

V&V Reference Report

L2 ASCDS Version : 7.6.7.2

Observation 5053 - L2 Version 001
Chandra X-Ray Center

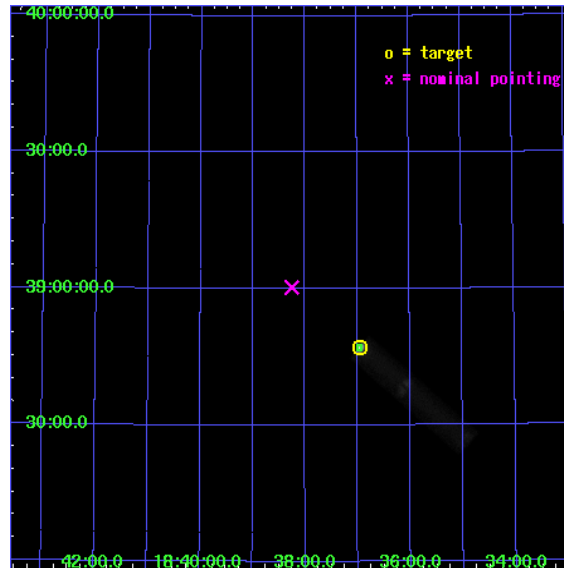
L2 Processing Date : Jun 4 2006

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1 Front

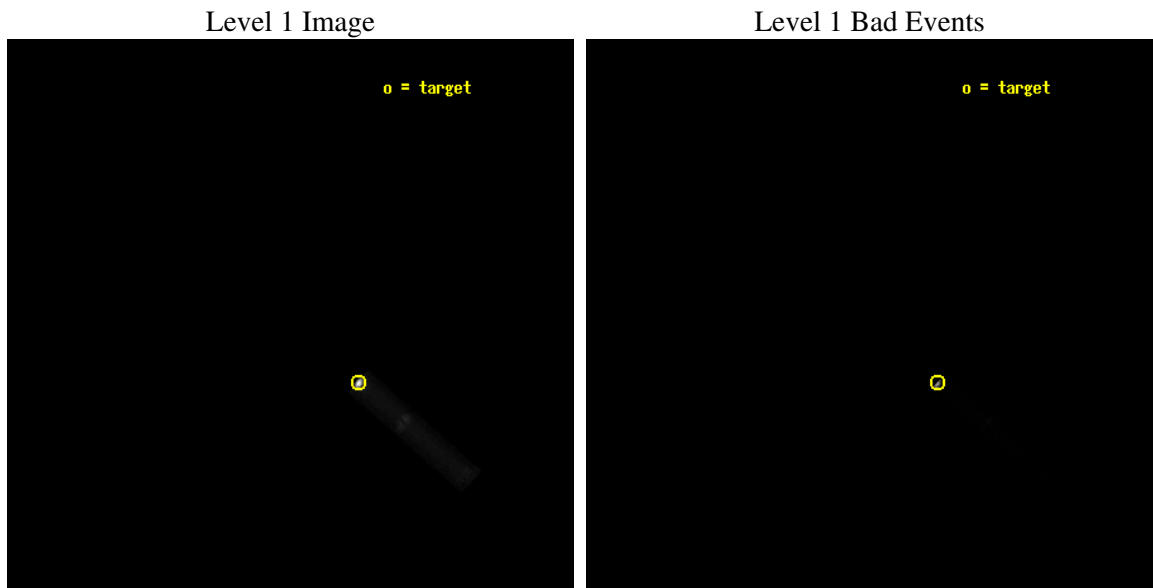
seq_num	290326
obs_id	5053
title	AO5 Measurements of the optical/UV Transmission of the HRC and ACIS Filters.
observer	Dr. CXC Calibration
object	Vega
ra_targ	279.235
dec_targ	38.783778
ra_nom	279.5626323693
dec_nom	39.005555848845
roll_nom	41.04237082377
revision	2
ontime	2143.5313436985
livetime	770.83272184403
l2events	326148



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	2006-06-04T10:36:52
revision	2

sched_exp_time	2000.000000
ontime	2189.6563456953
l1events	445684

2.1.3 Events

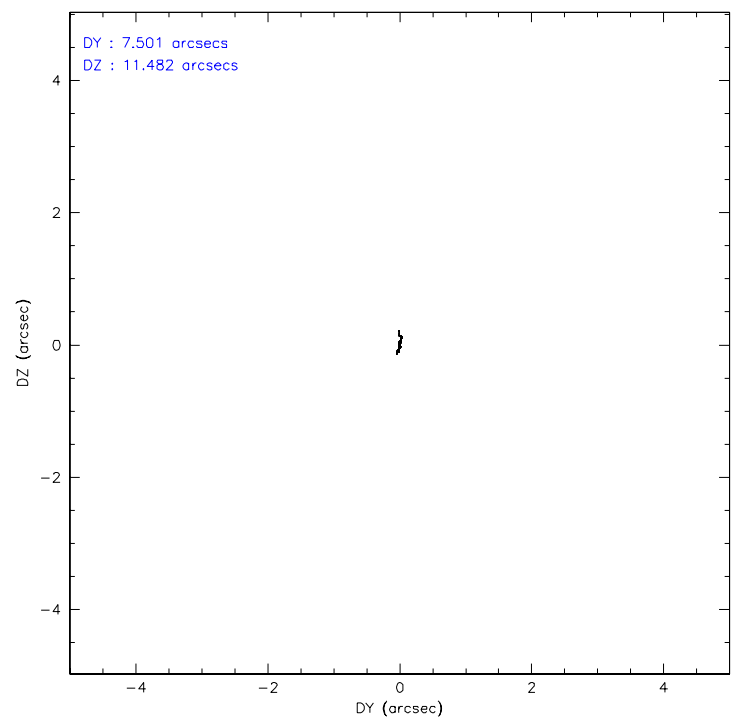
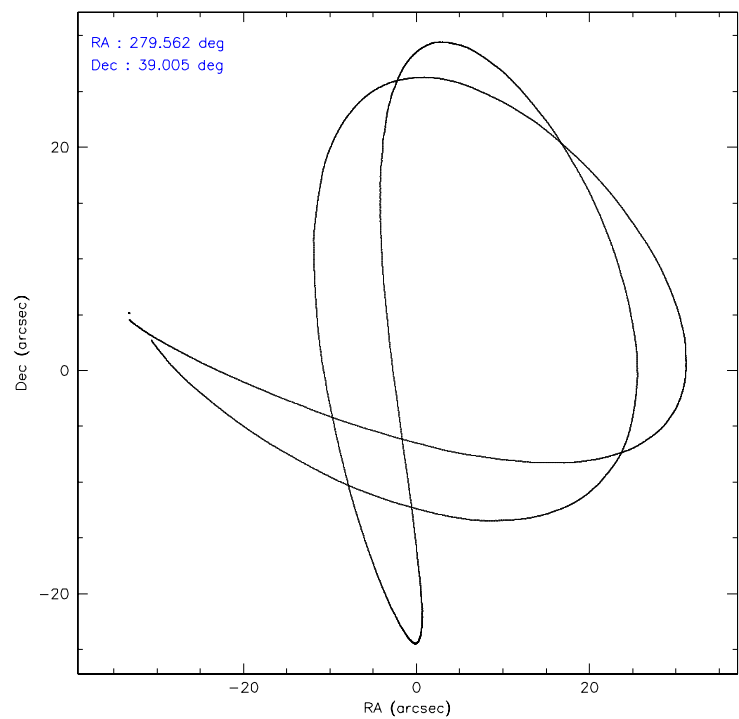
Level 1 Events

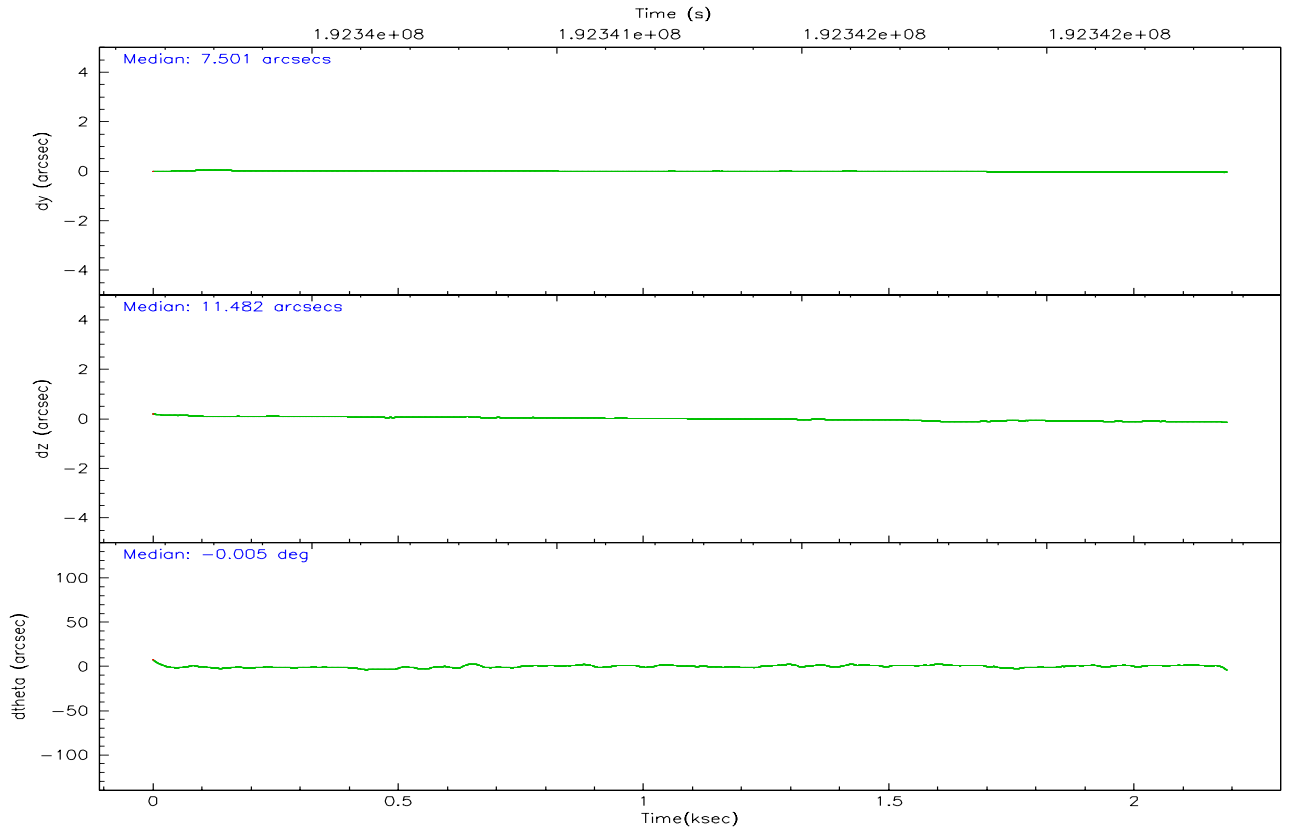
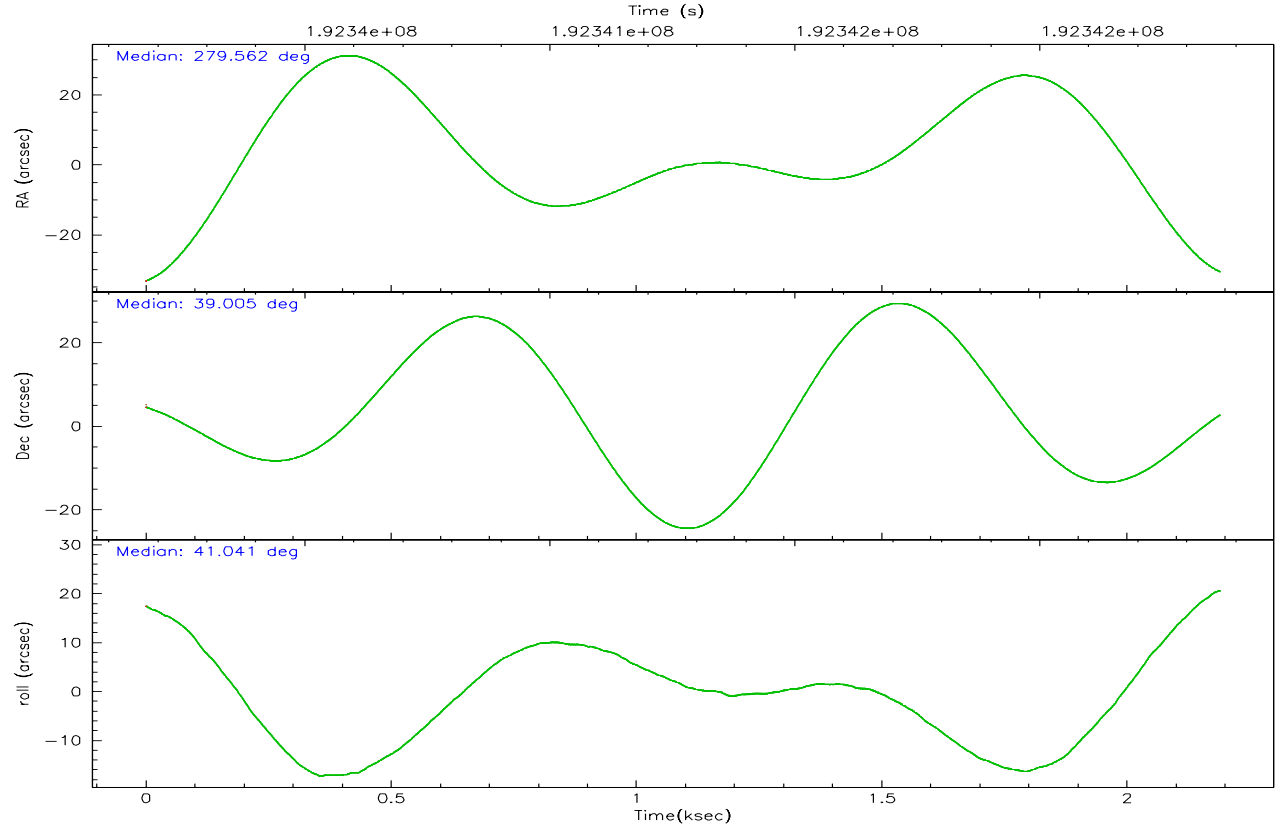
	segment 1	segment 2	segment 3
level 1 events	424389	20011	1284
rejected events	35075	19993	1284
rejected %	8%	99%	100%

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	279.552278	279.5626323692991			
Pointing Dec	38.978308	39.00555584884522			
Pointing Roll	40.981572	41.04237082376956			
Window start time	191980864.184000	191980864.184000			
Window stop time	197078464.184000	197078464.184000			
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	192340366.184000	192339990.38041			
Observation start date	2004-02-05T03:51:42	2004-02-05T03:46:30			
Observation end time	192342366.184000	192342500.60552			
Observation end date	2004-02-05T04:25:02	2004-02-05T04:28:20			

2.3 Aspect



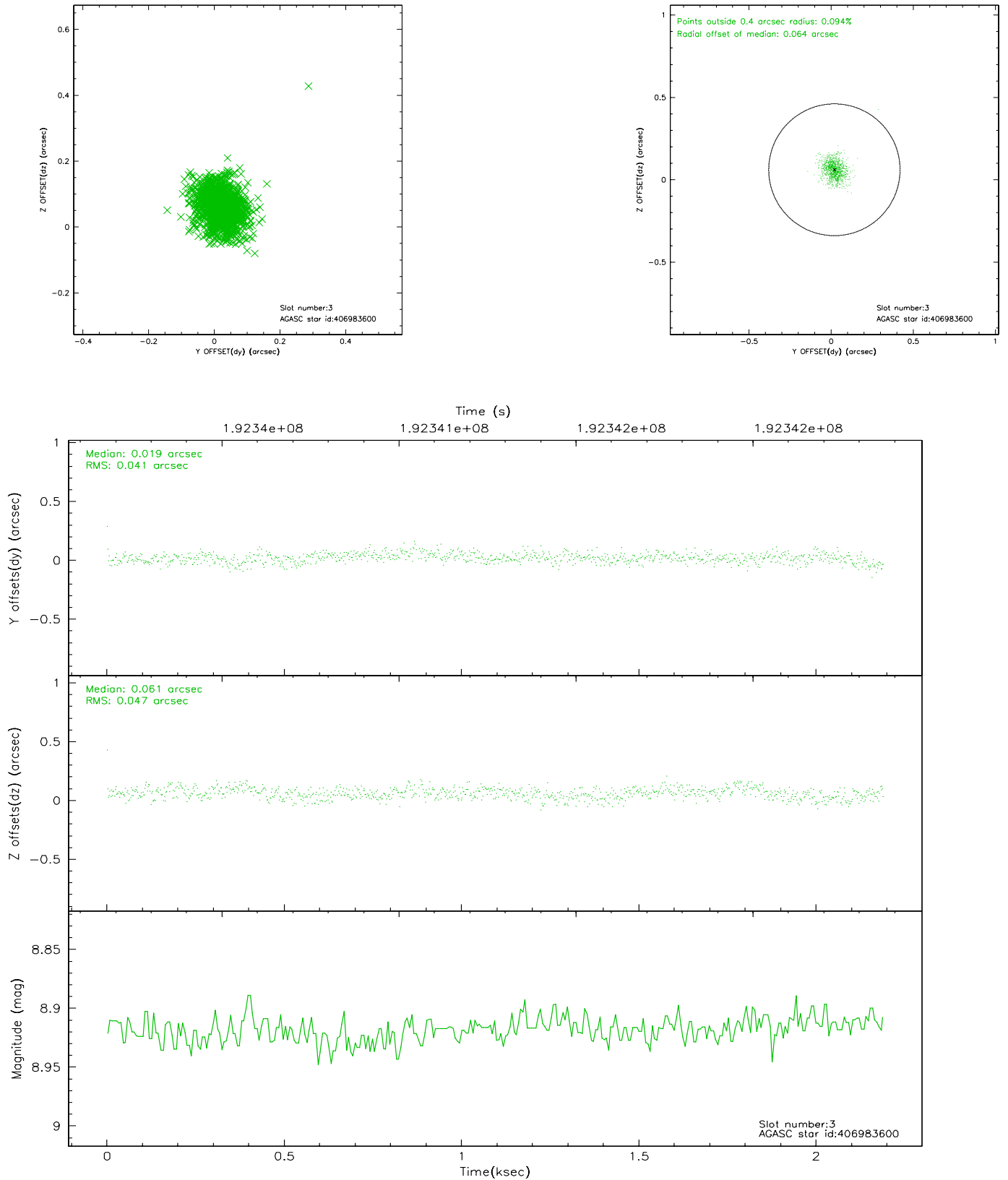


Slot Statistics

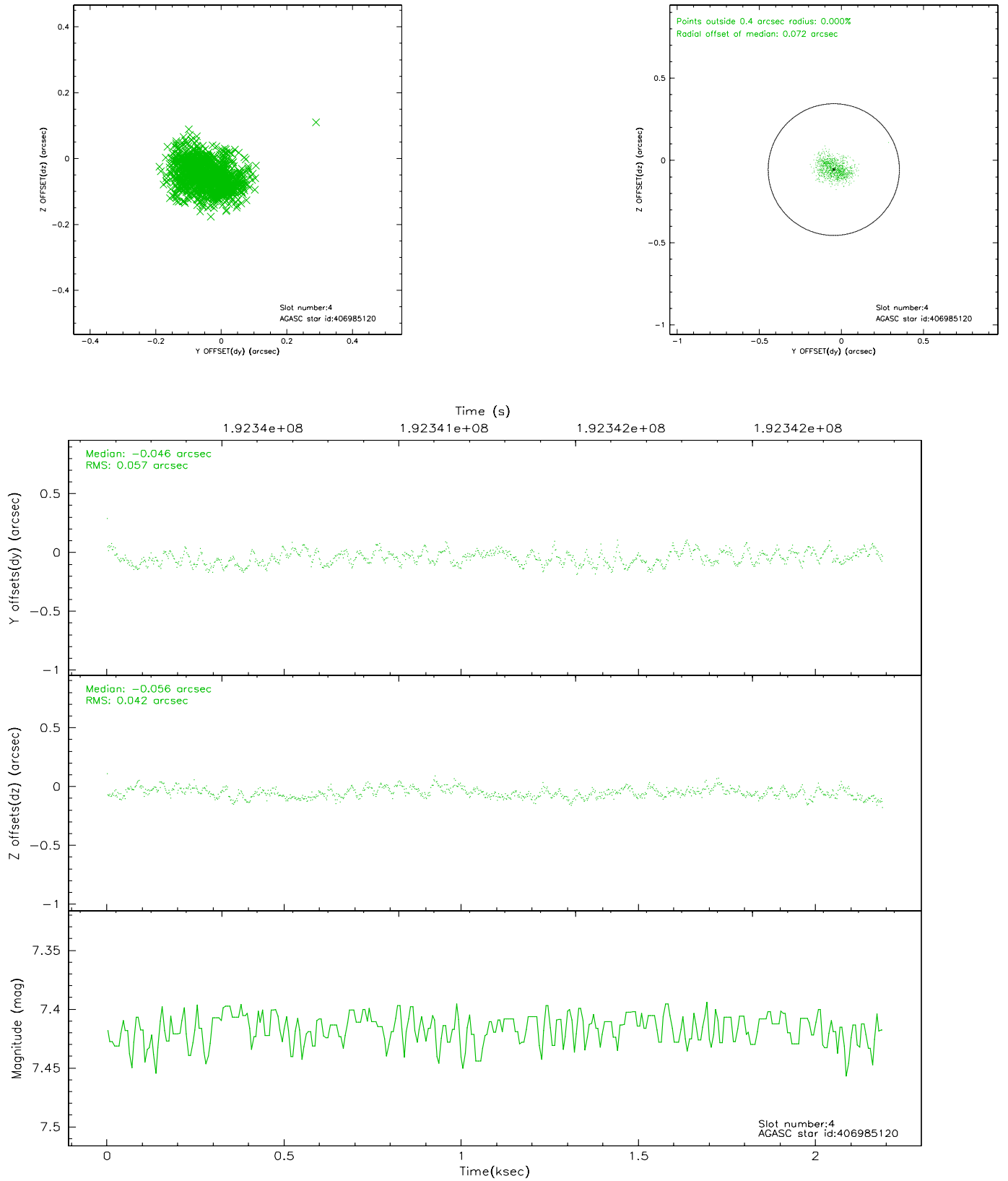
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.02	535	0.075	-0.149	0.007	0.012	0.000000	0.000000	-1161.69	-460.24
1	FID	HRC-S-3	7.04	535	0.100	-0.071	0.008	0.014	0.000000	0.000000	-1166.59	568.51
2	FID	HRC-S-4	6.99	535	0.213	-0.077	0.005	0.010	0.000000	0.000000	1234.49	573.07
3	GUIDE	406983600	8.92	1064	0.019	0.061	0.065	0.107	279.940957	39.020708	922.54	-595.35
4	GUIDE	406985120	7.42	1069	-0.046	-0.056	0.076	0.121	278.839732	38.894839	-1698.15	1088.72
5	GUIDE	406989616	8.23	1068	0.015	0.069	0.061	0.100	279.202881	38.520843	-1823.13	-594.44
6	GUIDE	407521232	8.64	1068	0.045	-0.053	0.066	0.104	279.628883	39.431715	1229.82	1093.05
7	GUIDE	407521584	8.94	1068	-0.033	-0.021	0.075	0.120	279.676096	39.795417	2189.07	1998.35

2.4 Star Slots

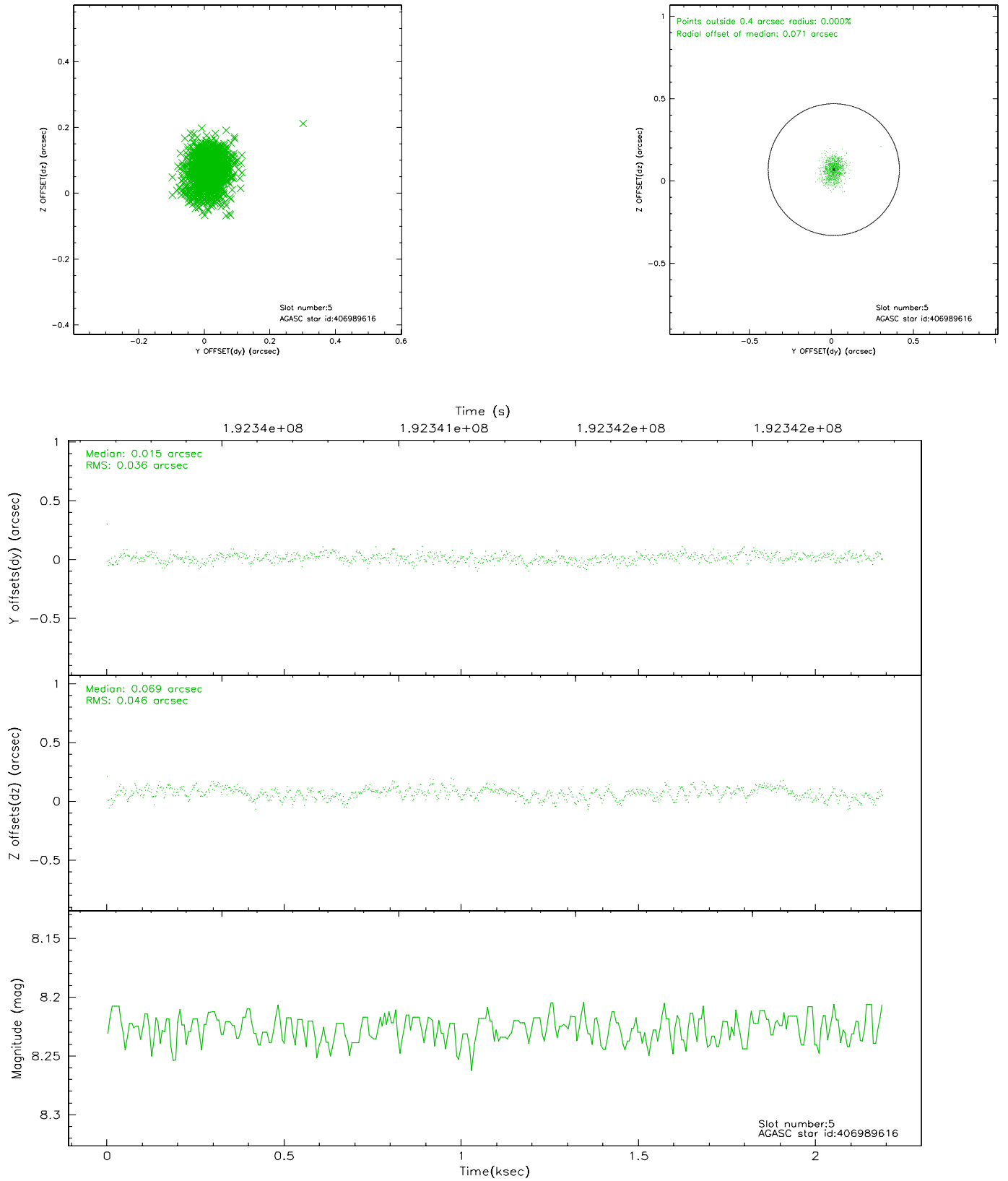
2.4.1 Slot 3



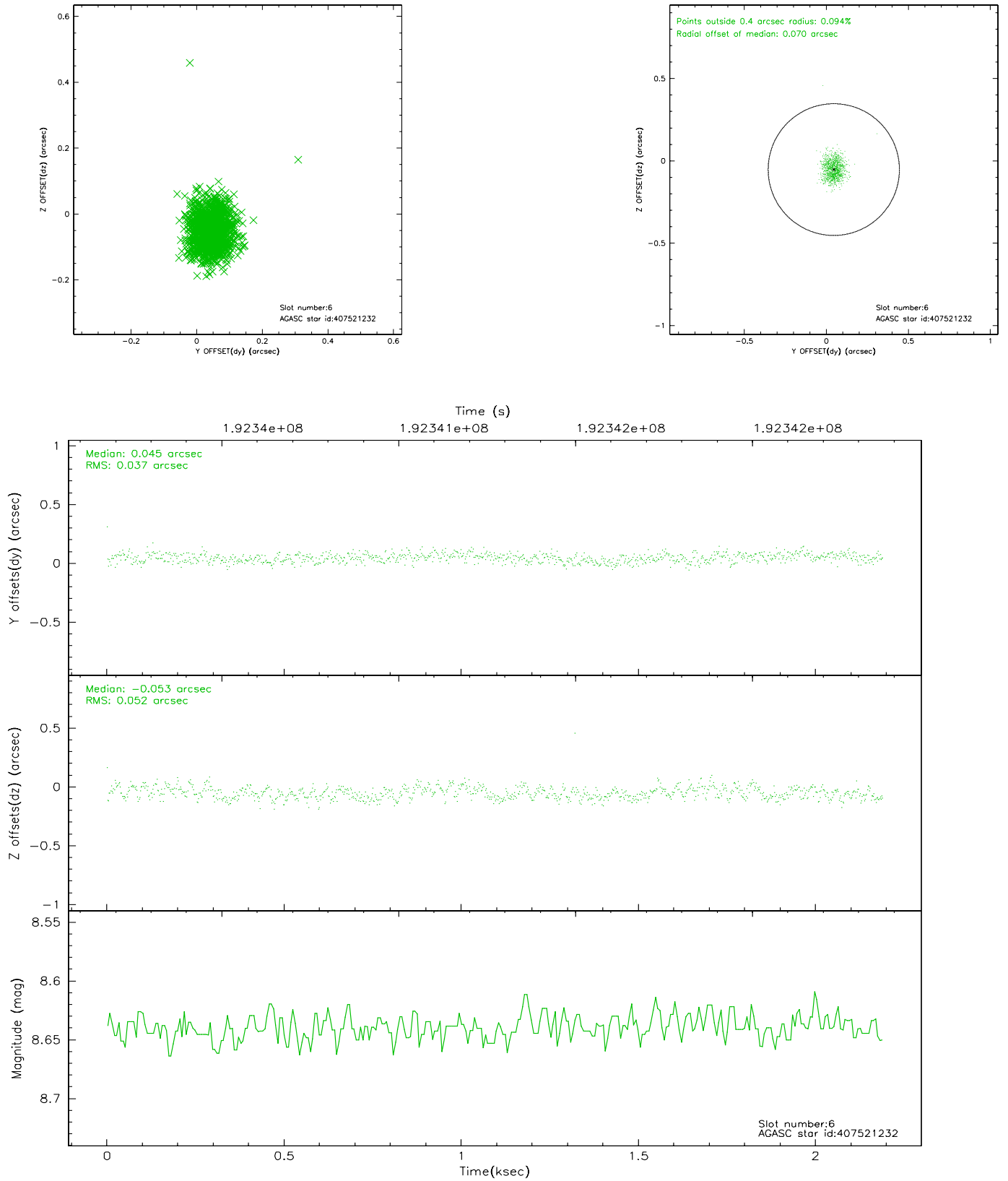
2.4.2 Slot 4



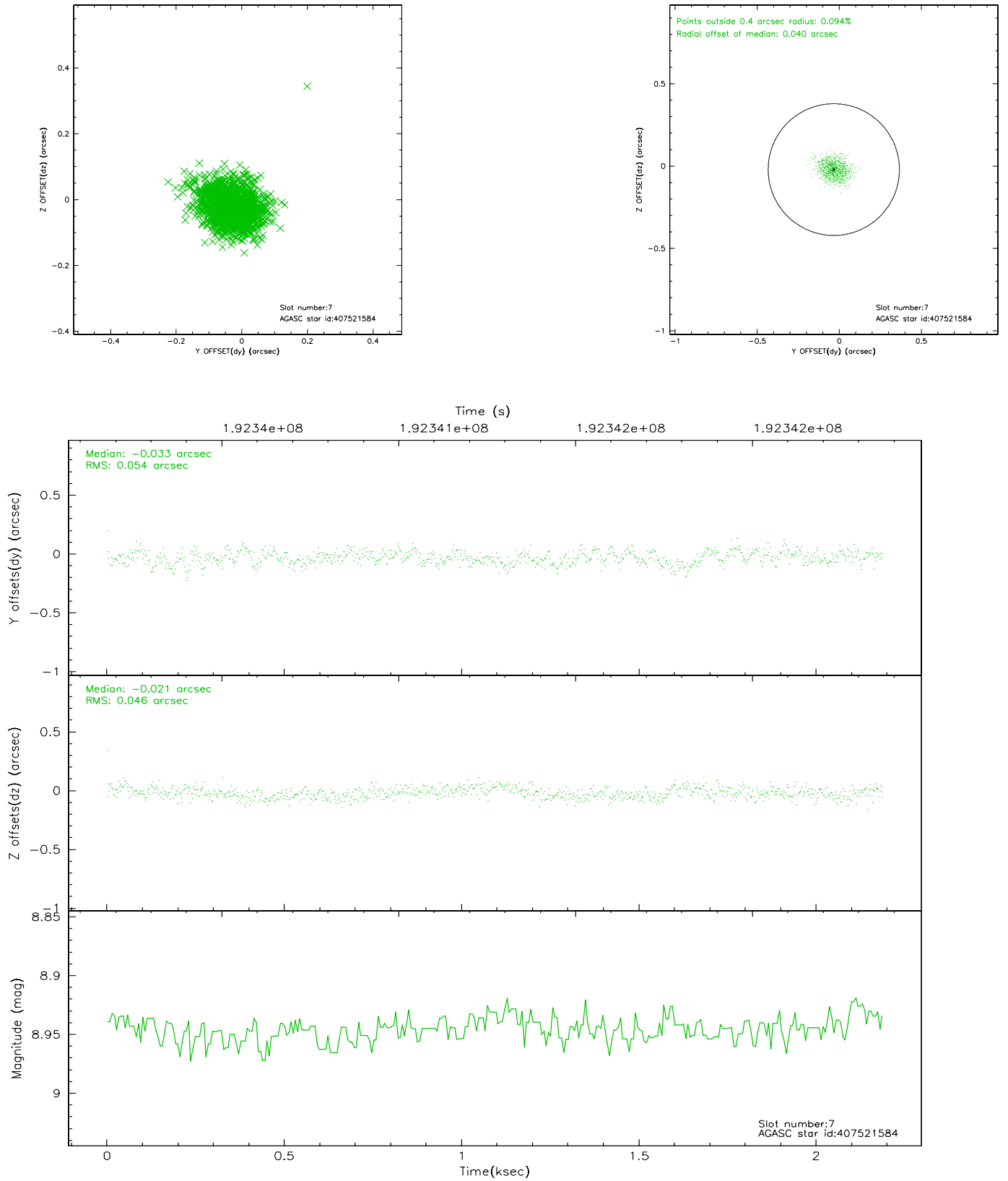
2.4.3 Slot 5



2.4.4 Slot 6

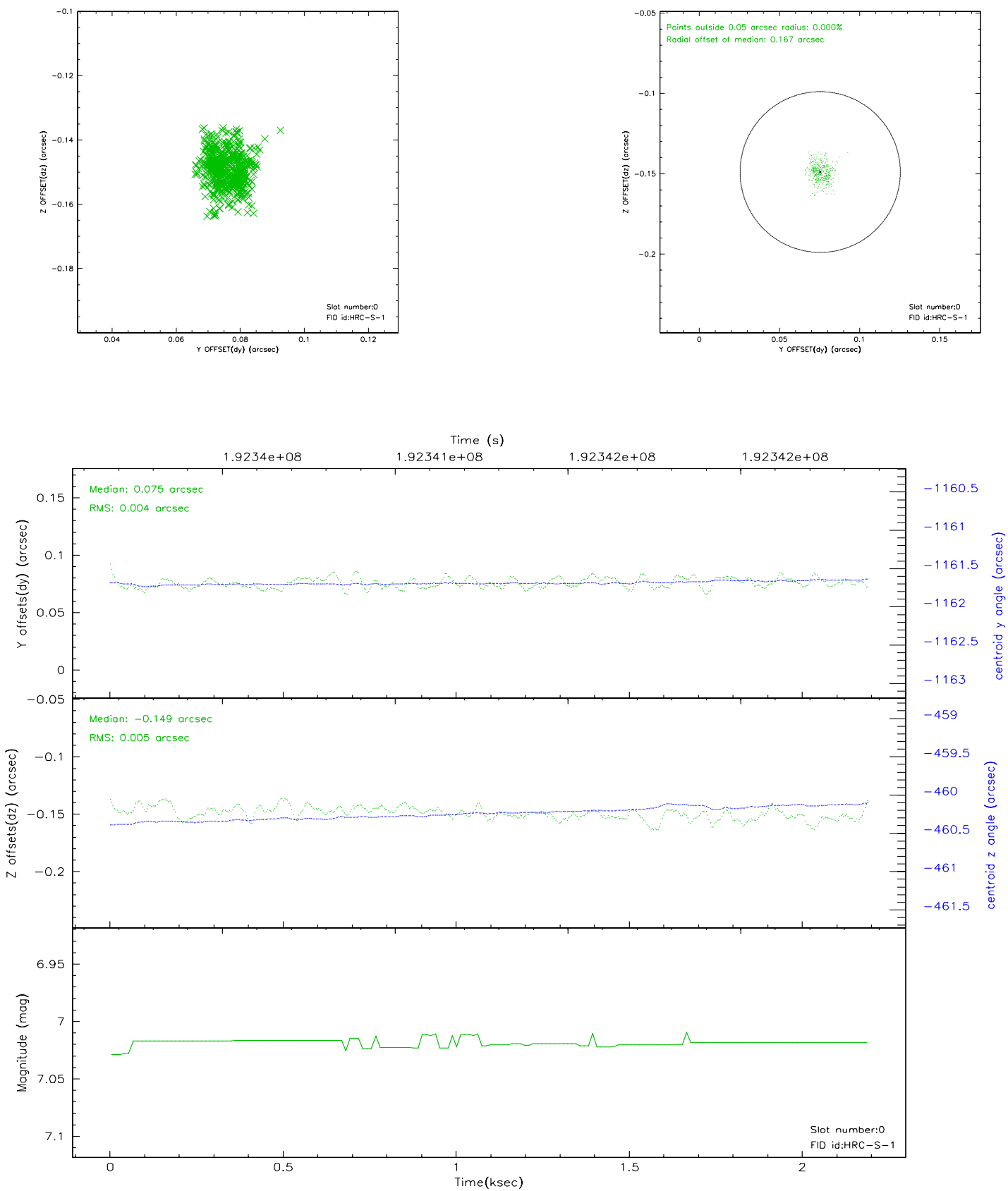


2.4.5 Slot 7

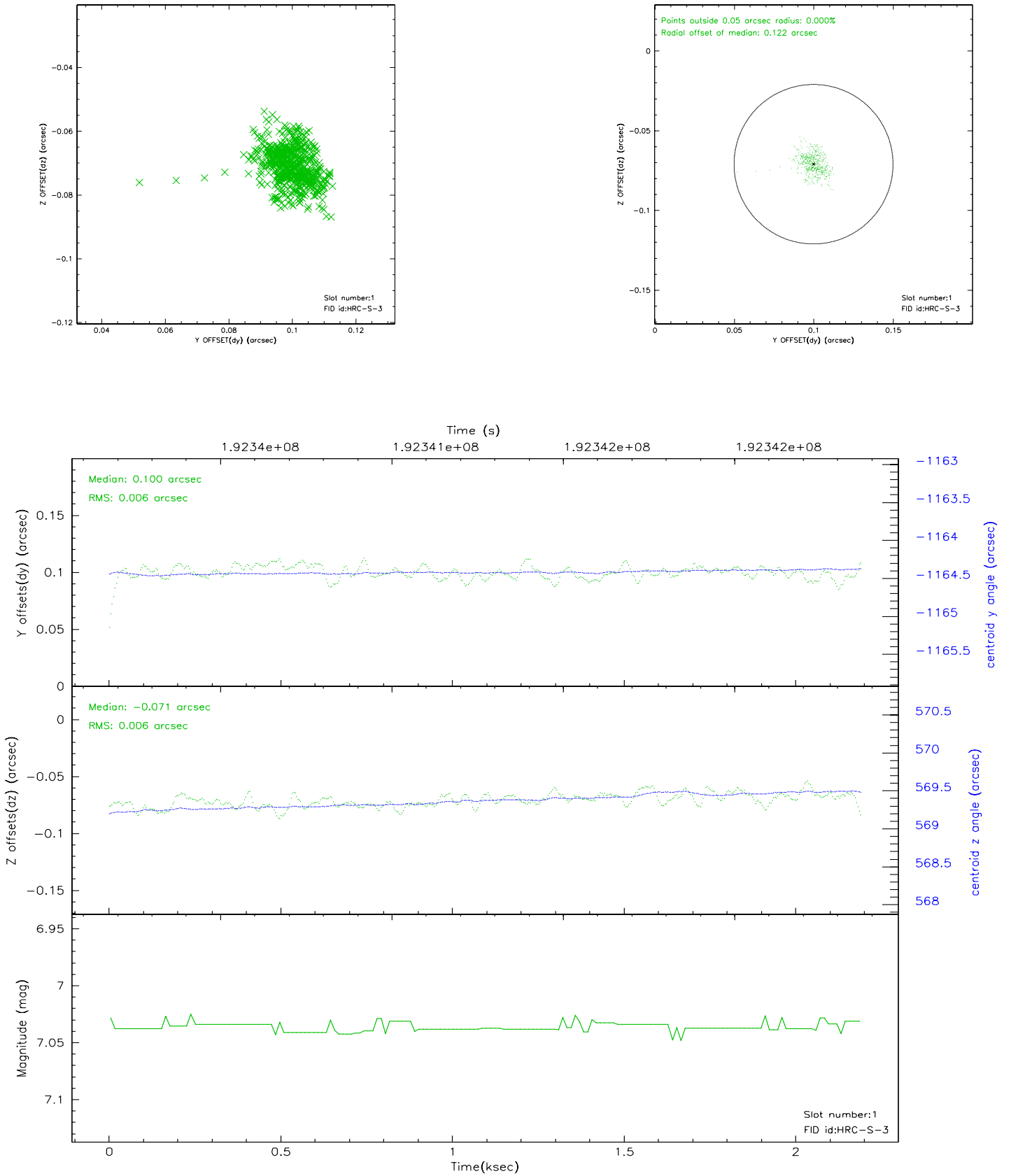


2.5 FID Slots

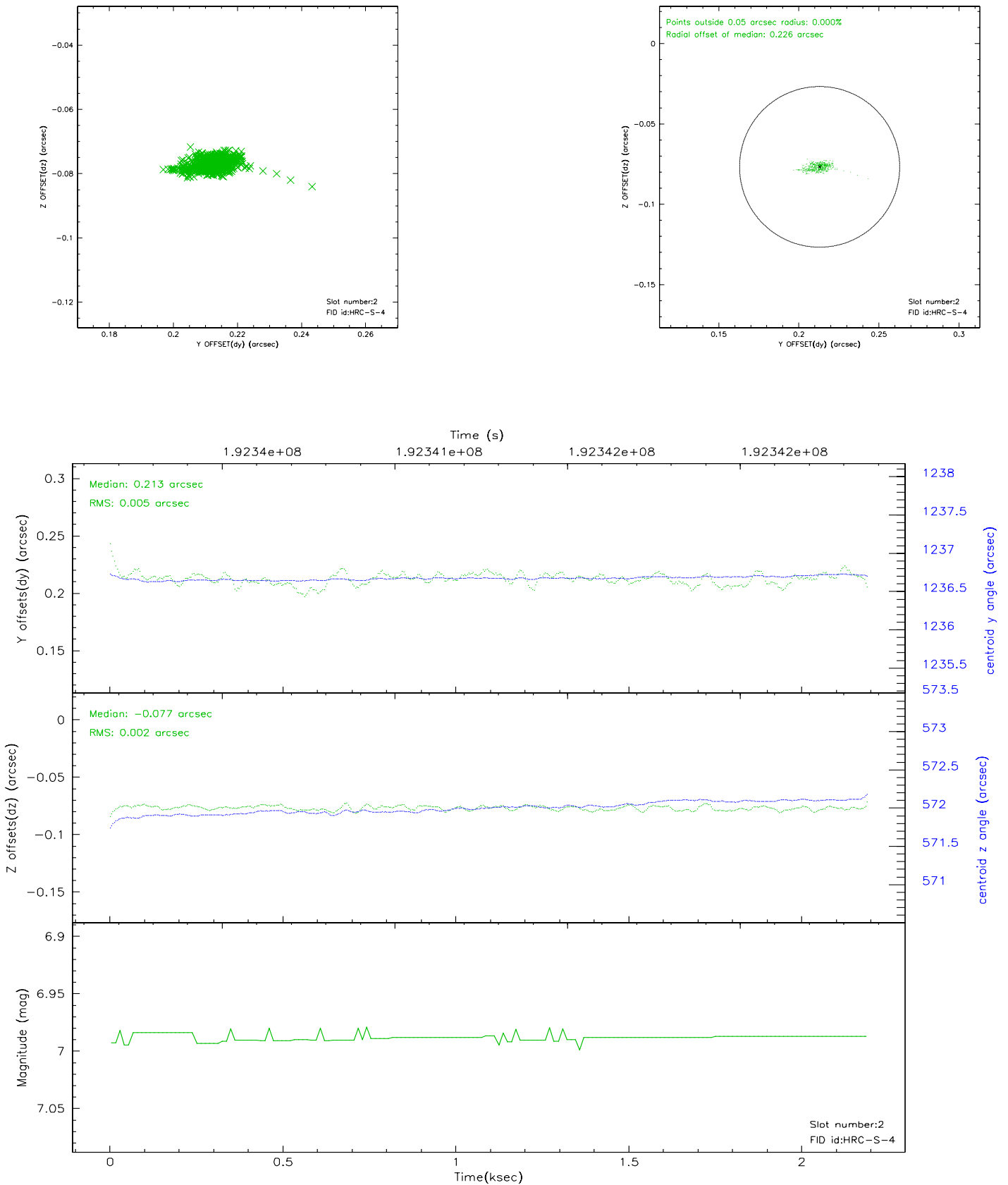
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources

A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.06.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.143

A.2 Comments

Window constraint met.

The chip and source are off-axis, causing the source to be extended, and also causing internal reflections from the telescope to fall onto the chip.

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 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.