

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21750 - L2 Version 1
Chandra X-Ray Center

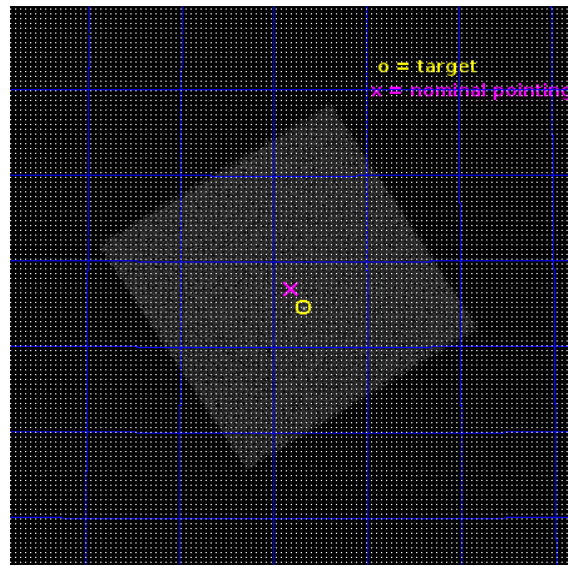
L2 Processing Date : Sep 4 2019

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1 Front

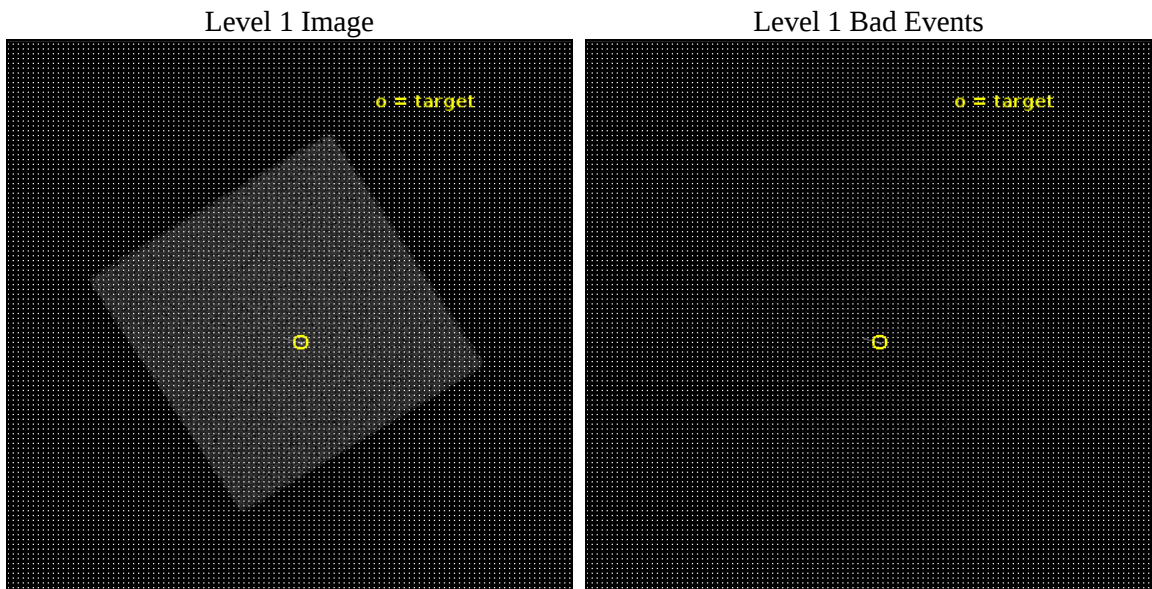
seq_num	291436	Sequence number
obs_id	21750	Observation id
title	AO-20 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.169666	Observer's specified target RA [deg]
dec_targ	45.742509	Observer's specified target Dec [deg]
ra_nom	332.20191302114	Nominal RA [deg]
dec_nom	45.779929813726	Nominal Dec [deg]
roll_nom	192.64467349136	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1190.2813215256	[s]
livetime	1172.924058558	Ontime multiplied by DTCOR
l2events	153011	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	10.8	Processing system revision	ontime	1190.2813215256	[s]
caldbver	4.8.4	 	l1events	251605	Number of level 1 events
date	2019-09-04T14:37:19	Date and time of file creation			
revision	1	Processing version of data			

2.1.3 Events

Level 1 Events

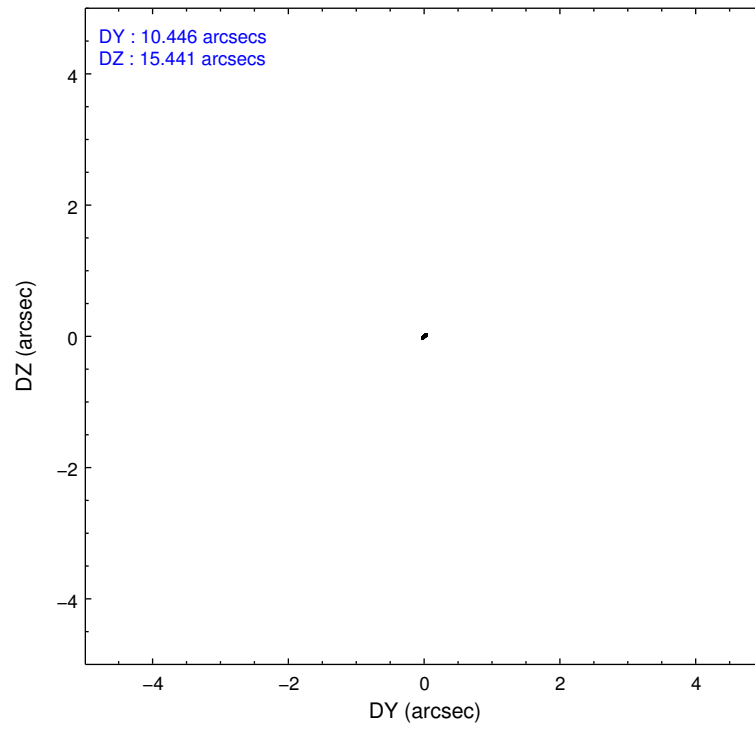
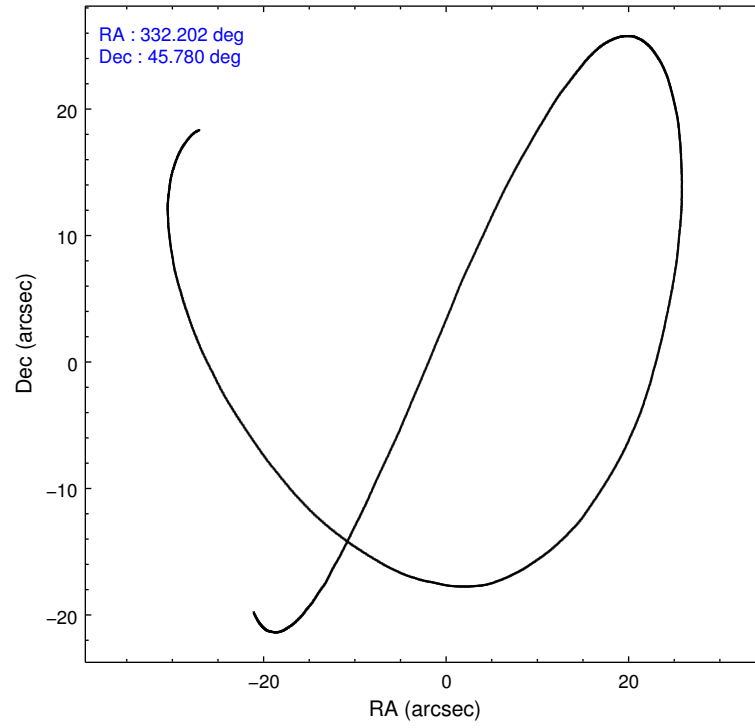
	segment 0
level 1 events	251605
rejected events	52892
rejected %	21%

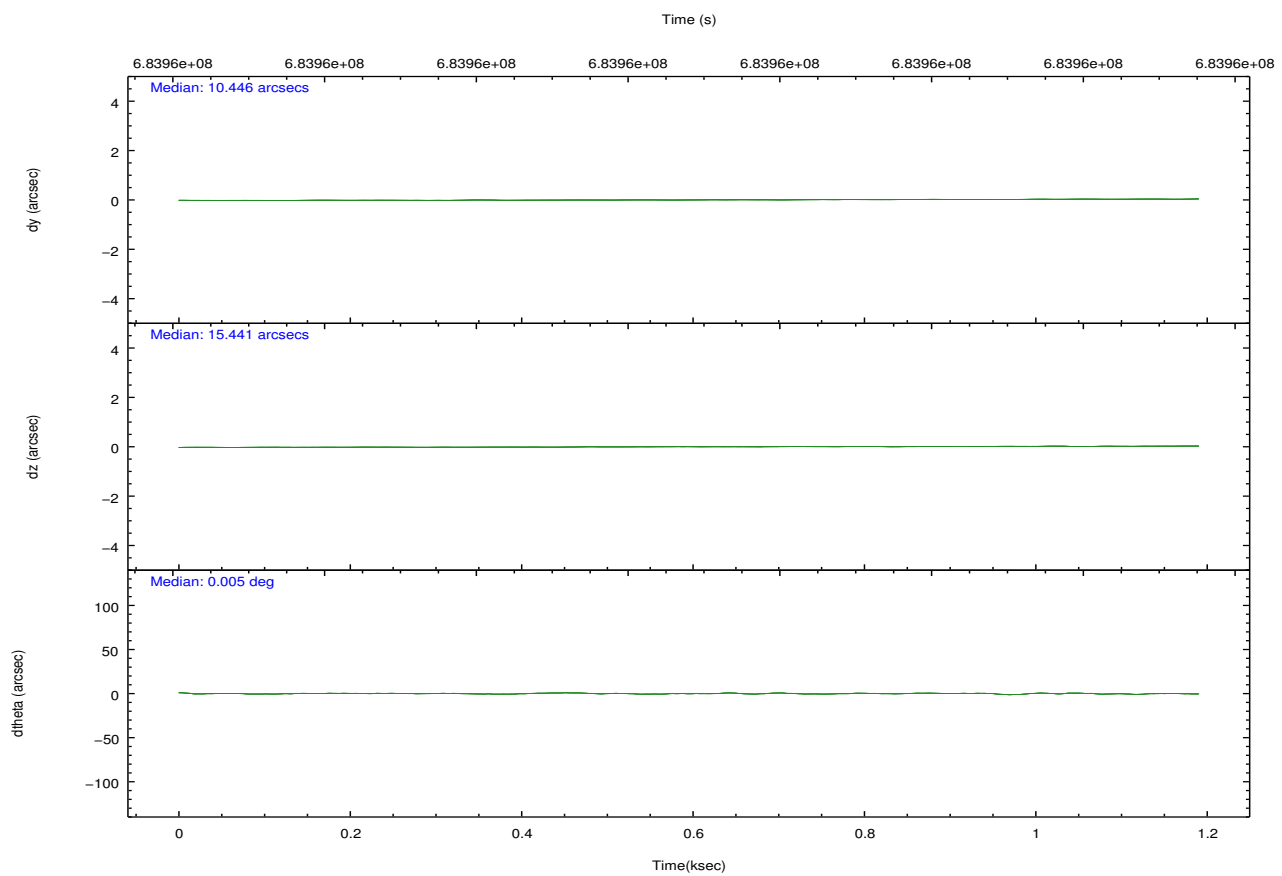
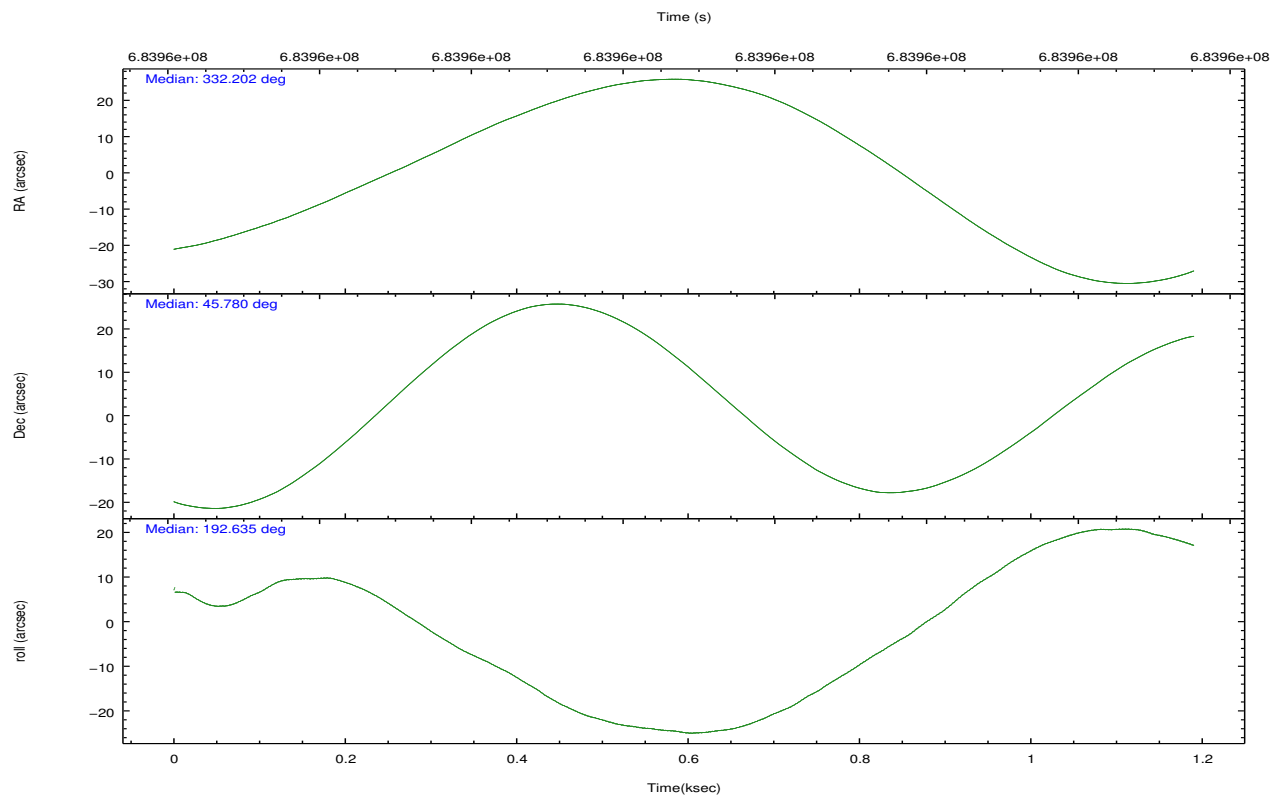
2.2 Compared Parameters

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	332.230639	332.2019130211386
[deg] Pointing Dec	45.799348	45.77992981372577
[deg] Pointing Roll	192.719584	192.6446734913593
[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)	683961663.184000	683961287.37421
Observation start date	2019-09-04T05:19:54	2019-09-04T05:14:47
[s] Observation end time (MET)	683962663.184000	683962797.1993001
Observation end date	2019-09-04T05:36:34	2019-09-04T05:39:57

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

2.3 Aspect



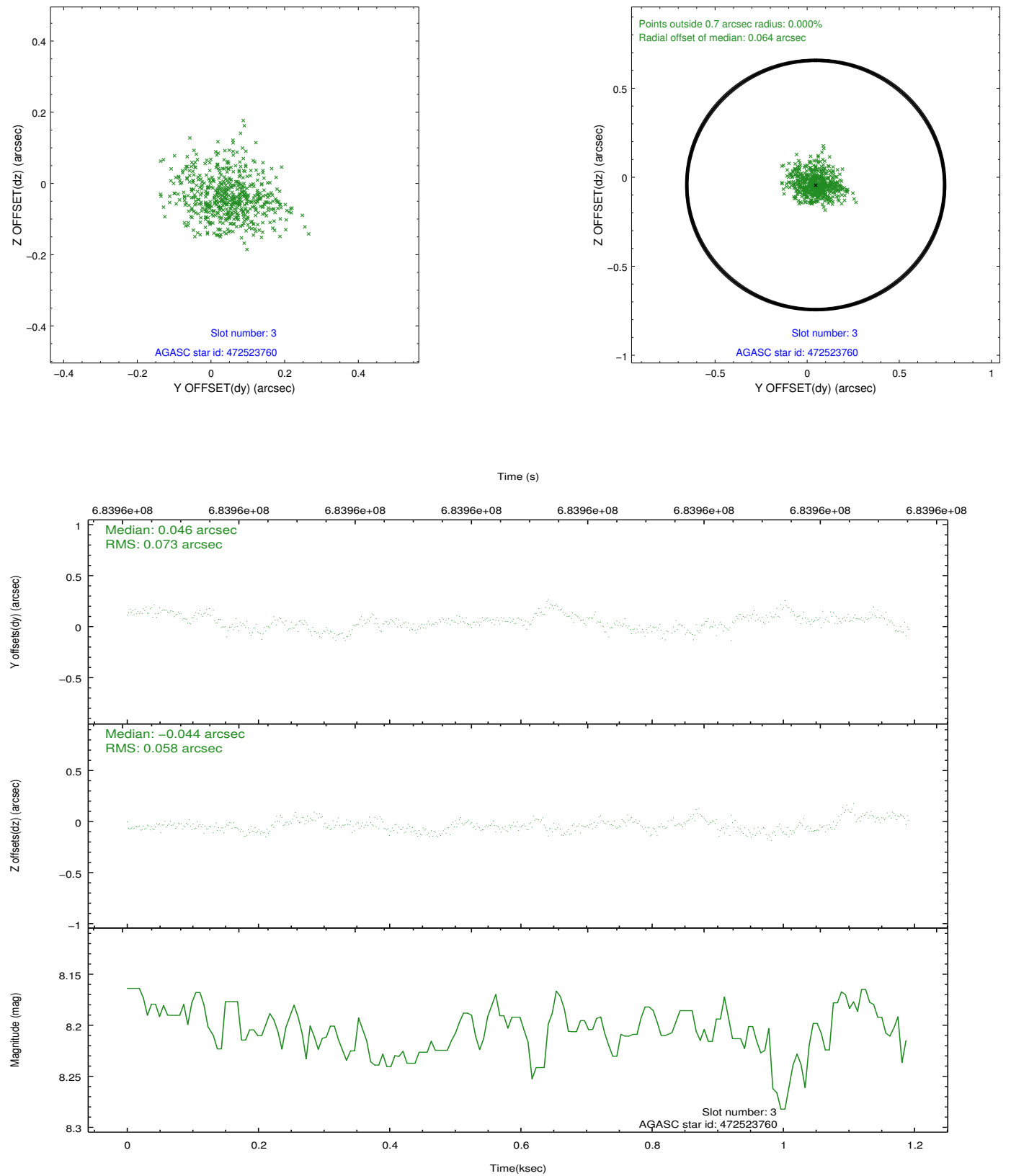


Slot Statistics

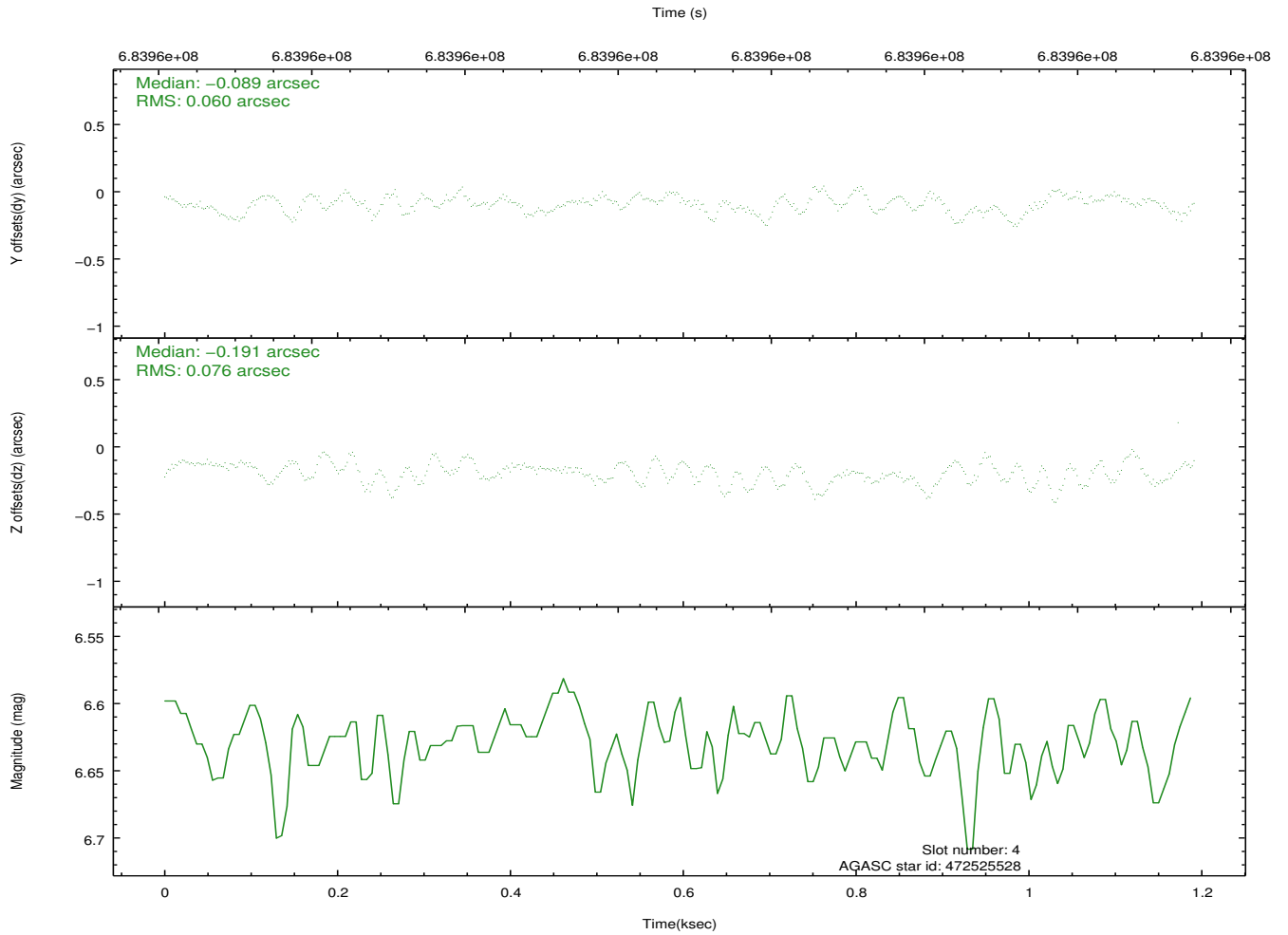
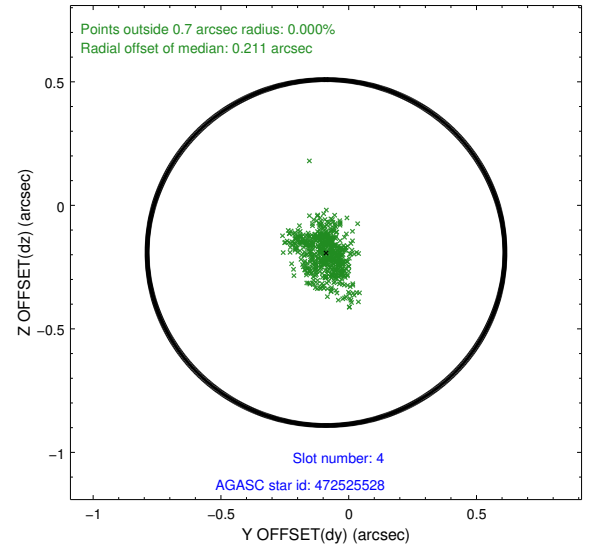
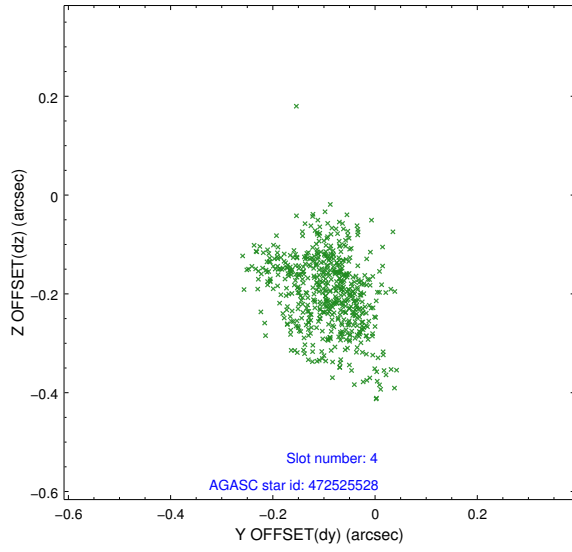
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-I-2	7.06	291	1.000	0.071	-0.167	0.007	0.010	0.000000	0.000000	846.66	-1305
1	FID		HRC-I-3	7.12	291	1.000	-0.367	0.024	0.006	0.010	0.000000	0.000000	-1192.12	996
2	FID		HRC-I-4	7.05	291	1.000	0.415	0.056	0.007	0.011	0.000000	0.000000	1272.94	1002
3	GUIDE	used	472523760	8.20	579	1.000	0.046	-0.044	0.101	0.163	331.645363	45.403260	1754.61	1058
4	GUIDE	used	472525528	6.63	582	1.000	-0.089	-0.191	0.102	0.163	331.551102	45.248694	2115.82	1548
5	GUIDE	used	472535576	7.83	582	1.000	0.078	0.443	0.109	0.202	331.438373	46.291802	1532.76	-2171
6	GUIDE	used	472527720	6.99	582	1.000	-0.033	-0.220	0.116	0.177	331.460205	45.112509	2452.42	1966
7	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0

2.4 Star Slots

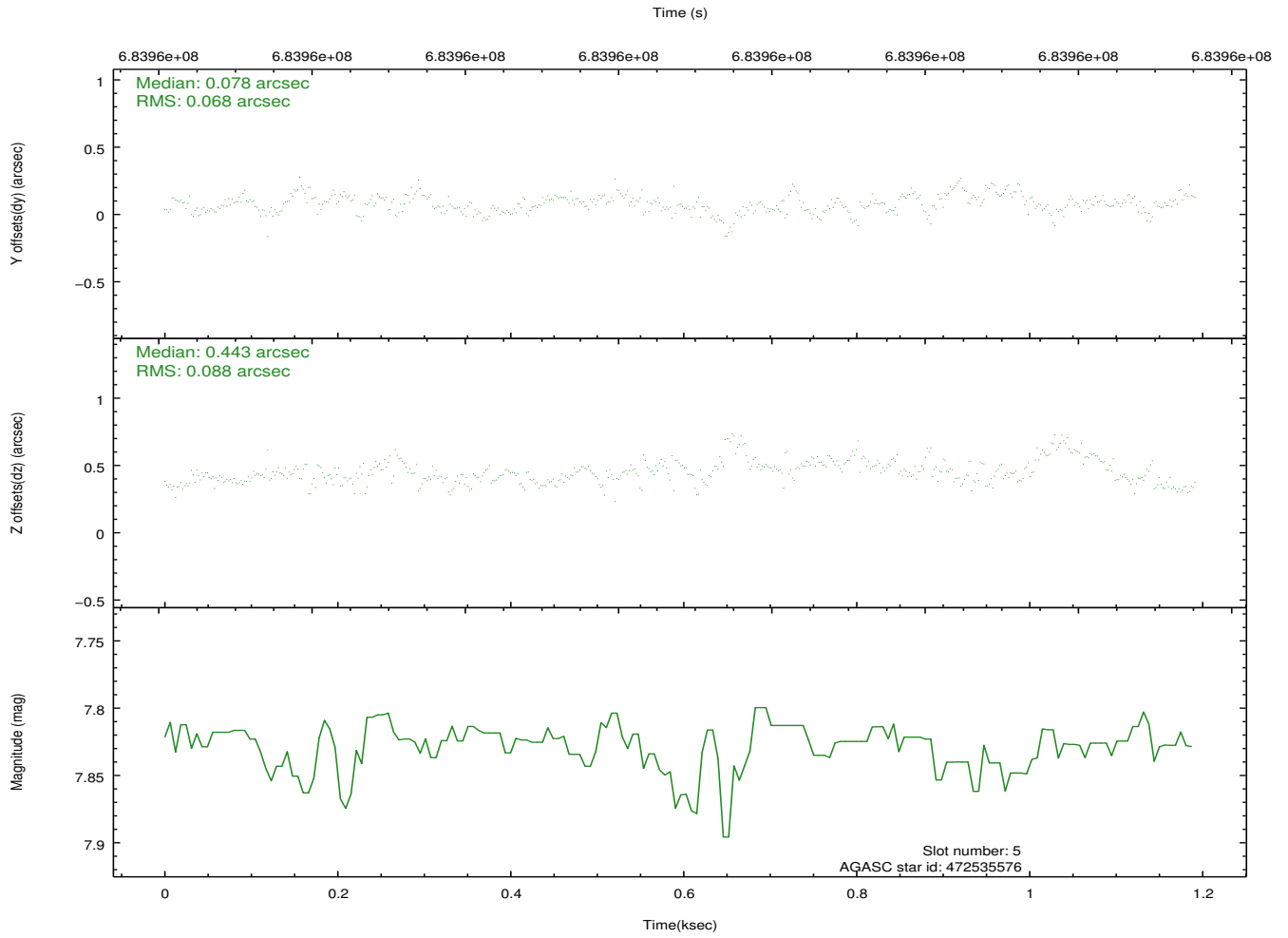
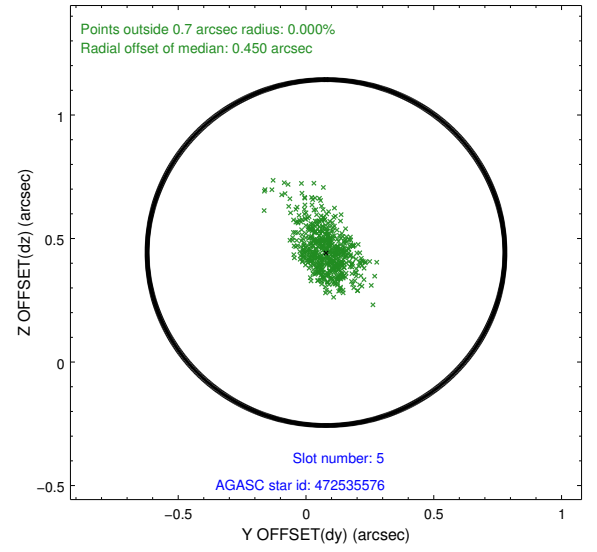
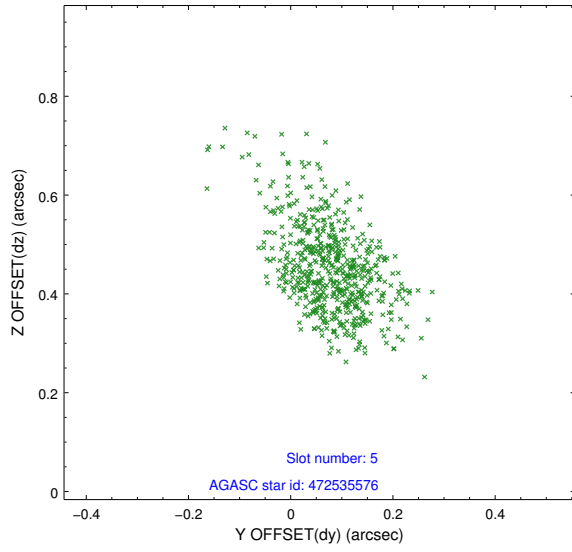
2.4.1 Slot 3



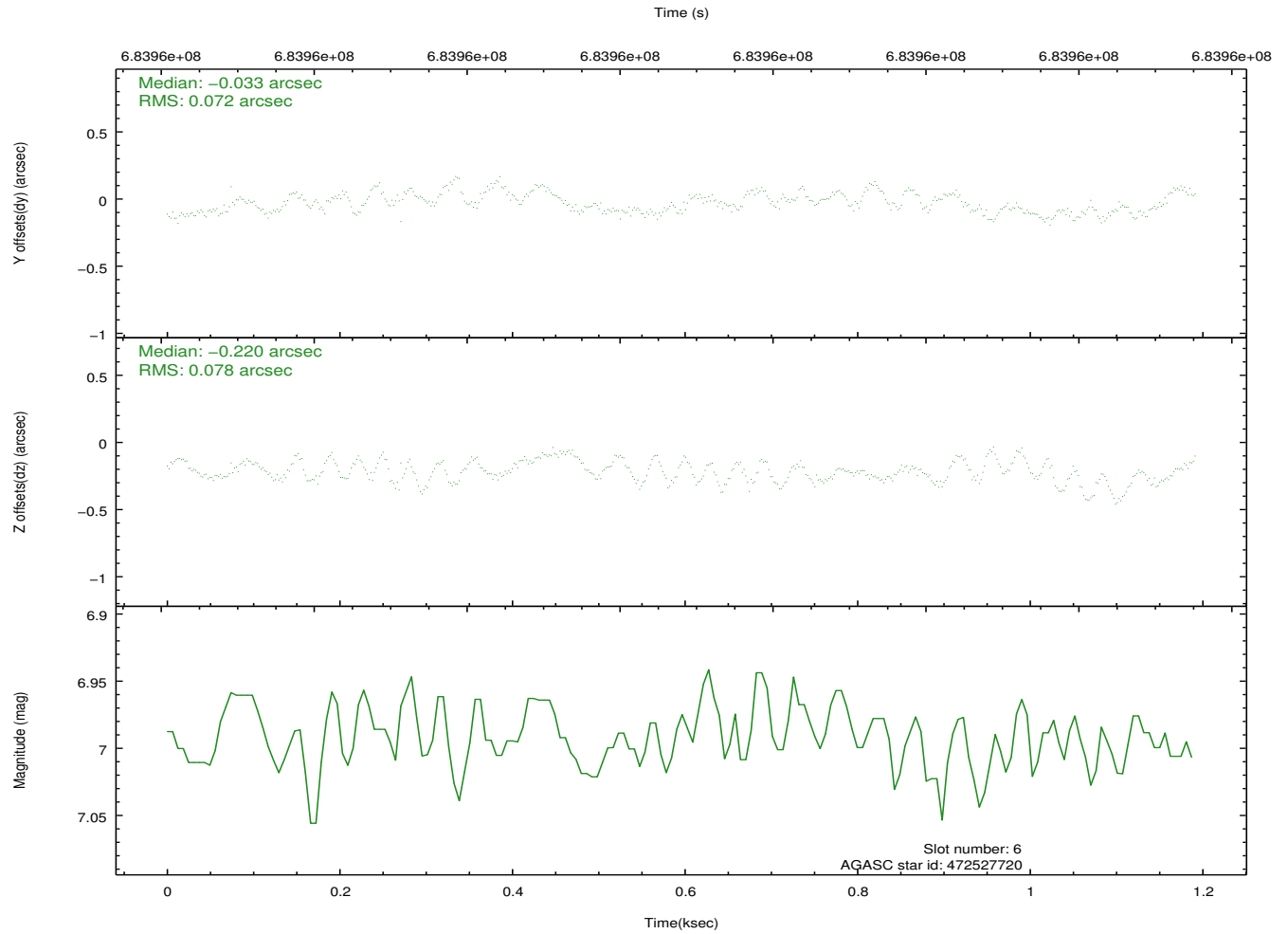
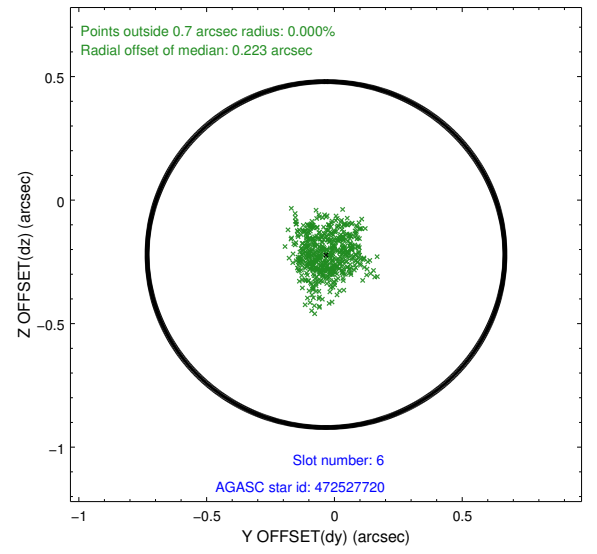
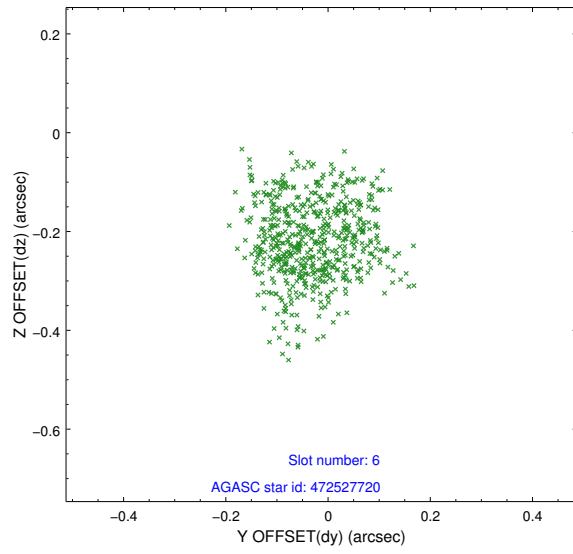
2.4.2 Slot 4



2.4.3 Slot 5

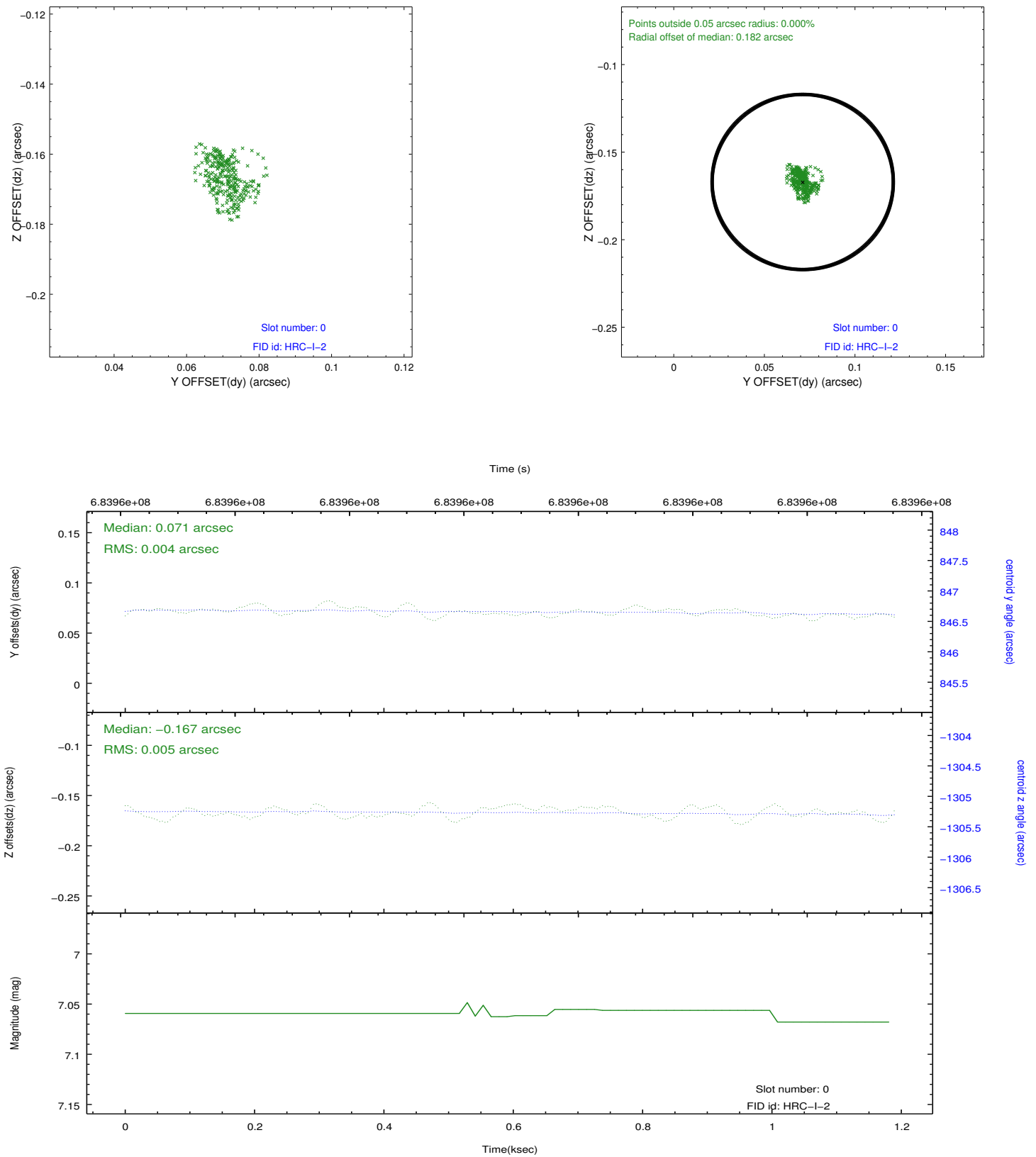


2.4.4 Slot 6

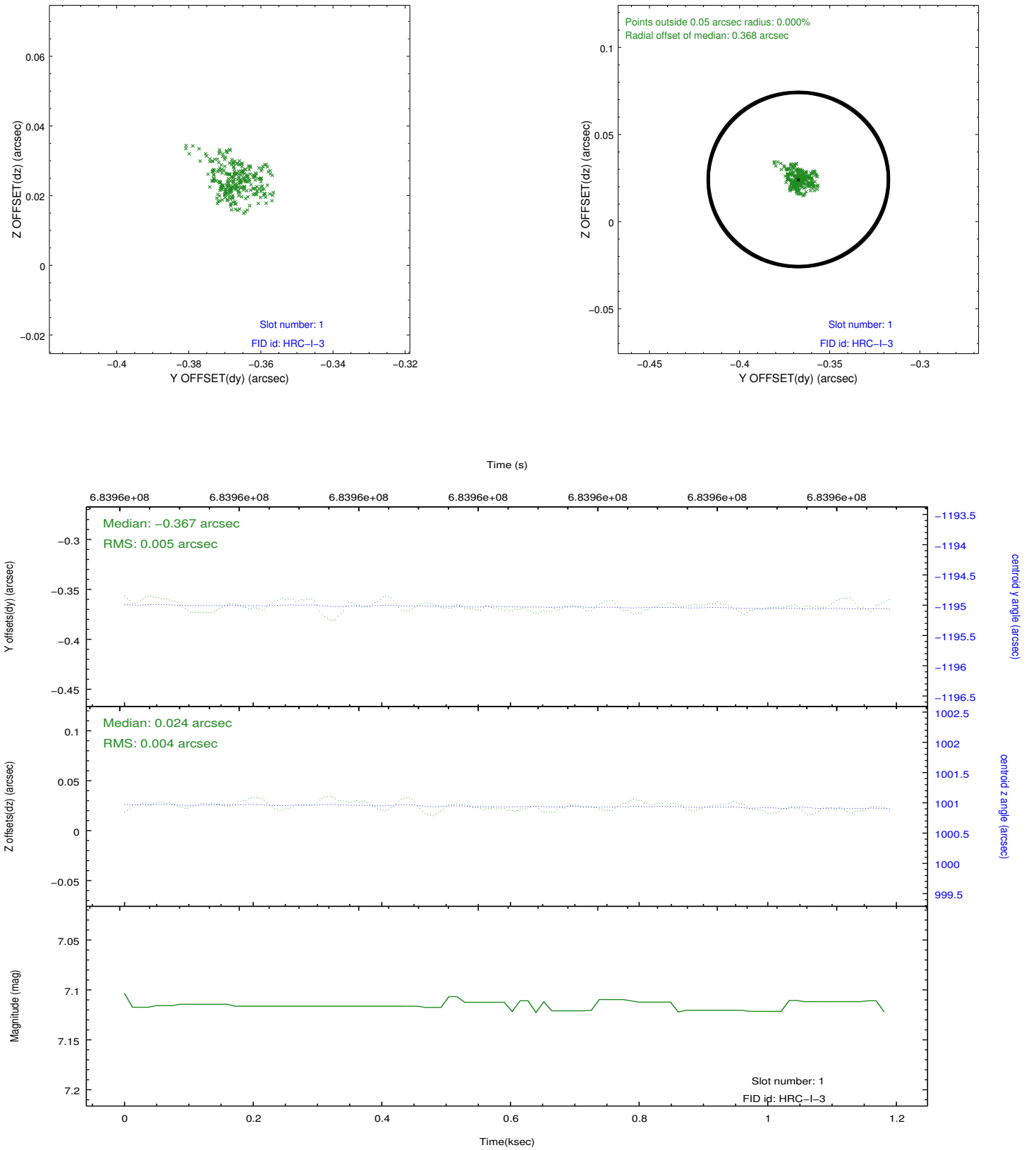


2.5 FID Slots

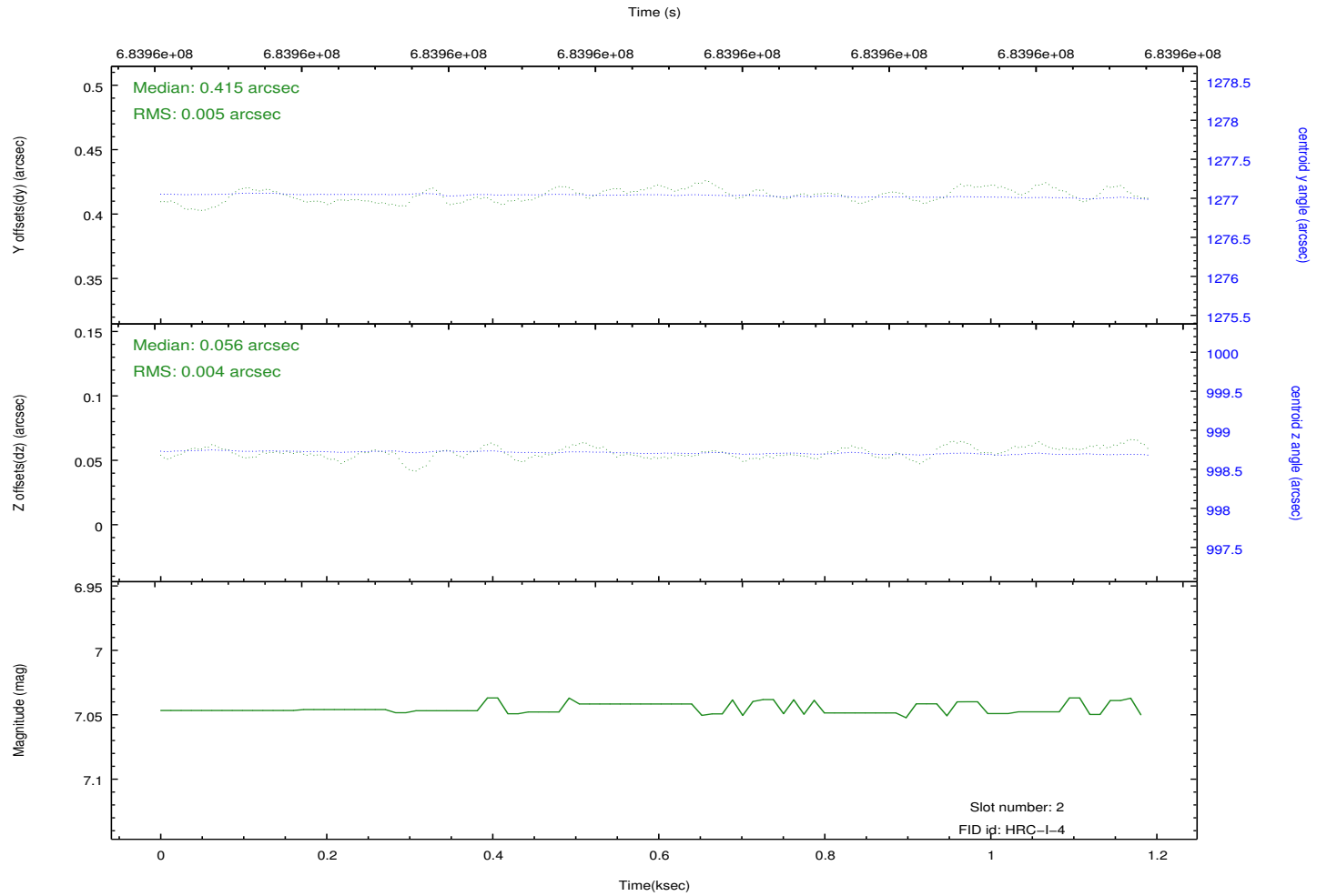
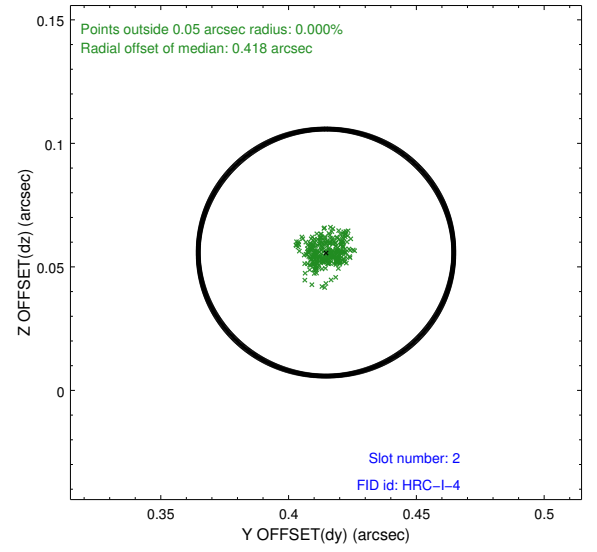
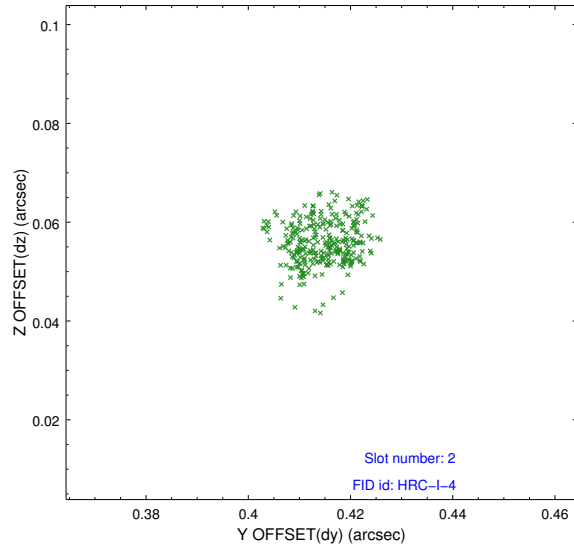
2.5.1 Slot 0



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)	2019.09.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1902813215256

A.2 Comments

The guide star in slot 7 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this slot from the solution.