

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 3691 - L2 Version 3
Chandra X-Ray Center

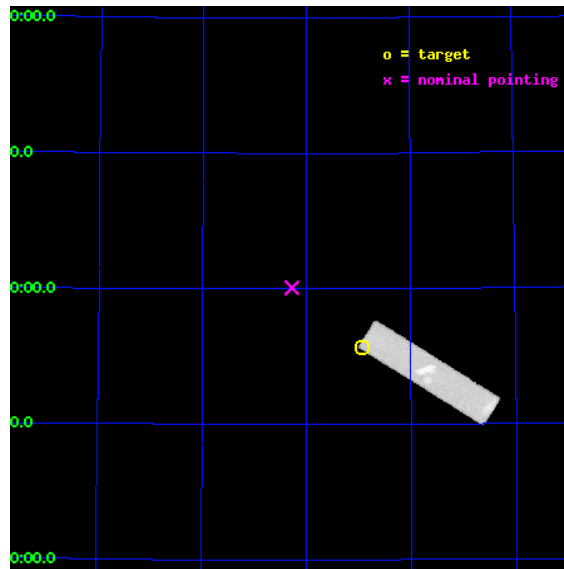
L2 Processing Date : Oct 21 2012

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1 Front

seq_num	290245	Sequence number
obs_id	3691	Observation id
title	AO4 MEASUREMENTS OF THE OPTICAL/UV TRANSMISSION OF THE HRC AND ACIS FILTERS	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	VEGA	Source name
ra_targ	279.235	Observer's specified target RA [deg]
dec_targ	38.783778	Observer's specified target Dec [deg]
ra_nom	279.57084805908	Nominal RA [deg]
dec_nom	39.003799440521	Nominal Dec [deg]
roll_nom	31.631701567095	Nominal Roll [deg]
revision	3	Processing version of data
ontime	2143.5313398838	[s]
liveltime	2133.4000529881	Ontime multiplied by DTCOR
l2events	76329	Number of level 2 events

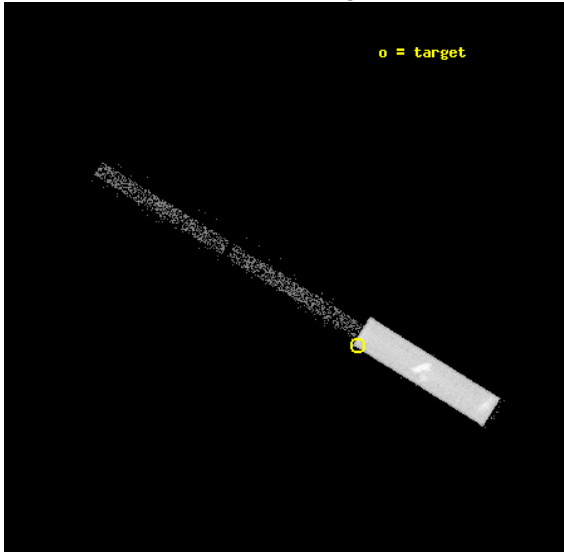


2 OBI

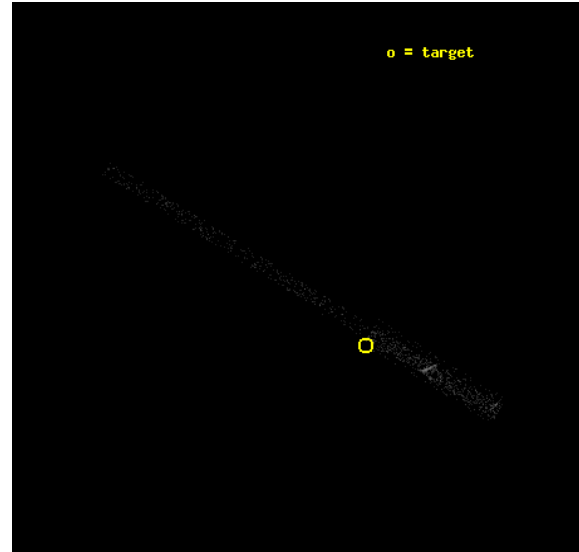
2.1 OBI

2.1.1 Images

Level 1 Image



Level 1 Bad Events



2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	2143.5313398838	[s]
caldbver	4.5.2	 	l1events	109031	Number of level 1 events
date	2012-10-21T04:52:39	Date and time of file creation			
revision	3	Processing version of data			

2.1.3 Events

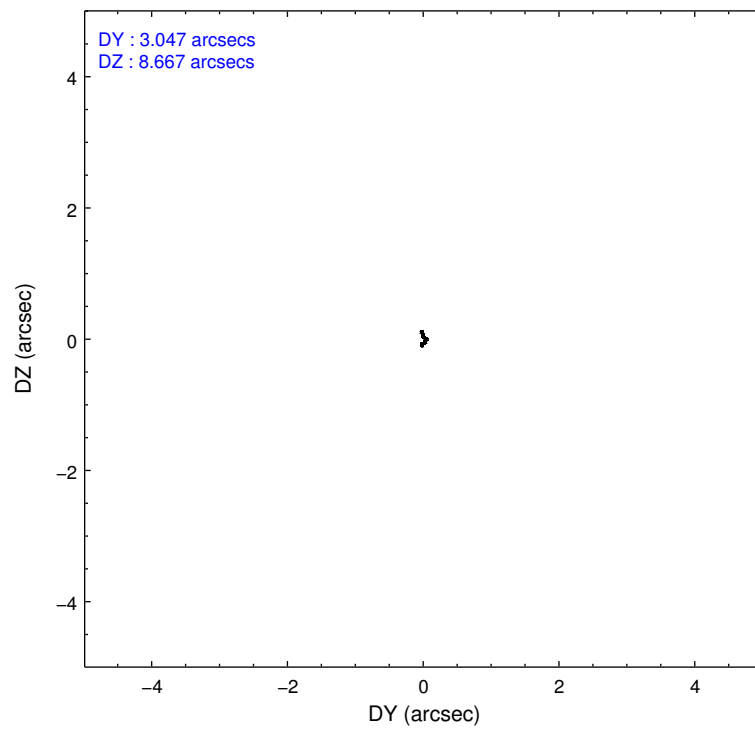
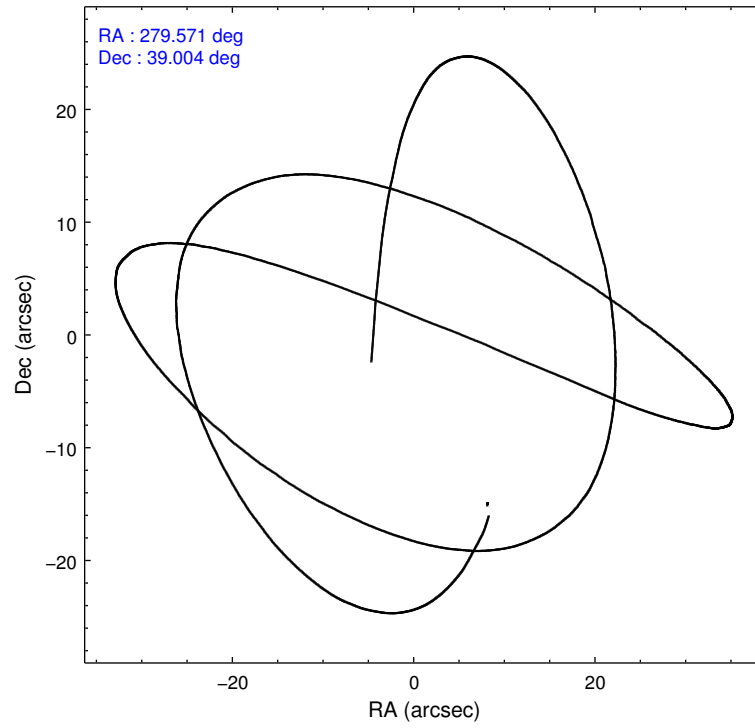
Level 1 Events

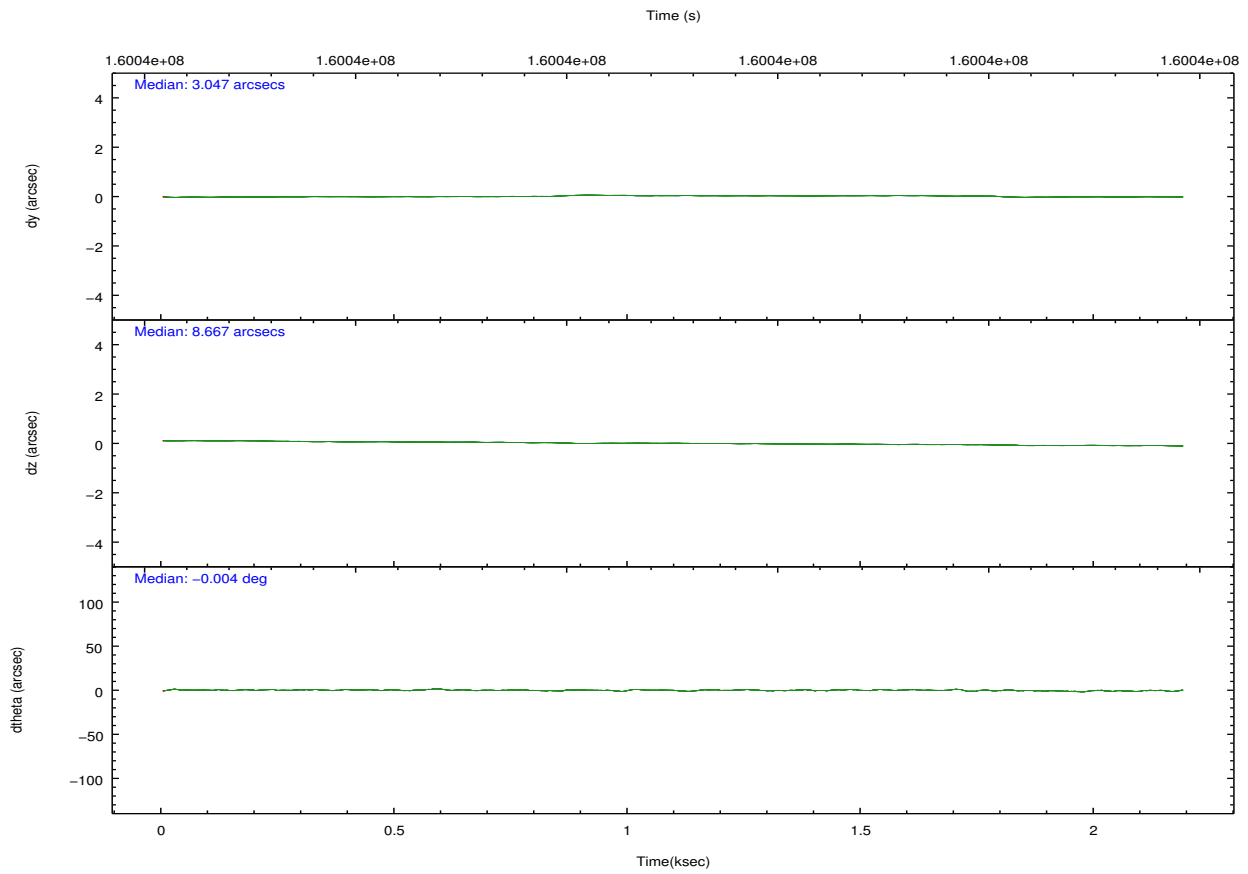
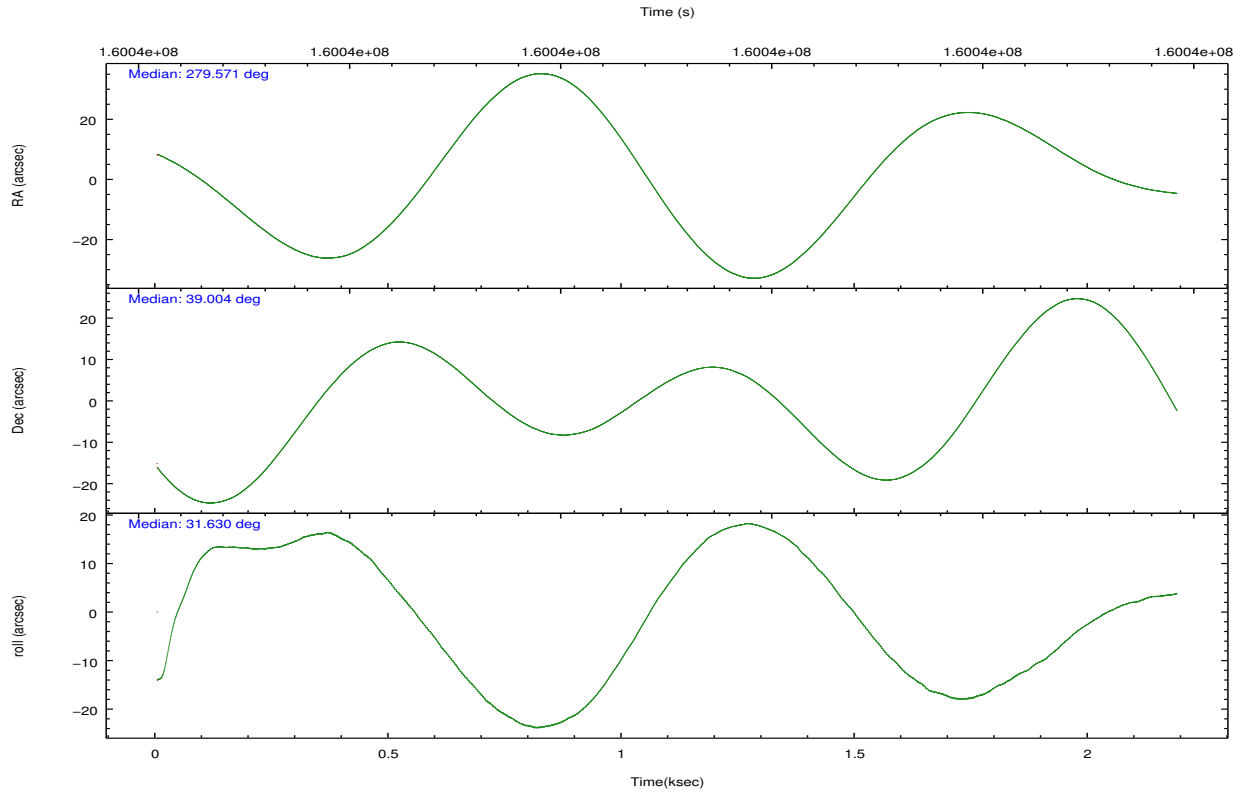
	segment 1	segment 2	segment 3
level 1 events	106799	1134	1098
rejected events	10976	1104	1098
rejected %	10%	97%	100%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
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			
[deg] Pointing RA	279.555128	279.5708480590782			
[deg] Pointing Dec	38.977884	39.00379944052081			
[deg] Pointing Roll	31.574365	31.63170156709537			
[s] Window start time (MET)	159019264.184000	159019264.184000			
[s] Window stop time (MET)	161697664.184000	161697664.184000			
[mm] SIM focus pos	-1.429586	-1.428180813131781			
[mm] SIM defocus	0.1037507710433287	0.1051558262725154			
[mm] SIM translation stage pos	250.455976	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	160038849.184000	160038473.14985			
Observation start date	2003-01-27T07:13:05	2003-01-27T07:07:53			
[s] Observation end time (MET)	160040849.184000	160041103.81246			
Observation end date	2003-01-27T07:46:25	2003-01-27T07:51:43			

2.3 Aspect



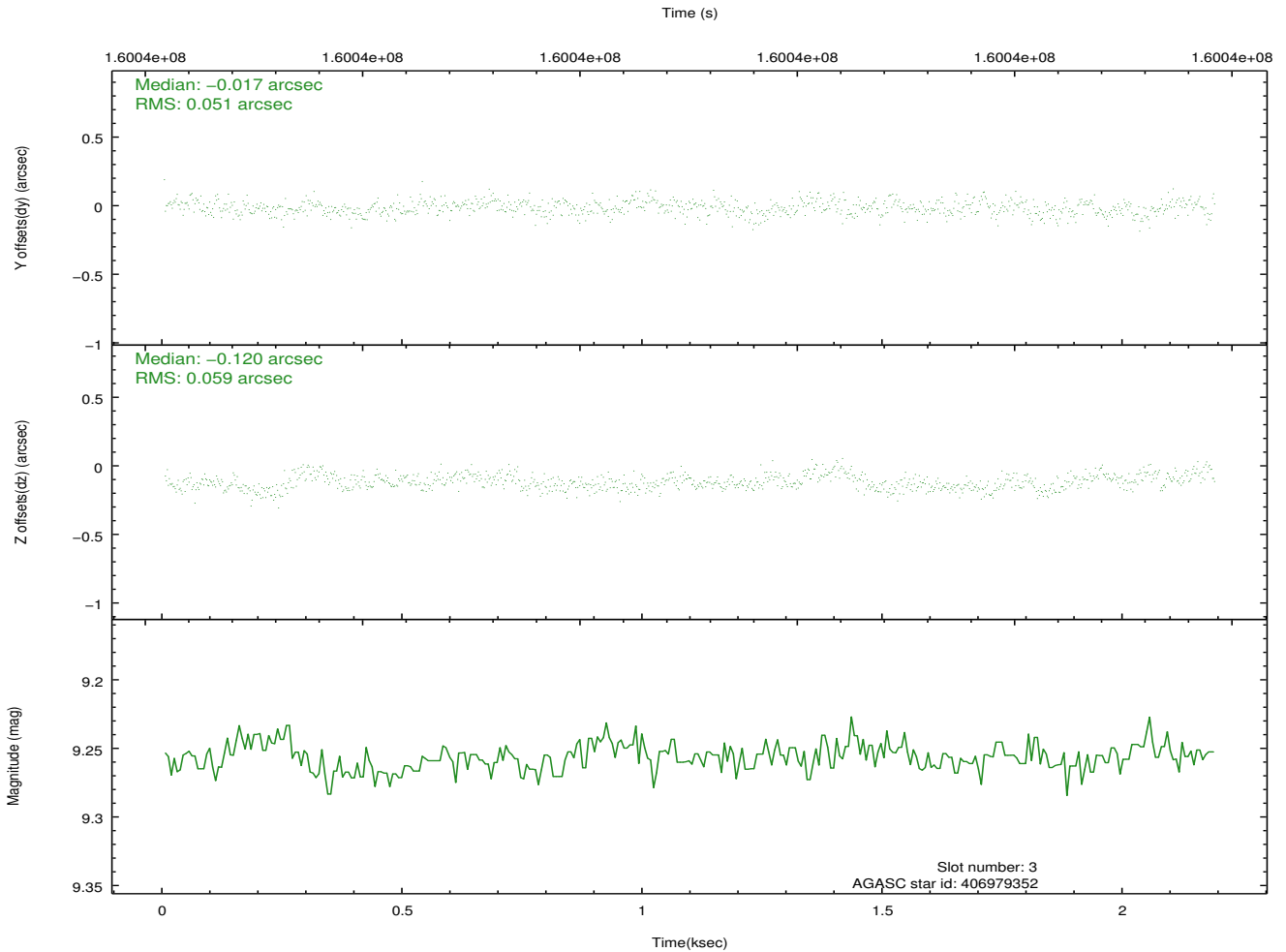
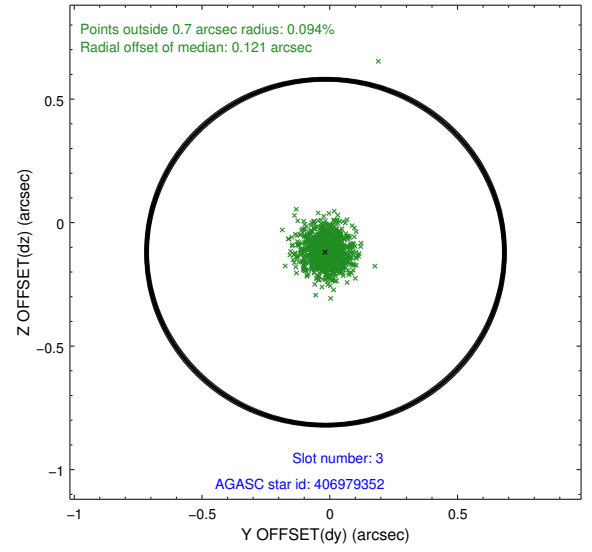
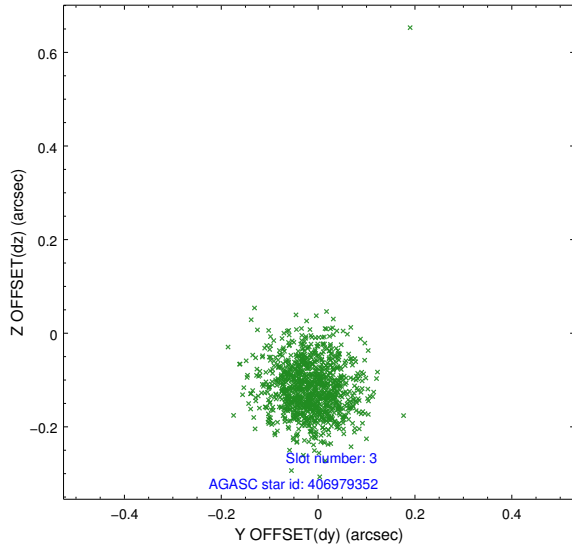


Slot Statistics

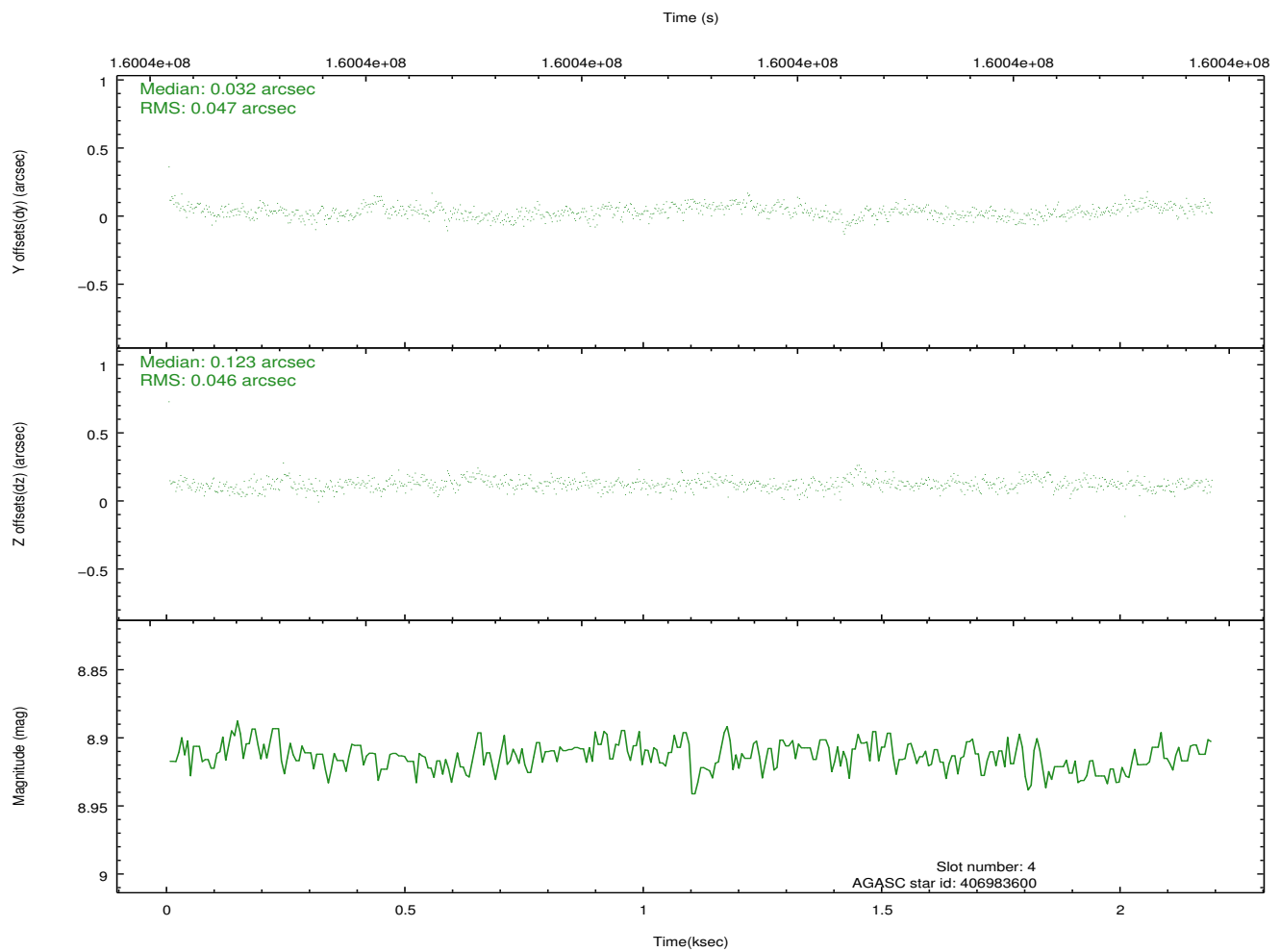
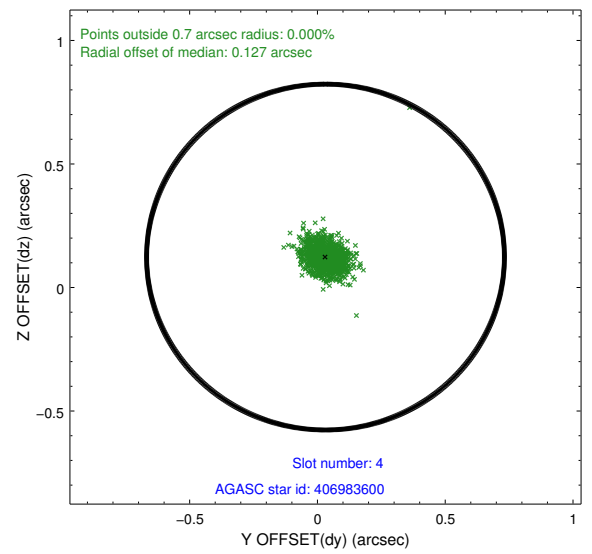
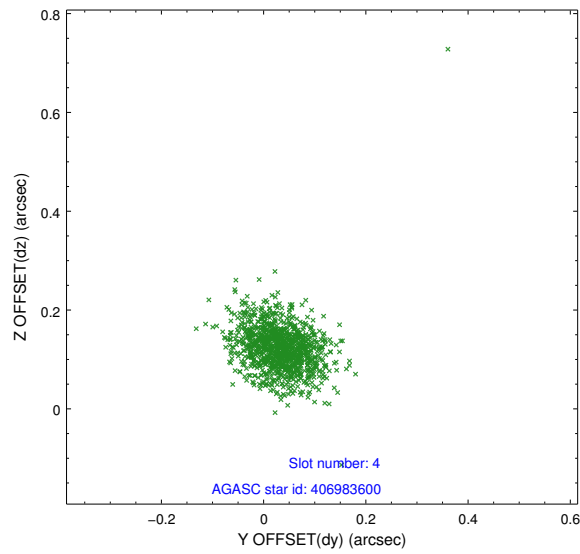
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.03	534	0.158	-0.132	0.007	0.012	0.000000	0.000000	-1157.06	-457.28
1	FID	HRC-S-2	7.02	534	0.087	-0.094	0.005	0.009	0.000000	0.000000	1240.38	-450.73
2	FID	HRC-S-3	7.05	534	0.145	-0.076	0.008	0.014	0.000000	0.000000	-1157.48	571.46
3	GUIDE	406979352	9.26	1067	-0.017	-0.120	0.078	0.131	279.968297	39.230258	1458.66	172.12
4	GUIDE	406983600	8.91	1065	0.032	0.123	0.066	0.107	279.940957	39.020708	1002.95	-432.13
5	GUIDE	406985120	7.42	1068	-0.010	-0.029	0.073	0.118	278.839732	38.894839	-1859.06	800.69
6	GUIDE	406989616	8.23	1068	0.062	0.083	0.063	0.105	279.202881	38.520843	-1707.27	-880.27
7	GUIDE	407521584	8.95	1061	-0.065	-0.057	0.086	0.131	279.676096	39.795417	1824.73	2331.13

2.4 Star Slots

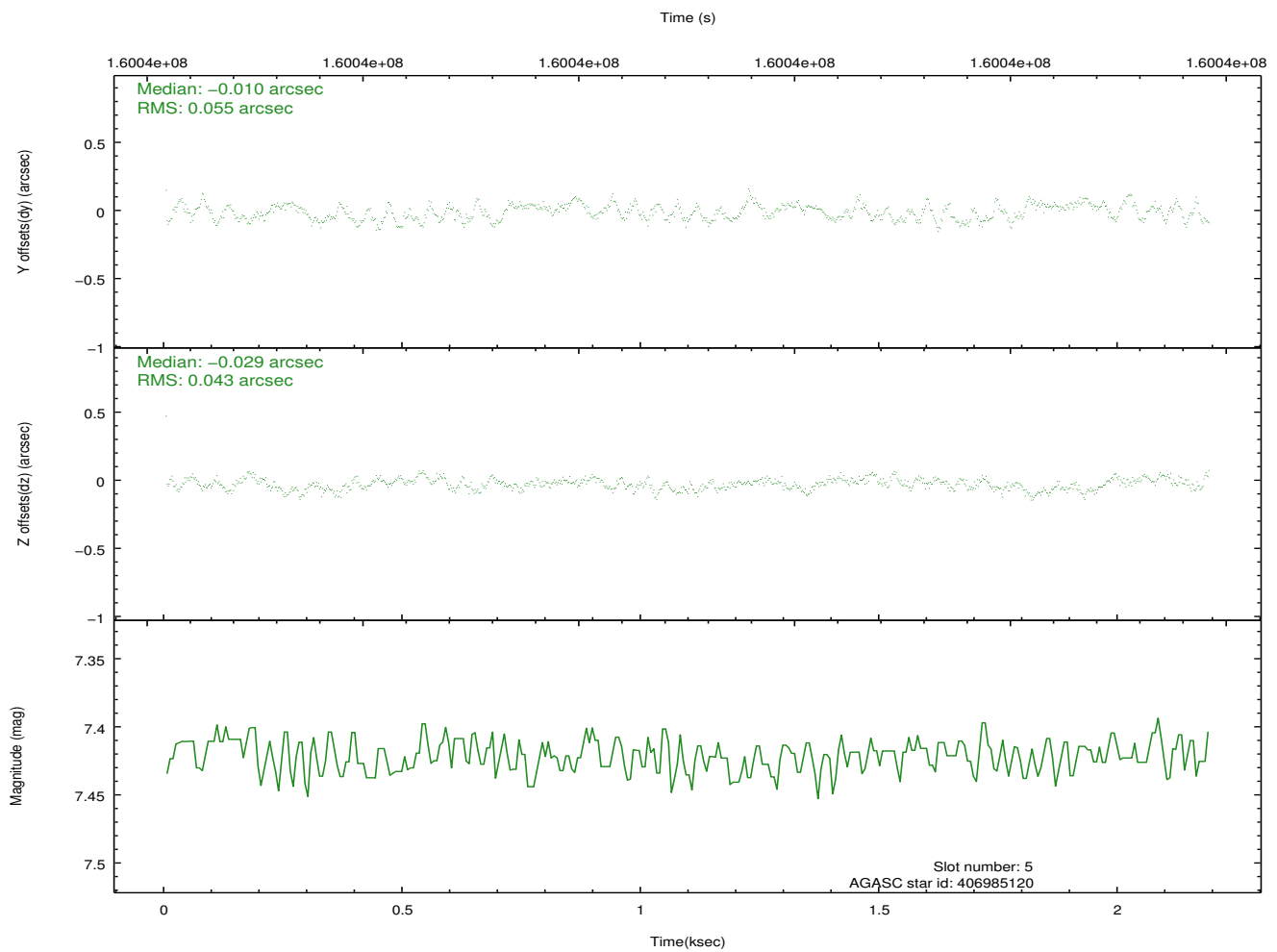
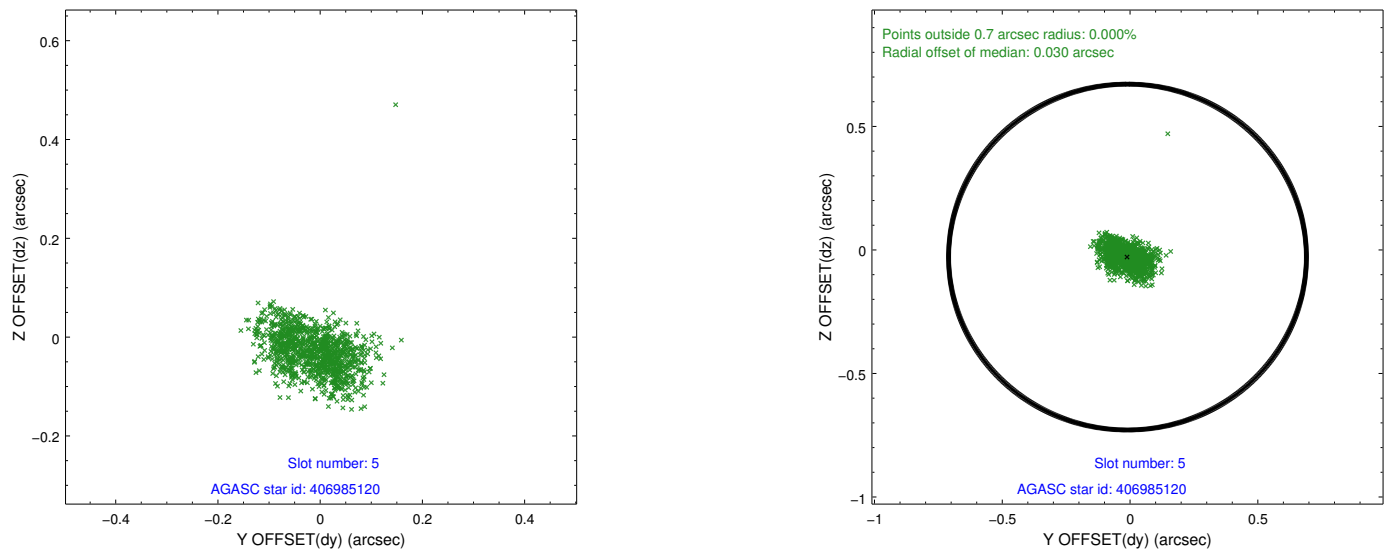
2.4.1 Slot 3



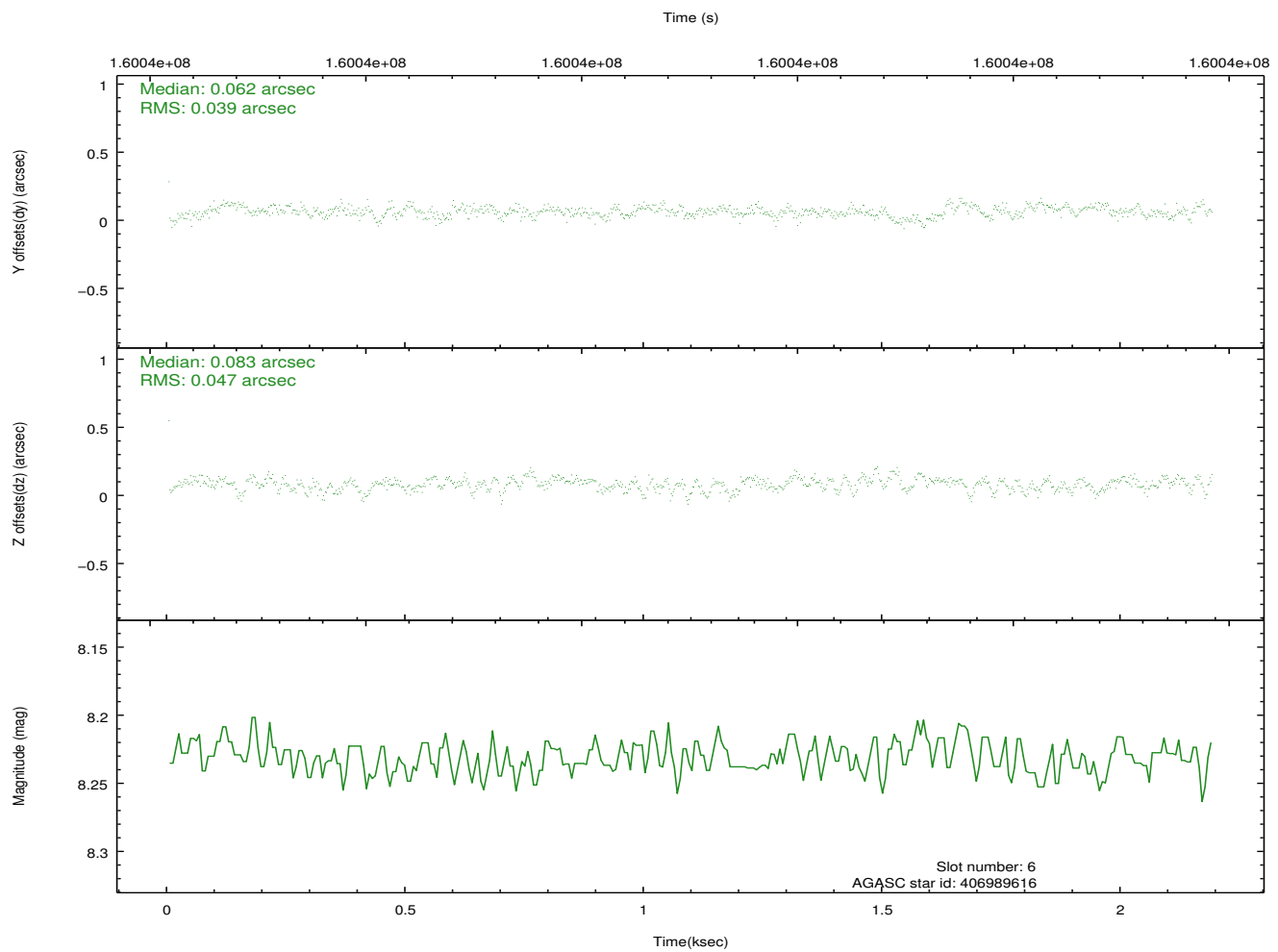
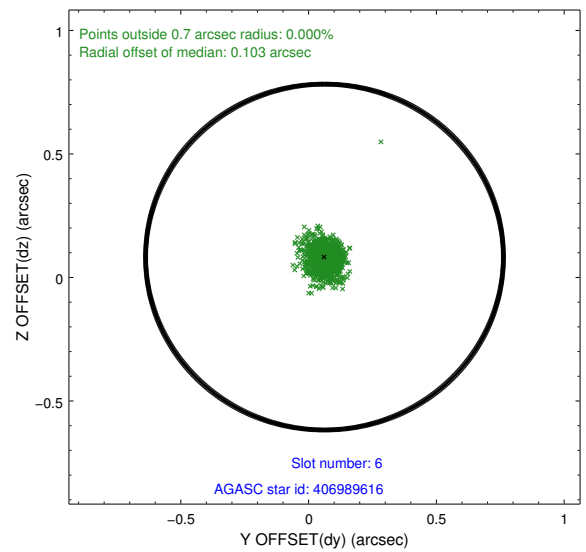
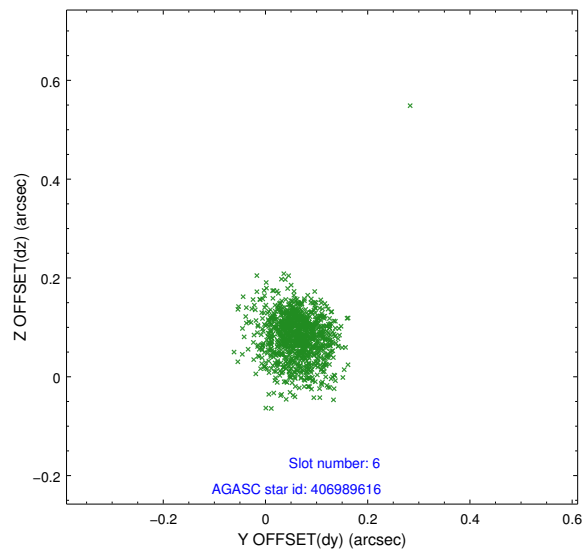
2.4.2 Slot 4



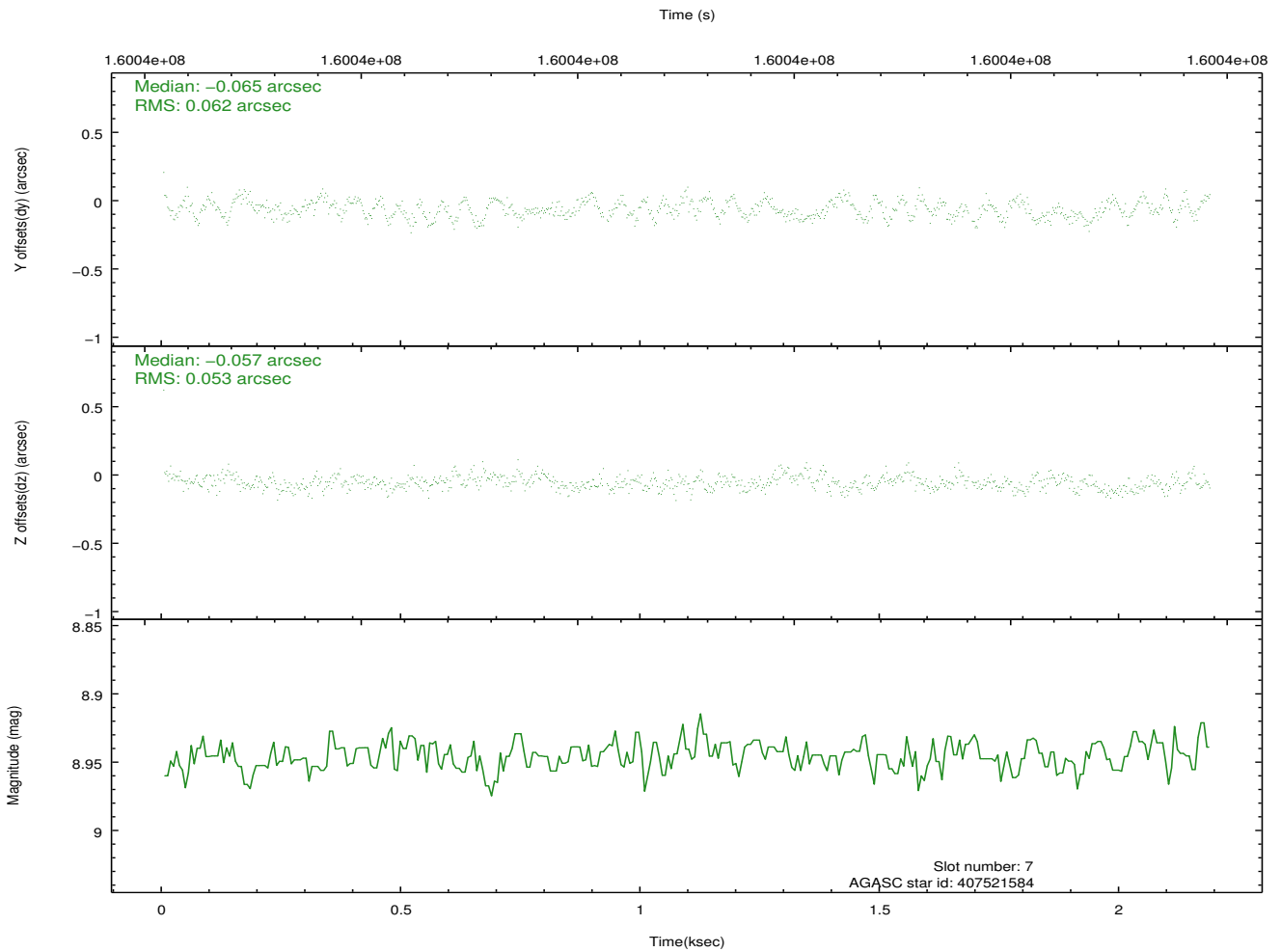
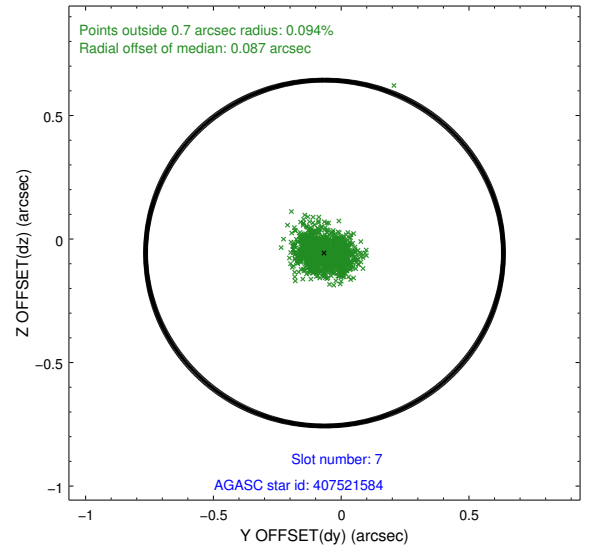
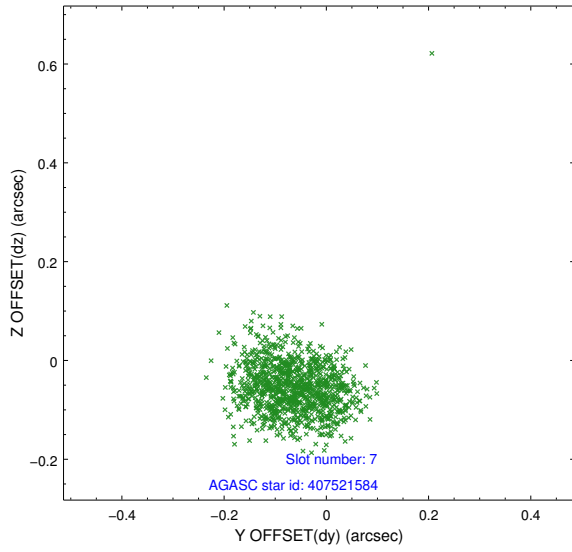
2.4.3 Slot 5



2.4.4 Slot 6

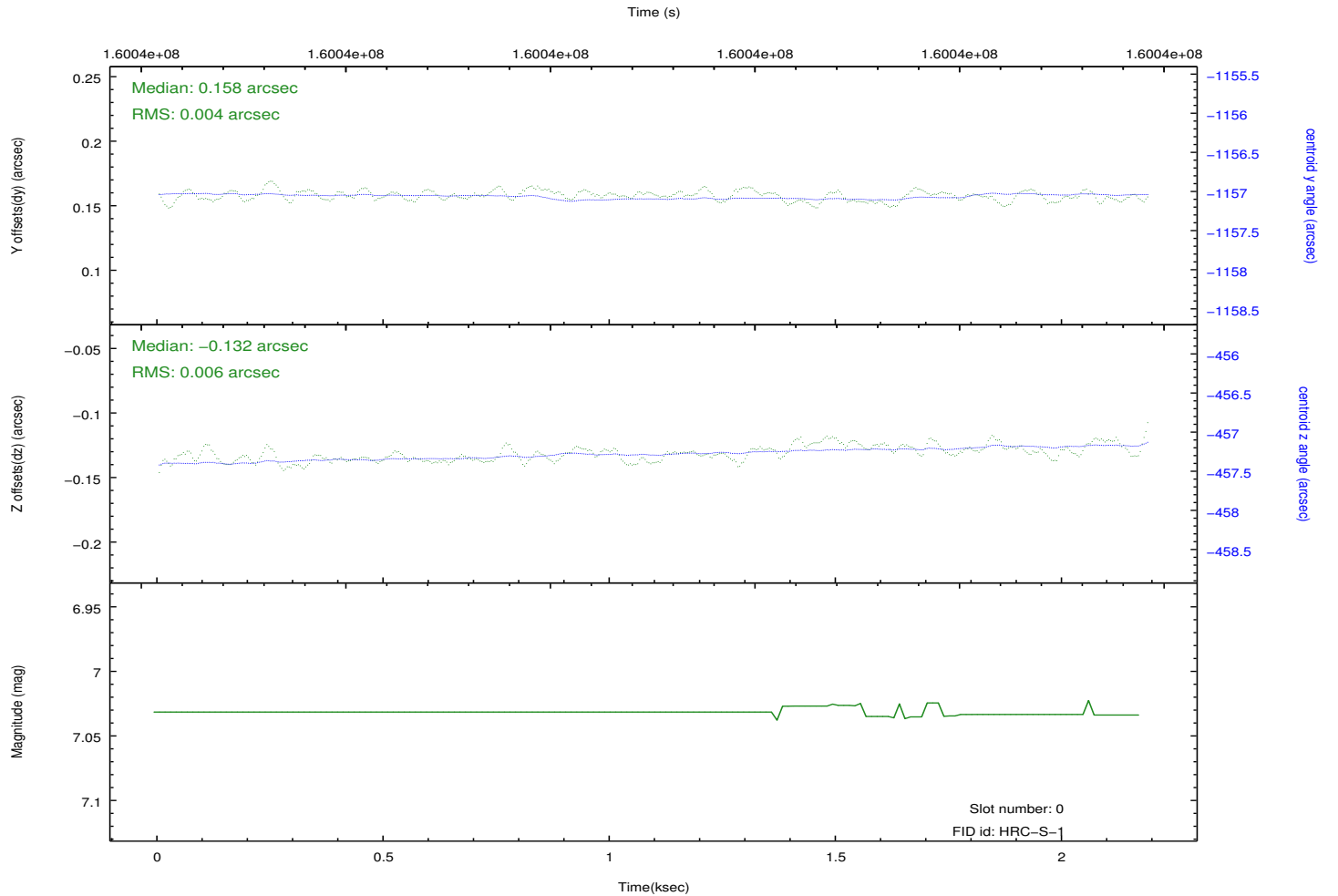
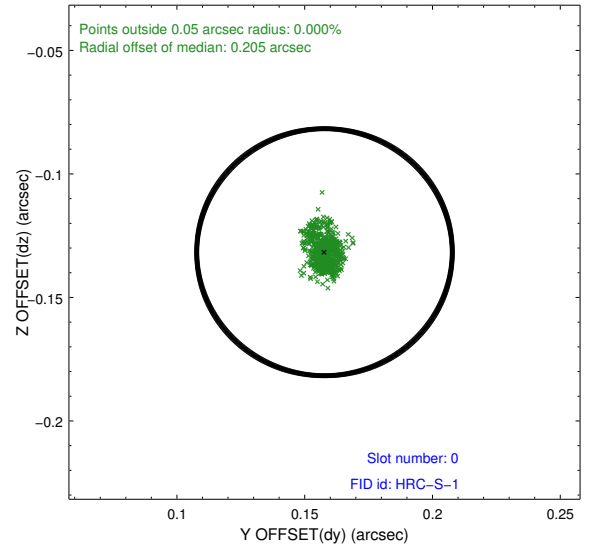
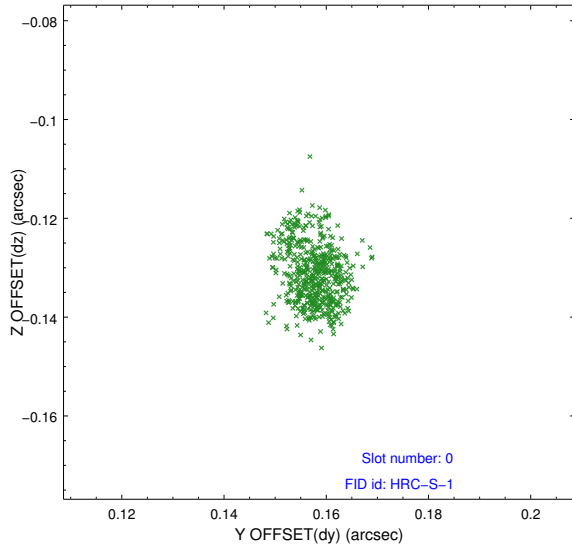


2.4.5 Slot 7

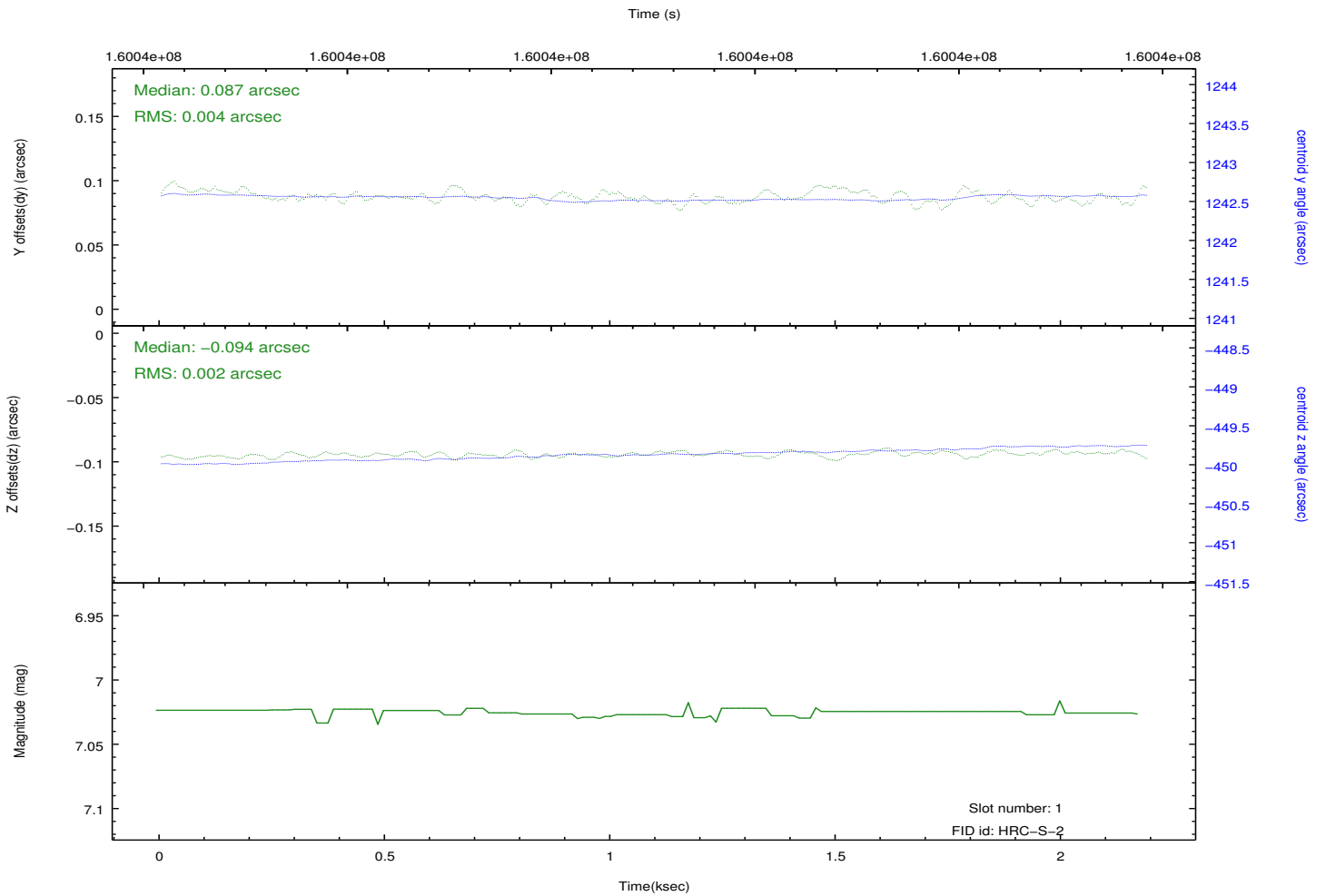
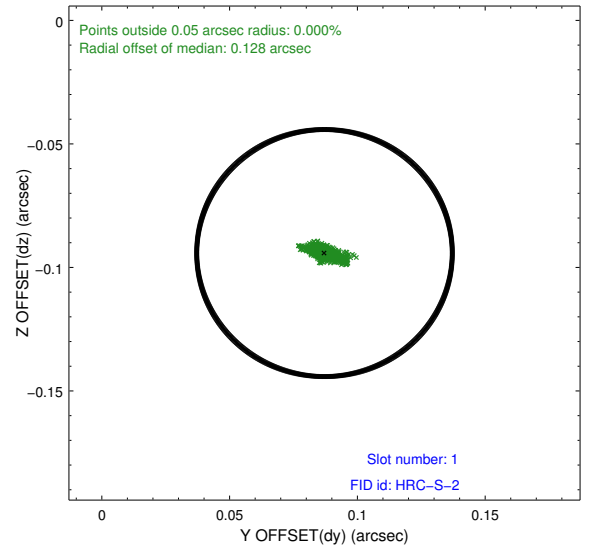
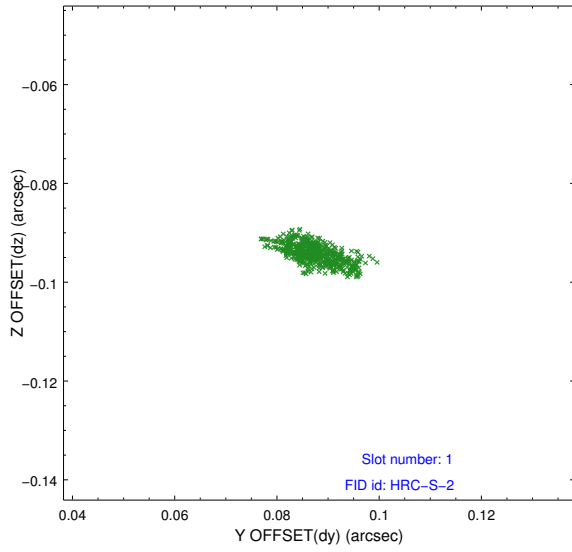


2.5 FID Slots

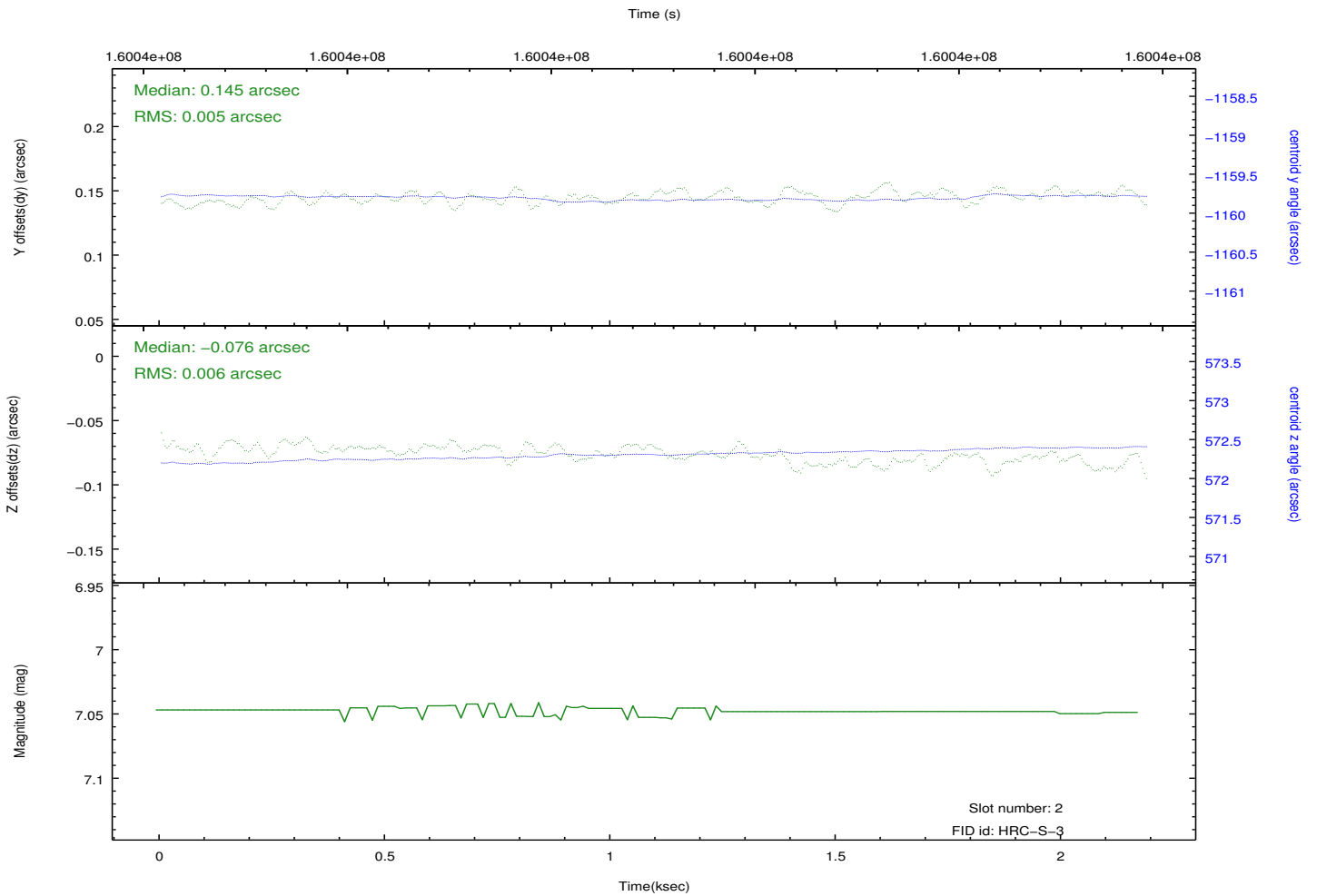
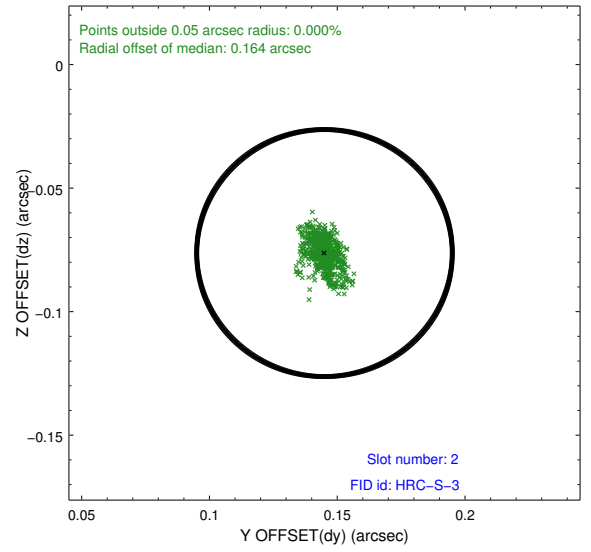
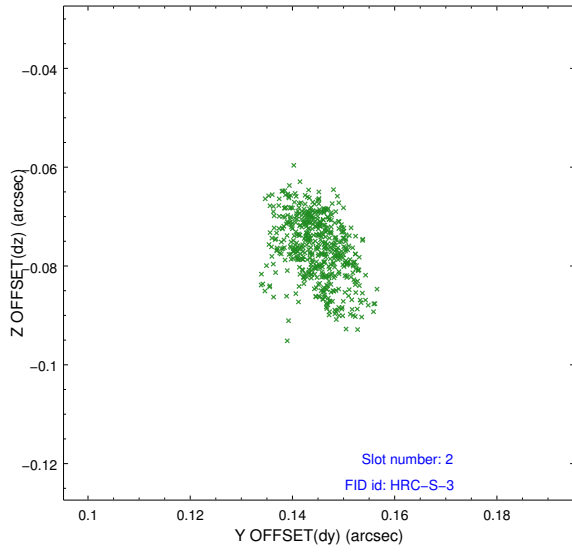
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.11.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.143

A.2 Comments

Window constraint met. The detector is far off-axis. The source is also very near the edge of the chip. Internal reflections from the telescope also fall onto the chip.