

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 5723 - L2 Version 5  
Chandra X-Ray Center

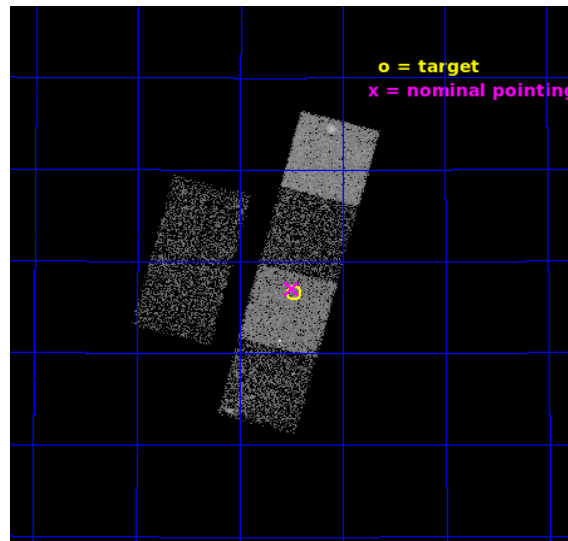
L2 Processing Date : Oct 5 2020

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# 1 Front

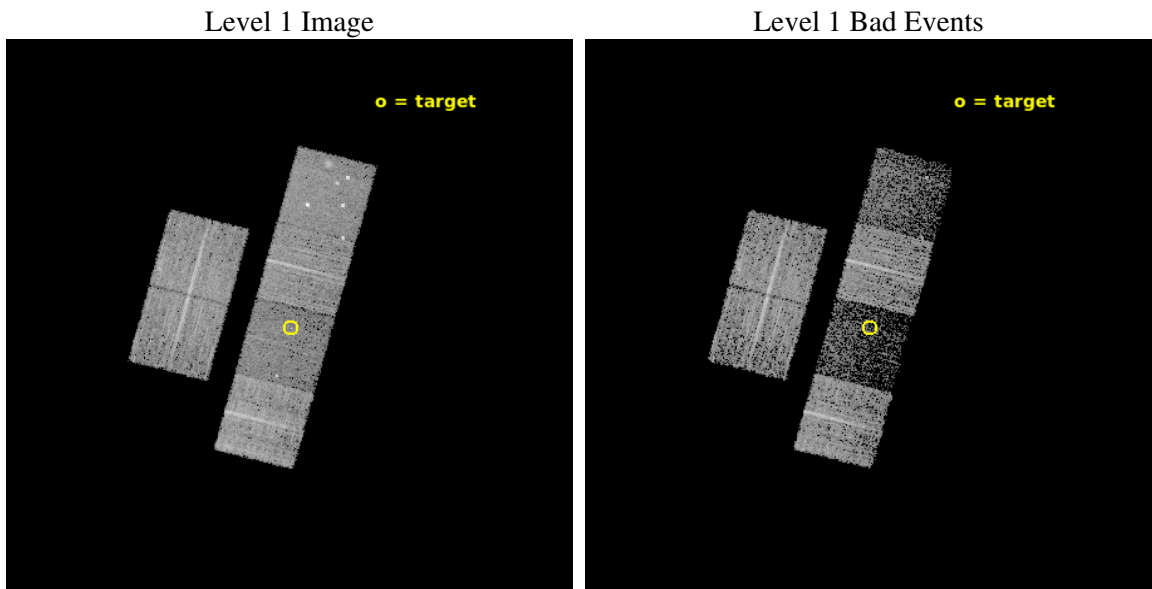
seq_num	701145	Sequence number
obs_id	5723	Observation id
title	What kind of Jets does Nature make? X-ray characterization of the FIRST Flat Spectrum Sample	Proposal title
observer	Dr. Giovanni Fossati	Principal investigator
object	NVSS J091528+441632	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	138.87	Observer's specified target RA [deg]
dec_targ	44.275833	Observer's specified target Dec [deg]
ra_nom	138.87373739533	Nominal RA [deg]
dec_nom	44.284062386577	Nominal Dec [deg]
roll_nom	104.89821197382	Nominal Roll [deg]
revision	5	Processing version of data
ontime	5753.2027514875	Sum of GTIs [s]
livetime	5680.3522340854	Livetime [s]
ontime2	5753.2437914908	Sum of GTIs [s]
ontime3	5753.0796314776	Sum of GTIs [s]
ontime5	5753.1617114842	Sum of GTIs [s]
ontime6	5753.1206714809	Sum of GTIs [s]
ontime7	5753.2027514875	Sum of GTIs [s]
ontime8	5749.7976112366	Sum of GTIs [s]
l2events	35668	Number of level 2 events



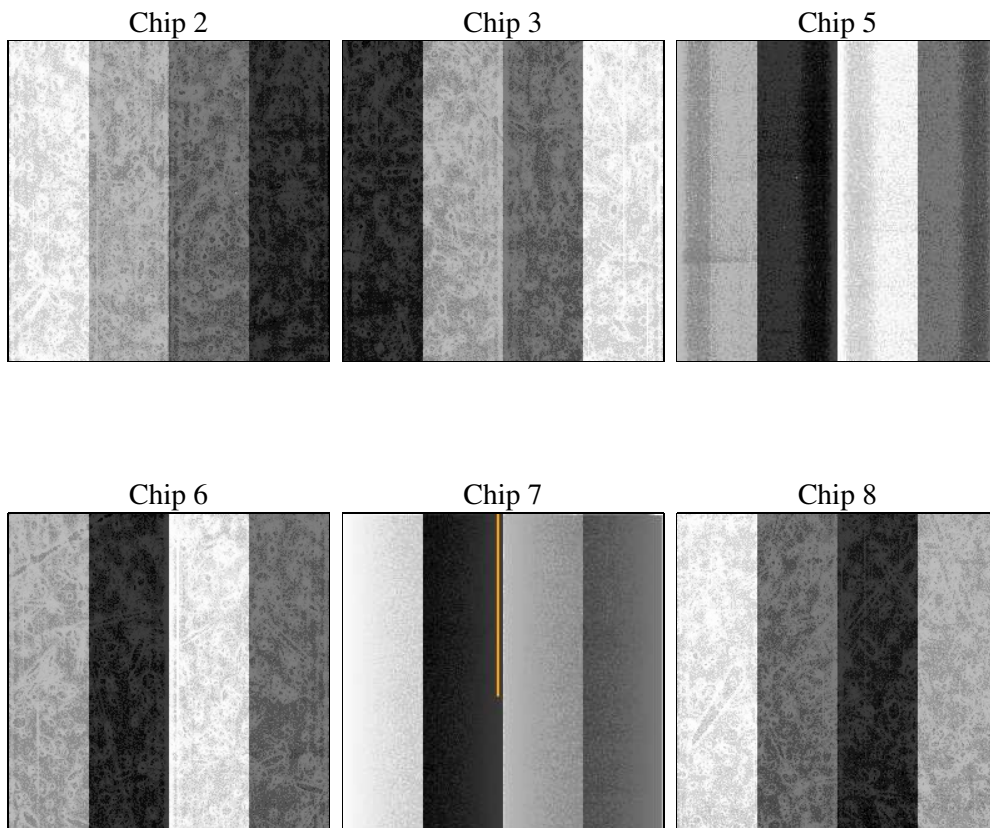
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	5753.2027514875	Sum of GTIs [s]
caldsver	4.9.2	&#160	ontime2	5753.2437914908	Sum of GTIs [s]
date	2020-10-05T18:40:36	Date and time of file creation	ontime3	5753.0796314776	Sum of GTIs [s]
revision	5	Processing version of data	ontime5	5753.1617114842	Sum of GTIs [s]
			ontime6	5753.1206714809	Sum of GTIs [s]
			ontime7	5753.2027514875	Sum of GTIs [s]
			ontime8	5749.7976112366	Sum of GTIs [s]
			l1events	189736	Number of level 1 events

### 2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	34606	31157	31418	32881	18767	40907
rejected events	31835	28699	11156	30057	7625	31929
rejected %	91%	92%	35%	91%	40%	78%

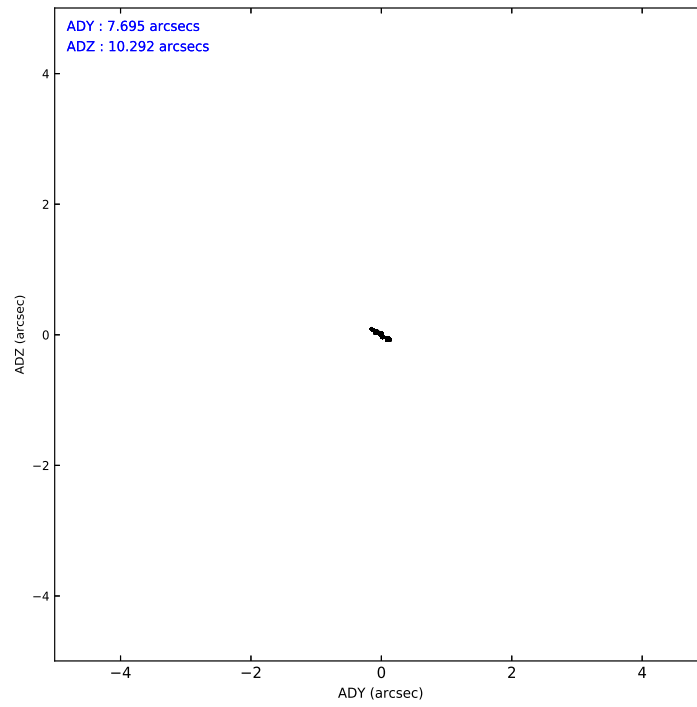
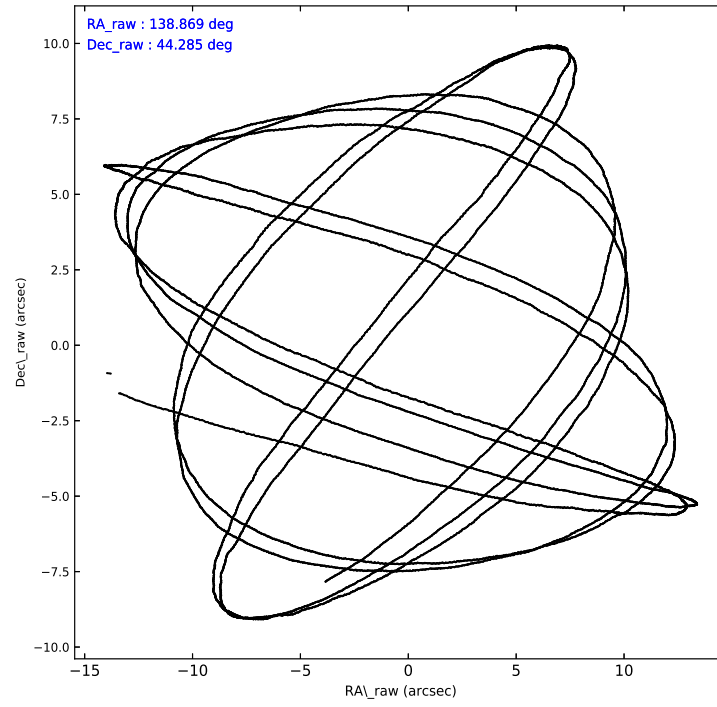
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	1170	997	4990	1232	1524	2798
	3%	3%	15%	3%	8%	6%
grade 1 events	22	10	85	9	25	34
	0%	0%	0%	0%	0%	0%
grade 2 events	635	509	5734	570	2615	2082
	1%	1%	18%	1%	13%	5%
grade 3 events	299	291	991	304	1202	986
	0%	0%	3%	0%	6%	2%
grade 4 events	299	289	1001	309	1156	951
	0%	0%	3%	0%	6%	2%
grade 5 events	486	638	2388	635	1893	1083
	1%	2%	7%	1%	10%	2%
grade 6 events	372	373	7568	411	4660	2166
	1%	1%	24%	1%	24%	5%
grade 7 events	31323	28050	8661	29411	5692	30807
	90%	90%	27%	89%	30%	75%

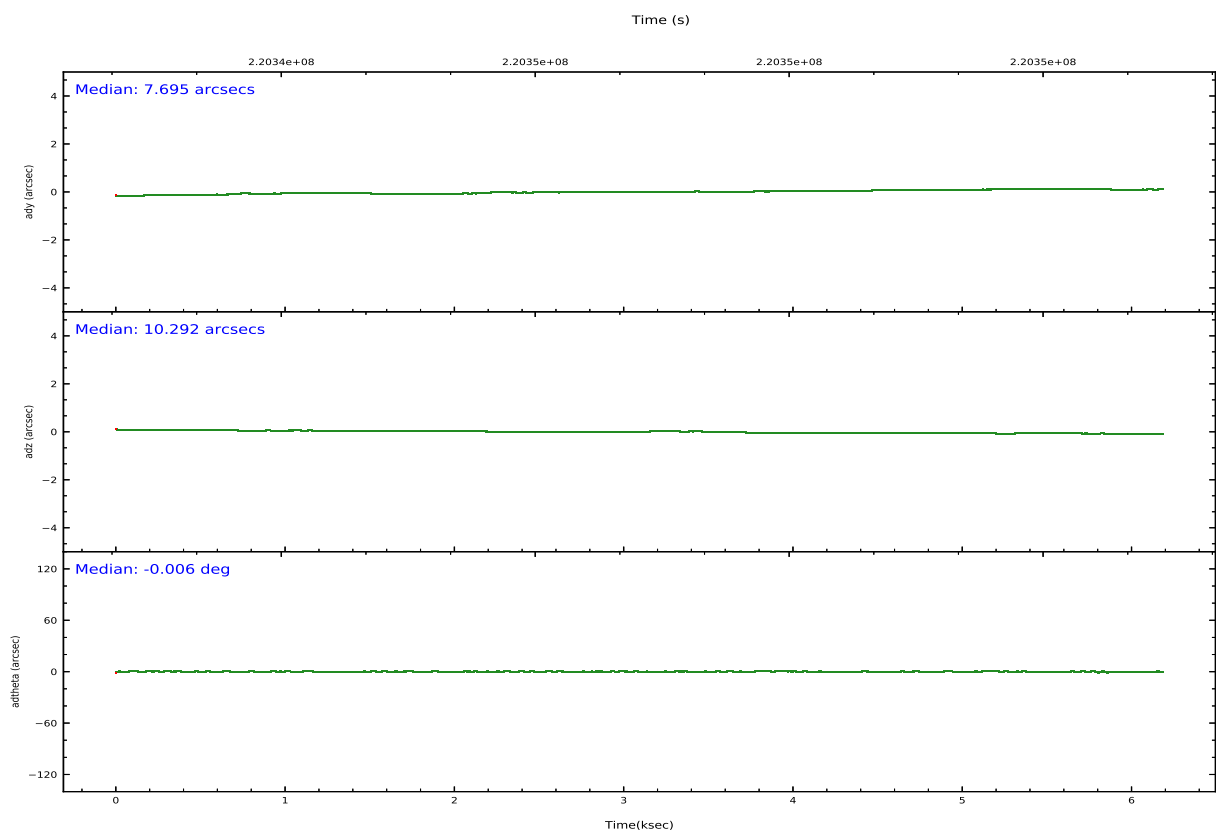
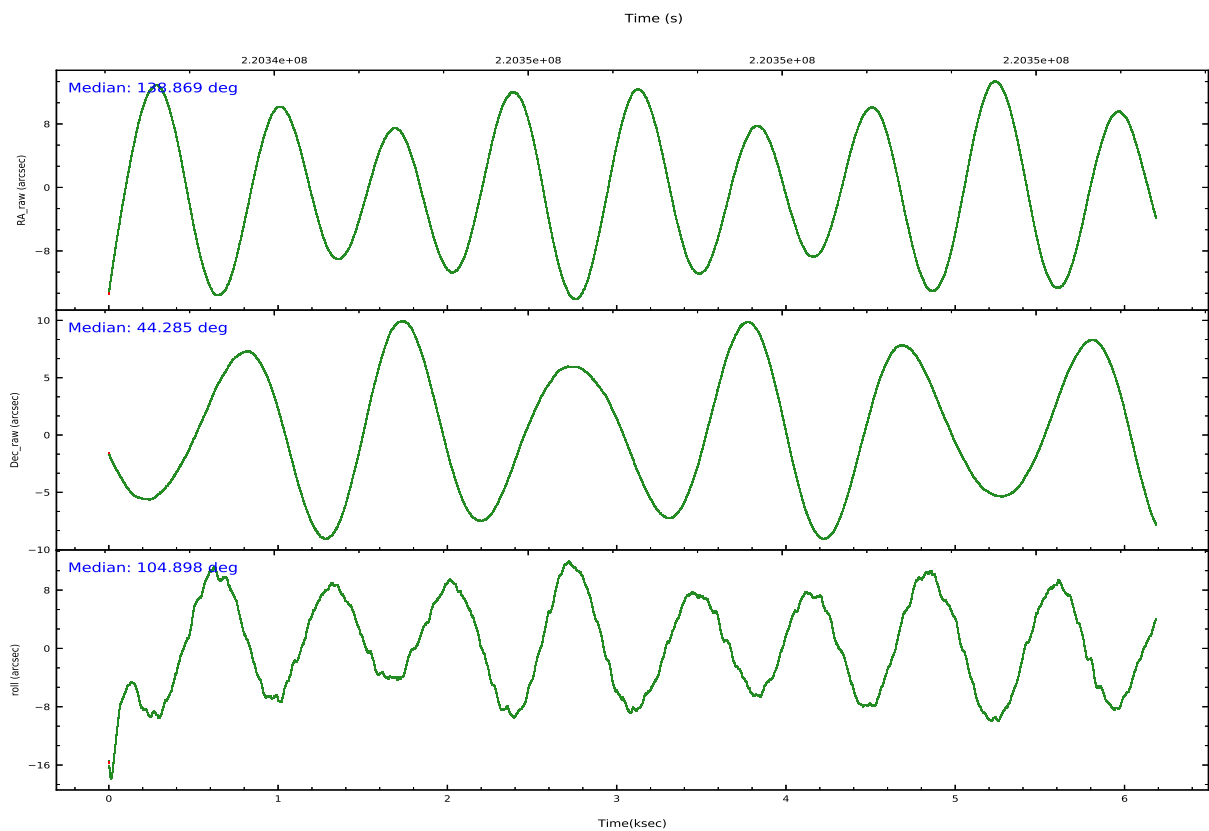


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-235678	ACIS-235678	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	138.896067	138.87373739533	Subarray requested	NONE	NONE
[deg] Pointing Dec	44.266439	44.284062386577	Alternating exposures requested	N	N
[deg] Pointing Roll	104.720861	104.89821197382	[s] Primary exposure time	0.000000	3.2
[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)	220344209.184000	220343611.23582			
Observation start date	2004-12-25T06:42:25	2004-12-25T06:33:31			
[s] Observation end time (MET)	220350209.184000	220350565.86113			
Observation end date	2004-12-25T08:22:25	2004-12-25T08:29:25			
Read mode	TIMED	TIMED			

## 2.3 Aspect



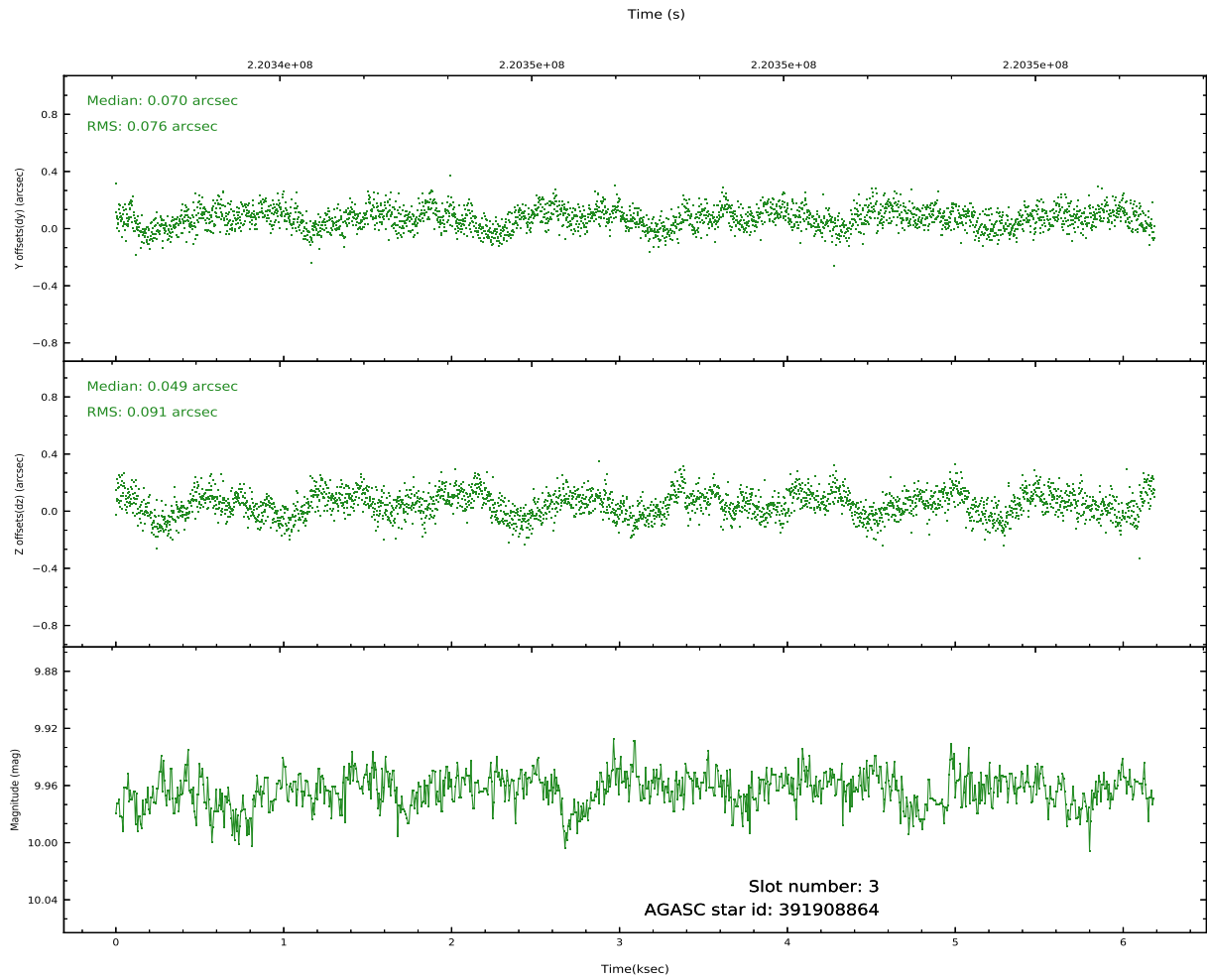
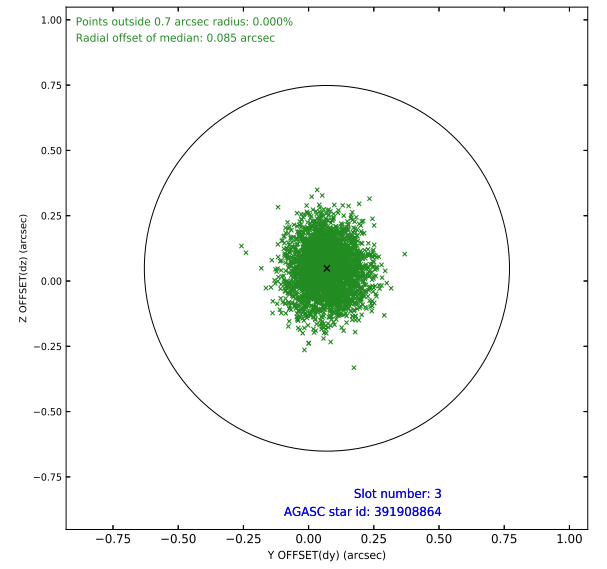
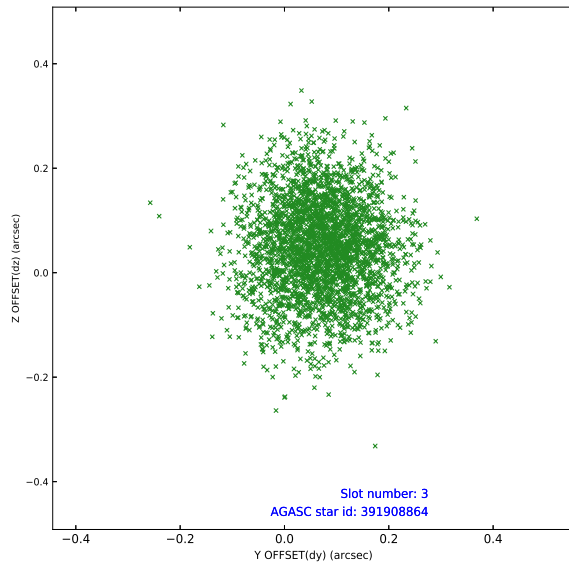


Slot Statistics

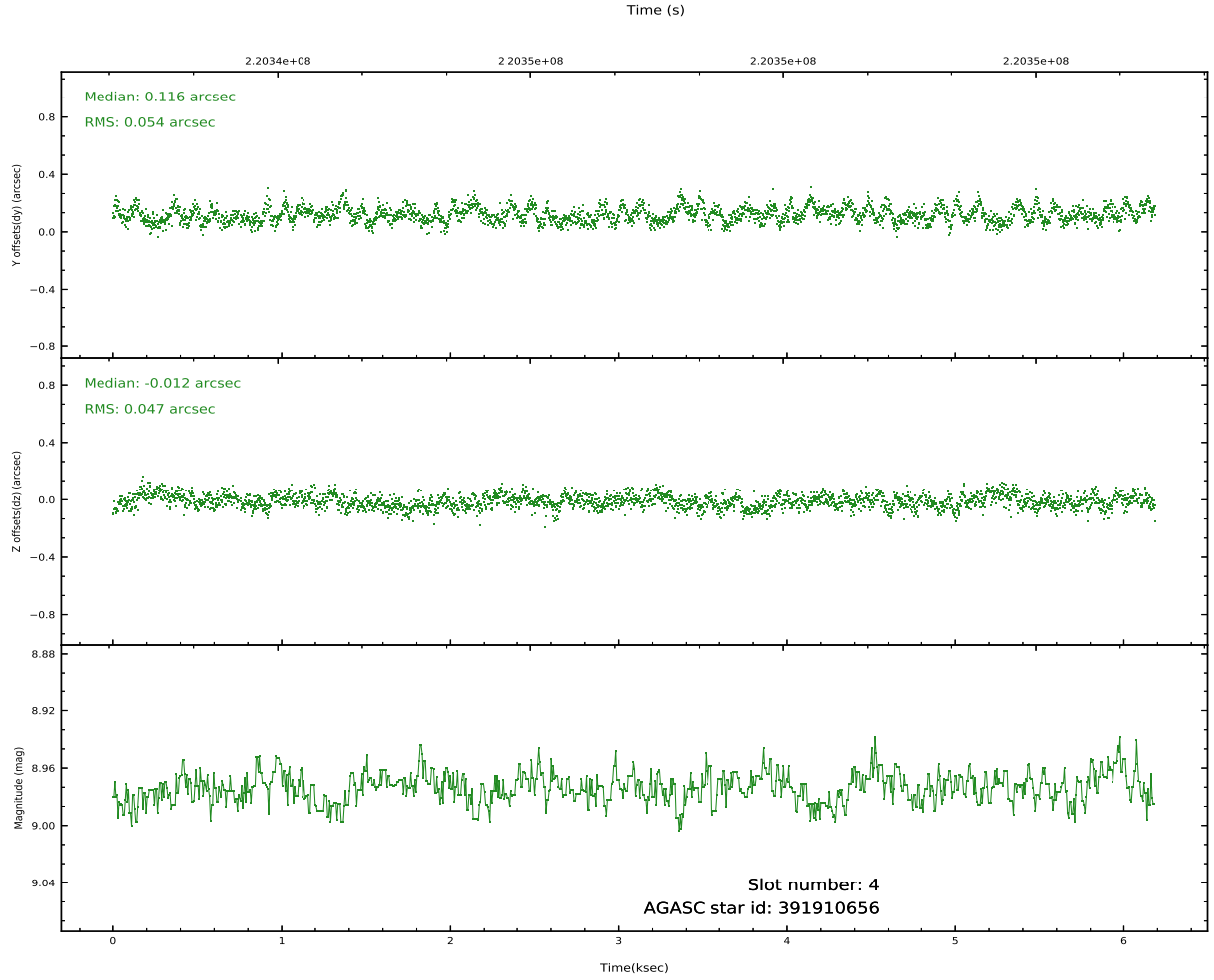
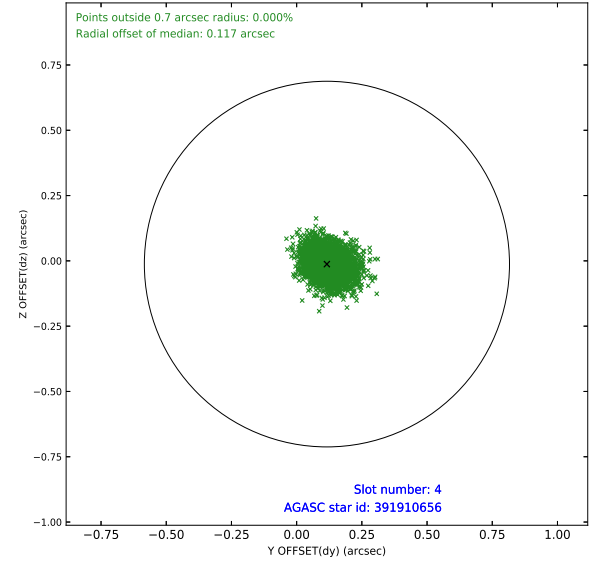
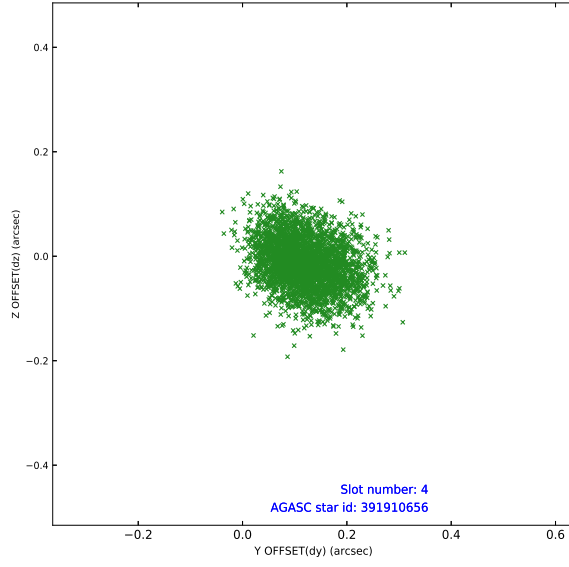
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	1510	1.000	-0.076	-0.058	0.008	0.012	0.000000	0.000000	-760.47	-1731
1	FID		ACIS-S-4	7.21	1510	1.000	0.160	0.052	0.006	0.011	0.000000	0.000000	2152.53	176
2	FID		ACIS-S-5	7.23	1510	1.000	-0.115	0.014	0.007	0.012	0.000000	0.000000	-1812.20	170
3	GUIDE	used	391908864	9.96	3019	1.000	0.070	0.049	0.126	0.207	139.810958	43.824293	-2130.07	-1896
4	GUIDE	used	391910656	8.97	3013	1.000	0.116	-0.012	0.077	0.125	138.431486	43.827826	-1217.75	1567
5	GUIDE	used	391912112	7.74	3019	1.000	-0.091	0.025	0.062	0.097	138.344023	44.310586	519.31	1334
6	GUIDE	used	391913136	9.03	3014	1.000	0.101	-0.117	0.075	0.119	138.783763	44.049913	-680.76	479
7	GUIDE	used	391917520	6.60	3018	1.000	-0.200	0.058	0.050	0.077	138.959805	44.697917	1460.87	-551

## 2.4 Star Slots

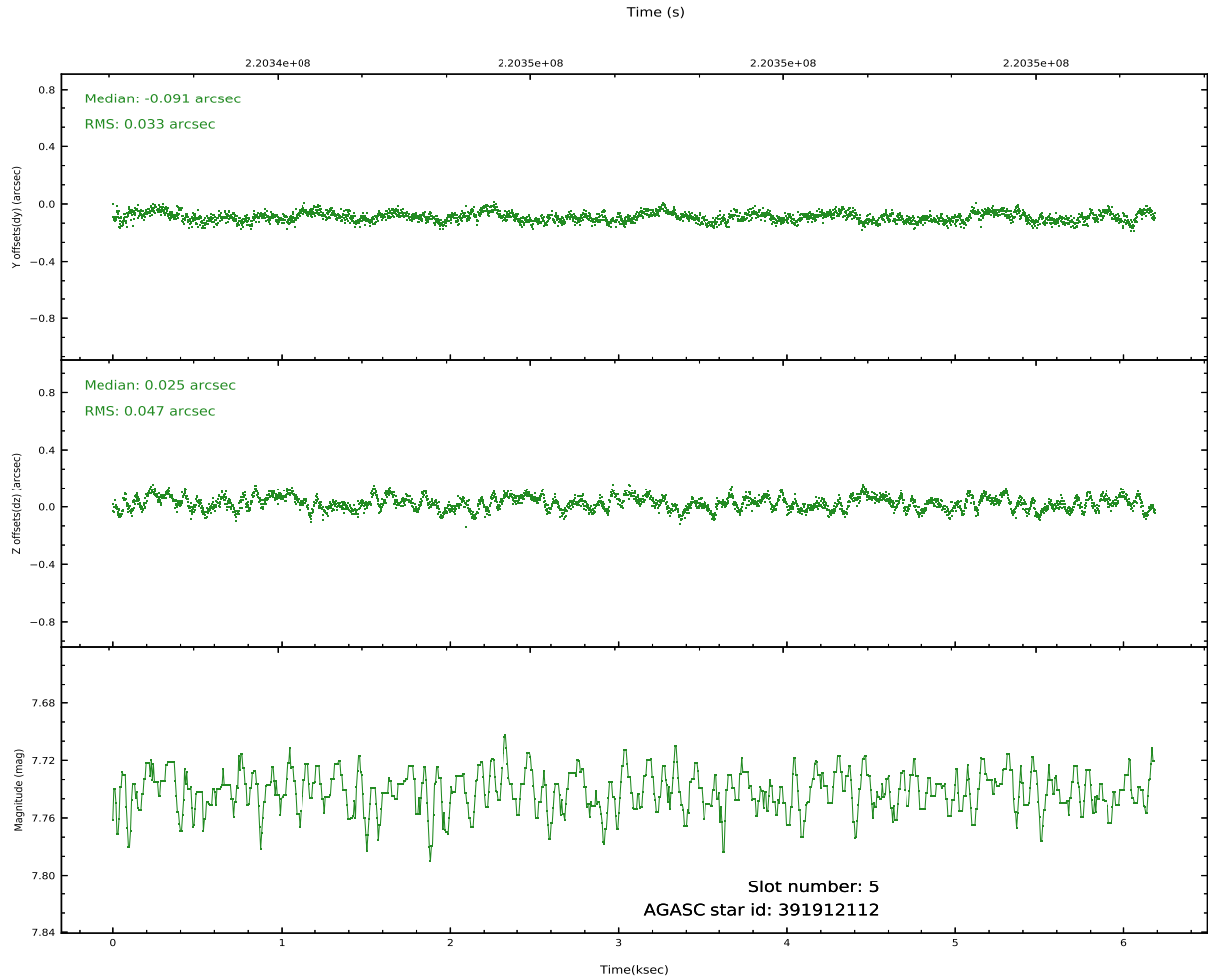
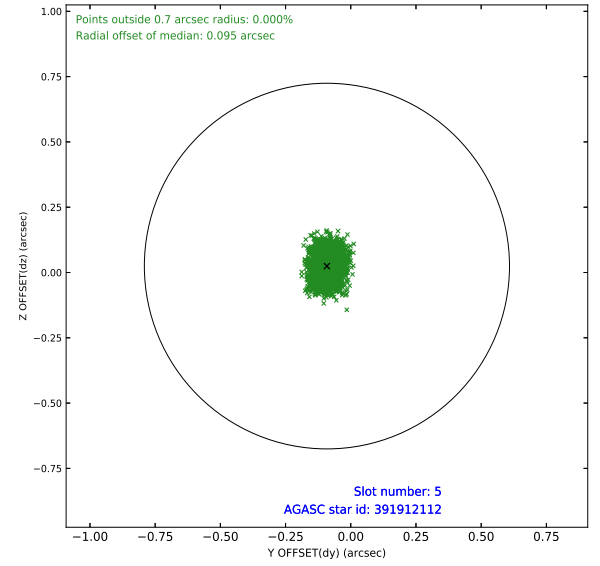
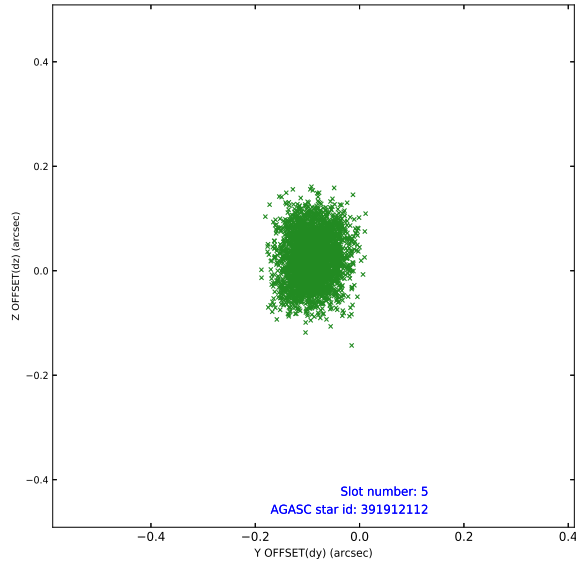
### 2.4.1 Slot 3



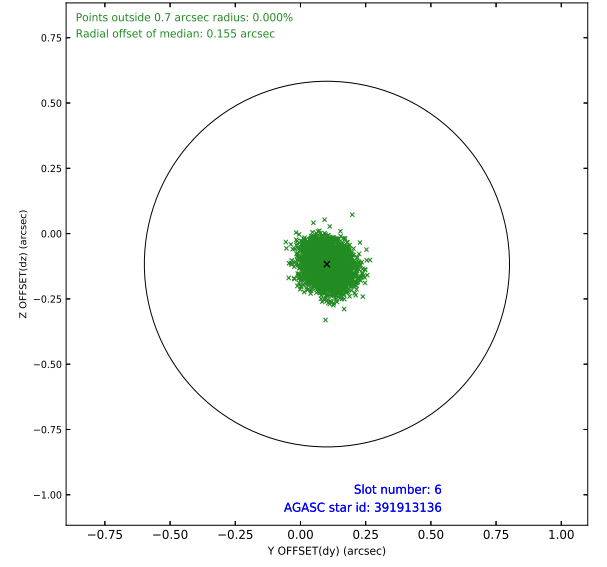
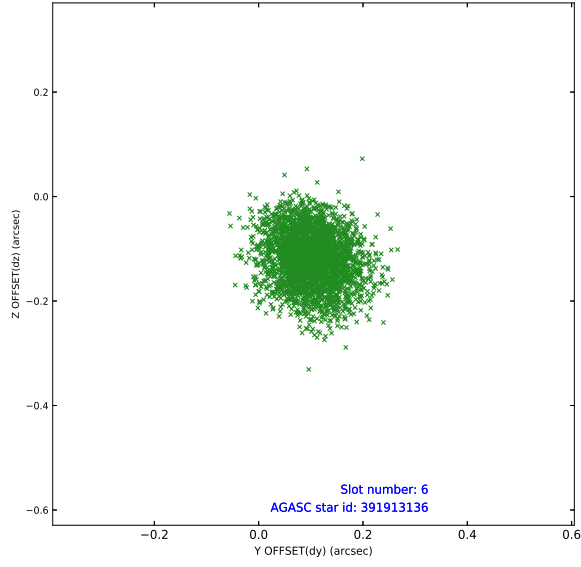
## 2.4.2 Slot 4



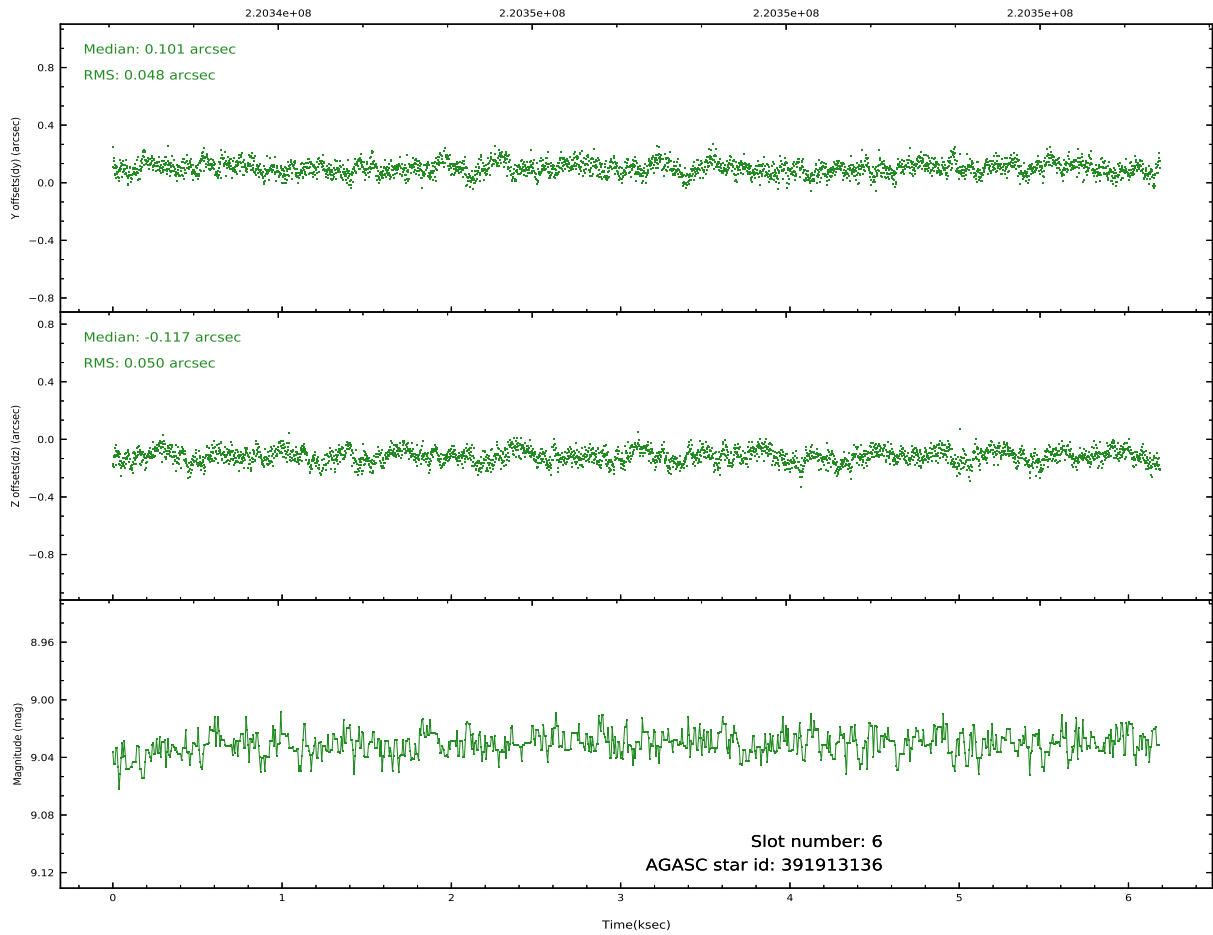
### 2.4.3 Slot 5



## 2.4.4 Slot 6

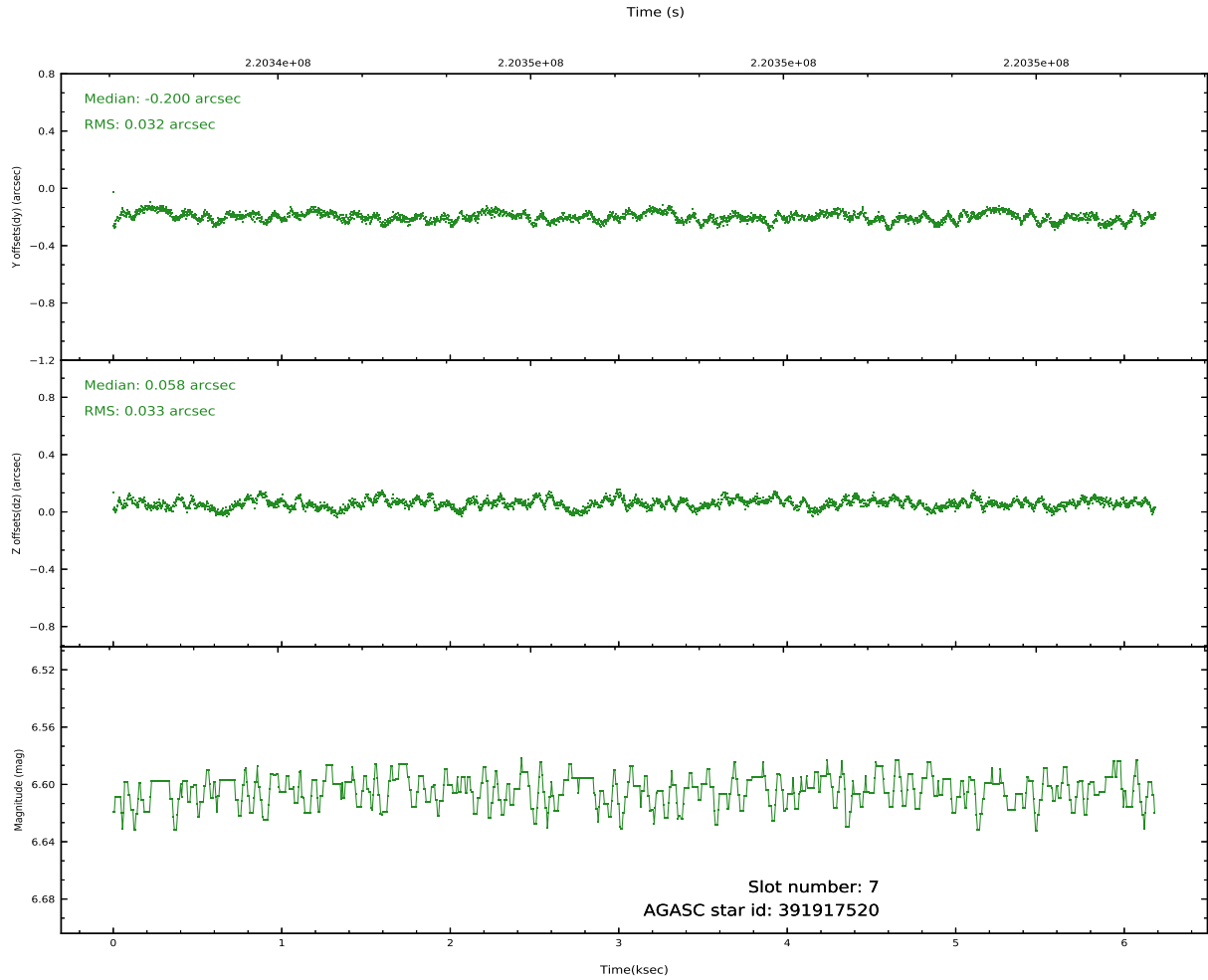
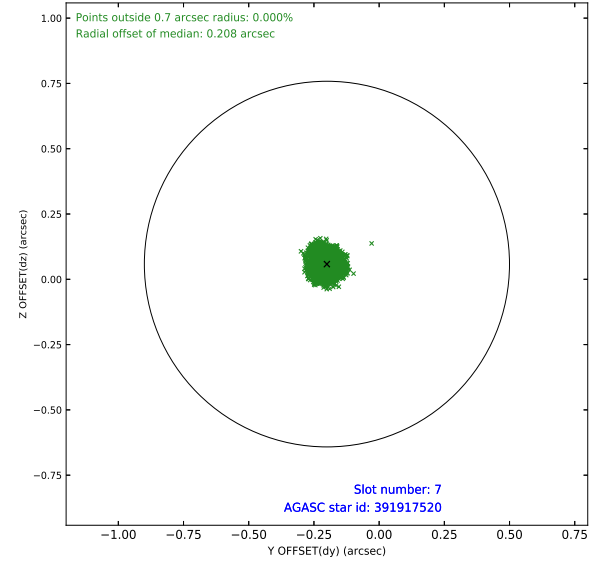
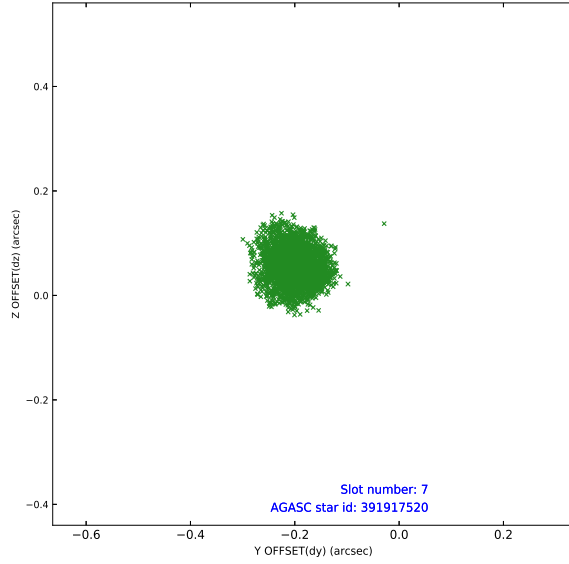


Time (s)



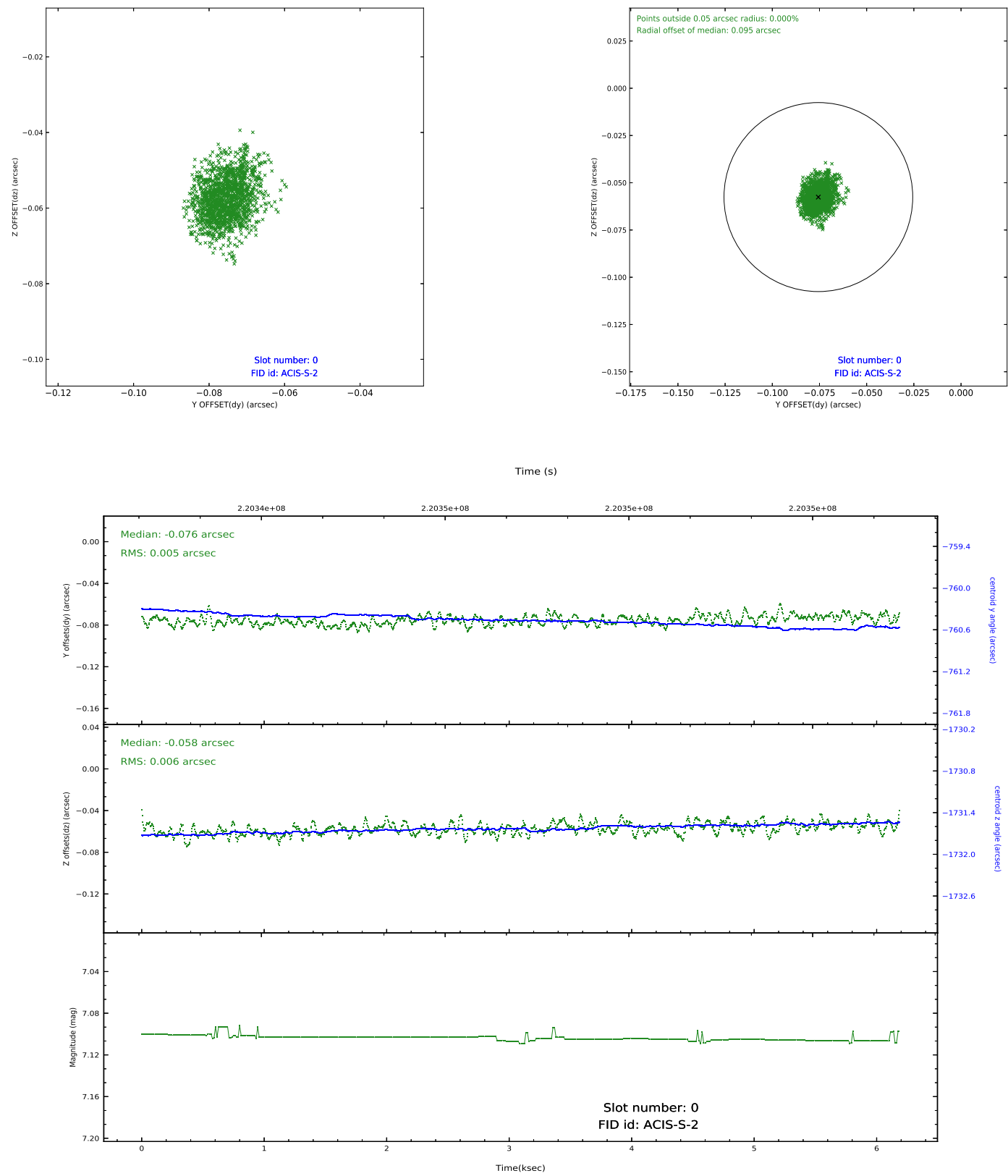


## 2.4.5 Slot 7

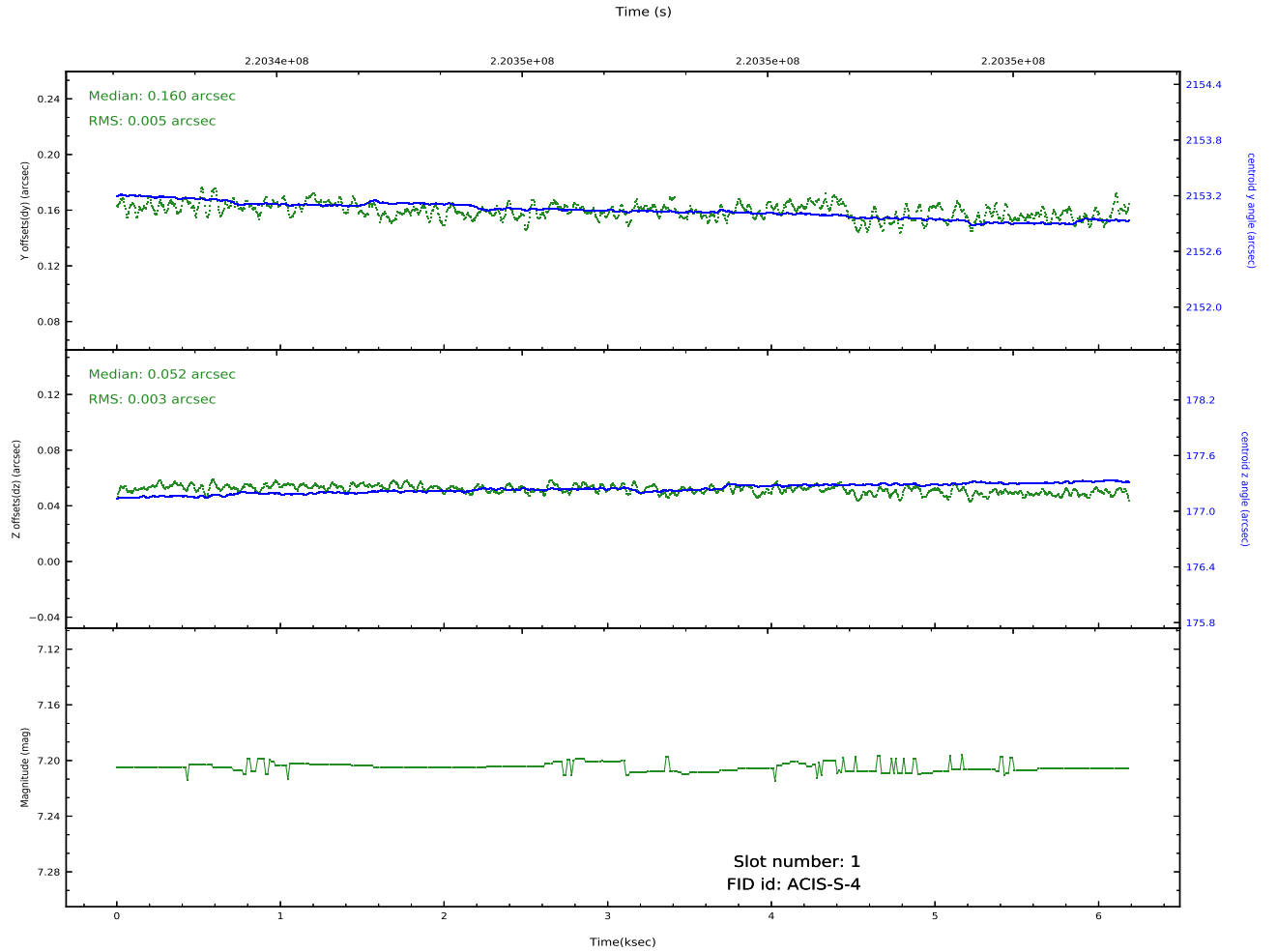
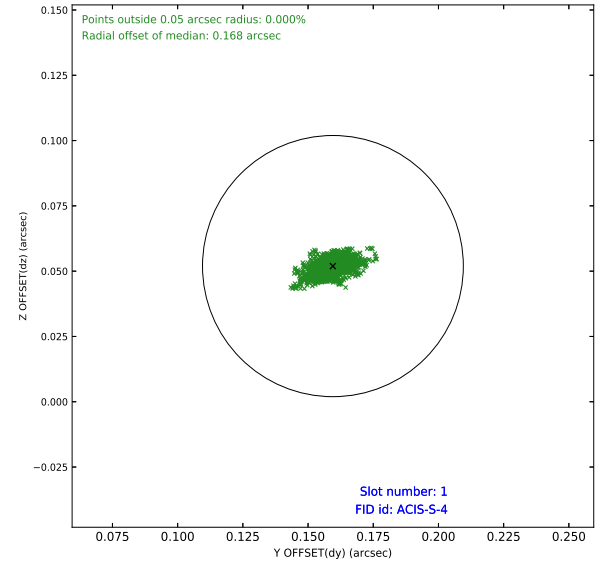
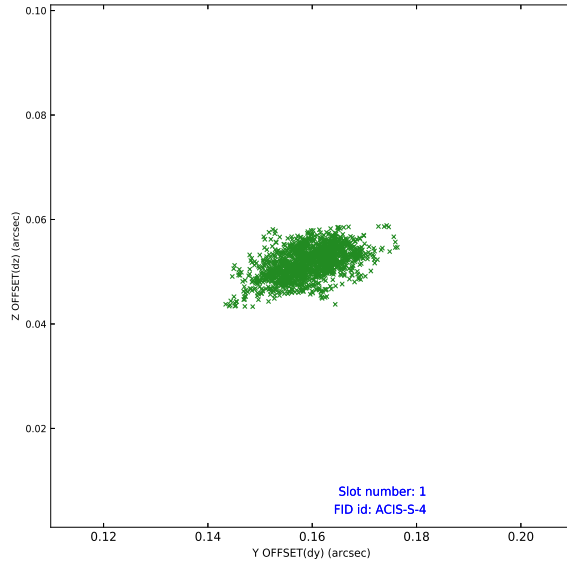


# 2.5 FID Slots

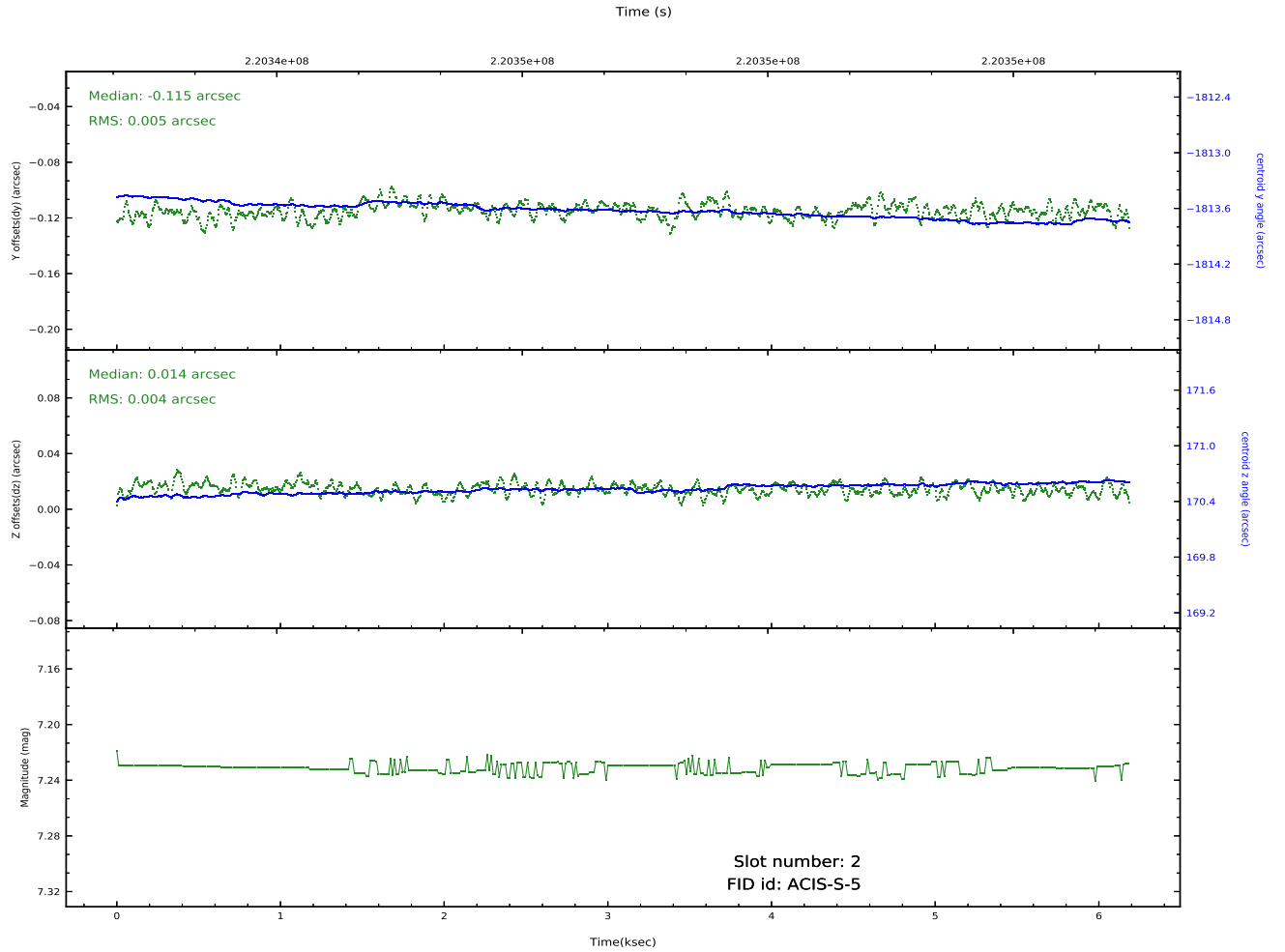
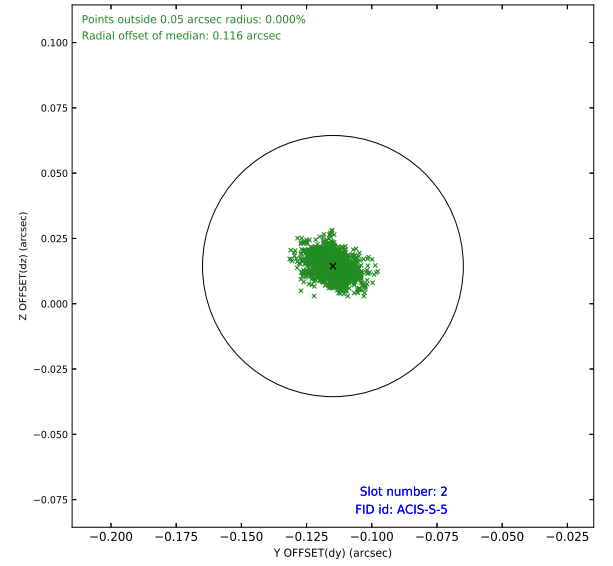
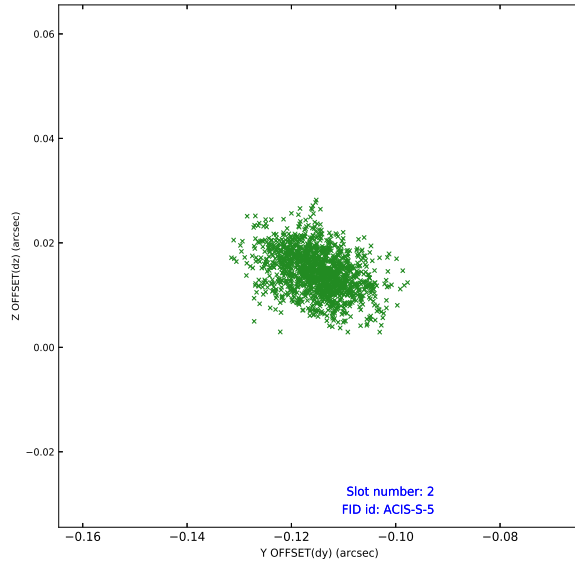
## 2.5.1 Slot 0



## 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)	2020.10.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.753599

### A.2 Comments