

V&V Reference Report

L2 ASCDS Version : 10.6.4.1

Observation 21912 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : Oct 24 2018

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1 Front

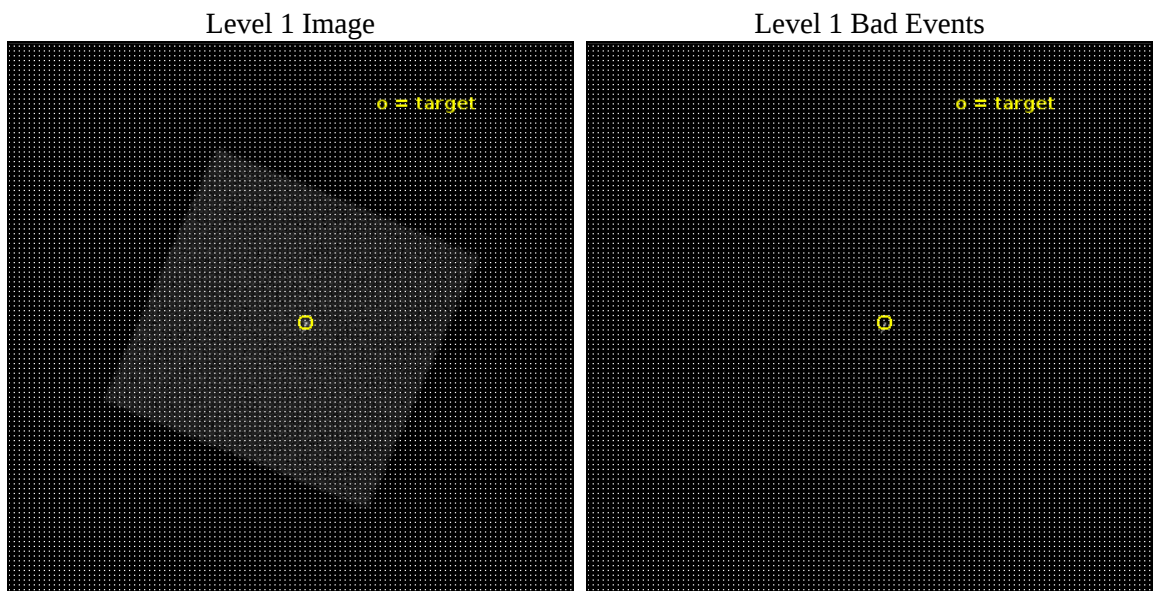
seq_num	291501	Sequence number
obs_id	21912	Observation id
title	Measure and monitor HRMA performance during cool down	Proposal tit
observer	CXC Calibration	Principal investigator
object	HR1099	Source name
ra_targ	54.197083	Observer's specified target RA [deg]
dec_targ	0.586917	Observer's specified target Dec [deg]
ra_nom	54.226932955148	Nominal RA [deg]
dec_nom	0.58182930948252	Nominal Dec [deg]
roll_nom	68.245212268079	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1181.8250701427	[s]
livetime	1164.4943766004	Ontime multiplied by DTCOR
l2events	152530	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	10.6.4.1	Processing system revision	ontime	1181.8250701427	[s]
caldbver	4.8.0.1	 	l1events	251709	Number of level 1 events
date	2018-10-25T00:22:45	Date and time of file creation			
revision	1	Processing version of data			

2.1.3 Events

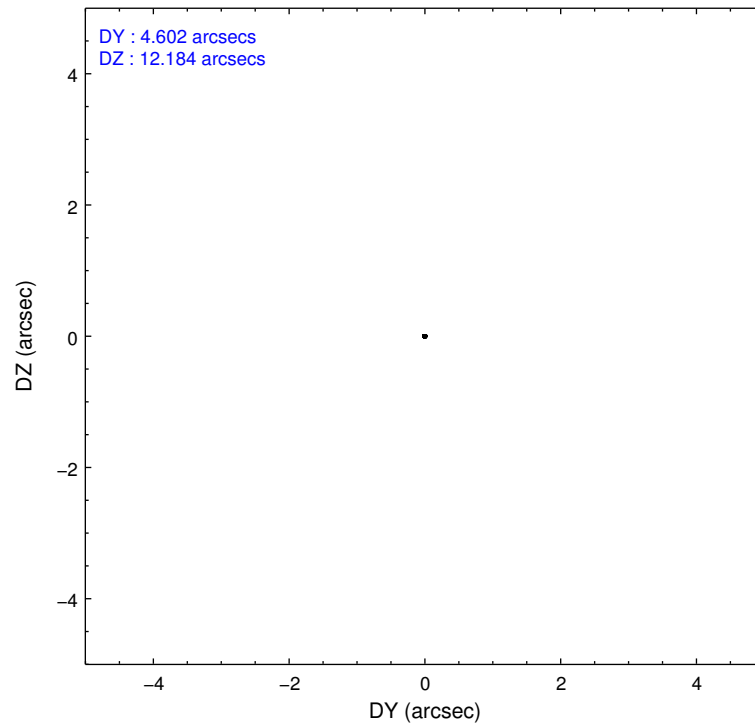
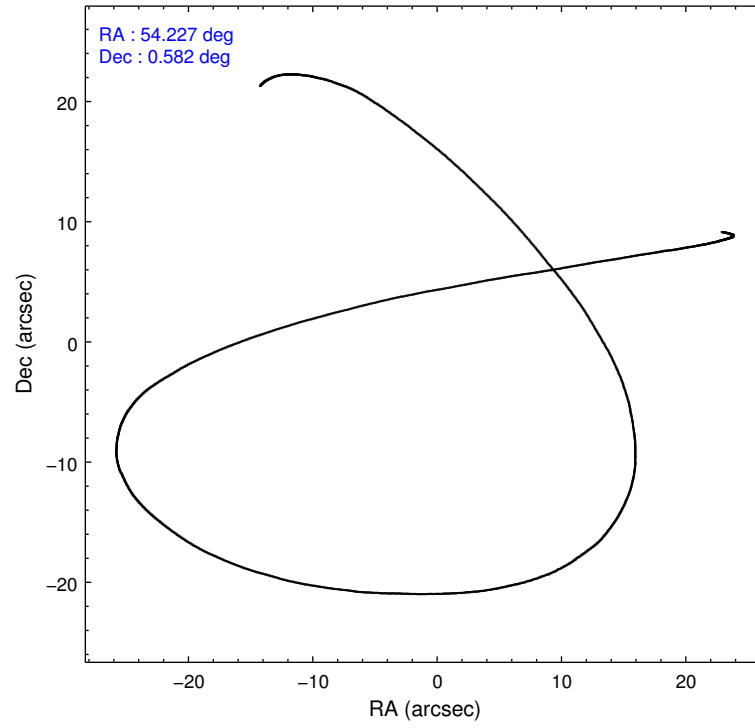
Level 1 Events

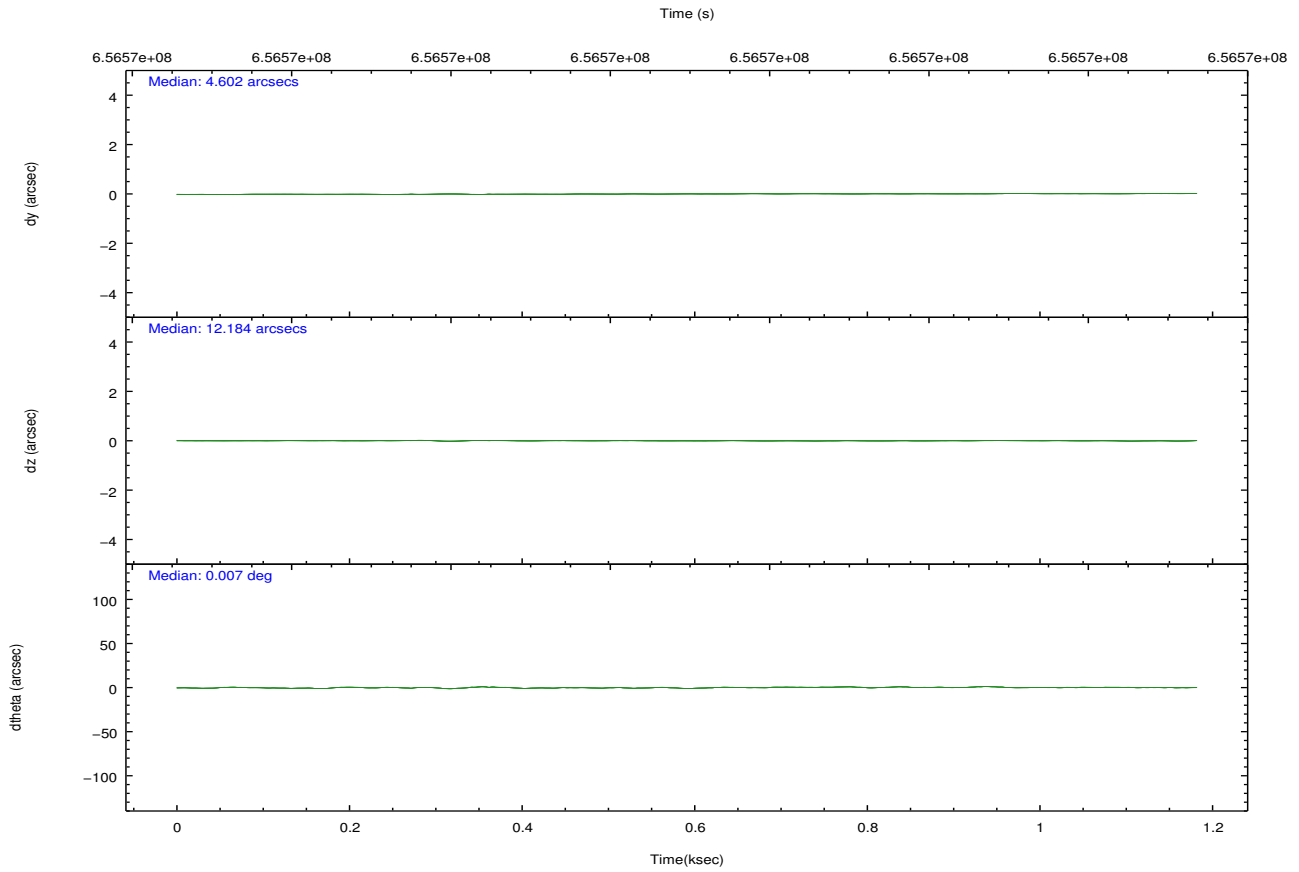
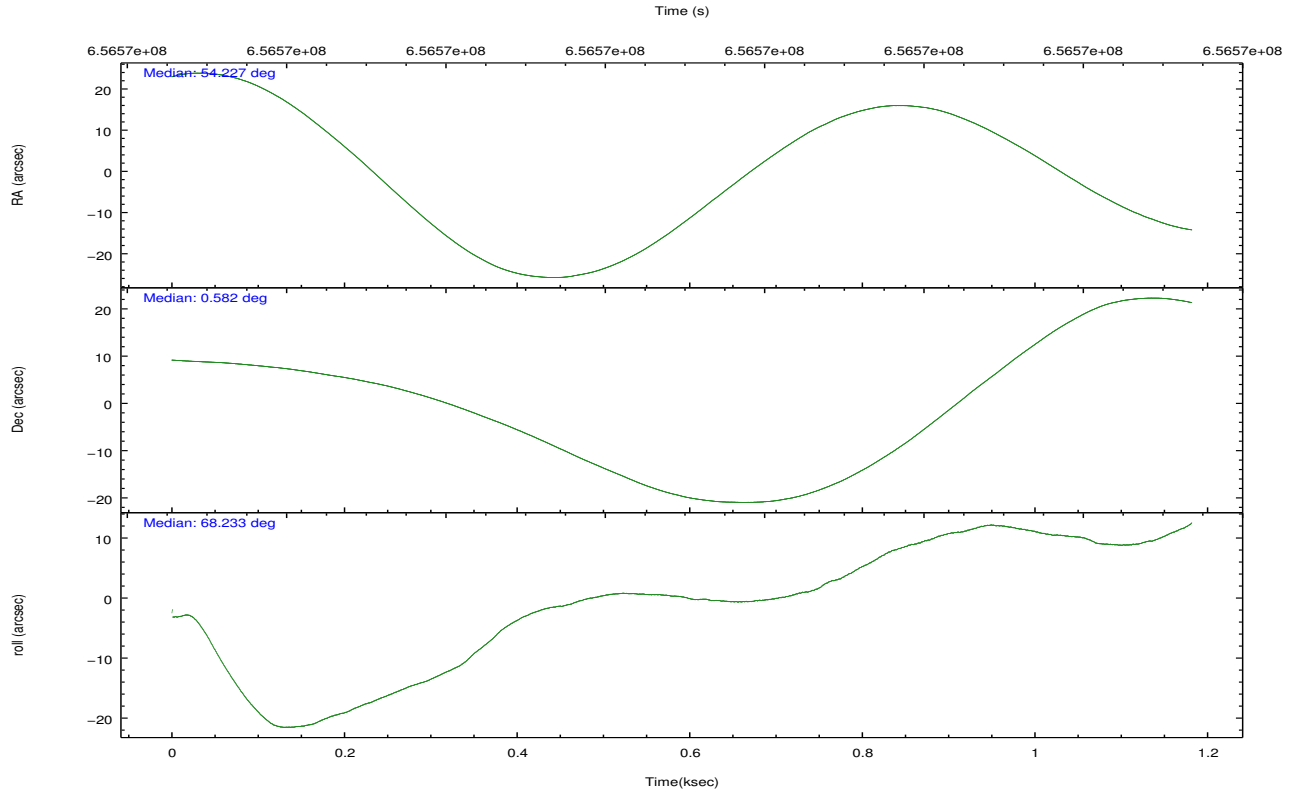
	segment 0
level 1 events	251709
rejected events	54674
rejected %	21%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
Detector	HRC-I	HRC-I	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
[deg] Pointing RA	54.231148	54.22693295514837			
[deg] Pointing Dec	0.554530	0.5818293094825197			
[deg] Pointing Roll	68.340826	68.2452122680788			
[mm] SIM focus pos	-1.040293	-1.038866356238299			
[mm] SIM defocus	0	0.001426264420575141			
[mm] SIM translation stage pos	126.985494	126.9854943052878			
[mm] SIM translation stage offset	0	-5.413686238853188e-06			
[s] Observation start time (MET)	656570069.184000	656569694.13515			
Observation start date	2018-10-22T04:33:20	2018-10-22T04:28:14			
[s] Observation end time (MET)	656571069.184000	656571203.96023			
Observation end date	2018-10-22T04:50:00	2018-10-22T04:53:23			

2.3 Aspect



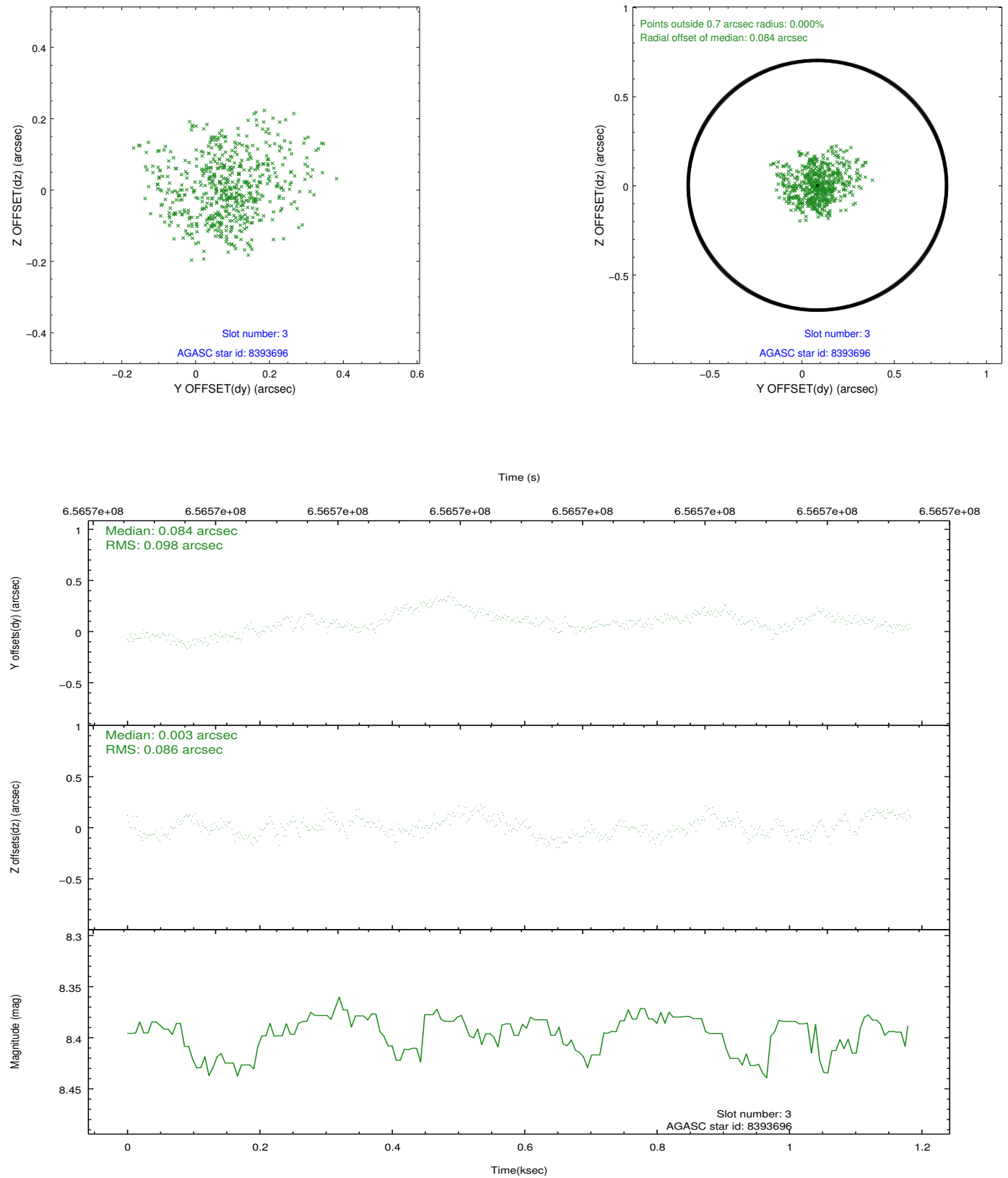


Slot Statistics

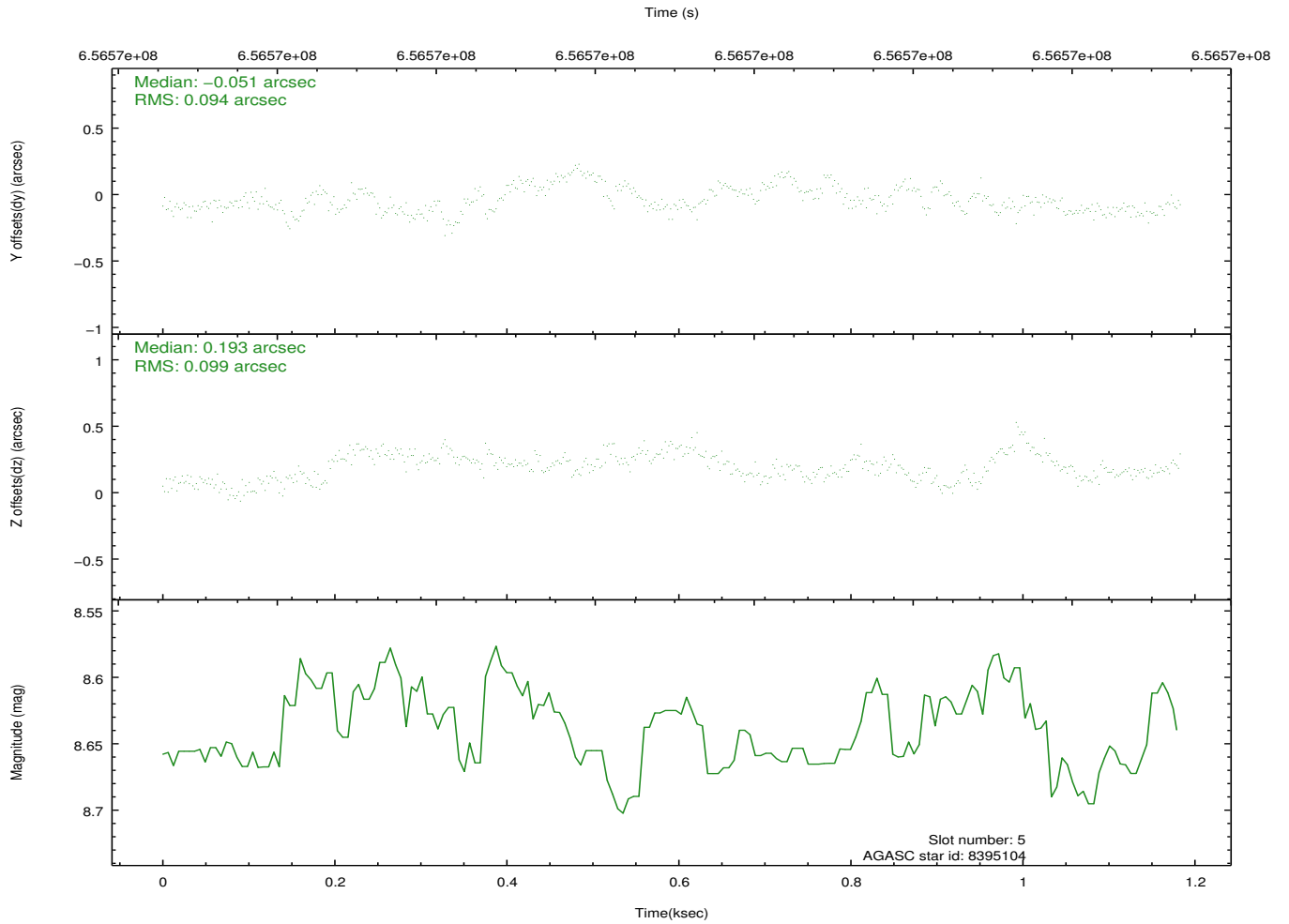
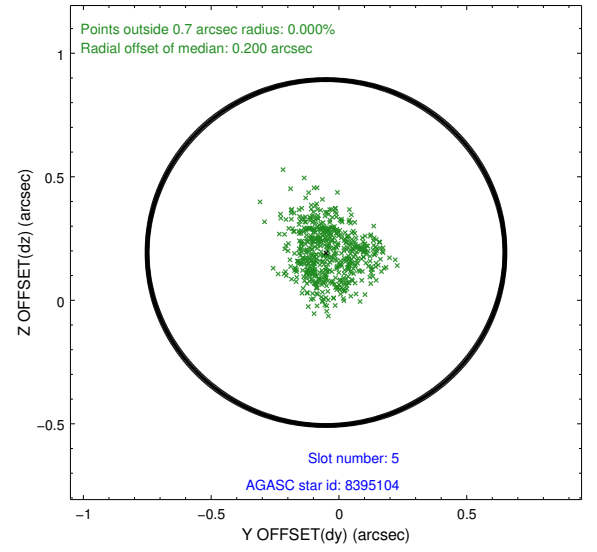
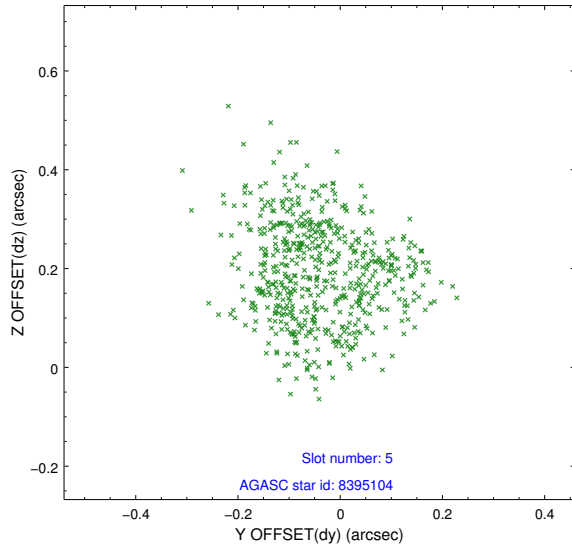
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-I-1	7.04	289	1.000	-0.133	-0.028	0.009	0.014	0.000000	0.000000	-760.21	-1300
1	FID		HRC-I-2	7.06	289	1.000	0.364	-0.202	0.008	0.014	0.000000	0.000000	850.29	-1306
2	FID		HRC-I-3	7.14	289	1.000	-0.111	0.139	0.008	0.017	0.000000	0.000000	-1185.79	999
3	GUIDE	used	8393696	8.39	578	1.000	0.084	0.003	0.141	0.224	53.645666	0.680479	-358.42	2126
4	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0
5	GUIDE	used	8395104	8.64	578	1.000	-0.051	0.193	0.149	0.220	54.744893	0.796520	1490.63	-1393
6	GUIDE	used	8395504	9.68	578	1.000	0.112	0.124	0.231	0.344	54.466573	0.973564	1716.15	-232
7	GUIDE	used	8399352	9.89	576	1.000	-0.156	-0.326	0.252	0.377	53.946831	1.204693	1798.71	1815

2.4 Star Slots

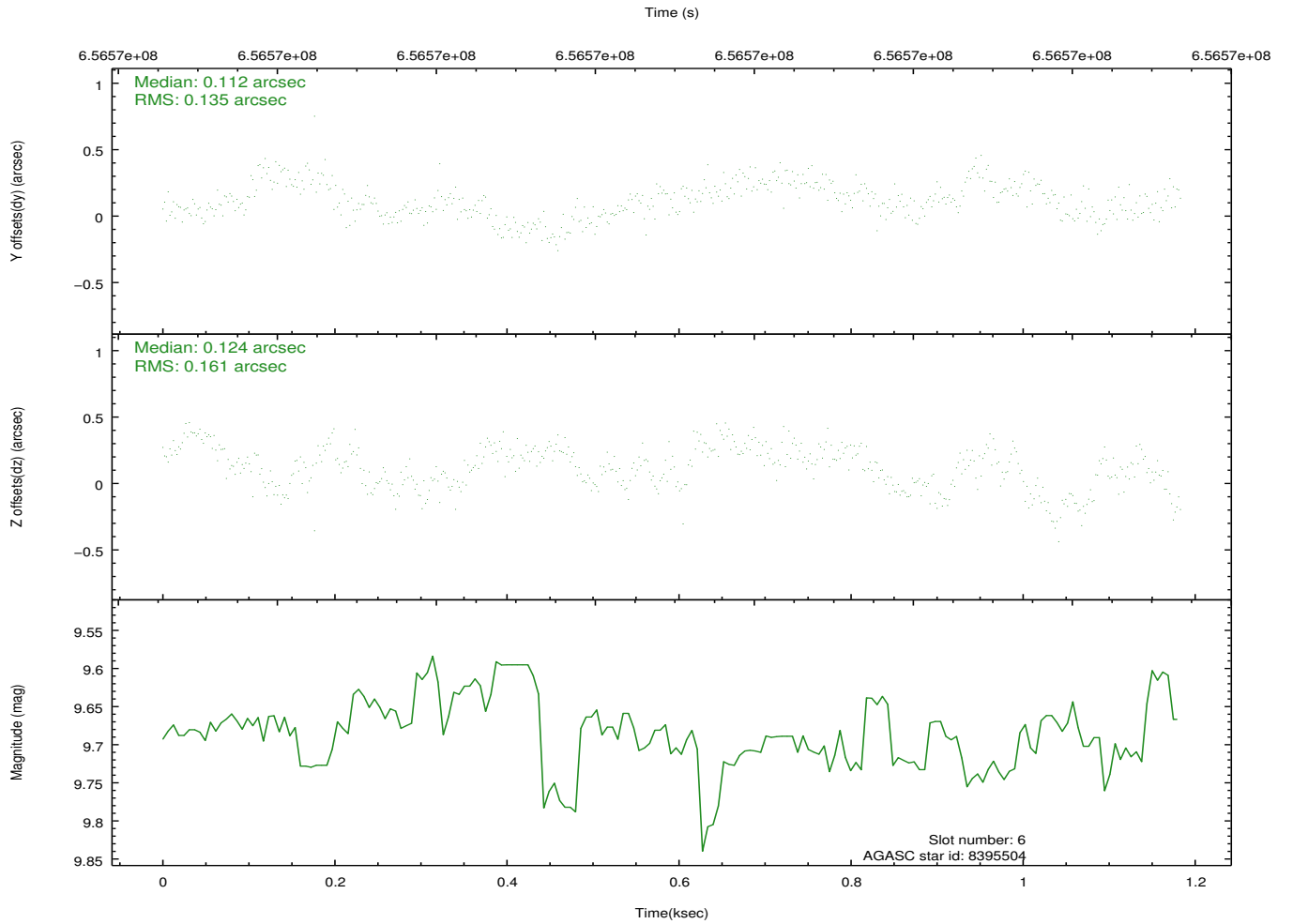
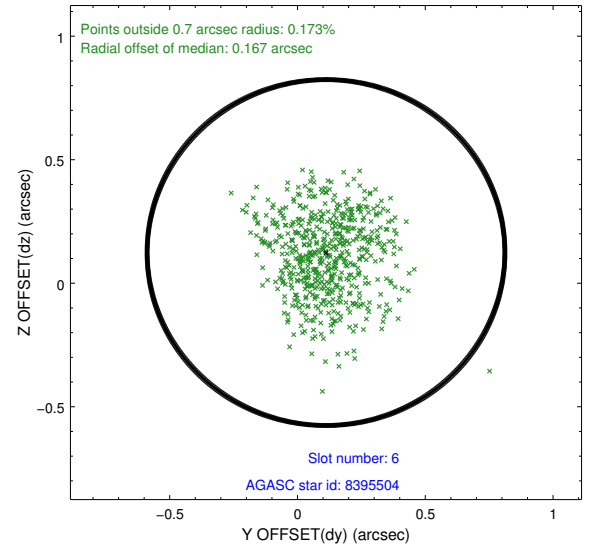
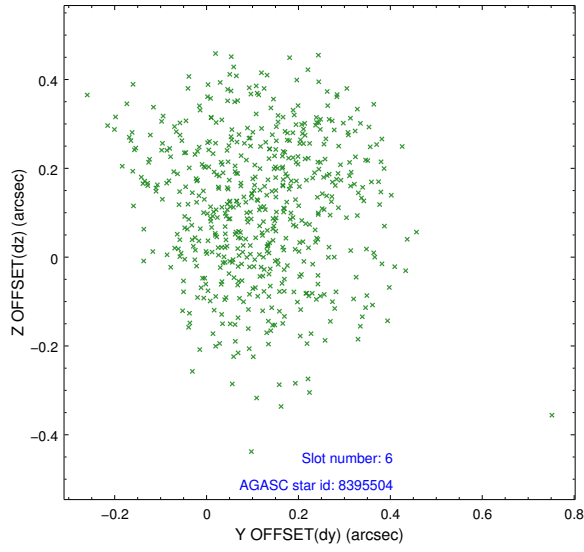
2.4.1 Slot 3



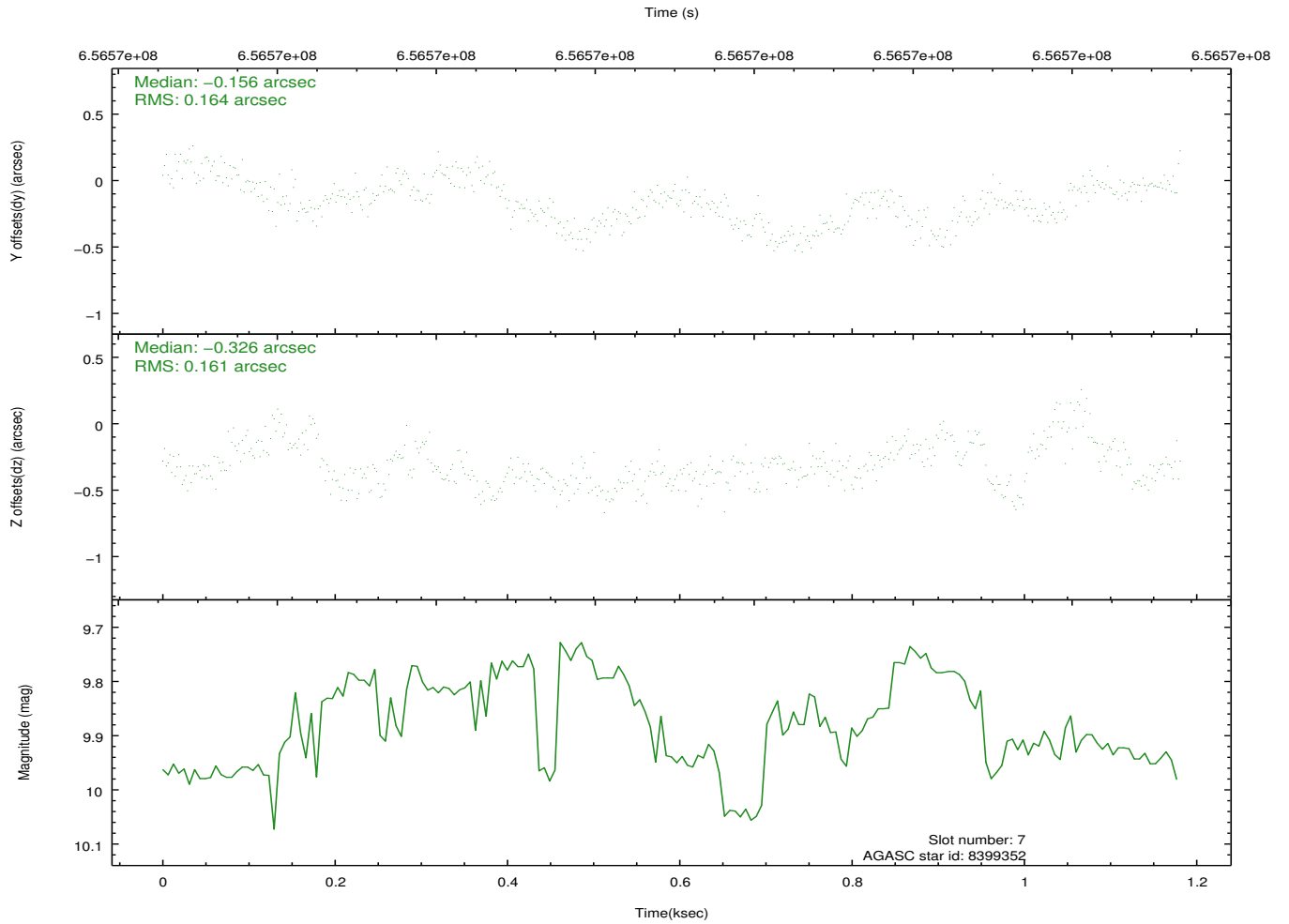
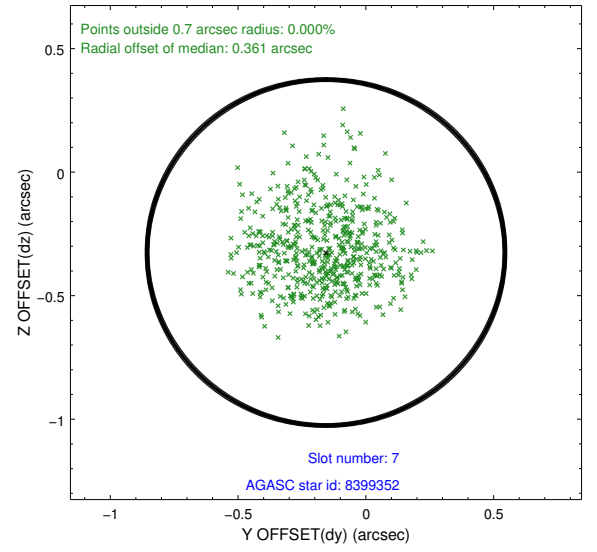
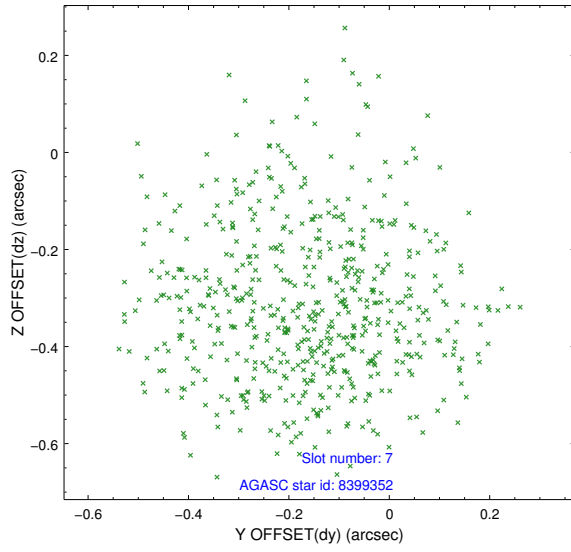
2.4.2 Slot 5



2.4.3 Slot 6

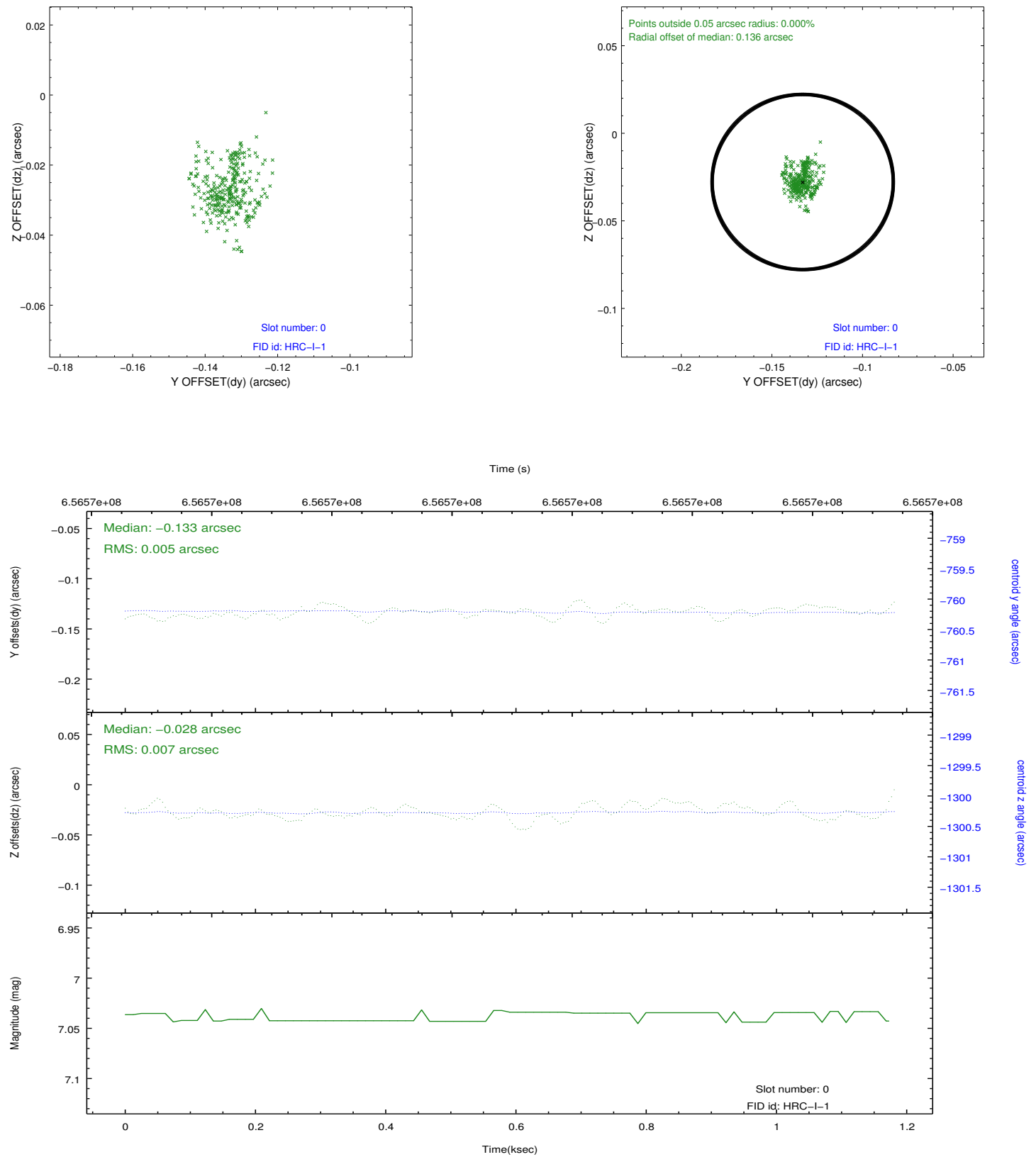


2.4.4 Slot 7

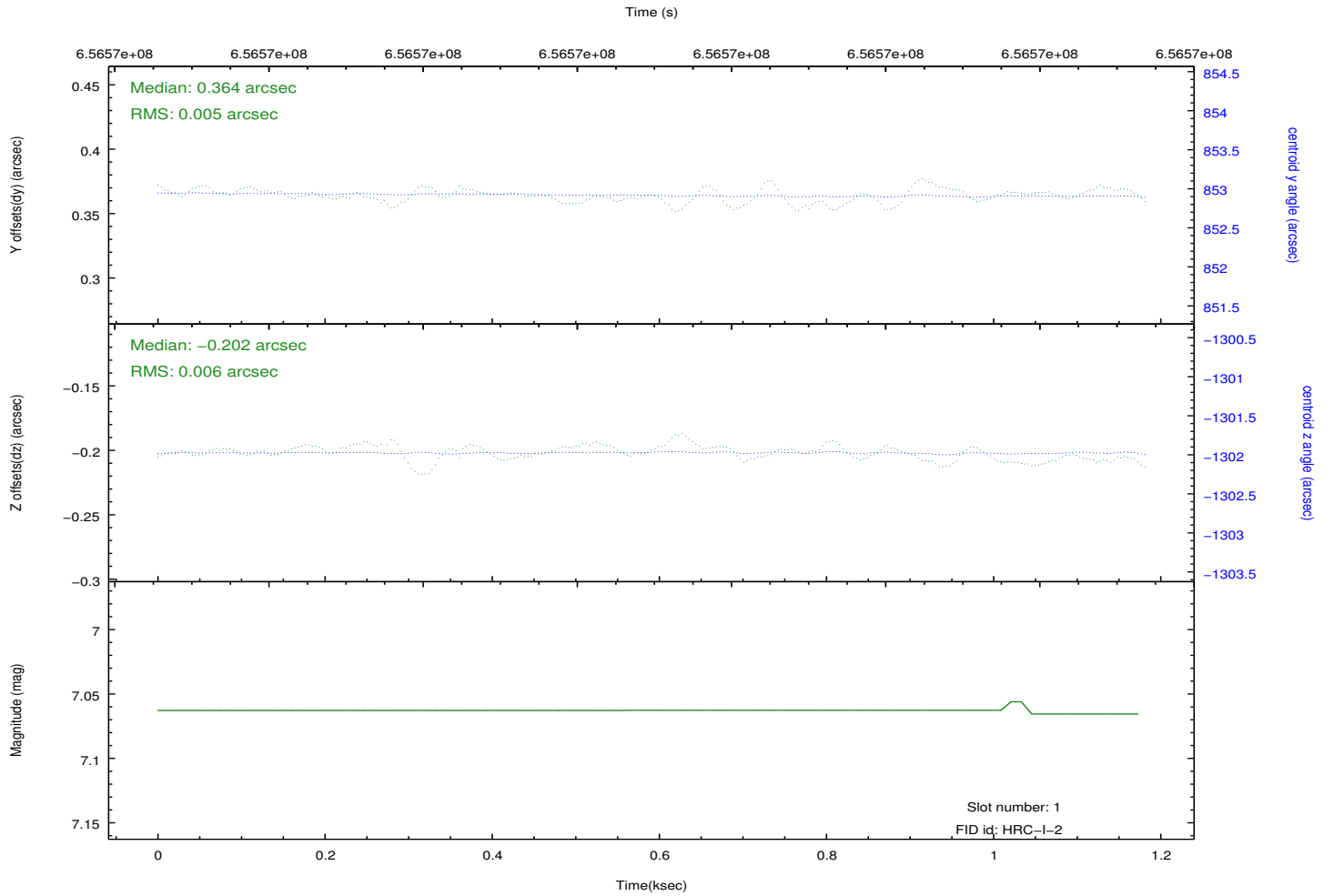
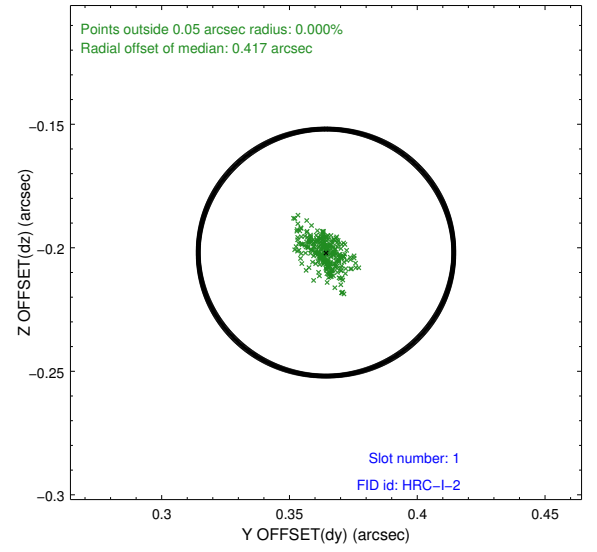
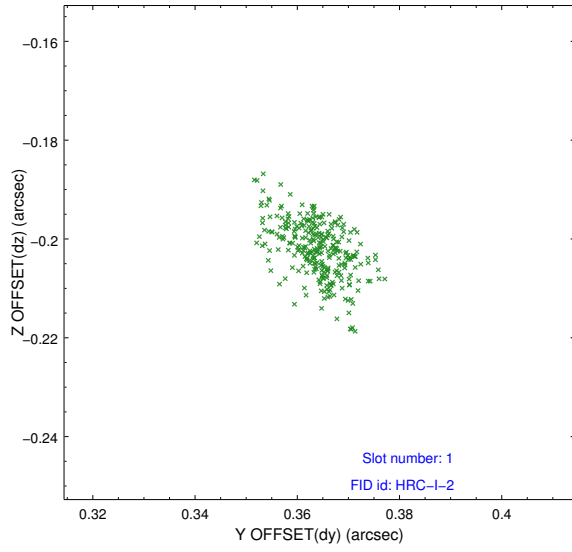


2.5 FID Slots

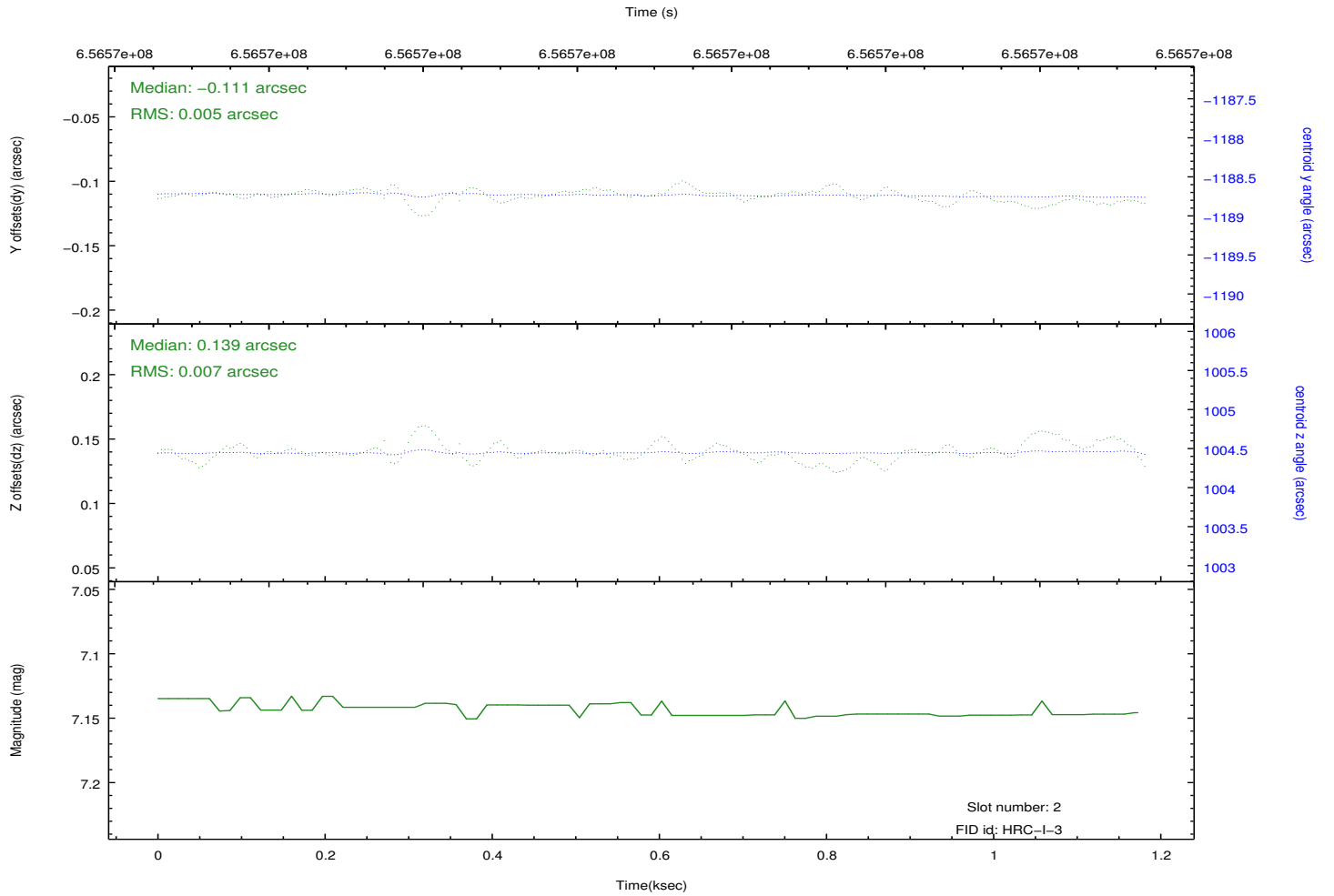
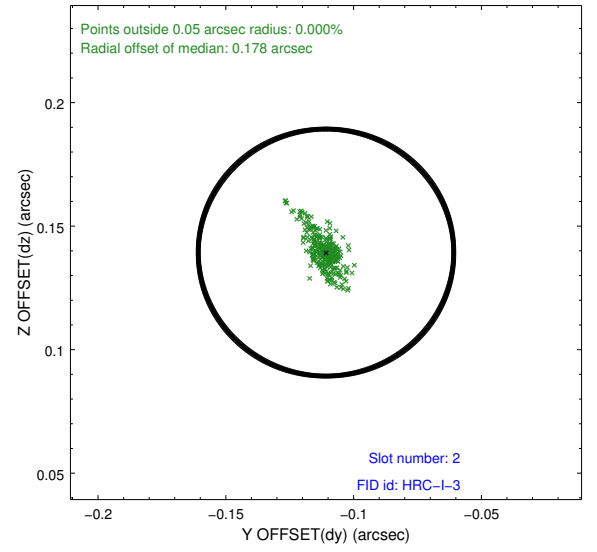
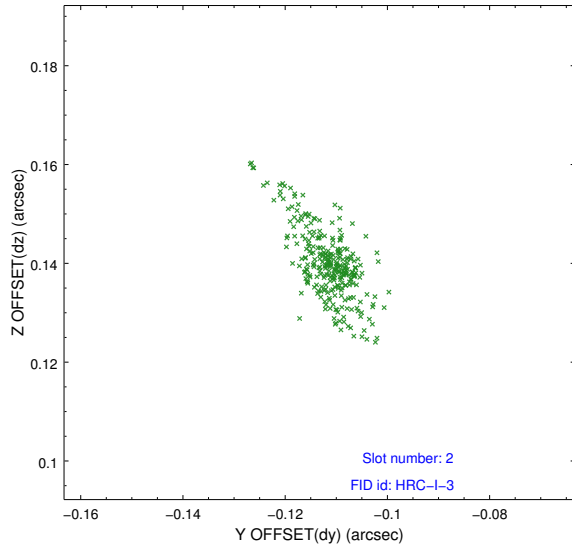
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2018.10.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1818250701427

A.2 Comments

The guide star in slot 4 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this guide star from the solution.