

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2377 - L2 Version 5  
Chandra X-Ray Center

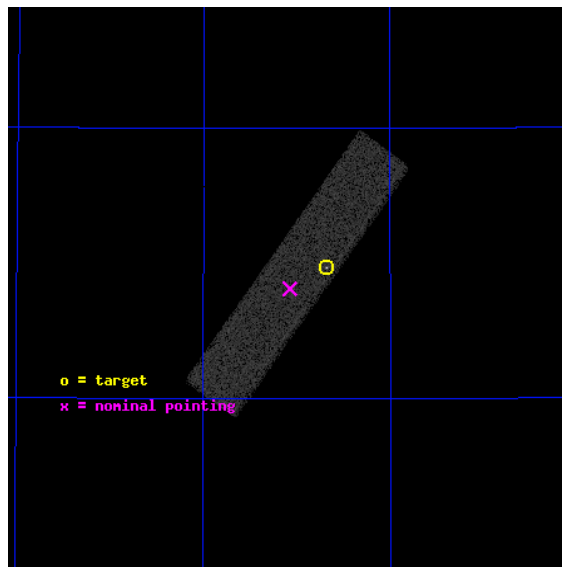
L2 Processing Date : Sep 4 2012

## 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	Parameters . . . . .	4
2.1.3	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

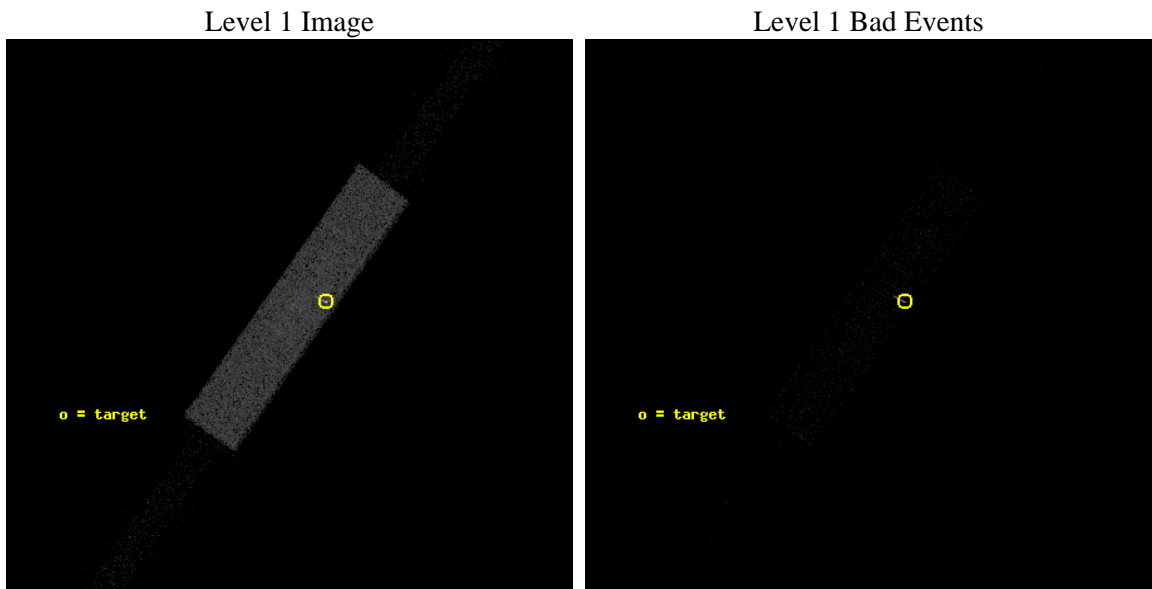
seq_num	290123	Sequence number
obs_id	2377	Observation id
title	HRC-I CALIBRATION OBSERVATIONS OF ARLAC	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ARLAC,HRC-S,AO2	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.26875362995	Nominal RA [deg]
dec_nom	45.70339024811	Nominal Dec [deg]
roll_nom	305.19568585837	Nominal Roll [deg]
revision	5	Processing version of data
ontime	1142.1062937081	[s]
livetime	1136.7884407309	Ontime multiplied by DTCOR
l2events	35581	Number of level 2 events



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	1000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	1142.1062937081	[s]
caldbver	4.5.1.1	&#160	l1events	60324	Number of level 1 events
date	2012-09-05T01:22:16	Date and time of file creation			
revision	4	Processing version of data			

### 2.1.3 Events

Level 1 Events

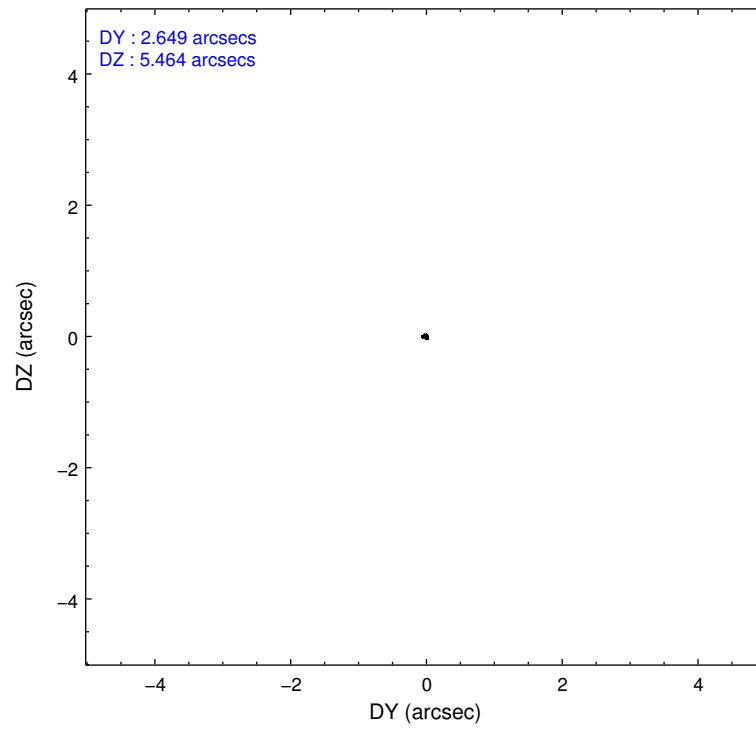
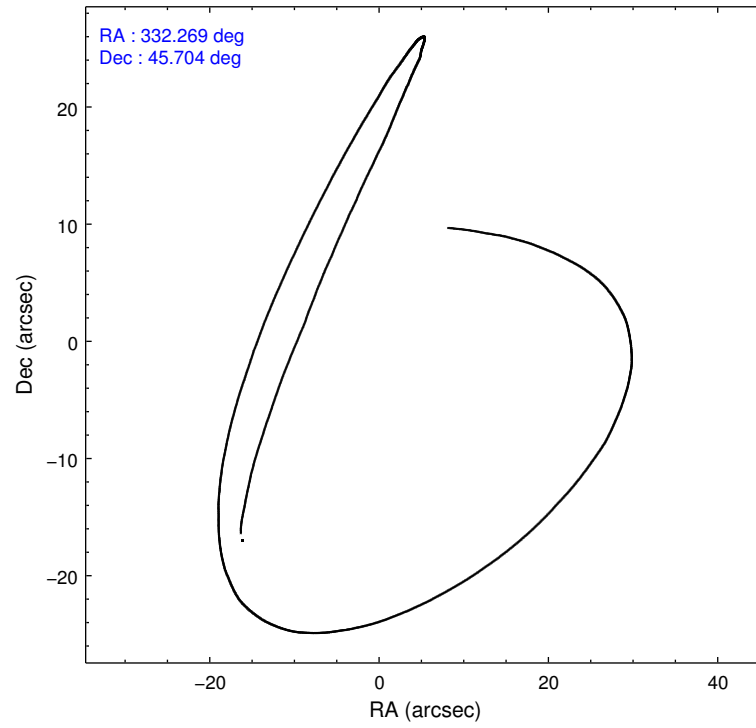
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	947	58429	948
rejected events	947	13461	948
rejected %	100%	23%	100%

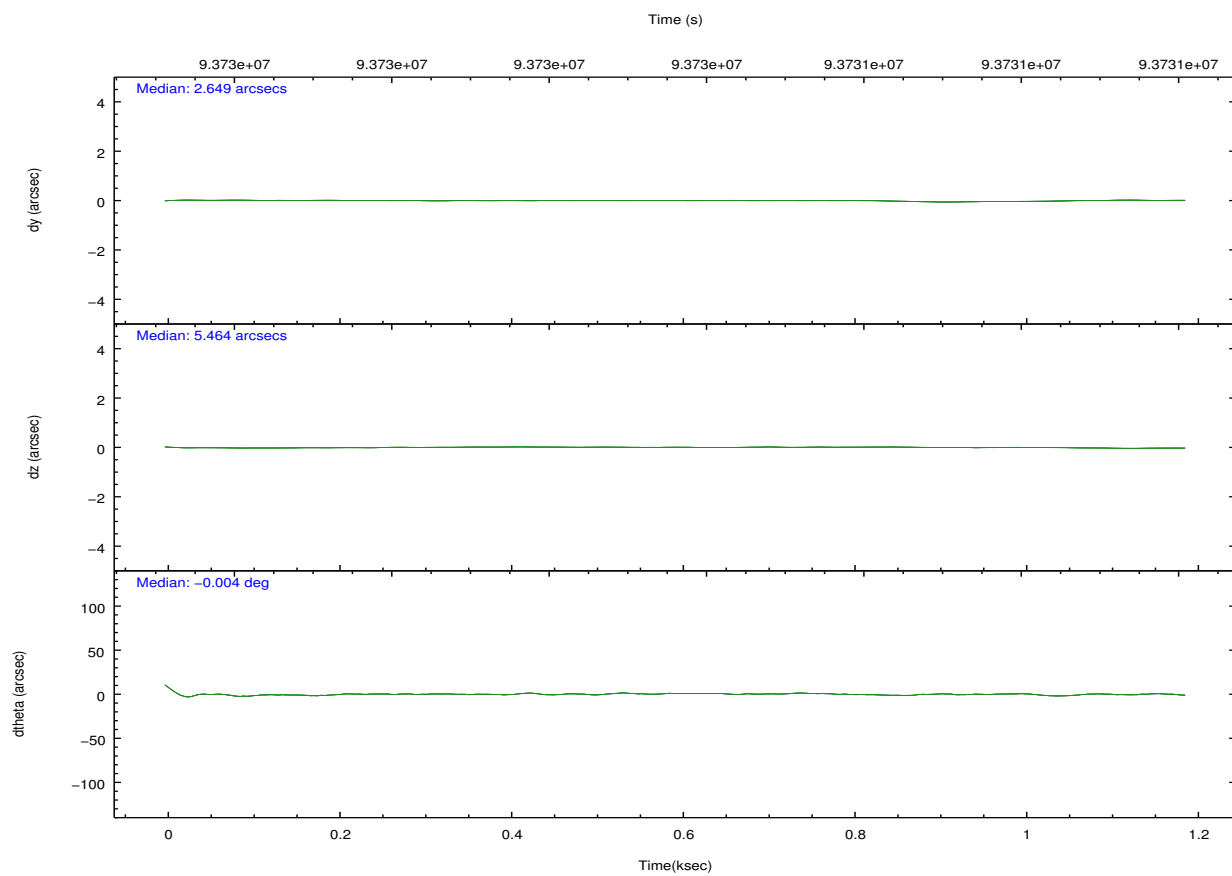
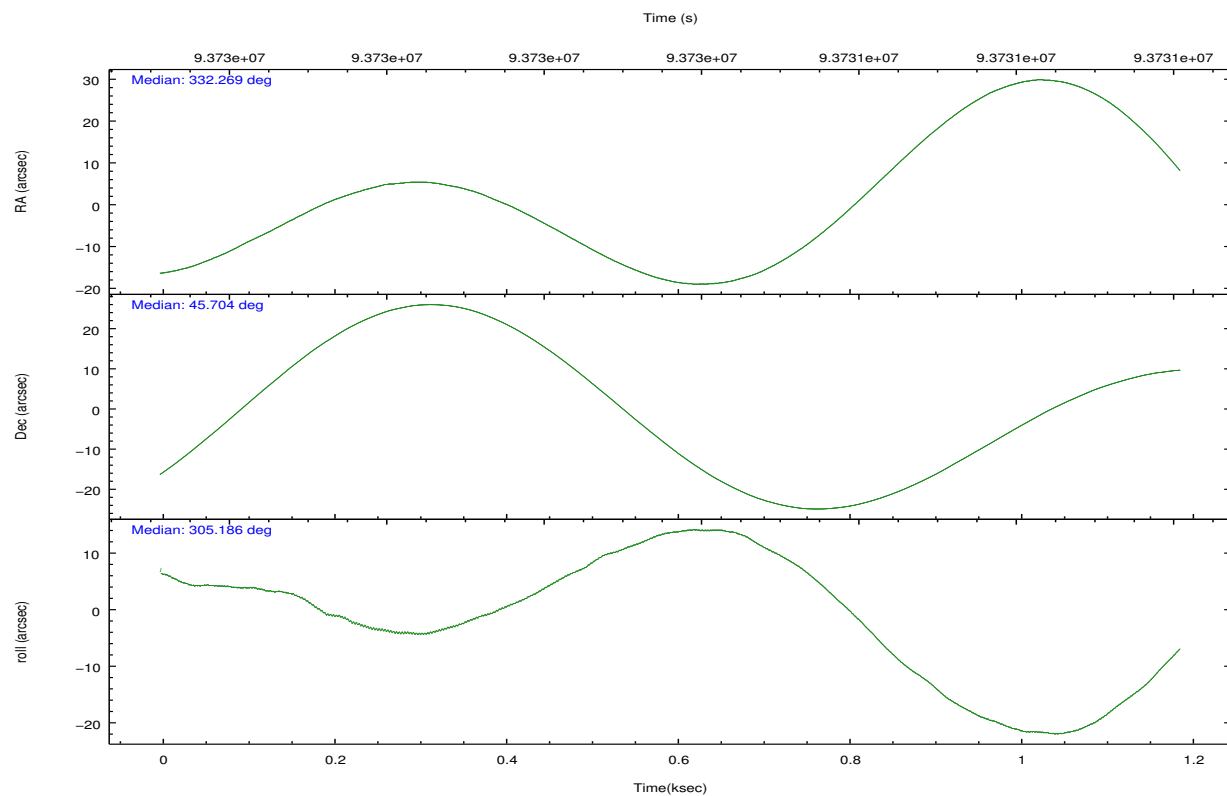
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-S	HRC-S
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	332.229746	332.2687536299486
[deg] Pointing Dec	45.713795	45.70339024810961
[deg] Pointing Roll	305.156307	305.1956858583708
[mm] SIM focus pos	-1.429586	-1.428180813131781
[mm] SIM defocus	0.1037507710433287	0.1051558262725154
[mm] SIM translation stage pos	250.455976	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	93729952.184000	93729575.876836
Observation start date	2000-12-20T20:04:48	2000-12-20T19:59:35
[s] Observation end time (MET)	93730952.184000	93731086.214394
Observation end date	2000-12-20T20:21:28	2000-12-20T20:24:46

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED

## 2.3 Aspect





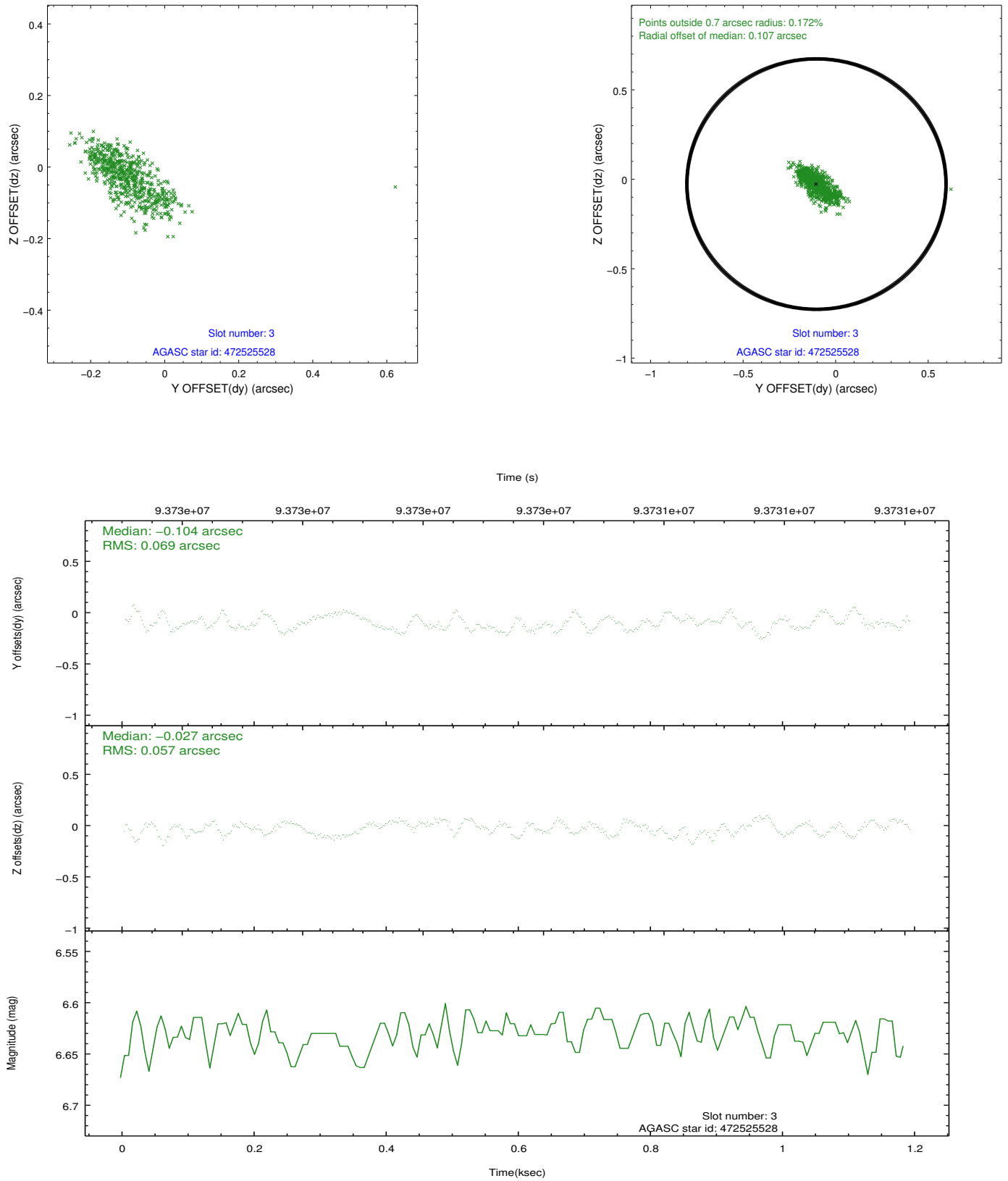
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	6.97	290	0.132	-0.105	0.005	0.009	0.000000	0.000000	-1156.67	-453.96
1	FID	HRC-S-2	6.97	290	0.128	-0.151	0.010	0.018	0.000000	0.000000	1239.01	-448.18
2	FID	HRC-S-4	6.93	290	0.142	-0.047	0.009	0.017	0.000000	0.000000	1245.85	576.67
3	GUIDE	472525528	6.63	581	-0.104	-0.027	0.092	0.148	331.551102	45.248694	372.88	-2369.90
4	GUIDE	472665256	9.02	581	-0.155	-0.081	0.069	0.112	332.808125	46.195041	-590.76	2170.96
5	GUIDE	420754040	9.09	581	0.077	-0.117	0.101	0.168	331.917939	44.882543	1986.95	-2372.25
6	GUIDE	472659832	9.47	581	-0.005	0.097	0.094	0.151	332.780399	46.098139	-340.56	1915.51
7	GUIDE	472646552	9.62	579	0.180	0.121	0.105	0.164	333.120915	45.571877	1699.89	1549.16

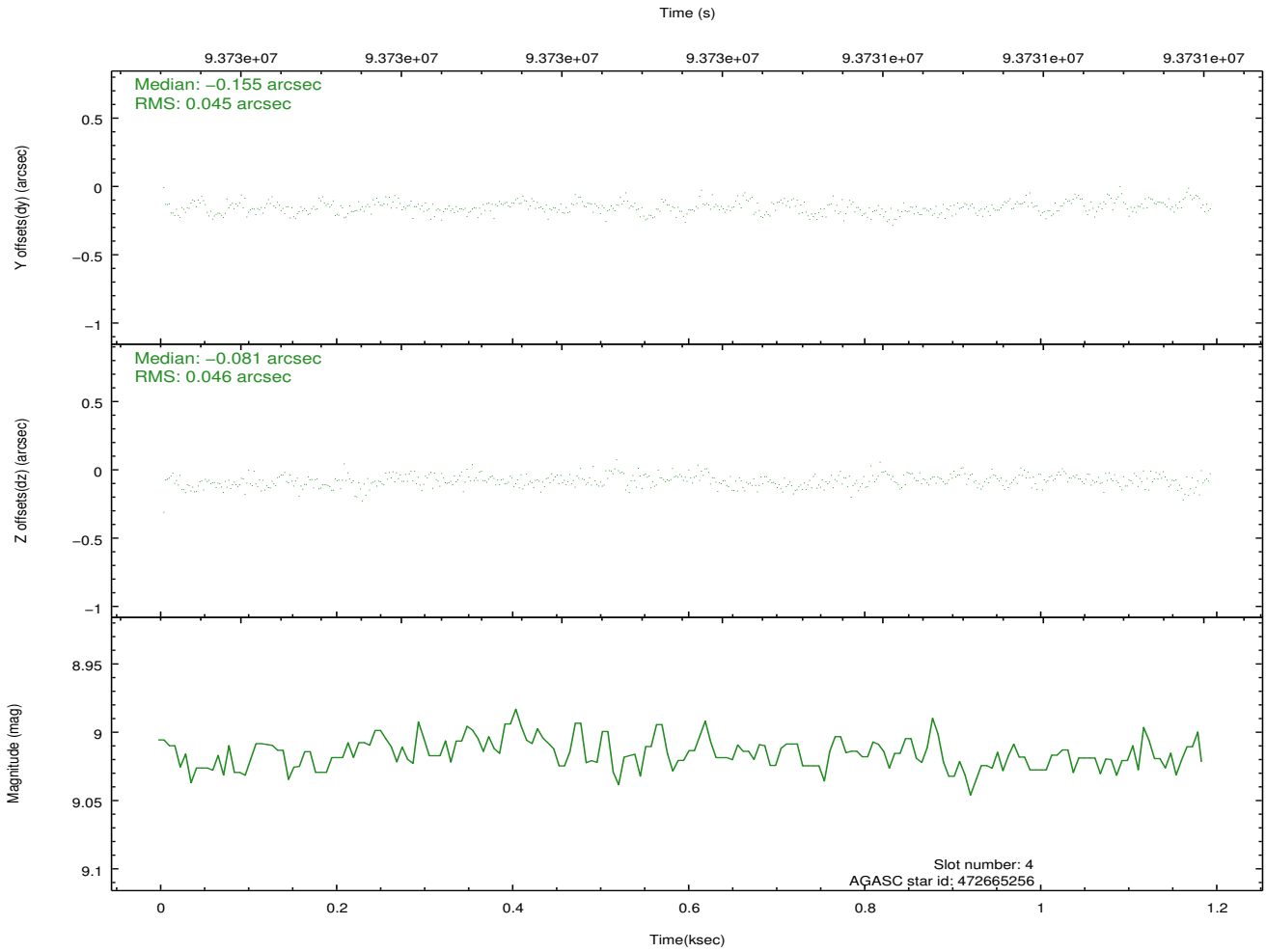
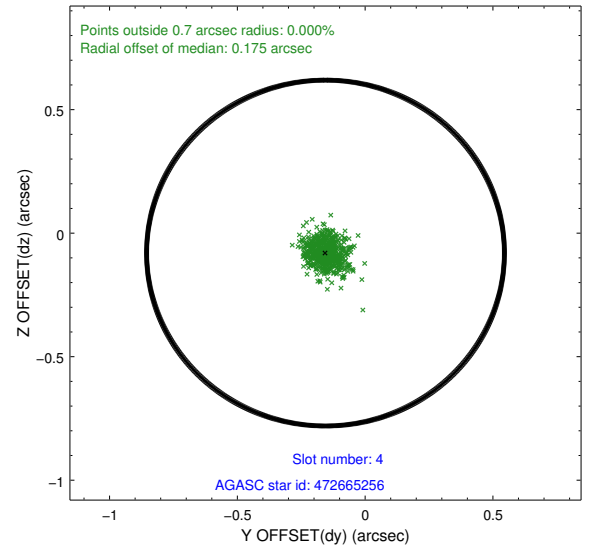
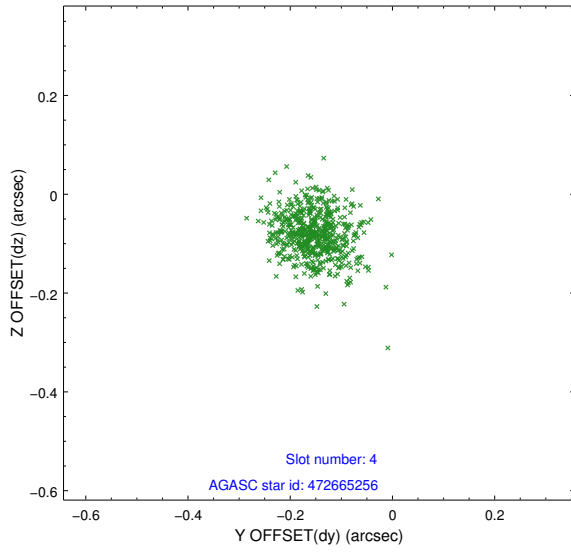


## 2.4 Star Slots

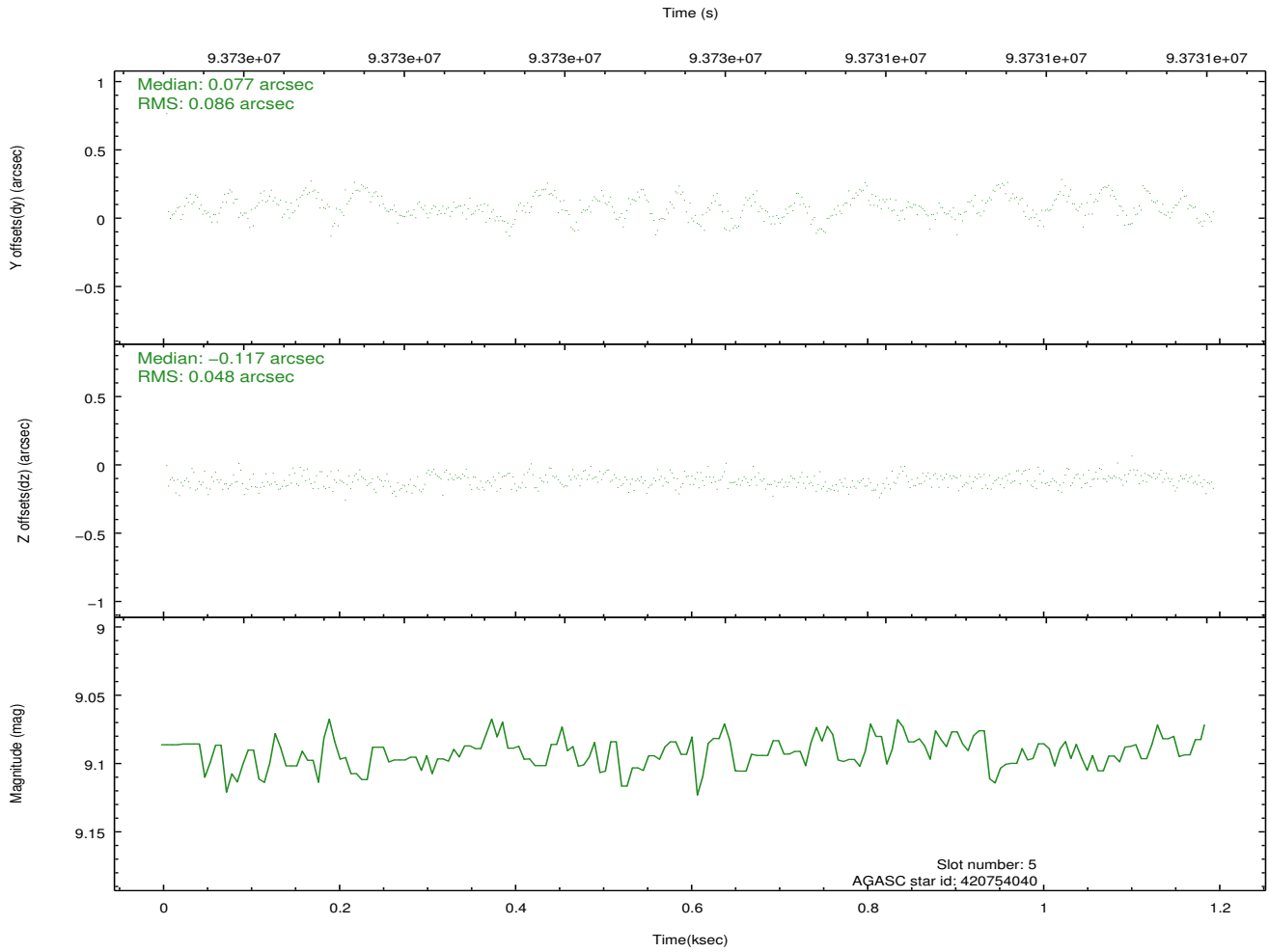
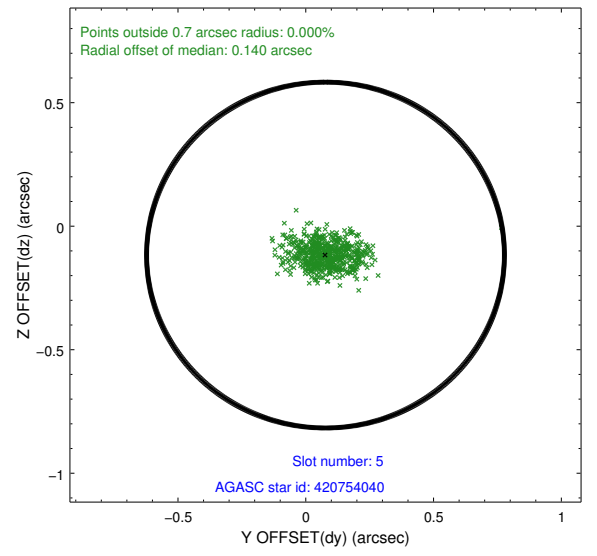
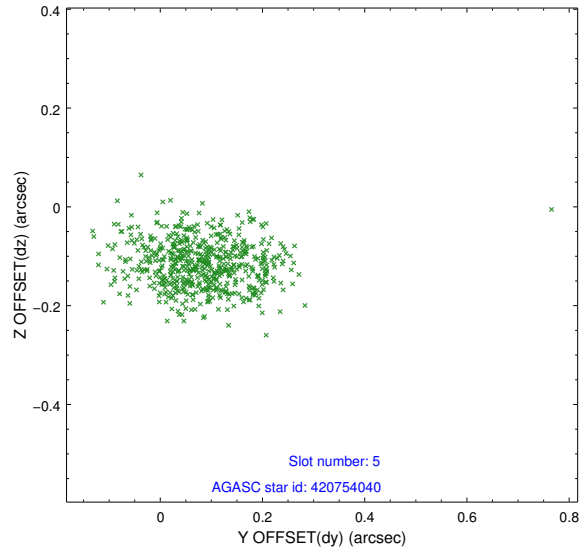
### 2.4.1 Slot 3



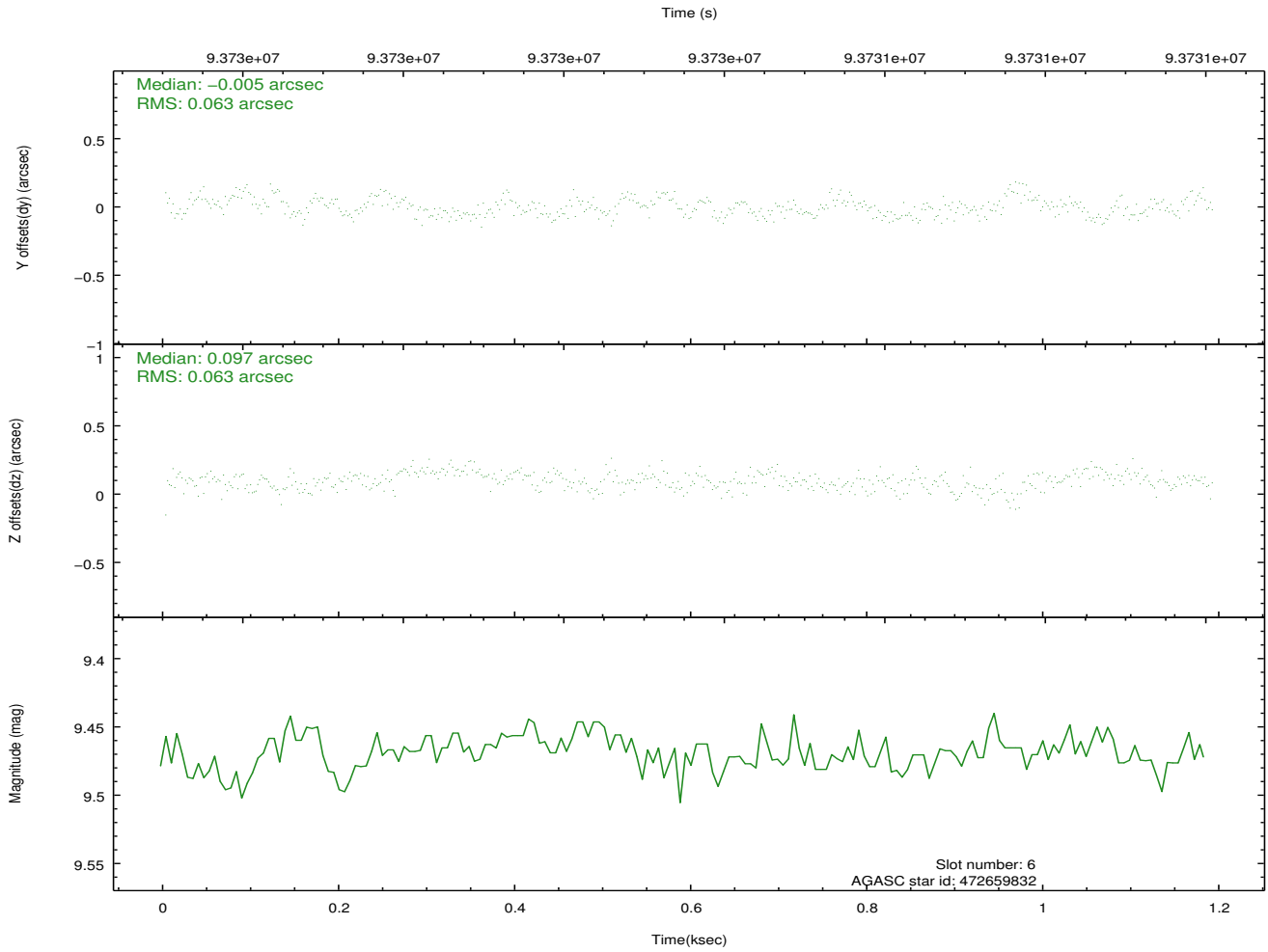
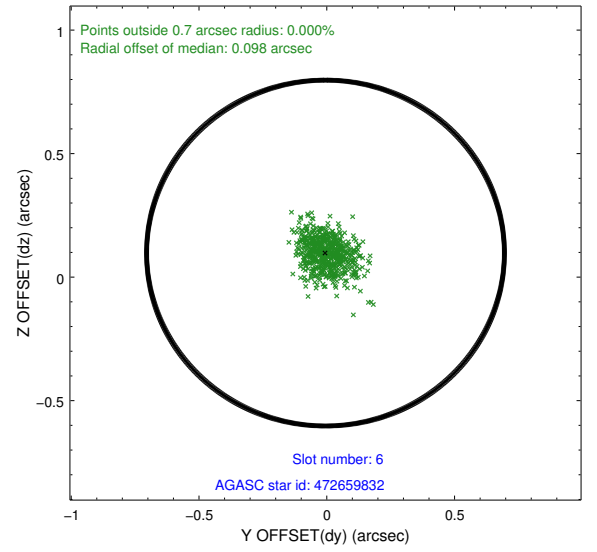
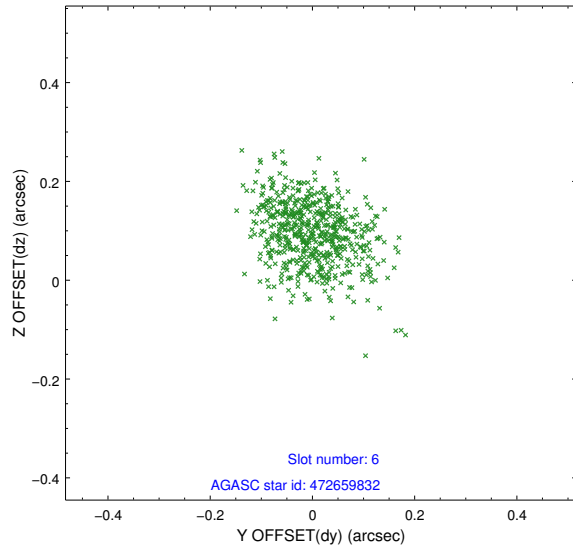
## 2.4.2 Slot 4



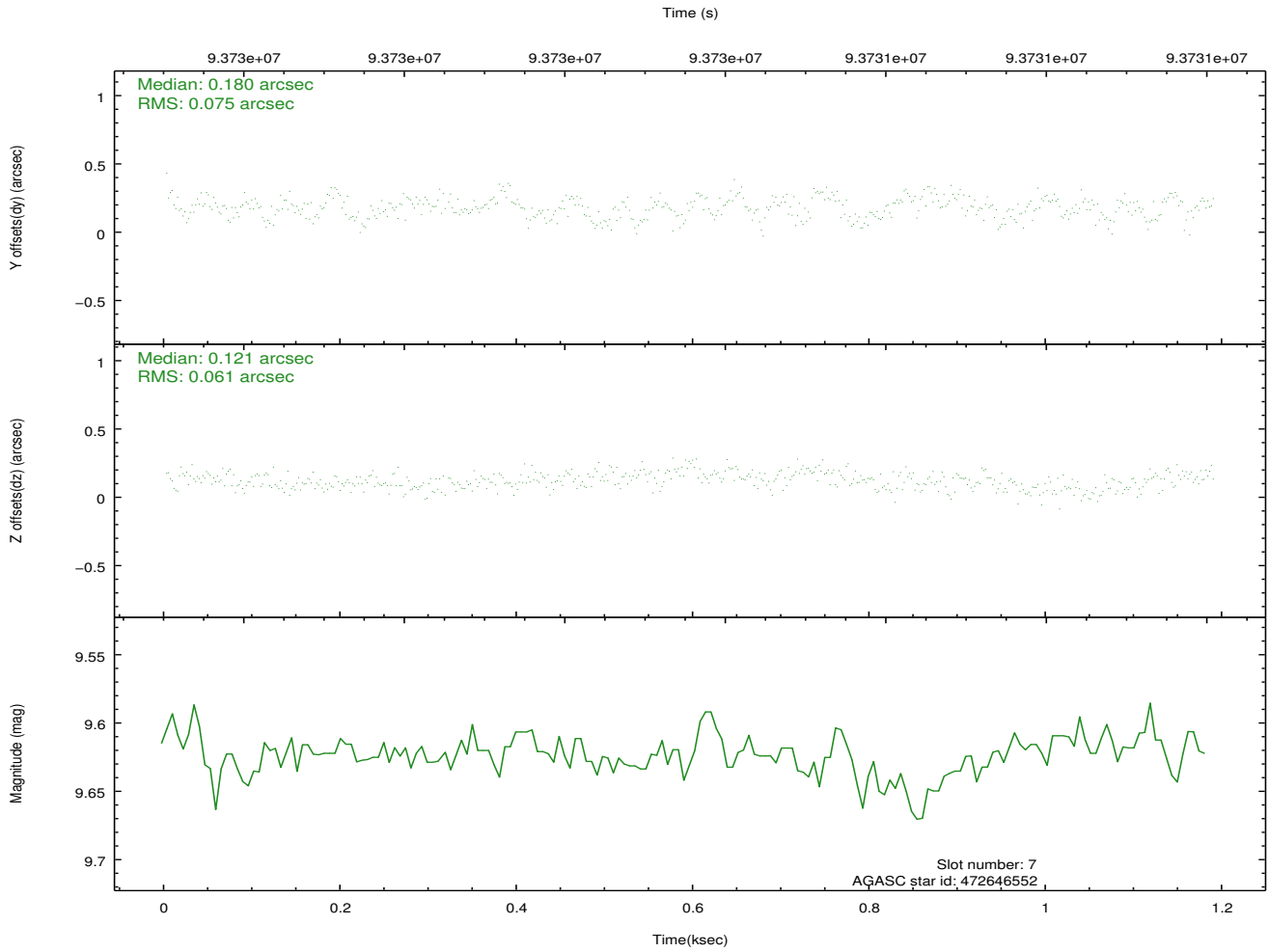
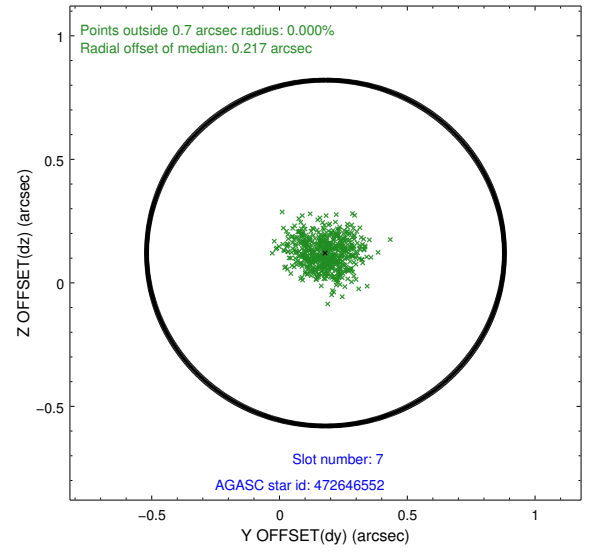
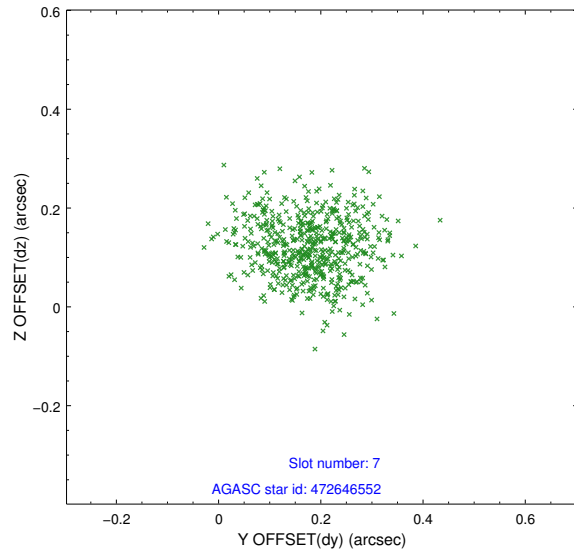
### 2.4.3 Slot 5



## 2.4.4 Slot 6

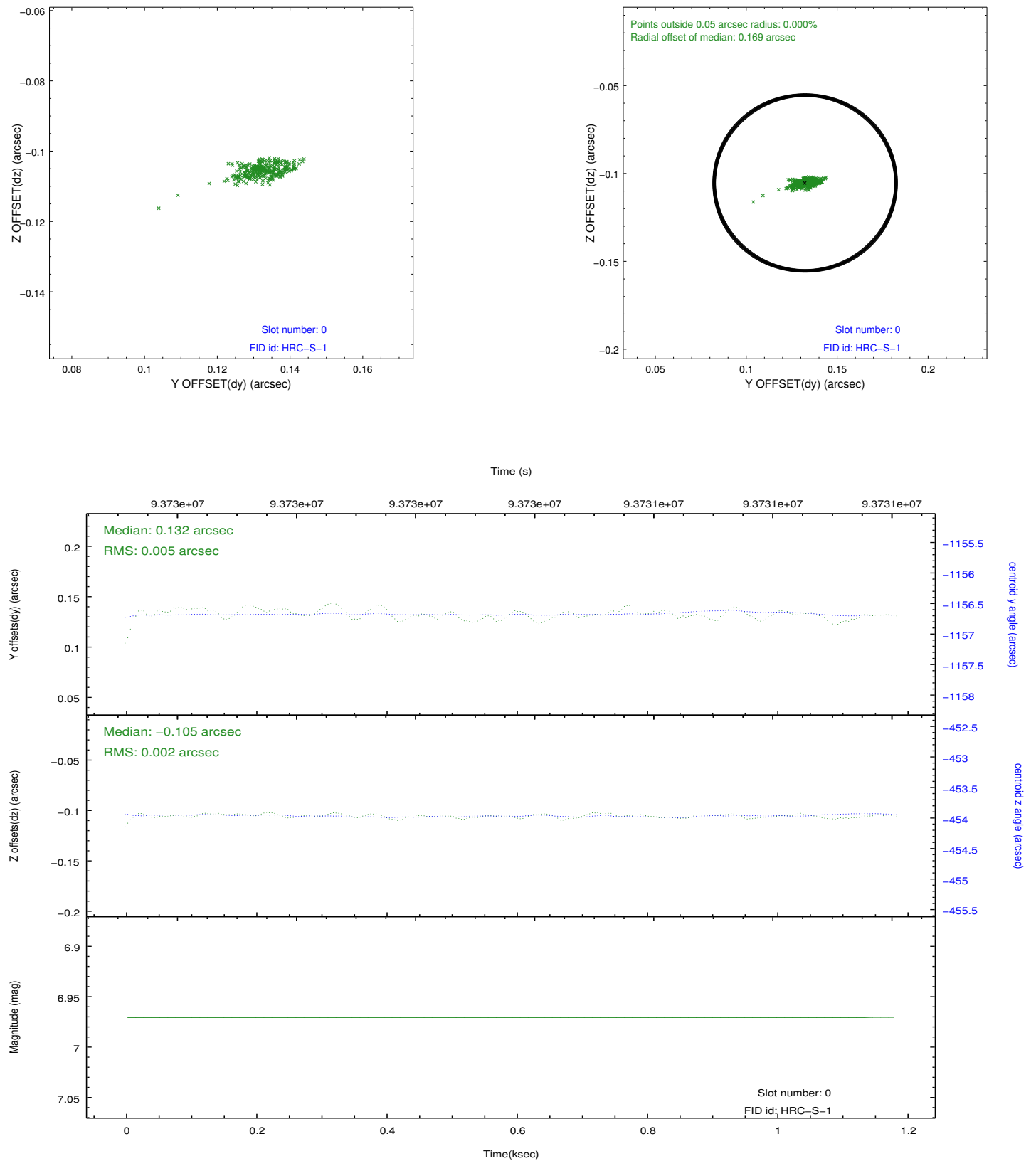


## 2.4.5 Slot 7

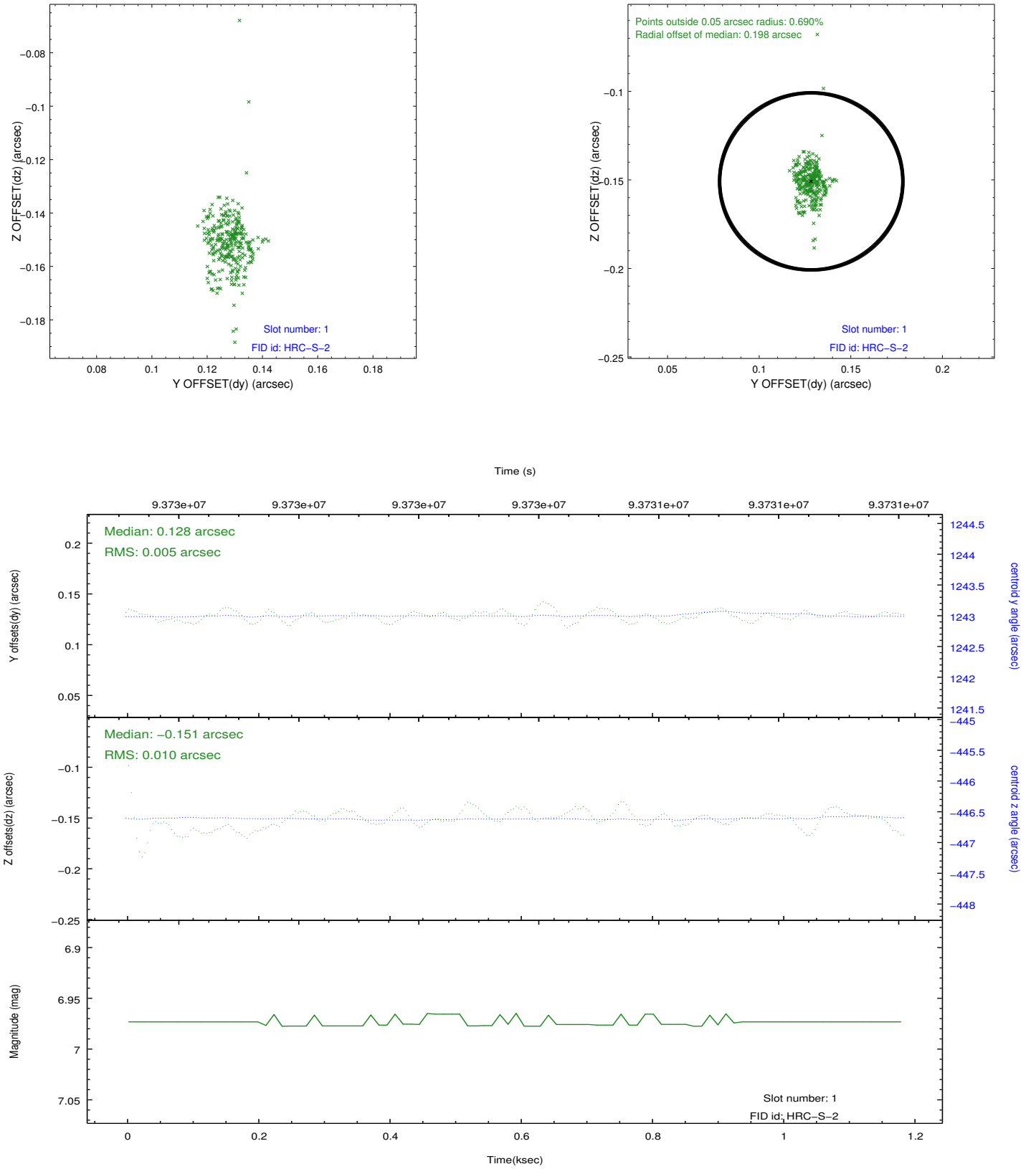


## 2.5 FID Slots

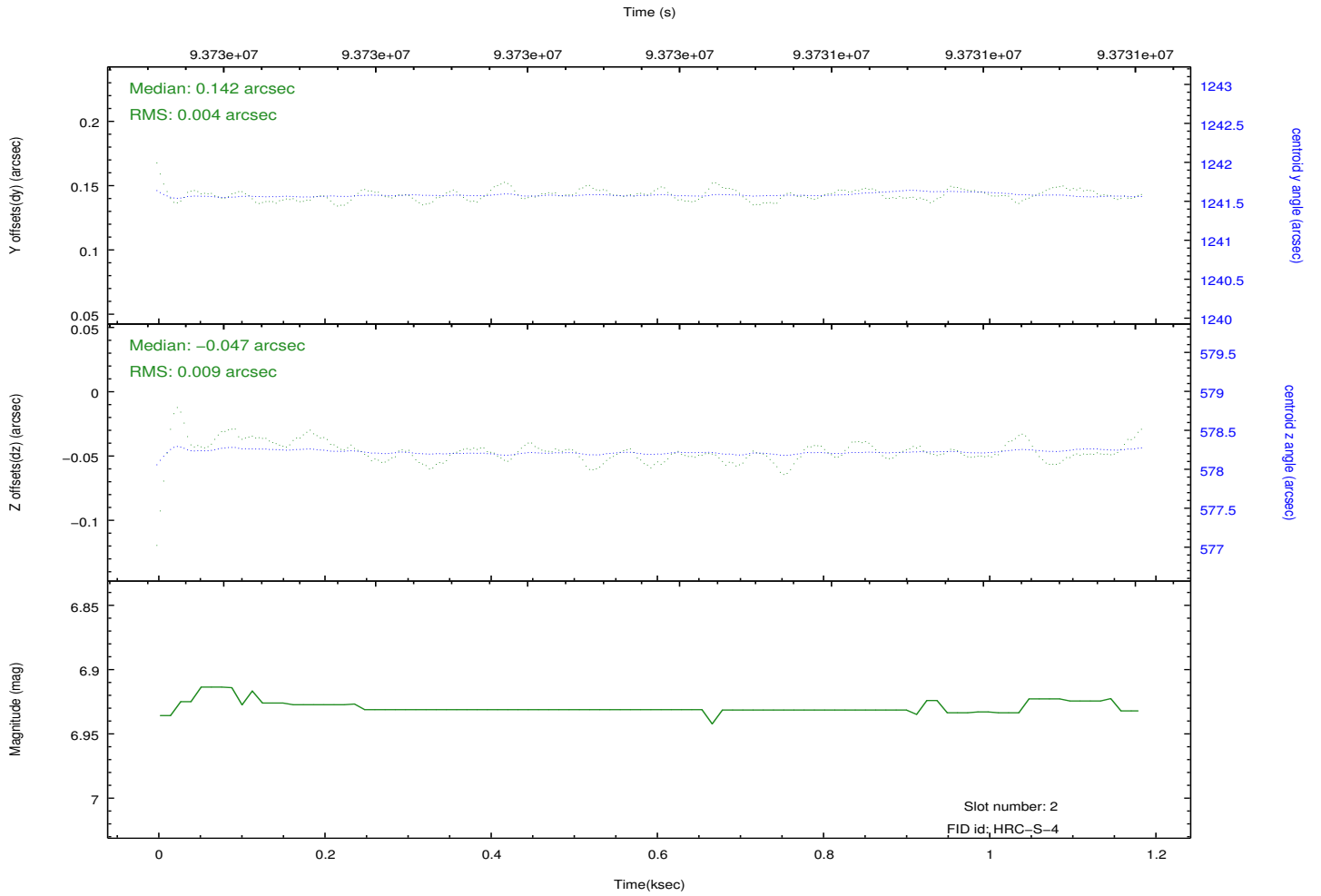
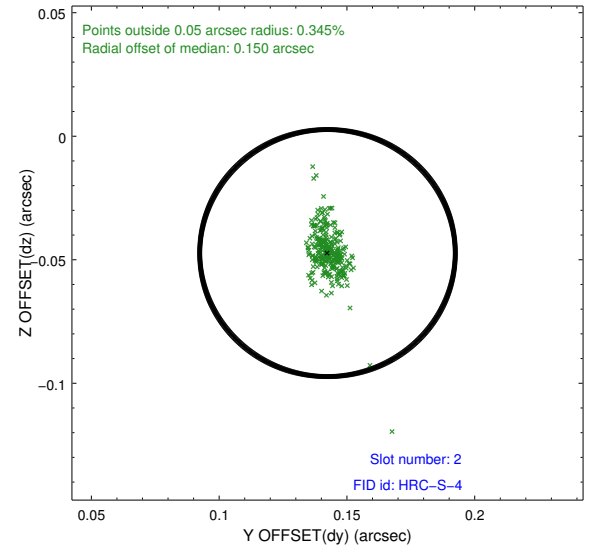
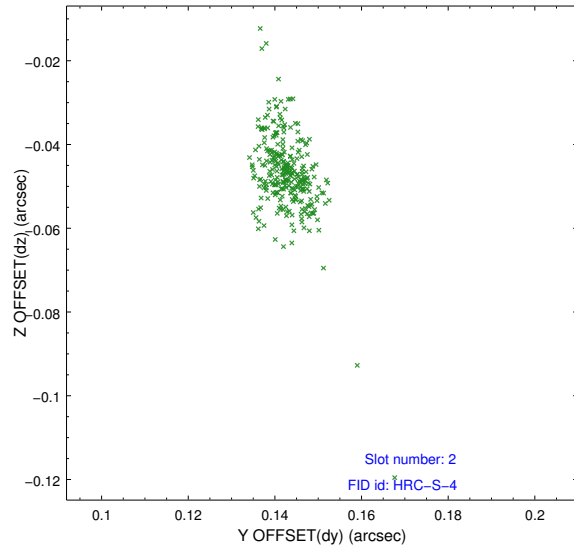
### 2.5.1 Slot 0



## 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)	2012.09.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.182

### A.2 Comments

Charge time for this ObsId remains at previous value of 1.182 ks, although with the current processing the charge time would have been 1.14 ksec.