

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 586 - L2 Version 4
Chandra X-Ray Center

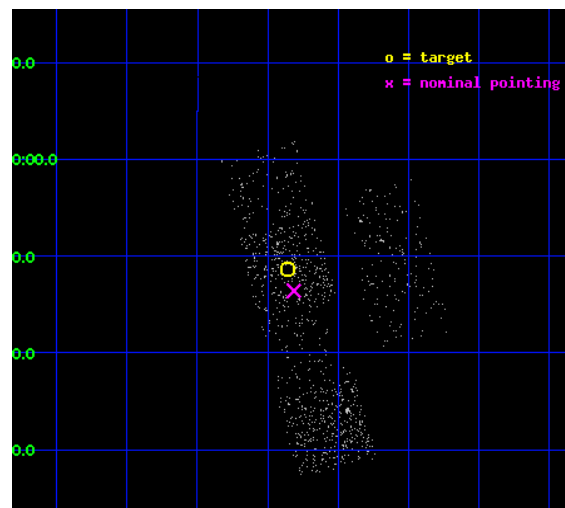
L2 Processing Date : Aug 31 2012

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

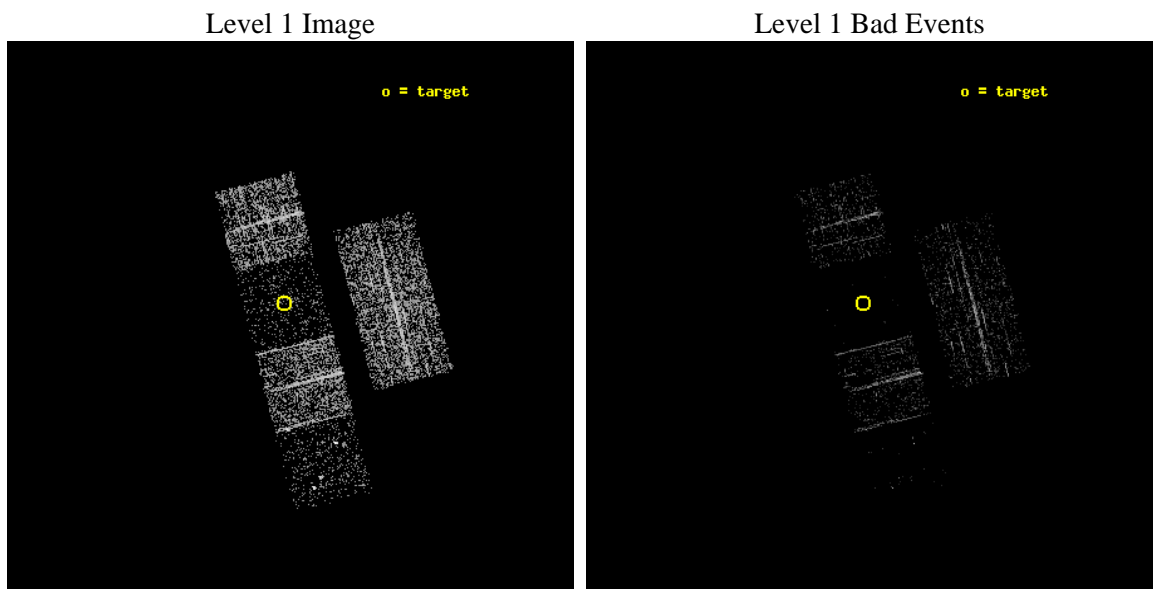
seq_num	100004	Sequence number
obs_id	586	Observation id
title	AXAF LOW ENERGY SPECTROSCOPY AND PHOTOMETRIC IMAGING OF COMETARY X-RAY EMISSION FROM COMET P/TEMPEL 2	Proposal title
observer	Dr. Carey Lisse	Principal investigator
object	Comet c/LINEAR 1999 S4	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	182.46482	Observer's specified target RA [deg]
dec_targ	10.81025	Observer's specified target Dec [deg]
ra_nom	182.45347722403	Nominal RA [deg]
dec_nom	10.773738905894	Nominal Dec [deg]
roll_nom	255.84875686065	Nominal Roll [deg]
revision	4	Processing version of data
ontime	958.54966630042	Sum of GTIs [s]
livetime	946.4119332564	Livetime [s]
ontime2	958.59070630372	Sum of GTIs [s]
ontime3	958.42654630542	Sum of GTIs [s]
ontime5	958.50862629712	Sum of GTIs [s]
ontime6	958.46758630872	Sum of GTIs [s]
ontime7	958.54966630042	Sum of GTIs [s]
ontime8	958.38550630212	Sum of GTIs [s]
l2events	1168	Number of level 2 events



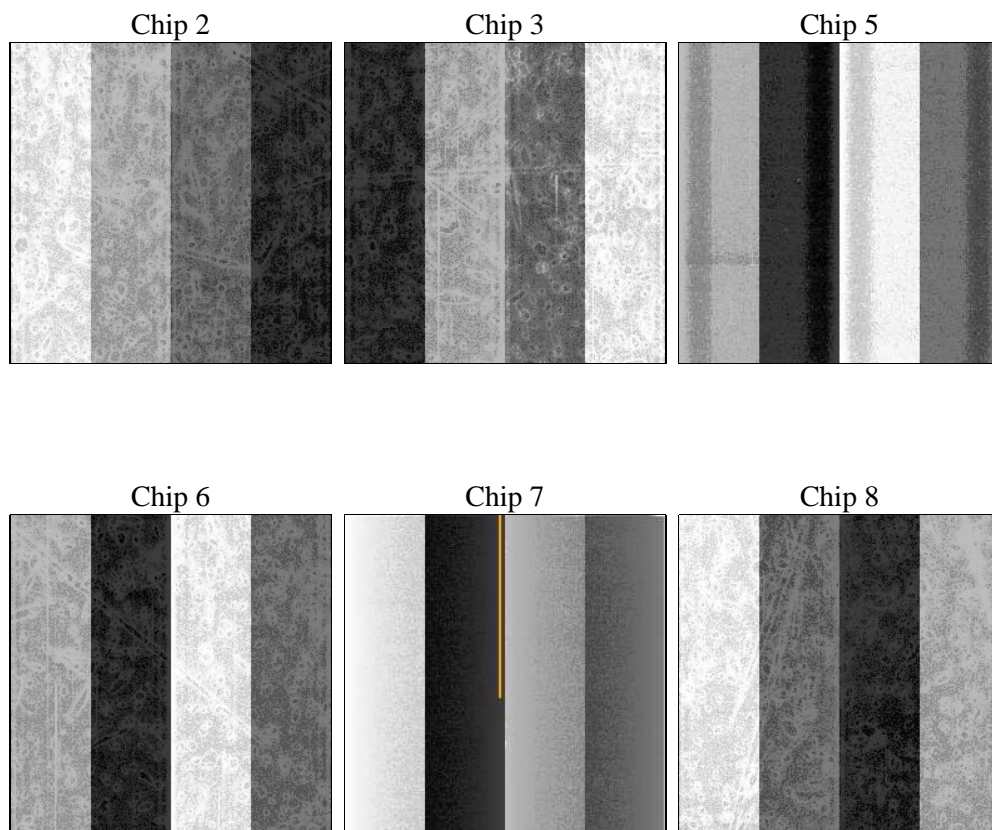
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	1000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	958.54966630042	Sum of GTIs [s]
caldsver	4.5.1.1	 	ontime2	958.59070630372	Sum of GTIs [s]
date	2012-08-31T12:00:57	Date and time of file creation	ontime3	958.42654630542	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	958.50862629712	Sum of GTIs [s]
			ontime6	958.46758630872	Sum of GTIs [s]
			ontime7	958.54966630042	Sum of GTIs [s]
			ontime8	958.38550630212	Sum of GTIs [s]
			l1events	18506	Number of level 1 events

2.1.4 Events

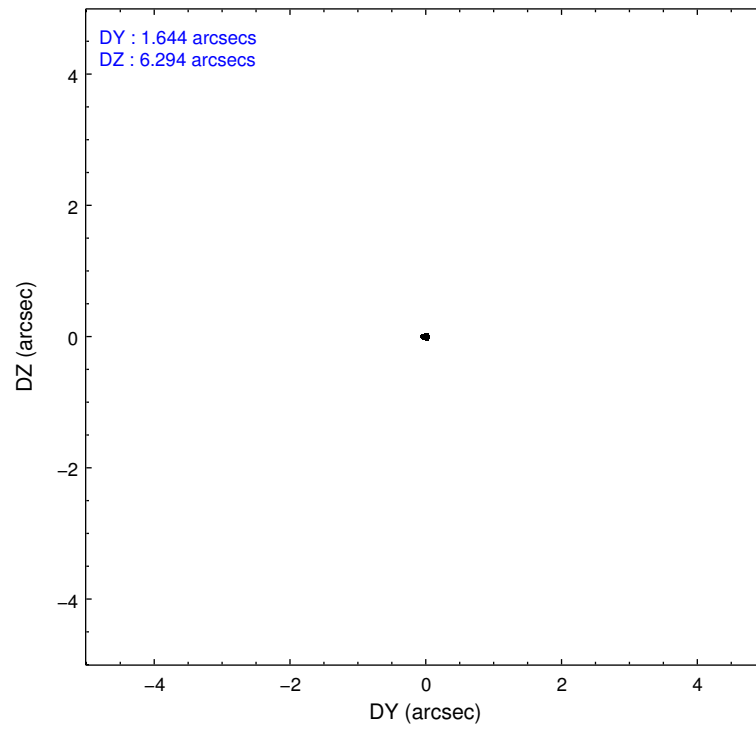
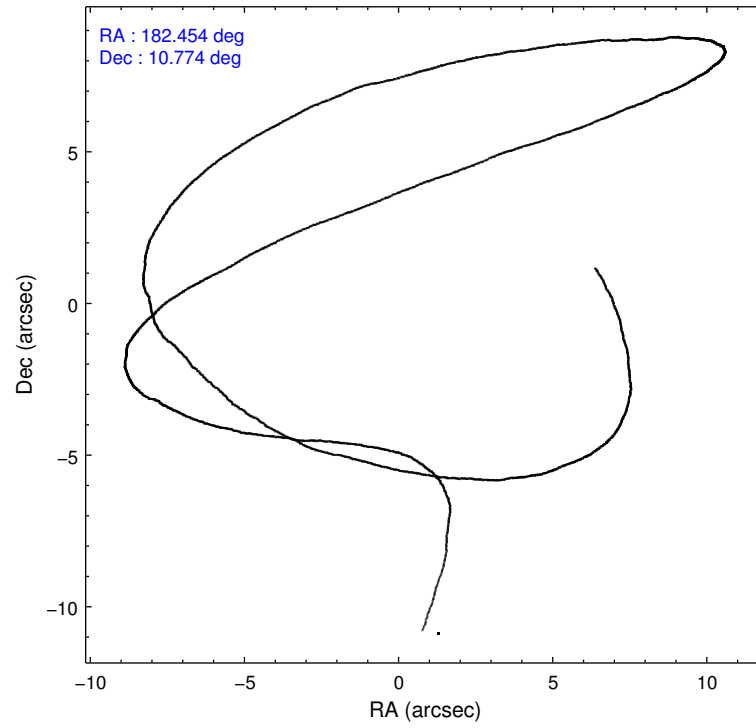
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	4560	3665	1156	4177	525	4423
rejected events	4391	3538	245	4033	120	3561
rejected %	96%	96%	21%	96%	22%	80%

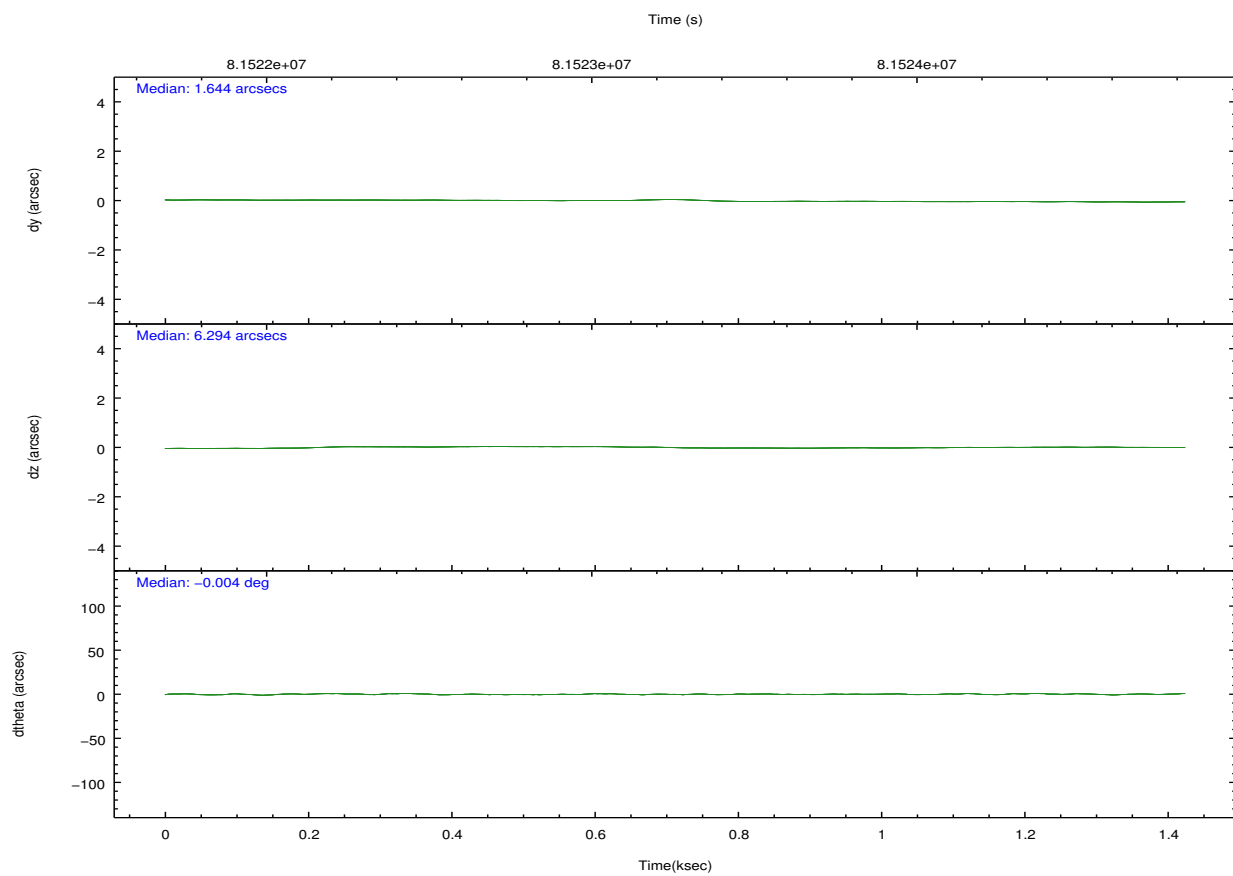
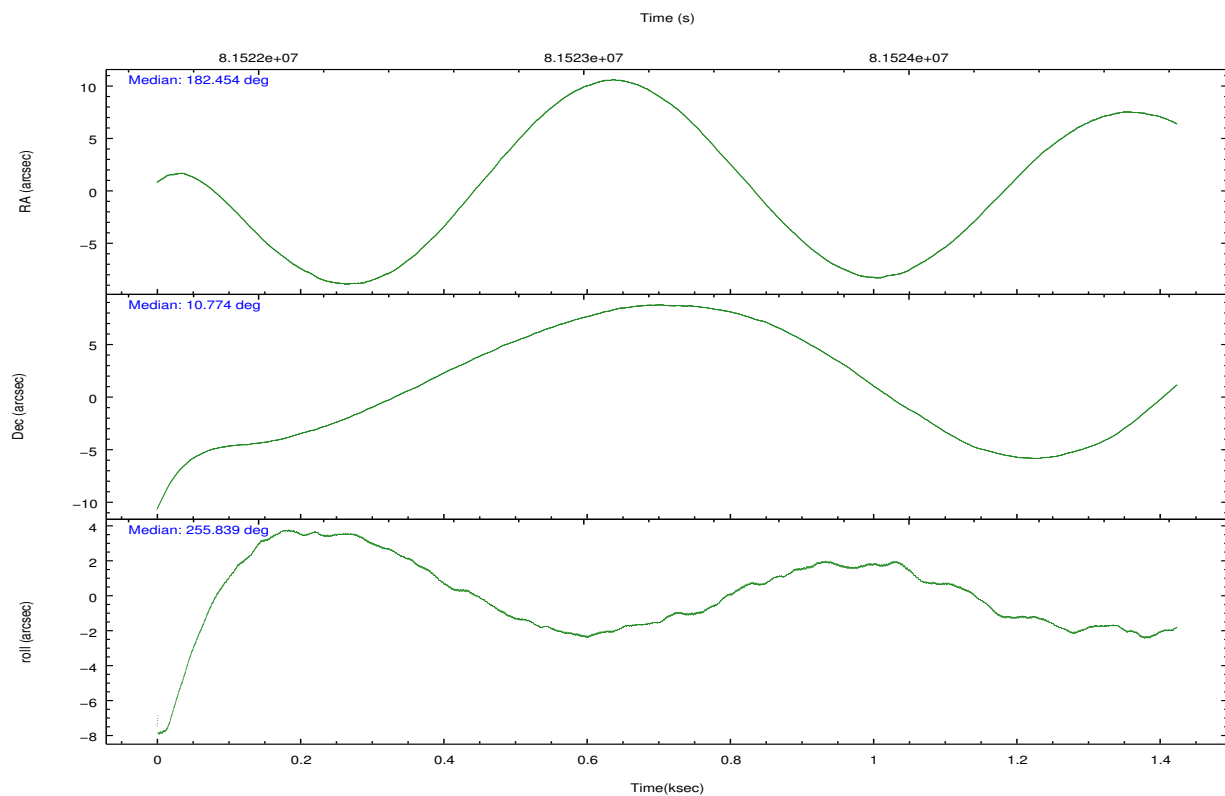
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	68	74	564	78	164	294
	1%	2%	48%	1%	31%	6%
grade 1 events	2	1	19	1	3	0
	0%	0%	1%	0%	0%	0%
grade 2 events	45	18	260	20	131	200
	0%	0%	22%	0%	24%	4%
grade 3 events	32	19	67	27	54	161
	0%	0%	5%	0%	10%	3%
grade 4 events	23	21	67	21	54	137
	0%	0%	5%	0%	10%	3%
grade 5 events	6	5	30	6	11	16
	0%	0%	2%	0%	2%	0%
grade 6 events	19	12	51	12	66	210
	0%	0%	4%	0%	12%	4%
grade 7 events	4365	3515	98	4012	42	3405
	95%	95%	8%	96%	8%	76%

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	182.445843	182.4534772240276	Subarray requested	NONE	NONE
[deg] Pointing Dec	10.800554	10.77373890589403	Alternating exposures requested	N	N
[deg] Pointing Roll	255.693659	255.8487568606515	[s] Primary exposure time	0.000000	3.2
[s] Window start time (MET)	81216064.184000	81216064.184000			
[s] Window stop time (MET)	81734464.184000	81734464.184000			
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	81522840.184000	81521659.878135			
Observation start date	2000-08-01T13:12:56	2000-08-01T12:54:19			
[s] Observation end time (MET)	81523840.184000	81523974.32822099			
Observation end date	2000-08-01T13:29:36	2000-08-01T13:32:54			
Read mode	TIMED	TIMED			

2.3 Aspect



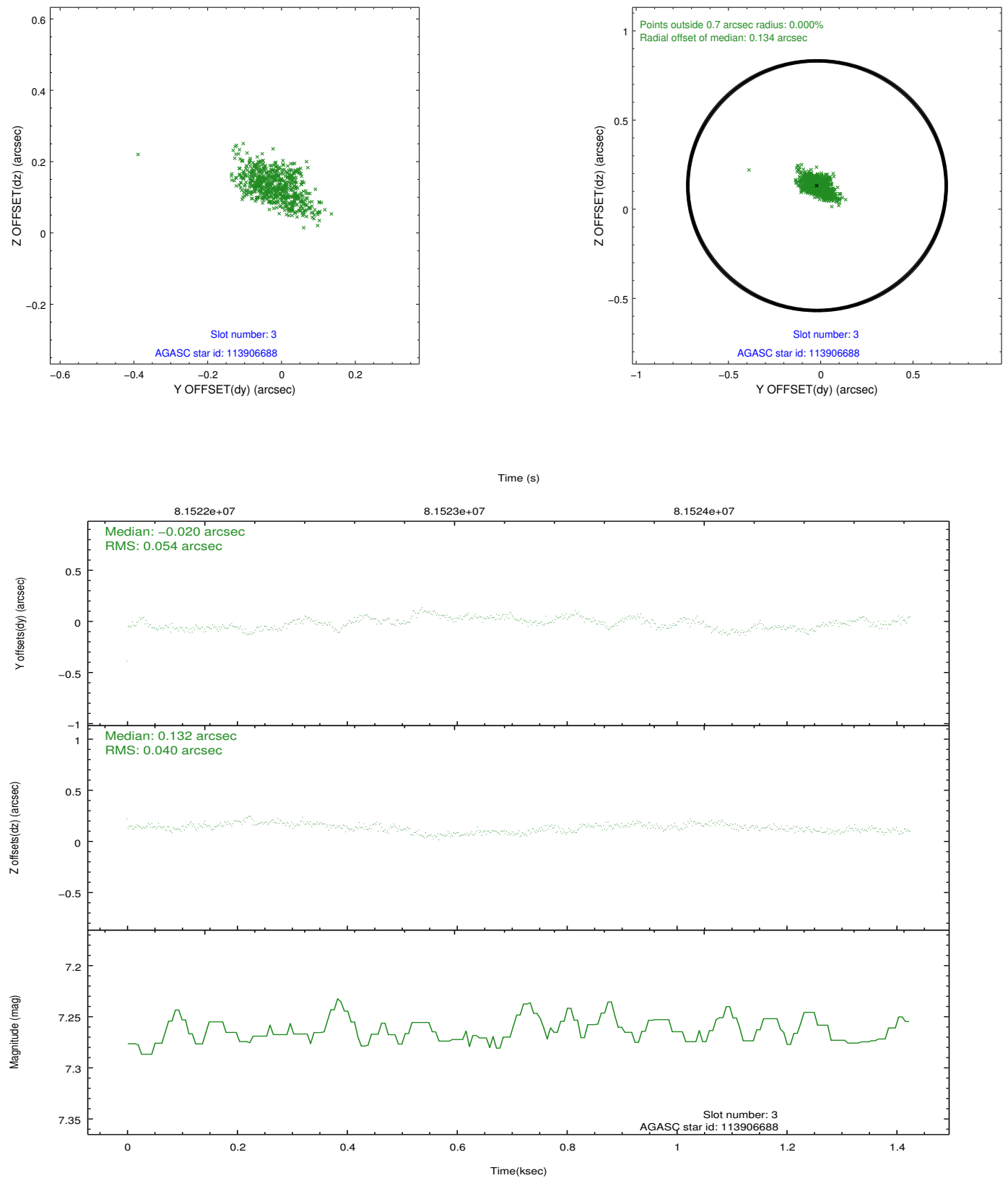


Slot Statistics

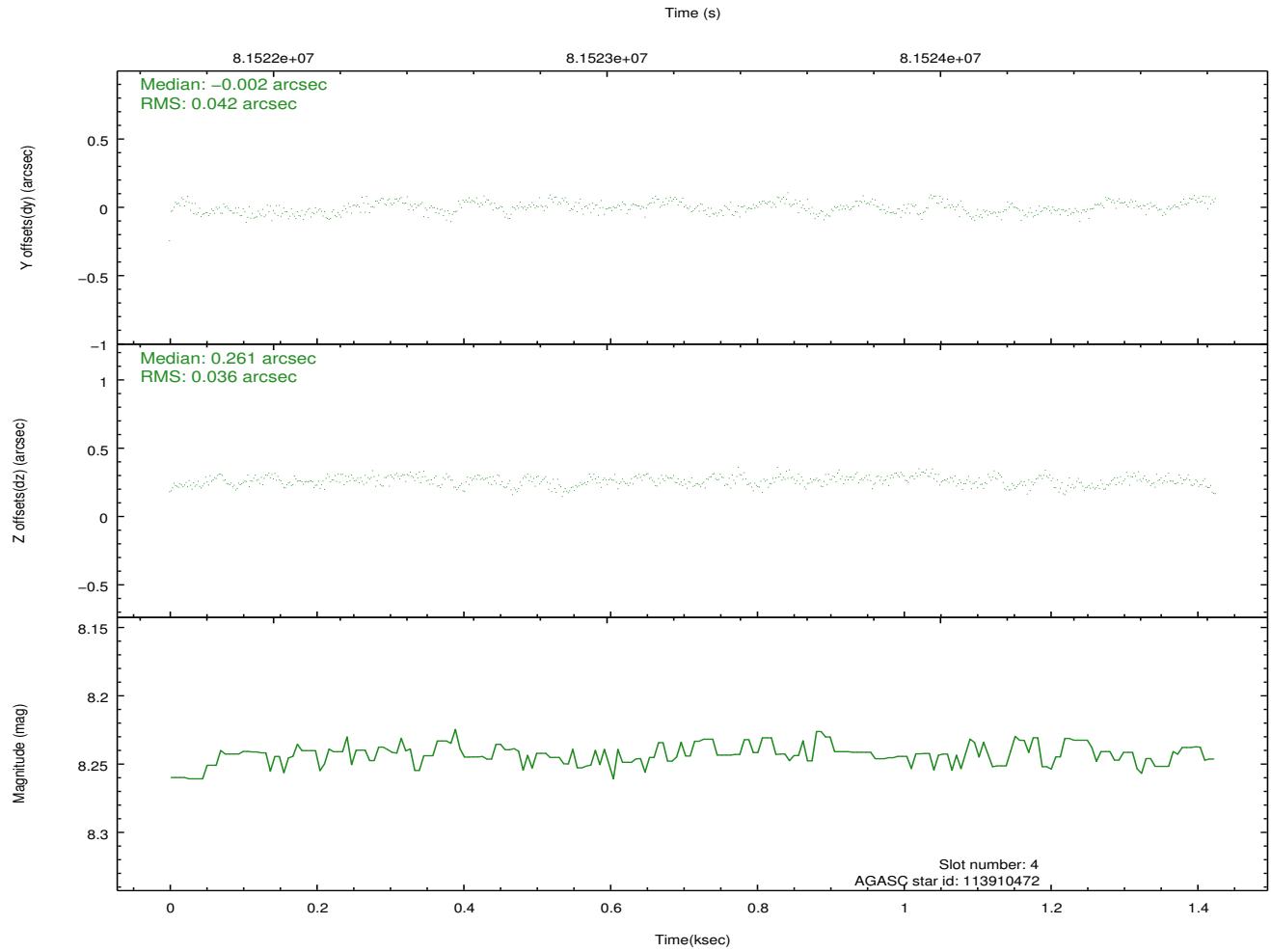
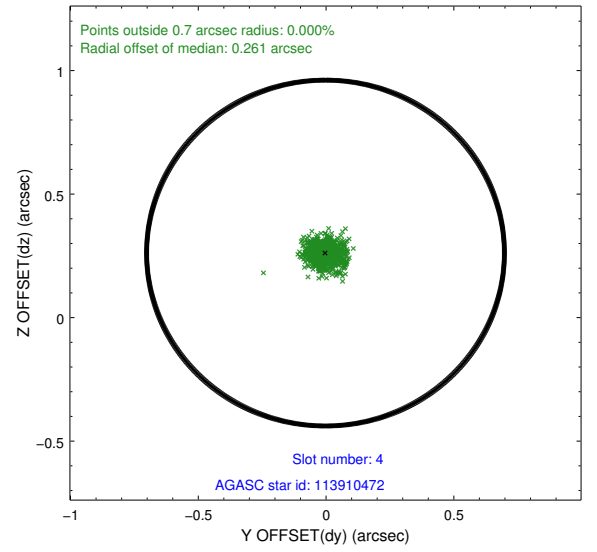
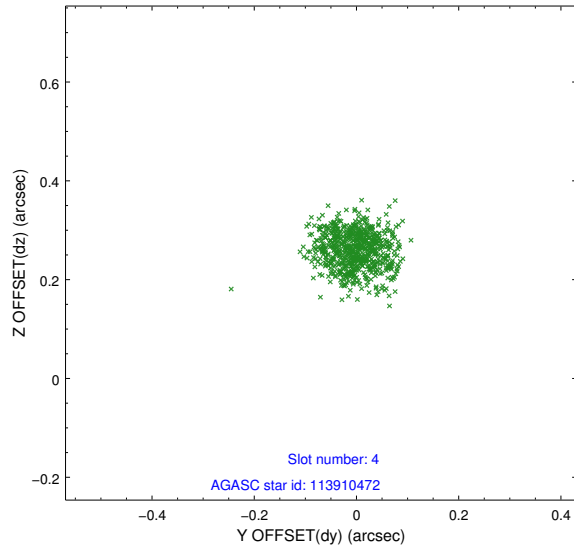
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	348	-0.032	0.013	0.007	0.010	0.000000	0.000000	-754.27	-1727.37
1	FID	ACIS-S-4	7.21	348	-0.025	0.012	0.006	0.010	0.000000	0.000000	2156.92	176.31
2	FID	ACIS-S-5	7.23	348	0.026	-0.016	0.006	0.011	0.000000	0.000000	-1801.06	175.24
3	GUIDE	113906688	7.27	696	-0.020	0.132	0.069	0.117	183.194115	11.111362	-1742.21	2283.73
4	GUIDE	113910472	8.24	696	-0.002	0.261	0.060	0.094	182.994765	11.292167	-2199.47	1443.06
5	GUIDE	113910736	8.48	695	0.174	-0.025	0.090	0.143	181.816666	10.531380	1483.30	-1916.82
6	GUIDE	113908584	8.60	696	-0.198	-0.449	0.075	0.112	182.320674	11.291738	-1603.40	-868.85
7	GUIDE	113908616	8.69	695	0.055	0.085	0.065	0.104	182.402585	11.211583	-1399.42	-515.24

2.4 Star Slots

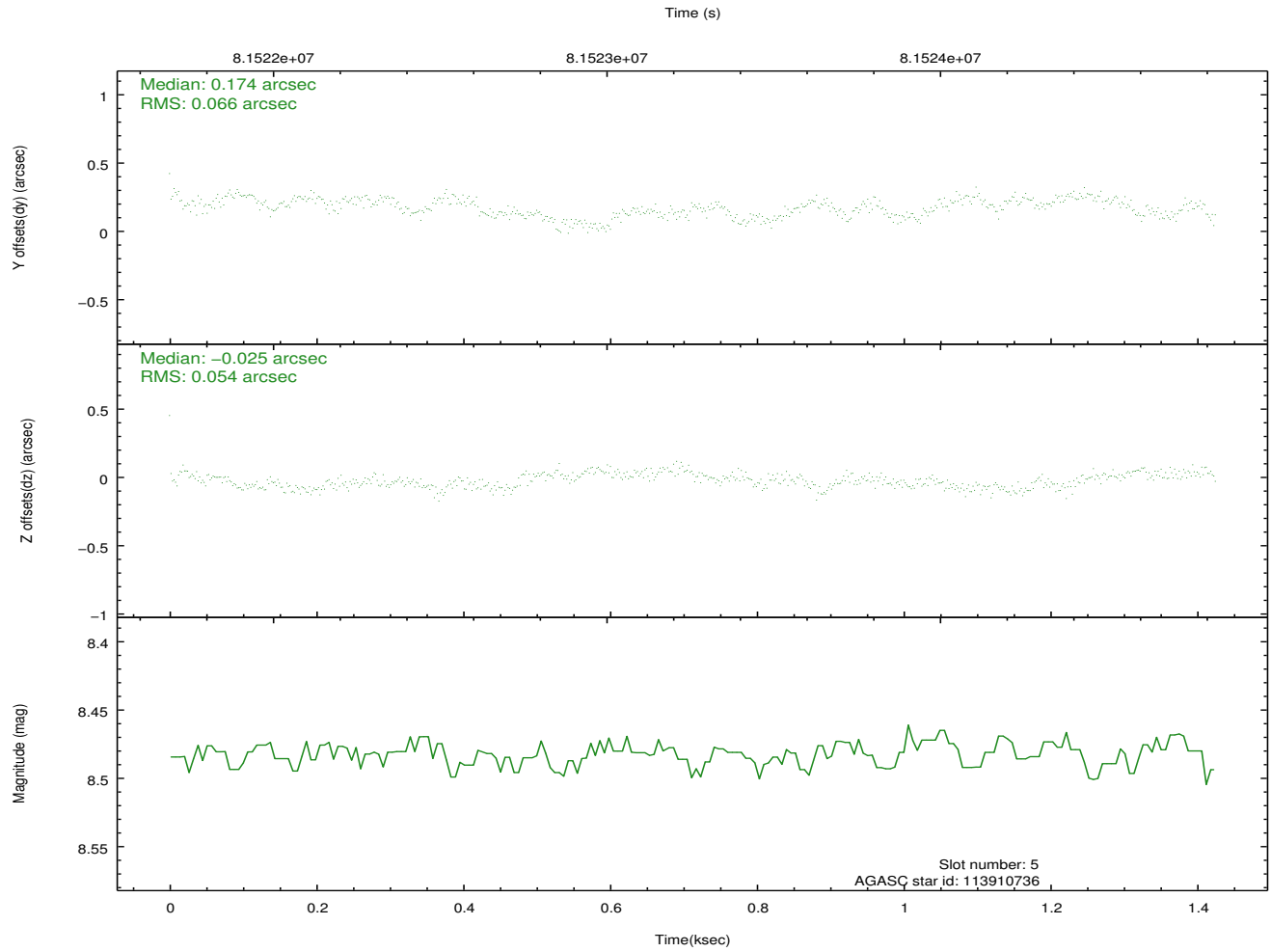
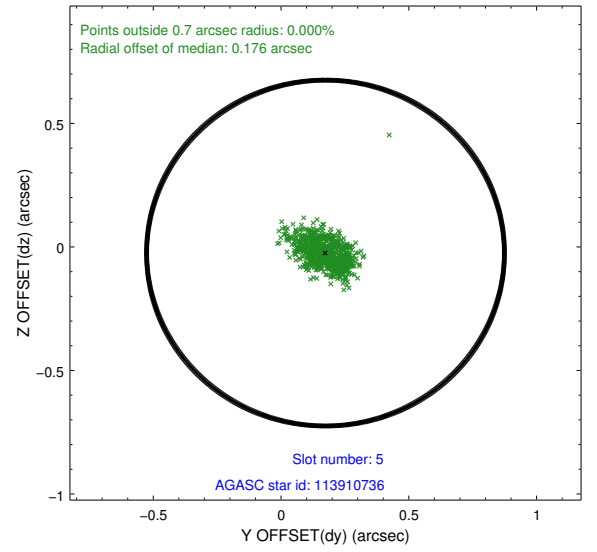
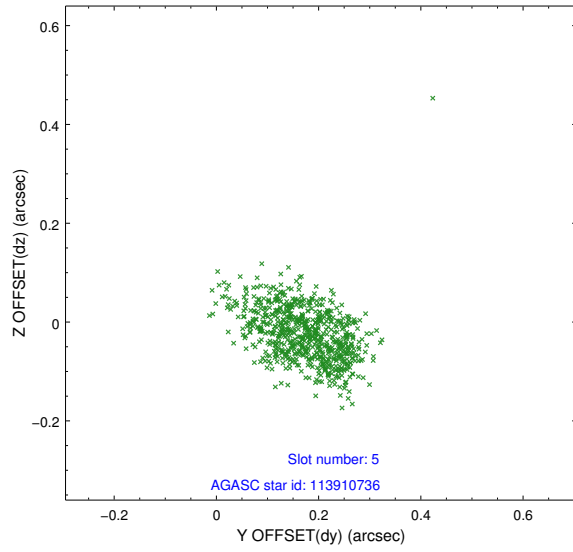
2.4.1 Slot 3



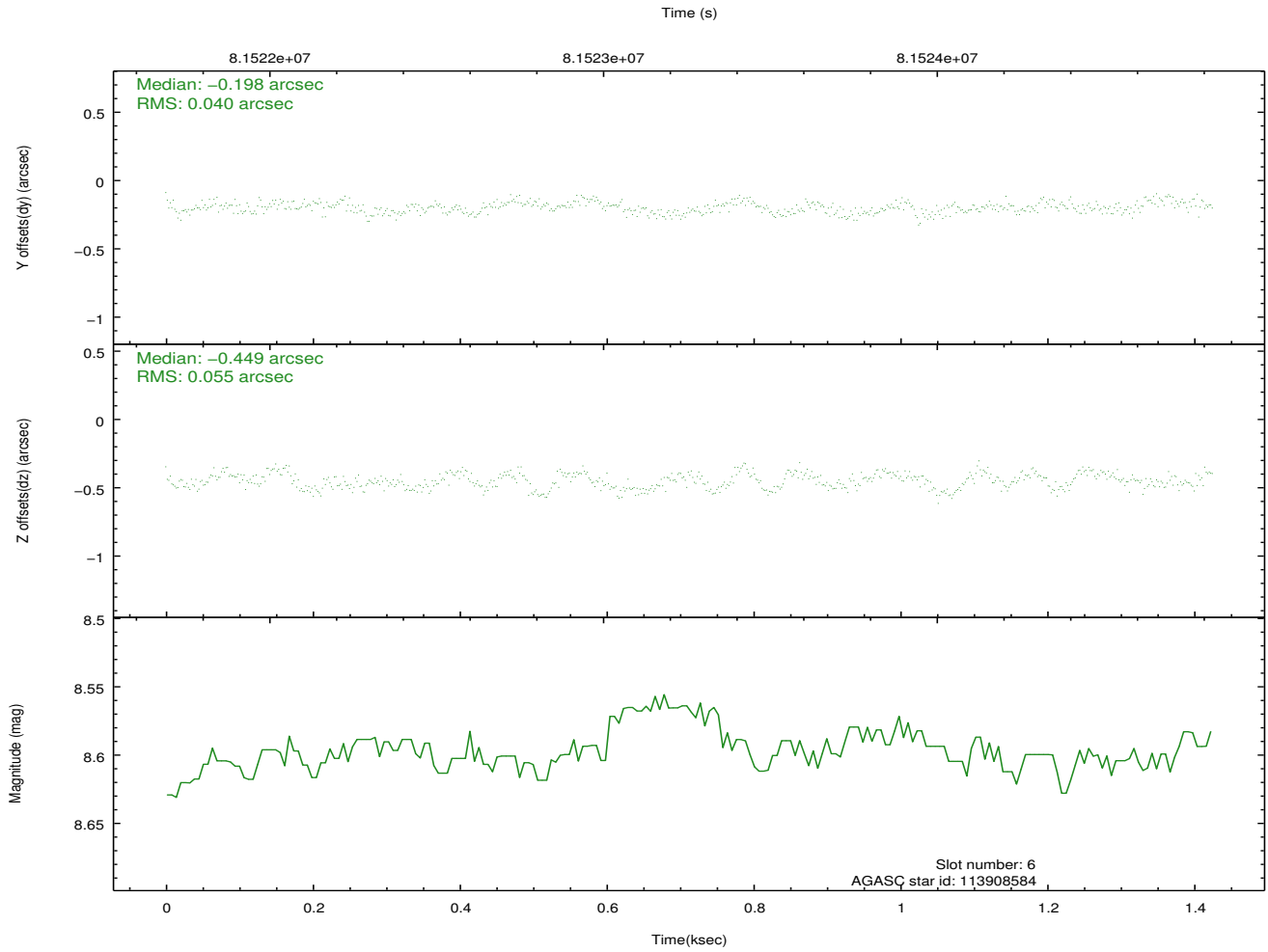
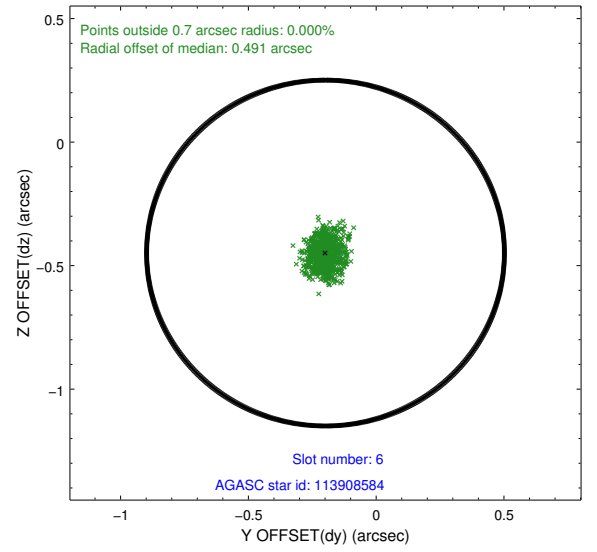
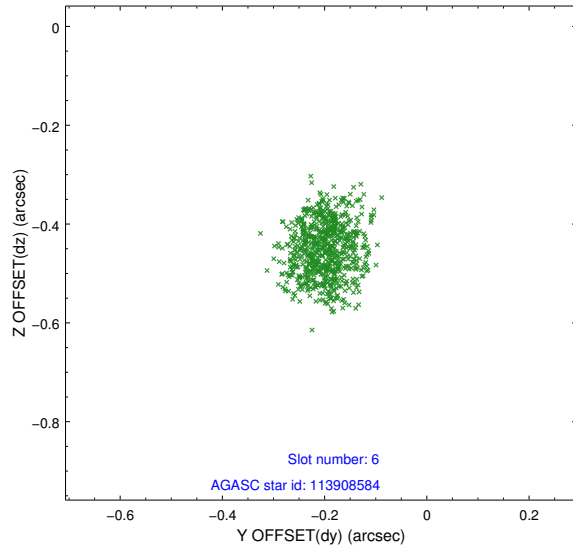
2.4.2 Slot 4



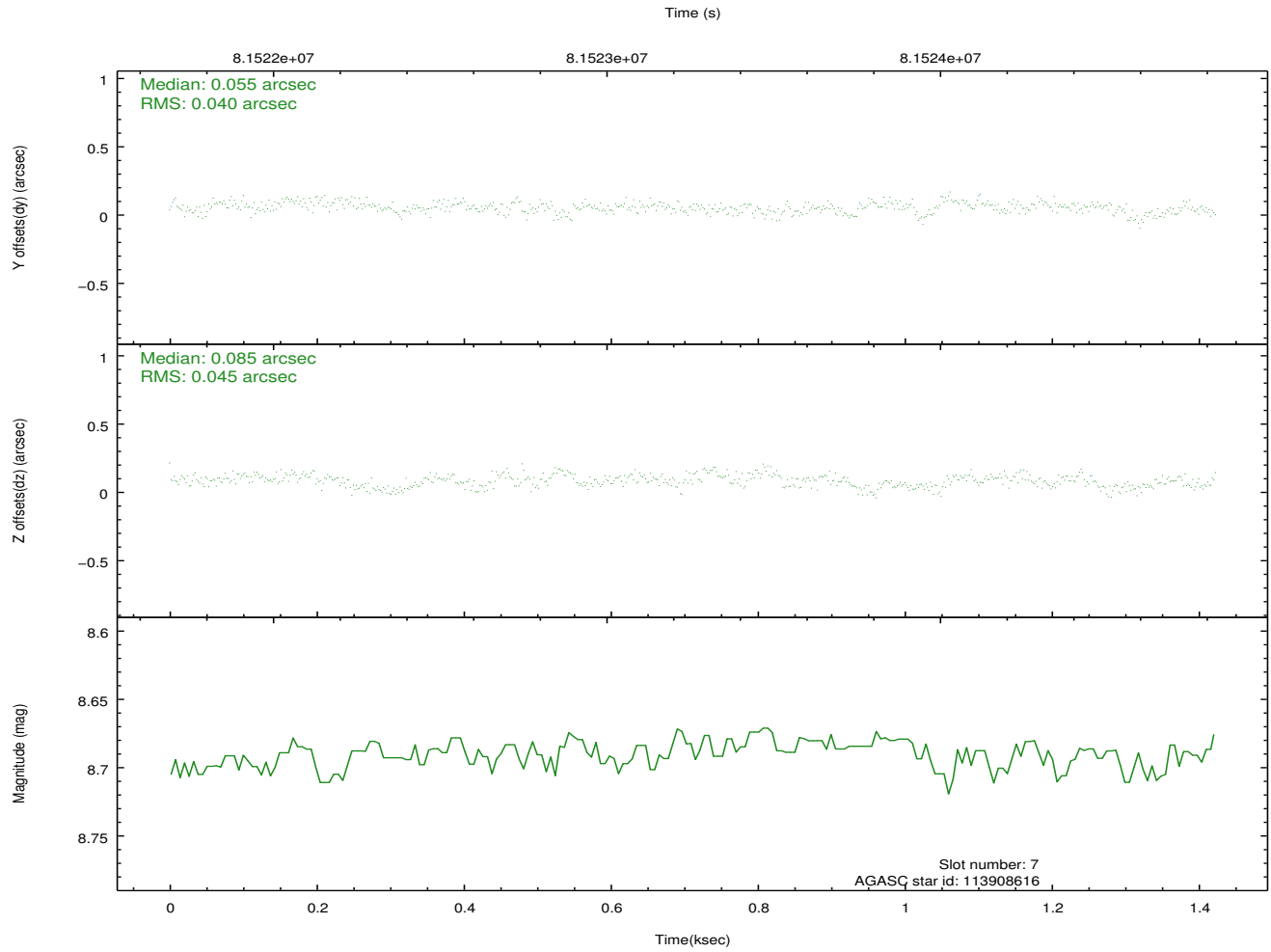
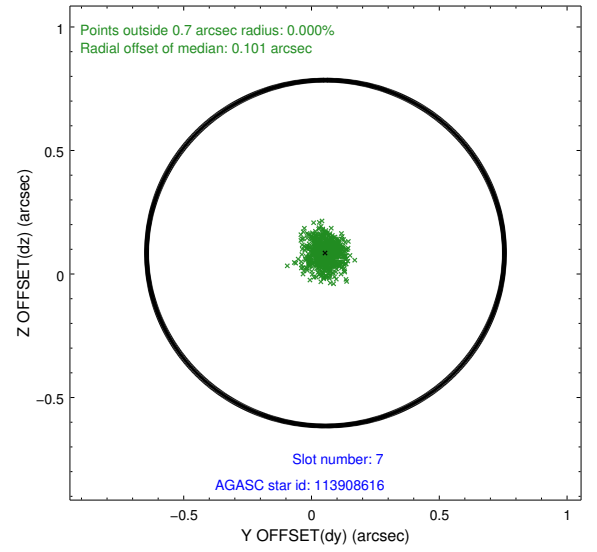
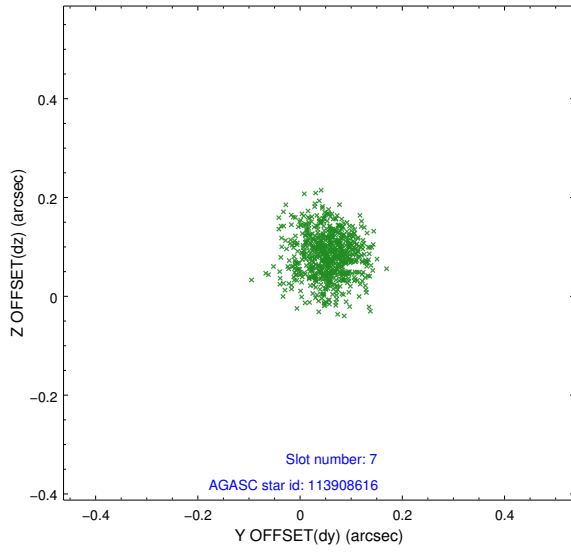
2.4.3 Slot 5



2.4.4 Slot 6

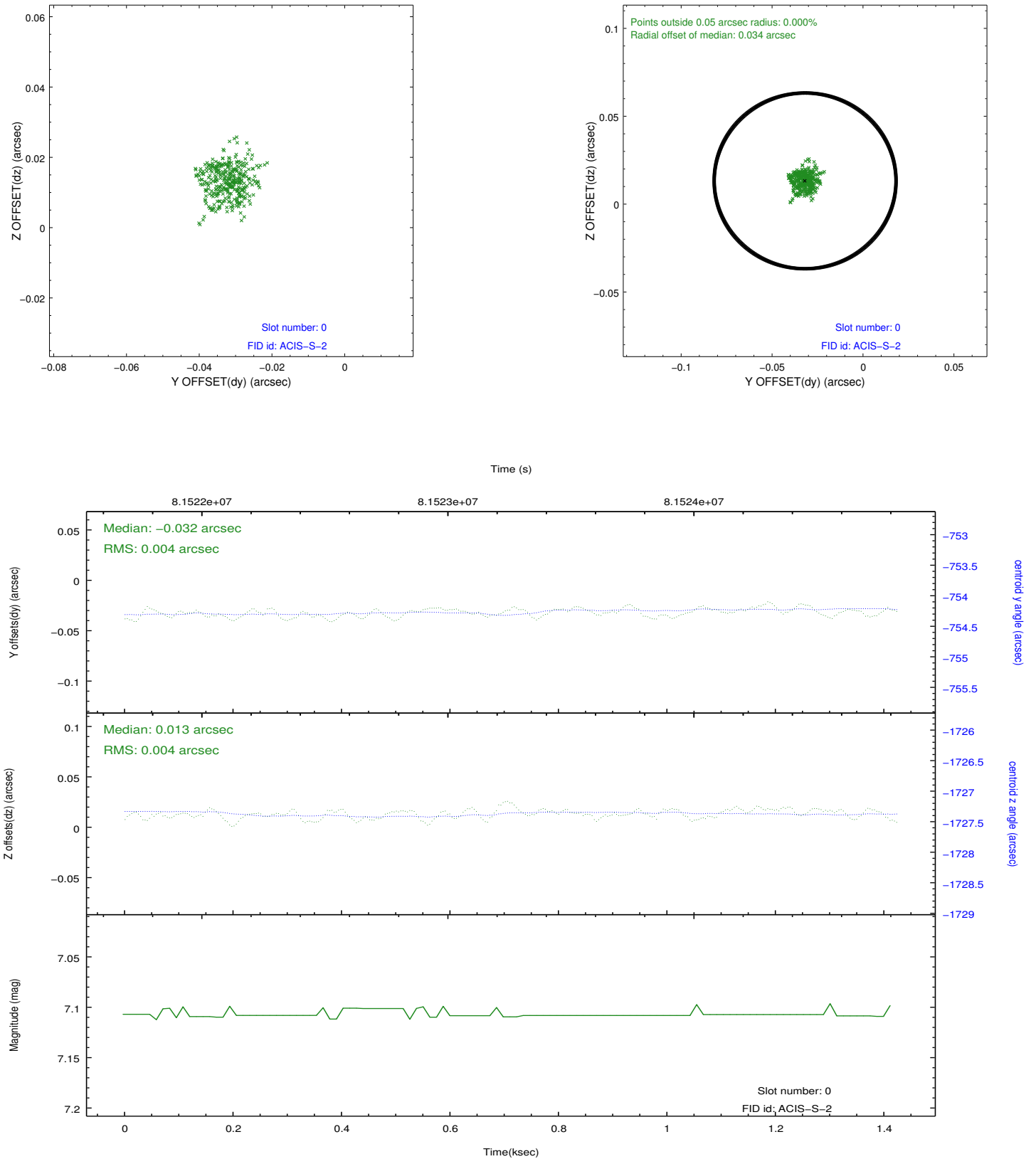


2.4.5 Slot 7

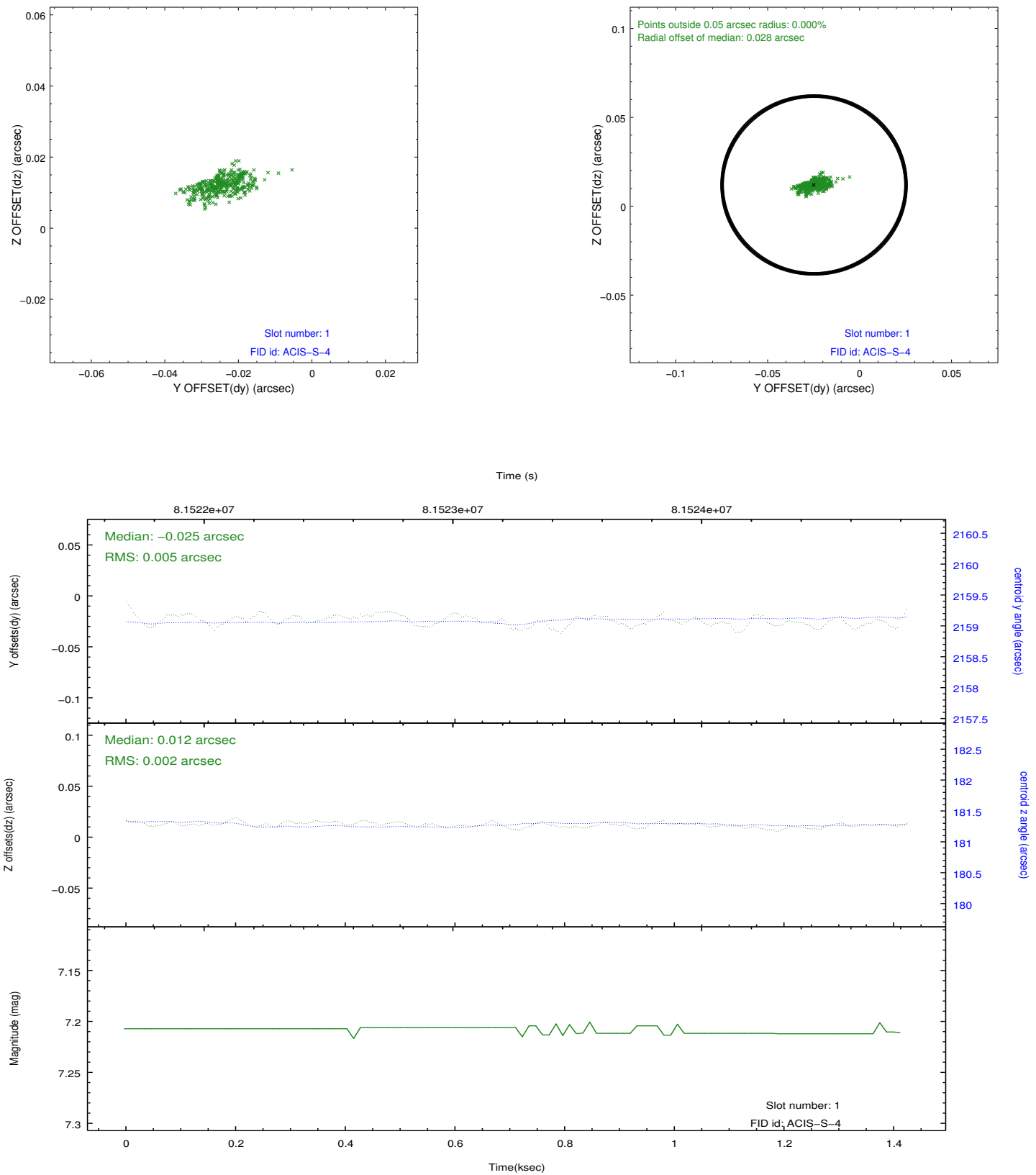


2.5 FID Slots

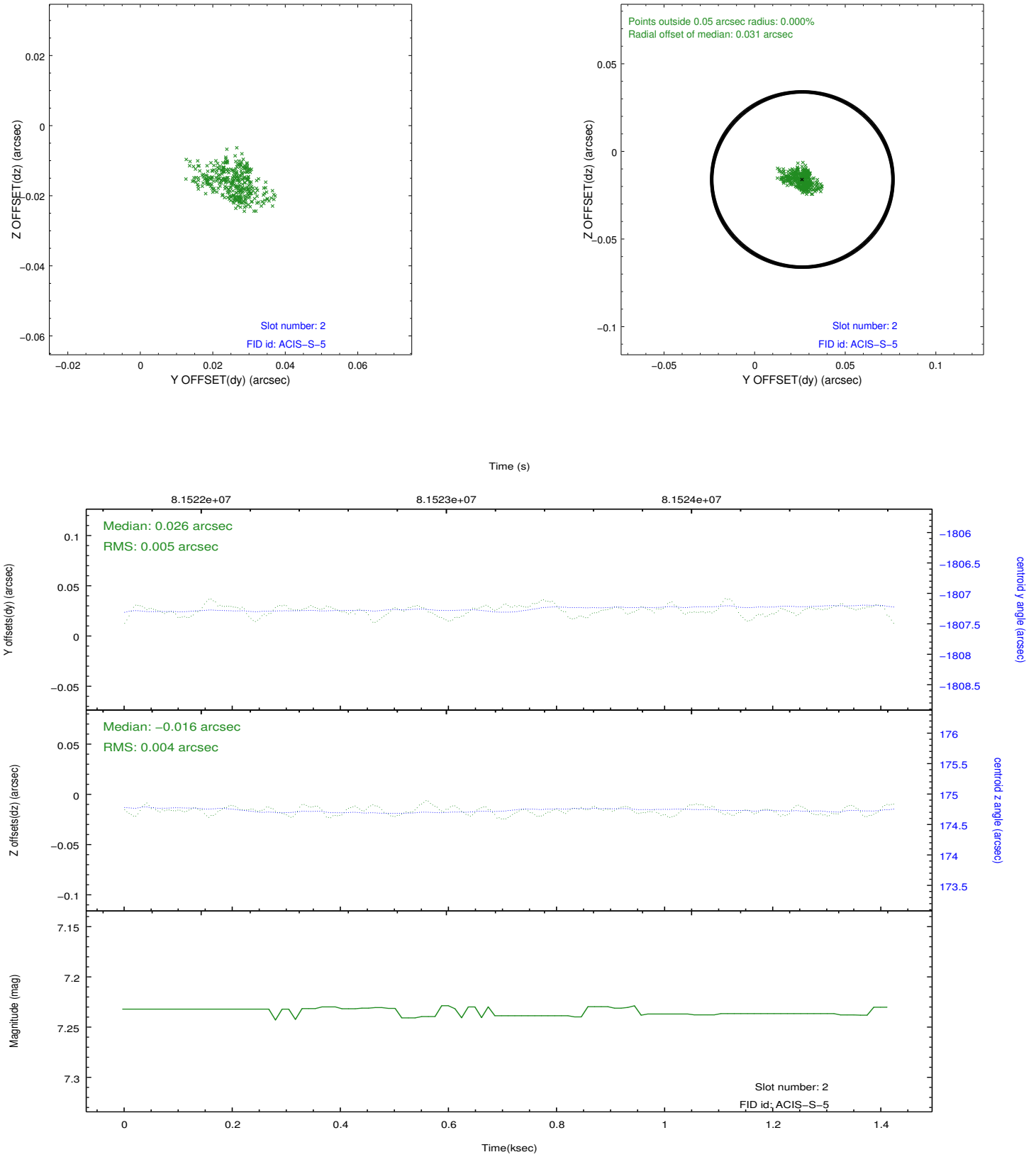
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.10.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	0.96

A.2 Comments

Charge time for this observation remains at previous value of 0.96 ksec.

Window preference met.

This is an observation of a moving target. Event positions are in the reference frame of Chandra, not of the comet. Users should run a software

tool such as sso_freeze to reposition the events in the reference frame

of the comet, then run normal data analysis tools.