

V&V Reference Report

L2 ASCDS Version : 7.6.7.2

Observation 5096 - L2 Version 001
Chandra X-Ray Center

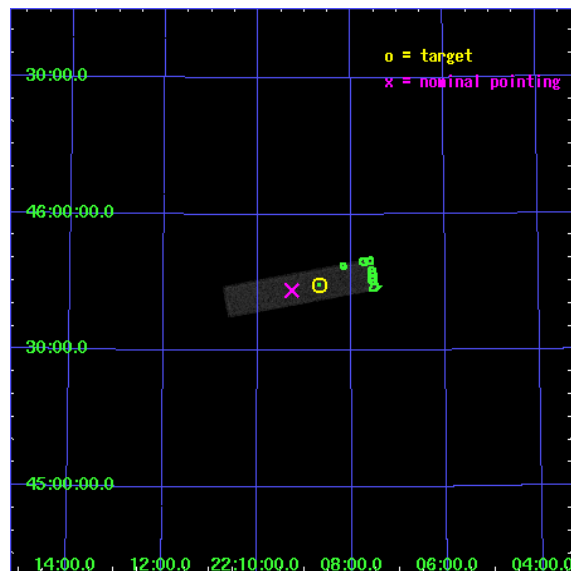
L2 Processing Date : Jun 4 2006

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1 Front

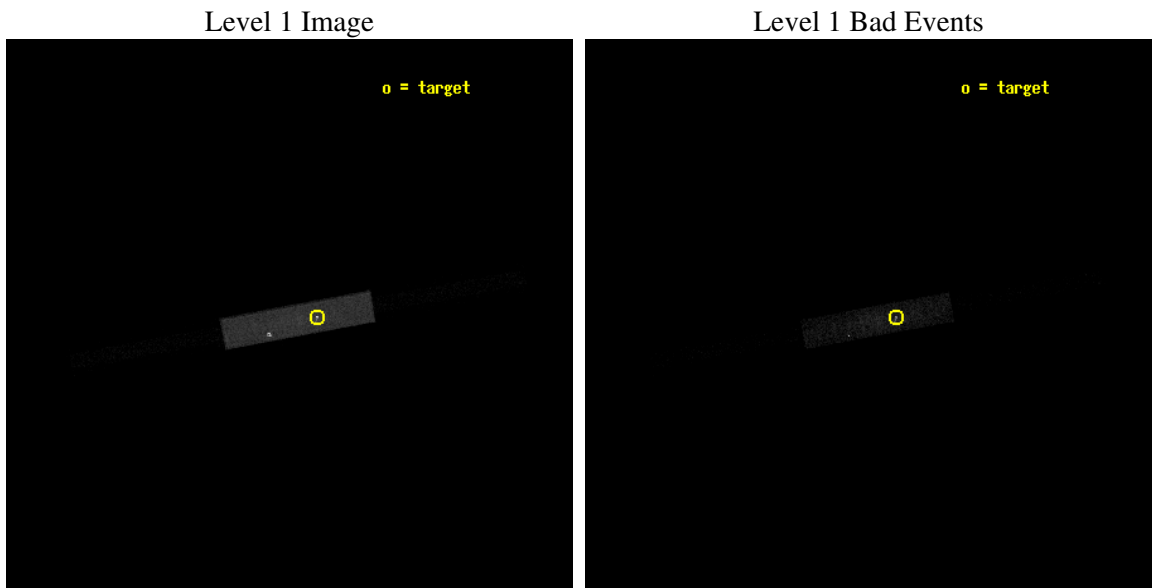
seq_num	290369
obs_id	5096
title	AO5A Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain
observer	Dr. CXC Calibration
object	ArLac
ra_targ	332.17
dec_targ	45.742306
ra_nom	332.31696957228
dec_nom	45.722170160539
roll_nom	349.5138130508
revision	2
ontime	1088.8062976003
livetime	1082.8004307823
l2events	38478



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	0
ascdsver	7.6.7.2
caldbver	3.2.2
date	2006-06-04T19:36:50
revision	2

sched_exp_time	946.000000
ontime	1128.7812993228
l1events	72343

2.1.3 Events

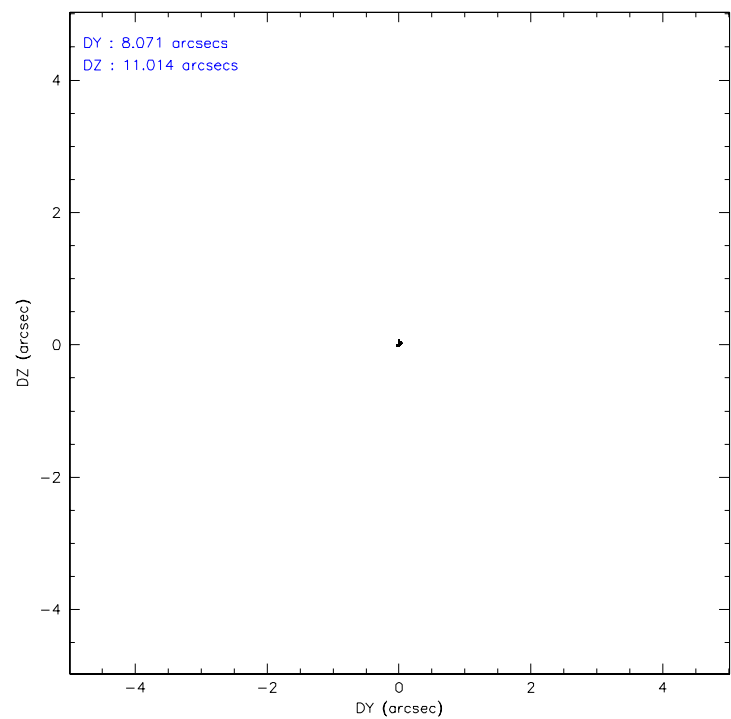
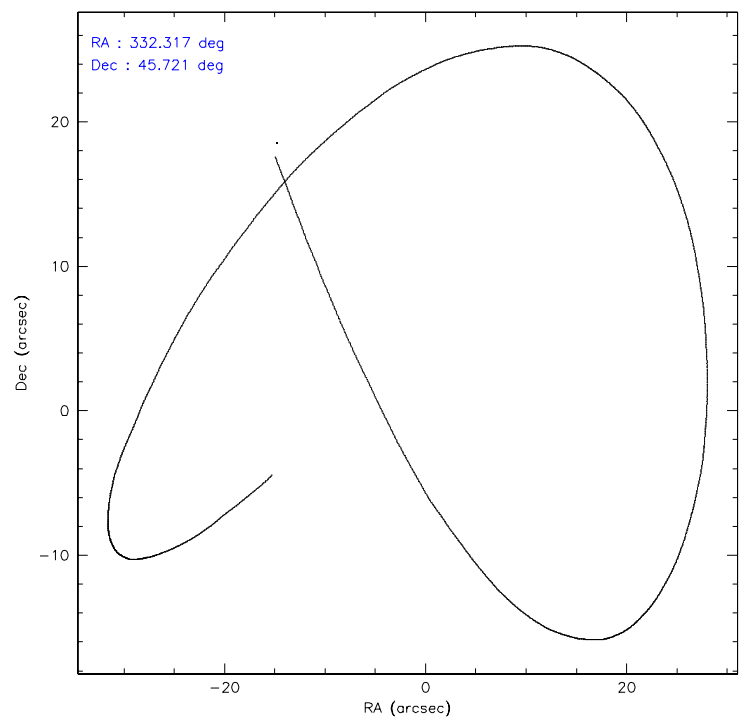
Level 1 Events

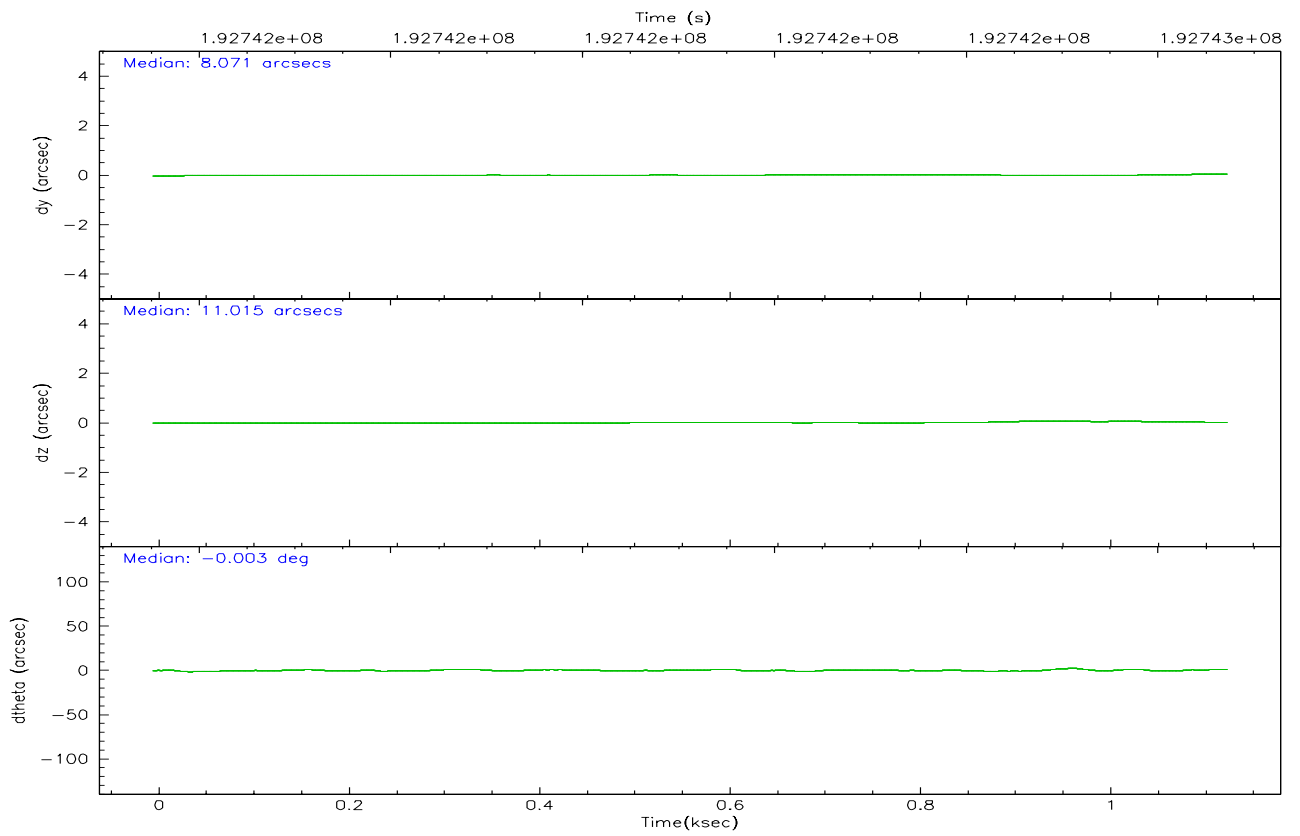
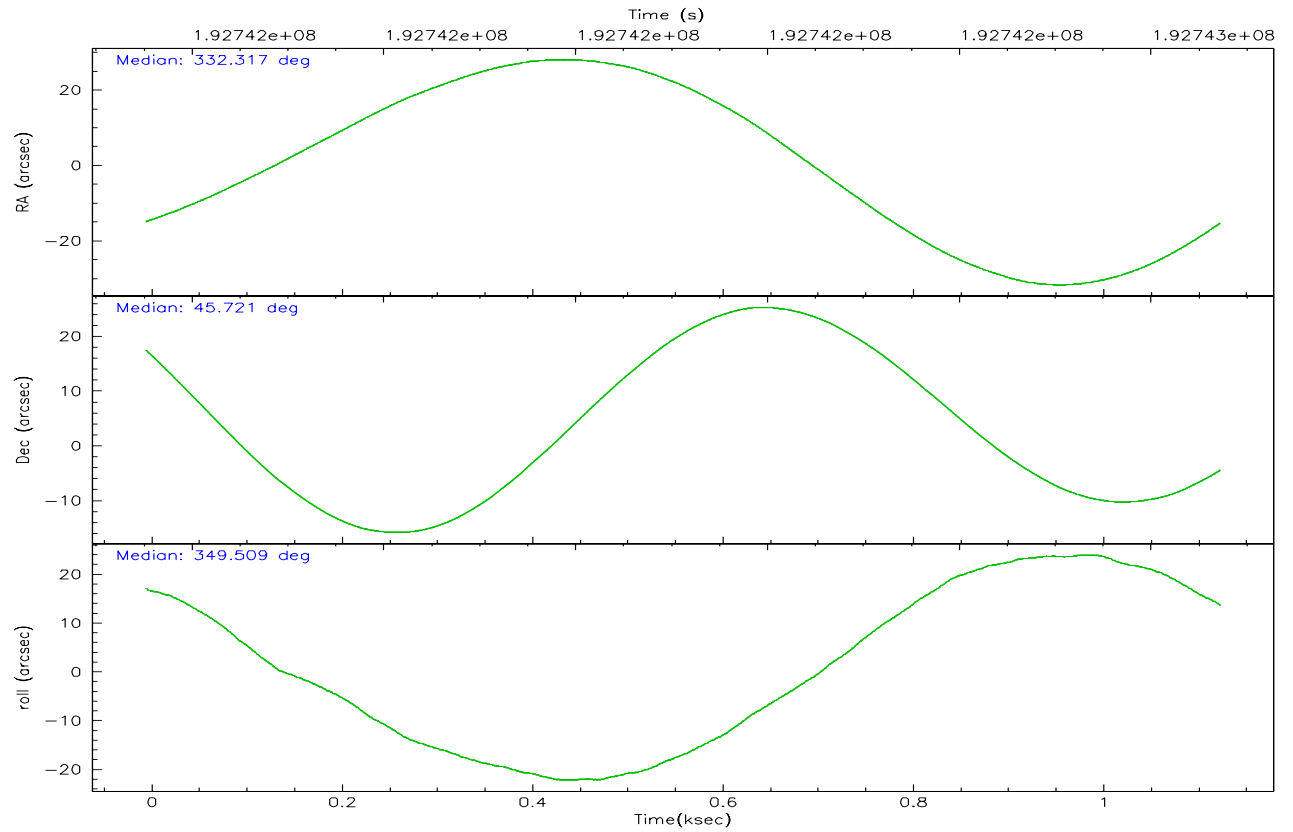
	segment 1	segment 2	segment 3
level 1 events	1046	70173	1124
rejected events	1046	25232	1124
rejected %	100%	35%	100%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	6	6
Detector	HRC-S	HRC-S	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
Pointing RA	332.279541	332.3169695722767			
Pointing Dec	45.712225	45.72217016053899			
Pointing Roll	349.473288	349.5138130507992			
SIM focus pos (mm)	-1.429586	-1.428180813131781			
SIM defocus (mm)	0.1037507710433287	0.1051558262725154			
SIM translation stage pos (mm)	250.455976	250.466033080201			
SIM translation stage offset (mm)	0	-0.01005468664627074			
Observation start time	192741729.184000	192741352.72296			
Observation start date	2004-02-09T19:21:05	2004-02-09T19:15:52			
Observation end time	192742675.184000	192742809.24802			
Observation end date	2004-02-09T19:36:51	2004-02-09T19:40:09			

2.3 Aspect



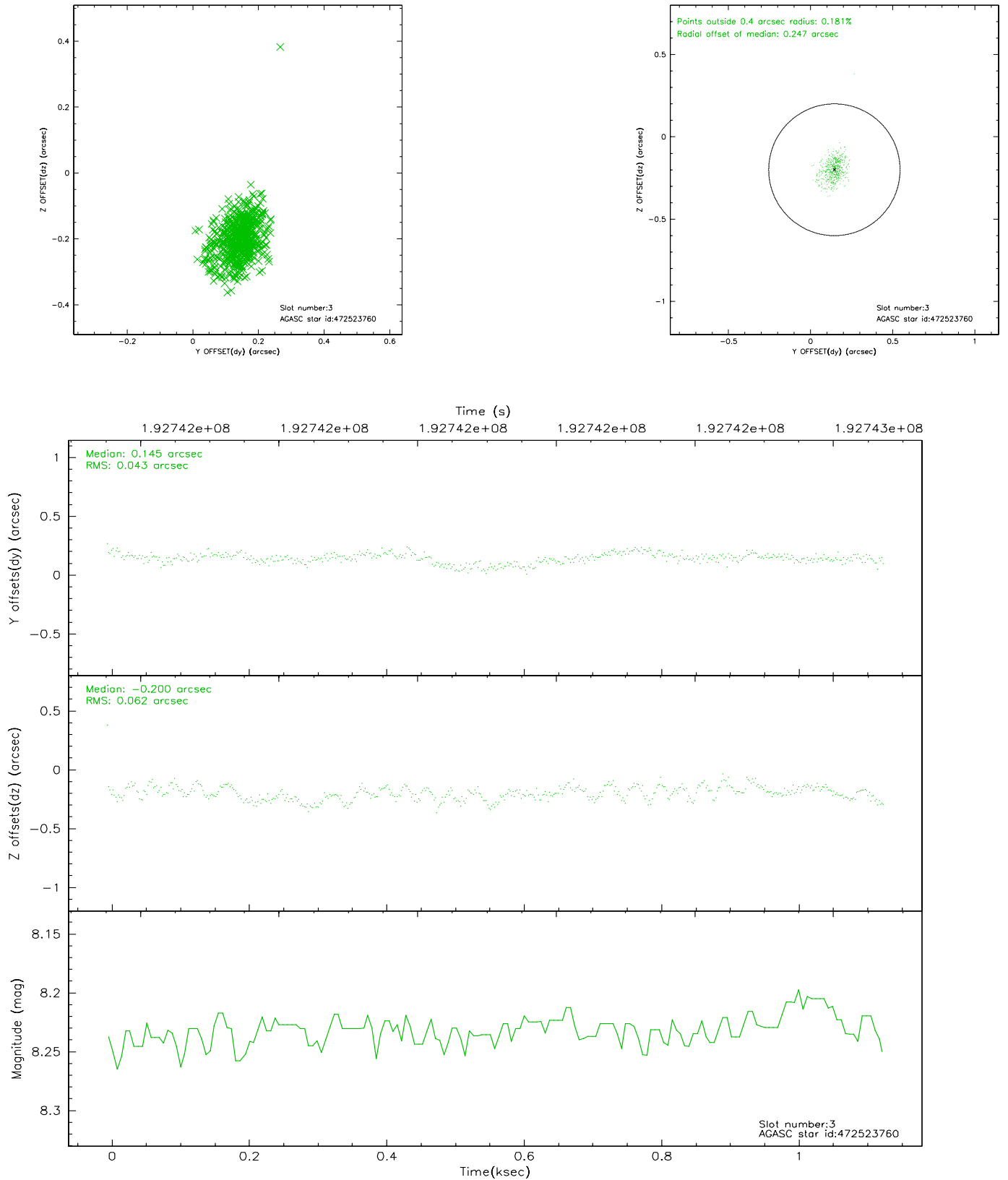


Slot Statistics

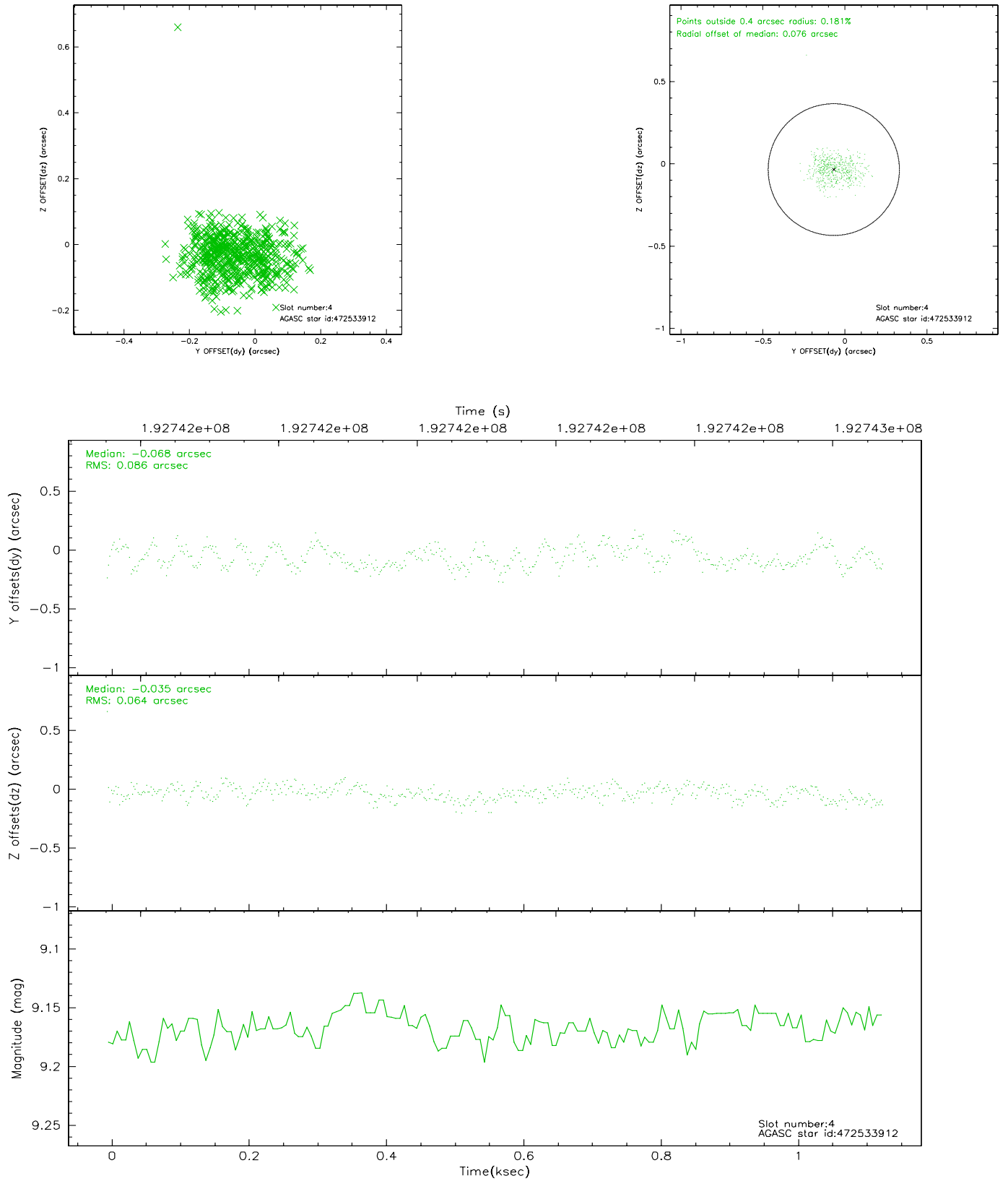
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.03	276	0.151	-0.165	0.006	0.010	0.000000	0.000000	-1162.23	-459.73
1	FID	HRC-S-2	7.02	276	0.130	-0.109	0.004	0.011	0.000000	0.000000	1233.22	-454.01
2	FID	HRC-S-3	7.03	276	0.109	-0.027	0.007	0.011	0.000000	0.000000	-1160.51	568.29
3	GUIDE	472523760	8.23	551	0.145	-0.200	0.075	0.126	331.645363	45.403260	-1373.14	-1376.88
4	GUIDE	472533912	9.17	552	-0.068	-0.035	0.112	0.177	331.791136	46.368695	-1627.45	2106.57
5	GUIDE	472655152	9.43	552	0.180	0.074	0.105	0.178	332.504239	45.862991	452.31	644.87
6	GUIDE	472659832	9.46	552	0.045	0.219	0.099	0.161	332.780399	46.098139	976.07	1603.32
7	BAD	472654568	9.43	480	-0.349	-0.049	0.101	0.177	332.194449	45.063576	218.75	-2325.56

2.4 Star Slots

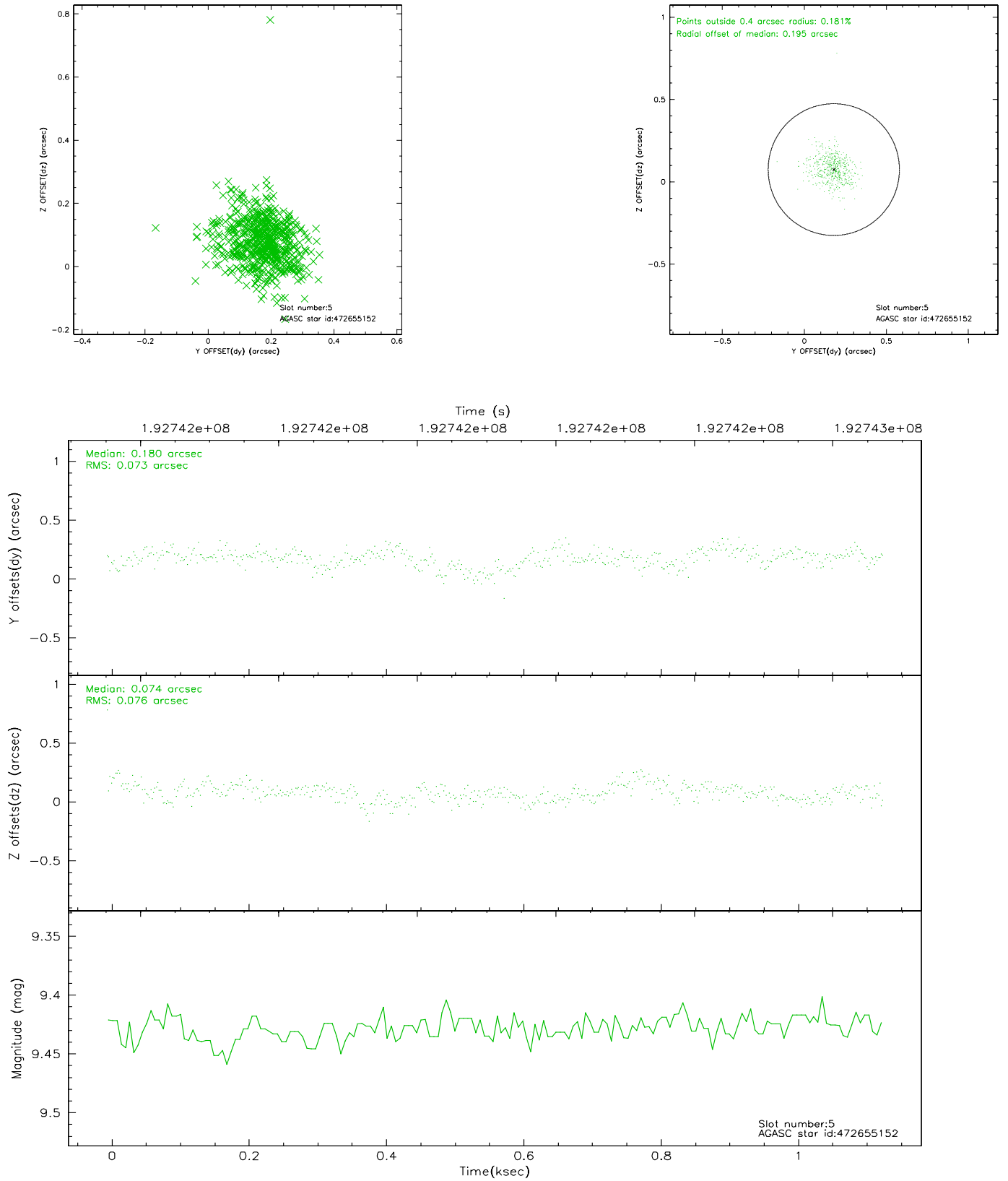
2.4.1 Slot 3



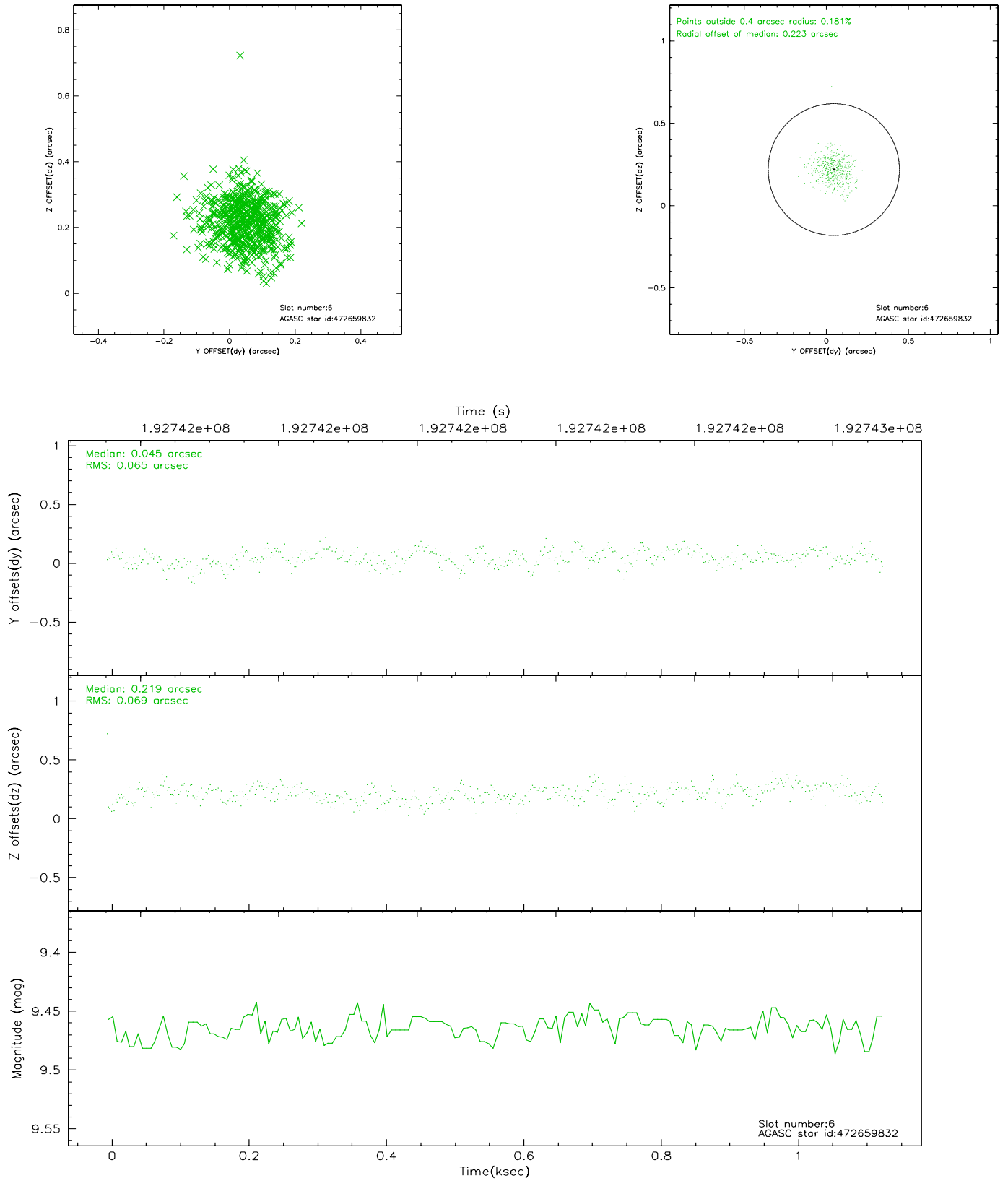
2.4.2 Slot 4



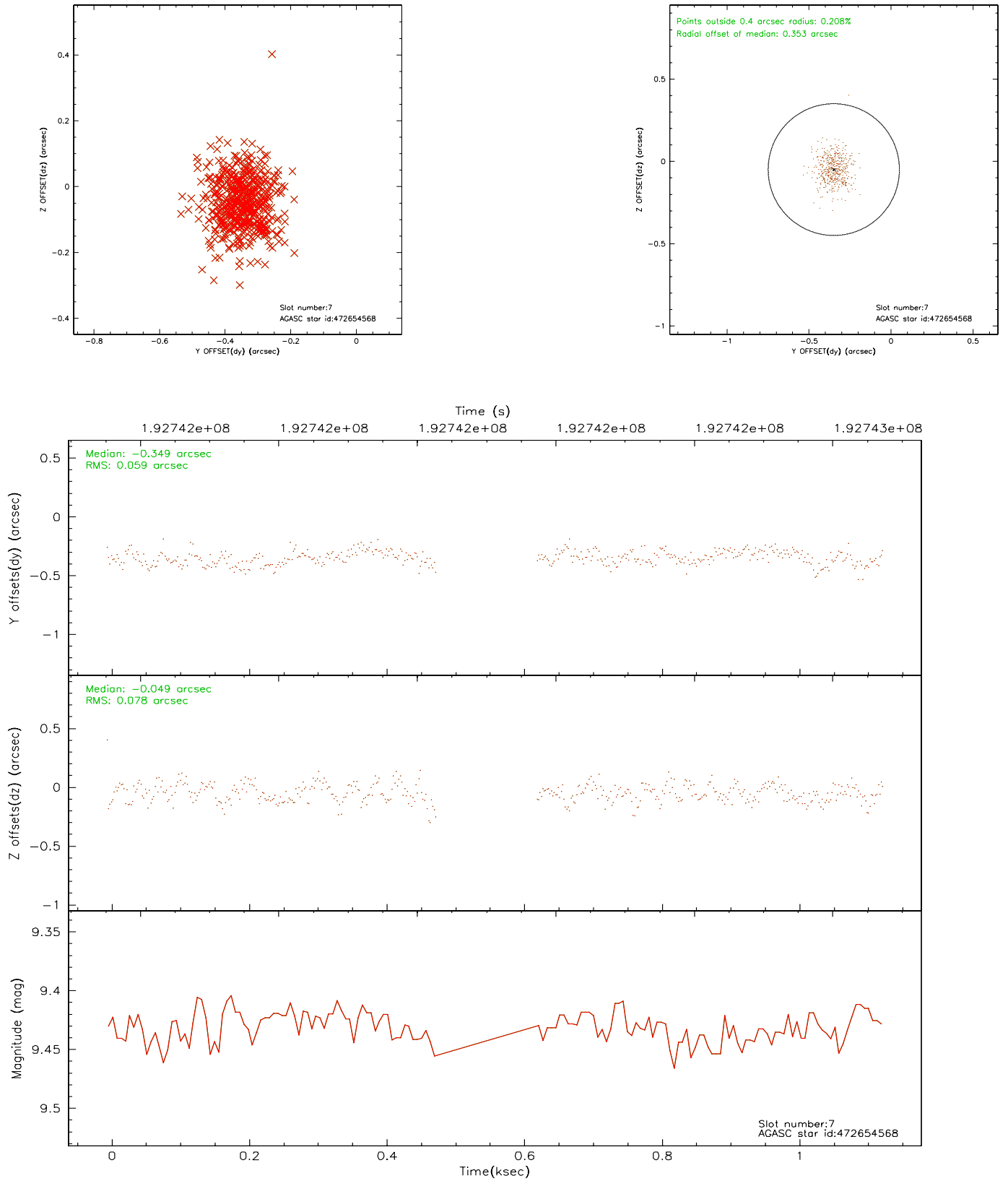
2.4.3 Slot 5



2.4.4 Slot 6

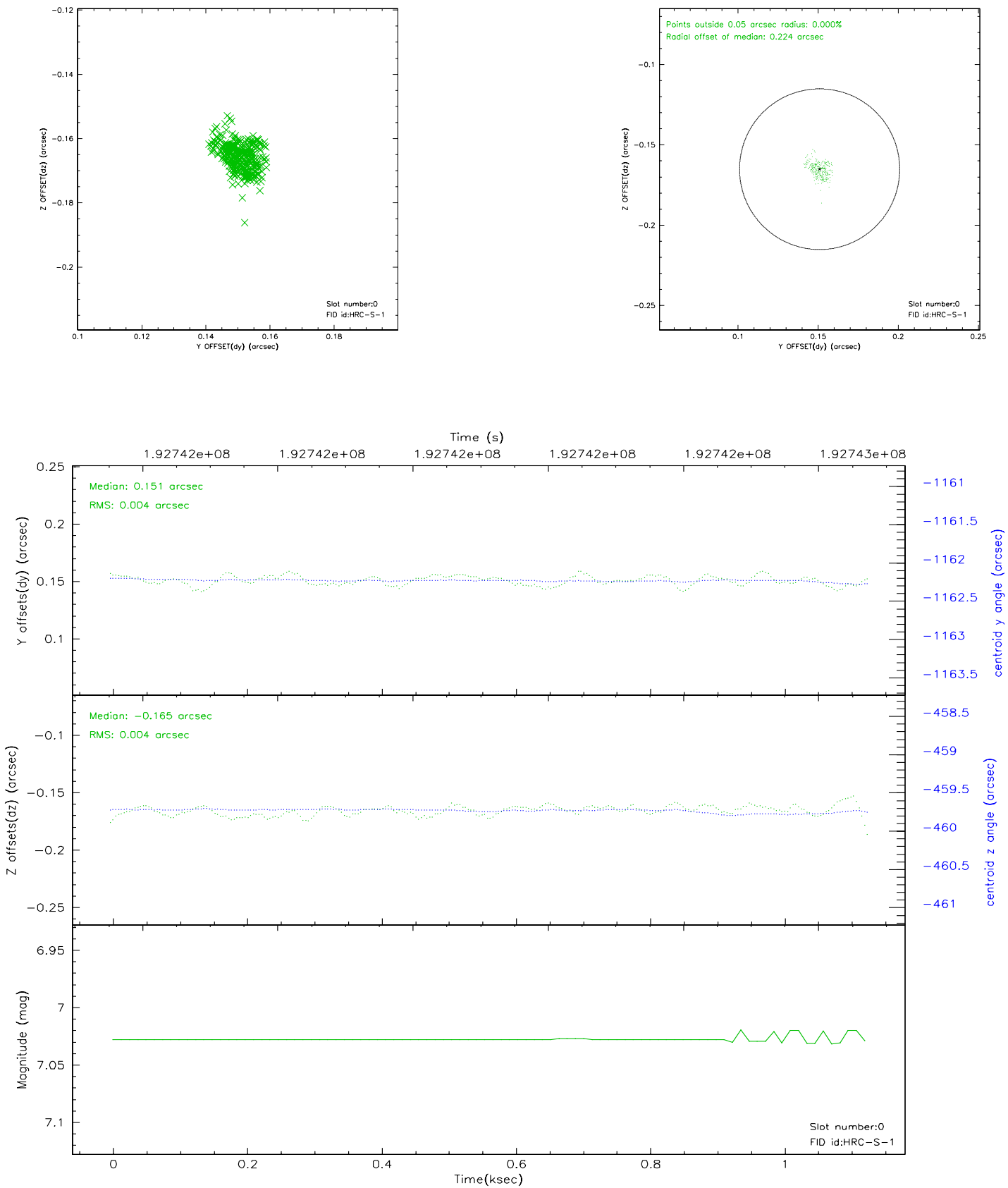


2.4.5 Slot 7

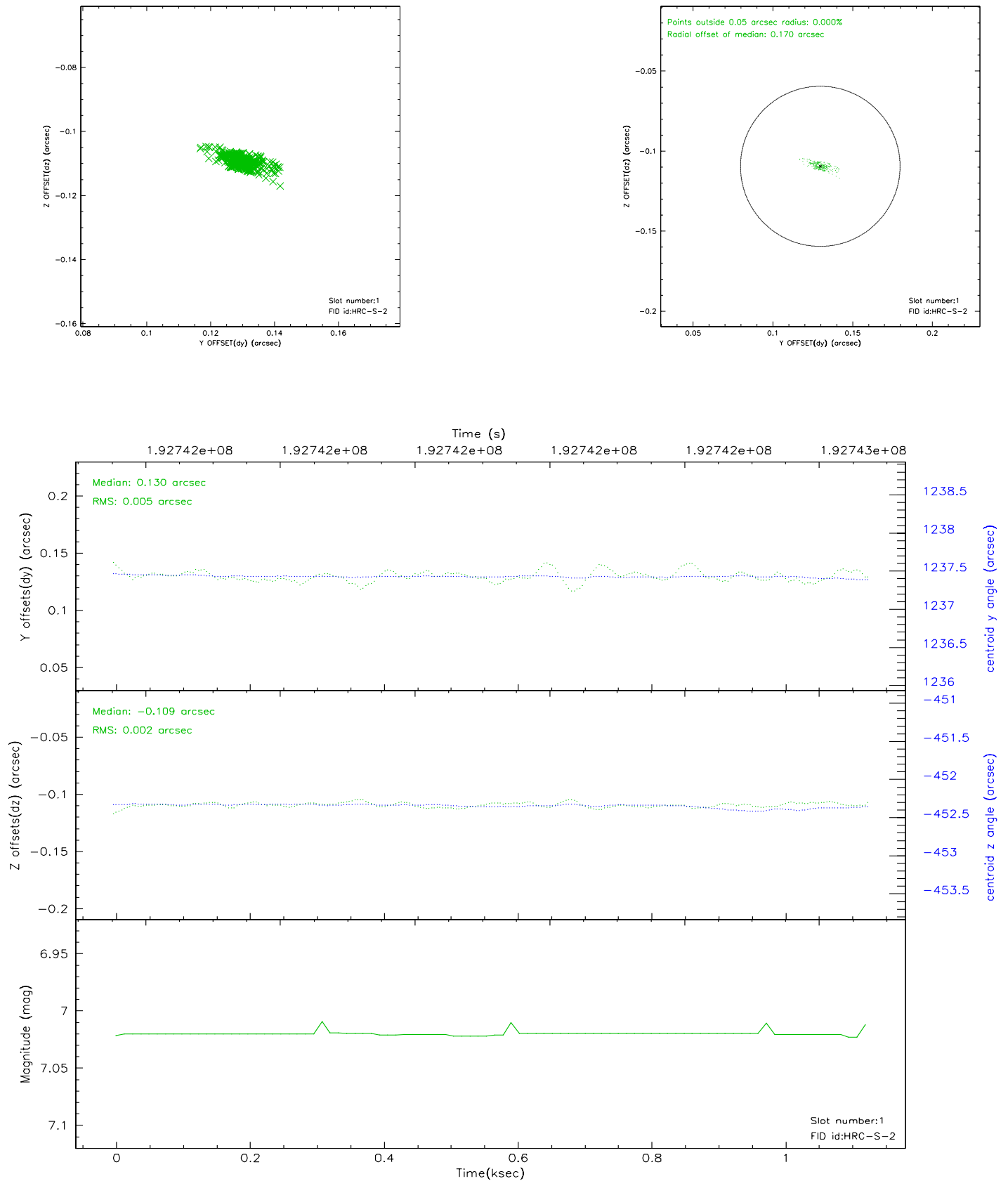


2.5 FID Slots

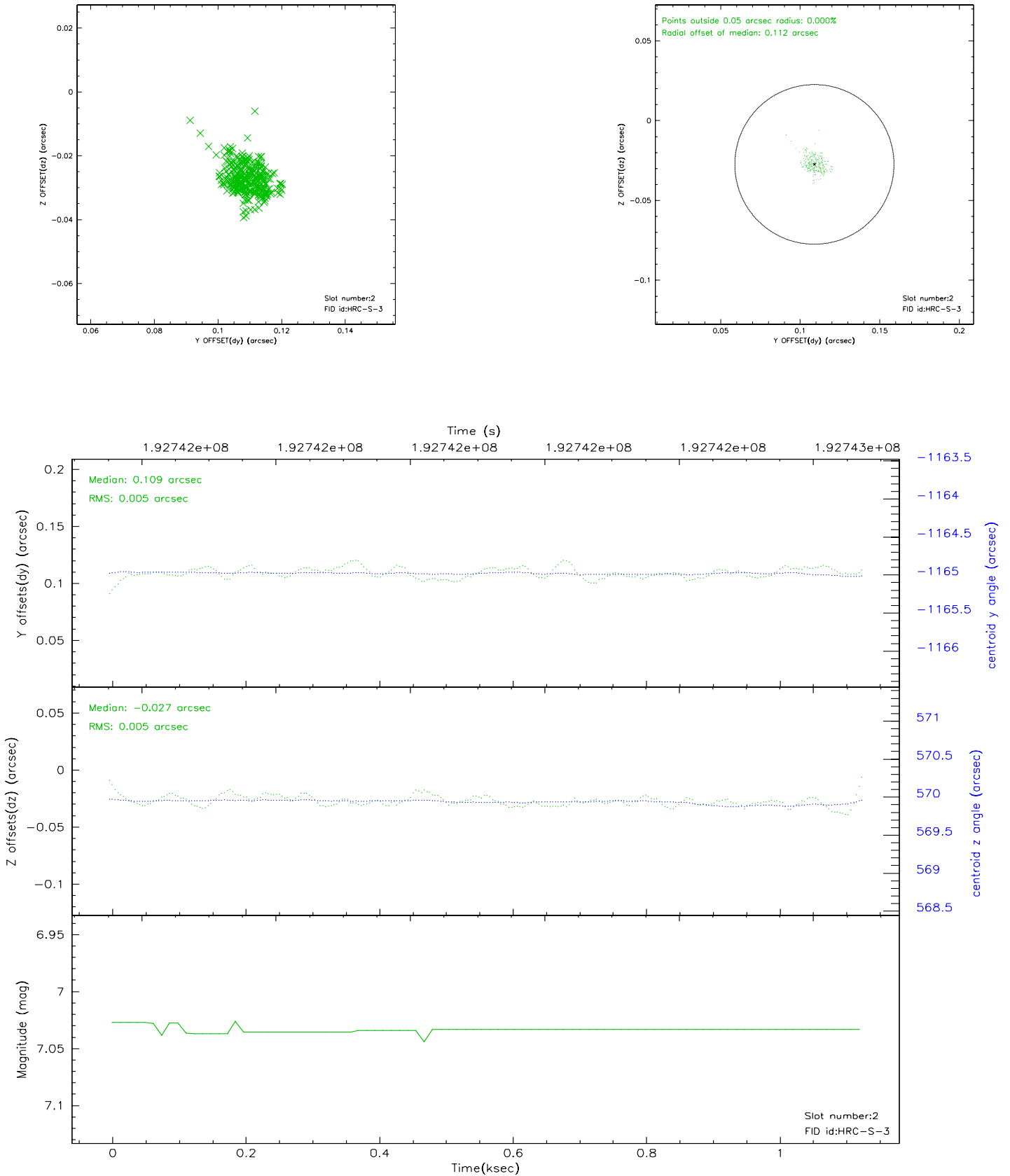
2.5.1 Slot 0



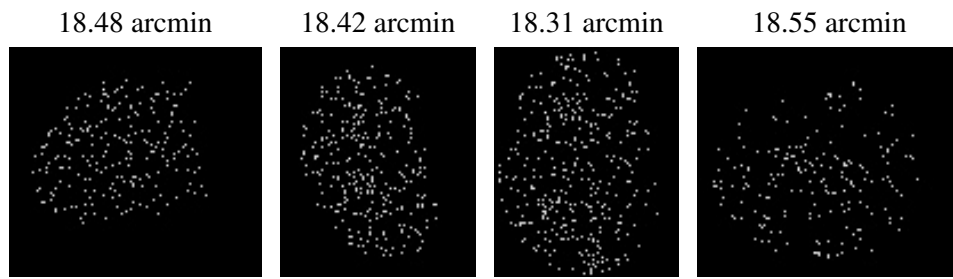
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2006.06.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.088

A.2 Comments

Guide star in slot 7 was not tracked accurately during the observation,
and was not used in the aspect solution.

The keywords DTCOR, EXPOSURE, and LIVETIME in the Level 2 event file and the keyword DTCOR in the Level 1 event file have been incorrectly determined due to a software bug. The correct value of DTCOR can be found in the file DTFSTATS file (*std_dtfstat1.fits) that can be obtained by downloading the Secondary Data Products. In most cases, the difference between the correct DTCOR value and the incorrect DTCOR value in the Level 2 event file is very small and does not affect the data analysis. However, there are cases of significant differences and the user is advised to use the DTCOR in the DTFSTATS file for analysis. Corrected data products will be made available in the archive as soon as feasible.