

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 14279 - L2 Version 2
Chandra X-Ray Center

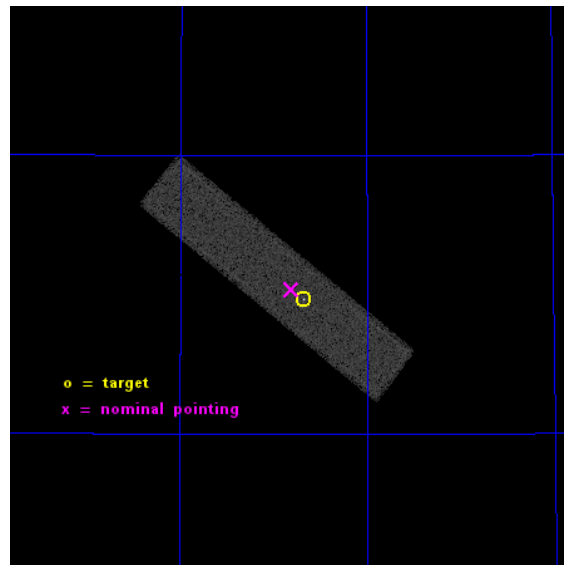
L2 Processing Date : Nov 26 2014

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Parameters	4
2.1.3	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

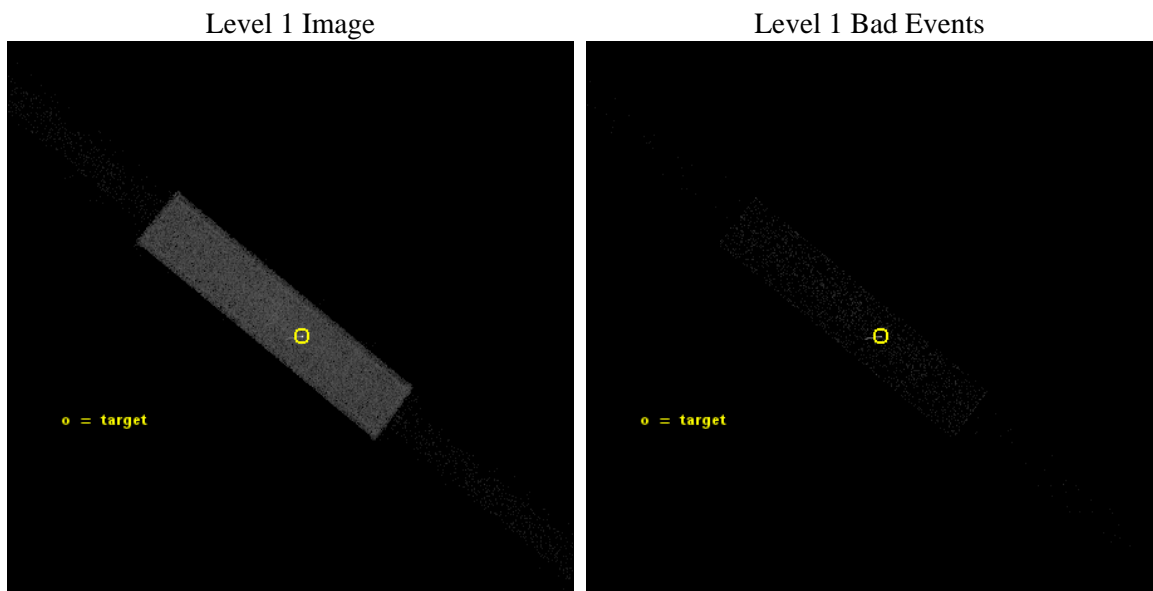
seq_num	291030	Sequence number
obs_id	14279	Observation id
title	AO-13 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.20222312313	Nominal RA [deg]
dec_nom	45.759909434602	Nominal Dec [deg]
roll_nom	218.4983069717	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1155.4313120246	[s]
livetime	1147.8885493979	Ontime multiplied by DTCOR
l2events	51429	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	Processing system revision	ontime	1155.4313120246	[s]
caldbver	4.6.4	 	l1events	84519	Number of level 1 events
date	2014-11-27T03:05:40	Date and time of file creation			
revision	2	Processing version of data			

2.1.3 Events

Level 1 Events

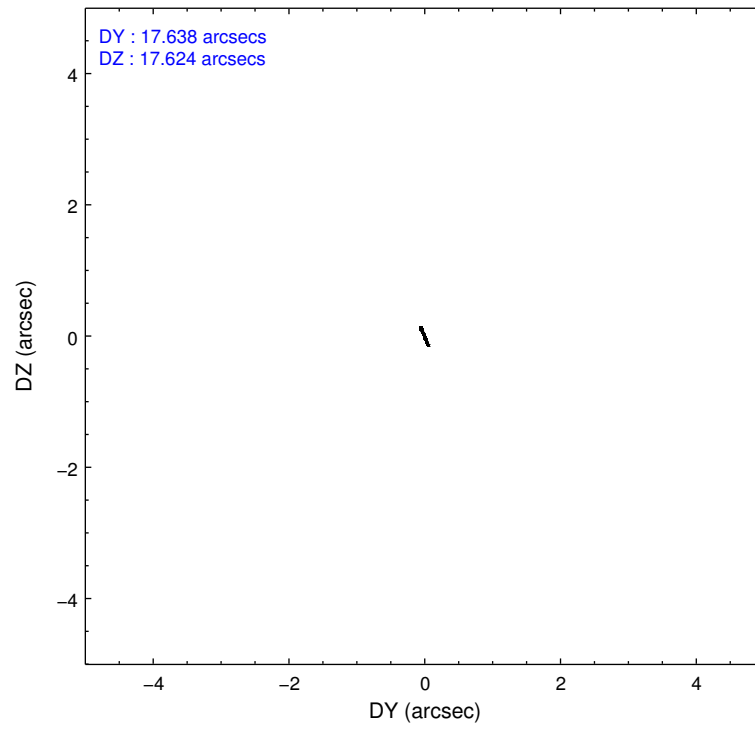
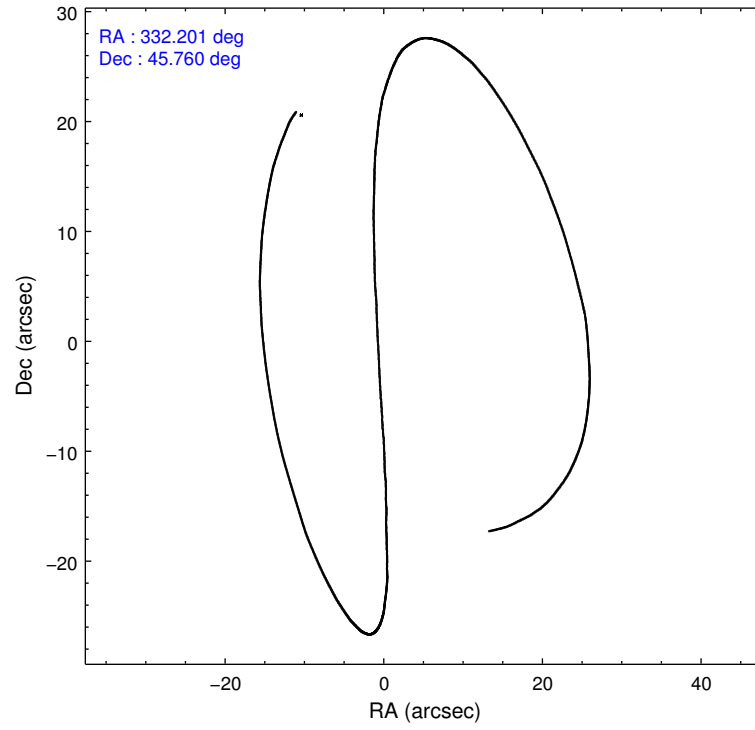
	segment 1	segment 2	segment 3
level 1 events	763	82985	771
rejected events	763	19072	771
rejected %	100%	22%	100%

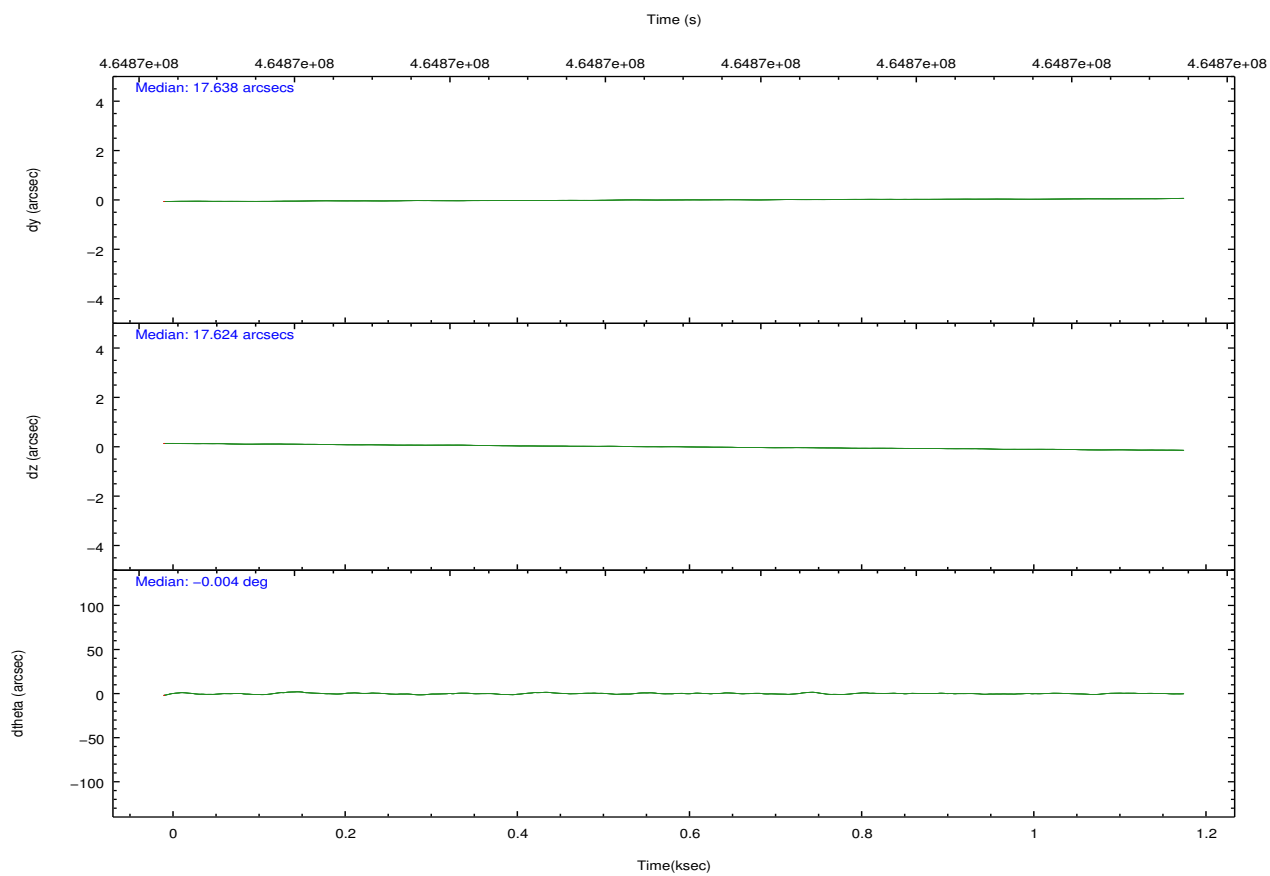
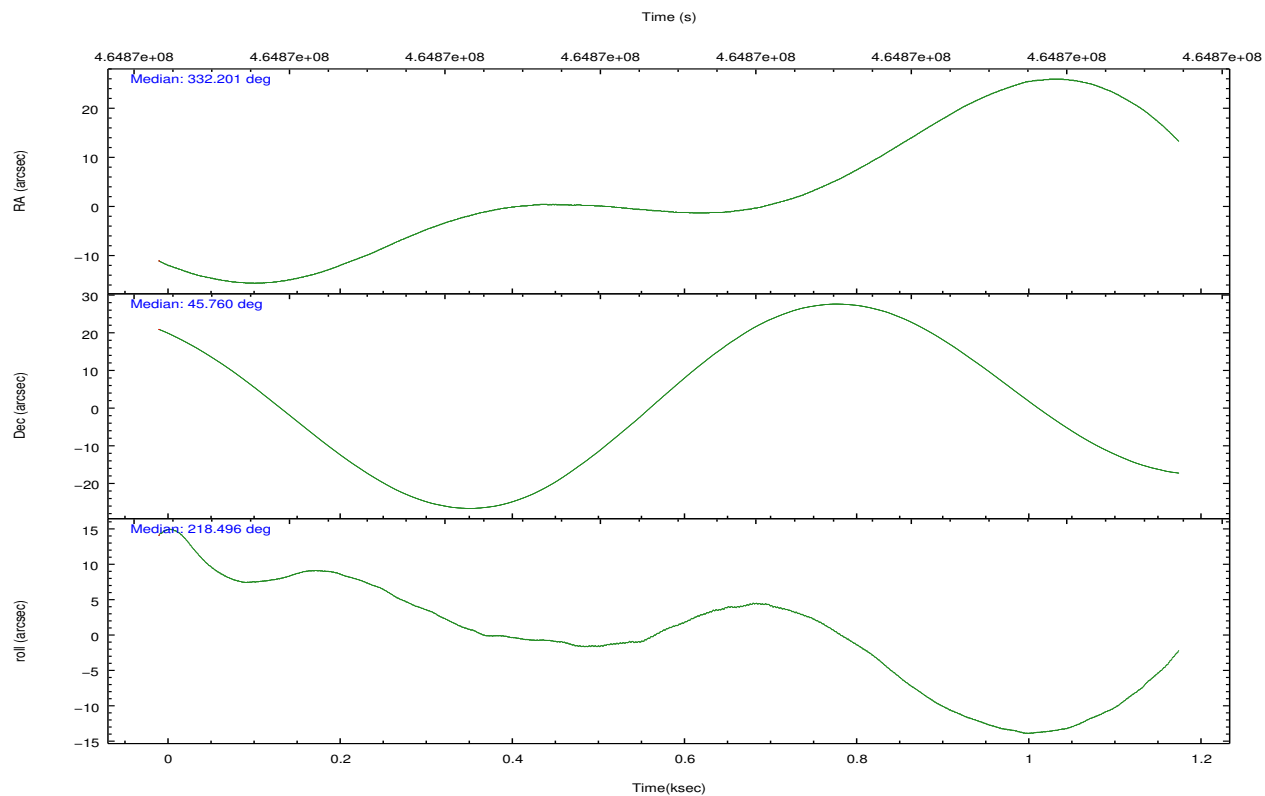
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-S	HRC-S
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	332.215169	332.2022231231285
[deg] Pointing Dec	45.787313	45.75990943460235
[deg] Pointing Roll	218.421634	218.4983069717041
[mm] SIM focus pos	-1.533336	-1.526339935833849
[mm] SIM defocus	7.710433287538843e-07	0.006996703570447904
[mm] SIM translation stage pos	250.455976	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	464871471.184000	464871095.18361
Observation start date	2012-09-24T10:56:44	2012-09-24T10:51:35
[s] Observation end time (MET)	464872471.184000	464872605.00869
Observation end date	2012-09-24T11:13:24	2012-09-24T11:16:45

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

2.3 Aspect



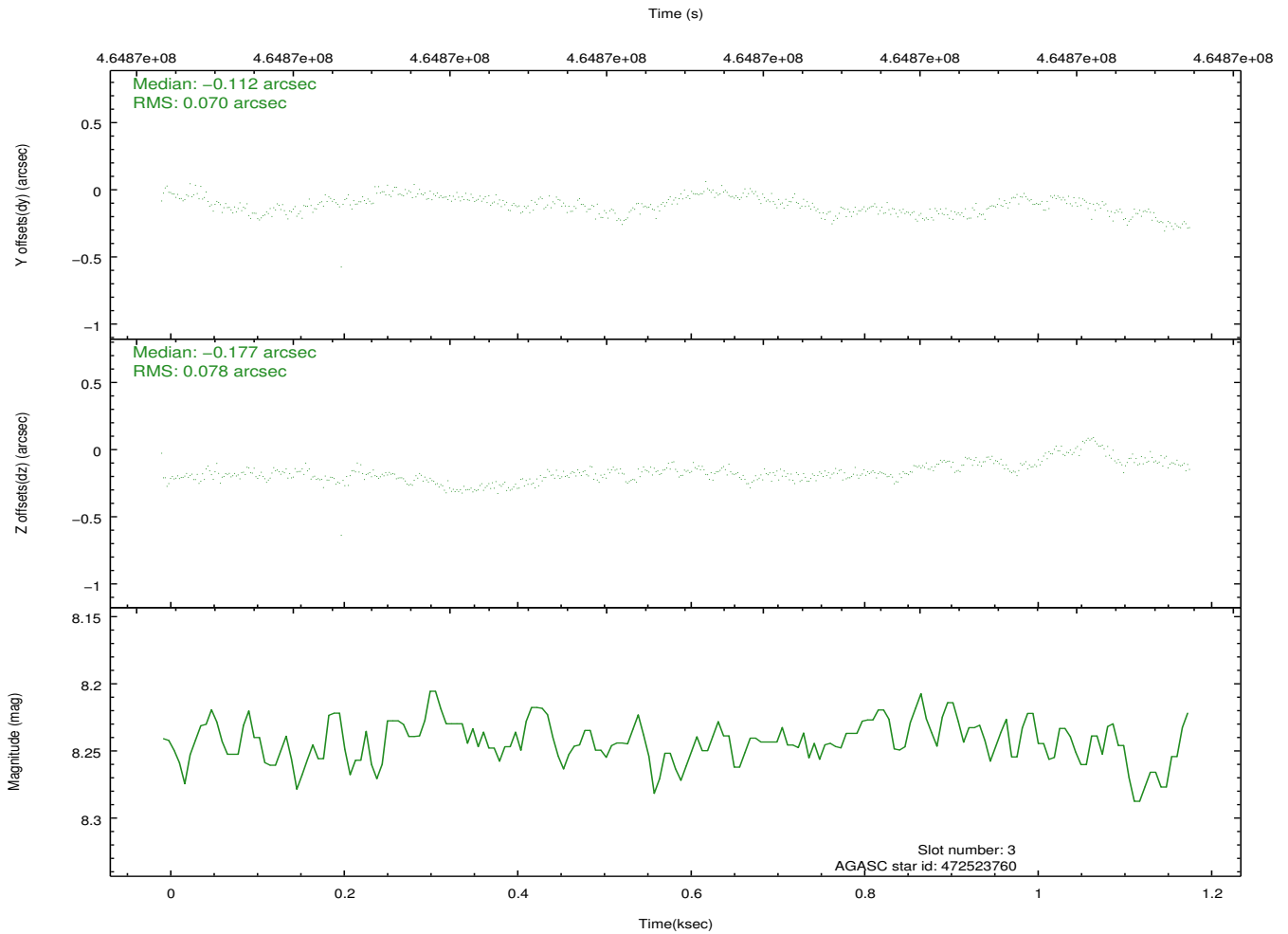
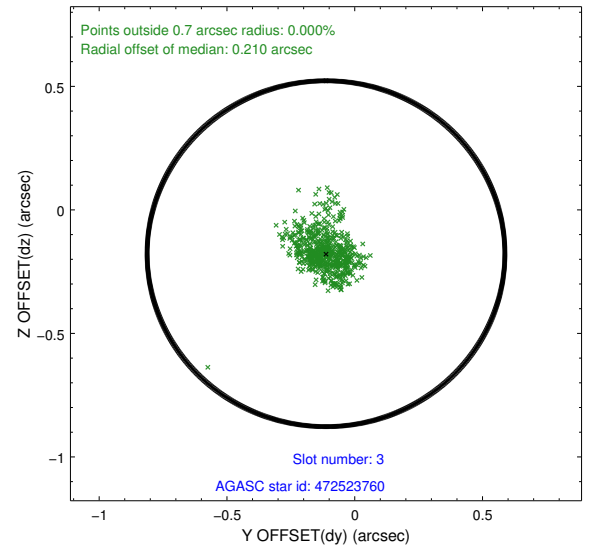
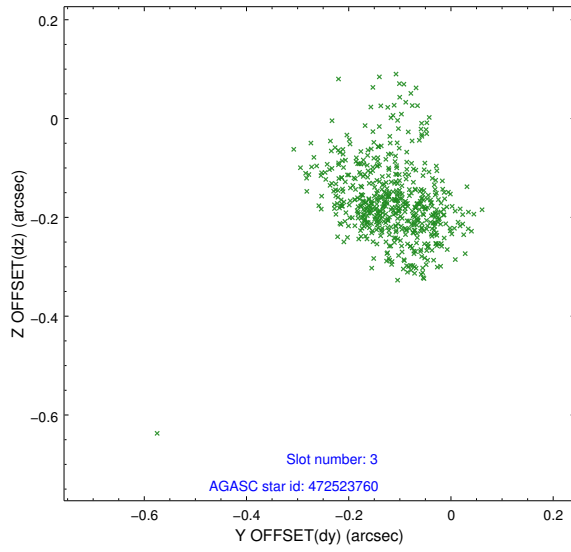


Slot Statistics

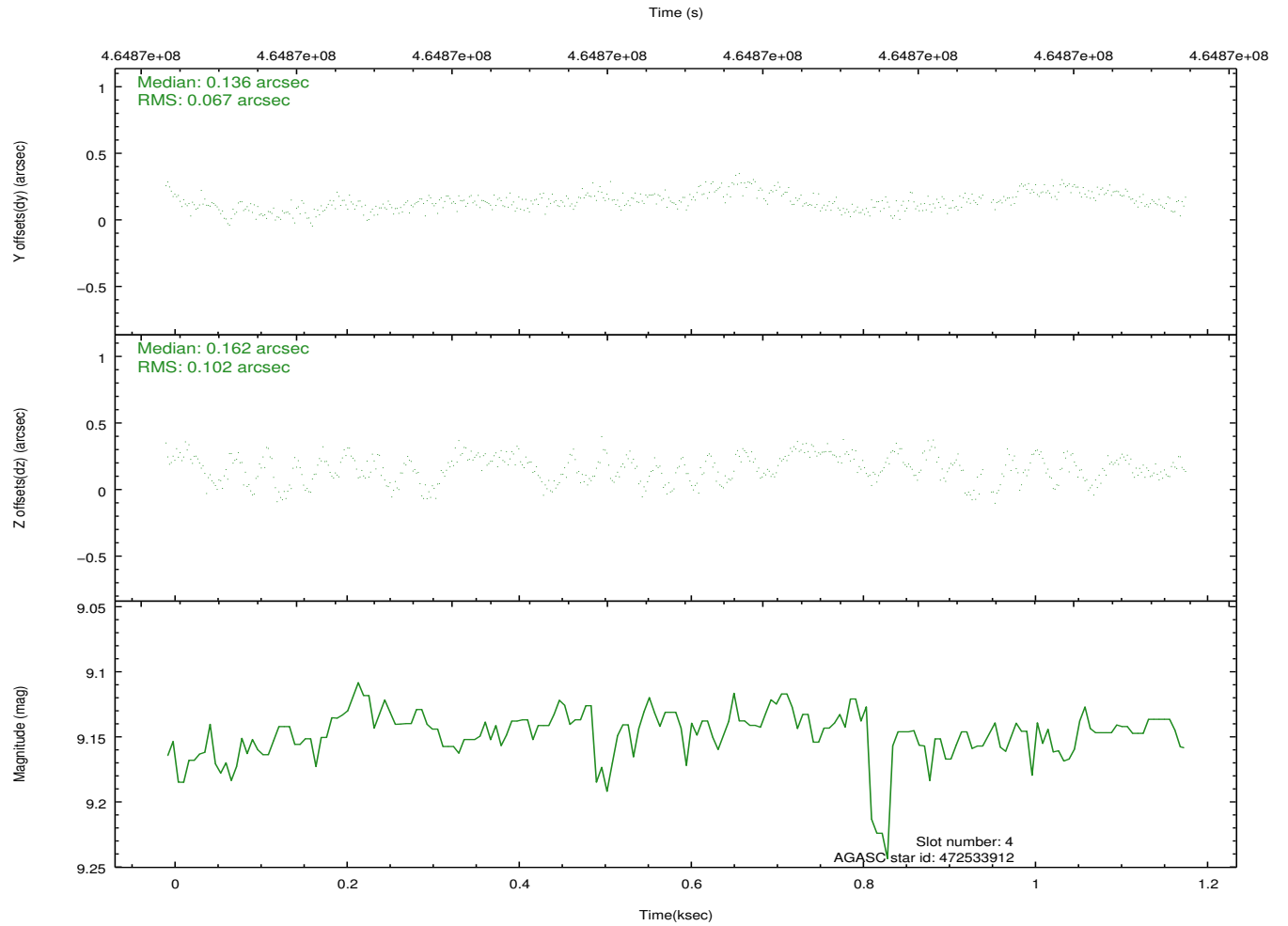
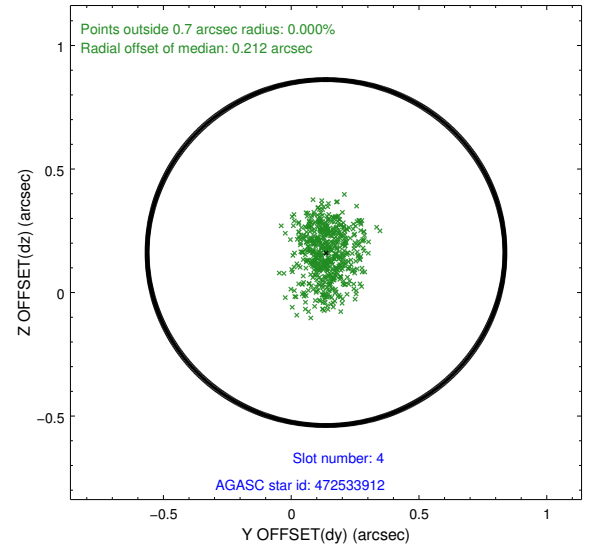
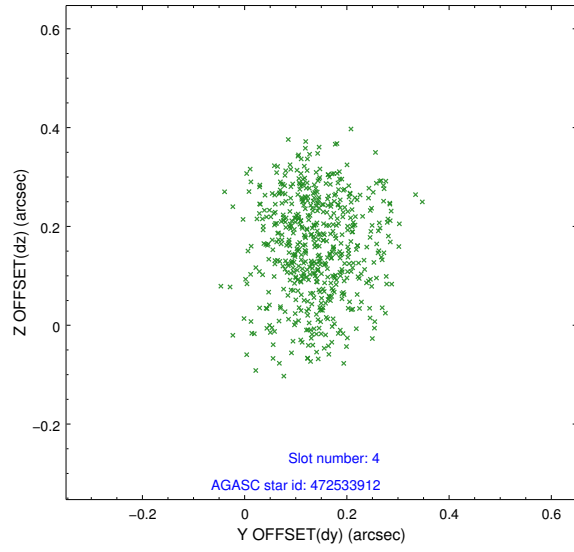
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-1	7.07	290	0.050	-0.153	0.007	0.012	0.000000	0.000000	-1172.12	-466.55
1	FID		HRC-S-2	7.05	290	0.261	-0.122	0.006	0.011	0.000000	0.000000	1223.71	-460.76
2	FID		HRC-S-3	7.07	290	0.079	-0.027	0.007	0.016	0.000000	0.000000	-1170.60	561.50
3	GUIDE	used	472523760	8.24	579	-0.112	-0.177	0.106	0.179	331.645363	45.403260	1984.77	183.47
4	GUIDE	used	472533912	9.15	575	0.136	0.162	0.133	0.206	331.791136	46.368695	-473.26	-2296.69
5	GUIDE	used	472655152	9.40	578	-0.038	-0.167	0.152	0.261	332.504239	45.862991	-738.36	231.29
6	GUIDE	used	472665256	9.02	579	0.103	0.145	0.109	0.166	332.808125	46.195041	-2074.04	-236.17
7	GUIDE	used	472654568	9.40	574	-0.091	0.052	0.146	0.386	332.194449	45.063576	1657.04	2007.79

2.4 Star Slots

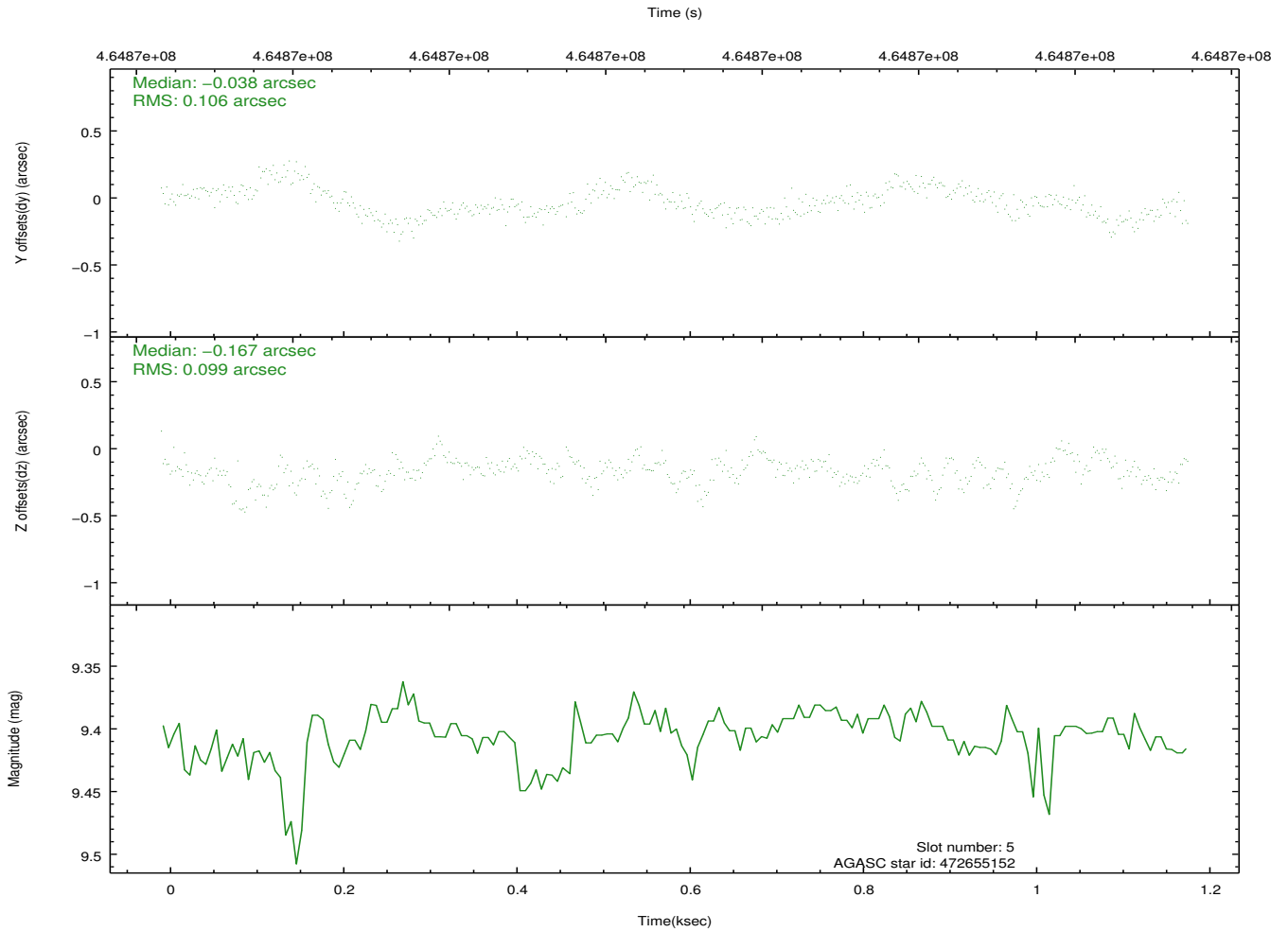
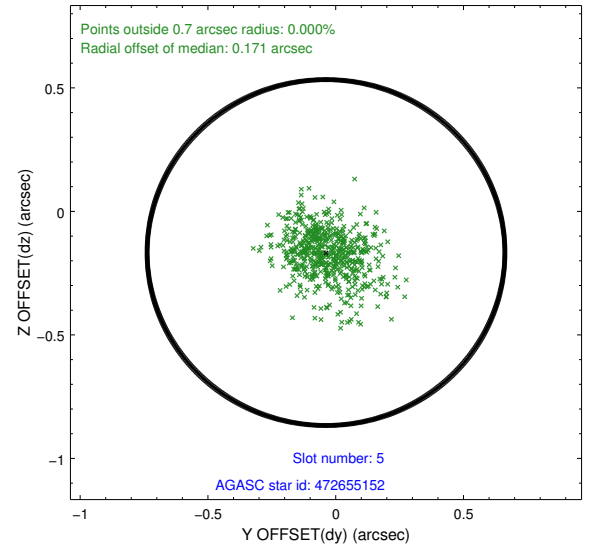
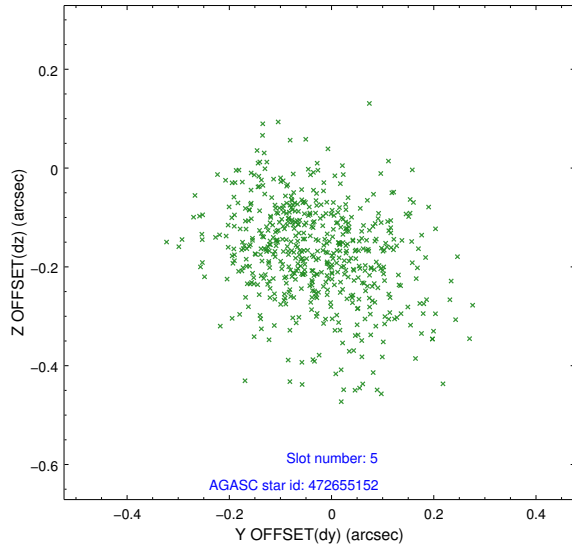
2.4.1 Slot 3



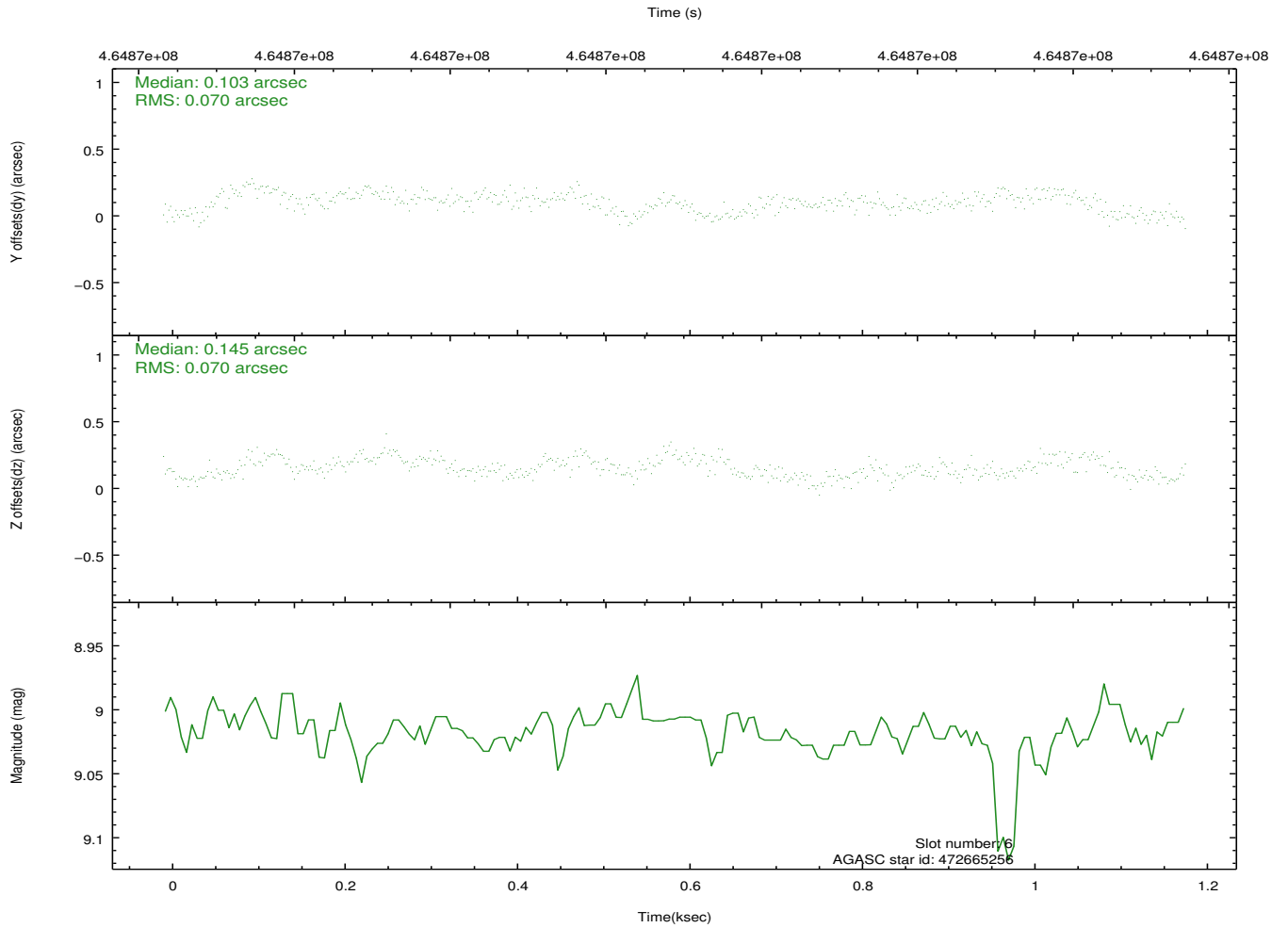
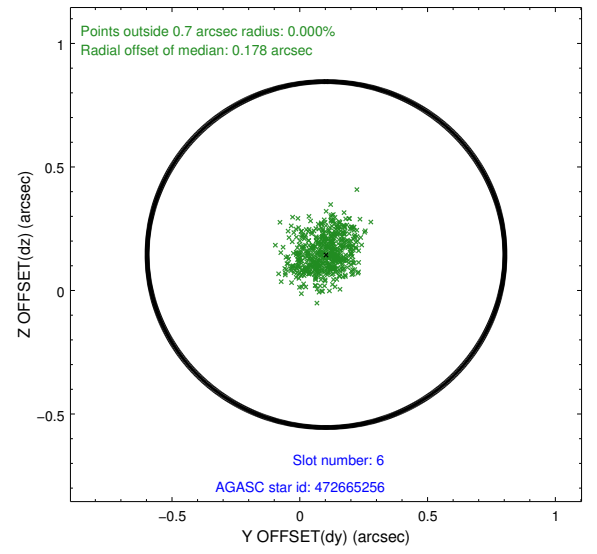
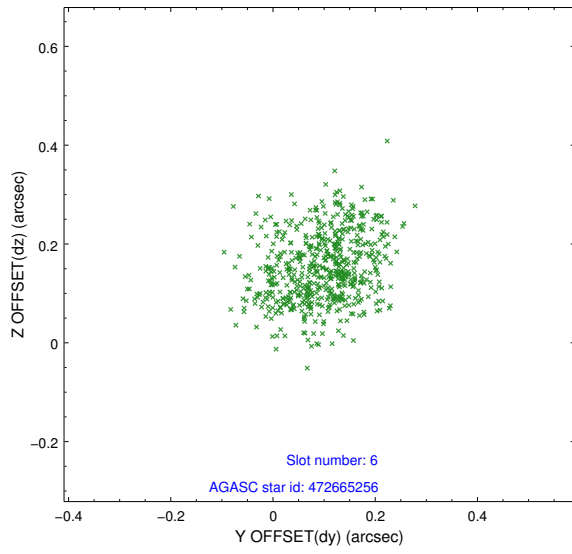
2.4.2 Slot 4



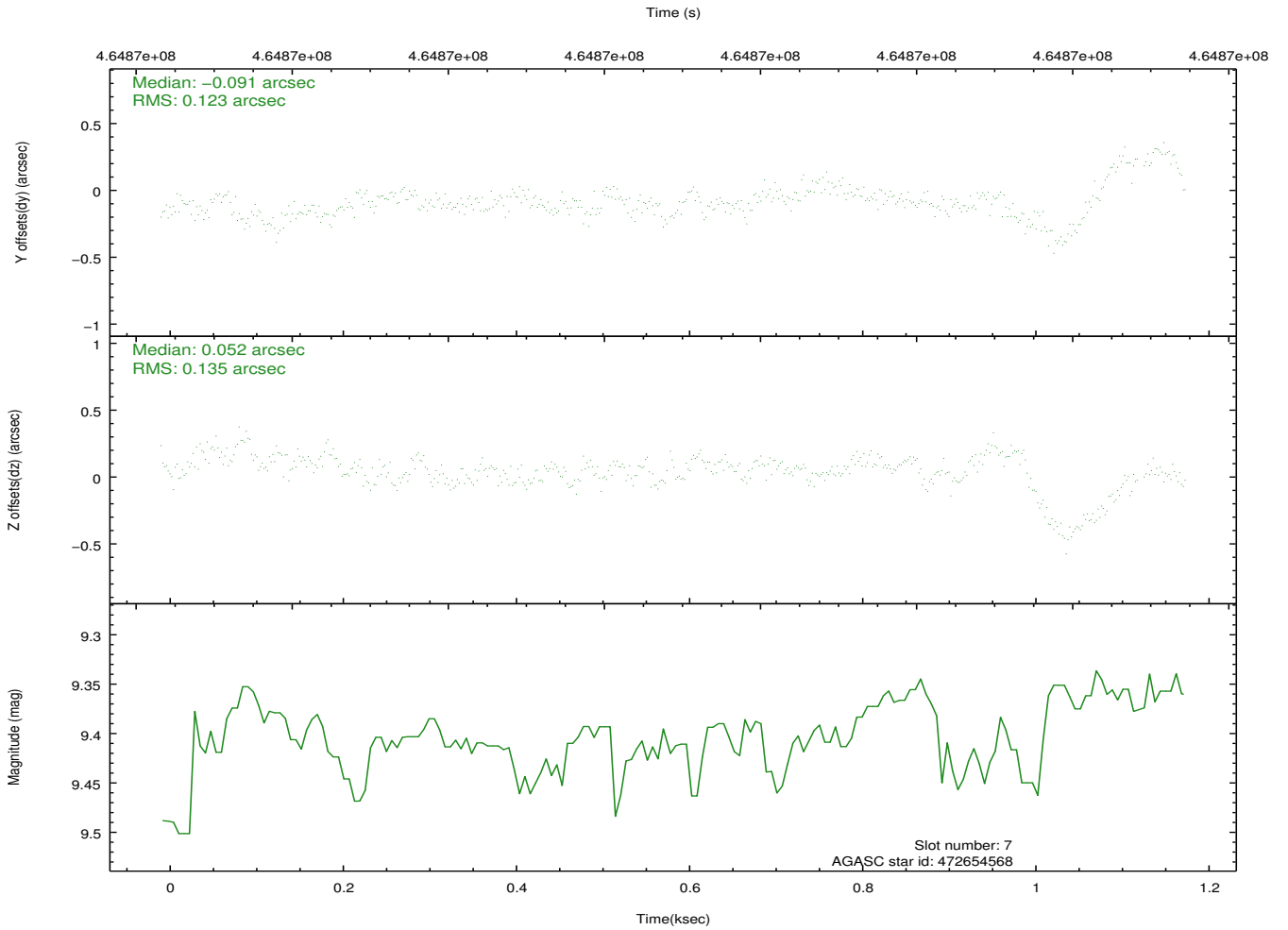
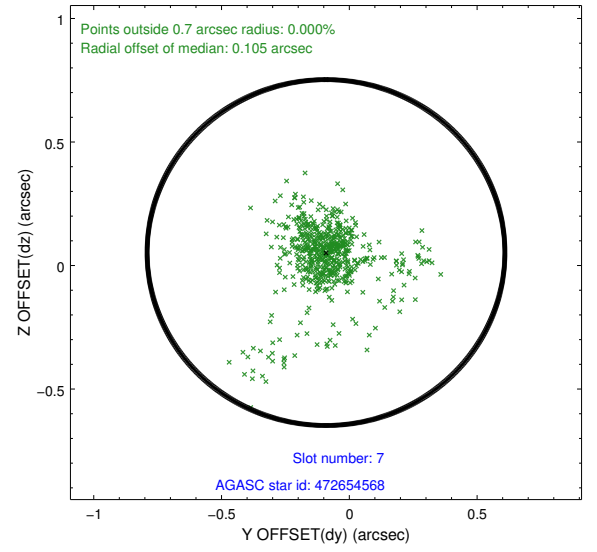
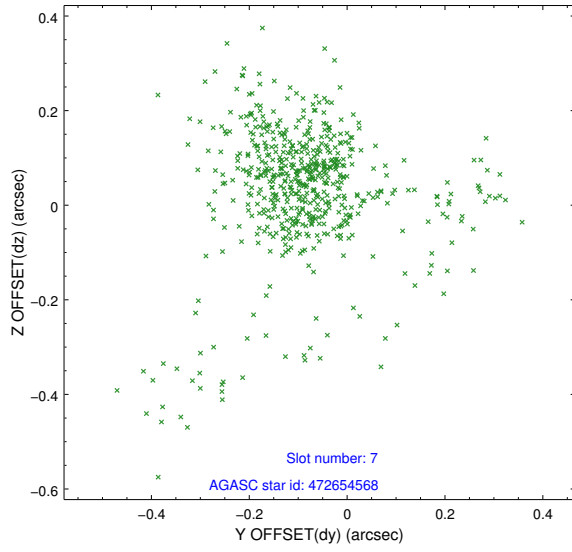
2.4.3 Slot 5



2.4.4 Slot 6

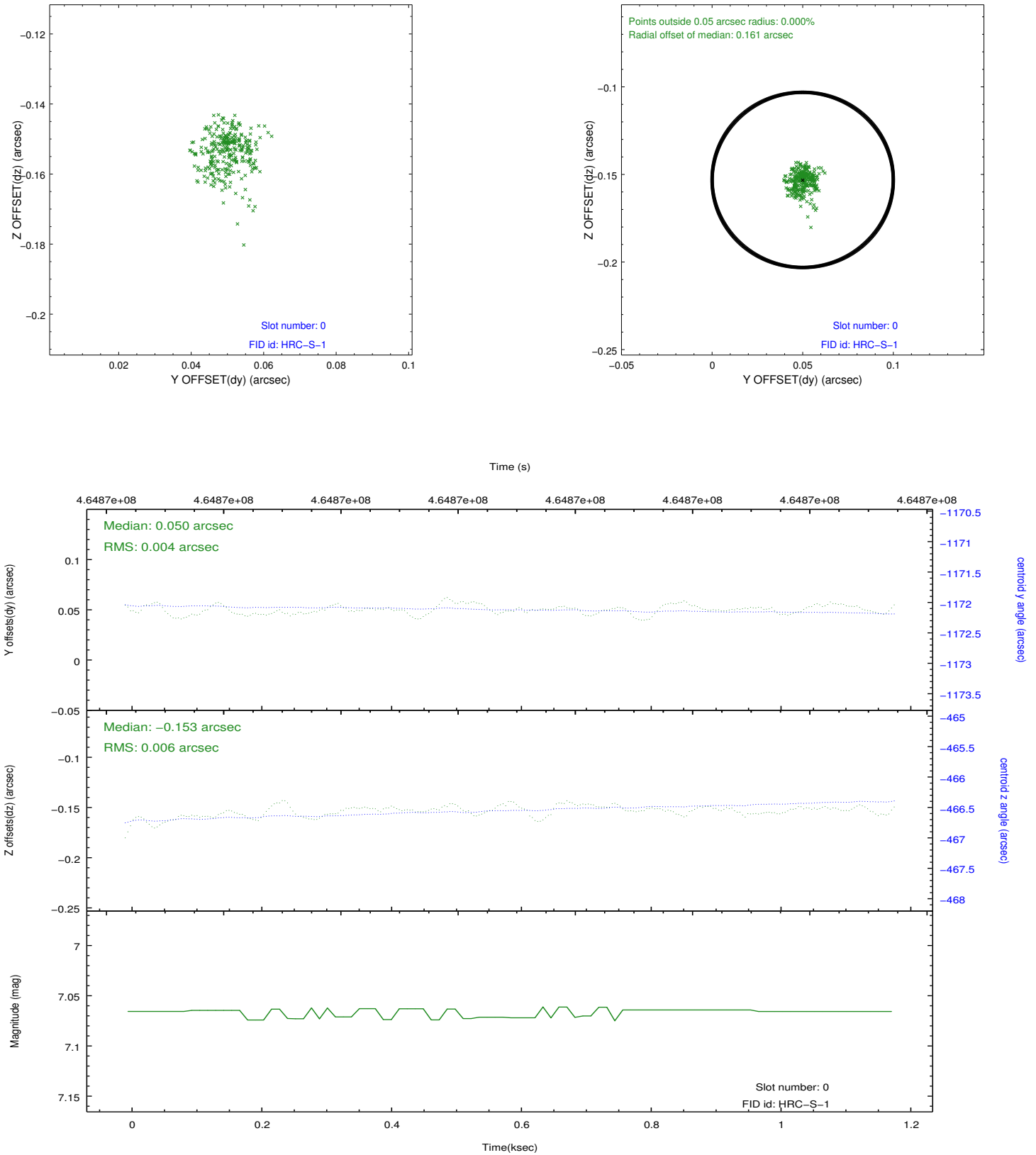


2.4.5 Slot 7

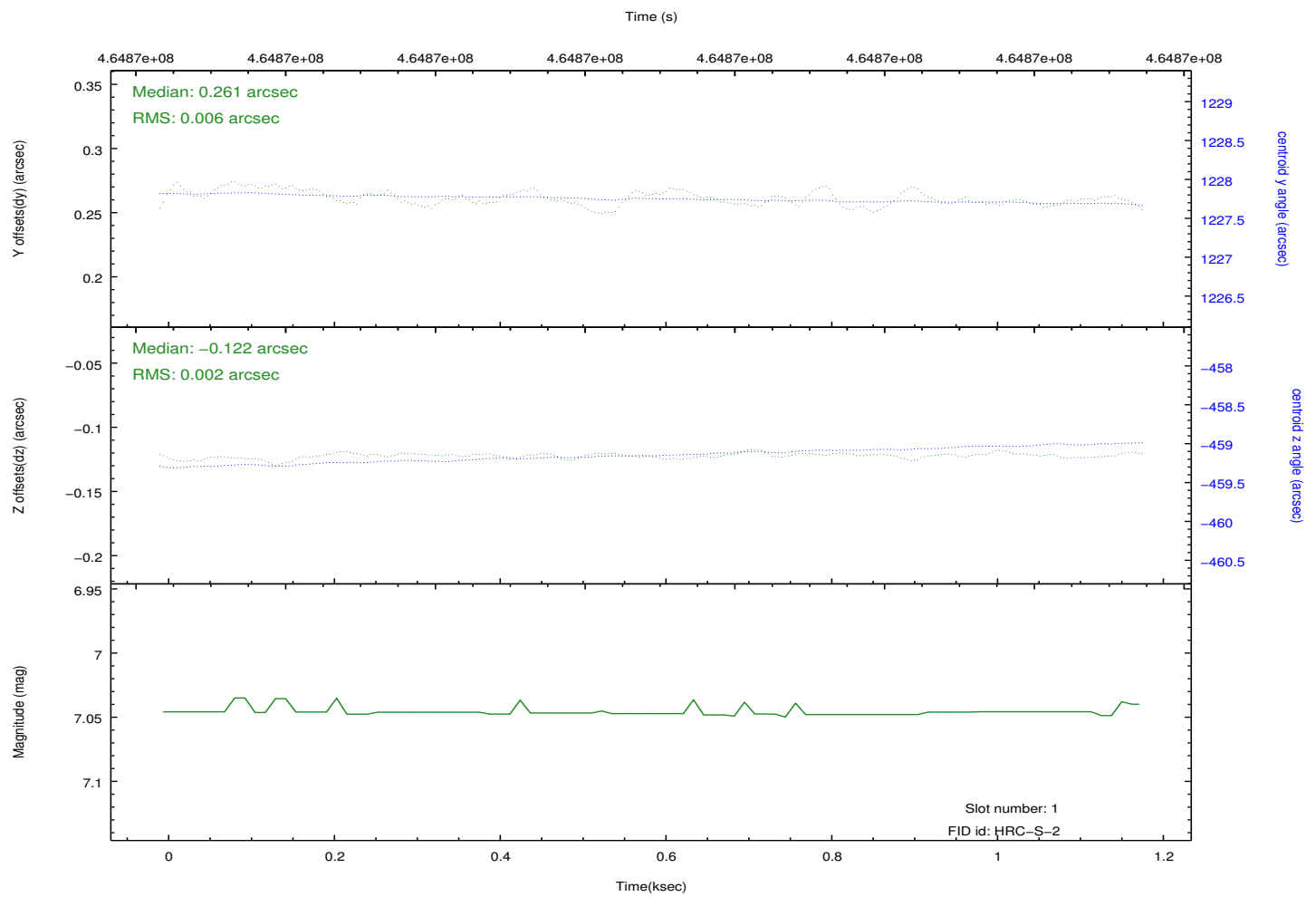
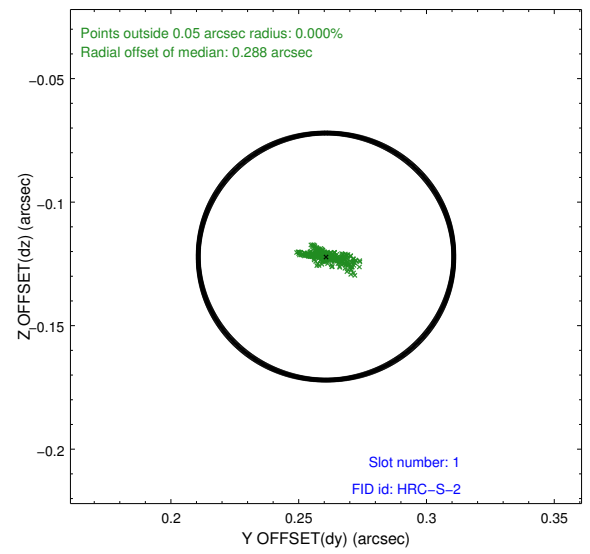
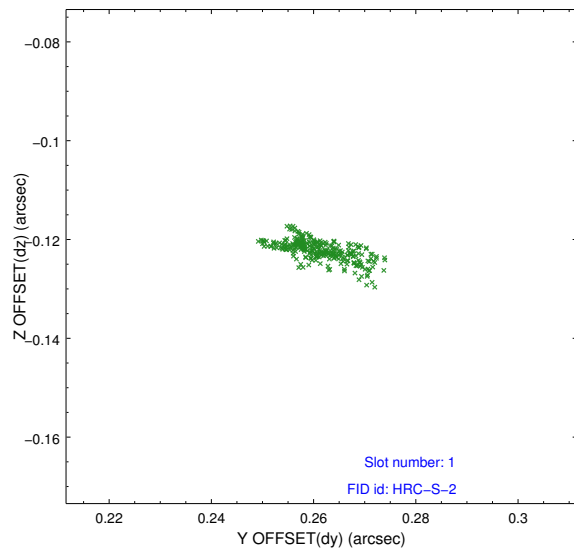


2.5 FID Slots

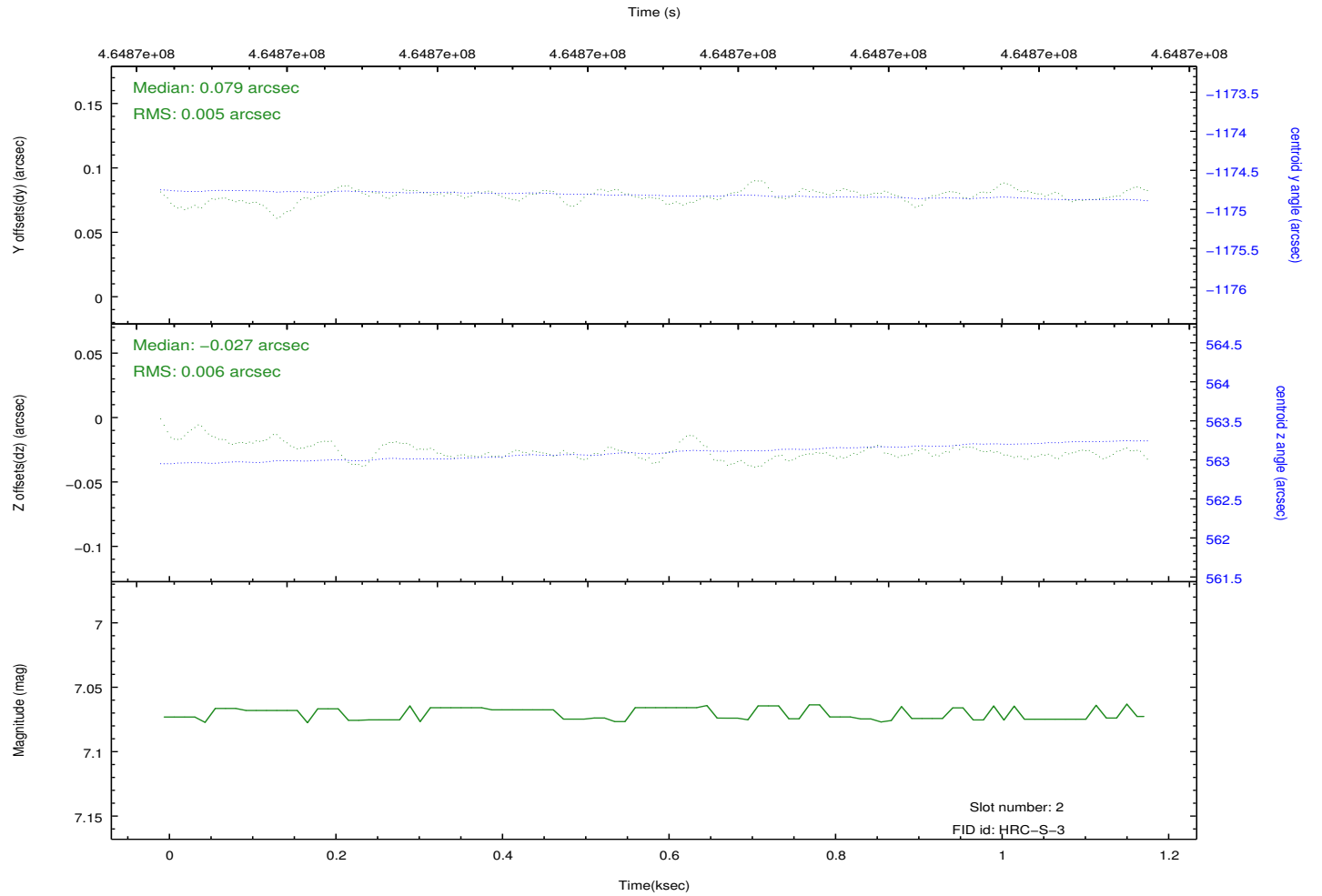
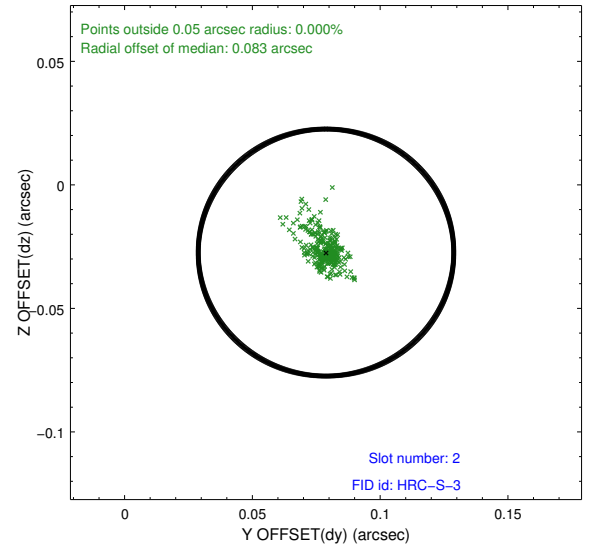
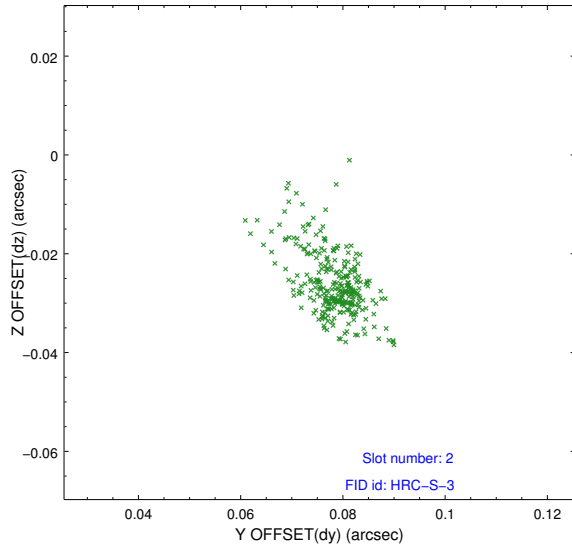
2.5.1 Slot 0



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)	2014.12.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1554313120246

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.