

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21739 - L2 Version 1
Chandra X-Ray Center

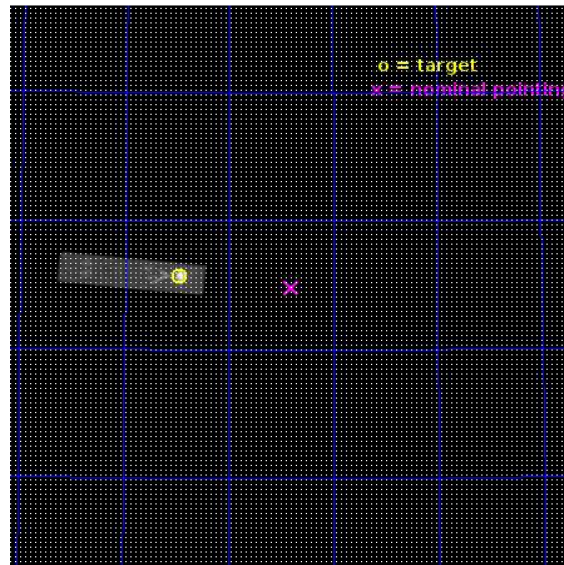
L2 Processing Date : Jul 5 2019

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

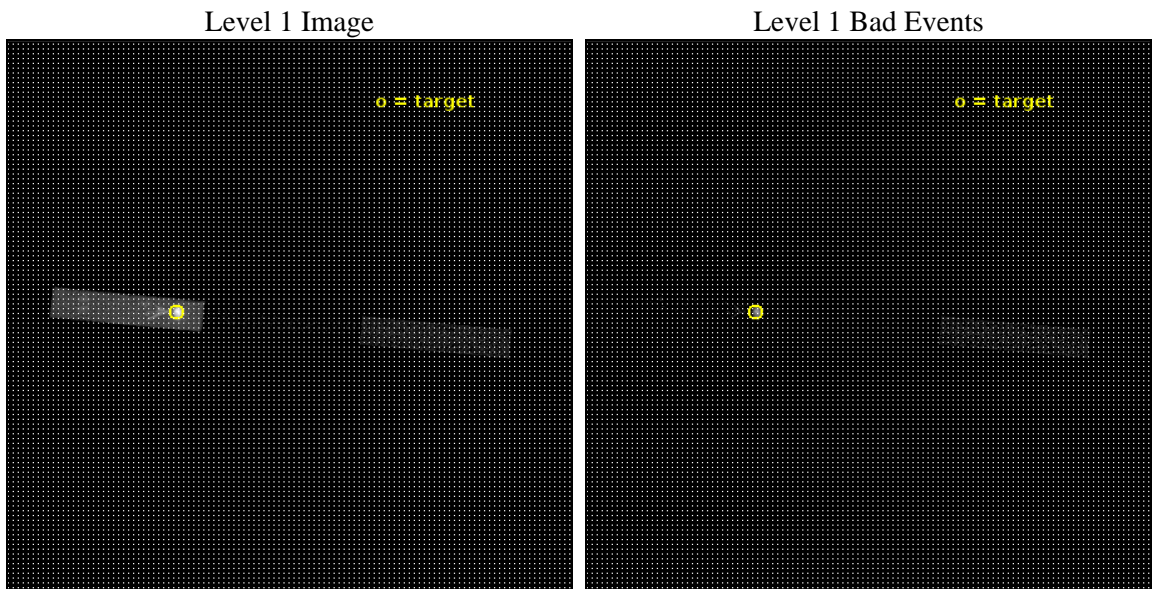
seq_num	291425	Sequence number
obs_id	21739	Observation id
title	AO-20 Measurements of the optical/UV Transmission of the HRC Filters.	Proposal title
observer	CXC Calibration	Principal investigator
object	Vega	Source name
ra_targ	279.236347	Observer's specified target RA [deg]
dec_targ	38.785478	Observer's specified target Dec [deg]
ra_nom	278.70050620554	Nominal RA [deg]
dec_nom	38.741905125392	Nominal Dec [deg]
roll_nom	185.48038637178	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1187.9750714302	[s]
livetime	530.24478320356	Ontime multiplied by DTCOR
l2events	210261	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	1000.000000	[s] Scheduled observation exposure time
ascdsver	10.8	Processing system revision	ontime	1187.9750714302	[s]
caldsver	4.8.3.1	 	l1events	267061	Number of level 1 events
date	2019-07-05T13:27:15	Date and time of file creation			
revision	1	Processing version of data			

2.1.3 Events

Level 1 Events

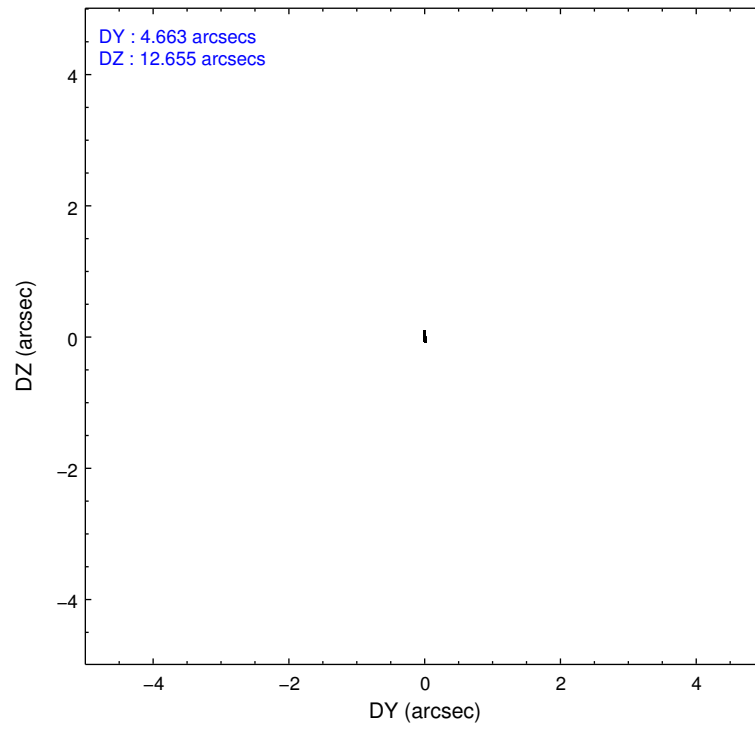
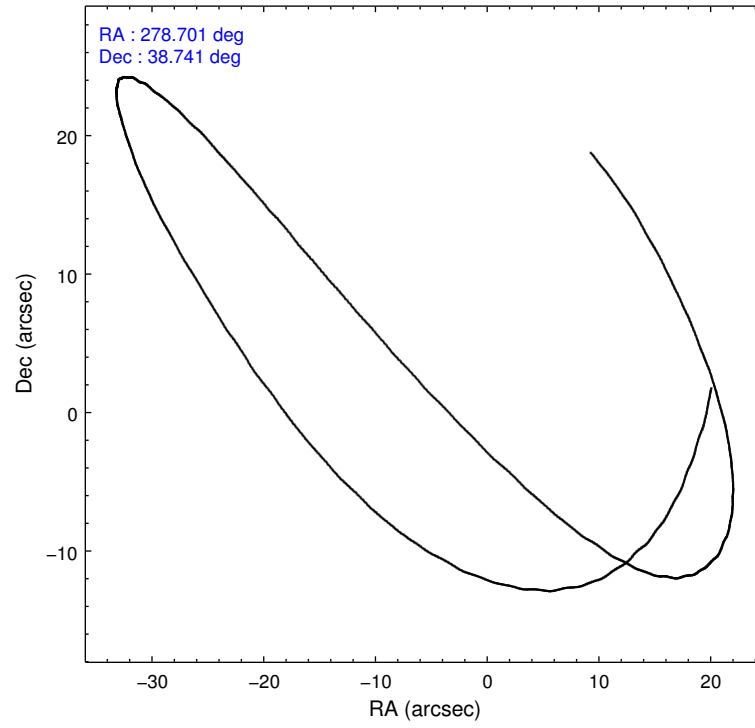
	segment 1	segment 2	segment 3
level 1 events	259094	416	7551
rejected events	40046	416	7507
rejected %	15%	100%	99%

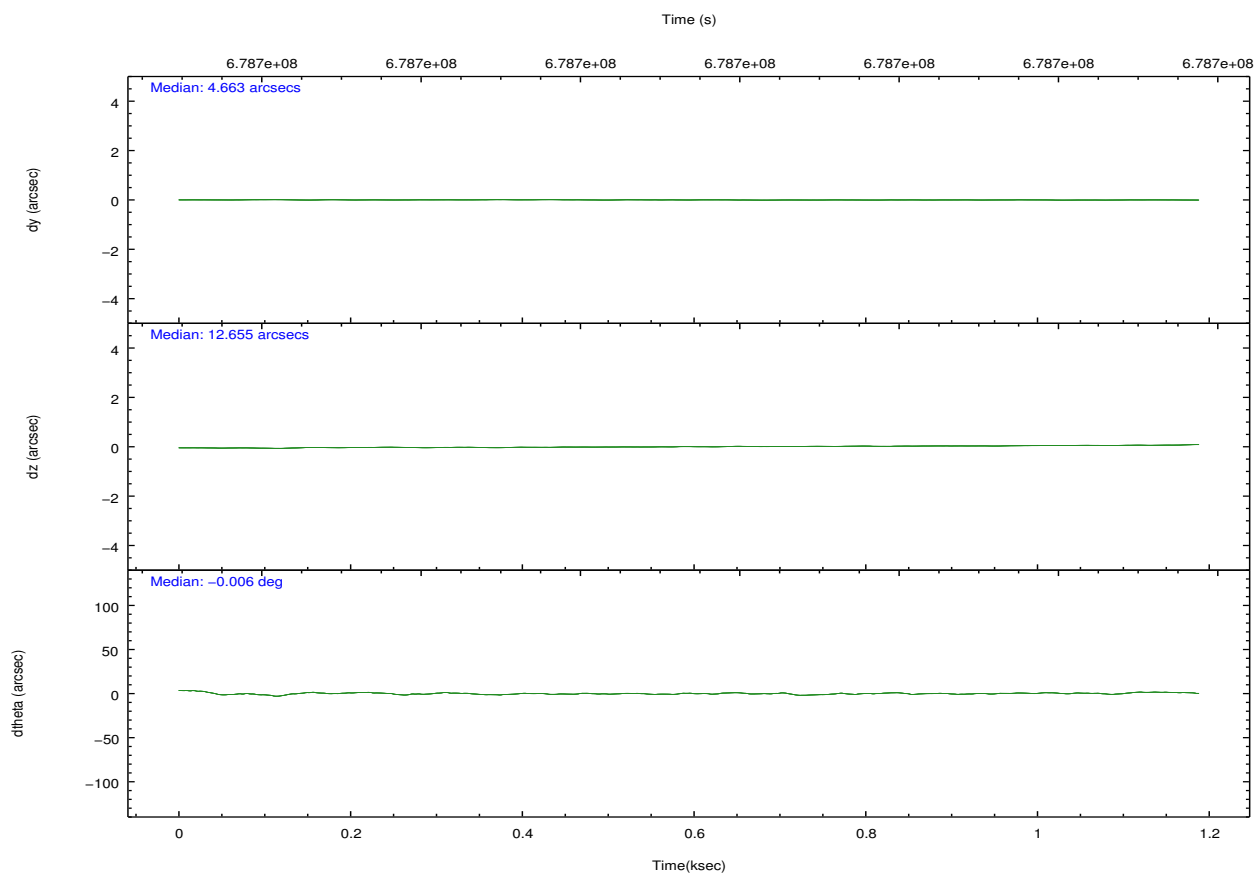
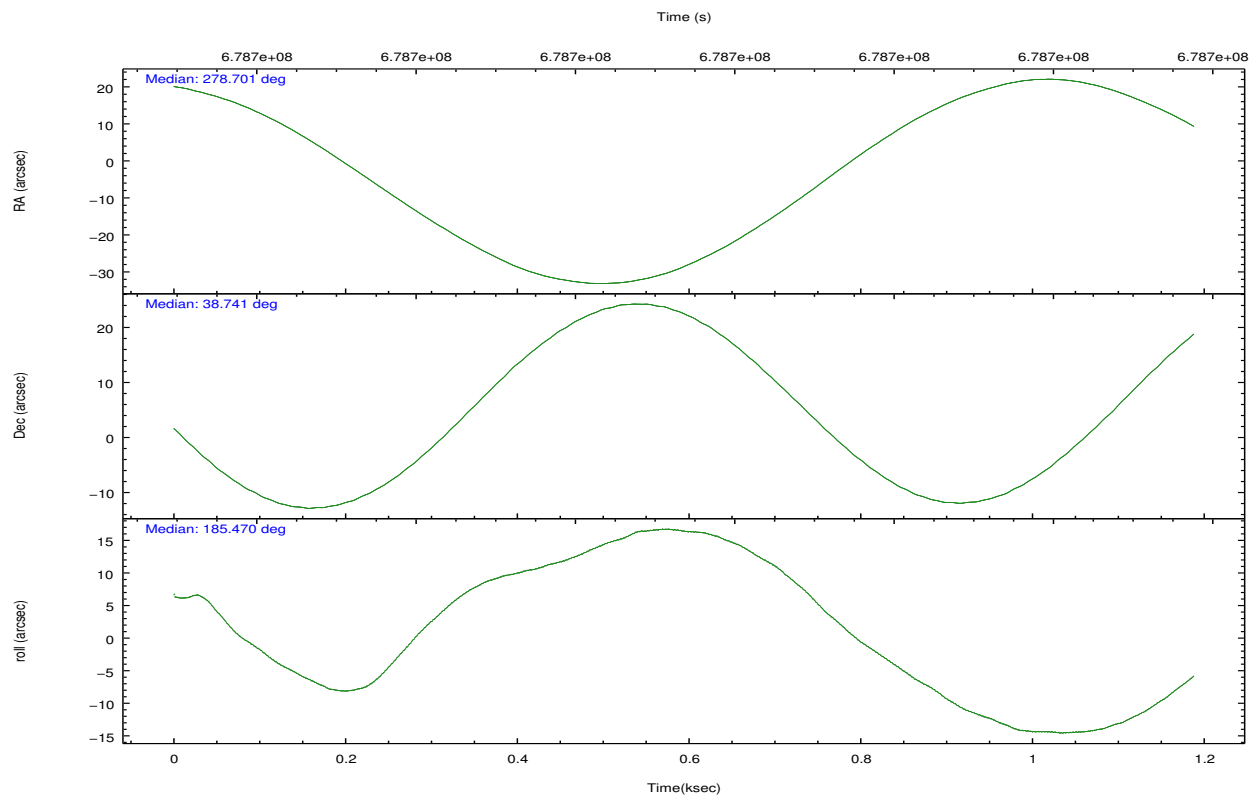
2.2 Compared Parameters

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	278.728953	278.7005062055395
[deg] Pointing Dec	38.760785	38.74190512539228
[deg] Pointing Roll	185.395214	185.480386371776
[s] Window start time (MET)	675734469.184000	675734469.184000
[s] Window stop time (MET)	680918469.184000	680918469.184000
[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)	678700328.184000	678699951.80796
Observation start date	2019-07-05T07:50:59	2019-07-05T07:45:51
[s] Observation end time (MET)	678701328.184000	678701463.68305
Observation end date	2019-07-05T08:07:39	2019-07-05T08:11:03

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

2.3 Aspect



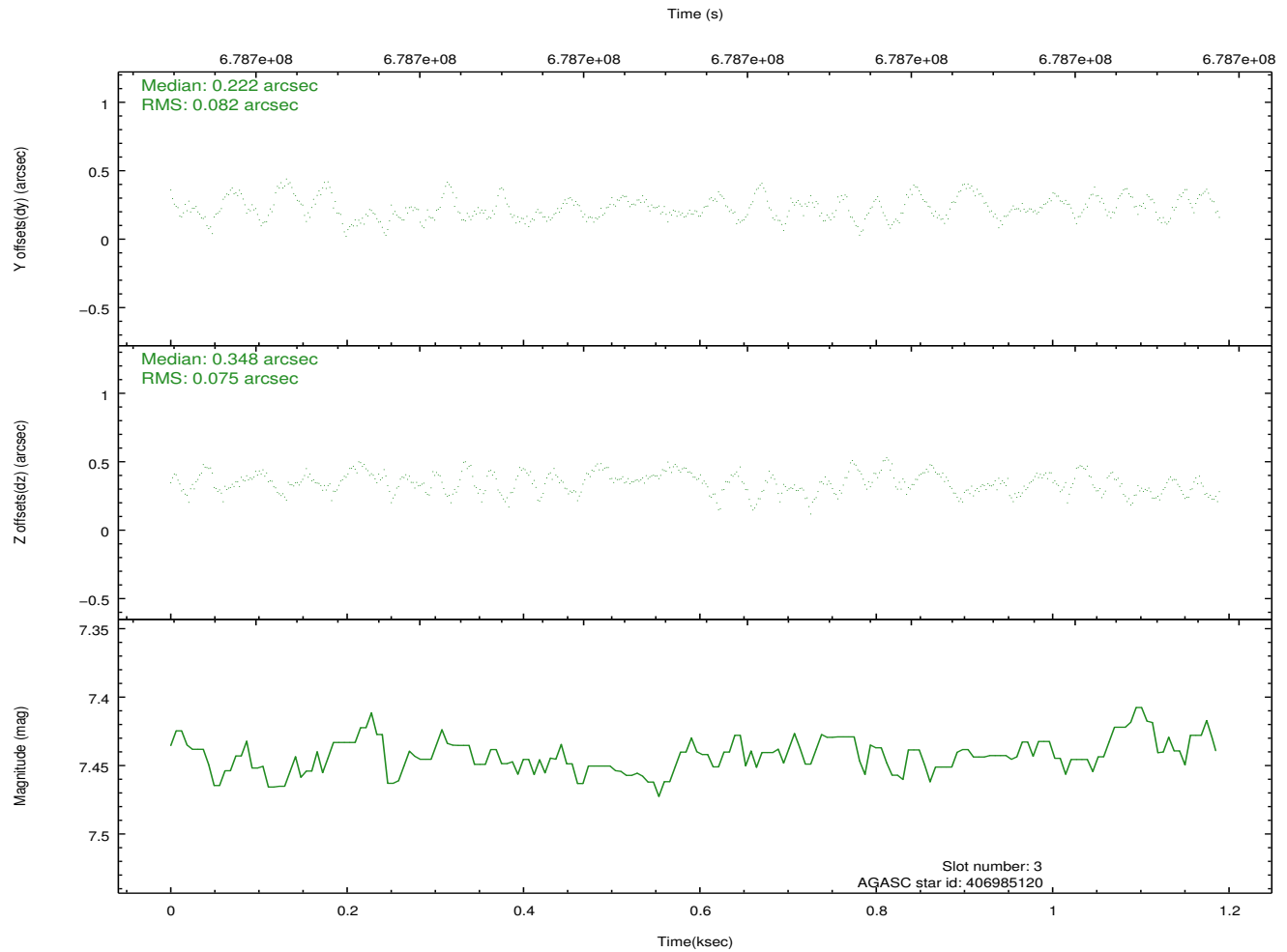
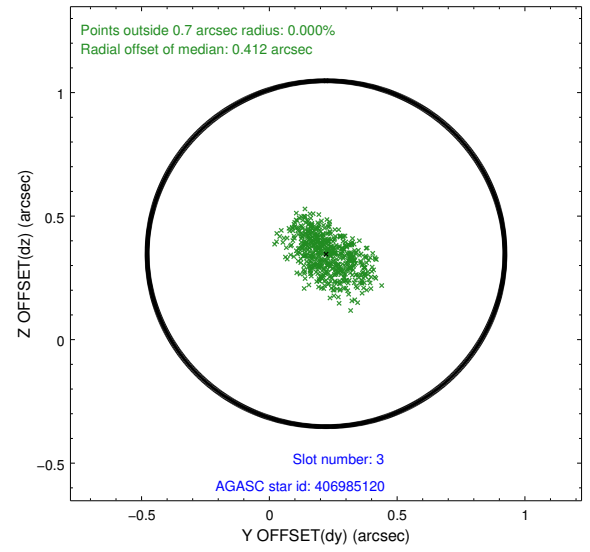
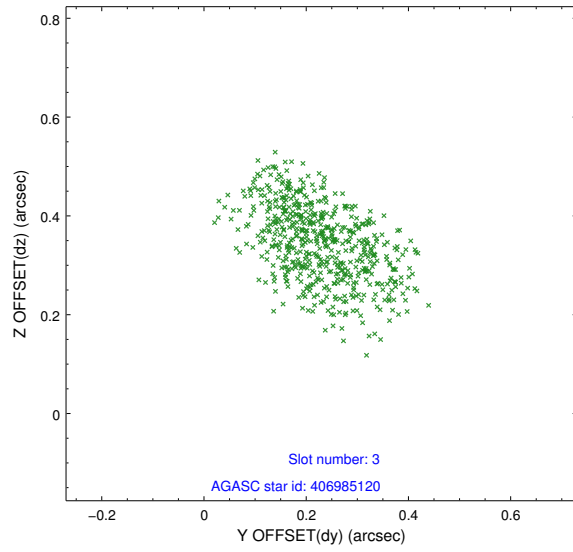


Slot Statistics

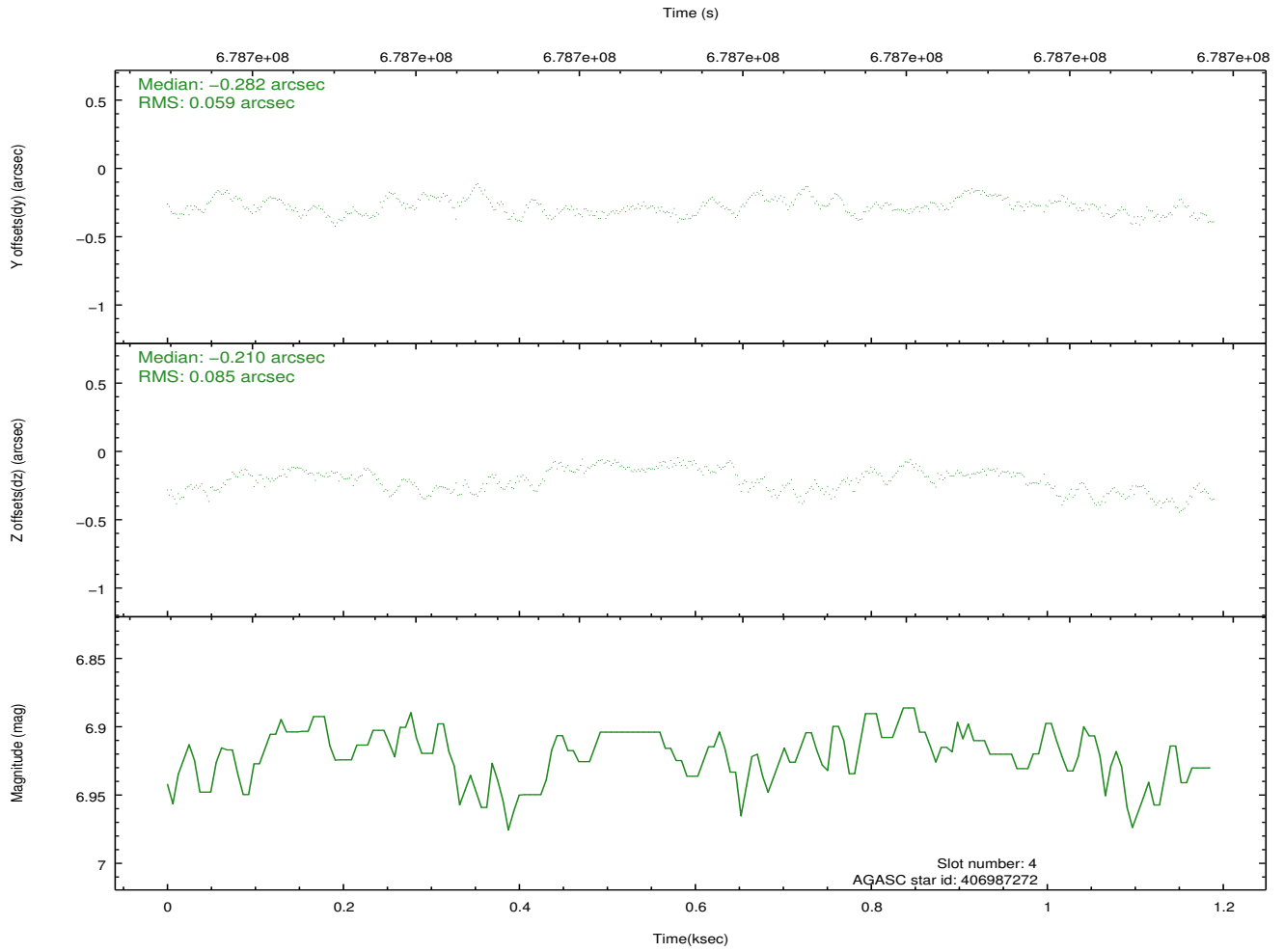
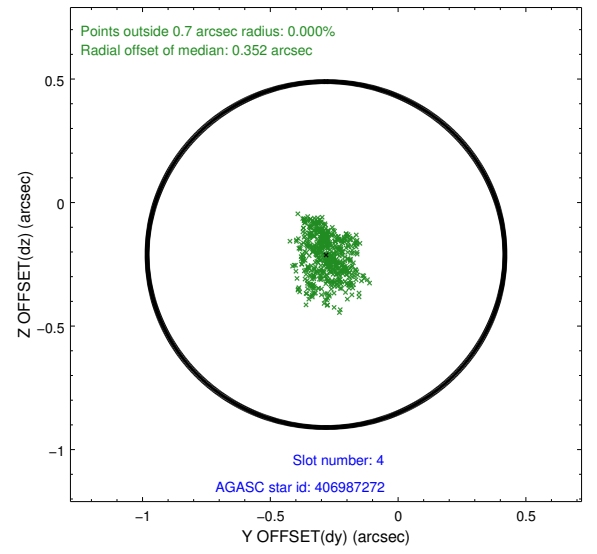
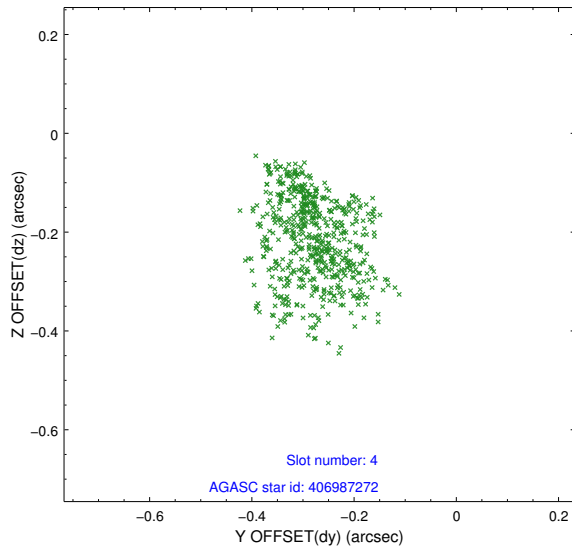
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-S-1	7.04	290	1.000	-0.077	-0.180	0.007	0.011	0.000000	0.000000	-1158.91	-461
1	FID		HRC-S-3	7.03	290	1.000	-0.045	-0.106	0.008	0.013	0.000000	0.000000	-1165.63	566
2	FID		HRC-S-4	6.99	290	1.000	0.509	-0.011	0.004	0.008	0.000000	0.000000	1235.85	572
3	GUIDE	used	406985120	7.44	581	1.000	0.222	0.348	0.117	0.187	278.839732	38.894839	-352.29	-454
4	GUIDE	used	406987272	6.92	580	1.000	-0.282	-0.210	0.110	0.172	278.536588	38.437504	650.45	1101
5	GUIDE	used	406987384	8.94	581	1.000	0.061	-0.259	0.127	0.217	278.815518	38.115336	-23.21	2334
6	GUIDE	used	406989616	8.21	581	1.000	-0.086	0.074	0.099	0.175	279.202881	38.520843	-1246.52	982
7	GUIDE	used	406990192	8.98	580	1.000	0.079	0.057	0.140	0.223	278.510952	38.533654	687.46	753

2.4 Star Slots

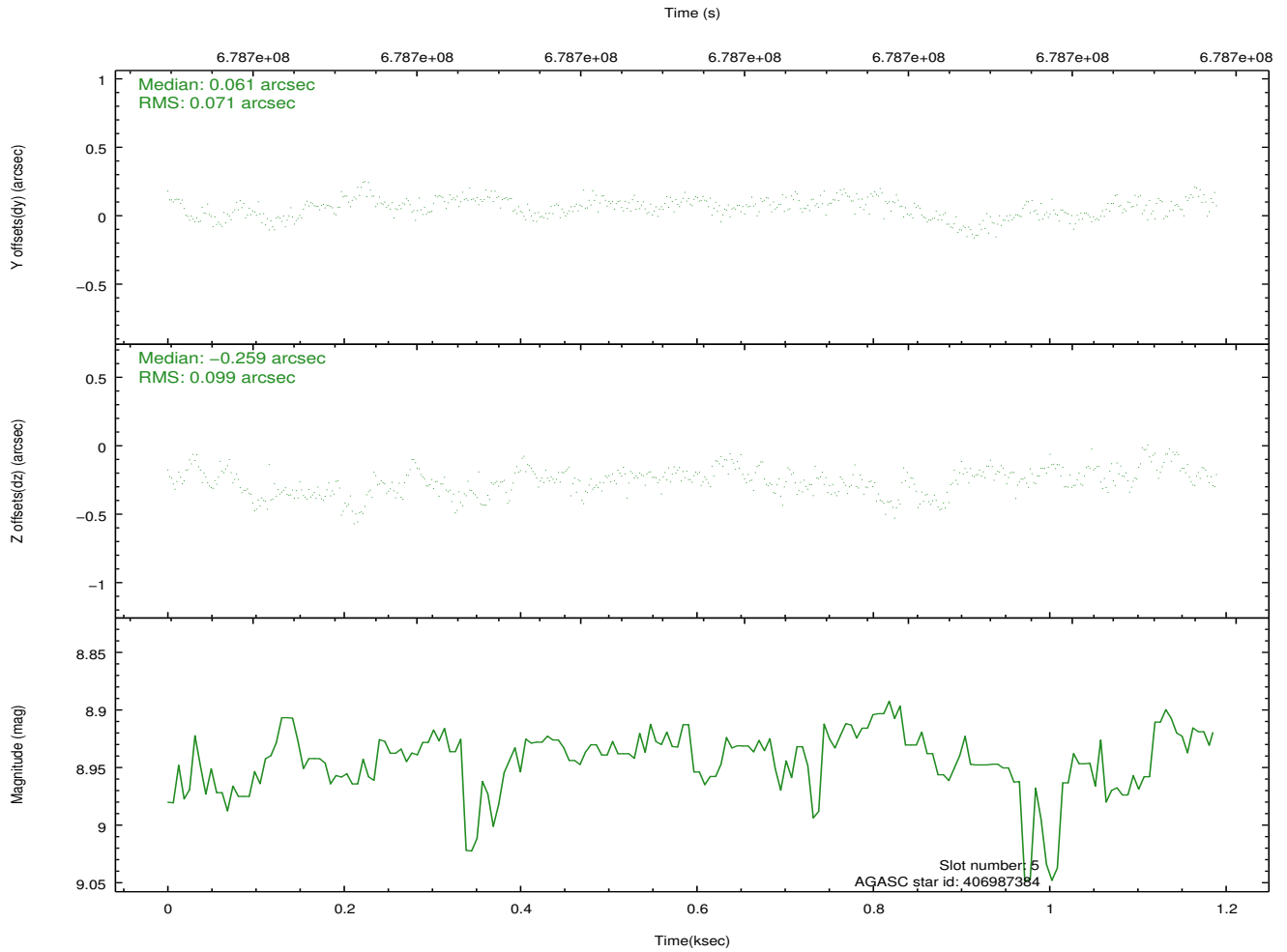
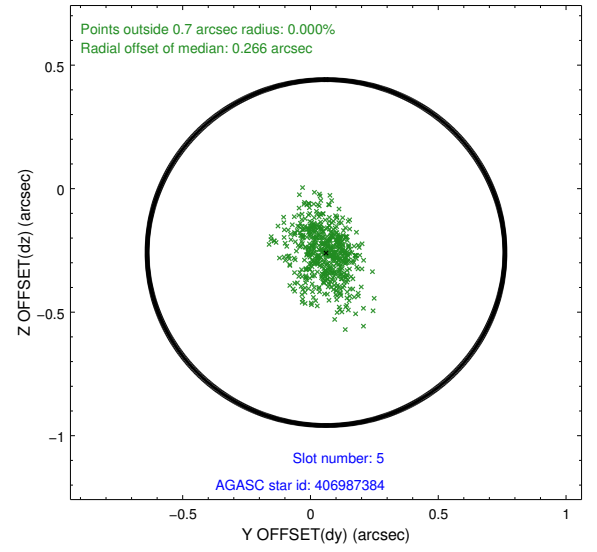
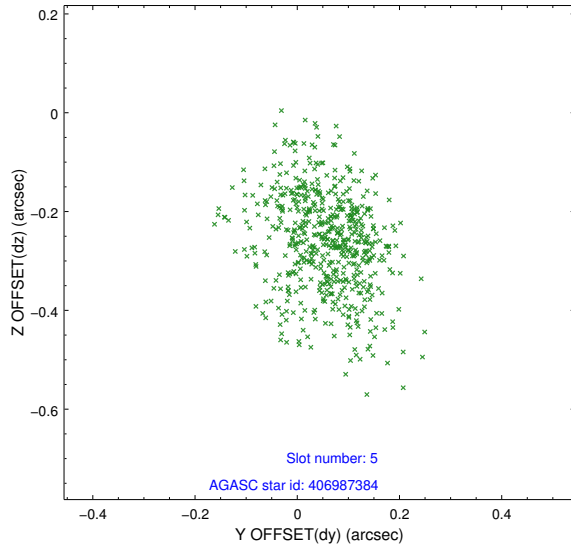
2.4.1 Slot 3



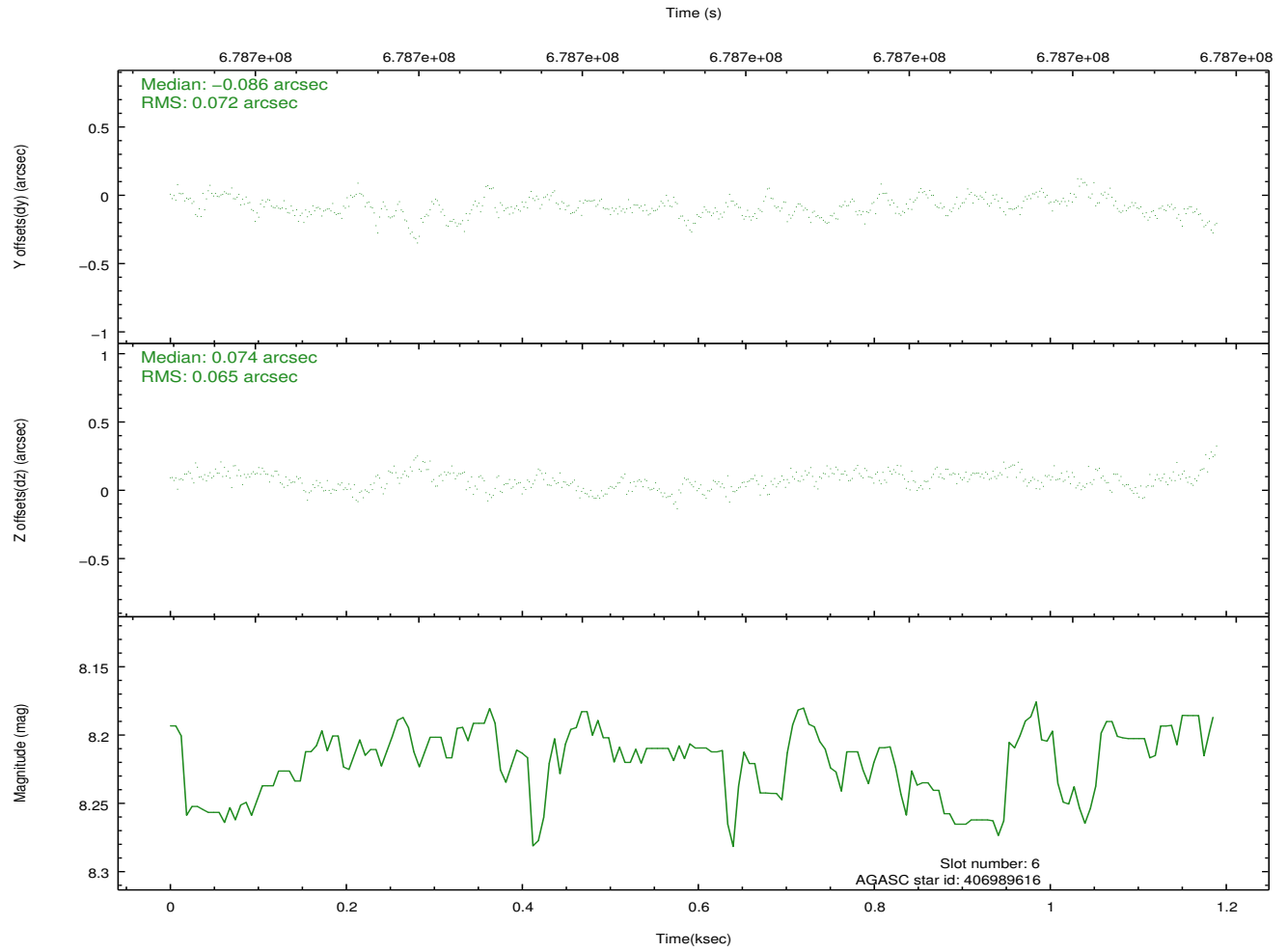
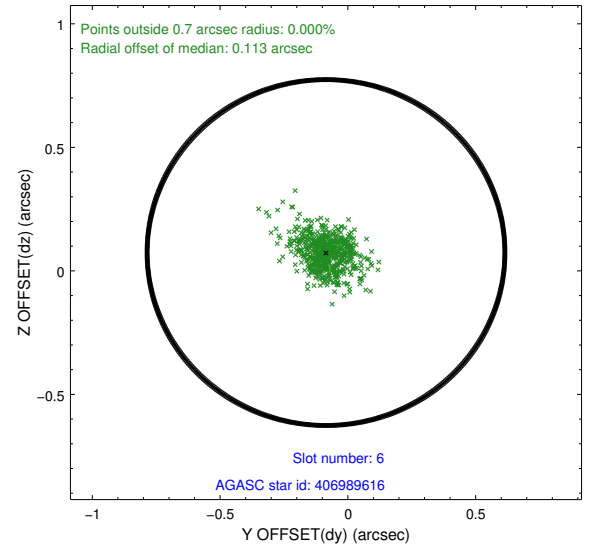
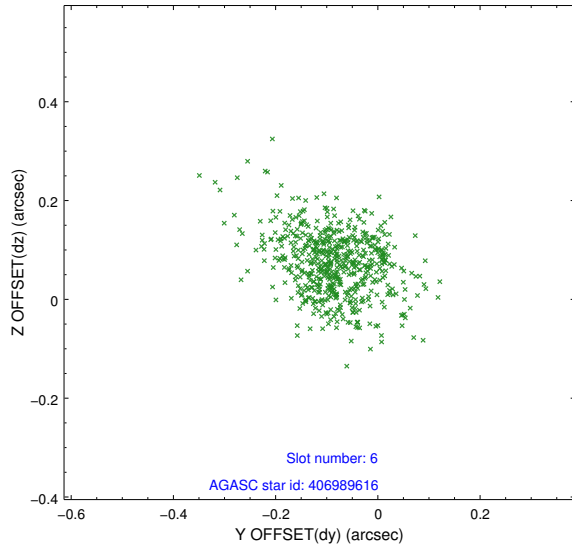
2.4.2 Slot 4



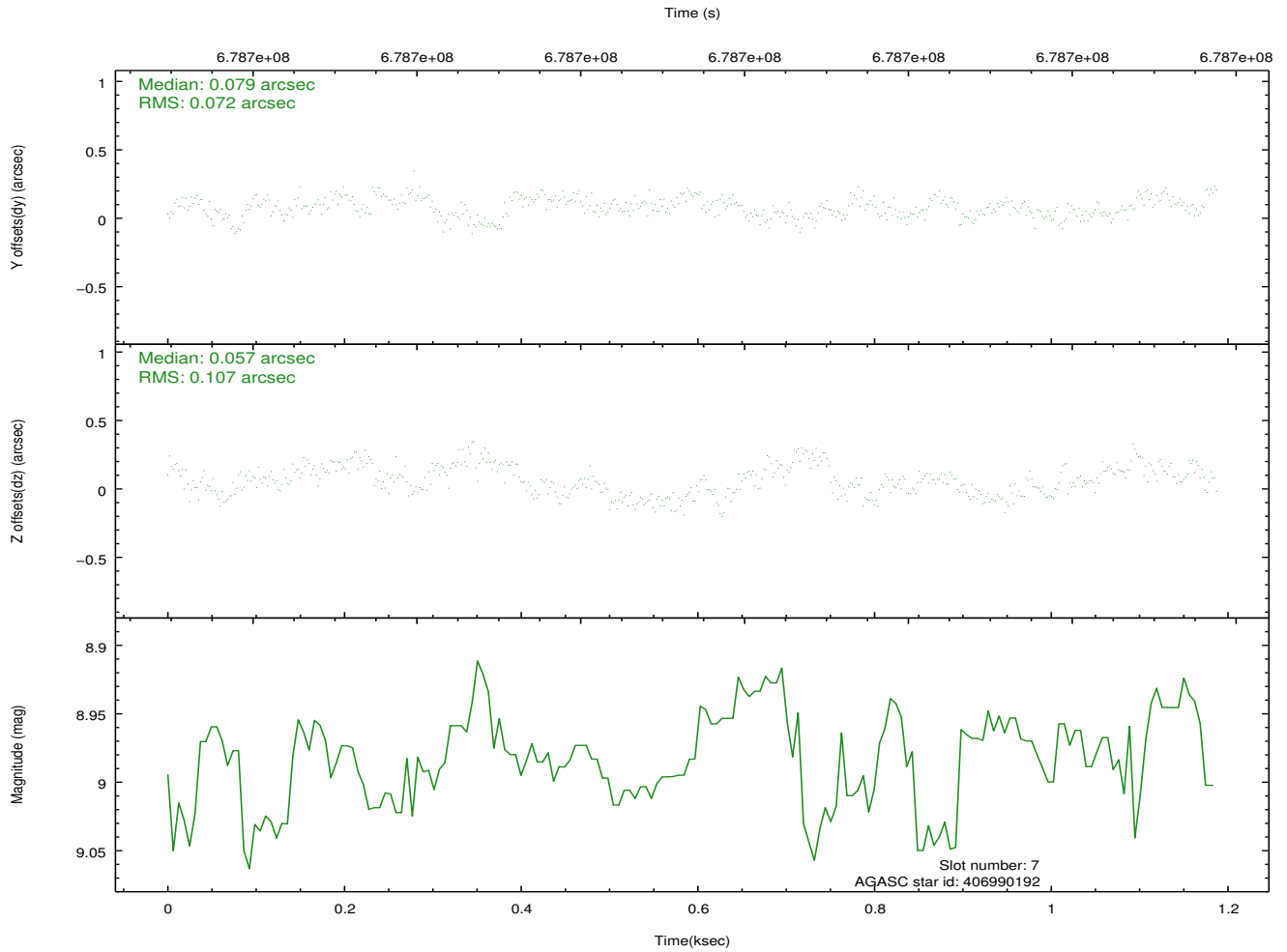
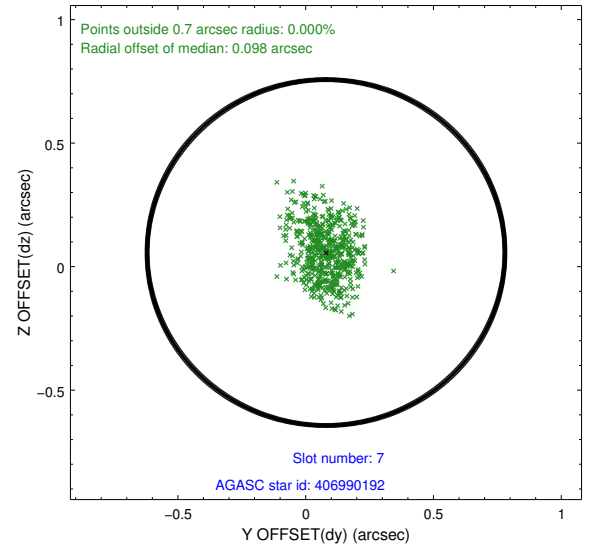
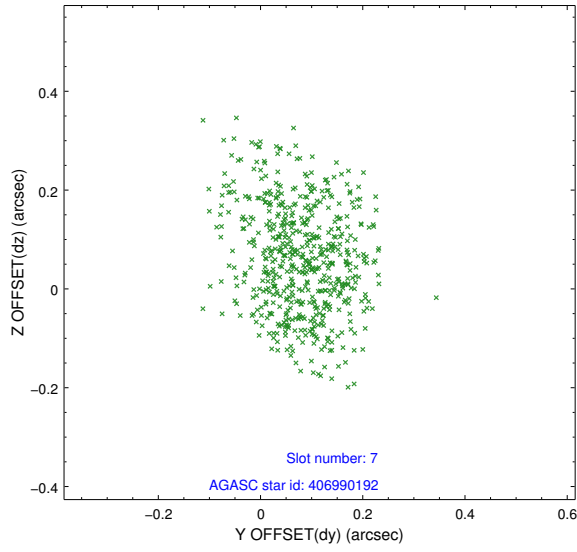
2.4.3 Slot 5



2.4.4 Slot 6

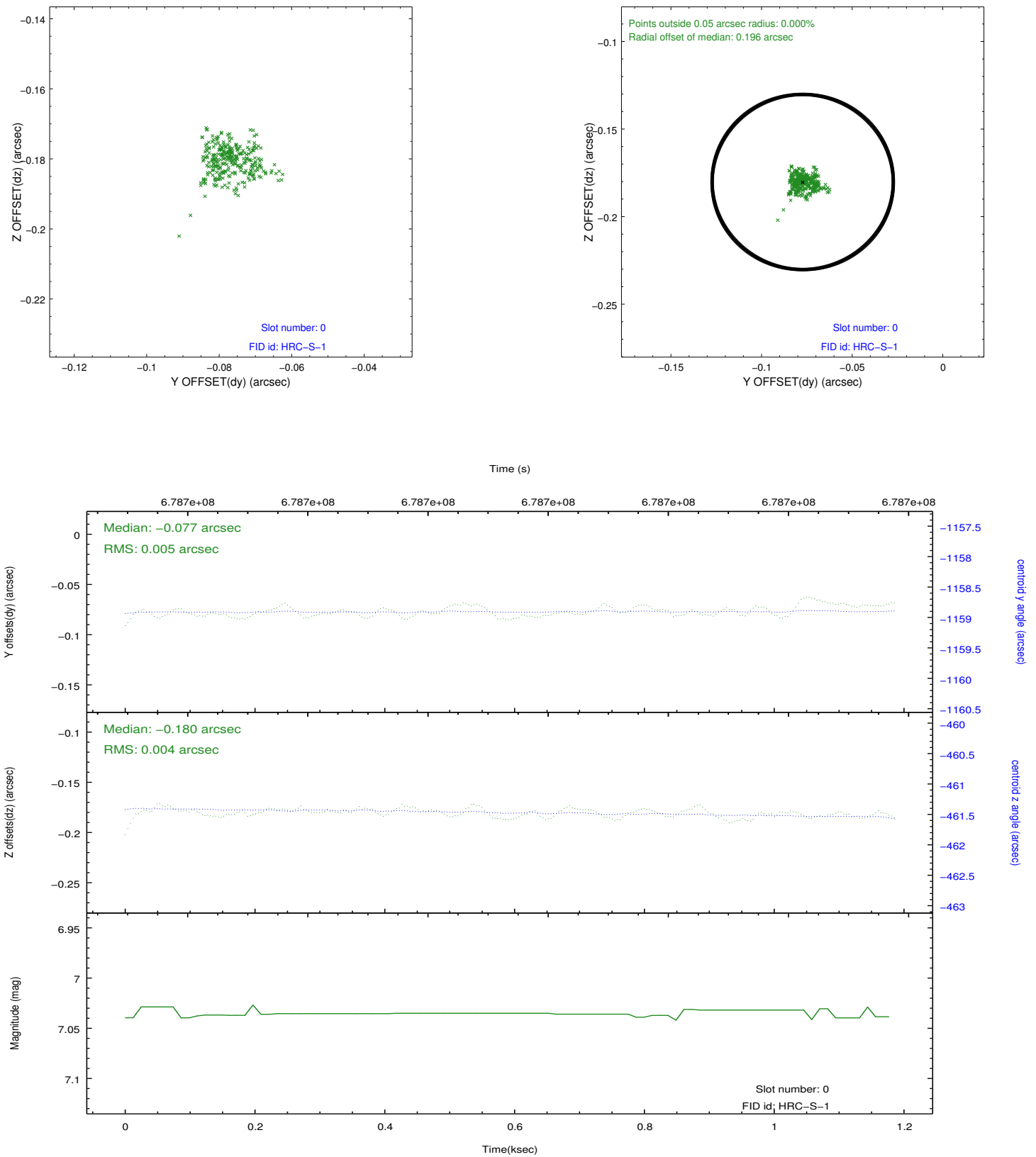


2.4.5 Slot 7

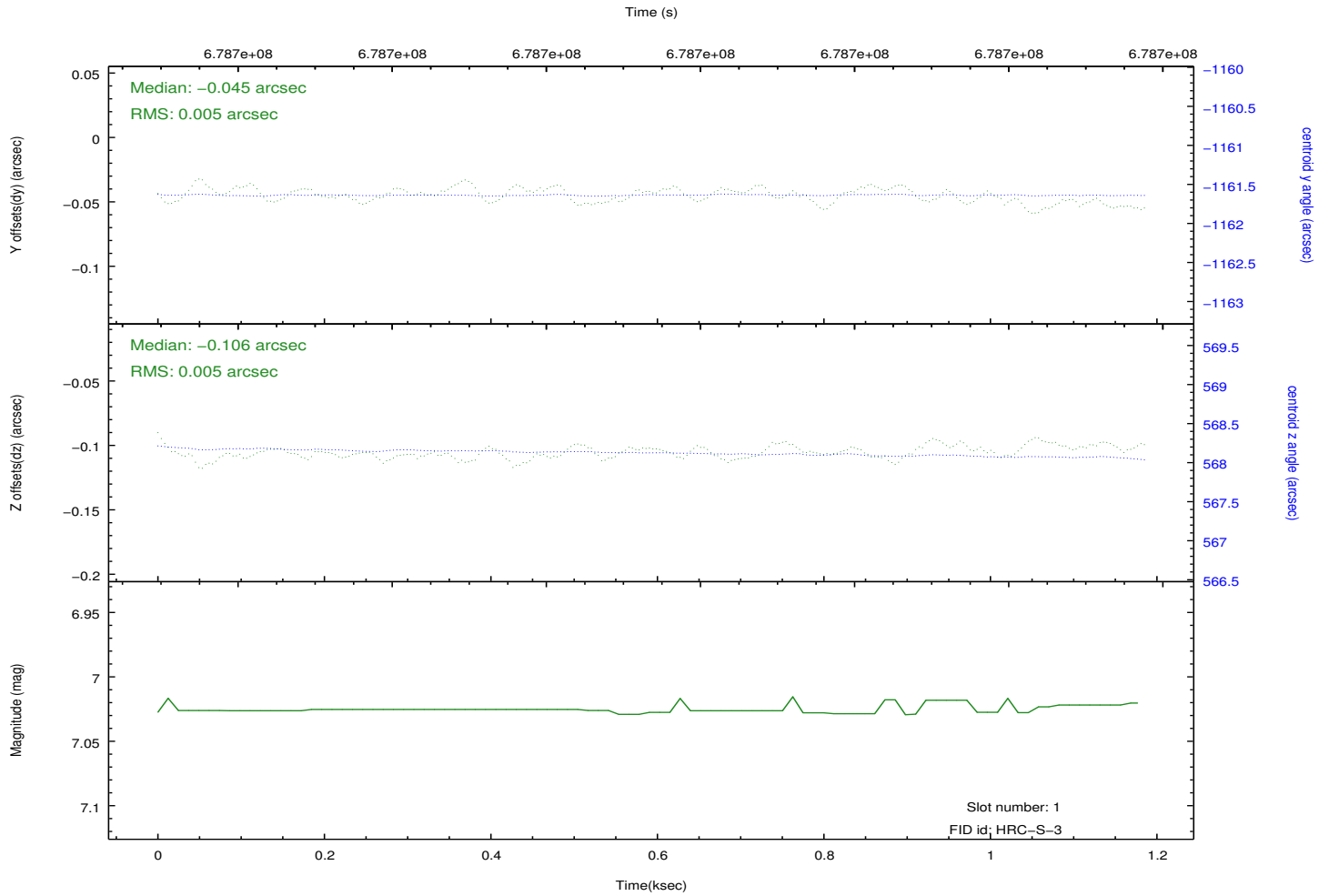
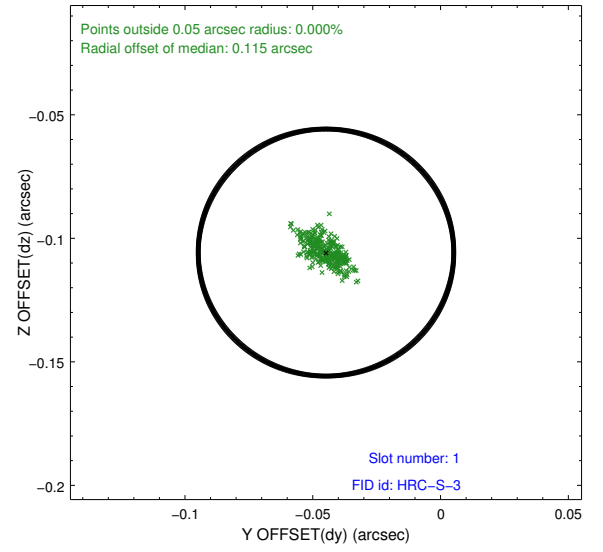
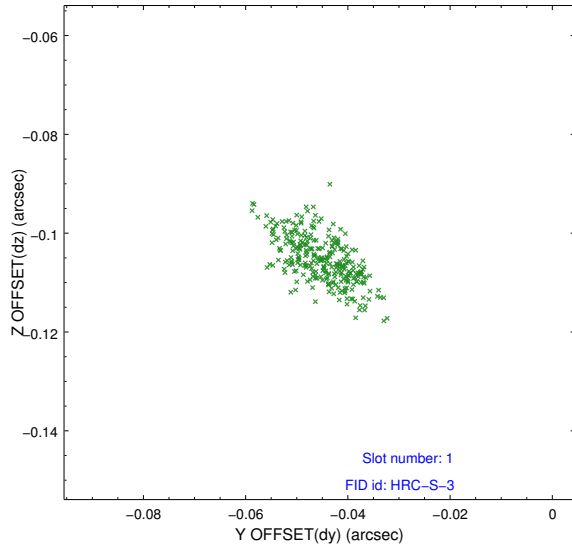


2.5 FID Slots

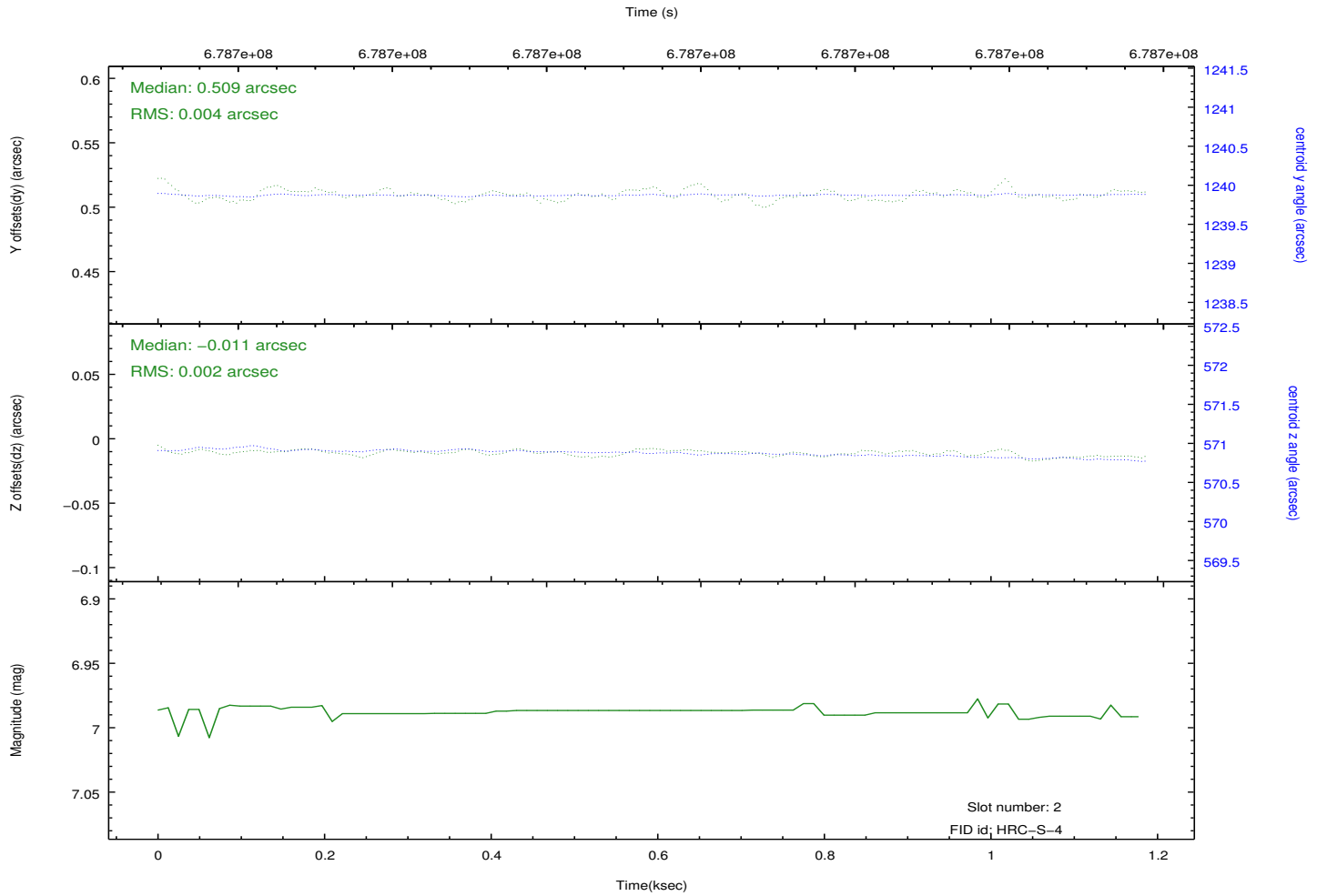
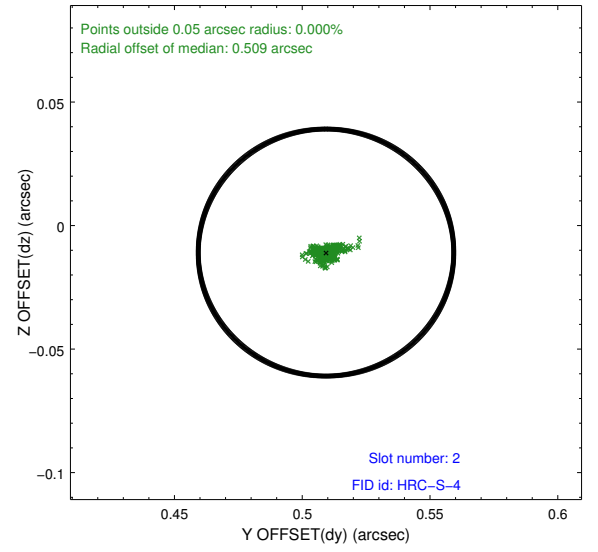
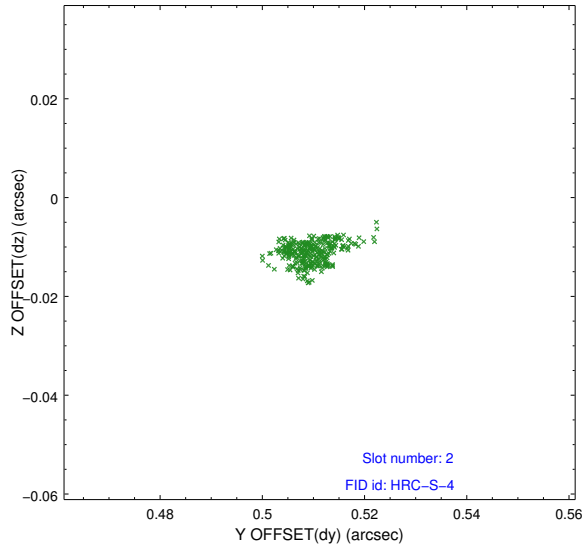
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2019.07.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1879750714302

A.2 Comments

Window constraint met.