

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 6494 - L2 Version 3  
Chandra X-Ray Center

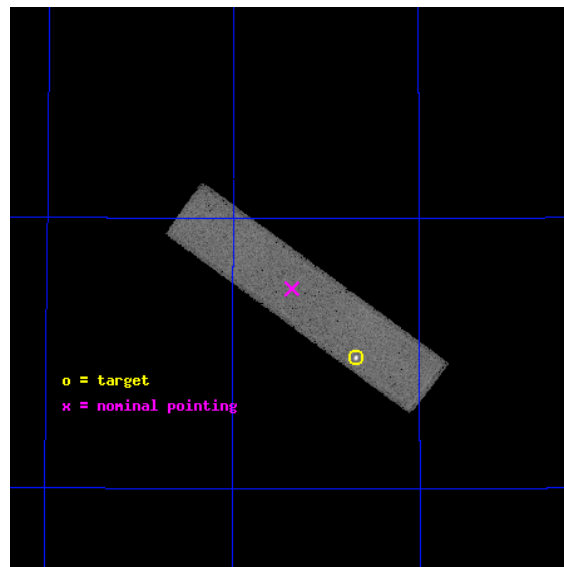
L2 Processing Date : Aug 11 2012

## 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

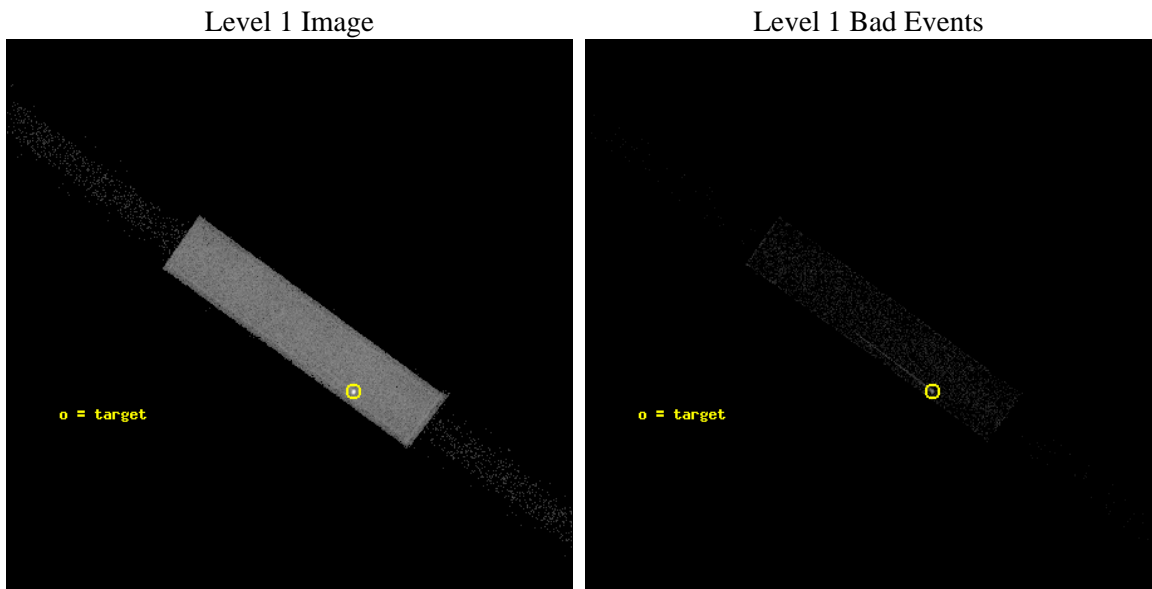
seq_num	290587	Sequence number
obs_id	6494	Observation id
title	AO7 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.34170509361	Nominal RA [deg]
dec_nom	45.869853656259	Nominal Dec [deg]
roll_nom	35.85916683768	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1157.4813038707	[s]
livetime	1146.67530393	Ontime multiplied by DTCOR
l2events	79566	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	1157.4813038707	[s]
caldbver	4.5.1.1	&#160	l1events	122263	Number of level 1 events
date	2012-08-11T05:38:44	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

Level 1 Events

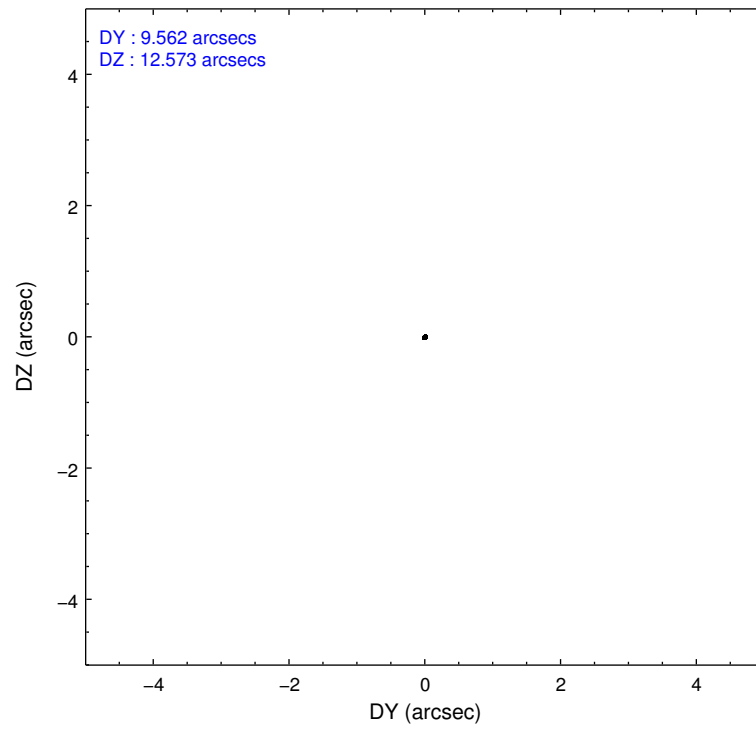
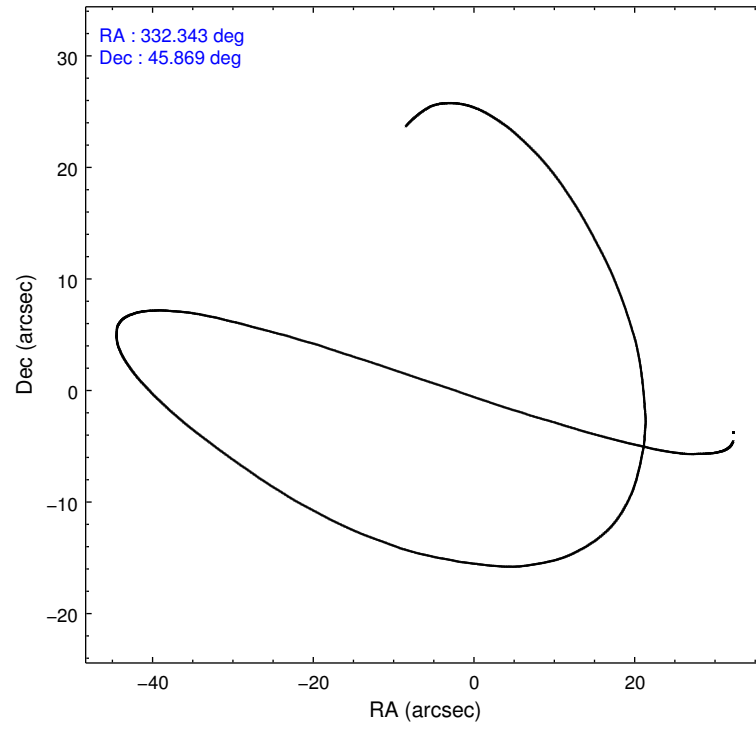
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	951	120315	997
rejected events	951	27796	997
rejected %	100%	23%	100%

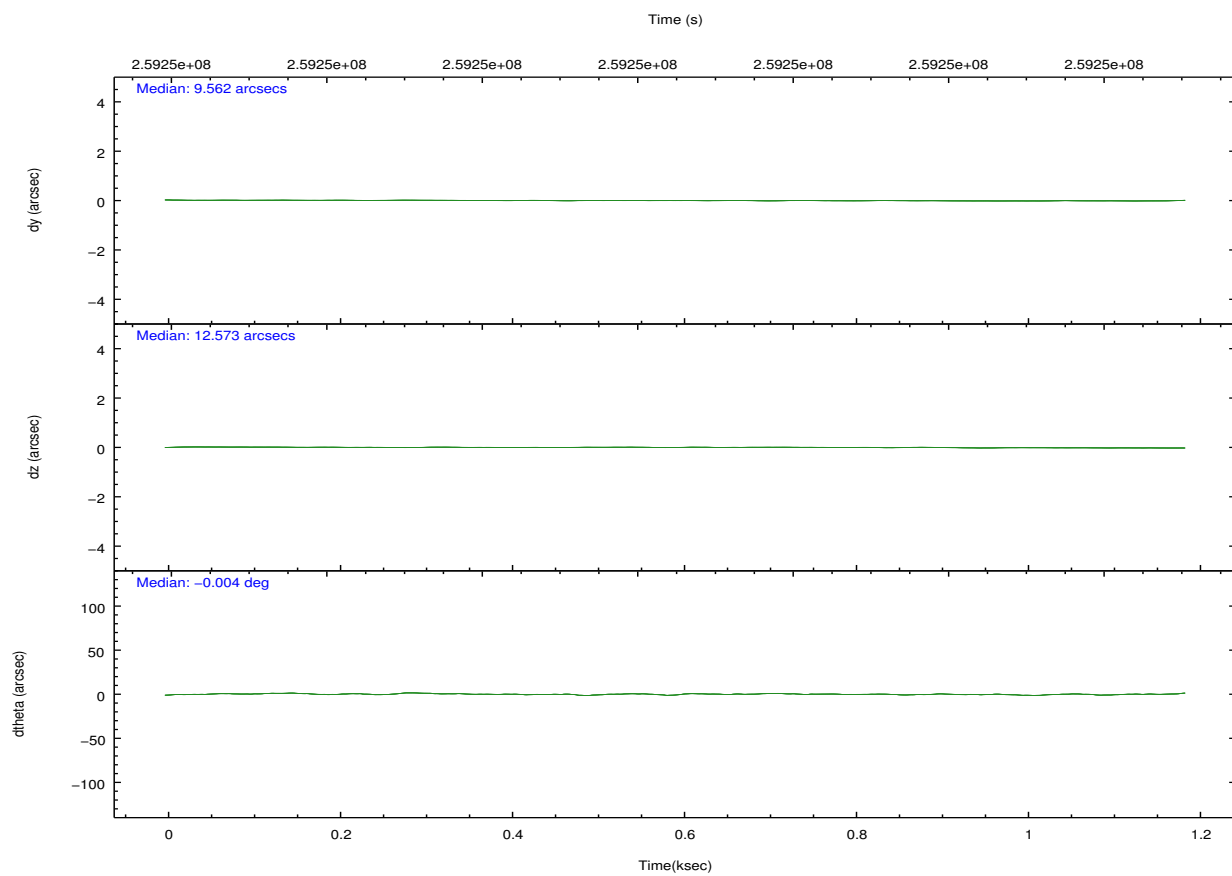
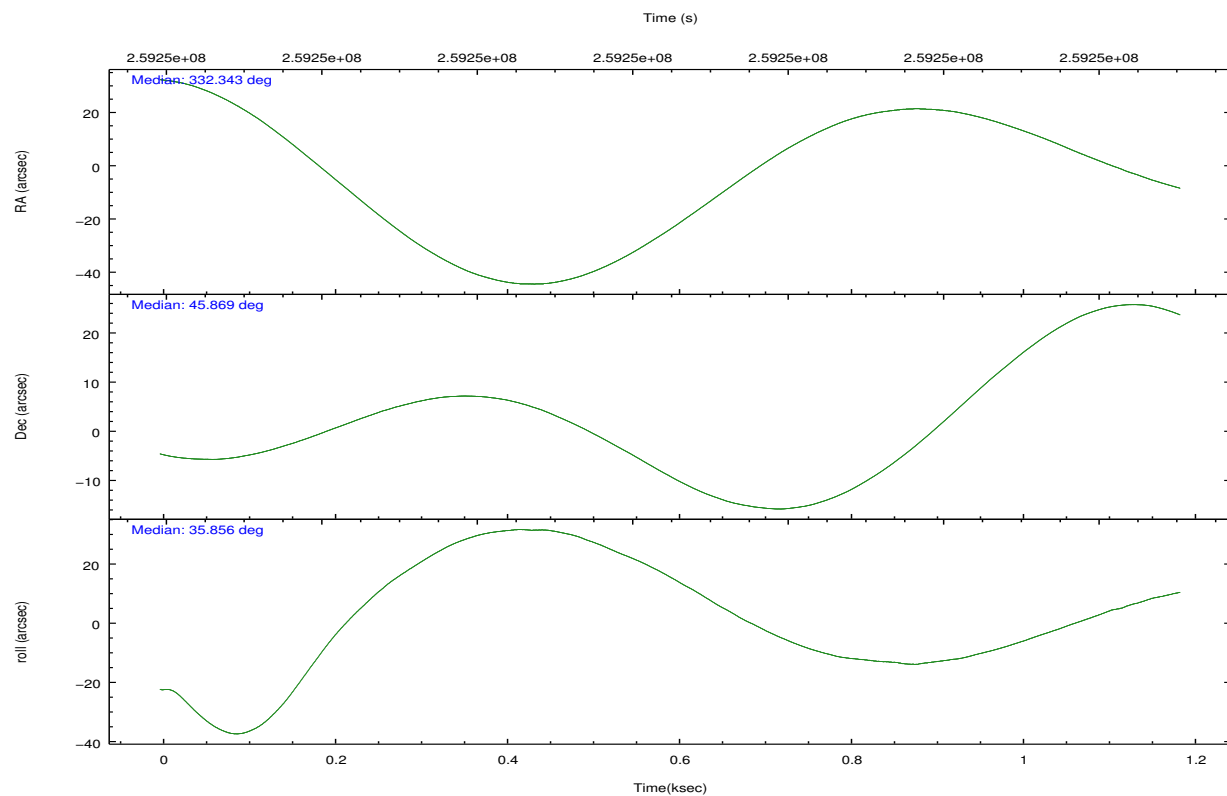
## 2.2 Compared Parameters

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	332.326419	332.3417050936089
[deg] Pointing Dec	45.842930	45.86985365625887
[deg] Pointing Roll	35.802862	35.85916683768036
[mm] SIM focus pos	-1.533336	-1.526339935833849
[mm] SIM defocus	7.710433287538843e-07	0.006996703570447904
[mm] SIM translation stage pos	250.455976	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	259247639.184000	259247263.03099
Observation start date	2006-03-20T13:12:54	2006-03-20T13:07:43
[s] Observation end time (MET)	259248639.184000	259248773.36856
Observation end date	2006-03-20T13:29:34	2006-03-20T13:32:53

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

## 2.3 Aspect





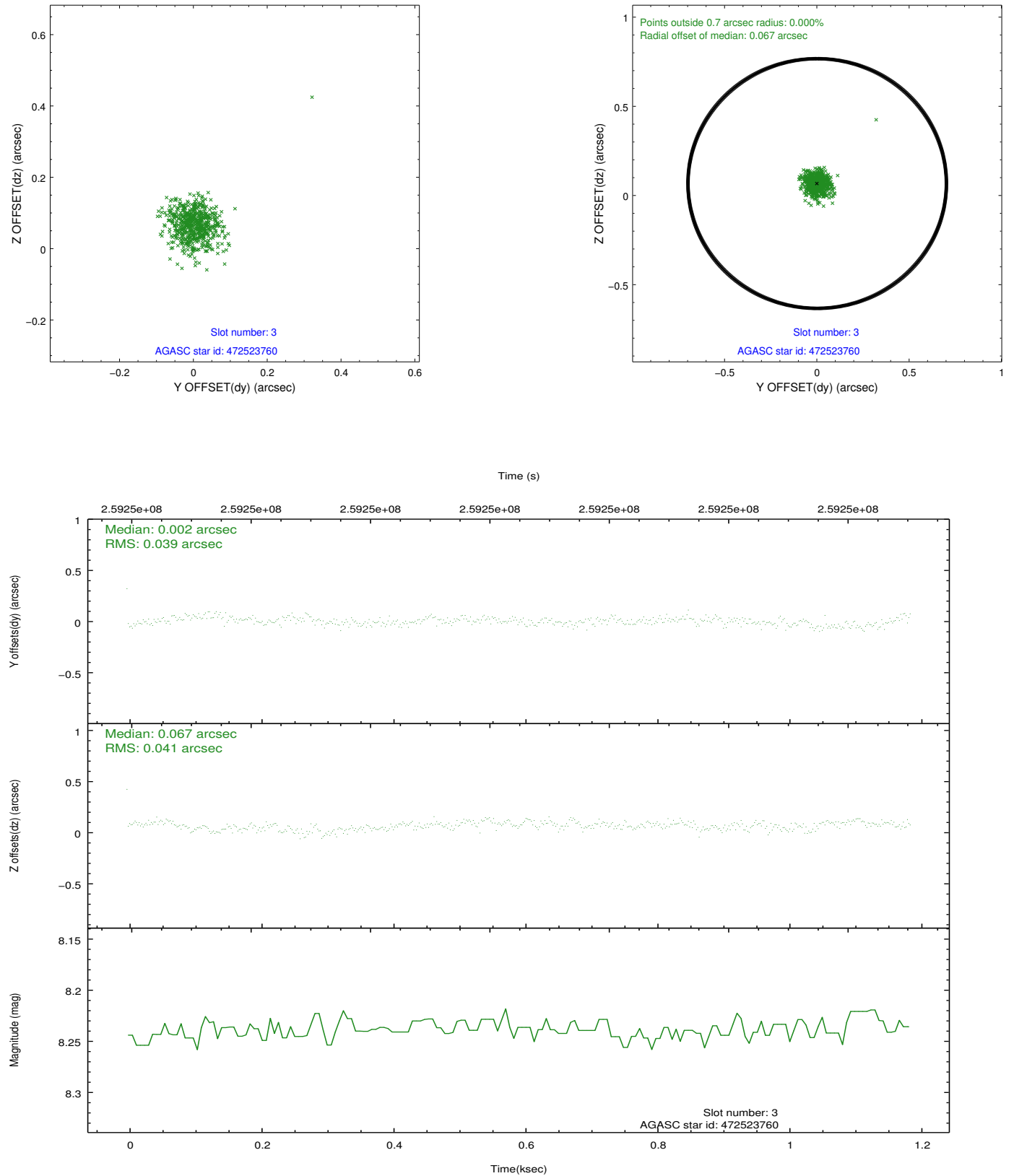
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.04	290	0.139	-0.134	0.008	0.012	0.000000	0.000000	-1163.74	-461.32
1	FID	HRC-S-2	7.04	290	0.130	-0.105	0.005	0.010	0.000000	0.000000	1231.89	-455.50
2	FID	HRC-S-3	7.05	290	0.121	-0.064	0.007	0.012	0.000000	0.000000	-1162.25	566.70
3	GUIDE	472523760	8.24	580	0.002	0.067	0.058	0.092	331.645363	45.403260	-2318.97	-270.87
4	GUIDE	472655152	9.43	575	0.213	0.122	0.107	0.181	332.504239	45.862991	399.26	-202.23
5	GUIDE	472663080	9.42	580	-0.125	-0.038	0.106	0.178	332.652741	46.473840	1985.25	1369.80
6	GUIDE	472665256	9.02	580	-0.097	-0.111	0.077	0.119	332.808125	46.195041	1719.42	331.04
7	GUIDE	472654568	9.43	579	0.013	-0.048	0.115	0.197	332.194449	45.063576	-1911.40	-2078.64

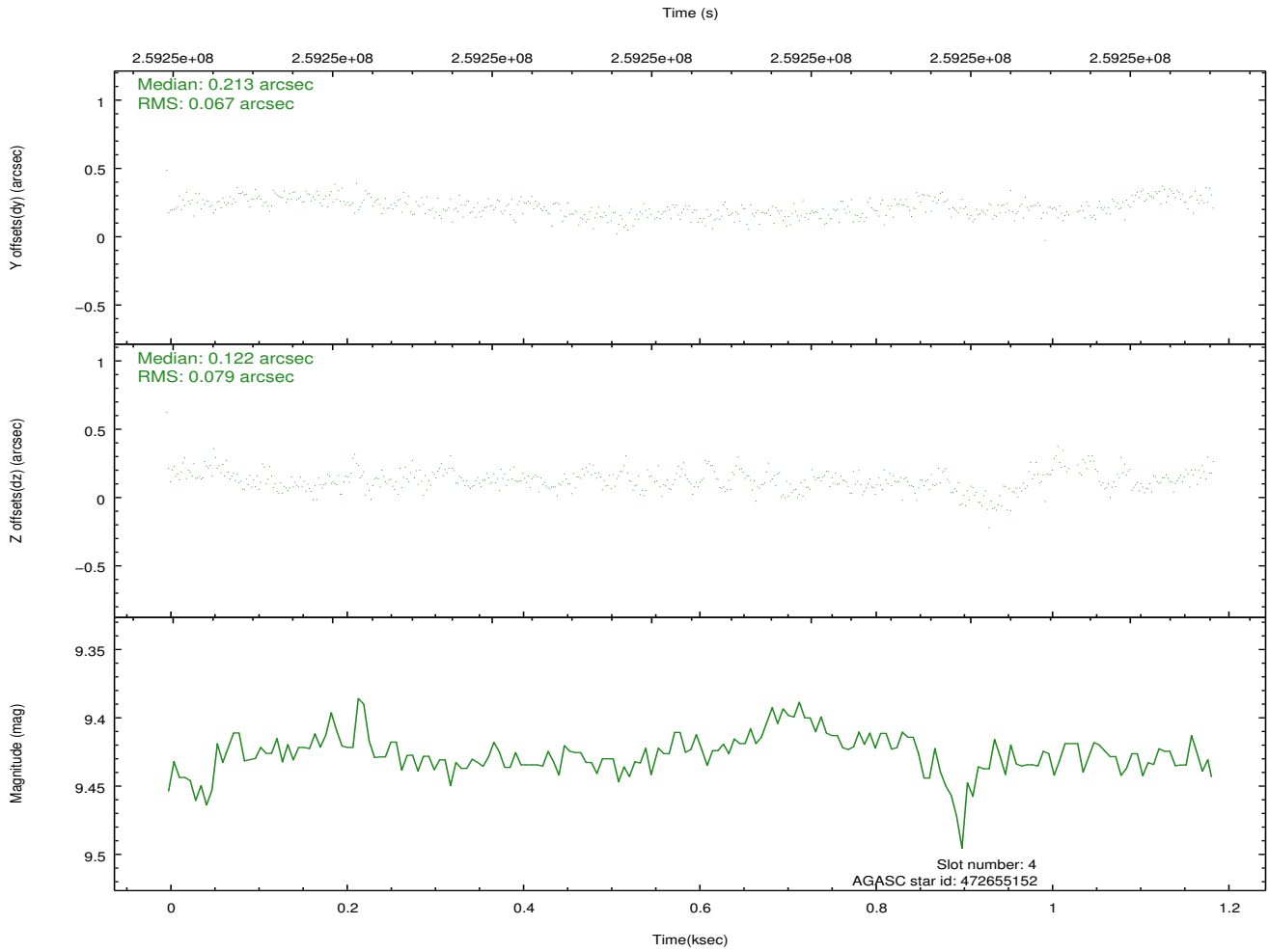
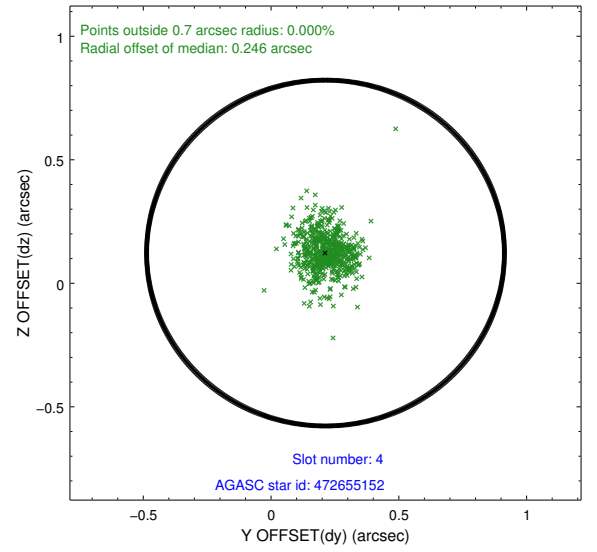
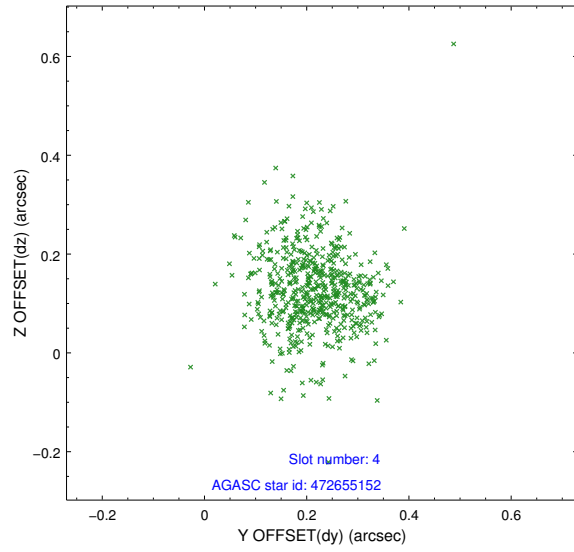


## 2.4 Star Slots

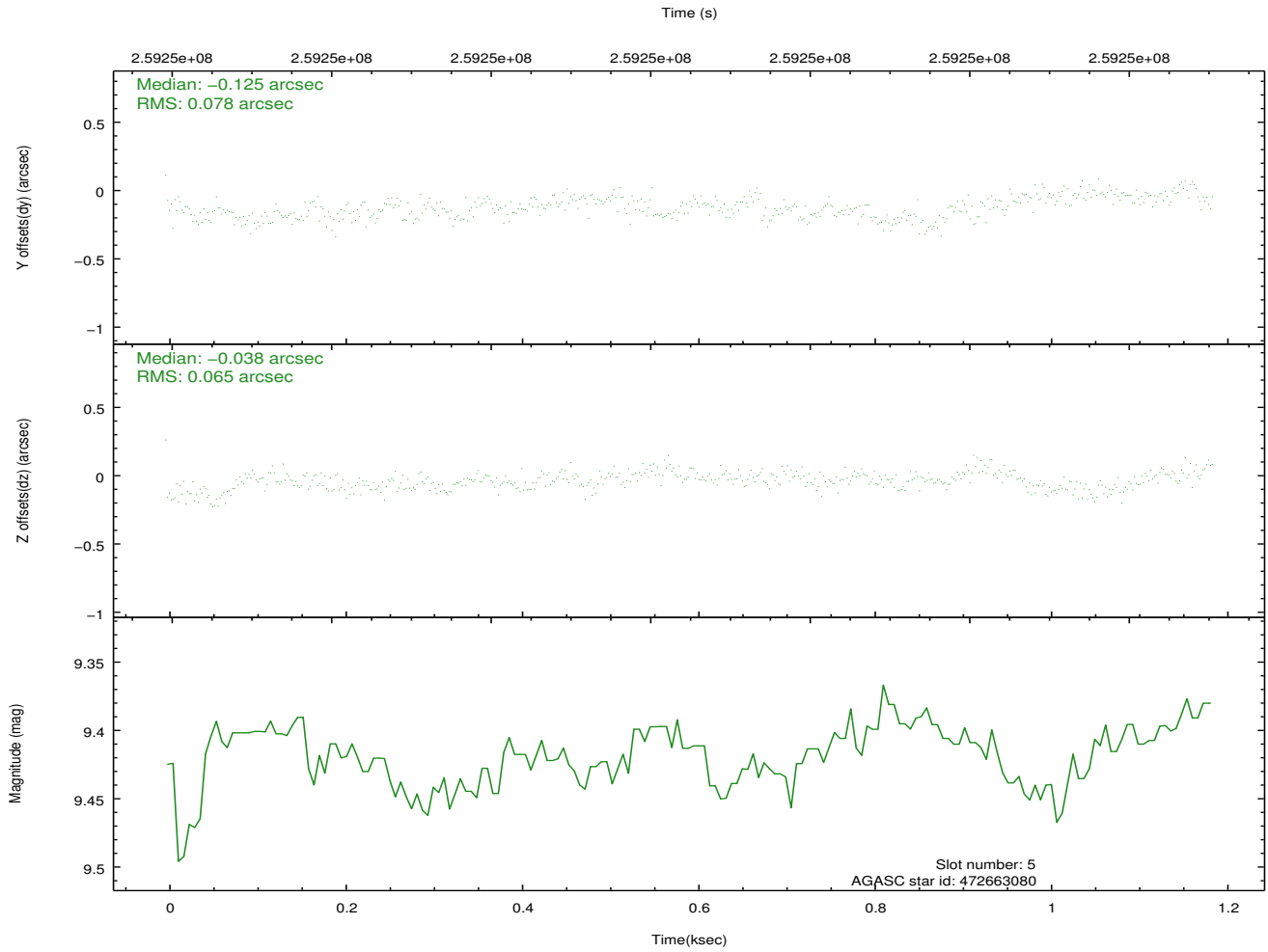
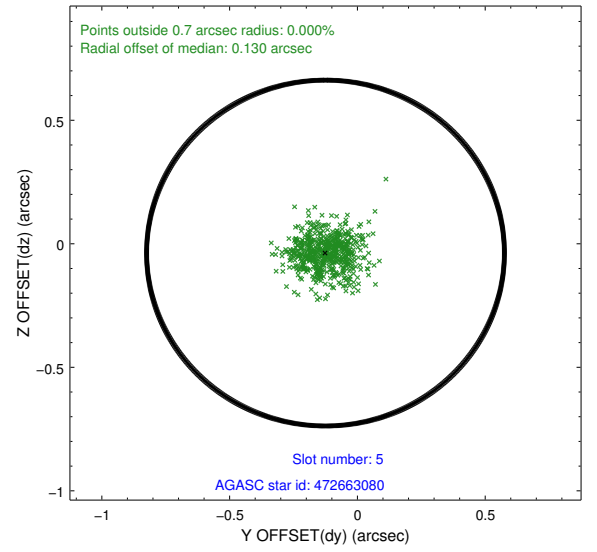
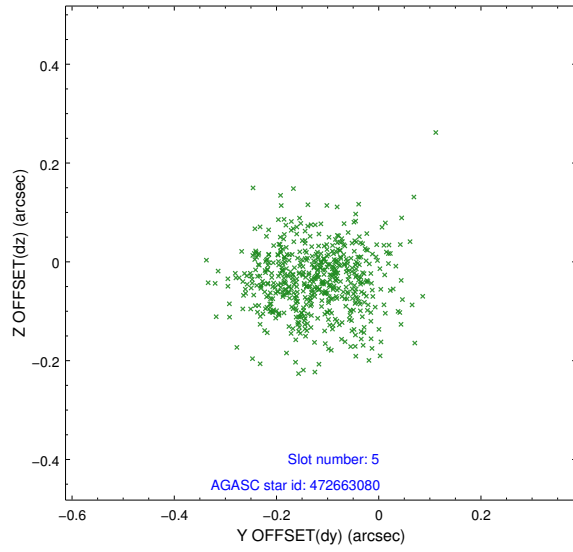
### 2.4.1 Slot 3



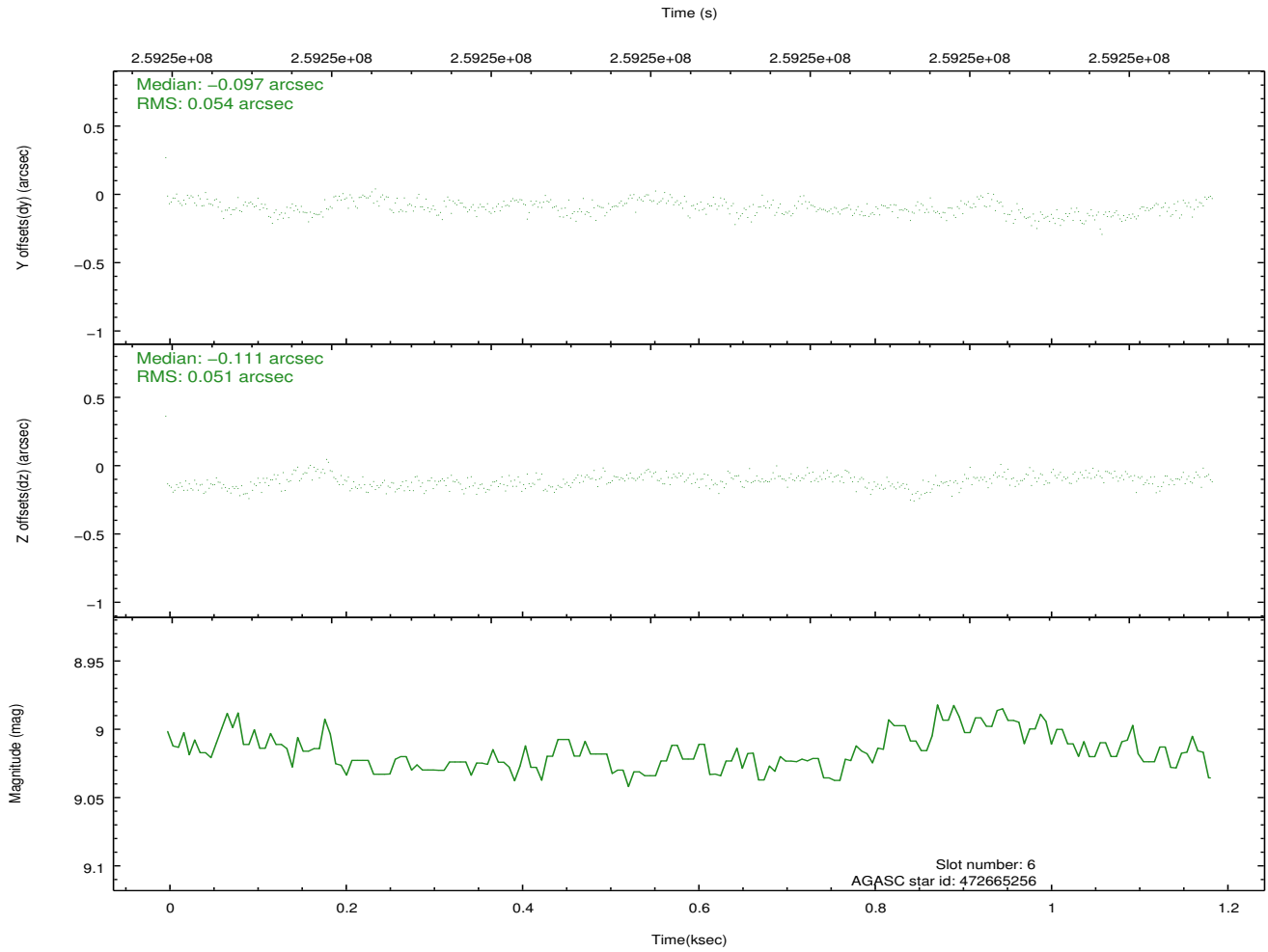
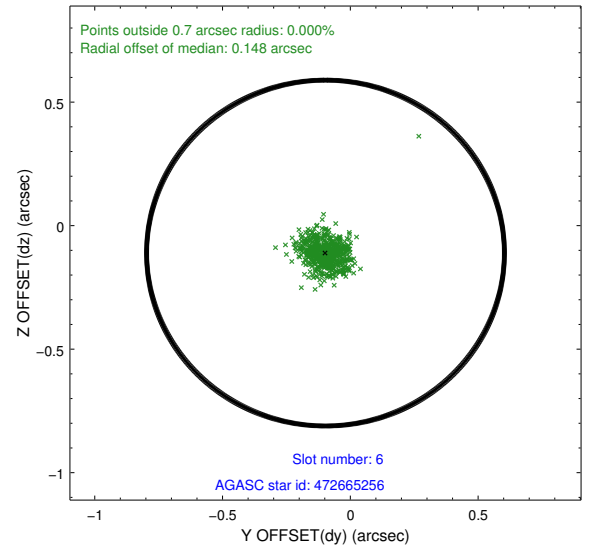
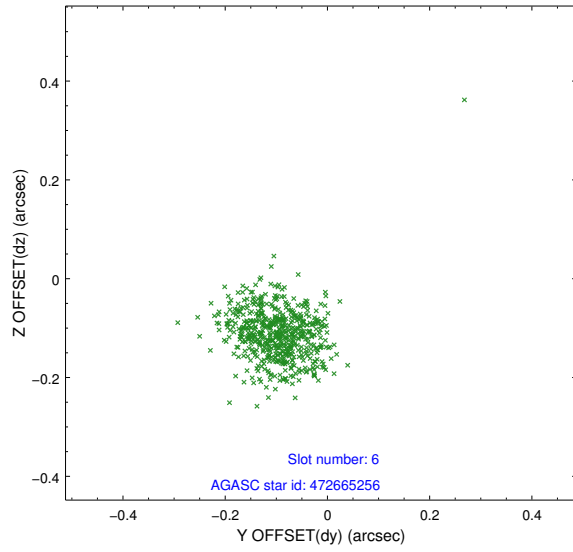
## 2.4.2 Slot 4



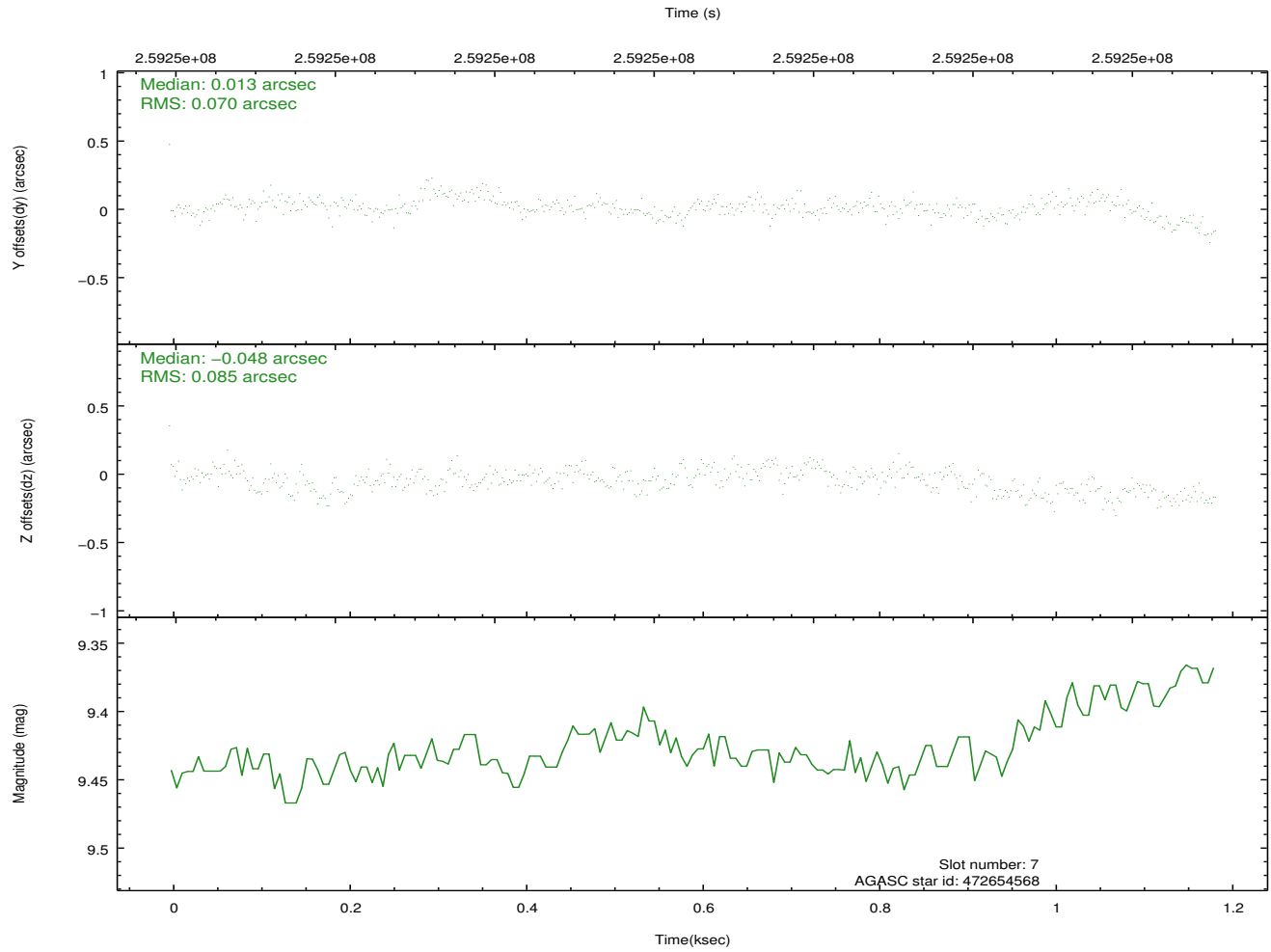
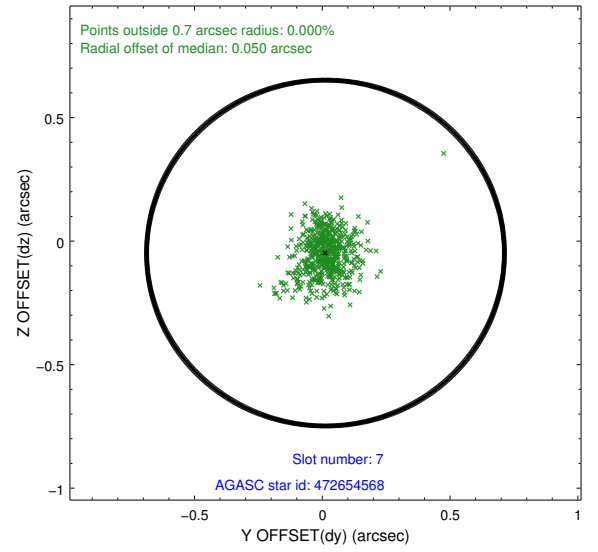
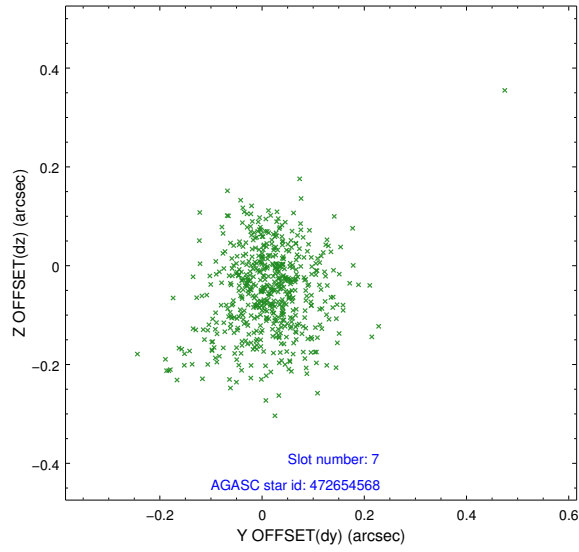
### 2.4.3 Slot 5



## 2.4.4 Slot 6

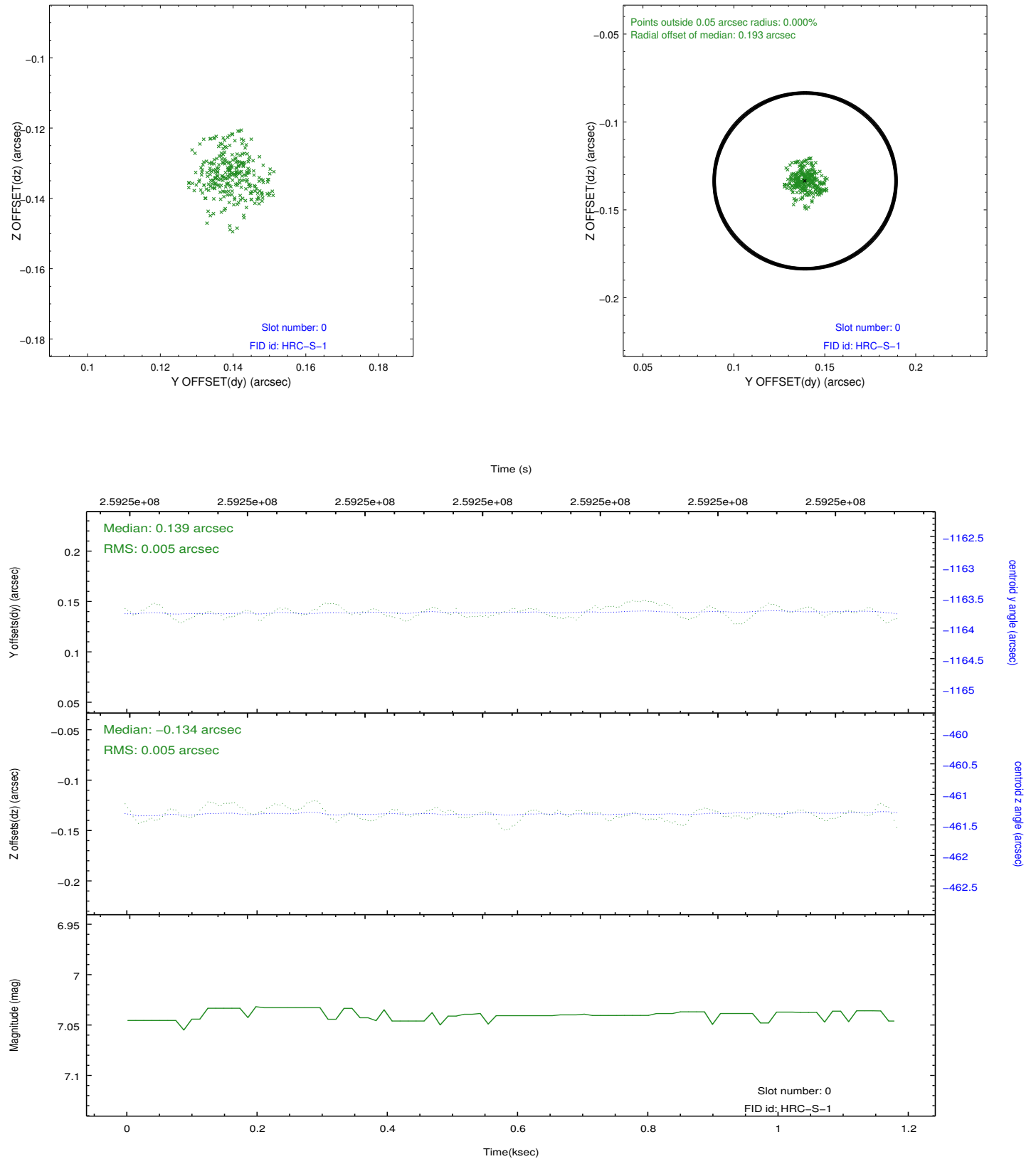


## 2.4.5 Slot 7

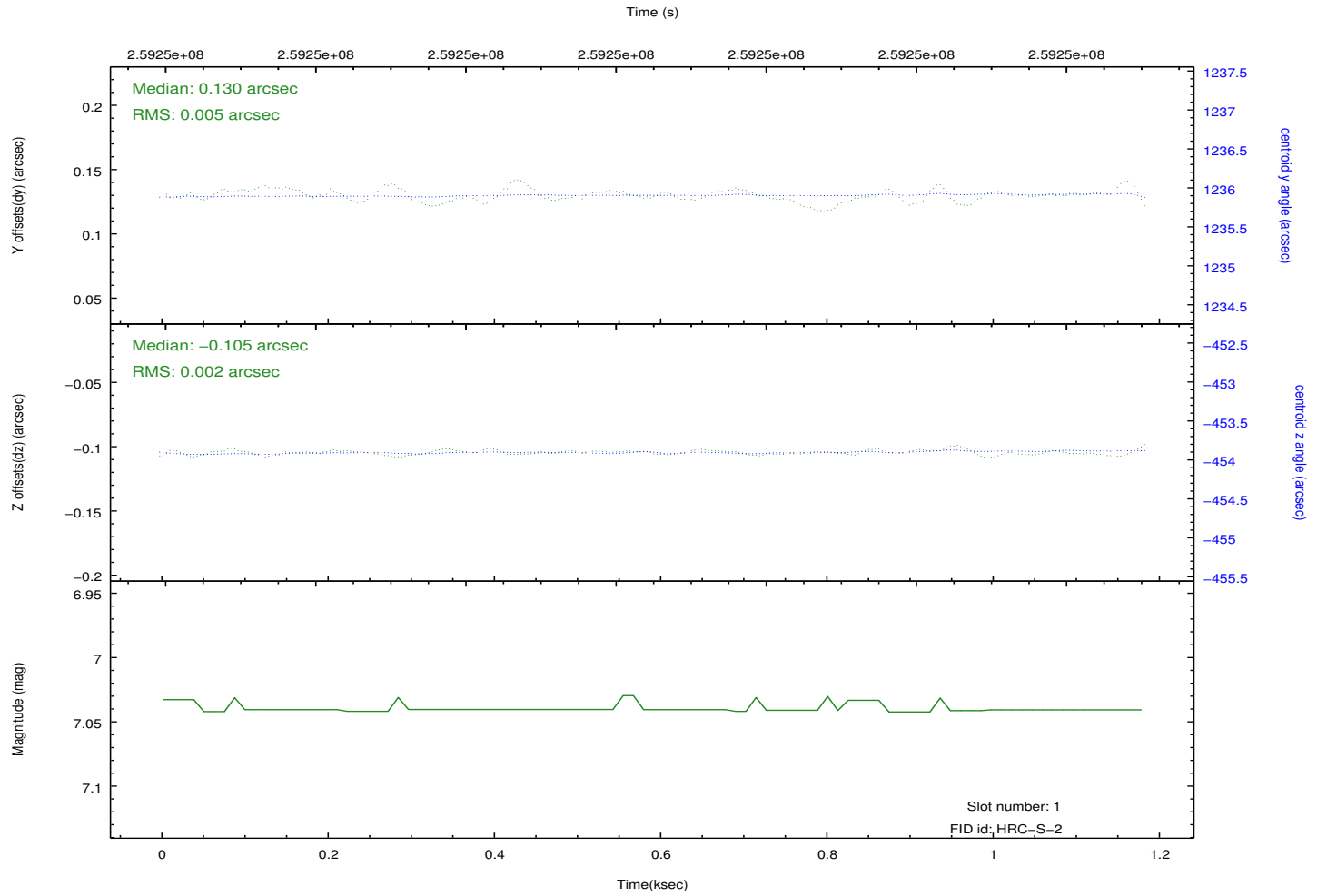
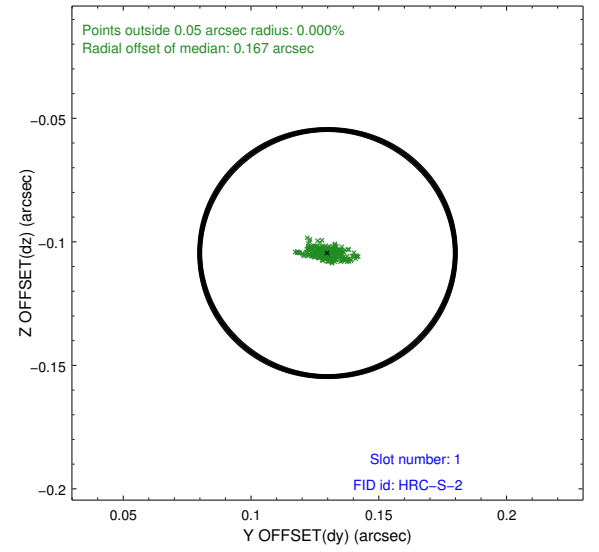
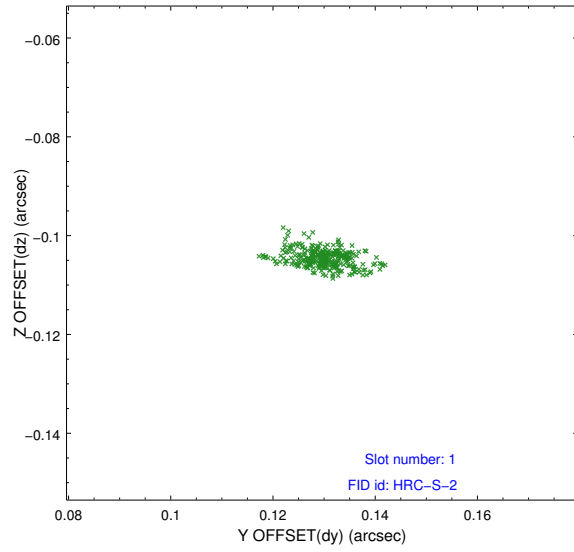


## 2.5 FID Slots

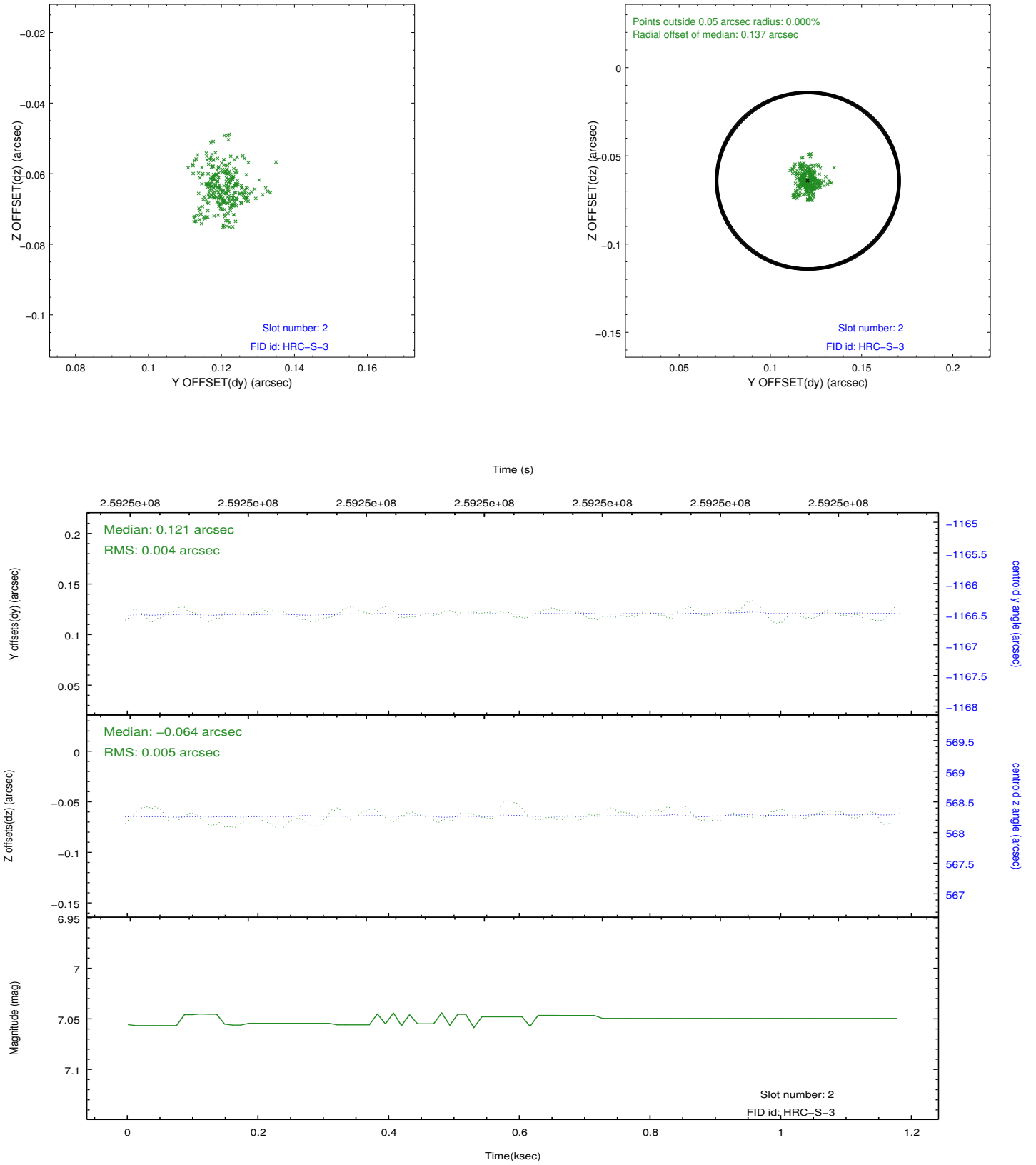
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2





## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.08.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.15722505

### A.2 Comments