

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 7112 - L2 Version 3  
Chandra X-Ray Center

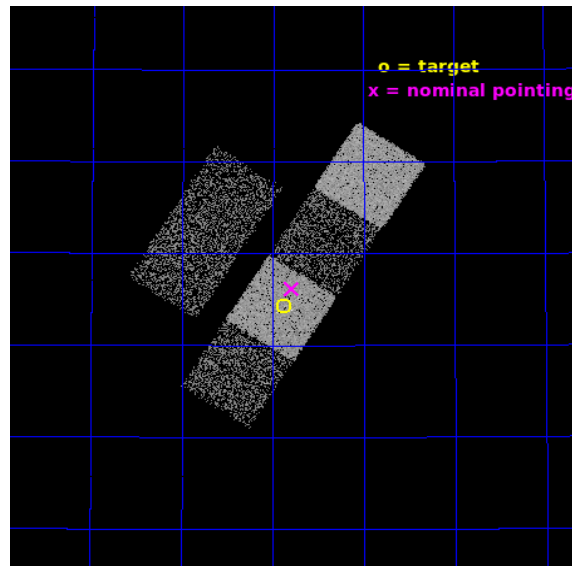
L2 Processing Date : Oct 12 2020

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# 1 Front

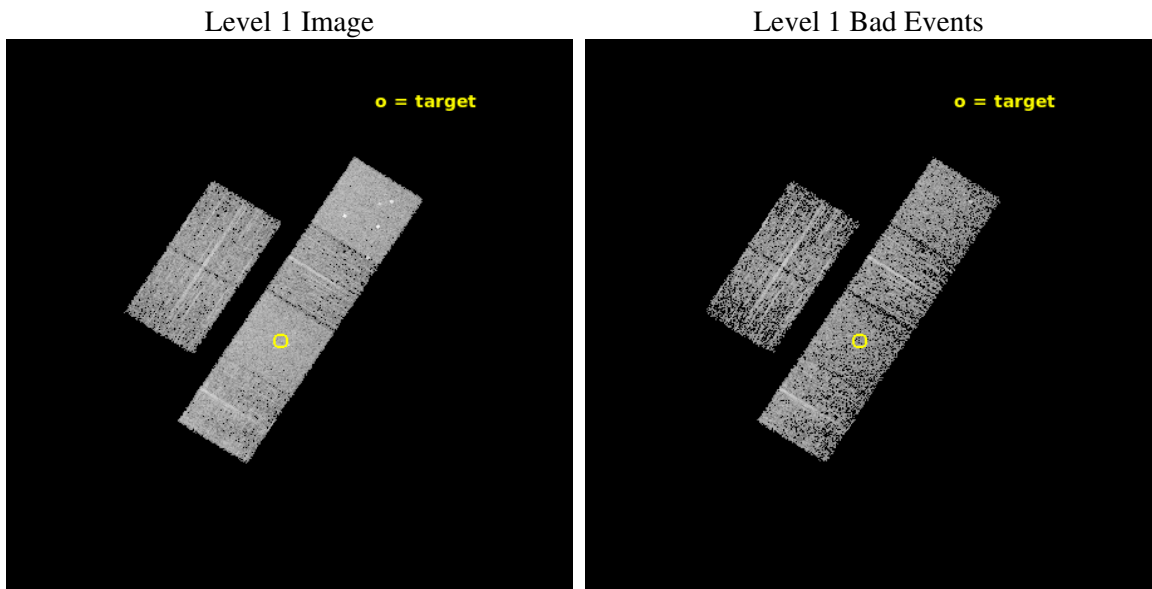
seq_num	600550	Sequence number
obs_id	7112	Observation id
title	A Complete Sample of ULX Host Galaxies	Proposal title
observer	Douglas Swartz	Principal investigator
object	NGC 2500	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	120.471667	Observer's specified target RA [deg]
dec_targ	50.737194	Observer's specified target Dec [deg]
ra_nom	120.44794636985	Nominal RA [deg]
dec_nom	50.769628066815	Nominal Dec [deg]
roll_nom	122.6601064803	Nominal Roll [deg]
revision	3	Processing version of data
ontime	2601.5999903083	Sum of GTIs [s]
livetime	2568.6569647356	Livetime [s]
ontime2	2601.5999903083	Sum of GTIs [s]
ontime3	2601.5999903083	Sum of GTIs [s]
ontime5	2601.5999903083	Sum of GTIs [s]
ontime6	2601.5999903083	Sum of GTIs [s]
ontime7	2601.5999903083	Sum of GTIs [s]
ontime8	2601.5999903083	Sum of GTIs [s]
l2events	33992	Number of level 2 events



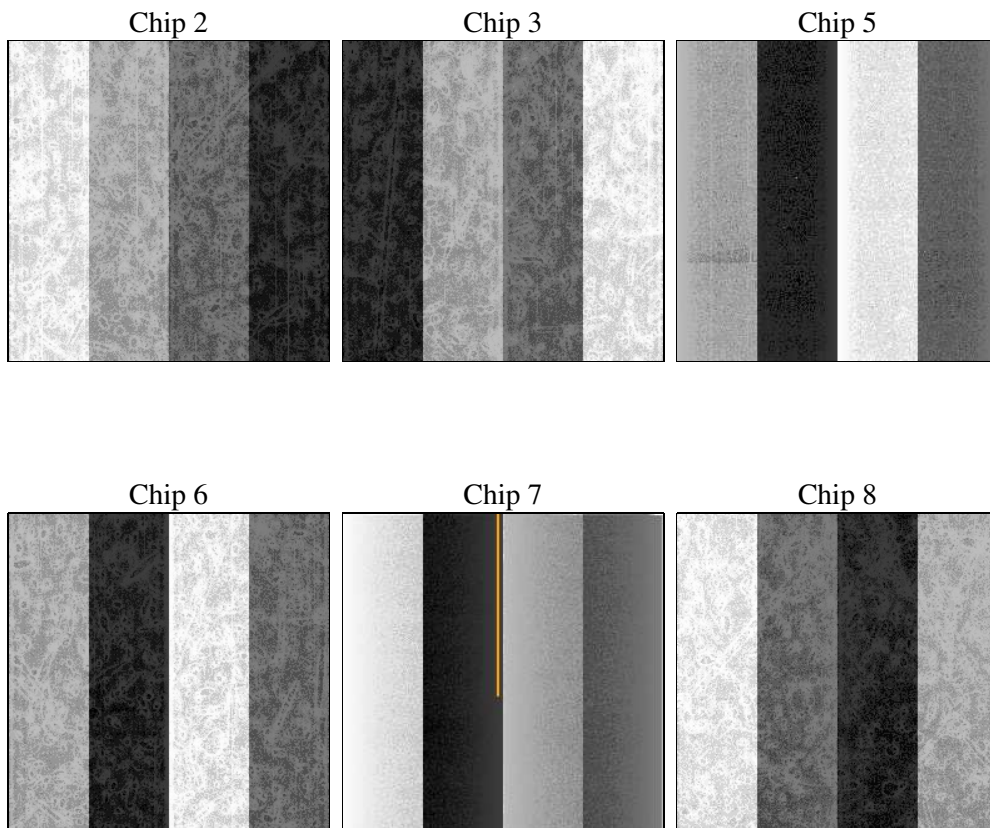
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2450.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	2601.5999903083	Sum of GTIs [s]
caldsver	4.9.2	&#160	ontime2	2601.5999903083	Sum of GTIs [s]
date	2020-10-12T05:40:57	Date and time of file creation	ontime3	2601.5999903083	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	2601.5999903083	Sum of GTIs [s]
			ontime6	2601.5999903083	Sum of GTIs [s]
			ontime7	2601.5999903083	Sum of GTIs [s]
			ontime8	2601.5999903083	Sum of GTIs [s]
			l1events	185064	Number of level 1 events

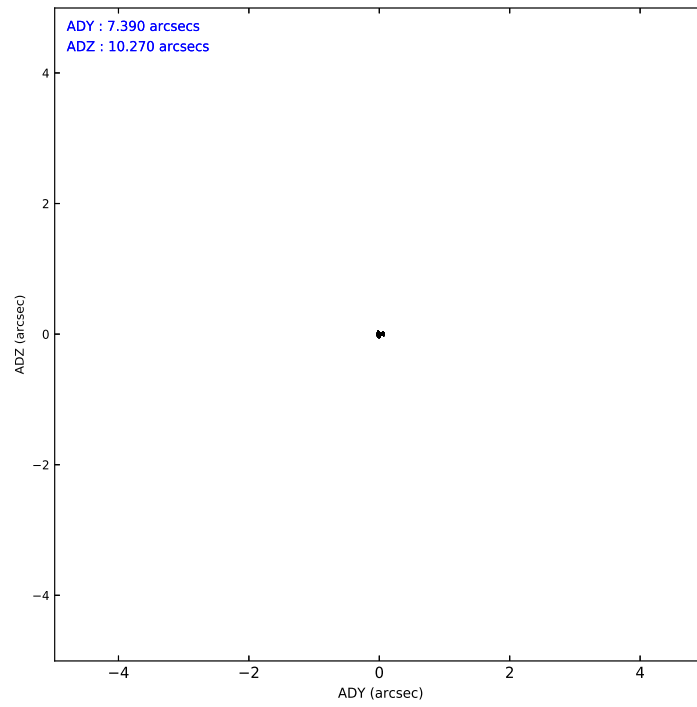
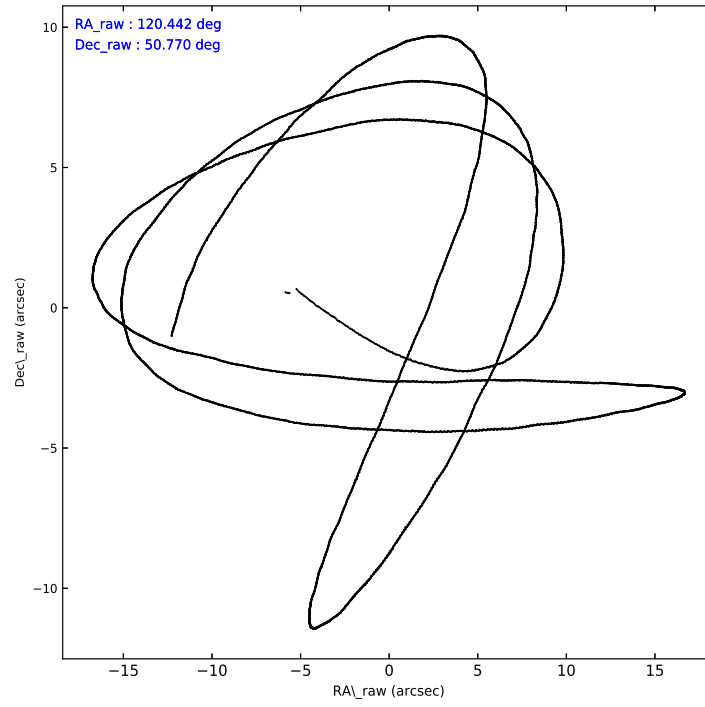
### 2.1.4 Events

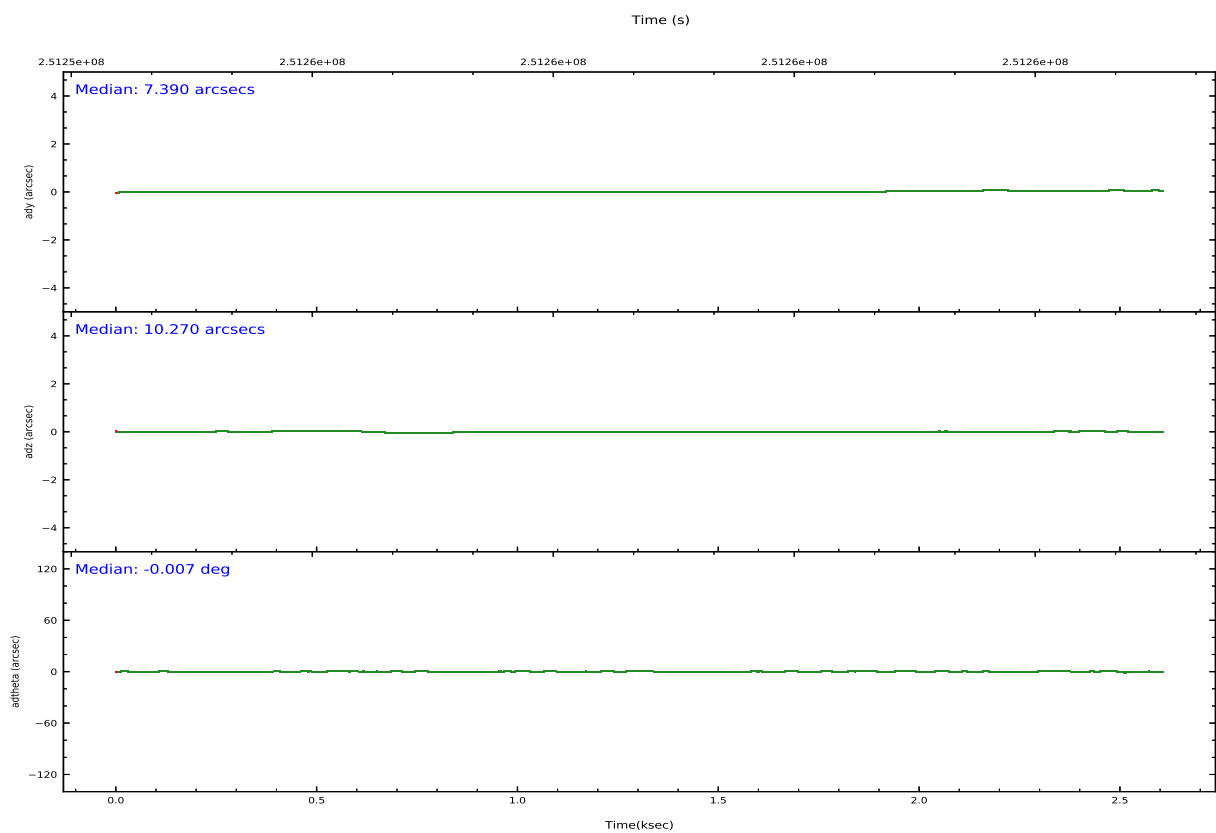
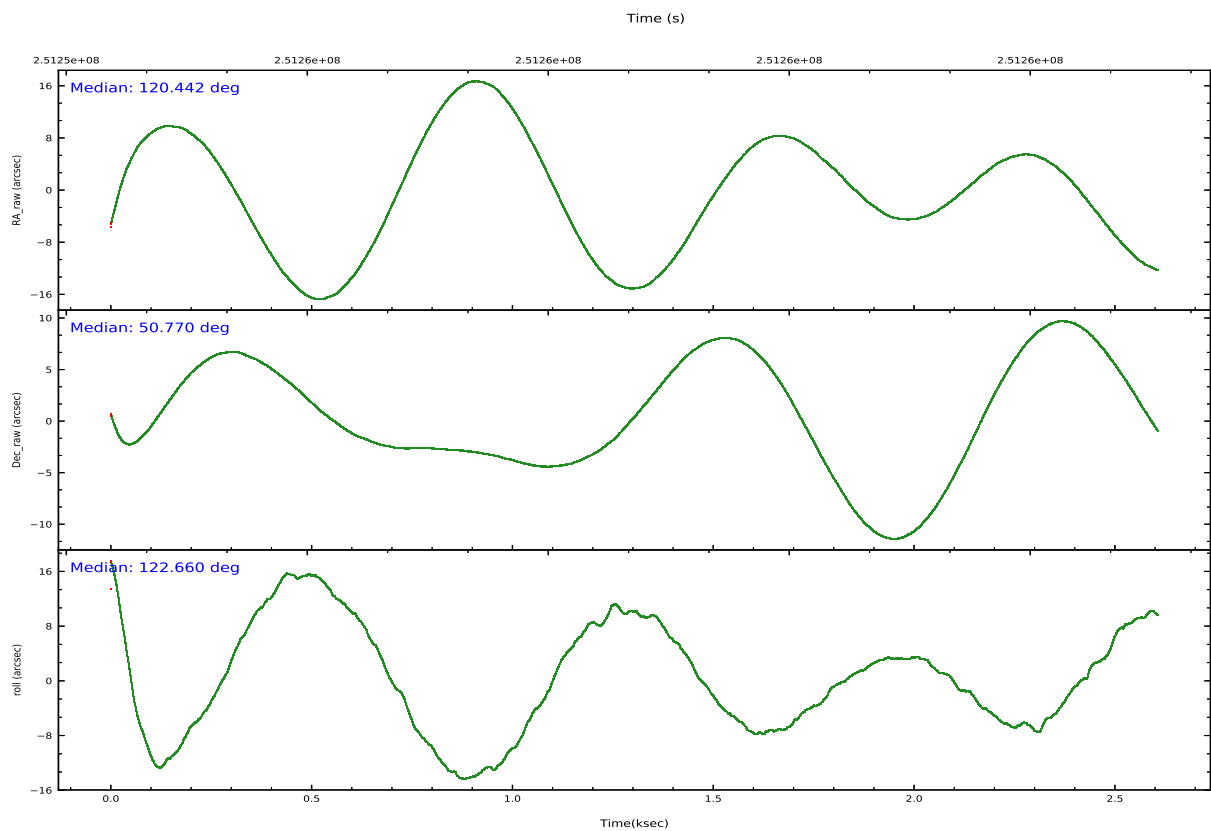
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	25841	25355	40506	25968	35429	31965	grade 0 events	1289	1328	2954	1151	1352	2166
rejected events	23433	22840	24852	23607	23238	26024		4%	5%	7%	4%	3%	6%
rejected %	90%	90%	61%	90%	65%	81%	grade 1 events	19	9	67	14	39	25
								0%	0%	0%	0%	0%	0%
							grade 2 events	622	581	5404	640	2984	1644
								2%	2%	13%	2%	8%	5%
							grade 3 events	286	321	669	269	1329	715
								1%	1%	1%	1%	3%	2%
							grade 4 events	251	297	622	266	1277	698
								0%	1%	1%	1%	3%	2%
							grade 5 events	920	1146	2897	1230	3336	1622
								3%	4%	7%	4%	9%	5%
							grade 6 events	500	497	9418	593	7946	1875
								1%	1%	23%	2%	22%	5%
							grade 7 events	21954	21176	18475	21805	17166	23220
								84%	83%	45%	83%	48%	72%

## 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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	120.480671	120.44794636985	Subarray requested	NONE	NONE
[deg] Pointing Dec	50.757419	50.769628066815	Alternating exposures requested	N	N
[deg] Pointing Roll	122.469723	122.6601064803	[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)	251254870.184000	251253472.16005			
Observation start date	2005-12-18T01:00:06	2005-12-18T00:37:52			
[s] Observation end time (MET)	251257320.184000	251258755.0103			
Observation end date	2005-12-18T01:40:56	2005-12-18T02:05:55			
Read mode	TIMED	TIMED			

## 2.3 Aspect





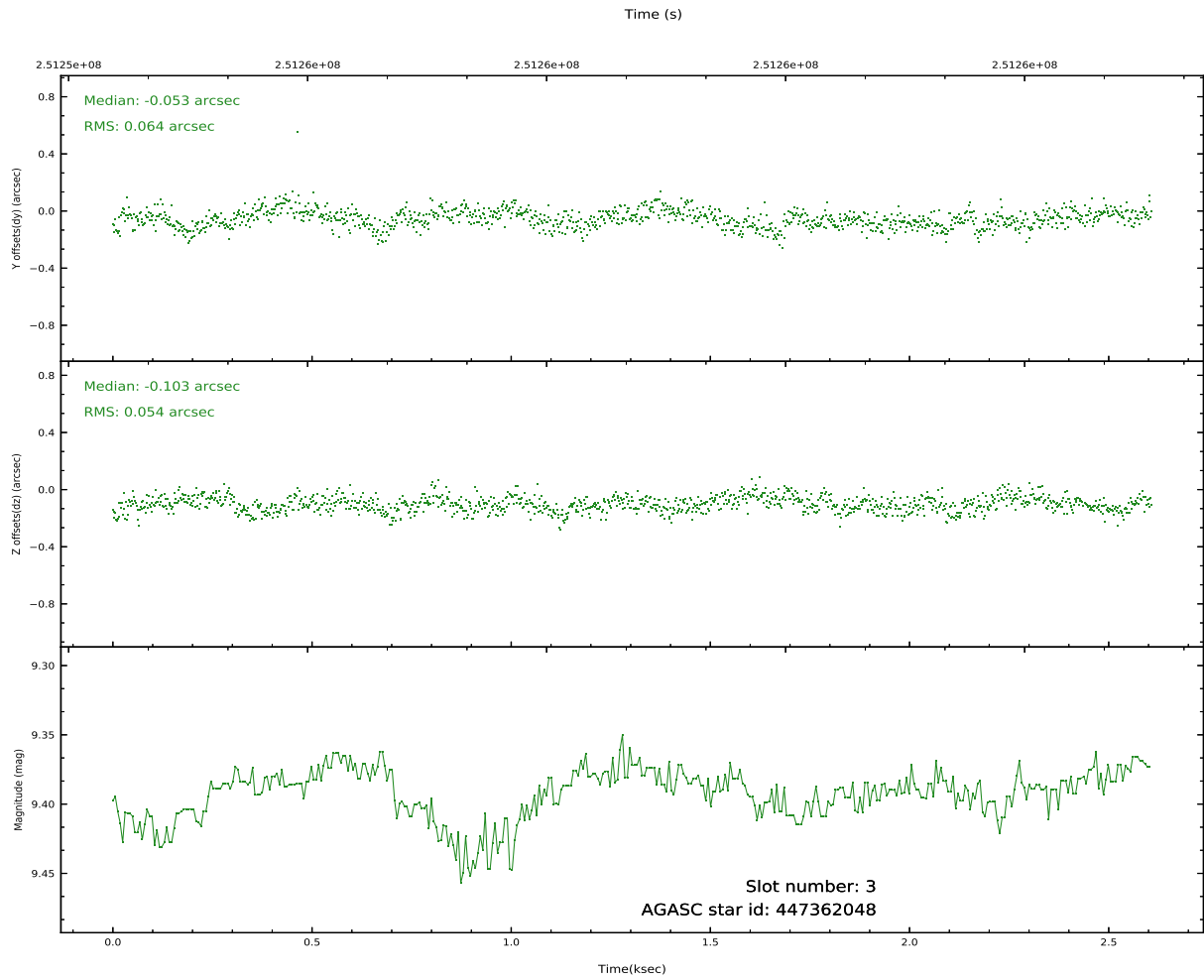
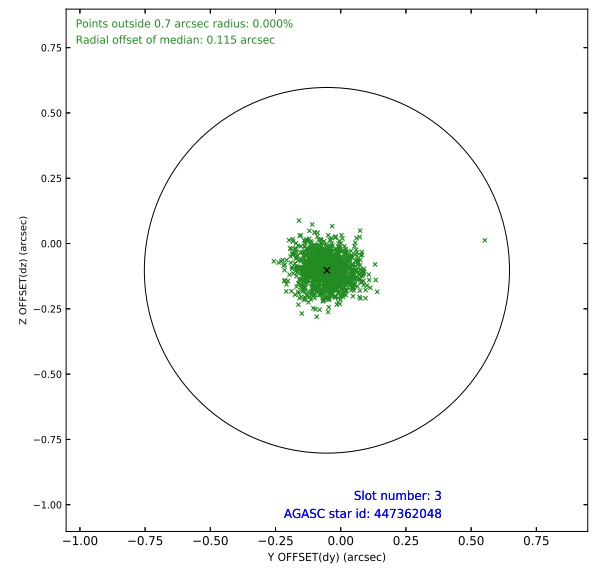
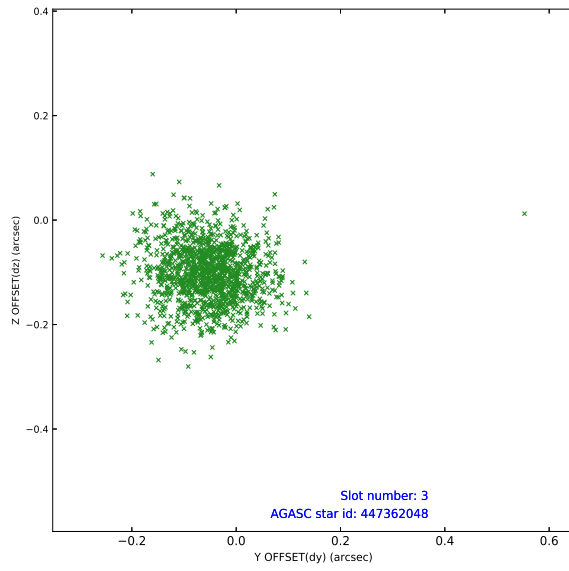
Slot Statistics

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	637	1.000	-0.078	-0.056	0.006	0.010	0.000000	0.000000	-760.16	-1731
1	FID		ACIS-S-4	7.21	637	1.000	0.161	0.052	0.006	0.010	0.000000	0.000000	2152.15	174
2	FID		ACIS-S-5	7.24	637	1.000	-0.113	0.012	0.006	0.012	0.000000	0.000000	-1809.94	170
3	GUIDE	used	447362048	9.39	1272	1.000	-0.053	-0.103	0.087	0.146	119.863178	51.127136	1876.26	459
4	GUIDE	used	447364024	8.76	1273	1.000	-0.135	-0.045	0.078	0.124	119.751383	51.039554	1750.78	844
5	GUIDE	used	447487200	8.82	1273	1.000	0.112	0.041	0.089	0.138	121.172966	50.935392	-295.47	-1671
6	GUIDE	used	447491152	8.70	1273	1.000	0.094	0.071	0.065	0.109	121.175410	50.445406	-1797.07	-745
7	GUIDE	used	447494824	9.18	1269	1.000	-0.012	0.037	0.093	0.142	120.121283	50.665958	162.14	867

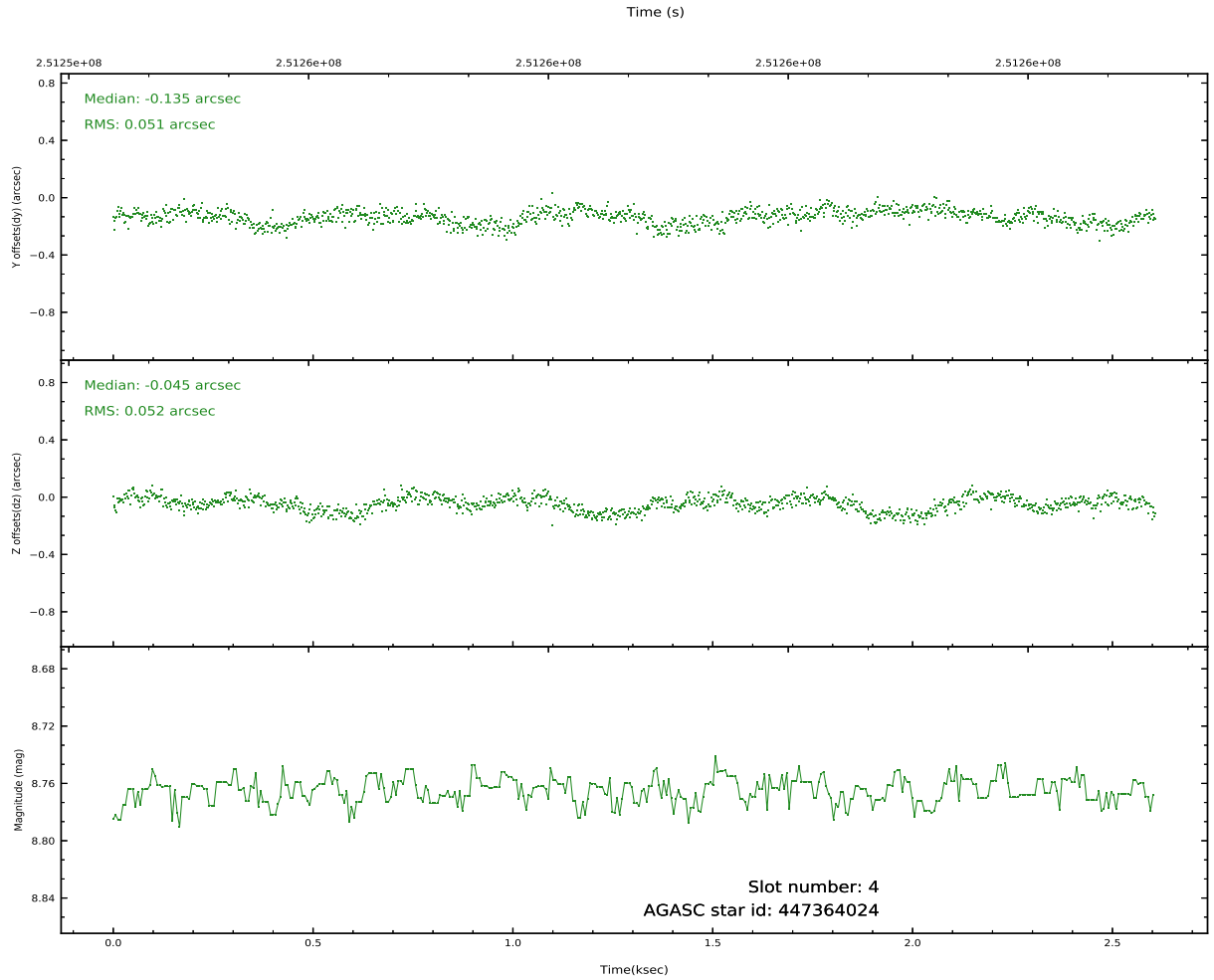
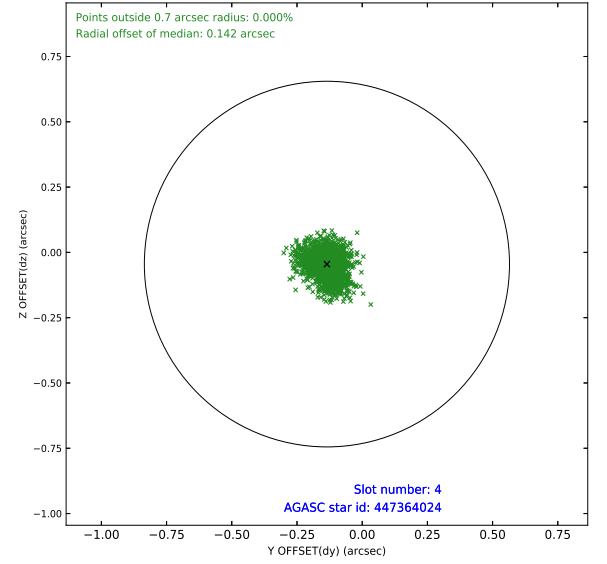
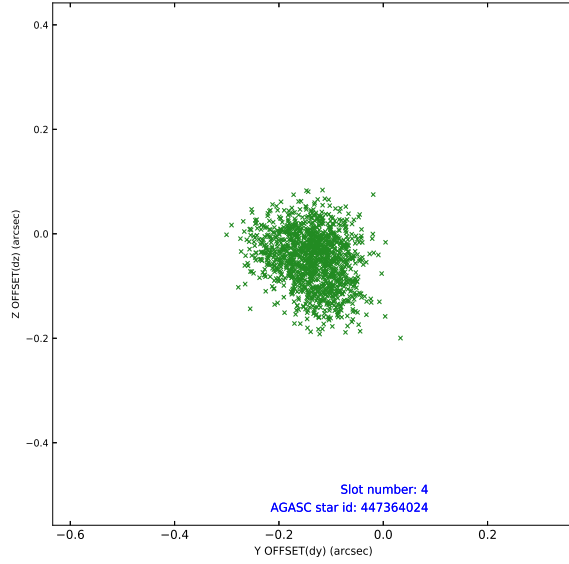


## 2.4 Star Slots

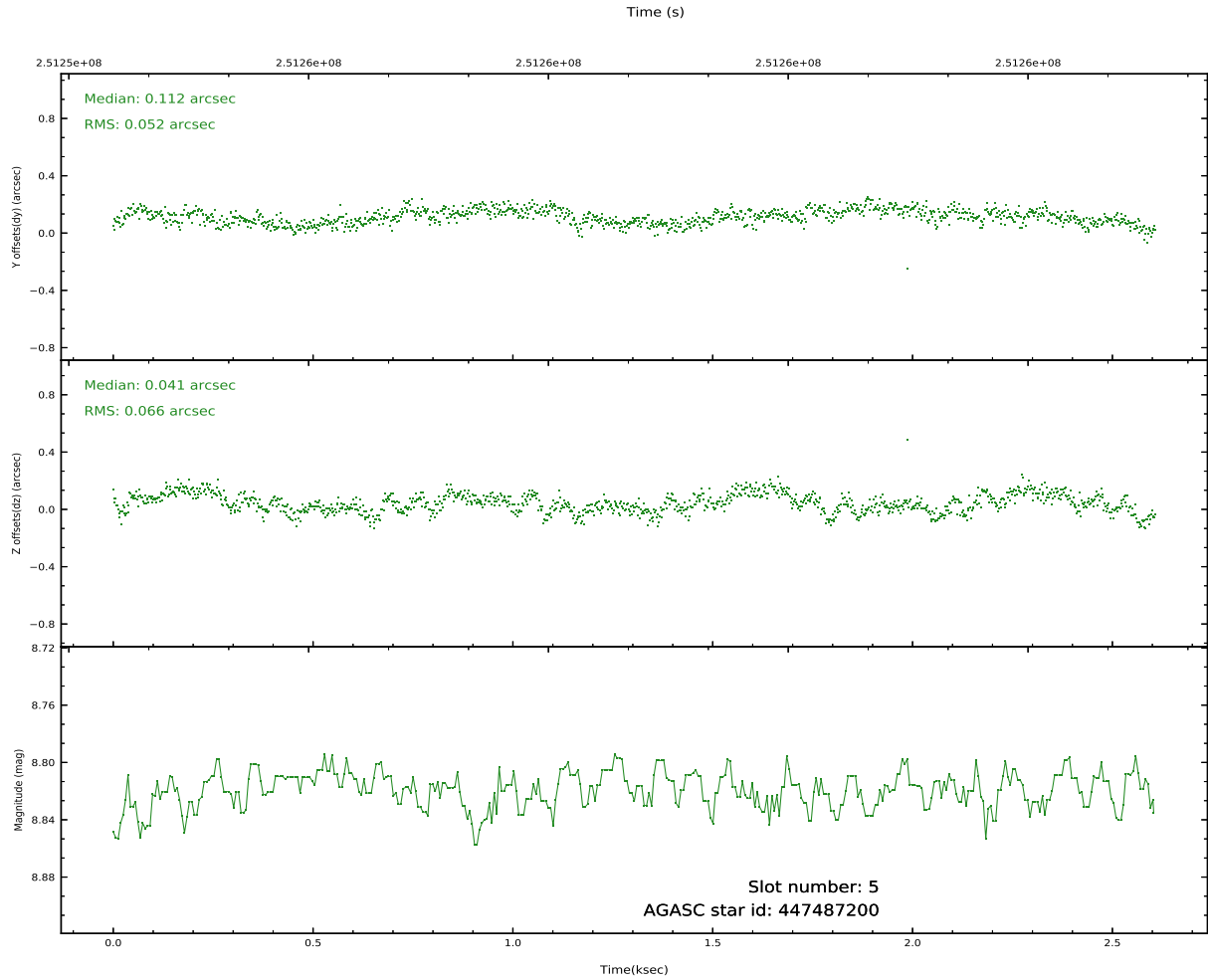
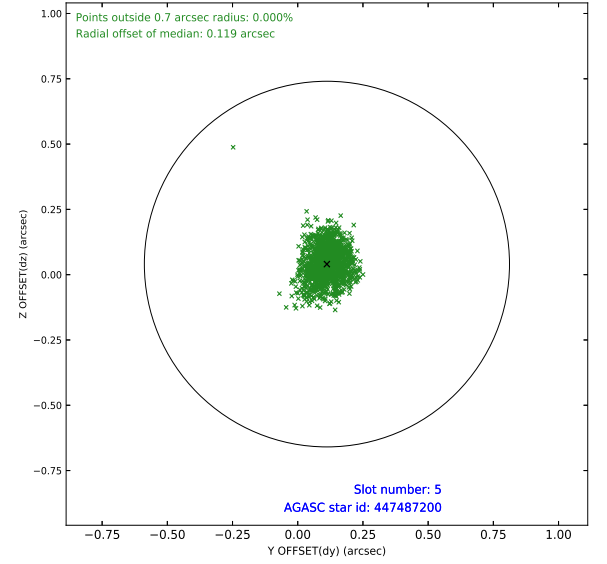
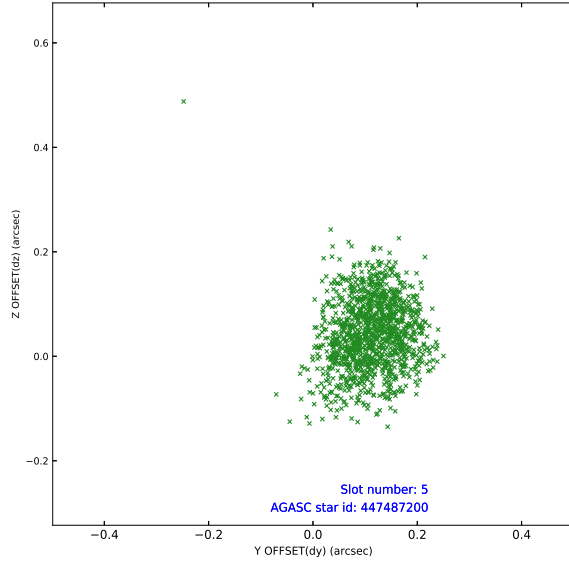
### 2.4.1 Slot 3



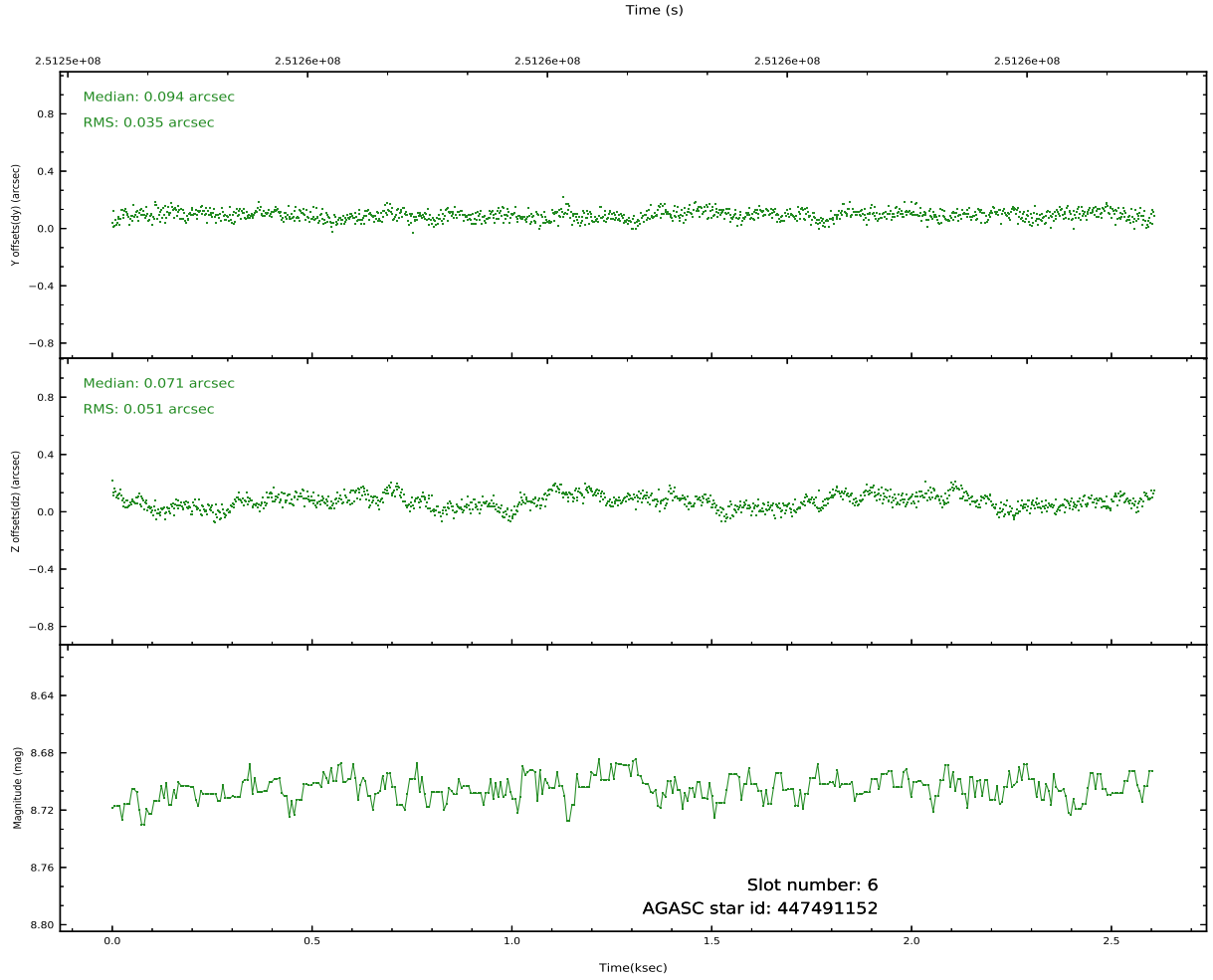
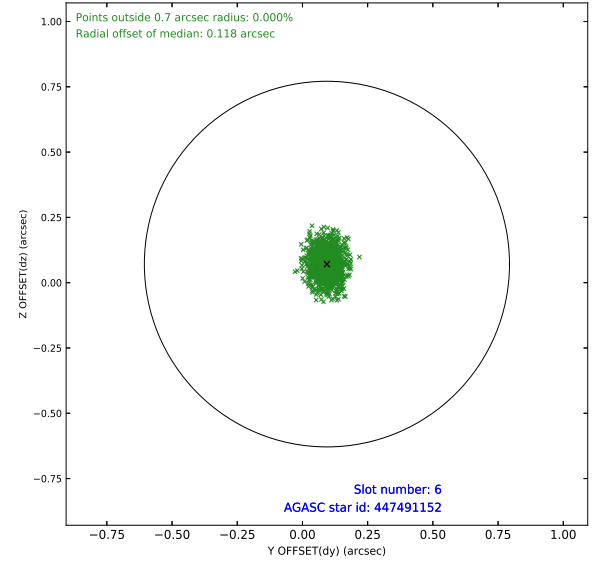
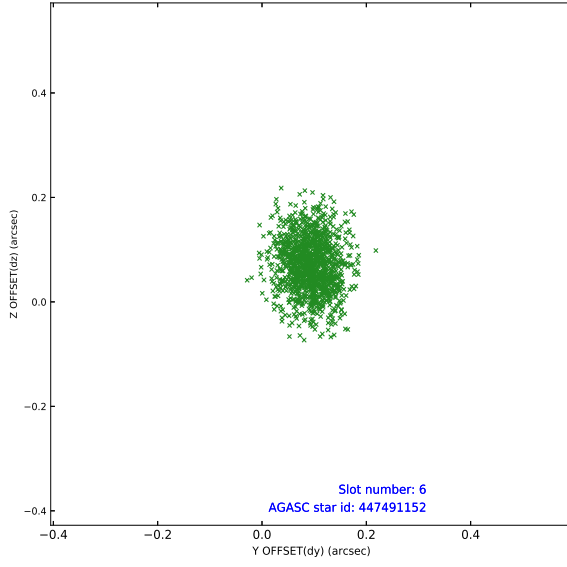
## 2.4.2 Slot 4



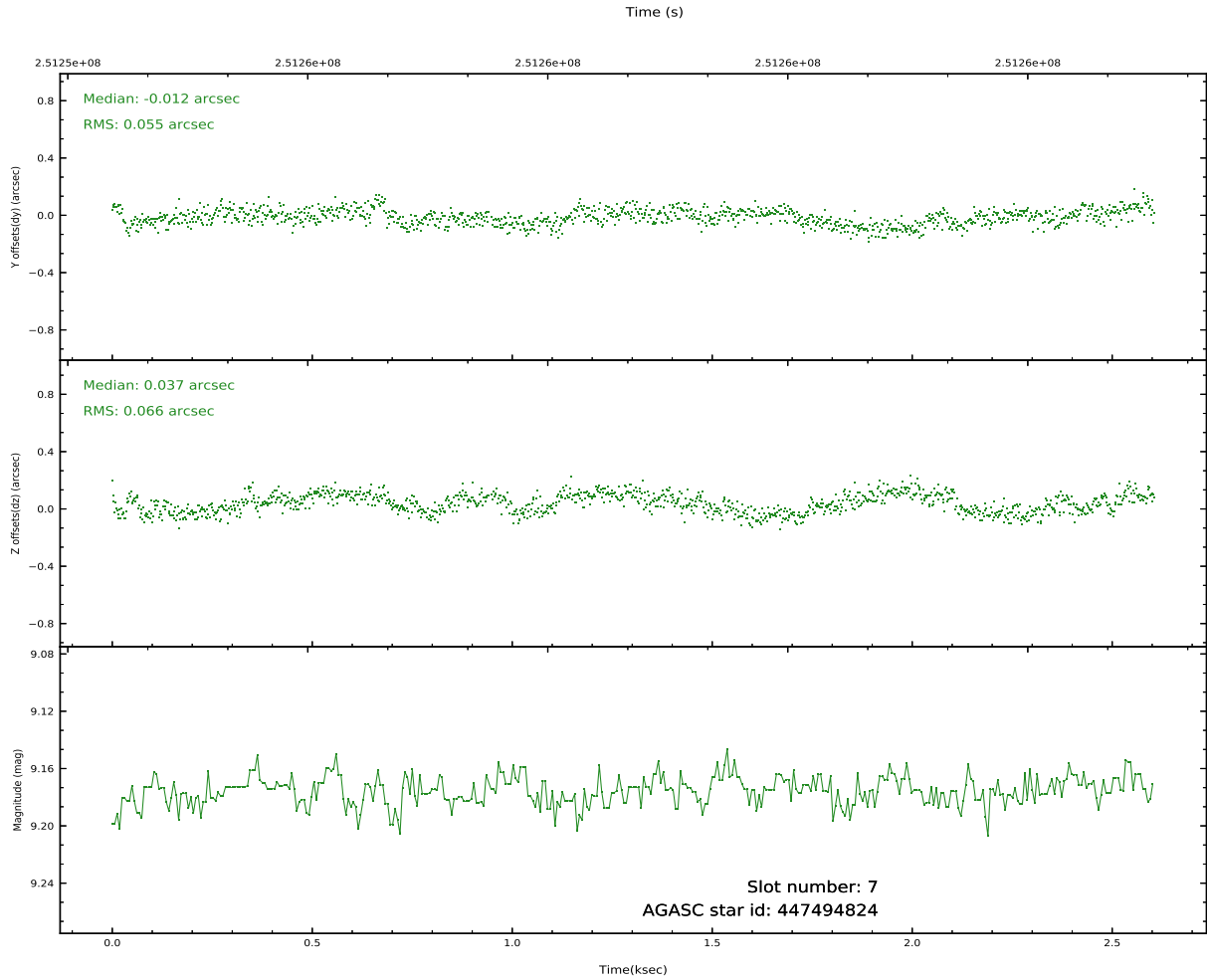
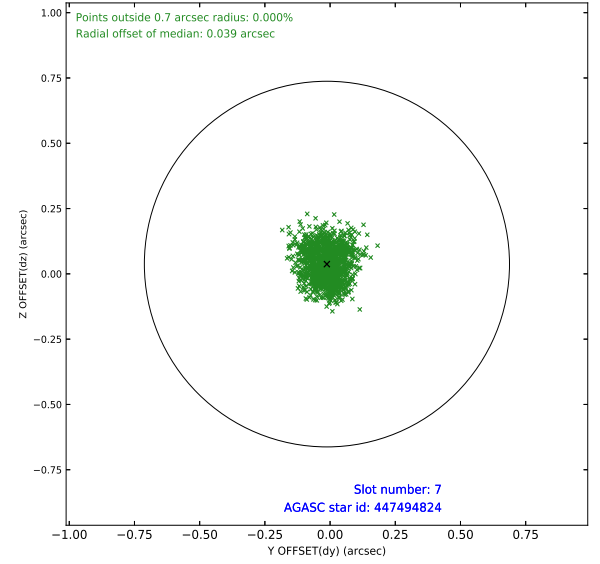
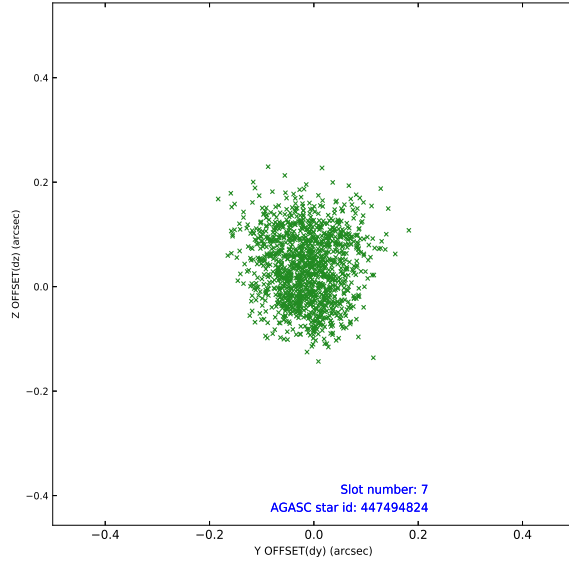
### 2.4.3 Slot 5



## 2.4.4 Slot 6

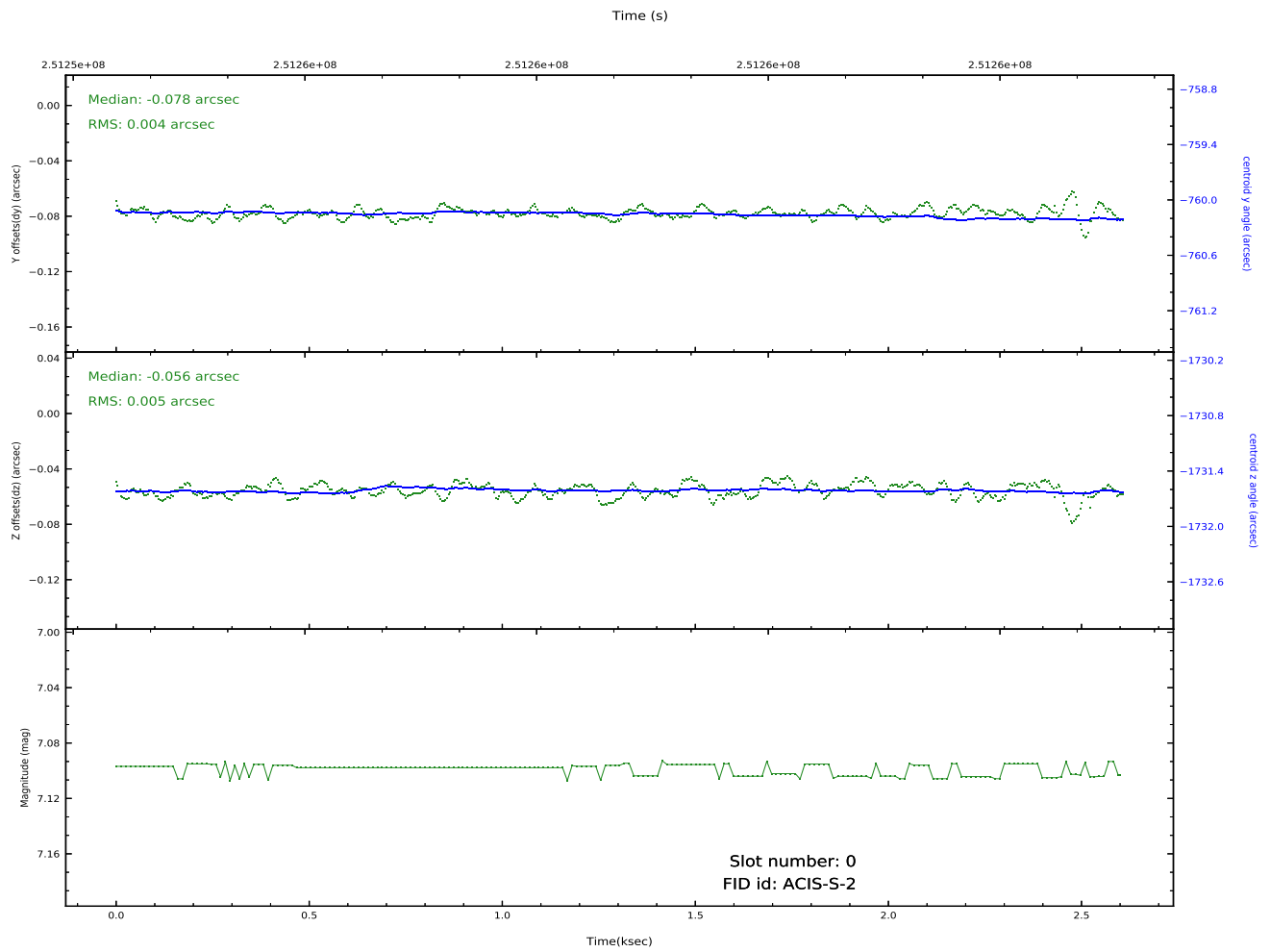
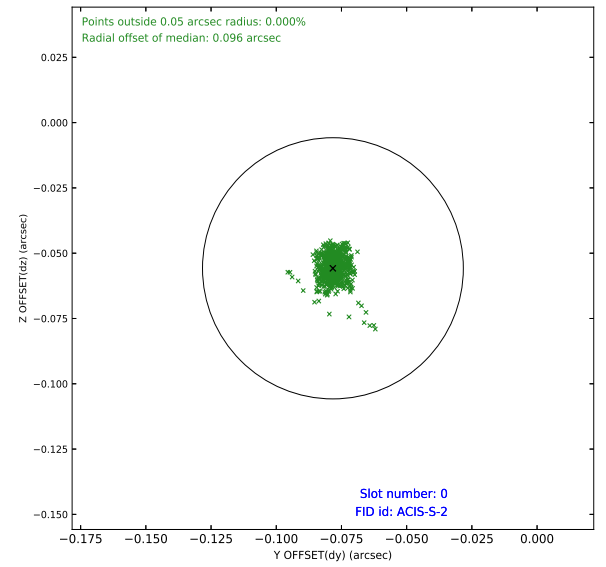
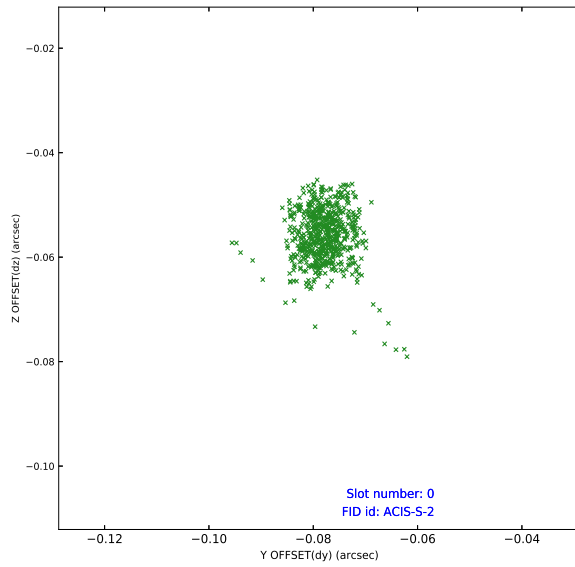


## 2.4.5 Slot 7

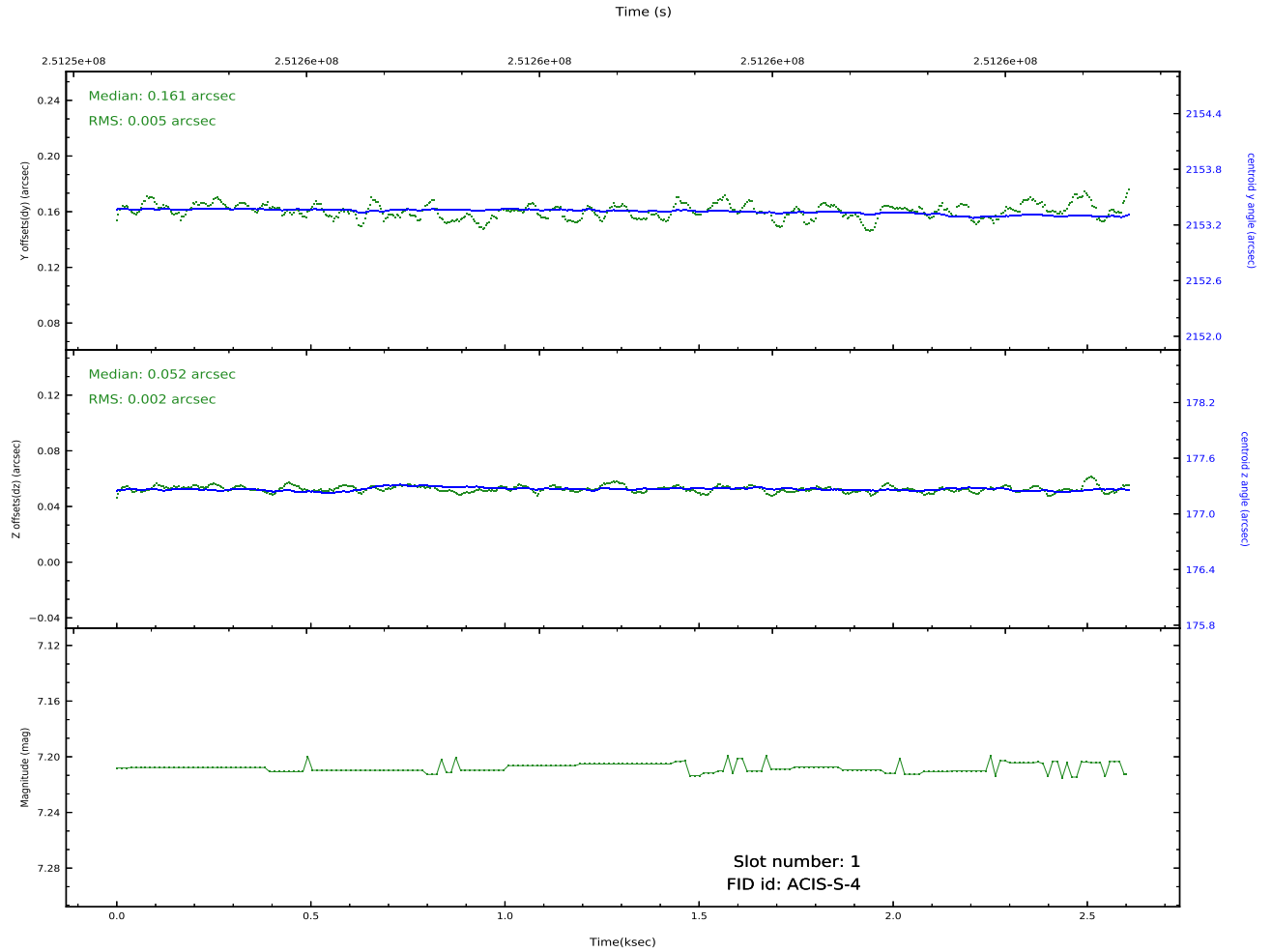
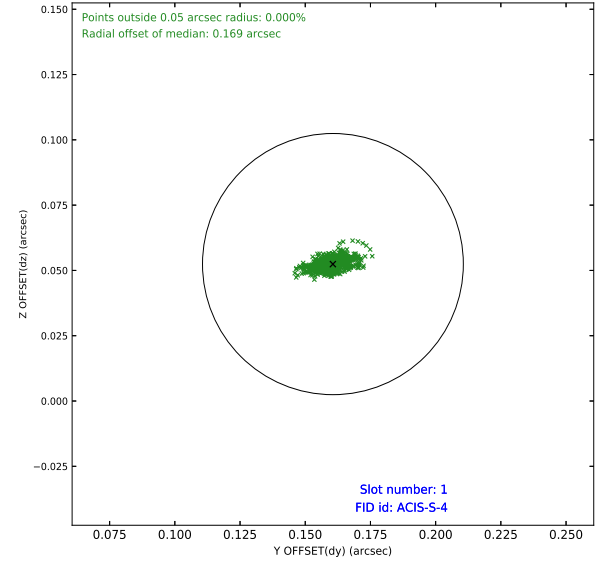
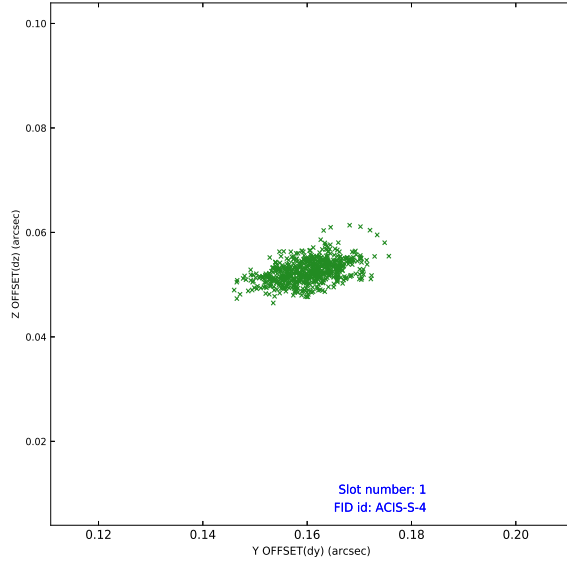


## 2.5 FID Slots

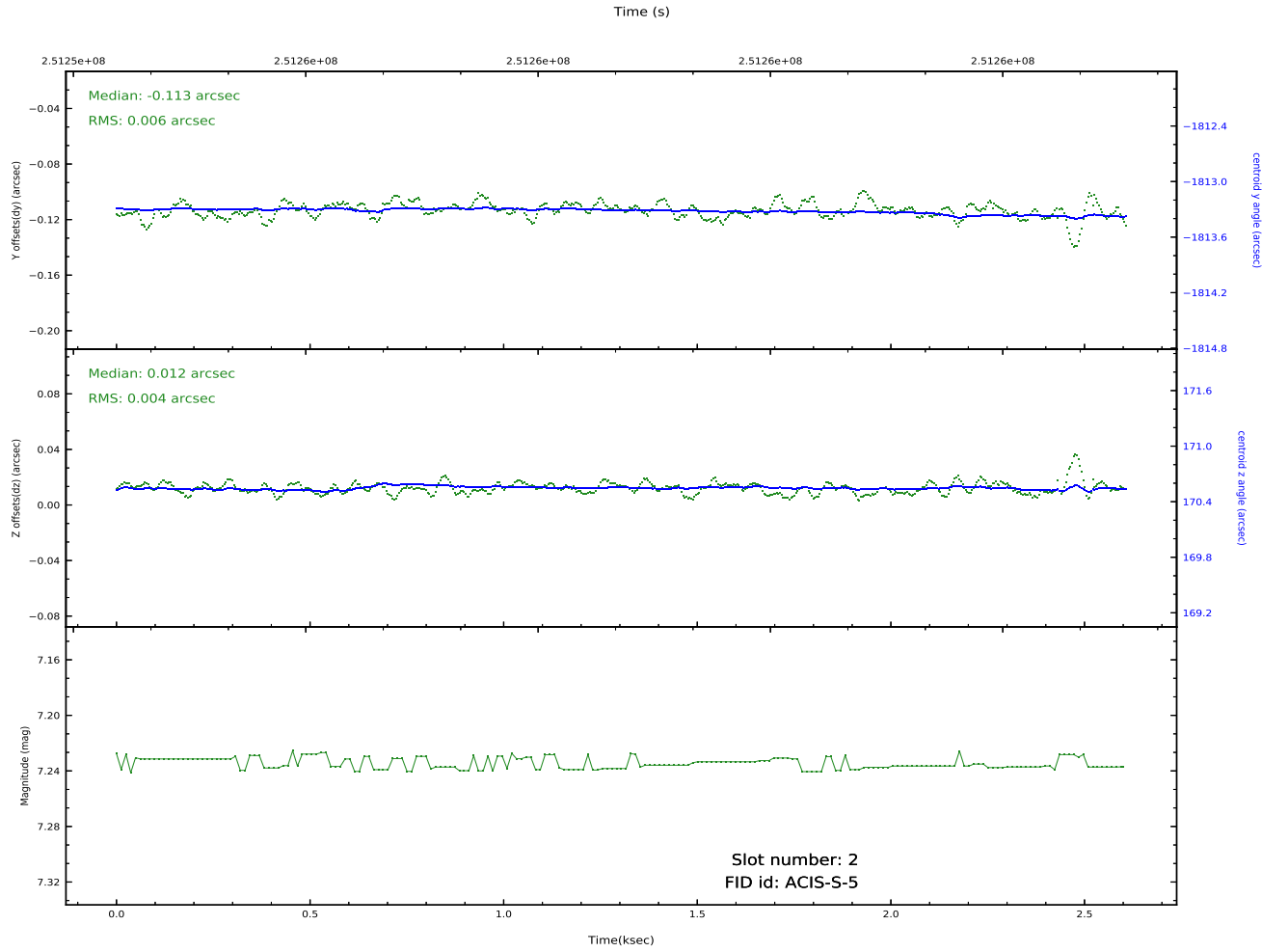
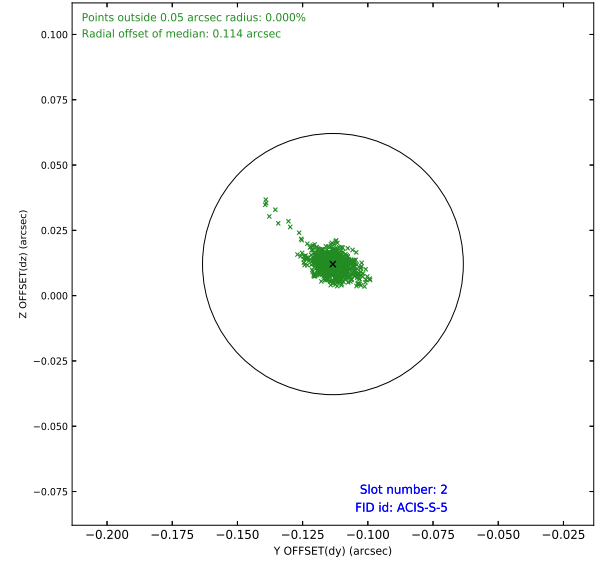
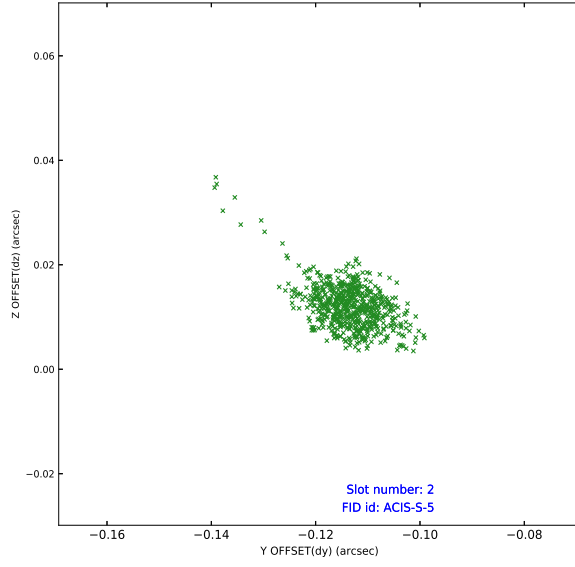
### 2.5.1 Slot 0



## 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)	2020.10.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.601599

### A.2 Comments