

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 18898 - L2 Version 1
Chandra X-Ray Center

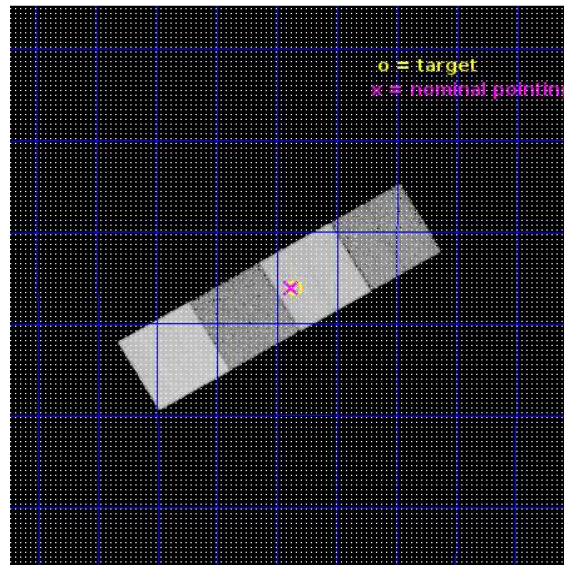
L2 Processing Date : Apr 10 2017

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

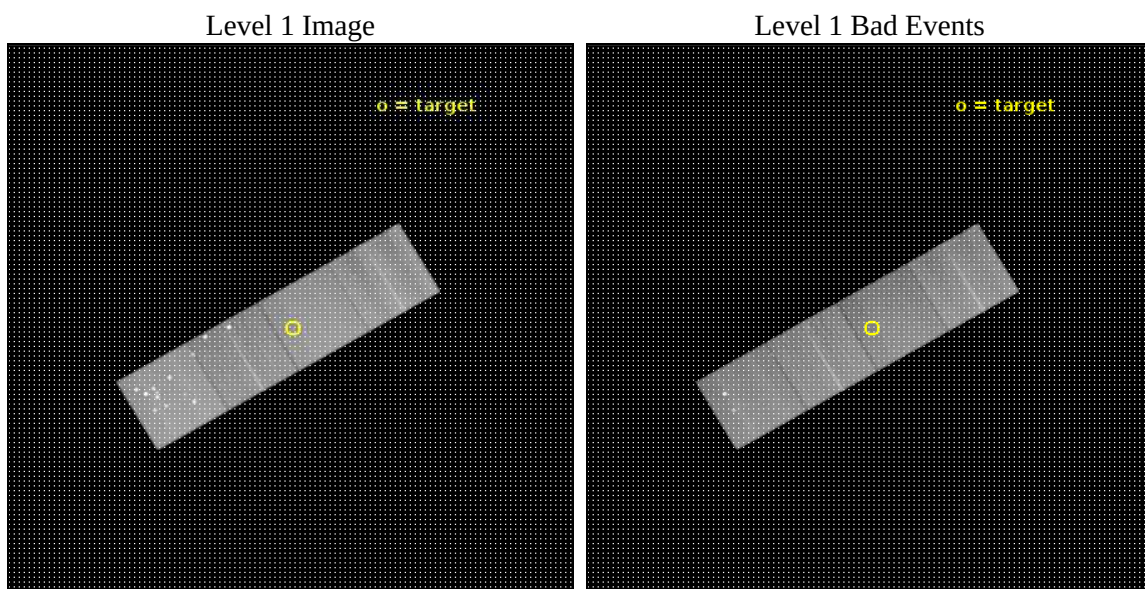
seq_num	201091	Sequence number
obs_id	18898	Observation id
title	X-rays from Young Low-Mass Stars: Inhospitable Habitable Zones?	Pr
observer	Joel Kastner	Principal investigator
object	TWA 32	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	186.7125	Observer's specified target RA [deg]
dec_targ	-33.27	Observer's specified target Dec [deg]
ra_nom	186.71940612076	Nominal RA [deg]
dec_nom	-33.268236038277	Nominal Dec [deg]
roll_nom	329.66040868213	Nominal Roll [deg]
revision	1	Processing version of data
ontime	35857.700275898	Sum of GTIs [s]
livetime	35389.193023738	Livetime [s]
ontime5	35857.700275898	Sum of GTIs [s]
ontime6	35854.559185743	Sum of GTIs [s]
ontime7	35857.700275898	Sum of GTIs [s]
ontime8	35854.55920577	Sum of GTIs [s]
l2events	367535	Number of level 2 events



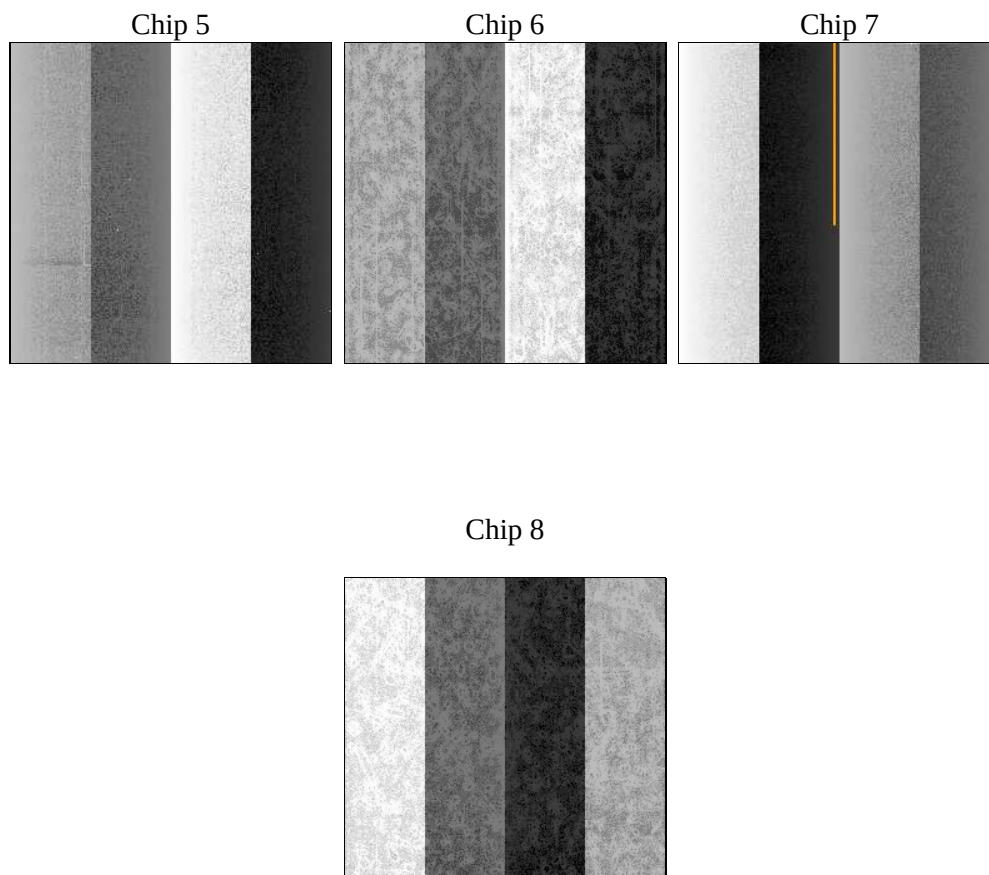
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	35794.978000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	35857.700275898	Sum of GTIs [s]
caldsver	4.7.3	 	ontime5	35857.700275898	Sum of GTIs [s]
date	2017-04-10T14:07:51	Date and time of file creation	ontime6	35854.559185743	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	35857.700275898	Sum of GTIs [s]
			ontime8	35854.55920577	Sum of GTIs [s]
			l1events	1431421	Number of level 1 events

2.1.4 Events

	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	482011	298242	323960	327208
rejected events	223013	236138	185684	242659
rejected %	46%	79%	57%	74%

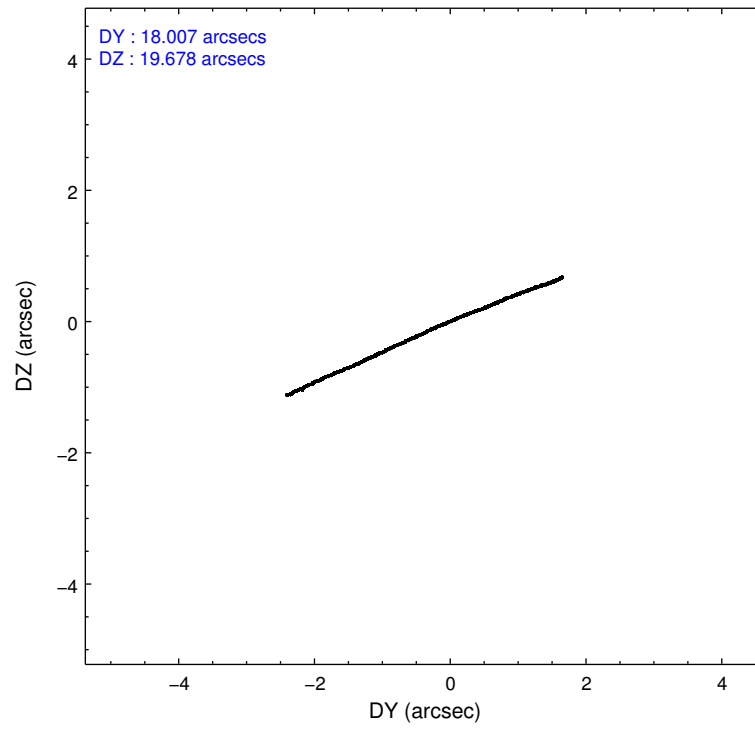
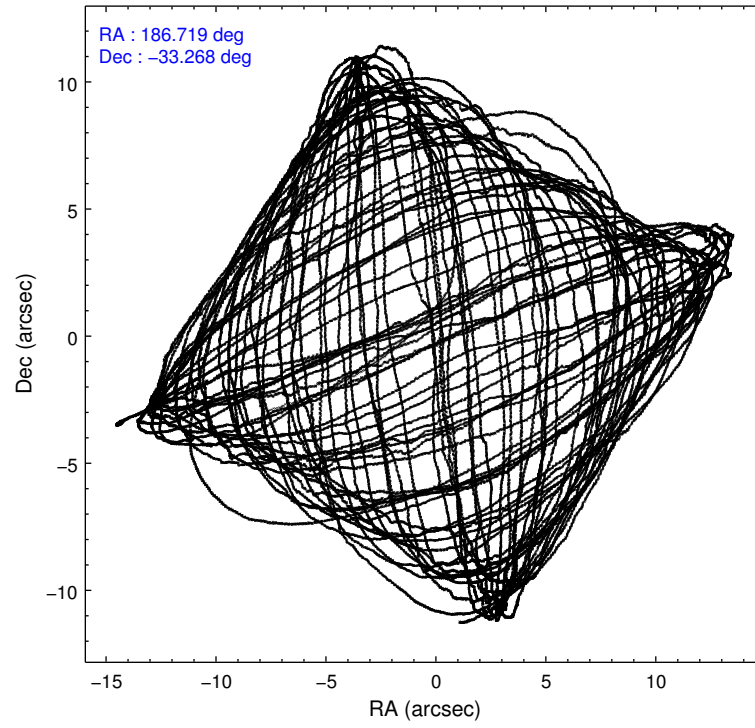
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	65218	42264	10958	23401
	13%	14%	3%	7%
grade 1 events	1054	254	401	259
	0%	0%	0%	0%
grade 2 events	71032	7213	29579	20738
	14%	2%	9%	6%
grade 3 events	8261	2692	10252	8947
	1%	0%	3%	2%
grade 4 events	6771	2662	10010	8332
	1%	0%	3%	2%
grade 5 events	28178	11215	30389	17313
	5%	3%	9%	5%
grade 6 events	107745	7280	77487	23135
	22%	2%	23%	7%
grade 7 events	193752	224662	154884	225083
	40%	75%	47%	68%

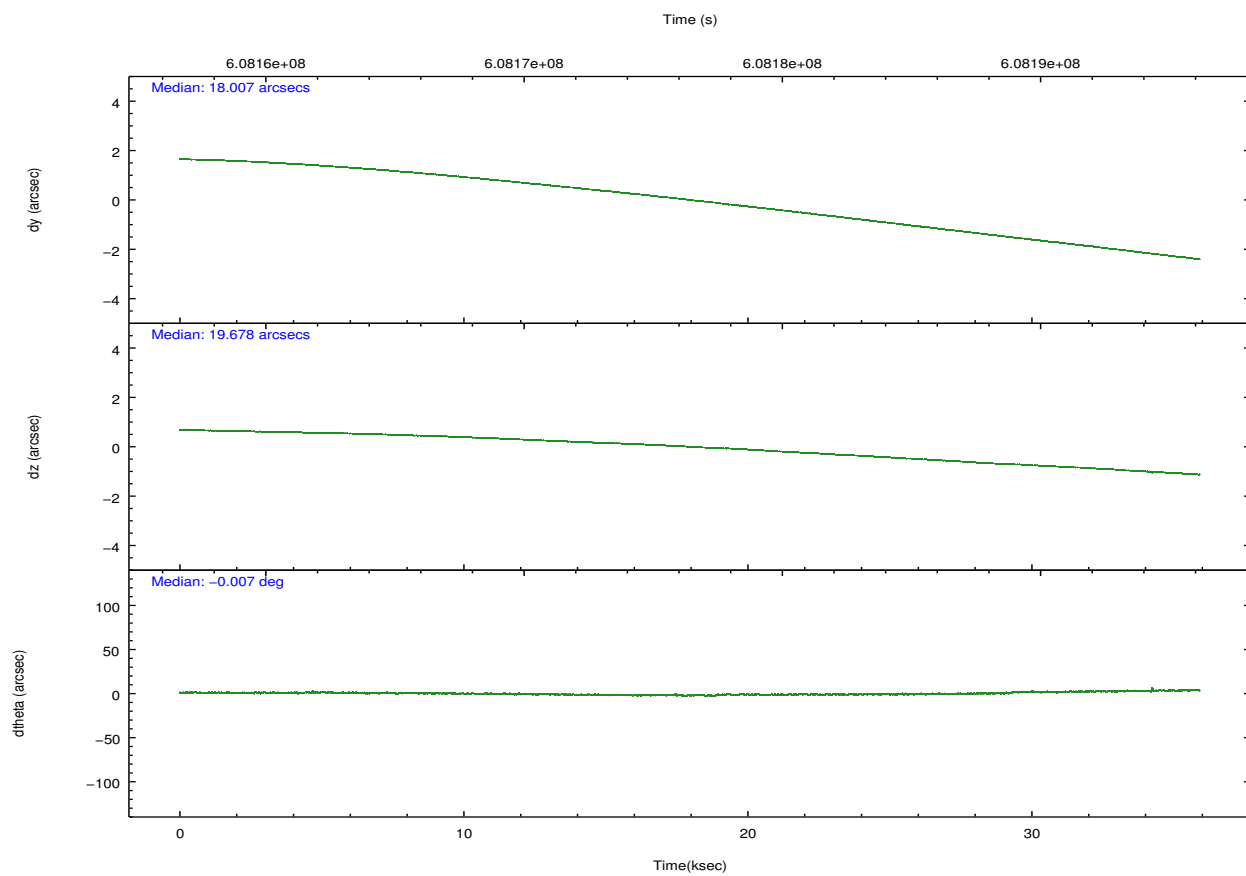
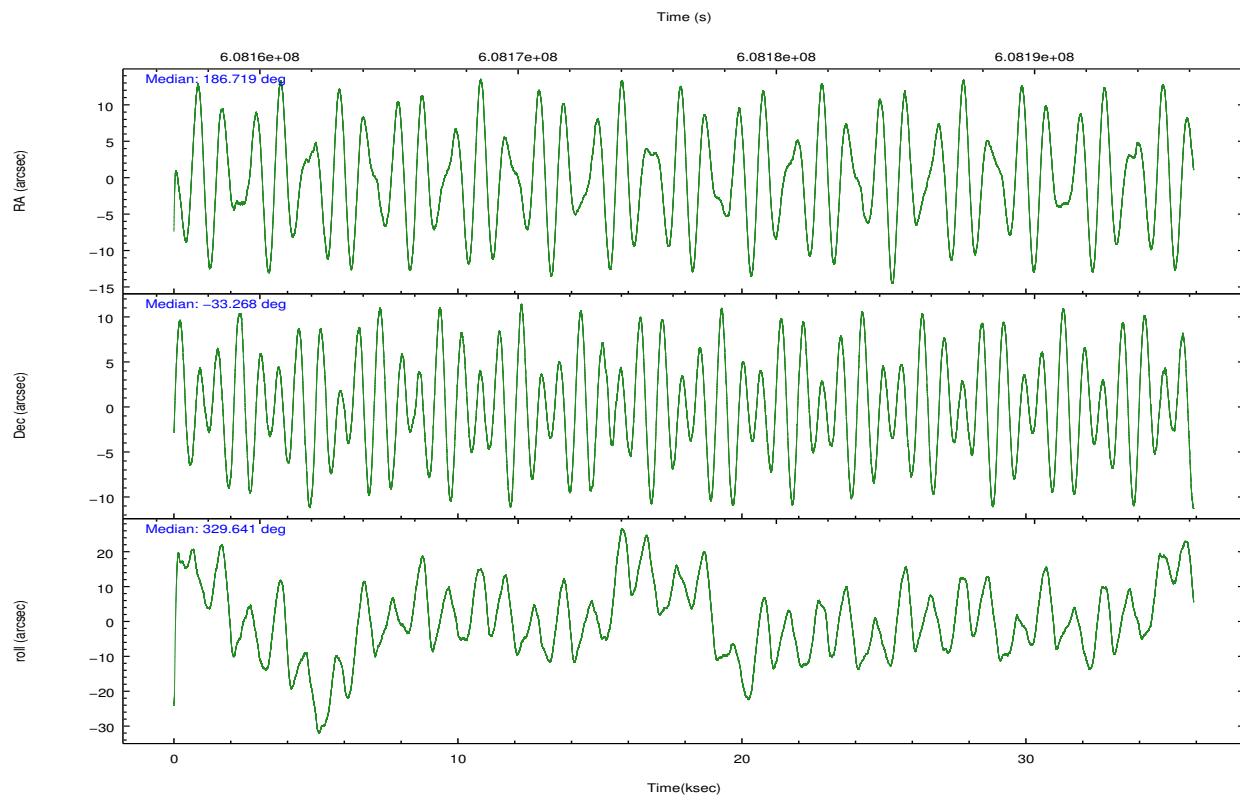
2.2 Compared Parameters

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	186.686576	186.7194061207585
[deg] Pointing Dec	-33.268450	-33.26823603827725
[deg] Pointing Roll	329.485784	329.6604086821264
[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)	608158589.184000	608156880.44598
Observation start date	2017-04-09T20:55:20	2017-04-09T20:28:00
[s] Observation end time (MET)	608194384.184000	608194604.0356801
Observation end date	2017-04-10T06:51:55	2017-04-10T06:56:44
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



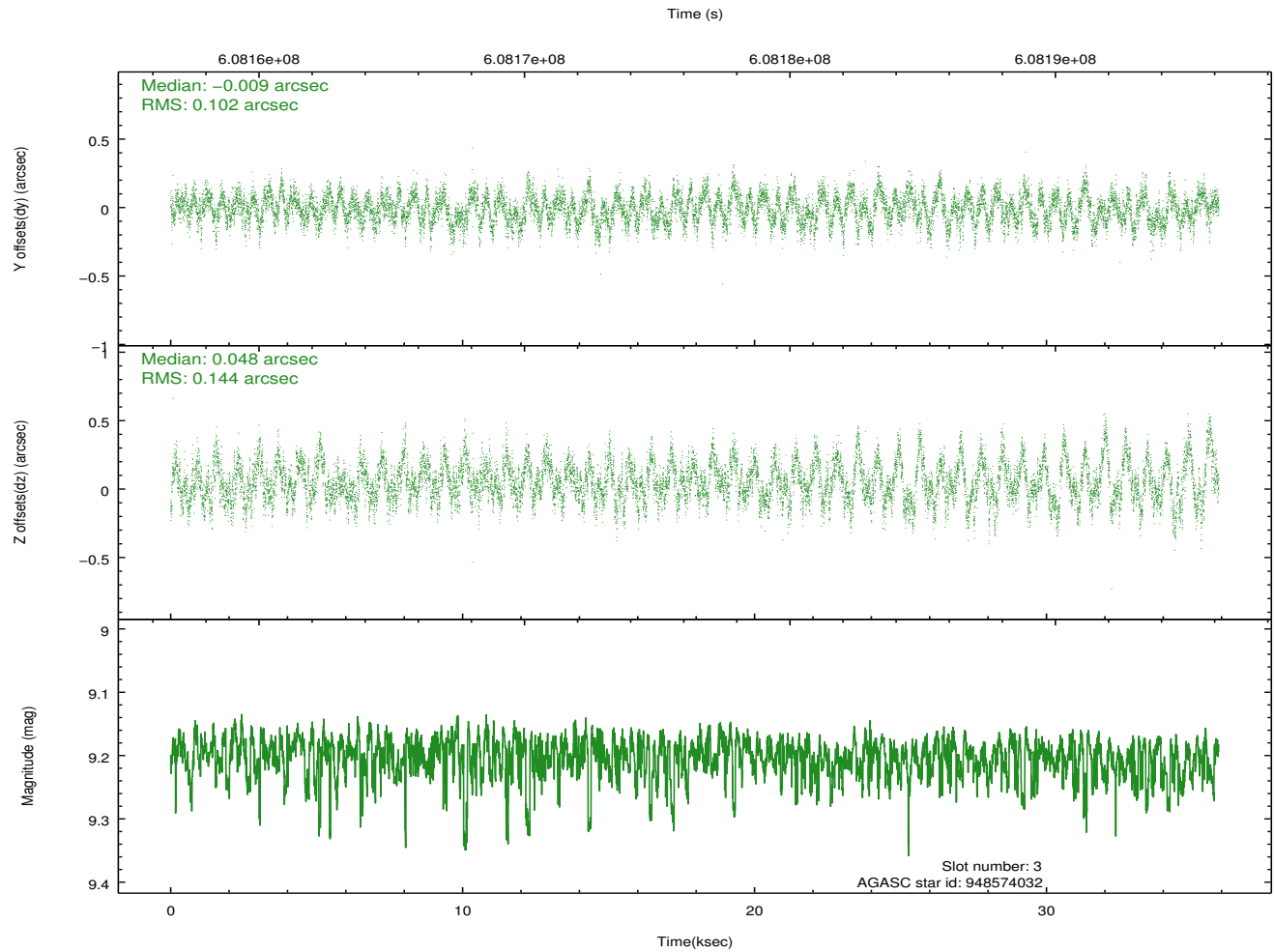
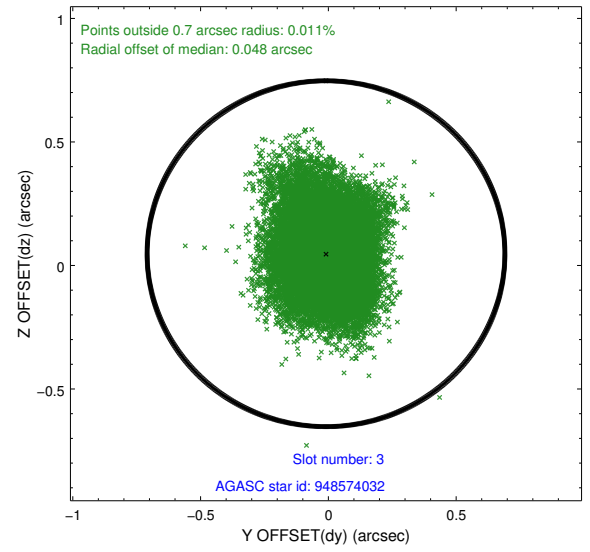
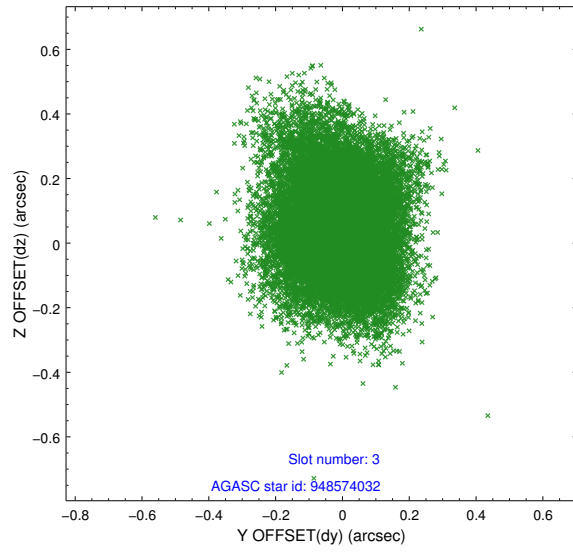


Slot Statistics

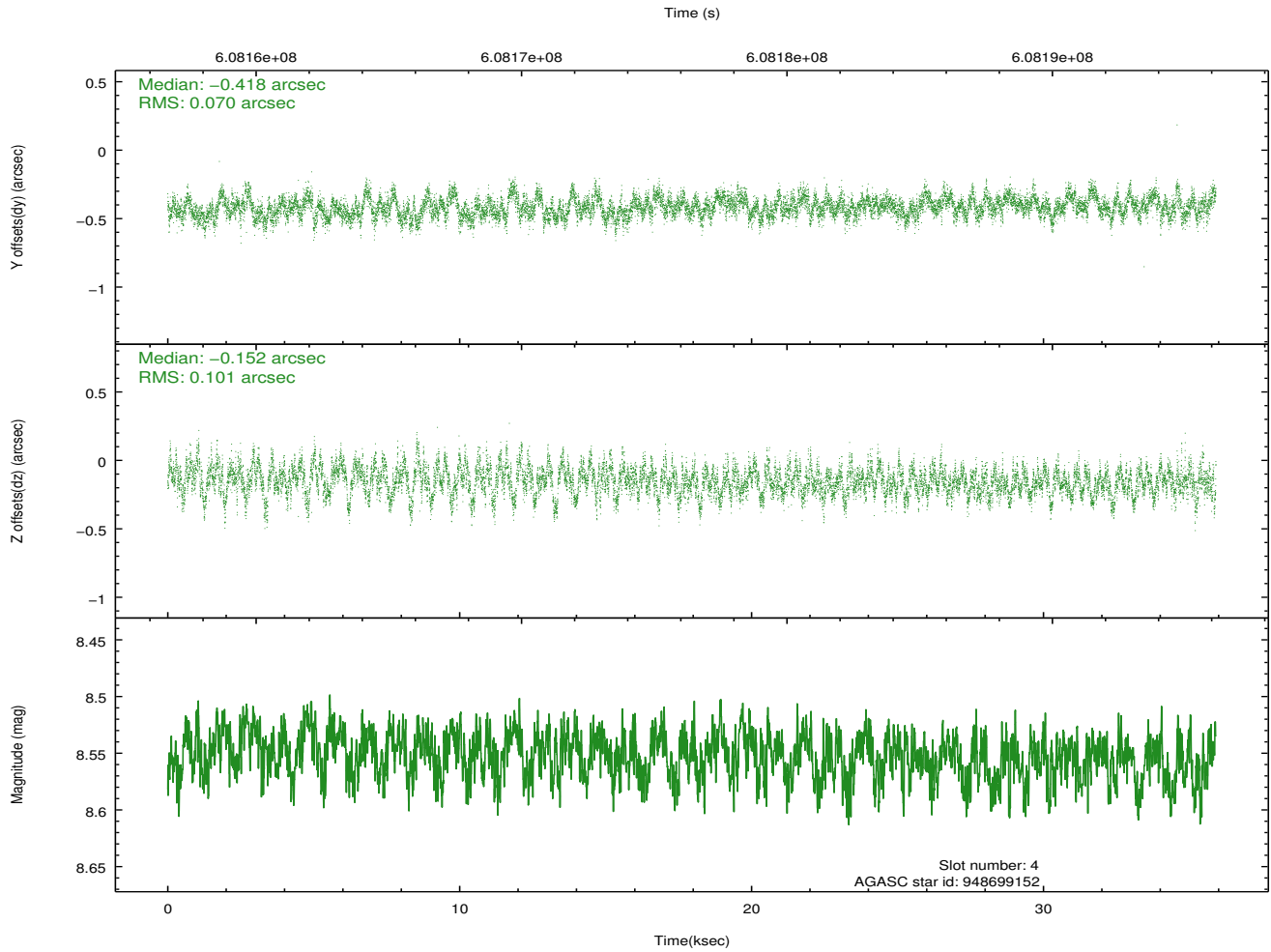
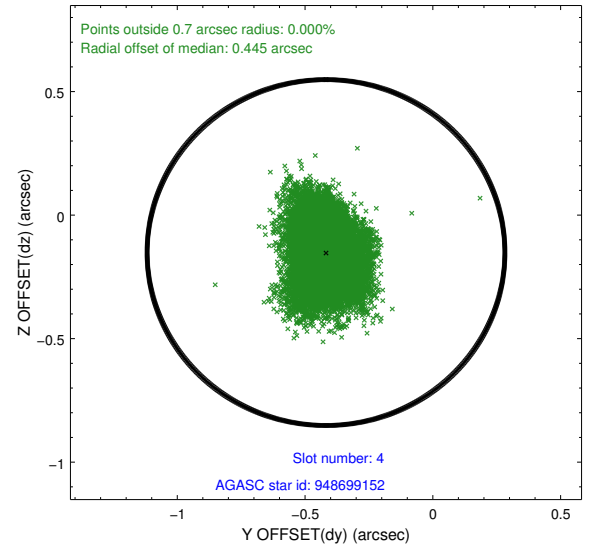
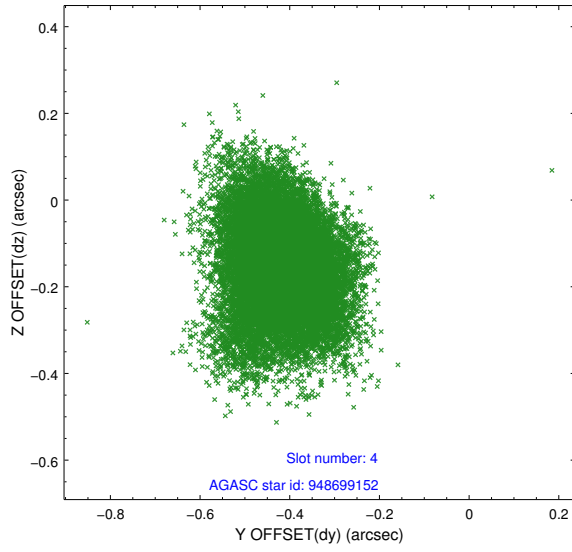
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.22	8756	0.042	-0.092	0.033	0.050	0.000000	0.000000	925.19	-1736.74
1	FID		ACIS-S-4	7.23	8758	0.419	0.043	0.031	0.040	0.000000	0.000000	2142.93	167.56
2	FID		ACIS-S-5	7.23	8758	-0.489	0.053	0.017	0.027	0.000000	0.000000	-1824.23	161.05
3	GUIDE	used	948574032	9.20	17492	-0.009	0.048	0.187	0.306	186.724894	-32.980039	-427.35	952.82
4	GUIDE	used	948699152	8.55	17512	-0.418	-0.152	0.128	0.218	187.040667	-33.241528	870.01	623.15
5	GUIDE	used	948699856	7.92	17508	0.258	0.128	0.125	0.206	186.843743	-32.777129	-487.89	1764.73
6	GUIDE	used	948706240	7.12	17512	-0.133	-0.437	0.104	0.175	187.526517	-33.328387	2291.47	1088.15
7	GUIDE	used	949094576	9.75	17498	0.290	0.417	0.303	0.488	186.691561	-34.016590	1382.07	-2312.16

2.4 Star Slots

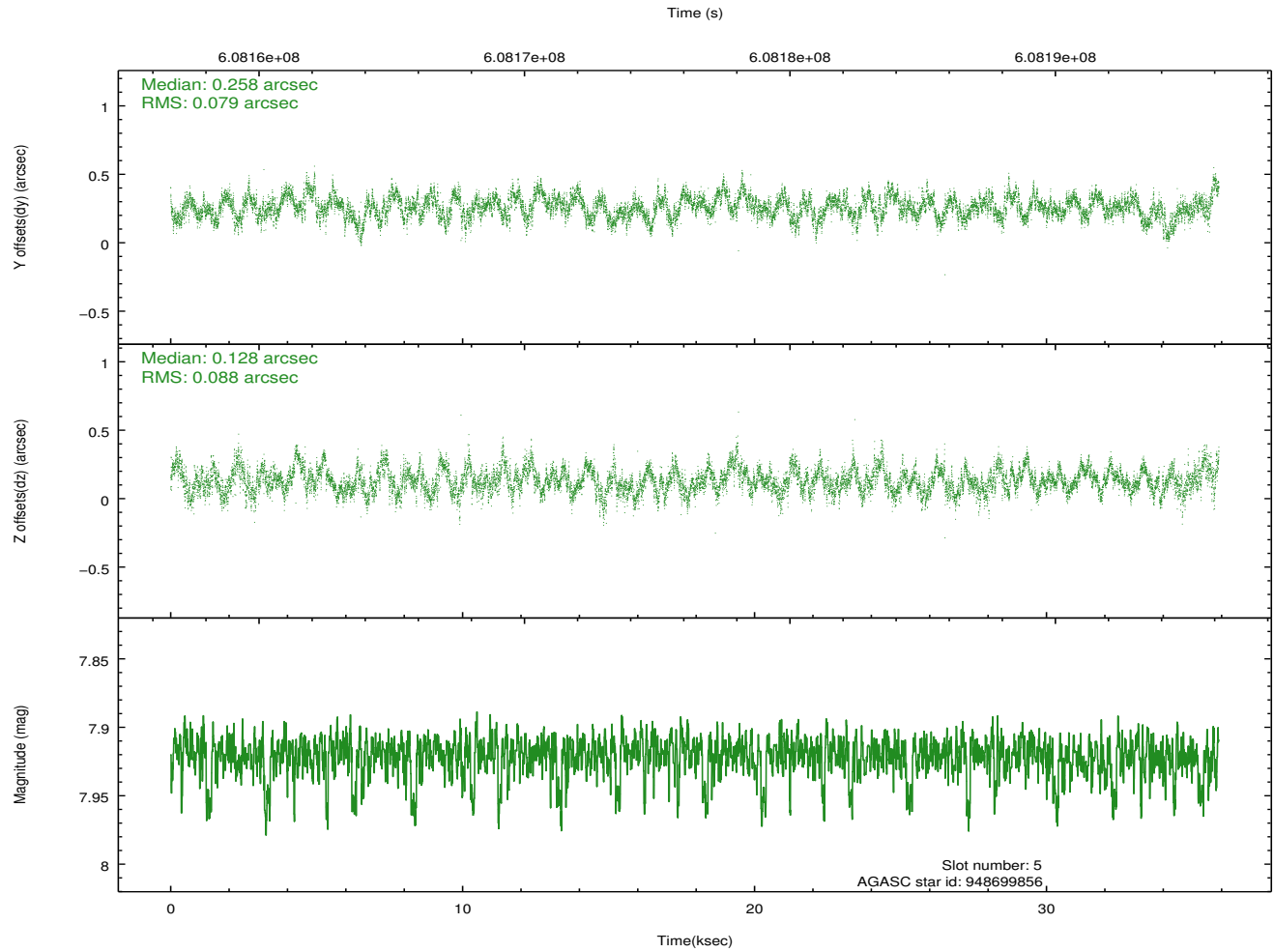
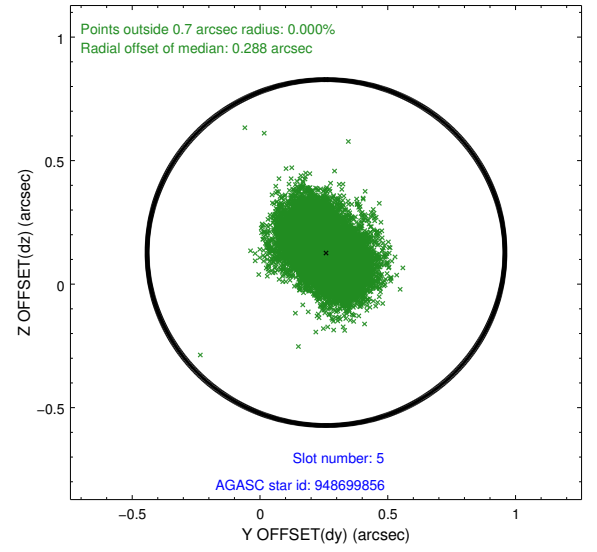
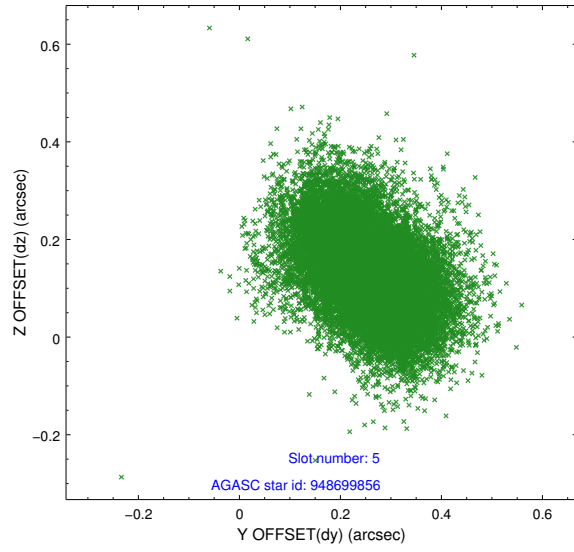
2.4.1 Slot 3



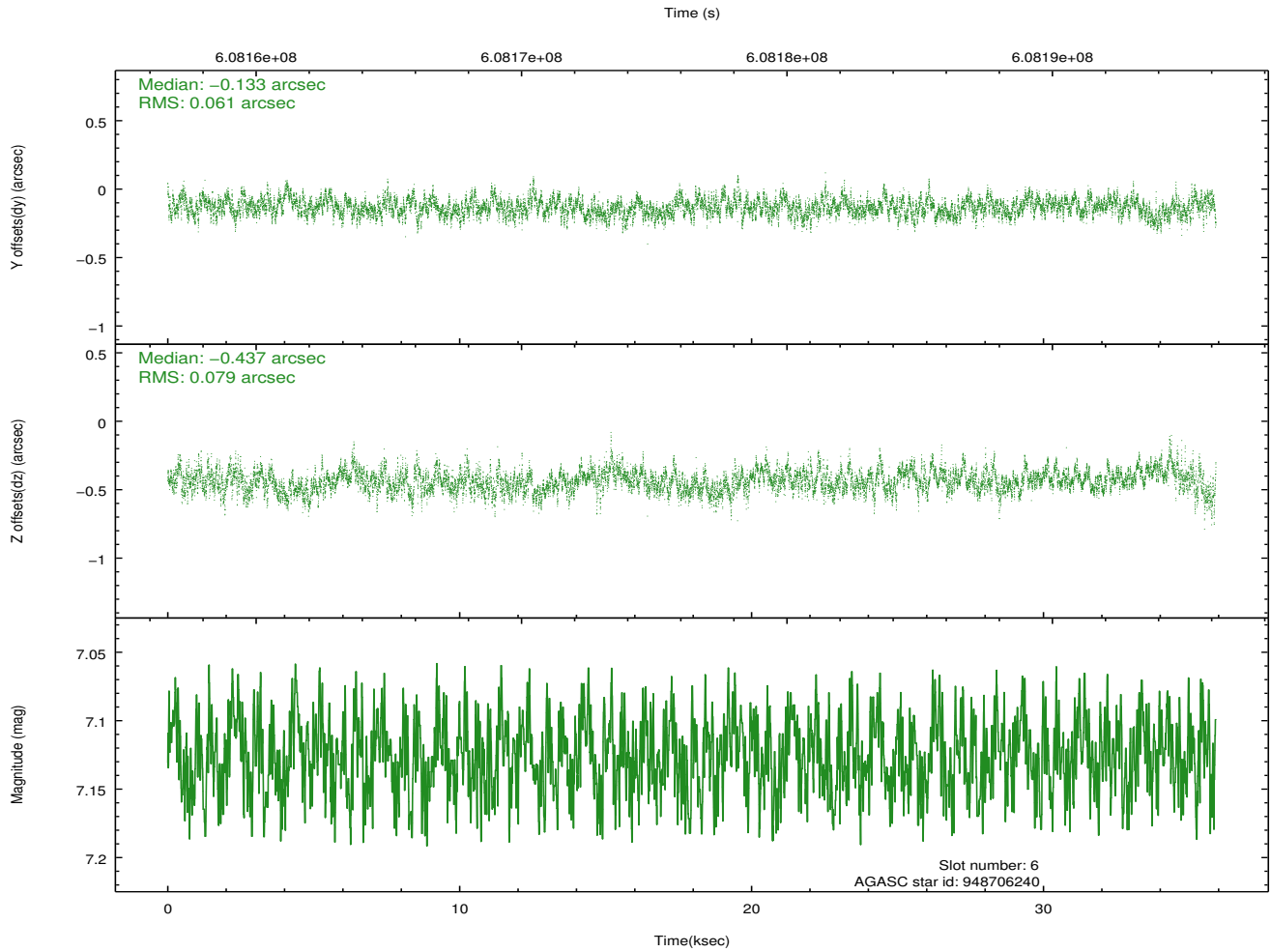
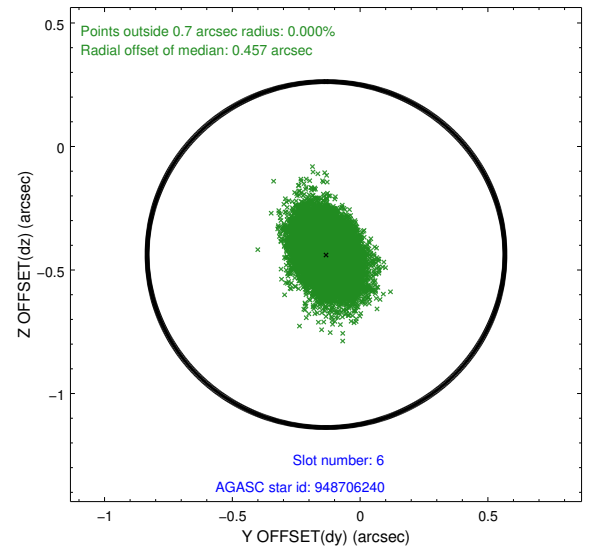
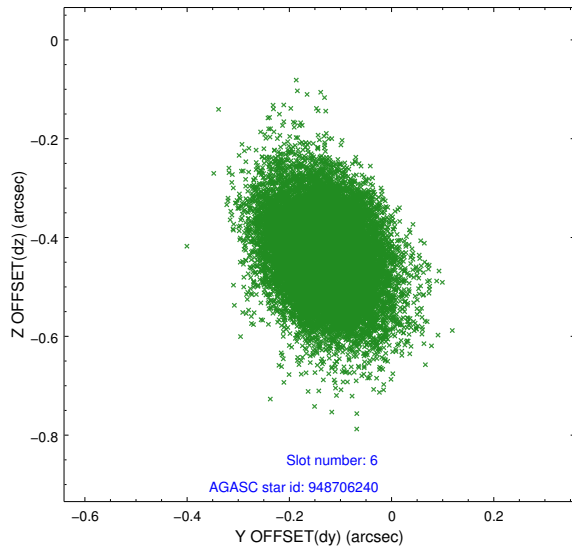
2.4.2 Slot 4



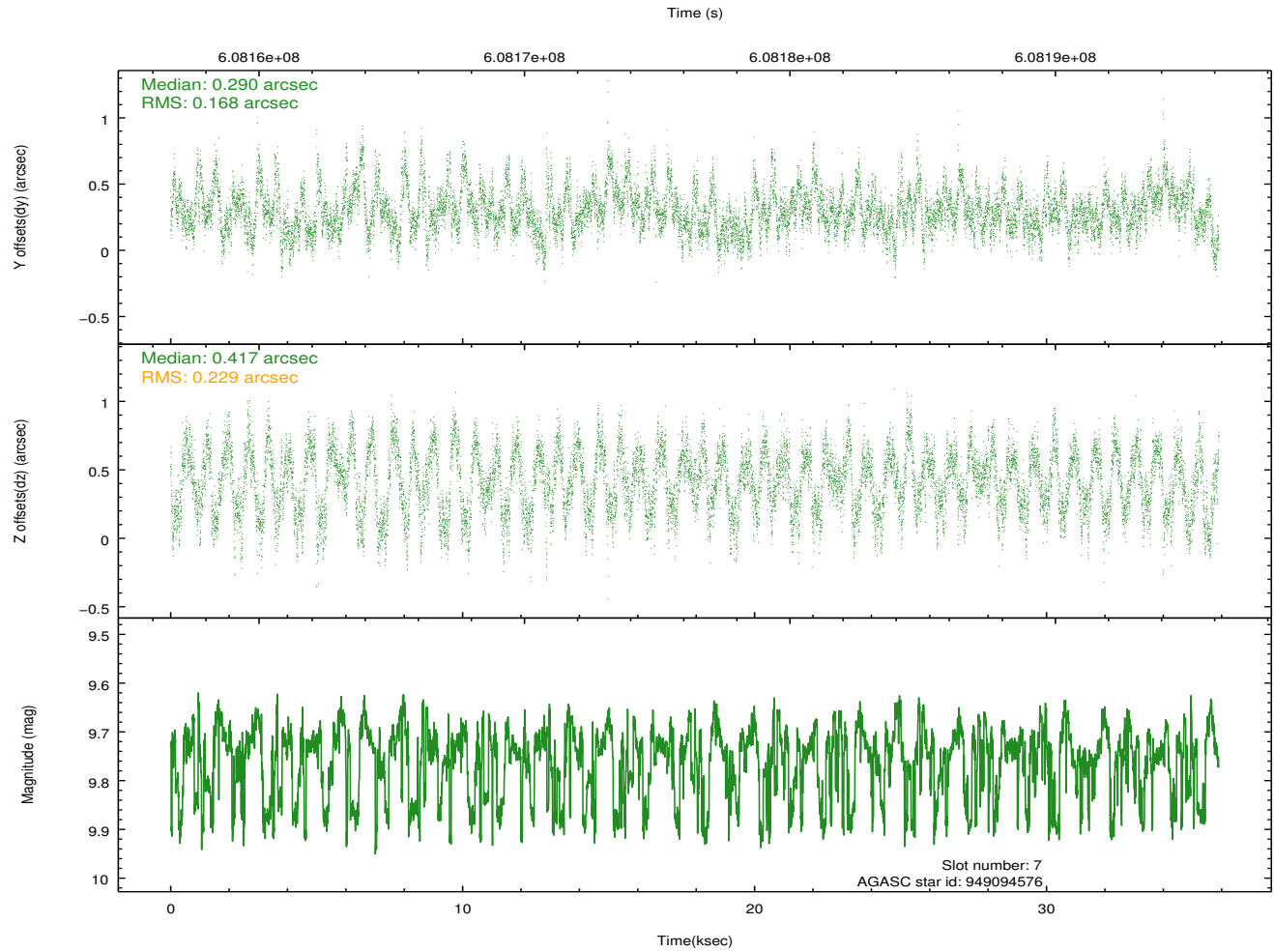
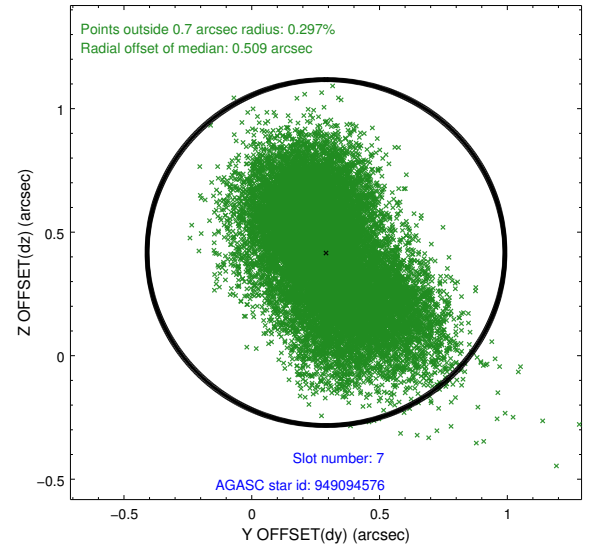
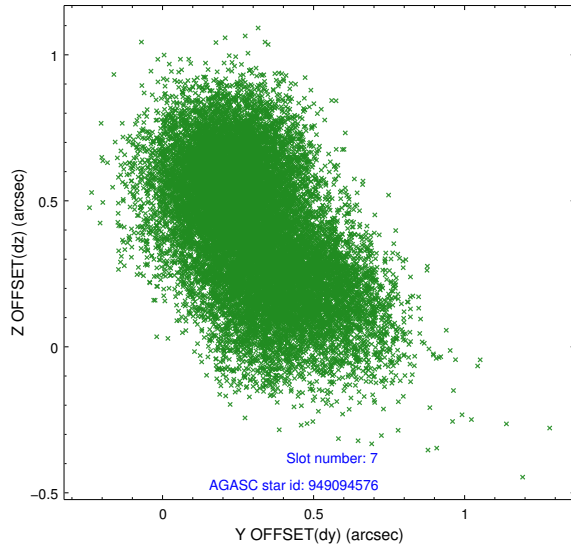
2.4.3 Slot 5



2.4.4 Slot 6

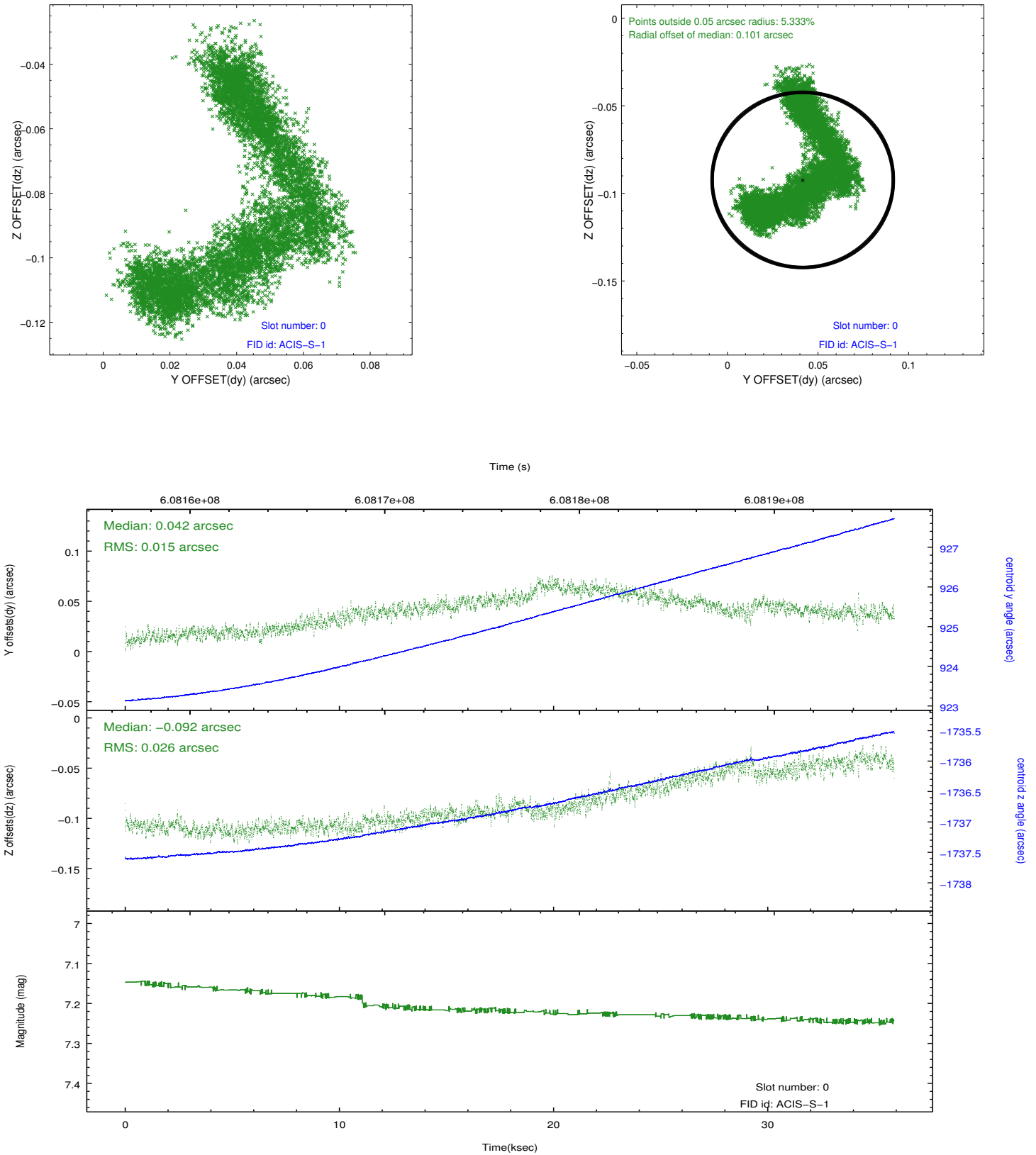


2.4.5 Slot 7

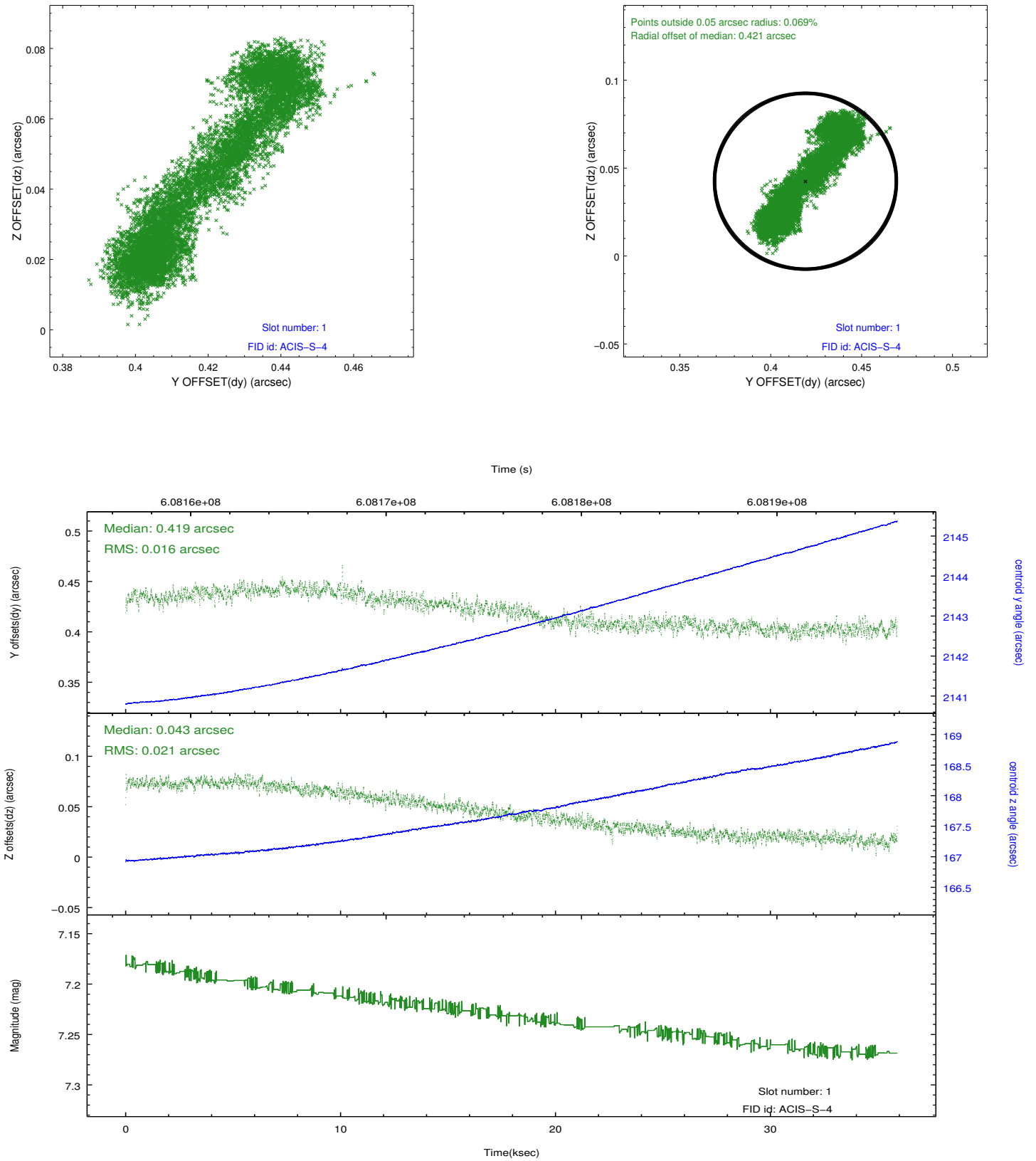


2.5 FID Slots

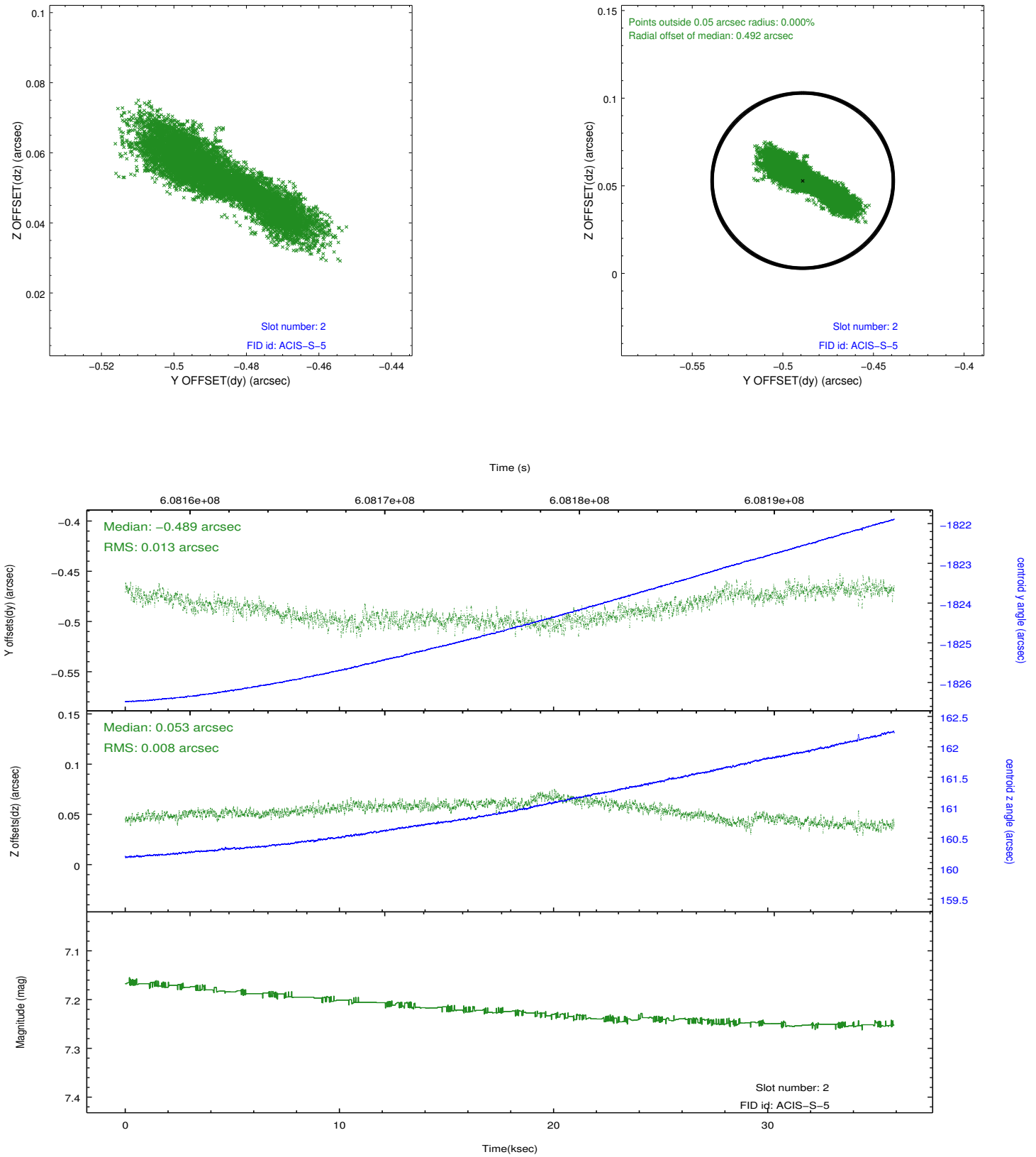
2.5.1 Slot 0



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)	2017.04.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	35.857700275898

A.2 Comments

Two optional chips were dropped.