

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 3939 - L2 Version 4
Chandra X-Ray Center

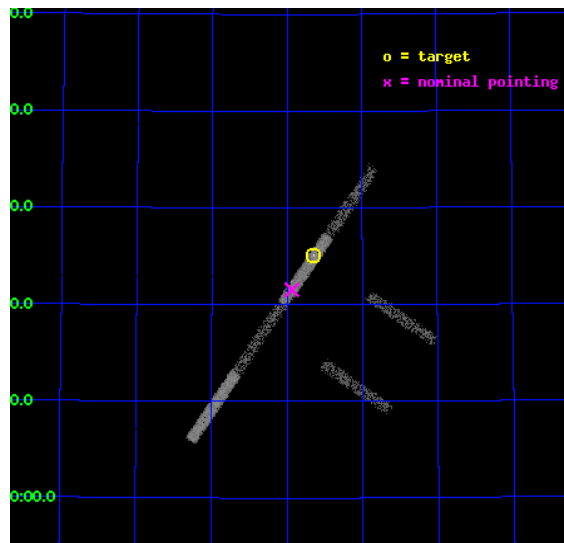
L2 Processing Date : Nov 2 2012

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1 Front

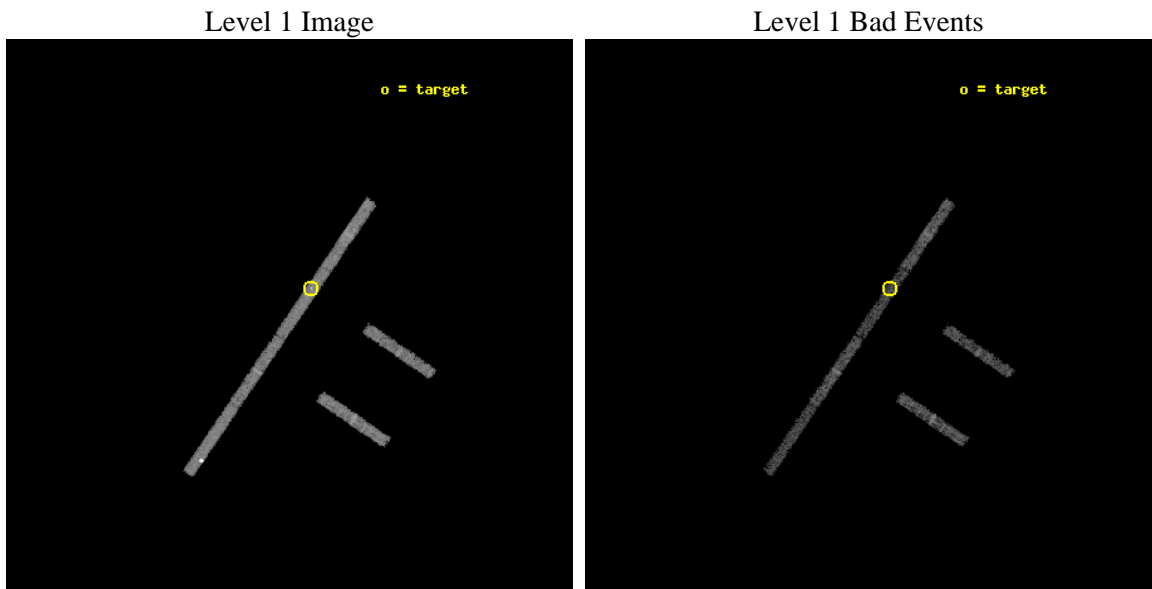
seq_num	600313	Sequence number
obs_id	3939	Observation id
title	PROBING THE SPECTRAL VARIABILITY OF THE ULTRALUMINOUS X-RAY SOURCE NGC 5204 X-1	Proposal title
observer	Dr Timothy Roberts	Principal investigator
object	NGC 5204 X-1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	202.410833	Observer's specified target RA [deg]
dec_targ	58.418333	Observer's specified target Dec [deg]
ra_nom	202.48386950967	Nominal RA [deg]
dec_nom	58.358889256715	Nominal Dec [deg]
roll_nom	304.23736534894	Nominal Roll [deg]
revision	4	Processing version of data
ontime	5443.8999072909	Sum of GTIs [s]
livetime	5142.4078796066	Livetime [s]
ontime2	5443.8999072909	Sum of GTIs [s]
ontime3	5443.8999072909	Sum of GTIs [s]
ontime5	5443.8999072909	Sum of GTIs [s]
ontime6	5443.8999072909	Sum of GTIs [s]
ontime7	5443.8999072909	Sum of GTIs [s]
ontime8	5443.8797426224	Sum of GTIs [s]
l2events	8829	Number of level 2 events



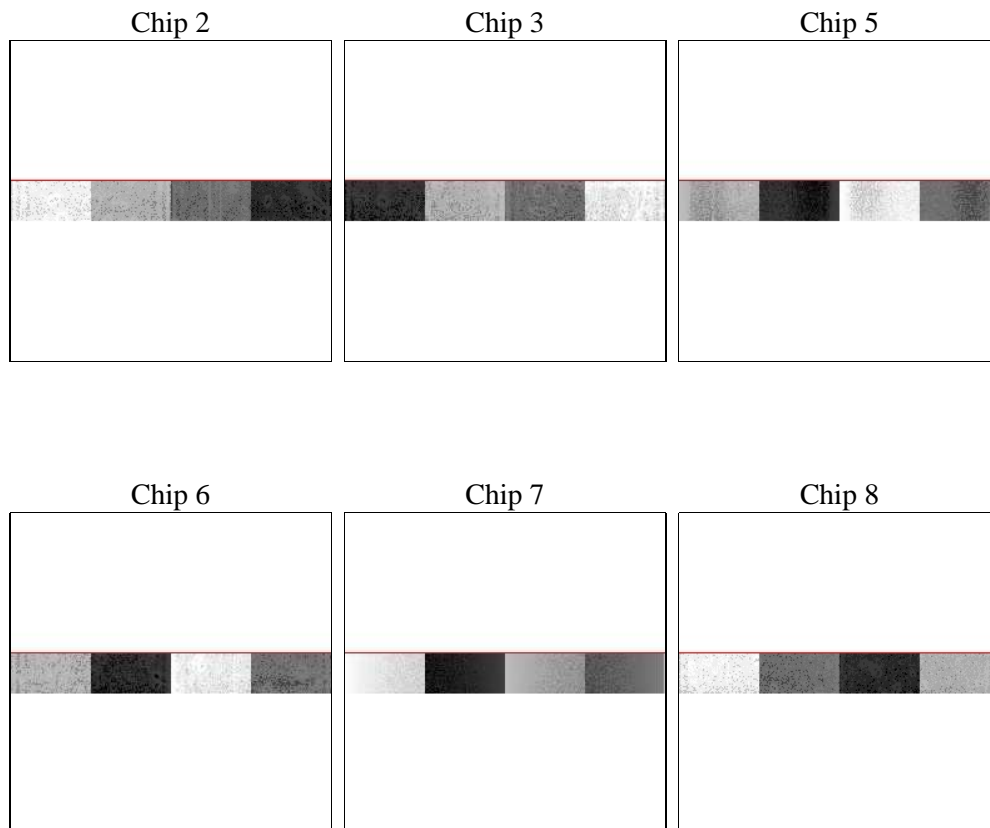
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4932.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5443.8999072909	Sum of GTIs [s]
caldbver	4.5.2	 	ontime2	5443.8999072909	Sum of GTIs [s]
date	2012-11-02T16:07:45	Date and time of file creation	ontime3	5443.8999072909	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	5443.8999072909	Sum of GTIs [s]
			ontime6	5443.8999072909	Sum of GTIs [s]
			ontime7	5443.8999072909	Sum of GTIs [s]
			ontime8	5443.8797426224	Sum of GTIs [s]
			l1events	48233	Number of level 1 events

2.1.4 Events

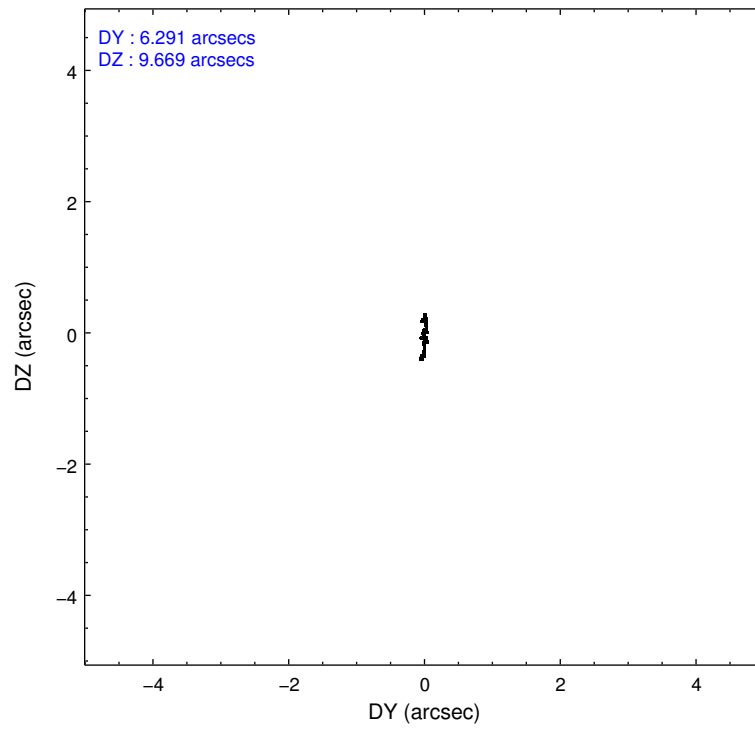
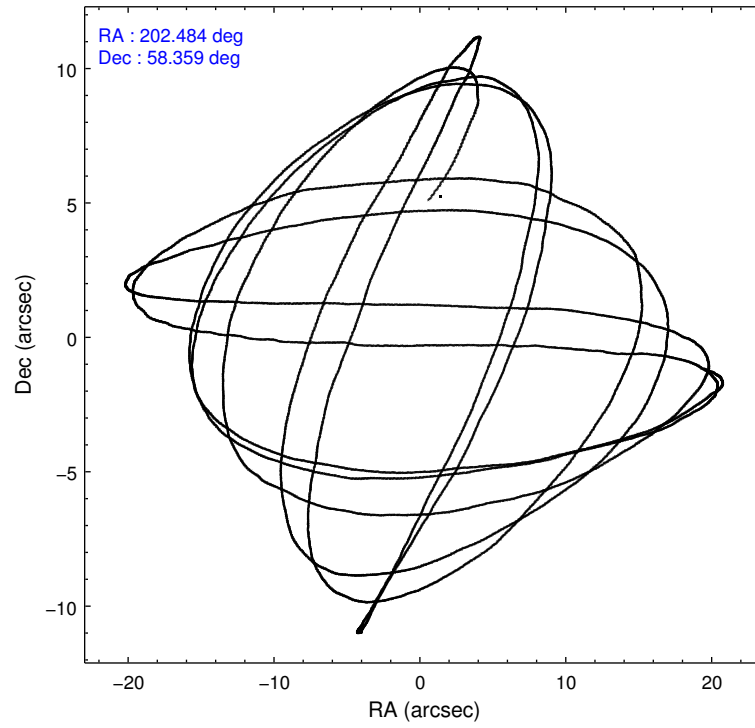
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	6889	5452	14071	6441	7306	8074
rejected events	6183	4799	3737	5755	3704	6766
rejected %	89%	88%	26%	89%	50%	83%

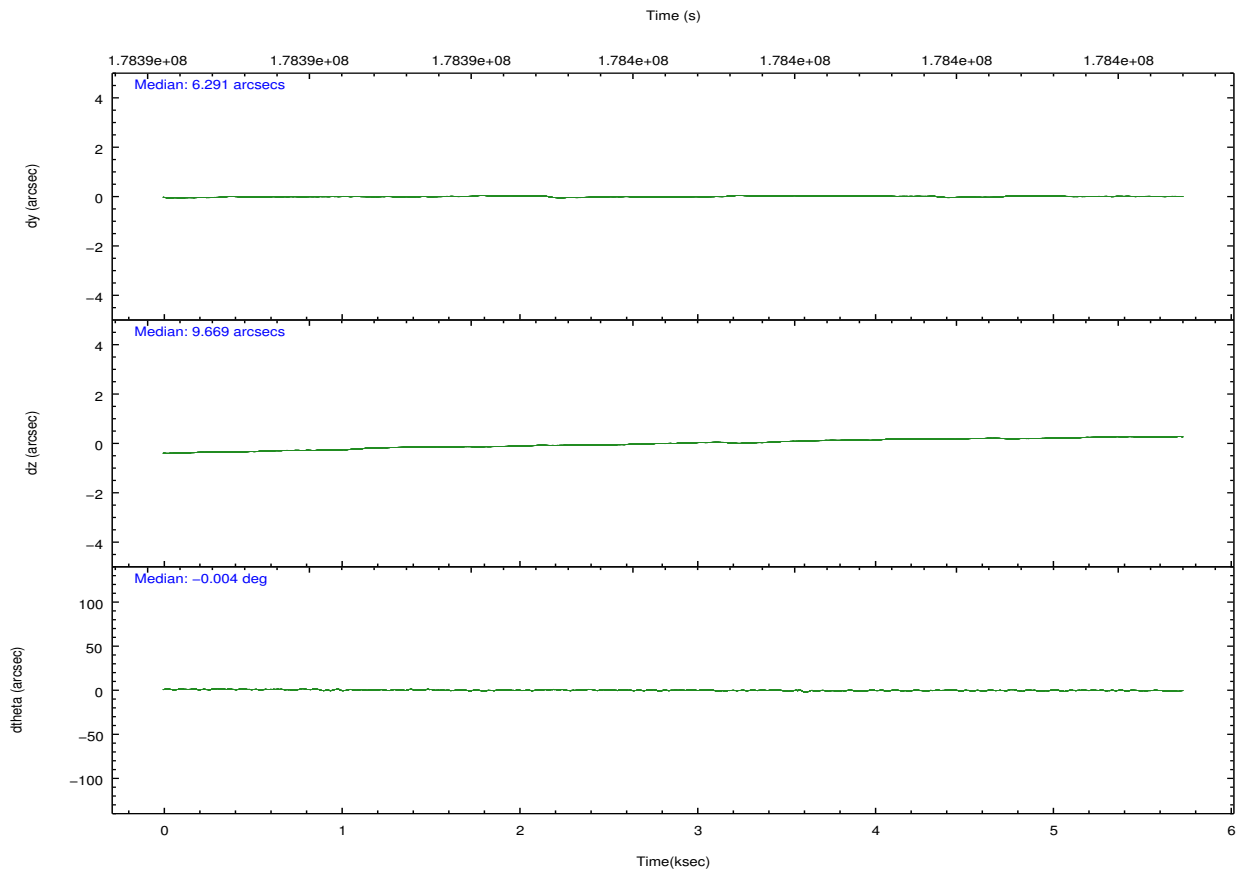
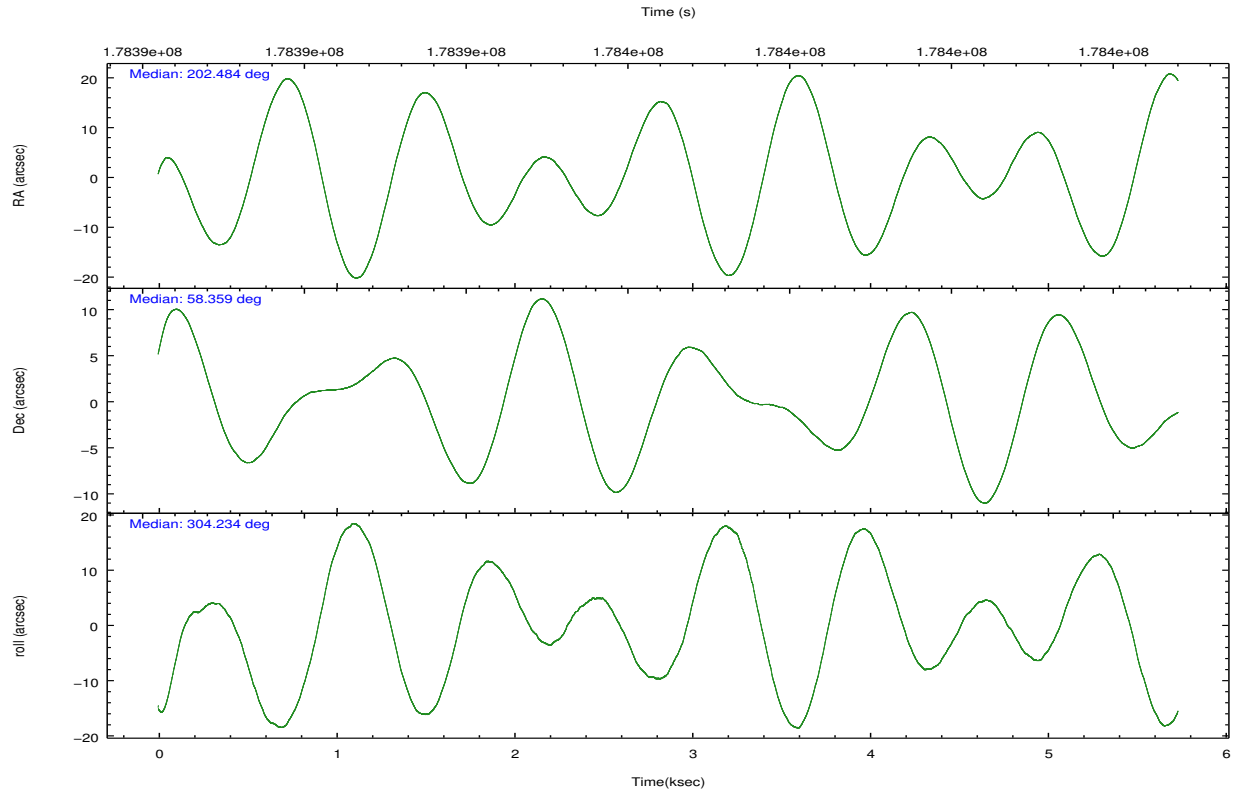
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	240	252	5625	259	558	366
	3%	4%	39%	4%	7%	4%
grade 1 events	1	1	21	0	9	3
	0%	0%	0%	0%	0%	0%
grade 2 events	125	90	2642	100	771	267
	1%	1%	18%	1%	10%	3%
grade 3 events	106	118	230	104	407	156
	1%	2%	1%	1%	5%	1%
grade 4 events	132	86	239	100	381	144
	1%	1%	1%	1%	5%	1%
grade 5 events	186	176	545	222	597	251
	2%	3%	3%	3%	8%	3%
grade 6 events	104	107	1600	123	1486	376
	1%	1%	11%	1%	20%	4%
grade 7 events	5995	4622	3169	5533	3097	6511
	87%	84%	22%	85%	42%	80%

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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	202.436770	202.483869509673	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	58.370351	58.35888925671453	Subarray start row	449	449
[deg] Pointing Roll	304.120865	304.2373653489374	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.7
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	178393182.184000	178391910.21467			
Observation start date	2003-08-27T17:38:38	2003-08-27T17:18:30			
[s] Observation end time (MET)	178398114.184000	178398662.40246			
Observation end date	2003-08-27T19:00:50	2003-08-27T19:11:02			
Read mode	TIMED	TIMED			

2.3 Aspect



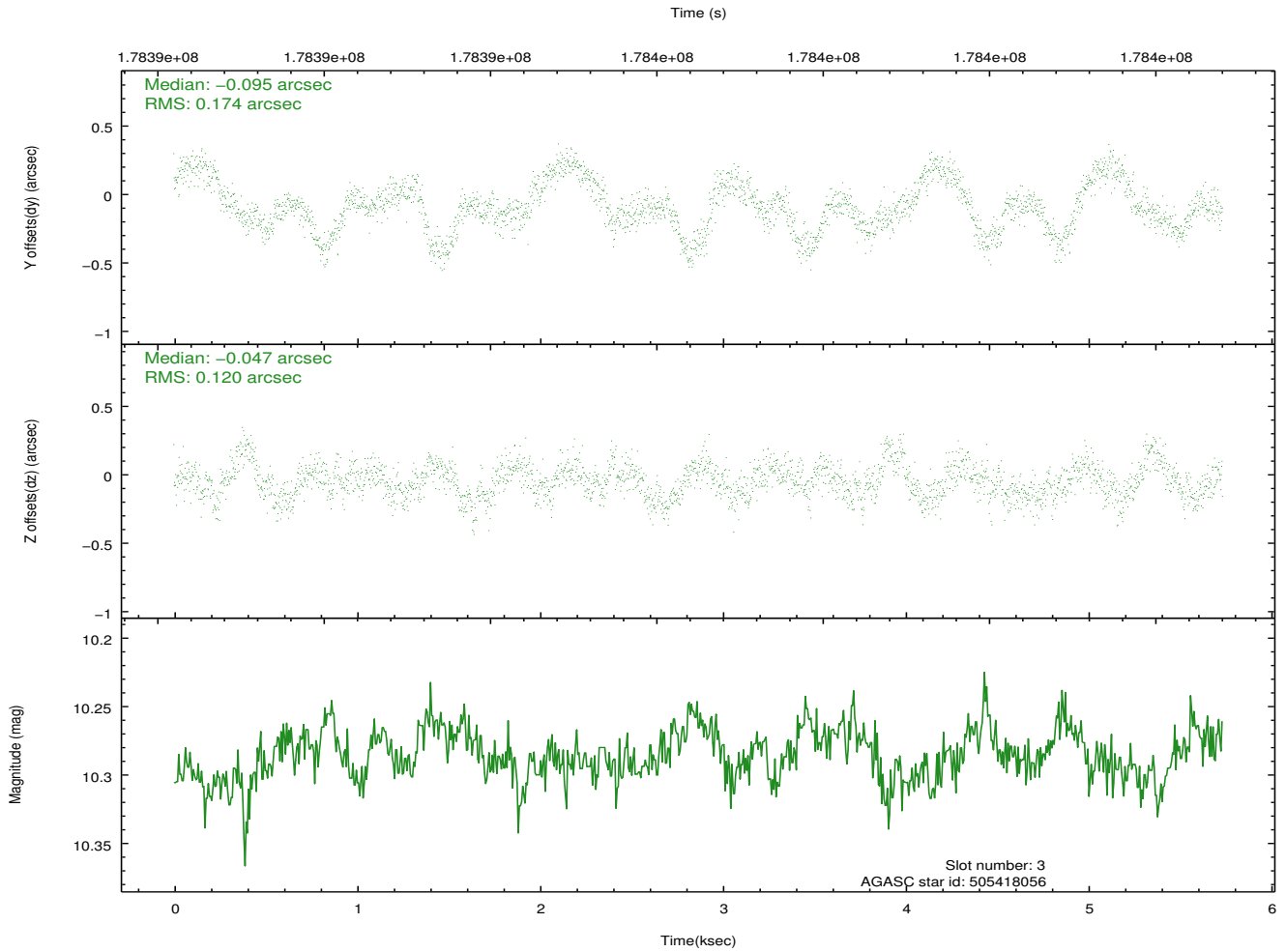
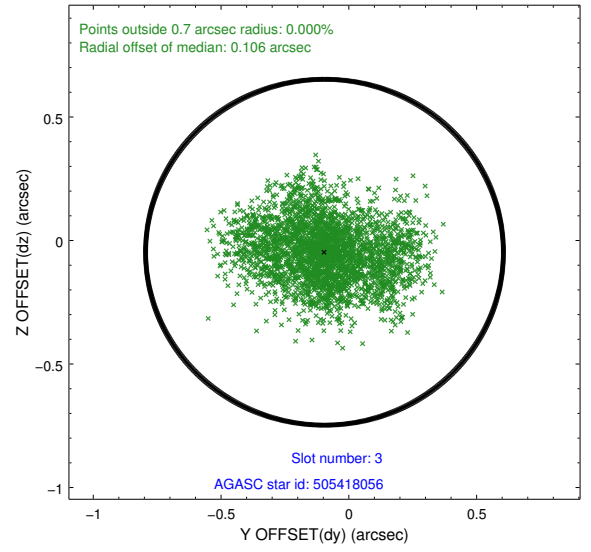
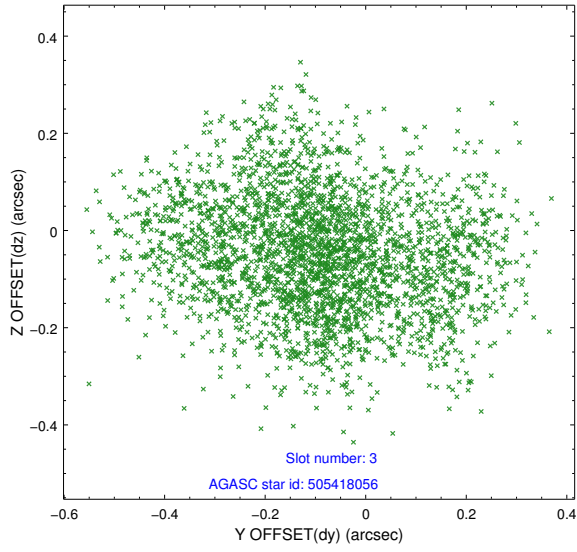


Slot Statistics

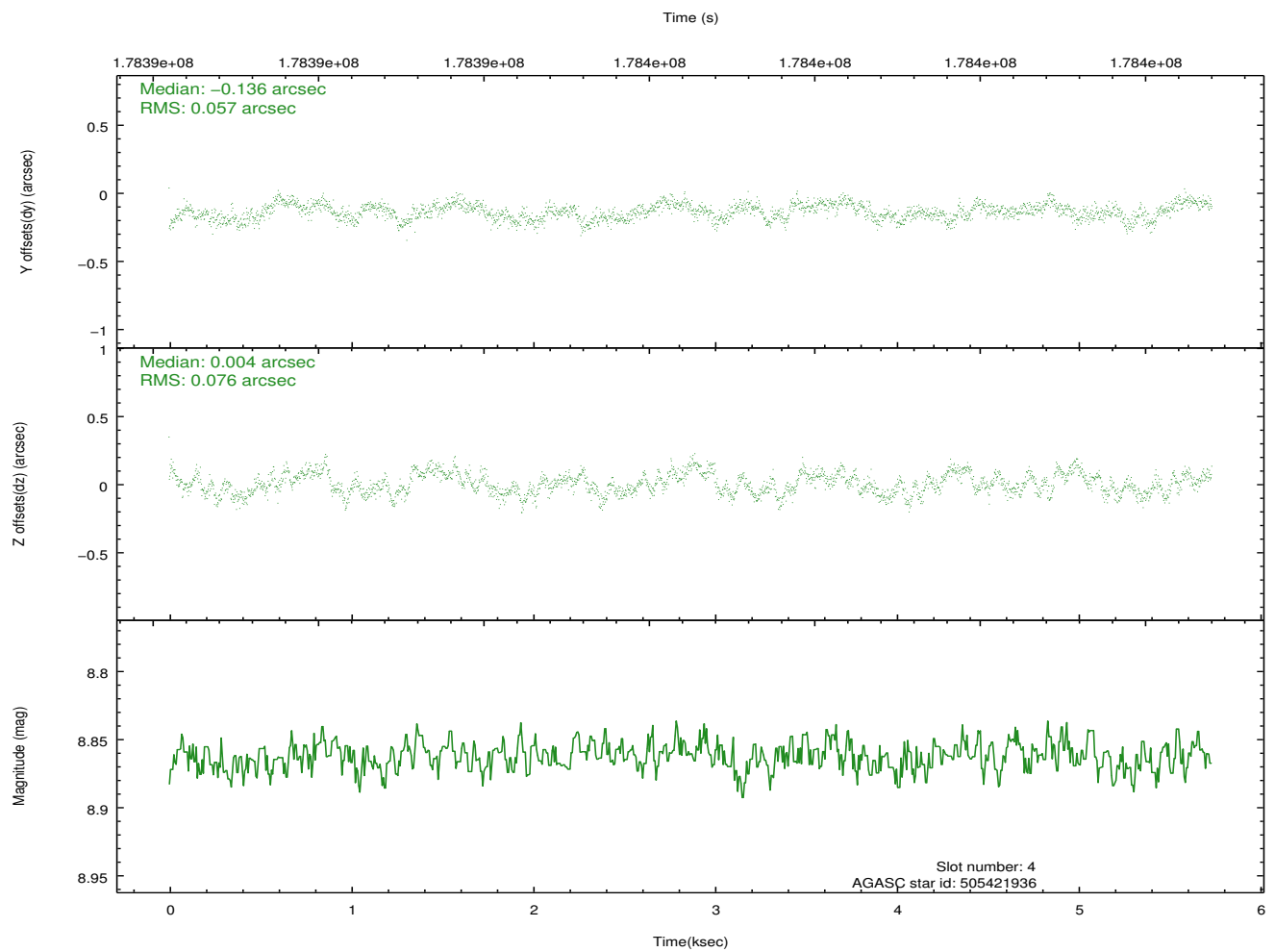
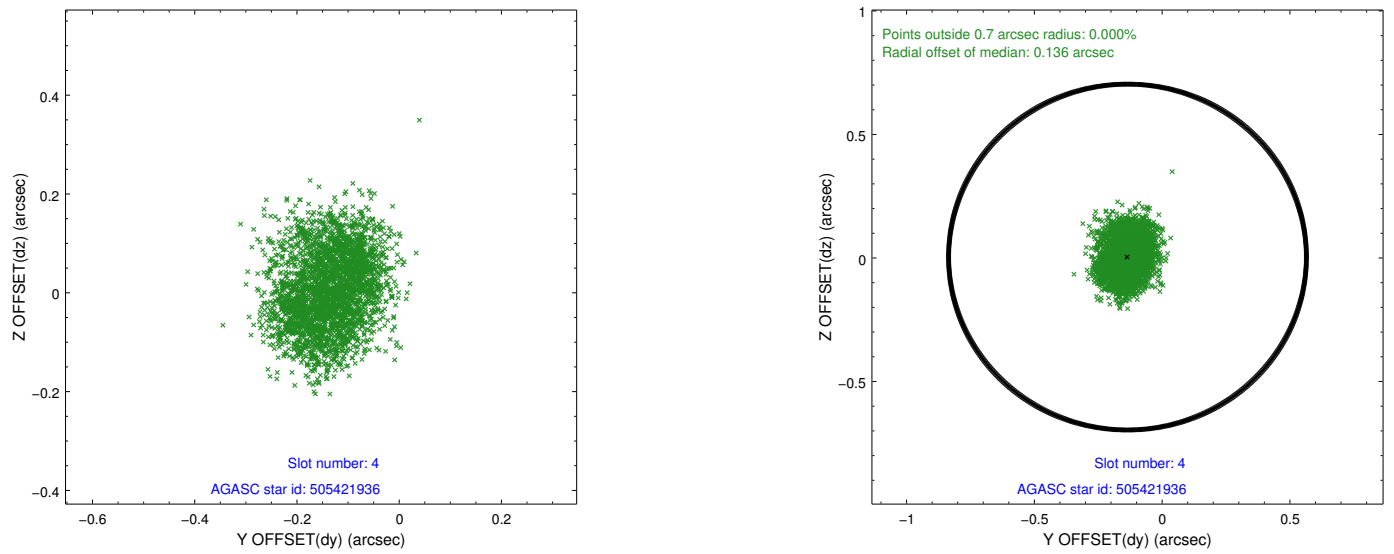
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1400	-0.066	-0.041	0.006	0.011	0.000000	0.000000	-759.08	-1730.93
1	FID	ACIS-S-4	7.20	1399	0.052	0.038	0.006	0.010	0.000000	0.000000	2153.83	176.56
2	FID	ACIS-S-6	7.35	1399	-0.014	0.010	0.007	0.013	0.000000	0.000000	404.28	815.11
3	GUIDE	505418056	10.29	2793	-0.095	-0.047	0.232	0.359	201.348041	58.344804	-1090.93	-1745.00
4	GUIDE	505421936	8.86	2797	-0.136	0.004	0.102	0.156	201.854843	57.887820	809.53	-1894.06
5	GUIDE	505422344	8.62	2797	0.010	0.033	0.088	0.134	202.767077	57.846963	1914.47	-532.54
6	GUIDE	505419736	10.70	2798	0.157	0.086	0.275	0.441	201.540610	58.189000	-421.28	-1767.66
7	GUIDE	505422504	10.08	2795	0.068	-0.058	0.137	0.225	202.156173	59.054723	-2331.54	951.97

2.4 Star Slots

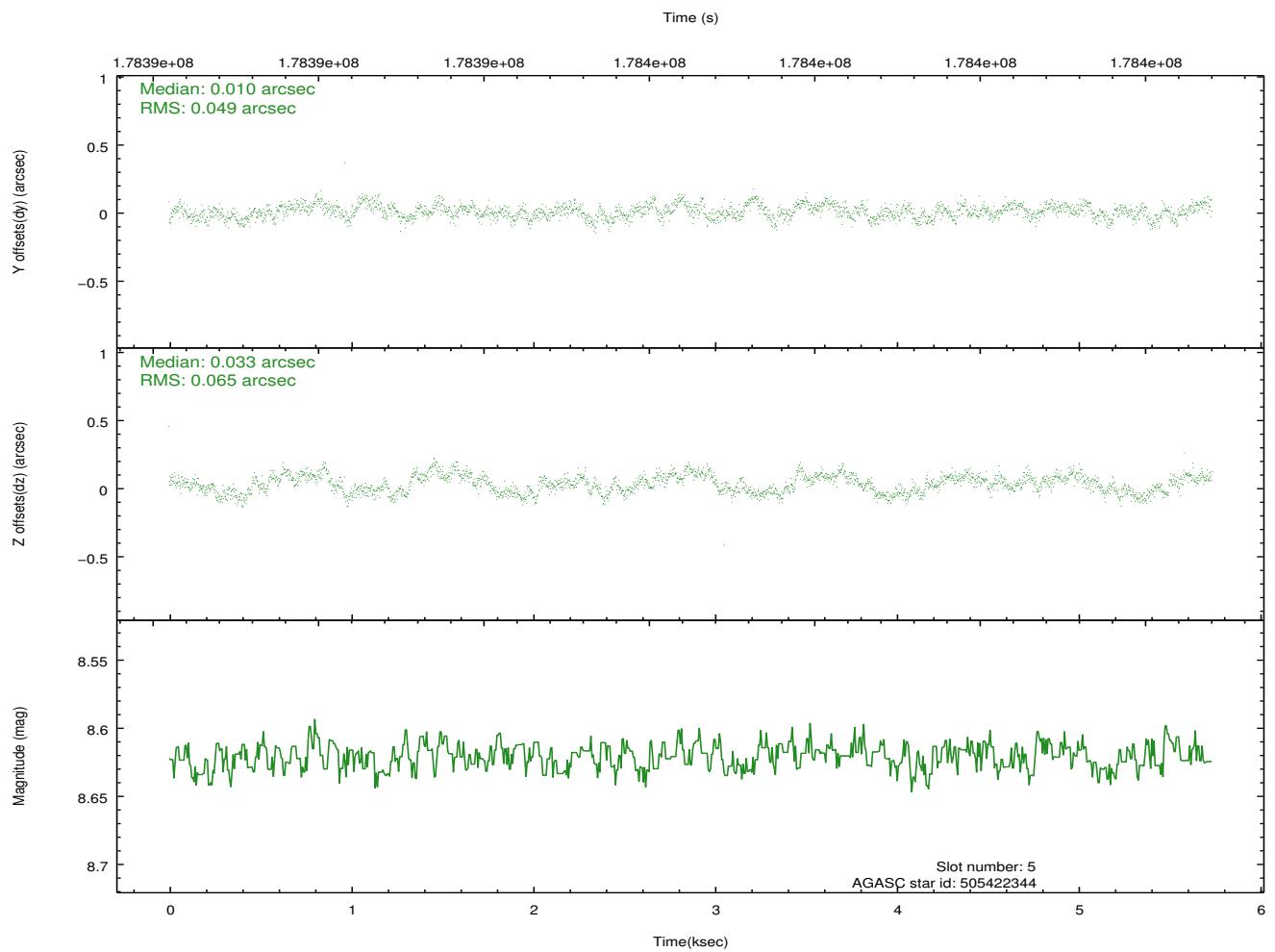
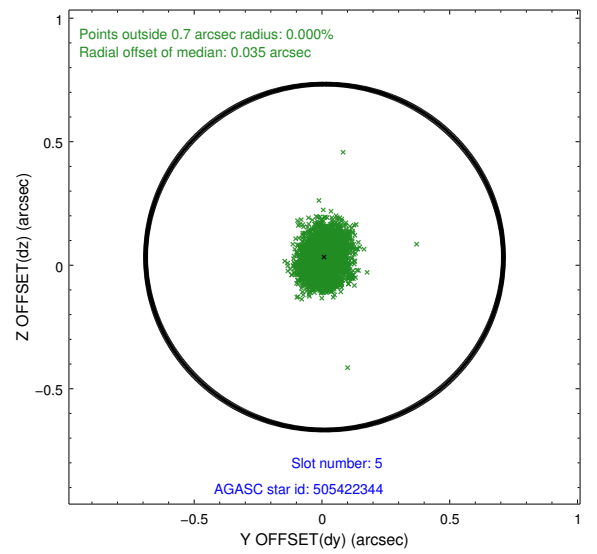
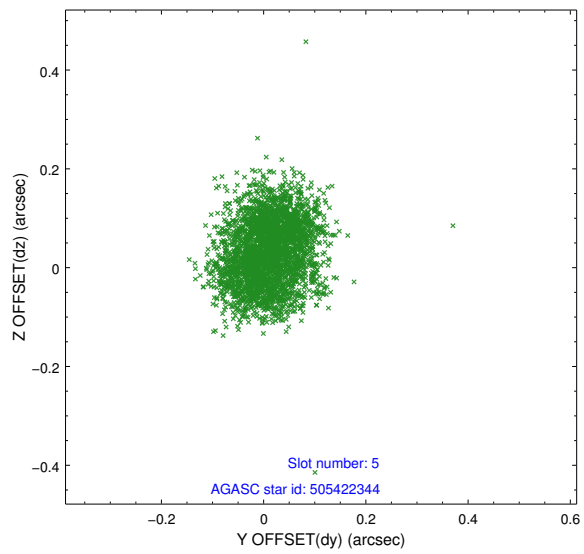
2.4.1 Slot 3



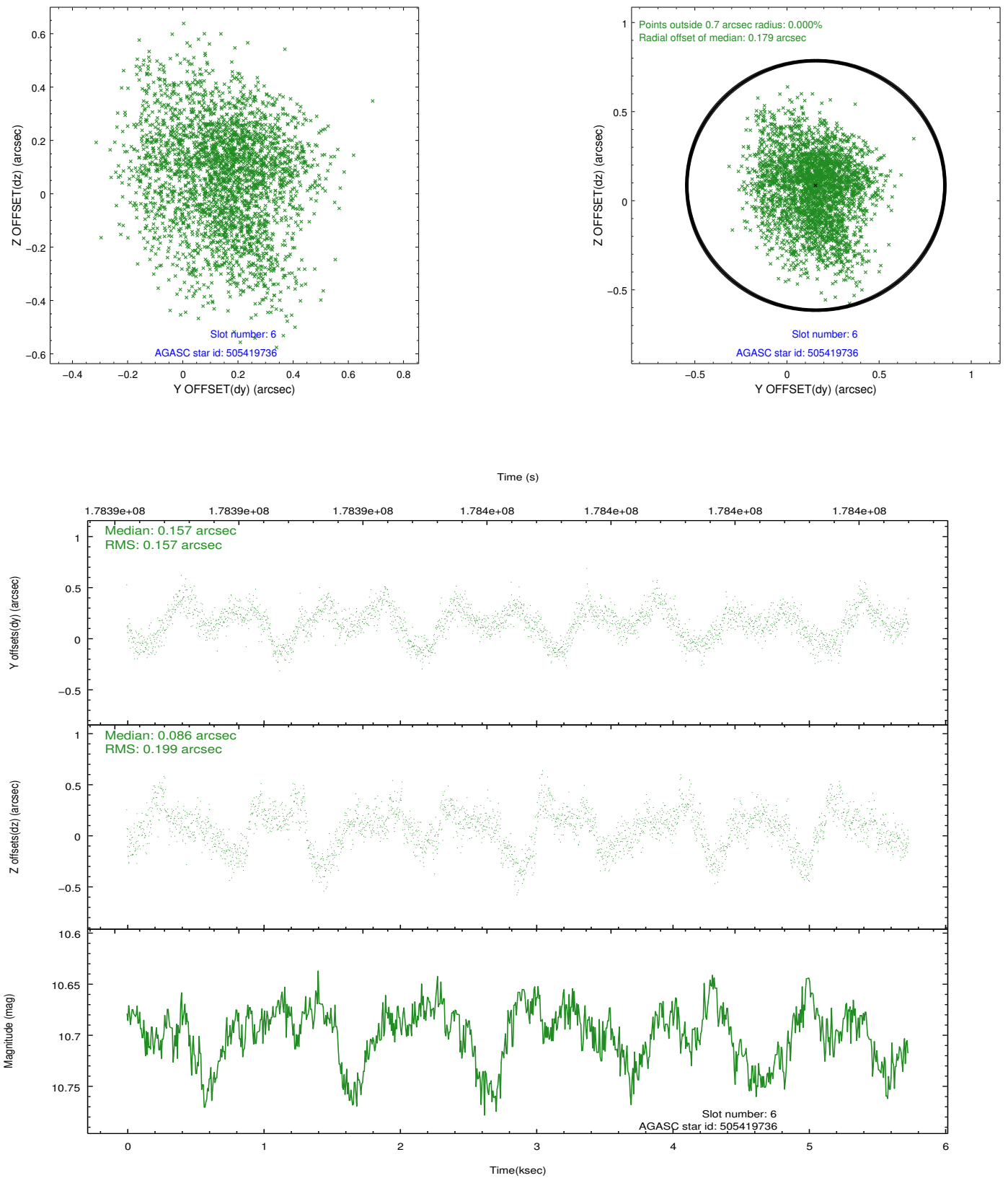
2.4.2 Slot 4



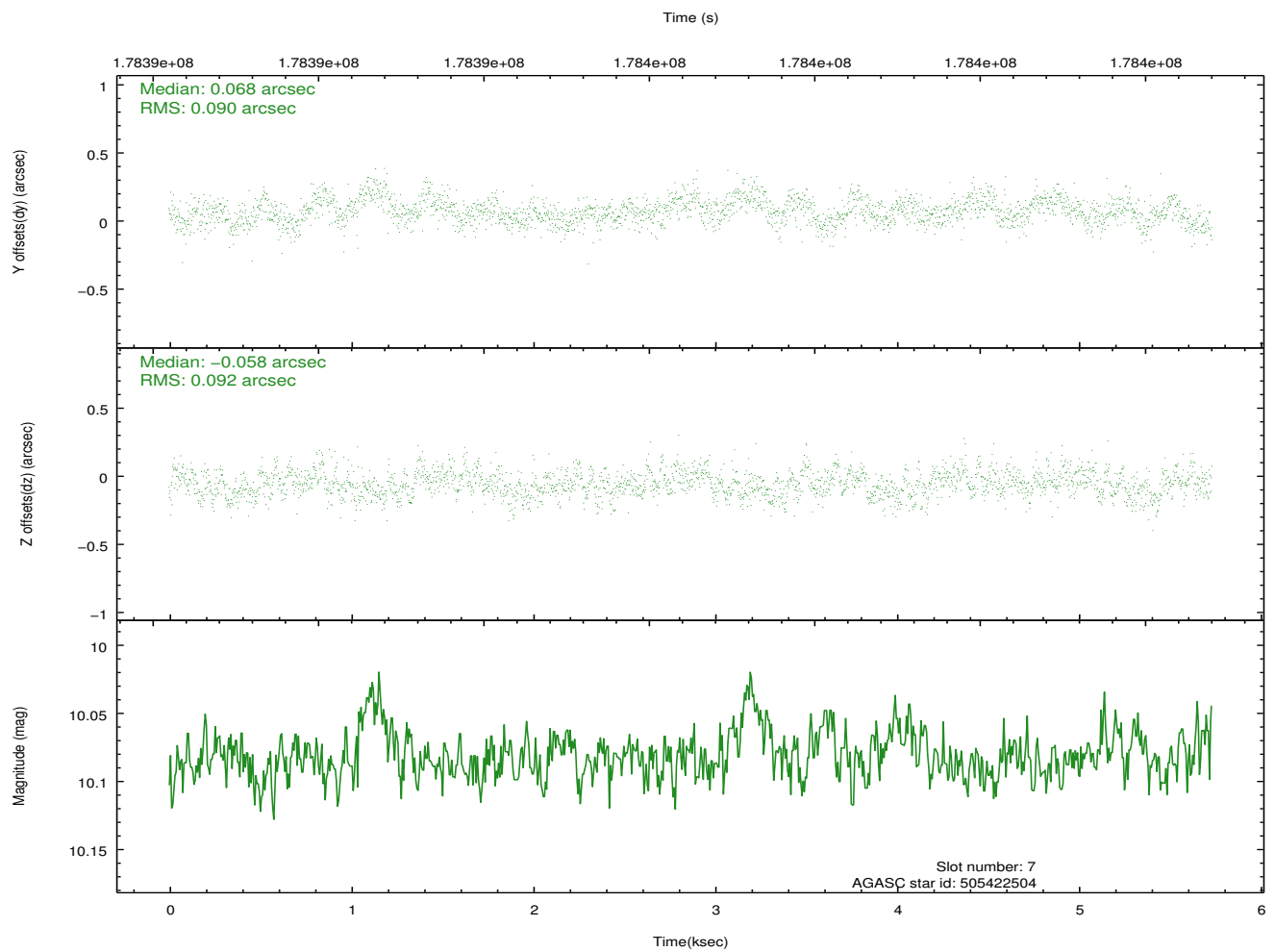
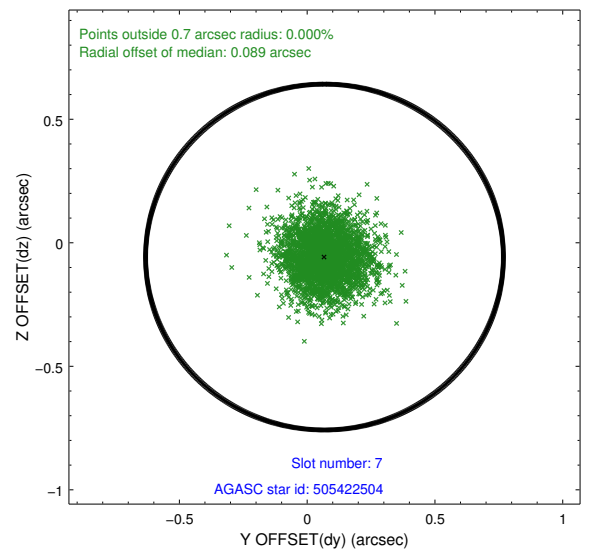
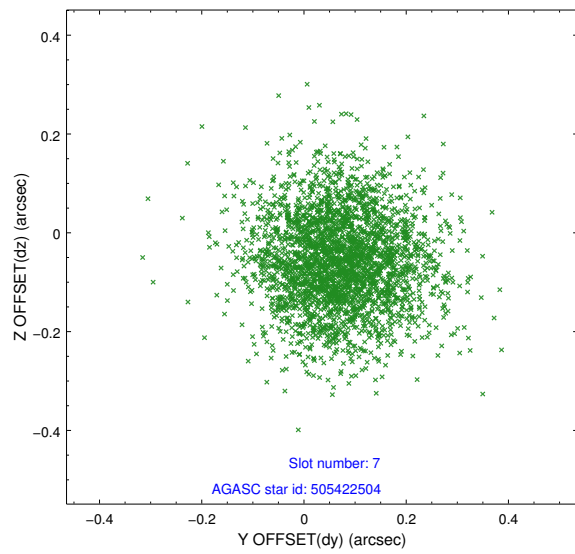
2.4.3 Slot 5



2.4.4 Slot 6

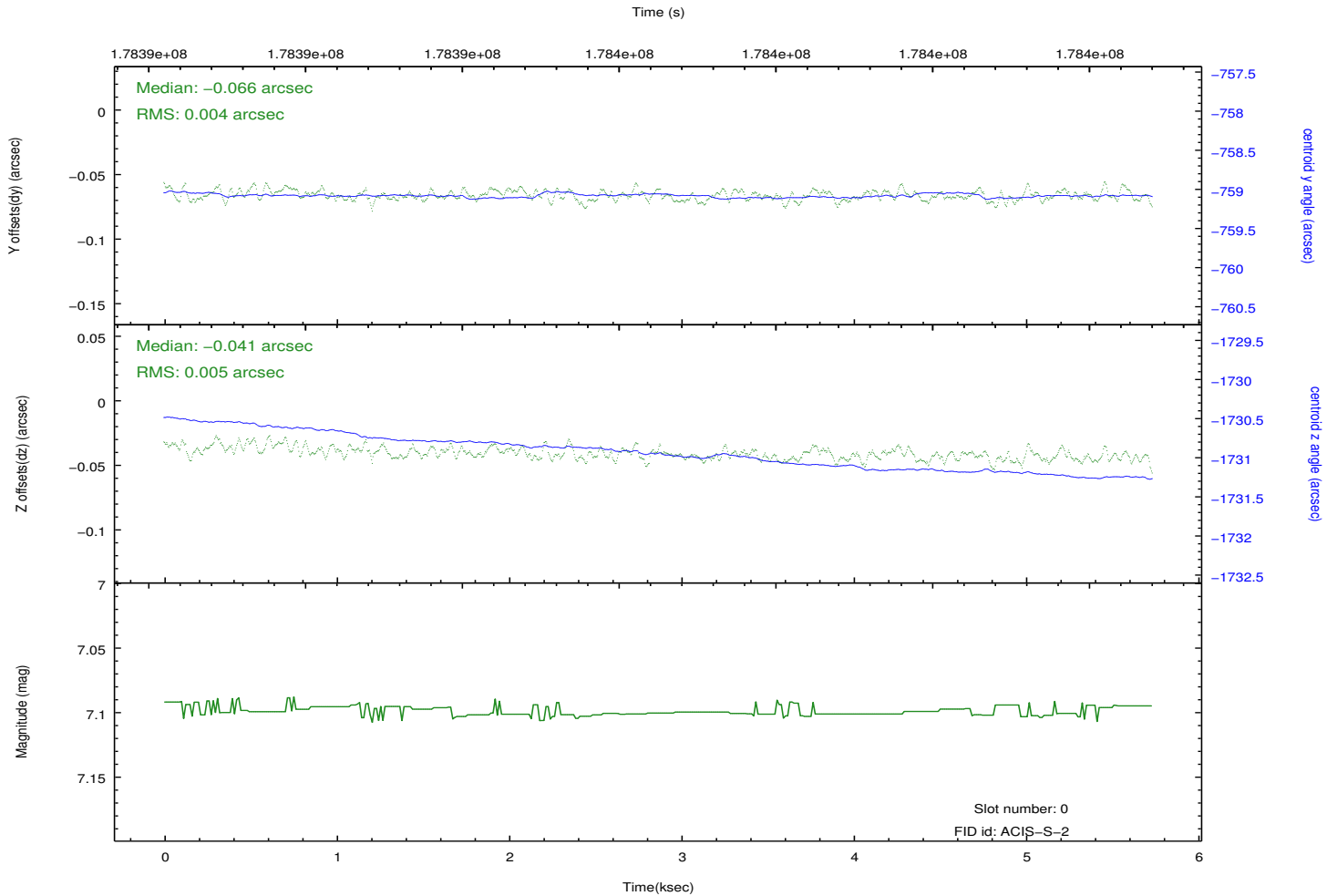
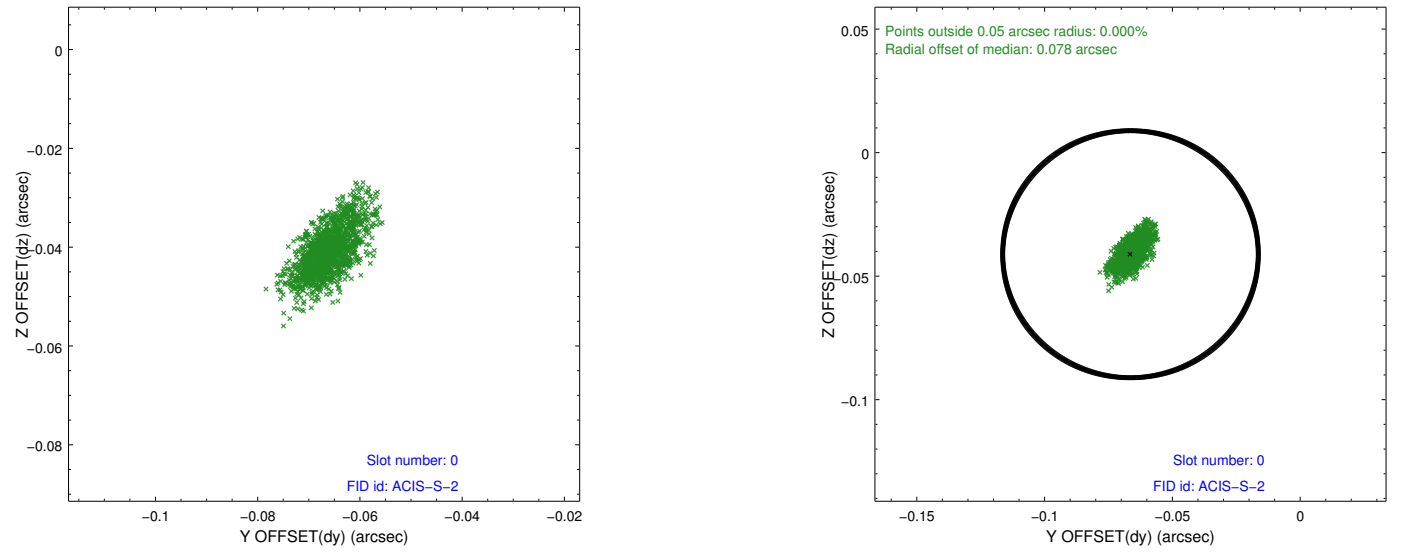


2.4.5 Slot 7

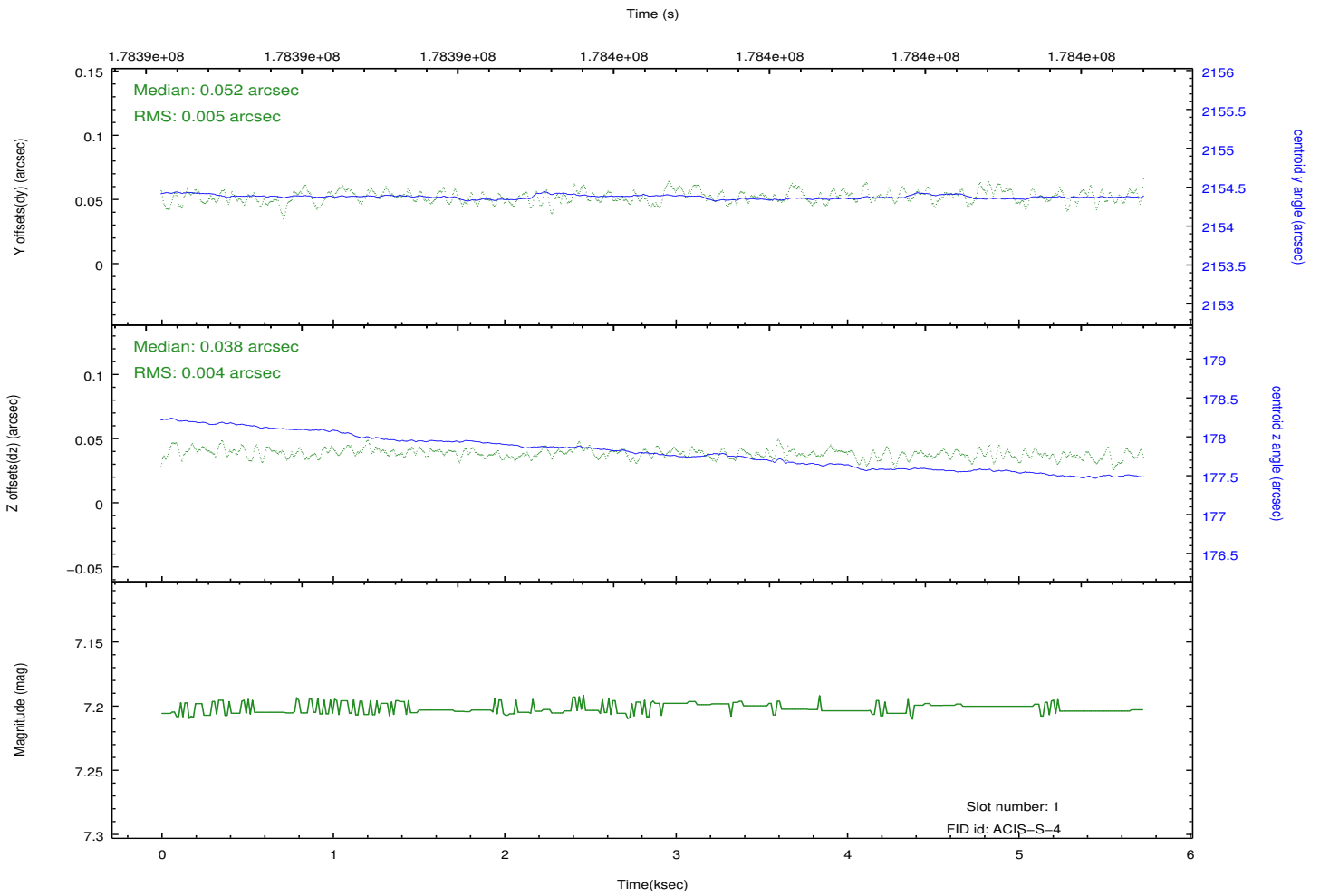
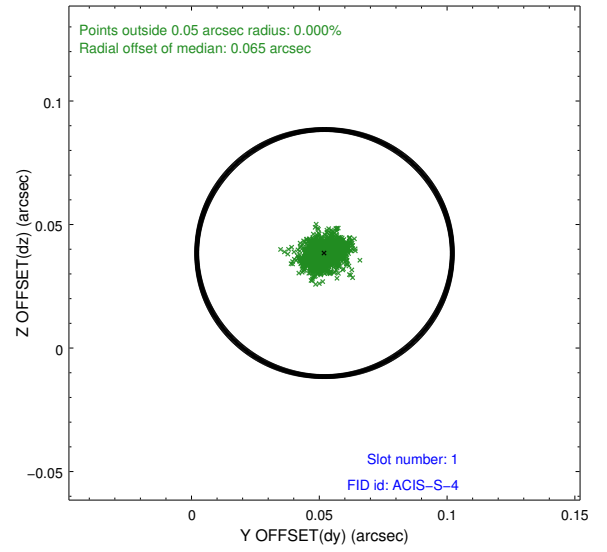
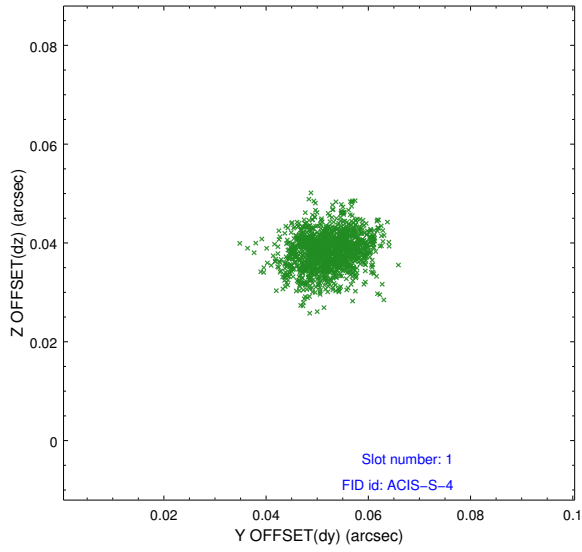


2.5 FID Slots

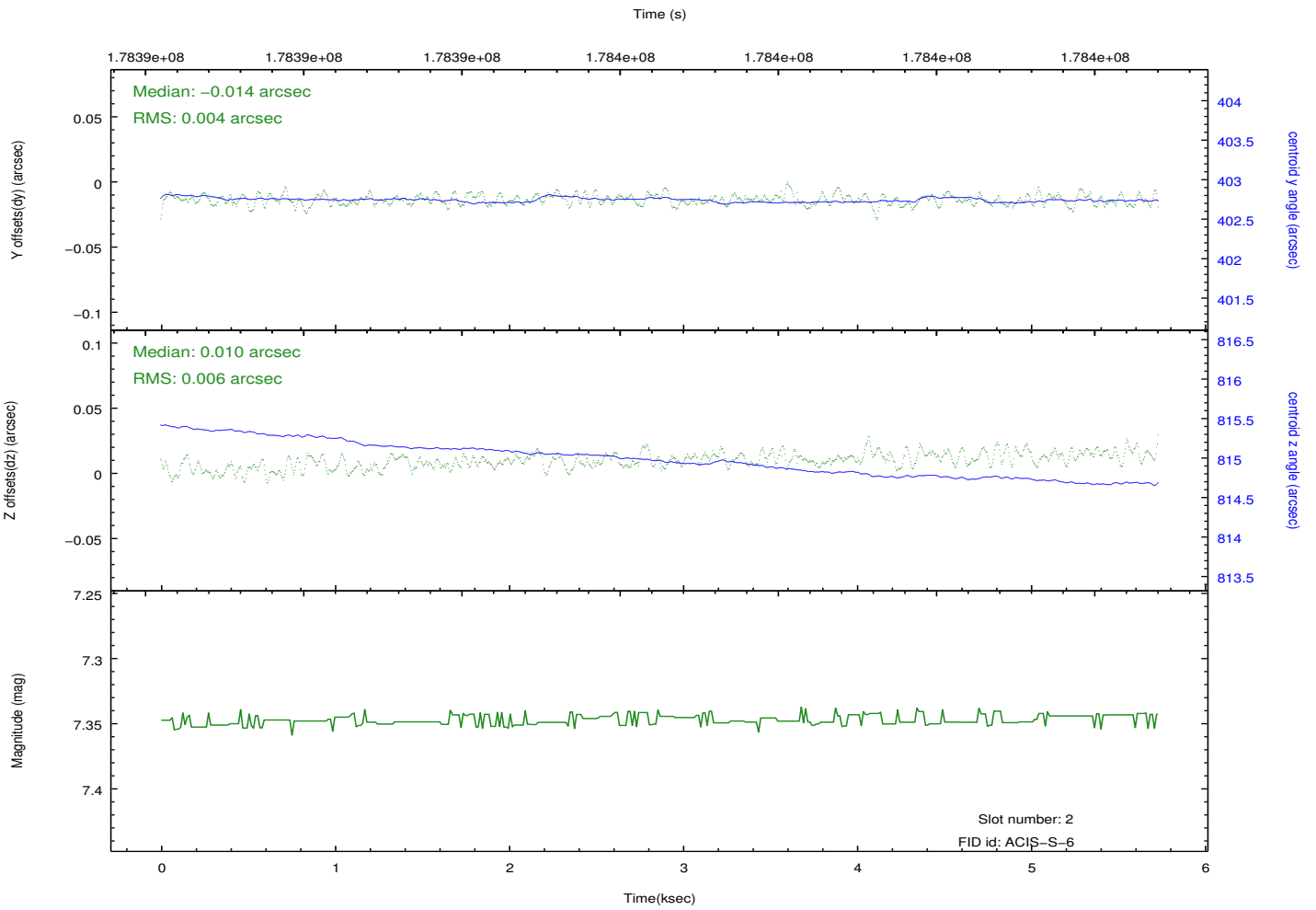
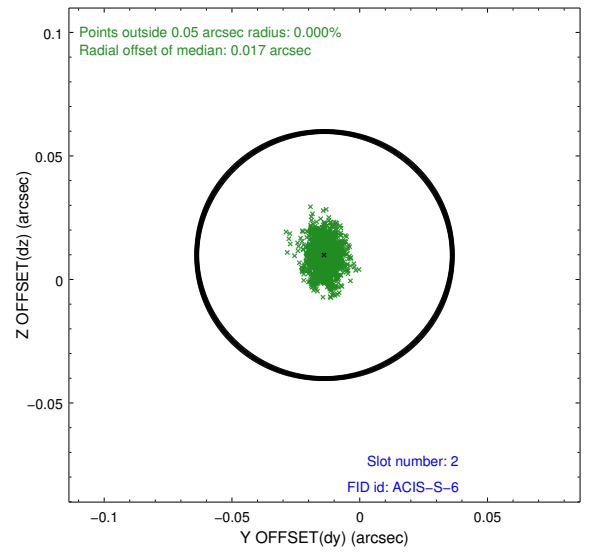
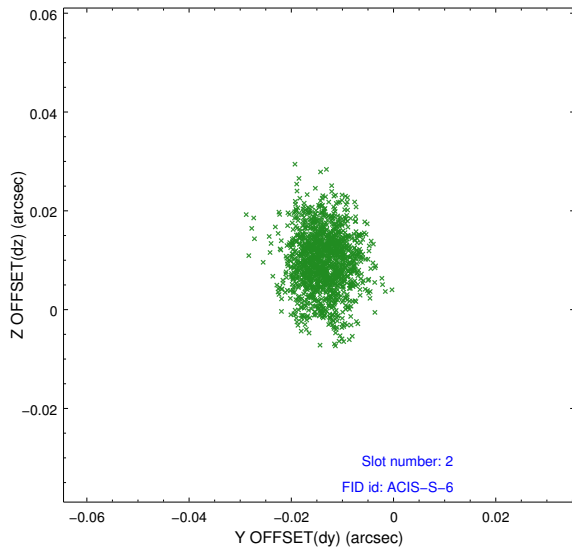
2.5.1 Slot 0



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)	2012.11.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.444

A.2 Comments