

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 6962 - L2 Version 2
Chandra X-Ray Center

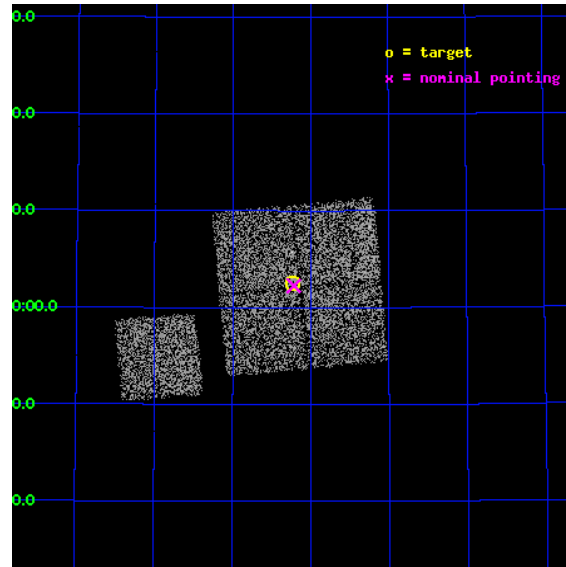
L2 Processing Date : Apr 3 2012

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

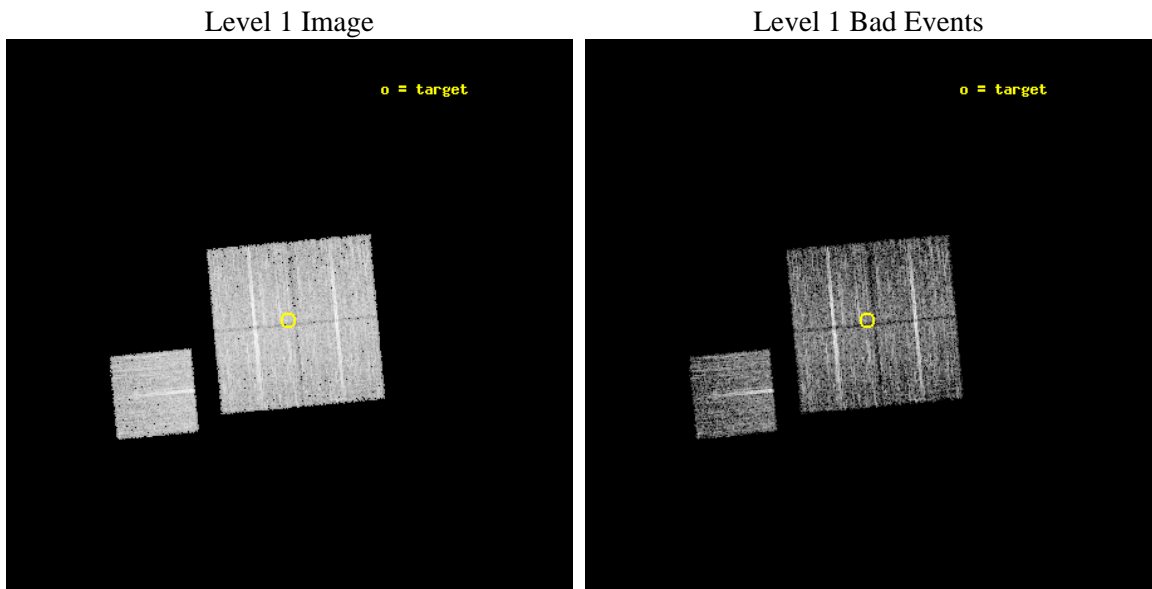
seq_num	800595	Sequence number
obs_id	6962	Observation id
title	A Search for the Origin of Ultrahigh Energy Cosmic Rays	Proposal t
observer	Prof. David Helfand	Principal investigator
object	P6	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	169.558	Observer's specified target RA [deg]
dec_targ	57.0417	Observer's specified target Dec [deg]
ra_nom	169.55385645206	Nominal RA [deg]
dec_nom	57.037670053475	Nominal Dec [deg]
roll_nom	264.68508434601	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4770.899990797	Sum of GTIs [s]
liveltime	4708.5646701318	Livetime [s]
ontime0	4770.899990797	Sum of GTIs [s]
ontime1	4770.899990797	Sum of GTIs [s]
ontime2	4770.899990797	Sum of GTIs [s]
ontime3	4770.899990797	Sum of GTIs [s]
ontime6	4770.899990797	Sum of GTIs [s]
l2events	14903	Number of level 2 events



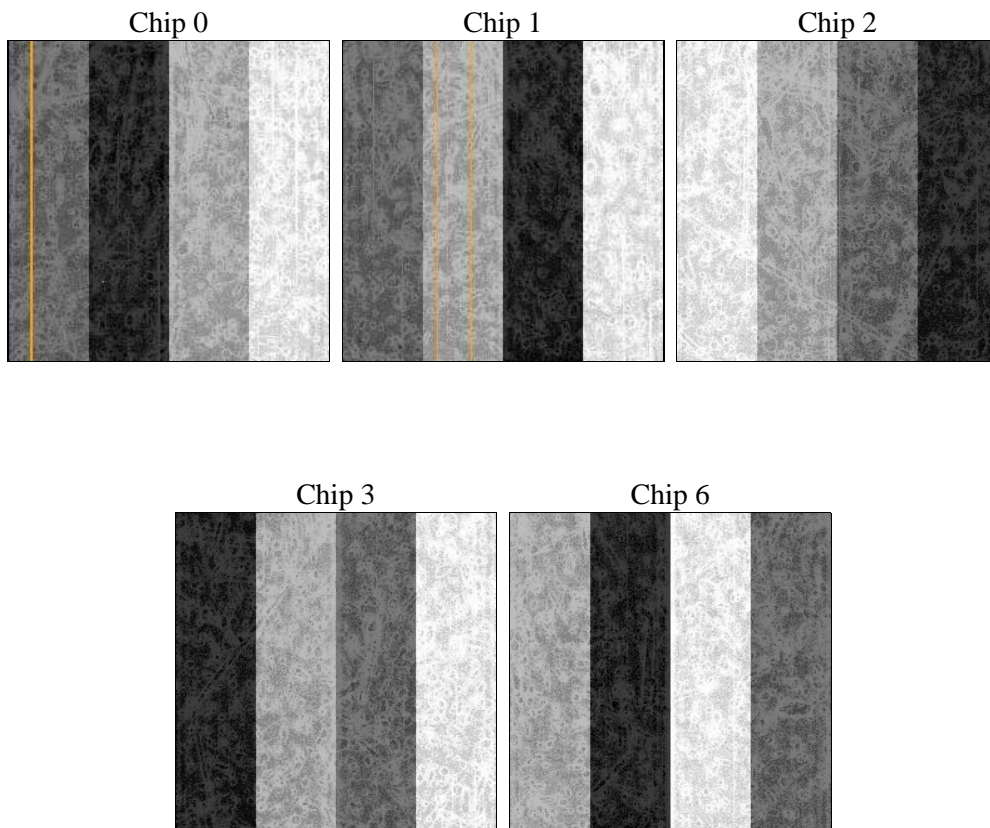
2 OBI

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	Processing system revision	ontime	4770.899990797	Sum of GTIs [s]
caldsver	4.4.9	 	ontime0	4770.899990797	Sum of GTIs [s]
date	2012-04-03T12:15:31	Date and time of file creation	ontime1	4770.899990797	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	4770.899990797	Sum of GTIs [s]
			ontime3	4770.899990797	Sum of GTIs [s]
			ontime6	4770.899990797	Sum of GTIs [s]
			l1events	179647	Number of level 1 events

2.1.4 Events

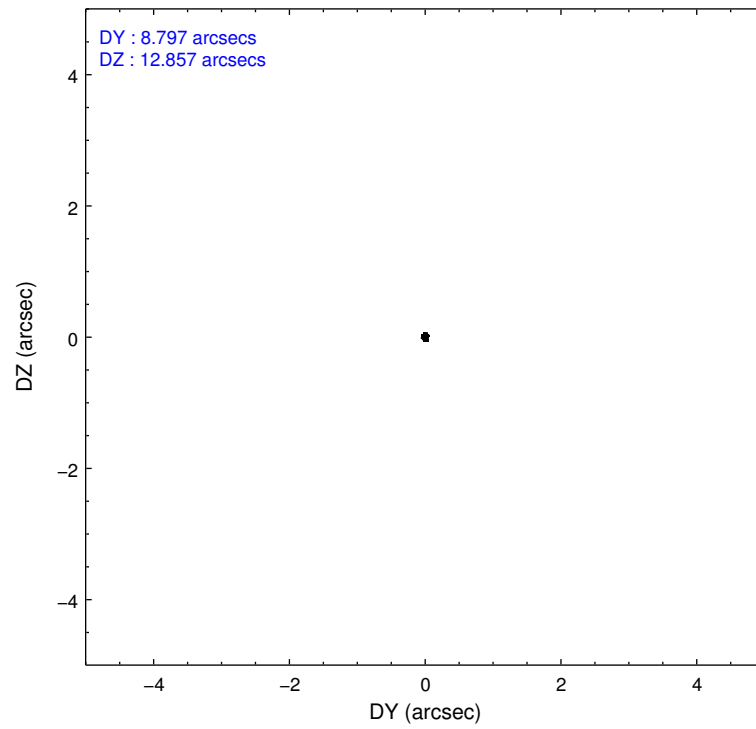
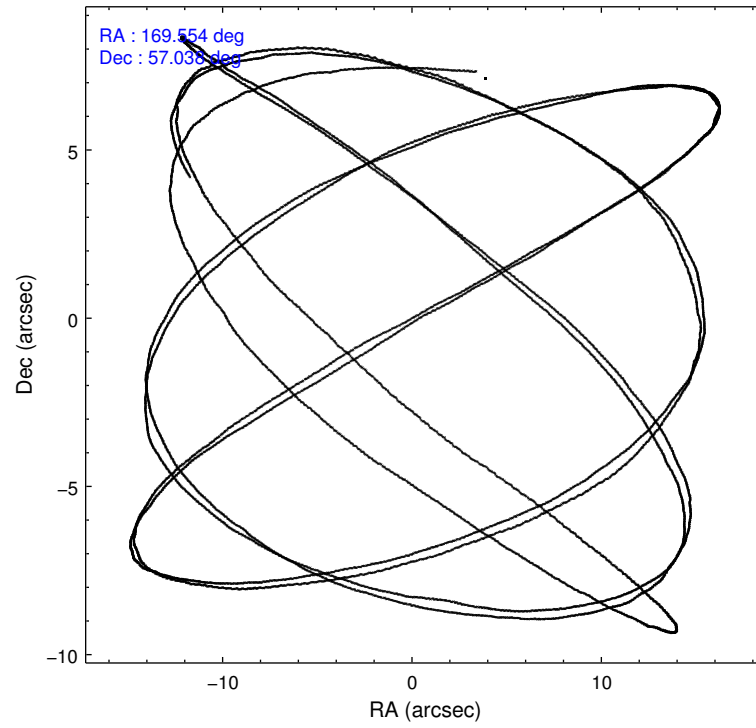
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	34422	34352	39192	36672	35009
rejected events	31007	30331	35668	33365	31331
rejected %	90%	88%	91%	90%	89%

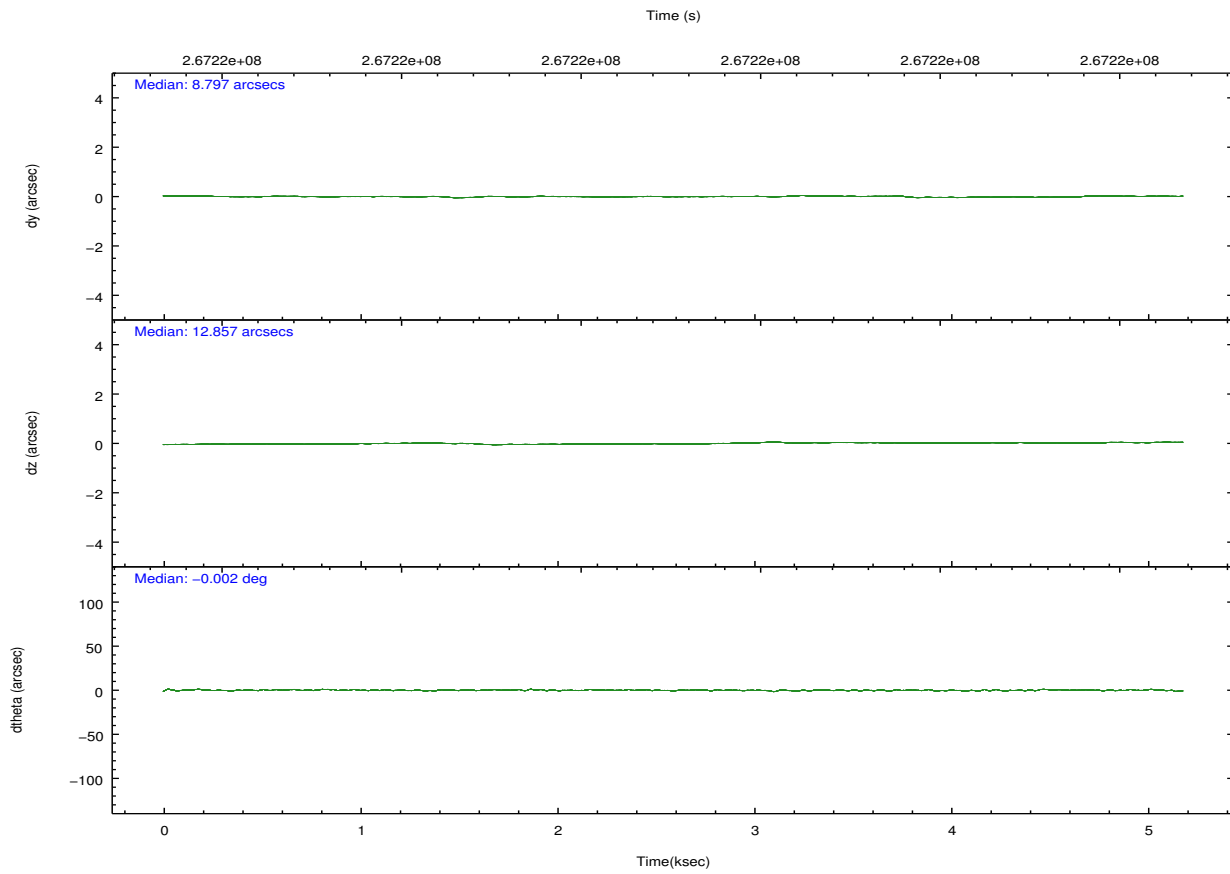
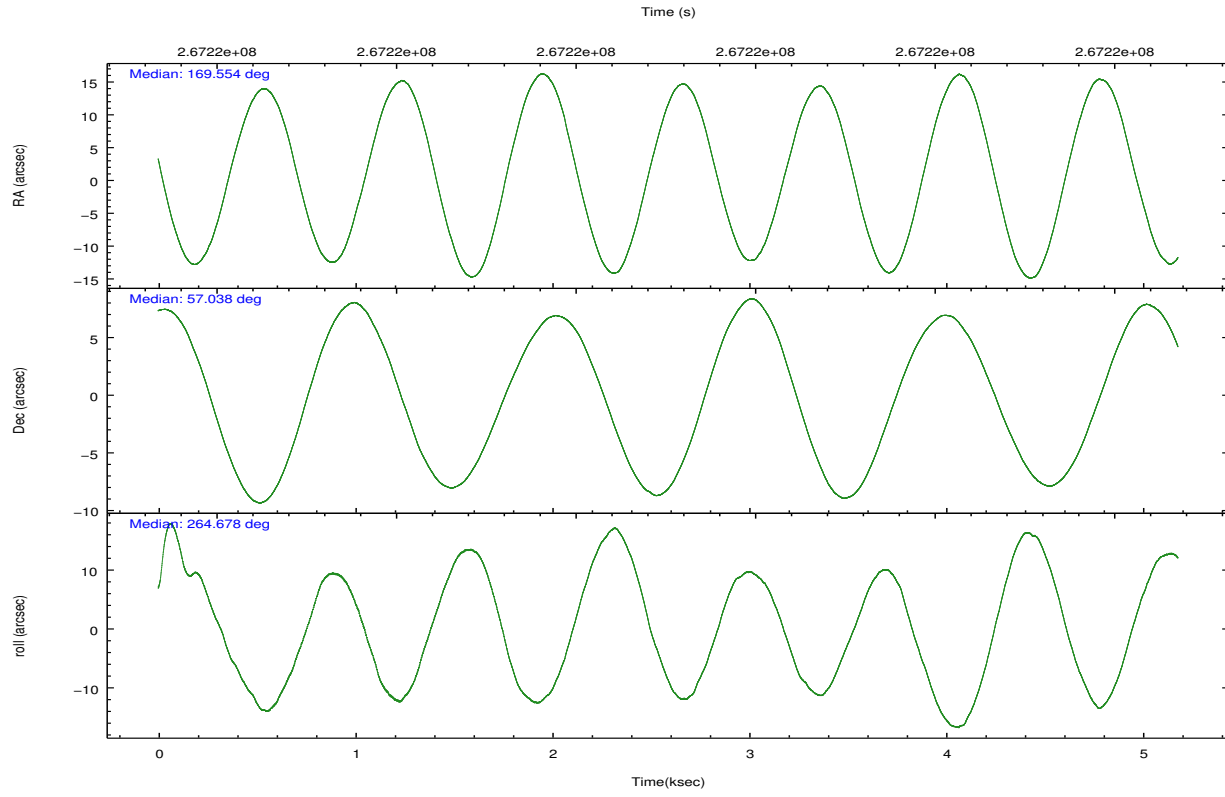
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	1166	1458	1285	1149	1274
	3%	4%	3%	3%	3%
grade 1 events	18	16	18	18	22
	0%	0%	0%	0%	0%
grade 2 events	815	918	789	715	791
	2%	2%	2%	1%	2%
grade 3 events	400	479	390	393	401
	1%	1%	0%	1%	1%
grade 4 events	387	404	382	386	418
	1%	1%	0%	1%	1%
grade 5 events	1238	1254	1136	1487	1475
	3%	3%	2%	4%	4%
grade 6 events	651	766	679	667	800
	1%	2%	1%	1%	2%
grade 7 events	29747	29057	34513	31857	29828
	86%	84%	88%	86%	85%

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	169.532748	169.5538564520554	Subarray requested	NONE	NONE
[deg] Pointing Dec	57.062457	57.03767005347532	Alternating exposures requested	N	N
[deg] Pointing Roll	264.494117	264.6850843460082	[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)	267219102.184000	267218726.32784			
Observation start date	2006-06-20T19:30:37	2006-06-20T19:25:26			
[s] Observation end time (MET)	267224102.184000	267224236.7281			
Observation end date	2006-06-20T20:53:57	2006-06-20T20:57:16			
Read mode	TIMED	TIMED			

2.3 Aspect



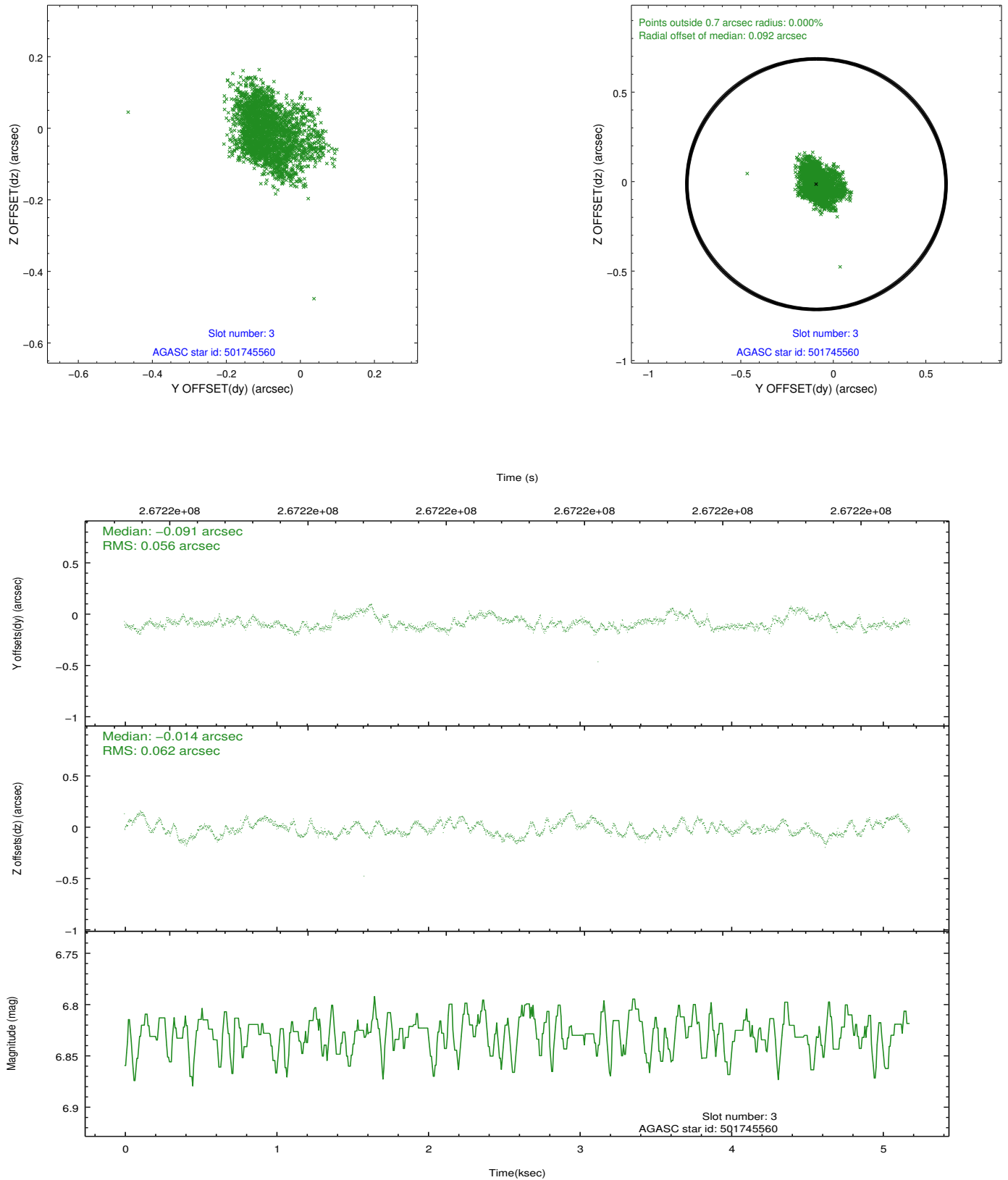


Slot Statistics

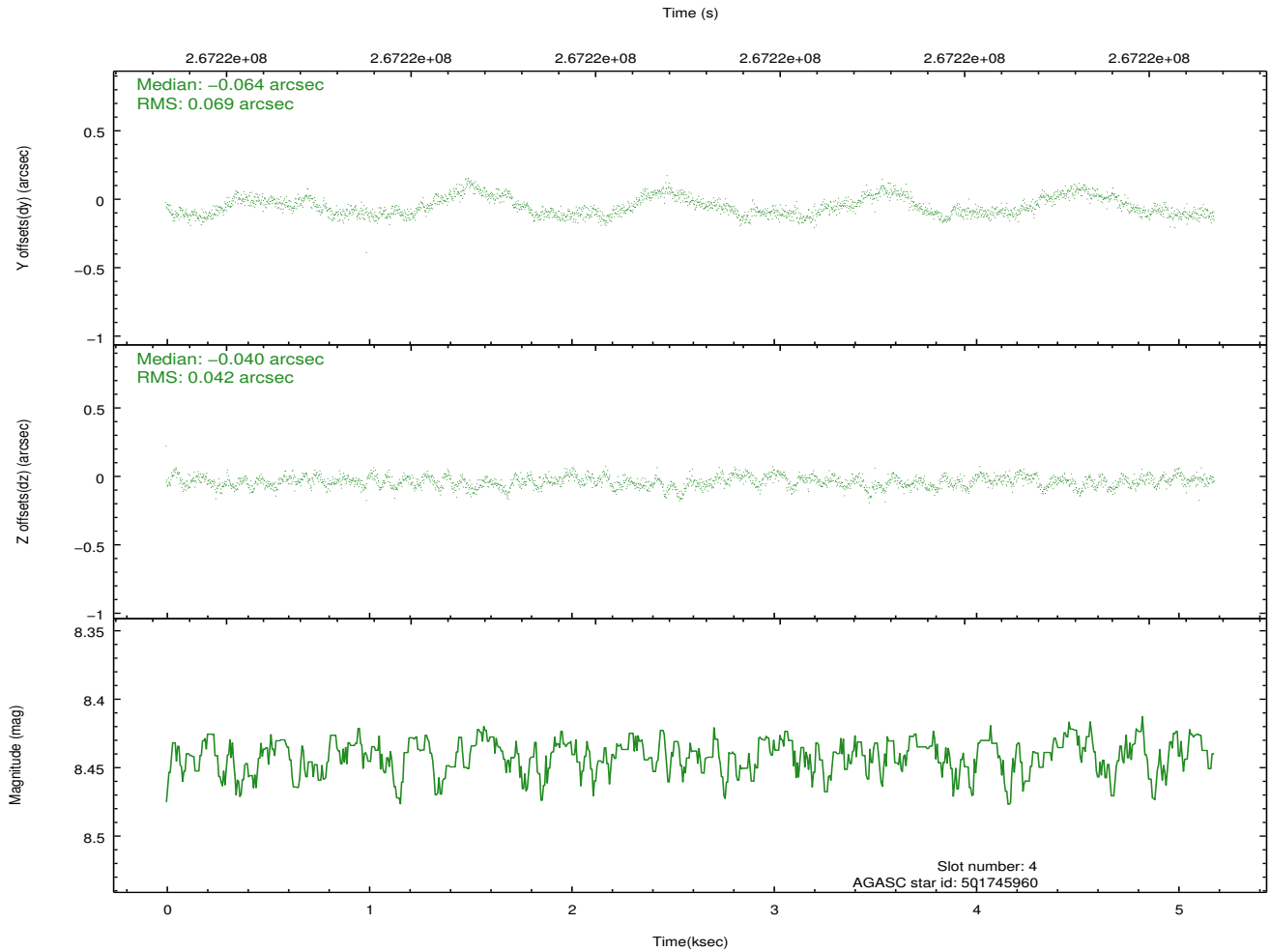
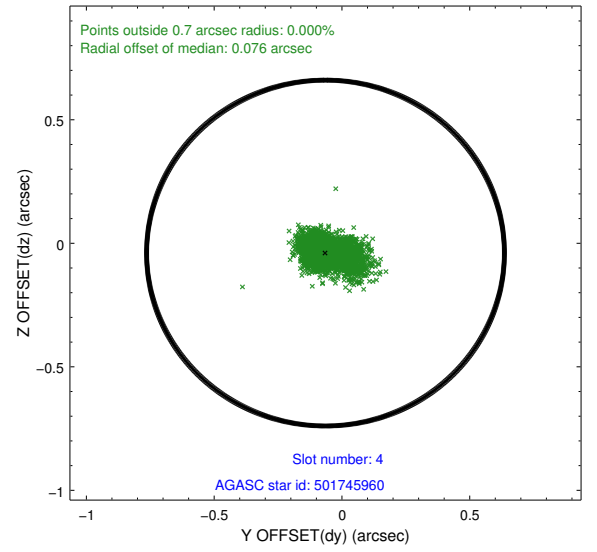
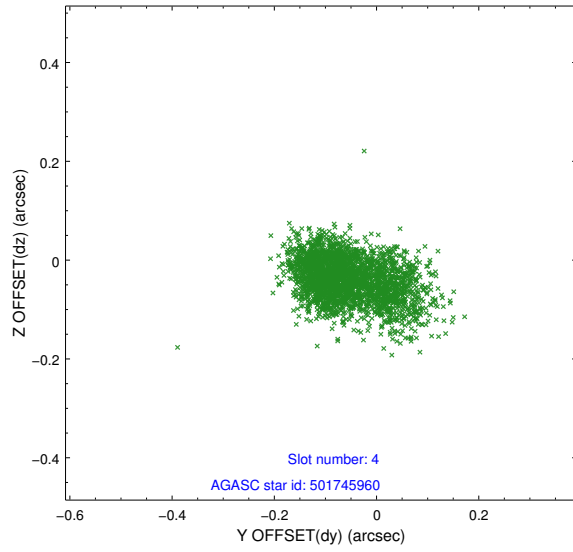
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	1263	0.043	-0.005	0.006	0.011	0.000000	0.000000	930.87	-836.41
1	FID	ACIS-I-5	7.23	1264	-0.198	0.054	0.006	0.011	0.000000	0.000000	-1816.81	1060.57
2	FID	ACIS-I-6	7.24	1263	0.063	0.022	0.007	0.011	0.000000	0.000000	395.18	1706.35
3	GUIDE	501745560	6.83	2528	-0.091	-0.014	0.088	0.143	170.455367	57.074858	-229.55	1791.39
4	GUIDE	501745960	8.44	2527	-0.064	-0.040	0.084	0.144	170.066430	56.606700	1527.87	1210.77
5	GUIDE	501747056	10.25	2512	0.182	-0.005	0.236	0.378	169.256851	56.508688	2037.23	-353.35
6	GUIDE	501747432	9.94	2524	0.040	0.102	0.122	0.196	169.486750	57.497356	-1548.48	-238.71
7	GUIDE	502137856	10.11	2523	-0.082	-0.031	0.172	0.274	169.016576	57.682544	-2130.11	-1203.25

2.4 Star Slots

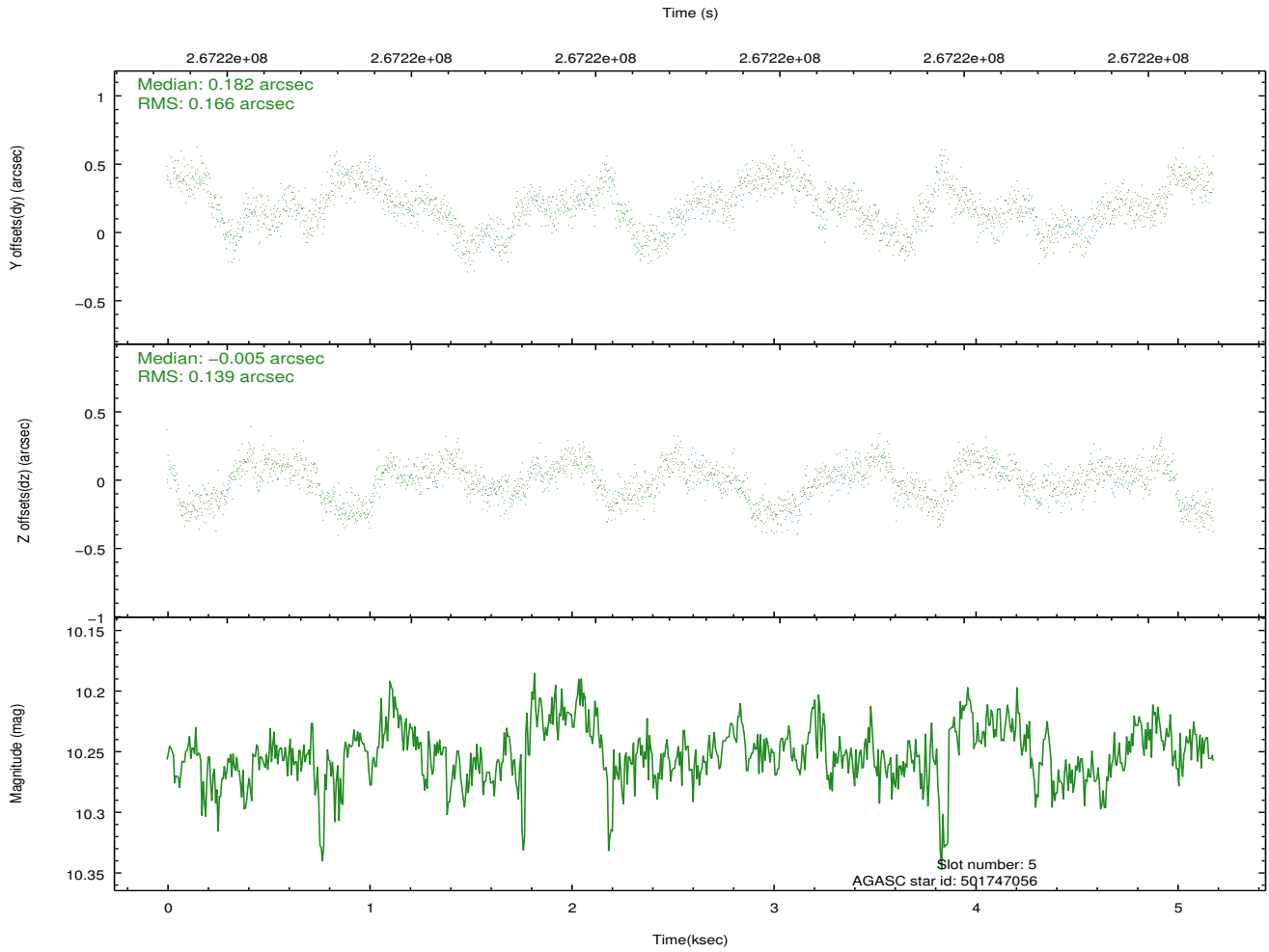
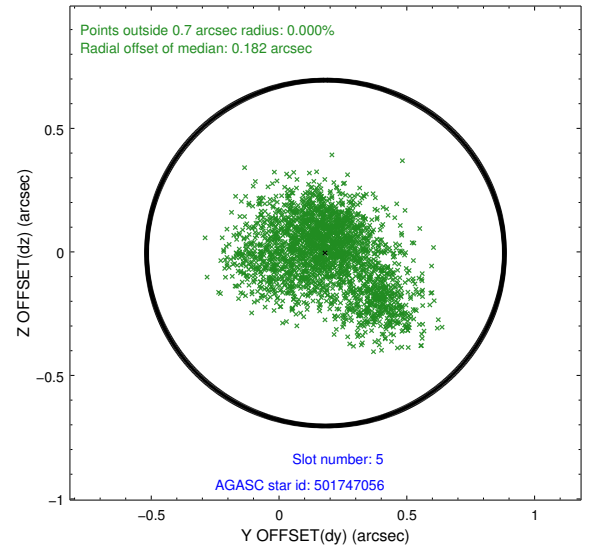
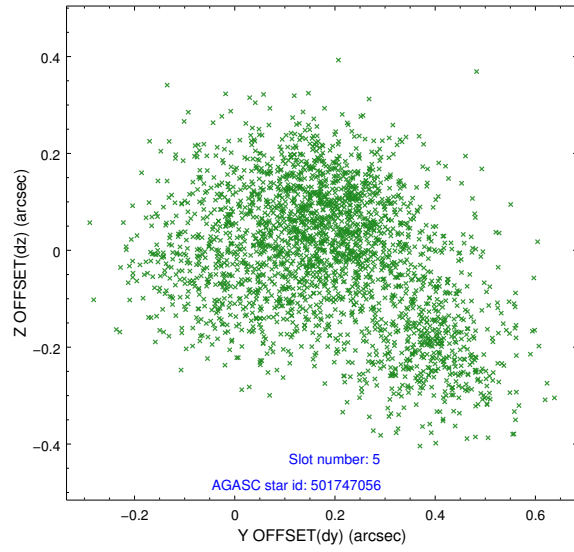
2.4.1 Slot 3



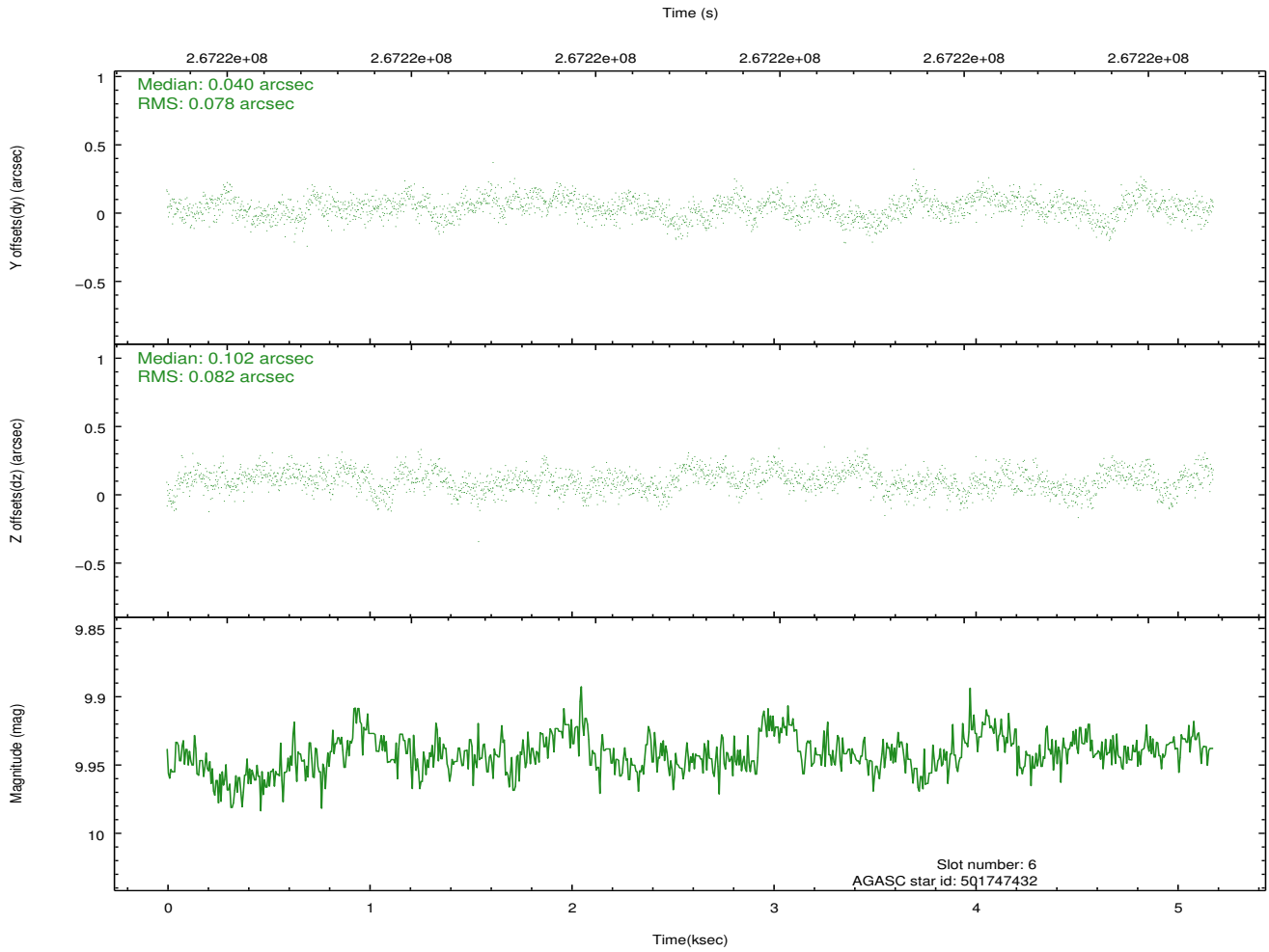
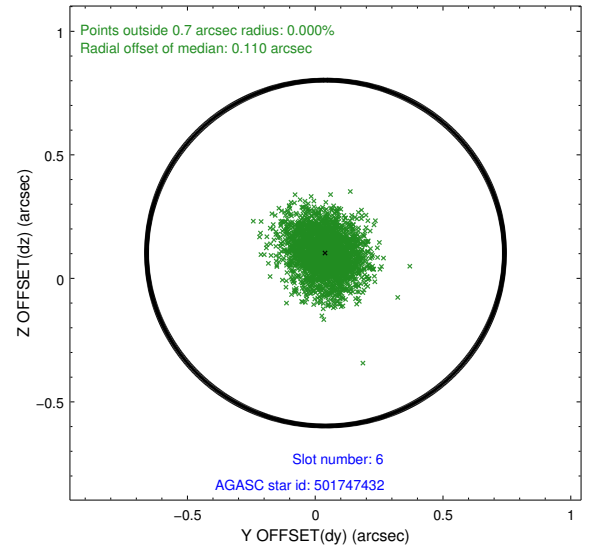
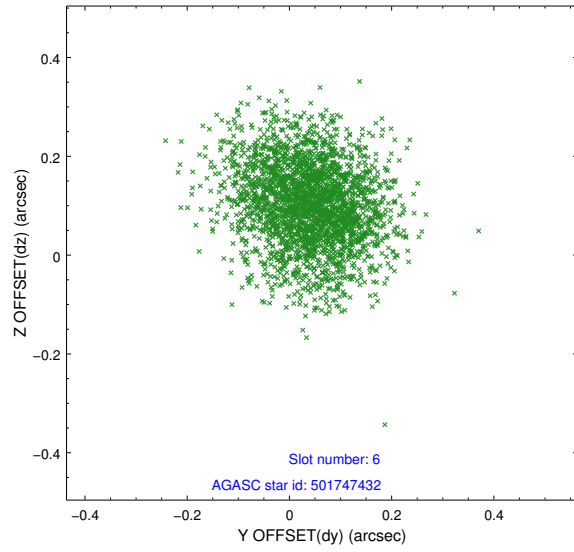
2.4.2 Slot 4



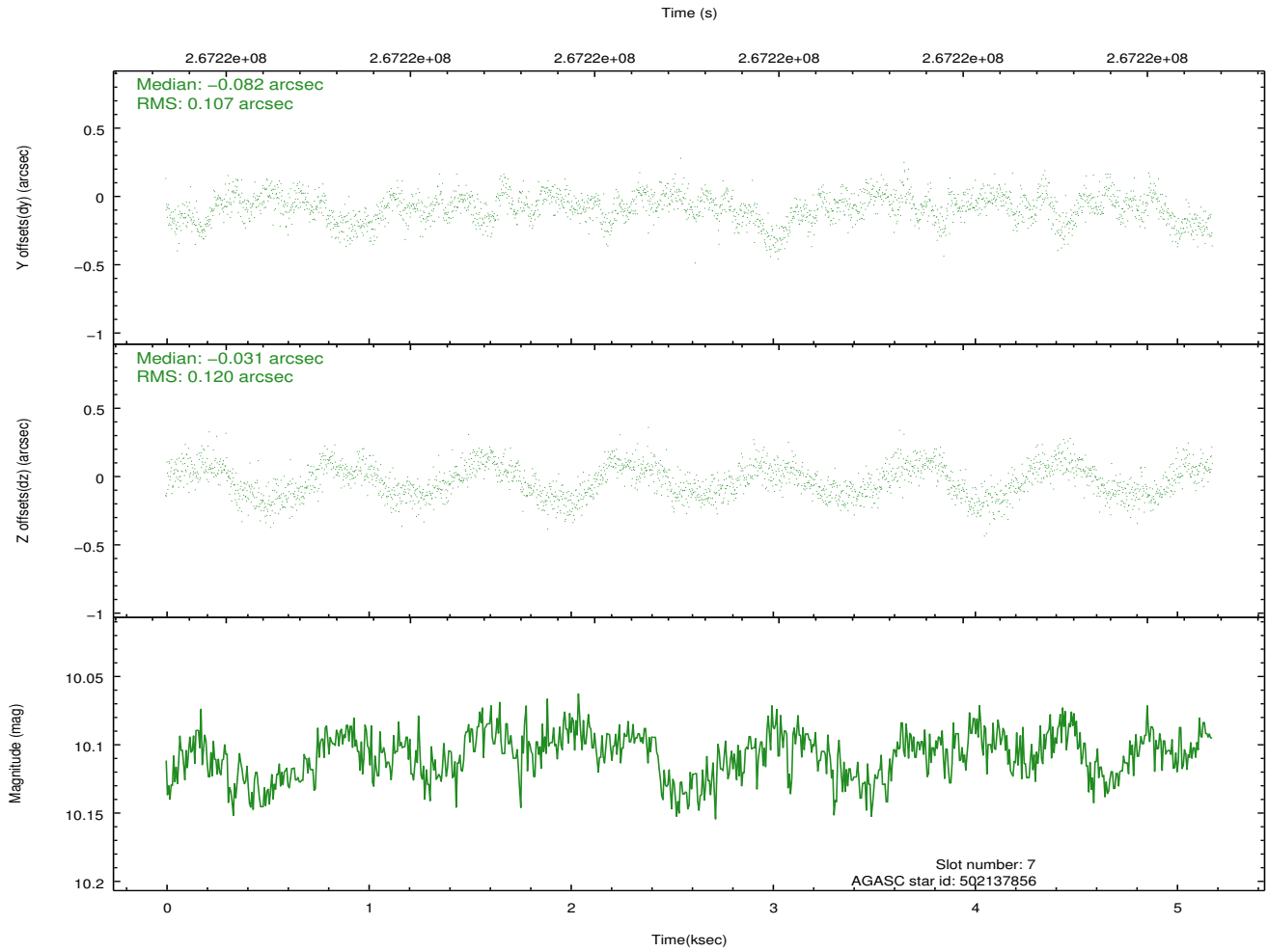
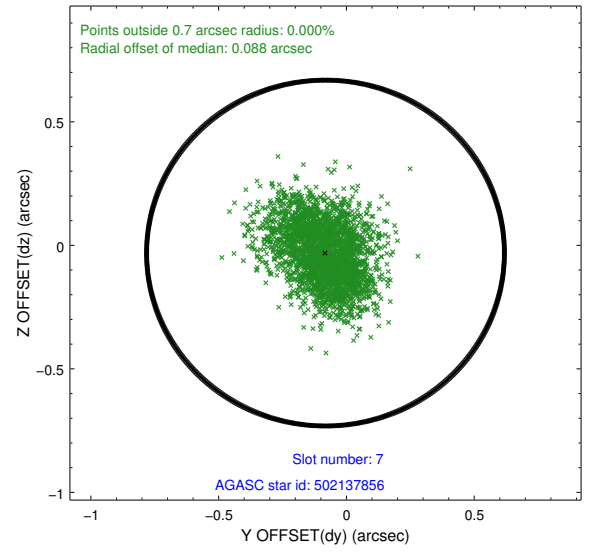
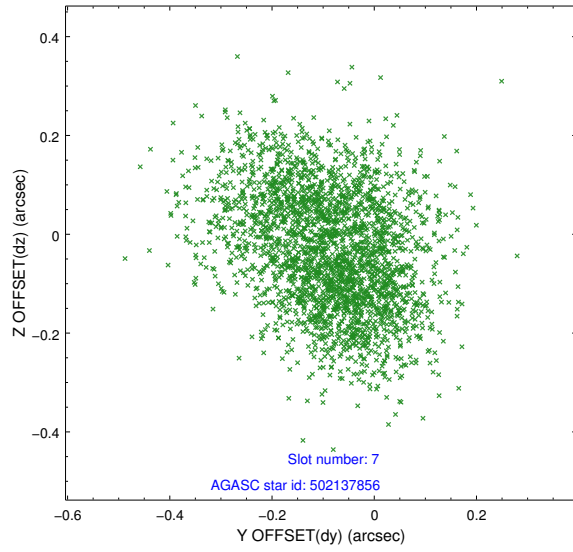
2.4.3 Slot 5



2.4.4 Slot 6

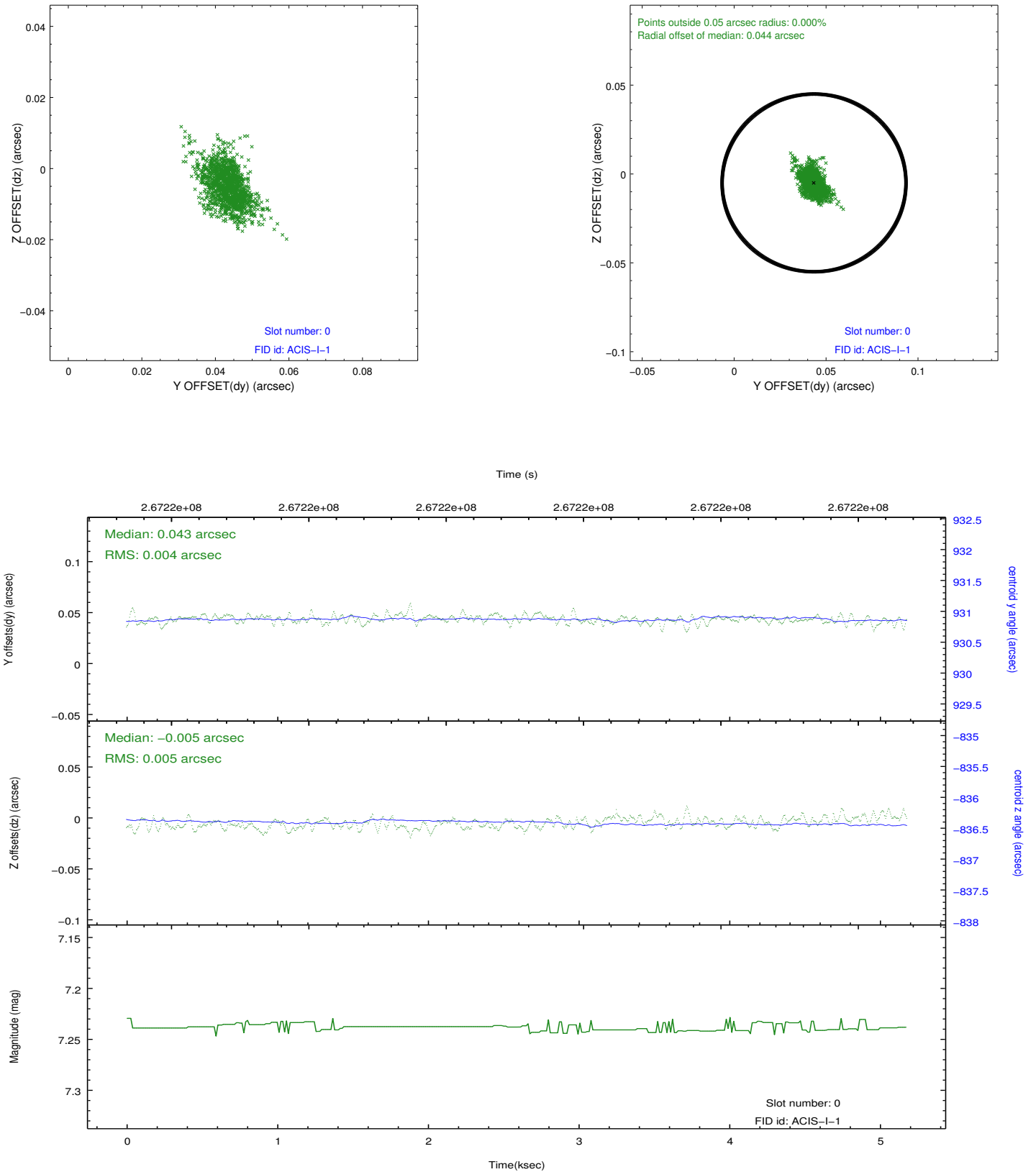


2.4.5 Slot 7

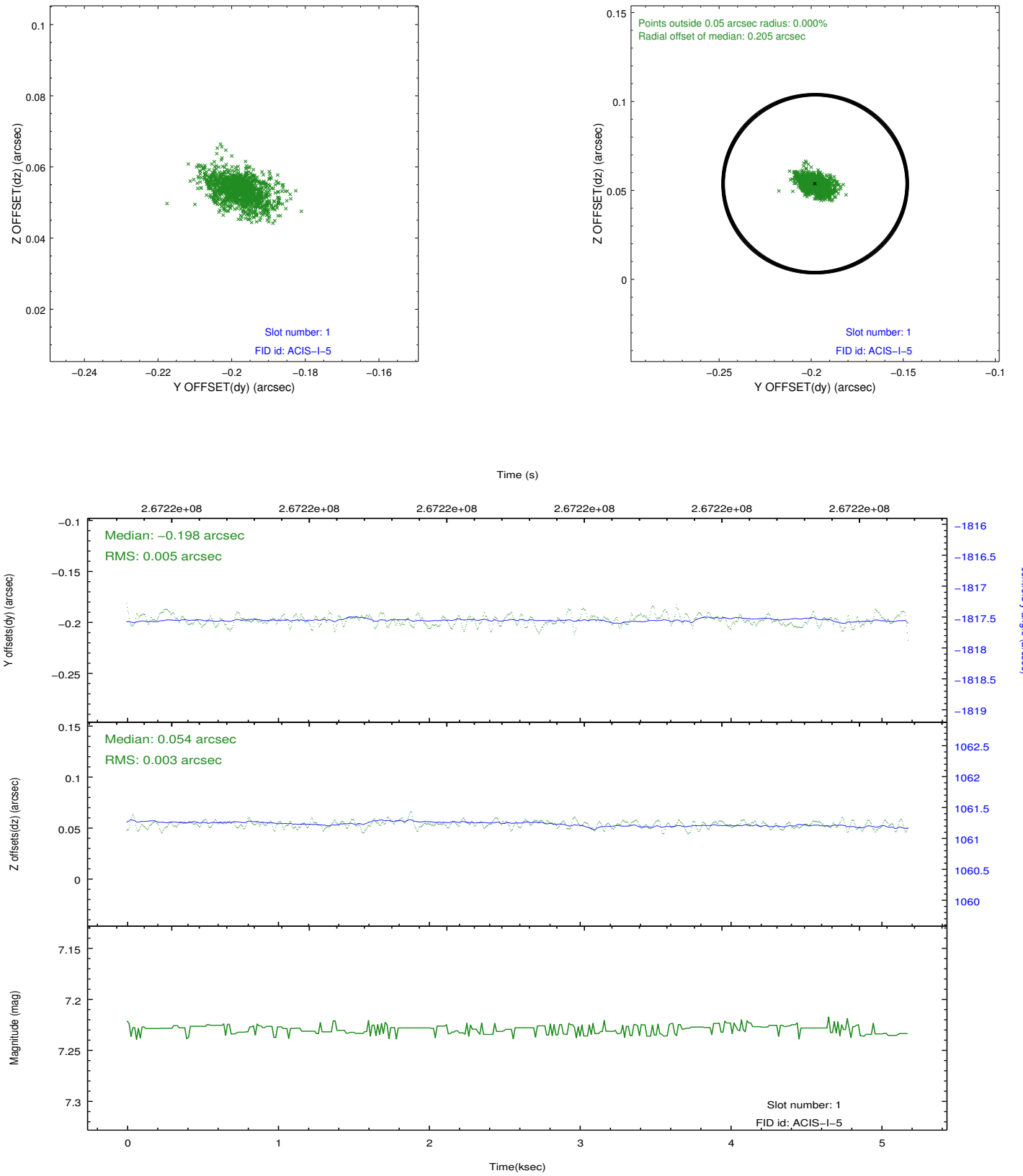


2.5 FID Slots

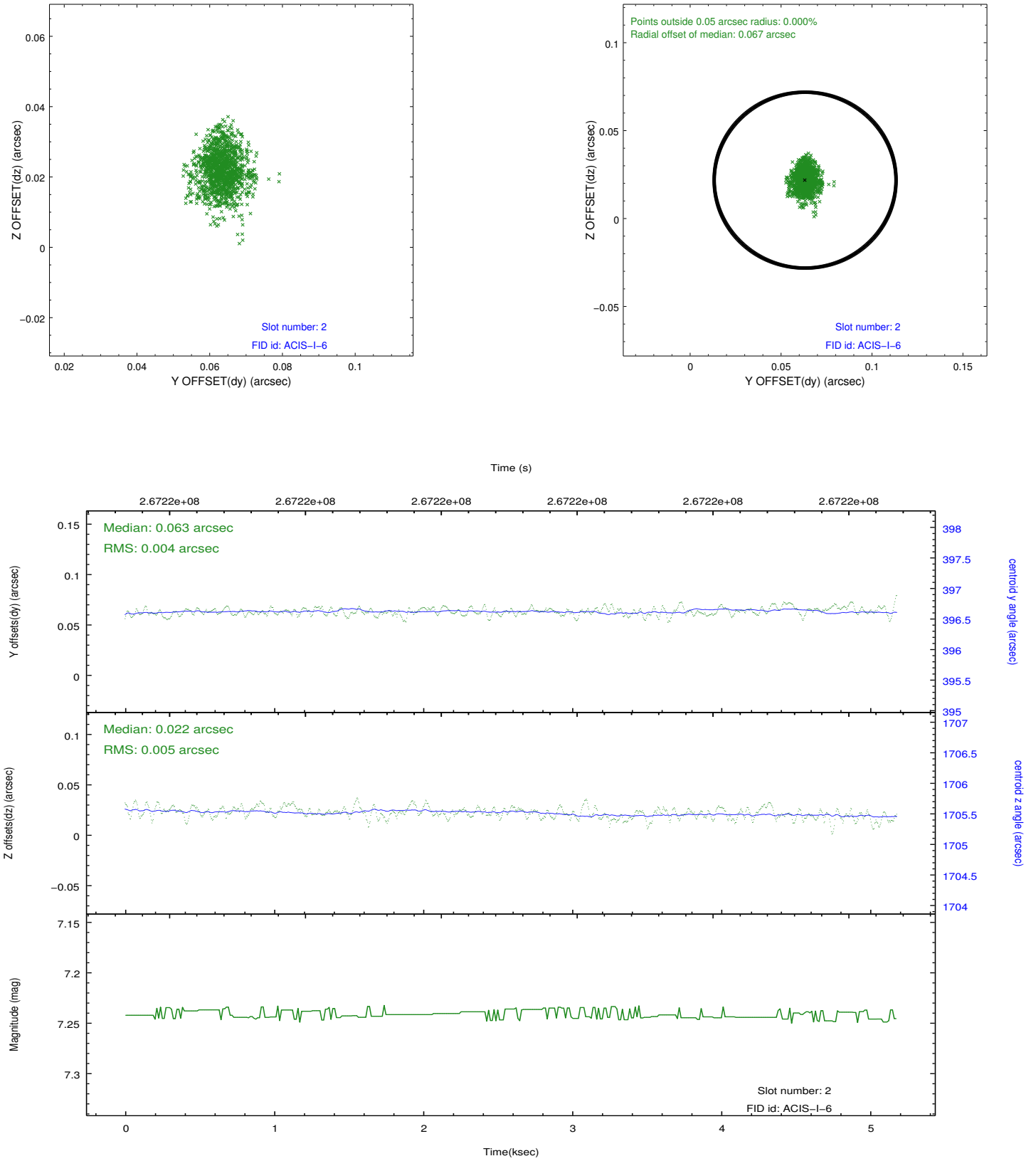
2.5.1 Slot 0



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)	2012.04.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.77089999

A.2 Comments