

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 11548 - L2 Version 2
Chandra X-Ray Center

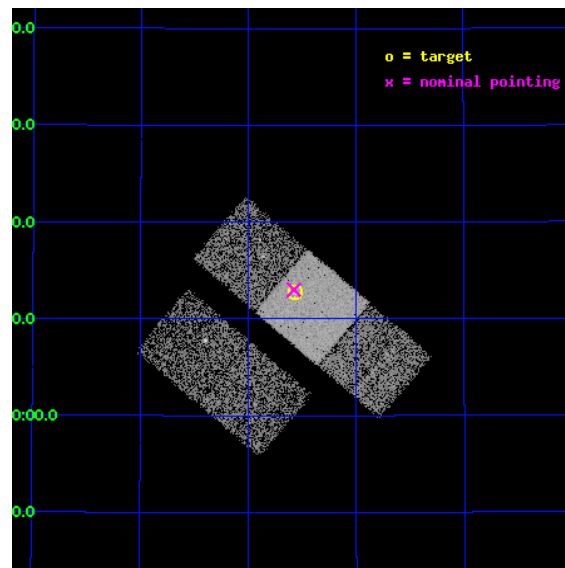
L2 Processing Date : Jul 3 2012

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1 Front

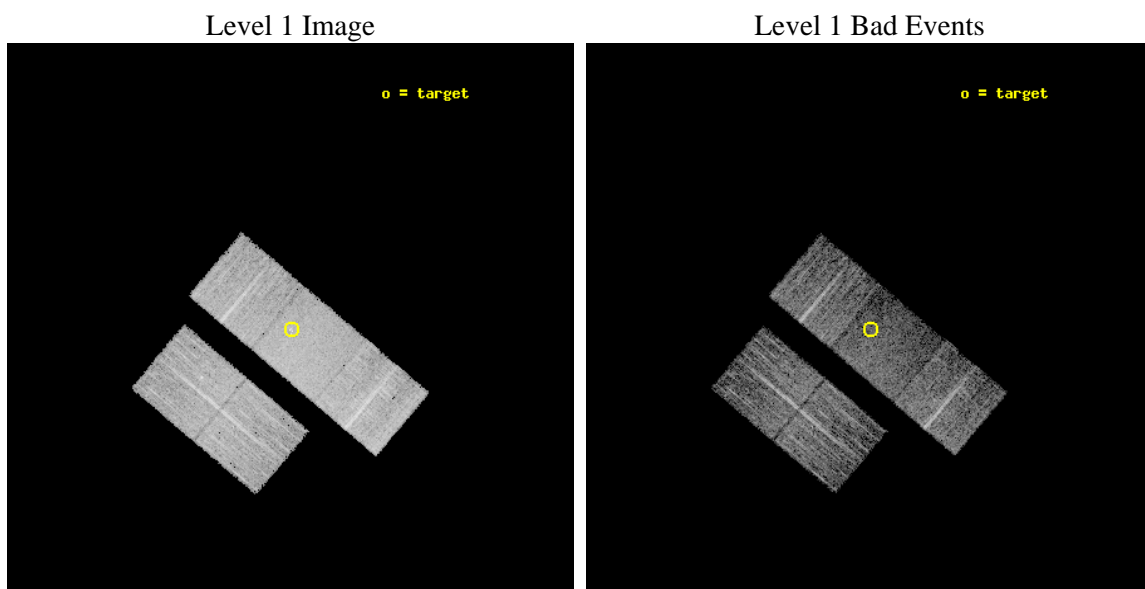
seq_num	702134	Sequence number
obs_id	11548	Observation id
title	The Size of Quasar Non-Thermal/X-ray Emission Regions	Proposal tit
observer	Prof. Christopher Kochanek	Principal investigator
object	SDSS1004+4112	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	151.1425	Observer's specified target RA [deg]
dec_targ	41.212222	Observer's specified target Dec [deg]
ra_nom	151.14445666578	Nominal RA [deg]
dec_nom	41.216791823496	Nominal Dec [deg]
roll_nom	40.261517826777	Nominal Roll [deg]
revision	2	Processing version of data
ontime	6041.9000464678	Sum of GTIs [s]
livetime	5962.9581743786	Livetime [s]
ontime2	6041.9000464678	Sum of GTIs [s]
ontime3	6041.9000464678	Sum of GTIs [s]
ontime6	6041.9000464678	Sum of GTIs [s]
ontime7	6041.9000464678	Sum of GTIs [s]
ontime8	6038.7590860724	Sum of GTIs [s]
l2events	41383	Number of level 2 events



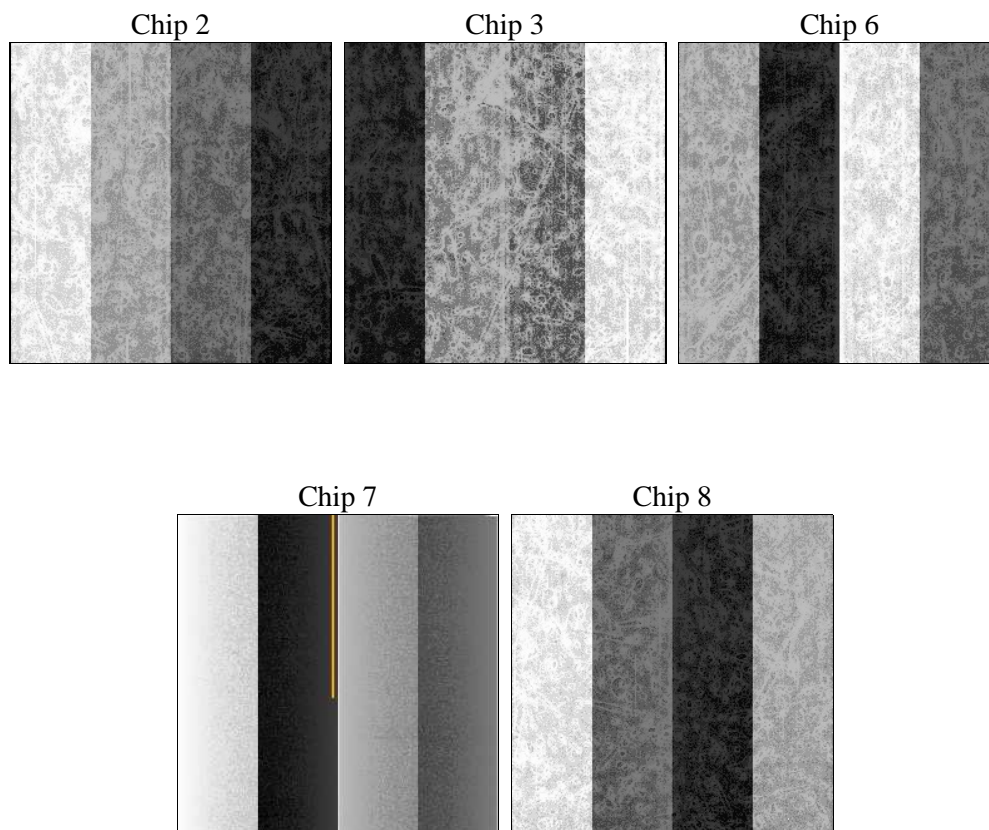
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6000.947000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	6041.9000464678	Sum of GTIs [s]
caldsver	4.5.0	 	ontime2	6041.9000464678	Sum of GTIs [s]
date	2012-07-03T23:47:48	Date and time of file creation	ontime3	6041.9000464678	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	6041.9000464678	Sum of GTIs [s]
			ontime7	6041.9000464678	Sum of GTIs [s]
			ontime8	6038.7590860724	Sum of GTIs [s]
			l1events	240965	Number of level 1 events

2.1.4 Events

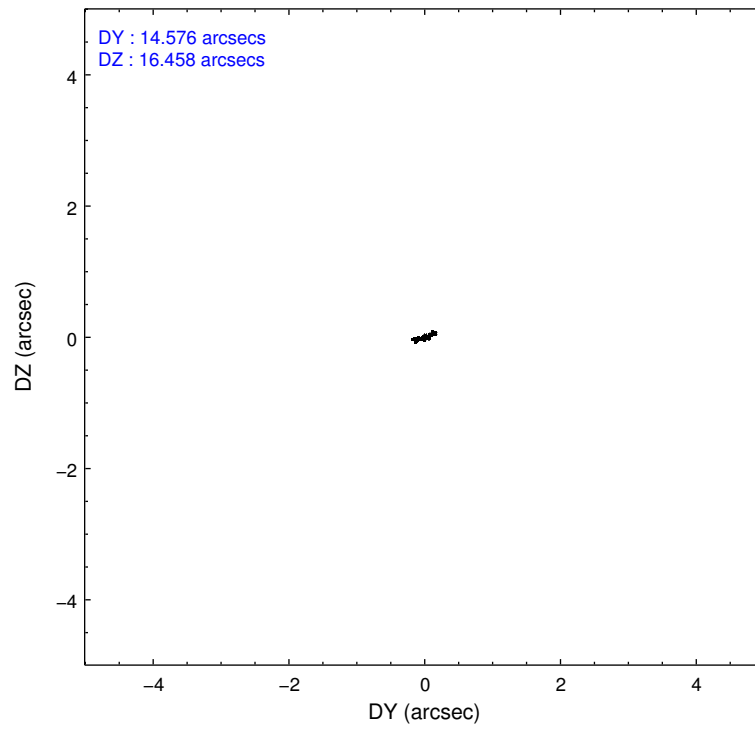
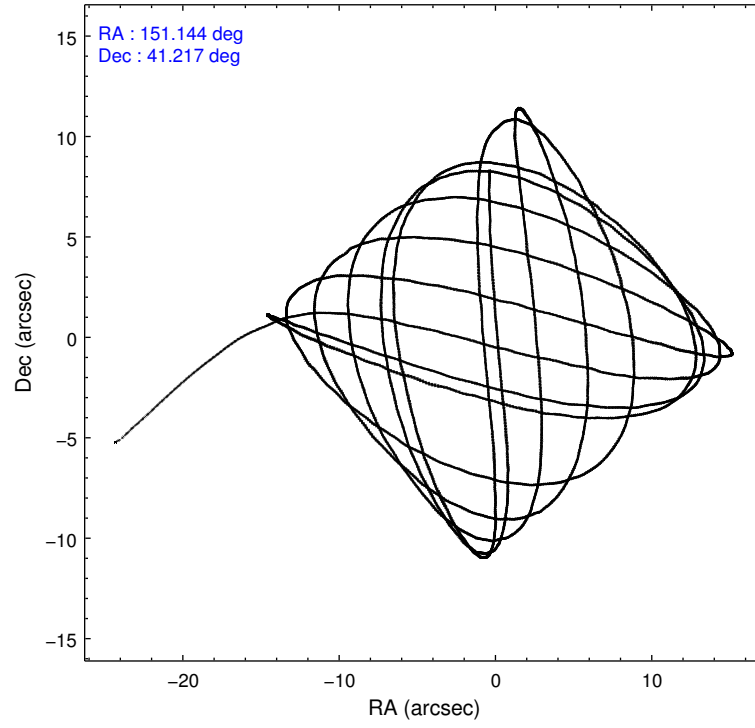
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	43442	43091	44114	53514	56804
rejected events	38747	38706	38945	29242	41232
rejected %	89%	89%	88%	54%	72%

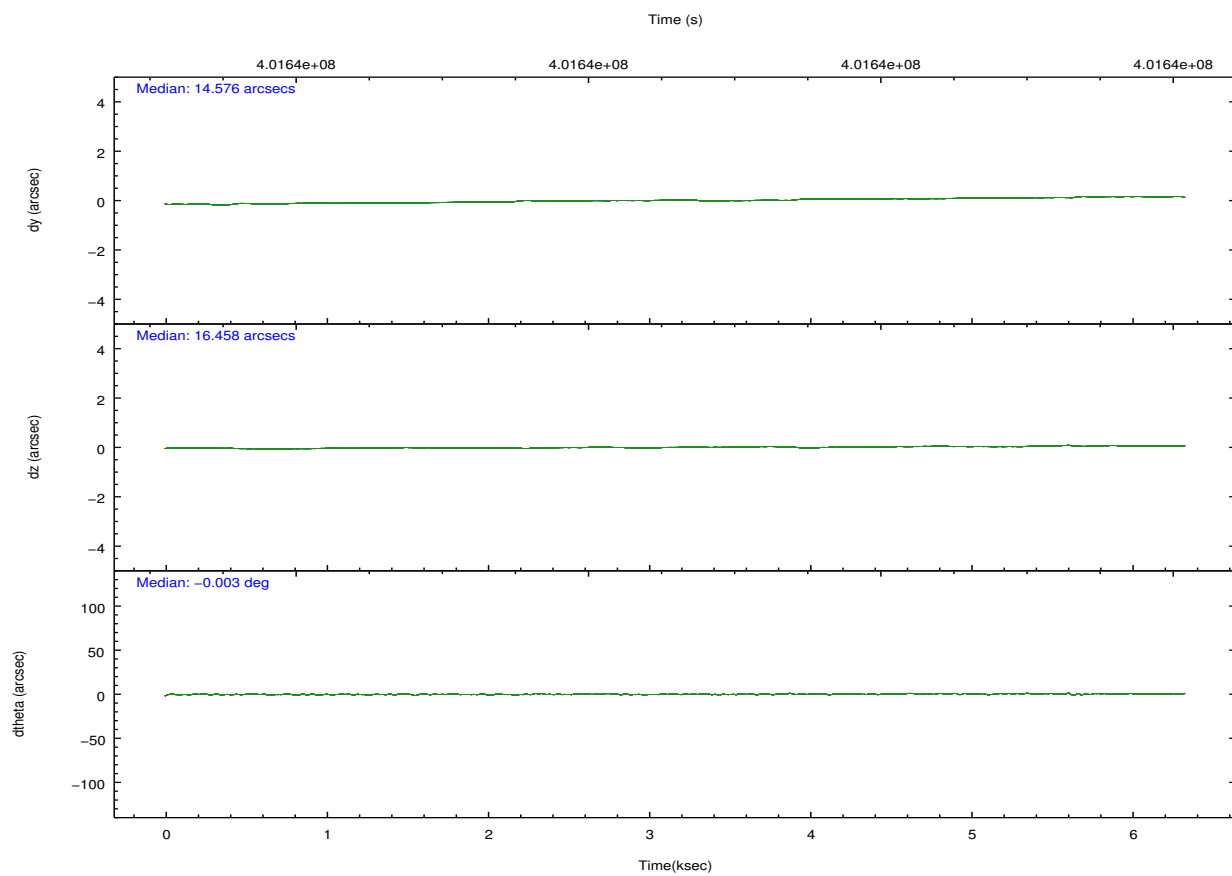
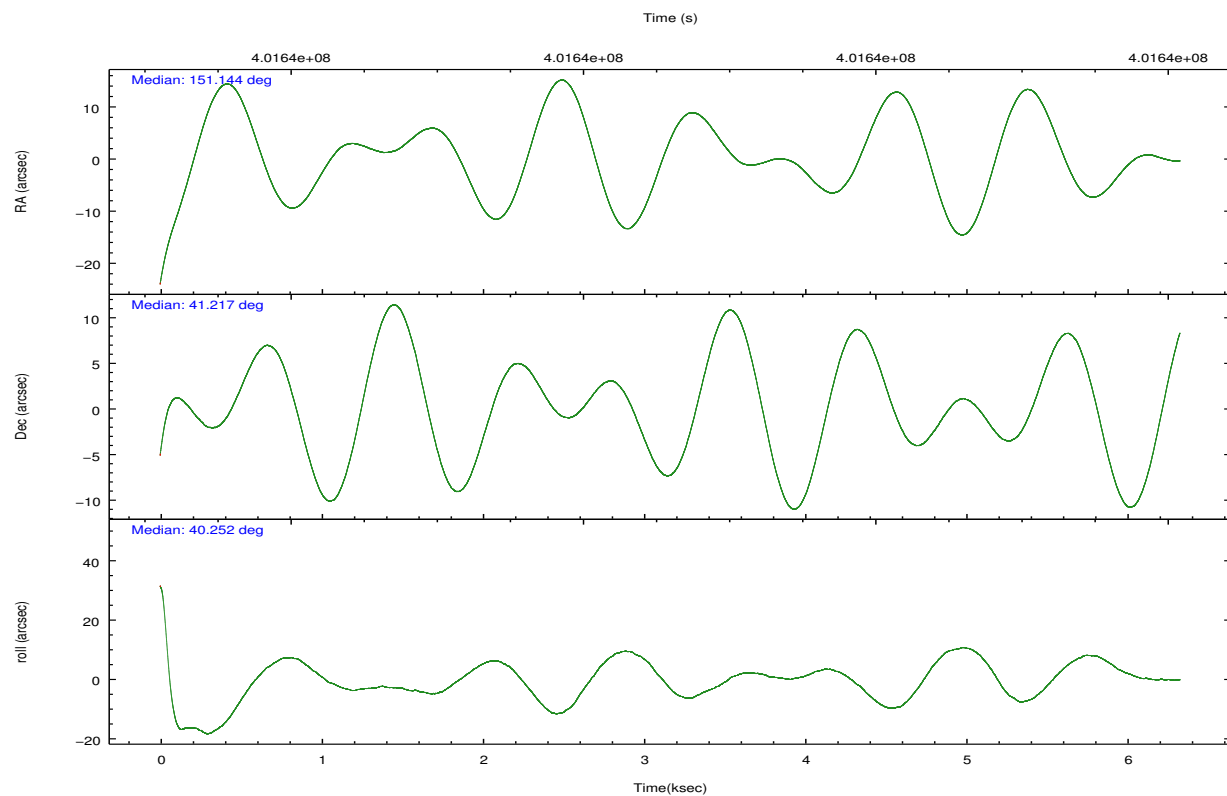
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	1750	1574	1929	2349	4879
	4%	3%	4%	4%	8%
grade 1 events	18	19	22	61	36
	0%	0%	0%	0%	0%
grade 2 events	1135	964	1141	5149	3615
	2%	2%	2%	9%	6%
grade 3 events	452	443	542	2108	1625
	1%	1%	1%	3%	2%
grade 4 events	512	489	512	2147	1555
	1%	1%	1%	4%	2%
grade 5 events	1623	1937	2028	5563	2918
	3%	4%	4%	10%	5%
grade 6 events	849	917	1046	12531	3926
	1%	2%	2%	23%	6%
grade 7 events	37103	36748	36894	23606	38250
	85%	85%	83%	44%	67%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	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	151.132689	151.1444566657824	CCD I2 on	O4	Y
[deg] Pointing Dec	41.190972	41.21679182349596	CCD I3 on	O3	Y
[deg] Pointing Roll	40.112556	40.26151782677658	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	O1	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	O2	Y
[s] Observation start time (MET)	401635745.184000	401634747.06756	CCD S5 on	N	N
Observation start date	2010-09-23T13:27:59	2010-09-23T13:12:27	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	401641746.184000	401641971.26793	On-chip summing requested	N	N
Observation end date	2010-09-23T15:08:00	2010-09-23T15:12:51	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



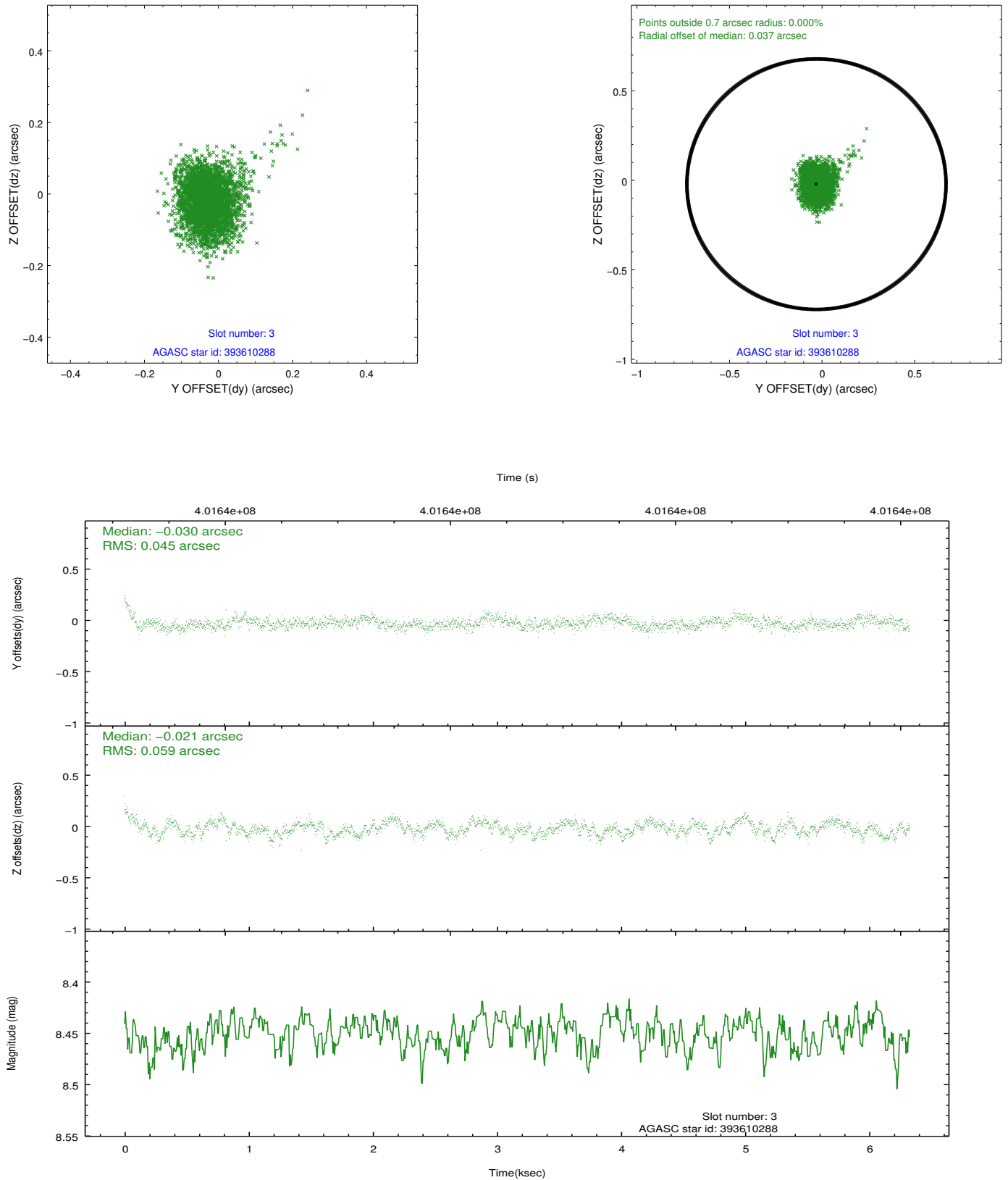


Slot Statistics

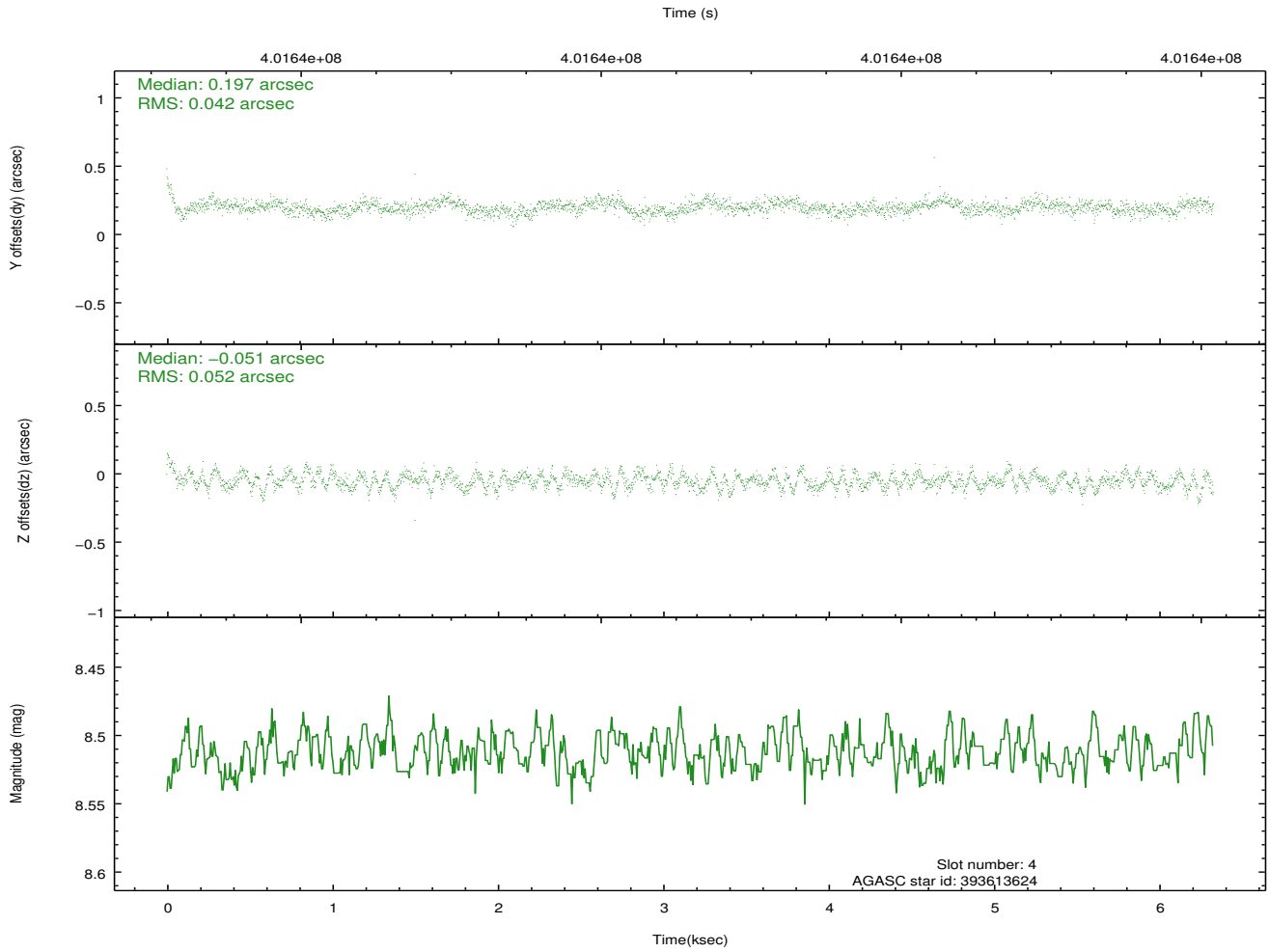
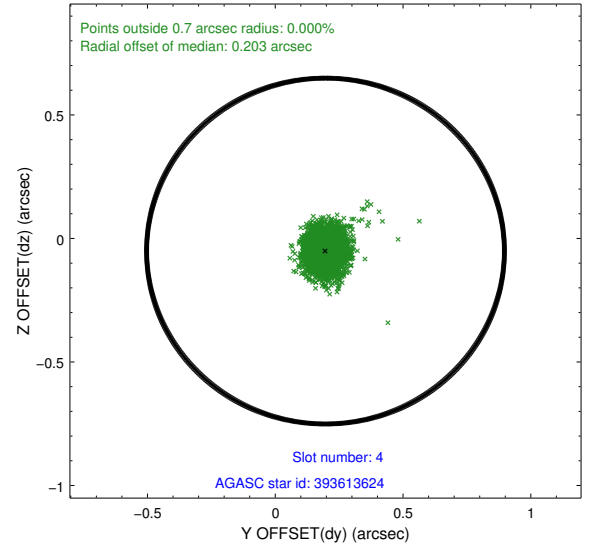
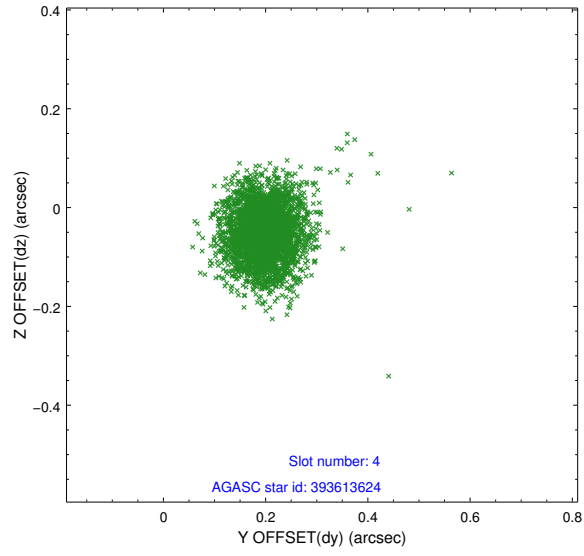
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.88	1544	-0.059	-0.017	0.006	0.011	0.000000	0.000000	-767.61	-1737.89
1	FID	ACIS-S-4	6.97	1544	0.176	0.033	0.005	0.010	0.000000	0.000000	2145.49	169.65
2	FID	ACIS-S-5	7.00	1544	-0.149	-0.007	0.007	0.012	0.000000	0.000000	-1819.34	164.38
3	GUIDE	393610288	8.45	3088	-0.030	-0.021	0.077	0.126	151.538899	41.090404	611.03	-984.17
4	GUIDE	393613624	8.51	3088	0.197	-0.051	0.070	0.113	151.136661	40.665270	-1209.88	-1454.76
5	GUIDE	393616408	9.04	3085	-0.080	-0.015	0.106	0.163	150.713966	41.346840	-502.29	1159.94
6	GUIDE	393616816	8.43	3088	-0.106	-0.044	0.096	0.142	151.562975	40.925077	279.89	-1482.88
7	GUIDE	393619280	9.38	3080	0.017	0.141	0.113	0.186	150.915222	40.640455	-1730.54	-1133.22

2.4 Star Slots

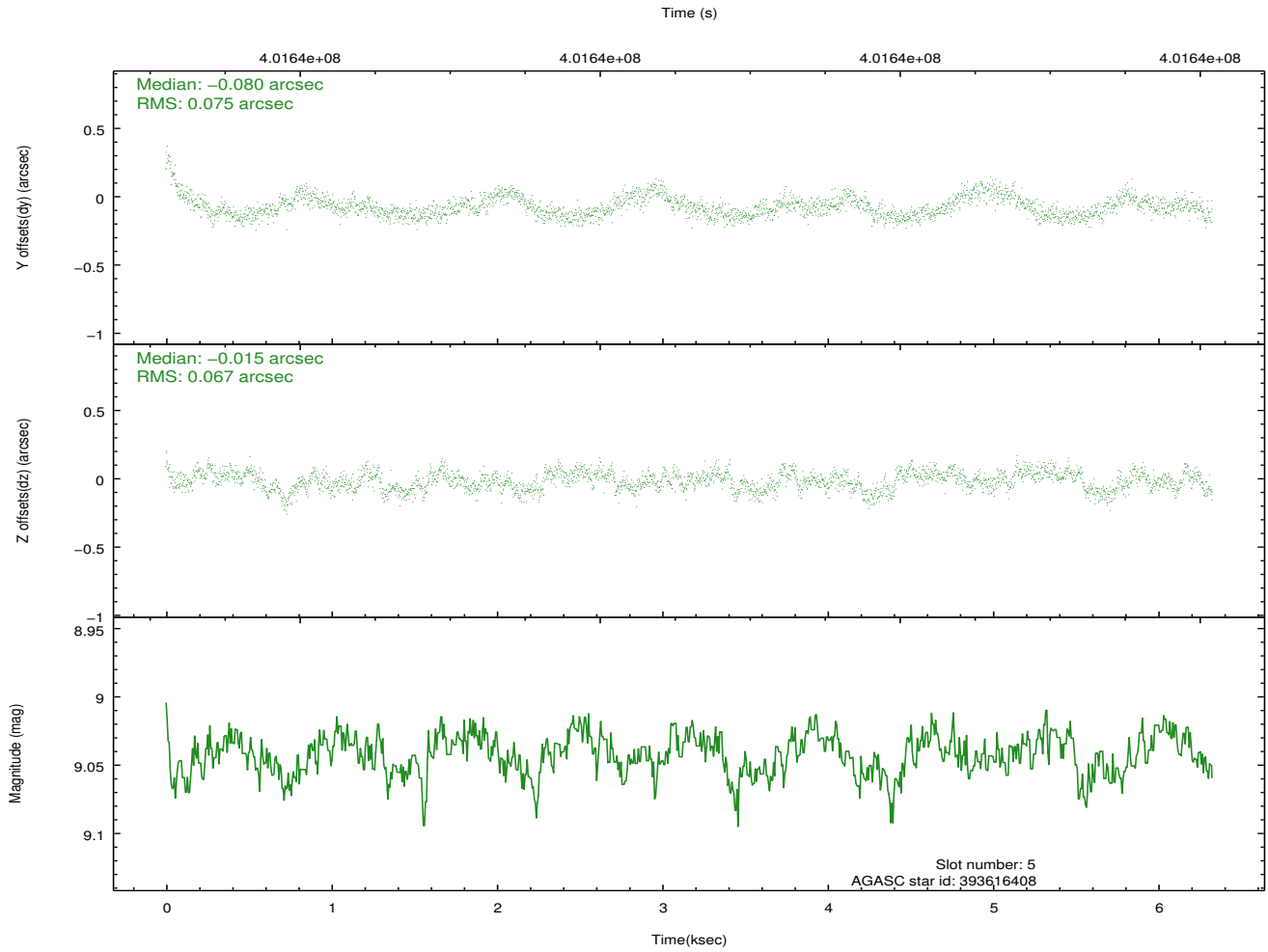
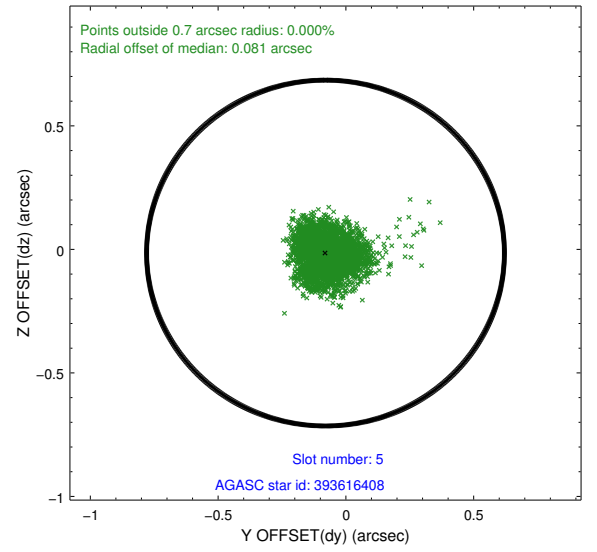
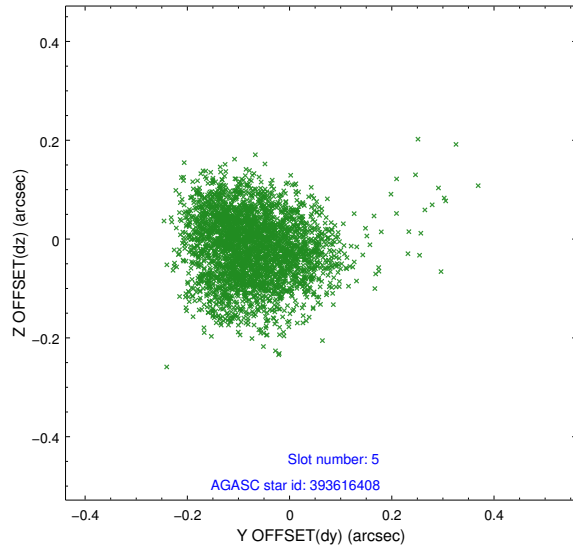
2.4.1 Slot 3



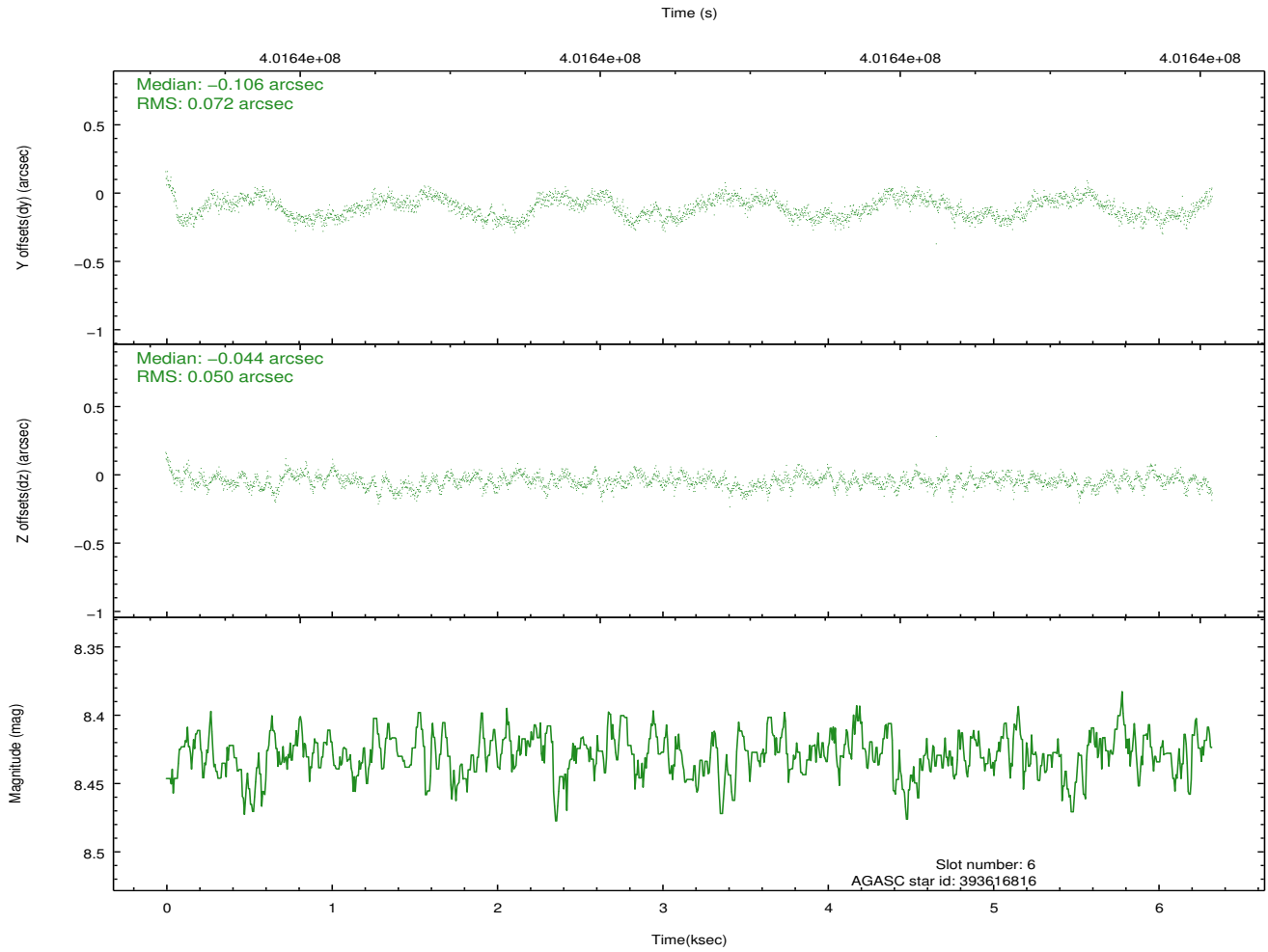
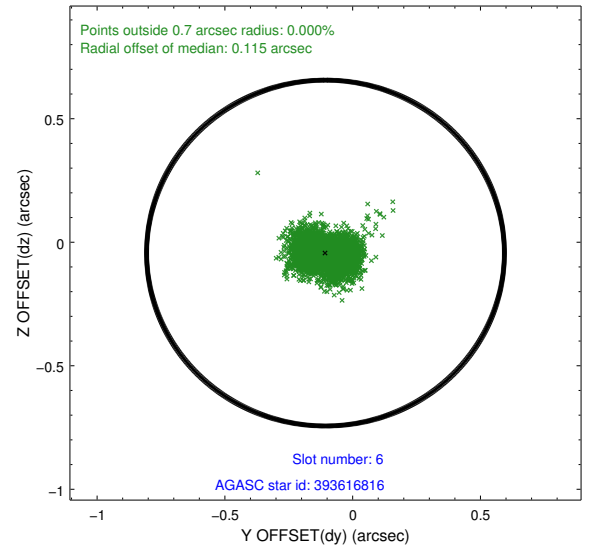
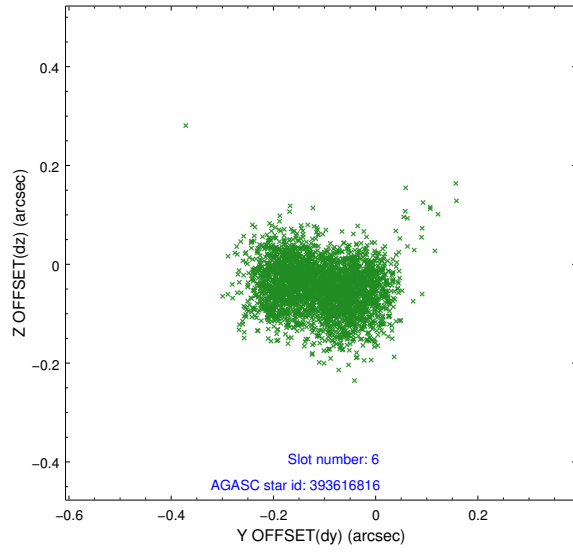
2.4.2 Slot 4



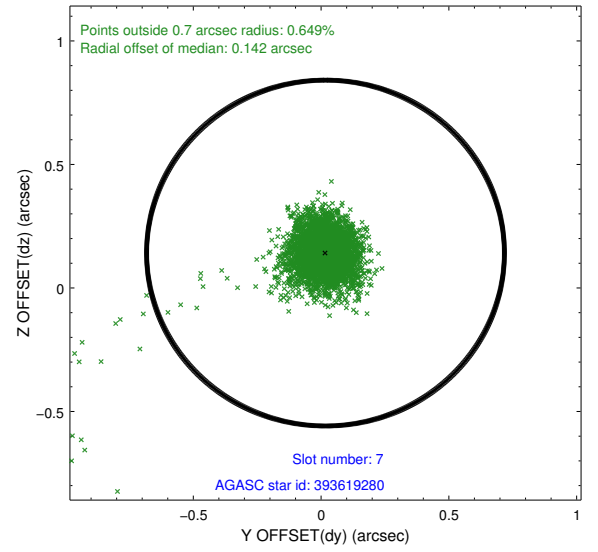
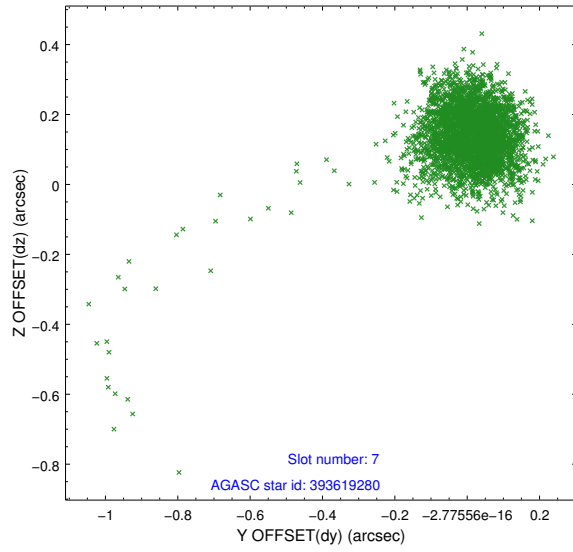
2.4.3 Slot 5



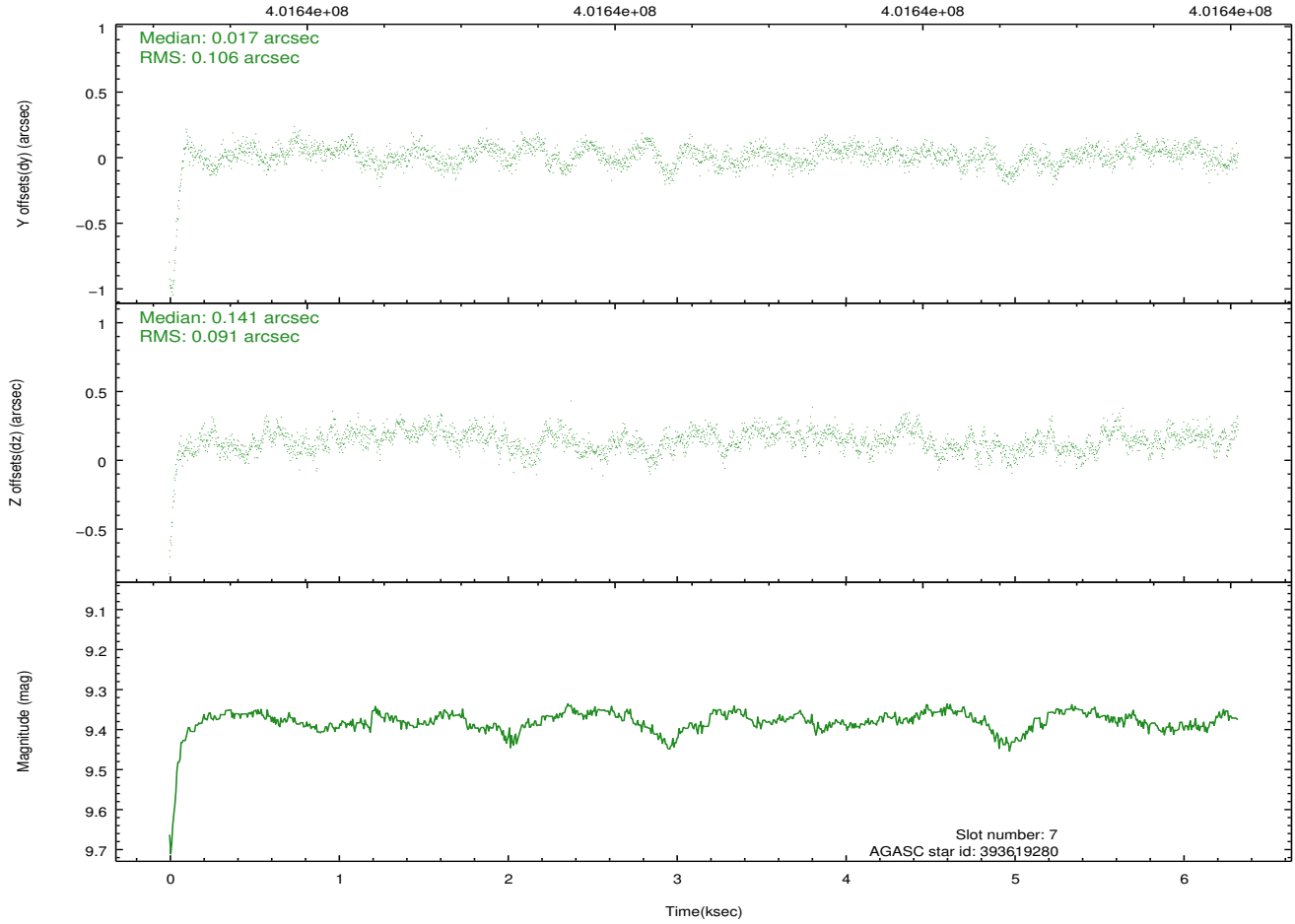
2.4.4 Slot 6



2.4.5 Slot 7

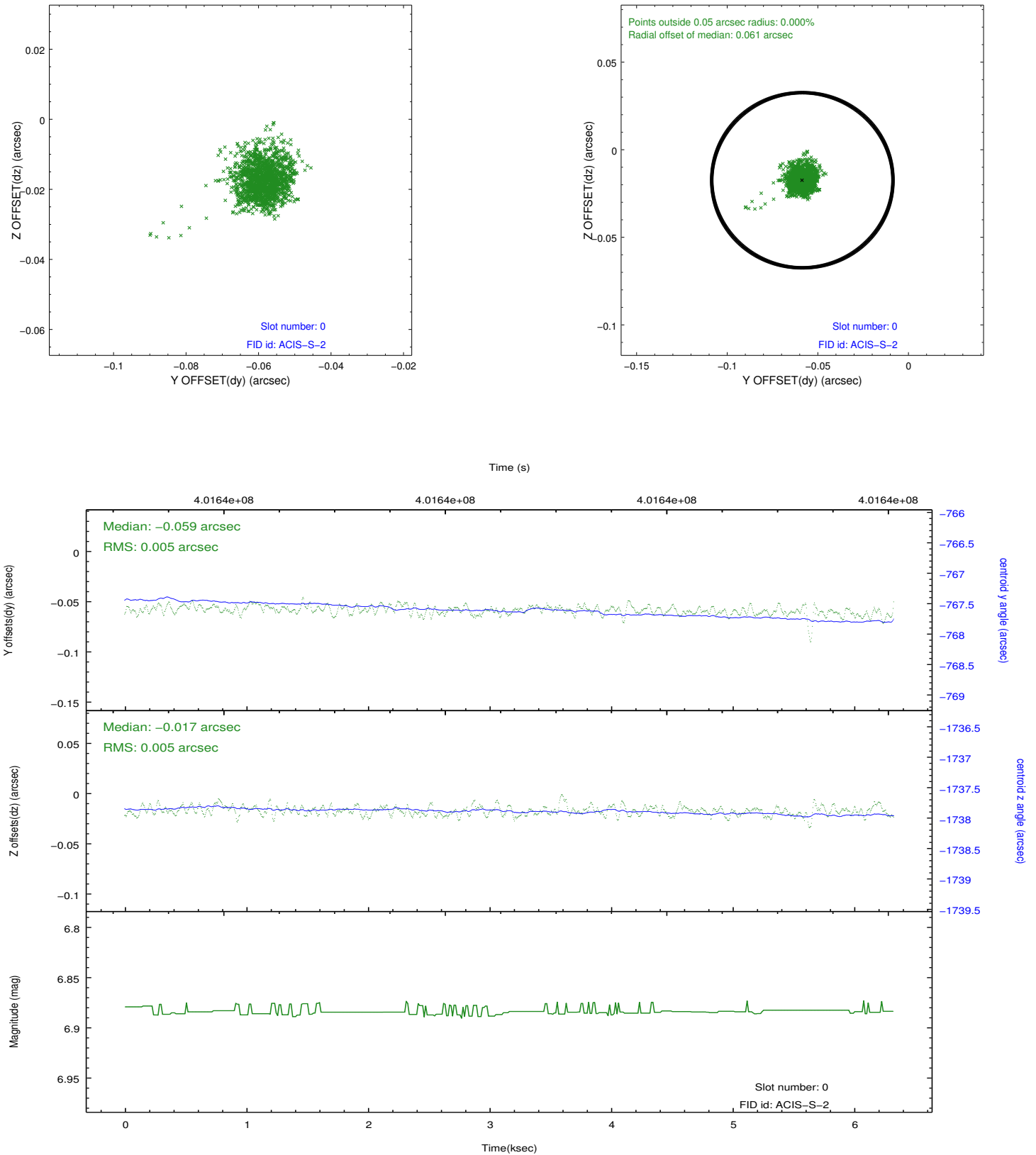


Time (s)

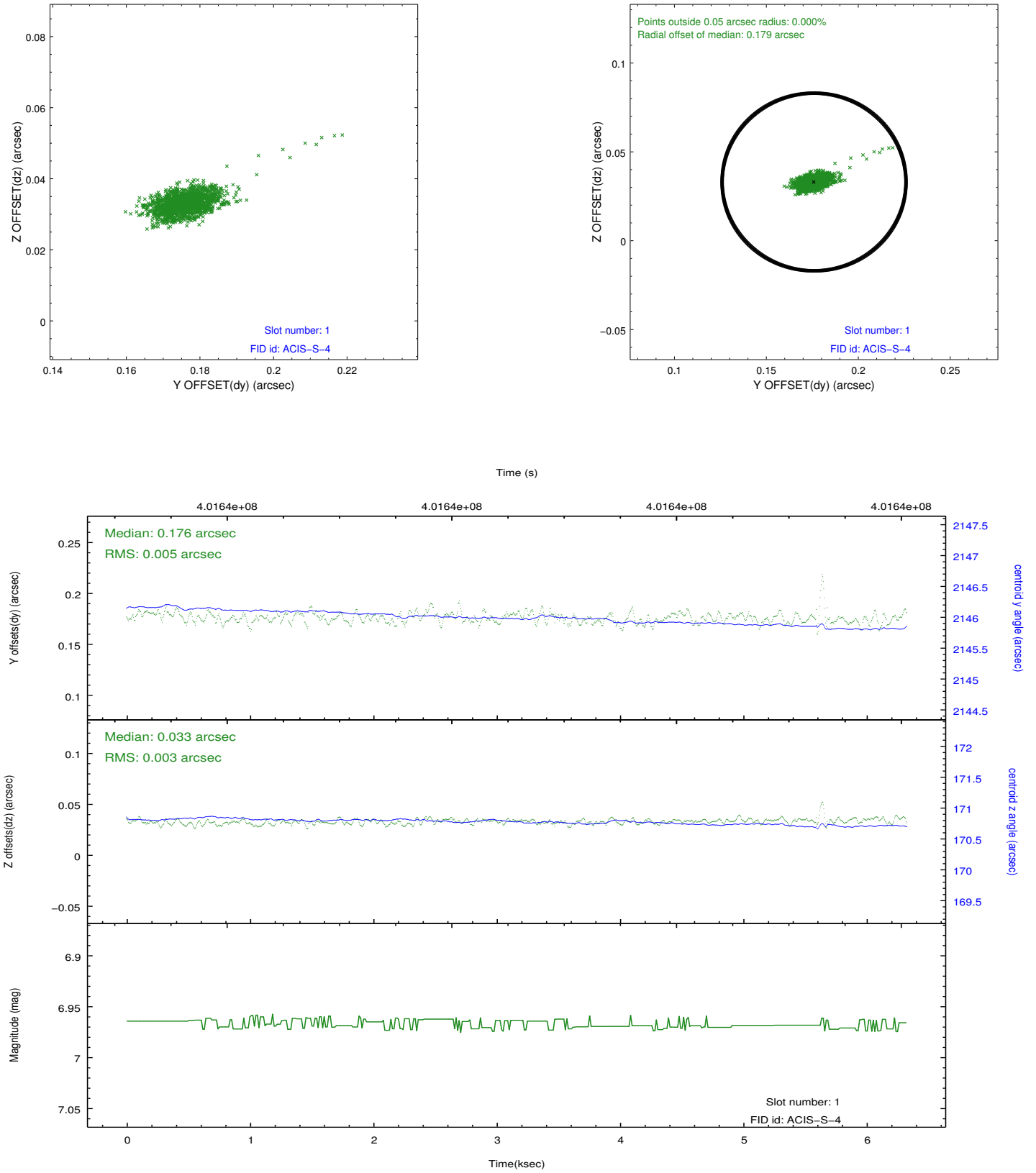


2.5 FID Slots

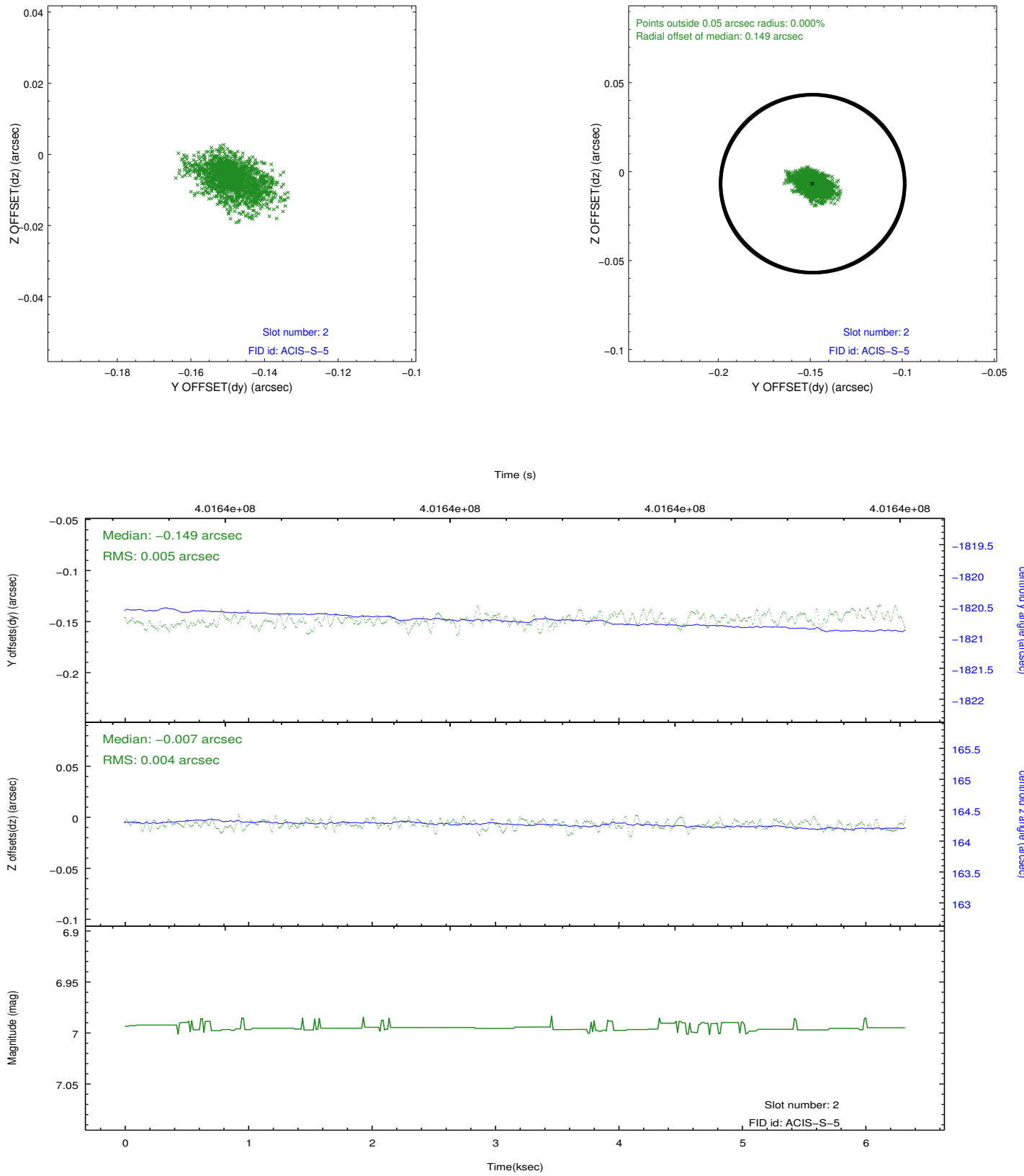
2.5.1 Slot 0



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)	2012.07.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.0419000464678

A.2 Comments