

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3680 - L2 Version 4  
Chandra X-Ray Center

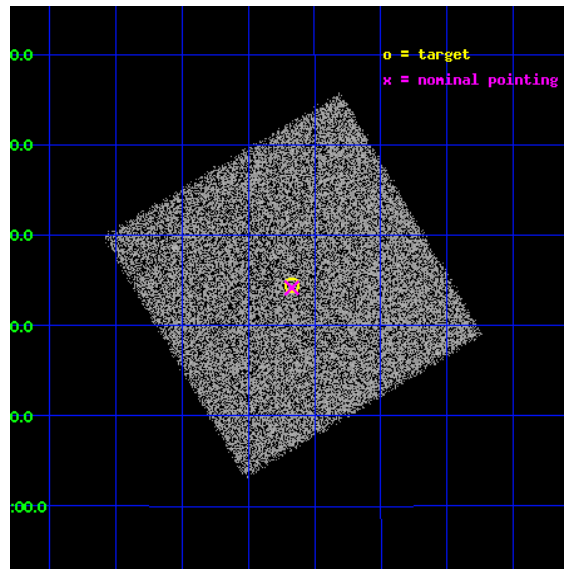
L2 Processing Date : Oct 22 2012

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# 1 Front

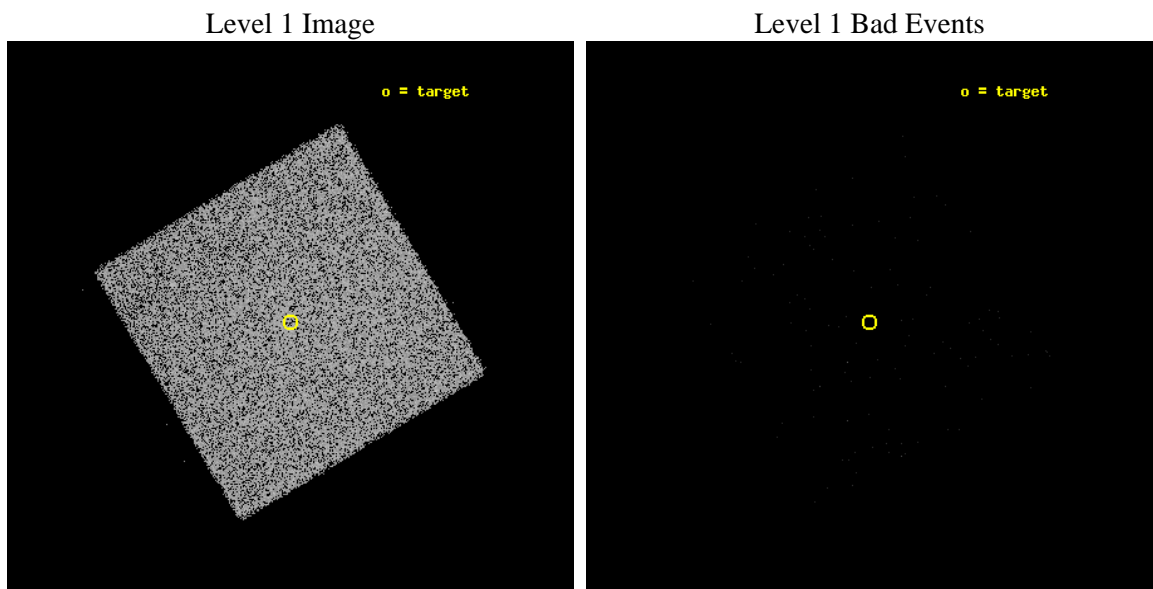
seq_num	290234	Sequence number
obs_id	3680	Observation id
title	AO4 MEASUREMENTS OF THE OPTICAL/UV TRANSMISSION OF THE HRC AND ACIS FILTERS	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	BETELGEUSE	Source name
ra_targ	88.792917	Observer's specified target RA [deg]
dec_targ	7.407056	Observer's specified target Dec [deg]
ra_nom	88.792594542112	Nominal RA [deg]
dec_nom	7.4030630740743	Nominal Dec [deg]
roll_nom	284.25921691508	Nominal Roll [deg]
revision	4	Processing version of data
ontime	1893.4313295186	[s]
livetime	1883.2093849468	Ontime multiplied by DTCOR
l2events	51493	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	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	1893.4313295186	[s]
caldbver	4.5.2	&#160	l1events	88602	Number of level 1 events
date	2012-10-22T04:12:42	Date and time of file creation			
revision	4	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

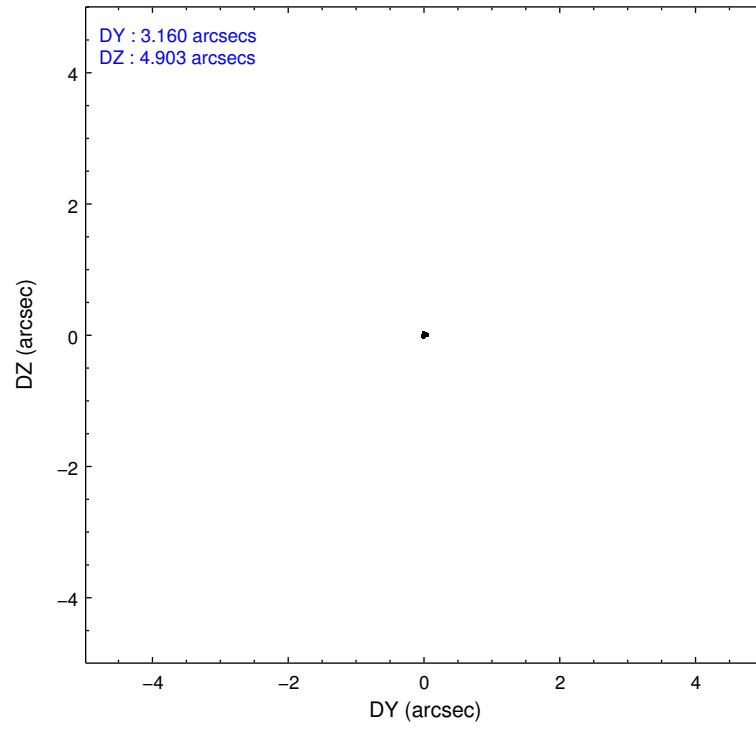
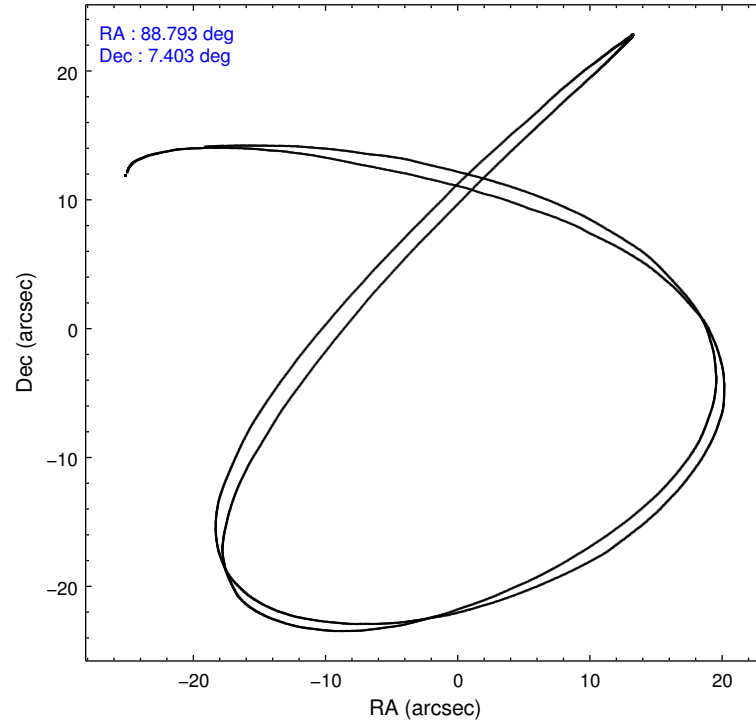
	<b>segment 0</b>
level 1 events	88602
rejected events	11470
rejected %	12%

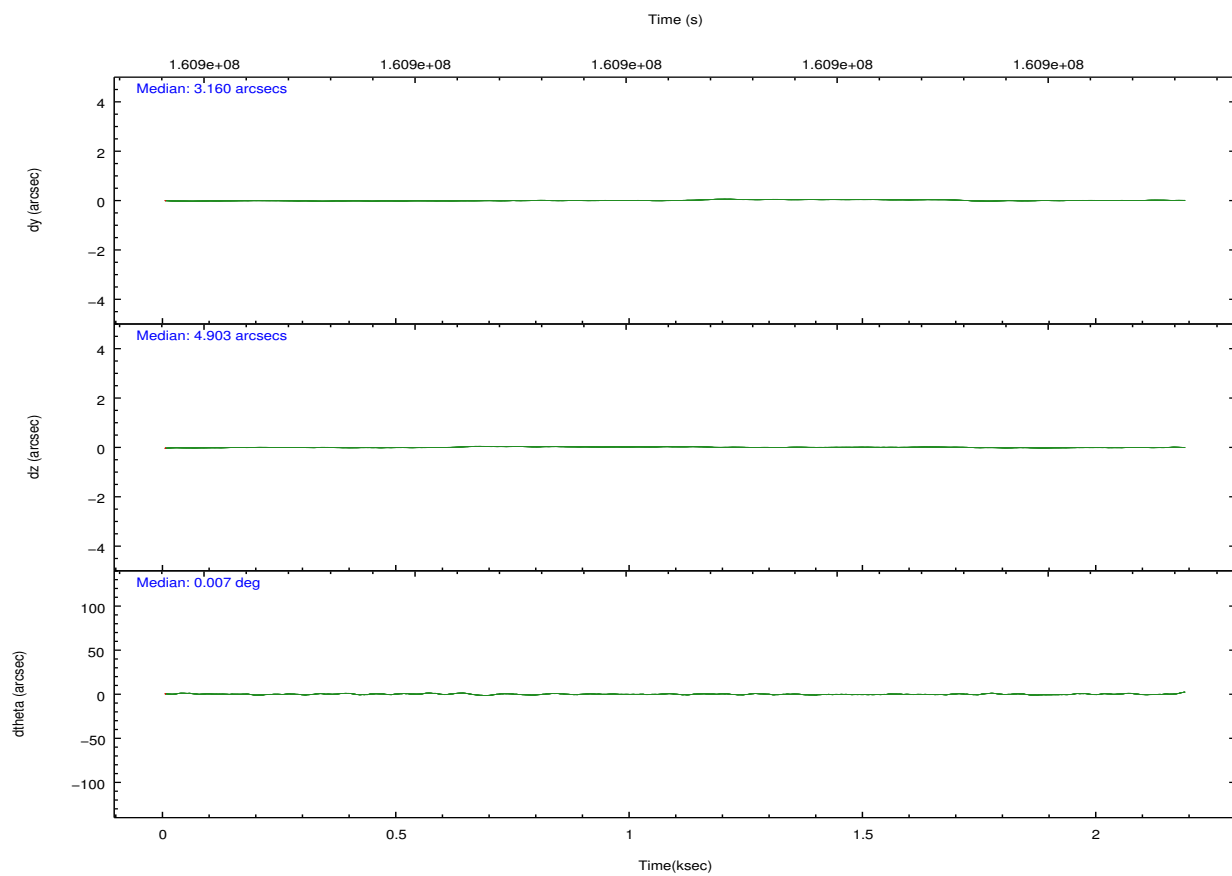
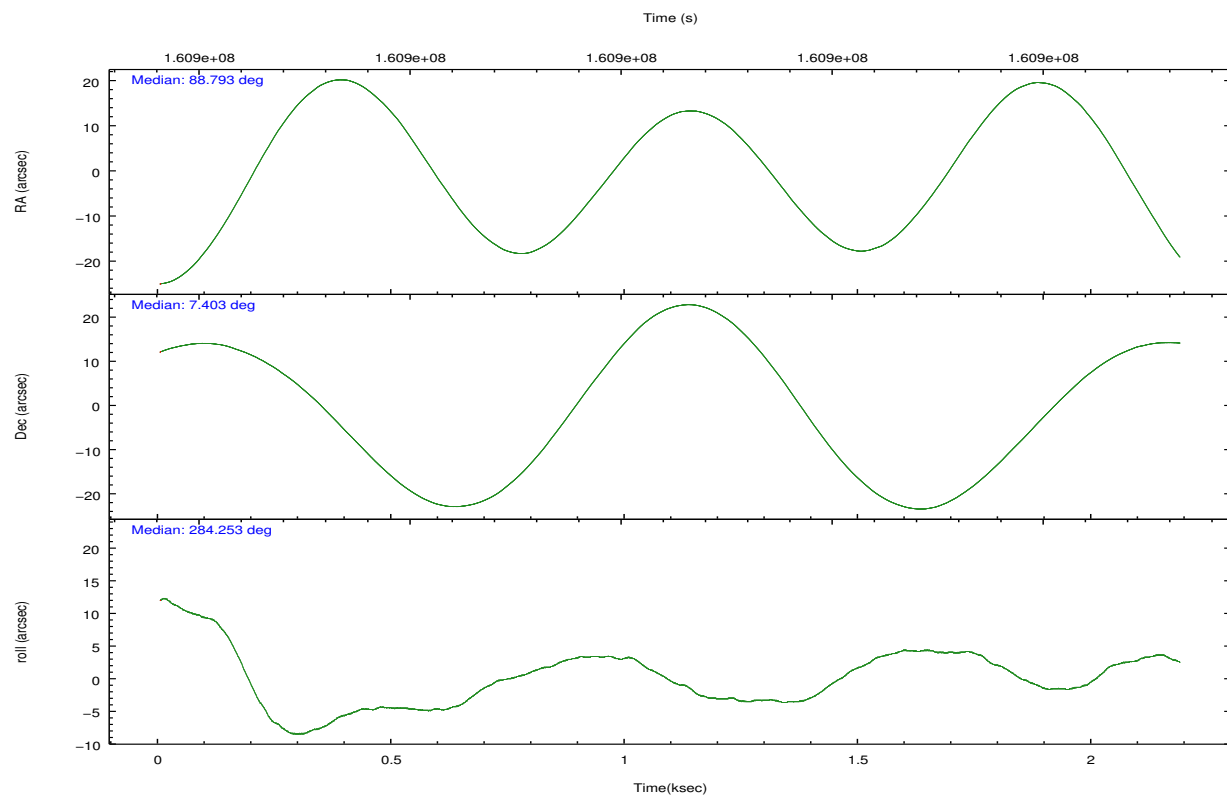
## 2.2 Compared Parameters

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	88.772783	88.79259454211162
[deg] Pointing Dec	7.421899	7.40306307407431
[deg] Pointing Roll	284.357229	284.2592169150785
[s] Window start time (MET)	160444864.184000	160444864.184000
[s] Window stop time (MET)	162777664.184000	162777664.184000
[mm] SIM focus pos	-1.040293	-1.038866356238299
[mm] SIM defocus	0	0.001426264420575141
[mm] SIM translation stage pos	126.985494	126.9854943052878
[mm] SIM translation stage offset	0	-5.413686238853188e-06
[s] Observation start time (MET)	160899712.184000	160899299.96098
Observation start date	2003-02-06T06:20:48	2003-02-06T06:14:59
[s] Observation end time (MET)	160901712.184000	160901926.01109
Observation end date	2003-02-06T06:54:08	2003-02-06T06:58:46

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

## 2.3 Aspect





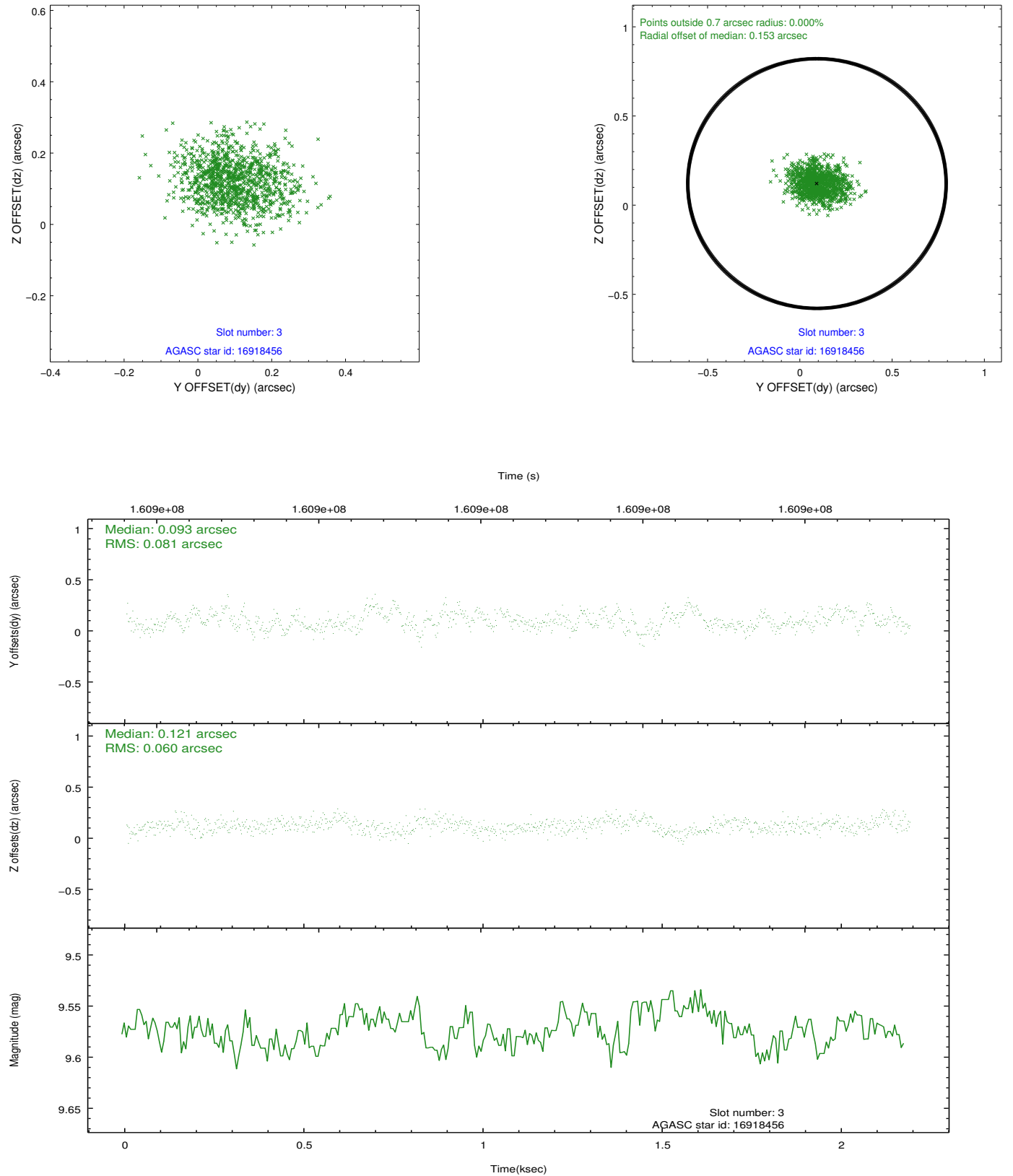
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	6.98	534	0.003	0.014	0.006	0.010	0.000000	0.000000	-758.60	-1292.75
1	FID	HRC-I-2	7.02	534	0.083	-0.047	0.006	0.010	0.000000	0.000000	852.69	-1296.76
2	FID	HRC-I-3	7.07	533	0.034	-0.057	0.005	0.010	0.000000	0.000000	-1185.53	1009.30
3	GUIDE	16918456	9.57	1062	0.093	0.121	0.106	0.172	89.526896	7.059699	1929.44	2286.73
4	GUIDE	93855168	9.06	1067	-0.038	0.062	0.087	0.138	89.021483	7.846508	-1259.12	1239.45
5	GUIDE	16910592	8.98	1067	0.125	-0.023	0.090	0.140	88.532936	6.726769	2211.00	-1450.89
6	GUIDE	16920024	9.59	1061	0.021	0.034	0.127	0.197	89.470514	7.369076	802.41	2364.35
7	GUIDE	93727680	9.40	1065	-0.203	-0.194	0.104	0.168	87.997056	7.769554	-1899.87	-2368.88

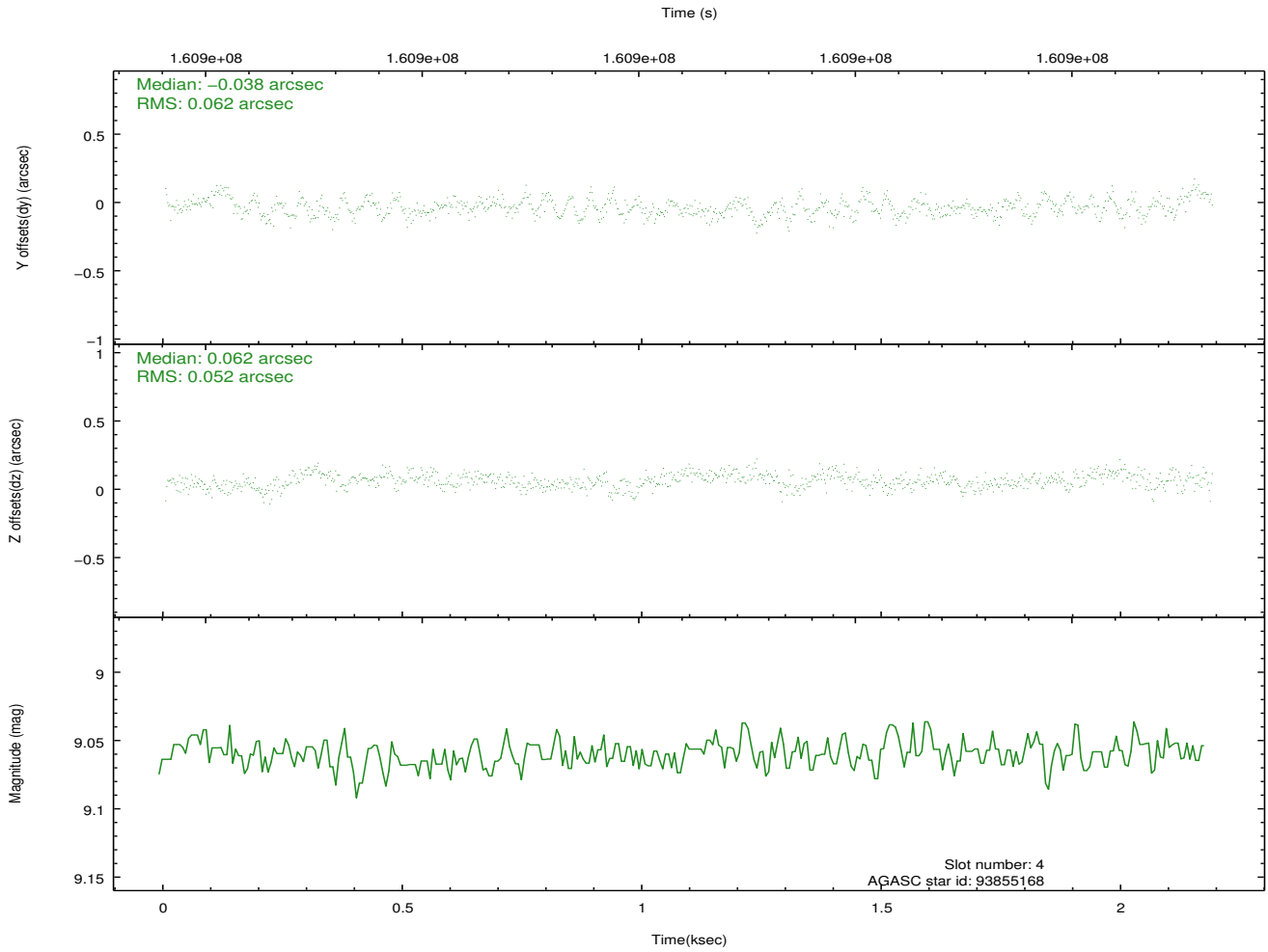
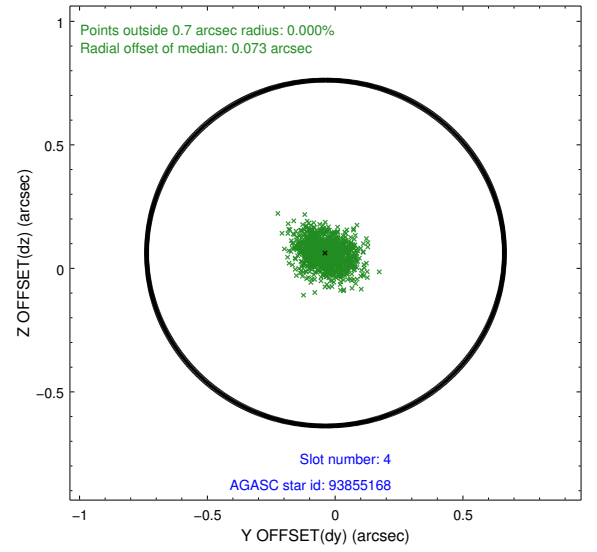
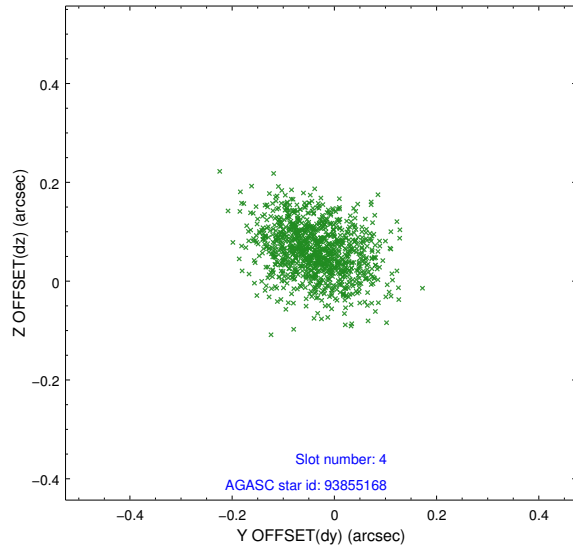


## 2.4 Star Slots

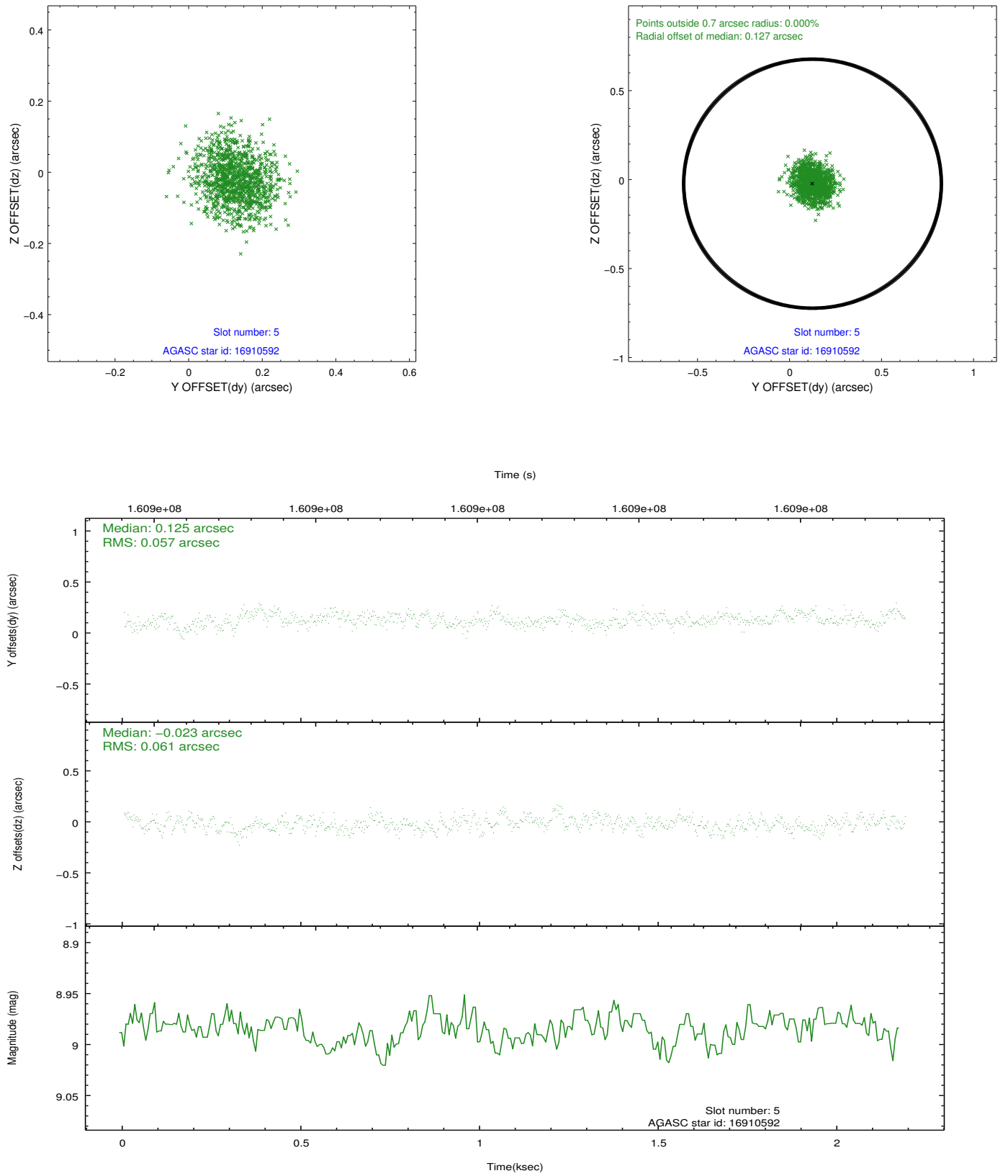
### 2.4.1 Slot 3



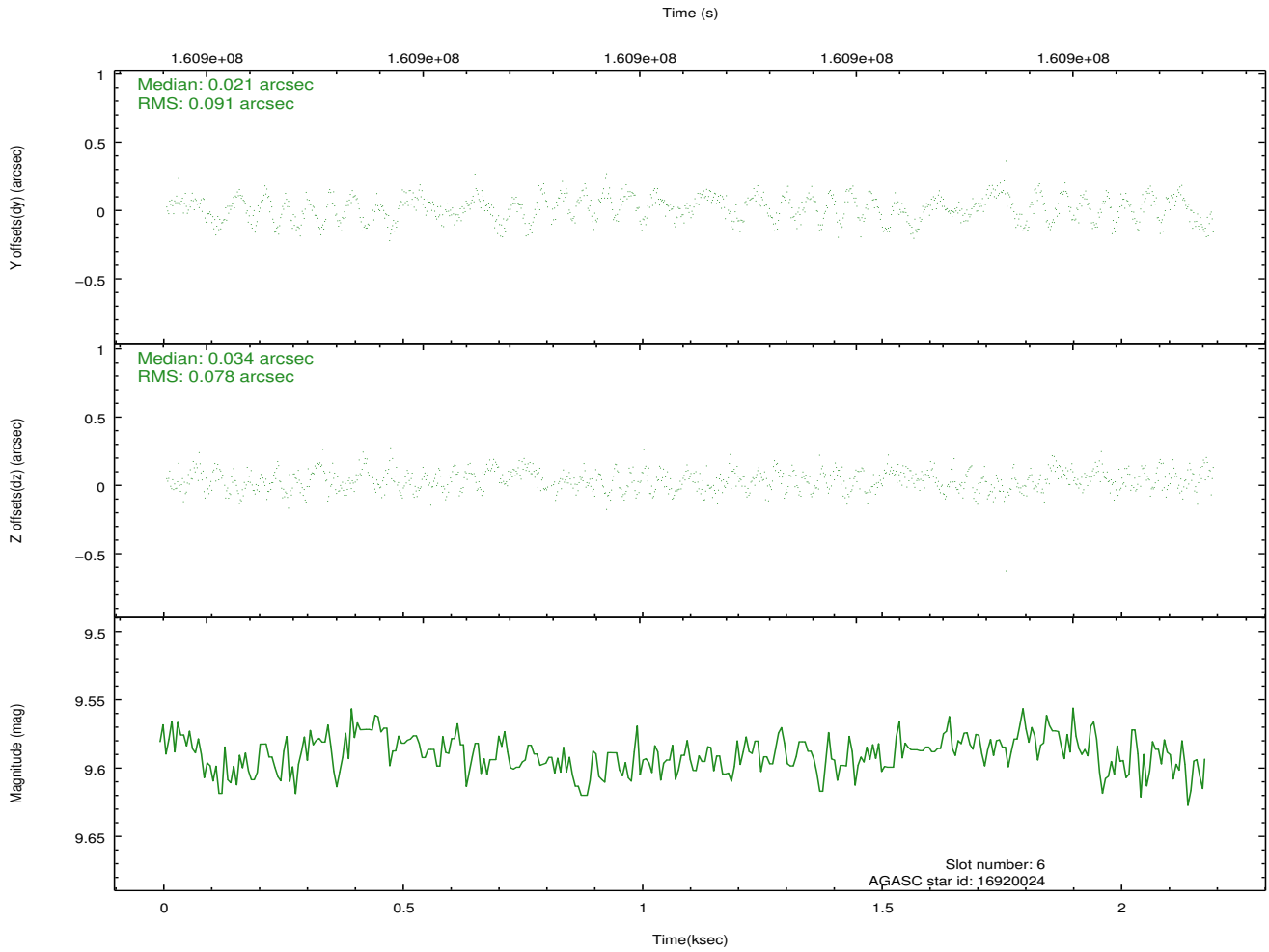
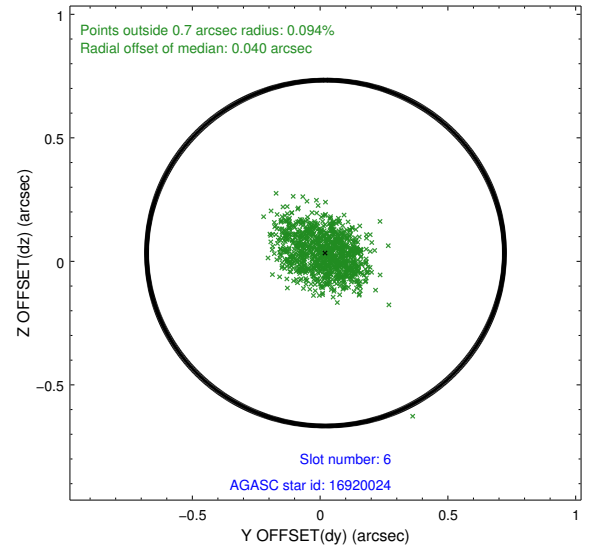
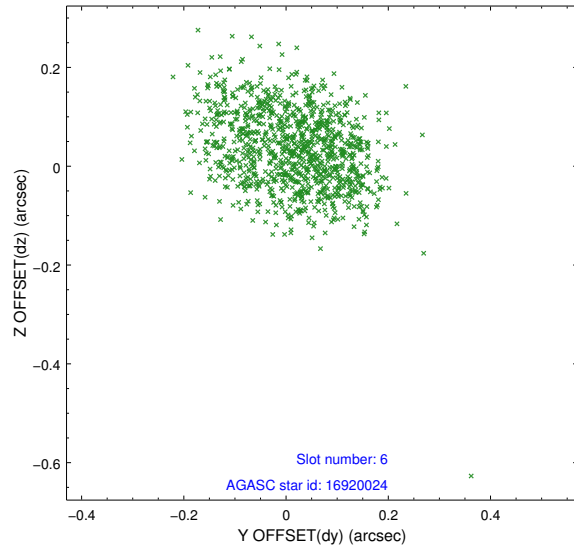
## 2.4.2 Slot 4



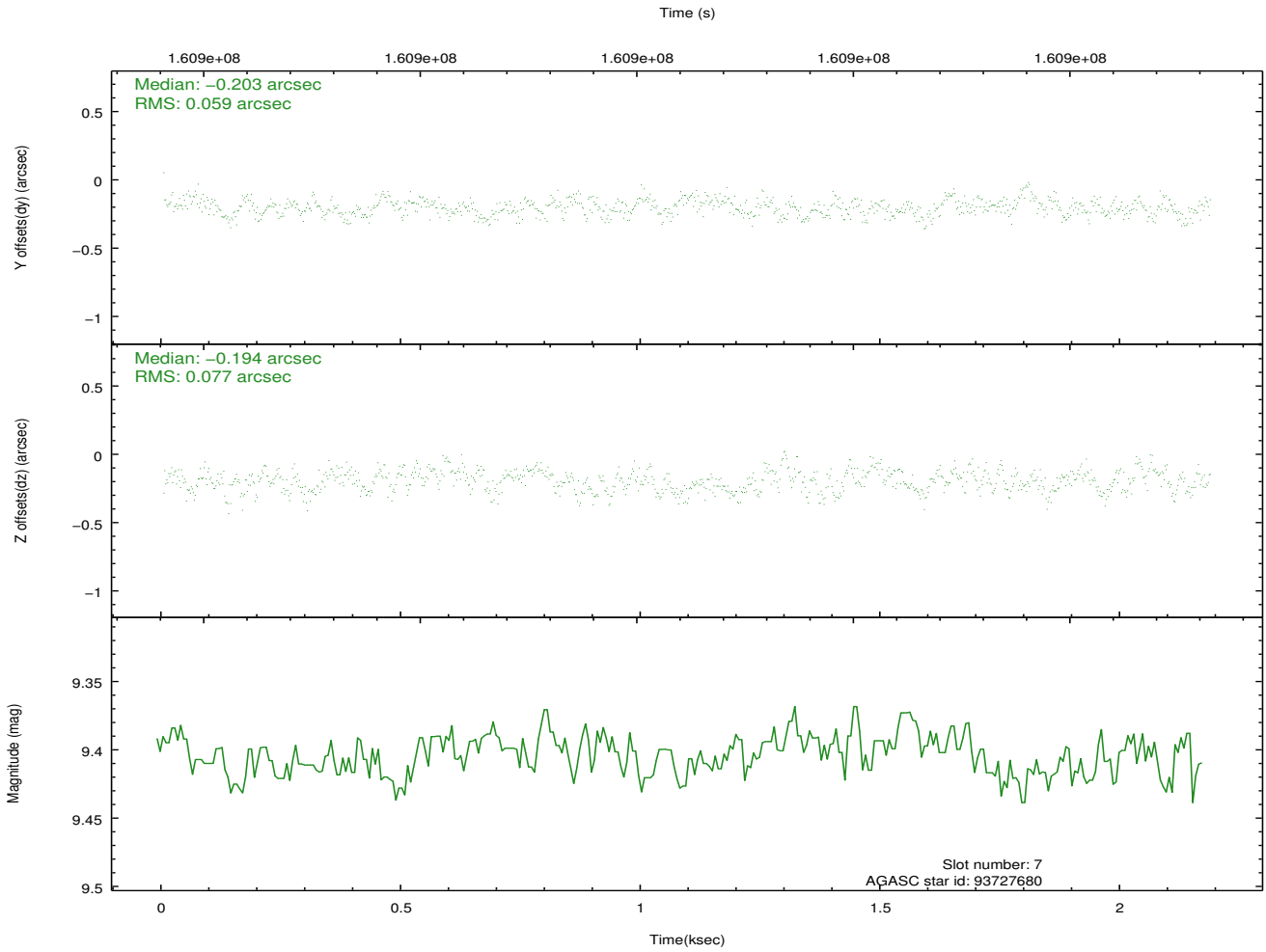
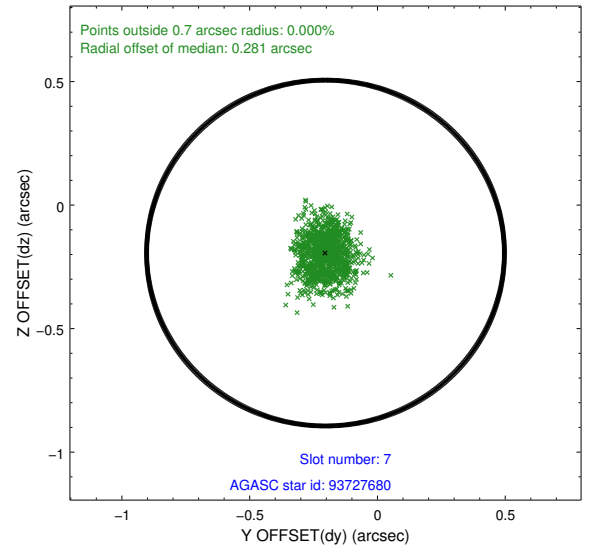
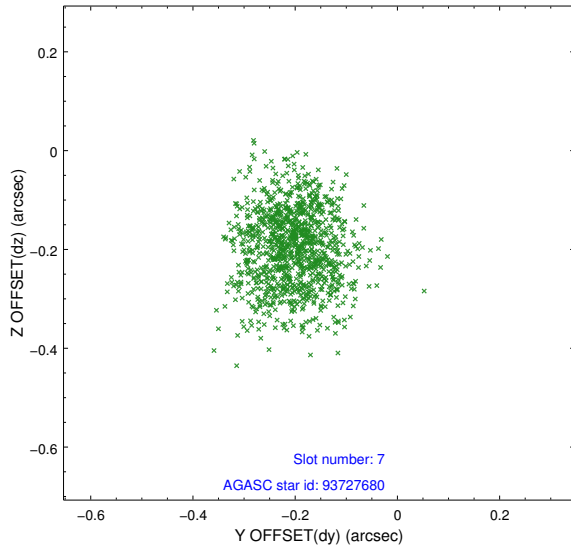
### 2.4.3 Slot 5



## 2.4.4 Slot 6

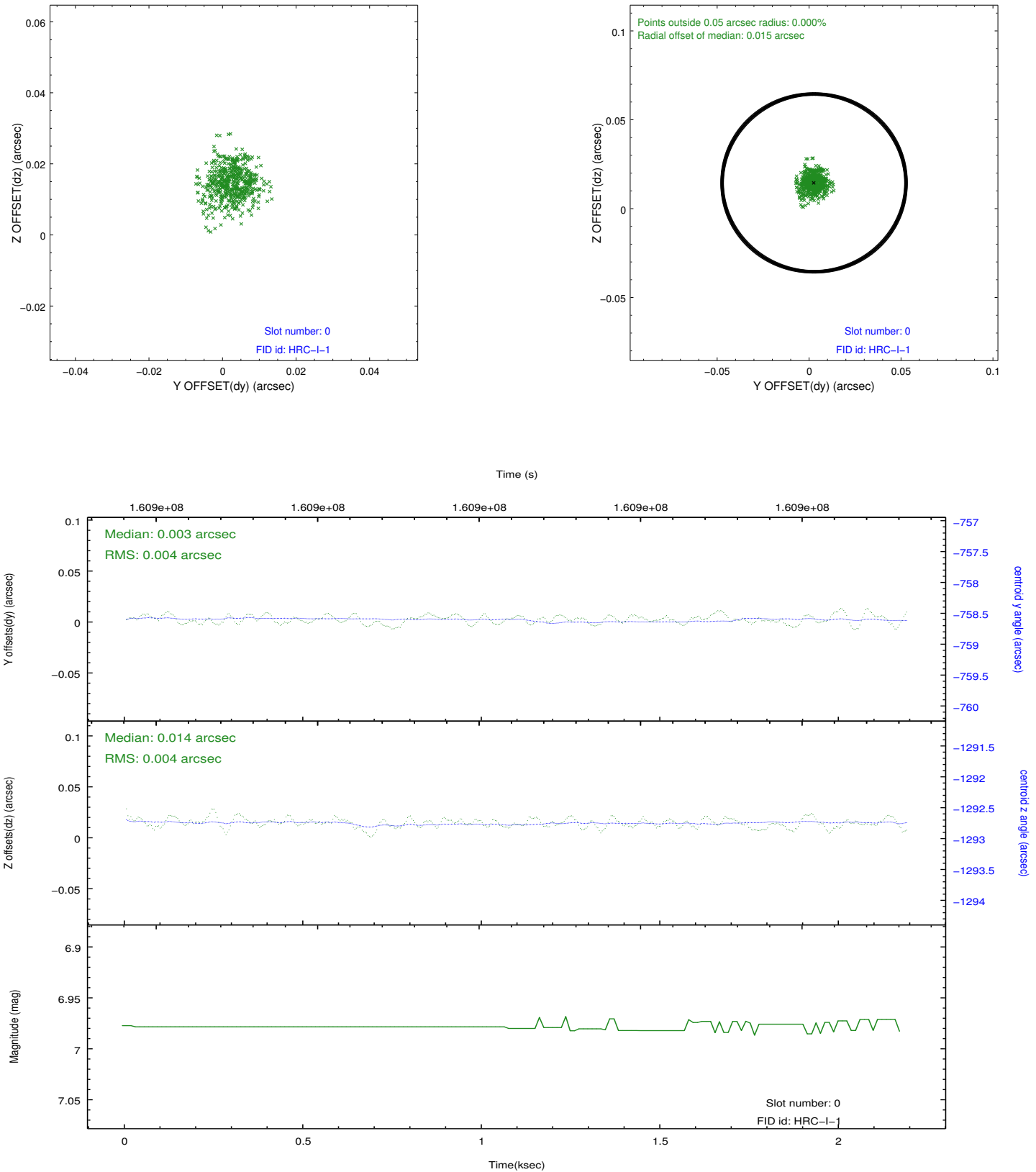


## 2.4.5 Slot 7

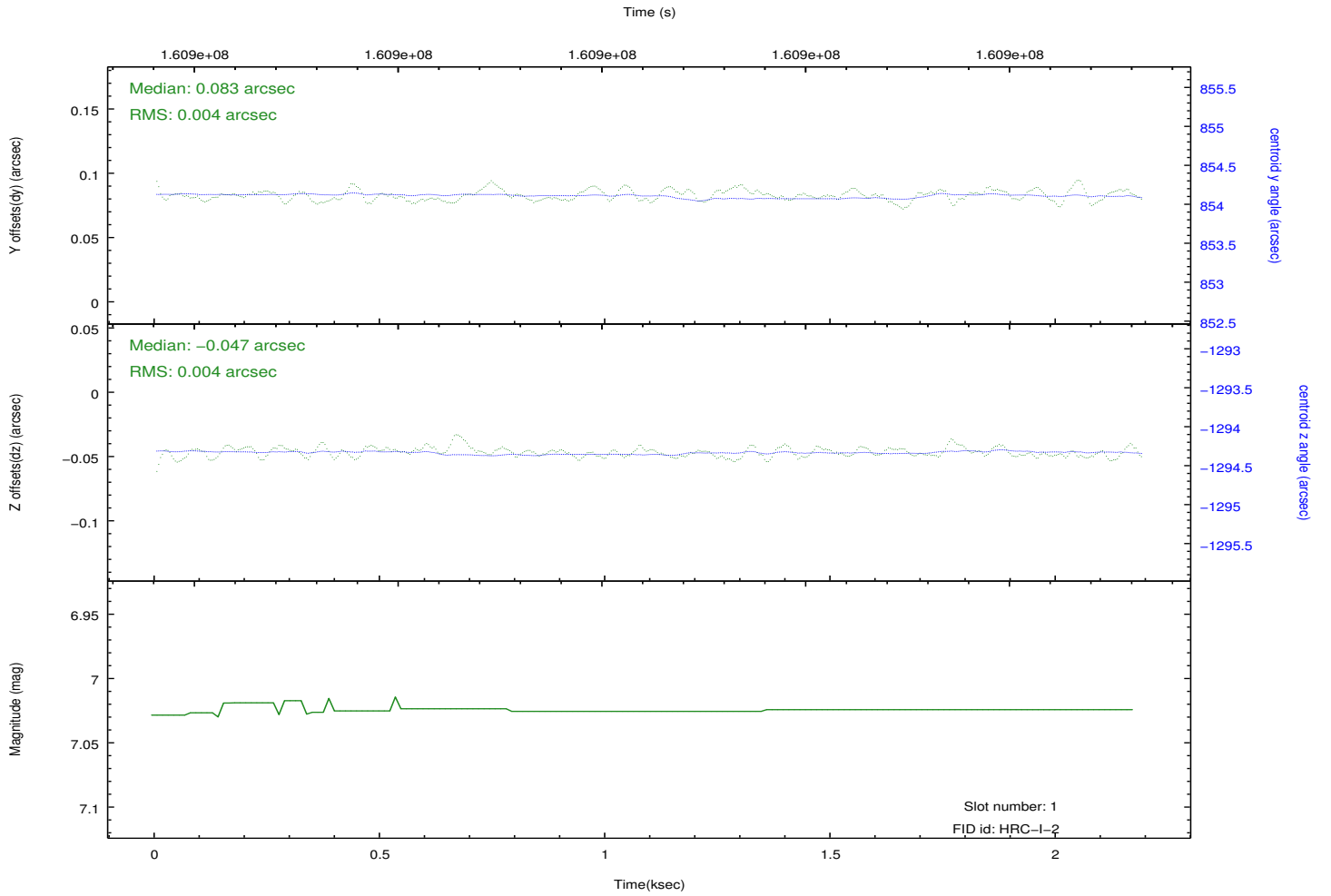
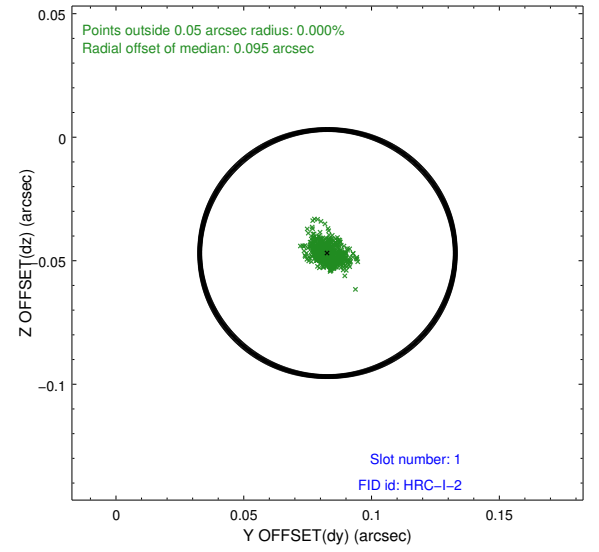
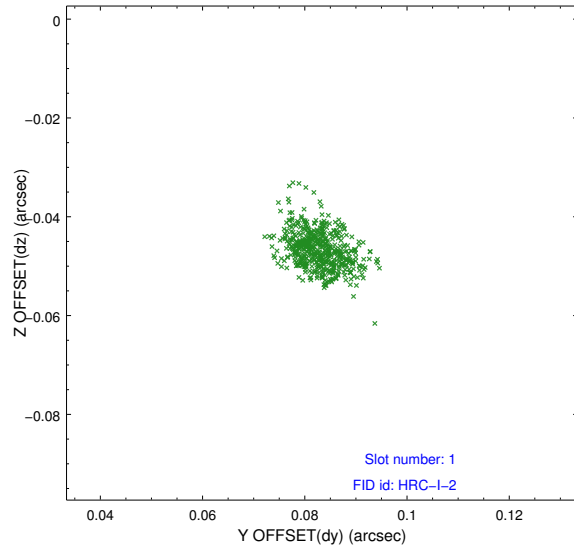


## 2.5 FID Slots

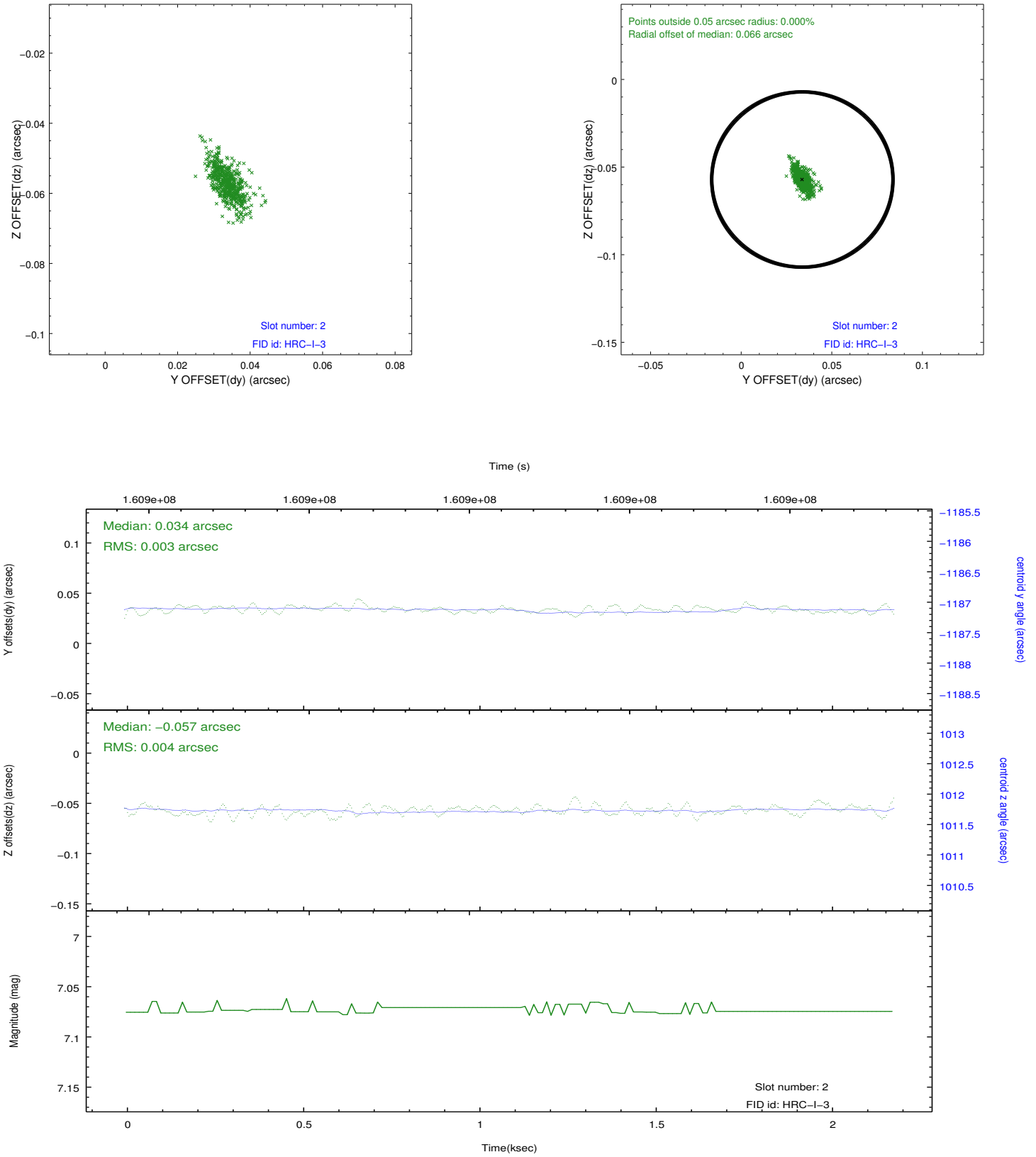
### 2.5.1 Slot 0



## 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)	2012.11.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.893

### A.2 Comments

Window constraint met.