

V&V Reference Report

L2 ASCDS Version : 10.5.1.1

Observation 18267 - L2 Version 1
Chandra X-Ray Center

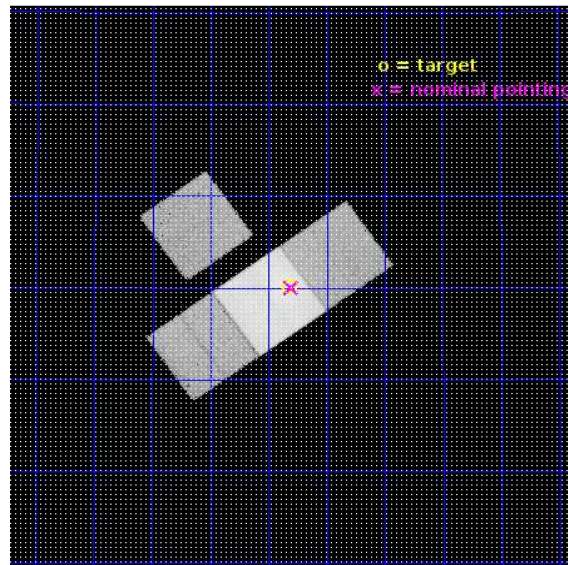
L2 Processing Date : Oct 25 2016

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1 Front

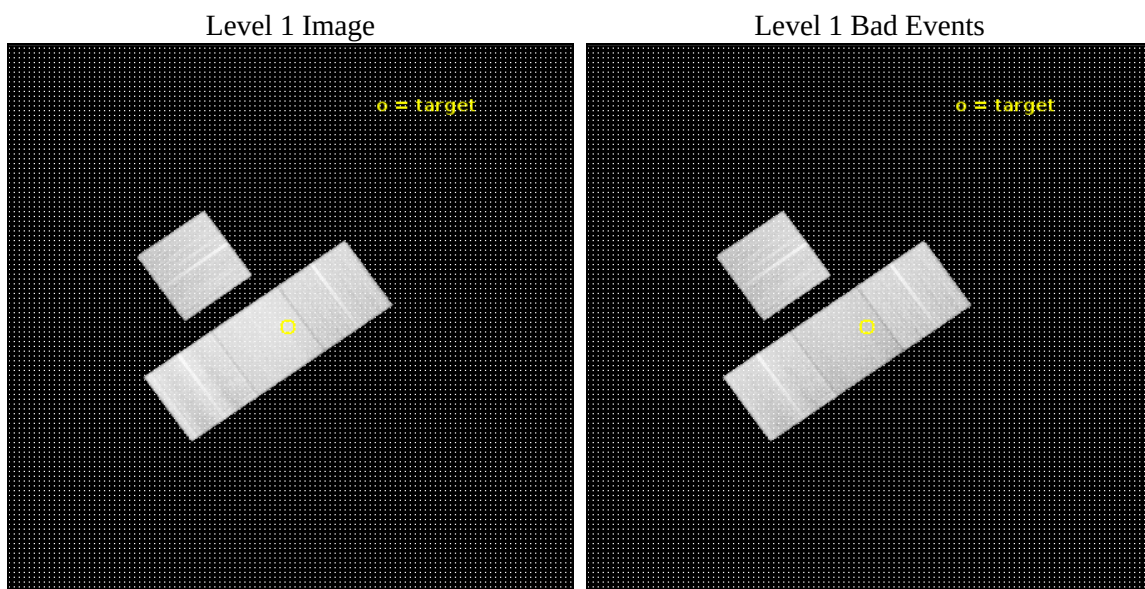
seq_num	801591	Sequence number
obs_id	18267	Observation id
title	The 'seven-sister' BCG - A tale of a cD galaxy in the making?	Pr
observer	Dharam Lal	Principal investigator
object	Abell 407	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	45.455833	Observer's specified target RA [deg]
dec_targ	35.835	Observer's specified target Dec [deg]
ra_nom	45.450999666549	Nominal RA [deg]
dec_nom	35.833701708162	Nominal Dec [deg]
roll_nom	144.69641898333	Nominal Roll [deg]
revision	1	Processing version of data
ontime	44060.300338984	Sum of GTIs [s]
livetime	43484.620078333	Livetime [s]
ontime3	44060.300338984	Sum of GTIs [s]
ontime6	44060.300338984	Sum of GTIs [s]
ontime7	44060.300338984	Sum of GTIs [s]
ontime8	44057.159268737	Sum of GTIs [s]
l2events	275588	Number of level 2 events



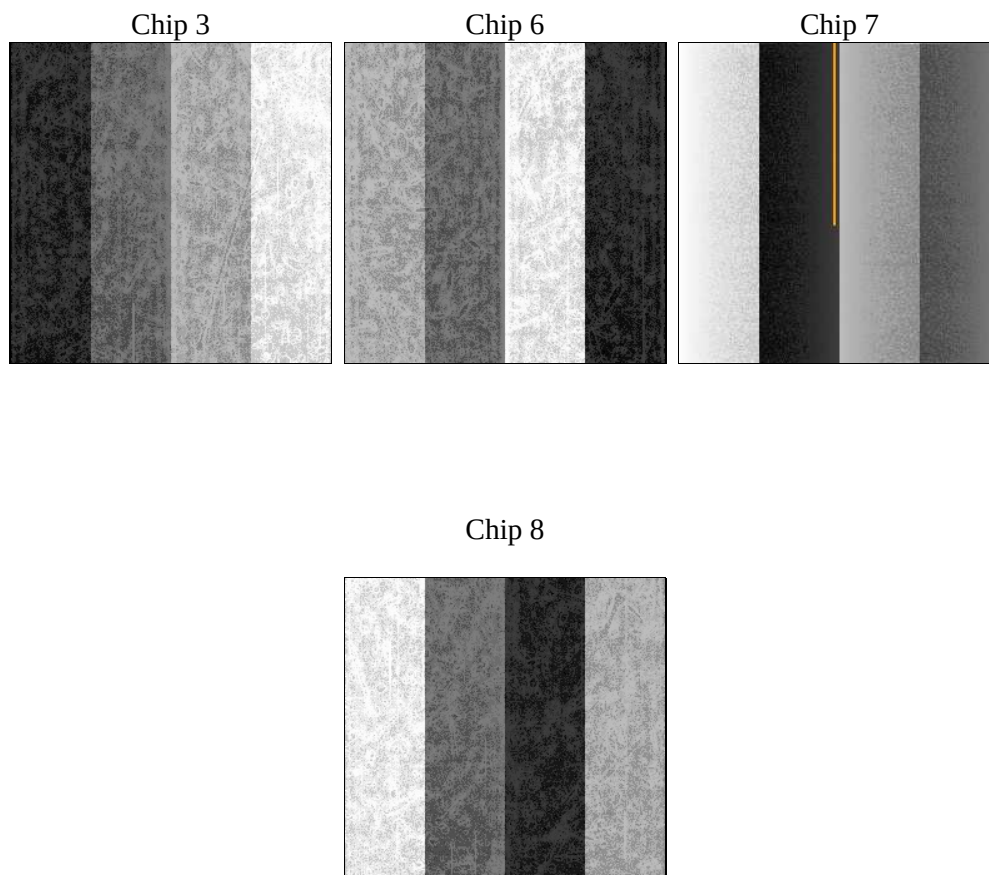
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	44000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.1.1	Processing system revision	ontime	44060.300338984	Sum of GTIs [s]
caldbver	4.7.2	 	ontime3	44060.300338984	Sum of GTIs [s]
date	2016-10-25T15:23:40	Date and time of file creation	ontime6	44060.300338984	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	44060.300338984	Sum of GTIs [s]
			ontime8	44057.159268737	Sum of GTIs [s]
			l1events	1420318	Number of level 1 events

2.1.4 Events

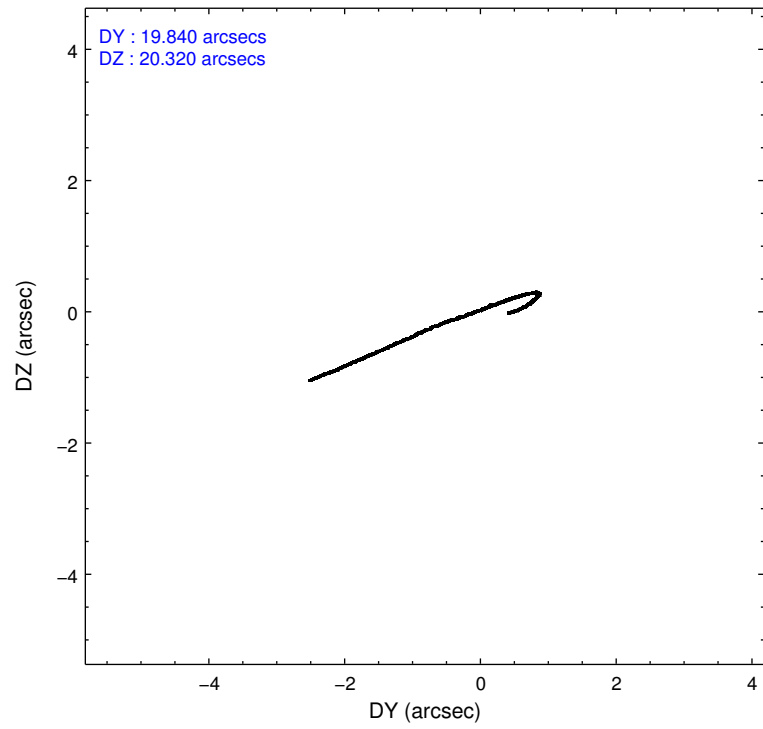
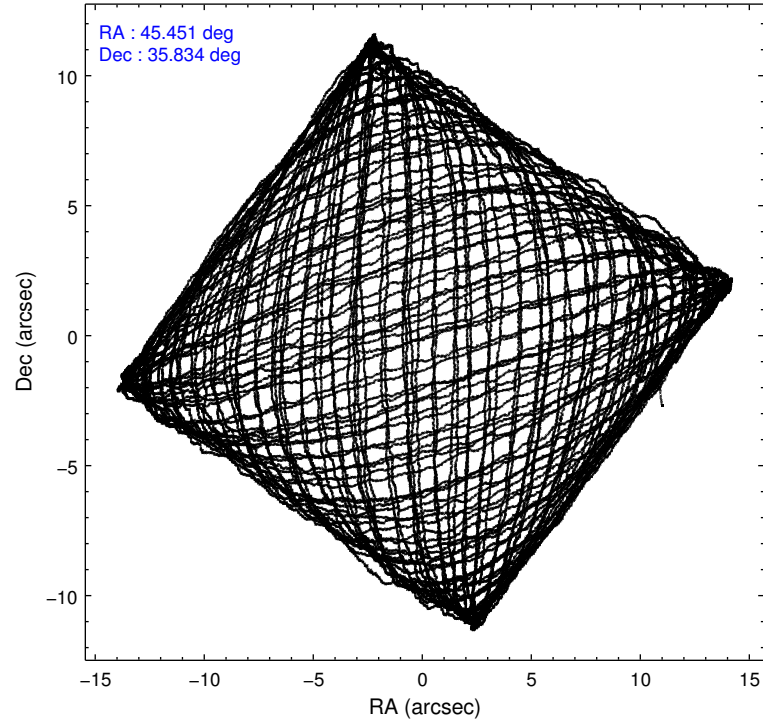
	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	295750	321321	409452	393795
rejected events	264801	283638	223399	293190
rejected %	89%	88%	54%	74%

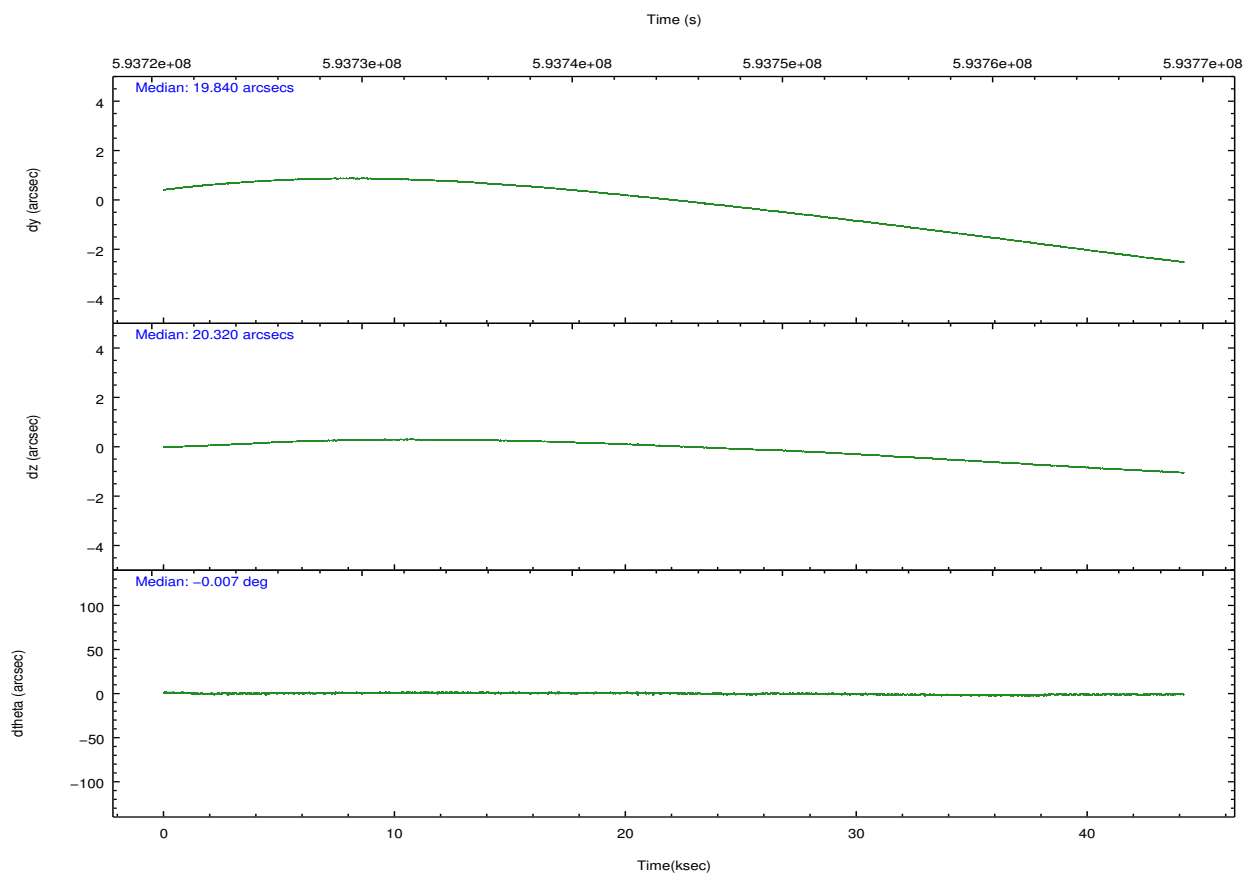
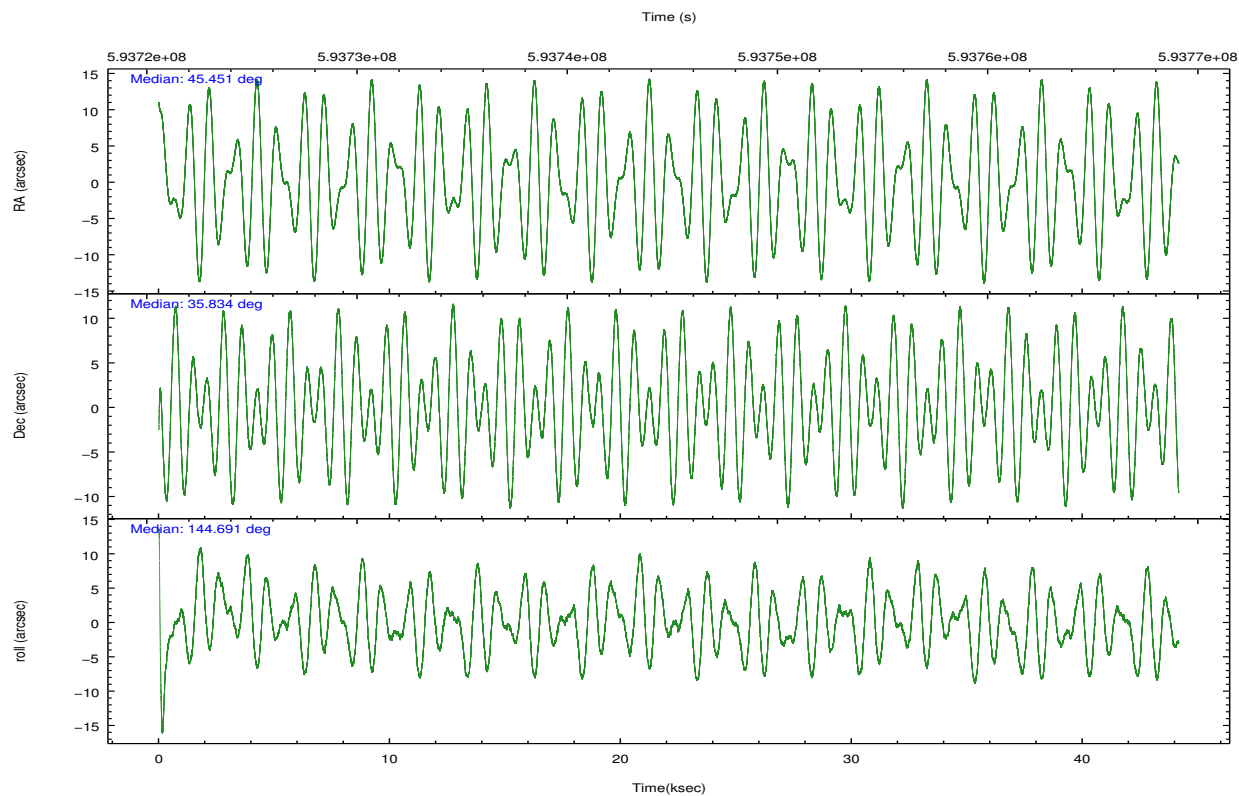
	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	10978	13841	18257	28049
	3%	4%	4%	7%
grade 1 events	171	158	481	295
	0%	0%	0%	0%
grade 2 events	6685	8604	40626	25158
	2%	2%	9%	6%
grade 3 events	3279	3361	14966	10269
	1%	1%	3%	2%
grade 4 events	3417	3405	14884	9708
	1%	1%	3%	2%
grade 5 events	14131	14288	37512	21455
	4%	4%	9%	5%
grade 6 events	6591	8476	97343	27433
	2%	2%	23%	6%
grade 7 events	250498	269188	185383	271428
	84%	83%	45%	68%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-3678	ACIS-3678	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	45.484732	45.45099966654933	CCD I2 on	O1	N
[deg] Pointing Dec	35.831525	35.83370170816163	CCD I3 on	O2	Y
[deg] Pointing Roll	144.520032	144.6964189833288	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	Y	Y
[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	Y	Y
[s] Observation start time (MET)	593722932.184000	593721752.84795	CCD S5 on	N	N
Observation start date	2016-10-24T19:01:04	2016-10-24T18:42:32	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	593766932.184000	593768010.58811	On-chip summing requested	N	N
Observation end date	2016-10-25T07:14:24	2016-10-25T07:33:30	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



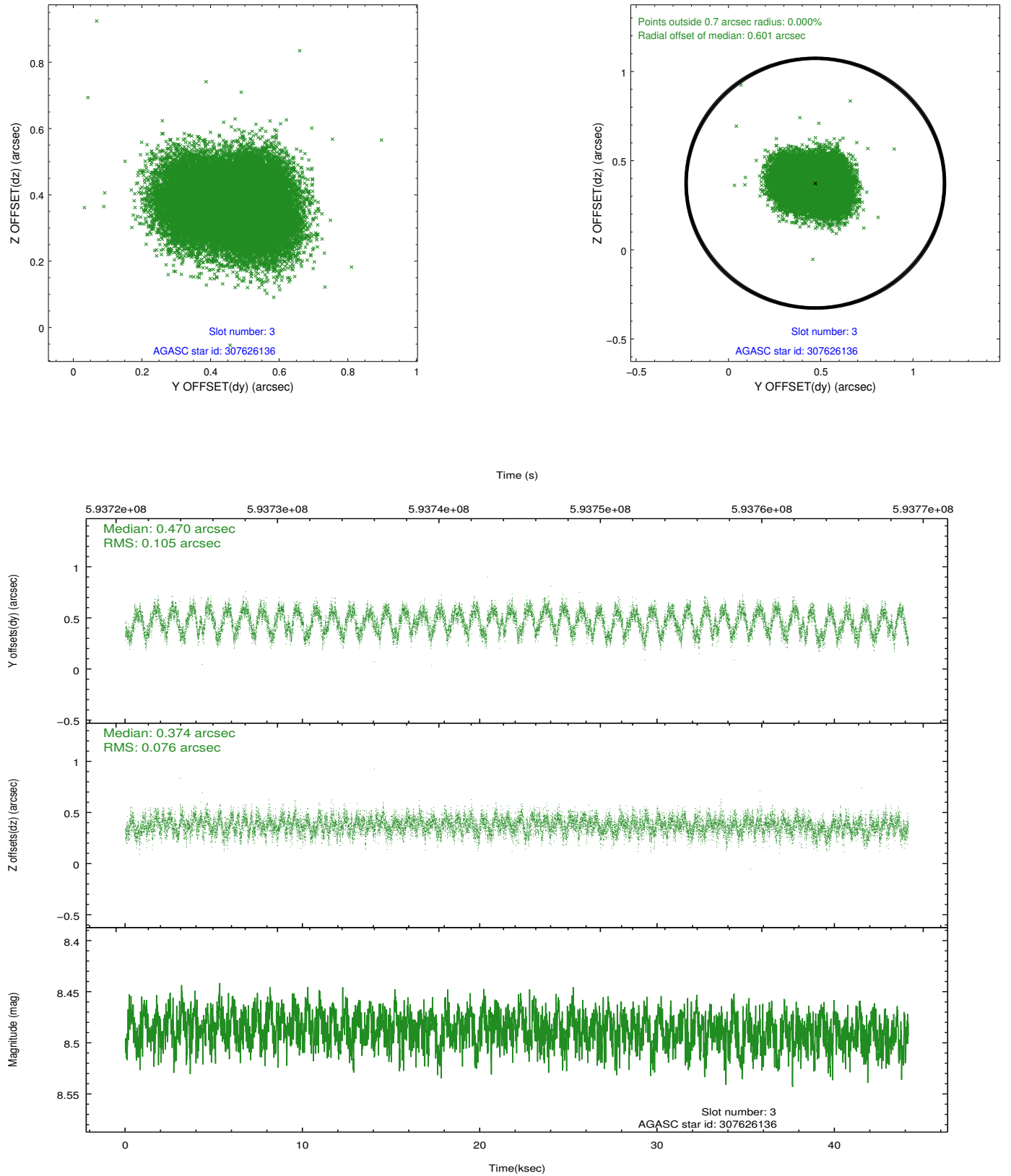


Slot Statistics

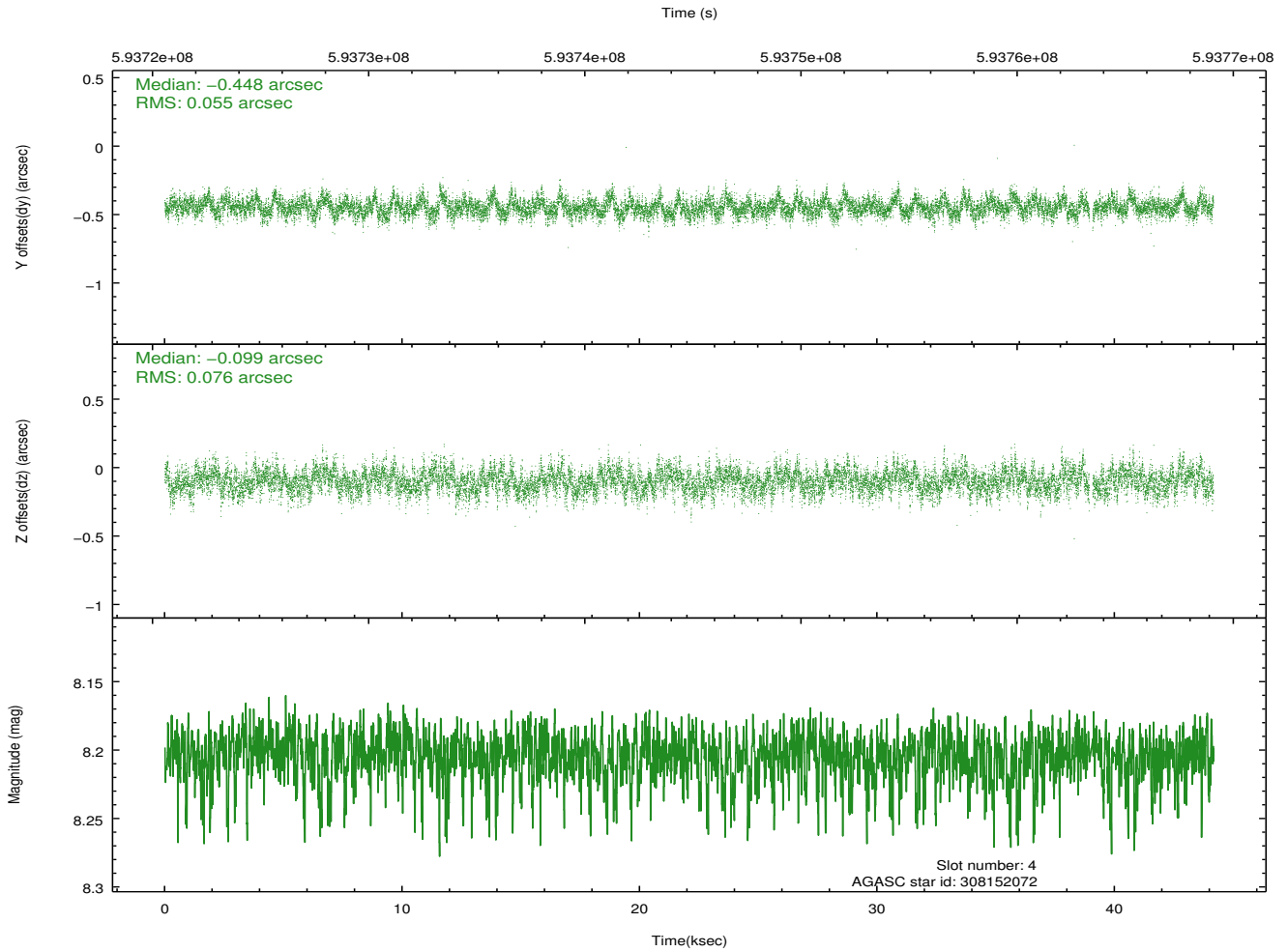
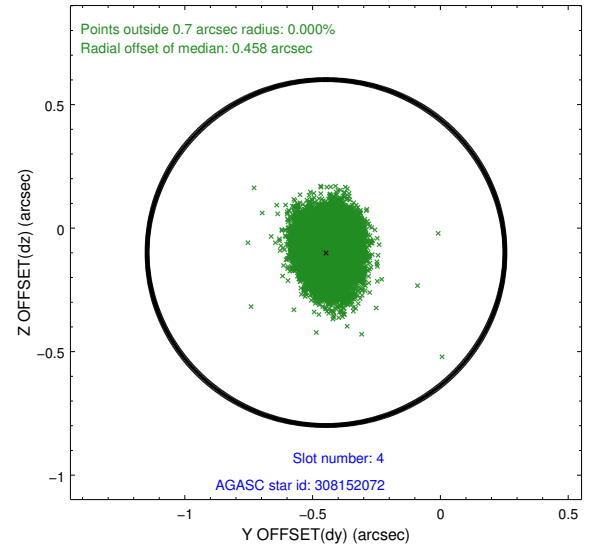
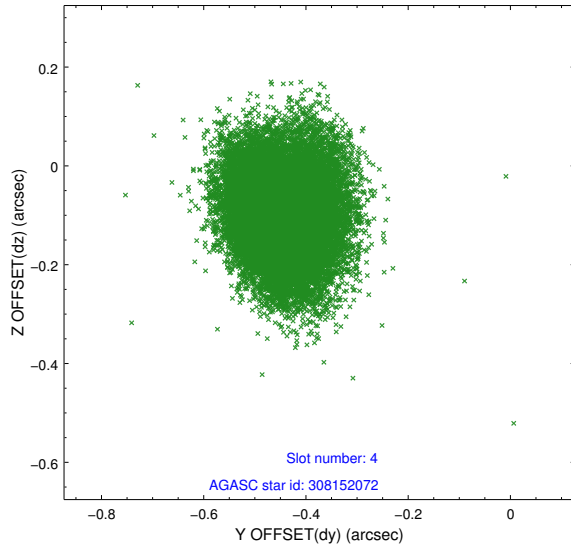
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.19	10772	0.008	-0.109	0.033	0.066	0.000000	0.000000	923.49	-1737.40
1	FID		ACIS-S-4	7.22	10772	0.394	0.075	0.024	0.044	0.000000	0.000000	2141.20	166.97
2	FID		ACIS-S-5	7.21	10771	-0.440	0.047	0.038	0.052	0.000000	0.000000	-1825.92	160.42
3	GUIDE	used	307626136	8.49	21533	0.470	0.374	0.142	0.212	46.076477	35.572818	-1947.57	-250.85
4	GUIDE	used	308152072	8.20	21465	-0.448	-0.099	0.099	0.165	45.152969	35.680994	476.04	1003.11
5	GUIDE	used	308154856	8.30	21532	0.253	0.089	0.128	0.212	45.089106	36.388246	2099.03	-967.16
6	GUIDE	used	308157112	7.90	21535	-0.104	0.109	0.087	0.147	45.281171	36.187367	1225.83	-700.06
7	GUIDE	used	305924544	9.25	21528	-0.179	-0.464	0.194	0.284	44.676042	35.560455	1366.16	2164.27

2.4 Star Slots

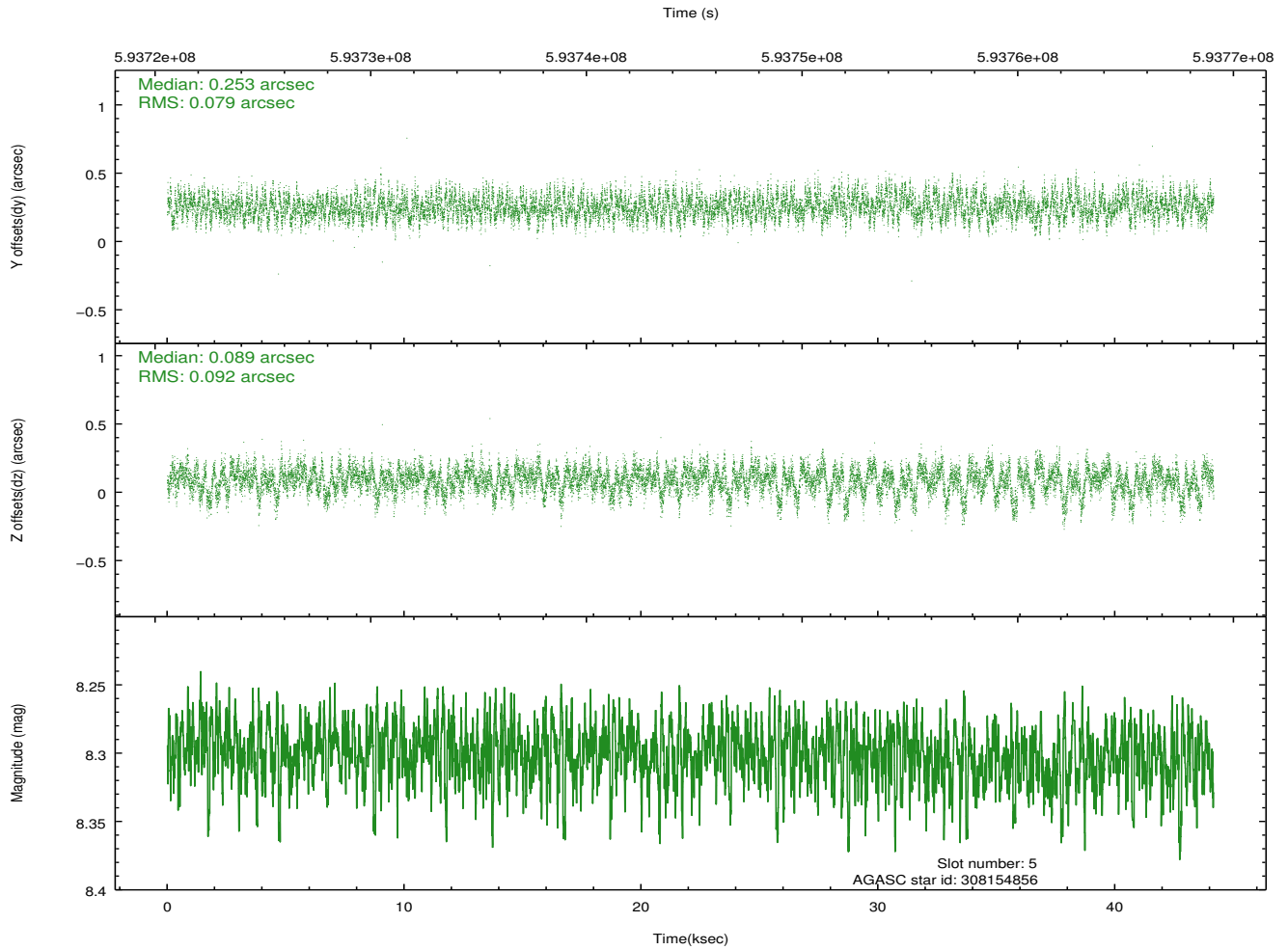
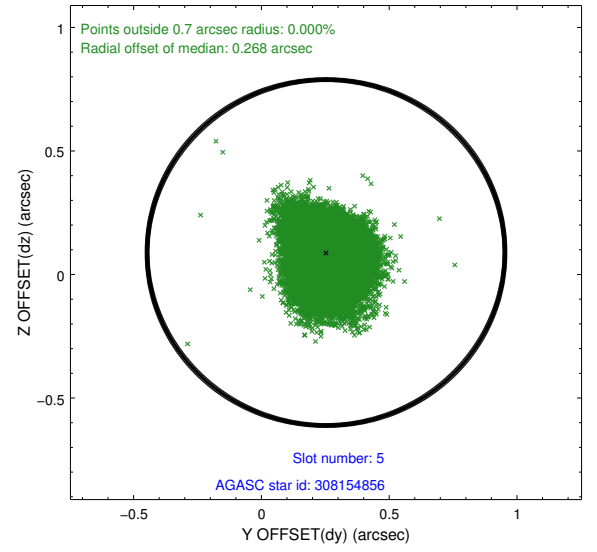
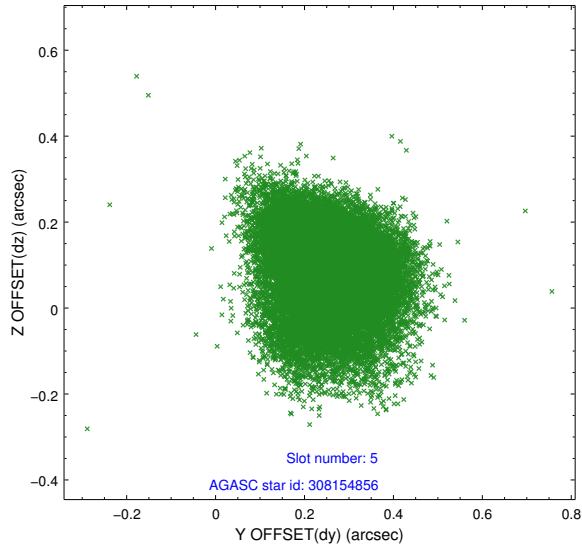
2.4.1 Slot 3



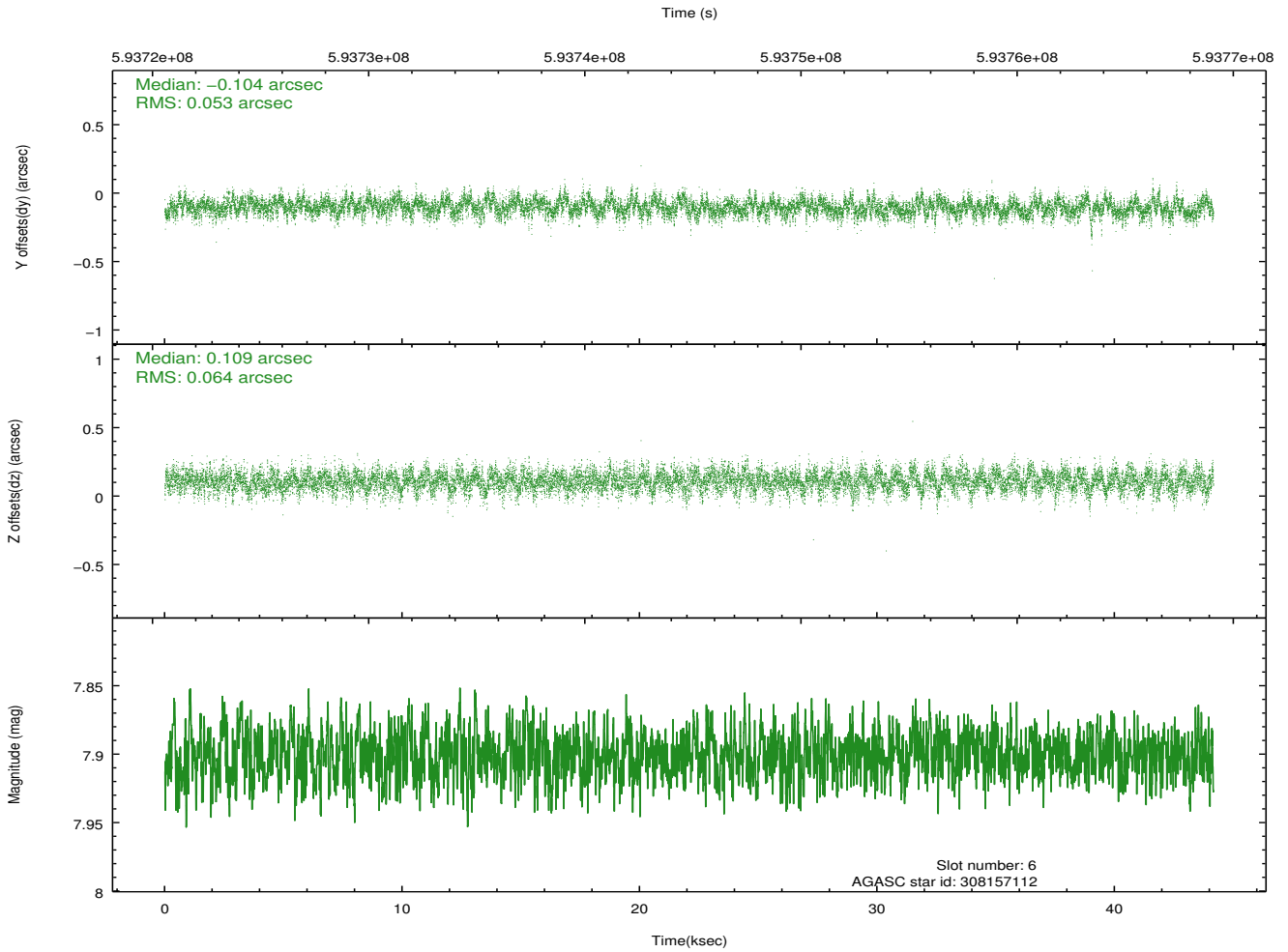
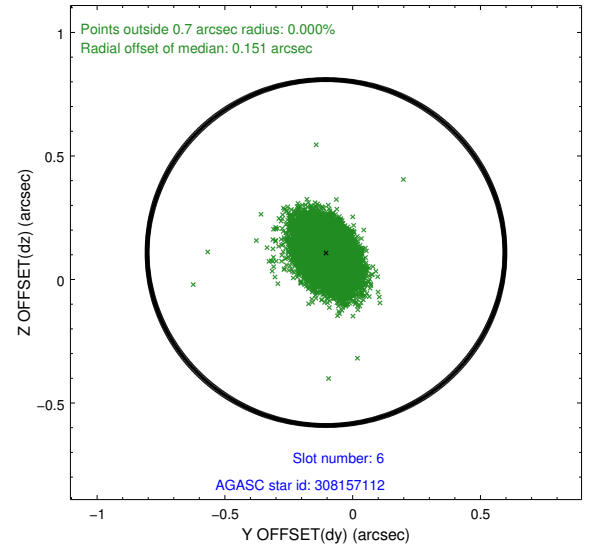
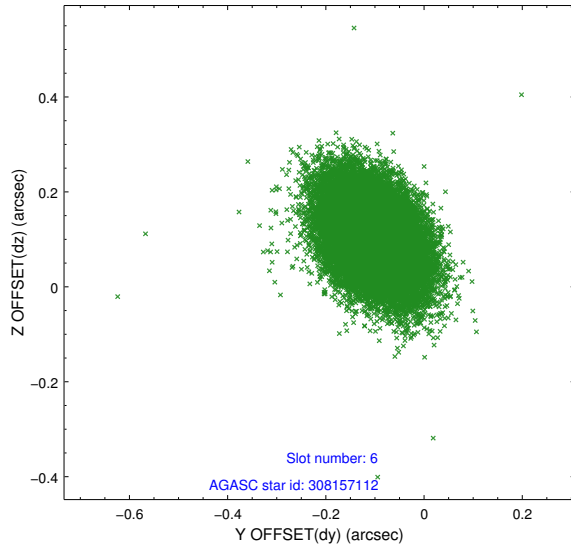
2.4.2 Slot 4



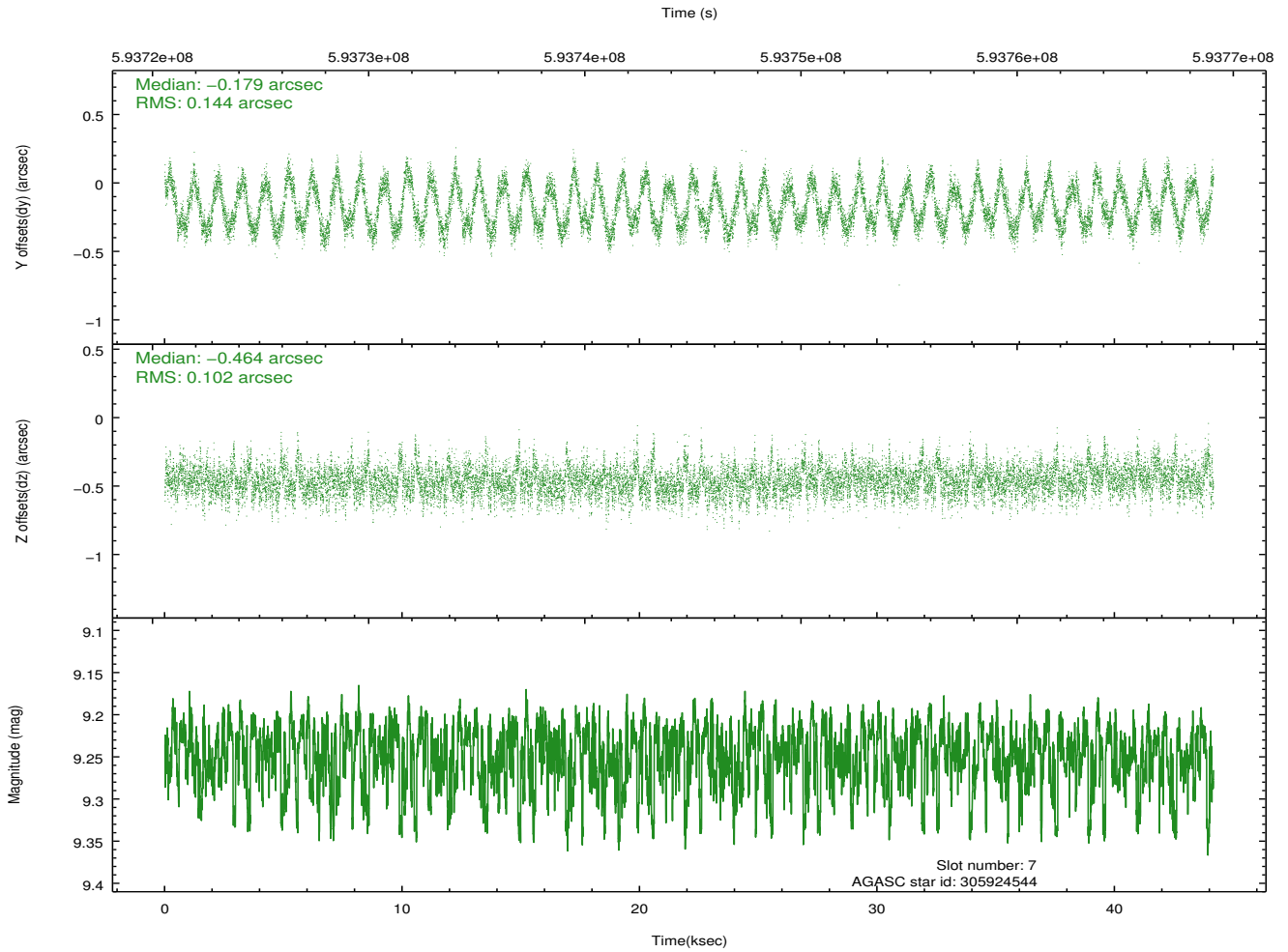
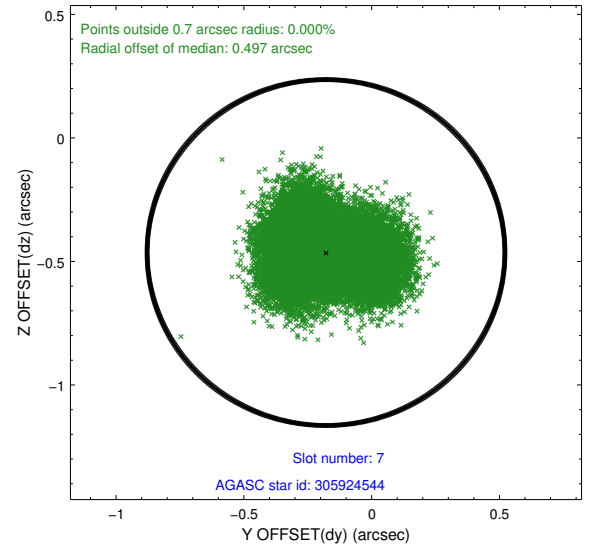
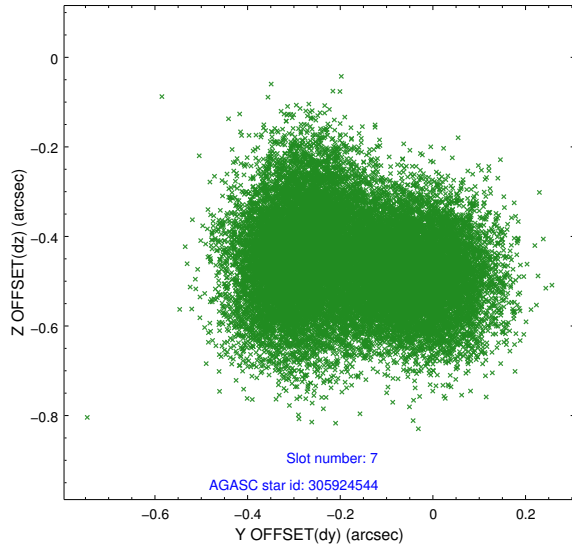
2.4.3 Slot 5



2.4.4 Slot 6

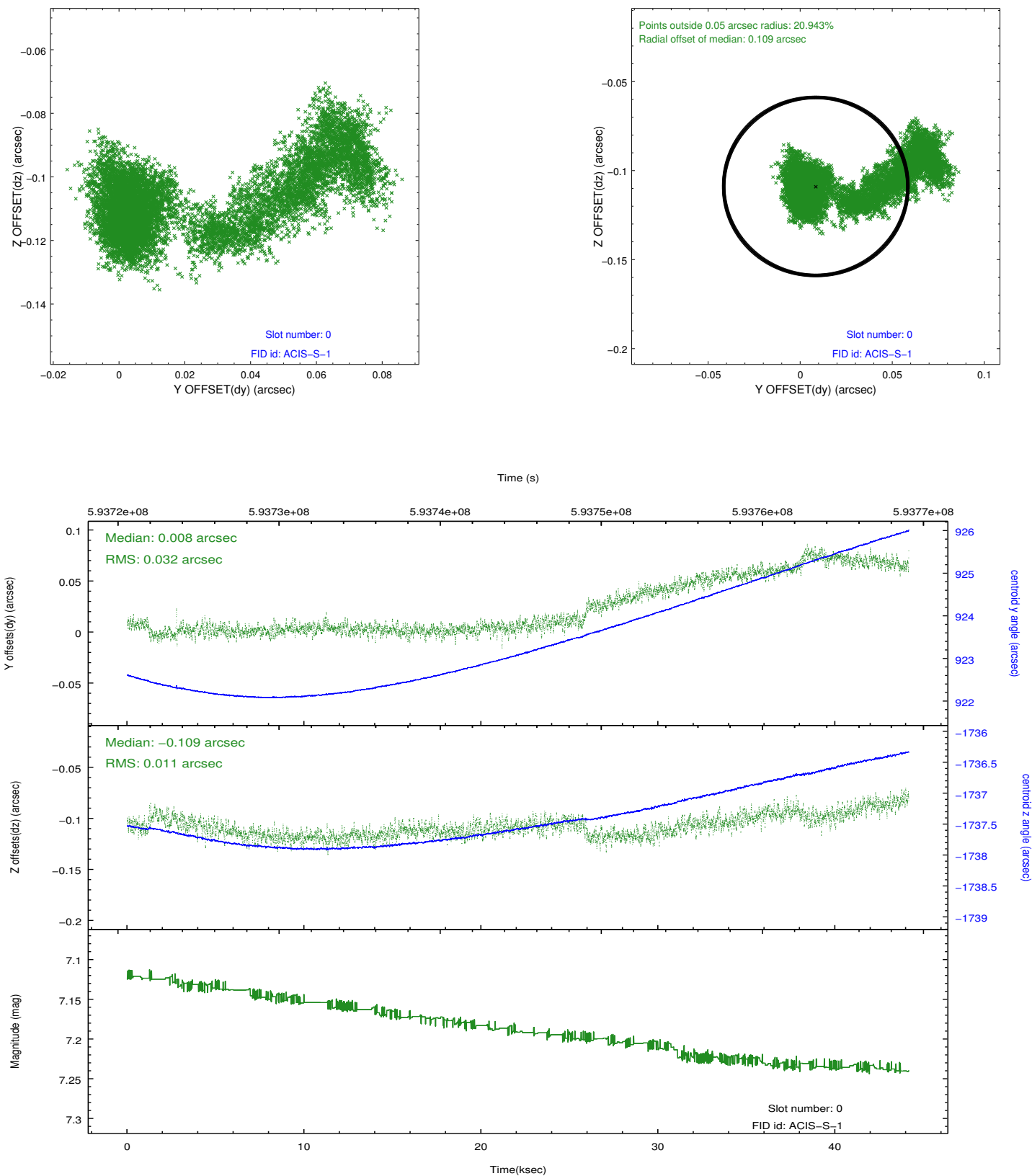


2.4.5 Slot 7

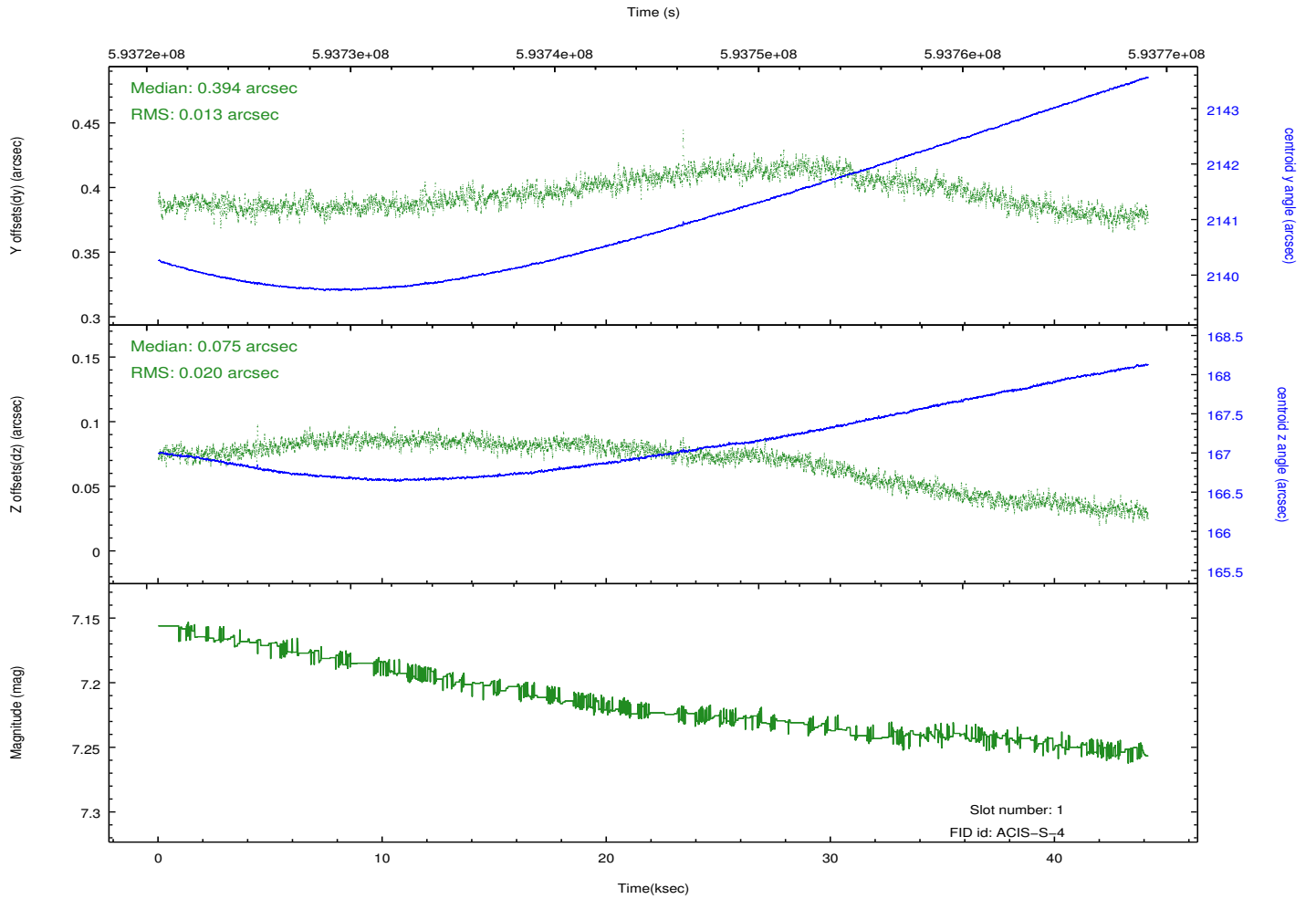
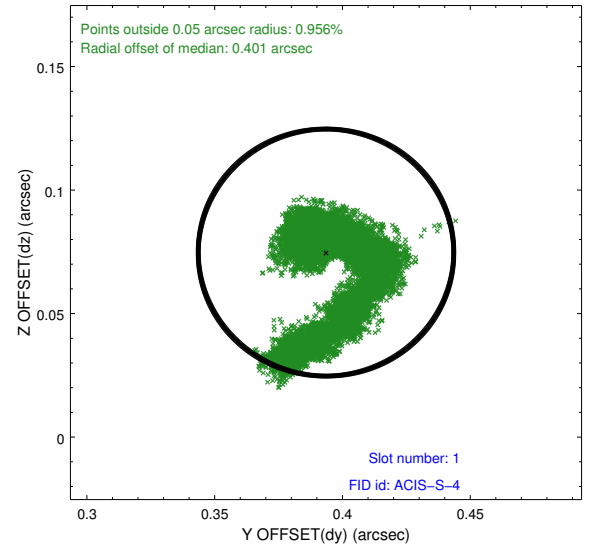
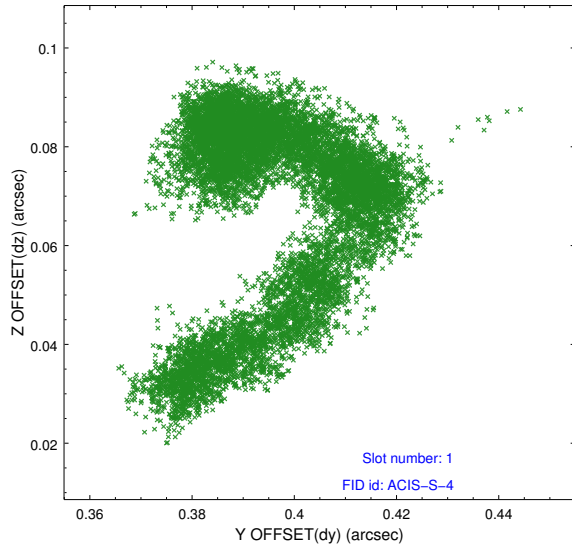


2.5 FID Slots

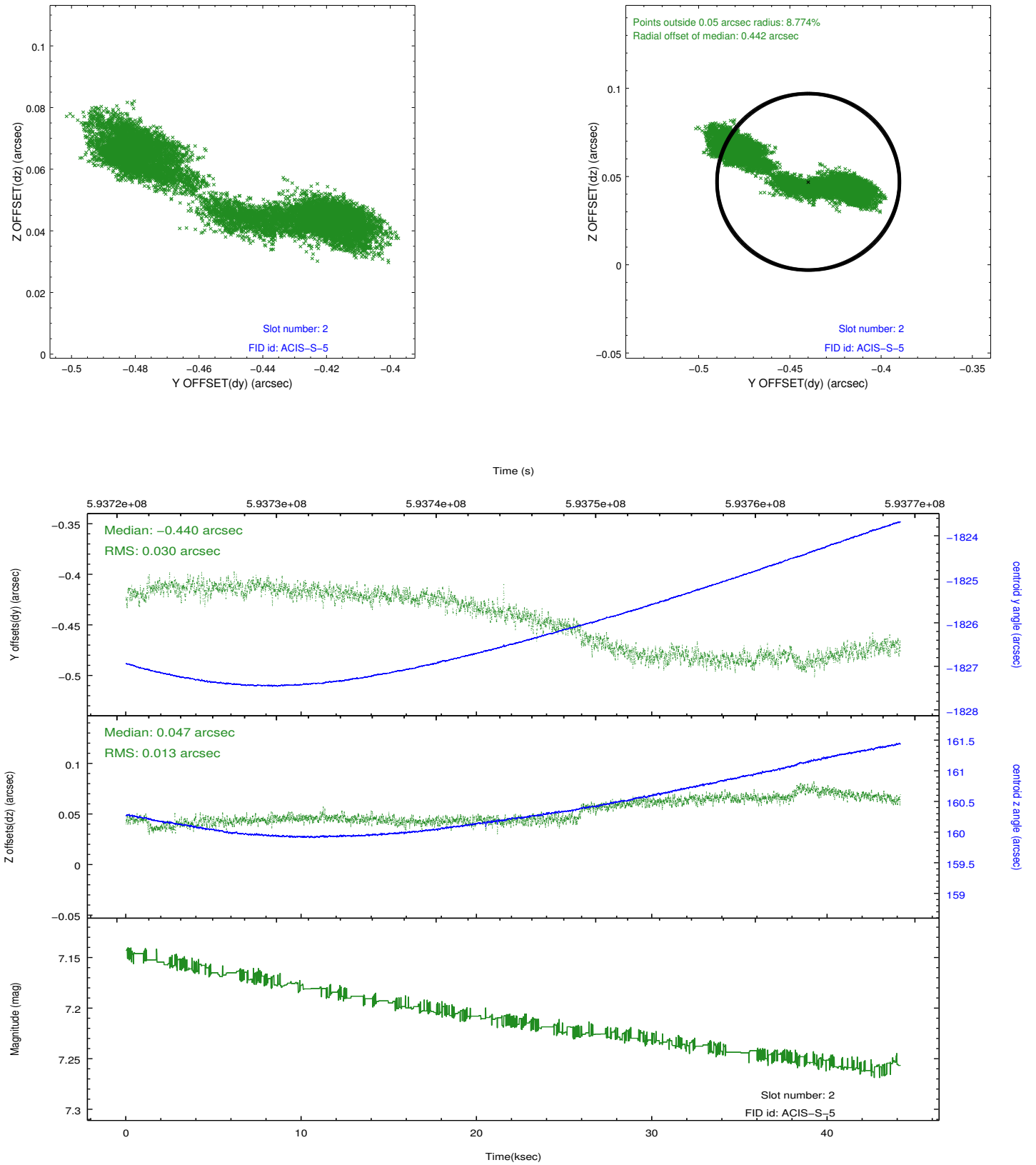
2.5.1 Slot 0



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)	2016.10.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	44.060300338984

A.2 Comments