

V&V Reference Report

L2 ASCDS Version : 10.3.3

Observation 17380 - L2 Version 1
Chandra X-Ray Center

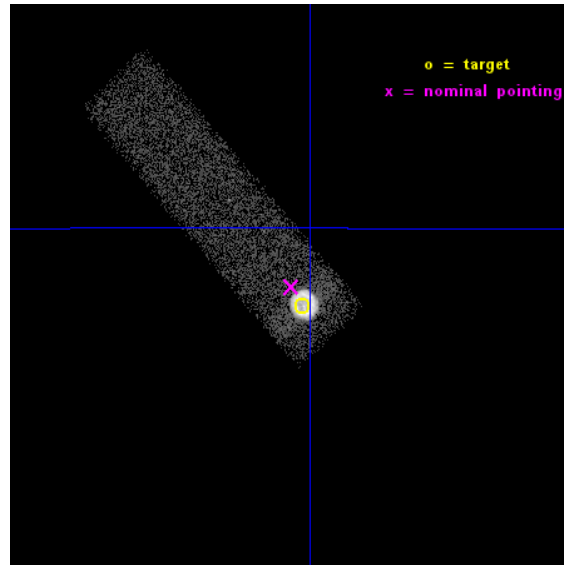
L2 Processing Date : Mar 1 2015

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	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

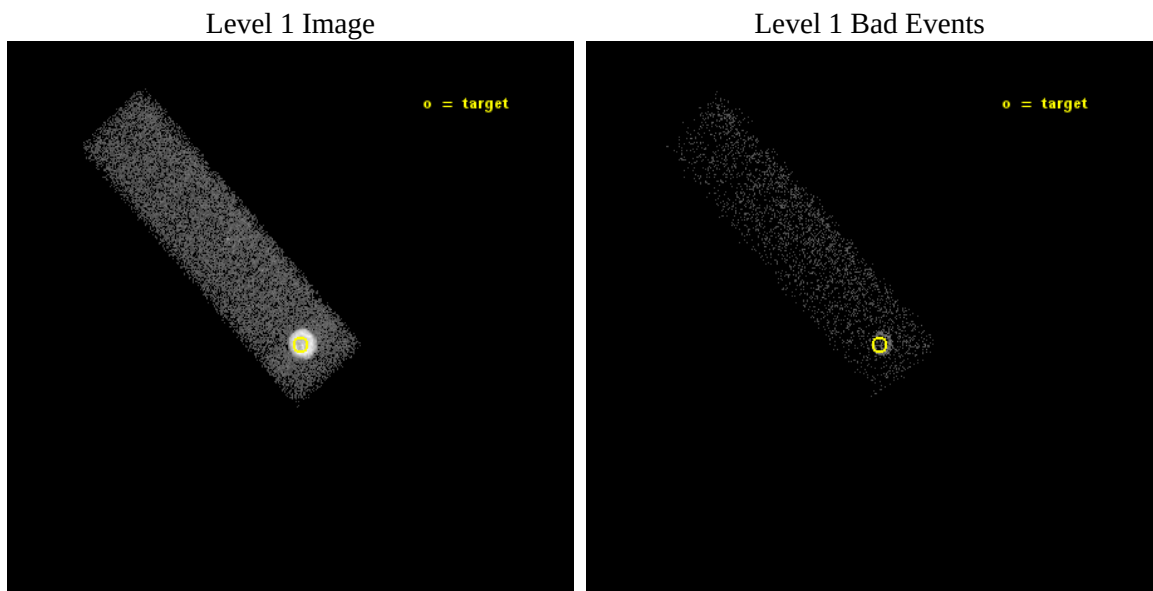
seq_num	590539	Sequence number
obs_id	17380	Observation id
title	AO-16 Calibration Observations of E0102-72	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	E0102-72 S3,-120,1,0,0	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA [deg]
dec_targ	-72.032028	Observer's specified target Dec [deg]
ra_nom	16.025949422954	Nominal RA [deg]
dec_nom	-72.02420798867	Nominal Dec [deg]
roll_nom	228.17181699896	Nominal Roll [deg]
revision	1	Processing version of data
ontime	18560.625451326	Sum of GTIs [s]
livetime	17654.927662253	Livetime [s]
ontime7	18560.625451326	Sum of GTIs [s]
l2events	80555	Number of level 2 events



2 OBI

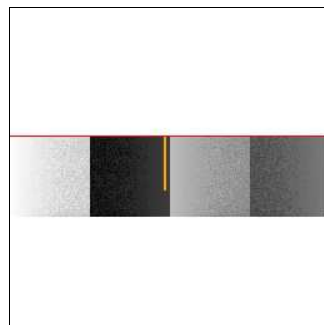
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	18500.000000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	18560.625451326	Sum of GTIs [s]
caldsver	4.6.7	 	ontime7	18560.625451326	Sum of GTIs [s]
date	2015-03-01T12:01:40	Date and time of file creation	l1events	93956	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

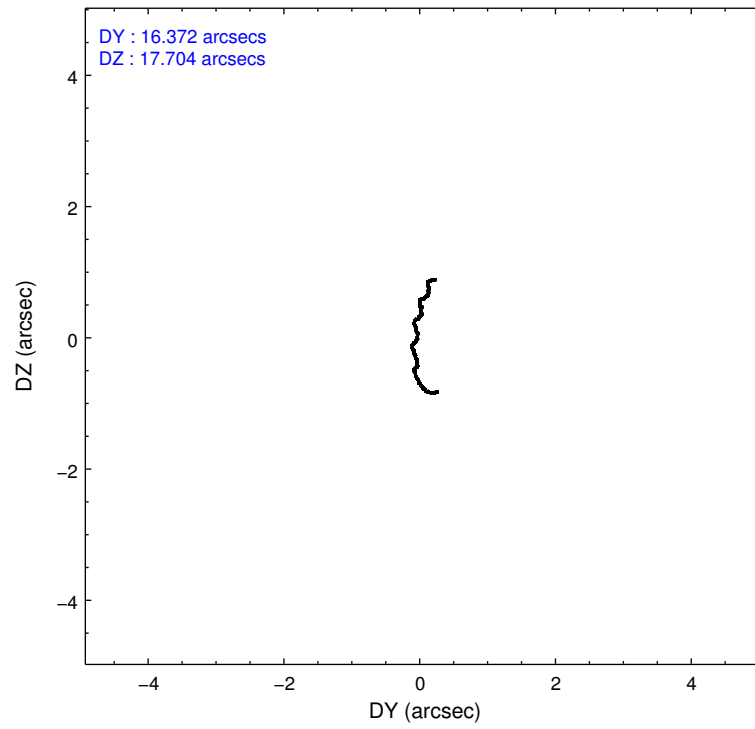
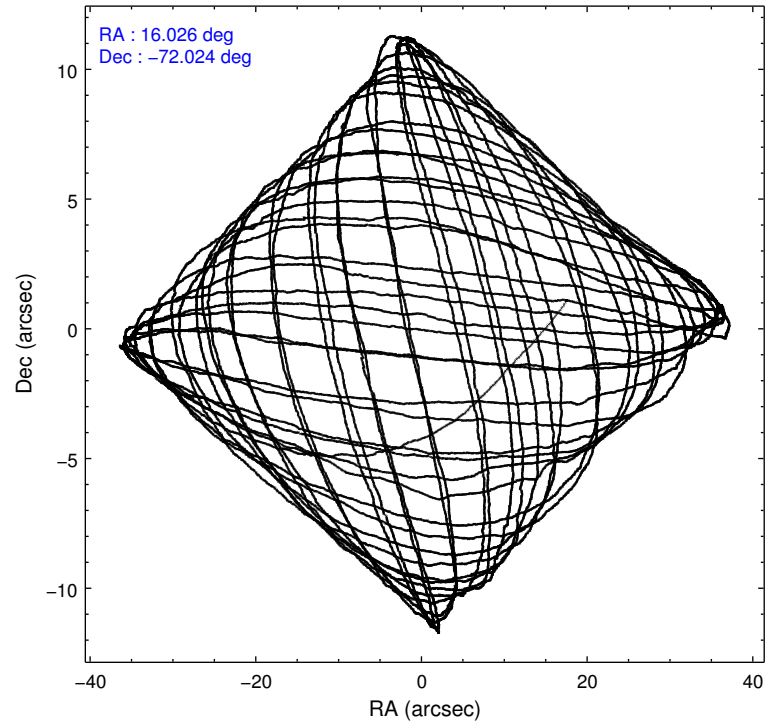
	ccd 7
level 1 events	93956
rejected events	12913
rejected %	13%

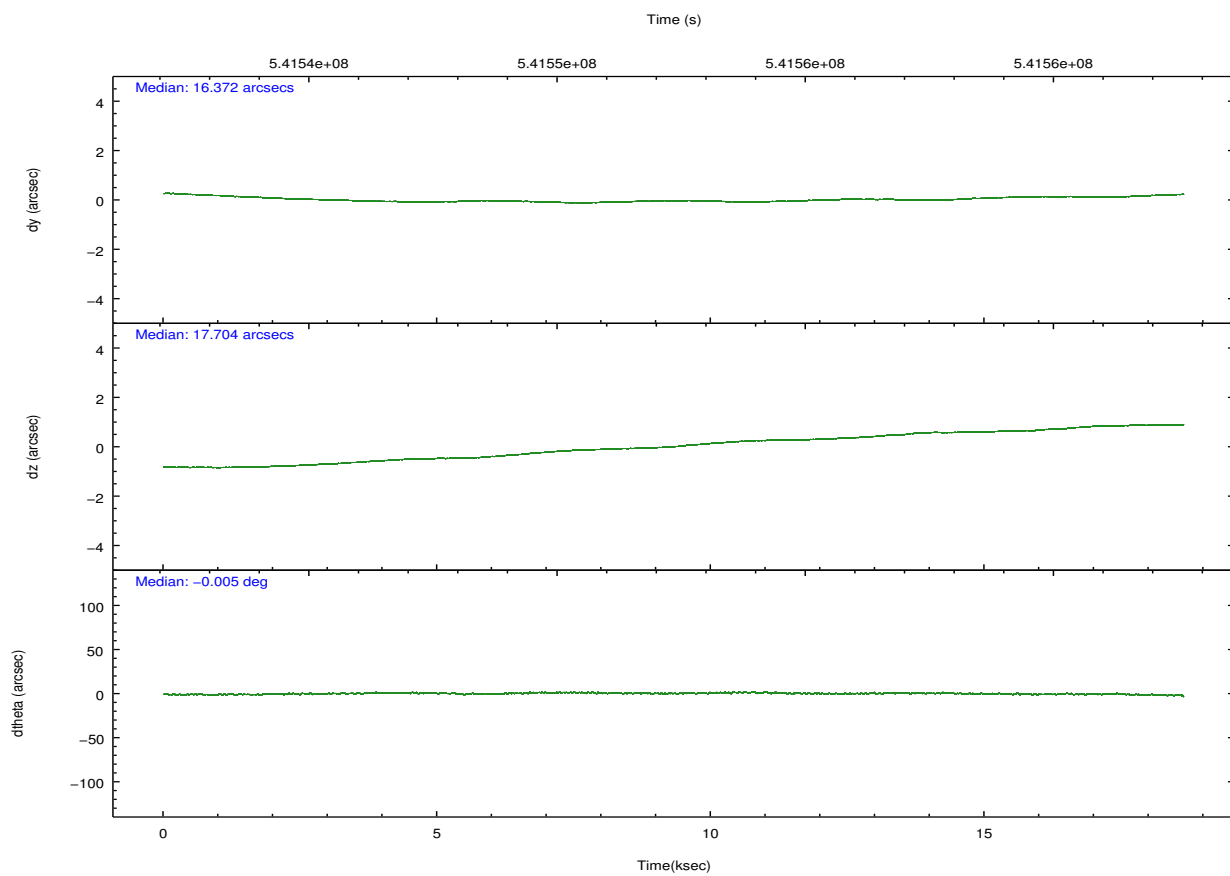
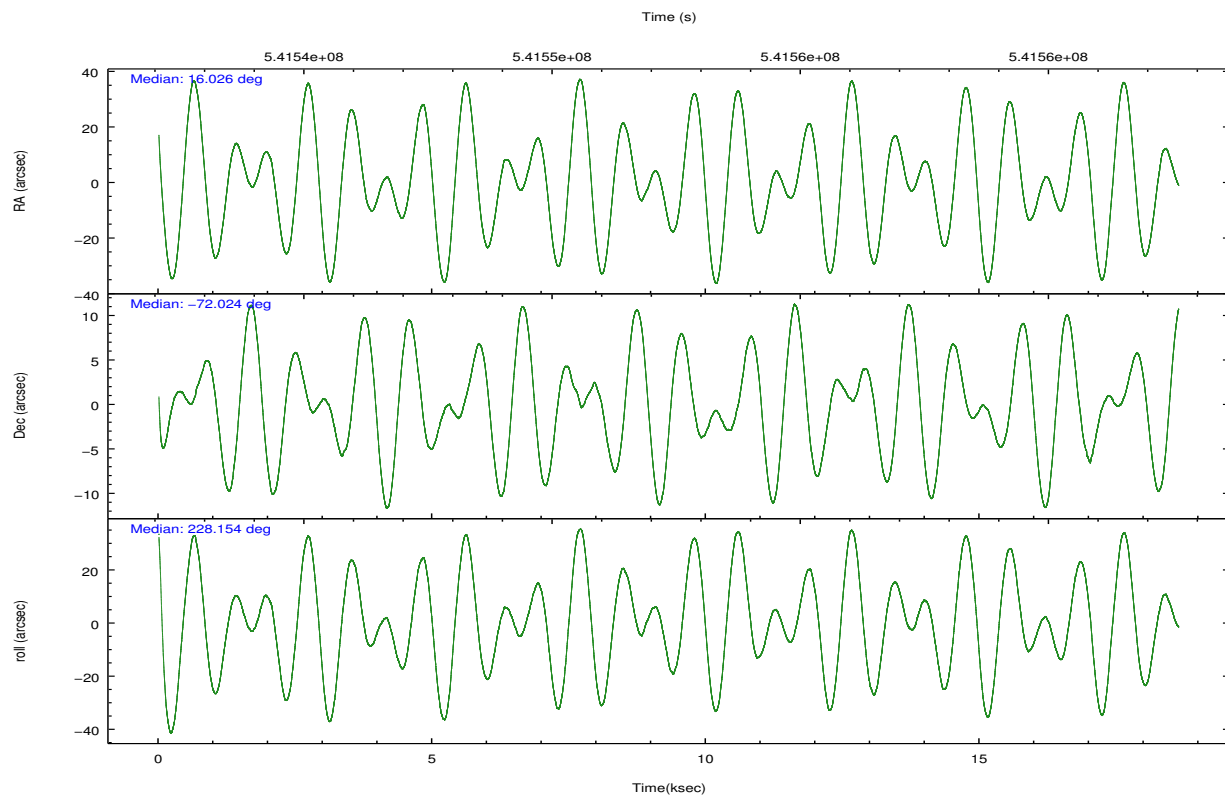
	ccd 7
grade 0 events	21877
	23%
grade 1 events	79
	0%
grade 2 events	22059
	23%
grade 3 events	9899
	10%
grade 4 events	9514
	10%
grade 5 events	3209
	3%
grade 6 events	17698
	18%
grade 7 events	9621
	10%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	16.043049	16.02594942295397	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-71.997259	-72.02420798867036	Subarray start row	360	360
[deg] Pointing Roll	228.031441	228.1718169989598	Subarray row count	256	256
[s] Window start time (MET)	539136067.184000	539136067.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	544147267.184000	544147267.184000	[s] Primary exposure time	0.000000	0.8
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	541543189.184000	541541907.5984499			
Observation start date	2015-02-28T20:38:42	2015-02-28T20:18:27			
[s] Observation end time (MET)	541561689.184000	541562608.4996099			
Observation end date	2015-03-01T01:47:02	2015-03-01T02:03:28			
Read mode	TIMED	TIMED			

2.3 Aspect



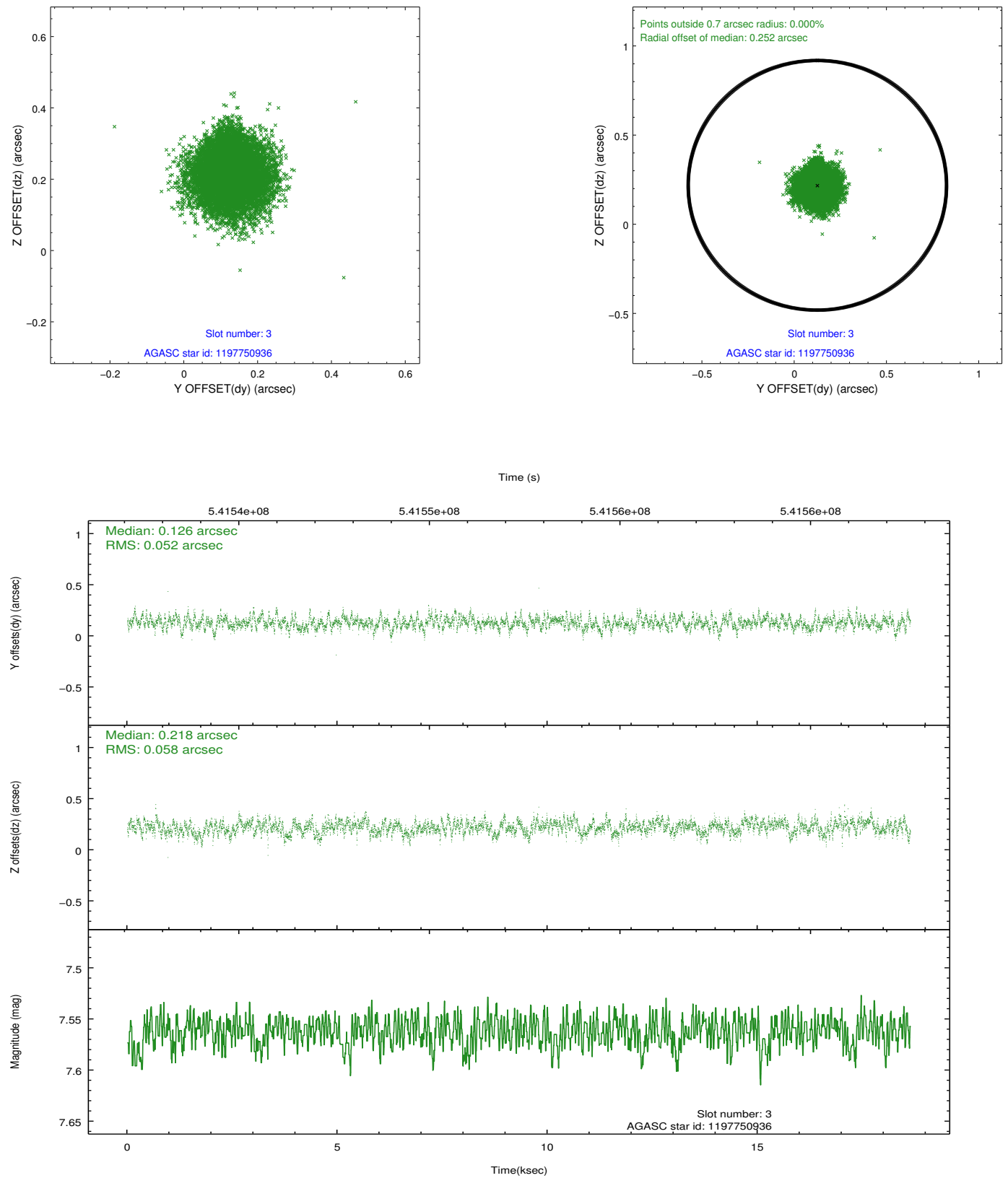


Slot Statistics

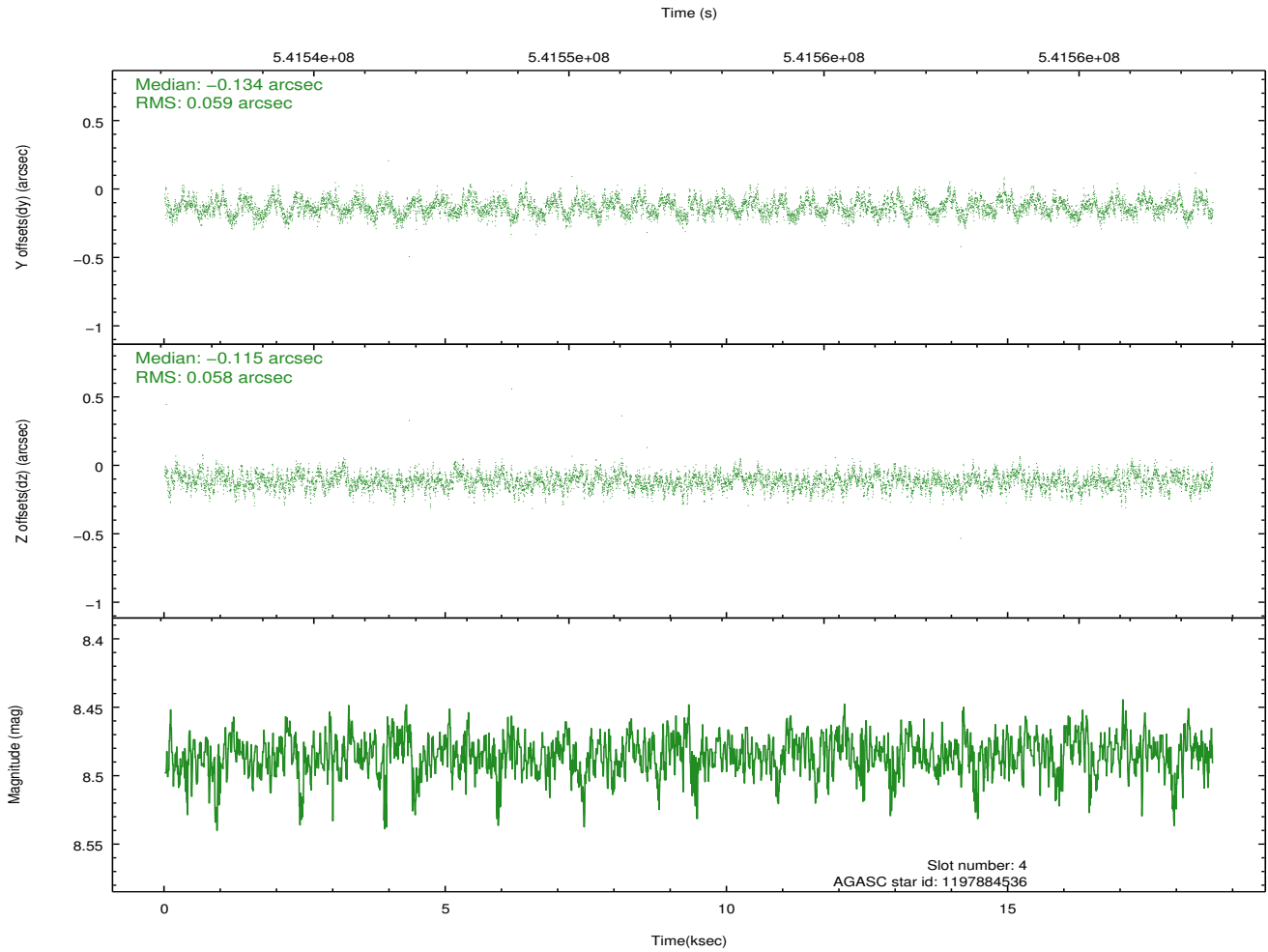
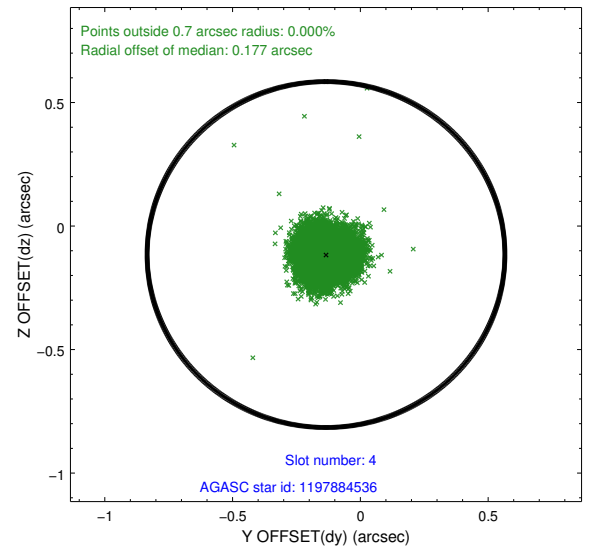
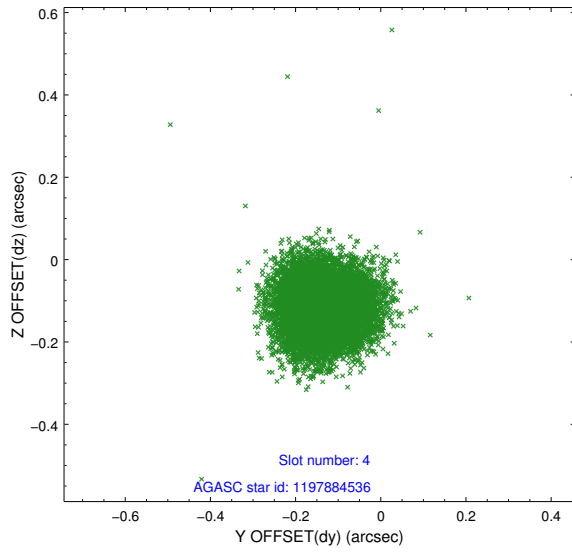
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-4	7.14	4544	0.254	0.010	0.013	0.021	0.000000	0.000000	2144.20	169.50
1	FID		ACIS-S-5	7.17	4546	-0.271	0.011	0.011	0.020	0.000000	0.000000	-1822.24	163.00
2	FID		ACIS-S-6	7.28	4545	-0.011	-0.007	0.016	0.030	0.000000	0.000000	391.96	806.73
3	GUIDE	used	1197750936	7.56	9089	0.126	0.218	0.083	0.132	15.387940	-71.549550	-694.88	-1629.10
4	GUIDE	used	1197884536	8.48	9090	-0.134	-0.115	0.088	0.138	17.160729	-71.835289	-1263.67	550.15
5	GUIDE	used	1197885104	9.33	9083	0.078	-0.110	0.157	0.257	17.845067	-72.189368	-789.64	1957.75
6	GUIDE	used	1197885328	7.26	9090	0.088	0.243	0.102	0.155	16.283090	-71.733943	-886.61	-430.91
7	GUIDE	used	1197884712	8.29	9085	-0.165	-0.221	0.093	0.150	16.087398	-72.252690	651.10	651.55

2.4 Star Slots

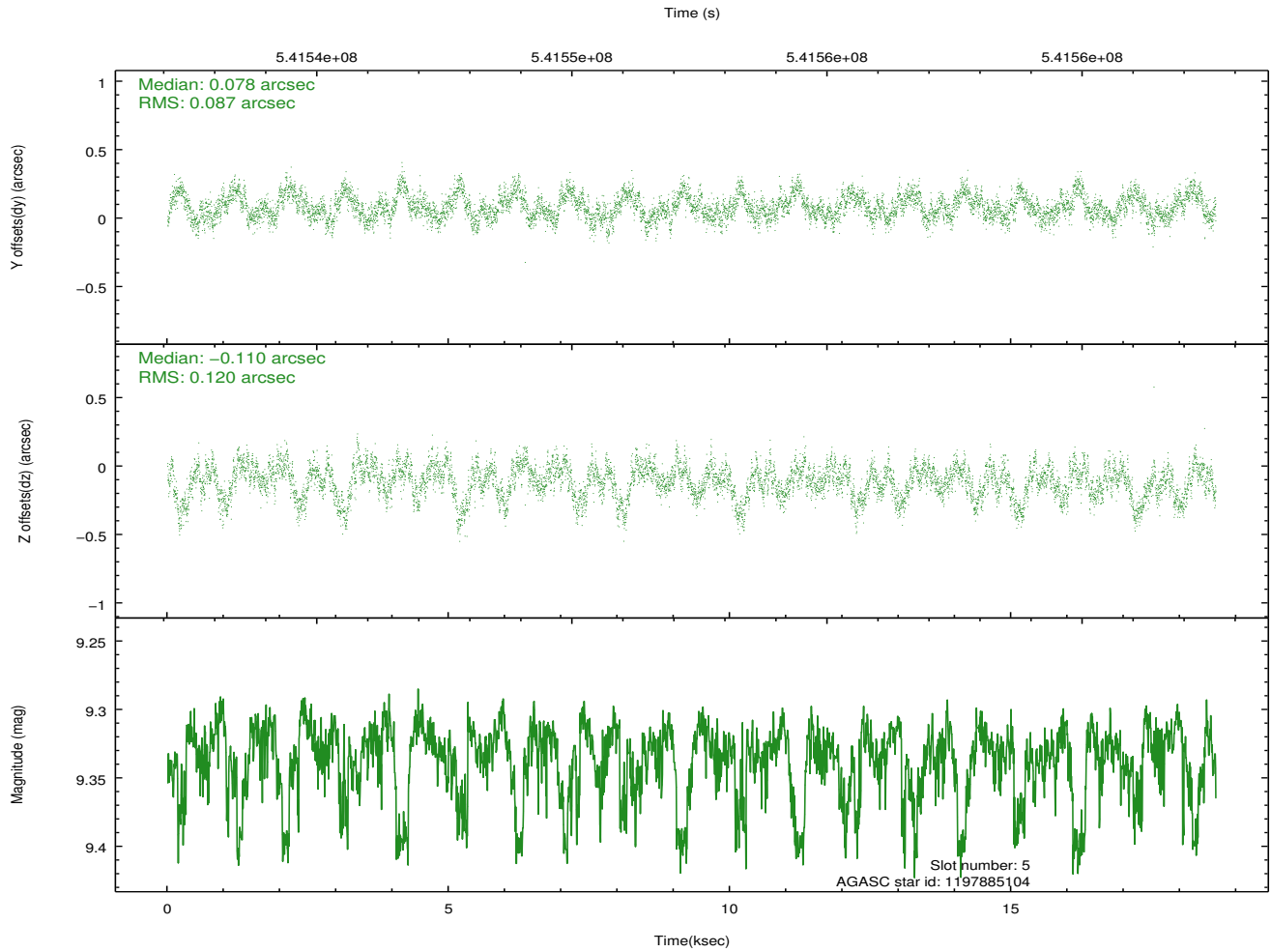
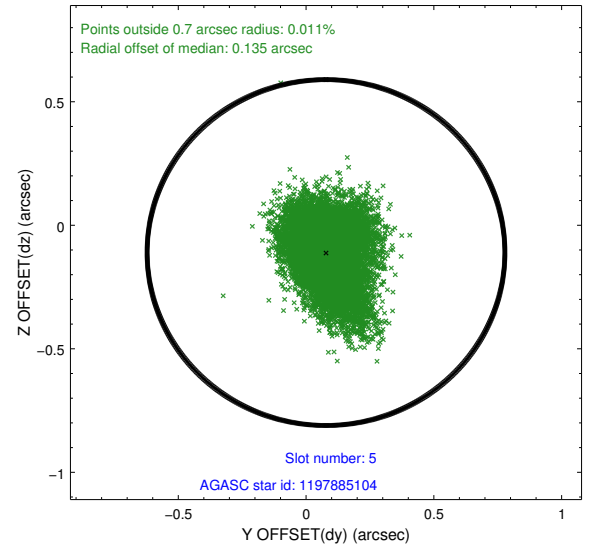
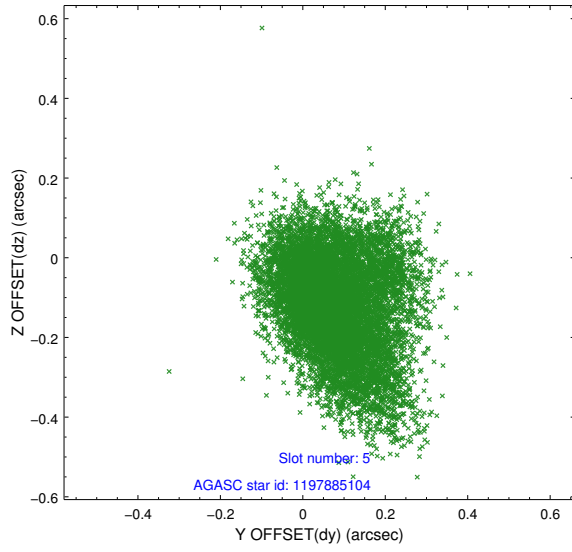
2.4.1 Slot 3



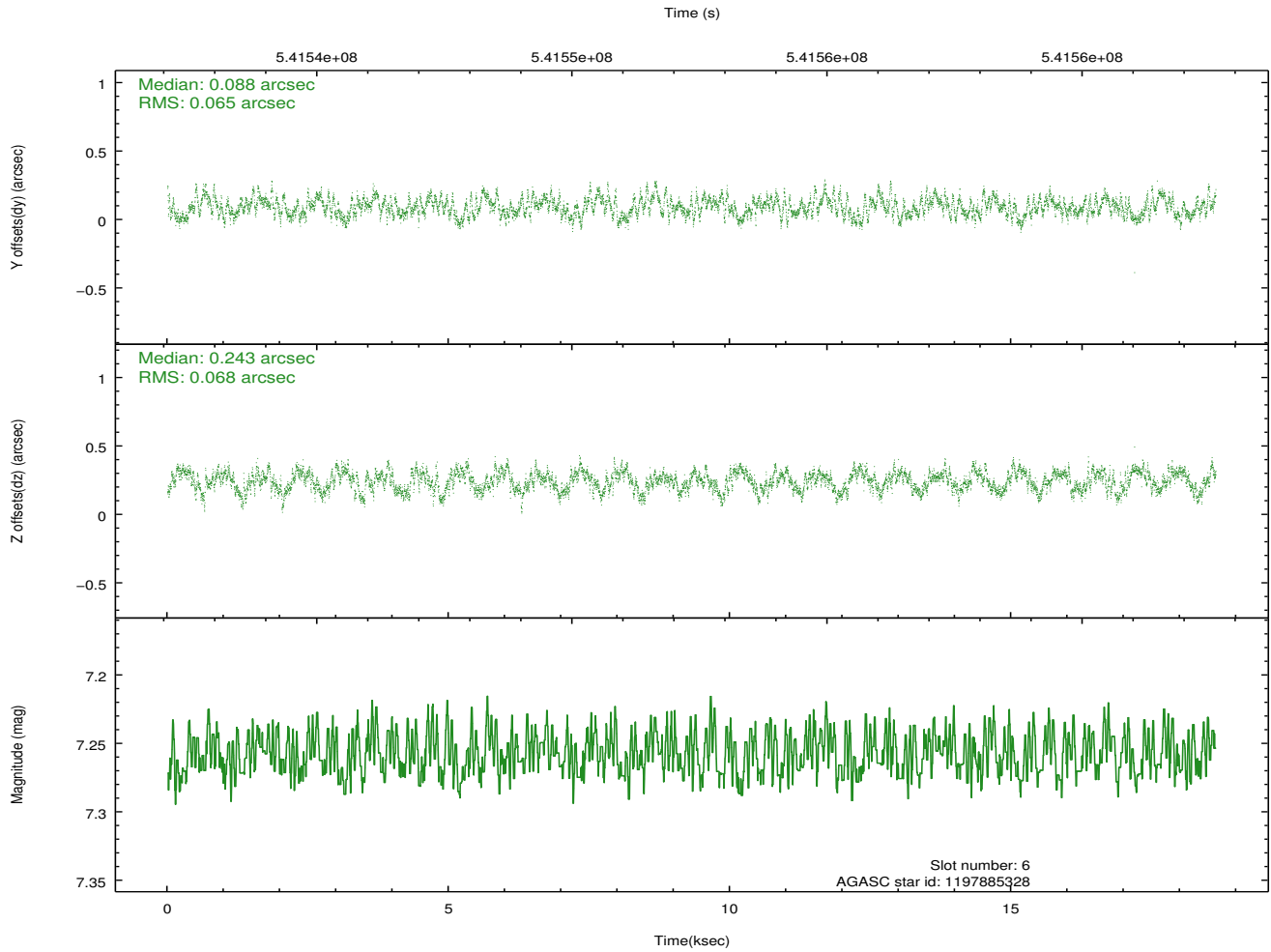
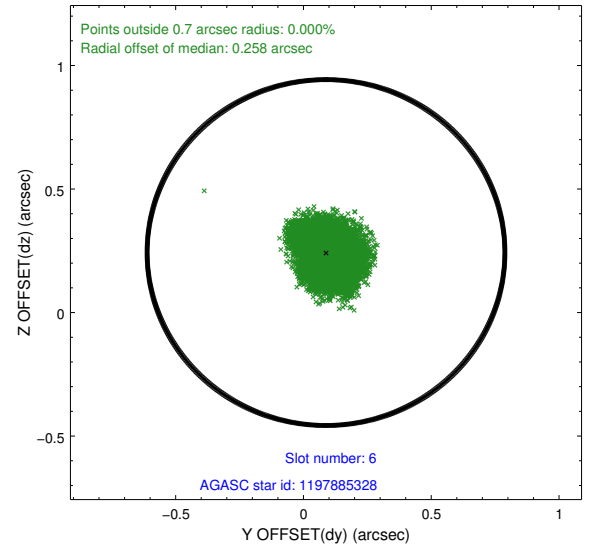
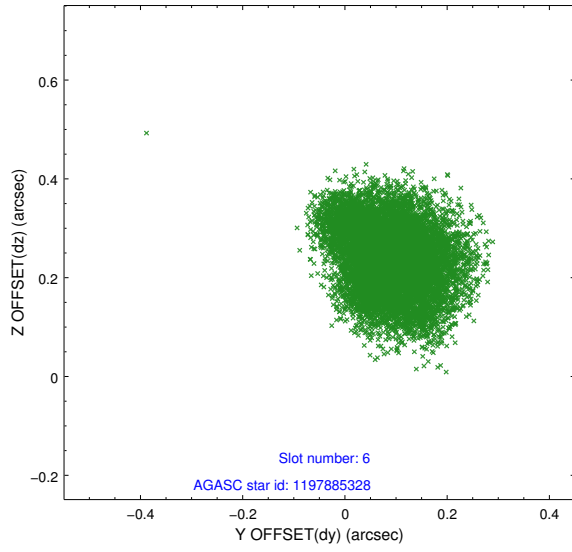
2.4.2 Slot 4



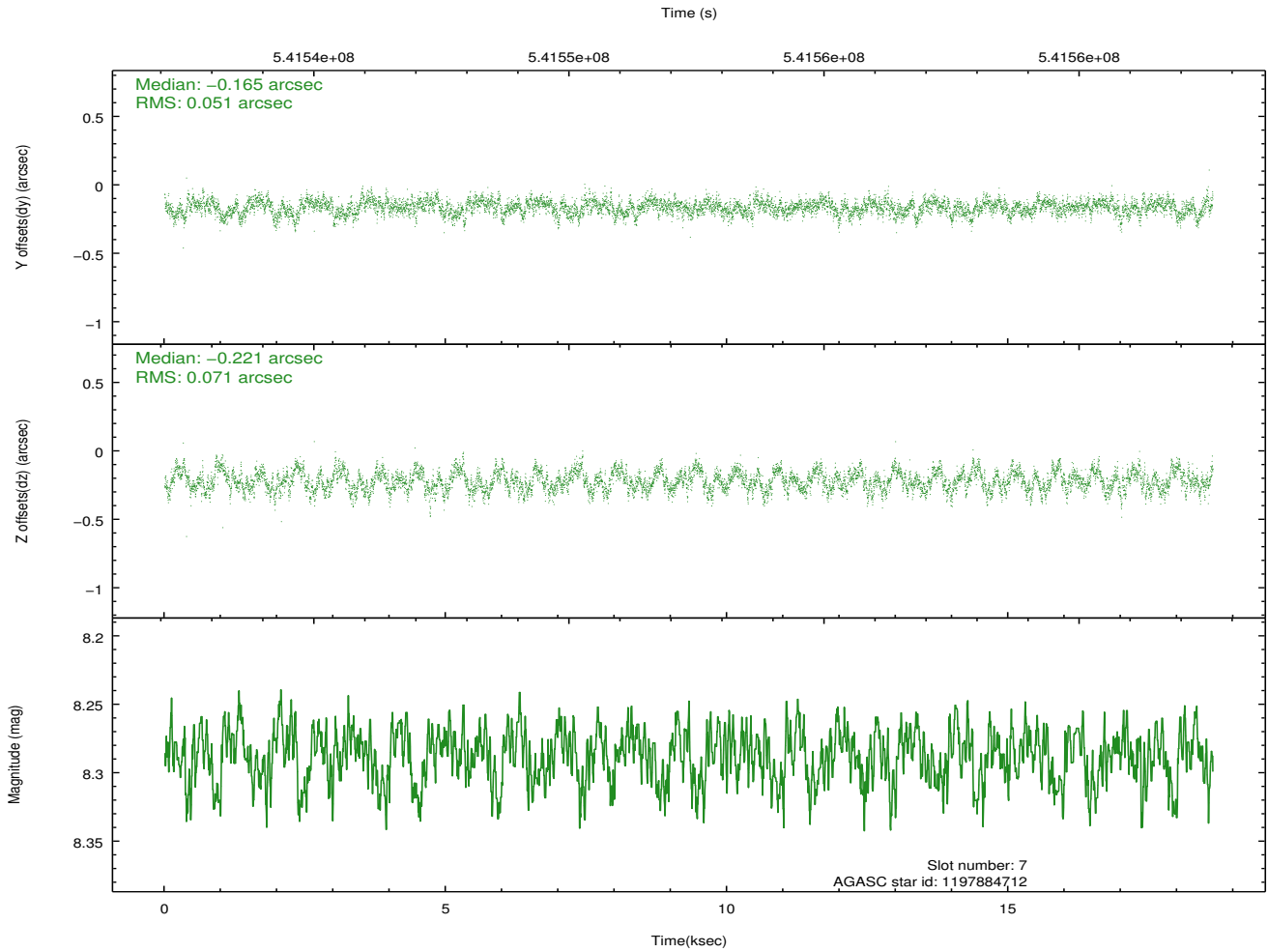
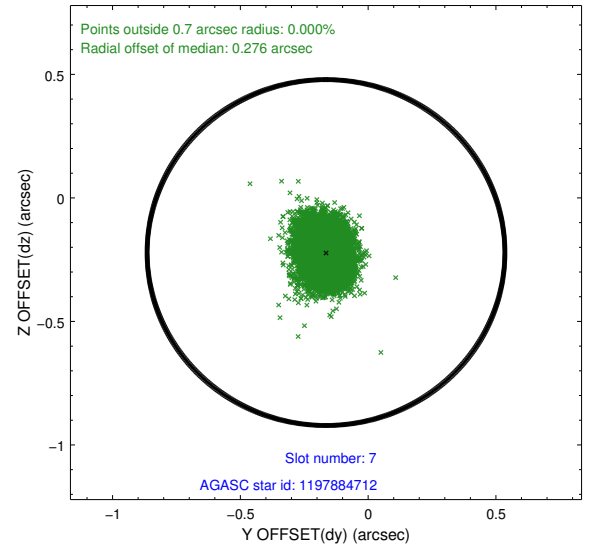
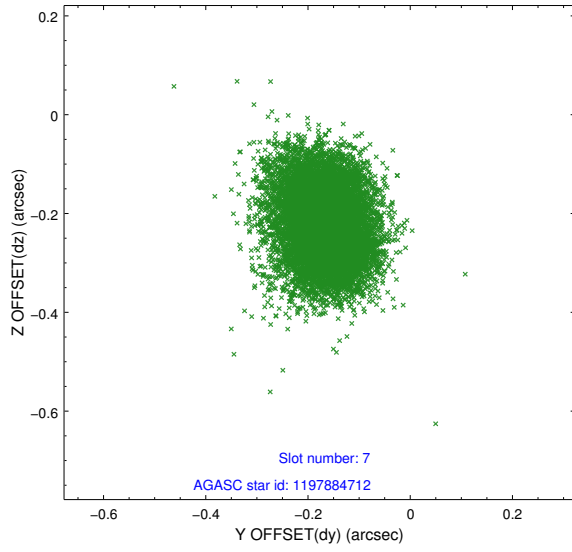
2.4.3 Slot 5



2.4.4 Slot 6

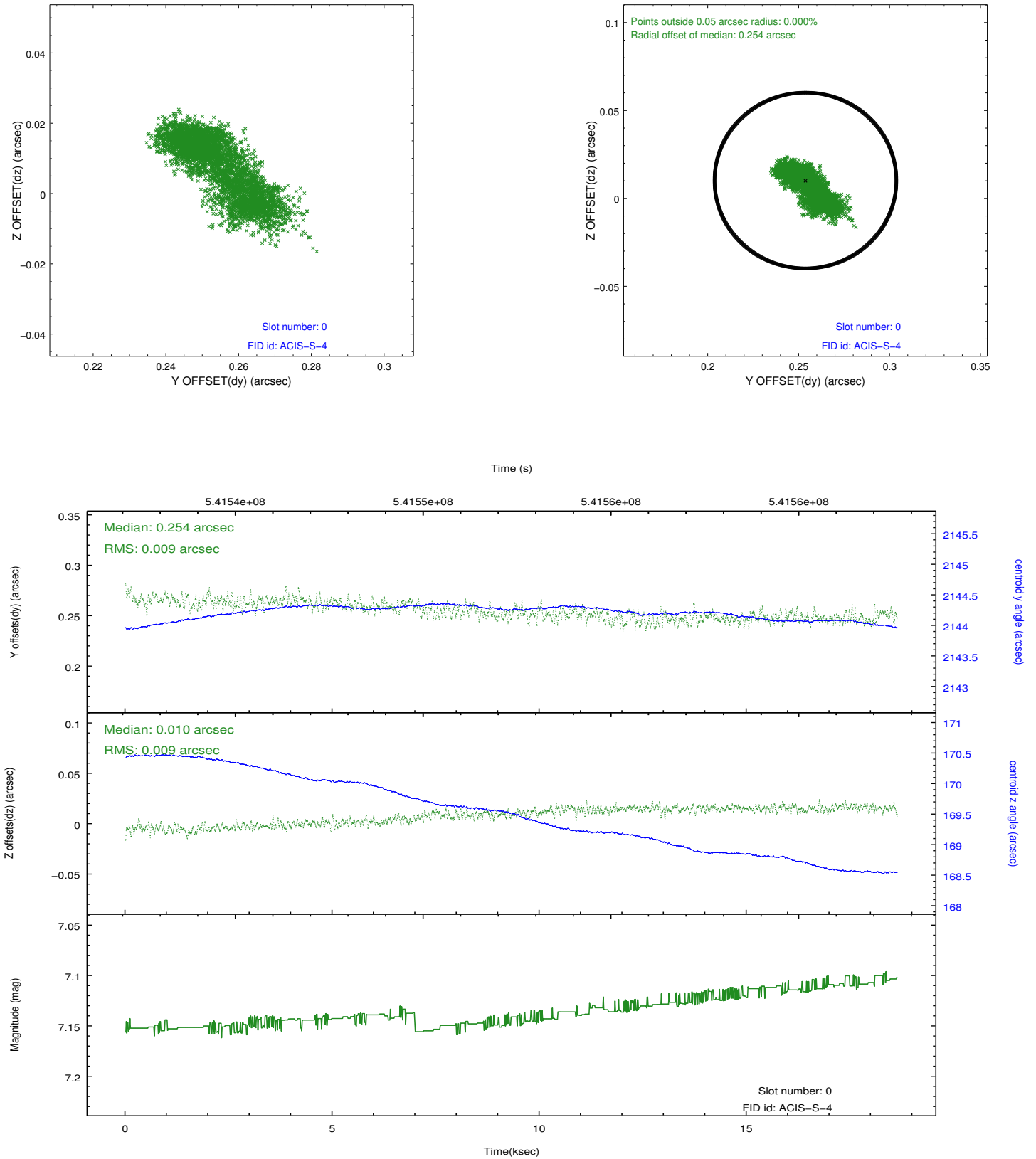


2.4.5 Slot 7

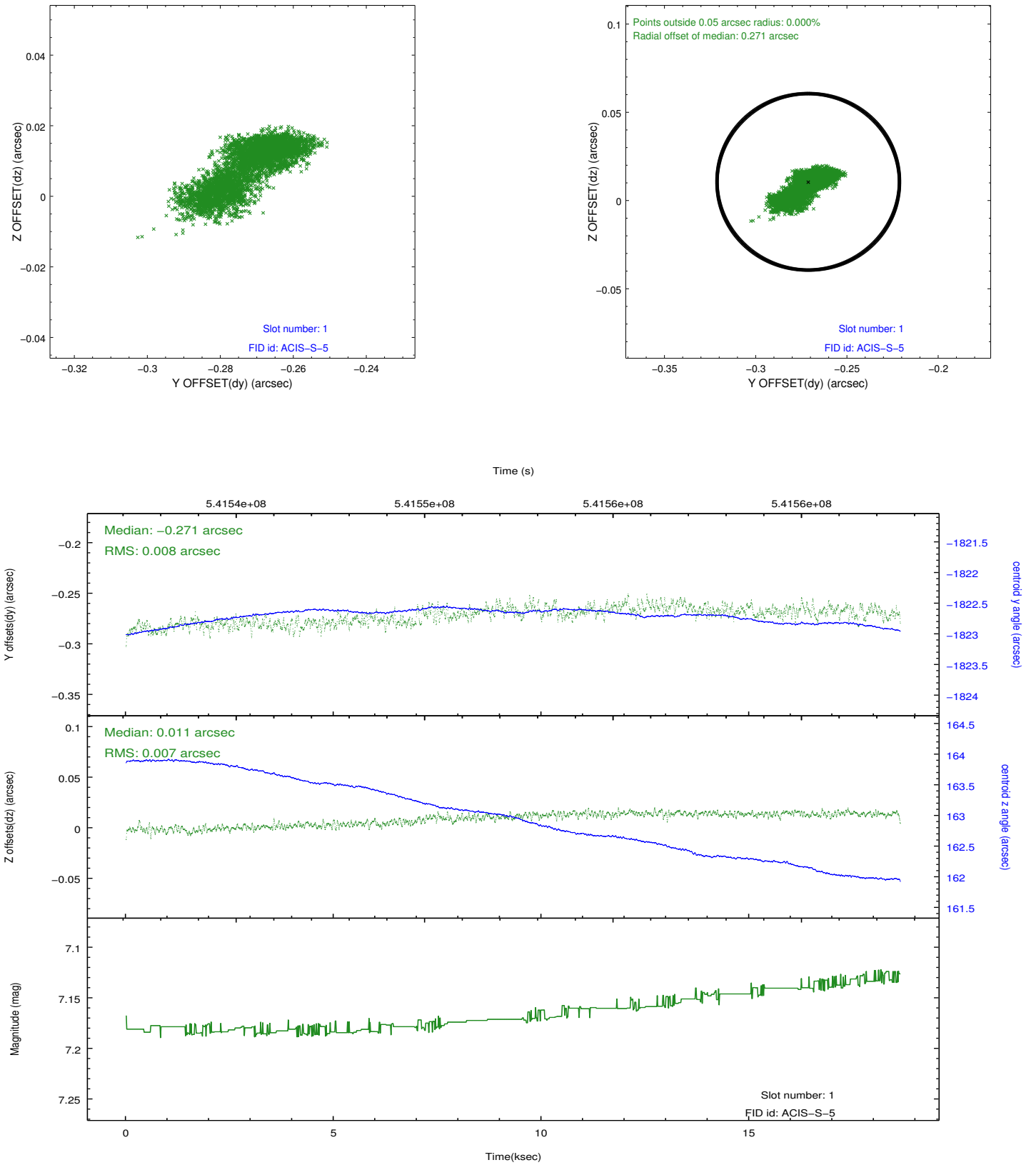


2.5 FID Slots

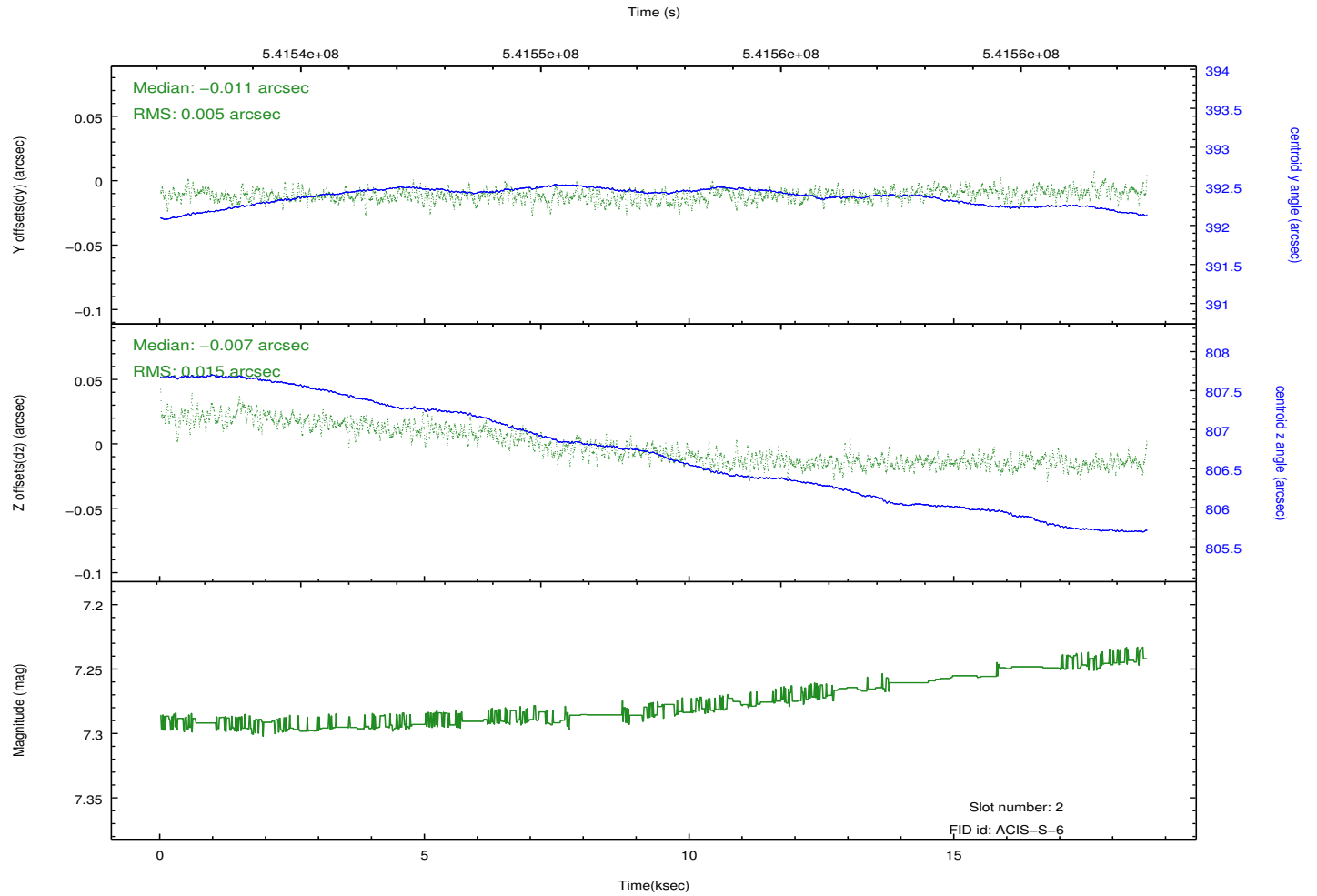
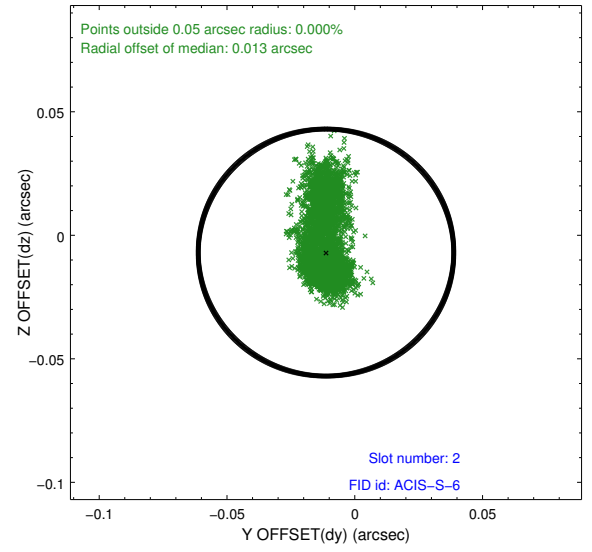
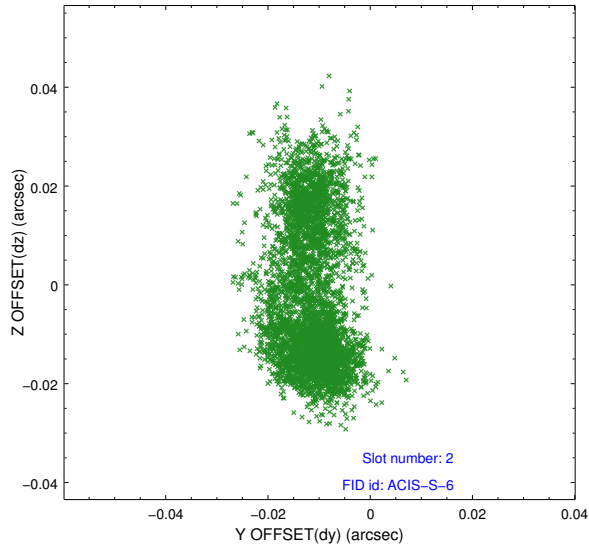
2.5.1 Slot 0



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)	2015.03.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	18.560625451326

A.2 Comments

Window preference met.