

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 13086 - L2 Version 4  
Chandra X-Ray Center

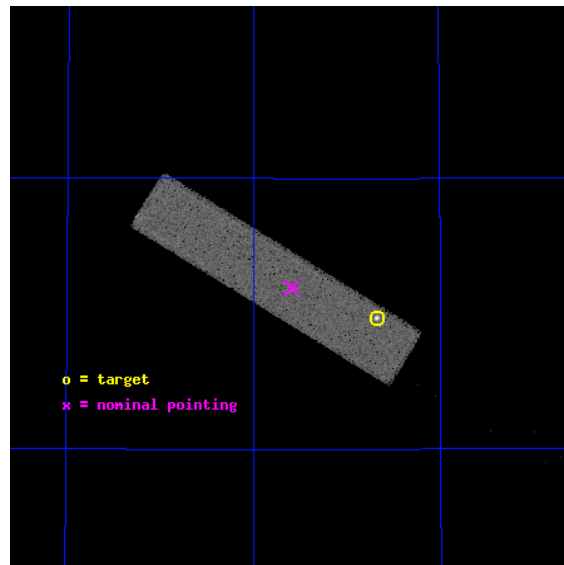
L2 Processing Date : Aug 9 2012

## 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

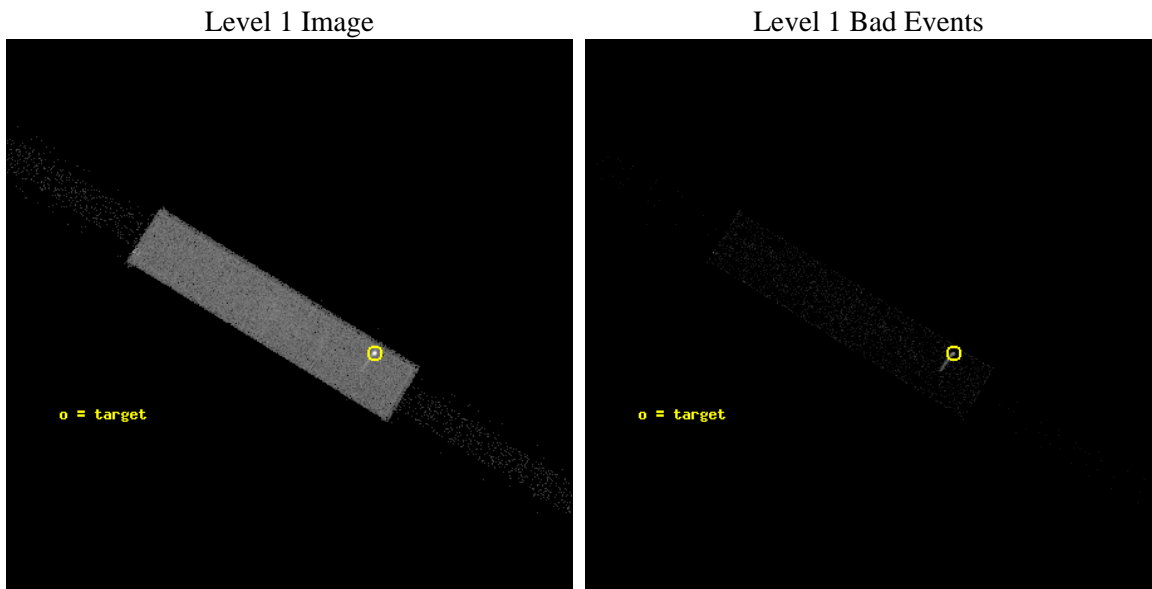
seq_num	291005	Sequence number
obs_id	13086	Observation id
title	AO-12 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.39721944314	Nominal RA [deg]
dec_nom	45.798595843495	Nominal Dec [deg]
roll_nom	211.28037858514	Nominal Roll [deg]
revision	4	Processing version of data
ontime	1149.2813103199	[s]
livetime	1141.2650584581	Ontime multiplied by DTCOR
l2events	59403	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	1149.2813103199	[s]
caldbver	4.5.1.1	&#160	l1events	92877	Number of level 1 events
date	2012-08-10T02:41:23	Date and time of file creation			
revision	4	Processing version of data			

### 2.1.3 Events

Level 1 Events

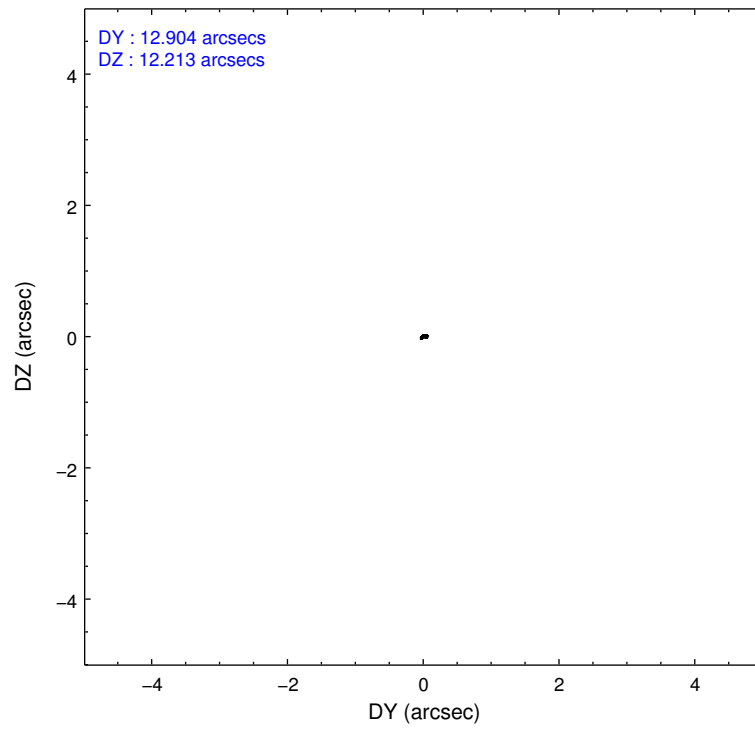
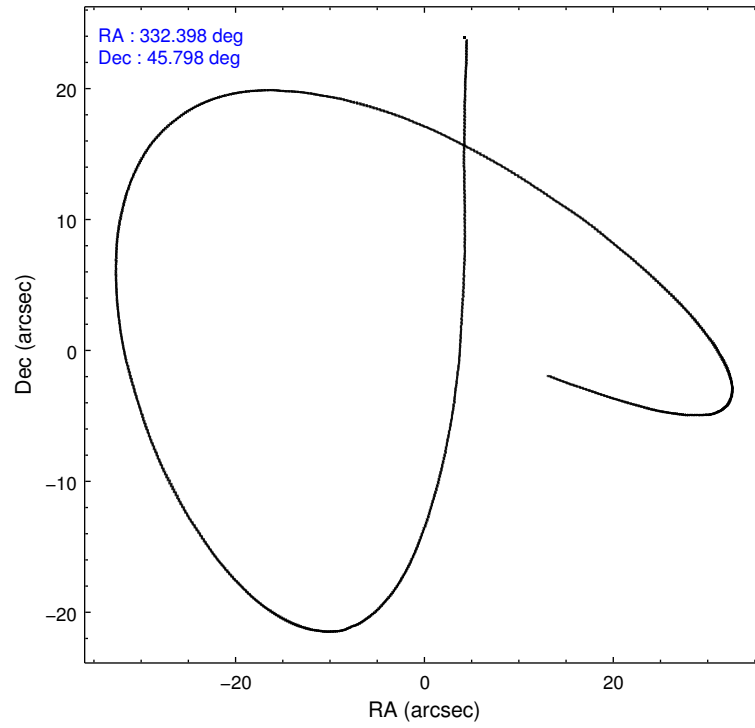
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	852	91188	837
rejected events	852	21195	821
rejected %	100%	23%	98%

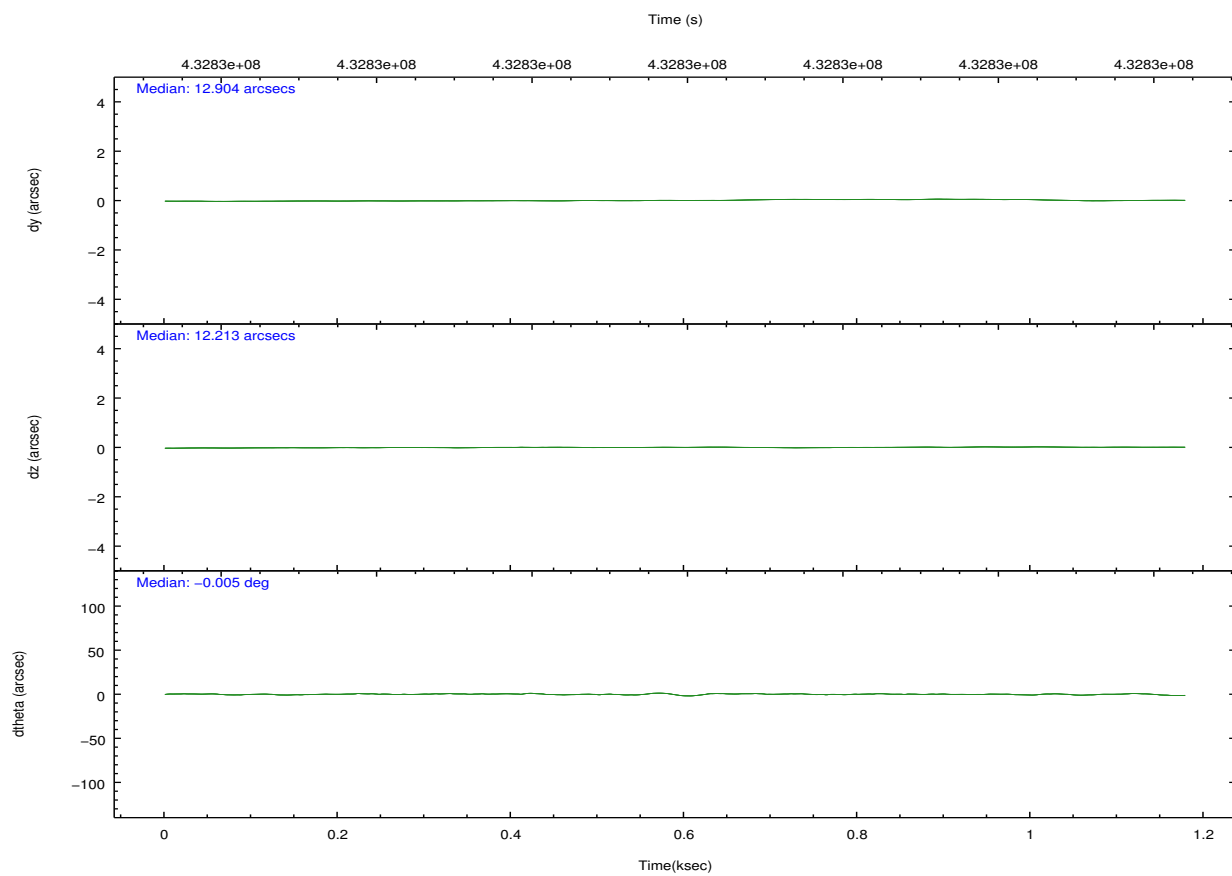
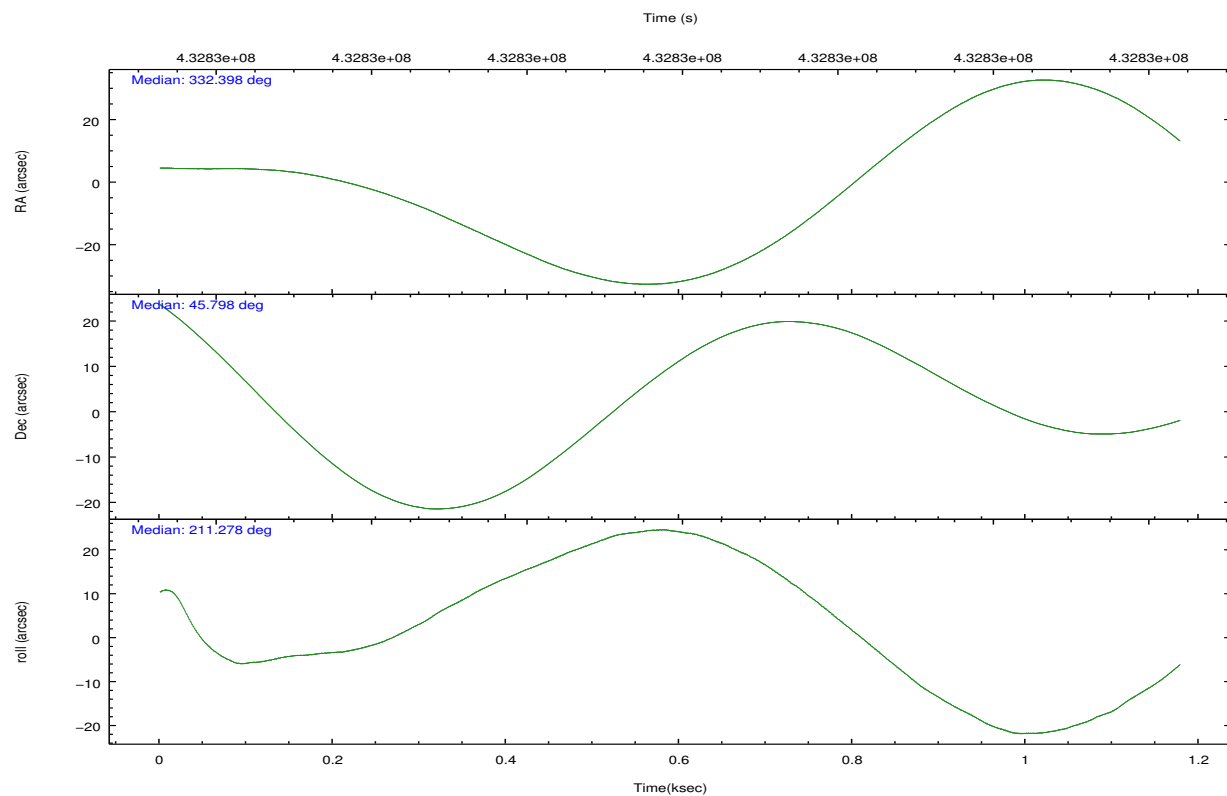
## 2.2 Compared Parameters

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	332.414147	332.3972194431441
[deg] Pointing Dec	45.825106	45.79859584349483
[deg] Pointing Roll	211.200851	211.2803785851358
[mm] SIM focus pos	-1.533336	-1.526339935833849
[mm] SIM defocus	7.710433287538843e-07	0.006996703570447904
[mm] SIM translation stage pos	250.455976	250.4635187648994
[mm] SIM translation stage offset	0	-0.007540371344731511
[s] Observation start time (MET)	432829172.184000	432828796.25077
Observation start date	2011-09-19T14:18:26	2011-09-19T14:13:16
[s] Observation end time (MET)	432830172.184000	432830306.07585
Observation end date	2011-09-19T14:35:06	2011-09-19T14:38:26

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

## 2.3 Aspect





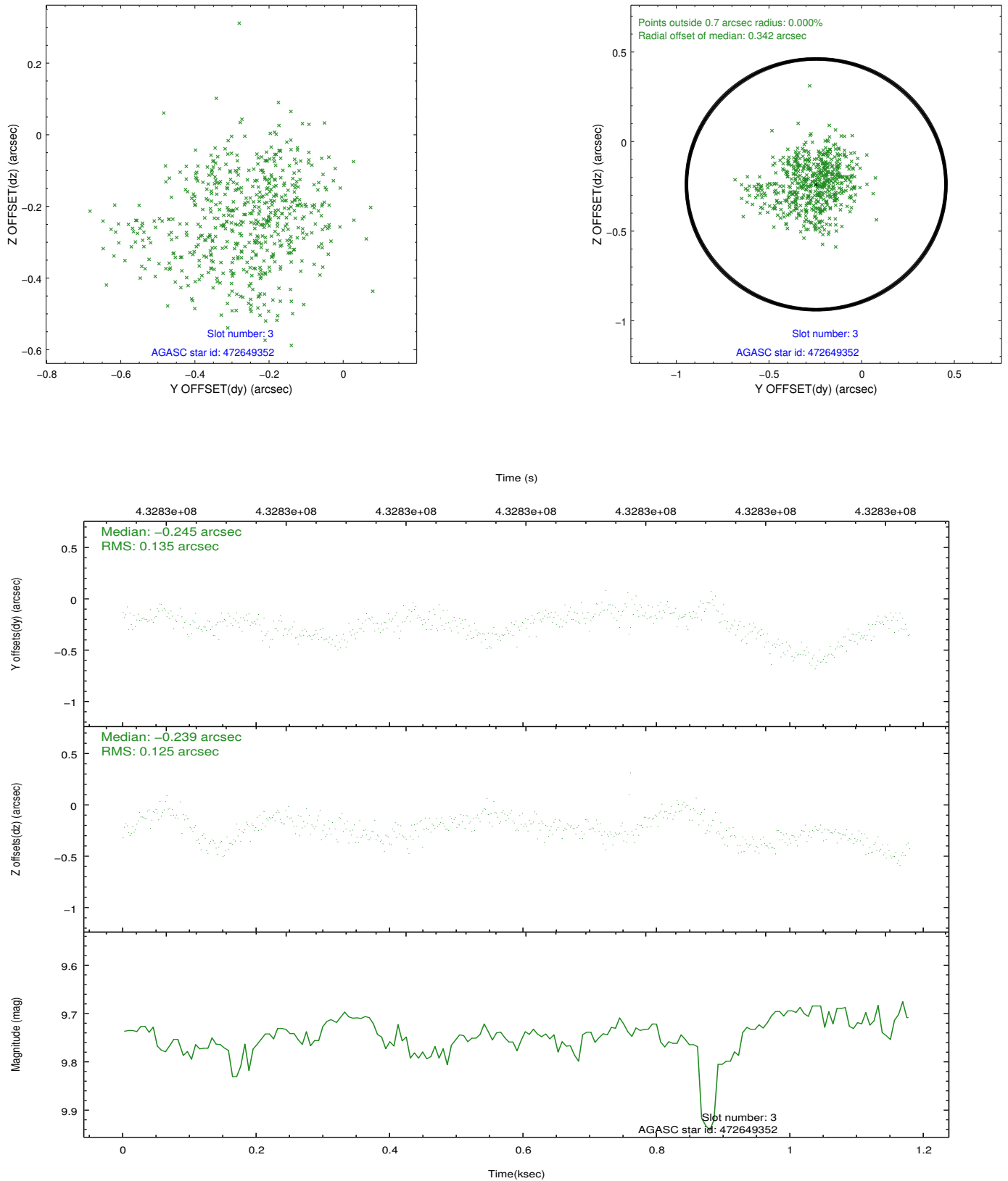
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	6.99	288	0.054	-0.118	0.006	0.012	0.000000	0.000000	-1167.27	-460.90
1	FID	HRC-S-2	6.98	288	0.265	-0.126	0.004	0.007	0.000000	0.000000	1228.55	-455.10
2	FID	HRC-S-3	6.99	288	0.070	-0.059	0.006	0.012	0.000000	0.000000	-1165.73	567.09
3	GUIDE	472649352	9.74	574	-0.245	-0.239	0.195	0.321	332.034169	45.325407	1754.41	1035.25
4	GUIDE	472654568	9.40	575	-0.027	0.040	0.160	0.266	332.194449	45.063576	1902.00	2053.69
5	GUIDE	472663080	9.40	575	0.141	0.038	0.125	0.192	332.652741	46.473840	-1711.55	-1691.55
6	GUIDE	472665256	9.01	573	0.114	0.036	0.094	0.155	332.808125	46.195041	-1532.48	-638.86
7	GUIDE	472659736	9.36	575	0.049	0.105	0.127	0.199	332.848312	46.590160	-2348.39	-1806.19

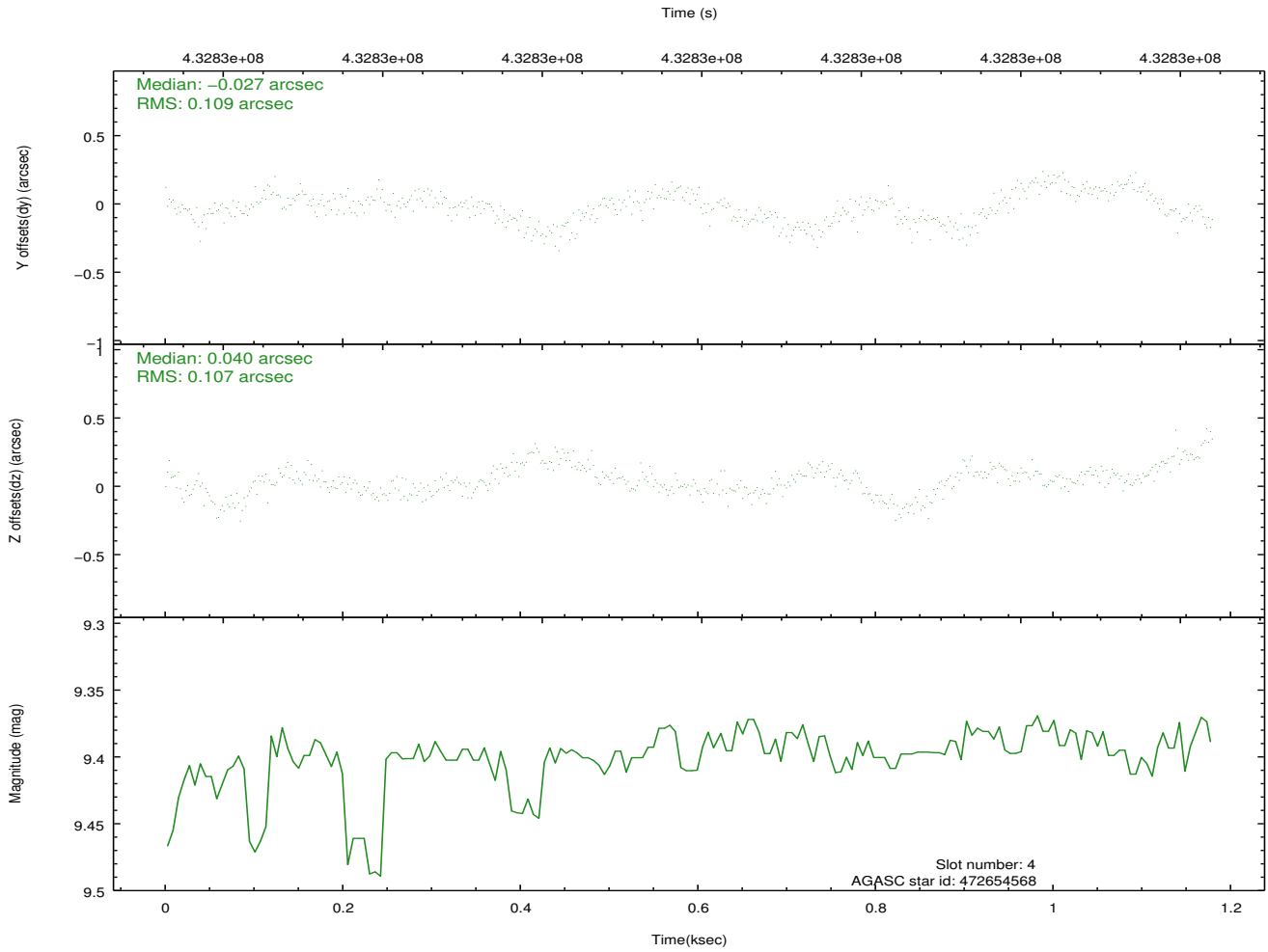
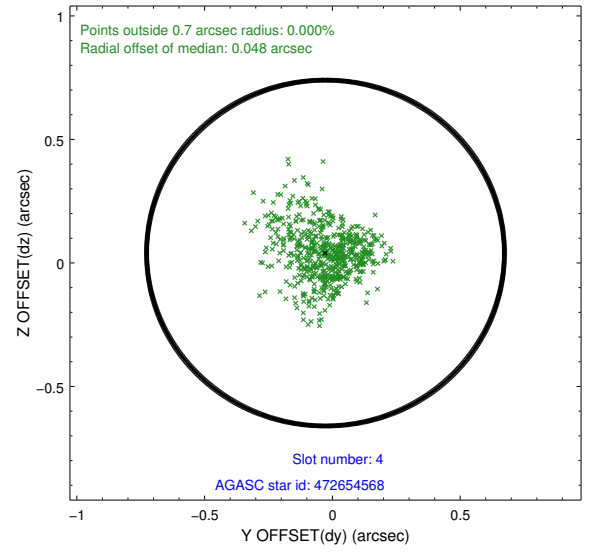
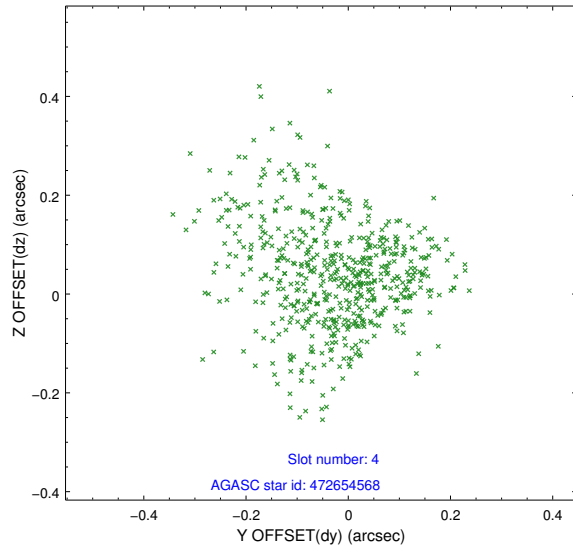


## 2.4 Star Slots

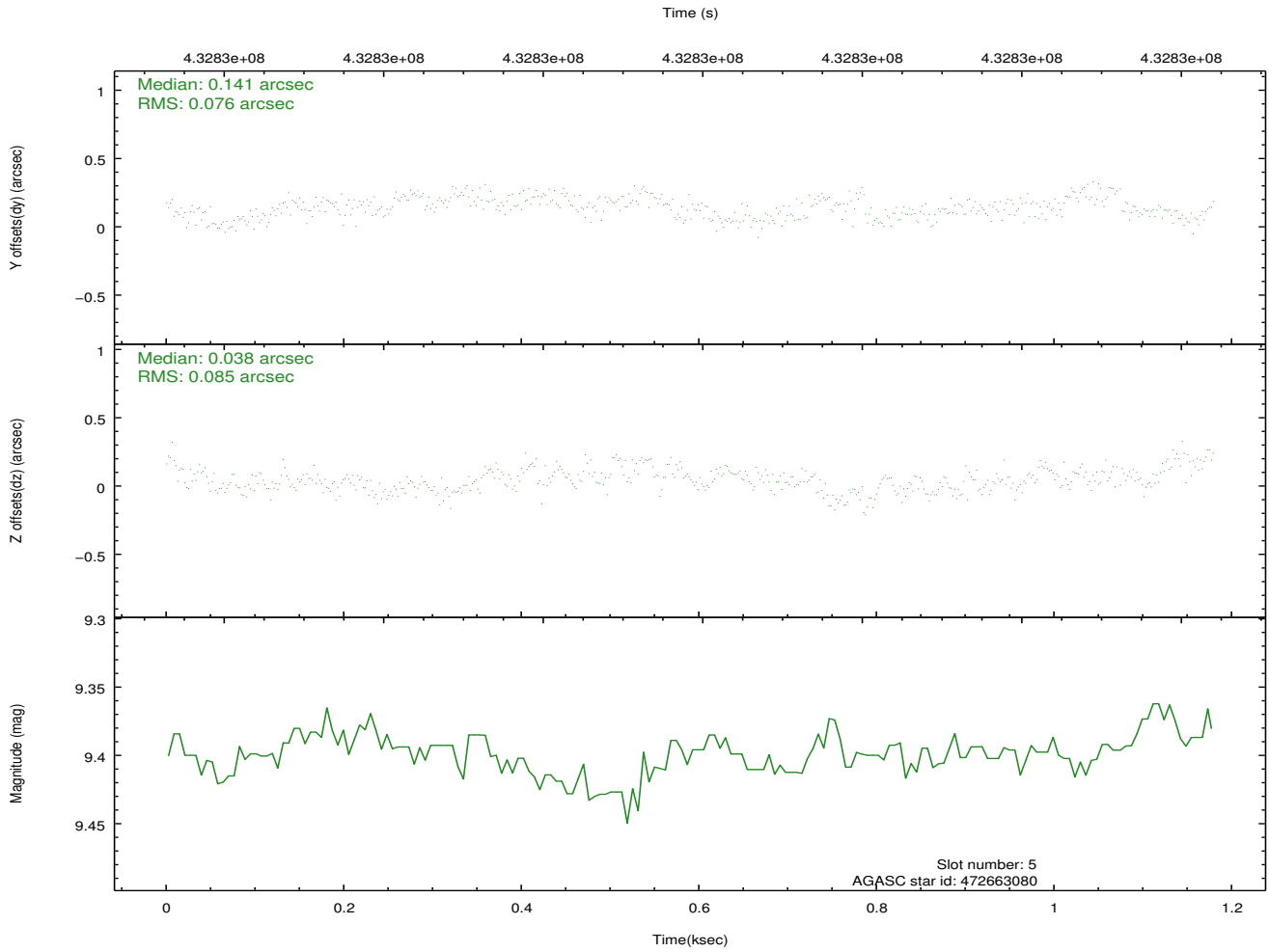
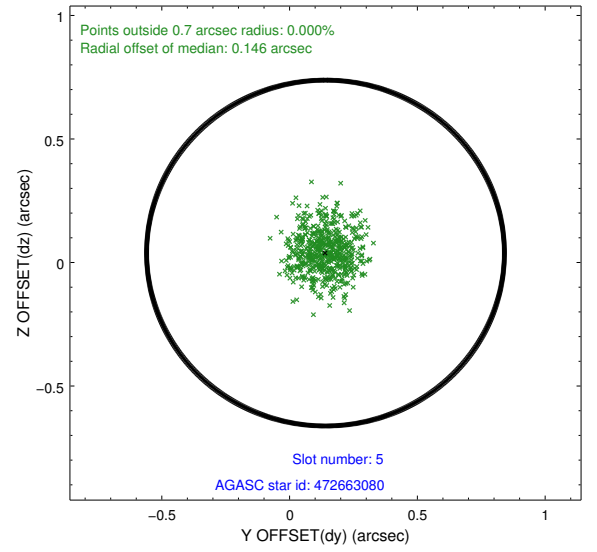
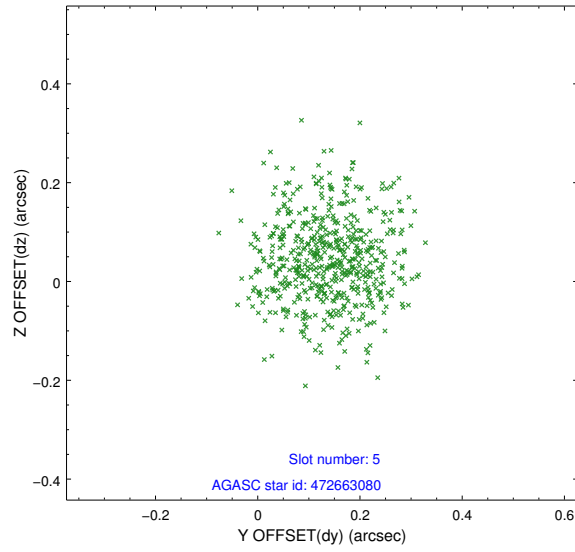
### 2.4.1 Slot 3



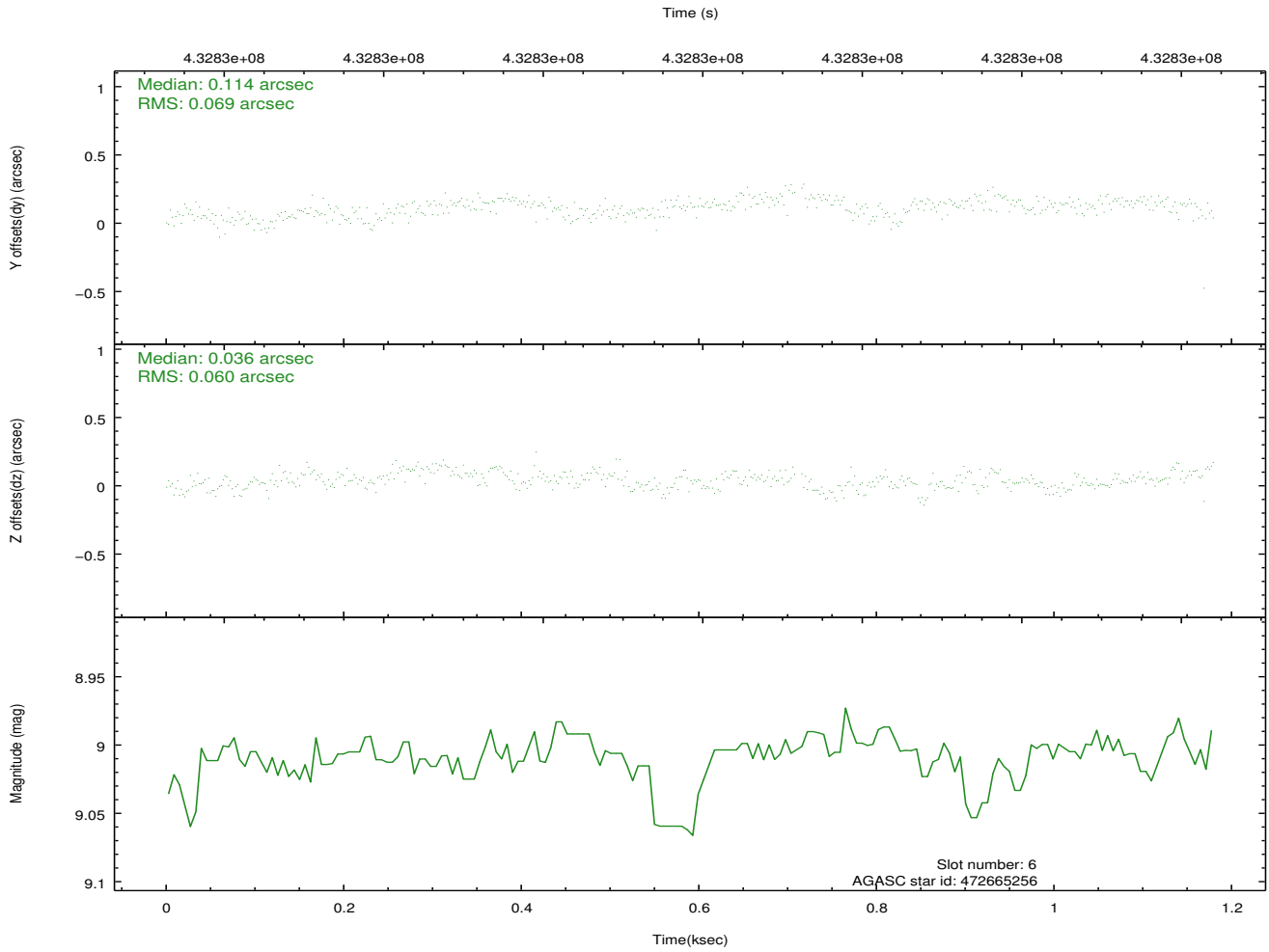
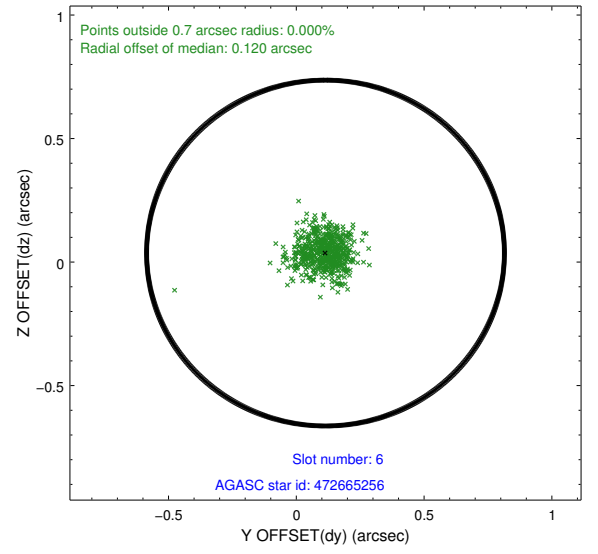
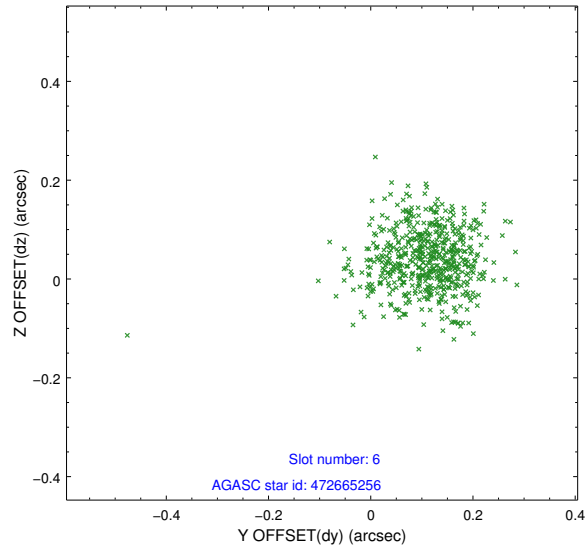
## 2.4.2 Slot 4



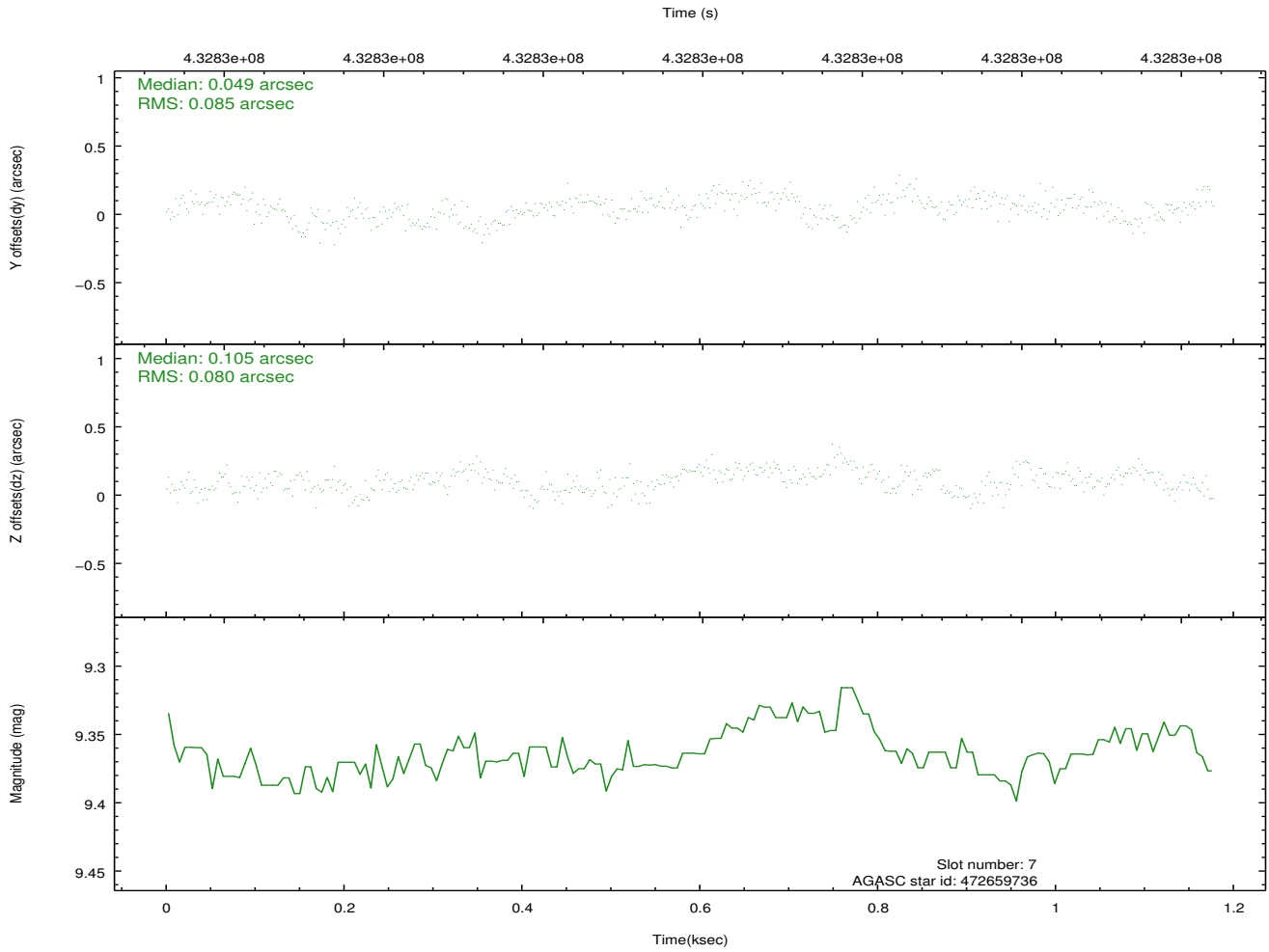
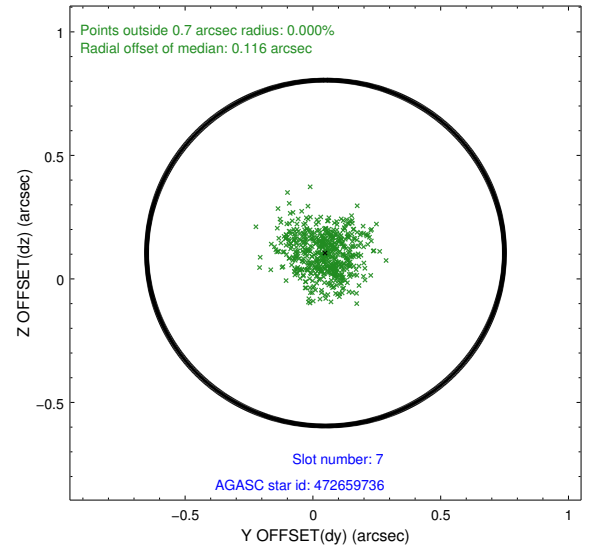
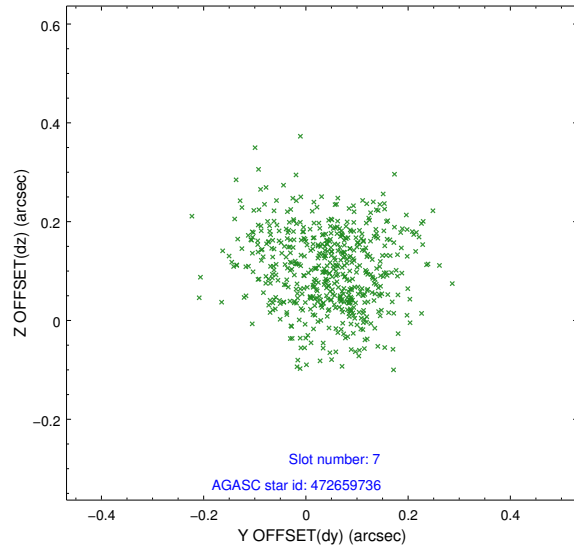
### 2.4.3 Slot 5



## 2.4.4 Slot 6

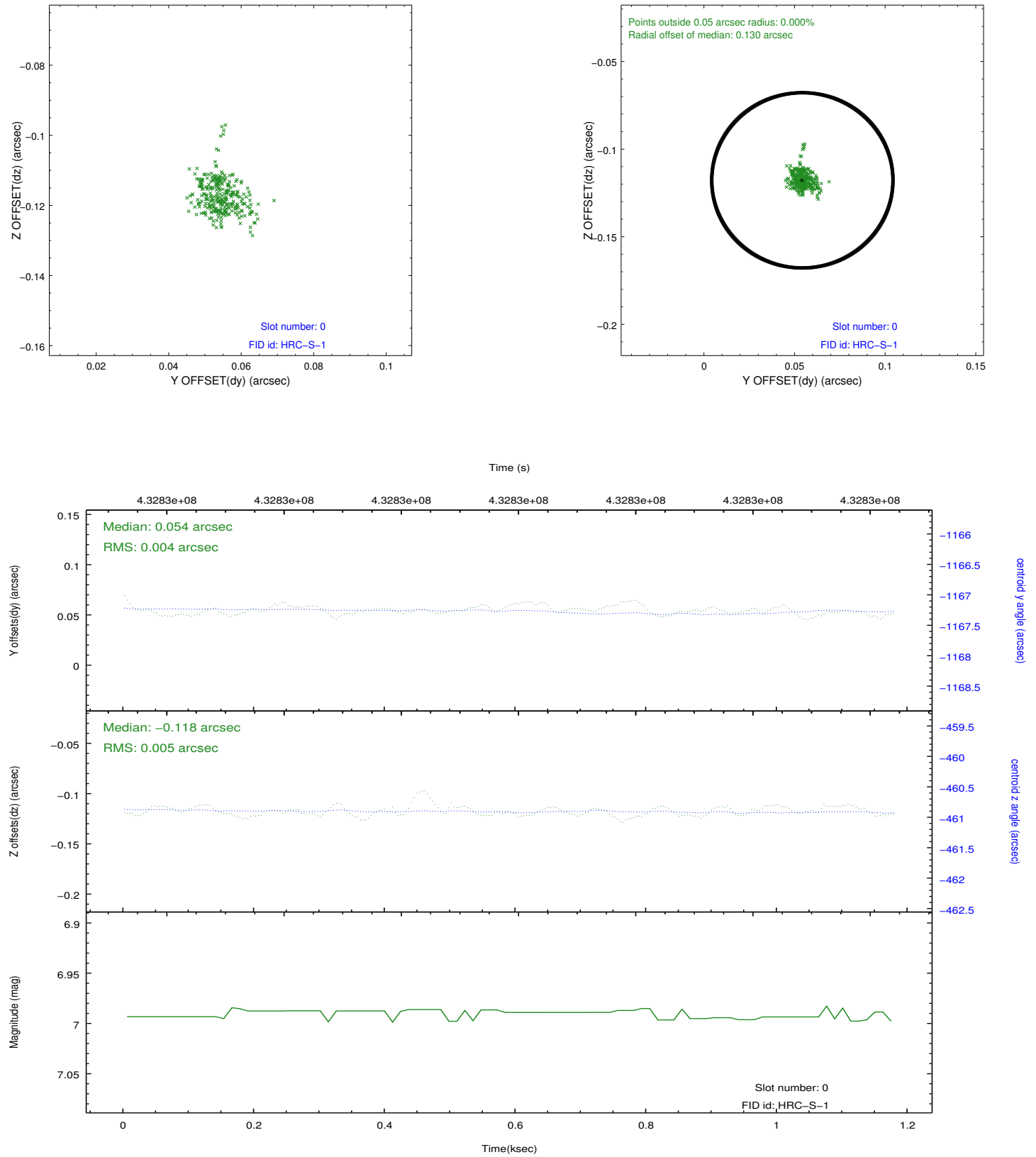


## 2.4.5 Slot 7

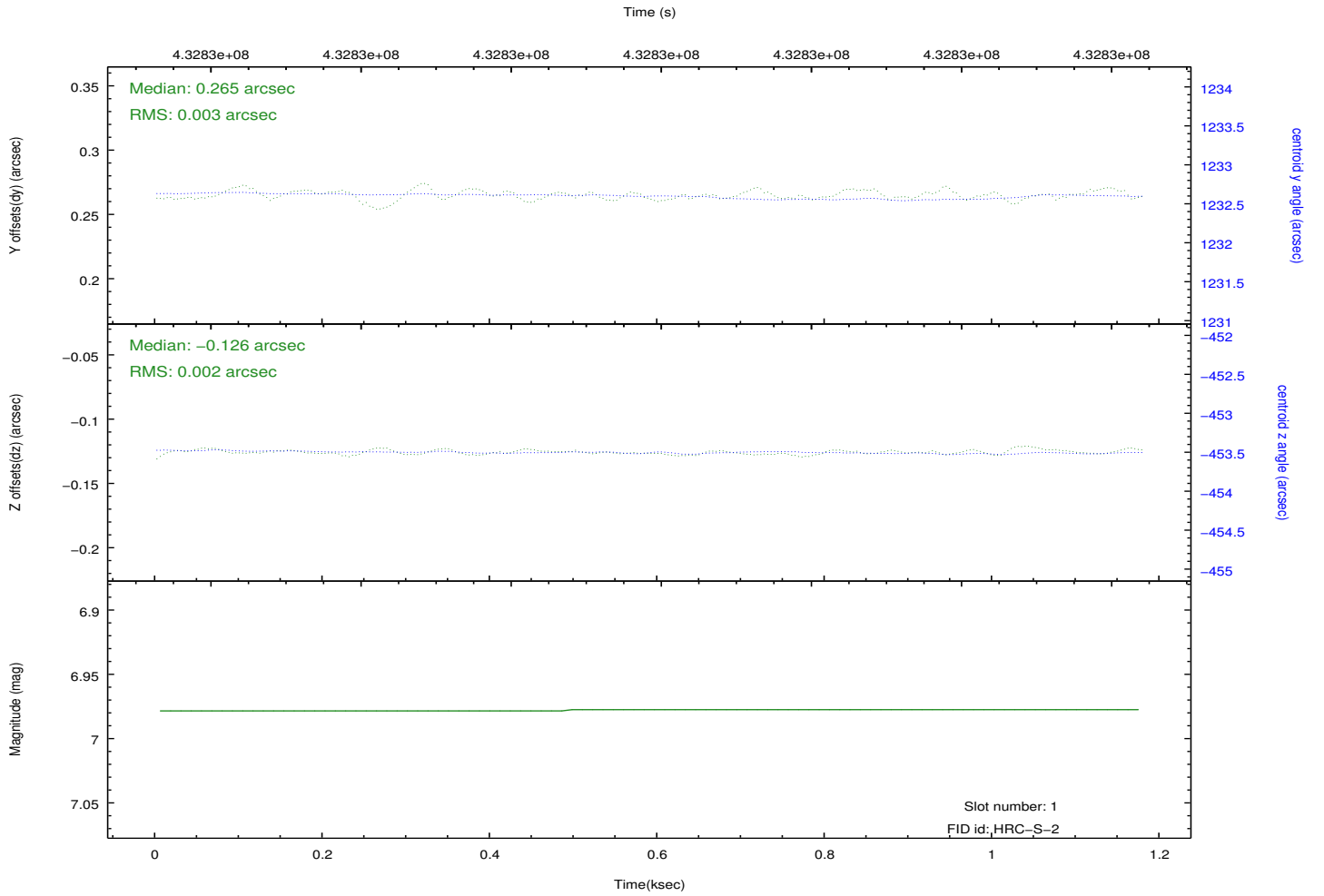
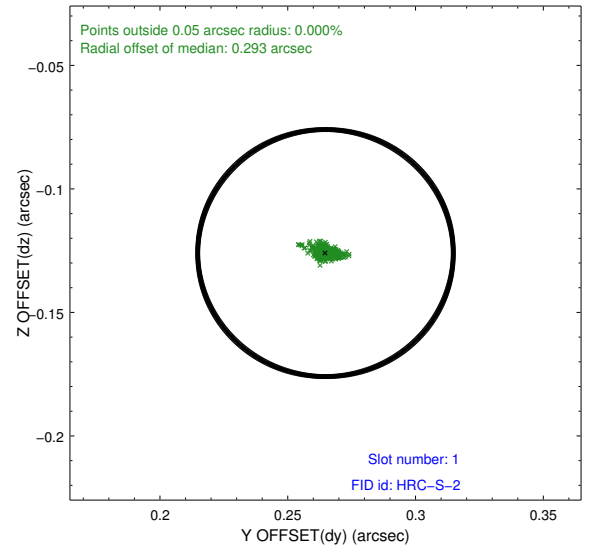
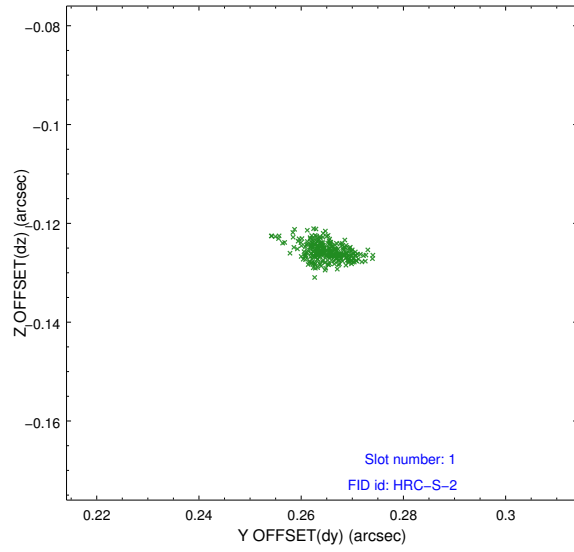


## 2.5 FID Slots

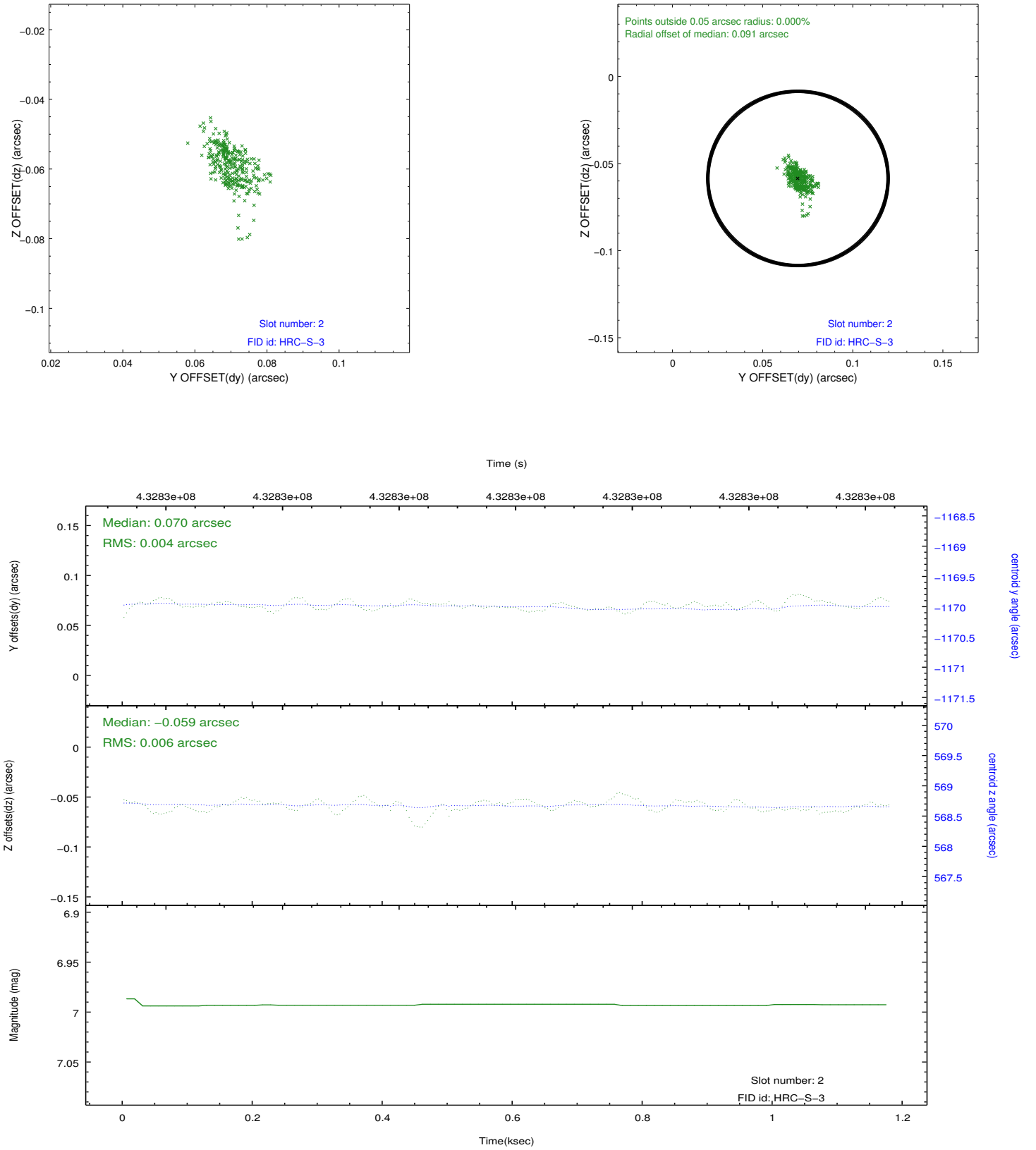
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2





## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.08.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1490250602365

### A.2 Comments