

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19795 - L2 Version 1
Chandra X-Ray Center

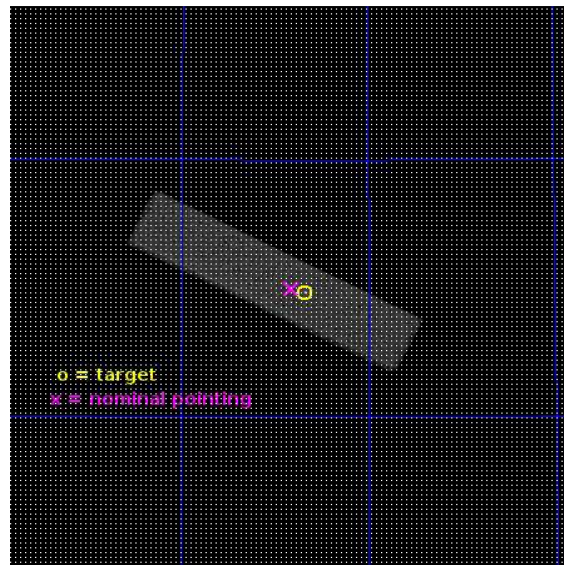
L2 Processing Date : Sep 15 2017

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

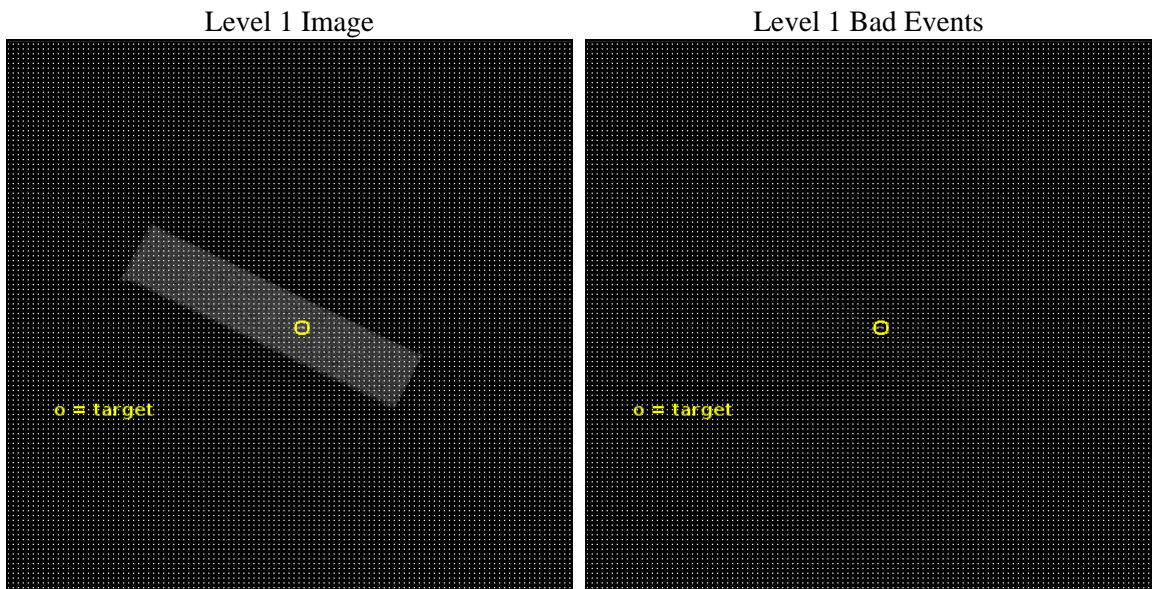
seq_num	291312	Sequence number
obs_id	19795	Observation id
title	AO-18 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.20542487379	Nominal RA [deg]
dec_nom	45.749385277106	Nominal Dec [deg]
roll_nom	206.71893248302	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1175.9313188791	[s]
livetime	1166.4602394664	Ontime multiplied by DTCOR
l2events	74843	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	1175.9313188791	[s]
caldsver	4.7.6	 	l1events	119051	Number of level 1 events
date	2017-09-15T14:43:55	Date and time of file creation			
revision	1	Processing version of data			

2.1.3 Events

Level 1 Events

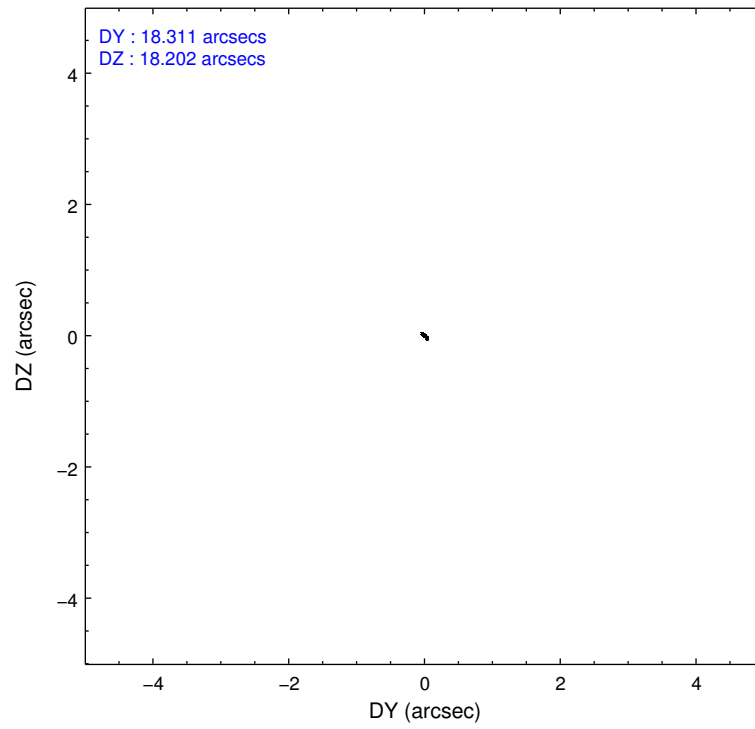
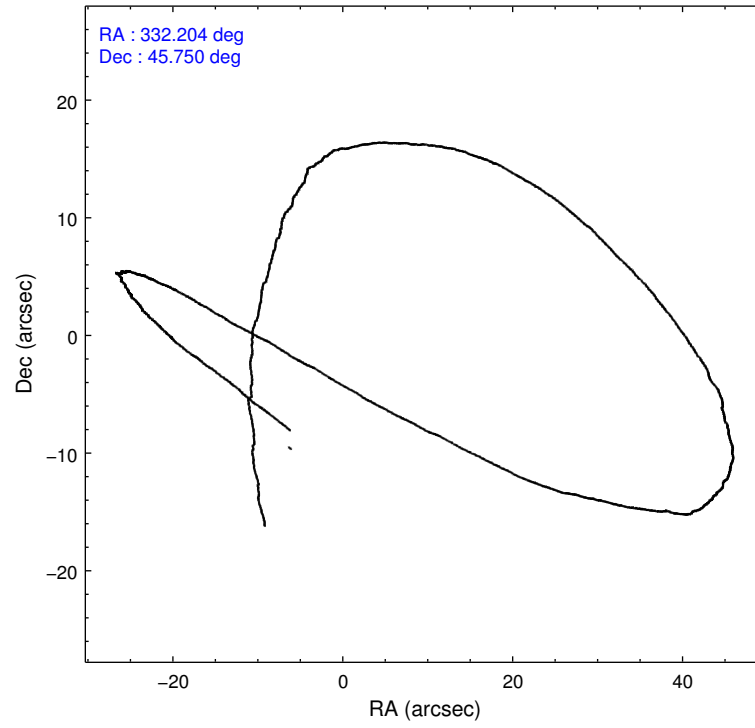
	segment 1	segment 2	segment 3
level 1 events	944	117259	848
rejected events	944	30271	848
rejected %	100%	25%	100%

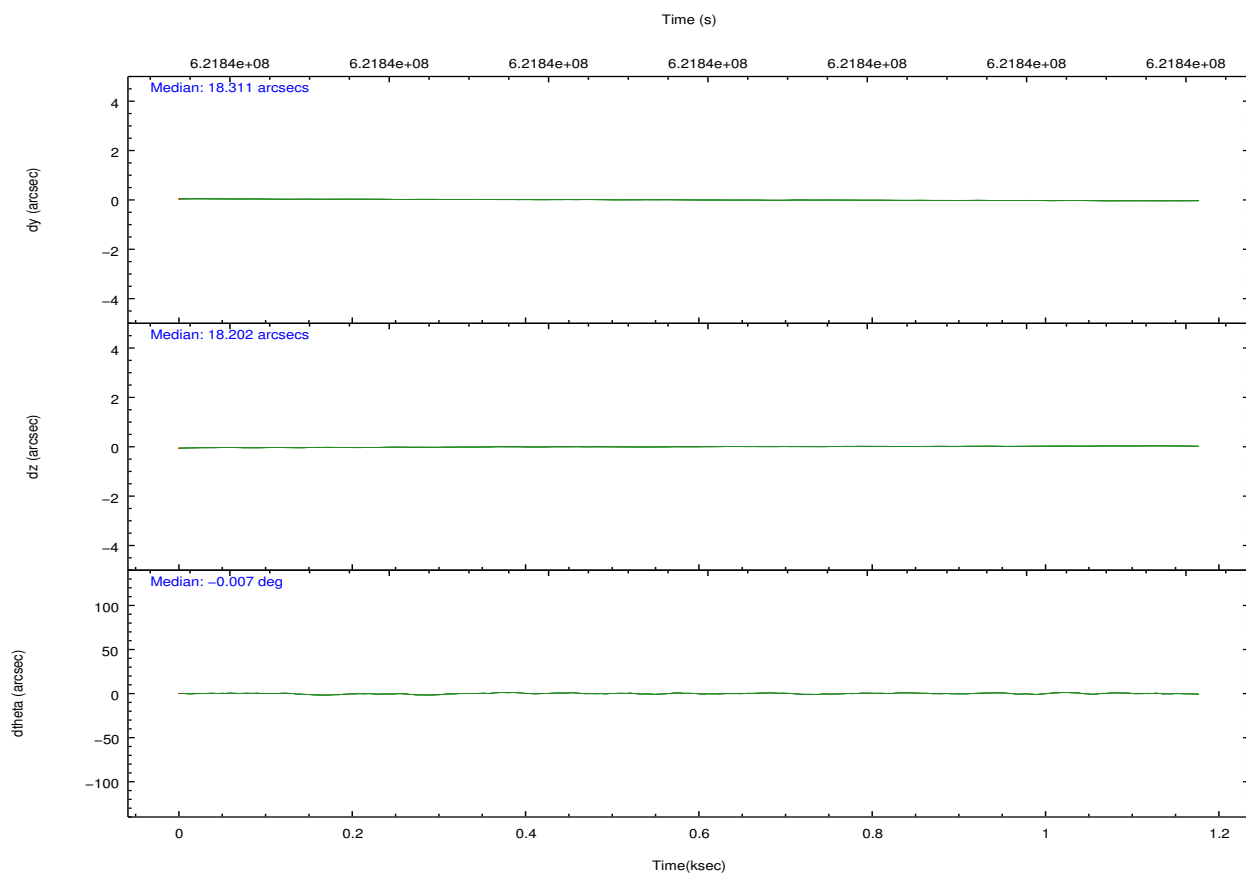
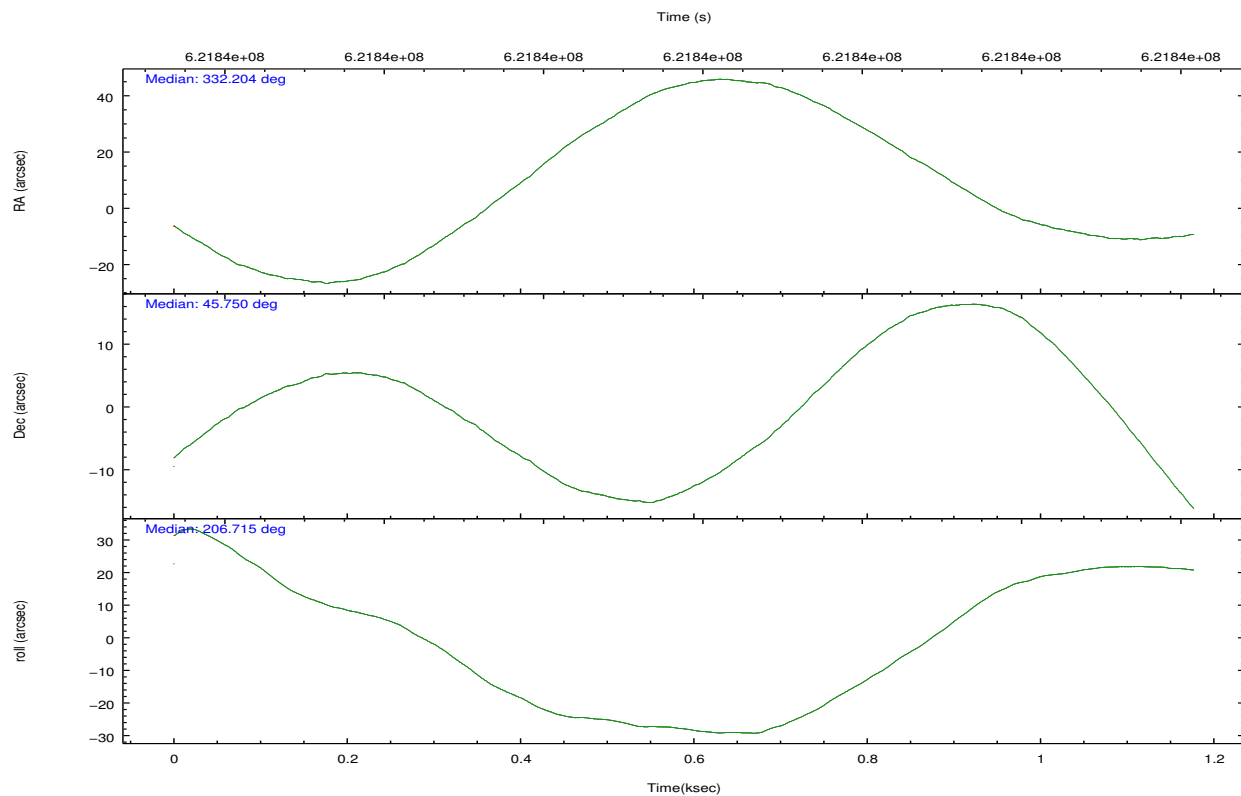
2.2 Compared Parameters

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	332.227571	332.2054248737946
[deg] Pointing Dec	45.773437	45.74938527710642
[deg] Pointing Roll	206.635404	206.7189324830165
[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)	621843372.184000	621842912.38099
Observation start date	2017-09-15T06:15:03	2017-09-15T06:08:32
[s] Observation end time (MET)	621844372.184000	621844506.25608
Observation end date	2017-09-15T06:31:43	2017-09-15T06:35:06

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

2.3 Aspect



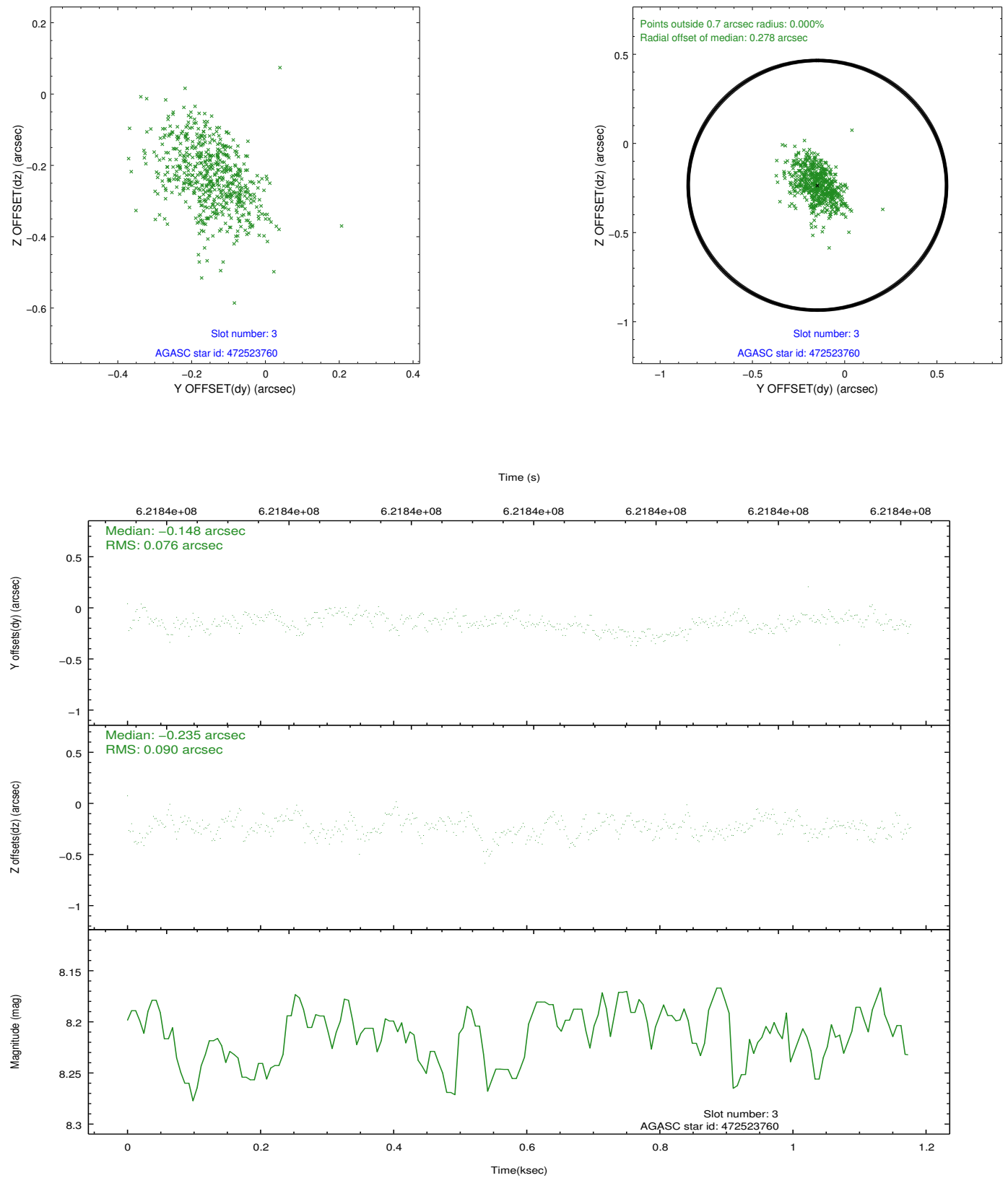


Slot Statistics

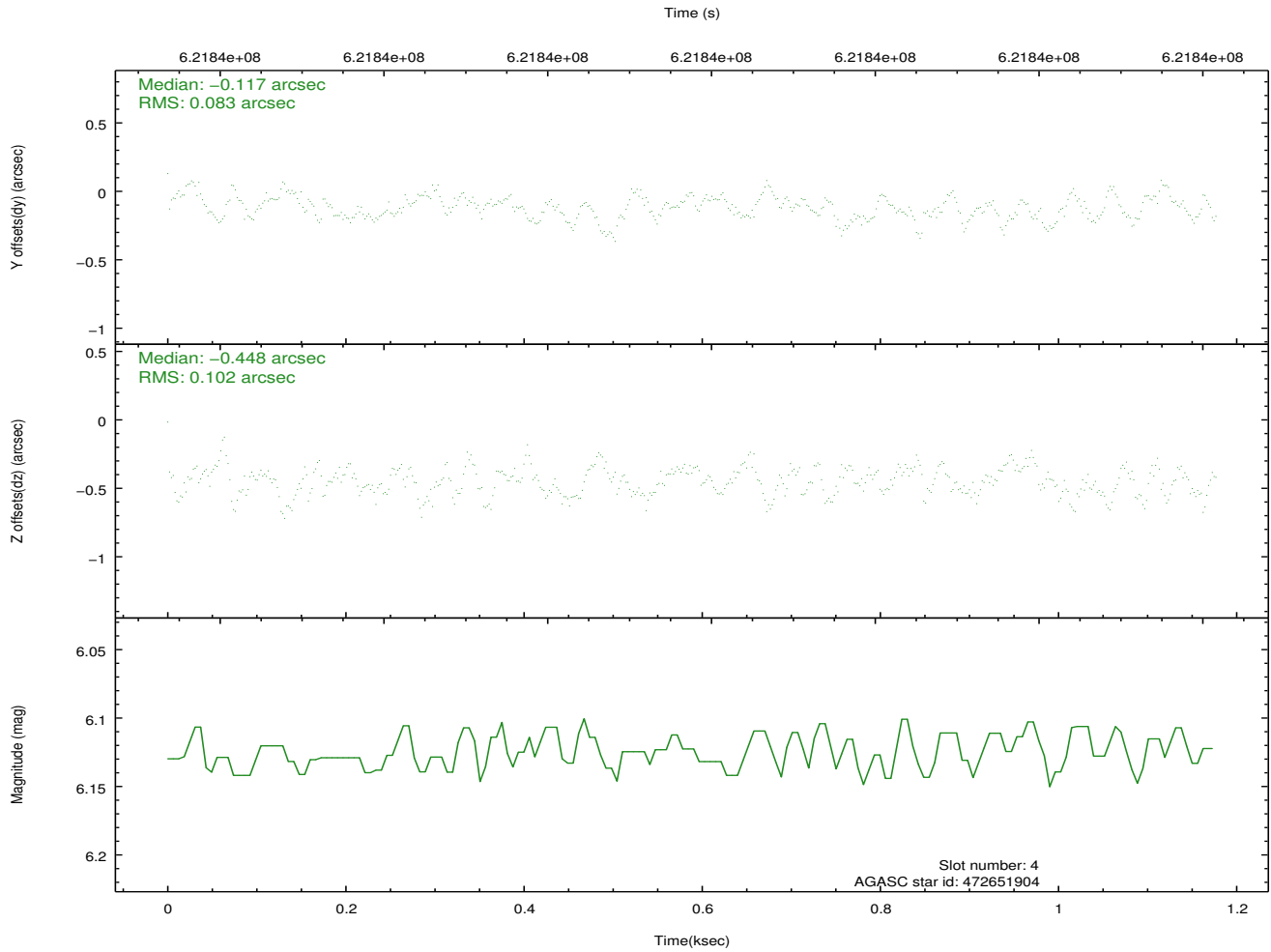
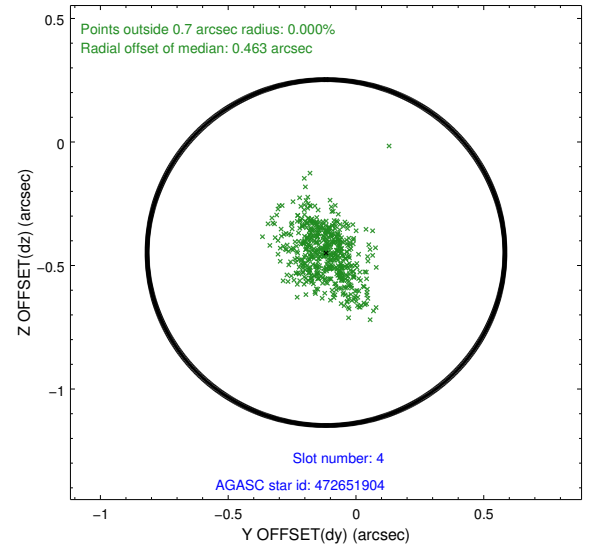
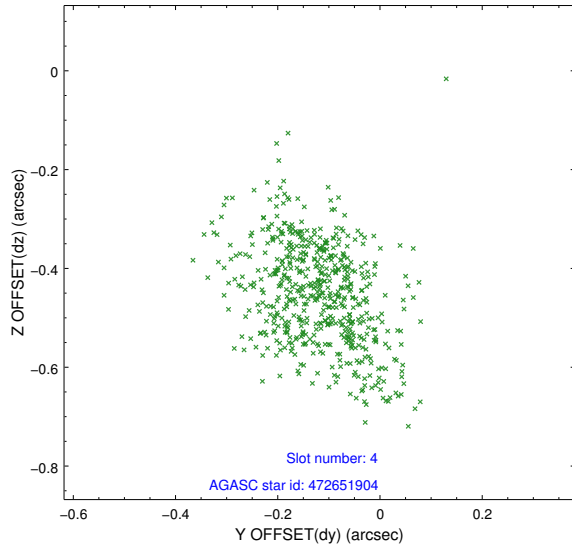
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-1	7.03	288	-0.057	-0.228	0.008	0.011	0.000000	0.000000	-1172.89	-467.29
1	FID		HRC-S-2	6.99	288	0.352	-0.114	0.005	0.009	0.000000	0.000000	1223.10	-461.30
2	FID		HRC-S-3	7.02	288	0.096	0.041	0.007	0.012	0.000000	0.000000	-1171.27	560.90
3	GUIDE	used	472523760	8.21	575	-0.148	-0.235	0.122	0.206	331.645363	45.403260	1909.52	530.83
4	GUIDE	used	472651904	6.13	575	-0.117	-0.448	0.134	0.235	332.170077	45.742257	182.09	39.01
5	GUIDE	used	472665256	8.96	575	0.469	0.309	0.148	0.245	332.808125	46.195041	-1976.11	-708.43
6	GUIDE	used	472525528	6.63	575	-0.778	-0.037	0.121	0.236	331.551102	45.248694	2371.01	916.62
7	GUIDE	used	472663080	9.33	572	0.575	0.430	0.176	0.295	332.652741	46.473840	-2070.00	-1777.76

2.4 Star Slots

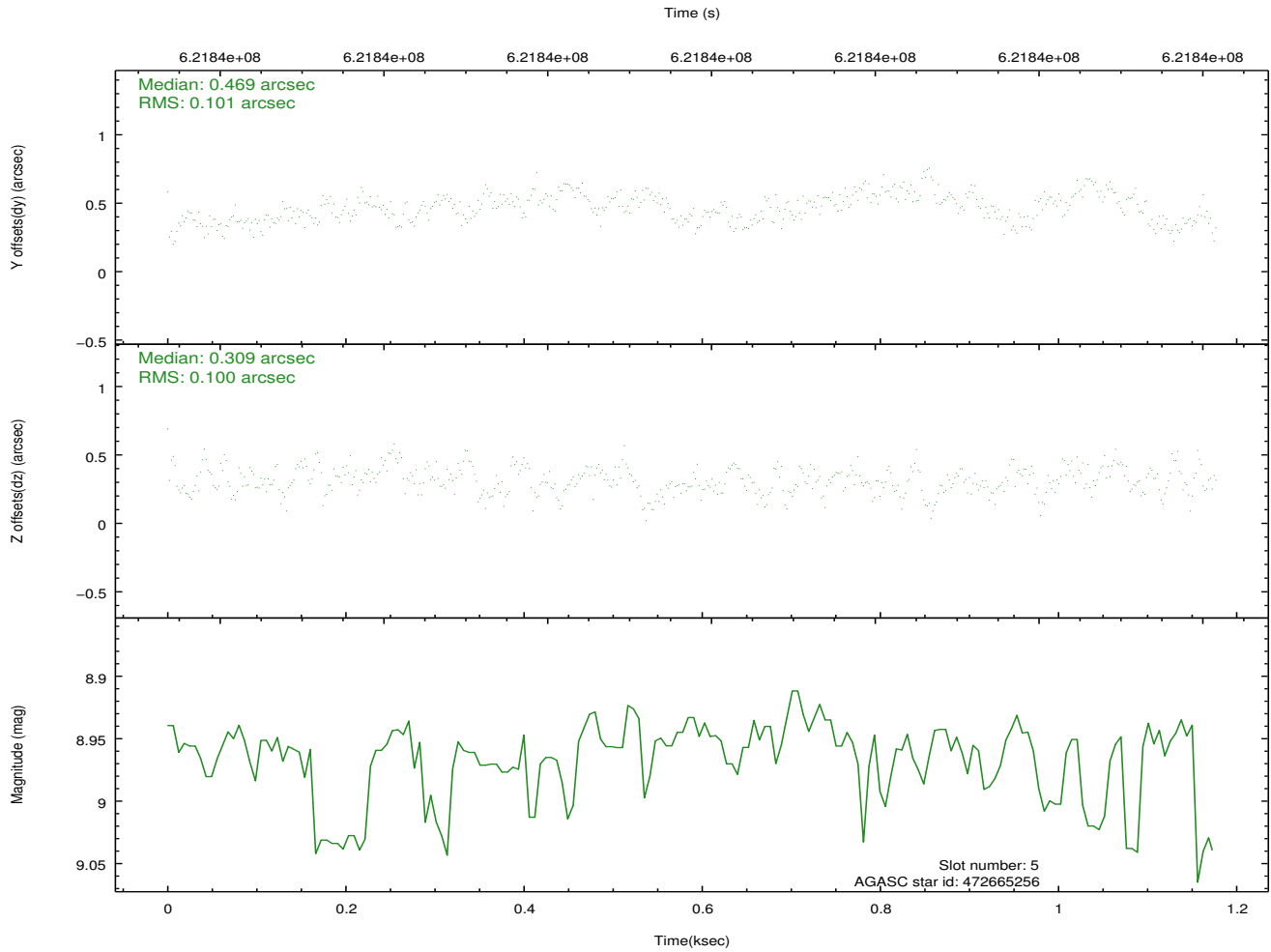
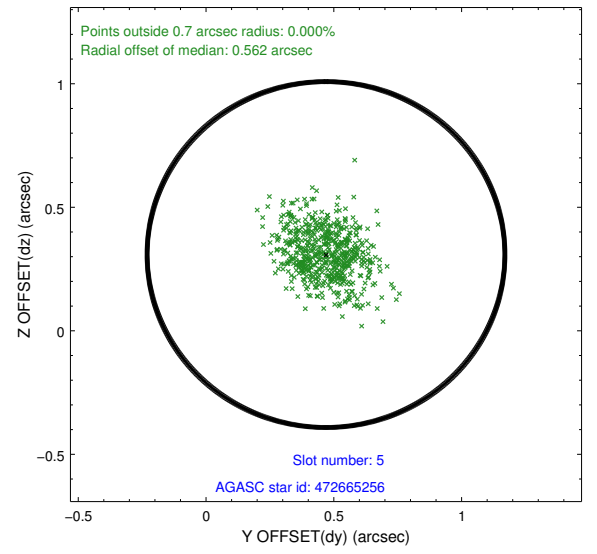
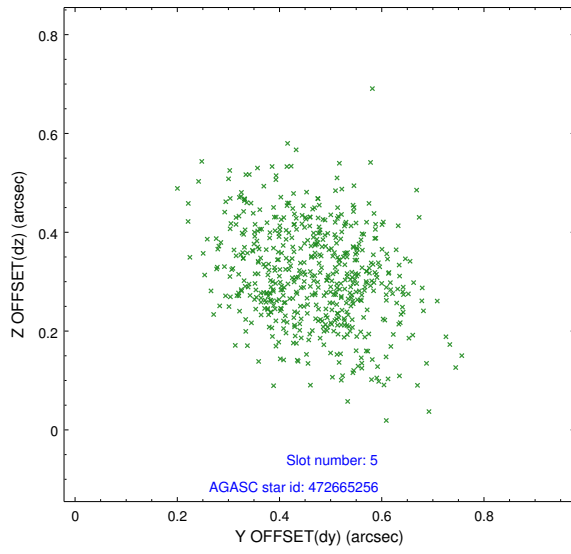
2.4.1 Slot 3



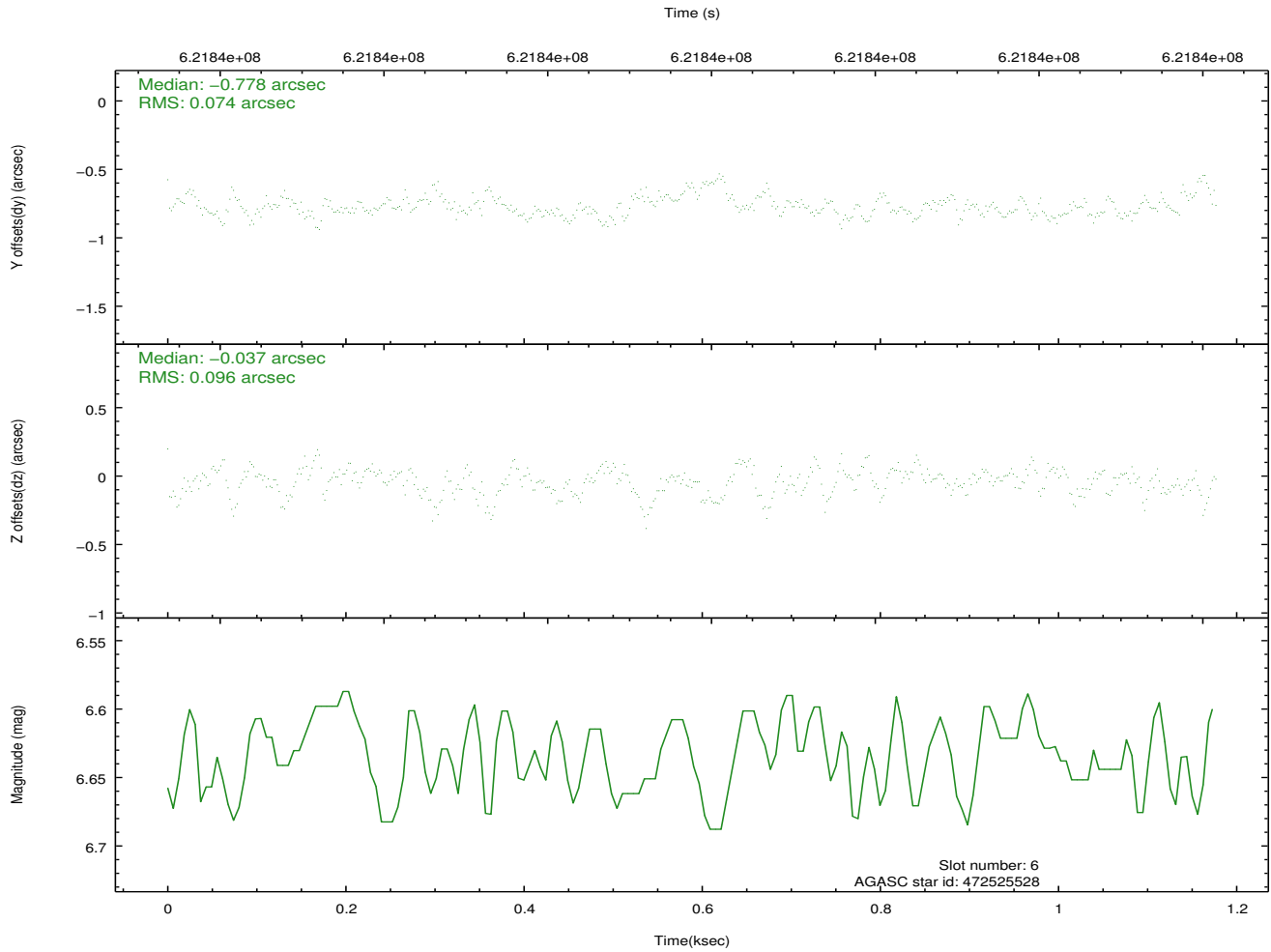
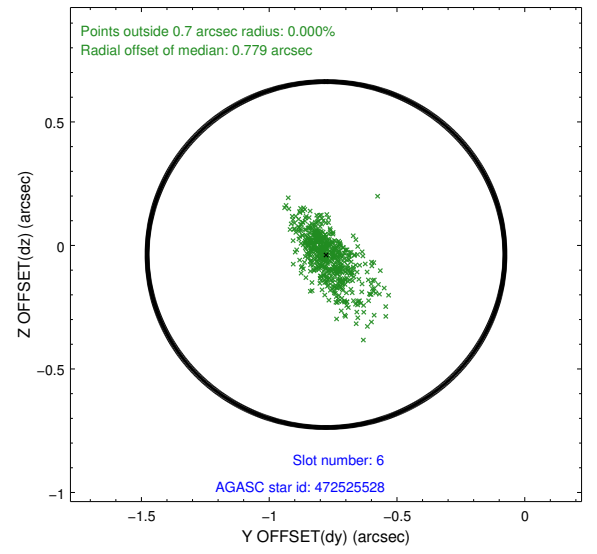
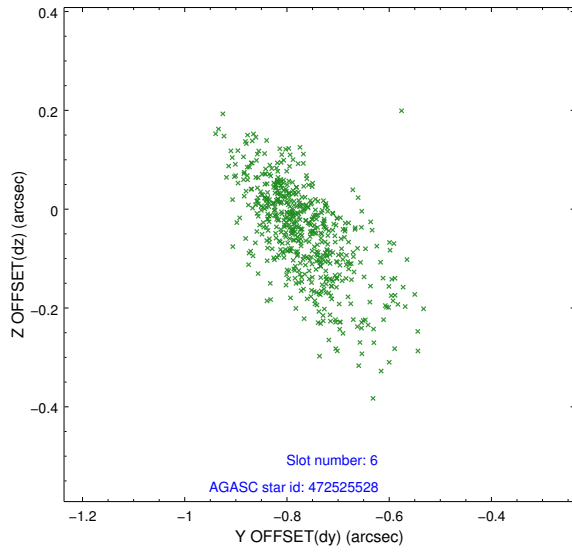
2.4.2 Slot 4



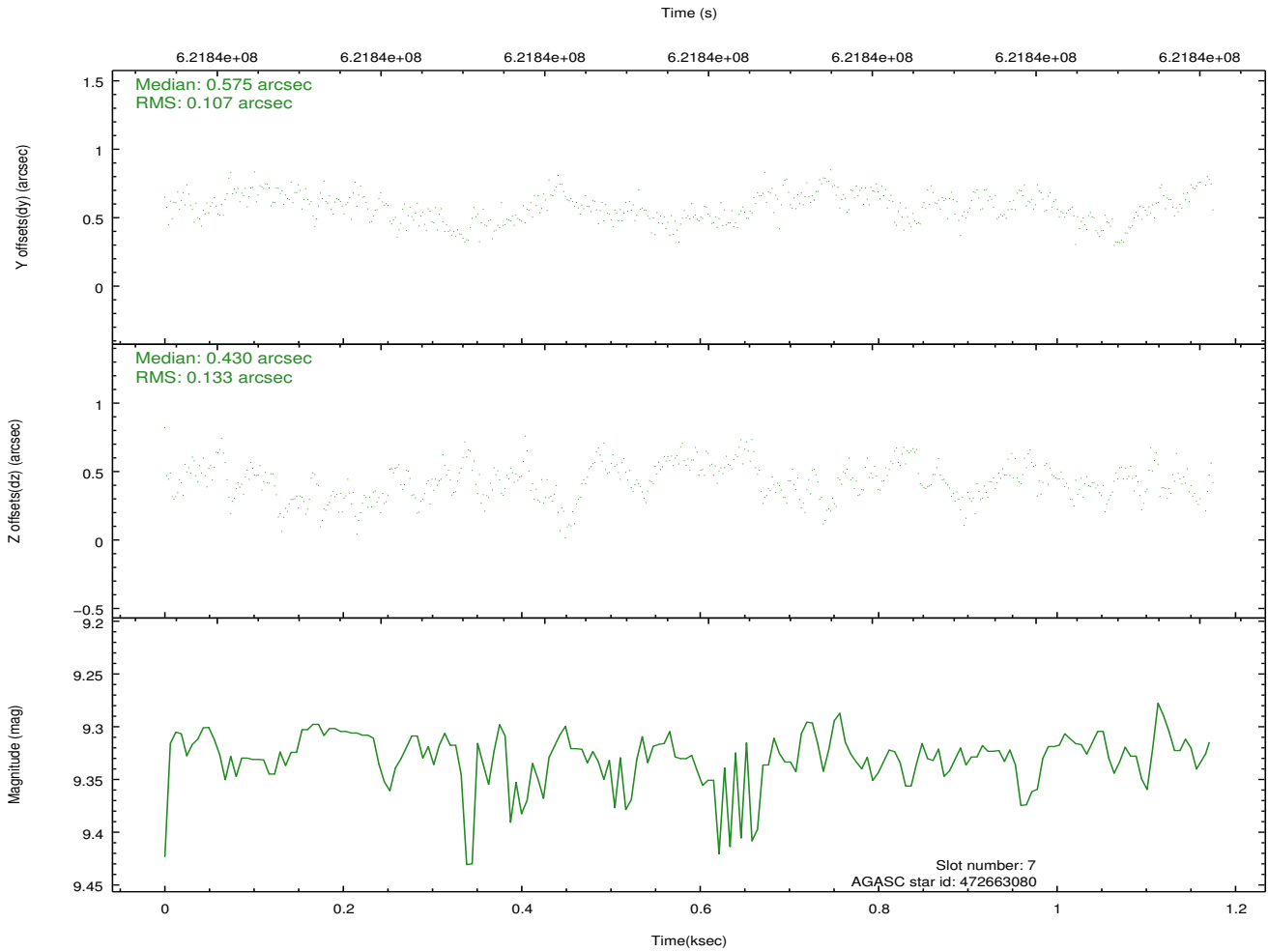
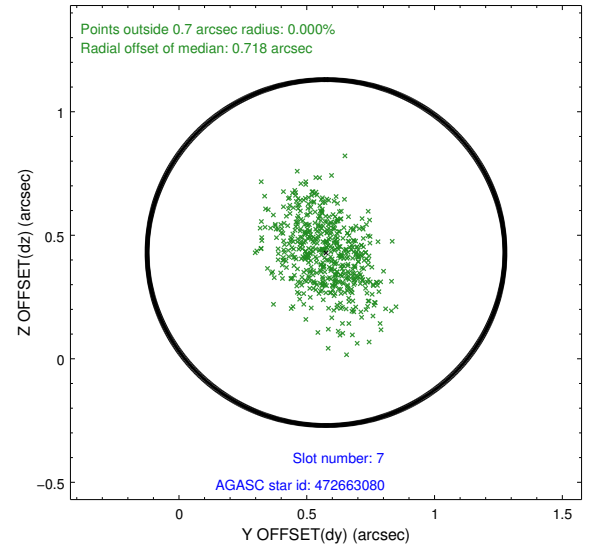
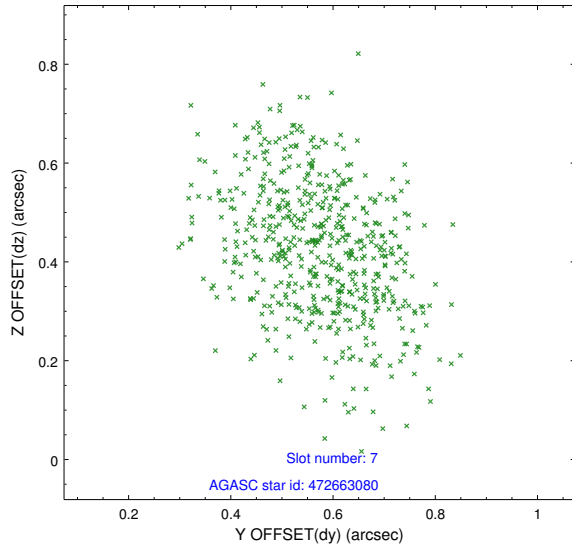
2.4.3 Slot 5



2.4.4 Slot 6

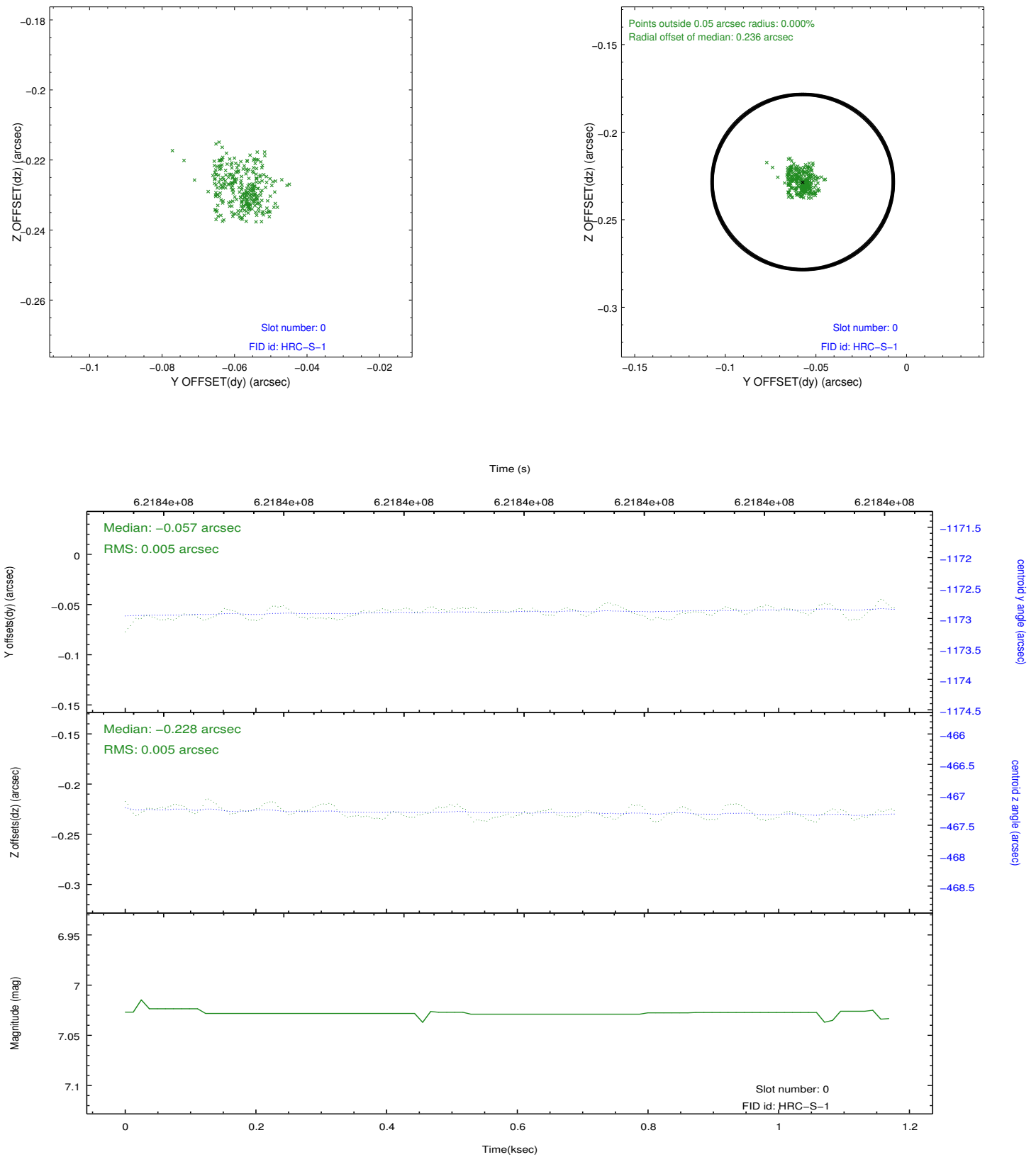


2.4.5 Slot 7

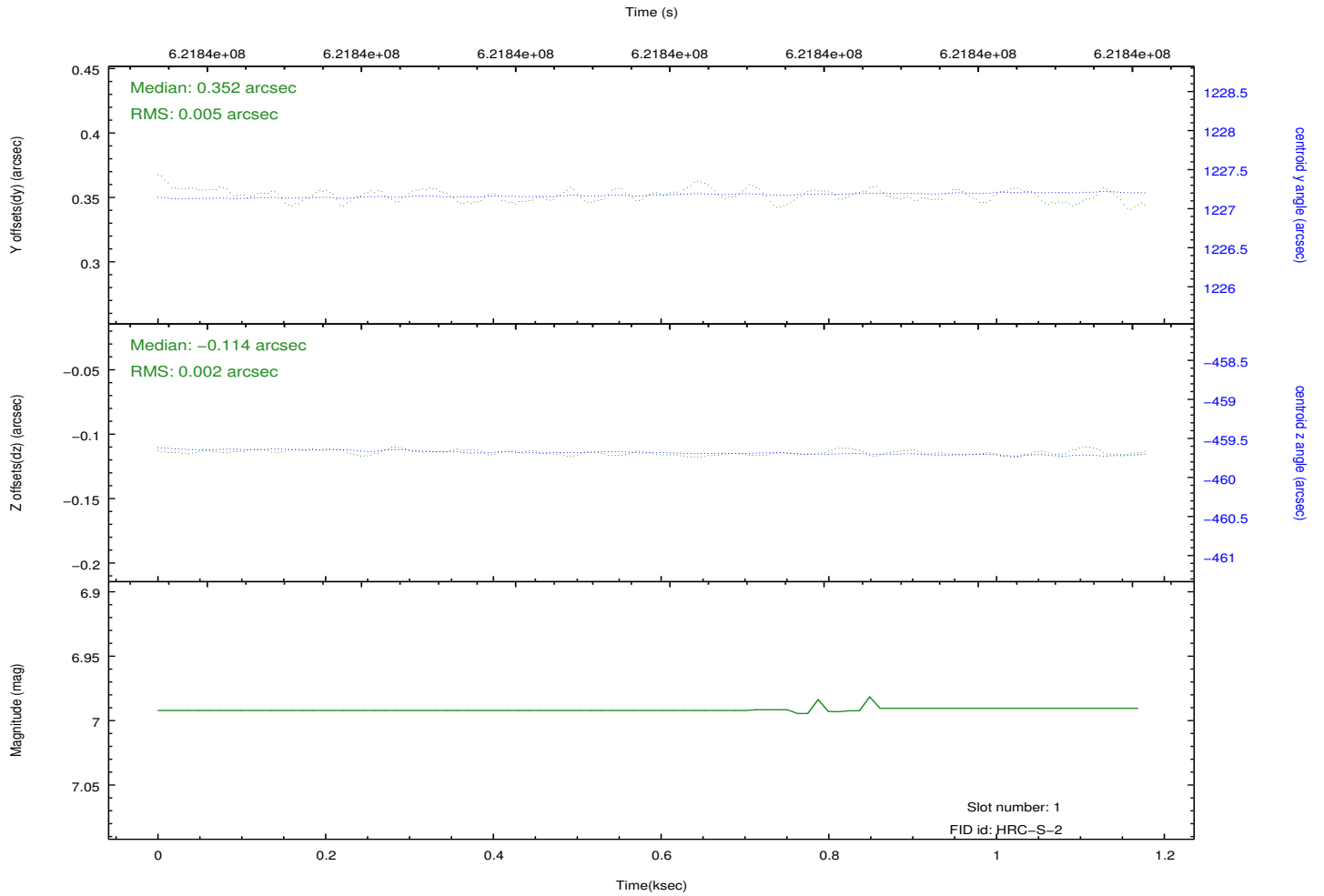
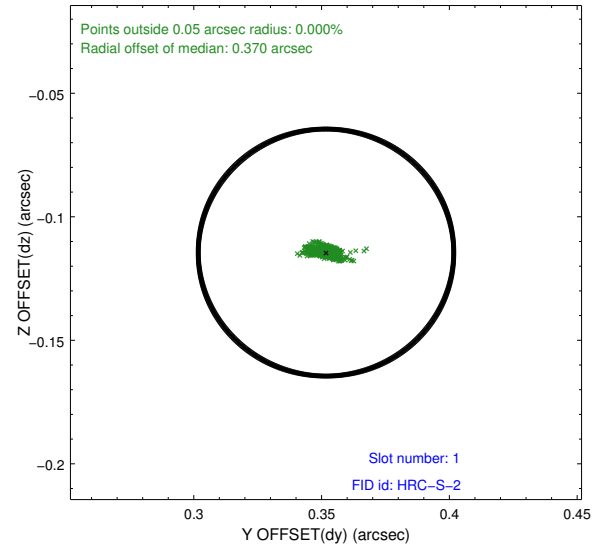
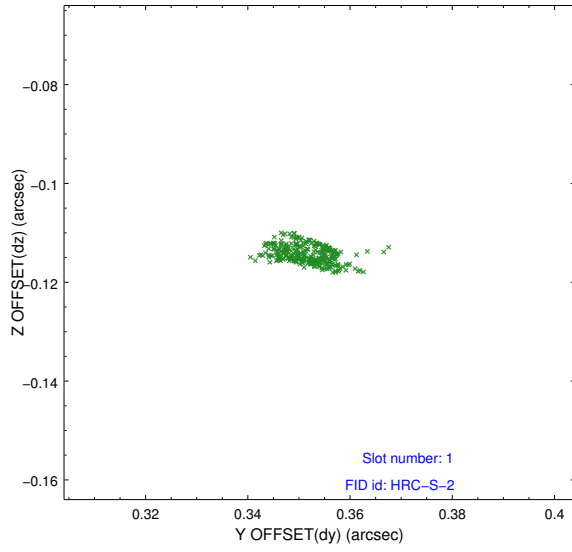


2.5 FID Slots

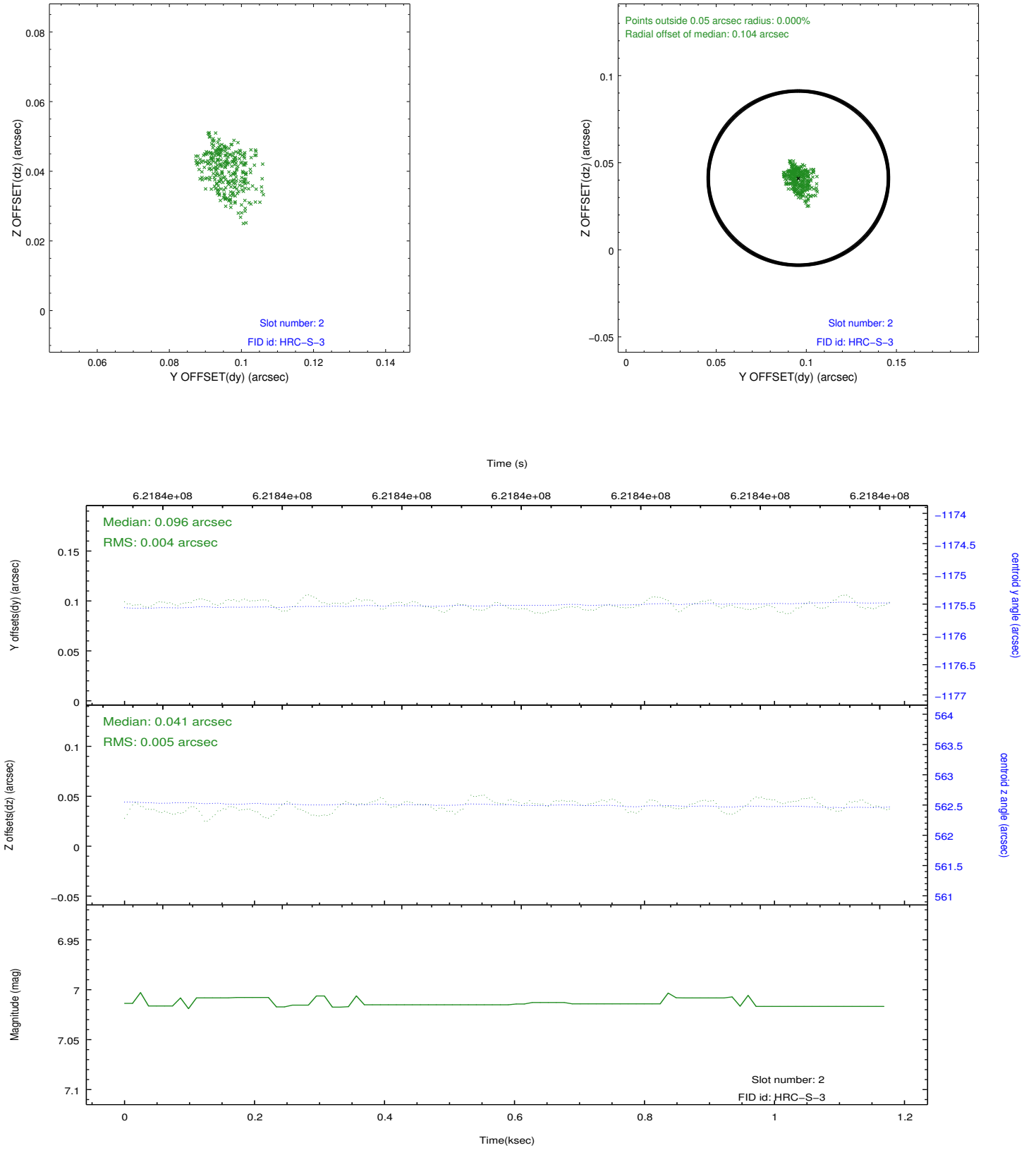
2.5.1 Slot 0



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	1.1759313188791

A.2 Comments