

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9694 - L2 Version 2  
Chandra X-Ray Center

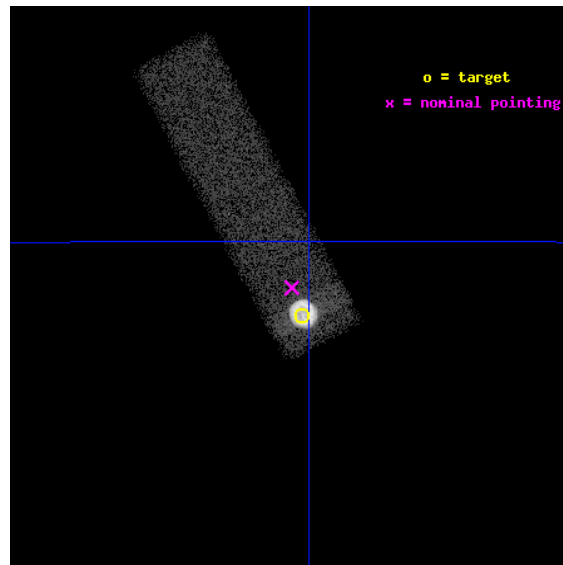
L2 Processing Date : May 9 2012

## 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

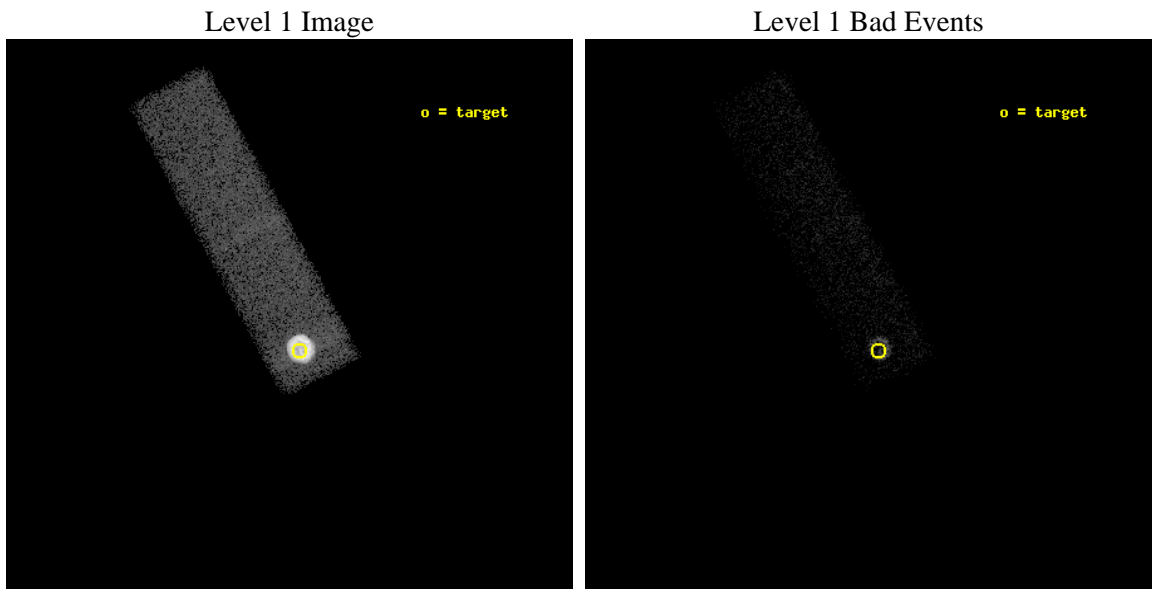
seq_num	590472	Sequence number
obs_id	9694	Observation id
title	AO9 Calibration Observations of E0102-72	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	E0102-72 S3,-120,1,0,0	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA [deg]
dec_targ	-72.032028	Observer's specified target Dec [deg]
ra_nom	16.024718511146	Nominal RA [deg]
dec_nom	-72.020229983746	Nominal Dec [deg]
roll_nom	241.66900778289	Nominal Roll [deg]
revision	2	Processing version of data
ontime	20180.800300777	Sum of GTIs [s]
livetime	19196.043280488	Livetime [s]
ontime7	20180.800300777	Sum of GTIs [s]
l2events	148374	Number of level 2 events



## 2 OBI

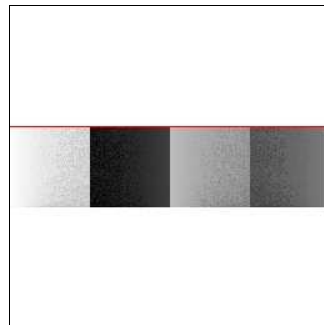
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	20180.800300777	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime7	20180.800300777	Sum of GTIs [s]
date	2012-05-09T04:37:27	Date and time of file creation	l1events	170660	Number of level 1 events
revision	2	Processing version of data			

### 2.1.4 Events

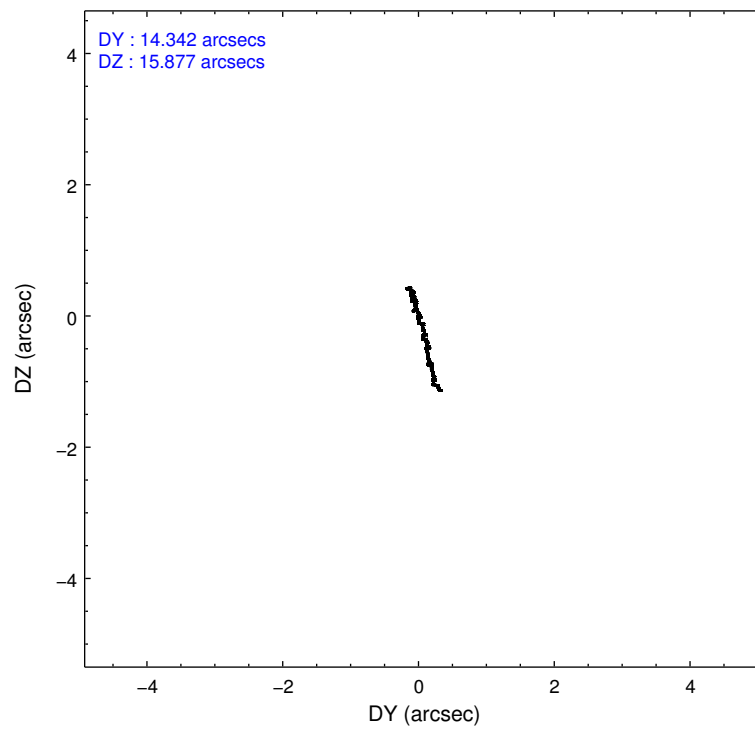
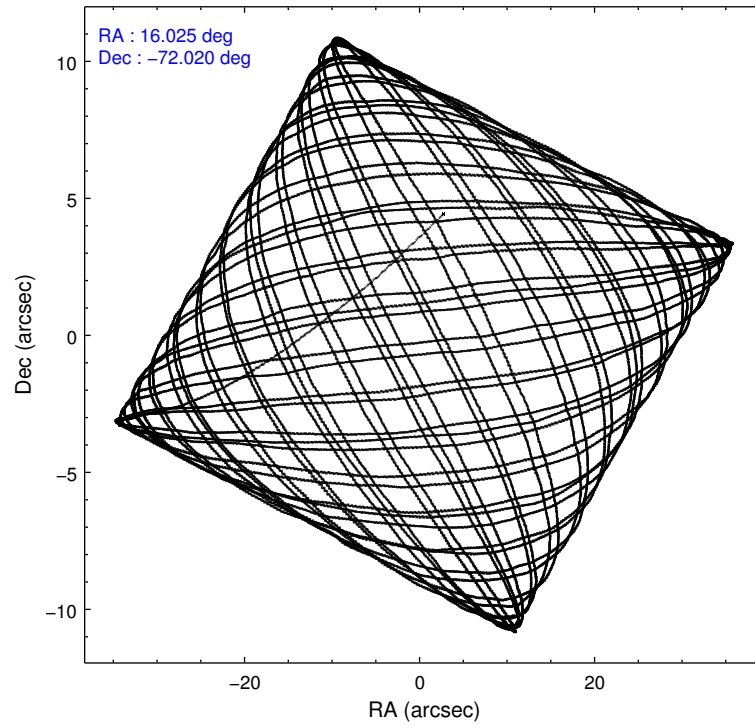
	<b>ccd 7</b>
level 1 events	170660
rejected events	21451
rejected %	<b>12%</b>

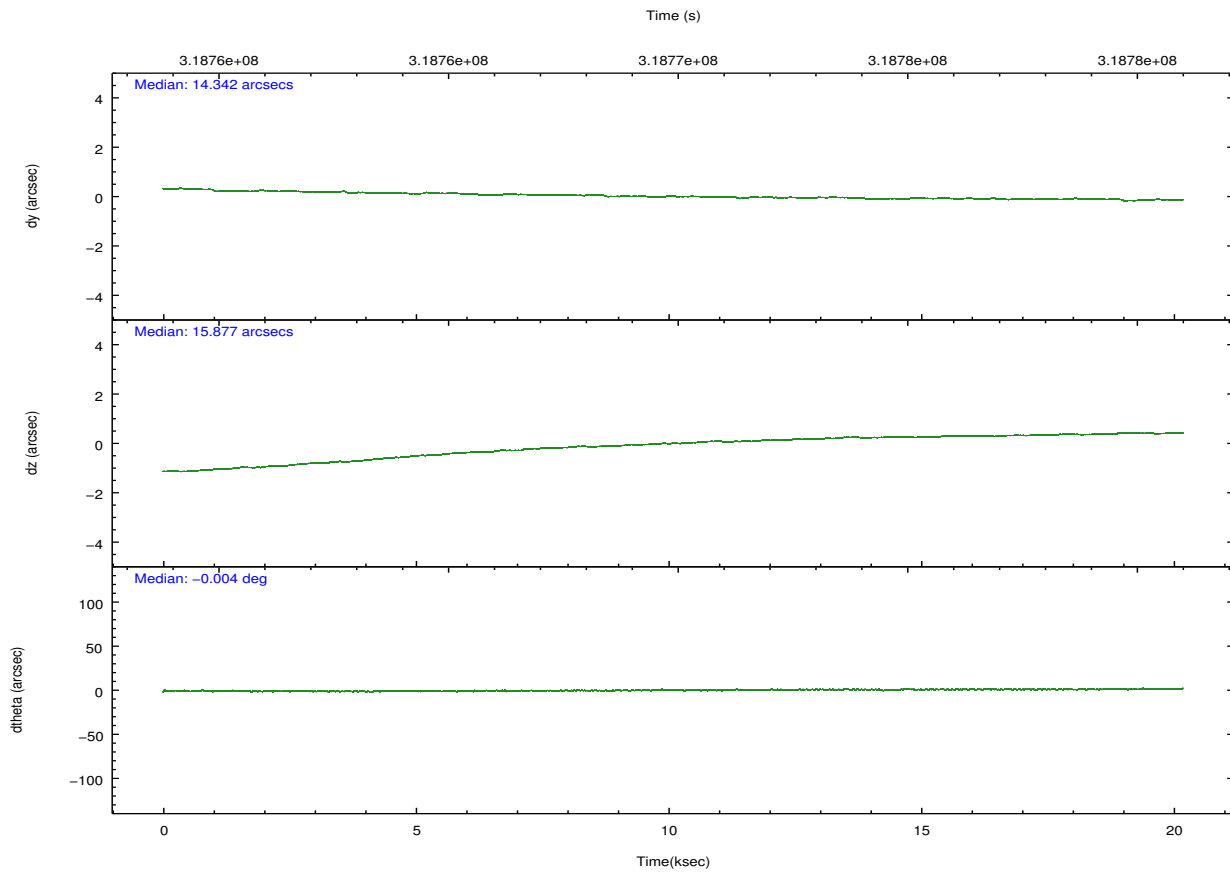
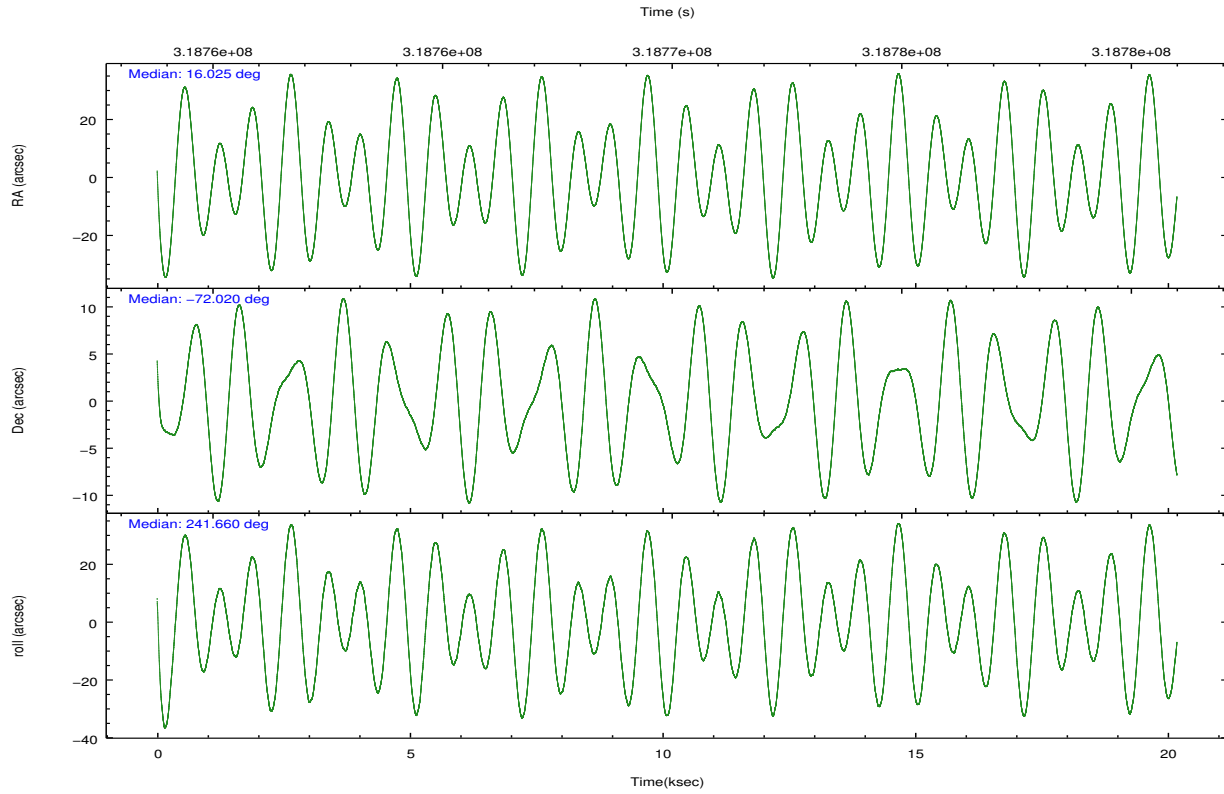
	<b>ccd 7</b>
grade 0 events	42397
	24%
grade 1 events	241
	0%
grade 2 events	41091
	24%
grade 3 events	18769
	10%
grade 4 events	18160
	10%
grade 5 events	5424
	3%
grade 6 events	30572
	17%
grade 7 events	14006
	8%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	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	16.021022	16.02471851114584	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-71.992900	-72.02022998374572	Subarray start row	384	384
[deg] Pointing Roll	241.508868	241.6690077828949	Subarray row count	256	256
[s] Window start time (MET)	312854465.184000	312854465.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	325900865.184000	325900865.184000	[s] Primary exposure time	0.000000	0.8
[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)	318759977.184000	318758811.47175			
Observation start date	2008-02-07T08:25:12	2008-02-07T08:06:51			
[s] Observation end time (MET)	318779977.184000	318780111.48529			
Observation end date	2008-02-07T13:58:32	2008-02-07T14:01:51			
Read mode	TIMED	TIMED			

## 2.3 Aspect



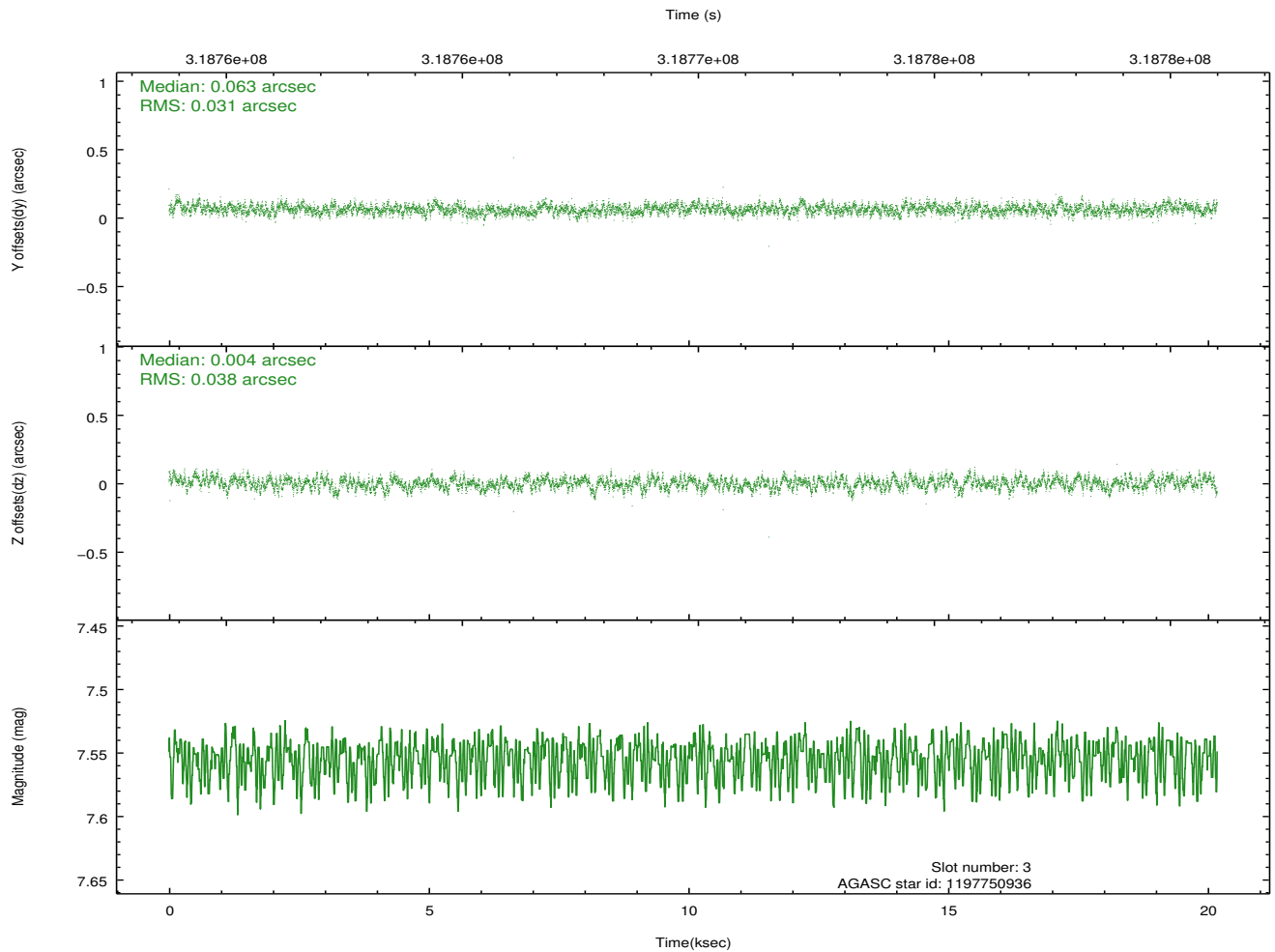
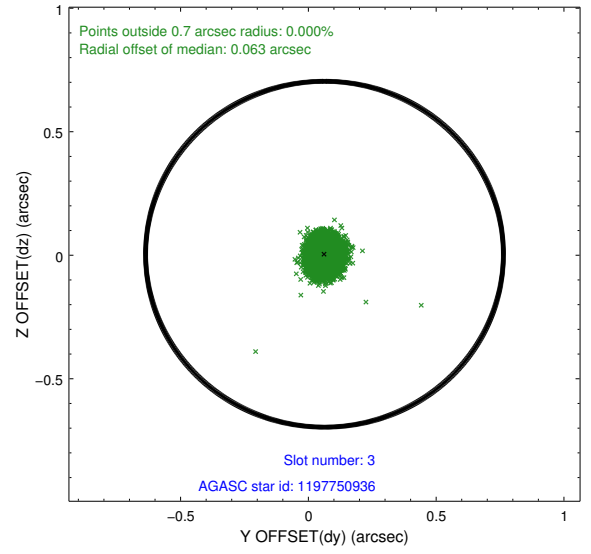
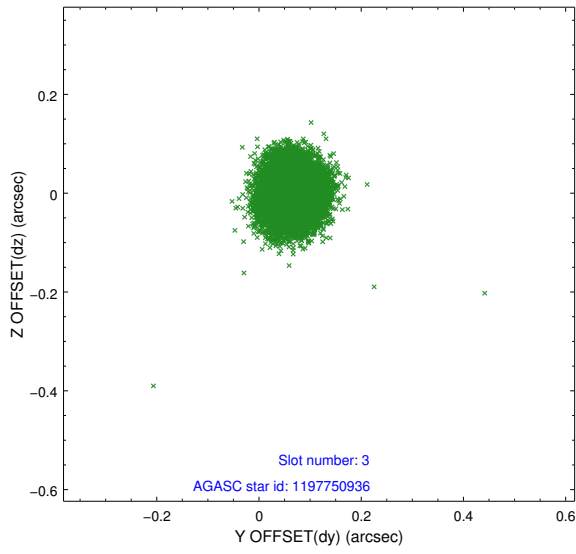


### Slot Statistics

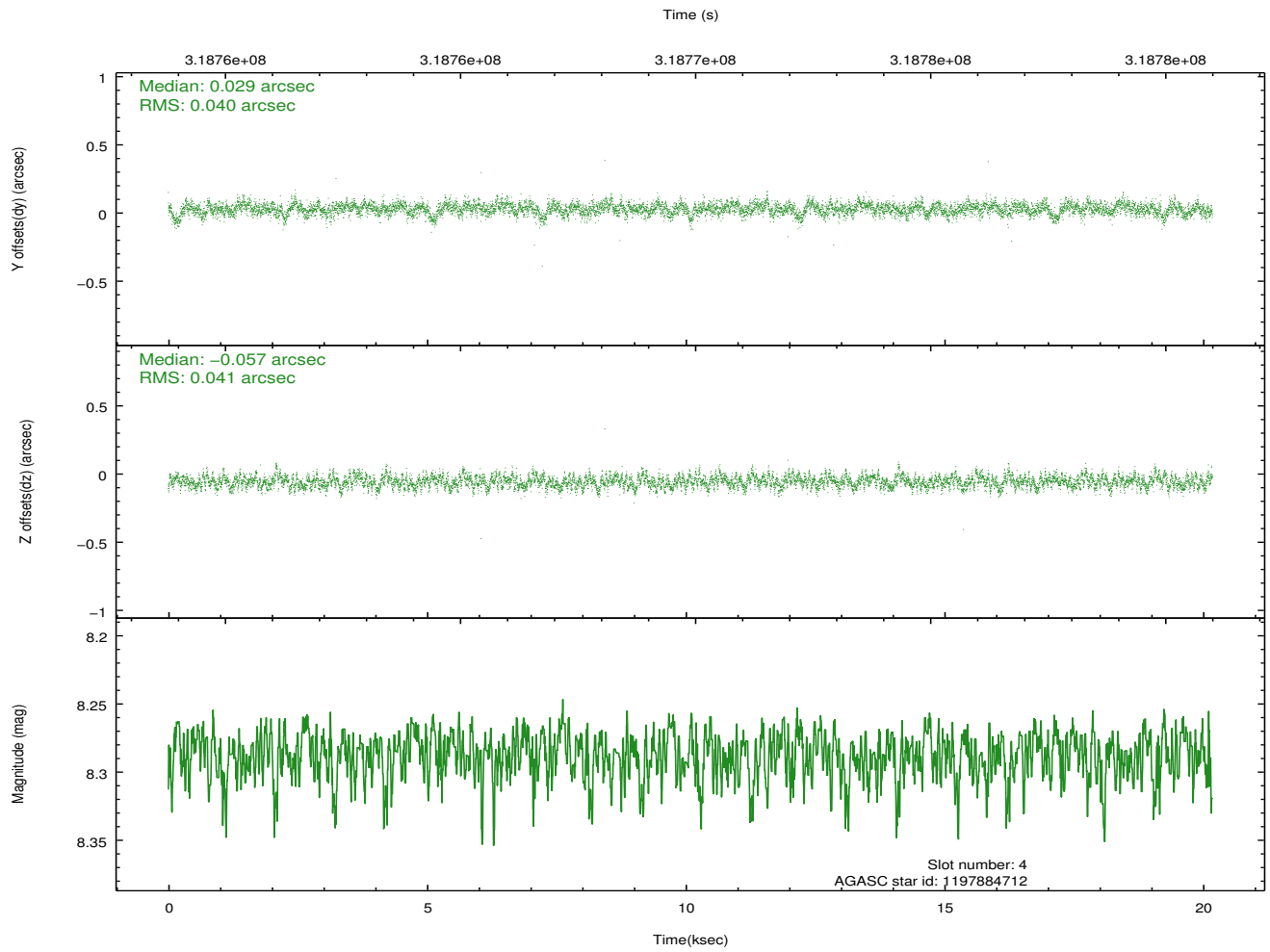
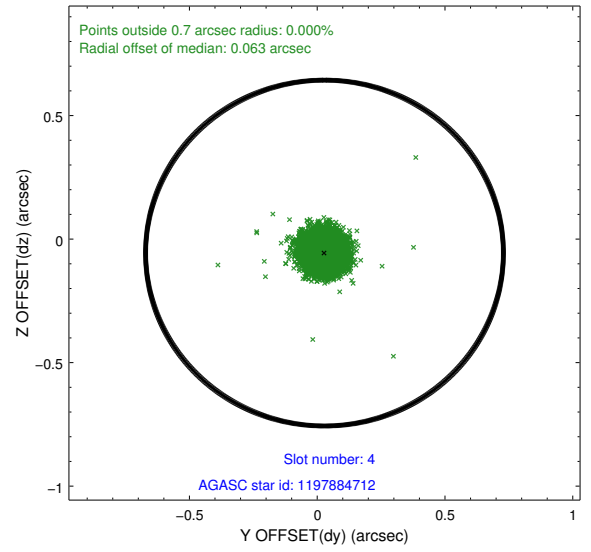
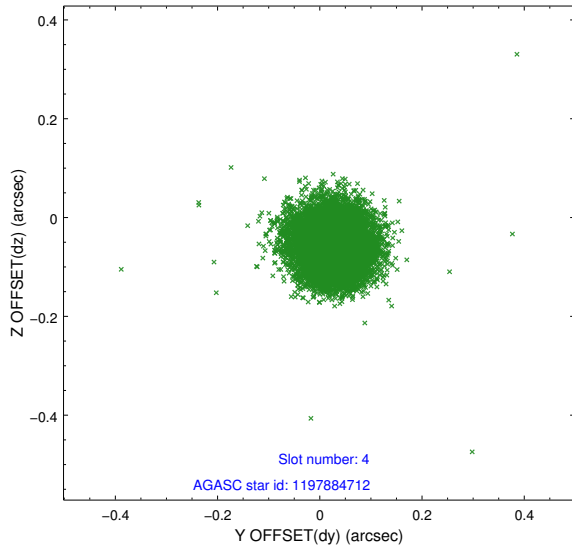
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.88	4923	-0.072	-0.012	0.013	0.019	0.000000	0.000000	-767.39	-1737.15
1	FID	ACIS-S-4	6.97	4923	0.182	0.038	0.011	0.017	0.000000	0.000000	2146.05	171.20
2	FID	ACIS-S-5	6.99	4923	-0.142	-0.017	0.008	0.019	0.000000	0.000000	-1820.07	165.02
3	GUIDE	1197750936	7.55	9845	0.063	0.004	0.052	0.083	15.387940	-71.549550	-1054.60	-1393.21
4	GUIDE	1197884712	8.29	9838	0.029	-0.057	0.060	0.097	16.087398	-72.252690	787.38	510.36
5	GUIDE	1197885104	9.36	9835	0.073	-0.056	0.107	0.174	17.845067	-72.189368	-308.96	2117.03
6	GUIDE	1197885328	7.23	9844	-0.000	0.176	0.059	0.094	16.283090	-71.733943	-960.33	-183.50
7	GUIDE	1198283128	7.84	9843	-0.165	-0.073	0.083	0.129	17.272580	-72.642428	1425.90	2303.80

## 2.4 Star Slots

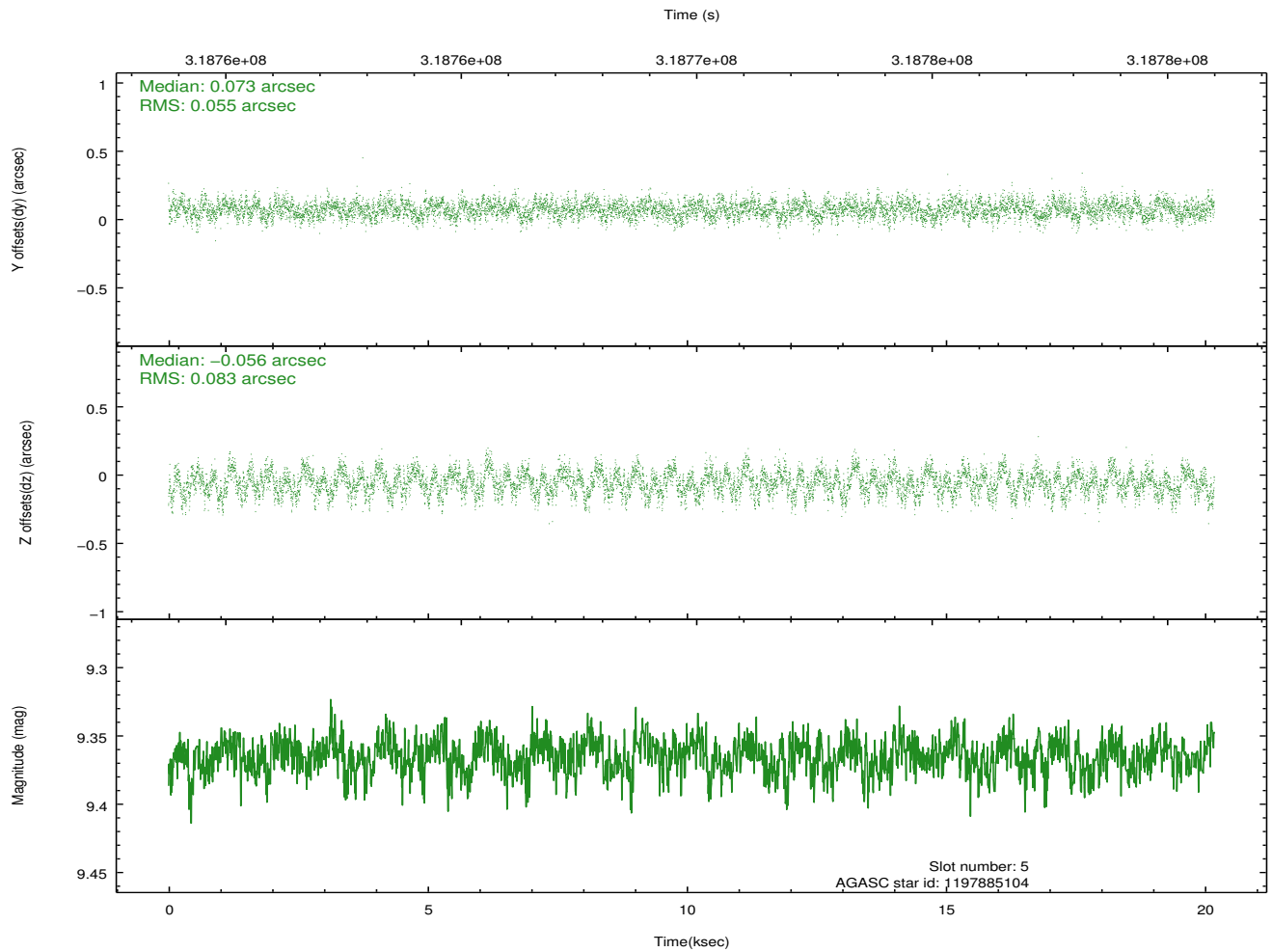
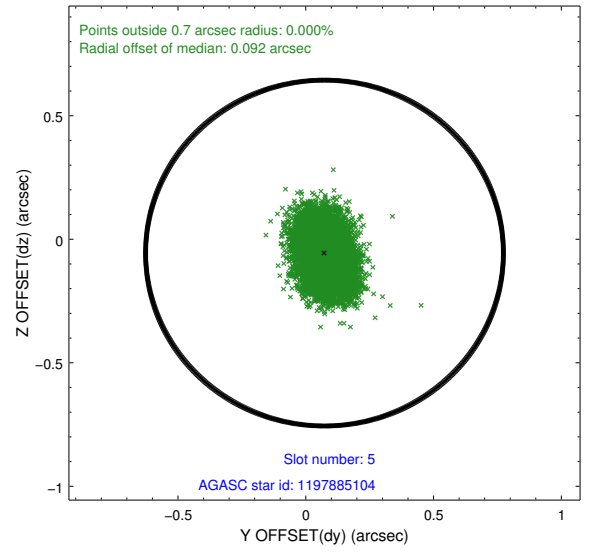
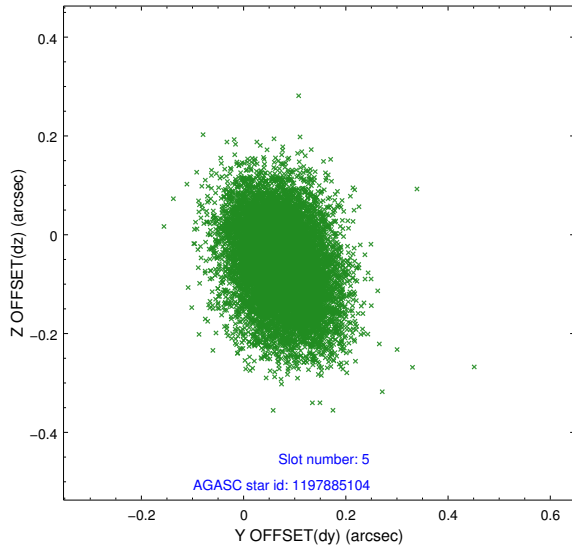
### 2.4.1 Slot 3



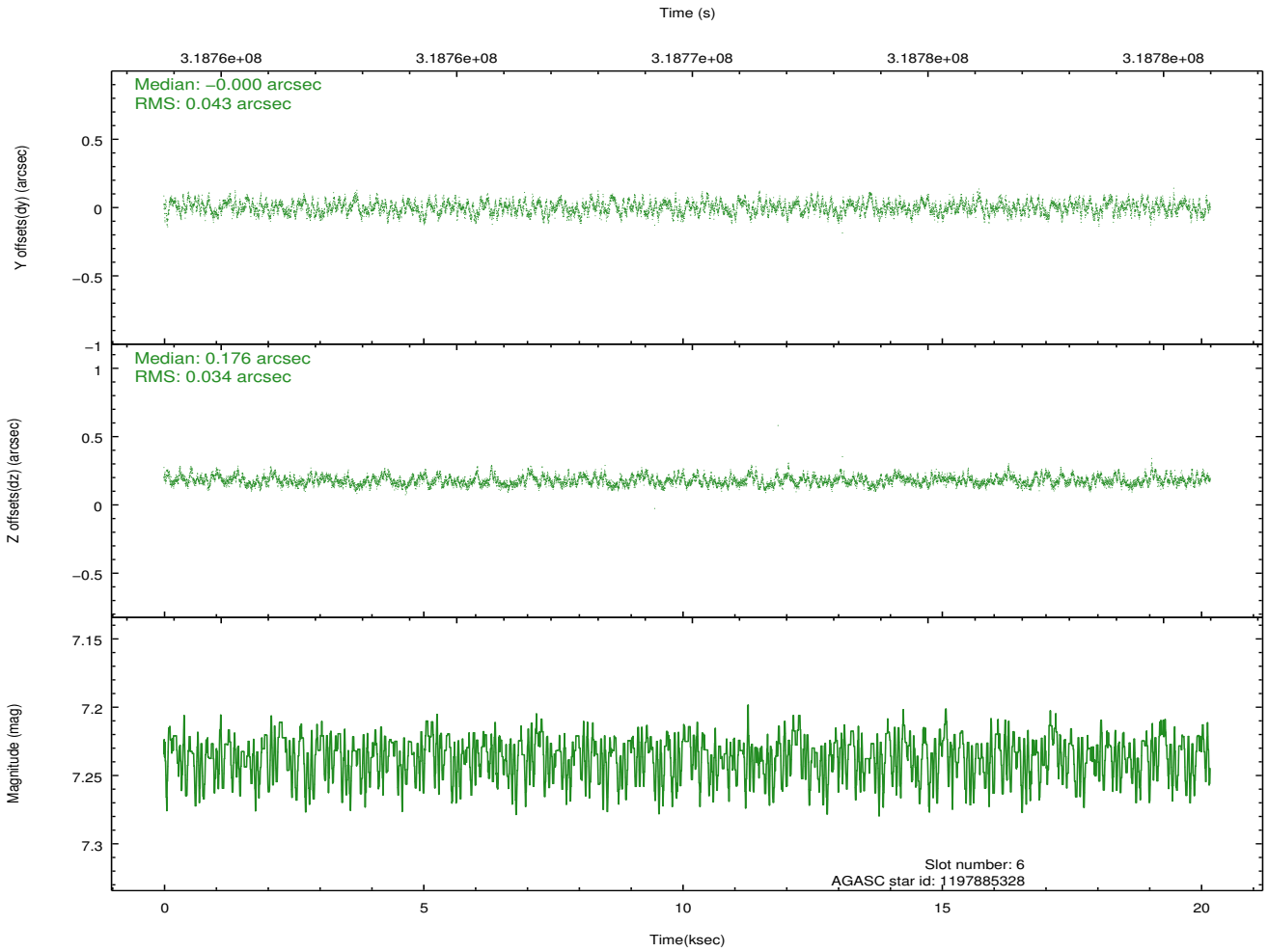
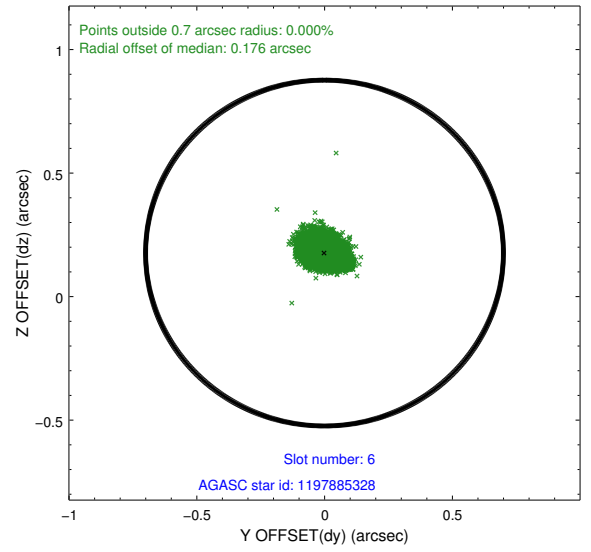
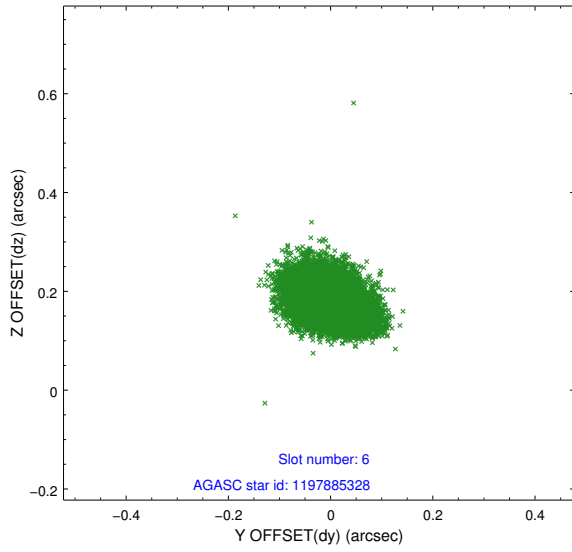
## 2.4.2 Slot 4



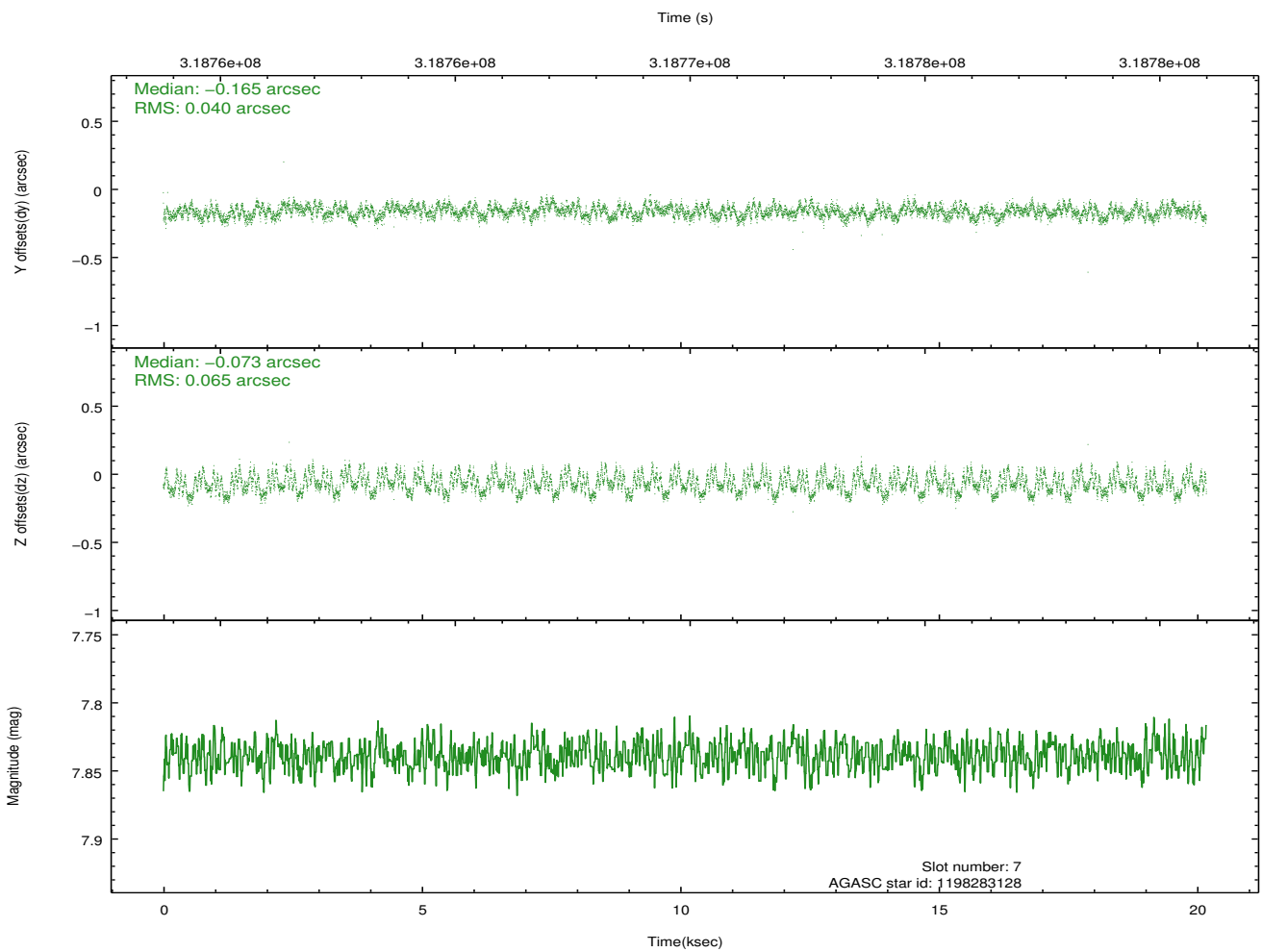
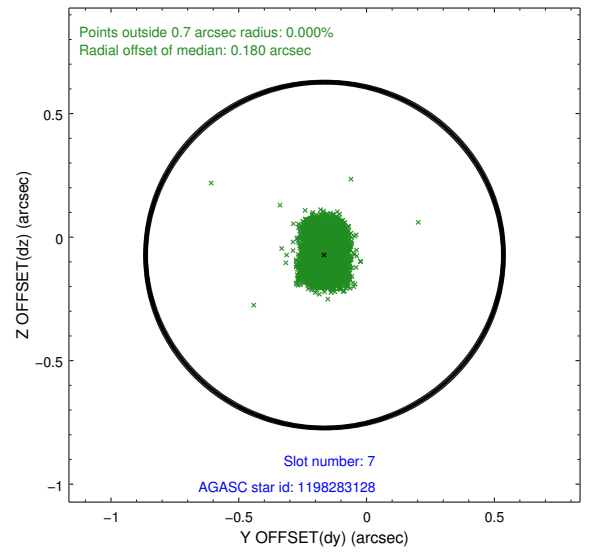
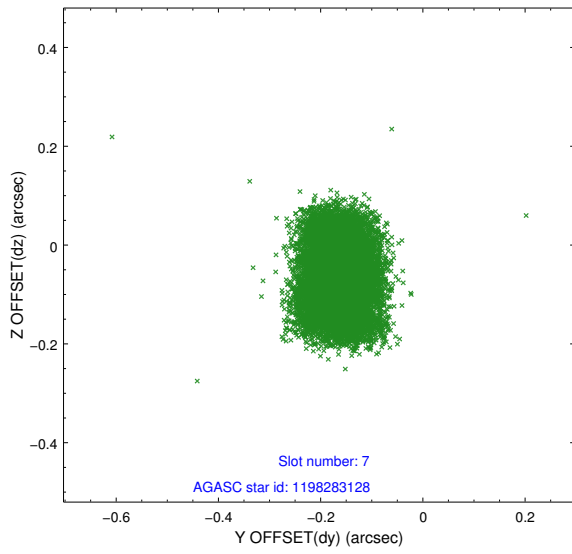
### 2.4.3 Slot 5



### 2.4.4 Slot 6

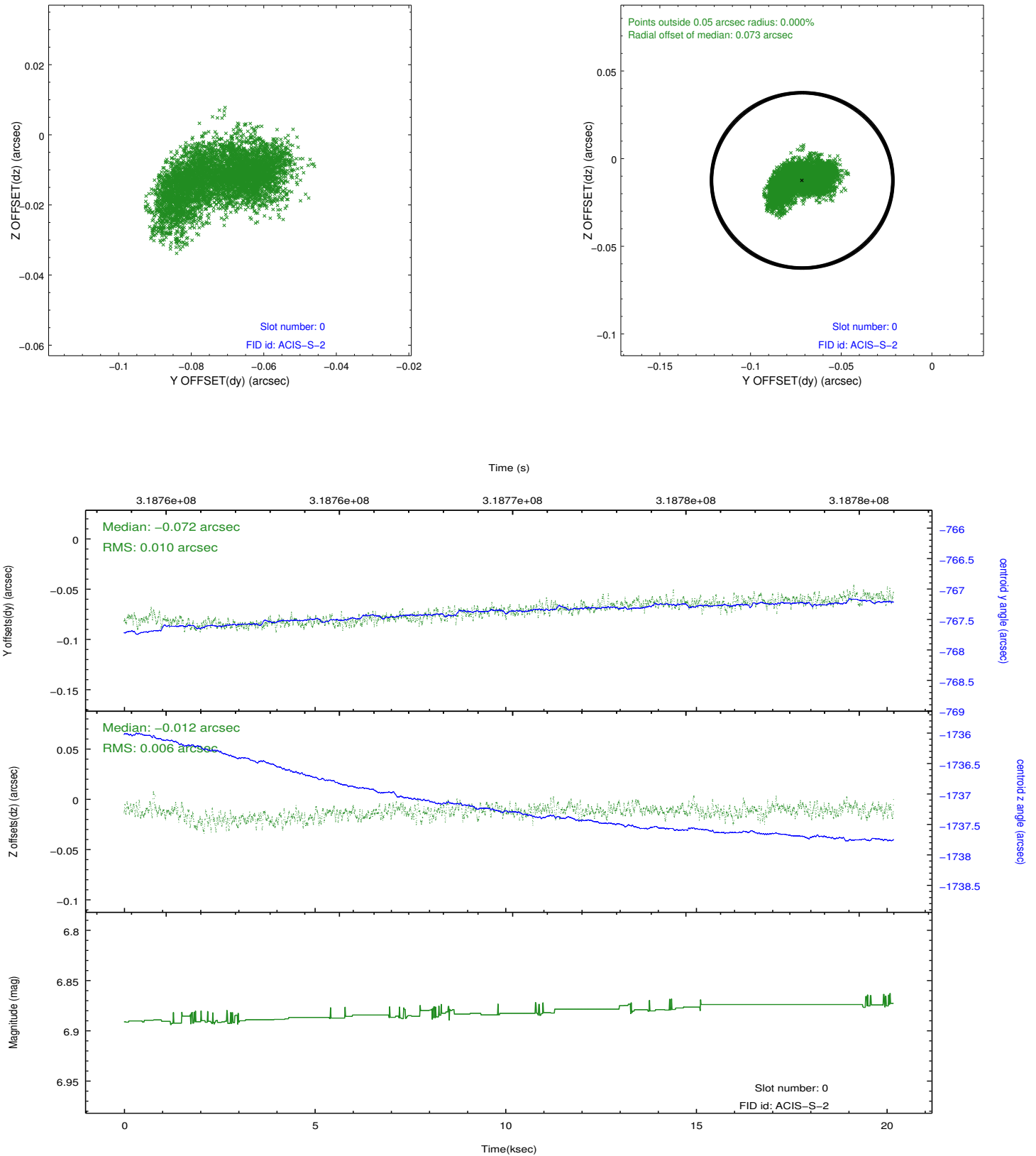


## 2.4.5 Slot 7

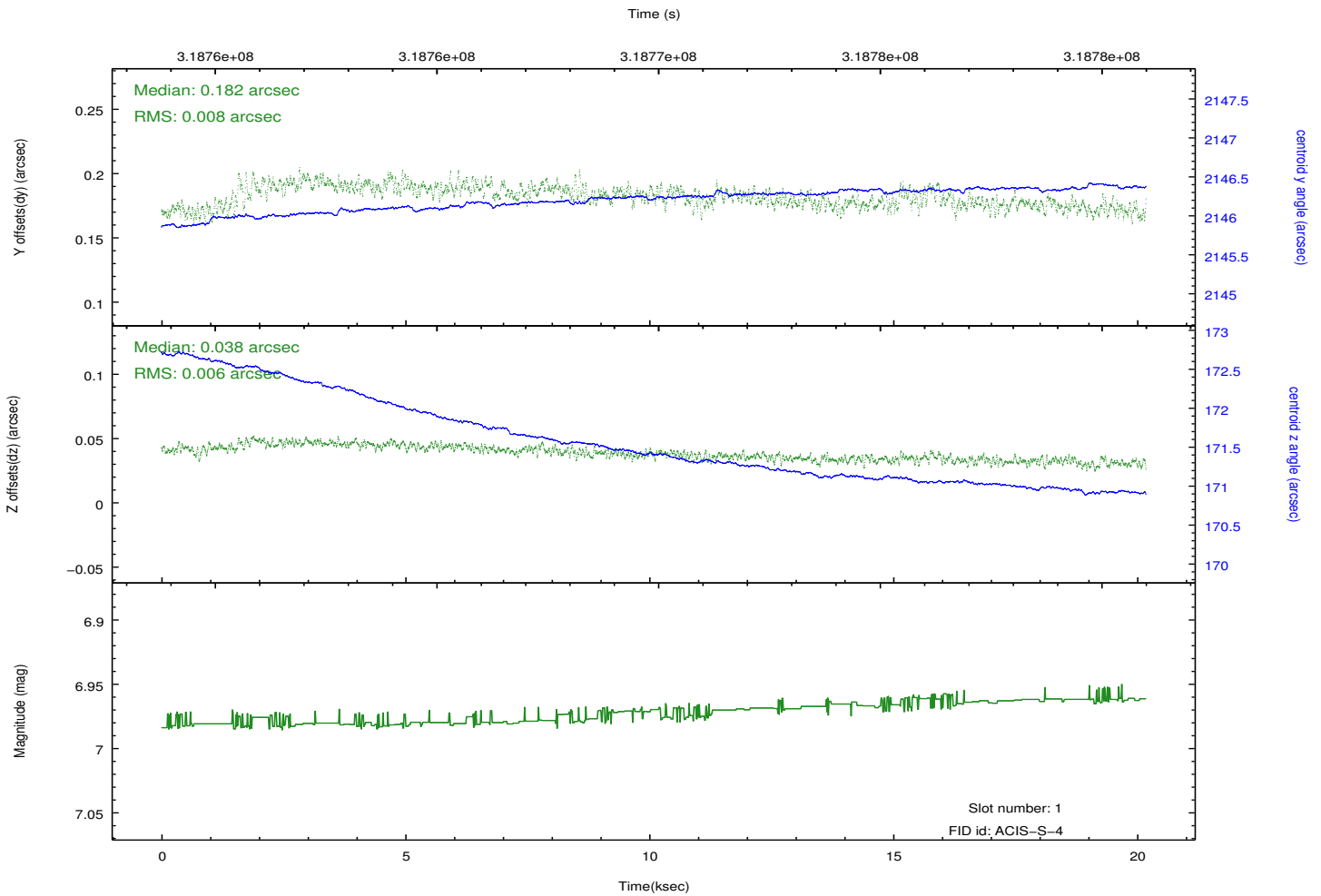
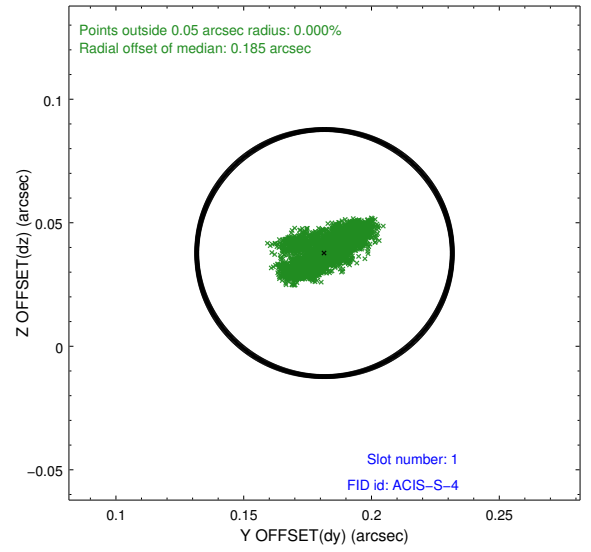
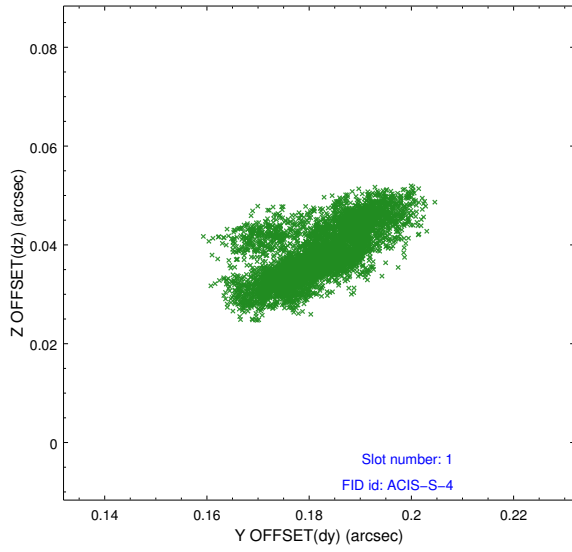


## 2.5 FID Slots

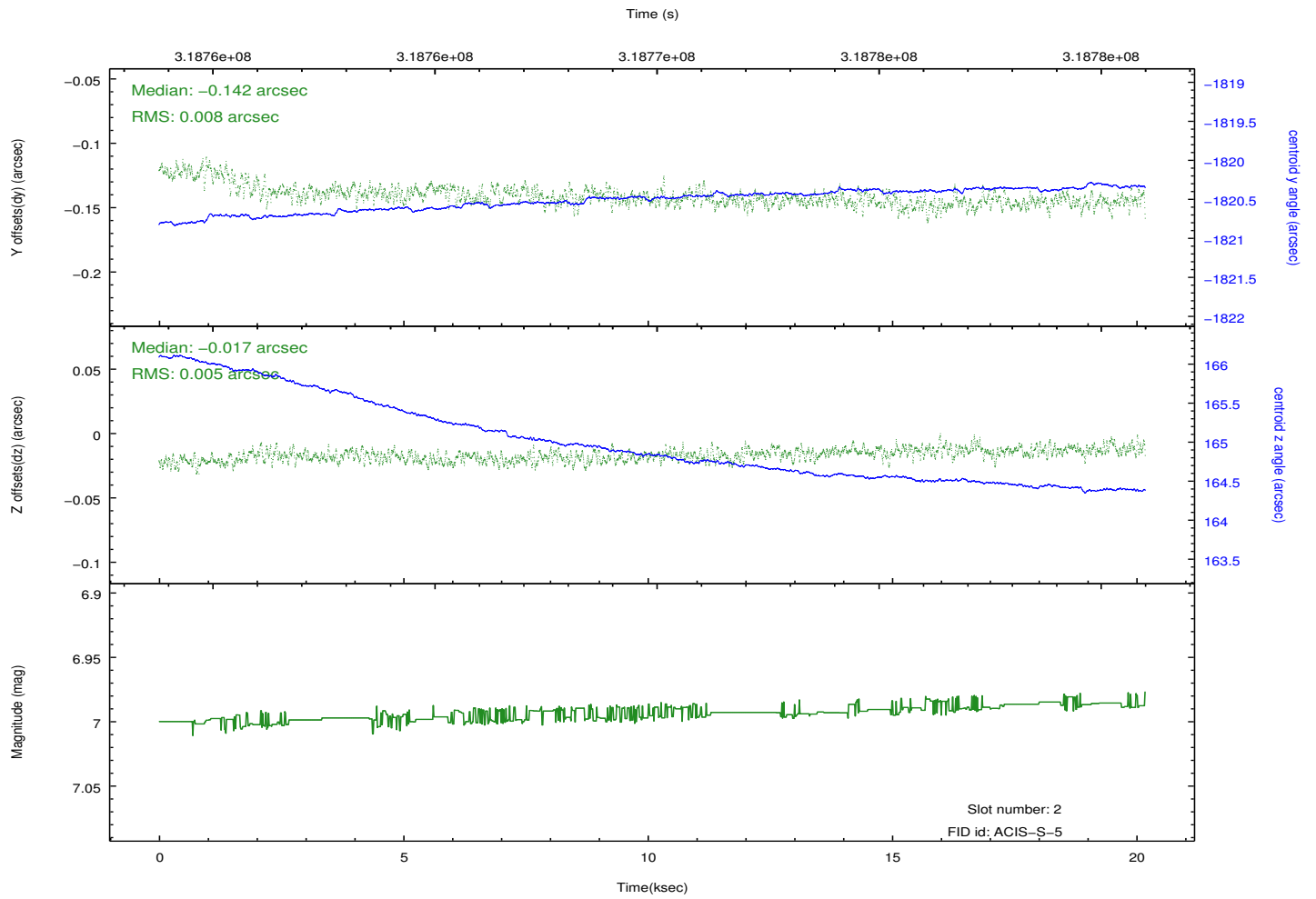
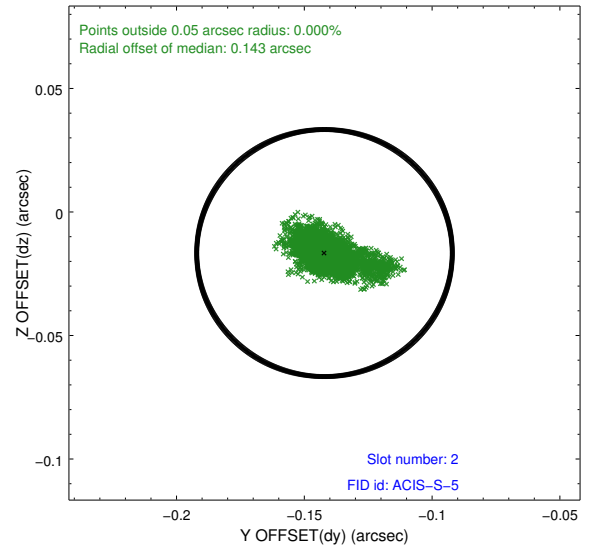
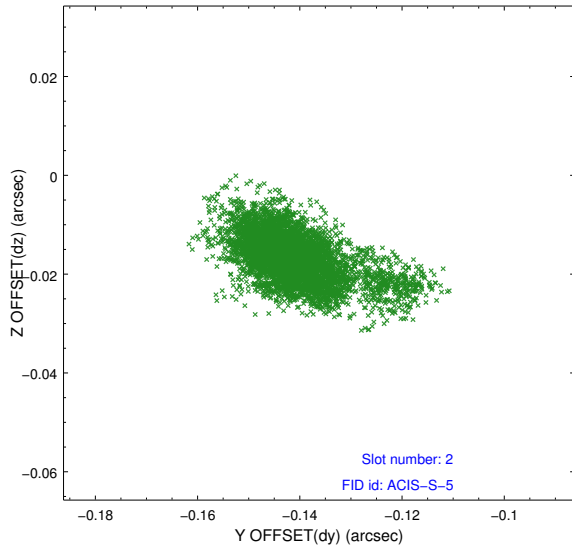
### 2.5.1 Slot 0



## 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)	2012.05.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.1808003

## A.2 Comments

Target offset from aim point by 1 arcmin for calibration purposes. Time constraint met.