

# V&V Reference Report

## L2 ASCDS Version : 10

Observation 14560 - L2 Version 2  
Chandra X-Ray Center

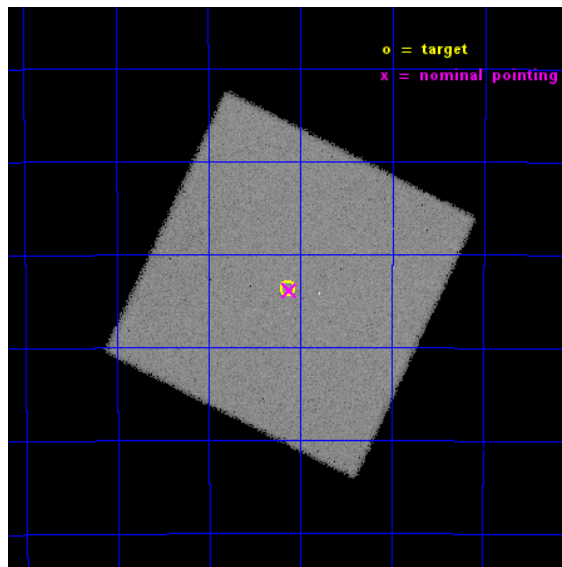
L2 Processing Date : Dec 4 2014

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# 1 Front

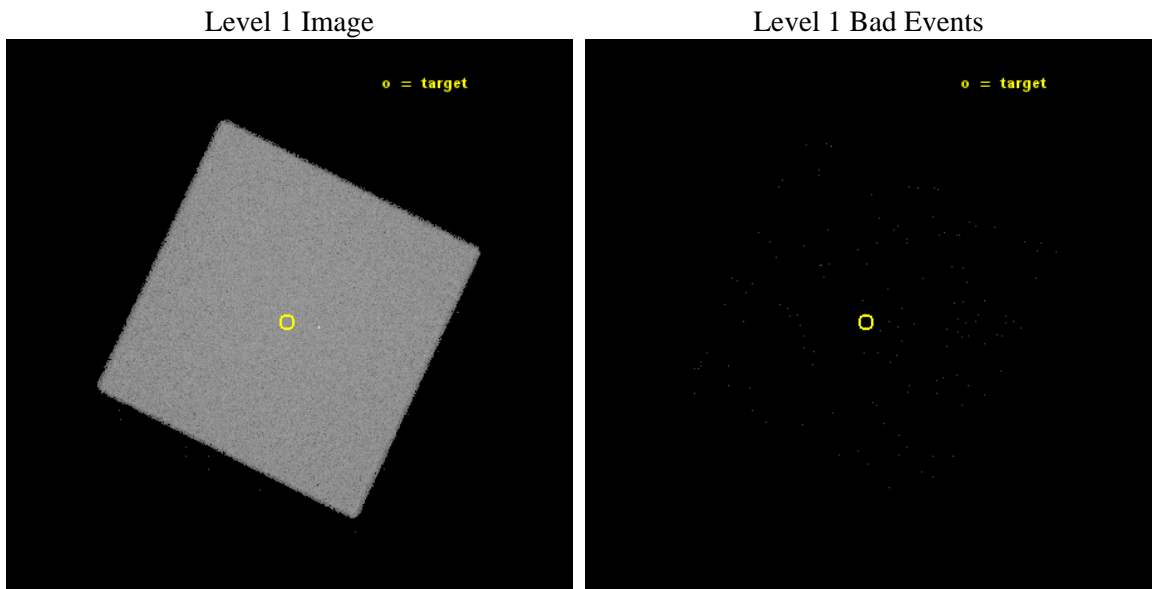
seq_num	200861	Sequence number
obs_id	14560	Observation id
title	Search for X-ray emission from a sample of luminous O-type subdwarfs	&#160
observer	Mr. Nicola La Palombara	Principal investigator
object	LSE 153	Source name
ra_targ	208.284167	Observer's specified target RA [deg]
dec_targ	-46.728417	Observer's specified target Dec [deg]
ra_nom	208.27978487578	Nominal RA [deg]
dec_nom	-46.731469414415	Nominal Dec [deg]
roll_nom	250.92928197423	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4185.3314779997	[s]
livetime	4100.429386392	Ontime multiplied by DTCOR
l2events	398763	Number of level 2 events



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	1	Obi number	sched_exp_time	4000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	4185.3314779997	[s]
caldbver	4.6.4	&#160	l1events	648357	Number of level 1 events
date	2014-12-04T22:05:15	Date and time of file creation			
revision	2	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

	<b>segment 0</b>
level 1 events	648357
rejected events	131775
rejected %	20%

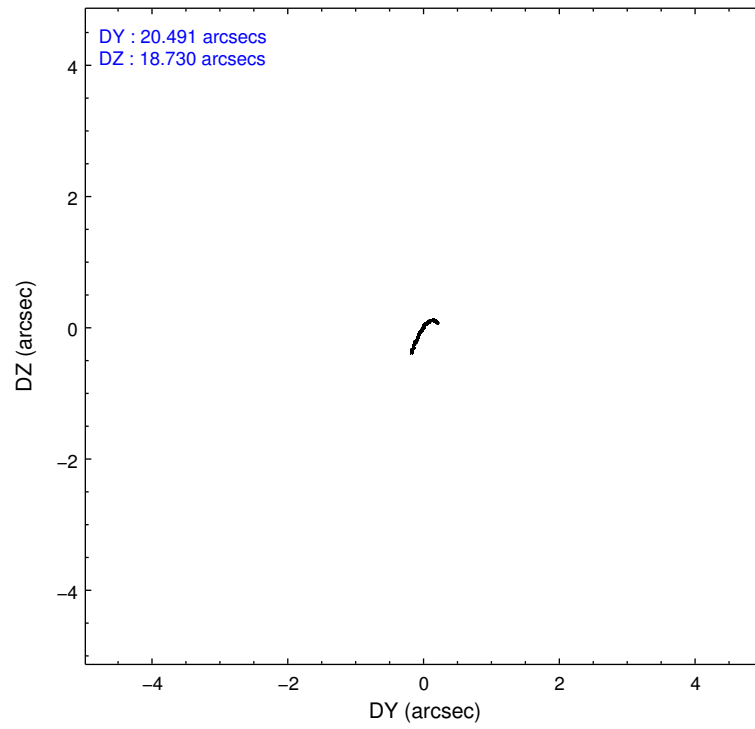
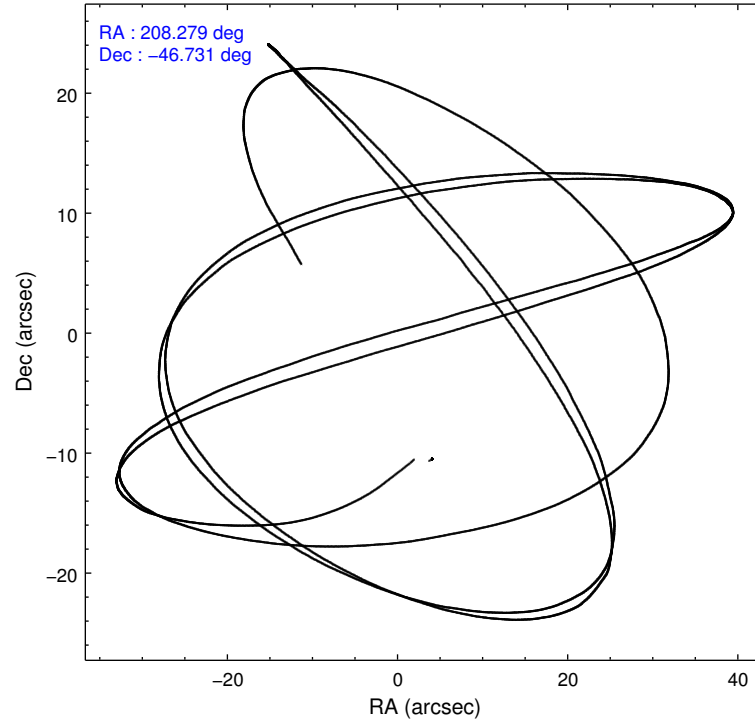


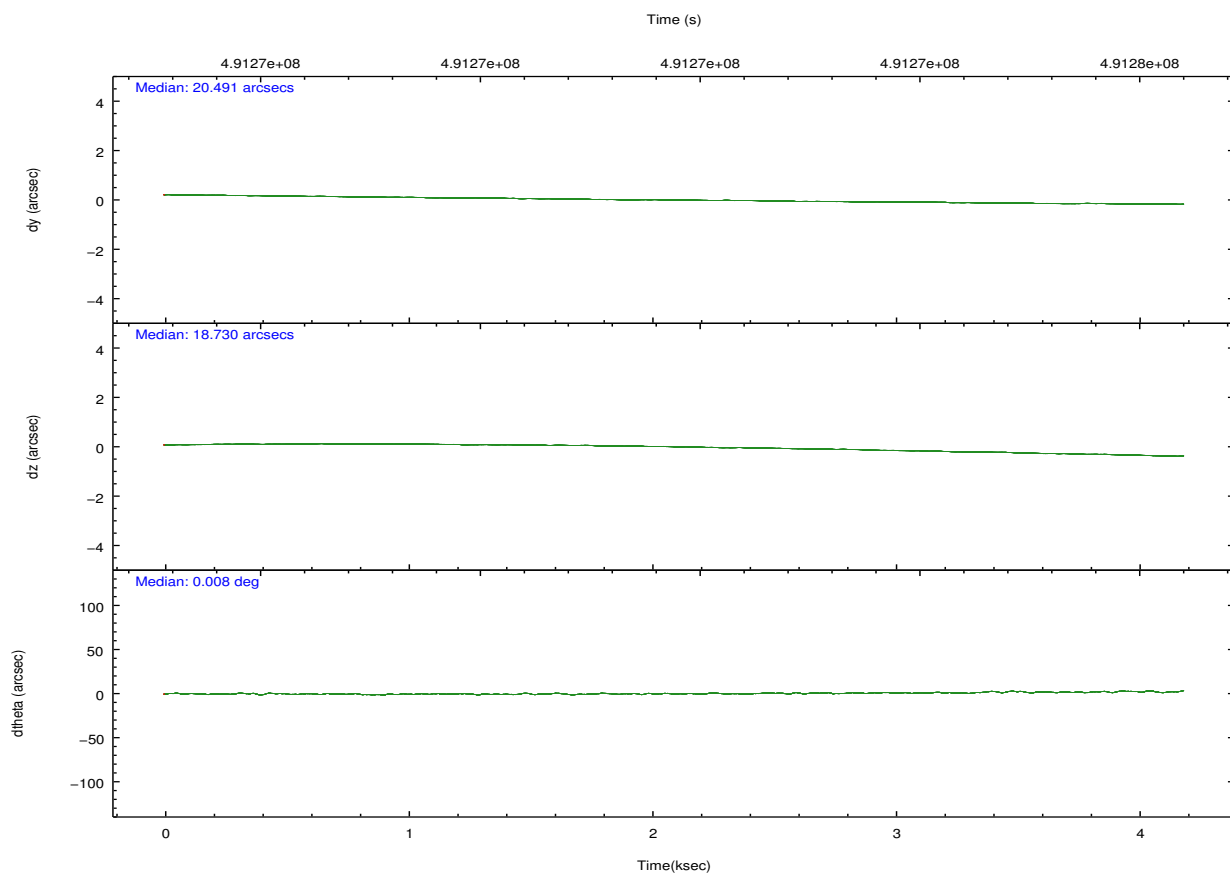
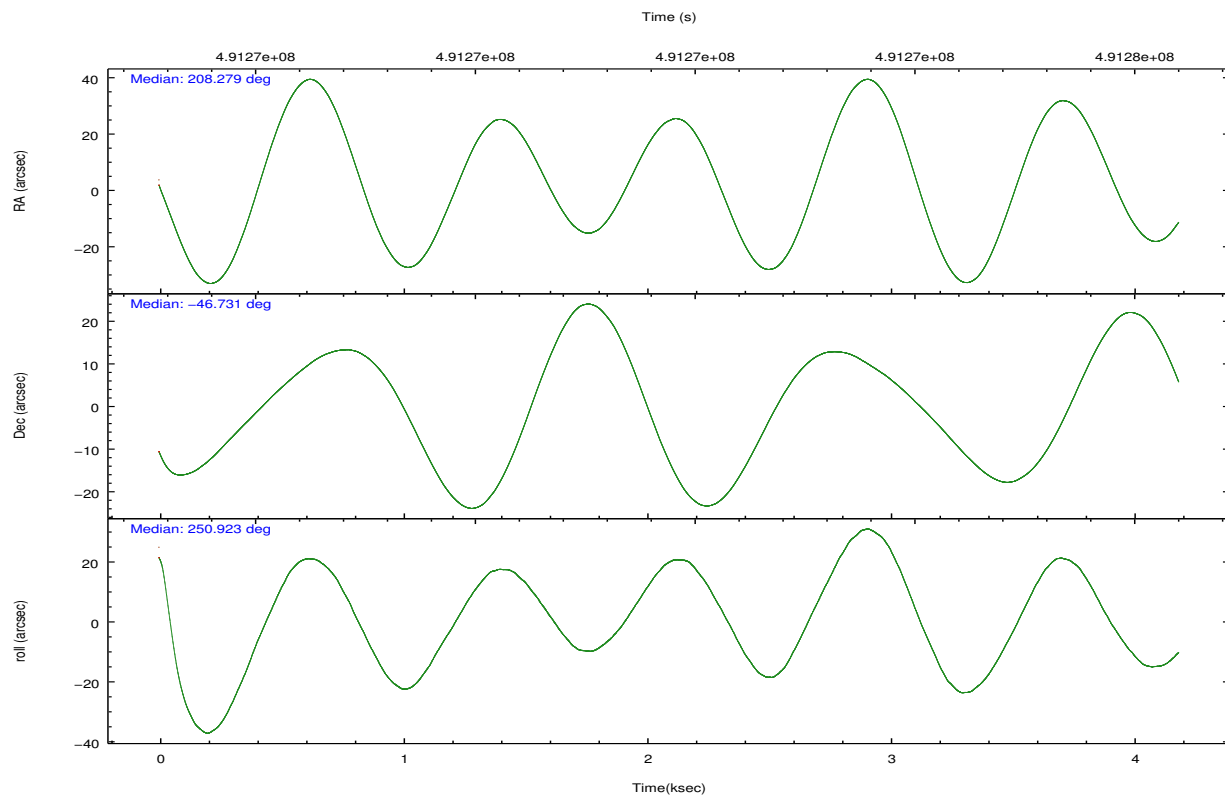
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-I	HRC-I
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	208.271731	208.279784875779
[deg] Pointing Dec	-46.705034	-46.73146941441468
[deg] Pointing Roll	251.018796	250.9292819742275
[mm] SIM focus pos	-1.040293	-1.038866356238299
[mm] SIM defocus	0	0.001426264420575141
[mm] SIM translation stage pos	126.985494	126.9829799899862
[mm] SIM translation stage offset	0	0.002508901615314585
[s] Observation start time (MET)	491270963.184000	491270080.25984
Observation start date	2013-07-27T00:08:16	2013-07-26T23:54:40
[s] Observation end time (MET)	491274963.184000	491275637.81014
Observation end date	2013-07-27T01:14:56	2013-07-27T01:27:17

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

## 2.3 Aspect



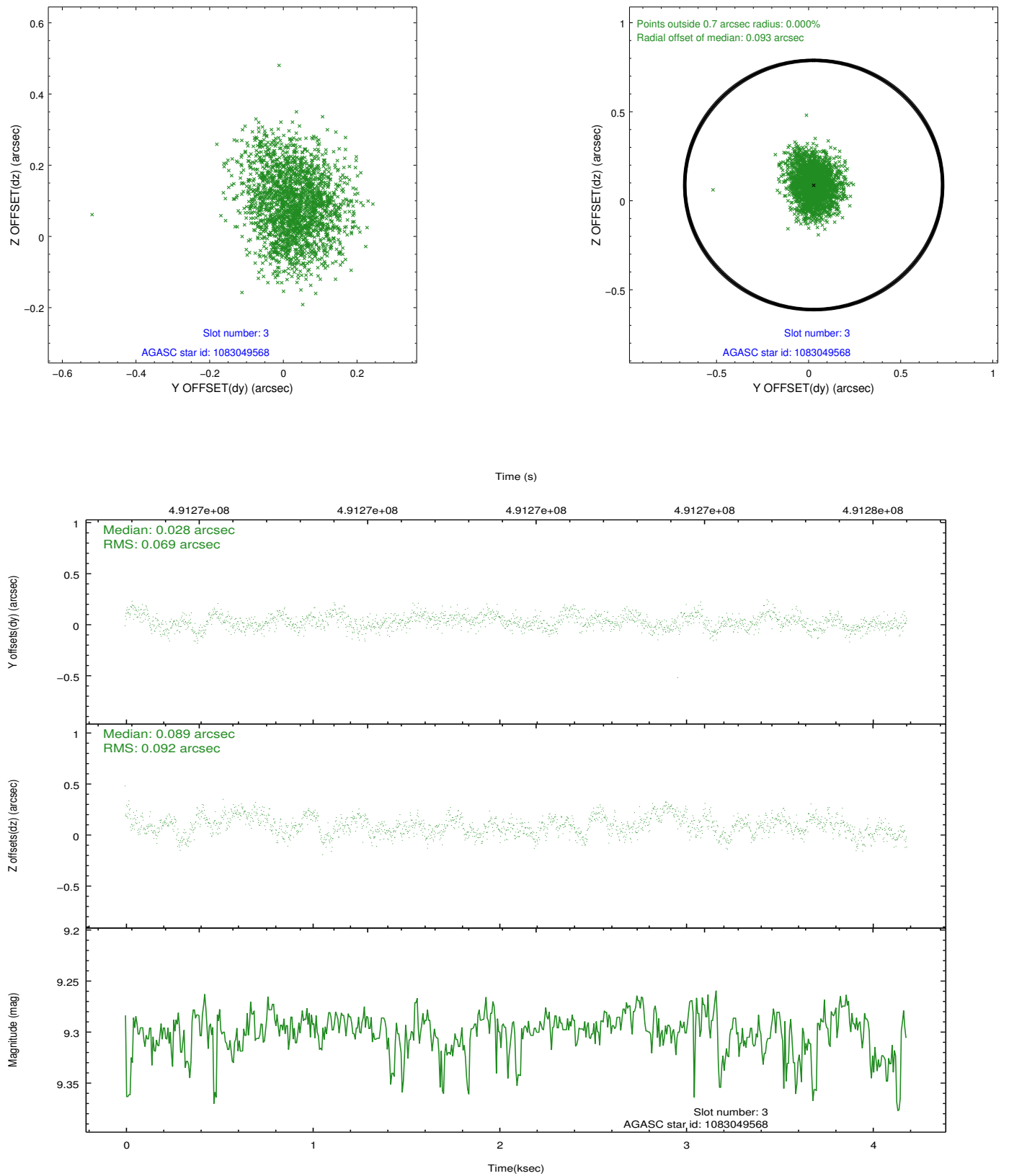


Slot Statistics

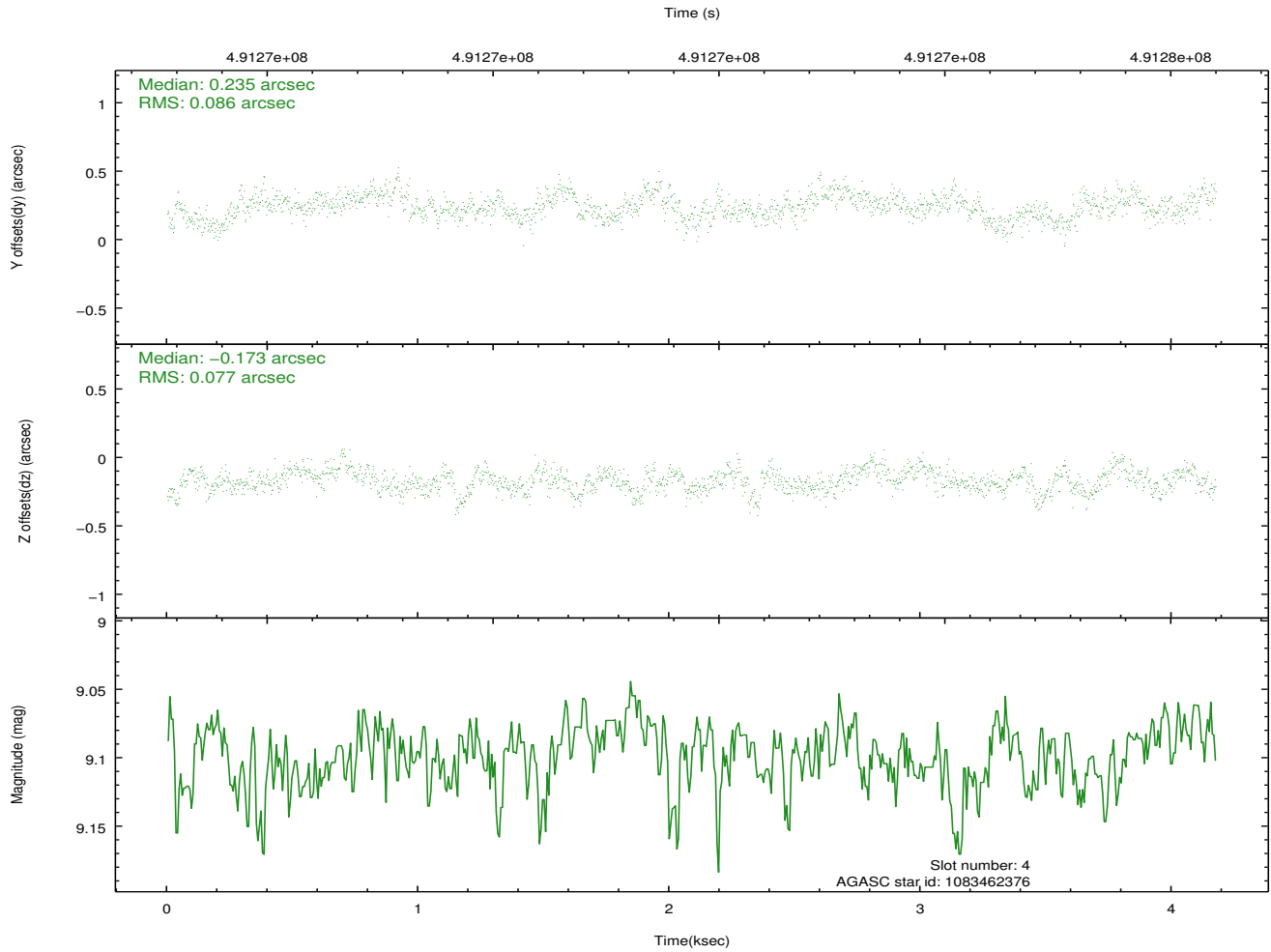
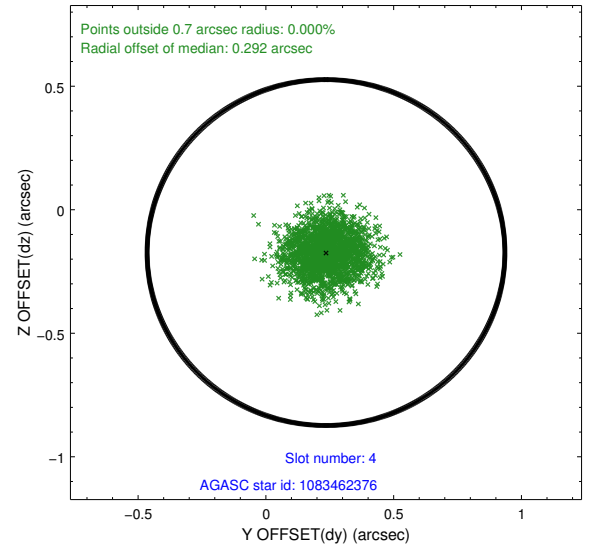
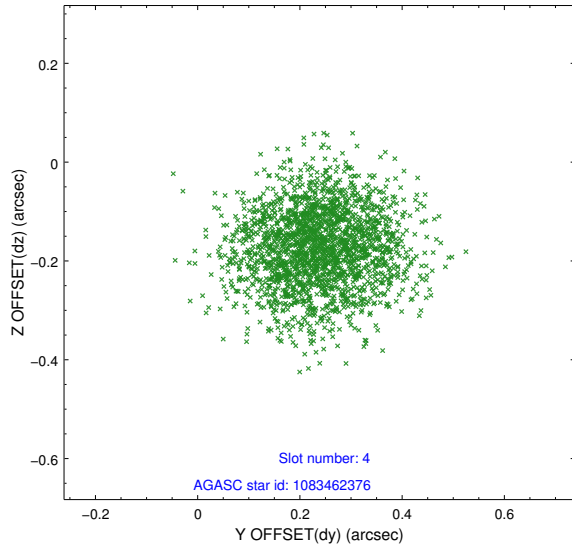
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-I-1	7.00	1022	-0.107	0.034	0.008	0.012	0.000000	0.000000	-776.54	-1306.84
1	FID		HRC-I-2	7.04	1022	0.243	-0.107	0.012	0.027	0.000000	0.000000	835.69	-1309.82
2	FID		HRC-I-3	7.09	1021	-0.016	-0.016	0.011	0.032	0.000000	0.000000	-1204.14	996.38
3	GUIDE	used	1083049568	9.30	2041	0.028	0.089	0.122	0.196	208.722623	-46.248665	-1915.07	529.06
4	GUIDE	used	1083462376	9.10	2028	0.235	-0.173	0.126	0.200	208.052906	-47.286733	2154.68	177.48
5	GUIDE	used	1083597104	7.85	2038	-0.100	-0.025	0.089	0.146	208.805962	-47.092249	898.08	1694.18
6	GUIDE	used	1083575496	9.10	2024	-0.150	-0.083	0.131	0.199	209.097901	-47.120650	766.94	2405.46
7	GUIDE	used	1082924104	9.58	2034	-0.018	0.195	0.177	0.290	207.265690	-46.754875	993.04	-2280.50

## 2.4 Star Slots

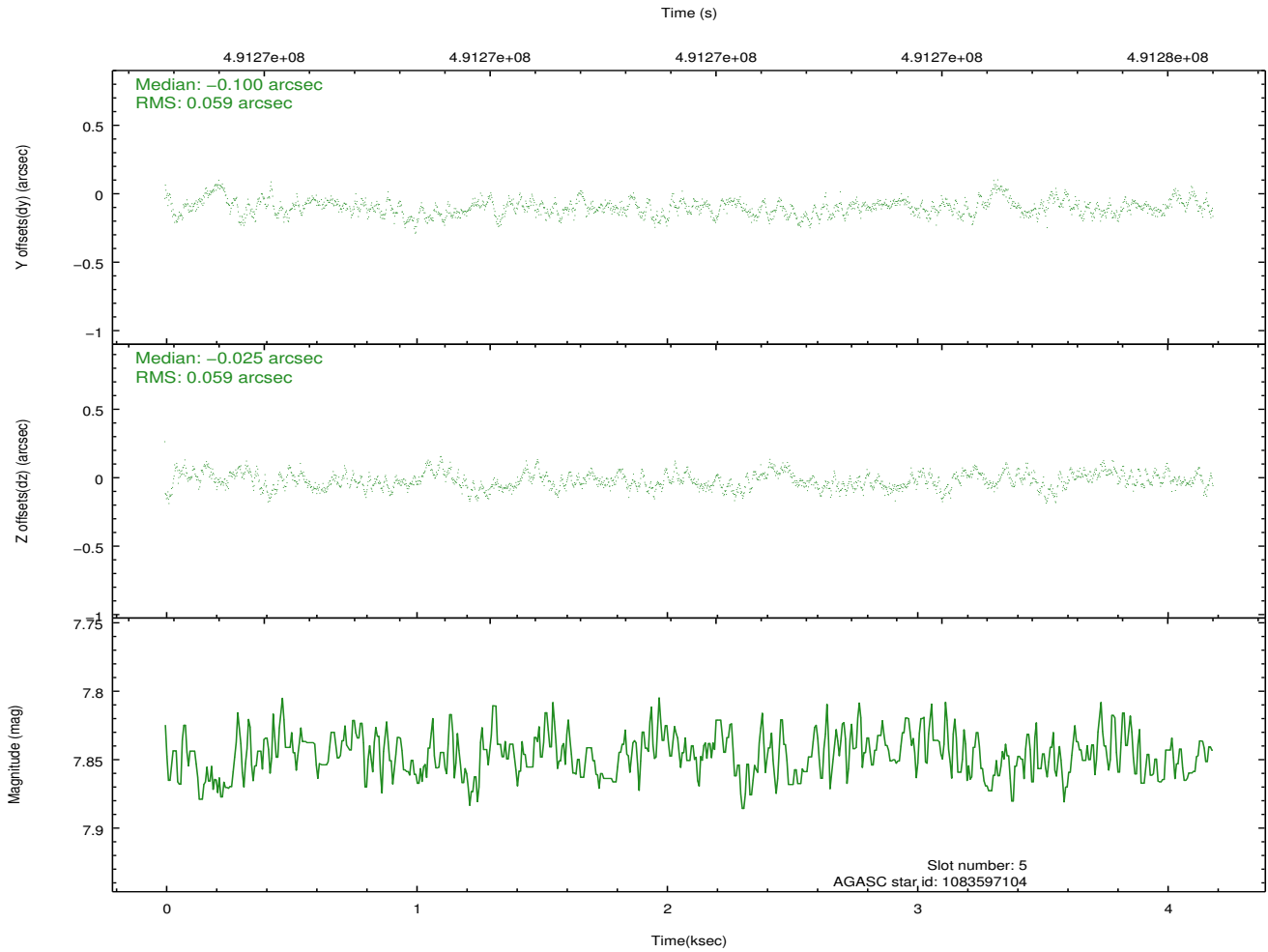
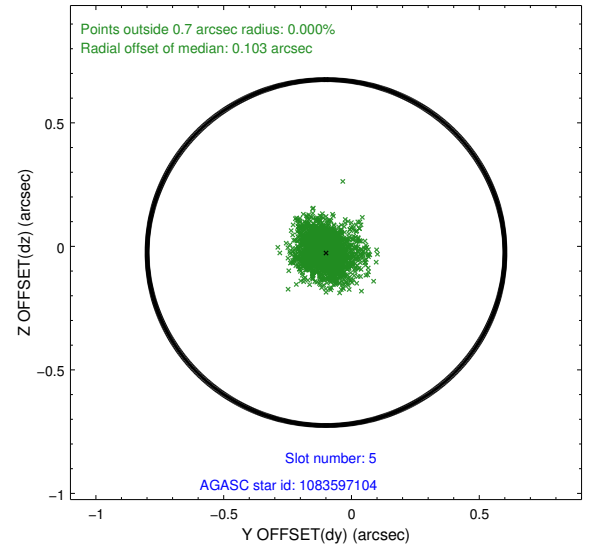
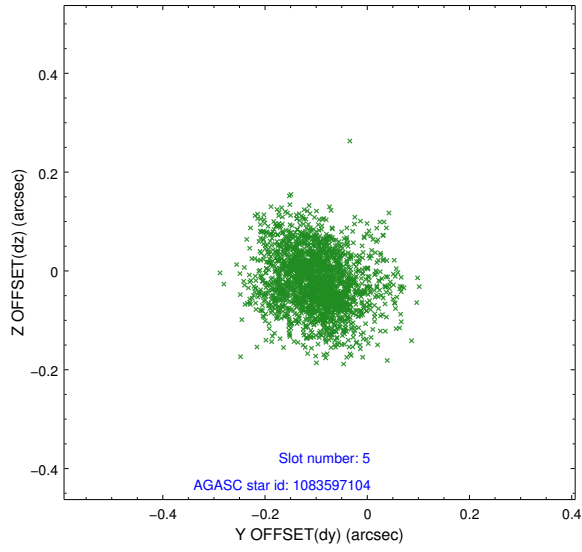
### 2.4.1 Slot 3



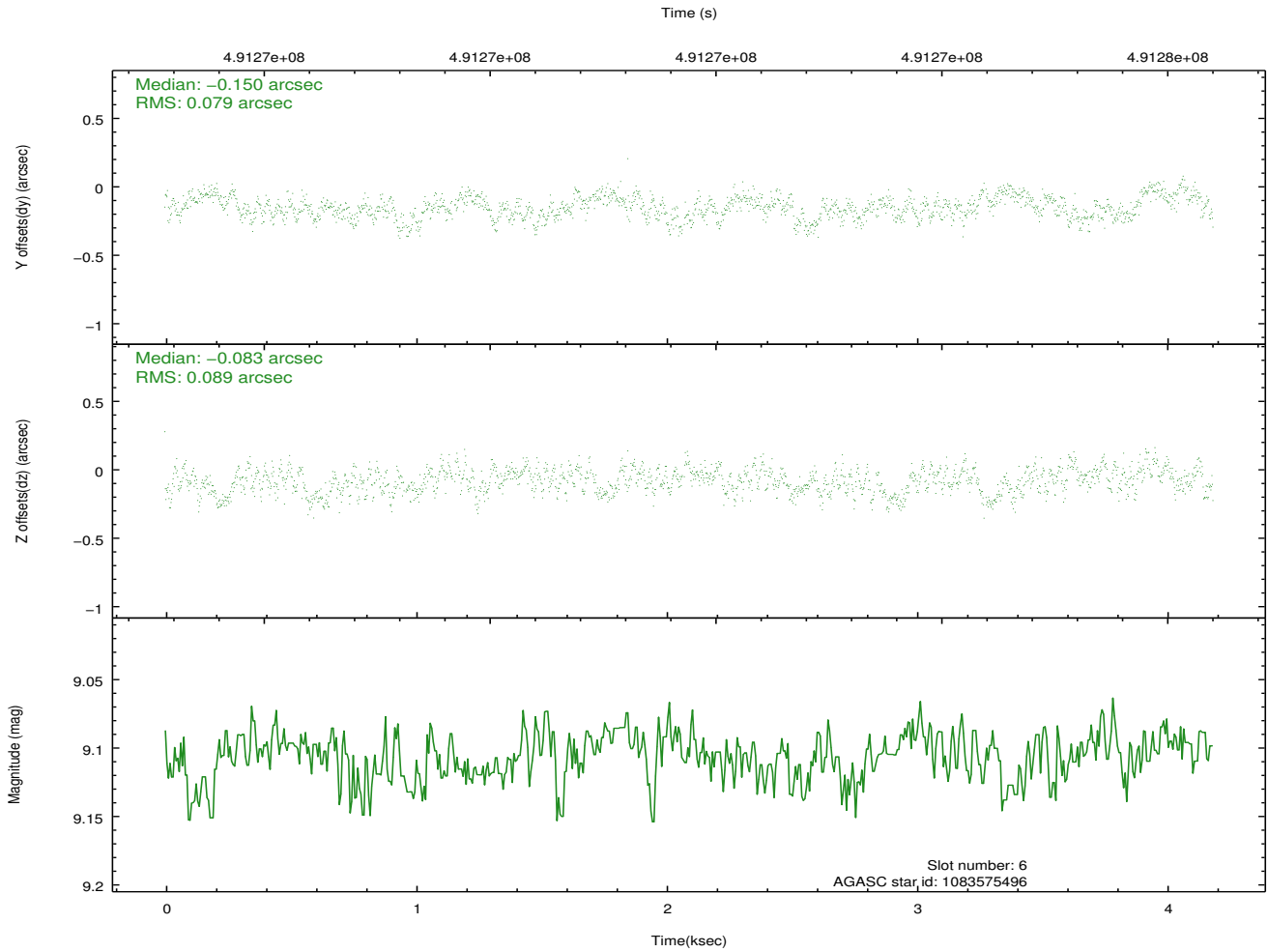
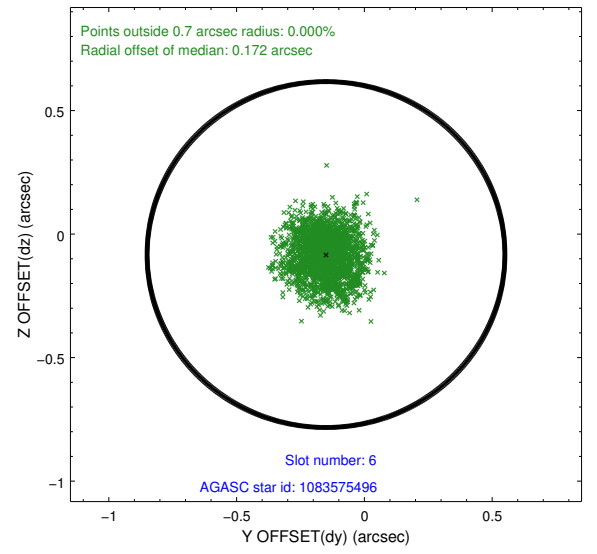
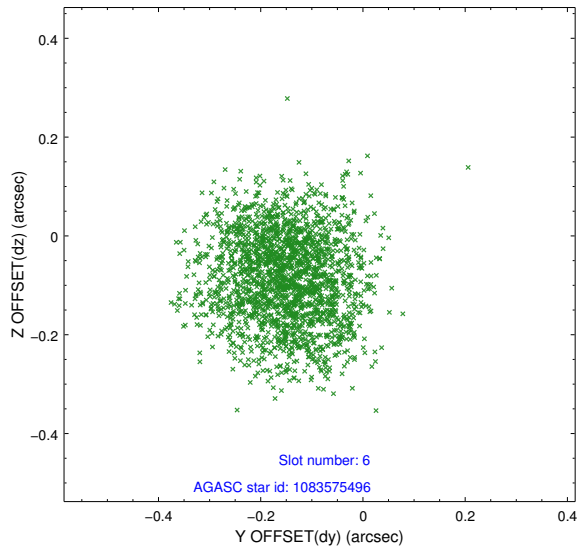
## 2.4.2 Slot 4



### 2.4.3 Slot 5

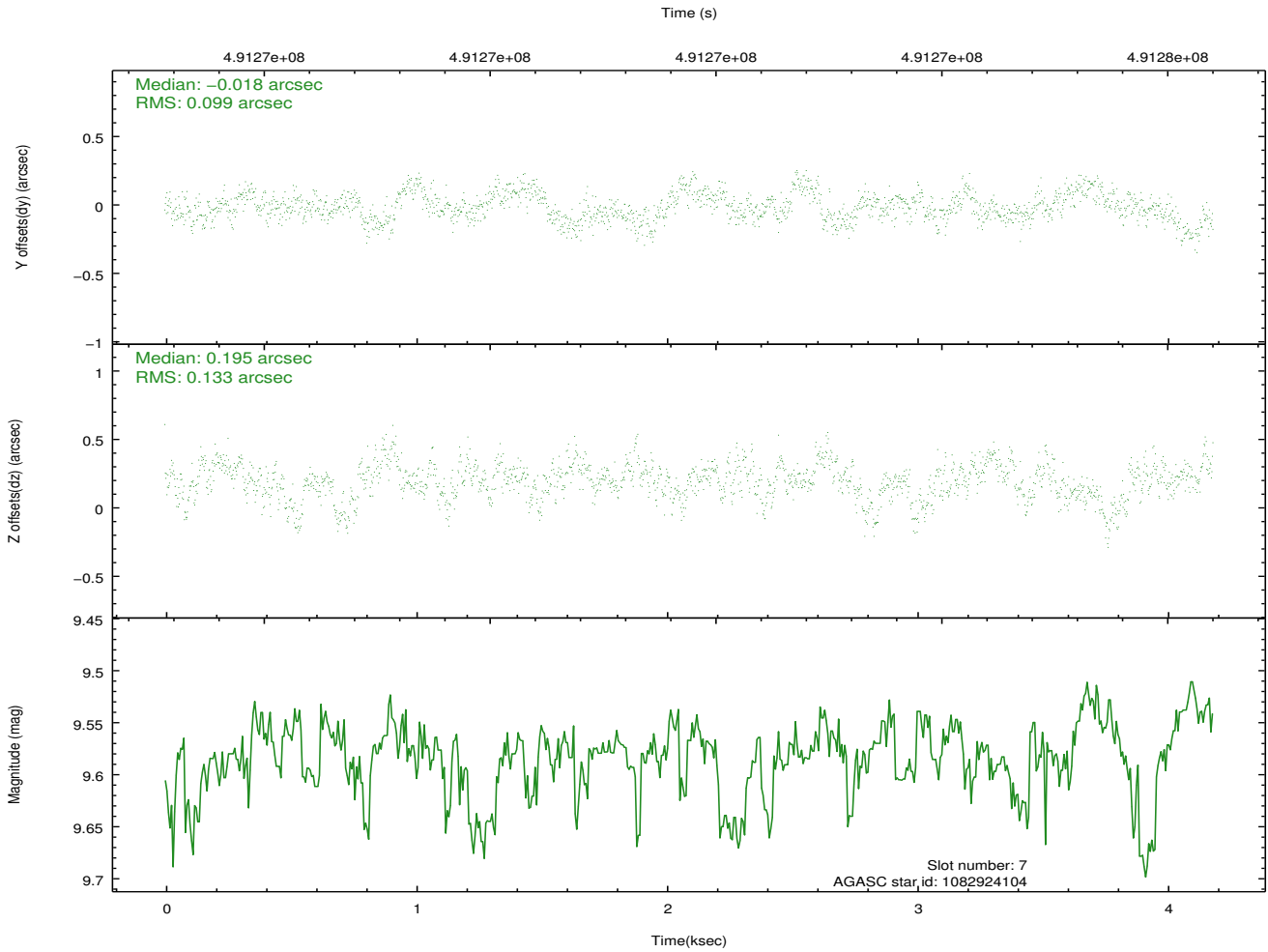
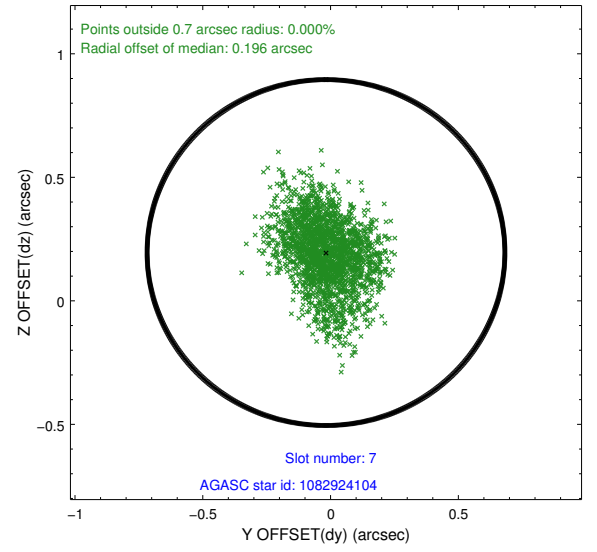
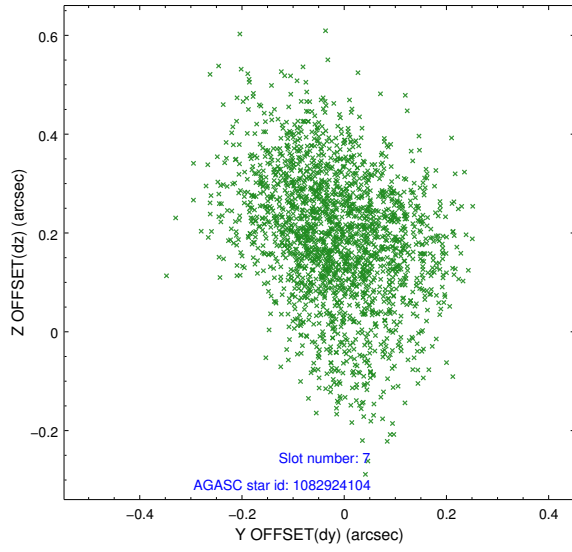


## 2.4.4 Slot 6



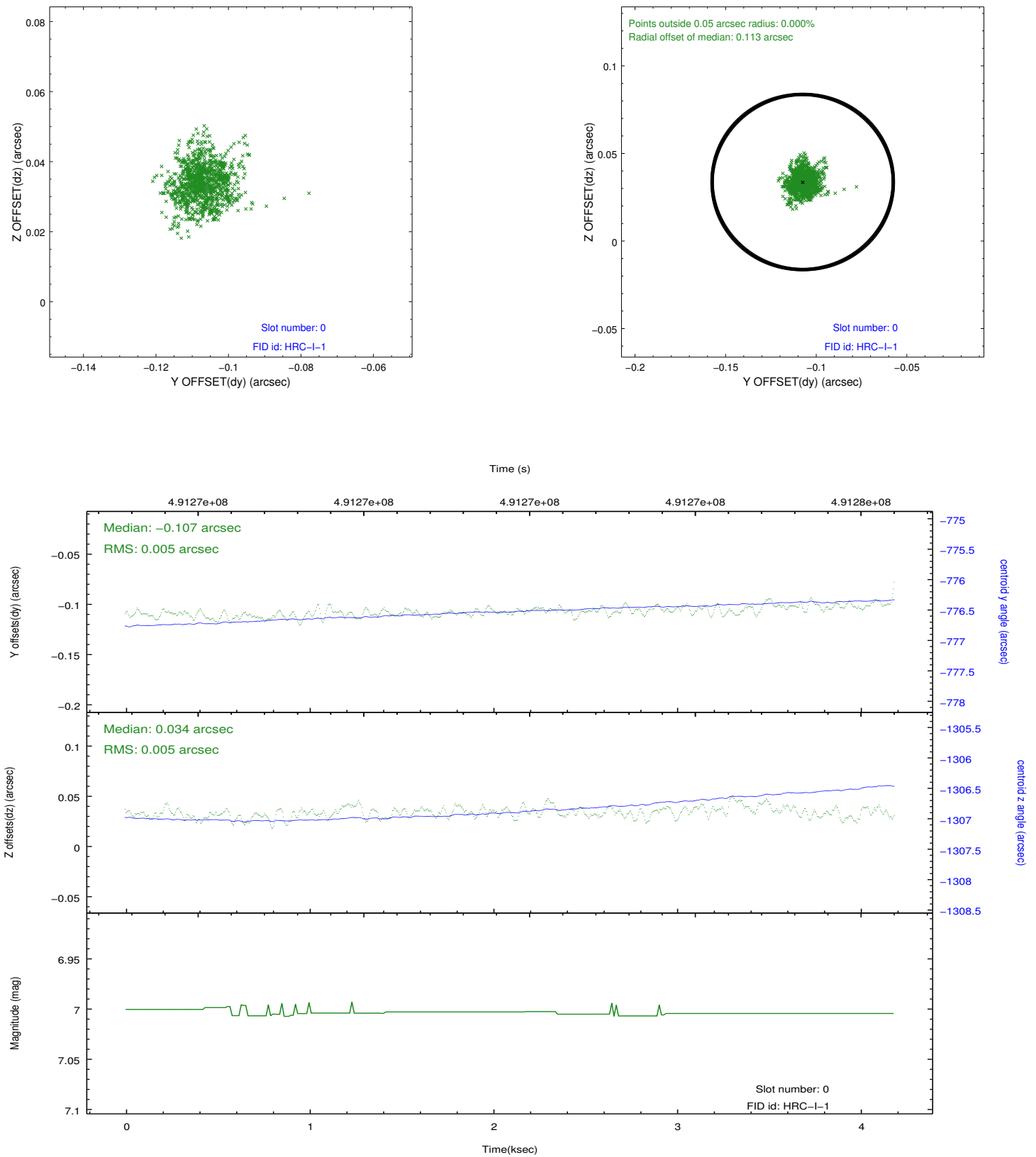


## 2.4.5 Slot 7

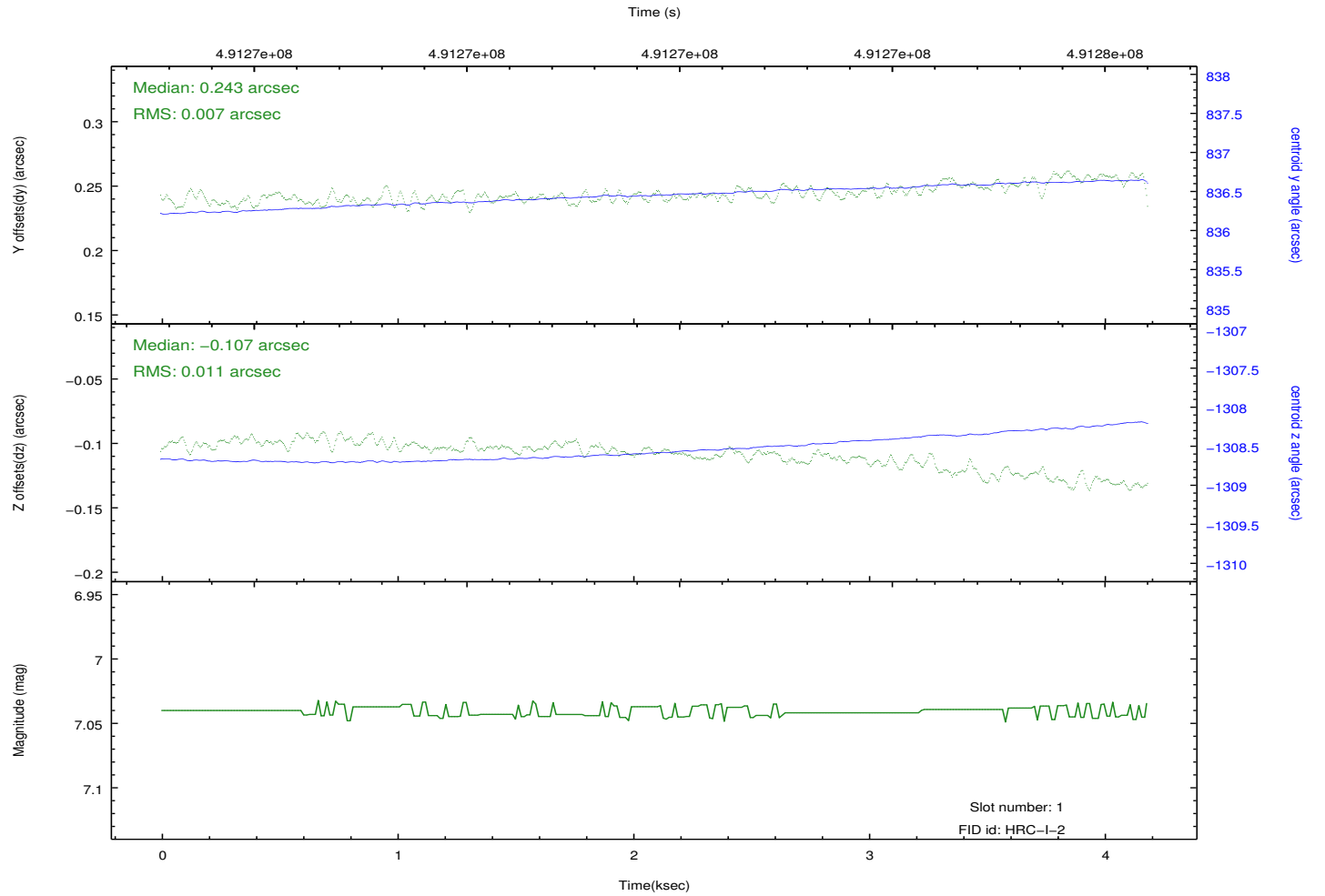
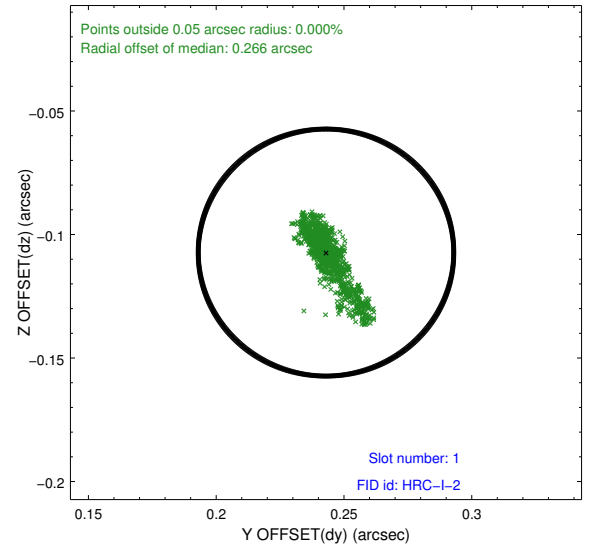
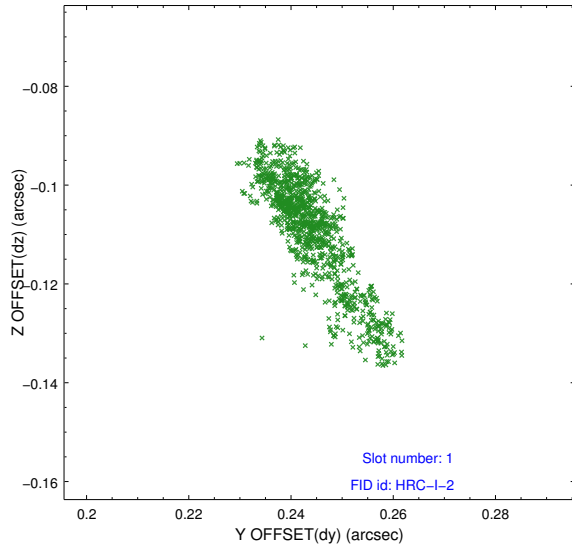


## 2.5 FID Slots

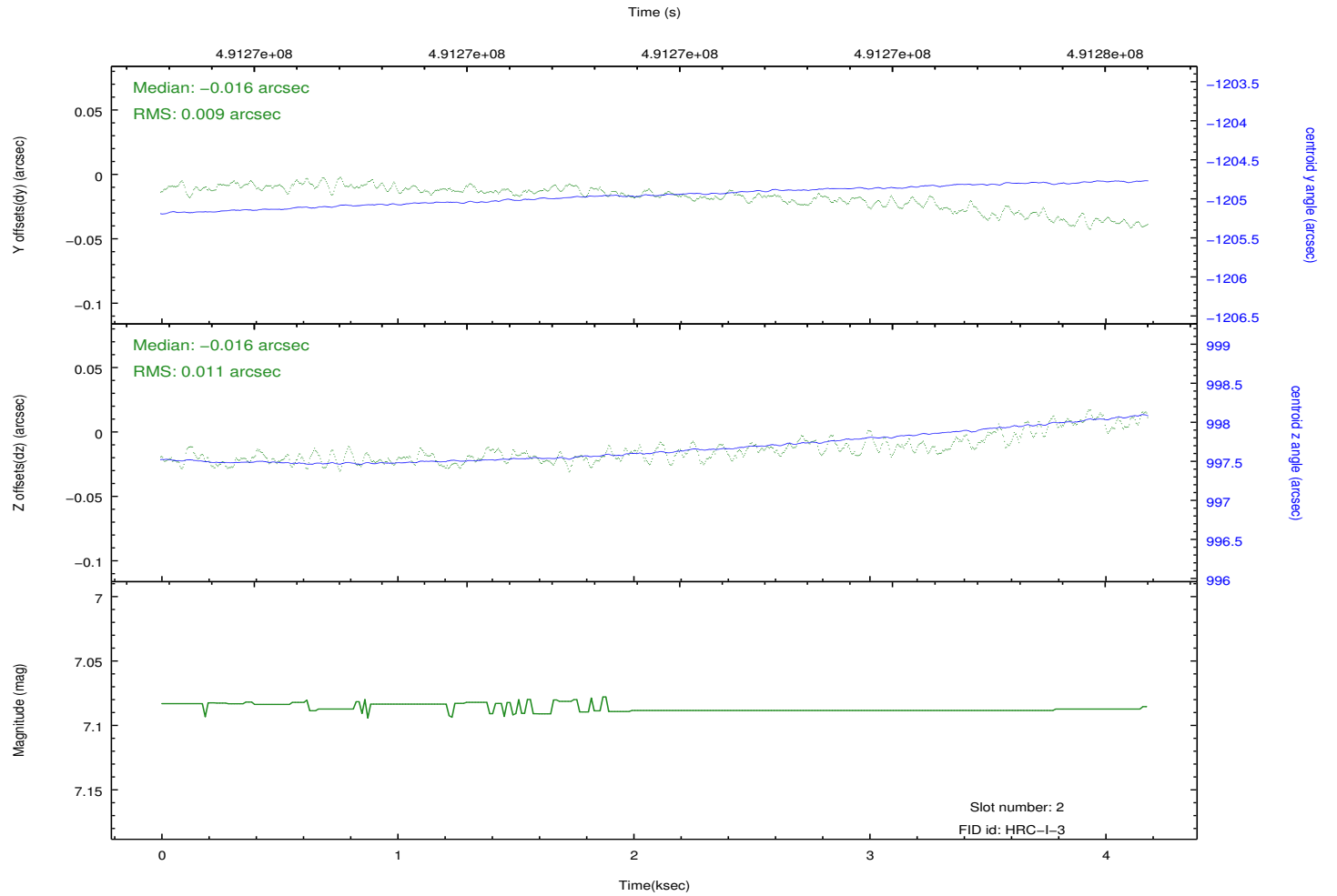
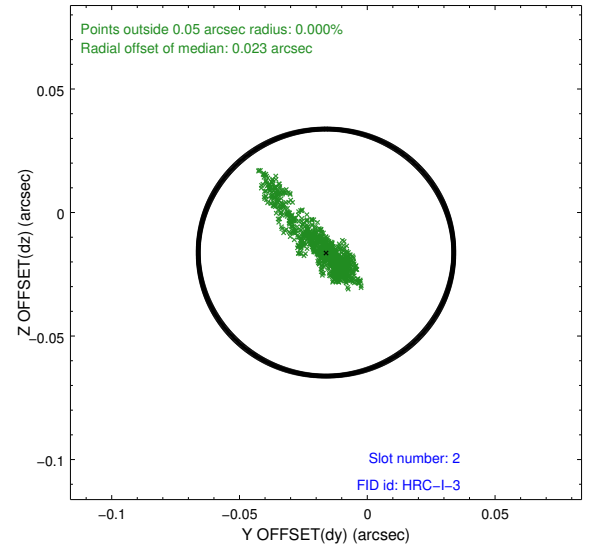
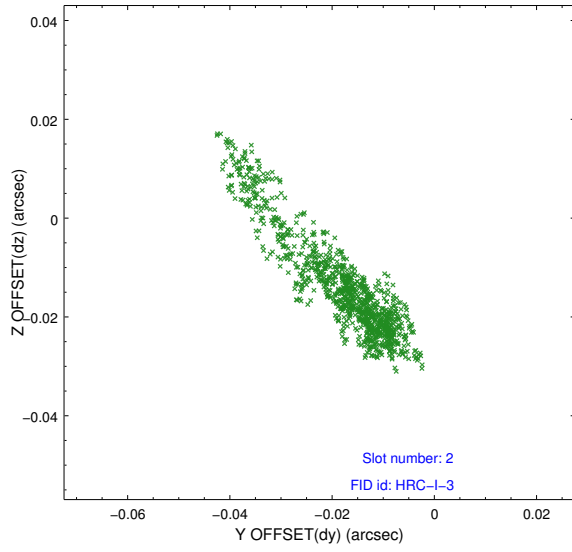
### 2.5.1 Slot 0



## 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)	2014.12.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.1853314779997

## A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.