

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 853 - L2 Version 4  
Chandra X-Ray Center

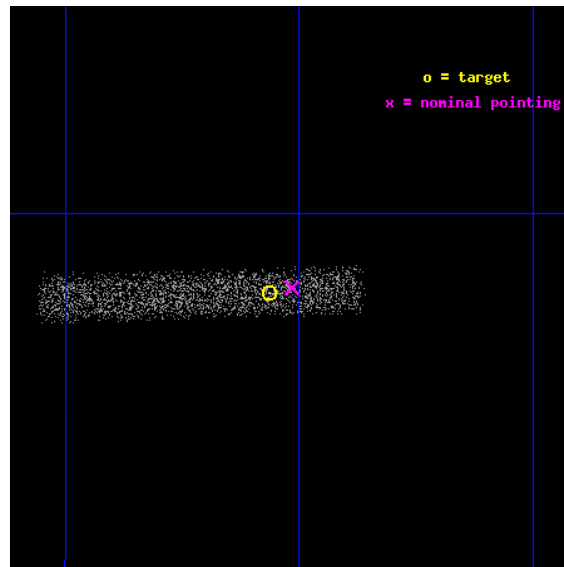
L2 Processing Date : Aug 27 2012

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# 1 Front

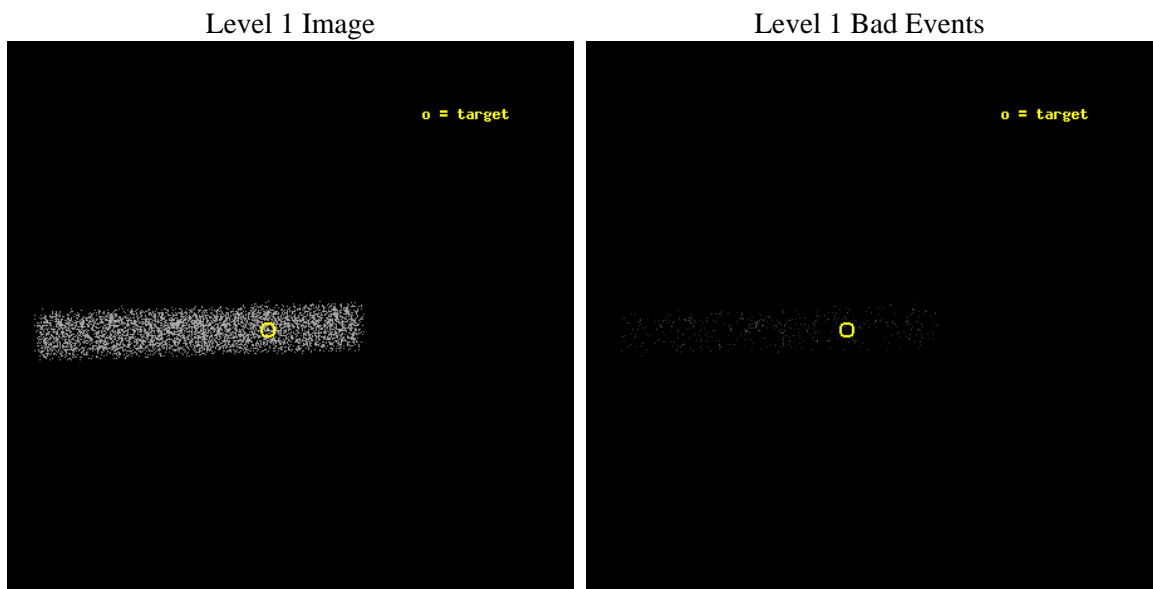
seq_num	700158	Sequence number
obs_id	853	Observation id
title	X-RAYS FROM RADIO-LOUD BROAD ABSORPTION LINE QSOS	Proposal title
observer	Prof. Michael Brotherton	Principal investigator
object	BAL 1556+3517	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	239.140833	Observer's specified target RA [deg]
dec_targ	35.299444	Observer's specified target Dec [deg]
ra_nom	239.12898316856	Nominal RA [deg]
dec_nom	35.301566037923	Nominal Dec [deg]
roll_nom	178.30845988424	Nominal Roll [deg]
revision	4	Processing version of data
ontime	5688.0000847578	Sum of GTIs [s]
livetime	5158.7158396135	Livetime [s]
ontime7	5688.0000847578	Sum of GTIs [s]
l2events	3072	Number of level 2 events



## 2 OBI

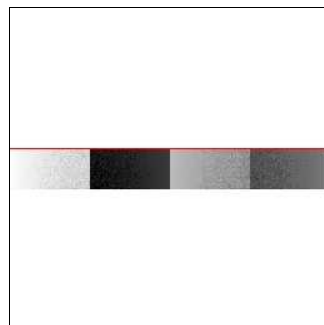
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	5270.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5688.0000847578	Sum of GTIs [s]
caldsver	4.5.1.1	&#160	ontime7	5688.0000847578	Sum of GTIs [s]
date	2012-08-27T19:39:53	Date and time of file creation	l1events	6563	Number of level 1 events
revision	4	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	6563
rejected events	3352
rejected %	51%

	<b>ccd 7</b>
grade 0 events	371
	5%
grade 1 events	8
	0%
grade 2 events	592
	9%
grade 3 events	434
	6%
grade 4 events	427
	6%
grade 5 events	568
	8%
grade 6 events	1520
	23%
grade 7 events	2643
	40%

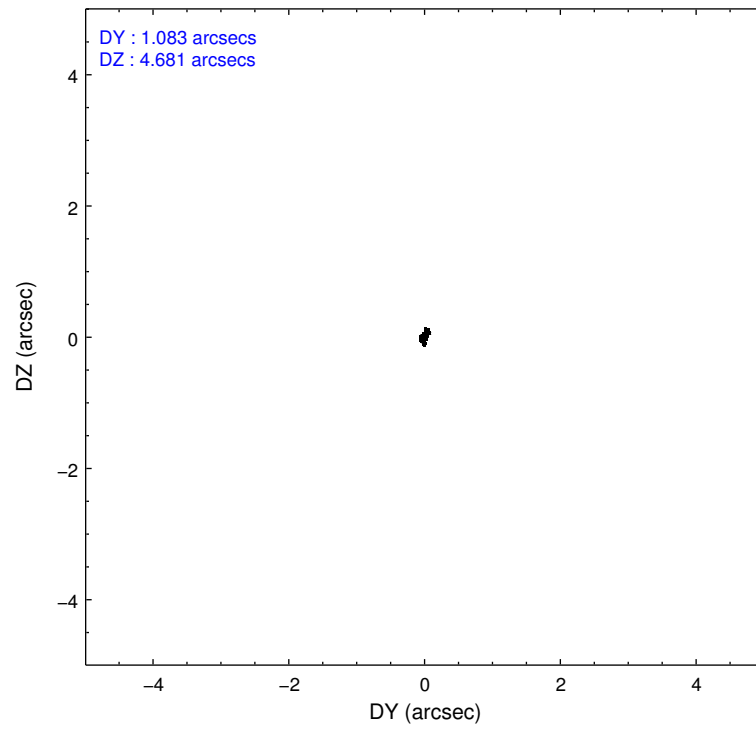
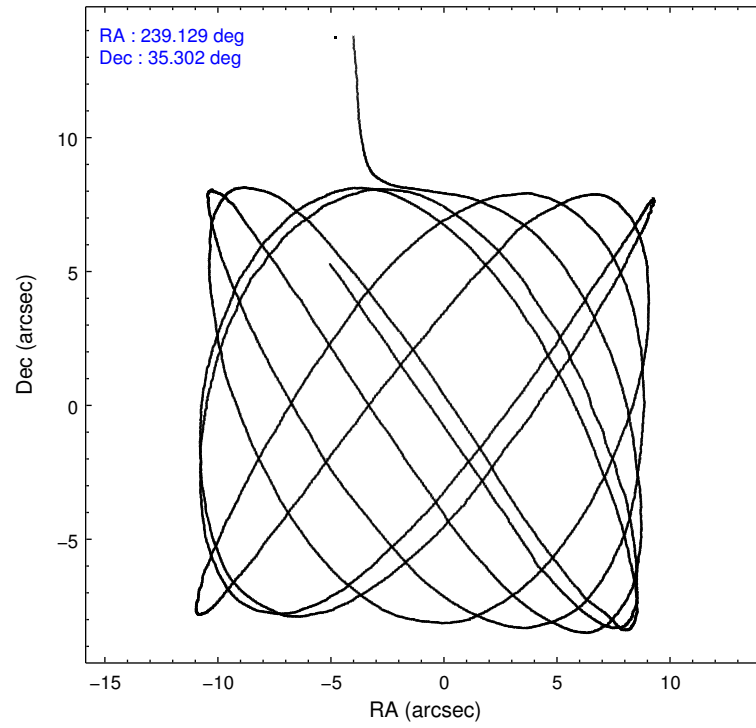


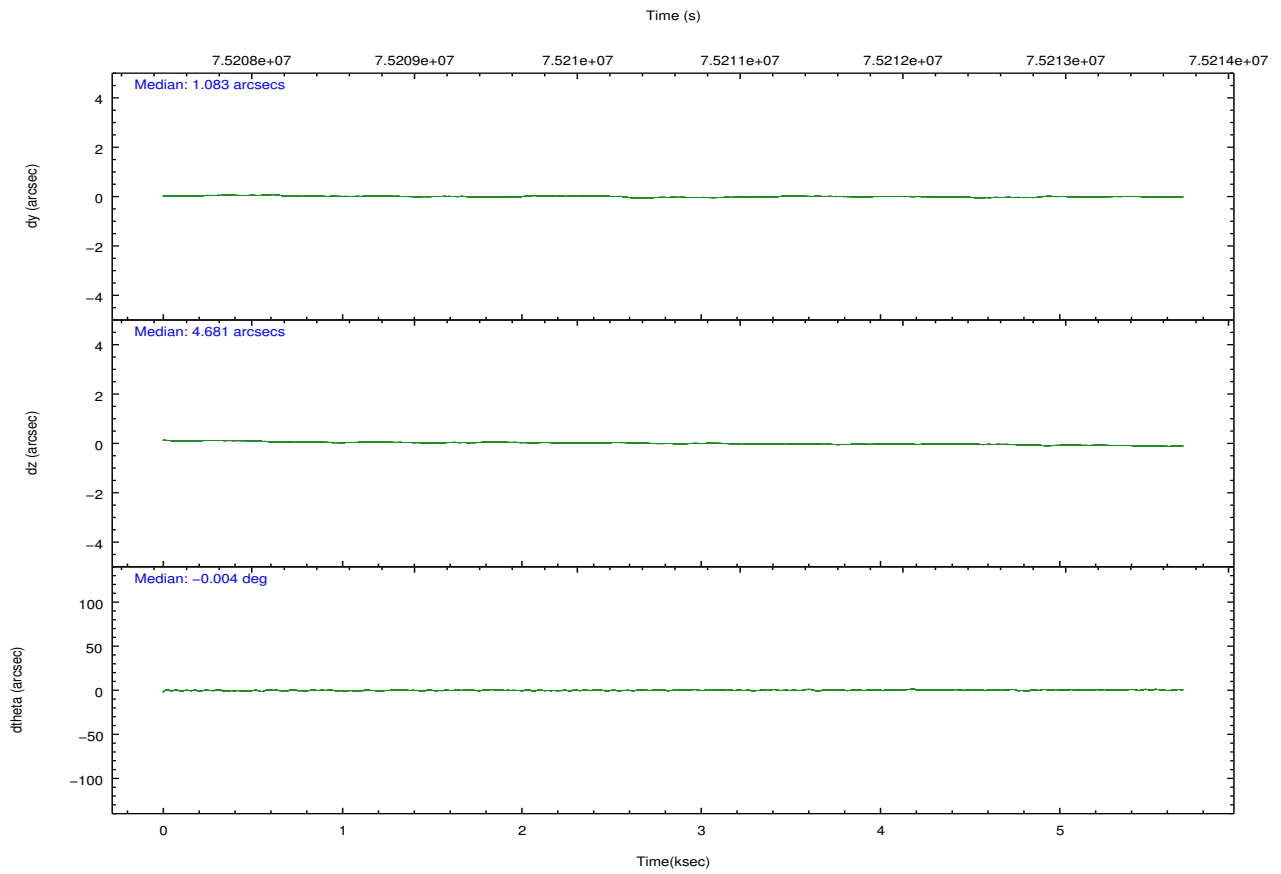
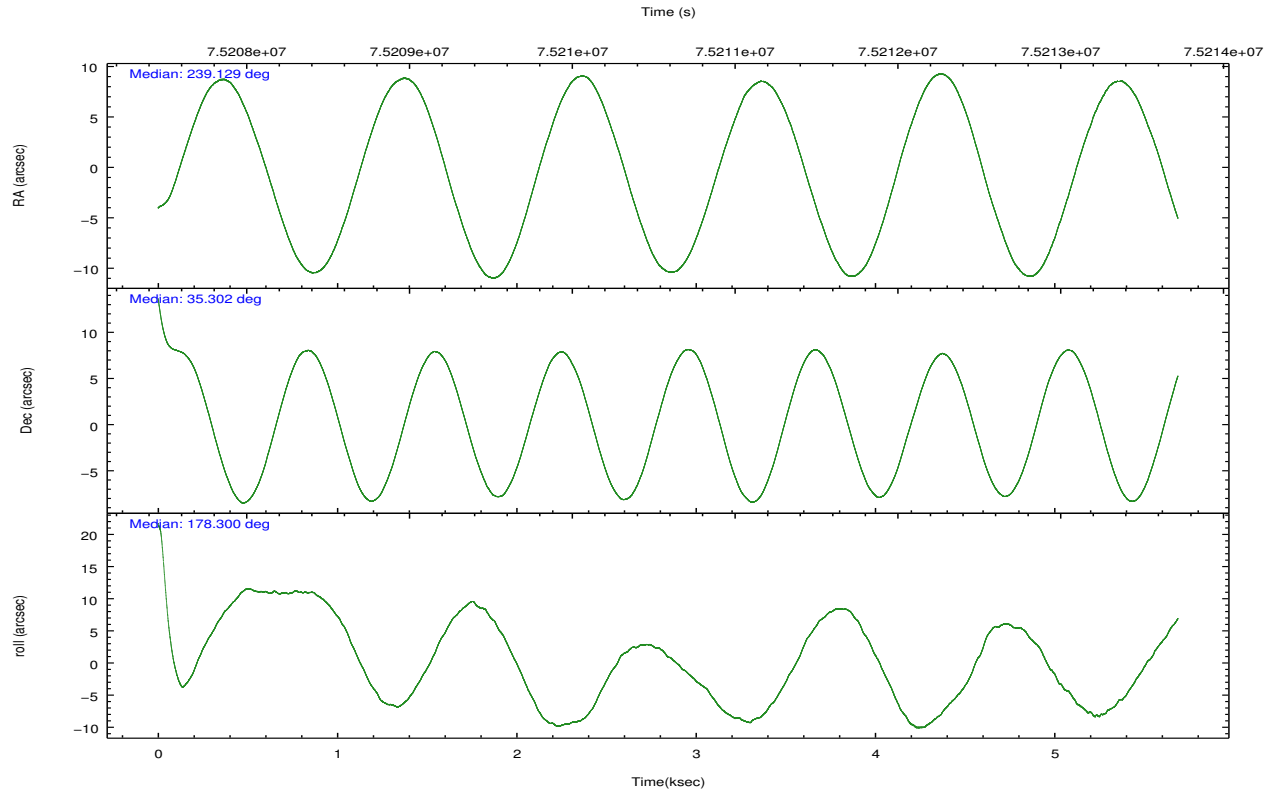
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-7	ACIS-7
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	239.158396	239.1289831685596
[deg] Pointing Dec	35.314649	35.30156603792299
[deg] Pointing Roll	178.134787	178.3084598842386
[s] Window start time (MET)	63072064.184000	63072064.184000
[s] Window stop time (MET)	84153664.184000	84153664.184000
[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)	75208161.184000	75207090.257572
Observation start date	2000-05-20T11:08:17	2000-05-20T10:51:30
[s] Observation end time (MET)	75213431.184000	75214089.470329
Observation end date	2000-05-20T12:36:07	2000-05-20T12:48:09
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
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	447	447
Subarray row count	128	128
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	0.4

## 2.3 Aspect



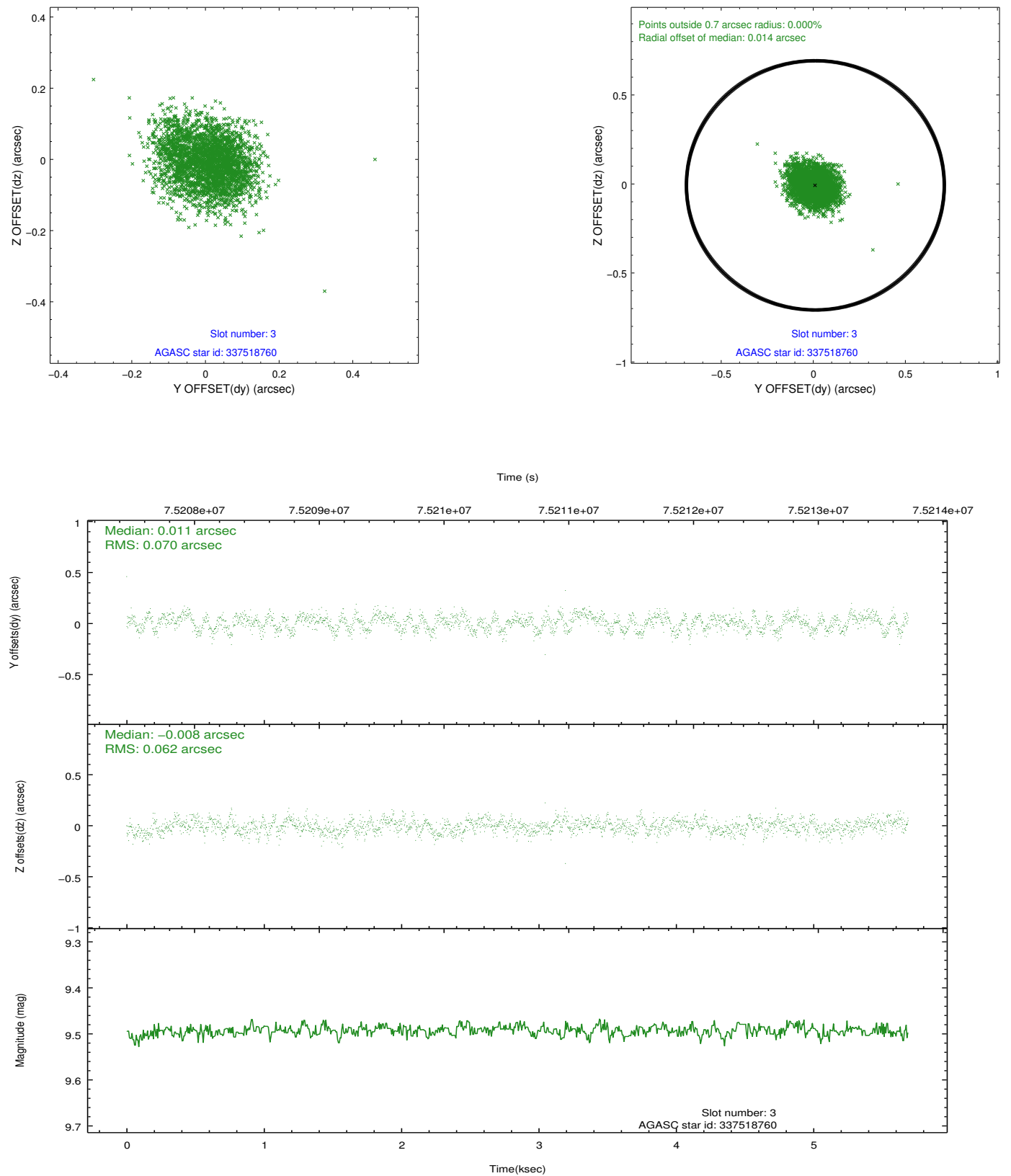


Slot Statistics

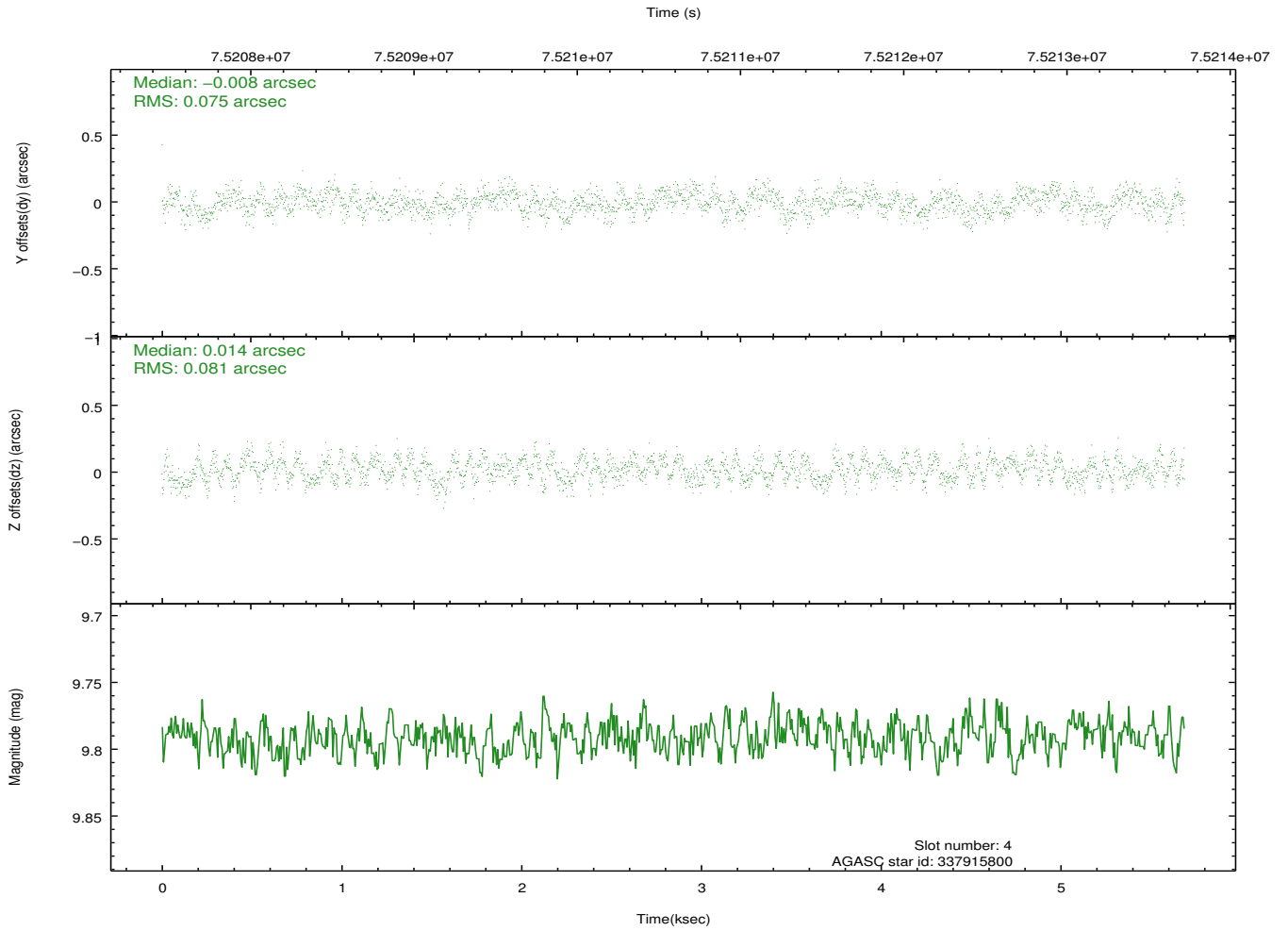
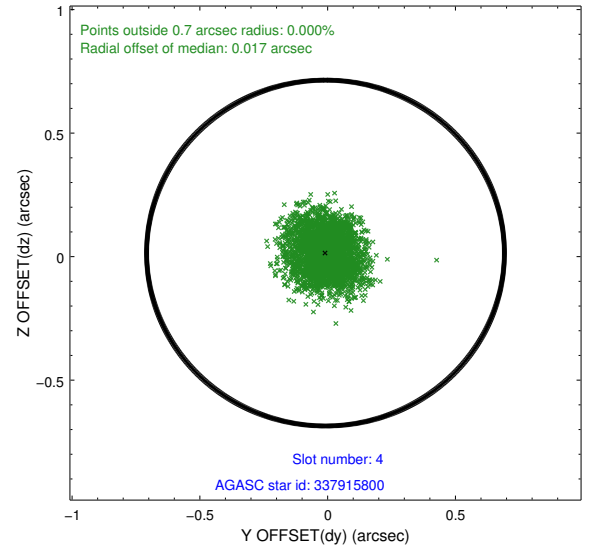
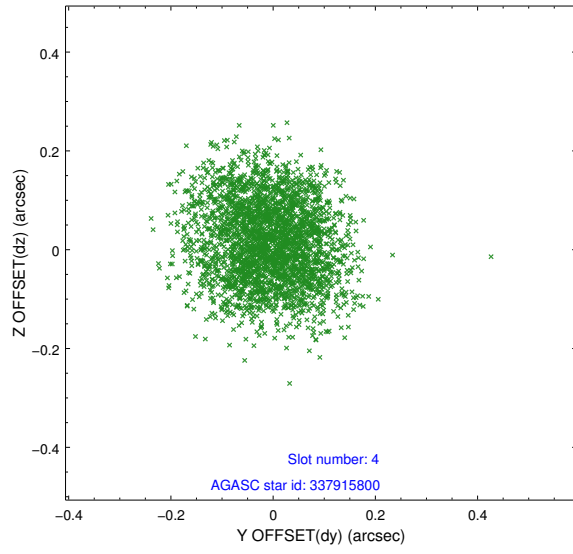
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1388	-0.029	-0.003	0.007	0.011	0.000000	0.000000	-753.70	-1725.79
1	FID	ACIS-S-4	7.21	1388	0.000	0.015	0.006	0.011	0.000000	0.000000	2159.13	181.63
2	FID	ACIS-S-5	7.23	1388	-0.002	-0.003	0.007	0.012	0.000000	0.000000	-1805.16	176.49
3	GUIDE	337518760	9.49	2772	0.011	-0.008	0.100	0.157	239.097692	34.771349	115.31	1960.71
4	GUIDE	337915800	9.79	2775	-0.008	0.014	0.120	0.185	238.456559	35.774976	2103.12	-1595.82
5	GUIDE	337912984	10.02	2773	-0.024	0.002	0.107	0.178	239.054181	35.590155	337.93	-981.99
6	GUIDE	337911408	10.12	2772	0.022	-0.006	0.168	0.269	238.336922	35.751602	2450.52	-1504.09
7	UNUSED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00

## 2.4 Star Slots

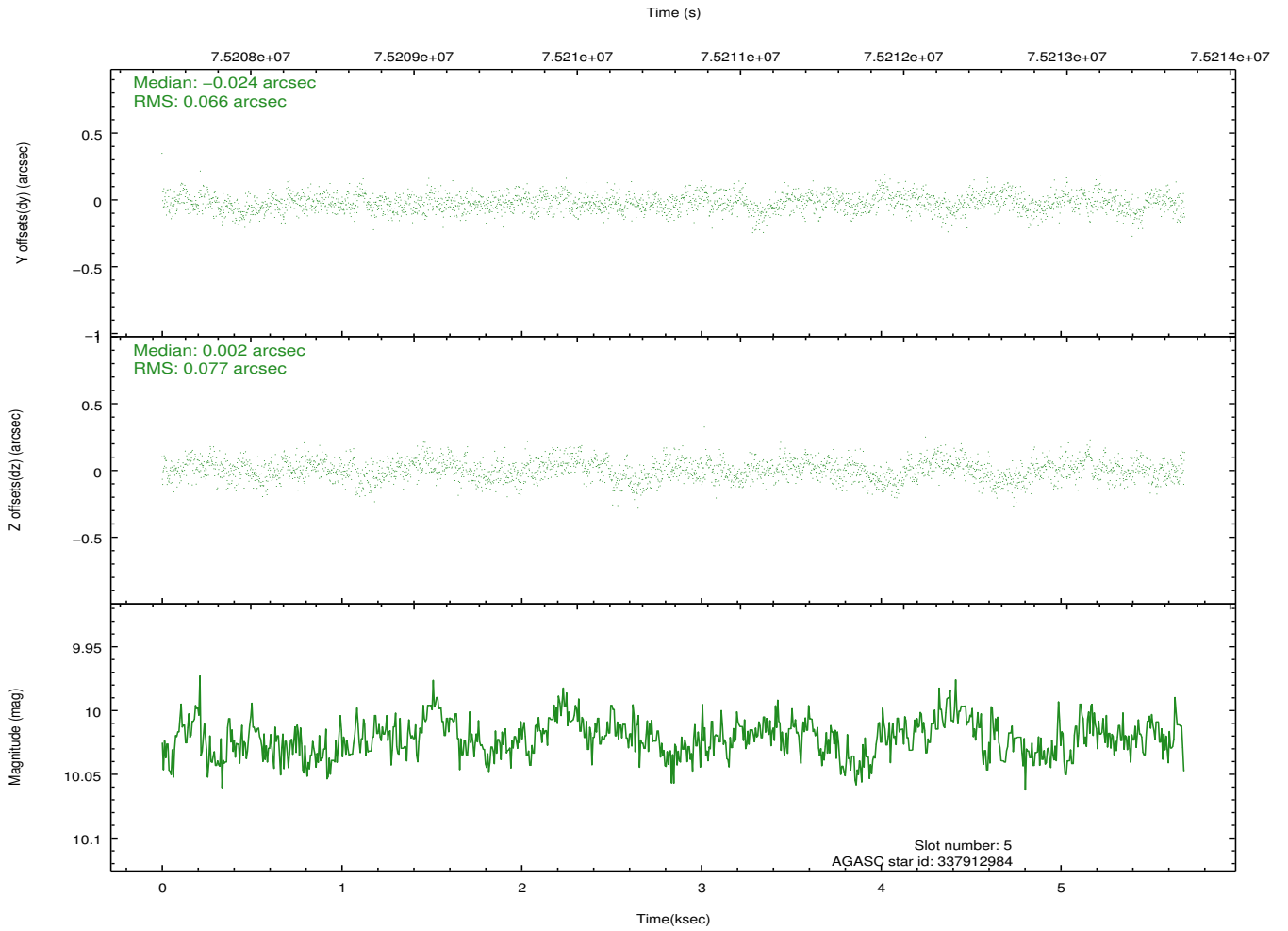
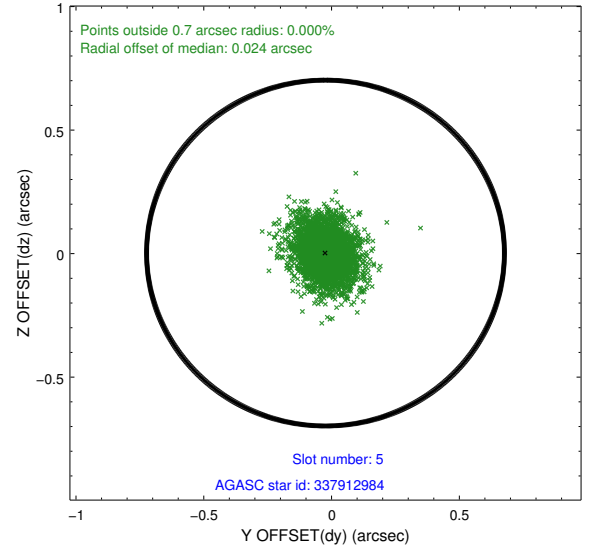
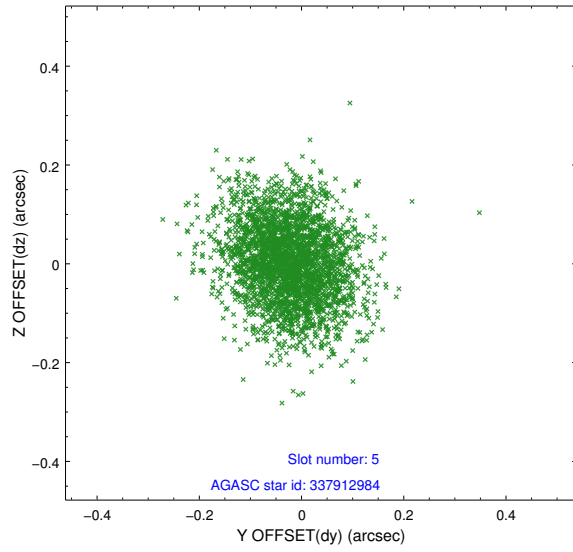
### 2.4.1 Slot 3



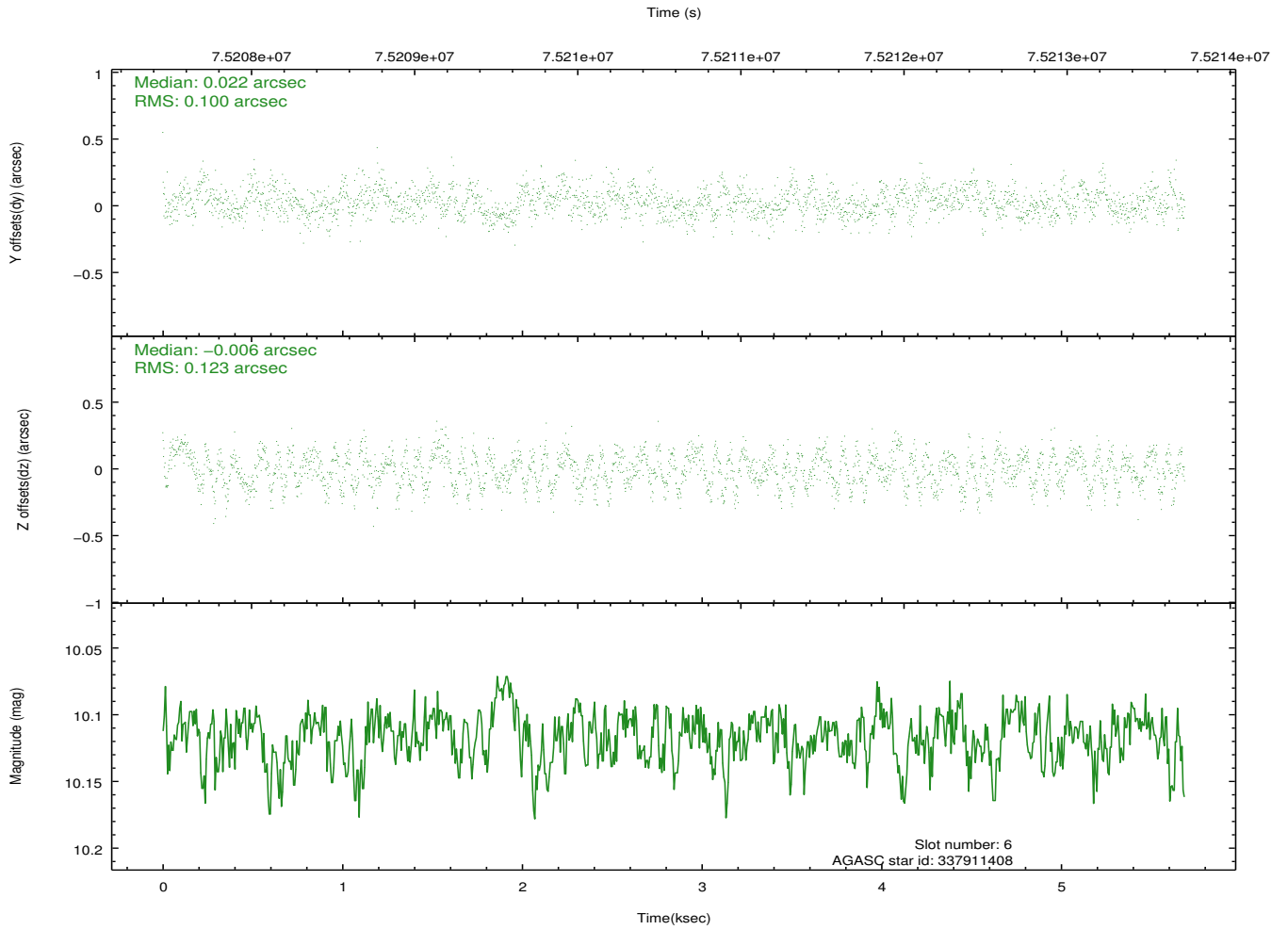
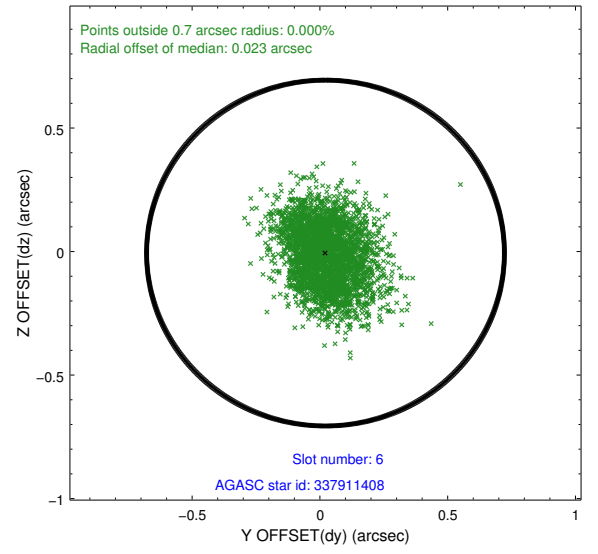
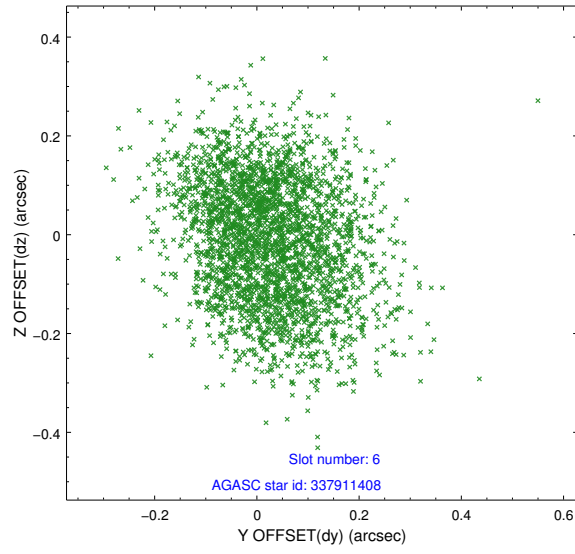
## 2.4.2 Slot 4



### 2.4.3 Slot 5



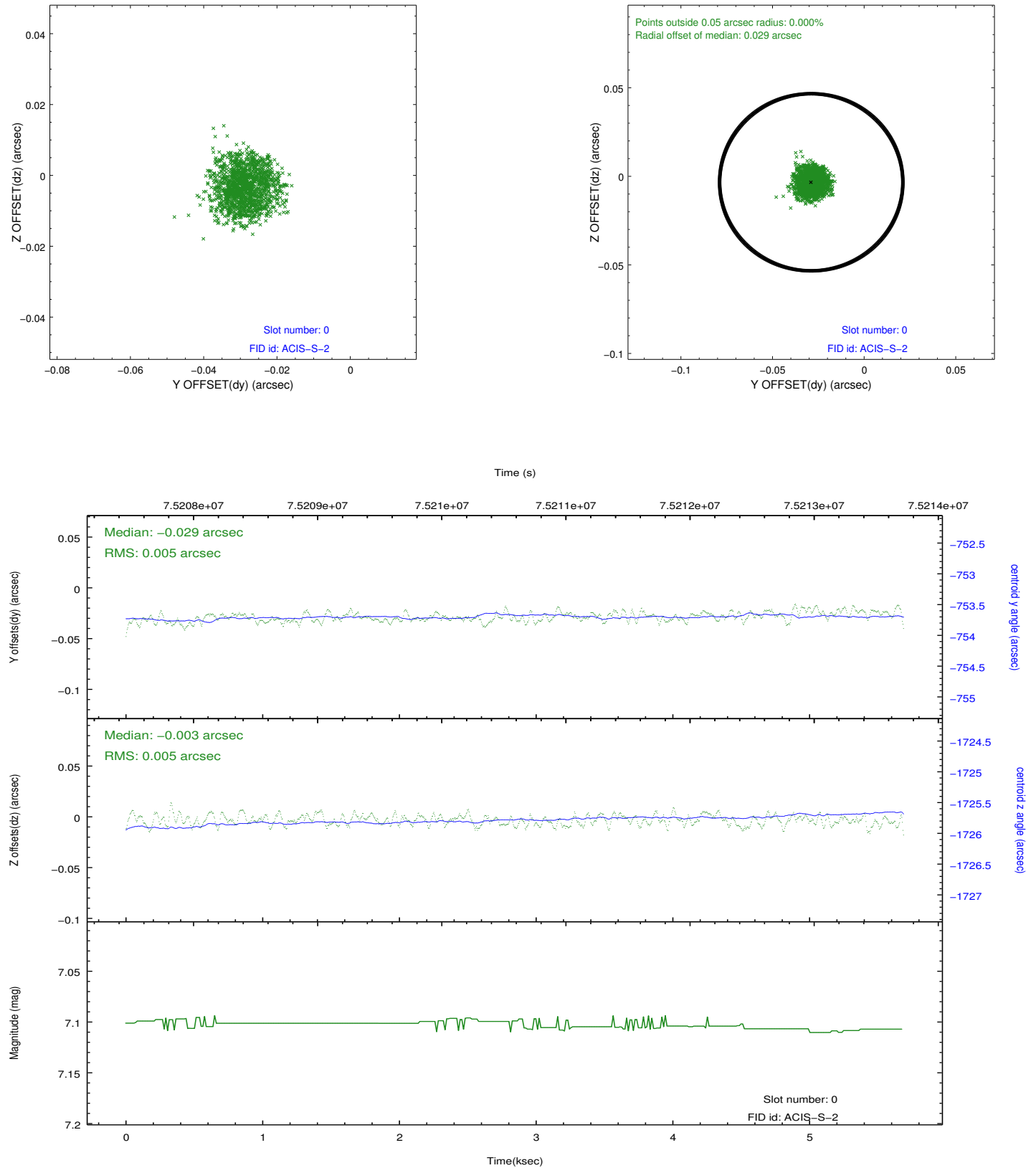
## 2.4.4 Slot 6



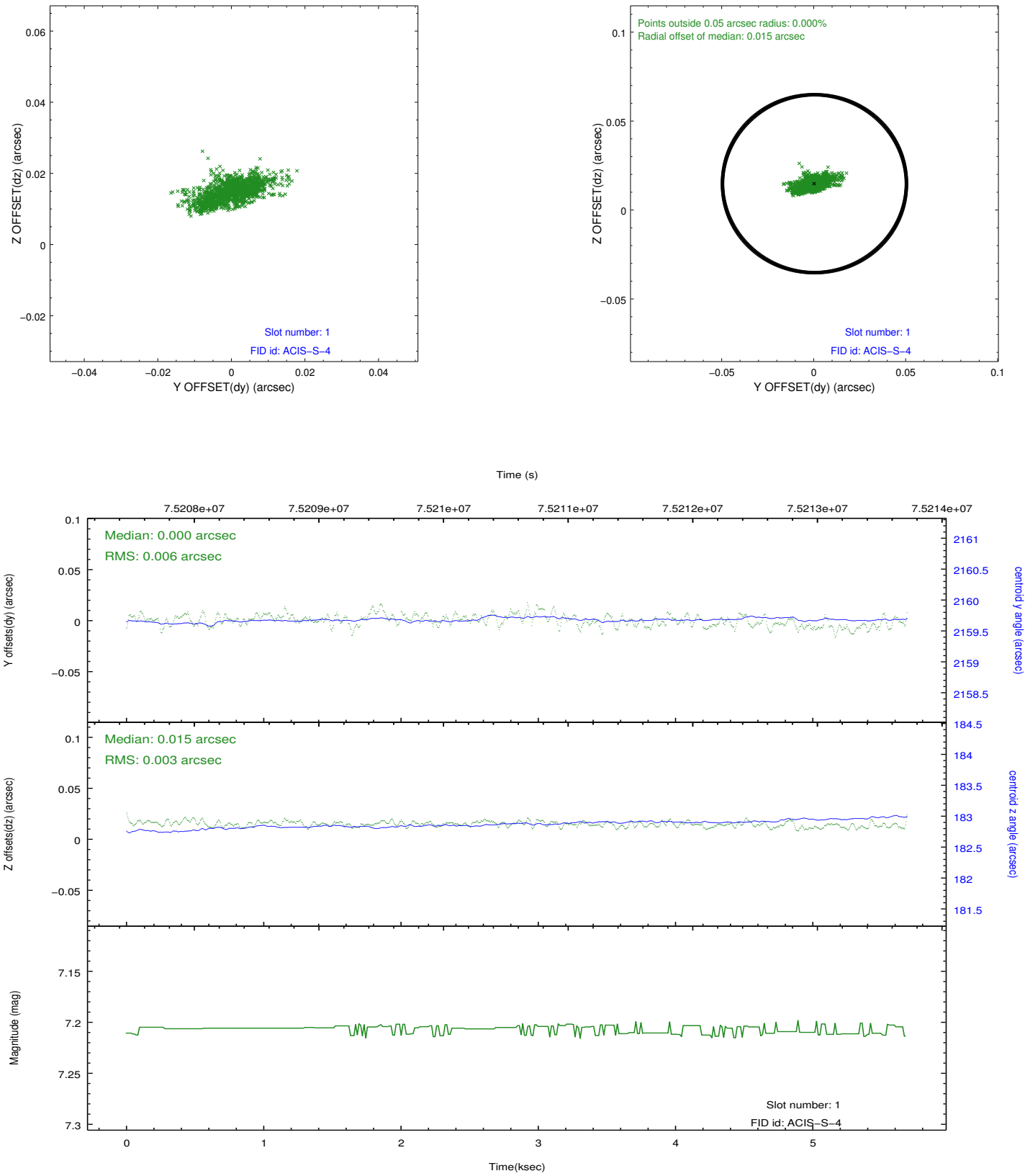


## 2.5 FID Slots

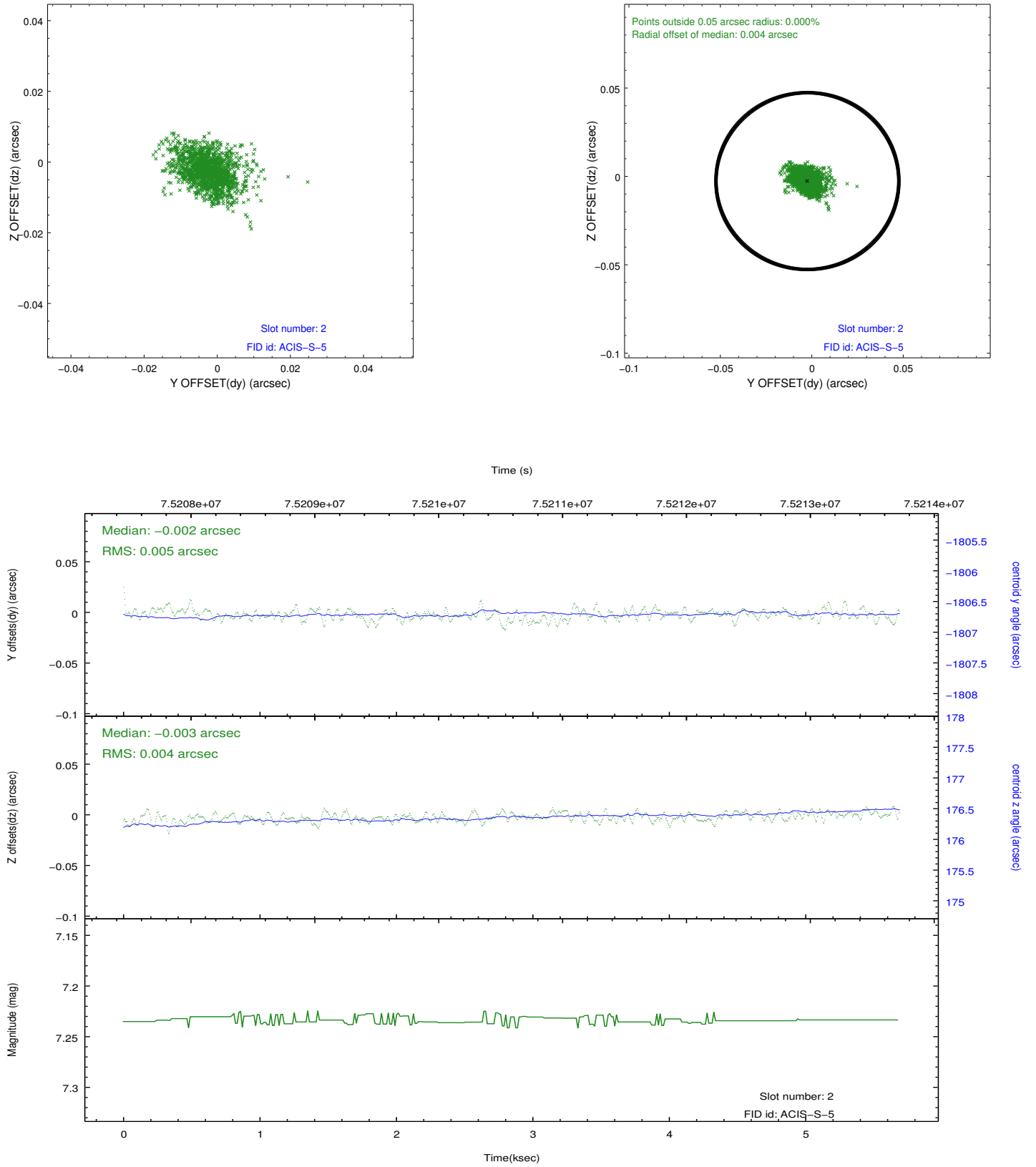
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.08.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.688

### A.2 Comments

Window preference met.

Slot 7 was not utilized in this observation.