

V&V Reference Report

L2 ASCDS Version : 7.6.7.2

Observation 5054 - L2 Version 001
Chandra X-Ray Center

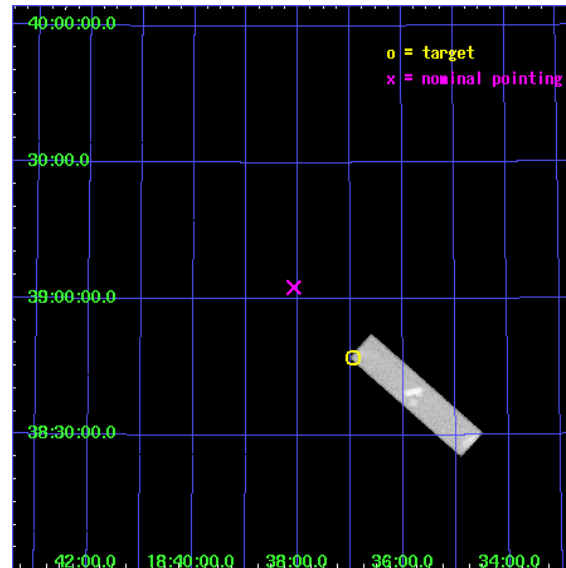
L2 Processing Date : Jun 4 2006

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1 Front

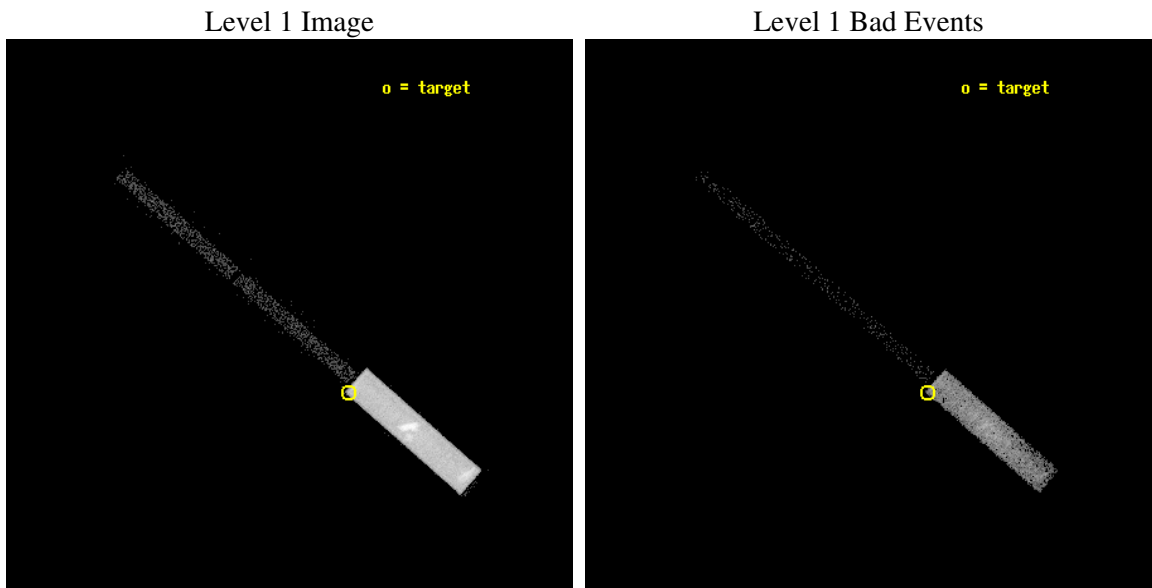
seq_num	290327
obs_id	5054
title	AO5 Measurements of the optical/UV Transmission of the HRC and ACIS Filters.
observer	Dr. CXC Calibration
object	Vega
ra_targ	279.235
dec_targ	38.783778
ra_nom	279.5200756821
dec_nom	39.043659290197
roll_nom	41.100007068903
revision	2
ontime	2142.2500936389
livetime	2133.4320061375
l2events	72309



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	2006-06-04T10:40:27
revision	2

sched_exp_time	2000.000000
ontime	2186.581345588
l1events	109405

2.1.3 Events

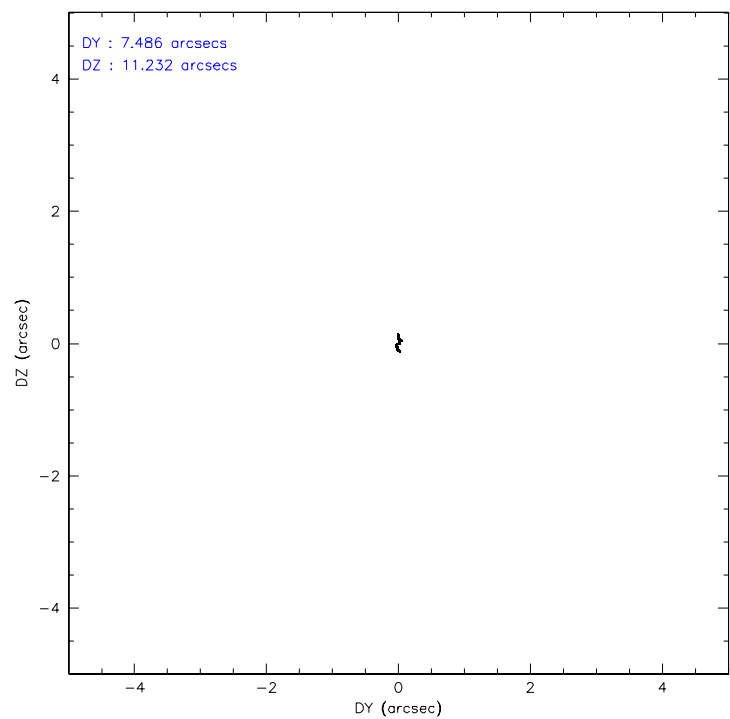
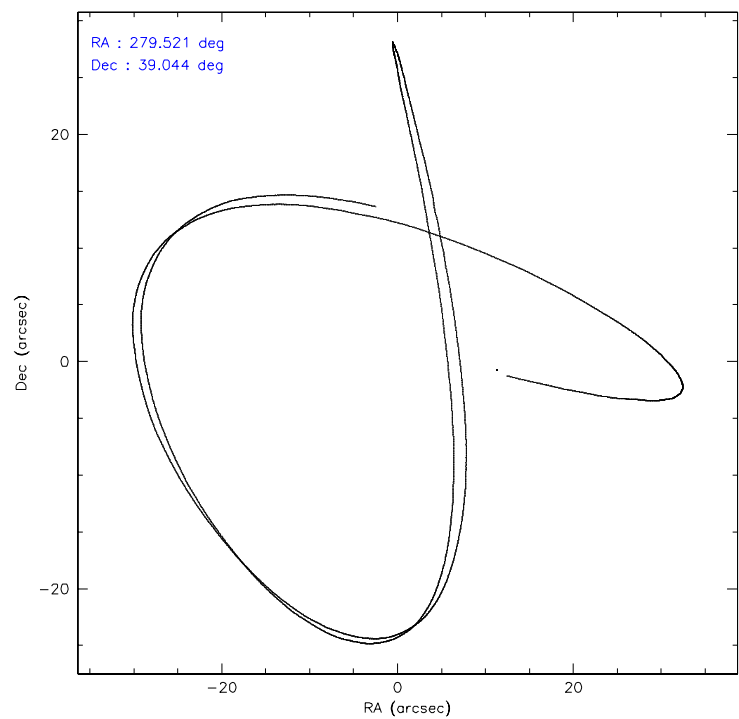
Level 1 Events

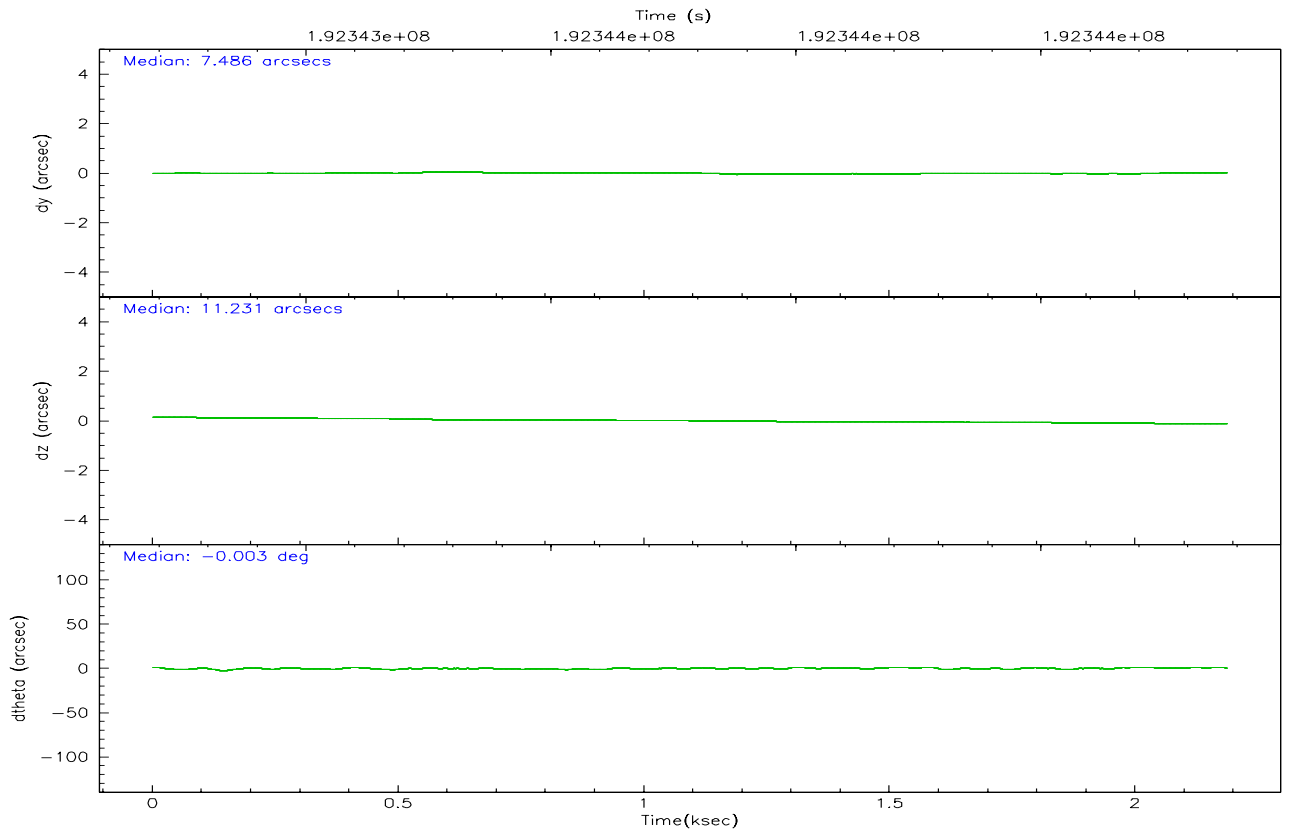
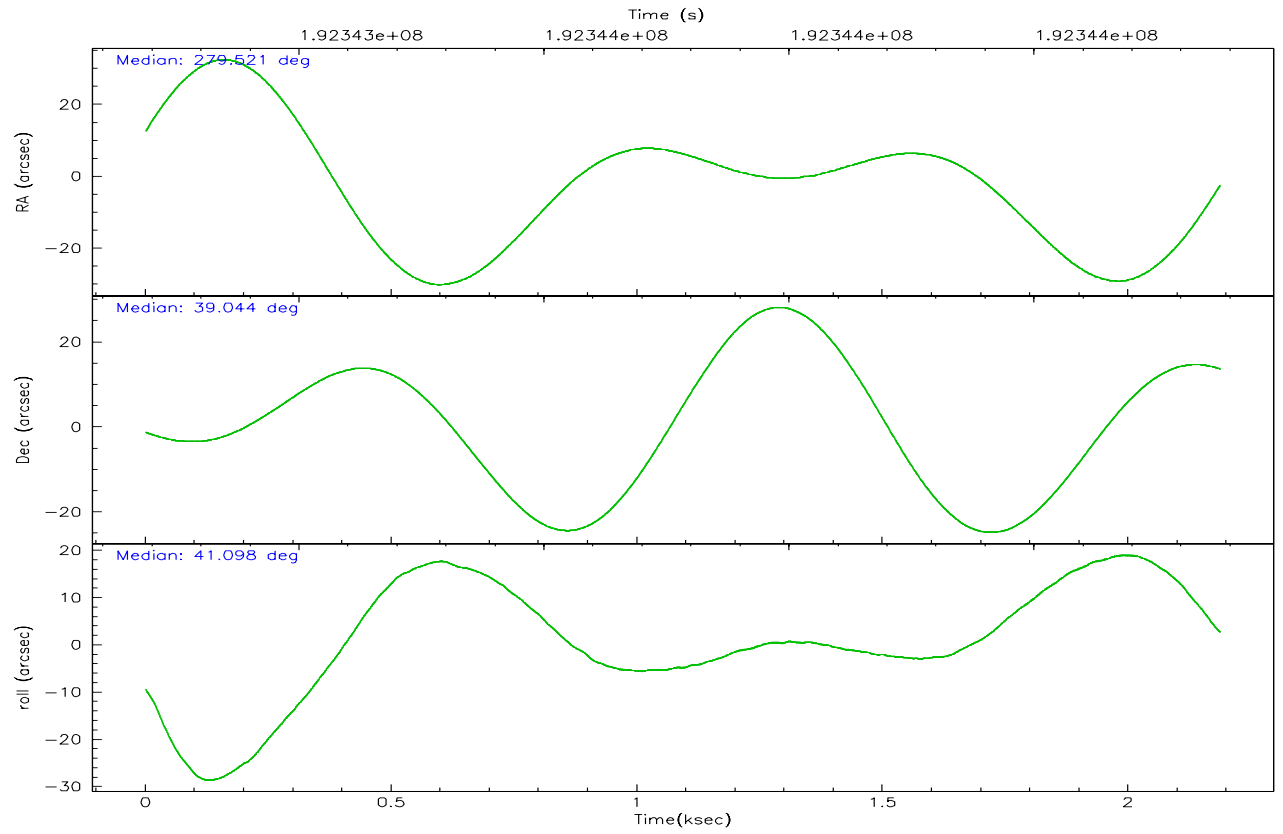
	segment 1	segment 2	segment 3
level 1 events	107078	1153	1174
rejected events	26350	1126	1174
rejected %	24%	97%	100%

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	279.509911	279.5200756820979			
Pointing Dec	39.016159	39.04365929019706			
Pointing Roll	41.039094	41.10000706890308			
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	192342876.184000	192342500.60552			
Observation start date	2004-02-05T04:33:32	2004-02-05T04:28:20			
Observation end time	192344876.184000	192345121.01813			
Observation end date	2004-02-05T05:06:52	2004-02-05T05:12:01			

2.3 Aspect



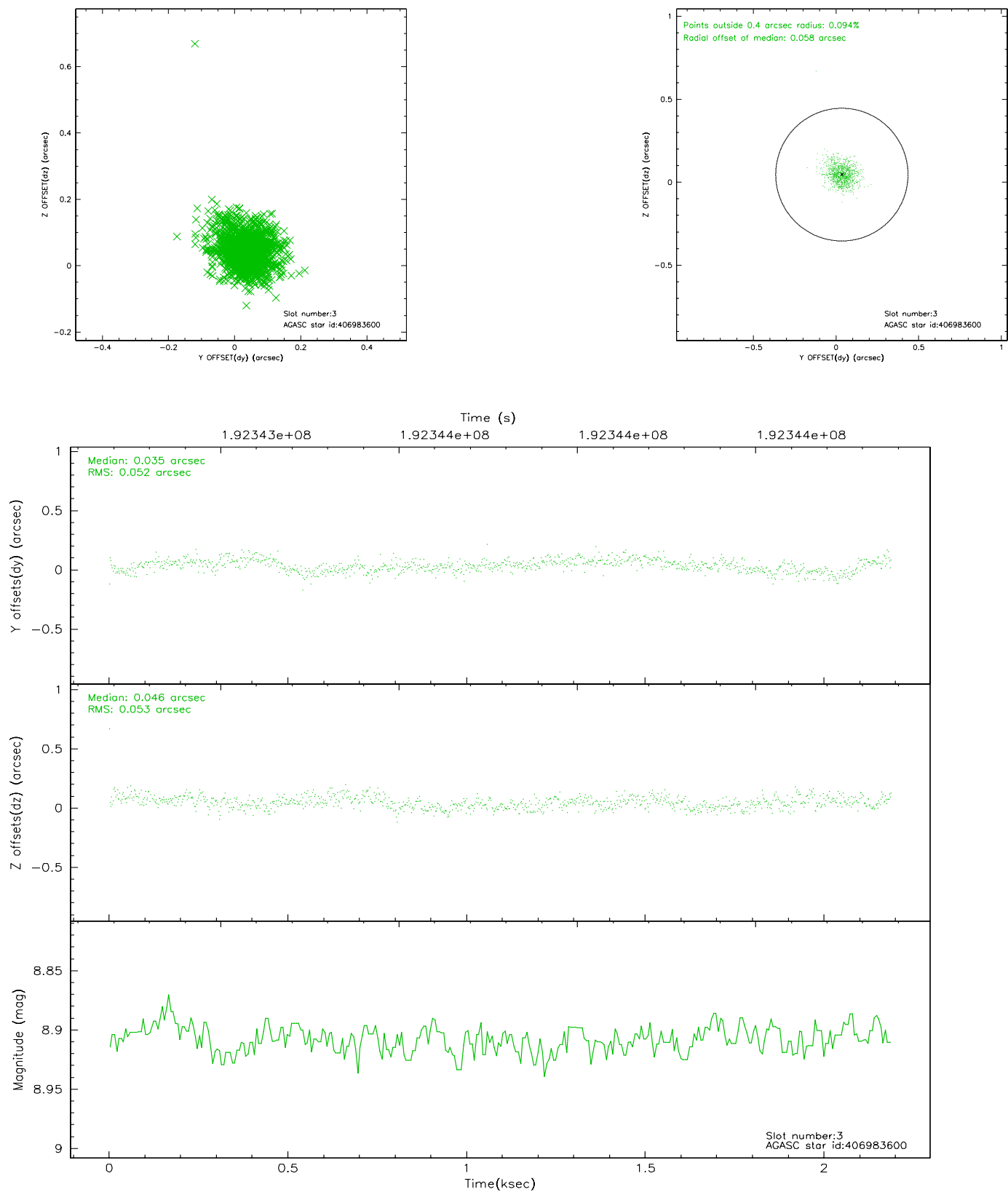


Slot Statistics

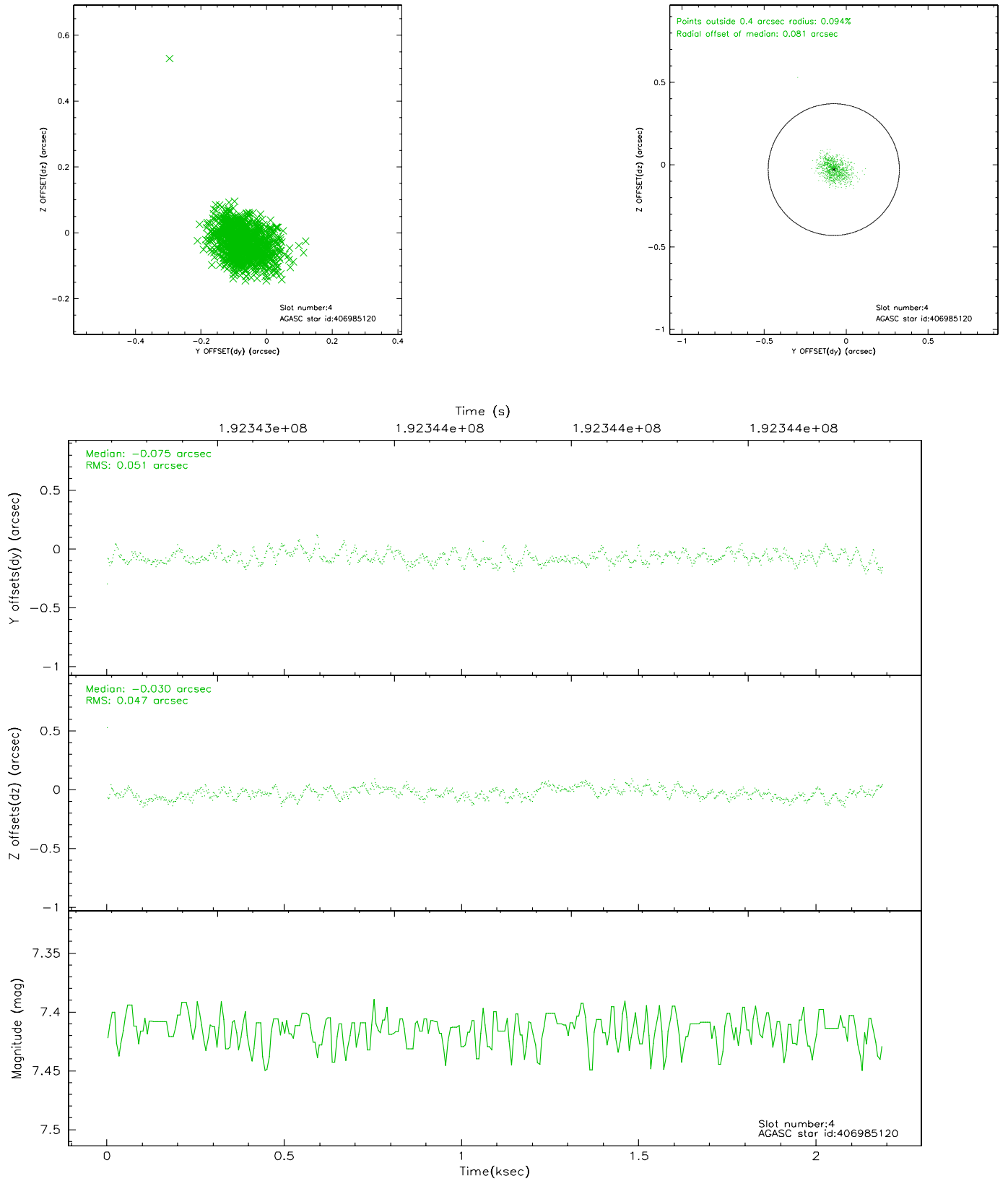
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.02	534	0.123	-0.151	0.008	0.012	0.000000	0.000000	-1161.65	-459.95
1	FID	HRC-S-2	7.02	534	0.160	-0.110	0.005	0.010	0.000000	0.000000	1235.89	-453.42
2	FID	HRC-S-3	7.04	534	0.108	-0.041	0.007	0.013	0.000000	0.000000	-1162.07	568.85
3	GUIDE	406983600	8.91	1066	0.035	0.046	0.076	0.124	279.940957	39.020708	922.15	-777.42
4	GUIDE	406985120	7.41	1068	-0.075	-0.030	0.070	0.116	278.839732	38.894839	-1697.75	907.97
5	GUIDE	406989616	8.23	1068	0.029	0.072	0.066	0.103	279.202881	38.520843	-1823.58	-775.12
6	GUIDE	407521232	8.64	1068	0.067	-0.058	0.068	0.115	279.628883	39.431715	1230.27	910.72
7	GUIDE	407521584	8.94	1066	-0.062	-0.027	0.077	0.125	279.676096	39.795417	2189.98	1815.48

2.4 Star Slots

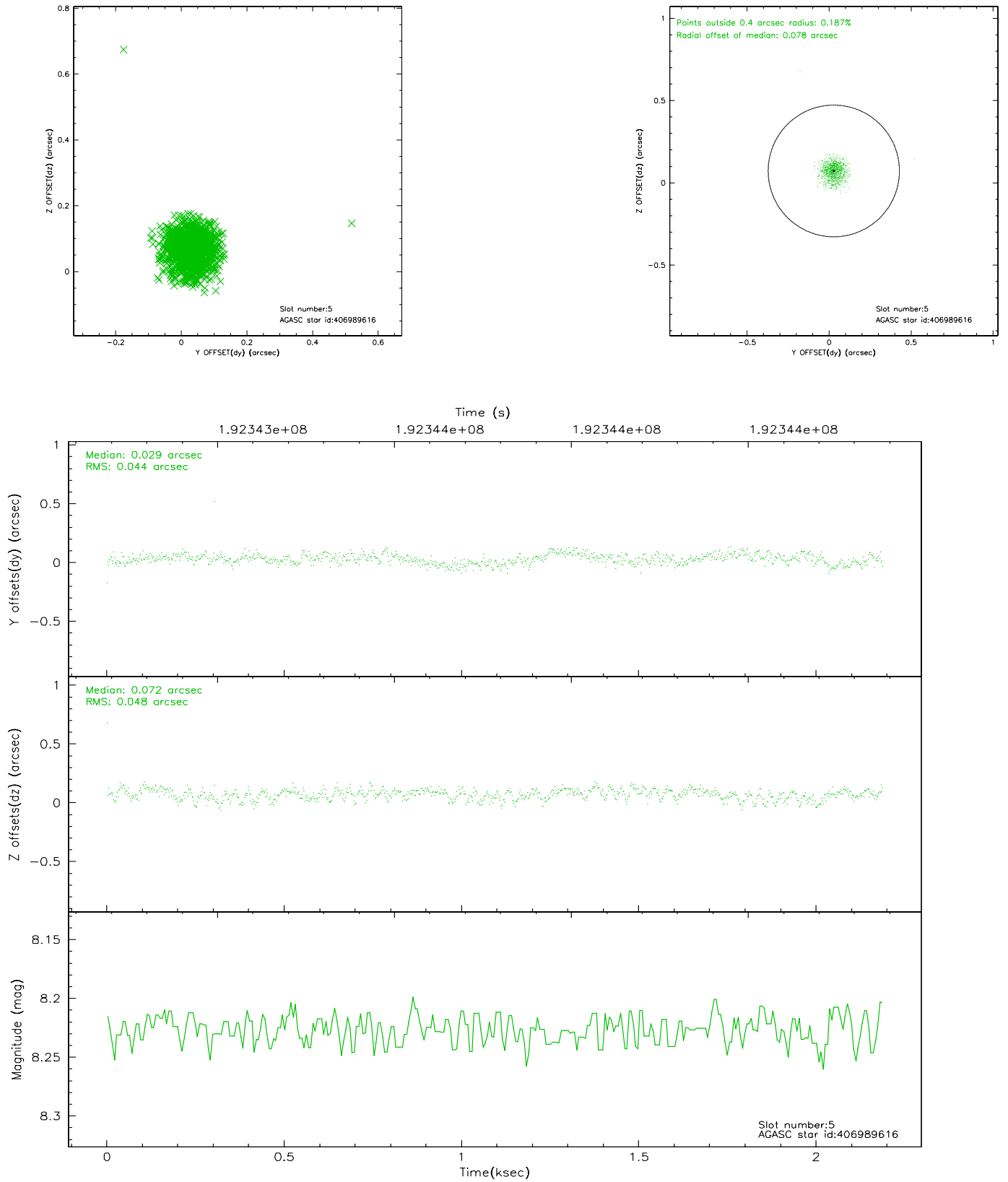
2.4.1 Slot 3



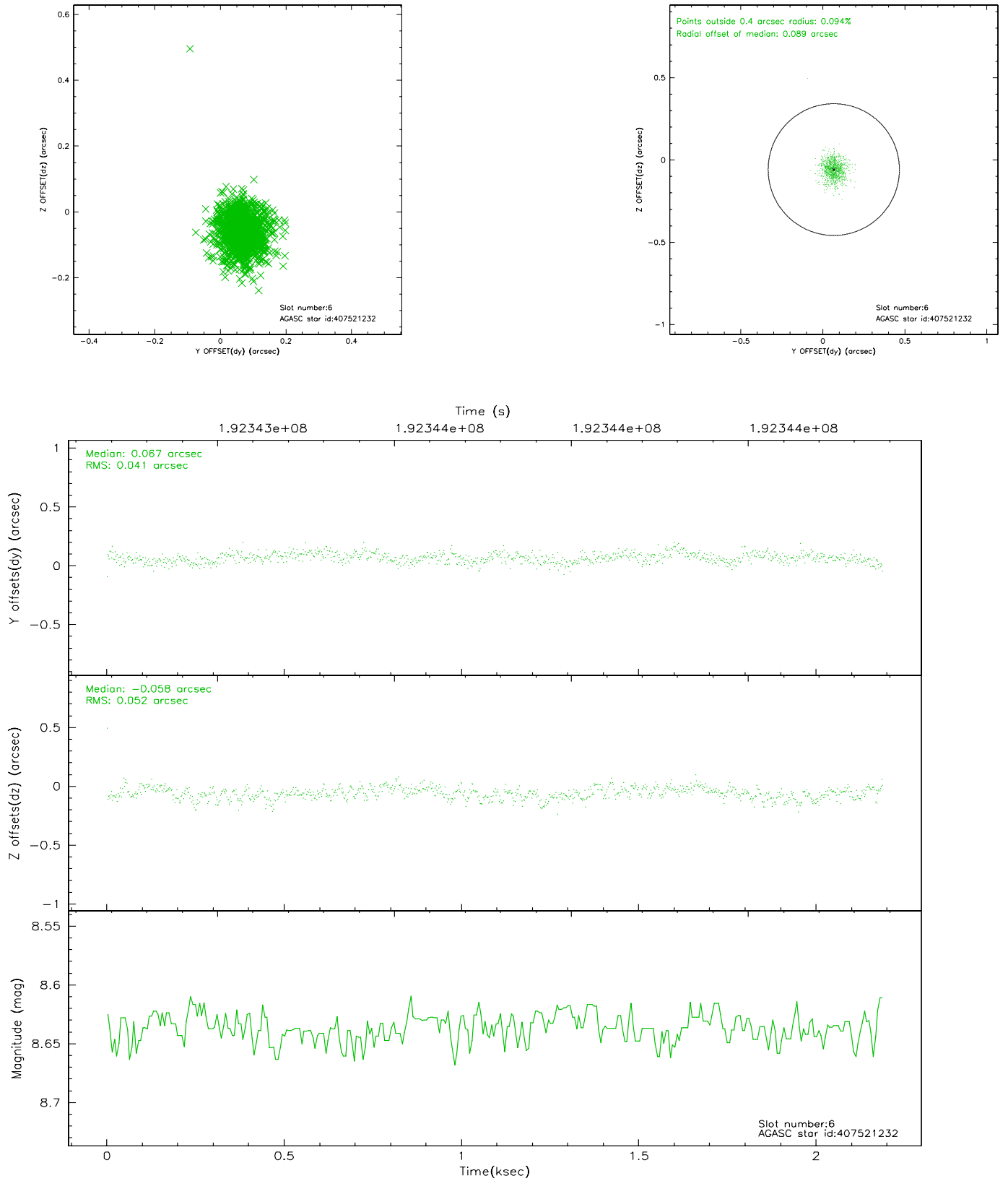
2.4.2 Slot 4



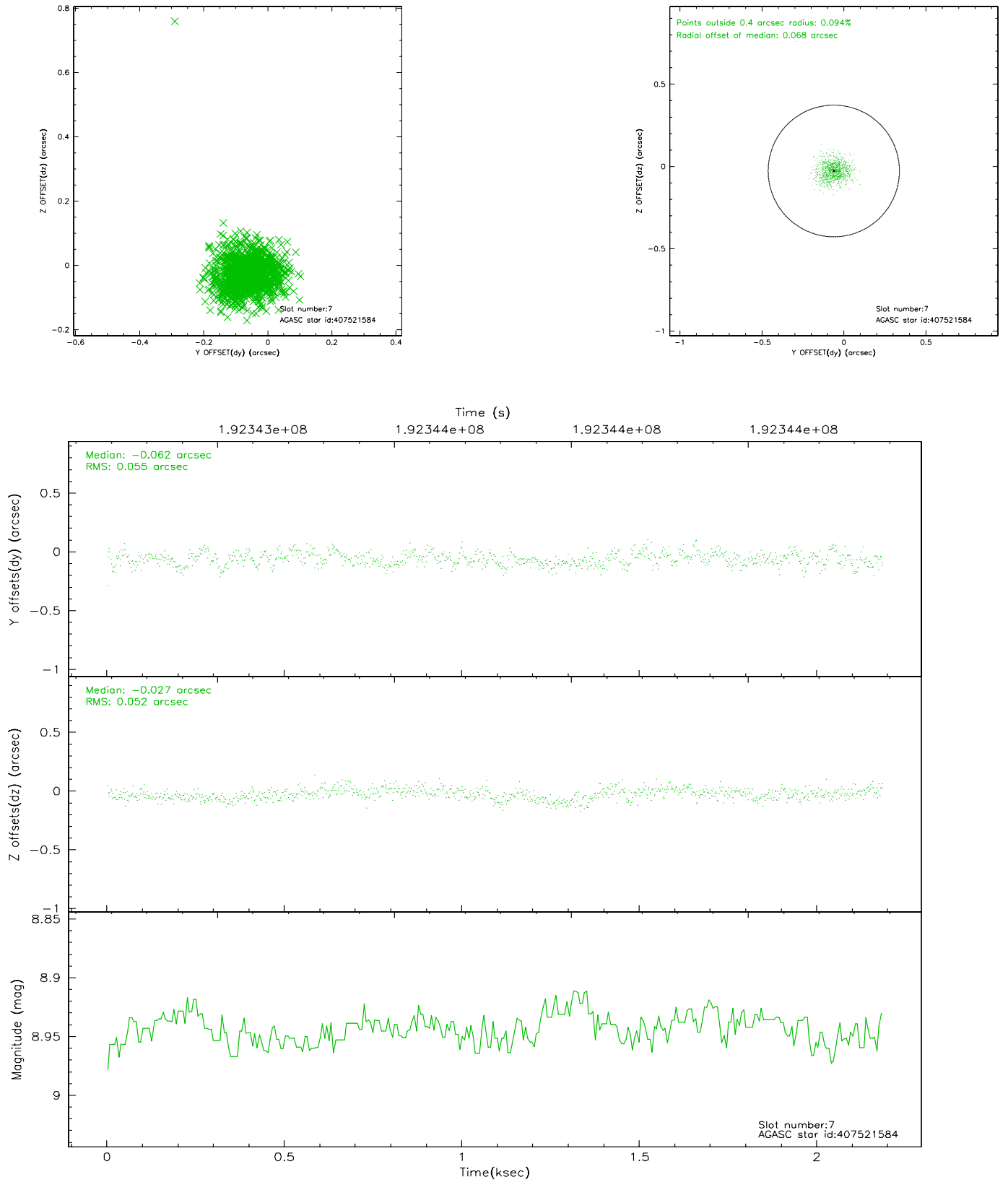
2.4.3 Slot 5



2.4.4 Slot 6

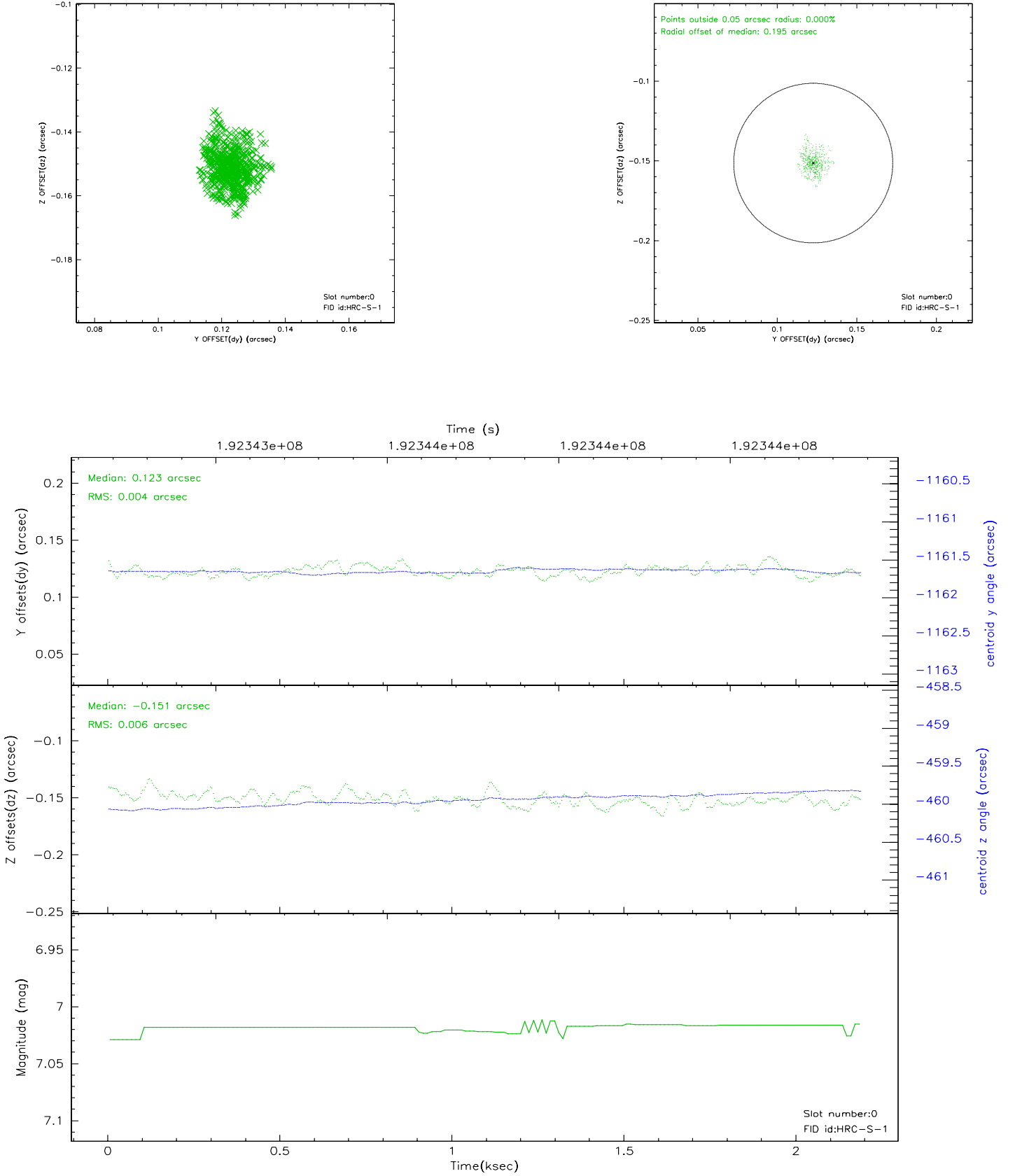


2.4.5 Slot 7

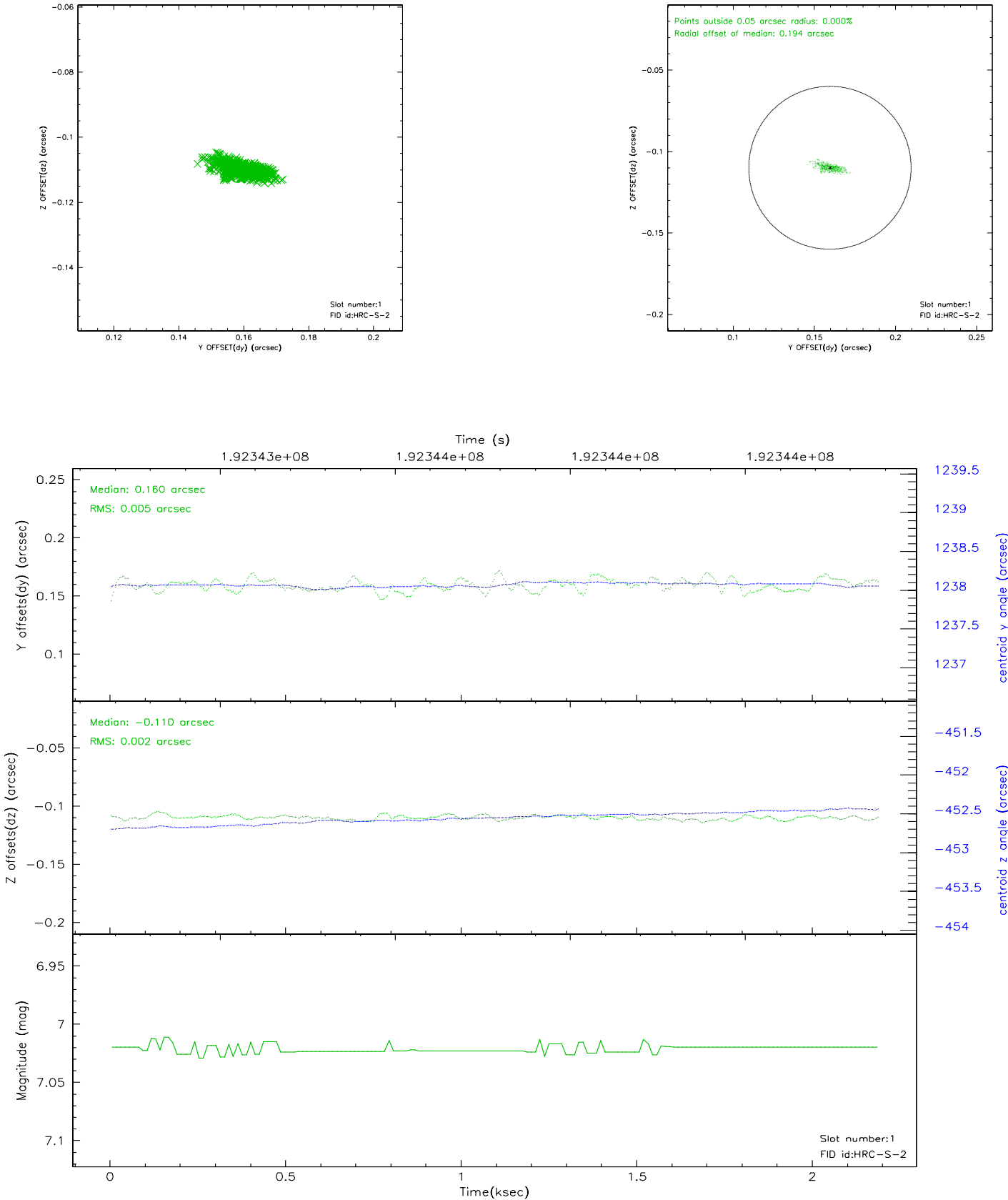


2.5 FID Slots

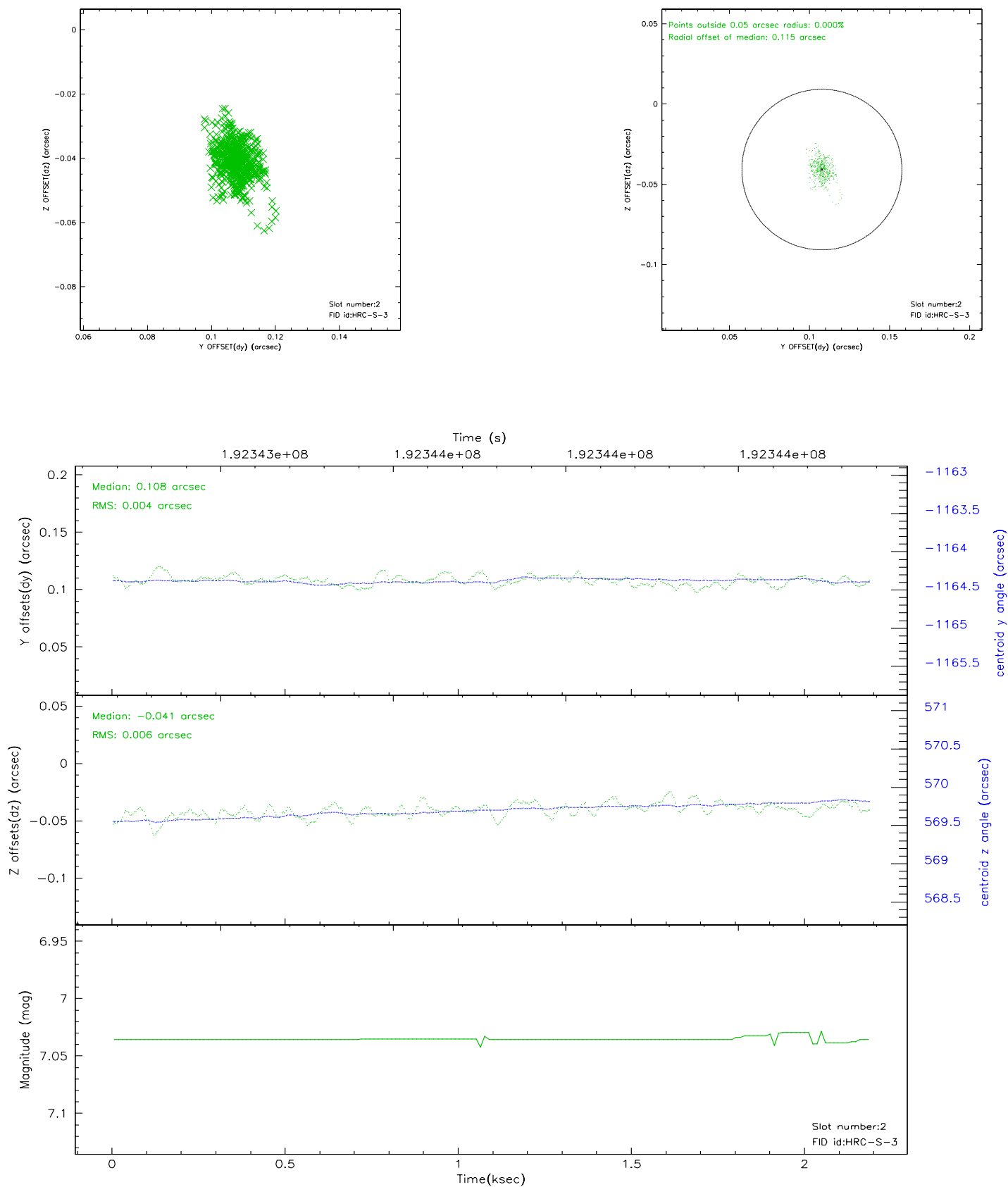
2.5.1 Slot 0



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	2.142

A.2 Comments

Window constraint met.

The chip and source are far off-axis, causing the source to be asymmetric and extended, and 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.