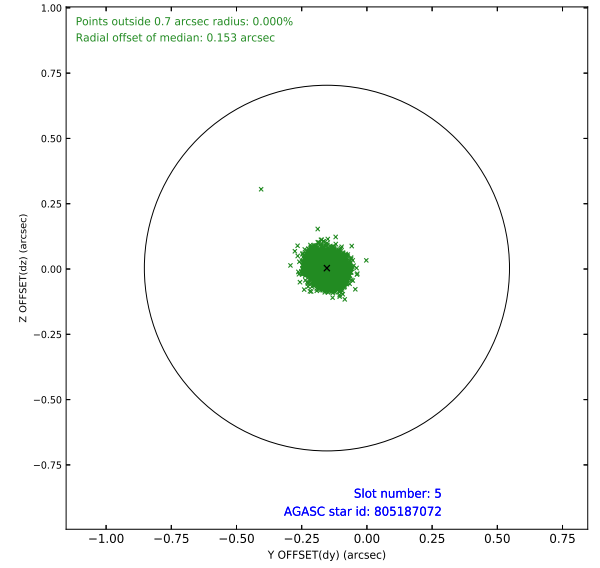
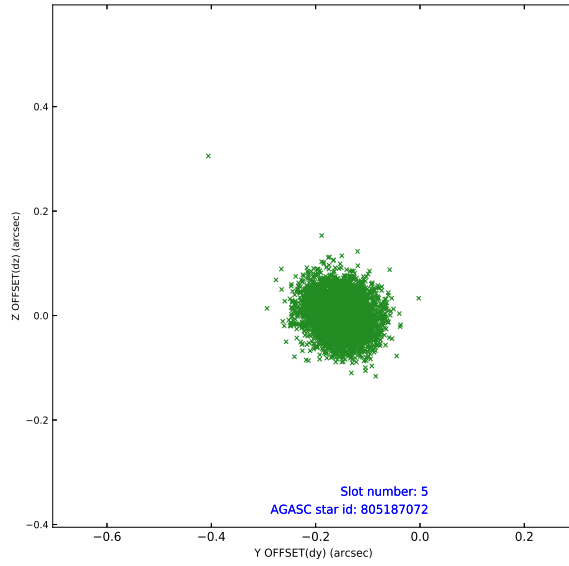
2.4.1 Slot 3



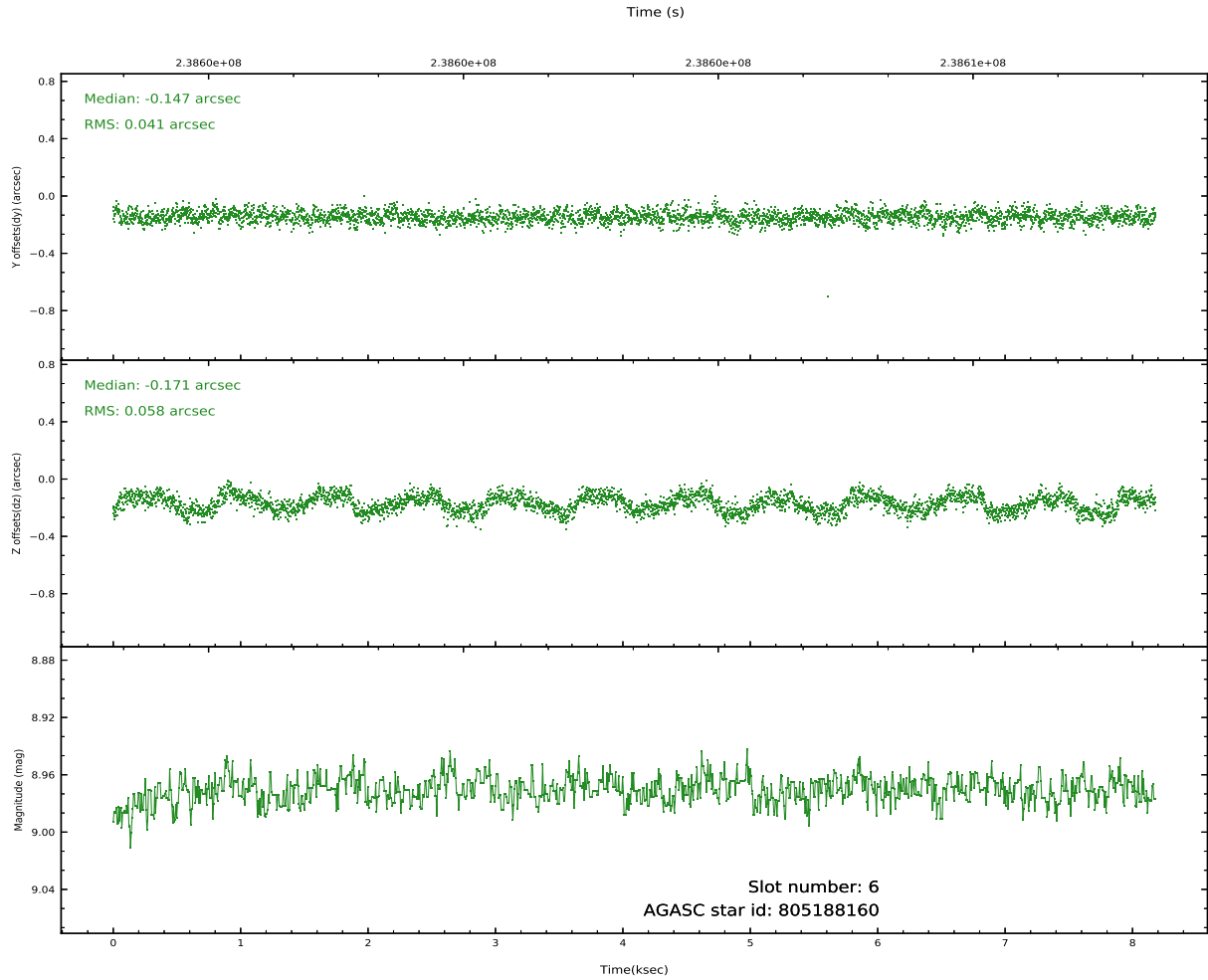
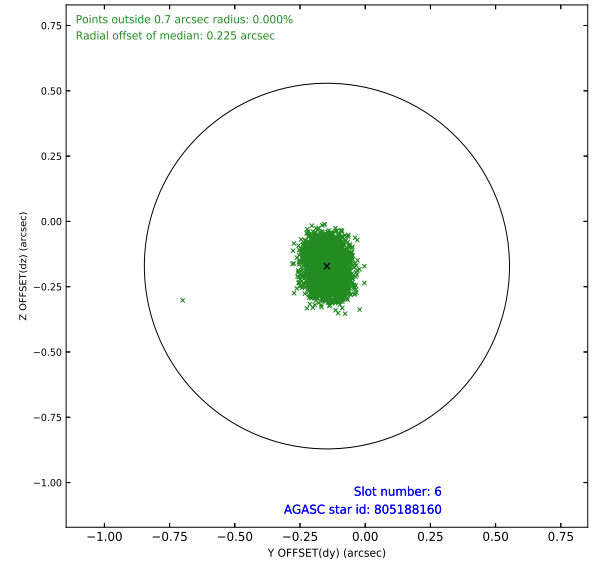
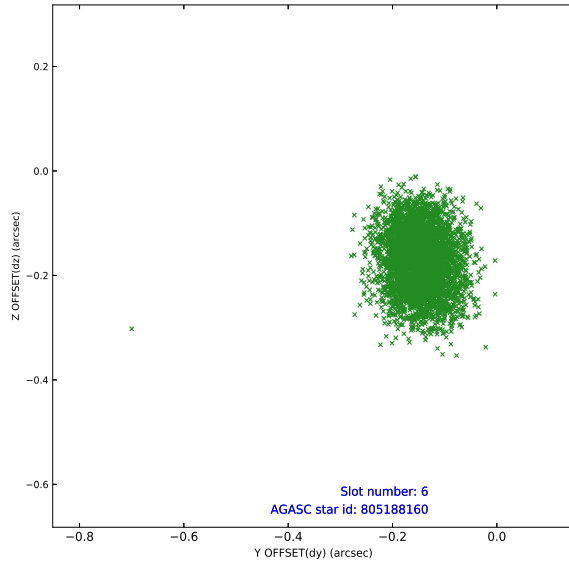
2.4.2 Slot 4



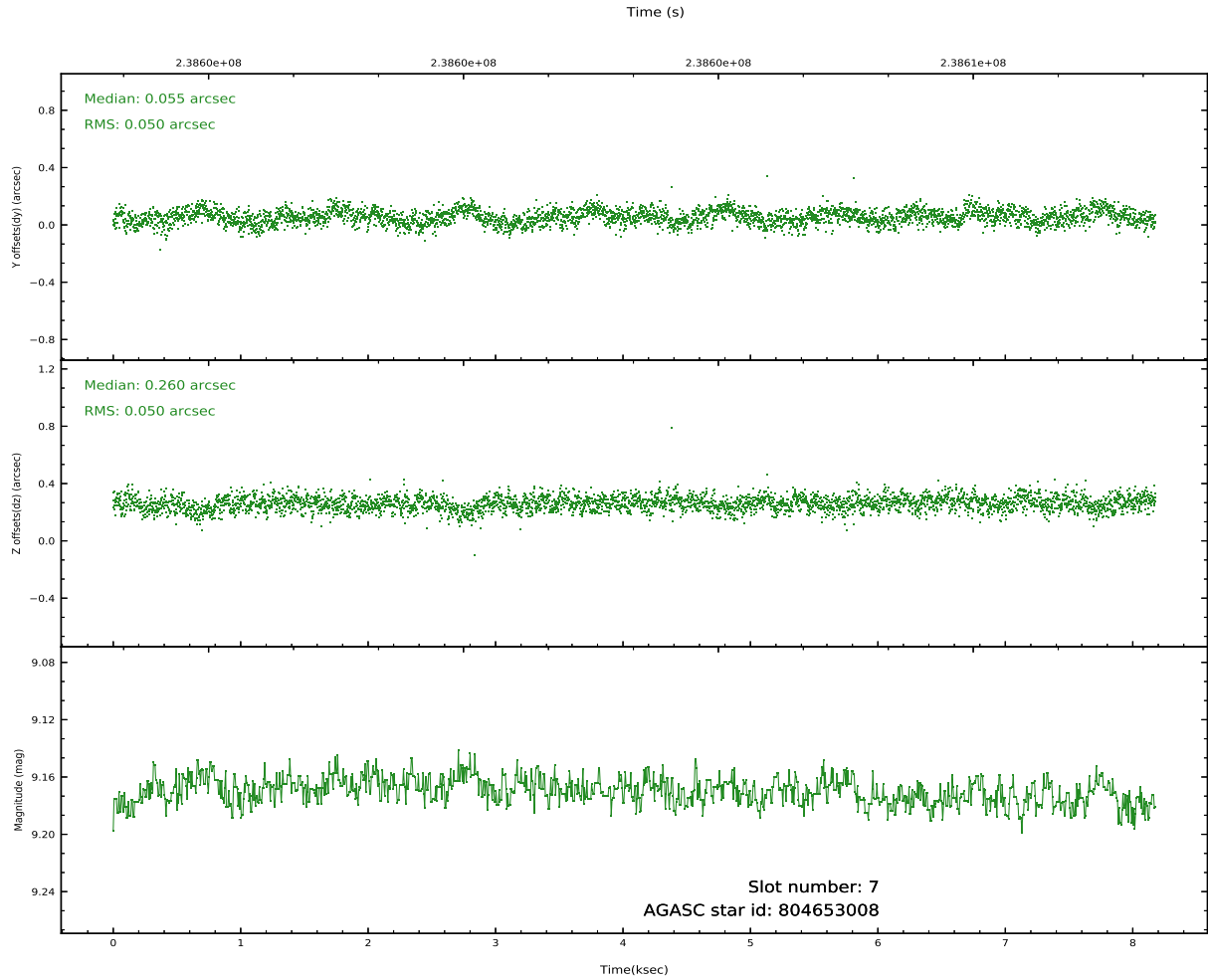
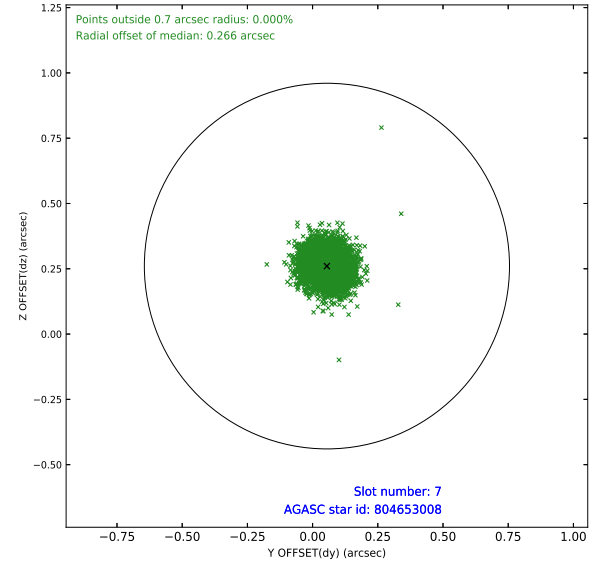
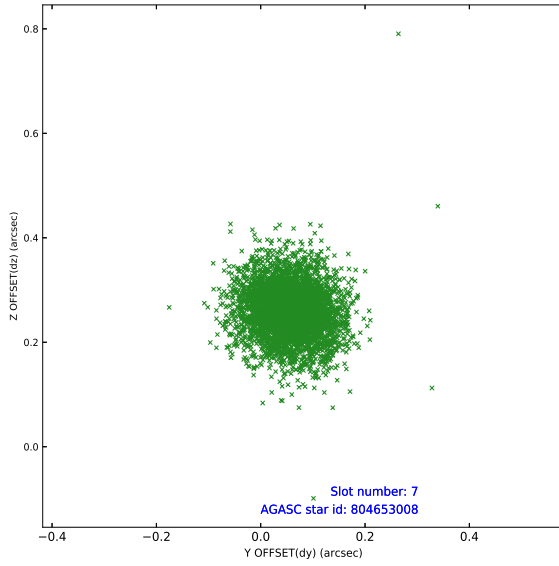
2.4.3 Slot 5



2.4.4 Slot 6

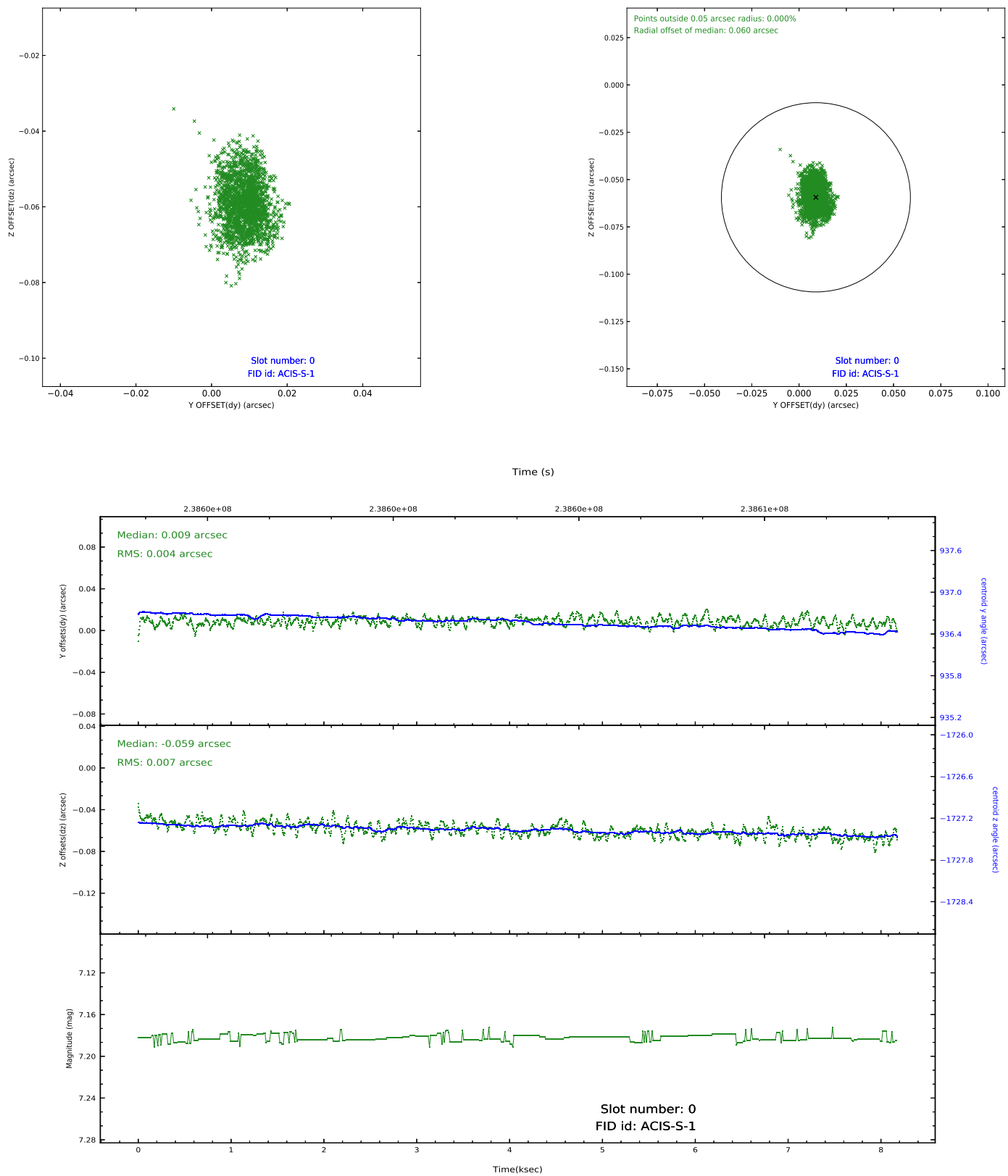


2.4.5 Slot 7

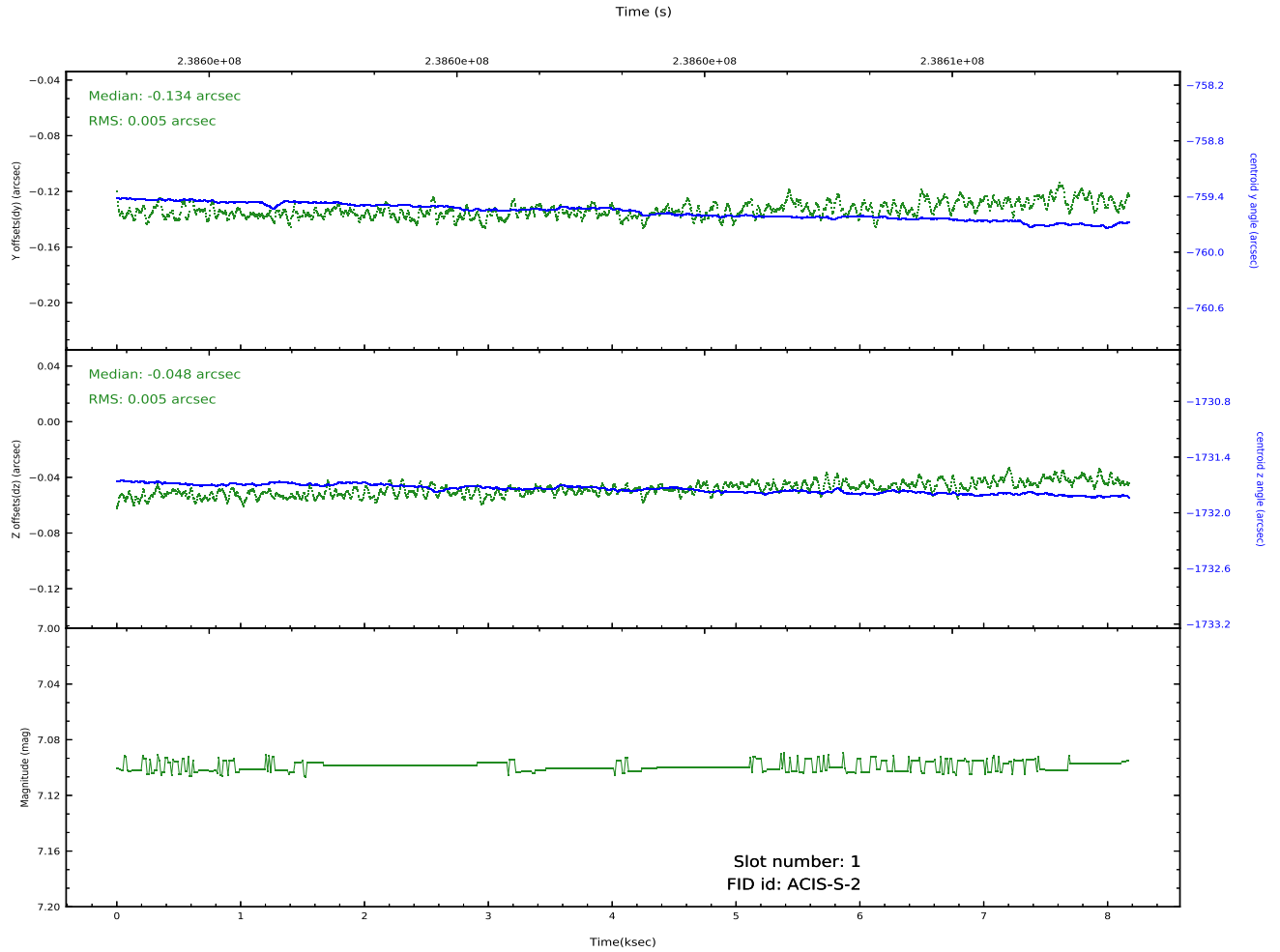
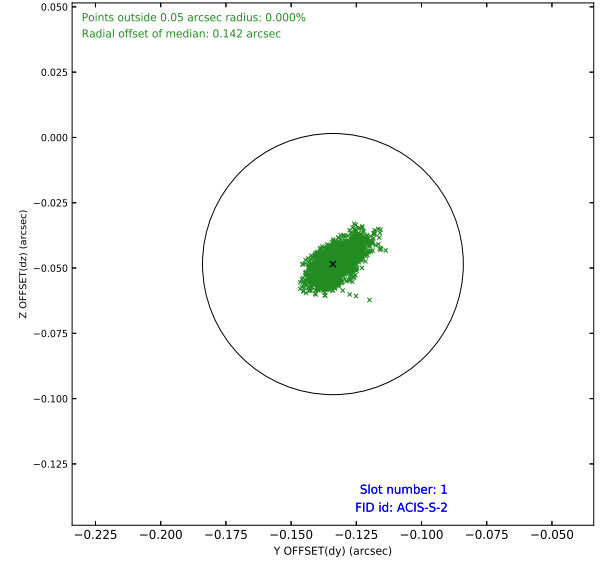
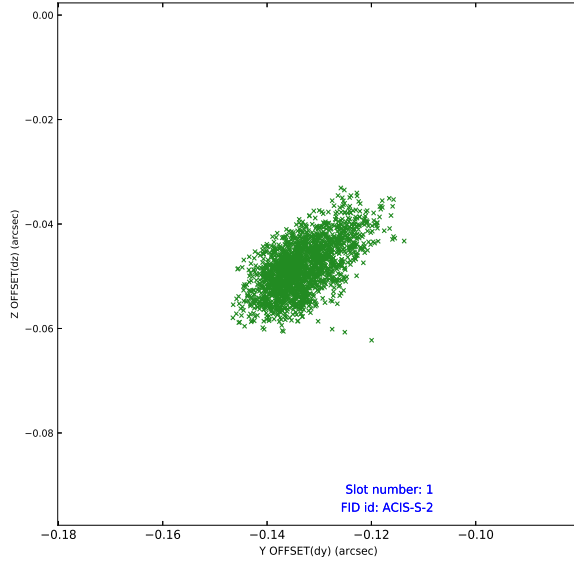


2.5 FID Slots

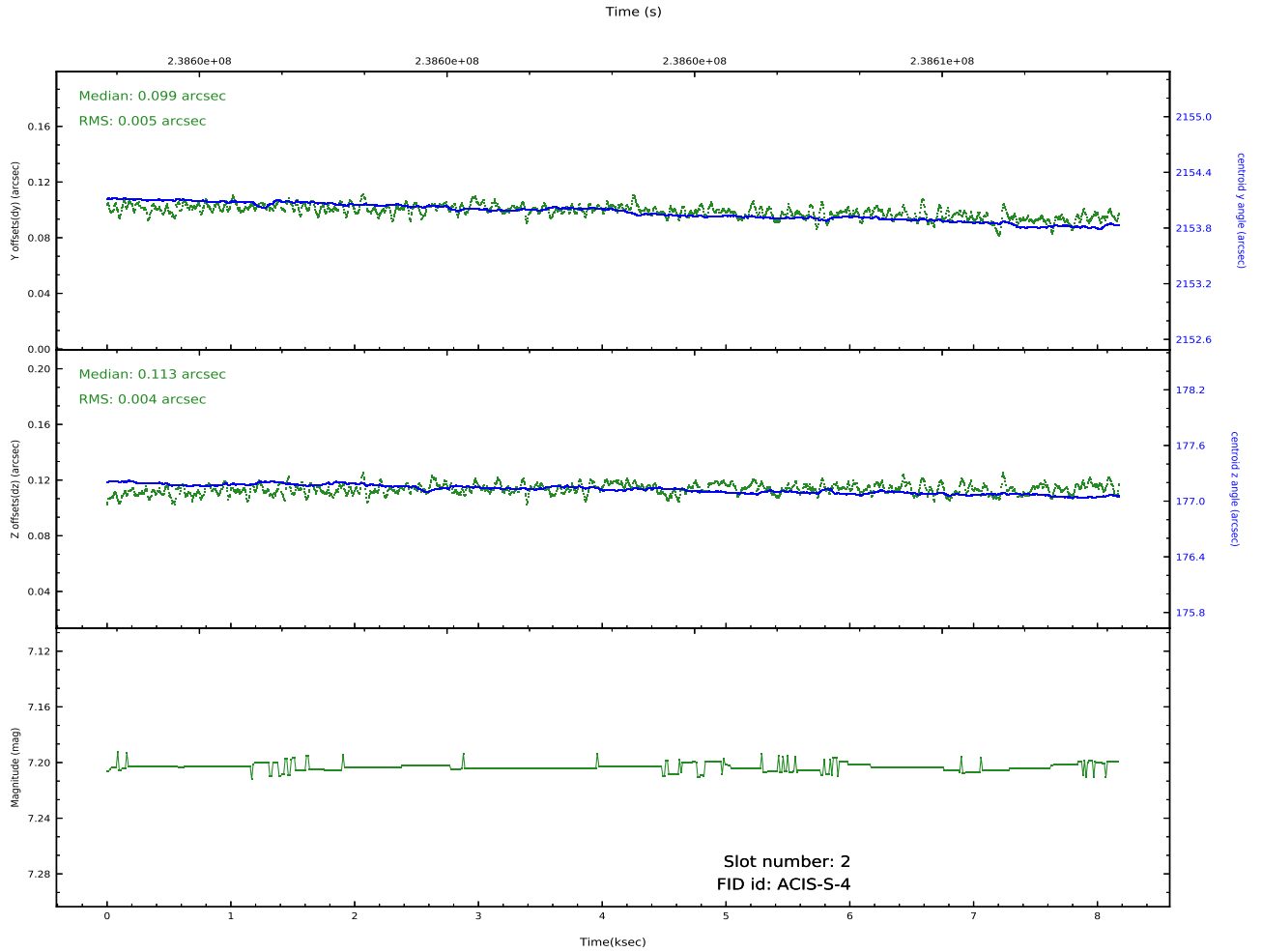
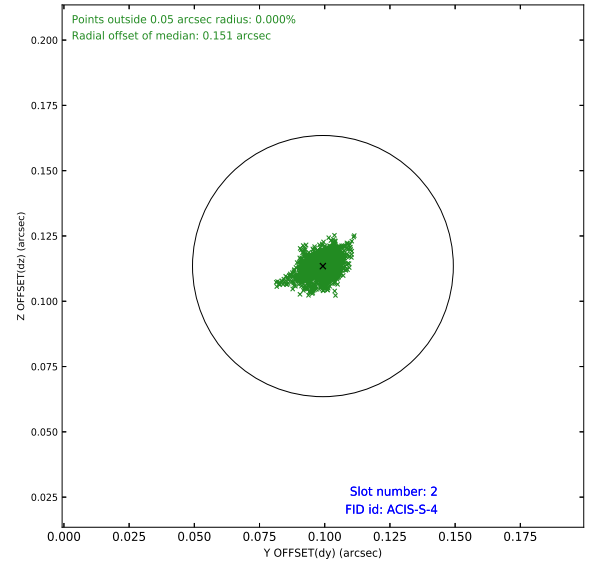
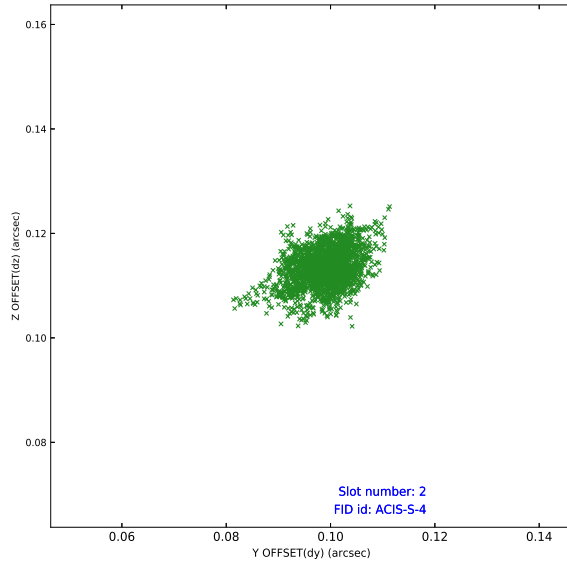
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	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	8.37475

A.2 Comments

Charge time for this ObsId remains at original value of 8.3745 ksec, although with the current processing the charge time would have been 8.175 ksec.

Window constraint satisfied. This is a moving target. Users will need to run sso_freeze or similar software to position the events in the reference frame of the target.