

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 12726 - L2 Version 3
Chandra X-Ray Center

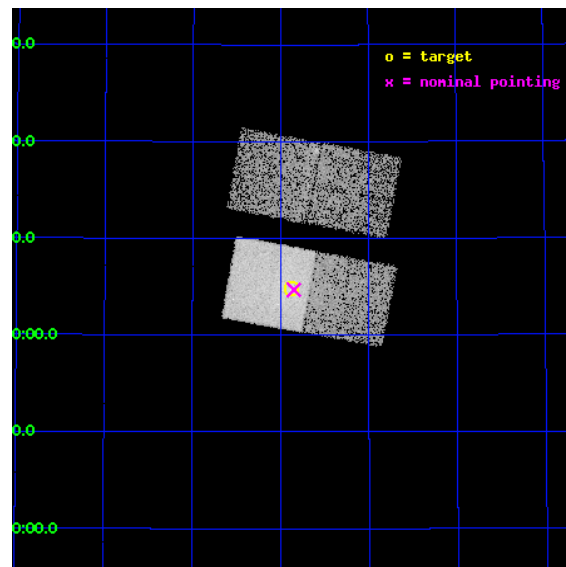
L2 Processing Date : Jul 25 2012

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1 Front

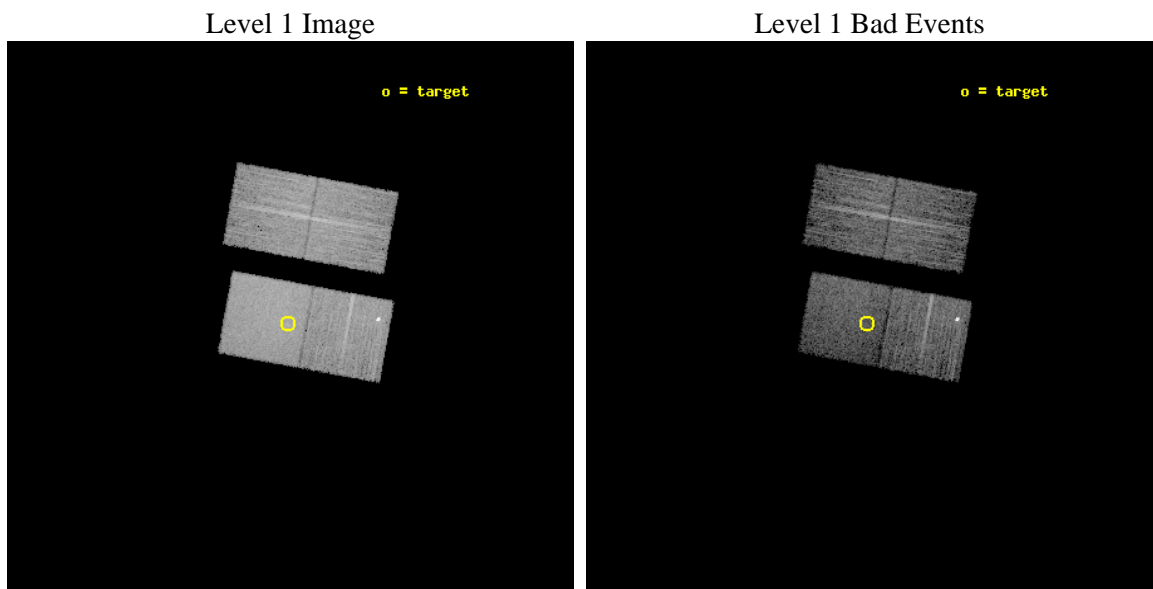
seq_num	702362	Sequence number
obs_id	12726	Observation id
title	Completing the Chandra 3C Snapshot Survey: Extragalactic Radio Sources with $z < 0.3$	Proposal title
observer	Dr. Daniel Harris	Principal investigator
object	3C 130	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	73.218333	Observer's specified target RA [deg]
dec_targ	52.081389	Observer's specified target Dec [deg]
ra_nom	73.212402089932	Nominal RA [deg]
dec_nom	52.07817421513	Nominal Dec [deg]
roll_nom	190.41628330944	Nominal Roll [deg]
revision	3	Processing version of data
ontime	8052.589368701	Sum of GTIs [s]
livetime	7947.3763603689	Livetime [s]
ontime2	8052.4662486911	Sum of GTIs [s]
ontime3	8049.3662883639	Sum of GTIs [s]
ontime6	8052.5483286977	Sum of GTIs [s]
ontime7	8052.589368701	Sum of GTIs [s]
l2events	58922	Number of level 2 events



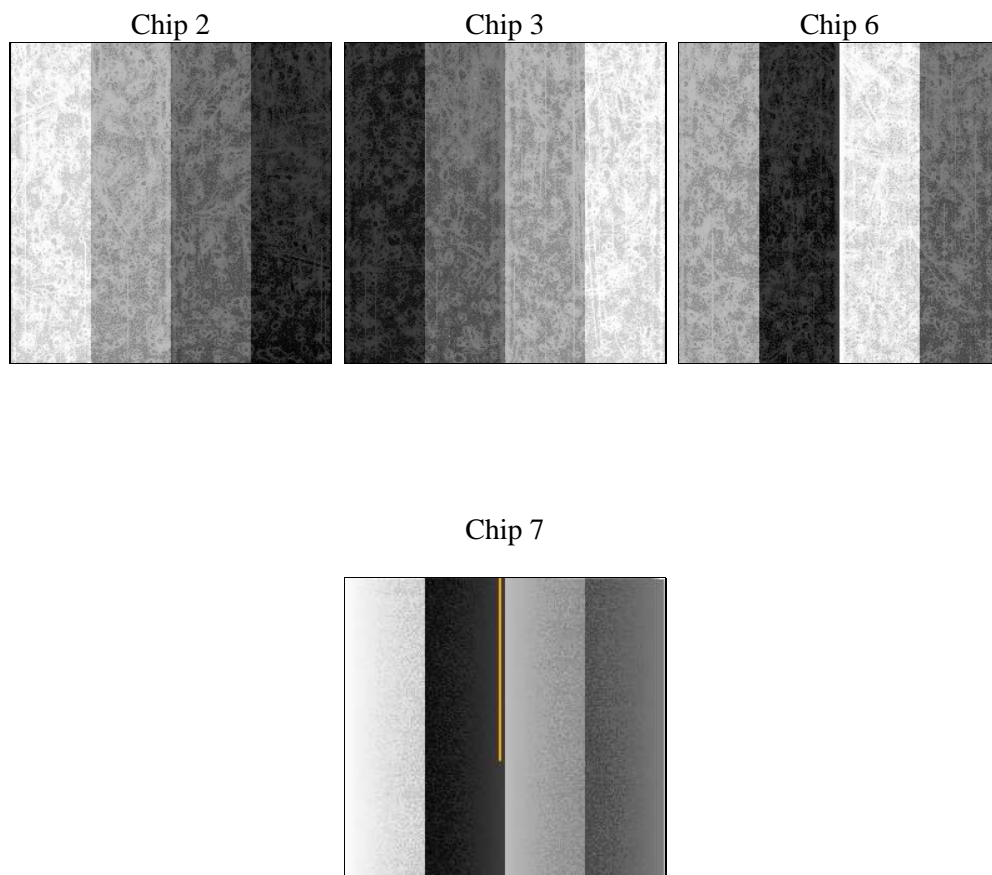
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8000.552000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	8052.589368701	Sum of GTIs [s]
caldsver	4.5.1	 	ontime2	8052.4662486911	Sum of GTIs [s]
date	2012-07-25T15:59:41	Date and time of file creation	ontime3	8049.3662883639	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	8052.5483286977	Sum of GTIs [s]
			ontime7	8052.589368701	Sum of GTIs [s]
			l1events	259967	Number of level 1 events

2.1.4 Events

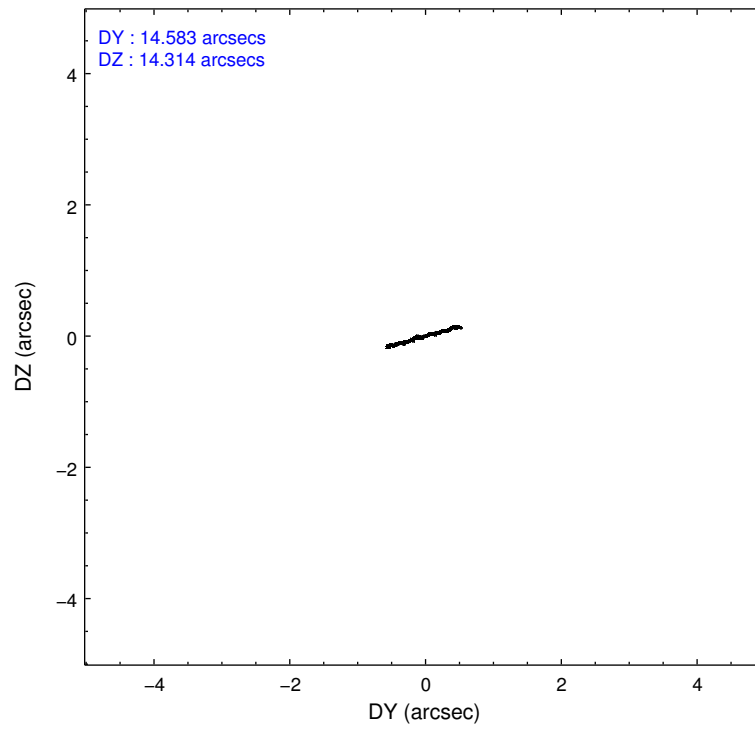
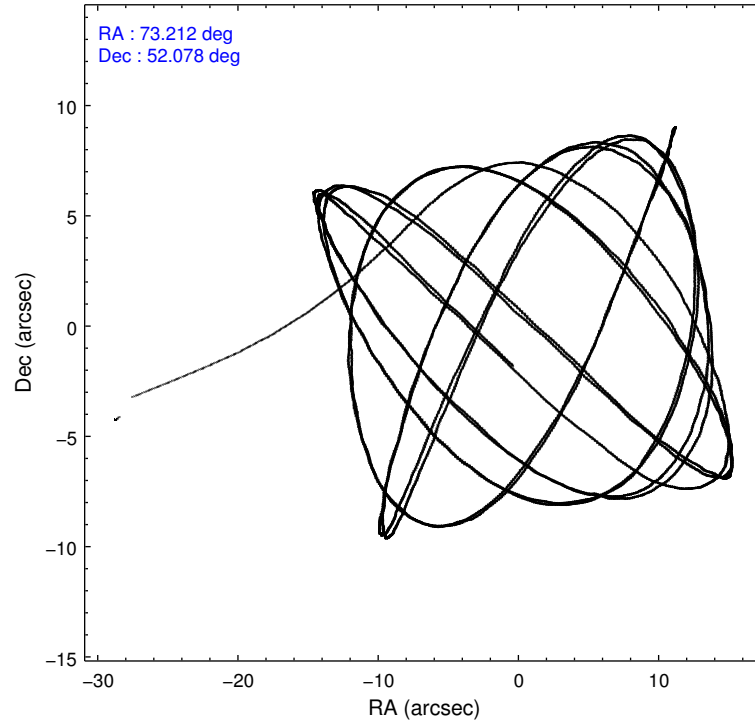
	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	58982	59344	62939	78702
rejected events	51734	52262	53888	39407
rejected %	87%	88%	85%	50%

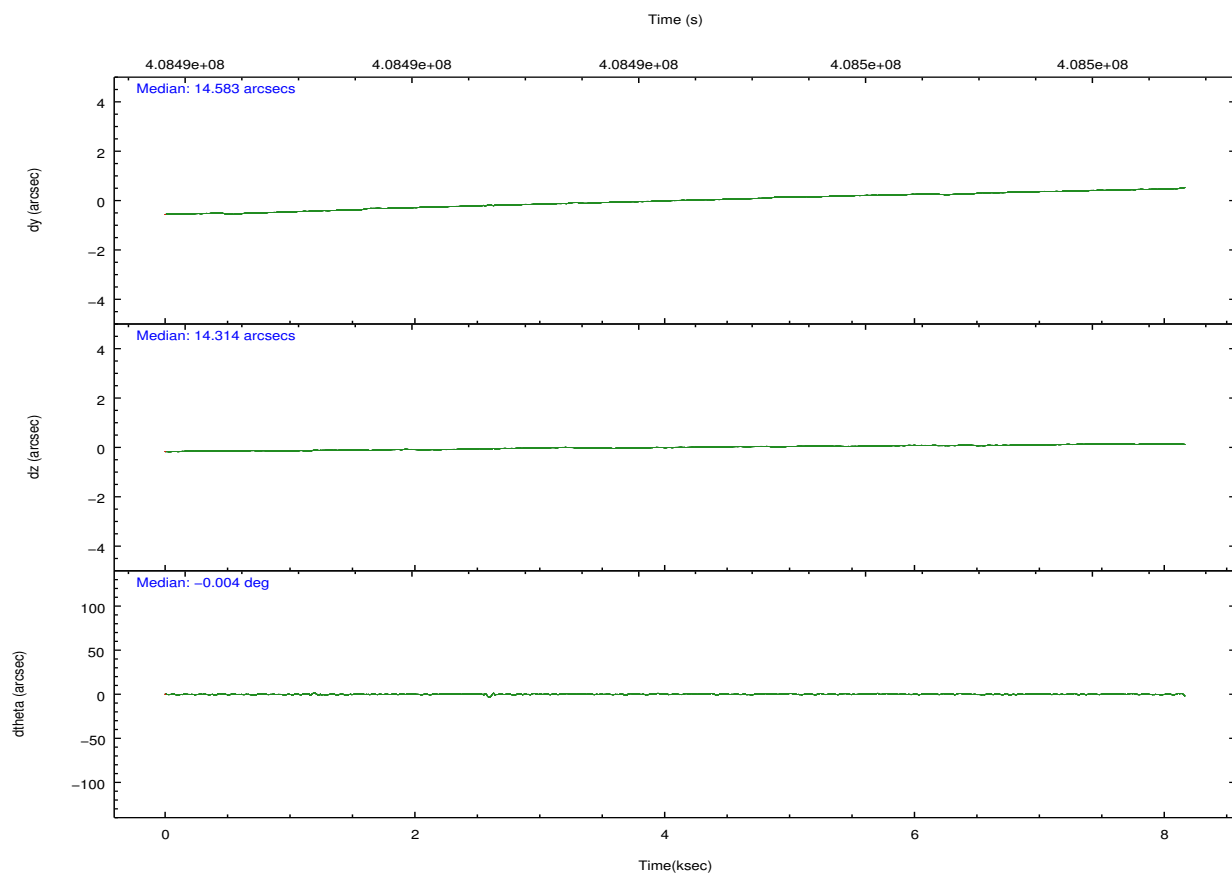
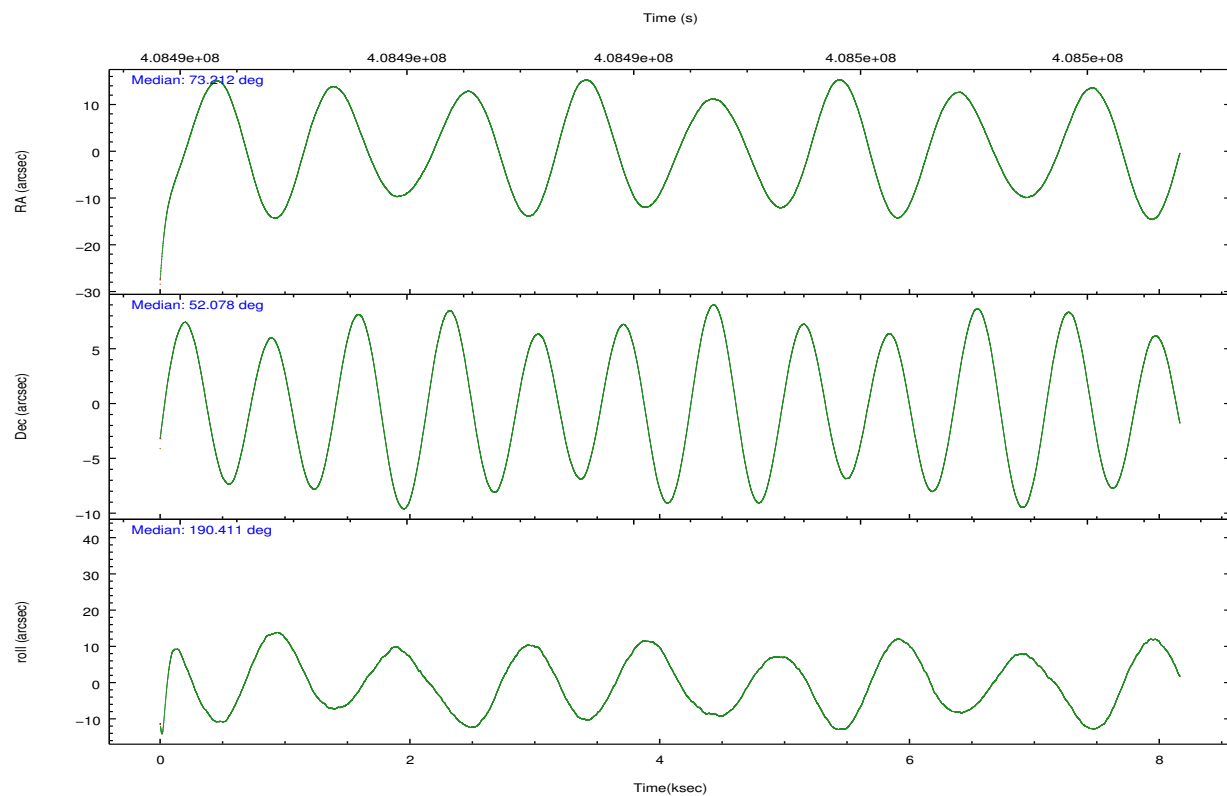
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	3021	2976	4238	4389
	5%	5%	6%	5%
grade 1 events	42	42	2477	94
	0%	0%	3%	0%
grade 2 events	1565	1420	1767	8171
	2%	2%	2%	10%
grade 3 events	676	703	780	3635
	1%	1%	1%	4%
grade 4 events	698	694	730	3475
	1%	1%	1%	4%
grade 5 events	2339	2706	2637	7409
	3%	4%	4%	9%
grade 6 events	1290	1292	1537	19641
	2%	2%	2%	24%
grade 7 events	49351	49511	48773	31888
	83%	83%	77%	40%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-2367	ACIS-2367	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	73.245971	73.2124020899315	CCD I2 on	O1	Y
[deg] Pointing Dec	52.096149	52.07817421512956	CCD I3 on	O2	Y
[deg] Pointing Roll	190.233229	190.4162833094414	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	N	N
[s] Observation start time (MET)	408490405.184000	408489501.5454	CCD S5 on	N	N
Observation start date	2010-12-11T21:32:19	2010-12-11T21:18:21	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	408498405.184000	408498631.22087	On-chip summing requested	N	N
Observation end date	2010-12-11T23:45:39	2010-12-11T23:50:31	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



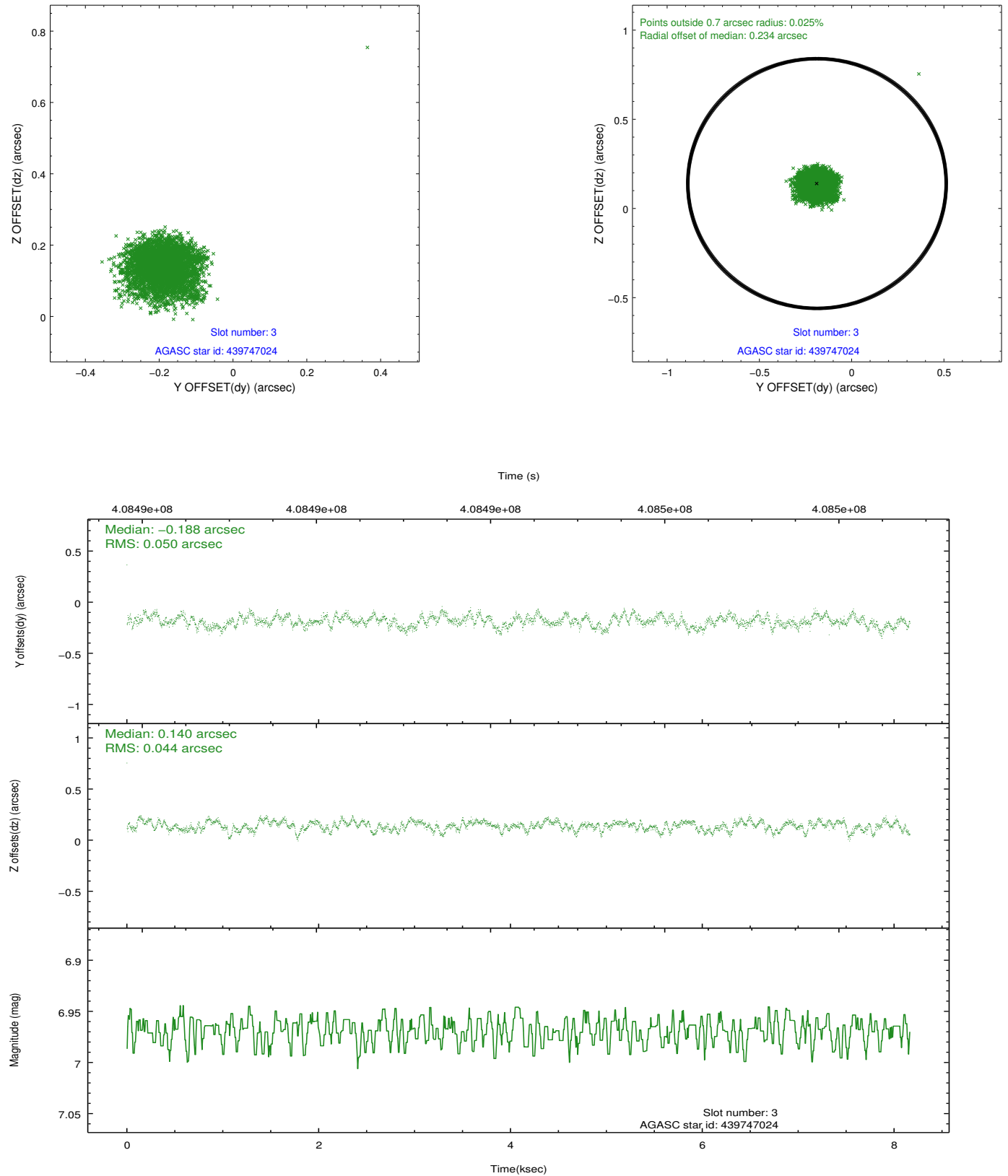


Slot Statistics

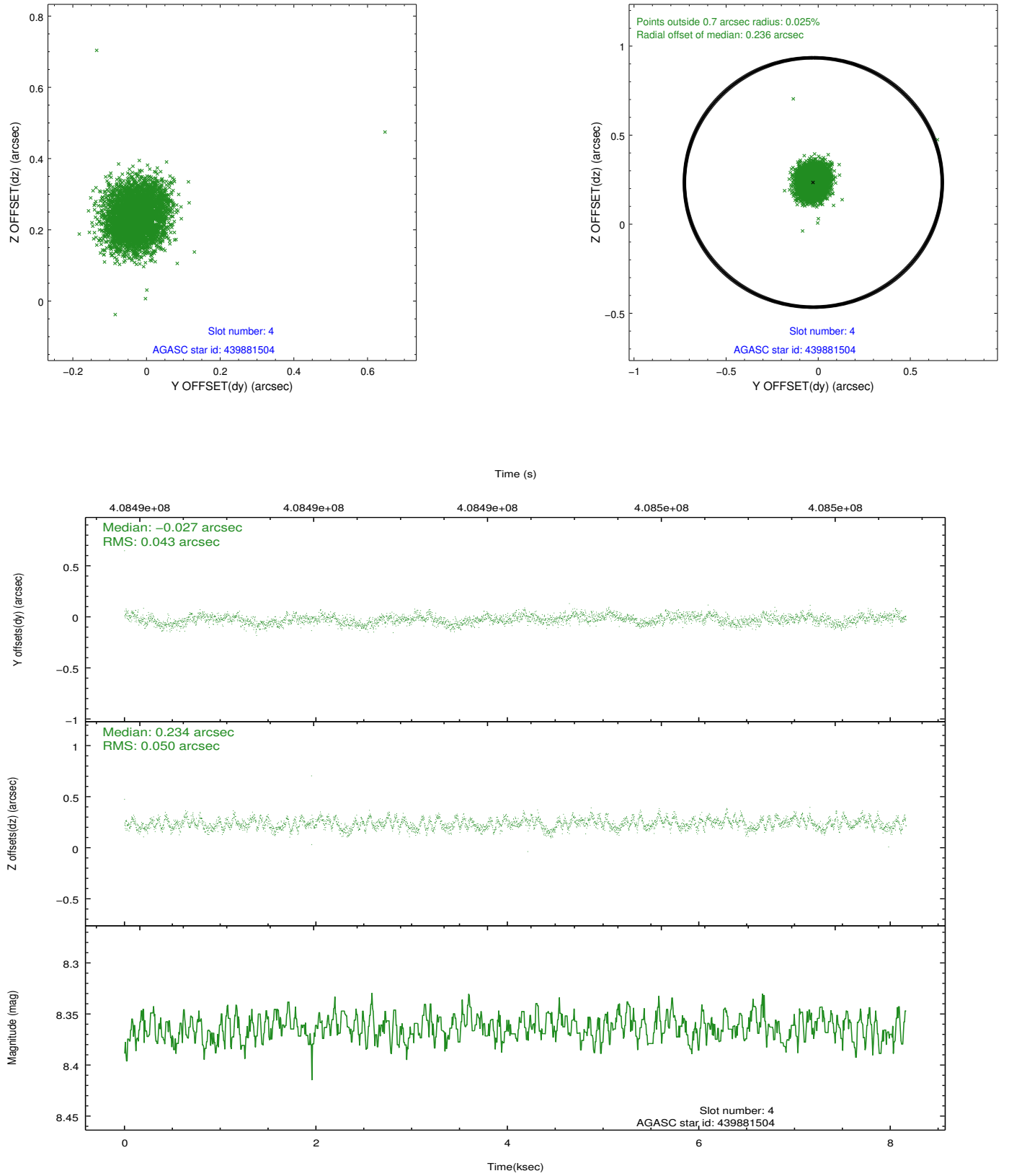
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.98	1991	-0.088	-0.066	0.015	0.022	0.000000	0.000000	-767.60	-1735.74
1	FID	ACIS-S-4	7.06	1992	0.228	0.060	0.009	0.016	0.000000	0.000000	2145.67	172.17
2	FID	ACIS-S-5	7.09	1992	-0.172	0.015	0.016	0.022	0.000000	0.000000	-1819.66	166.56
3	GUIDE	439747024	6.97	3984	-0.188	0.140	0.071	0.112	72.775031	52.236718	931.35	-685.17
4	GUIDE	439881504	8.36	3982	-0.027	0.234	0.069	0.109	73.798852	52.463594	-1428.66	-1090.60
5	GUIDE	439885928	8.01	3984	-0.122	-0.209	0.068	0.111	73.194509	51.542744	466.83	1940.83
6	GUIDE	489296728	9.20	3979	0.274	-0.243	0.140	0.225	72.025116	52.606306	2297.14	-2302.70
7	GUIDE	489300008	8.70	3979	0.067	0.082	0.091	0.142	73.054183	52.757837	-10.92	-2418.40

2.4 Star Slots

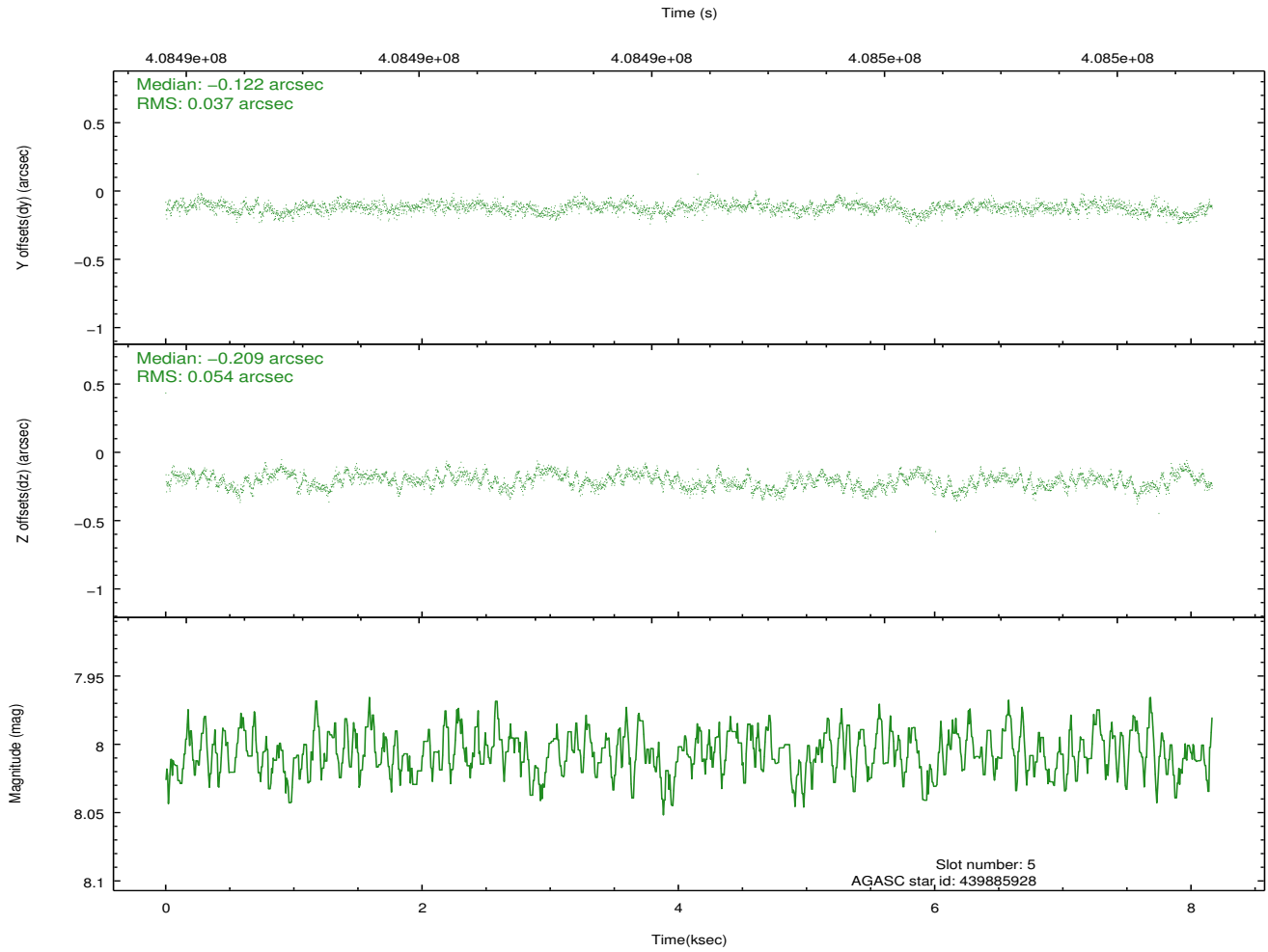
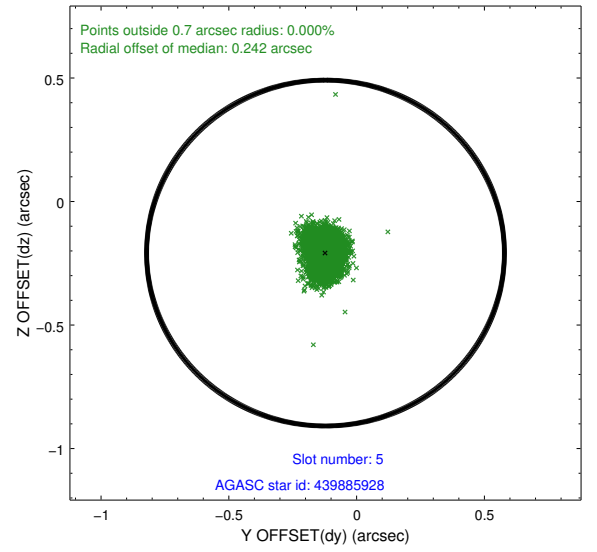
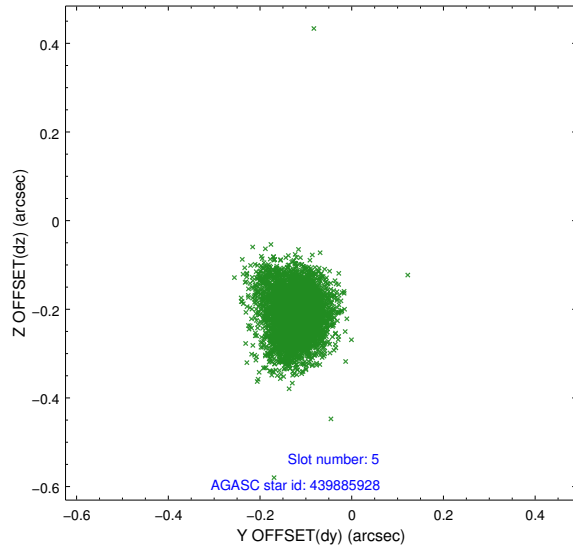
2.4.1 Slot 3



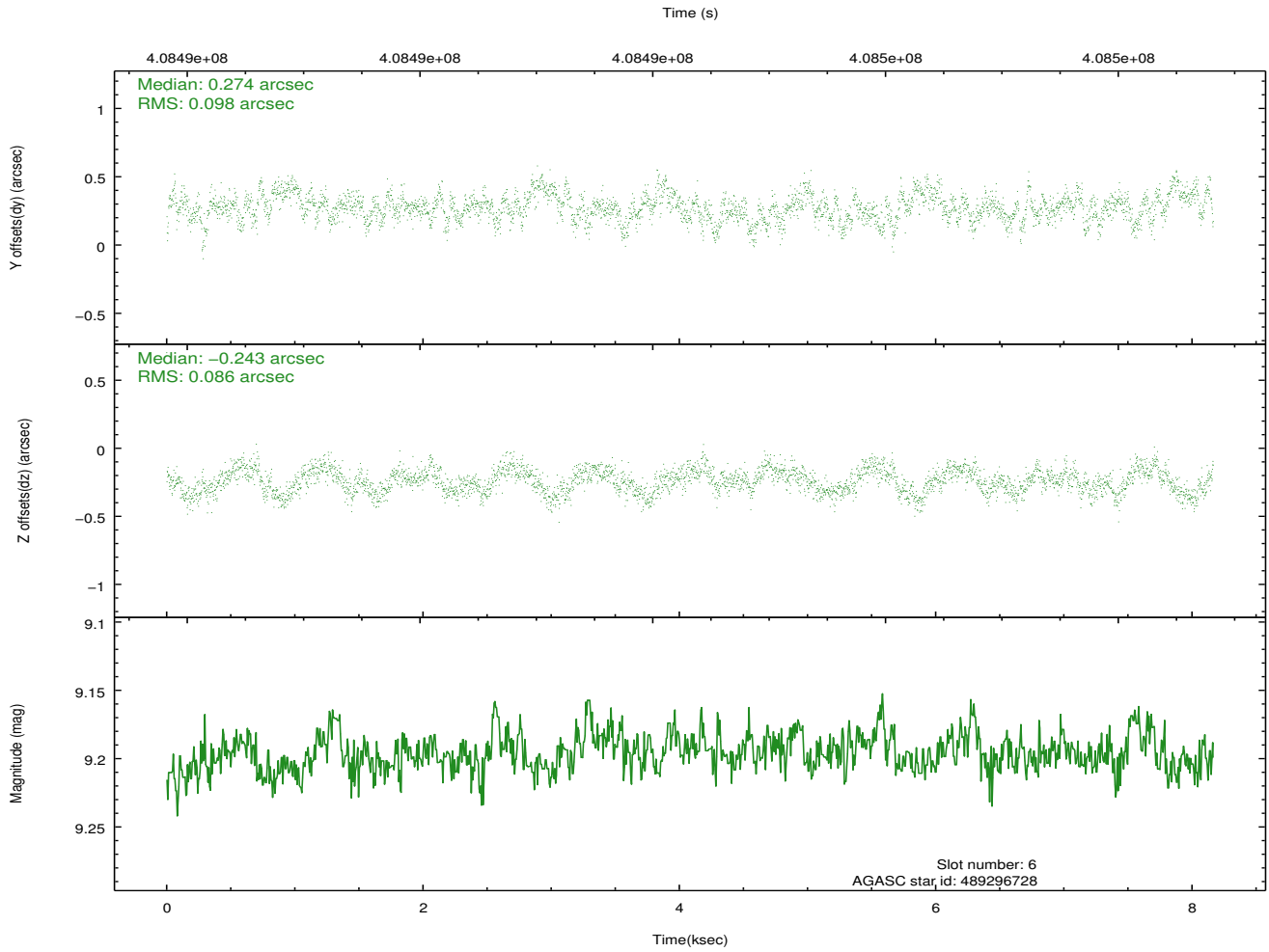
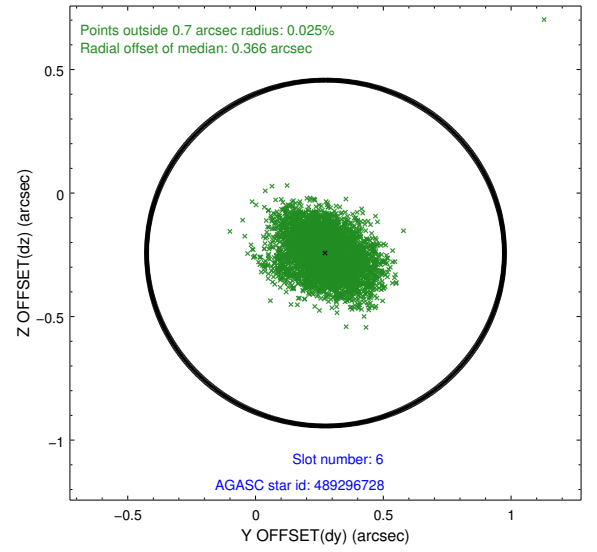
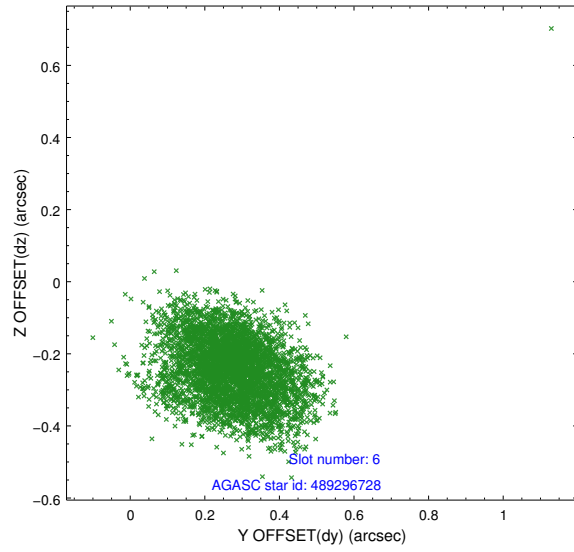
2.4.2 Slot 4



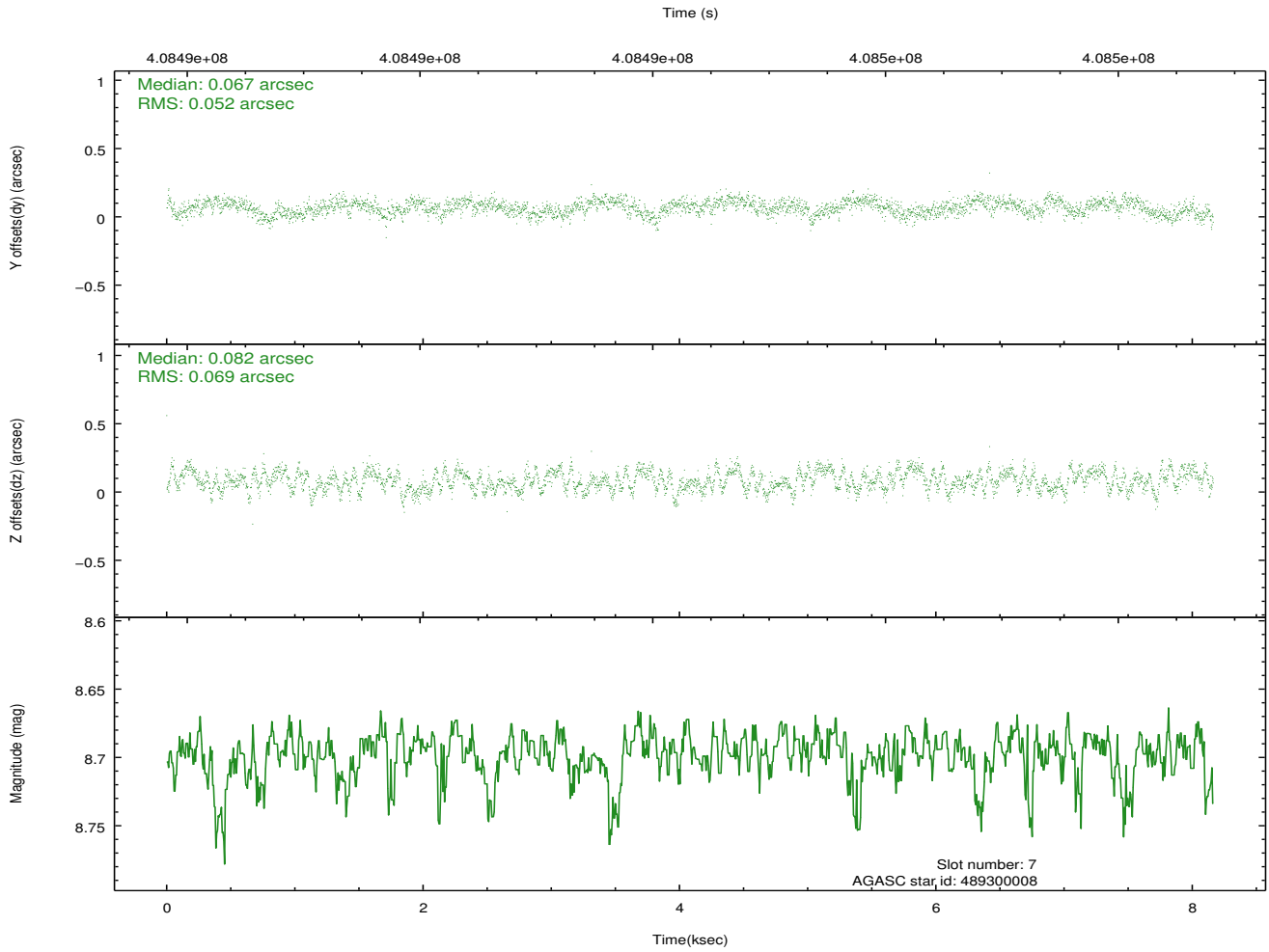
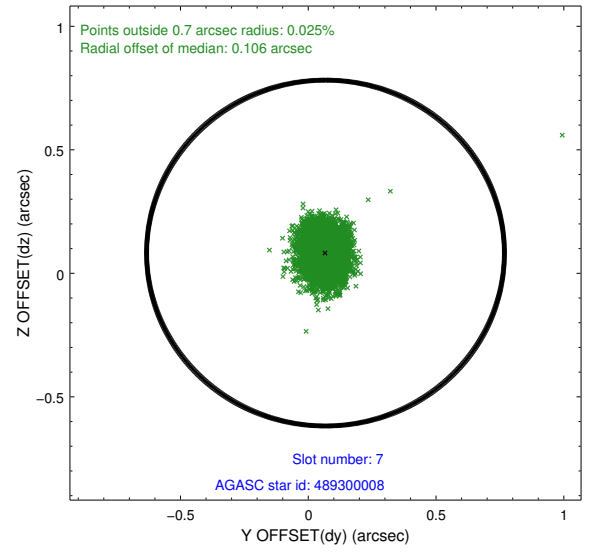
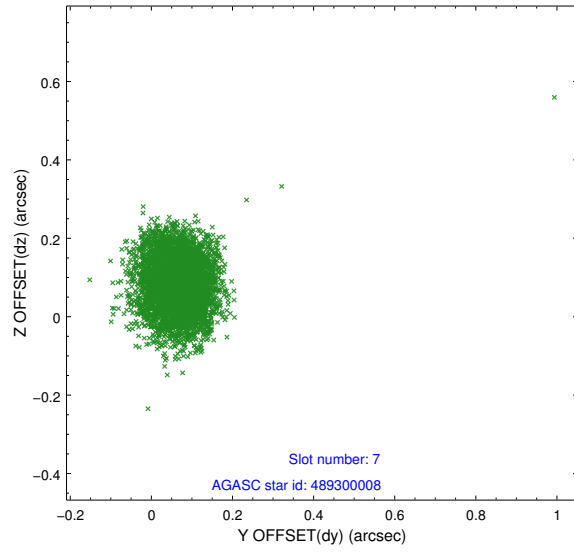
2.4.3 Slot 5



2.4.4 Slot 6

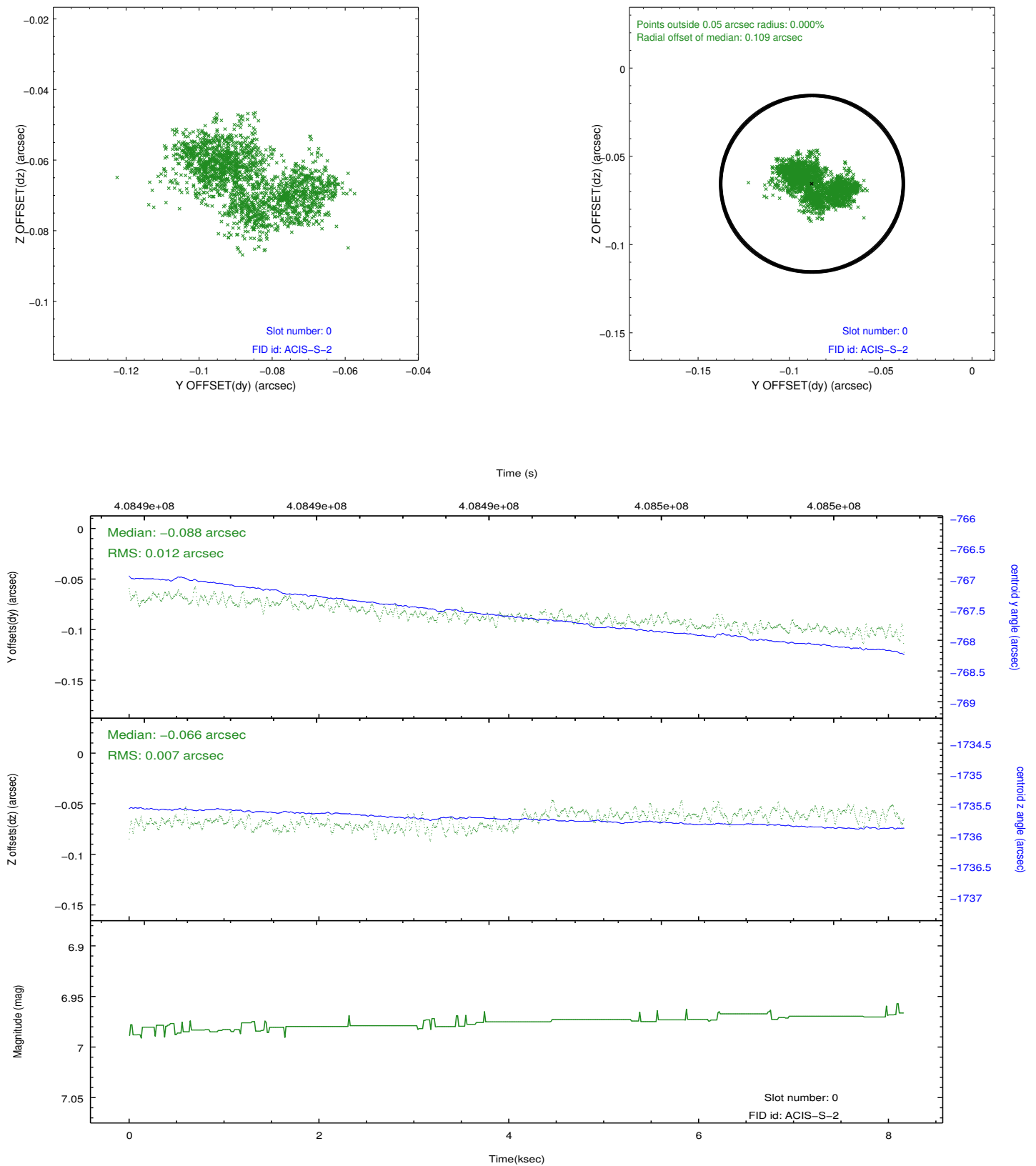


2.4.5 Slot 7

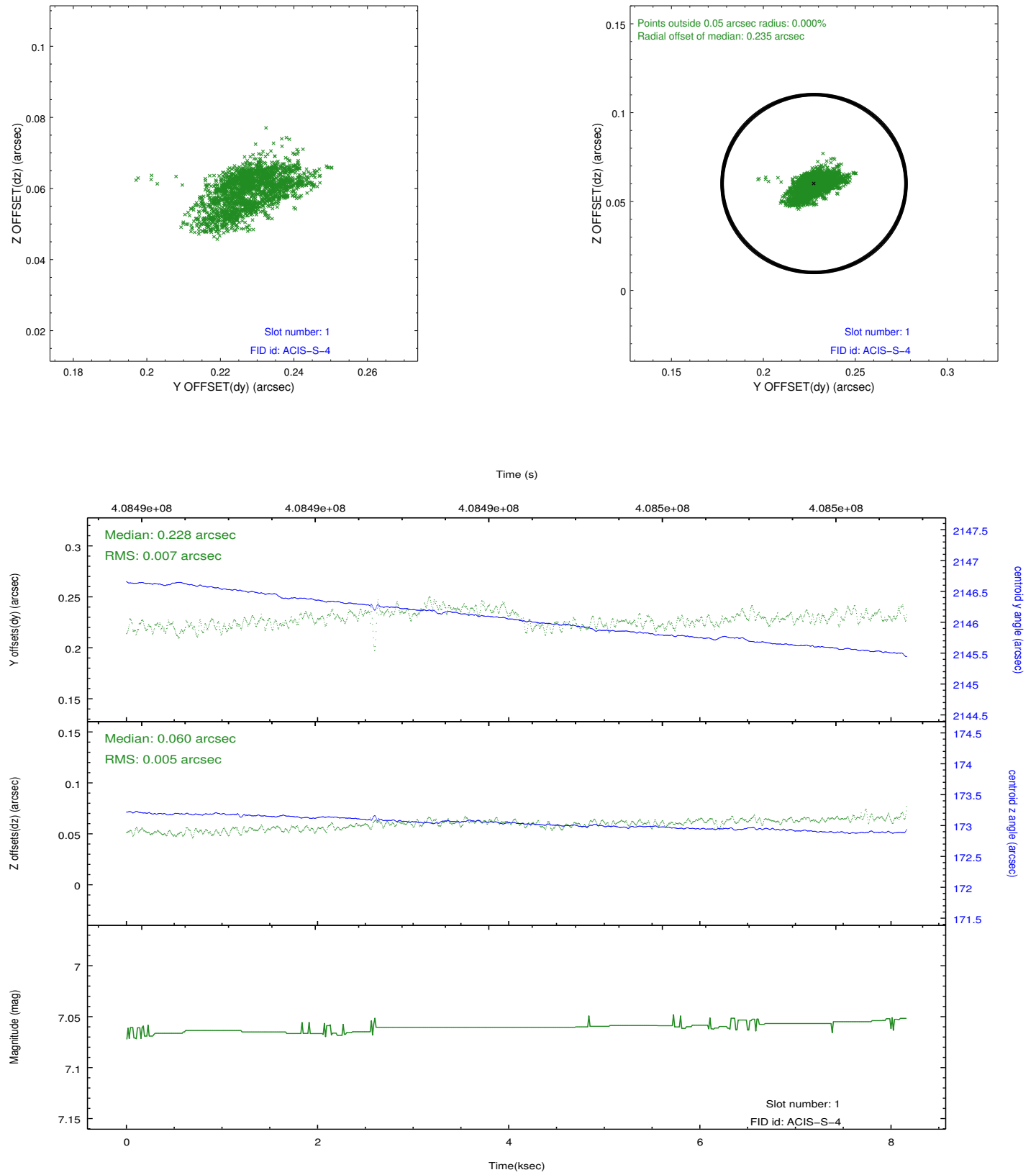


2.5 FID Slots

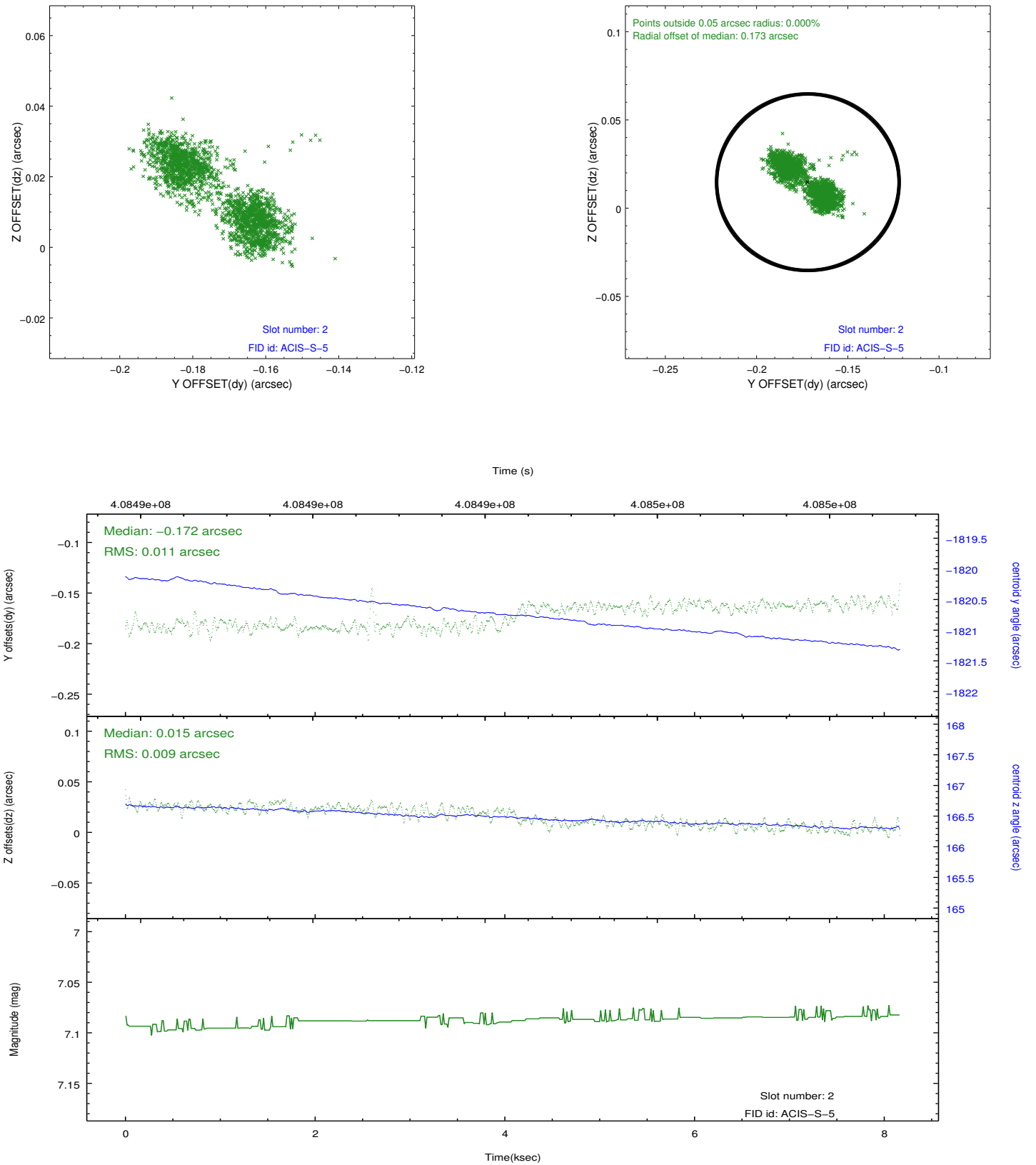
2.5.1 Slot 0



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)	2012.07.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.0525893670917

A.2 Comments

A spatial region of the original bias map for CCD = 6 suffered from anomalously high data values. Pixels in the event data that were bias-corrected by one of the original affected bias pixels may have an apparent energy shift. While the change in energy is expected to be small (~ 20 eV), it depends on many parameters that have not yet been fully explored for this bias anomaly. The bias map for CCD = 6 has been reconstructed for this processing to remove the anomaly using scaled data from a comparable bias map from another observation. The pixels affected by the anomaly are bounded by sky coords: (73.11426, 51.99742), (73.12058, 51.99815), (73.10515, 52.04913), (73.09647, 52.05619).