

# V&V Reference Report

## L2 ASCDS Version : 8.1.1

Observation 1501 - L2 Version 5

Chandra X-Ray Center

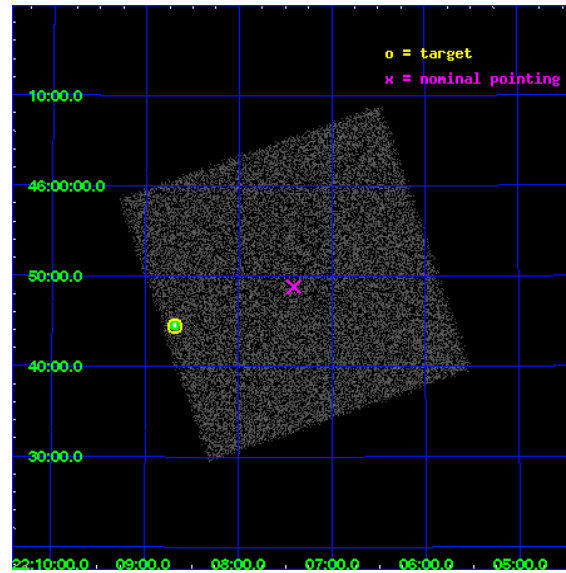
L2 Processing Date : Nov 25 2009

## 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
2.5	FID Slots . . . . .	13
2.5.1	Slot 0 . . . . .	13
2.5.2	Slot 1 . . . . .	14
2.5.3	Slot 2 . . . . .	15
<b>3</b>	<b>Point Sources</b>	<b>16</b>
<b>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

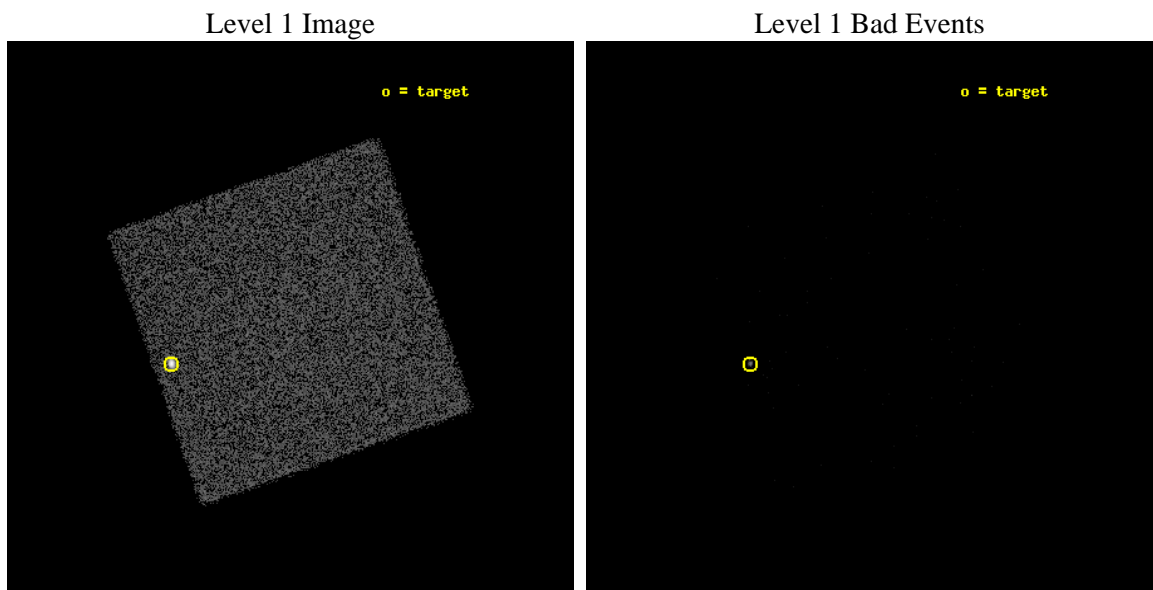
seq_num	280451	Sequence number
obs_id	1501	Observation id
title	&#160	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.1701	Observer's specified target RA
dec_targ	45.7423	Observer's specified target Dec
ra_nom	331.8519813321	Nominal RA
dec_nom	45.814254192485	Nominal Dec
roll_nom	295.79073512146	Nominal Roll
revision	5	Processing version of data
ontime	1211.8062938601	[s]
livetime	1204.0852561072	Ontime multiplied by DTCOR
l2events	38884	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	Scheduled observation exposure time
ascdsver	8.1.1	Processing system revision	ontime	1211.8062938601	[s]
caldbver	4.1.4	&#160	l1events	60527	Number of level 1 events
date	2009-11-25T12:28:01	Date and time of file creation			
revision	4	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

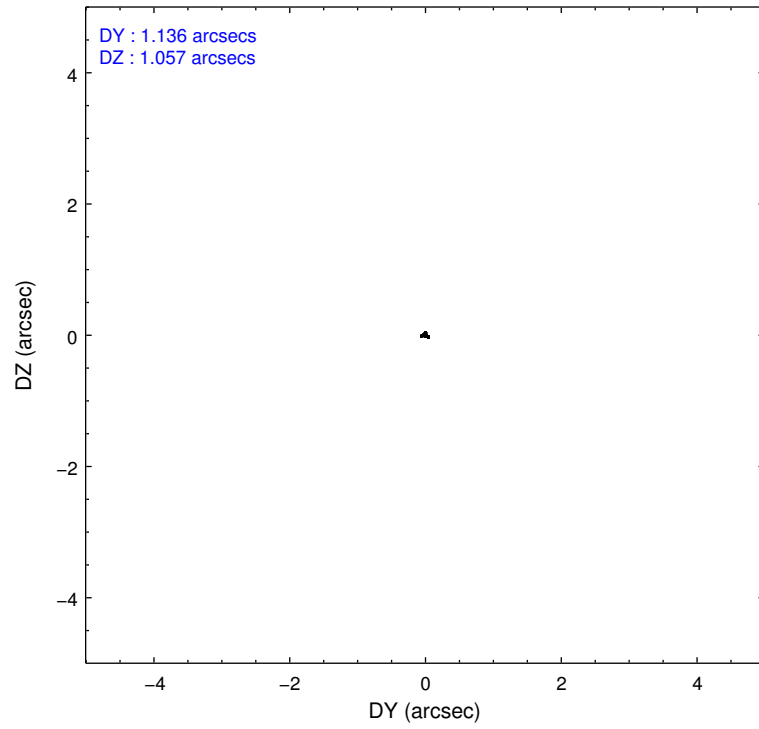
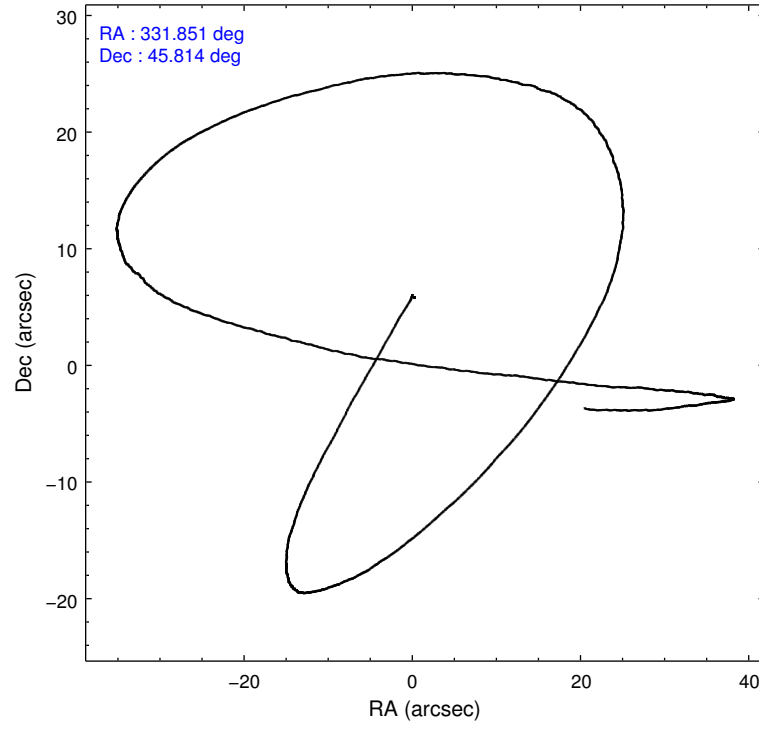
	<b>segment 0</b>
level 1 events	60527
rejected events	2495
rejected %	4%

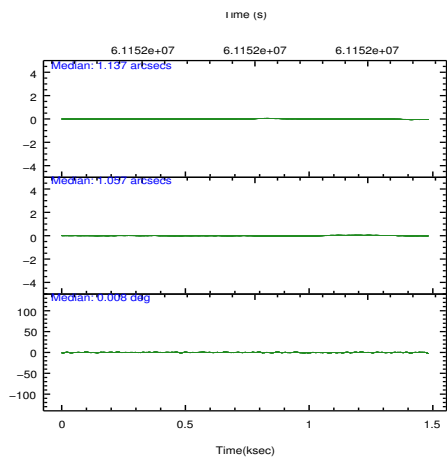
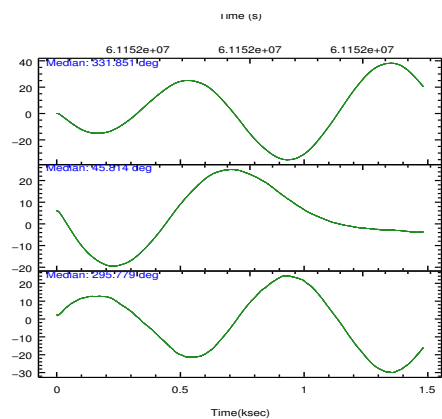
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-I	HRC-I
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
Pointing RA	331.818628	331.8519813321047
Pointing Dec	45.830472	45.81425419248455
Pointing Roll	295.910134	295.7907351214565
SIM focus pos (mm)	-1.040293	-1.038866356238299
SIM defocus (mm)	0	0.001426264420575141
SIM translation stage pos (mm)	126.985494	126.9854943052878
SIM translation stage offset (mm)	0	-5.413686238853188e-06
Observation start time	61151699.184000	61151033.040812
Observation start date	1999-12-09T18:33:55	1999-12-09T18:23:53
Observation end time	61152699.184000	61152832.940877
Observation end date	1999-12-09T18:50:35	1999-12-09T18:53:52

Parameter	Planned	Actual
Obspar format version number	6	6
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED

## 2.3 Aspect



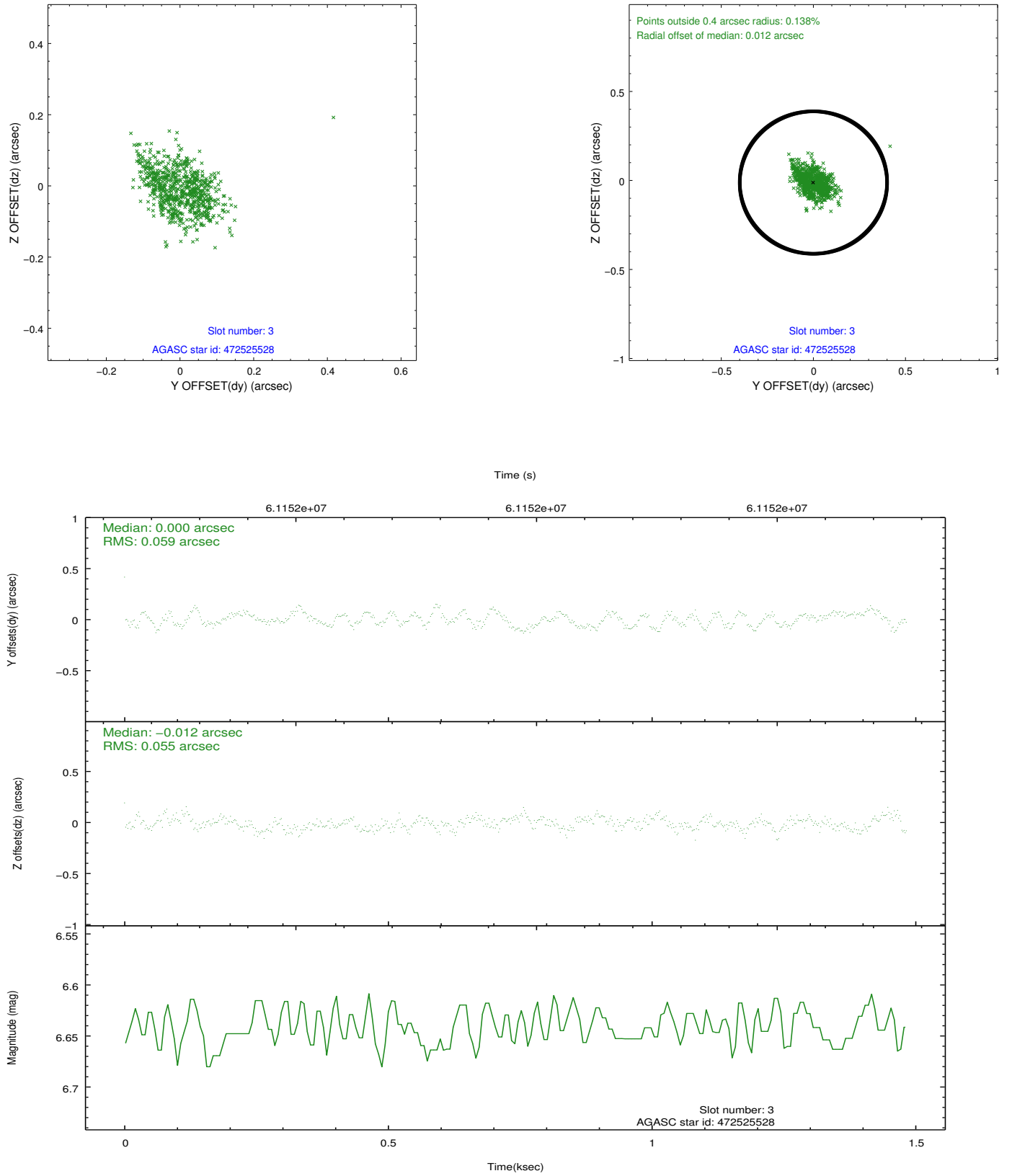


Slot Statistics

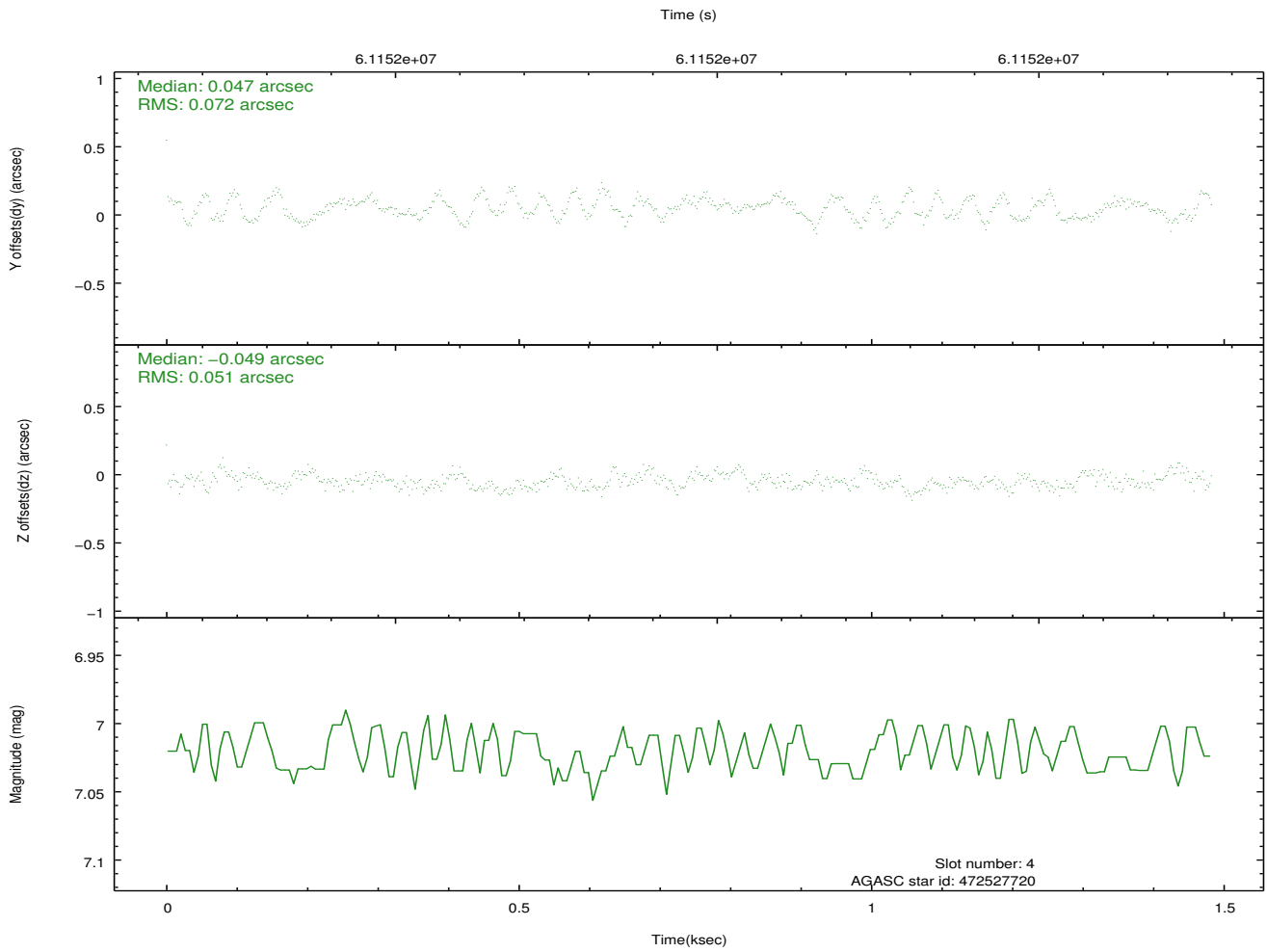
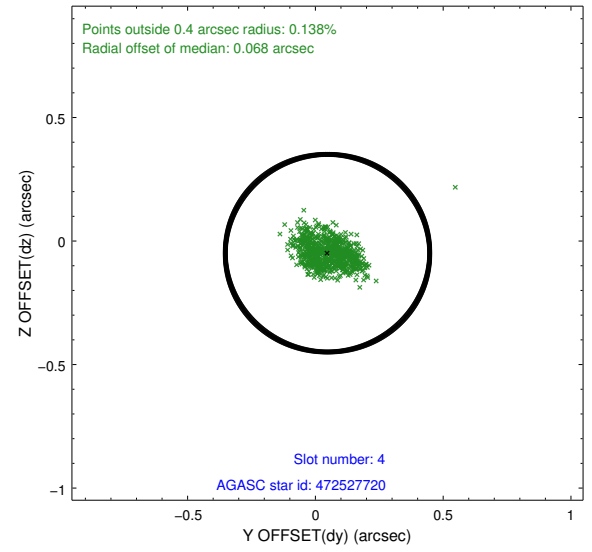
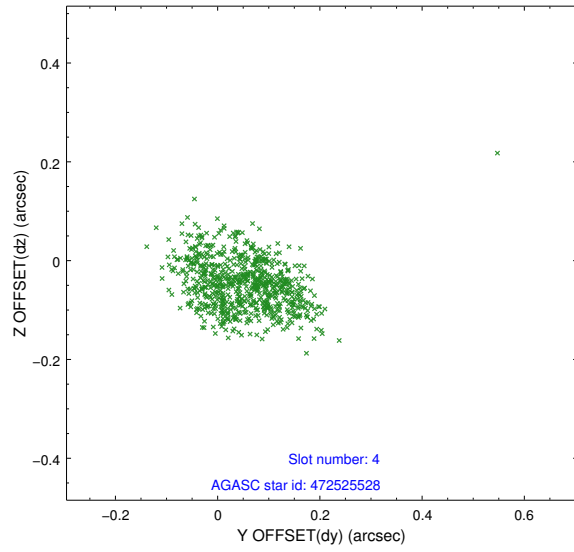
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	6.96	724	0.007	-0.047	0.005	0.010	0.000000	0.000000	-756.53	-1288.85
1	FID	HRC-I-3	7.04	724	0.058	-0.042	0.006	0.011	0.000000	0.000000	-1186.05	1013.94
2	FID	HRC-I-4	6.99	724	0.049	0.001	0.005	0.009	0.000000	0.000000	1284.63	1014.80
3	GUIDE	472525528	6.64	724	0.000	-0.012	0.083	0.138	331.551102	45.248694	1583.87	-1524.15
4	GUIDE	472527720	7.02	724	0.047	-0.049	0.093	0.143	331.460205	45.112509	1924.78	-1949.27
5	GUIDE	472523760	8.23	724	-0.022	-0.097	0.071	0.117	331.645363	45.403260	1191.39	-1068.17
6	GUIDE	472655152	9.43	723	-0.028	0.154	0.095	0.158	332.504239	45.862991	637.34	1599.34
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

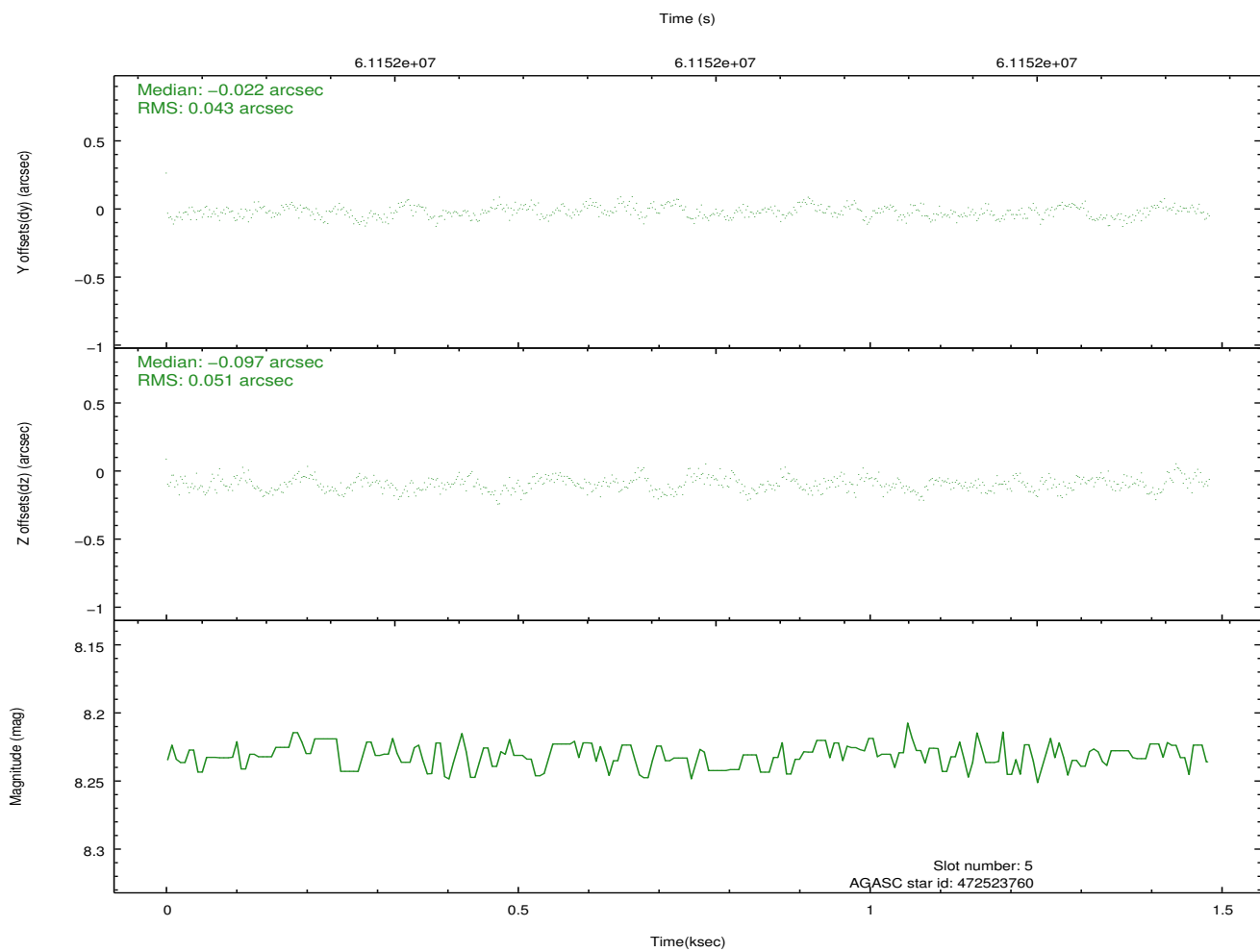
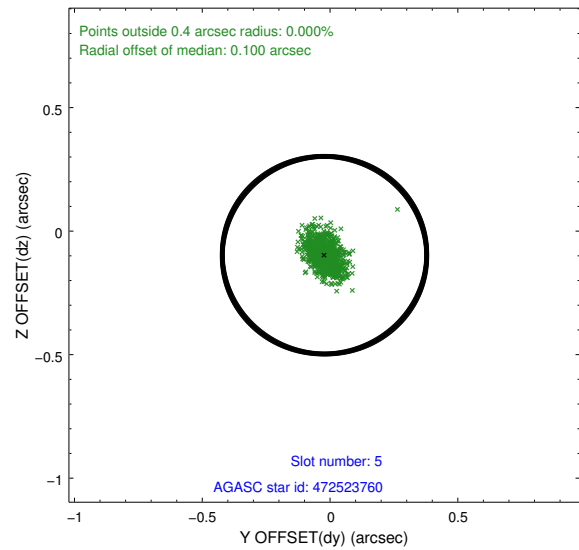
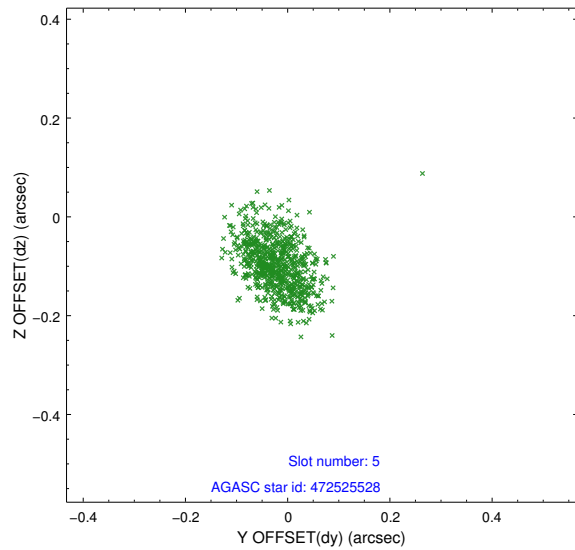
### 2.4.1 Slot 3



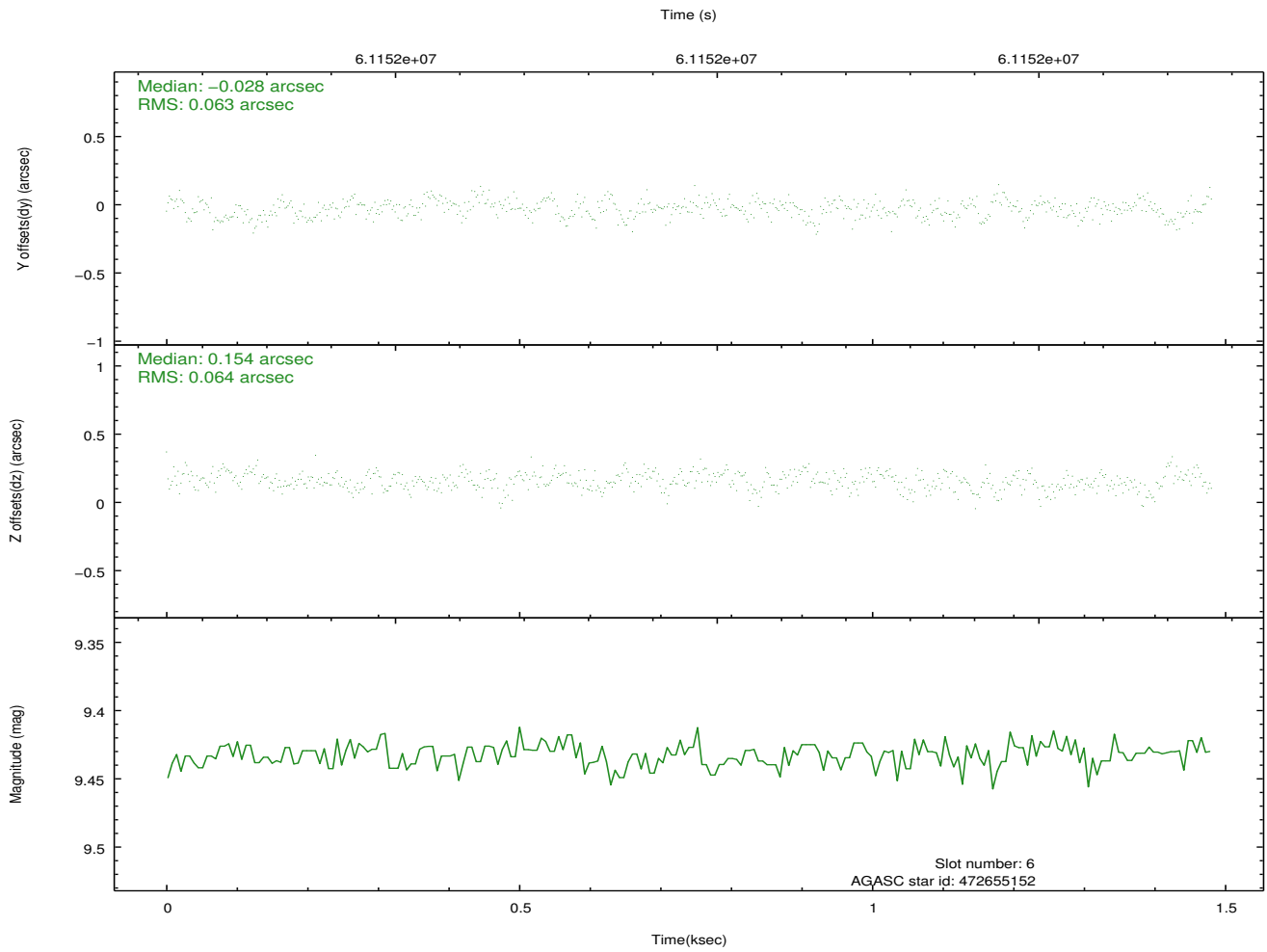
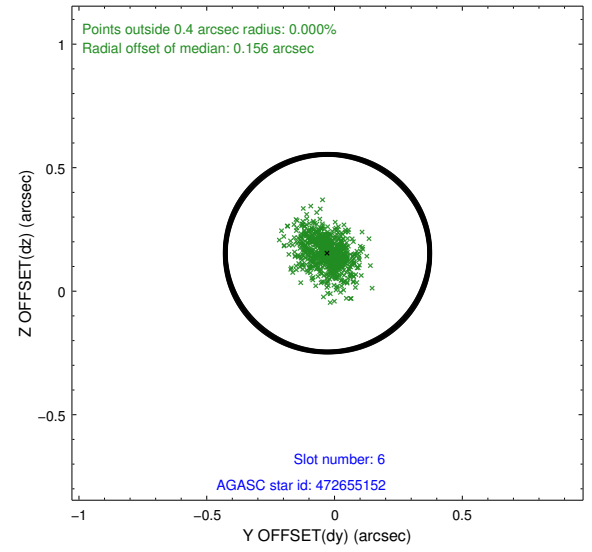
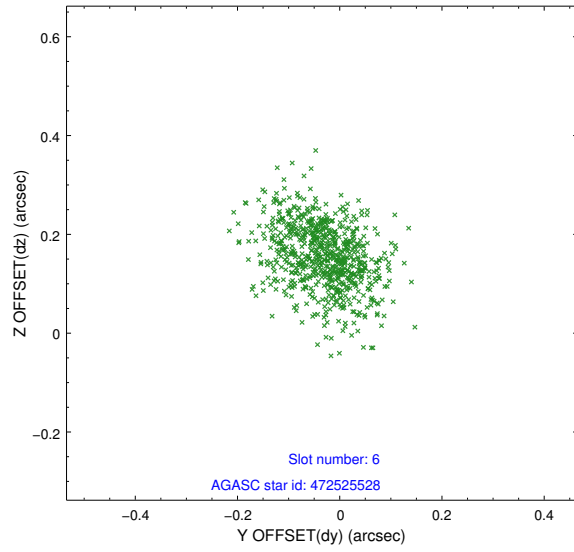
## 2.4.2 Slot 4



### 2.4.3 Slot 5

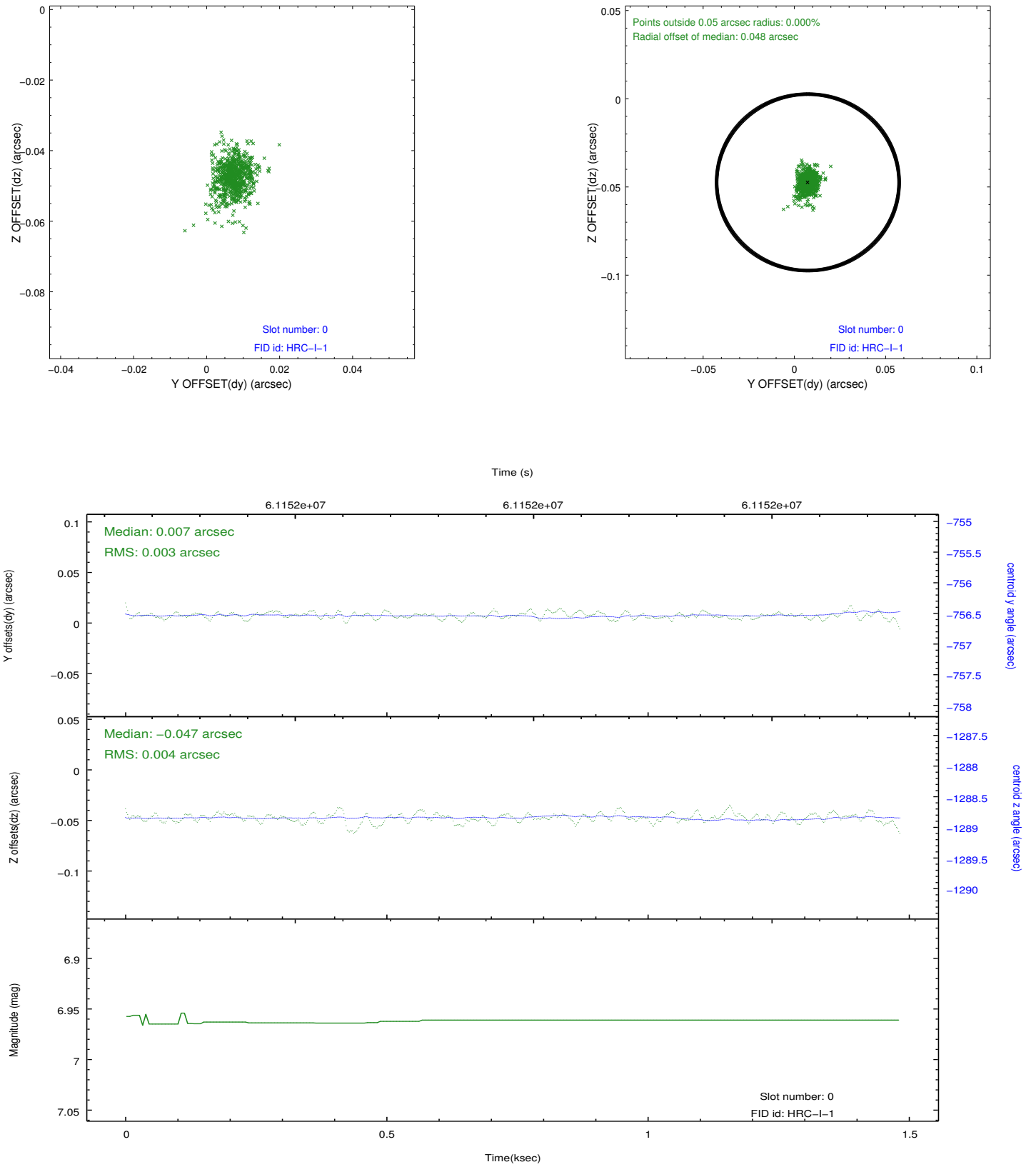


## 2.4.4 Slot 6

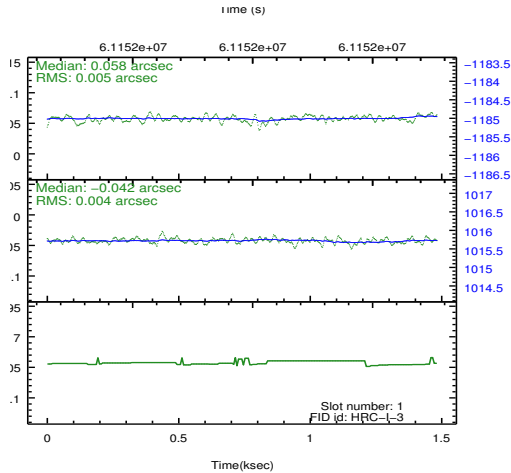
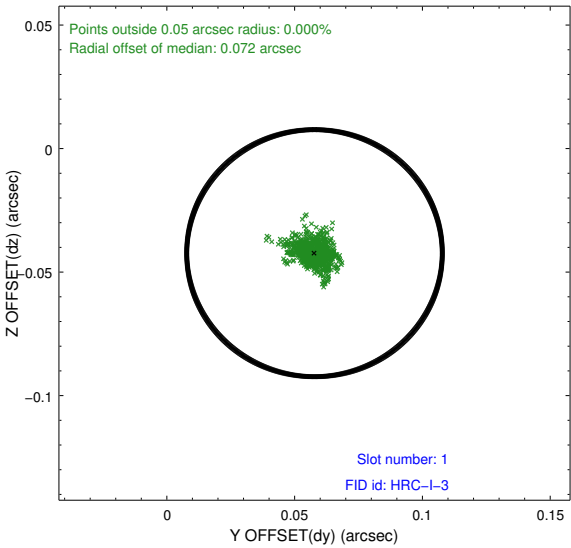
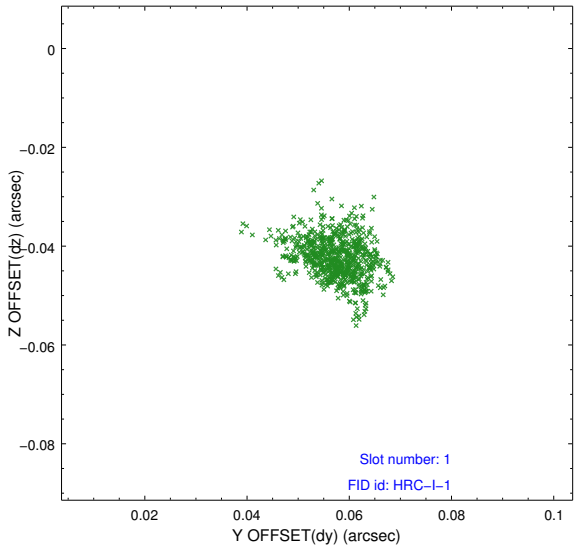


## 2.5 FID Slots

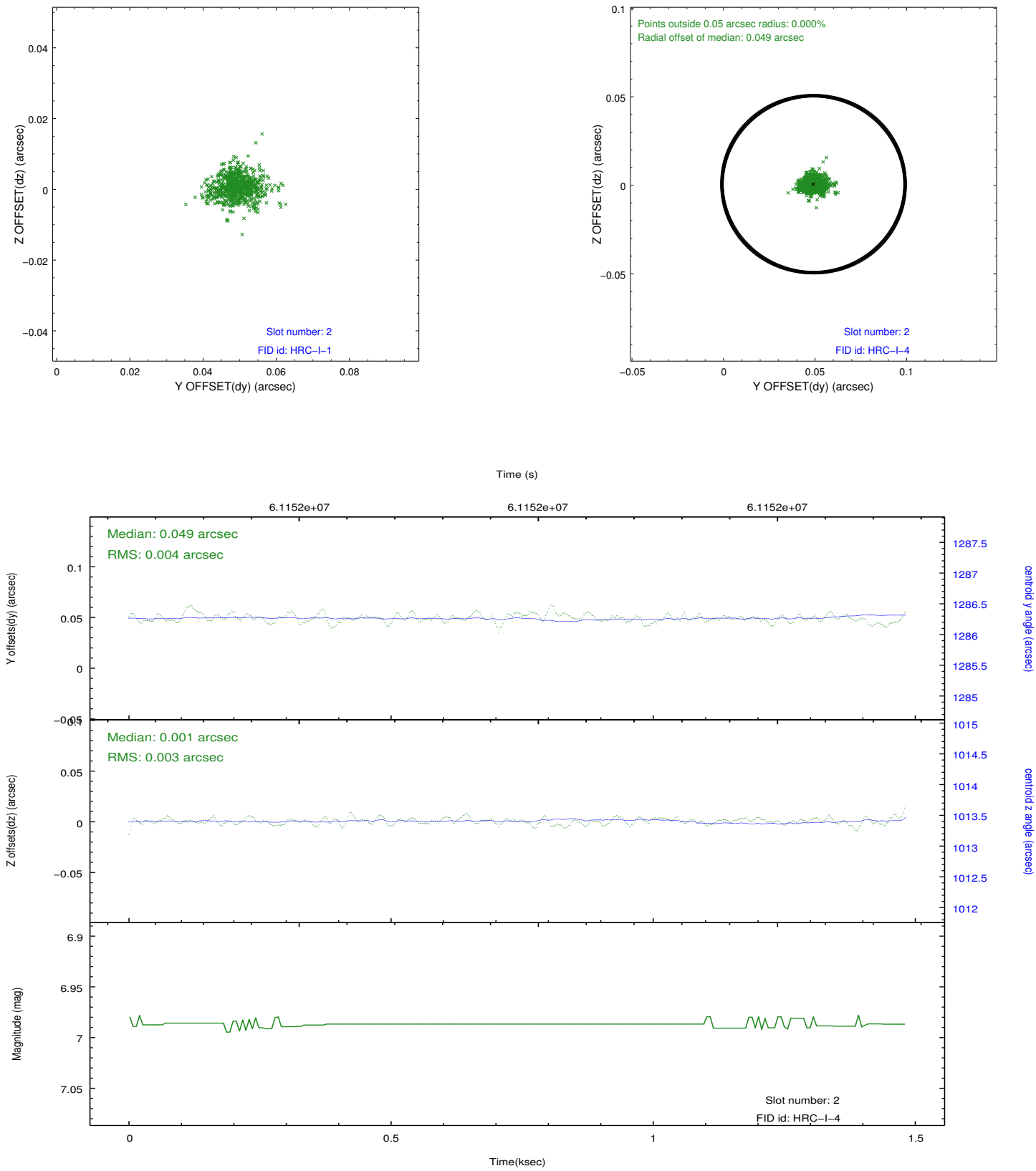
### 2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



### 3 Point Sources

# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2009.11.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.211

## A.2 Comments

HRC-I cal: ARLac for image blur