

# V&V Reference Report

## L2 ASCDS Version : 10.4.2.1

Observation 18717 - L2 Version 1  
Chandra X-Ray Center

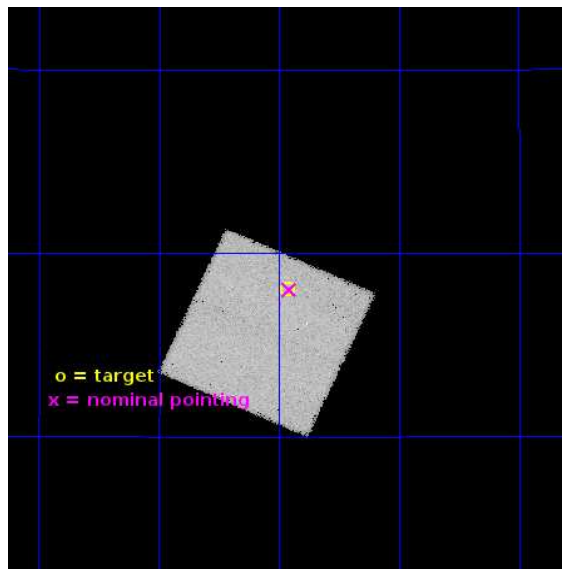
L2 Processing Date : Nov 24 2015

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# 1 Front

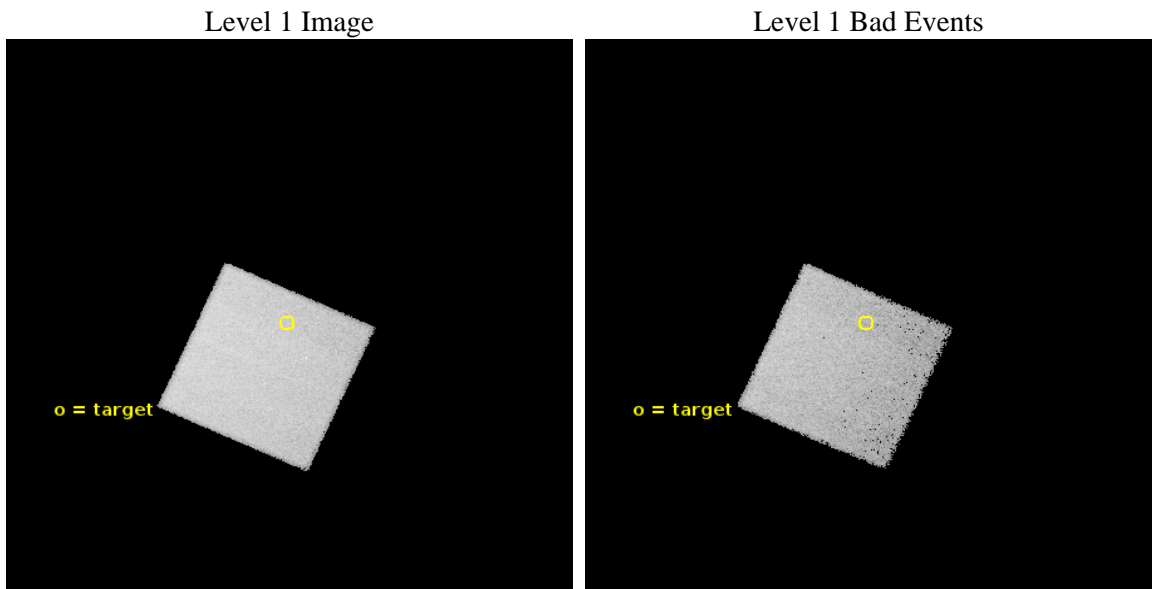
seq_num	502660	Sequence number
obs_id	18717	Observation id
title	Search for an X-ray counterpart from a repeating Fast Radio Burst	&#160
observer	Mr Paul Scholz	Principal investigator
object	FRB 121102	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	82.991667	Observer's specified target RA [deg]
dec_targ	33.134444	Observer's specified target Dec [deg]
ra_nom	82.989332372011	Nominal RA [deg]
dec_nom	33.133477976419	Nominal Dec [deg]
roll_nom	114.30200500685	Nominal Roll [deg]
revision	1	Processing version of data
ontime	40092.0	Sum of GTIs [s]
liveltime	39550.943098414	Livetime [s]
ontime7	40092.0	Sum of GTIs [s]
l2events	124656	Number of level 2 events



## 2 OBI

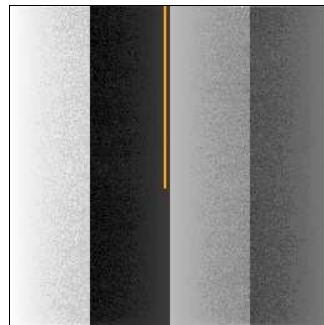
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	40000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.2.1	Processing system revision	ontime	40092.0	Sum of GTIs [s]
caldbver	4.6.10a	&#160	ontime7	40092.0	Sum of GTIs [s]
date	2015-11-24T11:57:53	Date and time of file creation	l1events	291610	Number of level 1 events
revision	1	Processing version of data			

### 2.1.4 Events

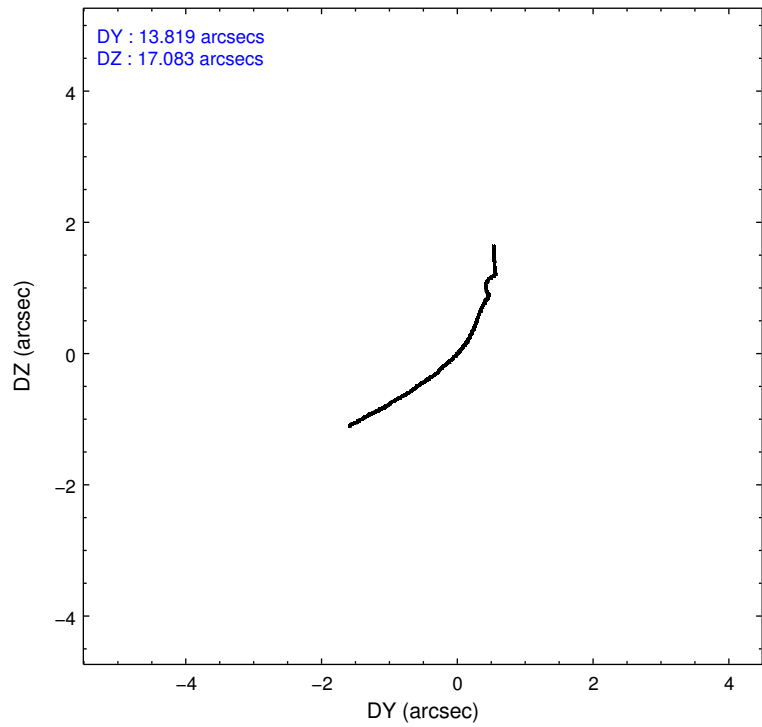
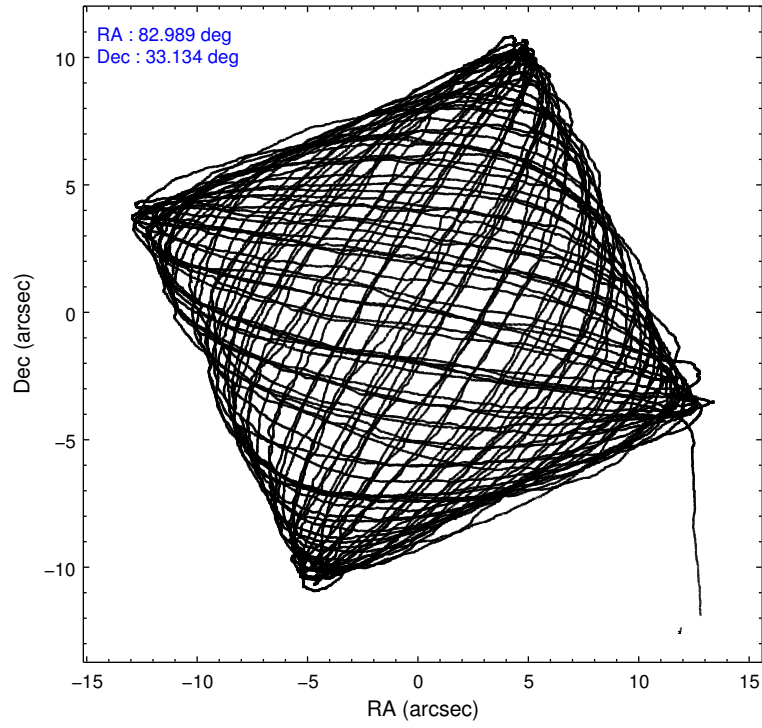
	<b>ccd 7</b>
level 1 events	291610
rejected events	163635
rejected %	<b>56%</b>

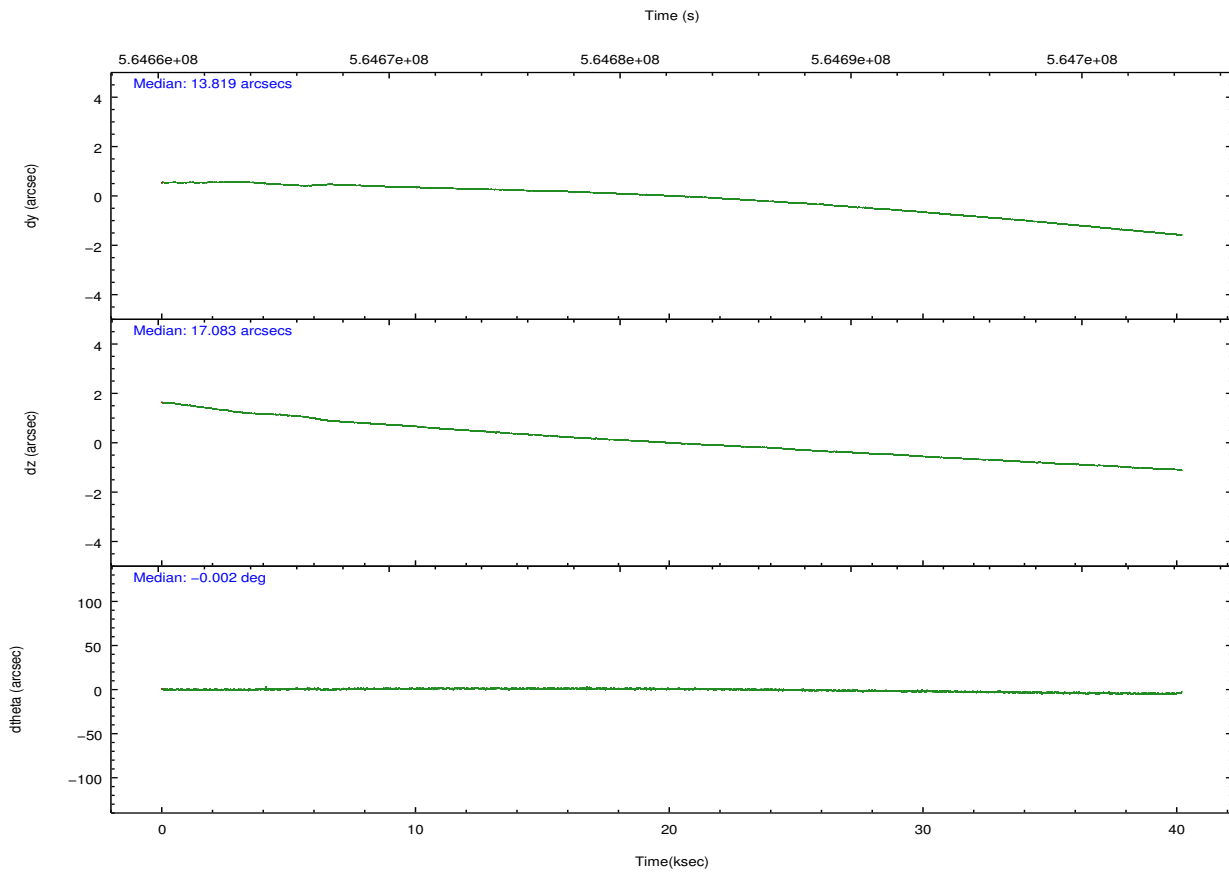
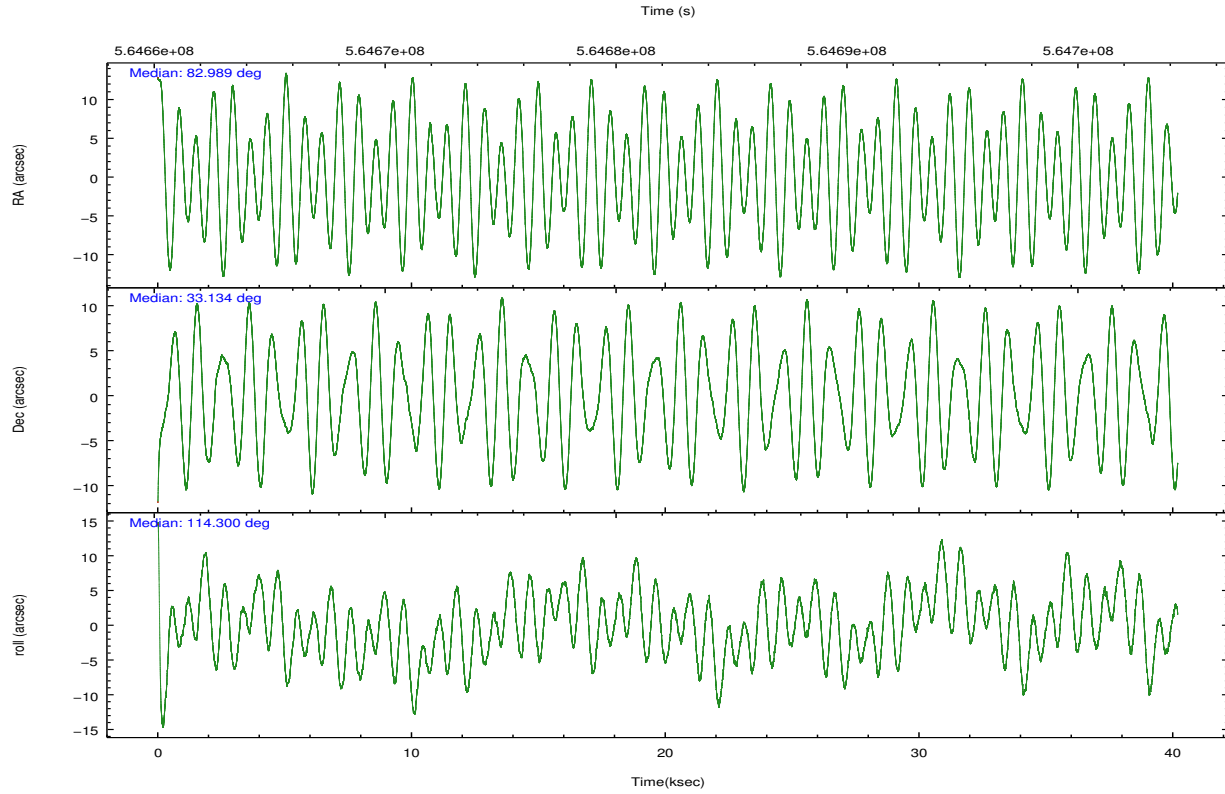
	<b>ccd 7</b>
grade 0 events	10838
	3%
grade 1 events	367
	0%
grade 2 events	26483
	9%
grade 3 events	10546
	3%
grade 4 events	10378
	3%
grade 5 events	29519
	10%
grade 6 events	69738
	23%
grade 7 events	133741
	45%

## 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	83.016194	82.98933237201068	Subarray requested	NONE	NONE
[deg] Pointing Dec	33.117761	33.13347797641948	Alternating exposures requested	N	N
[deg] Pointing Roll	114.130687	114.3020050068496	[s] Primary exposure time	0.000000	3
[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)	564662340.184000	564661060.41343			
Observation start date	2015-11-23T10:37:52	2015-11-23T10:17:40			
[s] Observation end time (MET)	564702340.184000	564703385.22833			
Observation end date	2015-11-23T21:44:32	2015-11-23T22:03:05			
Read mode	TIMED	TIMED			

## 2.3 Aspect



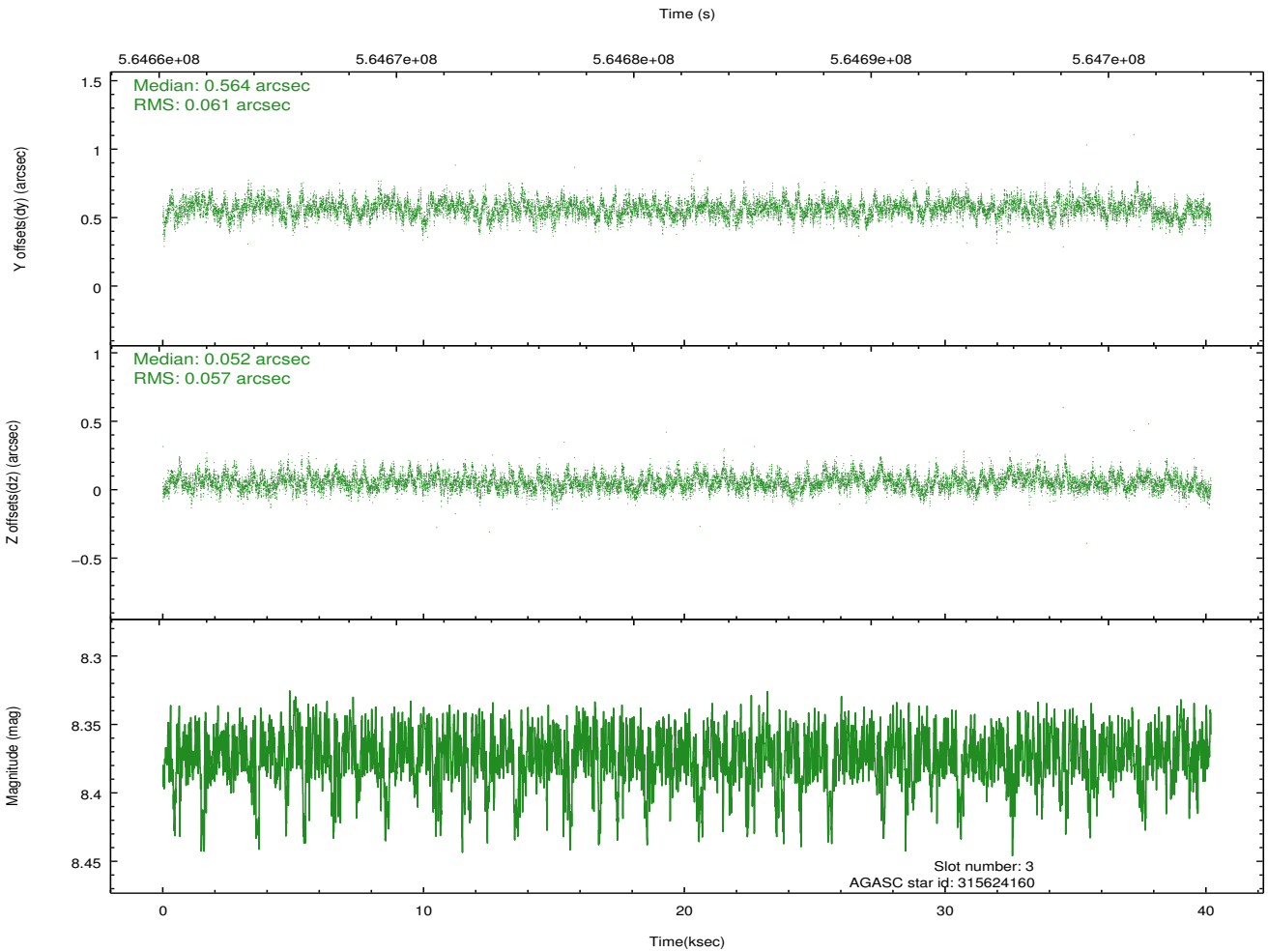
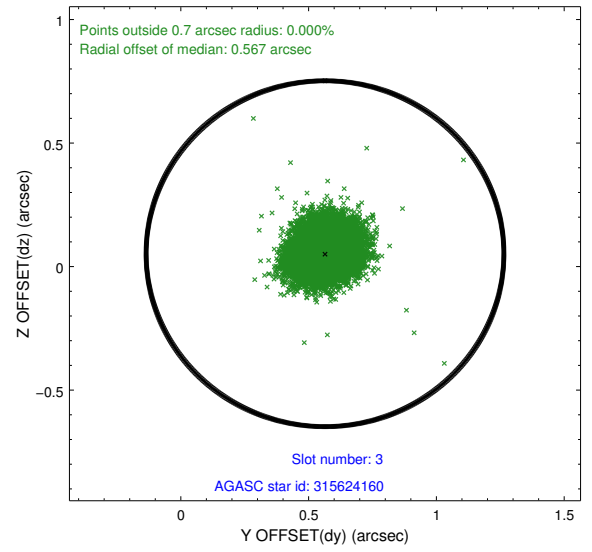
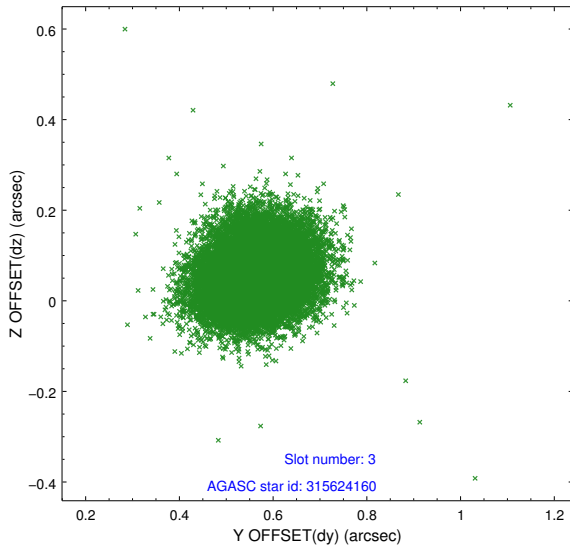


### Slot Statistics

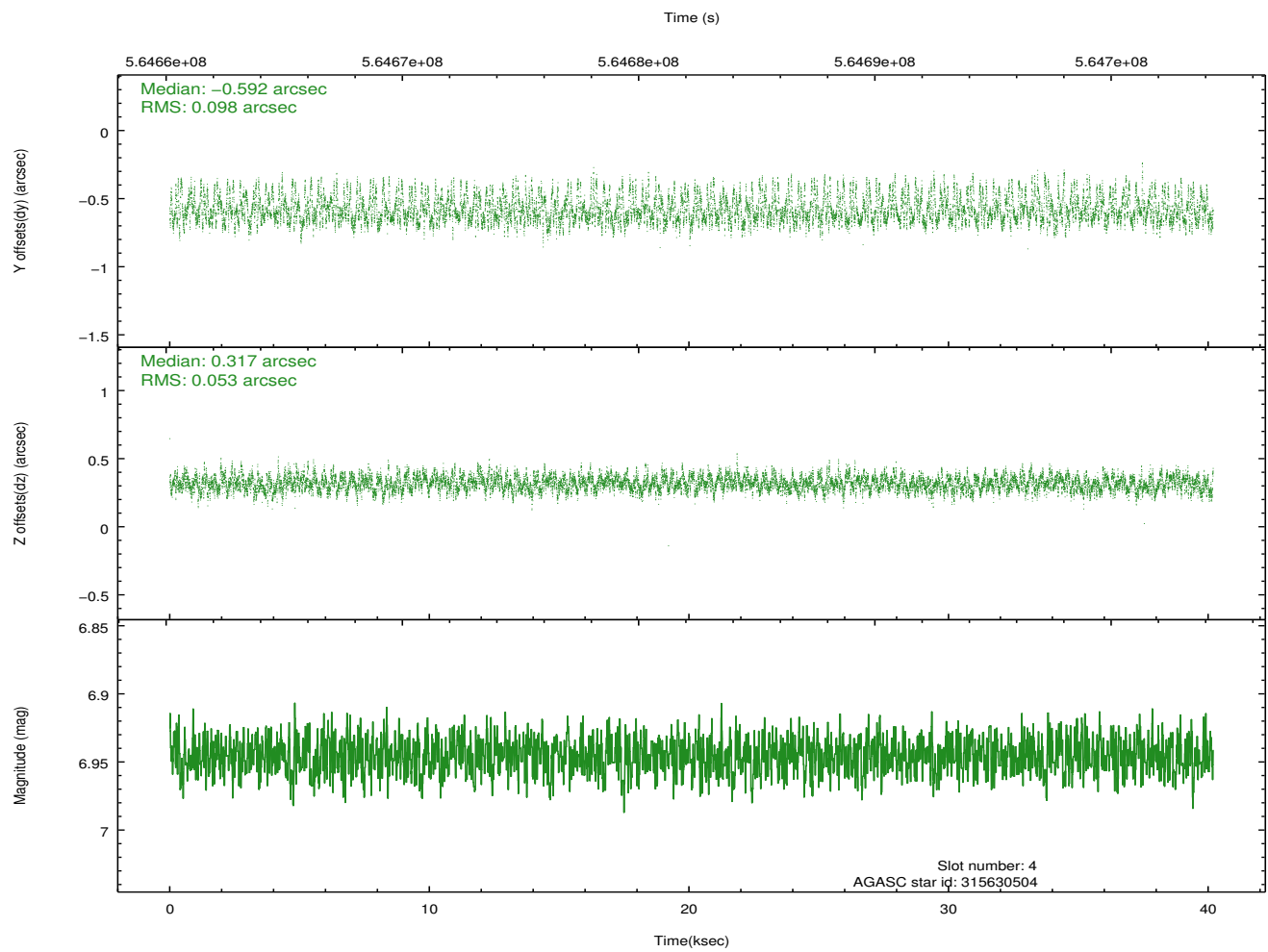
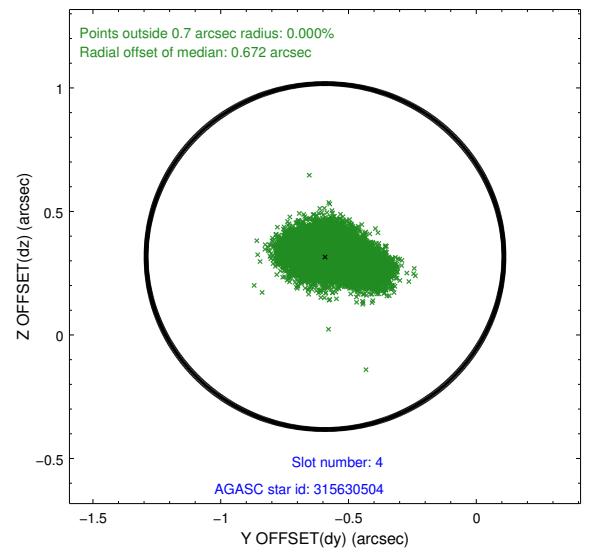
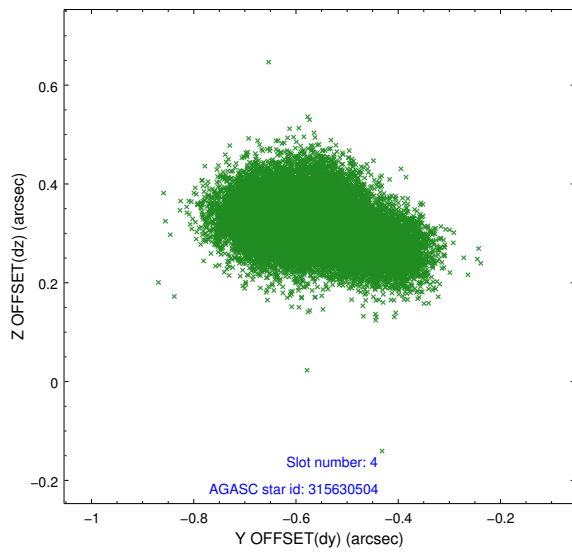
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.11	9801	-0.236	-0.170	0.024	0.056	0.000000	0.000000	-766.84	-1738.74
1	FID		ACIS-S-4	7.21	9802	0.286	0.113	0.022	0.035	0.000000	0.000000	2146.99	169.94
2	FID		ACIS-S-6	7.35	9801	-0.079	0.058	0.015	0.024	0.000000	0.000000	395.38	807.33
3	GUIDE	used	315624160	8.37	19596	0.564	0.052	0.088	0.145	83.810049	32.749121	-2184.85	-1654.52
4	GUIDE	used	315630504	6.95	19605	-0.592	0.317	0.114	0.205	83.364178	32.801184	-1469.58	-495.31
5	GUIDE	used	315506288	8.77	19591	-0.136	-0.221	0.118	0.190	82.411457	33.467951	1896.86	1139.97
6	GUIDE	used	315506864	8.83	19594	-0.080	-0.294	0.095	0.156	82.414572	33.451761	1840.14	1155.61
7	GUIDE	used	316027440	9.04	19590	0.222	0.148	0.155	0.250	83.112095	33.895491	2438.31	-1405.76

## 2.4 Star Slots

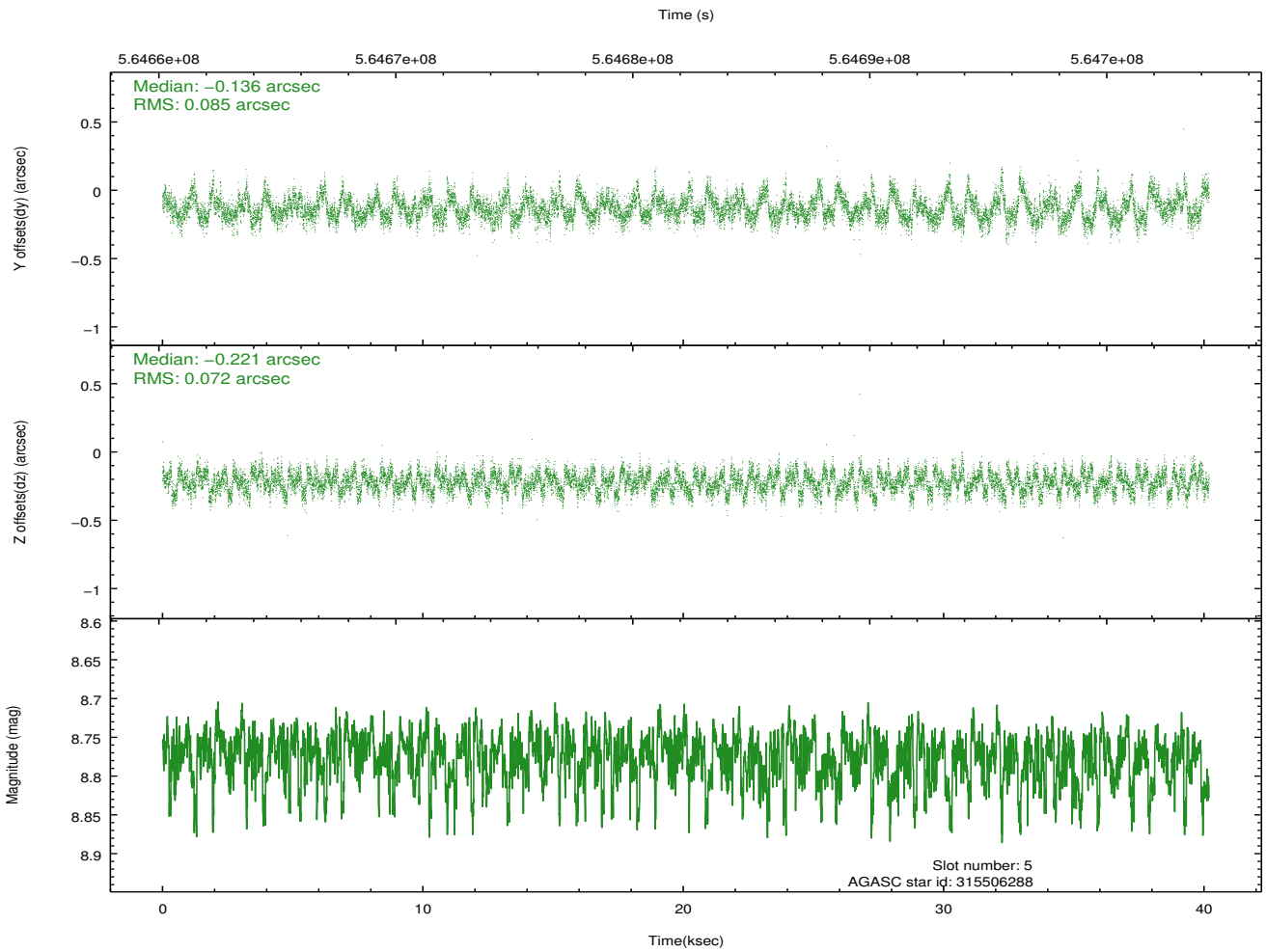
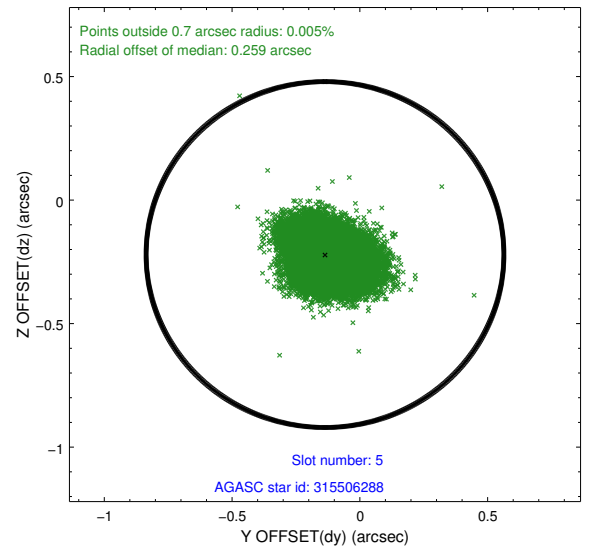
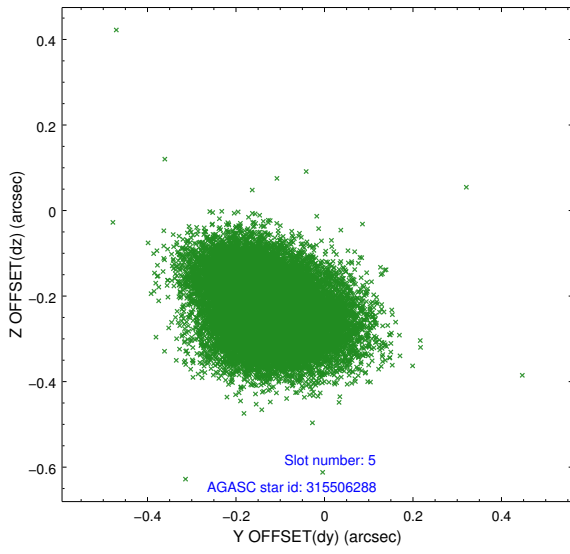
### 2.4.1 Slot 3



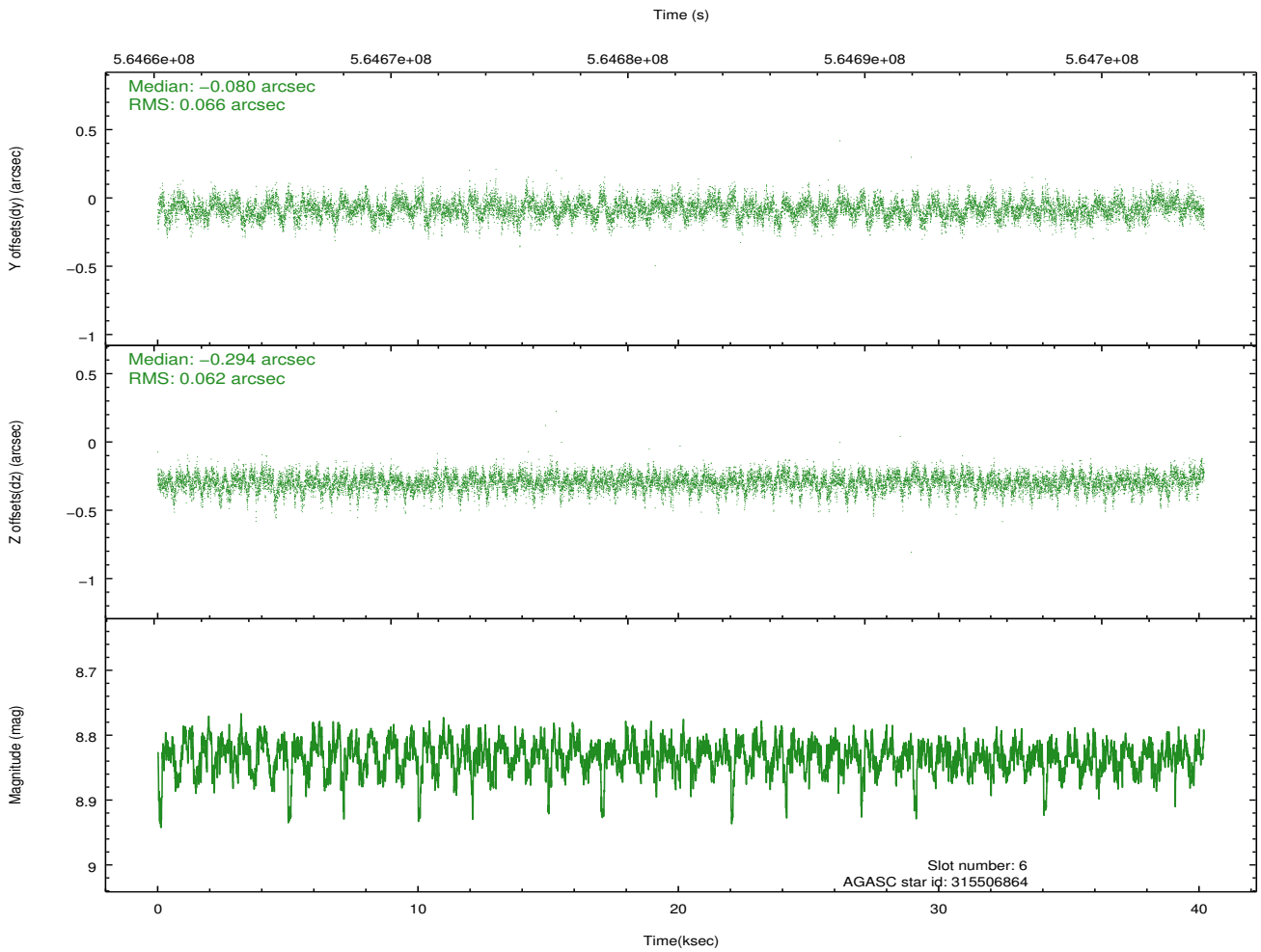
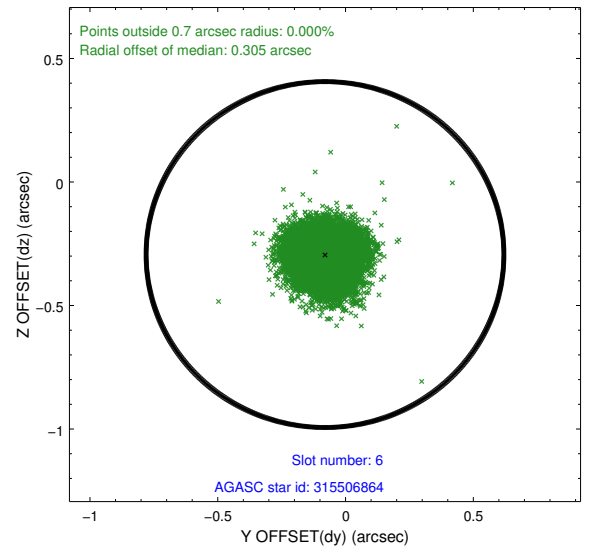
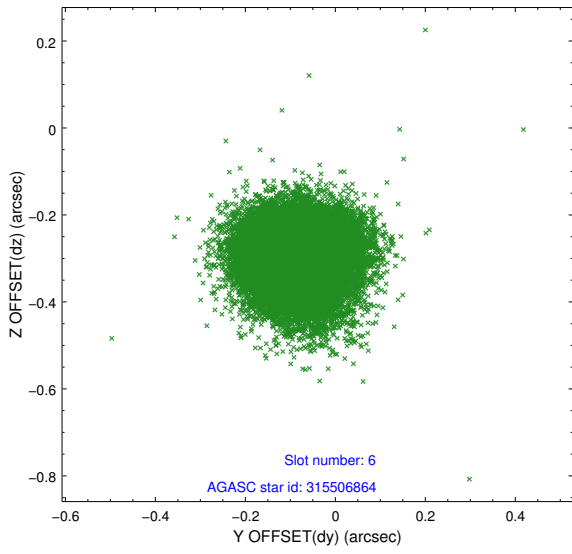
## 2.4.2 Slot 4



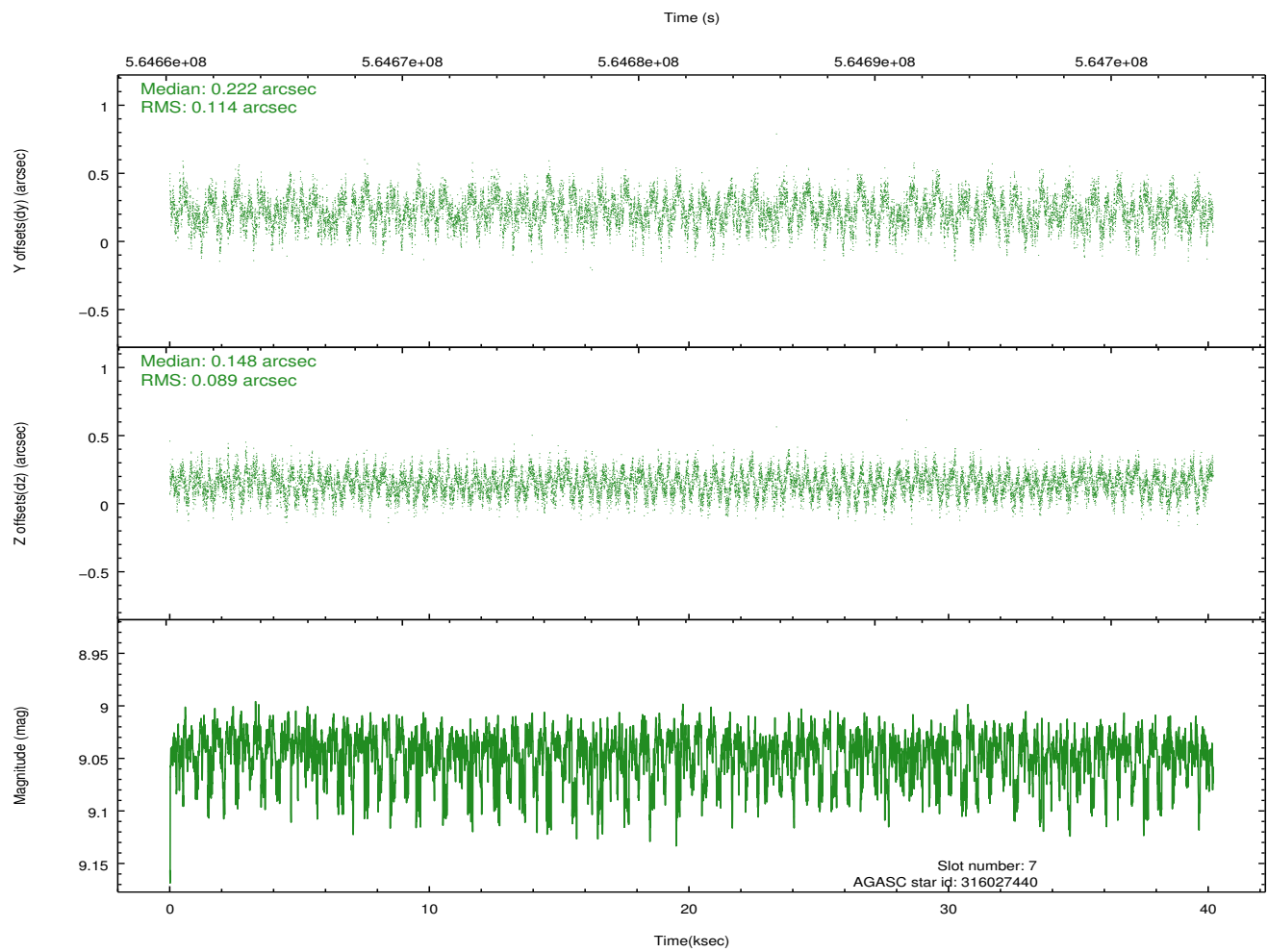
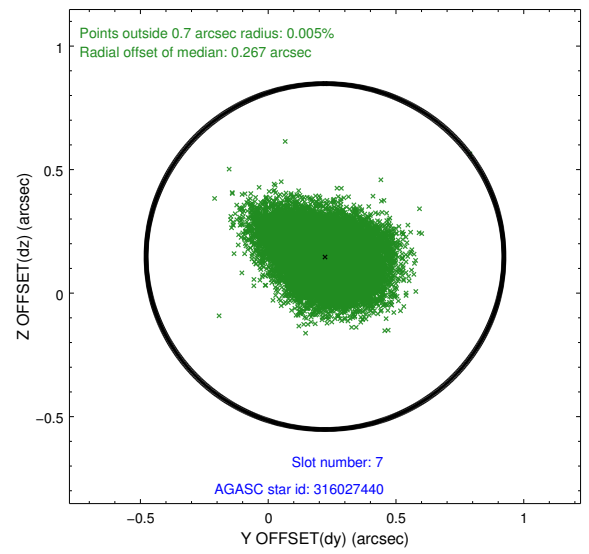
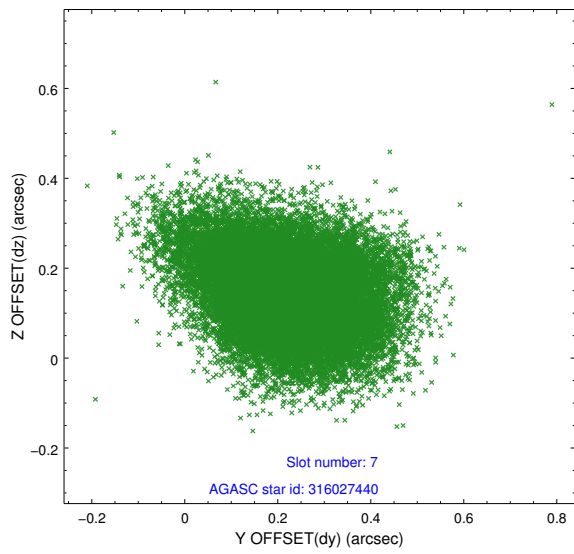
### 2.4.3 Slot 5



### 2.4.4 Slot 6

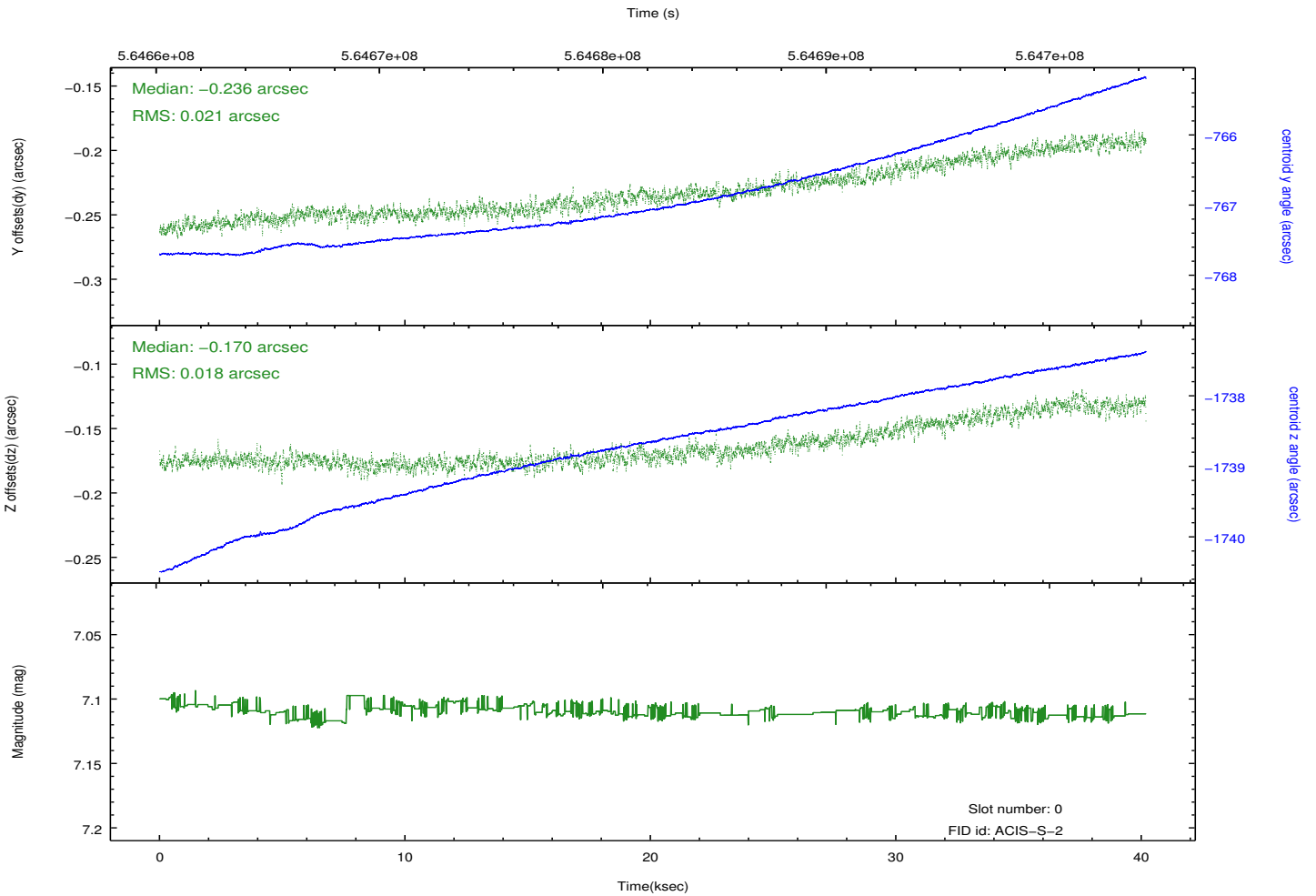
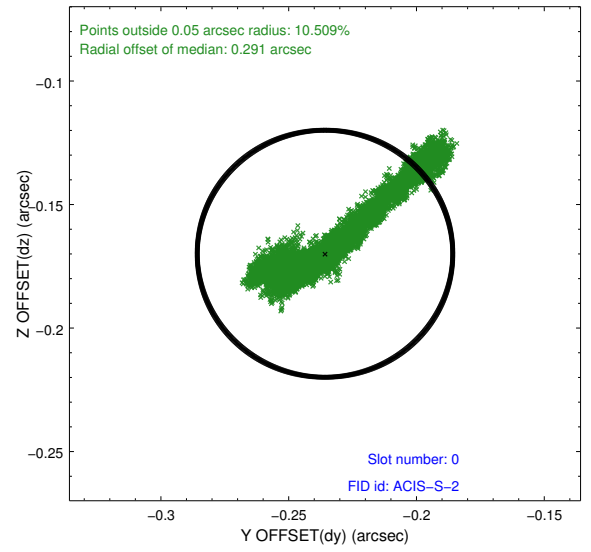
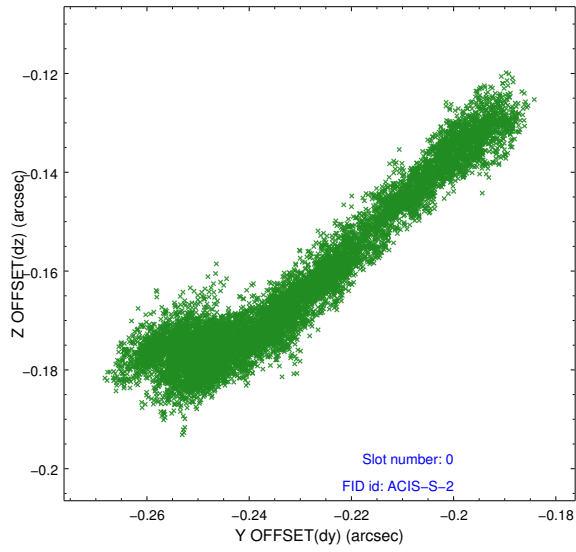


## 2.4.5 Slot 7

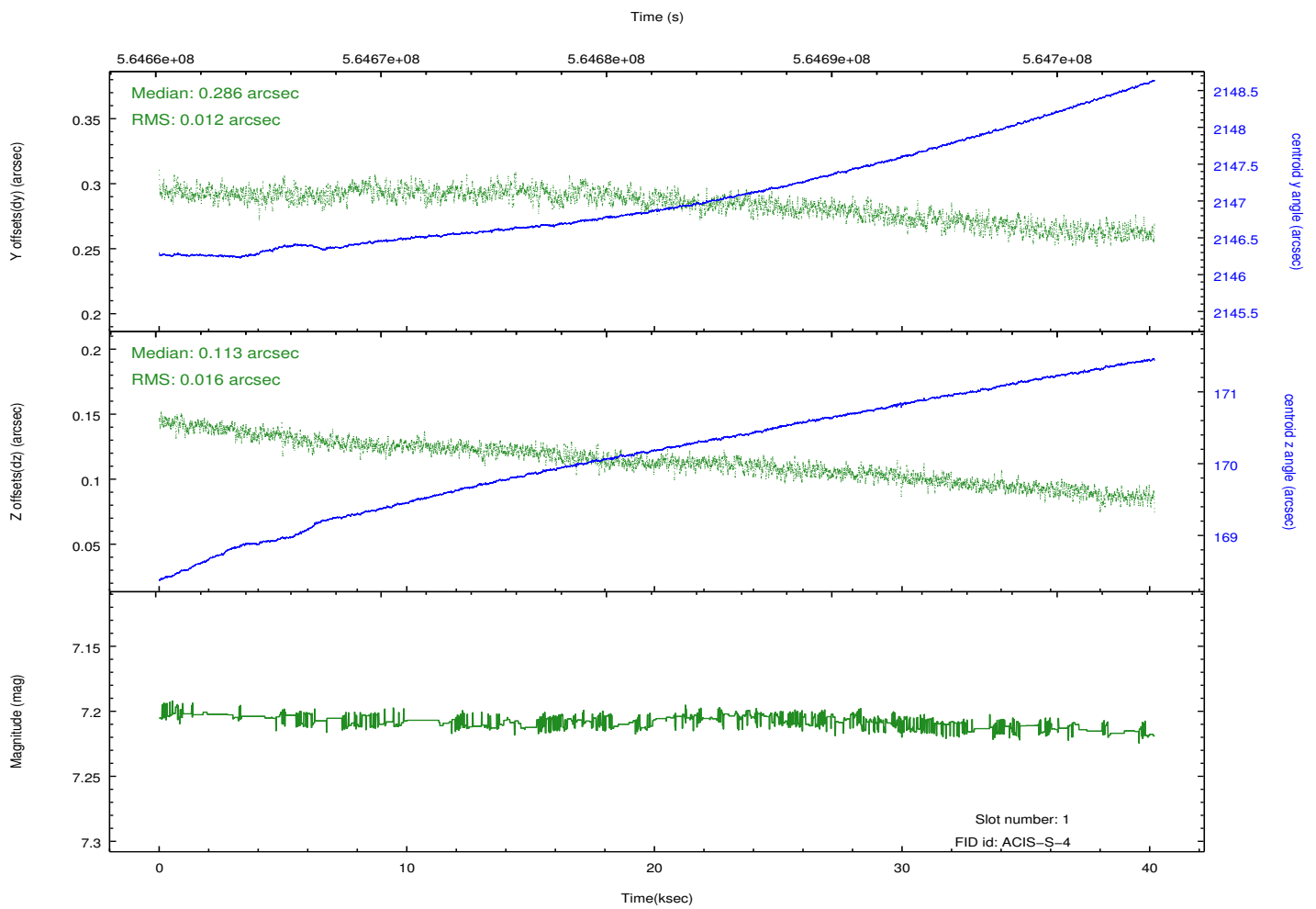
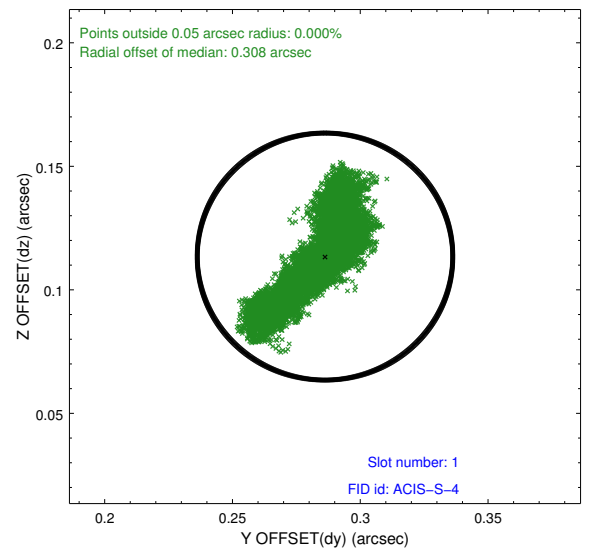
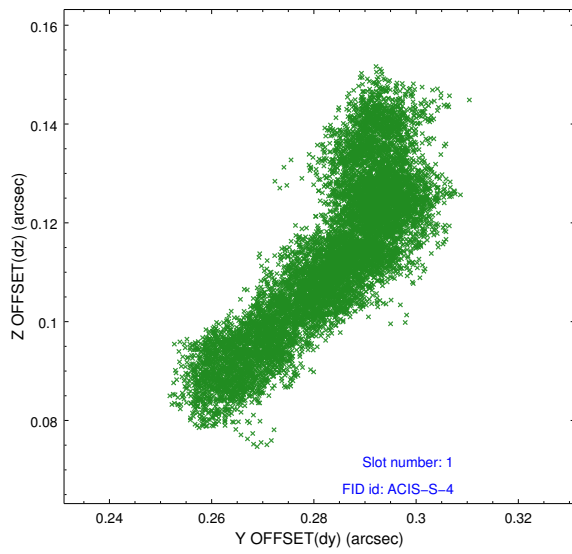


## 2.5 FID Slots

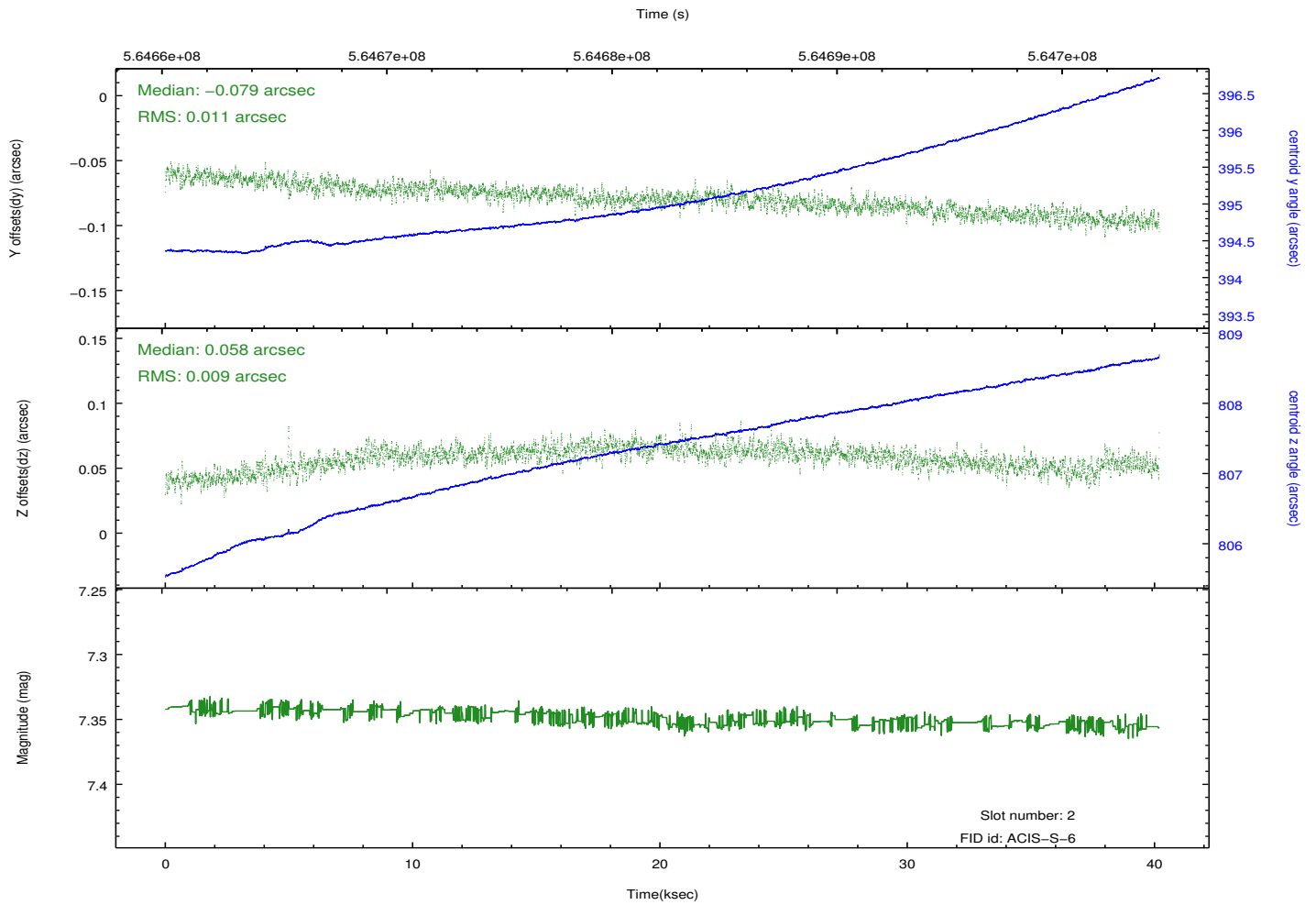
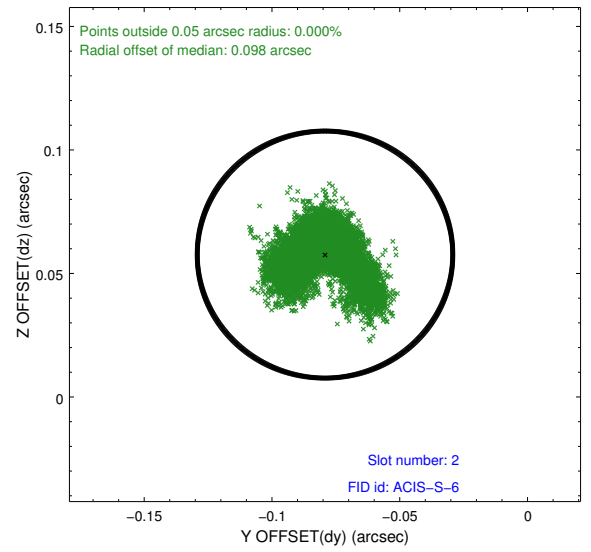
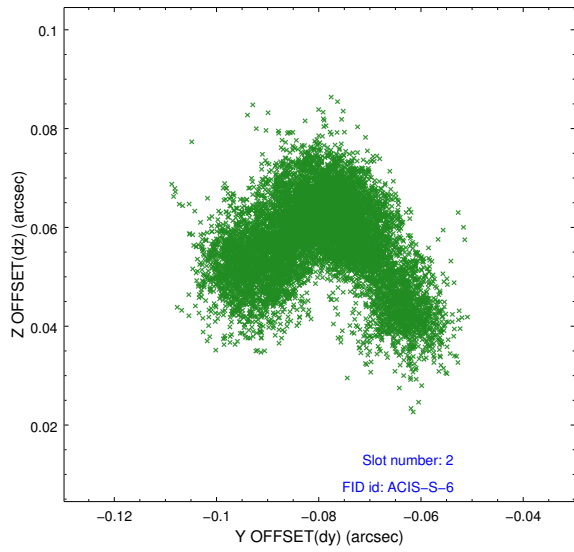
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2015.11.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.092

## A.2 Comments