

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 21762 - L2 Version 1
Chandra X-Ray Center

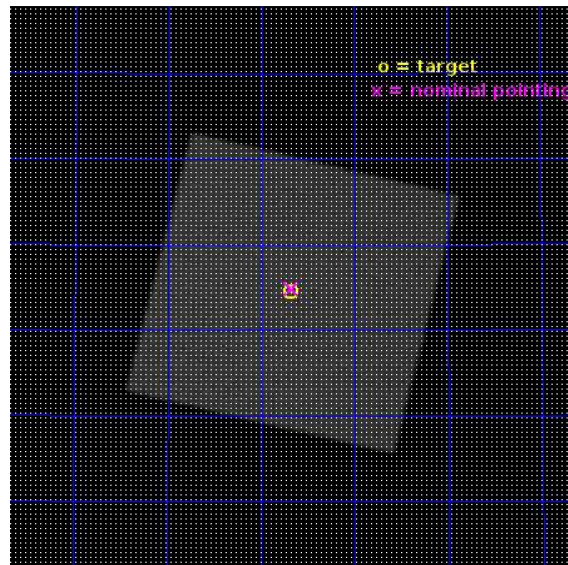
L2 Processing Date : Apr 8 2019

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1 Front

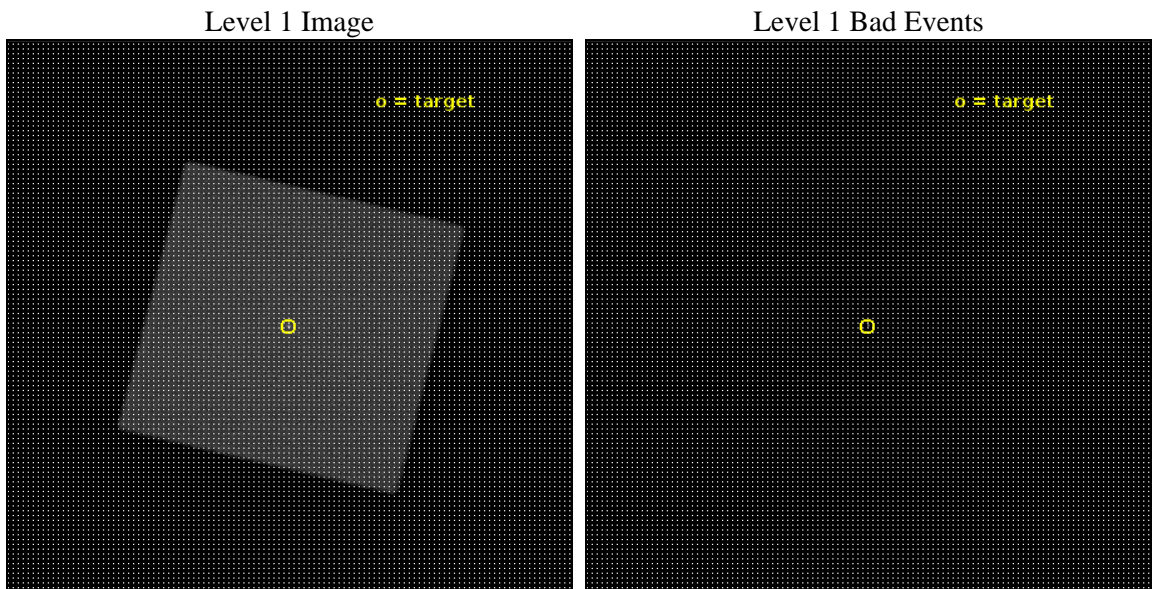
seq_num	291448	Sequence number
obs_id	21762	Observation id
title	AO-20 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.169666	Observer's specified target RA [deg]
dec_targ	45.742509	Observer's specified target Dec [deg]
ra_nom	332.16903882145	Nominal RA [deg]
dec_nom	45.747977141946	Nominal Dec [deg]
roll_nom	58.786581458032	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5142.6815577745	[s]
livetime	5067.1835819417	Ontime multiplied by DTCOR
l2events	653712	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	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	5142.6815577745	[s]
caldbver	4.8.2	 	l1events	1047167	Number of level 1 events
date	2019-04-08T22:58:22	Date and time of file creation			
revision	1	Processing version of data			

2.1.3 Events

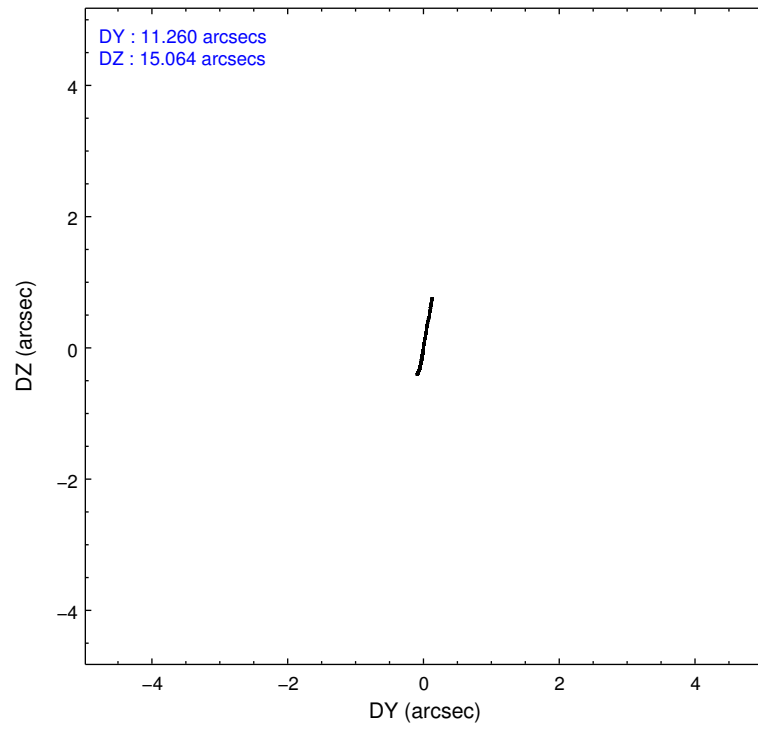
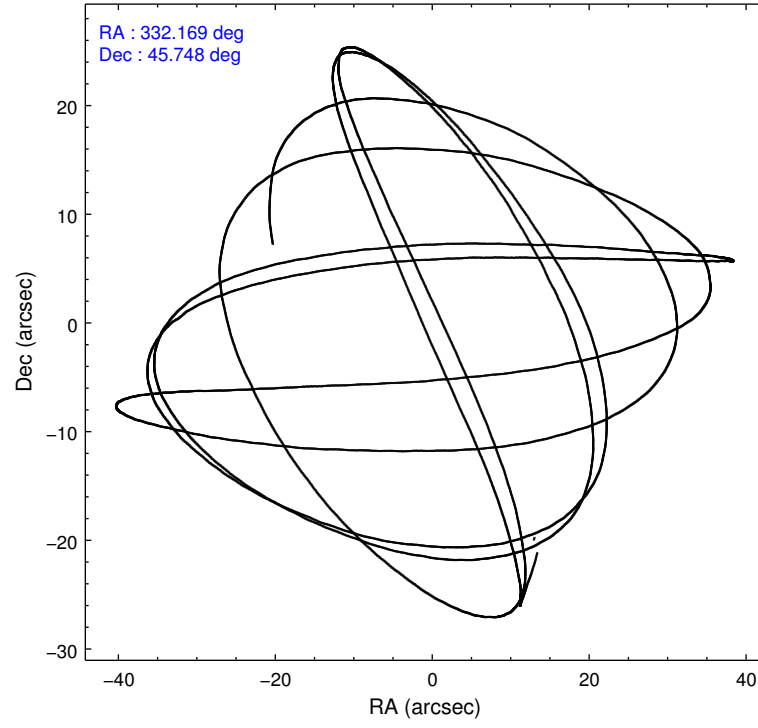
Level 1 Events

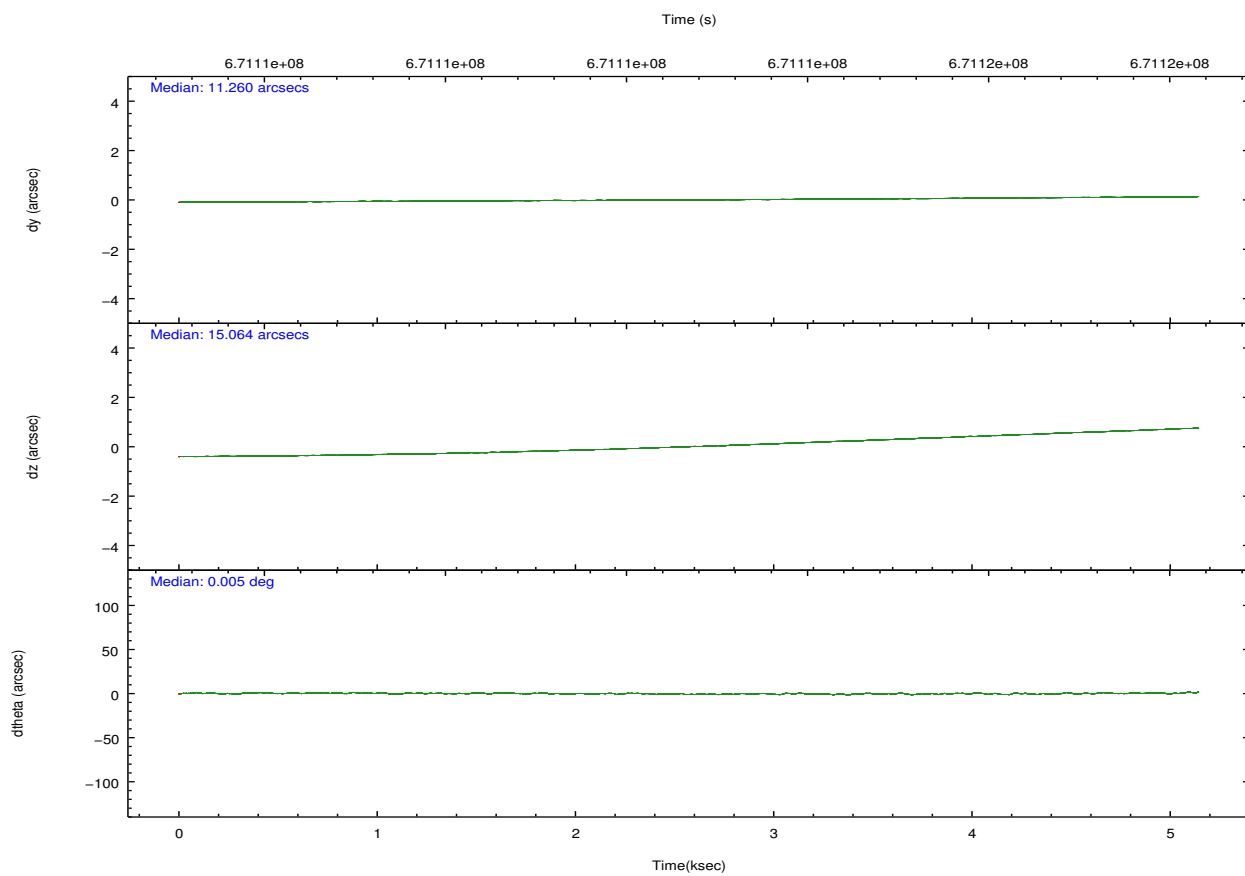
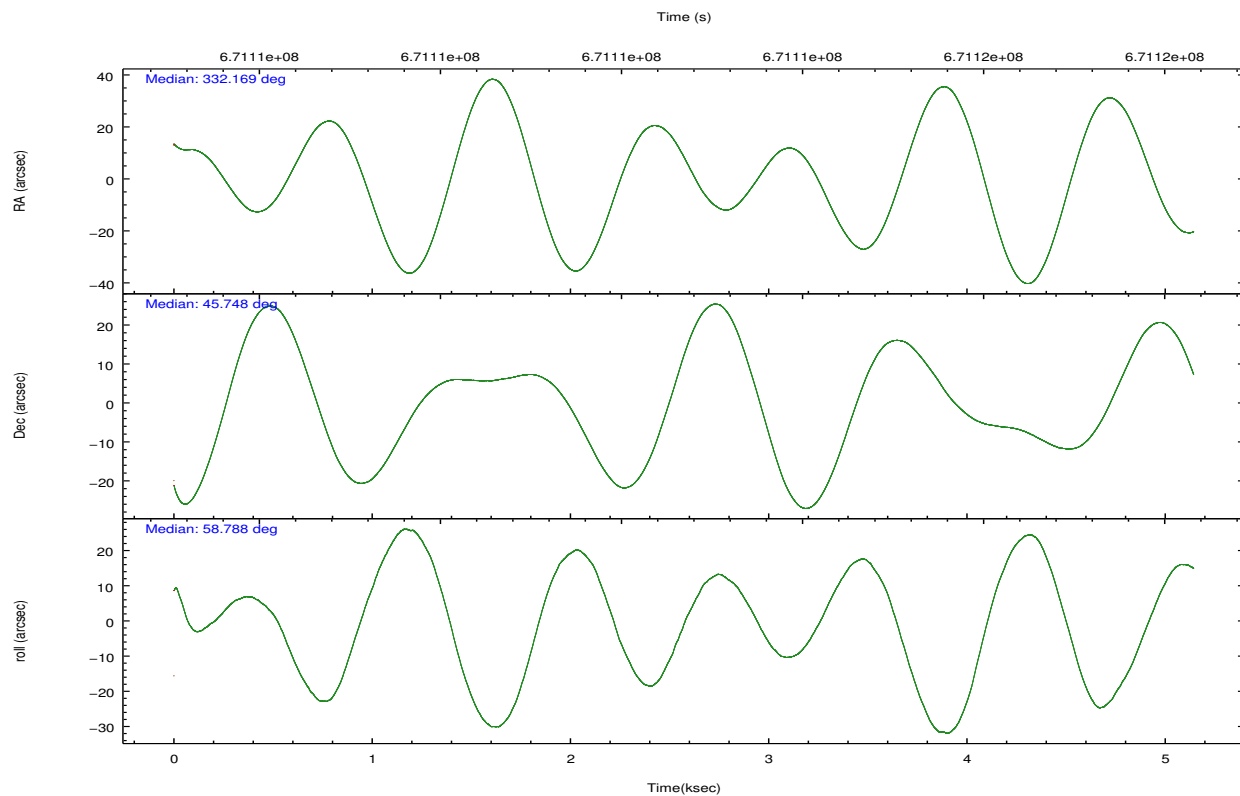
	segment 0
level 1 events	1047167
rejected events	193816
rejected %	18%

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	332.168938	332.1690388214506			
[deg] Pointing Dec	45.720468	45.74797714194586			
[deg] Pointing Roll	58.882123	58.78658145803227			
[s] Window start time (MET)	667785669.184000	667785669.184000			
[s] Window stop time (MET)	672969669.184000	672969669.184000			
[mm] SIM focus pos	-1.040293	-1.038866356238299			
[mm] SIM defocus	0	0.001426264420575141			
[mm] SIM translation stage pos	126.985494	126.9829799899862			
[mm] SIM translation stage offset	0	0.002508901615314585			
[s] Observation start time (MET)	671110904.184000	671109702.84044			
Observation start date	2019-04-08T11:40:35	2019-04-08T11:21:42			
[s] Observation end time (MET)	671115904.184000	671116037.85332			
Observation end date	2019-04-08T13:03:55	2019-04-08T13:07:17			

2.3 Aspect



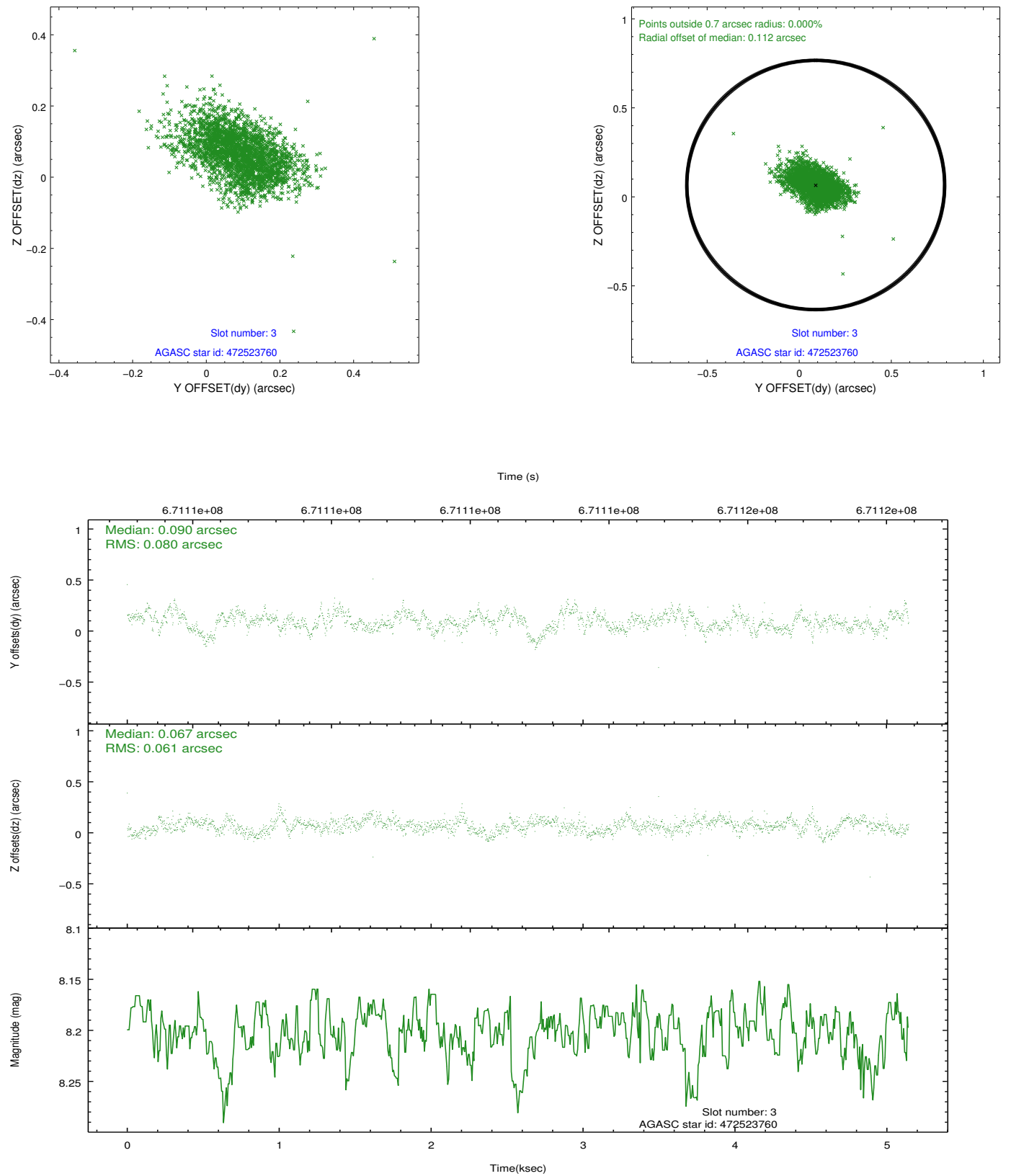


Slot Statistics

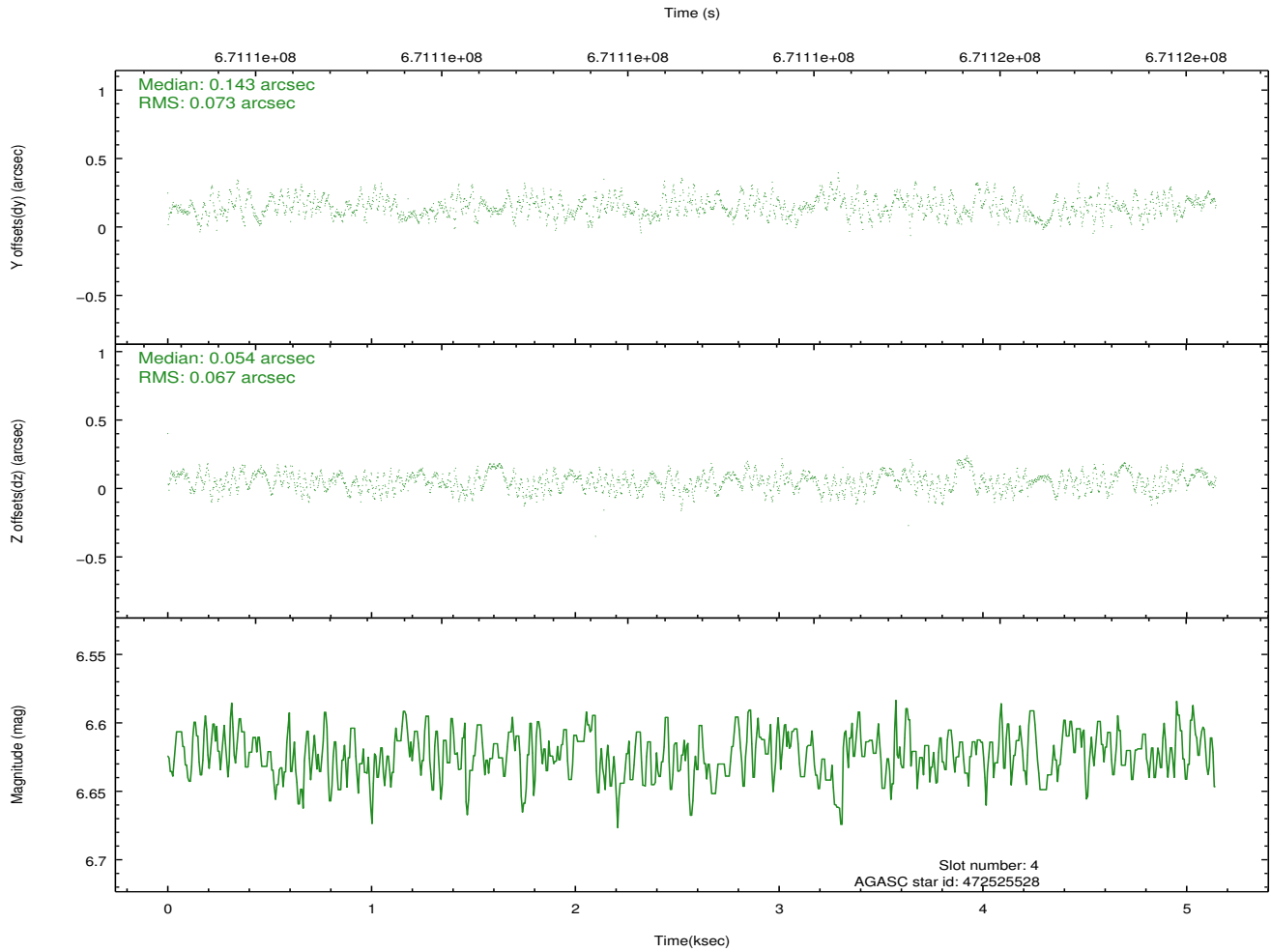
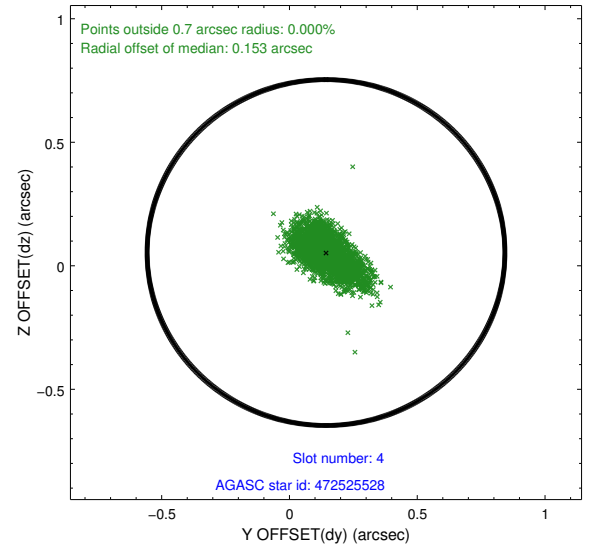
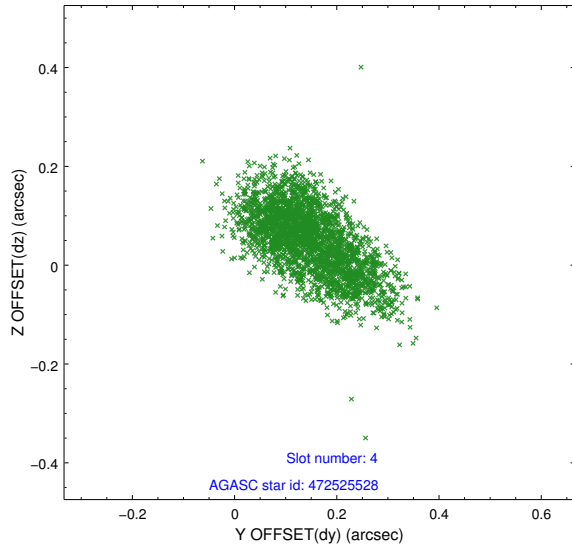
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-I-2	7.03	1255	1.000	0.030	-0.108	0.014	0.027	0.000000	0.000000	845.78	-1304
1	FID		HRC-I-3	7.08	1254	1.000	-0.346	-0.024	0.011	0.019	0.000000	0.000000	-1195.18	1000
2	FID		HRC-I-4	7.01	1255	1.000	0.434	0.046	0.009	0.015	0.000000	0.000000	1275.25	999
3	GUIDE	used	472523760	8.20	2510	1.000	0.090	0.067	0.104	0.176	331.645363	45.403260	-1658.73	545
4	GUIDE	used	472525528	6.62	2510	1.000	0.143	0.054	0.103	0.173	331.551102	45.248694	-2259.16	465
5	GUIDE	used	472665256	8.97	2508	1.000	-0.069	0.260	0.131	0.220	332.808125	46.195041	2289.52	-477
6	GUIDE	used	472533912	9.11	2507	1.000	-0.166	-0.374	0.147	0.249	331.791136	46.368695	1514.76	2010
7	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0

2.4 Star Slots

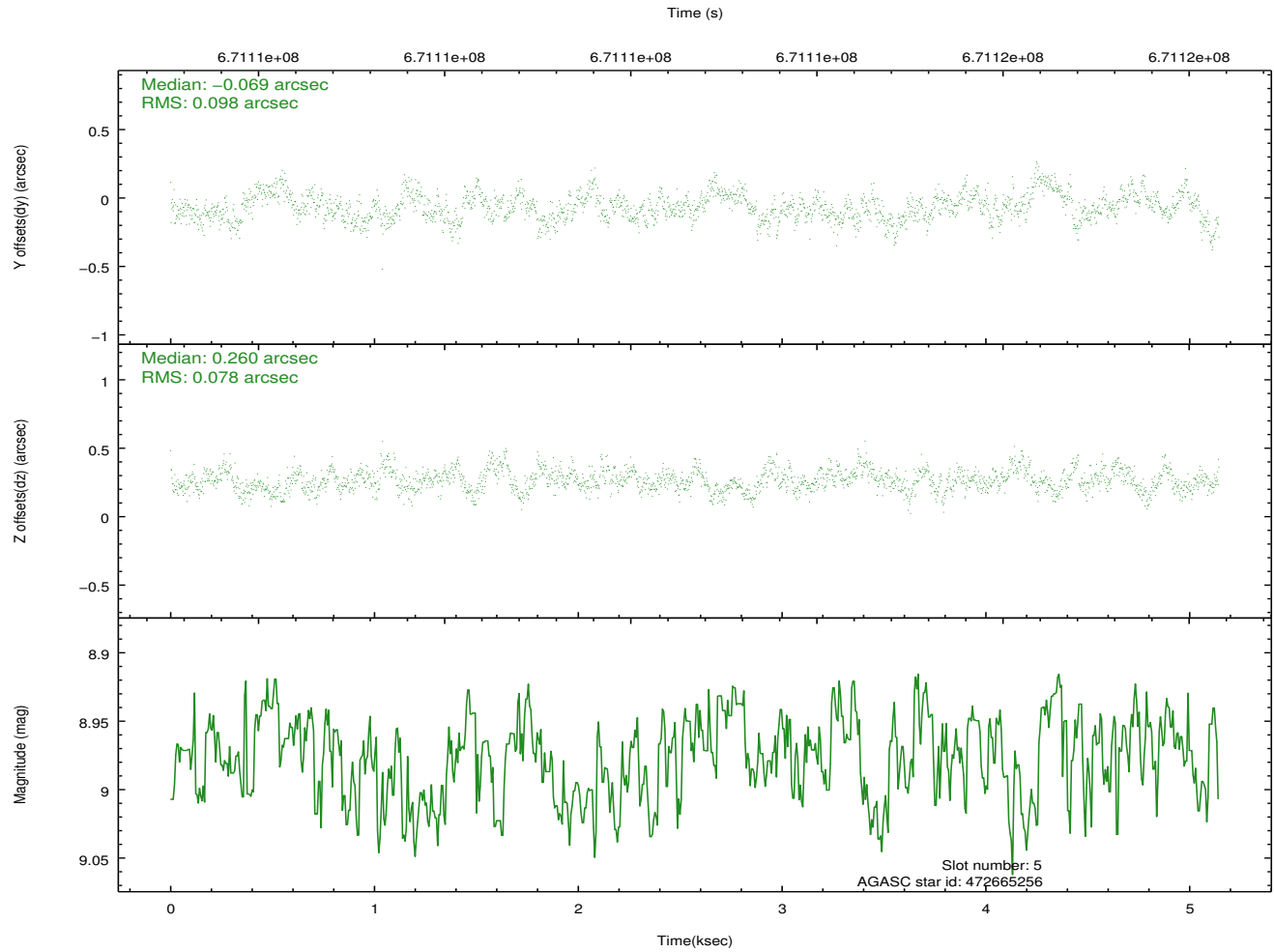
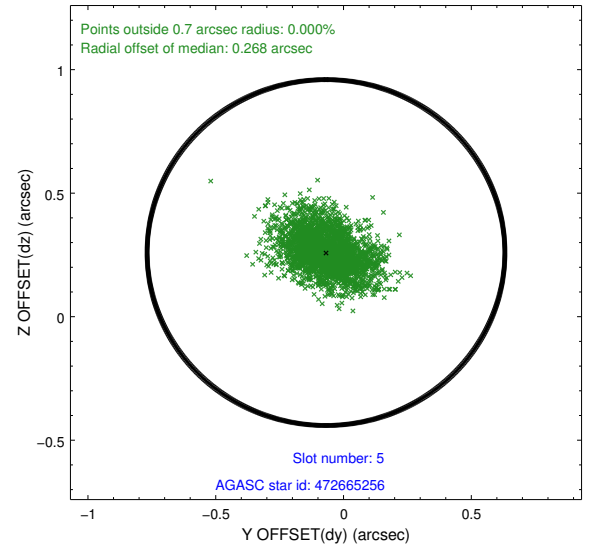
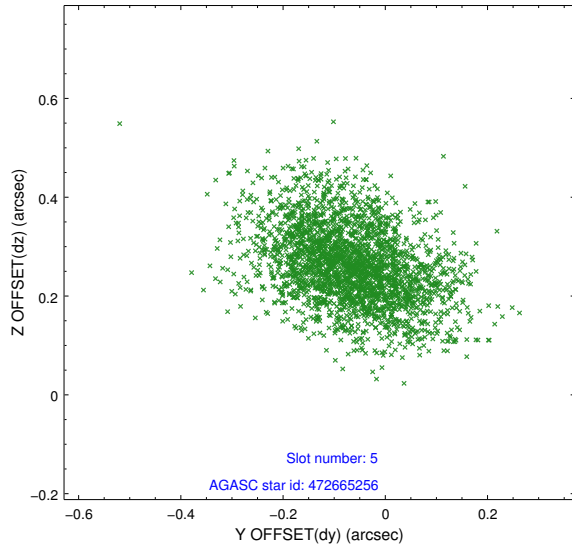
2.4.1 Slot 3



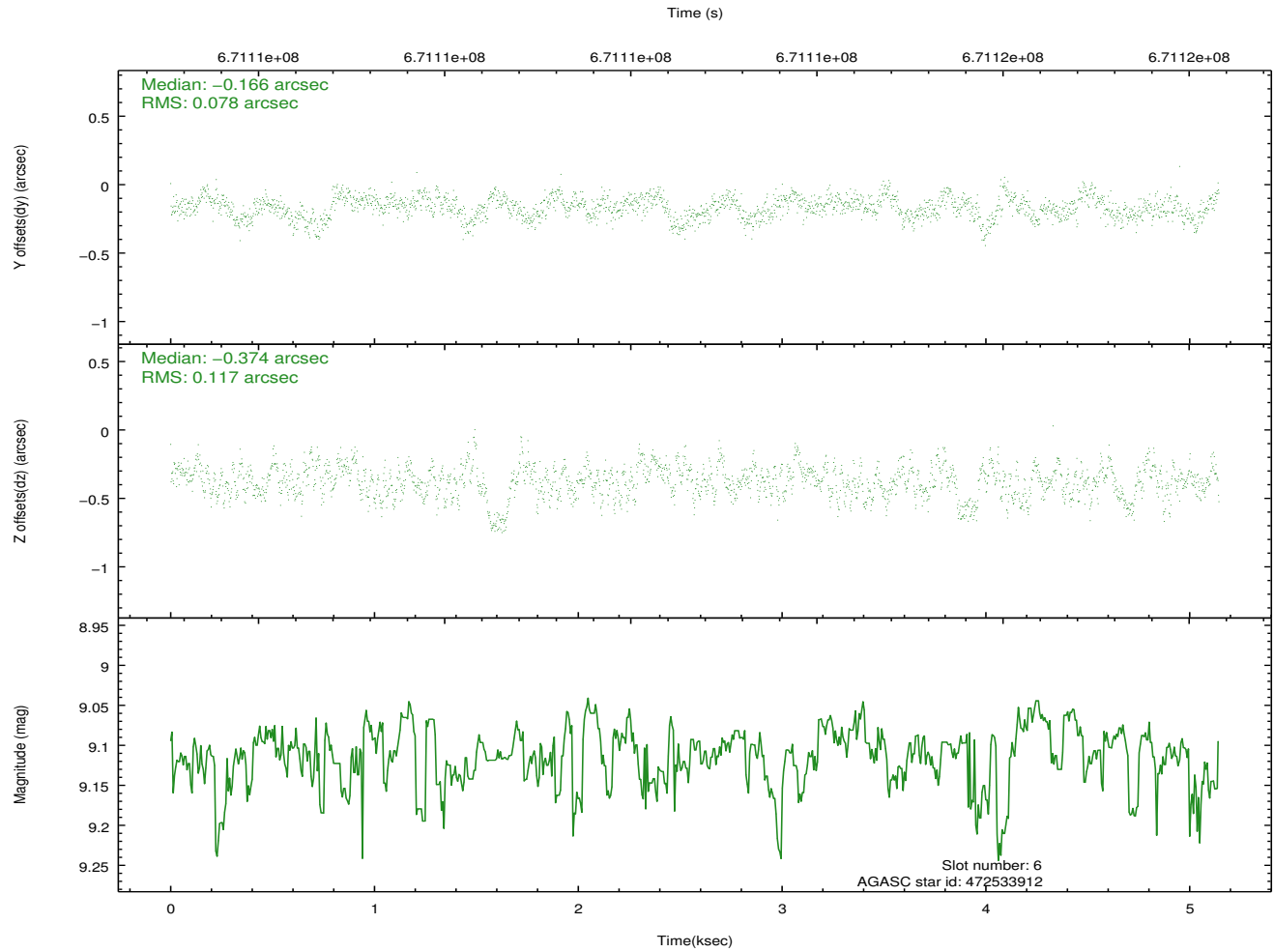
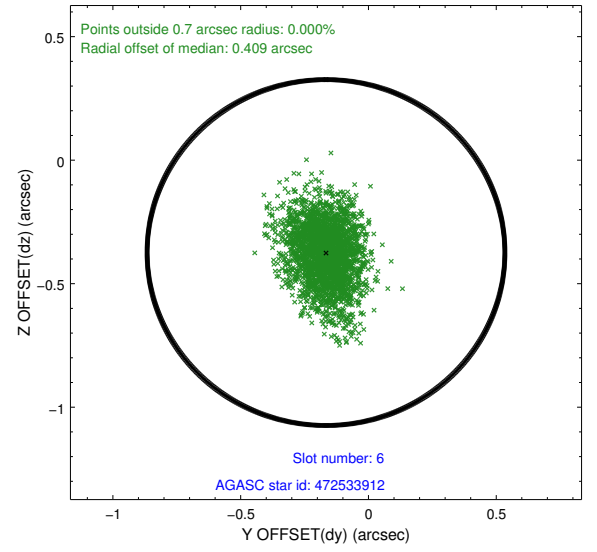
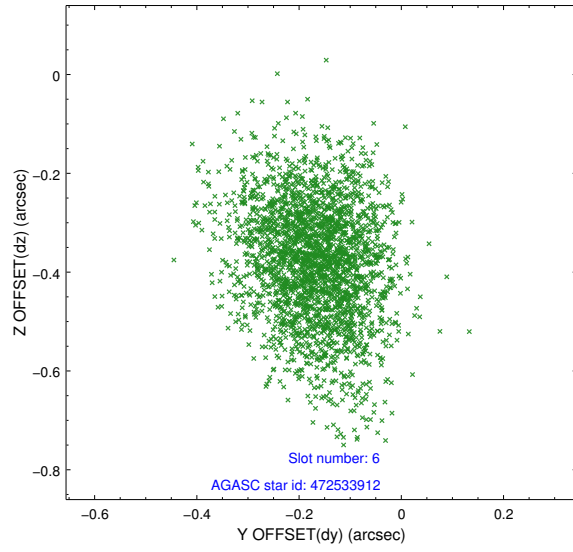
2.4.2 Slot 4



2.4.3 Slot 5

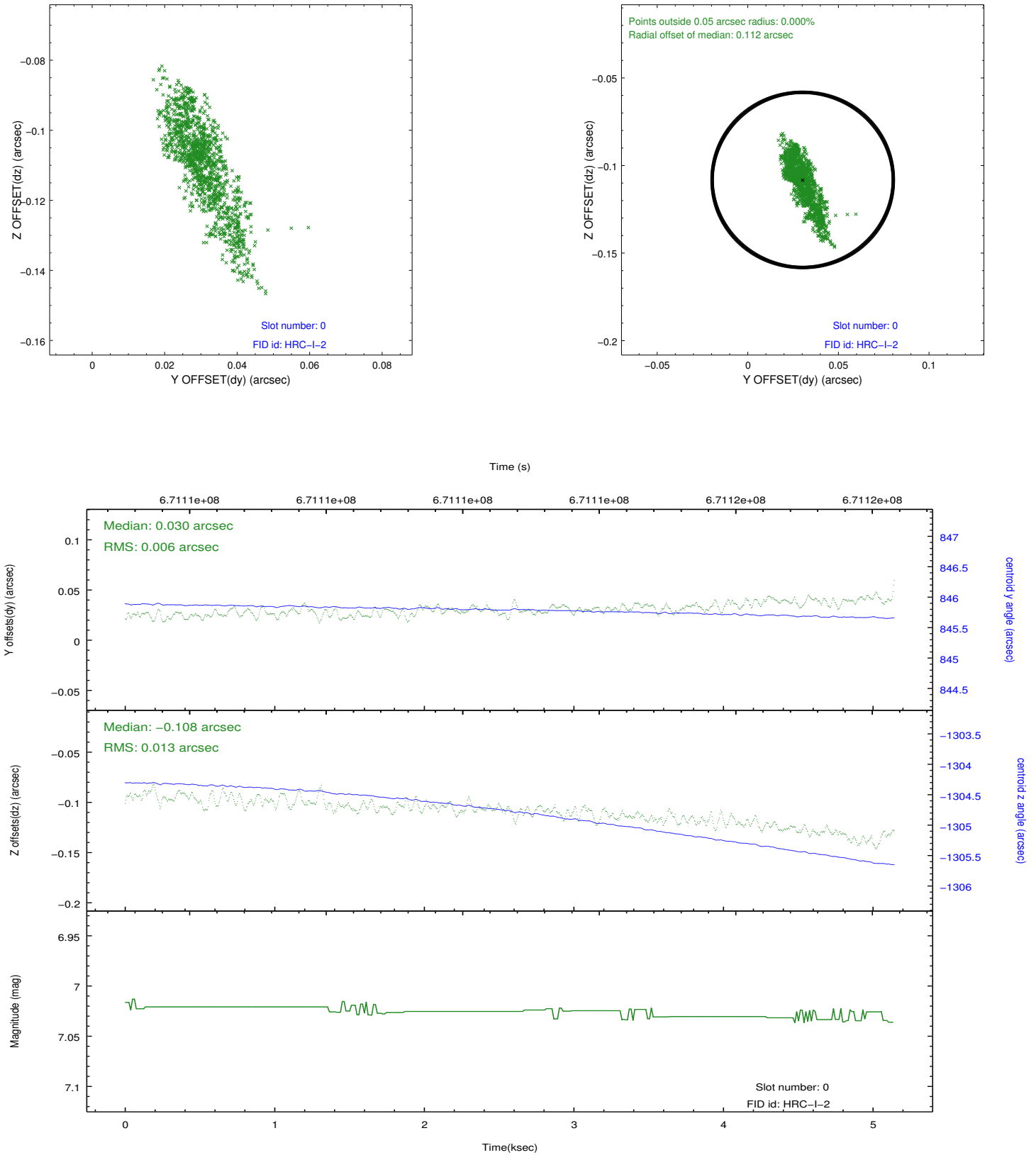


2.4.4 Slot 6

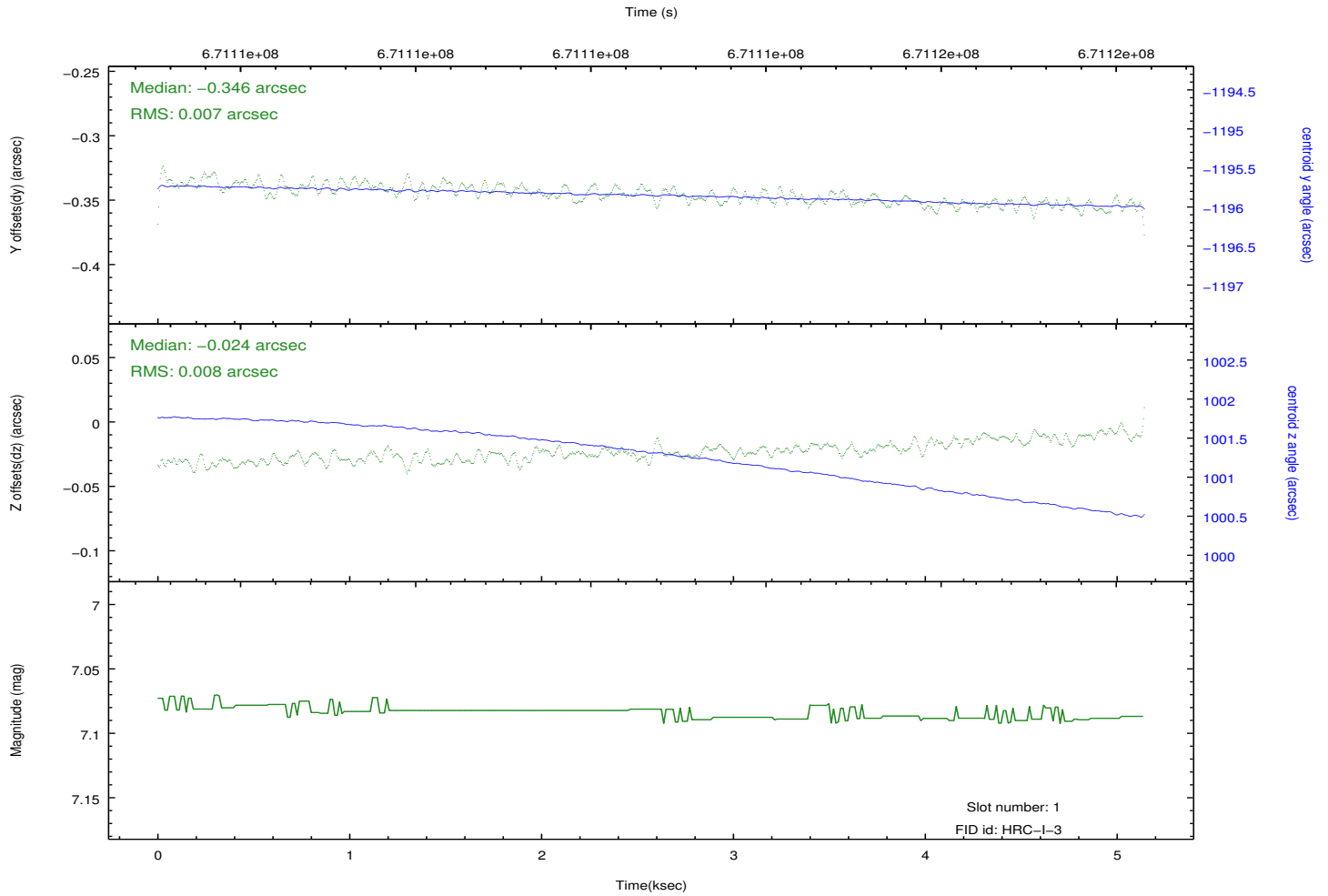
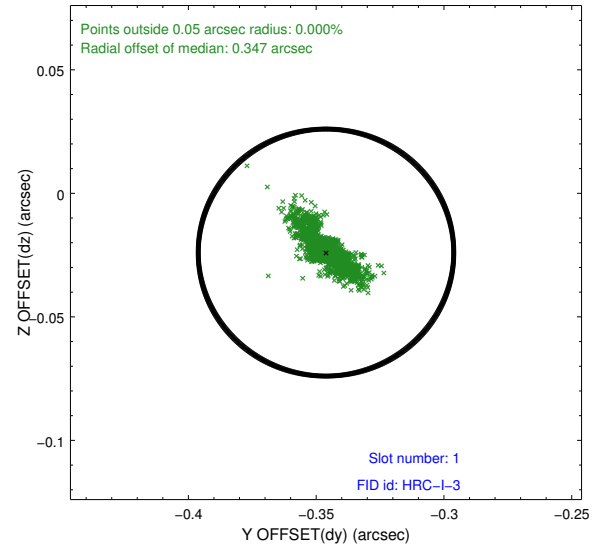
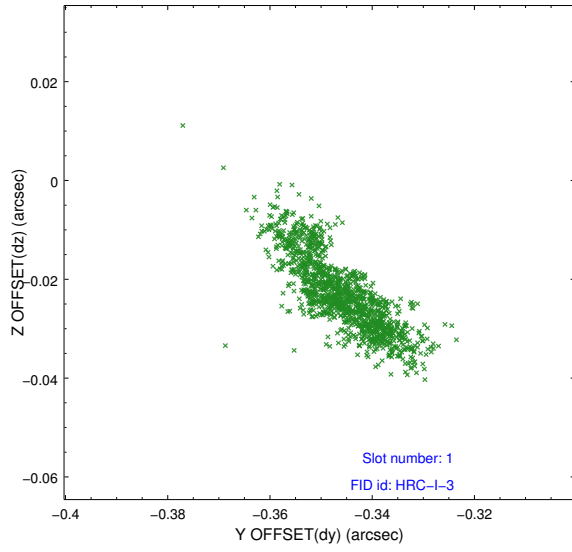


2.5 FID Slots

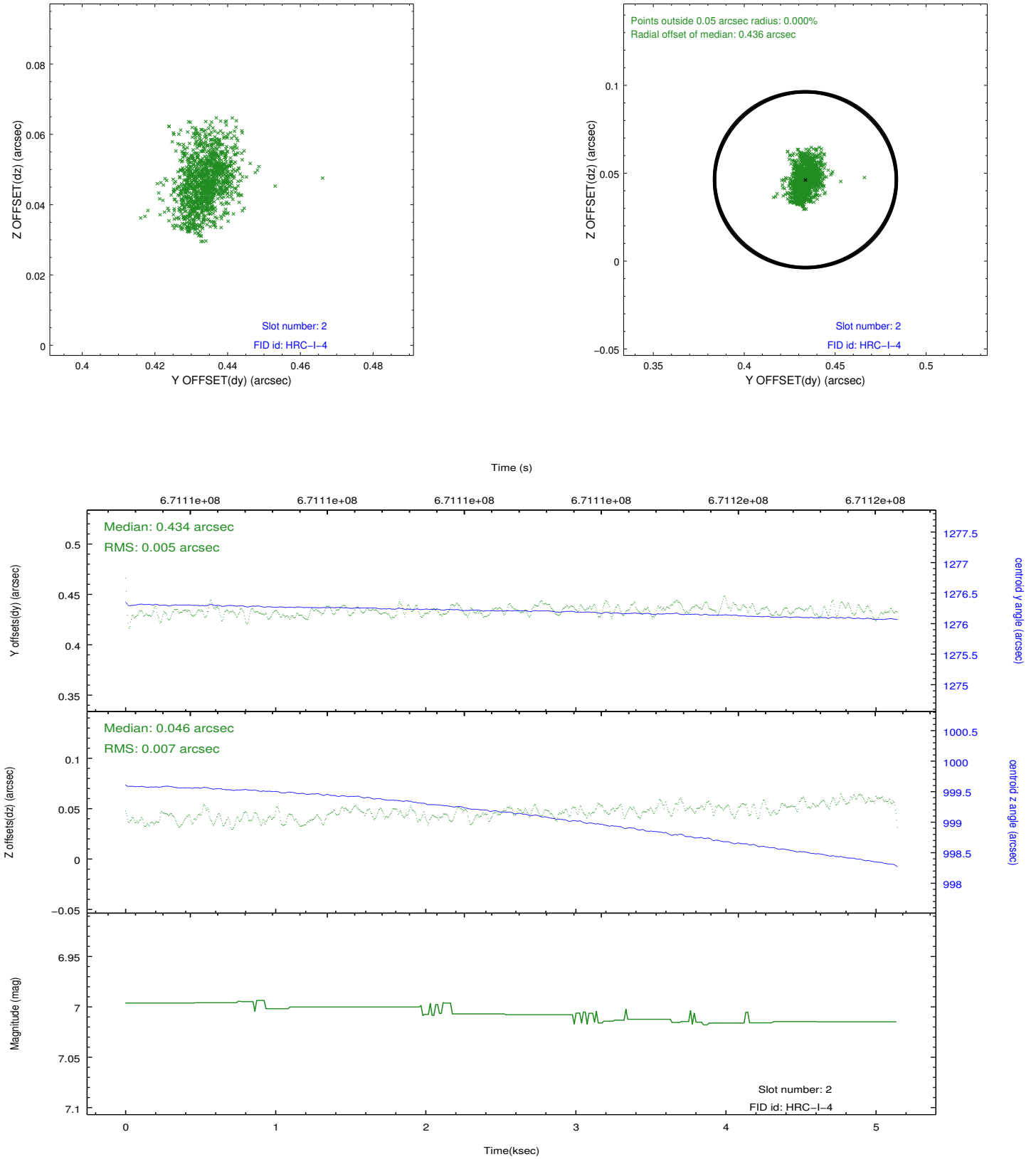
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2019.04.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.1426815577745

A.2 Comments

Window constraint met.

The guide star in slot 7 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this slot from the solution.