

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 18949 - L2 Version 1
Chandra X-Ray Center

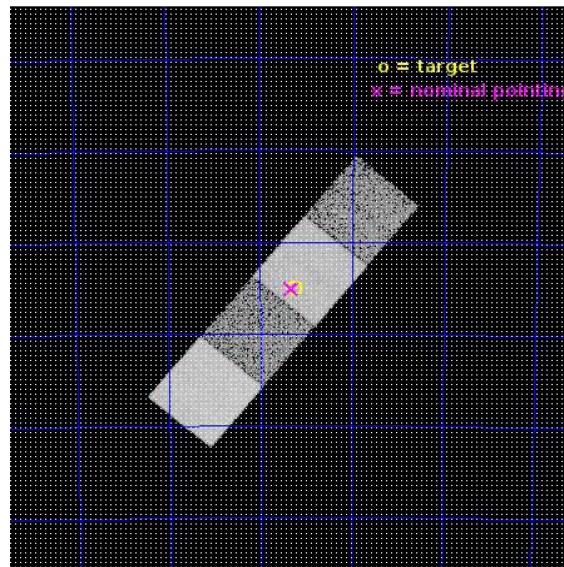
L2 Processing Date : Aug 20 2017

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1 Front

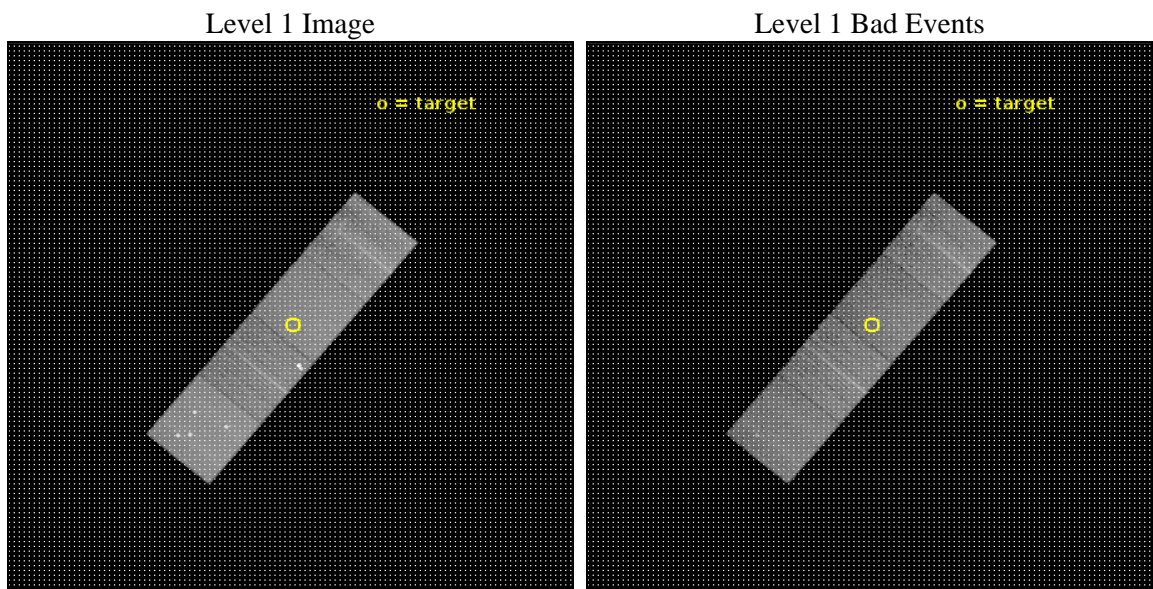
seq_num	201142	Sequence number
obs_id	18949	Observation id
title	Probing the Dynamo Mechanism in Fully Convective Stars	Proposal ti
observer	Nicholas Wright	Principal investigator
object	2MASS J18551471-7115026	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	283.810833	Observer's specified target RA [deg]
dec_targ	-71.2515	Observer's specified target Dec [deg]
ra_nom	283.82961036974	Nominal RA [deg]
dec_nom	-71.251827932733	Nominal Dec [deg]
roll_nom	309.66843378397	Nominal Roll [deg]
revision	1	Processing version of data
ontime	13429.200103402	Sum of GTIs [s]
livetime	13253.737717618	Livetime [s]
ontime5	13429.200103402	Sum of GTIs [s]
ontime6	13429.200103402	Sum of GTIs [s]
ontime7	13429.200103402	Sum of GTIs [s]
ontime8	13426.059032917	Sum of GTIs [s]
l2events	132615	Number of level 2 events



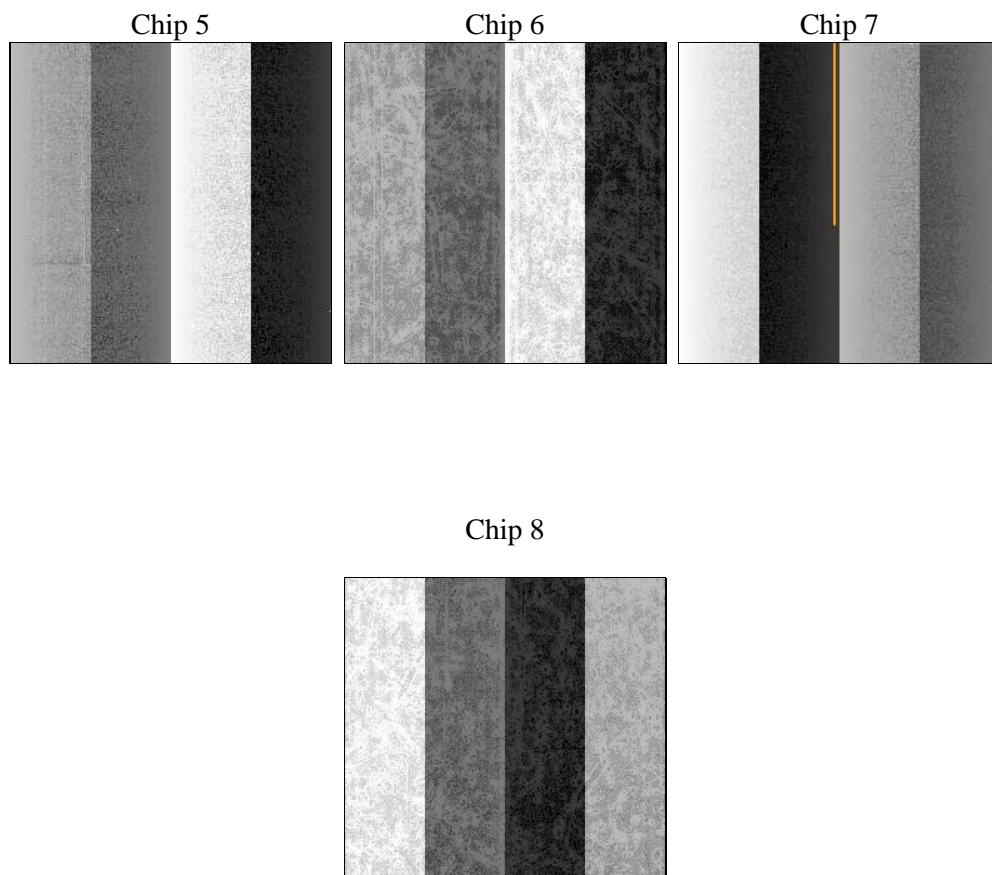
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	13366.335000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	13429.200103402	Sum of GTIs [s]
caldsver	4.7.5	 	ontime5	13429.200103402	Sum of GTIs [s]
date	2017-08-21T01:06:53	Date and time of file creation	ontime6	13429.200103402	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	13429.200103402	Sum of GTIs [s]
			ontime8	13426.059032917	Sum of GTIs [s]
			l1events	495571	Number of level 1 events

2.1.4 Events

	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	155877	108996	115917	114781
rejected events	73413	81837	65861	85443
rejected %	47%	75%	56%	74%

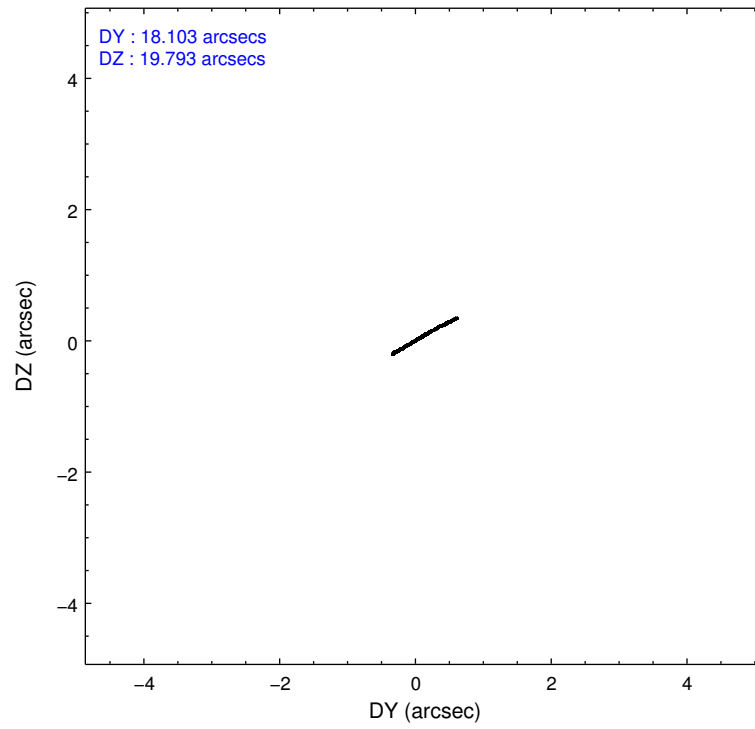
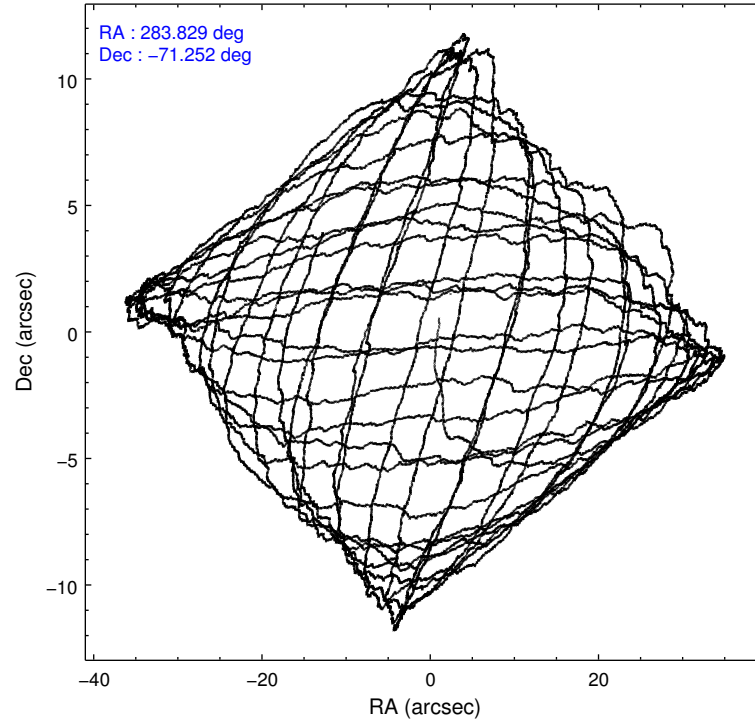
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	16960	11608	4287	8245
	10%	10%	3%	7%
grade 1 events	775	76	124	76
	0%	0%	0%	0%
grade 2 events	23630	10995	10315	7057
	15%	10%	8%	6%
grade 3 events	1980	1034	4027	3053
	1%	0%	3%	2%
grade 4 events	1955	980	3920	2918
	1%	0%	3%	2%
grade 5 events	9403	4278	11538	6414
	6%	3%	9%	5%
grade 6 events	37956	2546	27519	8066
	24%	2%	23%	7%
grade 7 events	63218	77479	54187	78952
	40%	71%	46%	68%

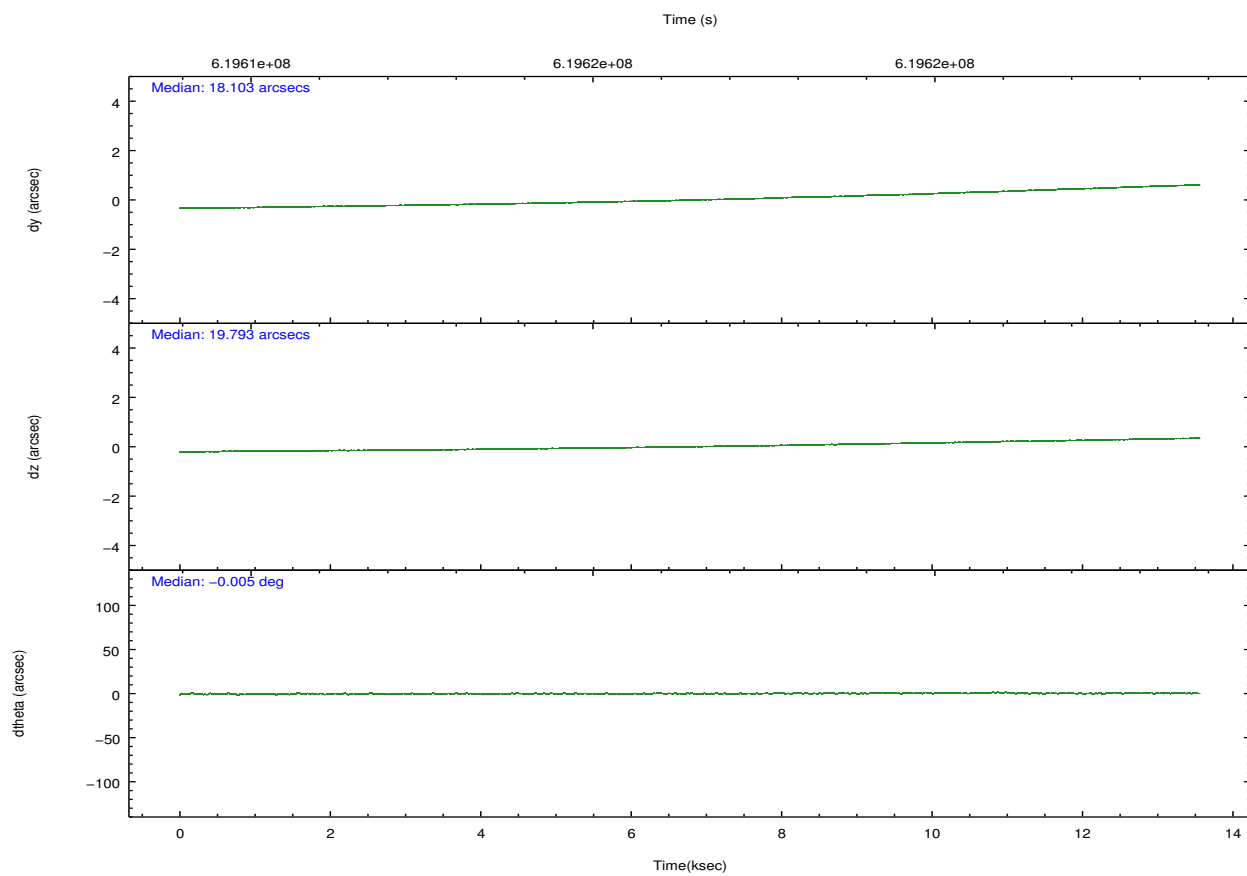
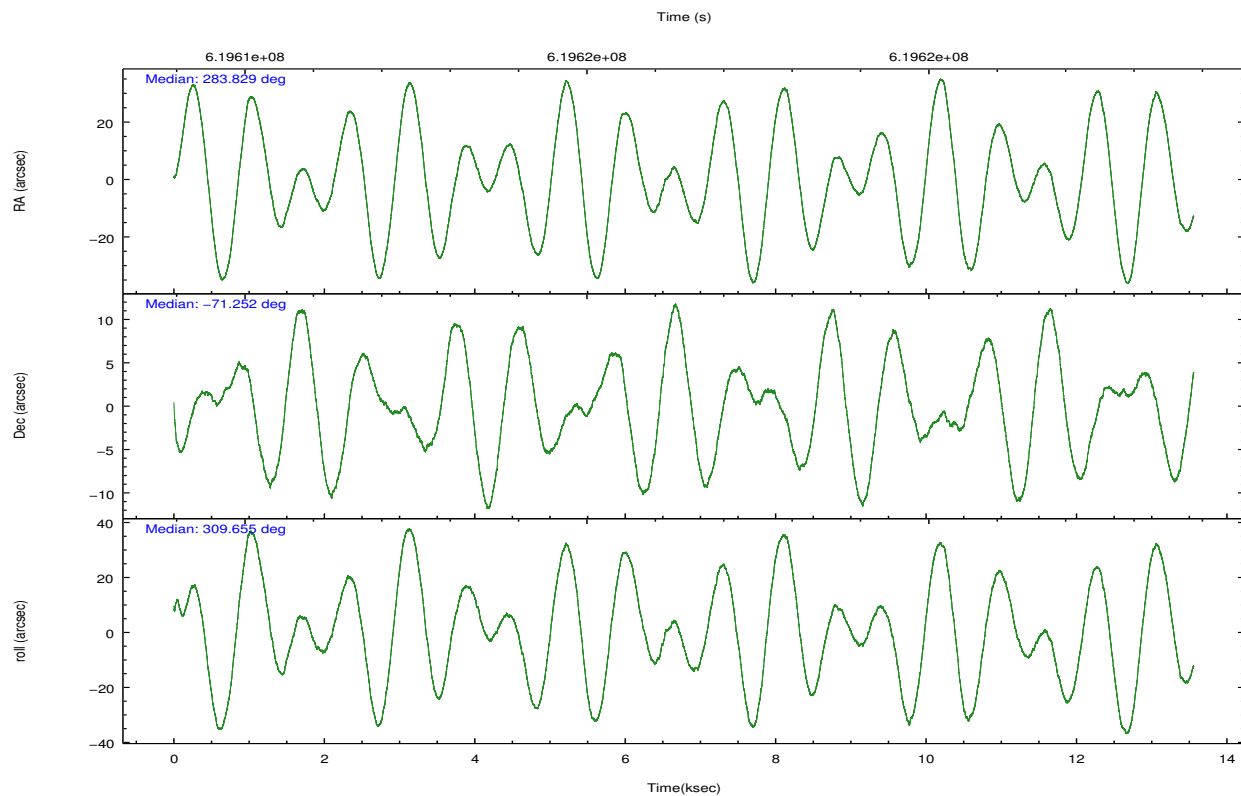
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-5678	ACIS-5678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	283.749122	283.8296103697428
[deg] Pointing Dec	-71.242577	-71.25182793273257
[deg] Pointing Roll	309.435572	309.66843378397
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1425803651734
[mm] SIM translation stage offset	0	0.01005778216563158
[s] Observation start time (MET)	619609839.184000	619608942.17541
Observation start date	2017-08-20T09:49:30	2017-08-20T09:35:42
[s] Observation end time (MET)	619623205.184000	619623432.6012599
Observation end date	2017-08-20T13:32:16	2017-08-20T13:37:12
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	O1	N
CCD I3 on	O2	N
CCD S0 on	N	N
CCD S1 on	Y	Y
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	N	N
Number of optional ACIS chips dropped	2	2
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



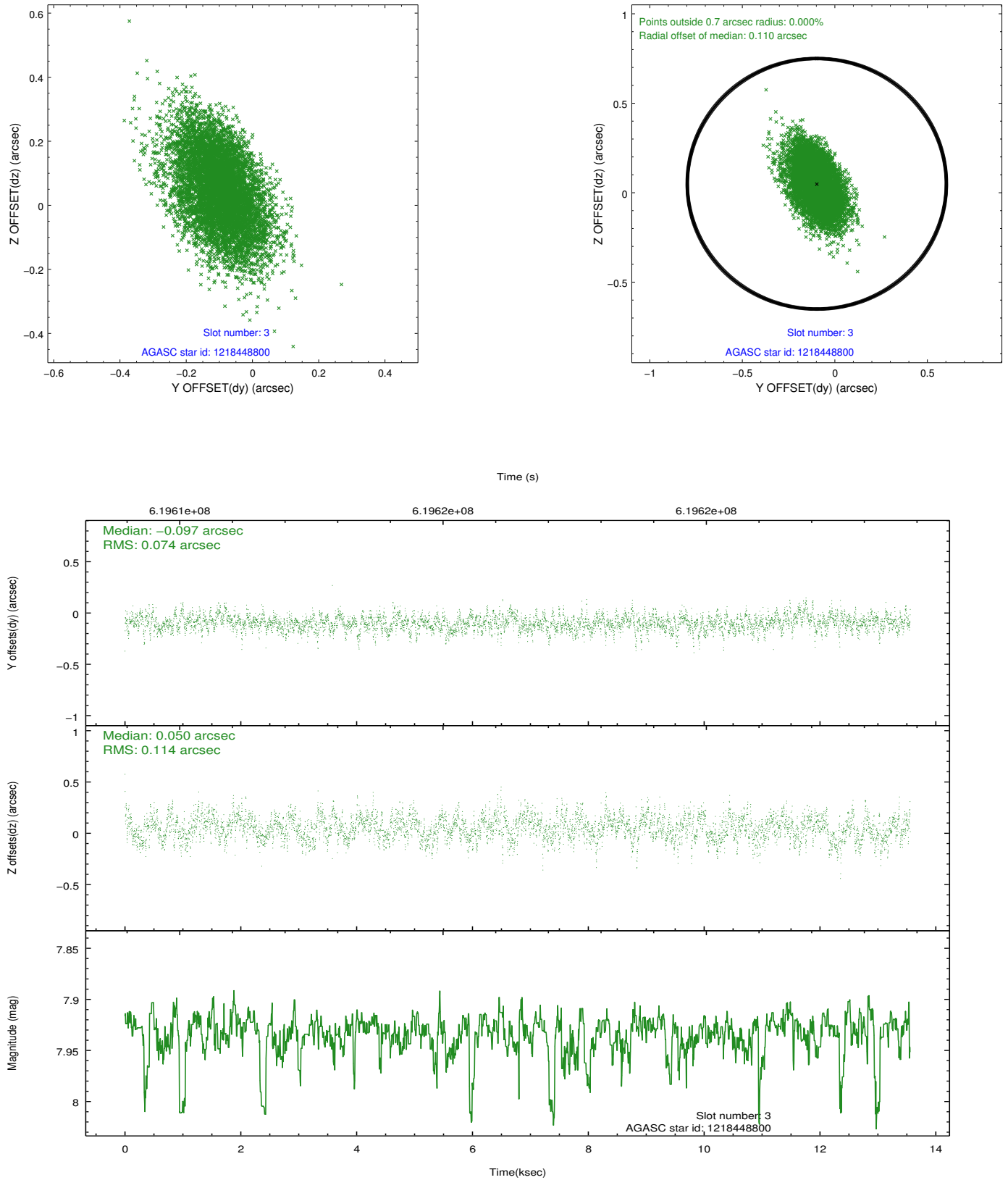


Slot Statistics

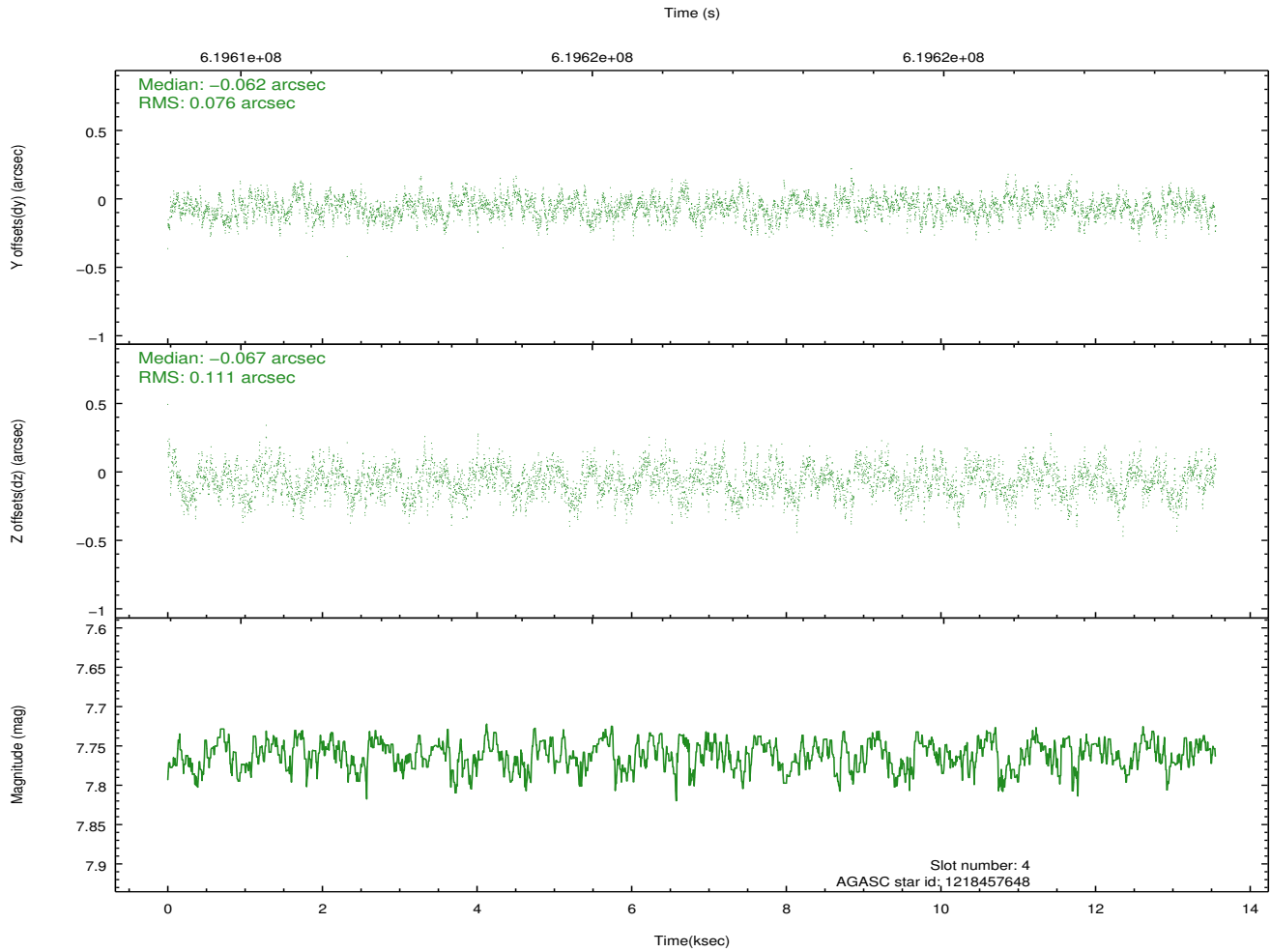
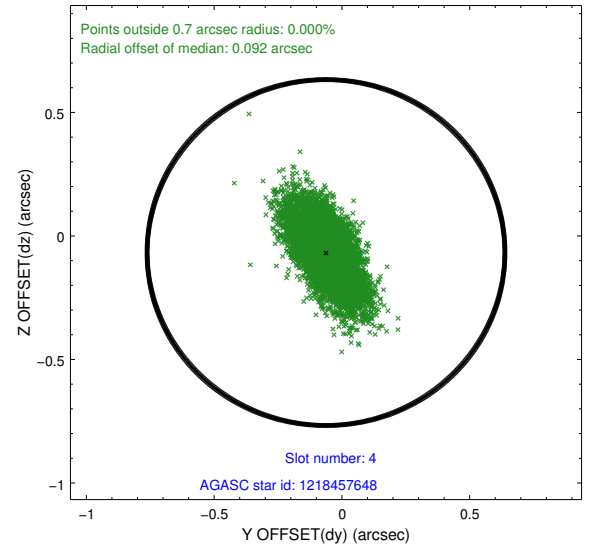
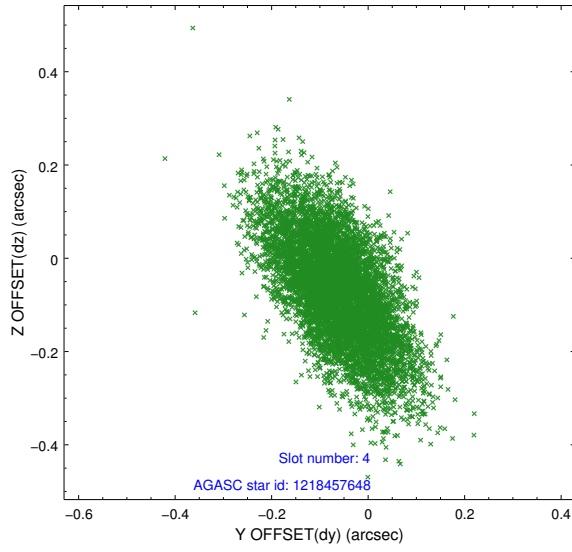
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.09	3307	-0.219	-0.127	0.014	0.032	0.000000	0.000000	-771.38	-1741.42
1	FID		ACIS-S-4	7.21	3307	0.556	0.140	0.016	0.028	0.000000	0.000000	2142.47	167.03
2	FID		ACIS-S-5	7.20	3307	-0.366	-0.005	0.009	0.015	0.000000	0.000000	-1823.97	160.86
3	GUIDE	used	1218448800	7.93	6614	-0.097	0.050	0.140	0.242	284.033974	-70.487092	-1882.25	1991.22
4	GUIDE	used	1218457648	7.76	6611	-0.062	-0.067	0.139	0.243	283.891092	-71.067459	-381.17	528.61
5	GUIDE	used	1218458968	9.51	6601	0.035	0.222	0.221	0.431	283.491513	-71.187318	-342.69	-104.53
6	GUIDE	used	1218970360	7.60	6614	-0.029	-0.519	0.140	0.237	284.275706	-71.298079	542.52	340.62
7	GUIDE	used	1218975416	9.53	6604	0.160	0.291	0.180	0.318	282.042827	-71.513376	-462.44	-2140.56

2.4 Star Slots

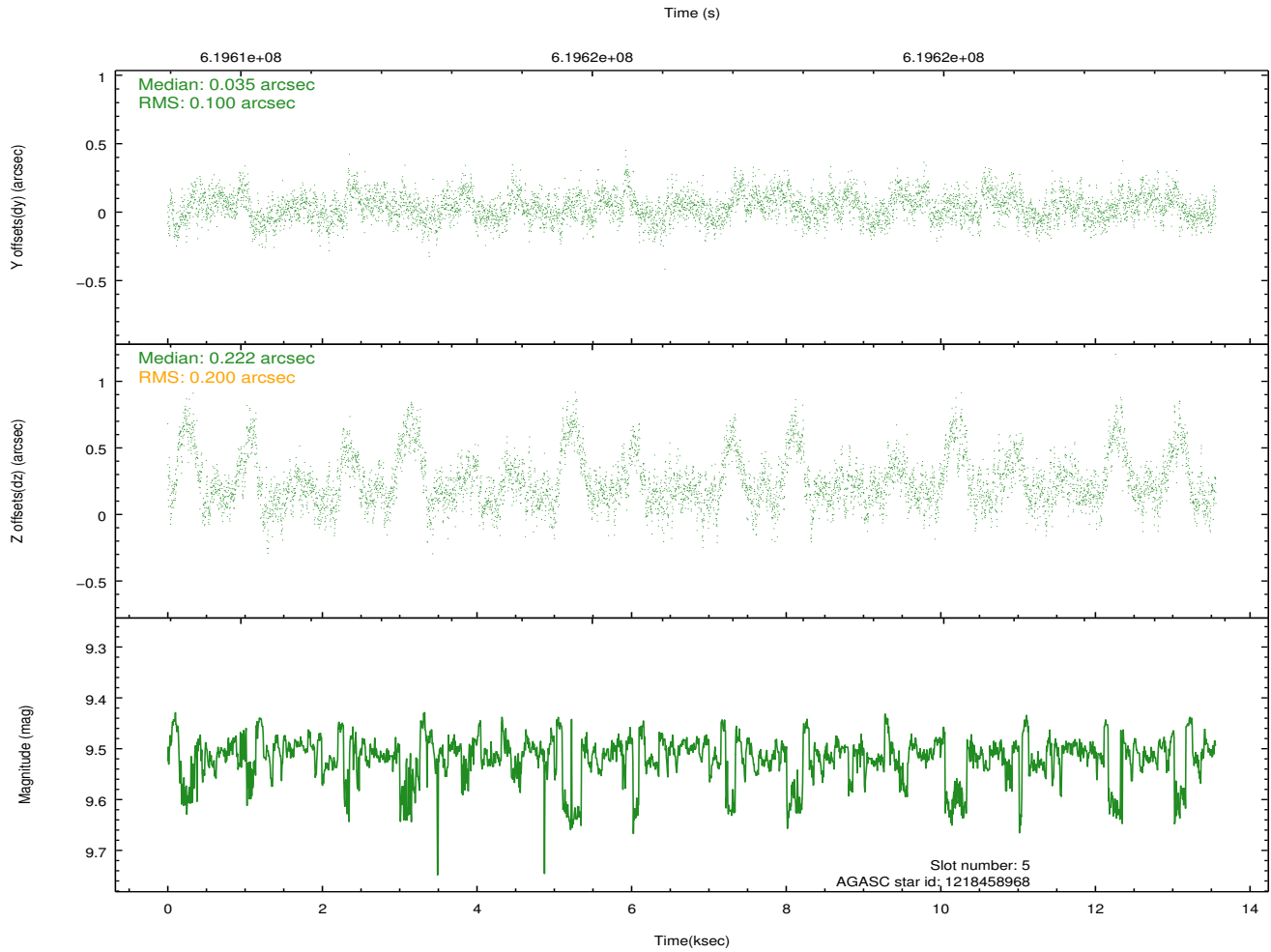
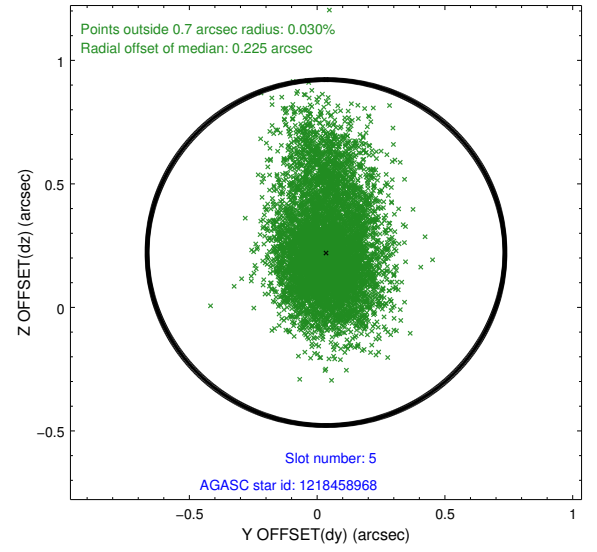
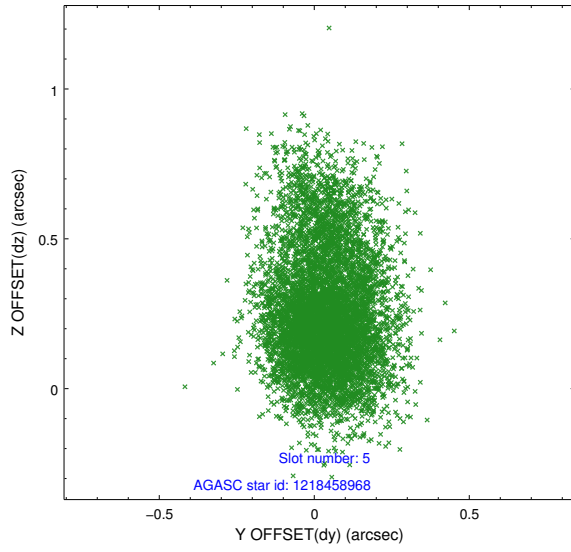
2.4.1 Slot 3



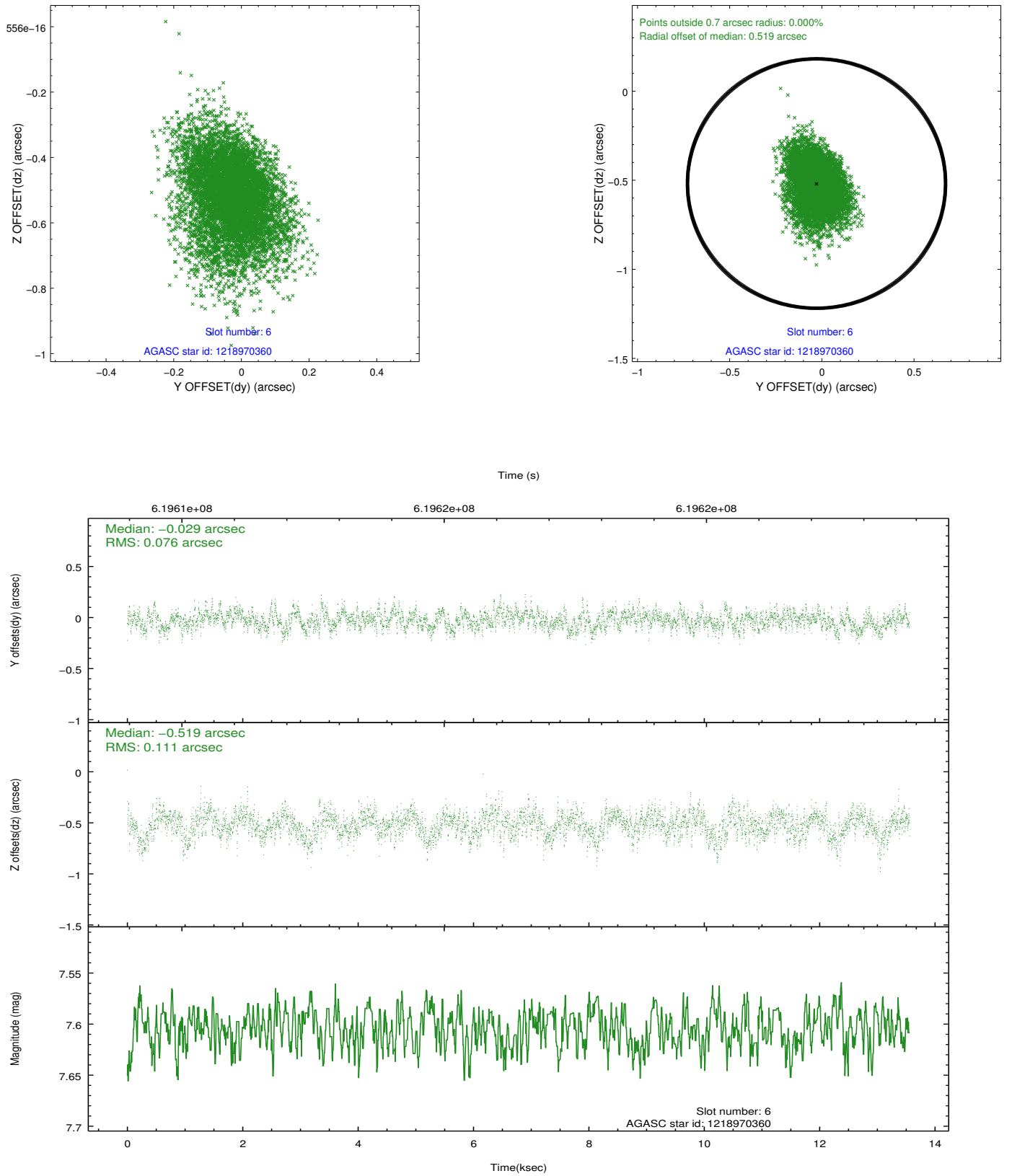
2.4.2 Slot 4



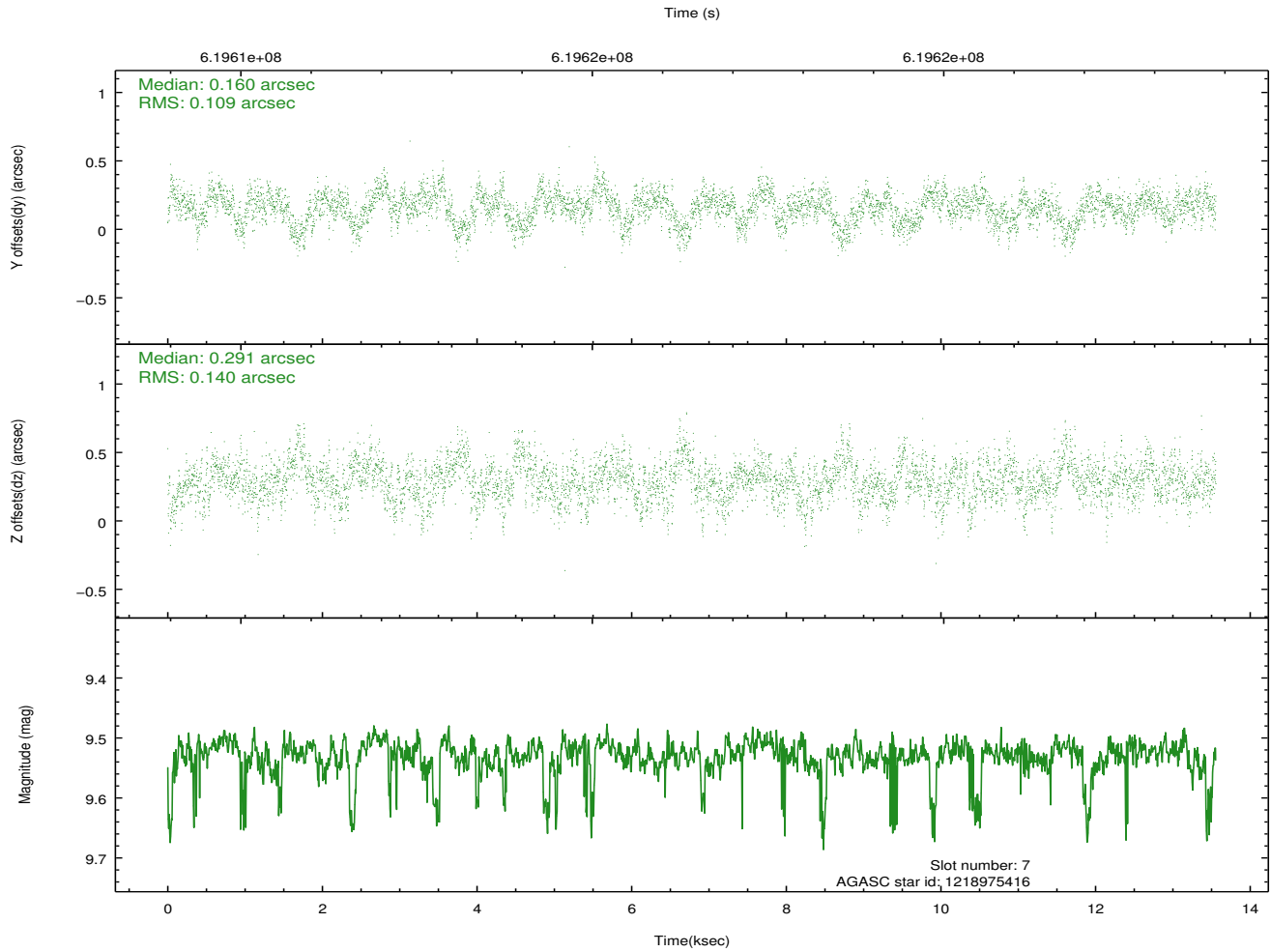
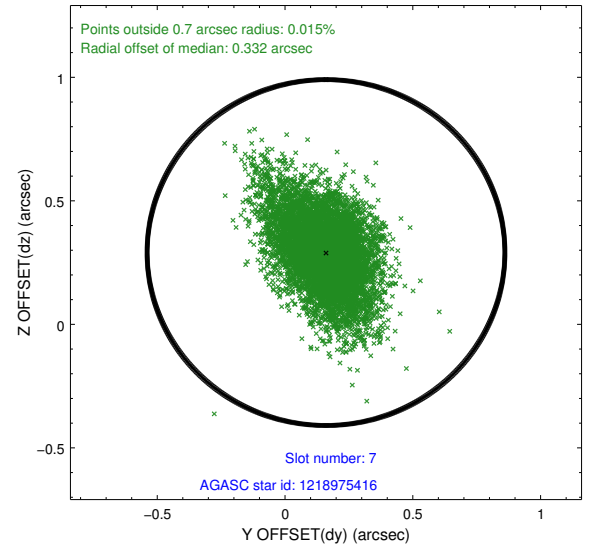
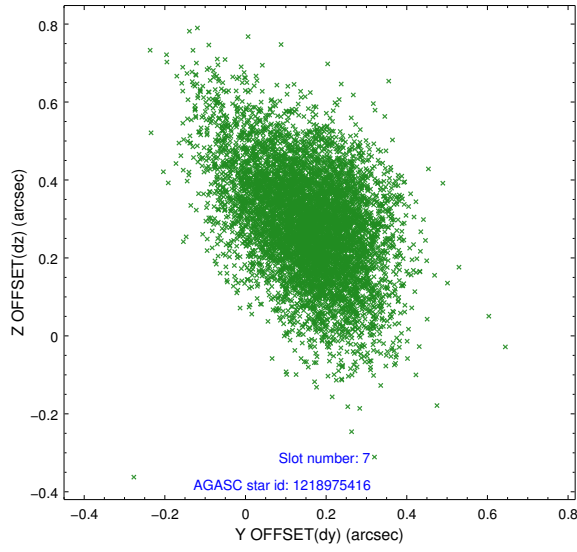
2.4.3 Slot 5



2.4.4 Slot 6

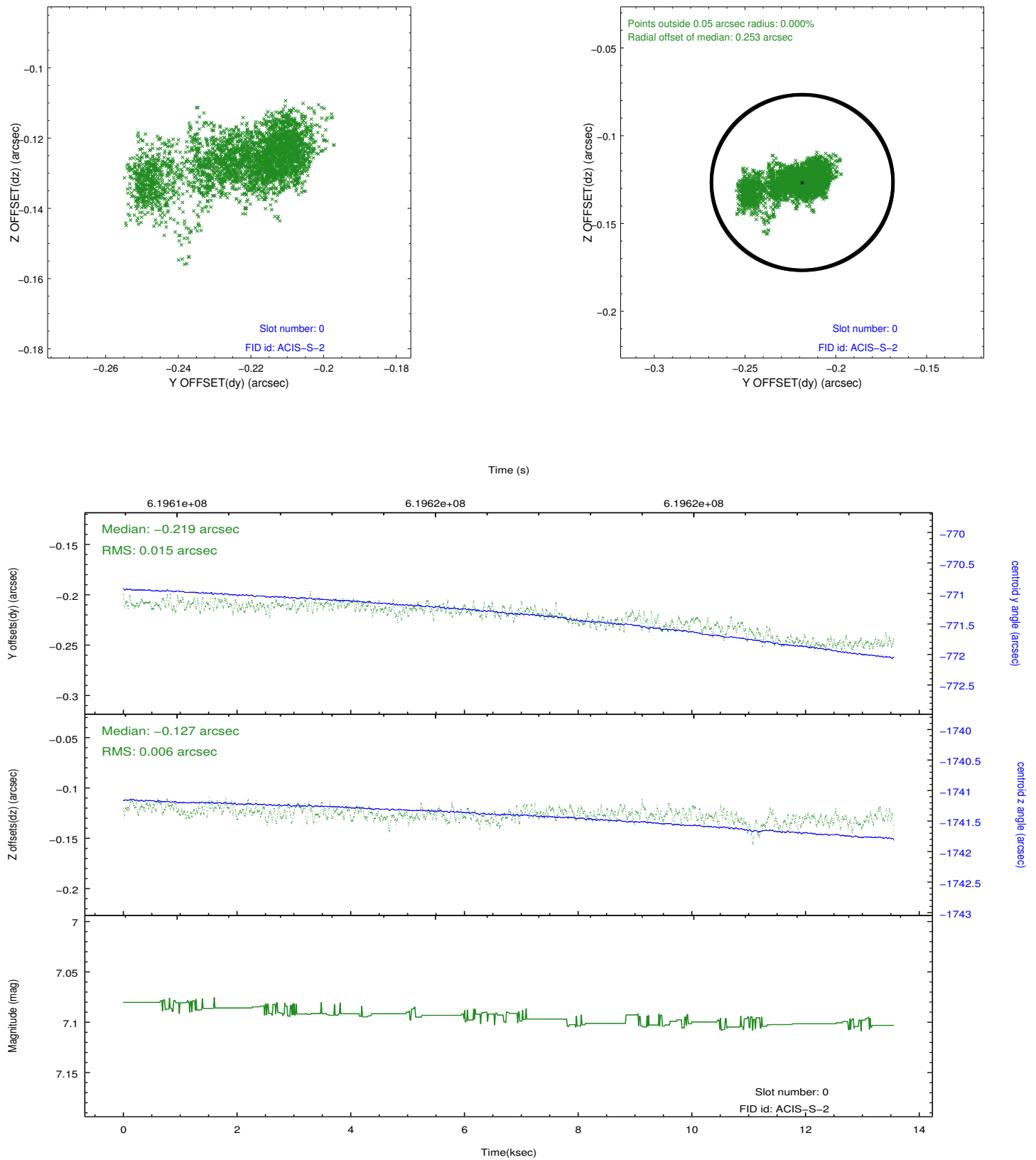


2.4.5 Slot 7

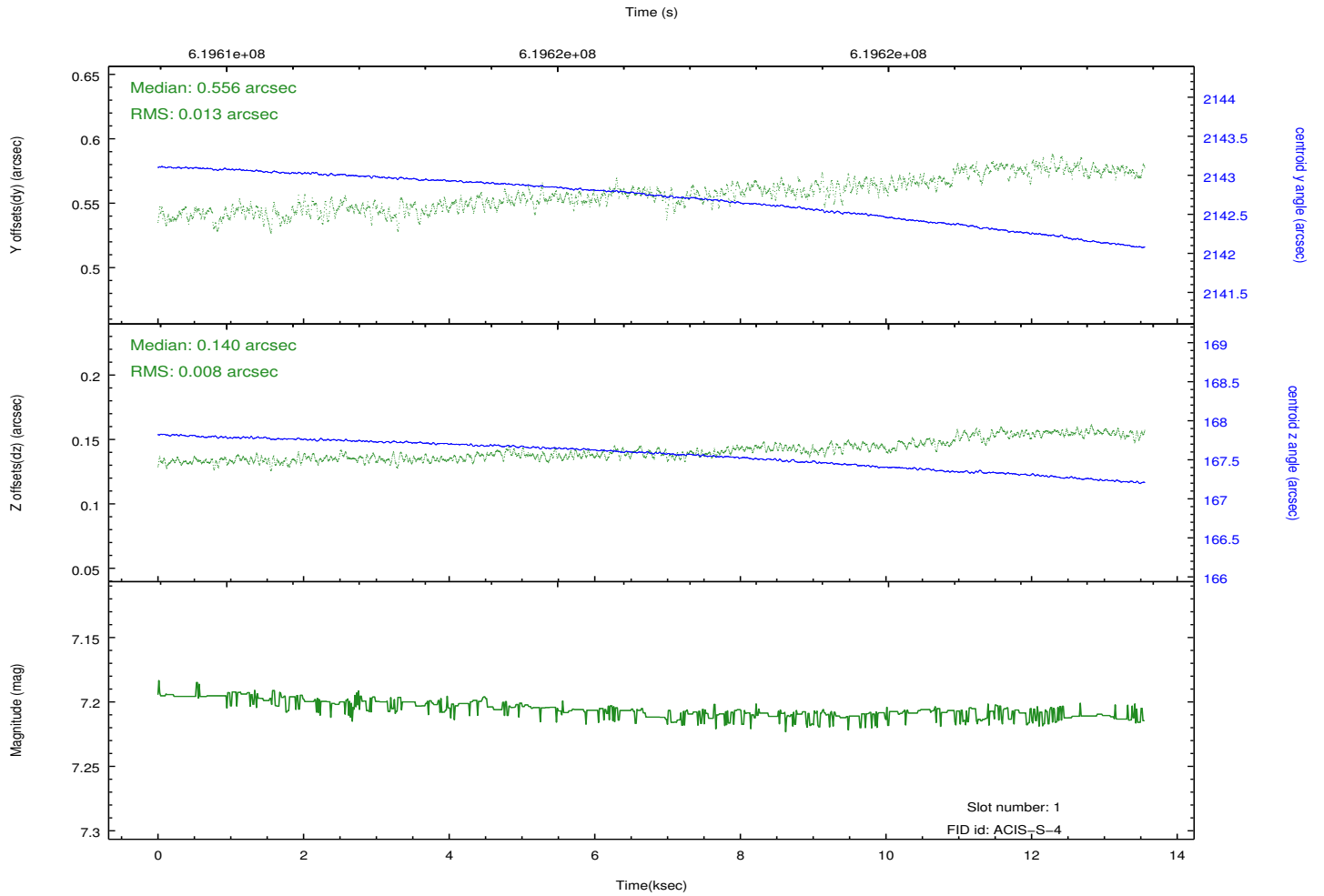
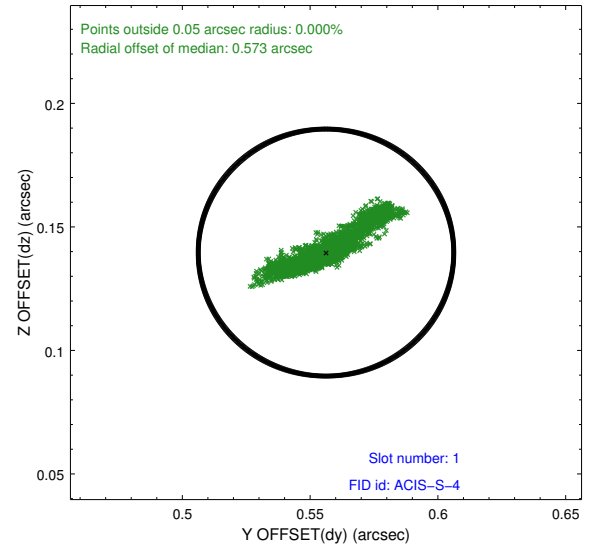
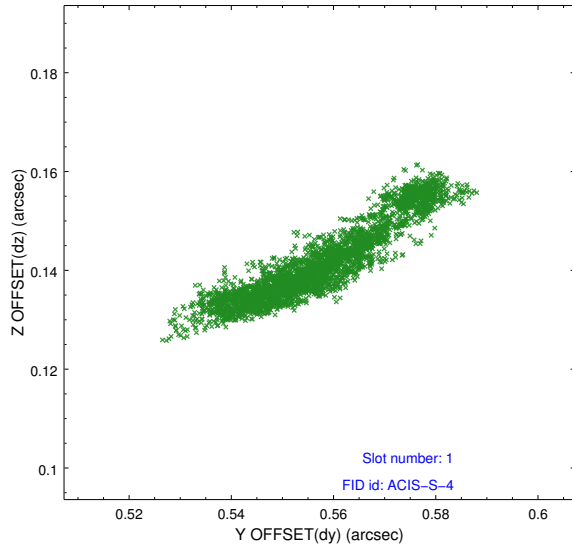


2.5 FID Slots

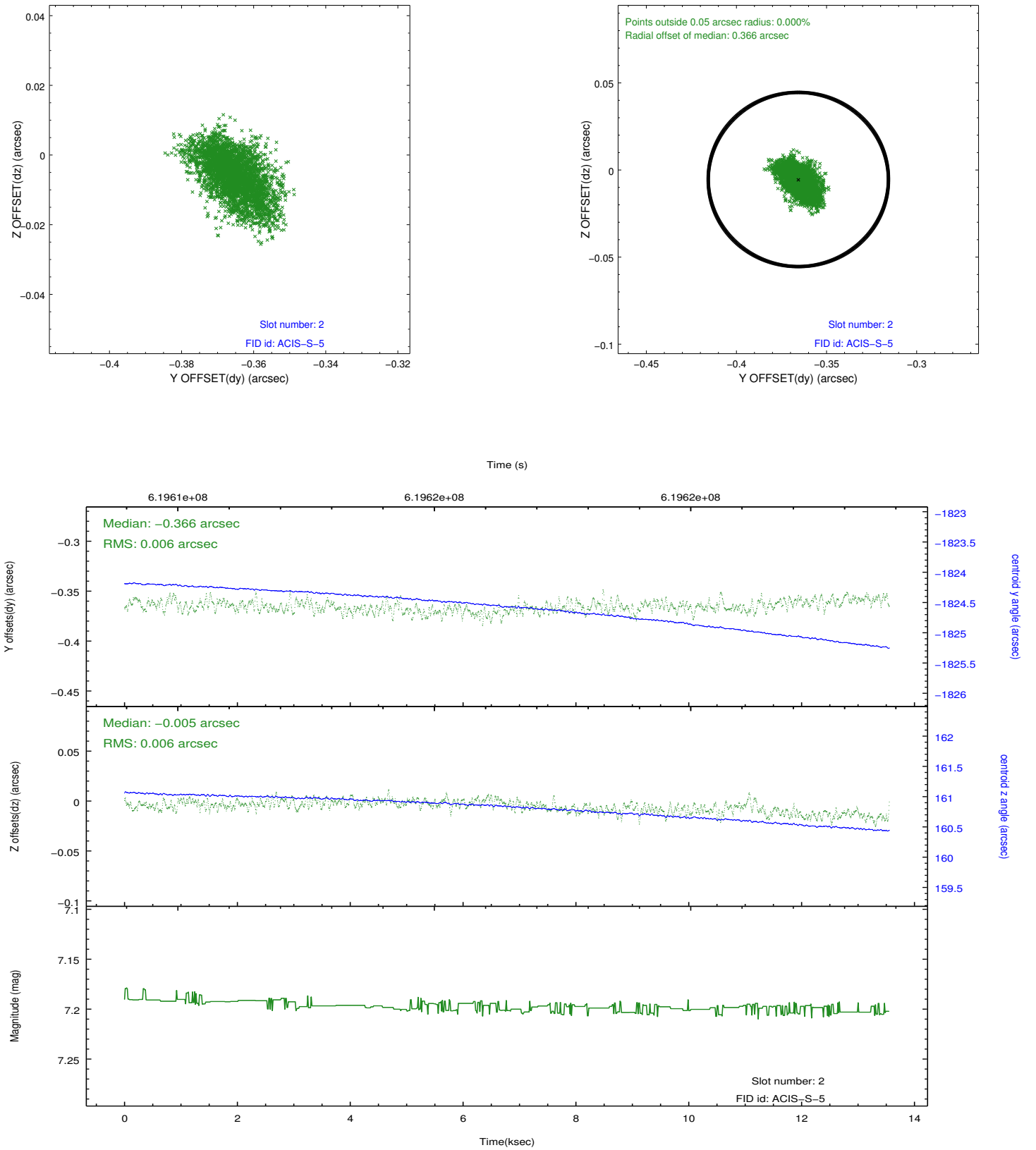
2.5.1 Slot 0



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)	2017.08.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	13.429200103402

A.2 Comments