

V&V Reference Report

L2 ASCDS Version : 10.2.2

Observation 16481 - L2 Version 2
Chandra X-Ray Center

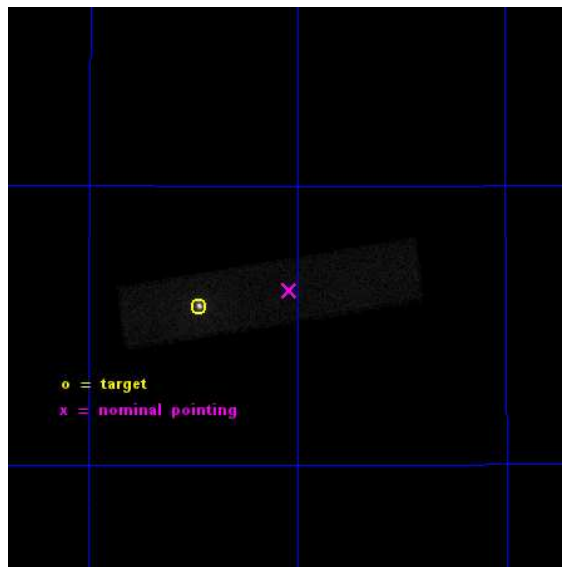
L2 Processing Date : Dec 11 2014

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Parameters	4
2.1.3	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

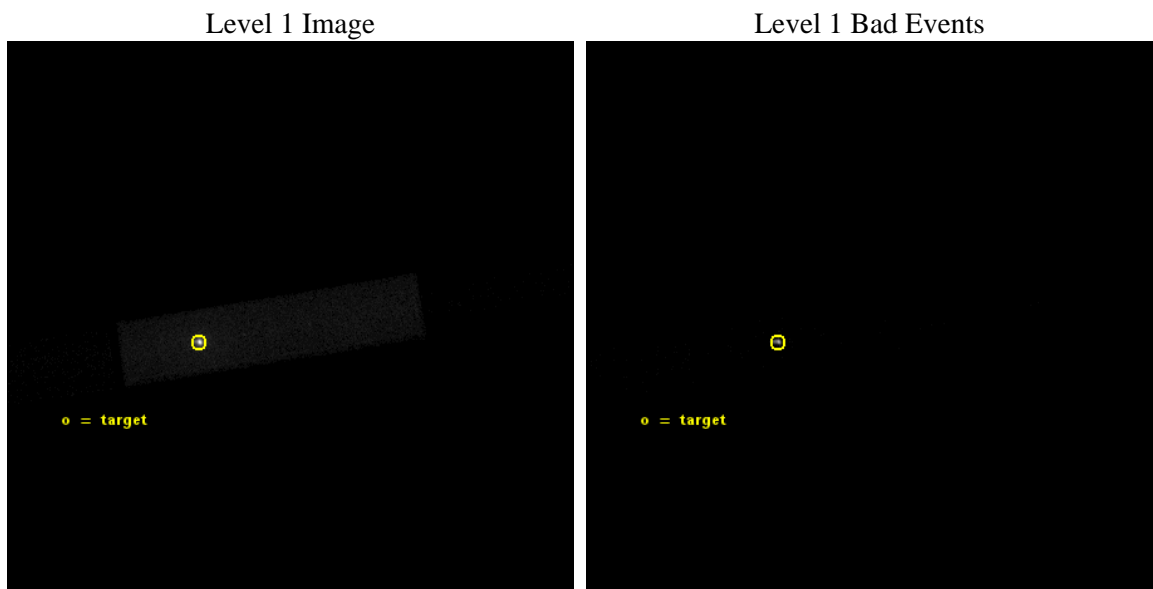
seq_num	291193	Sequence number
obs_id	16481	Observation id
title	AO-15 Measurements of the optical/UV Transmission of the HRC Filters.	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	Vega	Source name
ra_targ	279.235833	Observer's specified target RA [deg]
dec_targ	38.78475	Observer's specified target Dec [deg]
ra_nom	279.0190577362	Nominal RA [deg]
dec_nom	38.813161489616	Nominal Dec [deg]
roll_nom	170.94202269478	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1153.1250638366	[s]
livetime	1021.2286581677	Ontime multiplied by DTCOR
l2events	204112	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	1153.1250638366	[s]
caldbver	4.6.4	 	l1events	267562	Number of level 1 events
date	2014-12-12T01:47:45	Date and time of file creation			
revision	2	Processing version of data			

2.1.3 Events

Level 1 Events

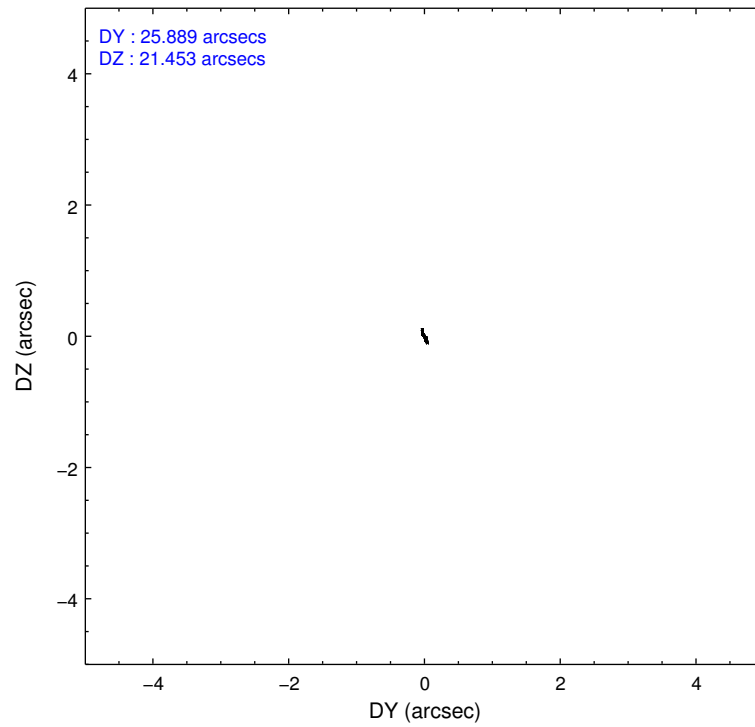
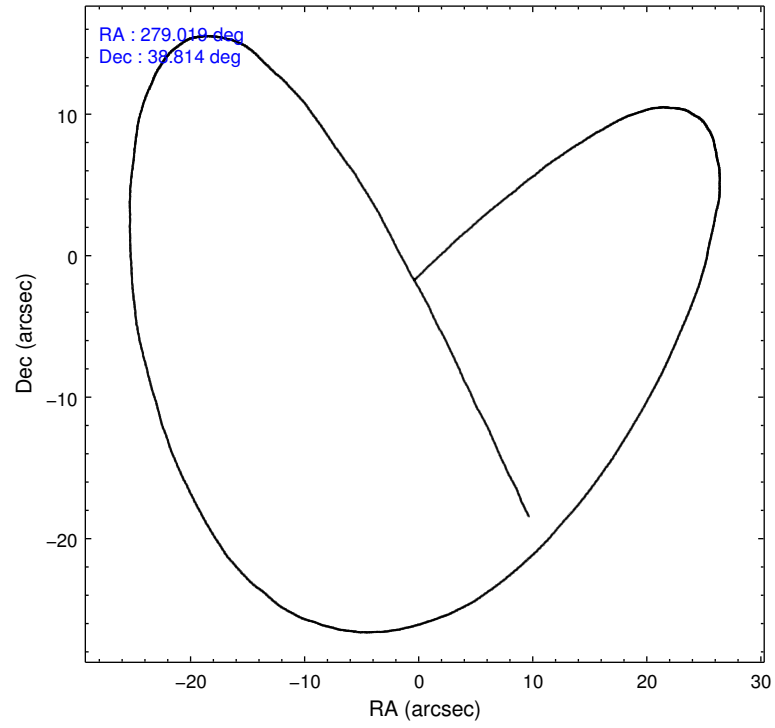
	segment 1	segment 2	segment 3
level 1 events	4670	261744	1148
rejected events	4626	49140	1127
rejected %	99%	18%	98%

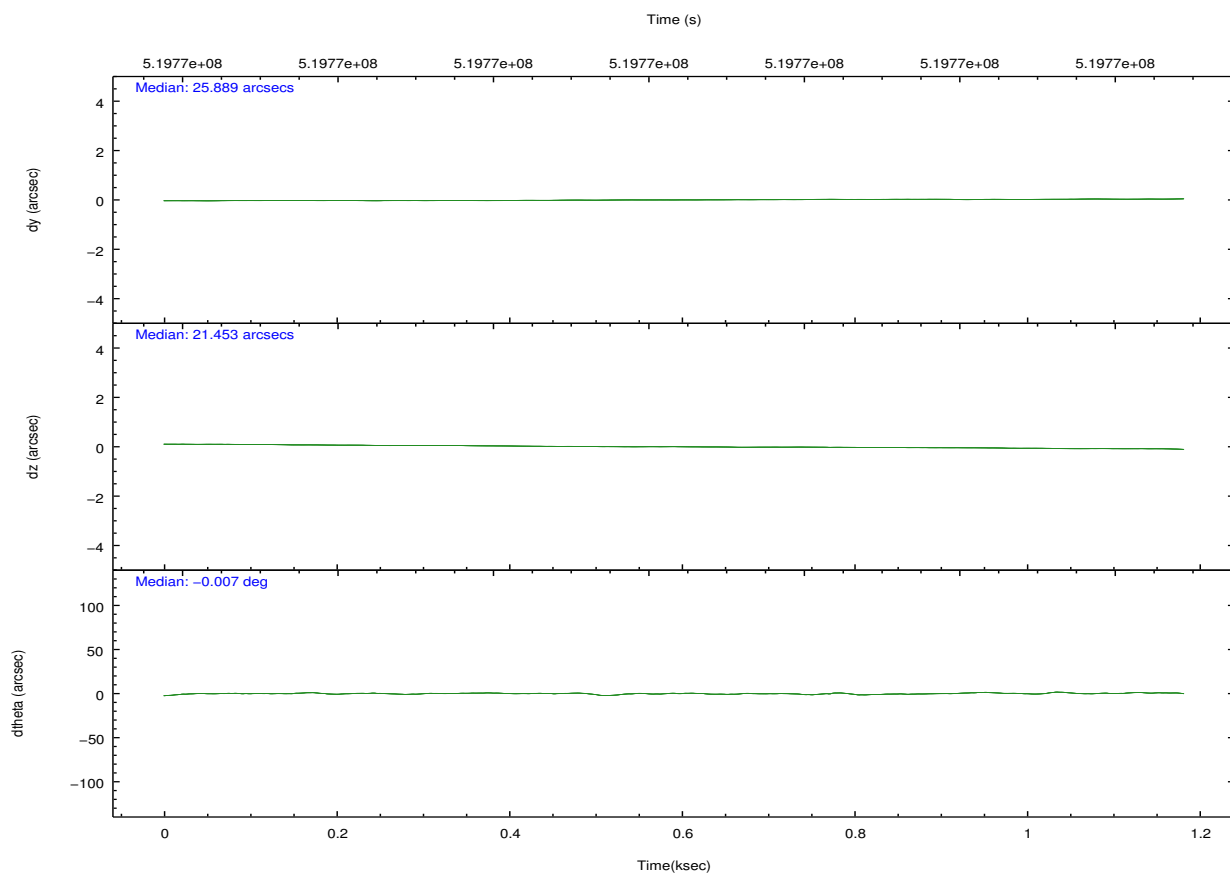
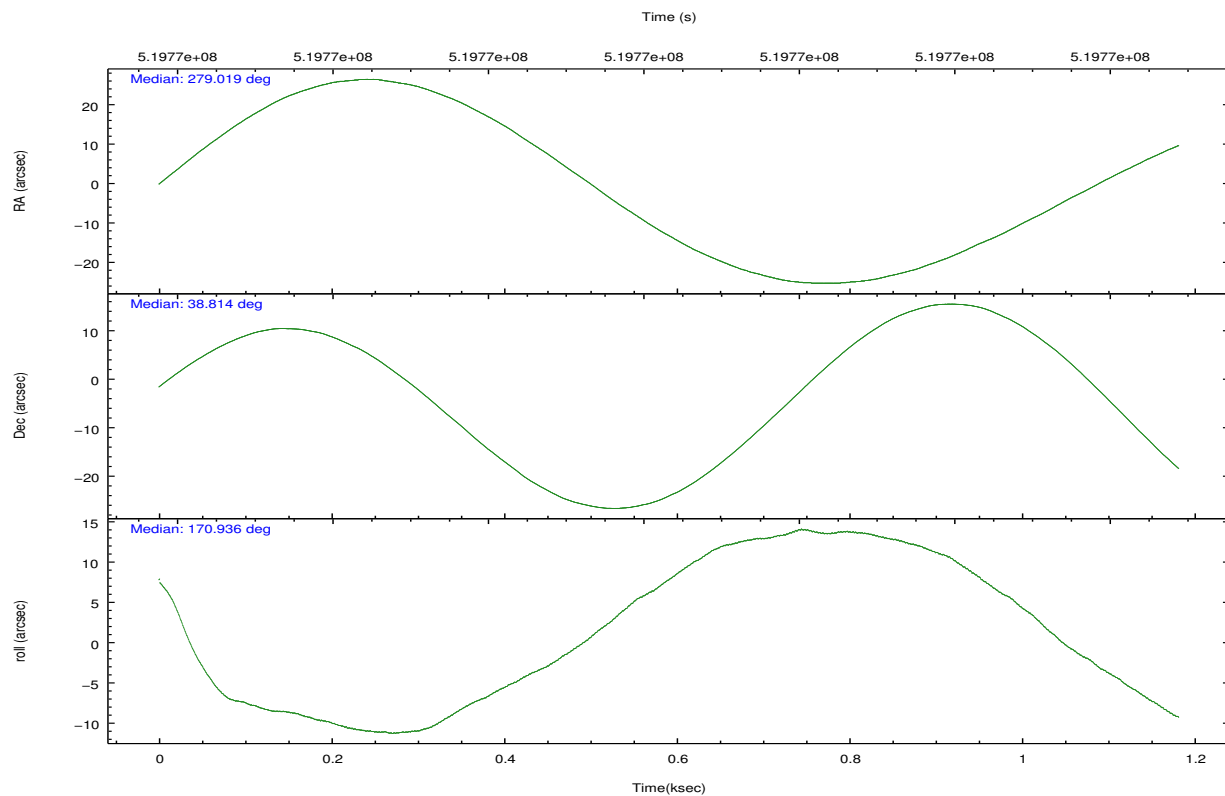
2.2 Compared Parameters

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	279.052429	279.0190577361955
[deg] Pointing Dec	38.823783	38.81316148961639
[deg] Pointing Roll	170.853705	170.9420226947806
[s] Window start time (MET)	517968067.184000	517968067.184000
[s] Window stop time (MET)	523152067.184000	523152067.184000
[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)	519770421.184000	519770044.87504
Observation start date	2014-06-21T20:39:14	2014-06-21T20:34:04
[s] Observation end time (MET)	519771421.184000	519771555.21262
Observation end date	2014-06-21T20:55:54	2014-06-21T20:59:15

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

2.3 Aspect



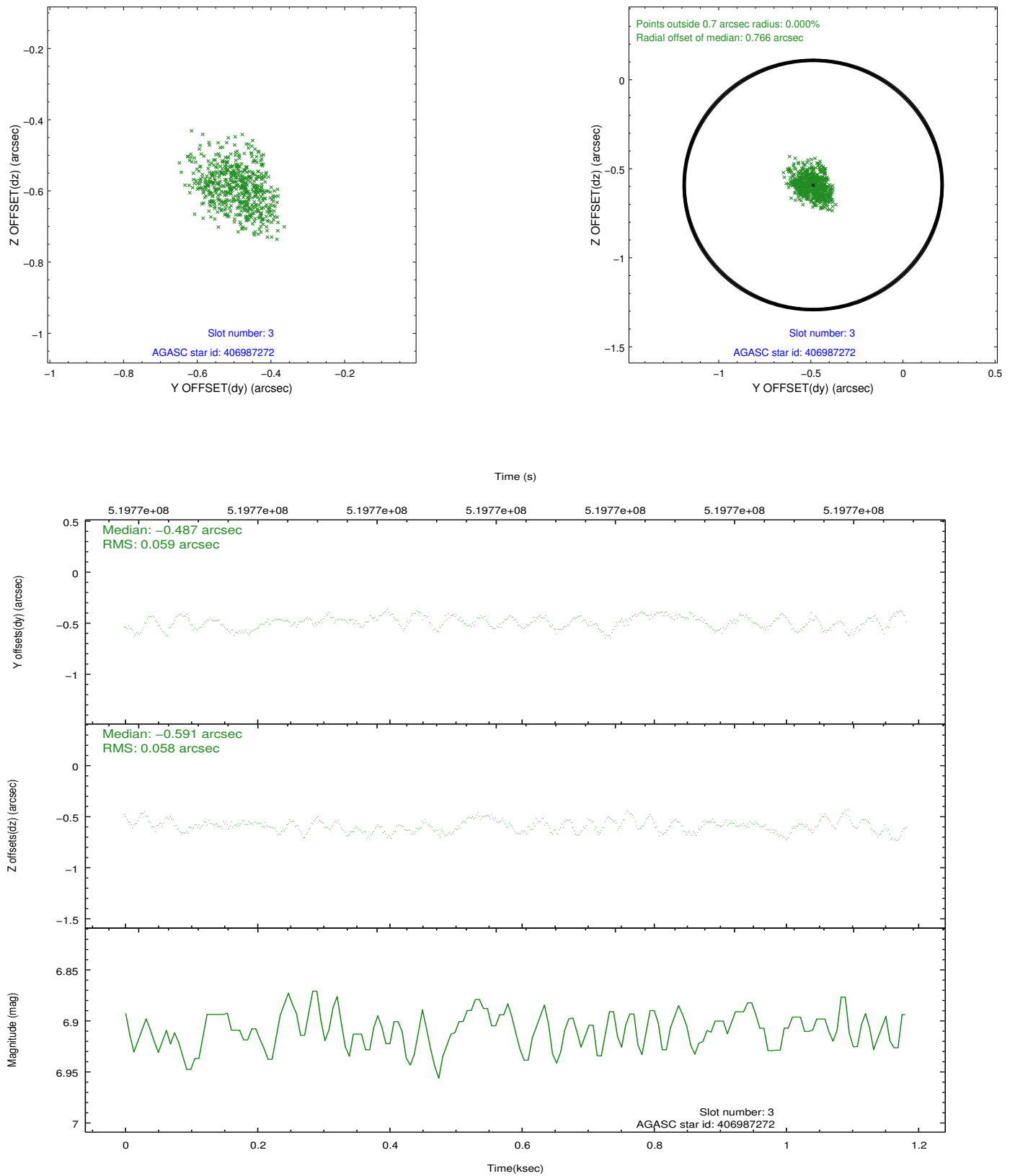


Slot Statistics

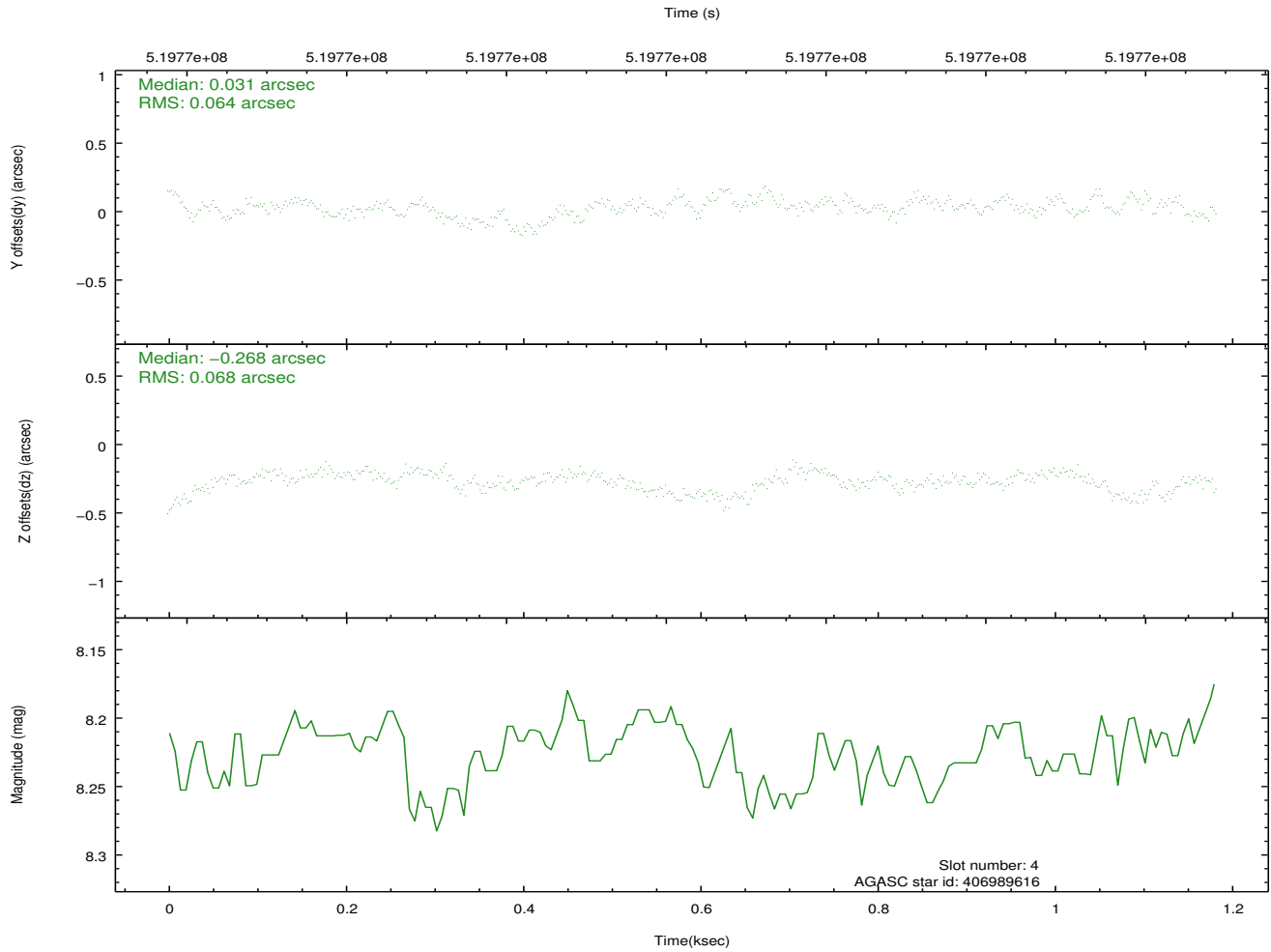
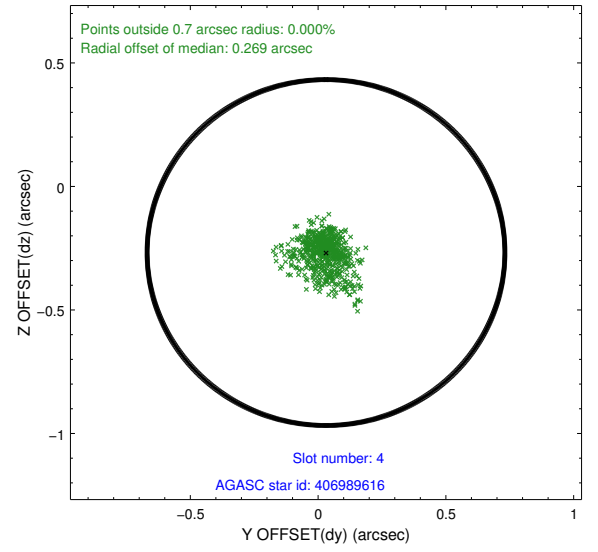
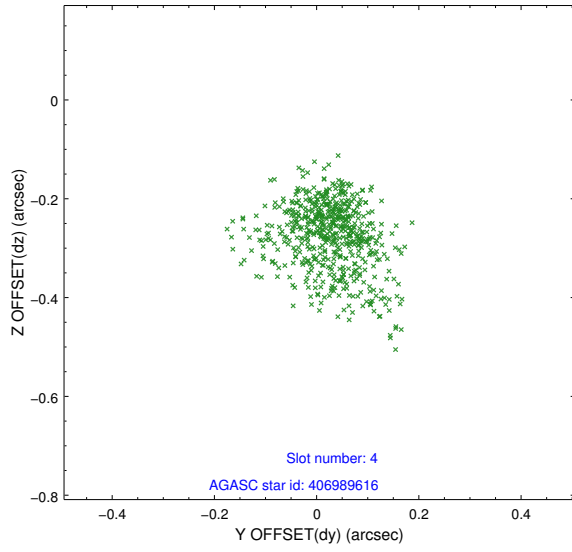
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-1	6.98	288	-0.031	-0.091	0.007	0.011	0.000000	0.000000	-1180.64	-470.54
1	FID		HRC-S-2	6.96	289	0.362	-0.130	0.006	0.010	0.000000	0.000000	1215.32	-464.69
2	FID		HRC-S-3	7.00	289	0.059	-0.081	0.007	0.013	0.000000	0.000000	-1179.13	557.38
3	GUIDE	used	406987272	6.91	578	-0.487	-0.591	0.089	0.139	278.536588	38.437504	1216.41	1602.96
4	GUIDE	used	406989616	8.23	578	0.031	-0.268	0.095	0.168	279.202881	38.520843	-588.84	1015.43
5	GUIDE	used	407510432	8.15	578	0.064	0.135	0.106	0.171	278.762778	39.530640	1198.91	-2379.77
6	GUIDE	used	406983600	8.89	578	0.218	0.279	0.088	0.153	279.940957	39.020708	-2337.19	-1106.03
7	GUIDE	used	407521232	8.63	577	0.186	0.440	0.082	0.142	279.628883	39.431715	-1236.69	-2418.15

2.4 Star Slots

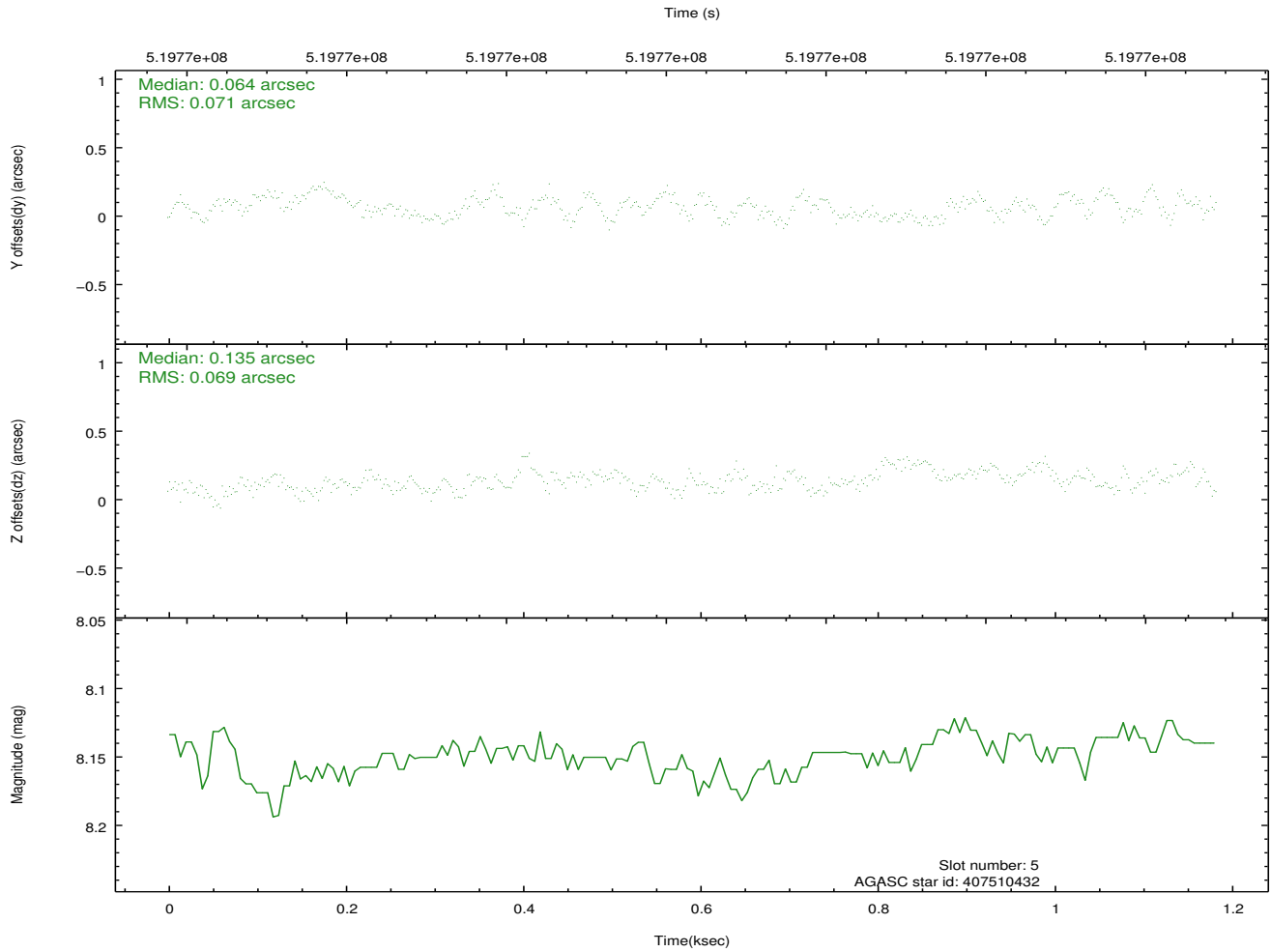
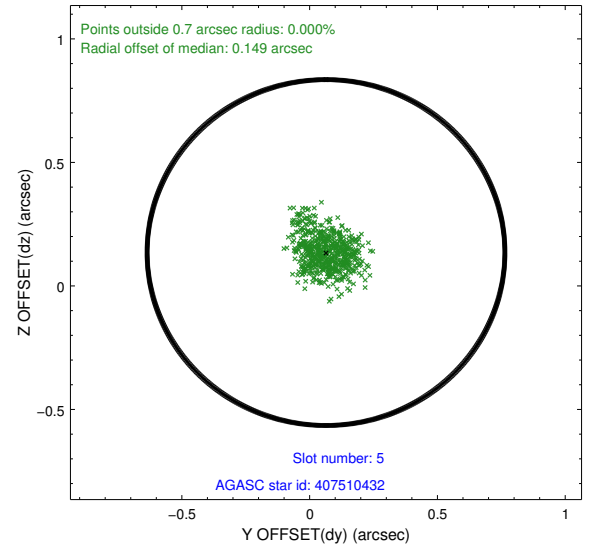
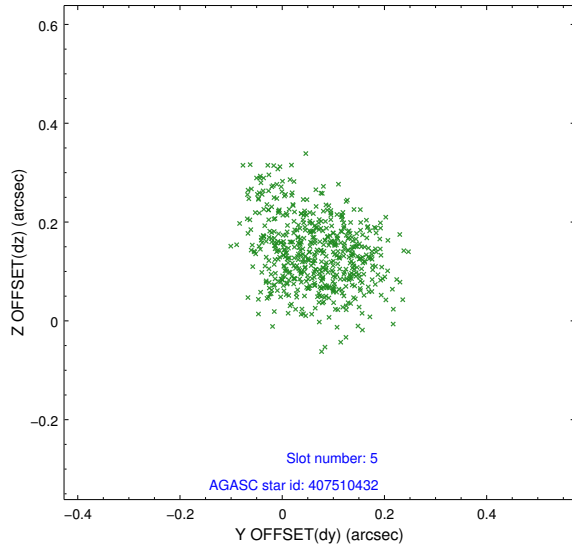
2.4.1 Slot 3



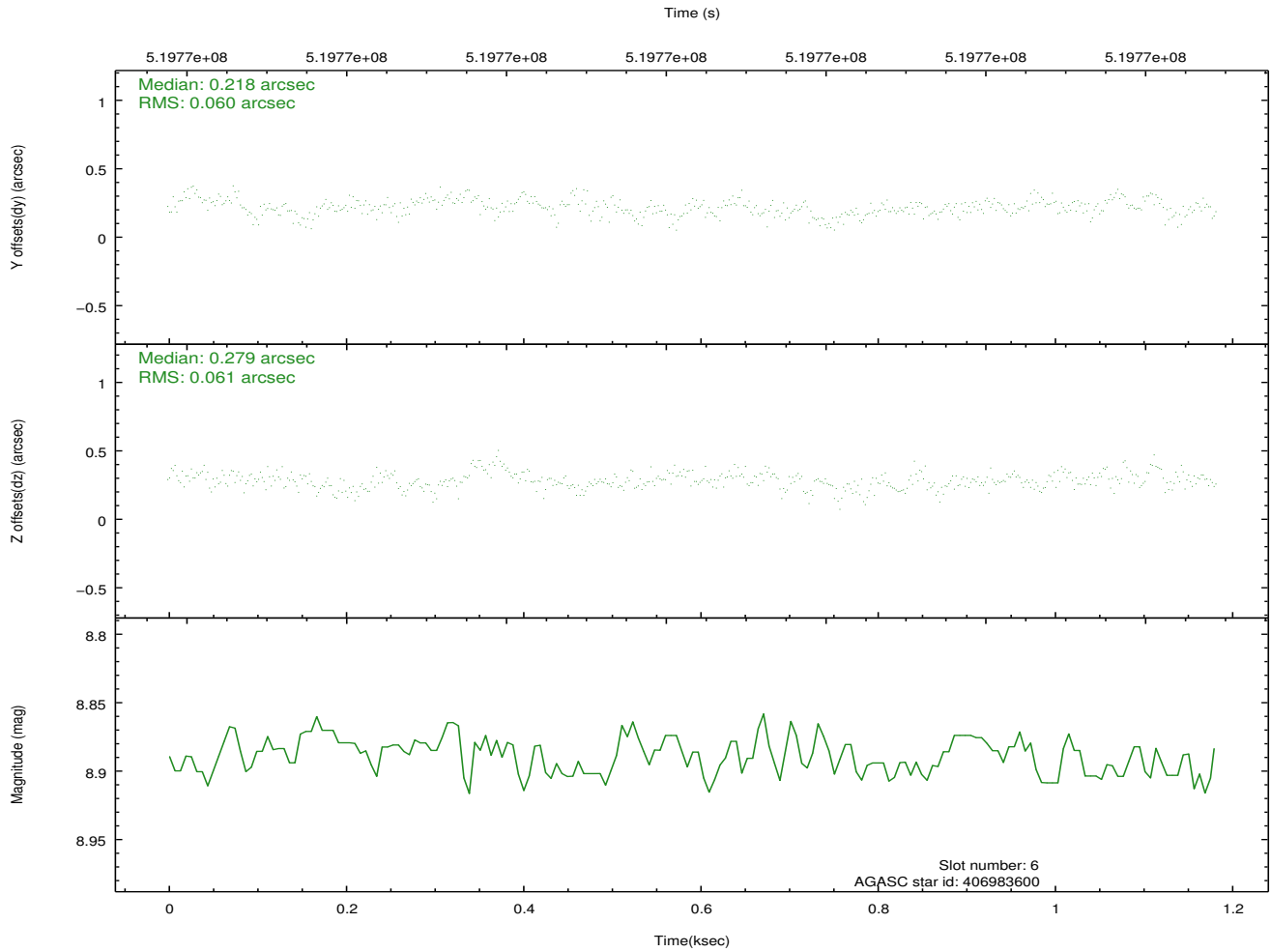
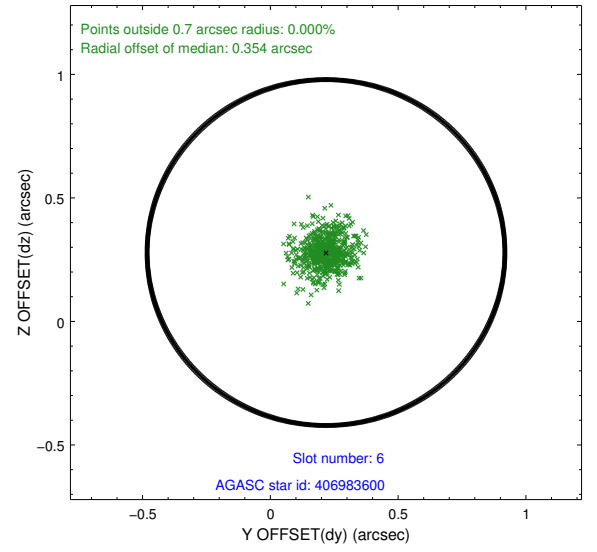
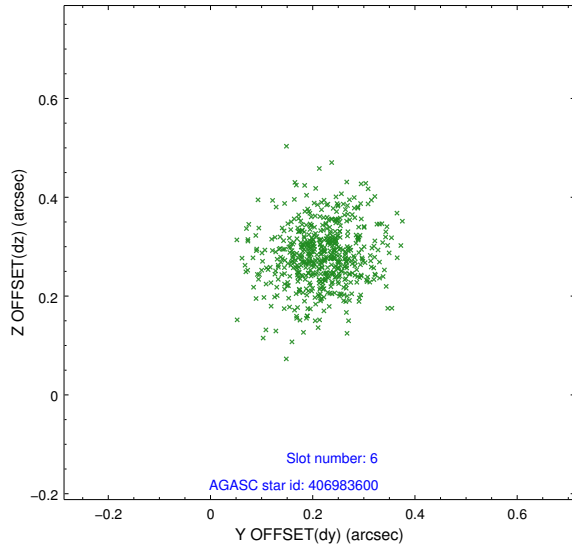
2.4.2 Slot 4



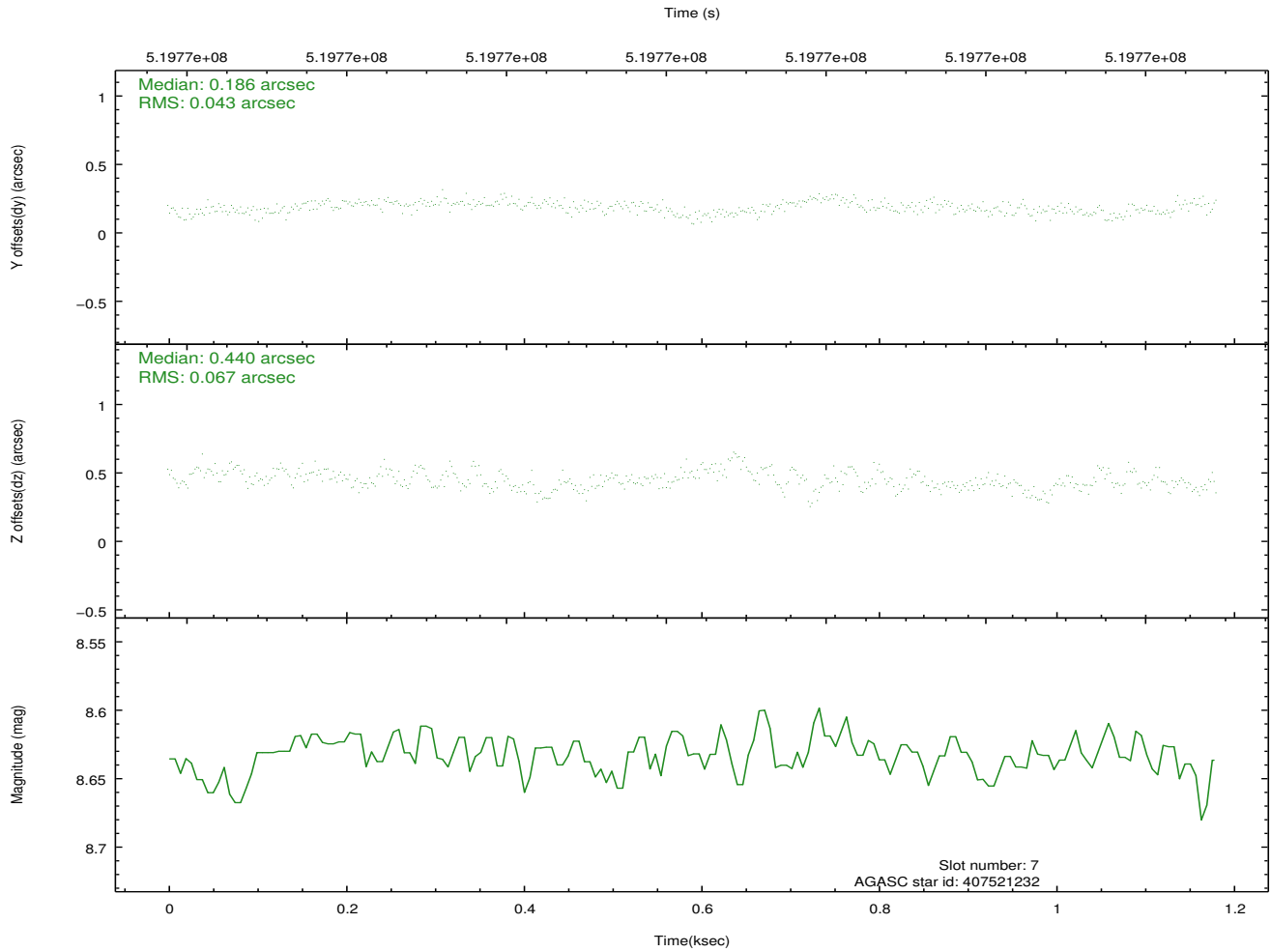
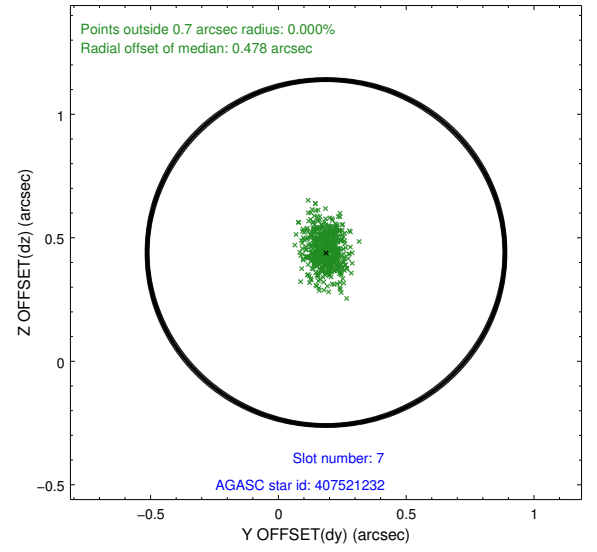
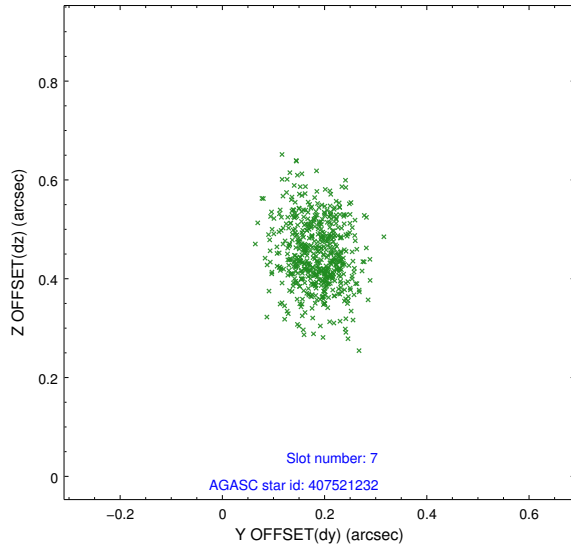
2.4.3 Slot 5



2.4.4 Slot 6

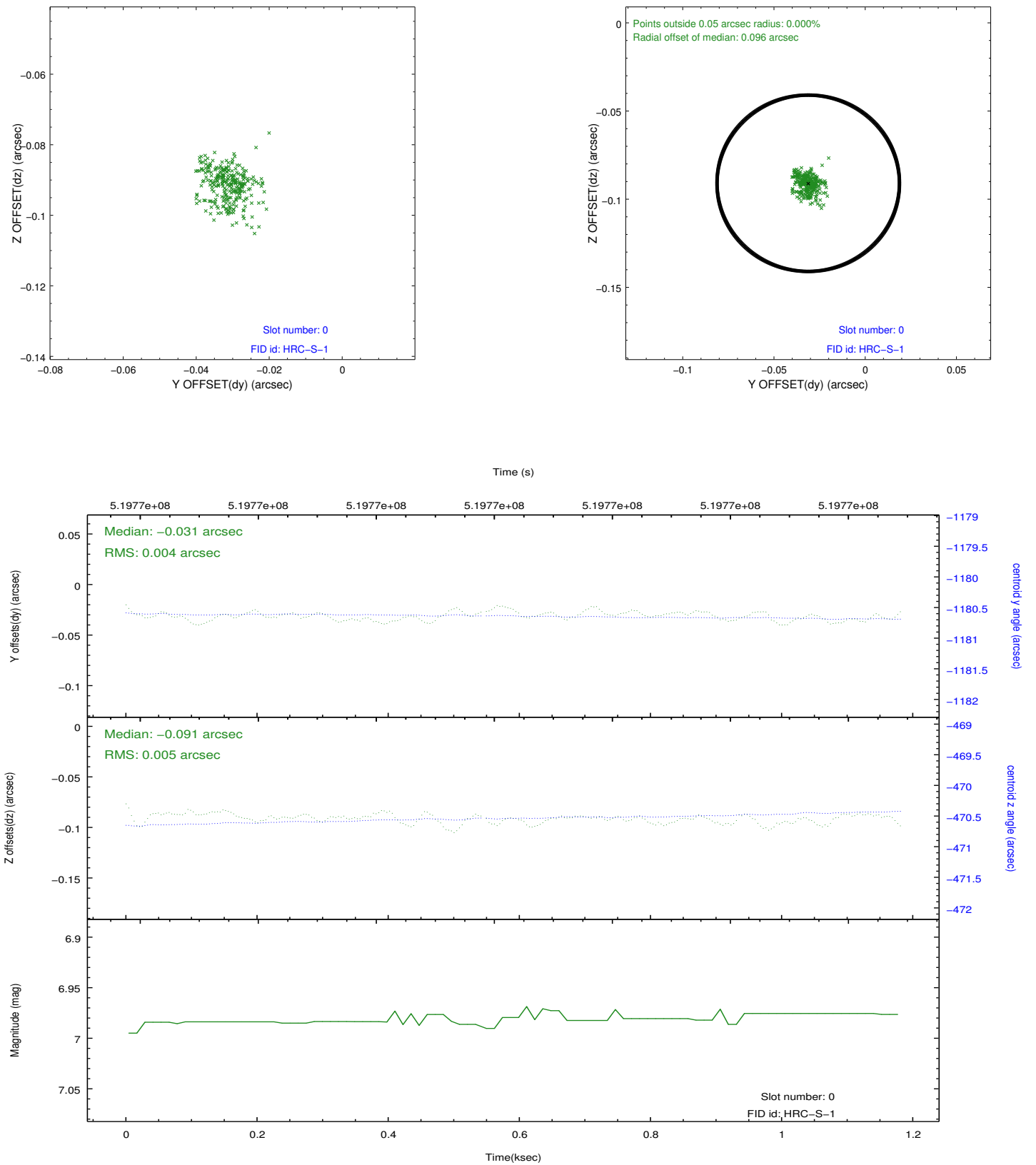


2.4.5 Slot 7

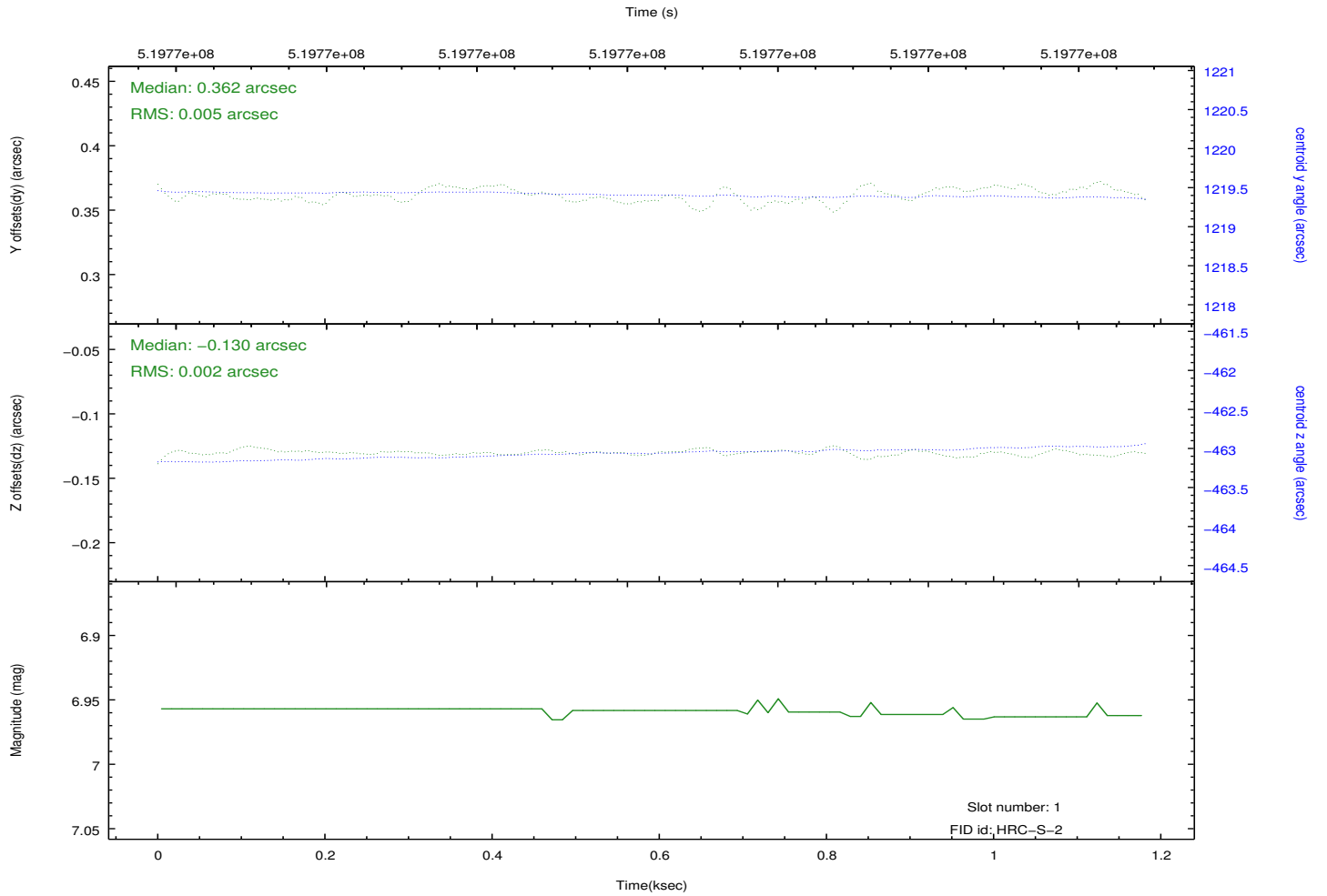
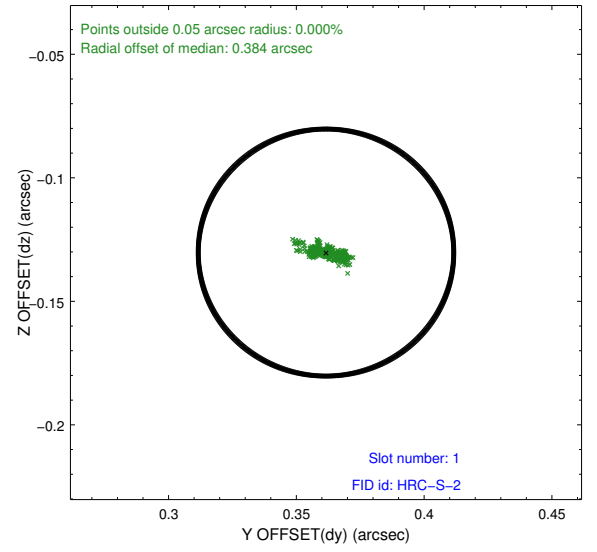
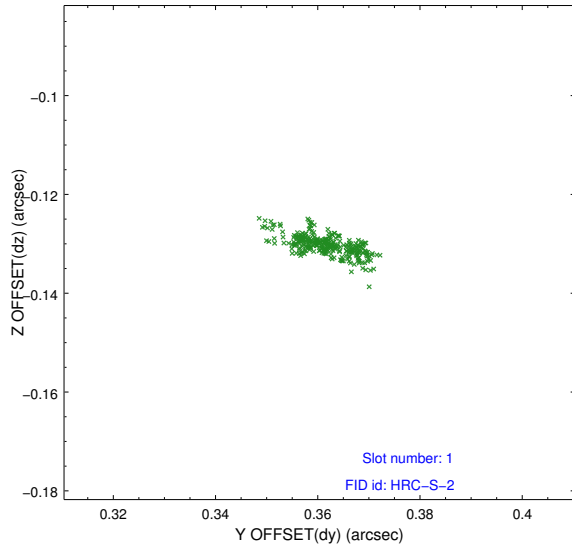


2.5 FID Slots

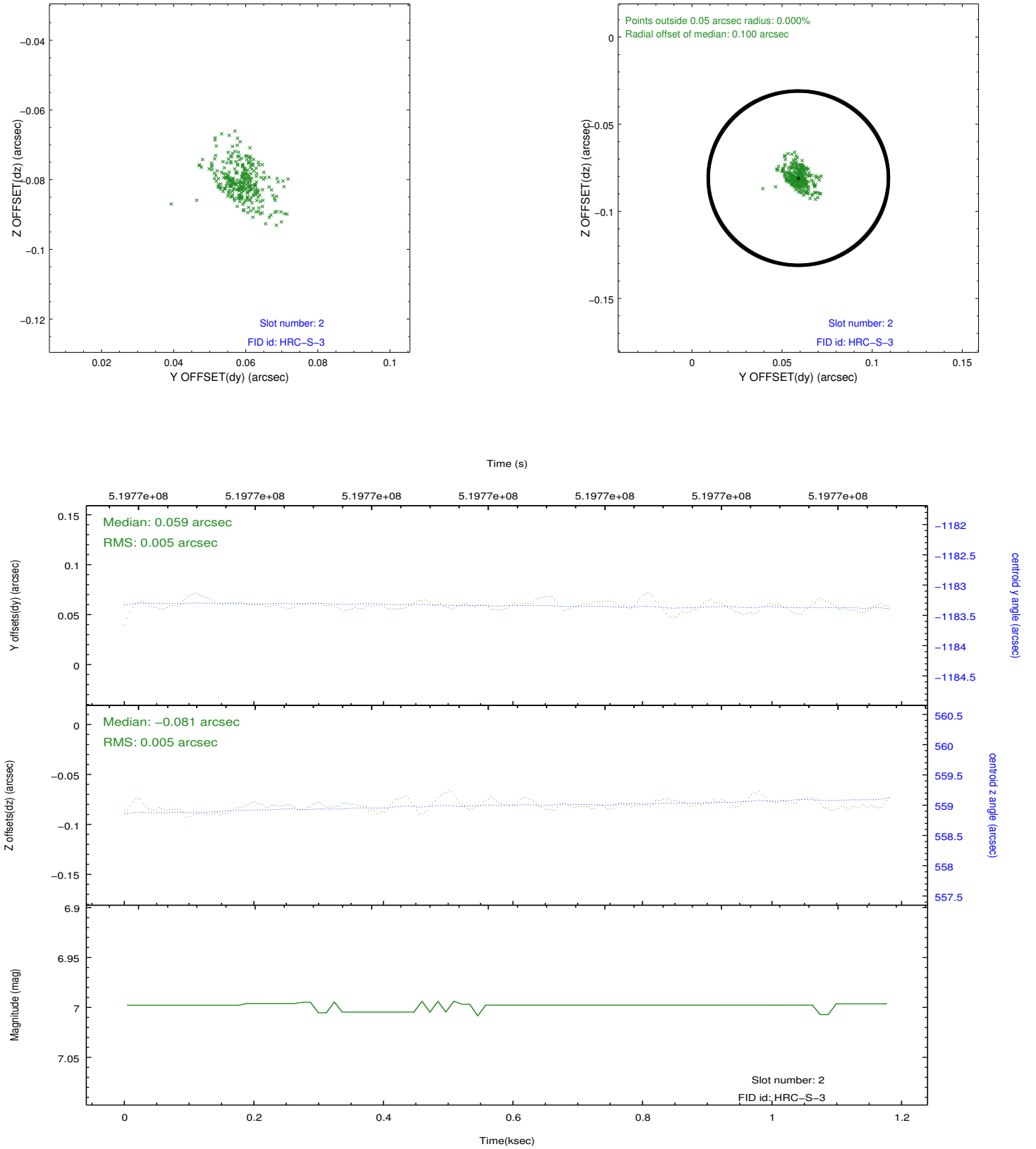
2.5.1 Slot 0



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)	2014.12.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1531250638366

A.2 Comments

Window constraint met.

=====

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.