

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 21797 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : Apr 4 2019

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

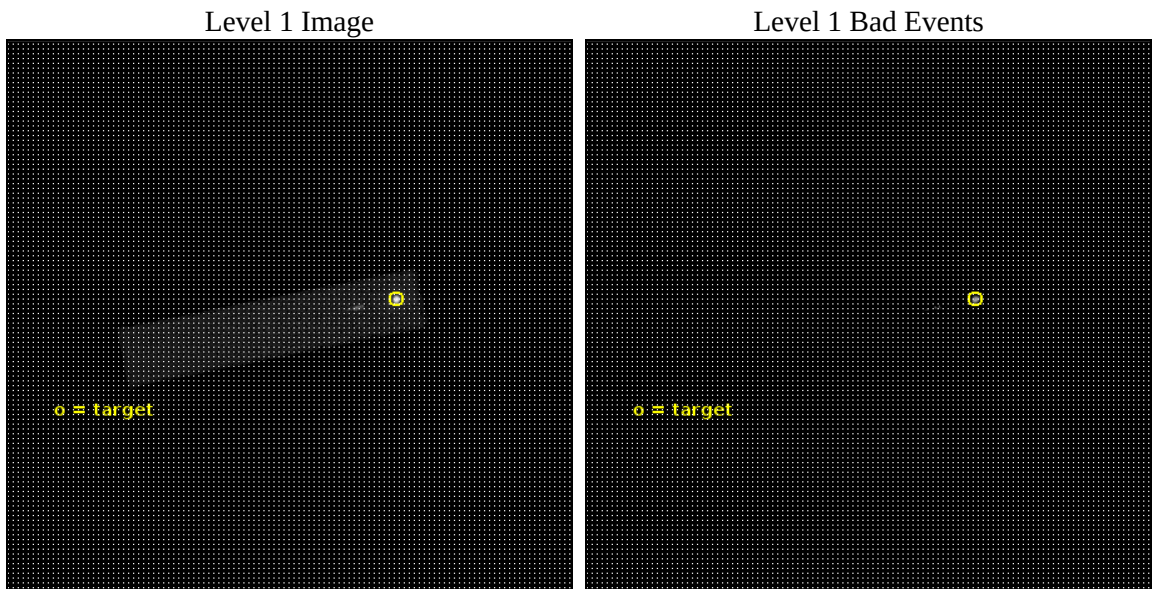
seq_num	291483	Sequence number
obs_id	21797	Observation id
title	AO-20 HRC-S Gain Calibration Observations of HZ43	Proposal title
observer	CXC Calibration	Principal investigator
object	HZ43	Source name
ra_targ	199.090076	Observer's specified target RA [deg]
dec_targ	29.098119	Observer's specified target Dec [deg]
ra_nom	199.31879084579	Nominal RA [deg]
dec_nom	29.050671813246	Nominal Dec [deg]
roll_nom	167.97406960178	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1891.3813632727	[s]
livetime	1148.9337131868	Ontime multiplied by DTCOR
l2events	333054	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	1700.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	1891.3813632727	[s]
caldbver	4.8.2	 	l1events	407106	Number of level 1 events
date	2019-04-04T11:37:11	Date and time of file creation			
revision	1	Processing version of data			

2.1.3 Events

Level 1 Events

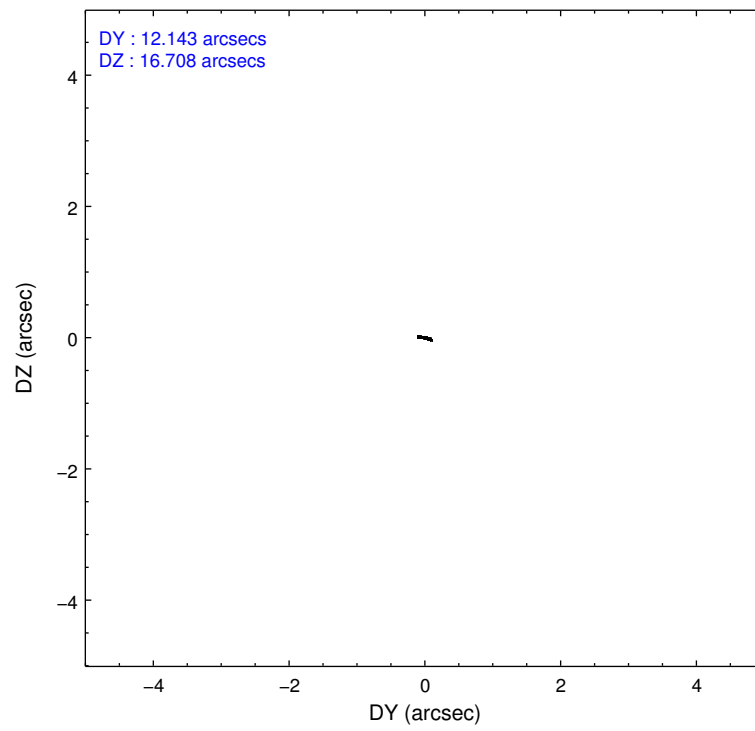
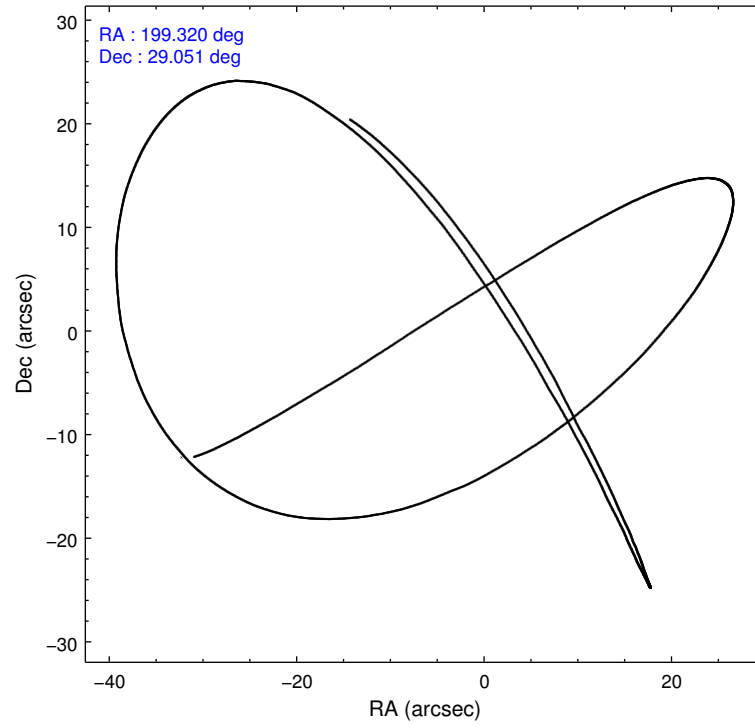
	segment 1	segment 2	segment 3
level 1 events	579	405939	588
rejected events	579	57189	588
rejected %	100%	14%	100%

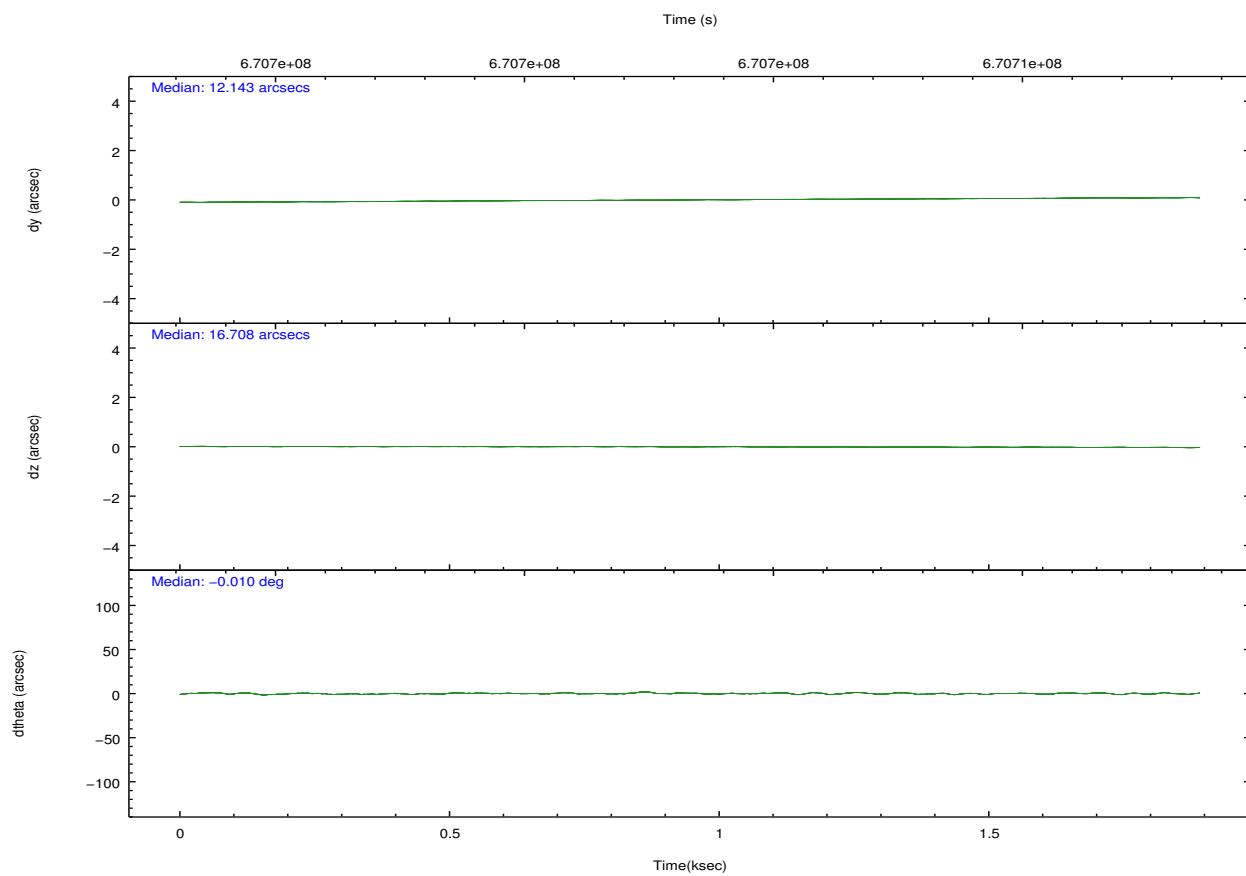
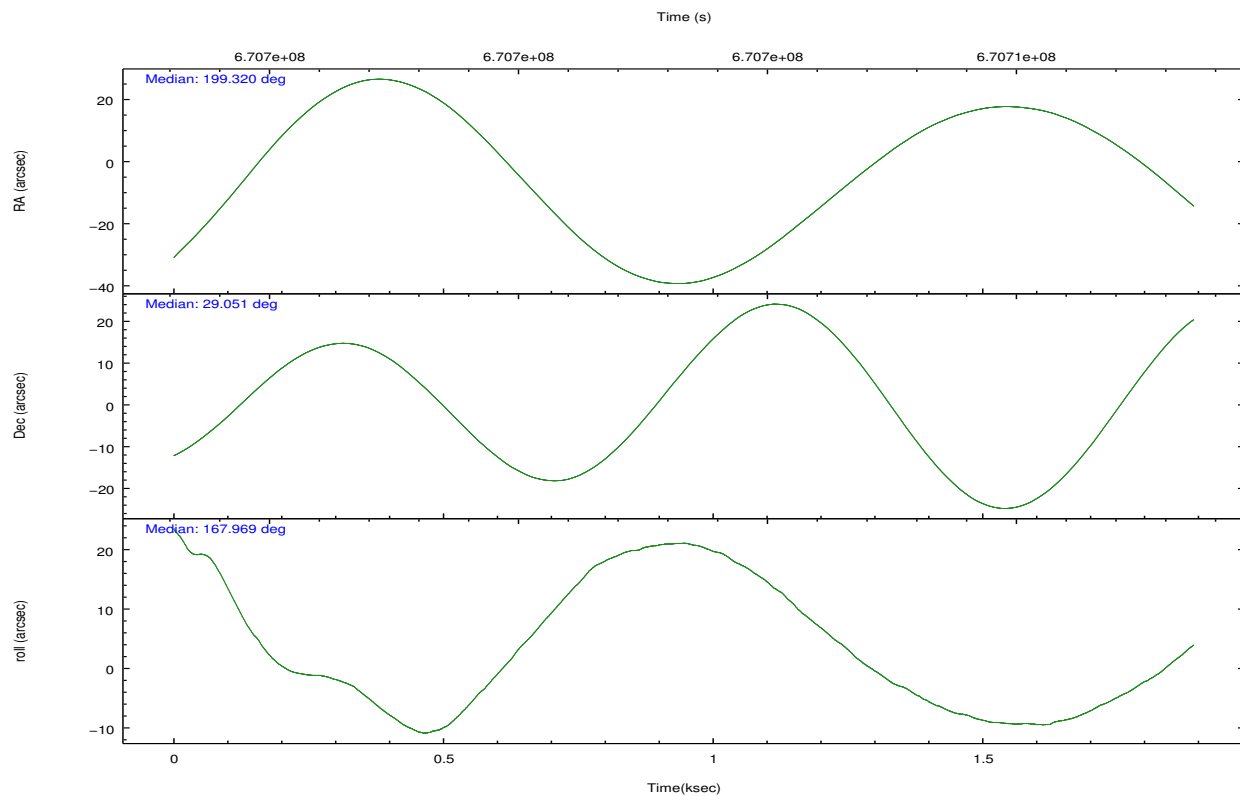
2.2 Compared Parameters

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	199.348202	199.3187908457932
[deg] Pointing Dec	29.061158	29.05067181324607
[deg] Pointing Roll	167.892433	167.9740696017812
[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)	670704062.184000	670703686.47865
Observation start date	2019-04-03T18:39:53	2019-04-03T18:34:46
[s] Observation end time (MET)	670705762.184000	670705896.37879
Observation end date	2019-04-03T19:08:13	2019-04-03T19:11:36

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

2.3 Aspect



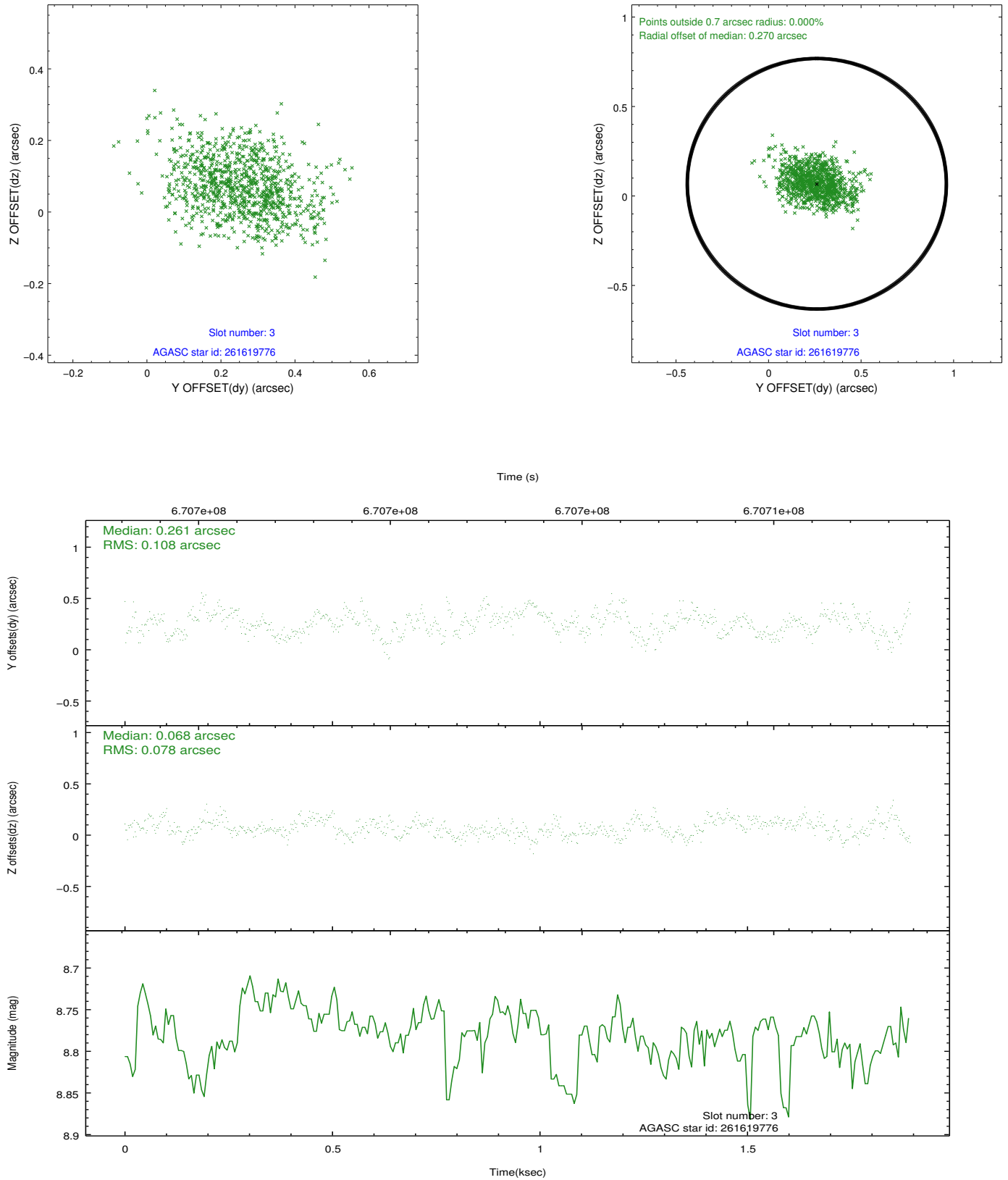


Slot Statistics

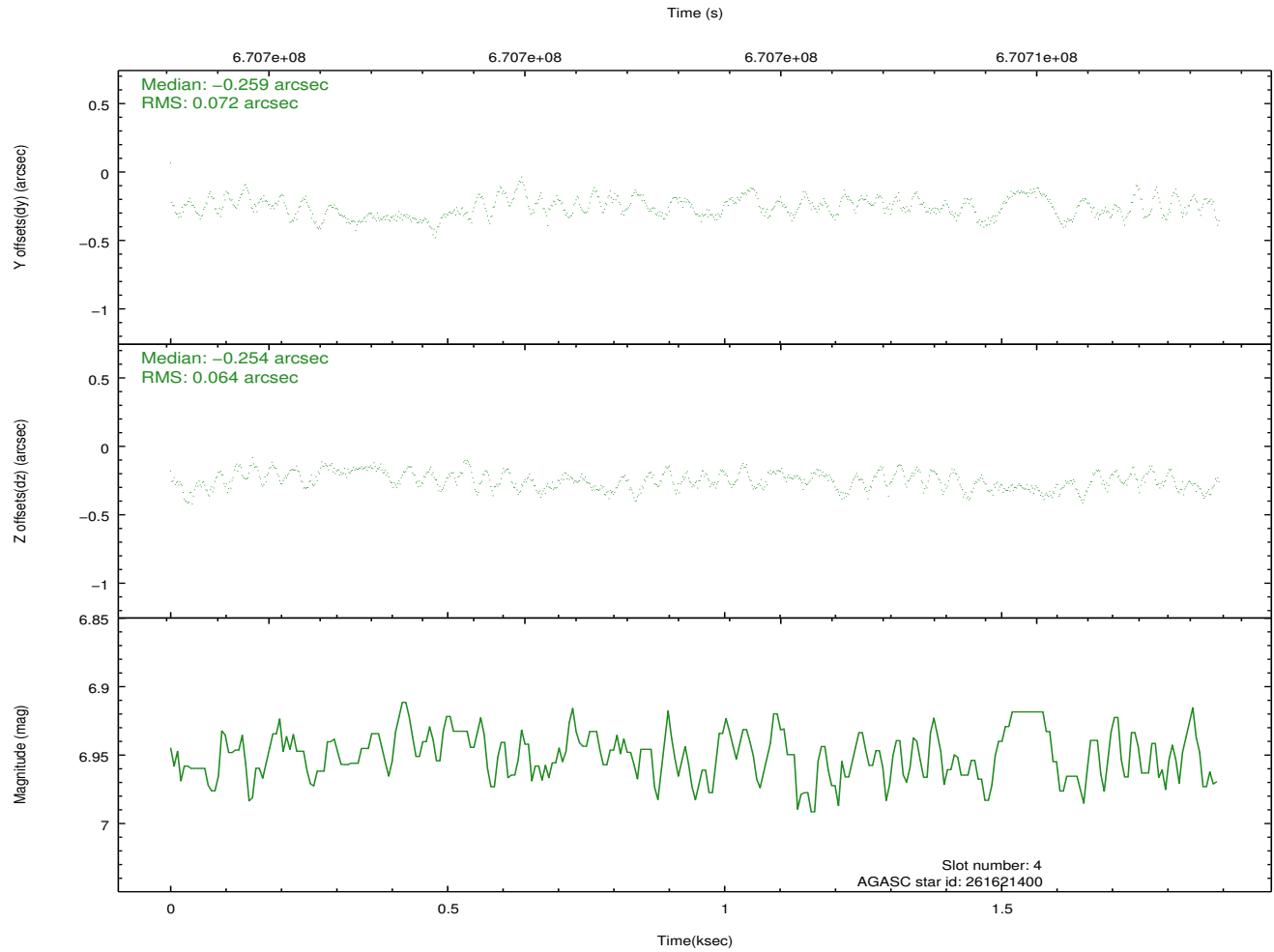
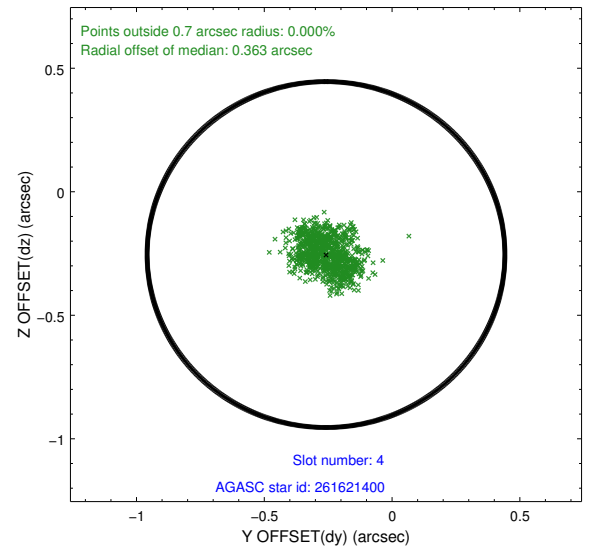
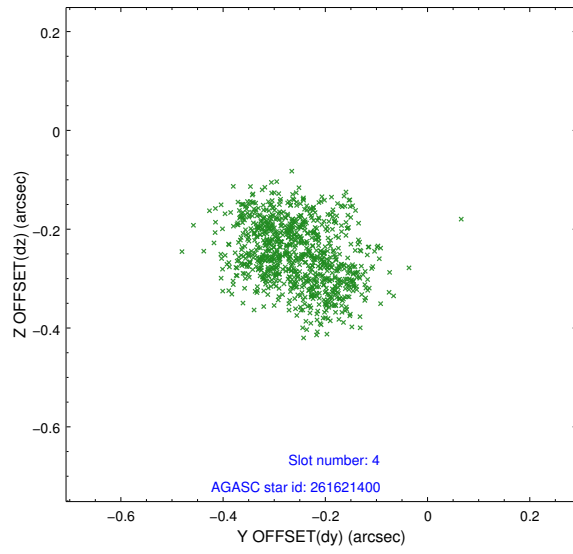
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-S-1	7.10	462	1.000	-0.108	-0.182	0.008	0.013	0.000000	0.000000	-1166.58	-465
1	FID		HRC-S-2	7.08	462	1.000	0.508	-0.159	0.005	0.009	0.000000	0.000000	1231.17	-459
2	FID		HRC-S-3	7.07	462	1.000	-0.010	0.038	0.008	0.013	0.000000	0.000000	-1166.65	563
3	GUIDE	used	261619776	8.78	924	1.000	0.261	0.068	0.139	0.226	198.654383	29.401174	2389.82	-745
4	GUIDE	used	261621400	6.95	924	1.000	-0.259	-0.254	0.106	0.154	198.901600	28.741982	1145.69	1415
5	GUIDE	used	261623624	9.09	921	1.000	0.076	0.039	0.161	0.261	199.611555	28.454113	-1266.31	1962
6	GUIDE	used	261624456	7.29	924	1.000	-0.027	0.162	0.111	0.192	199.758056	28.567828	-1633.91	1463
7	GUIDE	used	261629720	8.09	923	1.000	-0.053	-0.029	0.104	0.167	199.236176	29.044452	335.59	134

2.4 Star Slots

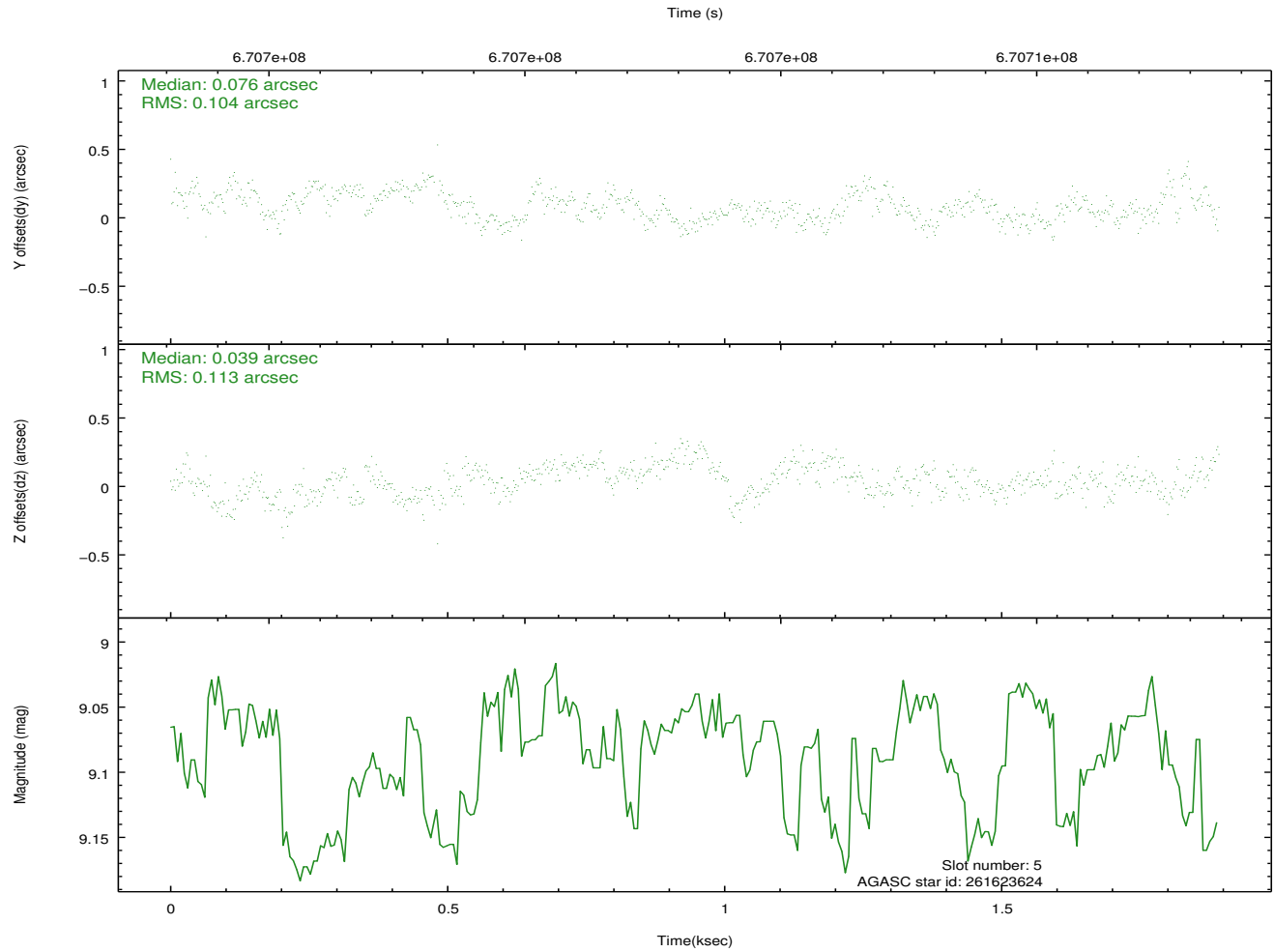
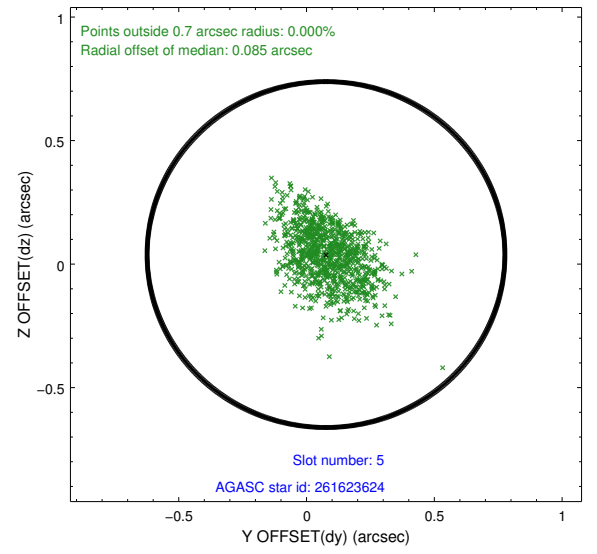
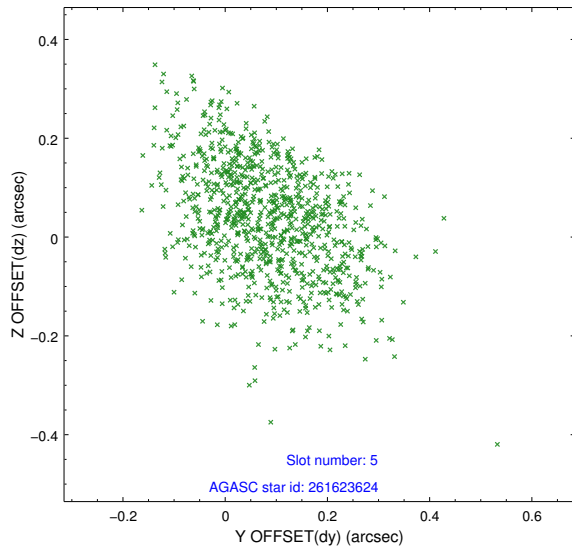
2.4.1 Slot 3



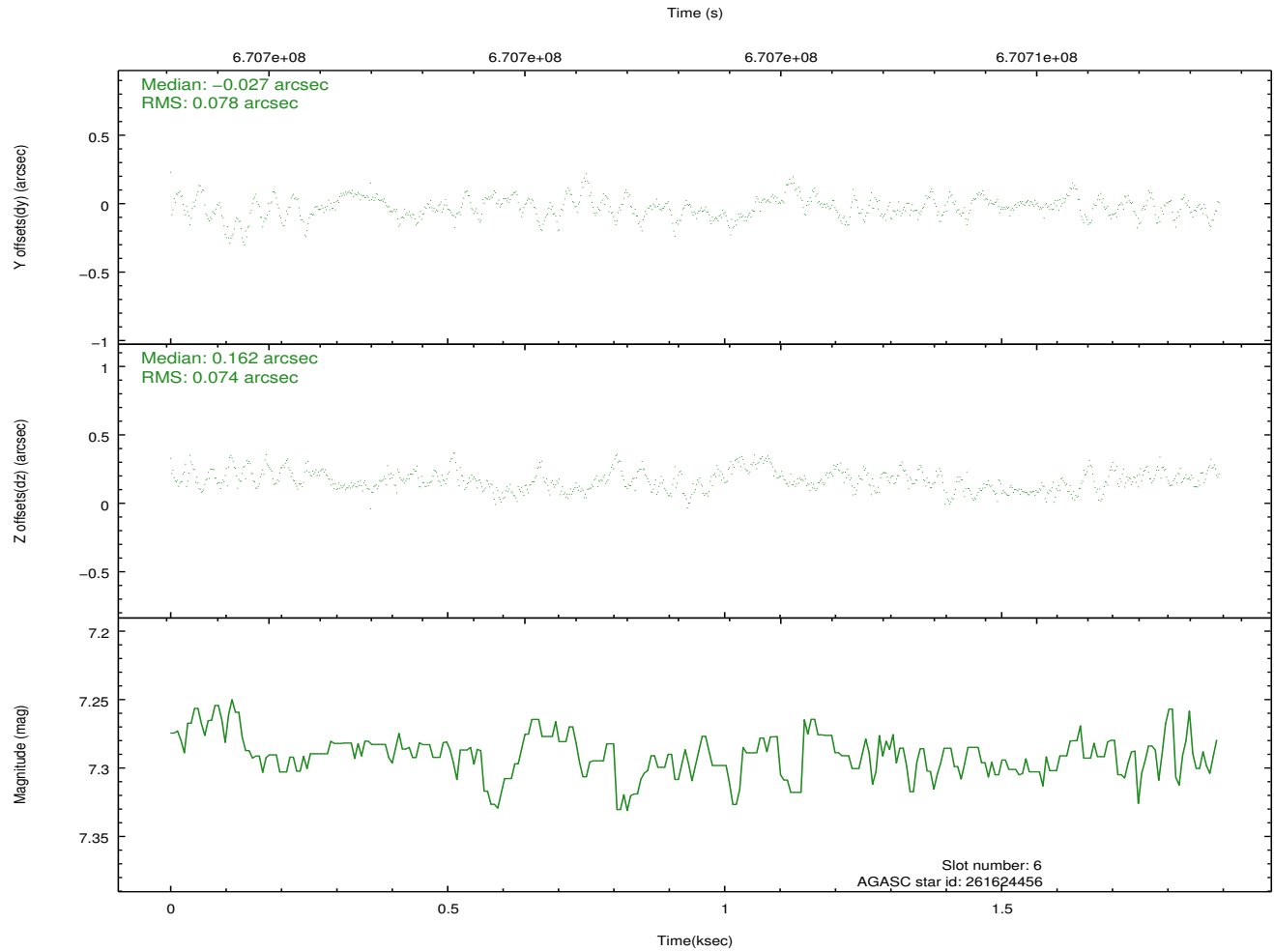
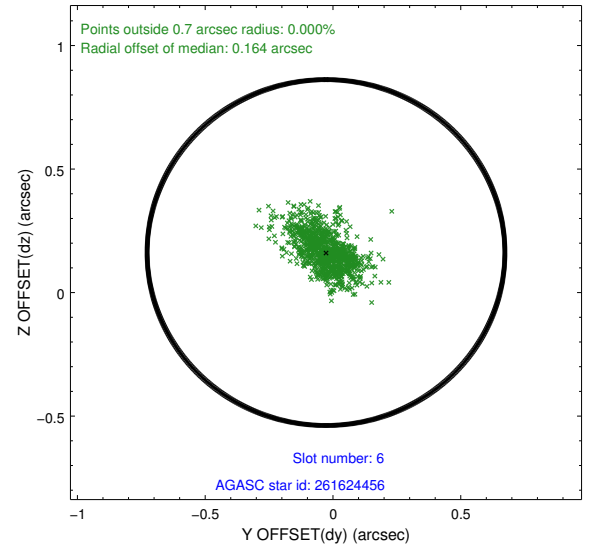
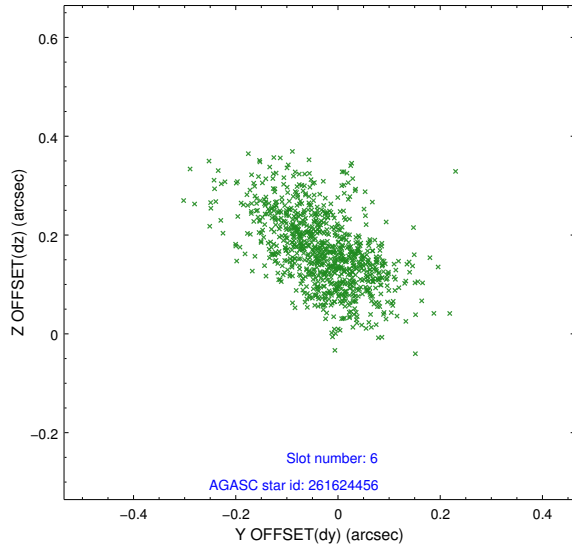
2.4.2 Slot 4



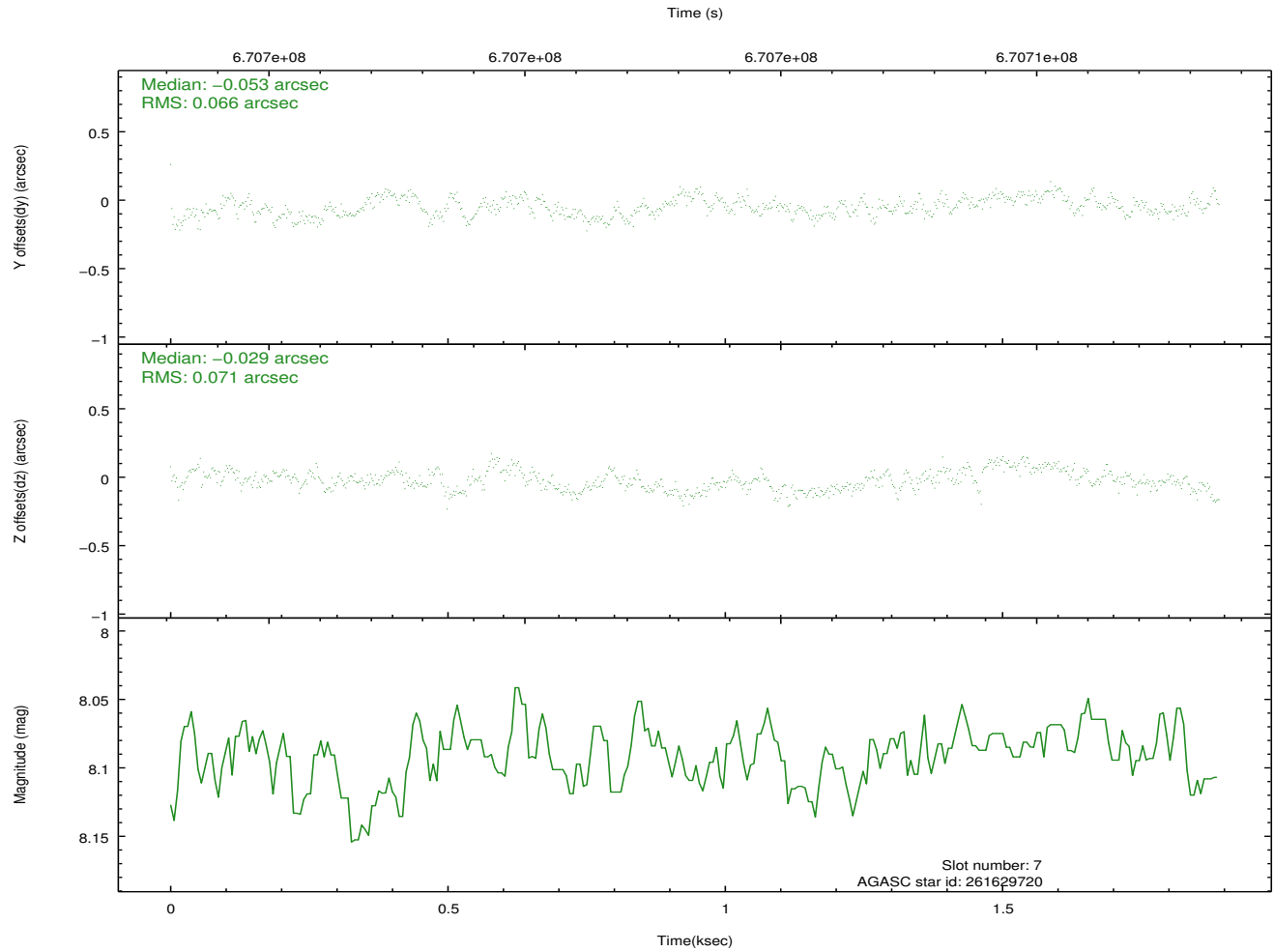
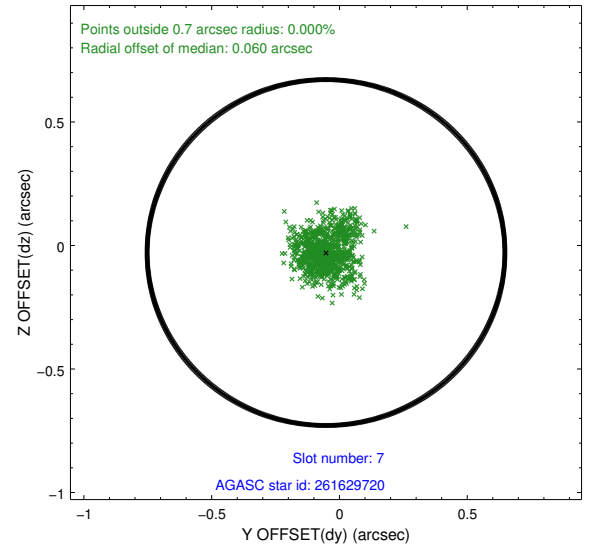
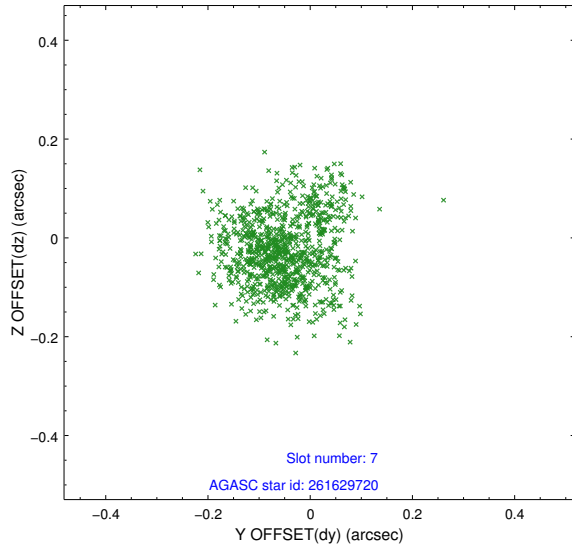
2.4.3 Slot 5



2.4.4 Slot 6

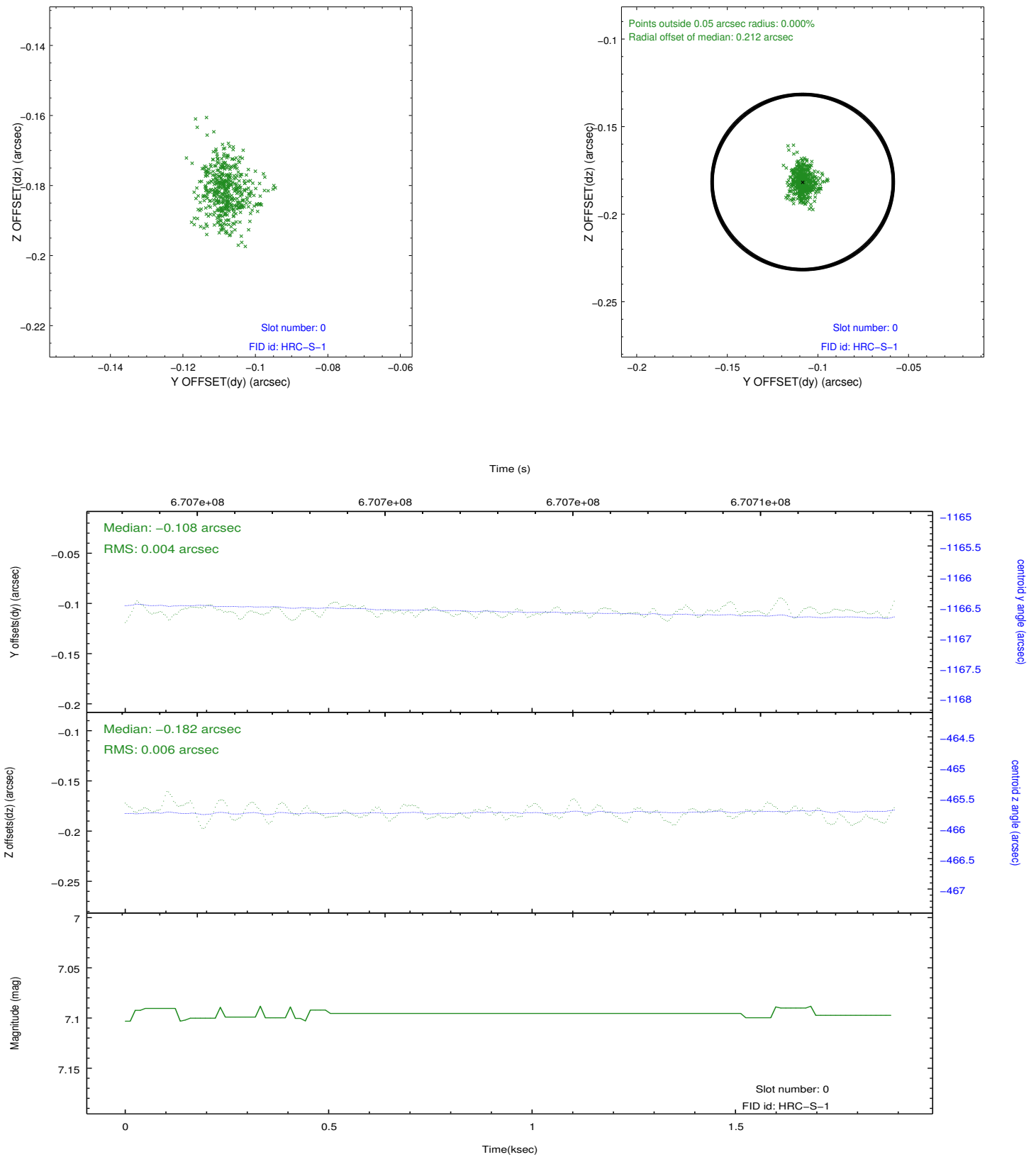


2.4.5 Slot 7

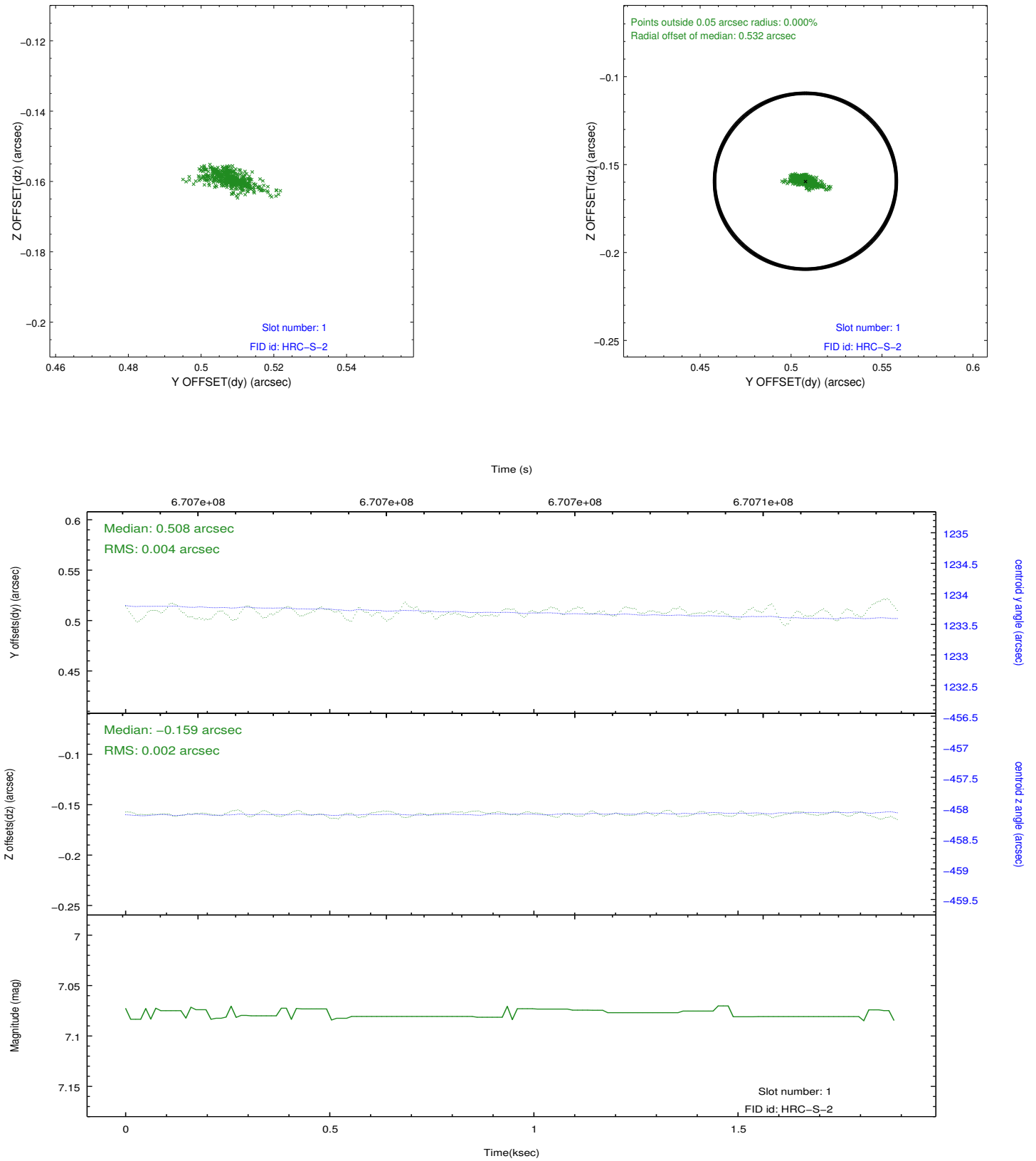


2.5 FID Slots

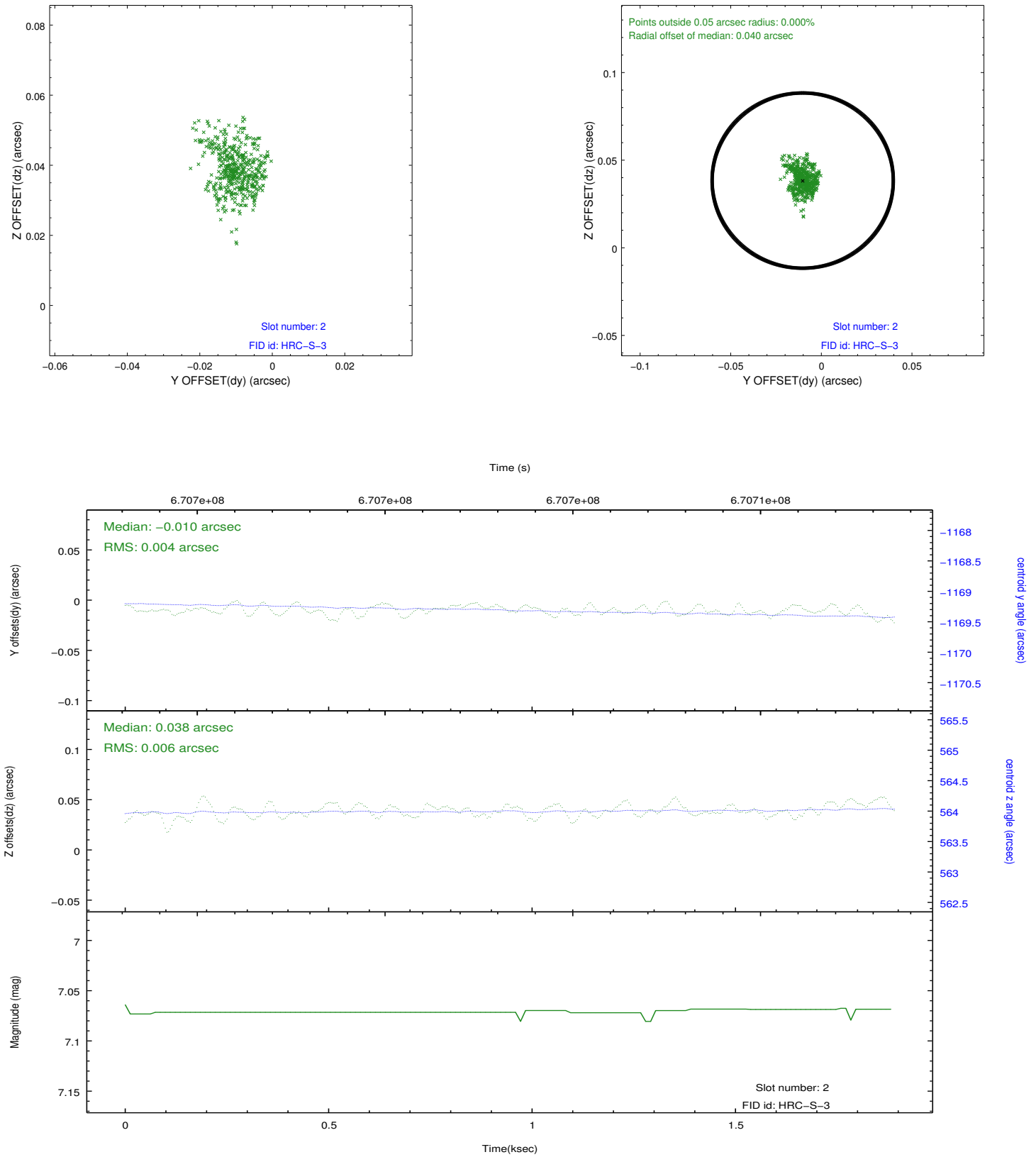
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2019.04.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.8913813632727

A.2 Comments