

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 4651 - L2 Version 4  
Chandra X-Ray Center

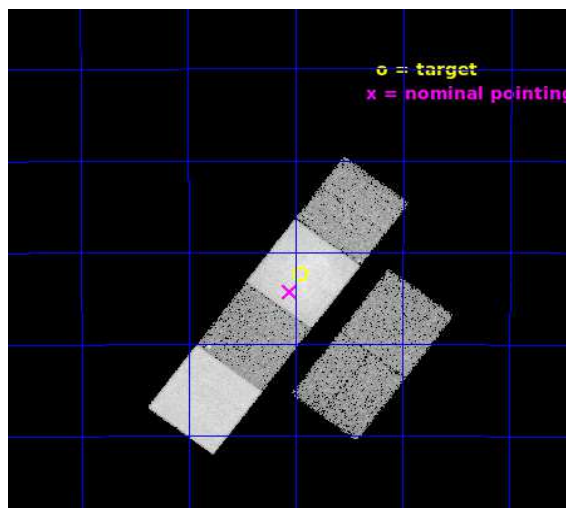
L2 Processing Date : Sep 26 2020

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Bias . . . . .	3
2.1.3	Parameters . . . . .	4
2.1.4	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Aspect . . . . .	6
2.4	Star Slots . . . . .	9
2.4.1	Slot 3 . . . . .	9
2.4.2	Slot 4 . . . . .	10
2.4.3	Slot 5 . . . . .	11
2.4.4	Slot 6 . . . . .	12
2.4.5	Slot 7 . . . . .	13
2.5	FID Slots . . . . .	14
2.5.1	Slot 0 . . . . .	14
2.5.2	Slot 1 . . . . .	15
2.5.3	Slot 2 . . . . .	16
<b>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

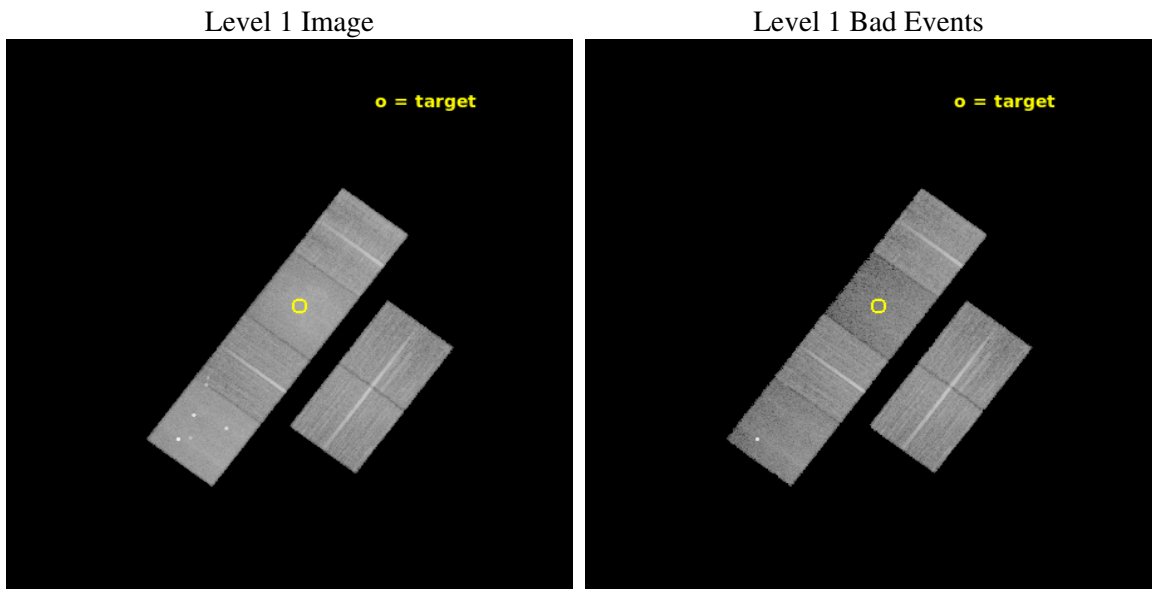
seq_num	500470	Sequence number
obs_id	4651	Observation id
title	Chandra Studies of New Galactic Ejecta-Dominated SNRS	Proposal tit
observer	John P. Hughes	Principal investigator
object	SNR G344.7-0.1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	255.9875	Observer's specified target RA [deg]
dec_targ	-41.705417	Observer's specified target Dec [deg]
ra_nom	256.01351175895	Nominal RA [deg]
dec_nom	-41.738258744026	Nominal Dec [deg]
roll_nom	306.77289526653	Nominal Roll [deg]
revision	4	Processing version of data
ontime	21020.799921691	Sum of GTIs [s]
livetime	20754.621895877	Livetime [s]
ontime2	21020.799921691	Sum of GTIs [s]
ontime3	21020.799921691	Sum of GTIs [s]
ontime5	21020.799921691	Sum of GTIs [s]
ontime6	21017.558941394	Sum of GTIs [s]
ontime7	21020.799921691	Sum of GTIs [s]
ontime8	21020.799921691	Sum of GTIs [s]
l2events	219260	Number of level 2 events



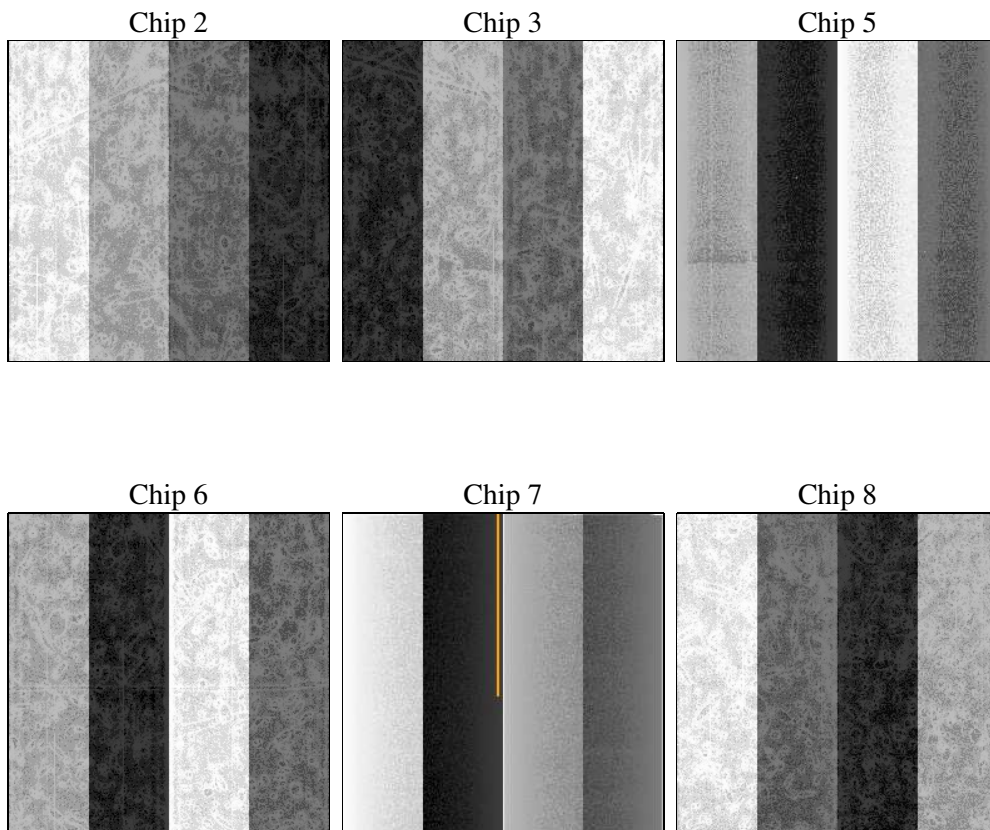
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	21065.080000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	21020.799921691	Sum of GTIs [s]
caldbver	4.9.2	&#160	ontime2	21020.799921691	Sum of GTIs [s]
date	2020-09-26T20:37:31	Date and time of file creation	ontime3	21020.799921691	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	21020.799921691	Sum of GTIs [s]
			ontime6	21017.558941394	Sum of GTIs [s]
			ontime7	21020.799921691	Sum of GTIs [s]
			ontime8	21020.799921691	Sum of GTIs [s]
			l1events	846201	Number of level 1 events

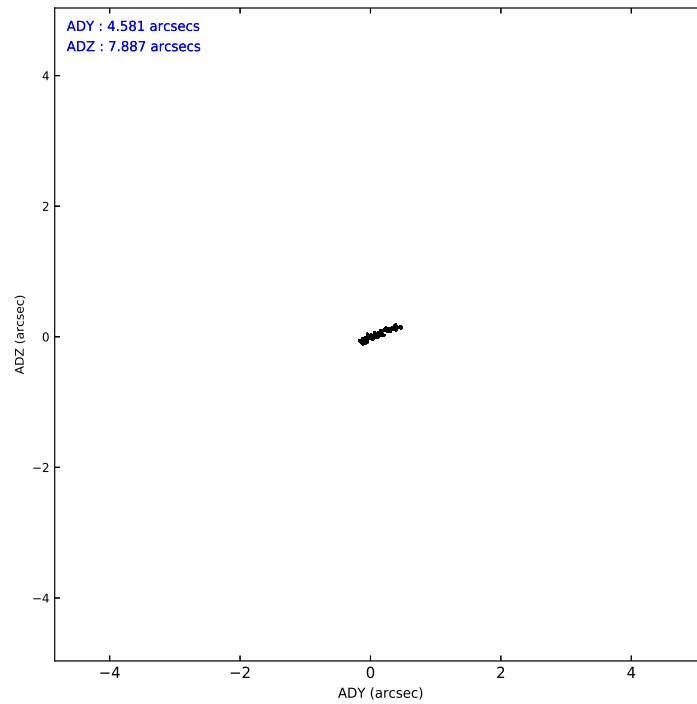
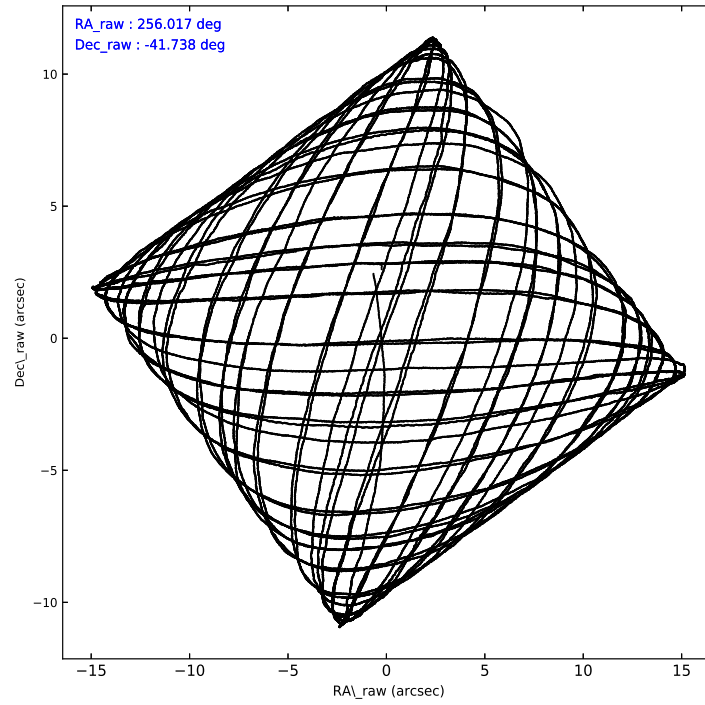
### 2.1.4 Events

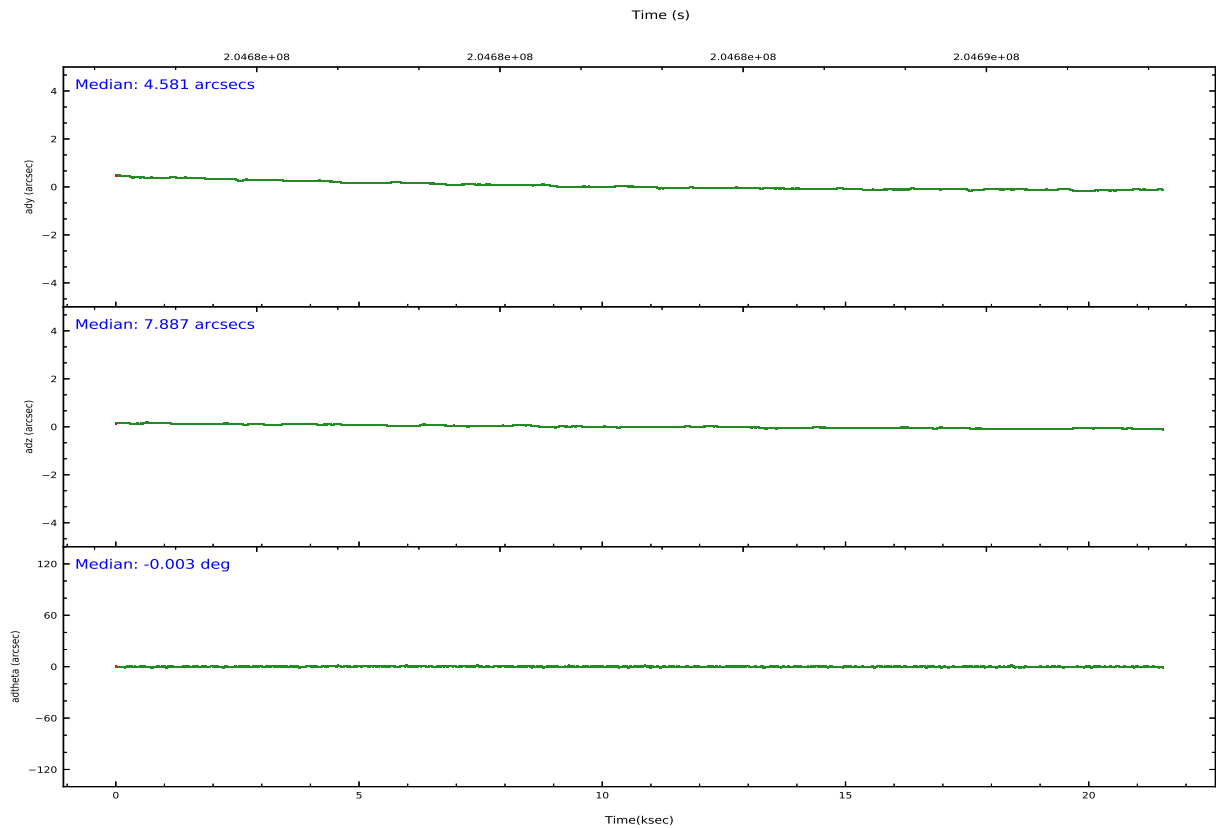
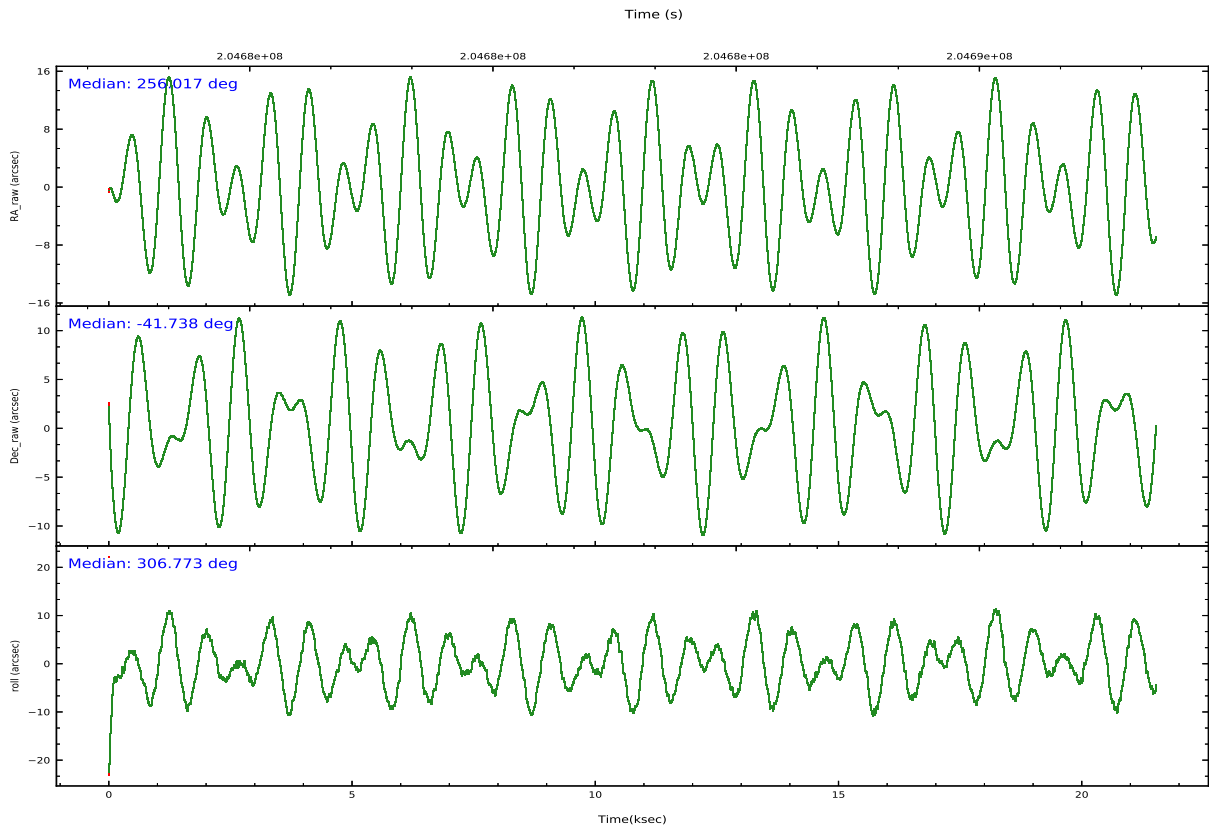
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	133278	122402	166616	123229	149428	151248	grade 0 events	5773	5385	12986	6916	11894	11606
rejected events	119880	109770	75483	107915	58134	113459		4%	4%	7%	5%	7%	7%
rejected %	89%	89%	45%	87%	38%	75%	grade 1 events	72	77	189	60	128	129
								0%	0%	0%	0%	0%	0%
							grade 2 events	2926	2478	27194	2937	20324	8556
								2%	2%	16%	2%	13%	5%
							grade 3 events	1297	1345	4232	1448	9379	3951
								0%	1%	2%	1%	6%	2%
							grade 4 events	1309	1338	4150	1413	9375	3704
								0%	1%	2%	1%	6%	2%
							grade 5 events	3495	4023	12469	4131	12731	6023
								2%	3%	7%	3%	8%	3%
							grade 6 events	2097	2089	42602	2604	40348	9989
								1%	1%	25%	2%	27%	6%
							grade 7 events	116309	105667	62794	103720	45249	107290
								87%	86%	37%	84%	30%	70%

## 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	255.983380	256.01351175895	Subarray requested	NONE	NONE
[deg] Pointing Dec	-41.727542	-41.738258744026	Alternating exposures requested	N	N
[deg] Pointing Roll	306.597253	306.77289526653	[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)	204672568.184000	204671466.62318			
Observation start date	2004-06-26T21:28:24	2004-06-26T21:11:06			
[s] Observation end time (MET)	204693633.184000	204693851.59917			
Observation end date	2004-06-27T03:19:29	2004-06-27T03:24:11			
Read mode	TIMED	TIMED			

## 2.3 Aspect



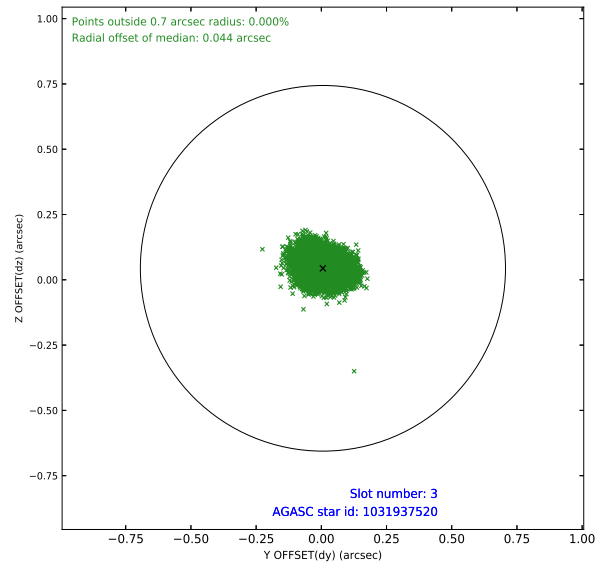
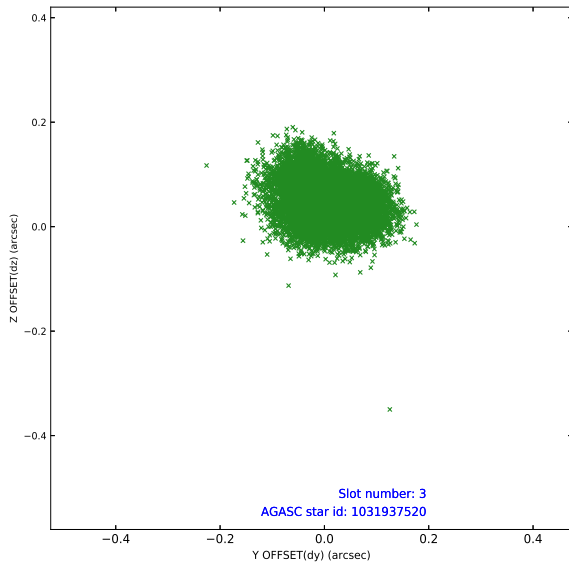


### Slot Statistics

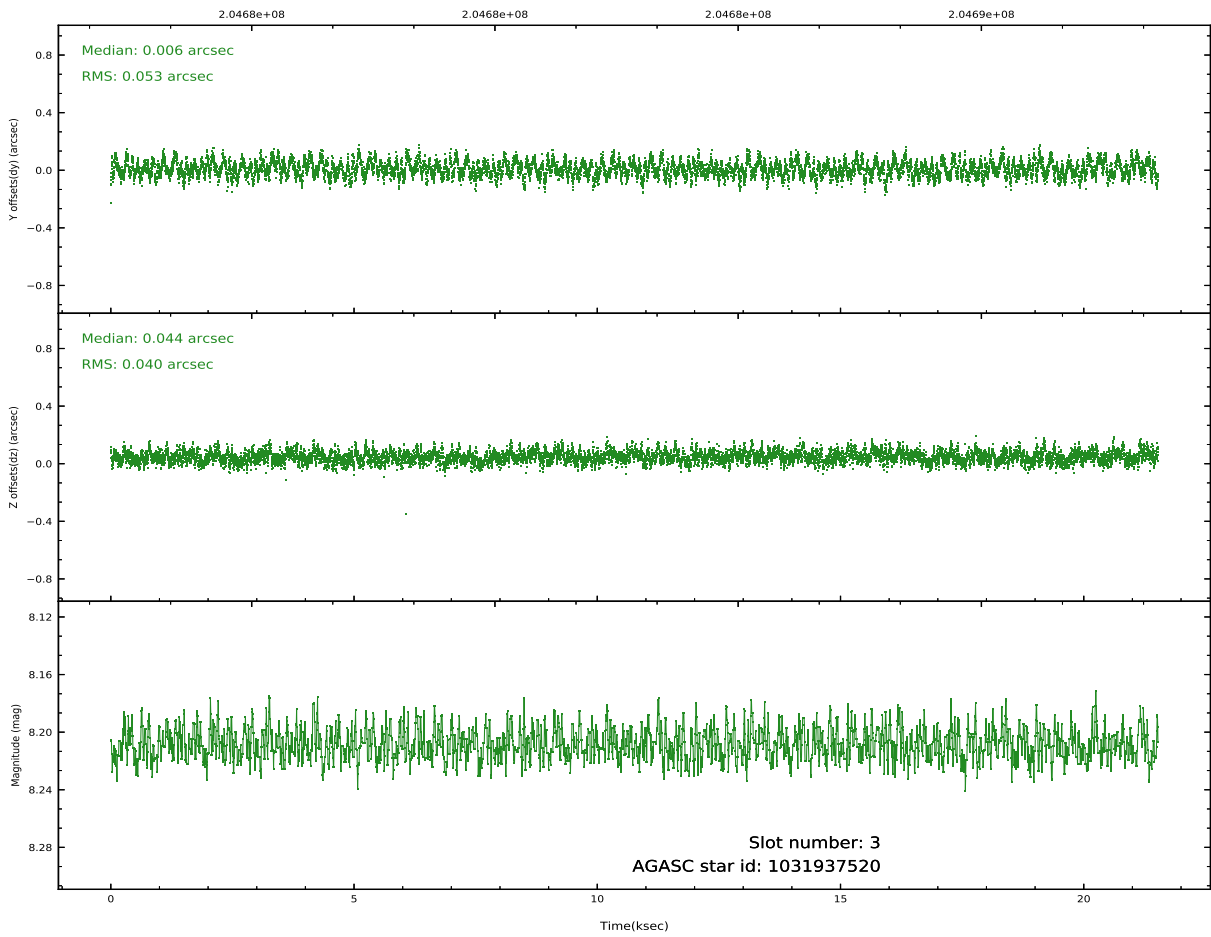
slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-2	7.11	5251	1.000	-0.119	-0.091	0.006	0.011	0.000000	0.000000	-757.46	-1729
1	FID		ACIS-S-4	7.21	5248	1.000	0.086	0.068	0.007	0.011	0.000000	0.000000	2155.97	179
2	FID		ACIS-S-6	7.35	5251	1.000	0.004	0.030	0.008	0.013	0.000000	0.000000	404.89	816
3	GUIDE	used	1031937520	8.21	10499	1.000	0.006	0.044	0.072	0.114	256.333720	-41.104608	-1232.46	2099
4	GUIDE	used	1032458288	9.12	10501	1.000	-0.096	0.010	0.082	0.133	255.516912	-42.294354	900.62	-2215
5	GUIDE	used	1032462424	8.02	10502	1.000	-0.089	0.044	0.063	0.097	257.030418	-41.723974	1681.19	2254
6	GUIDE	used	1032466120	9.15	10497	1.000	-0.006	-0.047	0.086	0.137	255.616572	-41.318828	-1770.54	79
7	GUIDE	used	1032459328	9.30	10495	1.000	0.180	-0.056	0.089	0.145	256.299221	-42.004804	1306.53	82

## 2.4 Star Slots

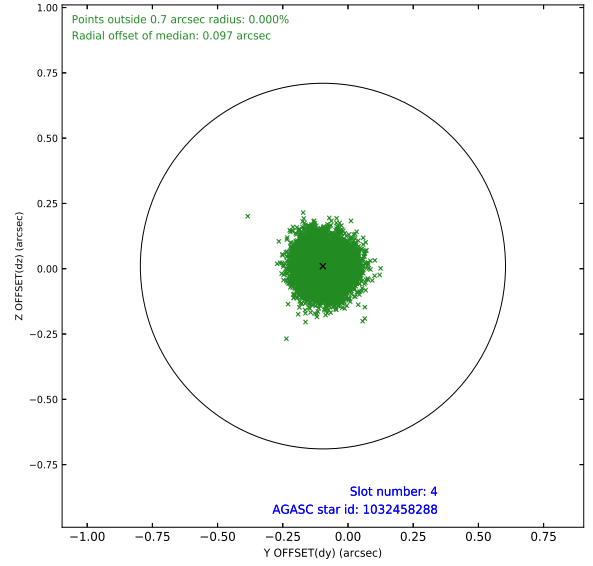
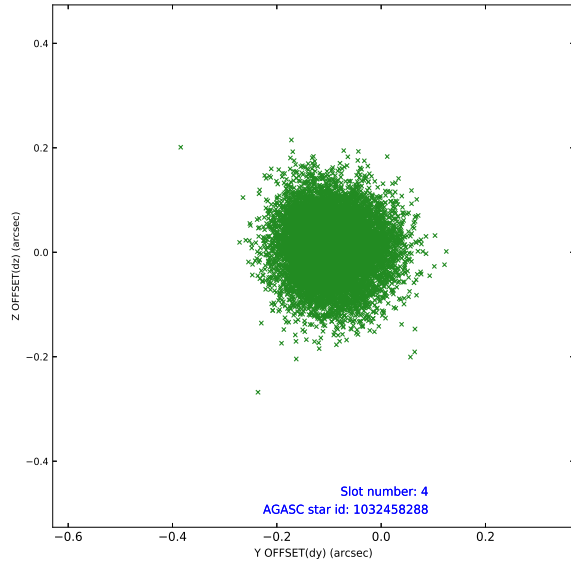
### 2.4.1 Slot 3



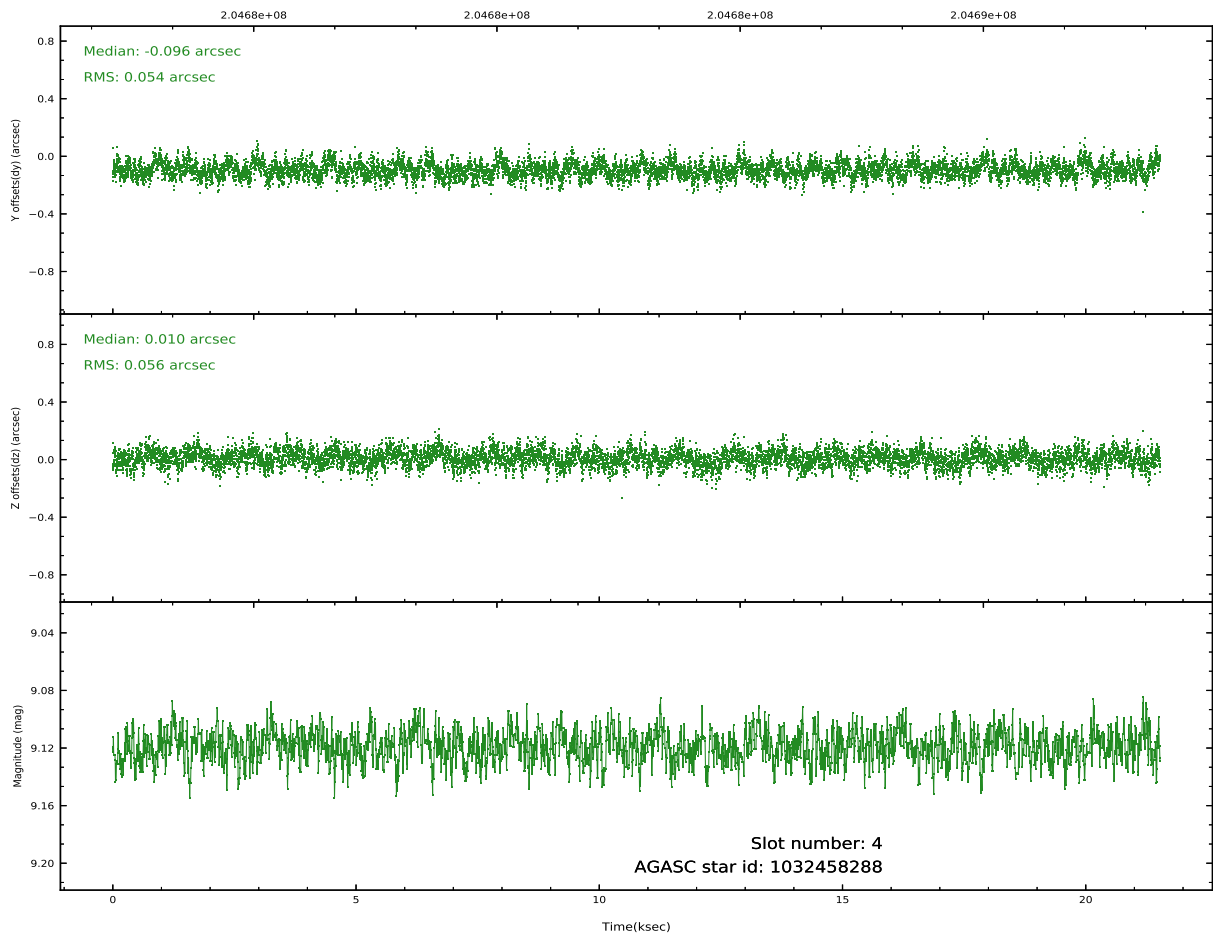
Time (s)



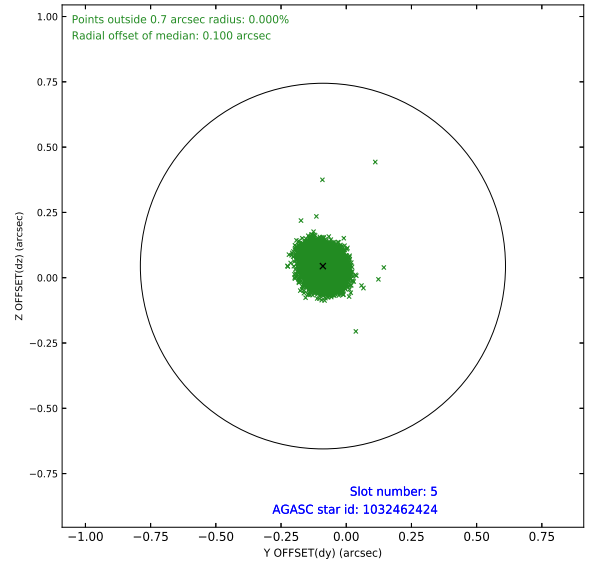
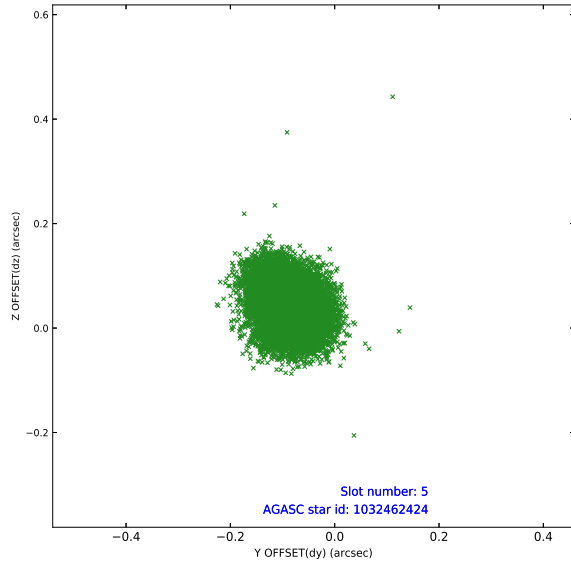
## 2.4.2 Slot 4



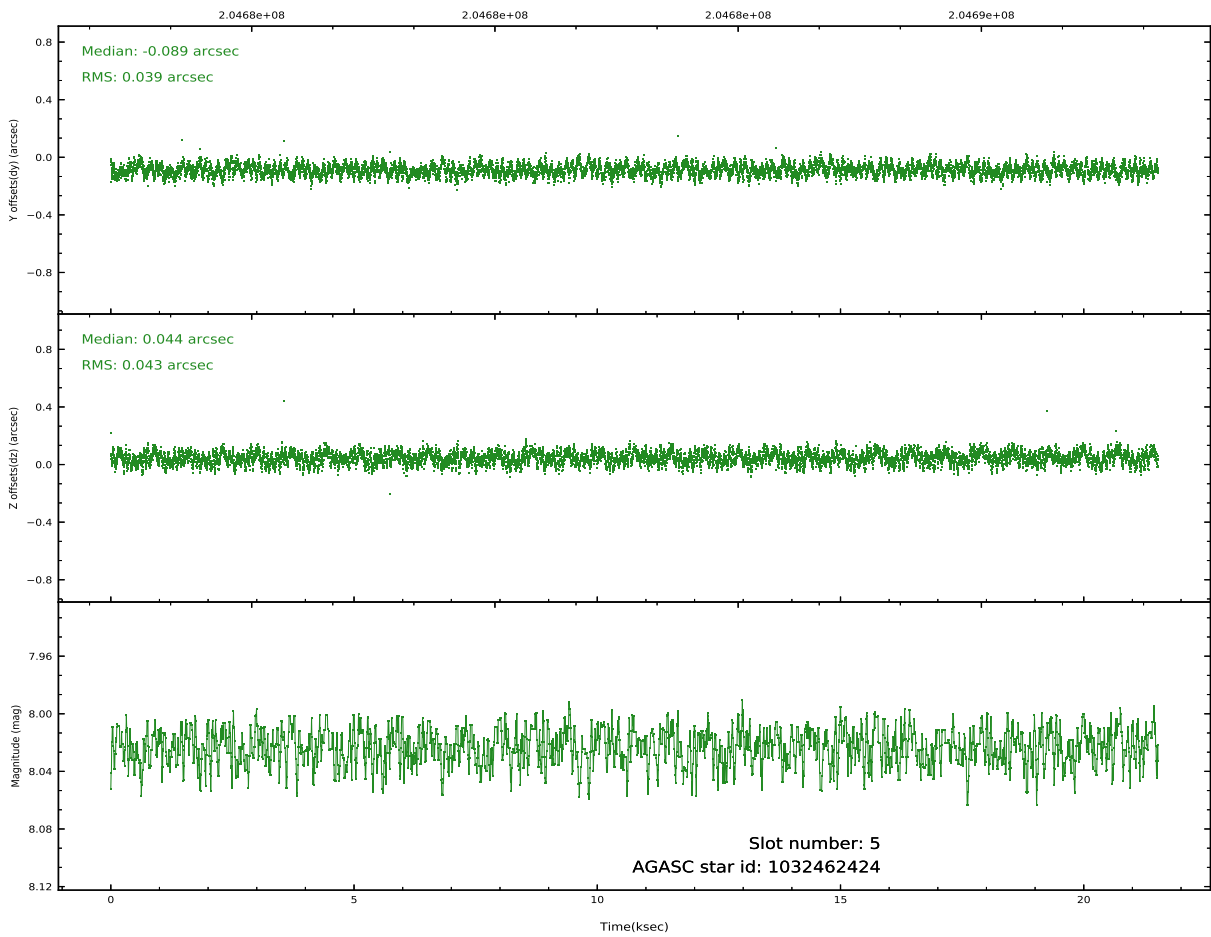
Time (s)



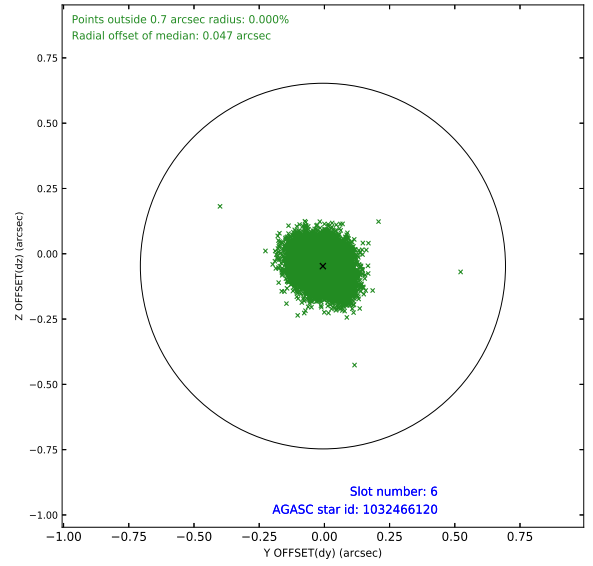
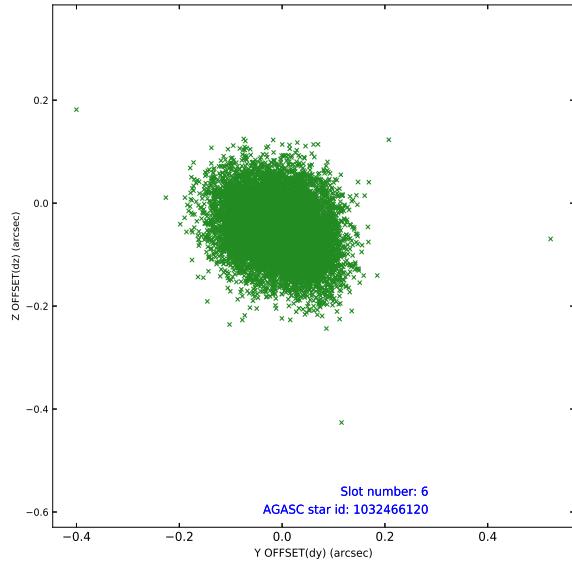
### 2.4.3 Slot 5



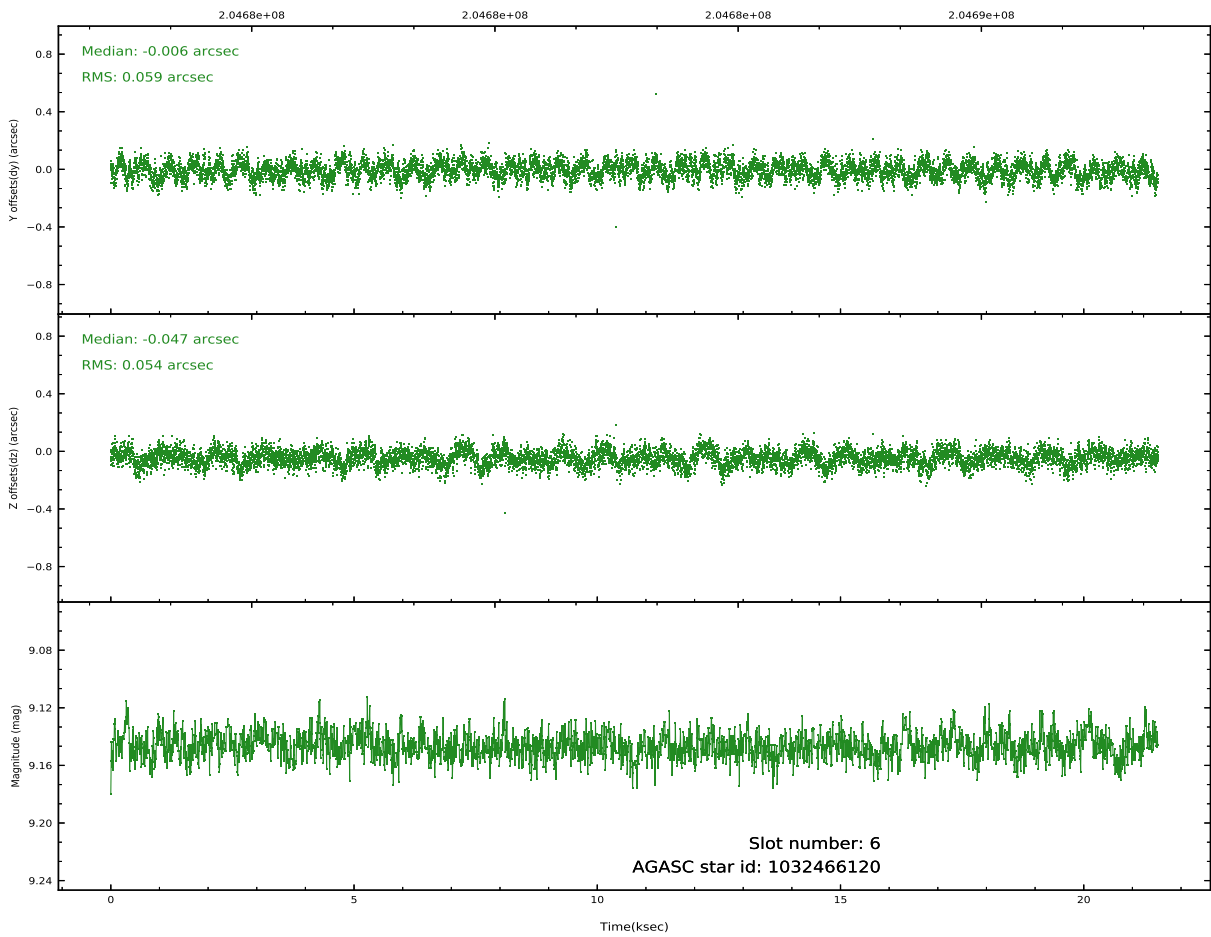
Time (s)



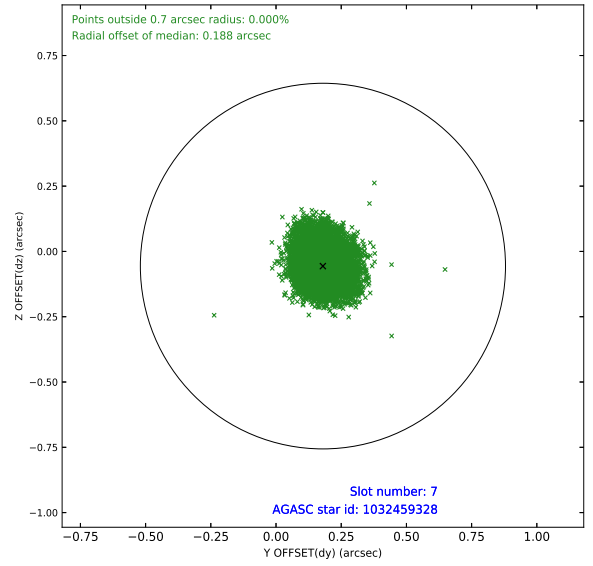
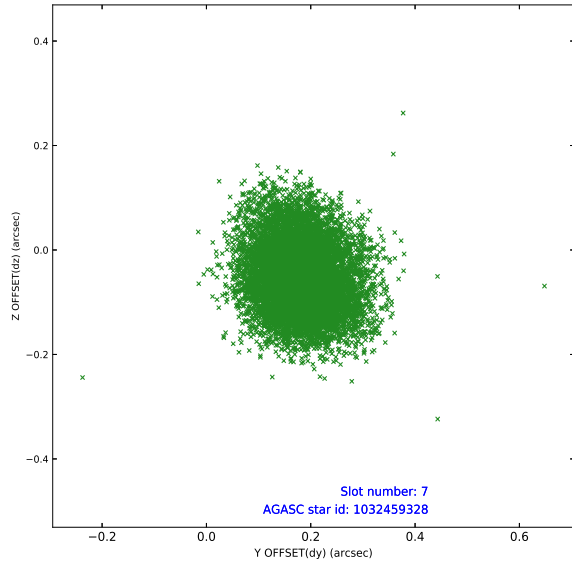
## 2.4.4 Slot 6



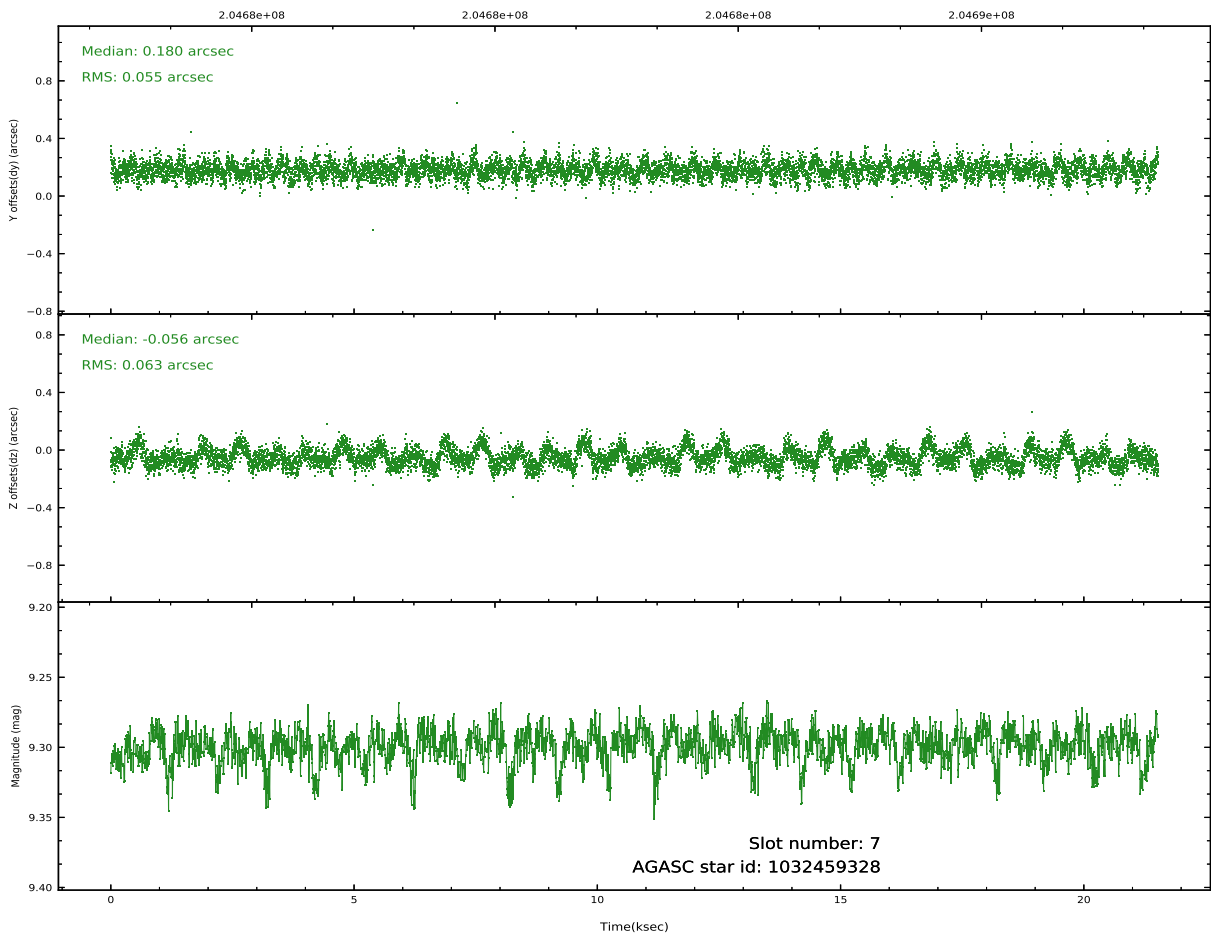
Time (s)



## 2.4.5 Slot 7

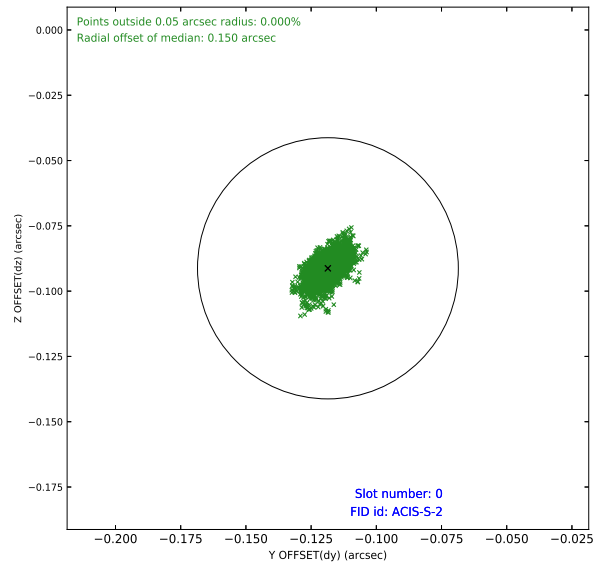
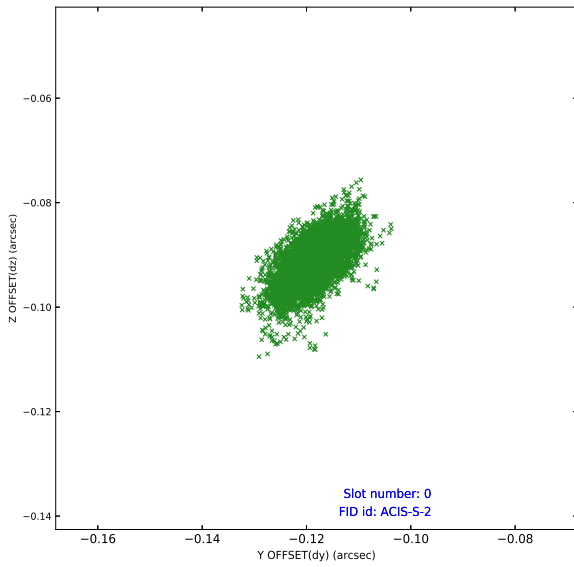


Time (s)

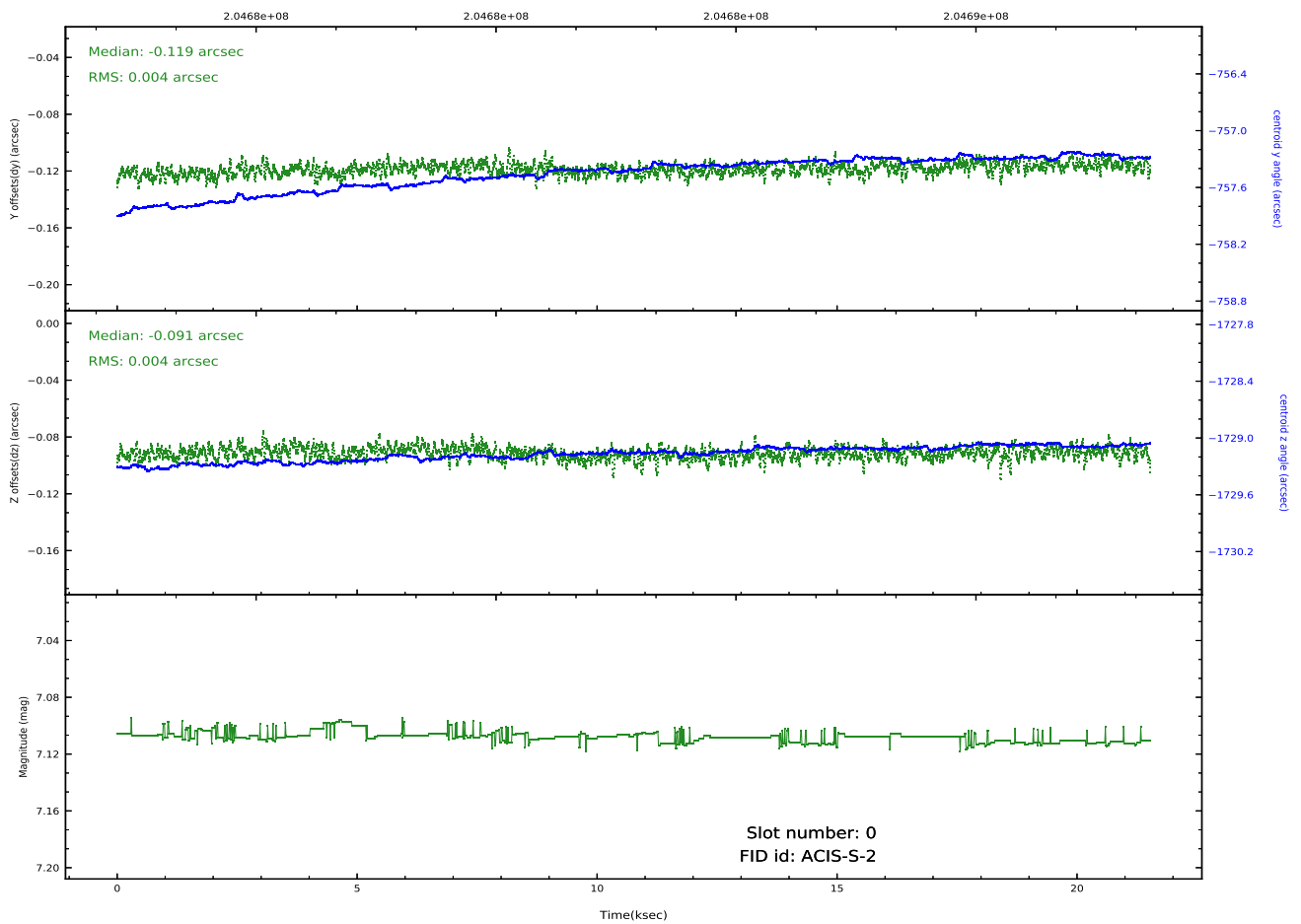


## 2.5 FID Slots

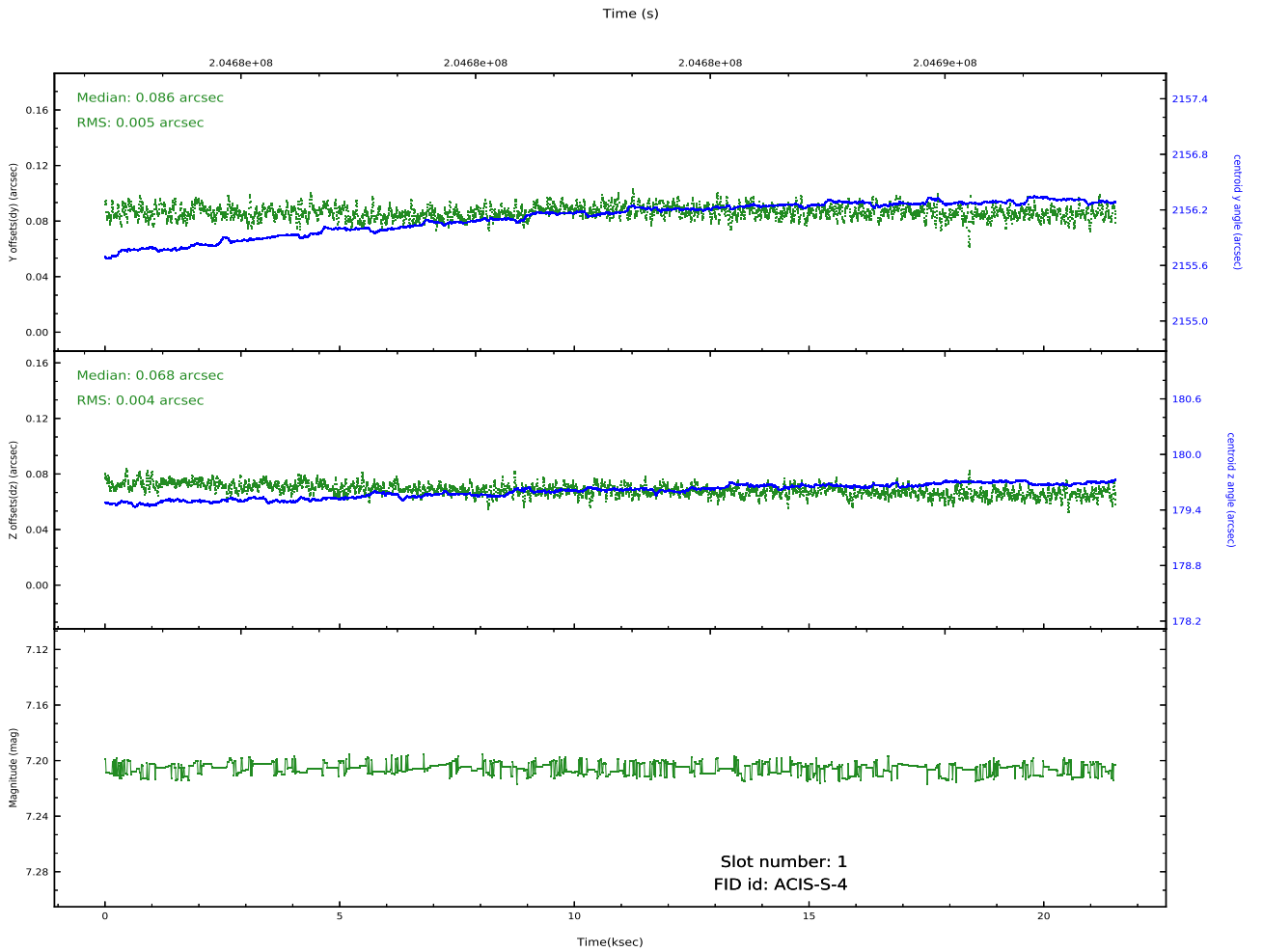
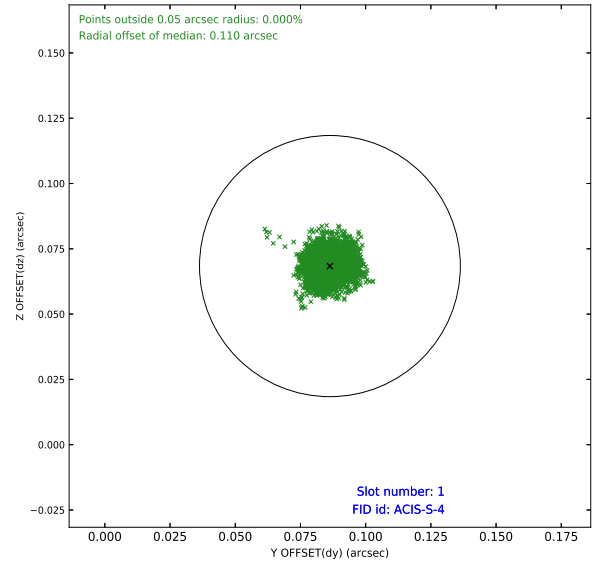
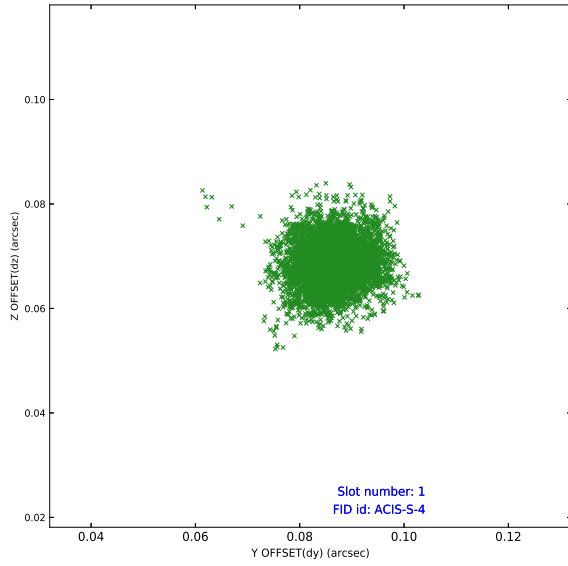
### 2.5.1 Slot 0



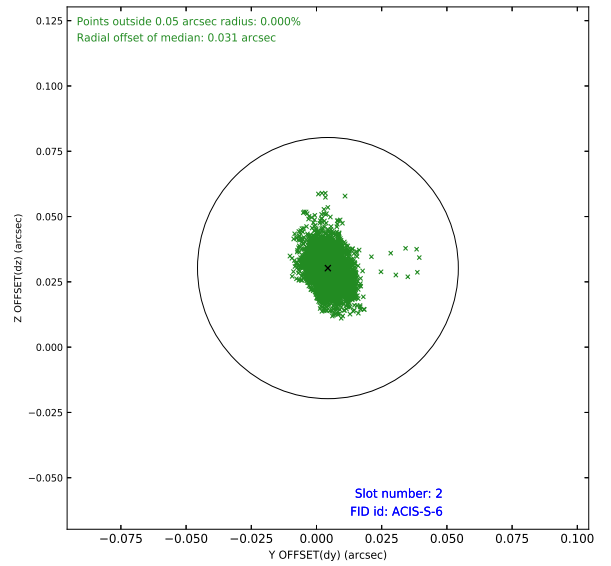
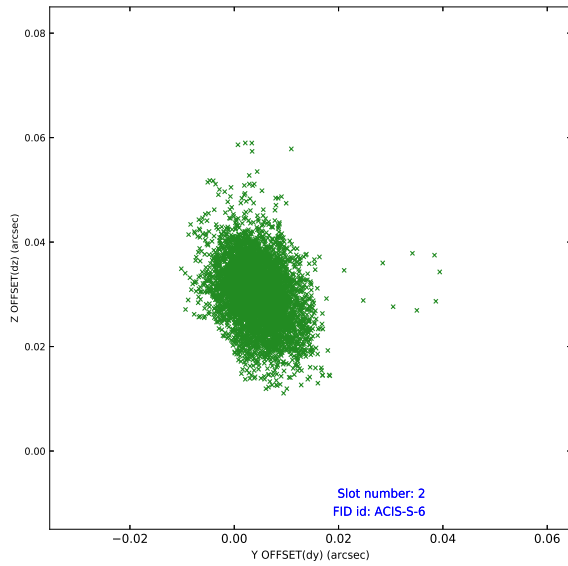
Time (s)



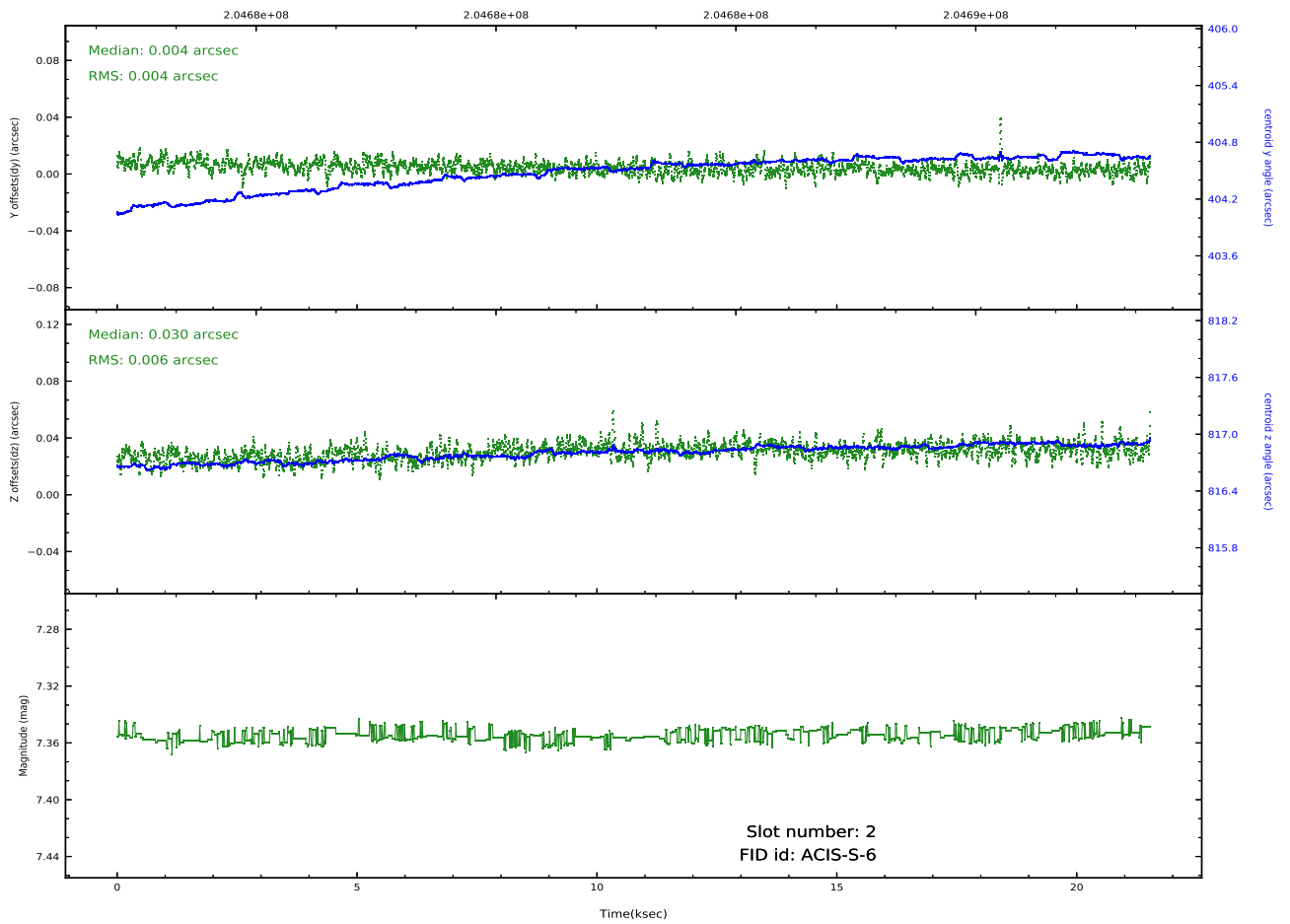
## 2.5.2 Slot 1



### 2.5.3 Slot 2



Time (s)



# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.09.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	21.02

## A.2 Comments