

# V&V Reference Report

## L2 ASCDS Version : 10.5.4

Observation 20083 - L2 Version 1  
Chandra X-Ray Center

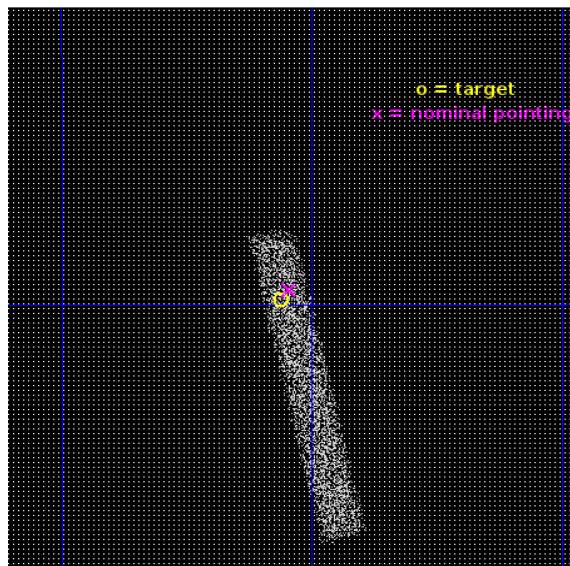
L2 Processing Date : May 25 2017

## 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

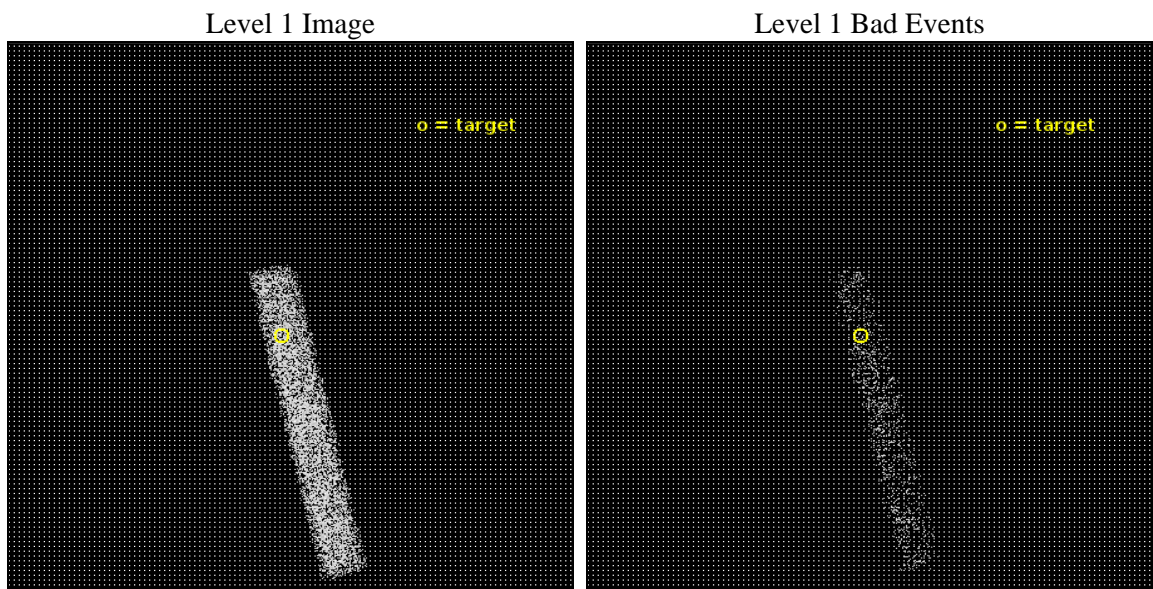
seq_num	401893	Sequence number
obs_id	20083	Observation id
title	Testing a BeX origin for	Proposal title
observer	Thomas Maccarone	Principal investigator
object	Swift J175233.6-290952	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	268.14	Observer's specified target RA [deg]
dec_targ	-29.164444	Observer's specified target Dec [deg]
ra_nom	268.13620810669	Nominal RA [deg]
dec_nom	-29.159842054275	Nominal Dec [deg]
roll_nom	76.93915504718	Nominal Roll [deg]
revision	1	Processing version of data
ontime	7678.7995421886	Sum of GTIs [s]
livetime	6964.2658644918	Livetime [s]
ontime7	7678.7995421886	Sum of GTIs [s]
l2events	4766	Number of level 2 events



## 2 OBI

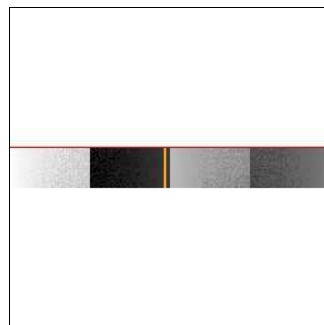
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7825.853000	[s] Scheduled observation exposure time
ascdsver	10.5.4	Processing system revision	ontime	7678.7995421886	Sum of GTIs [s]
caldsver	4.7.4	&#160	ontime7	7678.7995421886	Sum of GTIs [s]
date	2017-05-25T15:36:14	Date and time of file creation	l1events	9913	Number of level 1 events
revision	1	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	9913
rejected events	4949
rejected %	49%

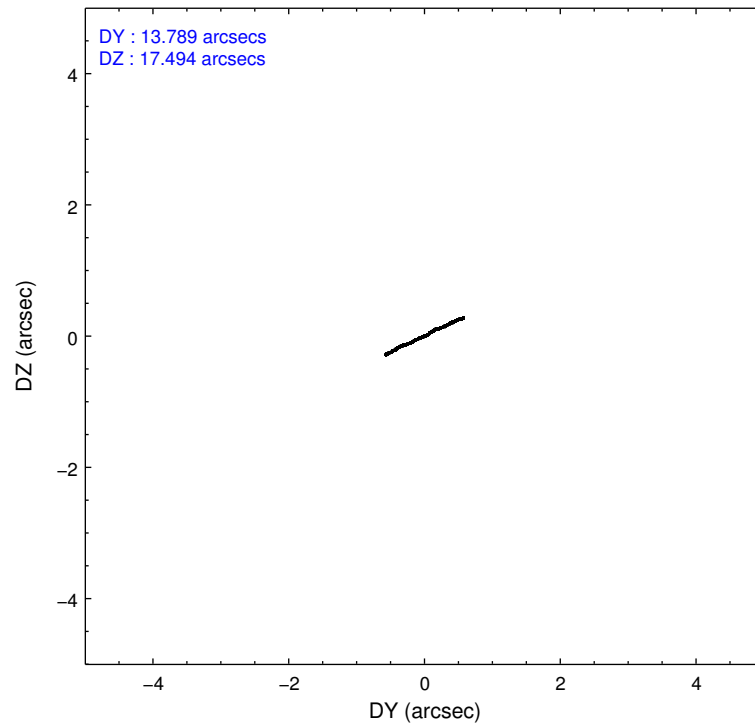
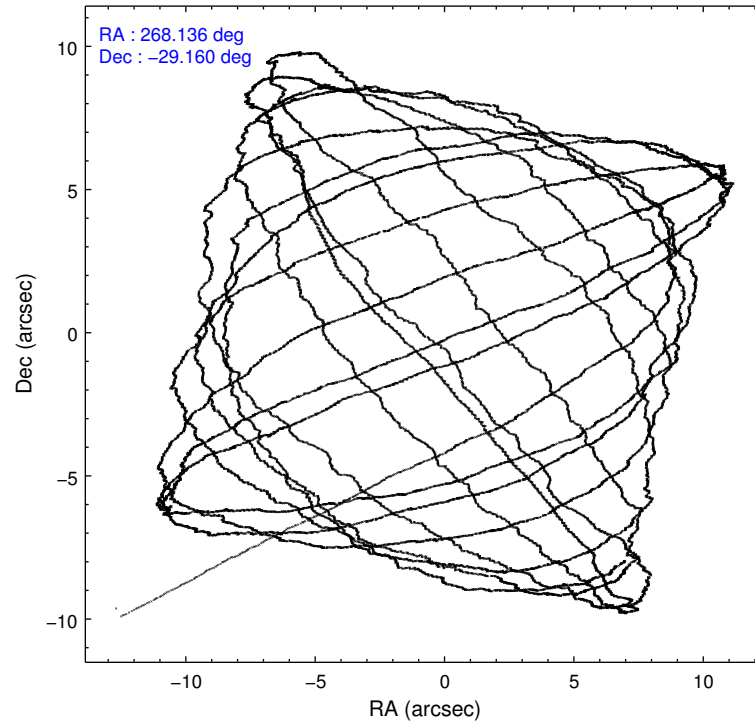
	<b>ccd 7</b>
grade 0 events	533
	5%
grade 1 events	16
	0%
grade 2 events	946
	9%
grade 3 events	649
	6%
grade 4 events	606
	6%
grade 5 events	959
	9%
grade 6 events	2230
	22%
grade 7 events	3974
	40%

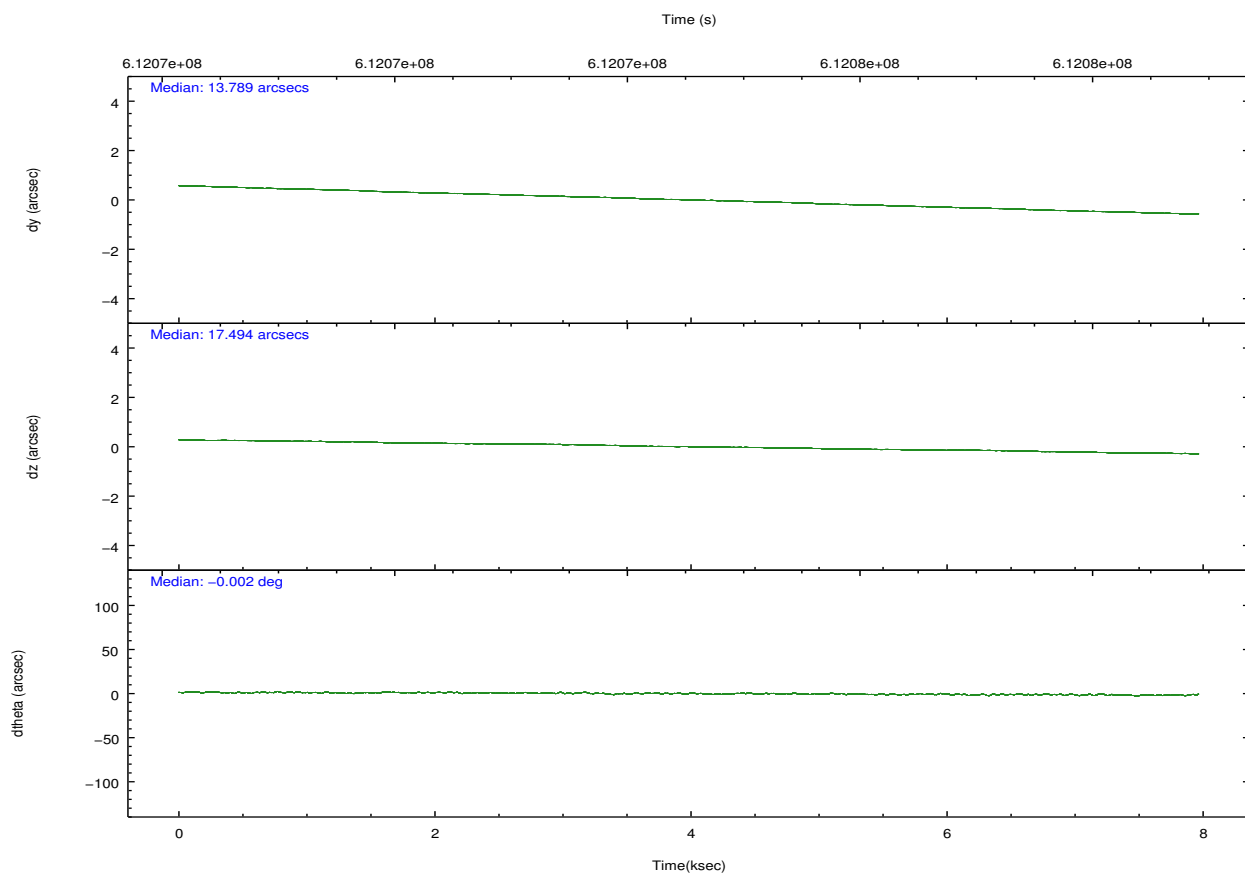
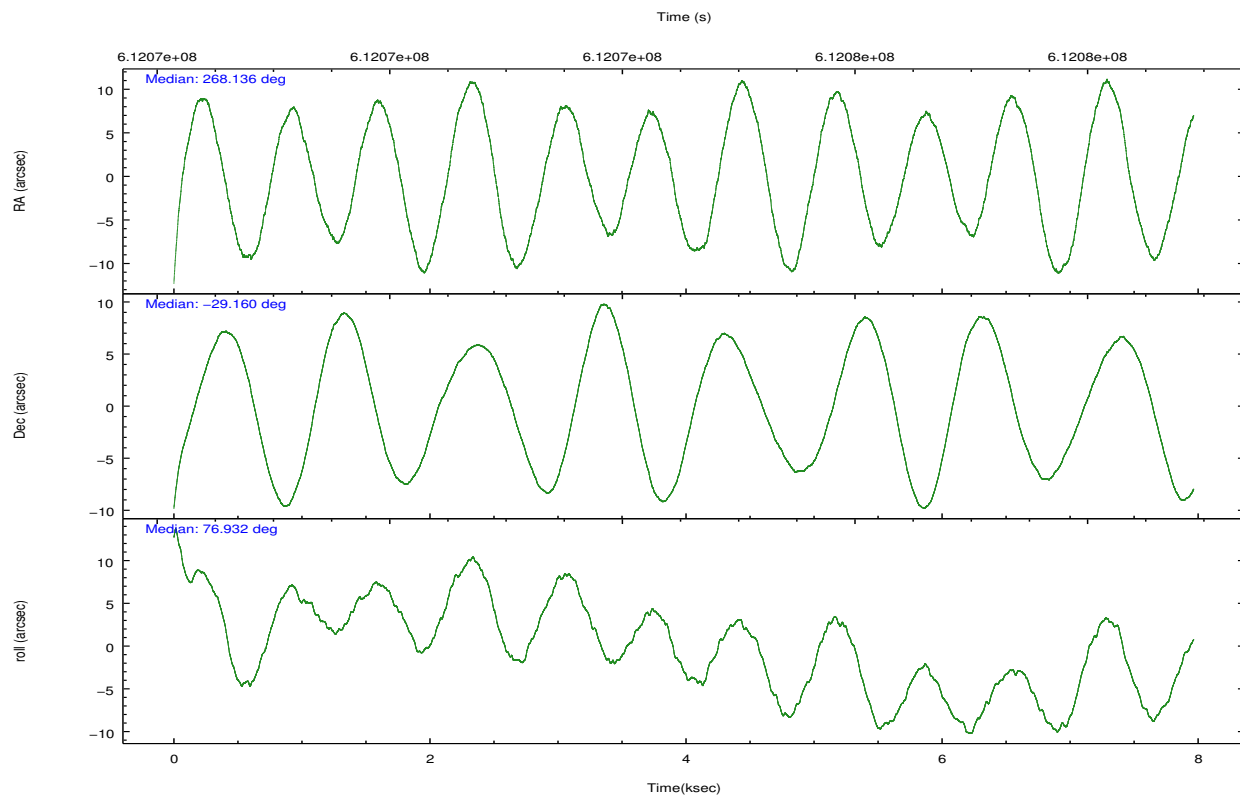


## 2.2 Compared Parameters

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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	268.145766	268.136208106686	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-29.185981	-29.15984205427515	Subarray start row	449	449
[deg] Pointing Roll	76.787159	76.93915504718038	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	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	612070660.184000	612069743.34835			
Observation start date	2017-05-25T03:36:31	2017-05-25T03:22:23			
[s] Observation end time (MET)	612078486.184000	612078702.36137			
Observation end date	2017-05-25T05:46:57	2017-05-25T05:51:42			
Read mode	TIMED	TIMED			

## 2.3 Aspect



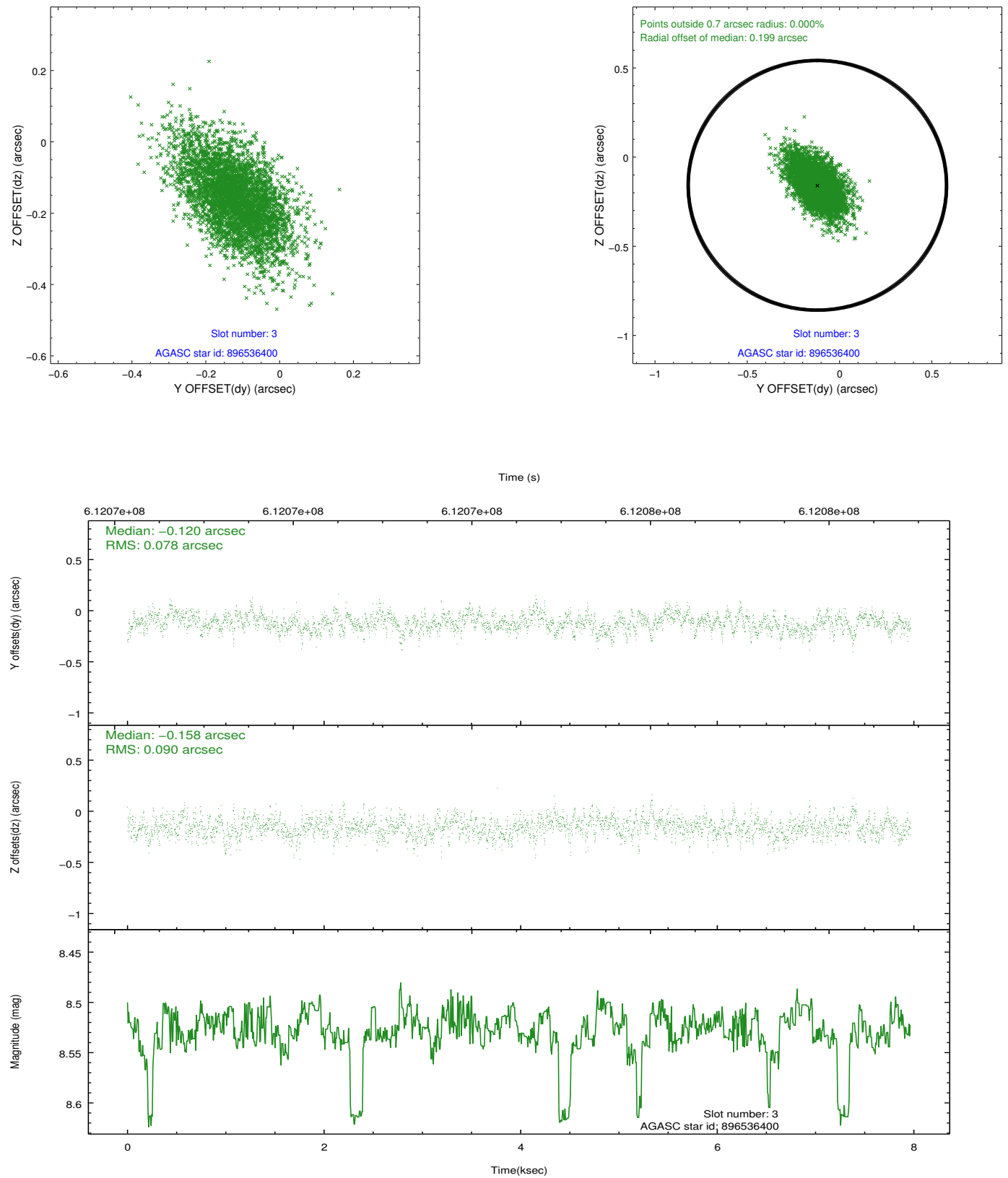


### Slot Statistics

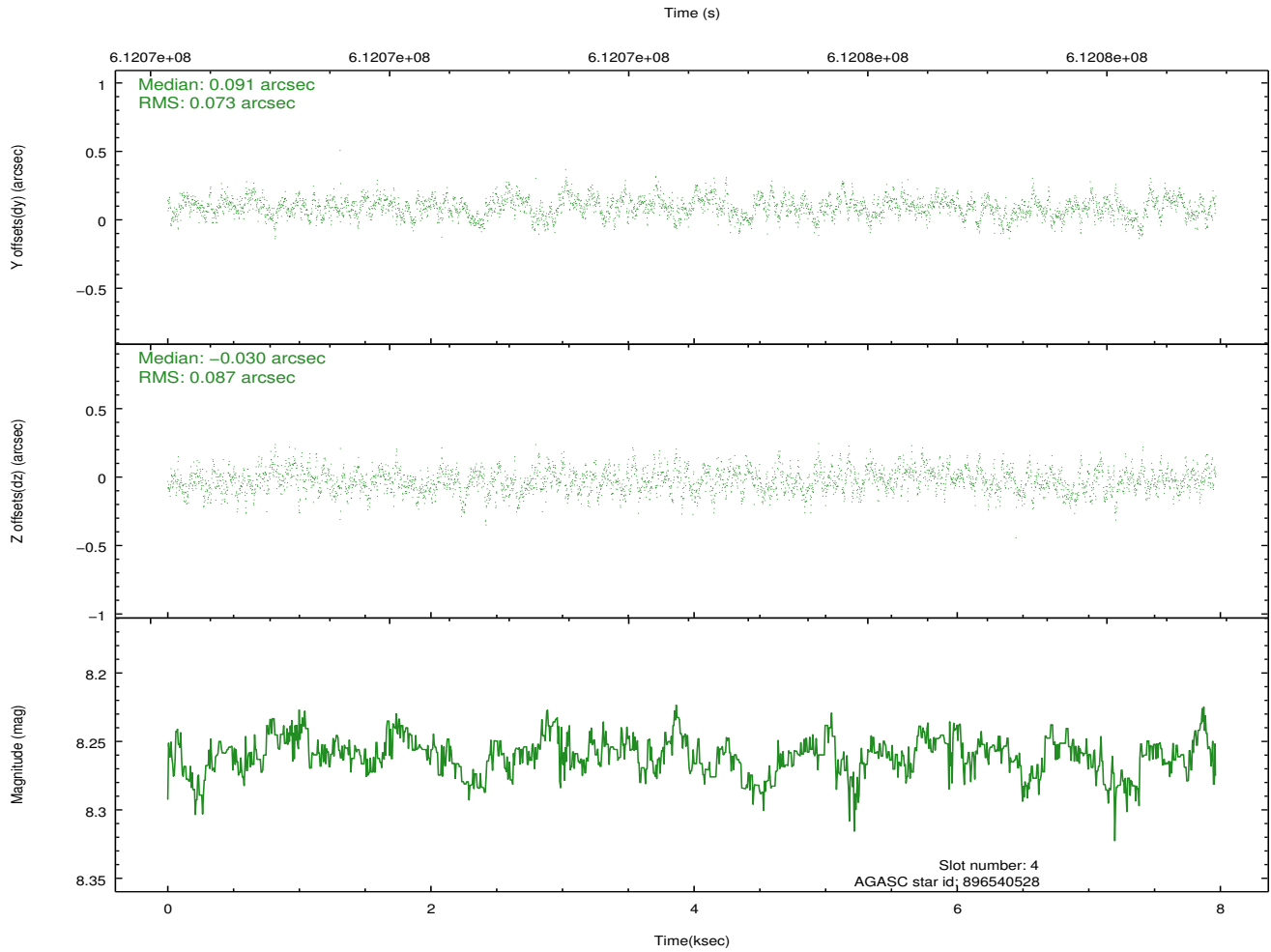
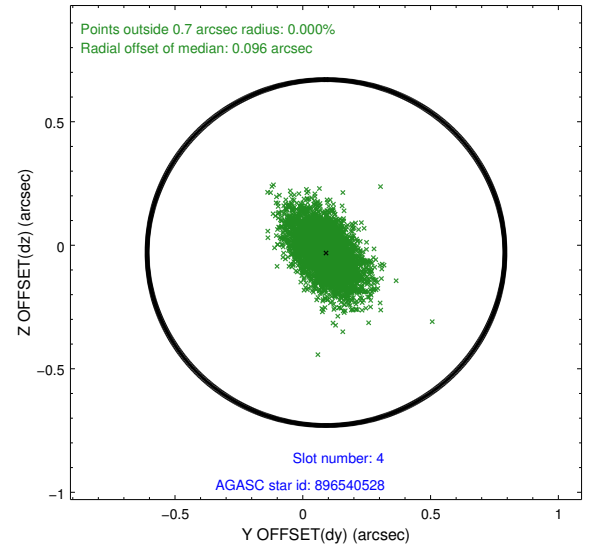
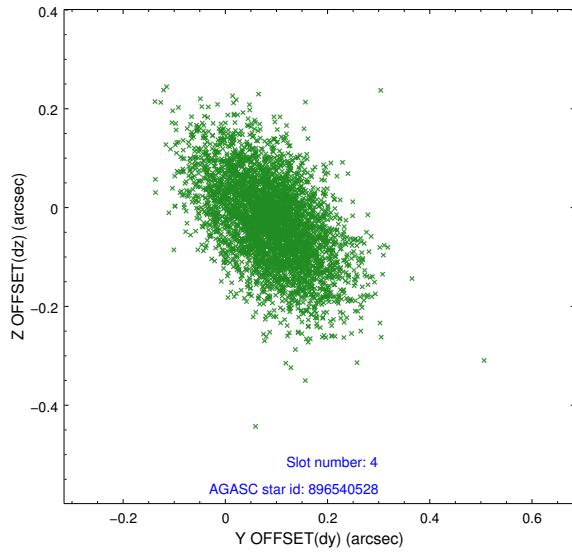
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.04	1943	-0.251	-0.146	0.015	0.025	0.000000	0.000000	-767.04	-1739.06
1	FID		ACIS-S-4	7.17	1943	0.299	0.148	0.016	0.024	0.000000	0.000000	2146.53	168.87
2	FID		ACIS-S-6	7.30	1943	-0.075	0.007	0.010	0.016	0.000000	0.000000	396.12	807.00
3	GUIDE	used	896536400	8.53	3882	-0.120	-0.158	0.123	0.216	267.359146	-29.438655	-1457.56	2190.78
4	GUIDE	used	896540528	8.26	3886	0.091	-0.030	0.118	0.203	267.368305	-29.314773	-1017.55	2267.62
5	GUIDE	used	898238128	7.71	3886	-0.311	0.065	0.111	0.190	268.450740	-28.688500	1962.16	-527.68
6	GUIDE	used	898243552	8.72	3886	0.314	-0.079	0.138	0.222	267.970066	-28.622317	1849.07	1004.31
7	GUIDE	used	898247688	8.62	3882	0.024	0.203	0.143	0.240	268.426687	-29.012154	811.13	-717.64

## 2.4 Star Slots

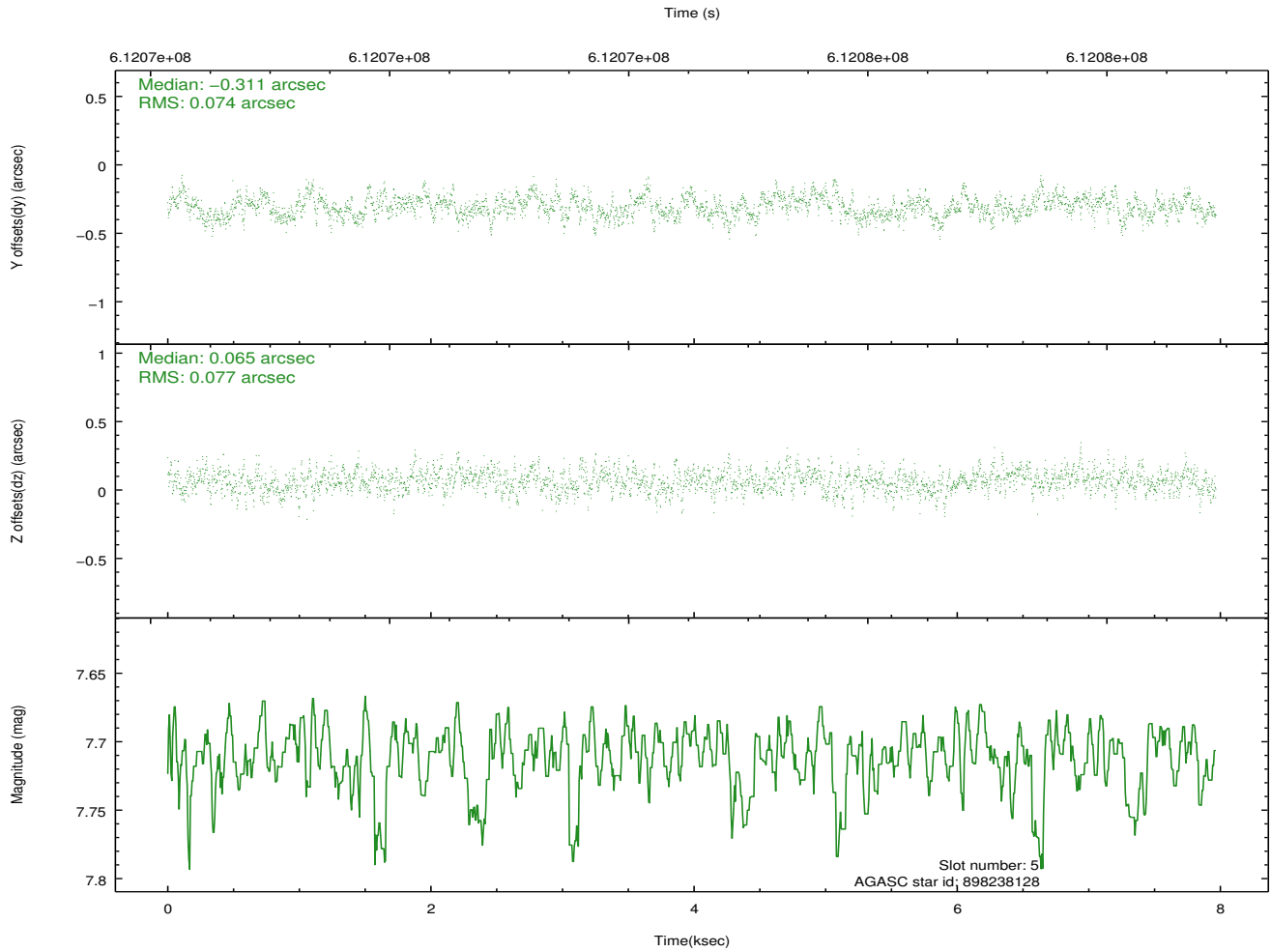
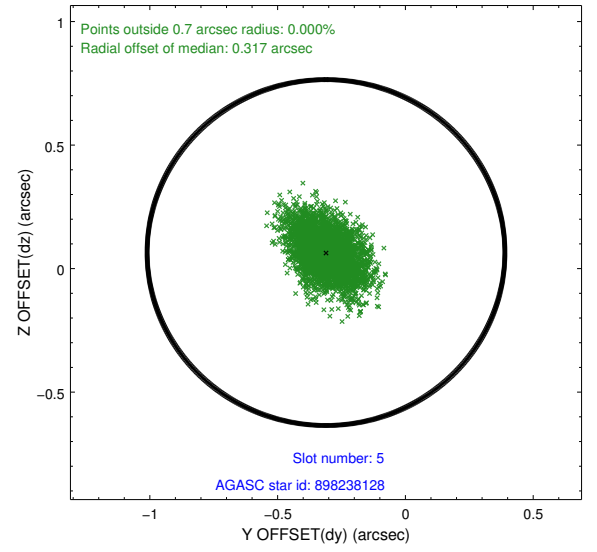
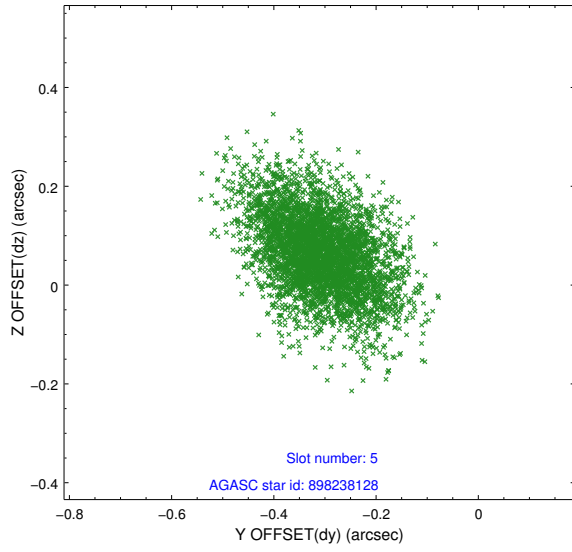
### 2.4.1 Slot 3



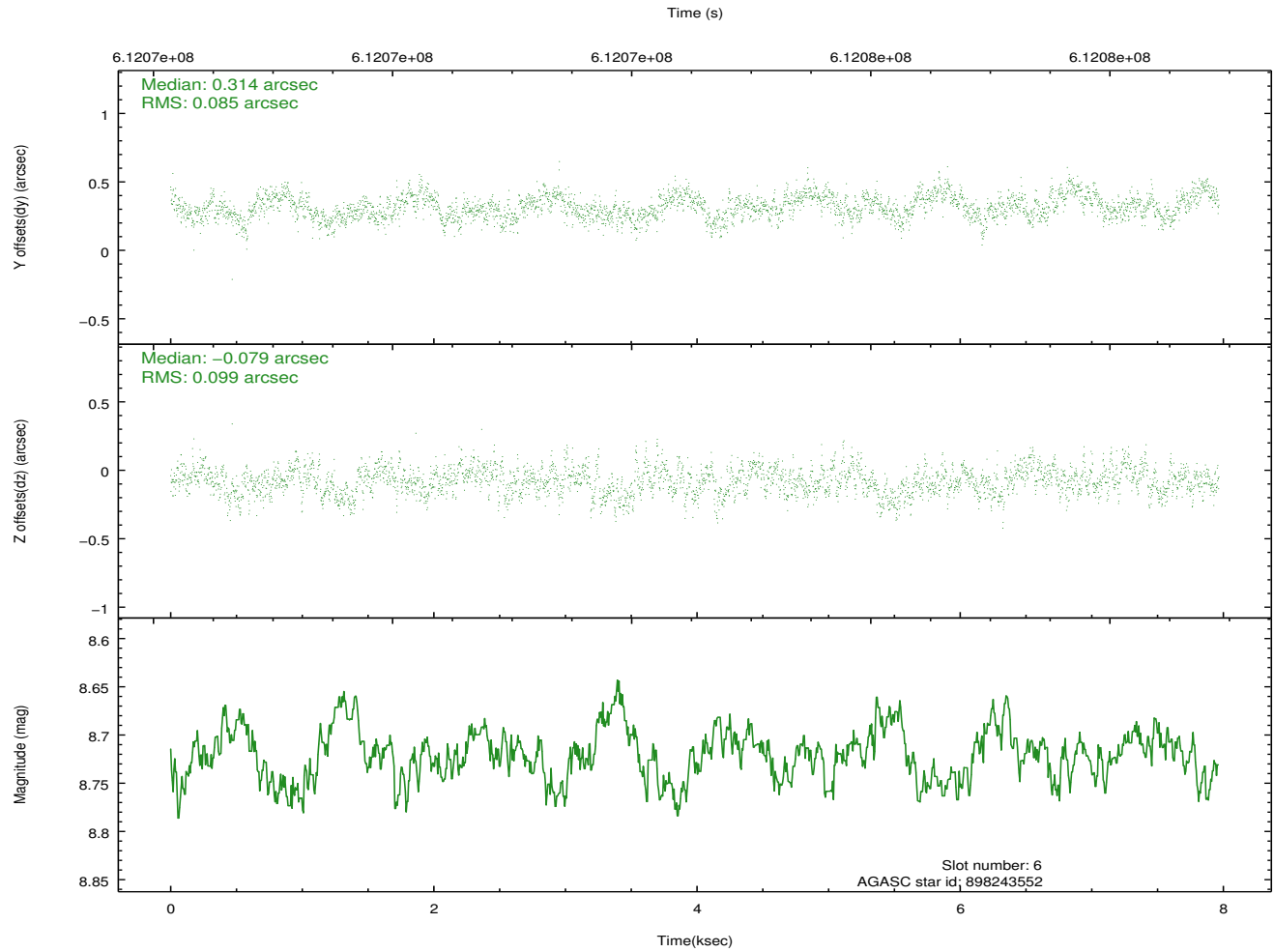
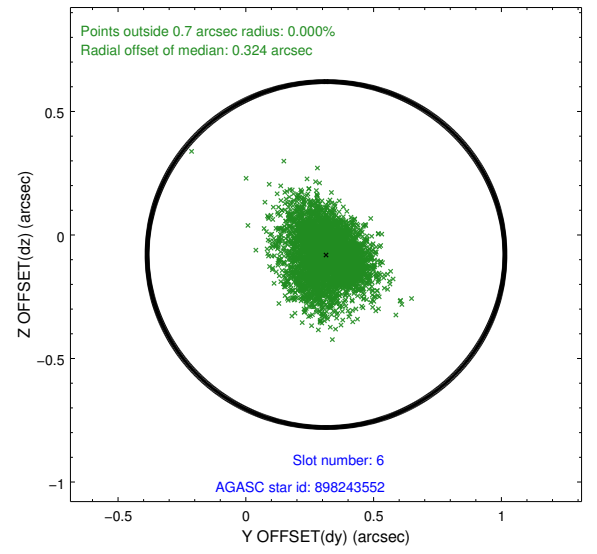
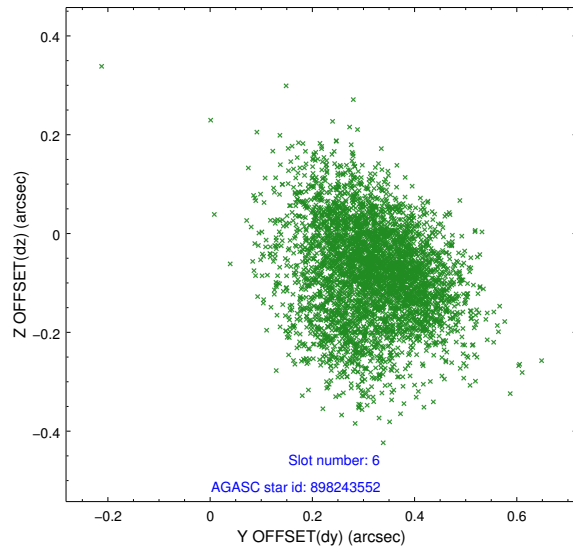
## 2.4.2 Slot 4



### 2.4.3 Slot 5

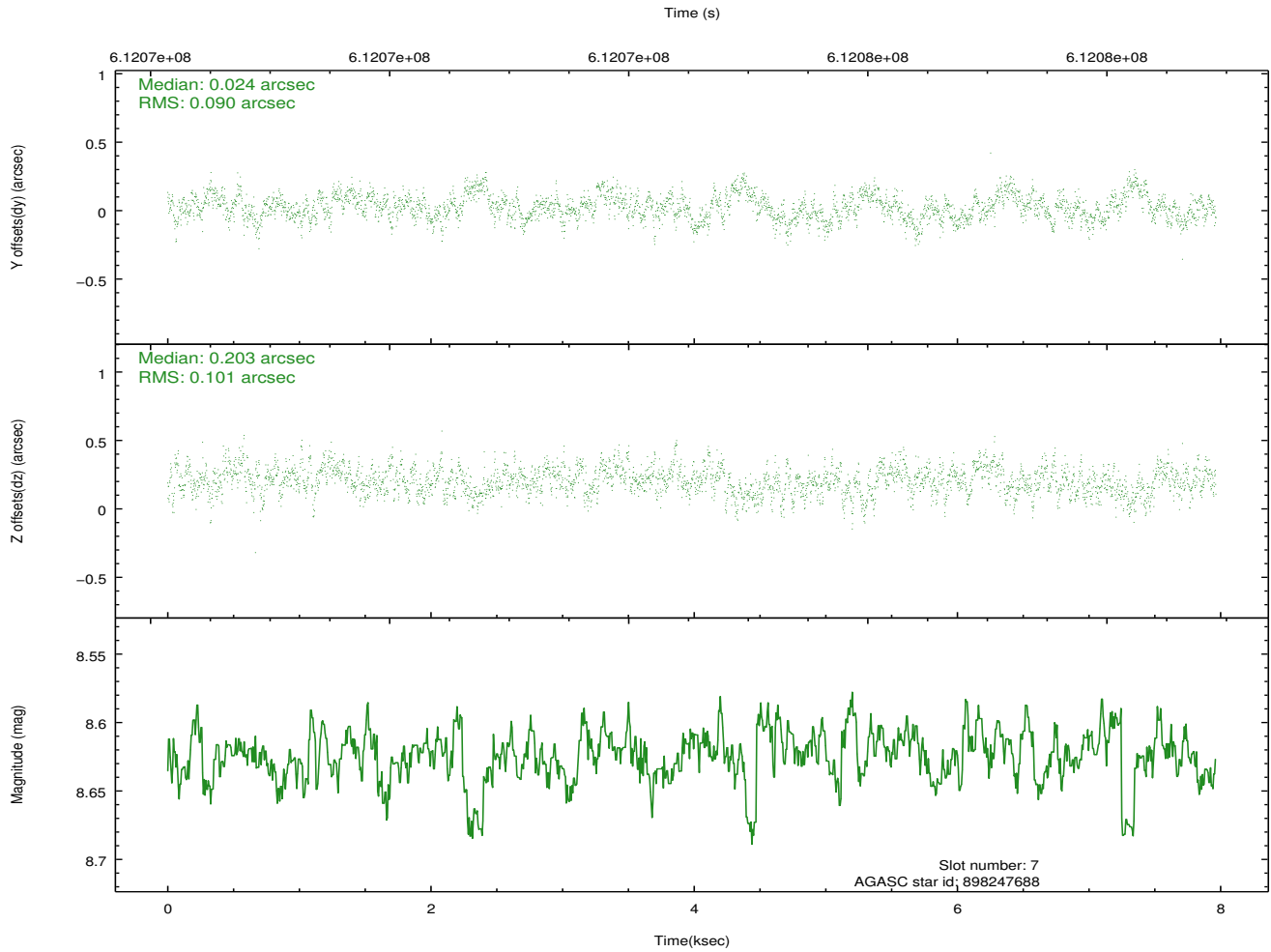
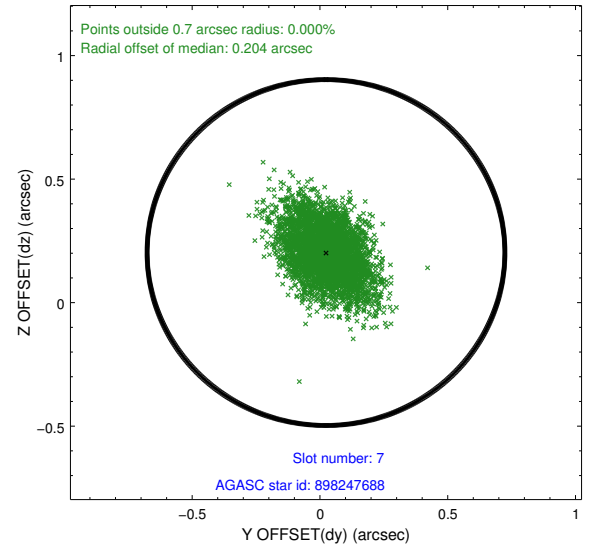
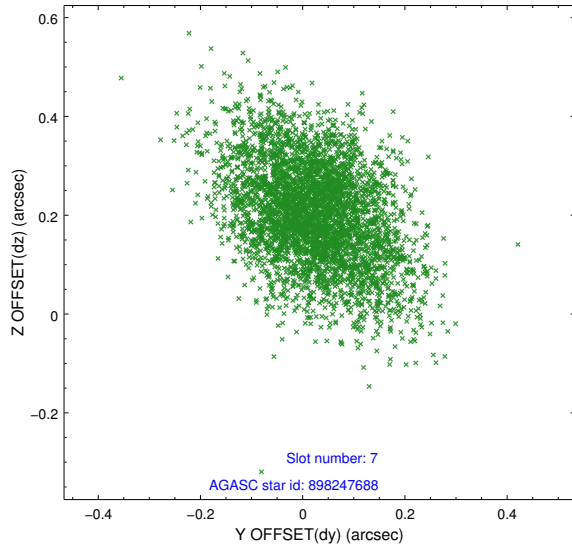


## 2.4.4 Slot 6



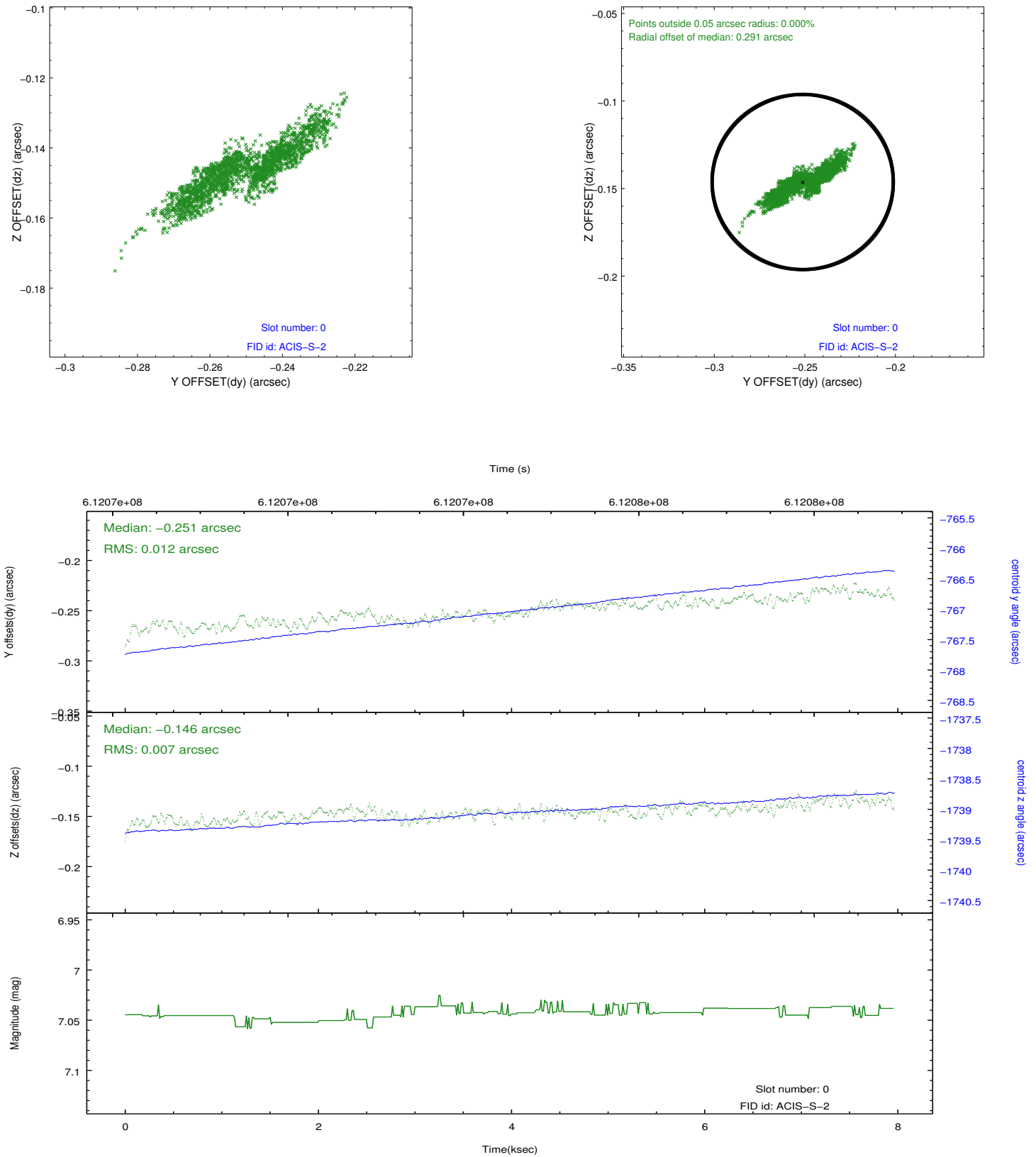


## 2.4.5 Slot 7

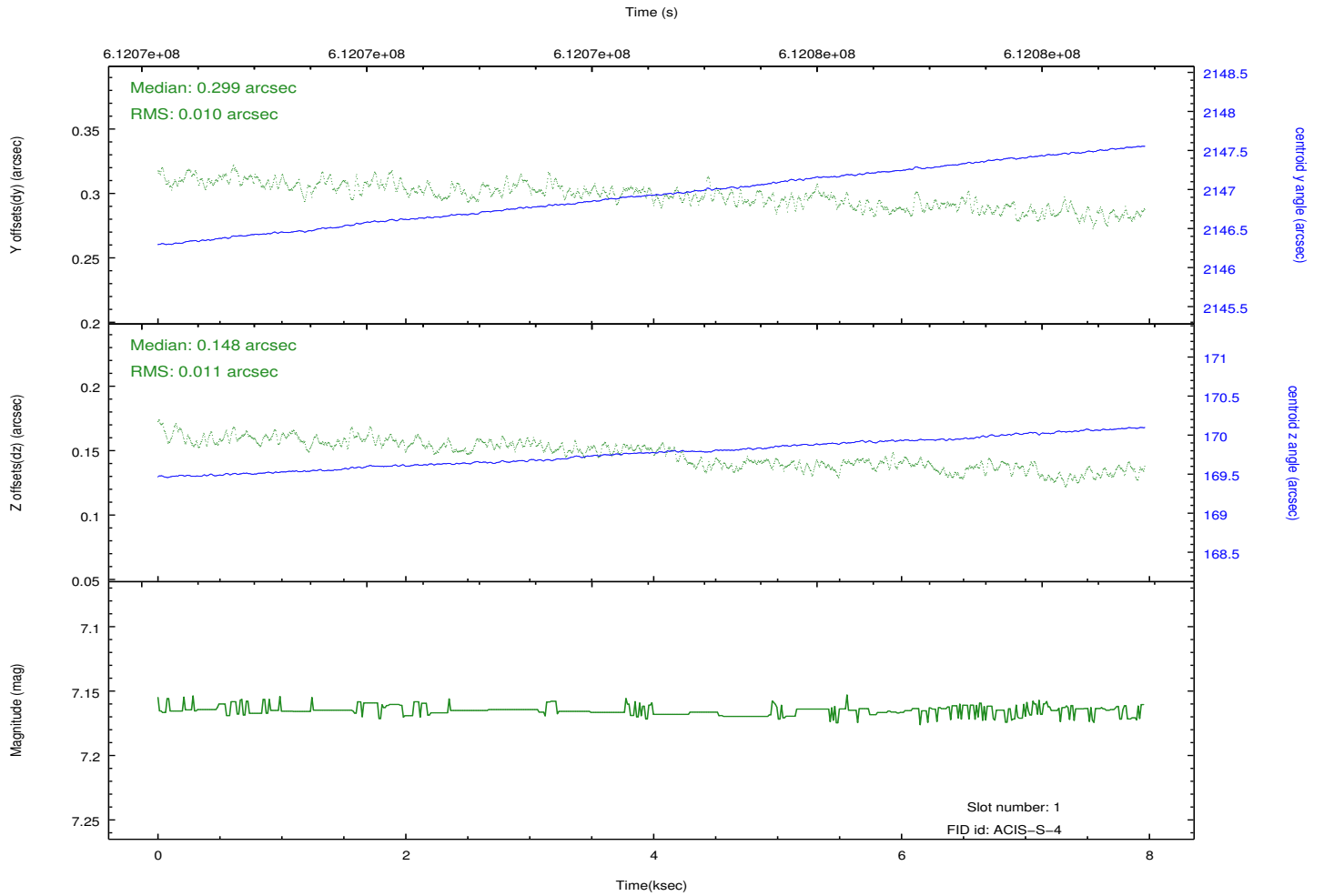
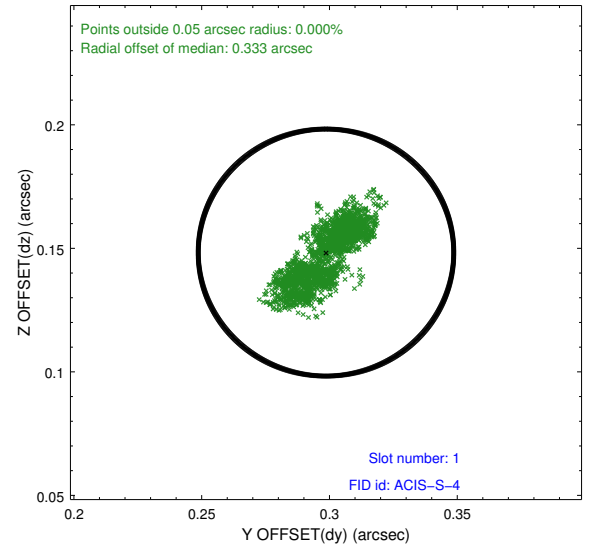
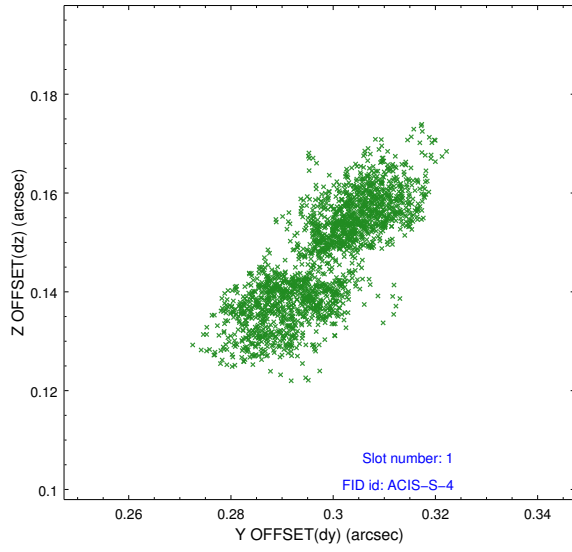


## 2.5 FID Slots

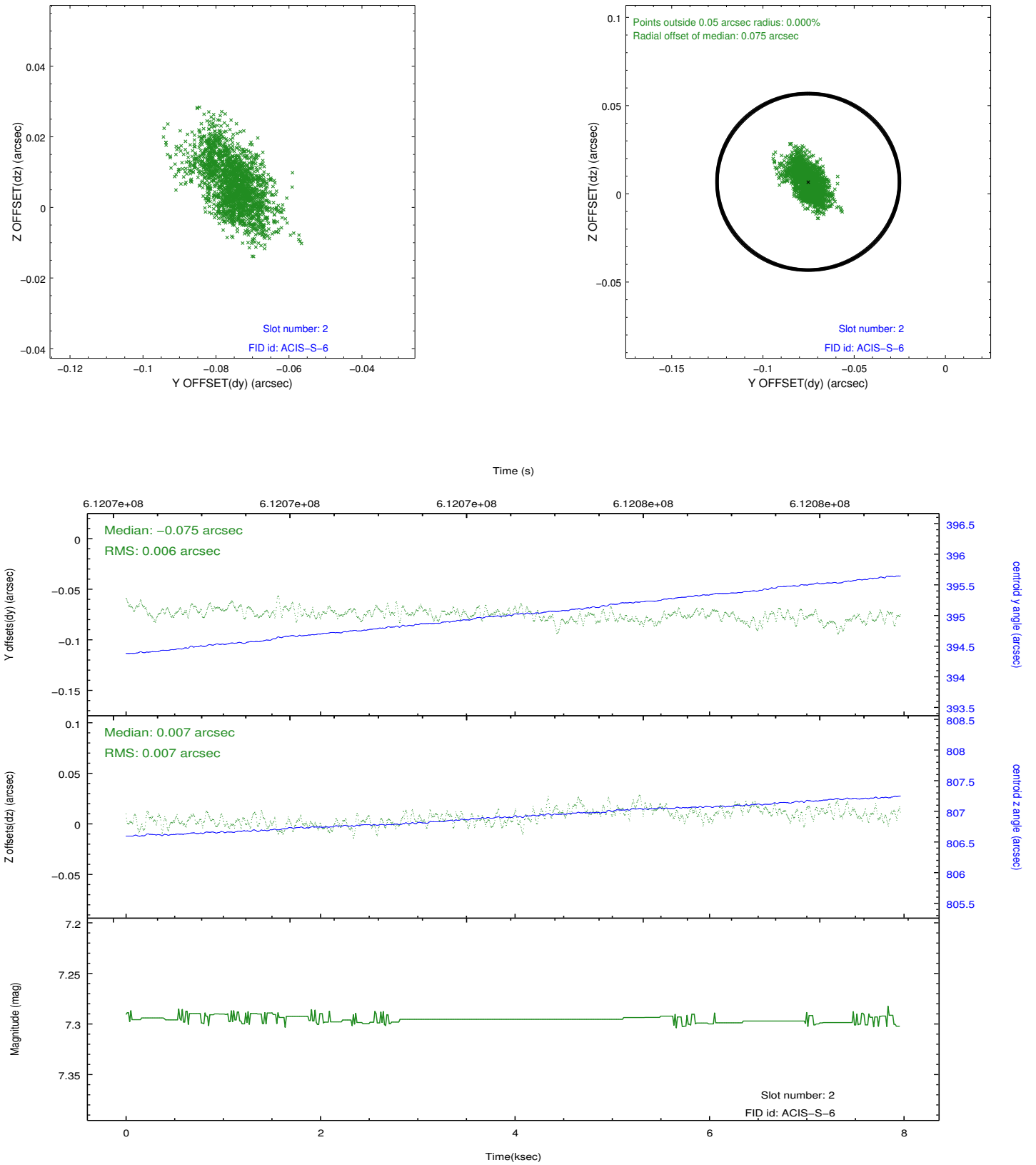
### 2.5.1 Slot 0



## 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)	2017.05.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.6787995421886

### A.2 Comments