

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 1835 - L2 Version 5
Chandra X-Ray Center

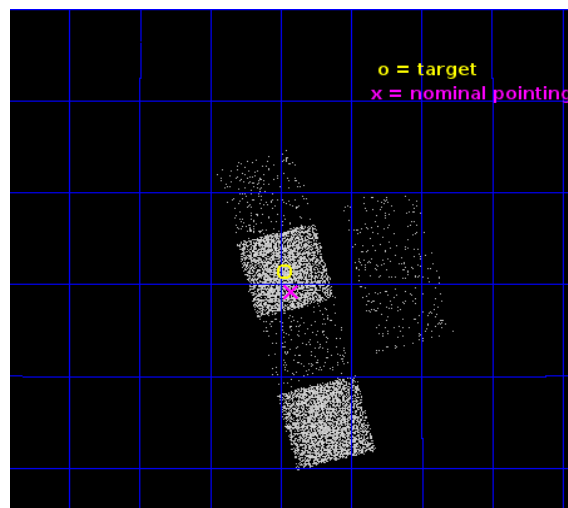
L2 Processing Date : Jun 20 2015

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1 Front

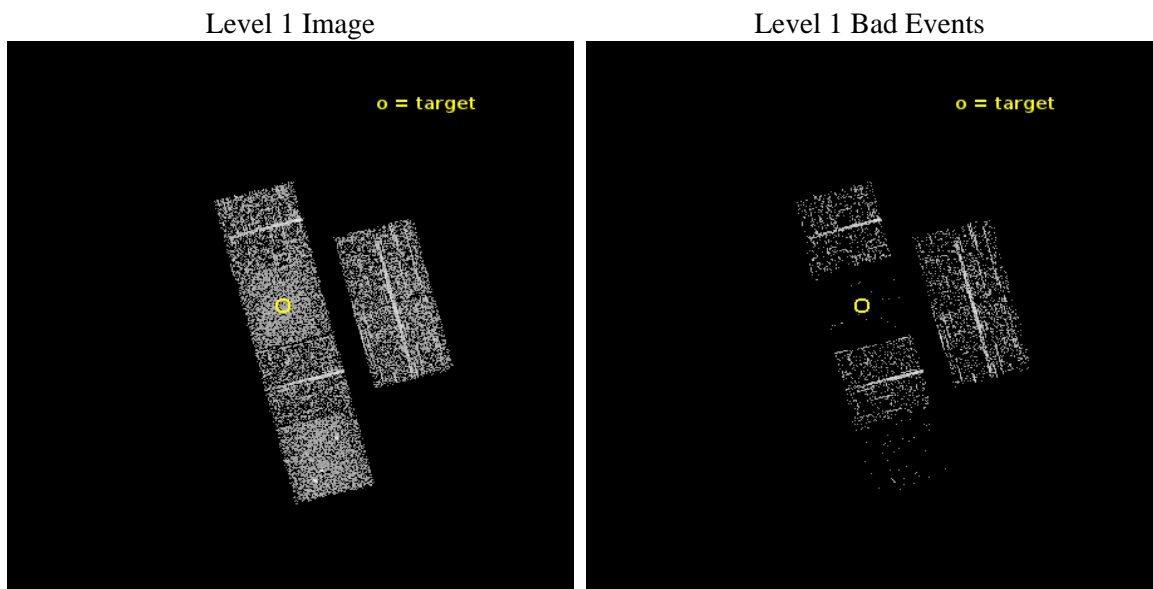
seq_num	100018	Sequence number
obs_id	1835	Observation id
title	AXAF LOW ENERGY SPECTROSCOPY AND PHOTOMETRIC IMAGING OF COMETARY X-RAY EMISSION FROM COMET P/TEMPEL 2	Proposal title
observer	Dr. Carey Lisse	Principal investigator
object	Comet c/LINEAR 1999 S4	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	182.74248	Observer's specified target RA [deg]
dec_targ	10.18919	Observer's specified target Dec [deg]
ra_nom	182.73083805759	Nominal RA [deg]
dec_nom	10.153410108612	Nominal Dec [deg]
roll_nom	255.40854407618	Nominal Roll [deg]
revision	5	Processing version of data
ontime	1190.1562448144	Sum of GTIs [s]
livetime	1175.0857698165	Livetime [s]
ontime2	1190.1562448144	Sum of GTIs [s]
ontime3	1190.1562448144	Sum of GTIs [s]
ontime5	1190.1562448144	Sum of GTIs [s]
ontime6	1190.1562448144	Sum of GTIs [s]
ontime7	1190.1562448144	Sum of GTIs [s]
ontime8	1190.1562448144	Sum of GTIs [s]
l2events	9259	Number of level 2 events



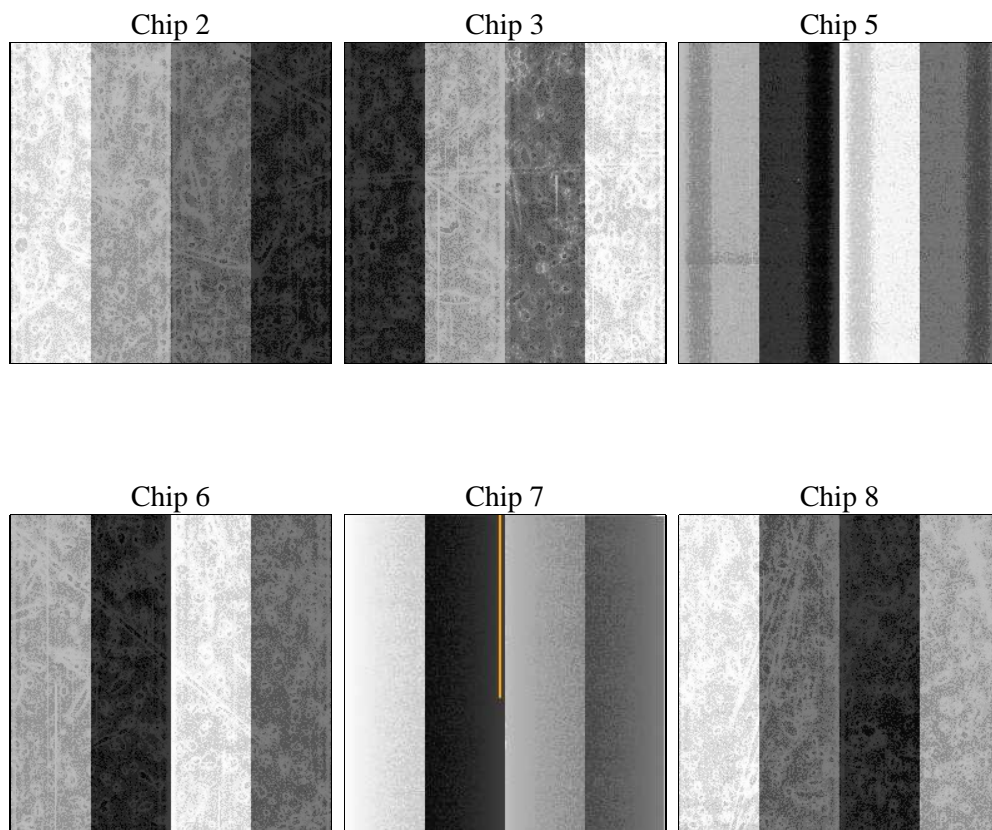
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	1270.000000	[s] Scheduled observation exposure time
ascdsver	10.4	Processing system revision	ontime	1190.1562448144	Sum of GTIs [s]
caldsver	4.6.7	 	ontime2	1190.1562448144	Sum of GTIs [s]
date	2015-06-20T16:58:28	Date and time of file creation	ontime3	1190.1562448144	Sum of GTIs [s]
revision	5	Processing version of data	ontime5	1190.1562448144	Sum of GTIs [s]
			ontime6	1190.1562448144	Sum of GTIs [s]
			ontime7	1190.1562448144	Sum of GTIs [s]
			ontime8	1190.1562448144	Sum of GTIs [s]
			l1events	36513	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	6400	5951	7024	4823	6622	5693
rejected events	6141	5764	2358	4552	2224	4800
rejected %	95%	96%	33%	94%	33%	84%

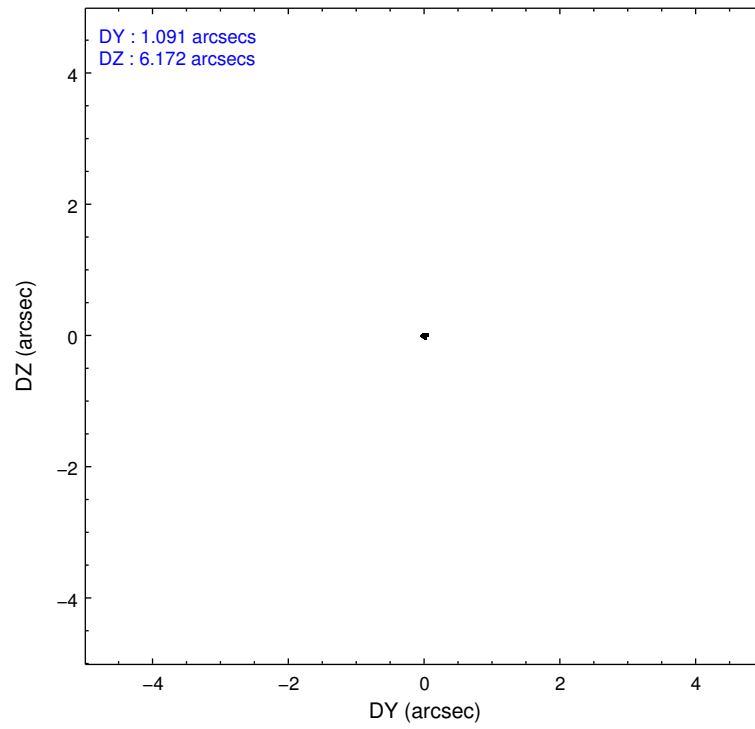
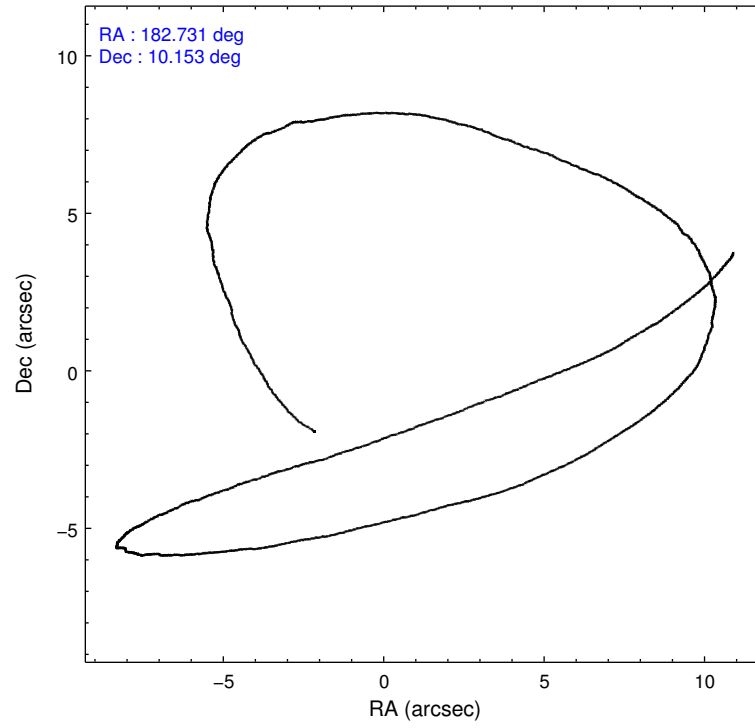
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	166	116	2864	214	2030	391
	2%	1%	40%	4%	30%	6%
grade 1 events	2	0	19	3	7	1
	0%	0%	0%	0%	0%	0%
grade 2 events	58	30	1821	47	1627	232
	0%	0%	25%	0%	24%	4%
grade 3 events	47	31	596	39	754	99
	0%	0%	8%	0%	11%	1%
grade 4 events	43	36	600	35	783	102
	0%	0%	8%	0%	11%	1%
grade 5 events	11	8	78	2	38	18
	0%	0%	1%	0%	0%	0%
grade 6 events	25	21	865	13	1276	321
	0%	0%	12%	0%	19%	5%
grade 7 events	6048	5709	181	4470	107	4529
	94%	95%	2%	92%	1%	79%

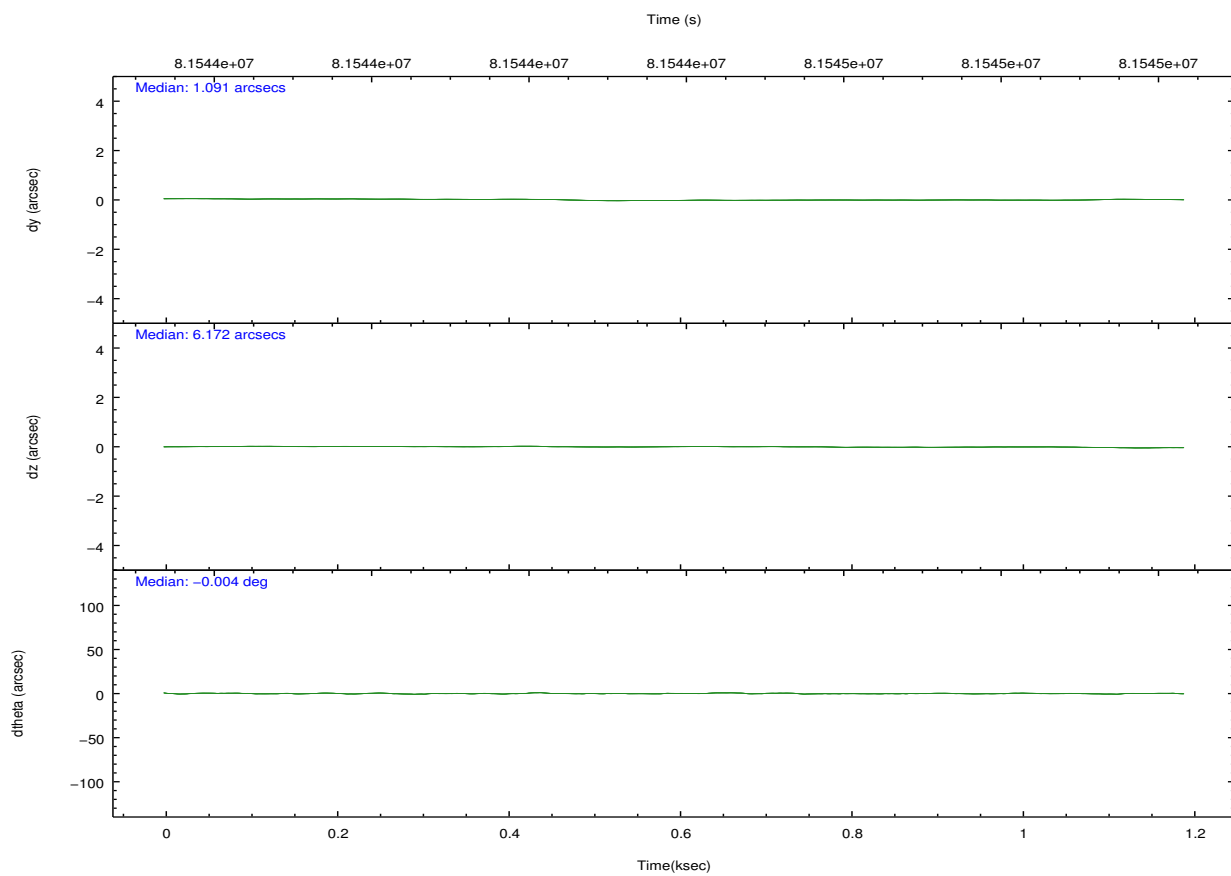
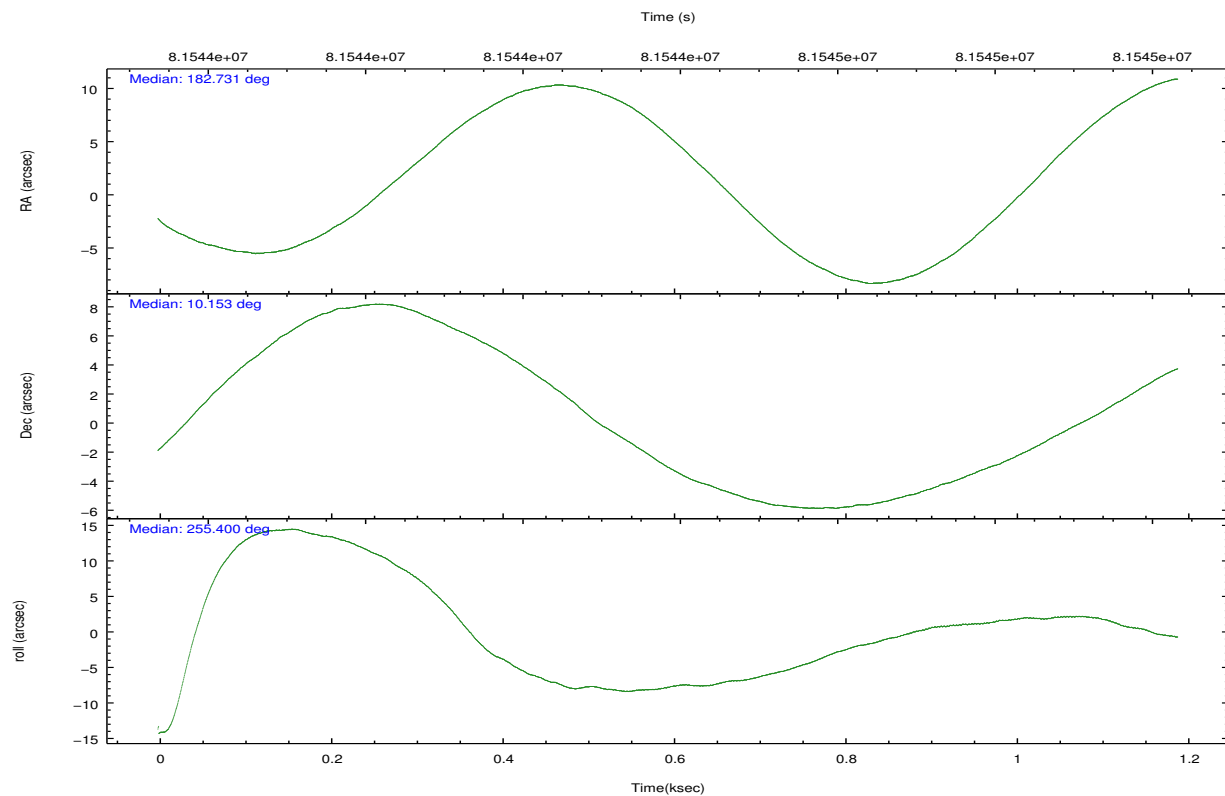
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-235678	ACIS-235678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	182.723460	182.7308380575868
[deg] Pointing Dec	10.179642	10.15341010861166
[deg] Pointing Roll	255.253298	255.4085440761808
[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)	81543710.184000	81543604.10395201
Observation start date	2000-08-01T19:00:46	2000-08-01T19:00:04
[s] Observation end time (MET)	81544980.184000	81545114.441508
Observation end date	2000-08-01T19:21:56	2000-08-01T19:25:14
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.2

2.3 Aspect



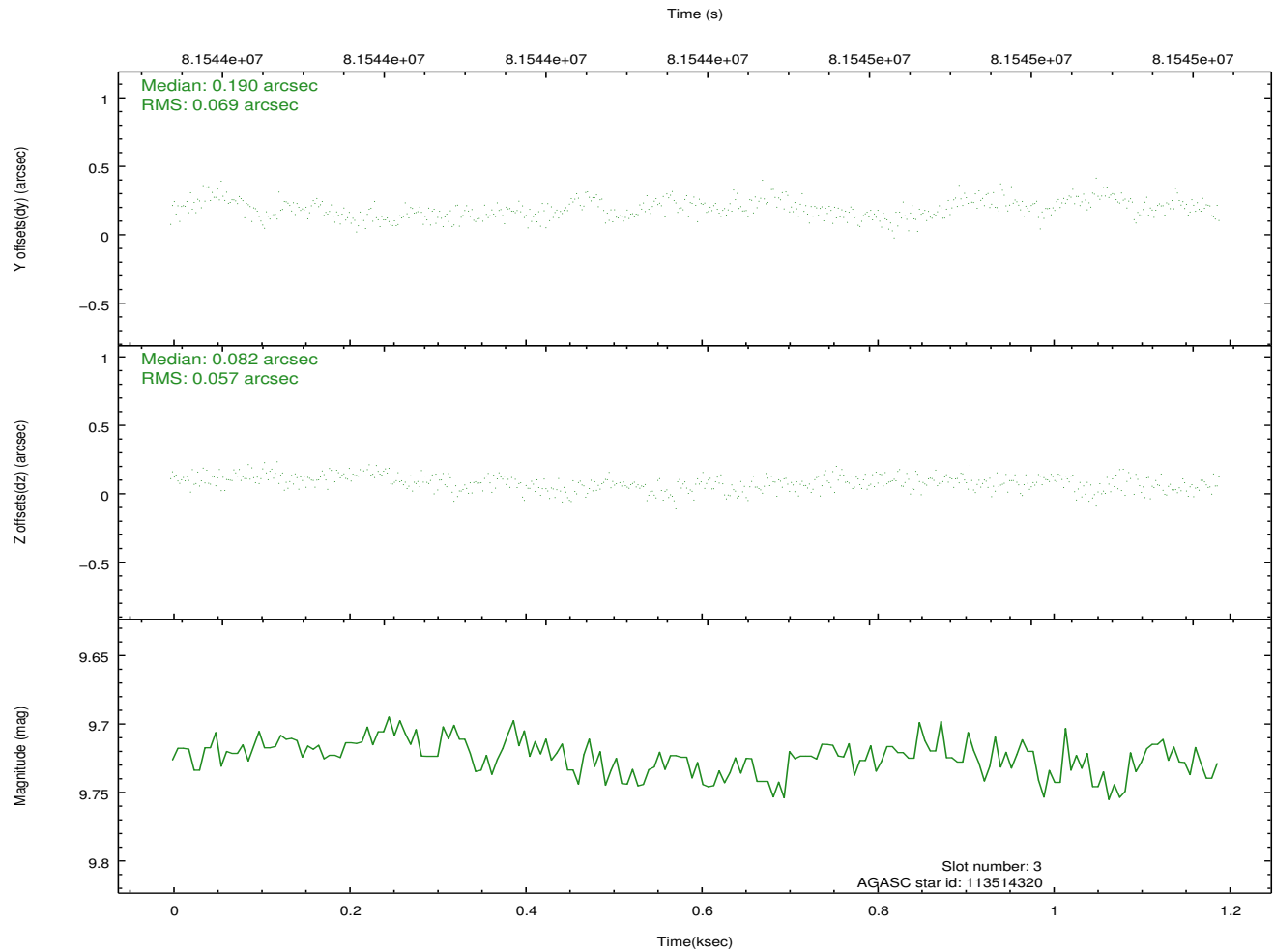
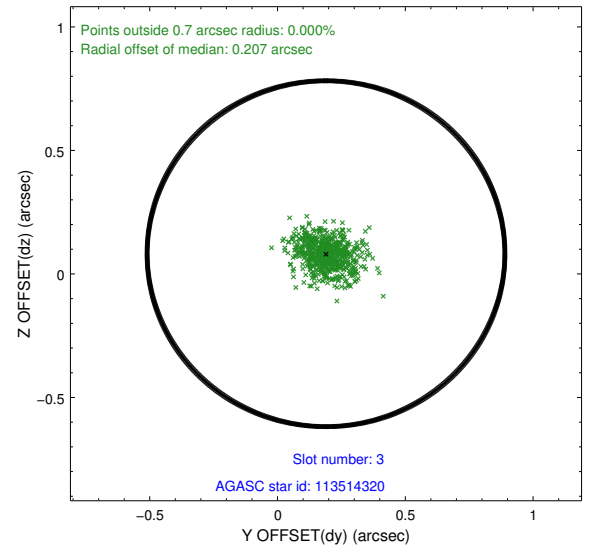
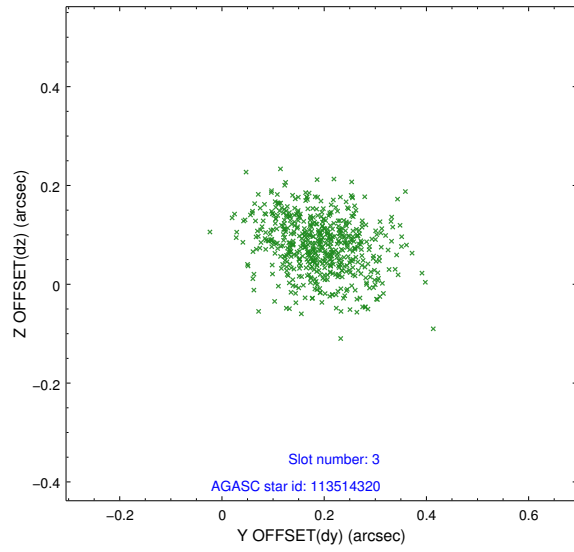


Slot Statistics

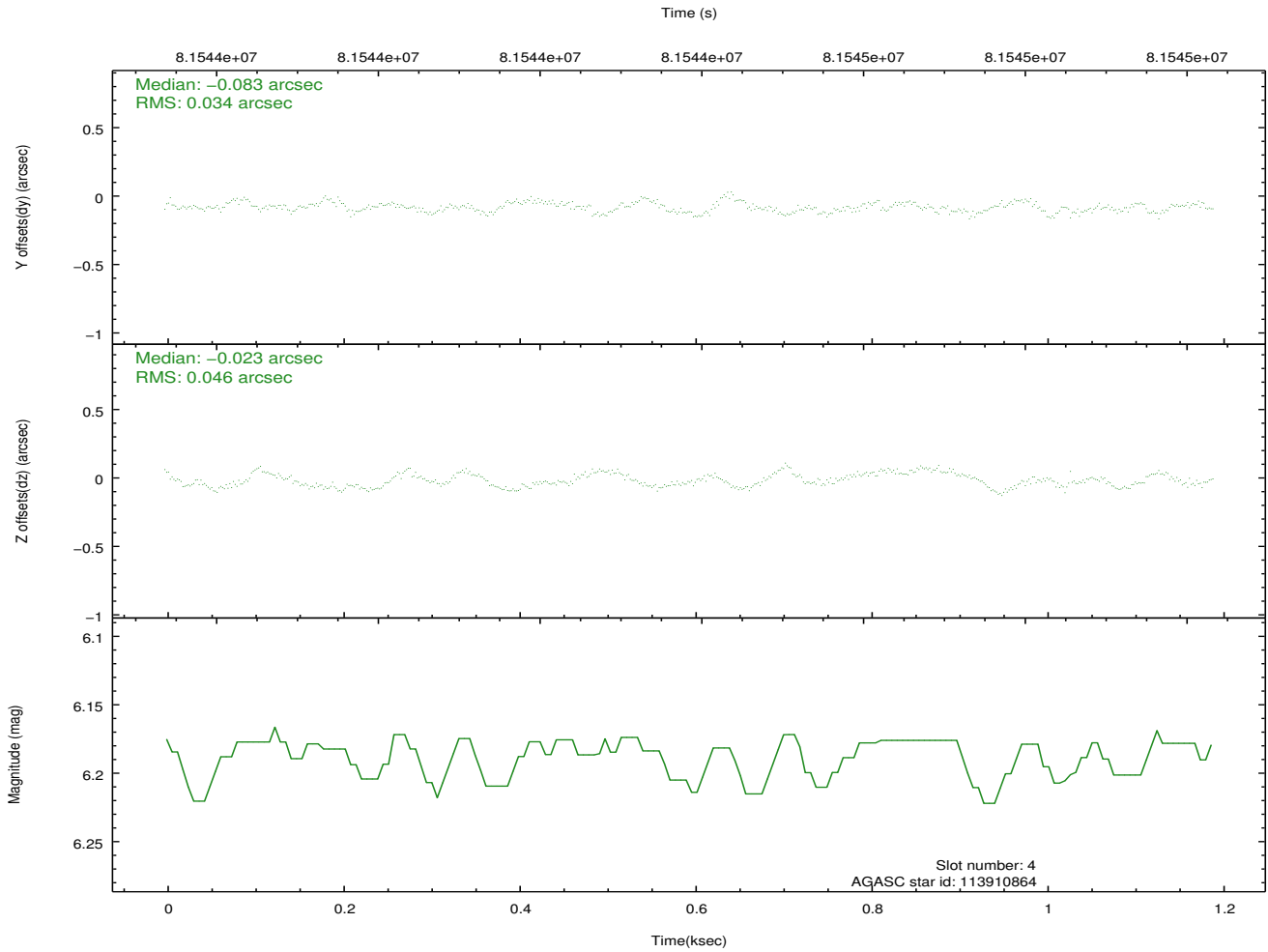
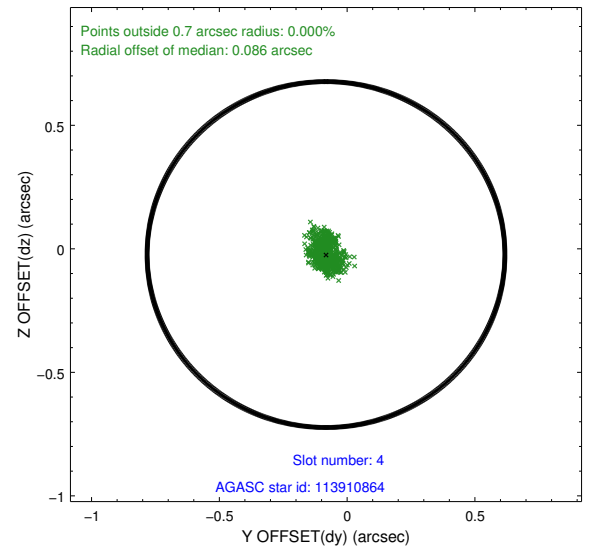
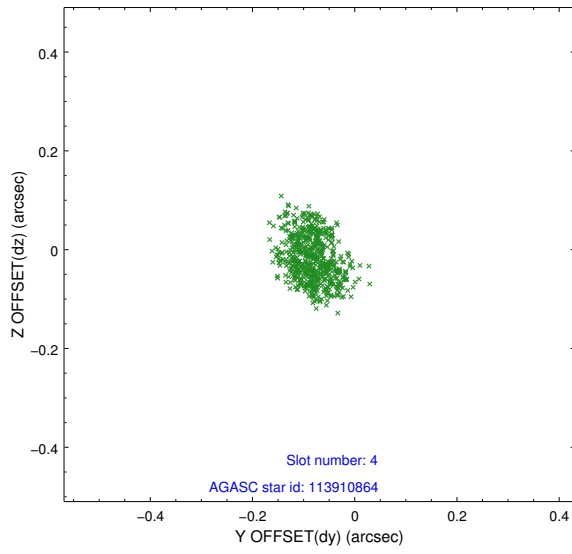
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.10	291	-0.044	-0.002	0.007	0.010	0.000000	0.000000	-753.72	-1727.27
1	FID		ACIS-S-4	7.21	291	0.009	0.022	0.006	0.010	0.000000	0.000000	2157.07	175.48
2	FID		ACIS-S-5	7.23	291	0.003	-0.011	0.006	0.010	0.000000	0.000000	-1799.32	175.46
3	GUIDE	used	113514320	9.72	582	0.190	0.082	0.096	0.157	183.030216	9.556614	1892.52	1624.26
4	GUIDE	used	113910864	6.19	582	-0.083	-0.023	0.063	0.094	183.358076	10.262342	-858.25	2100.18
5	GUIDE	used	113905264	10.19	582	-0.023	-0.120	0.115	0.187	182.445692	10.343633	-321.09	-1098.36
6	GUIDE	used	113910808	10.22	579	-0.043	0.102	0.131	0.224	183.289541	10.594003	-1953.90	1554.88
7	GUIDE	used	113909720	7.53	580	-0.040	-0.053	0.081	0.124	183.372953	10.041634	-110.25	2355.00

2.4 Star Slots

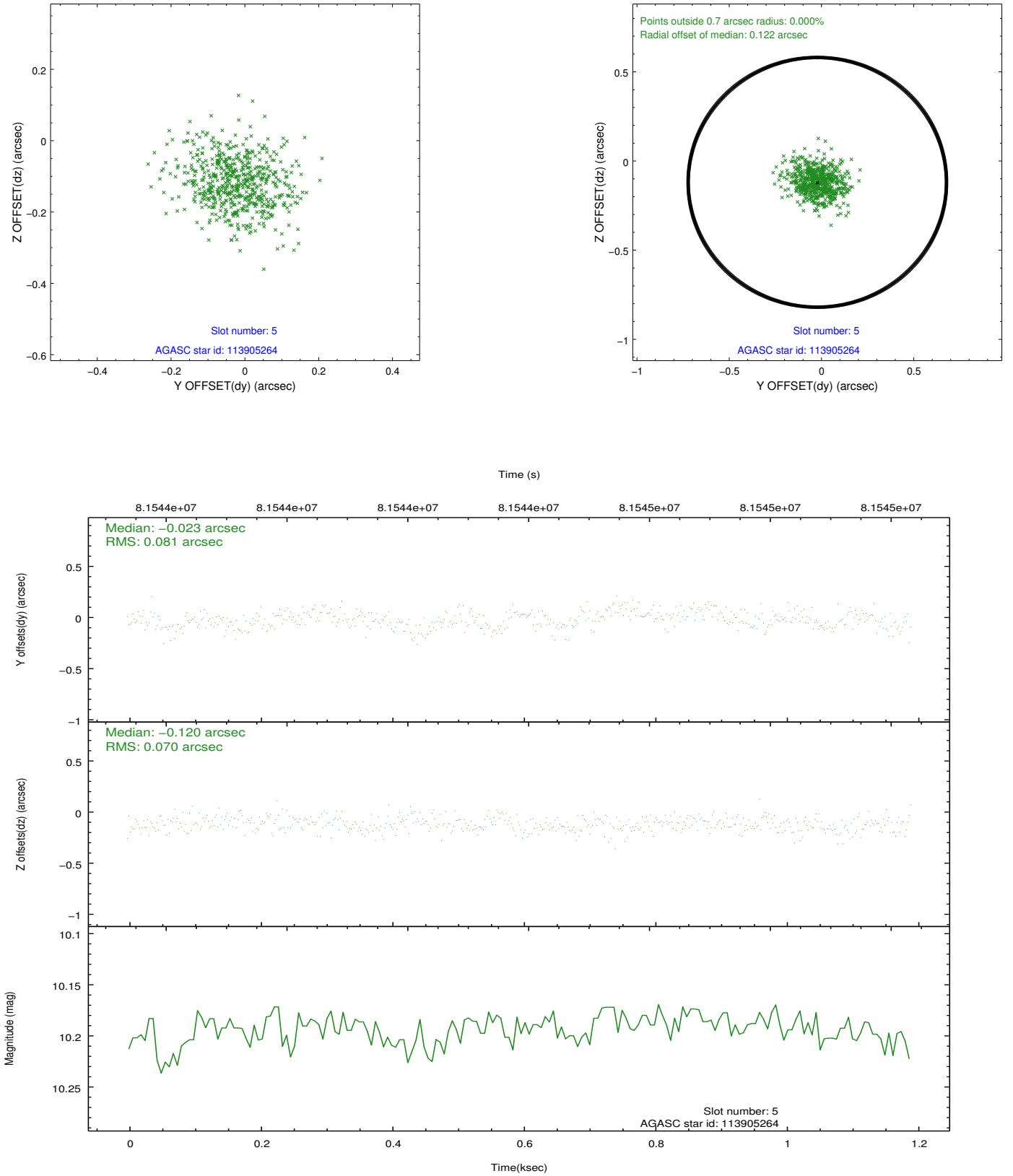
2.4.1 Slot 3



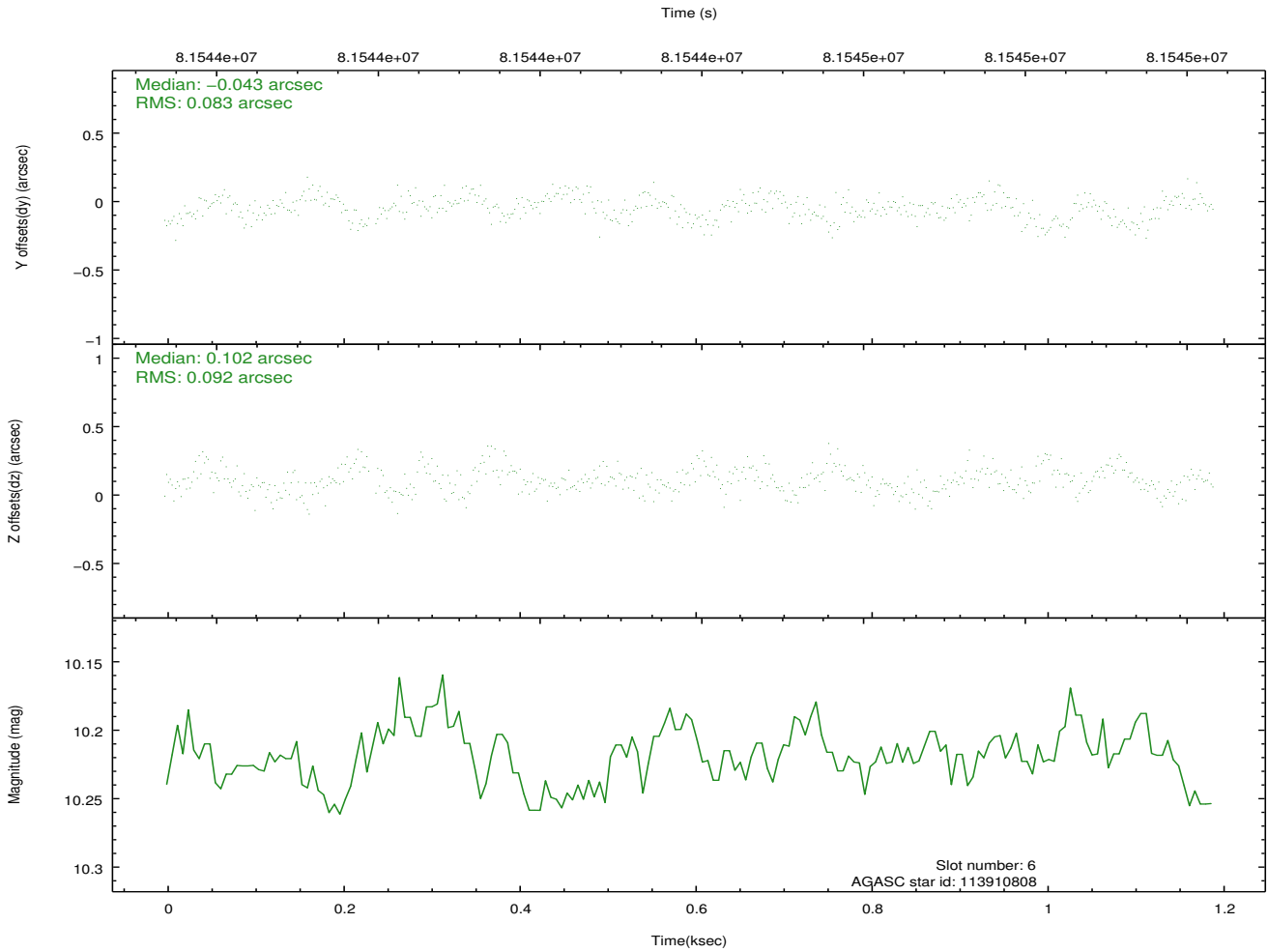
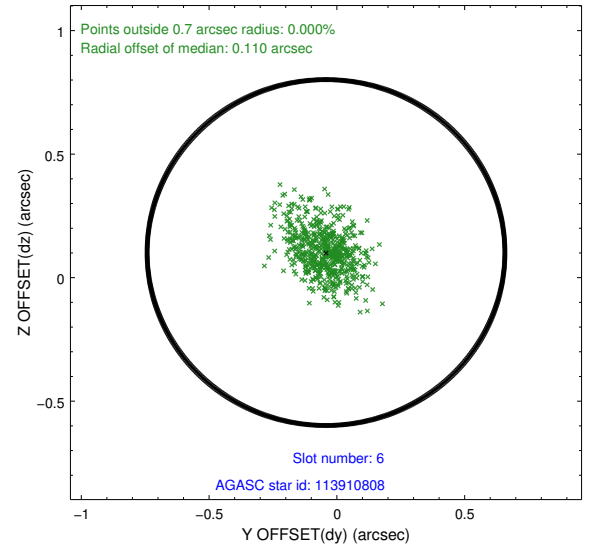
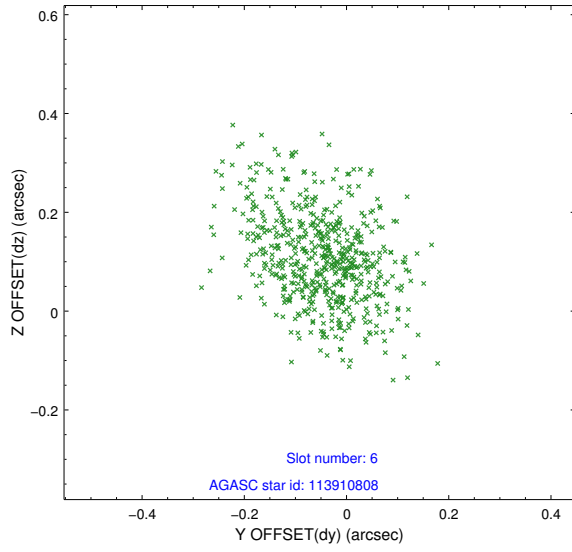
2.4.2 Slot 4



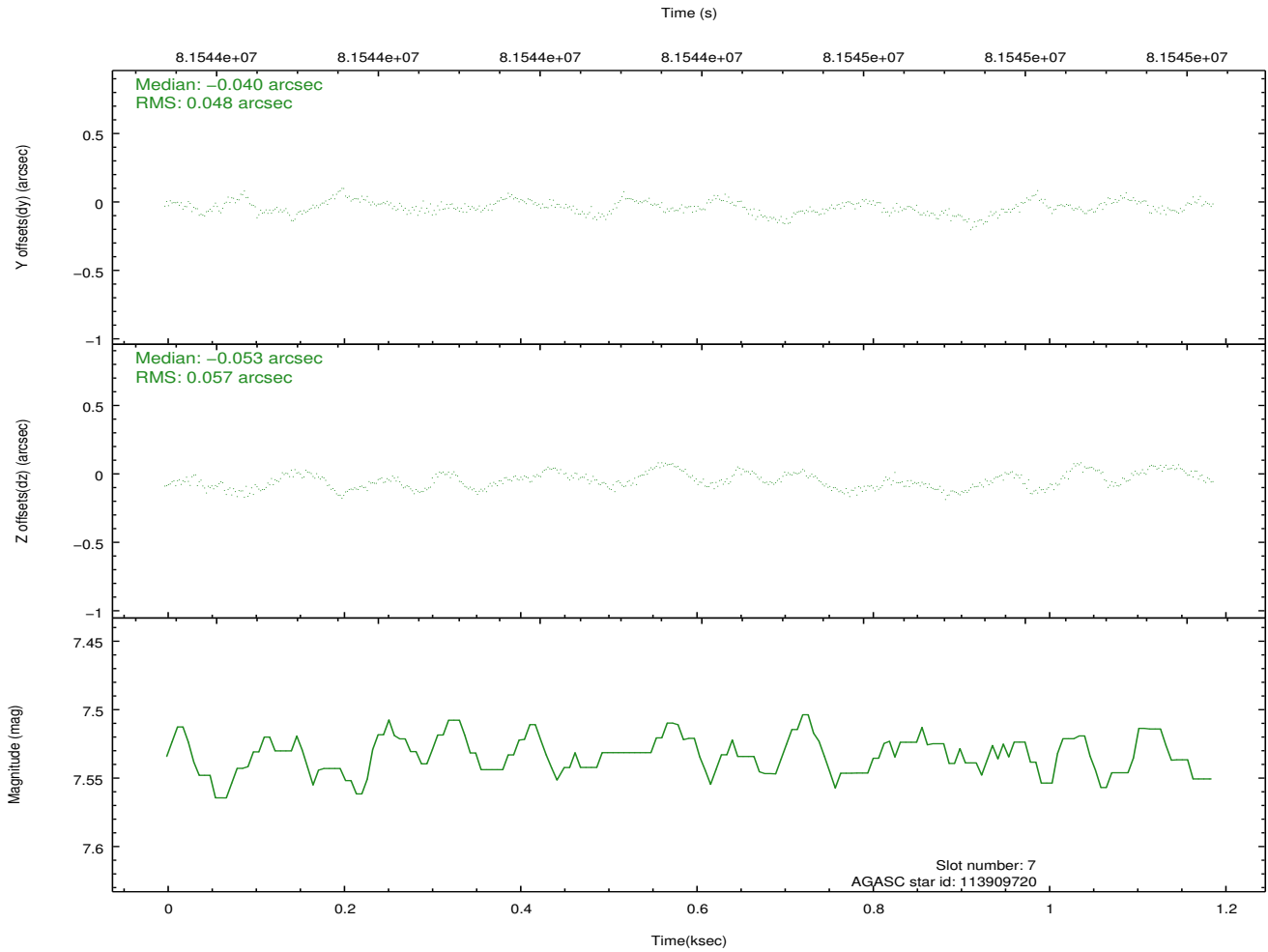
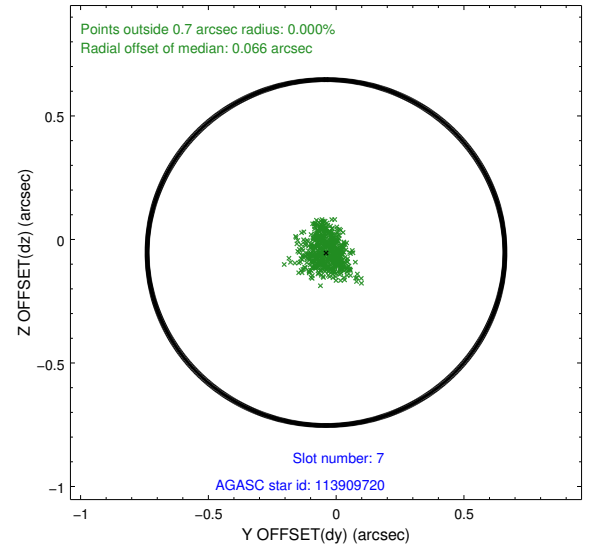
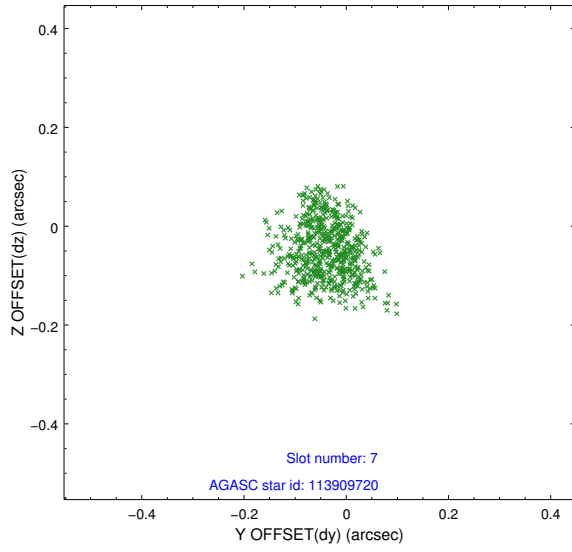
2.4.3 Slot 5



2.4.4 Slot 6

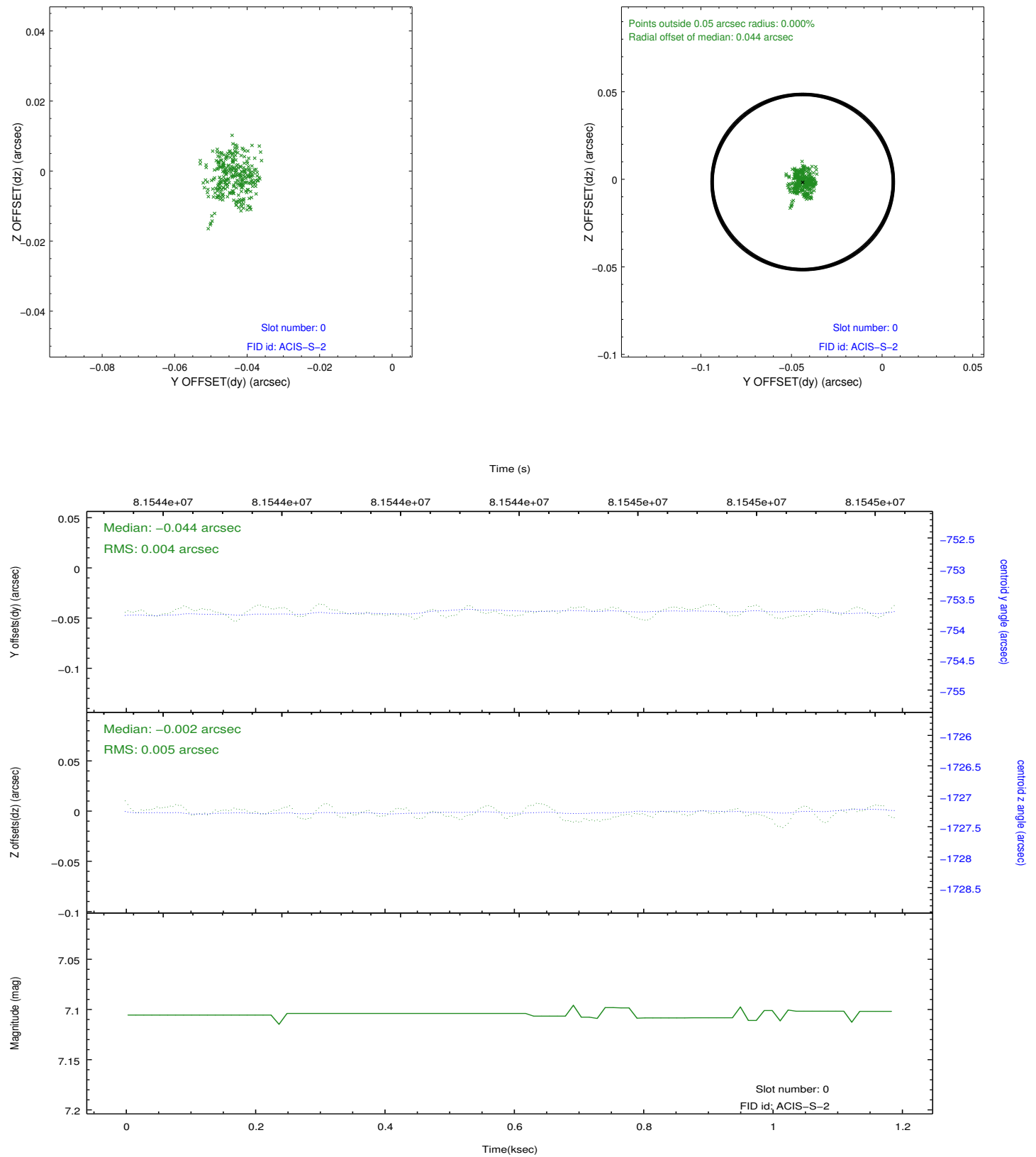


2.4.5 Slot 7

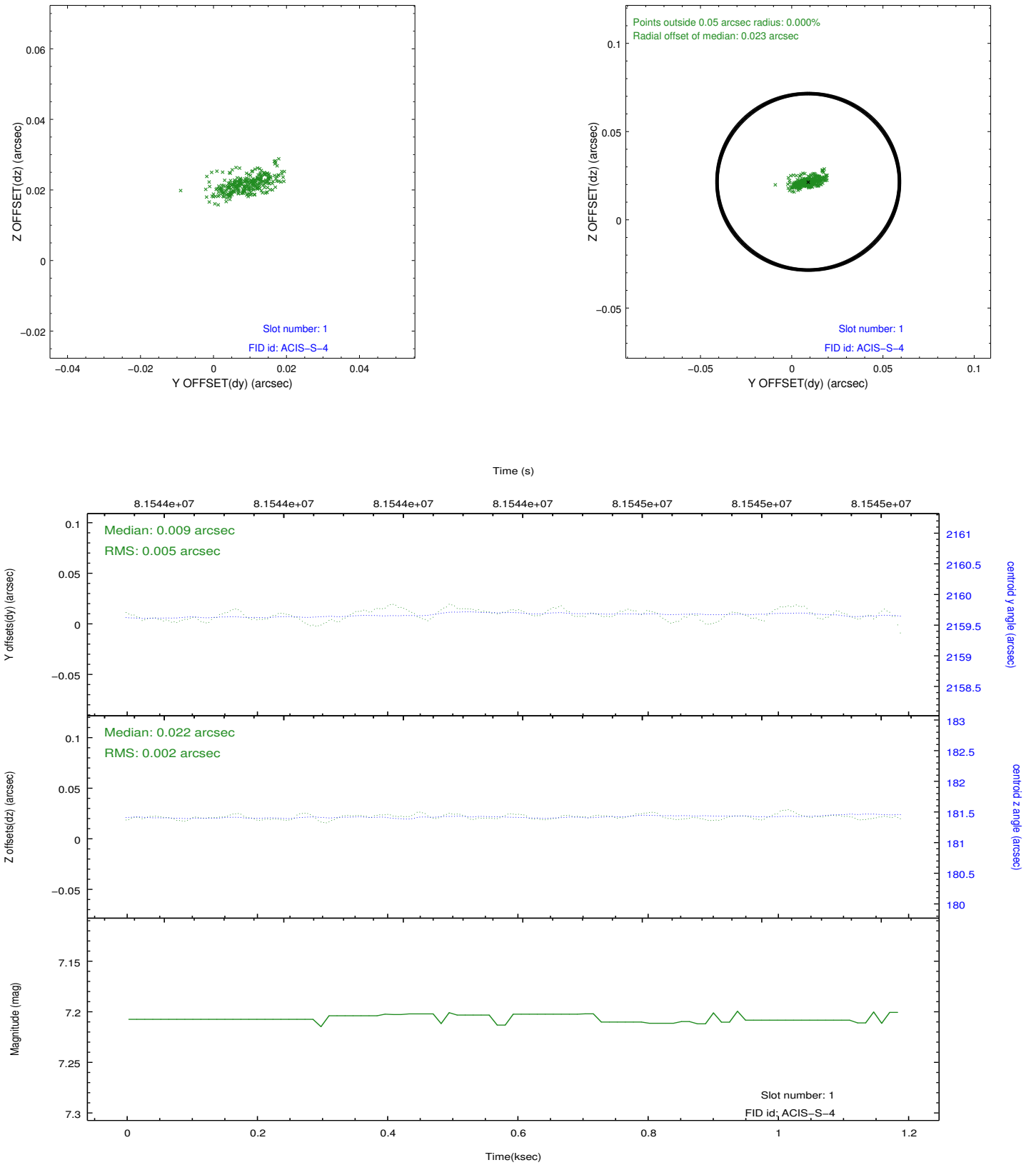


2.5 FID Slots

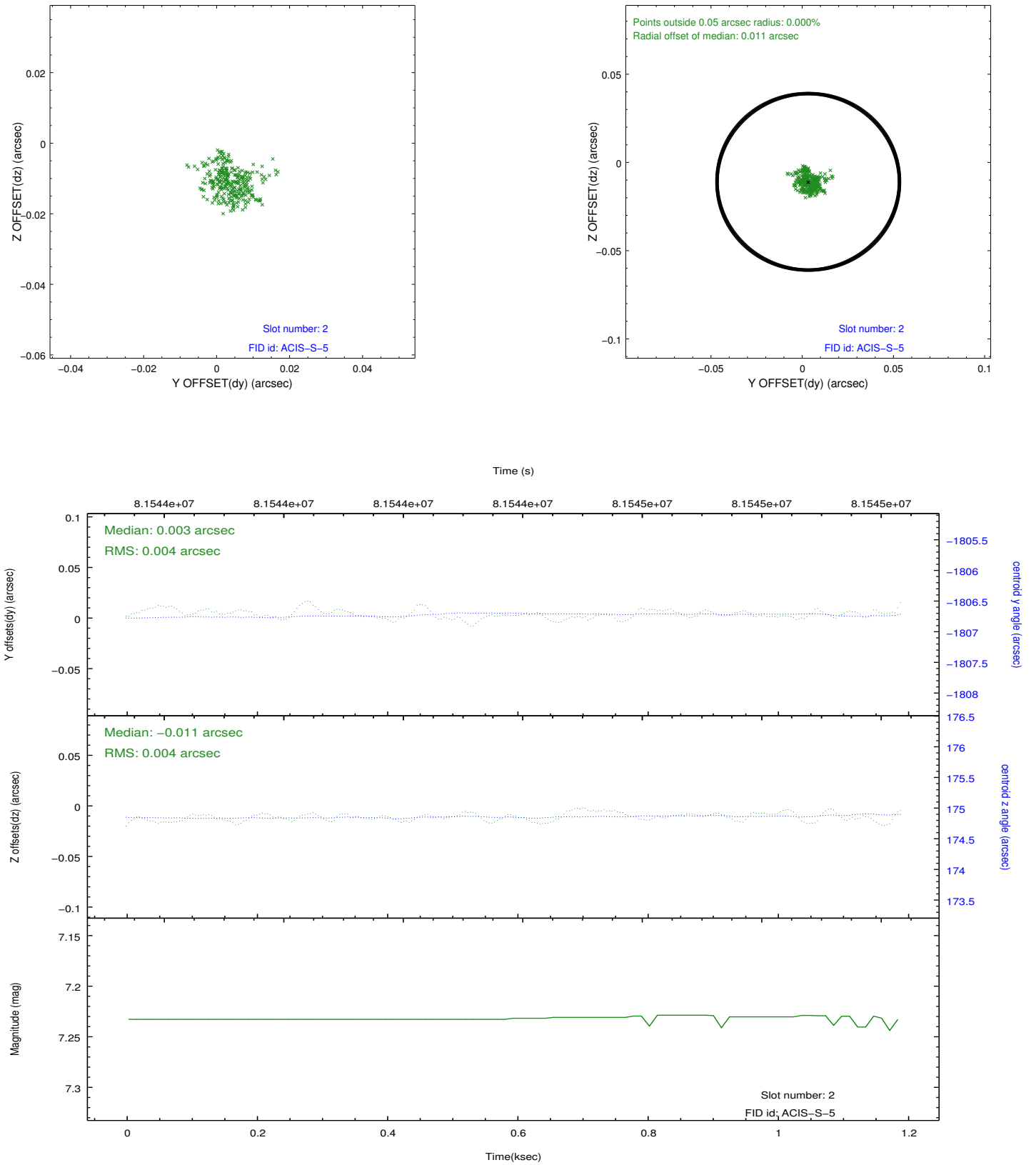
2.5.1 Slot 0



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)	2015.06.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.19

A.2 Comments

Because an aspect solution is determined in a finite time interval, a small number of events registered within the delta time before the first aspect solution do not have proper sky coordinates. We apply a manual workaround to exclude those events with incorrect sky positions until the complete s/w resolution is obtained.