

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 5658 - L2 Version 4  
Chandra X-Ray Center

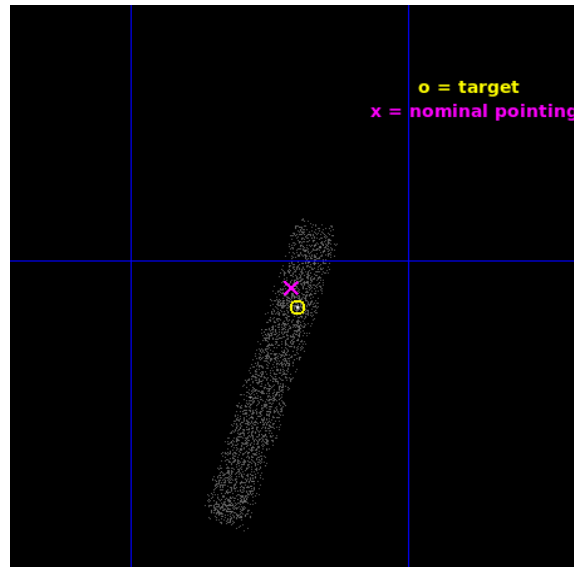
L2 Processing Date : Oct 8 2020

## 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

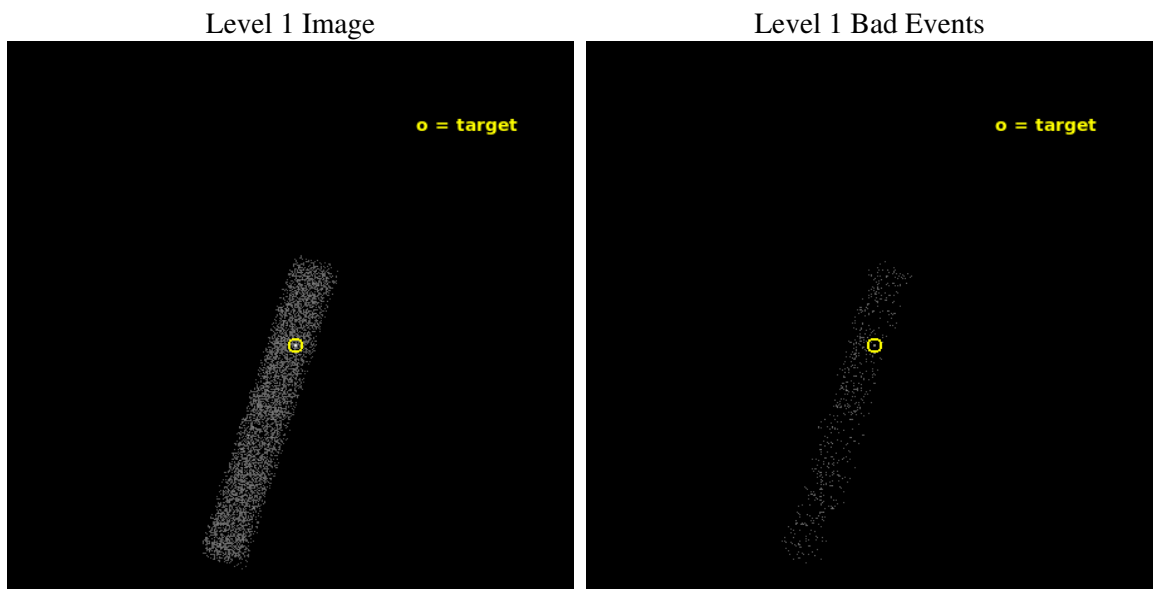
seq_num	701081	Sequence number
obs_id	5658	Observation id
title	X-ray Properties of AGNs with Intermediate-mass Black Holes	Propos
observer	Dr. Luis Ho	Principal investigator
object	SDSS J010712.03+140844.9	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.8	Observer's specified target RA [deg]
dec_targ	14.145806	Observer's specified target Dec [deg]
ra_nom	16.802365035818	Nominal RA [deg]
dec_nom	14.154614594132	Nominal Dec [deg]
roll_nom	107.03925596608	Nominal Roll [deg]
revision	4	Processing version of data
ontime	5007.2000745833	Sum of GTIs [s]
livetime	4541.2661659562	Livetime [s]
ontime7	5007.2000745833	Sum of GTIs [s]
l2events	4116	Number of level 2 events



## 2 OBI

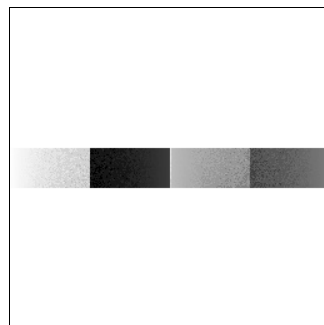
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	5007.2000745833	Sum of GTIs [s]
caldsver	4.9.2	&#160	ontime7	5007.2000745833	Sum of GTIs [s]
date	2020-10-08T13:59:45	Date and time of file creation	l1events	7877	Number of level 1 events
revision	4	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	7877
rejected events	3625
rejected %	46%

	<b>ccd 7</b>
grade 0 events	787
	9%
grade 1 events	8
	0%
grade 2 events	854
	10%
grade 3 events	536
	6%
grade 4 events	492
	6%
grade 5 events	602
	7%
grade 6 events	1583
	20%
grade 7 events	3015
	38%

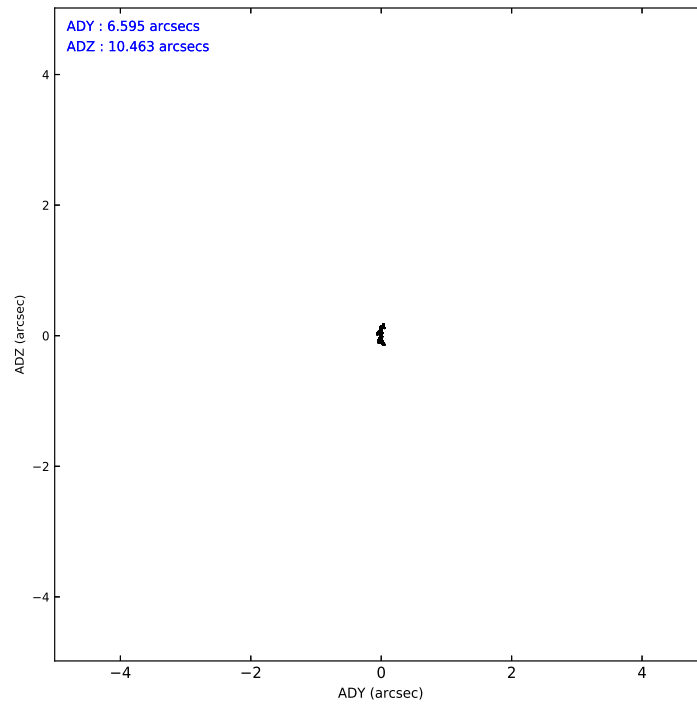
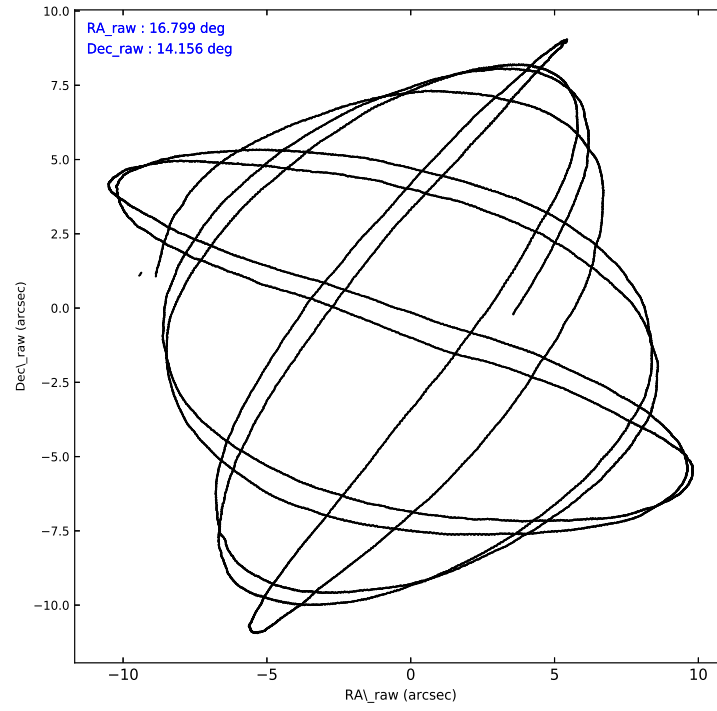


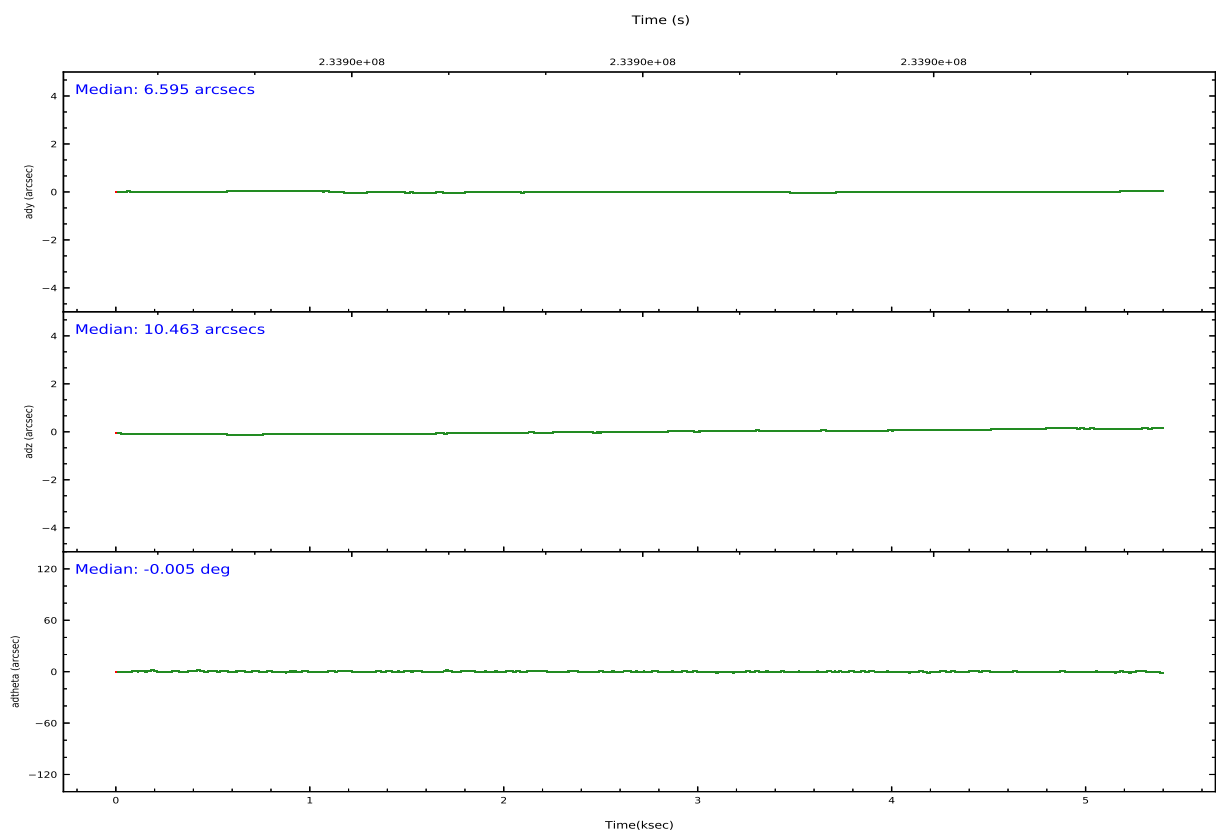
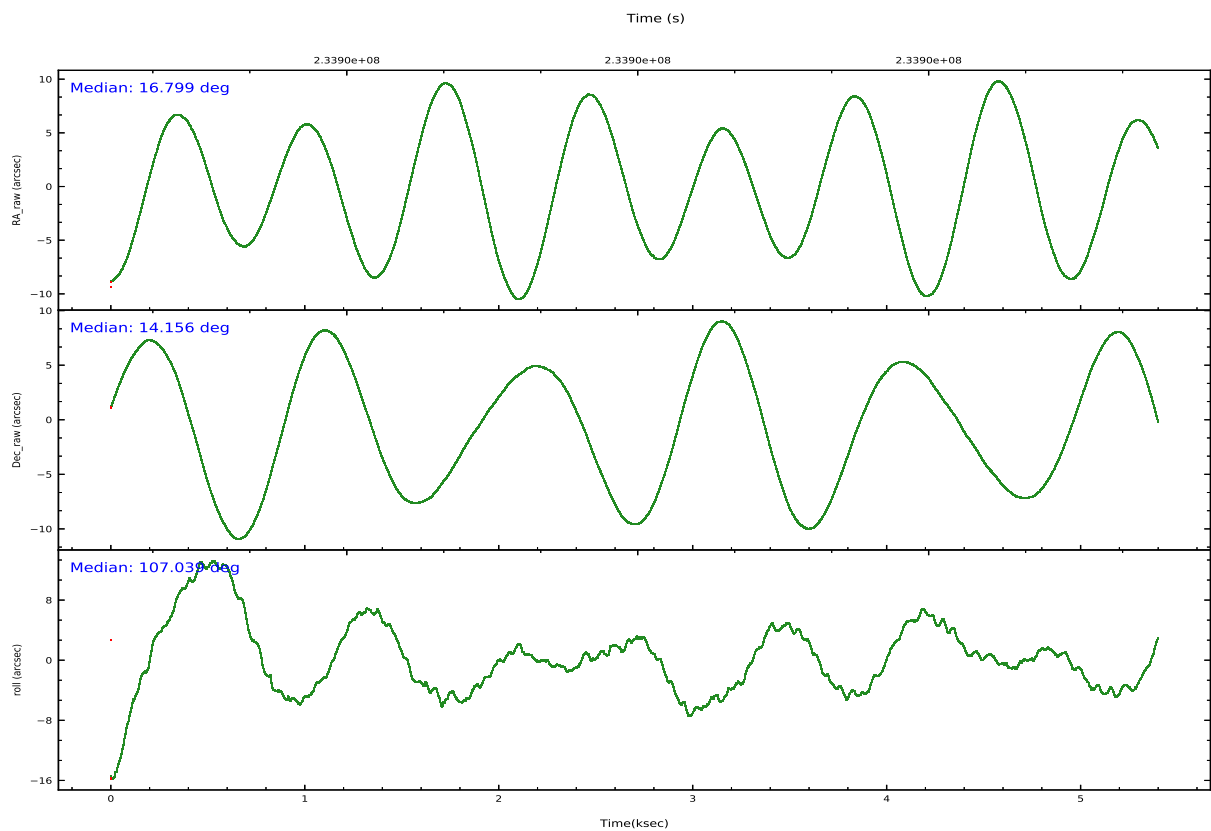
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-7	ACIS-7
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	16.819597	16.802365035818
[deg] Pointing Dec	14.137114	14.154614594132
[deg] Pointing Roll	106.872650	107.03925596608
[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)	233901184.184000	233900487.3504
Observation start date	2005-05-31T04:32:00	2005-05-31T04:21:27
[s] Observation end time (MET)	233906184.184000	233907153.9507
Observation end date	2005-05-31T05:55:20	2005-05-31T06:12:33
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar version number	8	8
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	CUSTOM	1/8
Subarray start row	449	449
Subarray row count	128	128
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	0.4

## 2.3 Aspect



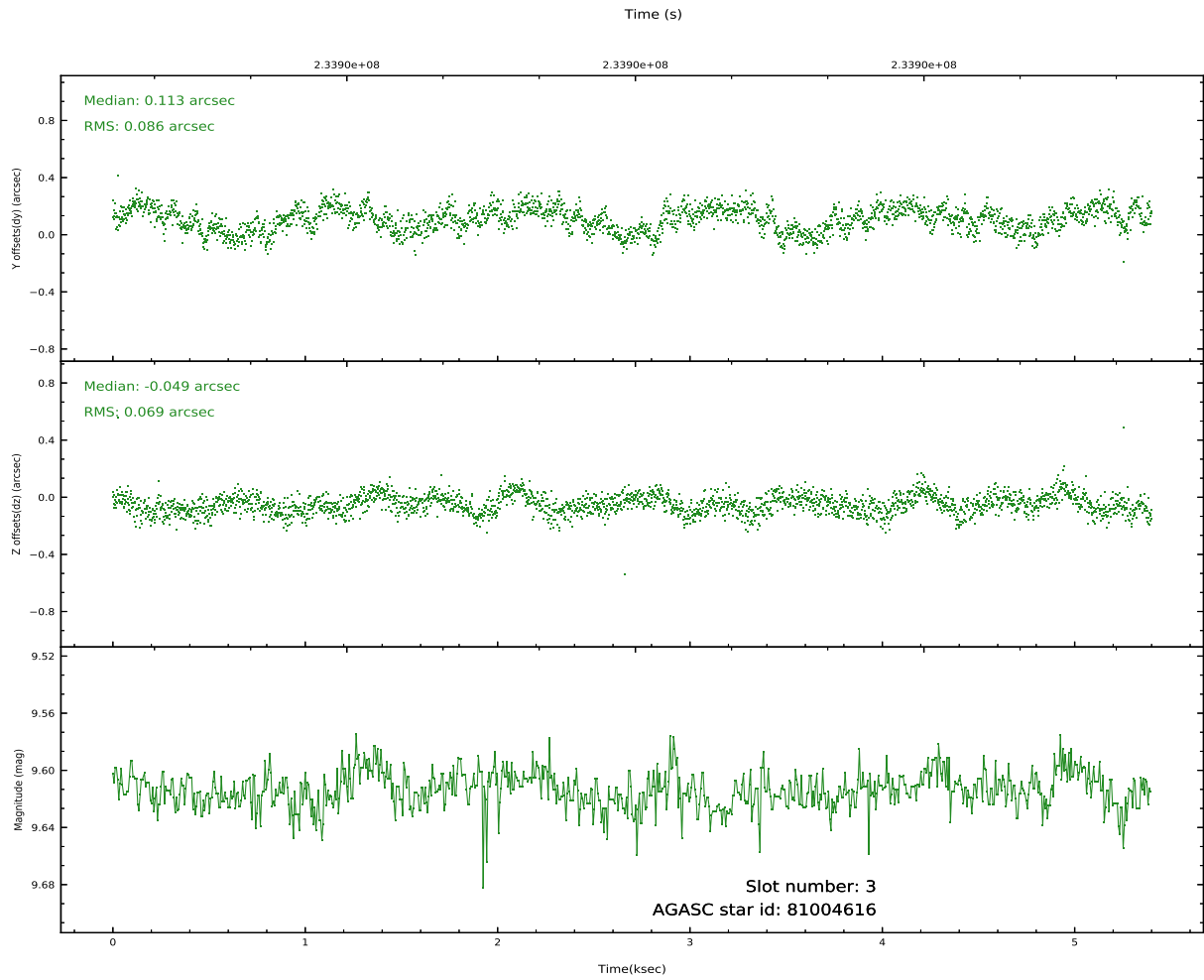
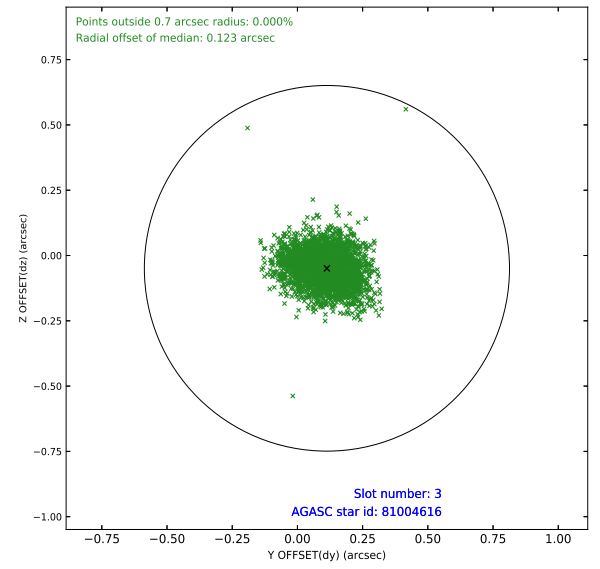
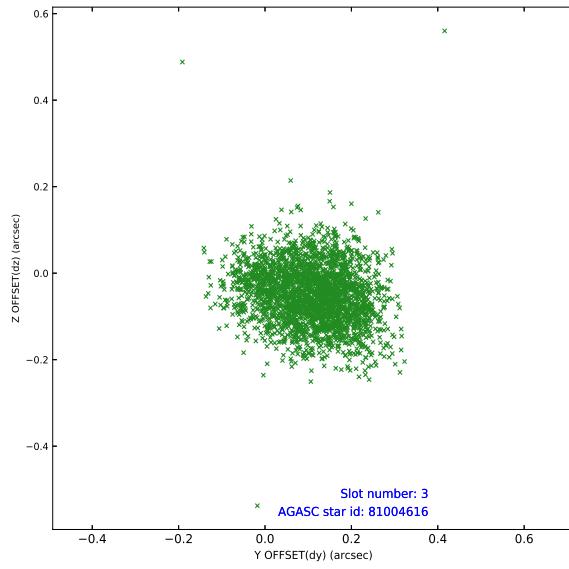


Slot Statistics

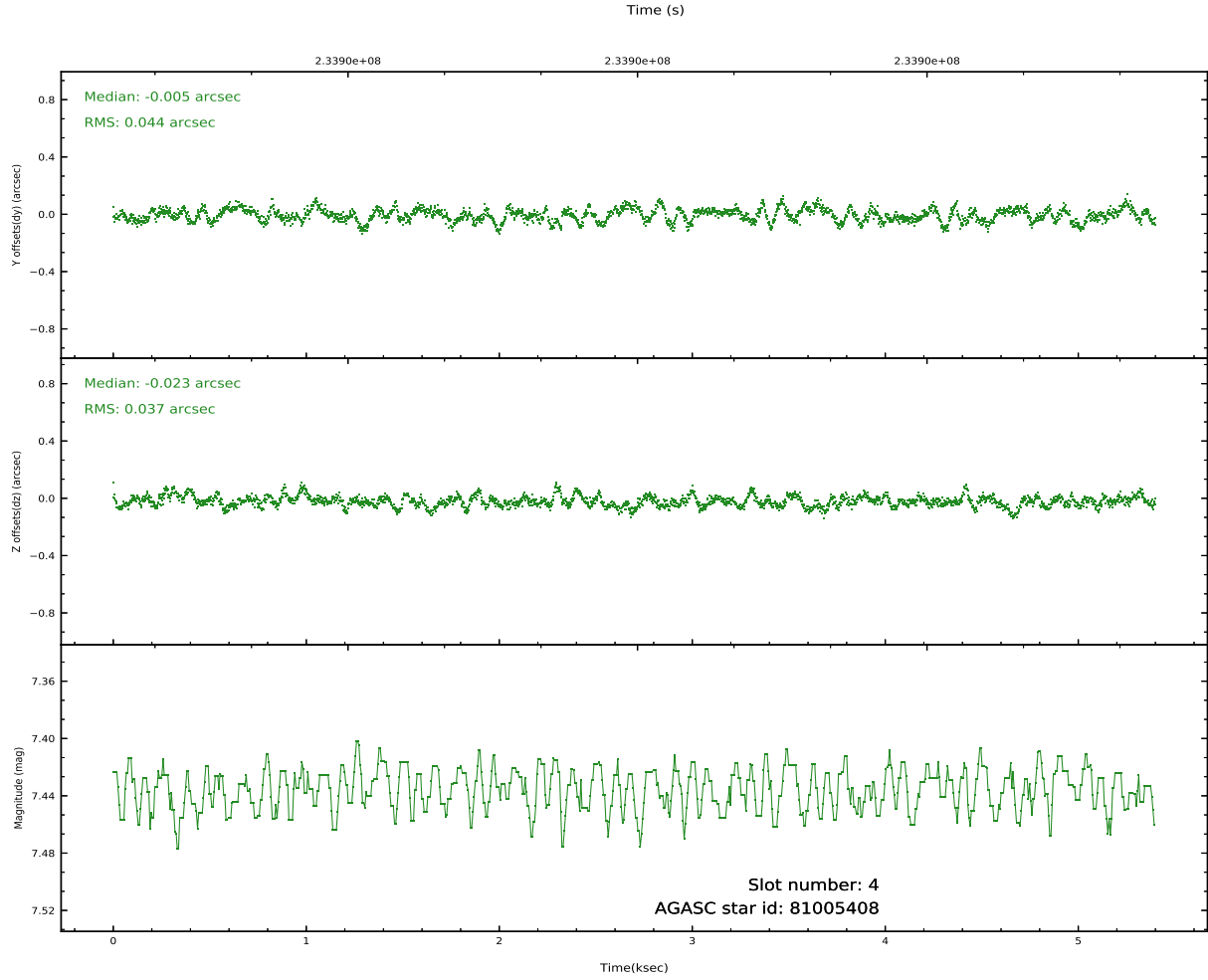
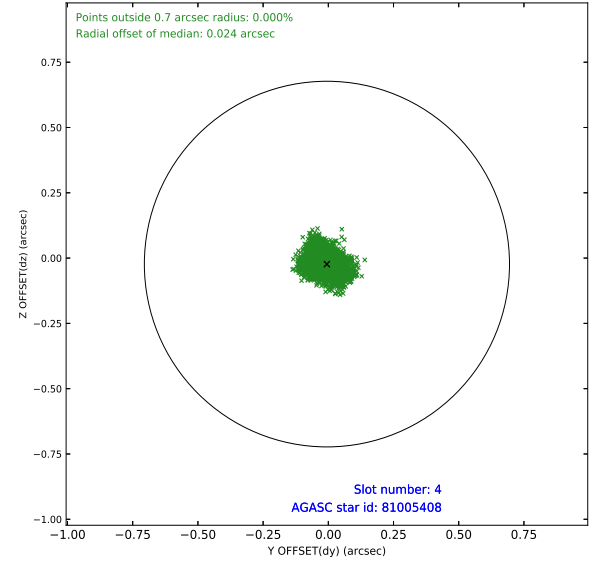
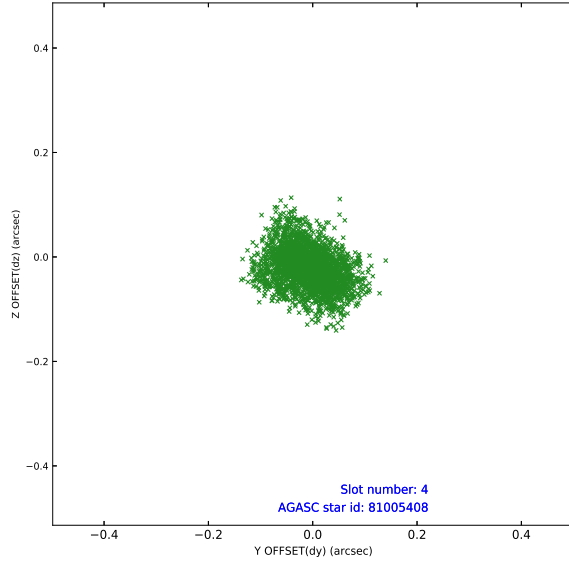
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.09	1318	1.000	-0.113	-0.093	0.005	0.010	0.000000	0.000000	-759.41	-1731
1	FID		ACIS-S-4	7.20	1318	1.000	0.093	0.057	0.006	0.010	0.000000	0.000000	2153.53	175
2	FID		ACIS-S-6	7.35	1318	1.000	-0.008	0.043	0.006	0.011	0.000000	0.000000	404.06	814
3	GUIDE	used	81004616	9.61	2629	1.000	0.113	-0.049	0.116	0.185	16.727653	13.590154	-1791.26	880
4	GUIDE	used	81005408	7.43	2635	1.000	-0.005	-0.023	0.062	0.101	16.652176	13.884607	-701.20	824
5	GUIDE	used	81007168	9.80	2622	1.000	-0.074	-0.075	0.118	0.194	16.177367	14.233739	985.59	2043
6	GUIDE	used	81007240	8.58	2630	1.000	-0.129	-0.030	0.077	0.121	16.347652	14.108108	379.78	1607
7	GUIDE	used	81009232	8.69	2630	1.000	0.100	0.180	0.070	0.112	17.046481	13.691825	-1764.12	-293

## 2.4 Star Slots

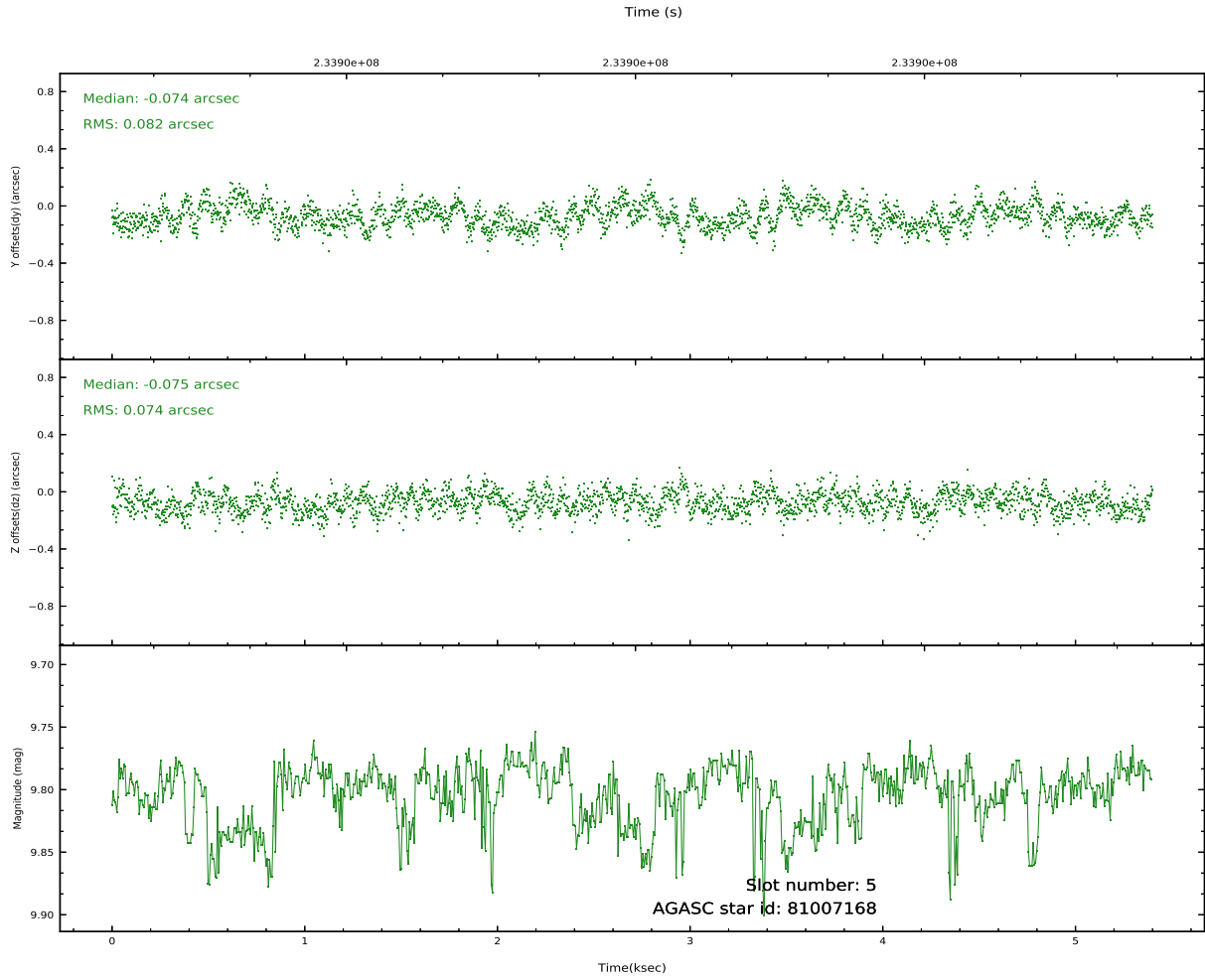
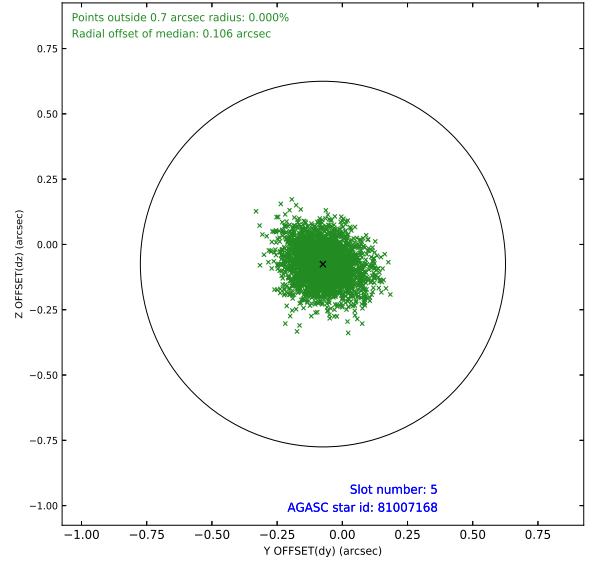
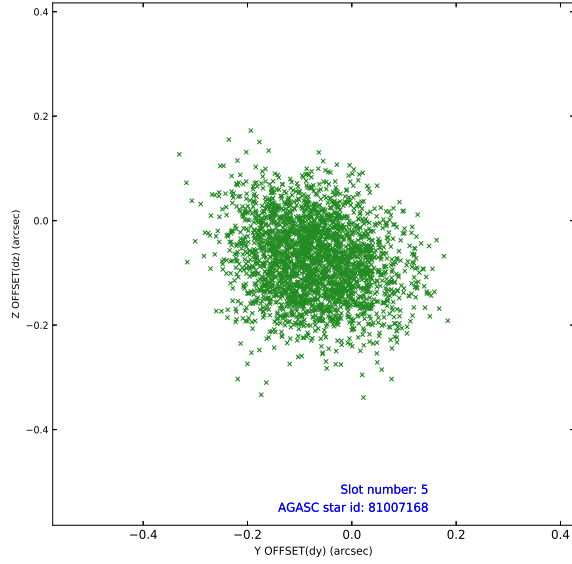
### 2.4.1 Slot 3



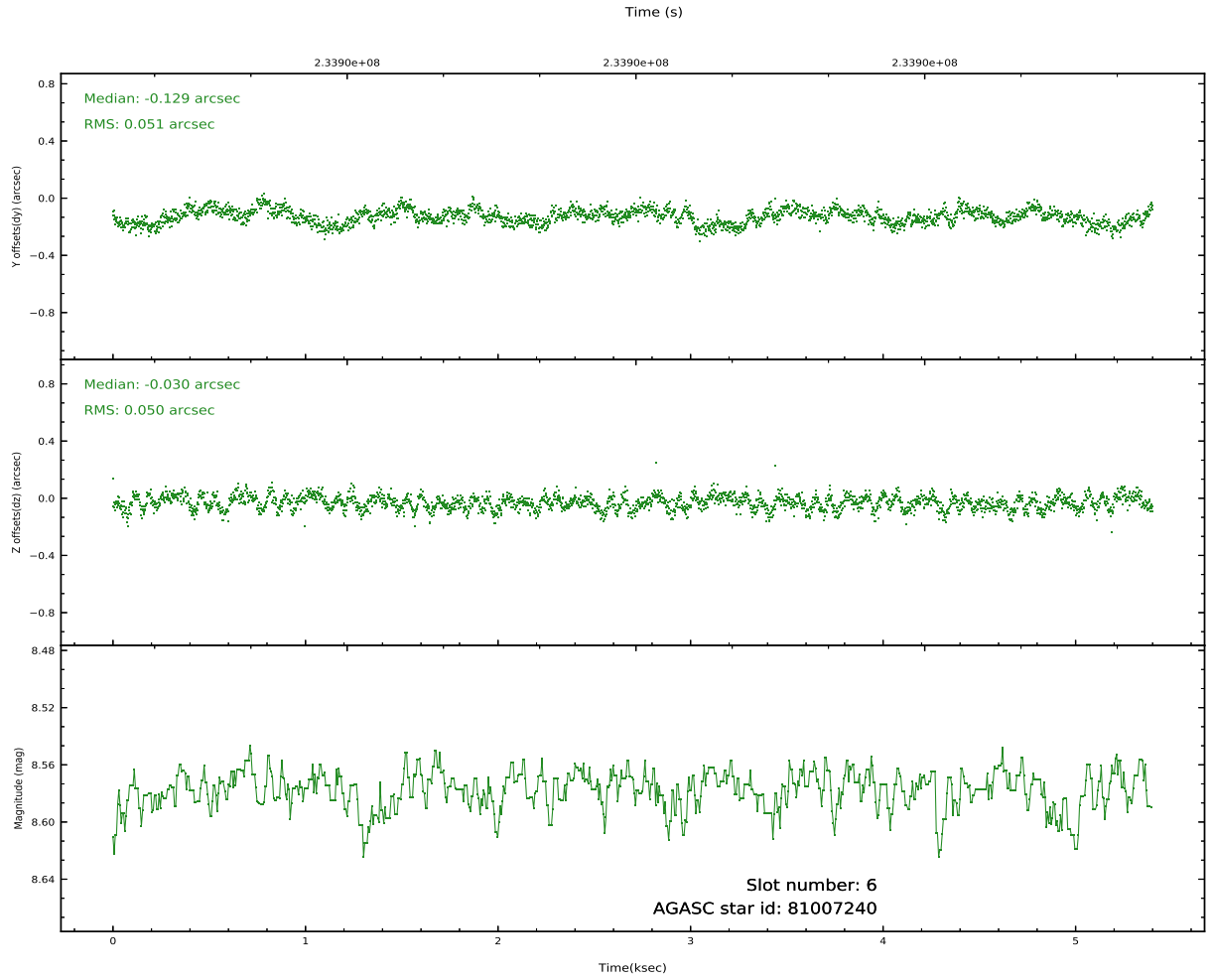
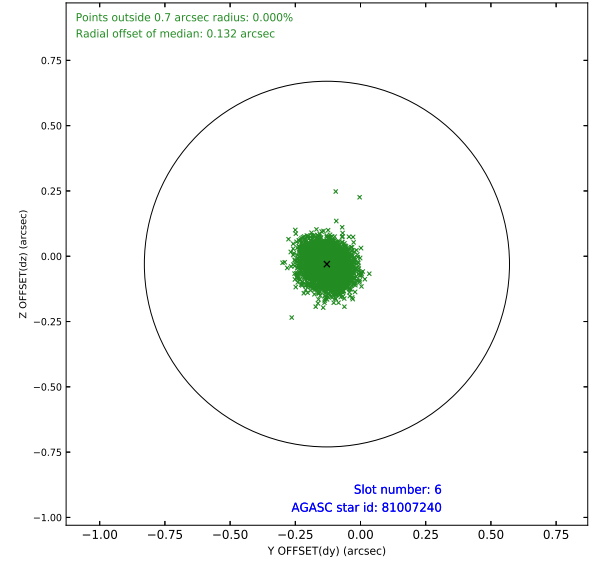
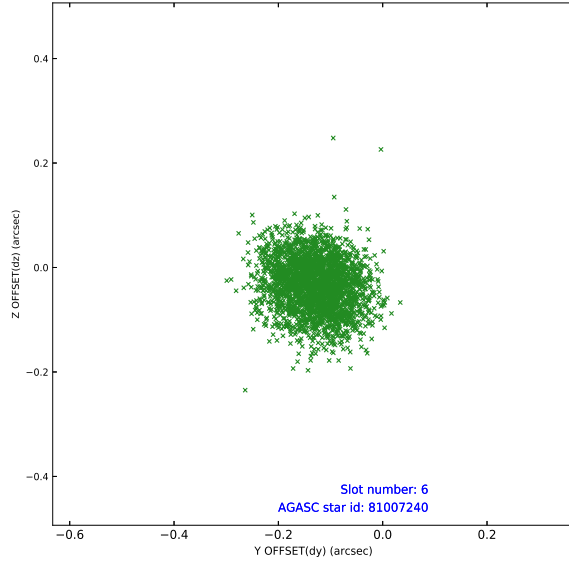
## 2.4.2 Slot 4



### 2.4.3 Slot 5

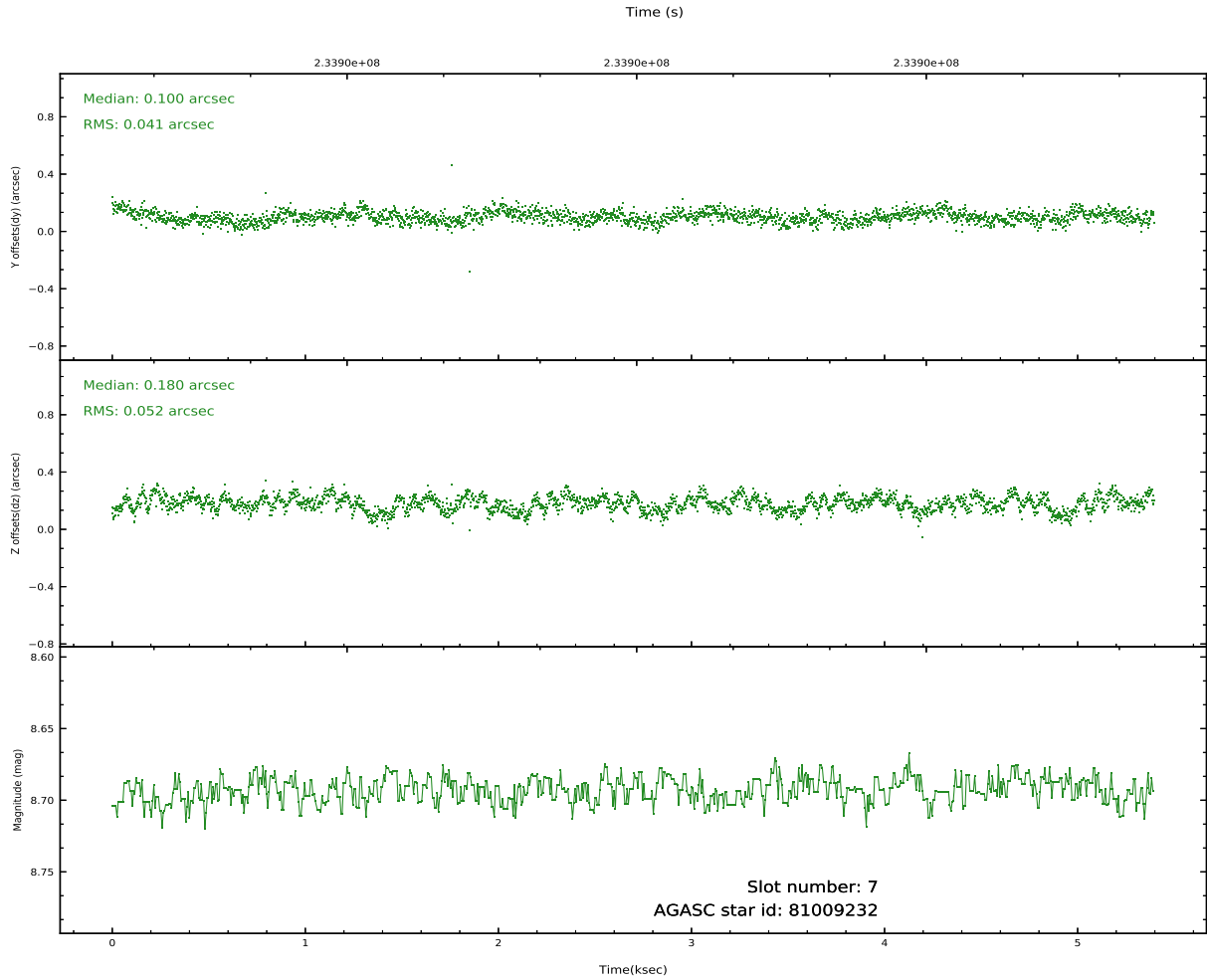
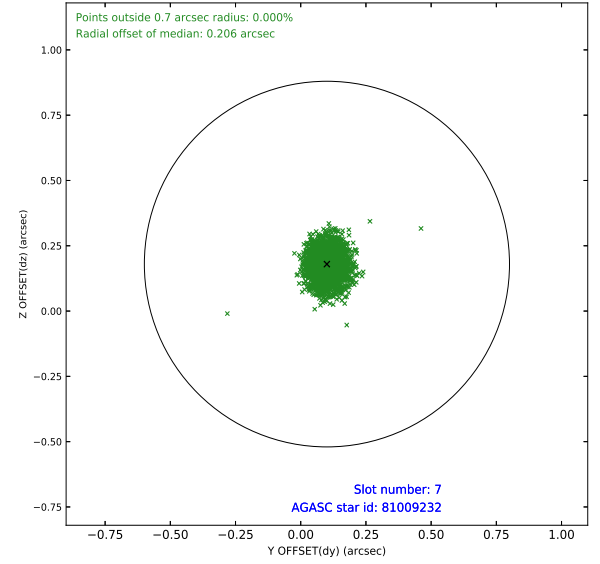
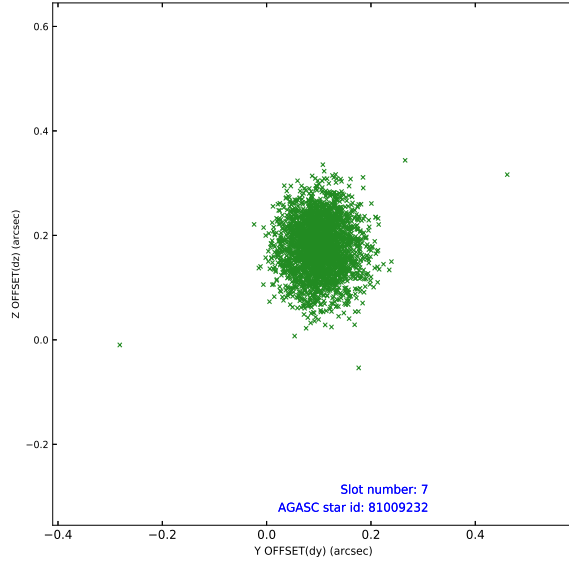


## 2.4.4 Slot 6



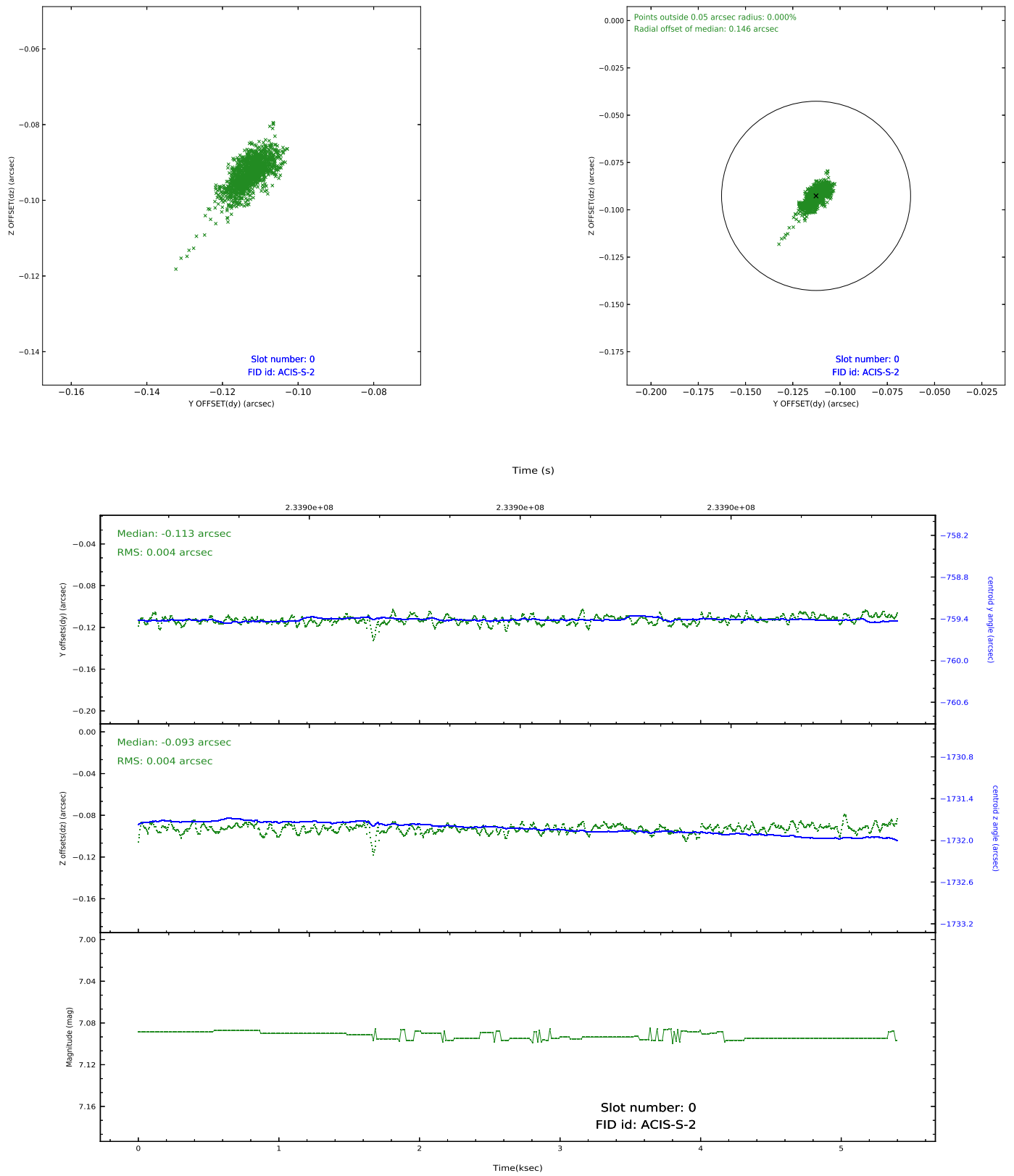


## 2.4.5 Slot 7

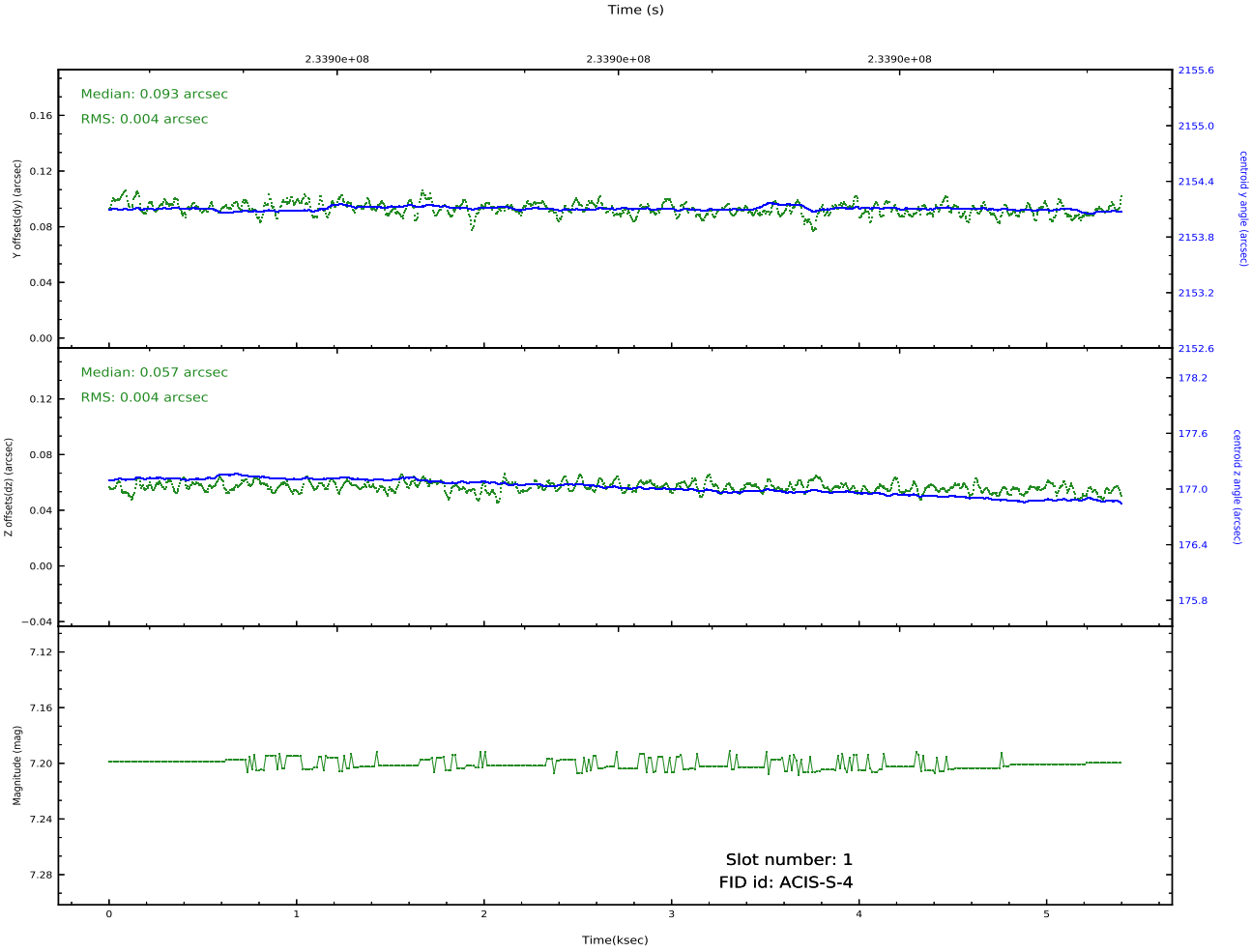
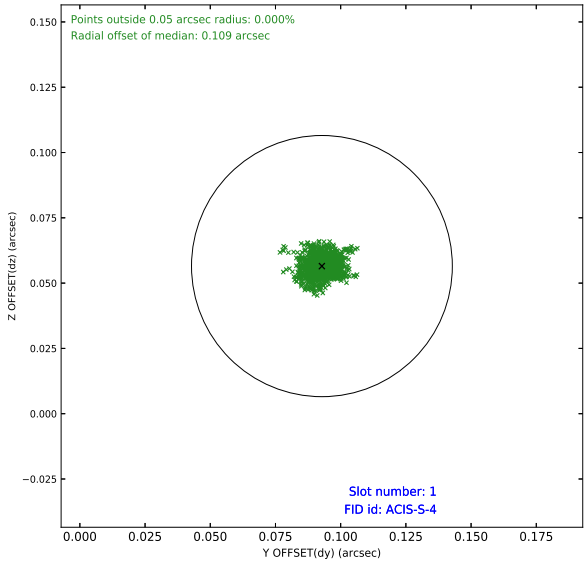
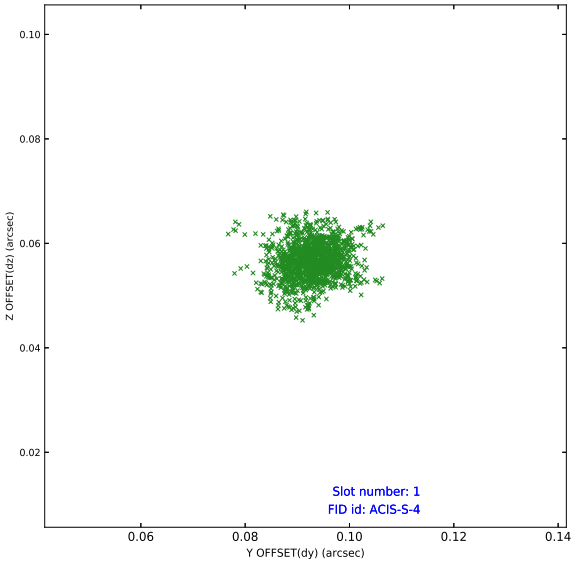


## 2.5 FID Slots

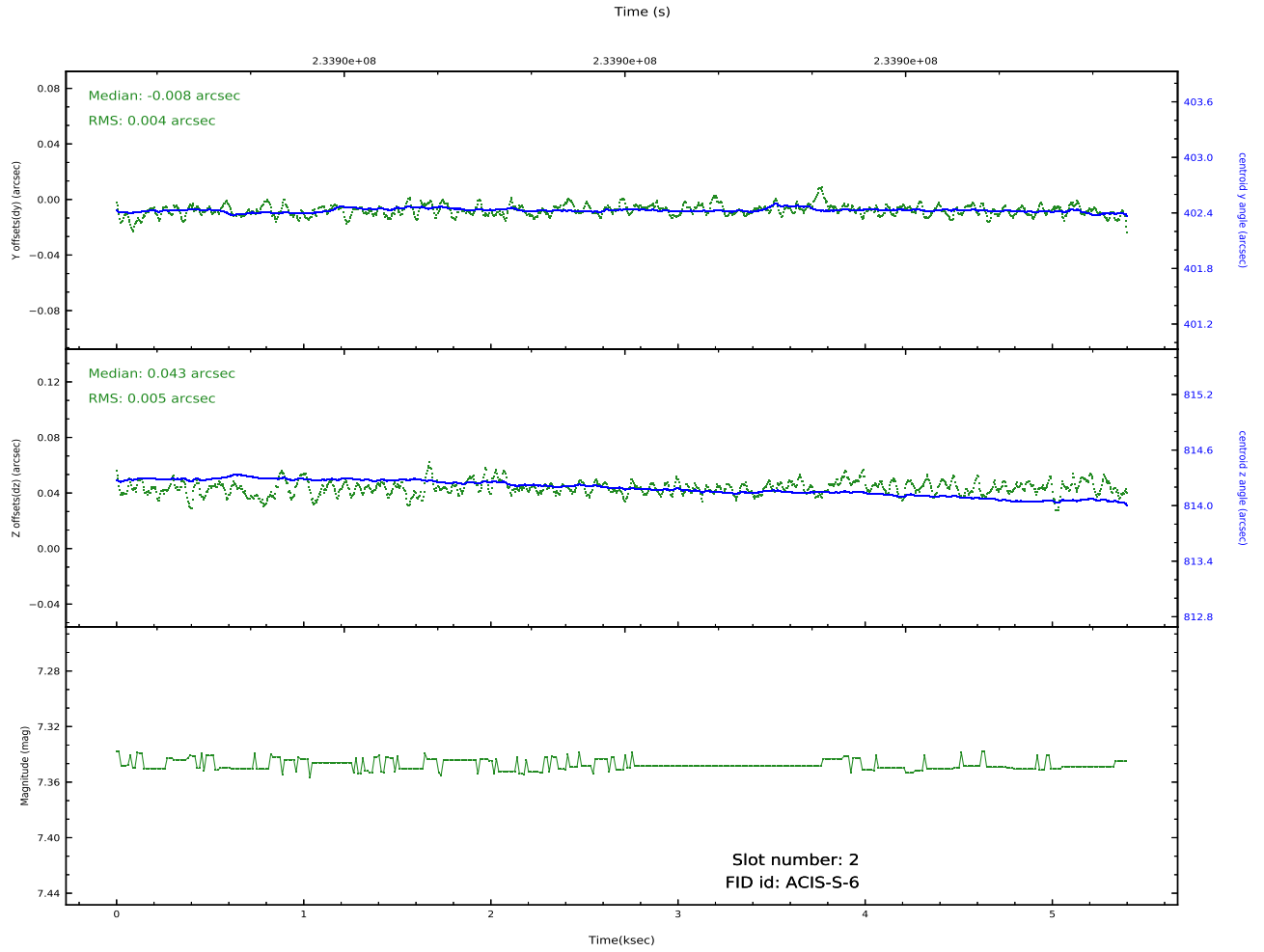
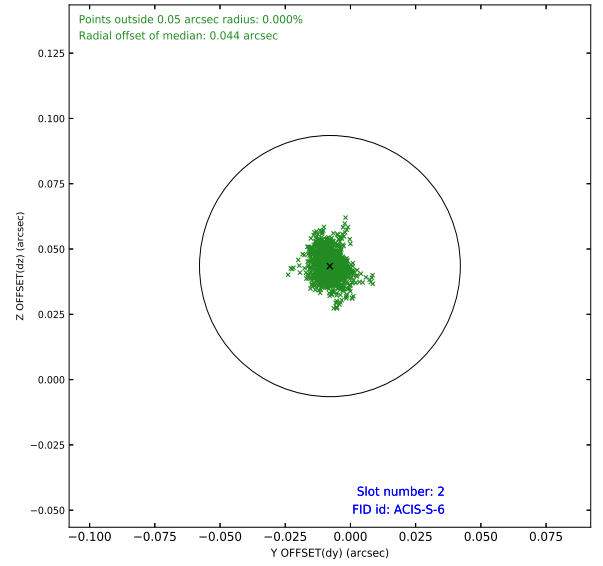
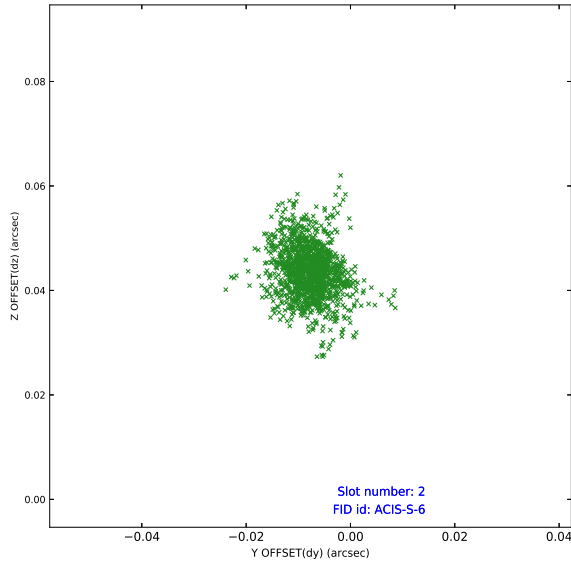
### 2.5.1 Slot 0



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)	2020.10.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0072

### **A.2 Comments**