

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 5910 - L2 Version 4
Chandra X-Ray Center

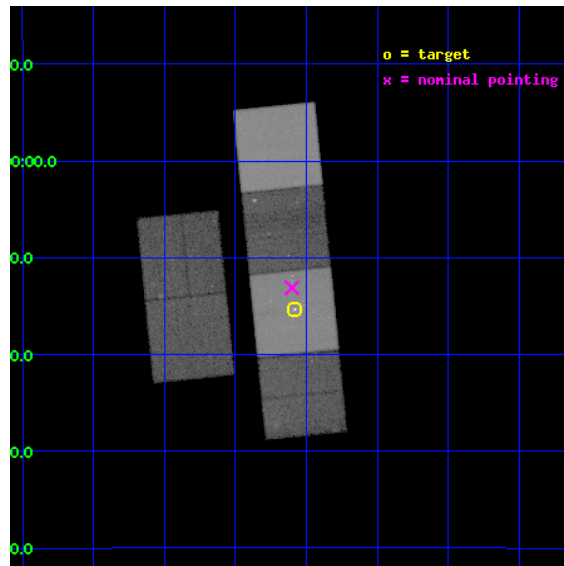
L2 Processing Date : Mar 7 2013

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1 Front

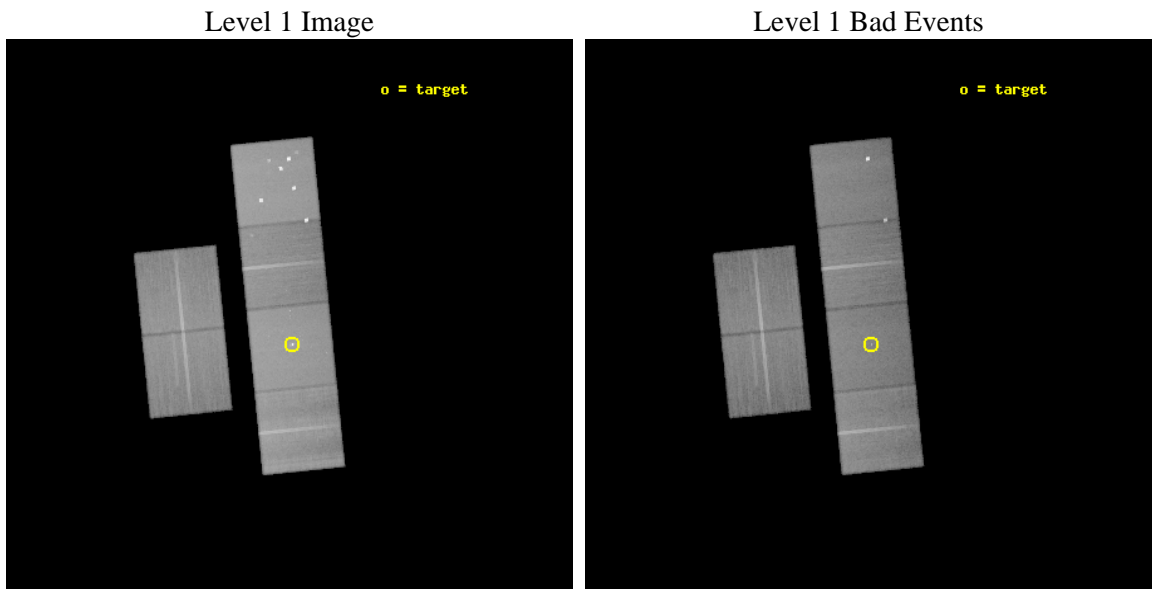
seq_num	600429	Sequence number
obs_id	5910	Observation id
title	The Multi-Talented Elliptical Galaxy NGC1052	Proposal title
observer	Professor JIMMY IRWIN	Principal investigator
object	NGC1052	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	40.27	Observer's specified target RA [deg]
dec_targ	-8.255639	Observer's specified target Dec [deg]
ra_nom	40.275539539172	Nominal RA [deg]
dec_nom	-8.21864314402	Nominal Dec [deg]
roll_nom	84.270502110084	Nominal Roll [deg]
revision	4	Processing version of data
ontime	59958.358796328	Sum of GTIs [s]
livetime	59199.12995466	Livetime [s]
ontime2	59958.358786345	Sum of GTIs [s]
ontime3	59951.817942351	Sum of GTIs [s]
ontime5	59958.35877642	Sum of GTIs [s]
ontime6	59958.341002822	Sum of GTIs [s]
ontime7	59958.358796328	Sum of GTIs [s]
ontime8	59951.776922256	Sum of GTIs [s]
l2events	676910	Number of level 2 events



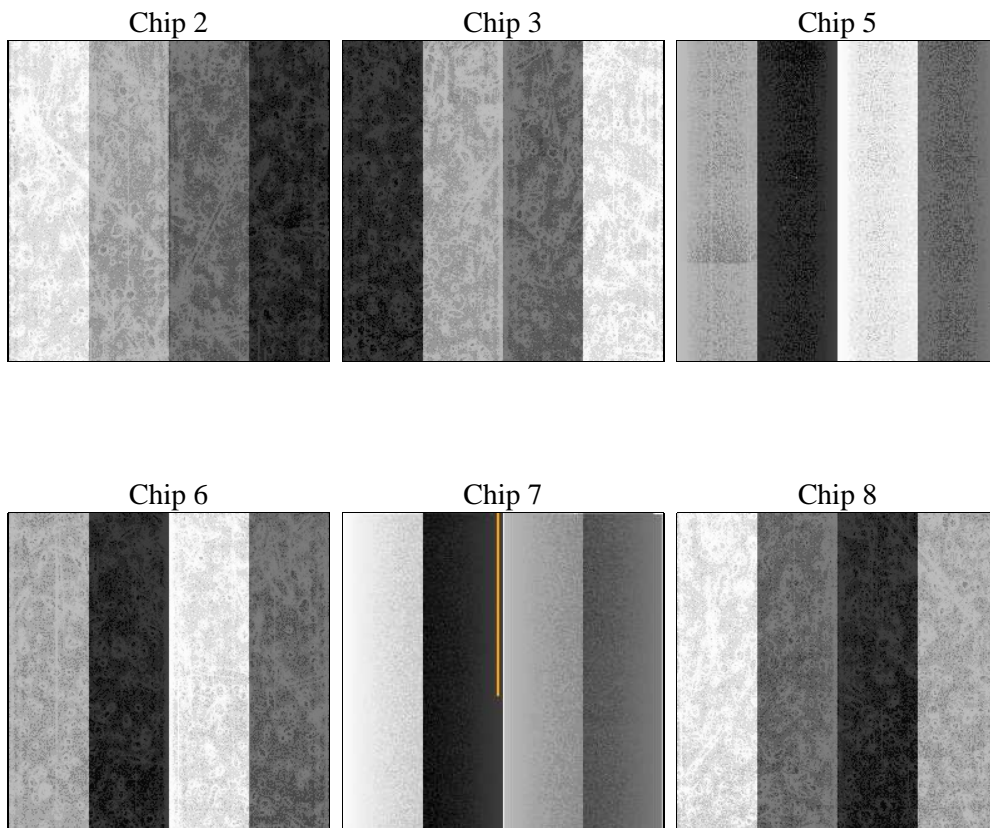
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	60000.000000	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	59958.358796328	Sum of GTIs [s]
caldsver	4.5.6	 	ontime2	59958.358786345	Sum of GTIs [s]
date	2013-03-07T19:18:33	Date and time of file creation	ontime3	59951.817942351	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	59958.35877642	Sum of GTIs [s]
			ontime6	59958.341002822	Sum of GTIs [s]
			ontime7	59958.358796328	Sum of GTIs [s]
			ontime8	59951.776922256	Sum of GTIs [s]
			l1events	2884668	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	388576	370156	678041	389125	554495	504275	grade 0 events	22126	21257	71685	20430	25222	39909
rejected events	338989	322368	338802	338707	310477	378936		5%	5%	10%	5%	4%	7%
rejected %	87%	87%	49%	87%	55%	75%	grade 1 events	252	208	1260	214	590	380
								0%	0%	0%	0%	0%	0%
							grade 2 events	10383	9216	89415	10566	49826	26174
								2%	2%	13%	2%	8%	5%
							grade 3 events	4386	4410	12000	4683	21820	14570
								1%	1%	1%	1%	3%	2%
							grade 4 events	4419	4490	11287	4445	21621	13219
								1%	1%	1%	1%	3%	2%
							grade 5 events	15540	17271	46197	18118	50857	23902
								3%	4%	6%	4%	9%	4%
							grade 6 events	8275	8415	154873	10300	125540	31471
								2%	2%	22%	2%	22%	6%
							grade 7 events	323195	304889	291324	320369	259019	354650
								83%	82%	42%	82%	46%	70%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	40.287199	40.27553953917237	Subarray requested	NONE	NONE
[deg] Pointing Dec	-8.243325	-8.218643144020019	Alternating exposures requested	N	N
[deg] Pointing Roll	84.115540	84.27050211008425	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	243425512.184000	243424333.71146			
Observation start date	2005-09-18T10:10:48	2005-09-18T09:52:13			
[s] Observation end time (MET)	243485512.184000	243486075.1018			
Observation end date	2005-09-19T02:50:48	2005-09-19T03:01:15			
Read mode	TIMED	TIMED			

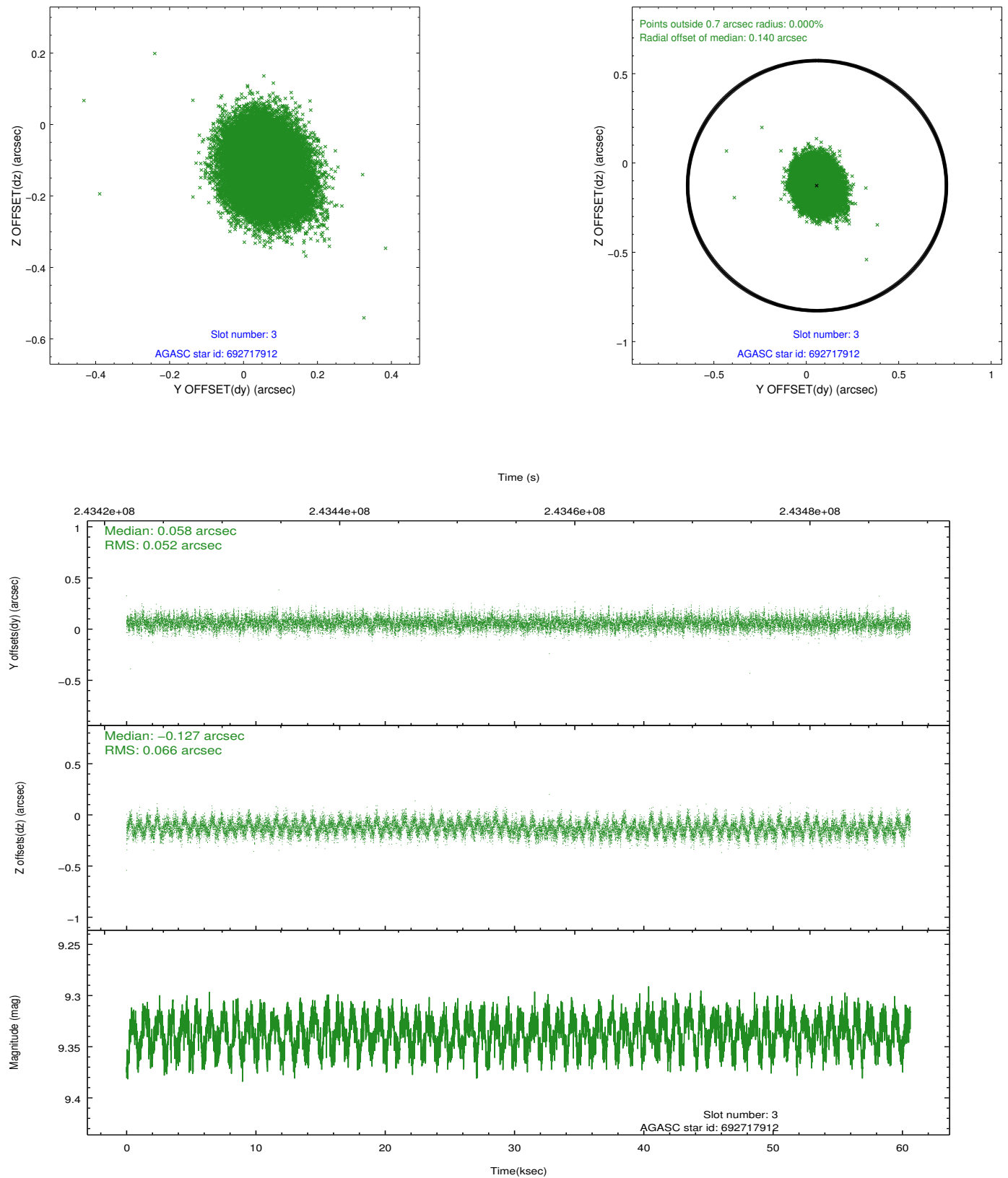
2.3 Aspect

Slot Statistics

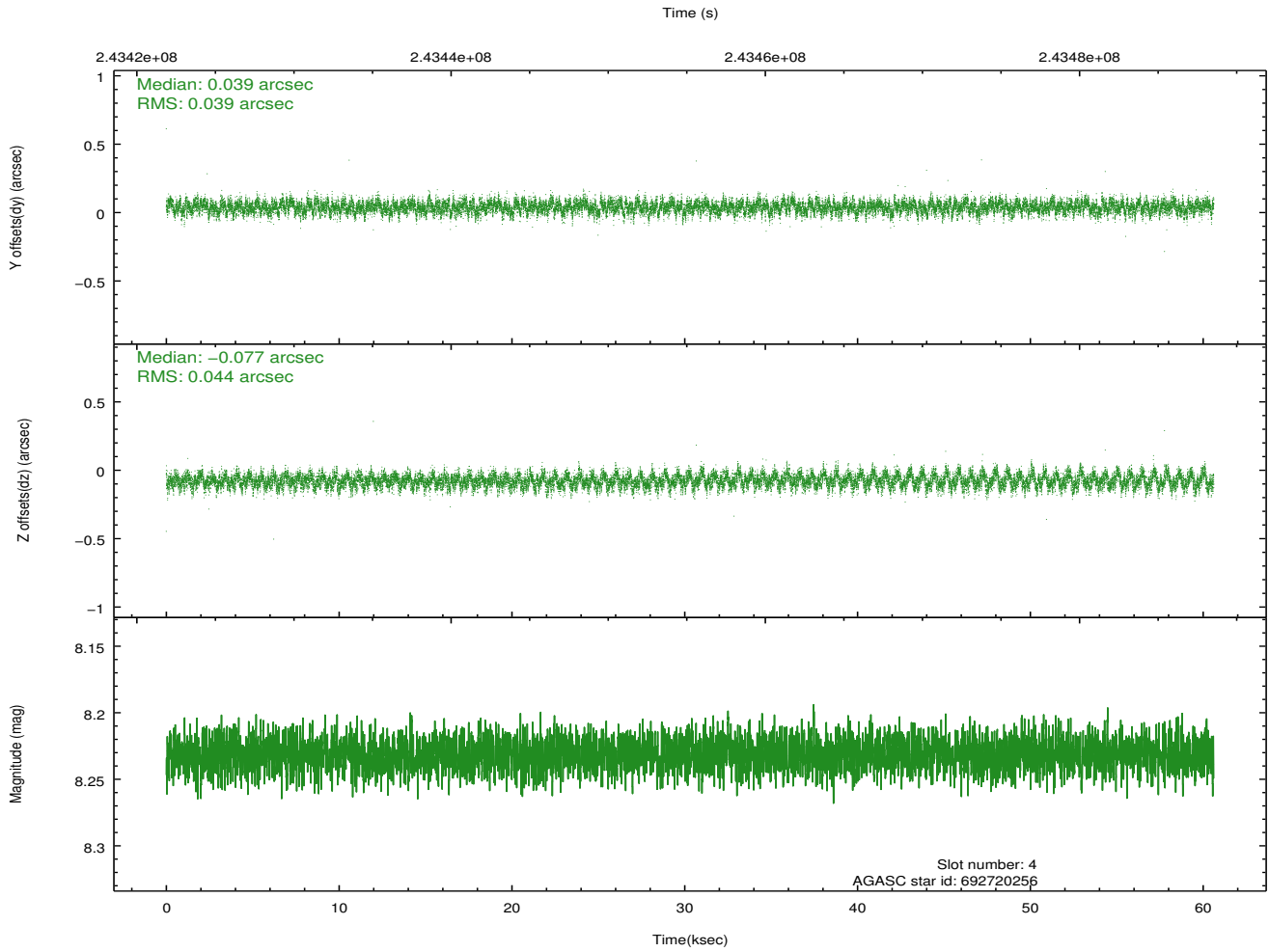
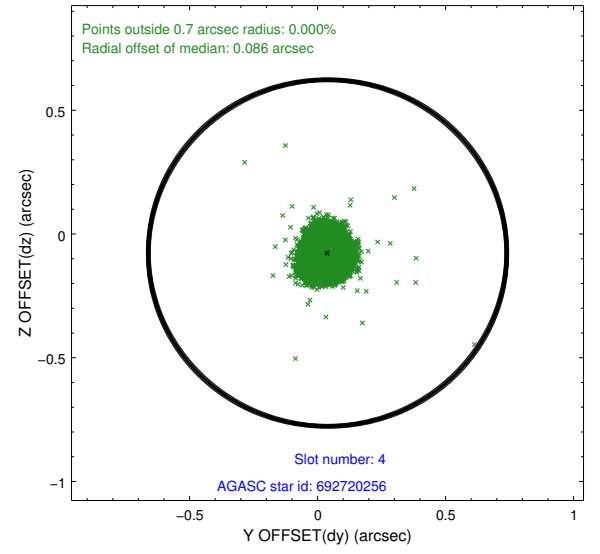
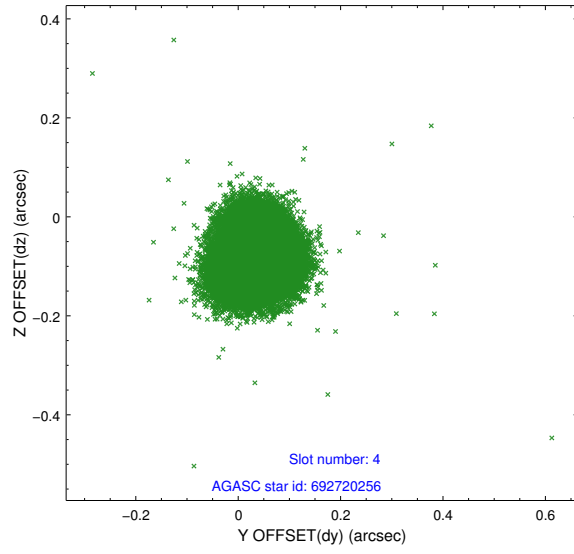
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	14783	-0.053	-0.025	0.012	0.018	0.000000	0.000000	-760.13	-1731.49
1	FID	ACIS-S-4	7.21	14783	0.108	0.032	0.011	0.018	0.000000	0.000000	2153.28	177.17
2	FID	ACIS-S-5	7.24	14783	-0.085	0.003	0.012	0.021	0.000000	0.000000	-1813.11	170.67
3	GUIDE	692717912	9.34	29554	0.058	-0.127	0.090	0.146	39.833965	-8.248709	-185.62	1603.99
4	GUIDE	692720256	8.23	29562	0.039	-0.077	0.062	0.100	40.539277	-8.375926	-382.57	-942.00
5	GUIDE	692721992	9.35	29551	0.052	0.142	0.077	0.124	40.336547	-8.667081	-1499.19	-330.96
6	GUIDE	692721328	8.47	29543	0.016	-0.136	0.062	0.103	39.989942	-8.868254	-2346.65	820.90
7	GUIDE	692855064	6.39	29568	-0.163	0.198	0.068	0.109	40.981517	-7.912488	1436.45	-2340.36

2.4 Star Slots

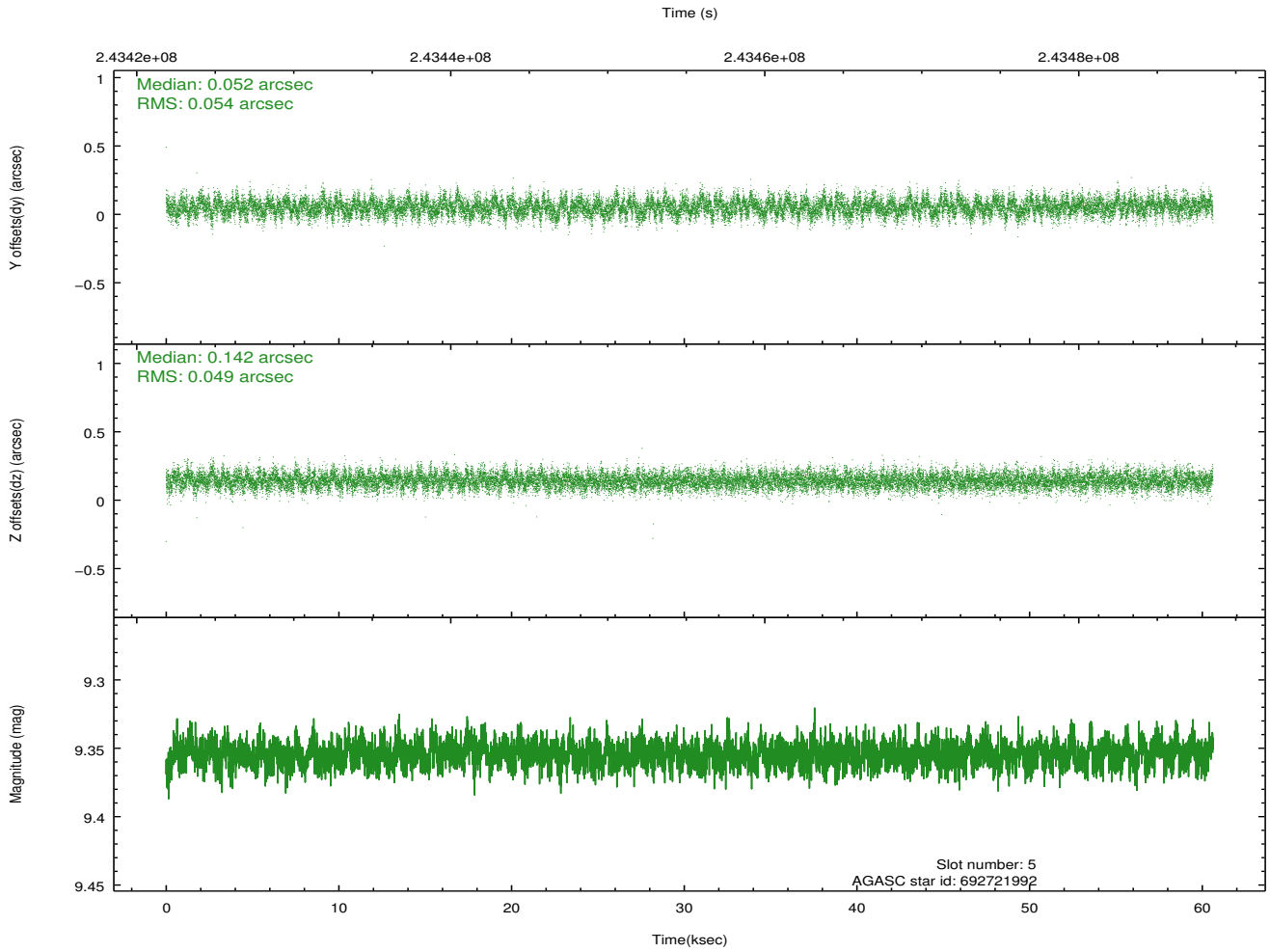
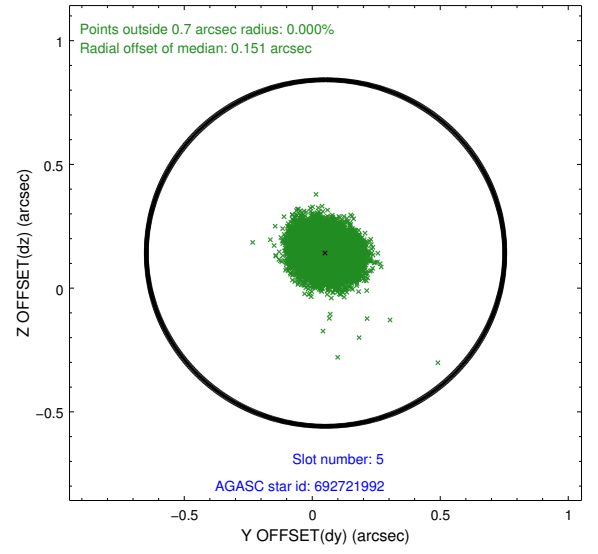
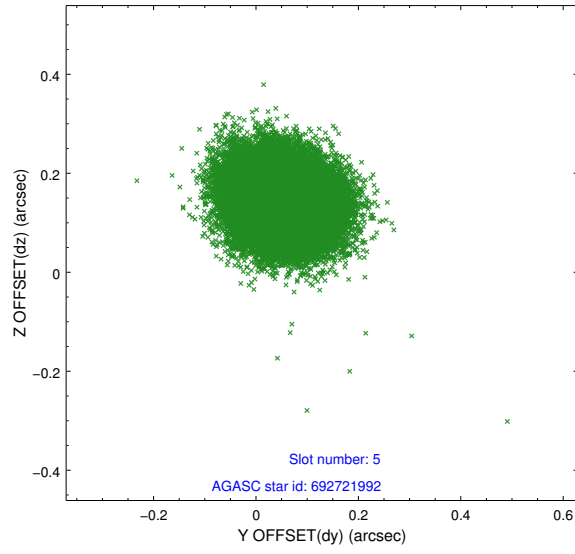
2.4.1 Slot 3



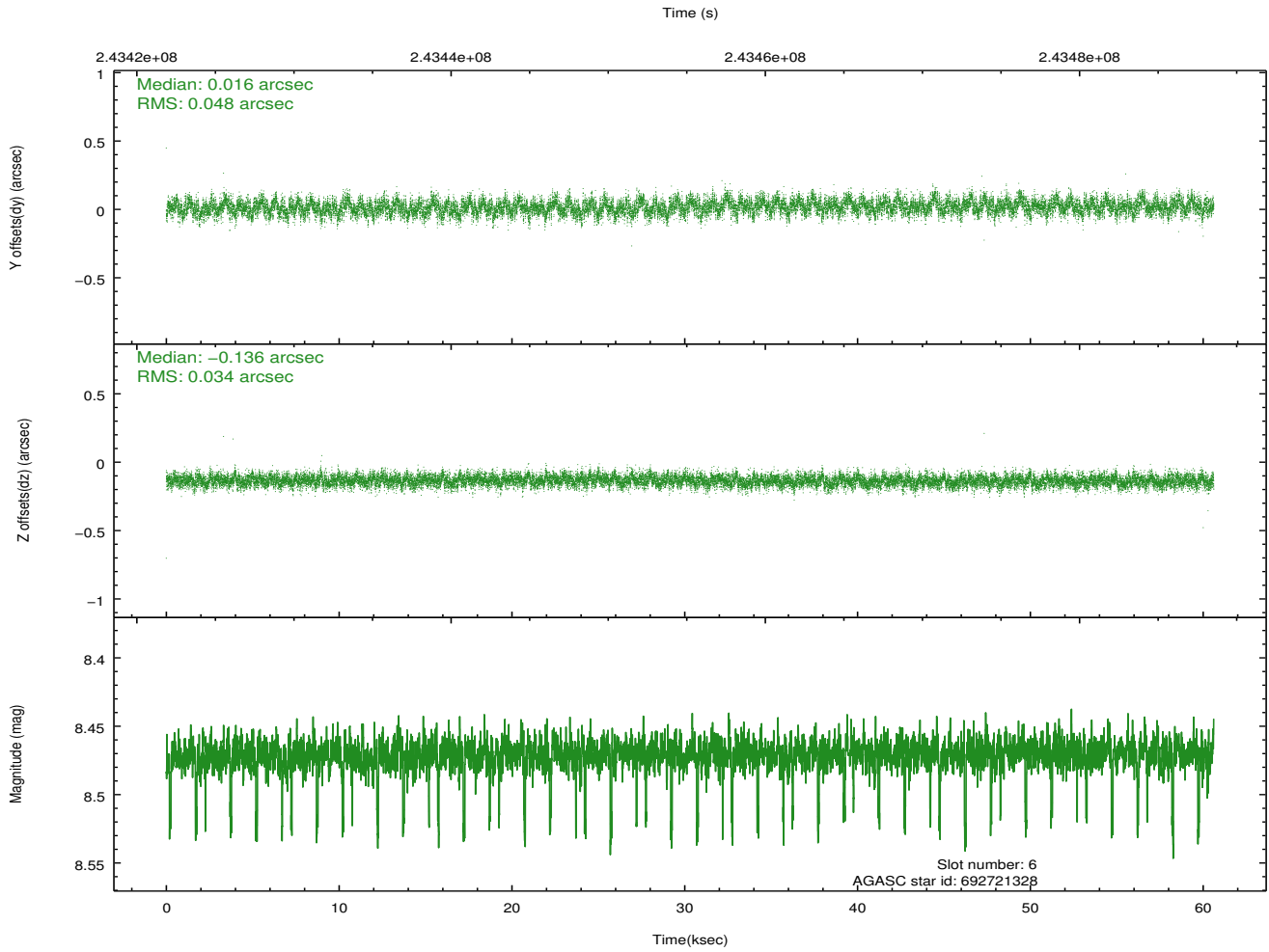
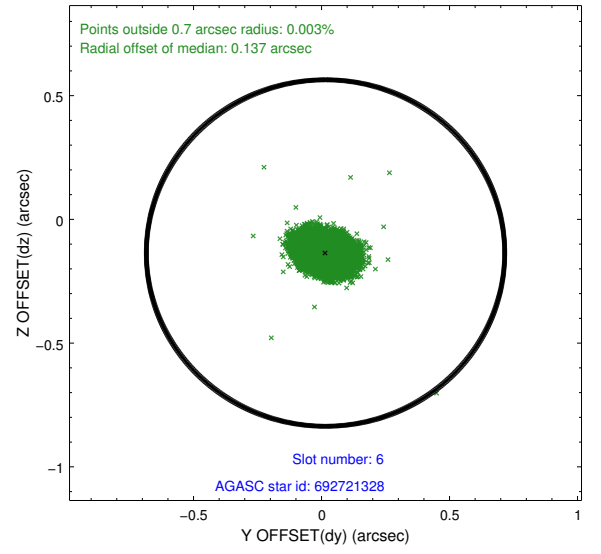
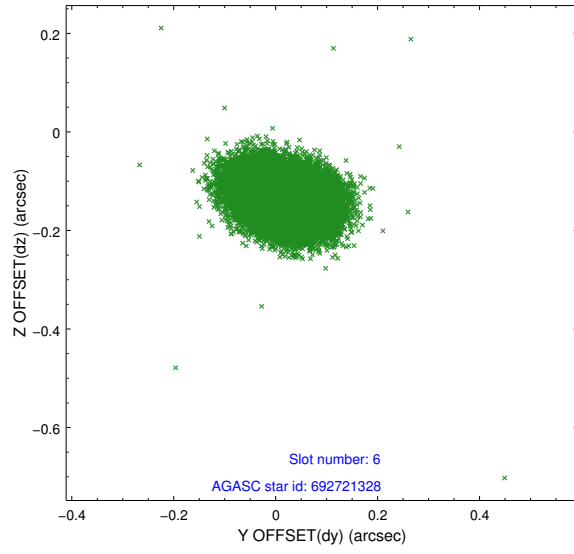
2.4.2 Slot 4



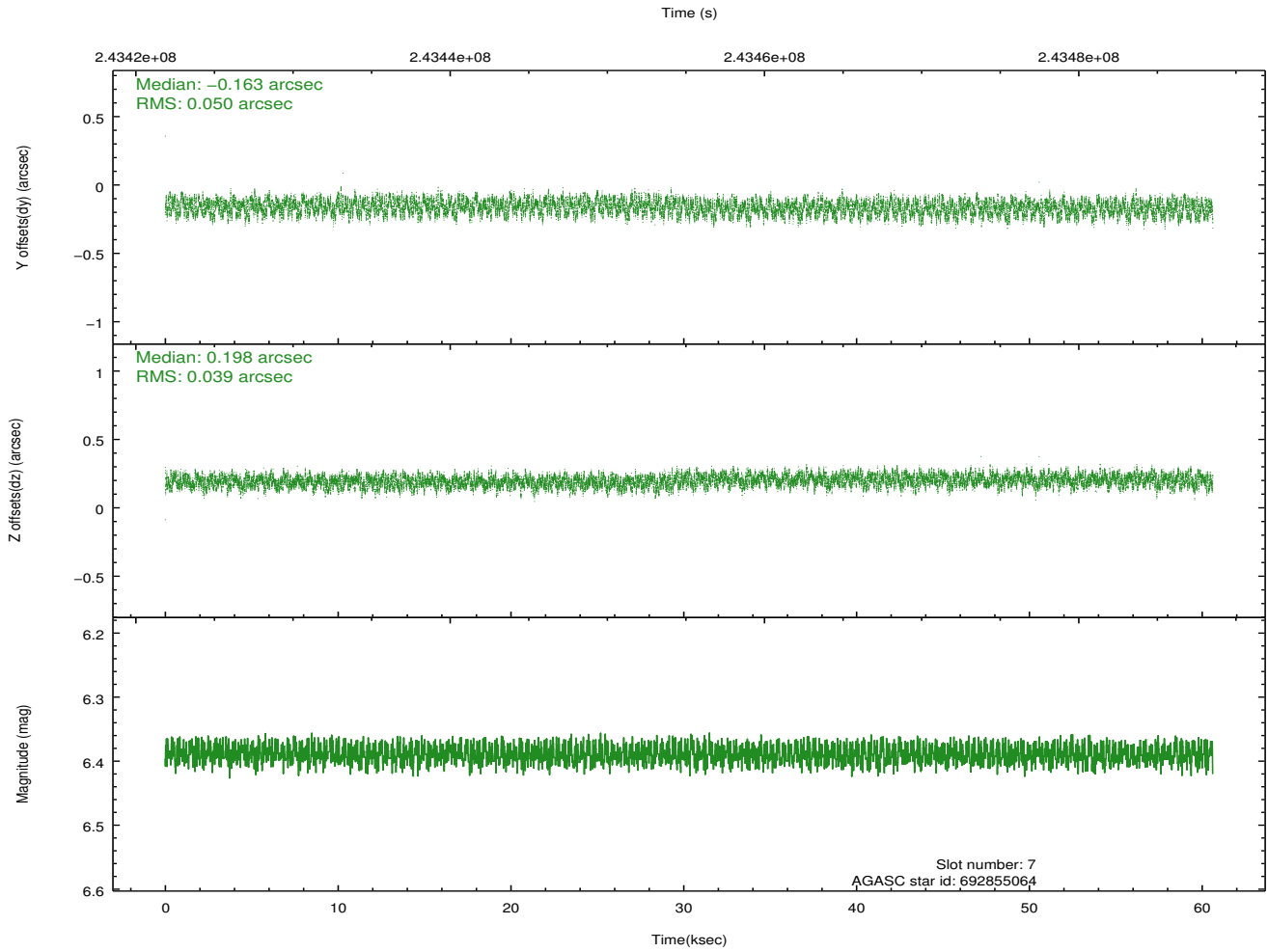
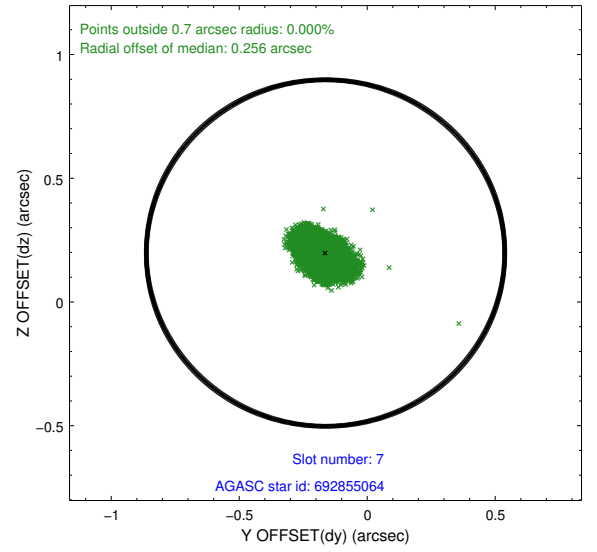
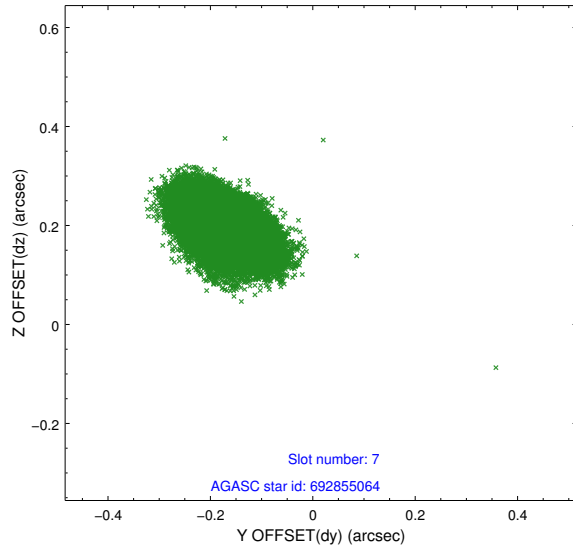
2.4.3 Slot 5



2.4.4 Slot 6

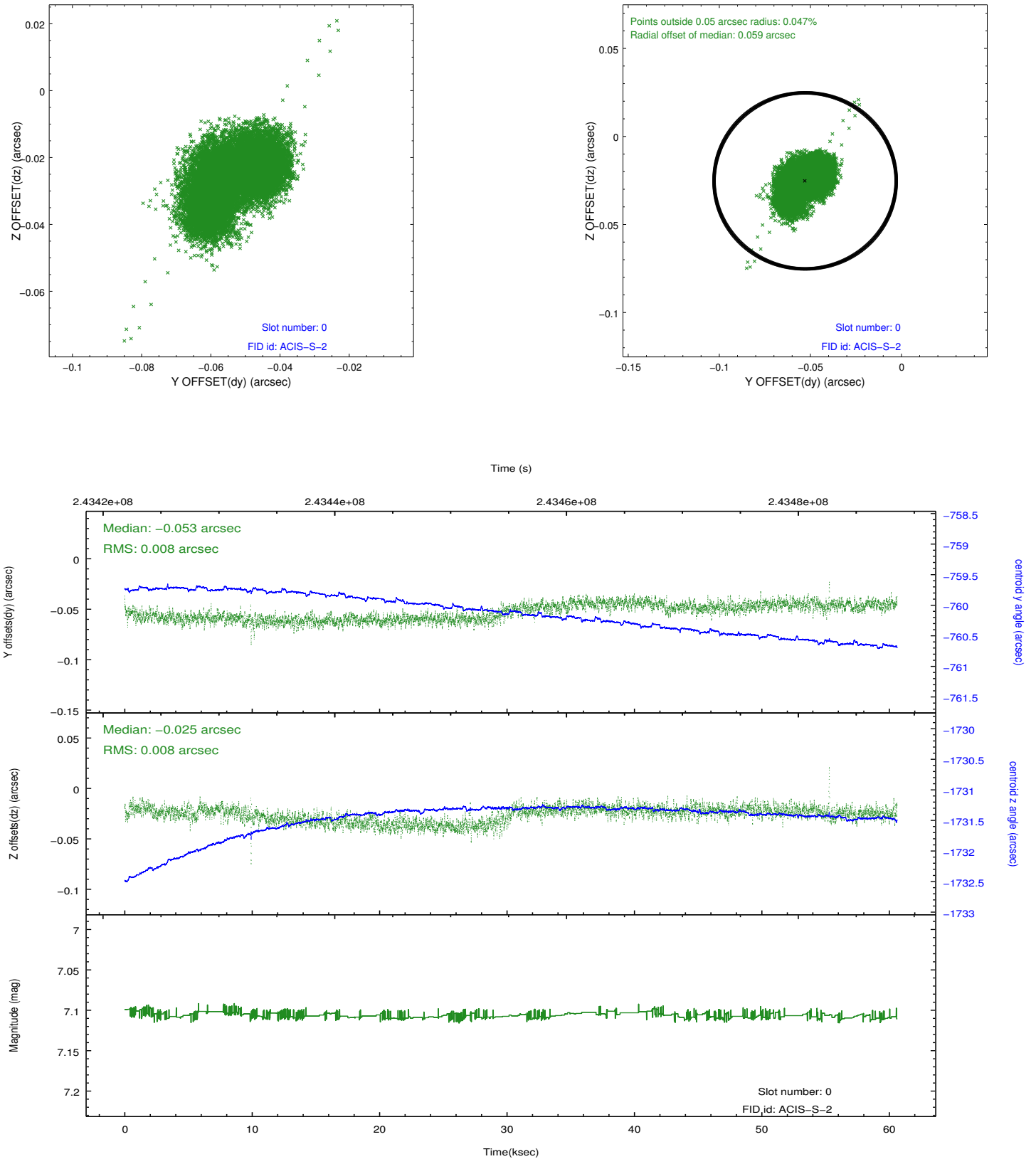


2.4.5 Slot 7

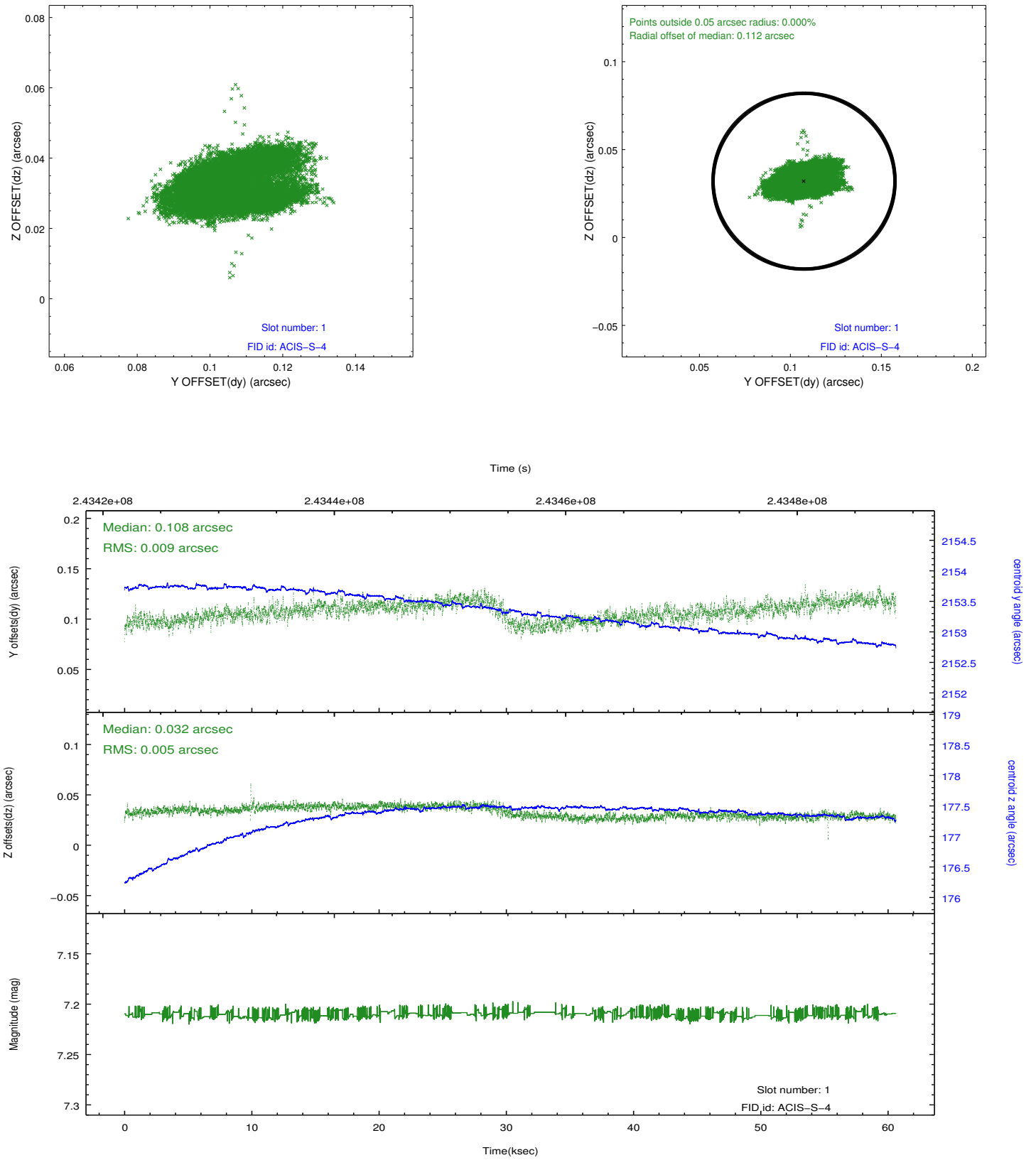


2.5 FID Slots

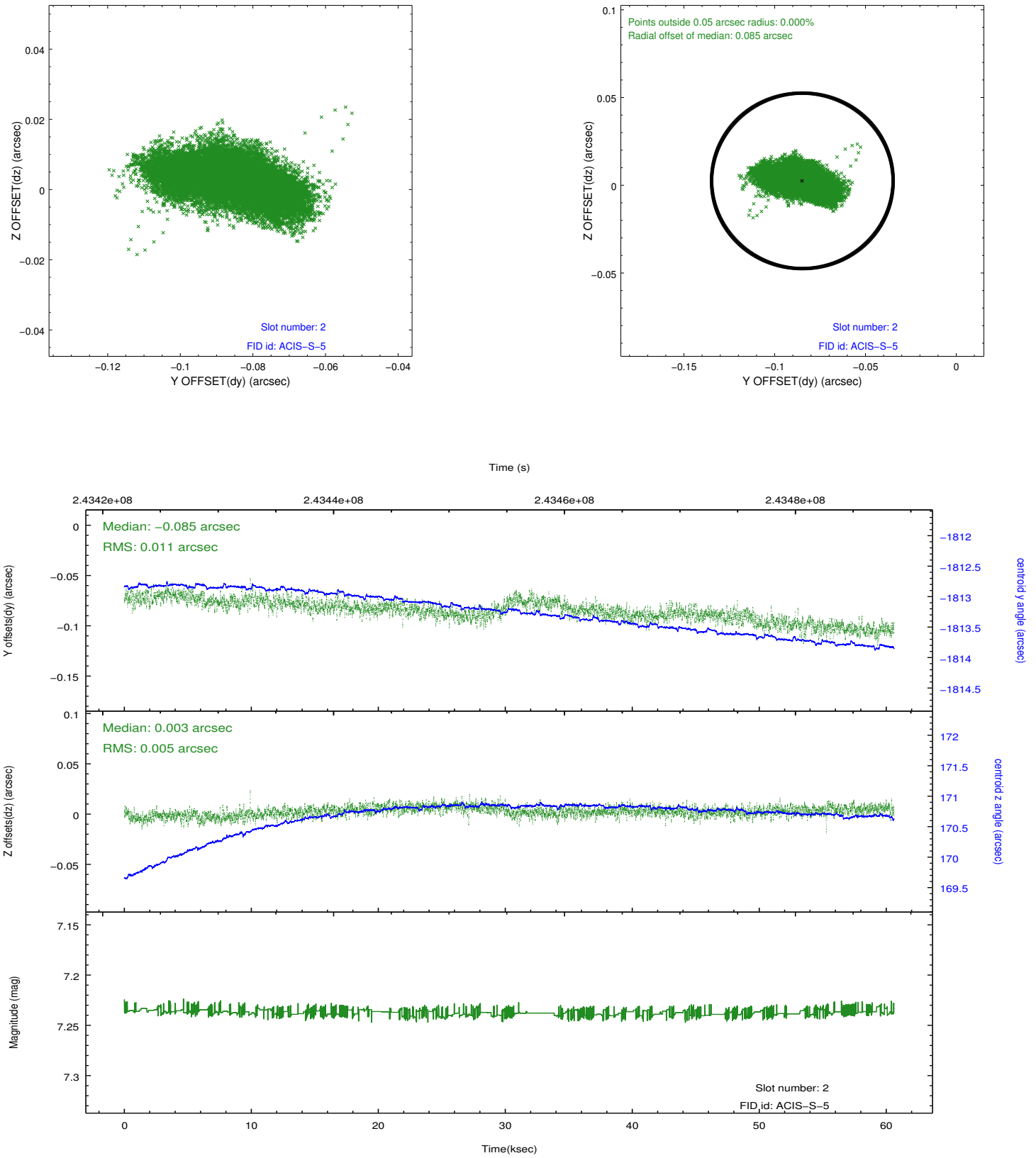
2.5.1 Slot 0



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)	2013.03.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	59.95835

A.2 Comments

As a consequence of the DEA-A shutdown anomaly on Sep 15th (DOY258), the reported value of the ACIS FP temperature was ~1.3 degrees warmer than the actual temperature. The value for FP temperature reported in the headers of the Level 2 event file and the Mission Timeline files are incorrect by this amount for this processing. However, the temperature is corrected in the processing in order to obtain the correct temperature for the CTI correction. So the calibrated data are correct. If using the FP temp values in the headers of data files (some CIAO tools require this information), investigators should subtract 1.3 degrees from the reported temperature to determine the true temperature.