

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 20795 - L2 Version 1
Chandra X-Ray Center

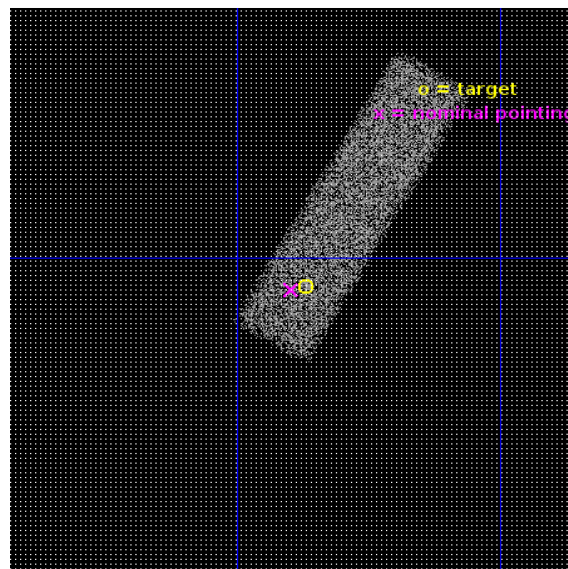
L2 Processing Date : Sep 23 2017

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1 Front

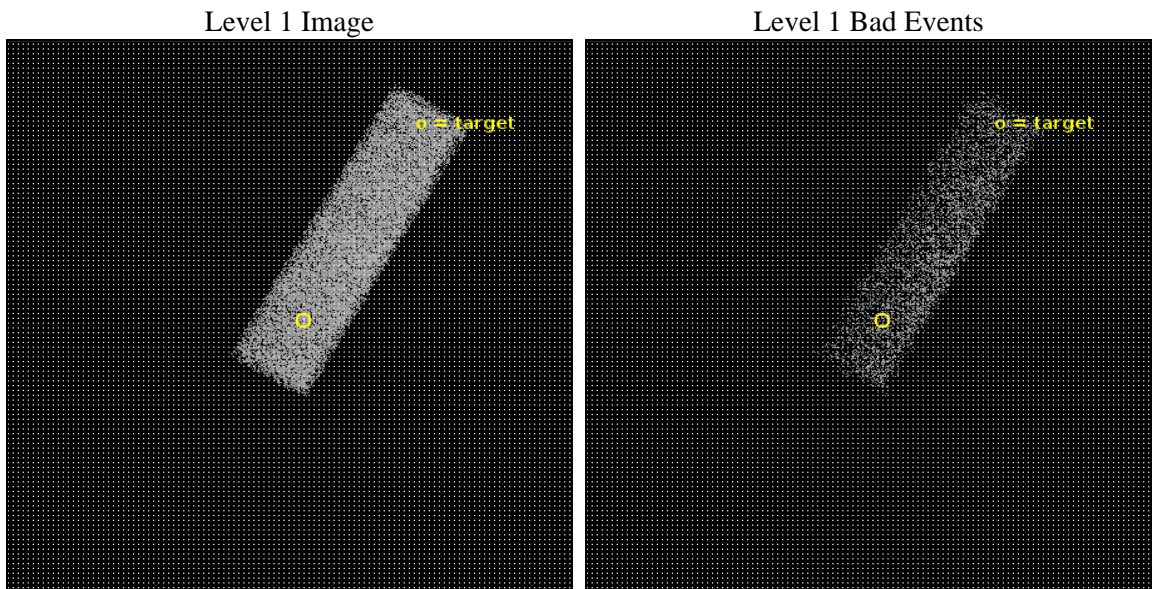
seq_num	401865	Sequence number
obs_id	20795	Observation id
title	Globular cluster neutron stars and the determination of the dense matter equation of state	Proposal title
observer	Sebastien Guillot	Principal investigator
object	M30	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	325.092083	Observer's specified target RA [deg]
dec_targ	-23.179861	Observer's specified target Dec [deg]
ra_nom	325.0990056995	Nominal RA [deg]
dec_nom	-23.181428597429	Nominal Dec [deg]
roll_nom	300.15940200569	Nominal Roll [deg]
revision	1	Processing version of data
ontime	15060.783124328	Sum of GTIs [s]
livetime	14325.86618884	Livetime [s]
ontime7	15060.783124328	Sum of GTIs [s]
l2events	15622	Number of level 2 events



2 OBI

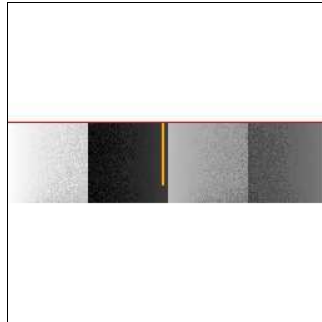
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	15060.783124328	Sum of GTIs [s]
caldsver	4.7.6	 	ontime7	15060.783124328	Sum of GTIs [s]
date	2017-09-23T03:51:42	Date and time of file creation	l1events	33237	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

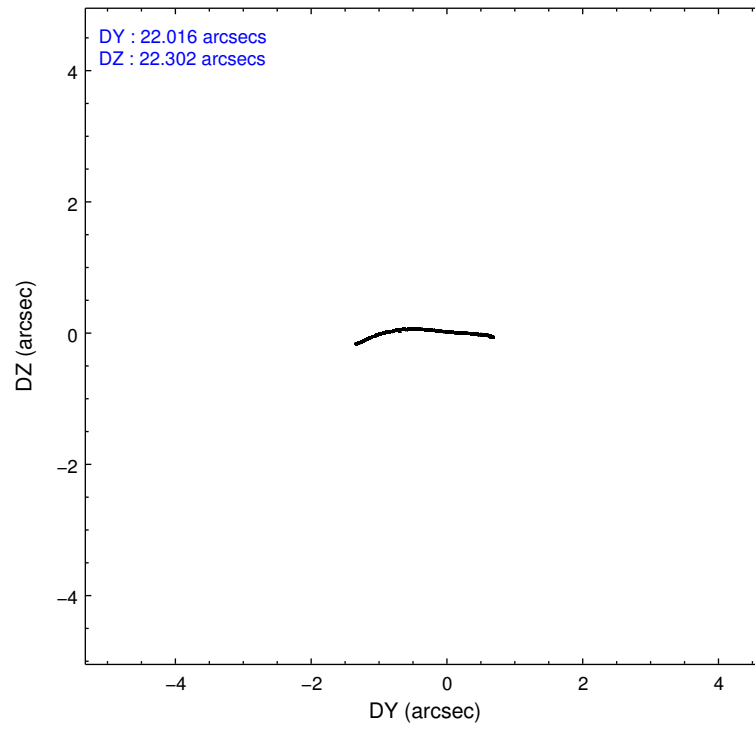
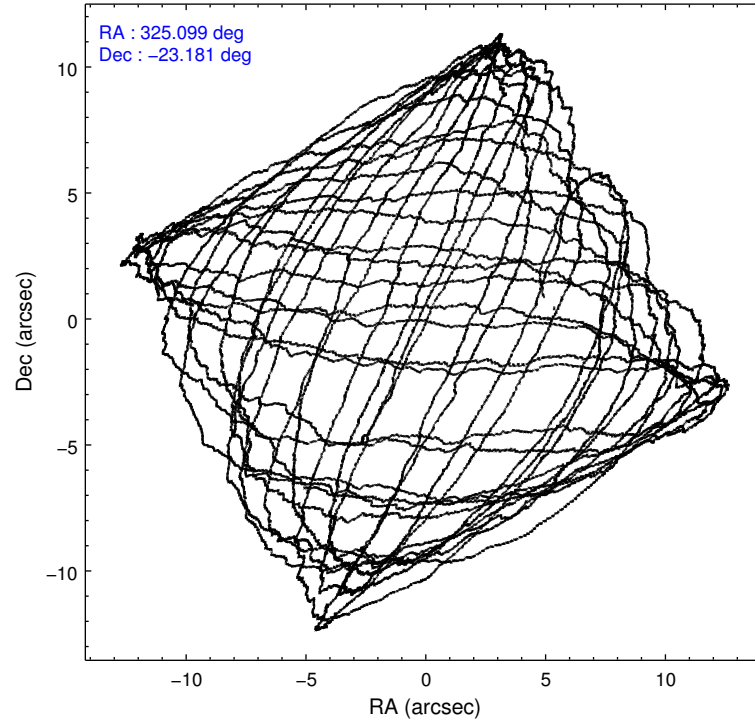
	ccd 7
level 1 events	33237
rejected events	17150
rejected %	51%

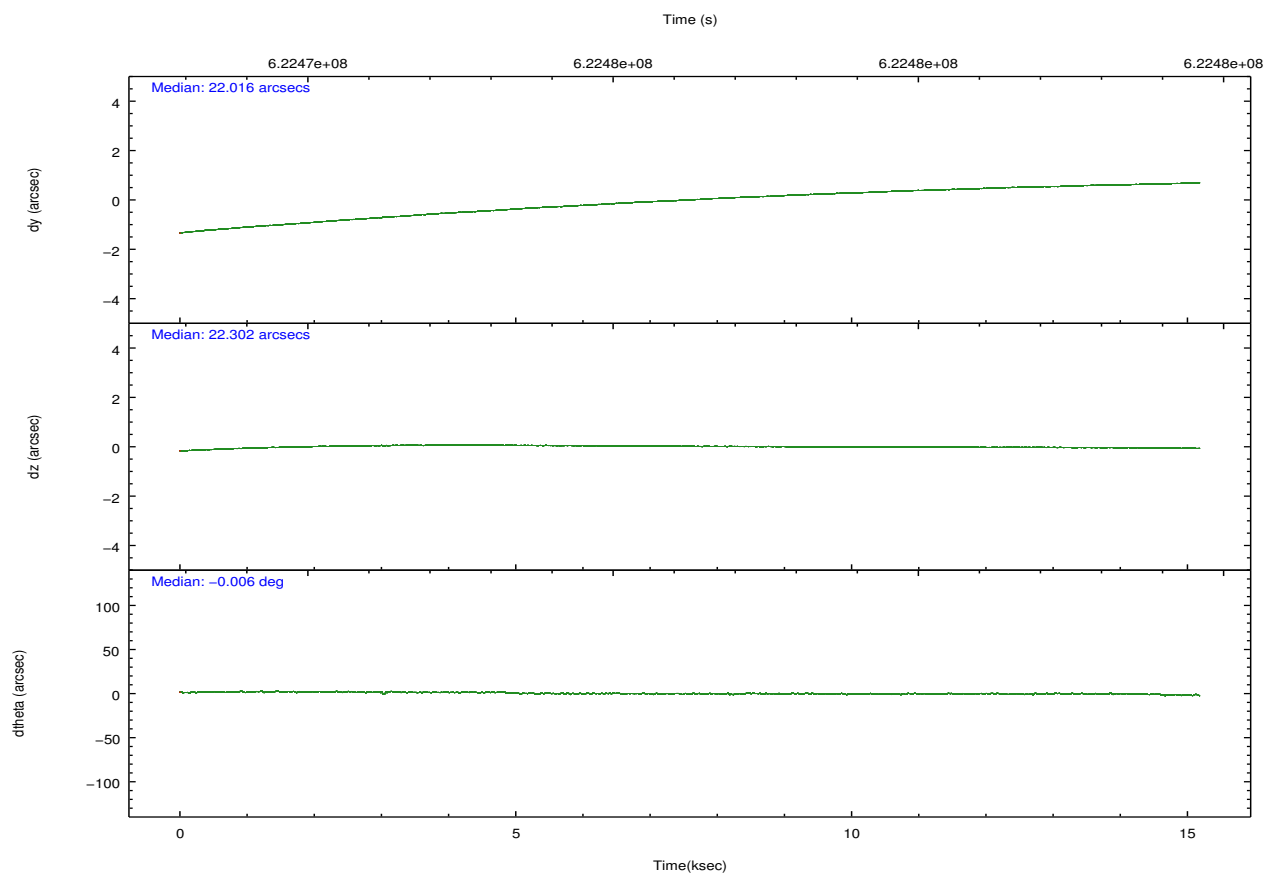
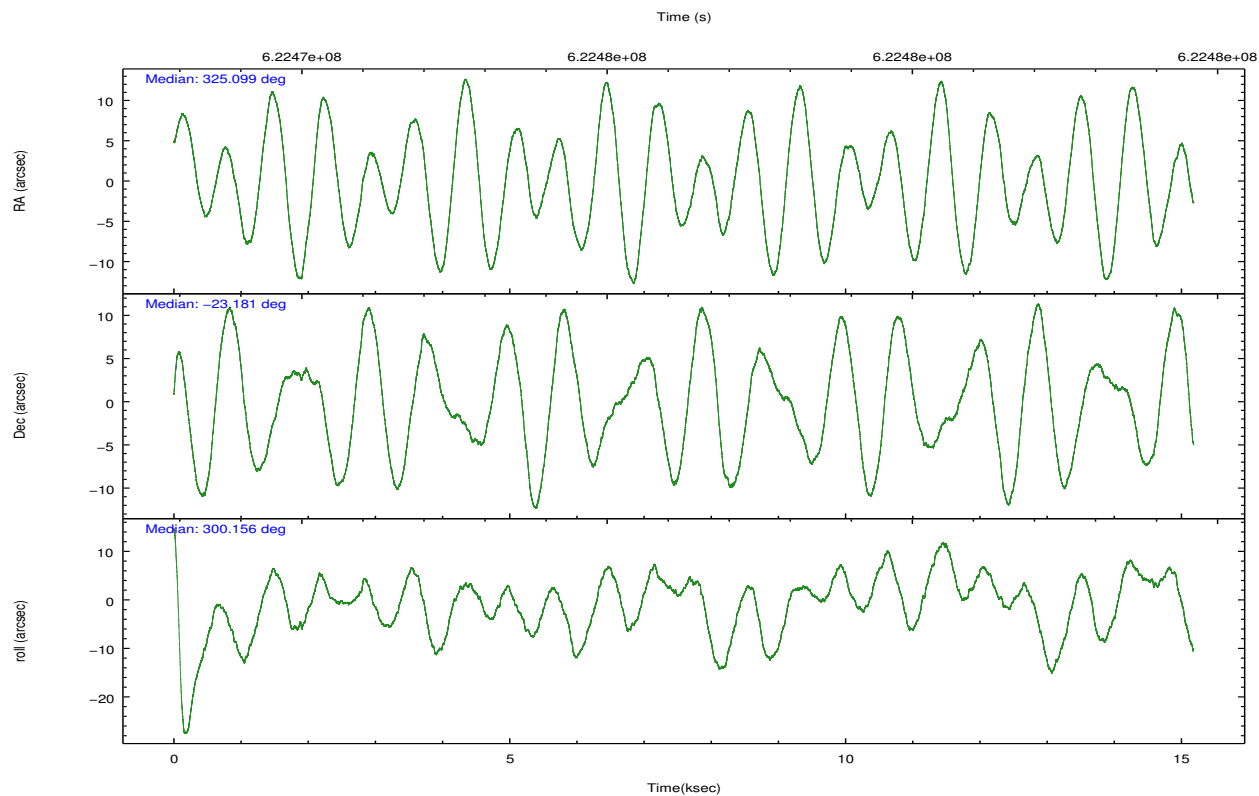
	ccd 7
grade 0 events	1619
	4%
grade 1 events	56
	0%
grade 2 events	3307
	9%
grade 3 events	1801
	5%
grade 4 events	1821
	5%
grade 5 events	3508
	10%
grade 6 events	7540
	22%
grade 7 events	13585
	40%

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	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	325.072877	325.0990056995003	CCD I2 on	N	N
[deg] Pointing Dec	-23.168107	-23.18142859742918	CCD I3 on	N	N
[deg] Pointing Roll	299.992441	300.1594020056894	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O2	N
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	O1	N
[s] Observation start time (MET)	622468820.184000	622467664.78012	CCD S5 on	N	N
Observation start date	2017-09-22T11:59:11	2017-09-22T11:41:04	Number of optional ACIS chips dropped	2	2
[s] Observation end time (MET)	622483820.184000	622484546.01861	On-chip summing requested	N	N
Observation end date	2017-09-22T16:09:11	2017-09-22T16:22:26	Subarray requested	CUSTOM	1/4
Read mode	TIMED	TIMED	Subarray start row	385	385
			Subarray row count	256	256
			Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	0.8

2.3 Aspect



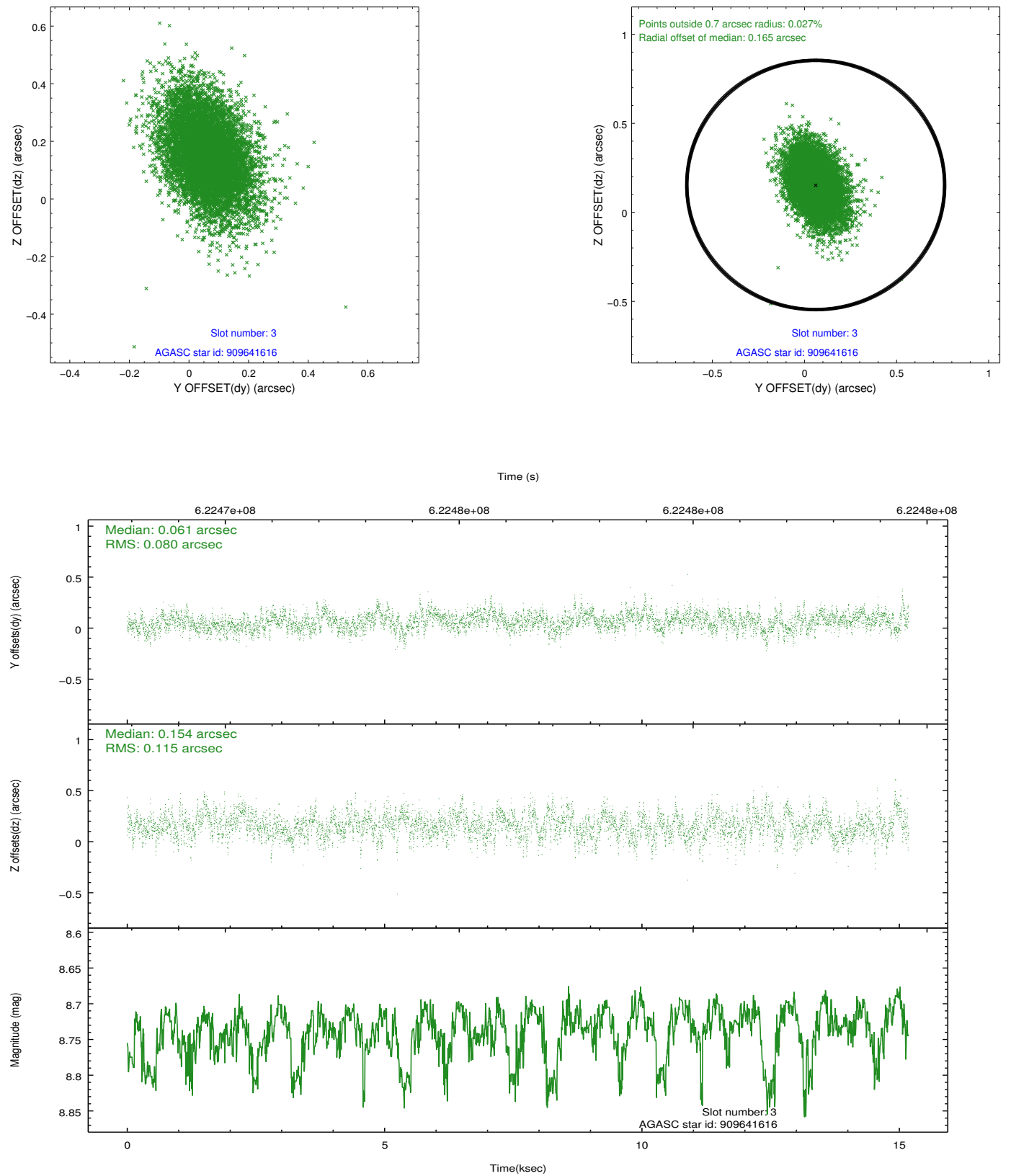


Slot Statistics

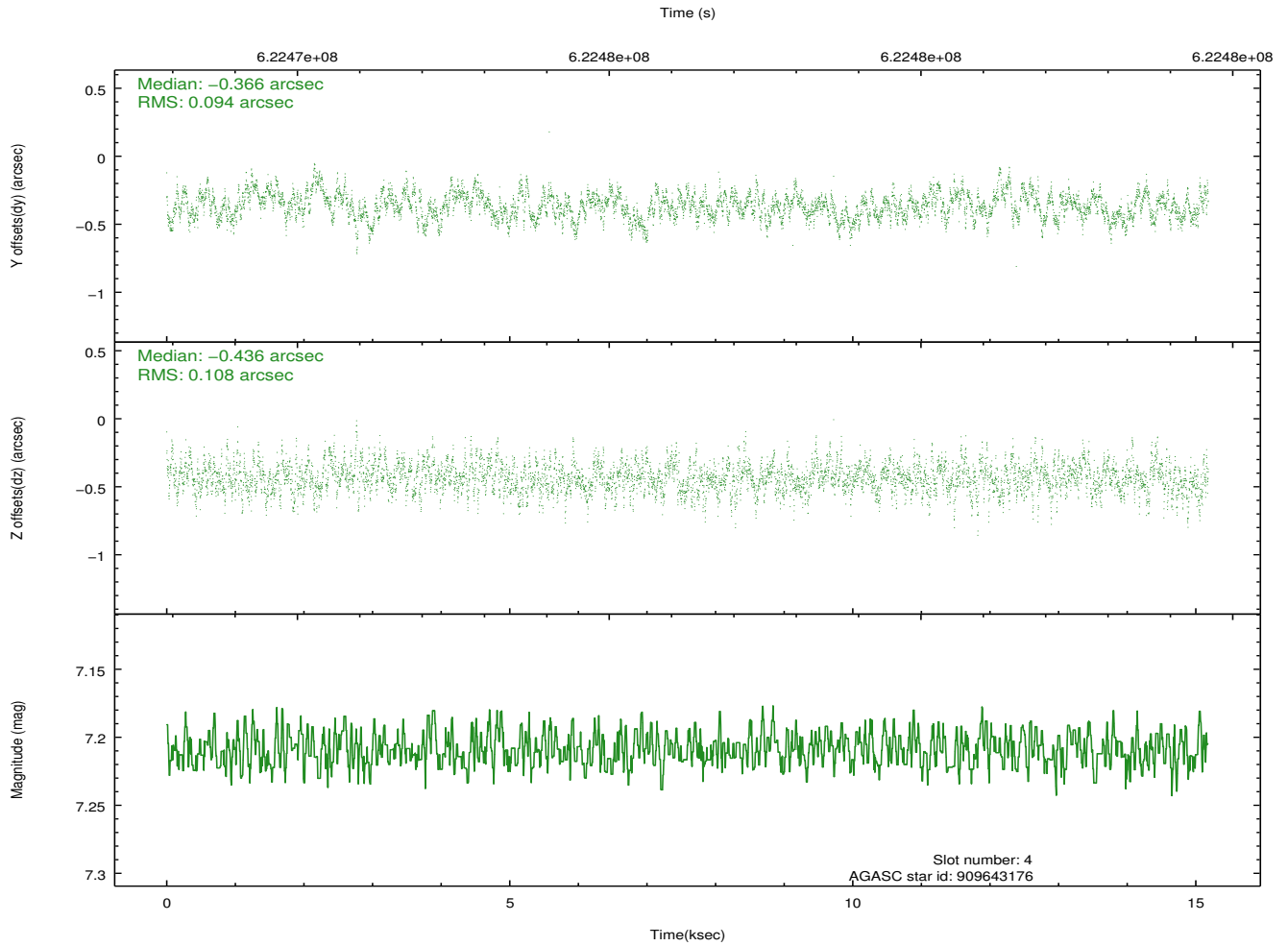
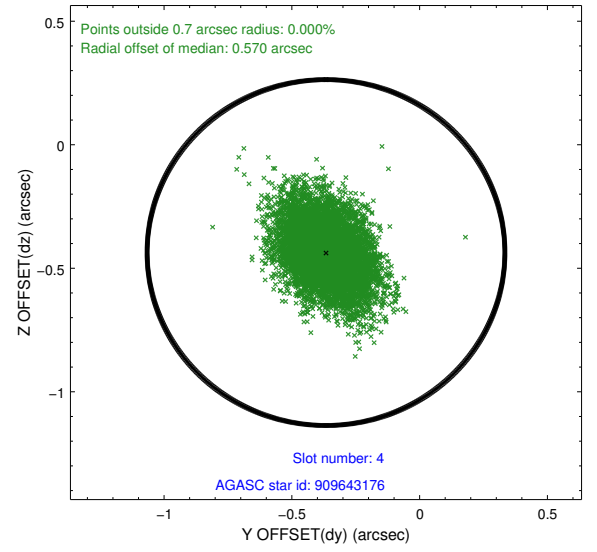
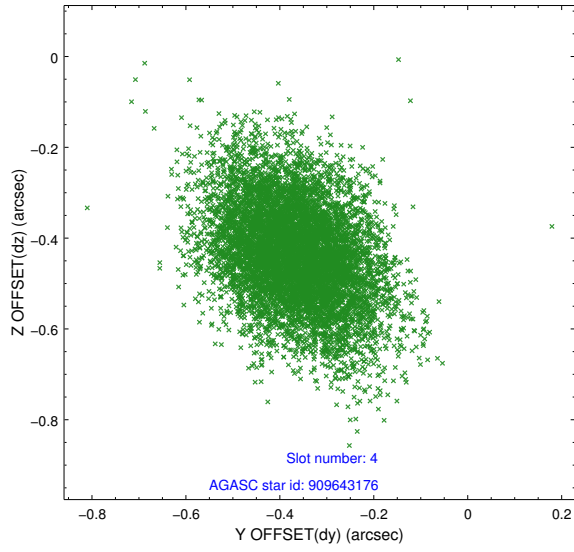
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.06	3704	0.036	-0.038	0.014	0.024	0.000000	0.000000	921.03	-1739.53
1	FID		ACIS-S-4	7.08	3703	0.389	0.014	0.022	0.034	0.000000	0.000000	2138.91	164.40
2	FID		ACIS-S-5	7.08	3703	-0.454	0.036	0.034	0.047	0.000000	0.000000	-1827.99	158.26
3	GUIDE	used	909641616	8.74	7400	0.061	0.154	0.145	0.249	324.489766	-23.068367	-1271.87	-1495.86
4	GUIDE	used	909643176	7.21	7406	-0.366	-0.436	0.151	0.253	325.747031	-23.170469	1127.10	1925.17
5	GUIDE	used	909646560	9.42	7400	-0.196	-0.196	0.192	0.317	325.225689	-23.808093	2247.83	-715.61
6	GUIDE	used	909647192	8.98	7402	0.328	0.397	0.178	0.298	324.987552	-23.199068	-43.32	-299.84
7	GUIDE	used	909513480	9.68	7394	0.176	0.084	0.224	0.391	324.347426	-23.375320	-548.44	-2449.98

2.4 Star Slots

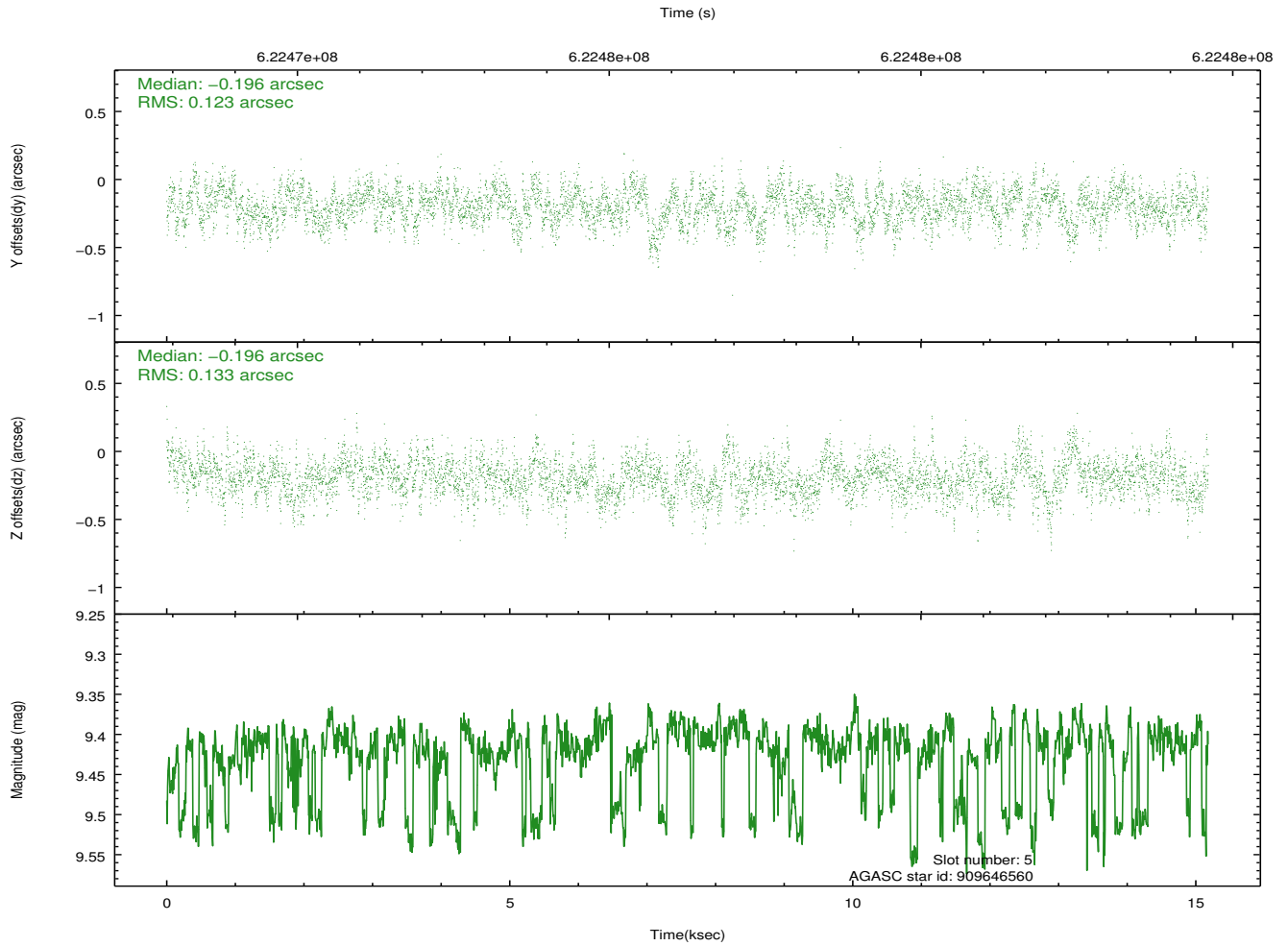
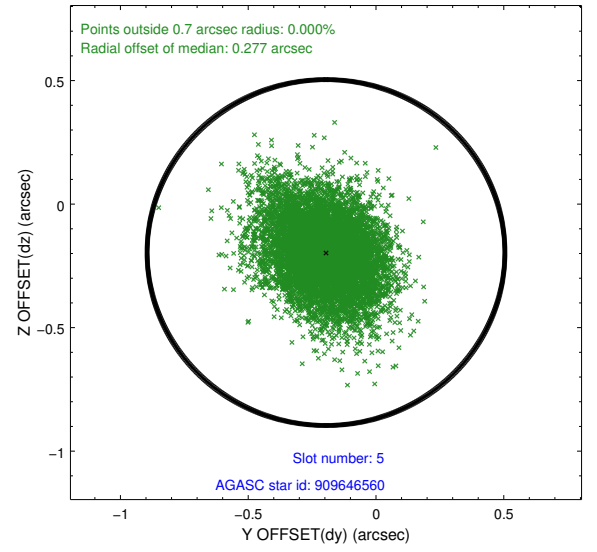
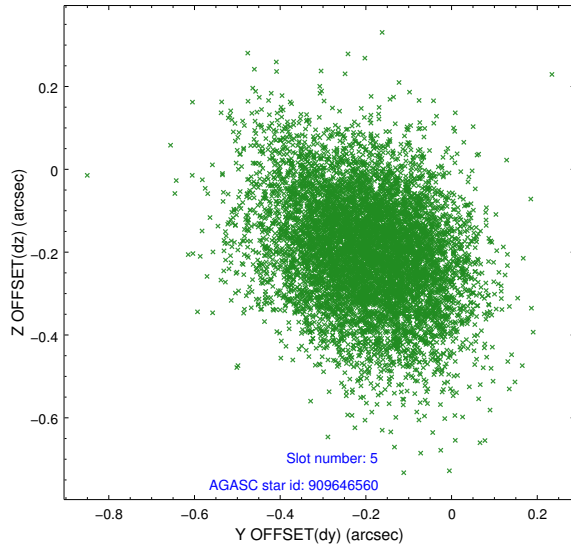
2.4.1 Slot 3



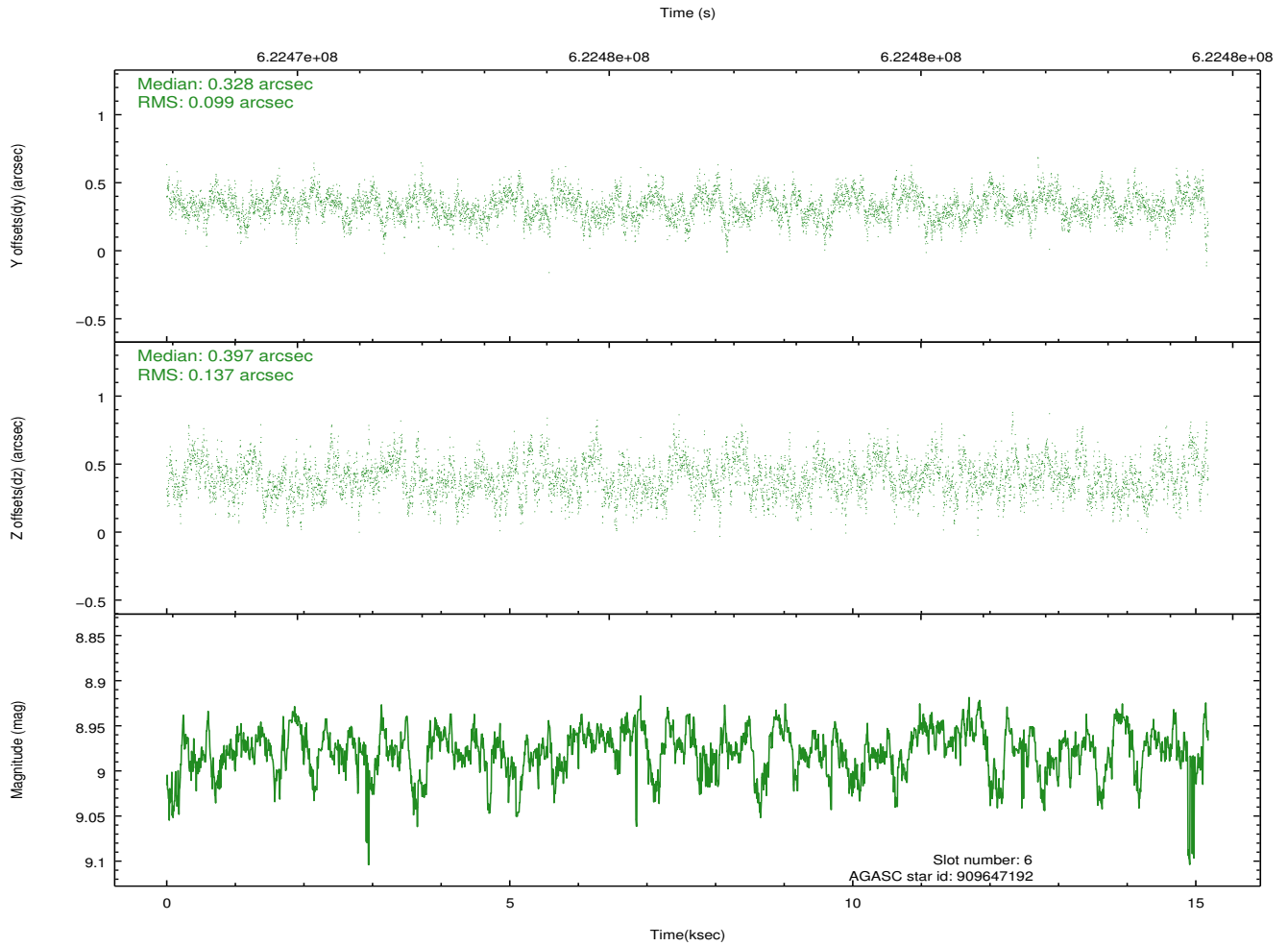
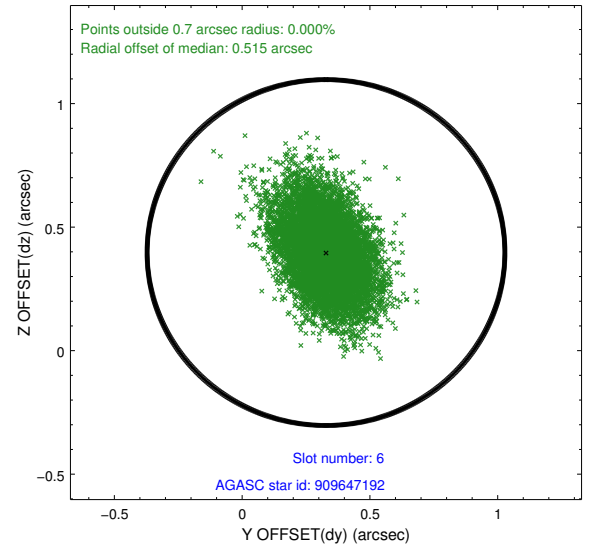
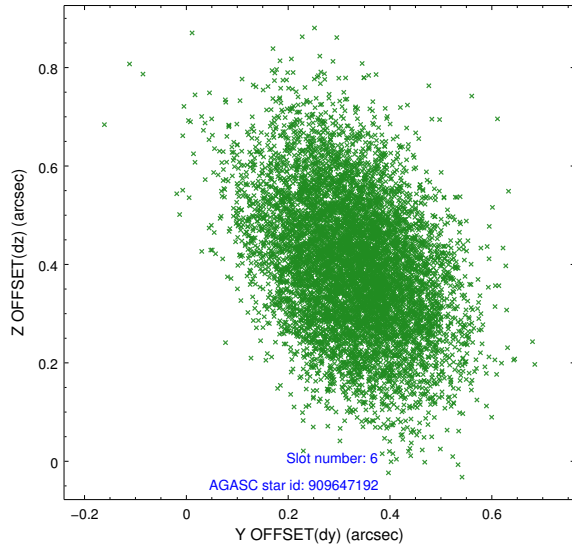
2.4.2 Slot 4



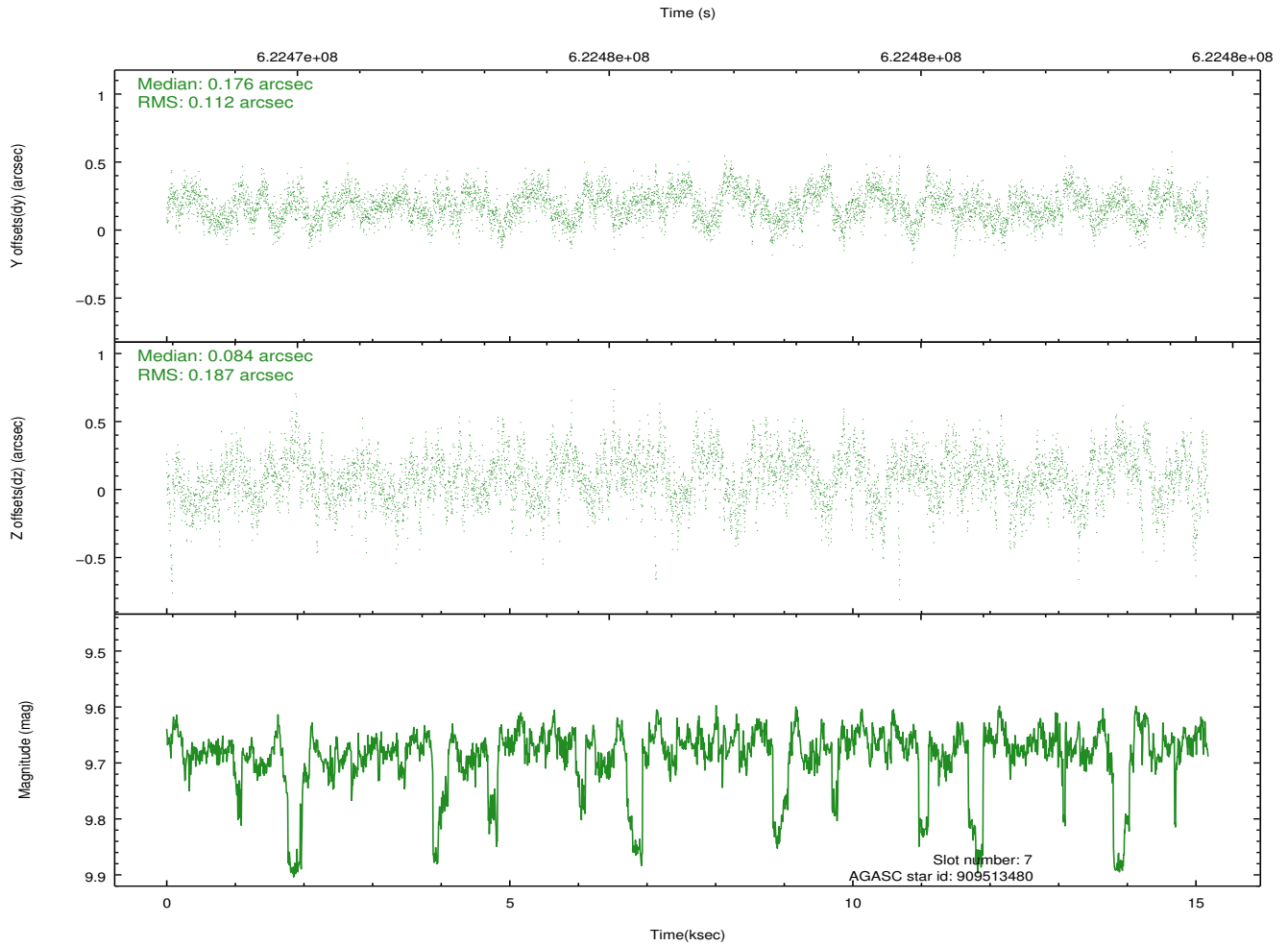
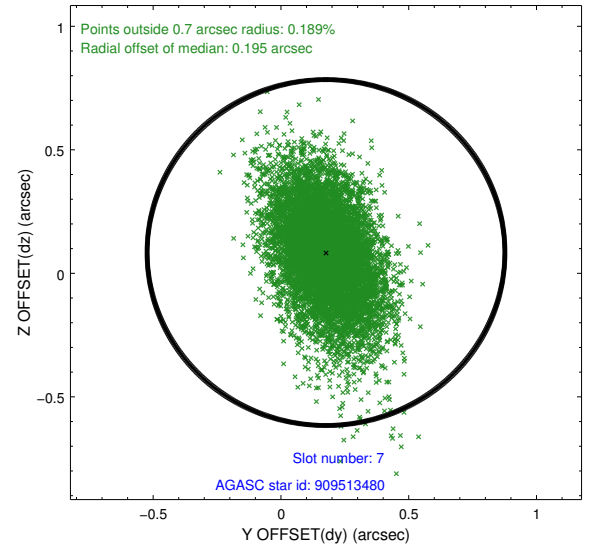
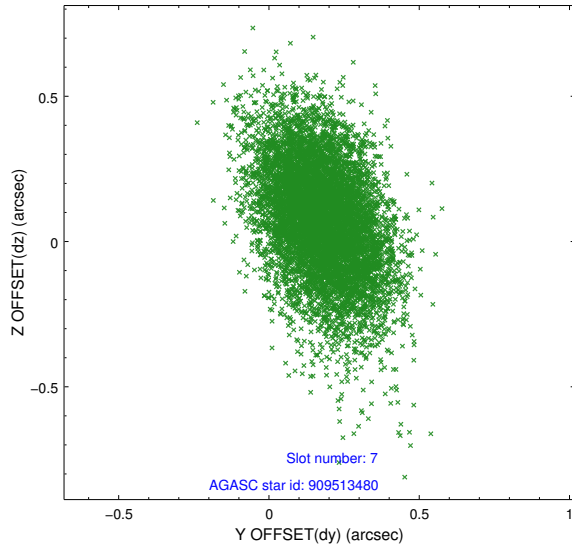
2.4.3 Slot 5



2.4.4 Slot 6

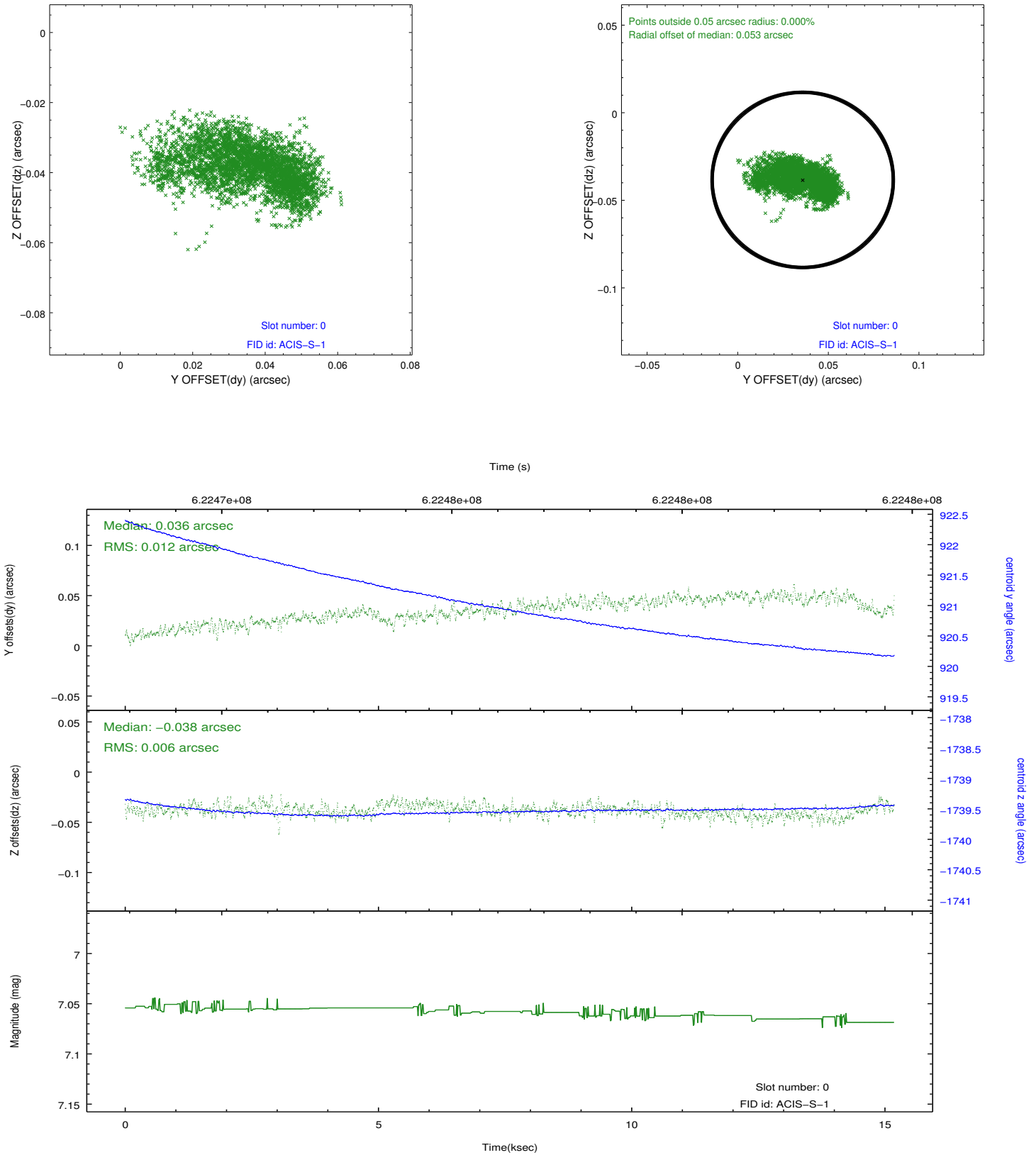


2.4.5 Slot 7

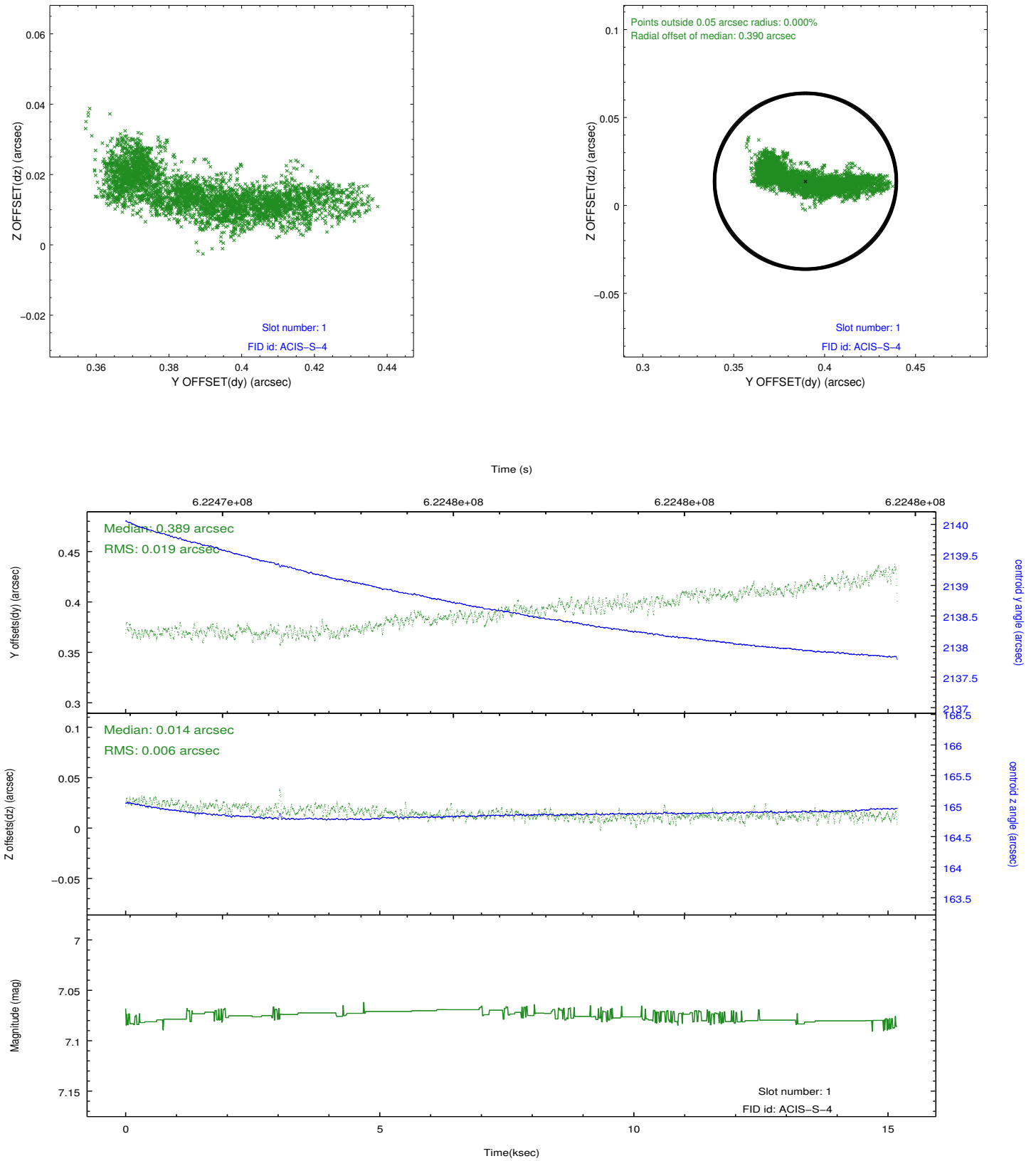


2.5 FID Slots

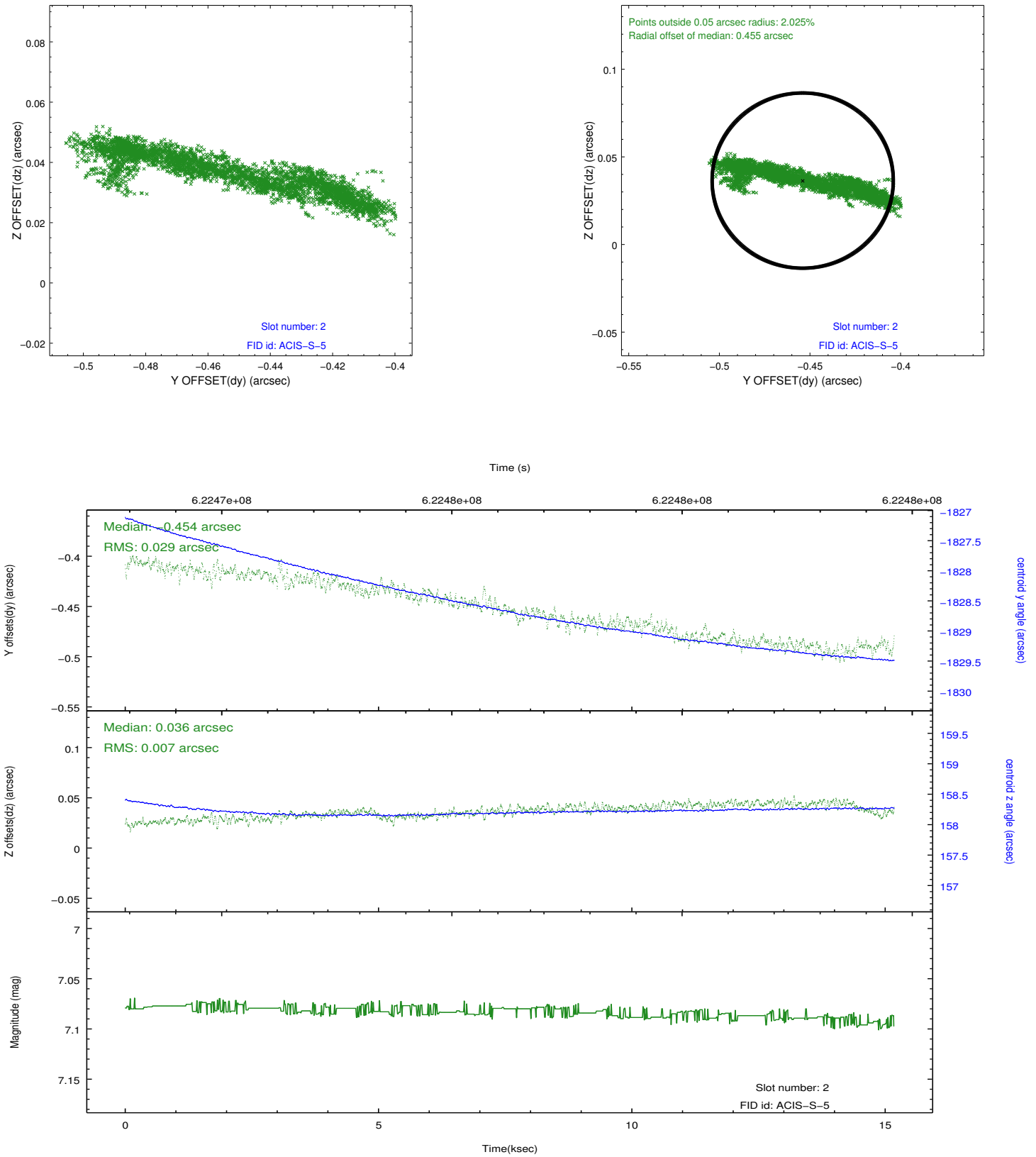
2.5.1 Slot 0



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)	2017.09.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.060783124328

A.2 Comments