

V&V Reference Report

L2 ASCDS Version : 8.4.3.1

Observation 6965 - L2 Version 2
Chandra X-Ray Center

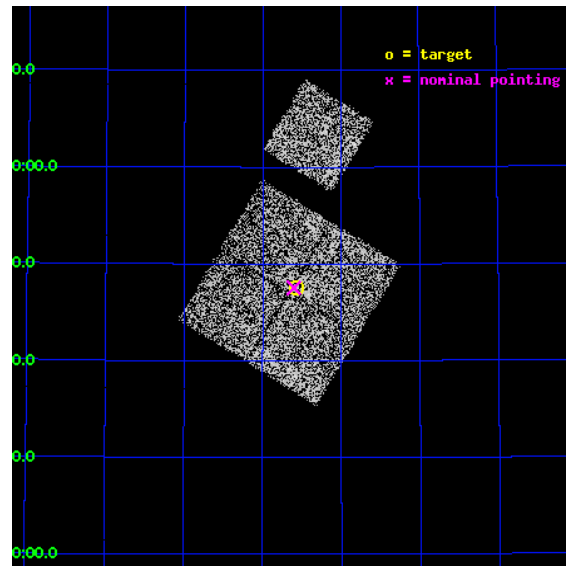
L2 Processing Date : Apr 11 2012

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1 Front

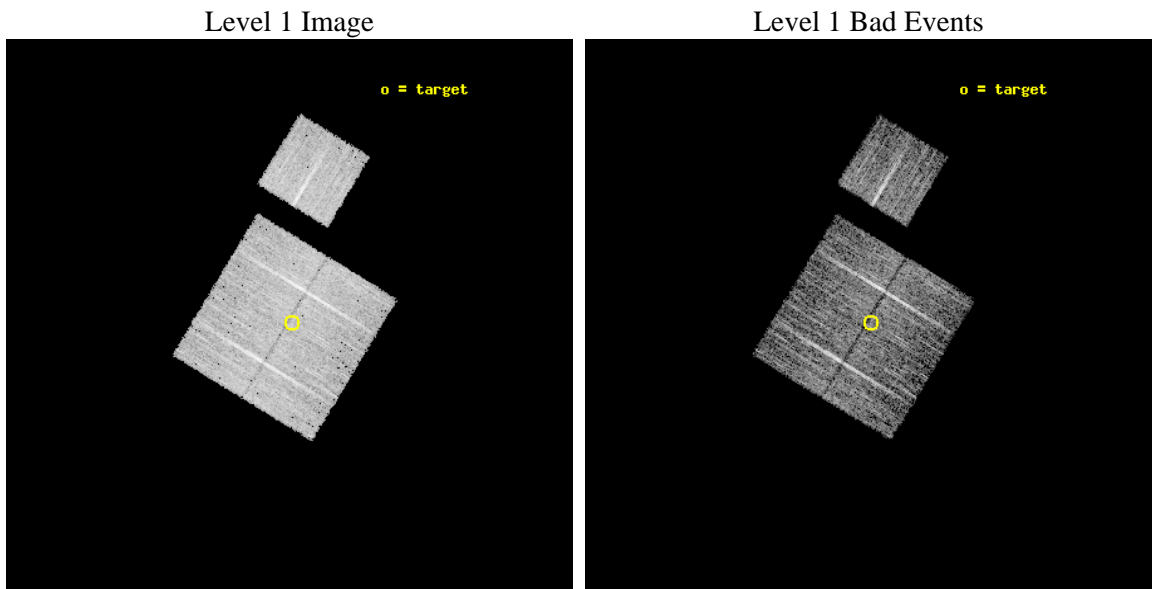
seq_num	800598	Sequence number
obs_id	6965	Observation id
title	A Search for the Origin of Ultrahigh Energy Cosmic Rays	Proposal t
observer	Prof. David Helfand	Principal investigator
object	P9	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	168.642	Observer's specified target RA [deg]
dec_targ	56.7917	Observer's specified target Dec [deg]
ra_nom	168.65044019648	Nominal RA [deg]
dec_nom	56.792326568154	Nominal Dec [deg]
roll_nom	31.328803901445	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5043.4944264293	Sum of GTIs [s]
liveltime	4977.5974587814	Livetime [s]
ontime0	5046.5121771097	Sum of GTIs [s]
ontime1	5046.553217113	Sum of GTIs [s]
ontime2	5043.4532669187	Sum of GTIs [s]
ontime3	5043.4944264293	Sum of GTIs [s]
ontime6	5046.4711371064	Sum of GTIs [s]
l2events	16171	Number of level 2 events



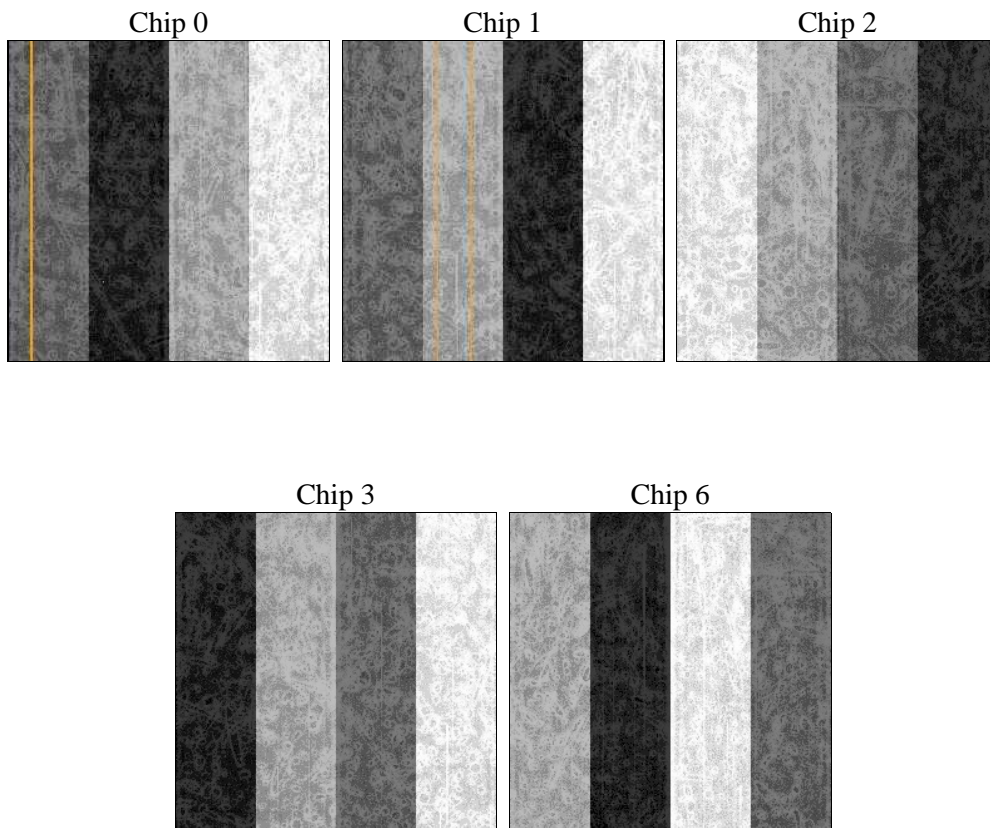
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3.1	Processing system revision	ontime	5043.4944264293	Sum of GTIs [s]
caldsver	4.4.9	 	ontime0	5046.5121771097	Sum of GTIs [s]
date	2012-04-11T14:41:57	Date and time of file creation	ontime1	5046.553217113	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	5043.4532669187	Sum of GTIs [s]
			ontime3	5043.4944264293	Sum of GTIs [s]
			ontime6	5046.4711371064	Sum of GTIs [s]
			l1events	194931	Number of level 1 events

2.1.4 Events

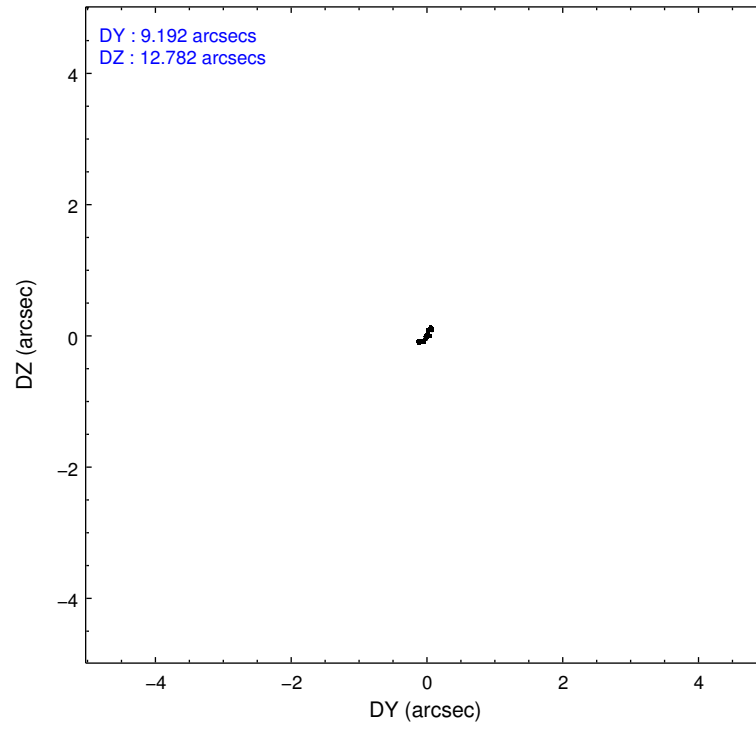
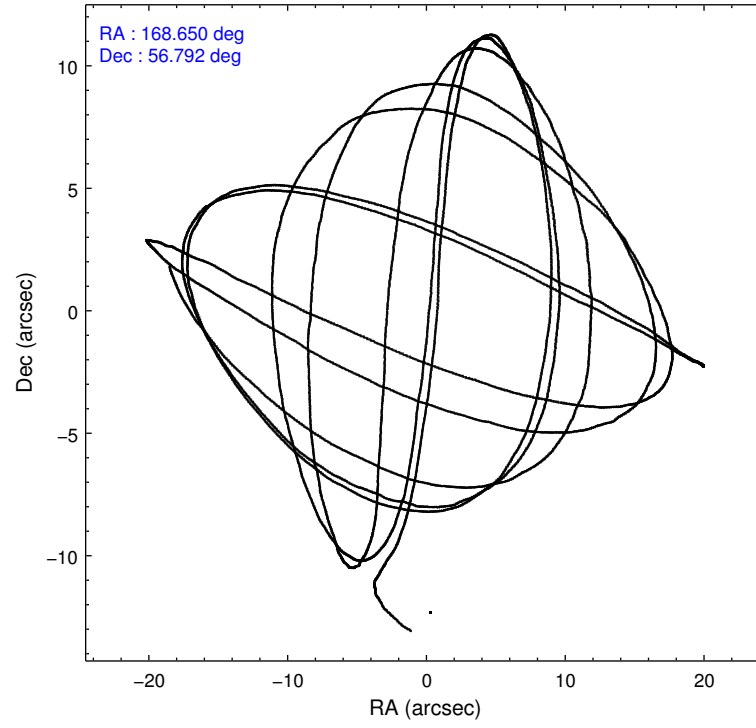
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	38336	37523	40207	38386	40479
rejected events	34588	33162	36532	34820	36388
rejected %	90%	88%	90%	90%	89%

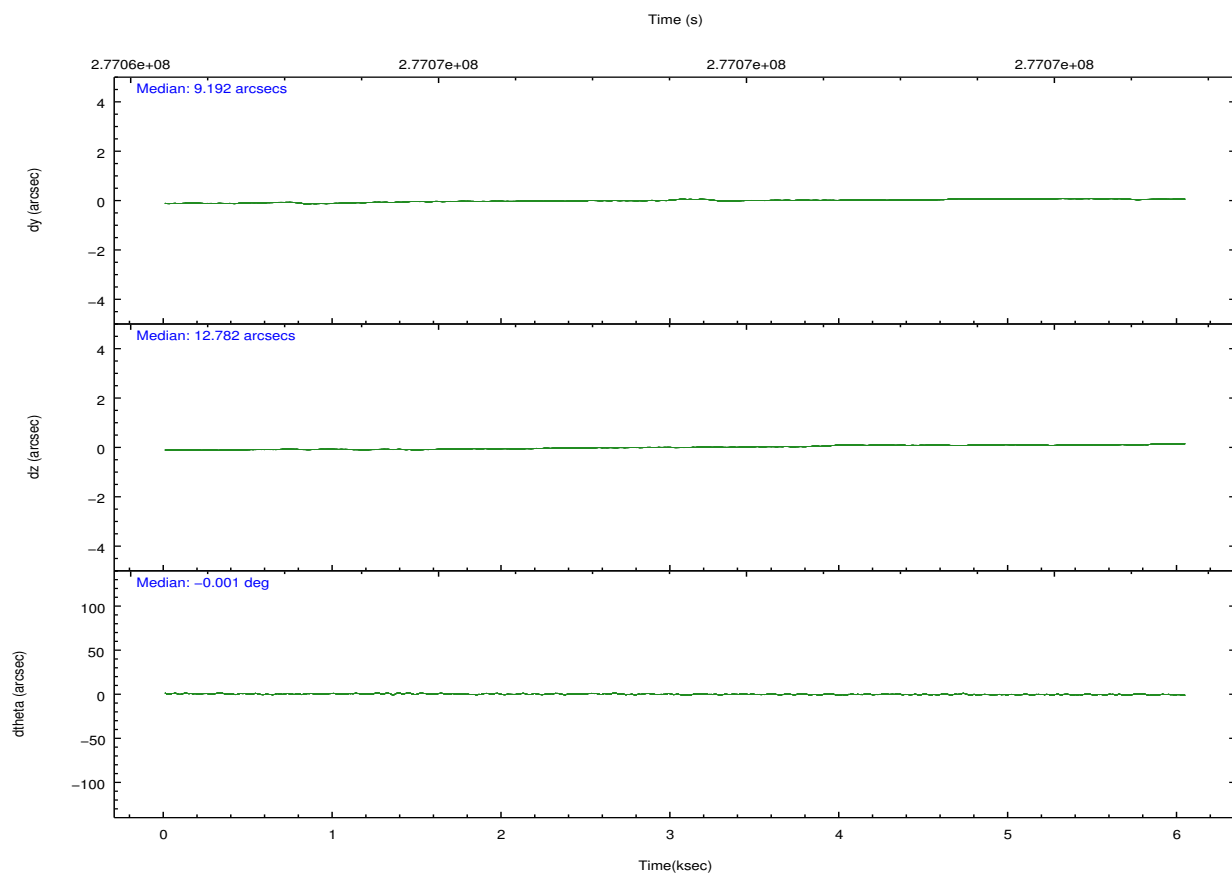
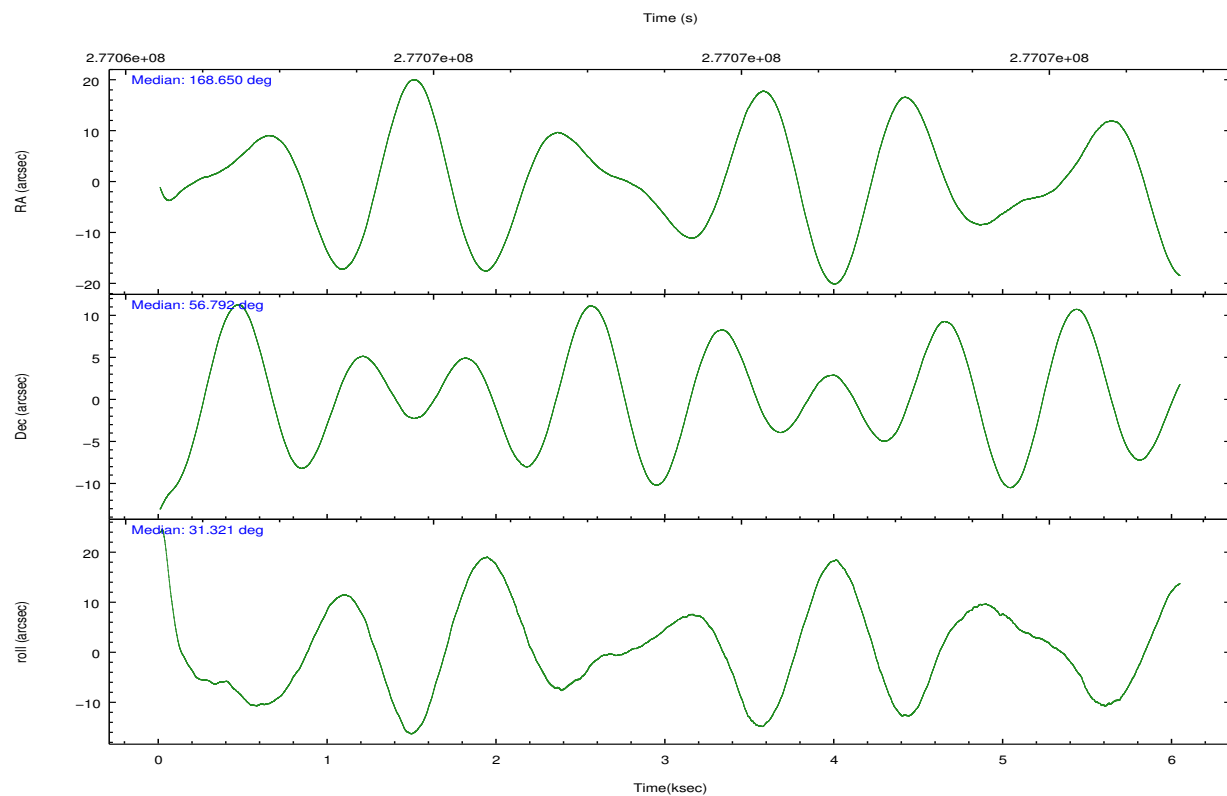
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	1263	1554	1328	1190	1435
	3%	4%	3%	3%	3%
grade 1 events	26	18	23	21	13
	0%	0%	0%	0%	0%
grade 2 events	973	996	844	840	909
	2%	2%	2%	2%	2%
grade 3 events	393	474	396	425	411
	1%	1%	0%	1%	1%
grade 4 events	387	476	429	401	449
	1%	1%	1%	1%	1%
grade 5 events	1265	1422	1338	1484	1549
	3%	3%	3%	3%	3%
grade 6 events	733	863	678	712	889
	1%	2%	1%	1%	2%
grade 7 events	33296	31720	35171	33313	34824
	86%	84%	87%	86%	86%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	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	168.626569	168.6504401964839	Subarray requested	NONE	NONE
[deg] Pointing Dec	56.768293	56.79232656815445	Alternating exposures requested	N	N
[deg] Pointing Roll	31.140041	31.32880390144483	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	277065561.184000	277064058.84003			
Observation start date	2006-10-12T18:38:16	2006-10-12T18:14:18			
[s] Observation end time (MET)	277070561.184000	277070695.71535			
Observation end date	2006-10-12T20:01:36	2006-10-12T20:04:55			
Read mode	TIMED	TIMED			

2.3 Aspect



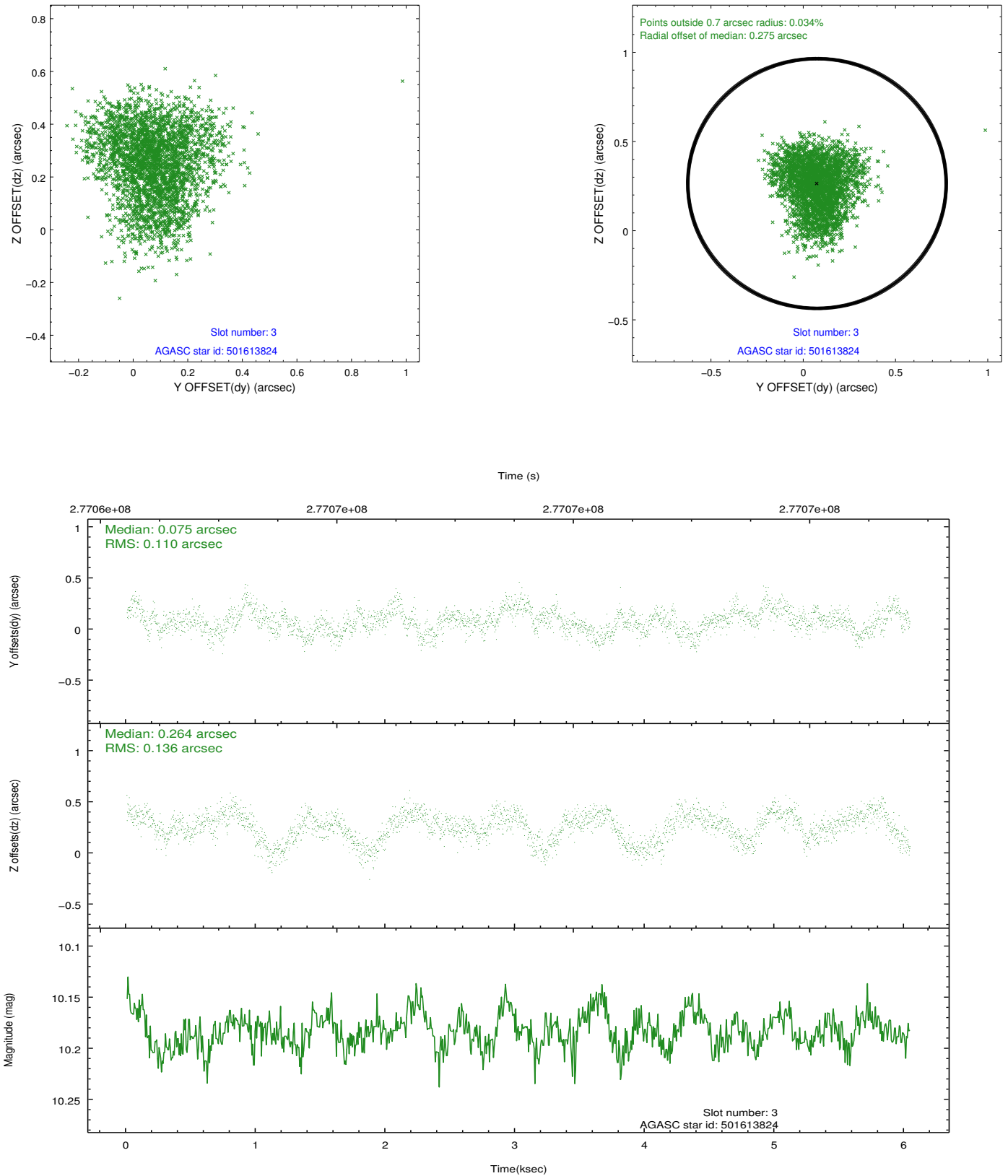


Slot Statistics

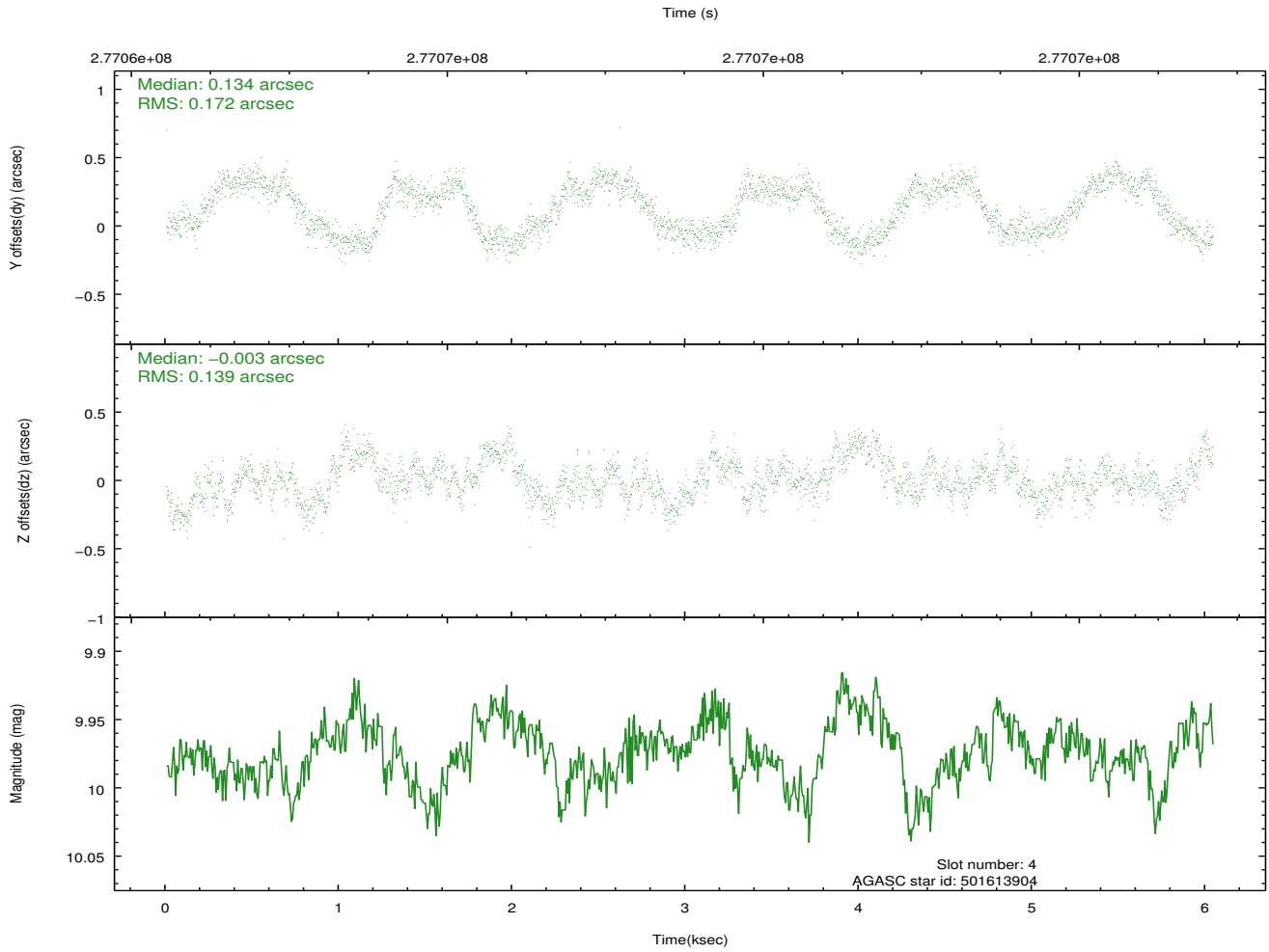
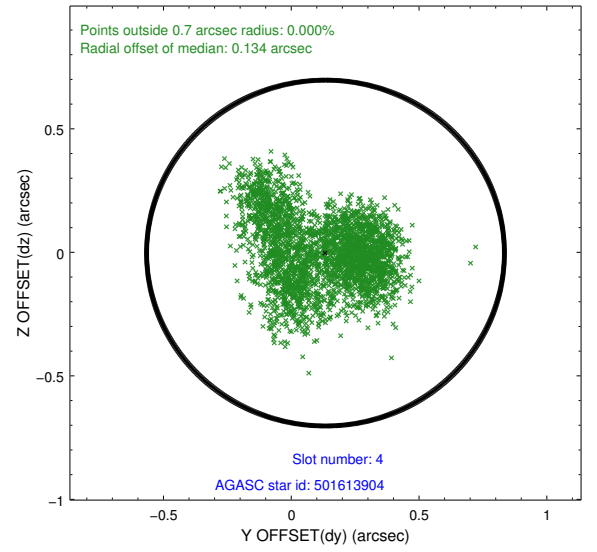
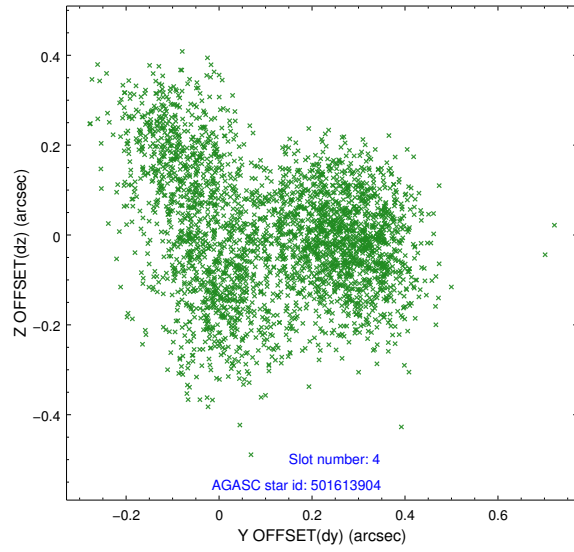
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	1473	0.051	-0.012	0.019	0.029	0.000000	0.000000	930.48	-836.35
1	FID	ACIS-I-5	7.23	1471	-0.208	0.058	0.014	0.022	0.000000	0.000000	-1817.32	1060.75
2	FID	ACIS-I-6	7.24	1473	0.064	0.022	0.012	0.018	0.000000	0.000000	395.00	1706.30
3	GUIDE	501613824	10.18	2940	0.075	0.264	0.190	0.291	168.164349	56.160287	-1923.19	-1391.15
4	GUIDE	501613904	9.98	2934	0.134	-0.003	0.238	0.370	168.615830	56.200576	-1075.35	-1738.39
5	GUIDE	501617400	8.94	2943	0.139	-0.054	0.100	0.166	167.619761	56.497458	-2209.04	212.07
6	GUIDE	501620848	9.33	2938	-0.078	-0.355	0.127	0.204	167.963691	57.281851	-145.55	2254.86
7	GUIDE	501745960	8.47	2944	-0.261	0.158	0.097	0.146	170.066430	56.606700	2156.59	-1945.93

2.4 Star Slots

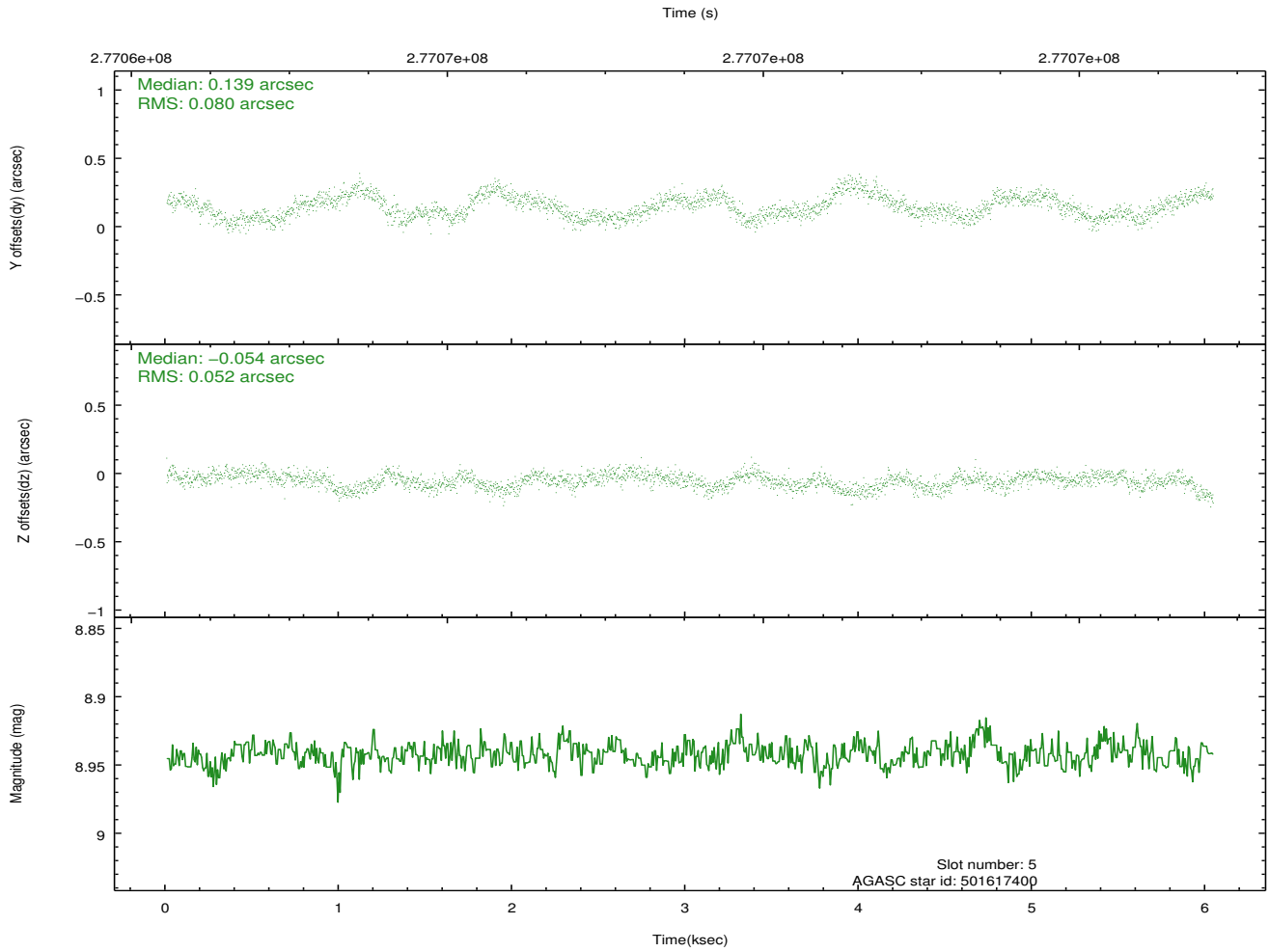
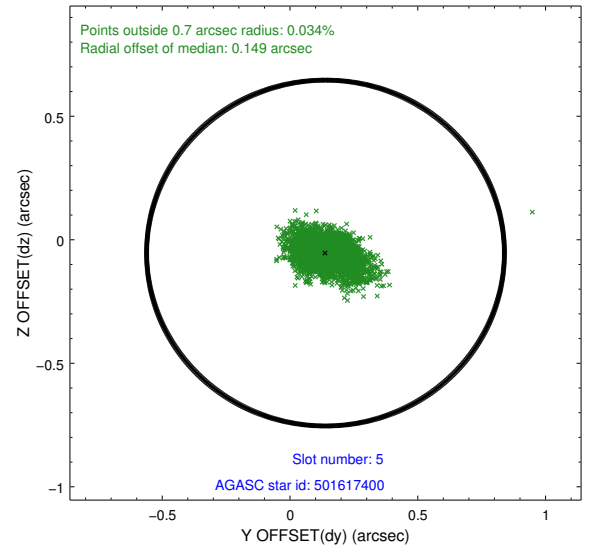
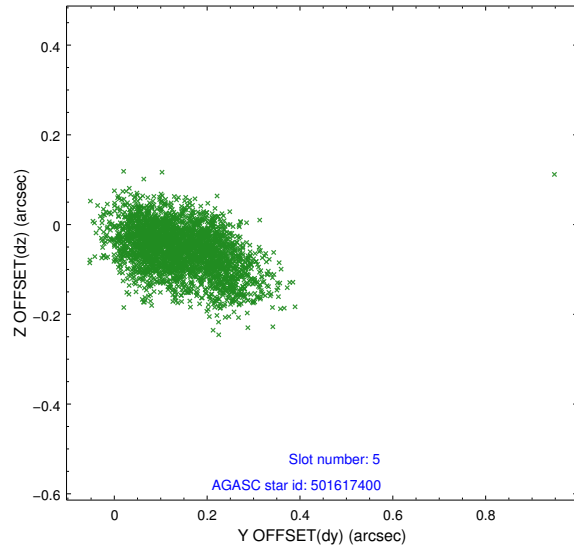
2.4.1 Slot 3



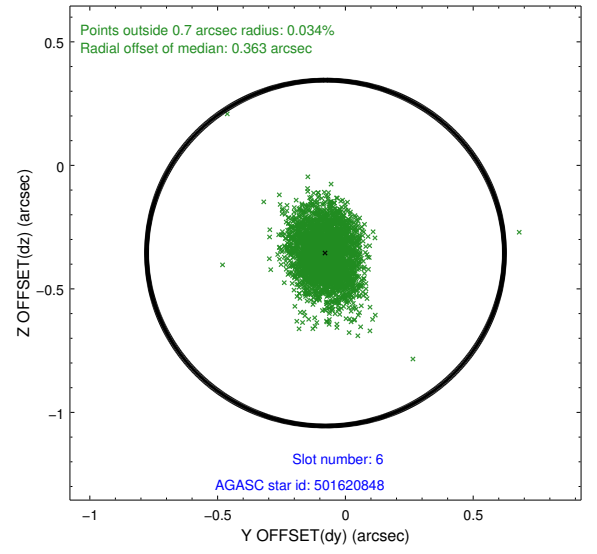
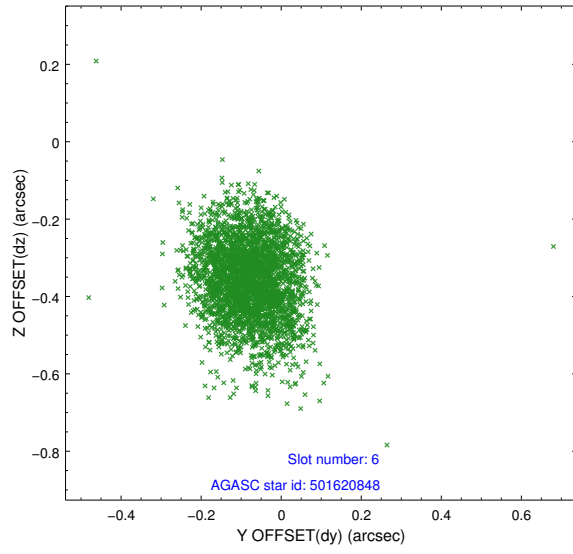
2.4.2 Slot 4



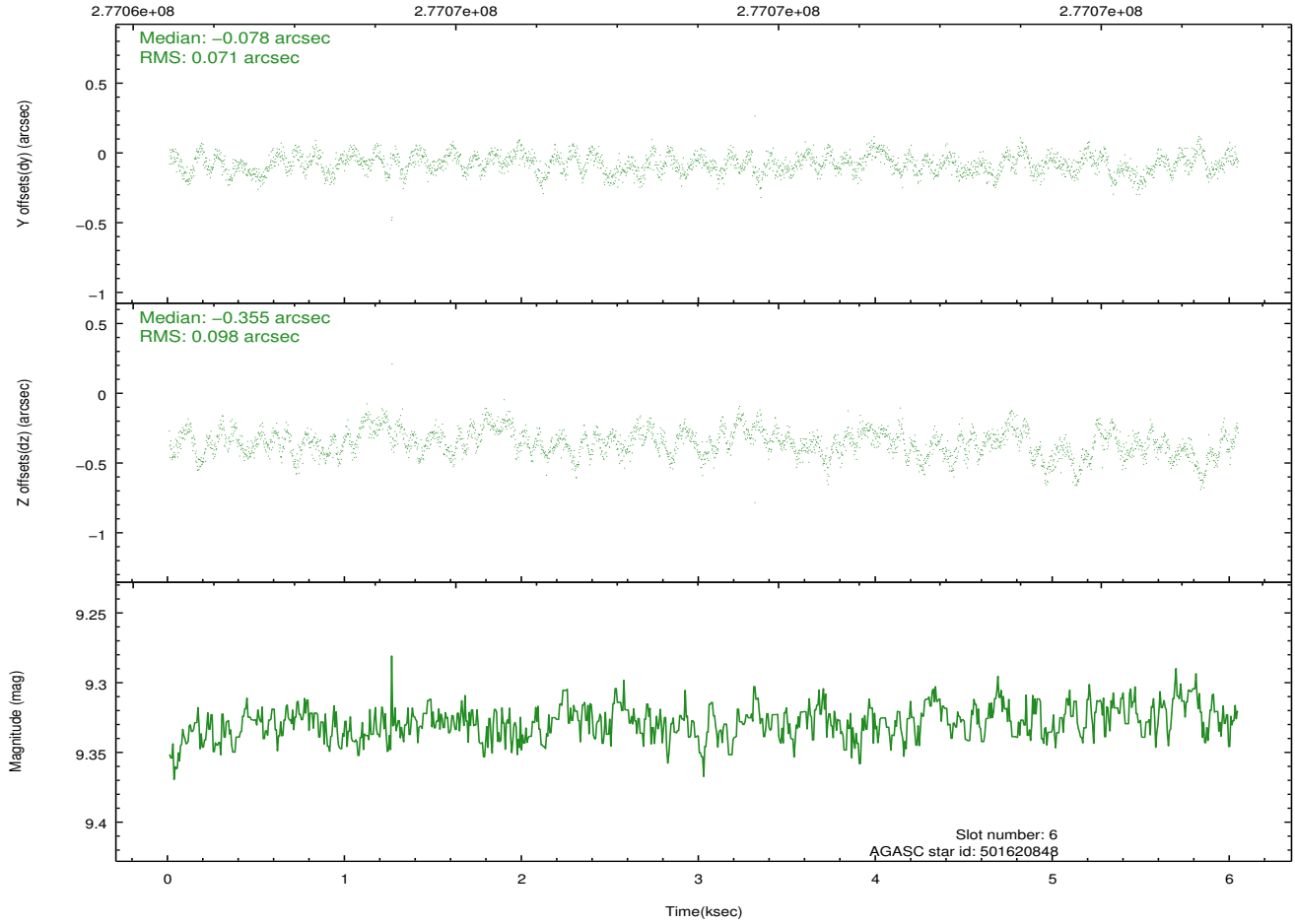
2.4.3 Slot 5



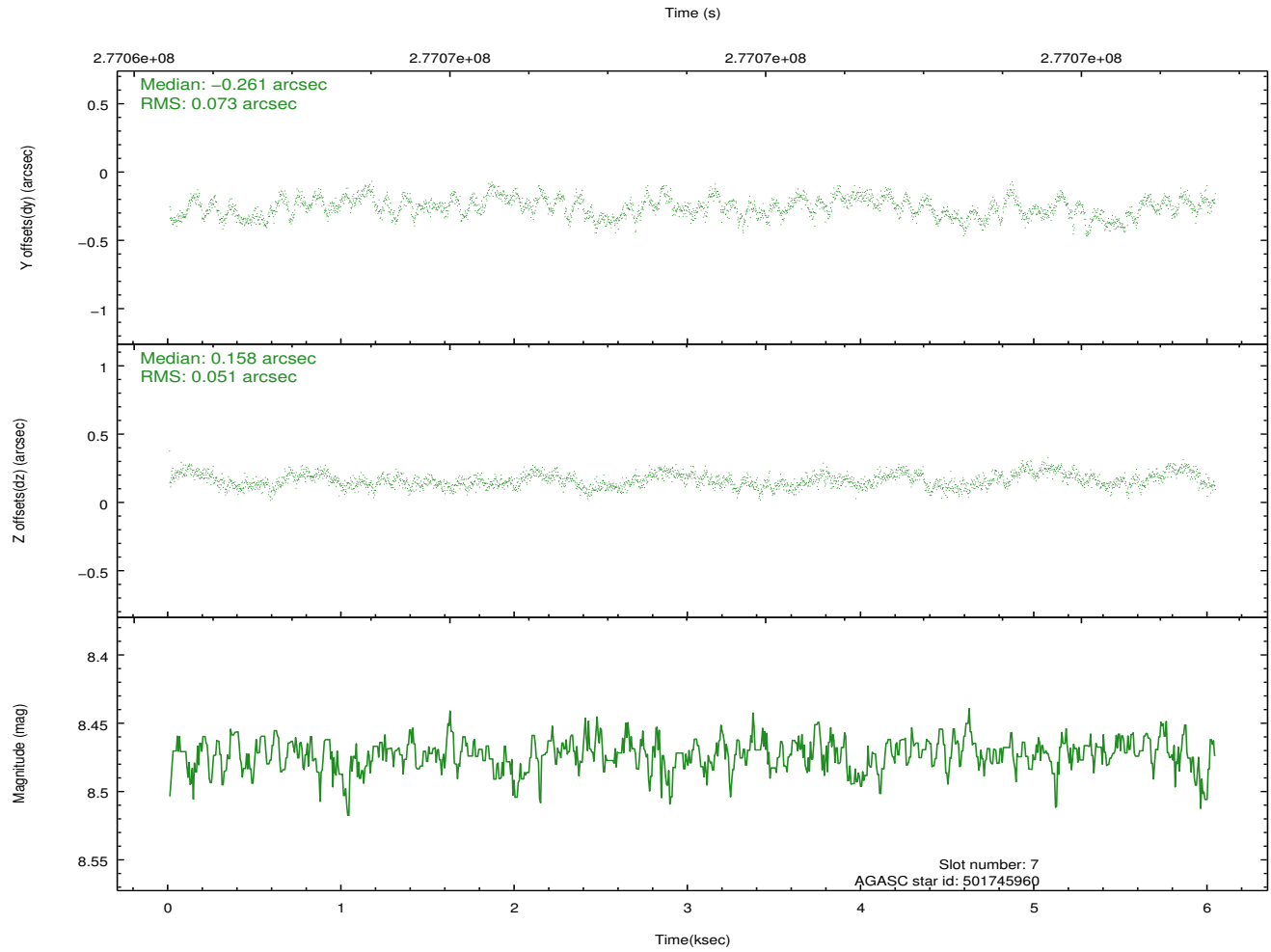
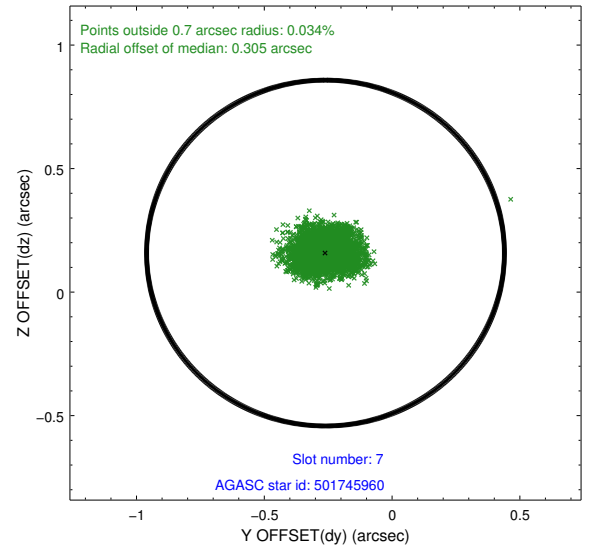
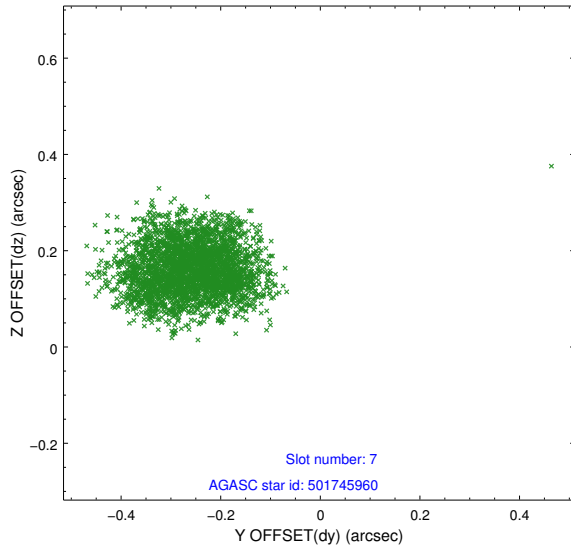
2.4.4 Slot 6



Time (s)

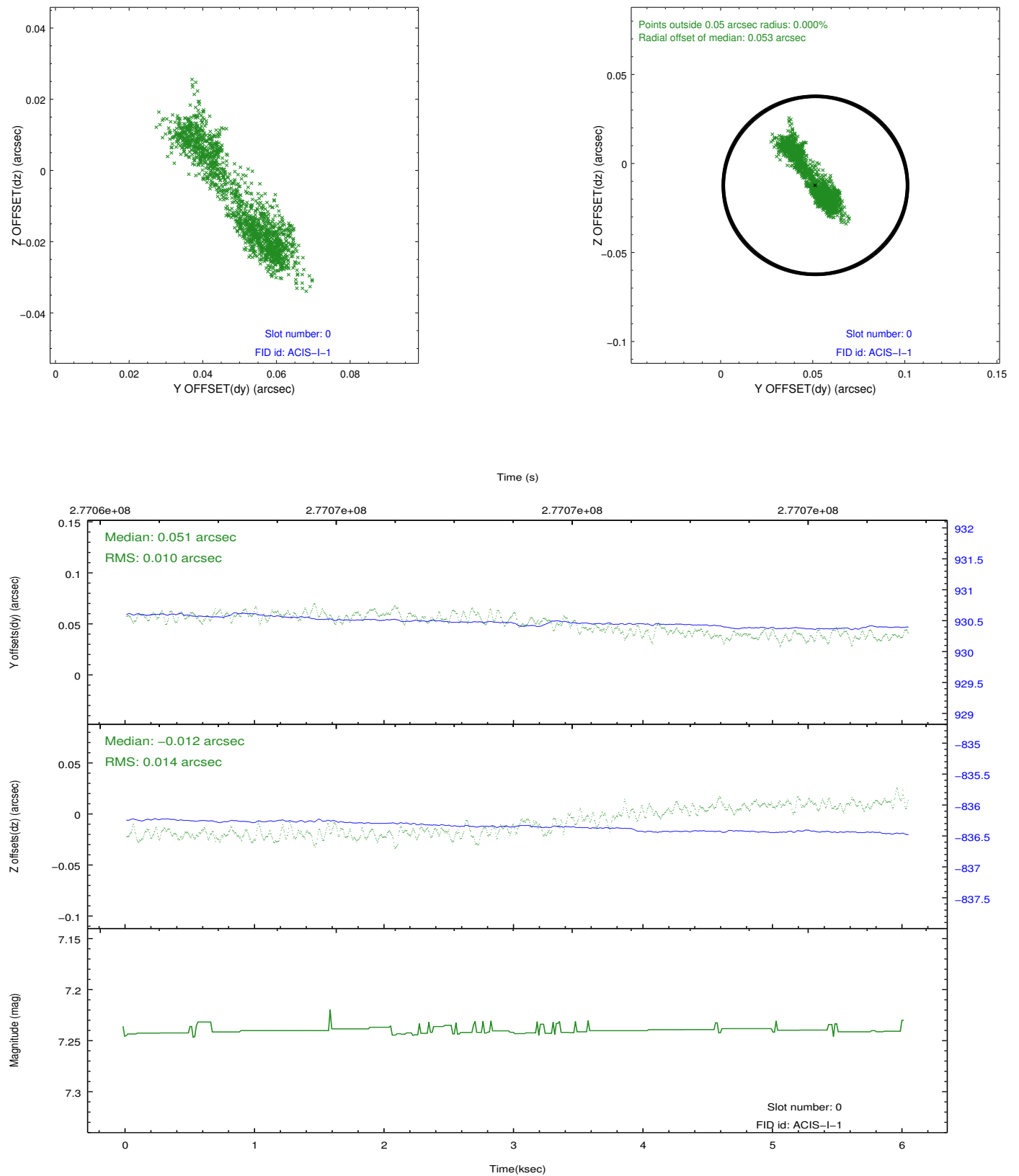


2.4.5 Slot 7

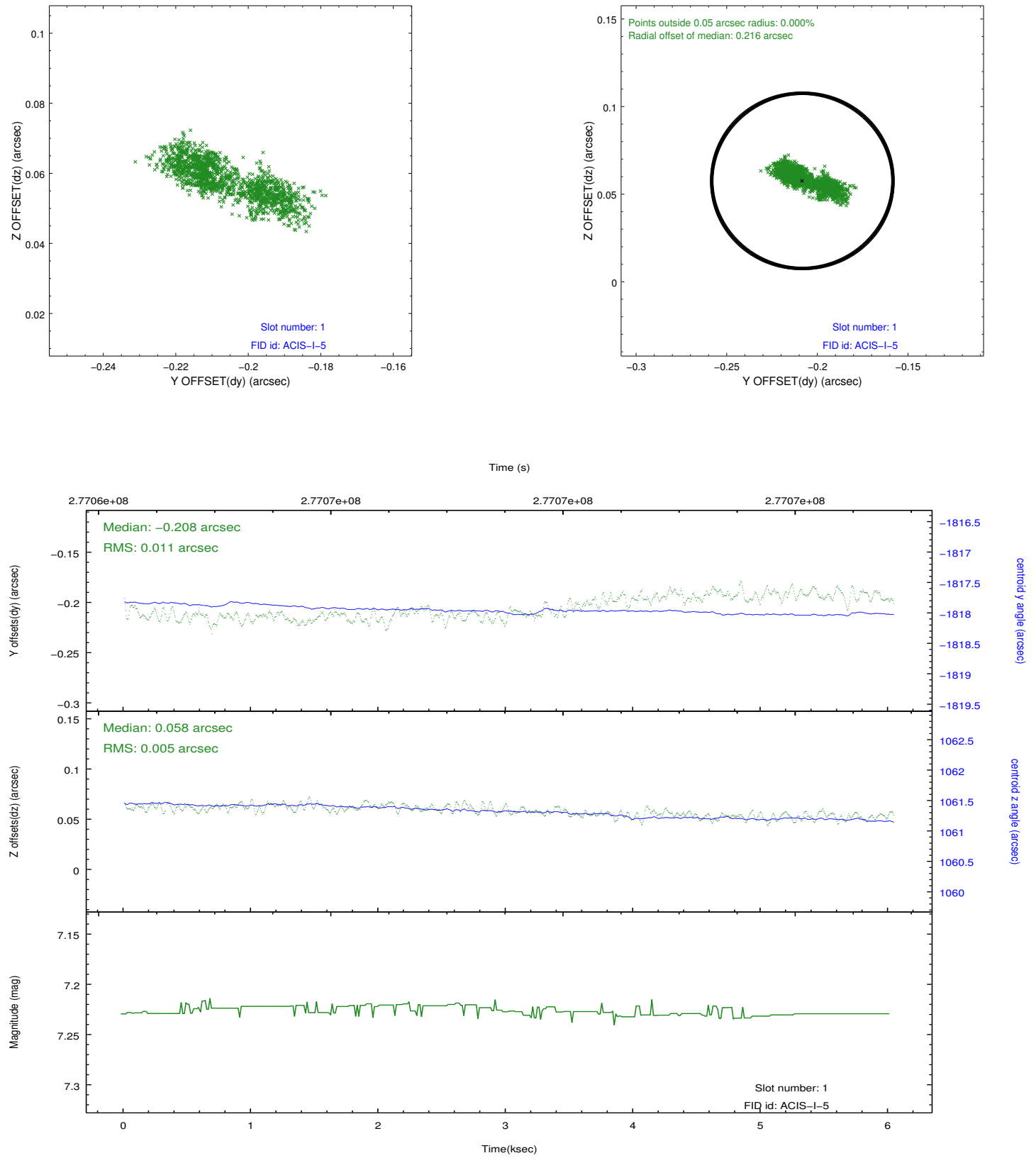


2.5 FID Slots

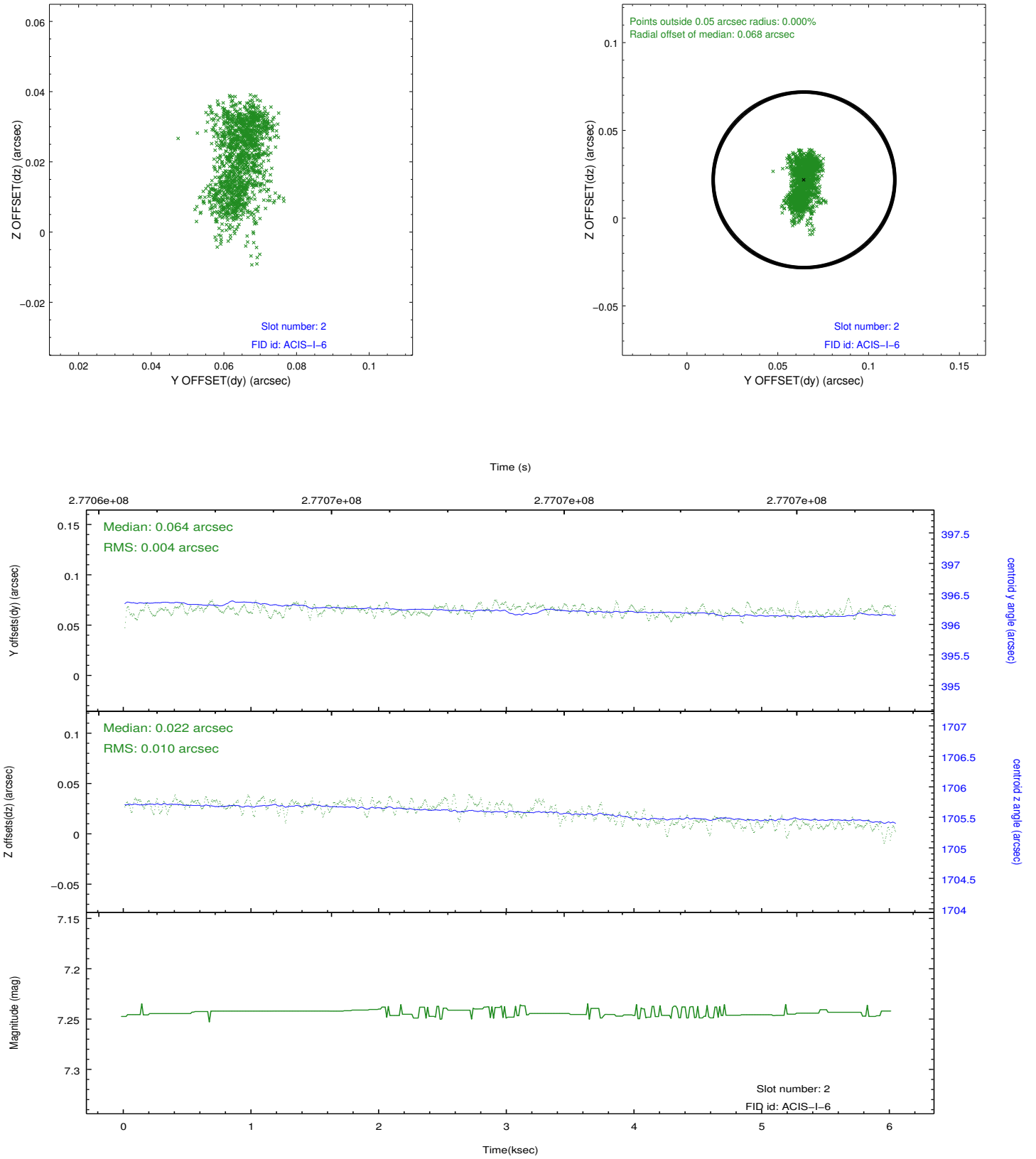
2.5.1 Slot 0



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)	2012.04.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.04365916

A.2 Comments