

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 18903 - L2 Version 1
Chandra X-Ray Center

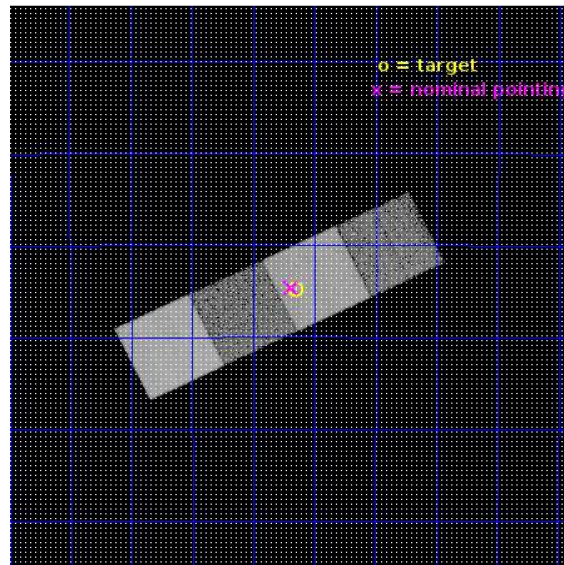
L2 Processing Date : Mar 9 2017

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1 Front

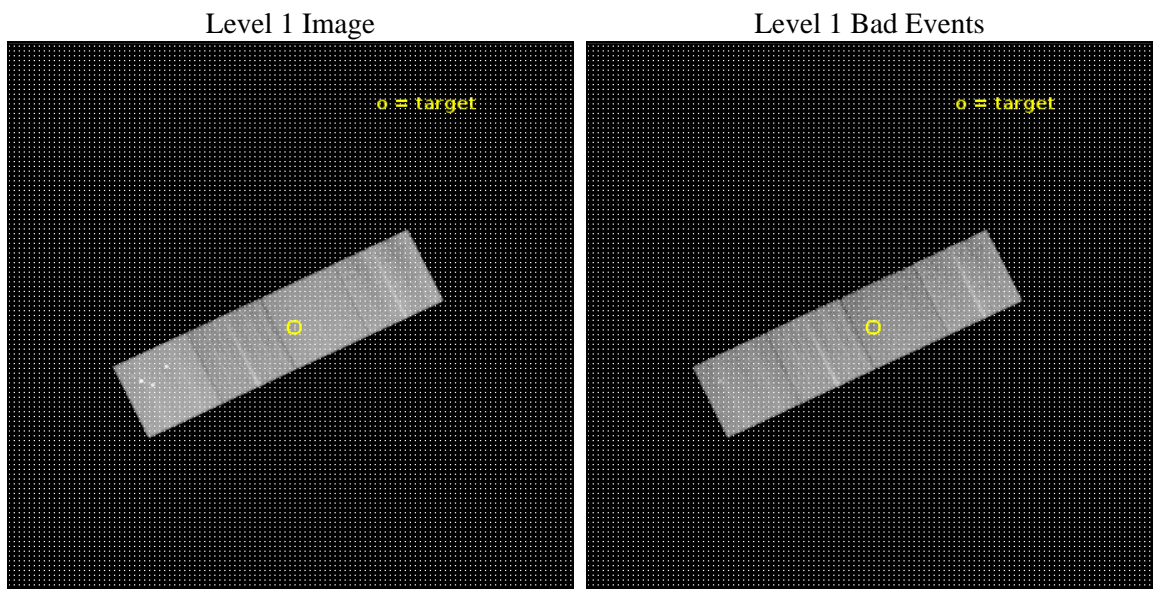
seq_num	201096	Sequence number
obs_id	18903	Observation id
title	X-rays from Young Low-Mass Stars: Inhospitable Habitable Zones?	Pr
observer	Joel Kastner	Principal investigator
object	J1012-3124	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	153.037917	Observer's specified target RA [deg]
dec_targ	-31.412583	Observer's specified target Dec [deg]
ra_nom	153.04704597558	Nominal RA [deg]
dec_nom	-31.410393937136	Nominal Dec [deg]
roll_nom	334.0947382795	Nominal Roll [deg]
revision	1	Processing version of data
ontime	20060.1001544	Sum of GTIs [s]
livetime	19798.000177852	Livetime [s]
ontime5	20060.1001544	Sum of GTIs [s]
ontime6	20060.1001544	Sum of GTIs [s]
ontime7	20060.1001544	Sum of GTIs [s]
ontime8	20056.959084392	Sum of GTIs [s]
l2events	209882	Number of level 2 events



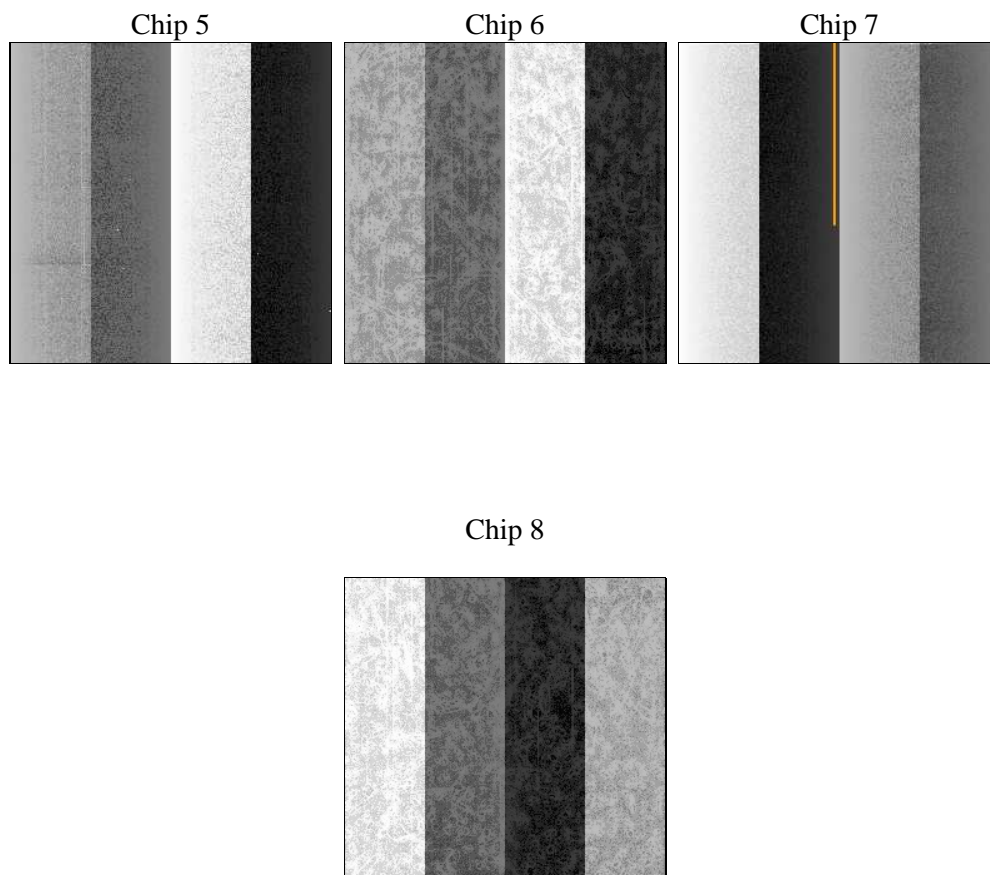
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	20060.1001544	Sum of GTIs [s]
caldsver	4.7.3	 	ontime5	20060.1001544	Sum of GTIs [s]
date	2017-03-09T20:52:08	Date and time of file creation	ontime6	20060.1001544	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	20060.1001544	Sum of GTIs [s]
			ontime8	20056.959084392	Sum of GTIs [s]
			l1events	771333	Number of level 1 events

2.1.4 Events

	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	242158	154031	184127	191017
rejected events	121482	138257	105242	142785
rejected %	50%	89%	57%	74%

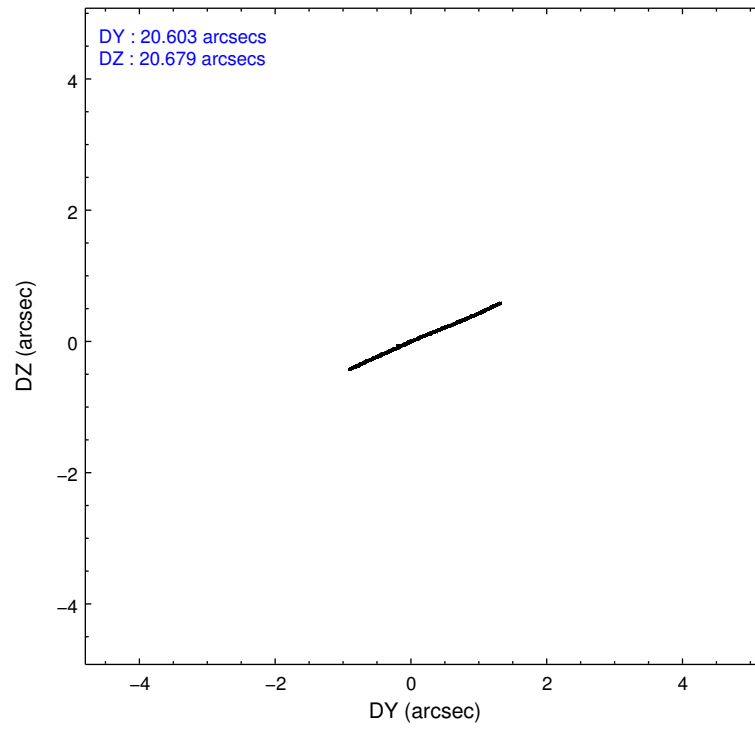
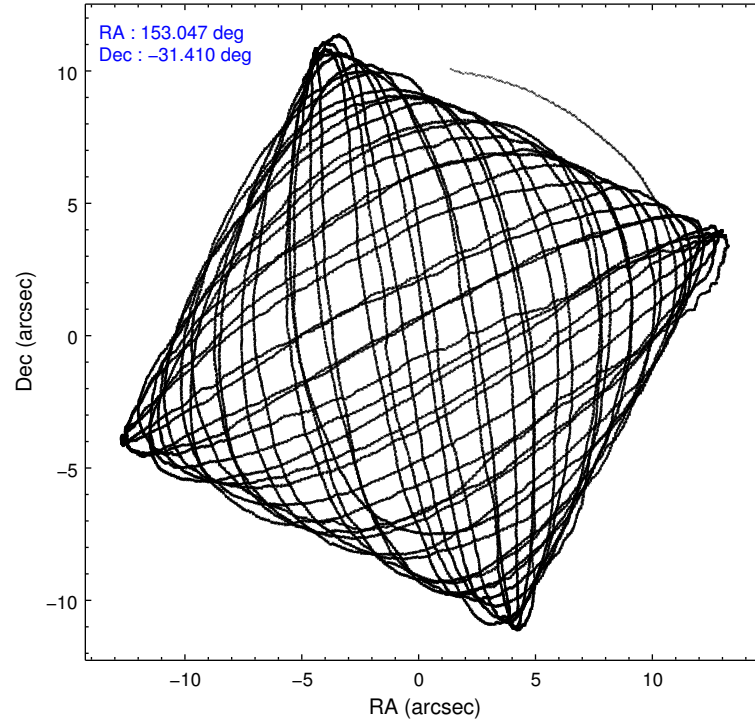
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	15048	4679	6346	13219
	6%	3%	3%	6%
grade 1 events	929	67	247	141
	0%	0%	0%	0%
grade 2 events	38234	4051	16837	12355
	15%	2%	9%	6%
grade 3 events	3101	1448	5666	4735
	1%	0%	3%	2%
grade 4 events	3096	1385	5613	4346
	1%	0%	3%	2%
grade 5 events	14540	6199	16907	9855
	6%	4%	9%	5%
grade 6 events	61234	4214	44450	13588
	25%	2%	24%	7%
grade 7 events	105976	131988	88061	132778
	43%	85%	47%	69%

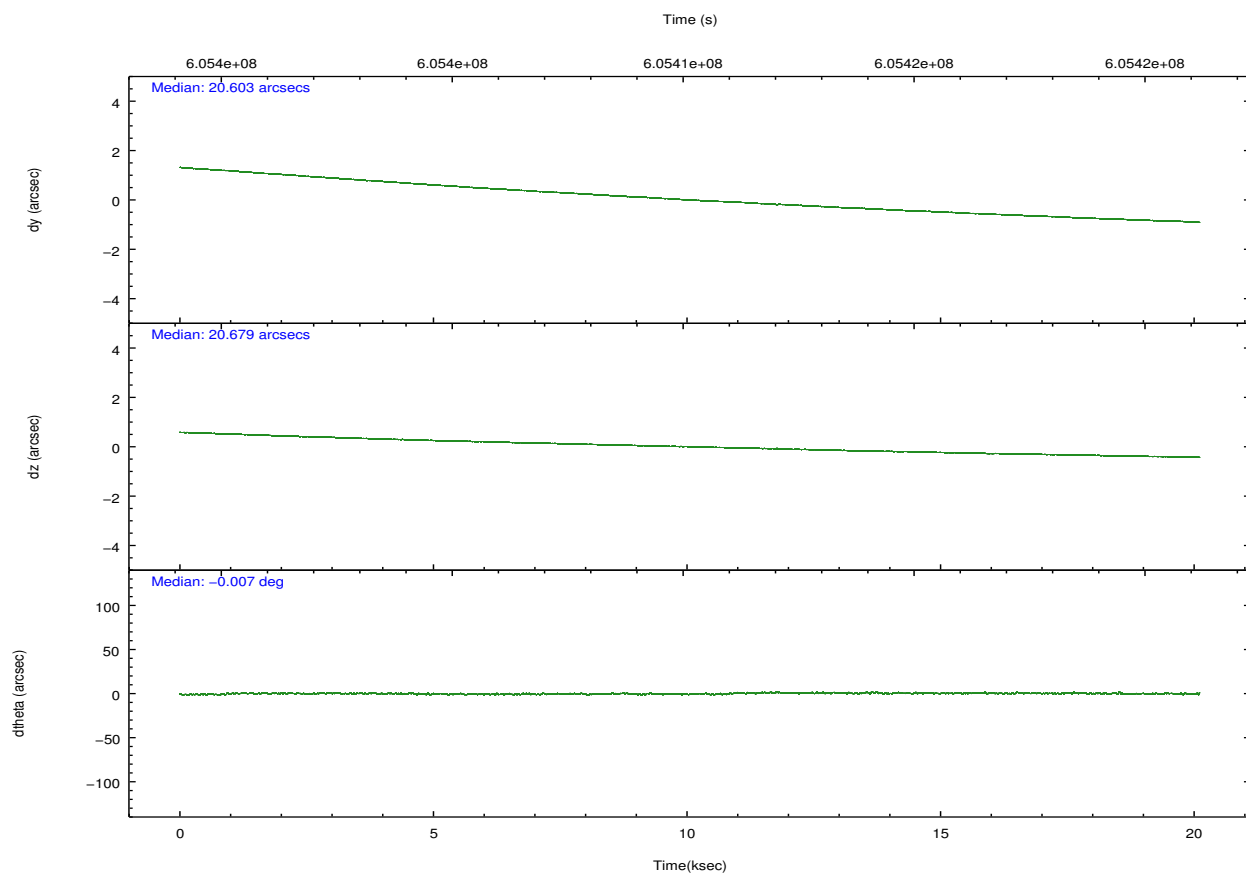
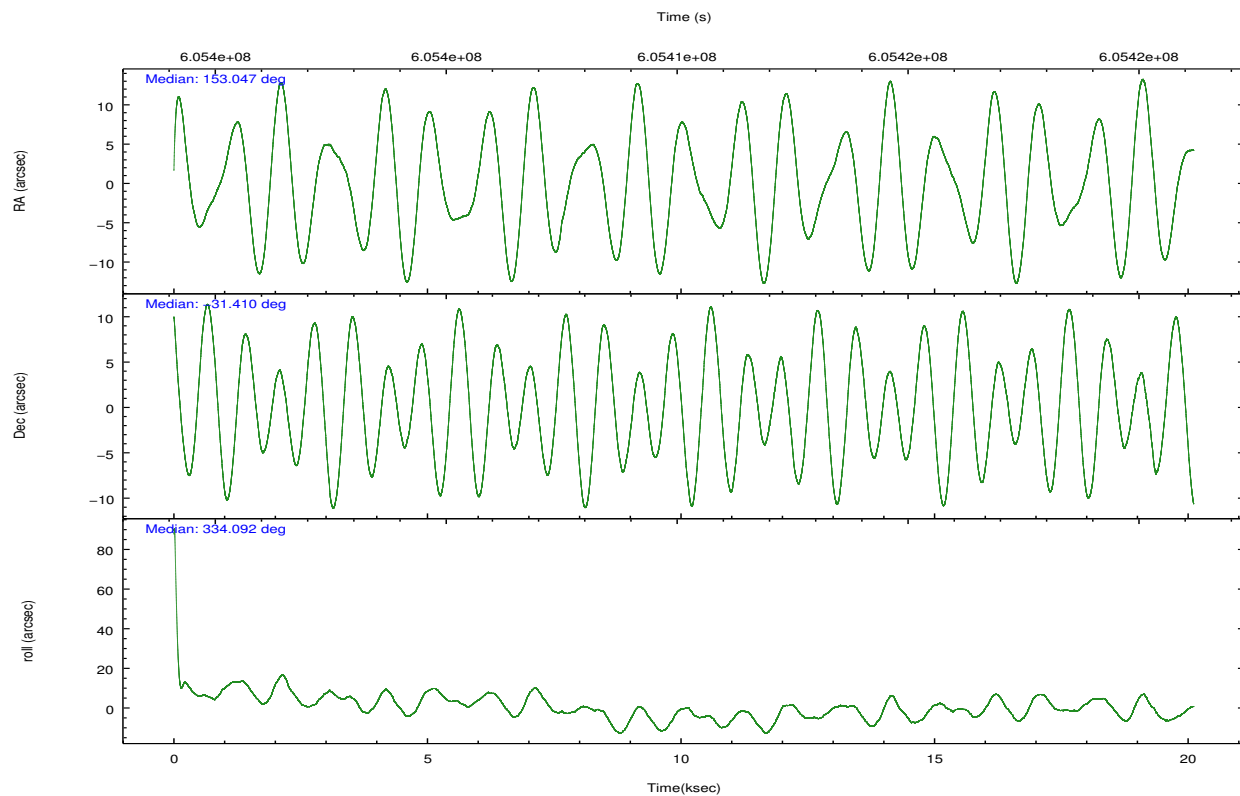
2.2 Compared Parameters

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	153.014994	153.0470459755793
[deg] Pointing Dec	-31.412728	-31.41039393713591
[deg] Pointing Roll	333.921344	334.0947382794988
[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)	605400193.184000	605398533.53585
Observation start date	2017-03-08T22:42:04	2017-03-08T22:15:33
[s] Observation end time (MET)	605420193.184000	605421192.6996599
Observation end date	2017-03-09T04:15:24	2017-03-09T04:33:12
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



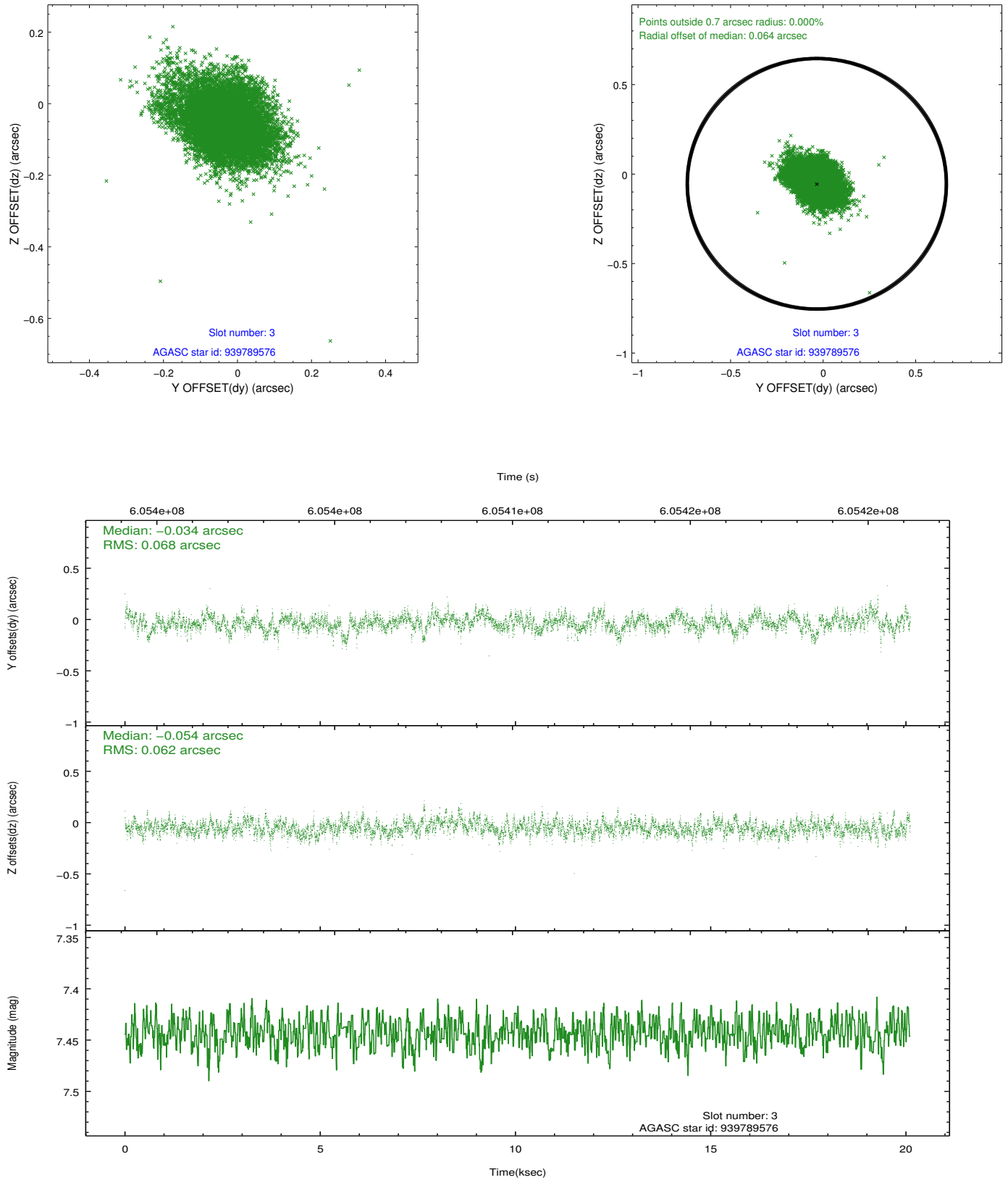


Slot Statistics

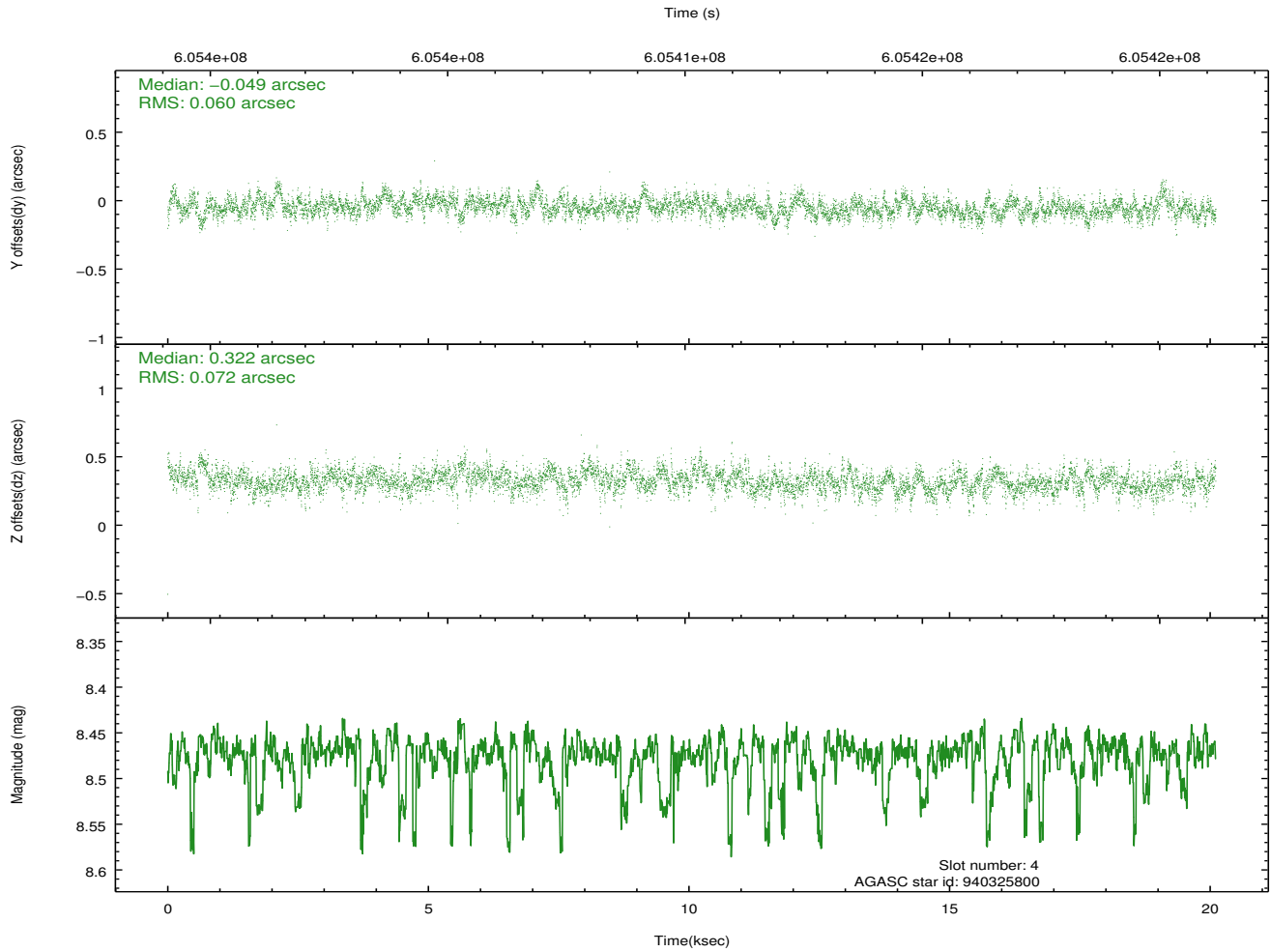
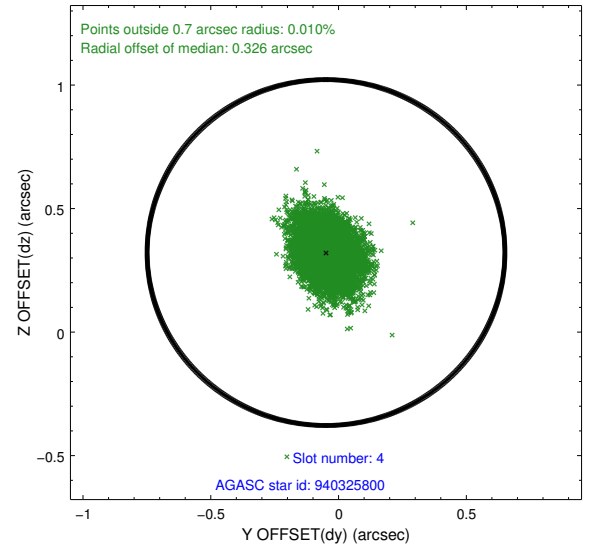
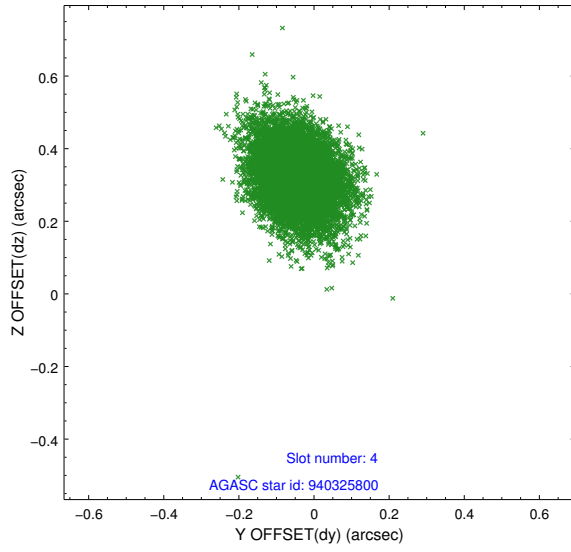
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-4	7.25	4905	0.433	0.010	0.010	0.015	0.000000	0.000000	2139.98	166.60
1	FID		ACIS-S-5	7.25	4905	-0.491	-0.003	0.011	0.022	0.000000	0.000000	-1826.90	159.88
2	FID		ACIS-S-6	7.39	4905	0.031	0.007	0.013	0.022	0.000000	0.000000	387.60	803.74
3	GUIDE	used	939789576	7.44	9804	-0.034	-0.054	0.095	0.163	152.552968	-30.898488	-2093.48	1032.55
4	GUIDE	used	940325800	8.47	9806	-0.049	0.322	0.098	0.166	152.816174	-32.046179	458.23	-2314.78
5	GUIDE	used	941490792	9.33	9798	0.027	-0.367	0.135	0.220	153.335533	-31.437618	924.96	350.71
6	GUIDE	used	941504744	9.65	9793	-0.013	-0.034	0.175	0.281	153.535766	-31.770902	2000.20	-460.66
7	GUIDE	used	942029384	9.33	9798	0.068	0.131	0.153	0.256	153.134656	-31.901445	1102.19	-1419.52

2.4 Star Slots

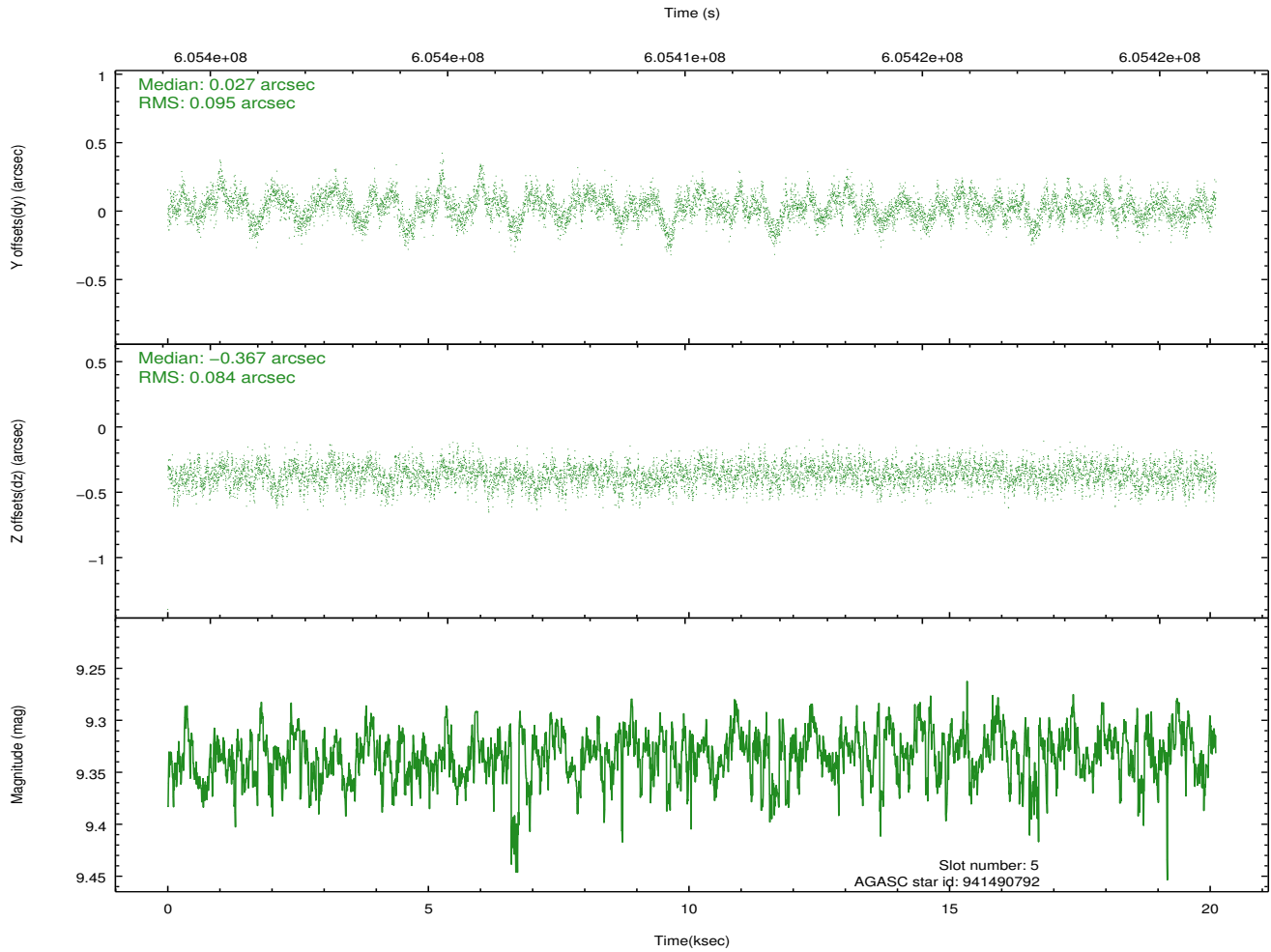
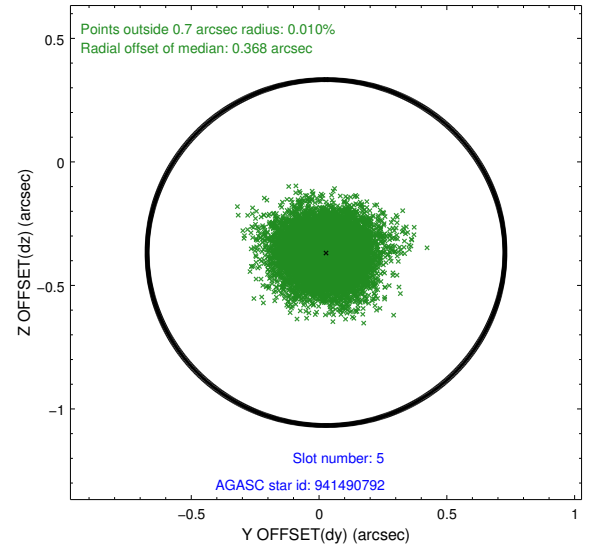
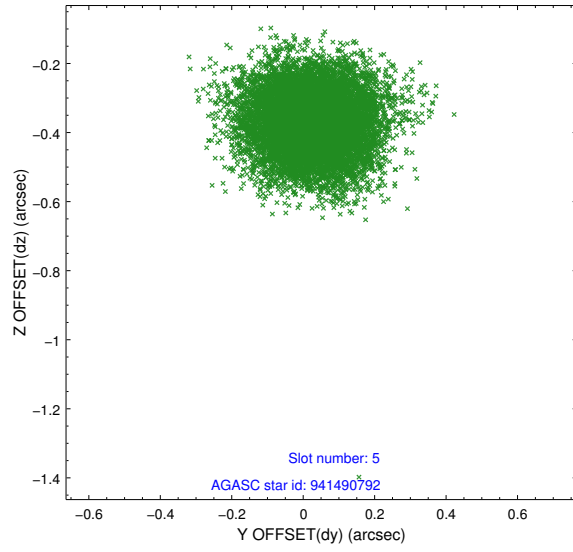
2.4.1 Slot 3



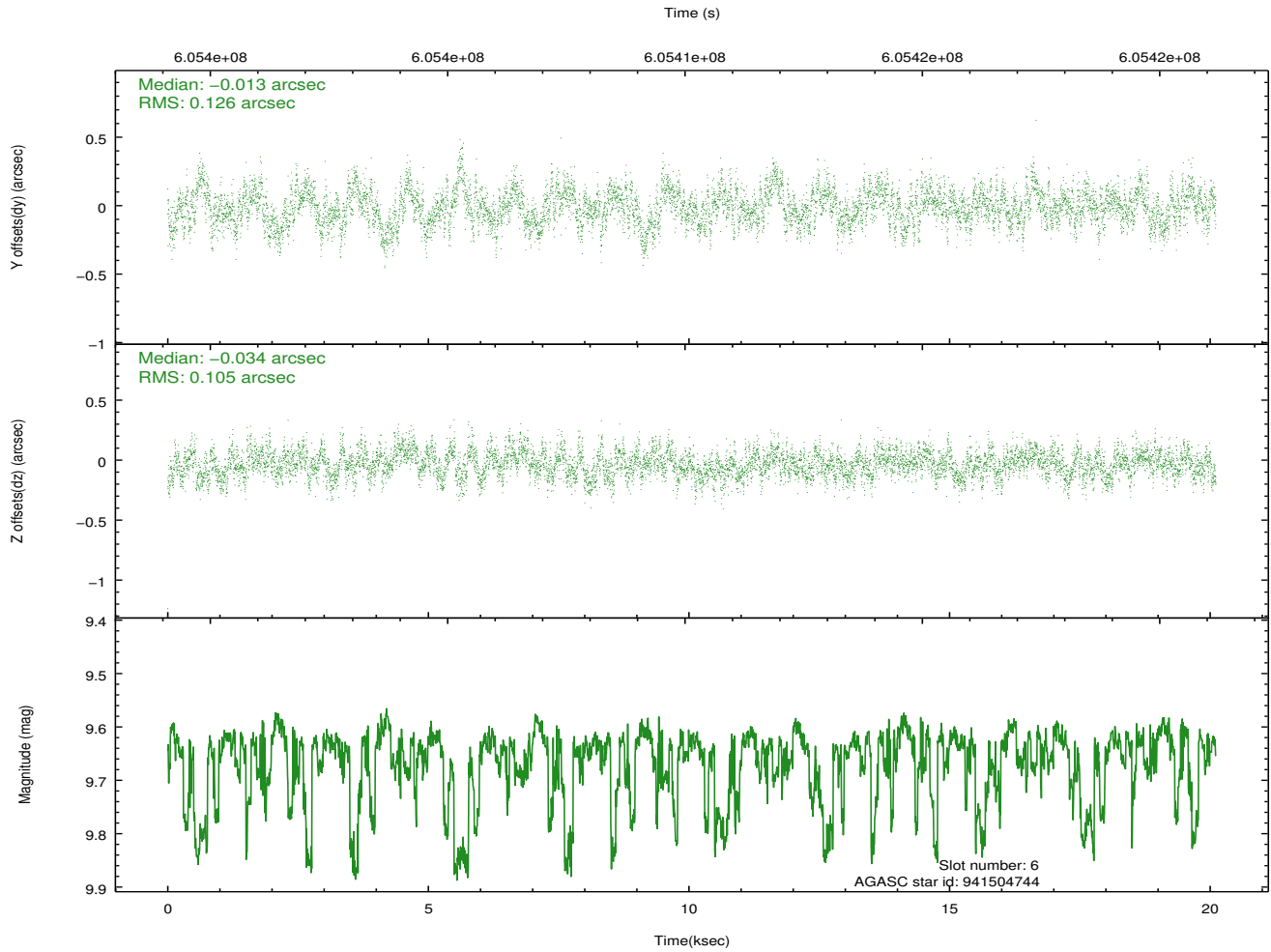
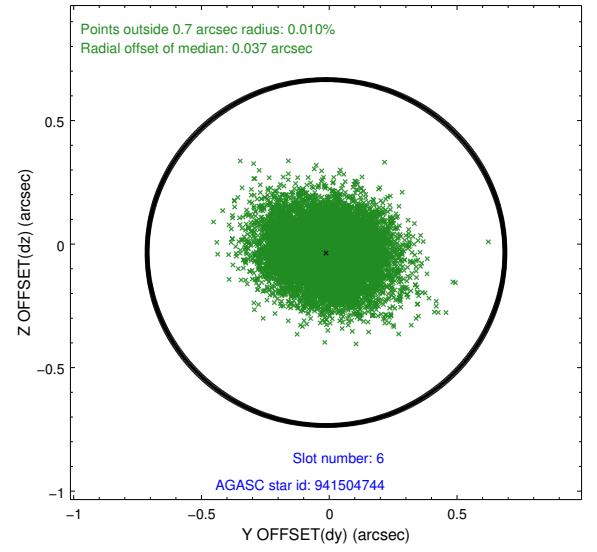
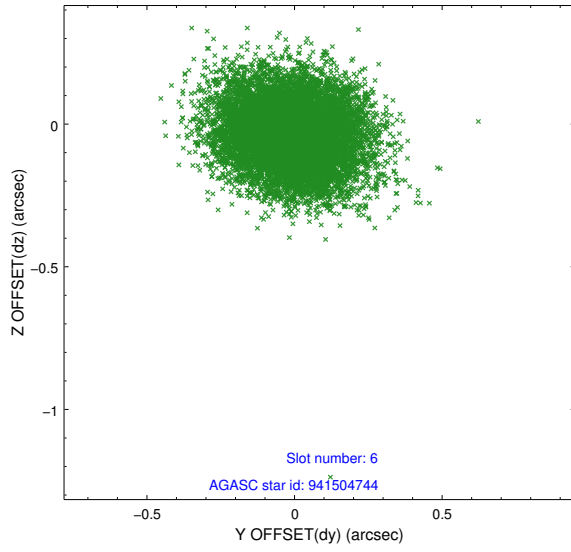
2.4.2 Slot 4



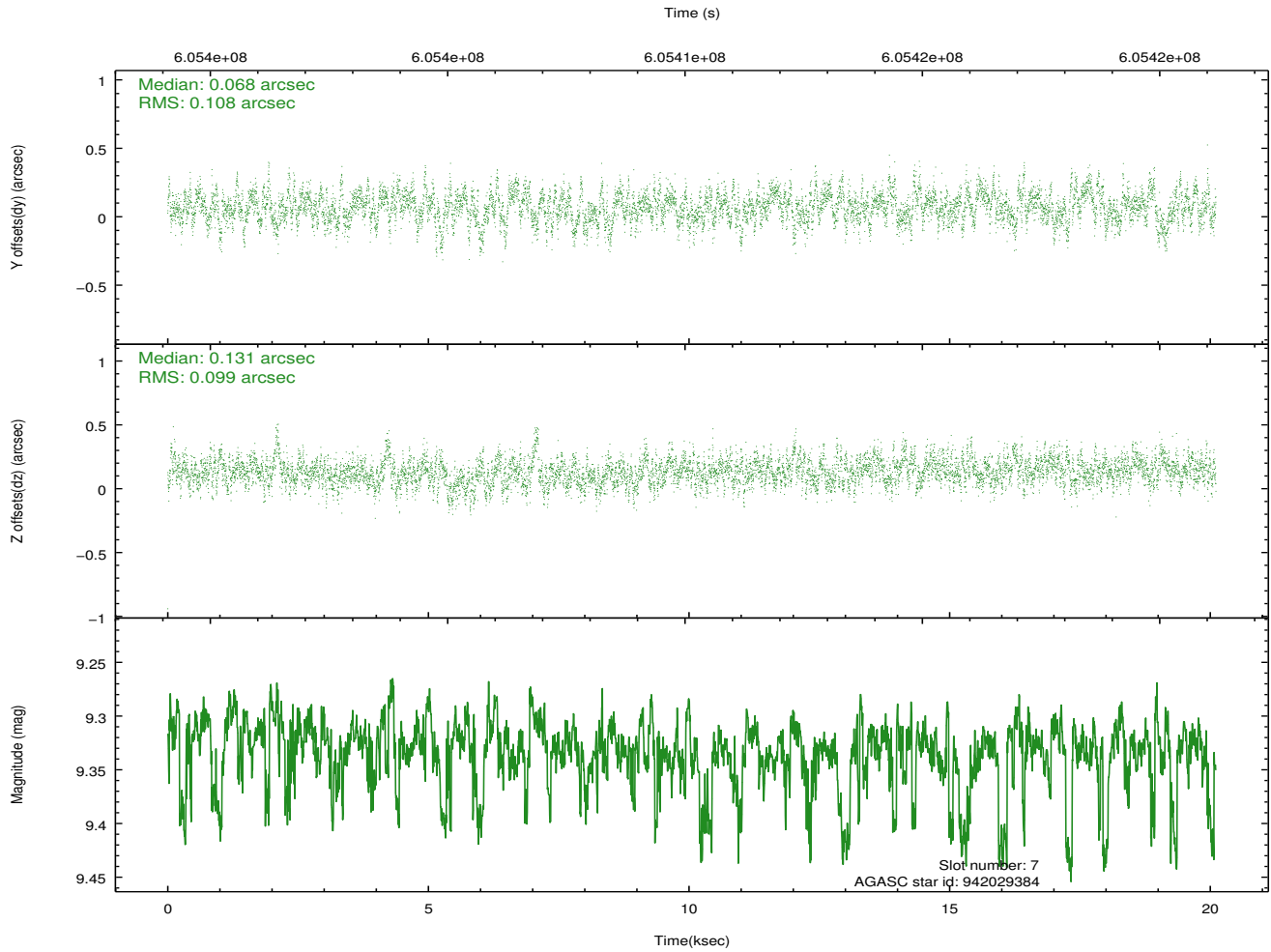
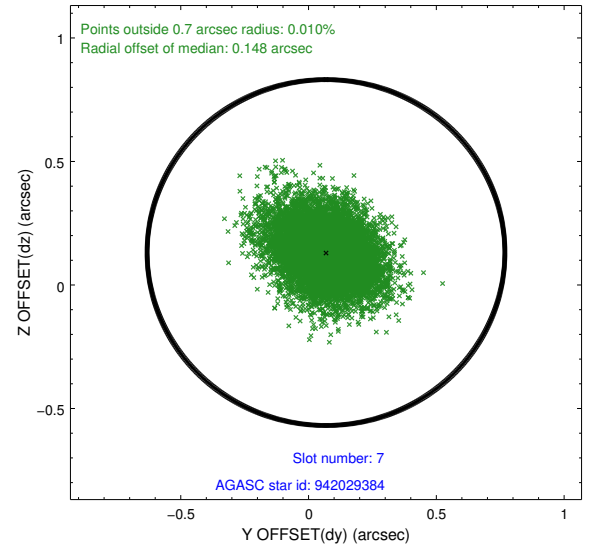
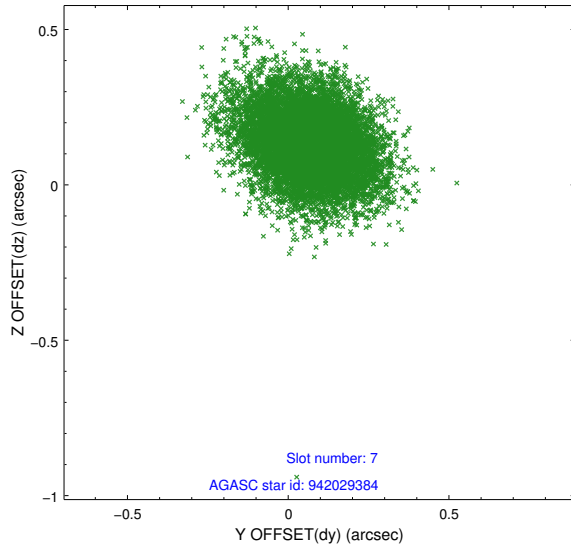
2.4.3 Slot 5



2.4.4 Slot 6

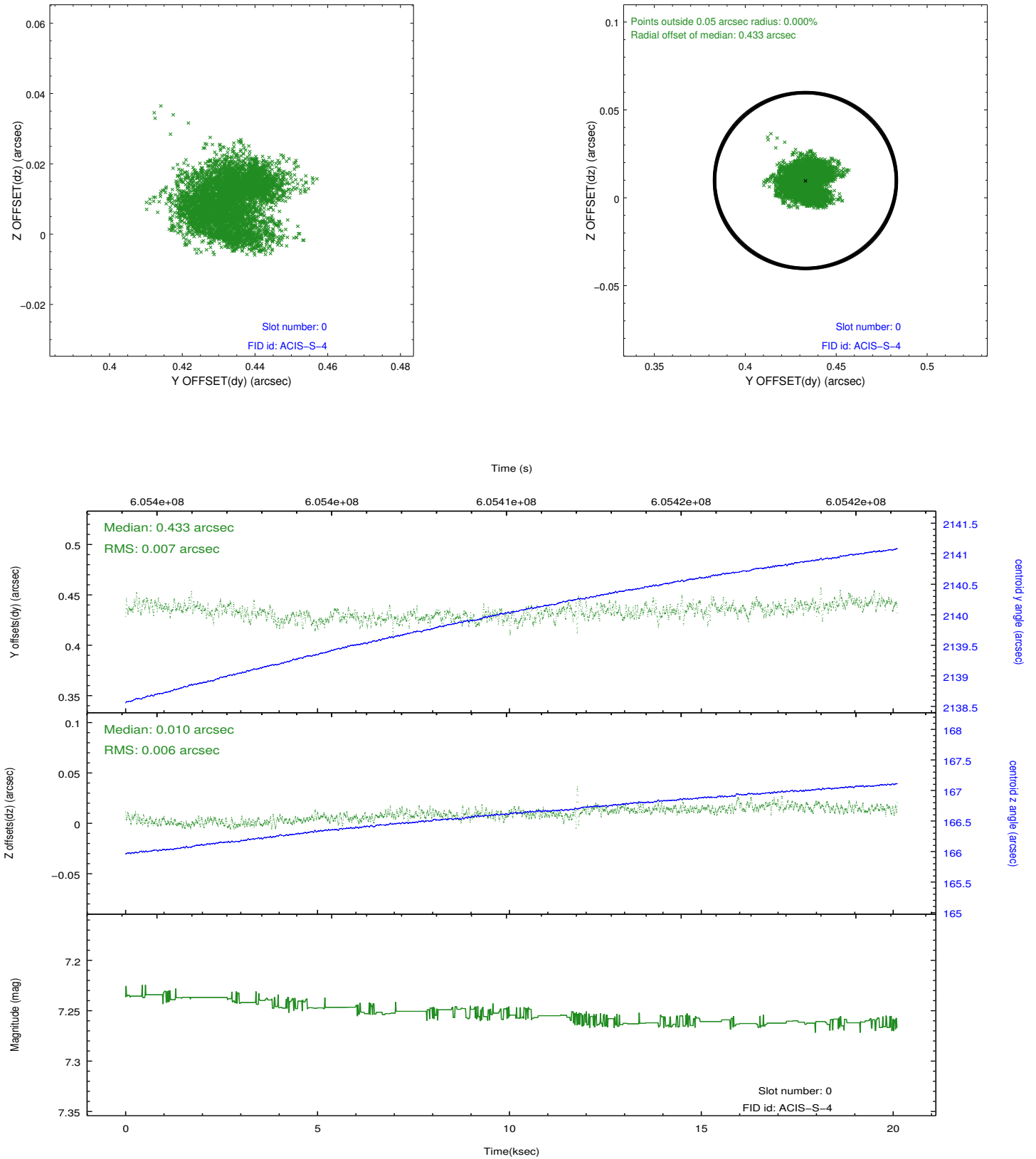


2.4.5 Slot 7

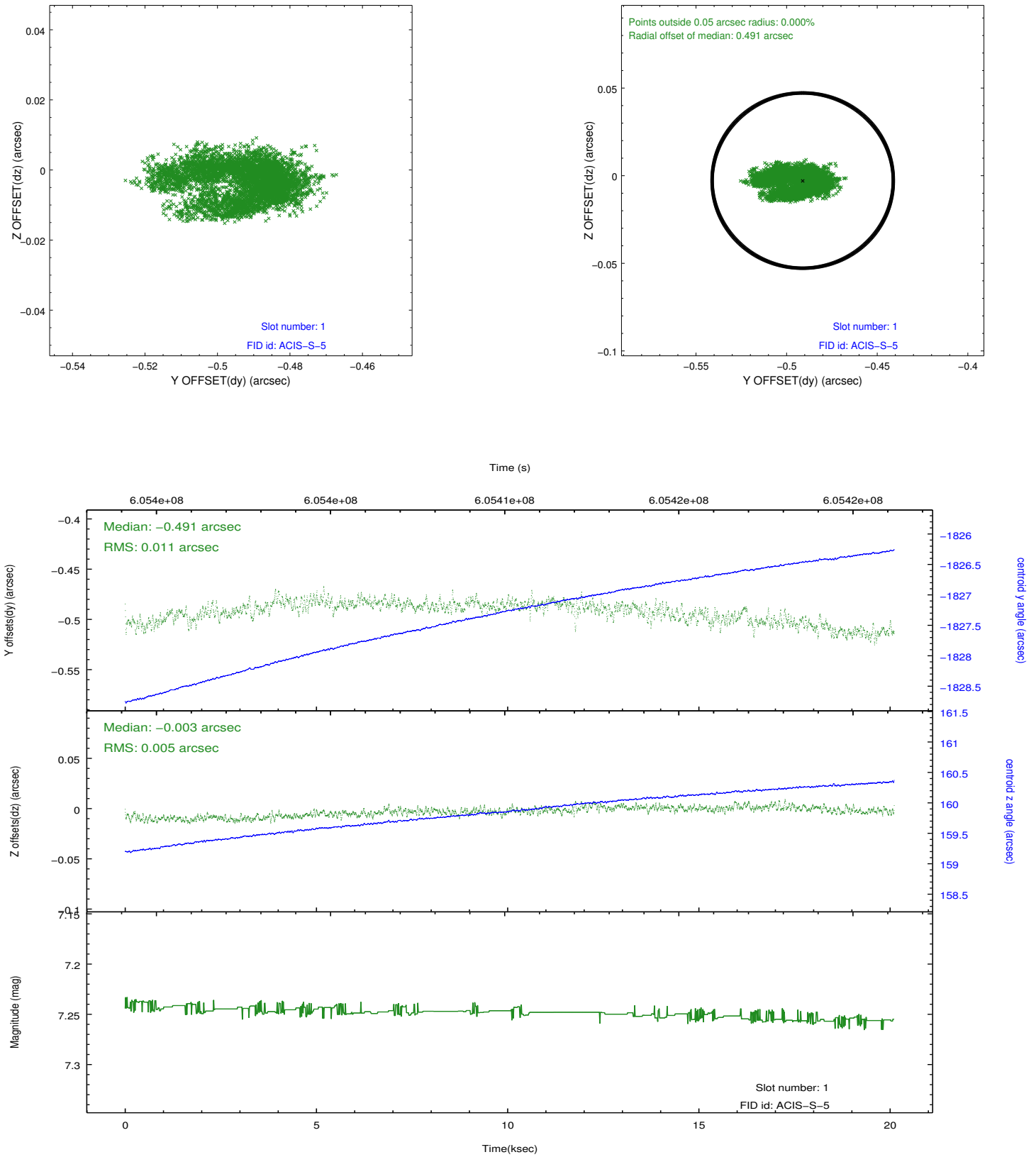


2.5 FID Slots

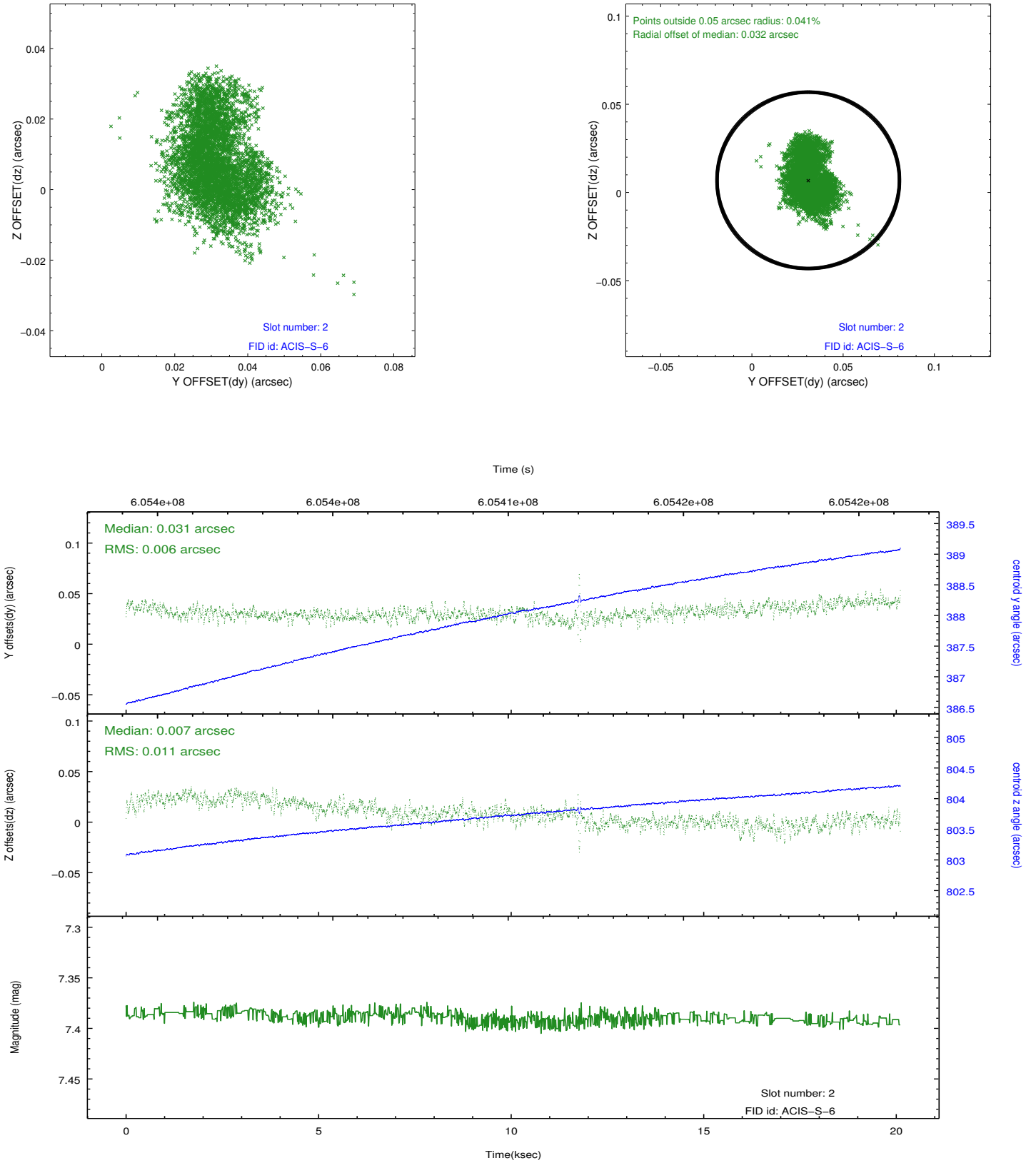
2.5.1 Slot 0



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)	2017.03.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.0601001544

A.2 Comments

Two optional chips were dropped.