

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19808 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : Sep 16 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

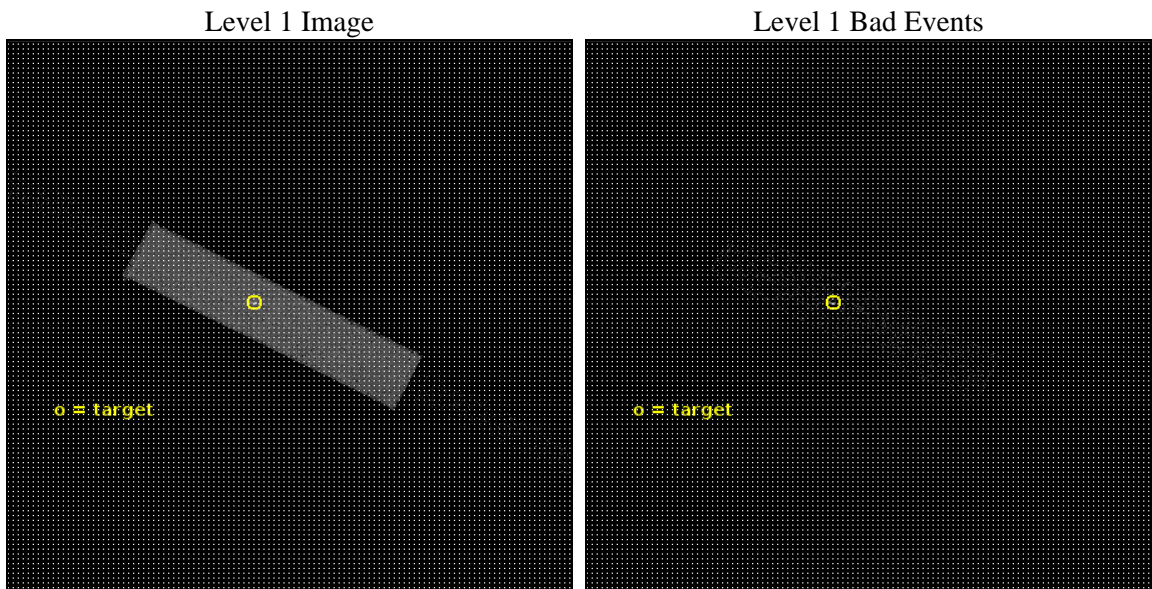
seq_num	291325	Sequence number
obs_id	19808	Observation id
title	AO-18 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.07897494241	Nominal RA [deg]
dec_nom	45.701864268288	Nominal Dec [deg]
roll_nom	207.17350932247	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1171.575068593	[s]
livetime	1161.3627849106	Ontime multiplied by DTCOR
l2events	81207	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	1171.575068593	[s]
caldbver	4.7.6	 	l1events	118918	Number of level 1 events
date	2017-09-16T05:02:53	Date and time of file creation			
revision	1	Processing version of data			

2.1.3 Events

Level 1 Events

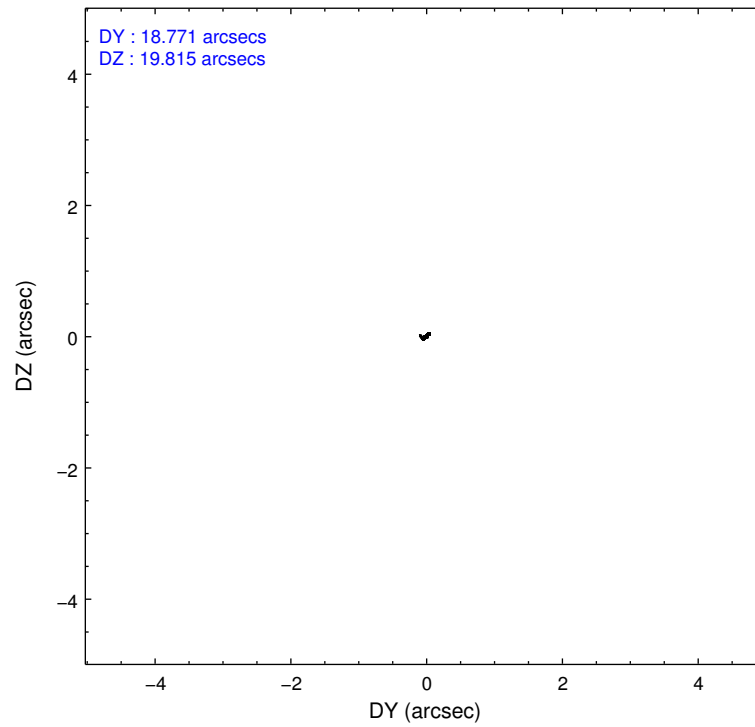
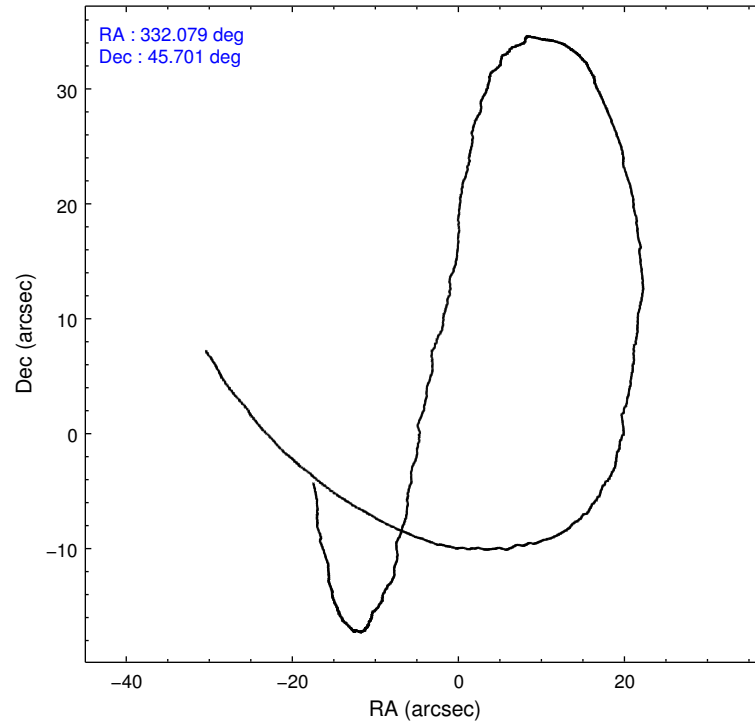
	segment 1	segment 2	segment 3
level 1 events	1011	116971	936
rejected events	1011	23614	936
rejected %	100%	20%	100%

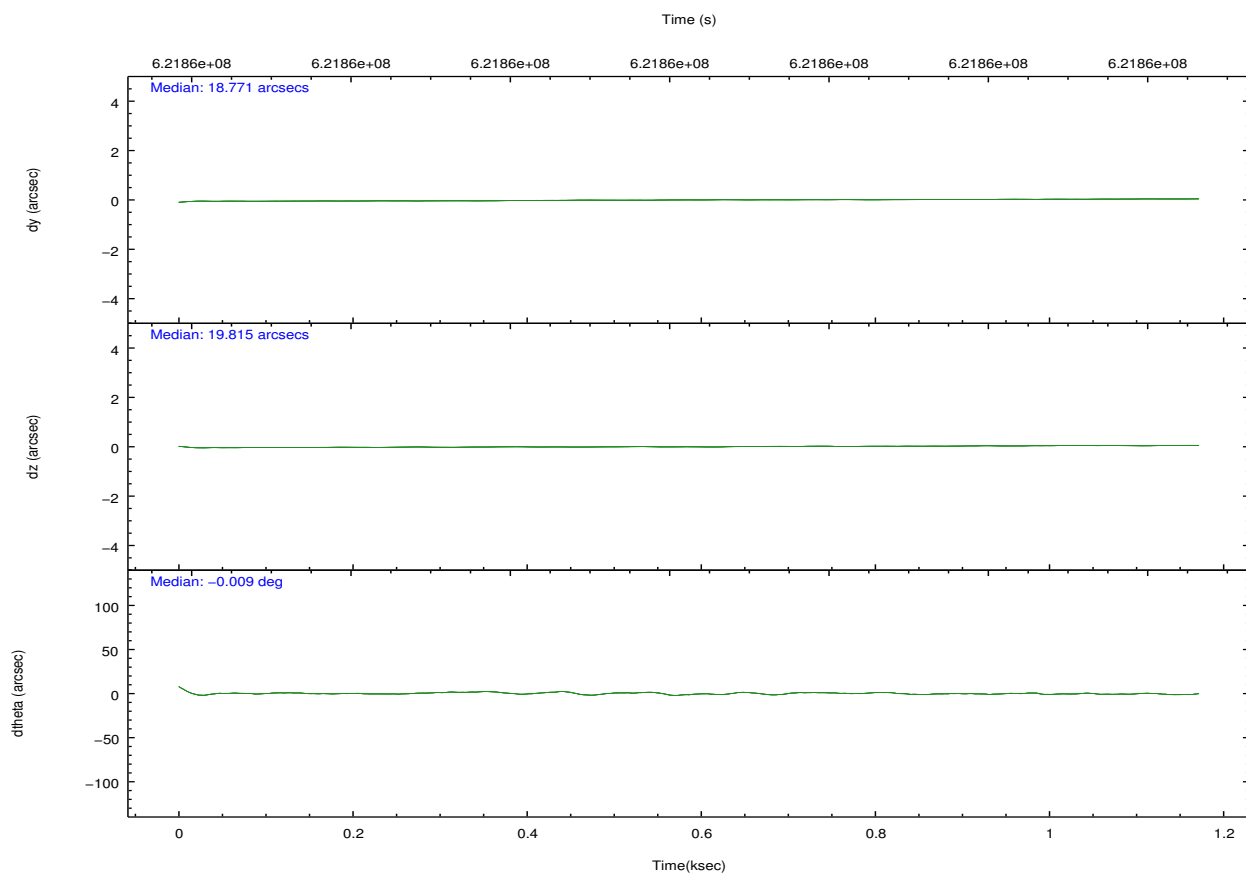
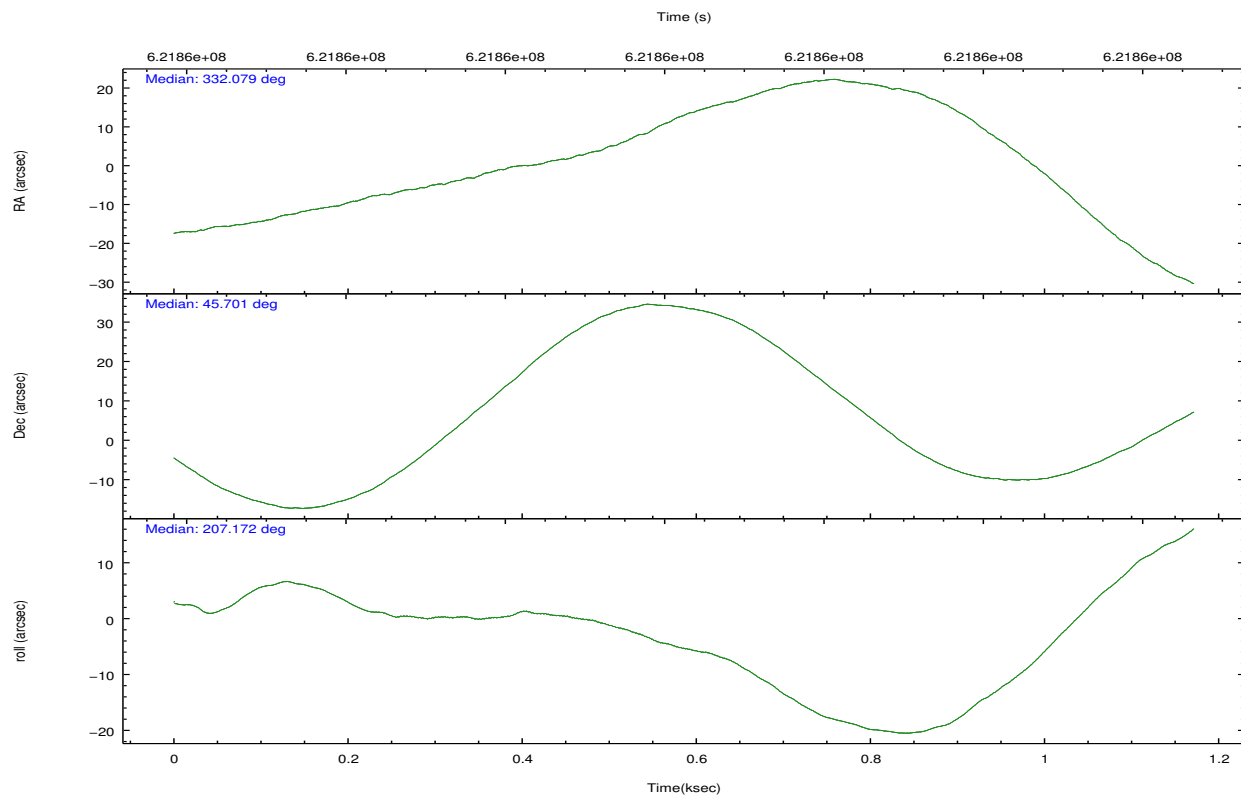
2.2 Compared Parameters

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	332.099435	332.0789749424113
[deg] Pointing Dec	45.728034	45.70186426828838
[deg] Pointing Roll	207.091517	207.1735093224678
[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)	621863002.184000	621862626.20714
Observation start date	2017-09-15T11:42:13	2017-09-15T11:37:06
[s] Observation end time (MET)	621864002.184000	621864136.5447299
Observation end date	2017-09-15T11:58:53	2017-09-15T12:02:16

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

2.3 Aspect



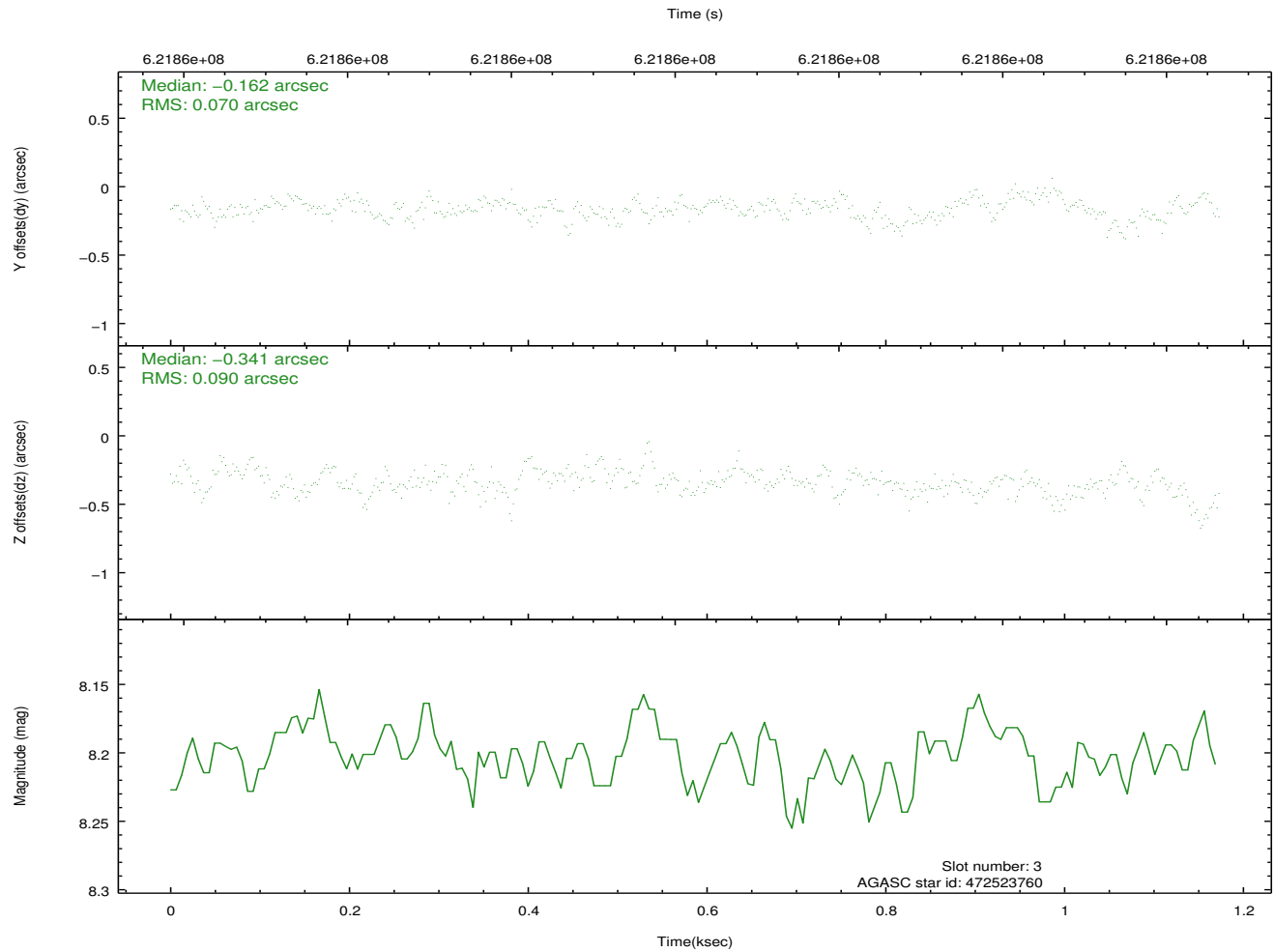
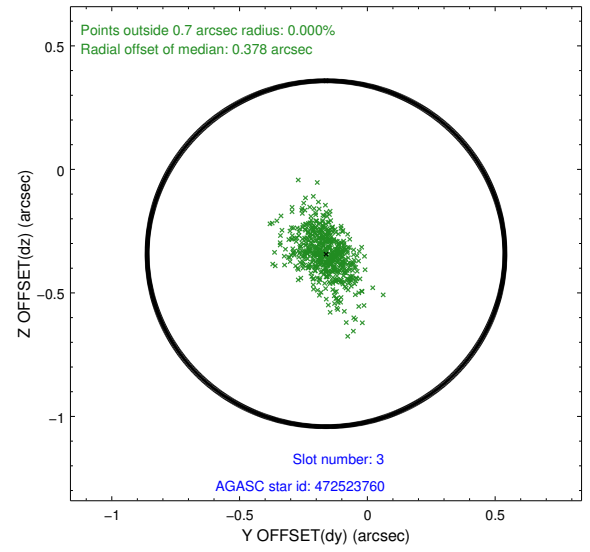
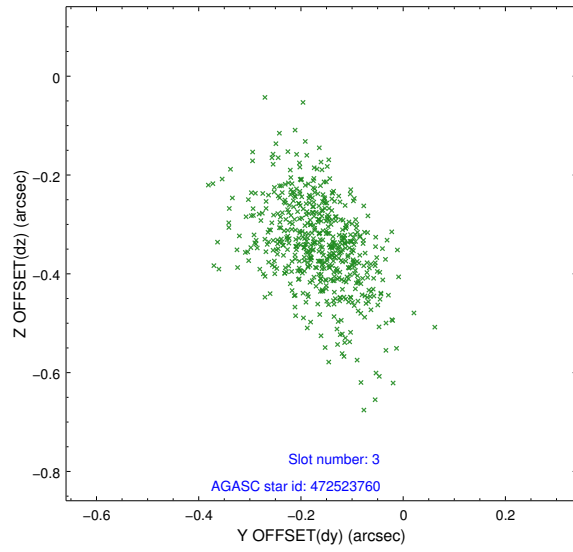


Slot Statistics

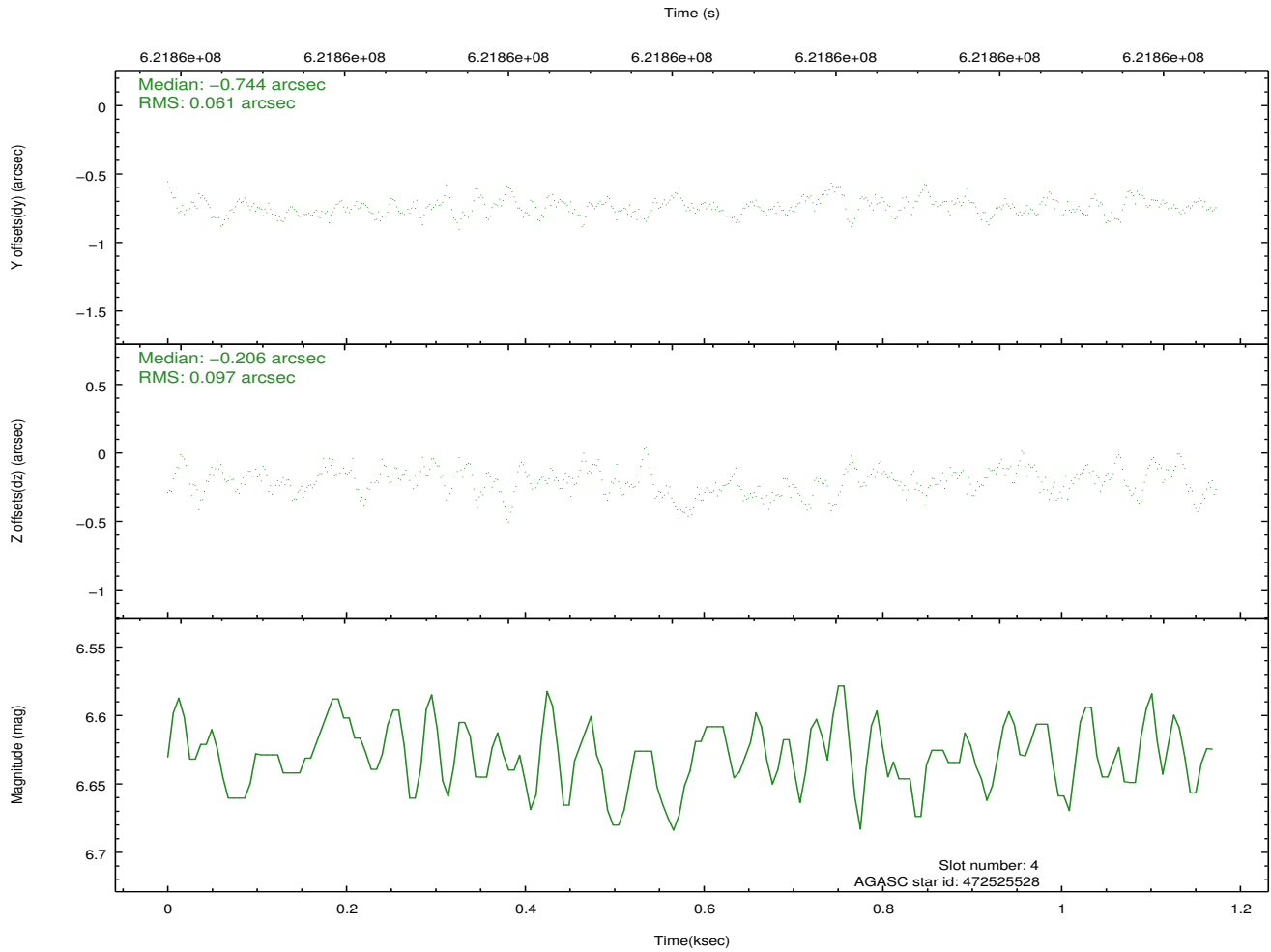
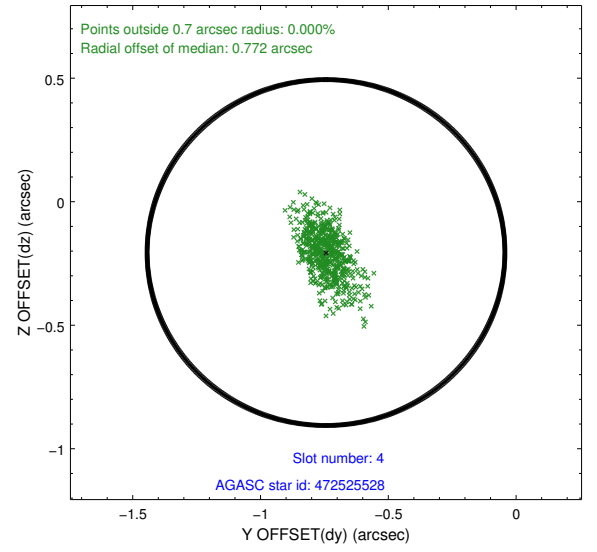
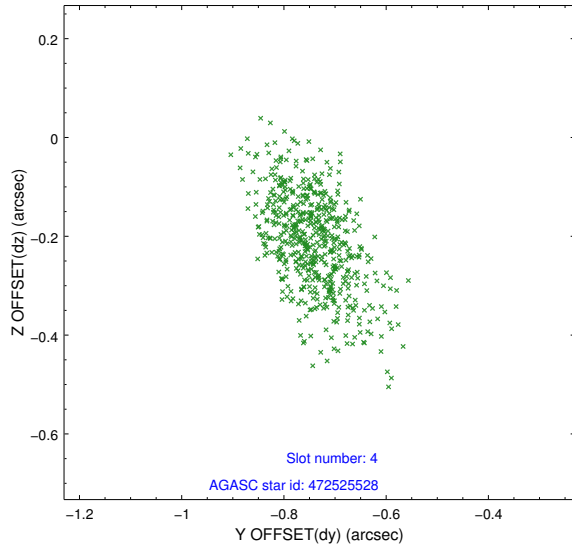
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-1	7.05	287	-0.199	-0.217	0.005	0.009	0.000000	0.000000	-1173.48	-468.99
1	FID		HRC-S-2	7.01	286	0.201	-0.180	0.008	0.021	0.000000	0.000000	1222.48	-463.02
2	FID		HRC-S-4	7.02	286	0.402	0.094	0.007	0.018	0.000000	0.000000	1229.54	562.00
3	GUIDE	used	472523760	8.20	573	-0.162	-0.341	0.114	0.208	331.645363	45.403260	1551.75	511.32
4	GUIDE	used	472525528	6.63	573	-0.744	-0.206	0.114	0.213	331.551102	45.248694	2021.89	896.18
5	GUIDE	used	472533912	9.11	573	0.333	0.343	0.172	0.298	331.791136	46.368695	-366.32	-2405.26
6	GUIDE	used	472655152	9.37	573	0.199	-0.221	0.219	0.366	332.504239	45.862991	-1127.44	19.35
7	GUIDE	used	472665256	8.96	572	0.381	0.430	0.143	0.232	332.808125	46.195041	-2344.05	-702.90

2.4 Star Slots

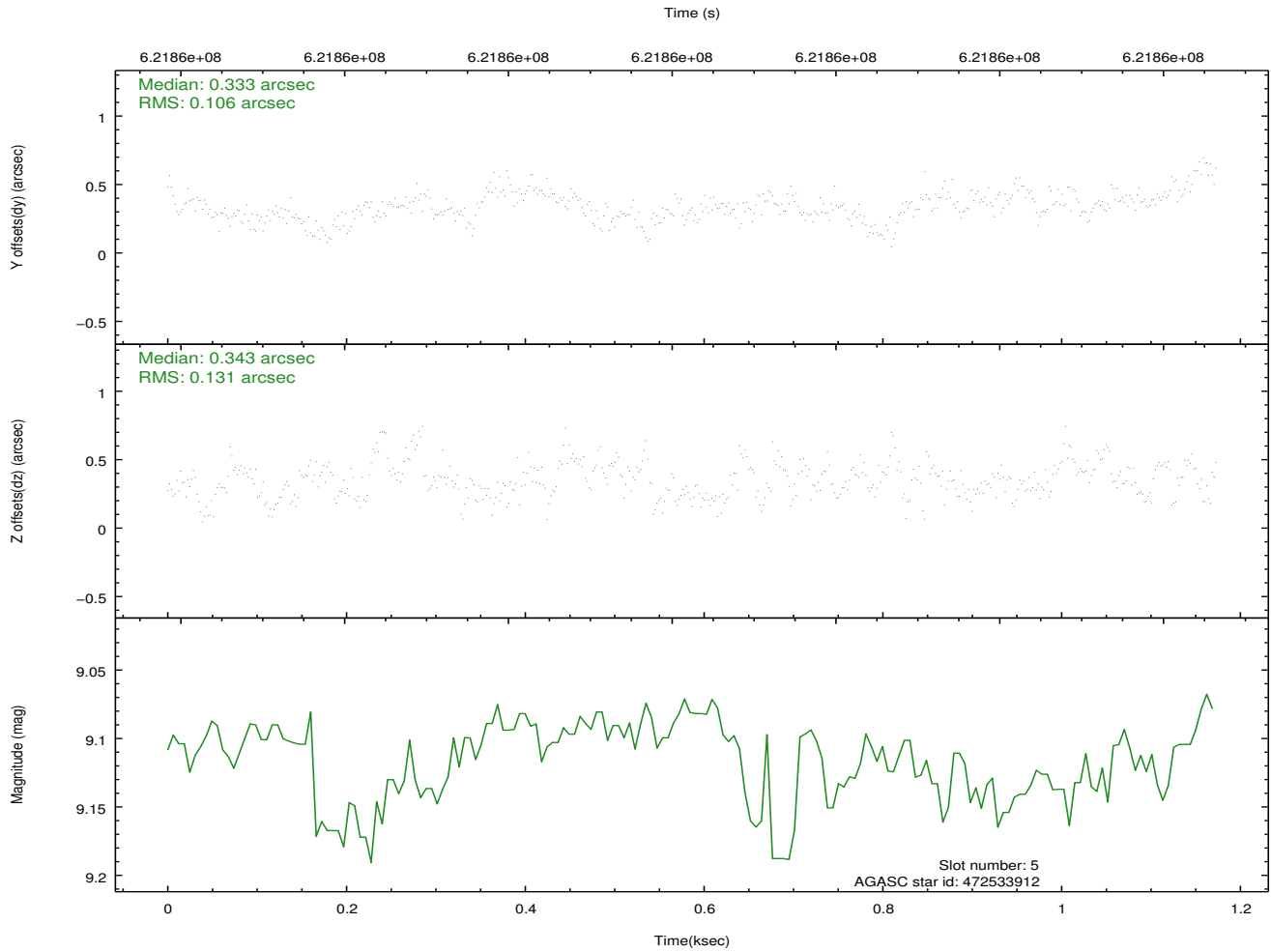
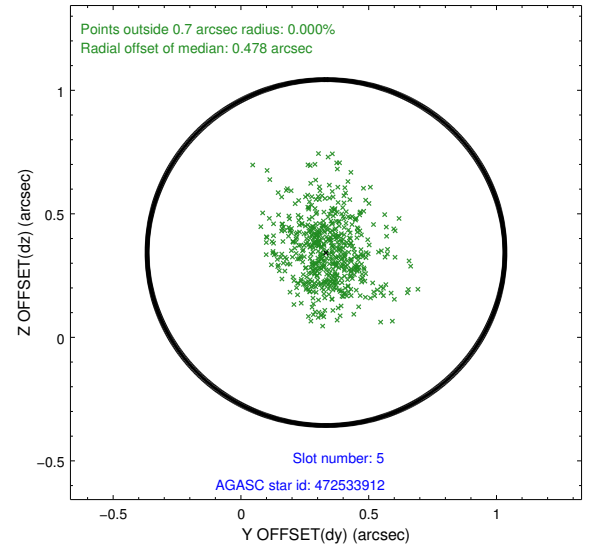
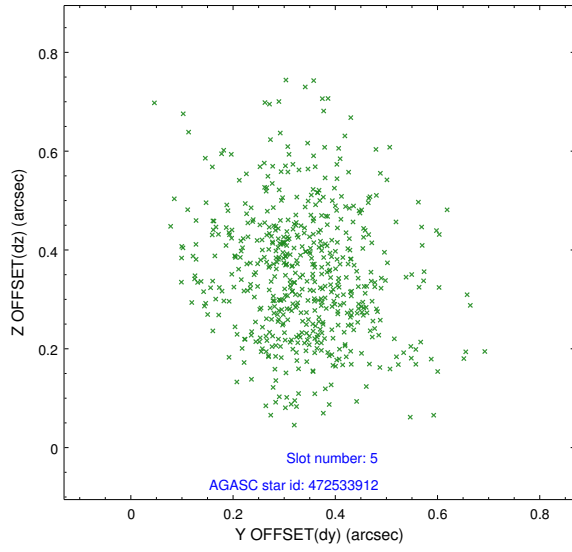
2.4.1 Slot 3



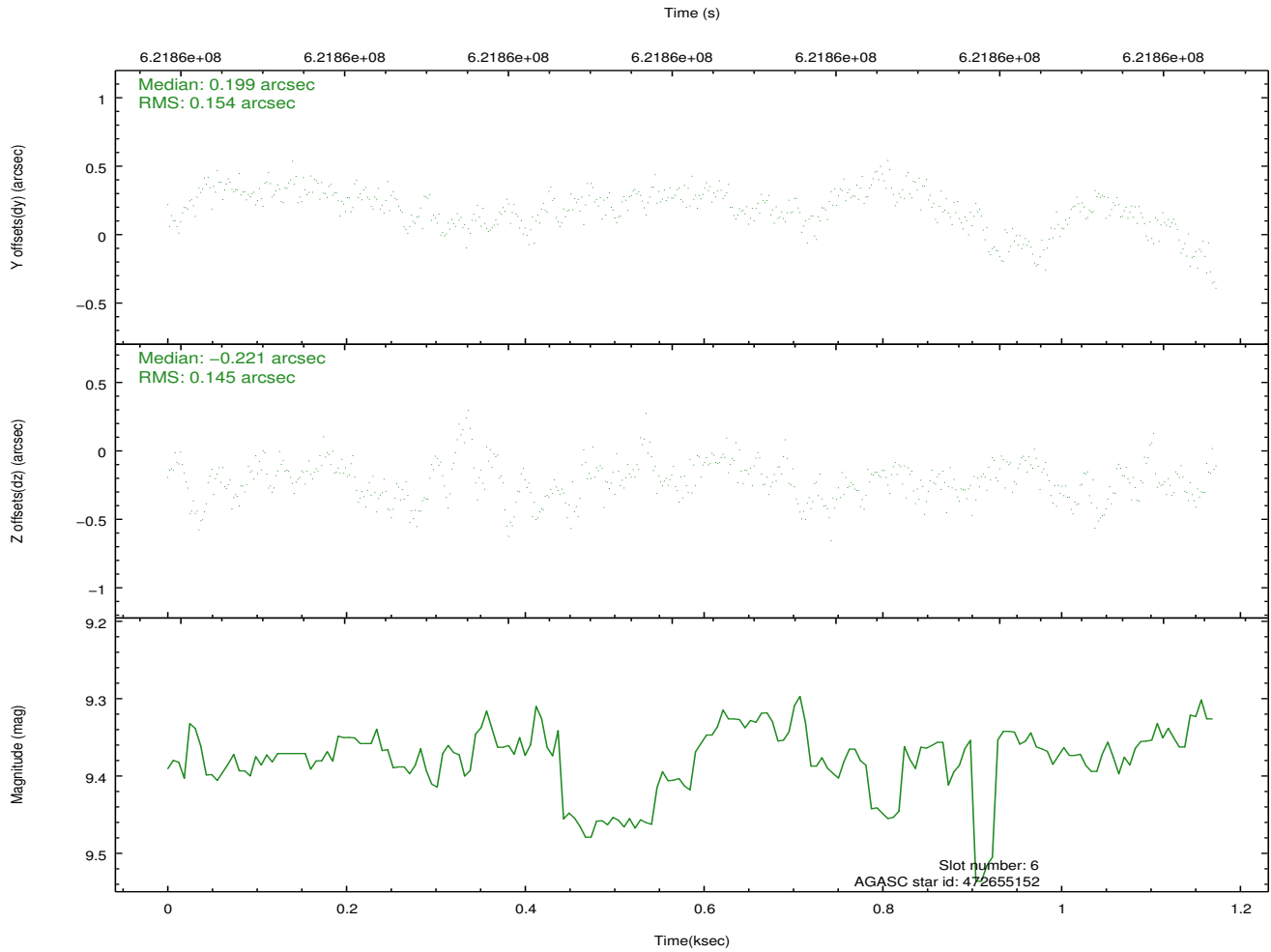
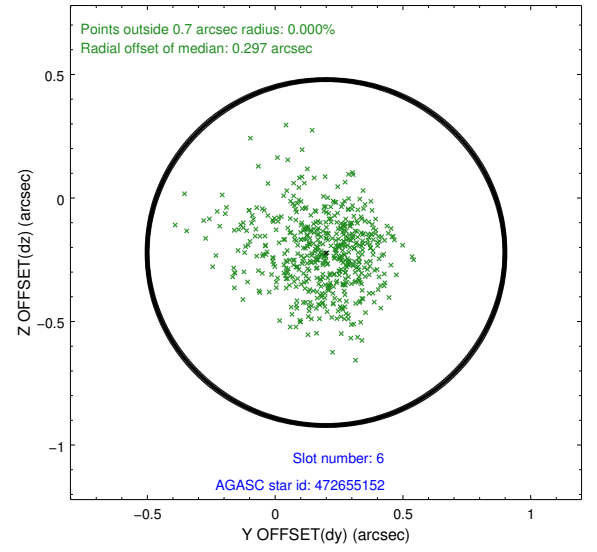
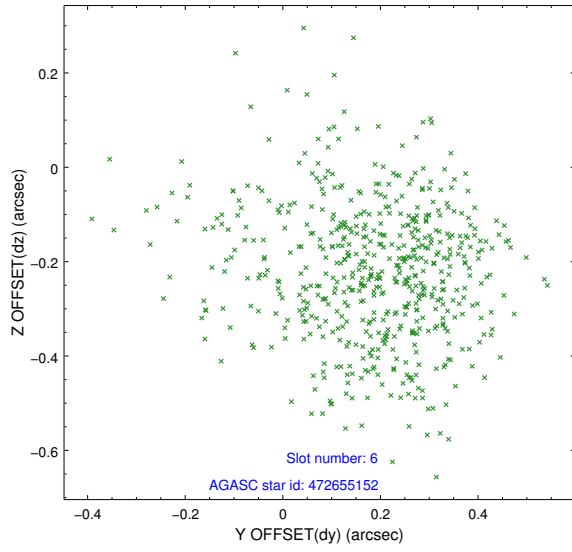
2.4.2 Slot 4



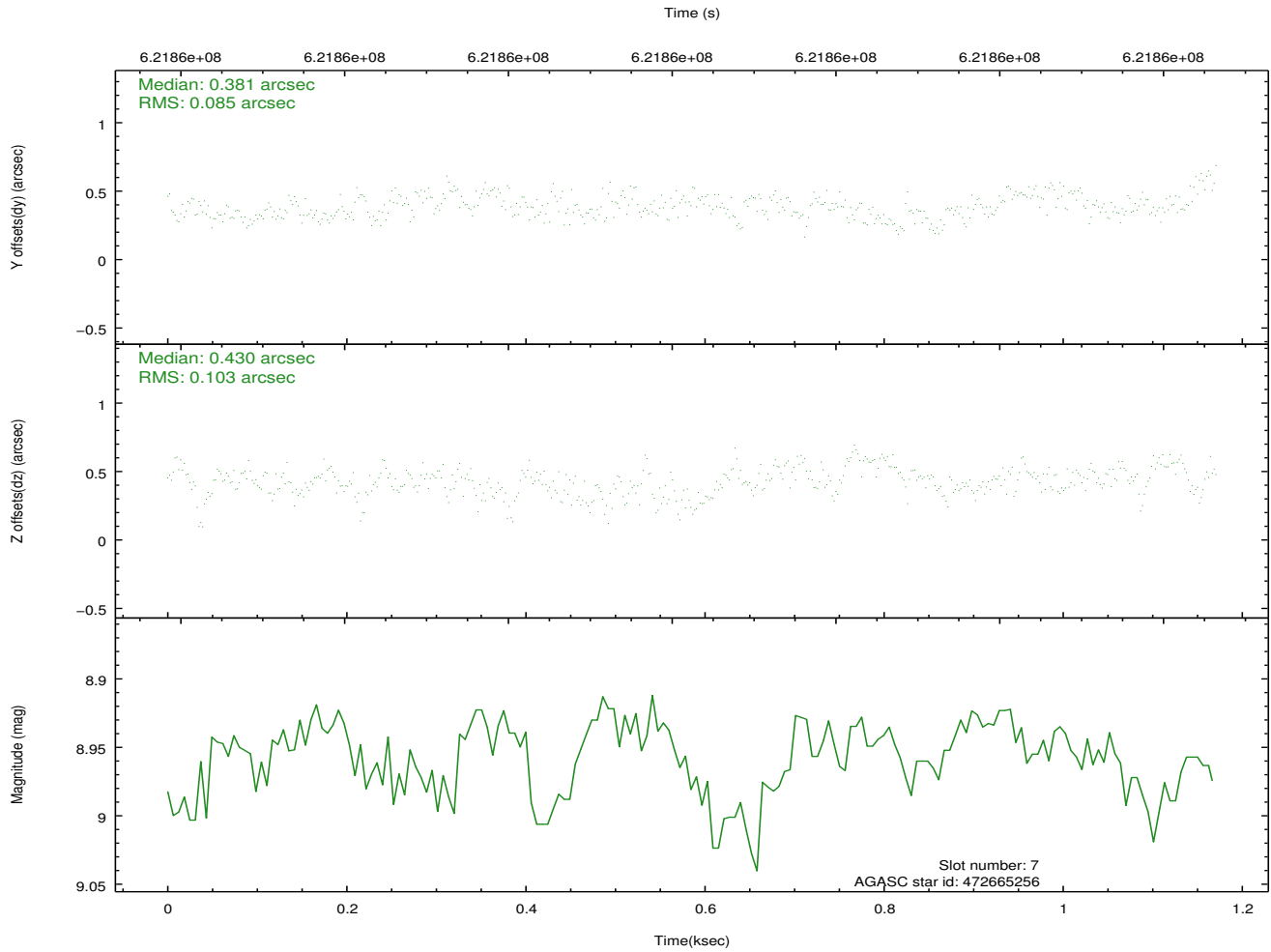
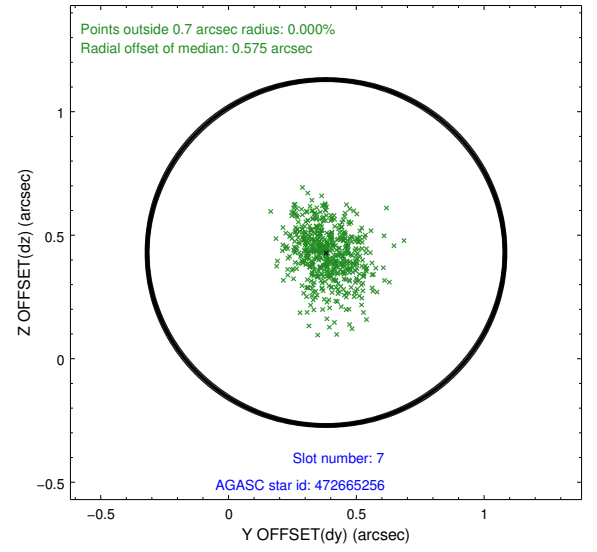
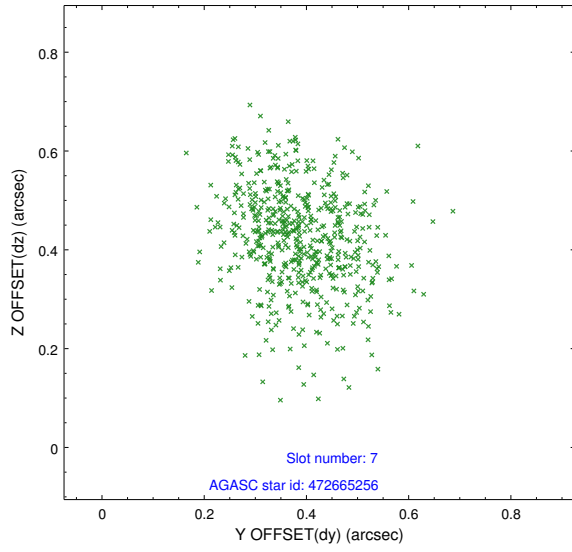
2.4.3 Slot 5



2.4.4 Slot 6

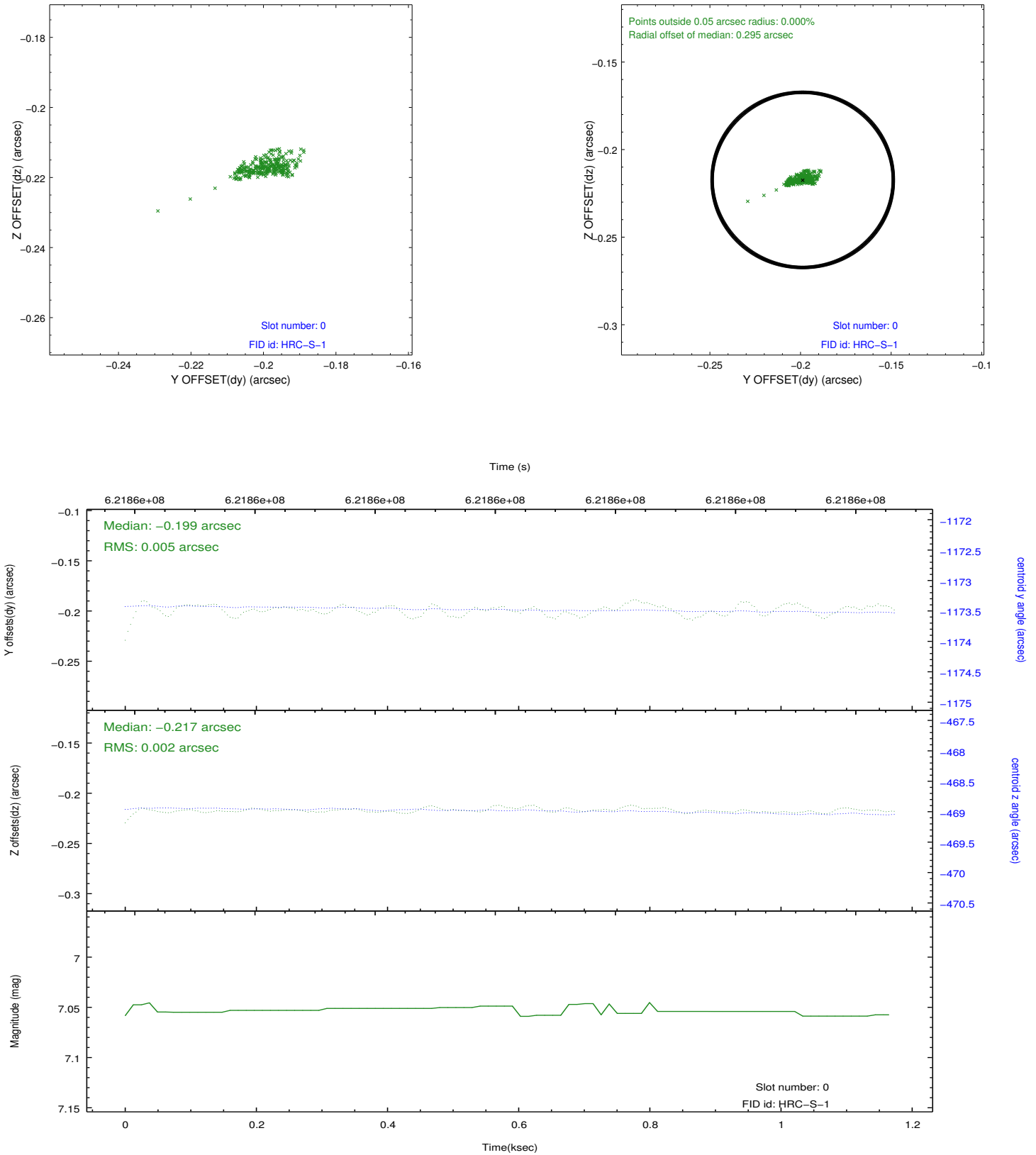


2.4.5 Slot 7

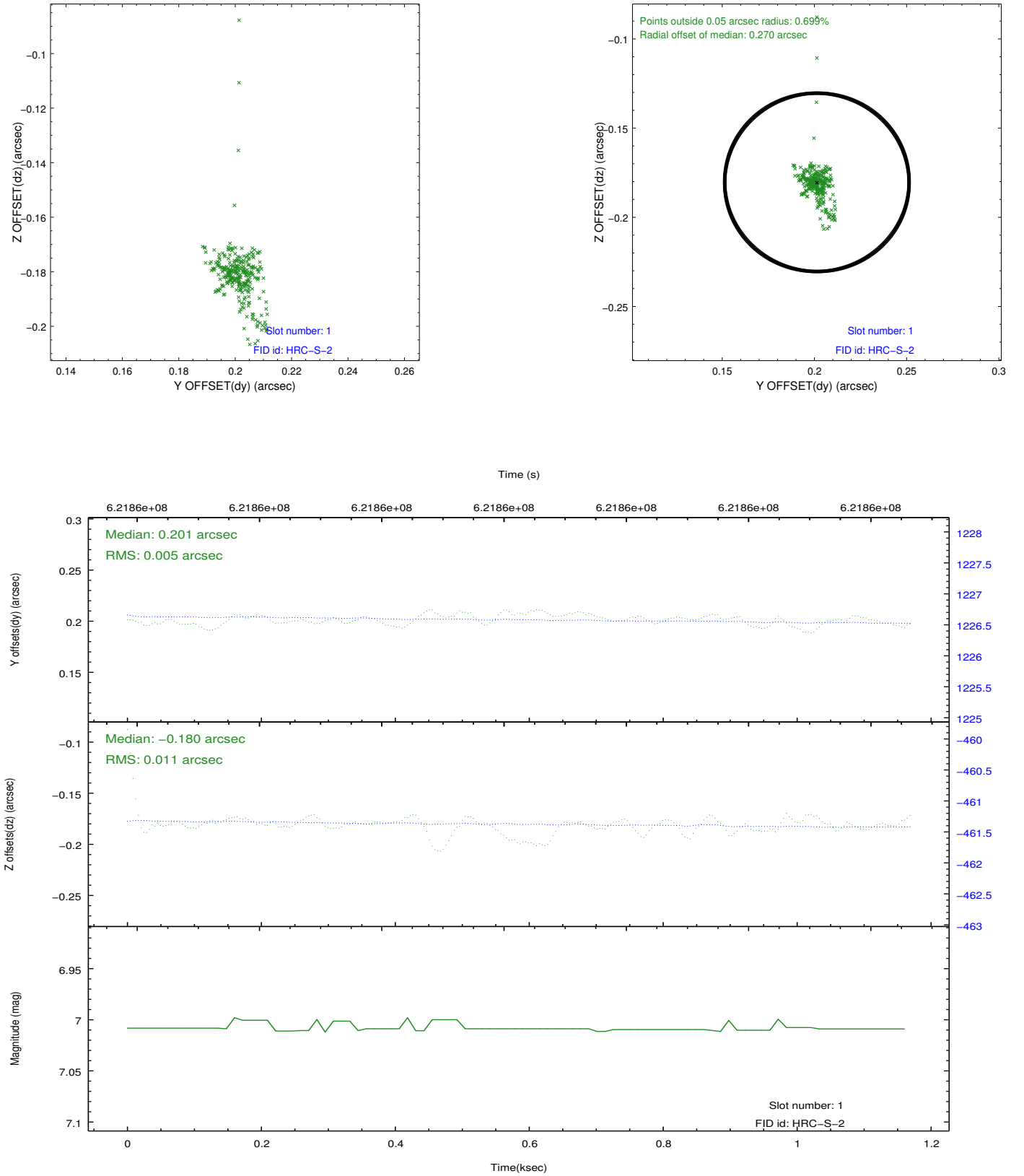


2.5 FID Slots

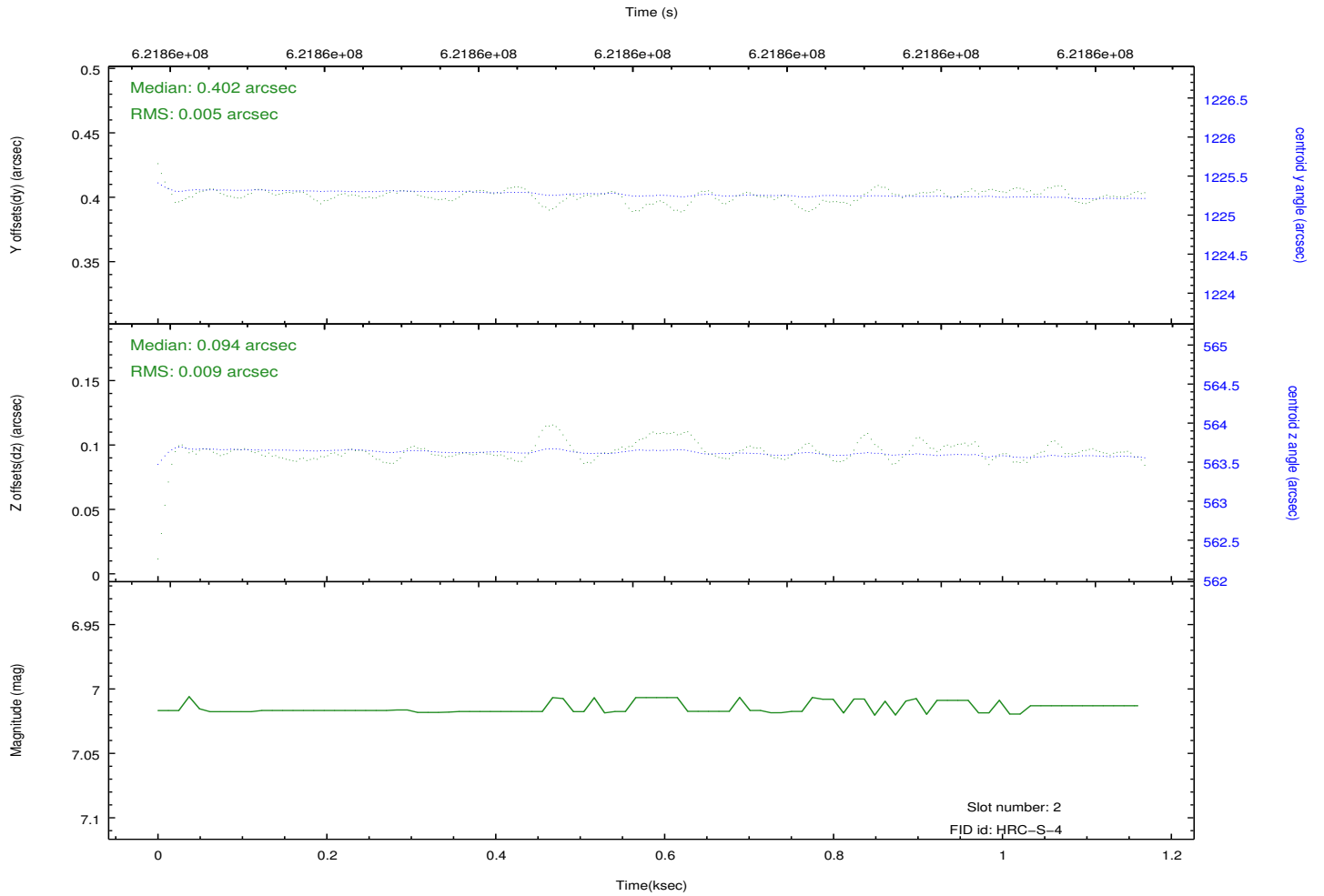
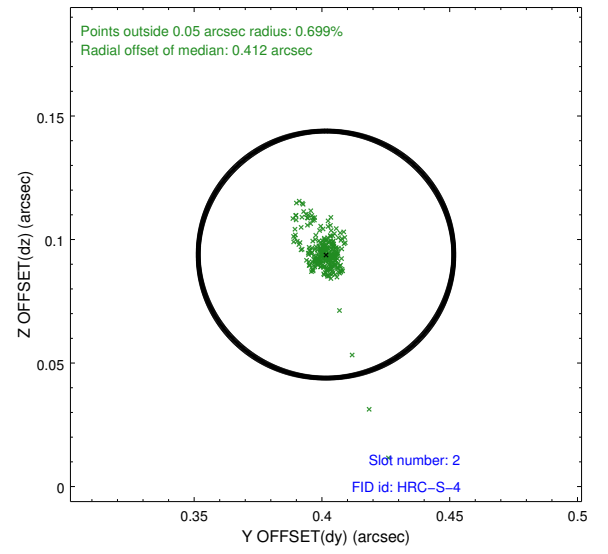
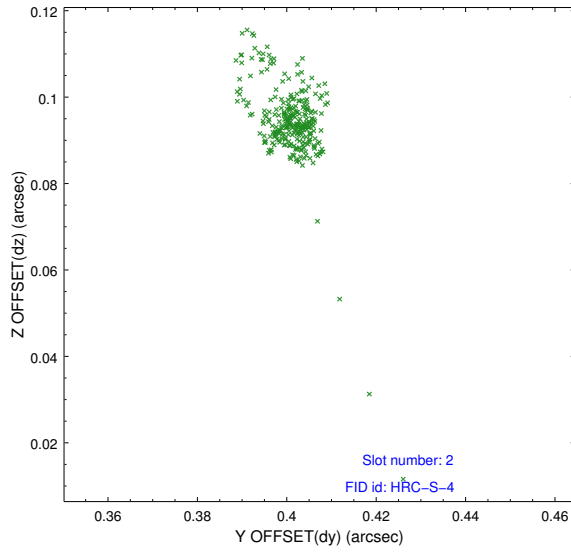
2.5.1 Slot 0



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)	2017.09.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.171575068593

A.2 Comments