

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19799 - L2 Version 1
Chandra X-Ray Center

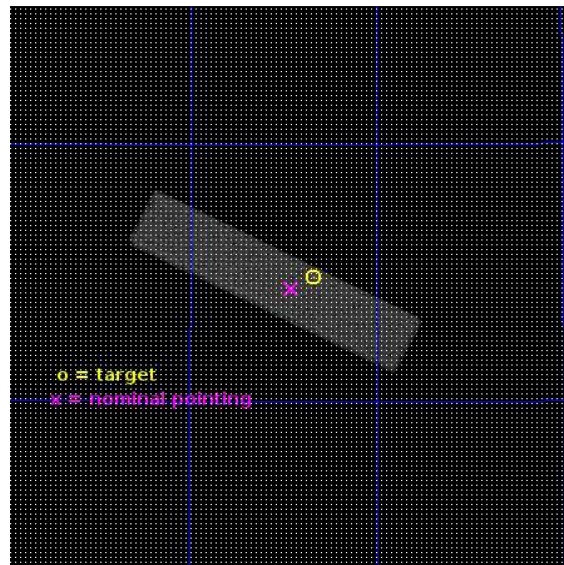
L2 Processing Date : Sep 15 2017

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

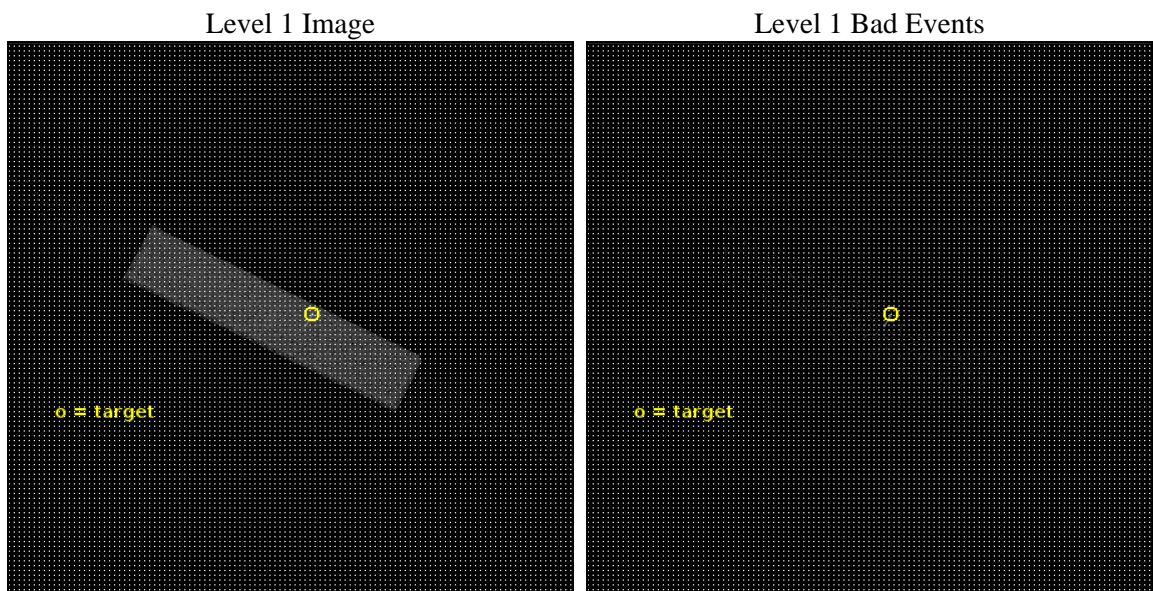
seq_num	291316	Sequence number
obs_id	19799	Observation id
title	AO-18 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.22798043707	Nominal RA [deg]
dec_nom	45.719716000162	Nominal Dec [deg]
roll_nom	206.79109568878	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1171.8313186169	[s]
livetime	1162.4816994267	Ontime multiplied by DTCOR
l2events	73537	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	1171.8313186169	[s]
caldsver	4.7.6	 	l1events	111405	Number of level 1 events
date	2017-09-15T14:45:27	Date and time of file creation			
revision	1	Processing version of data			

2.1.3 Events

Level 1 Events

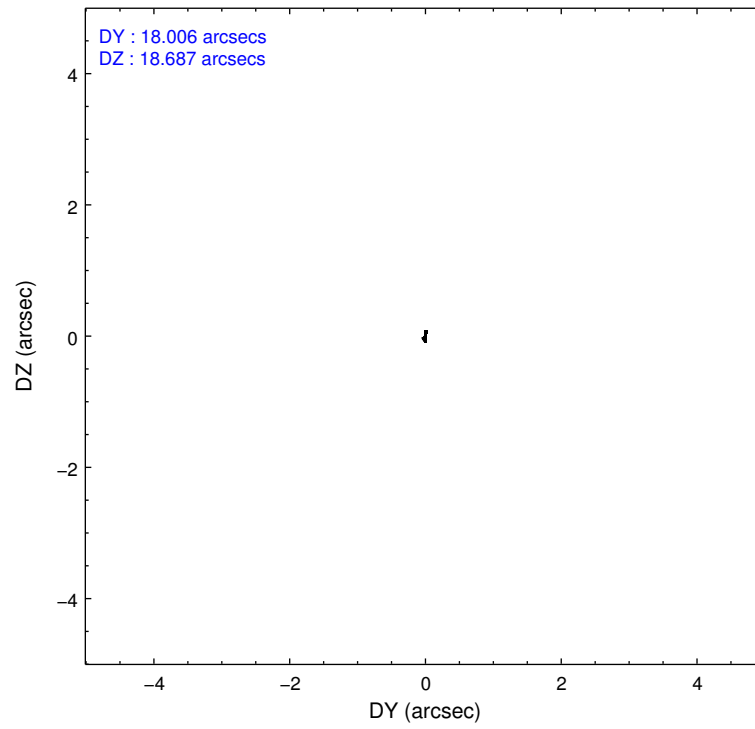
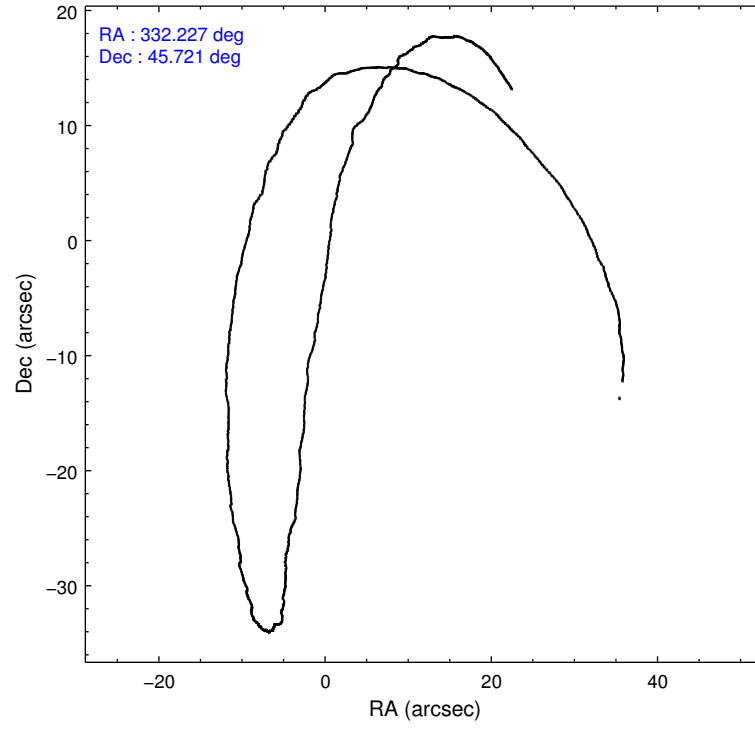
	segment 1	segment 2	segment 3
level 1 events	967	109521	917
rejected events	967	24017	917
rejected %	100%	21%	100%

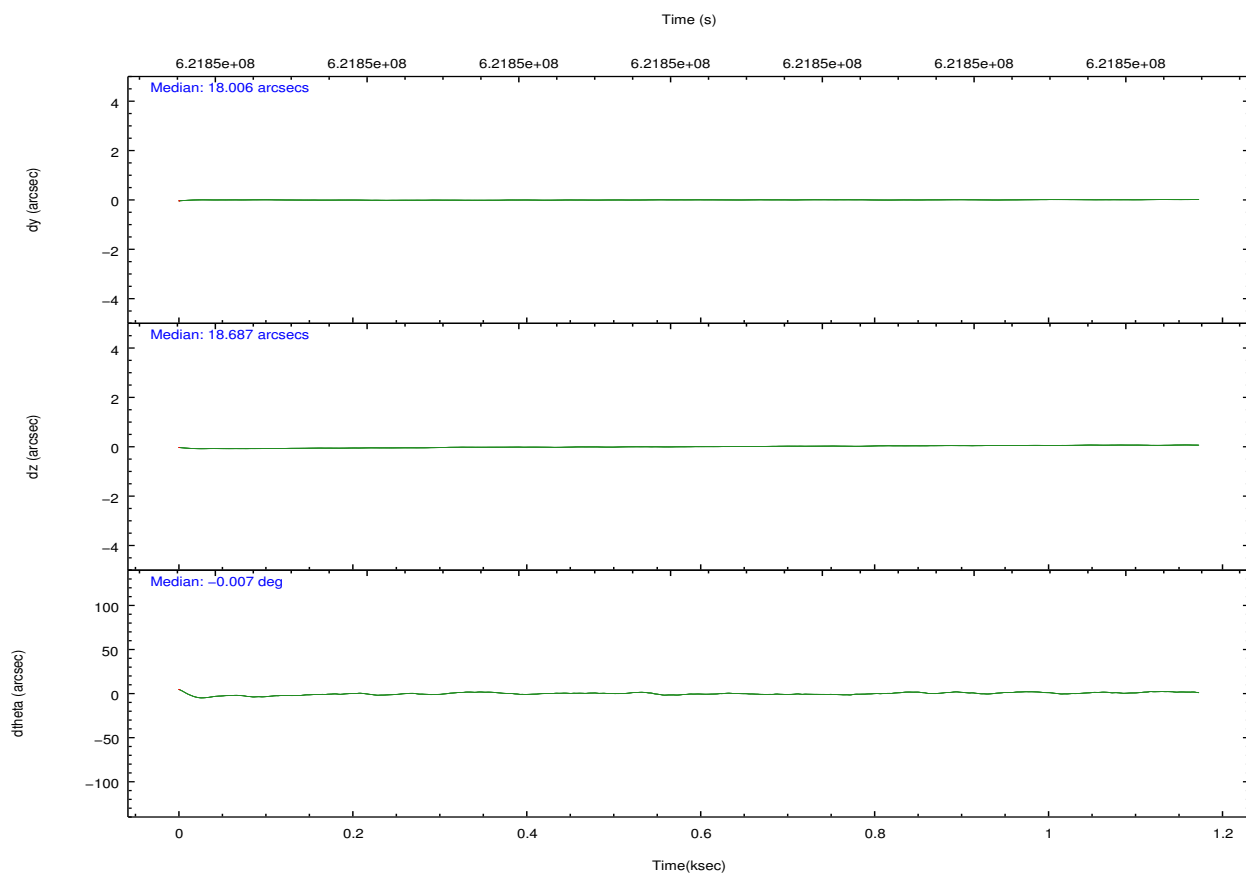
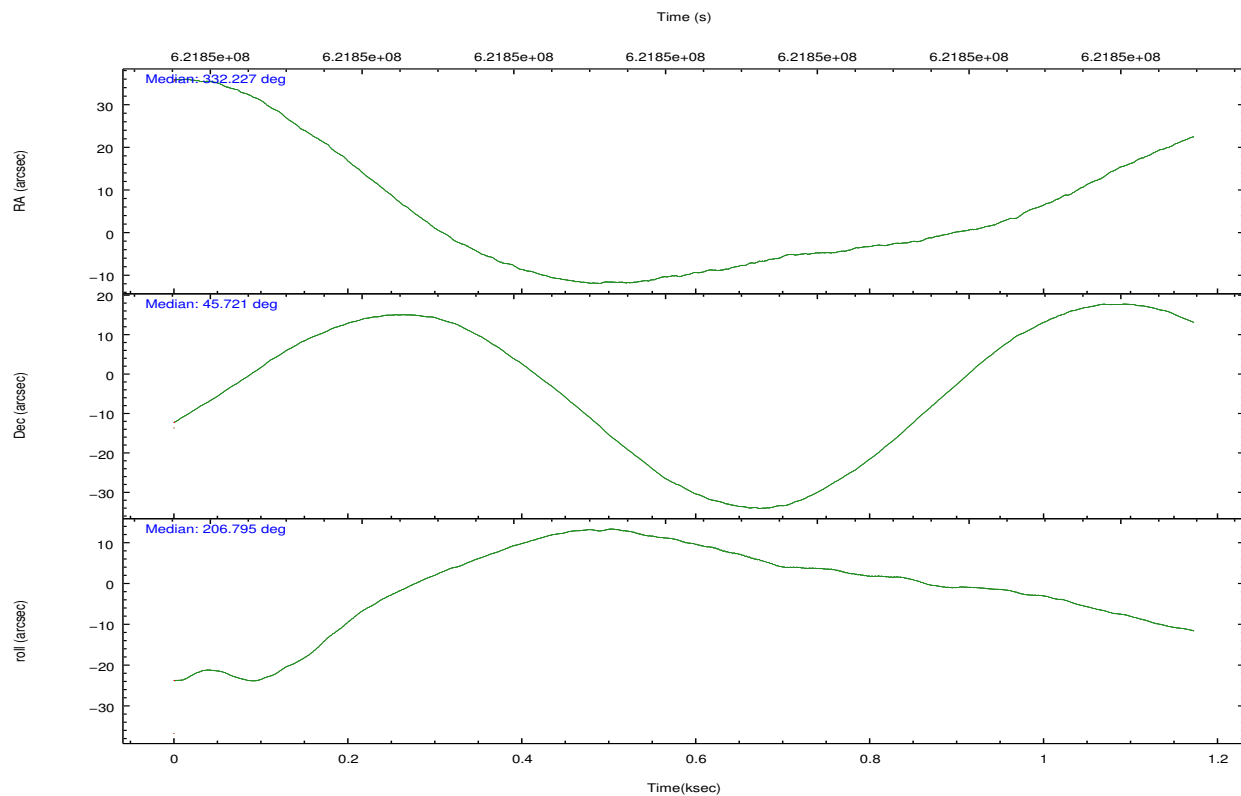
2.2 Compared Parameters

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	332.248957	332.2279804370675
[deg] Pointing Dec	45.743708	45.7197160001622
[deg] Pointing Roll	206.708668	206.791095688783
[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)	621849412.184000	621849036.75634
Observation start date	2017-09-15T07:55:43	2017-09-15T07:50:36
[s] Observation end time (MET)	621850412.184000	621850546.58143
Observation end date	2017-09-15T08:12:23	2017-09-15T08:15:46

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

2.3 Aspect



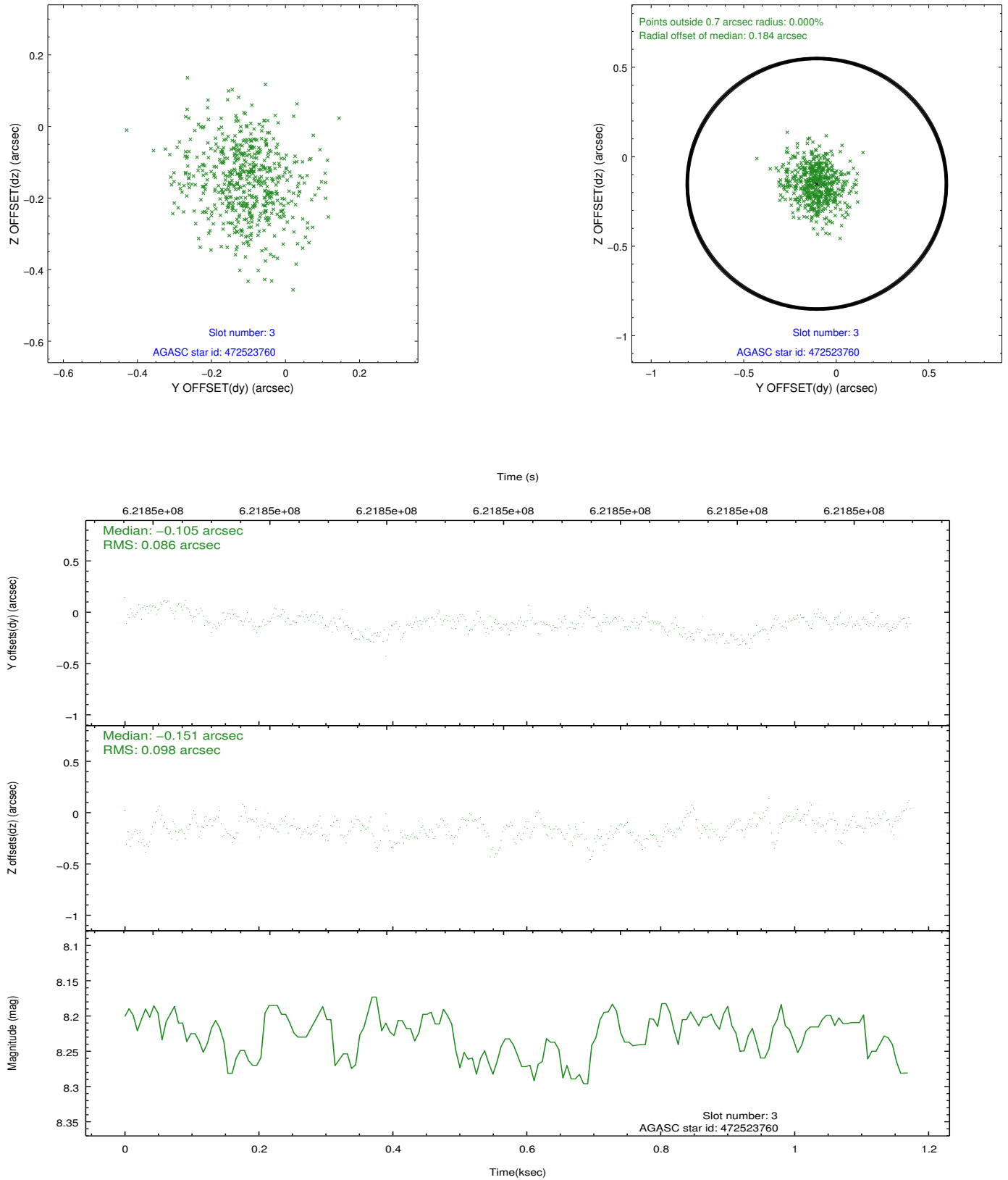


Slot Statistics

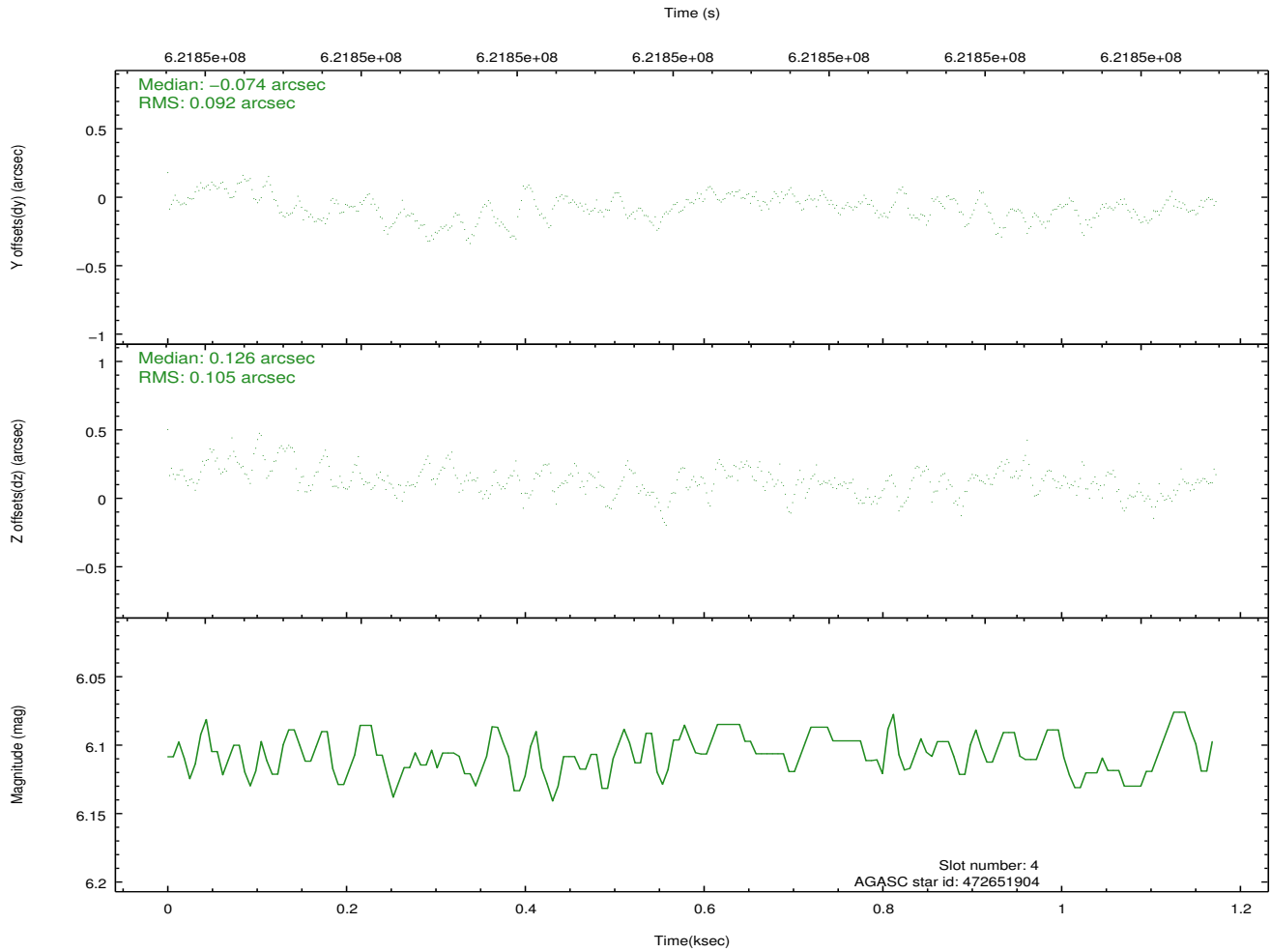
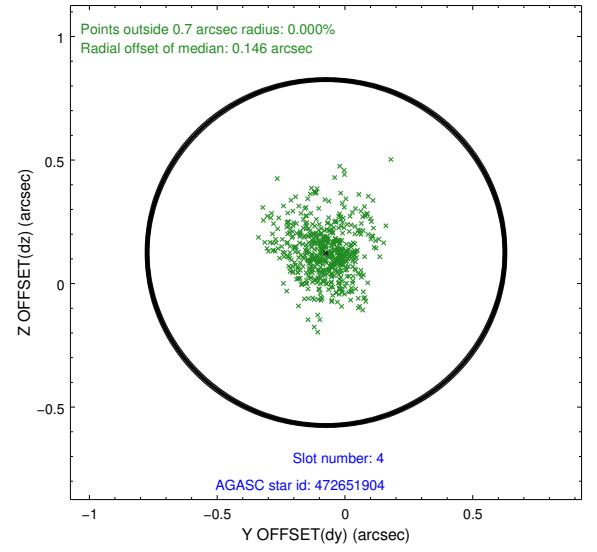
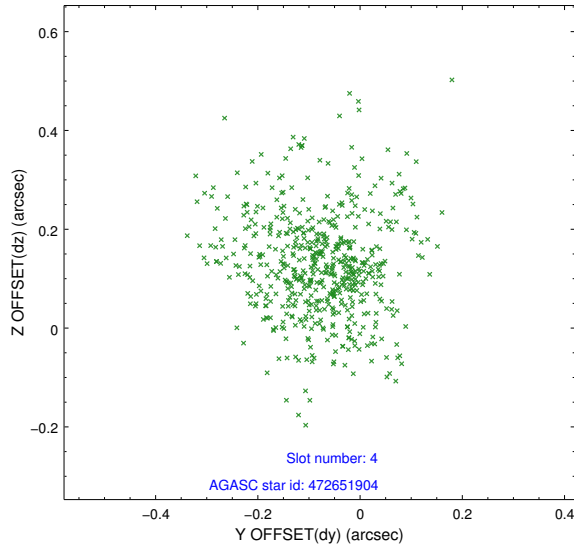
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-1	7.03	286	-0.207	-0.219	0.005	0.009	0.000000	0.000000	-1172.72	-467.79
1	FID		HRC-S-2	6.99	287	0.205	-0.105	0.011	0.037	0.000000	0.000000	1223.26	-461.80
2	FID		HRC-S-4	7.00	287	0.405	0.020	0.011	0.036	0.000000	0.000000	1230.32	563.07
3	GUIDE	used	472523760	8.22	572	-0.105	-0.151	0.138	0.226	331.645363	45.403260	1912.91	406.90
4	GUIDE	used	472651904	6.11	573	-0.074	0.126	0.149	0.252	332.170077	45.742257	184.67	-81.69
5	GUIDE	used	420754040	9.03	573	-0.492	-0.370	0.199	0.418	331.917939	44.882543	2146.52	2391.26
6	GUIDE	used	472655152	9.41	570	0.200	0.130	0.237	0.420	332.504239	45.862991	-759.58	-89.08
7	GUIDE	used	472665256	8.95	570	0.495	0.237	0.201	0.304	332.808125	46.195041	-1976.55	-826.24

2.4 Star Slots

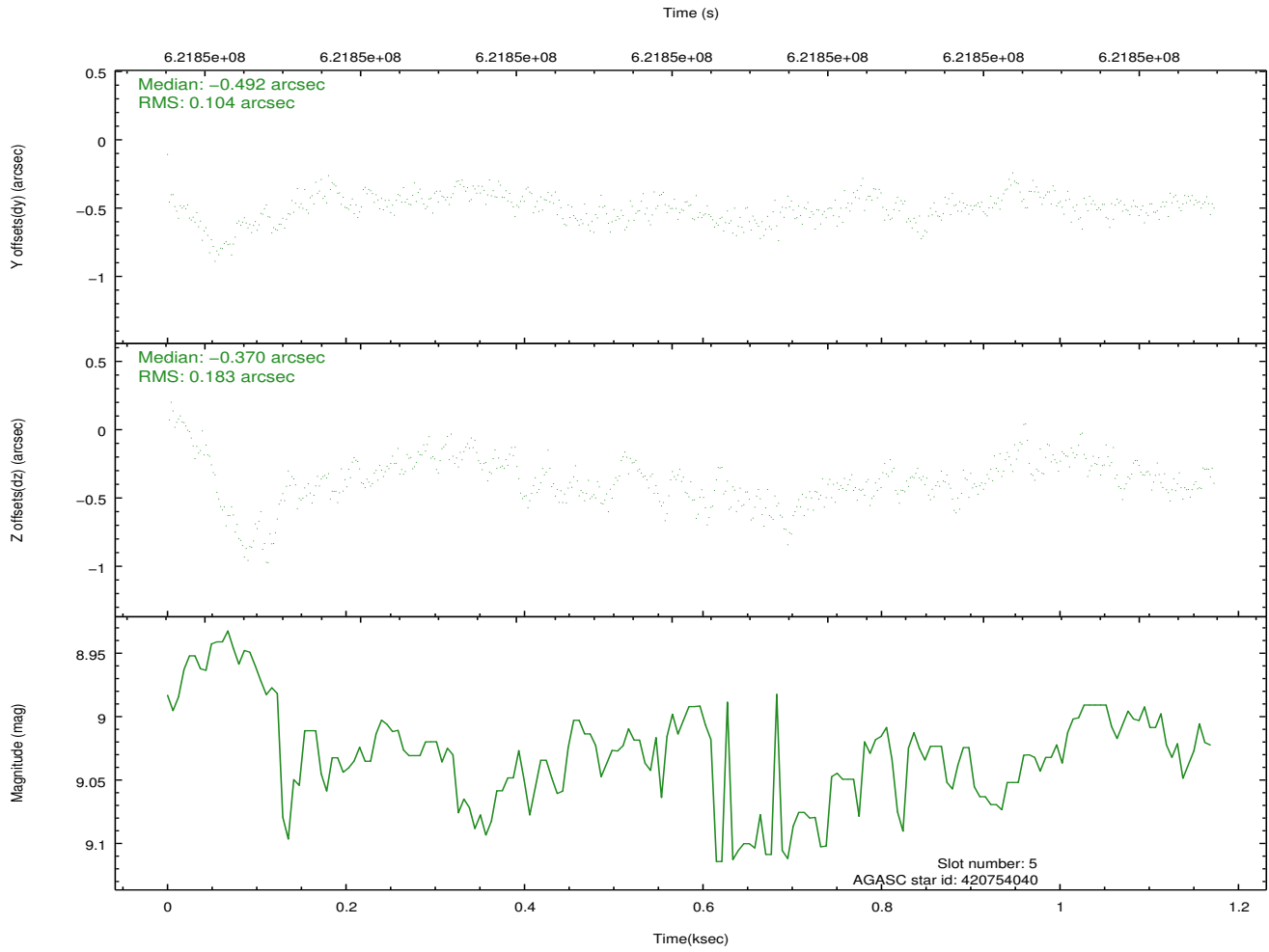
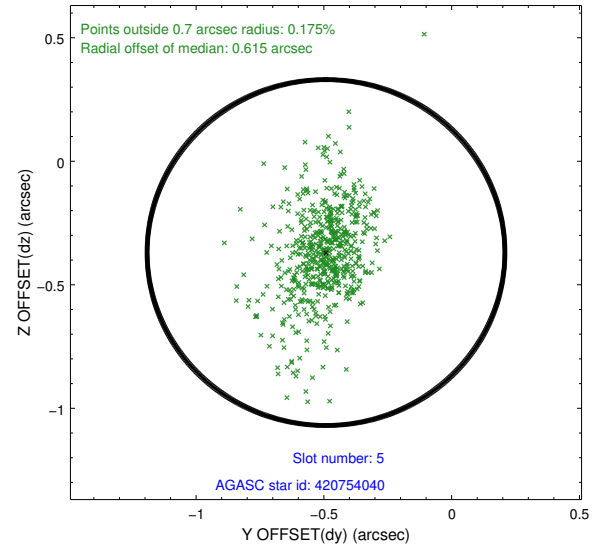
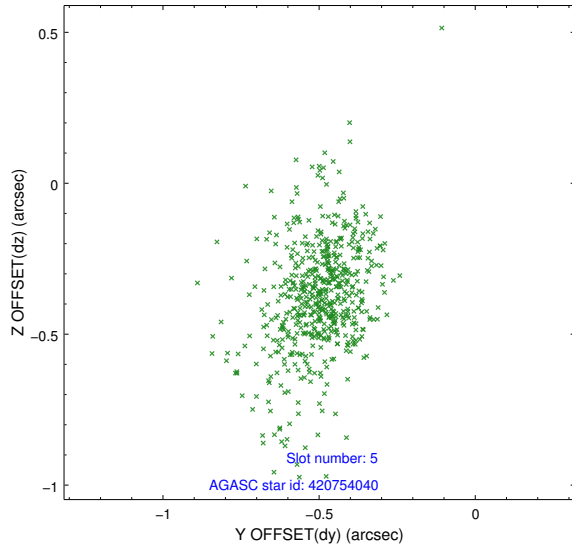
2.4.1 Slot 3



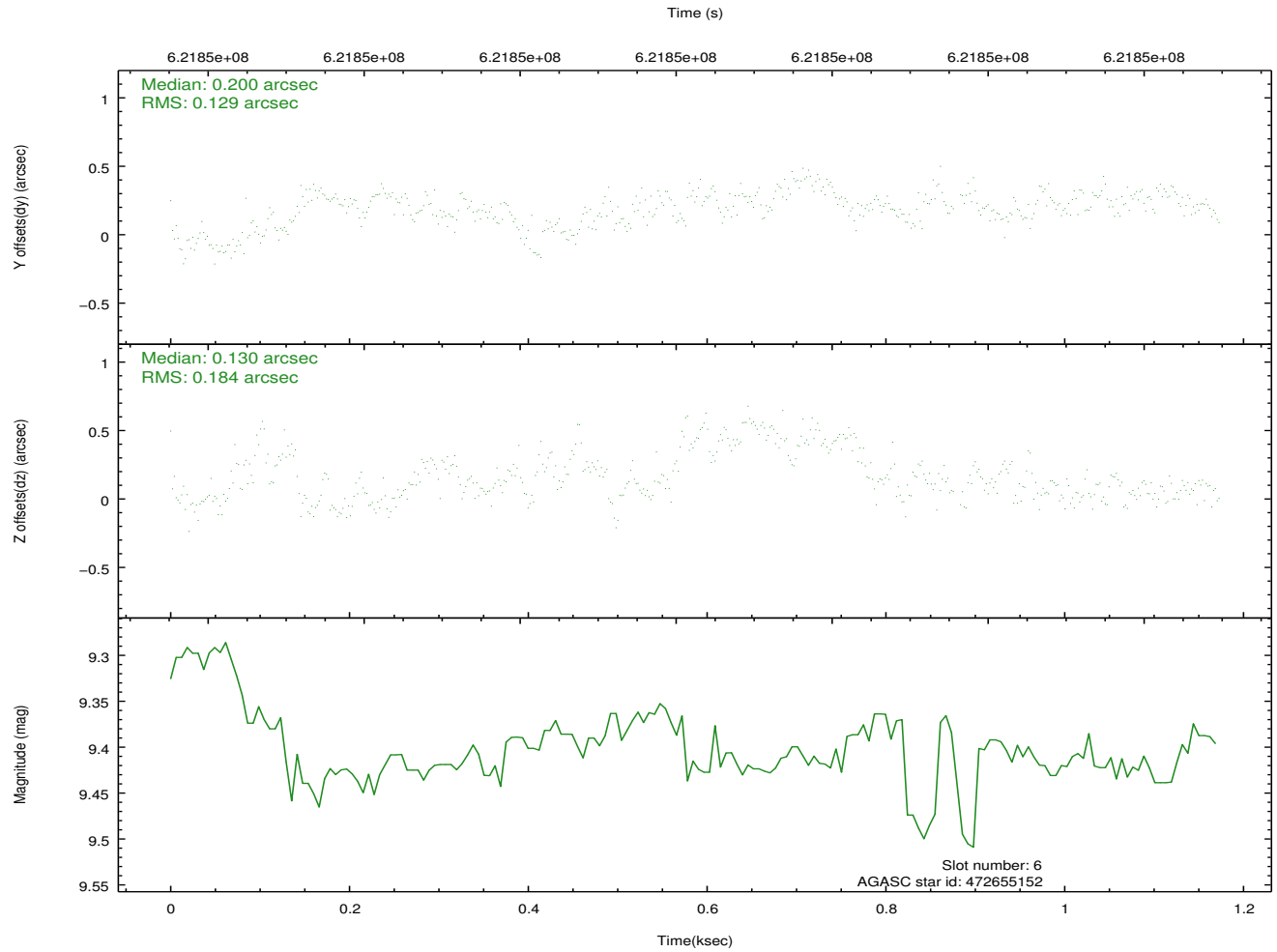
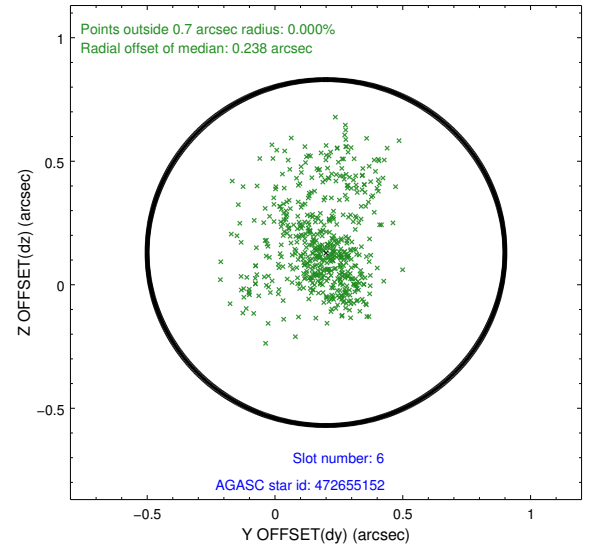
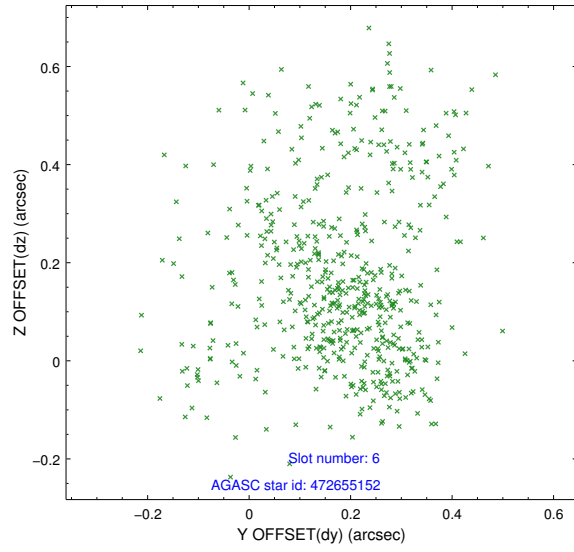
2.4.2 Slot 4



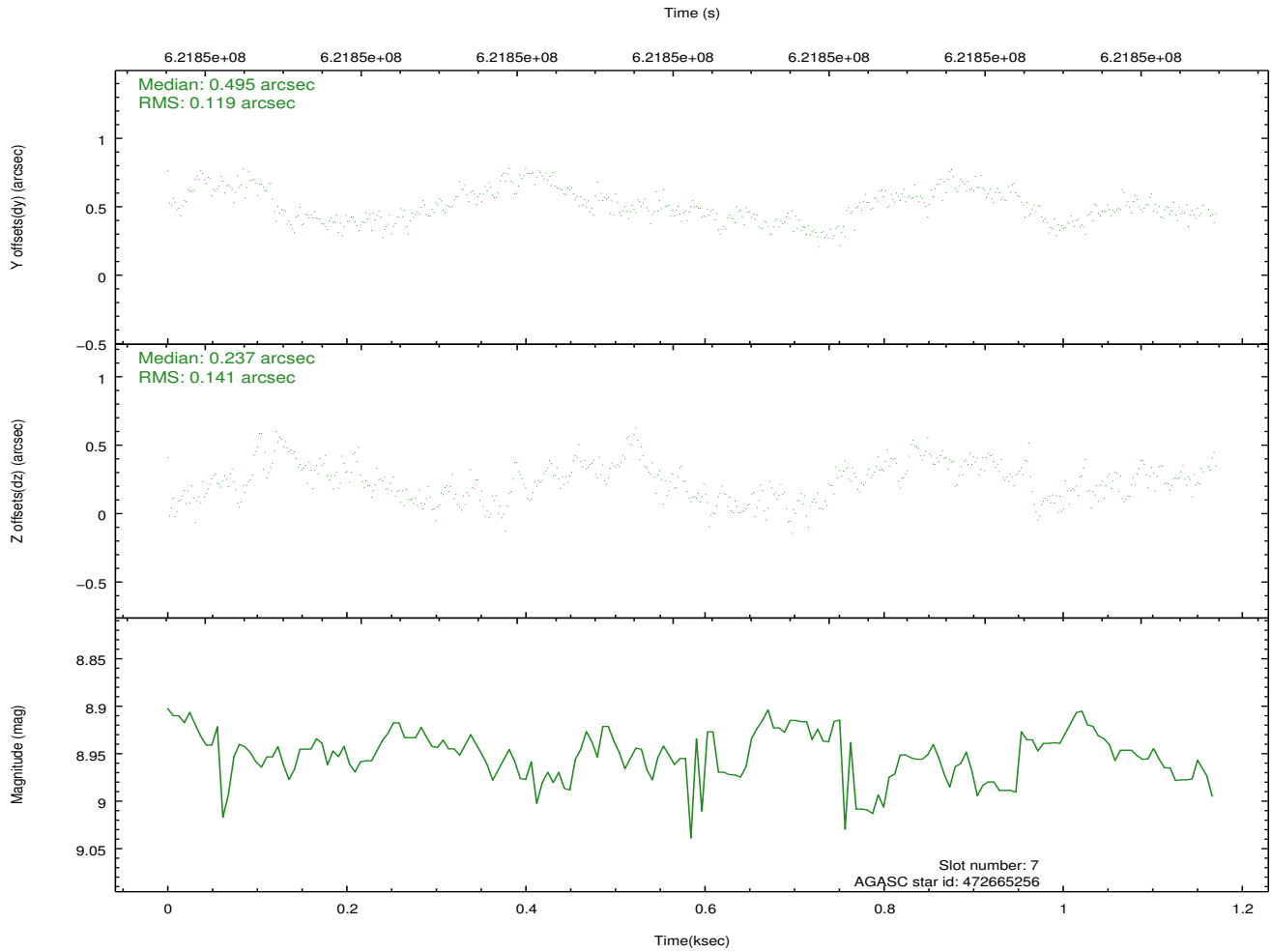
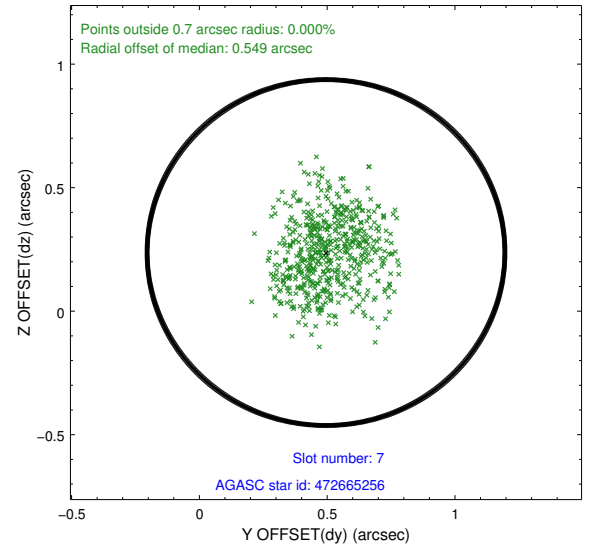
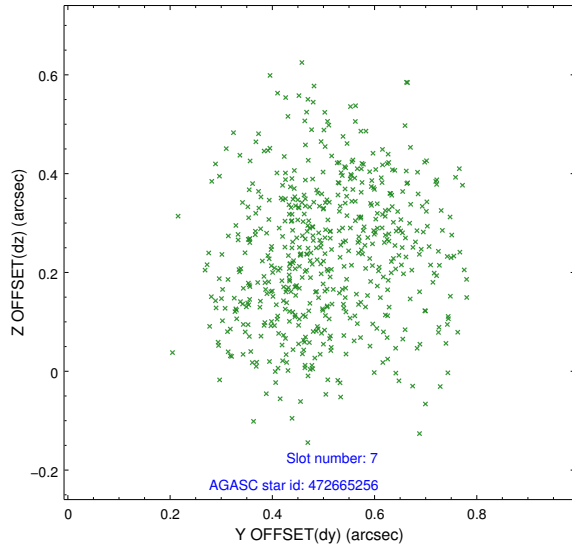
2.4.3 Slot 5



2.4.4 Slot 6

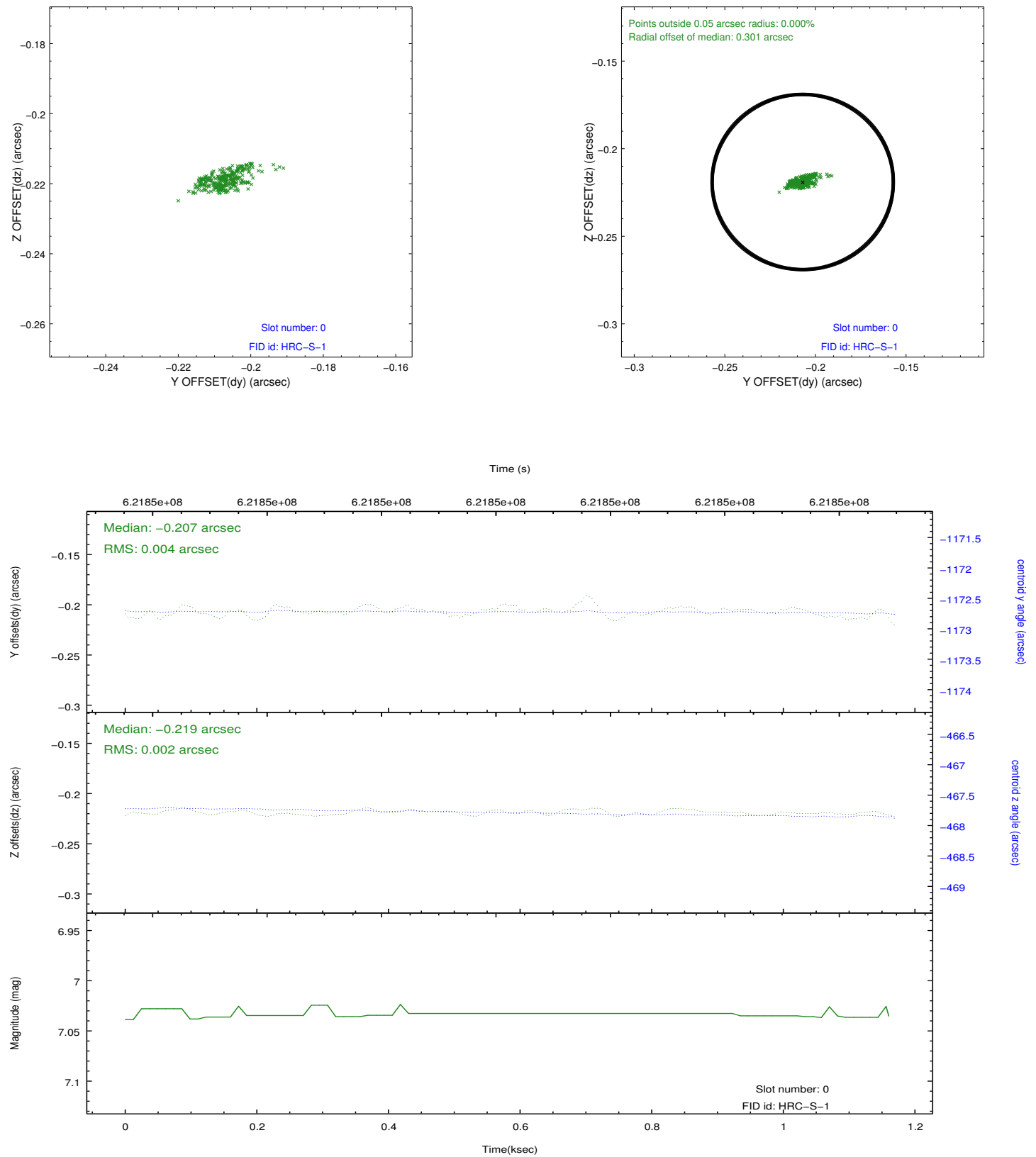


2.4.5 Slot 7

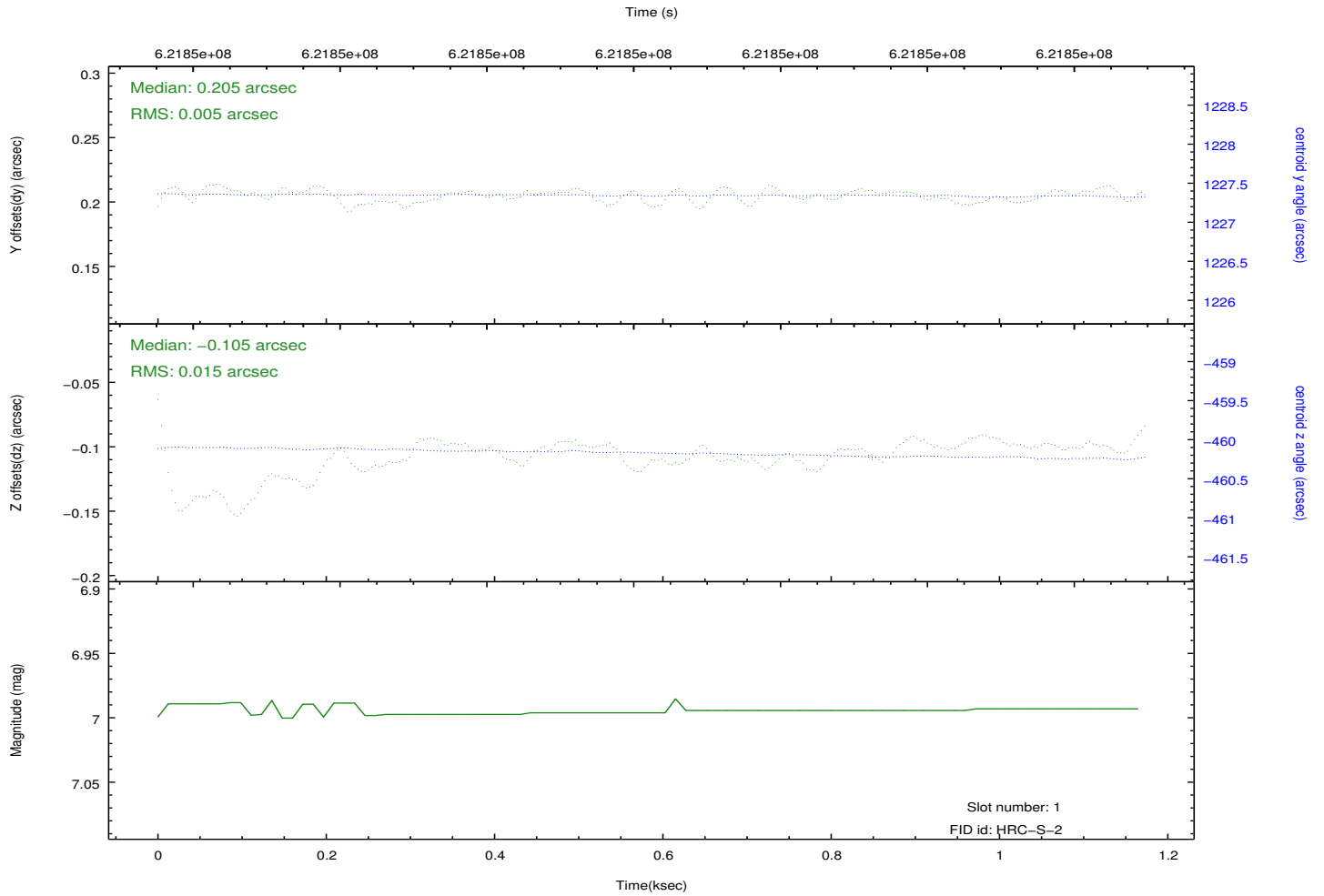
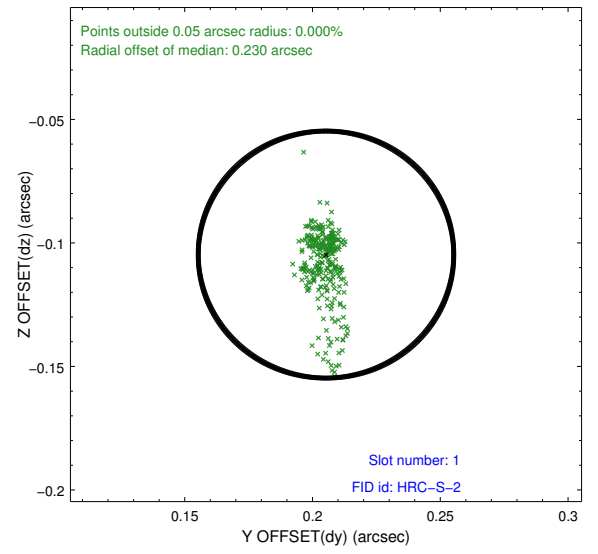
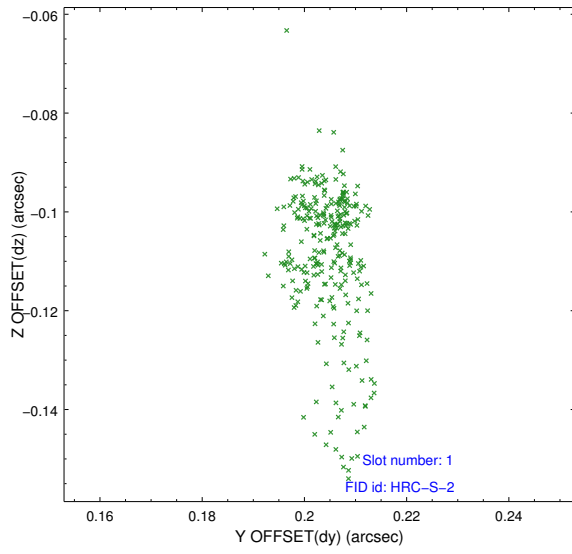


2.5 FID Slots

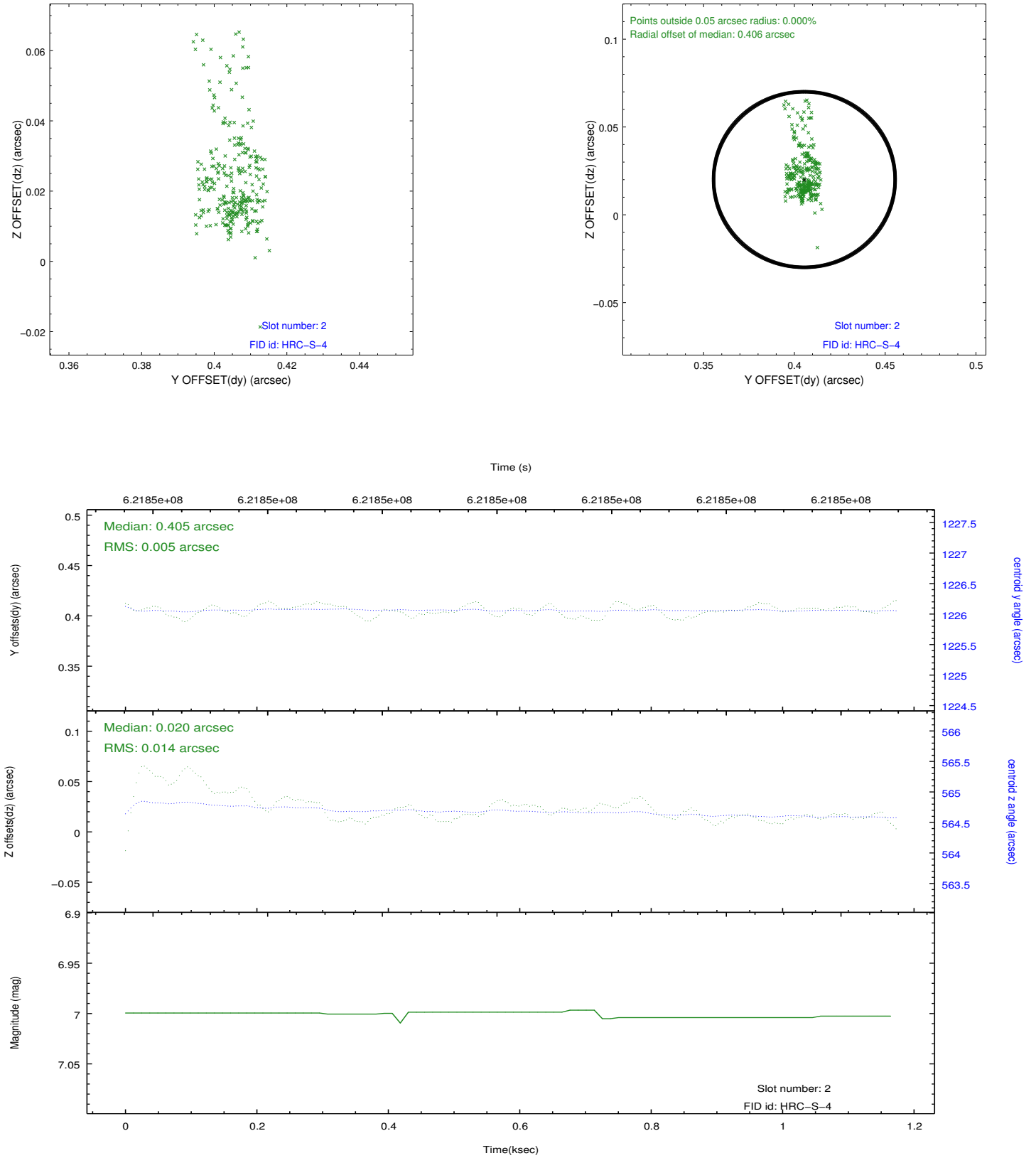
2.5.1 Slot 0



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	1.1718313186169

A.2 Comments