

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 6289 - L2 Version 4  
Chandra X-Ray Center

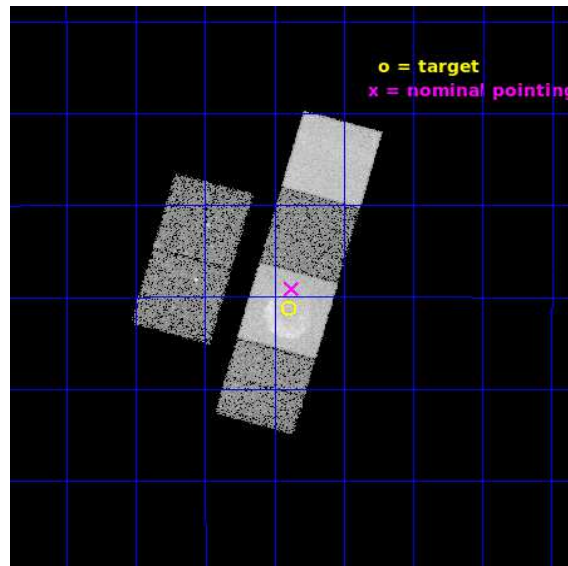
L2 Processing Date : Oct 8 2020

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# 1 Front

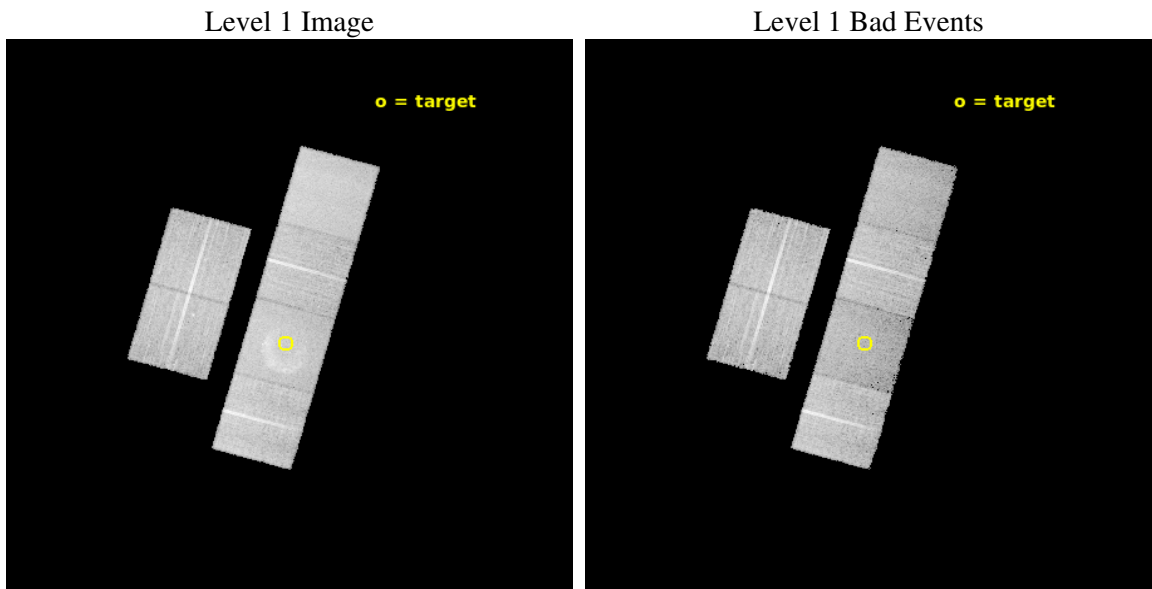
seq_num	500524	Sequence number
obs_id	6289	Observation id
title	Small-Diameter Galactic Supernova Remnants: The Missing Young Remnants?	Proposal title
observer	Stephen Reynolds	Principal investigator
object	SNR G15.9+0.2	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	274.72375	Observer's specified target RA [deg]
dec_targ	-15.020556	Observer's specified target Dec [deg]
ra_nom	274.7185159294	Nominal RA [deg]
dec_nom	-14.984868586382	Nominal Dec [deg]
roll_nom	105.75562379708	Nominal Roll [deg]
revision	4	Processing version of data
ontime	15123.199943662	Sum of GTIs [s]
livetime	14931.700879877	Livetime [s]
ontime2	15123.199943662	Sum of GTIs [s]
ontime3	15119.958963394	Sum of GTIs [s]
ontime5	15123.199943662	Sum of GTIs [s]
ontime6	15119.959003299	Sum of GTIs [s]
ontime7	15123.199943662	Sum of GTIs [s]
ontime8	15119.958973289	Sum of GTIs [s]
l2events	143240	Number of level 2 events



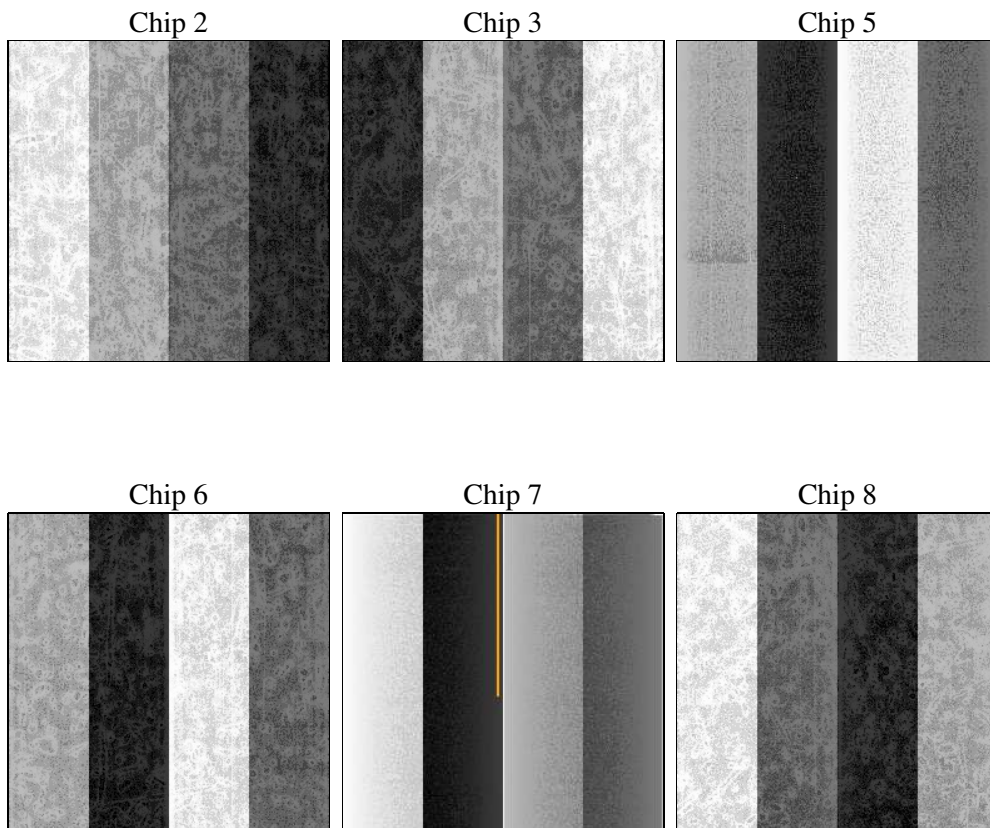
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	15123.199943662	Sum of GTIs [s]
caldsver	4.9.2	&#160	ontime2	15123.199943662	Sum of GTIs [s]
date	2020-10-08T13:13:58	Date and time of file creation	ontime3	15119.958963394	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	15123.199943662	Sum of GTIs [s]
			ontime6	15119.959003299	Sum of GTIs [s]
			ontime7	15123.199943662	Sum of GTIs [s]
			ontime8	15119.958973289	Sum of GTIs [s]
			l1events	607730	Number of level 1 events

### 2.1.4 Events

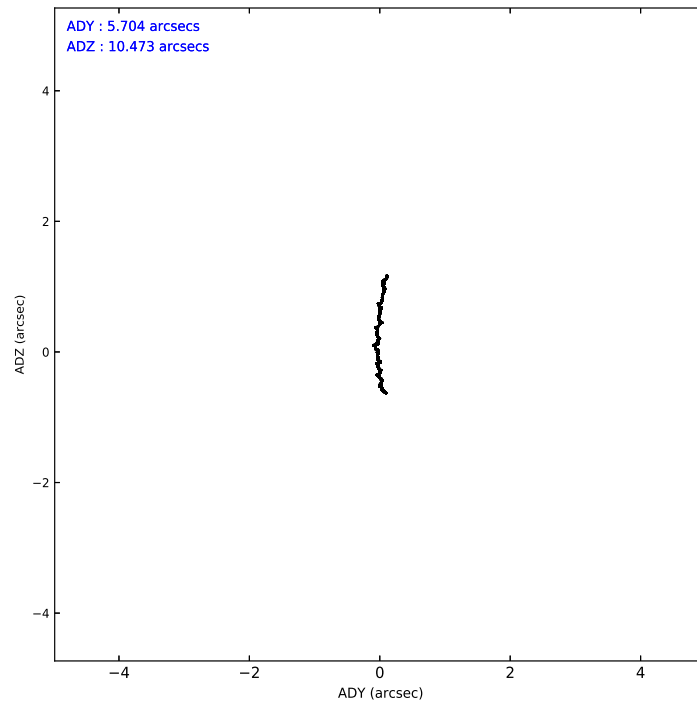
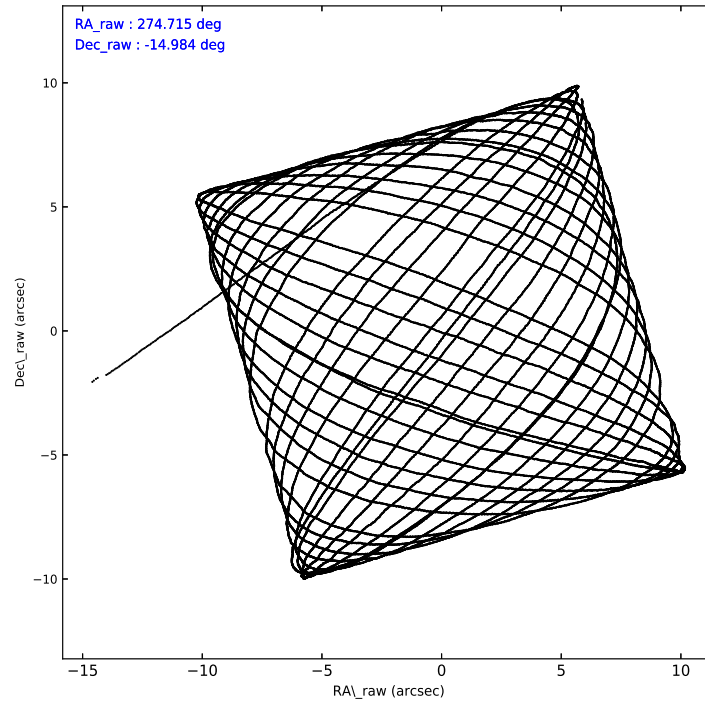
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	96990	89351	112855	92631	107967	107936	grade 0 events	4315	4182	3078	4013	7067	4995
rejected events	87687	80064	59010	83021	51569	89721		4%	4%	2%	4%	6%	4%
rejected %	90%	89%	52%	89%	47%	83%	grade 1 events	53	53	44	42	91	64
								0%	0%	0%	0%	0%	0%
							grade 2 events	1839	1894	16008	1944	12122	3942
								1%	2%	14%	2%	11%	3%
							grade 3 events	881	922	2126	956	5588	1796
								0%	1%	1%	1%	5%	1%
							grade 4 events	886	942	2131	1026	5681	1603
								0%	1%	1%	1%	5%	1%
							grade 5 events	2888	3324	9349	3543	10458	4808
								2%	3%	8%	3%	9%	4%
							grade 6 events	1678	1631	32196	2015	27499	6507
								1%	1%	28%	2%	25%	6%
							grade 7 events	84450	76403	47923	79092	39461	84221
								87%	85%	42%	85%	36%	78%

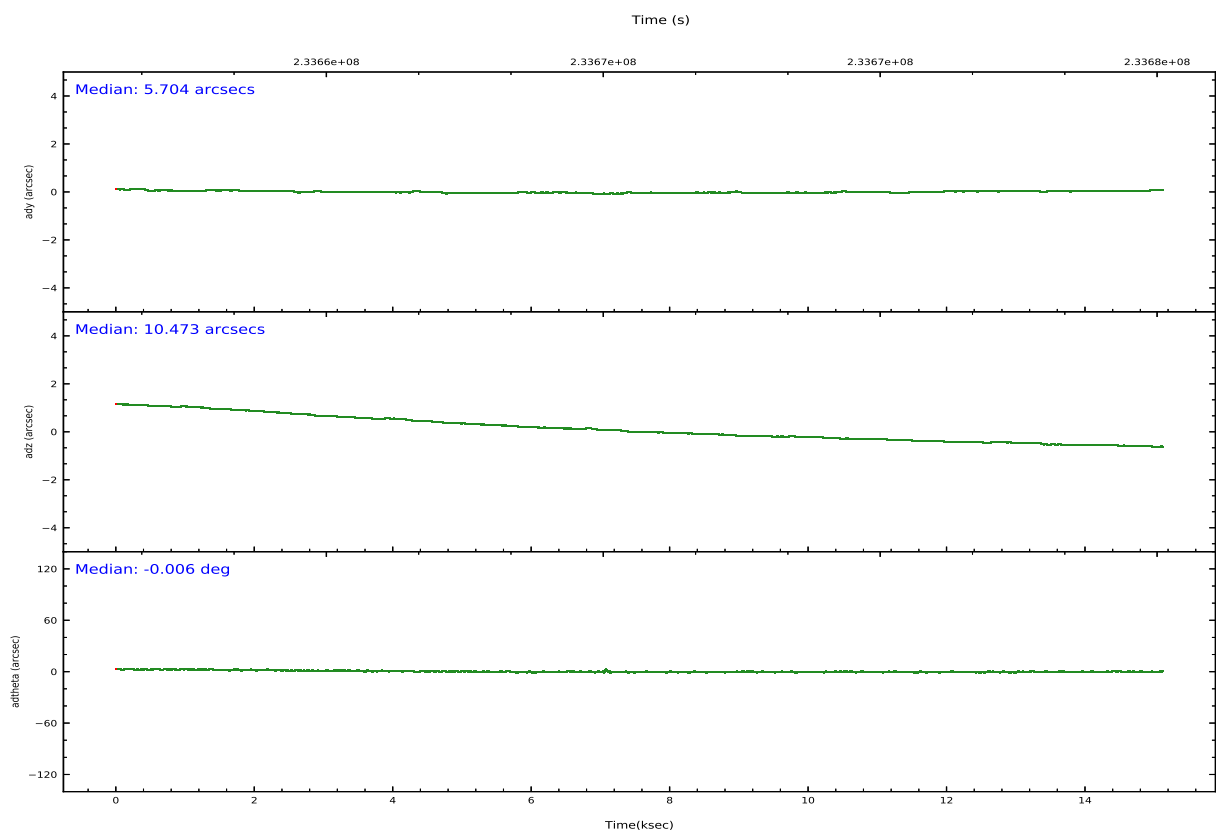
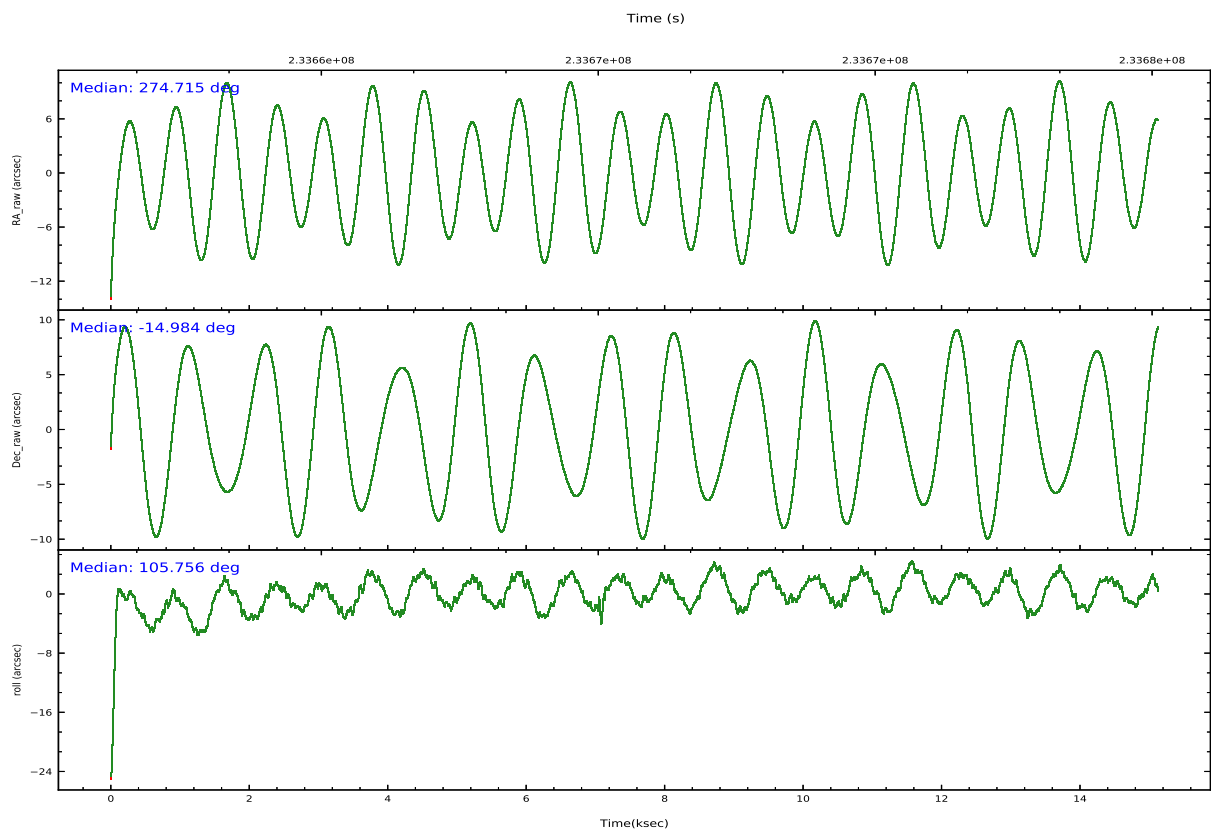


## 2.2 Compared Parameters

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	274.735477	274.7185159294	Subarray requested	NONE	NONE
[deg] Pointing Dec	-15.002863	-14.984868586382	Alternating exposures requested	N	N
[deg] Pointing Roll	105.603030	105.75562379708	[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)	233661088.184000	233659805.03942			
Observation start date	2005-05-28T09:50:24	2005-05-28T09:30:05			
[s] Observation end time (MET)	233676088.184000	233677093.20271			
Observation end date	2005-05-28T14:00:24	2005-05-28T14:18:13			
Read mode	TIMED	TIMED			

## 2.3 Aspect



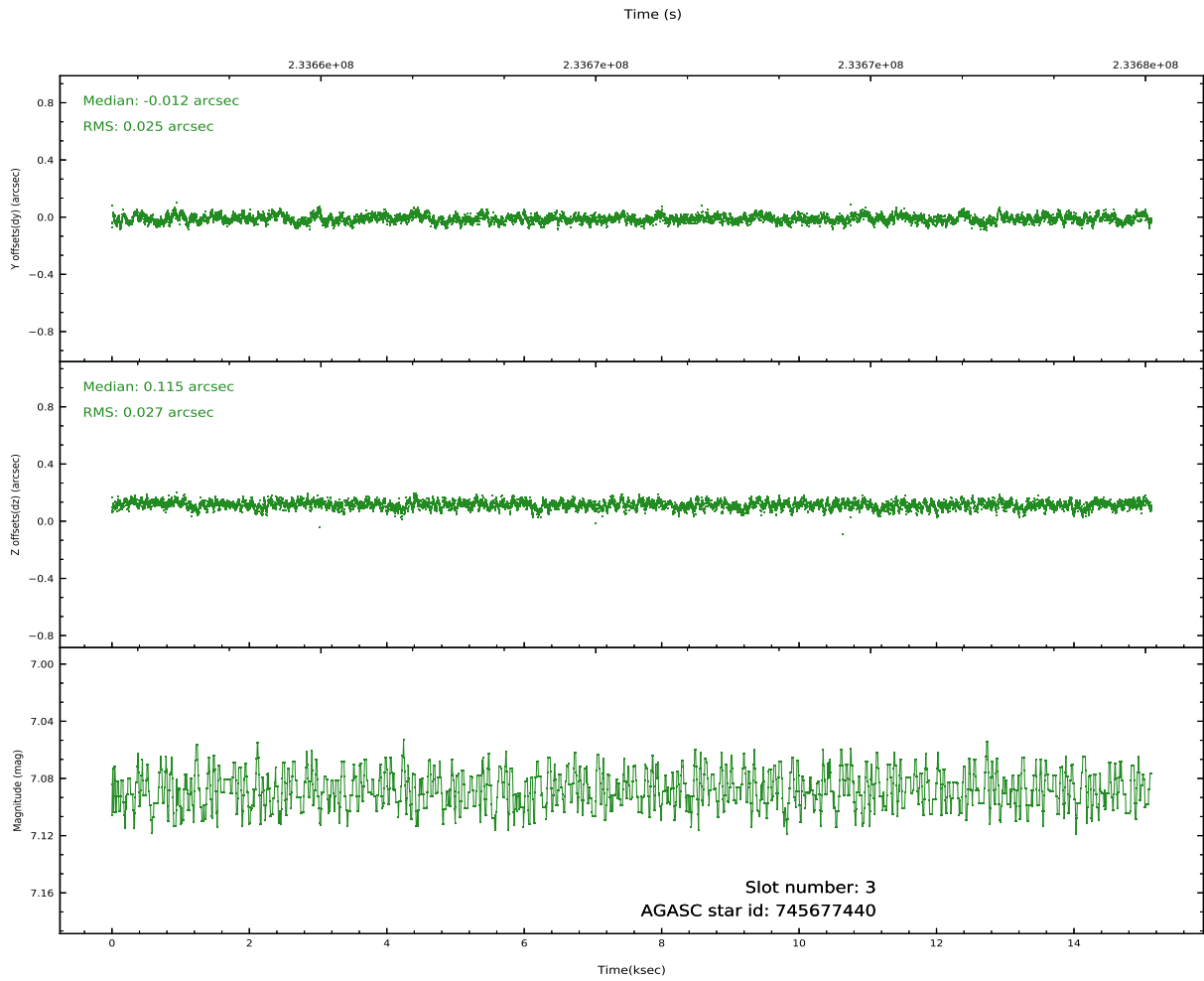
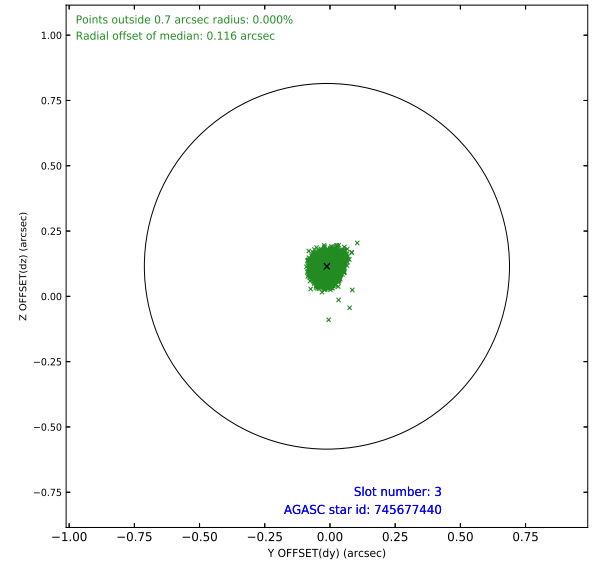
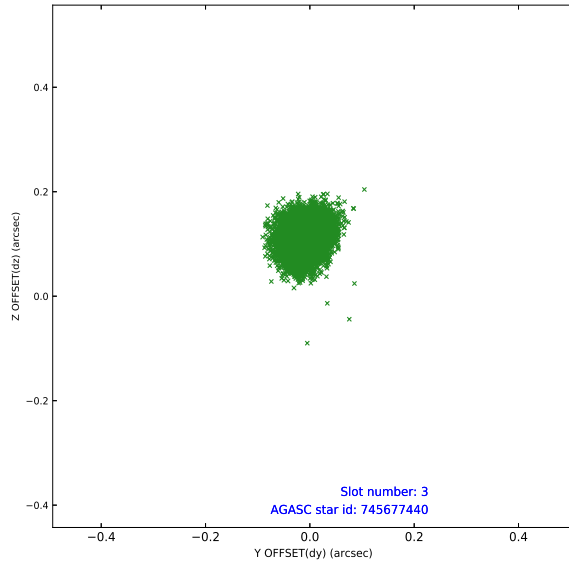


Slot Statistics

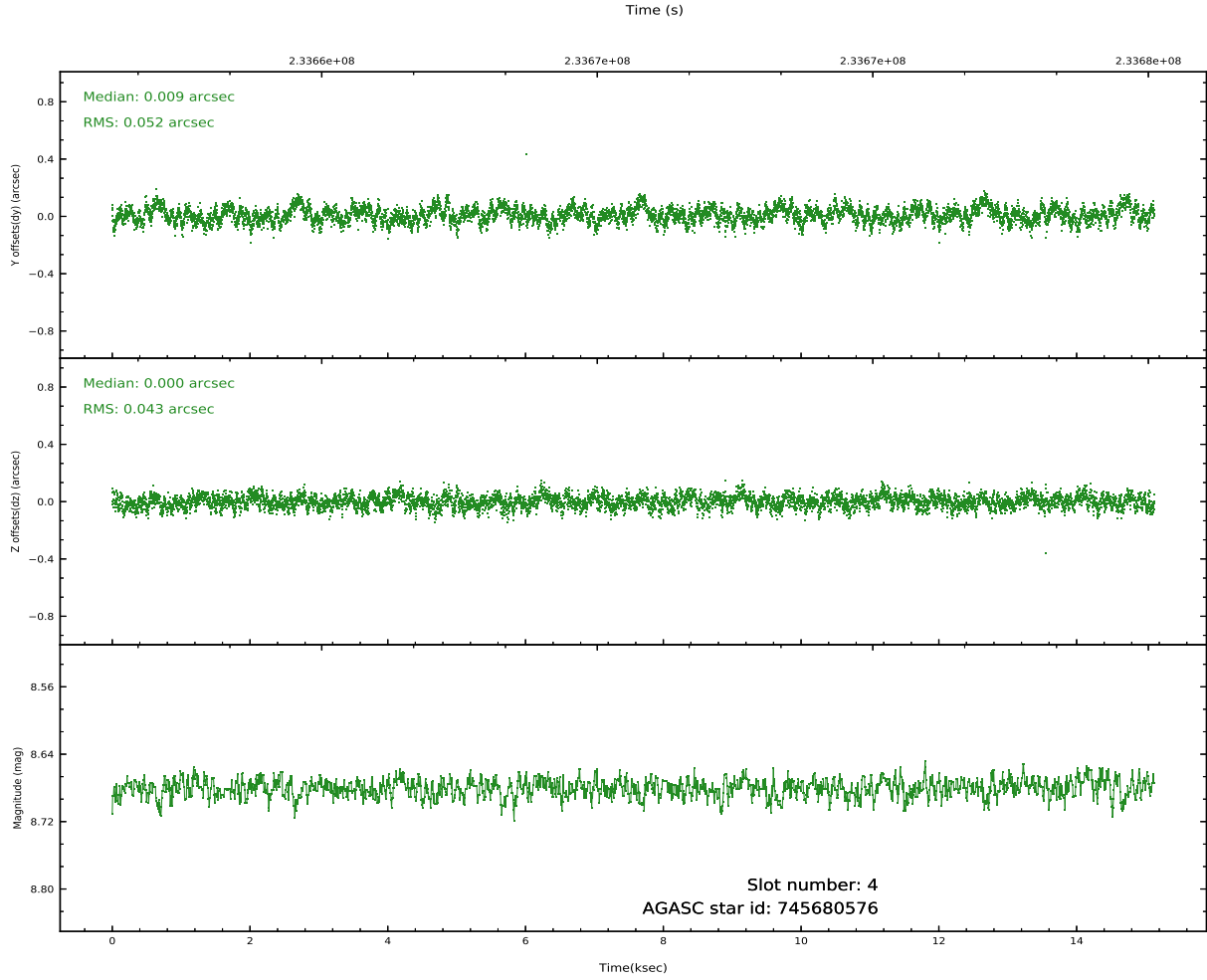
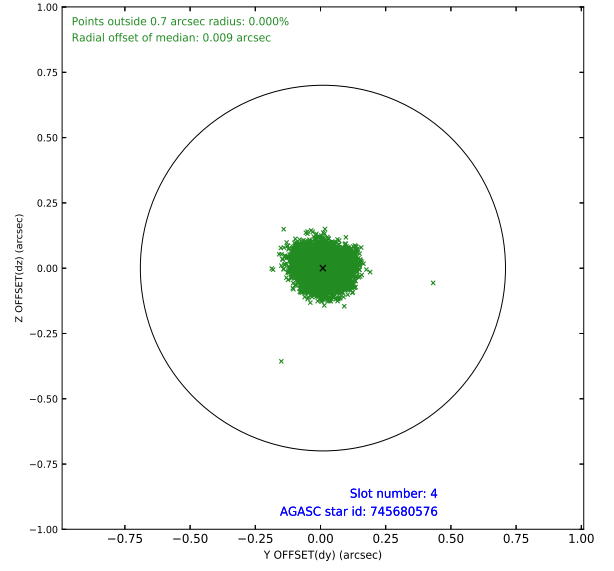
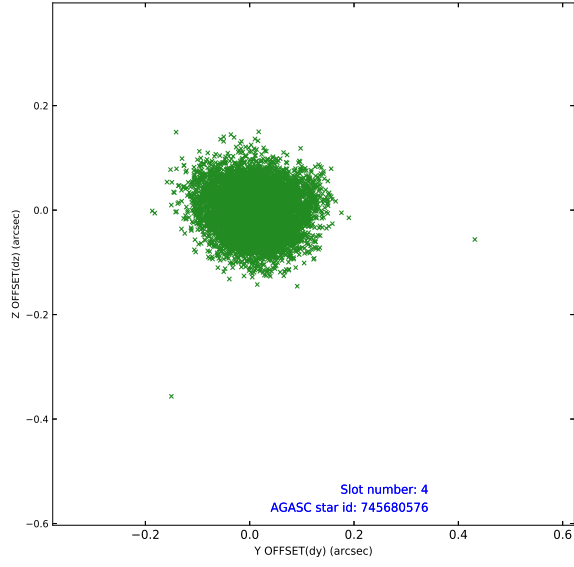
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	3690	1.000	-0.103	-0.066	0.010	0.018	0.000000	0.000000	-758.48	-1731
1	FID		ACIS-S-4	7.21	3690	1.000	0.175	0.067	0.009	0.019	0.000000	0.000000	2154.89	176
2	FID		ACIS-S-5	7.23	3688	1.000	-0.103	0.009	0.008	0.013	0.000000	0.000000	-1810.99	170
3	GUIDE	used	745677440	7.09	7380	1.000	-0.012	0.115	0.040	0.064	275.264510	-14.978543	-412.72	-1794
4	GUIDE	used	745680576	8.68	7377	1.000	0.009	0.000	0.073	0.115	274.063292	-14.644899	1867.43	1909
5	GUIDE	used	821172096	7.77	7379	1.000	0.012	0.077	0.053	0.083	275.077024	-15.219483	-1070.71	-932
6	GUIDE	used	745679408	7.65	7378	1.000	-0.136	-0.176	0.056	0.086	274.073517	-14.949069	802.08	2166
7	GUIDE	used	821179256	7.41	7376	1.000	0.123	-0.017	0.048	0.075	274.840900	-15.612800	-2212.98	238

## 2.4 Star Slots

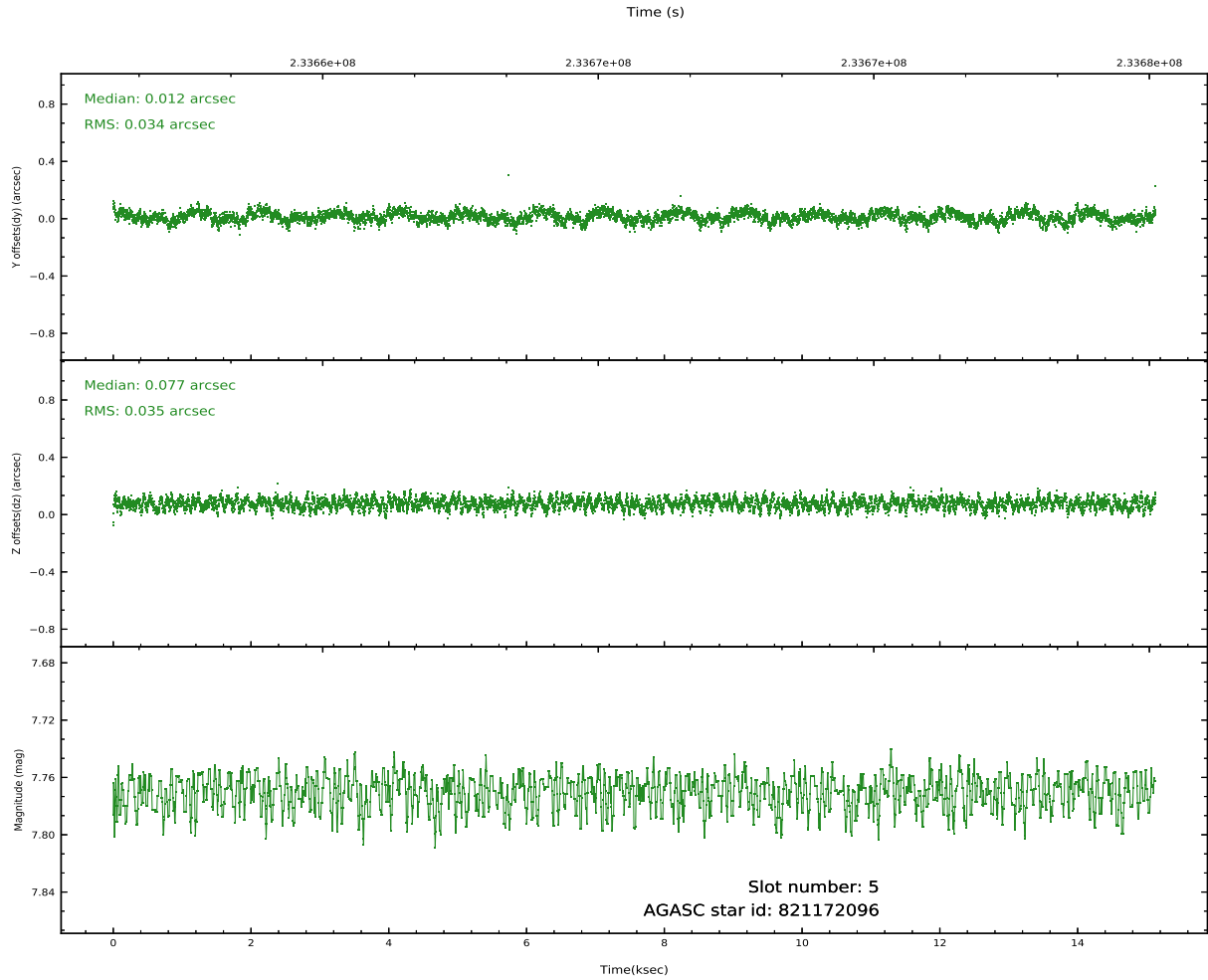
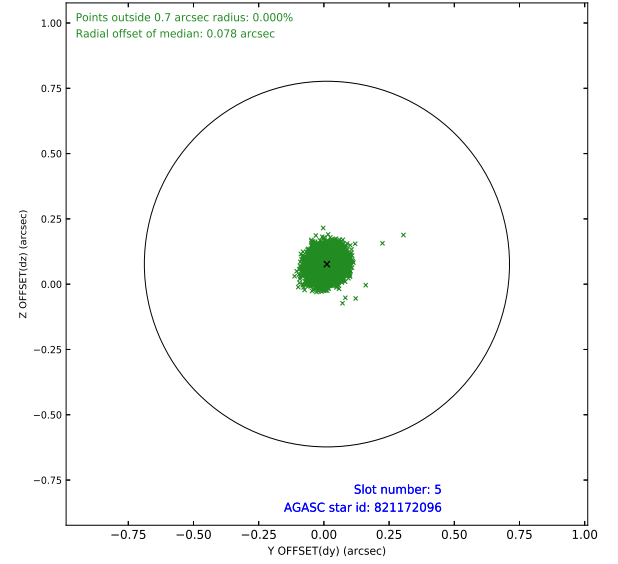
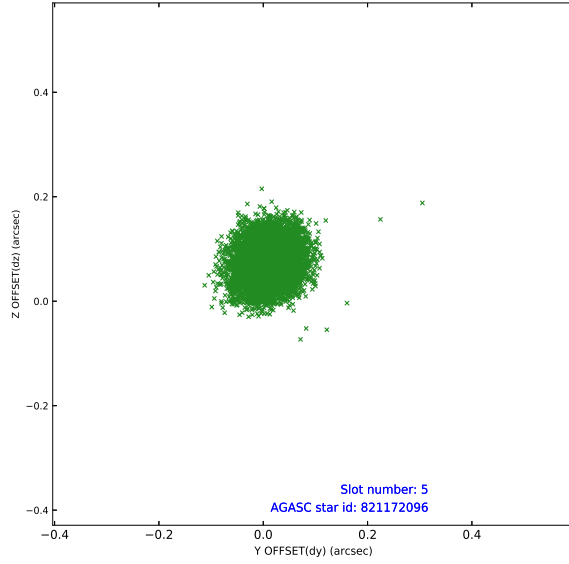
### 2.4.1 Slot 3



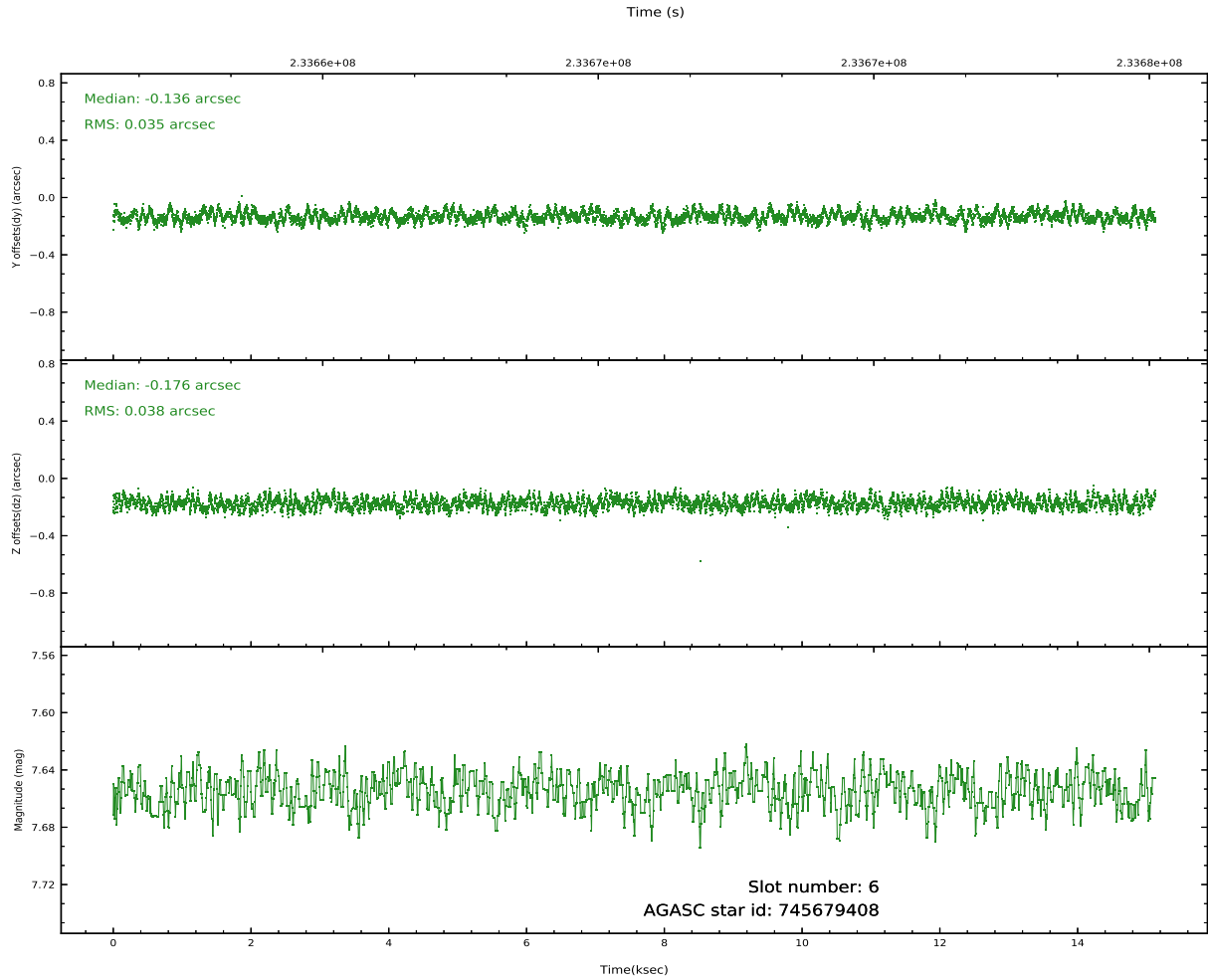
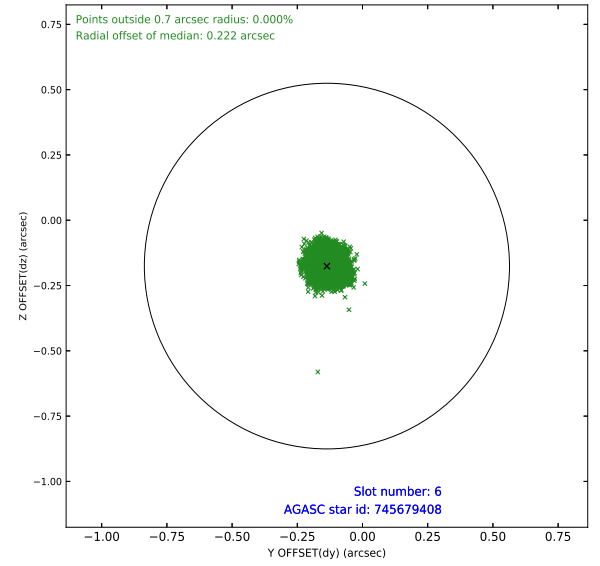
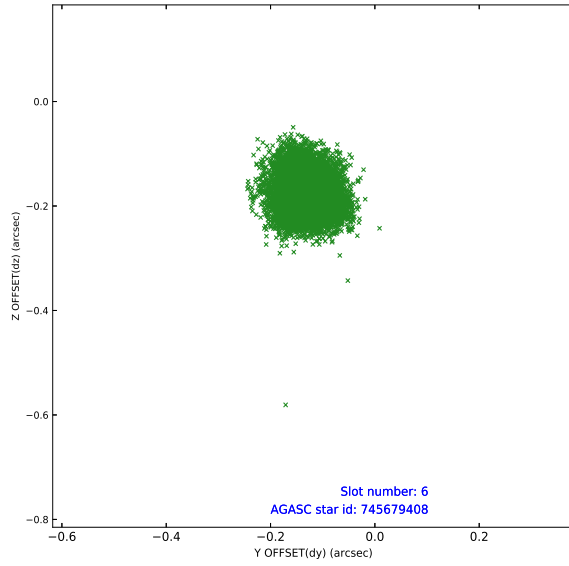
## 2.4.2 Slot 4



### 2.4.3 Slot 5

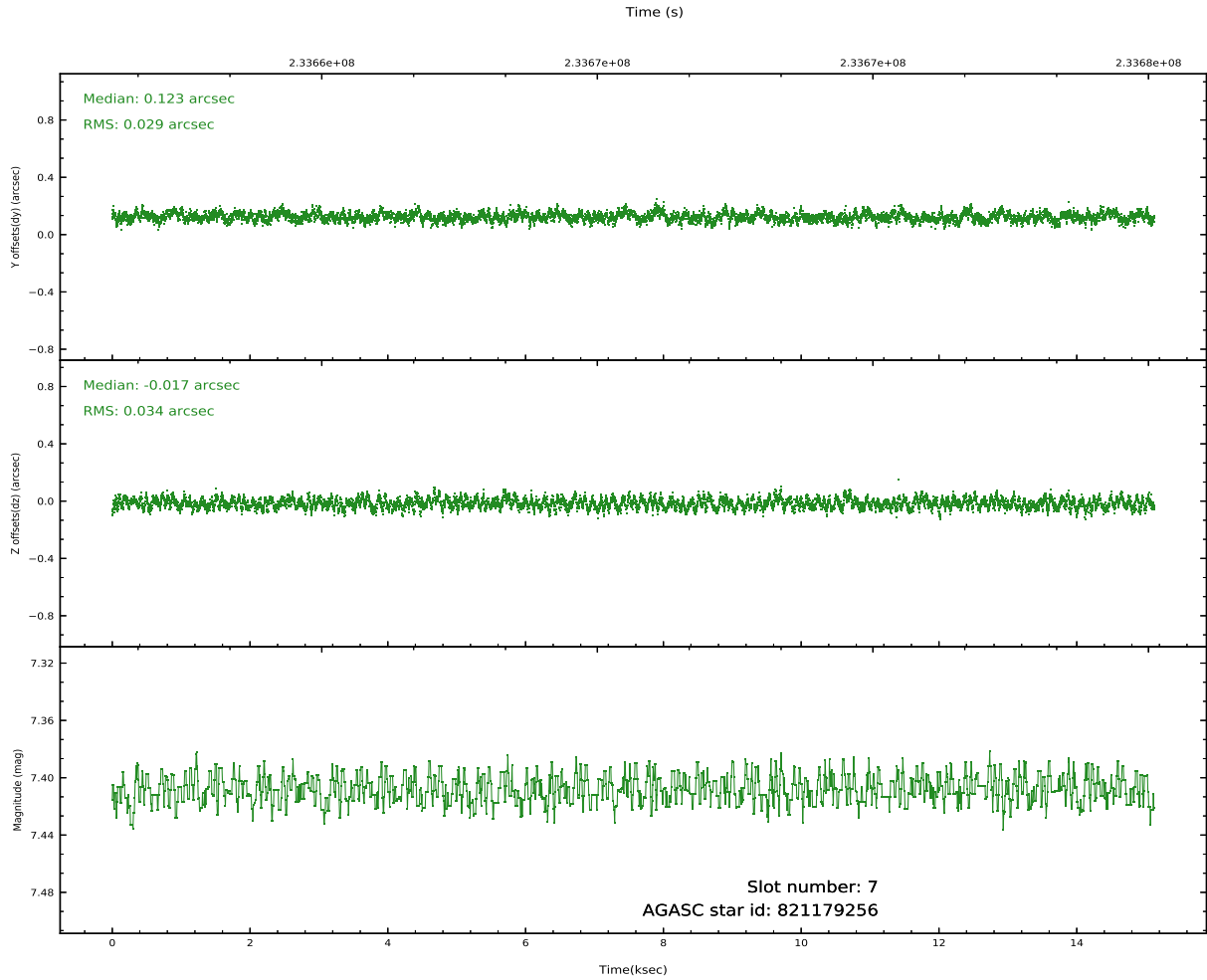
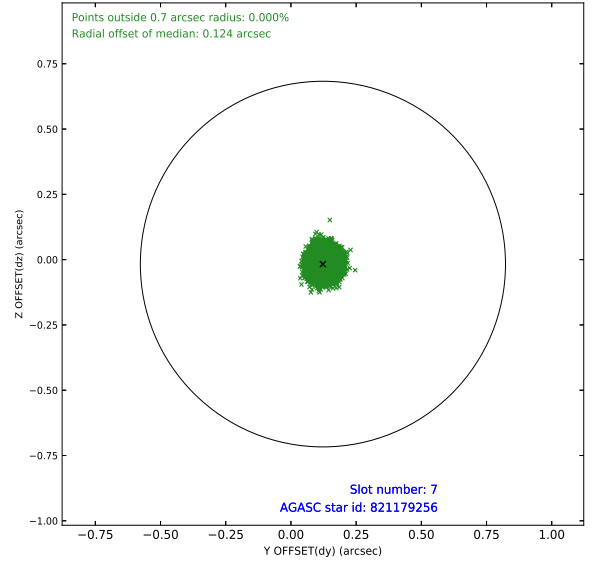
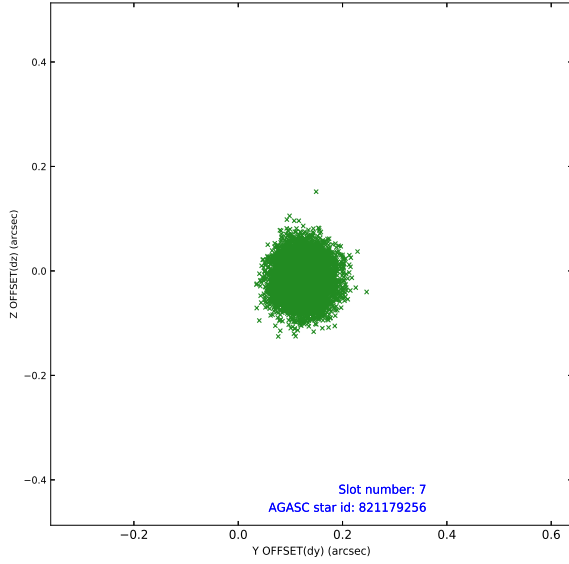


## 2.4.4 Slot 6



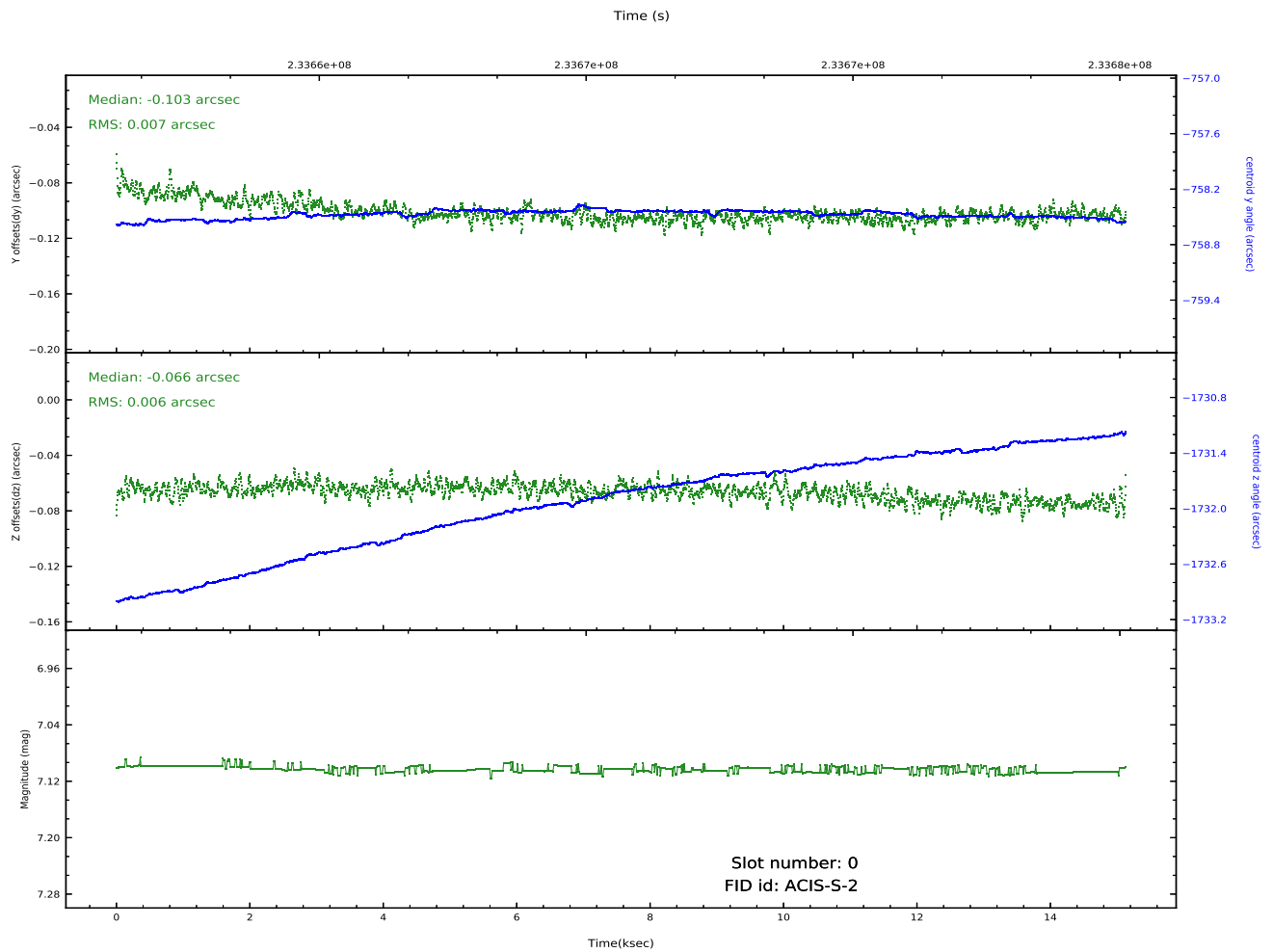
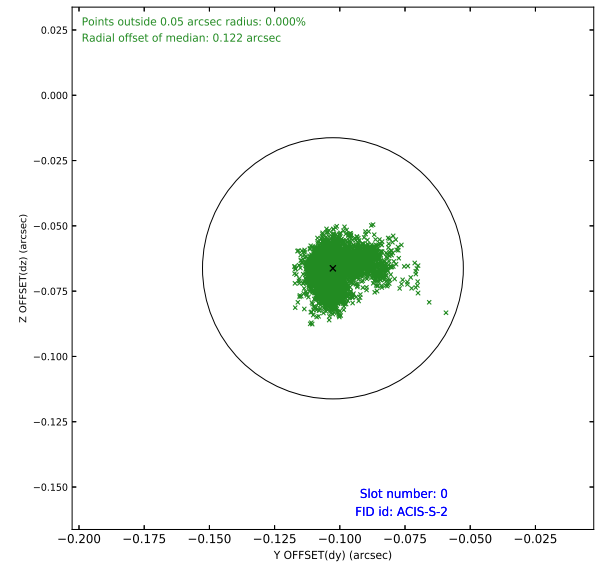
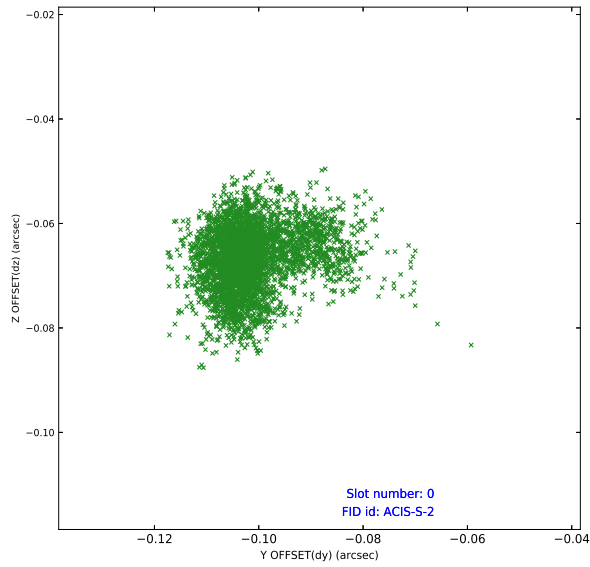


## 2.4.5 Slot 7

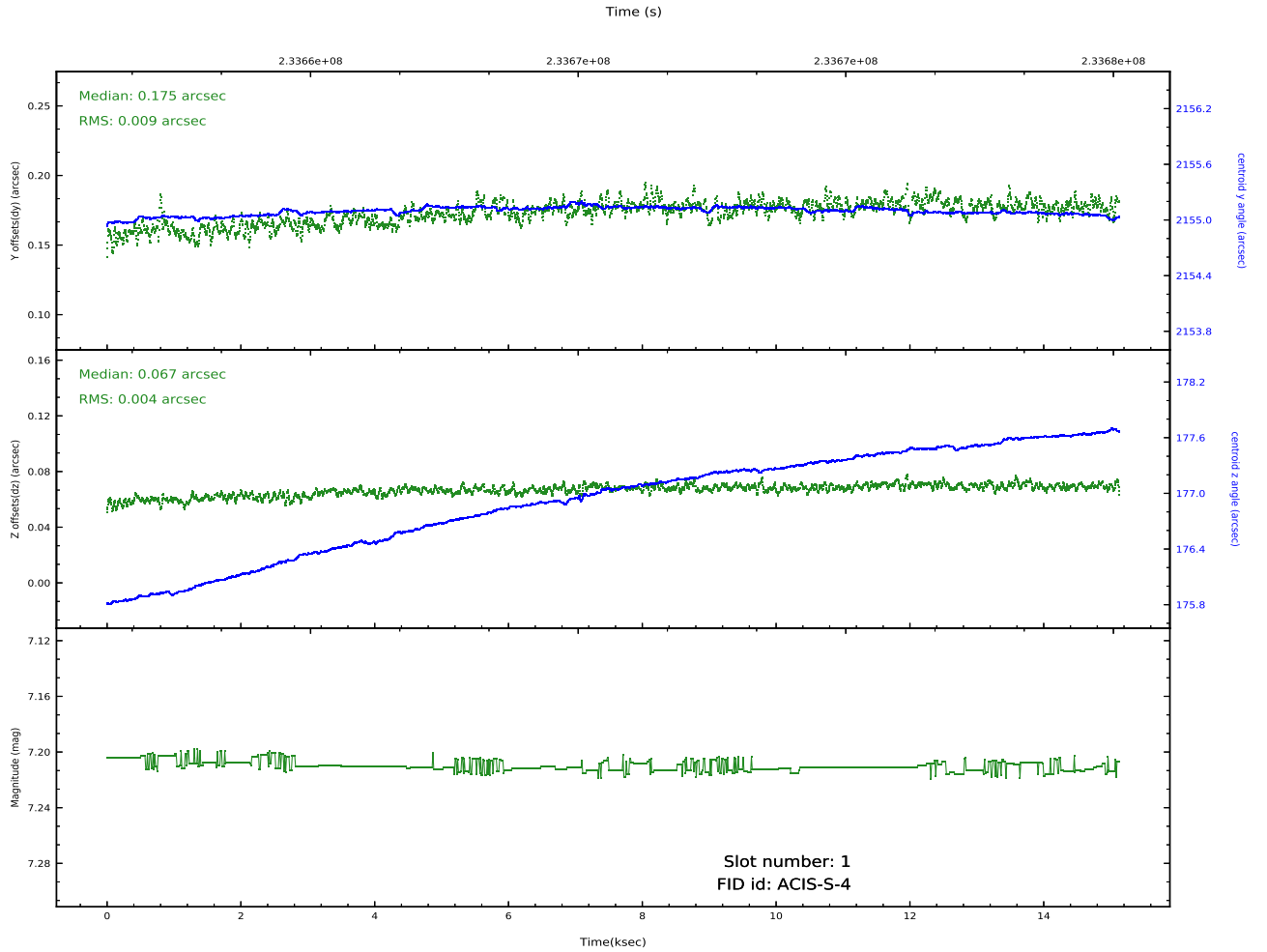
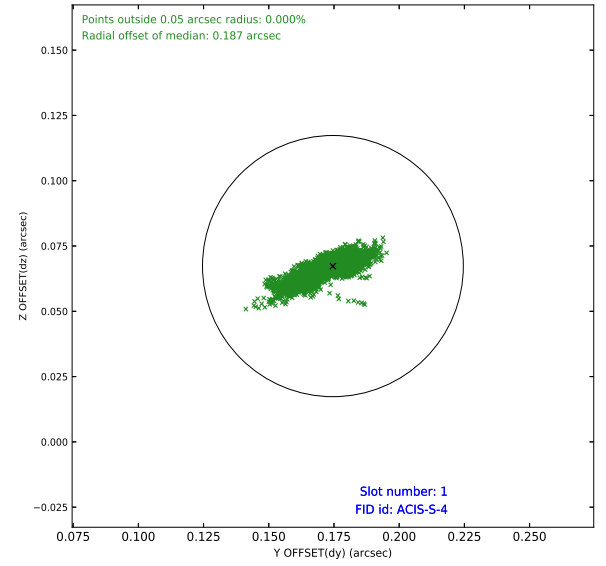
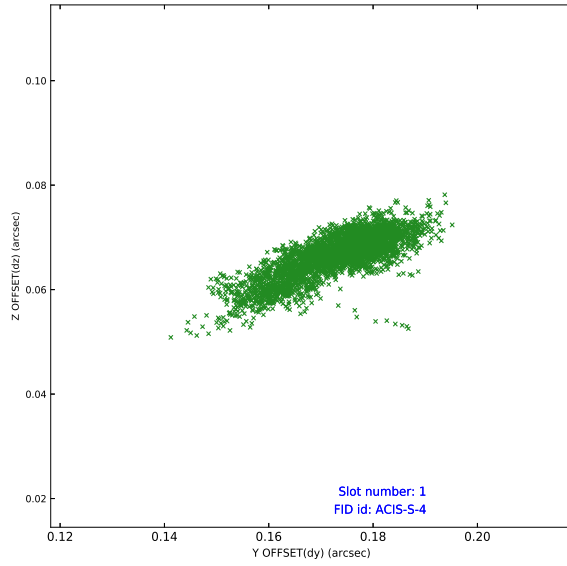


## 2.5 FID Slots

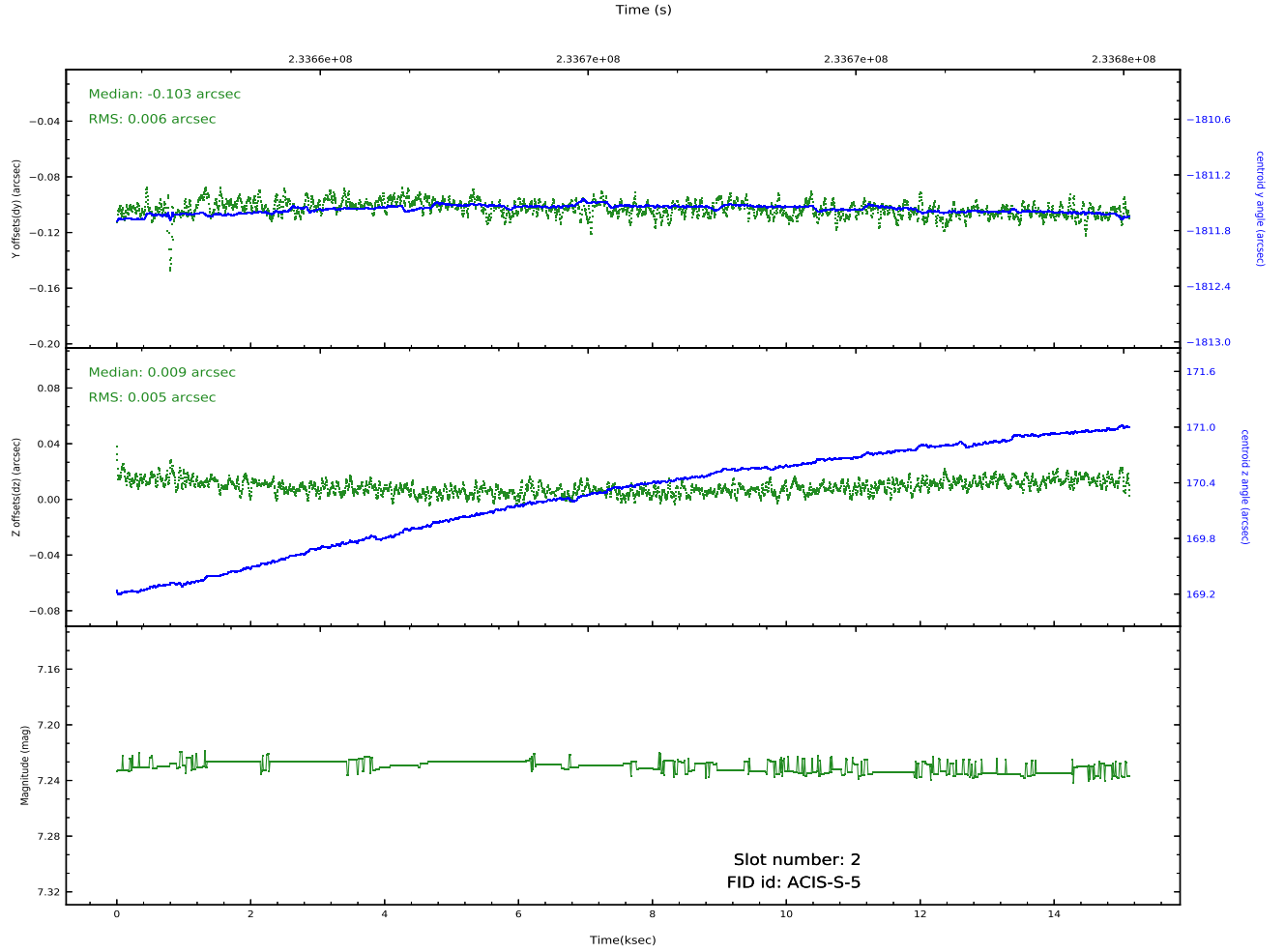
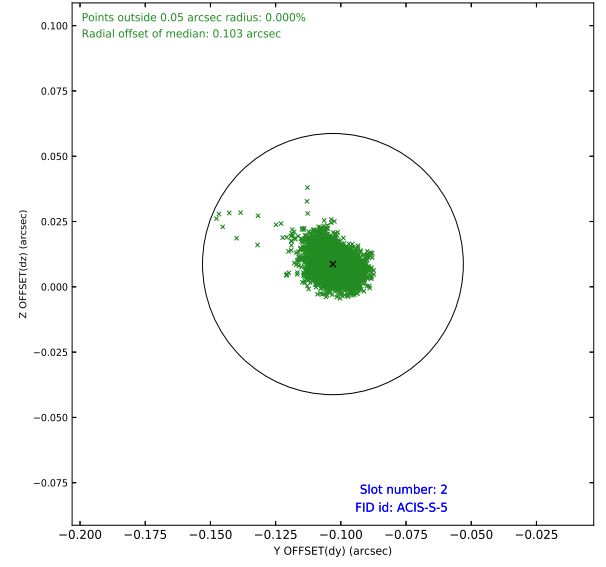
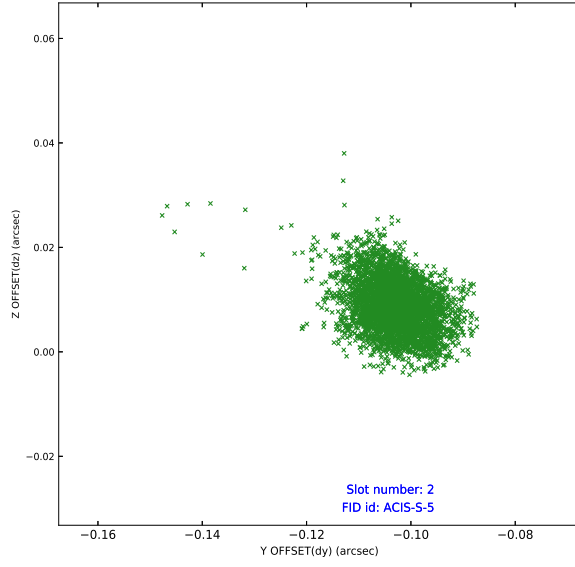
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.12319

### A.2 Comments