

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 21768 - L2 Version 1
Chandra X-Ray Center

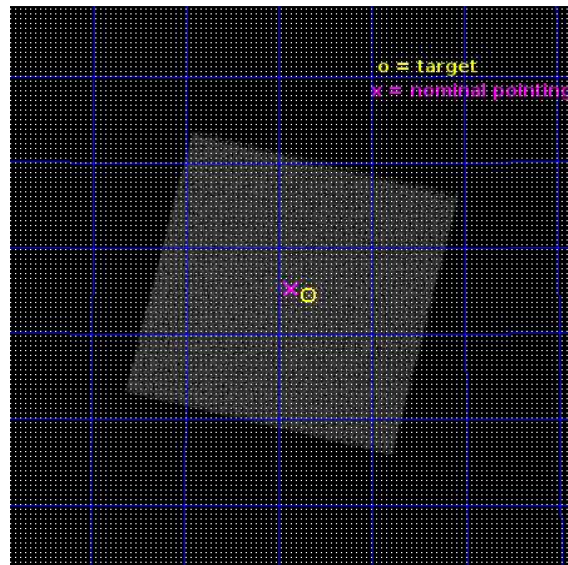
L2 Processing Date : Apr 8 2019

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1 Front

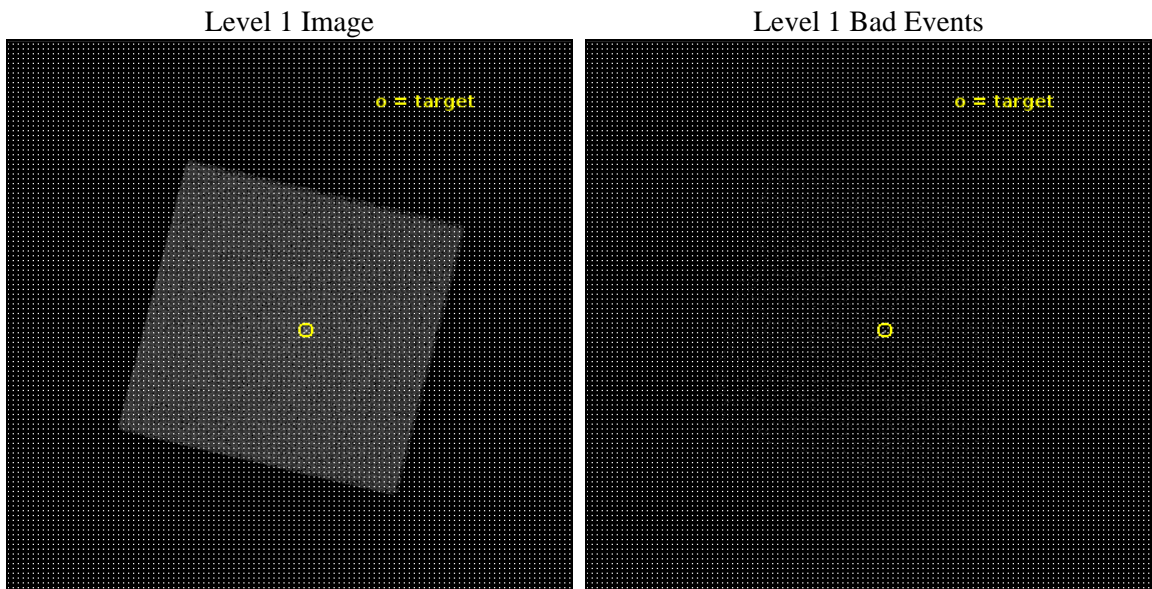
seq_num	291454	Sequence number
obs_id	21768	Observation id
title	AO-20 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.169666	Observer's specified target RA [deg]
dec_targ	45.742509	Observer's specified target Dec [deg]
ra_nom	332.21590520589	Nominal RA [deg]
dec_nom	45.755089758654	Nominal Dec [deg]
roll_nom	58.909270005798	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1198.4813218117	[s]
livetime	1180.9054992604	Ontime multiplied by DTCOR
l2events	152913	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	10.7.1	Processing system revision	ontime	1198.4813218117	[s]
caldbver	4.8.2	 	l1events	251761	Number of level 1 events
date	2019-04-08T22:59:55	Date and time of file creation			
revision	1	Processing version of data			

2.1.3 Events

Level 1 Events

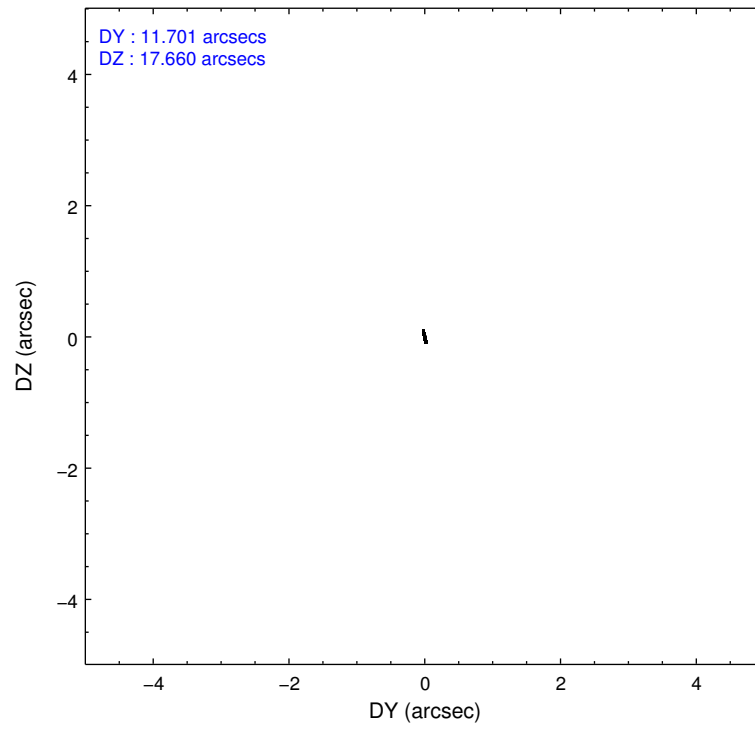
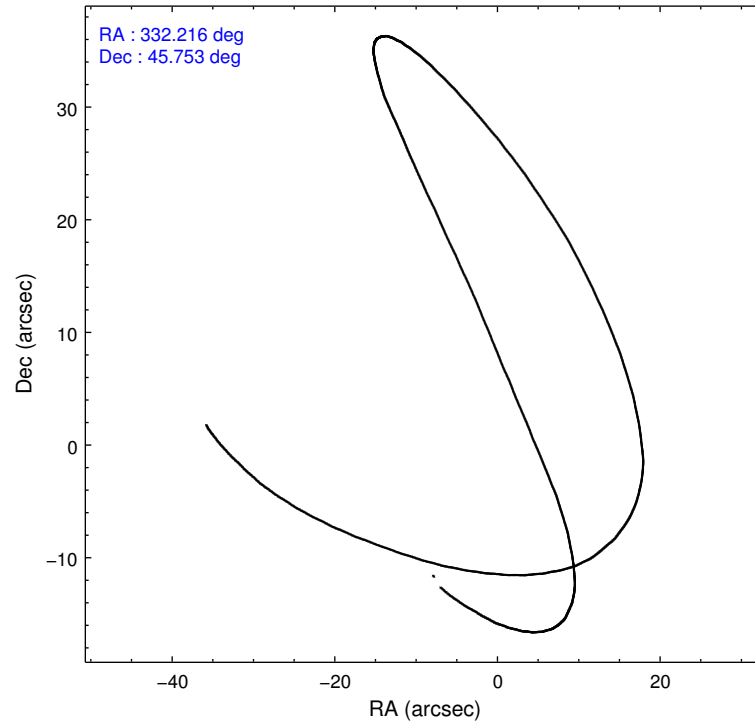
	segment 0
level 1 events	251761
rejected events	51795
rejected %	20%

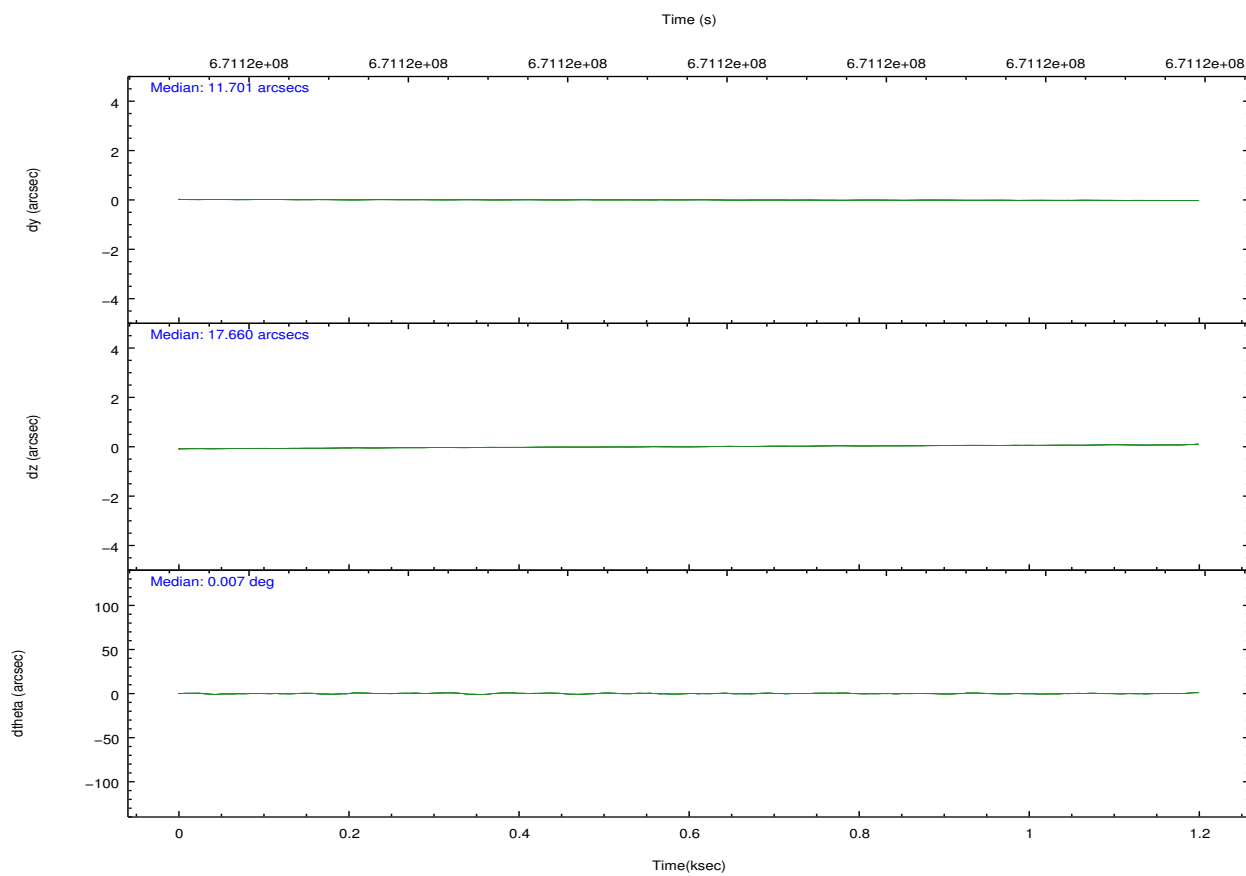
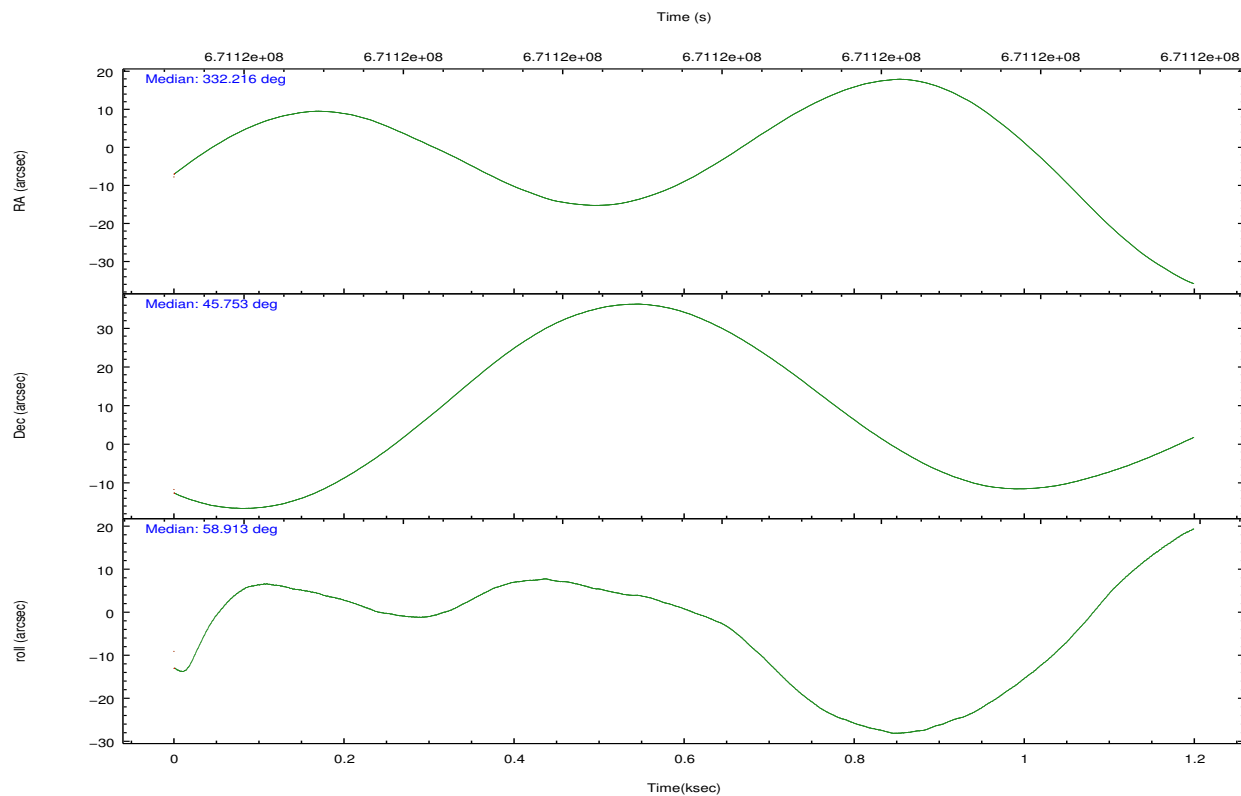
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-I	HRC-I
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	332.215374	332.2159052058913
[deg] Pointing Dec	45.728650	45.7550897586537
[deg] Pointing Roll	59.005426	58.90927000579759
[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)	671123964.184000	671123588.00377
Observation start date	2019-04-08T15:18:15	2019-04-08T15:13:08
[s] Observation end time (MET)	671124964.184000	671125097.8288701
Observation end date	2019-04-08T15:34:55	2019-04-08T15:38:17

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

2.3 Aspect



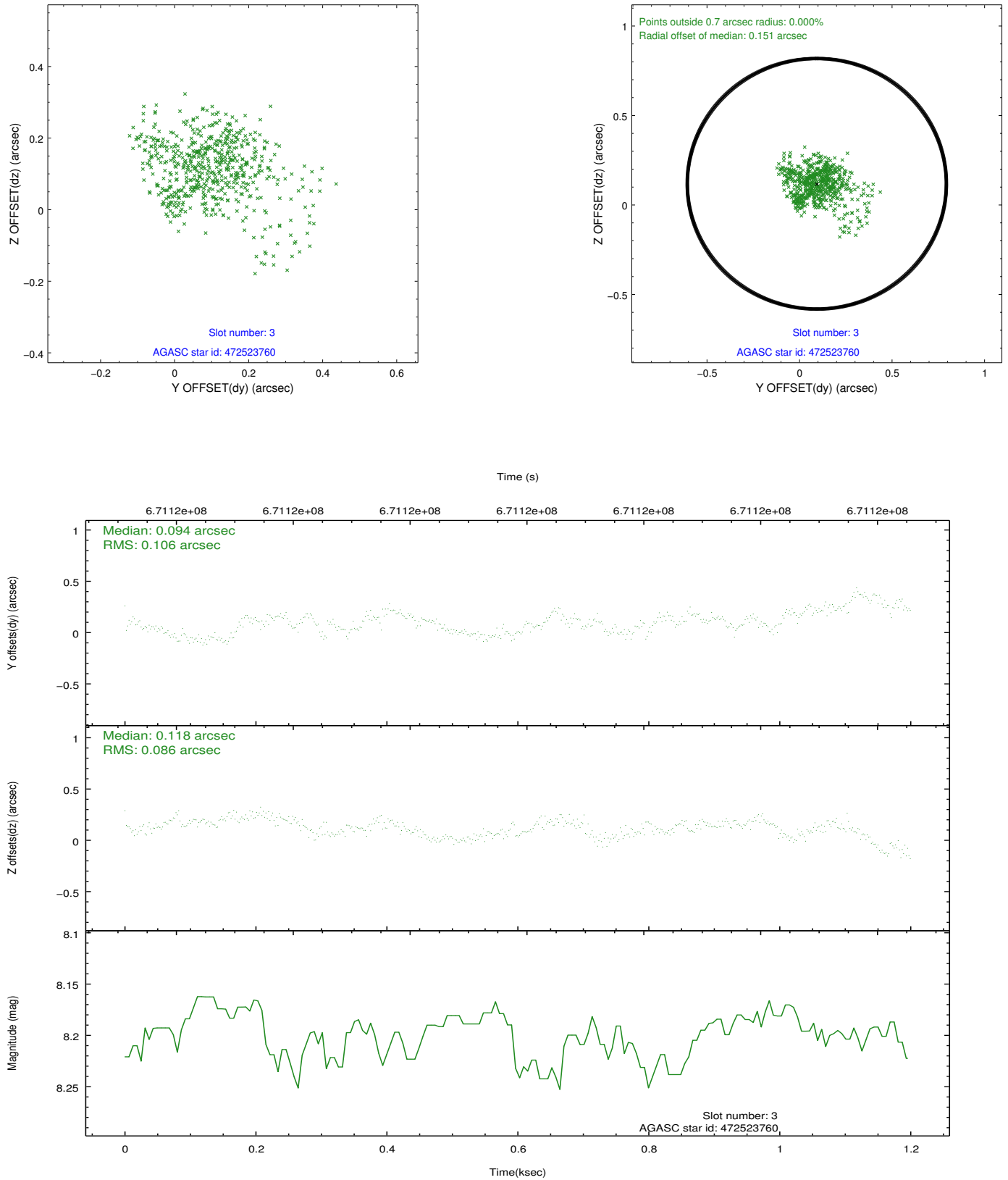


Slot Statistics

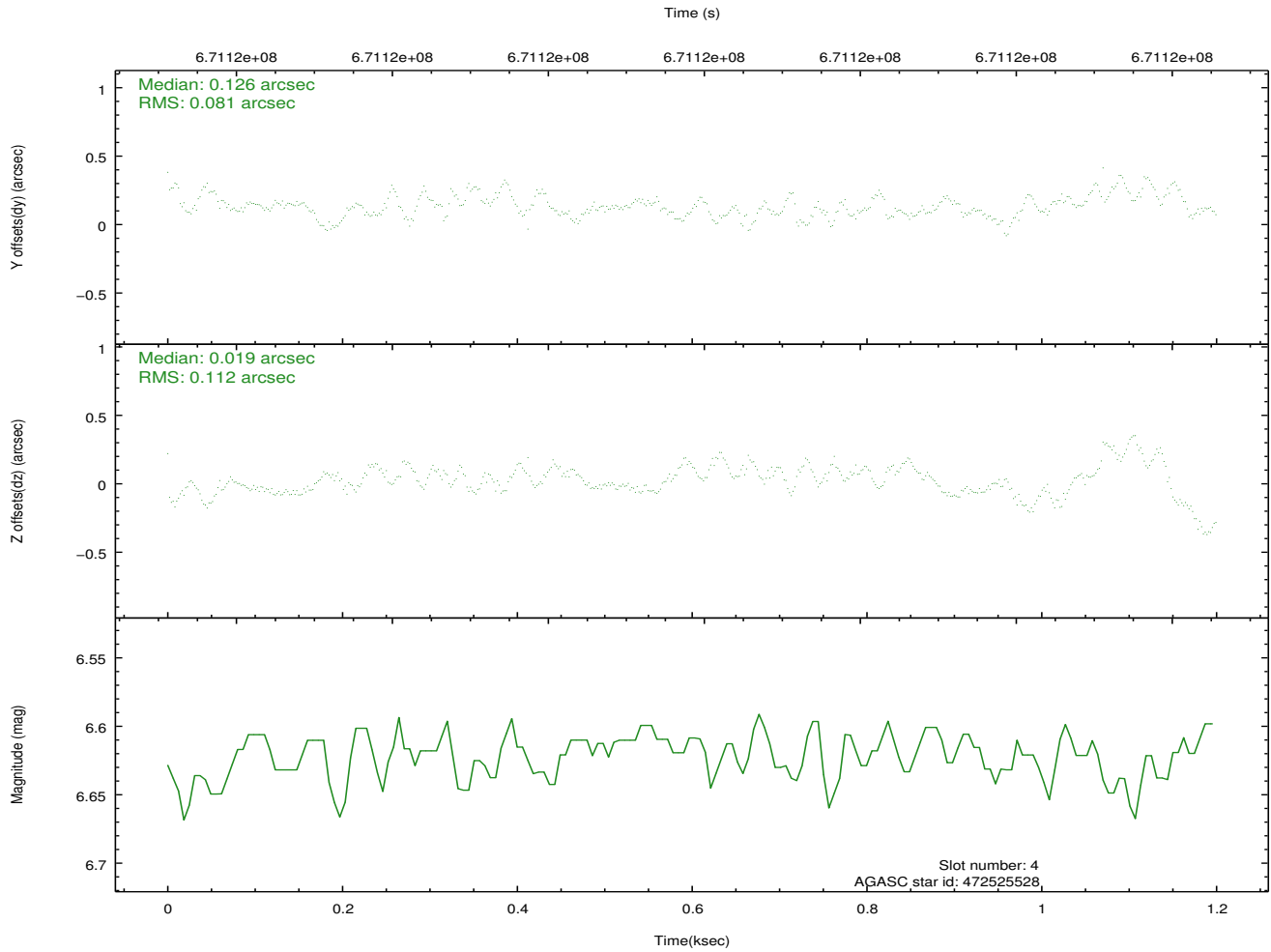
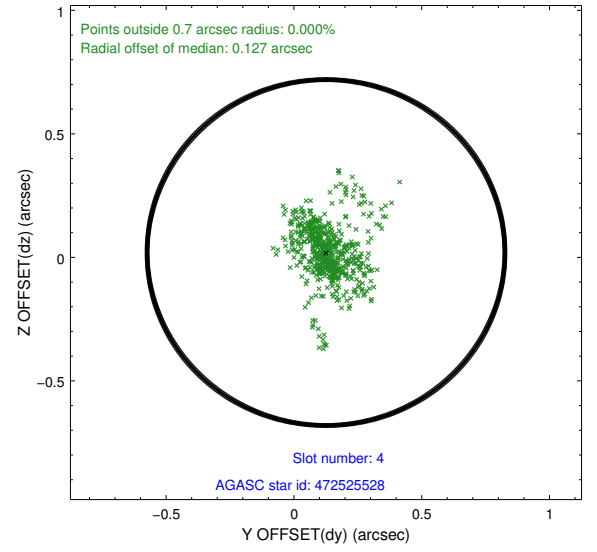
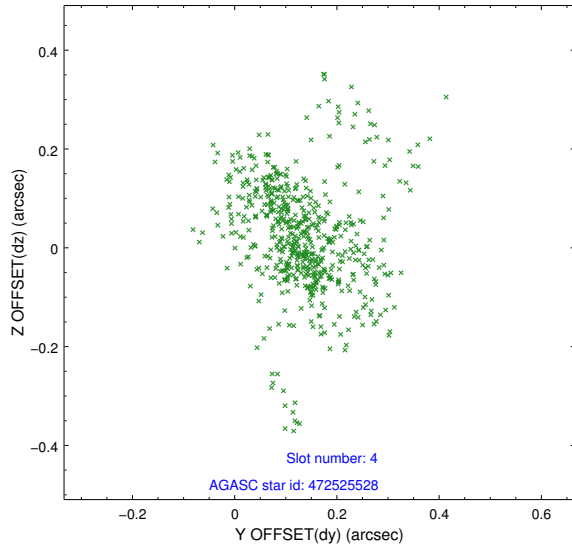
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-I-1	7.02	293	1.000	-0.248	-0.017	0.006	0.010	0.000000	0.000000	-767.61	-1305
1	FID		HRC-I-2	7.04	293	1.000	0.418	-0.136	0.005	0.009	0.000000	0.000000	843.07	-1311
2	FID		HRC-I-3	7.09	293	1.000	-0.051	0.063	0.004	0.009	0.000000	0.000000	-1193.09	994
3	GUIDE	used	472523760	8.20	586	1.000	0.094	0.118	0.139	0.259	331.645363	45.403260	-1739.92	637
4	GUIDE	used	472525528	6.62	586	1.000	0.126	0.019	0.134	0.270	331.551102	45.248694	-2342.89	560
5	GUIDE	used	472533912	9.11	586	1.000	-0.189	-0.403	0.162	0.312	331.791136	46.368695	1432.69	2094
6	GUIDE	used	472665256	8.97	585	1.000	-0.013	0.275	0.173	0.386	332.808125	46.195041	2208.87	-391
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

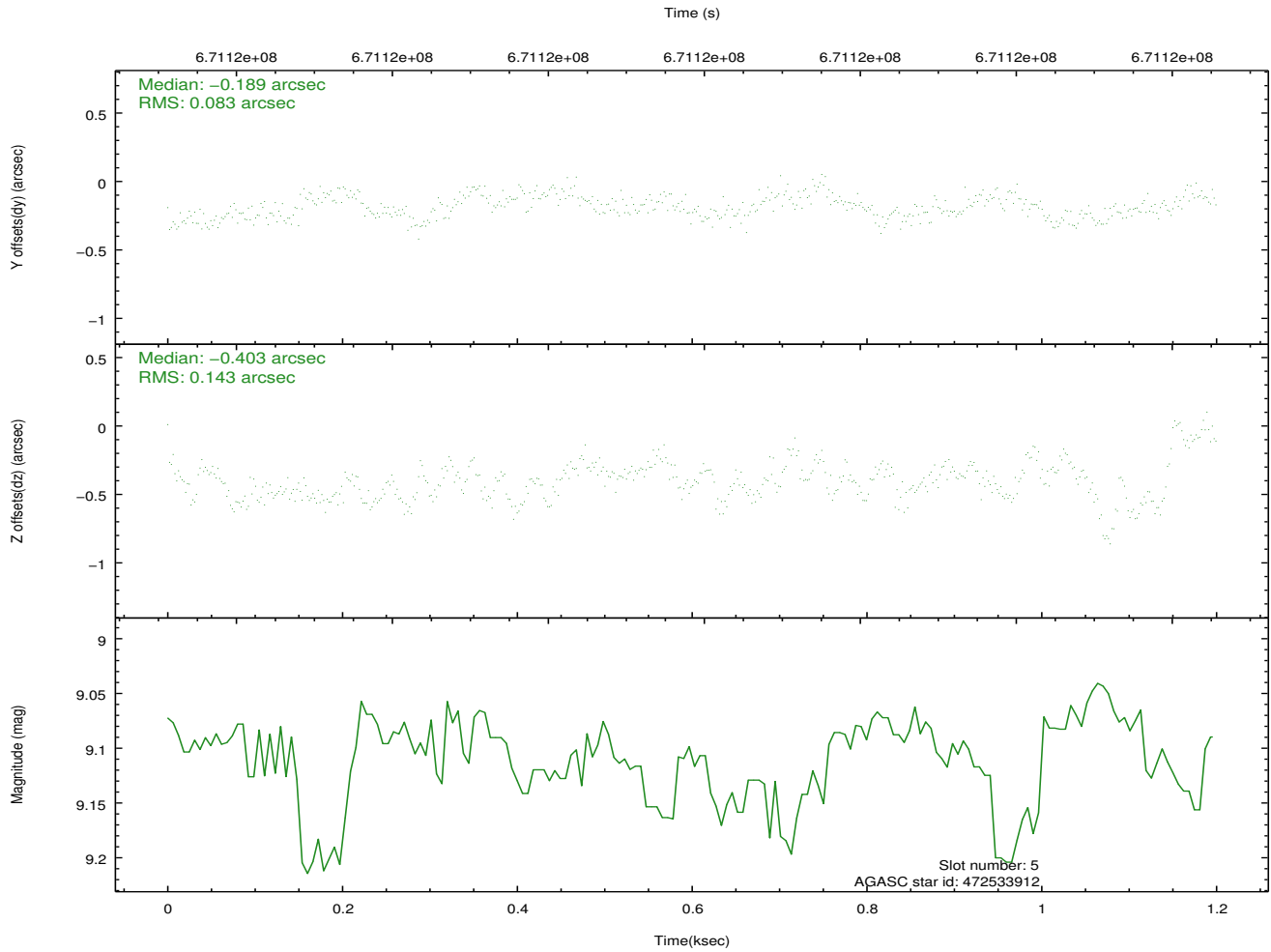
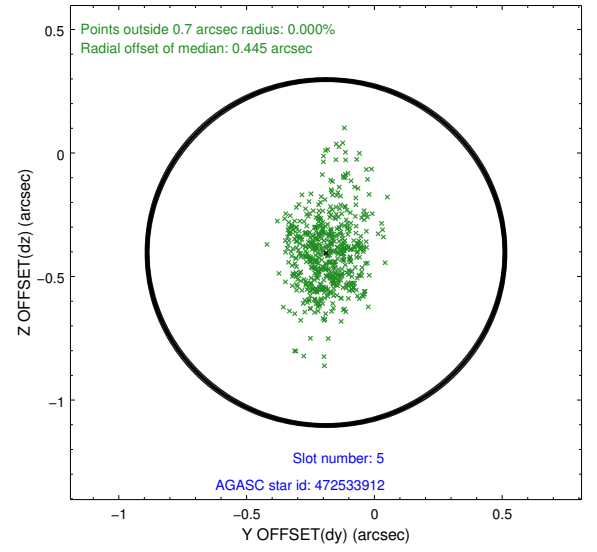
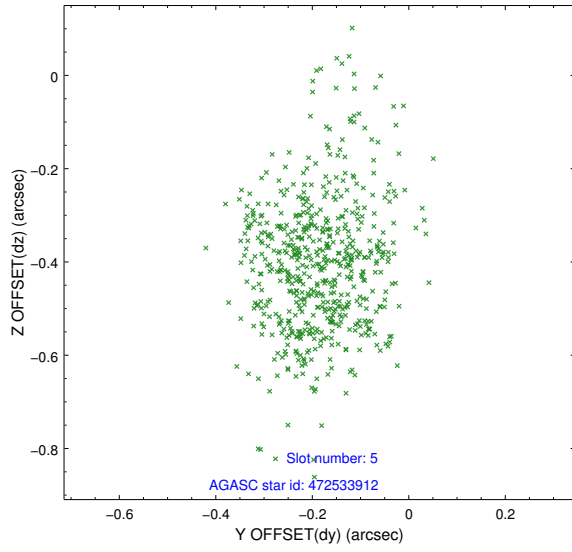
2.4.1 Slot 3



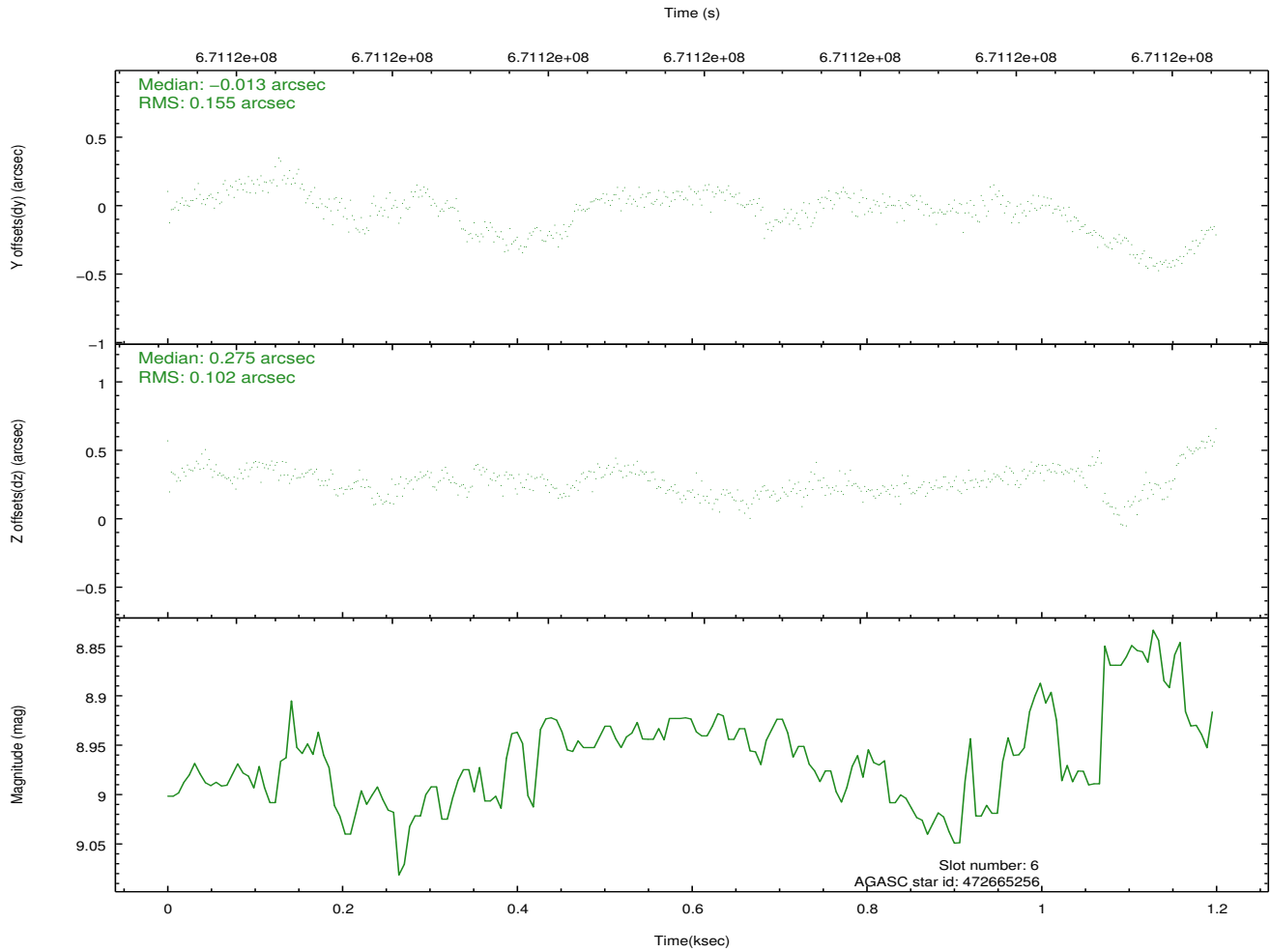
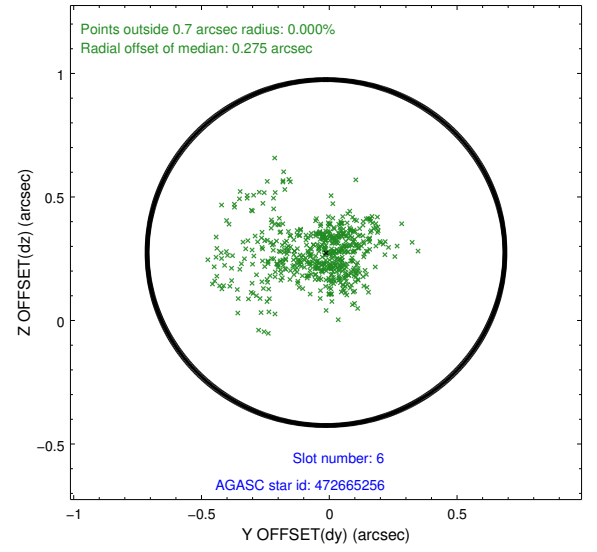
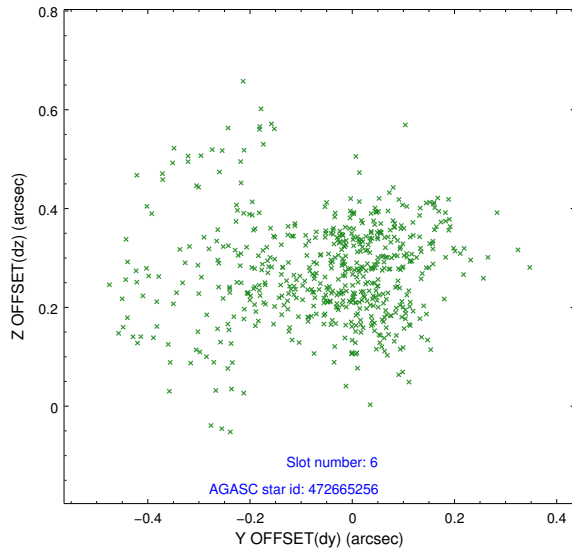
2.4.2 Slot 4



2.4.3 Slot 5

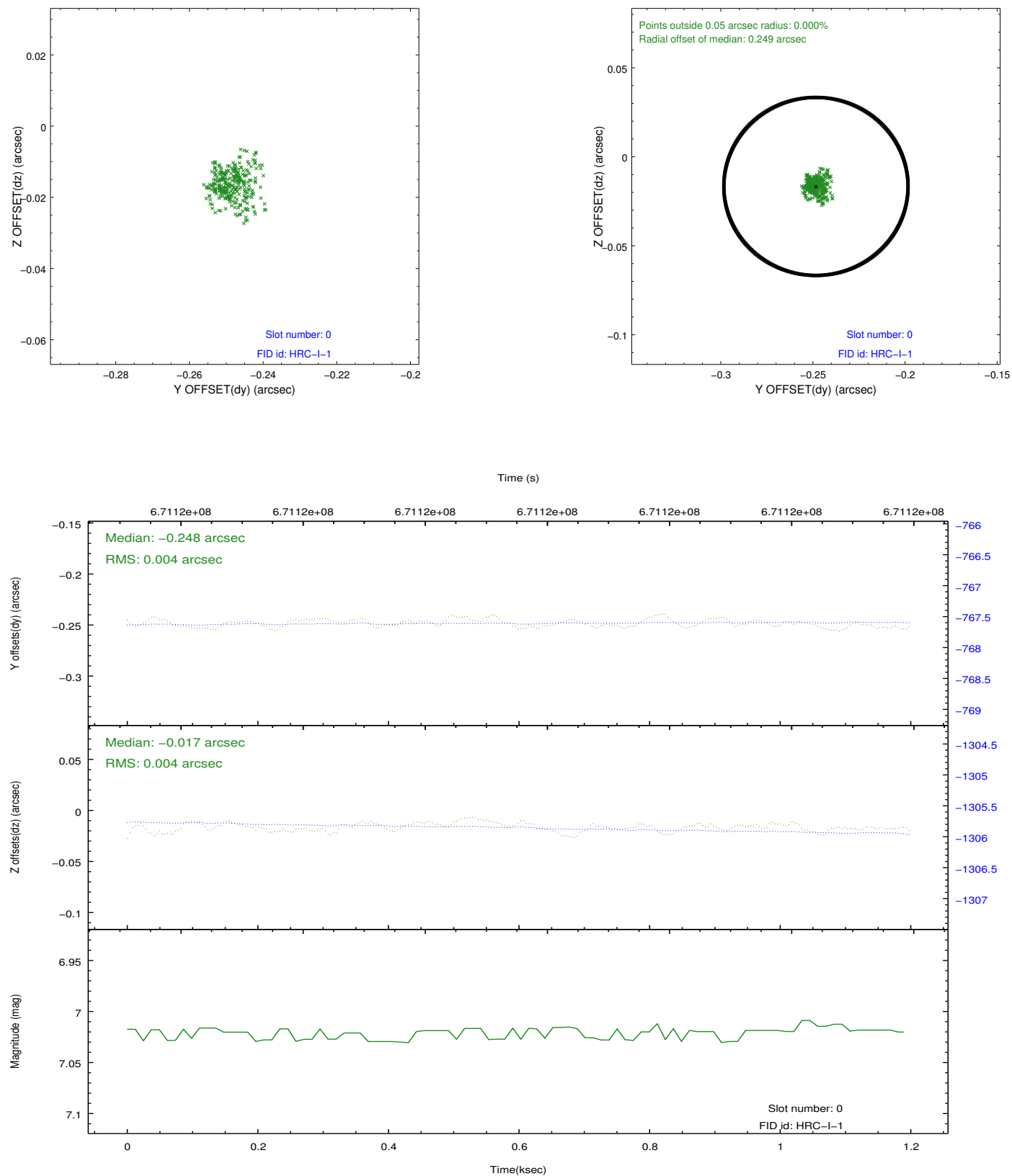


2.4.4 Slot 6

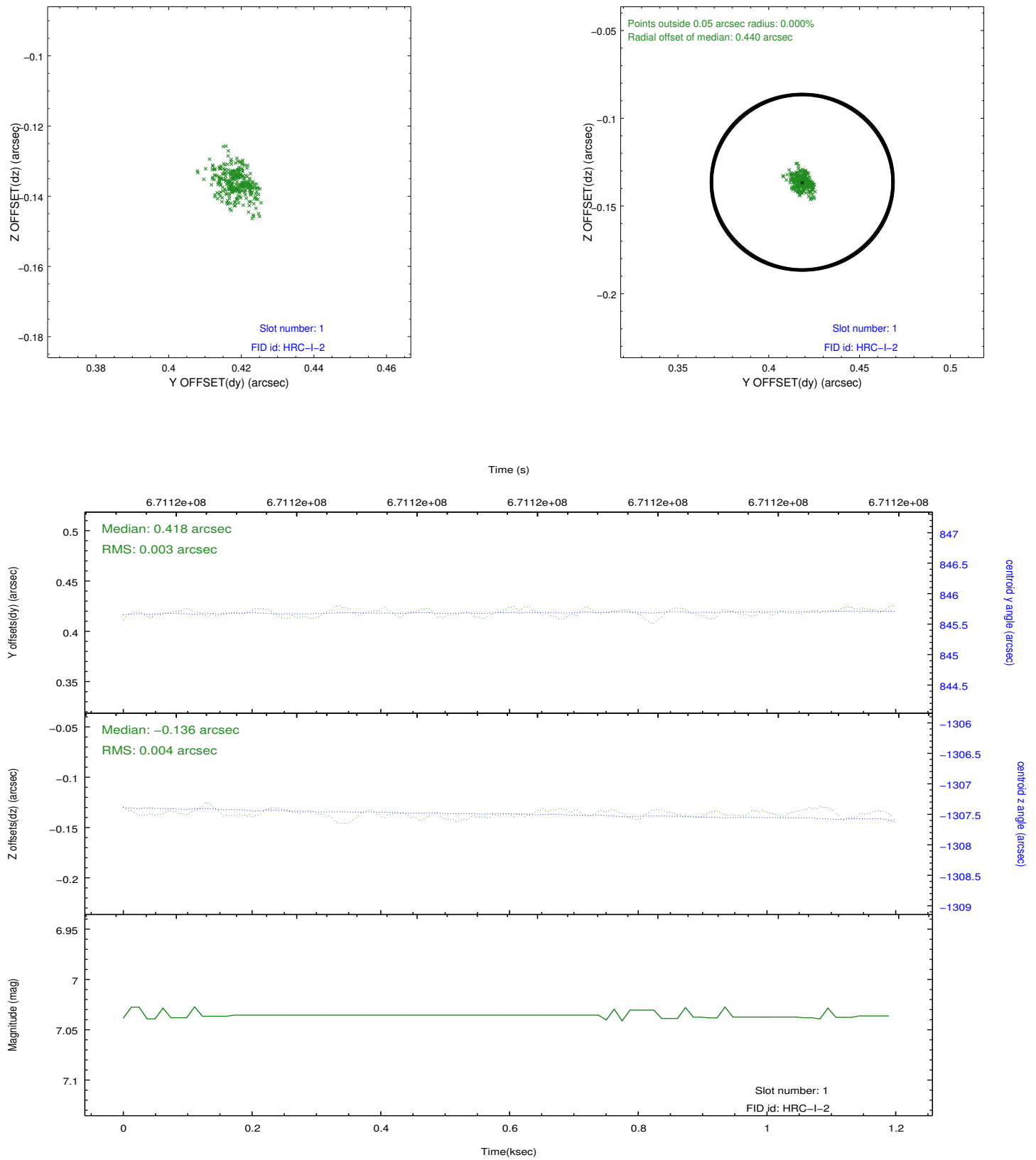


2.5 FID Slots

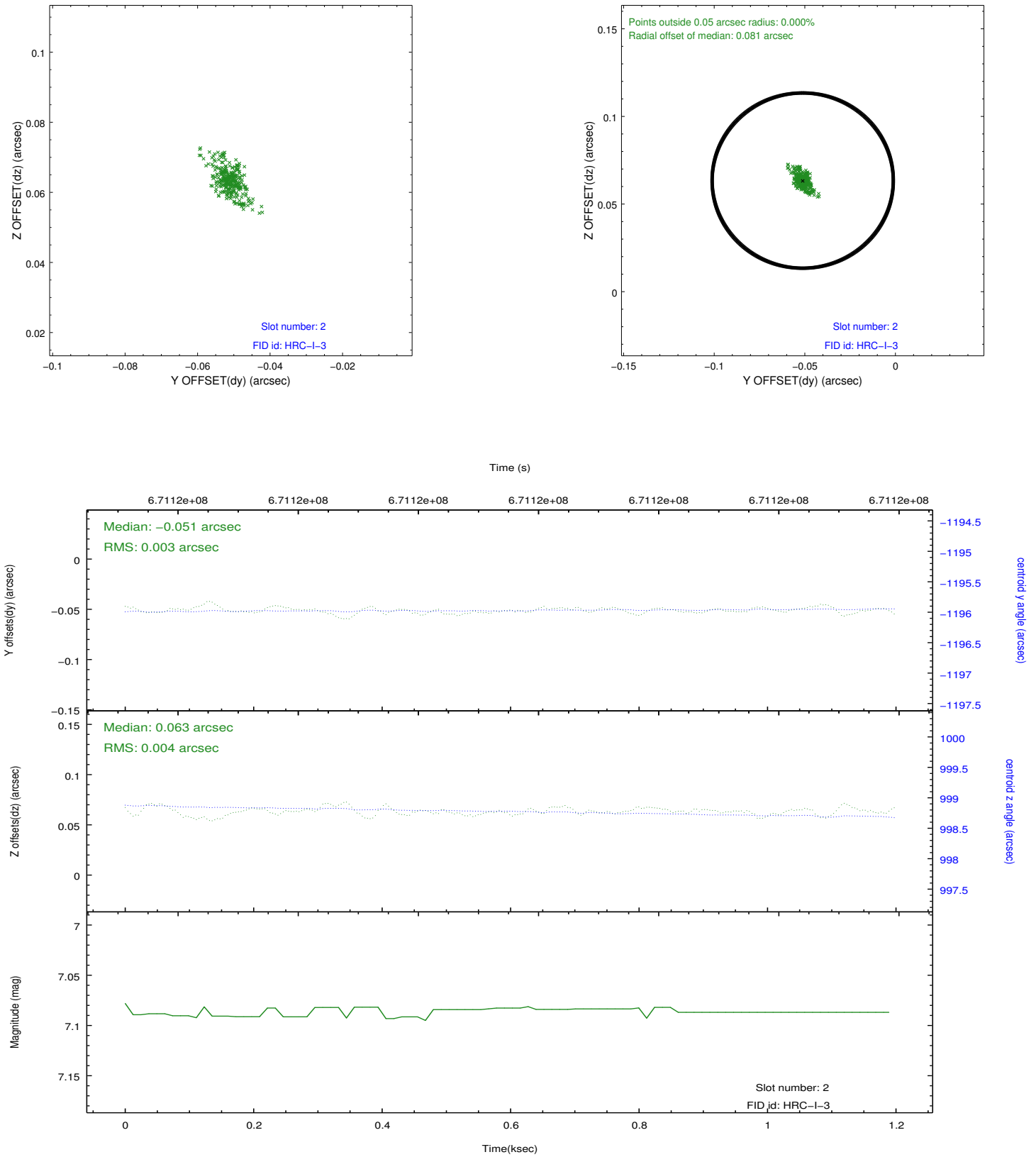
2.5.1 Slot 0



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	1.1984813218117

A.2 Comments

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.