

V&V Reference Report

L2 ASCDS Version : 10

Observation 15435 - L2 Version 2
Chandra X-Ray Center

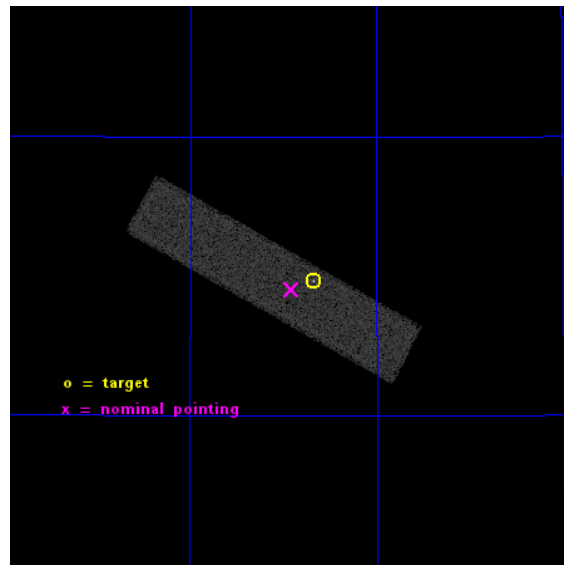
L2 Processing Date : Dec 6 2014

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1 Front

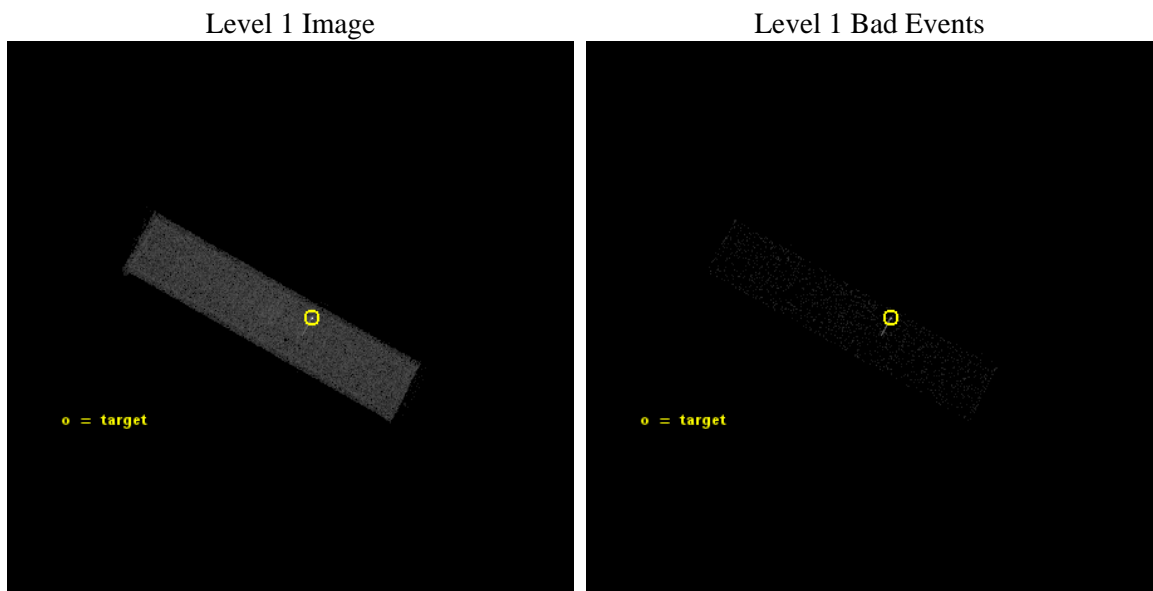
seq_num	291114	Sequence number
obs_id	15435	Observation id
title	AO-14 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.22815802883	Nominal RA [deg]
dec_nom	45.726918939621	Nominal Dec [deg]
roll_nom	208.60285453512	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1159.5313133001	[s]
livetime	1152.9025627819	Ontime multiplied by DTCOR
l2events	46858	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	1159.5313133001	[s]
caldsver	4.6.4	 	l1events	65469	Number of level 1 events
date	2014-12-06T15:47:58	Date and time of file creation			
revision	2	Processing version of data			

2.1.3 Events

Level 1 Events

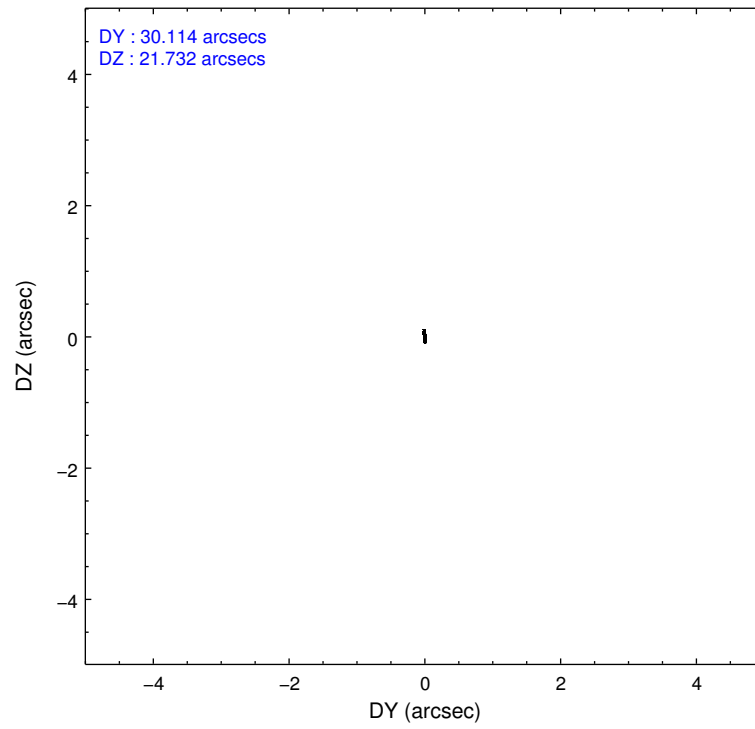
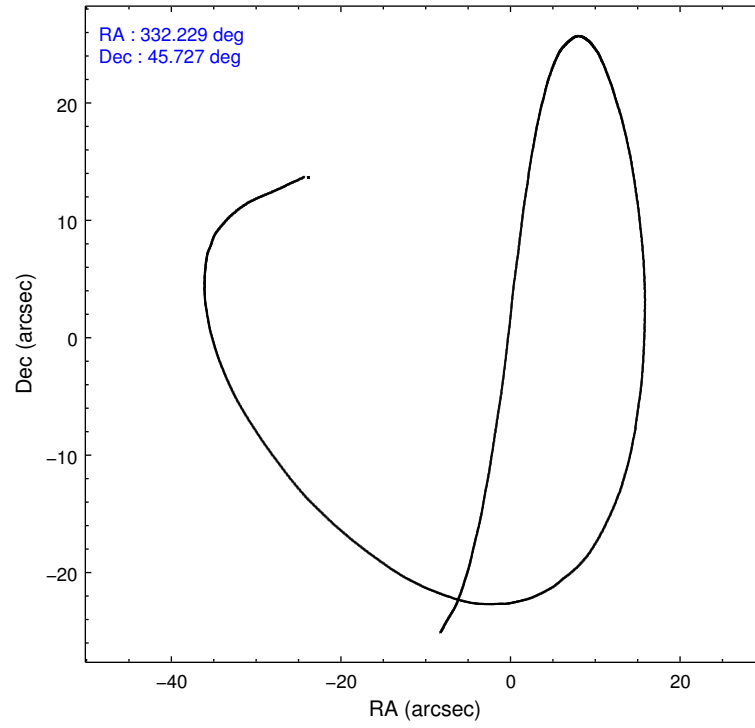
	segment 1	segment 2	segment 3
level 1 events	0	65469	0
rejected events	0	8363	0
rejected %	0%	12%	0%

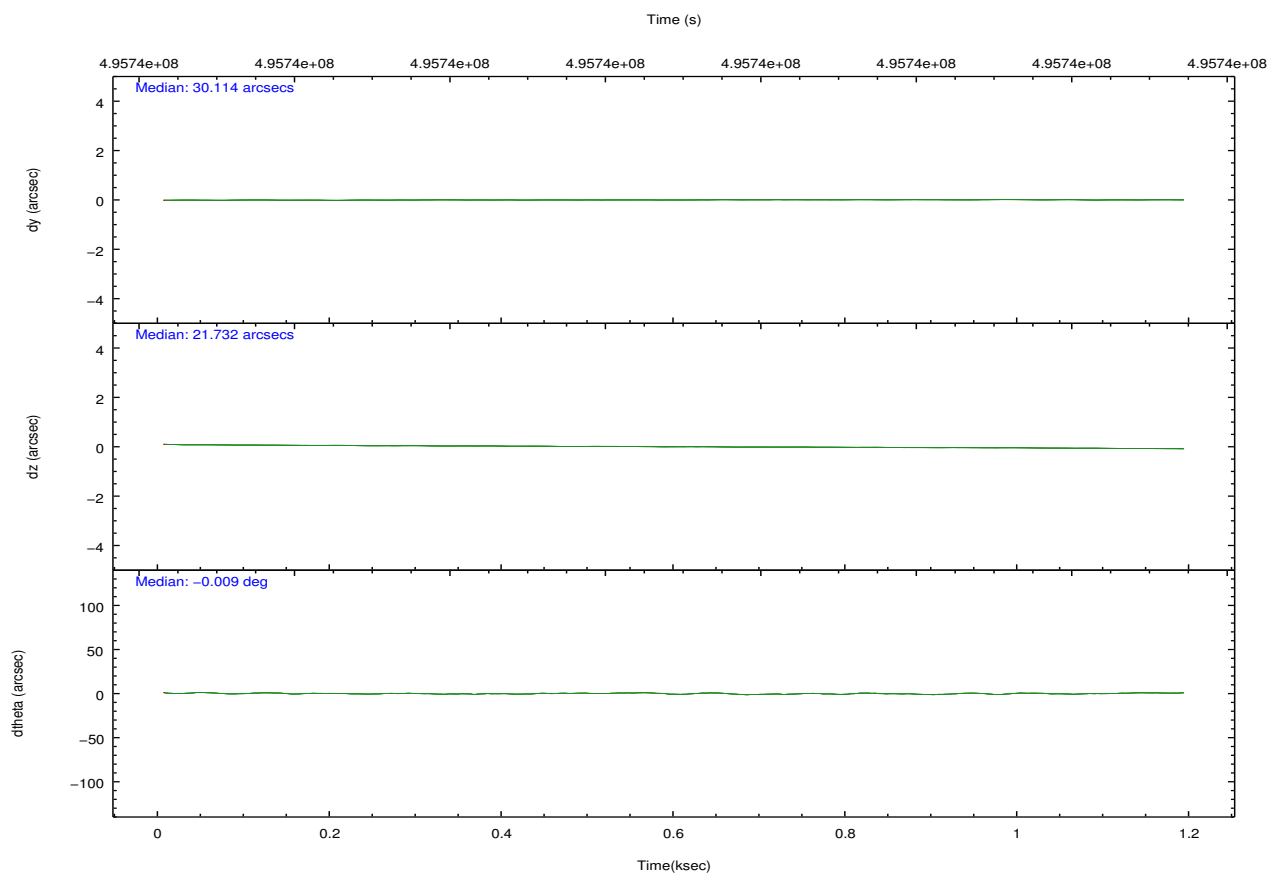
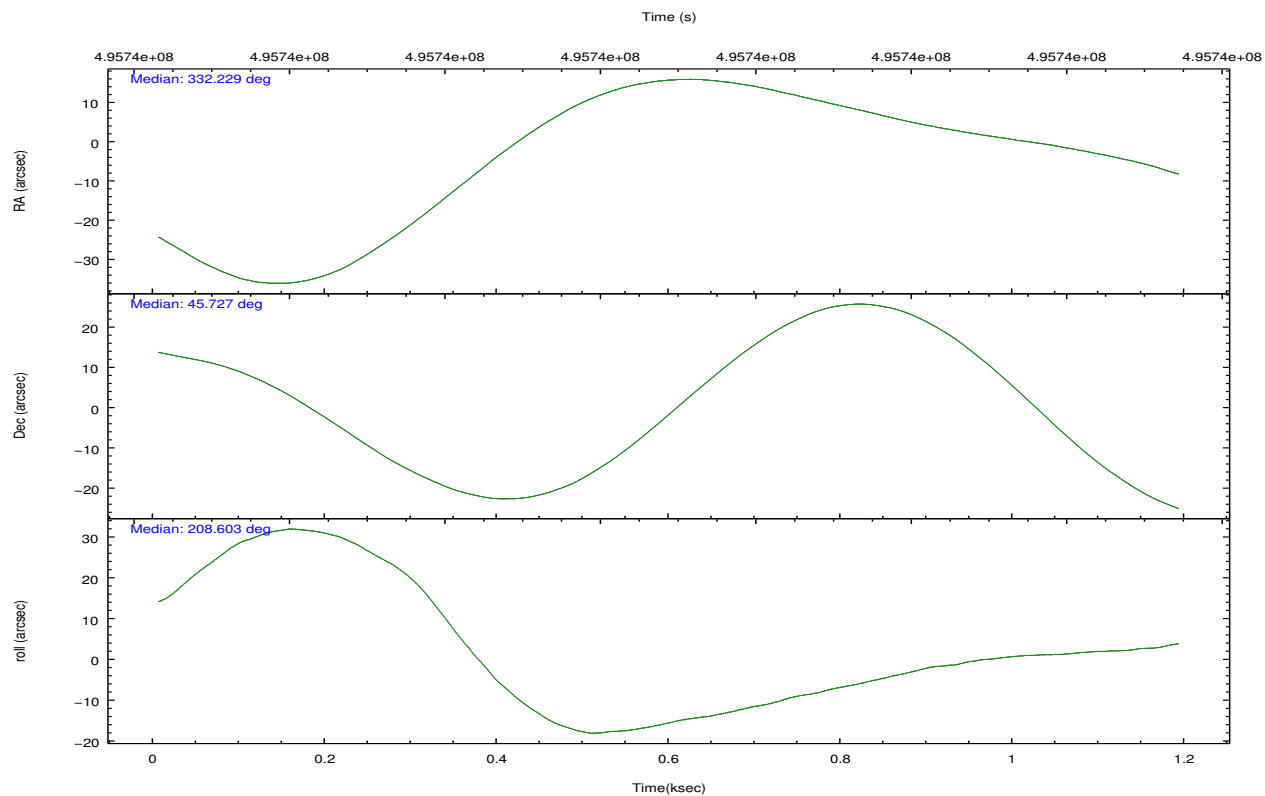
2.2 Compared Parameters

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	332.248393	332.2281580288275
[deg] Pointing Dec	45.751952	45.72691893962102
[deg] Pointing Roll	208.521014	208.6028545351186
[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)	495742690.184000	495742311.30372
Observation start date	2013-09-16T18:17:03	2013-09-16T18:11:51
[s] Observation end time (MET)	495743690.184000	495743825.2288
Observation end date	2013-09-16T18:33:43	2013-09-16T18:37:05

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

2.3 Aspect



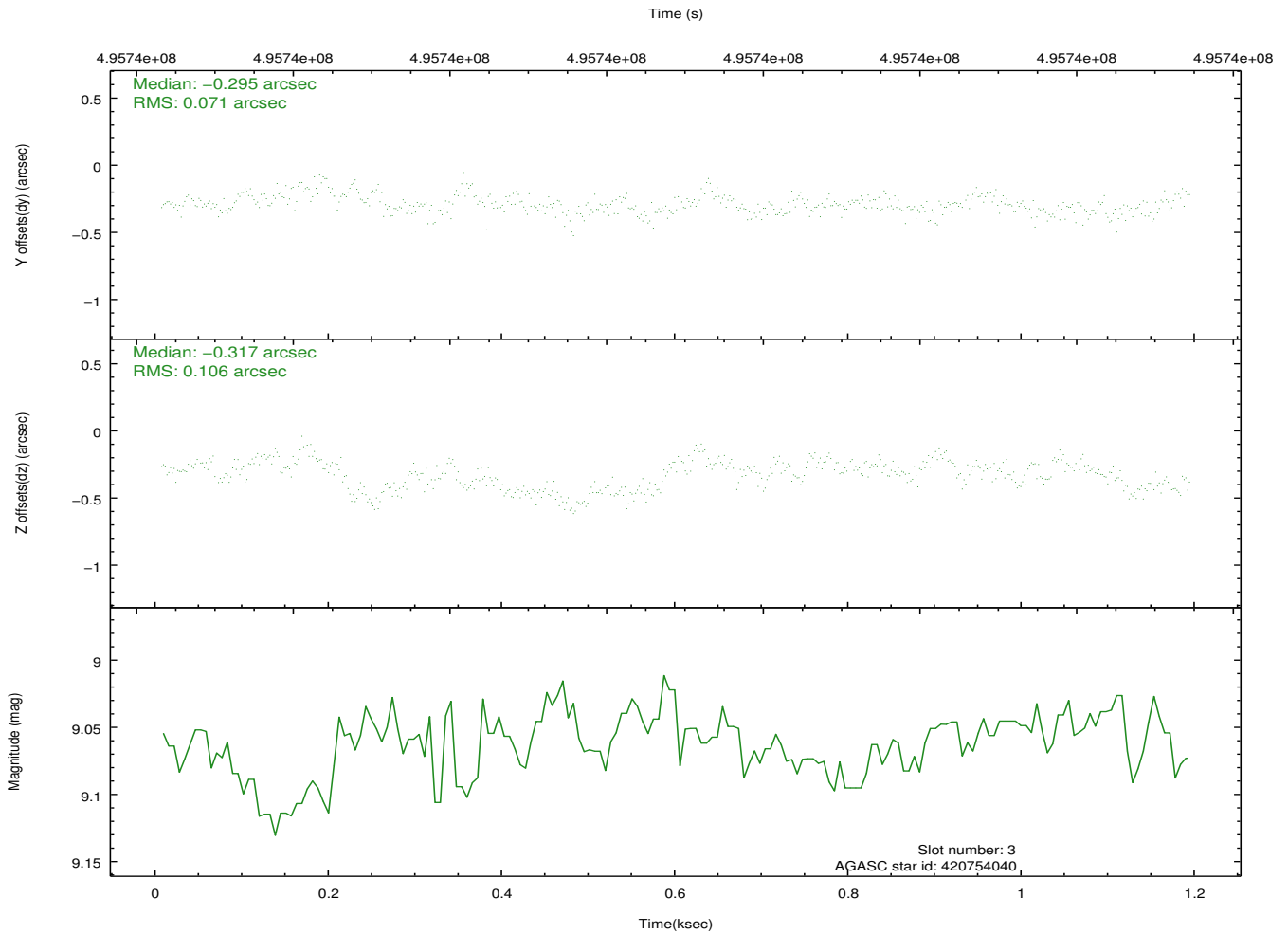
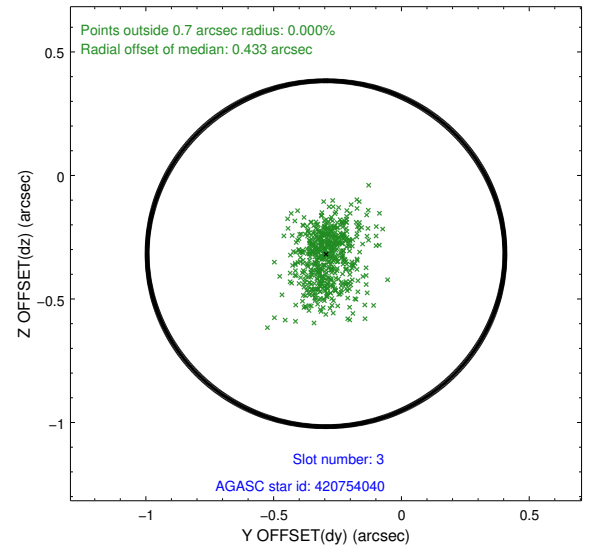
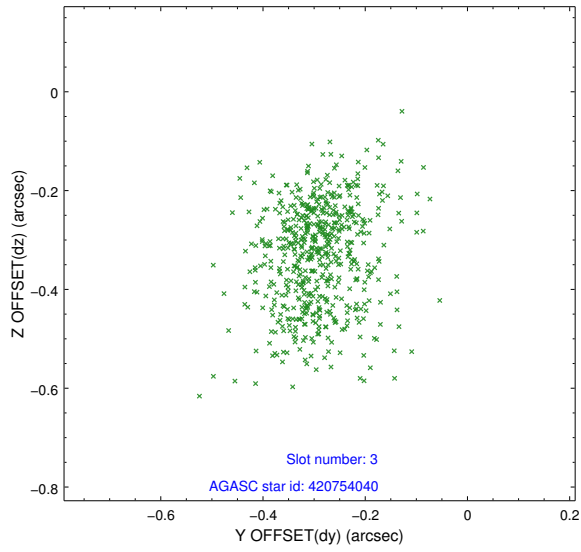


Slot Statistics

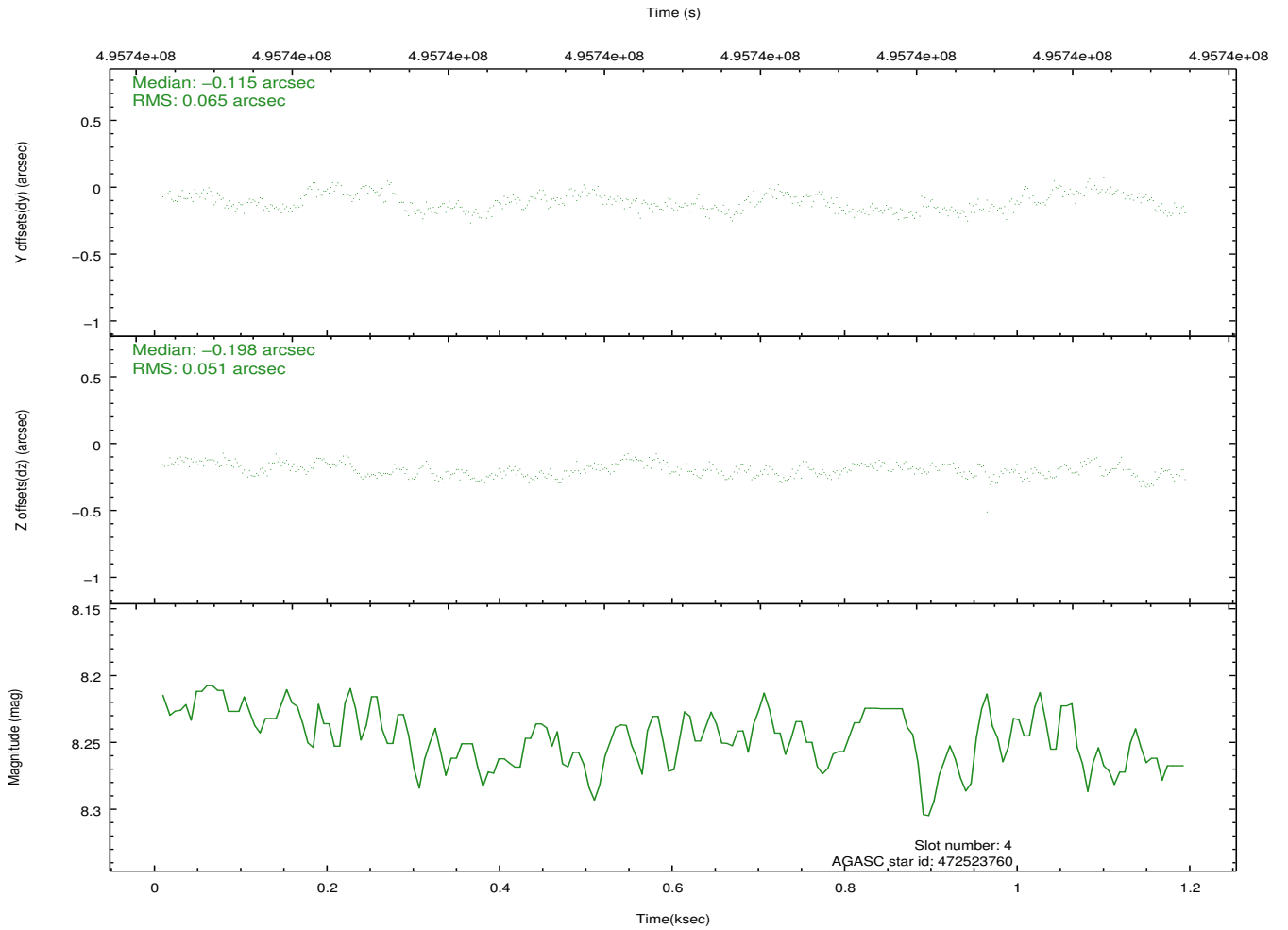
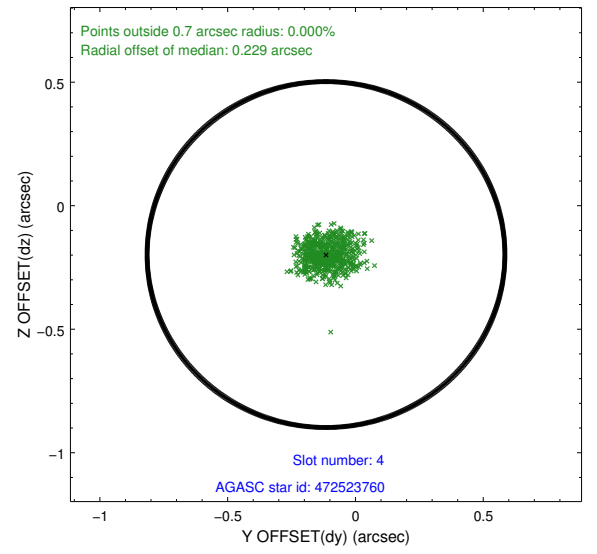
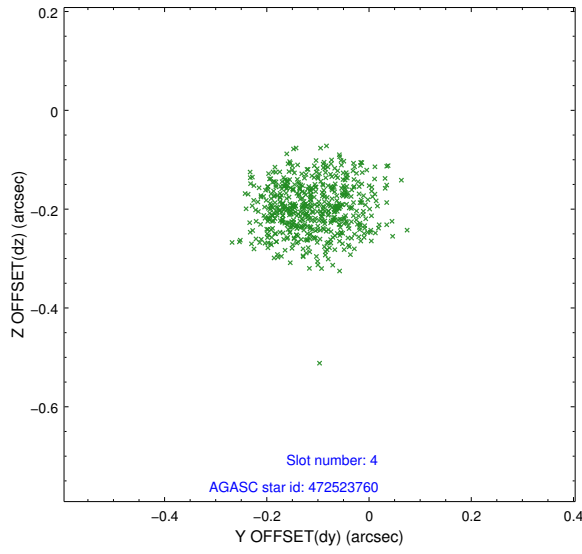
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-1	7.04	290	-0.044	-0.108	0.007	0.010	0.000000	0.000000	-1184.98	-470.89
1	FID		HRC-S-2	7.01	290	0.364	-0.126	0.005	0.011	0.000000	0.000000	1211.00	-464.95
2	FID		HRC-S-3	7.05	290	0.069	-0.068	0.007	0.011	0.000000	0.000000	-1183.51	557.06
3	GUIDE	used	420754040	9.06	580	-0.295	-0.317	0.134	0.227	331.917939	44.882543	2231.94	2347.53
4	GUIDE	used	472523760	8.25	579	-0.115	-0.198	0.089	0.132	331.645363	45.403260	1939.23	375.43
5	GUIDE	used	472665256	8.99	579	0.504	0.225	0.118	0.197	332.808125	46.195041	-1986.29	-737.41
6	GUIDE	used	472525528	6.66	580	-0.643	-0.076	0.086	0.141	331.551102	45.248694	2409.60	741.40
7	GUIDE	used	472663080	9.39	575	0.557	0.390	0.156	0.248	332.652741	46.473840	-2118.73	-1803.72

2.4 Star Slots

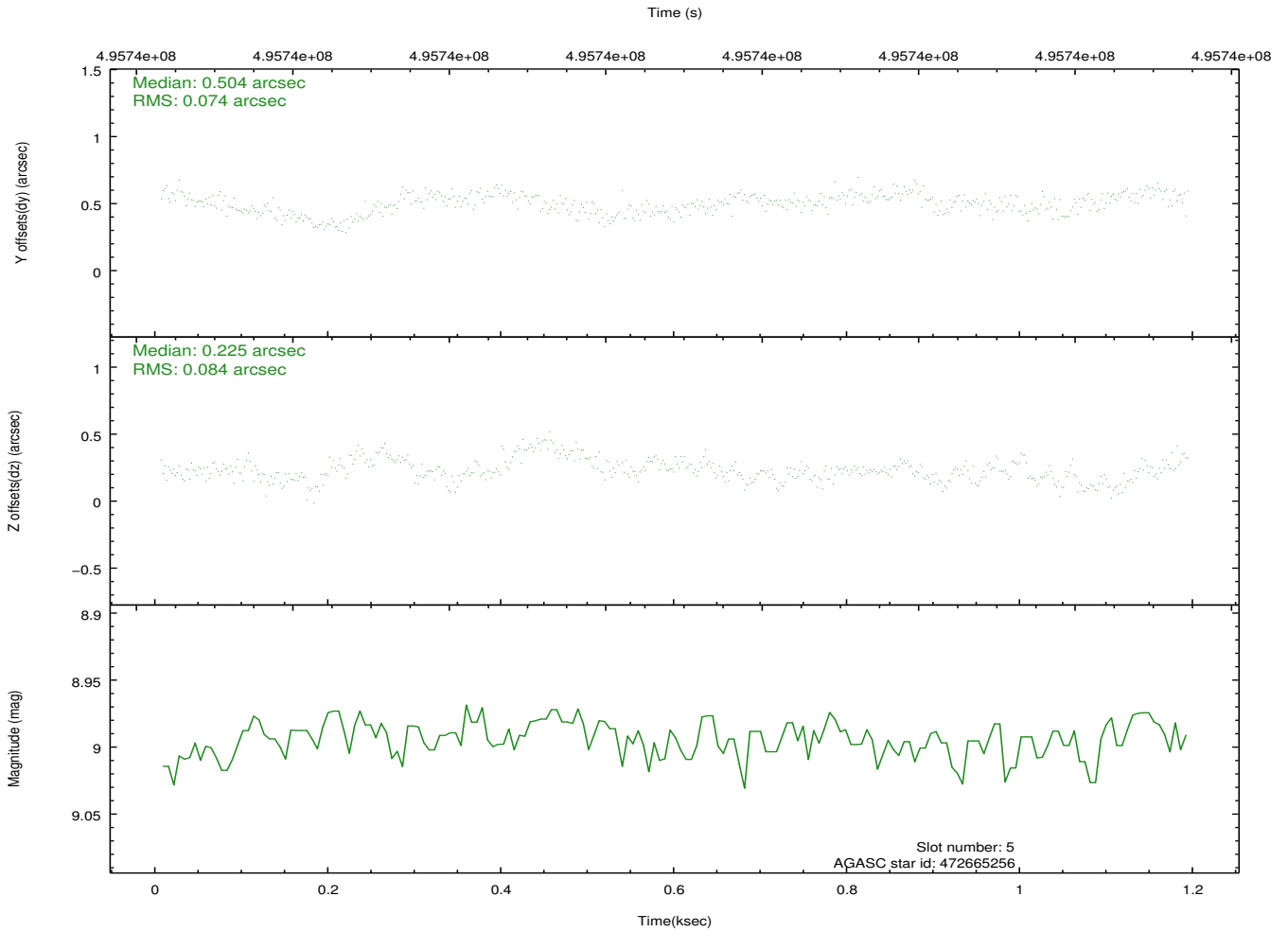
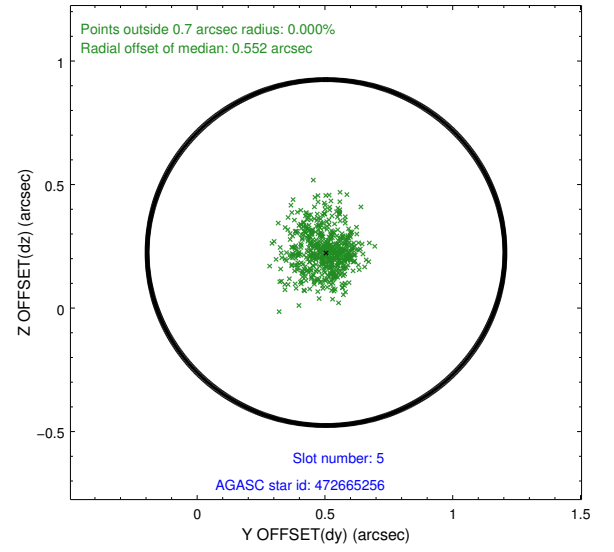
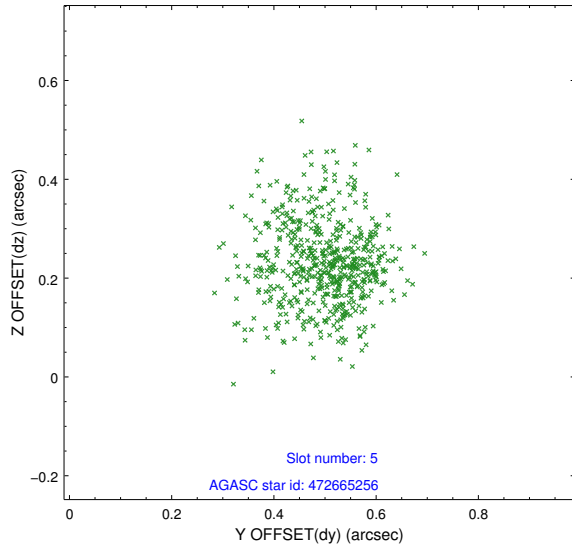
2.4.1 Slot 3



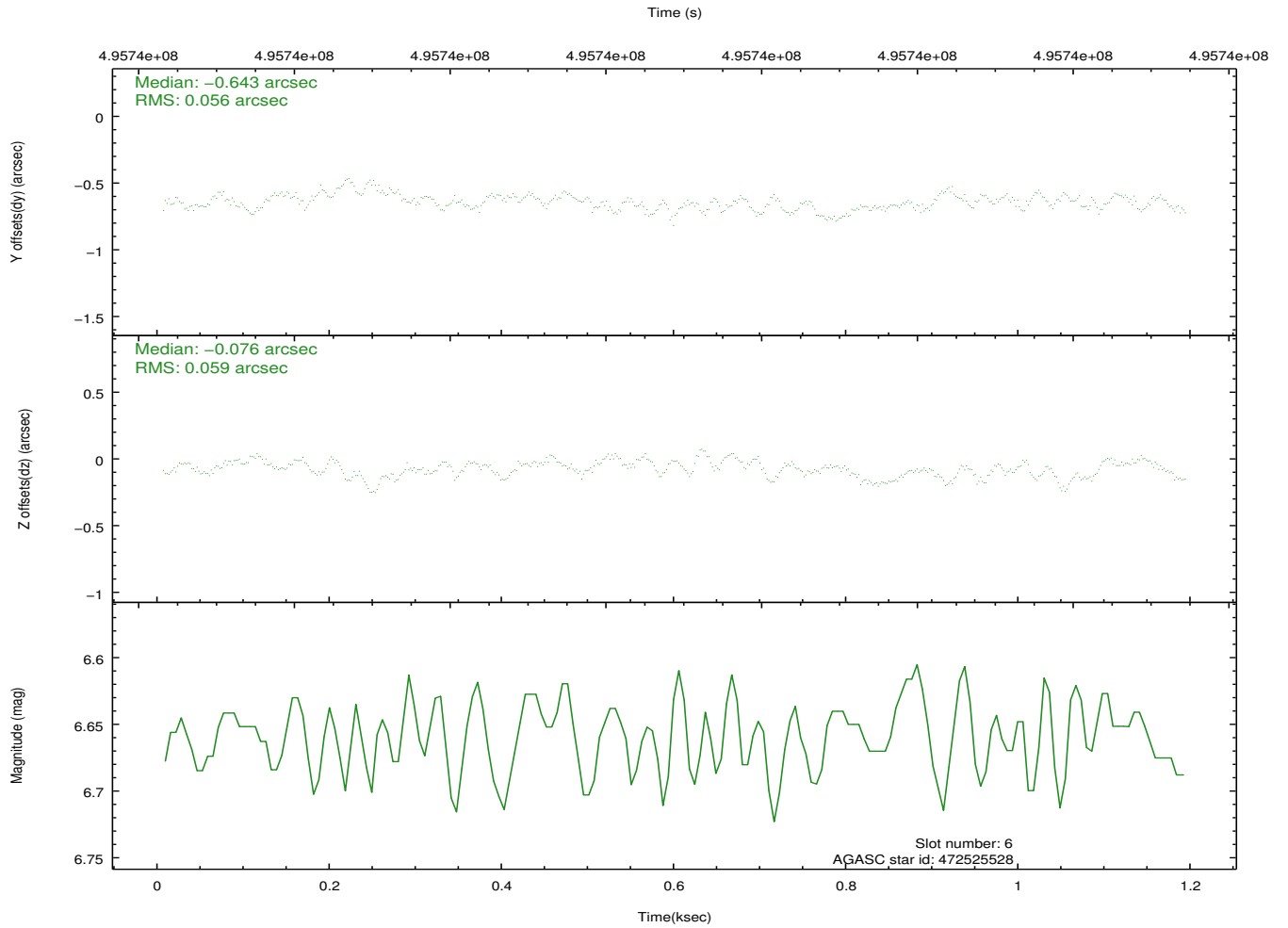
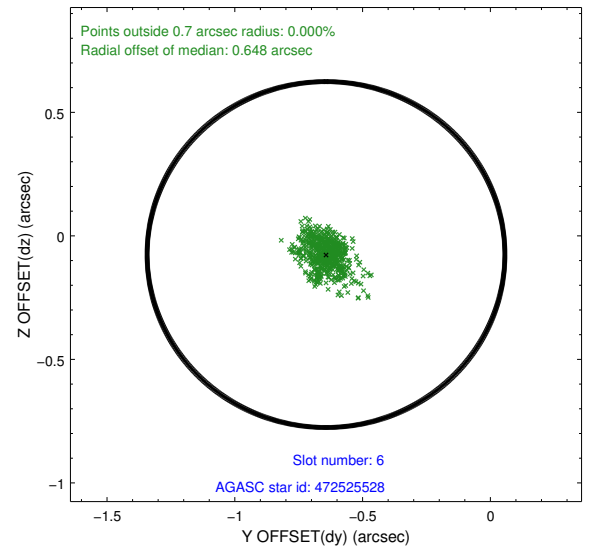
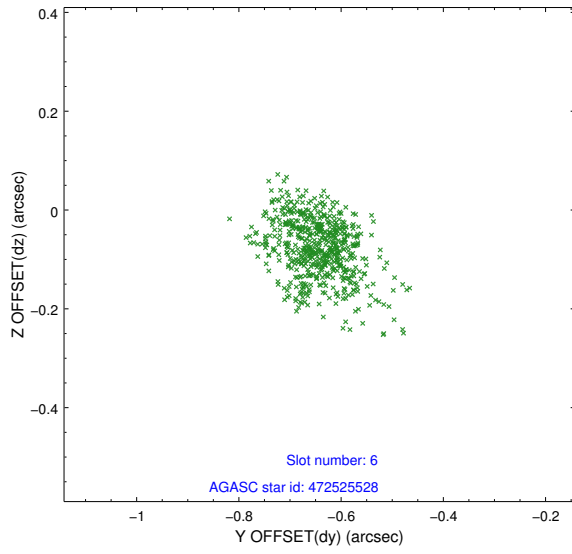
2.4.2 Slot 4



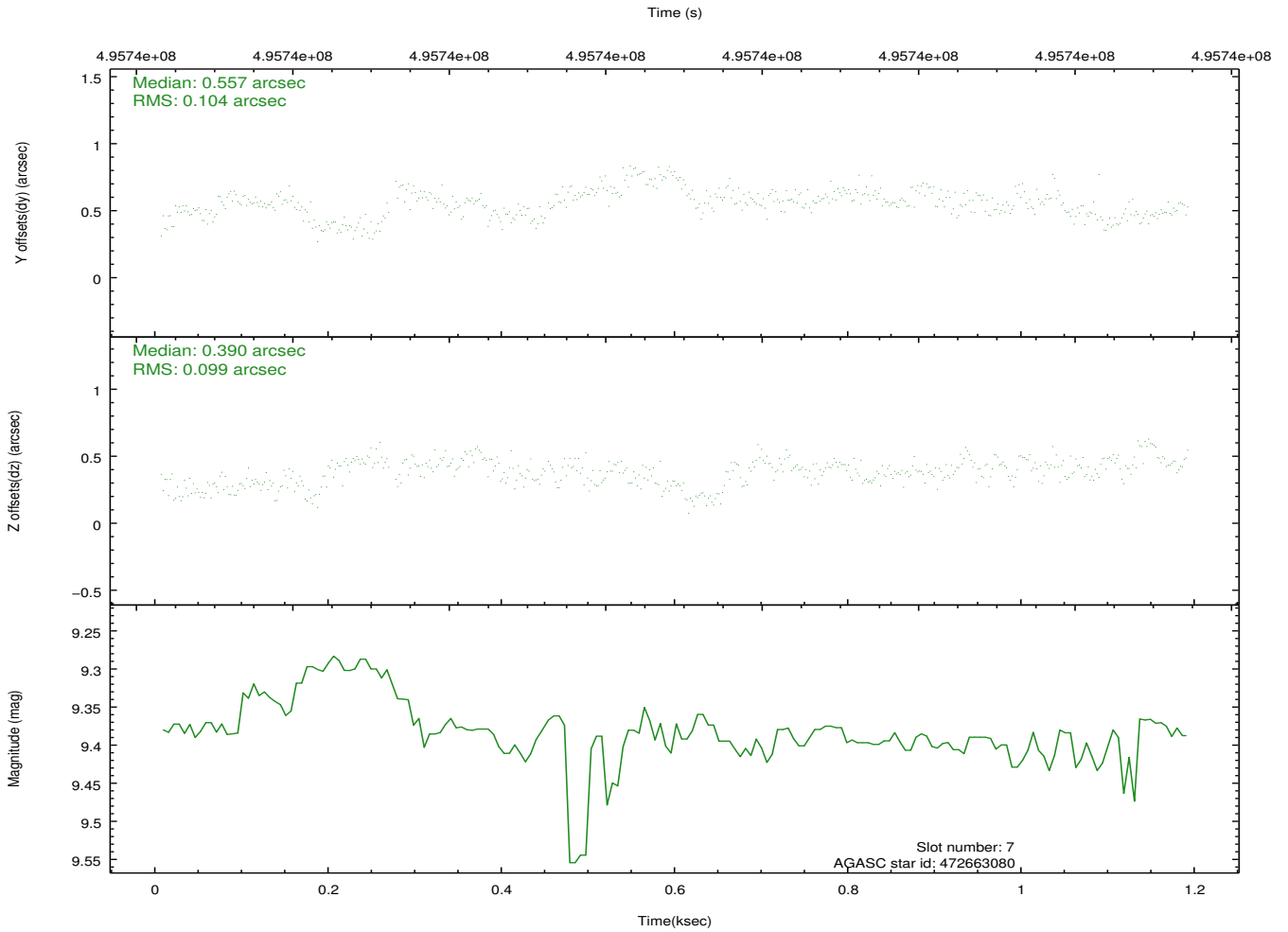
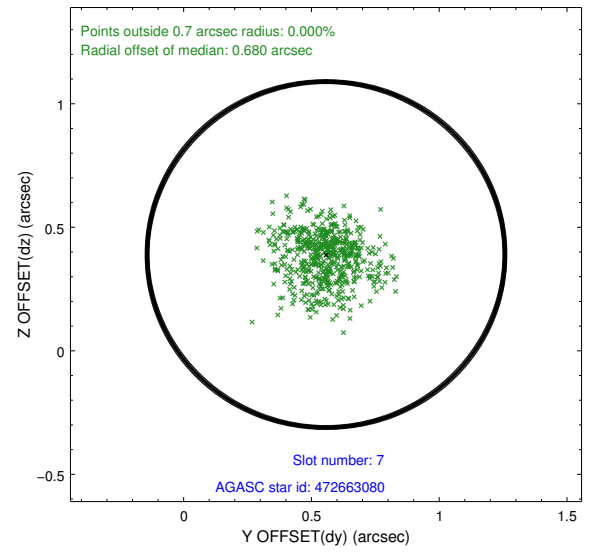
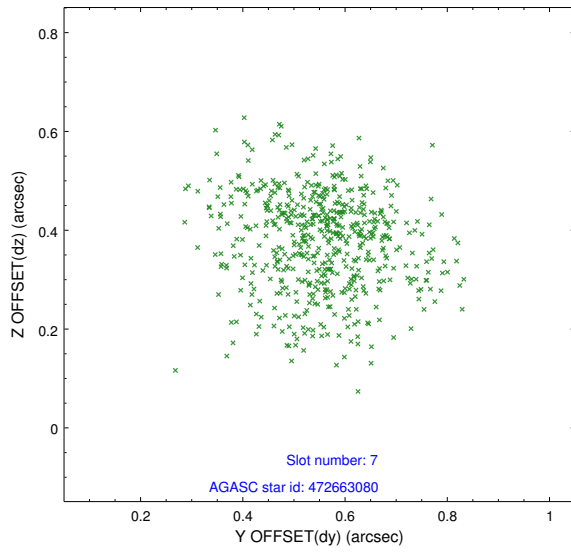
2.4.3 Slot 5



2.4.4 Slot 6

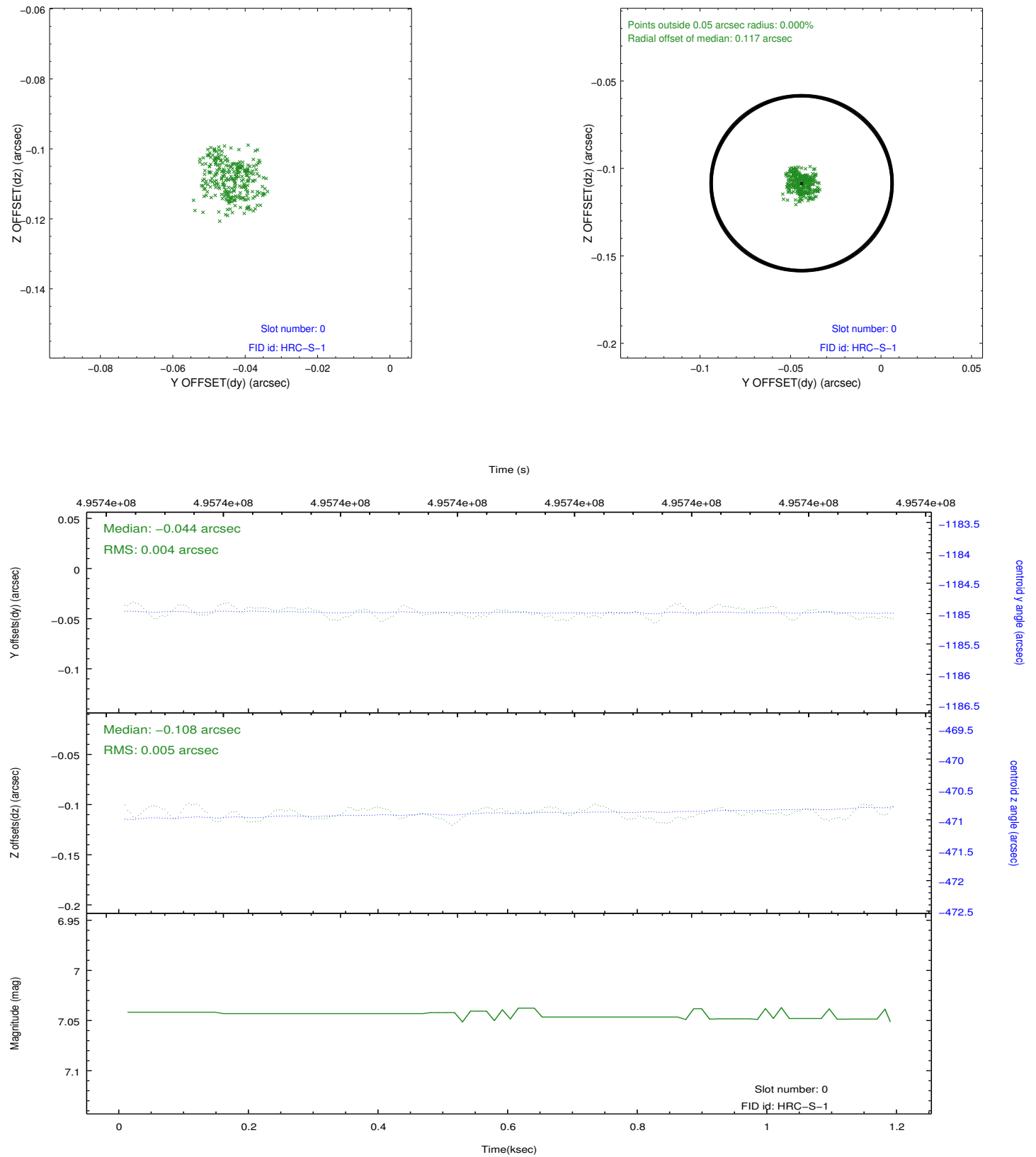


2.4.5 Slot 7

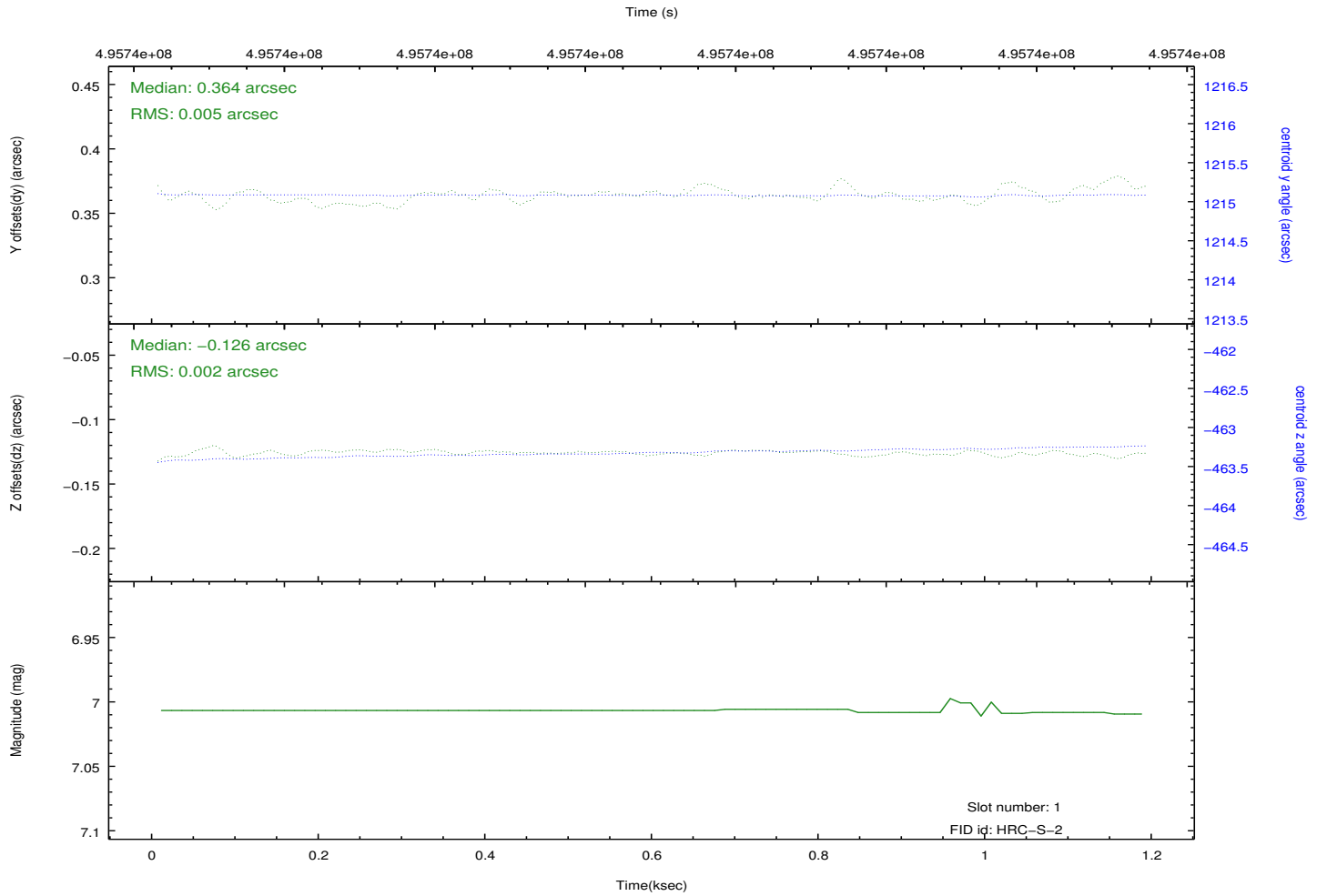
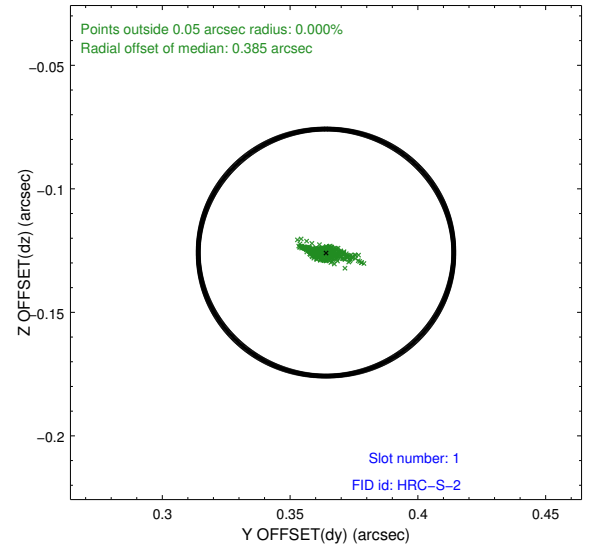
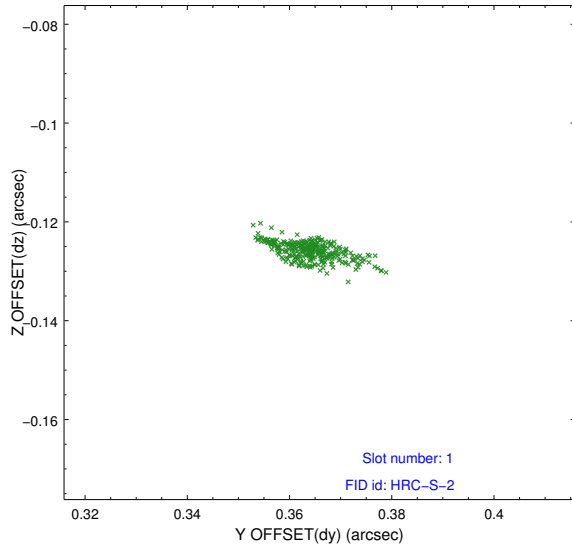


2.5 FID Slots

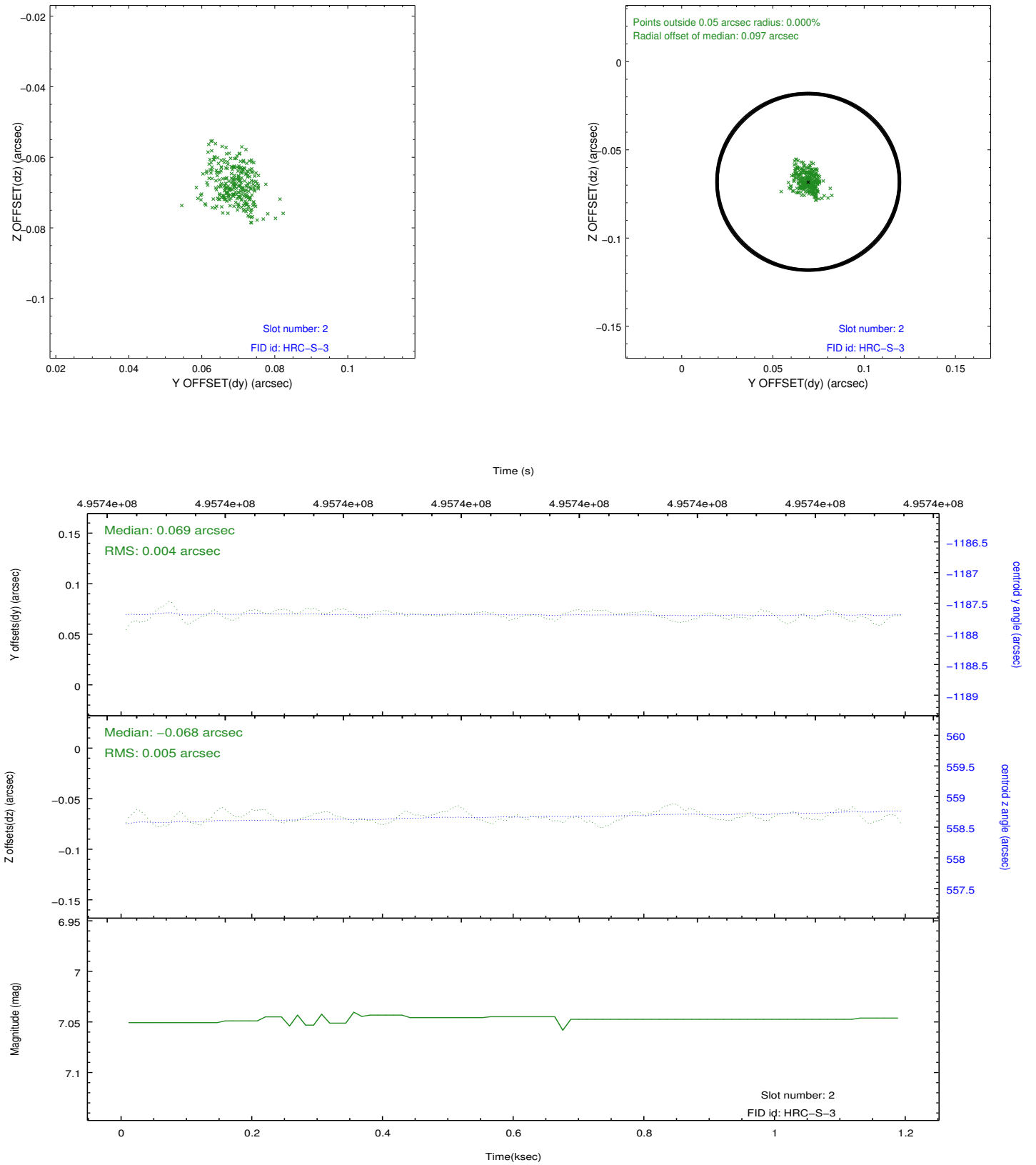
2.5.1 Slot 0



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	1.1595313133001

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.