

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 1763 - L2 Version 4
Chandra X-Ray Center

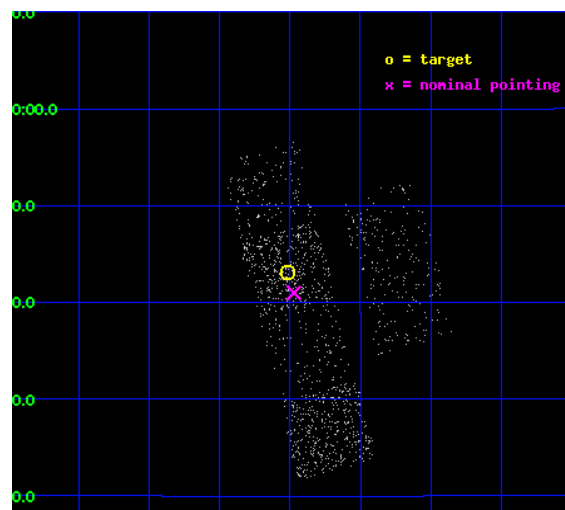
L2 Processing Date : Aug 31 2012

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1 Front

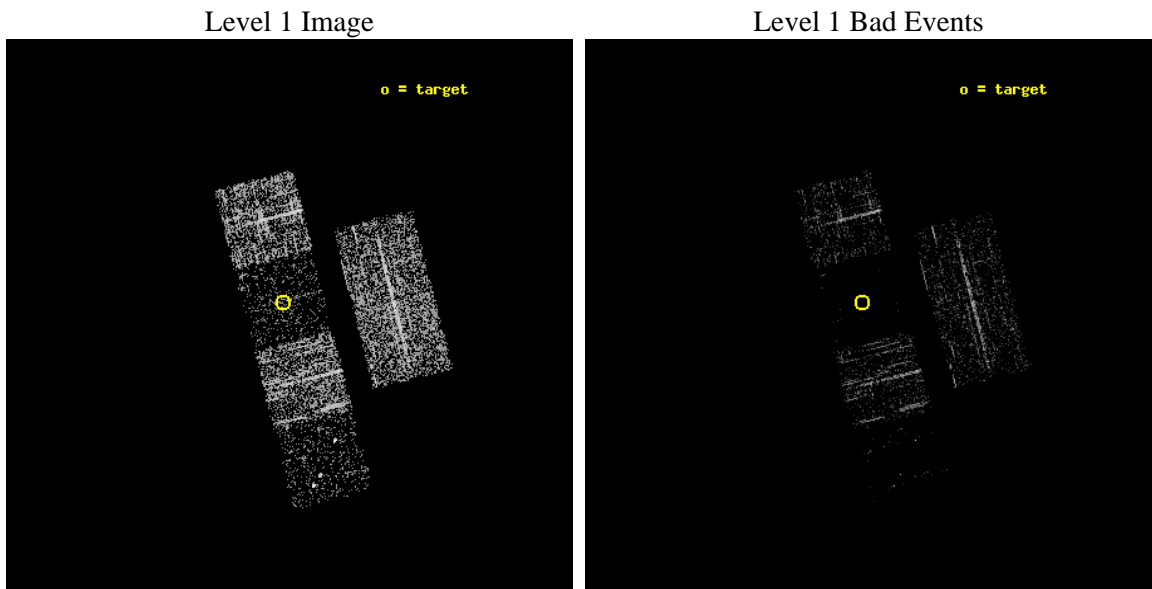
seq_num	100004	Sequence number
obs_id	1763	Observation id
title	AXAF LOW ENERGY SPECTROSCOPY AND PHOTOMETRIC IMAGING OF COMETARY X-RAY EMISSION FROM COMET P/TEMPEL 2	Proposal title
observer	Dr. Carey Lisse	Principal investigator
object	Comet c/LINEAR 1999 S4	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	182.50395	Observer's specified target RA [deg]
dec_targ	10.71947	Observer's specified target Dec [deg]
ra_nom	182.49301298802	Nominal RA [deg]
dec_nom	10.683234290299	Nominal Dec [deg]
roll_nom	255.78770557234	Nominal Roll [deg]
revision	4	Processing version of data
ontime	1190.4000010937	Sum of GTIs [s]
livetime	1175.3264395071	Livetime [s]
ontime2	1190.4000010937	Sum of GTIs [s]
ontime3	1190.4000010937	Sum of GTIs [s]
ontime5	1190.4000010937	Sum of GTIs [s]
ontime6	1190.4000010937	Sum of GTIs [s]
ontime7	1190.4000010937	Sum of GTIs [s]
ontime8	1190.4000010937	Sum of GTIs [s]
l2events	1333	Number of level 2 events



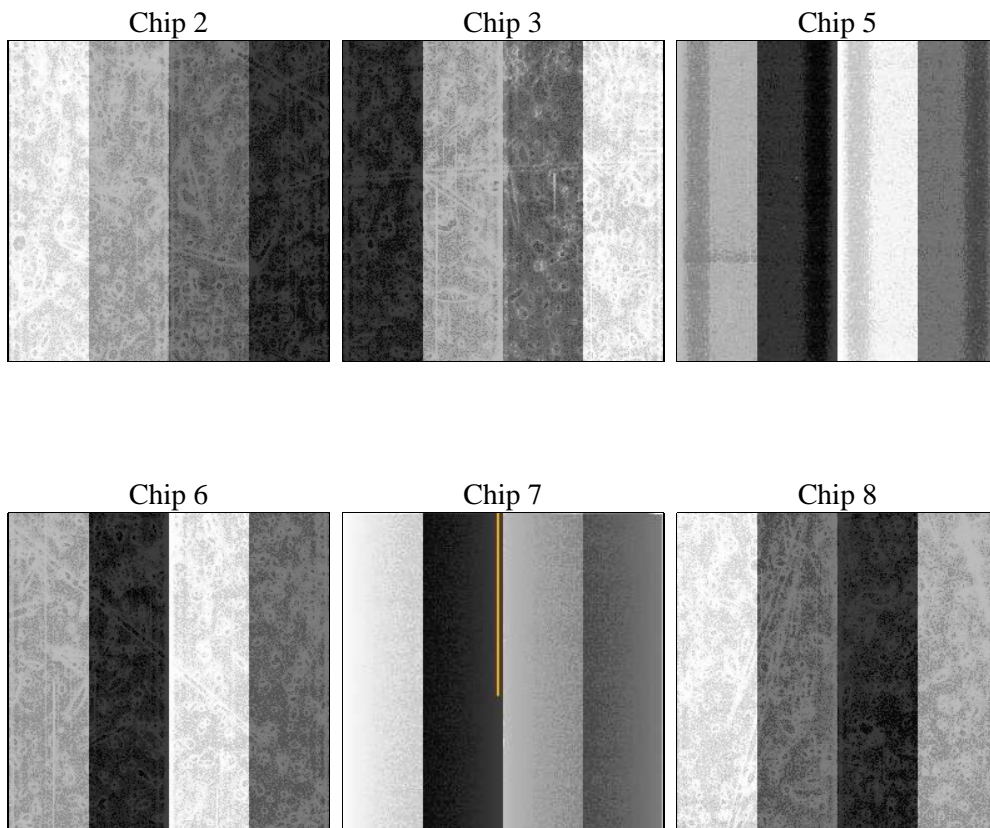
2 OBI

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	1190.4000010937	Sum of GTIs [s]
caldsver	4.5.1.1	 	ontime2	1190.4000010937	Sum of GTIs [s]
date	2012-08-31T12:01:35	Date and time of file creation	ontime3	1190.4000010937	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	1190.4000010937	Sum of GTIs [s]
			ontime6	1190.4000010937	Sum of GTIs [s]
			ontime7	1190.4000010937	Sum of GTIs [s]
			ontime8	1190.4000010937	Sum of GTIs [s]
			l1events	24528	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	5672	5145	1382	5650	788	5891
rejected events	5490	4993	475	5486	278	5028
rejected %	96%	97%	34%	97%	35%	85%

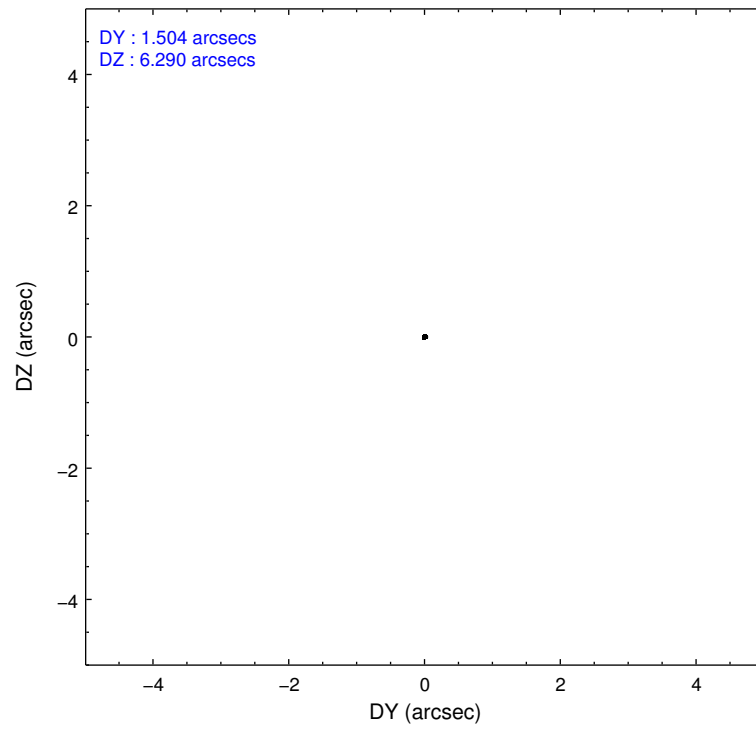
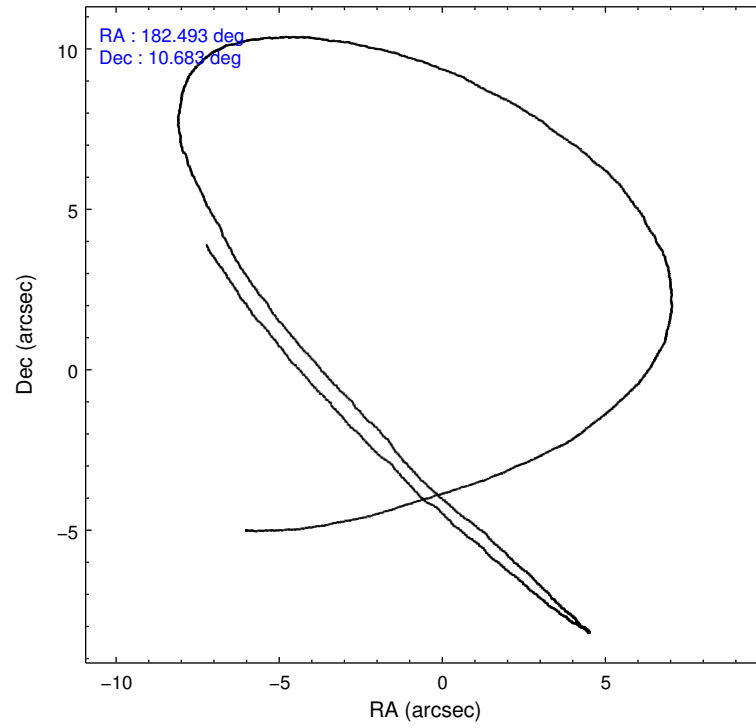
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	91	111	622	100	206	360
	1%	2%	45%	1%	26%	6%
grade 1 events	0	1	13	2	6	4
	0%	0%	0%	0%	0%	0%
grade 2 events	55	17	329	37	223	239
	0%	0%	23%	0%	28%	4%
grade 3 events	37	28	82	28	95	144
	0%	0%	5%	0%	12%	2%
grade 4 events	35	34	73	30	77	122
	0%	0%	5%	0%	9%	2%
grade 5 events	5	5	35	7	15	23
	0%	0%	2%	0%	1%	0%
grade 6 events	17	17	58	14	62	298
	0%	0%	4%	0%	7%	5%
grade 7 events	5432	4932	170	5432	104	4701
	95%	95%	12%	96%	13%	79%

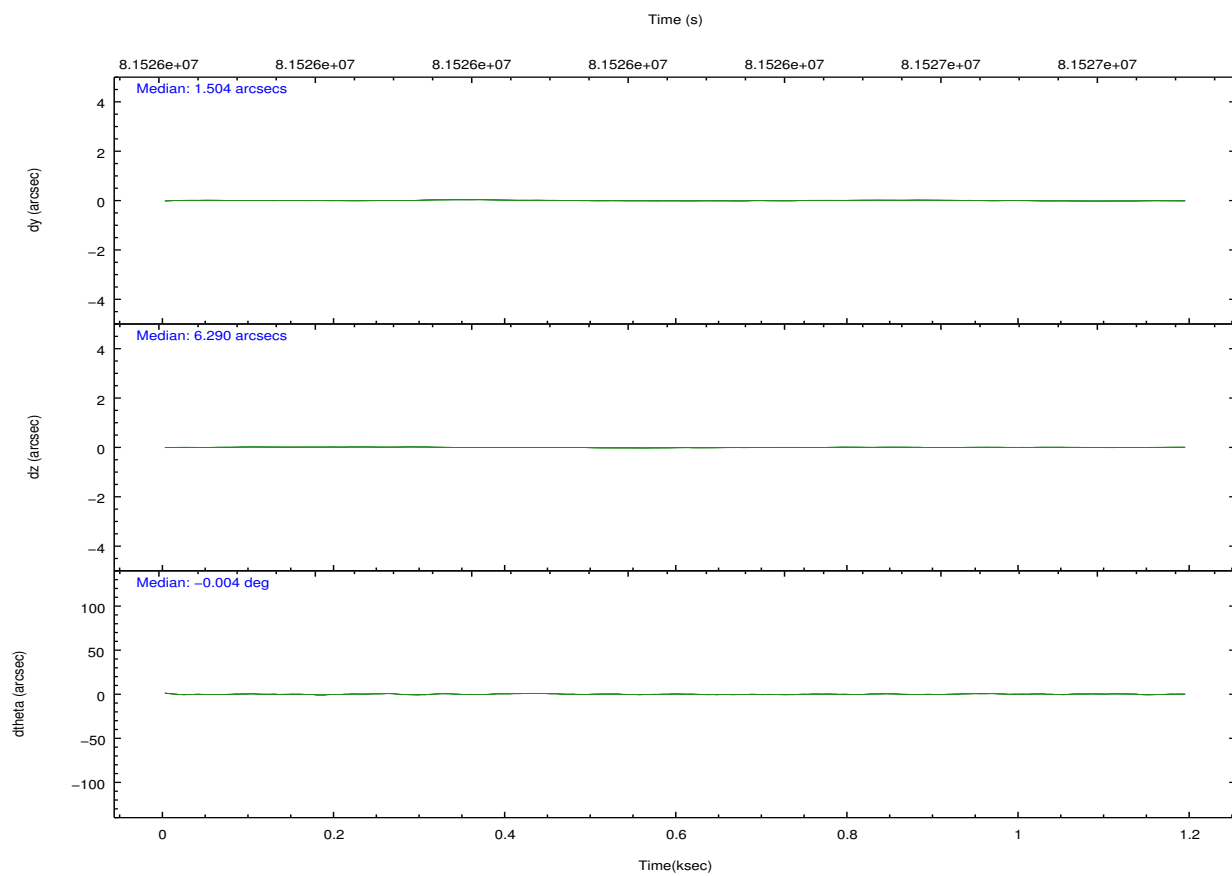
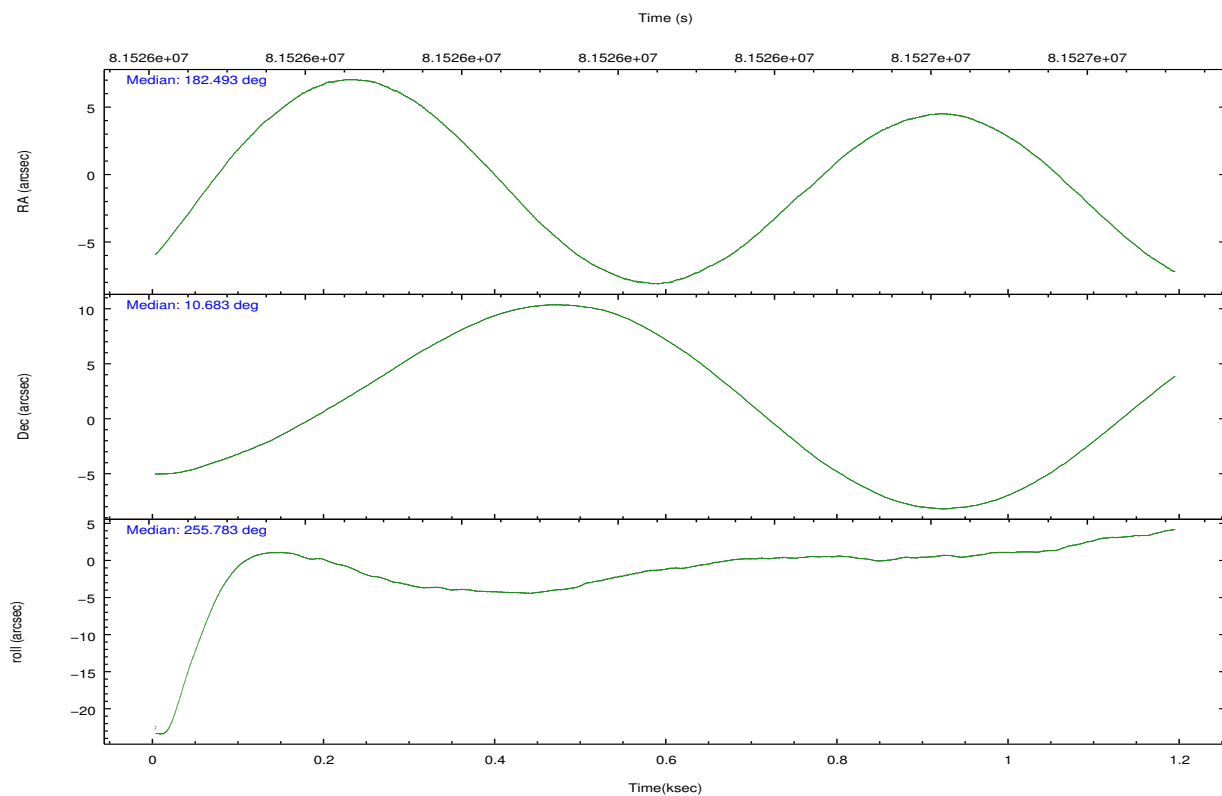
2.2 Compared Parameters

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	182.484961	182.493012988021
[deg] Pointing Dec	10.709796	10.68323429029942
[deg] Pointing Roll	255.632692	255.7877055723359
[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)	81525860.184000	81525484.15327799
Observation start date	2000-08-01T14:03:16	2000-08-01T13:58:04
[s] Observation end time (MET)	81526860.184000	81526994.490834
Observation end date	2000-08-01T14:19:56	2000-08-01T14:23:14
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



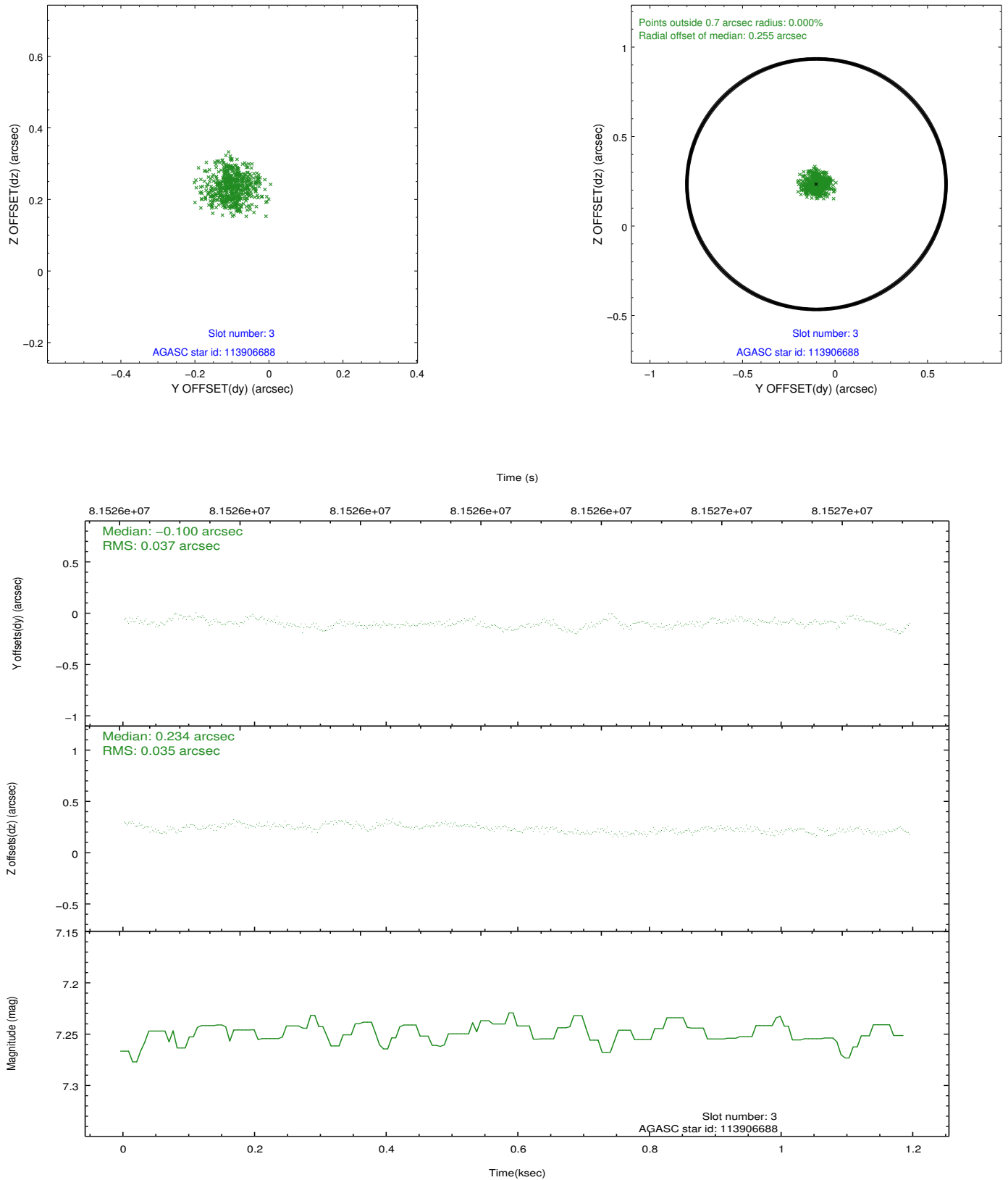


Slot Statistics

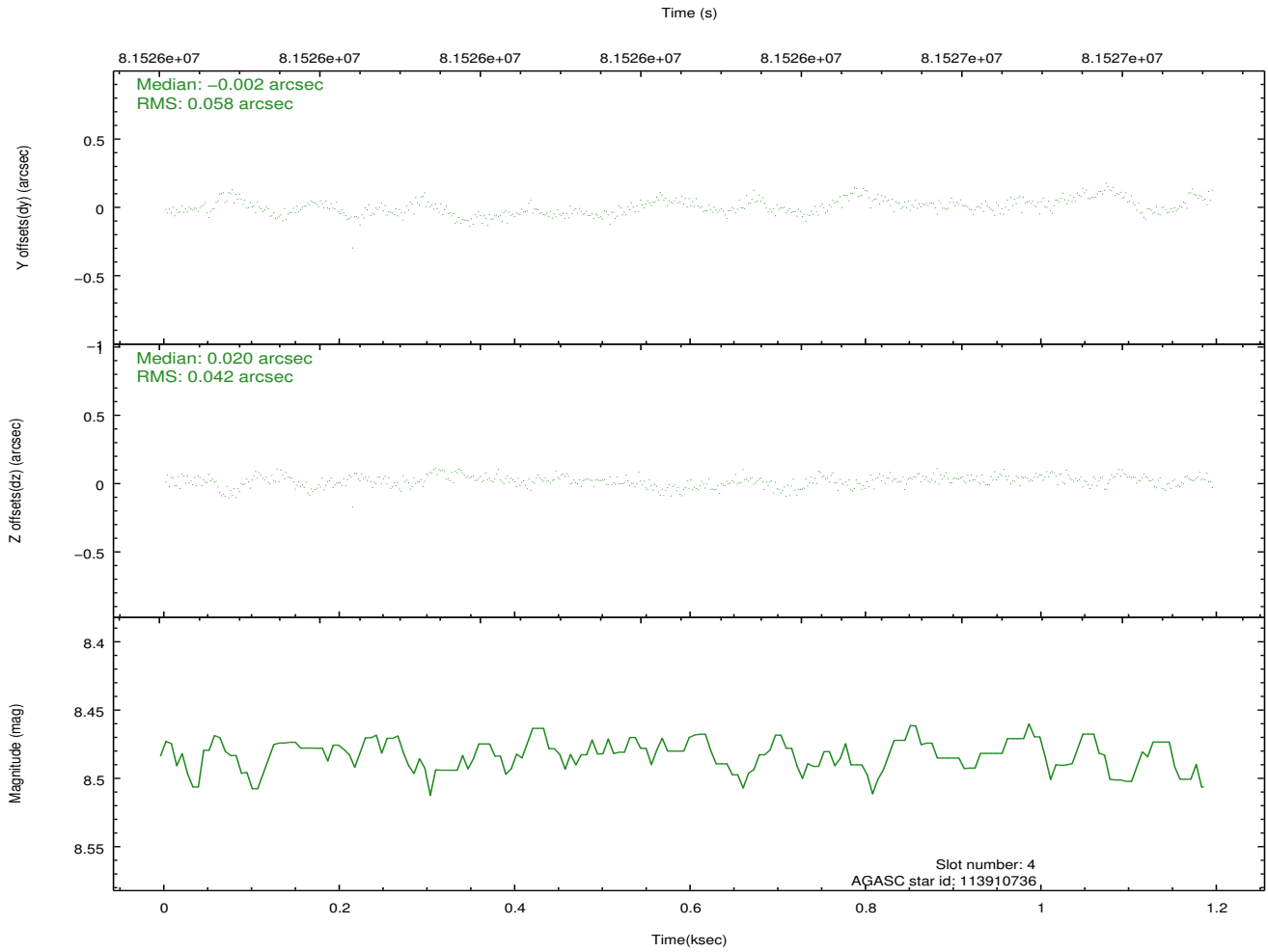
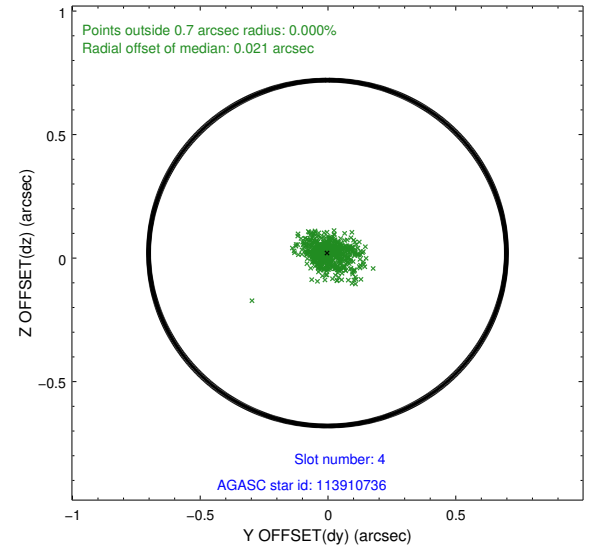
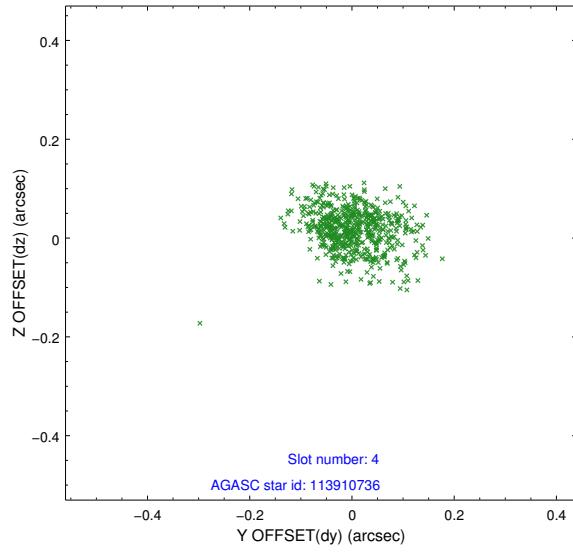
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	291	-0.033	0.012	0.006	0.012	0.000000	0.000000	-754.14	-1727.37
1	FID	ACIS-S-4	7.21	291	-0.027	0.012	0.007	0.013	0.000000	0.000000	2156.62	175.34
2	FID	ACIS-S-5	7.23	291	0.028	-0.016	0.007	0.014	0.000000	0.000000	-1799.71	175.33
3	GUIDE	113906688	7.25	583	-0.100	0.234	0.055	0.085	183.194115	11.111362	-2024.98	2065.77
4	GUIDE	113910736	8.48	583	-0.002	0.020	0.071	0.127	181.816666	10.531380	1203.71	-2130.65
5	GUIDE	113908584	8.62	582	-0.358	-0.350	0.149	0.222	182.320674	11.291738	-1883.64	-1087.63
6	GUIDE	113909952	9.87	583	0.212	0.229	0.103	0.166	182.703120	10.082649	1992.10	1306.15
7	GUIDE	113905264	10.19	581	0.248	-0.127	0.117	0.181	182.445692	10.343633	1315.34	192.91

2.4 Star Slots

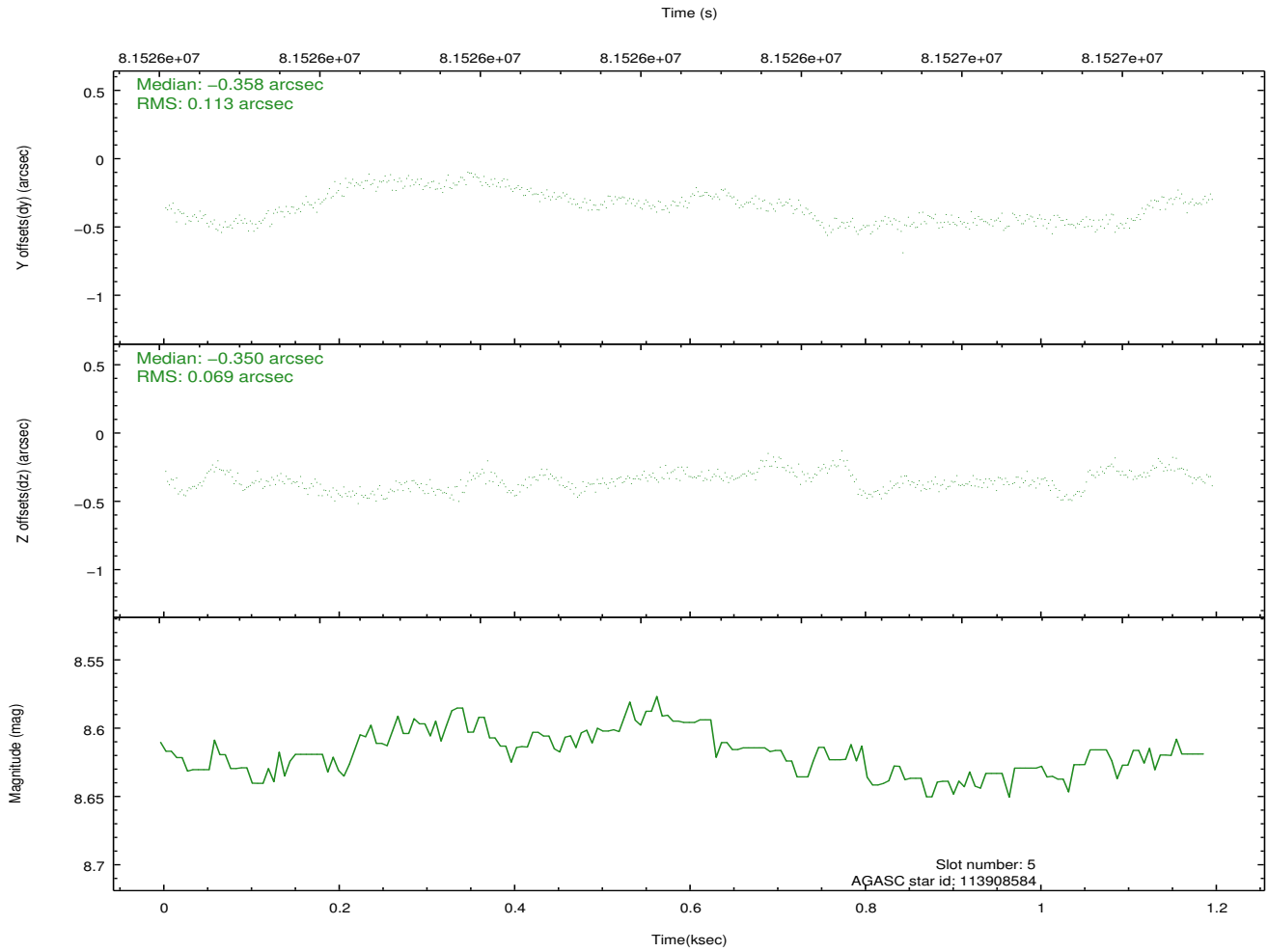
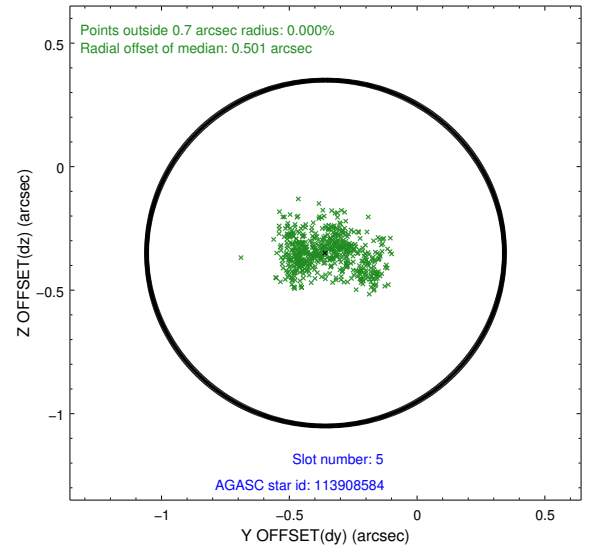
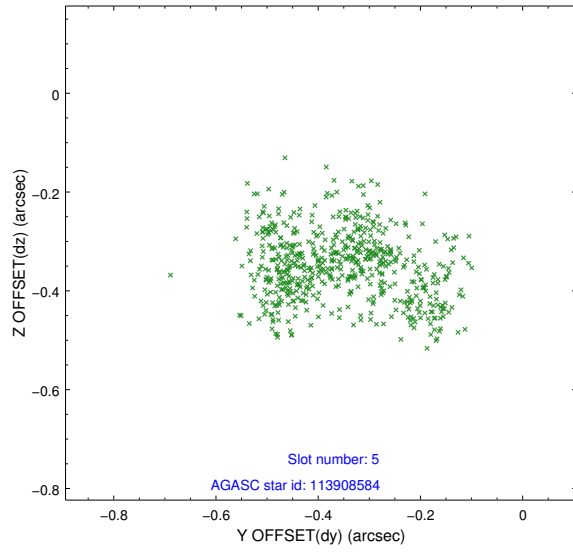
2.4.1 Slot 3



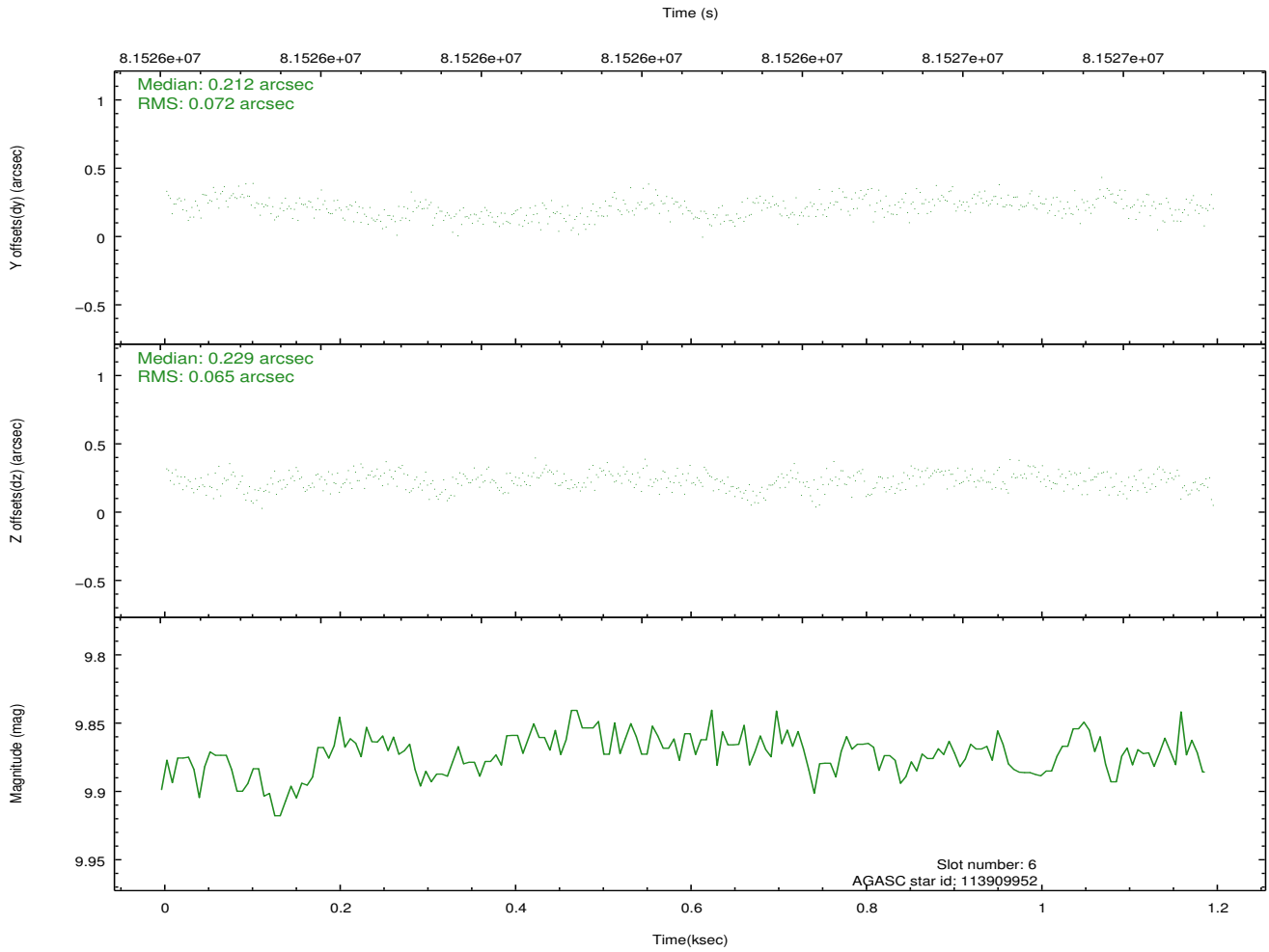
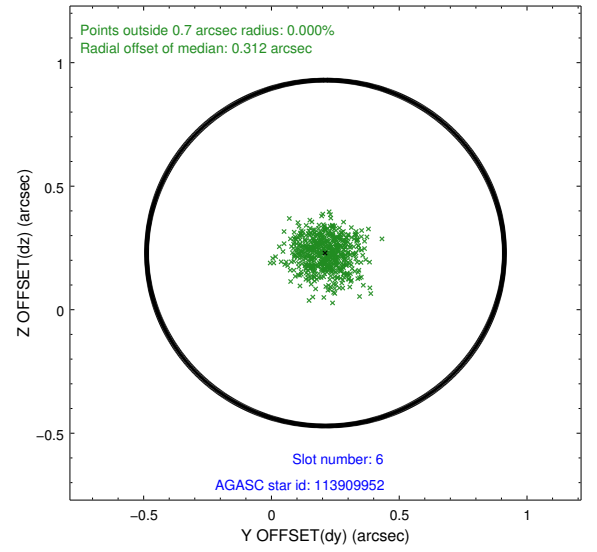
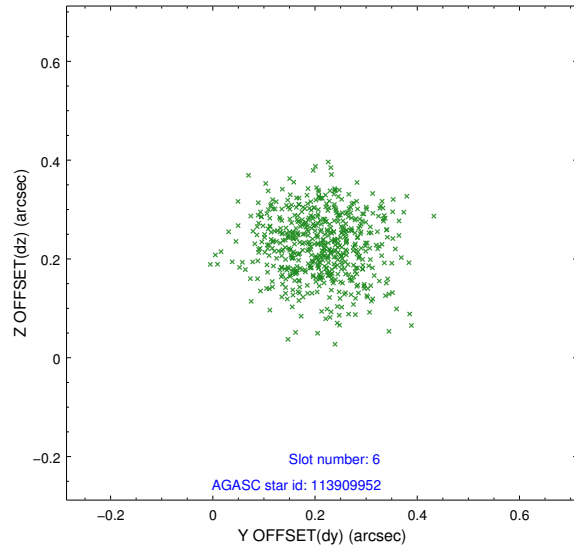
2.4.2 Slot 4



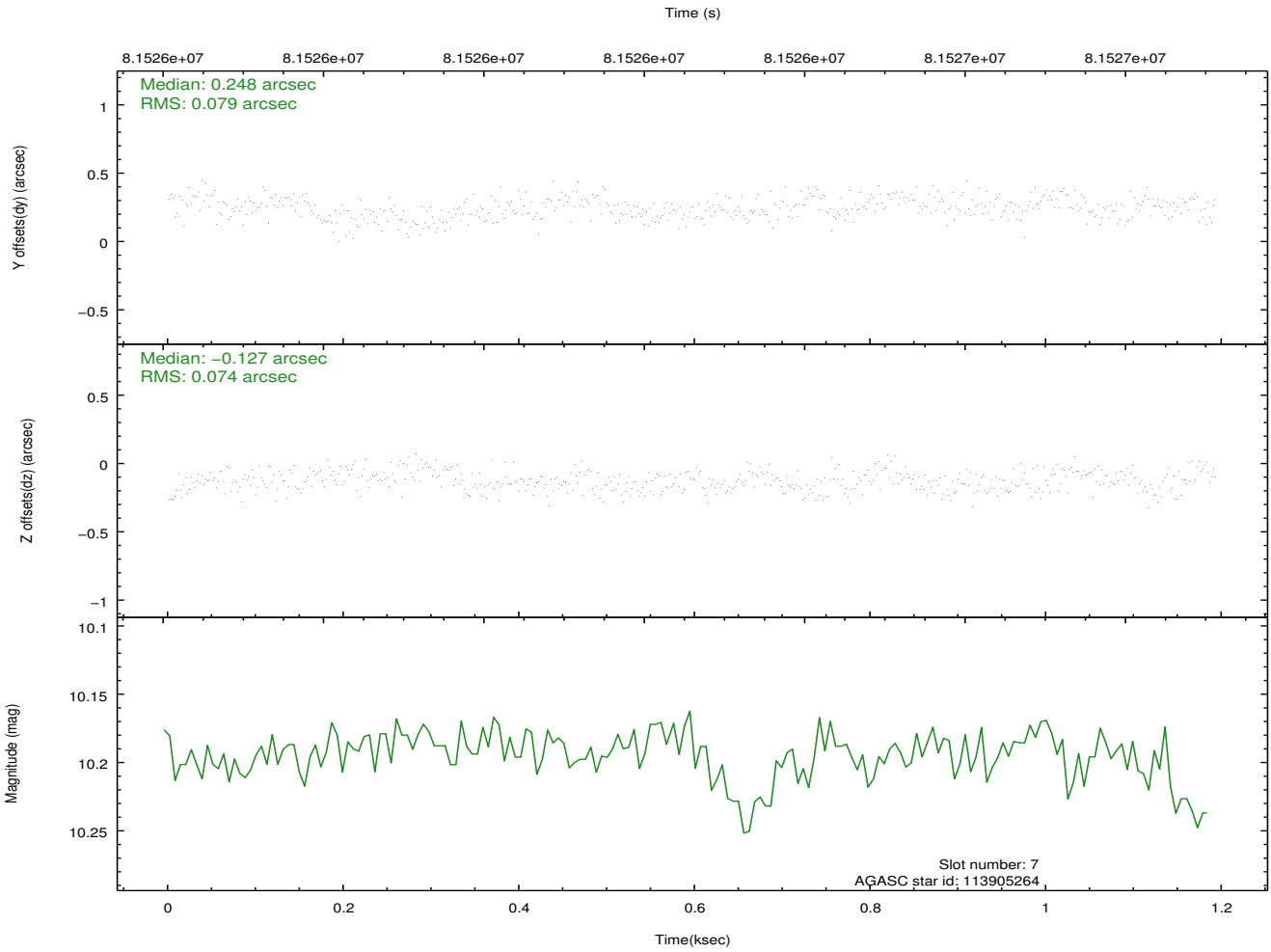
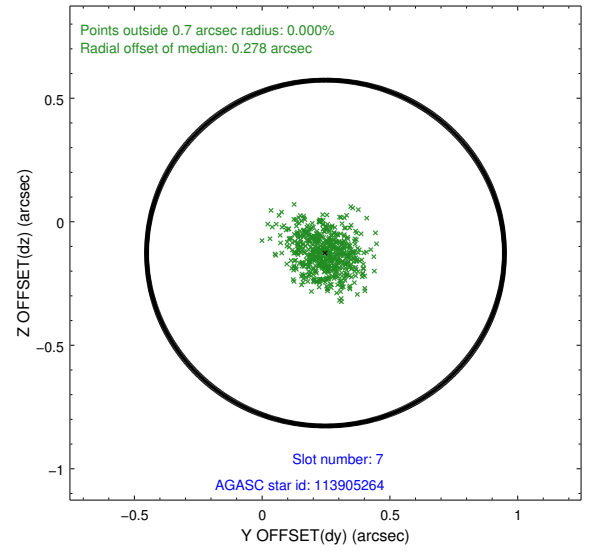
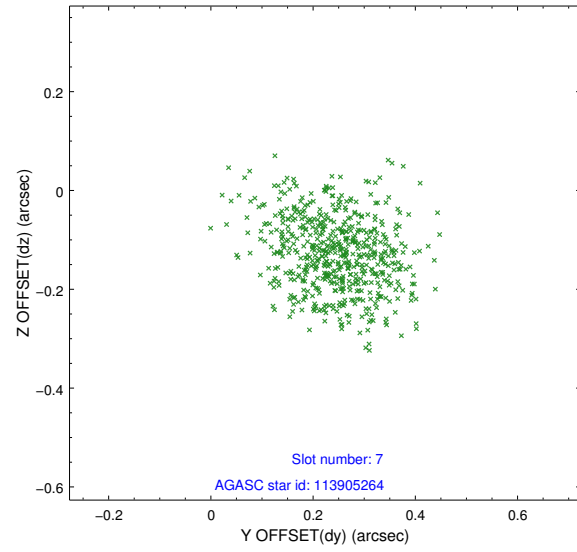
2.4.3 Slot 5



2.4.4 Slot 6

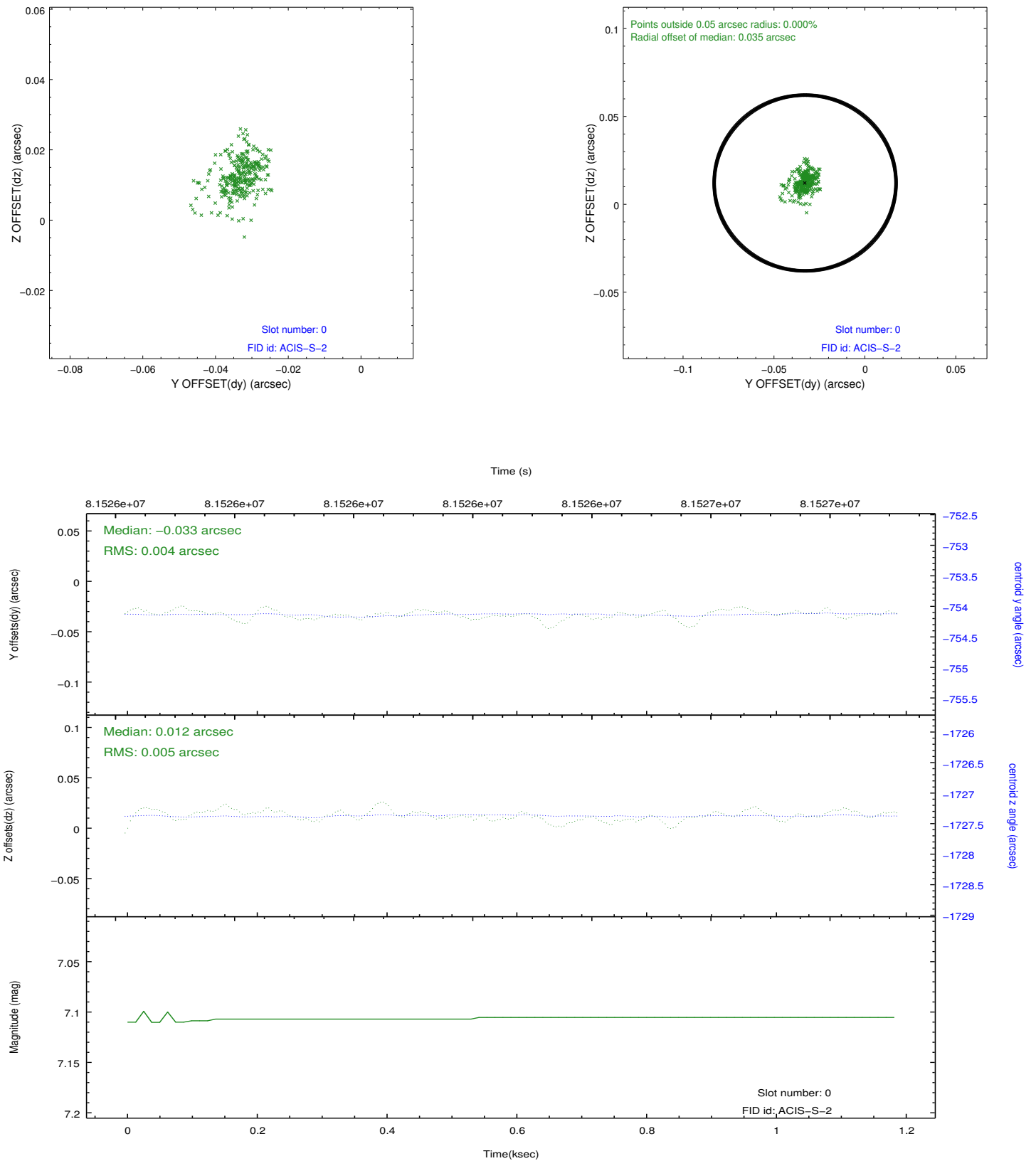


2.4.5 Slot 7

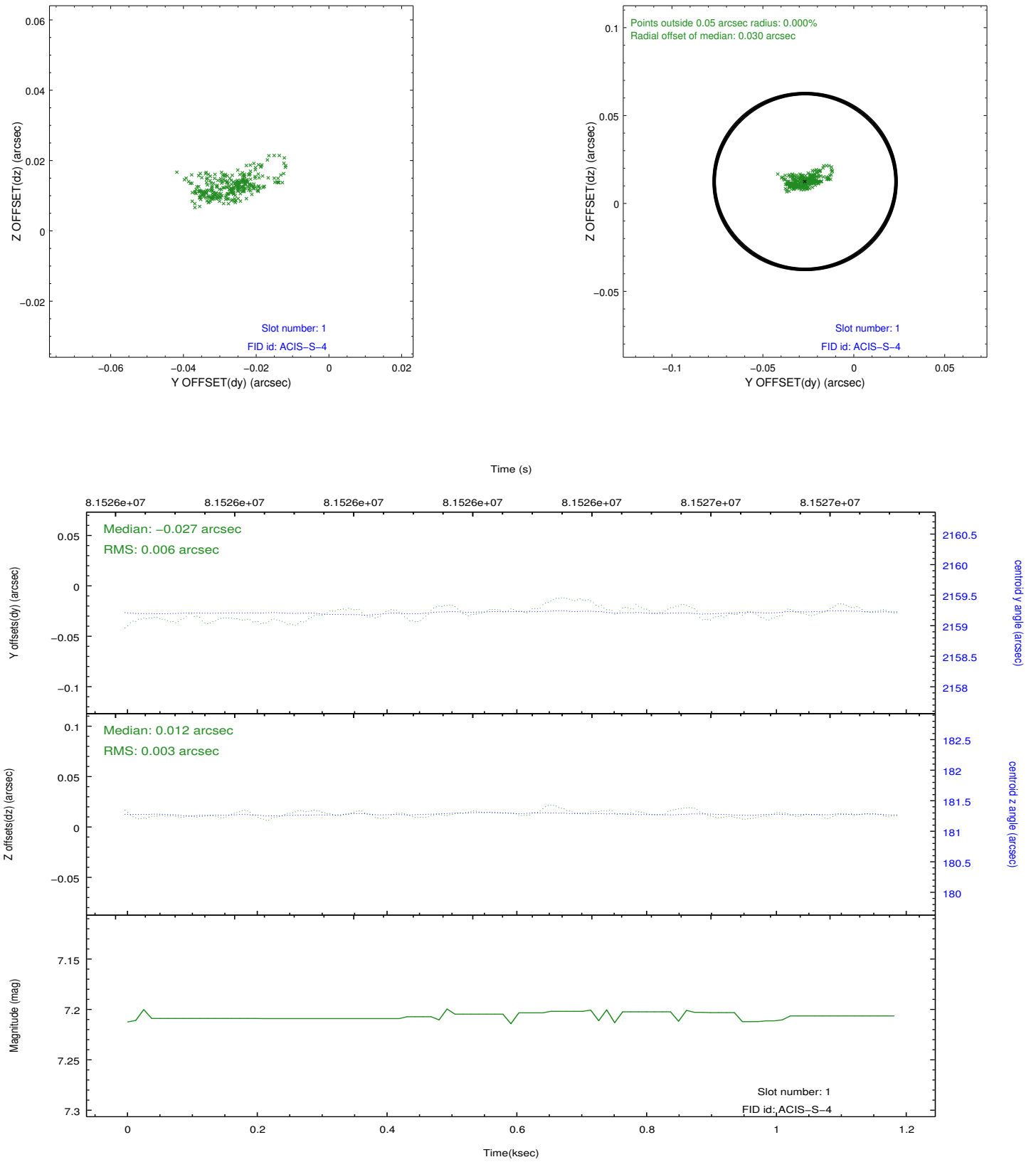


2.5 FID Slots

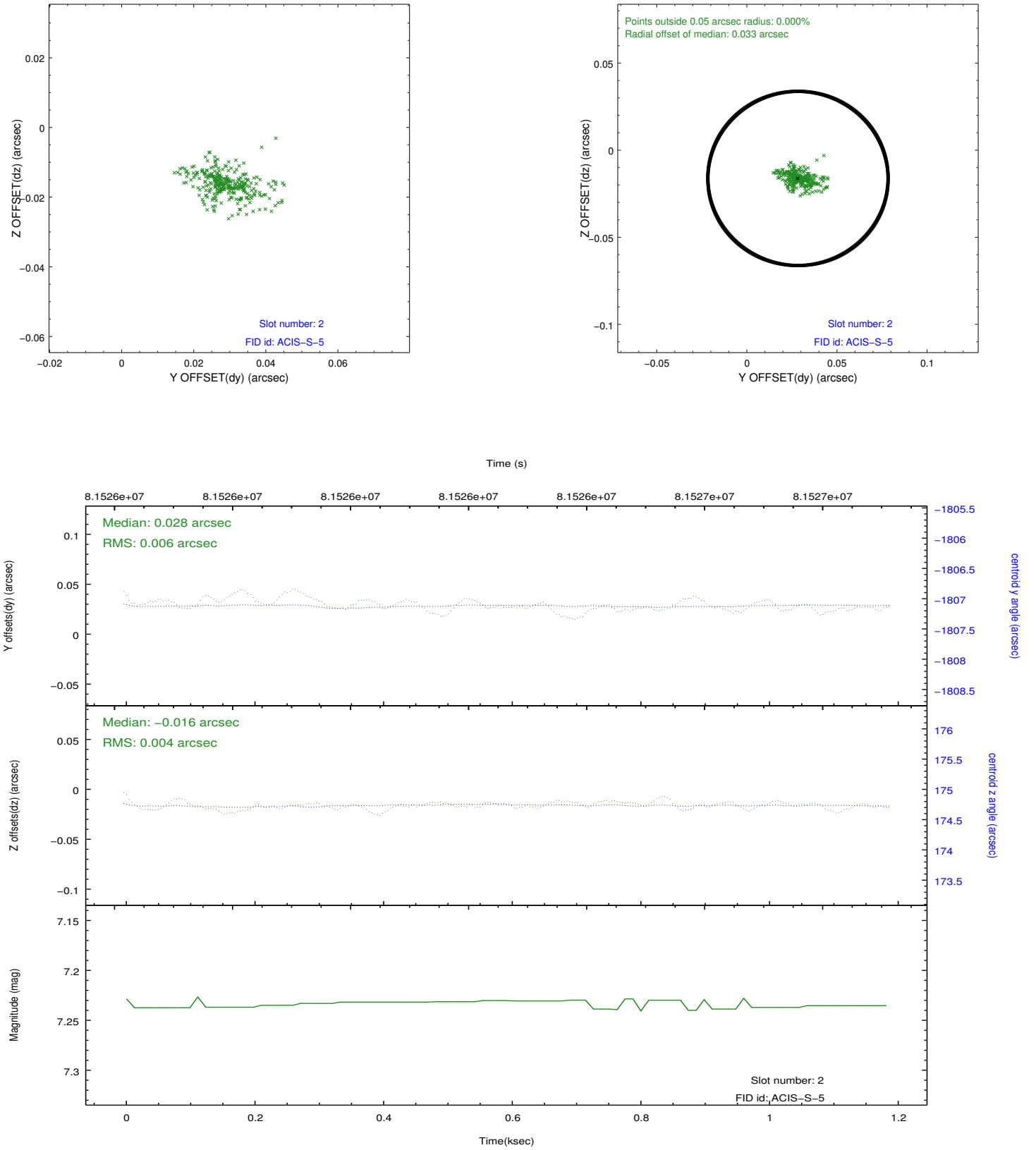
2.5.1 Slot 0



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	1.19

A.2 Comments

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.