

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 4877 - L2 Version 4  
Chandra X-Ray Center

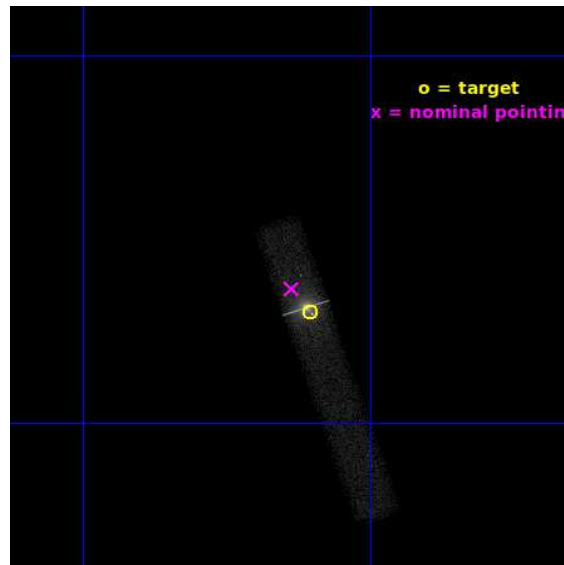
L2 Processing Date : Sep 23 2020

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# 1 Front

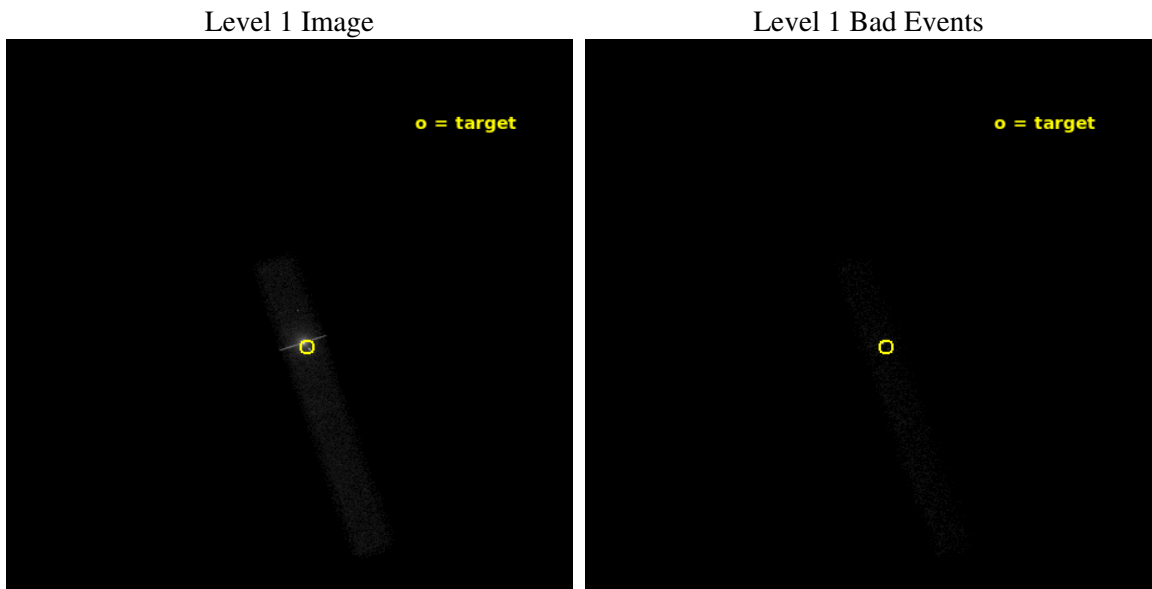
seq_num	700959	Sequence number
obs_id	4877	Observation id
title	The X-ray emission mechanism in 3C273's jet	Proposal title
observer	Dr. Sebastian Jester	Principal investigator
object	3C273-JET	Source name
dtycycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.275833	Observer's specified target RA [deg]
dec_targ	2.050111	Observer's specified target Dec [deg]
ra_nom	187.28396305452	Nominal RA [deg]
dec_nom	2.0607903219616	Nominal Dec [deg]
roll_nom	71.502621666403	Nominal Roll [deg]
revision	4	Processing version of data
ontime	38438.000572741	Sum of GTIs [s]
livetime	34861.237595448	Livetime [s]
ontime7	38438.000572741	Sum of GTIs [s]
l2events	101873	Number of level 2 events



## 2 OBI

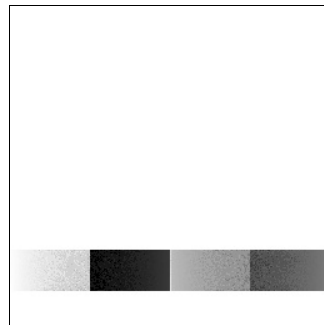
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	37998.518000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	38438.000572741	Sum of GTIs [s]
caldbver	4.9.2	&#160	ontime7	38438.000572741	Sum of GTIs [s]
date	2020-09-23T06:32:08	Date and time of file creation	l1events	200983	Number of level 1 events
revision	4	Processing version of data			

### 2.1.4 Events

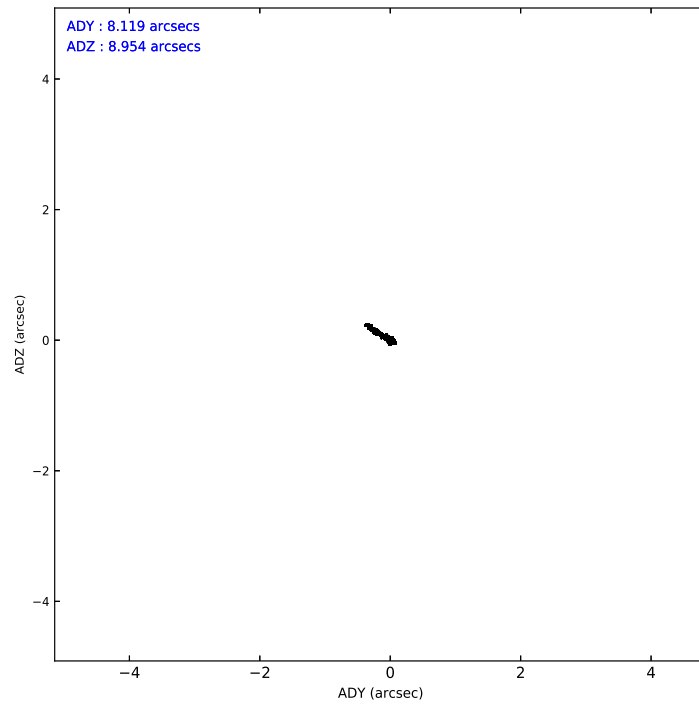
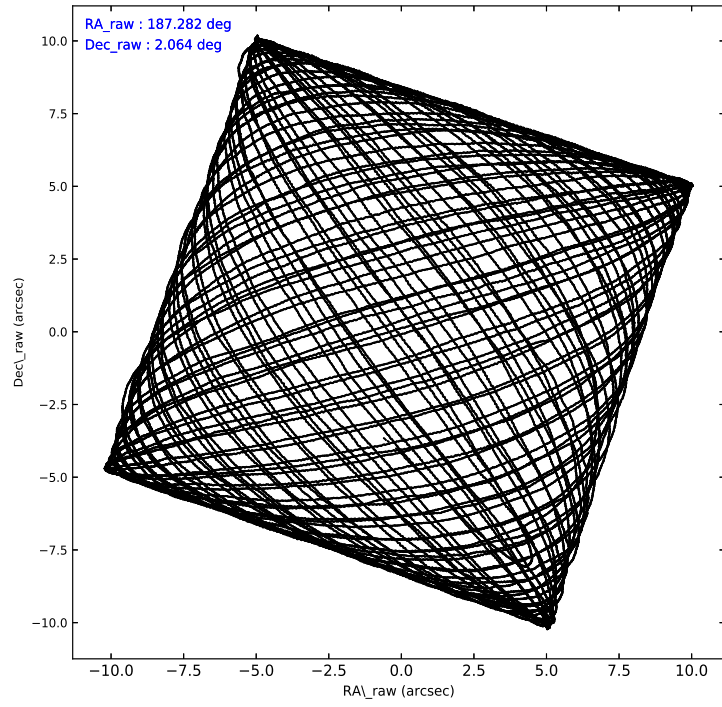
	<b>ccd 7</b>
level 1 events	200983
rejected events	98412
rejected %	48%

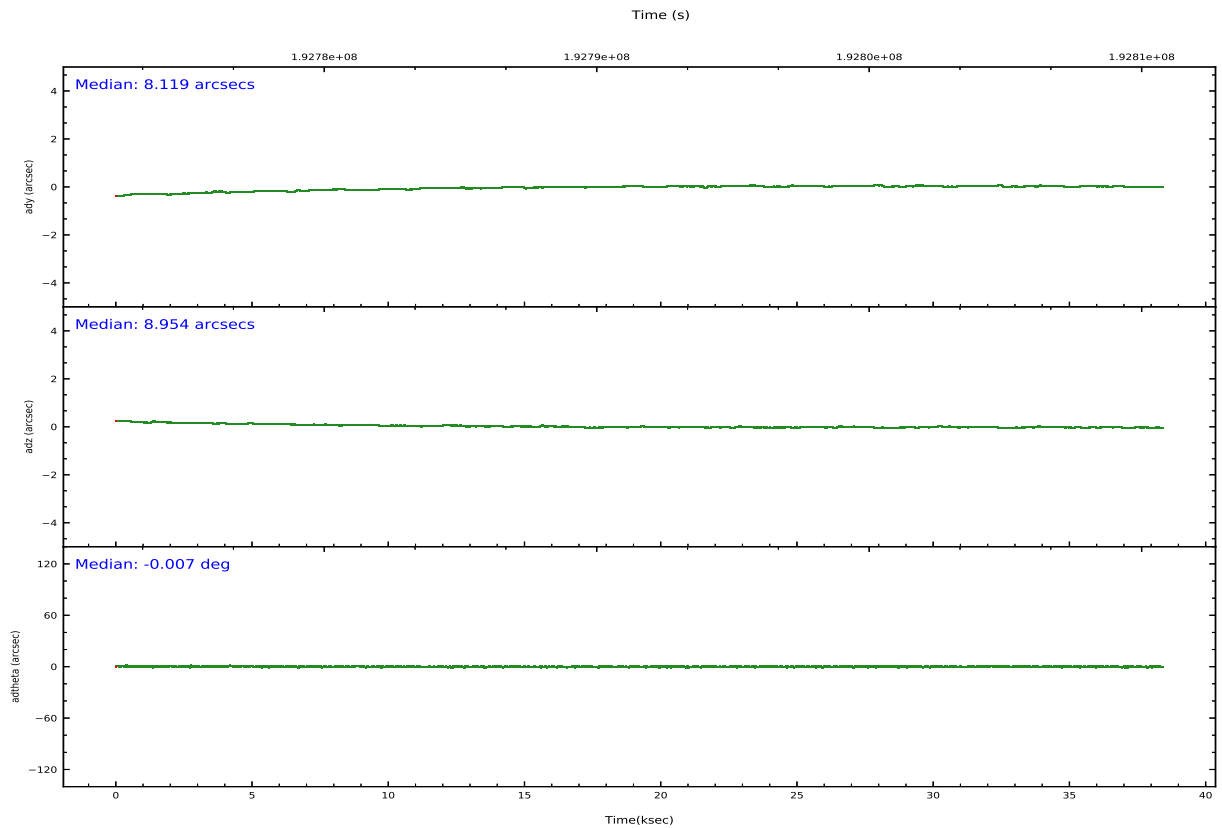
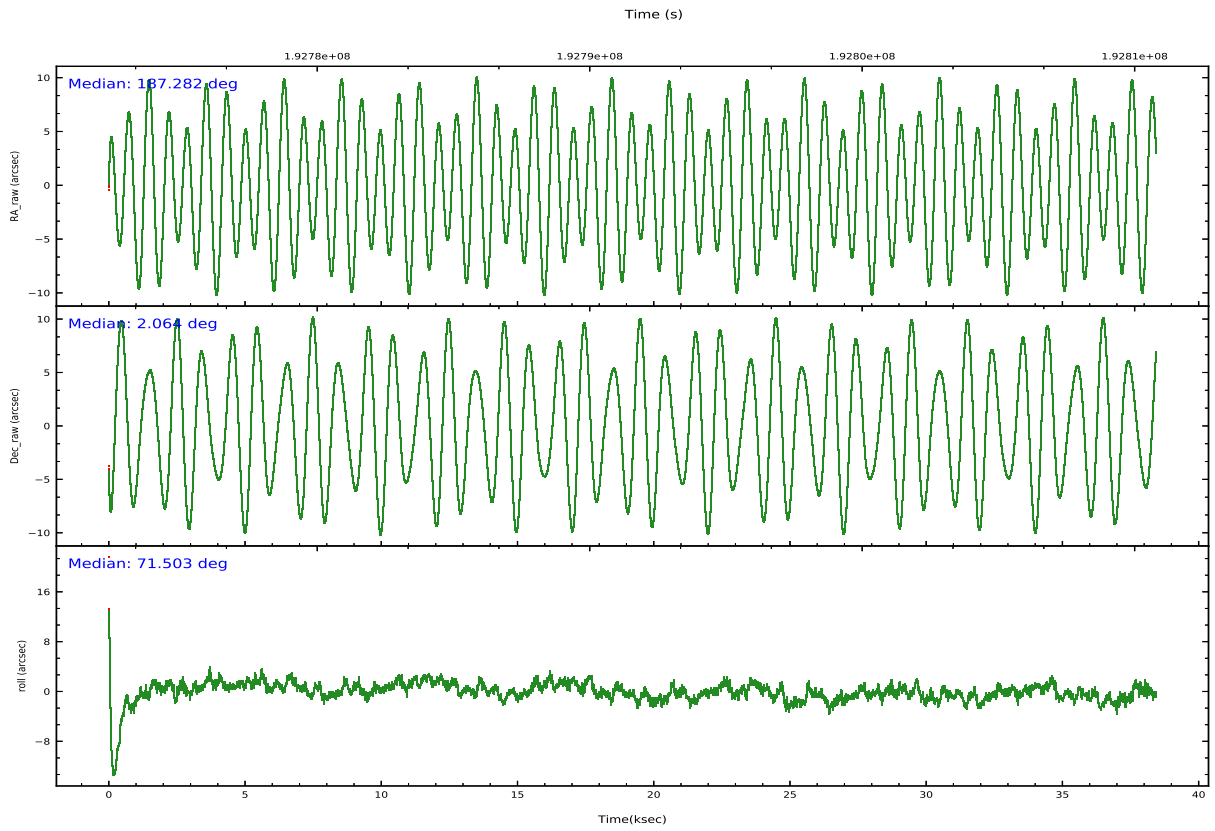
	<b>ccd 7</b>
grade 0 events	22808
	11%
grade 1 events	1860
	0%
grade 2 events	20940
	10%
grade 3 events	10333
	5%
grade 4 events	10030
	4%
grade 5 events	12477
	6%
grade 6 events	38892
	19%
grade 7 events	83643
	41%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	187.288020	187.28396305452	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	2.037206	2.0607903219616	Subarray start row	115	115
[deg] Pointing Roll	71.345300	71.502621666403	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-182.132523	-182.139514760308			
[mm] SIM translation stage offset	-8	-7.993007822699838			
[s] Observation start time (MET)	192772790.184000	192771702.97428			
Observation start date	2004-02-10T03:58:46	2004-02-10T03:41:42			
[s] Observation end time (MET)	192810788.184000	192811102.95101			
Observation end date	2004-02-10T14:32:04	2004-02-10T14:38:22			
Read mode	TIMED	TIMED			

## 2.3 Aspect



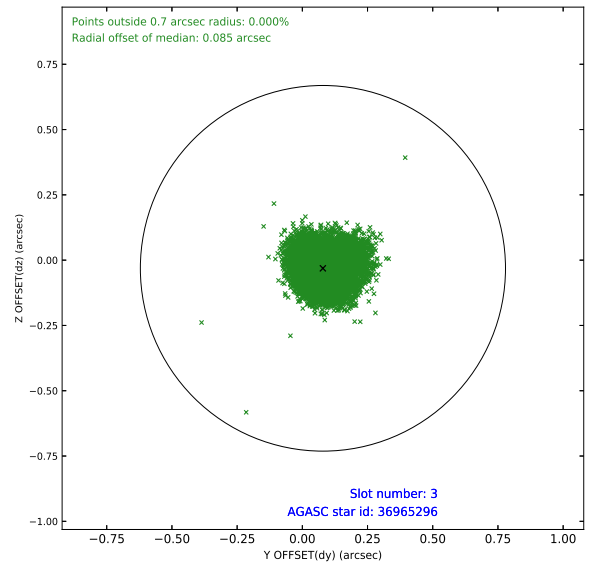
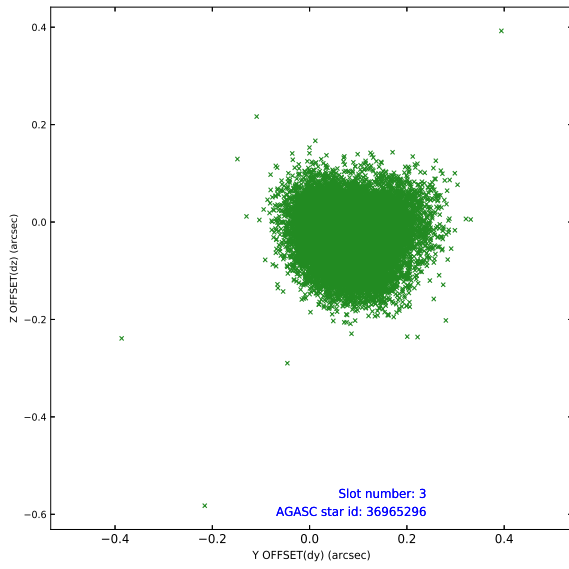


### Slot Statistics

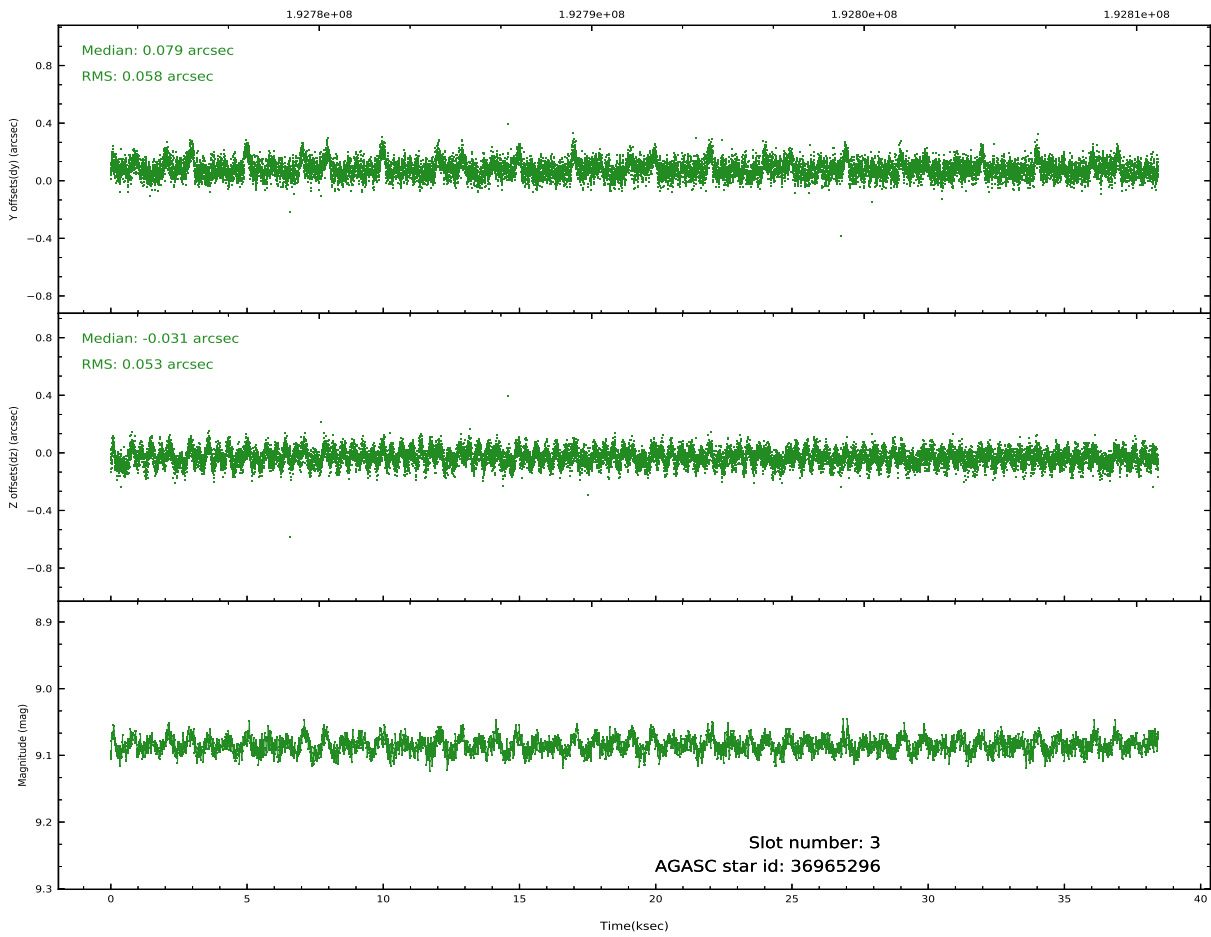
slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-1	7.18	9376	1.000	0.030	0.077	0.007	0.012	0.000000	0.000000	935.83	-1890
1	FID		ACIS-S-5	7.23	9376	1.000	-0.110	0.034	0.007	0.012	0.000000	0.000000	-1813.33	7
2	FID		ACIS-S-6	7.41	9376	1.000	0.059	-0.099	0.008	0.014	0.000000	0.000000	401.34	650
3	GUIDE	used	36965296	9.09	18739	1.000	0.079	-0.031	0.083	0.137	186.926292	1.837429	-1097.51	1003
4	GUIDE	used	36965816	9.25	18744	1.000	-0.002	-0.119	0.080	0.128	186.823353	1.771455	-1441.16	1278
5	GUIDE	used	37356352	7.70	18750	1.000	-0.344	0.045	0.050	0.083	187.433784	2.618460	2149.92	173
6	GUIDE	used	37883040	10.00	18736	1.000	0.018	0.239	0.143	0.230	187.575516	1.280402	-2250.01	-1851
7	GUIDE	used	36963280	9.61	18742	1.000	0.239	-0.131	0.112	0.185	186.985307	1.456816	-2327.79	363

## 2.4 Star Slots

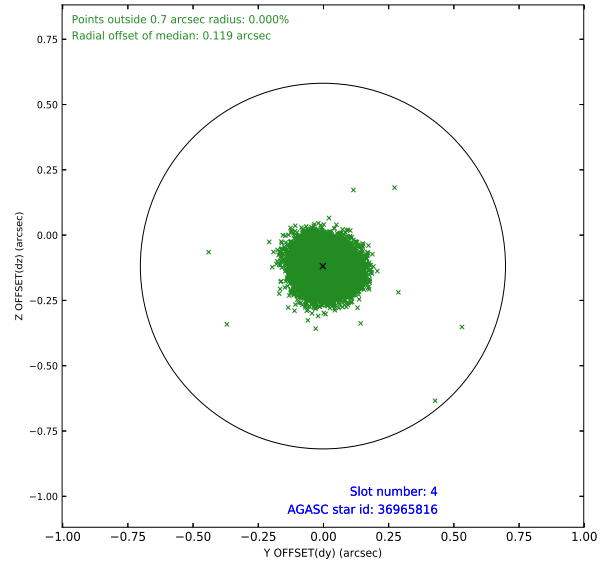
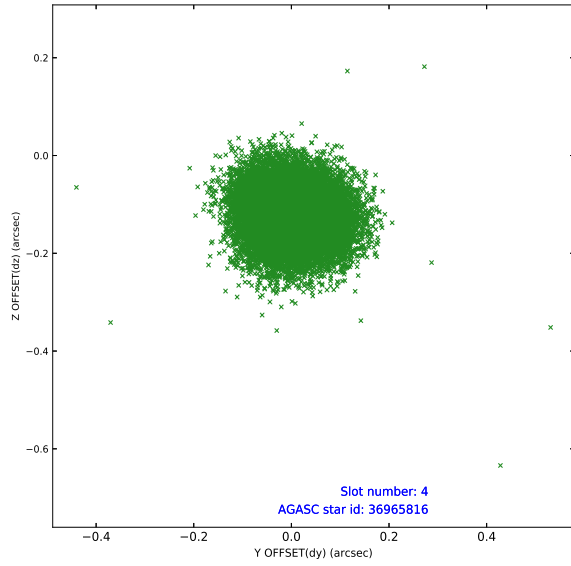
### 2.4.1 Slot 3



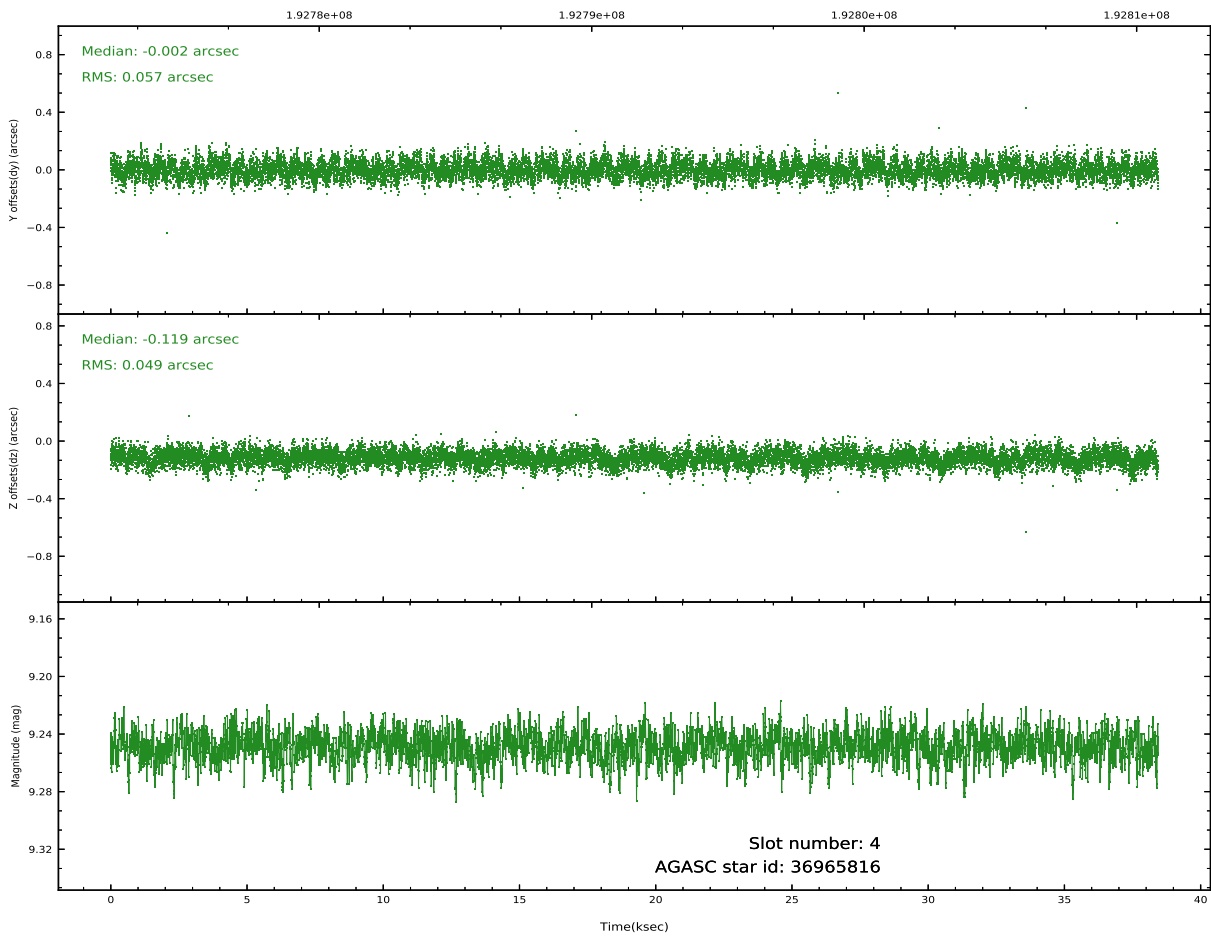
Time (s)



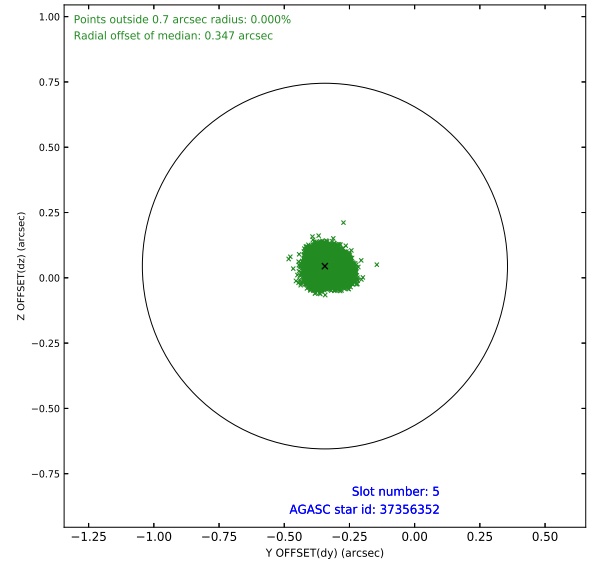
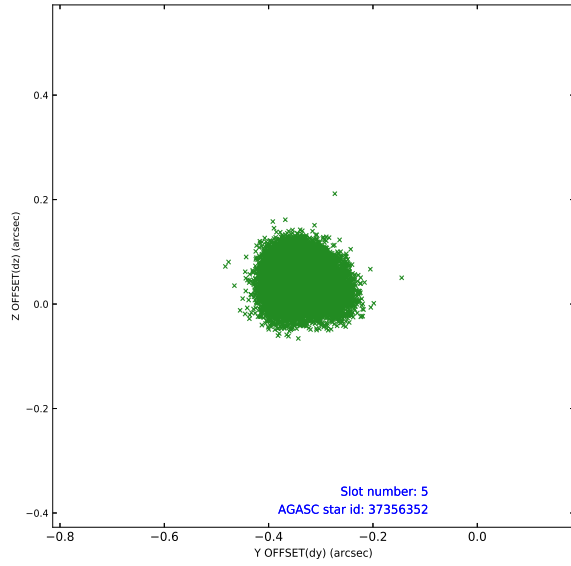
## 2.4.2 Slot 4



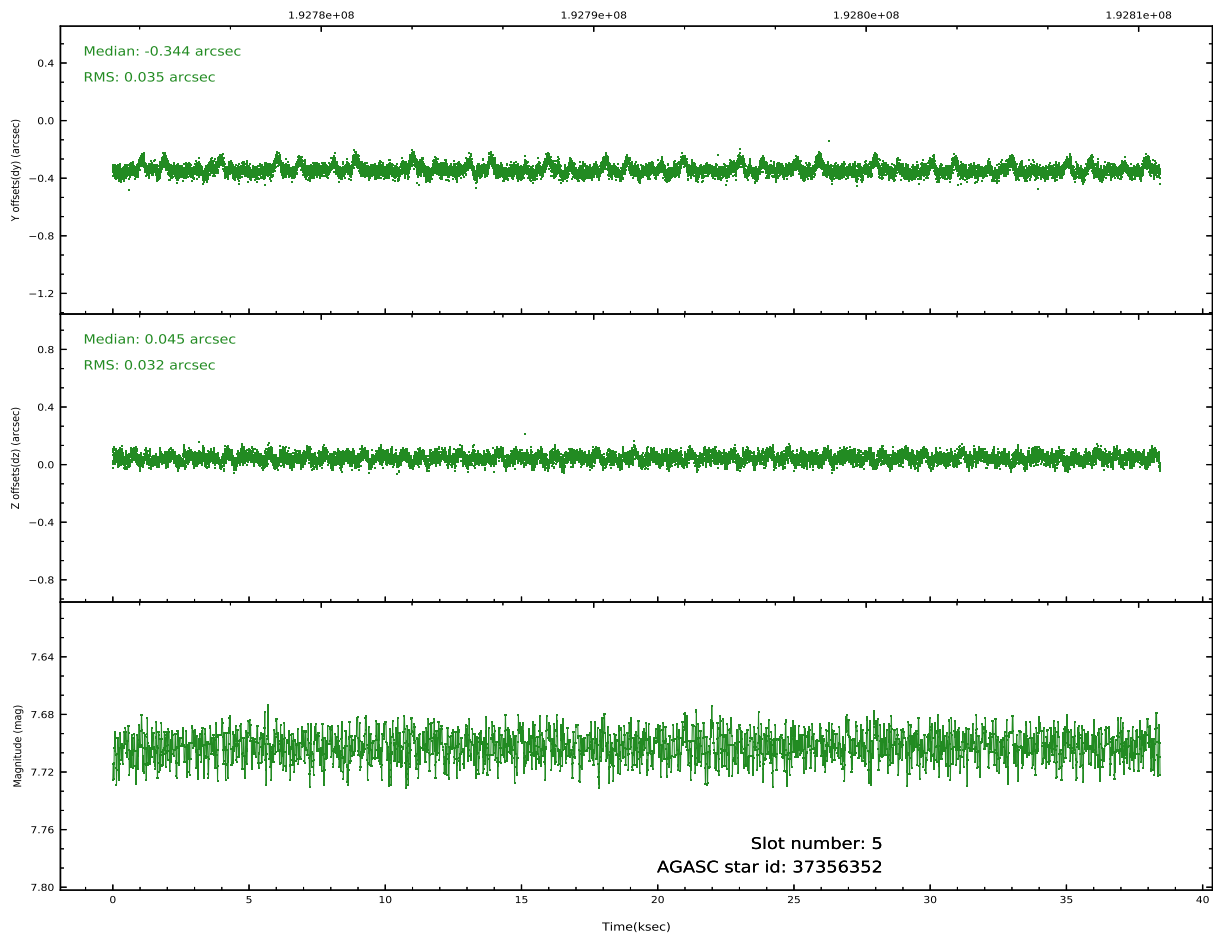
Time (s)



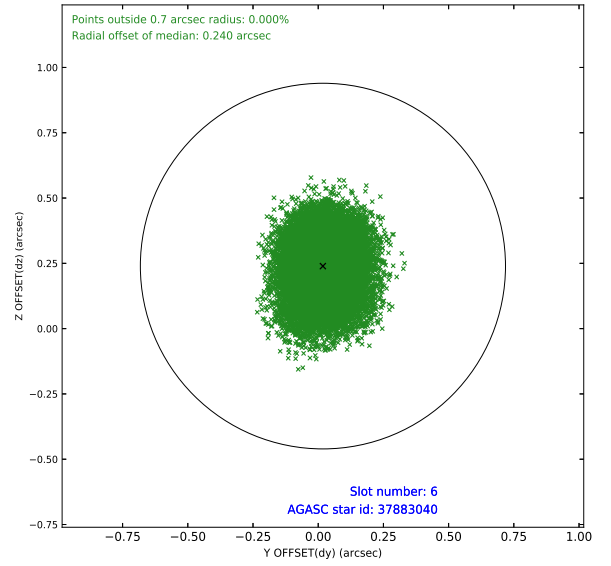
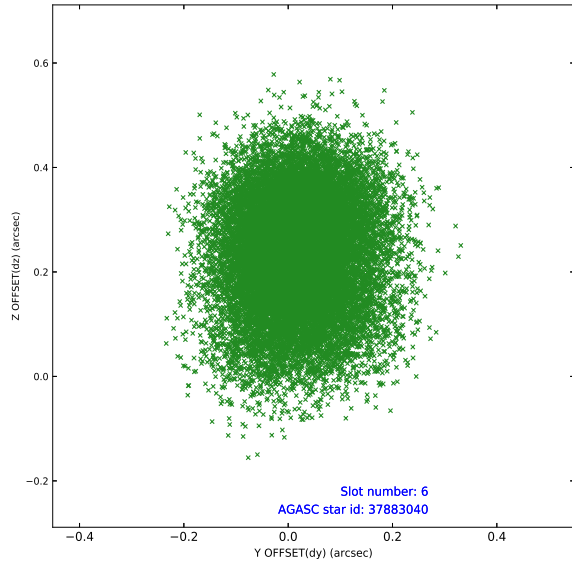
### 2.4.3 Slot 5



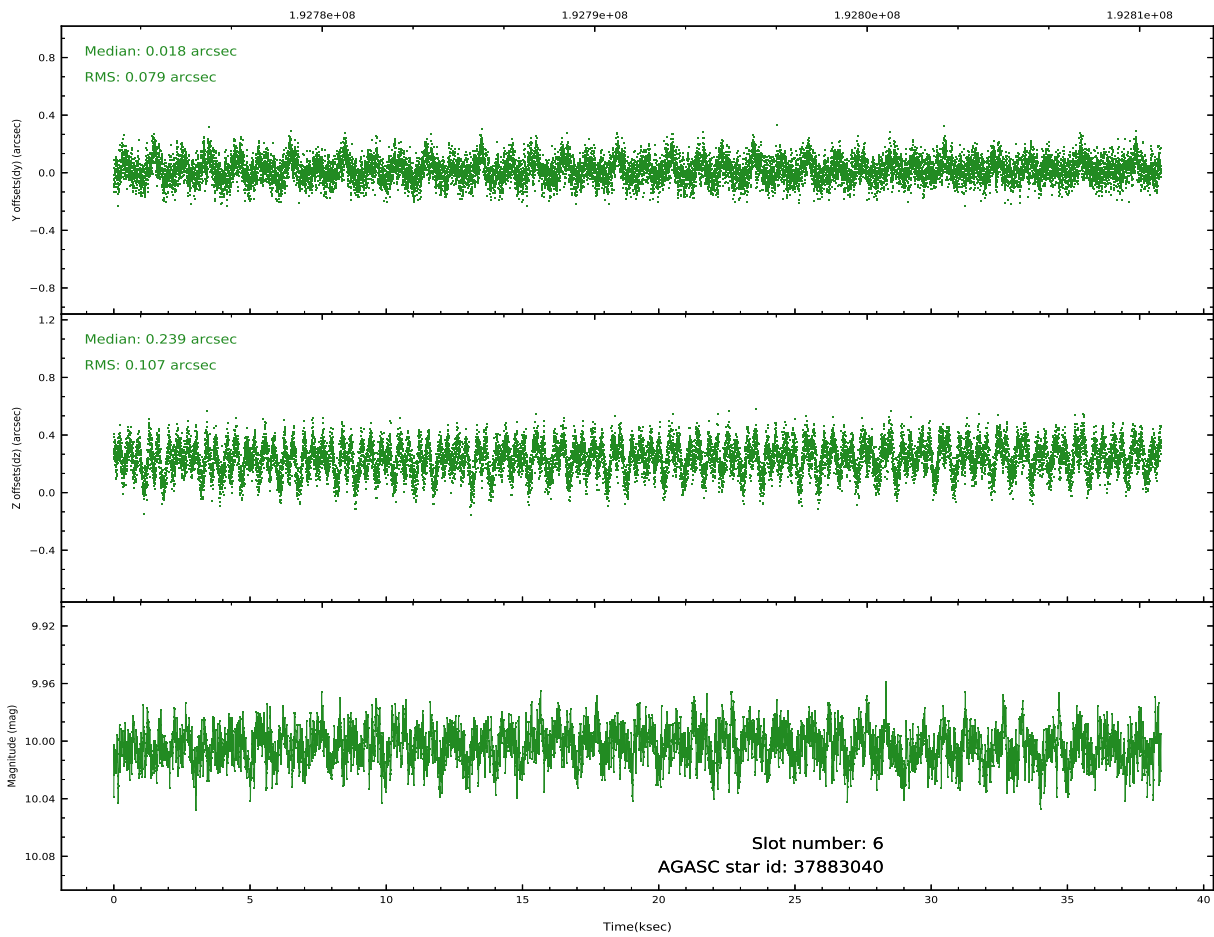
Time (s)



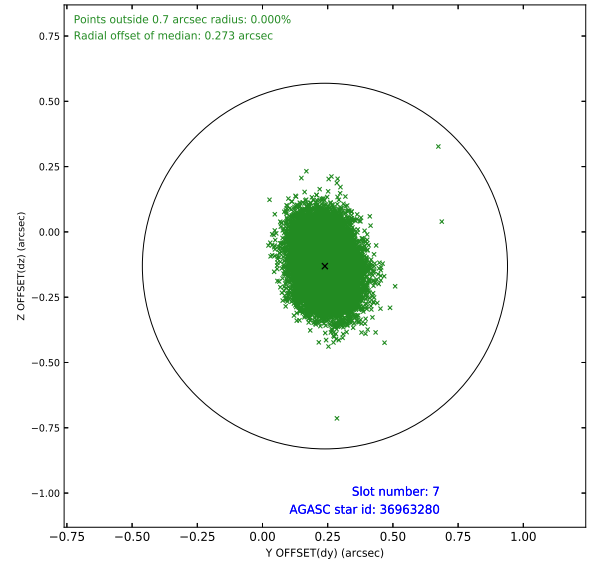
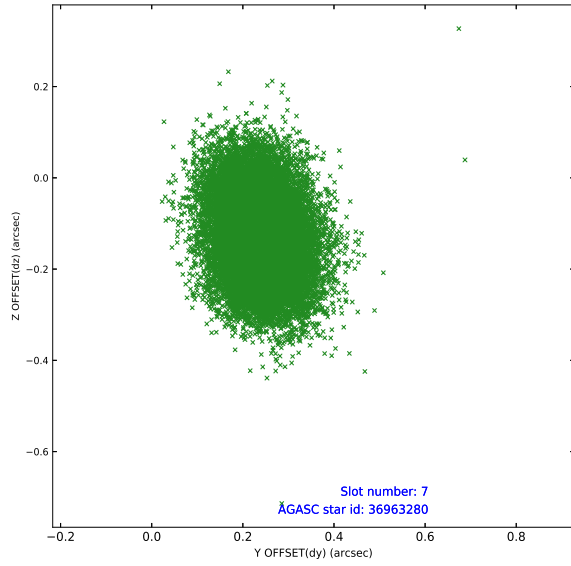
## 2.4.4 Slot 6



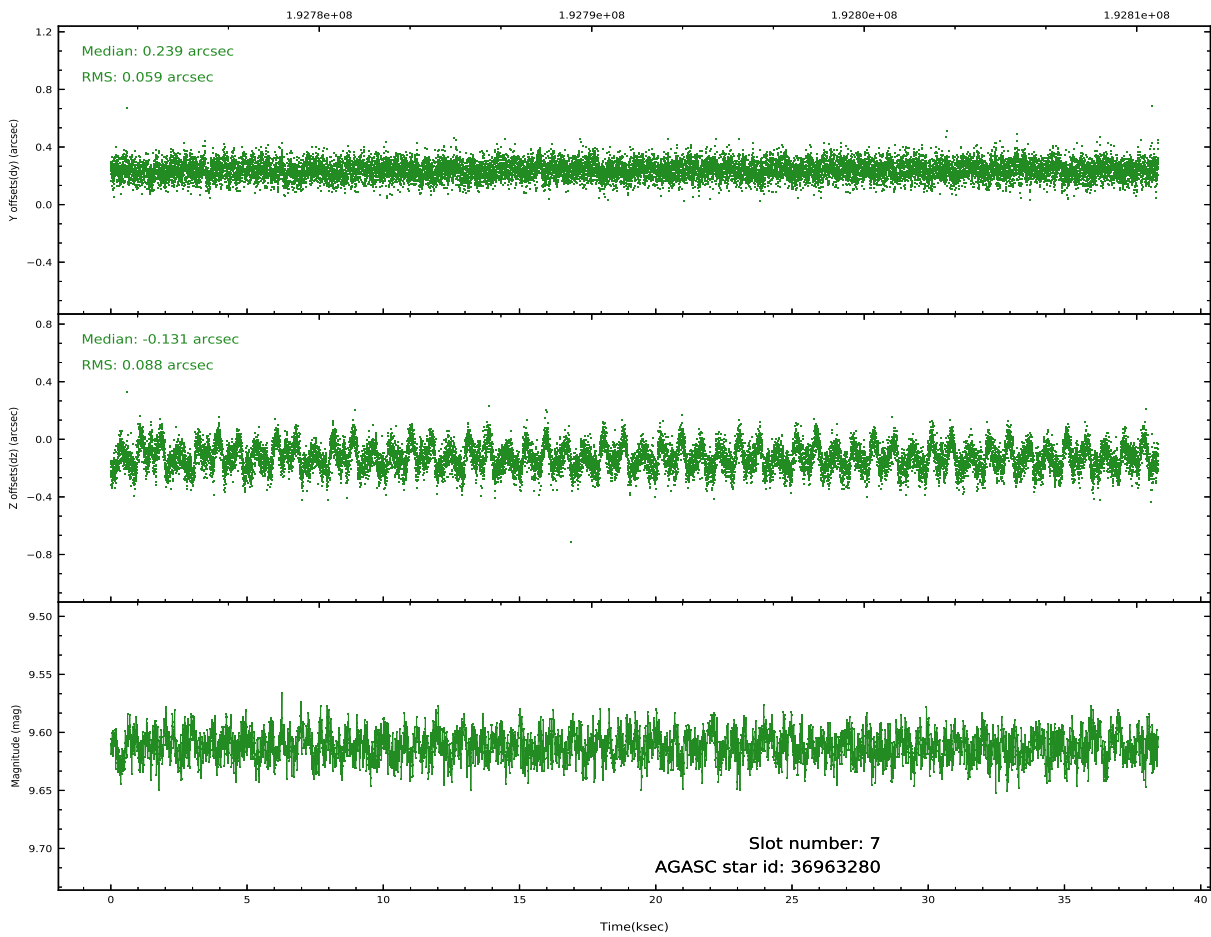
Time (s)



## 2.4.5 Slot 7

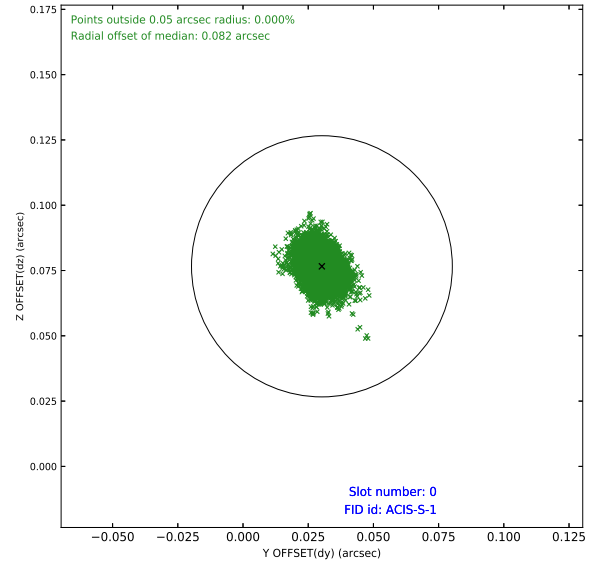
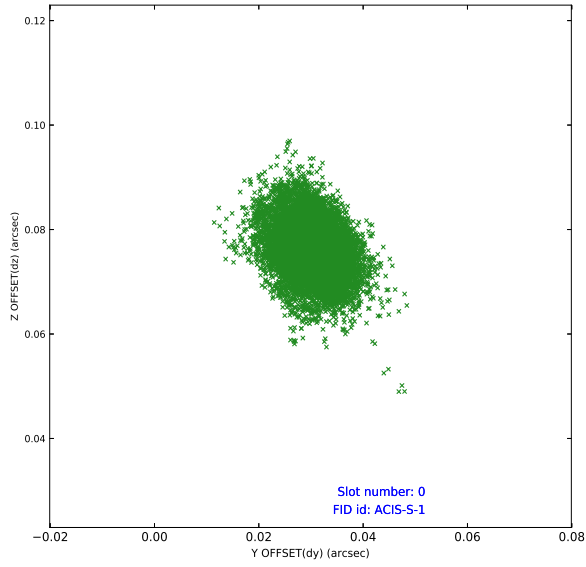


Time (s)

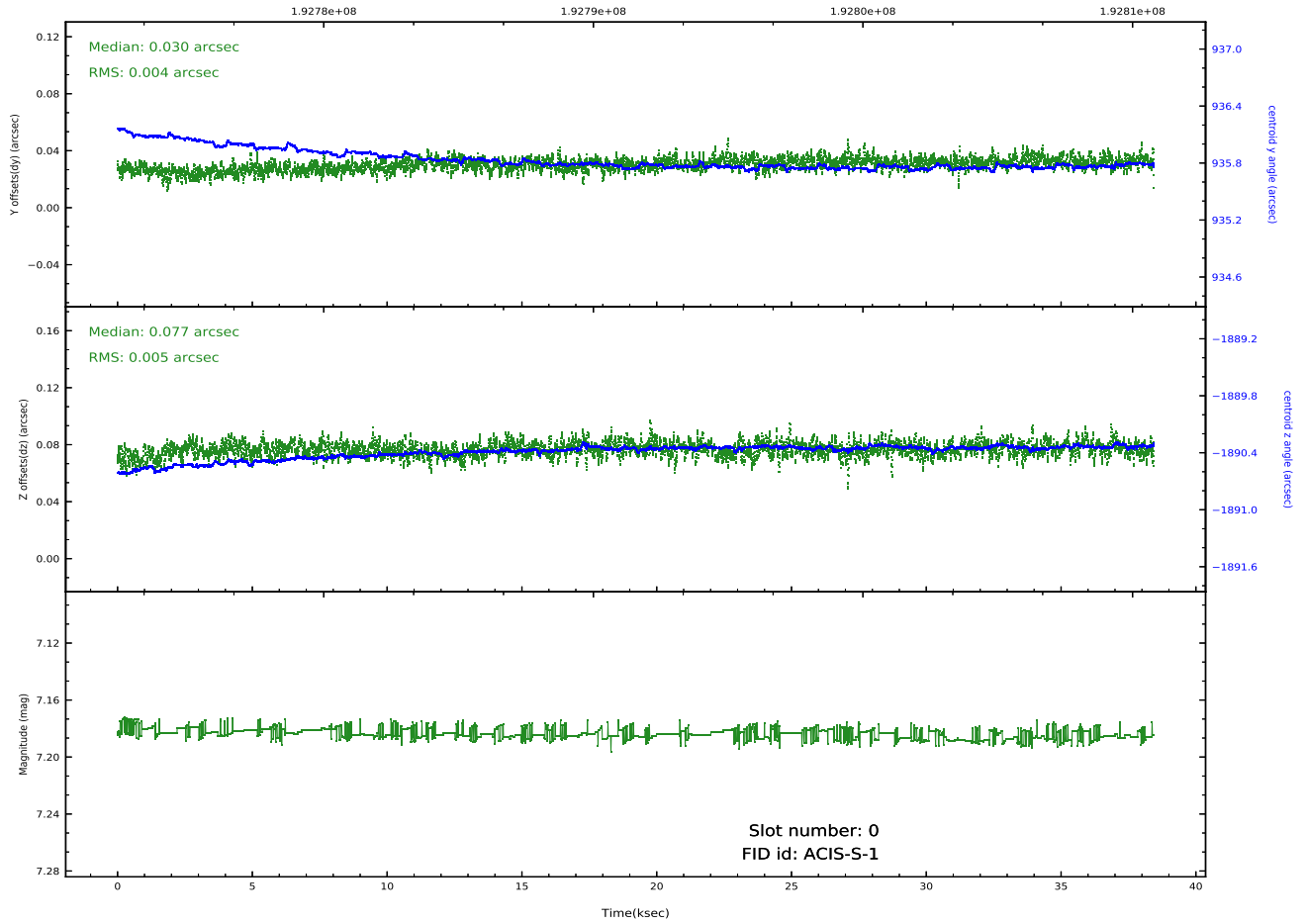


## 2.5 FID Slots

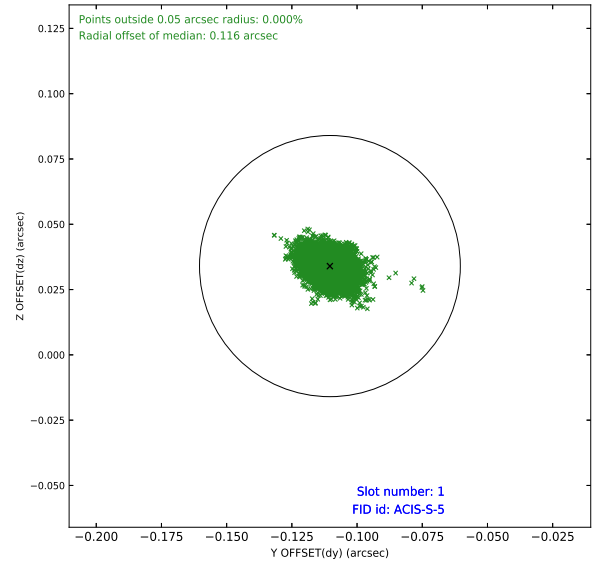
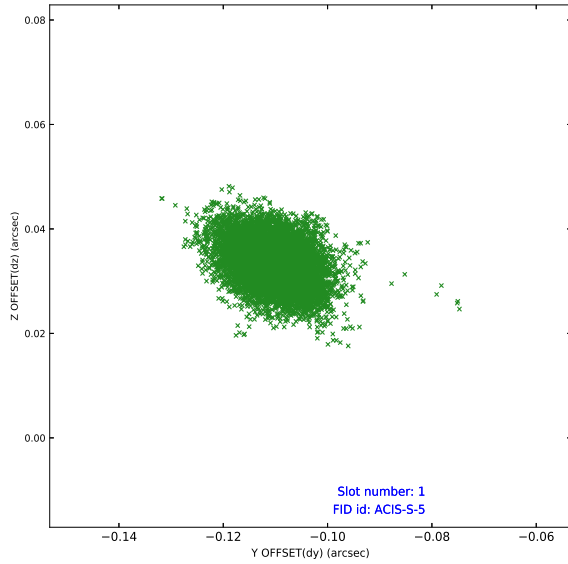
### 2.5.1 Slot 0



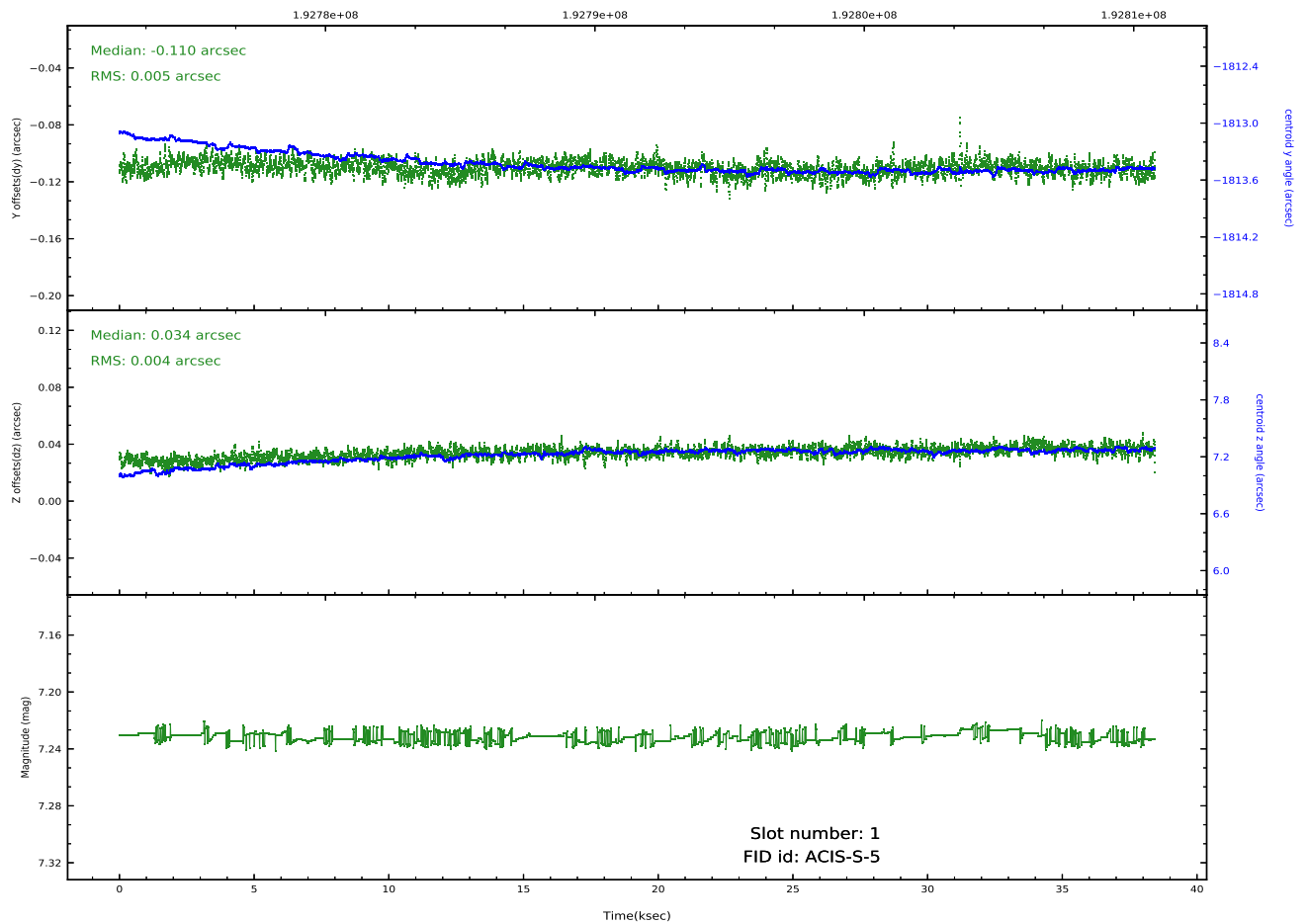
Time (s)



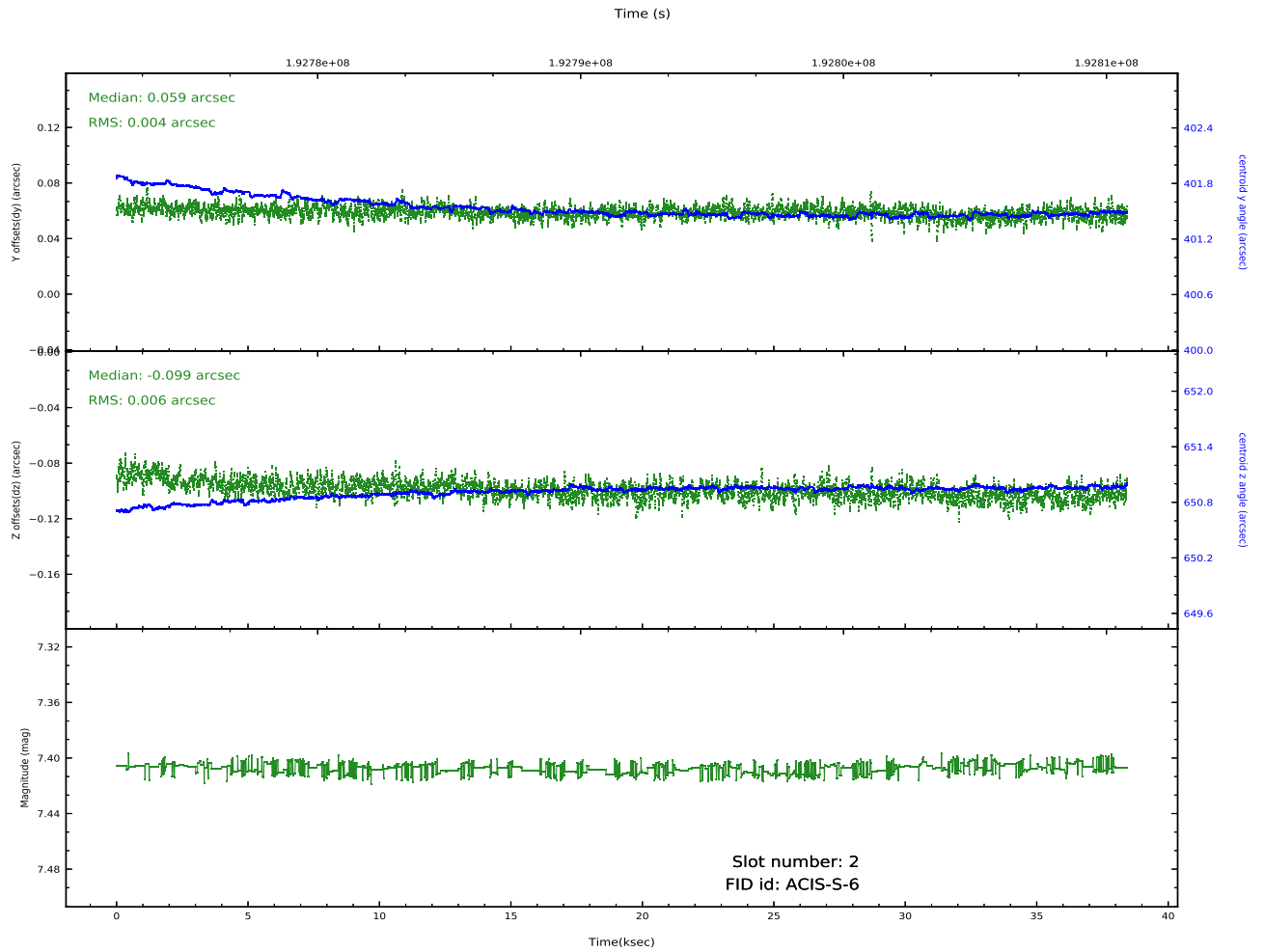
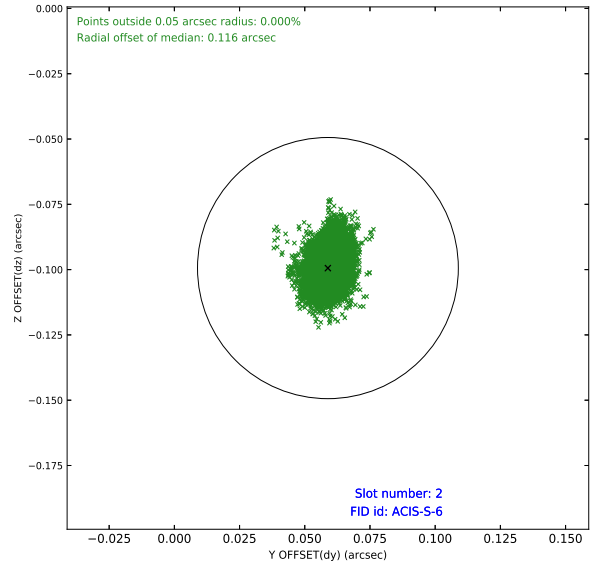
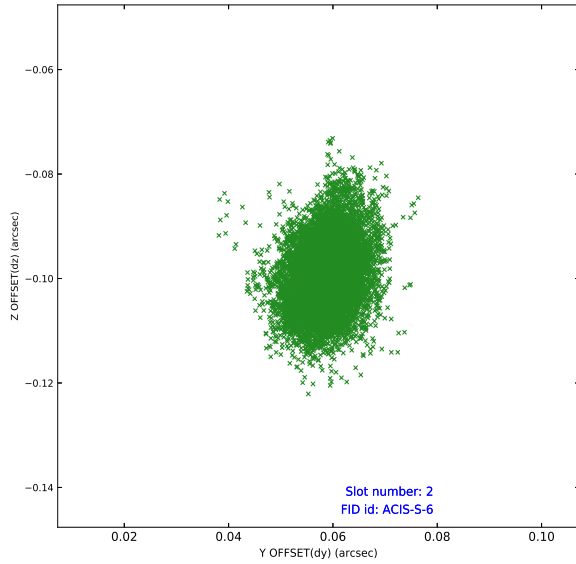
## 2.5.2 Slot 1



Time (s)



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.09.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	38.438

## A.2 Comments