

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 1612 - L2 Version 4
Chandra X-Ray Center

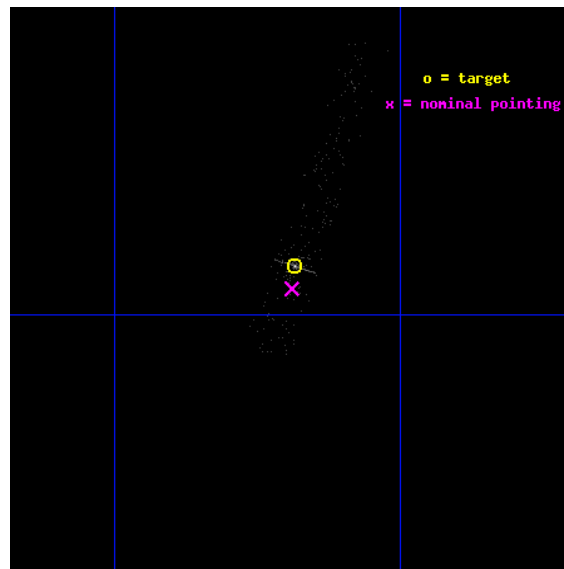
L2 Processing Date : Sep 7 2012

Contents

1	Front	2
2	OBI Primary	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
3	OBI Secondary	17
3.1	OBI	17
3.1.1	Images	17
3.1.2	Bias	17
3.1.3	Parameters	18
3.1.4	Events	18
A	Summary	19
A.1	Status	19
A.2	Comments	19

1 Front

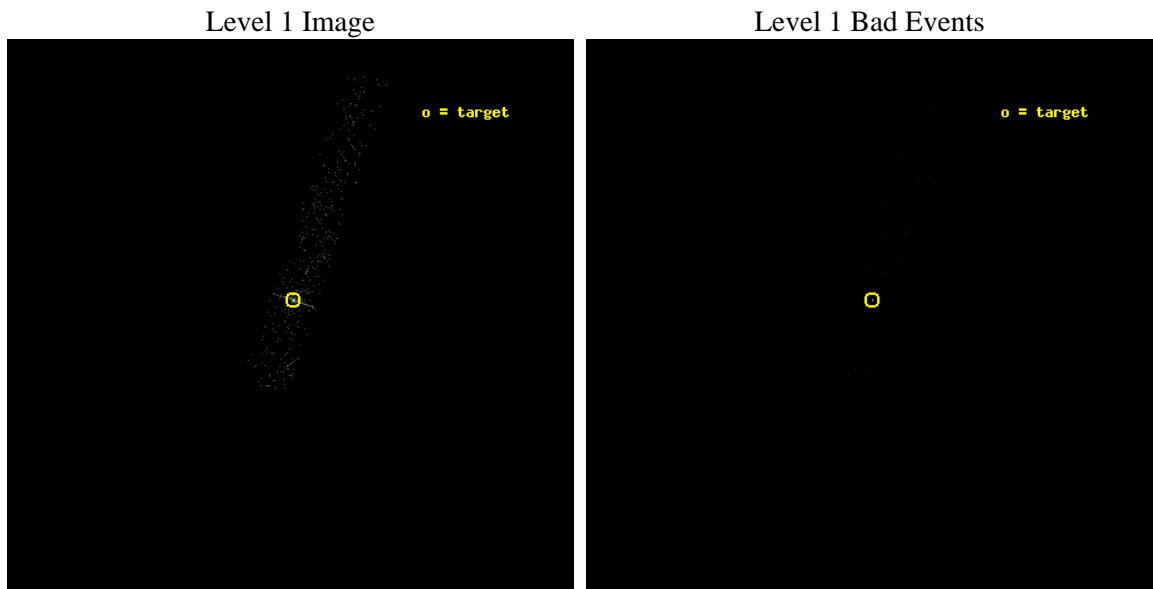
seq_num	700228	Sequence number
obs_id	1612	Observation id
title	STUDIES OF RADIO JETS AND THE NARROW LINE REGIONS OF ACTIVE GALAXIES	
observer	Professor Andrew Wilson	Principal investigator
object	3C120	Source name
dtcycle	0	
cycle	P	events are from which exps? P[rimary] S[econdar]
ra_targ	68.29625	Observer's specified target RA [deg]
dec_targ	5.354333	Observer's specified target Dec [deg]
ra_nom	68.297596413487	Nominal RA [deg]
dec_nom	5.3445464834932	Nominal Dec [deg]
roll_nom	288.14513618677	Nominal Roll [deg]
revision	4	Processing version of data
ontime	997.14337980747	Sum of GTIs [s]
livetime	174.93743505394	Livetime [s]
ontime7	997.14337980747	Sum of GTIs [s]
l2events	1282	Number of level 2 events



2 OBI Primary

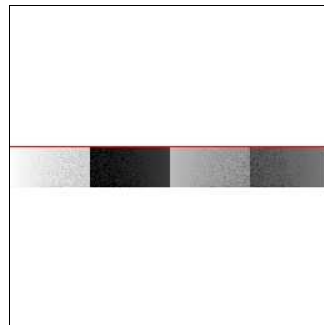
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



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	997.14337980747	Sum of GTIs [s]
caldsver	4.5.1.1	 	ontime7	997.14337980747	Sum of GTIs [s]
date	2012-09-07T04:30:57	Date and time of file creation	l1events	1683	Number of level 1 events
revision	4	Processing version of data			

2.1.4 Events

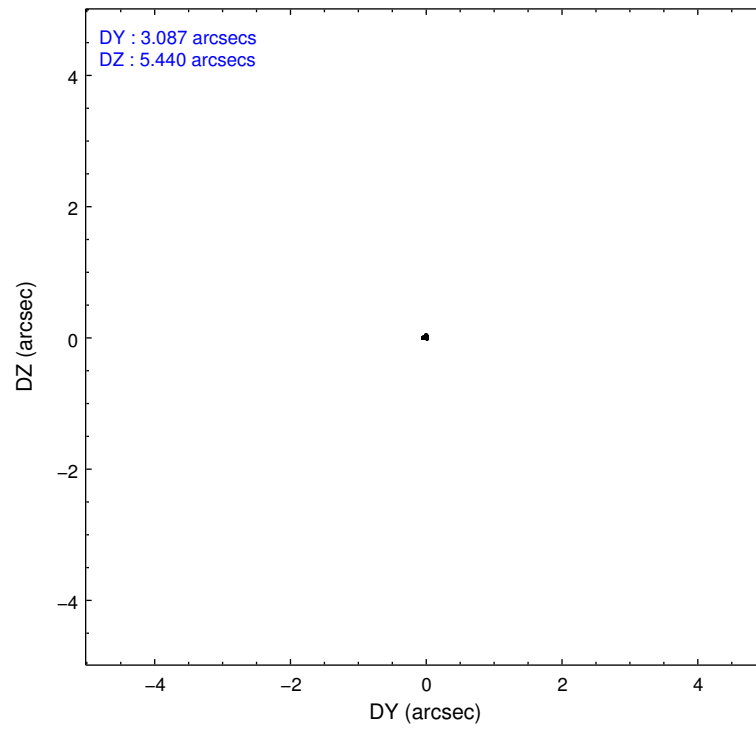
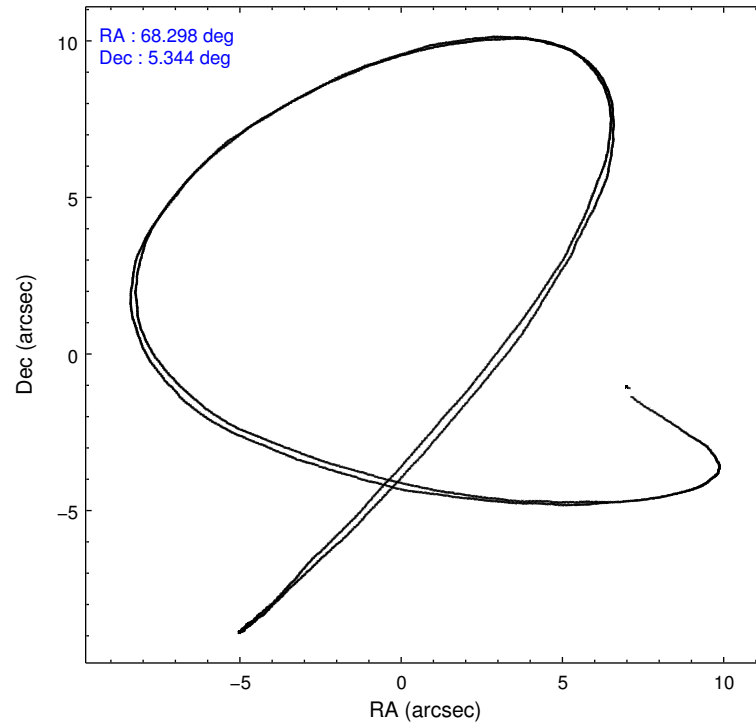
	ccd 7
level 1 events	1683
rejected events	387
rejected %	22%

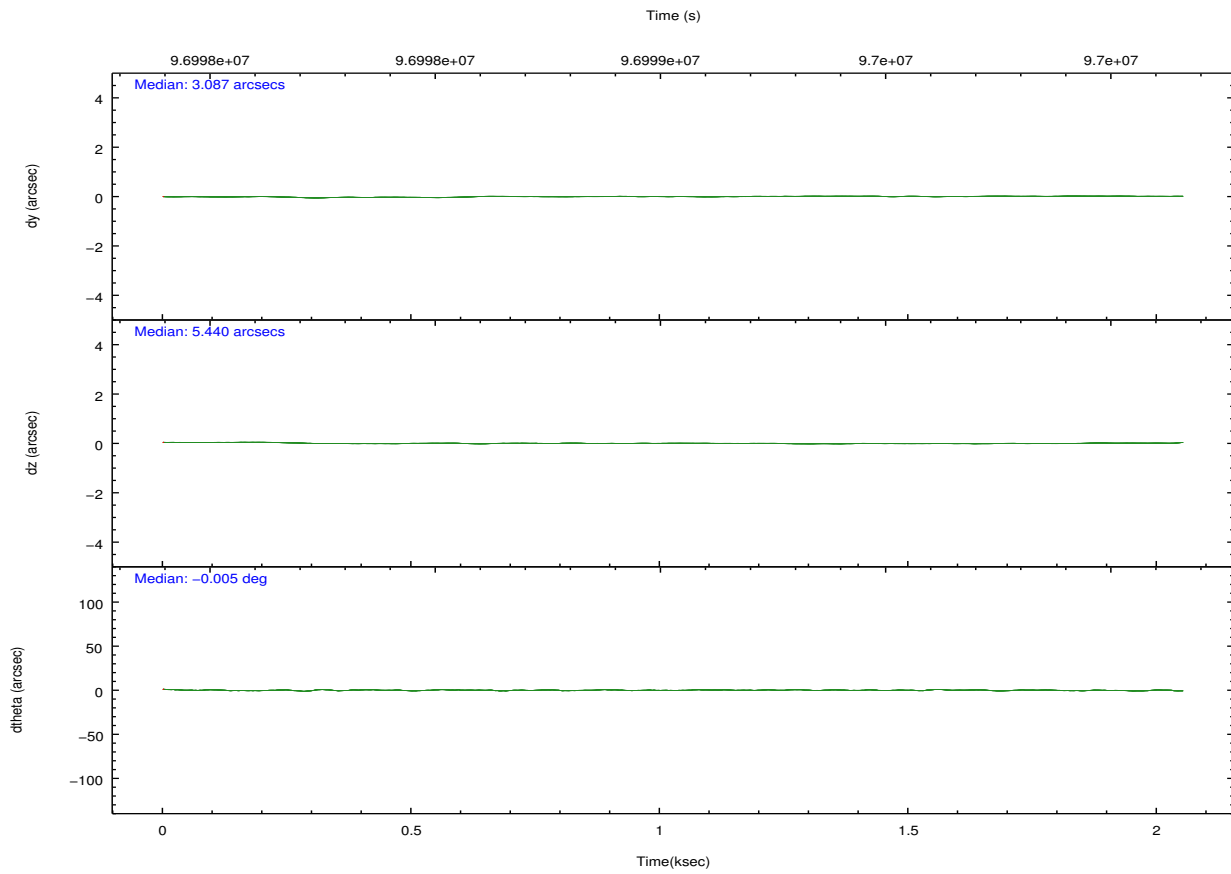
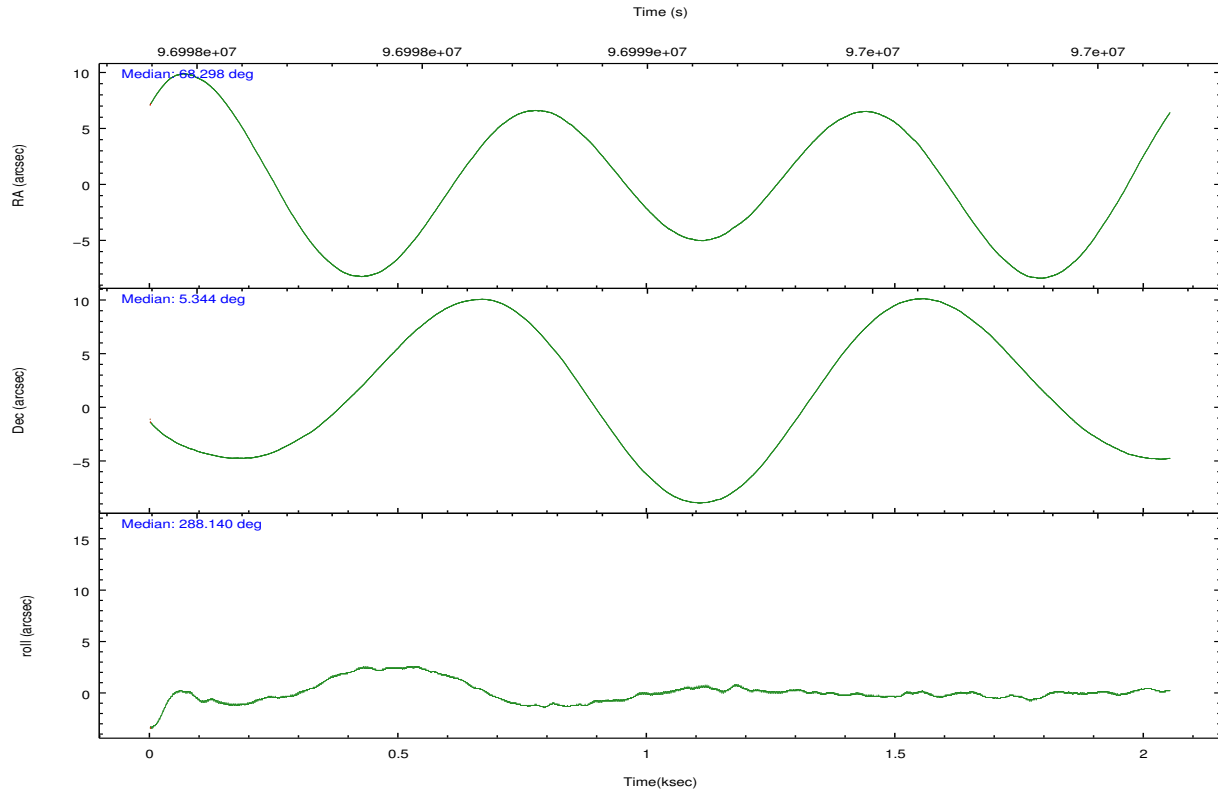
	ccd 7
grade 0 events	309
	18%
grade 1 events	16
	0%
grade 2 events	301
	17%
grade 3 events	155
	9%
grade 4 events	158
	9%
grade 5 events	98
	5%
grade 6 events	373
	22%
grade 7 events	273
	16%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	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	68.276997	68.29759641348659	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	5.362650	5.34454648349322	Subarray start row	447	447
[deg] Pointing Roll	287.990425	288.1451361867698	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	Y	Y
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.100000	0.1
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	[s] Secondary exposure time	0.000000	0.4
[mm] SIM translation stage offset	0	0.01005778216563158	Duty cycle	1	1
[s] Observation start time (MET)	96999053.184000	96997667.039708			
Observation start date	2001-01-27T16:09:49	2001-01-27T15:47:47			
[s] Observation end time (MET)	97000053.184000	97000972.152336			
Observation end date	2001-01-27T16:26:29	2001-01-27T16:42:52			
Read mode	TIMED	TIMED			

2.3 Aspect



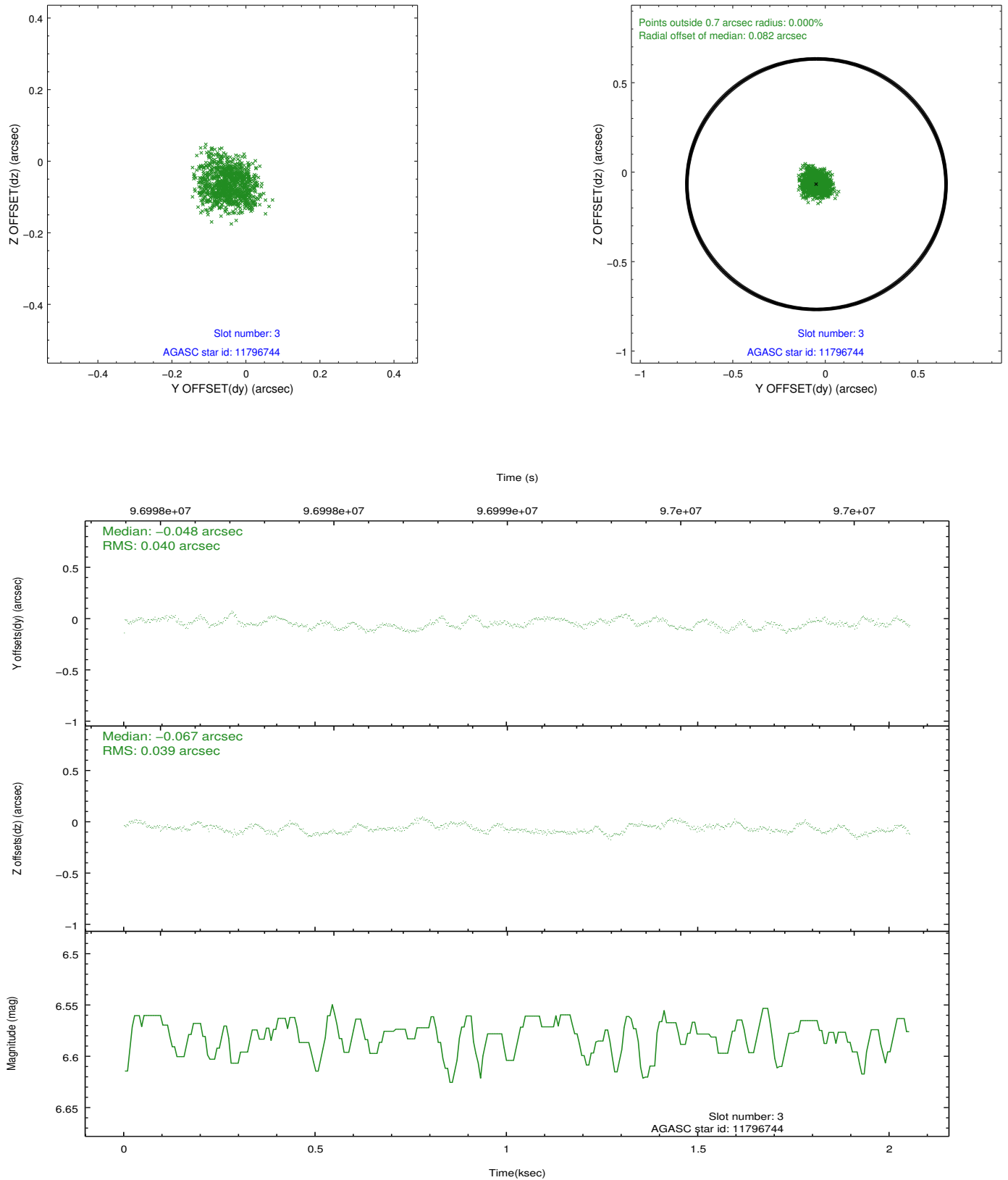


Slot Statistics

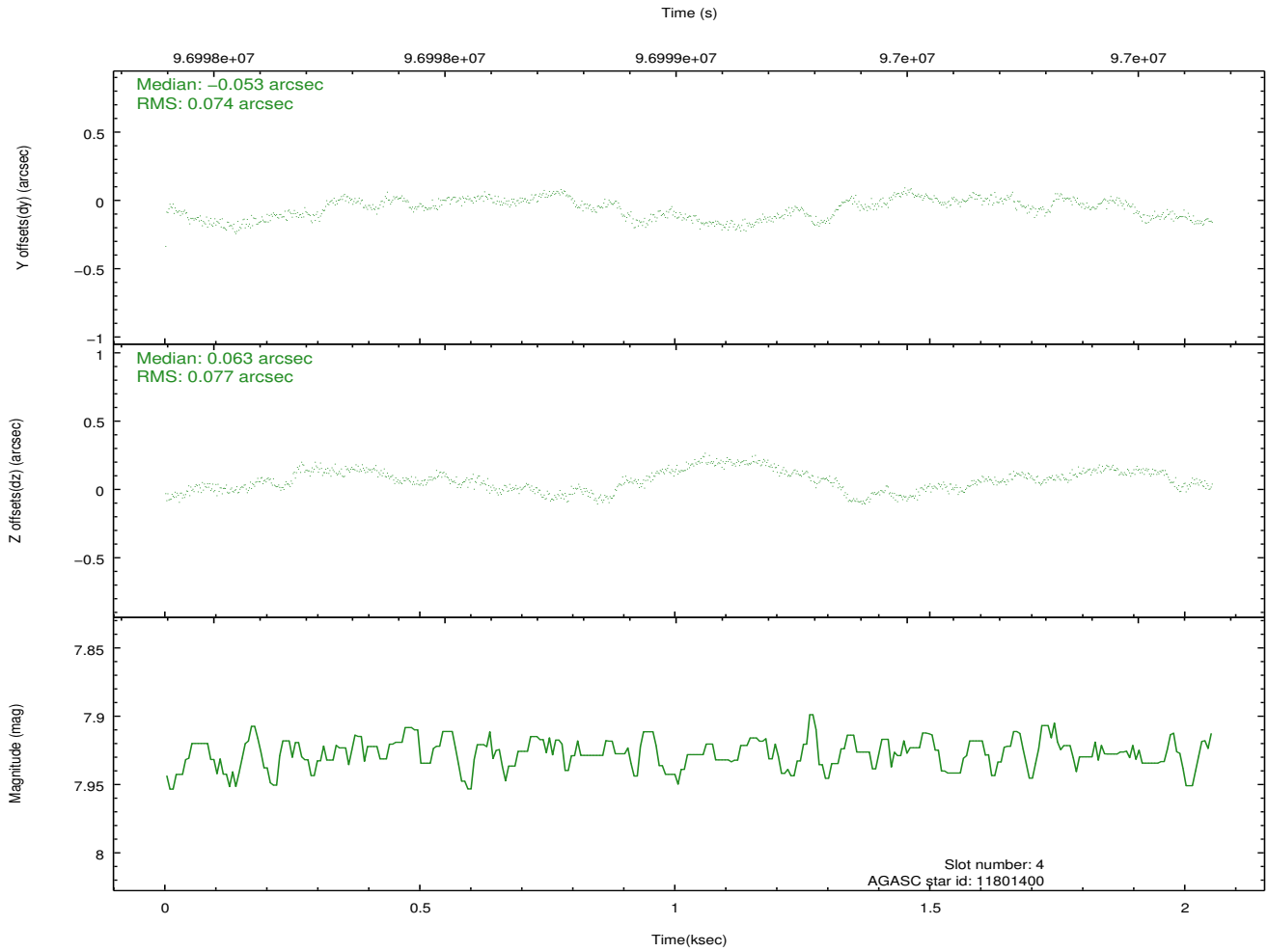
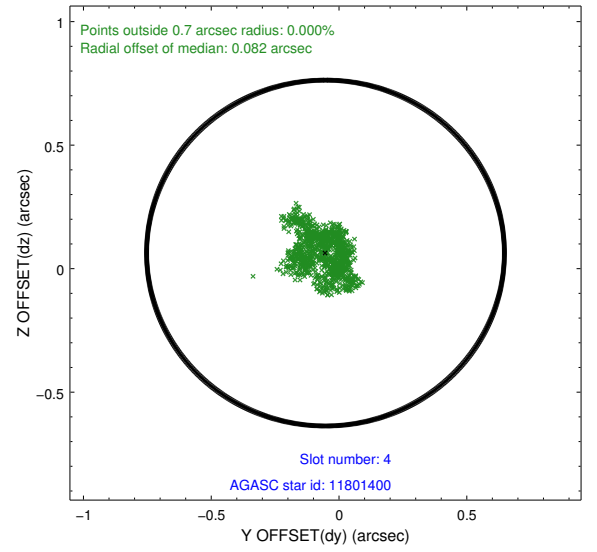
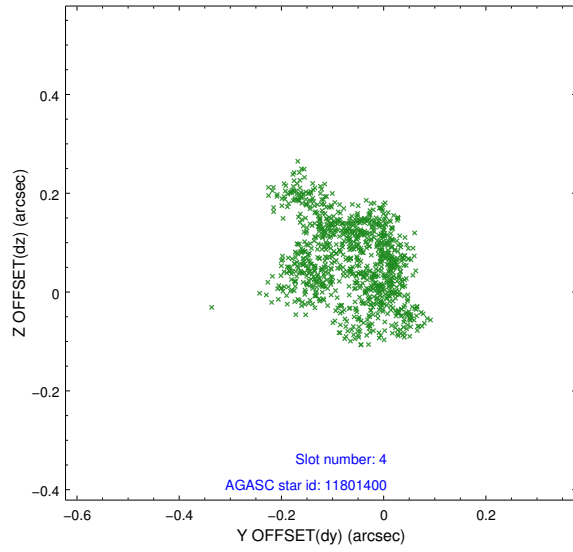
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	501	-0.023	0.007	0.006	0.010	0.000000	0.000000	-755.71	-1726.52
1	FID	ACIS-S-4	7.20	501	-0.029	0.009	0.005	0.009	0.000000	0.000000	2156.08	178.74
2	FID	ACIS-S-5	7.24	501	0.021	-0.007	0.006	0.011	0.000000	0.000000	-1804.45	175.93
3	GUIDE	11796744	6.58	1002	-0.048	-0.067	0.061	0.092	68.020033	5.410032	-446.76	-823.51
4	GUIDE	11801400	7.93	1002	-0.053	0.063	0.113	0.177	68.459989	5.385023	125.60	647.43
5	GUIDE	11801640	8.21	1002	0.246	-0.154	0.075	0.125	67.856054	4.575290	2229.59	-2311.80
6	GUIDE	12327088	8.62	1002	-0.184	0.073	0.056	0.093	67.823561	5.844308	-2149.18	-1011.58
7	GUIDE	11798168	8.73	1000	0.049	0.083	0.061	0.101	68.723067	4.993277	1756.19	1109.96

2.4 Star Slots

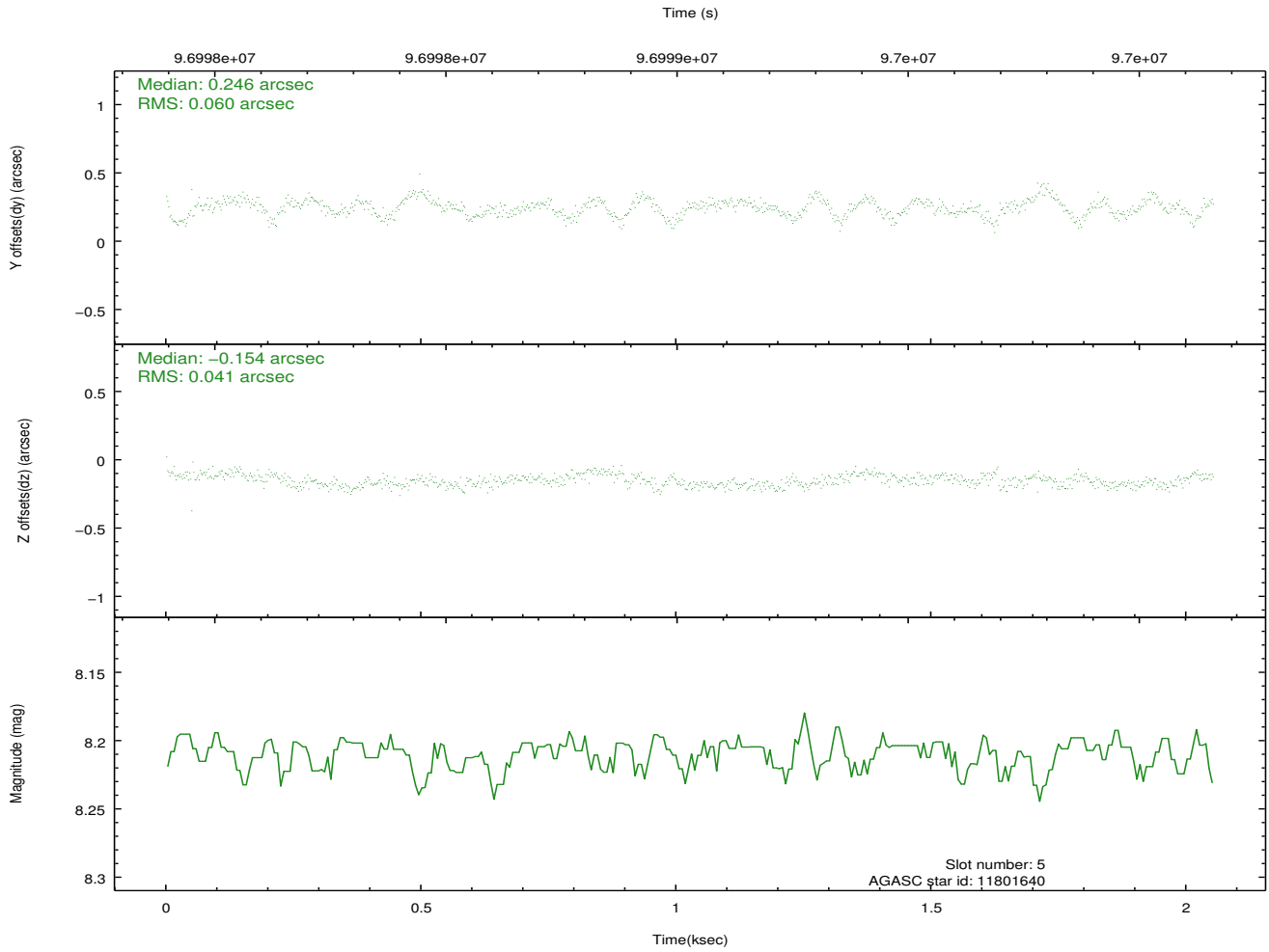
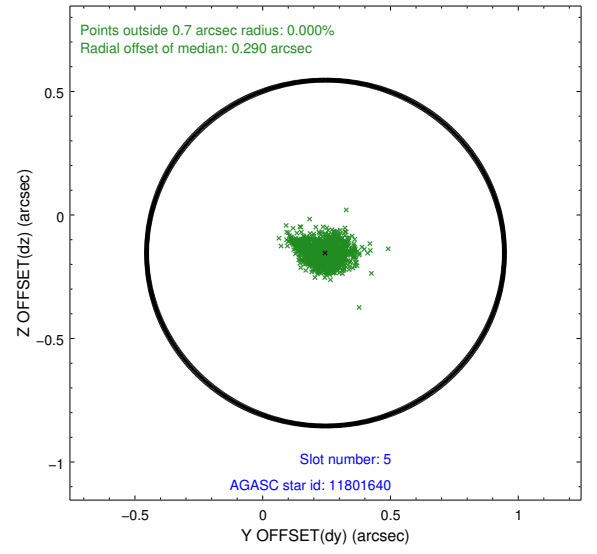
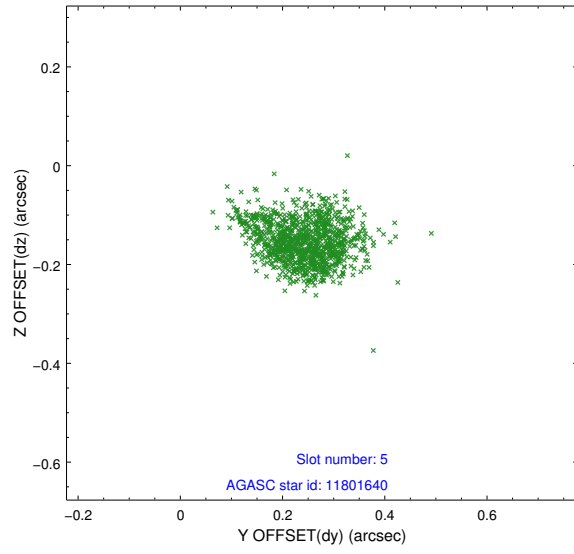
2.4.1 Slot 3



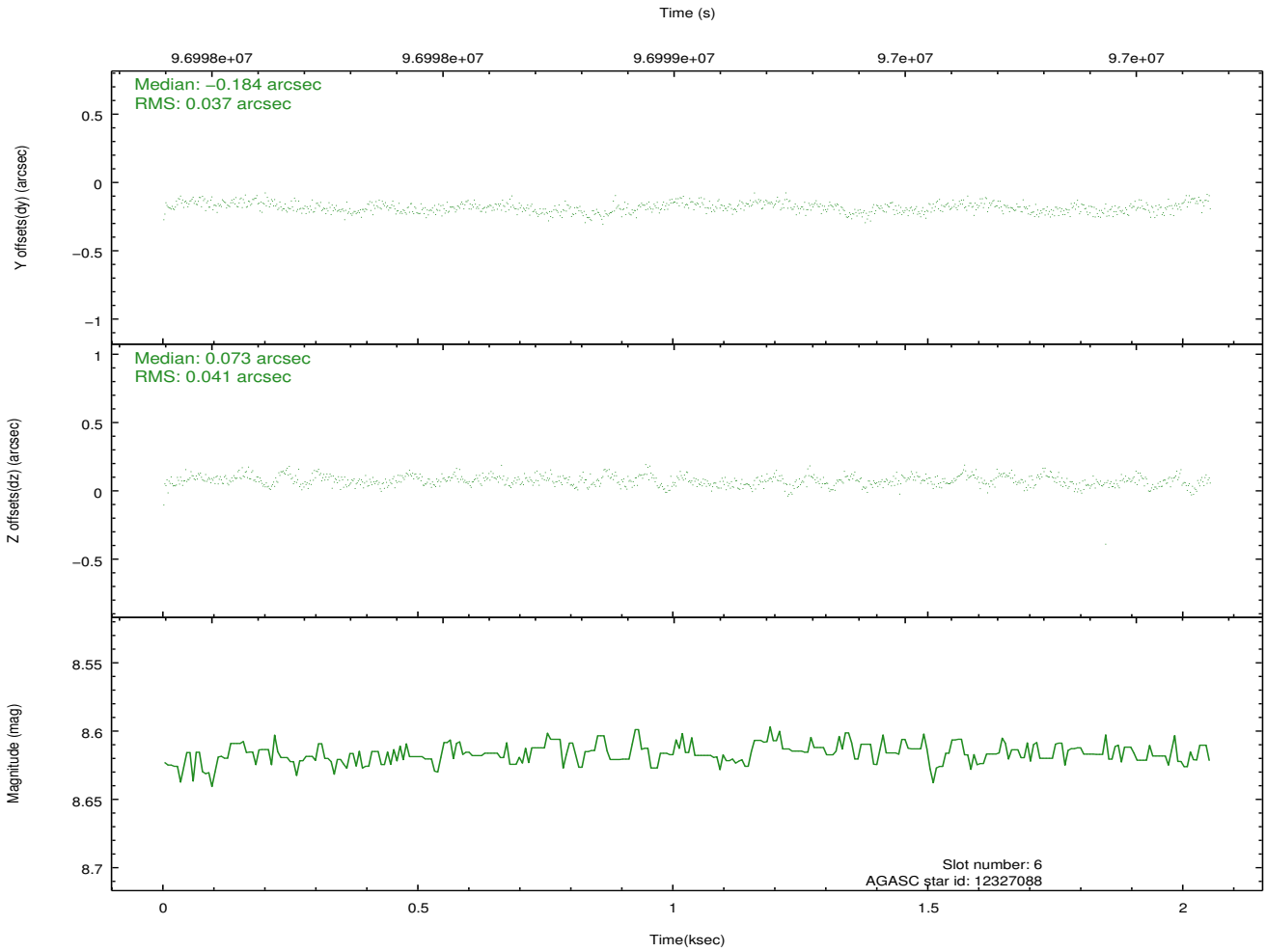
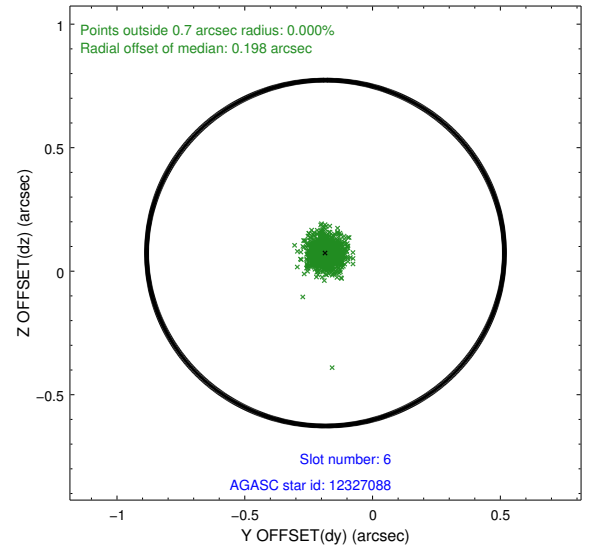
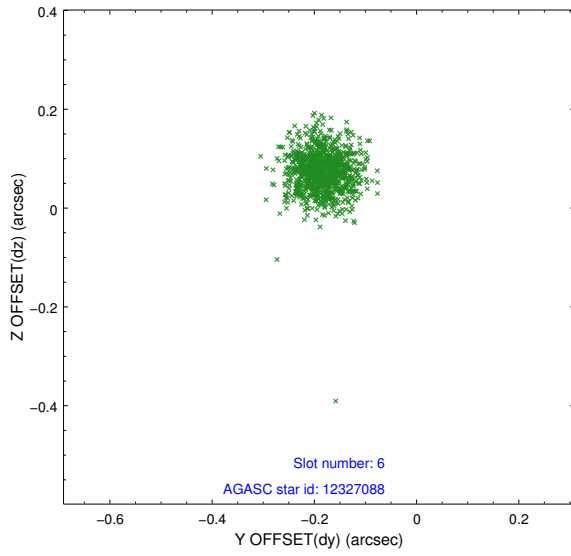
2.4.2 Slot 4



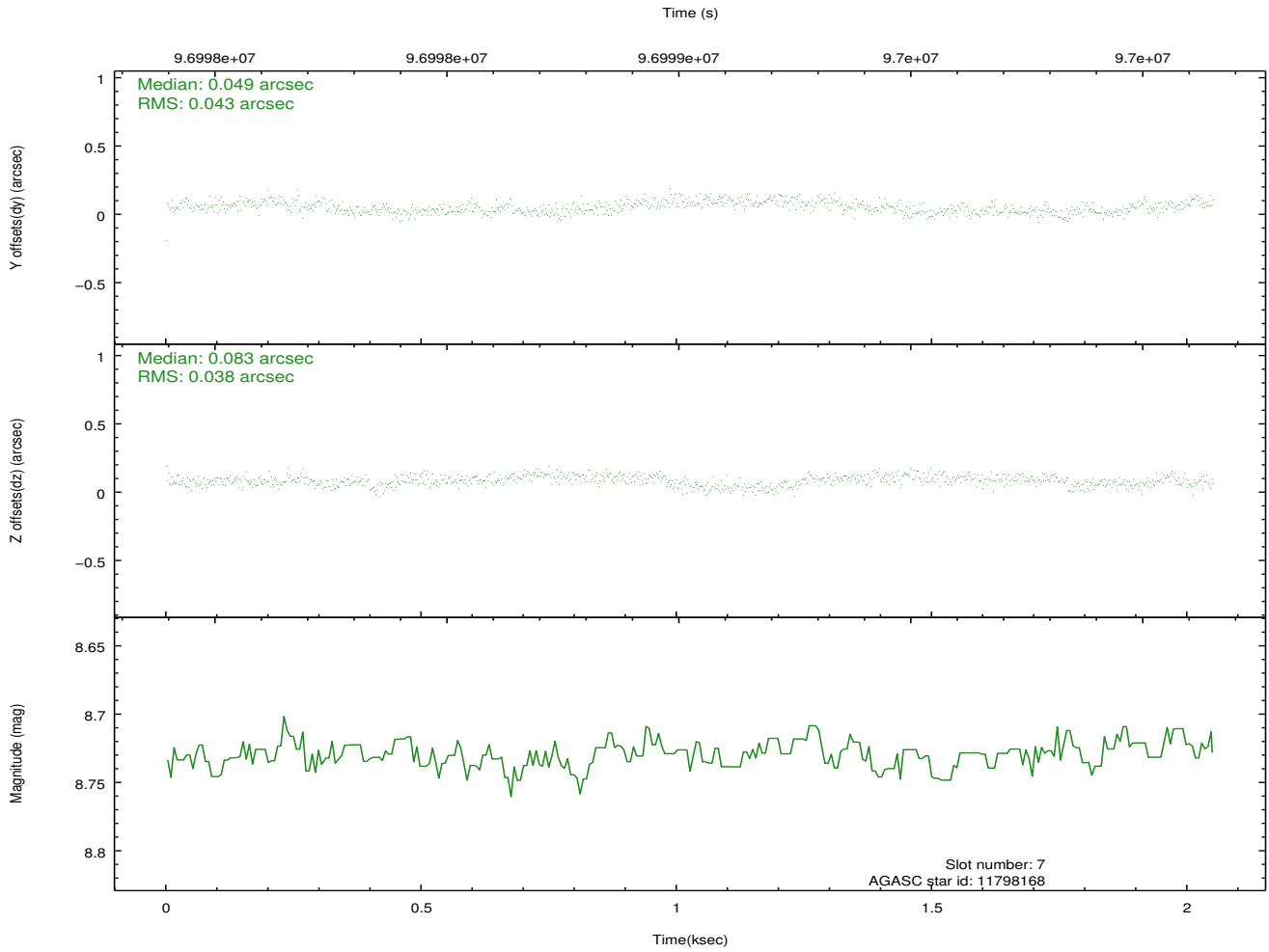
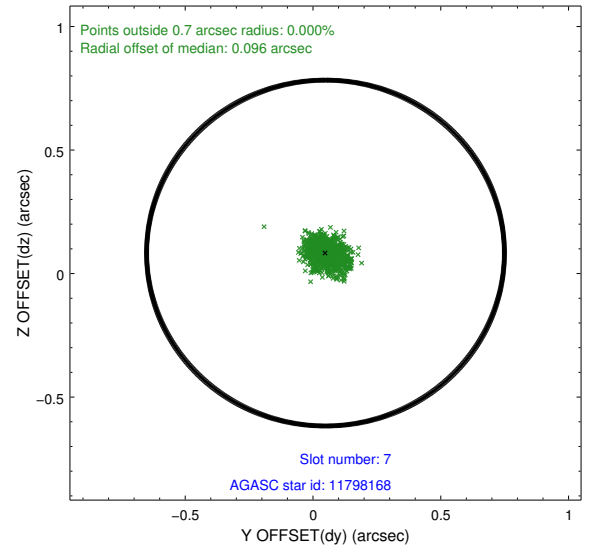
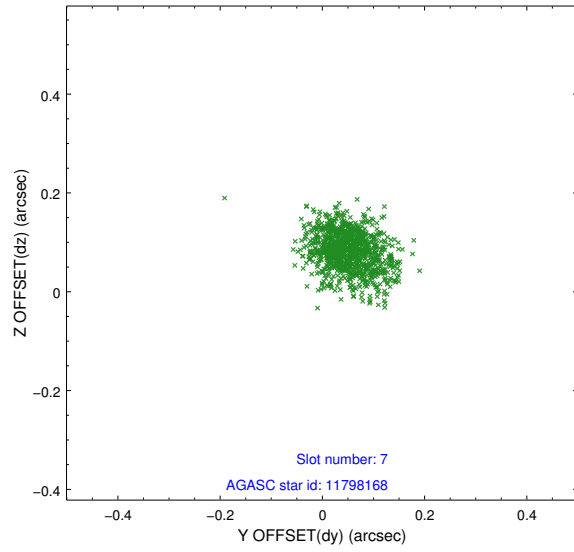
2.4.3 Slot 5



2.4.4 Slot 6

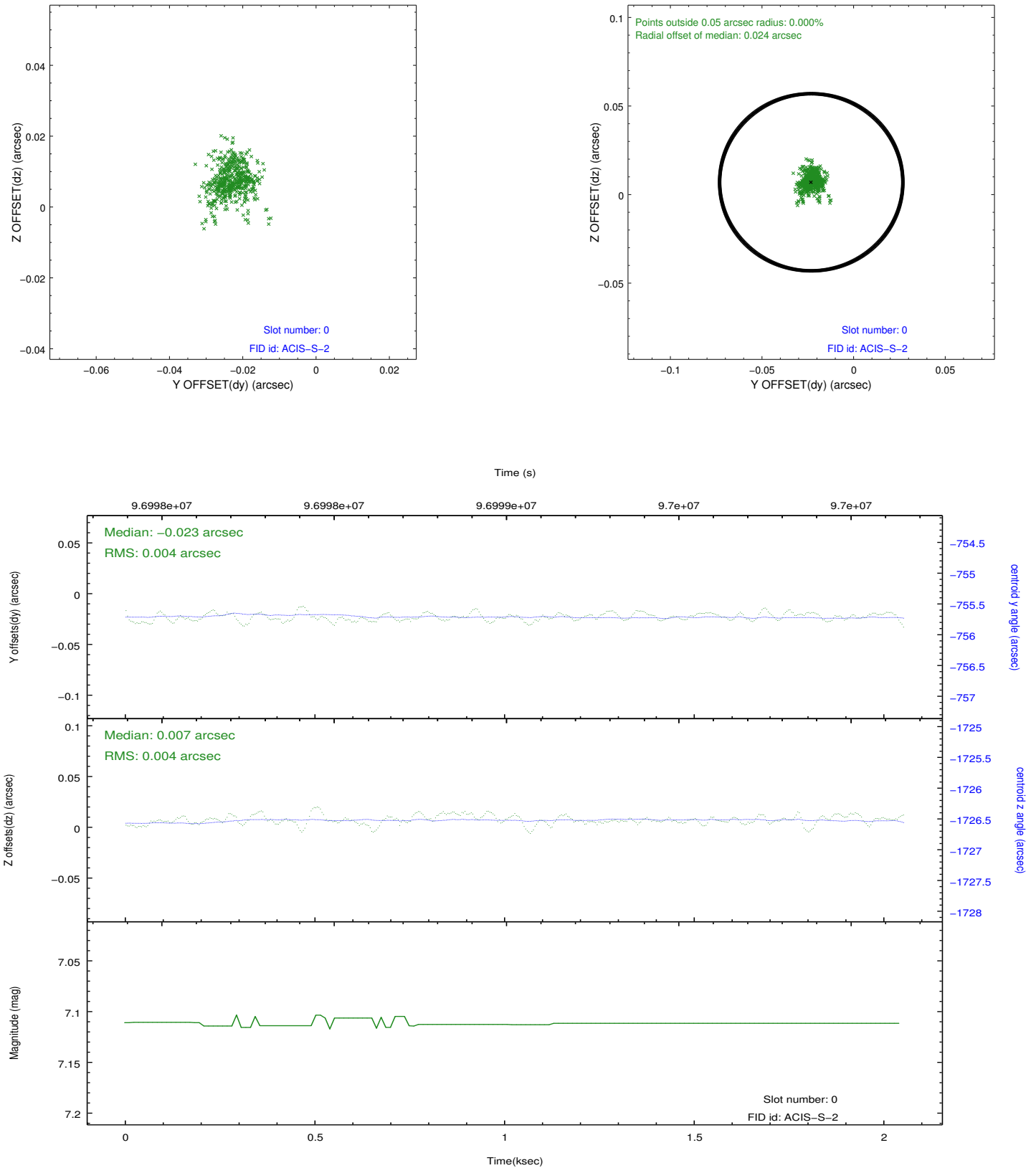


2.4.5 Slot 7

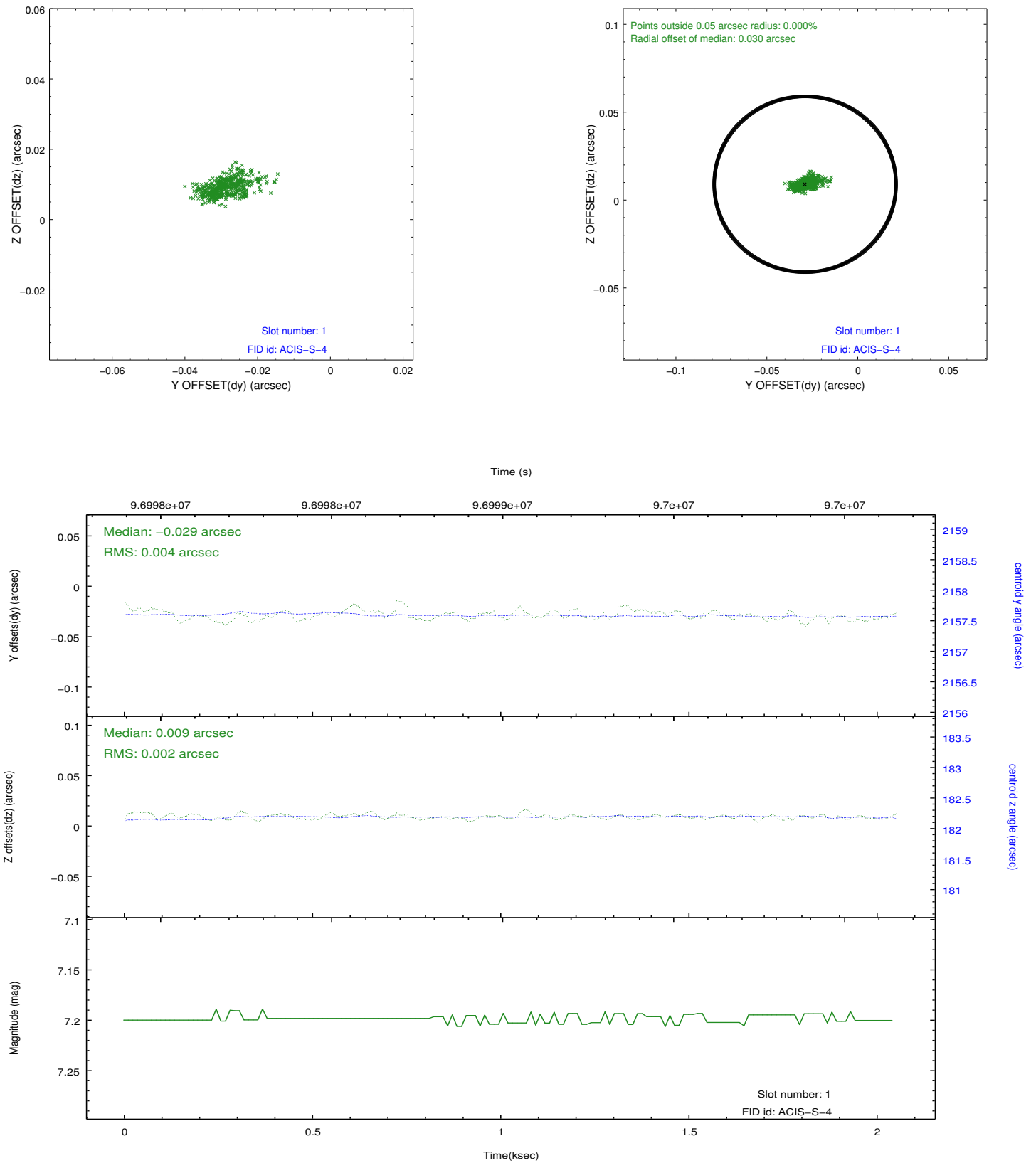


2.5 FID Slots

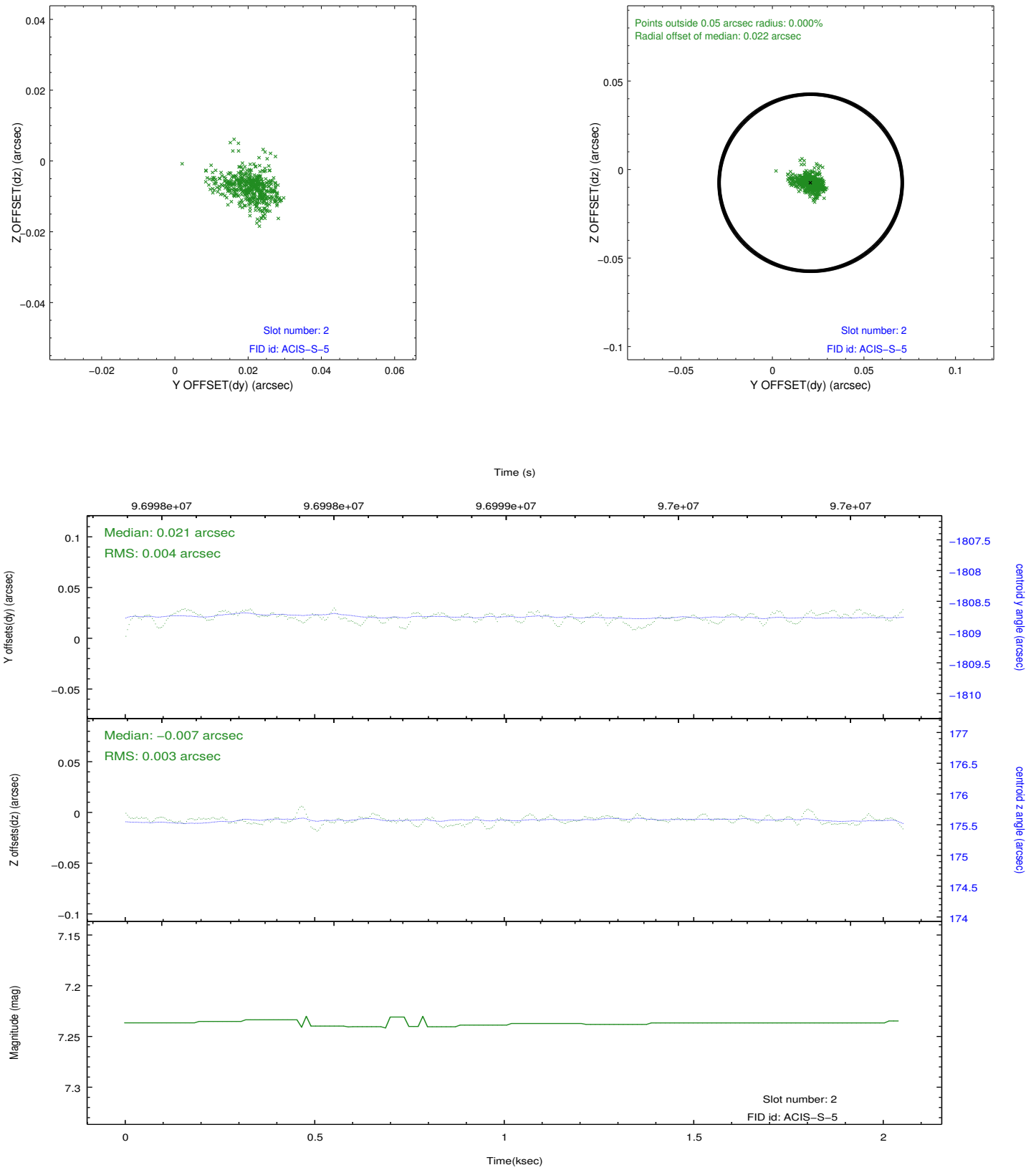
2.5.1 Slot 0



2.5.2 Slot 1



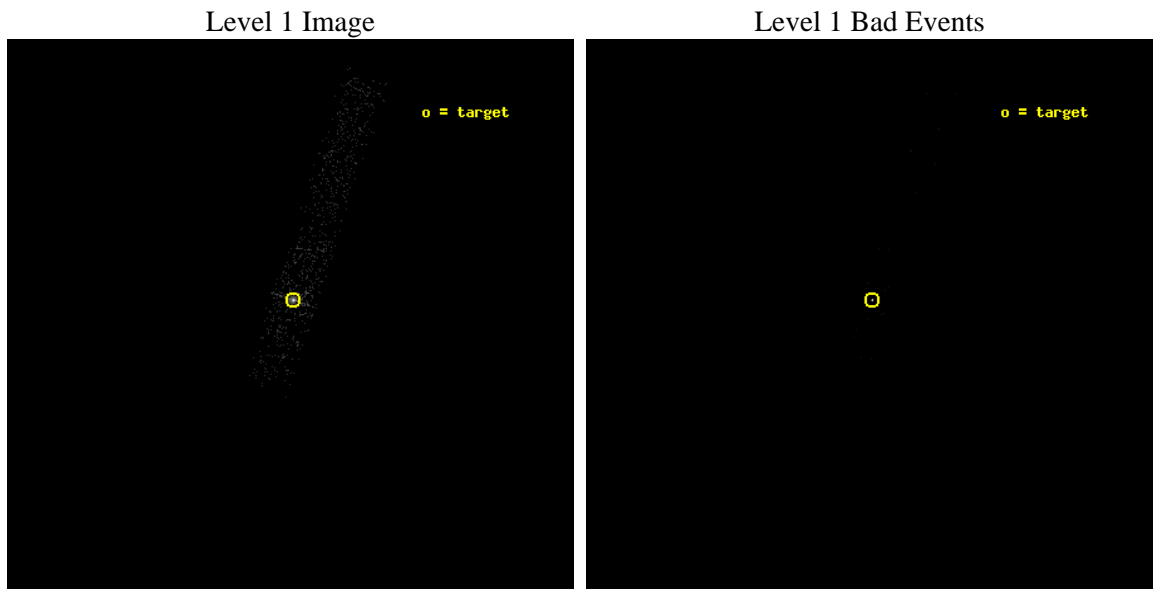
2.5.3 Slot 2



3 OBI Secondary

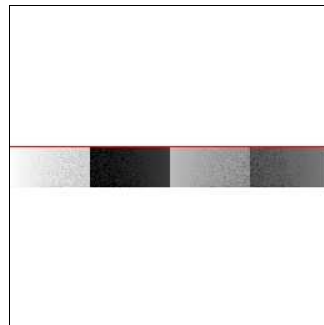
3.1 OBI

3.1.1 Images



3.1.2 Bias

Chip 7



3.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	1000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	771.34249809384	Sum of GTIs [s]
caldsver	4.5.1.1	 	ontime7	771.34249809384	Sum of GTIs [s]
date	2012-09-07T04:31:05	Date and time of file creation	l1events	3318	Number of level 1 events
revision	4	Processing version of data			

3.1.4 Events

	ccd 7
level 1 events	3318
rejected events	1465
rejected %	44%

	ccd 7
grade 0 events	275
	8%
grade 1 events	35
	1%
grade 2 events	402
	12%
grade 3 events	182
	5%
grade 4 events	184
	5%
grade 5 events	347
	10%
grade 6 events	812
	24%
grade 7 events	1081
	32%

A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.09.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.769

A.2 Comments