

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19852 - L2 Version 1
Chandra X-Ray Center

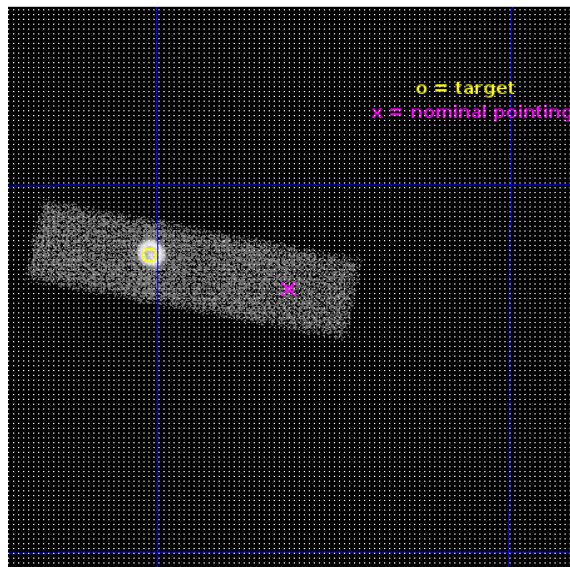
L2 Processing Date : Mar 27 2017

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

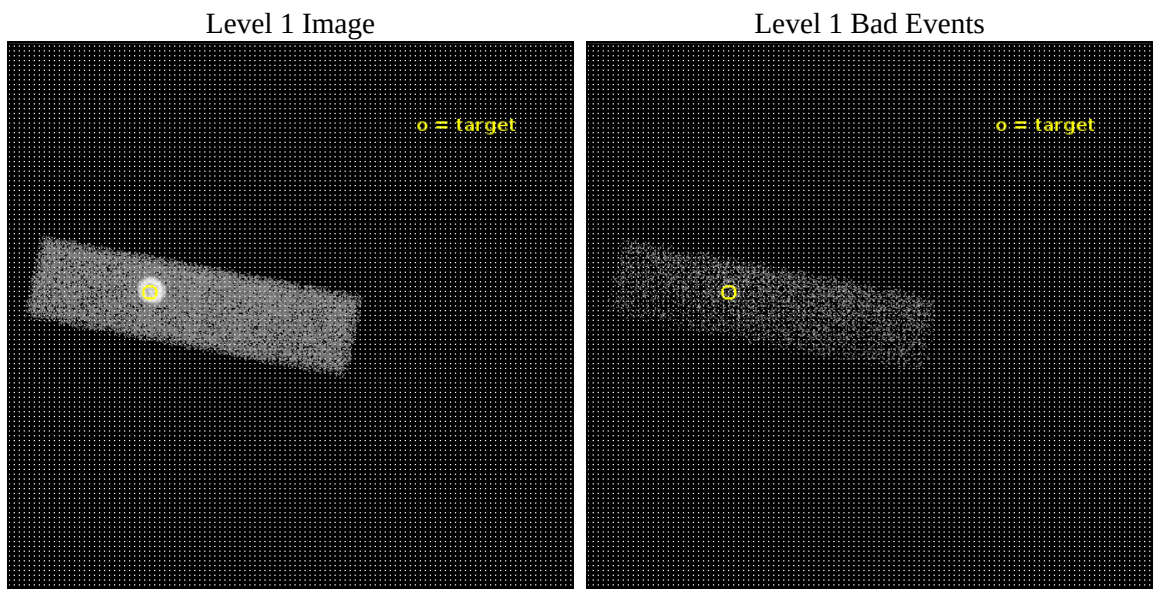
seq_num	590555	Sequence number
obs_id	19852	Observation id
title	AO-18 Calibration Observations of E0102-72	Proposal title
observer	CXC Calibration	Principal investigator
object	E0102-72	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA [deg]
dec_targ	-72.032028	Observer's specified target Dec [deg]
ra_nom	15.812067490163	Nominal RA [deg]
dec_nom	-72.047452922287	Nominal Dec [deg]
roll_nom	190.95833750613	Nominal Roll [deg]
revision	1	Processing version of data
ontime	20063.946278691	Sum of GTIs [s]
livetime	19084.891352317	Livetime [s]
ontime7	20063.946278691	Sum of GTIs [s]
l2events	50502	Number of level 2 events



2 OBI

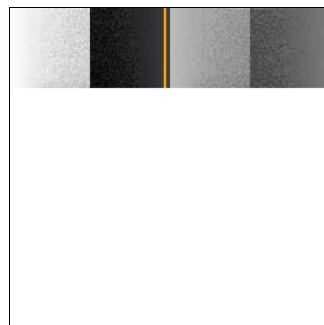
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	20063.946278691	Sum of GTIs [s]
caldsver	4.7.3	 	ontime7	20063.946278691	Sum of GTIs [s]
date	2017-03-27T05:15:42	Date and time of file creation	l1events	70608	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

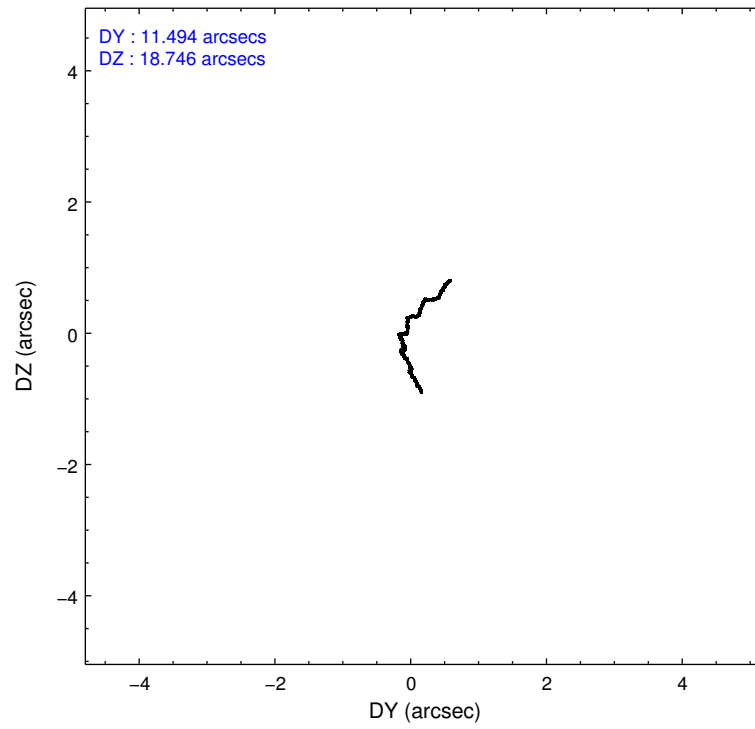
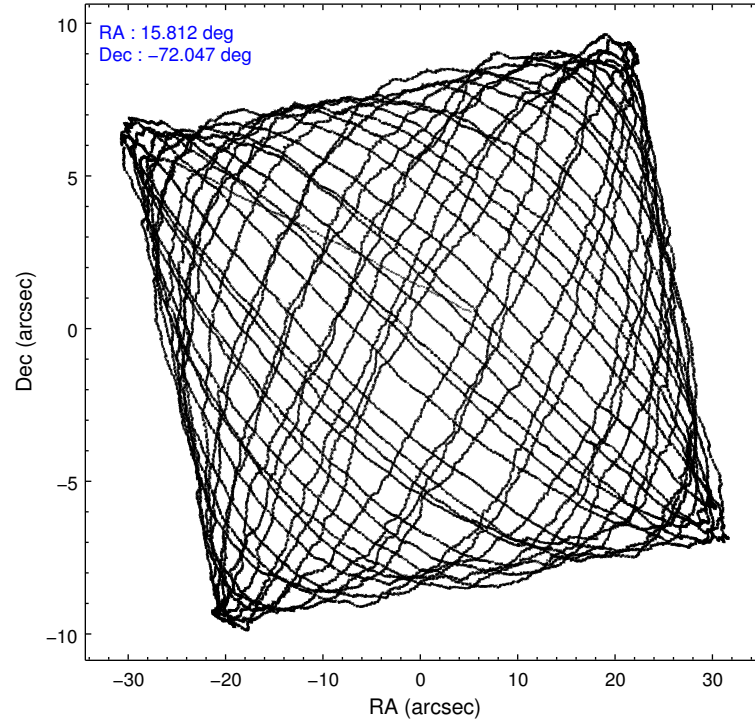
	ccd 7
level 1 events	70608
rejected events	19258
rejected %	27%

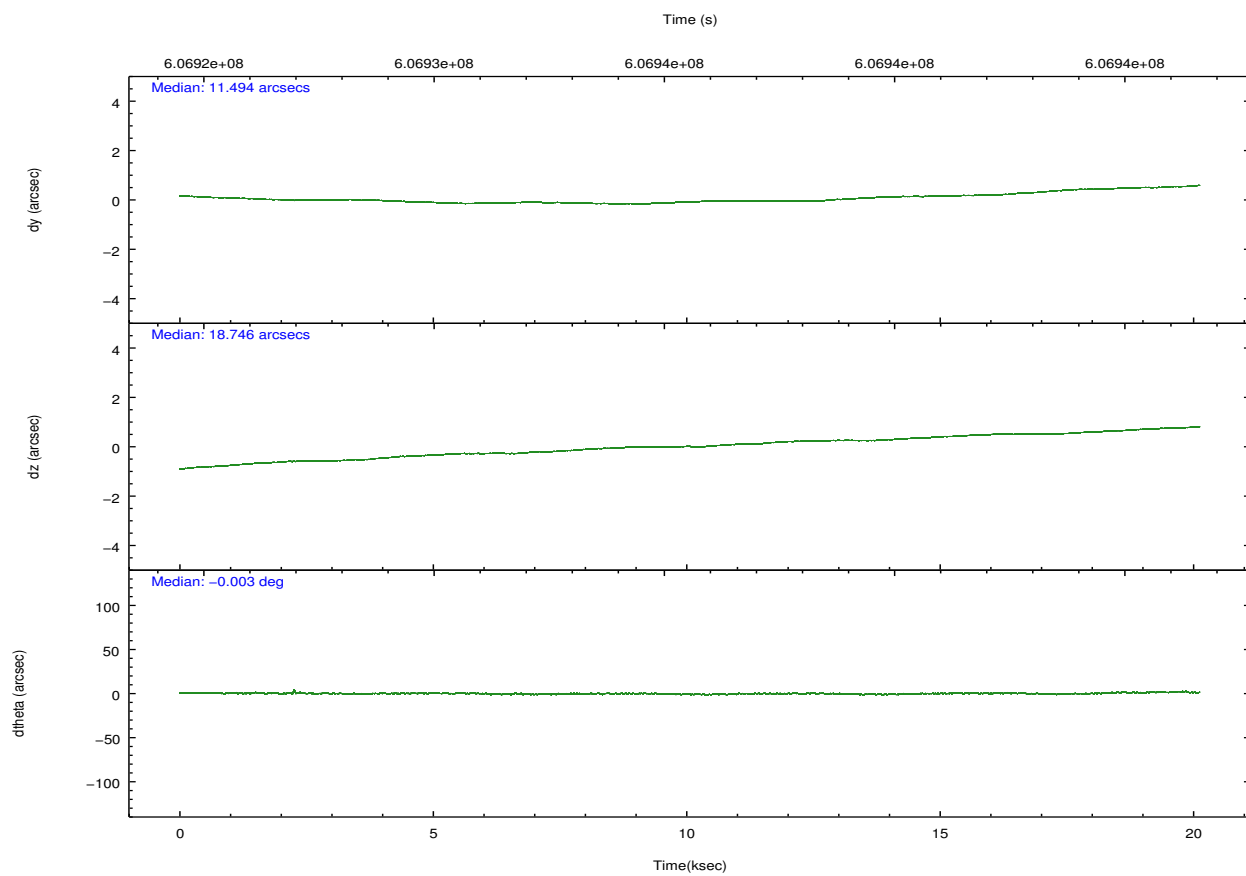
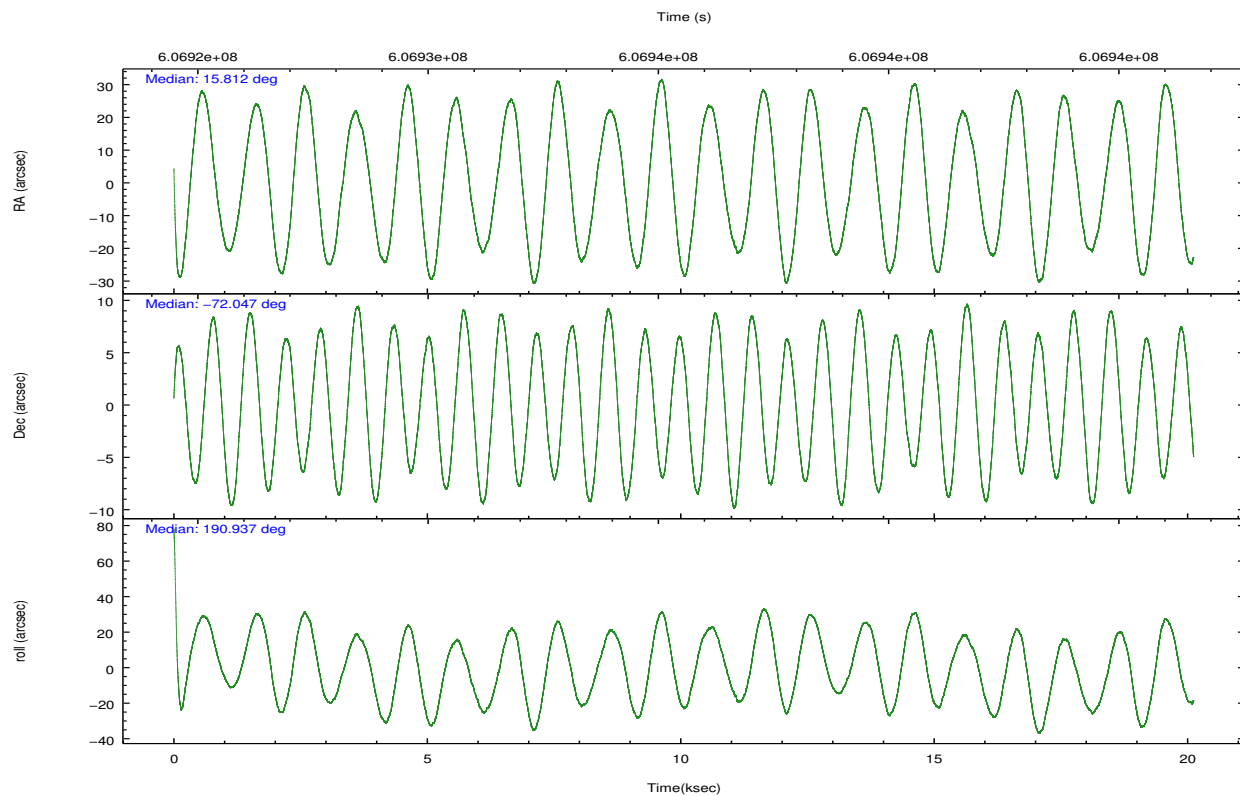
	ccd 7
grade 0 events	12878
	18%
grade 1 events	114
	0%
grade 2 events	12998
	18%
grade 3 events	6036
	8%
grade 4 events	5893
	8%
grade 5 events	4372
	6%
grade 6 events	13550
	19%
grade 7 events	14767
	20%

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	15.878521	15.8120674901629	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-72.029193	-72.04745292228691	Subarray start row	769	769
[deg] Pointing Roll	190.864883	190.9583375061264	Subarray row count	256	256
[s] Window start time (MET)	602294469.184000	602294469.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	607305669.184000	607305669.184000	[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	-199.707323	-199.7145787182124			
[mm] SIM translation stage offset	9.5748	9.582056135204567			
[s] Observation start time (MET)	606925624.184000	606924357.3369			
Observation start date	2017-03-26T14:25:55	2017-03-26T14:05:57			
[s] Observation end time (MET)	606945624.184000	606946880.68821			
Observation end date	2017-03-26T19:59:15	2017-03-26T20:21:20			
Read mode	TIMED	TIMED			

2.3 Aspect



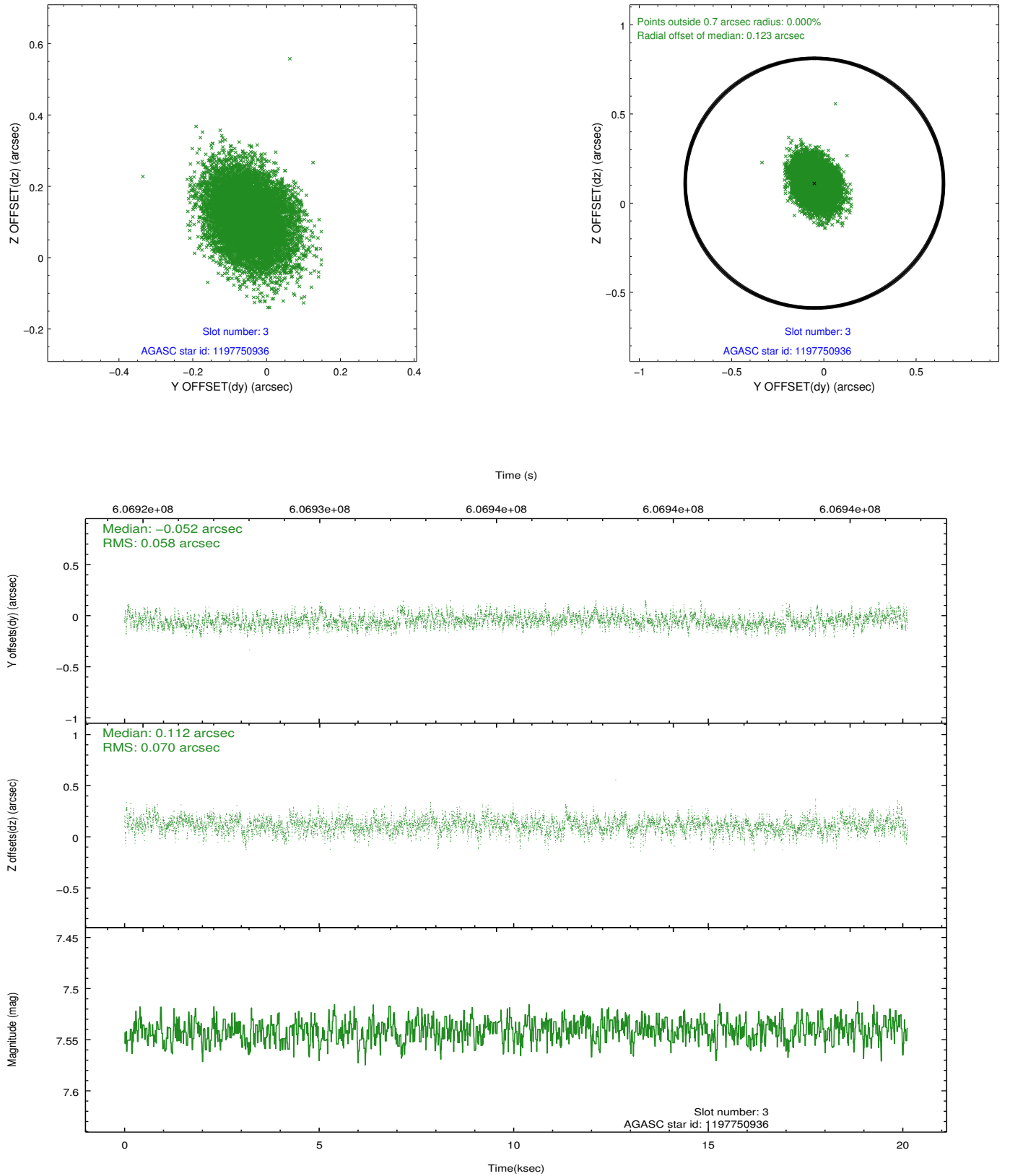


Slot Statistics

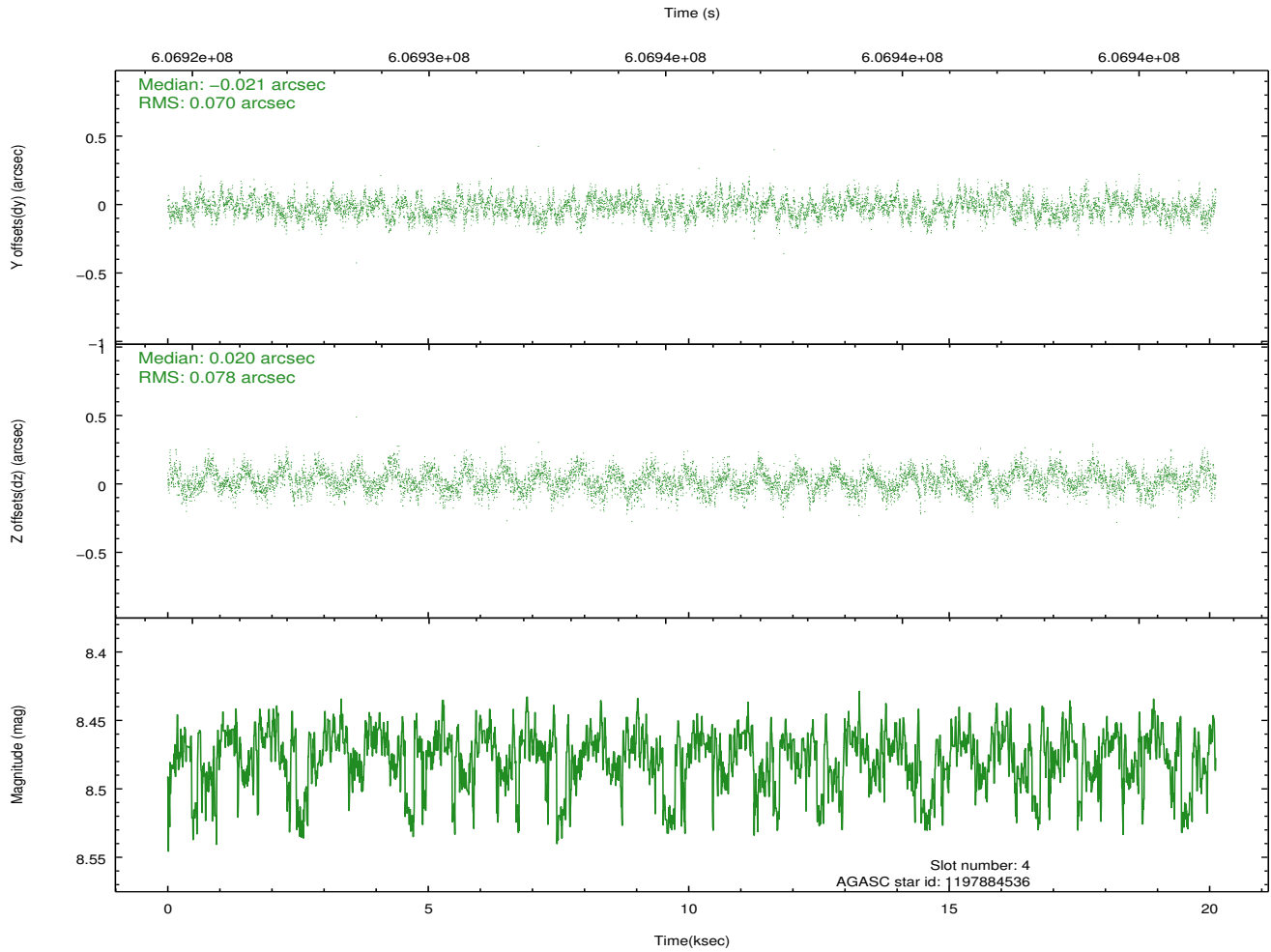
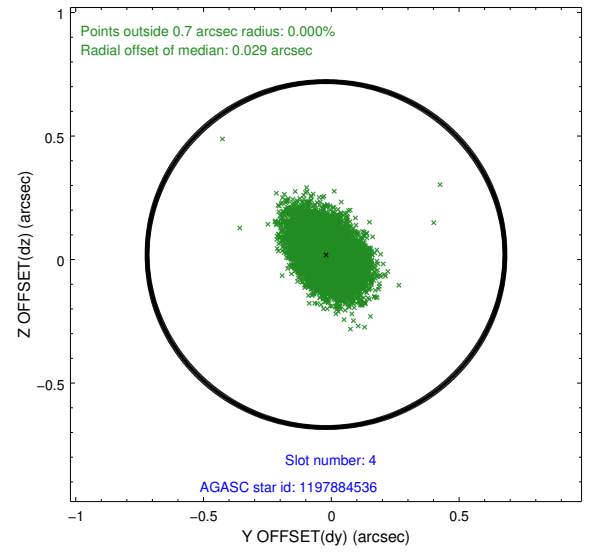
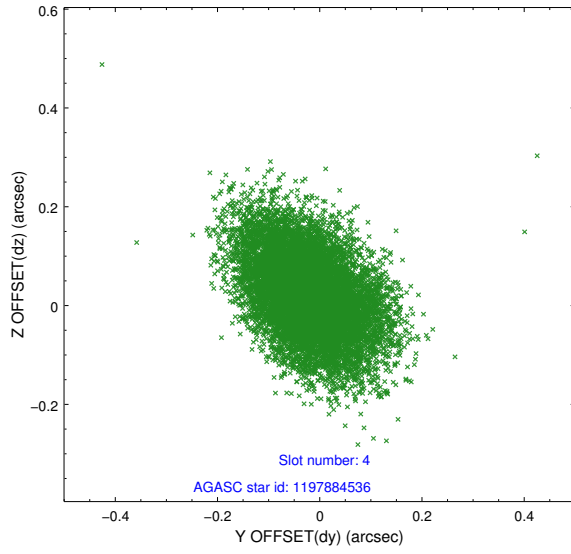
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.09	4908	-0.105	0.079	0.013	0.023	0.000000	0.000000	-765.14	-1542.65
1	FID		ACIS-S-4	7.17	4906	0.352	0.030	0.013	0.020	0.000000	0.000000	2148.53	365.60
2	FID		ACIS-S-5	7.17	4908	-0.281	-0.098	0.012	0.022	0.000000	0.000000	-1817.90	359.42
3	GUIDE	used	1197750936	7.54	9814	-0.052	0.112	0.096	0.159	15.387940	-71.549550	224.76	-1797.41
4	GUIDE	used	1197884536	8.48	9809	-0.021	0.020	0.110	0.182	17.160729	-71.835289	-1541.35	-399.51
5	GUIDE	used	1197884712	8.28	9813	-0.086	-0.240	0.087	0.154	16.087398	-72.252690	-73.68	834.10
6	GUIDE	used	1197885104	9.29	9802	0.058	-0.032	0.144	0.233	17.845067	-72.189368	-2010.07	1009.91
7	GUIDE	used	1197885328	7.23	9813	0.095	0.140	0.104	0.171	16.283090	-71.733943	-649.72	-956.23

2.4 Star Slots

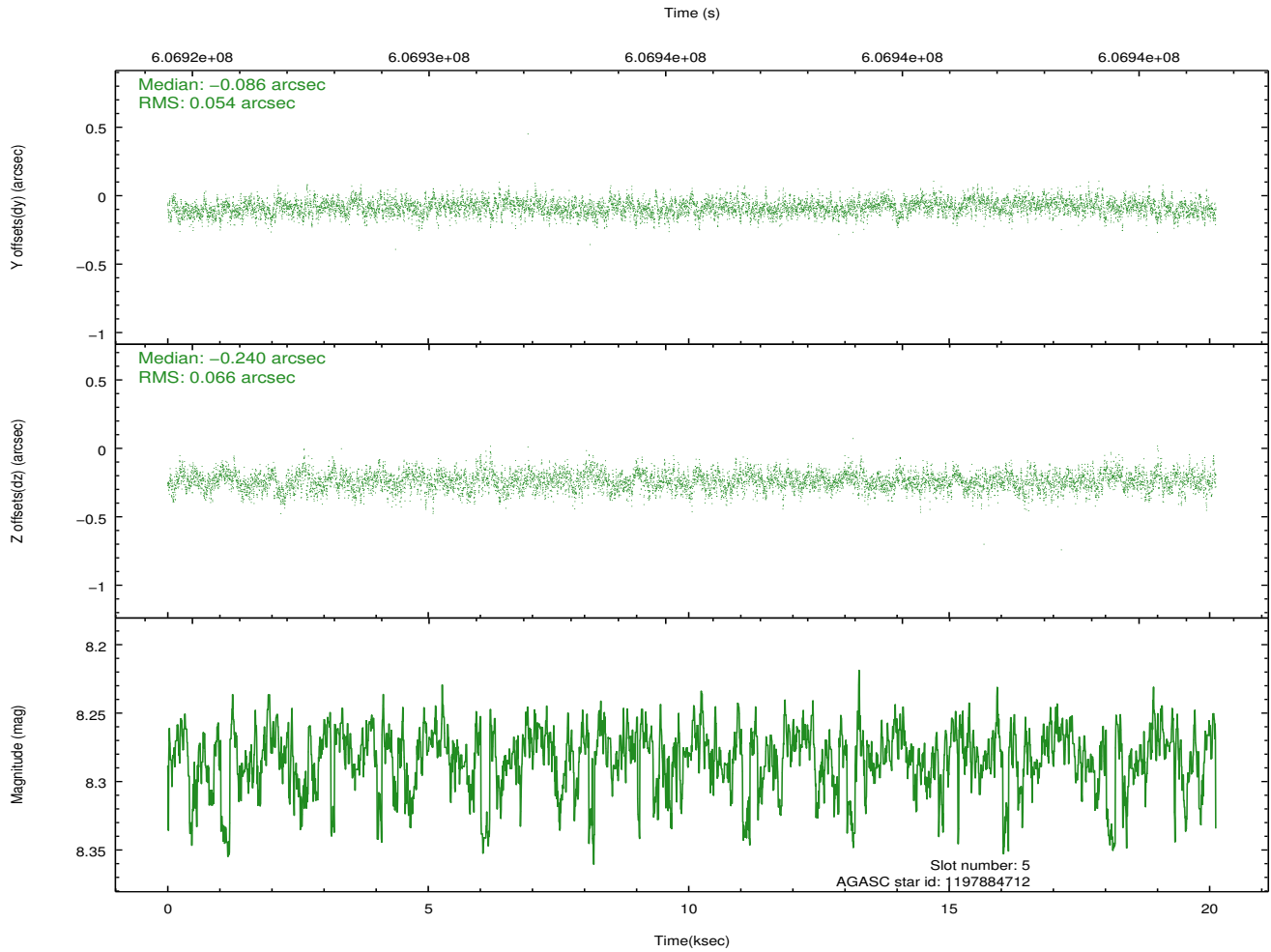
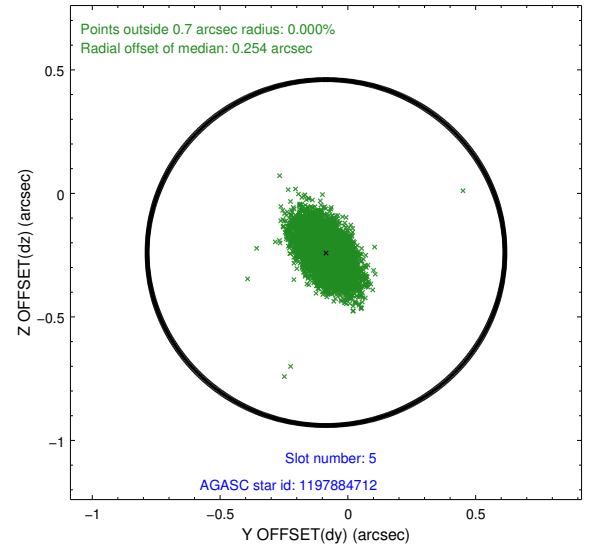
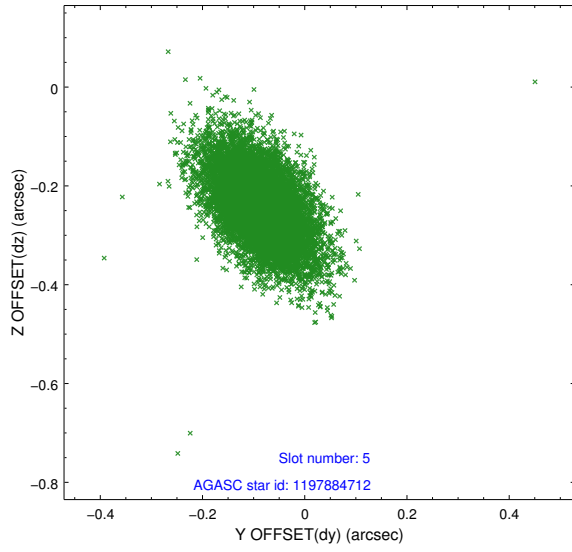
2.4.1 Slot 3



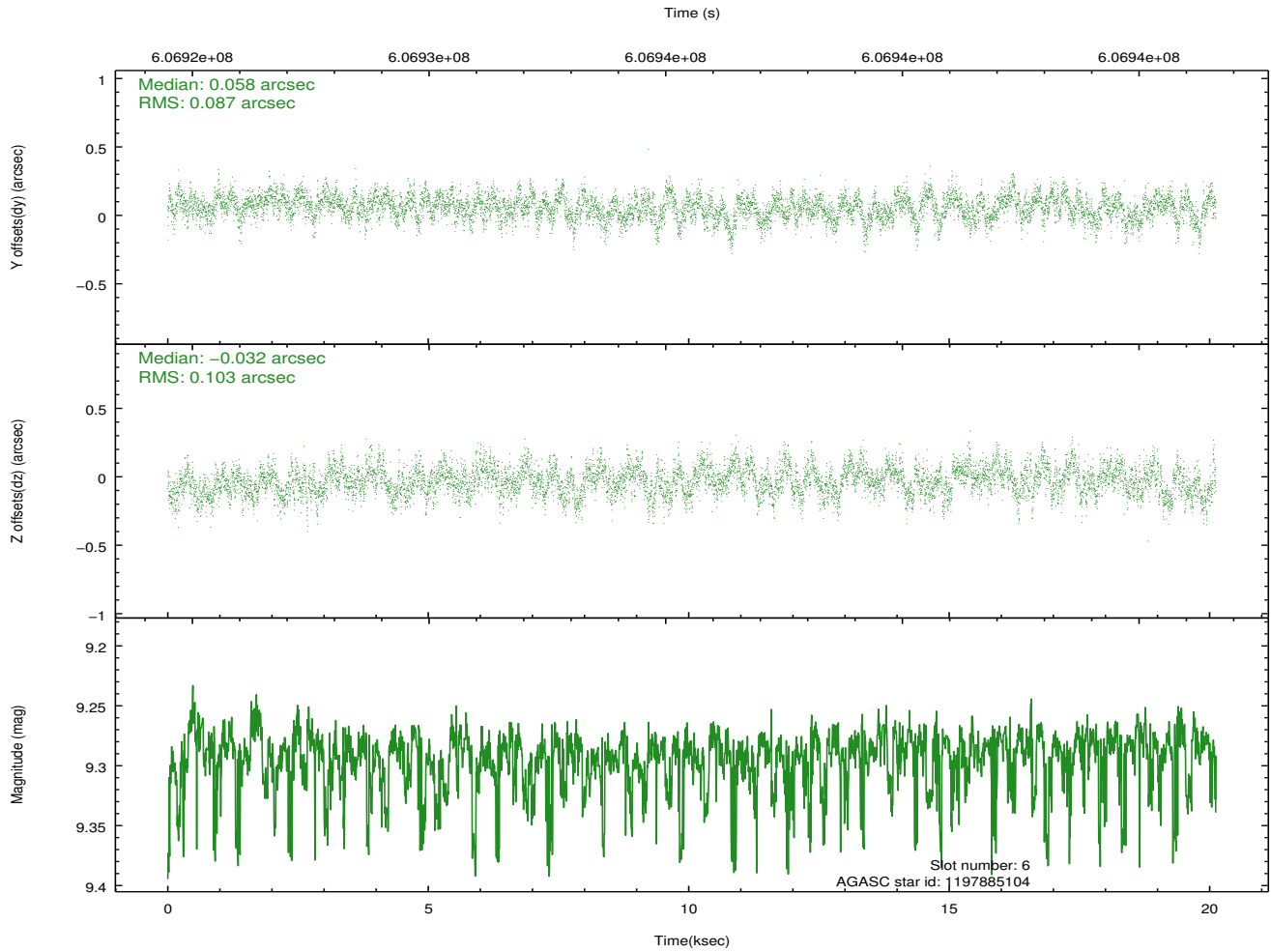
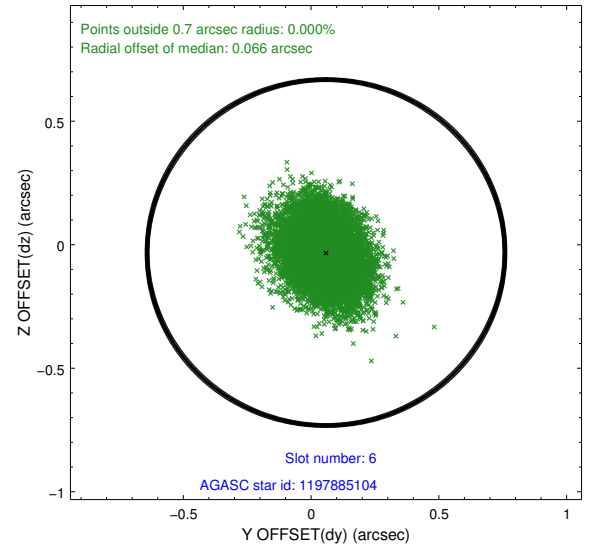
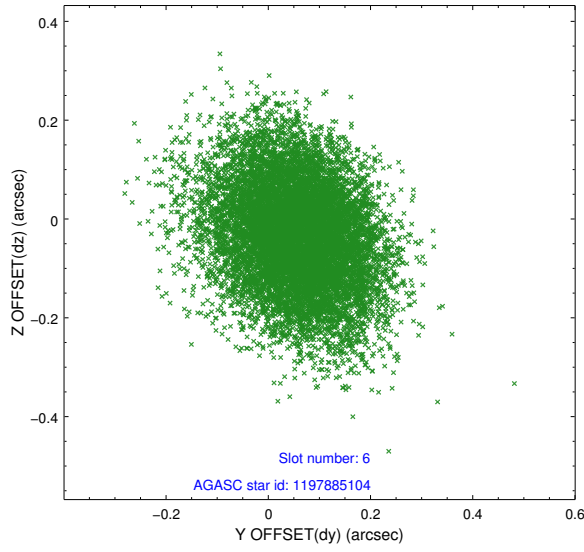
2.4.2 Slot 4



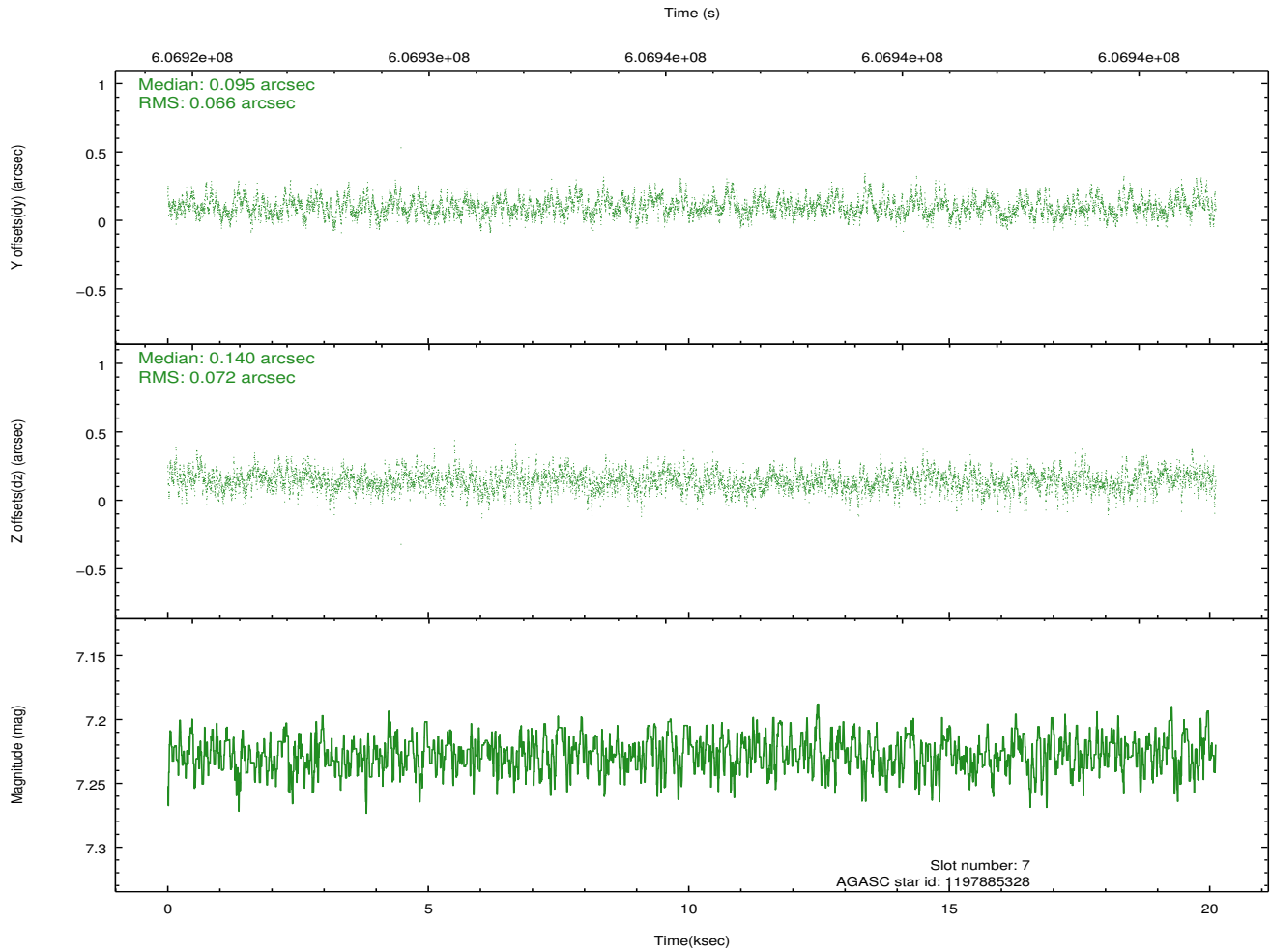
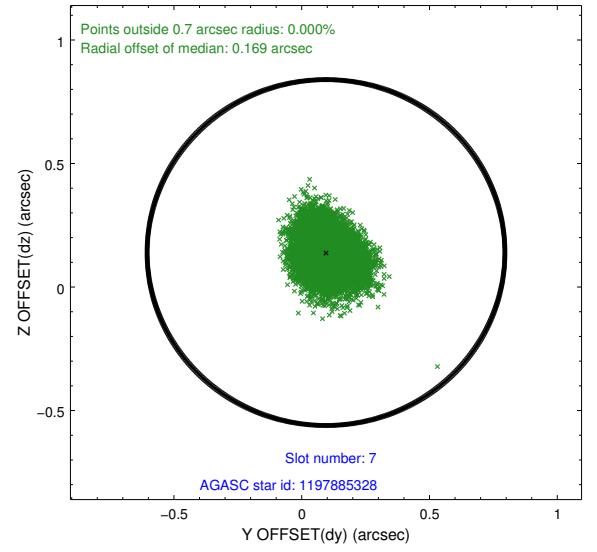
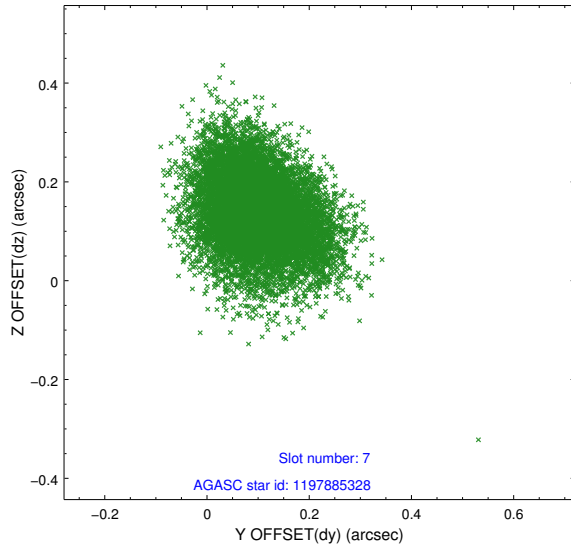
2.4.3 Slot 5



2.4.4 Slot 6

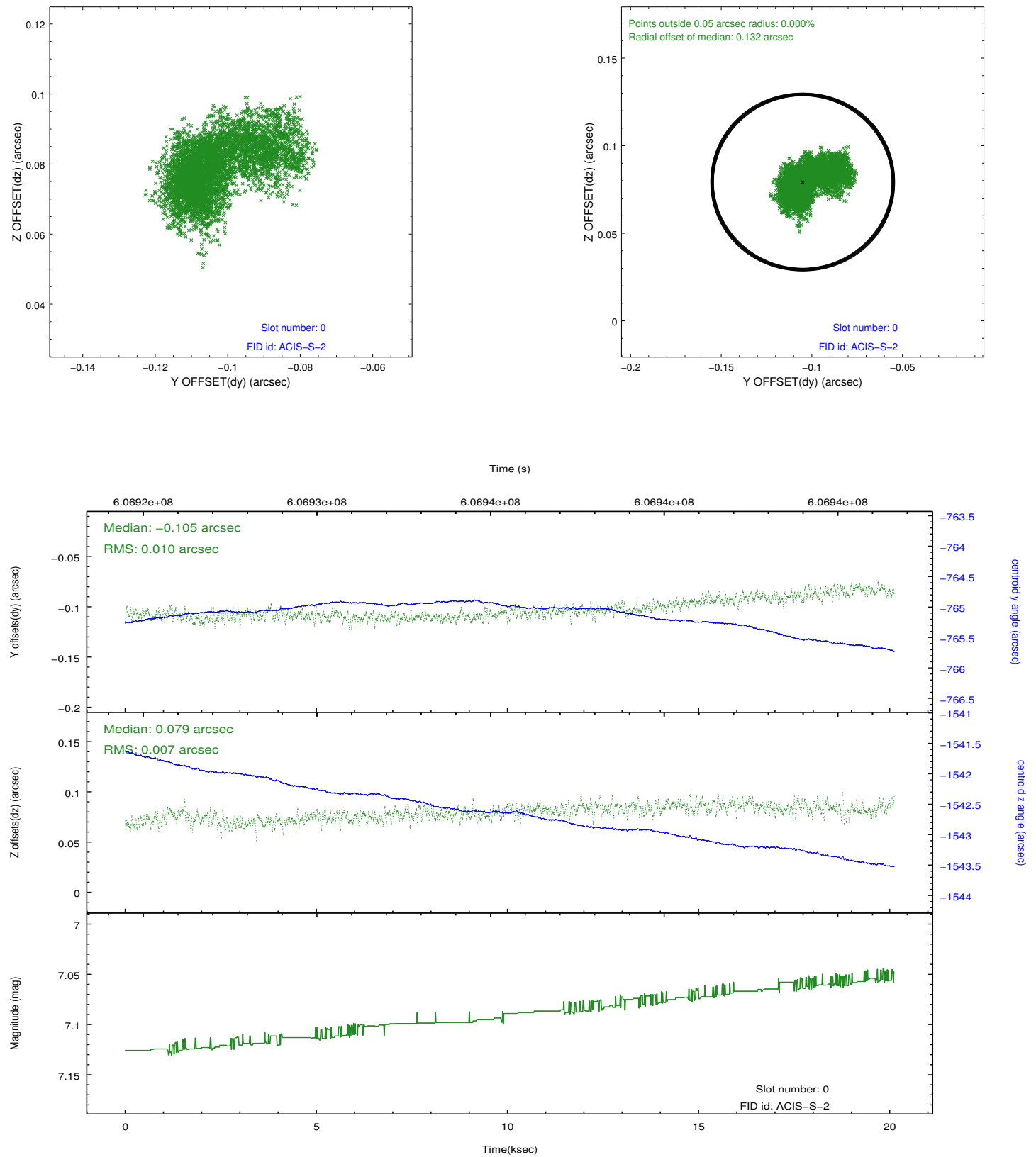


2.4.5 Slot 7

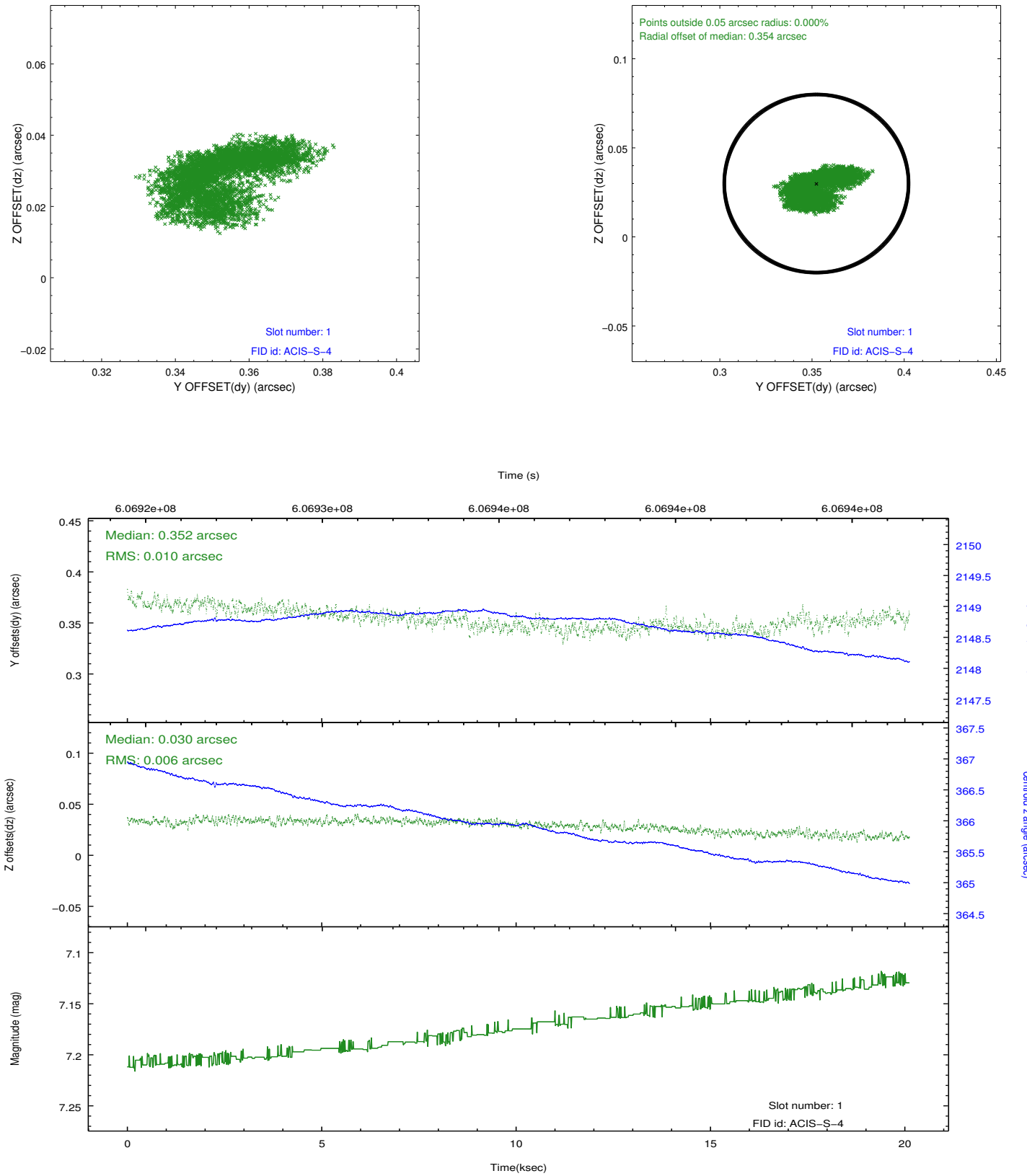


2.5 FID Slots

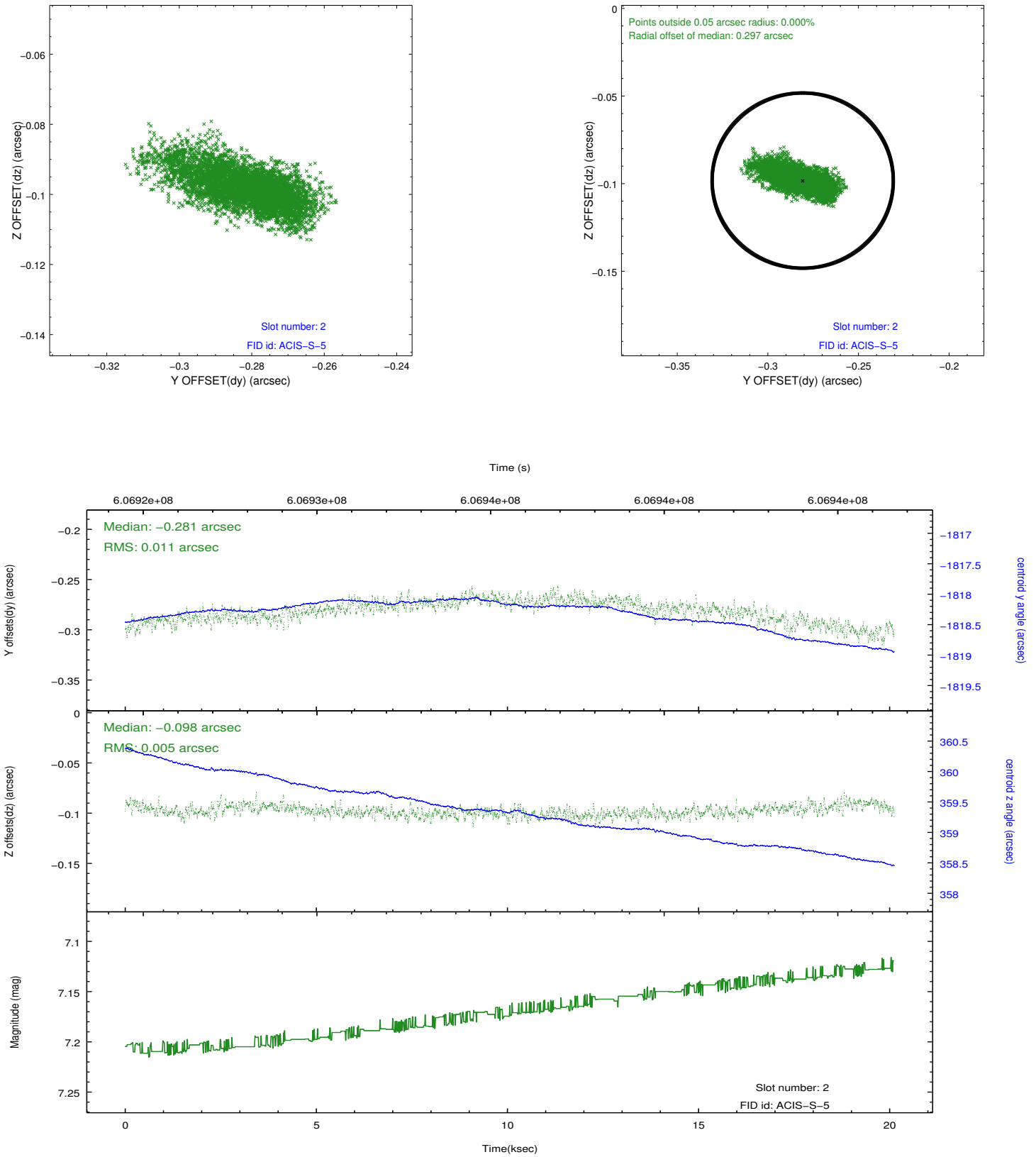
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2017.03.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.063946278691

A.2 Comments