

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 7256 - L2 Version 3  
Chandra X-Ray Center

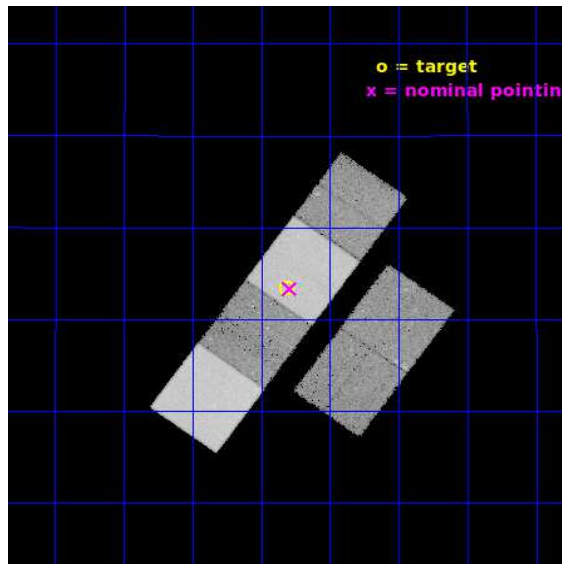
L2 Processing Date : Oct 12 2020

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# 1 Front

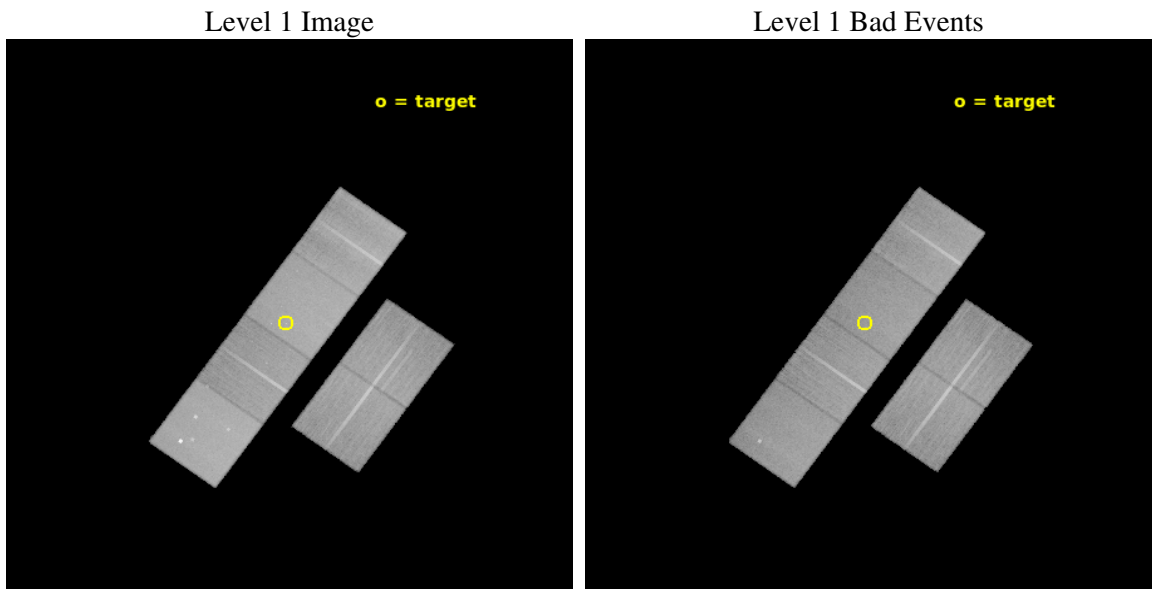
seq_num	500686	Sequence number
obs_id	7256	Observation id
title	A Day in the Life of a Short Gamma-Ray Burst	Proposal title
observer	David Burrows	Principal investigator
object	GRB 051221	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	328.702917	Observer's specified target RA [deg]
dec_targ	16.891167	Observer's specified target Dec [deg]
ra_nom	328.69777471387	Nominal RA [deg]
dec_nom	16.889134483965	Nominal Dec [deg]
roll_nom	305.721917381	Nominal Roll [deg]
revision	3	Processing version of data
ontime	30179.199887574	Sum of GTIs [s]
livetime	29797.052686865	Livetime [s]
ontime2	30172.717947006	Sum of GTIs [s]
ontime3	30179.199887574	Sum of GTIs [s]
ontime5	30179.199887574	Sum of GTIs [s]
ontime6	30179.199887574	Sum of GTIs [s]
ontime7	30179.199887574	Sum of GTIs [s]
ontime8	30172.717936963	Sum of GTIs [s]
l2events	396967	Number of level 2 events



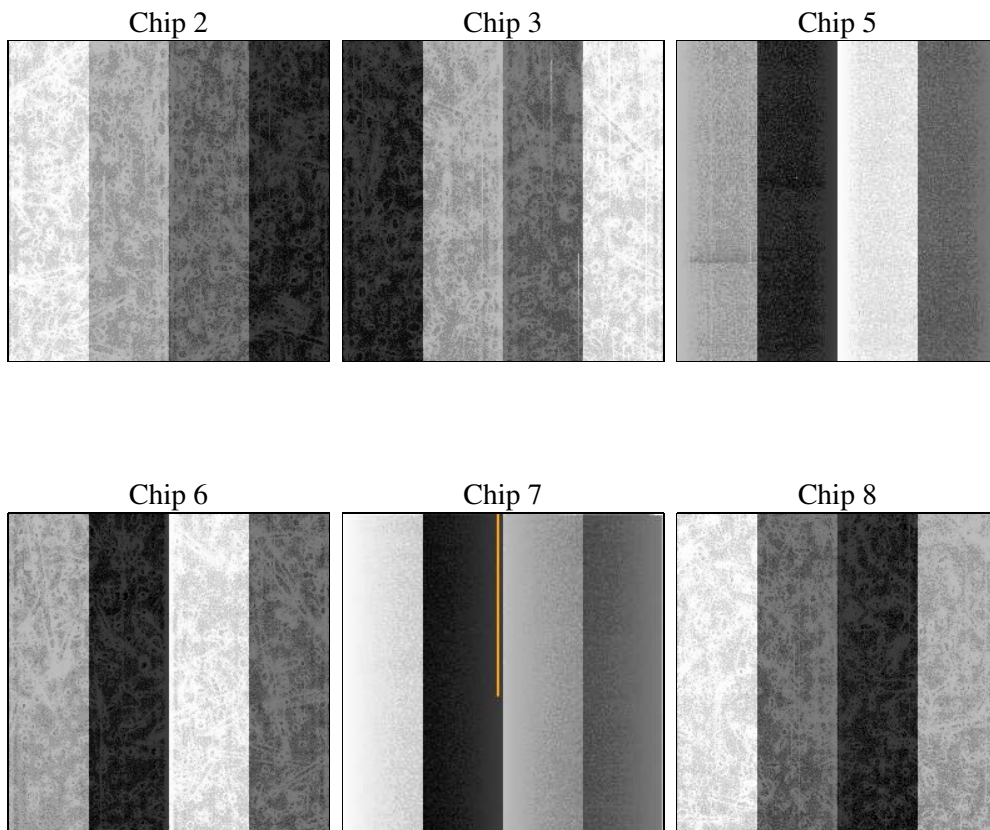
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	30000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	30179.199887574	Sum of GTIs [s]
caldsver	4.9.2	&#160	ontime2	30172.717947006	Sum of GTIs [s]
date	2020-10-12T06:55:01	Date and time of file creation	ontime3	30179.199887574	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	30179.199887574	Sum of GTIs [s]
			ontime6	30179.199887574	Sum of GTIs [s]
			ontime7	30179.199887574	Sum of GTIs [s]
			ontime8	30172.717936963	Sum of GTIs [s]
			l1events	1754746	Number of level 1 events

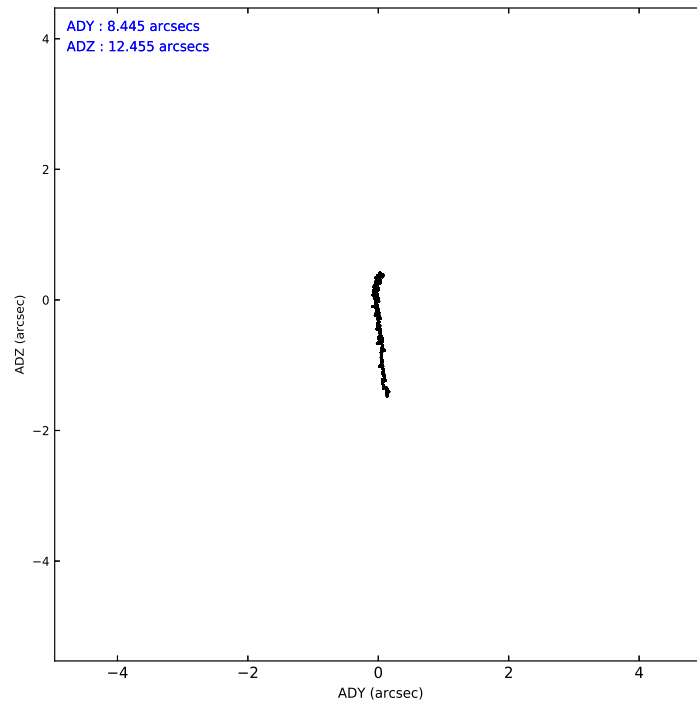
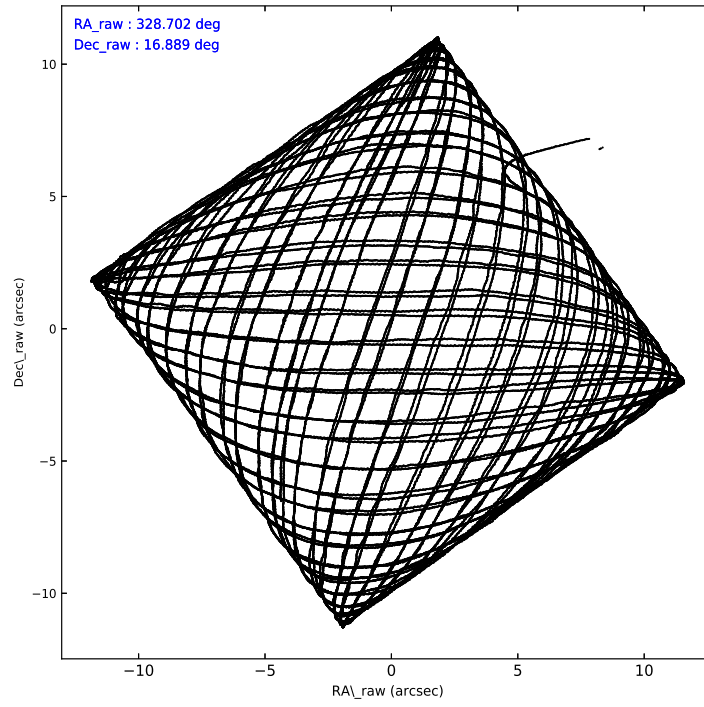
### 2.1.4 Events

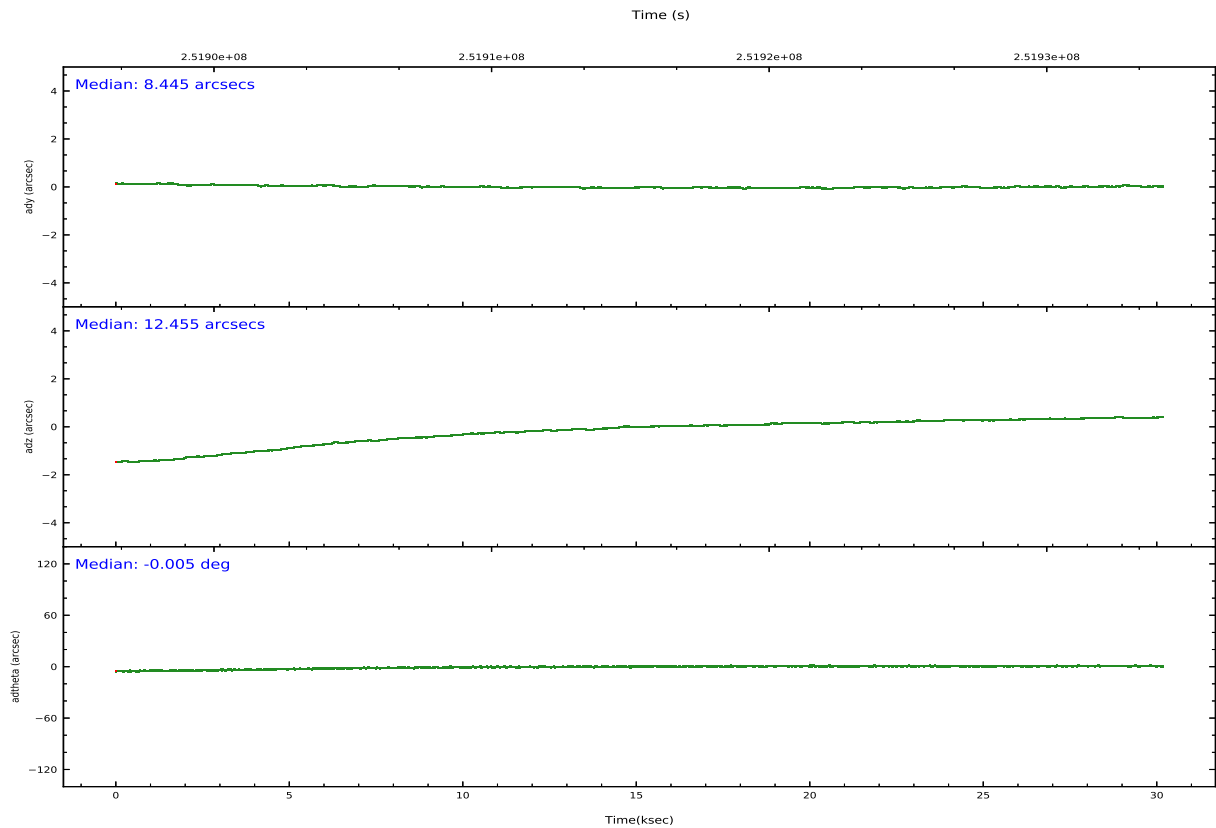
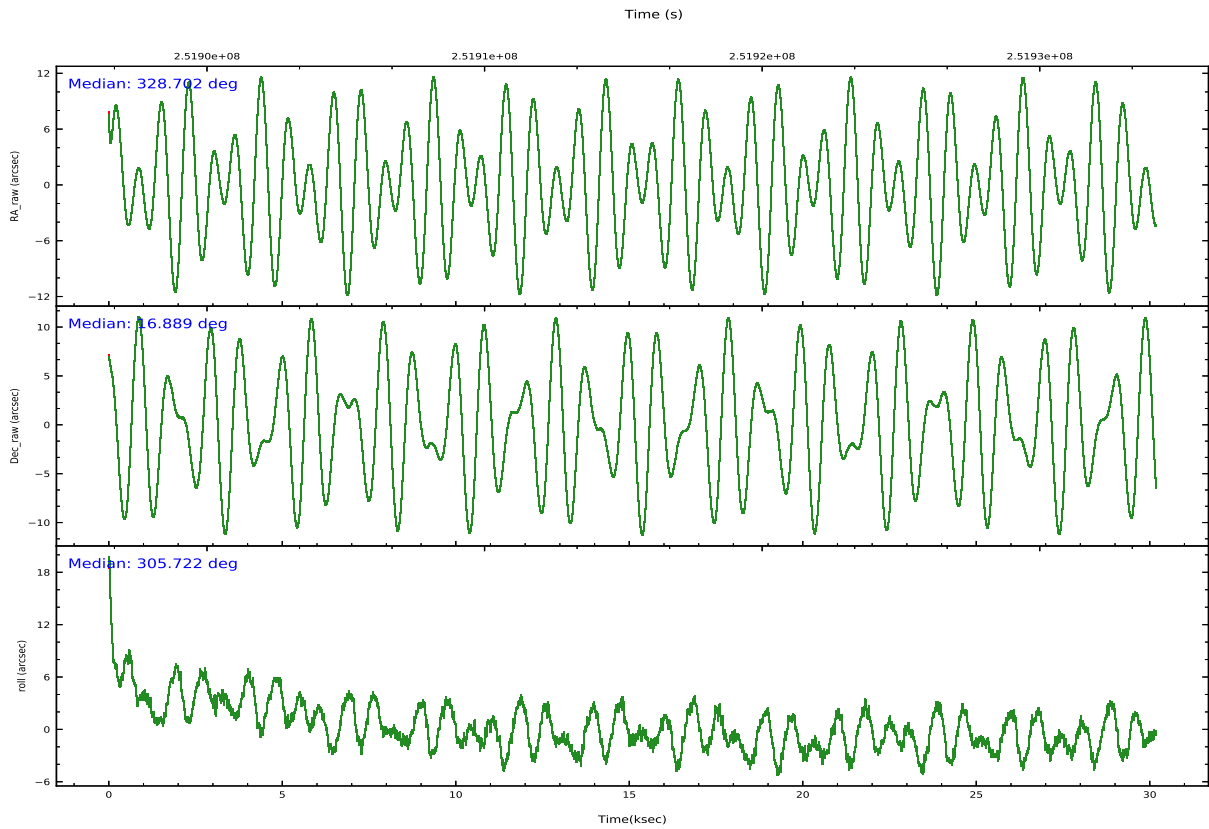
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	252195	240781	374311	242424	334716	310319	grade 0 events	12949	13249	16943	11823	12458	20841
rejected events	223345	211495	202112	212670	195641	243818		5%	5%	4%	4%	3%	6%
rejected %	88%	87%	53%	87%	58%	78%	grade 1 events	170	171	1721	129	338	218
								0%	0%	0%	0%	0%	0%
							grade 2 events	6093	5650	53902	6288	28188	15141
								2%	2%	14%	2%	8%	4%
							grade 3 events	2614	2738	6660	2922	12308	6921
								1%	1%	1%	1%	3%	2%
							grade 4 events	2648	2673	6230	2721	12017	6401
								1%	1%	1%	1%	3%	2%
							grade 5 events	9400	11081	27153	11429	31791	14853
								3%	4%	7%	4%	9%	4%
							grade 6 events	4651	5101	89230	6101	74673	17508
								1%	2%	23%	2%	22%	5%
							grade 7 events	213670	200118	172472	201011	162943	228436
								84%	83%	46%	82%	48%	73%

## 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	328.676155	328.69777471387	Subarray requested	NONE	NONE
[deg] Pointing Dec	16.900044	16.889134483965	Alternating exposures requested	N	N
[deg] Pointing Roll	305.575429	305.721917381	[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)	251901355.184000	251900220.02749			
Observation start date	2005-12-25T12:34:51	2005-12-25T12:17:00			
[s] Observation end time (MET)	251931355.184000	251932384.52898			
Observation end date	2005-12-25T20:54:51	2005-12-25T21:13:04			
Read mode	TIMED	TIMED			

## 2.3 Aspect





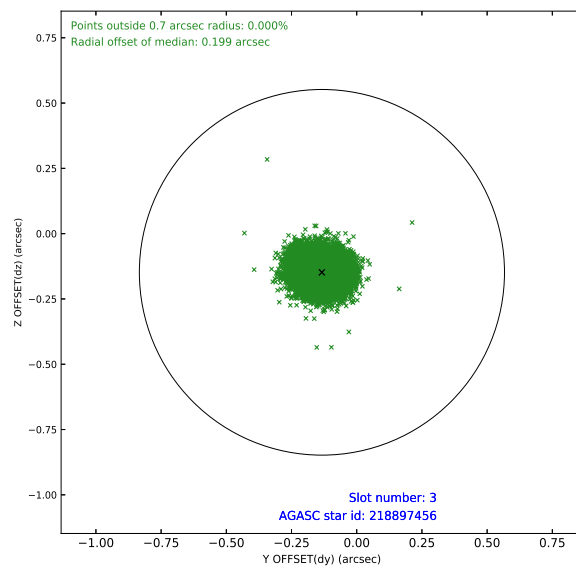
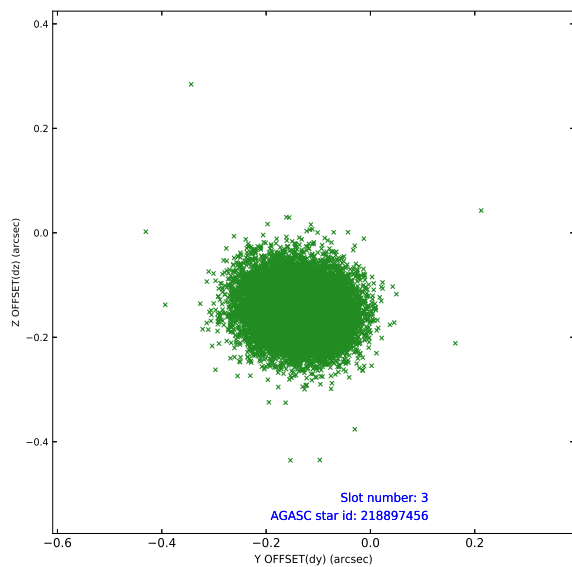
### Slot Statistics

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-2	7.10	7362	1.000	-0.041	-0.078	0.016	0.035	0.000000	0.000000	-761.26	-1733
1	FID		ACIS-S-4	7.20	7363	1.000	0.174	0.041	0.008	0.016	0.000000	0.000000	2152.17	174
2	FID		ACIS-S-5	7.23	7361	1.000	-0.163	0.047	0.016	0.033	0.000000	0.000000	-1814.16	168
3	GUIDE	used	218897456	8.87	14720	1.000	-0.133	-0.148	0.074	0.118	327.959264	17.146658	-2160.11	-1487
4	GUIDE	used	220074888	8.69	14718	1.000	0.066	-0.125	0.079	0.133	328.463360	16.092578	1936.33	-2289
5	GUIDE	used	220595632	9.29	14716	1.000	0.057	0.238	0.101	0.194	328.930788	17.108977	-102.11	1150
6	GUIDE	used	220071528	8.64	14722	1.000	0.100	-0.047	0.061	0.100	328.933551	16.712940	1064.03	330
7	GUIDE	used	220597856	9.32	14709	1.000	-0.087	0.083	0.097	0.152	329.110726	17.405179	-612.05	2273

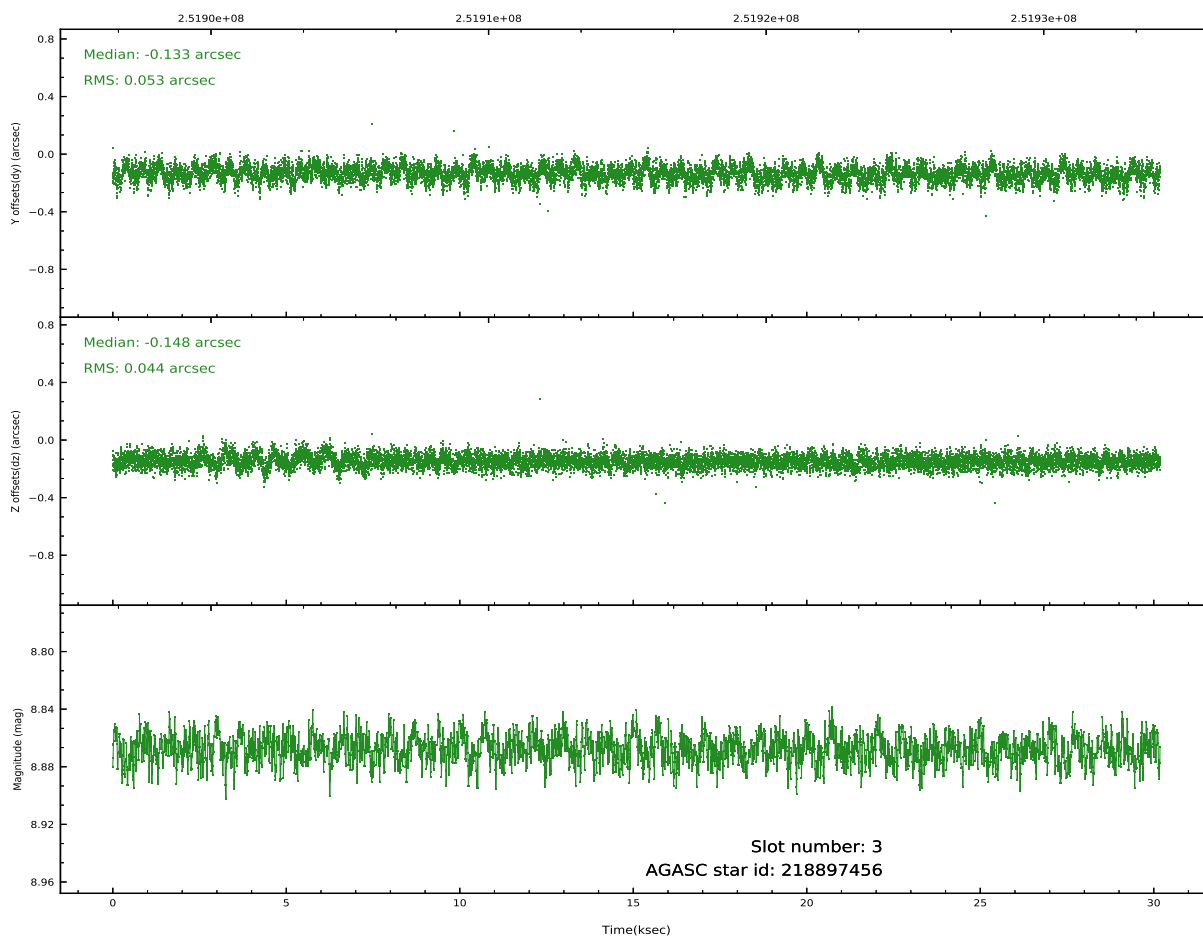
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## 2.4 Star Slots

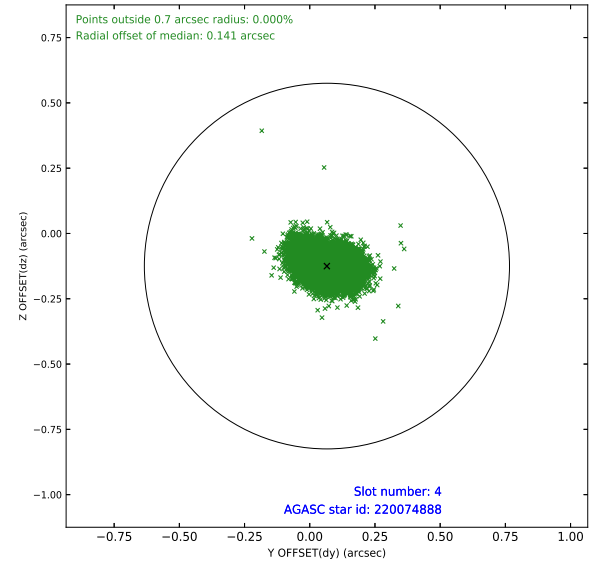
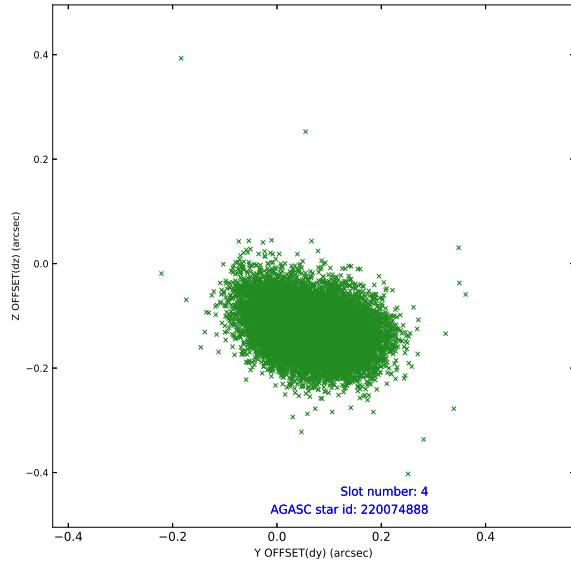
### 2.4.1 Slot 3



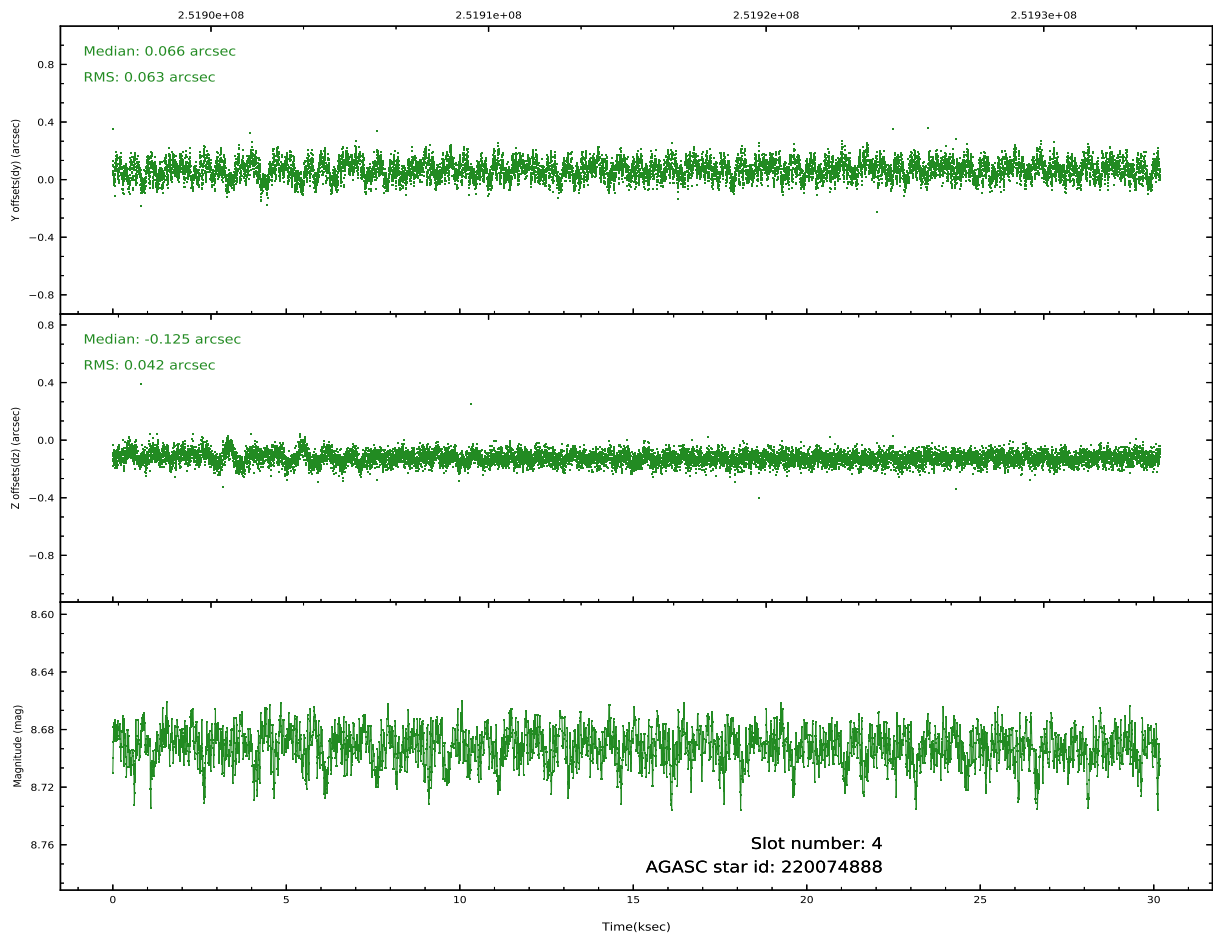
Time (s)



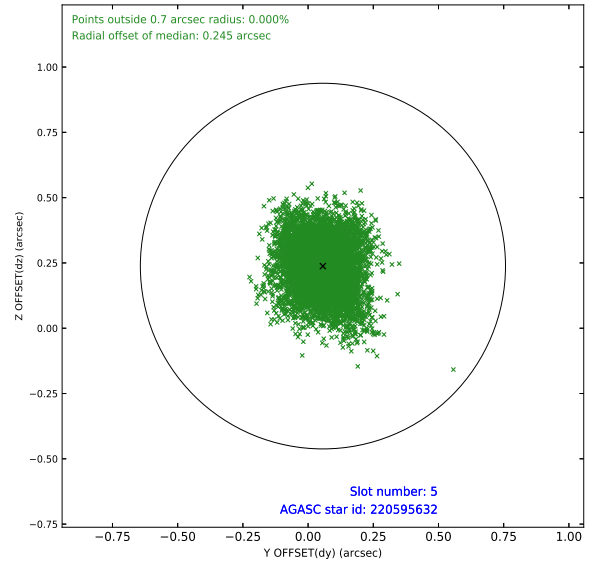
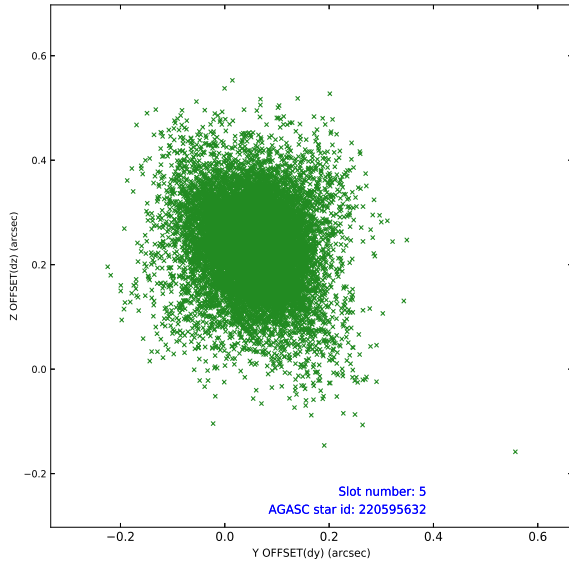
## 2.4.2 Slot 4



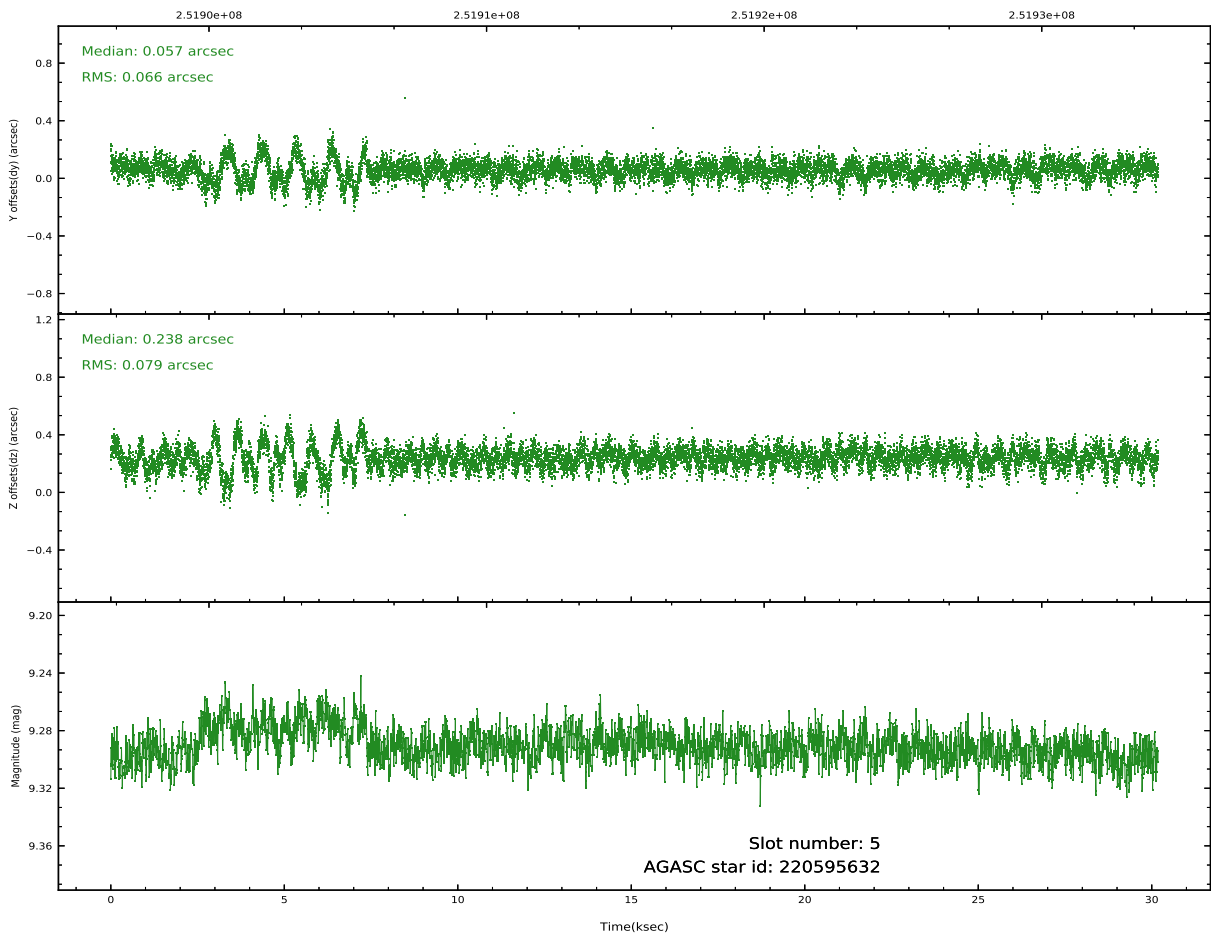
Time (s)



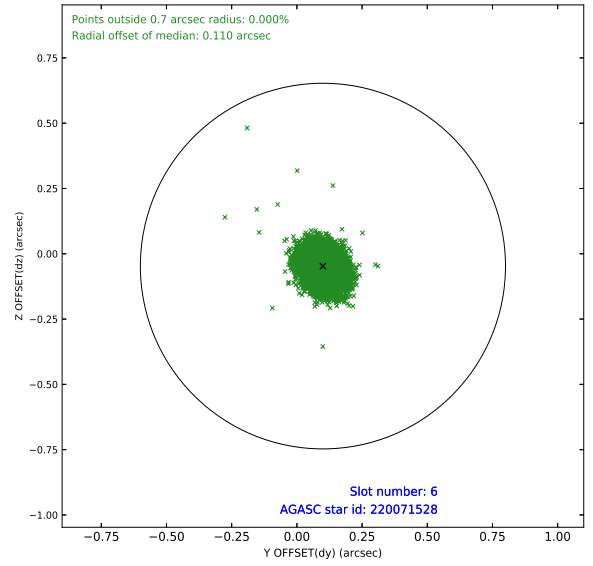
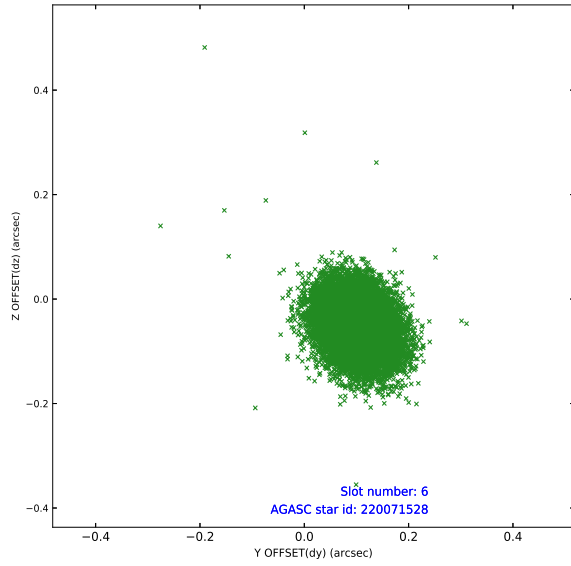
### 2.4.3 Slot 5



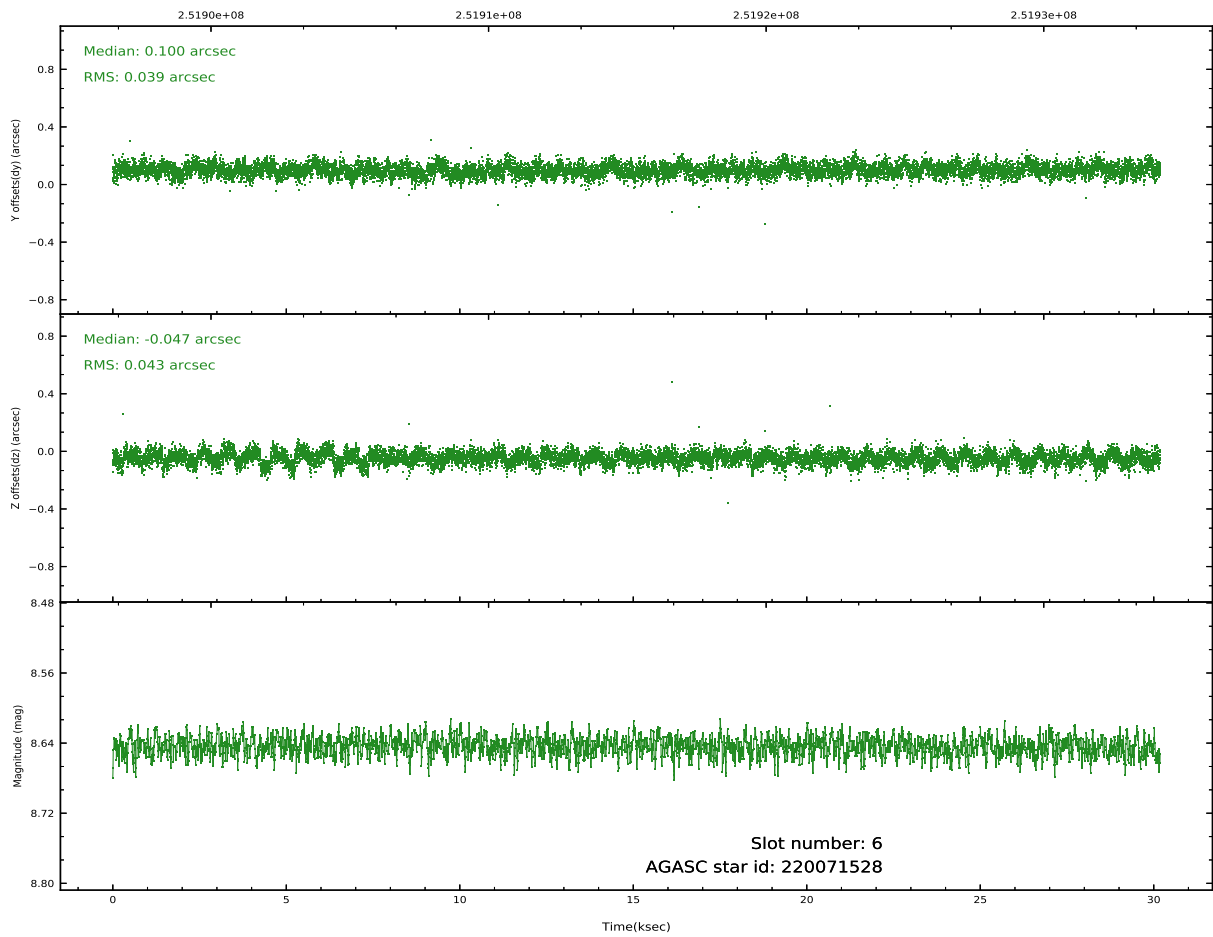
Time (s)



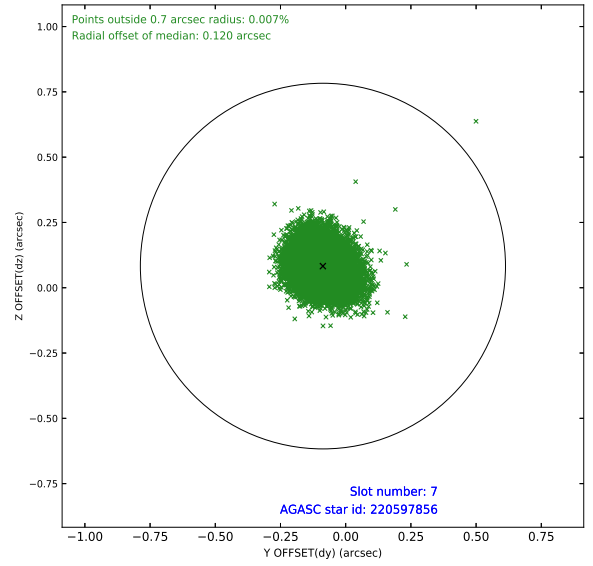
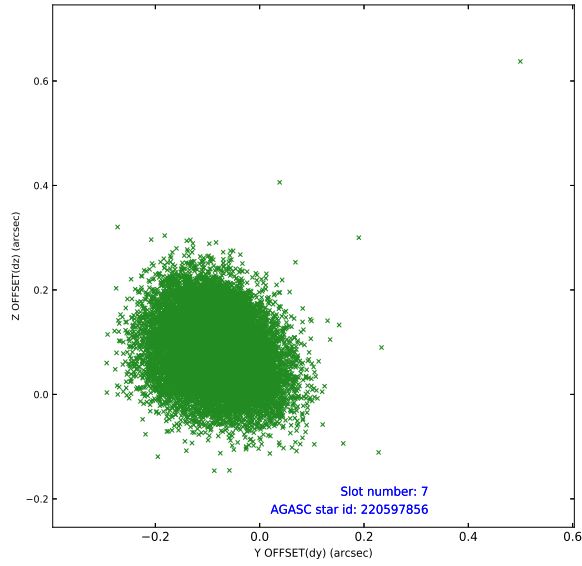
## 2.4.4 Slot 6



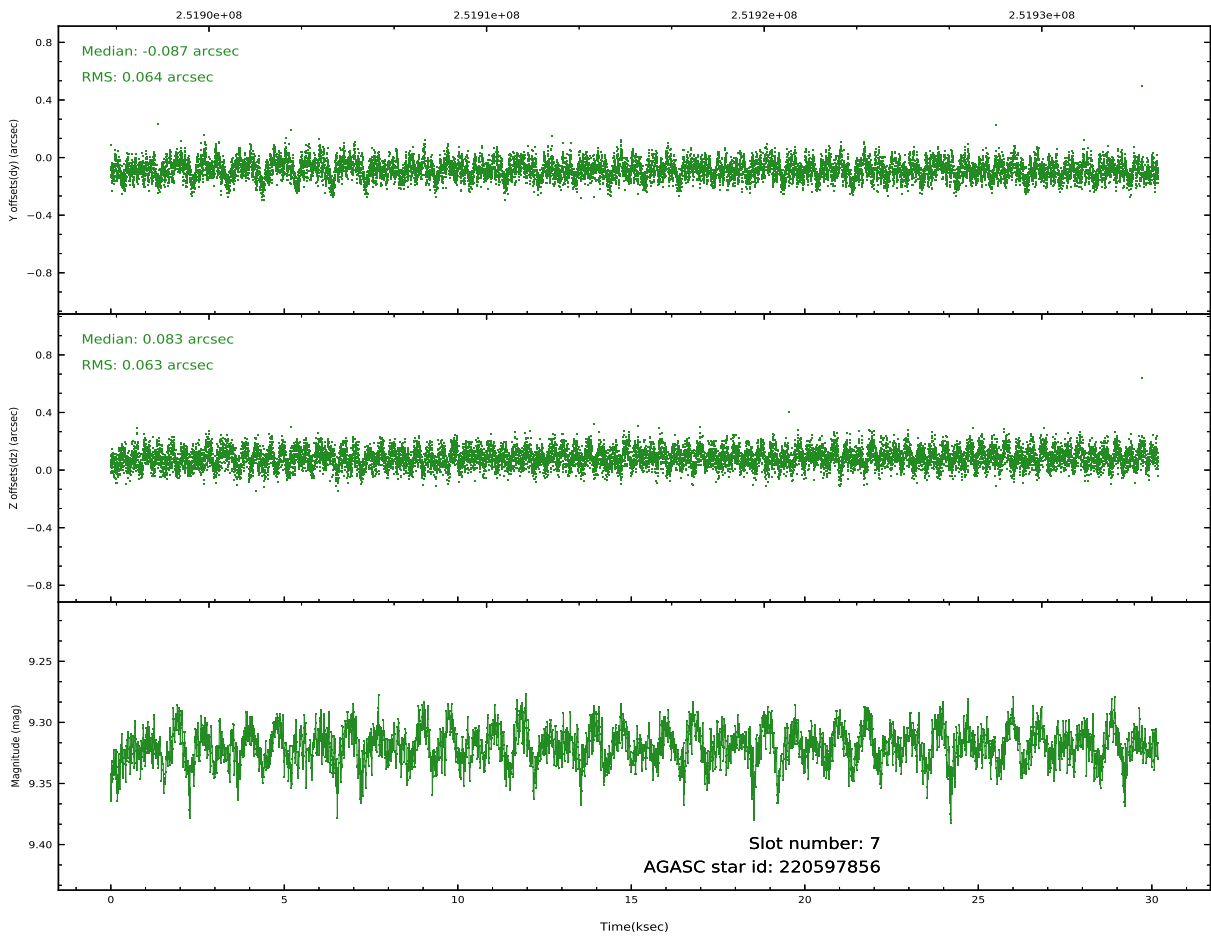
Time (s)



## 2.4.5 Slot 7

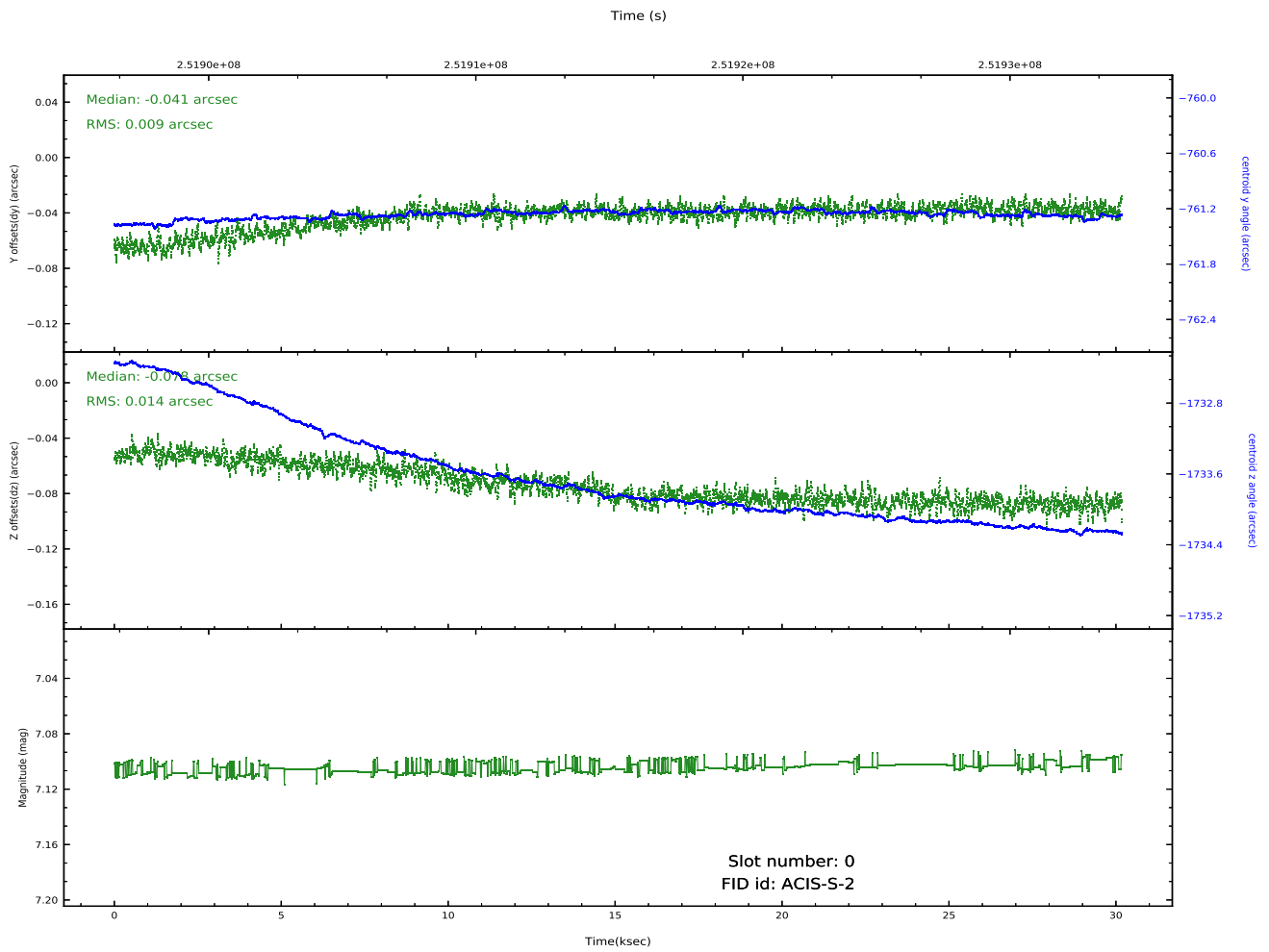
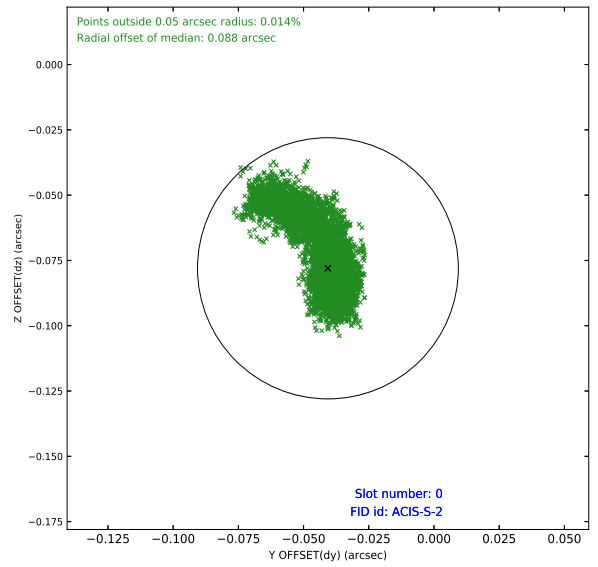
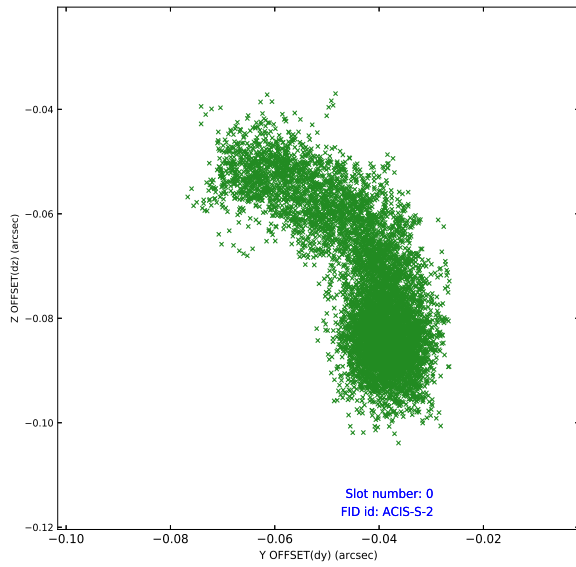


Time (s)

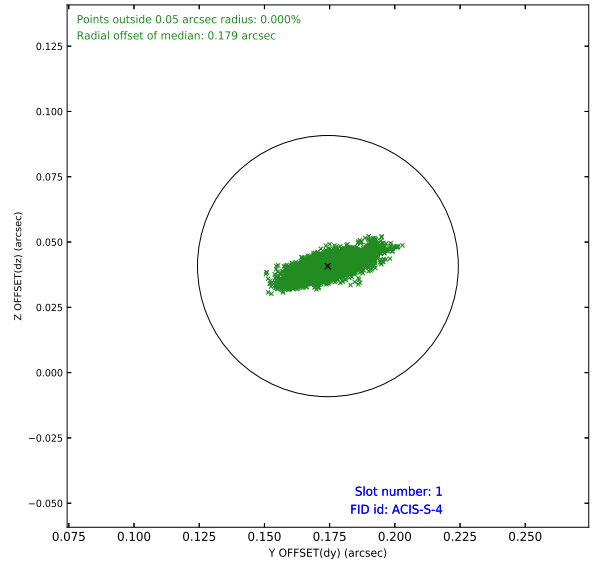
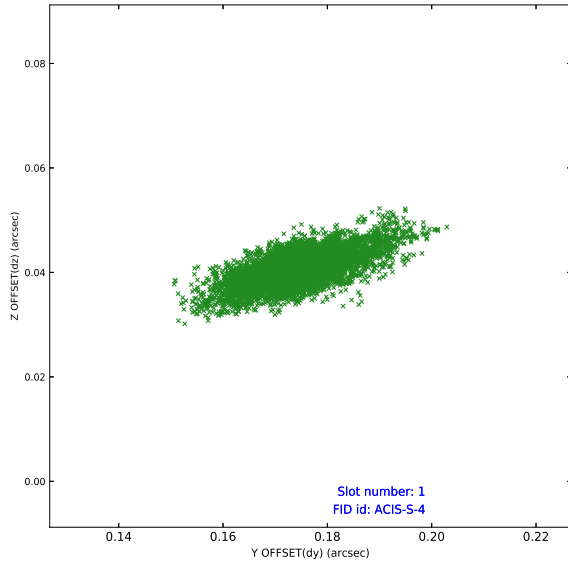


## 2.5 FID Slots

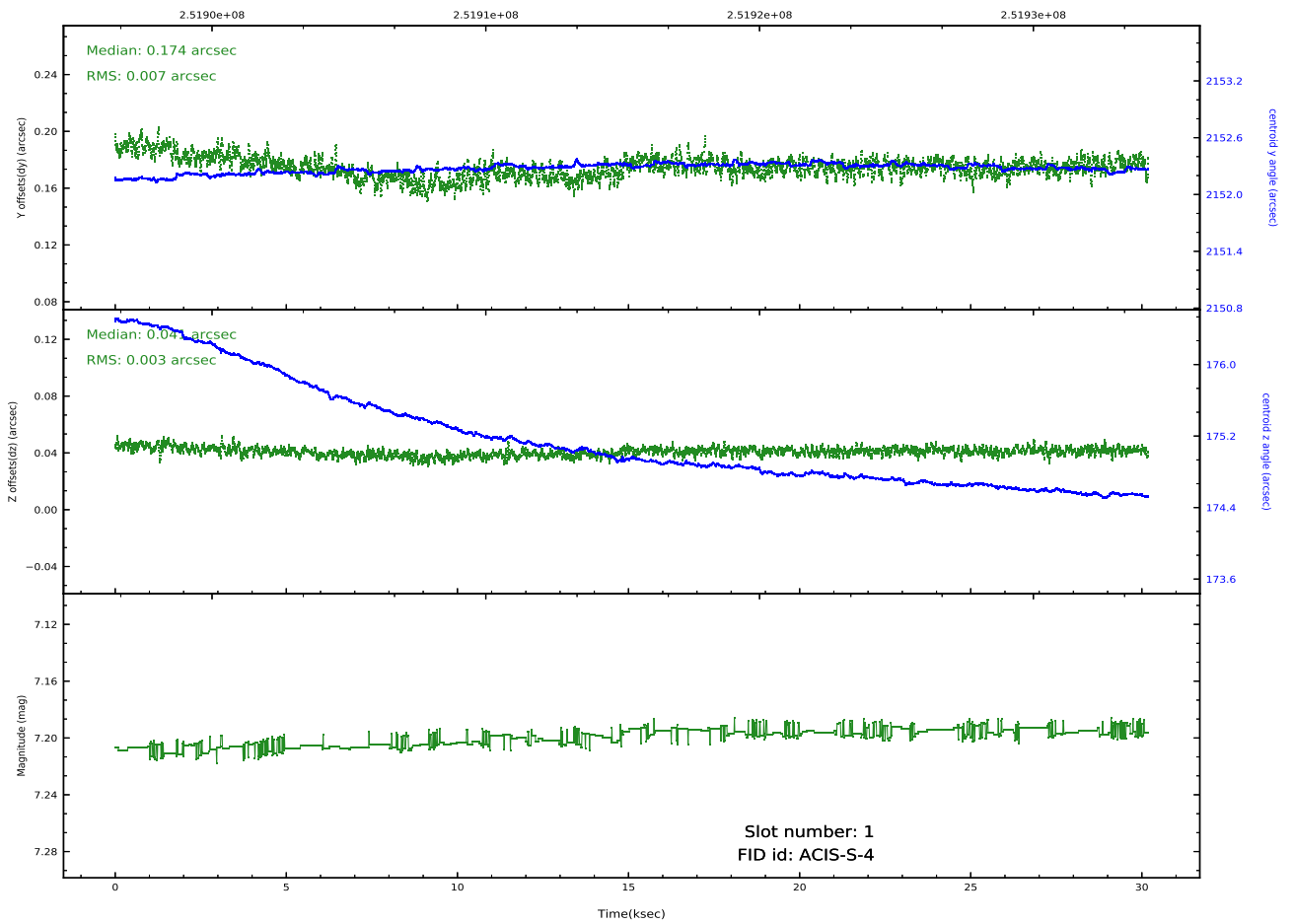
### 2.5.1 Slot 0



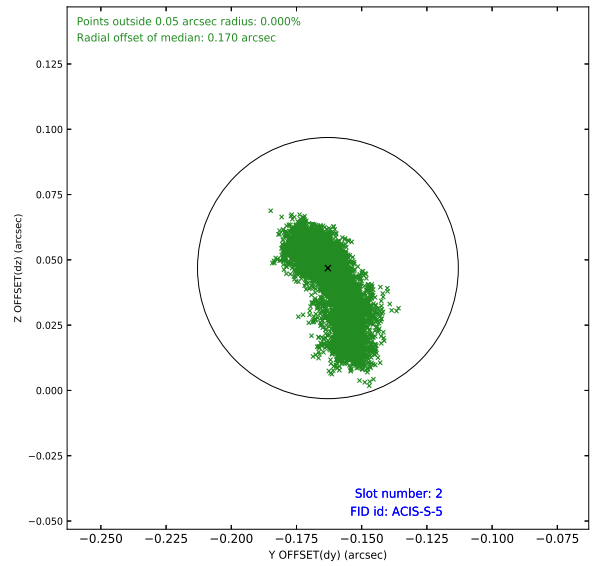
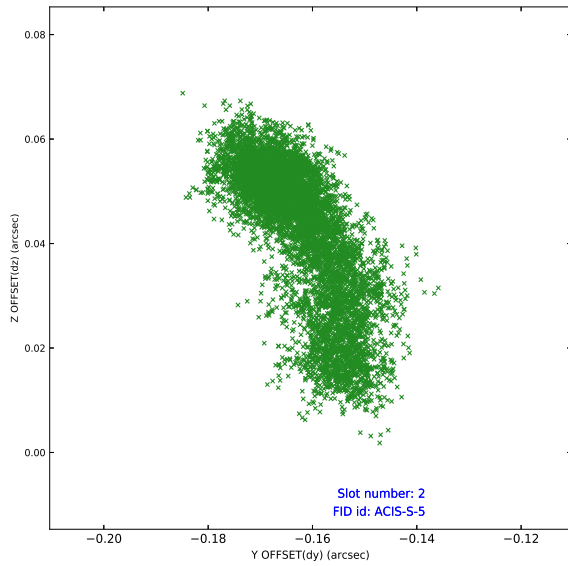
## 2.5.2 Slot 1



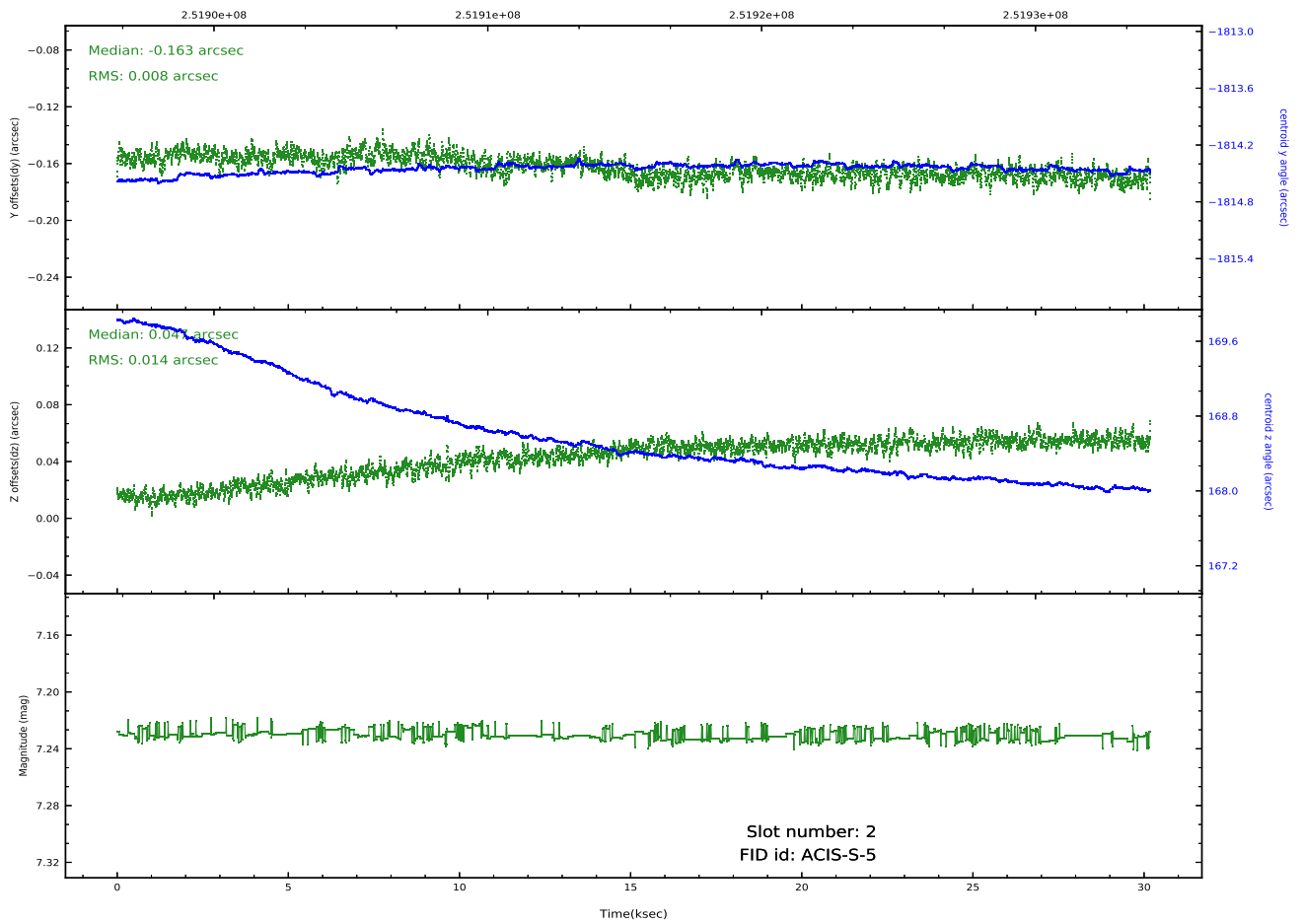
Time (s)



### 2.5.3 Slot 2



Time (s)



# 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	30.17919

## A.2 Comments