

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 5671 - L2 Version 4  
Chandra X-Ray Center

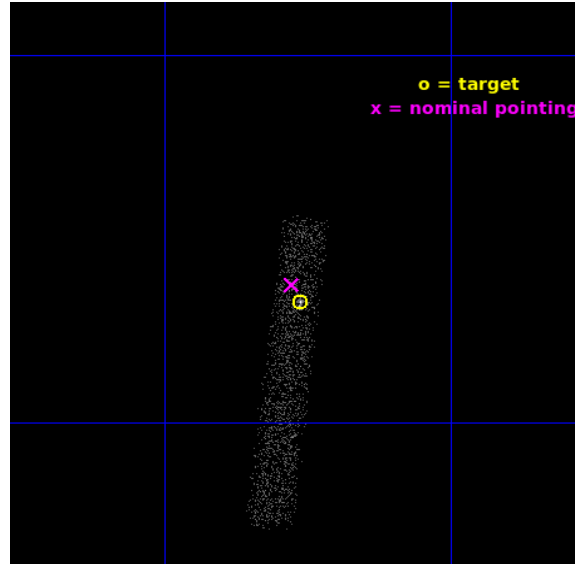
L2 Processing Date : Oct 7 2020

## 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

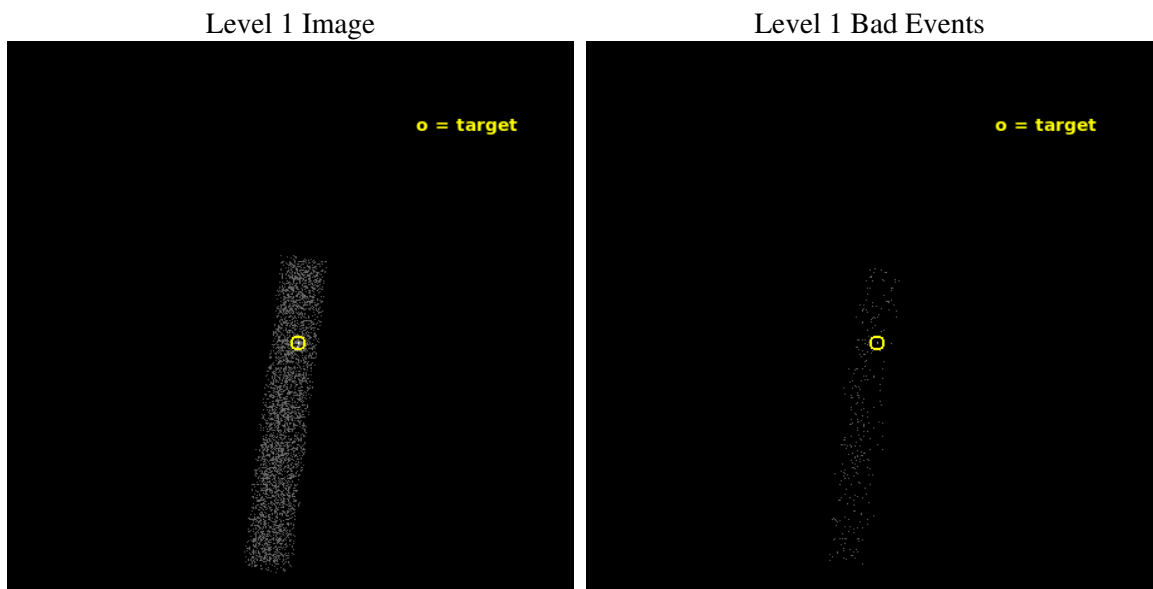
seq_num	701094	Sequence number
obs_id	5671	Observation id
title	Gems in the Chandra Deep Fields: The Nature of Optically Passive X-ray Galaxies (aka XBONGs)	Proposal title
observer	Dr. Sally Laurent-Muehleisen	Principal investigator
object	RGB1512+020A	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	228.065833	Observer's specified target RA [deg]
dec_targ	2.054722	Observer's specified target Dec [deg]
ra_nom	228.06925380679	Nominal RA [deg]
dec_nom	2.0624018972066	Nominal Dec [deg]
roll_nom	96.710159017594	Nominal Roll [deg]
revision	4	Processing version of data
ontime	3186.8000474572	Sum of GTIs [s]
livetime	2890.2594299449	Livetime [s]
ontime7	3186.8000474572	Sum of GTIs [s]
l2events	2775	Number of level 2 events



## 2 OBI

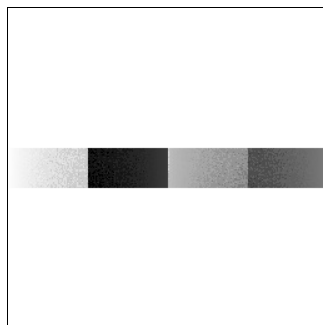
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	3186.8000474572	Sum of GTIs [s]
caldsver	4.9.2	&#160	ontime7	3186.8000474572	Sum of GTIs [s]
date	2020-10-07T12:16:32	Date and time of file creation	l1events	5889	Number of level 1 events
revision	4	Processing version of data			

### 2.1.4 Events

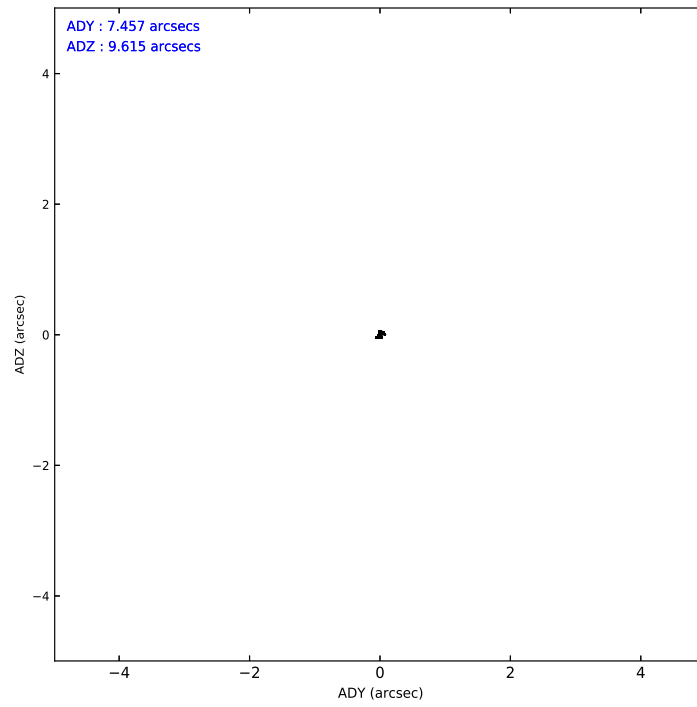
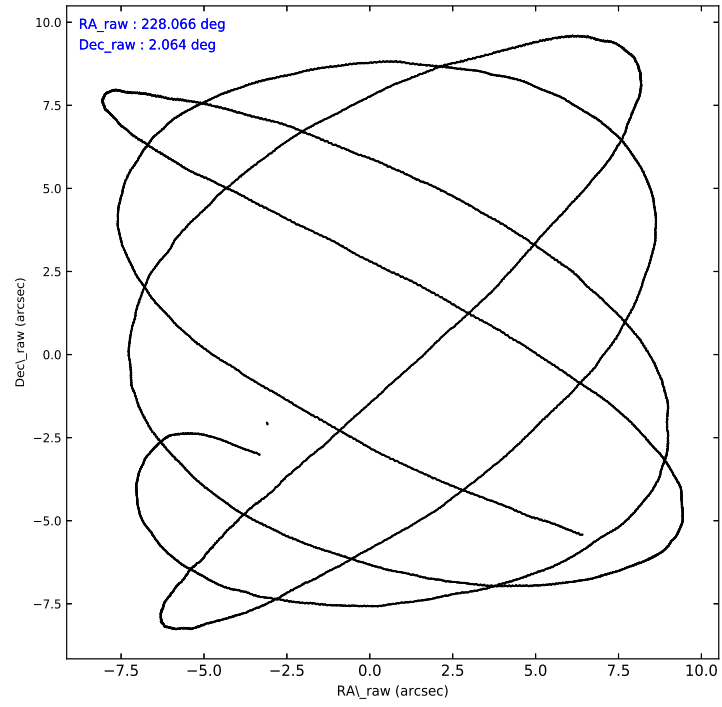
	<b>ccd 7</b>
level 1 events	5889
rejected events	2987
rejected %	50%

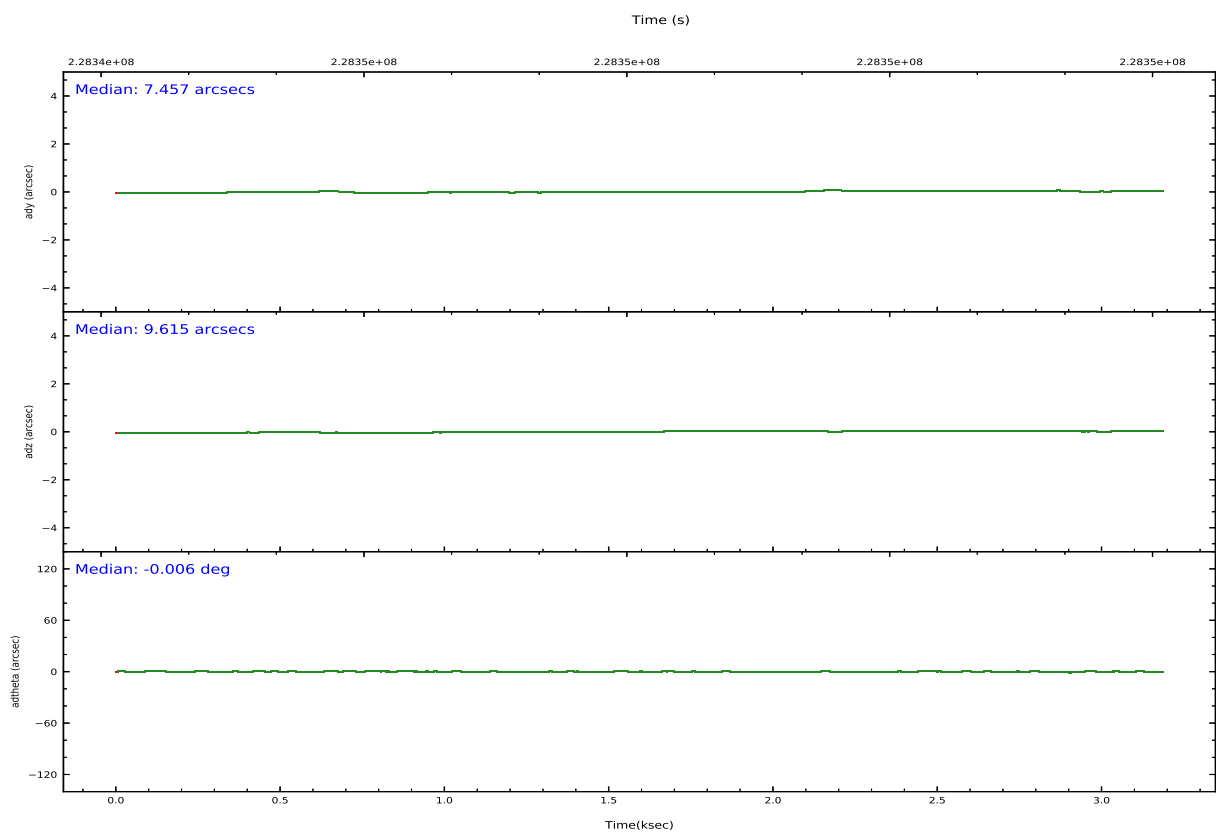
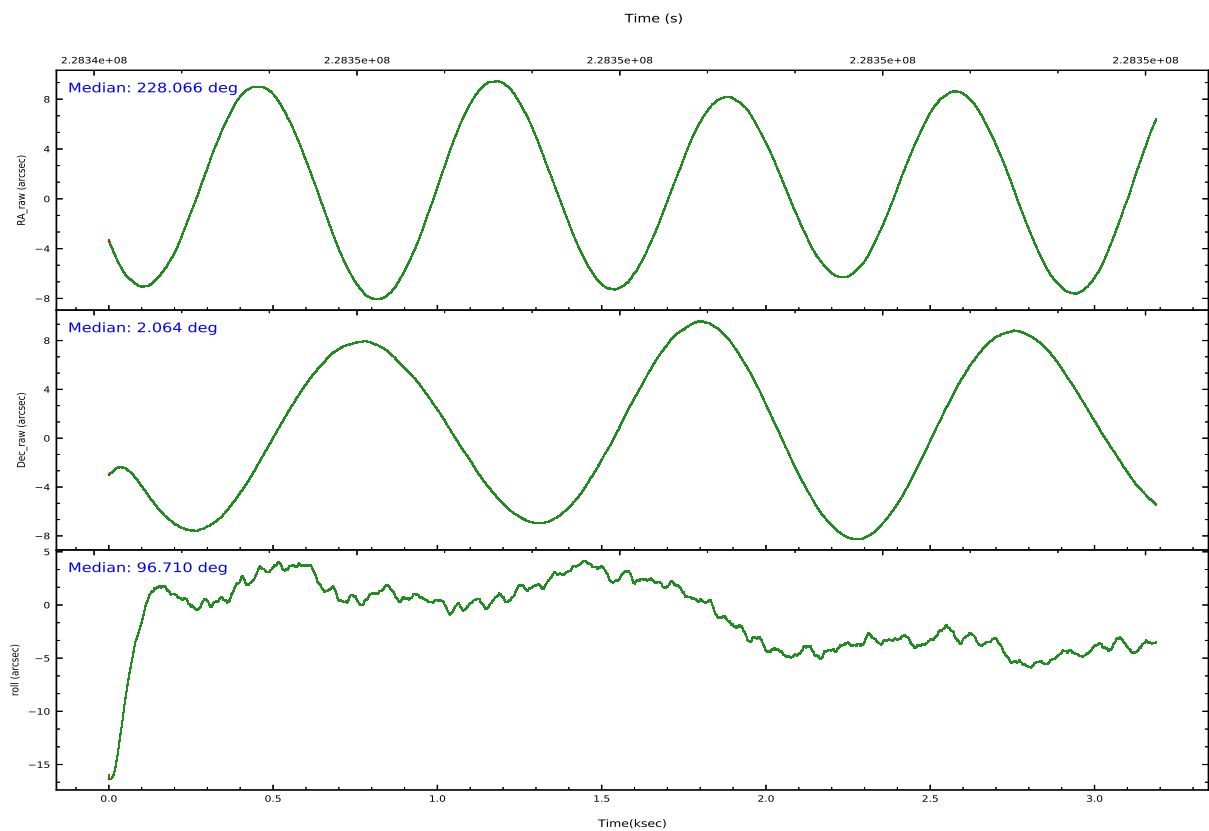
	<b>ccd 7</b>
grade 0 events	535
	9%
grade 1 events	7
	0%
grade 2 events	657
	11%
grade 3 events	418
	7%
grade 4 events	398
	6%
grade 5 events	502
	8%
grade 6 events	1234
	20%
grade 7 events	2138
	36%

## 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	228.082983	228.06925380679	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	2.042763	2.0624018972066	Subarray start row	449	449
[deg] Pointing Roll	96.549850	96.71015901759399	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	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	228345032.184000	228344175.81009			
Observation start date	2005-03-27T21:09:28	2005-03-27T20:56:15			
[s] Observation end time (MET)	228348032.184000	228348593.56029			
Observation end date	2005-03-27T21:59:28	2005-03-27T22:09:53			
Read mode	TIMED	TIMED			

## 2.3 Aspect





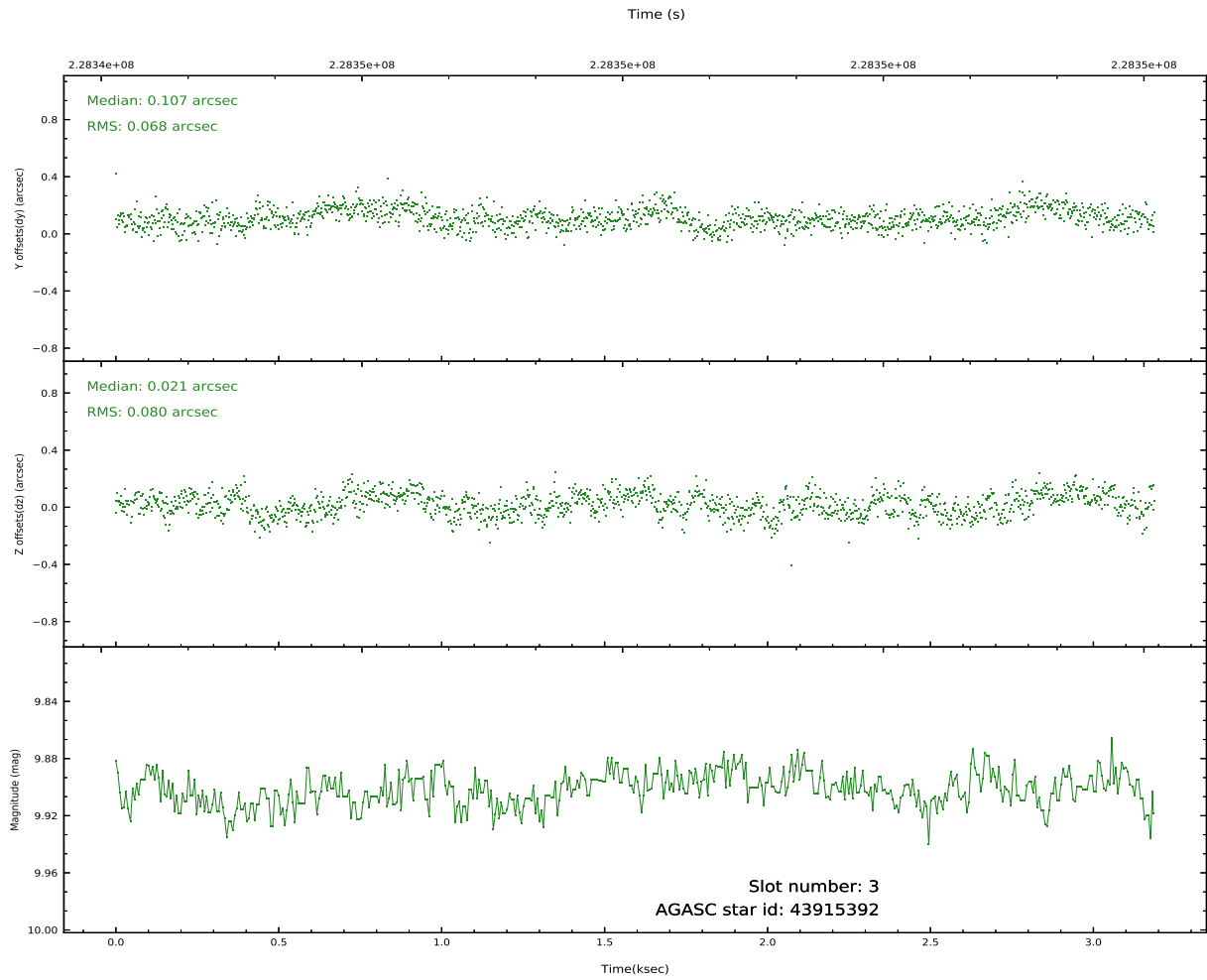
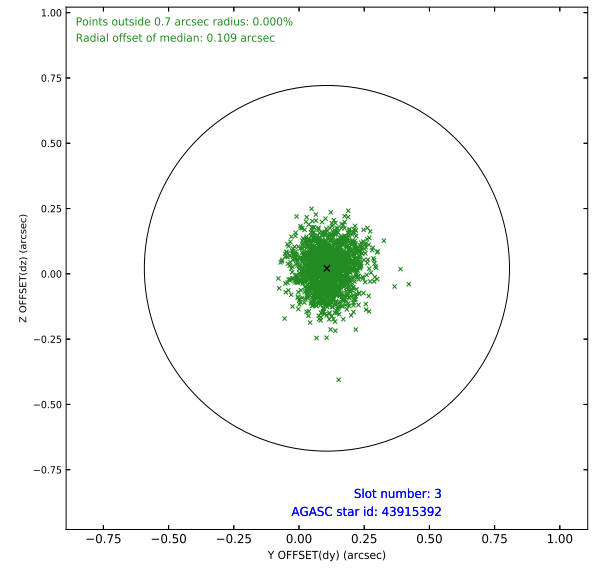
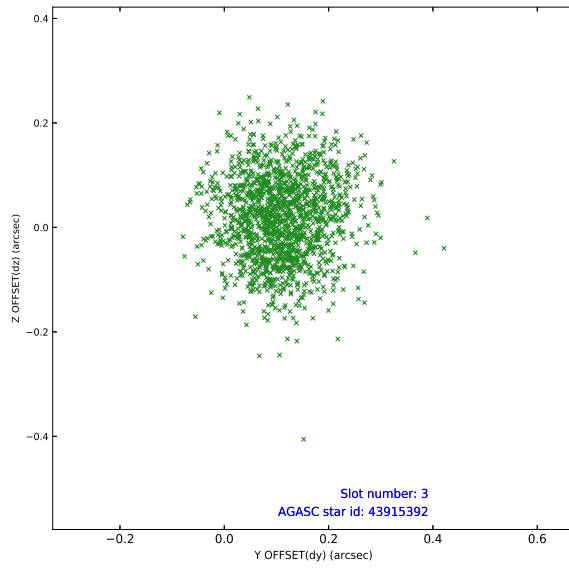
Slot Statistics

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	778	1.000	-0.071	-0.072	0.008	0.013	0.000000	0.000000	-760.23	-1730
1	FID		ACIS-S-4	7.20	778	1.000	0.160	0.054	0.006	0.012	0.000000	0.000000	2152.30	175
2	FID		ACIS-S-5	7.24	778	1.000	-0.120	0.027	0.007	0.012	0.000000	0.000000	-1810.63	171
3	GUIDE	used	43915392	9.90	1552	1.000	0.107	0.021	0.112	0.180	228.358281	1.736508	-1207.69	-859
4	GUIDE	used	44434400	8.73	1546	1.000	-0.128	0.103	0.079	0.129	228.477665	2.695707	2173.45	-1678
5	GUIDE	used	44434736	8.90	1556	1.000	0.150	0.015	0.078	0.121	228.288855	1.879973	-664.43	-670
6	GUIDE	used	44435552	9.37	1554	1.000	-0.123	-0.127	0.088	0.143	227.842357	2.543650	1890.20	653
7	GUIDE	used	44436768	9.18	1554	1.000	-0.010	-0.003	0.083	0.134	228.398067	2.250457	615.48	-1211

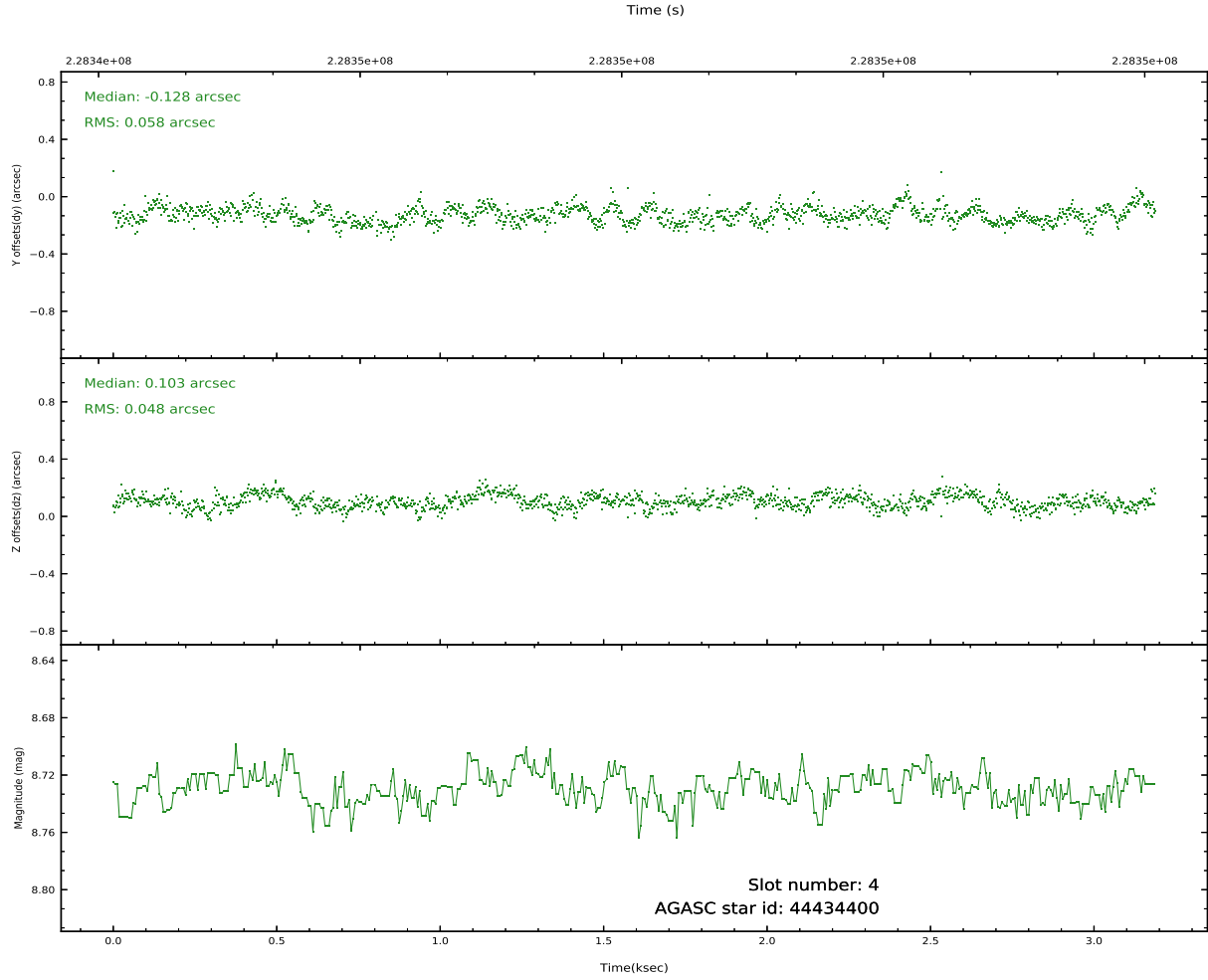
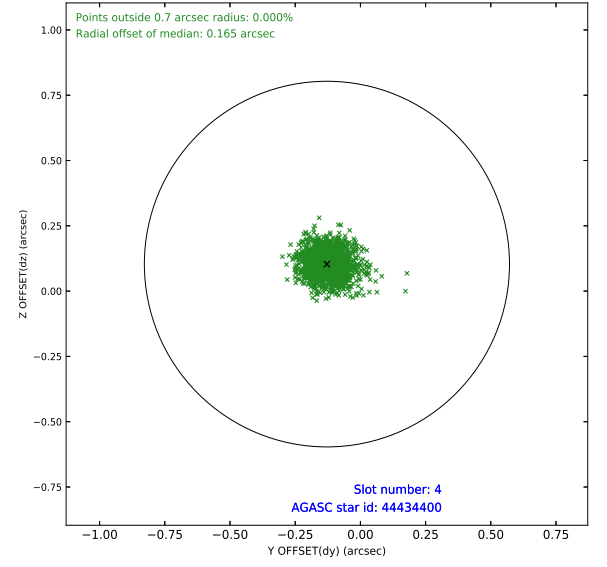
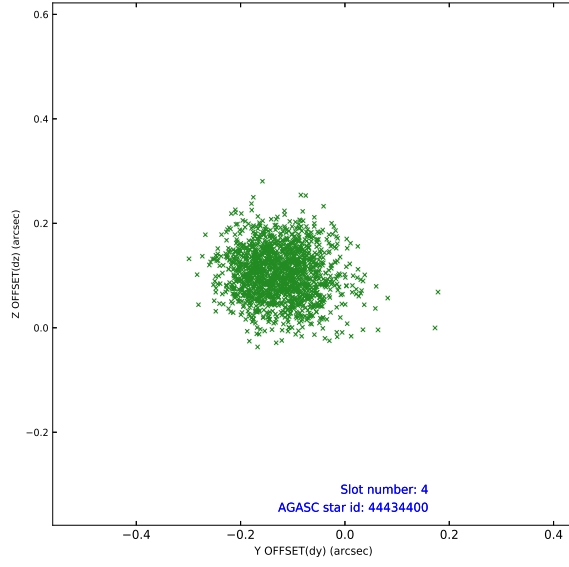


## 2.4 Star Slots

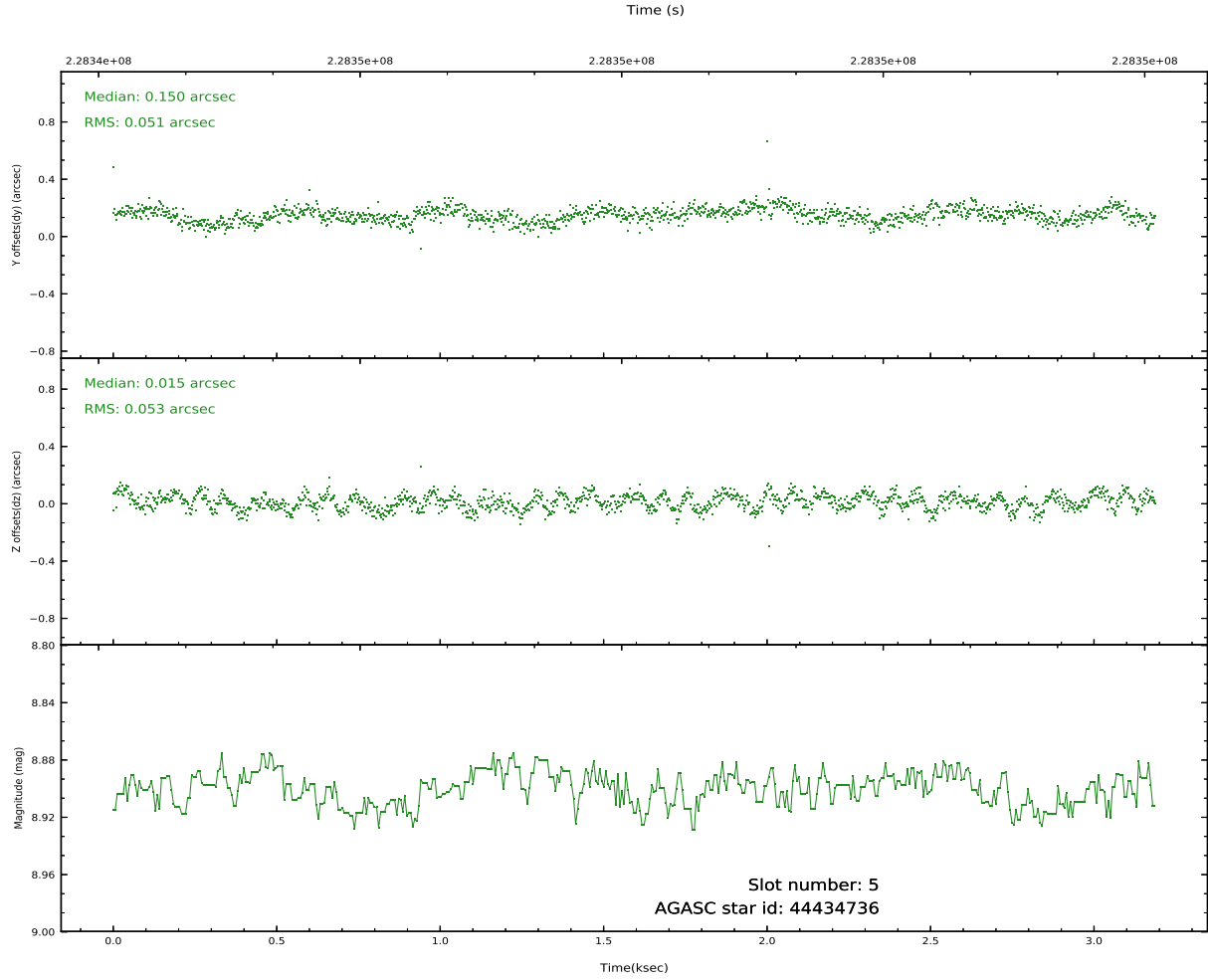
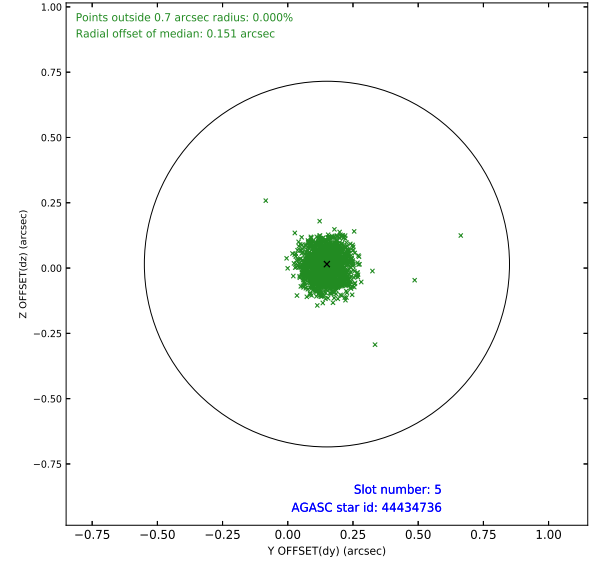
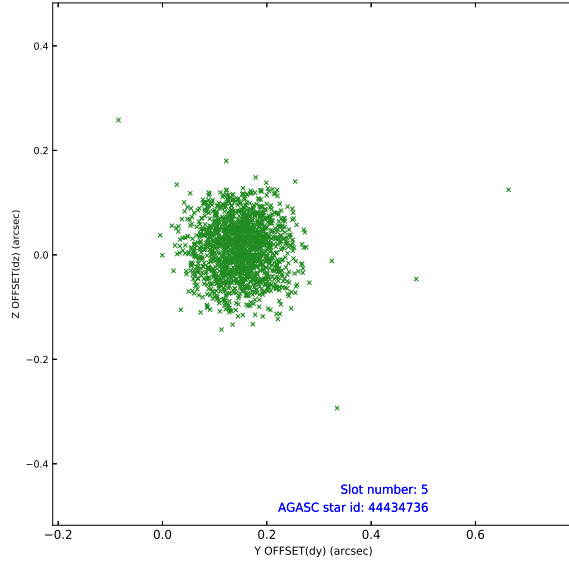
### 2.4.1 Slot 3



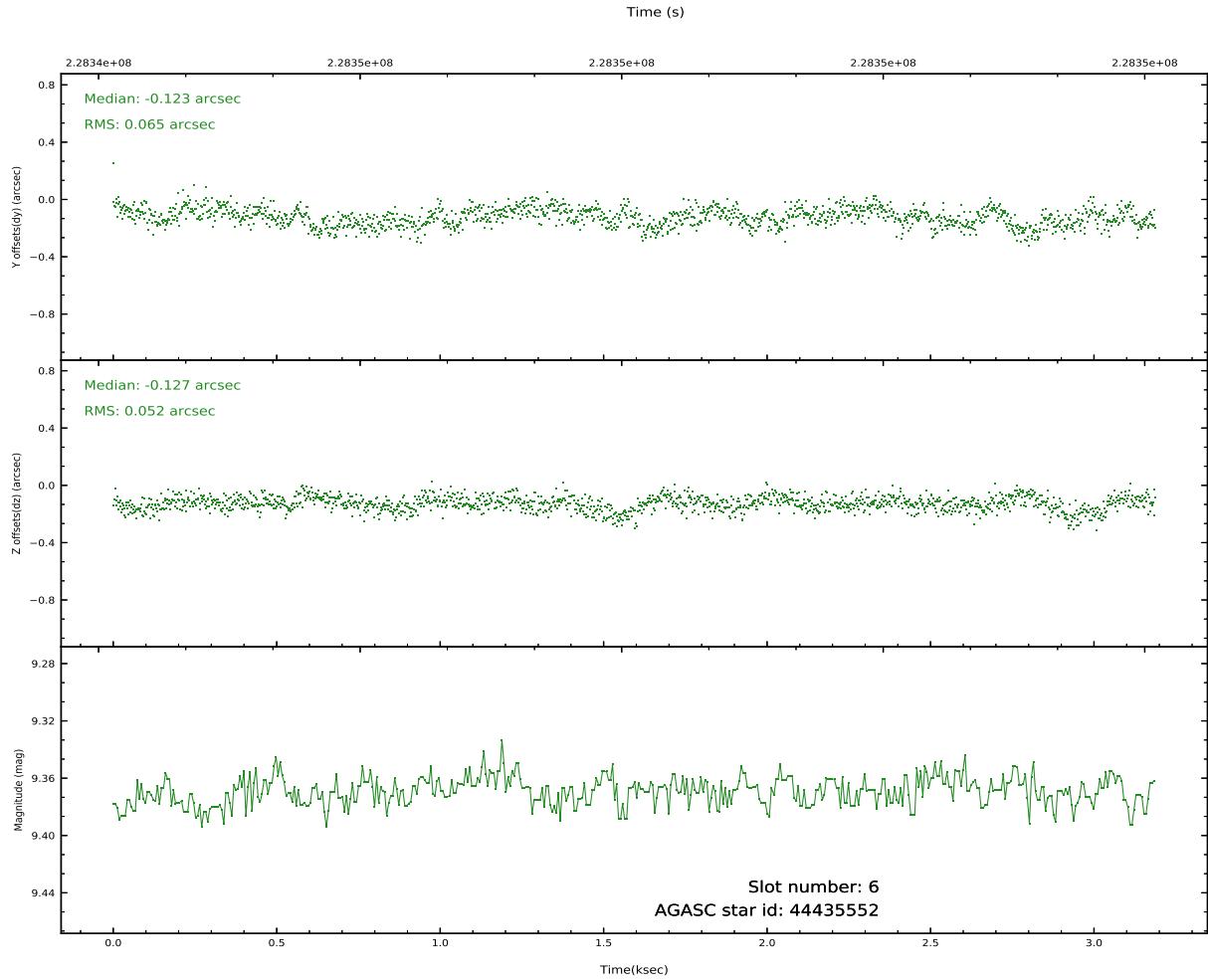
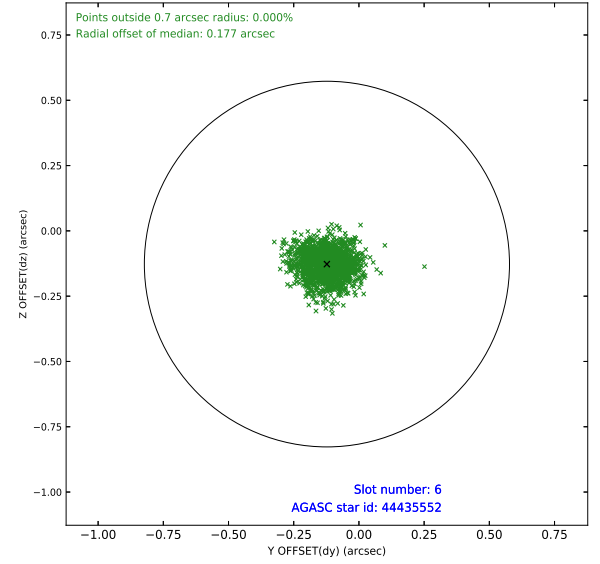
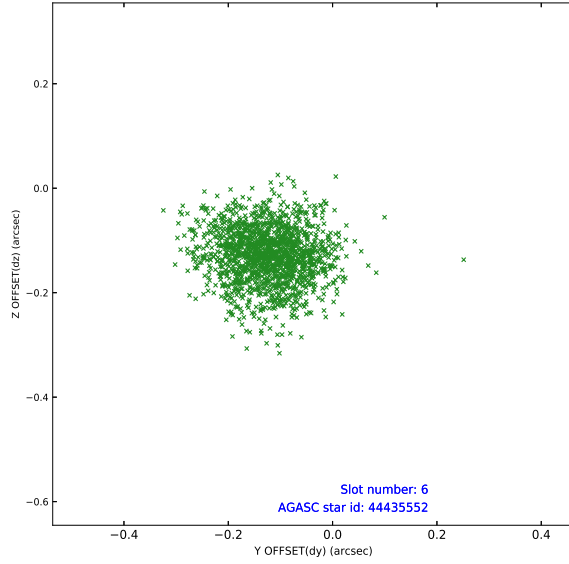
## 2.4.2 Slot 4



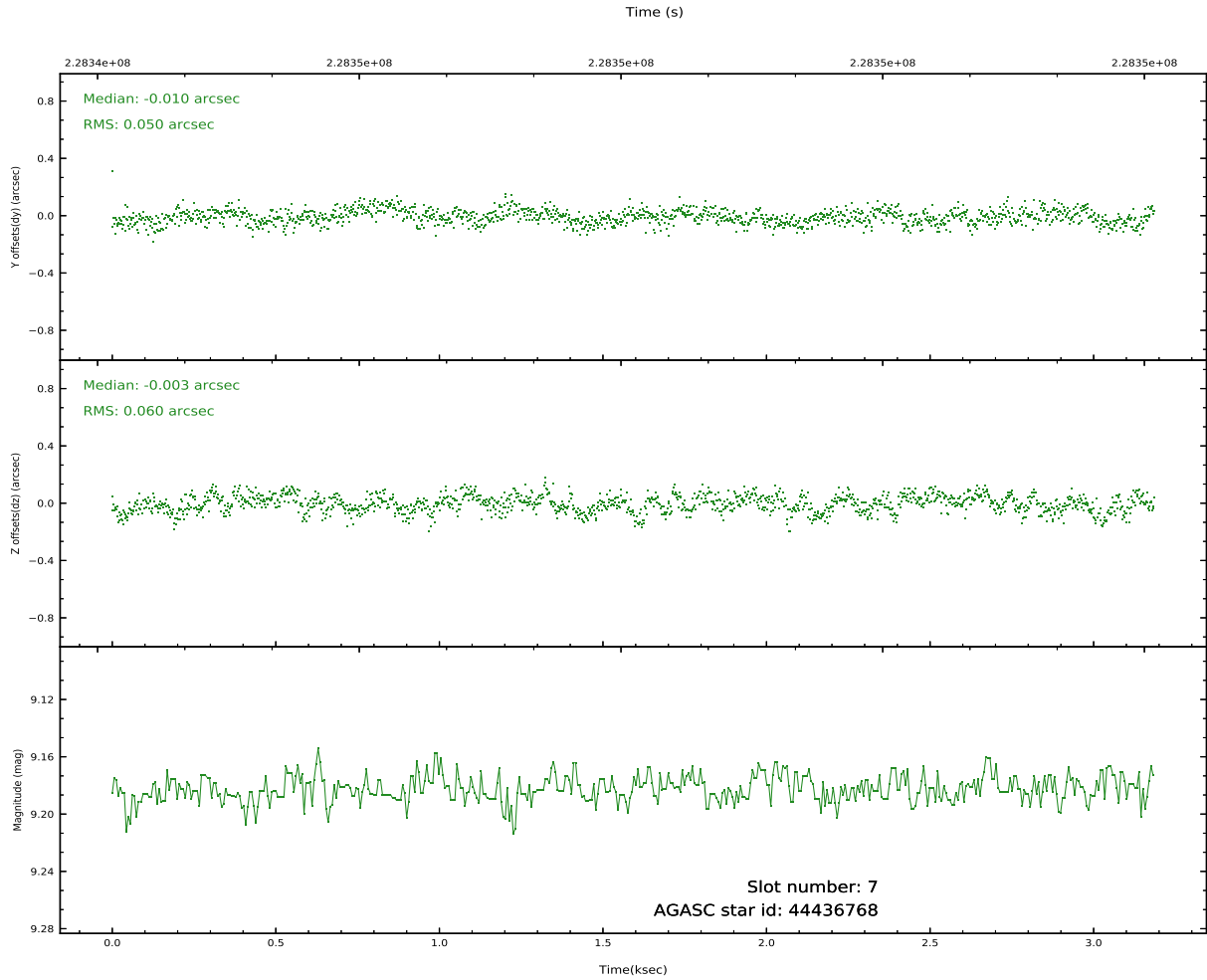
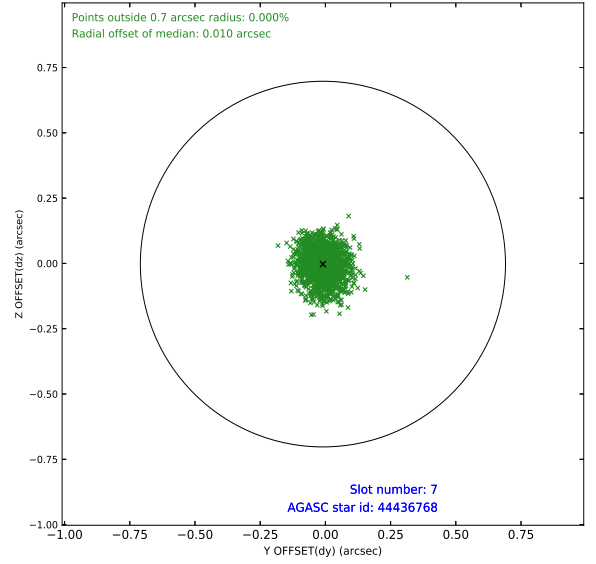
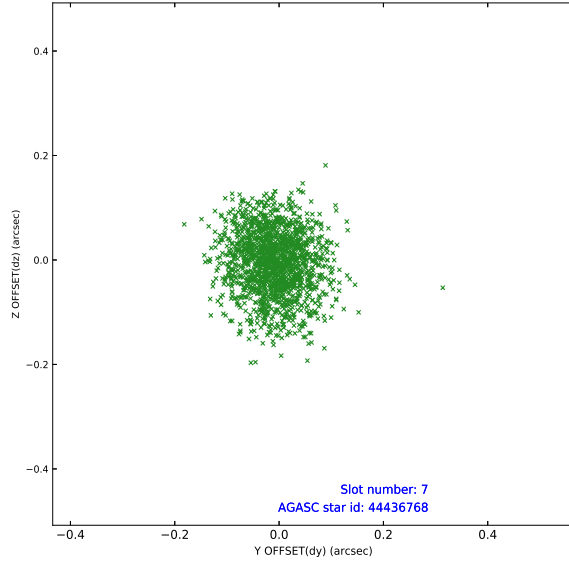
### 2.4.3 Slot 5



## 2.4.4 Slot 6

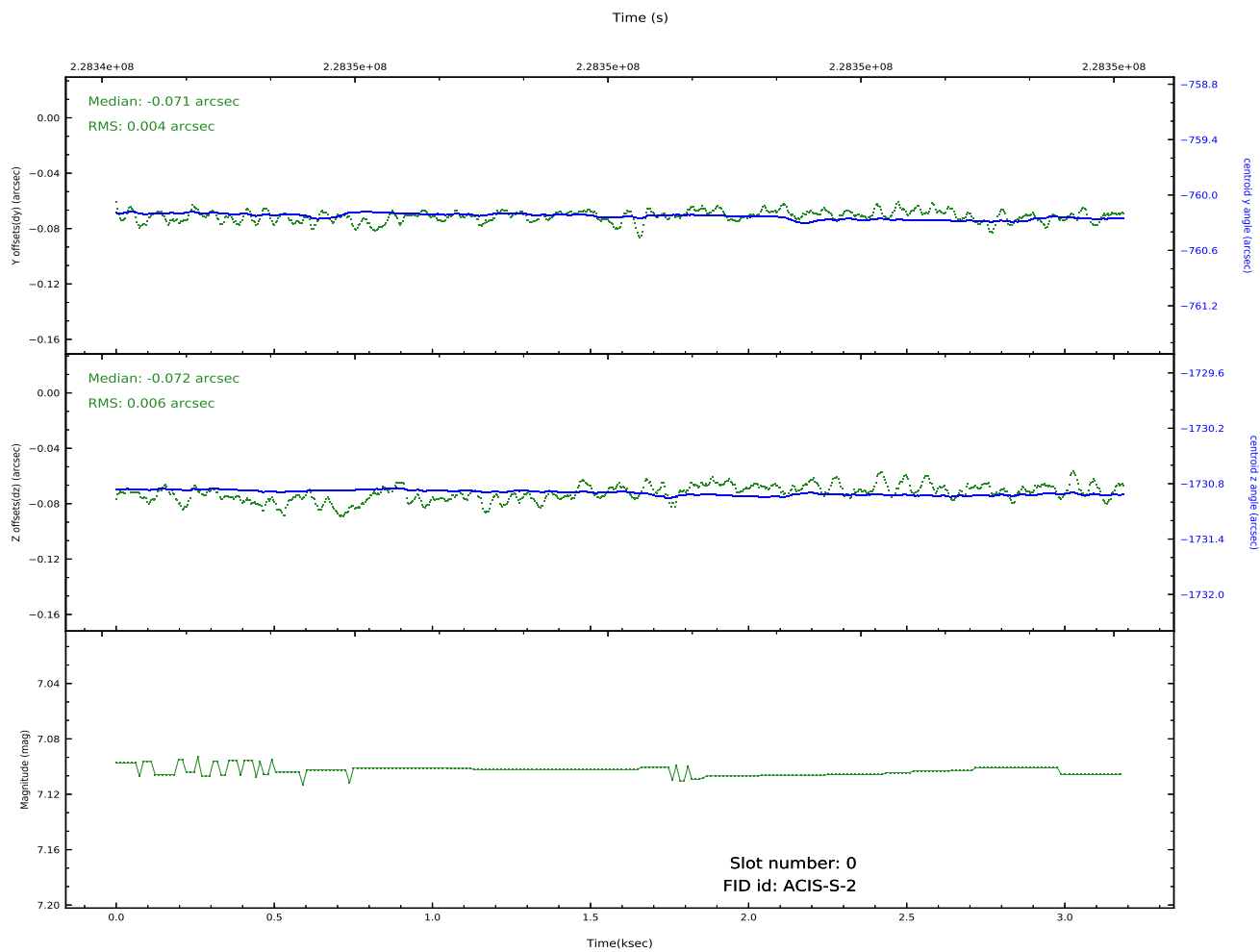
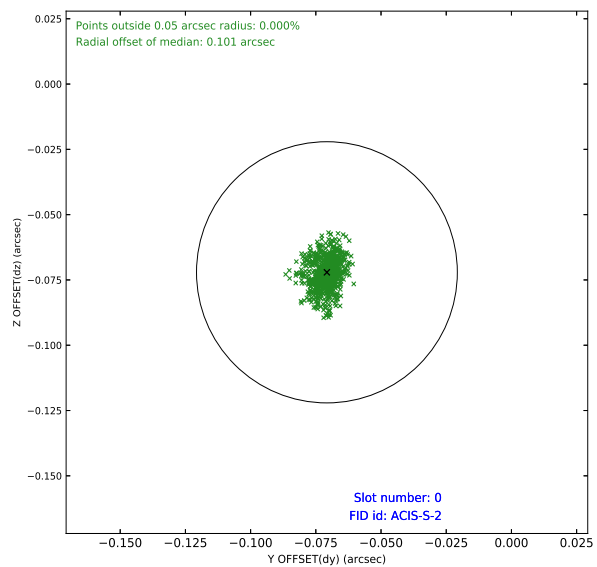
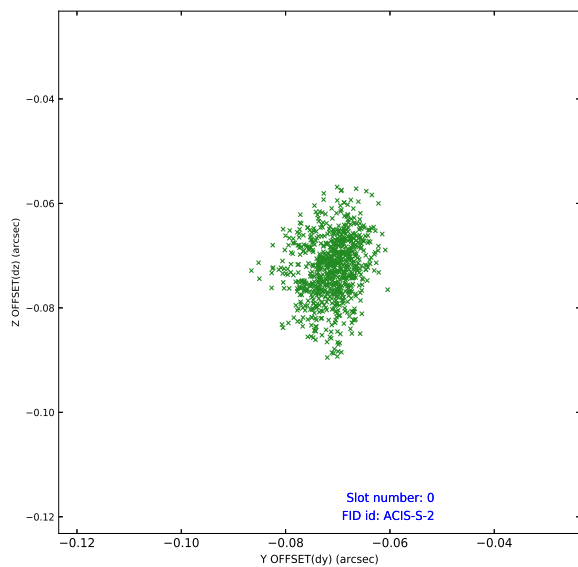


## 2.4.5 Slot 7

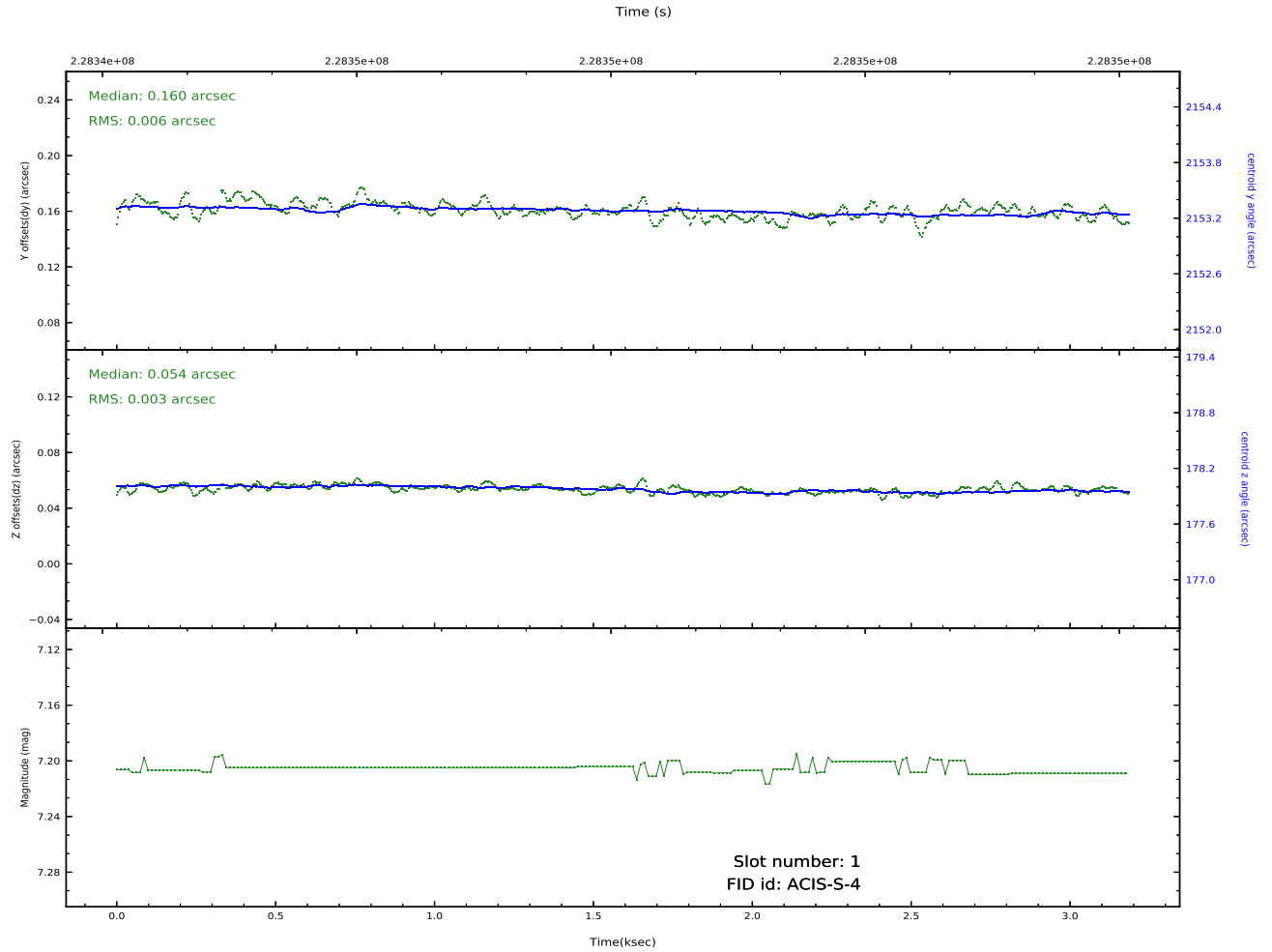
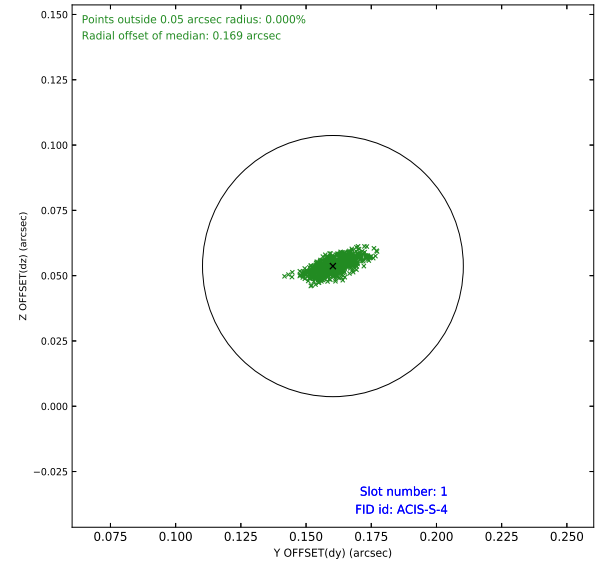
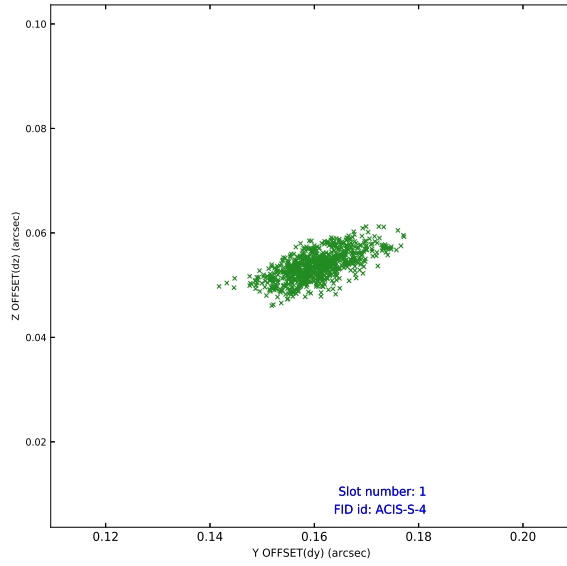


## 2.5 FID Slots

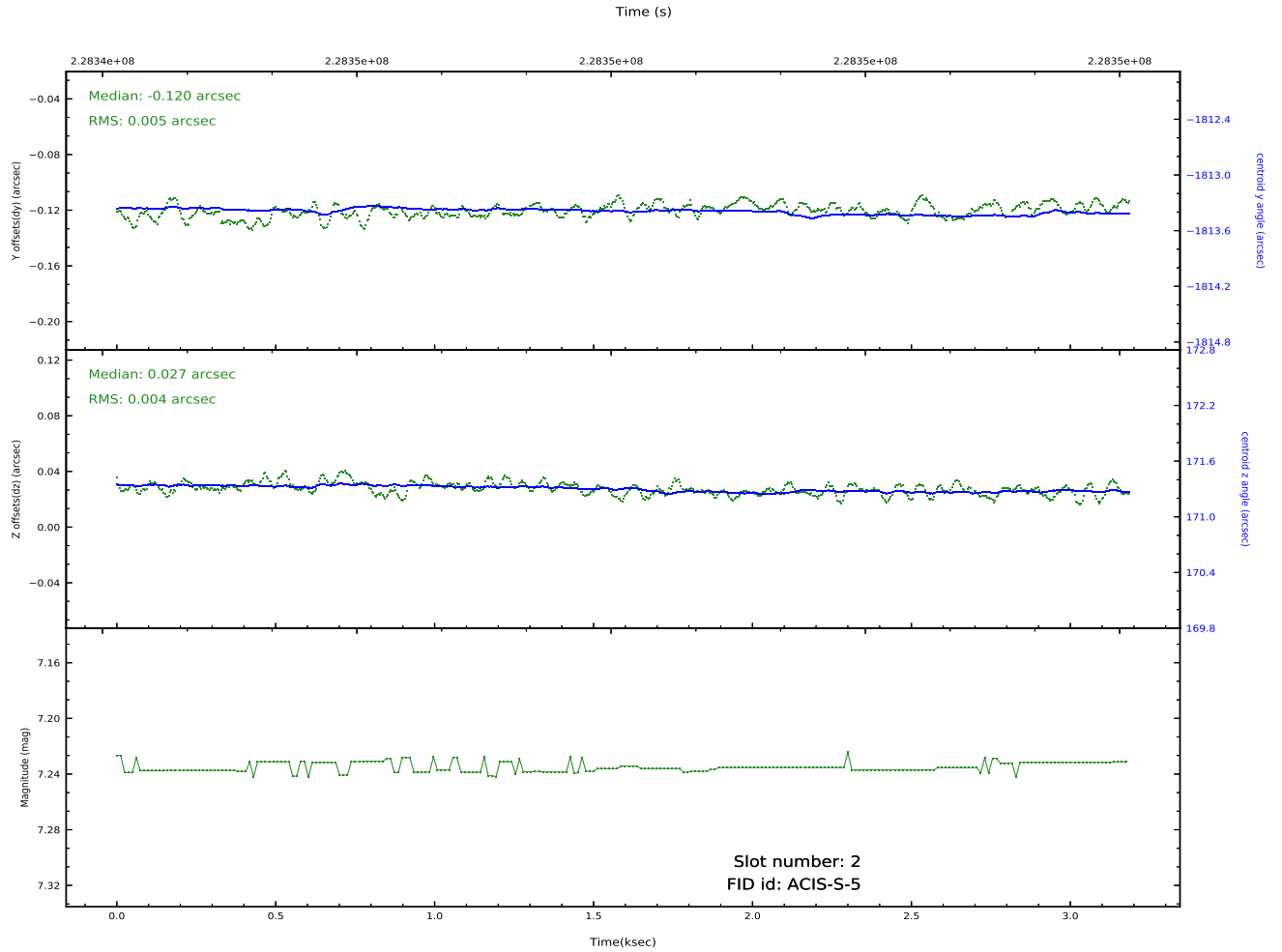
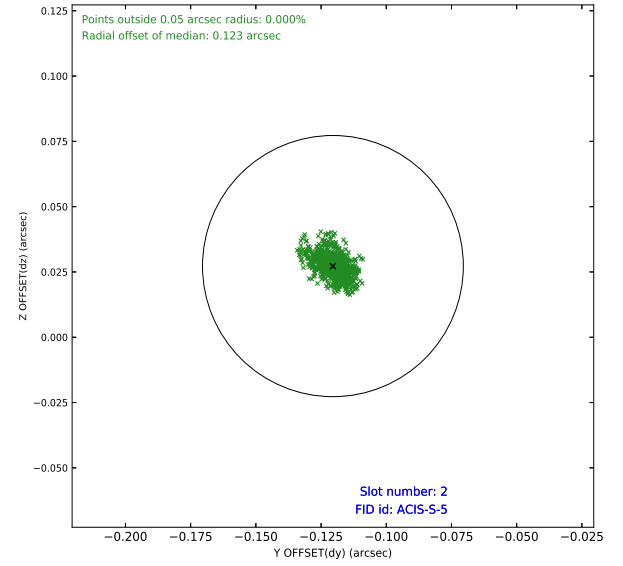
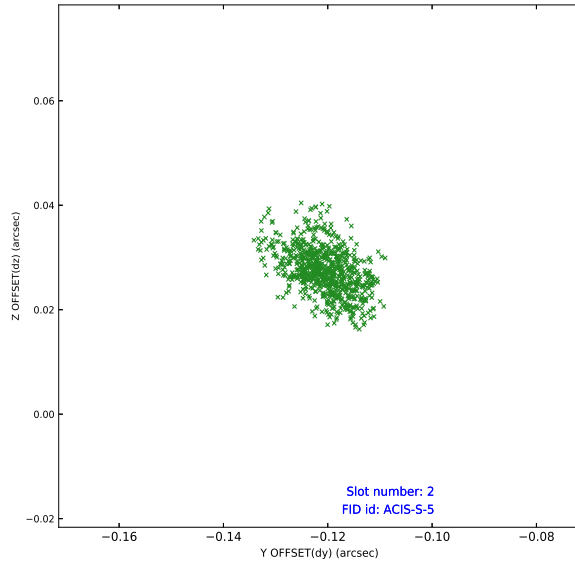
### 2.5.1 Slot 0



## 2.5.2 Slot 1



## 2.5.3 Slot 2





# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.1868

## A.2 Comments

Joint Proposal: NRAO