

V&V Reference Report

L2 ASCDS Version : 10

Observation 15656 - L2 Version 2
Chandra X-Ray Center

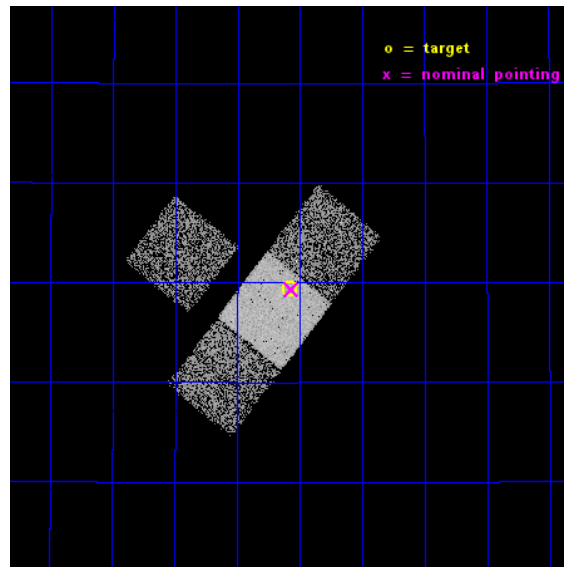
L2 Processing Date : Dec 4 2014

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1 Front

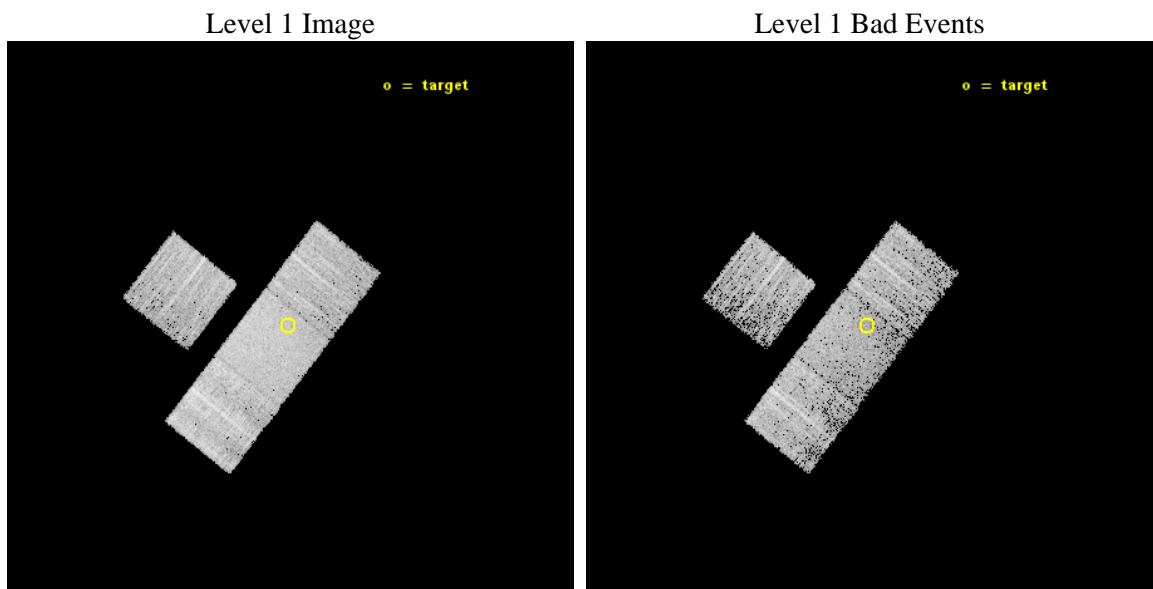
seq_num	702801	Sequence number
obs_id	15656	Observation id
title	The Herschel Legacy of powerful 3C radio galaxies and quasars II: observing Proposal.	Proposal title
observer	Dr Joanna Kuraszkiewicz	Principal investigator
object	3C441	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	331.520417	Observer's specified target RA [deg]
dec_targ	29.488861	Observer's specified target Dec [deg]
ra_nom	331.51692672585	Nominal RA [deg]
dec_nom	29.488598606486	Nominal Dec [deg]
roll_nom	128.09283831254	Nominal Roll [deg]
revision	2	Processing version of data
ontime	7076.8633780479	Sum of GTIs [s]
livetime	6984.3989481027	Livetime [s]
ontime3	7076.7812980413	Sum of GTIs [s]
ontime6	7076.8223380446	Sum of GTIs [s]
ontime7	7076.8633780479	Sum of GTIs [s]
ontime8	7076.740258038	Sum of GTIs [s]
l2events	30639	Number of level 2 events



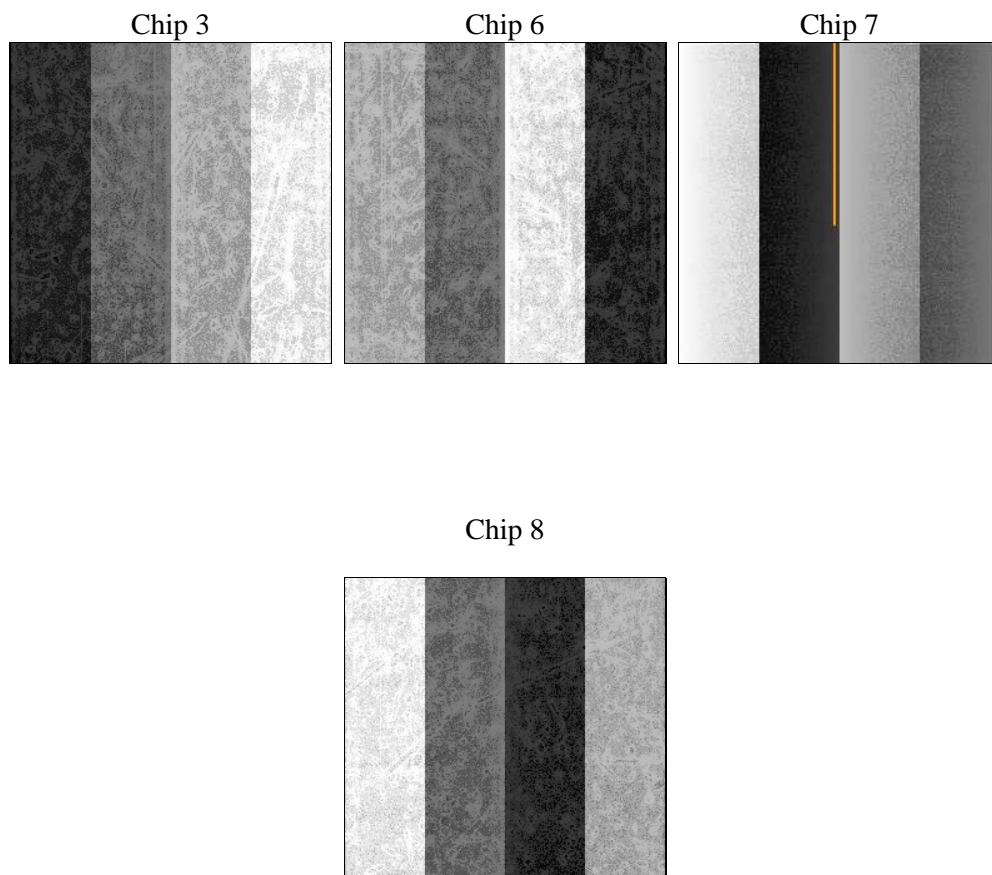
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	7076.8633780479	Sum of GTIs [s]
caldsver	4.6.4	 	ontime3	7076.7812980413	Sum of GTIs [s]
date	2014-12-04T06:31:56	Date and time of file creation	ontime6	7076.8223380446	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	7076.8633780479	Sum of GTIs [s]
			ontime8	7076.740258038	Sum of GTIs [s]
			l1events	156235	Number of level 1 events

2.1.4 Events

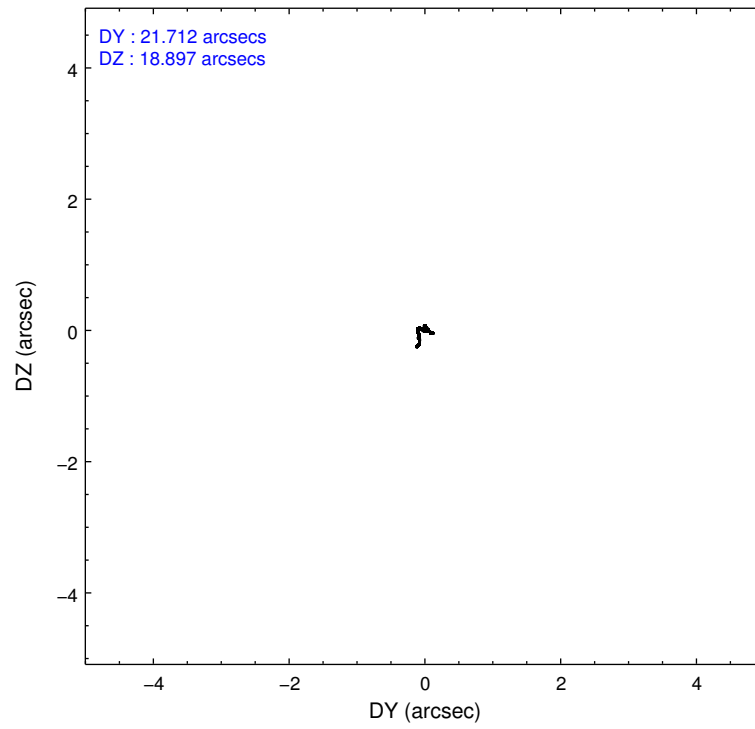
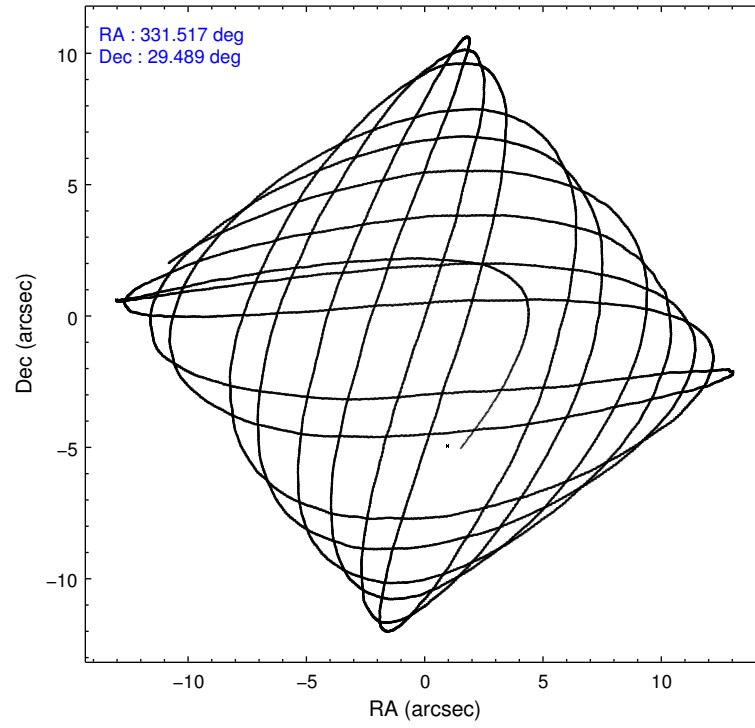
	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	30952	33524	45448	46311
rejected events	27348	29276	25449	32613
rejected %	88%	87%	55%	70%

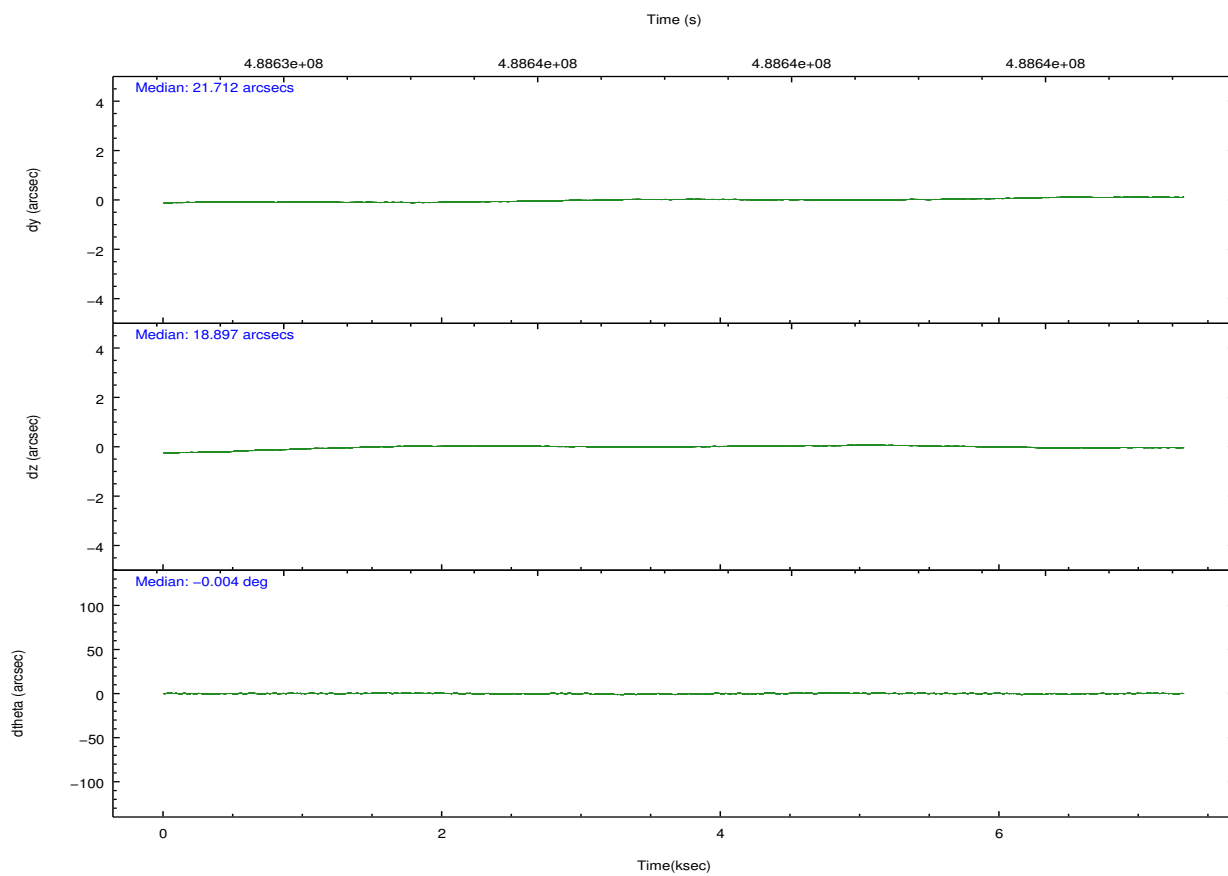
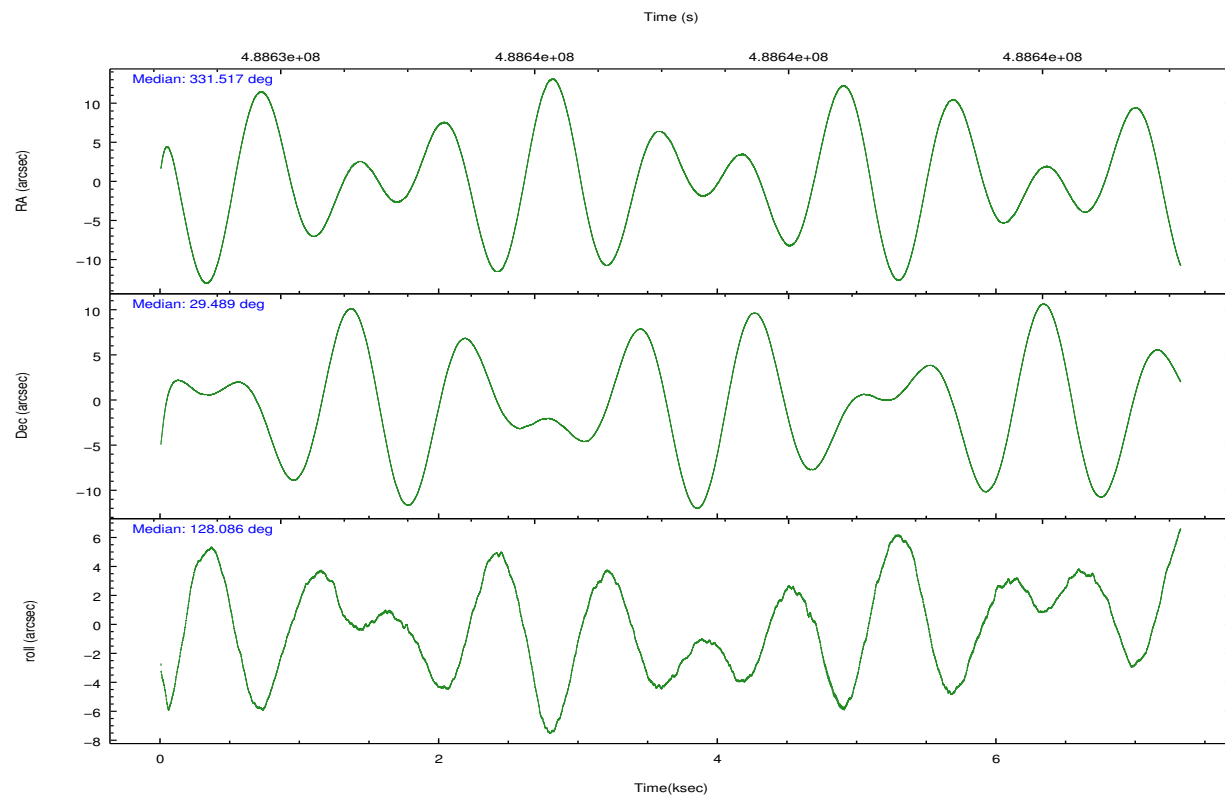
	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	1253	1532	1798	4259
	4%	4%	3%	9%
grade 1 events	24	16	62	43
	0%	0%	0%	0%
grade 2 events	752	971	4041	2880
	2%	2%	8%	6%
grade 3 events	384	415	1697	1655
	1%	1%	3%	3%
grade 4 events	391	398	1693	1597
	1%	1%	3%	3%
grade 5 events	1670	1786	4759	2463
	5%	5%	10%	5%
grade 6 events	826	935	10775	3312
	2%	2%	23%	7%
grade 7 events	25652	27471	20623	30102
	82%	81%	45%	64%

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	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	331.546249	331.5169267258484	CCD I2 on	N	N
[deg] Pointing Dec	29.478710	29.48859860648629	CCD I3 on	O1	Y
[deg] Pointing Roll	127.921772	128.0928383125361	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	O3	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	O2	Y
[s] Observation start time (MET)	488633734.184000	488632781.25386	CCD S5 on	N	N
Observation start date	2013-06-26T11:34:27	2013-06-26T11:19:41	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	488640734.184000	488641350.76682	On-chip summing requested	N	N
Observation end date	2013-06-26T13:31:07	2013-06-26T13:42:30	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



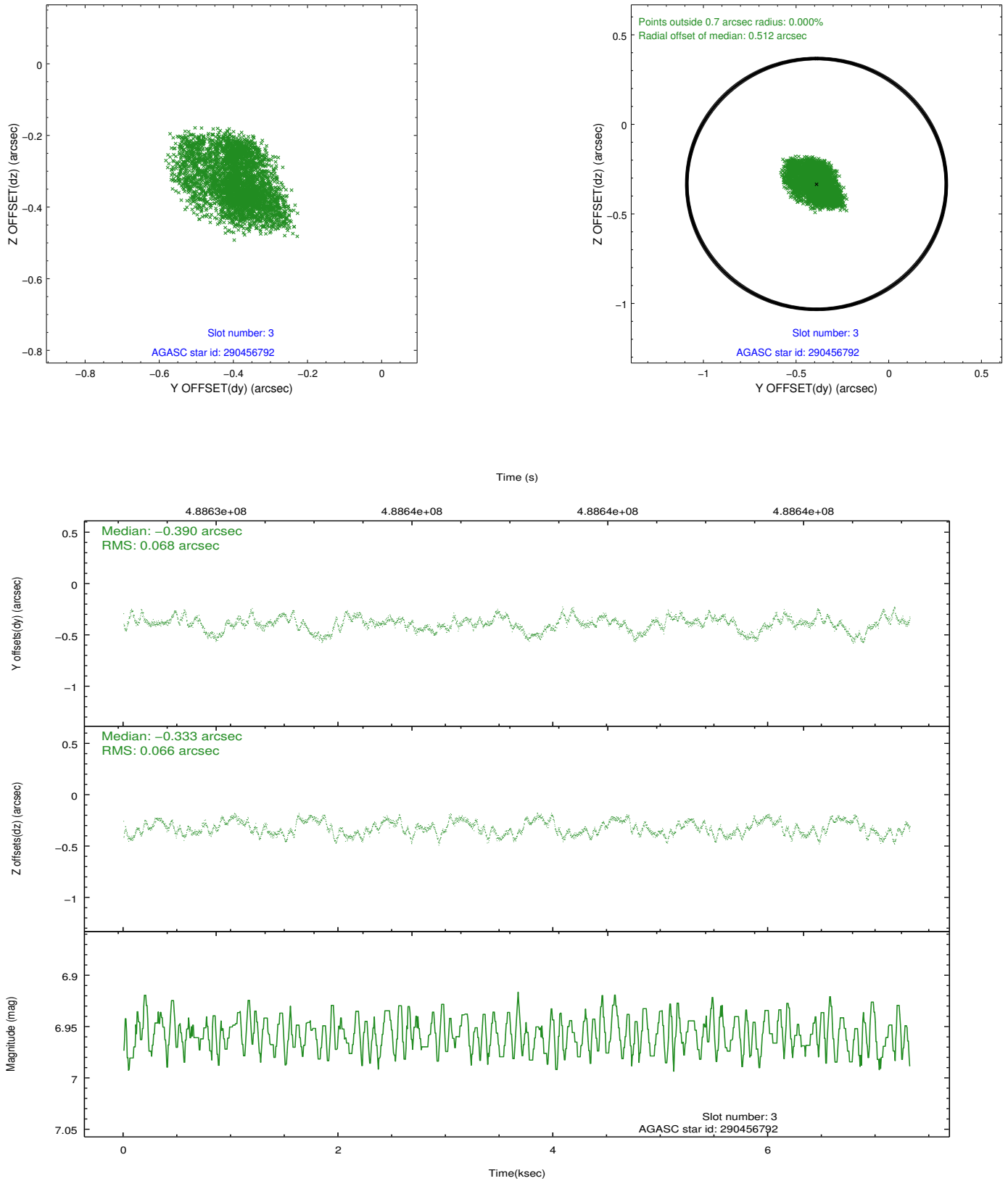


Slot Statistics

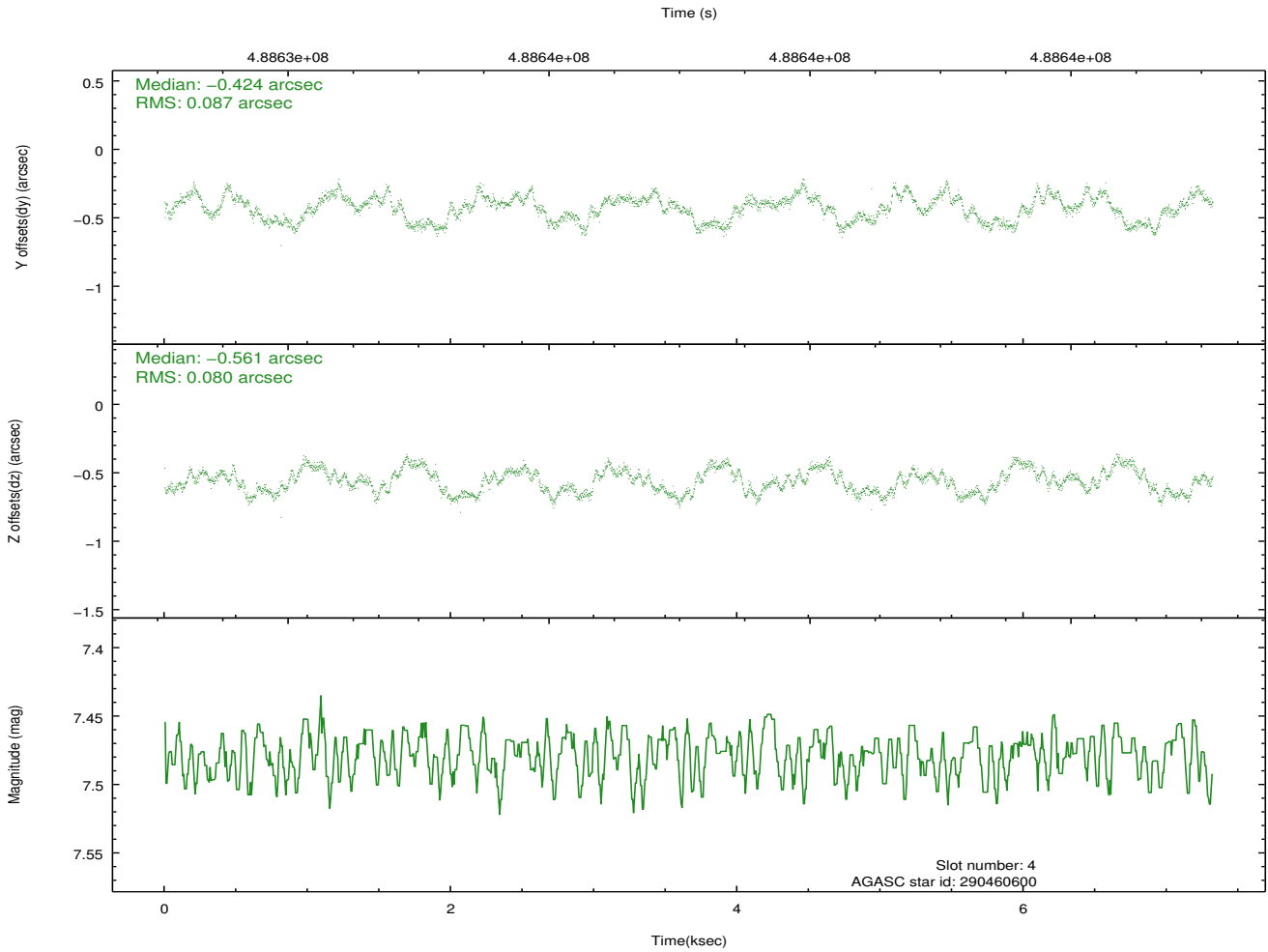
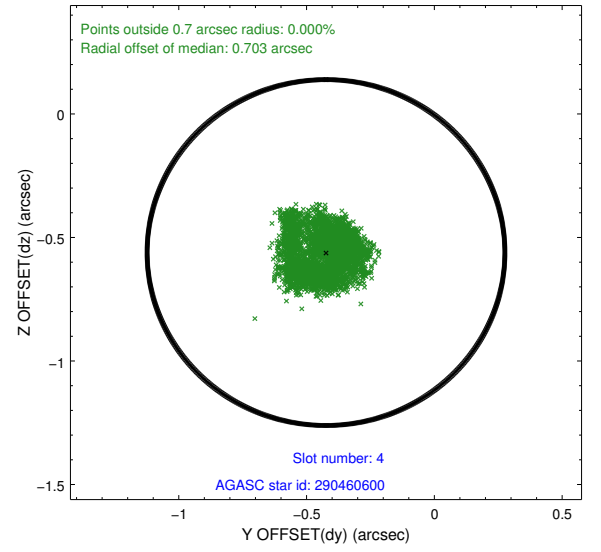
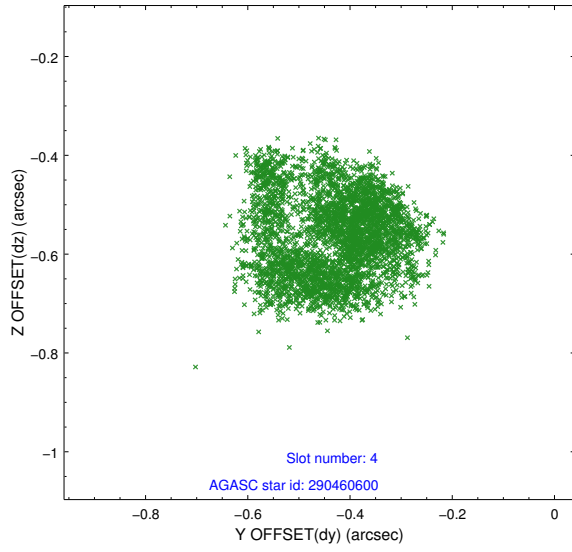
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.96	1786	-0.110	-0.049	0.007	0.011	0.000000	0.000000	-774.97	-1740.35
1	FID		ACIS-S-4	7.04	1786	0.250	0.066	0.006	0.012	0.000000	0.000000	2138.31	167.42
2	FID		ACIS-S-5	7.07	1786	-0.170	-0.009	0.008	0.013	0.000000	0.000000	-1826.87	161.92
3	GUIDE	used	290456792	6.96	3565	-0.390	-0.333	0.104	0.159	330.834496	29.749334	2140.67	1151.98
4	GUIDE	used	290460600	7.48	3572	-0.424	-0.561	0.131	0.189	330.729958	29.687868	2170.10	1545.72
5	GUIDE	used	290462904	8.48	3570	0.371	0.387	0.330	0.446	332.019529	29.683773	-324.09	-1622.34
6	GUIDE	used	290457136	8.96	3570	0.372	0.177	0.104	0.163	331.689425	29.079483	-1410.11	527.63
7	GUIDE	used	356532240	7.22	3570	0.041	0.313	0.102	0.170	331.780254	30.317800	1936.61	-2429.93

2.4 Star Slots

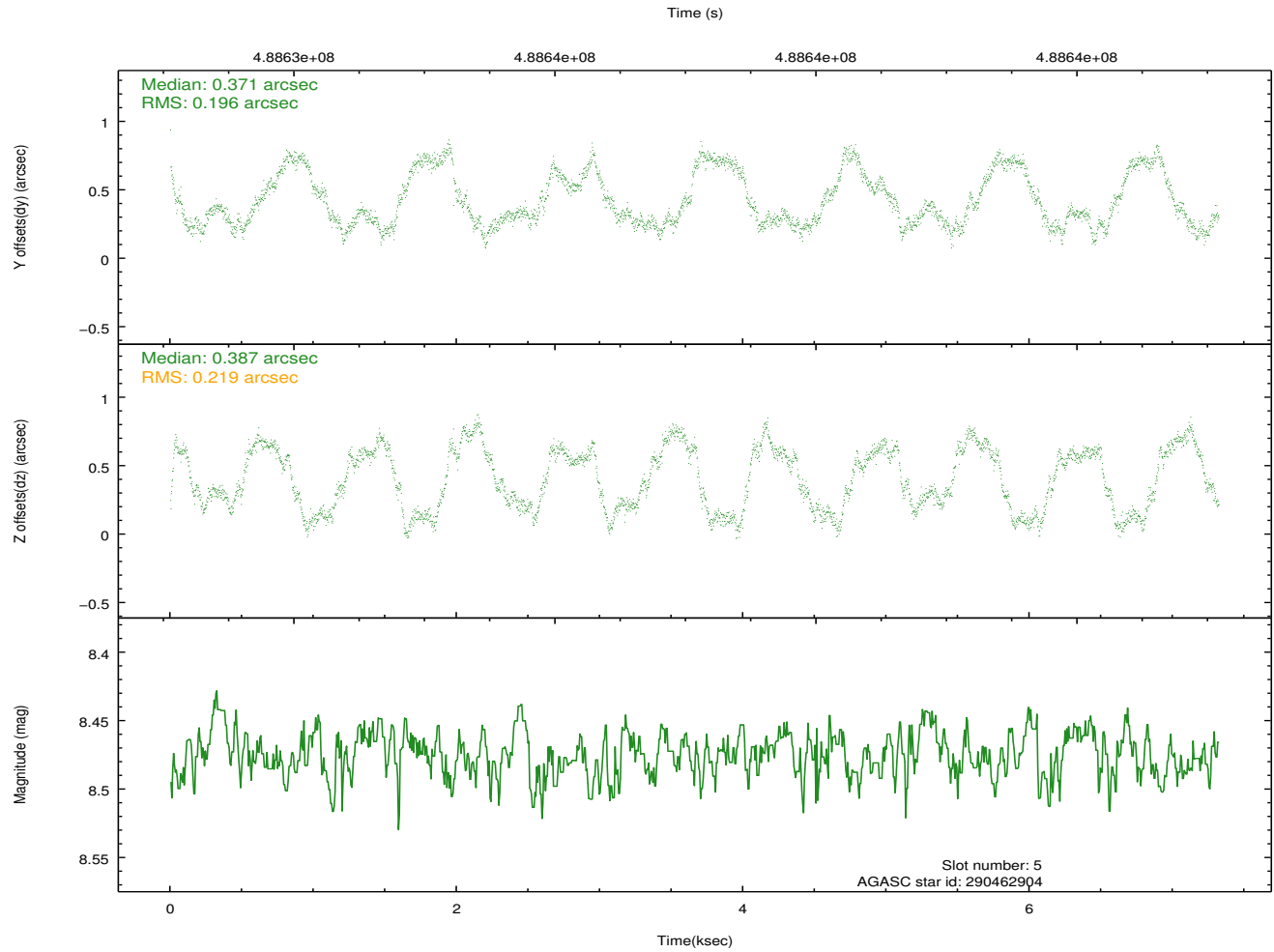
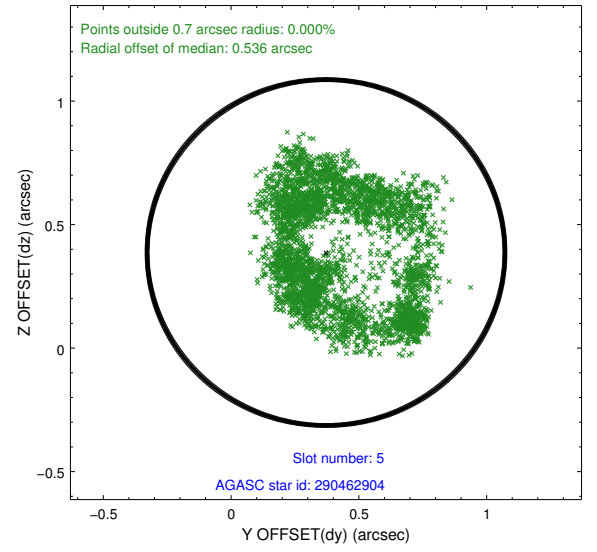
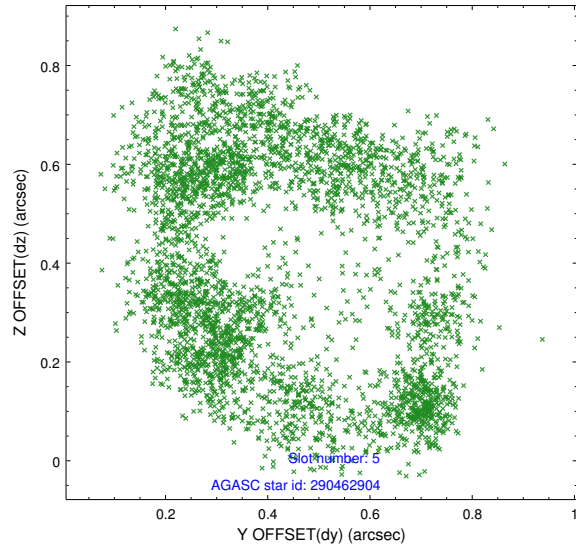
2.4.1 Slot 3



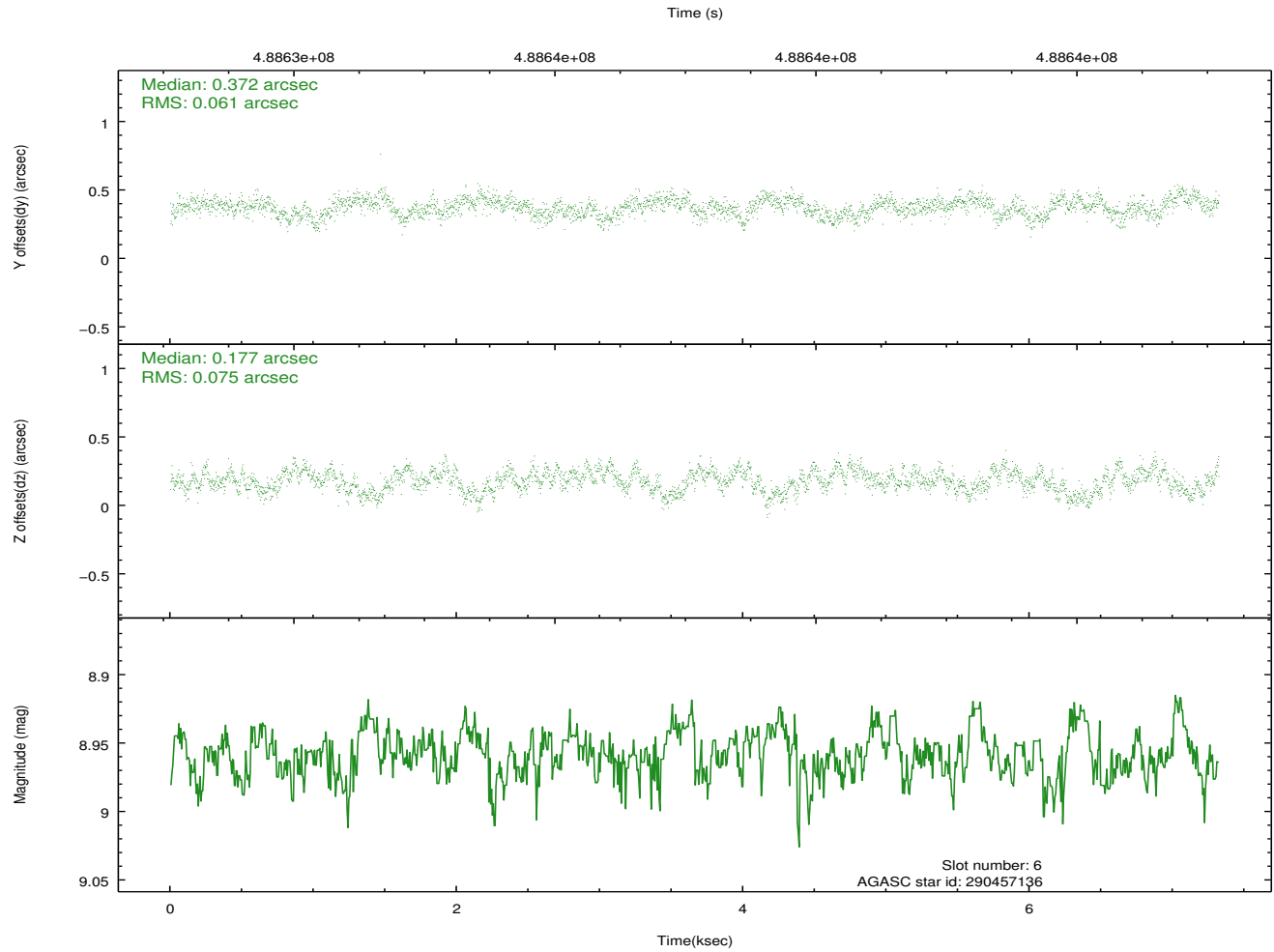
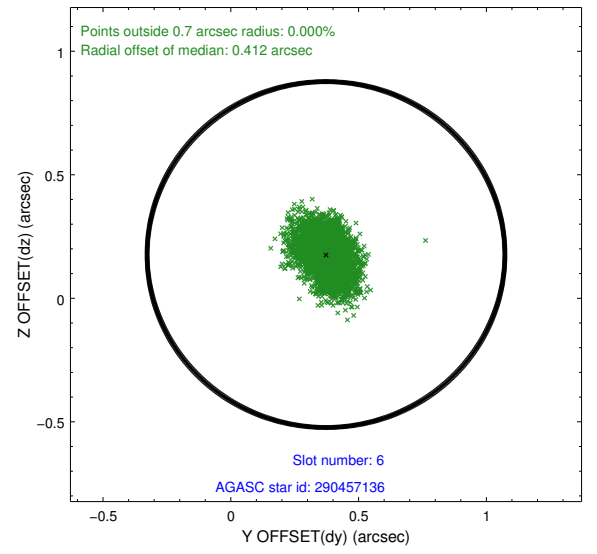
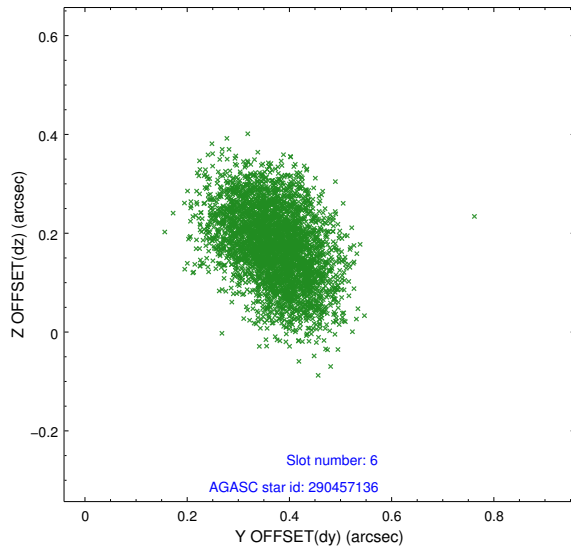
2.4.2 Slot 4



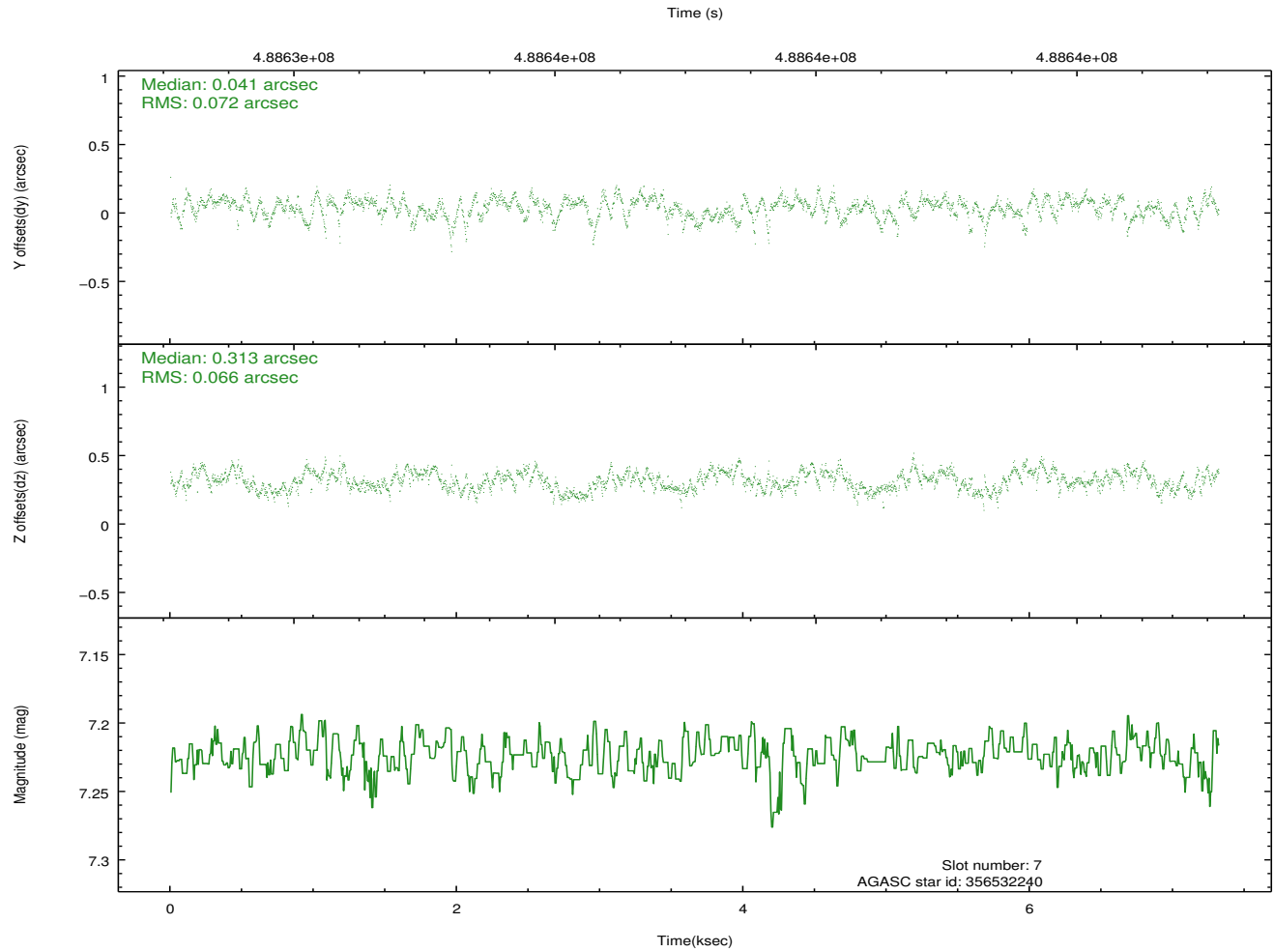
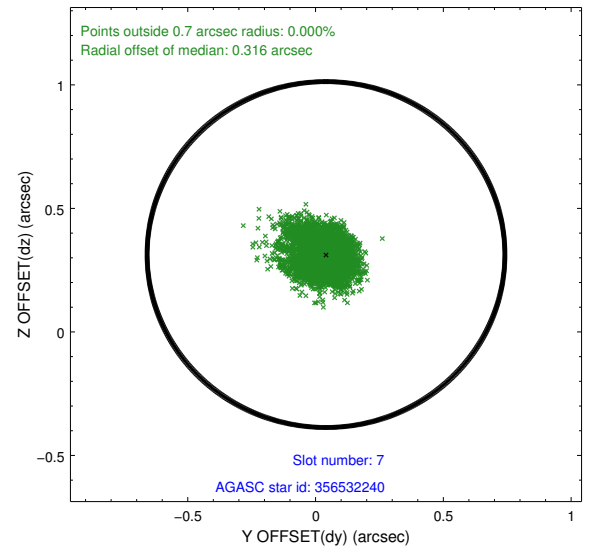
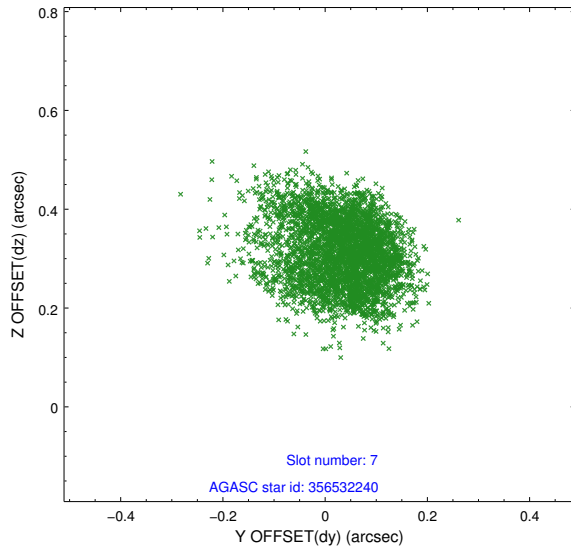
2.4.3 Slot 5



2.4.4 Slot 6

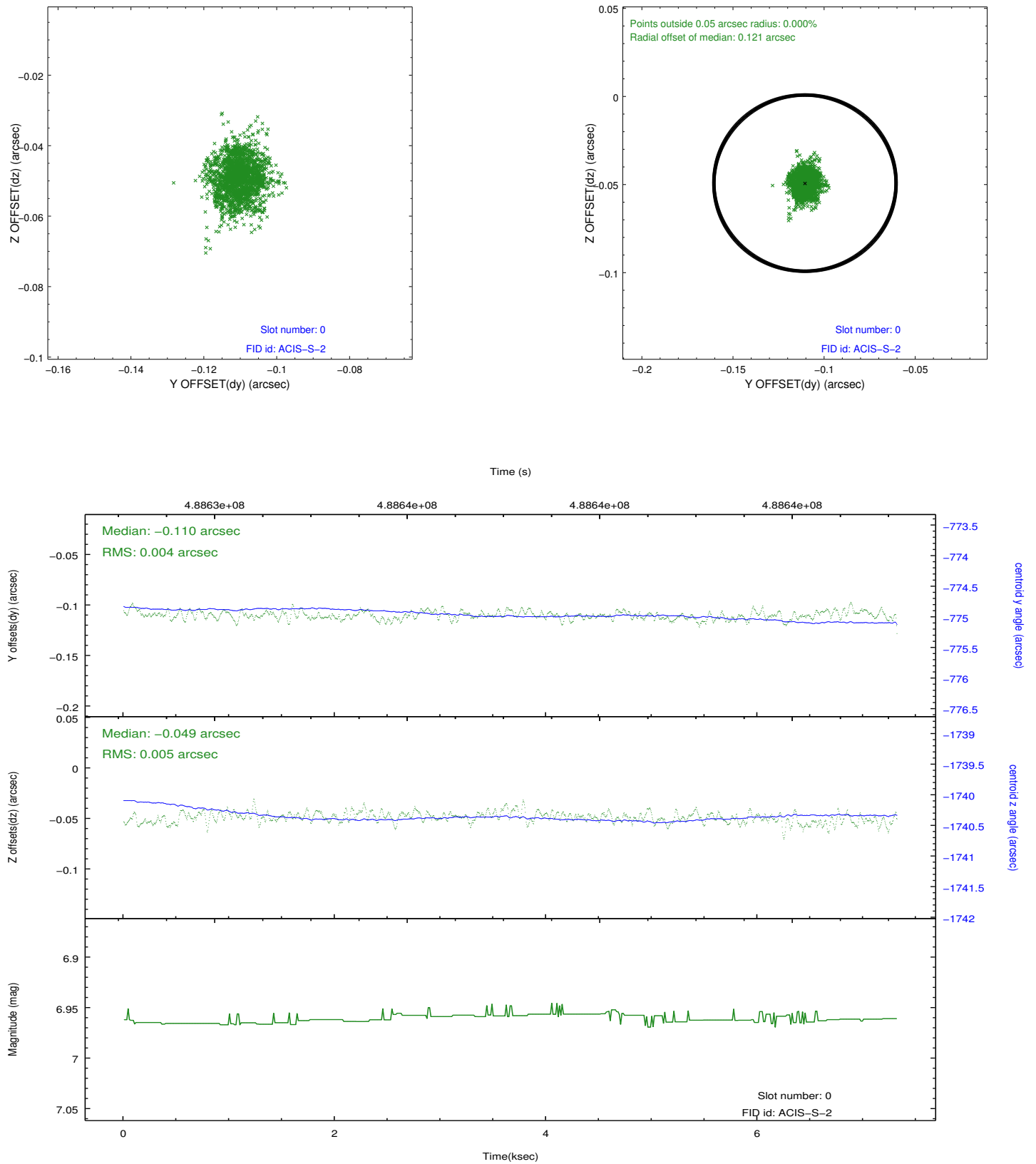


2.4.5 Slot 7

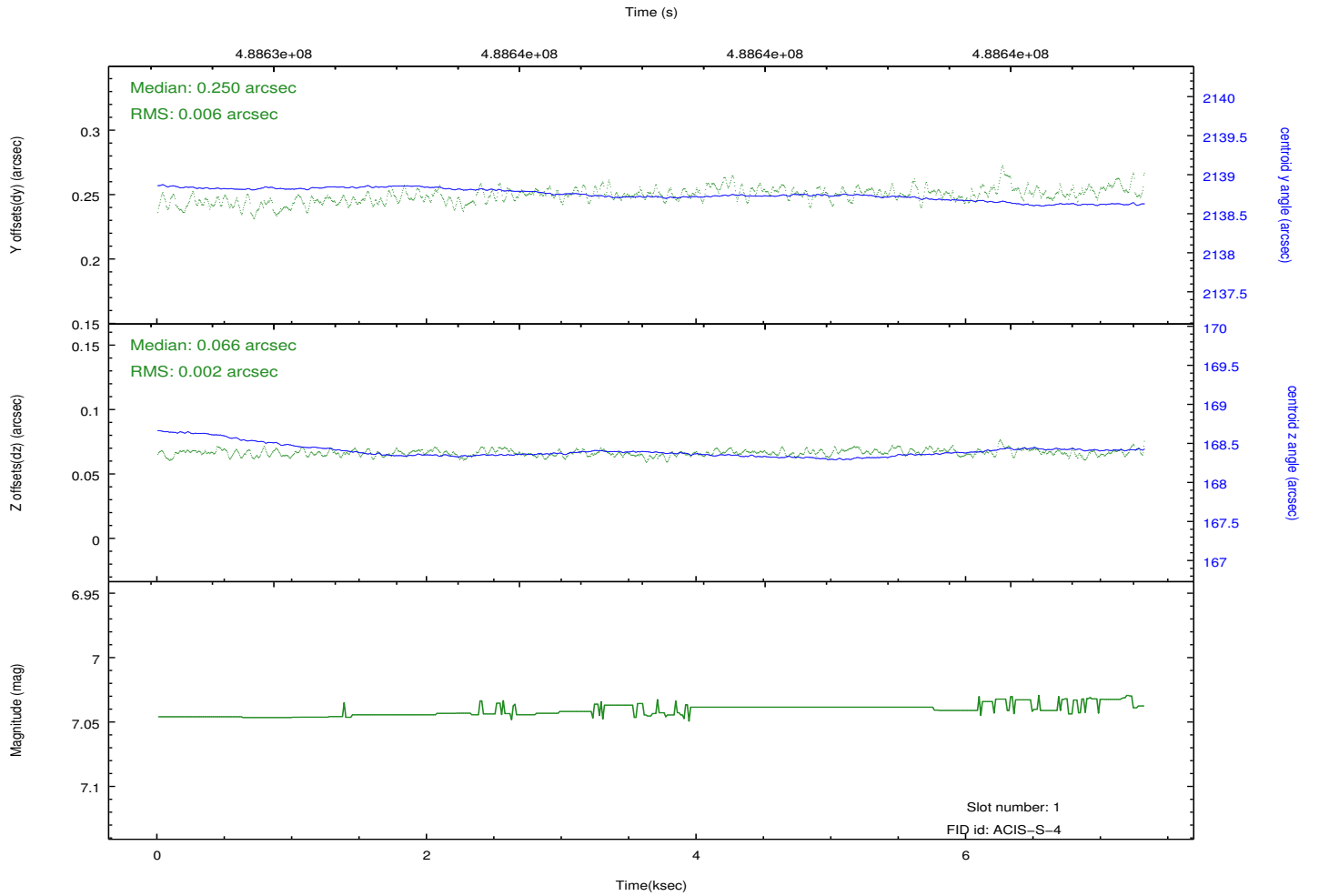
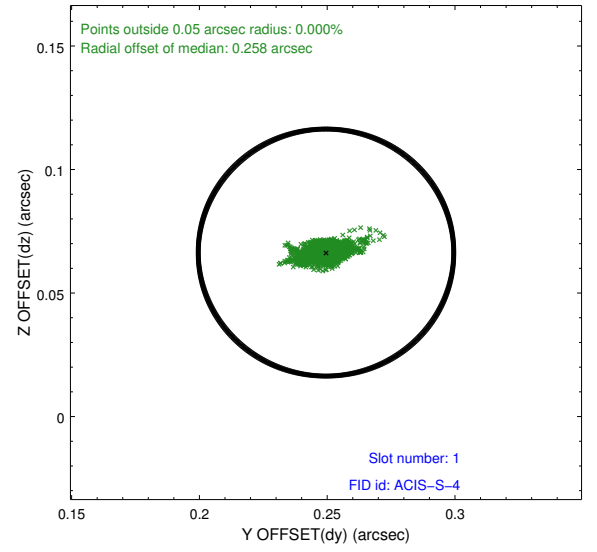
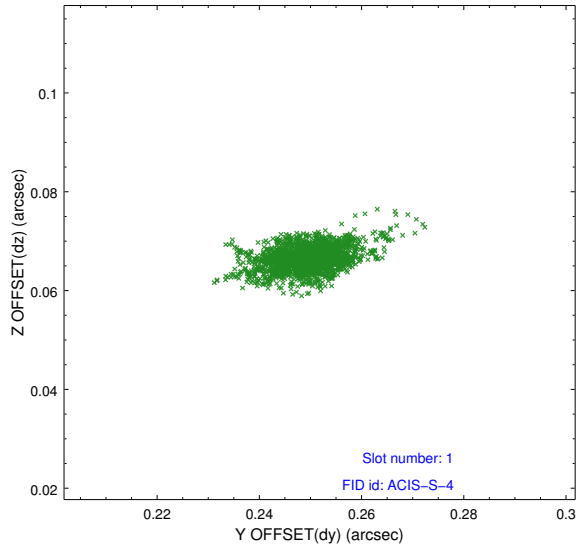


2.5 FID Slots

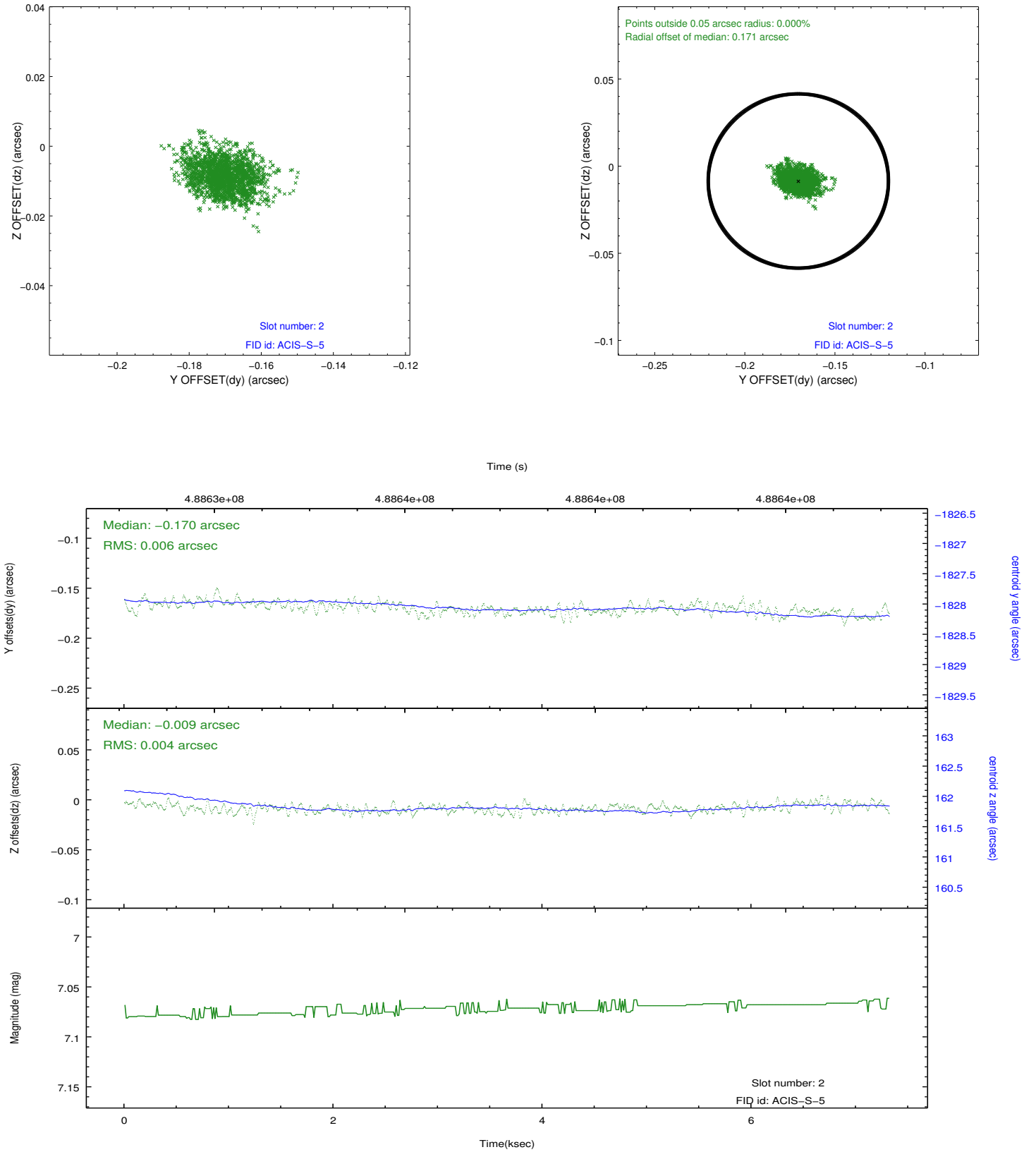
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2014.12.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.0768633780479

A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.