

V&V Reference Report

L2 ASCDS Version : 10.4.2.1

Observation 18686 - L2 Version 1
Chandra X-Ray Center

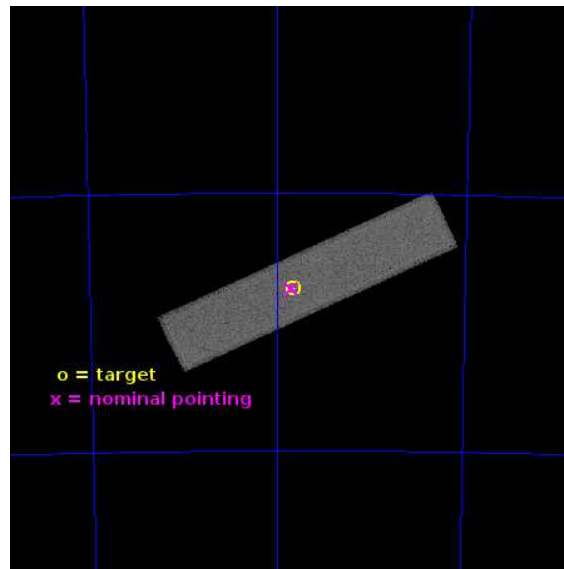
L2 Processing Date : Nov 5 2015

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

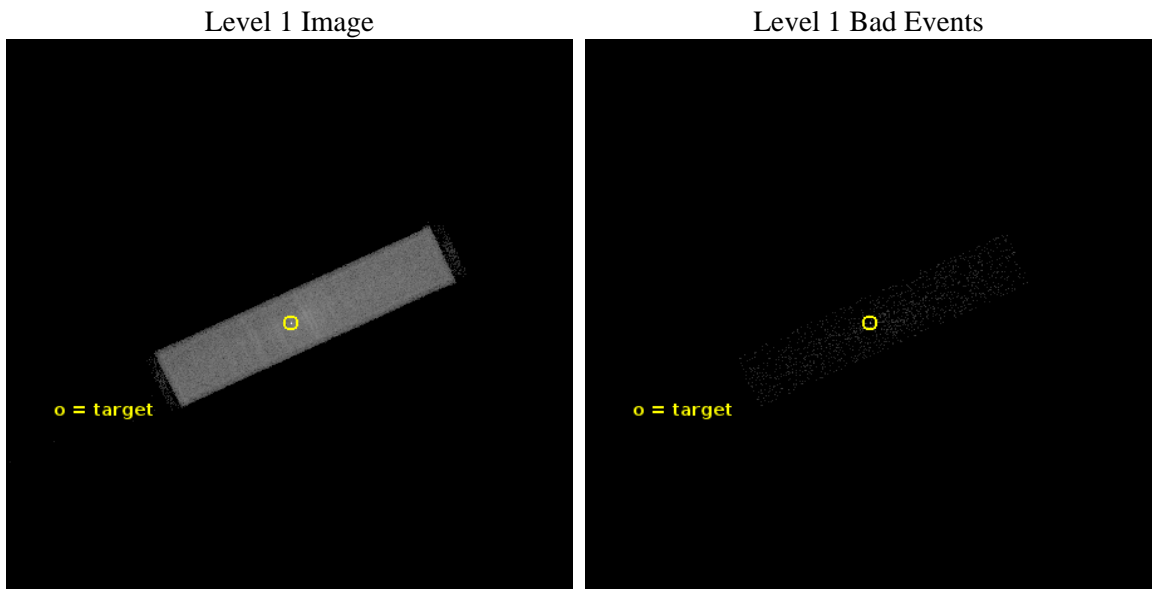
seq_num	401816	Sequence number
obs_id	18686	Observation id
title	High Spatial/Temporal Resolution Chandra Follow-up of the 2015 outburst of the X-ray pulsar SMC X-2	Proposal title
observer	Dr. Kwan Lok Li	Principal investigator
object	SMC X-2	Source name
ra_targ	13.639167	Observer's specified target RA [deg]
dec_targ	-73.683972	Observer's specified target Dec [deg]
ra_nom	13.653763040084	Nominal RA [deg]
dec_nom	-73.685805464151	Nominal Dec [deg]
roll_nom	334.42995881363	Nominal Roll [deg]
revision	1	Processing version of data
ontime	2938.9314165115	[s]
livetime	2714.4271338226	Ontime multiplied by DTCOR
l2events	112693	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	2800.000000	[s] Scheduled observation exposure time
ascdsver	10.4.2.1	Processing system revision	ontime	2938.9314165115	[s]
caldsver	4.6.10a	 	l1events	191384	Number of level 1 events
date	2015-11-06T03:20:18	Date and time of file creation			
revision	1	Processing version of data			

2.1.3 Events

Level 1 Events

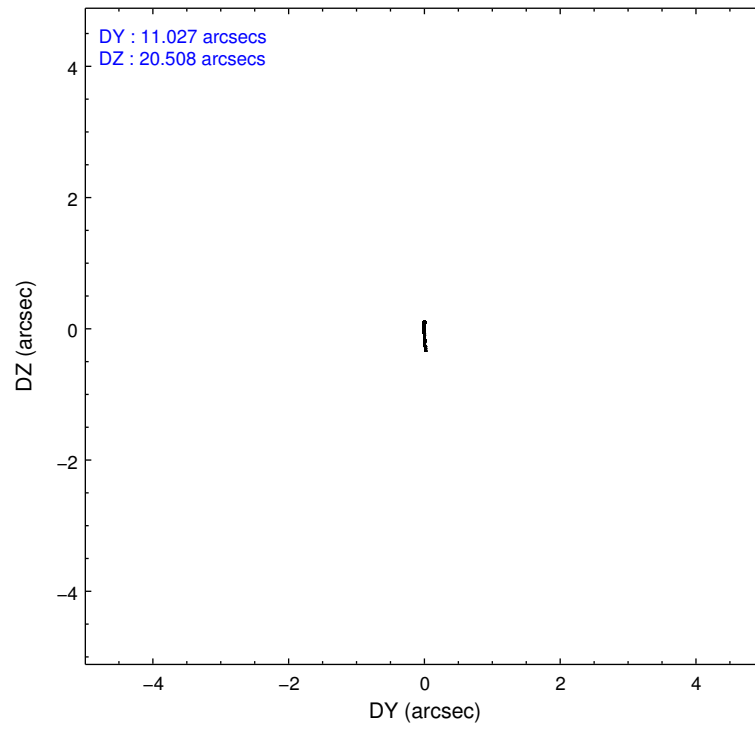
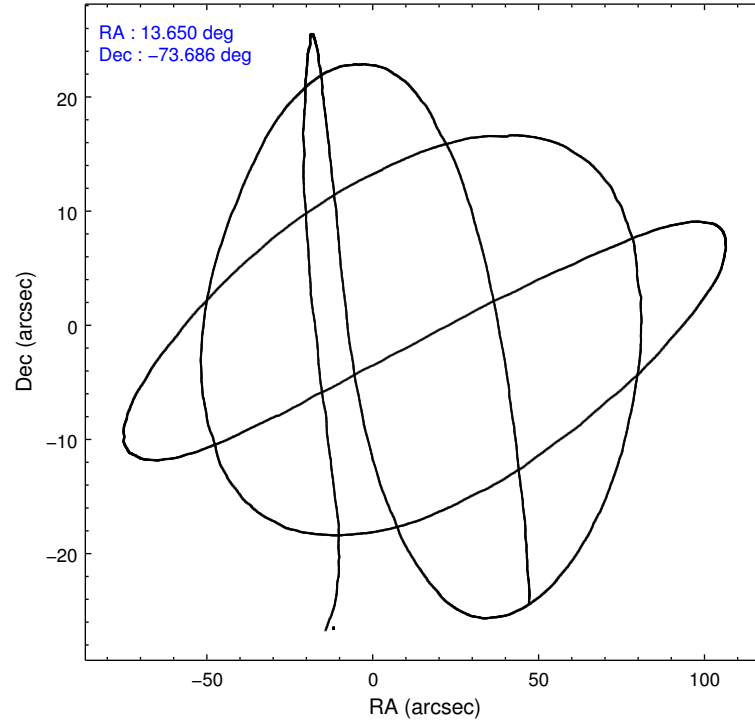
	segment 1	segment 2	segment 3
level 1 events	200	191176	8
rejected events	47	41612	7
rejected %	23%	21%	87%

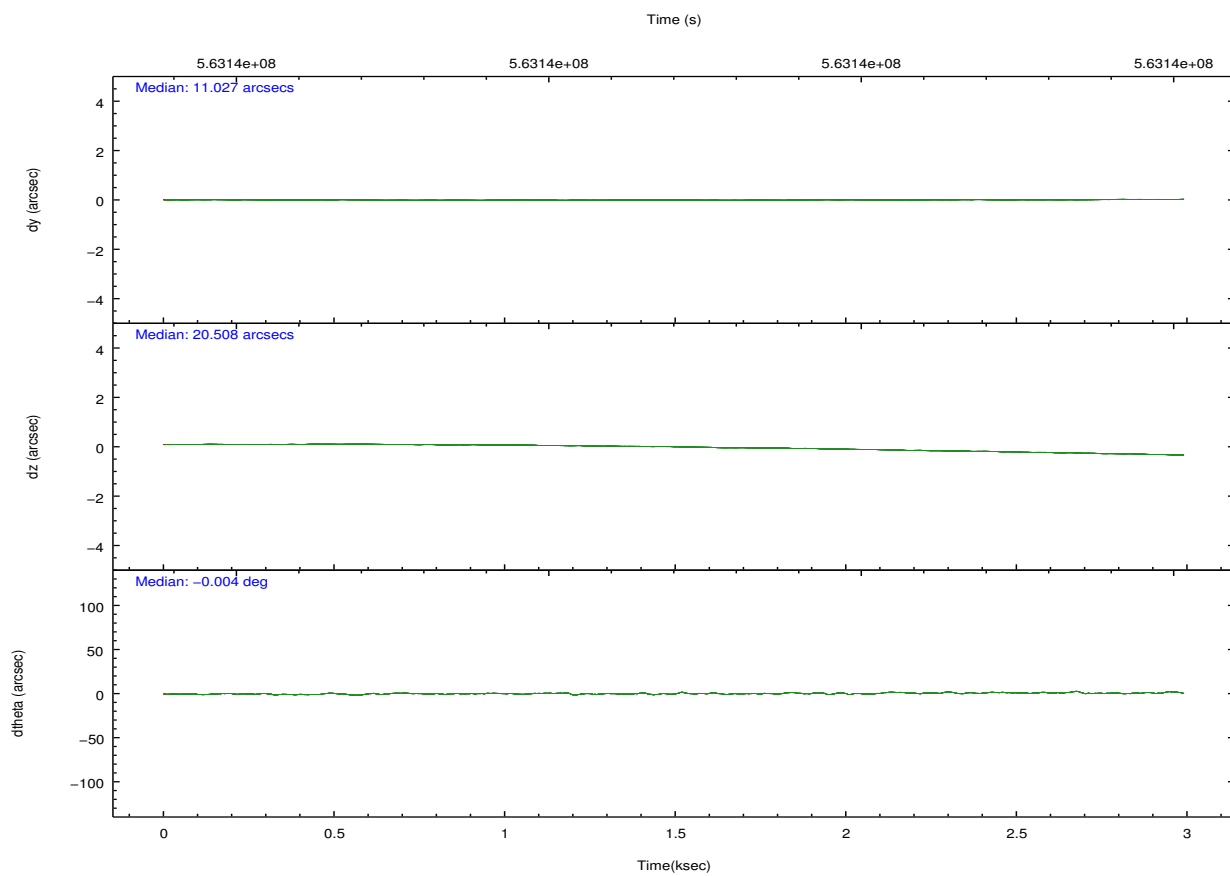
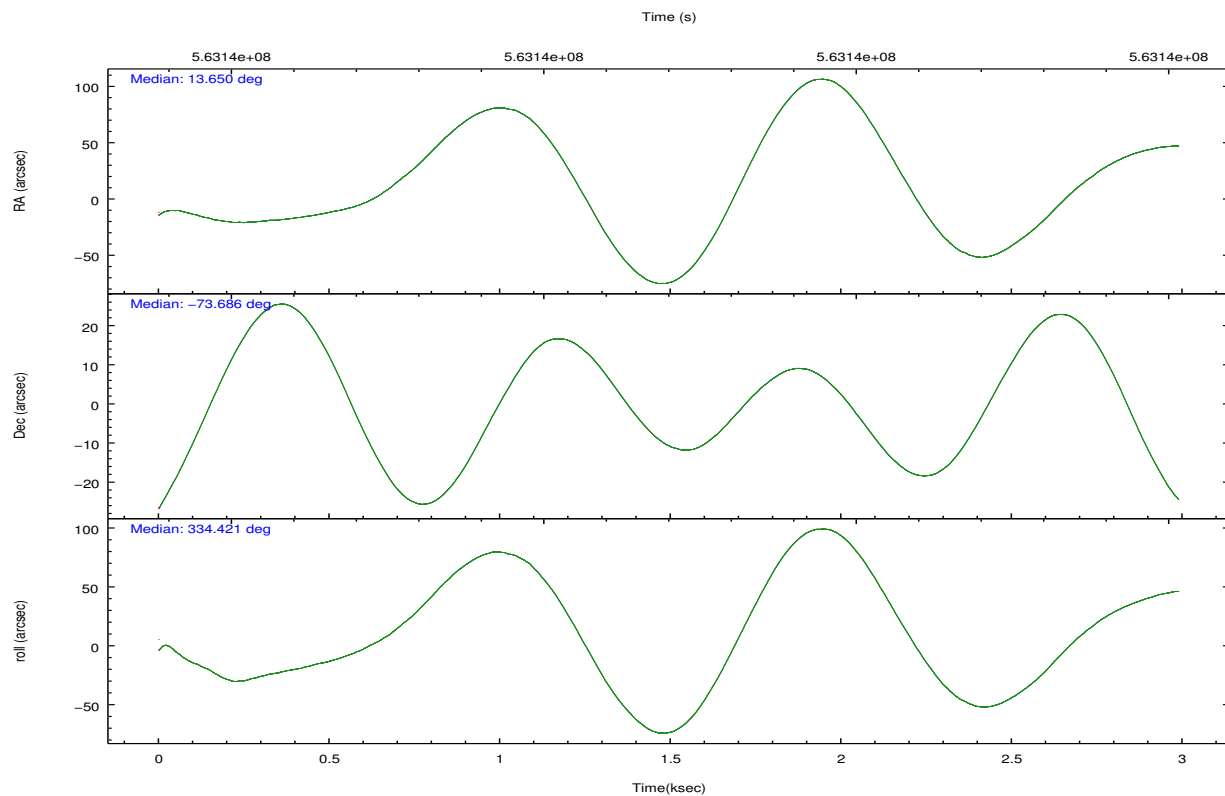
2.2 Compared Parameters

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	13.552962	13.65376304008428
[deg] Pointing Dec	-73.689693	-73.68580546415103
[deg] Pointing Roll	334.265843	334.4299588136328
[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)	563137087.184000	563136202.67707
Observation start date	2015-11-05T18:56:59	2015-11-05T18:43:22
[s] Observation end time (MET)	563139887.184000	563140763.41483
Observation end date	2015-11-05T19:43:39	2015-11-05T19:59:23

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

2.3 Aspect



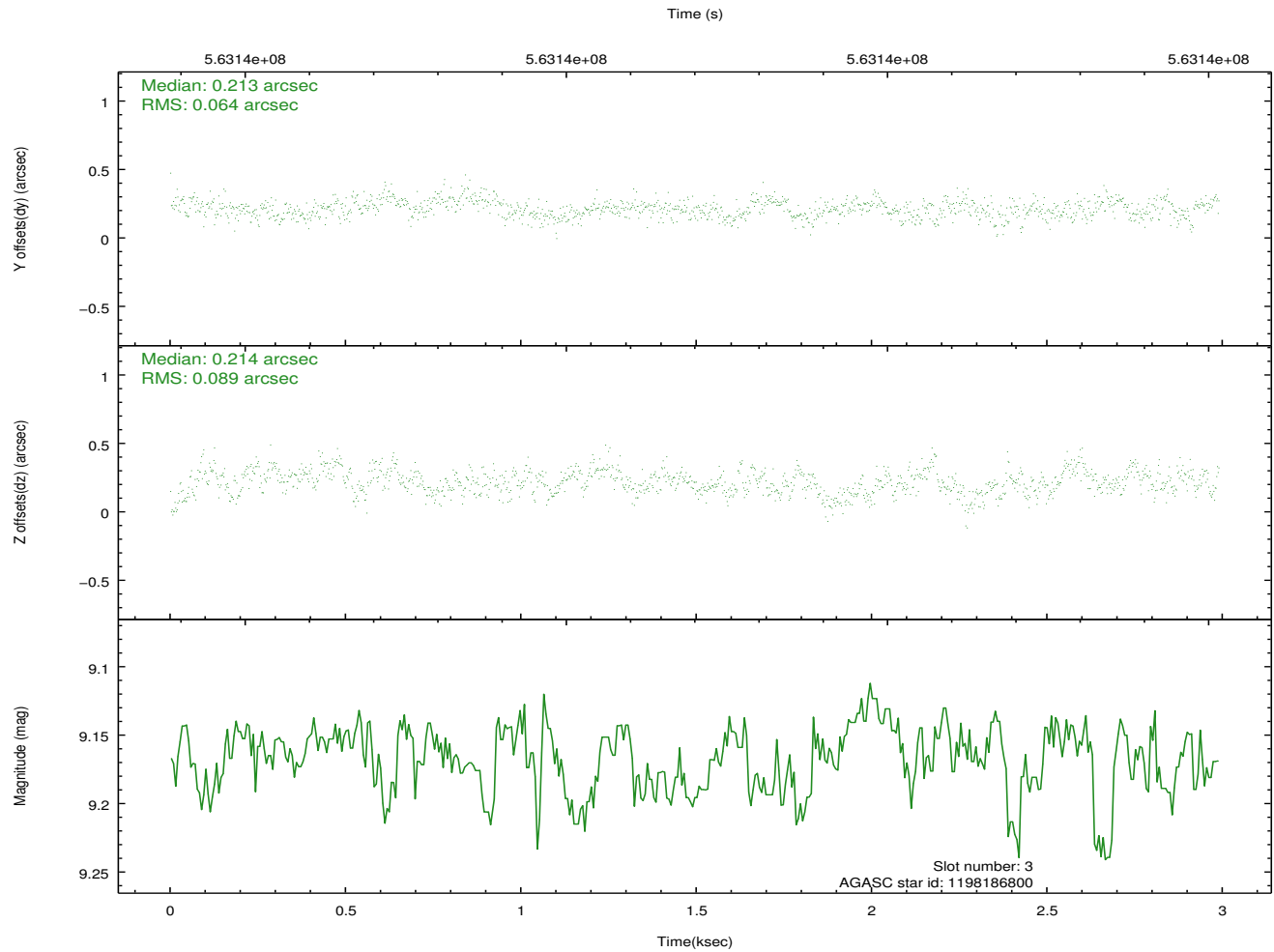
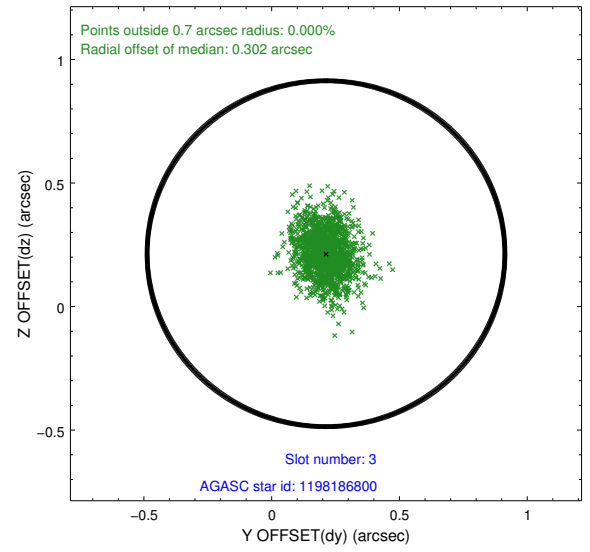
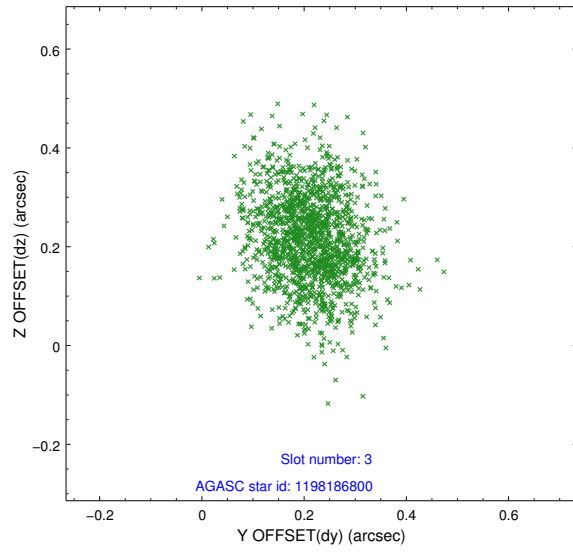


Slot Statistics

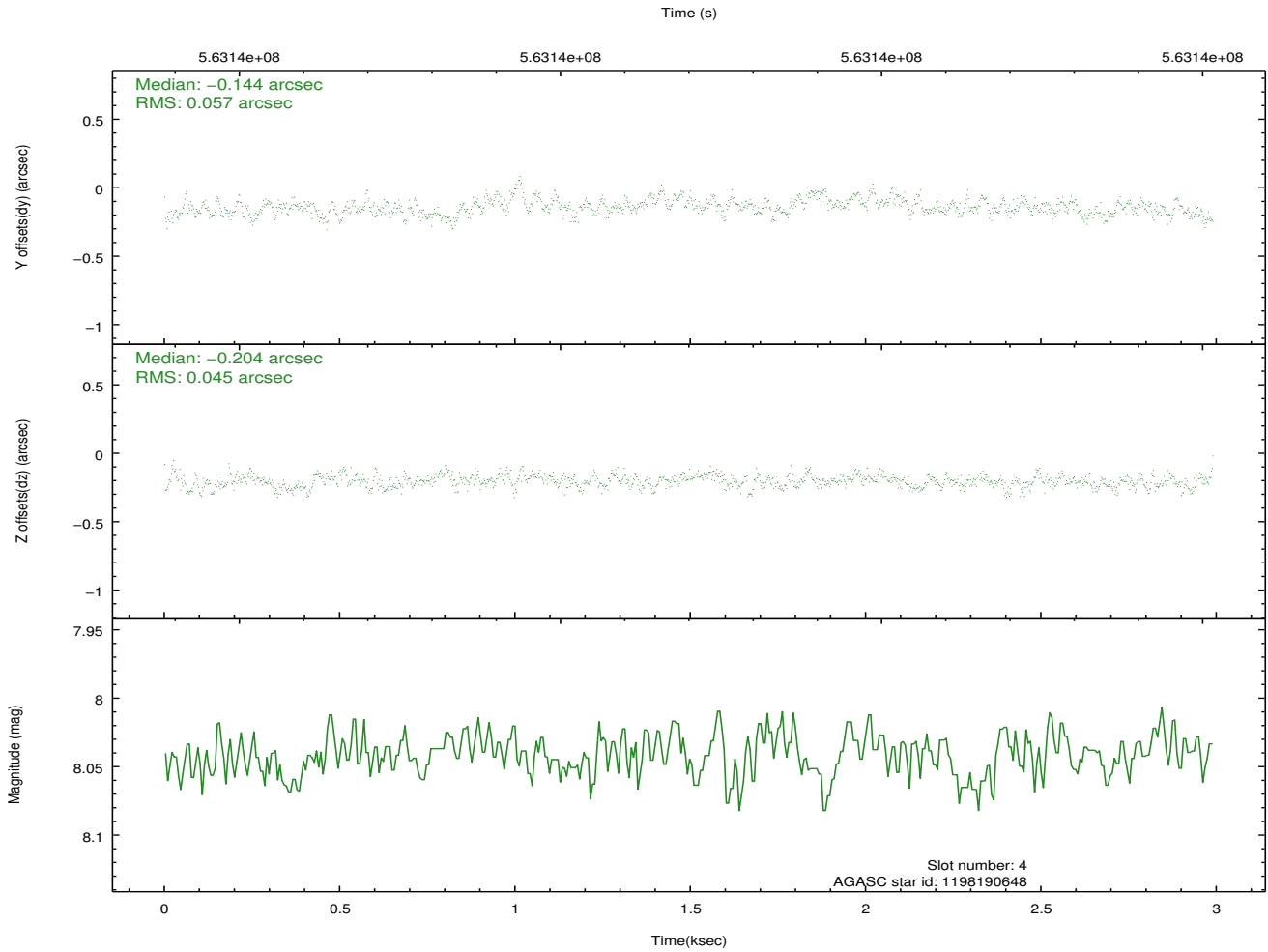
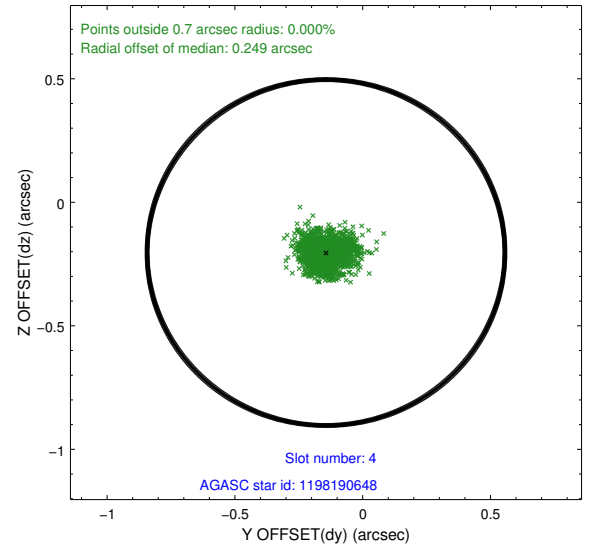
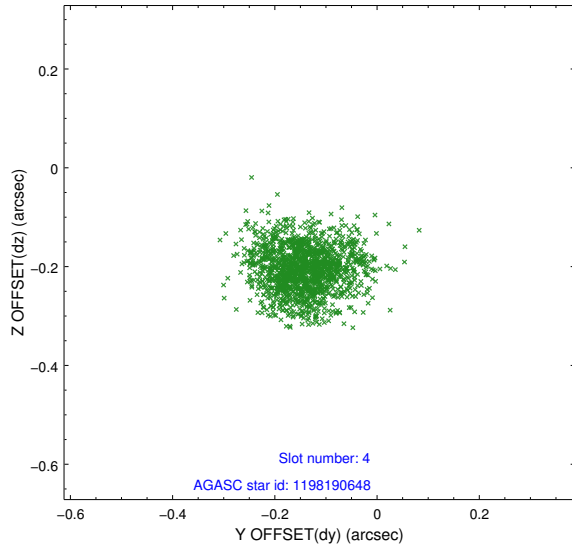
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-1	7.12	730	-0.005	-0.228	0.009	0.018	0.000000	0.000000	-1165.37	-469.53
1	FID		HRC-S-2	7.10	730	0.347	-0.135	0.005	0.010	0.000000	0.000000	1233.05	-462.71
2	FID		HRC-S-3	7.10	729	0.048	0.061	0.010	0.017	0.000000	0.000000	-1166.35	559.64
3	GUIDE	used	1198186800	9.17	1456	0.213	0.214	0.114	0.191	13.428368	-74.332597	898.26	-2137.58
4	GUIDE	used	1198190648	8.04	1459	-0.144	-0.204	0.078	0.123	12.344115	-73.478663	-1436.54	133.55
5	GUIDE	used	1198191248	8.32	1459	-0.052	-0.269	0.084	0.144	15.995132	-73.462457	1921.44	1776.92
6	GUIDE	used	1198191824	9.33	1458	-0.028	0.247	0.120	0.191	11.519918	-73.478175	-2186.47	-248.24
7	GUIDE	used	1198192456	8.57	1458	0.010	0.017	0.104	0.171	13.422921	-73.869405	164.29	-639.82

2.4 Star Slots

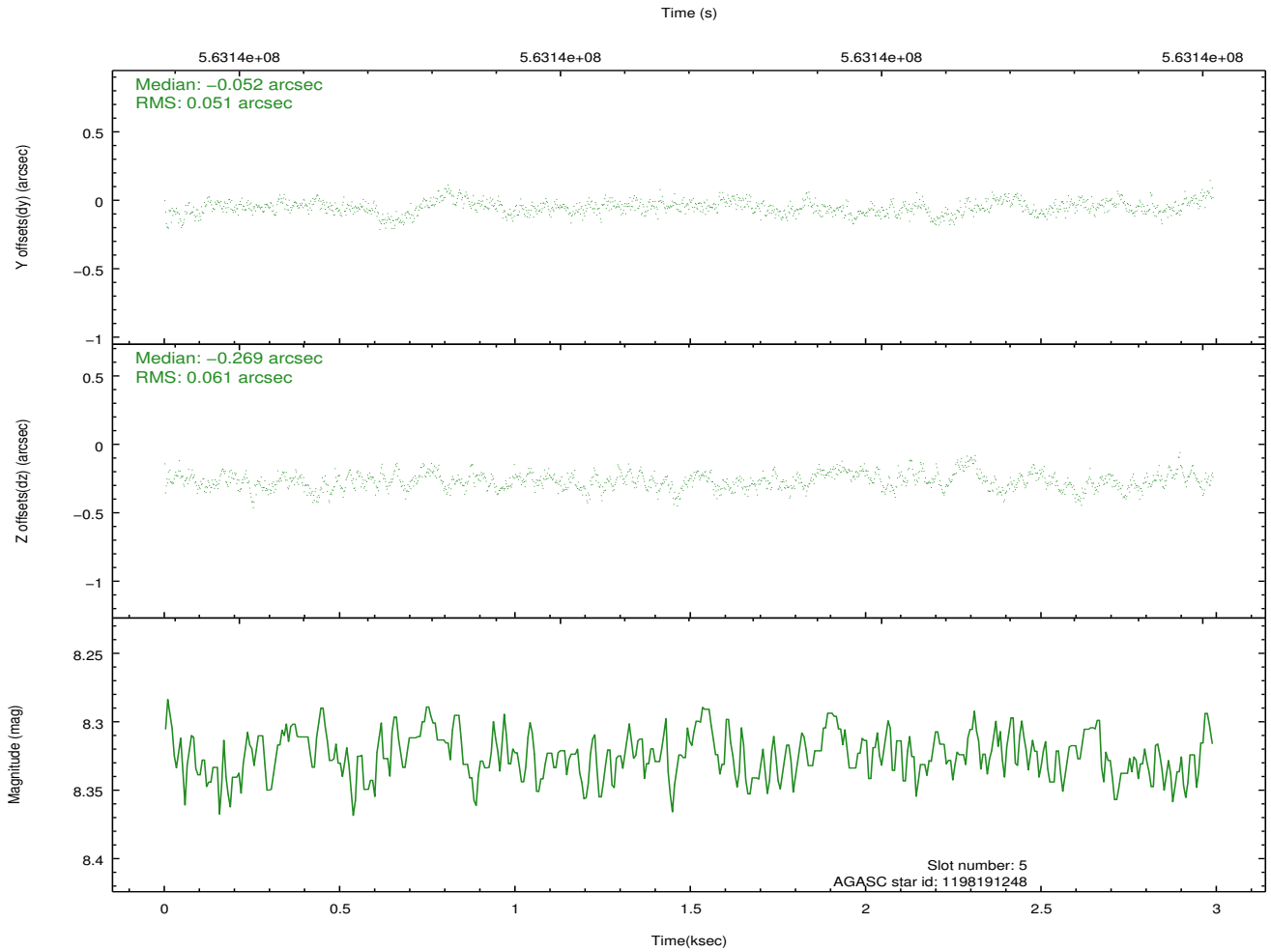
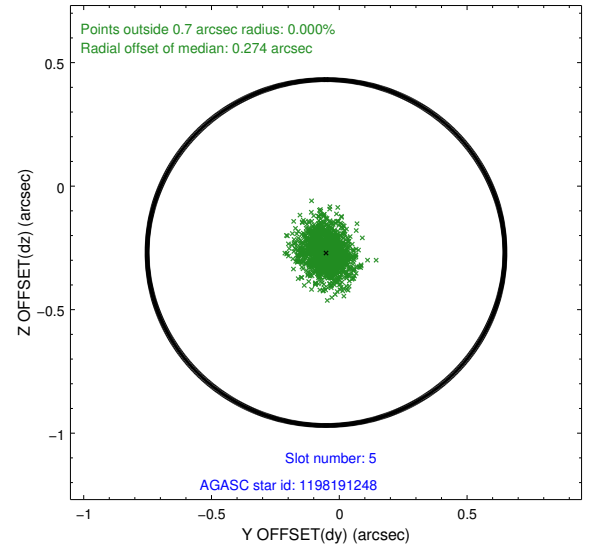
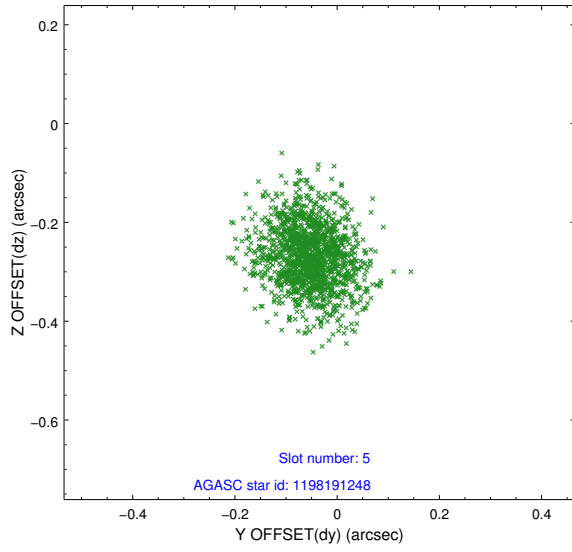
2.4.1 Slot 3



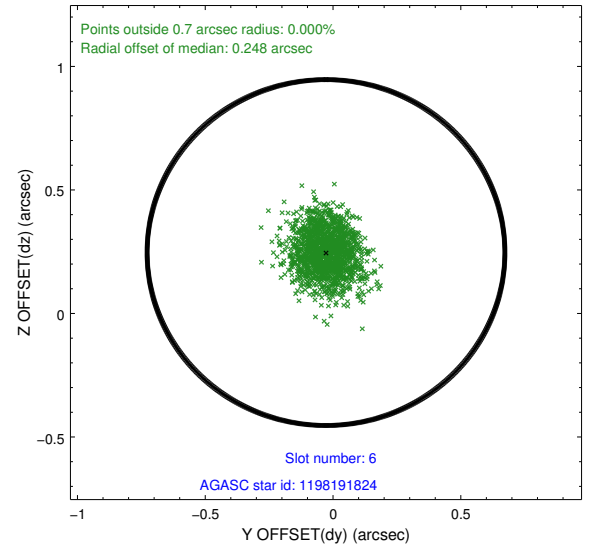
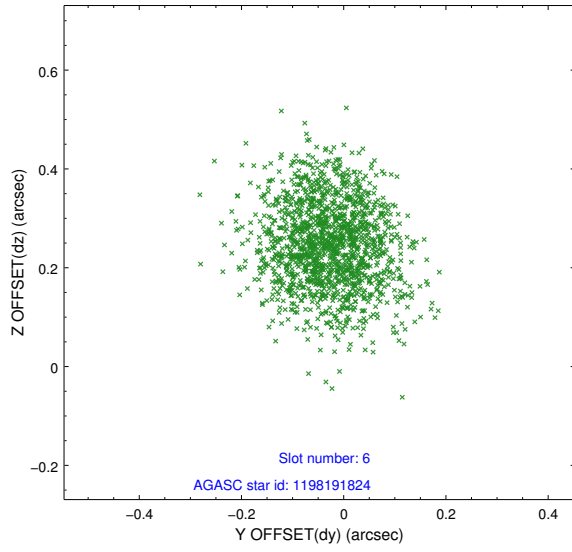
2.4.2 Slot 4



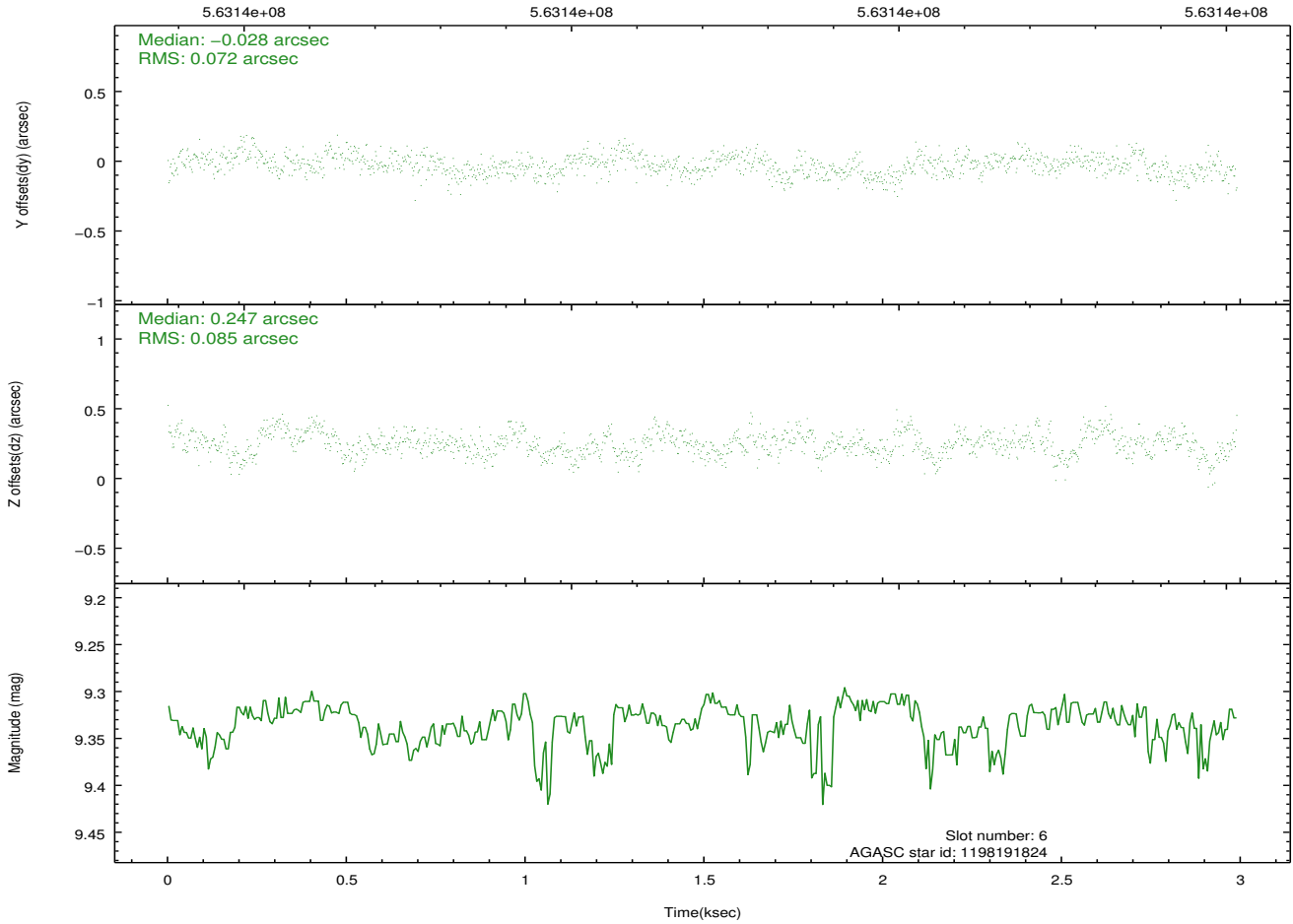
2.4.3 Slot 5



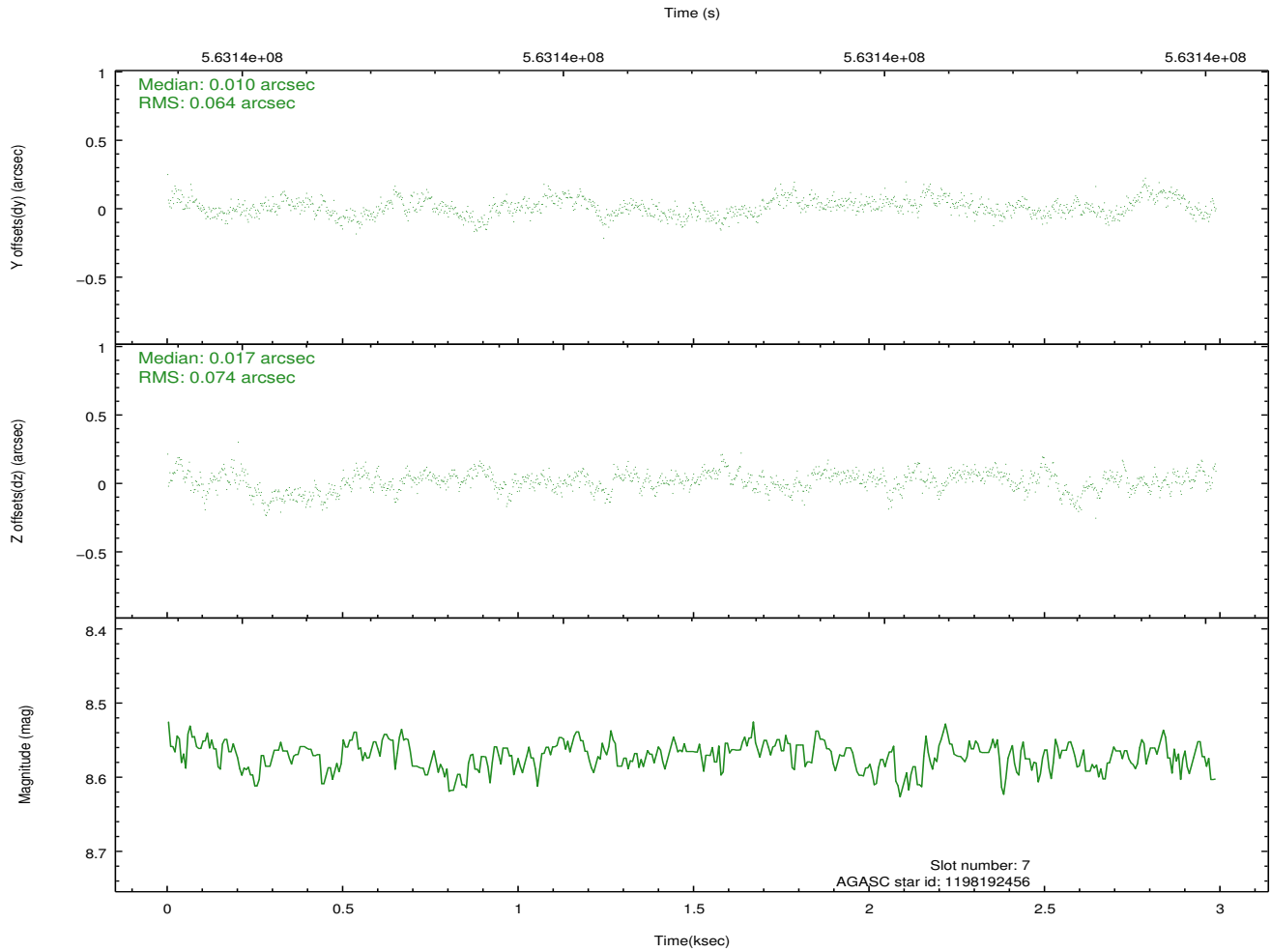
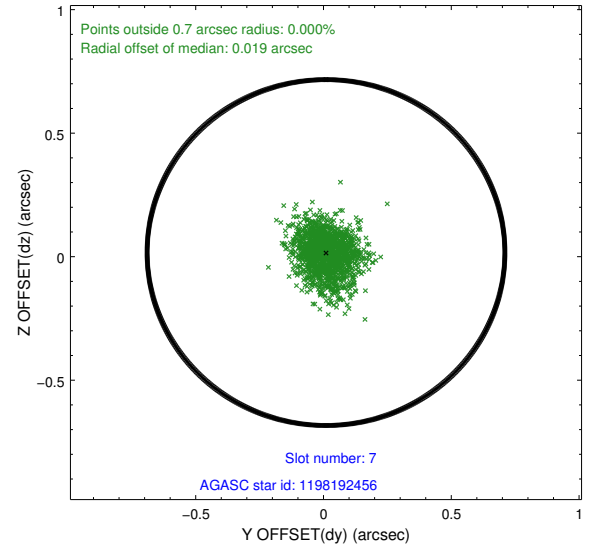
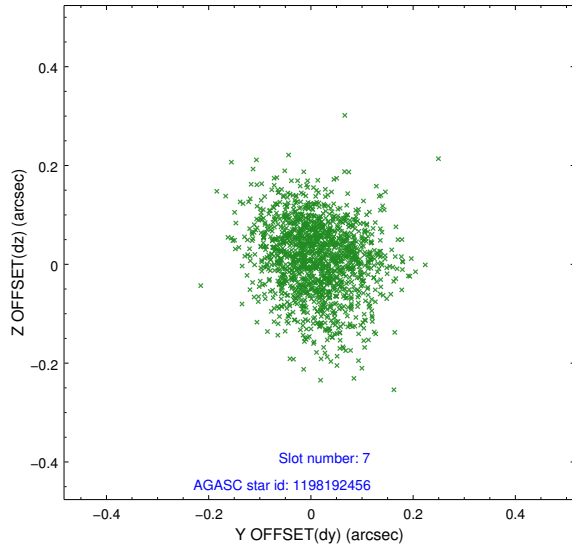
2.4.4 Slot 6



Time (s)

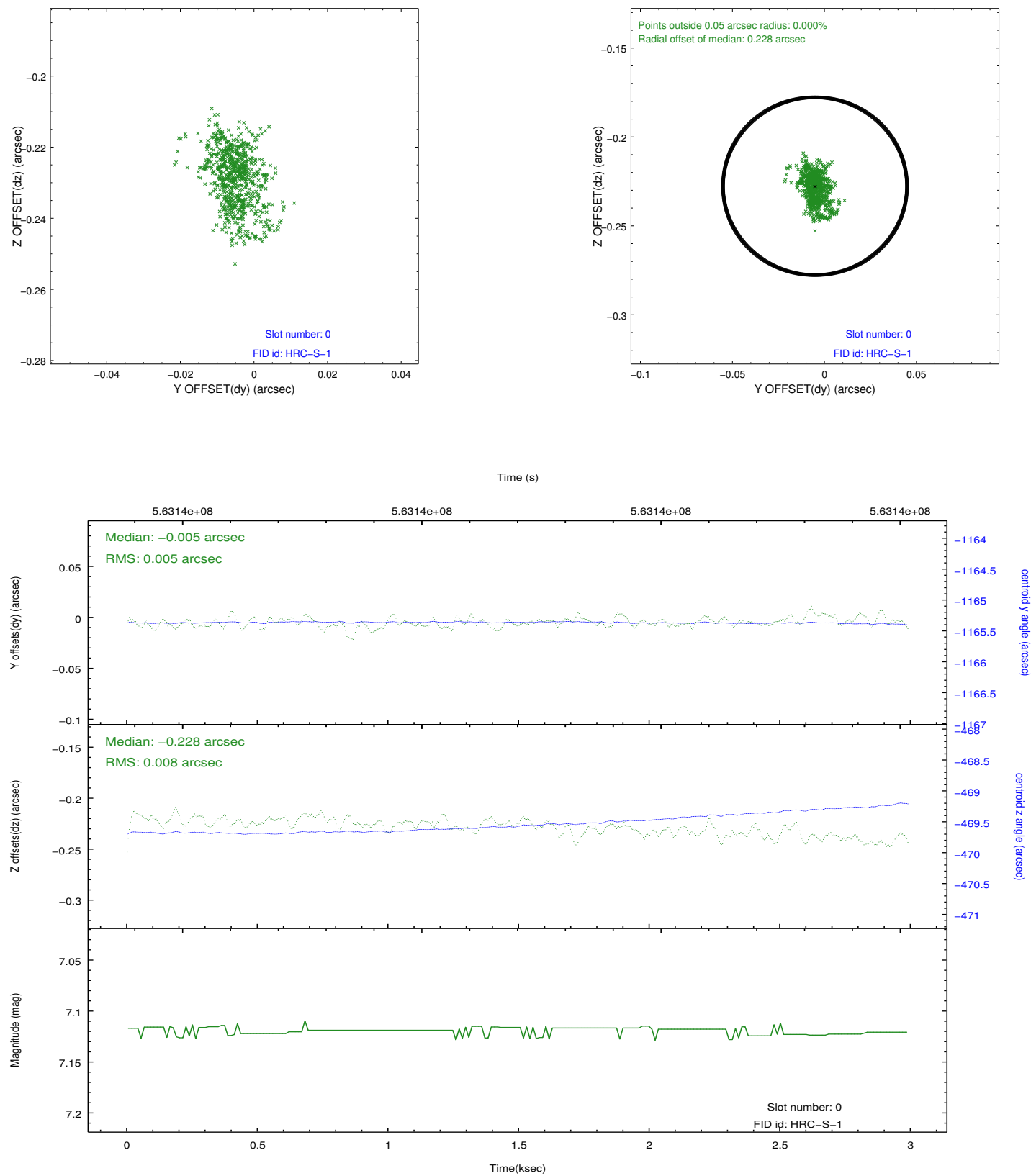


2.4.5 Slot 7

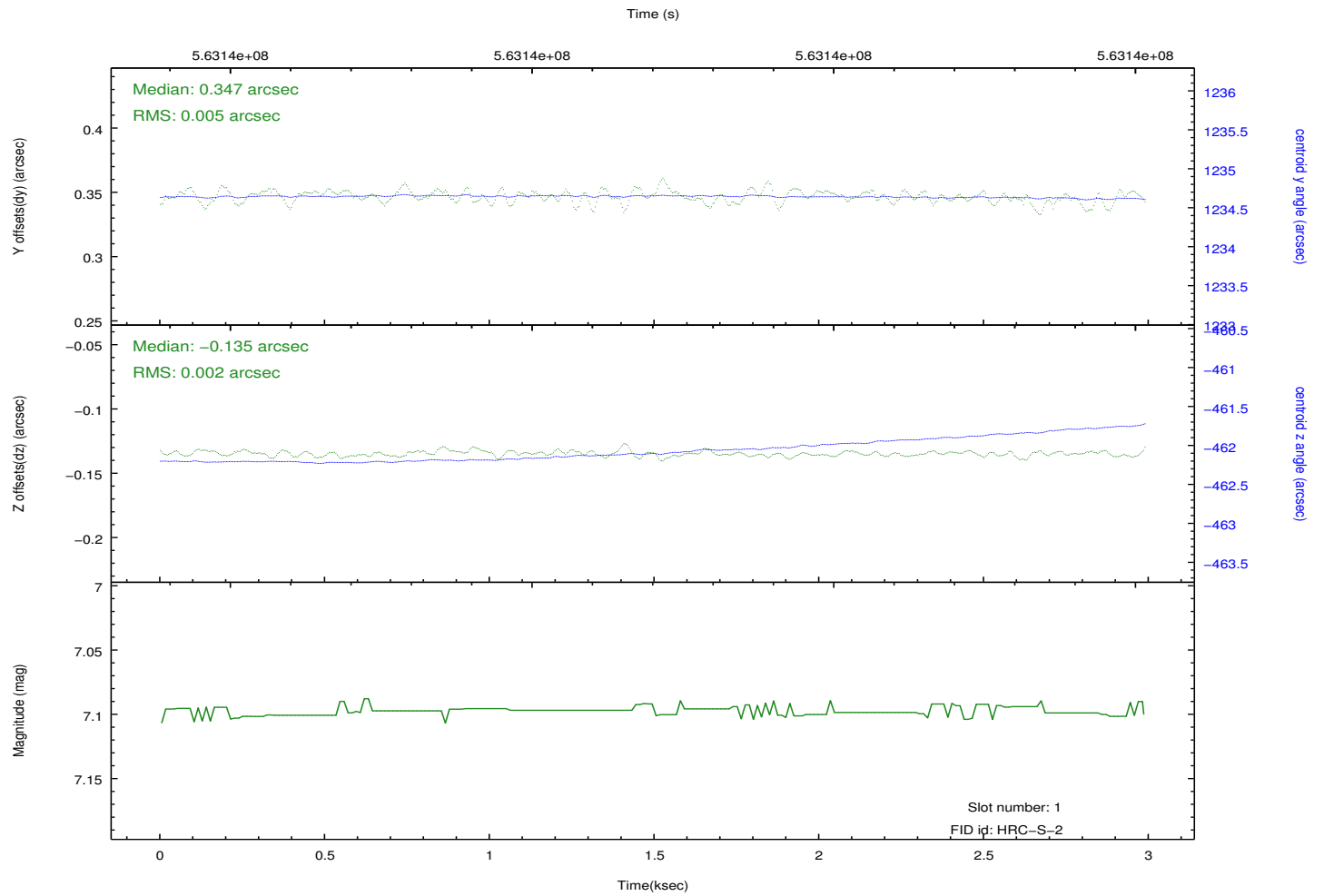
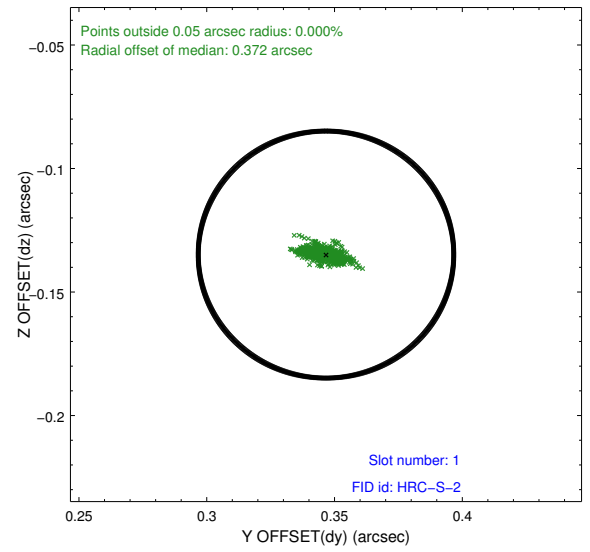
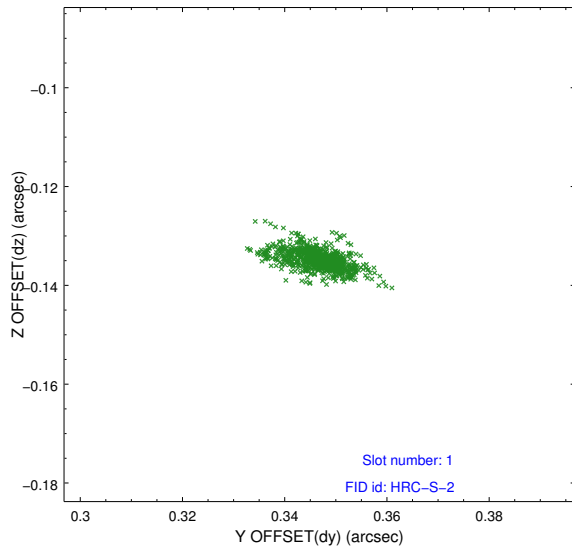


2.5 FID Slots

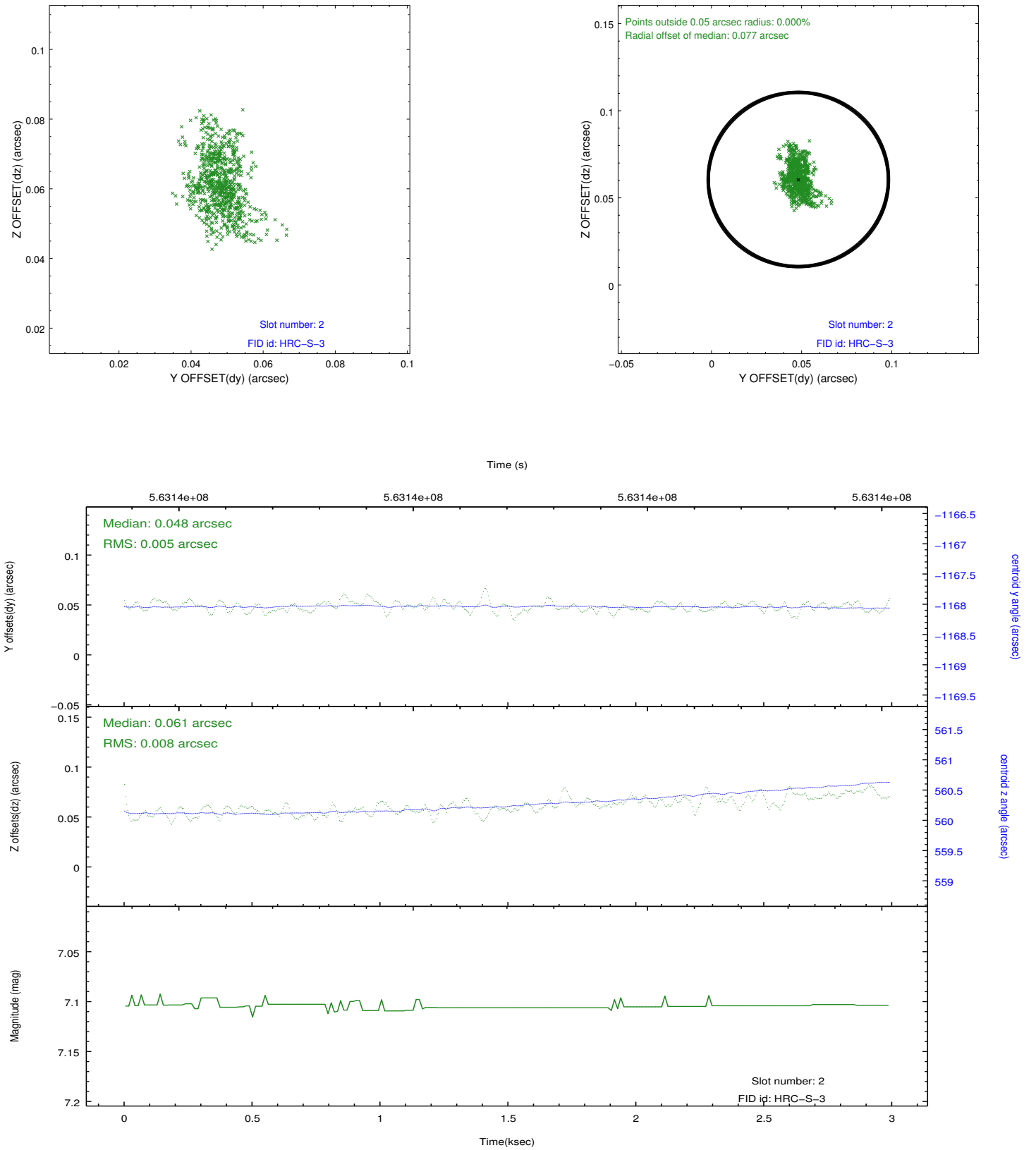
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2015.11.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.9389314165115

A.2 Comments