

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19798 - L2 Version 1
Chandra X-Ray Center

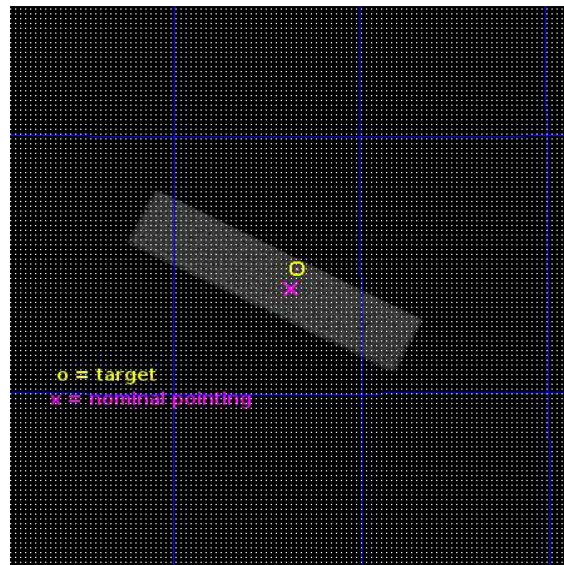
L2 Processing Date : Sep 15 2017

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

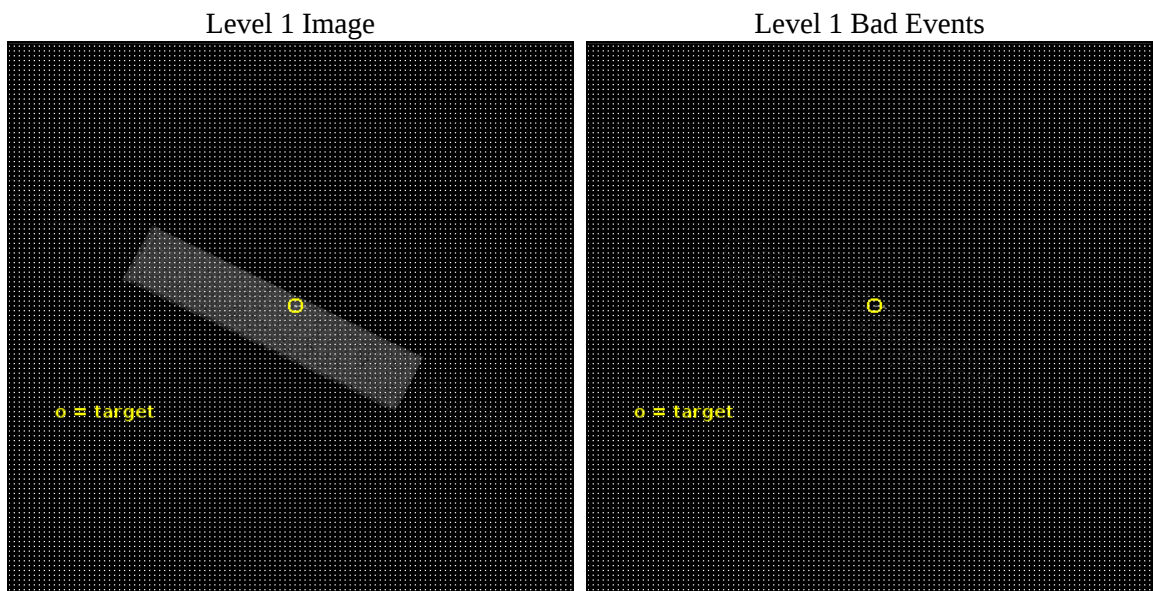
seq_num	291315	Sequence number
obs_id	19798	Observation id
title	AO-18 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.18425807578	Nominal RA [deg]
dec_nom	45.704557769422	Nominal Dec [deg]
roll_nom	206.82639090789	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1167.4750683308	[s]
livetime	1157.9210708123	Ontime multiplied by DTCOR
l2events	75437	Number of level 2 events



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	1	Obi number	sched_exp_time	1000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	1167.4750683308	[s]
caldbver	4.7.6	 	l1events	113357	Number of level 1 events
date	2017-09-15T14:45:25	Date and time of file creation			
revision	1	Processing version of data			

2.1.3 Events

Level 1 Events

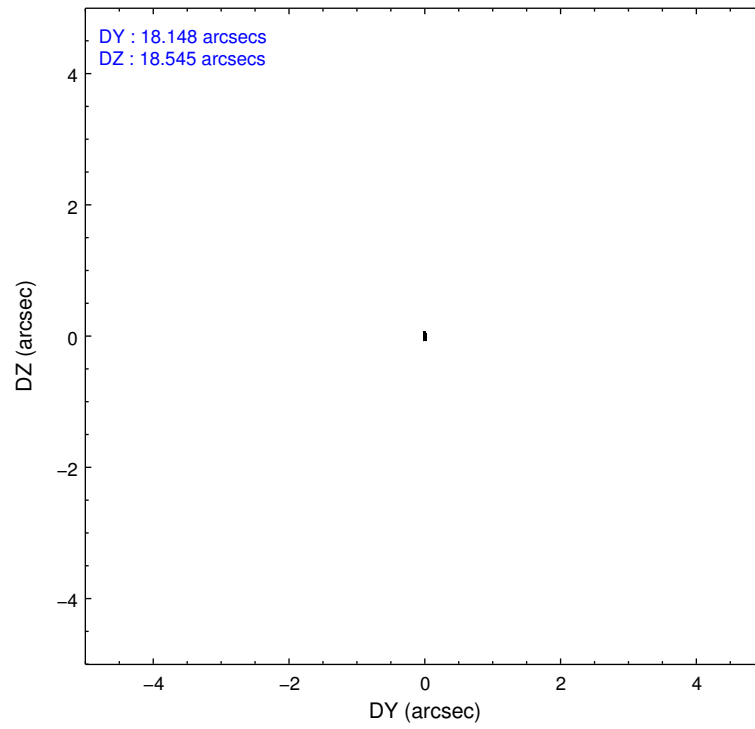
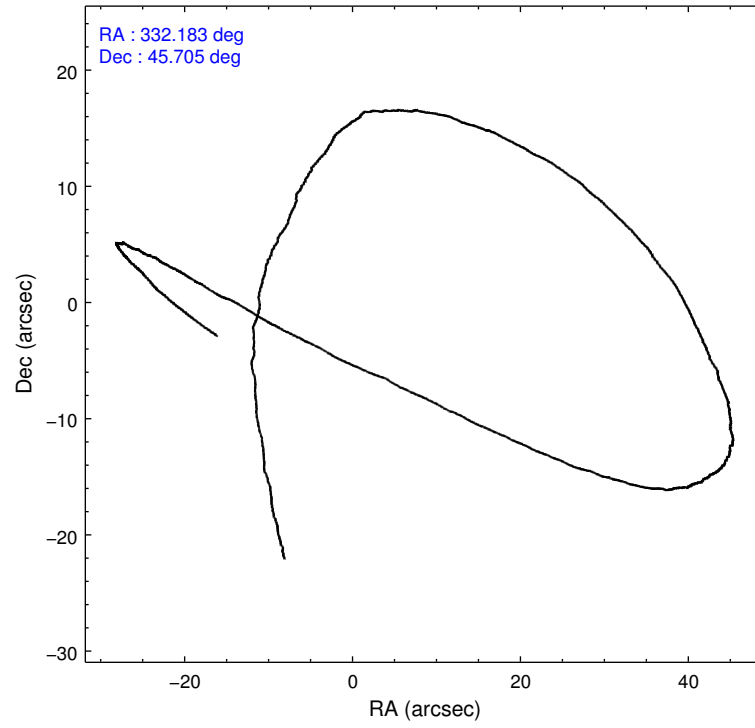
	segment 1	segment 2	segment 3
level 1 events	918	111530	909
rejected events	918	24292	909
rejected %	100%	21%	100%

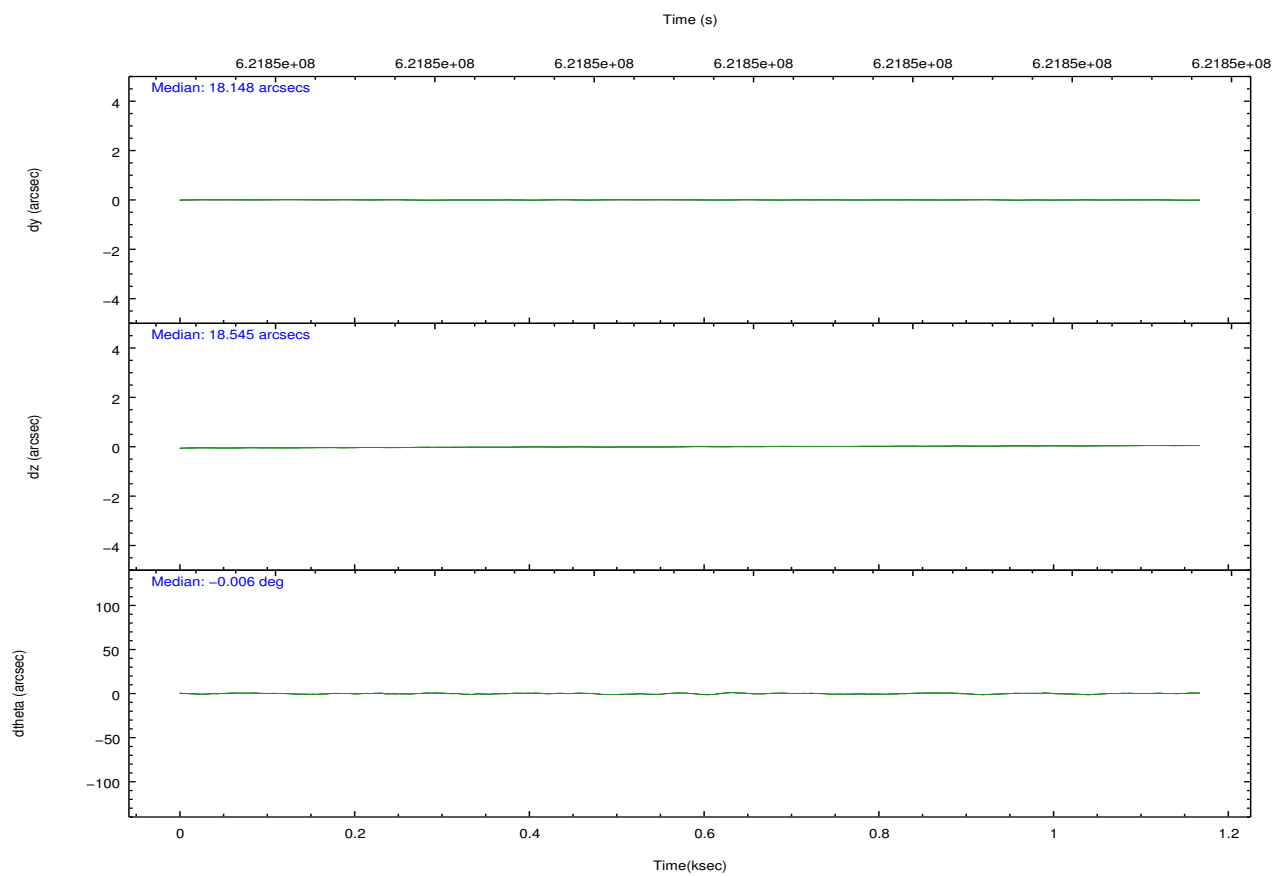
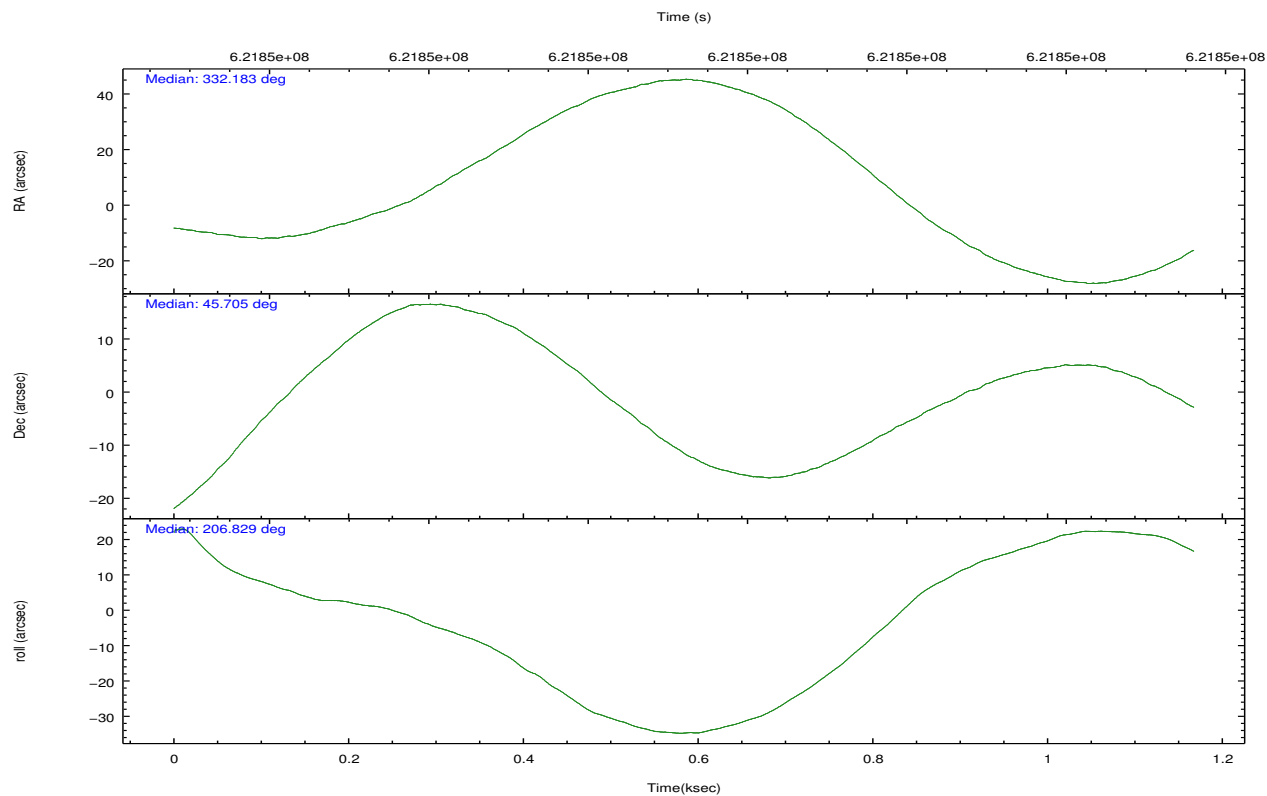
2.2 Compared Parameters

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	332.206310	332.1842580757805
[deg] Pointing Dec	45.728723	45.70455776942194
[deg] Pointing Roll	206.743256	206.8263909078865
[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)	621847902.184000	621847526.4187599
Observation start date	2017-09-15T07:30:33	2017-09-15T07:25:26
[s] Observation end time (MET)	621848902.184000	621849036.75634
Observation end date	2017-09-15T07:47:13	2017-09-15T07:50:36

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

2.3 Aspect



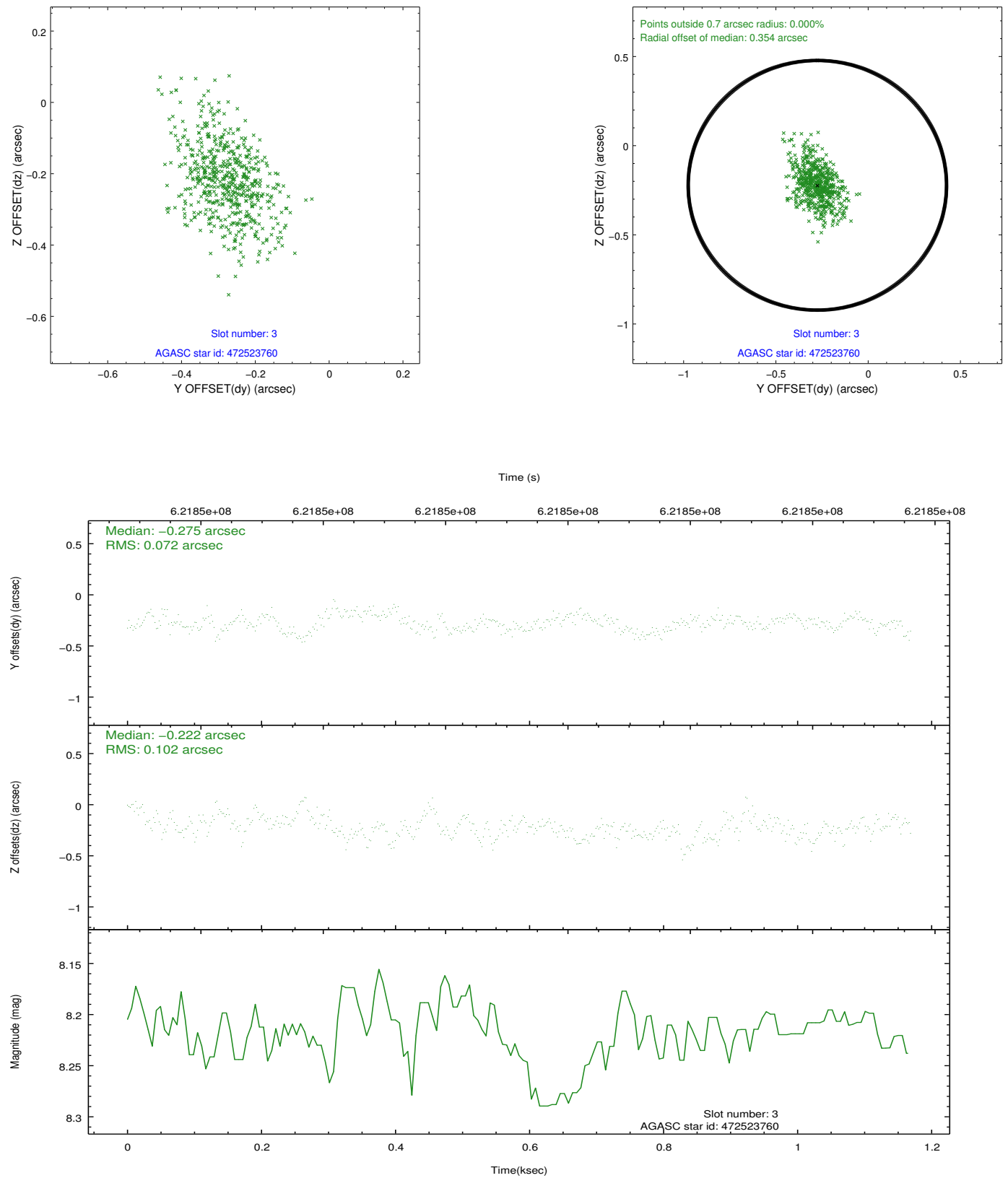


Slot Statistics

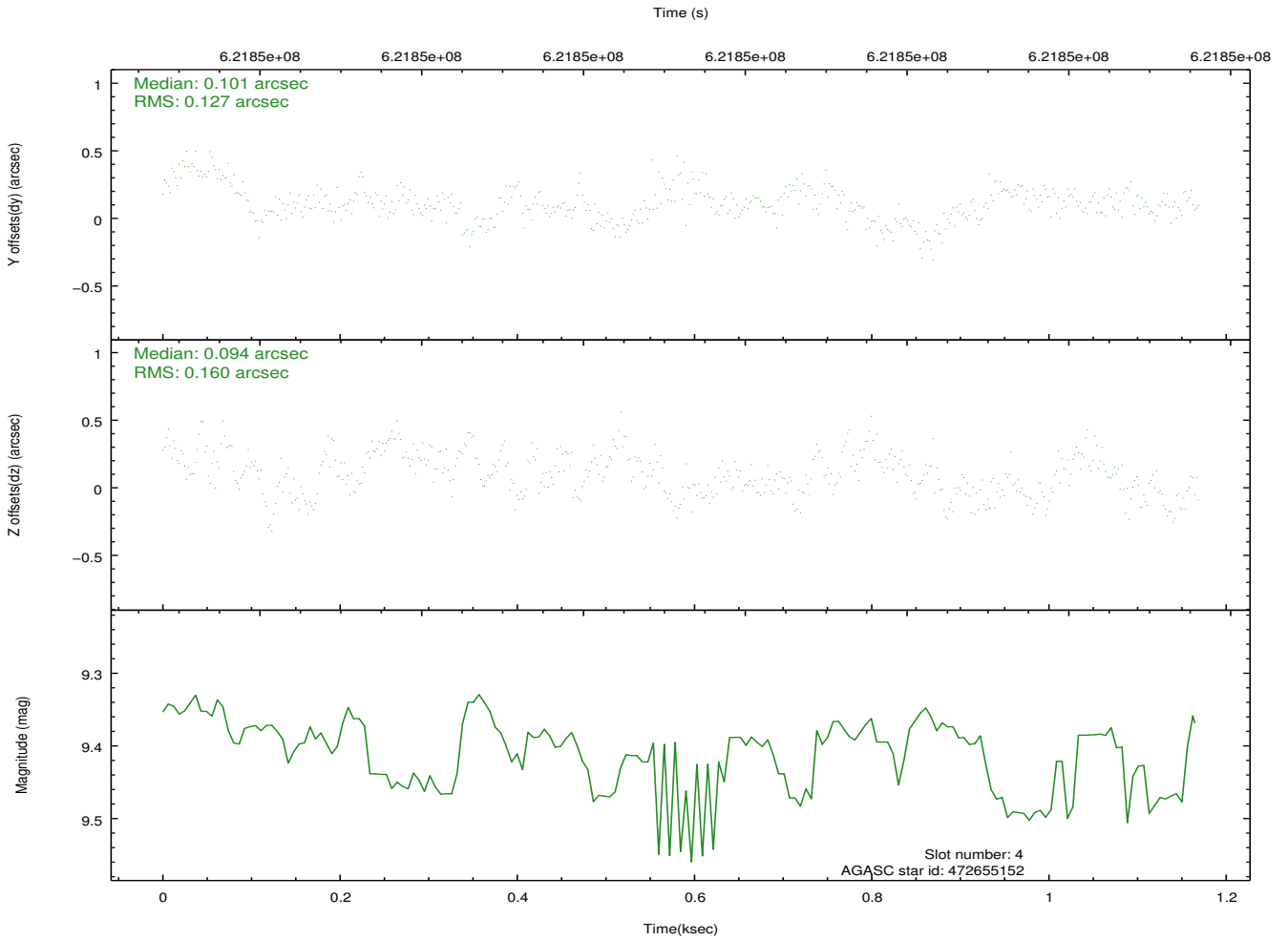
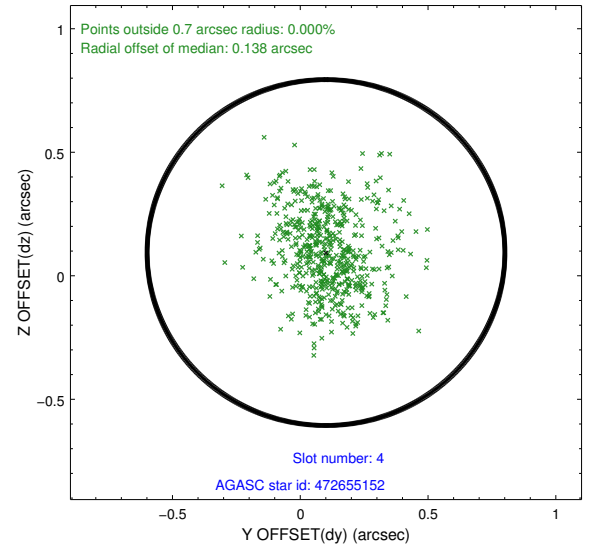
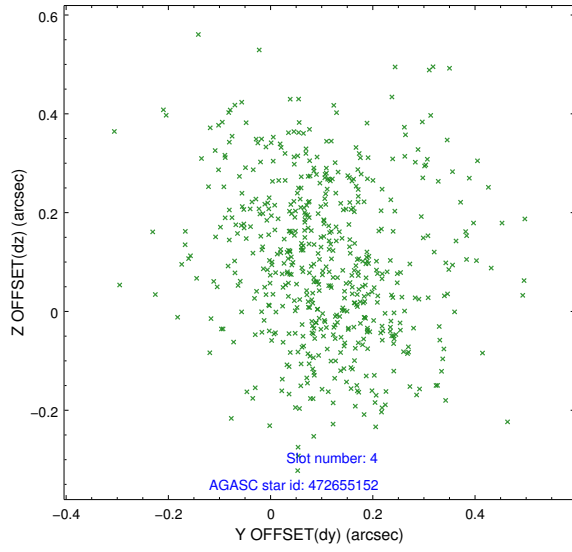
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-1	7.04	285	-0.059	-0.243	0.007	0.010	0.000000	0.000000	-1172.73	-467.65
1	FID		HRC-S-2	7.00	285	0.356	-0.116	0.005	0.009	0.000000	0.000000	1223.23	-461.68
2	FID		HRC-S-3	7.02	285	0.091	0.057	0.006	0.010	0.000000	0.000000	-1171.06	560.55
3	GUIDE	used	472523760	8.22	571	-0.275	-0.222	0.129	0.225	331.645363	45.403260	1790.27	407.51
4	GUIDE	used	472655152	9.40	571	0.101	0.094	0.216	0.358	332.504239	45.862991	-882.80	-91.87
5	GUIDE	used	472663080	9.31	571	0.409	0.375	0.246	0.514	332.652741	46.473840	-2199.05	-1896.10
6	GUIDE	used	420754040	9.02	571	-0.633	-0.479	0.177	0.276	331.917939	44.882543	2019.83	2388.61
7	GUIDE	used	472665256	8.96	570	0.399	0.225	0.172	0.285	332.808125	46.195041	-2094.18	-821.05

2.4 Star Slots

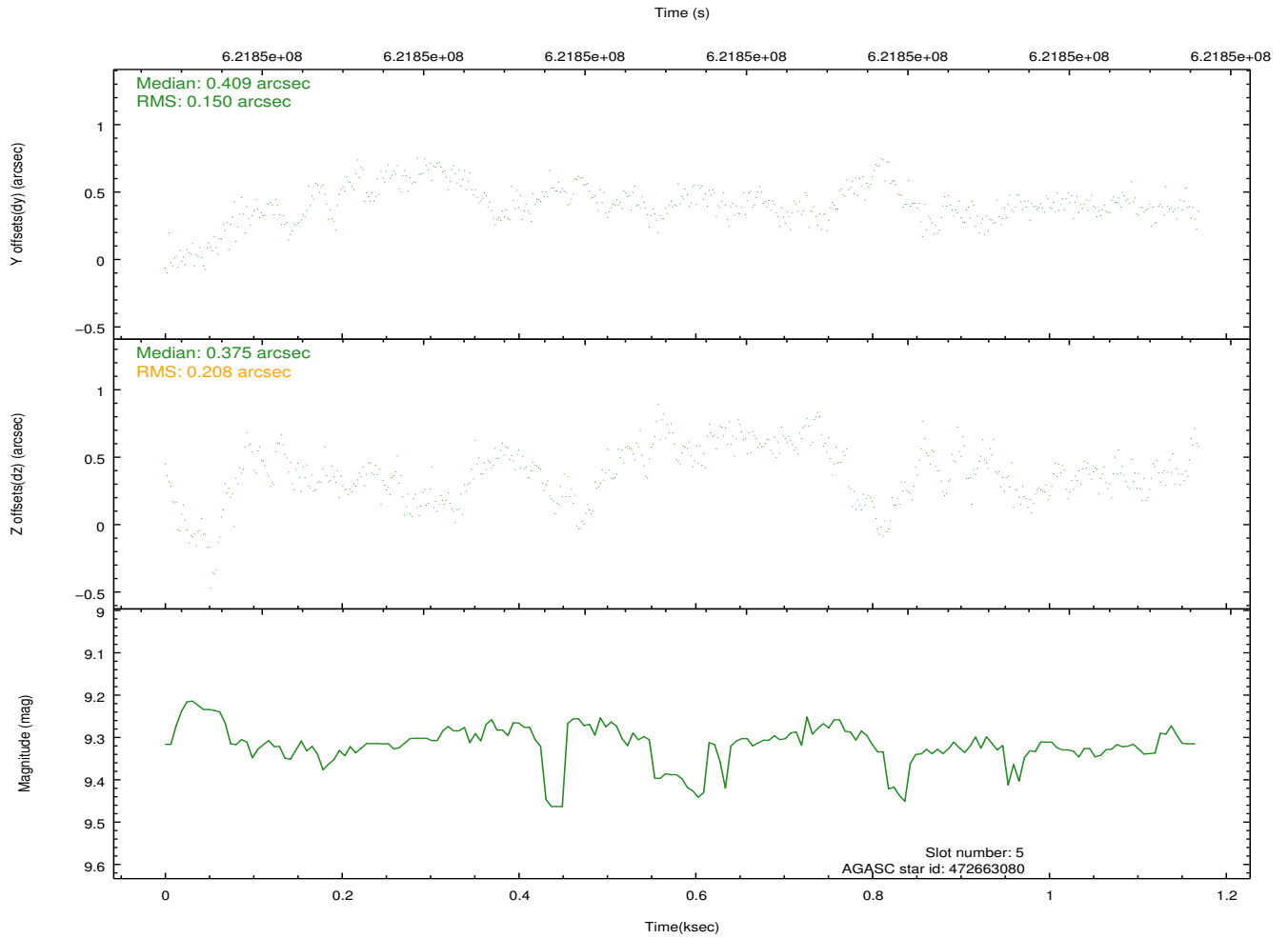
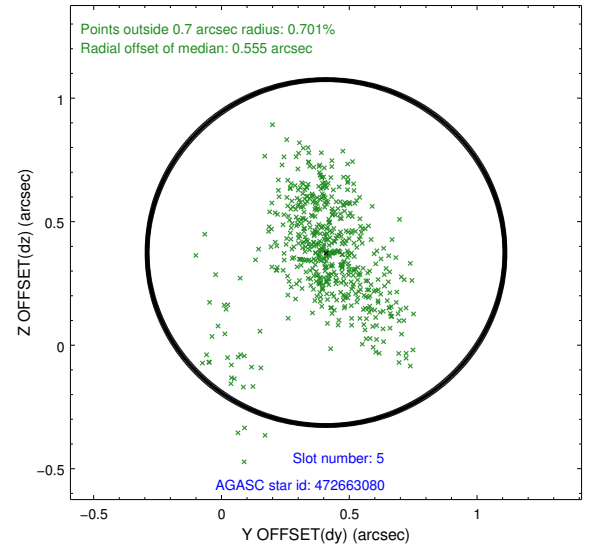
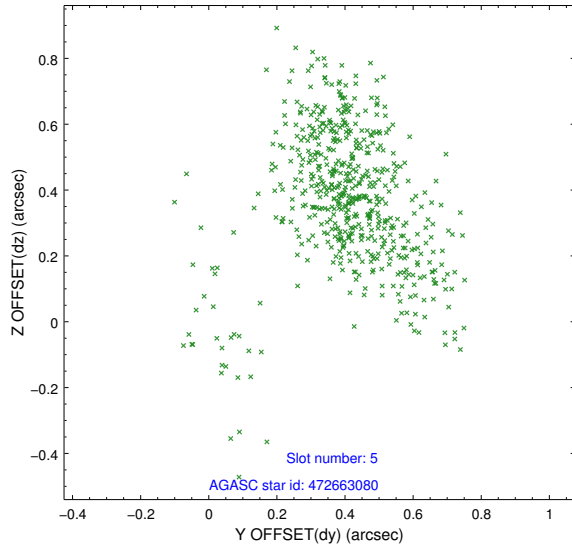
2.4.1 Slot 3



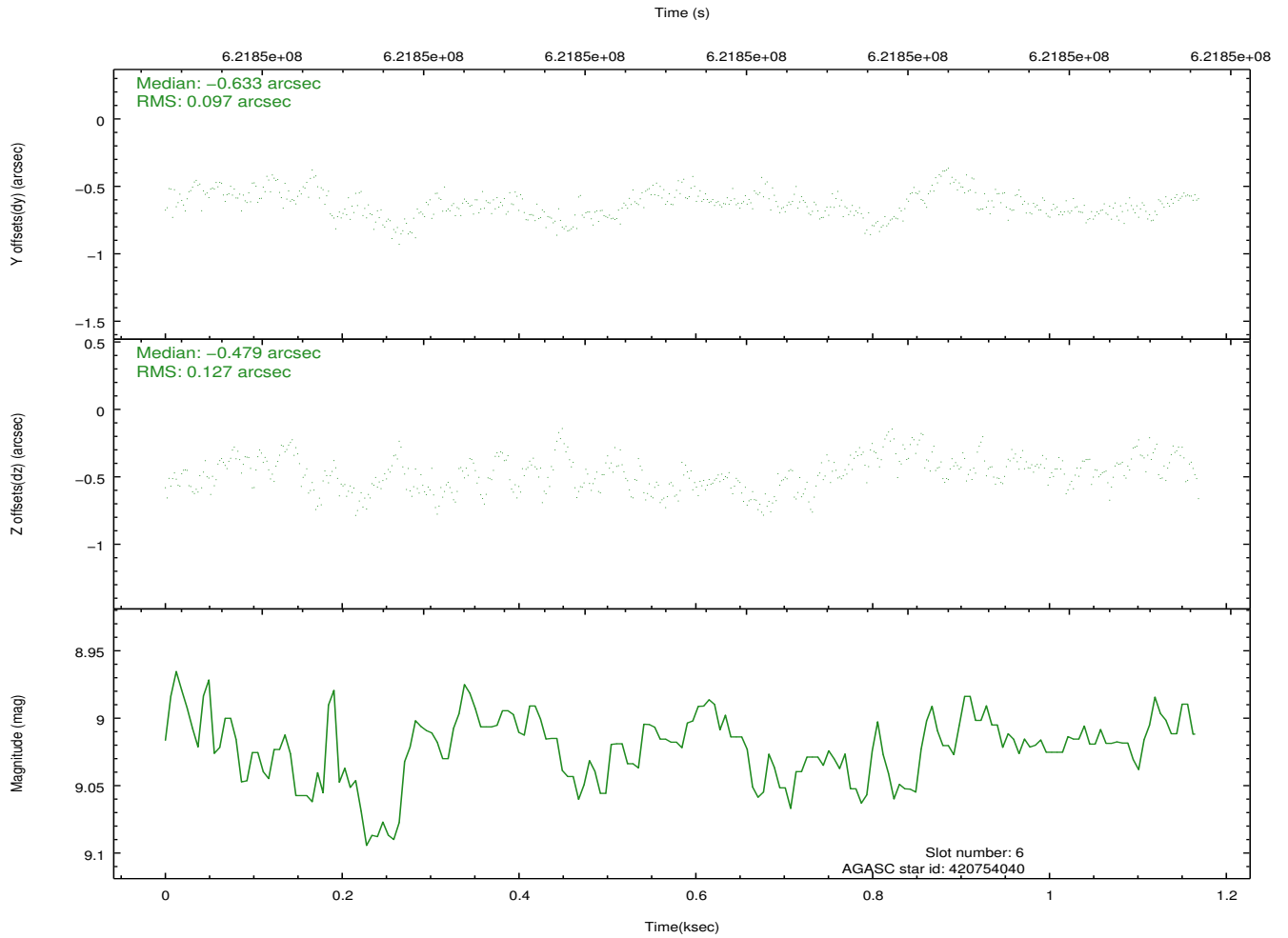
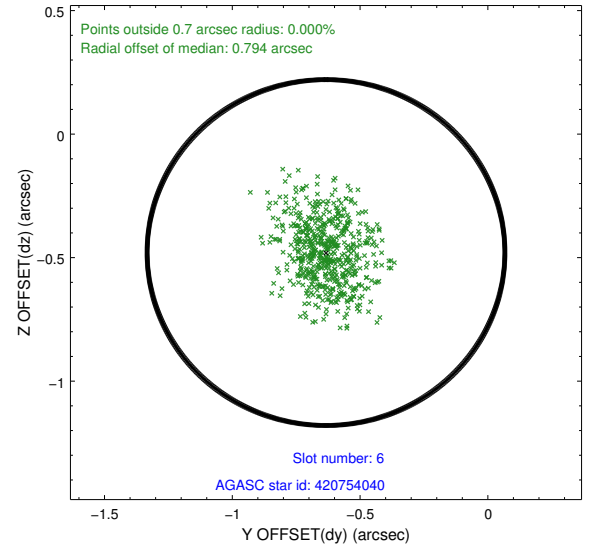
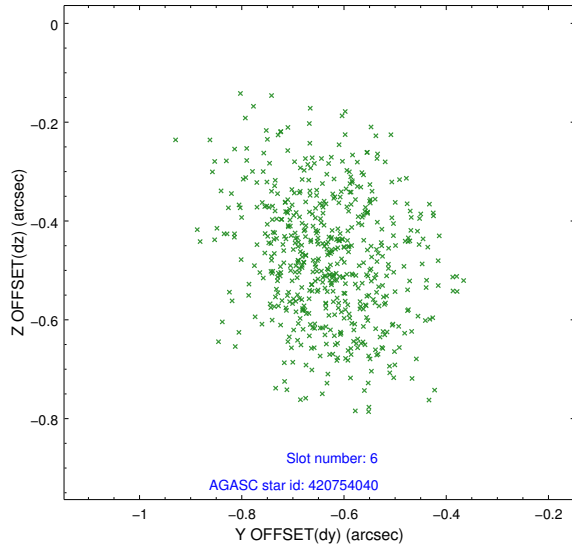
2.4.2 Slot 4



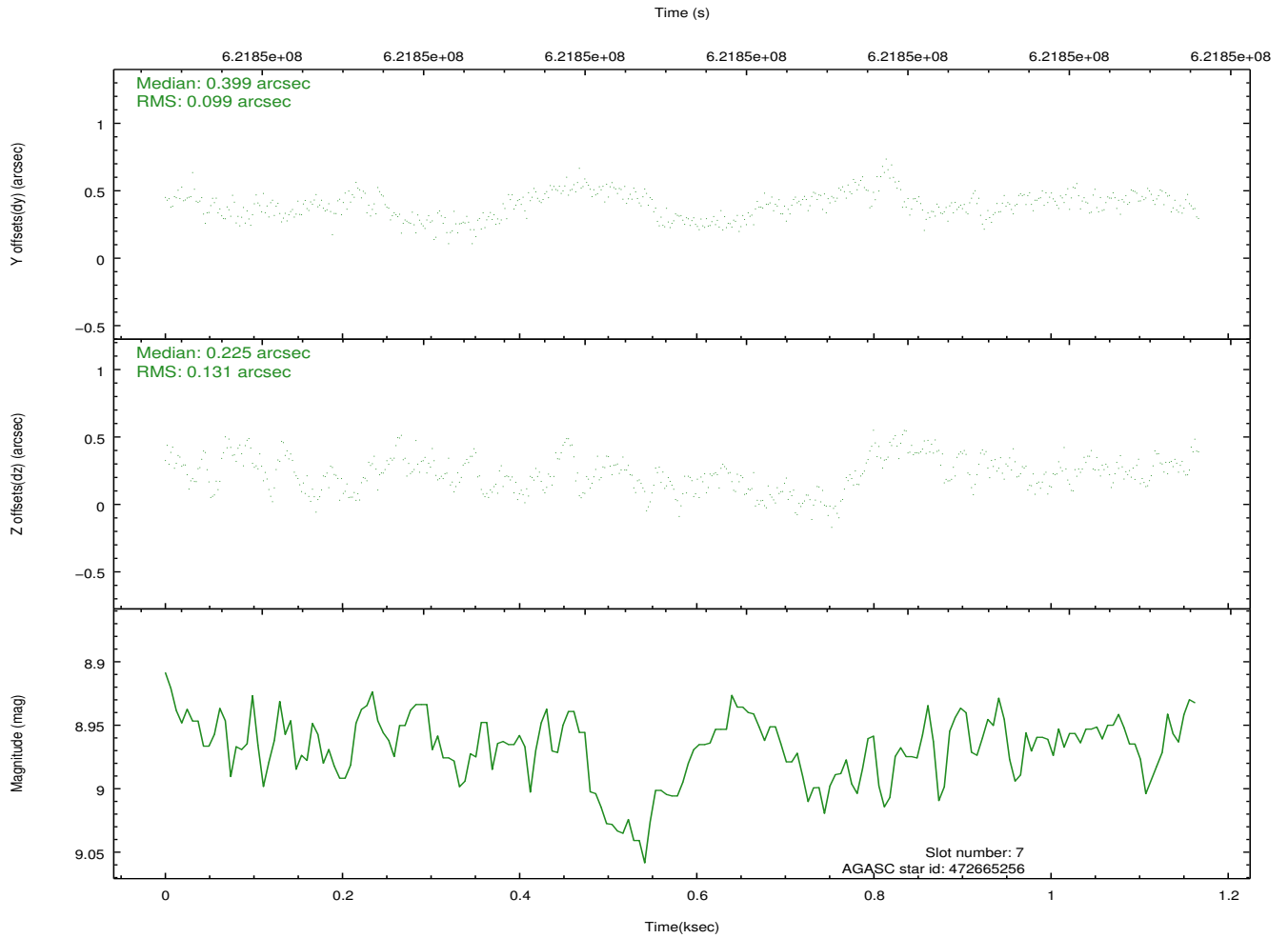
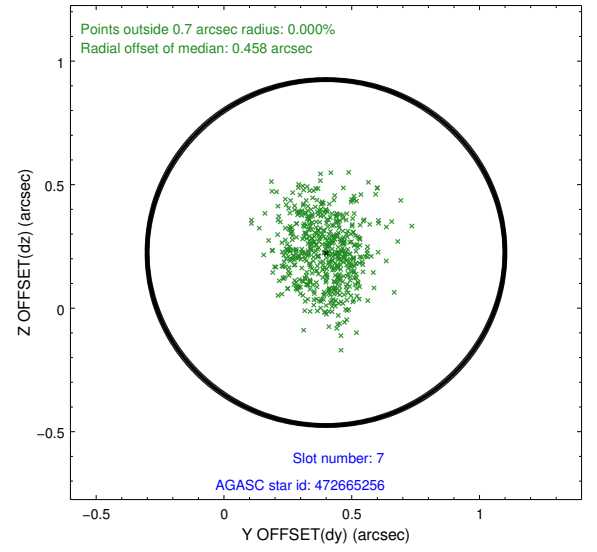
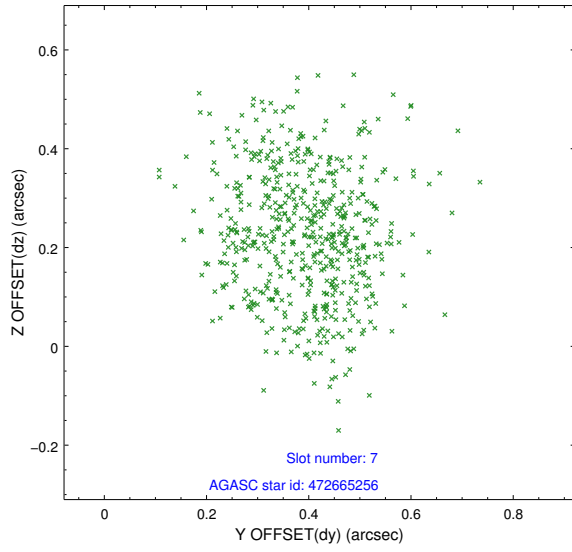
2.4.3 Slot 5



2.4.4 Slot 6

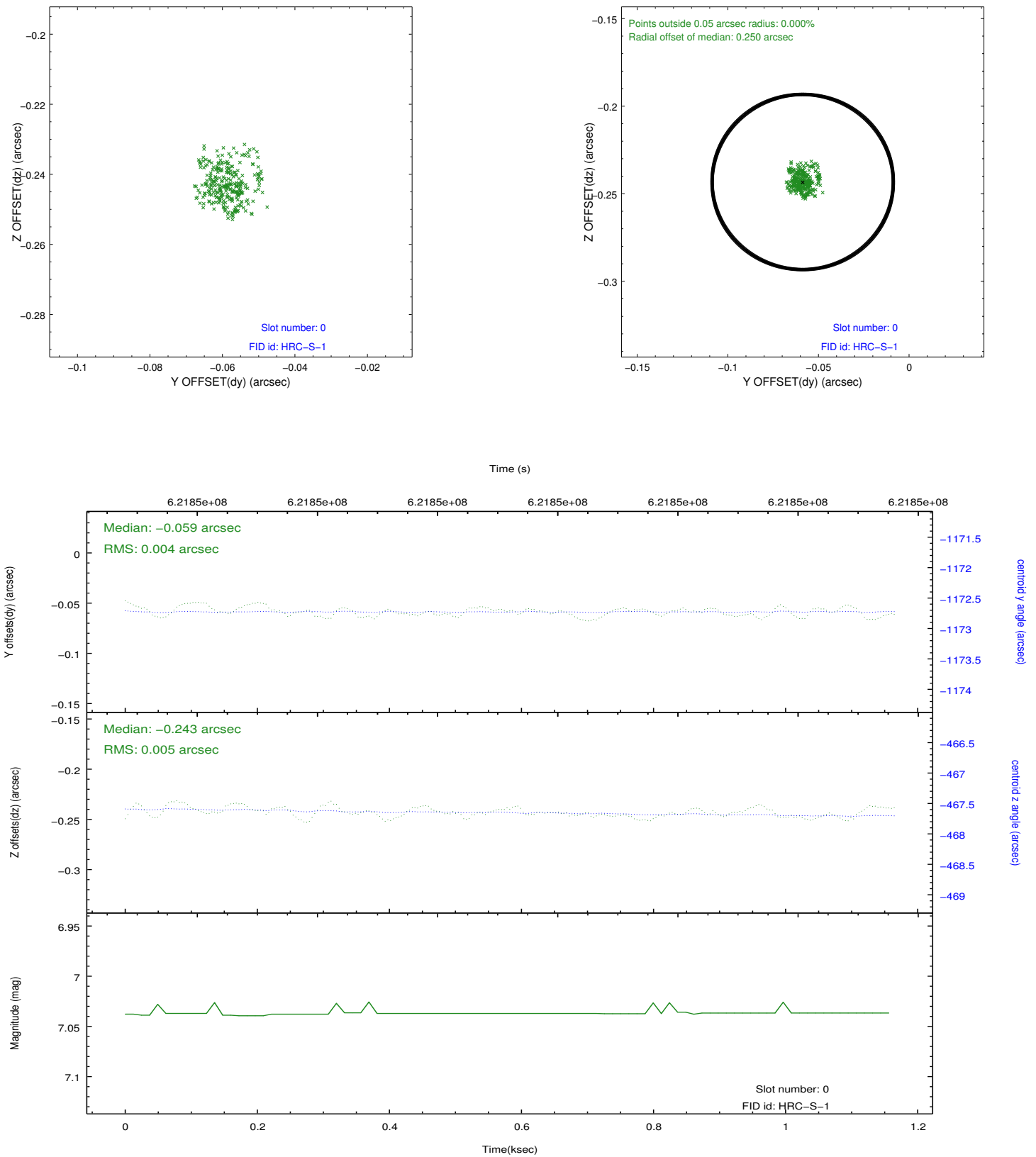


2.4.5 Slot 7

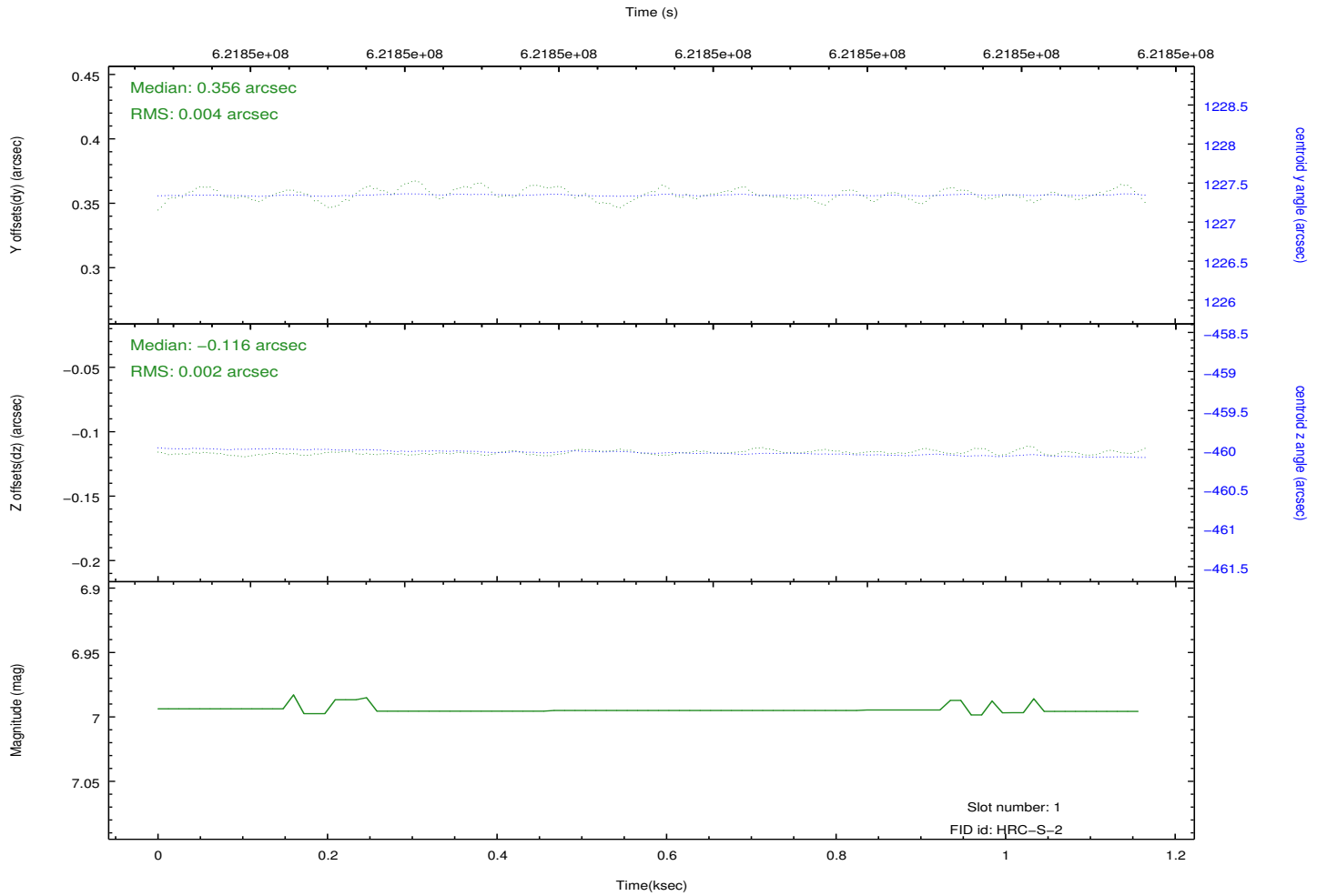
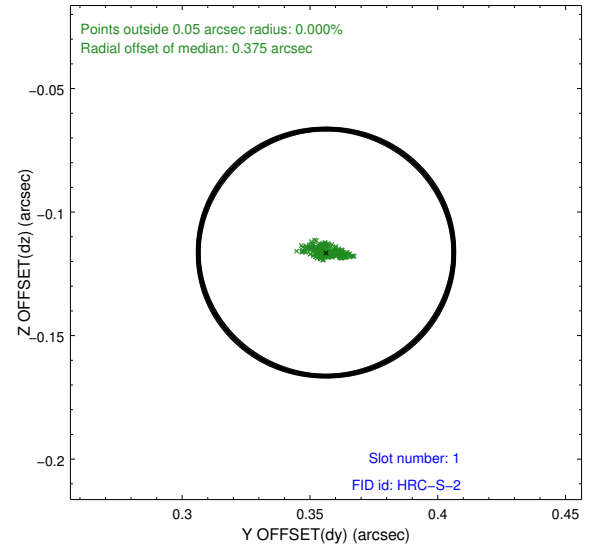
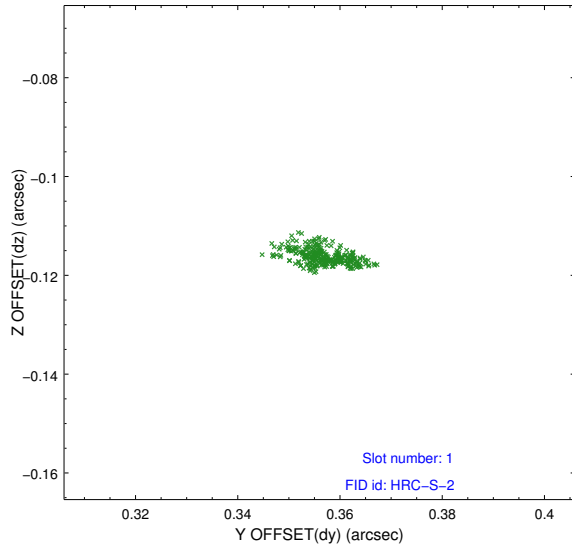


2.5 FID Slots

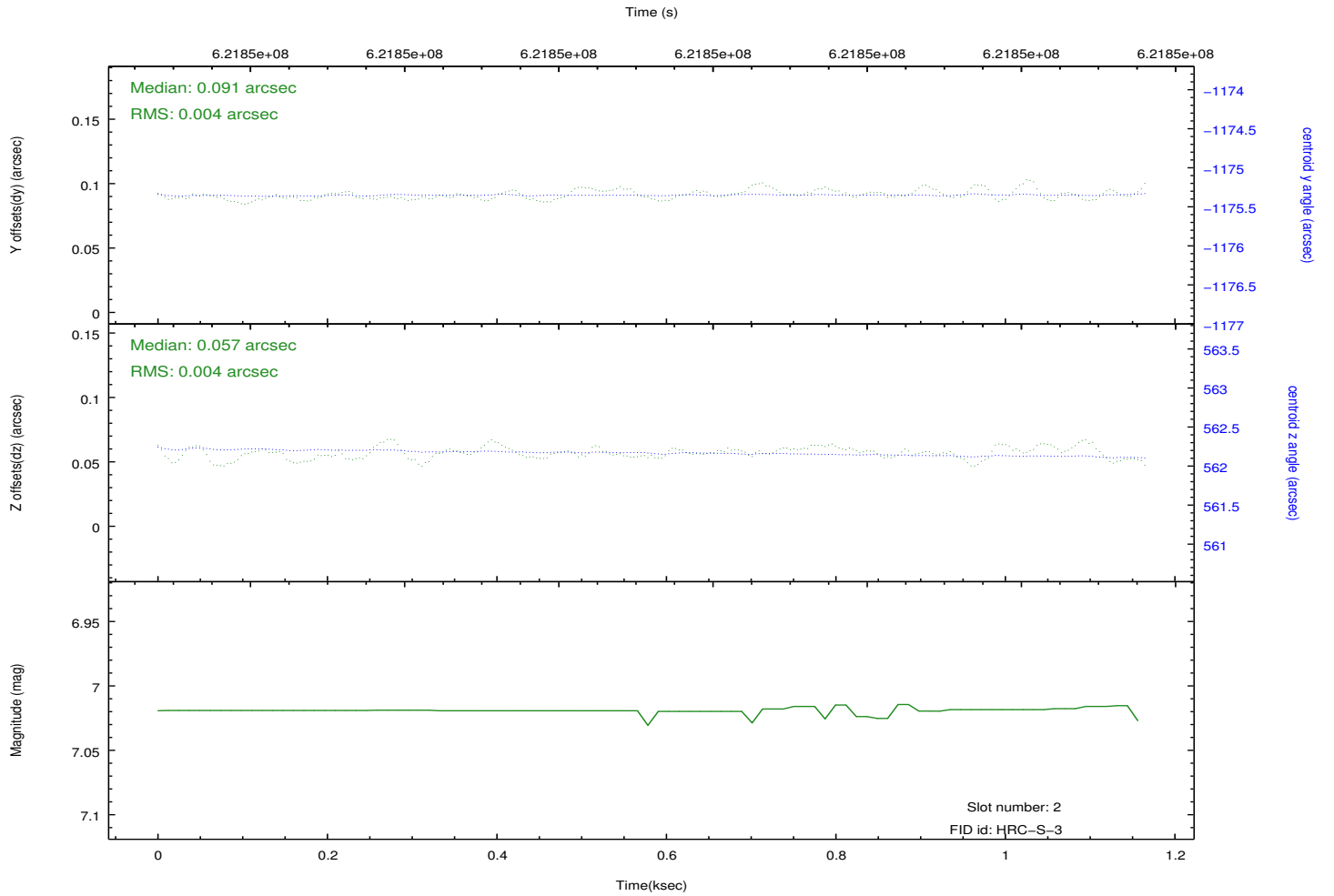
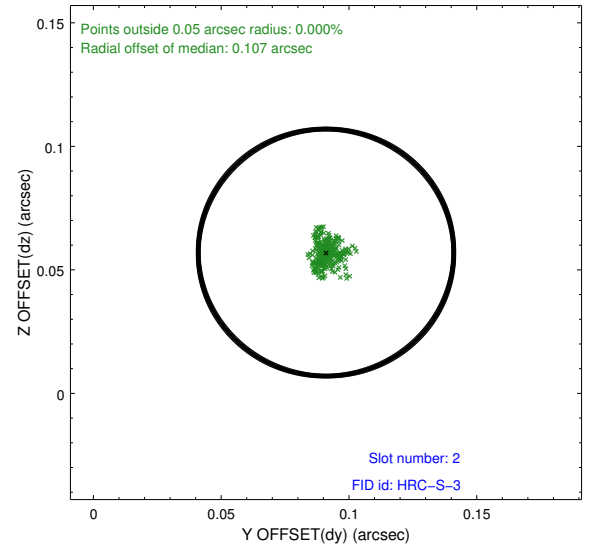
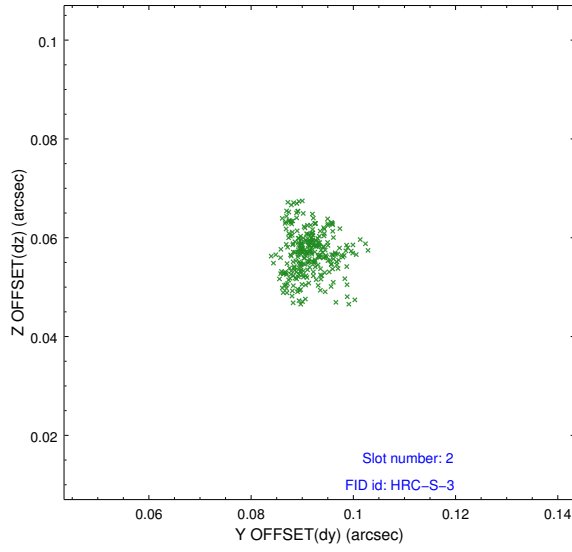
2.5.1 Slot 0



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)	2017.09.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1674750683308

A.2 Comments