

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 13143 - L2 Version 2
Chandra X-Ray Center

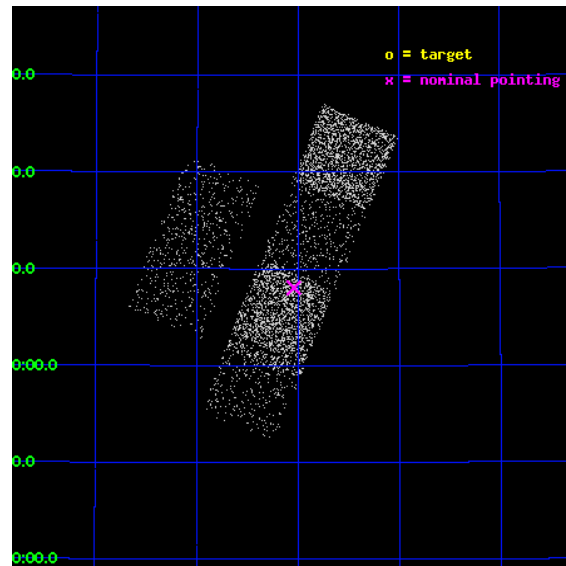
L2 Processing Date : Jul 5 2012

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1 Front

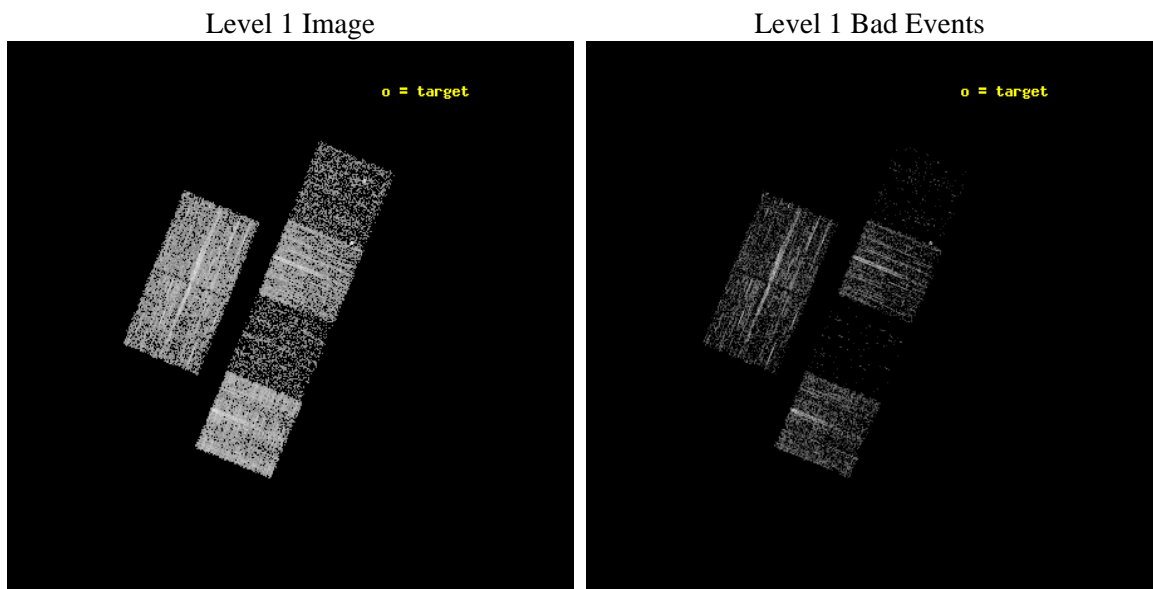
seq_num	100084	Sequence number
obs_id	13143	Observation id
title	Comet 103P/Hartley 2 During the EPOXI Spacecraft Encounter	Proposa
observer	Dr. Carey Lisse	Principal investigator
object	103P/Hartley 2	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	81.25	Observer's specified target RA [deg]
dec_targ	39.0	Observer's specified target Dec [deg]
ra_nom	74.510310791587	Nominal RA [deg]
dec_nom	45.133884171026	Nominal Dec [deg]
roll_nom	112.29224202041	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2755.1999897957	Sum of GTIs [s]
livetime	2720.3119885426	Livetime [s]
ontime2	2755.1999897957	Sum of GTIs [s]
ontime3	2755.1999897957	Sum of GTIs [s]
ontime5	2755.1999897957	Sum of GTIs [s]
ontime6	2755.1999897957	Sum of GTIs [s]
ontime7	2755.1999897957	Sum of GTIs [s]
ontime8	2742.2358887792	Sum of GTIs [s]
l2events	5235	Number of level 2 events



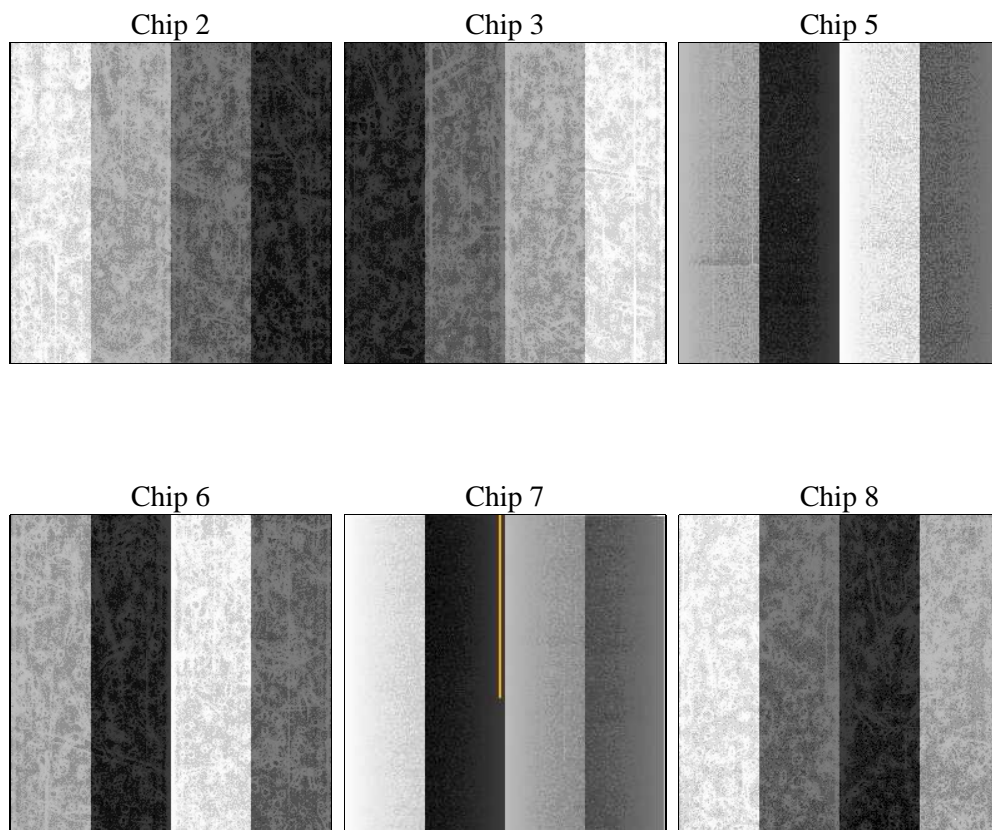
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	2755.1999897957	Sum of GTIs [s]
caldsver	4.5.0	 	ontime2	2755.1999897957	Sum of GTIs [s]
date	2012-07-05T05:26:27	Date and time of file creation	ontime3	2755.1999897957	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	2755.1999897957	Sum of GTIs [s]
			ontime6	2755.1999897957	Sum of GTIs [s]
			ontime7	2755.1999897957	Sum of GTIs [s]
			ontime8	2742.2358887792	Sum of GTIs [s]
			l1events	61555	Number of level 1 events

2.1.4 Events

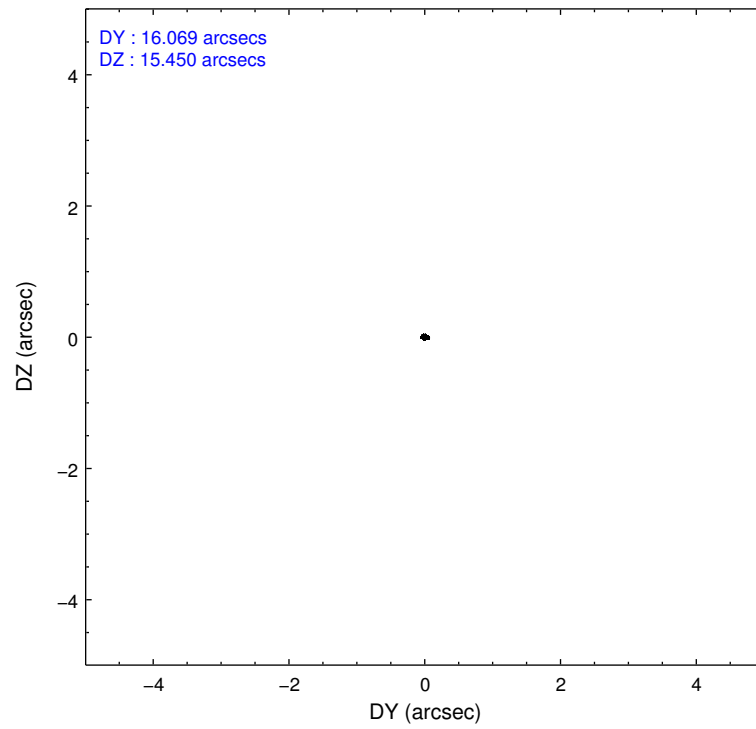
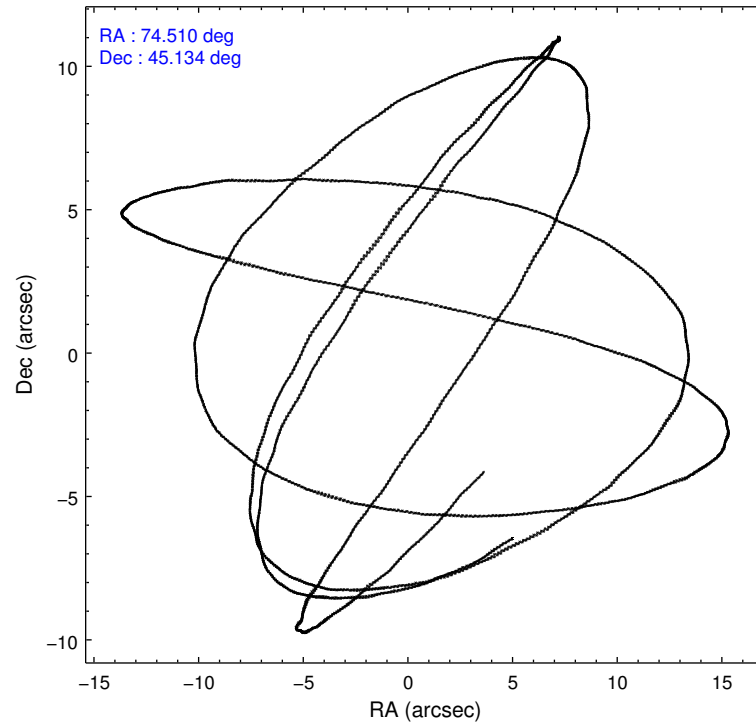
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	13749	11905	3588	12100	2638	17575
rejected events	13131	11499	1233	11515	636	12825
rejected %	95%	96%	34%	95%	24%	72%

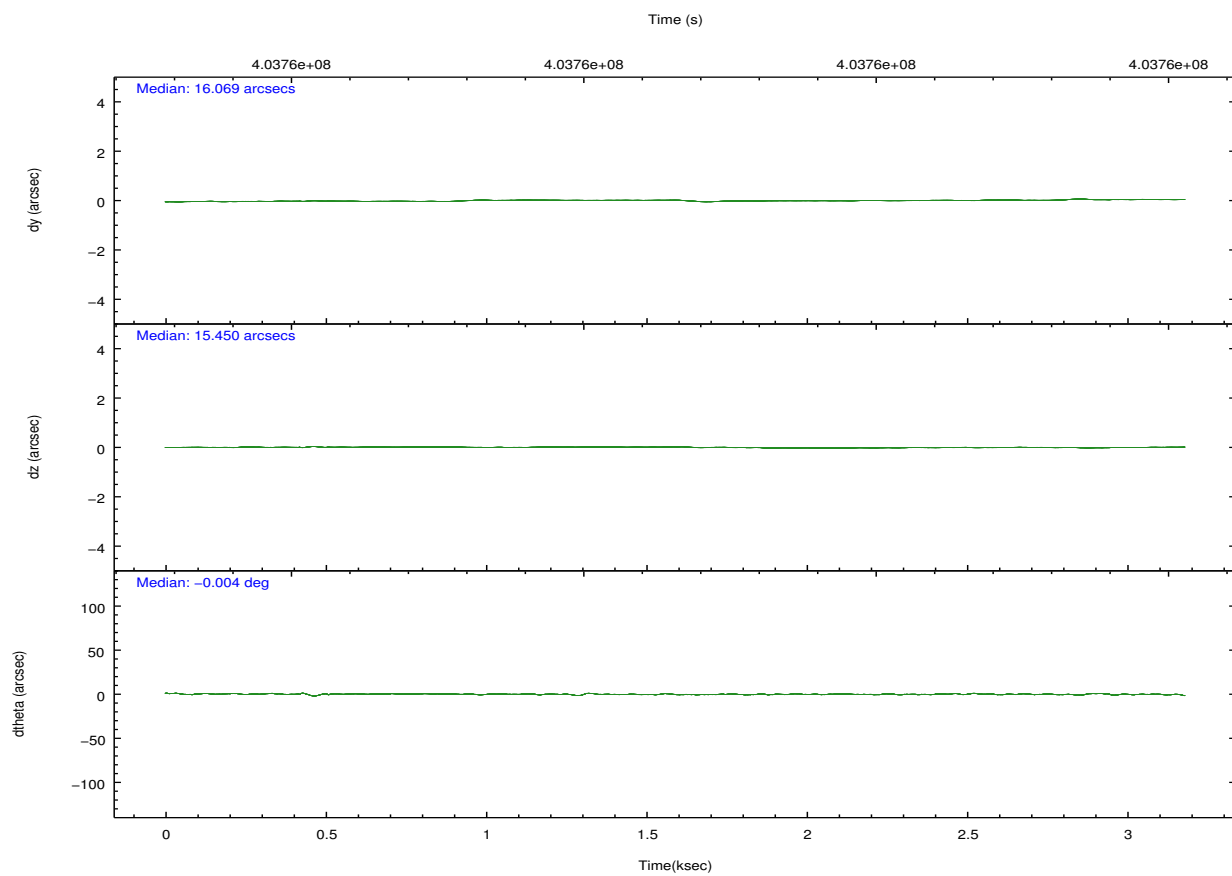
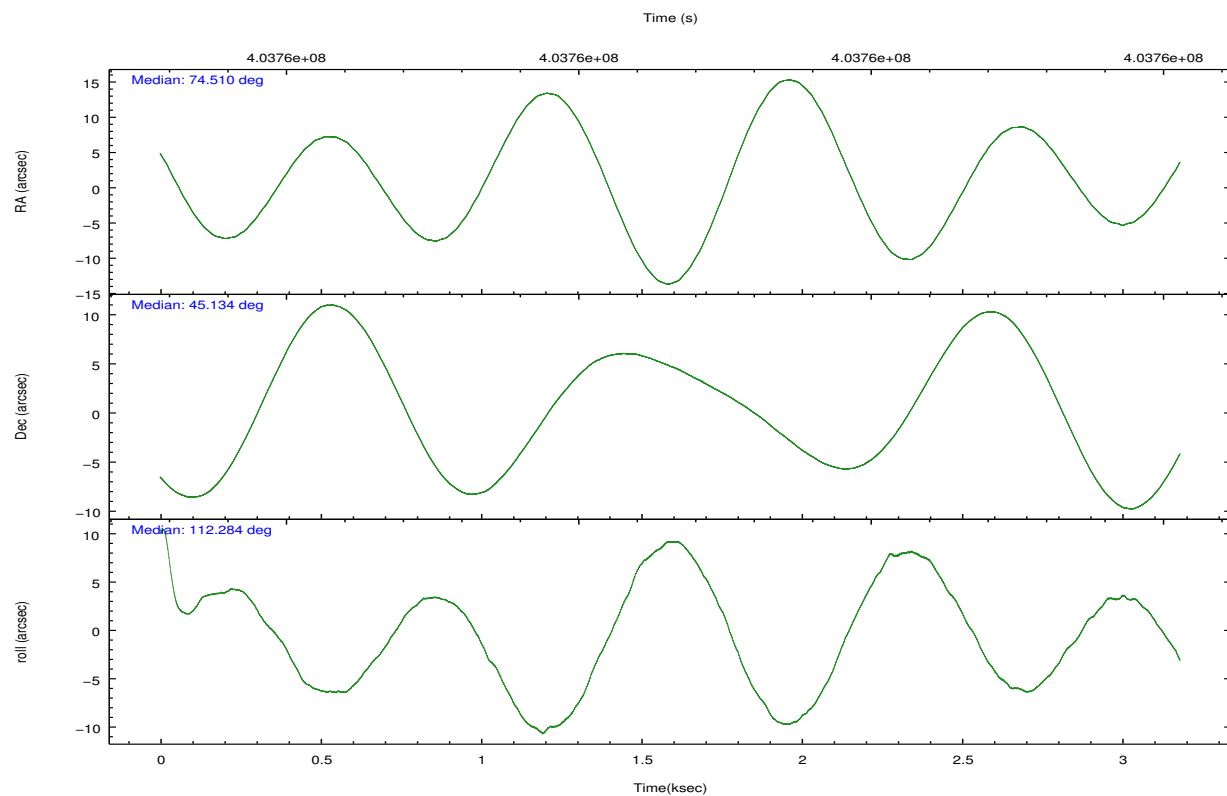
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	238	171	782	274	685	1230
	1%	1%	21%	2%	25%	6%
grade 1 events	3	0	103	3	19	19
	0%	0%	2%	0%	0%	0%
grade 2 events	170	63	865	117	673	1123
	1%	0%	24%	0%	25%	6%
grade 3 events	76	77	229	83	242	547
	0%	0%	6%	0%	9%	3%
grade 4 events	72	62	202	69	224	512
	0%	0%	5%	0%	8%	2%
grade 5 events	17	15	251	4	85	91
	0%	0%	6%	0%	3%	0%
grade 6 events	62	36	278	45	182	1347
	0%	0%	7%	0%	6%	7%
grade 7 events	13111	11481	878	11505	528	12706
	95%	96%	24%	95%	20%	72%

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	74.541478	74.51031079158729	Subarray requested	NONE	NONE
[deg] Pointing Dec	45.117628	45.13388417102565	Alternating exposures requested	N	N
[deg] Pointing Roll	112.113514	112.2922420204116	[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)	403757906.184000	403757530.88914			
Observation start date	2010-10-18T02:57:20	2010-10-18T02:52:10			
[s] Observation end time (MET)	403760906.184000	403761040.48932			
Observation end date	2010-10-18T03:47:20	2010-10-18T03:50:40			
Read mode	TIMED	TIMED			

2.3 Aspect



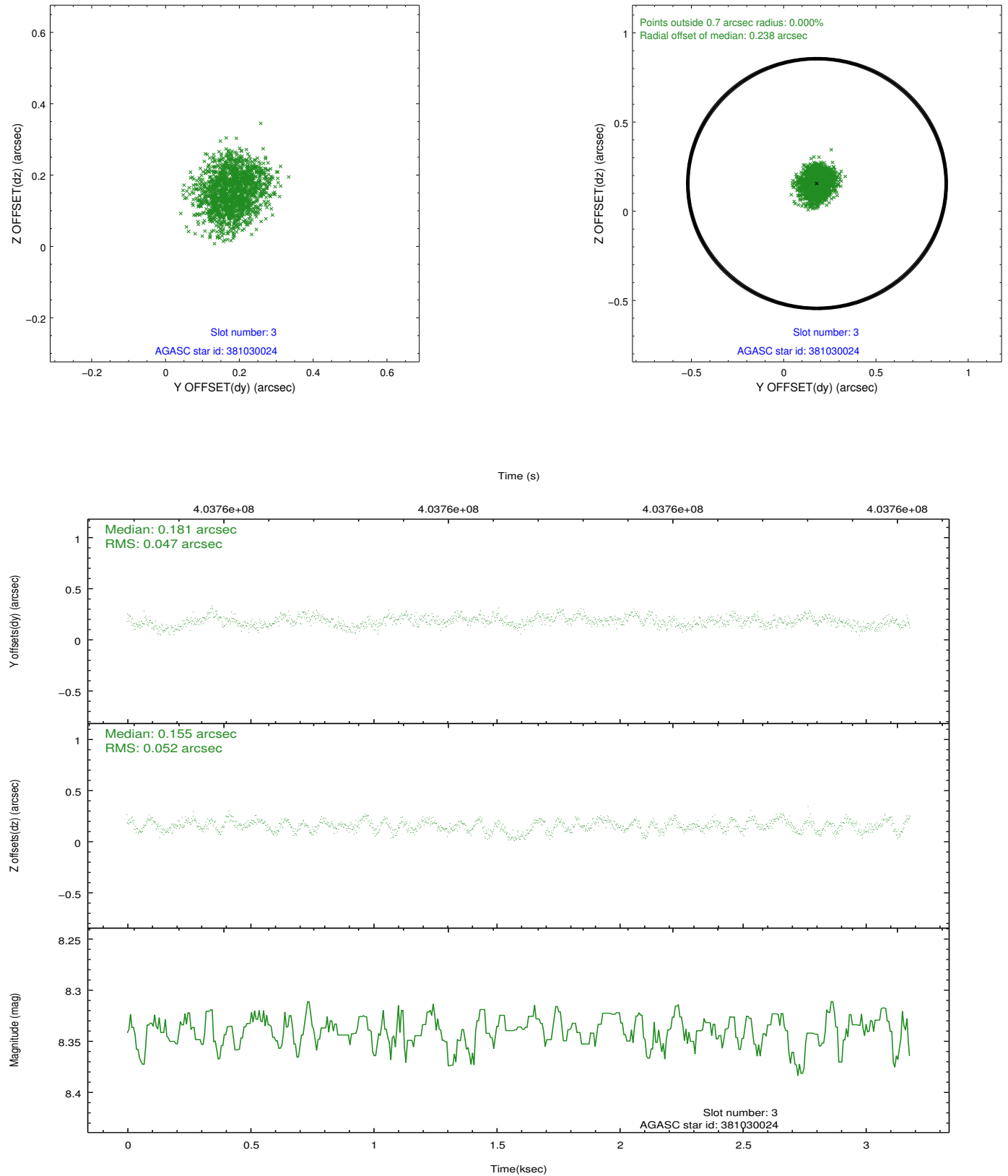


Slot Statistics

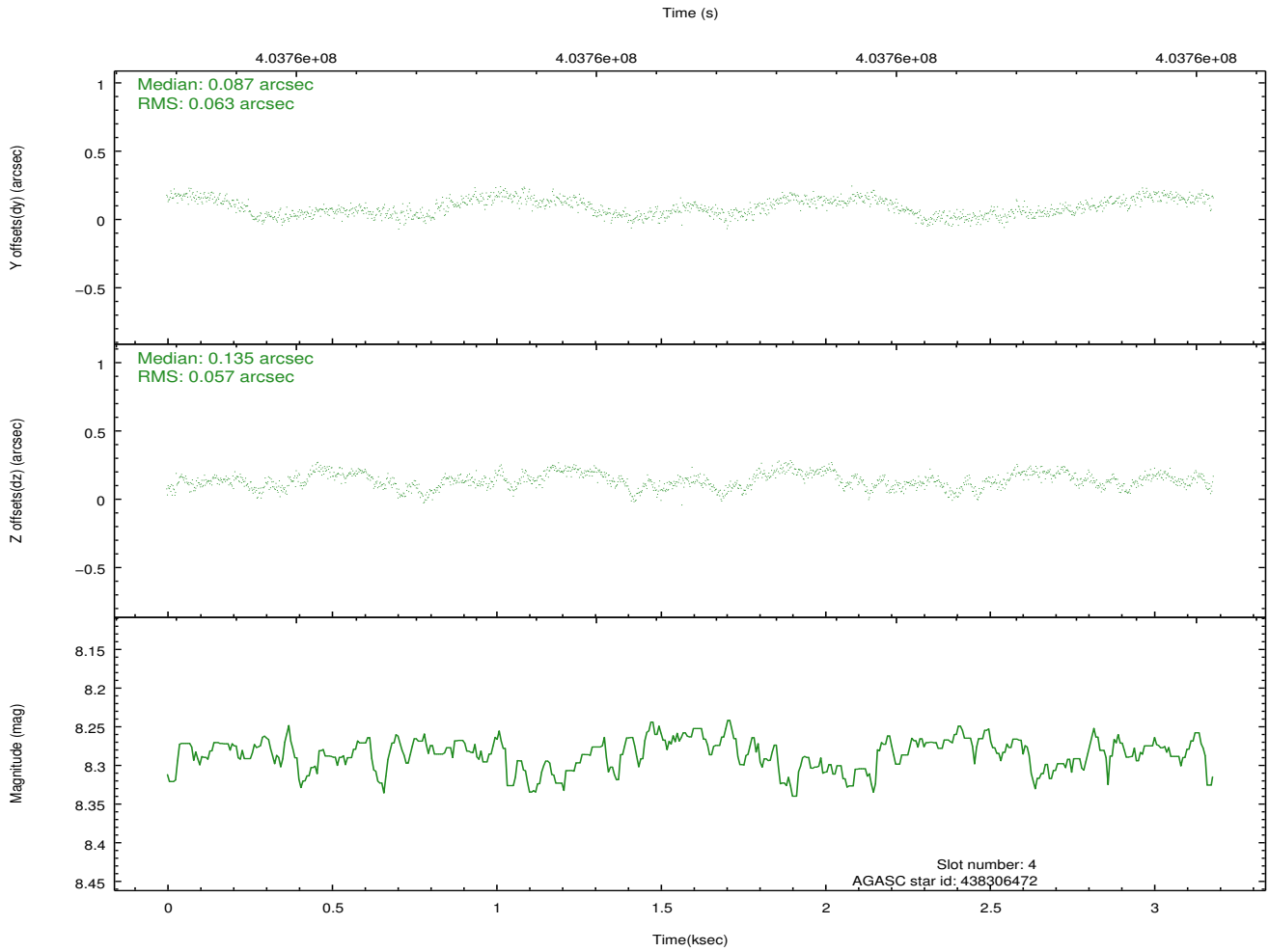
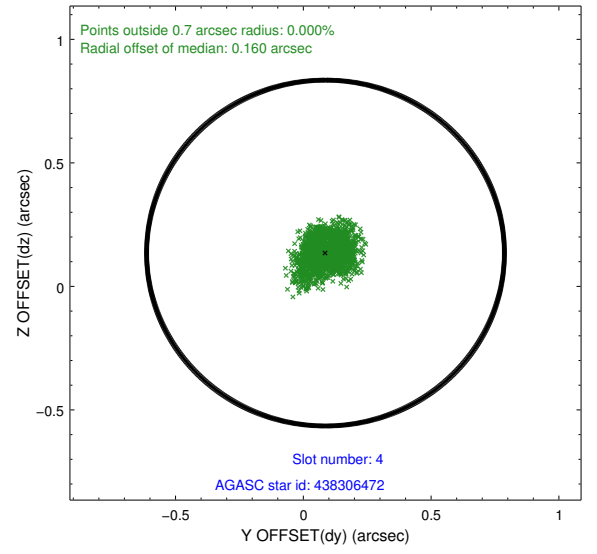
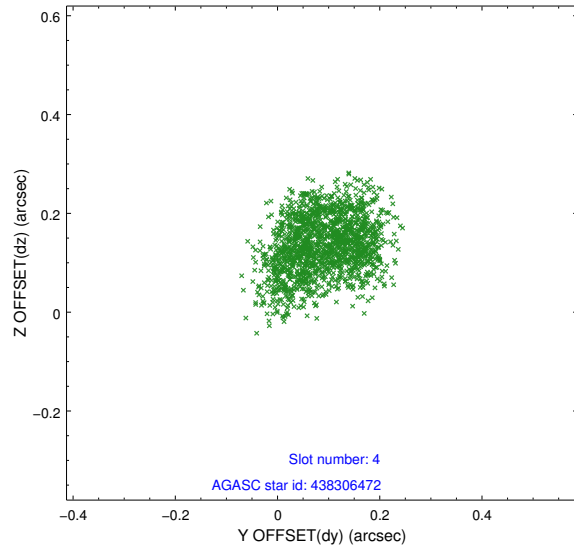
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.94	775	-0.109	-0.069	0.006	0.013	0.000000	0.000000	-769.18	-1736.90
1	FID	ACIS-S-4	7.03	776	0.143	0.048	0.006	0.011	0.000000	0.000000	2143.44	169.60
2	FID	ACIS-S-6	7.16	775	-0.062	0.028	0.008	0.014	0.000000	0.000000	395.43	809.26
3	GUIDE	381030024	8.34	1553	0.181	0.155	0.077	0.116	75.061936	44.874027	-1307.75	-902.11
4	GUIDE	438306472	8.29	1553	0.087	0.135	0.092	0.142	75.140877	45.253790	-112.56	-1594.48
5	GUIDE	438314176	8.40	1551	-0.008	0.297	0.088	0.132	75.326509	45.446275	359.58	-2287.03
6	GUIDE	438314928	8.63	1551	-0.100	-0.243	0.068	0.110	73.874149	45.276809	1172.86	1345.13
7	GUIDE	438315504	8.56	1548	-0.160	-0.345	0.085	0.137	73.821517	45.156819	827.00	1637.29

2.4 Star Slots

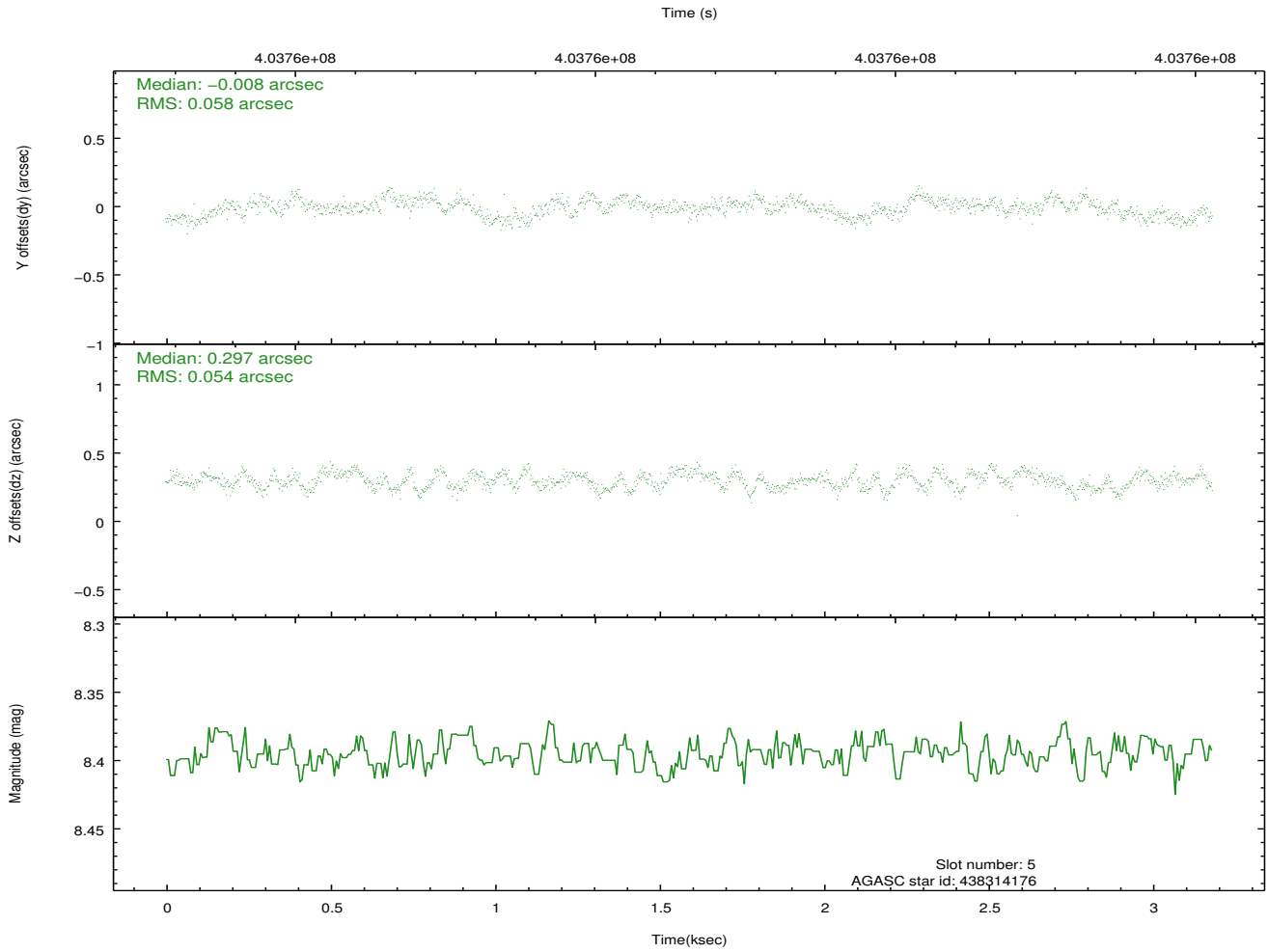
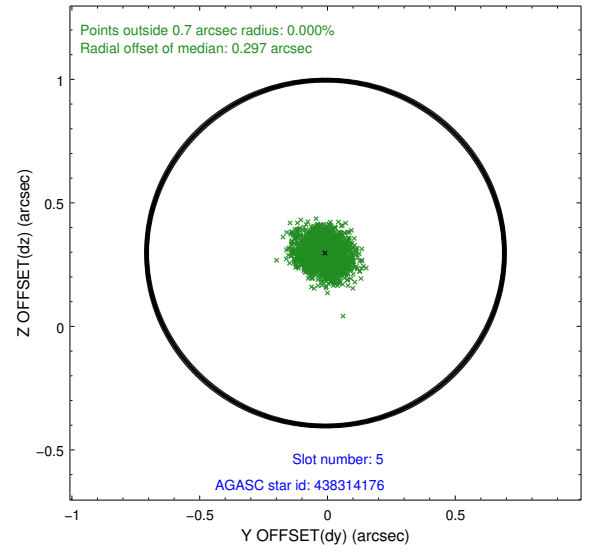
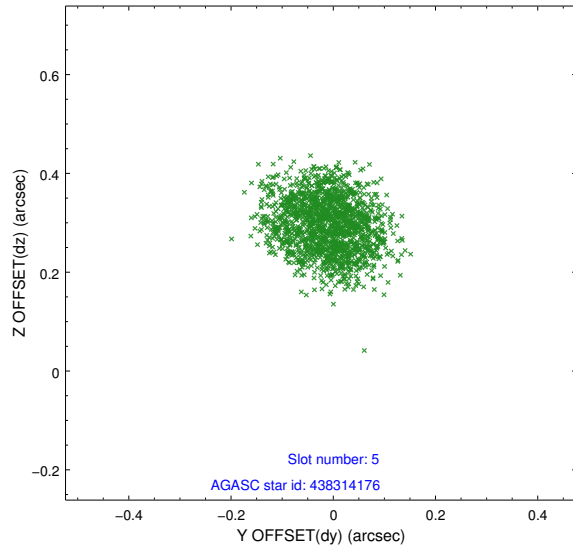
2.4.1 Slot 3



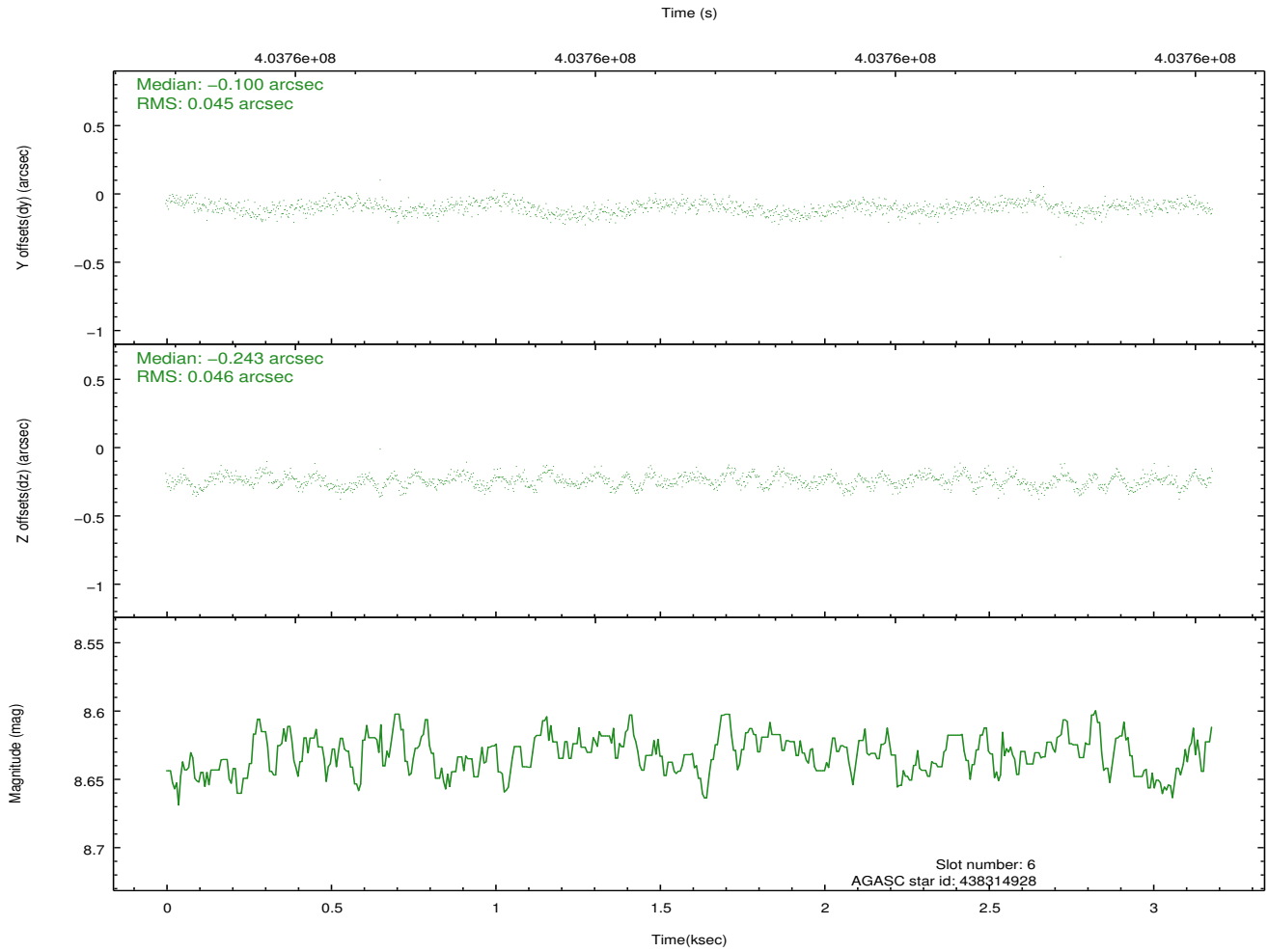
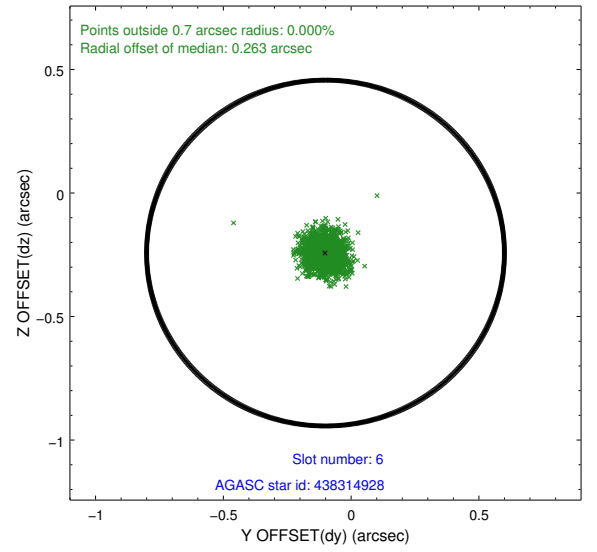
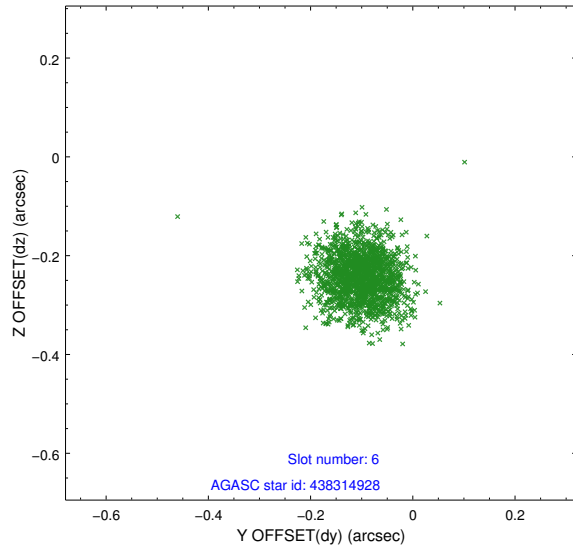
2.4.2 Slot 4



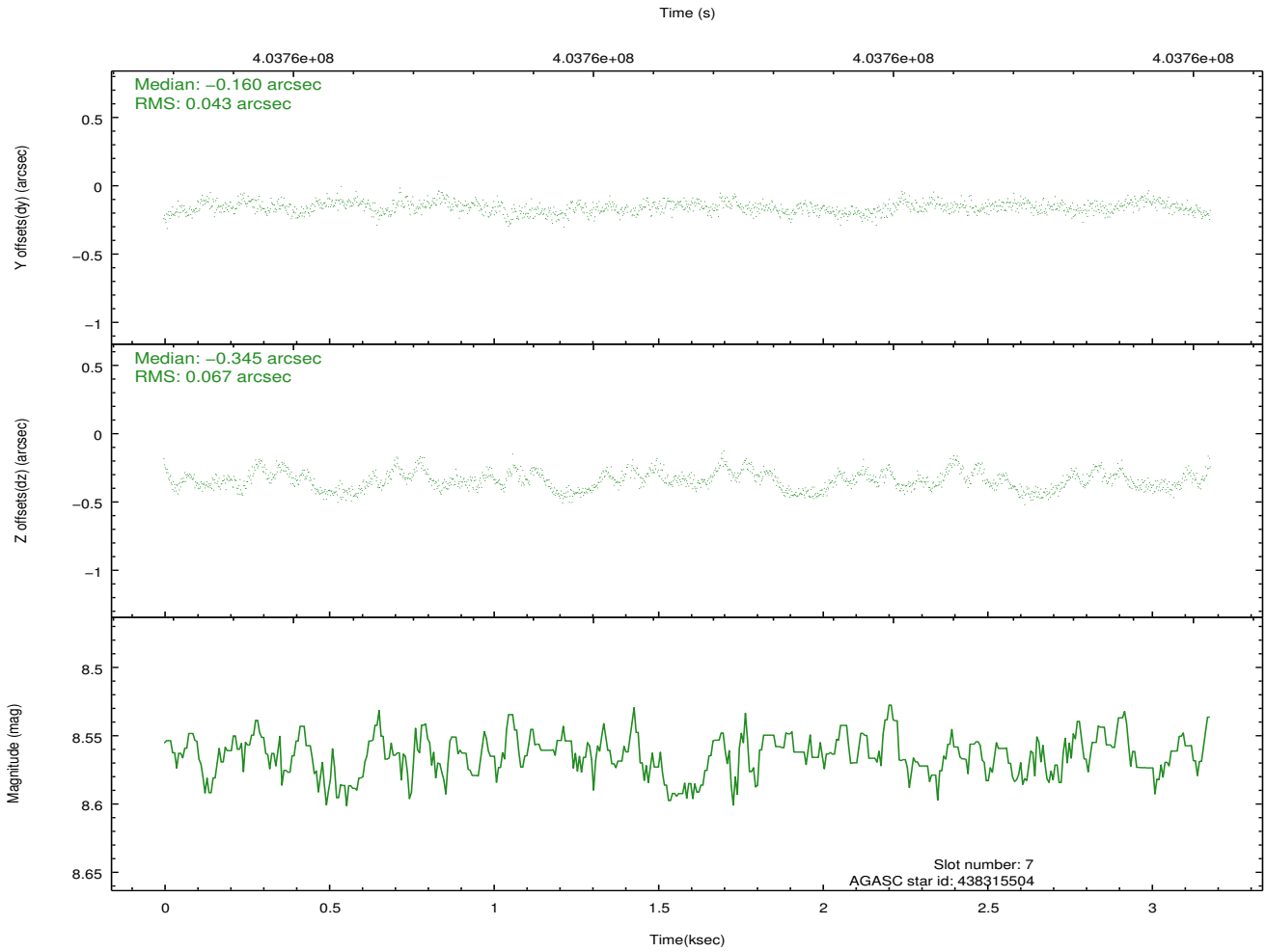
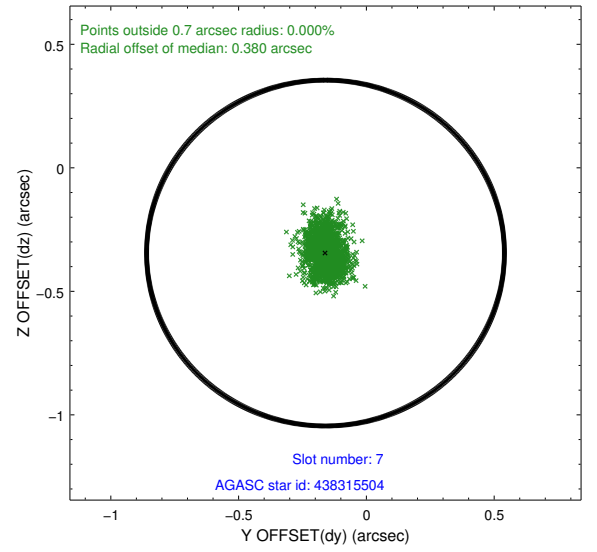
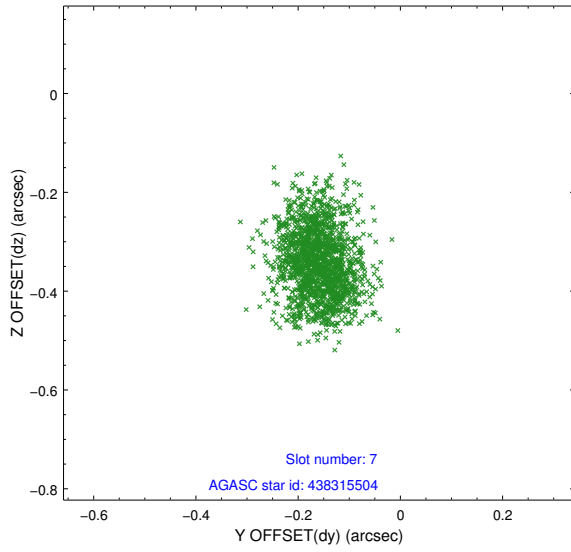
2.4.3 Slot 5



2.4.4 Slot 6

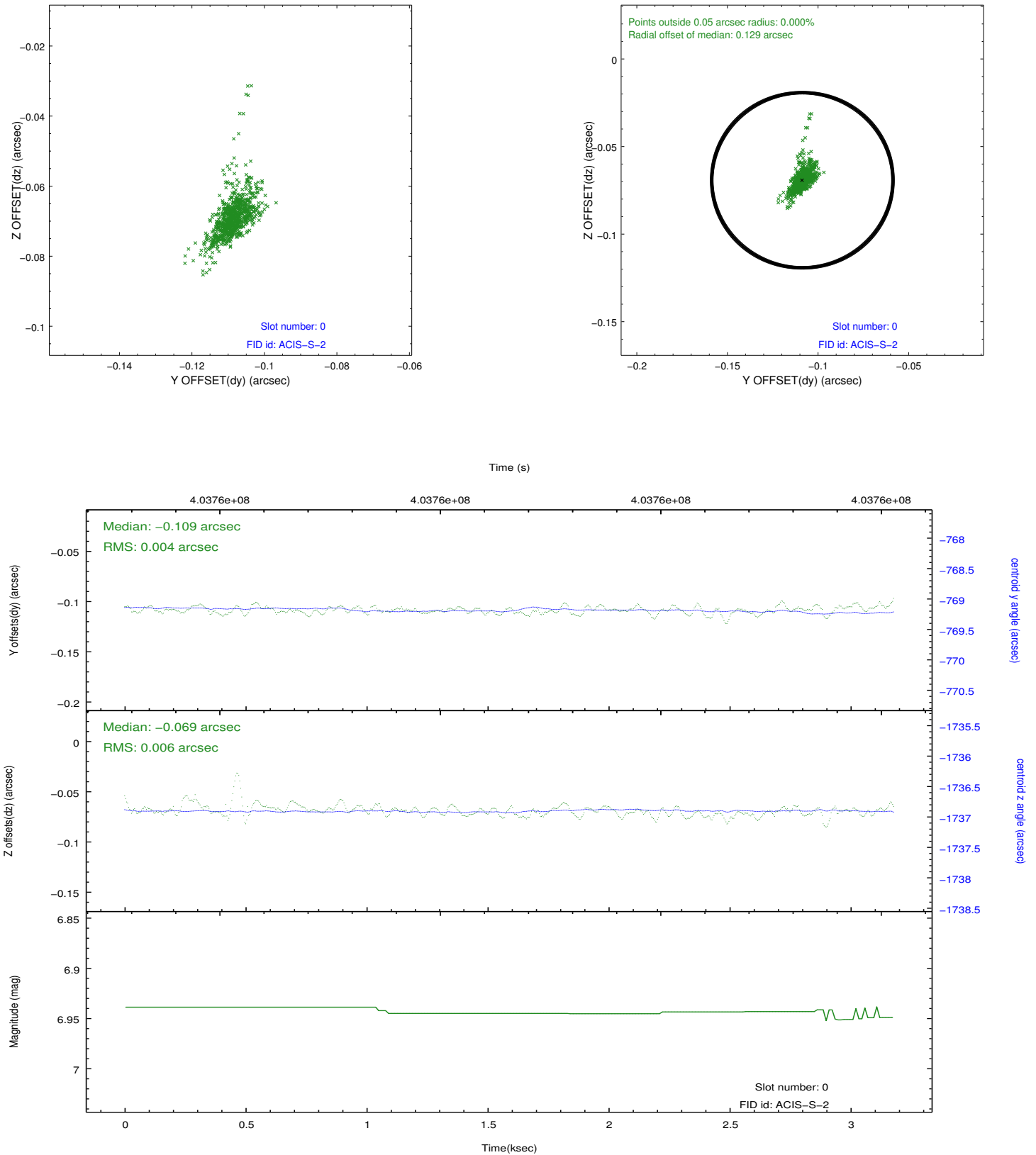


2.4.5 Slot 7

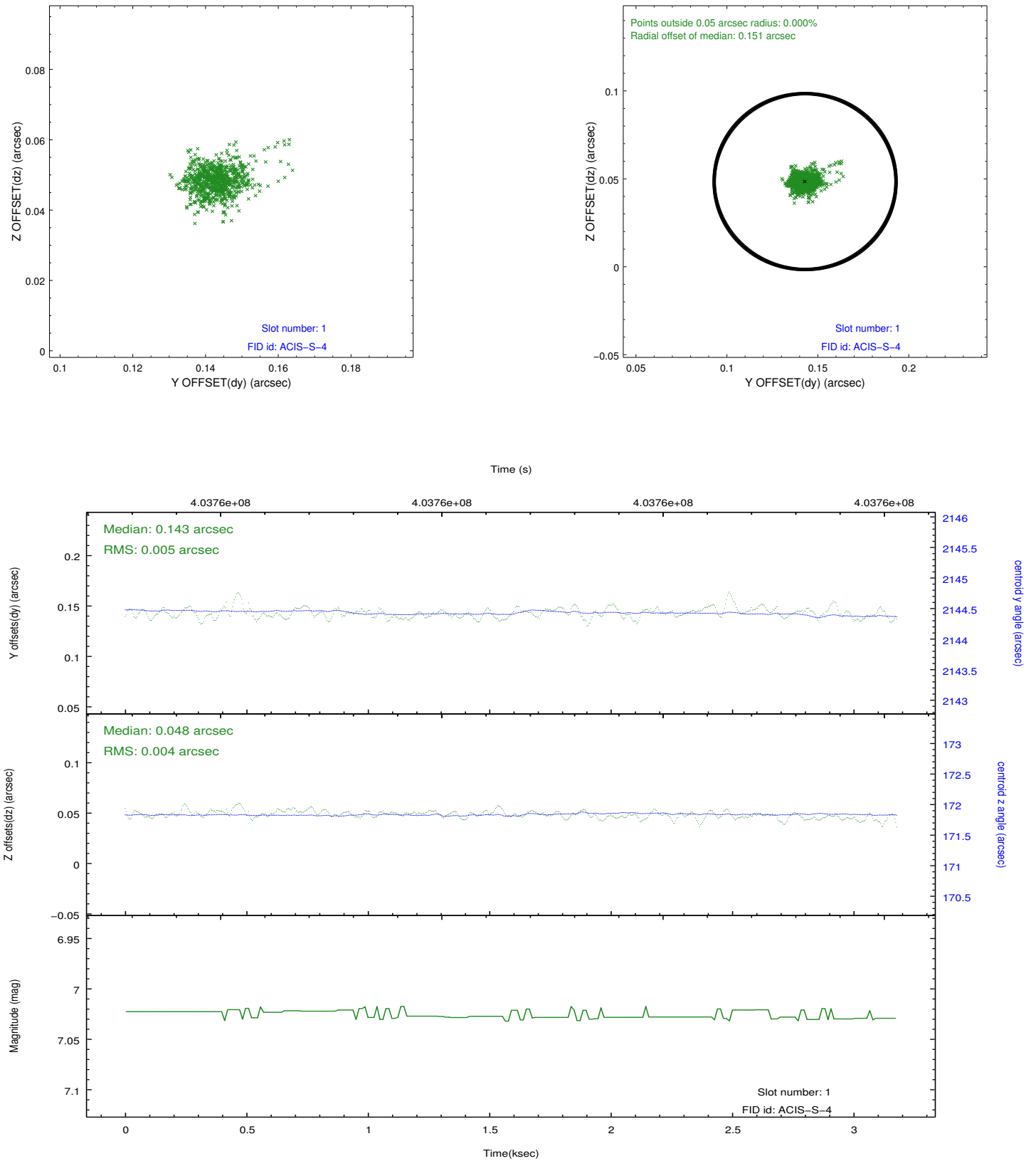


2.5 FID Slots

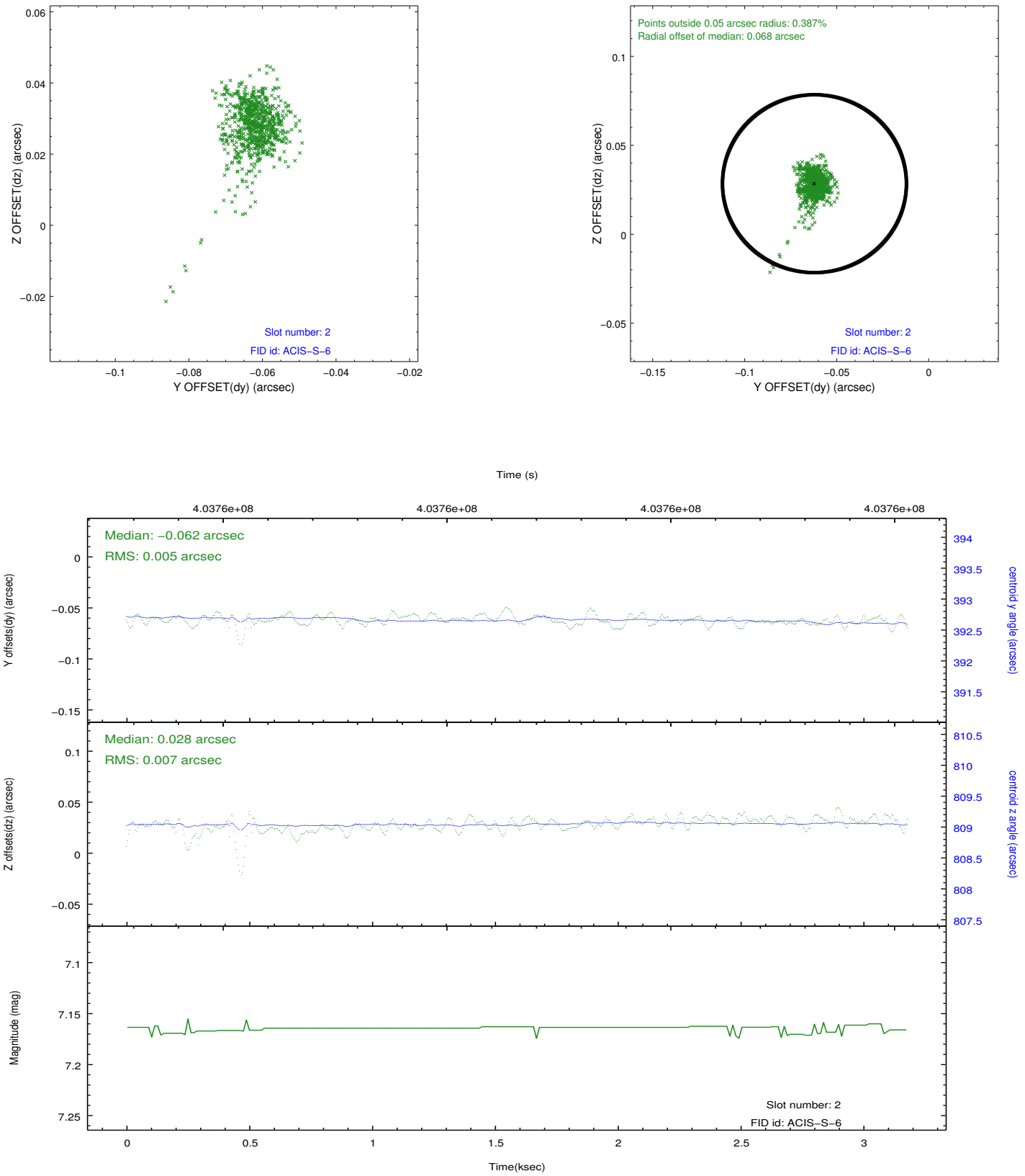
2.5.1 Slot 0



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)	2012.07.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.7551999897957

A.2 Comments

This is a moving target. Users will need to run `sso_freeze` or similar software to position the events in the reference frame of the comet.