

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19834 - L2 Version 1
Chandra X-Ray Center

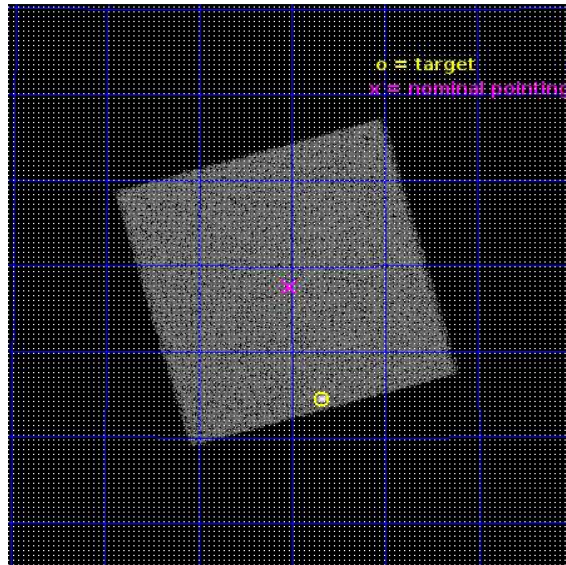
L2 Processing Date : Sep 18 2017

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1 Front

seq_num	291351	Sequence number
obs_id	19834	Observation id
title	AO-18 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	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	332.25671409217	Nominal RA [deg]
dec_nom	45.960447945237	Nominal Dec [deg]
roll_nom	209.12536147754	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1175.6750688553	[s]
livetime	1161.2448978834	Ontime multiplied by DTCOR
l2events	125187	Number of level 2 events

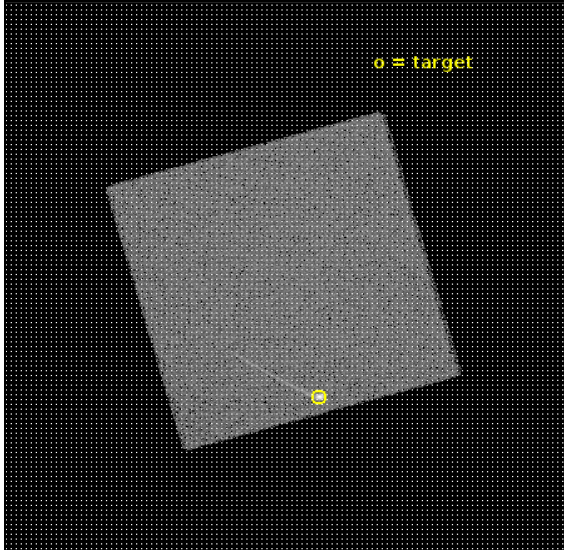


2 OBI

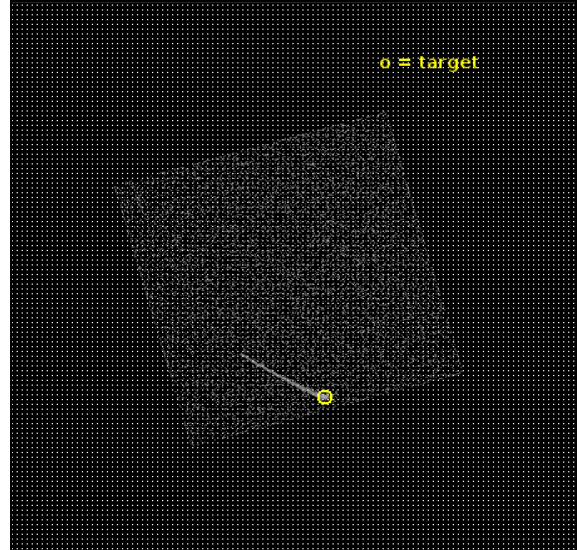
2.1 OBI

2.1.1 Images

Level 1 Image



Level 1 Bad Events



2.1.2 Parameters

obi_num	1	Obi number	sched_exp_time	1000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	1175.6750688553	[s]
caldbver	4.7.6	 	l1events	236733	Number of level 1 events
date	2017-09-18T03:51:50	Date and time of file creation			
revision	1	Processing version of data			

2.1.3 Events

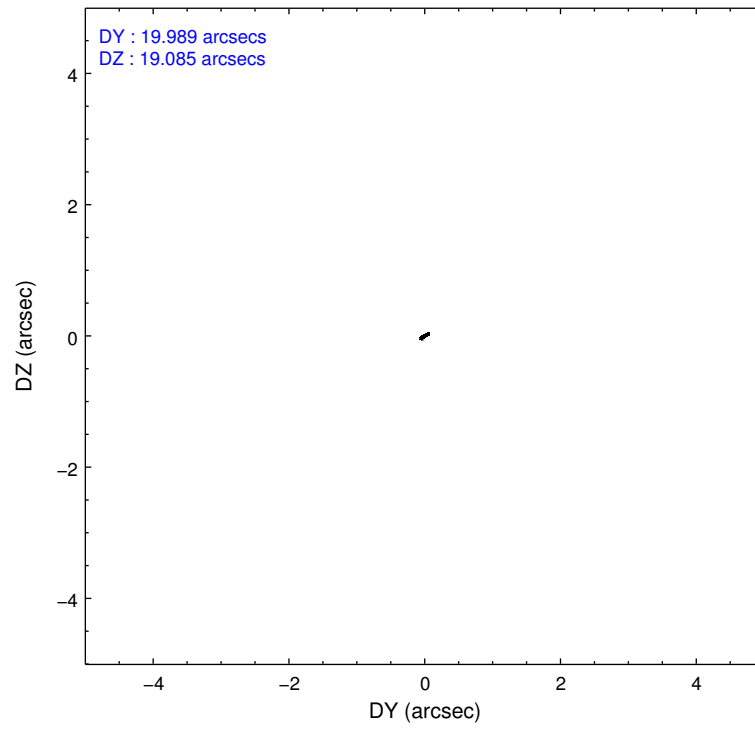
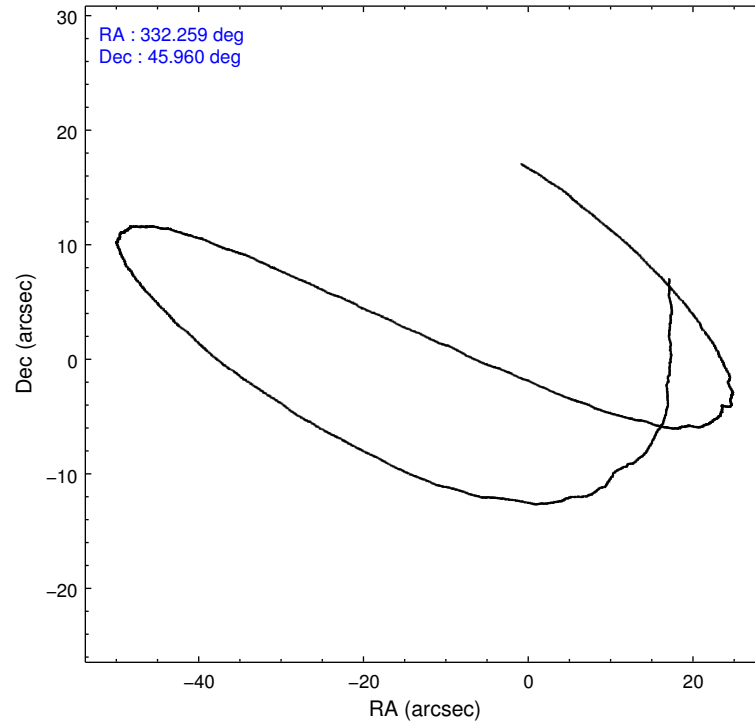
Level 1 Events

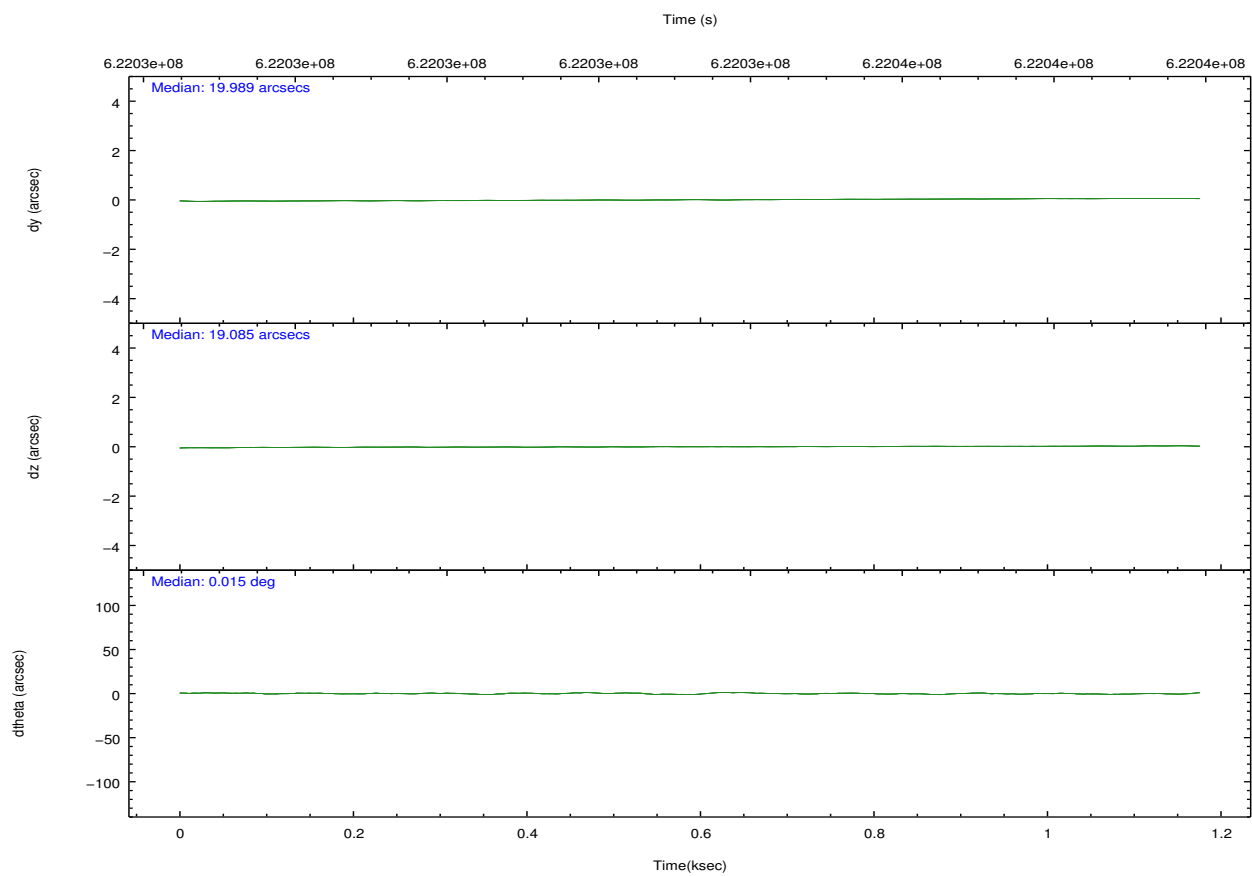
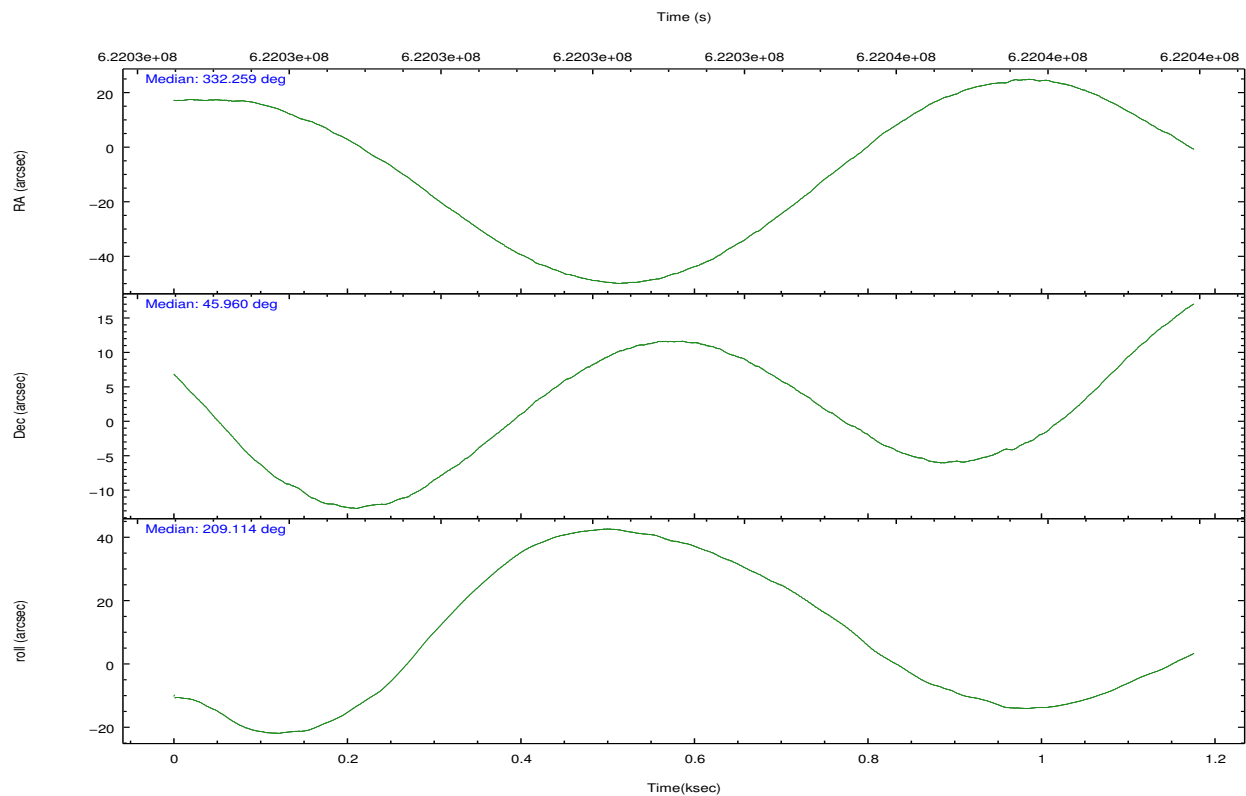
	segment 0
level 1 events	236733
rejected events	72452
rejected %	30%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
Detector	HRC-I	HRC-I	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
[deg] Pointing RA	332.274896	332.2567140921744			
[deg] Pointing Dec	45.985029	45.96044794523661			
[deg] Pointing Roll	209.207760	209.1253614775415			
[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)	622034308.184000	622033932.41715			
Observation start date	2017-09-17T11:17:19	2017-09-17T11:12:12			
[s] Observation end time (MET)	622035308.184000	622035626.74225			
Observation end date	2017-09-17T11:33:59	2017-09-17T11:40:26			

2.3 Aspect



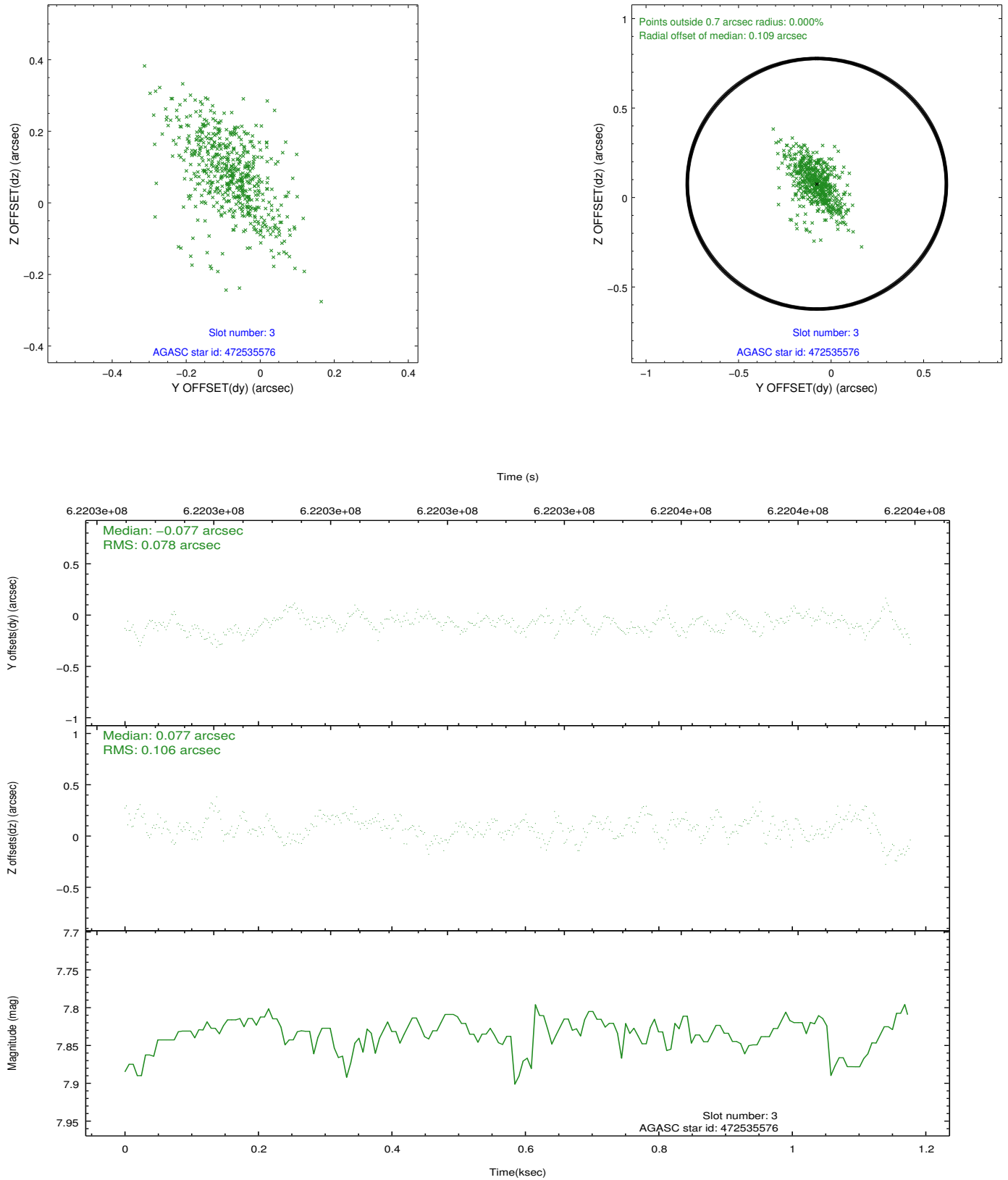


Slot Statistics

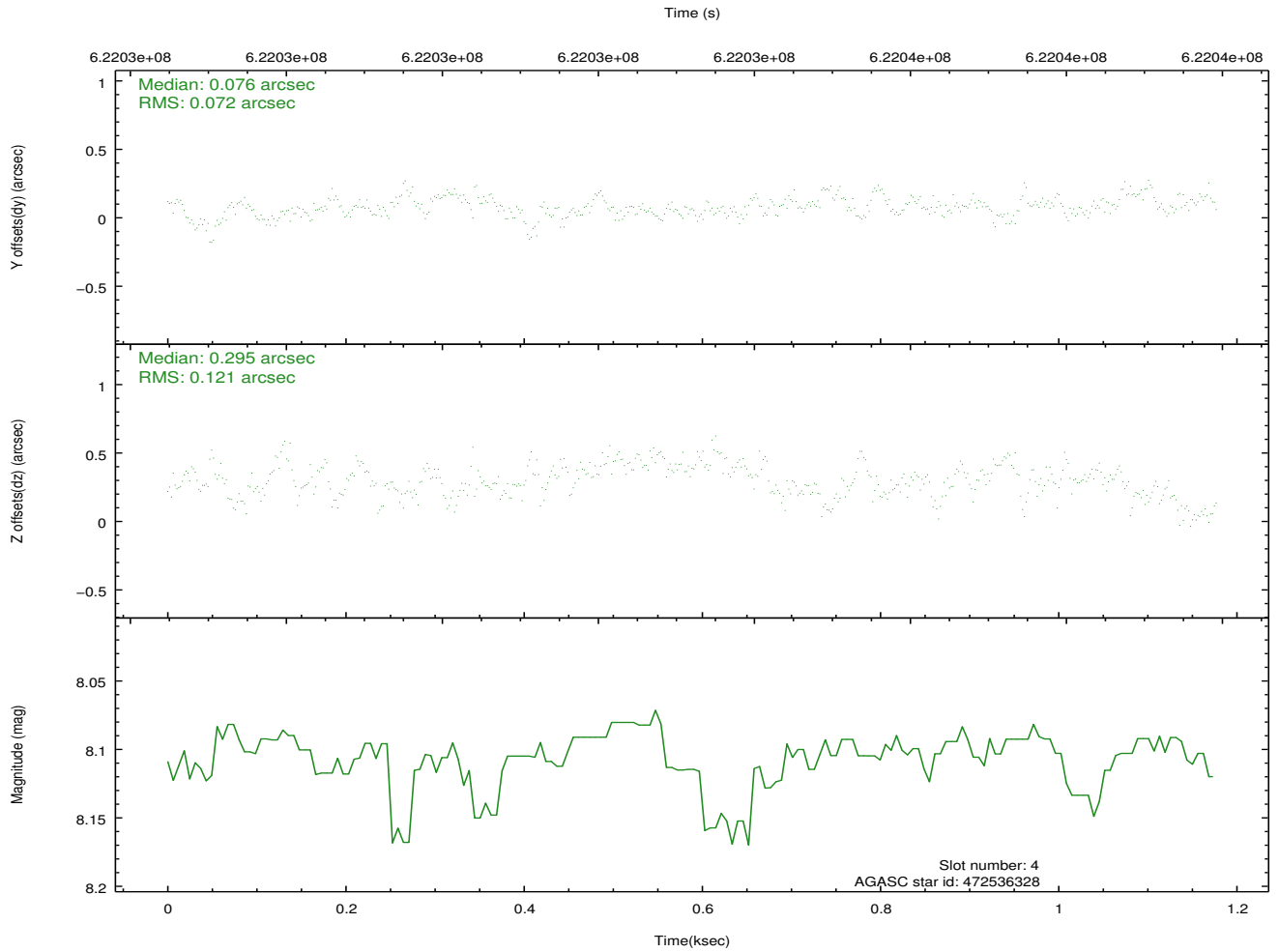
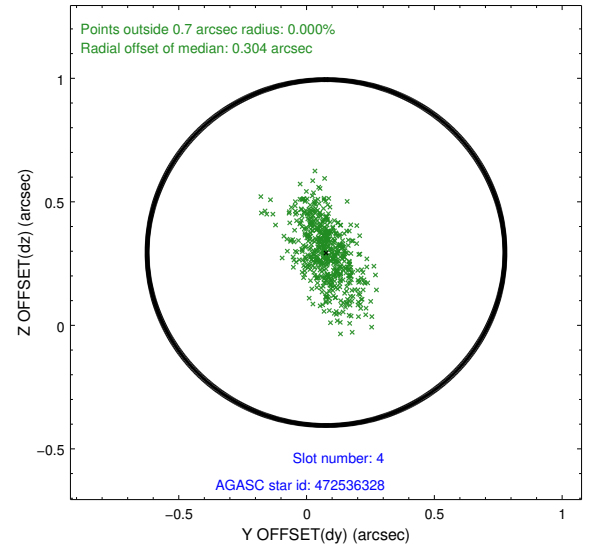
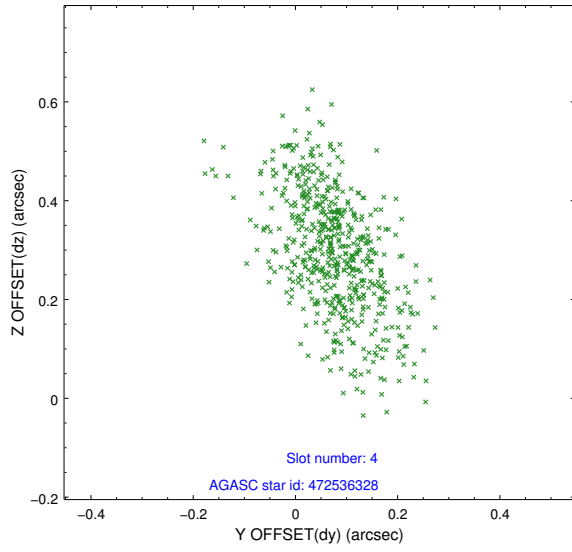
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-I-1	7.03	288	-0.318	-0.219	0.005	0.009	0.000000	0.000000	-776.39	-1307.42
1	FID		HRC-I-2	7.06	287	0.234	-0.022	0.007	0.011	0.000000	0.000000	834.09	-1313.52
2	FID		HRC-I-4	7.04	287	0.201	0.149	0.005	0.008	0.000000	0.000000	1270.07	990.32
3	GUIDE	used	472535576	7.83	575	-0.077	0.077	0.131	0.245	331.438373	46.291802	1273.95	-1992.55
4	GUIDE	used	472536328	8.10	575	0.076	0.295	0.146	0.253	331.496671	46.454831	859.13	-2433.27
5	GUIDE	used	472523760	8.21	575	-0.303	-0.368	0.132	0.227	331.645363	45.403260	2410.72	1038.10
6	GUIDE	used	472533912	9.12	573	0.144	0.150	0.213	0.371	331.791136	46.368695	379.33	-1796.97
7	GUIDE	used	472655152	9.39	574	0.183	-0.158	0.229	0.368	332.504239	45.862991	-285.57	656.30

2.4 Star Slots

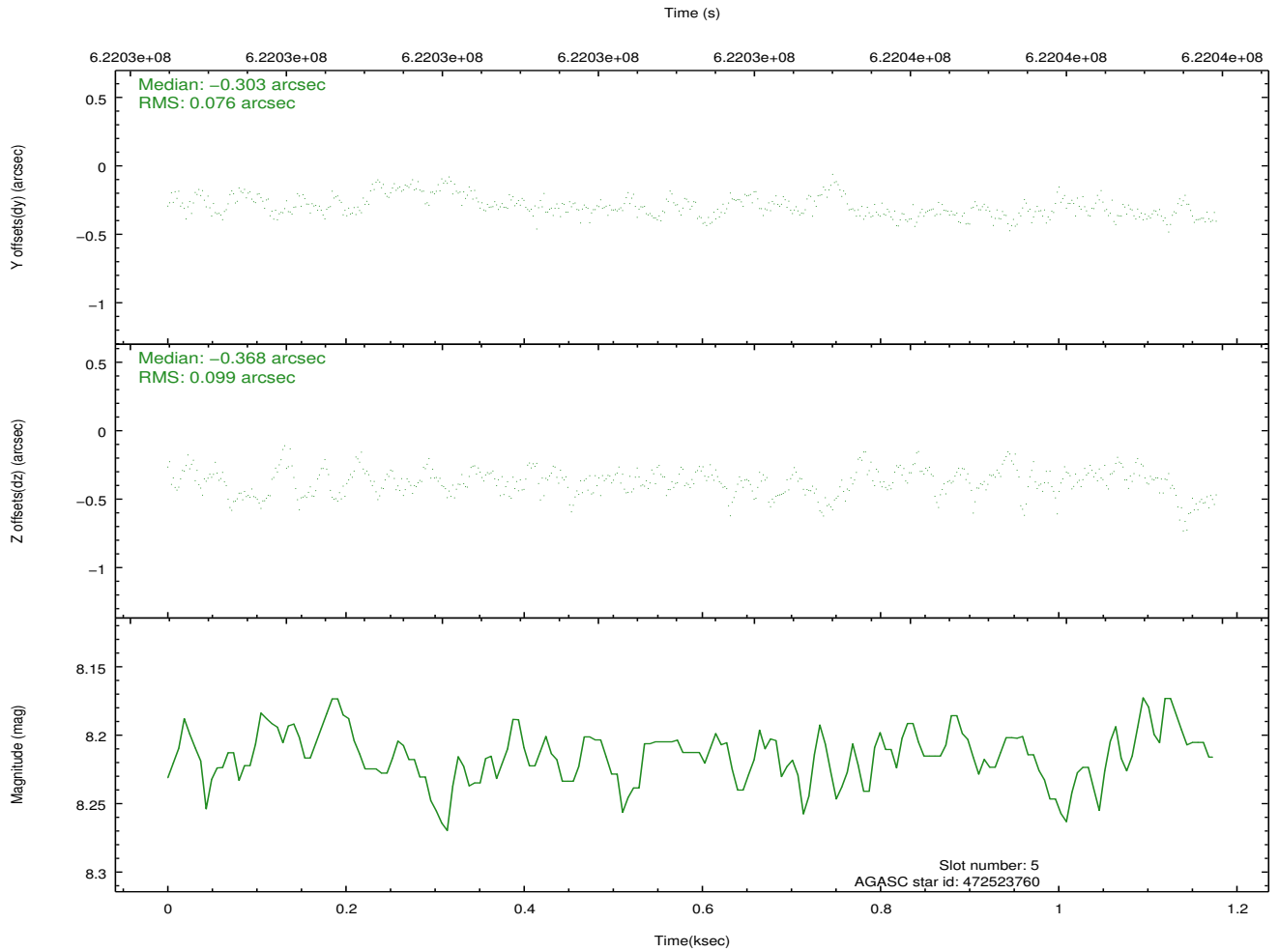
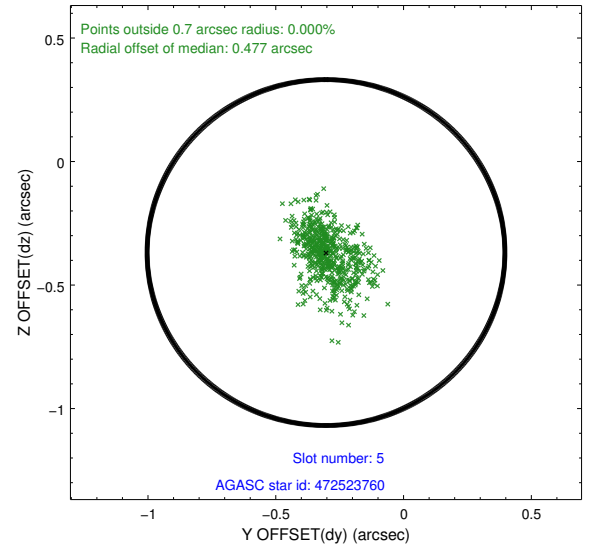
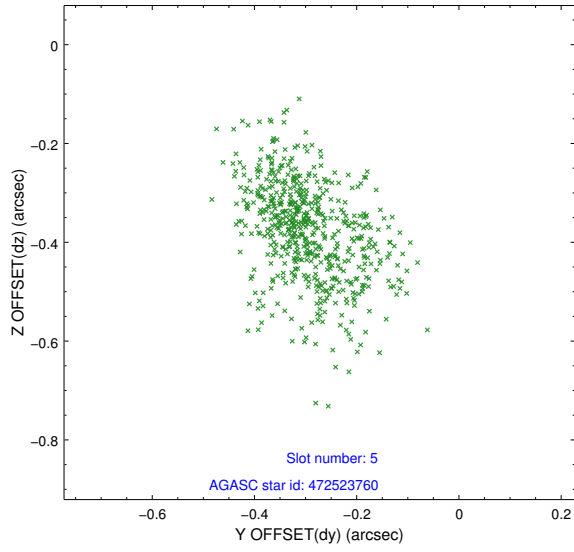
2.4.1 Slot 3



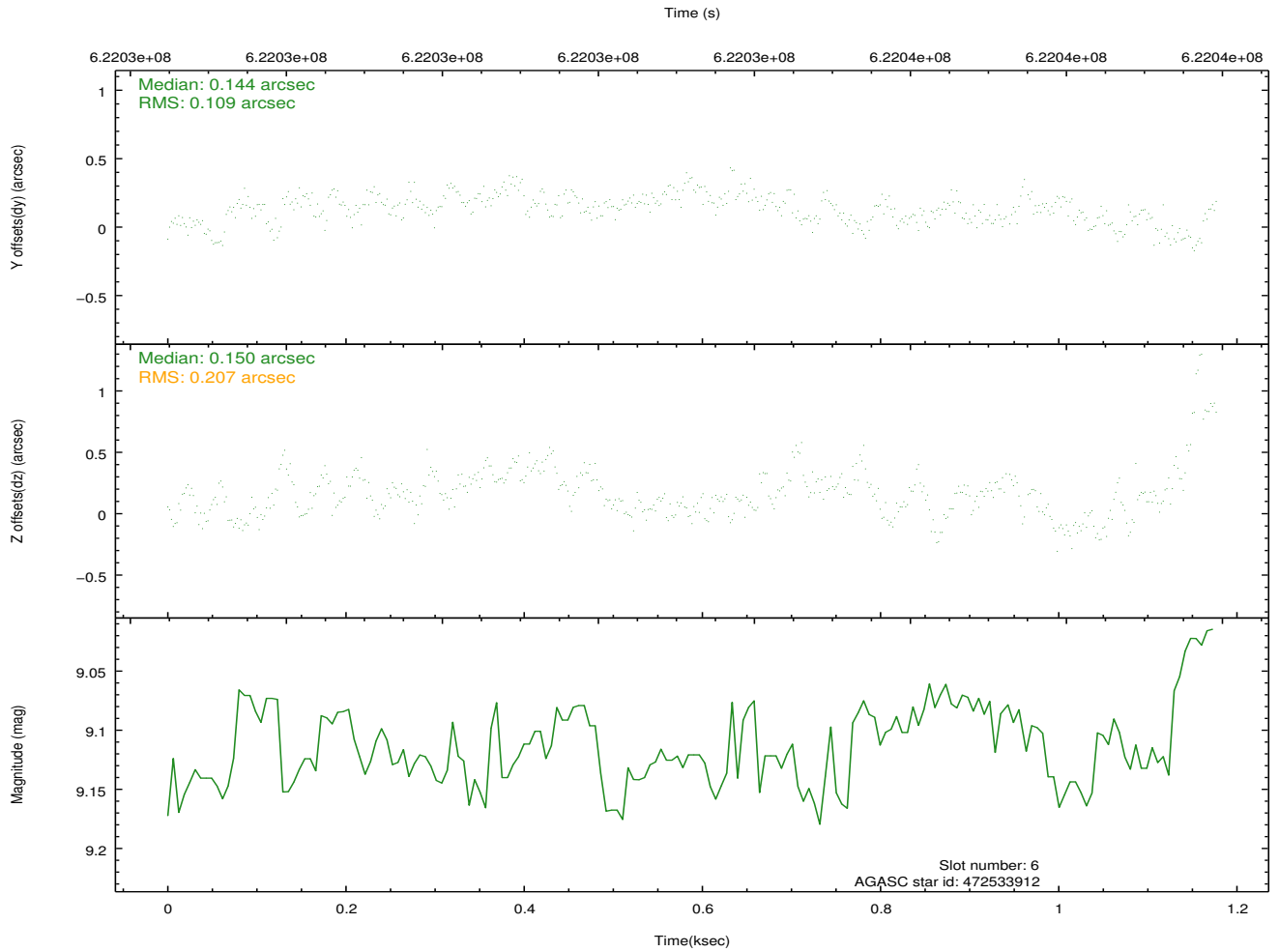
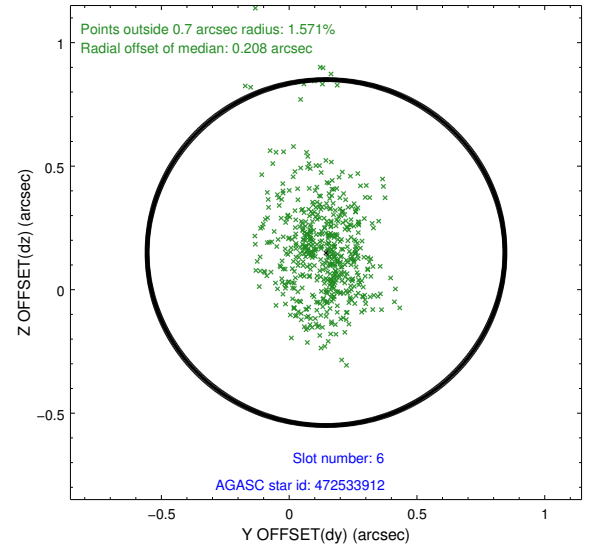
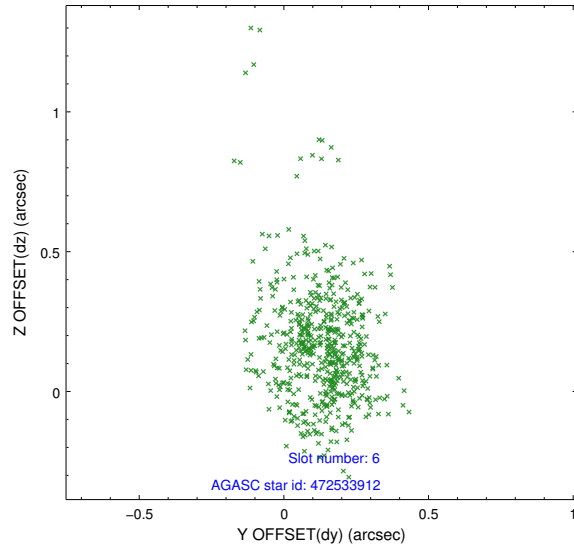
2.4.2 Slot 4



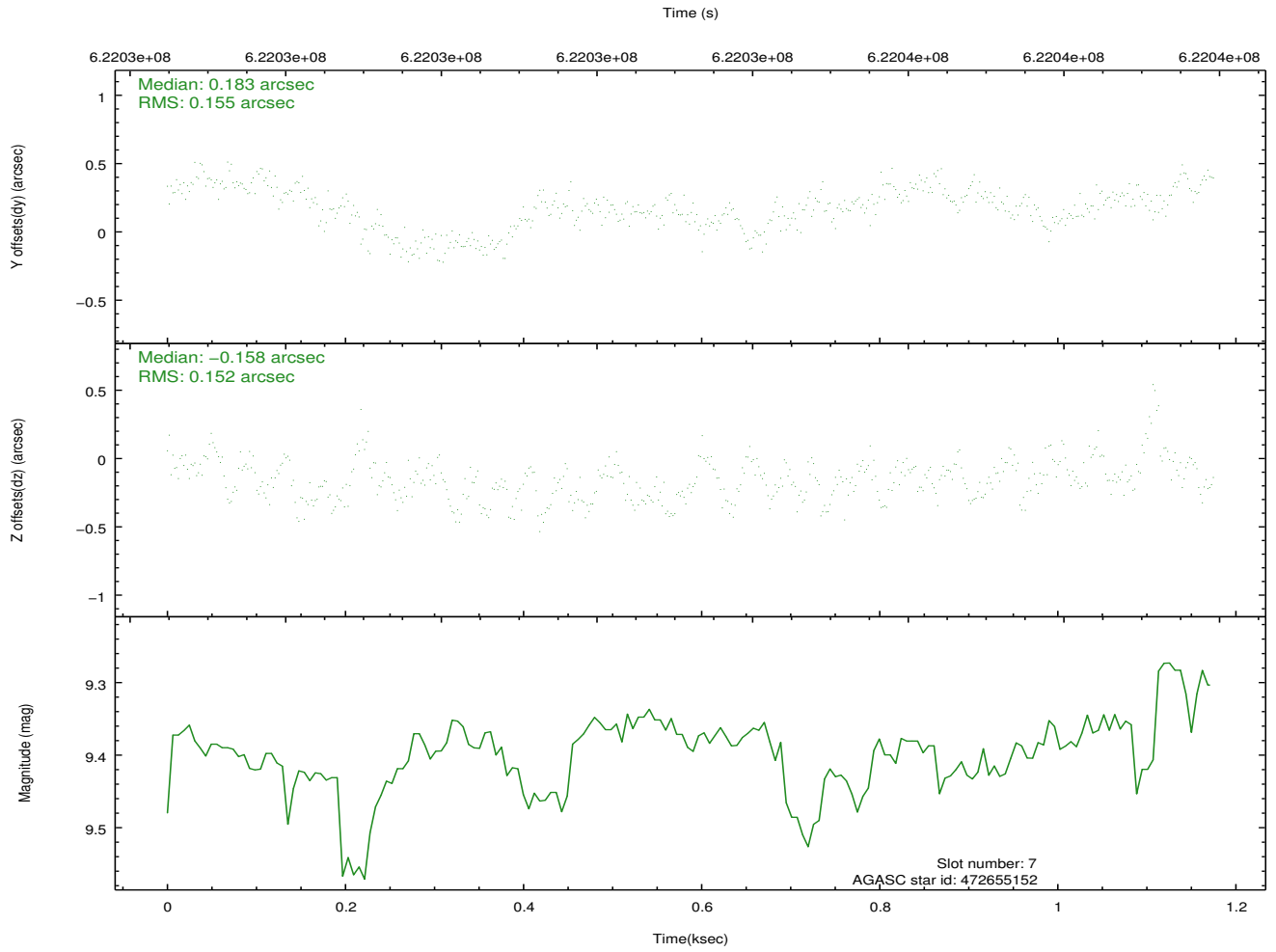
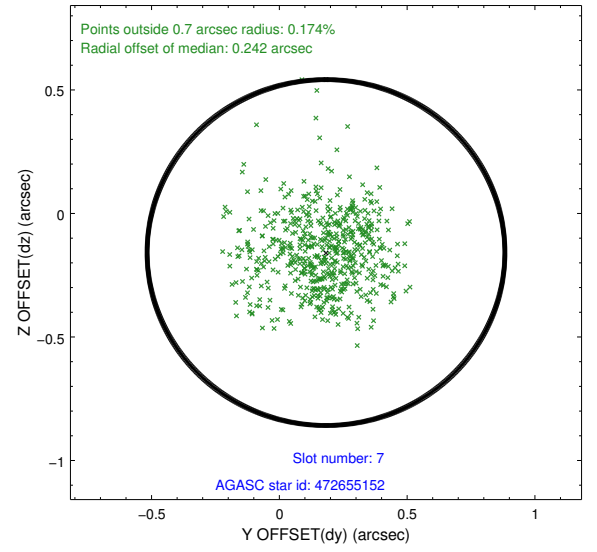
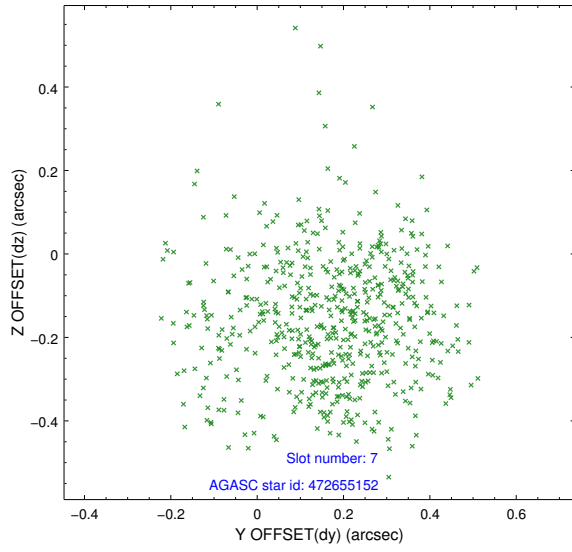
2.4.3 Slot 5



2.4.4 Slot 6

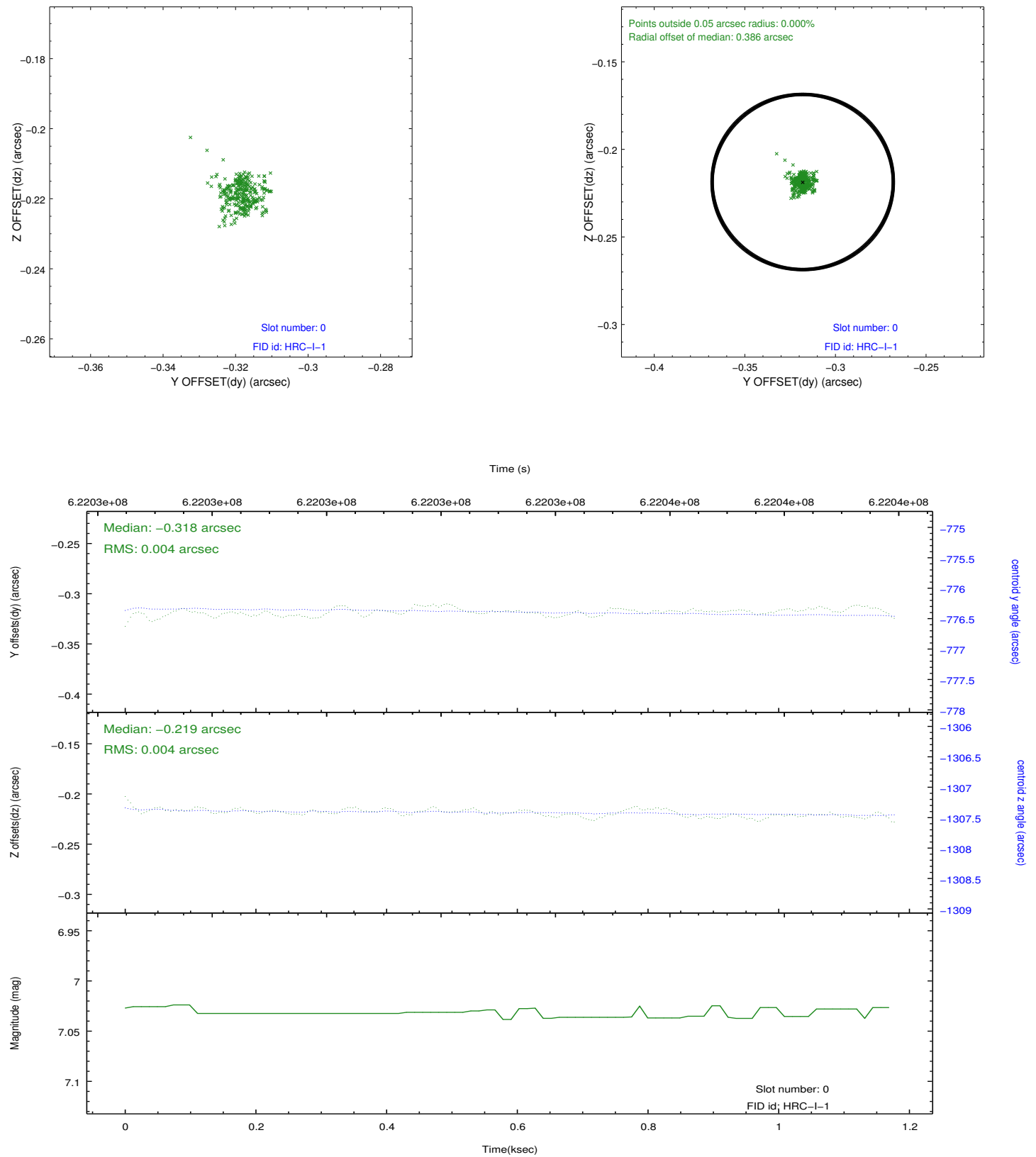


2.4.5 Slot 7

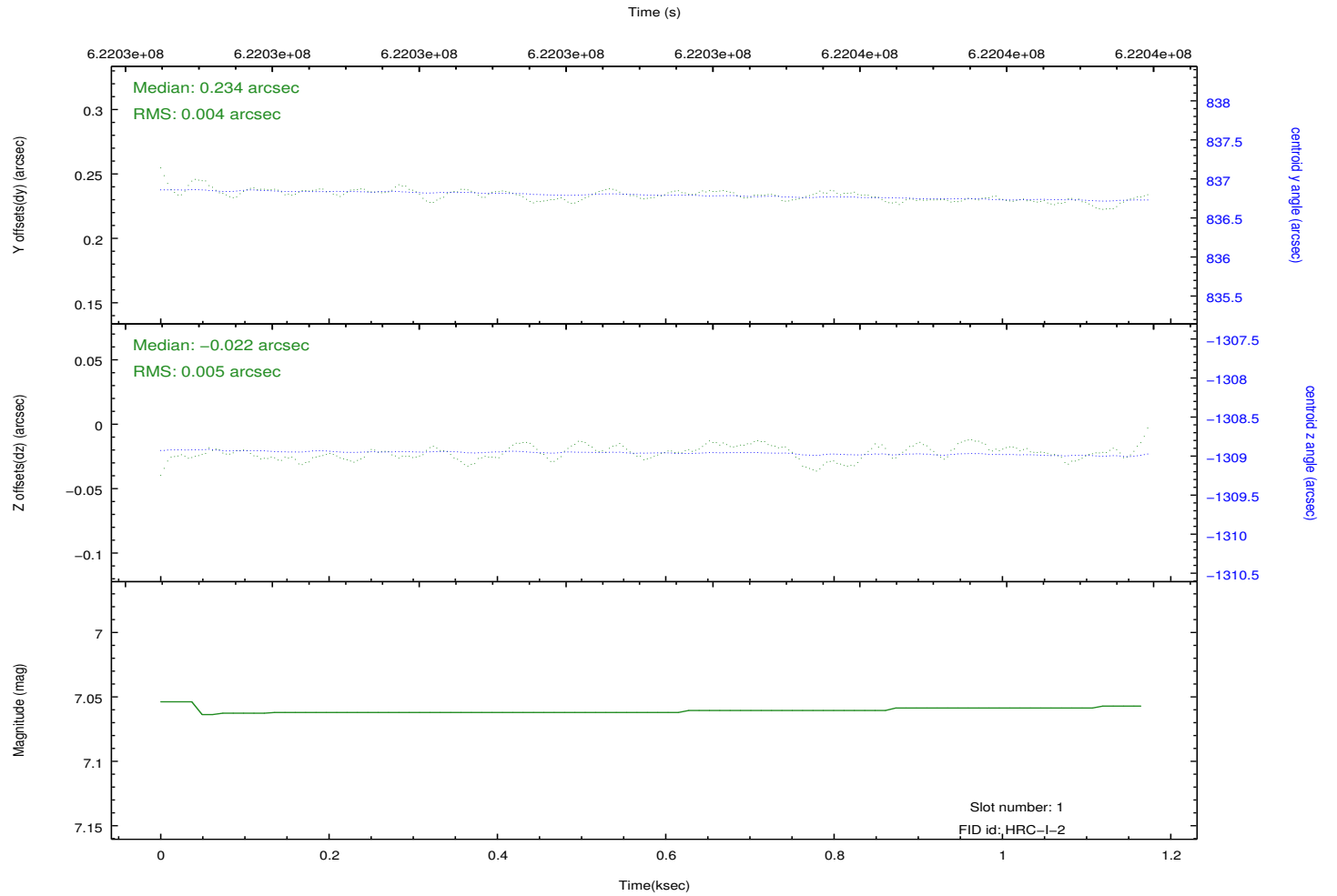
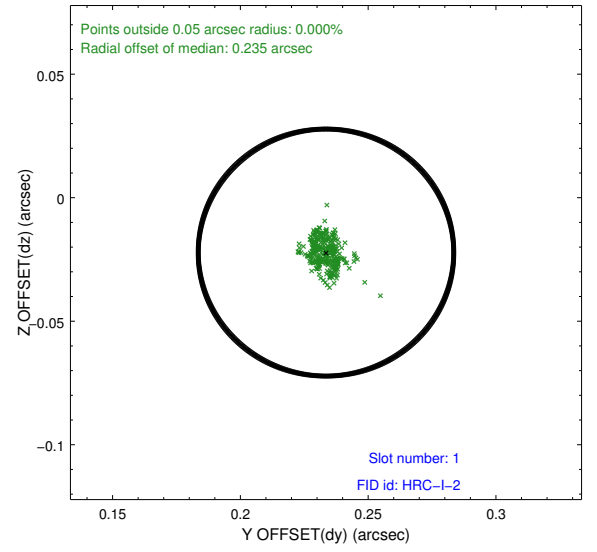
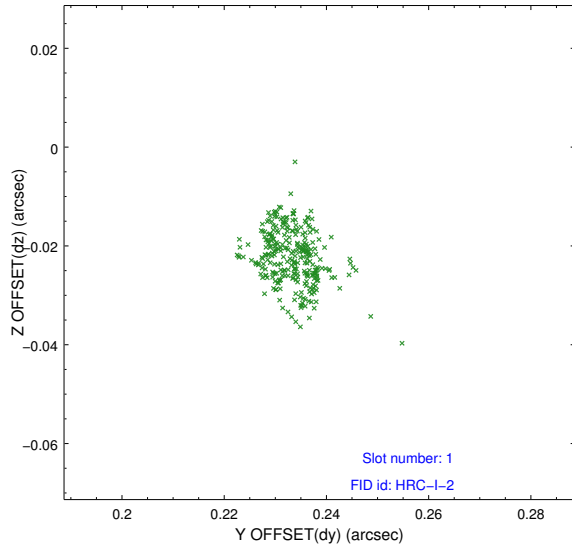


2.5 FID Slots

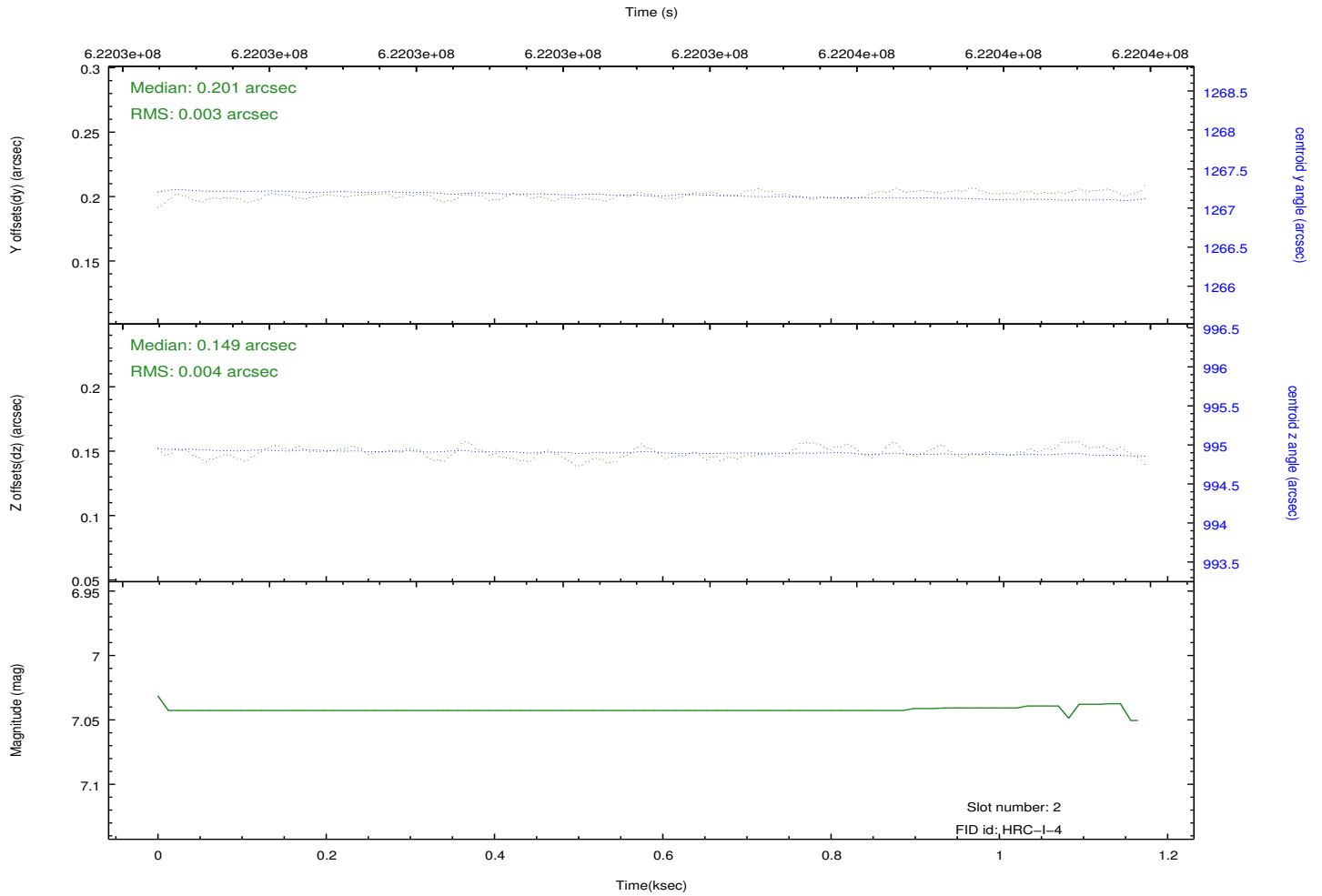
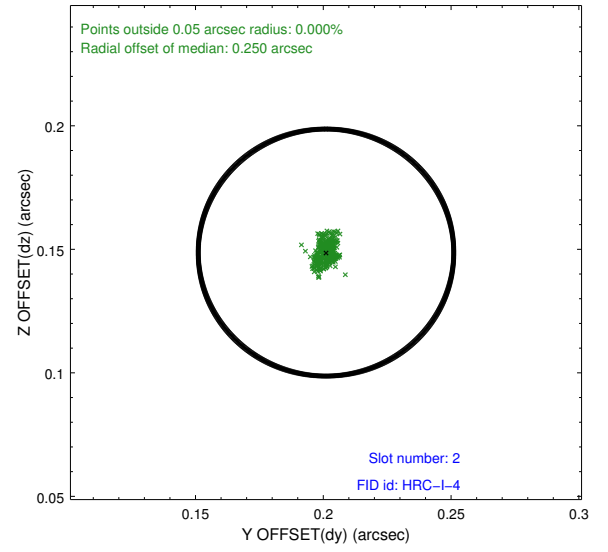
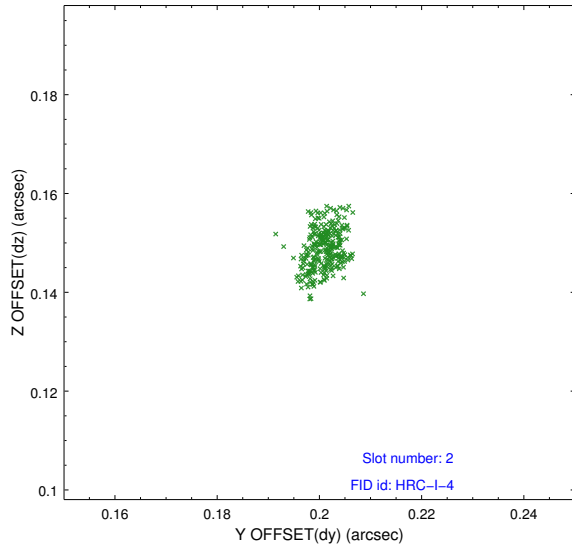
2.5.1 Slot 0



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)	2017.09.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1756750688553

A.2 Comments