

V&V Reference Report

L2 ASCDS Version : 10

Observation 15429 - L2 Version 2
Chandra X-Ray Center

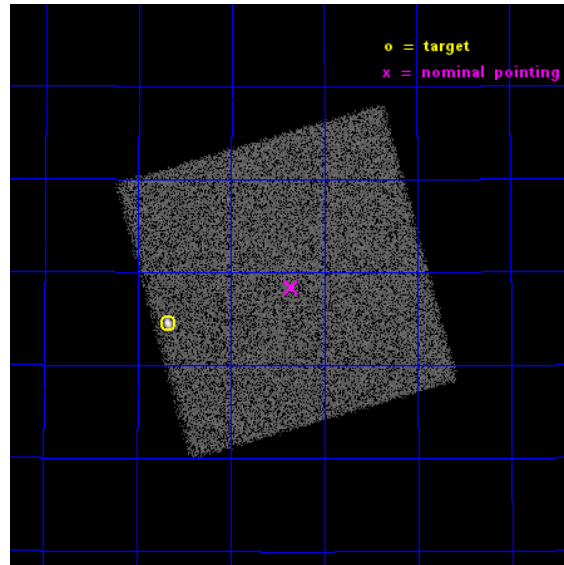
L2 Processing Date : Dec 6 2014

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1 Front

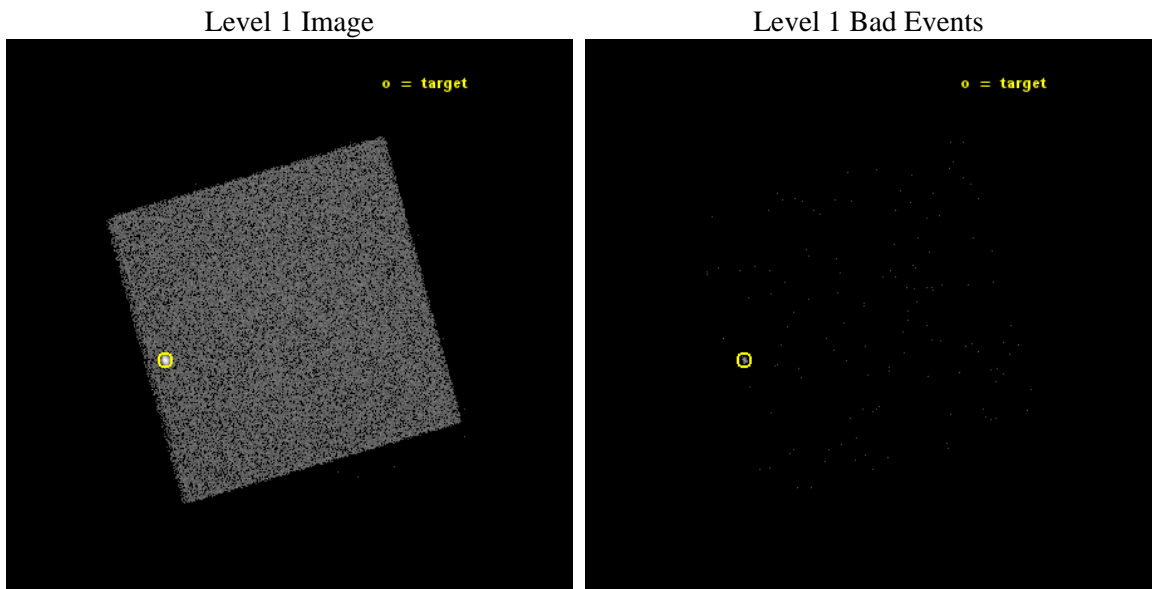
seq_num	291108	Sequence number
obs_id	15429	Observation id
title	AO-14 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	331.83801438501	Nominal RA [deg]
dec_nom	45.80664542328	Nominal Dec [deg]
roll_nom	209.19495985291	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1183.6188146472	[s]
livetime	1174.5314944716	Ontime multiplied by DTCOR
l2events	71085	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	1183.6188146472	[s]
caldsver	4.6.4	 	l1events	114596	Number of level 1 events
date	2014-12-06T11:25:22	Date and time of file creation			
revision	2	Processing version of data			

2.1.3 Events

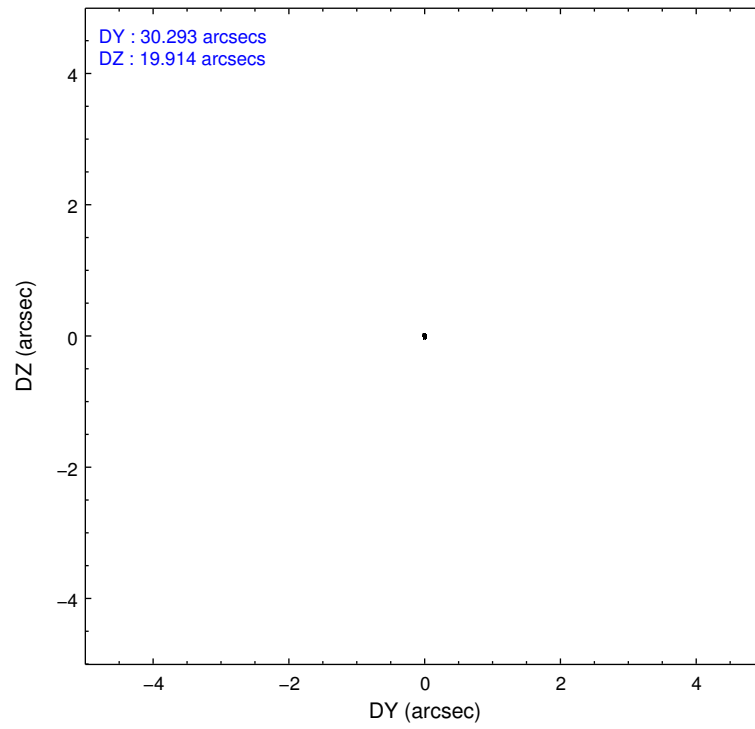
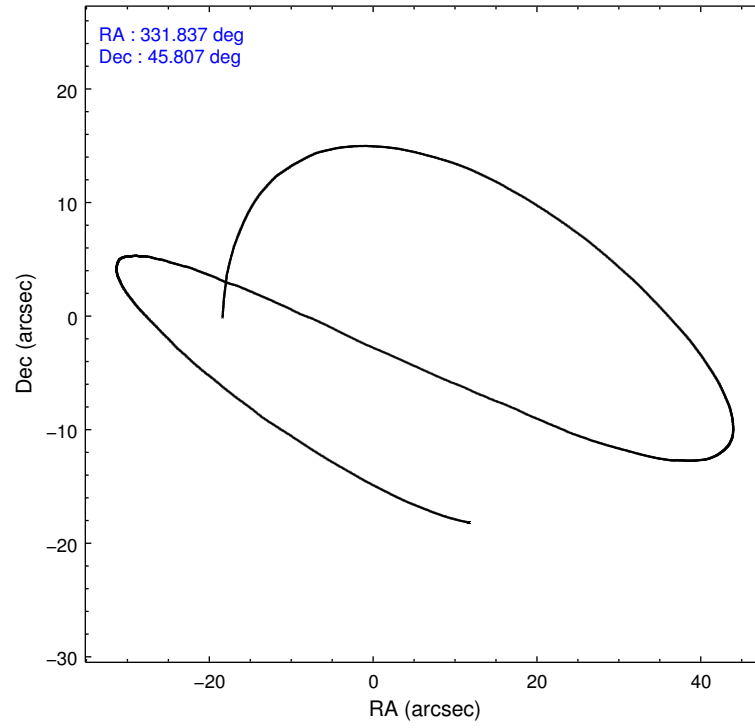
Level 1 Events

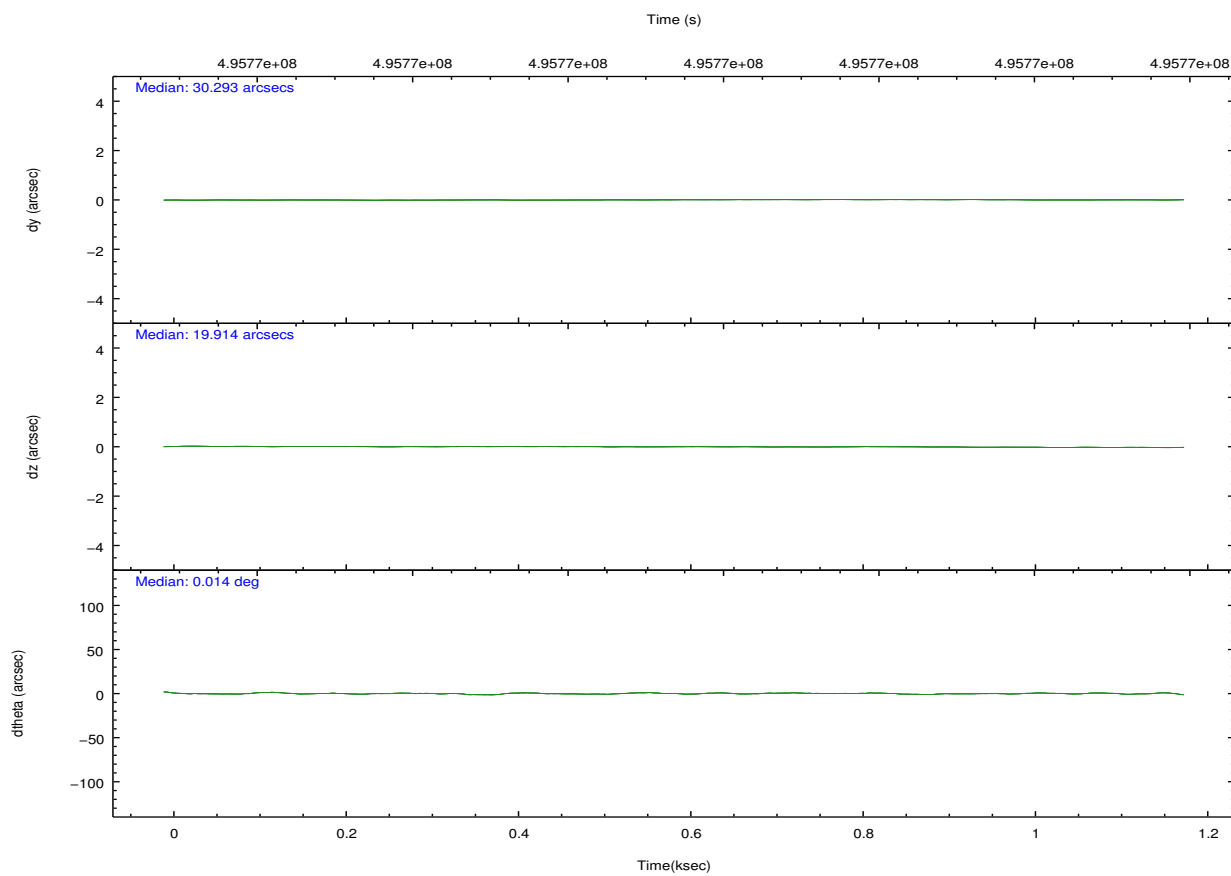
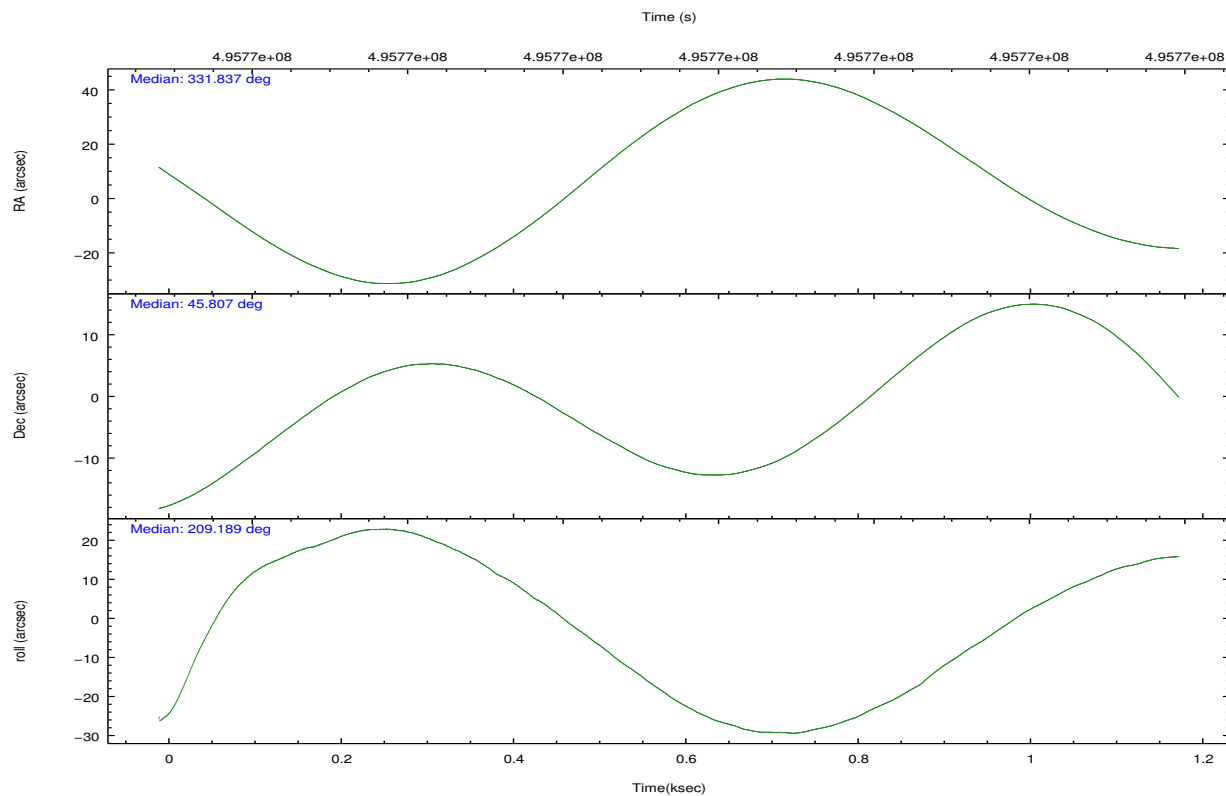
	segment 0
level 1 events	114596
rejected events	19235
rejected %	16%

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	331.858086	331.8380143850077			
[deg] Pointing Dec	45.829730	45.80664542327985			
[deg] Pointing Roll	209.276098	209.1949598529124			
[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)	495765516.184000	495765140.10497			
Observation start date	2013-09-17T00:37:29	2013-09-17T00:32:20			
[s] Observation end time (MET)	495766516.184000	495767076.84257			
Observation end date	2013-09-17T00:54:09	2013-09-17T01:04:36			

2.3 Aspect



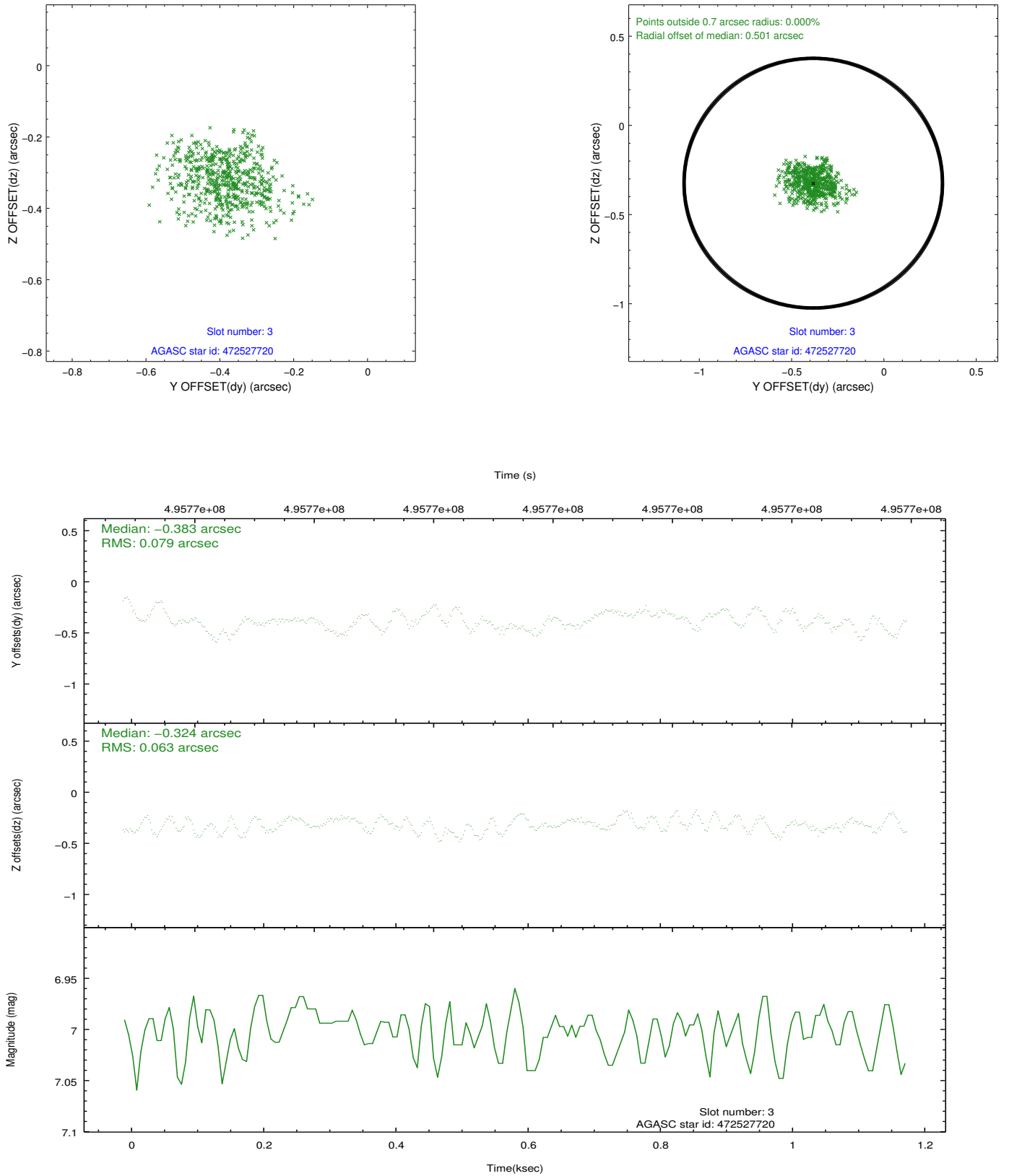


Slot Statistics

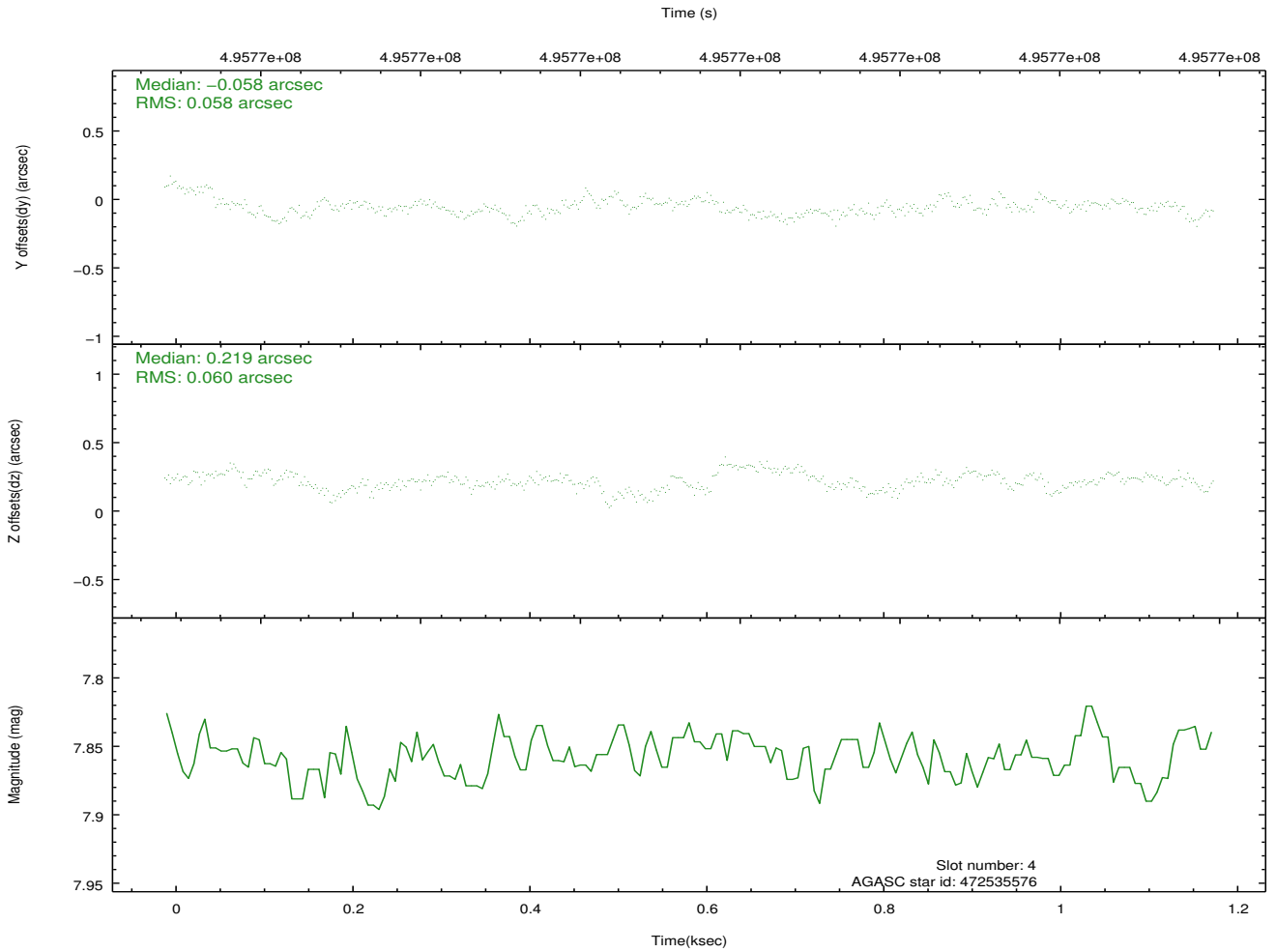
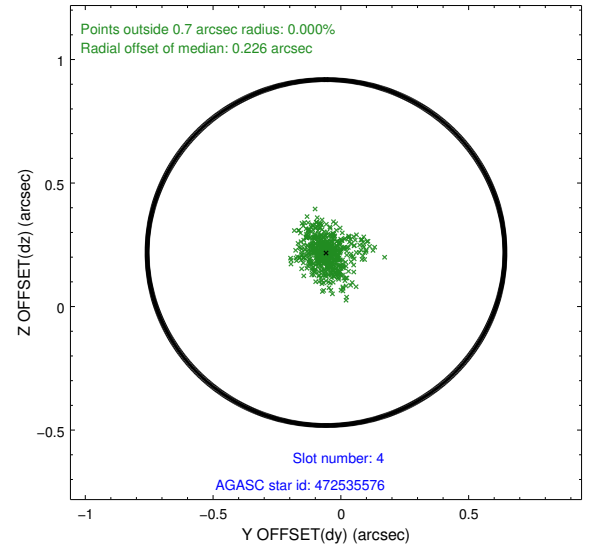
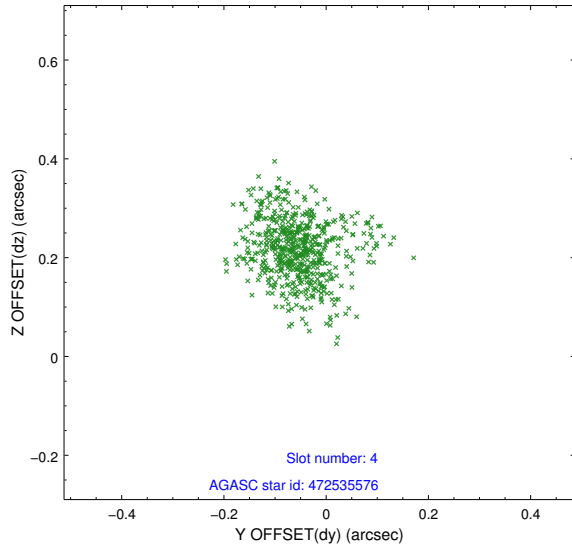
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-I-1	7.02	290	-0.214	-0.202	0.006	0.010	0.000000	0.000000	-786.86	-1308.32
1	FID		HRC-I-2	7.05	289	0.152	0.019	0.007	0.011	0.000000	0.000000	823.42	-1314.35
2	FID		HRC-I-4	7.03	289	0.179	0.092	0.005	0.011	0.000000	0.000000	1259.39	989.40
3	GUIDE	used	472527720	7.00	579	-0.383	-0.324	0.111	0.171	331.460205	45.112509	2142.13	1758.80
4	GUIDE	used	472535576	7.86	579	-0.058	0.219	0.090	0.151	331.438373	46.291802	99.26	-1957.56
5	GUIDE	used	472536328	8.15	577	0.255	0.430	0.099	0.158	331.496671	46.454831	-319.35	-2402.98
6	GUIDE	used	472655152	9.40	579	0.213	-0.048	0.193	0.348	332.504239	45.862991	-1475.69	680.92
7	GUIDE	used	472523760	8.23	578	-0.018	-0.273	0.089	0.141	331.645363	45.403260	1216.43	1079.81

2.4 Star Slots

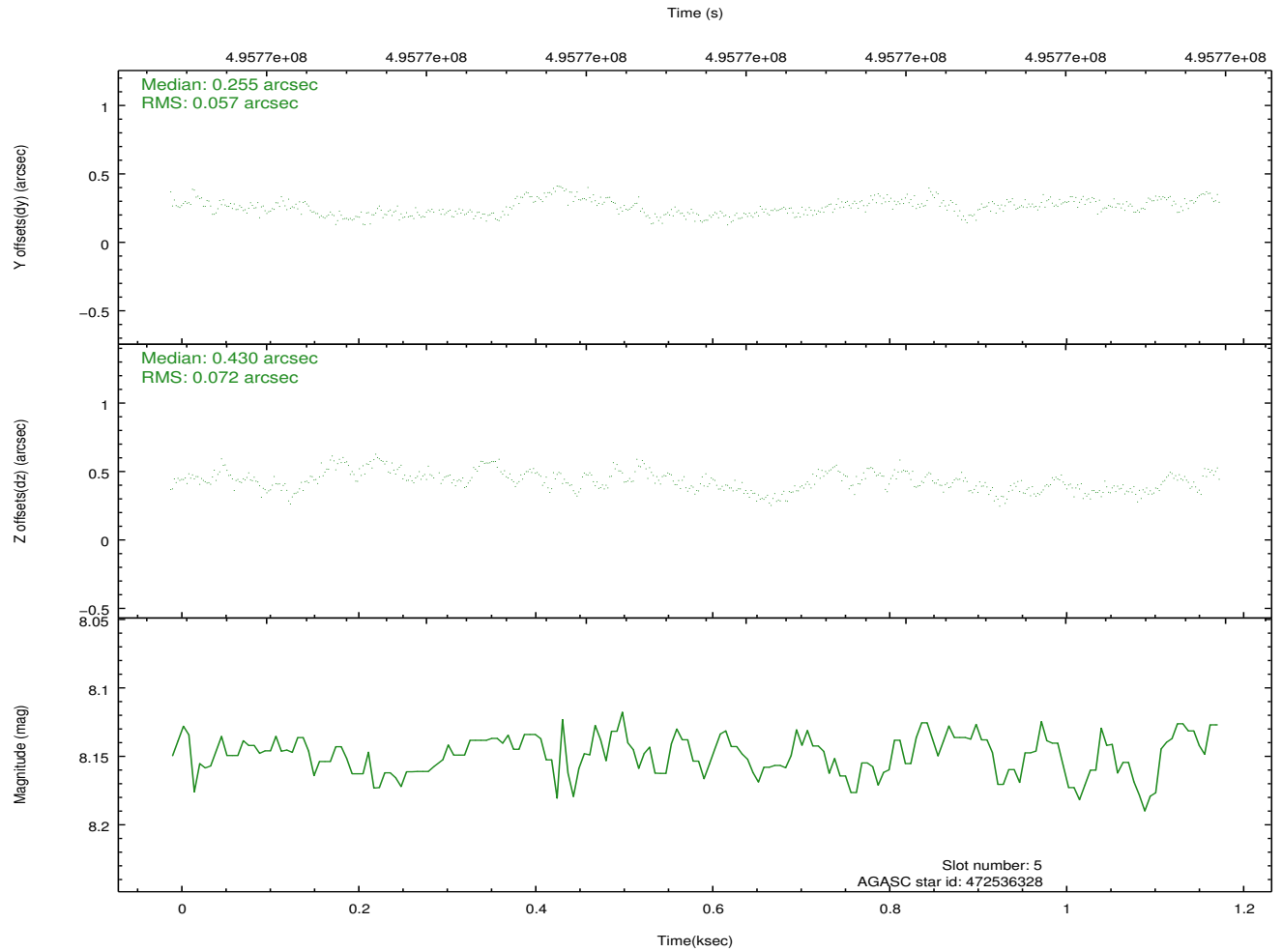
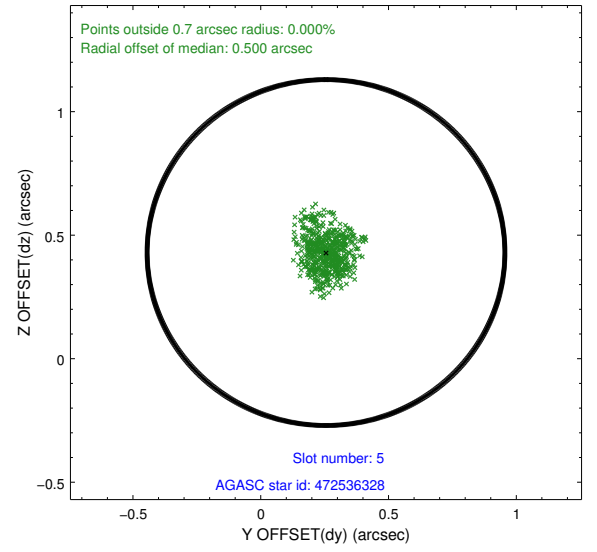
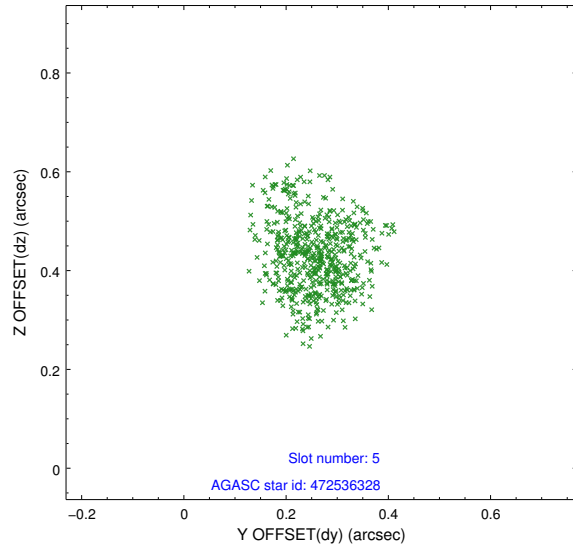
2.4.1 Slot 3



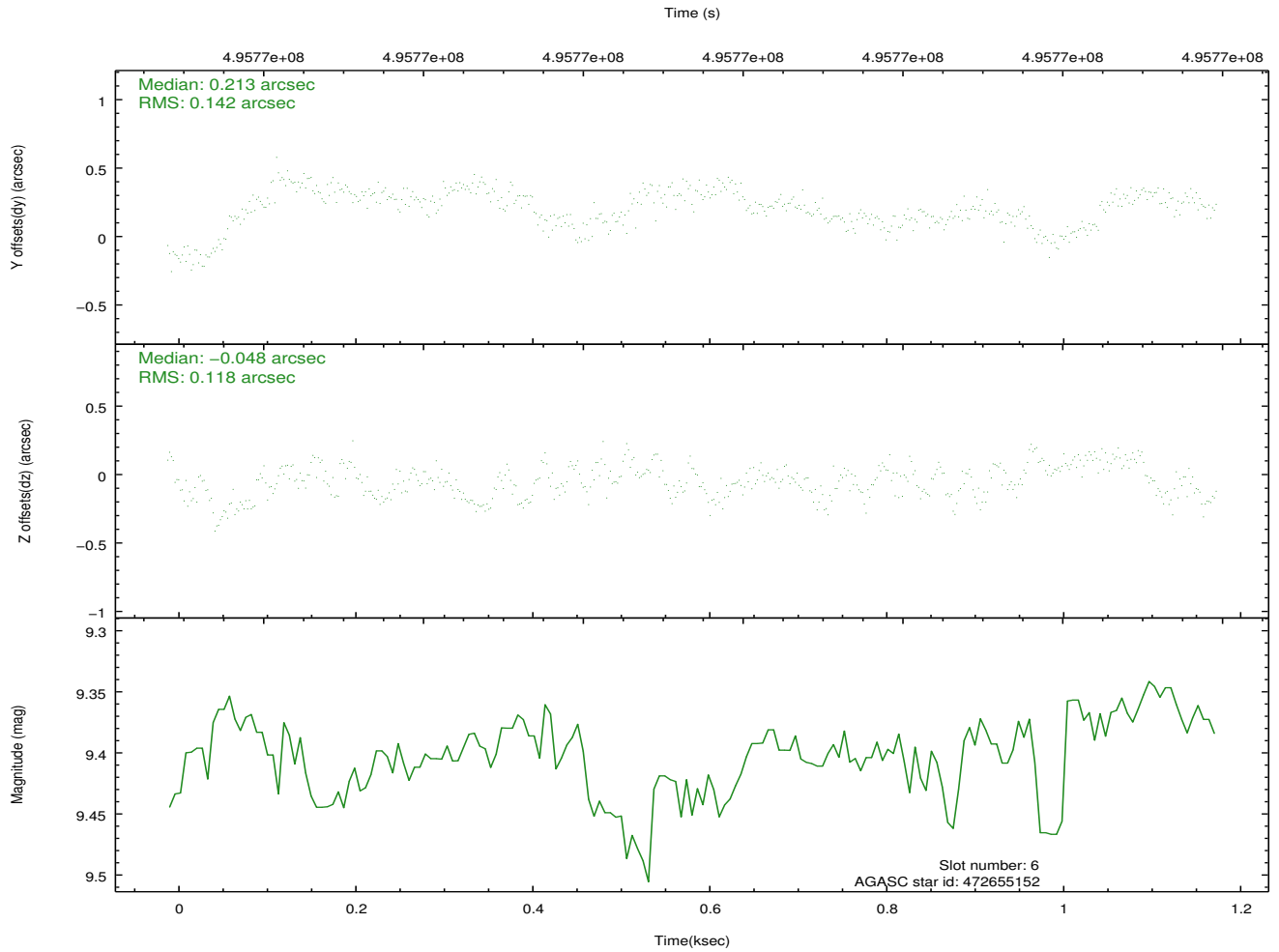
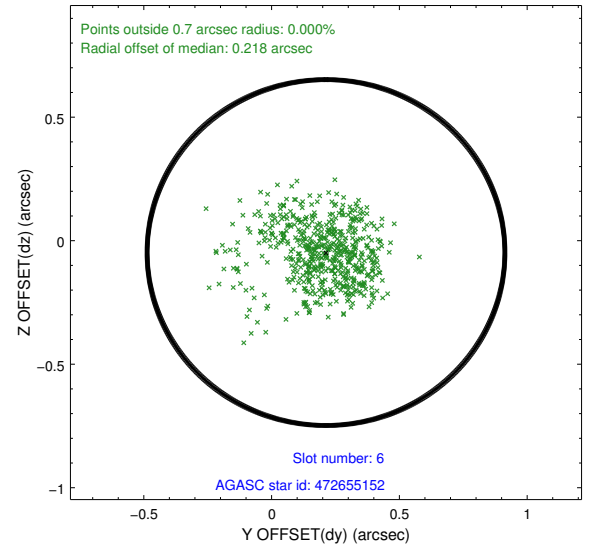
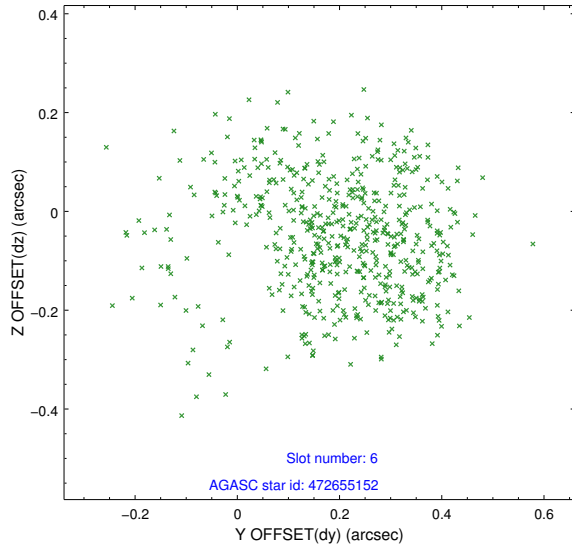
2.4.2 Slot 4



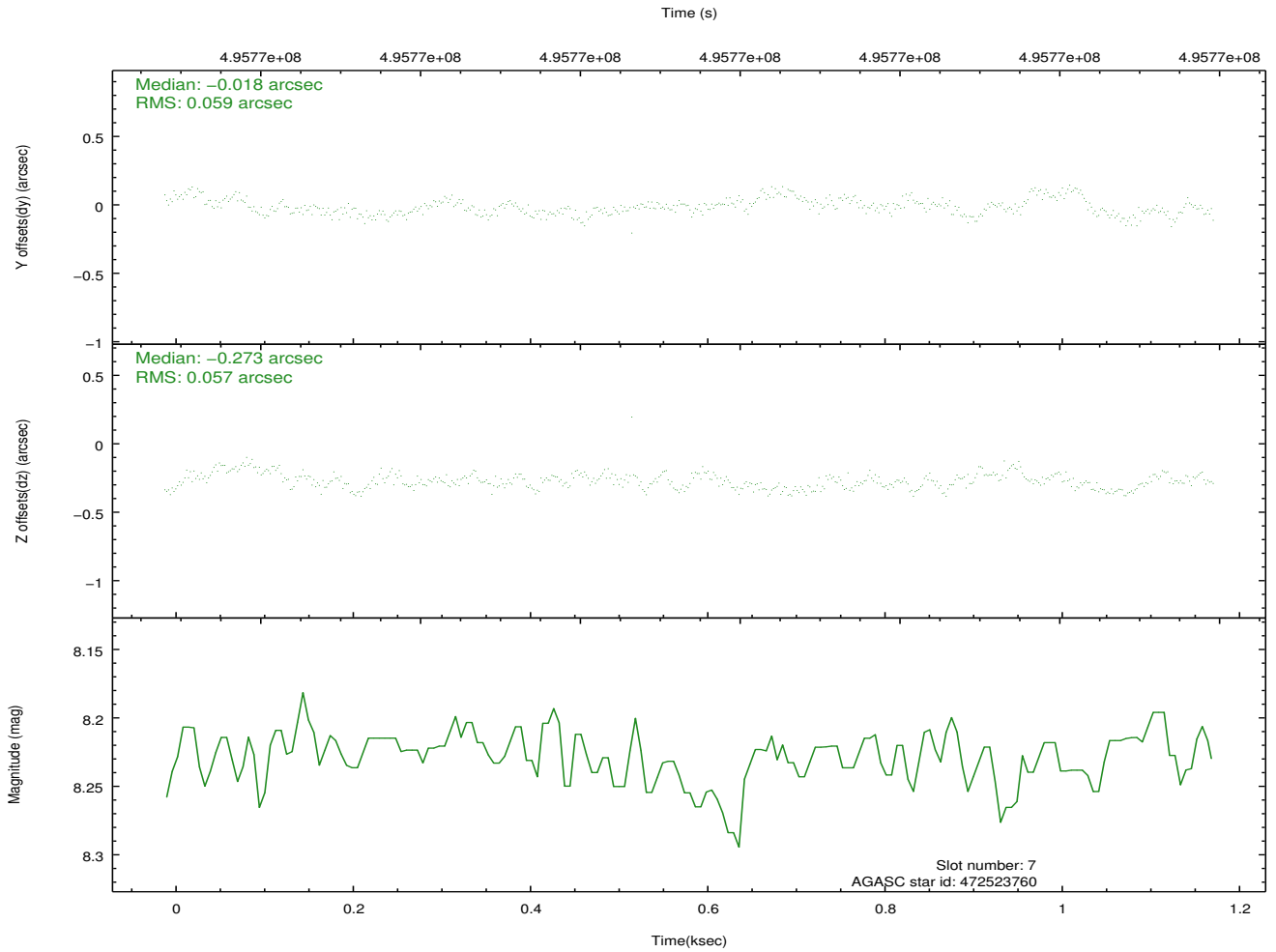
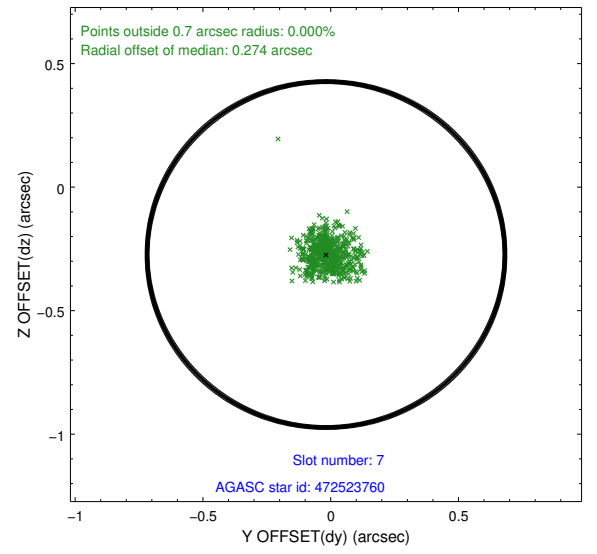
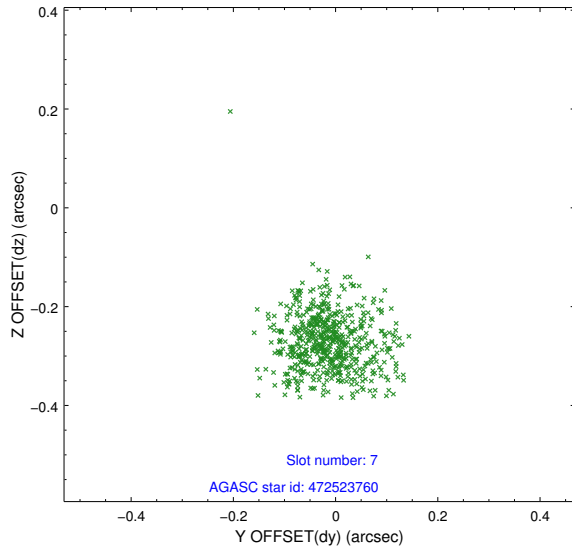
2.4.3 Slot 5



2.4.4 Slot 6

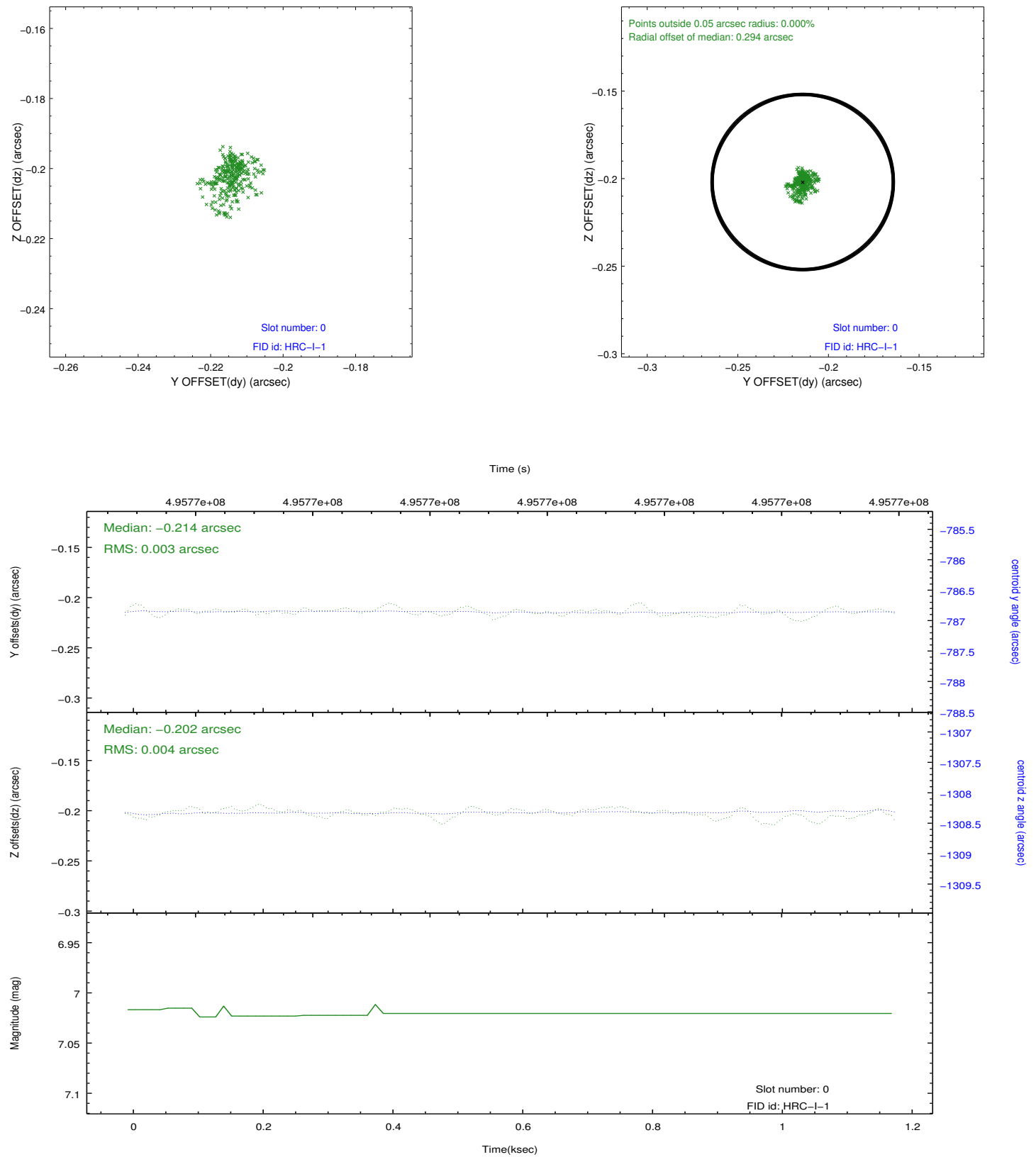


2.4.5 Slot 7

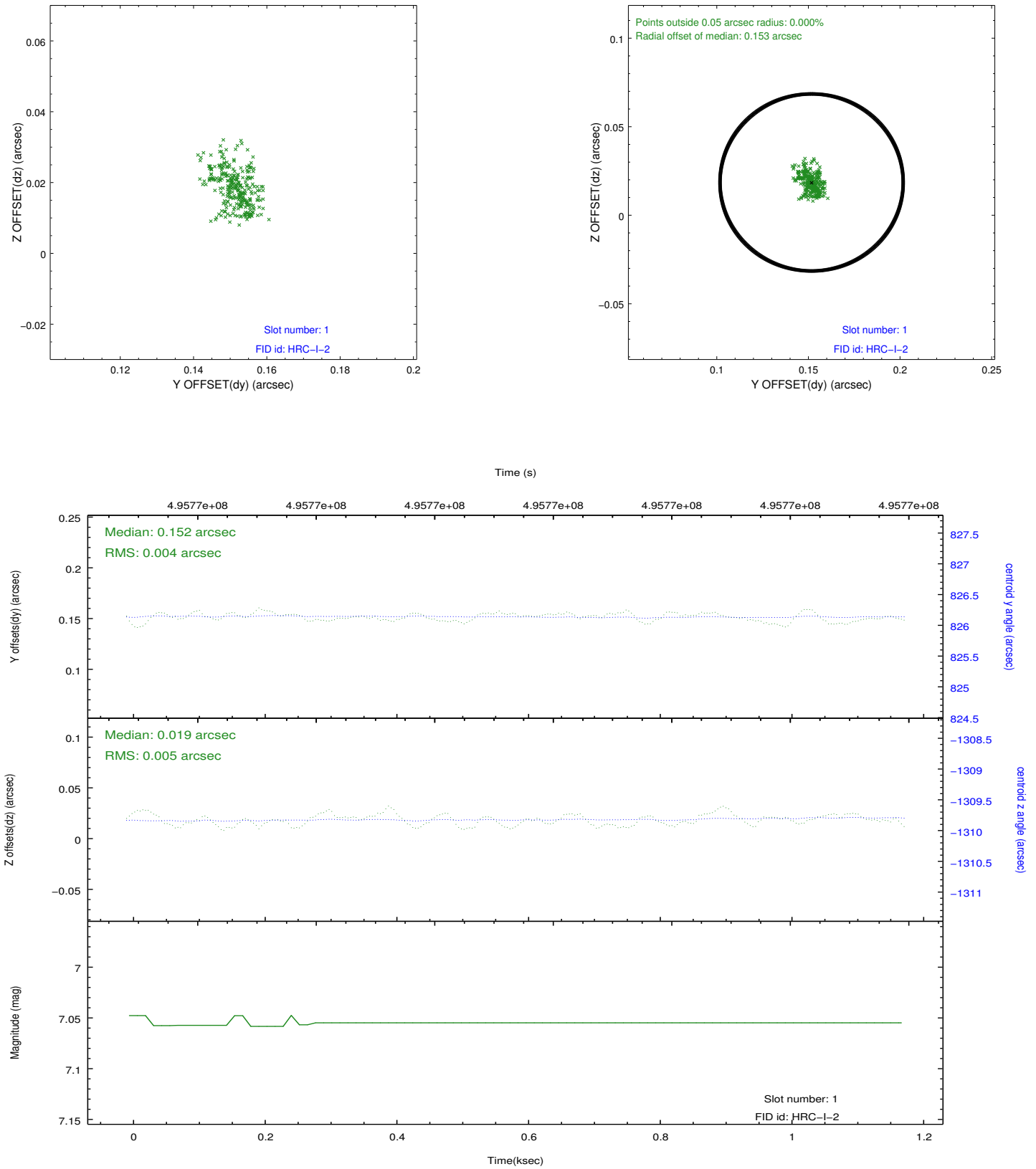


2.5 FID Slots

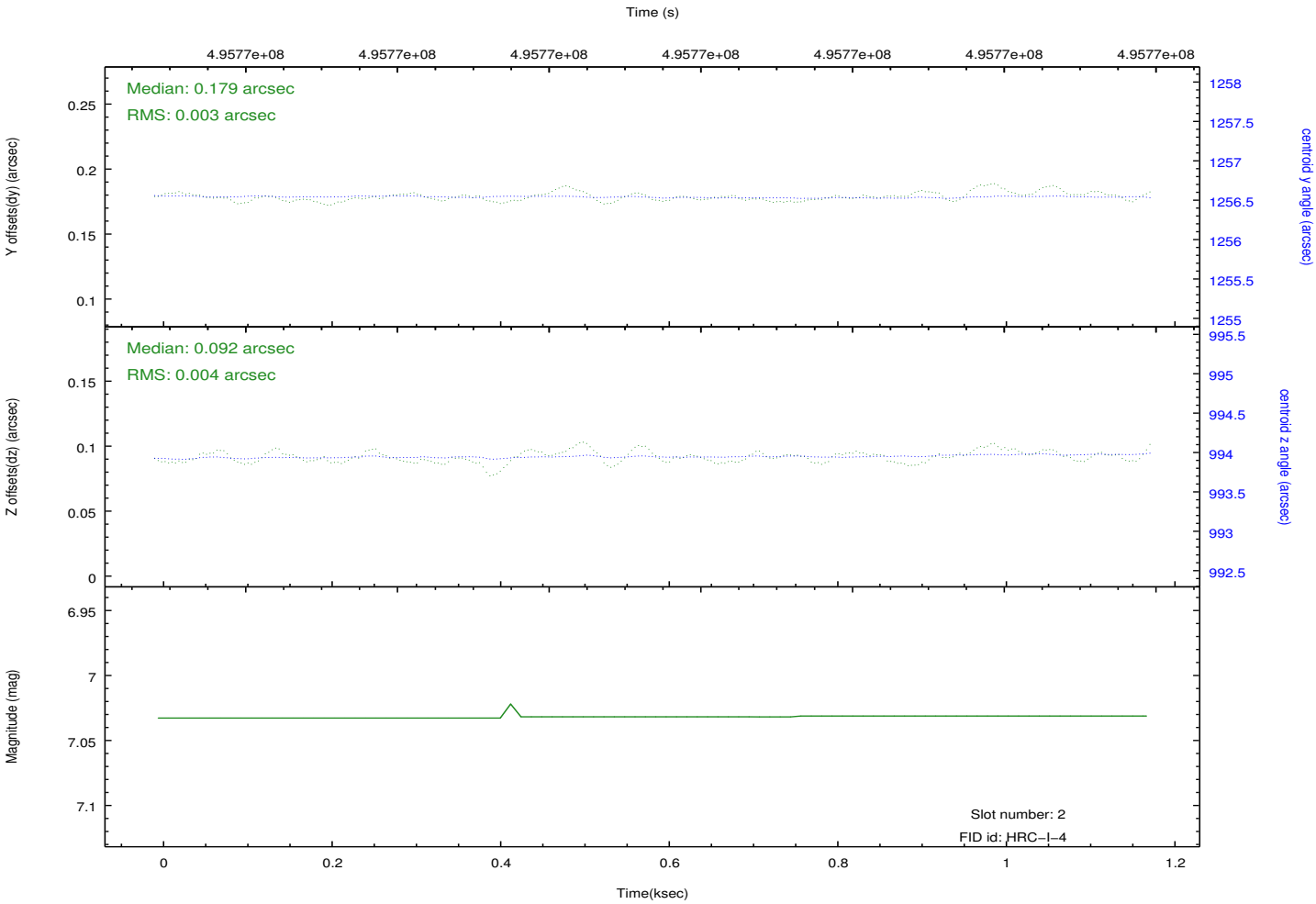
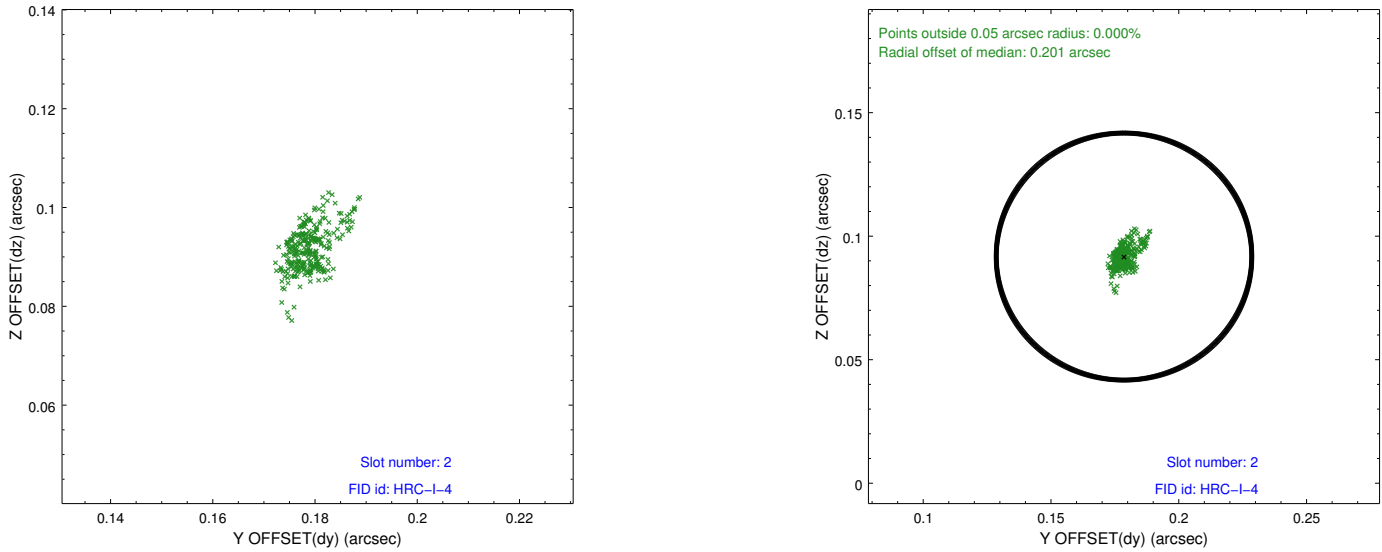
2.5.1 Slot 0



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	1.1836188146472

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.