

V&V Reference Report

L2 ASCDS Version : 8.4.3.1

Observation 6963 - L2 Version 2
Chandra X-Ray Center

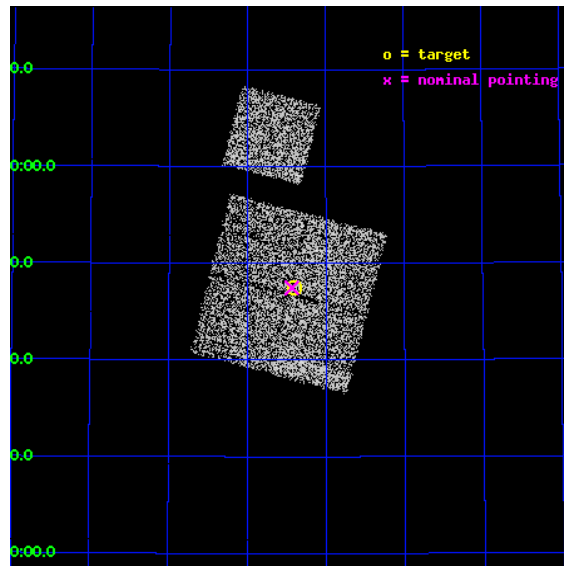
L2 Processing Date : Apr 10 2012

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

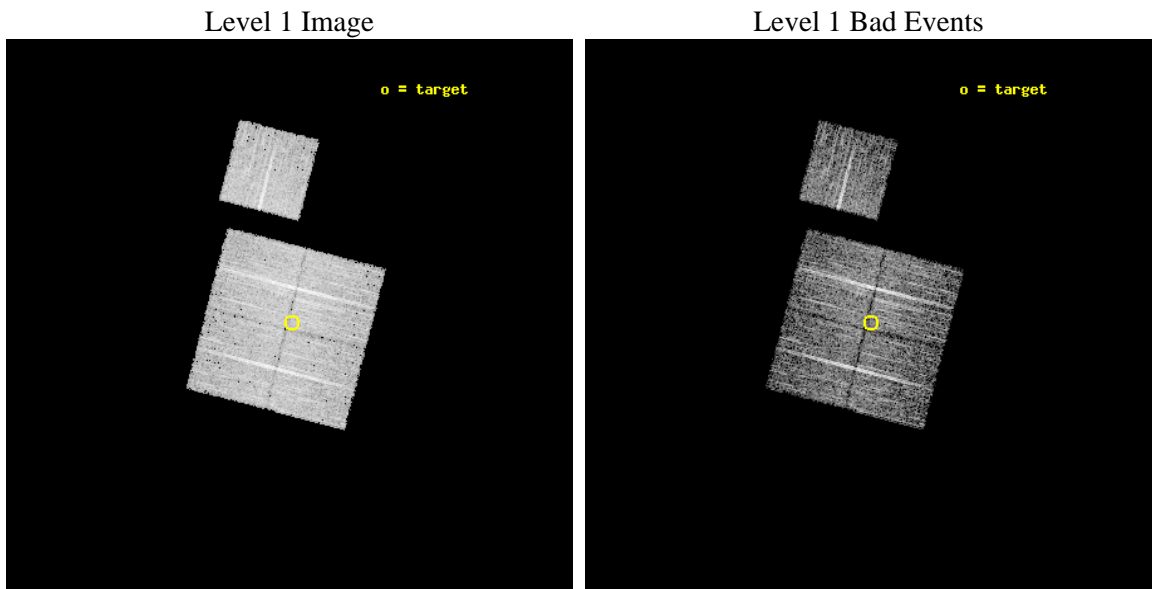
seq_num	800596	Sequence number
obs_id	6963	Observation id
title	A Search for the Origin of Ultrahigh Energy Cosmic Rays	Proposal t
observer	Prof. David Helfand	Principal investigator
object	P7	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	169.1	Observer's specified target RA [deg]
dec_targ	56.7917	Observer's specified target Dec [deg]
ra_nom	169.10833836179	Nominal RA [deg]
dec_nom	56.791082722572	Nominal Dec [deg]
roll_nom	14.527089742081	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5099.4590688348	Sum of GTIs [s]
liveltime	5032.8308819333	Livetime [s]
ontime0	5102.6000392437	Sum of GTIs [s]
ontime1	5102.6000392437	Sum of GTIs [s]
ontime2	5102.6000392437	Sum of GTIs [s]
ontime3	5099.4590688348	Sum of GTIs [s]
ontime6	5102.6000392437	Sum of GTIs [s]
l2events	16459	Number of level 2 events



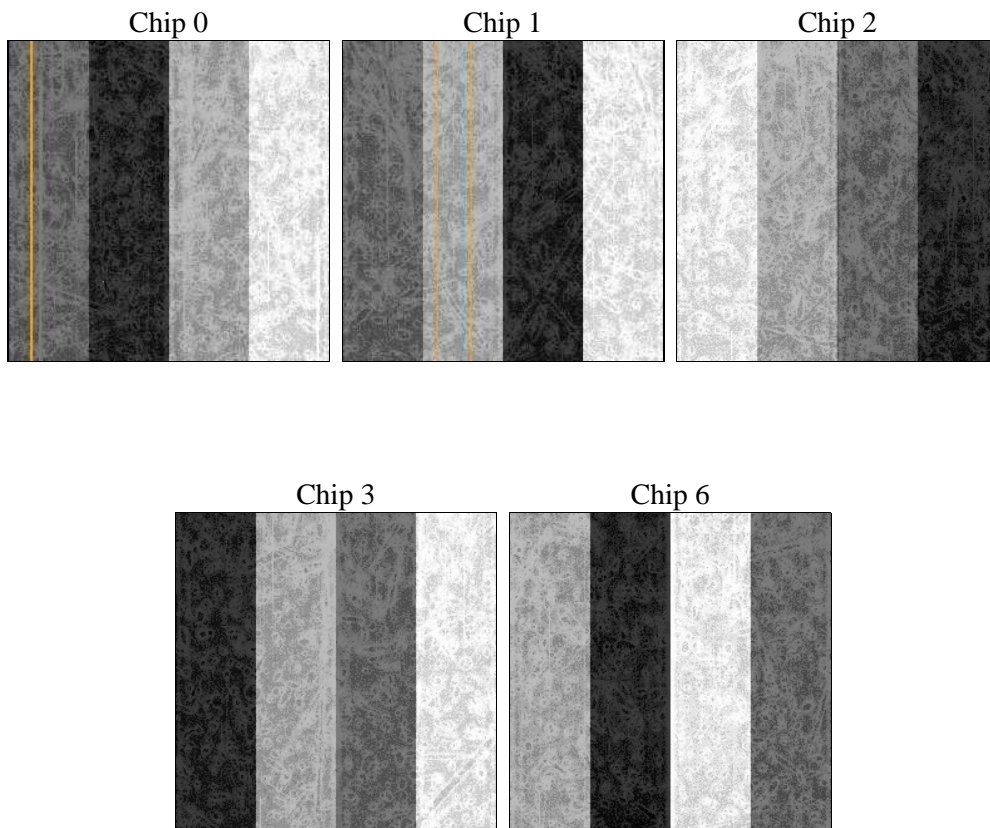
2 OBI

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	5099.4590688348	Sum of GTIs [s]
caldsver	4.4.9	 	ontime0	5102.6000392437	Sum of GTIs [s]
date	2012-04-10T09:03:36	Date and time of file creation	ontime1	5102.6000392437	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	5102.6000392437	Sum of GTIs [s]
			ontime3	5099.4590688348	Sum of GTIs [s]
			ontime6	5102.6000392437	Sum of GTIs [s]
			l1events	227566	Number of level 1 events

2.1.4 Events

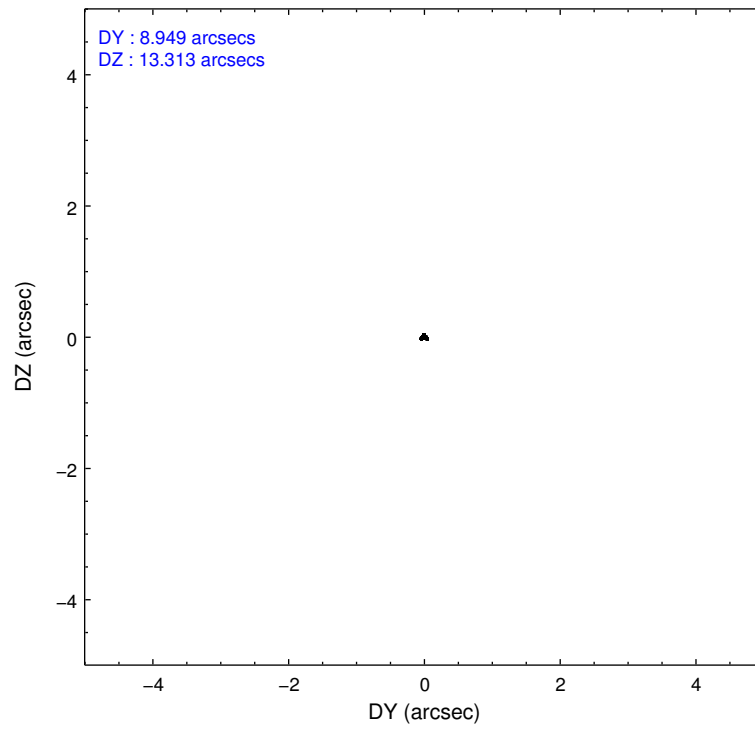
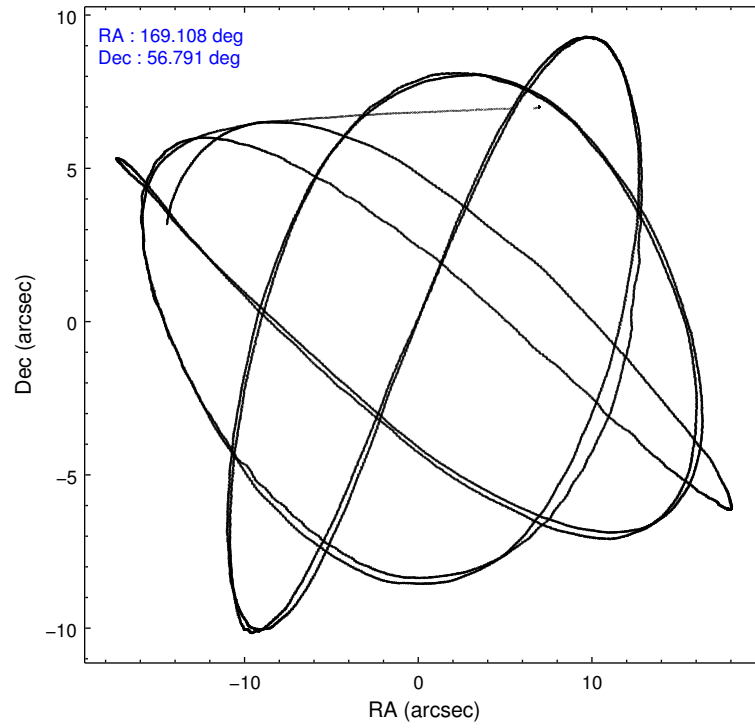
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	43029	44165	48521	47089	44762
rejected events	39205	39702	44780	43344	40657
rejected %	91%	89%	92%	92%	90%

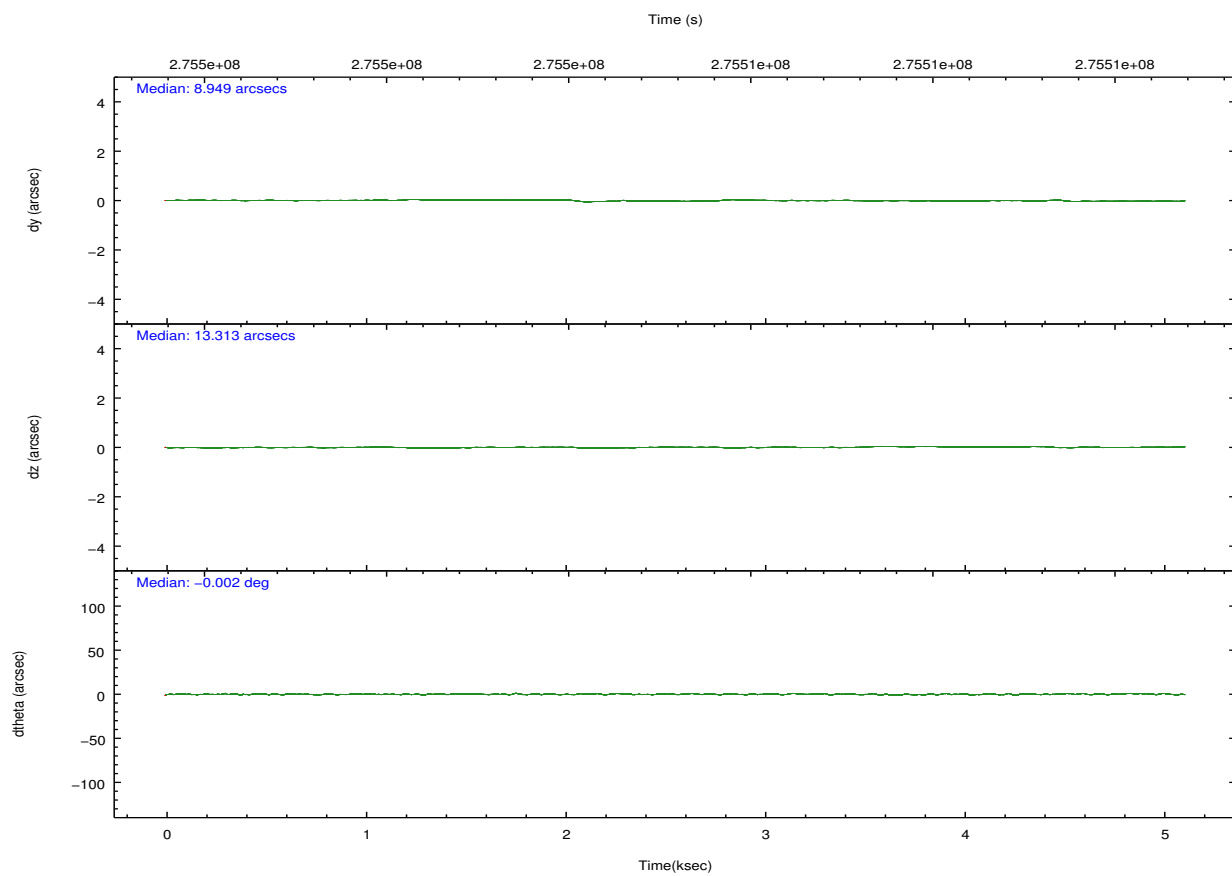
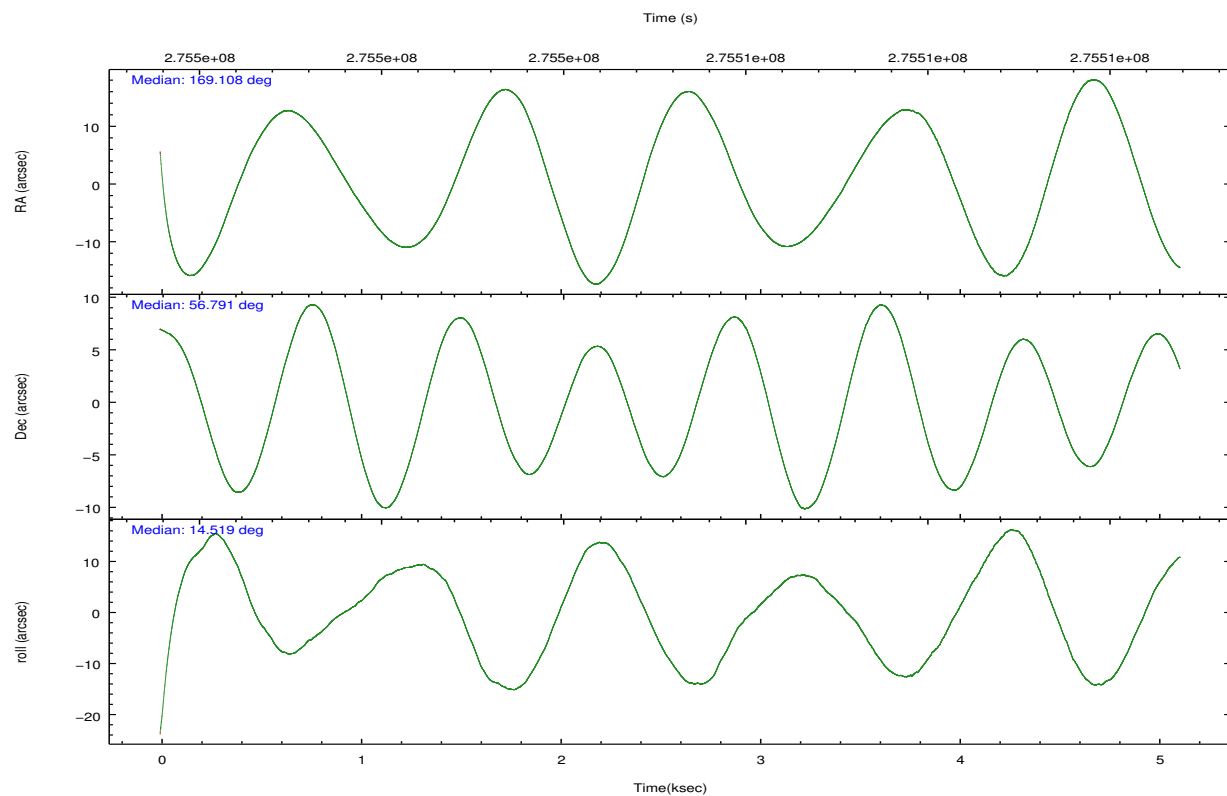
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	1602	1918	1719	1646	1767
	3%	4%	3%	3%	3%
grade 1 events	19	23	19	37	23
	0%	0%	0%	0%	0%
grade 2 events	1119	1256	1082	952	1051
	2%	2%	2%	2%	2%
grade 3 events	514	547	461	529	523
	1%	1%	0%	1%	1%
grade 4 events	527	601	493	522	504
	1%	1%	1%	1%	1%
grade 5 events	1511	1846	1493	1817	1900
	3%	4%	3%	3%	4%
grade 6 events	918	1076	799	863	1106
	2%	2%	1%	1%	2%
grade 7 events	36819	36898	42455	40723	37888
	85%	83%	87%	86%	84%

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	169.072893	169.1083383617928	Subarray requested	NONE	NONE
[deg] Pointing Dec	56.771730	56.79108272257243	Alternating exposures requested	N	N
[deg] Pointing Roll	14.348079	14.52708974208126	[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)	275503140.184000	275501651.77895			
Observation start date	2006-09-24T16:37:55	2006-09-24T16:14:11			
[s] Observation end time (MET)	275508140.184000	275509019.9918			
Observation end date	2006-09-24T18:01:15	2006-09-24T18:16:59			
Read mode	TIMED	TIMED			

2.3 Aspect



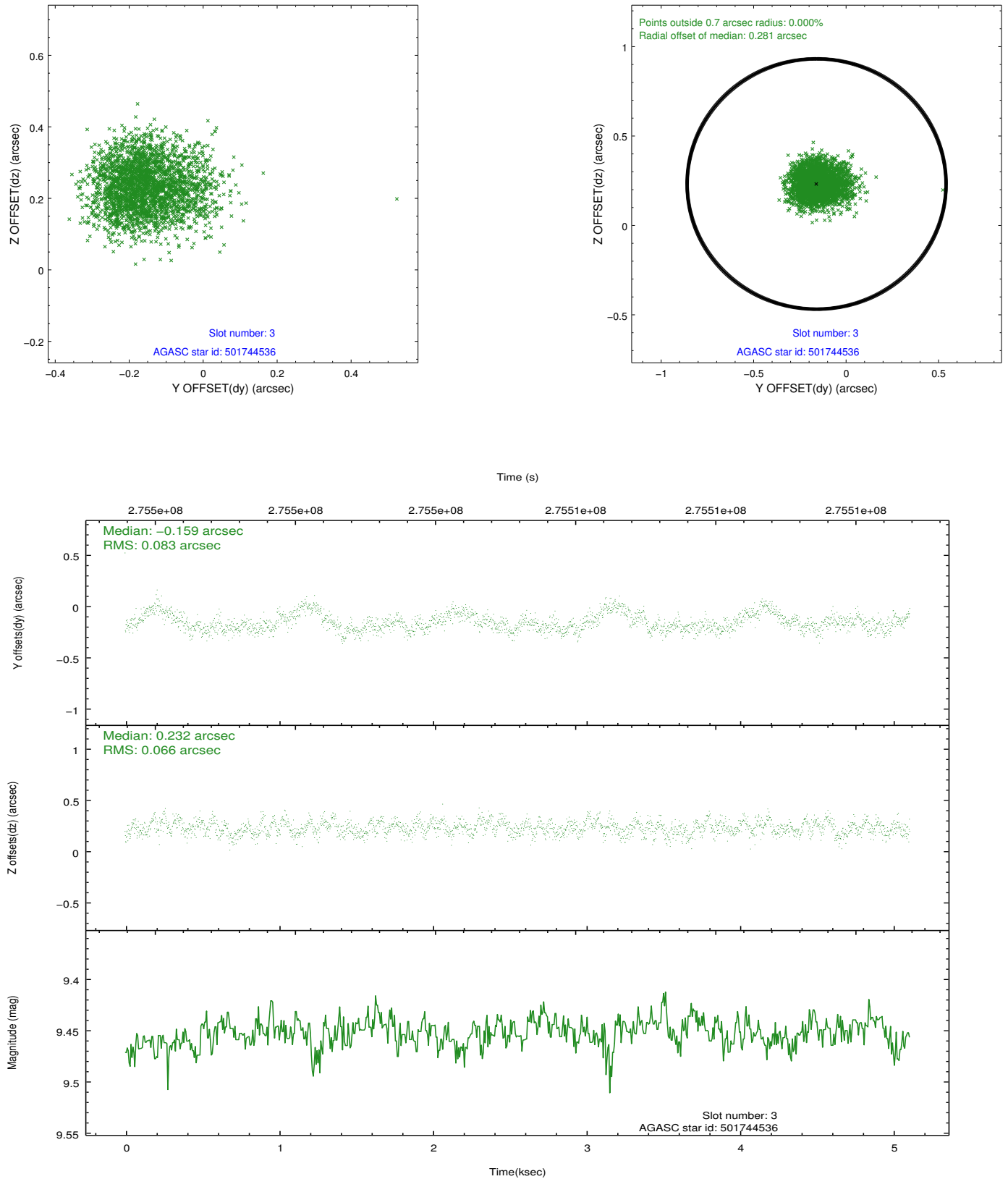


Slot Statistics

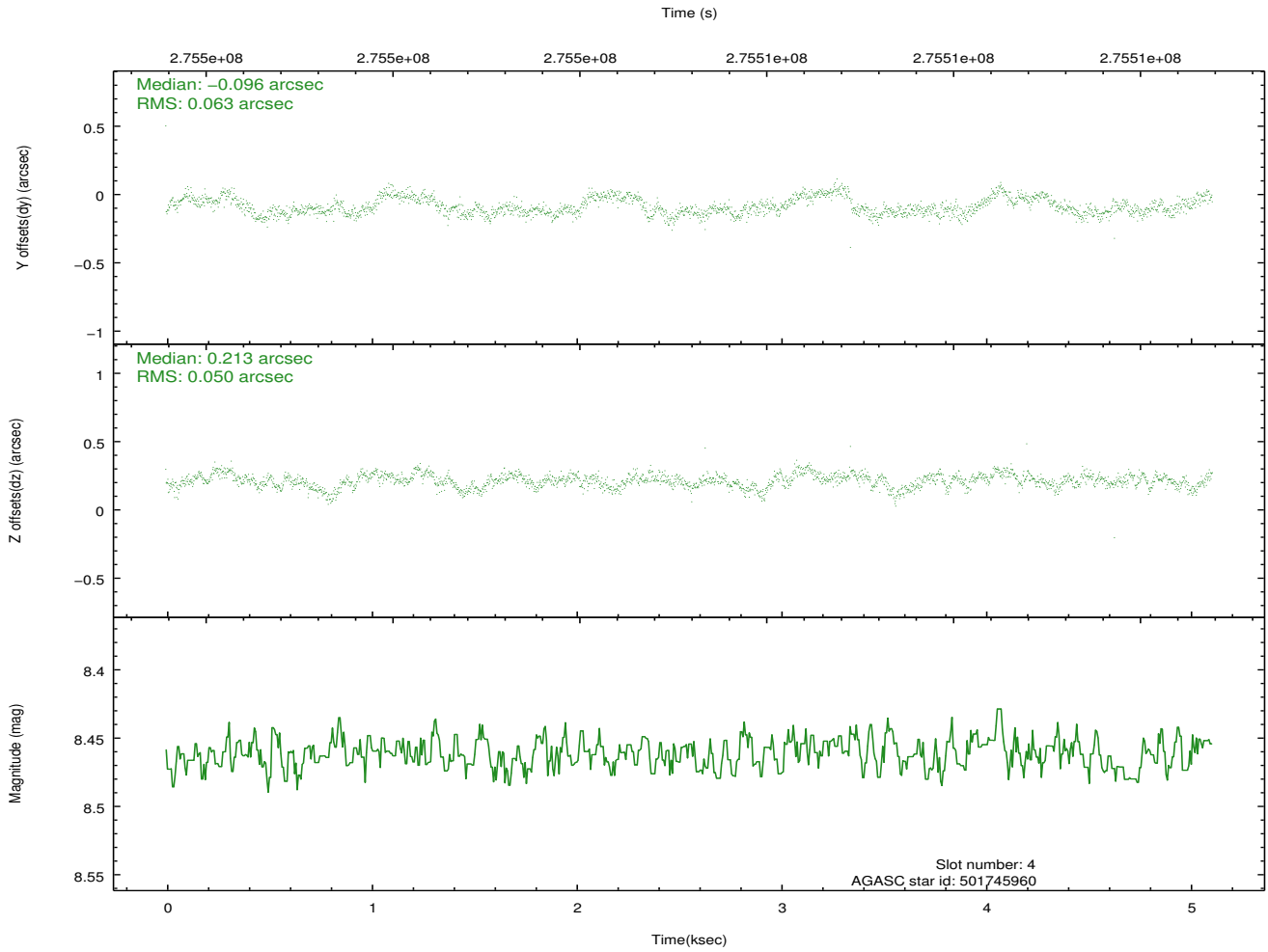
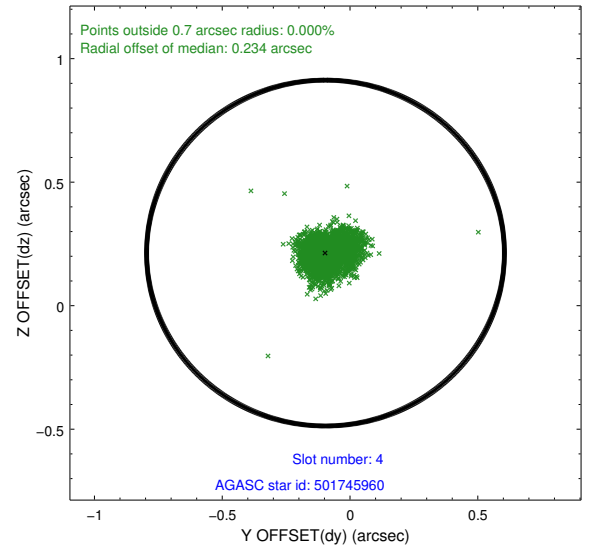
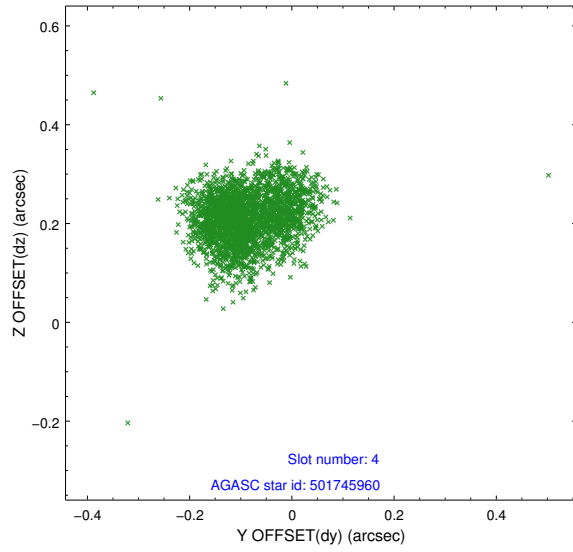
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	1247	0.033	0.004	0.007	0.012	0.000000	0.000000	930.71	-836.87
1	FID	ACIS-I-5	7.23	1245	-0.192	0.046	0.007	0.013	0.000000	0.000000	-1816.96	1060.06
2	FID	ACIS-I-6	7.24	1247	0.067	0.020	0.007	0.013	0.000000	0.000000	395.00	1705.89
3	GUIDE	501744536	9.45	2493	-0.159	0.232	0.113	0.181	169.793252	56.284902	962.51	-2047.06
4	GUIDE	501745960	8.46	2494	-0.096	0.213	0.084	0.133	170.066430	56.606700	1764.11	-1050.07
5	GUIDE	501620848	9.31	2492	0.078	-0.281	0.133	0.212	167.963691	57.281851	-1630.88	2329.94
6	GUIDE	501613824	10.15	2488	0.154	0.114	0.199	0.300	168.164349	56.160287	-2307.43	-1668.98
7	GUIDE	501747432	9.89	2488	0.007	-0.276	0.141	0.226	169.486750	57.497356	1422.59	2333.91

2.4 Star Slots

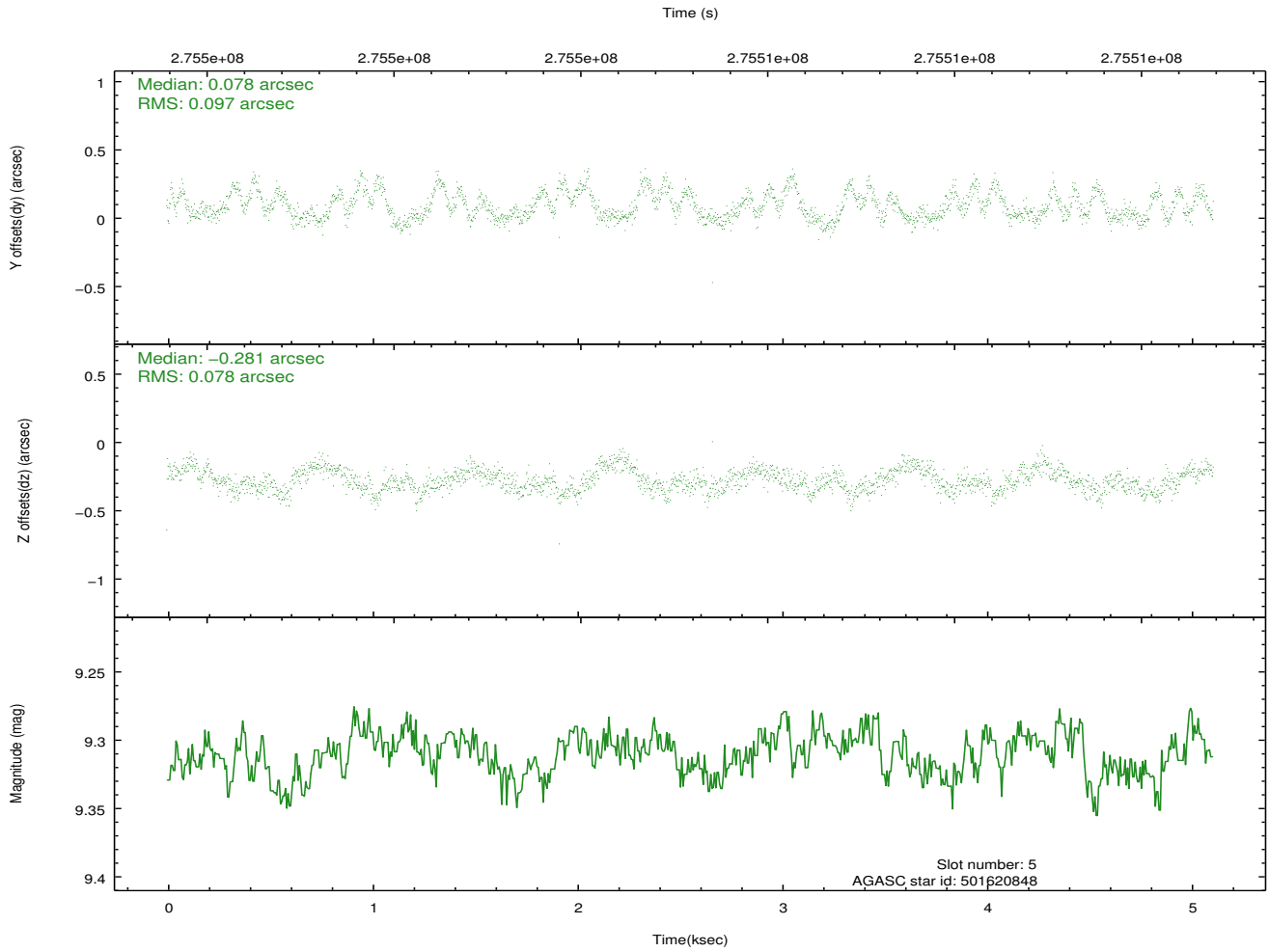
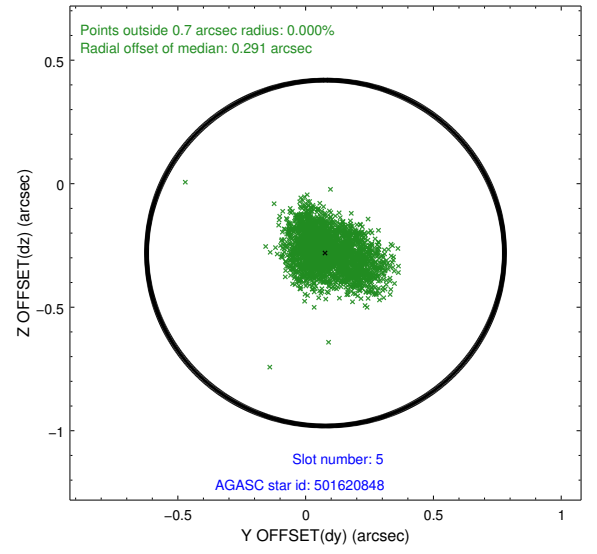
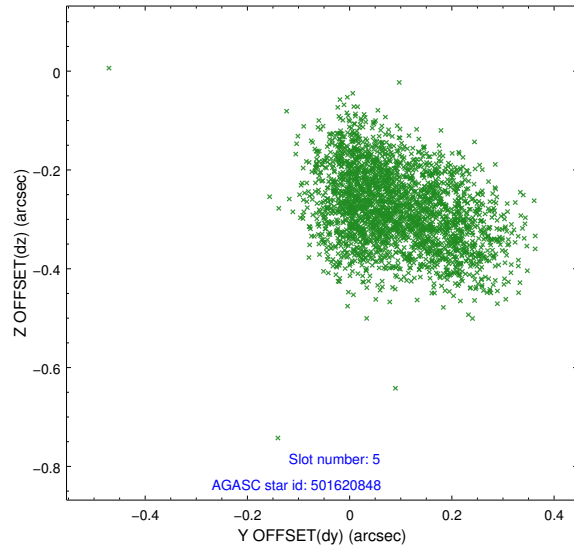
2.4.1 Slot 3



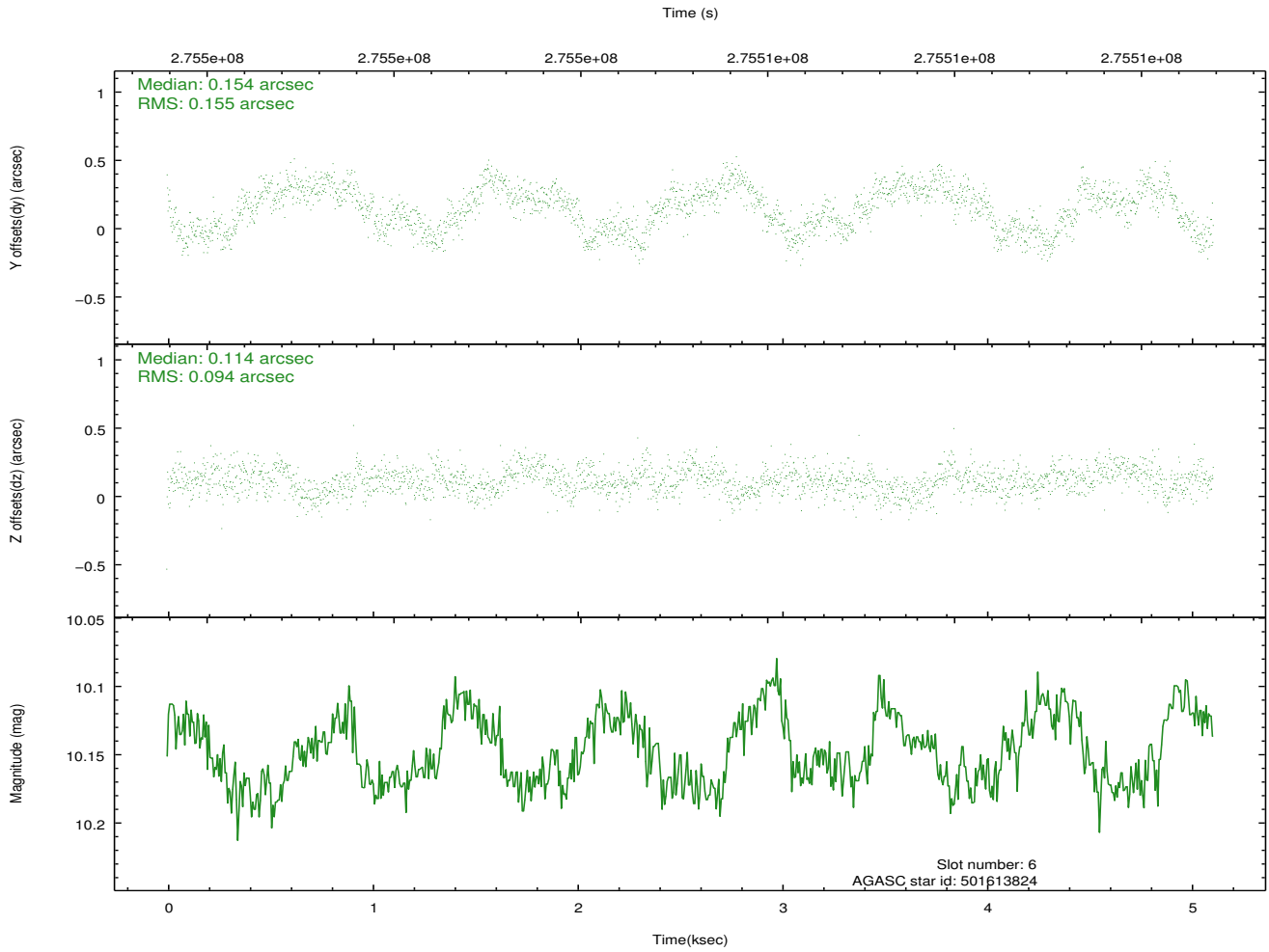
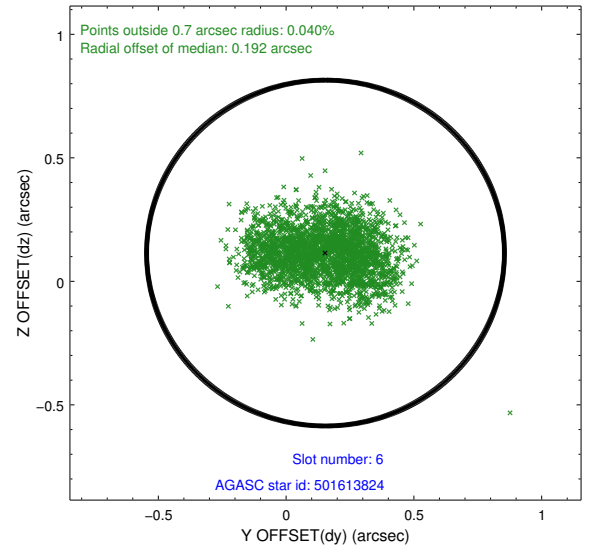
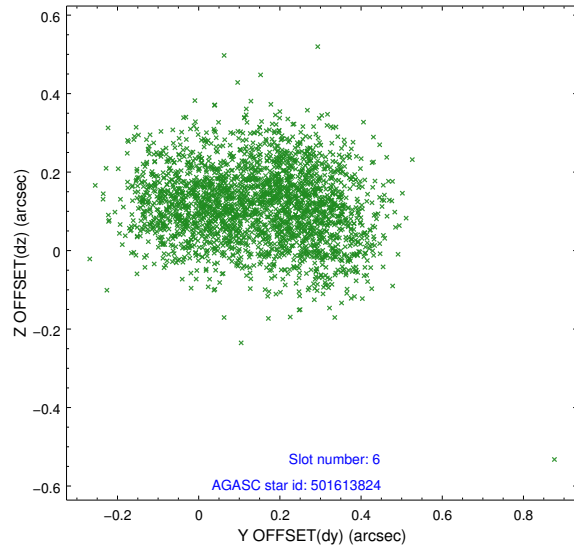
2.4.2 Slot 4



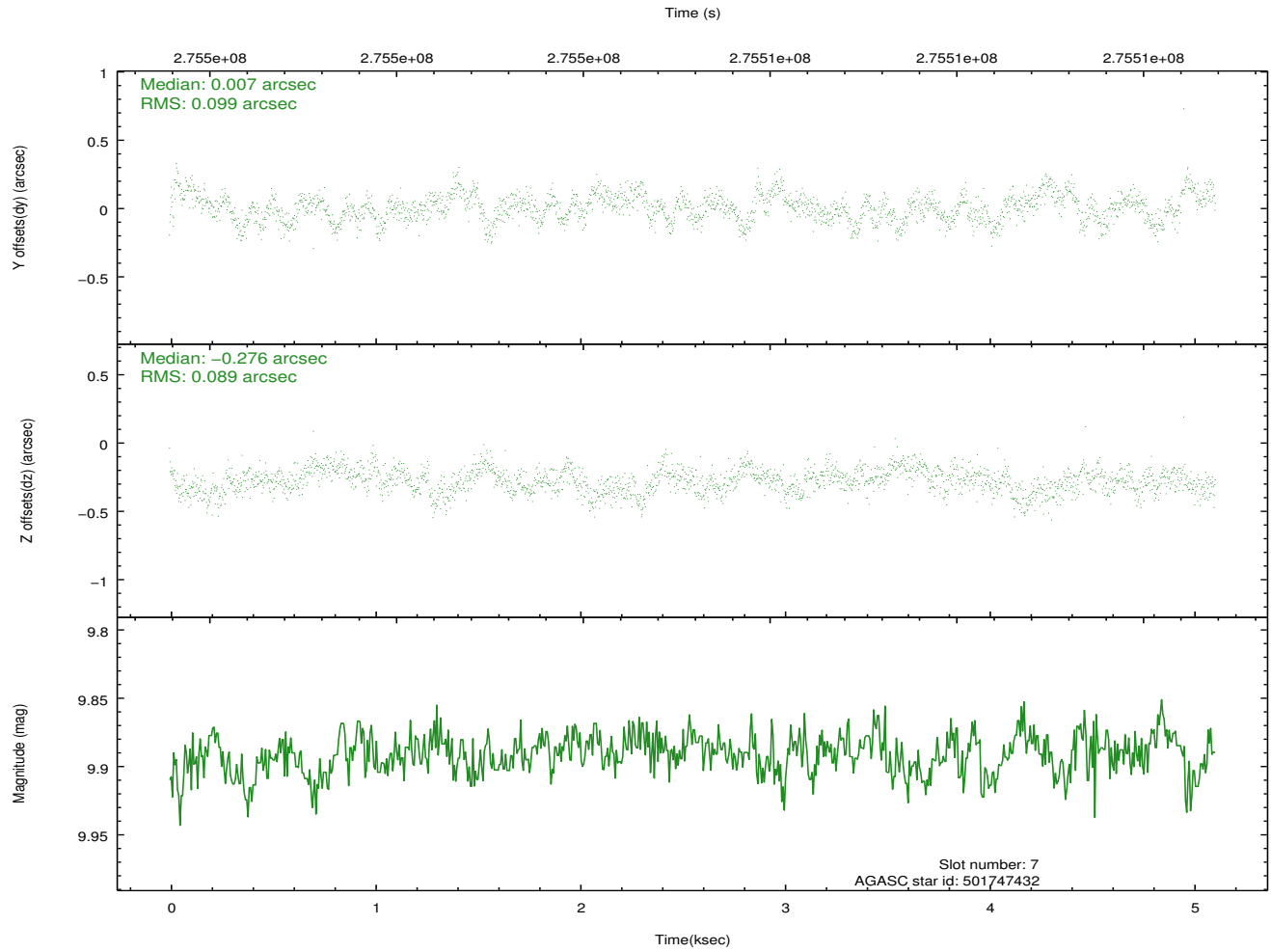
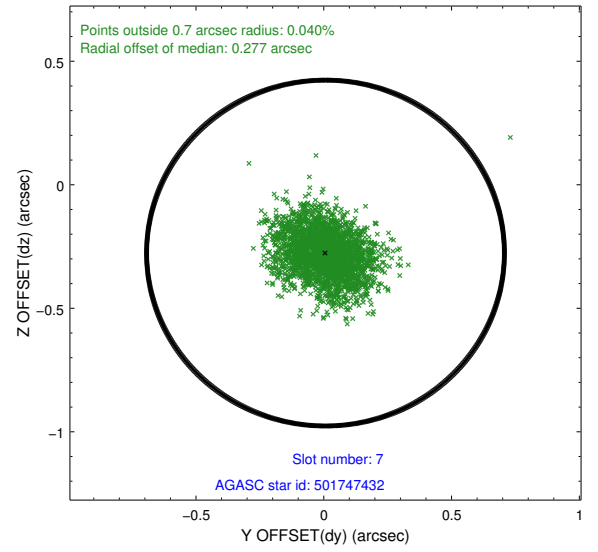
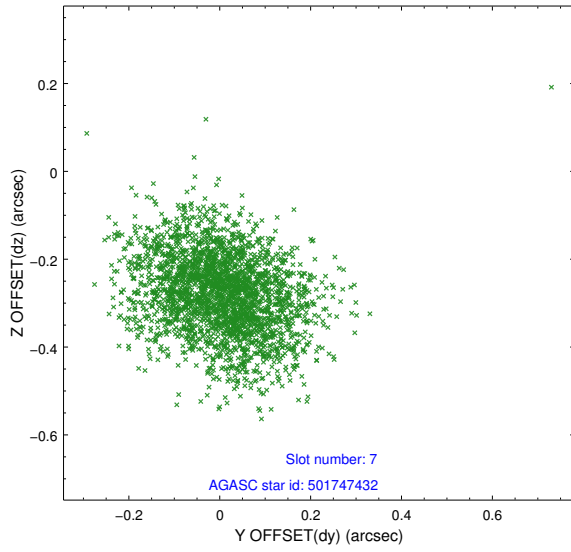
2.4.3 Slot 5



2.4.4 Slot 6

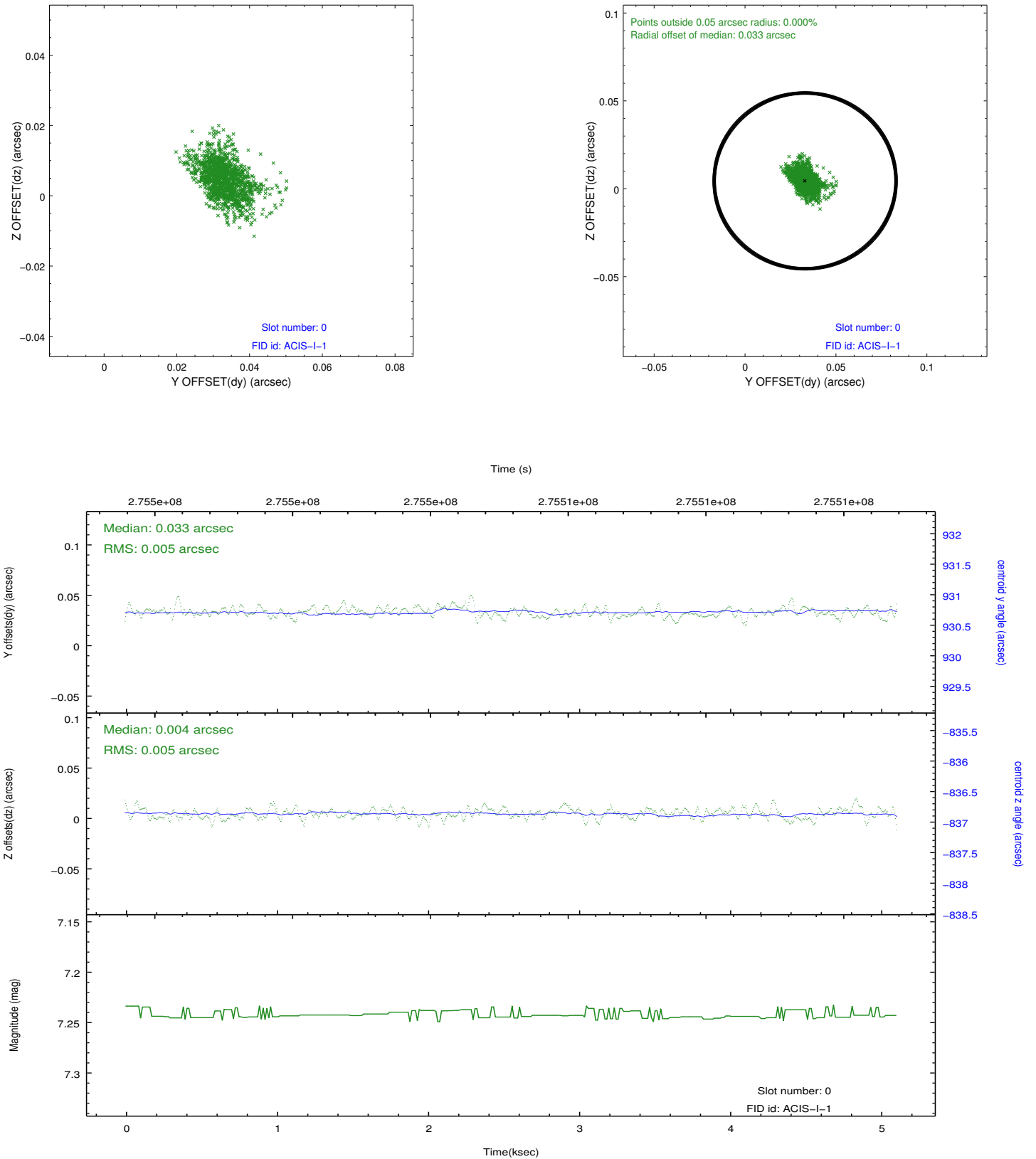


2.4.5 Slot 7

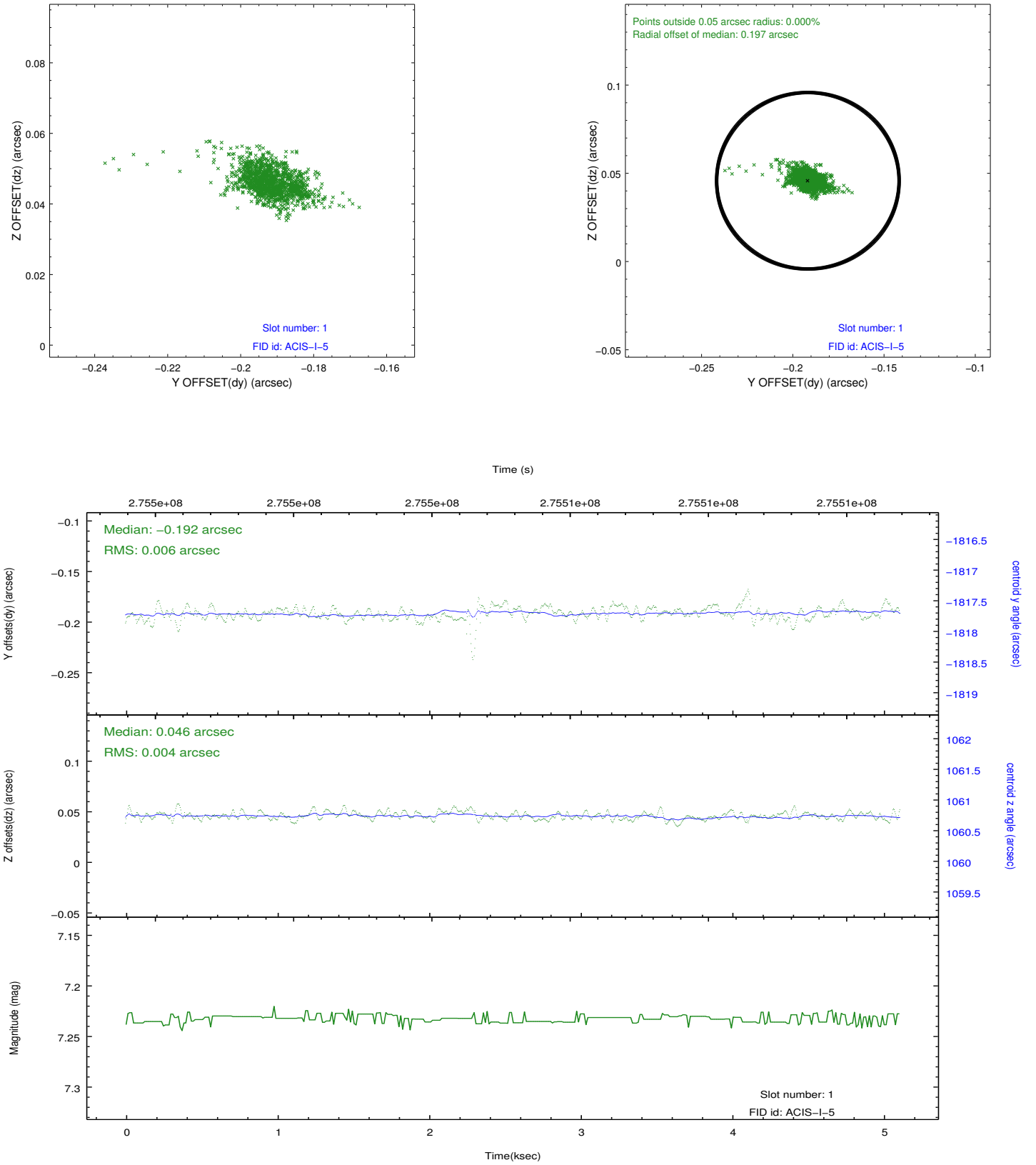


2.5 FID Slots

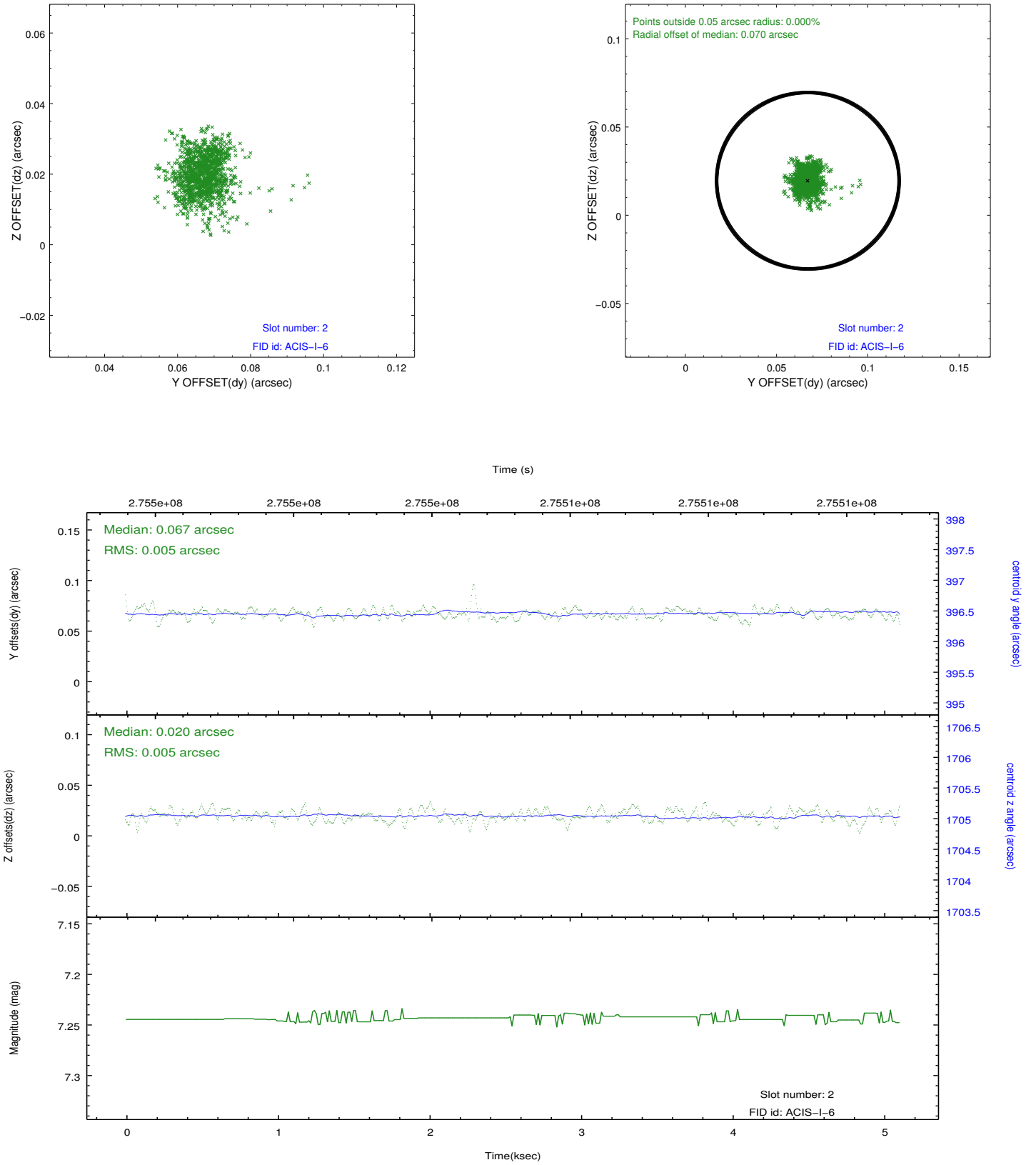
2.5.1 Slot 0



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)	2012.04.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.09945906

A.2 Comments