

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 15461 - L2 Version 2
Chandra X-Ray Center

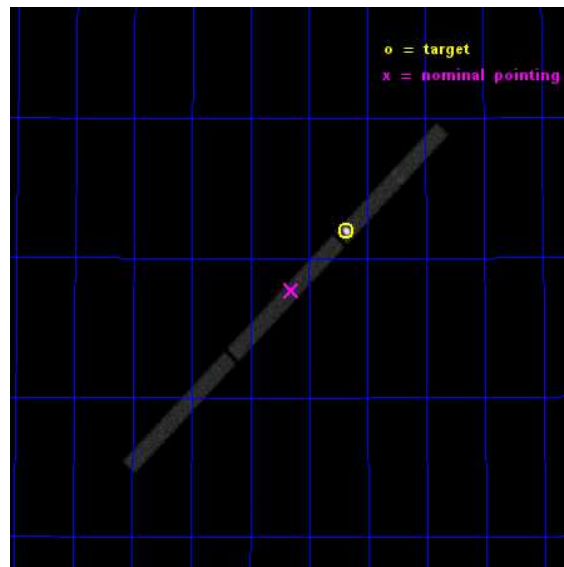
L2 Processing Date : Dec 1 2014

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

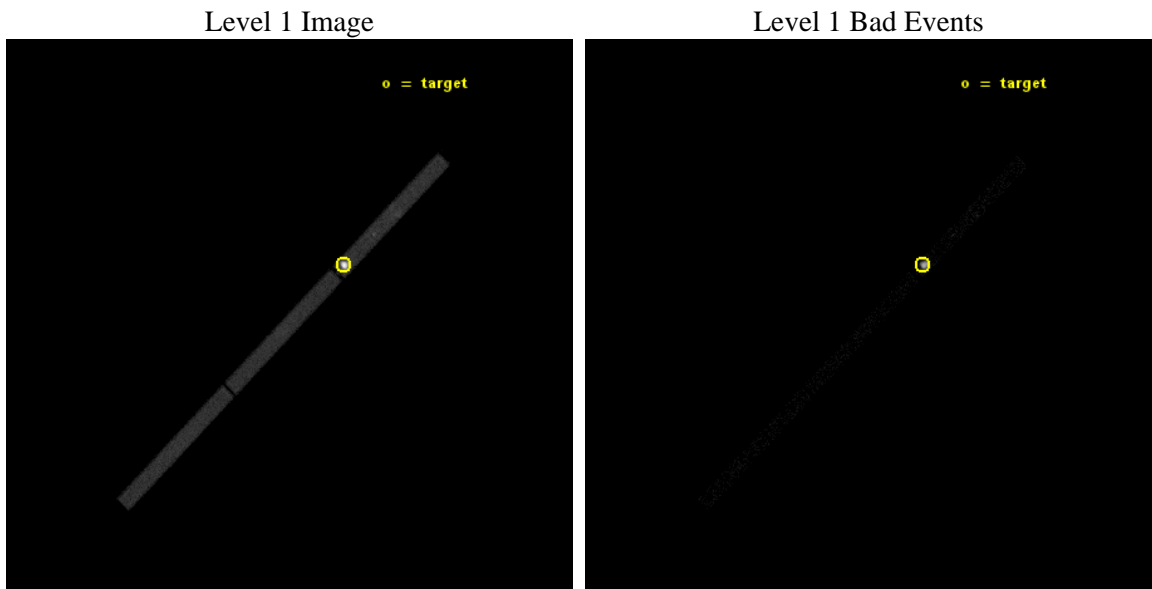
seq_num	291140	Sequence number
obs_id	15461	Observation id
title	AO-14 Calibration Observations of HZ43 to measure the gain accross the HRC-S plate gaps	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	HZ43	Source name
ra_targ	199.090417	Observer's specified target RA [deg]
dec_targ	29.098306	Observer's specified target Dec [deg]
ra_nom	199.32498489493	Nominal RA [deg]
dec_nom	28.884933390807	Nominal Dec [deg]
roll_nom	133.94968492163	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1278.1750690937	[s]
livetime	852.45600846339	Ontime multiplied by DTCOR
l2events	216021	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	1100.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	1278.1750690937	[s]
caldbver	4.6.4	 	l1events	296348	Number of level 1 events
date	2014-12-02T03:07:17	Date and time of file creation			
revision	2	Processing version of data			

2.1.3 Events

Level 1 Events

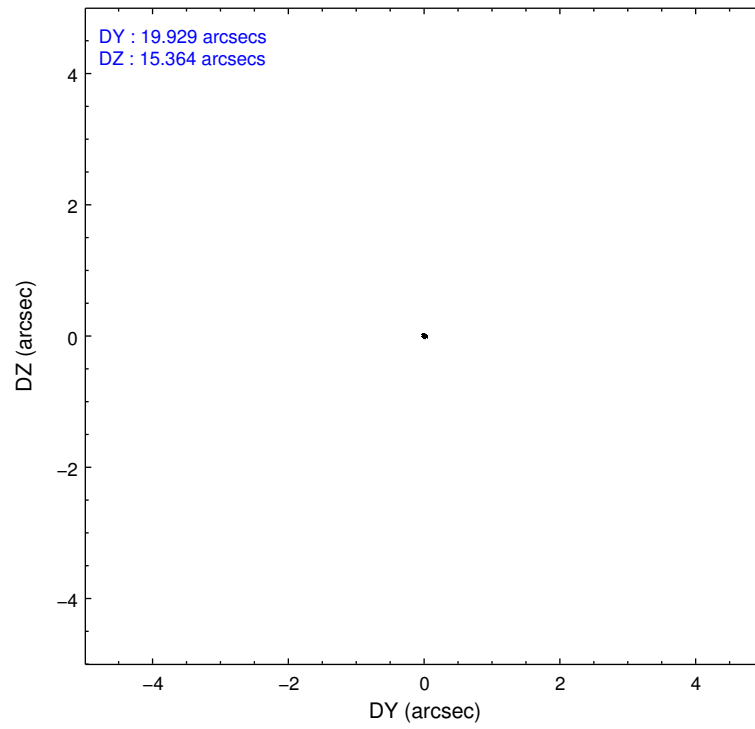
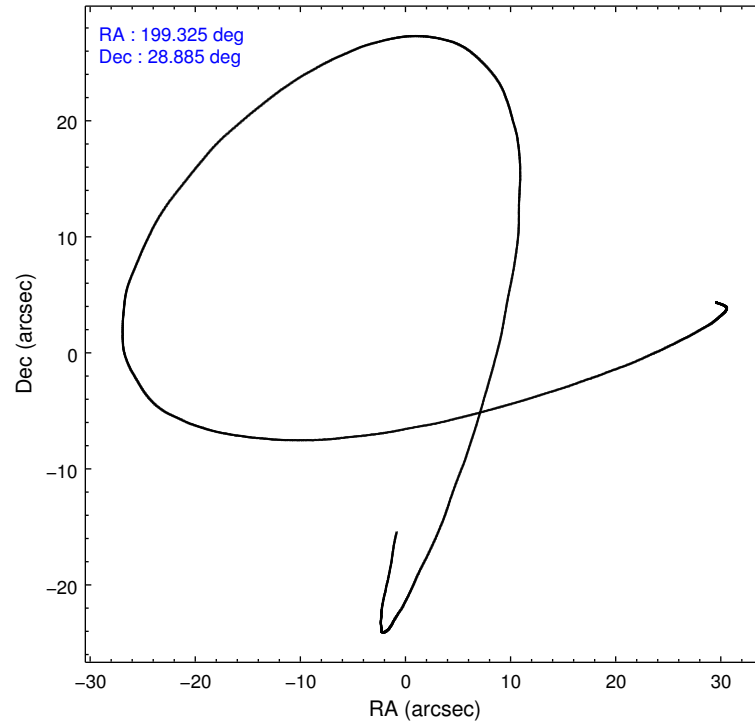
	segment 1	segment 2	segment 3
level 1 events	29615	29245	237488
rejected events	6047	6055	48568
rejected %	20%	20%	20%

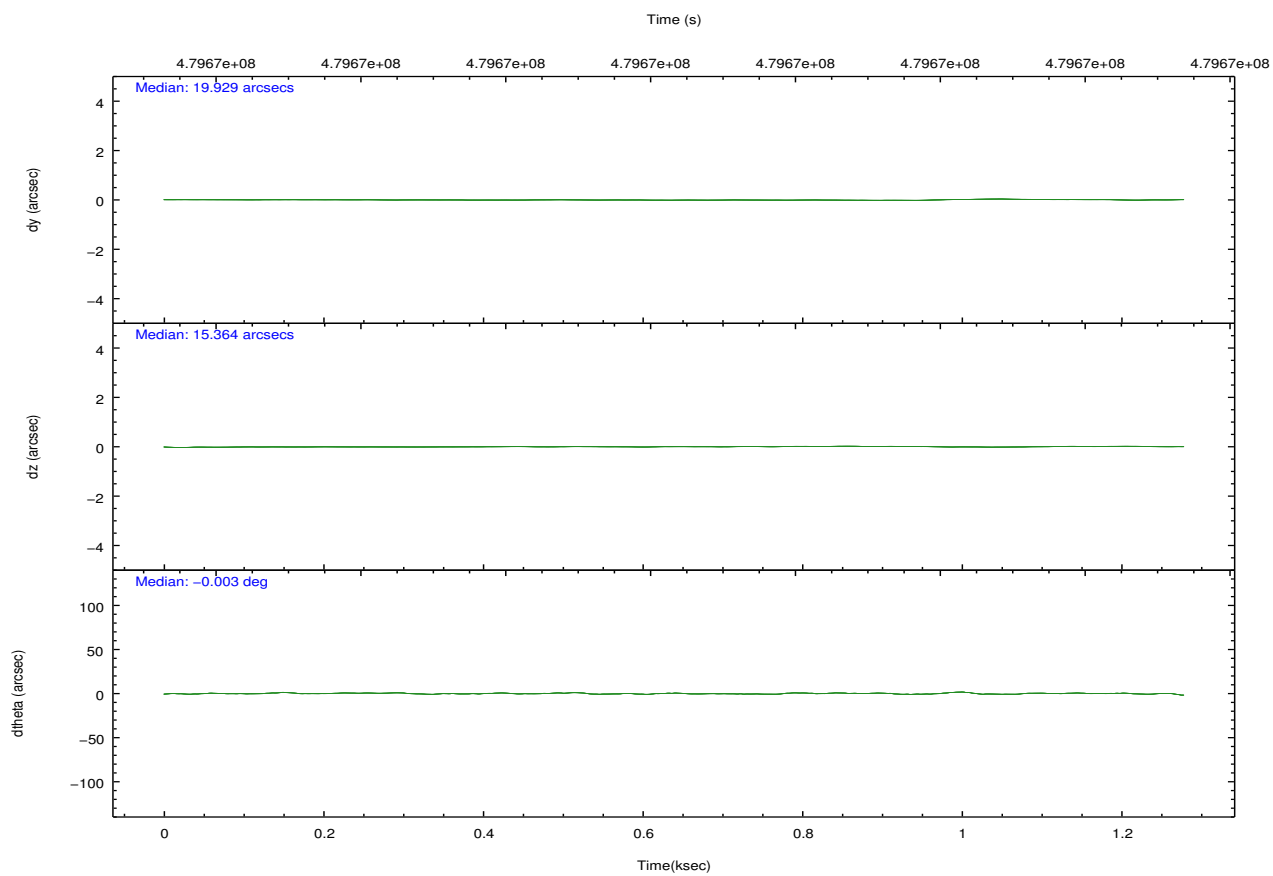
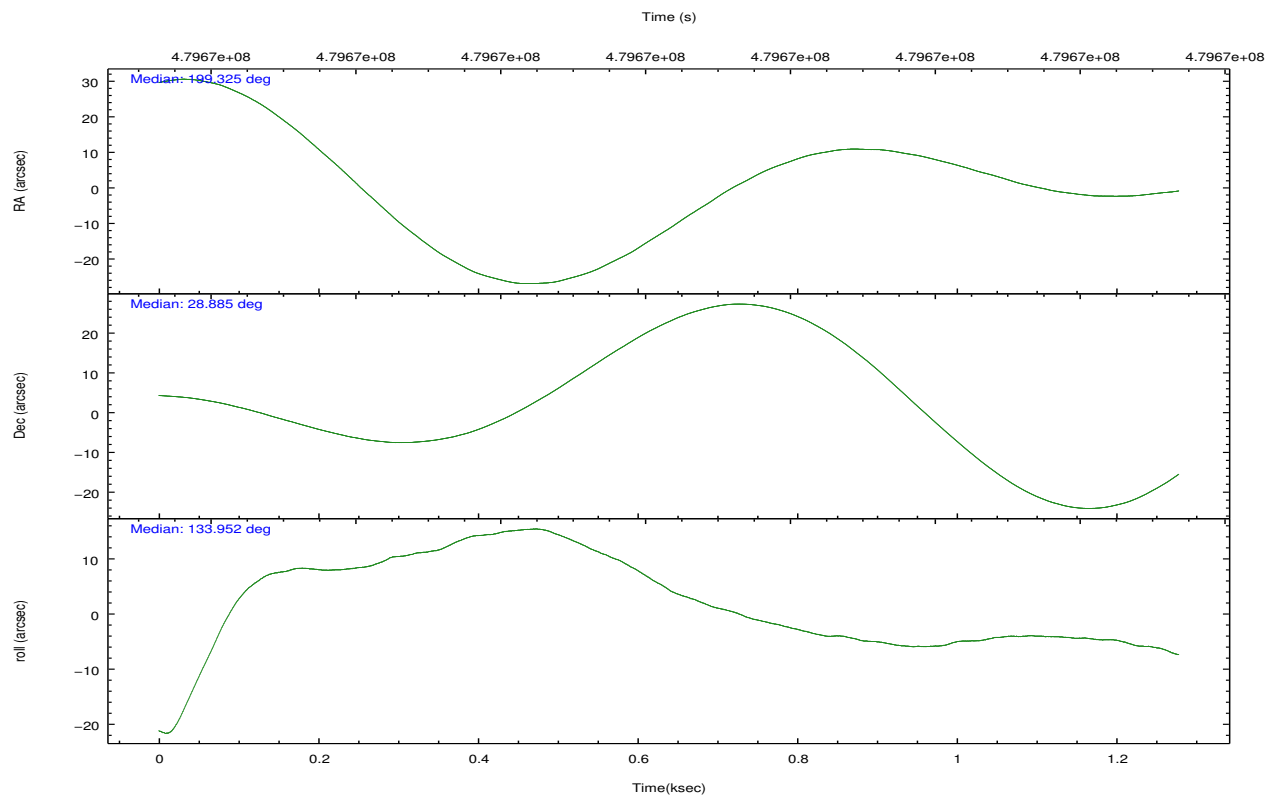
2.2 Compared Parameters

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	199.356601	199.3249848949297
[deg] Pointing Dec	28.879203	28.88493339080729
[deg] Pointing Roll	133.867033	133.9496849216316
[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)	479673169.184000	479672794.00577
Observation start date	2013-03-14T18:31:42	2013-03-14T18:26:34
[s] Observation end time (MET)	479674269.184000	479674403.25586
Observation end date	2013-03-14T18:50:02	2013-03-14T18:53:23

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

2.3 Aspect



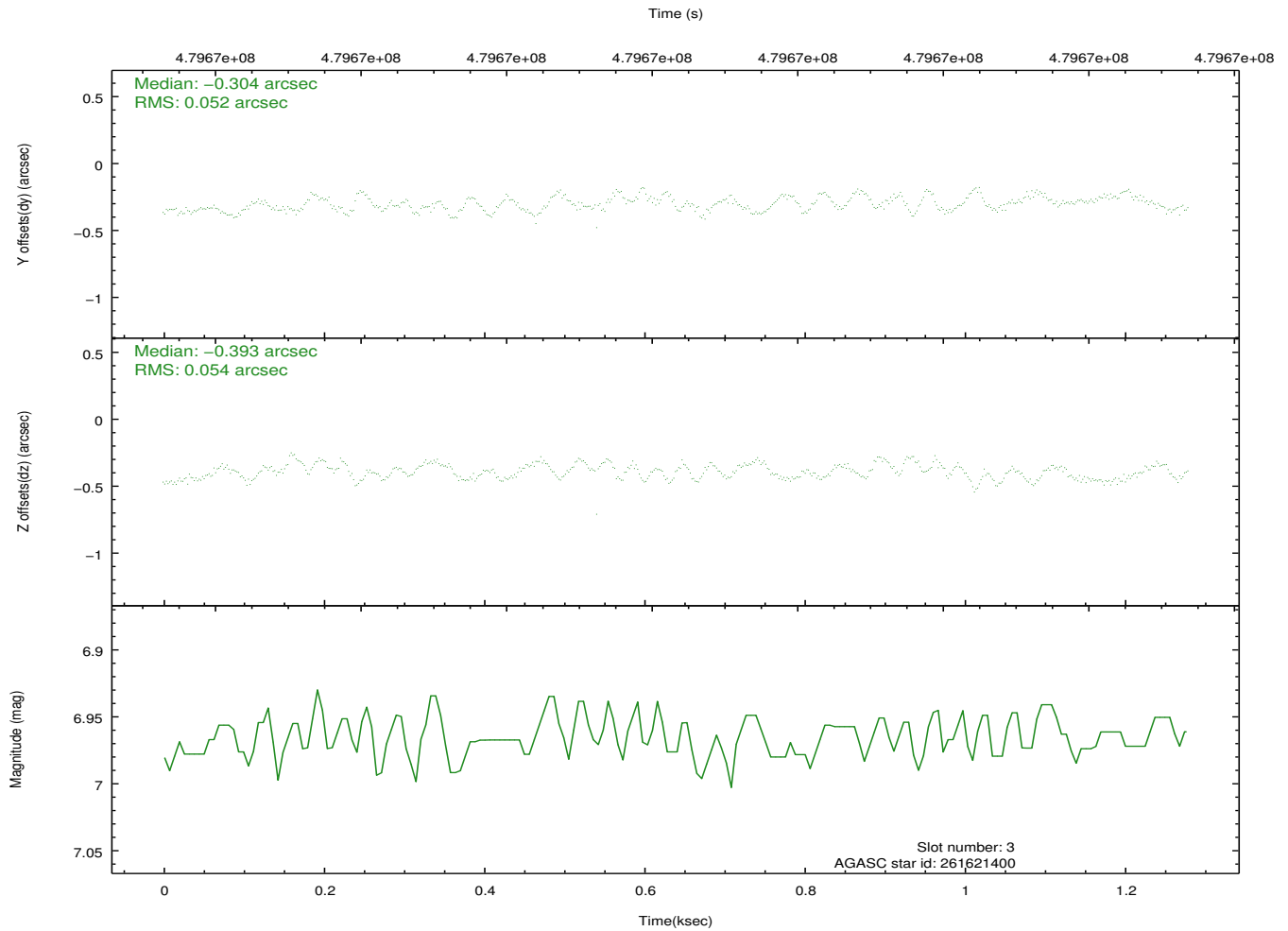
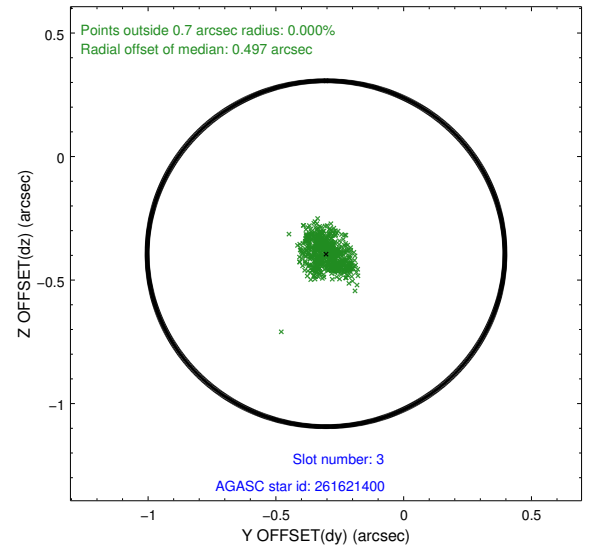
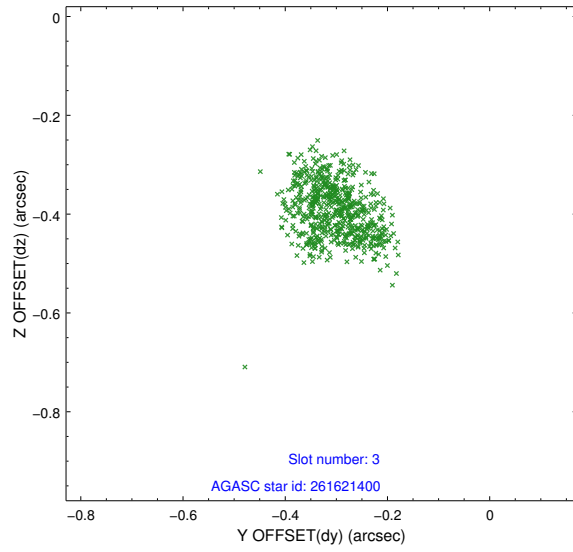


Slot Statistics

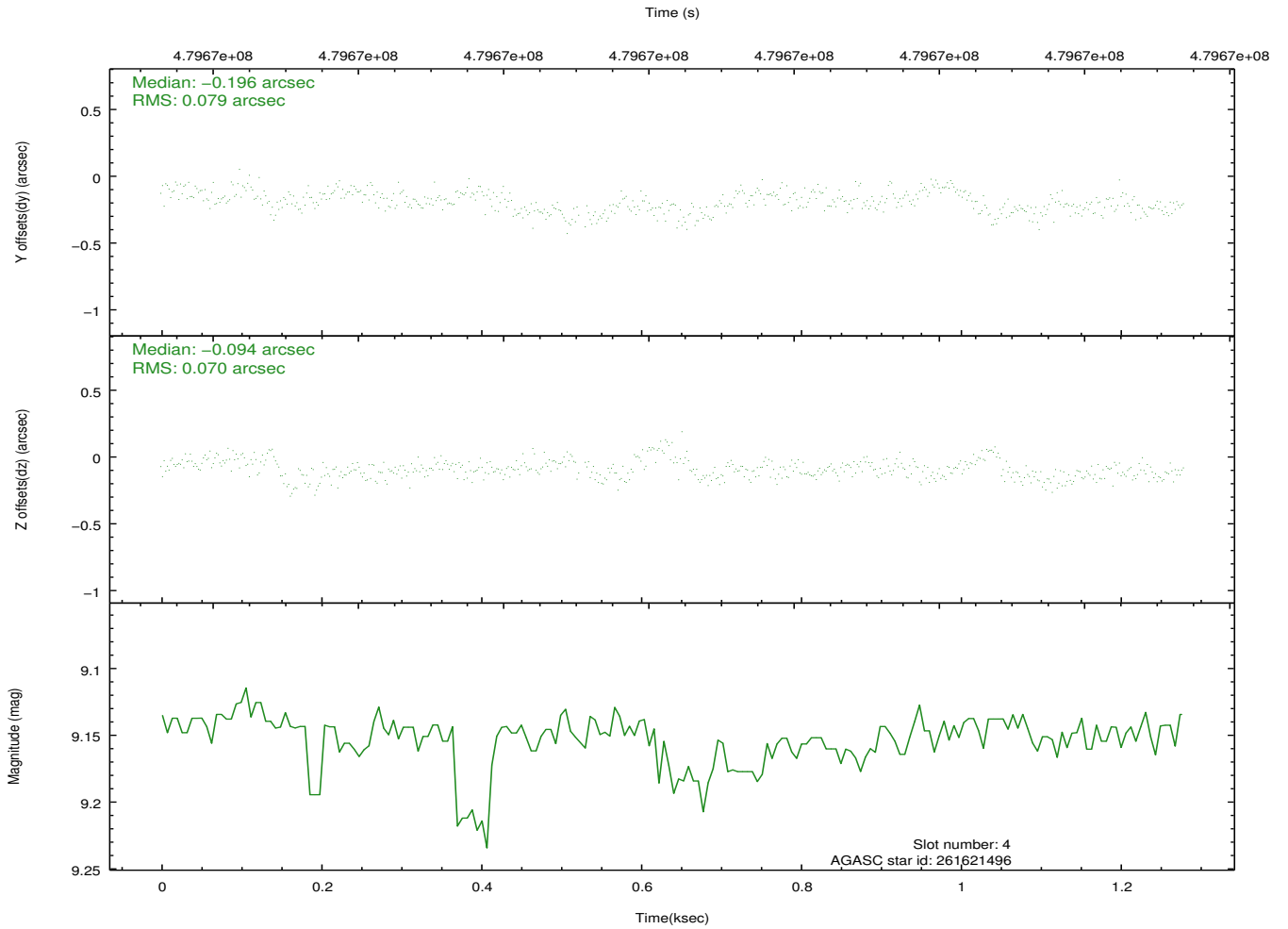
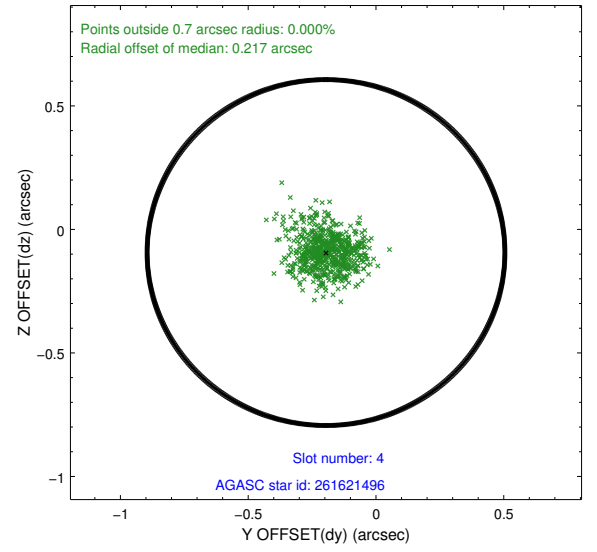
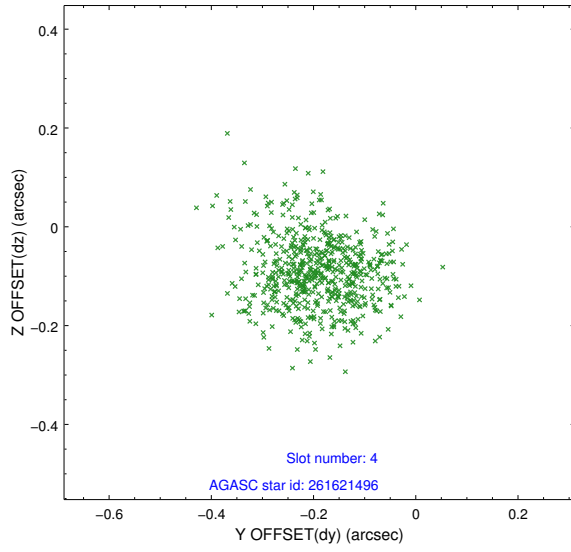
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-1	6.98	312	0.017	-0.203	0.006	0.011	0.000000	0.000000	-1174.53	-464.27
1	FID		HRC-S-2	6.96	312	0.265	-0.110	0.004	0.008	0.000000	0.000000	1221.61	-458.34
2	FID		HRC-S-3	7.00	312	0.106	0.011	0.006	0.011	0.000000	0.000000	-1173.23	564.00
3	GUIDE	used	261621400	6.97	625	-0.304	-0.393	0.082	0.118	198.901600	28.741982	644.11	1374.67
4	GUIDE	used	261621496	9.15	622	-0.196	-0.094	0.110	0.179	199.518209	28.144598	-2258.03	1463.85
5	GUIDE	used	261623624	9.10	622	0.542	0.248	0.119	0.180	199.611555	28.454113	-1662.15	479.85
6	GUIDE	used	261624456	7.32	625	-0.033	0.059	0.076	0.128	199.758056	28.567828	-1684.30	-140.27
7	GUIDE	used	261629720	8.11	624	-0.026	0.181	0.073	0.125	199.236176	29.044452	691.81	-140.23

2.4 Star Slots

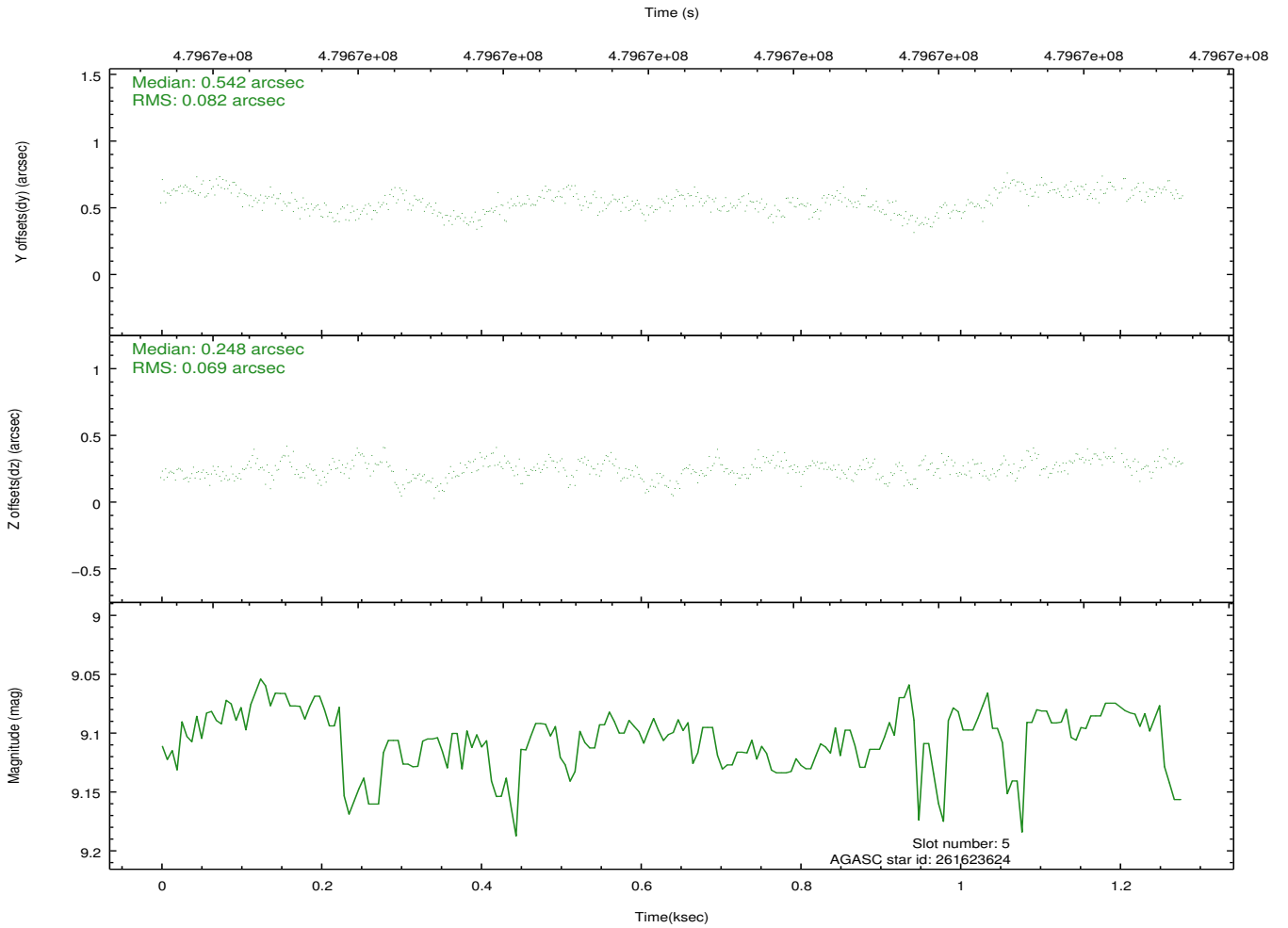
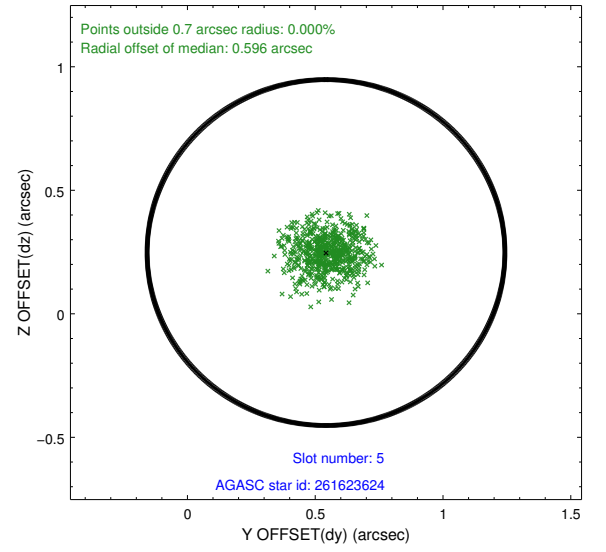
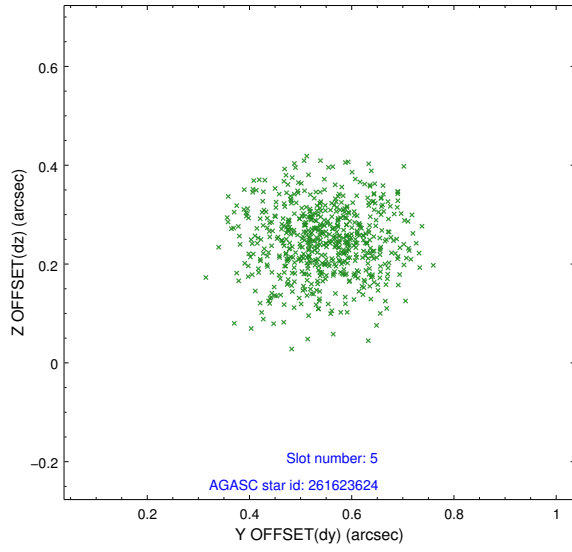
2.4.1 Slot 3



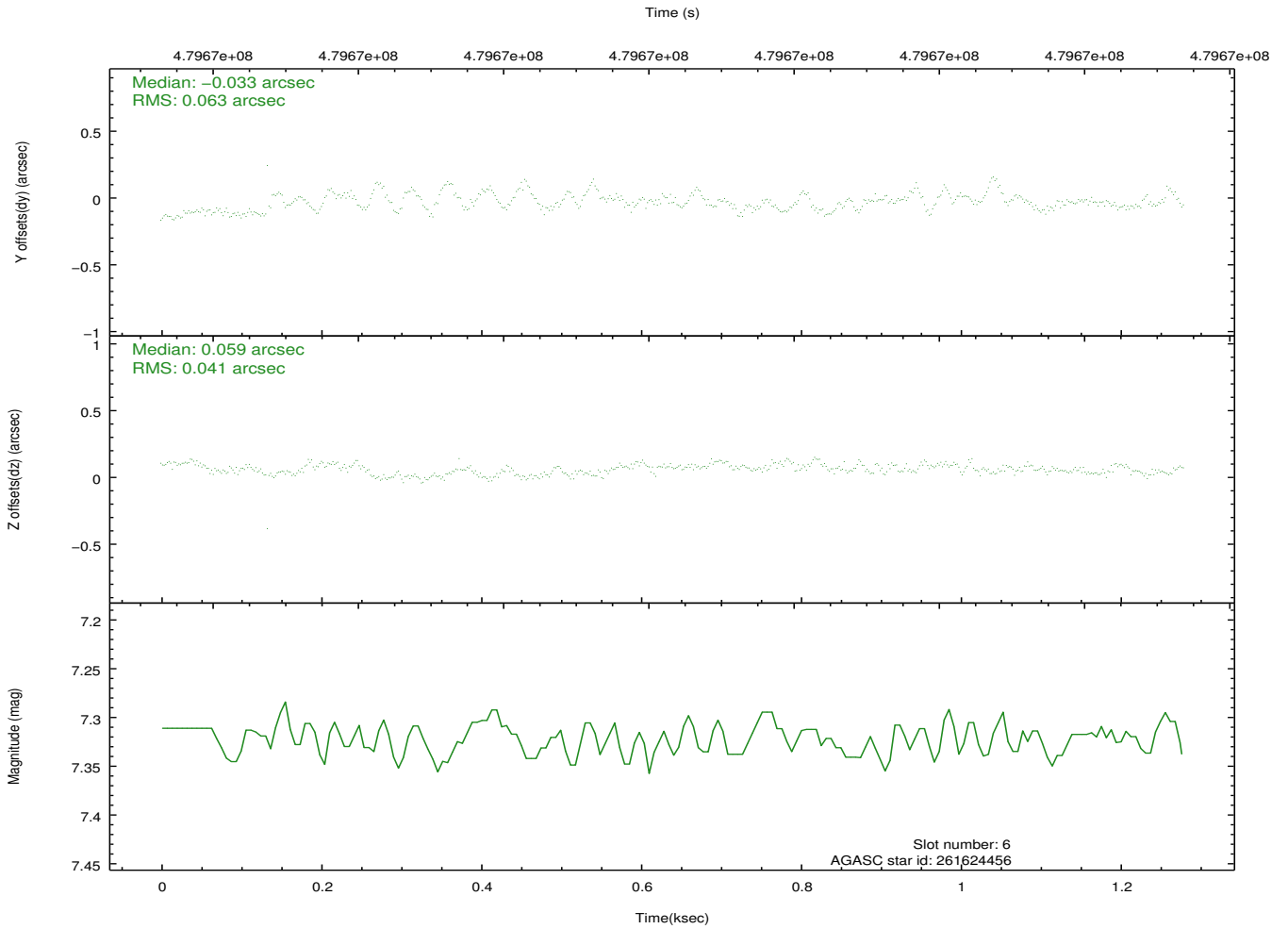
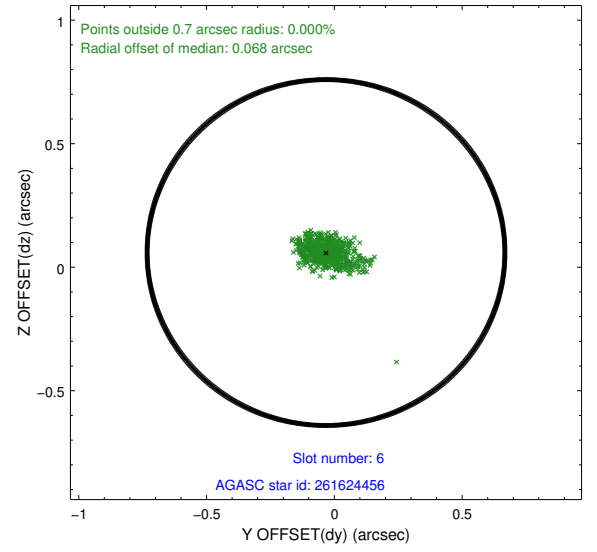
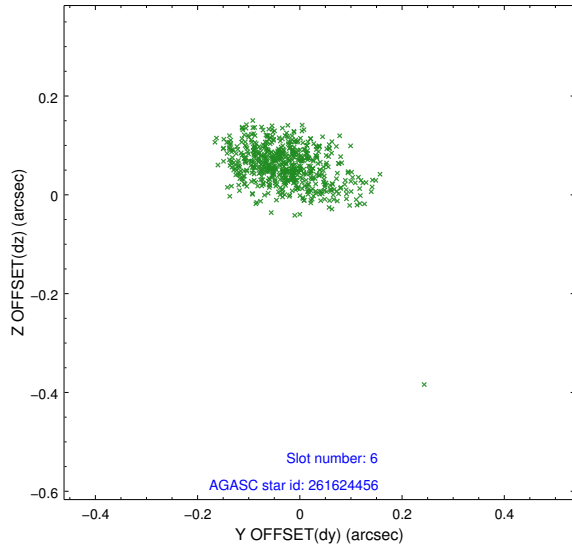
2.4.2 Slot 4



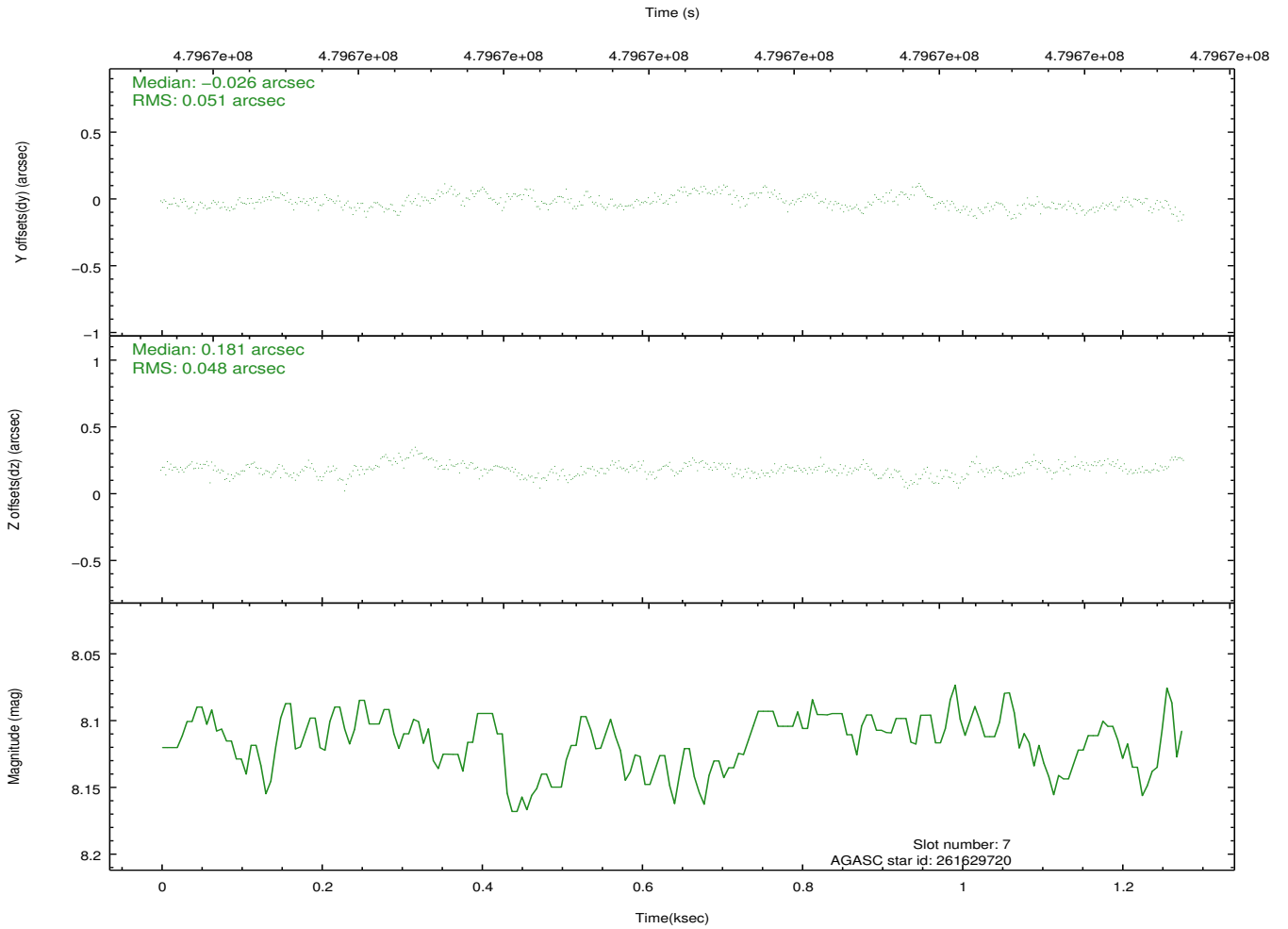
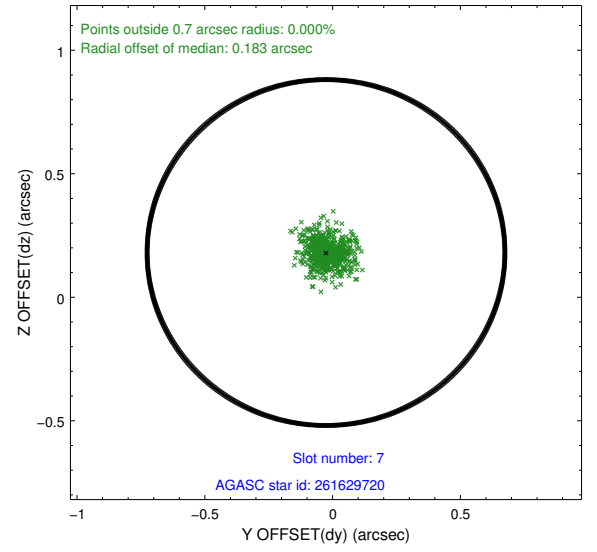
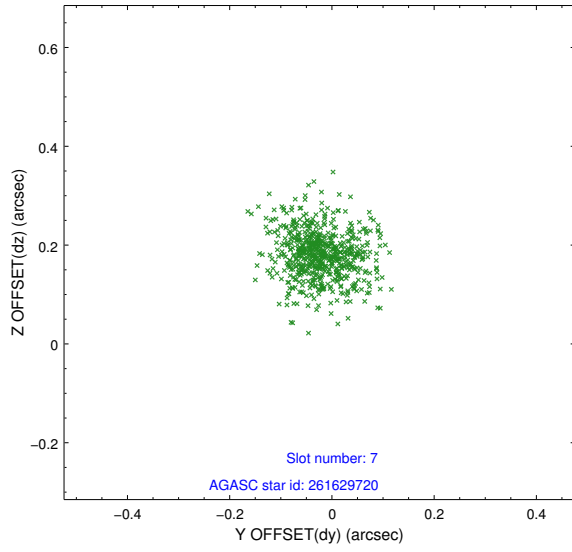
2.4.3 Slot 5



2.4.4 Slot 6

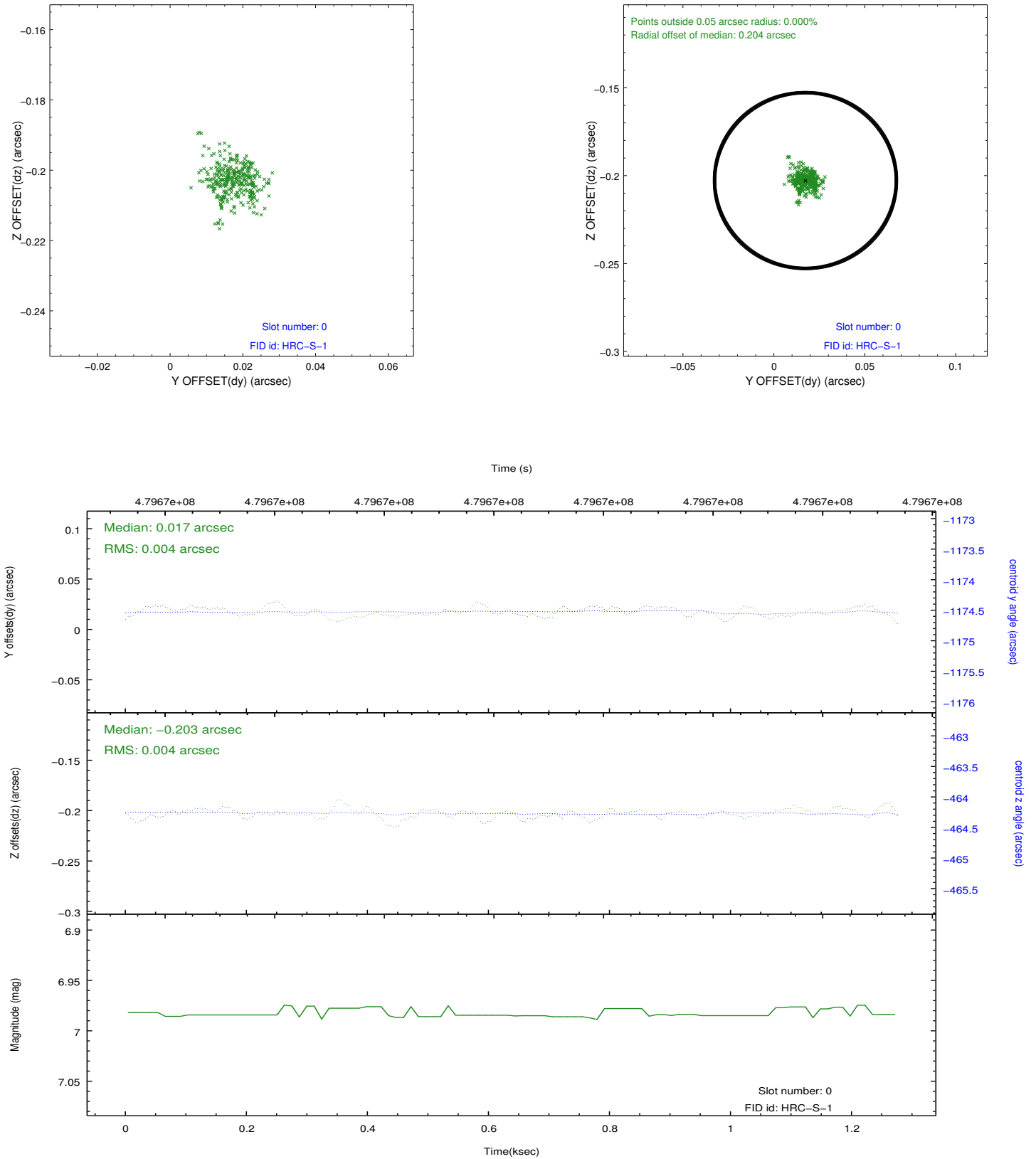


2.4.5 Slot 7

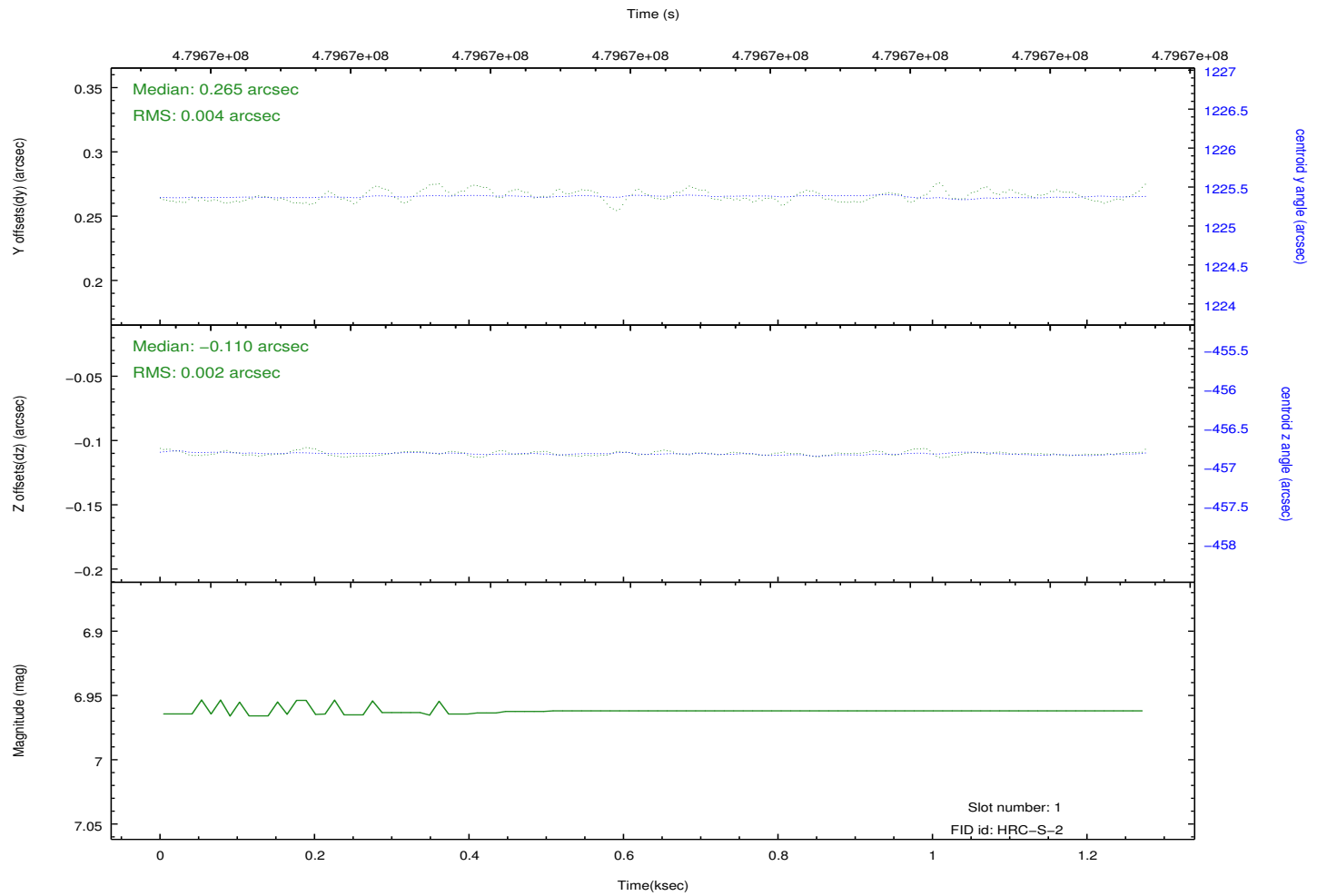
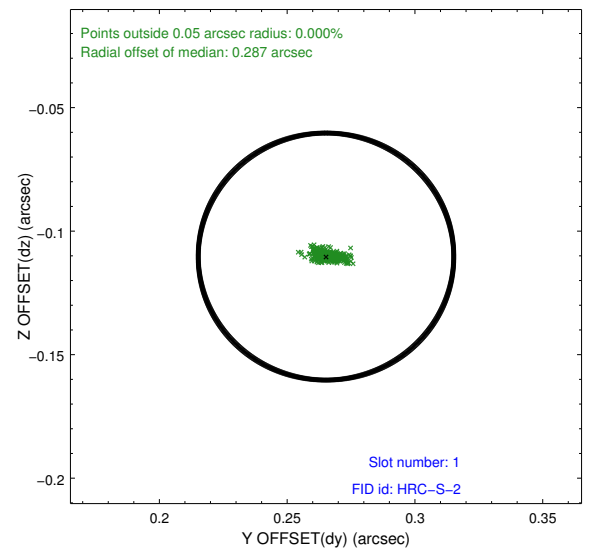
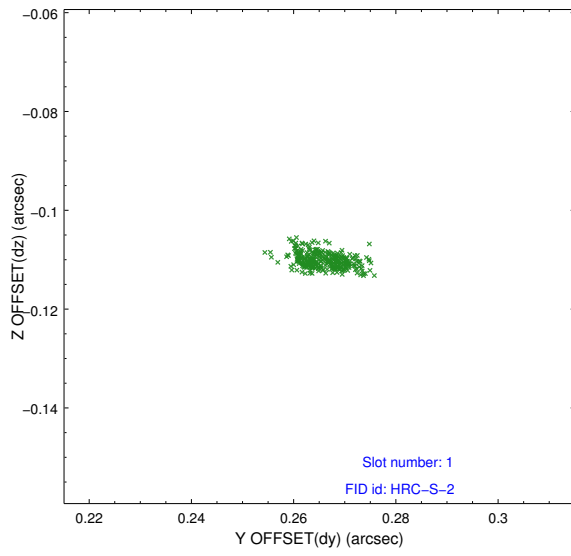


2.5 FID Slots

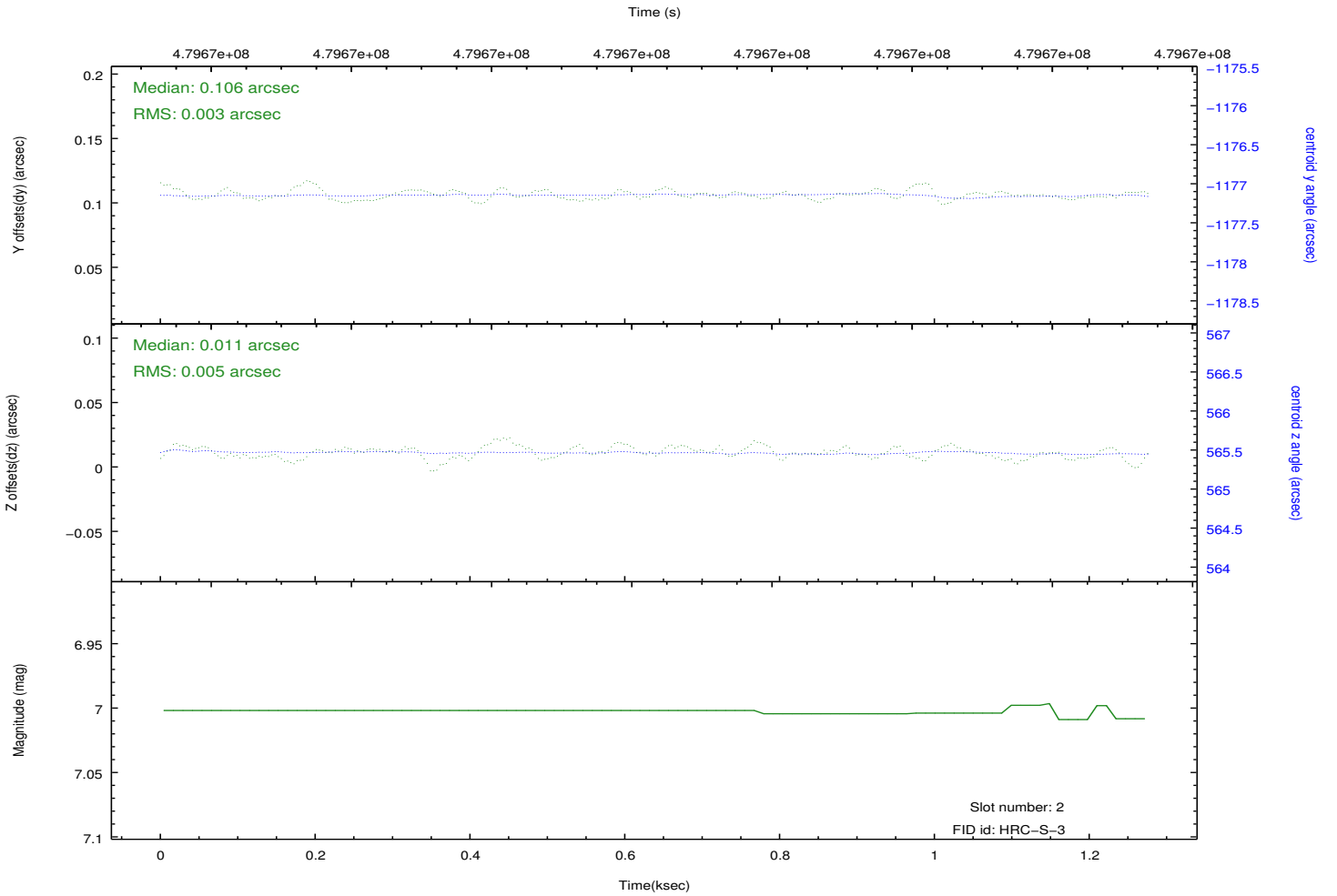
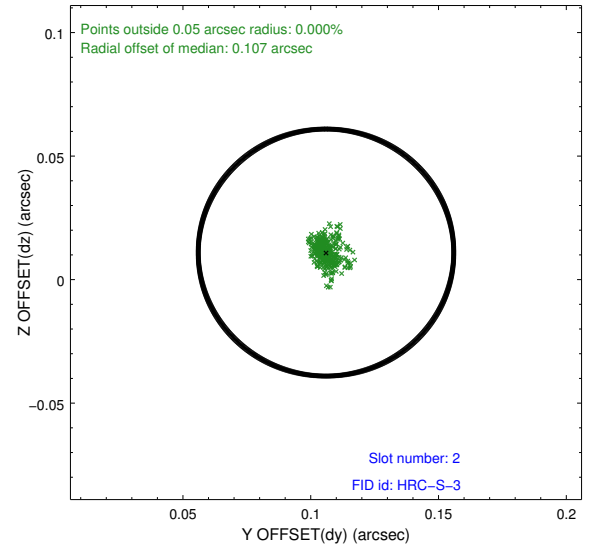
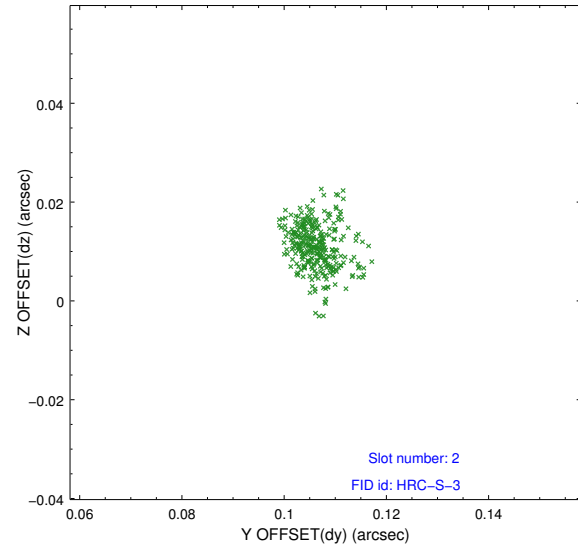
2.5.1 Slot 0



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)	2014.12.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.2781750690937

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.