

V&V Reference Report

L2 ASCDS Version : 10

Observation 15415 - L2 Version 2
Chandra X-Ray Center

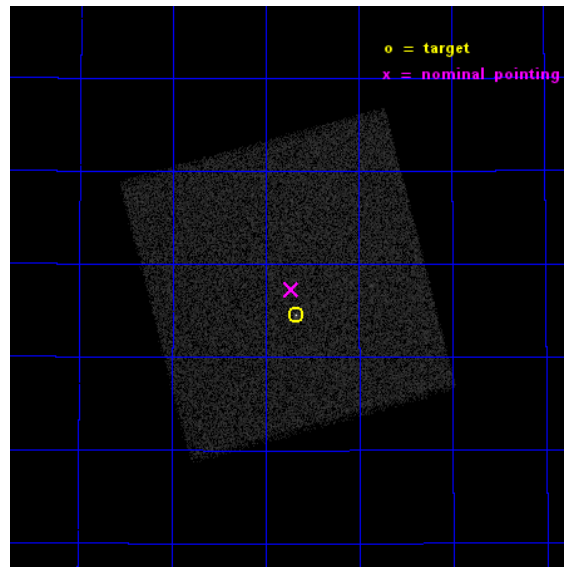
L2 Processing Date : Dec 6 2014

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1 Front

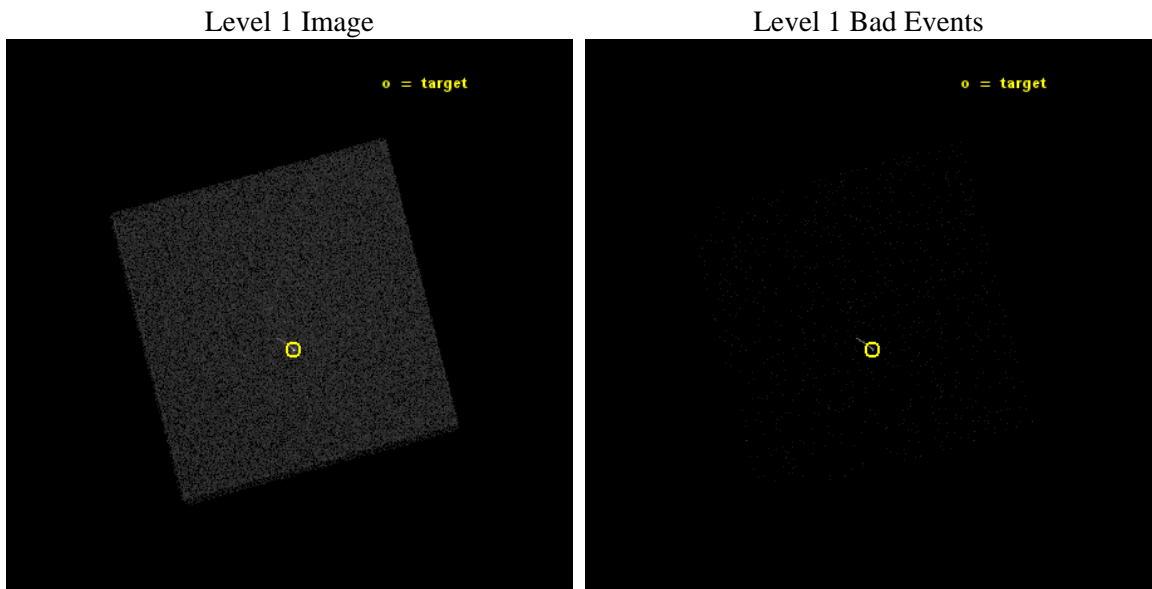
seq_num	291094	Sequence number
obs_id	15415	Observation id
title	AO-14 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.18107374952	Nominal RA [deg]
dec_nom	45.788405780955	Nominal Dec [deg]
roll_nom	210.10099522242	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1188.2313148975	[s]
livetime	1179.0551795339	Ontime multiplied by DTCOR
l2events	72983	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	10.3.1	Processing system revision	ontime	1188.2313148975	[s]
caldbver	4.6.4	 	l1events	122941	Number of level 1 events
date	2014-12-06T14:12:15	Date and time of file creation			
revision	2	Processing version of data			

2.1.3 Events

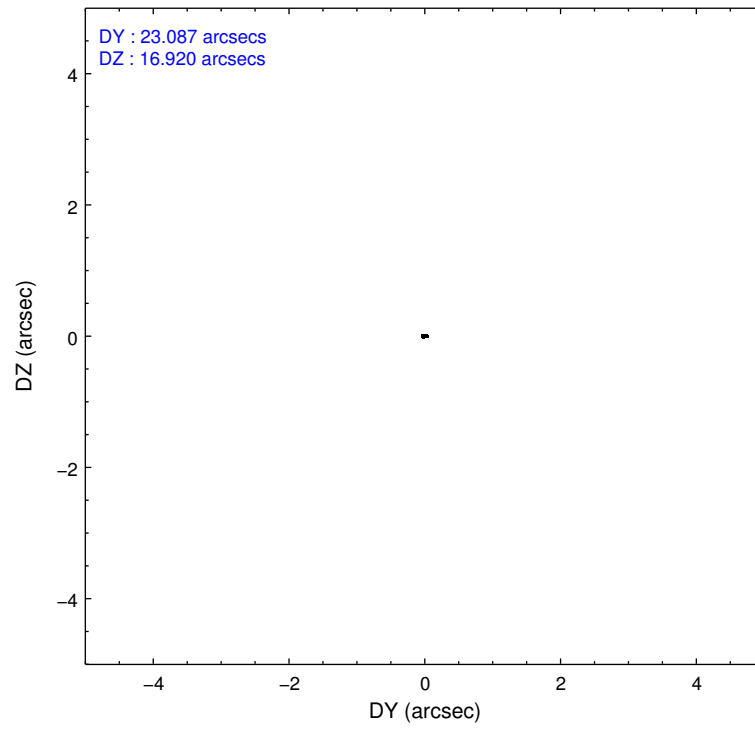
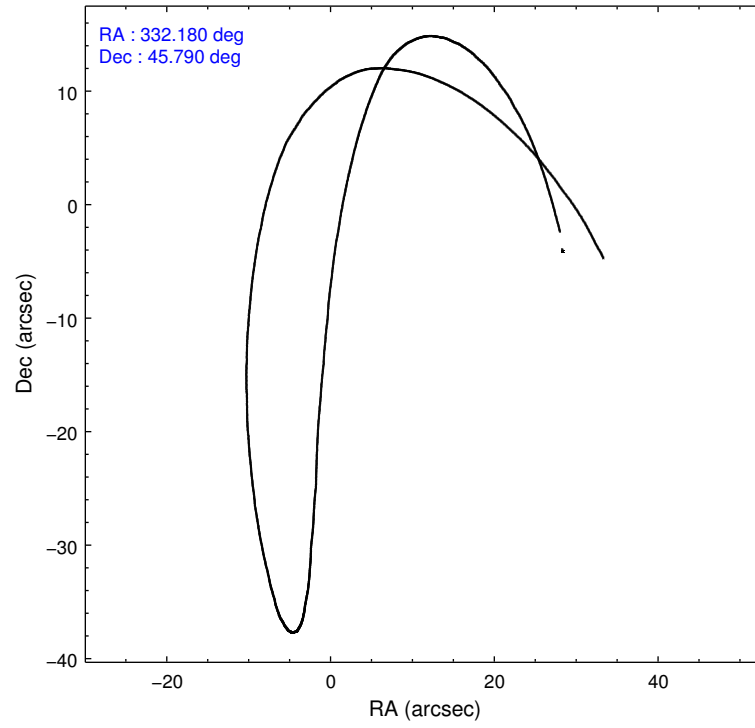
Level 1 Events

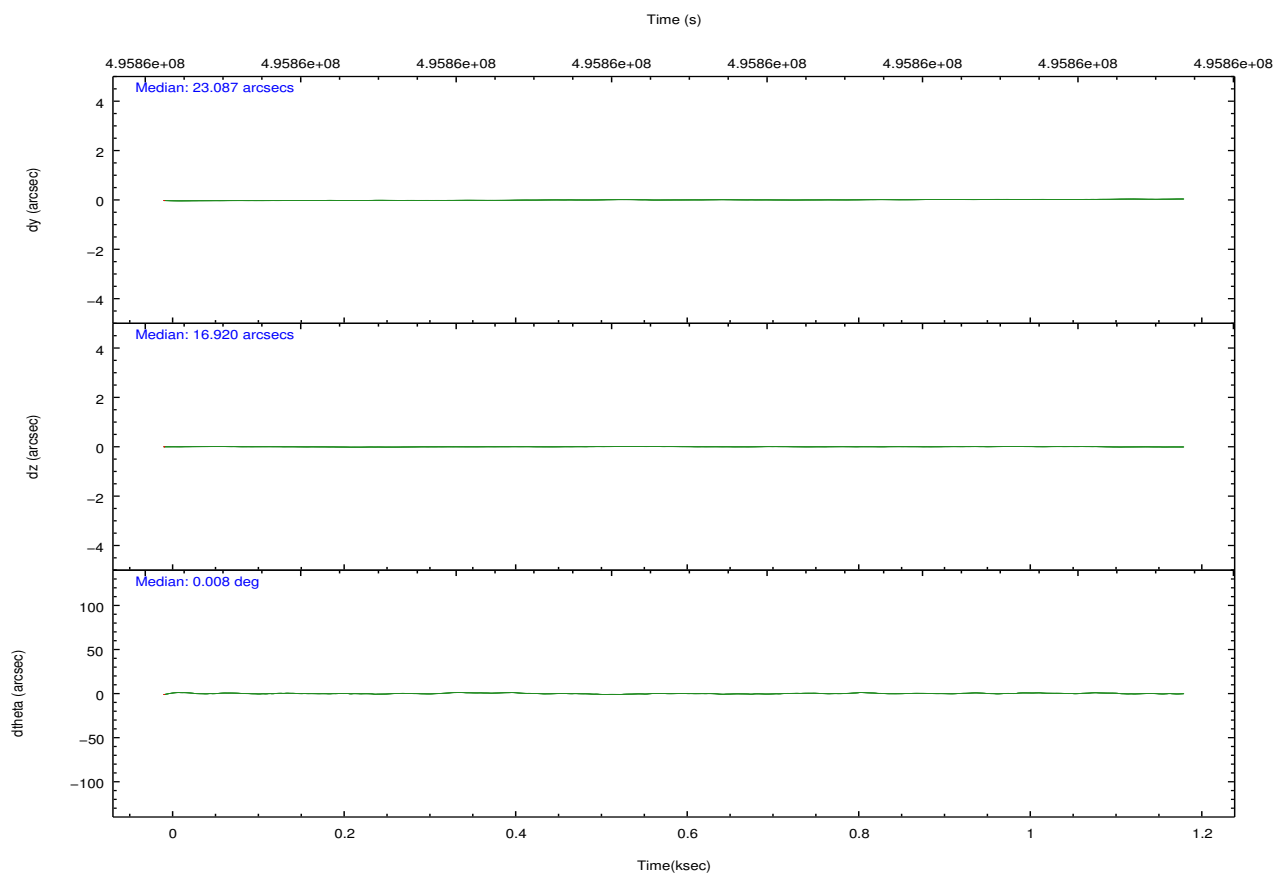
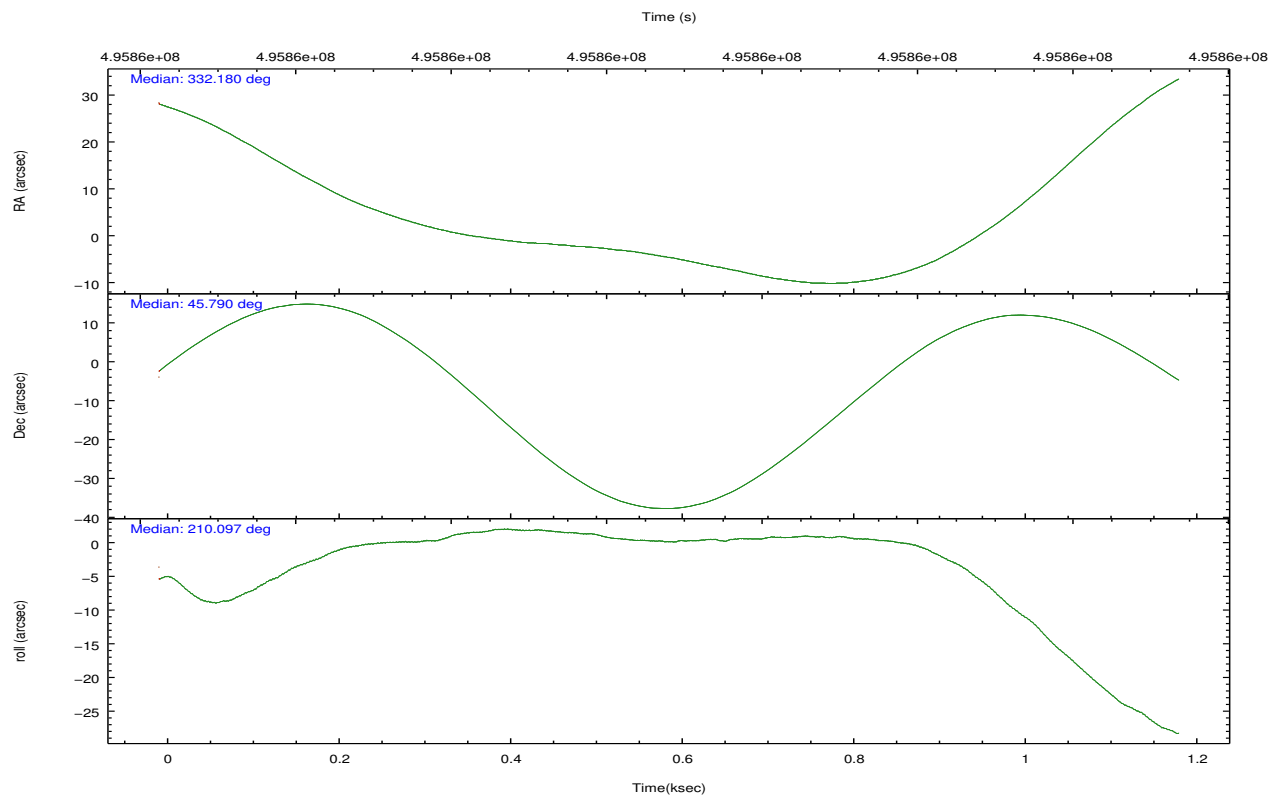
	segment 0
level 1 events	122941
rejected events	26017
rejected %	21%

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	332.199939	332.1810737495215			
[deg] Pointing Dec	45.811145	45.78840578095505			
[deg] Pointing Roll	210.182844	210.1009952224212			
[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)	495857266.184000	495856890.42247			
Observation start date	2013-09-18T02:06:39	2013-09-18T02:01:30			
[s] Observation end time (MET)	495858266.184000	495858400.76005			
Observation end date	2013-09-18T02:23:19	2013-09-18T02:26:40			

2.3 Aspect



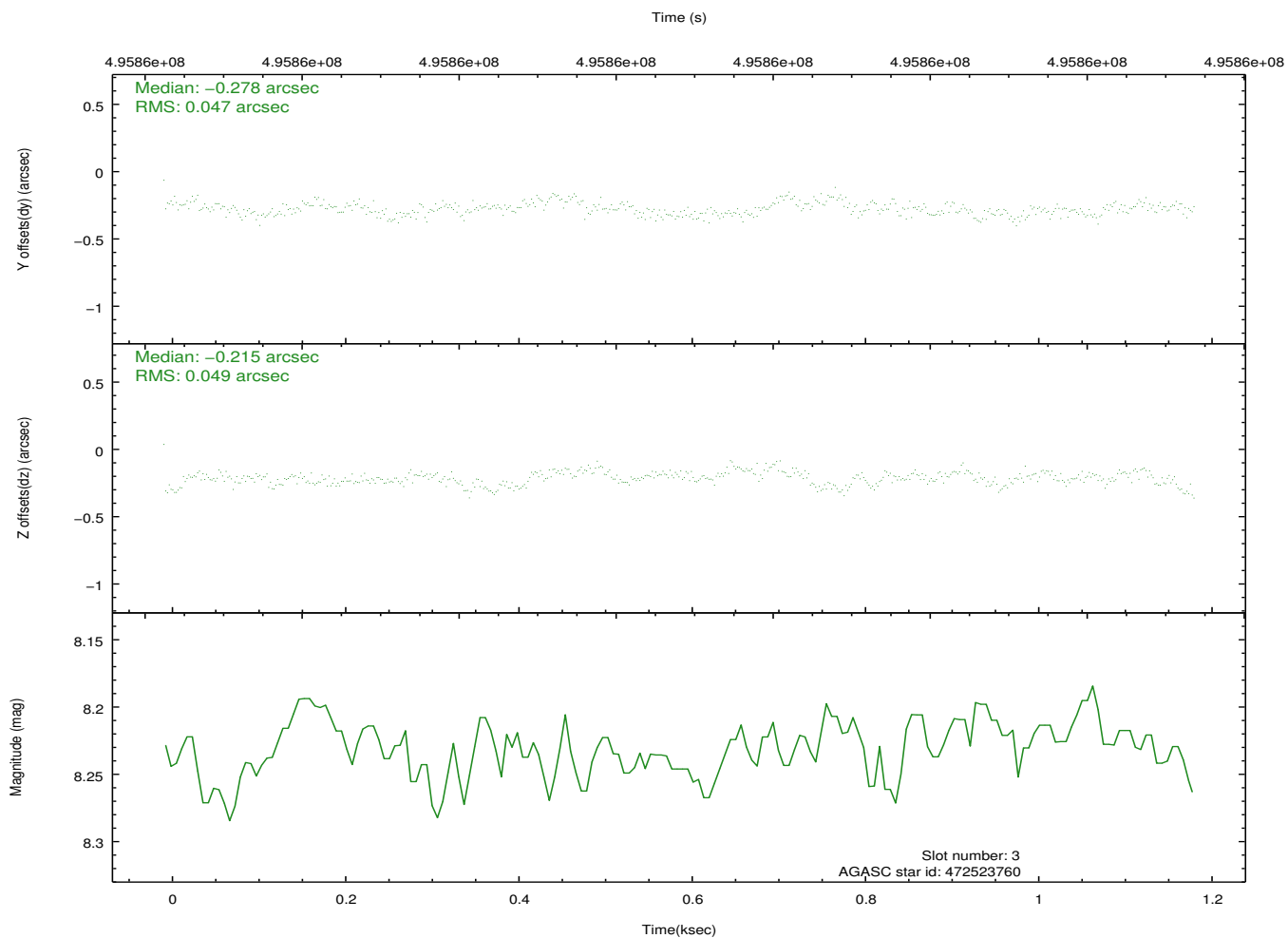
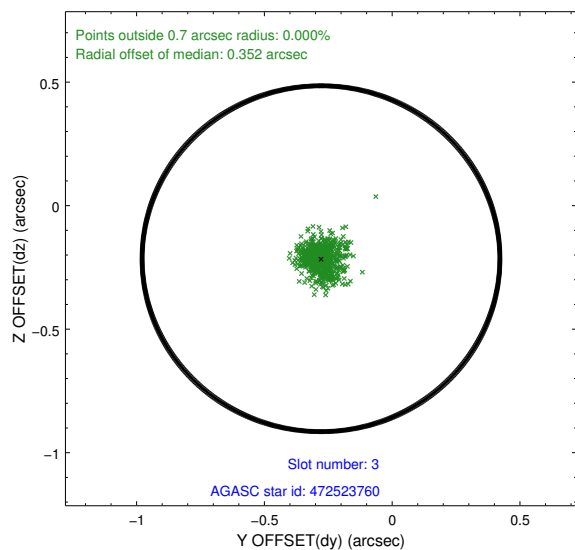
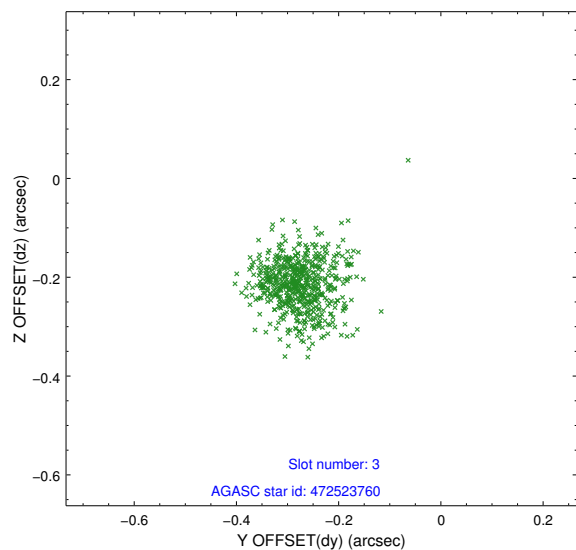


Slot Statistics

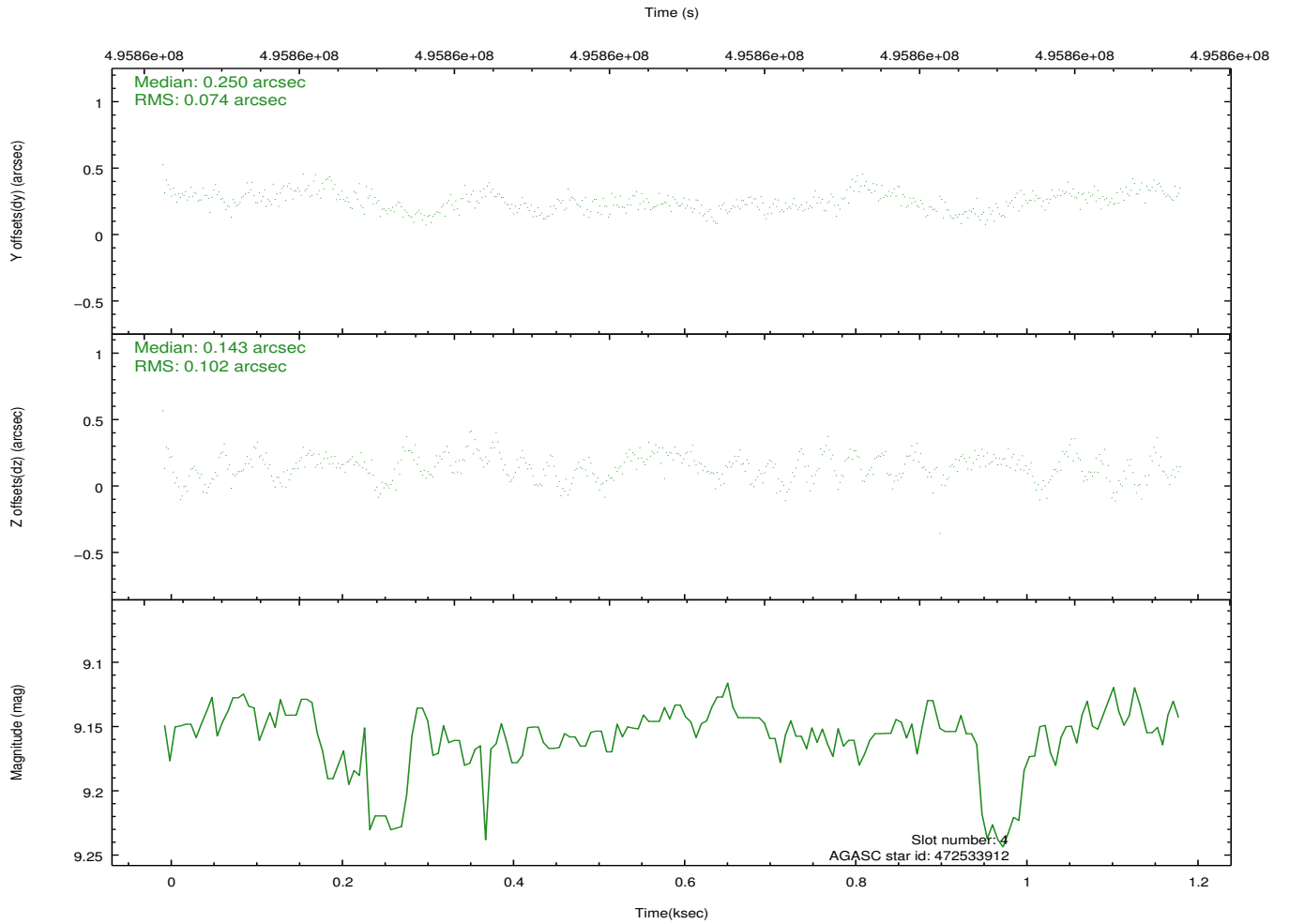
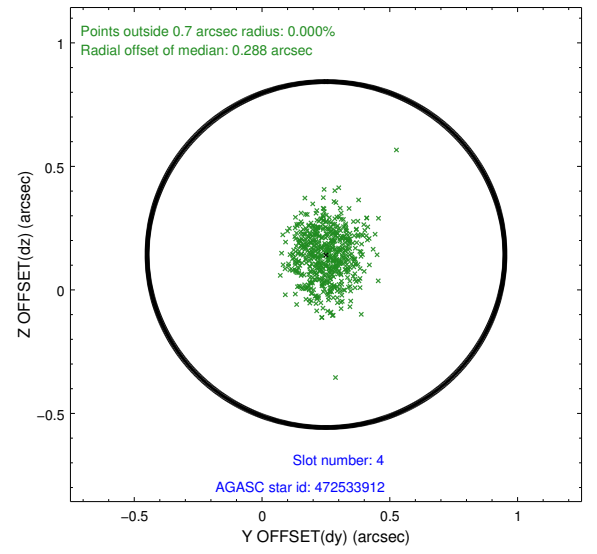
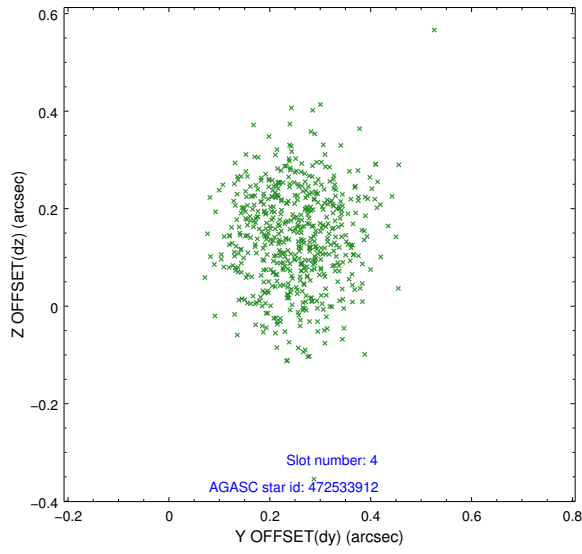
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-I-1	6.98	291	-0.095	0.037	0.006	0.010	0.000000	0.000000	-779.19	-1305.09
1	FID		HRC-I-2	7.03	291	0.255	-0.136	0.005	0.008	0.000000	0.000000	831.12	-1311.29
2	FID		HRC-I-3	7.08	291	-0.041	0.009	0.005	0.008	0.000000	0.000000	-1204.79	994.94
3	GUIDE	used	472523760	8.23	581	-0.278	-0.215	0.072	0.117	331.645363	45.403260	1949.50	564.51
4	GUIDE	used	472533912	9.15	579	0.250	0.143	0.132	0.212	331.791136	46.368695	-126.70	-2242.62
5	GUIDE	used	472655152	9.40	577	-0.011	-0.263	0.183	0.293	332.504239	45.862991	-752.21	220.95
6	GUIDE	used	472665256	9.01	581	0.194	0.147	0.098	0.159	332.808125	46.195041	-2006.74	-433.18
7	GUIDE	used	472535576	7.87	580	-0.167	0.191	0.076	0.124	331.438373	46.291802	761.82	-2452.36

2.4 Star Slots

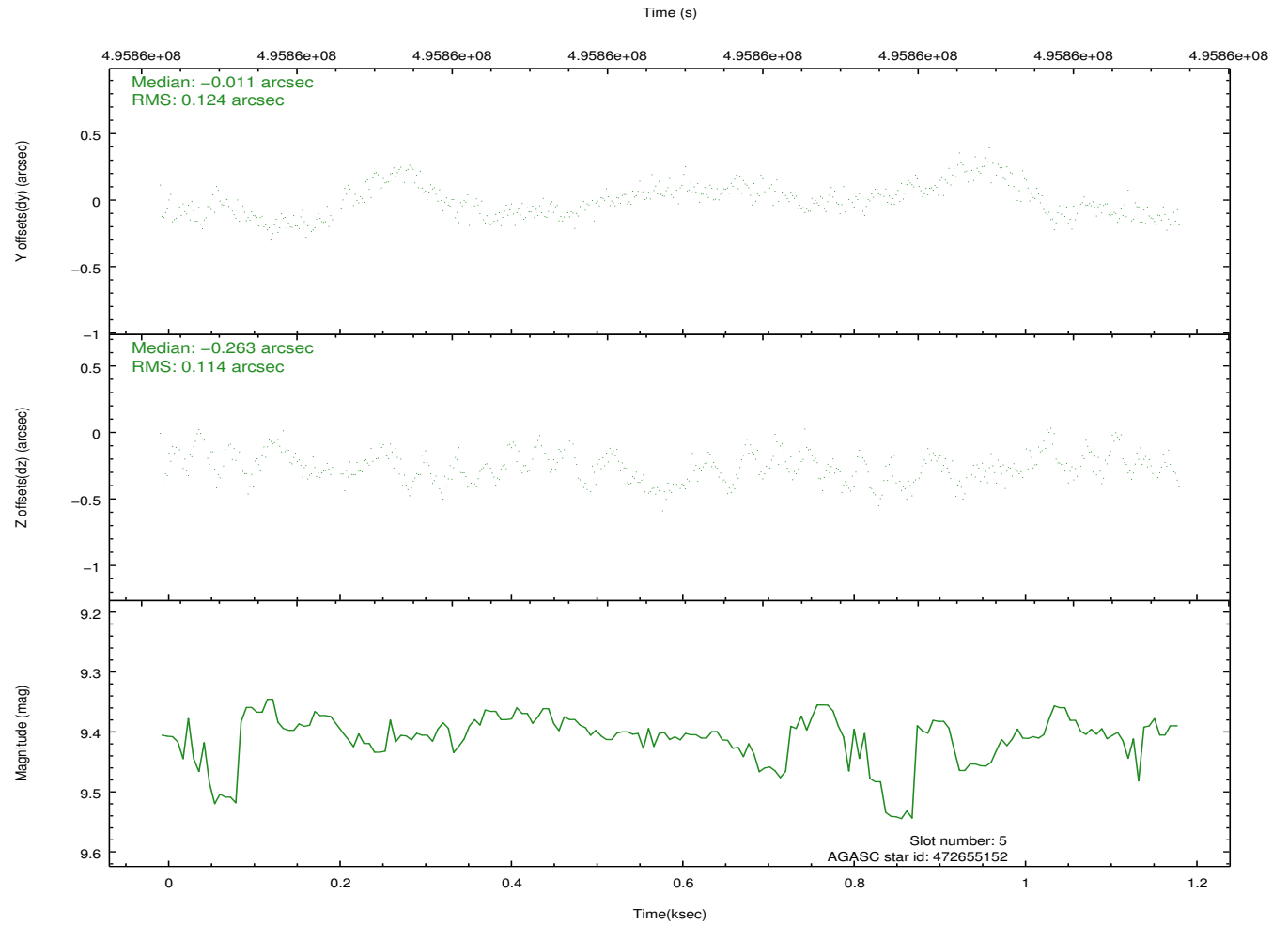
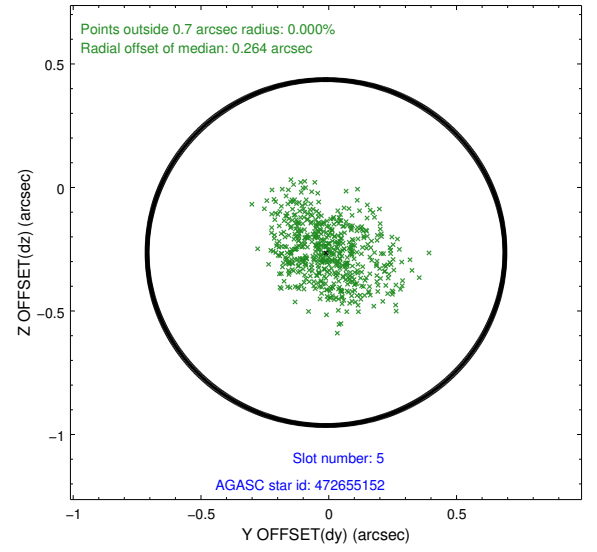
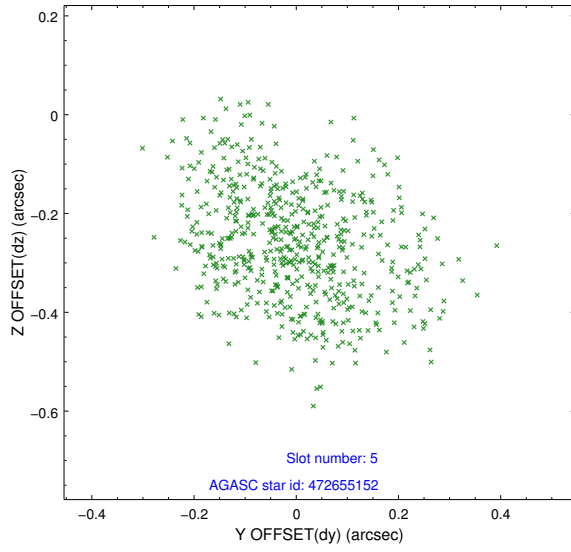
2.4.1 Slot 3



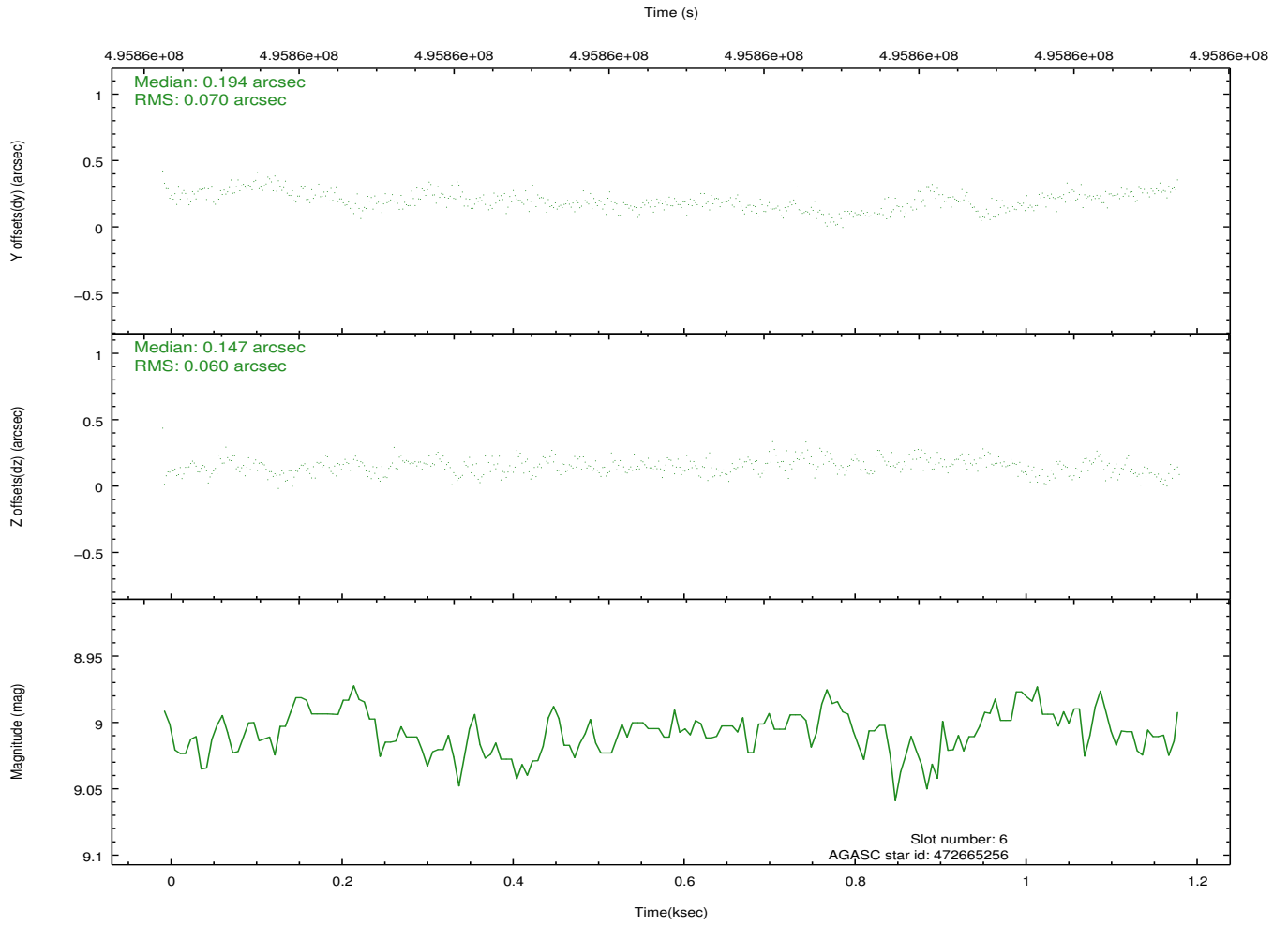
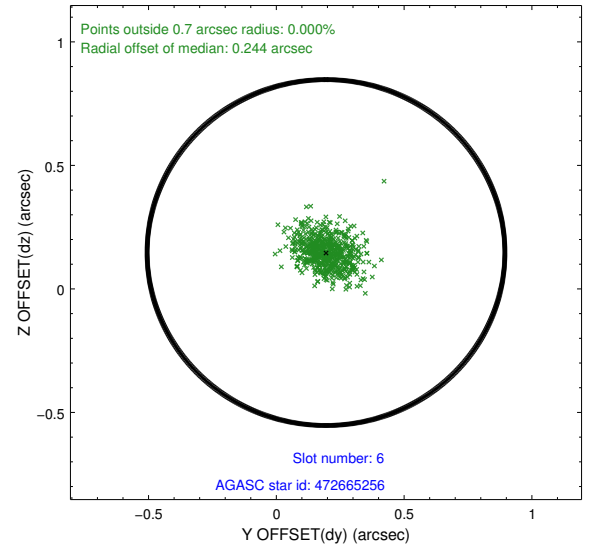
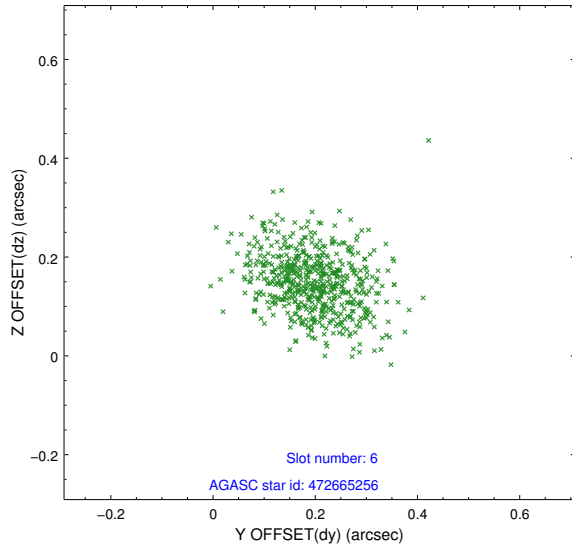
2.4.2 Slot 4



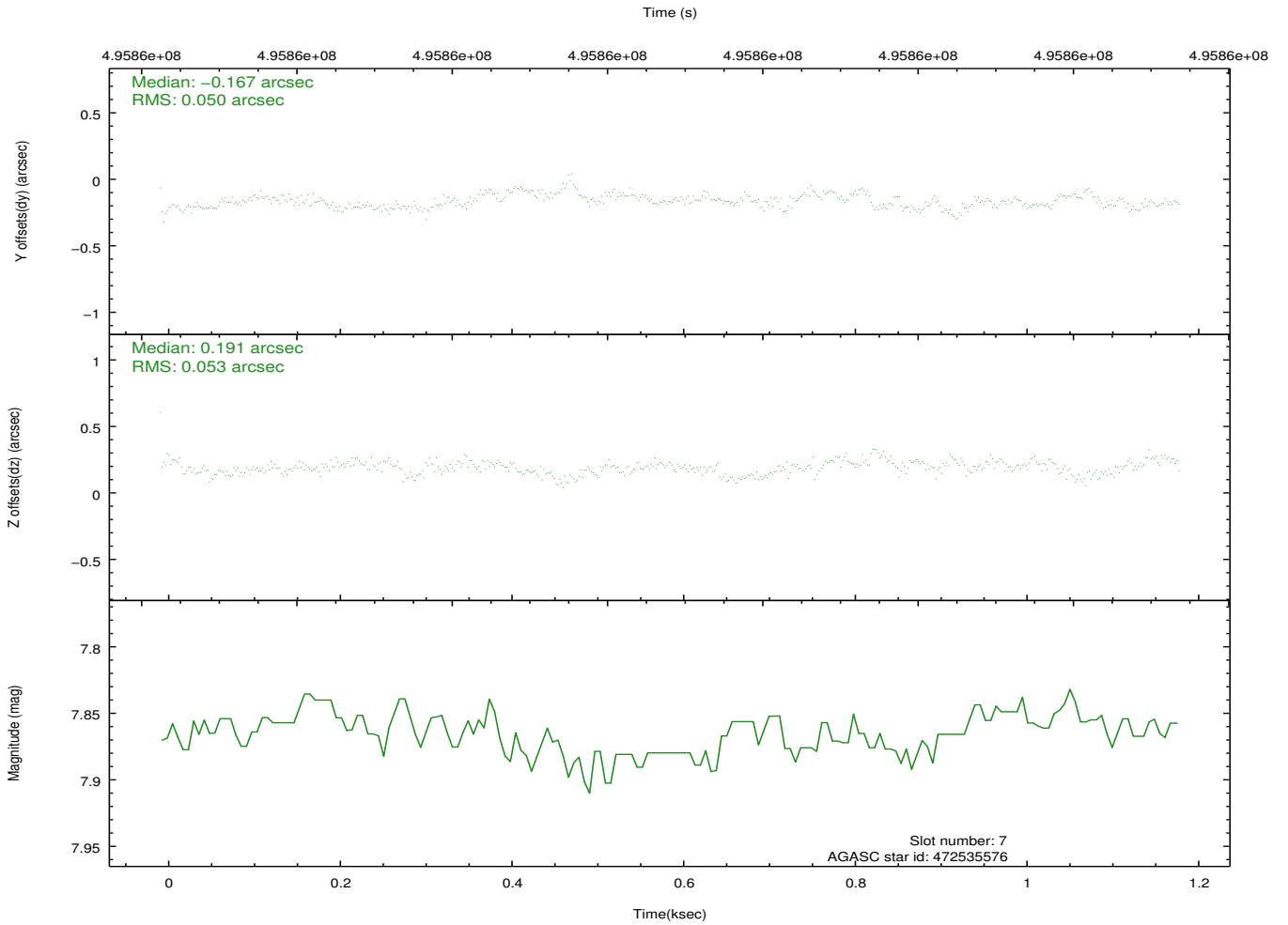
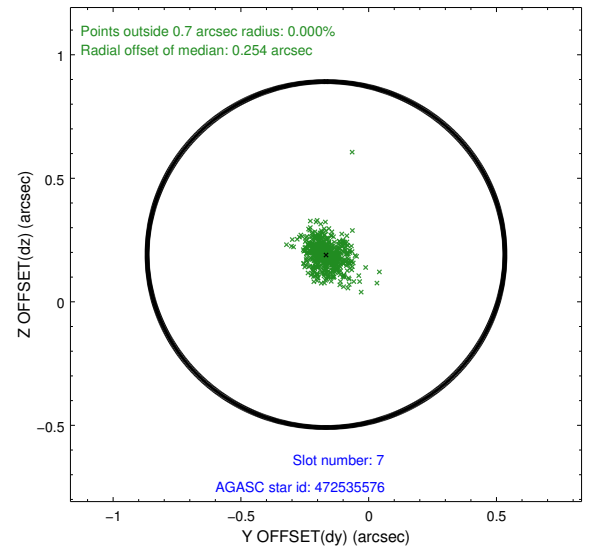
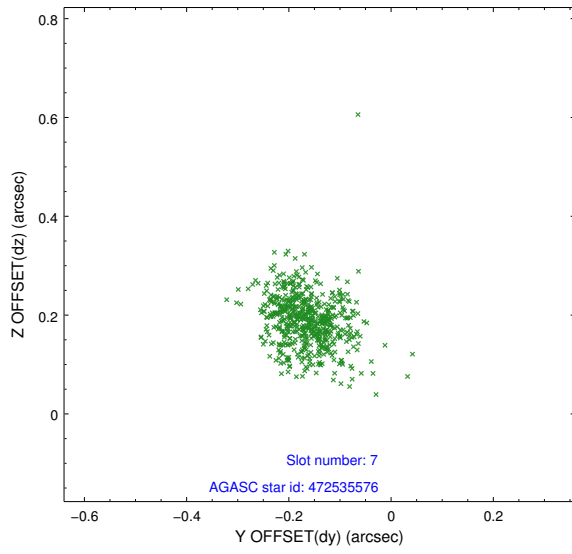
2.4.3 Slot 5



2.4.4 Slot 6

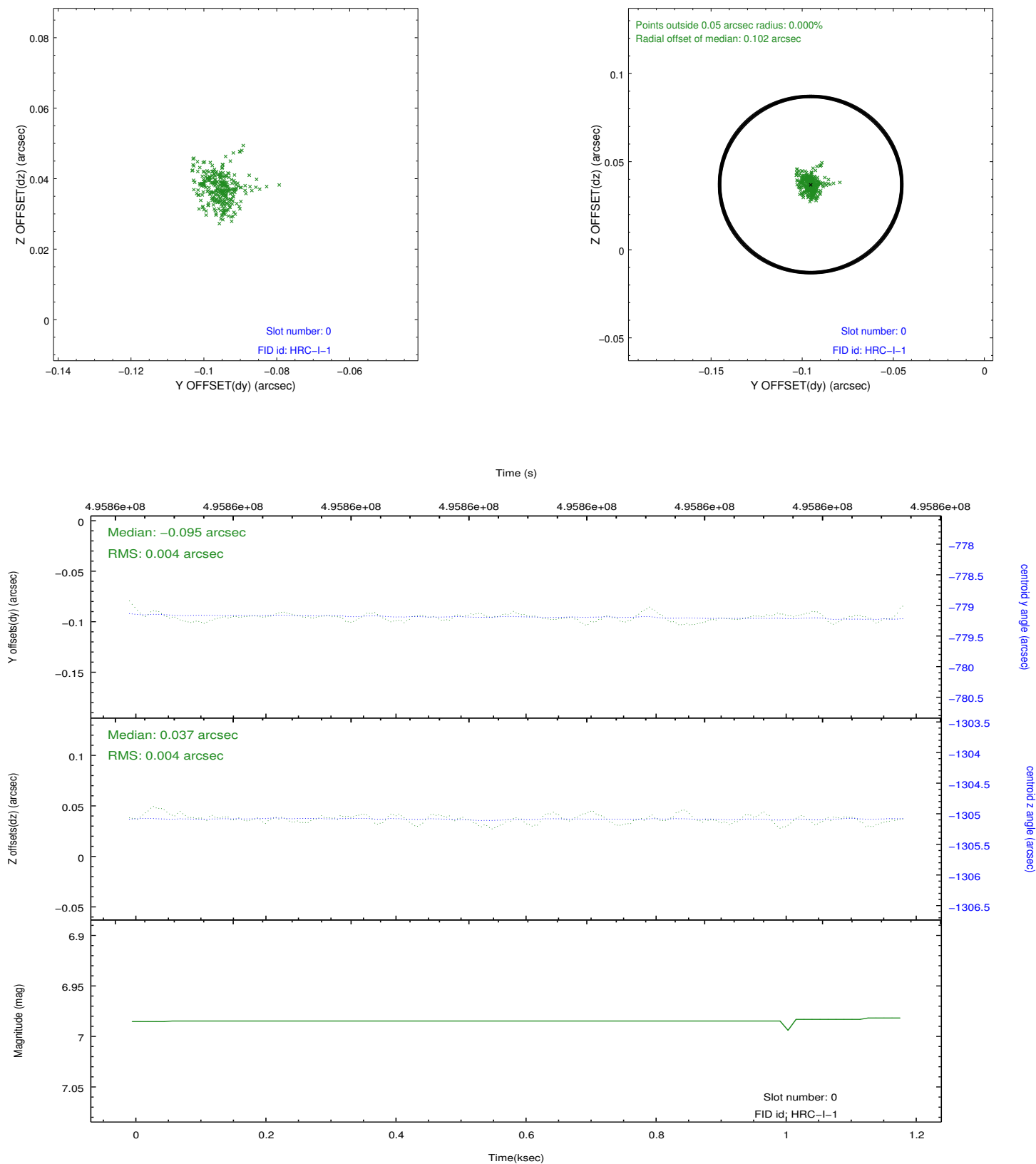


2.4.5 Slot 7

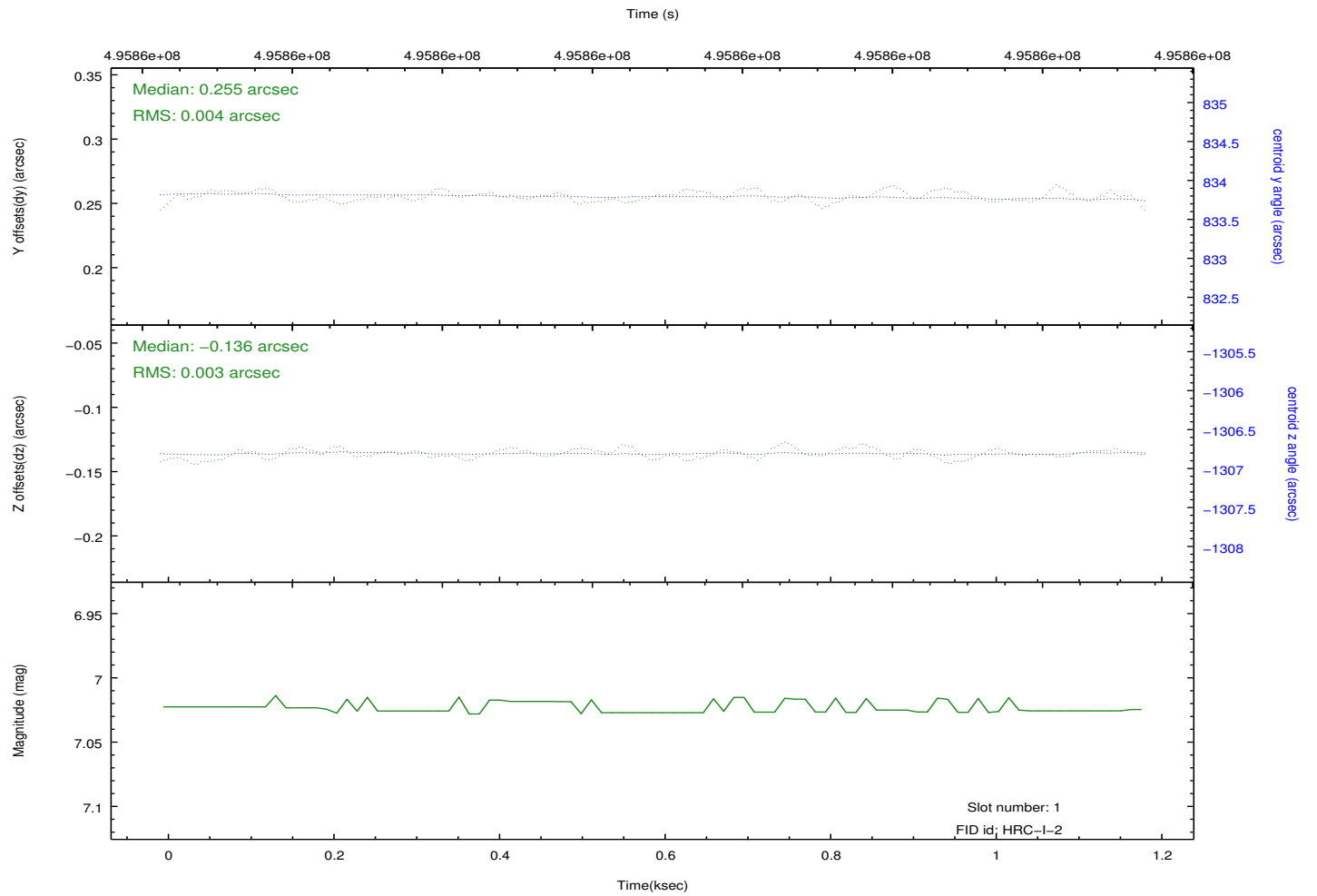
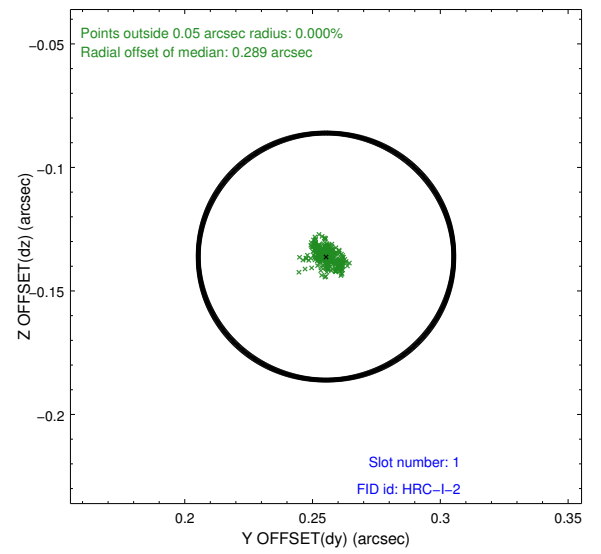
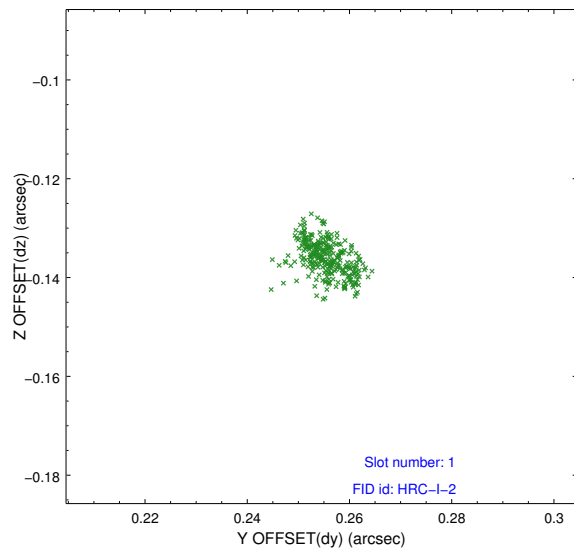


2.5 FID Slots

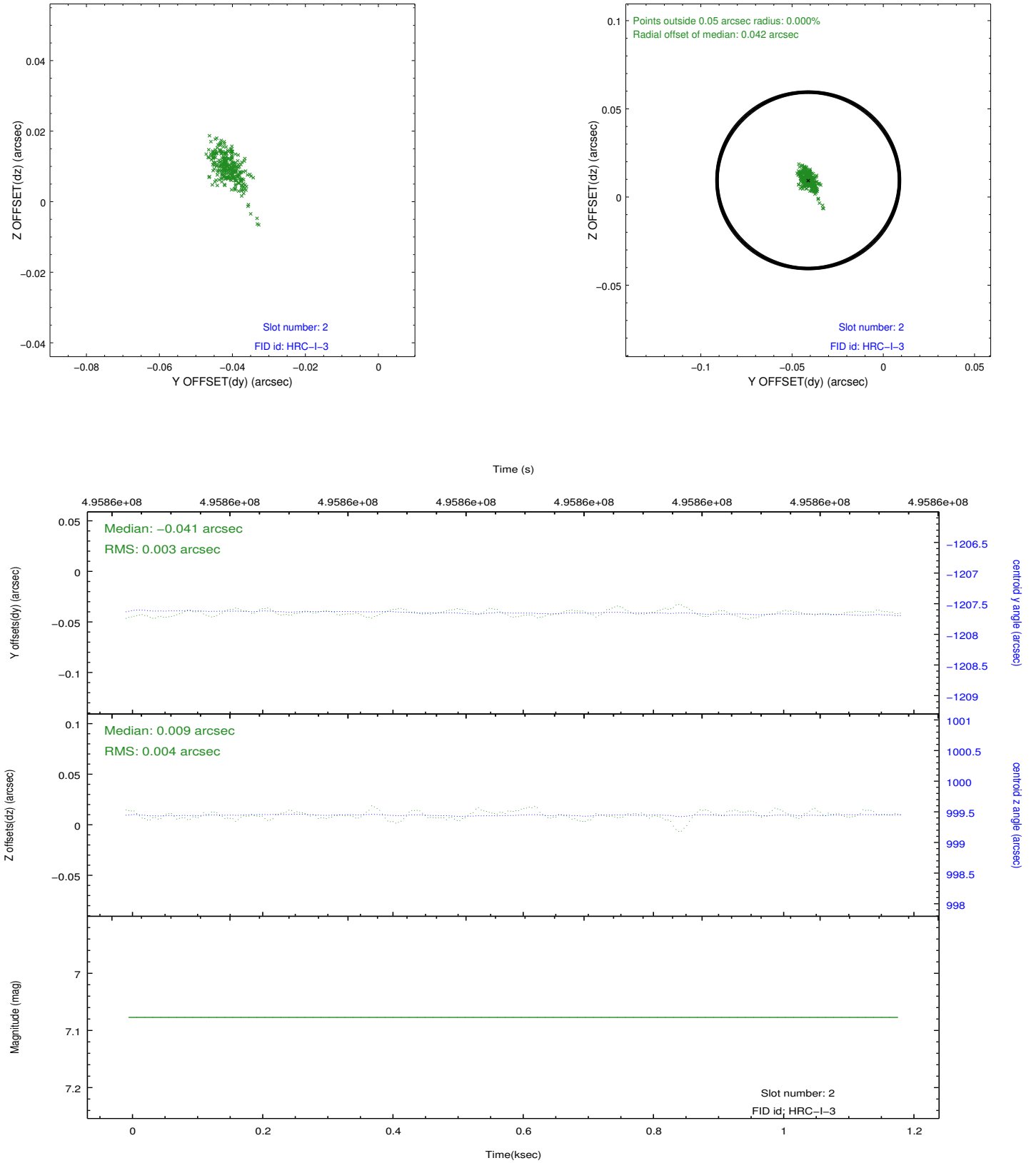
2.5.1 Slot 0



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)	2014.12.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1882313148975

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.