

V&V Reference Report

L2 ASCDS Version : 10.8.1

Observation 23092 - L2 Version 1
Chandra X-Ray Center

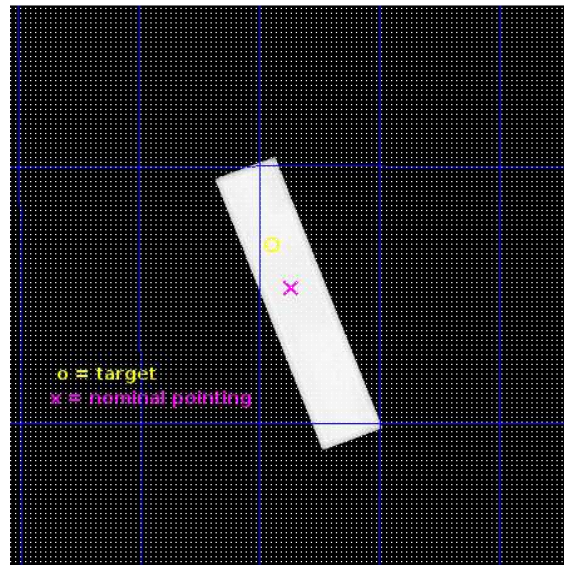
L2 Processing Date : Dec 18 2019

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1 Front

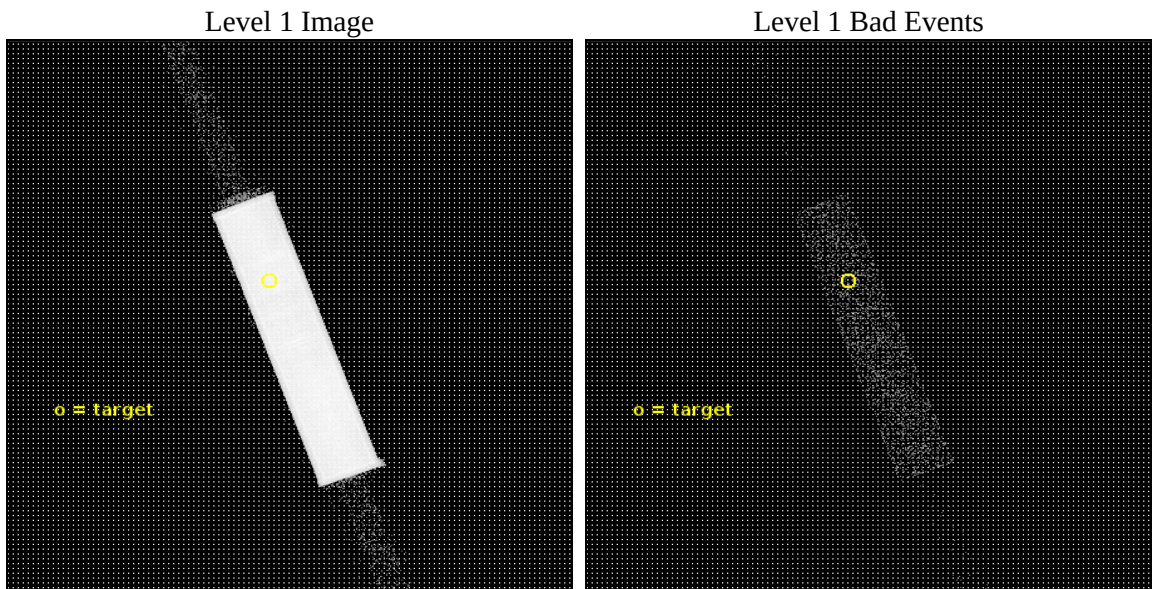
seq_num	100192	Sequence number
obs_id	23092	Observation id
title	Chandra Observations of the Interstellar Comet C/2019 Q4 Borisov	P
observer	Bradford Snios	Principal investigator
object	C/2019 Q4 Borisov	Source name
ra_targ	176.22493	Observer's specified target RA [deg]
dec_targ	-26.153108	Observer's specified target Dec [deg]
ra_nom	176.18338910702	Nominal RA [deg]
dec_nom	-26.236729853421	Nominal Dec [deg]
roll_nom	69.049004638032	Nominal Roll [deg]
revision	1	Processing version of data
ontime	12662.082015157	[s]
livetime	12443.93290913	Ontime multiplied by DTCOR
l2events	1063748	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	12500.000000	[s] Scheduled observation exposure time
ascdsver	10.8.1	Processing system revision	ontime	12662.082015157	[s]
caldbver	4.8.4.2	 	l1events	1291903	Number of level 1 events
date	2019-12-18T22:20:32	Date and time of file creation			
revision	1	Processing version of data			

2.1.3 Events

Level 1 Events

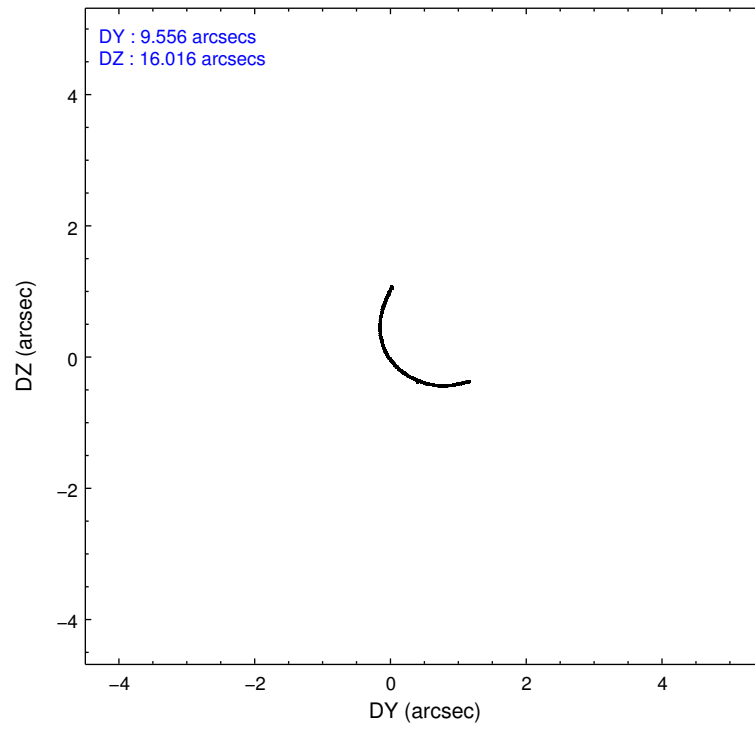
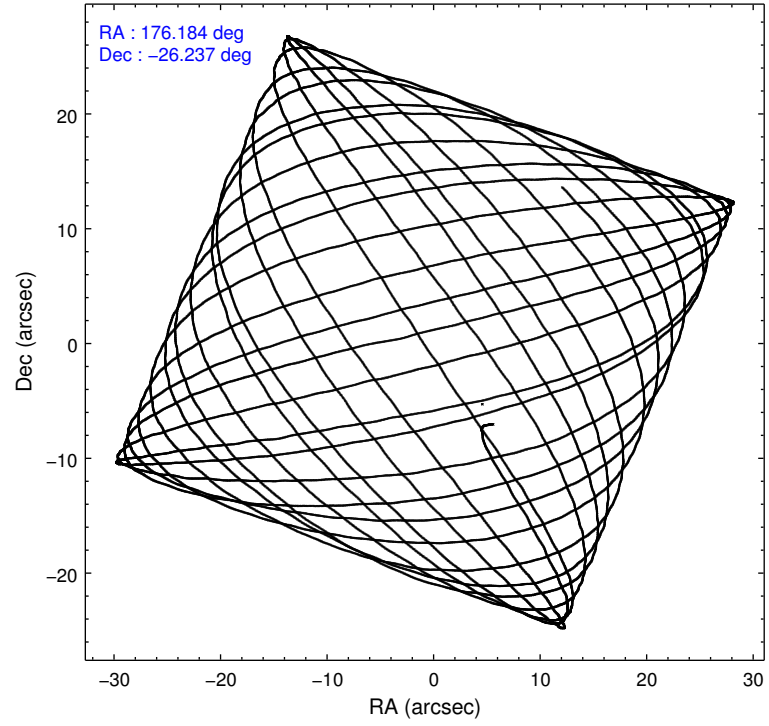
	segment 1	segment 2	segment 3
level 1 events	1079	1289783	1041
rejected events	1079	82472	1041
rejected %	100%	6%	100%

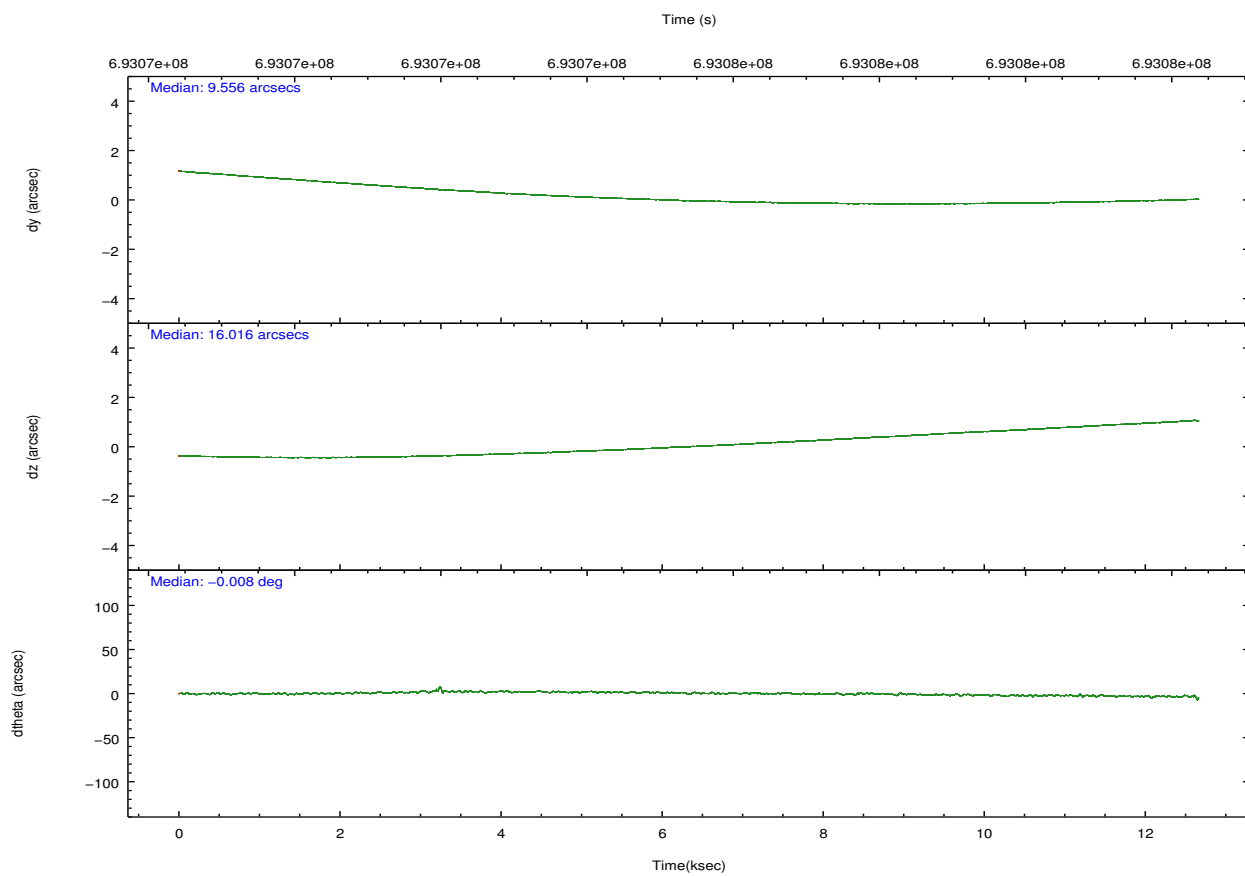
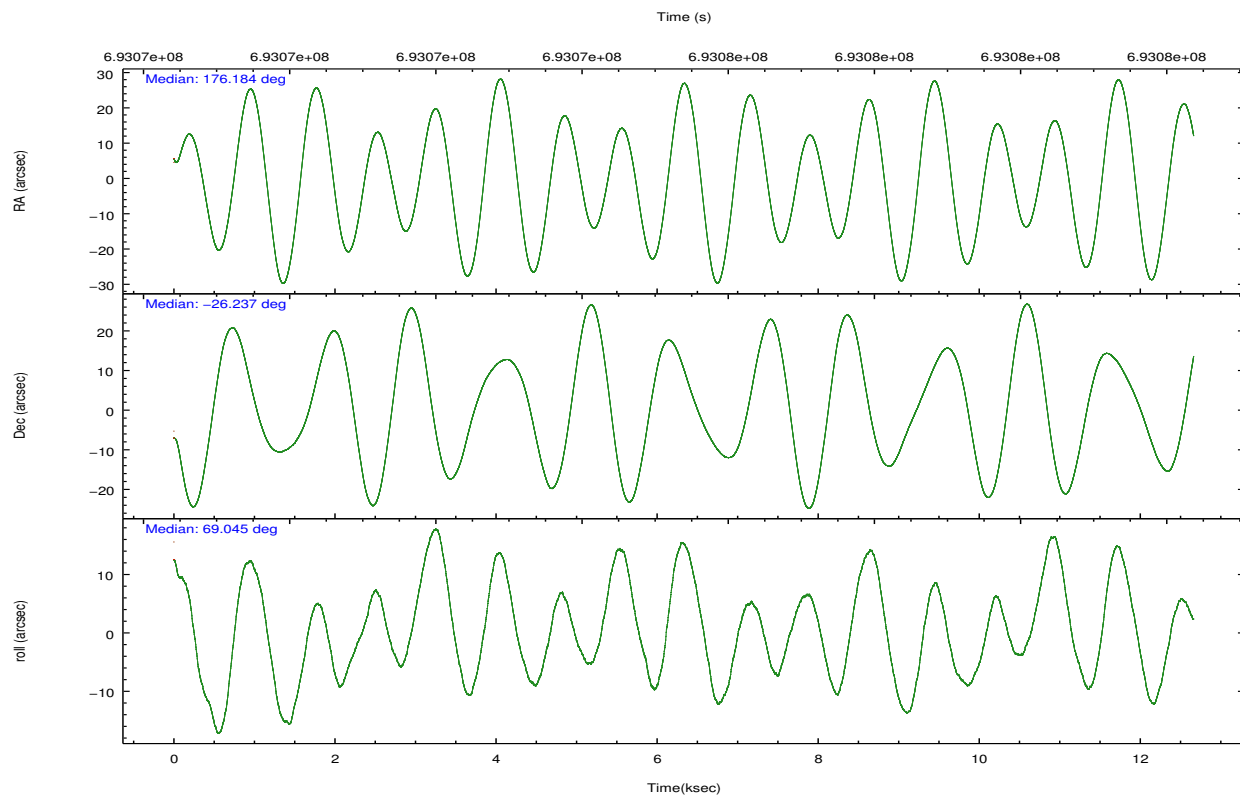
2.2 Compared Parameters

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	176.189912	176.1833891070171
[deg] Pointing Dec	-26.264831	-26.23672985342072
[deg] Pointing Roll	68.984557	69.0490046380316
[s] Window start time (MET)	692625669.184000	692625669.184000
[s] Window stop time (MET)	693835269.184000	693835269.184000
[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)	693069241.184000	693068082.87321
Observation start date	2019-12-18T15:12:52	2019-12-18T14:54:42
[s] Observation end time (MET)	693081741.184000	693081875.27404
Observation end date	2019-12-18T18:41:12	2019-12-18T18:44:35

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

2.3 Aspect



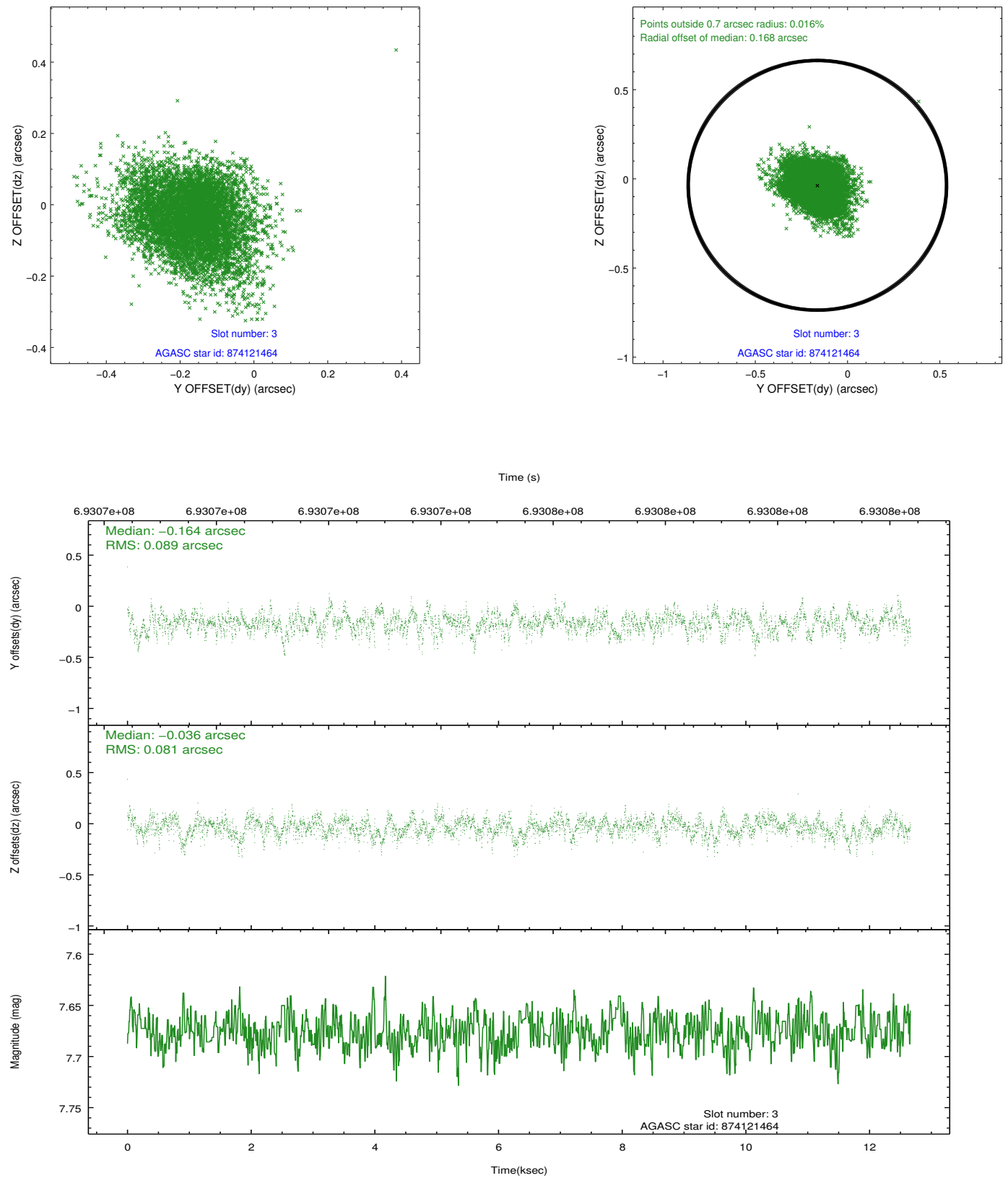


Slot Statistics

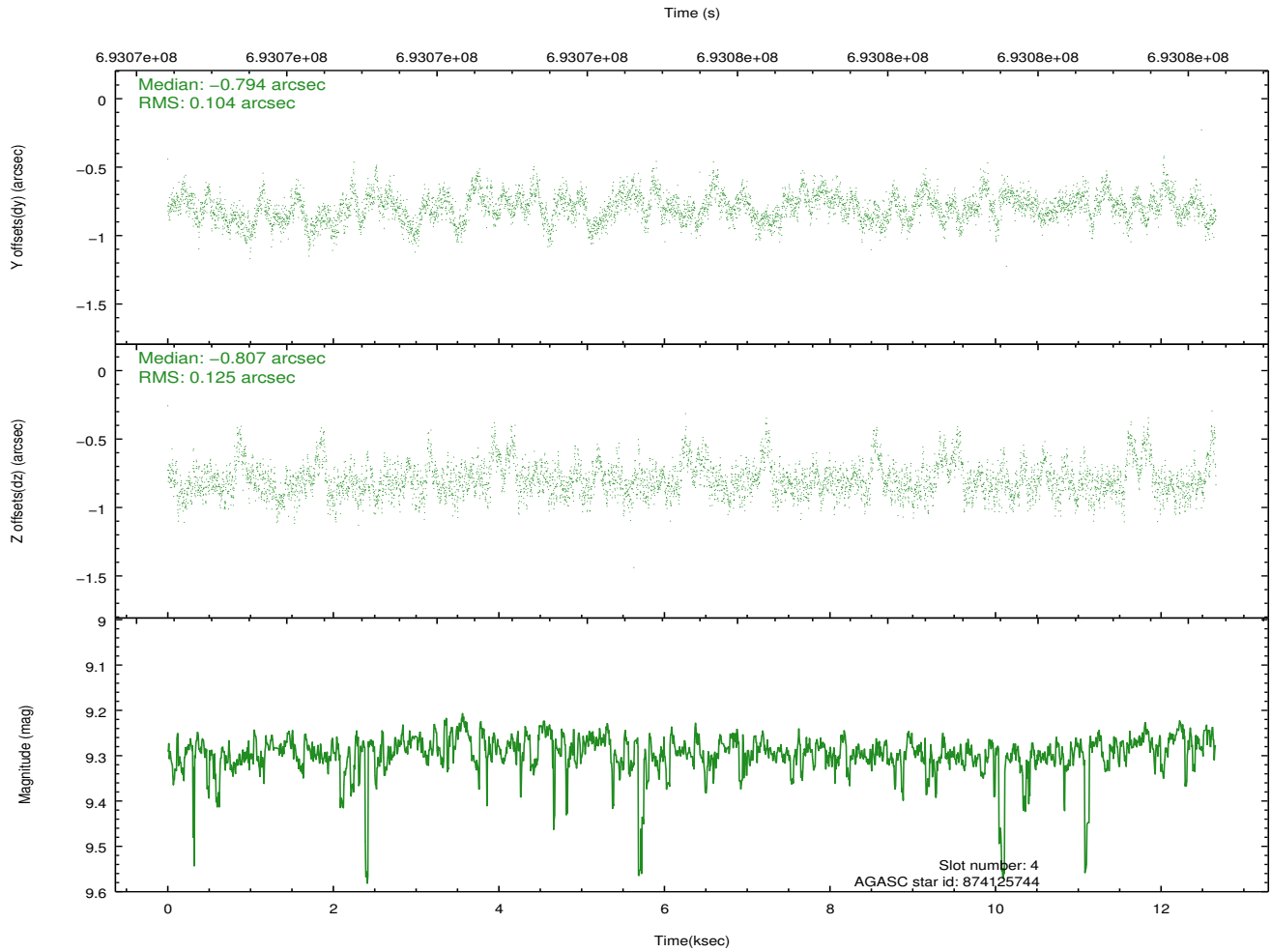
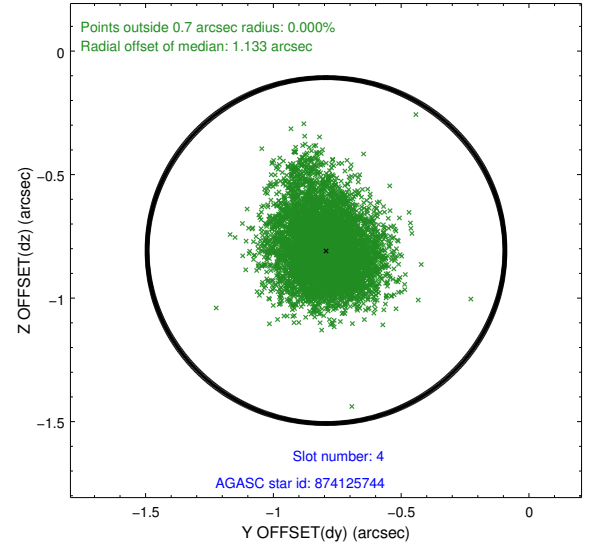
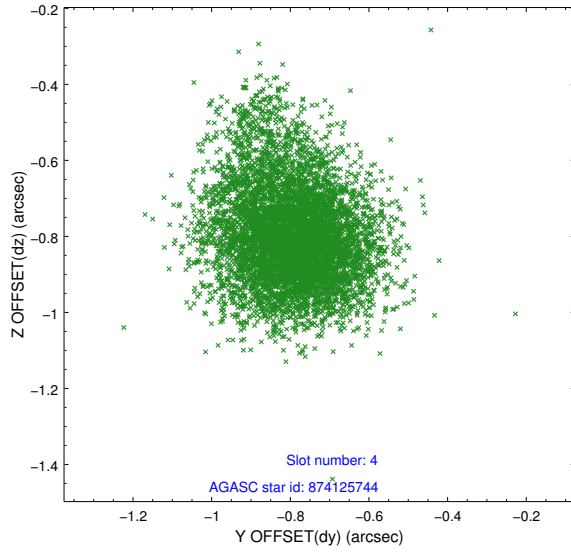
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-S-1	7.05	3088	1.000	-0.067	-0.214	0.026	0.037	0.000000	0.000000	-1164.09	-465
1	FID		HRC-S-2	7.03	3089	1.000	0.433	-0.146	0.016	0.045	0.000000	0.000000	1235.70	-457
2	FID		HRC-S-3	7.05	3089	1.000	0.022	0.057	0.032	0.045	0.000000	0.000000	-1166.41	564
3	GUIDE	used	874121464	7.68	6174	1.000	-0.164	-0.036	0.126	0.209	176.832990	-25.961470	1761.70	-1551
4	GUIDE	used	874125744	9.29	6170	1.000	-0.794	-0.807	0.170	0.289	175.933082	-25.663895	1719.80	1553
5	GUIDE	used	874649568	8.80	6165	1.000	0.279	0.337	0.139	0.236	176.829393	-26.547037	-212.85	-2287
6	GUIDE	used	874651224	8.96	6173	1.000	0.424	0.365	0.143	0.228	176.582396	-27.063650	-2233.81	-2205
7	GUIDE	used	874651352	8.97	6173	1.000	0.260	0.131	0.167	0.263	176.013783	-26.883302	-2281.10	-269

2.4 Star Slots

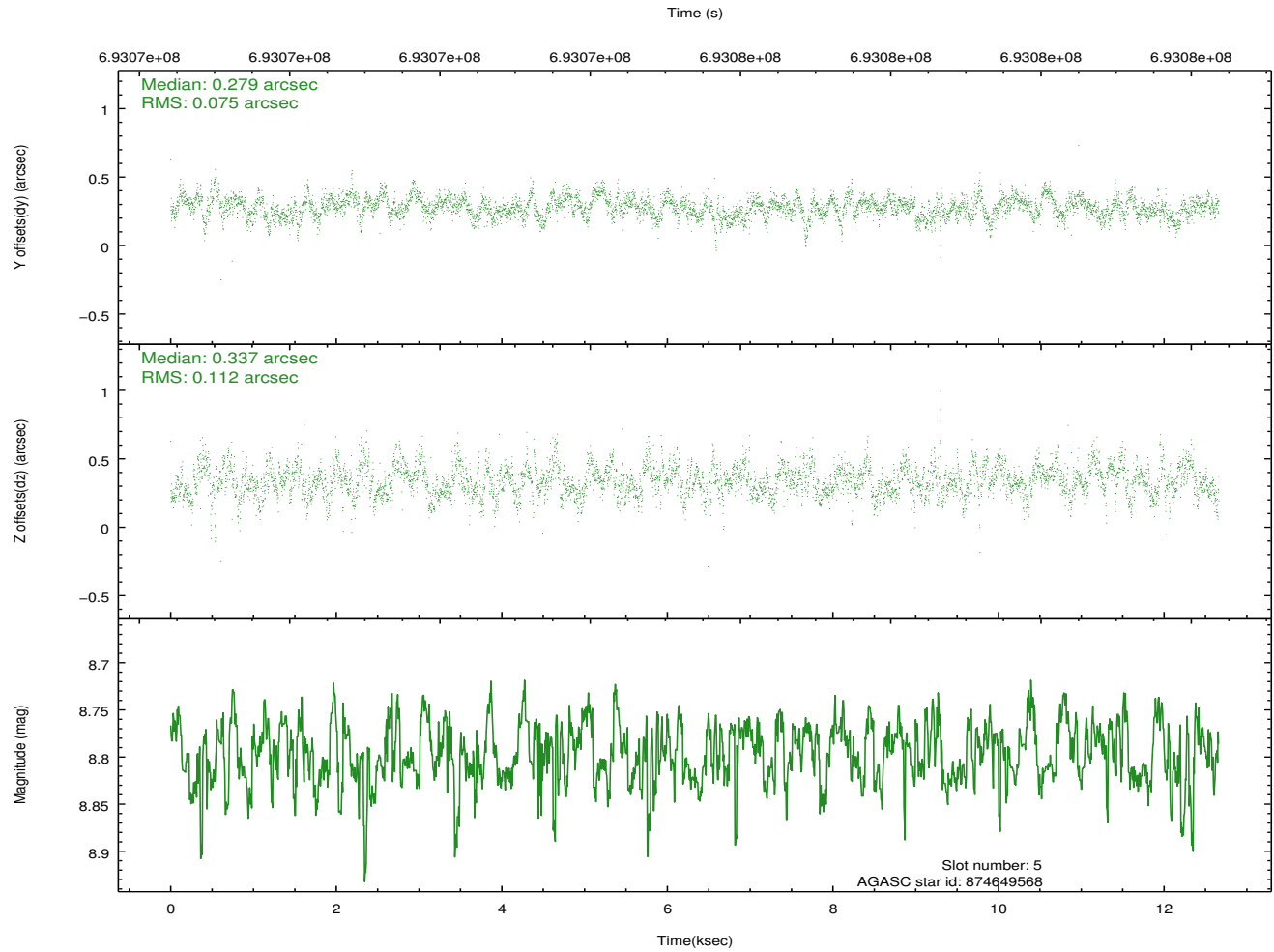
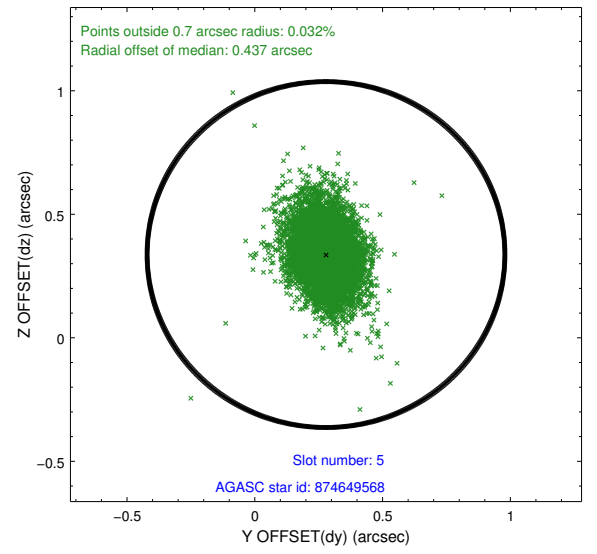
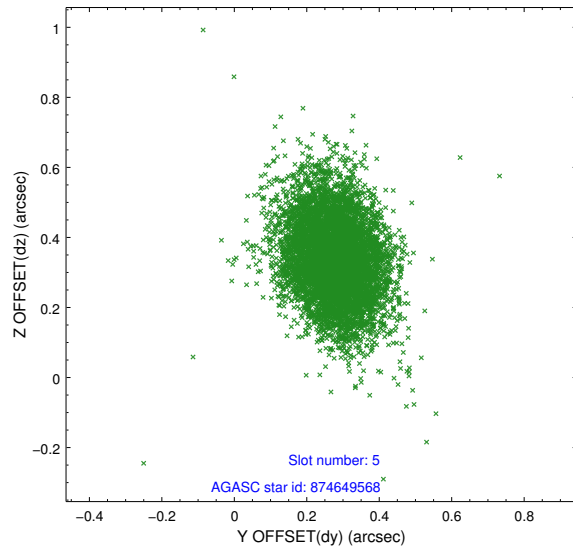
2.4.1 Slot 3



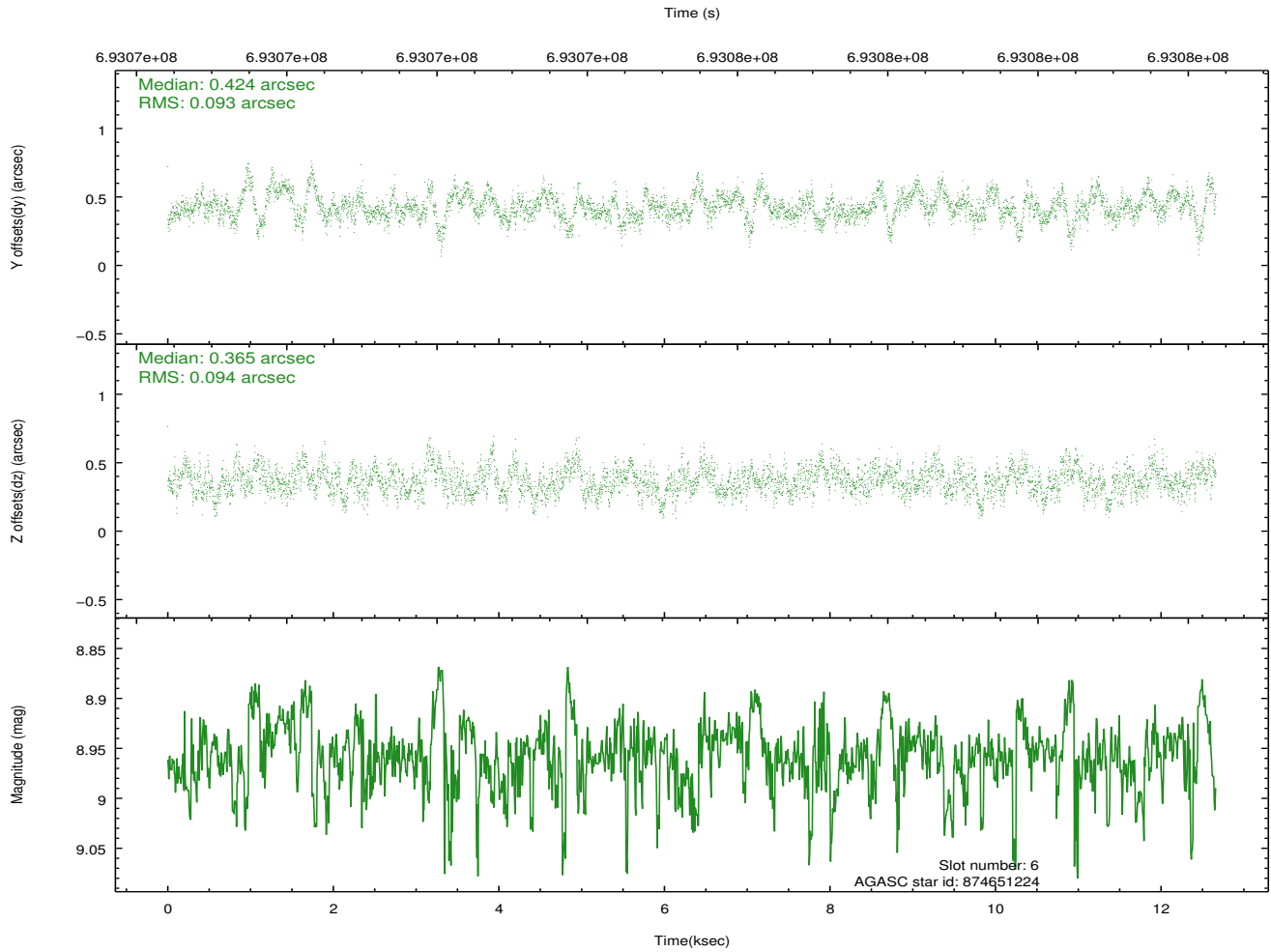
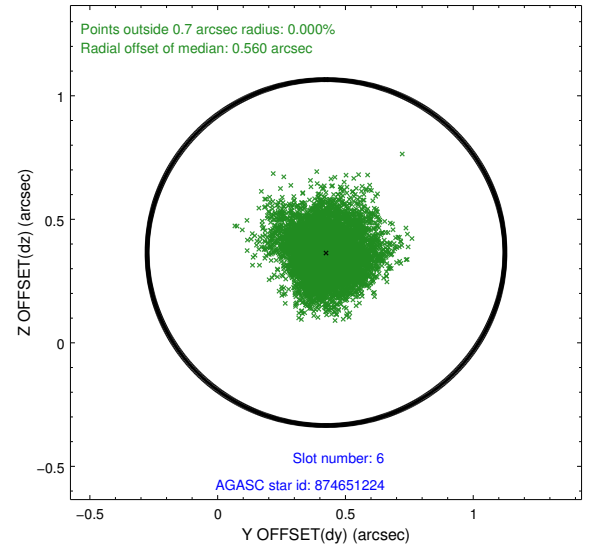
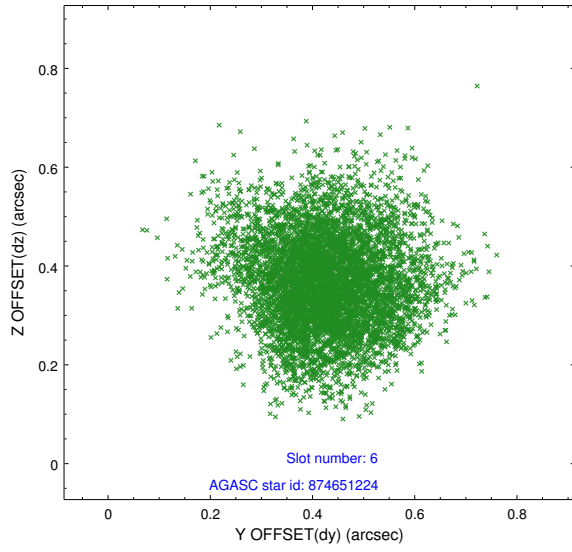
2.4.2 Slot 4



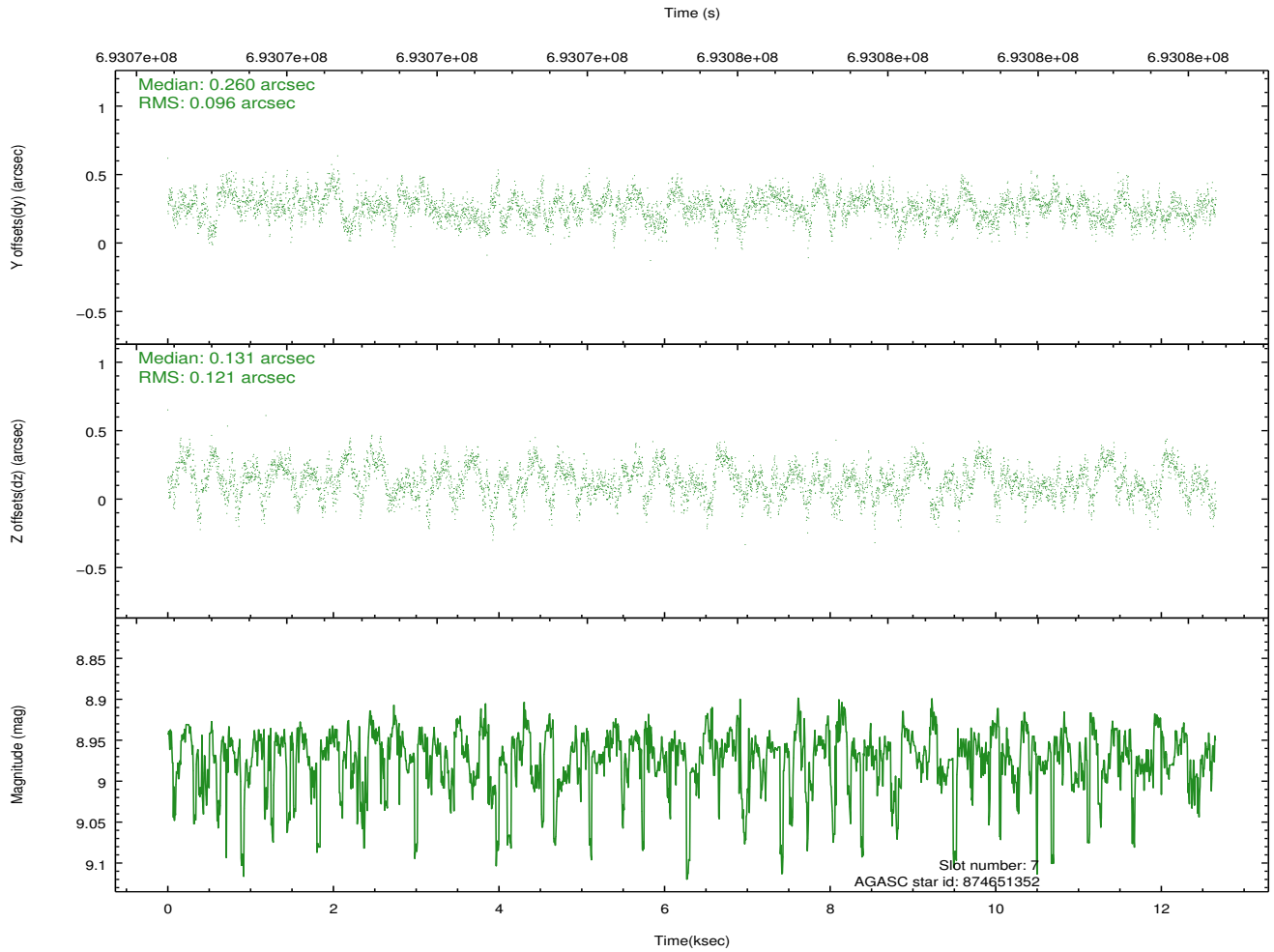
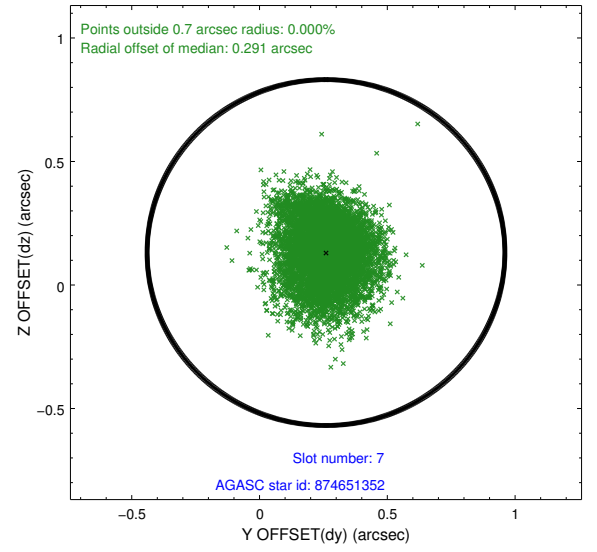
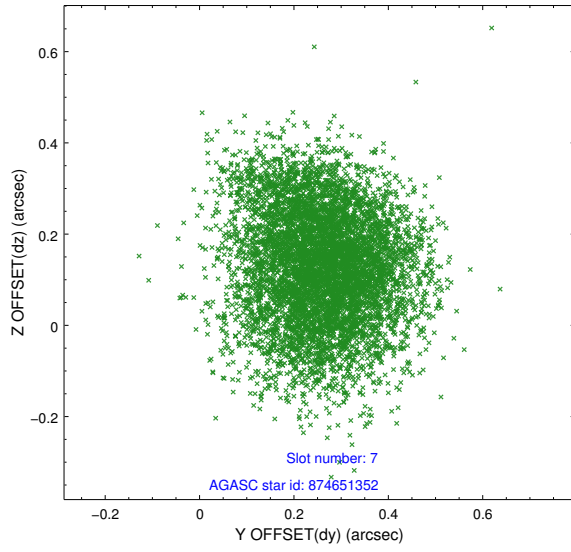
2.4.3 Slot 5



2.4.4 Slot 6

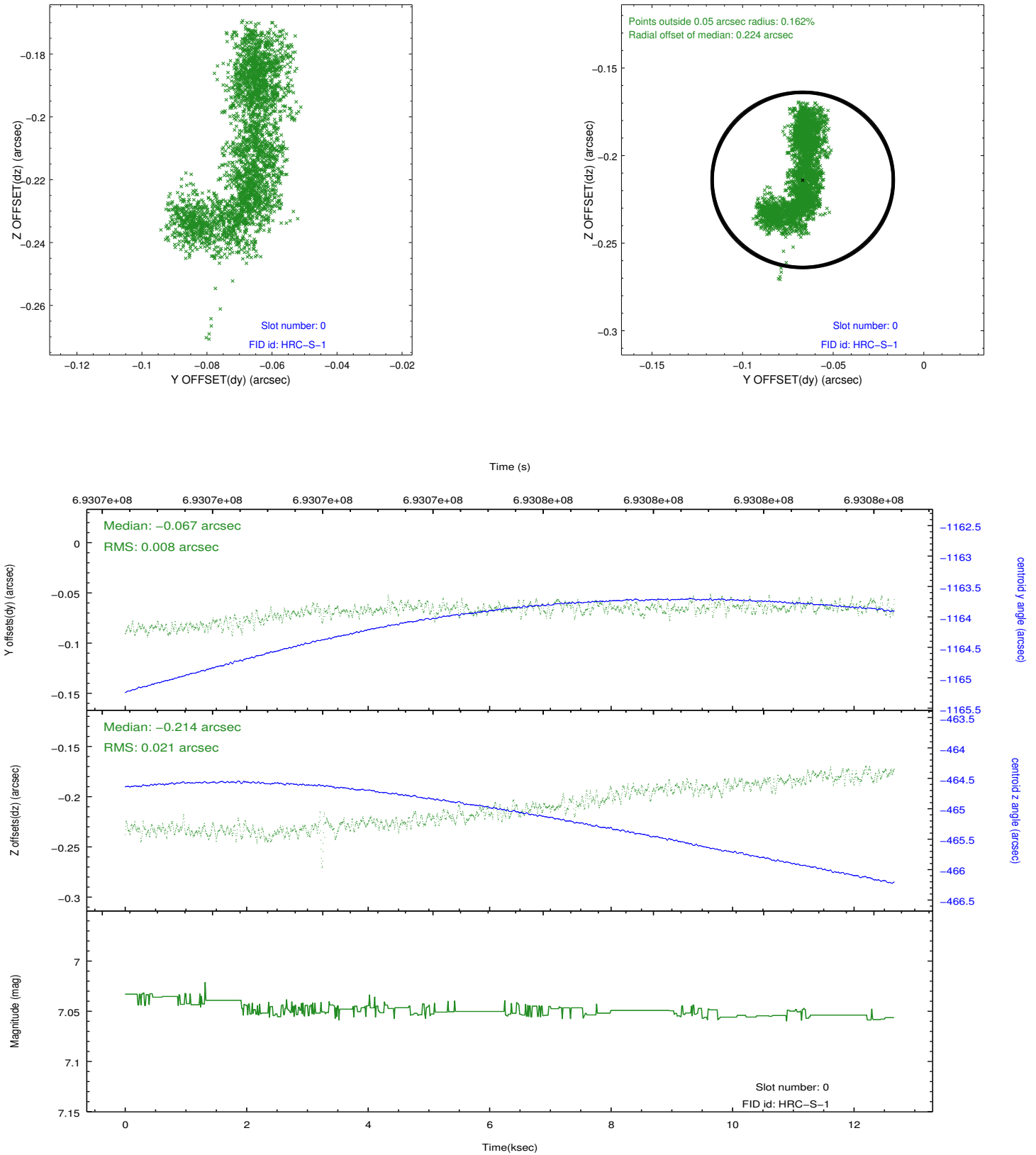


2.4.5 Slot 7

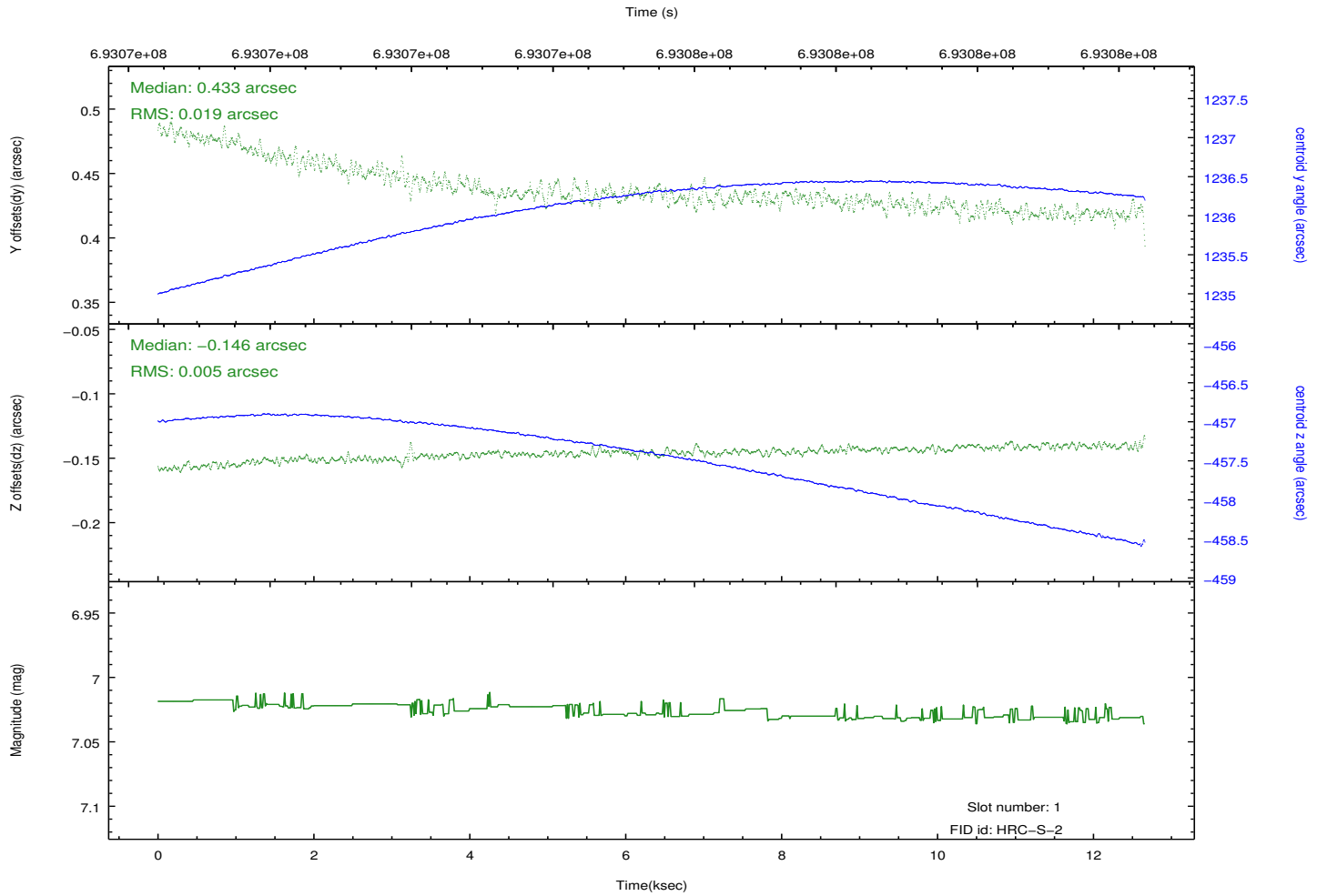
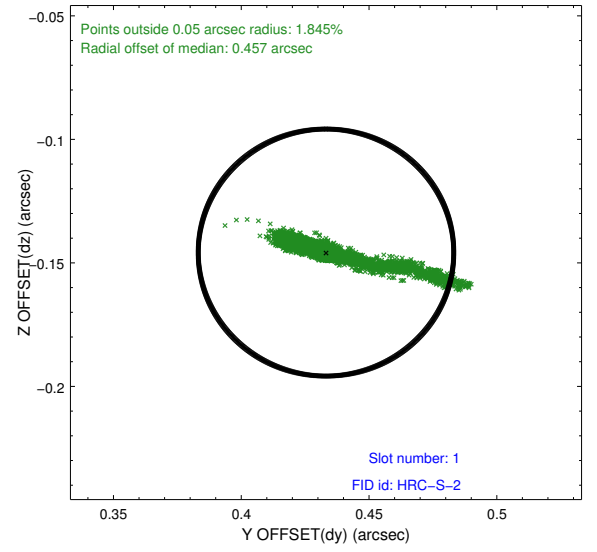
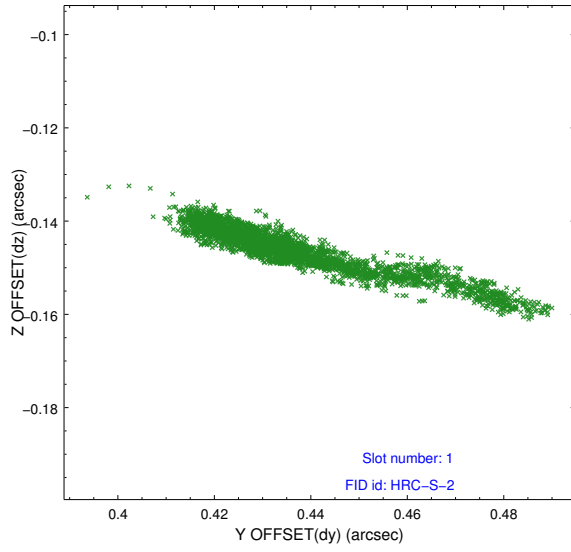


2.5 FID Slots

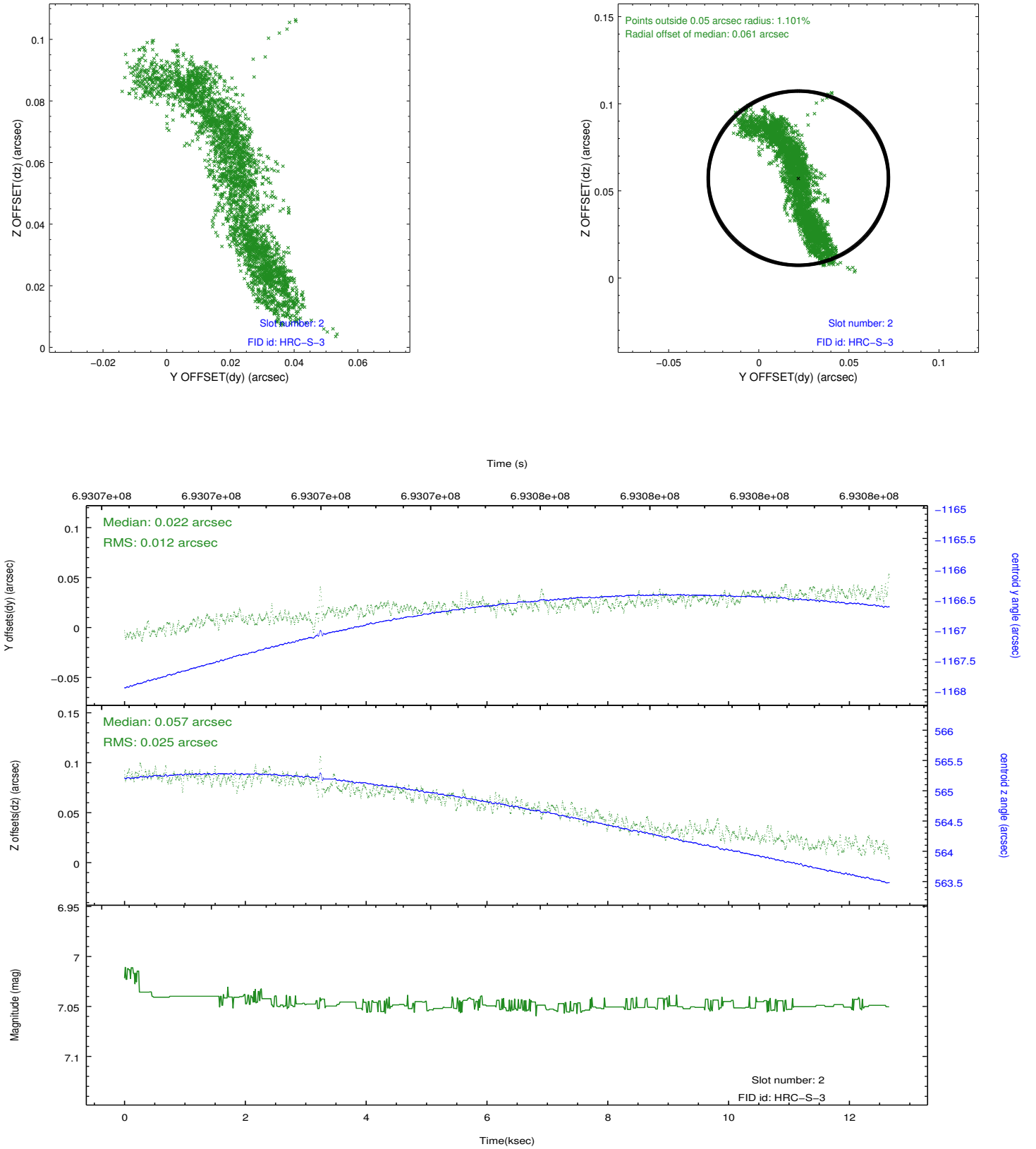
2.5.1 Slot 0



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)	2019.12.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	12.662082015157

A.2 Comments

Window constraint met.

This is an observation of a moving target. Users will need to run sso_freeze or similar software to position the events in the reference frame of the target.