

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 11059 - L2 Version 2
Chandra X-Ray Center

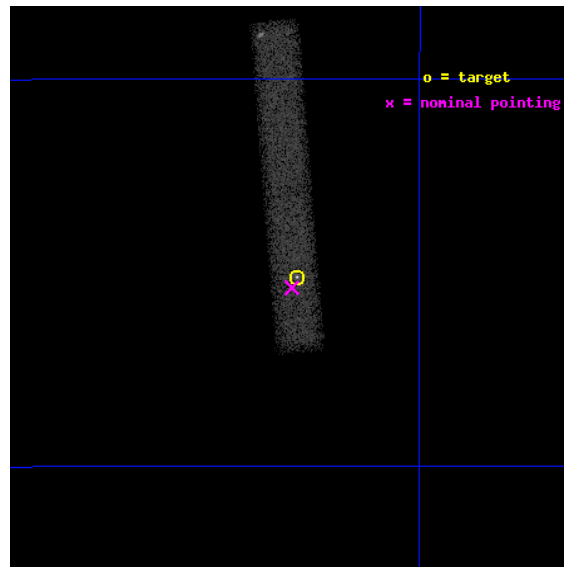
L2 Processing Date : Jun 24 2012

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

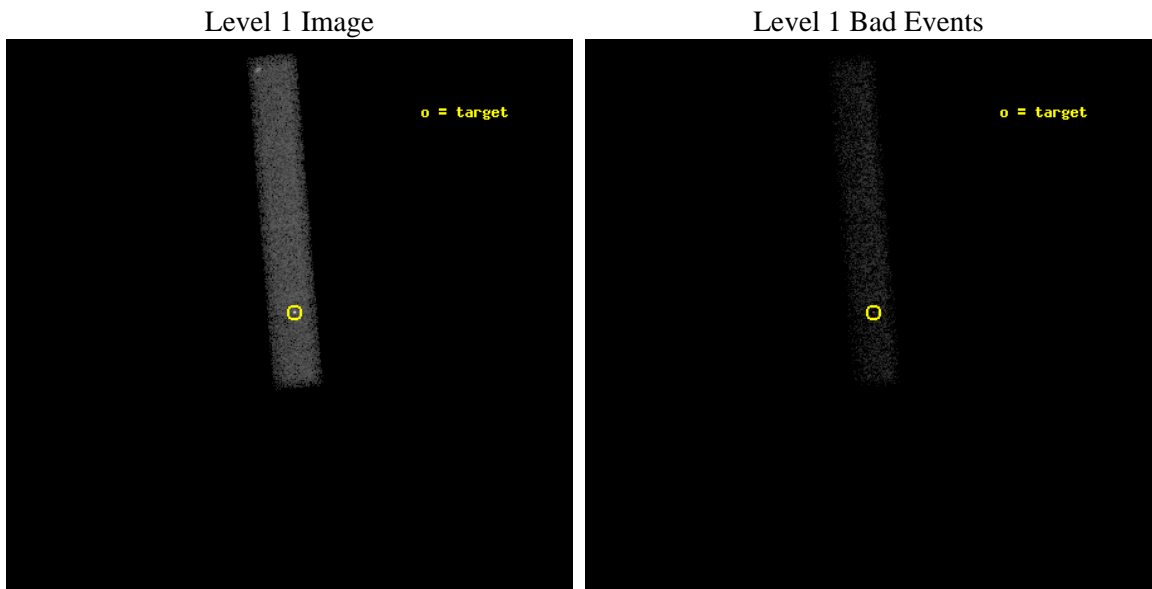
seq_num	401094	Sequence number
obs_id	11059	Observation id
title	Crustal cooling of the neutron star in EXO 0748-676	Proposal title
observer	Dr Nathalie Degenaar	Principal investigator
object	EXO 0748-676	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	117.140833	Observer's specified target RA [deg]
dec_targ	-67.752389	Observer's specified target Dec [deg]
ra_nom	117.14665490285	Nominal RA [deg]
dec_nom	-67.756717829203	Nominal Dec [deg]
roll_nom	265.31326248856	Nominal Roll [deg]
revision	2	Processing version of data
ontime	30179.19820118	Sum of GTIs [s]
livetime	27370.939779775	Livetime [s]
ontime7	30179.19820118	Sum of GTIs [s]
l2events	22386	Number of level 2 events



2 OBI

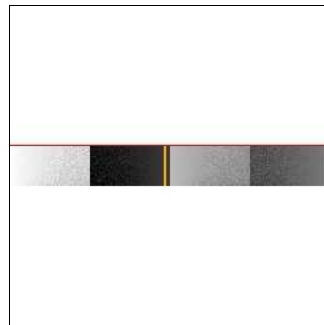
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	30000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	30179.19820118	Sum of GTIs [s]
caldsver	4.4.10	 	ontime7	30179.19820118	Sum of GTIs [s]
date	2012-06-24T10:26:35	Date and time of file creation	l1events	42446	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

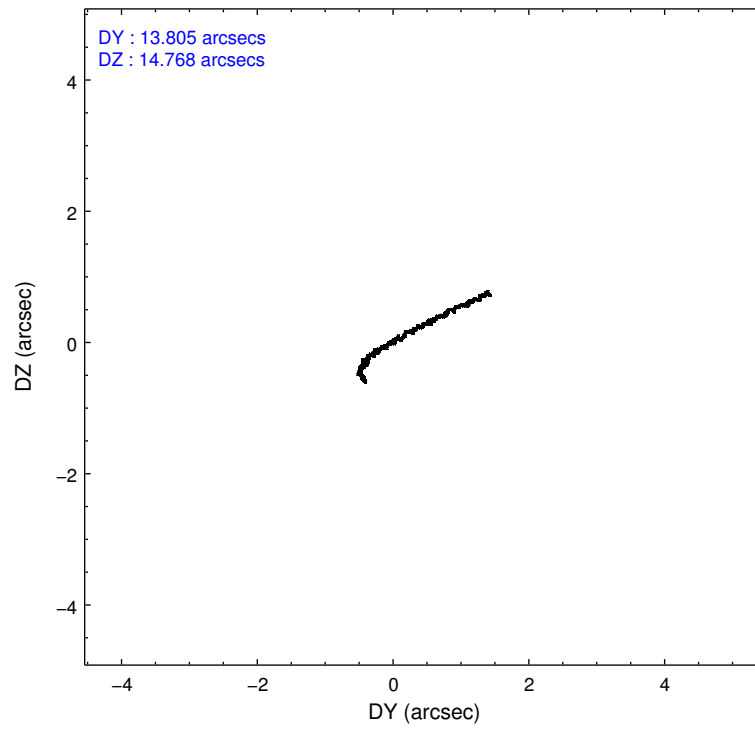
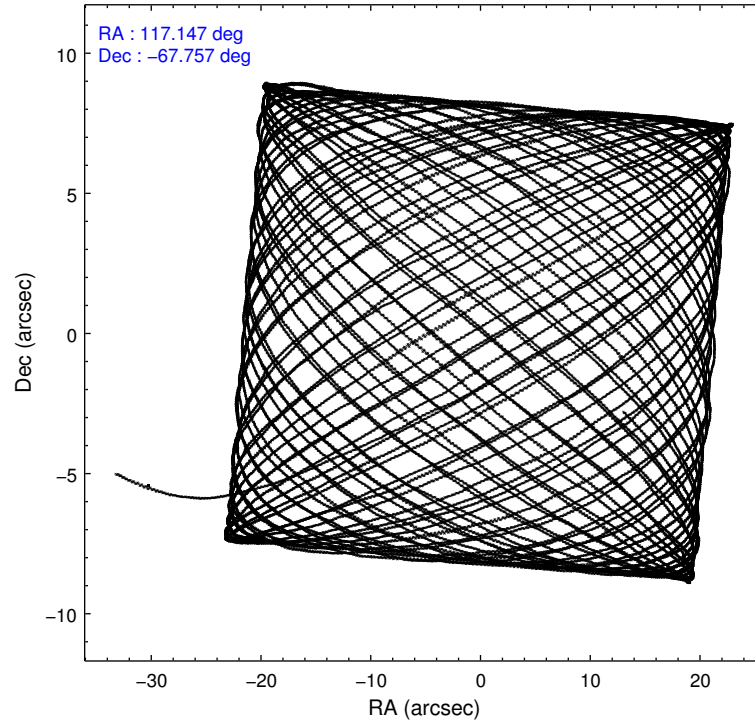
	ccd 7
level 1 events	42446
rejected events	19151
rejected %	45%

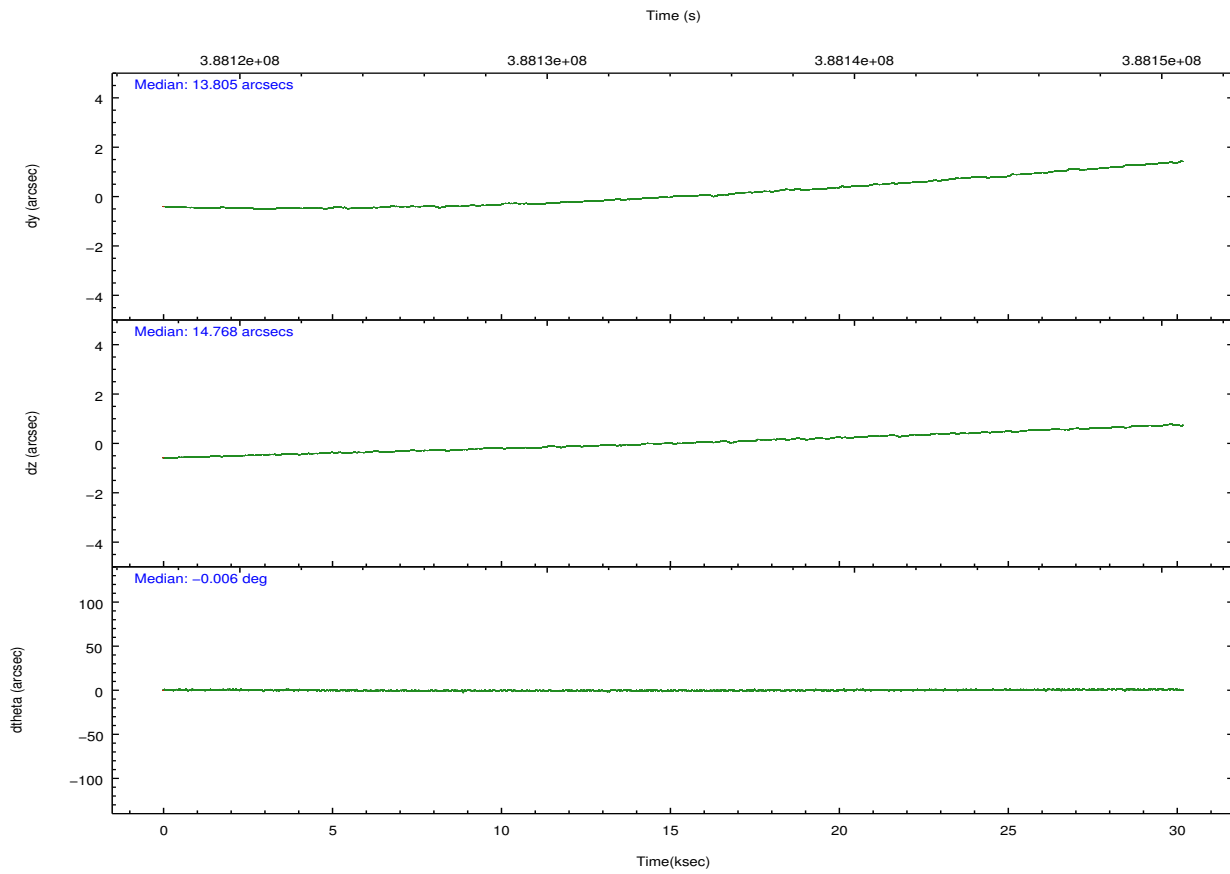
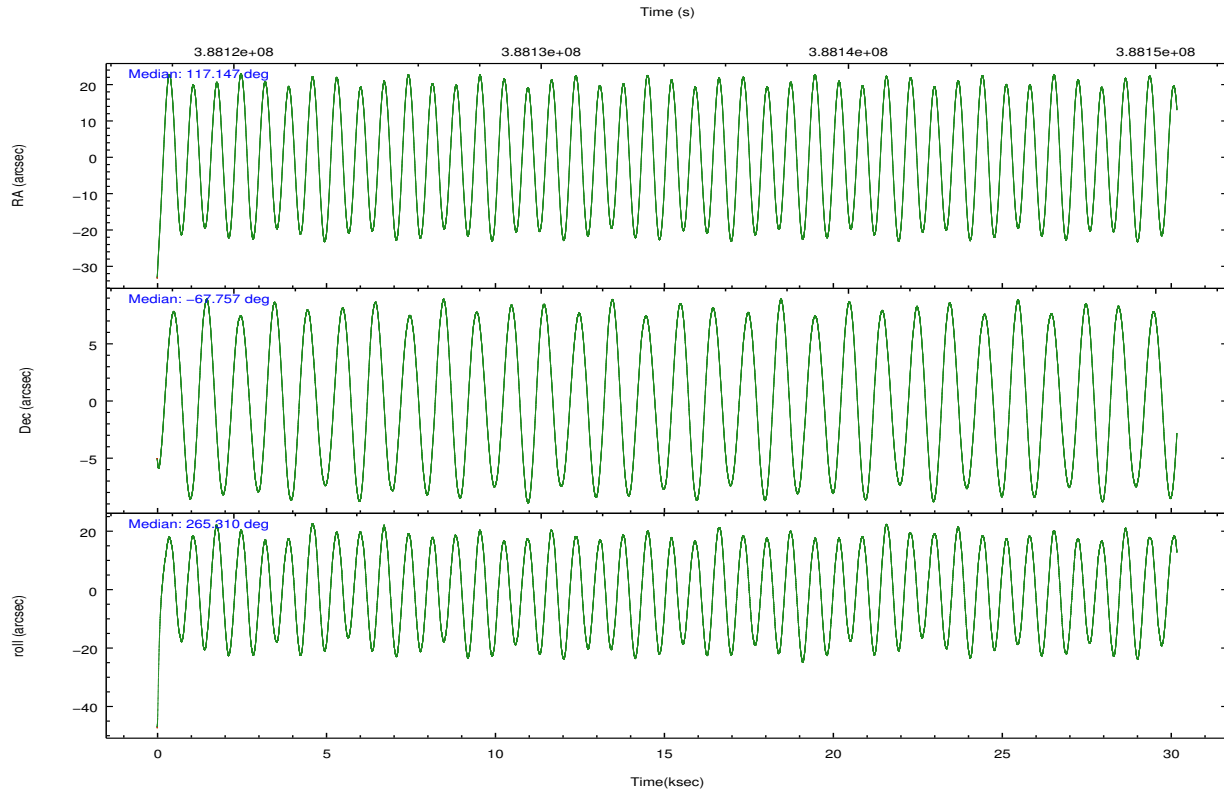
	ccd 7
grade 0 events	3426
	8%
grade 1 events	62
	0%
grade 2 events	4853
	11%
grade 3 events	3156
	7%
grade 4 events	3053
	7%
grade 5 events	3879
	9%
grade 6 events	9026
	21%
grade 7 events	14991
	35%

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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	117.114907	117.146654902849	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-67.732141	-67.7567178292034	Subarray start row	449	449
[deg] Pointing Roll	265.127258	265.3132624885593	Subarray row count	128	128
[s] Window start time (MET)	386510466.184000	386510466.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	391780866.184000	391780866.184000	[s] Primary exposure time	0.000000	0.4
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	388119176.184000	388118262.02721			
Observation start date	2010-04-20T02:51:50	2010-04-20T02:37:42			
[s] Observation end time (MET)	388149176.184000	388150080.07883			
Observation end date	2010-04-20T11:11:50	2010-04-20T11:28:00			
Read mode	TIMED	TIMED			

2.3 Aspect



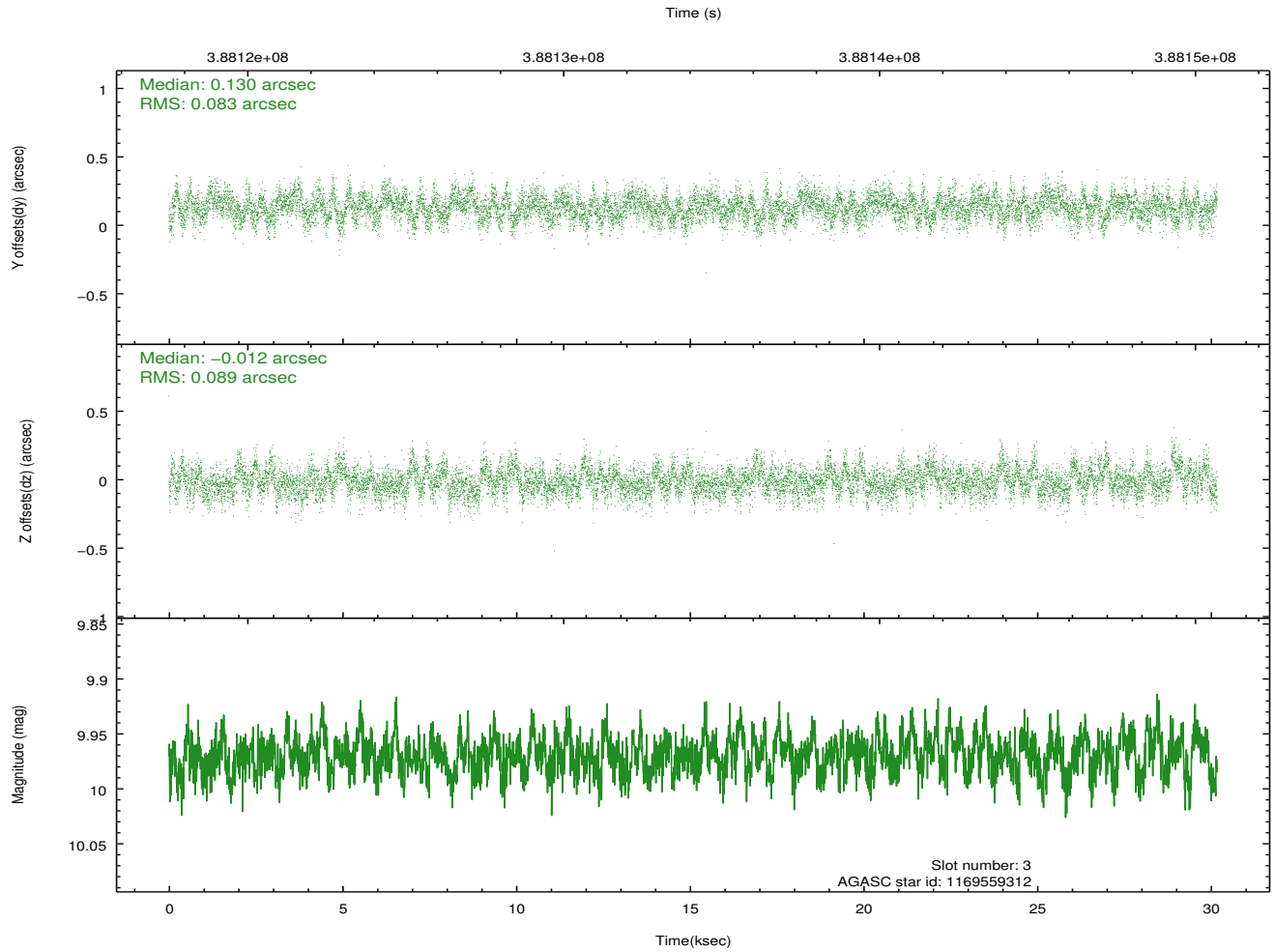
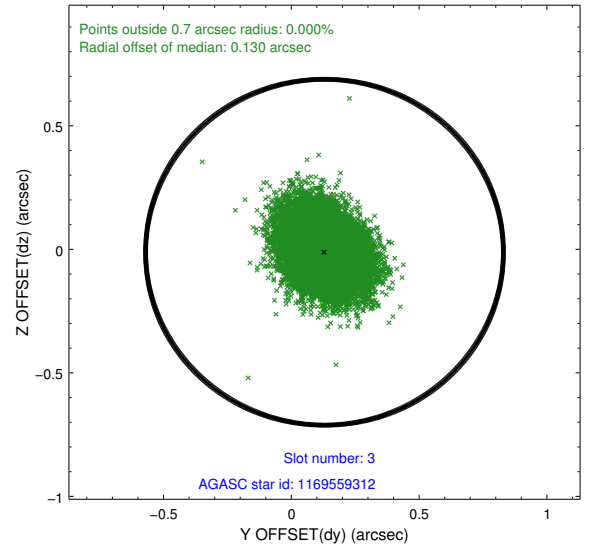
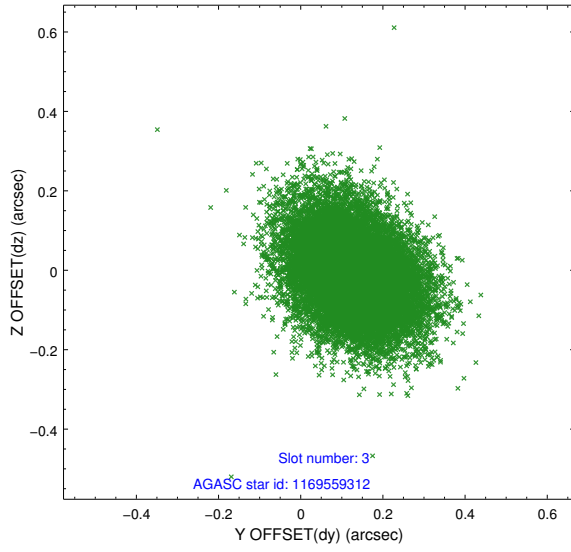


Slot Statistics

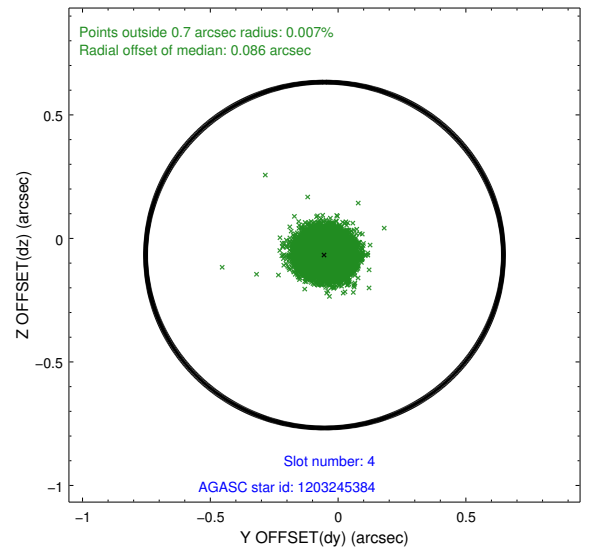
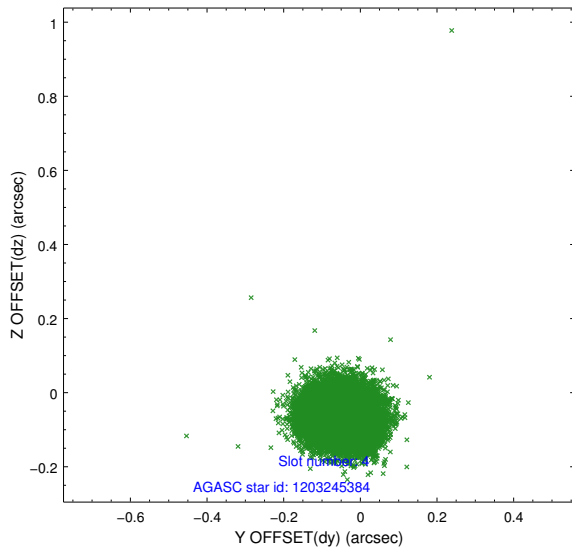
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.04	7362	0.071	-0.038	0.014	0.035	0.000000	0.000000	929.23	-1731.84
1	FID	ACIS-S-5	7.07	7361	-0.164	0.036	0.012	0.017	0.000000	0.000000	-1819.98	165.69
2	FID	ACIS-S-6	7.19	7362	0.073	0.015	0.024	0.040	0.000000	0.000000	394.68	809.73
3	GUIDE	1169559312	9.97	14699	0.130	-0.012	0.130	0.213	117.264973	-67.339053	-1426.47	87.01
4	GUIDE	1203245384	8.56	14717	-0.053	-0.067	0.070	0.113	117.096059	-68.354351	2234.02	165.46
5	GUIDE	1203258824	9.87	14645	-0.130	0.041	0.148	0.238	118.613315	-67.511932	-940.18	1990.46
6	GUIDE	1169556880	8.94	14720	0.038	0.029	0.110	0.171	118.476472	-67.455164	-1132.63	1789.85
7	GUIDE	1203248984	9.65	14693	0.015	0.012	0.123	0.196	117.212023	-68.341440	2174.62	315.72

2.4 Star Slots

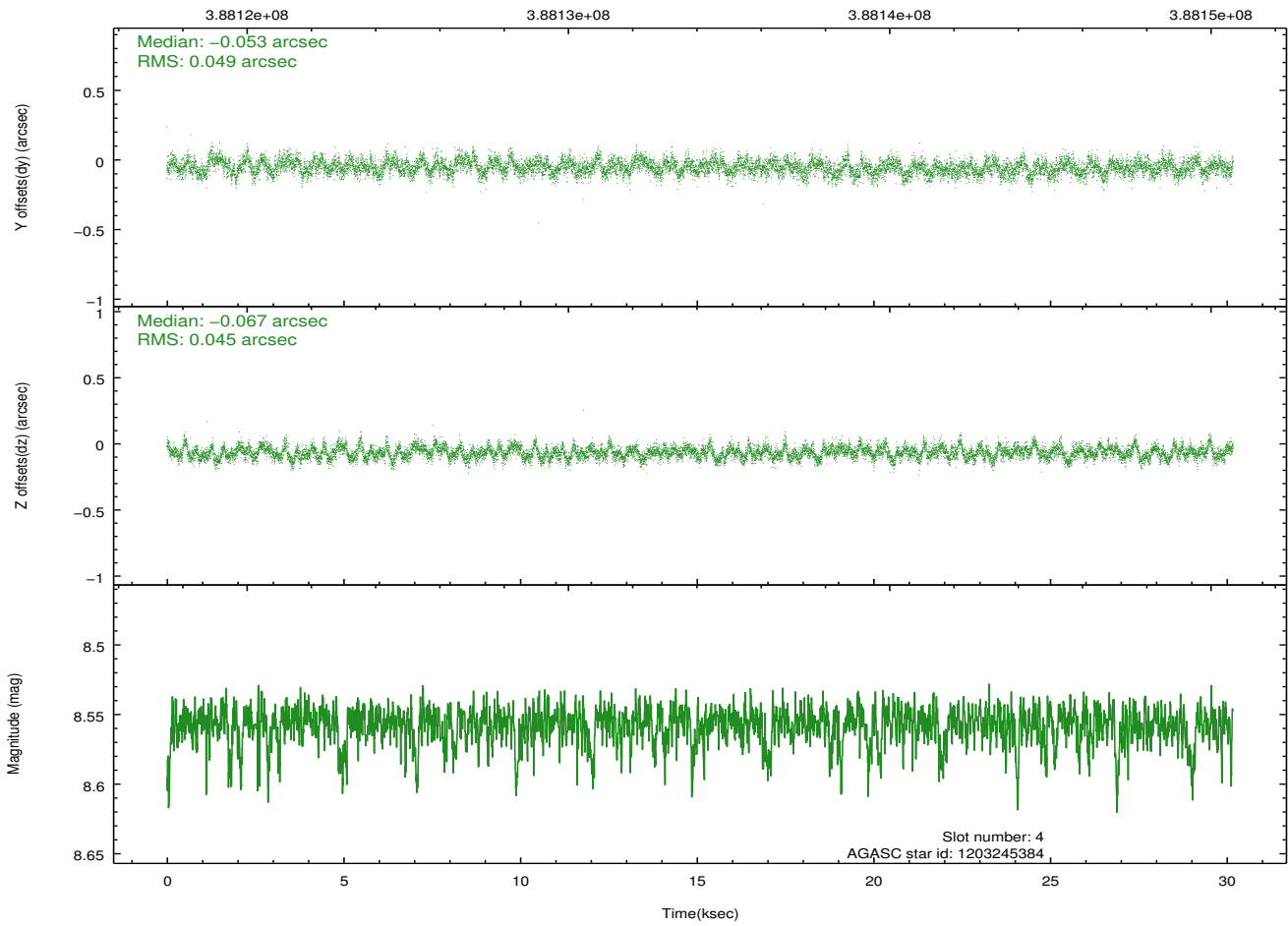
2.4.1 Slot 3



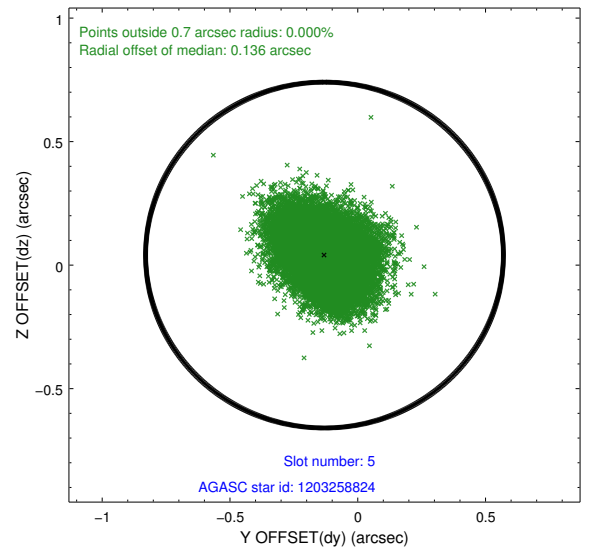
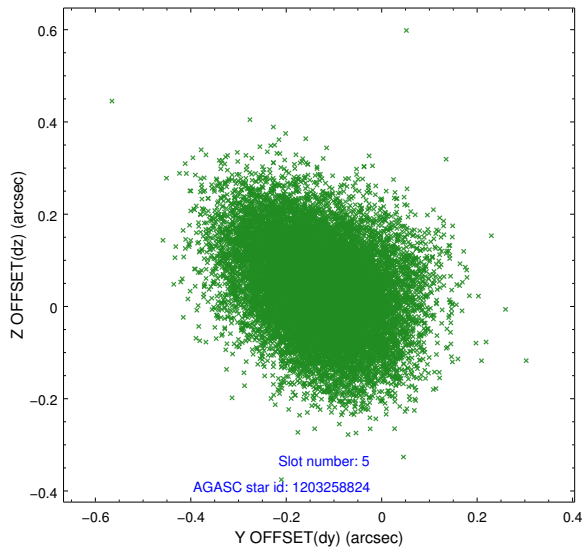
2.4.2 Slot 4



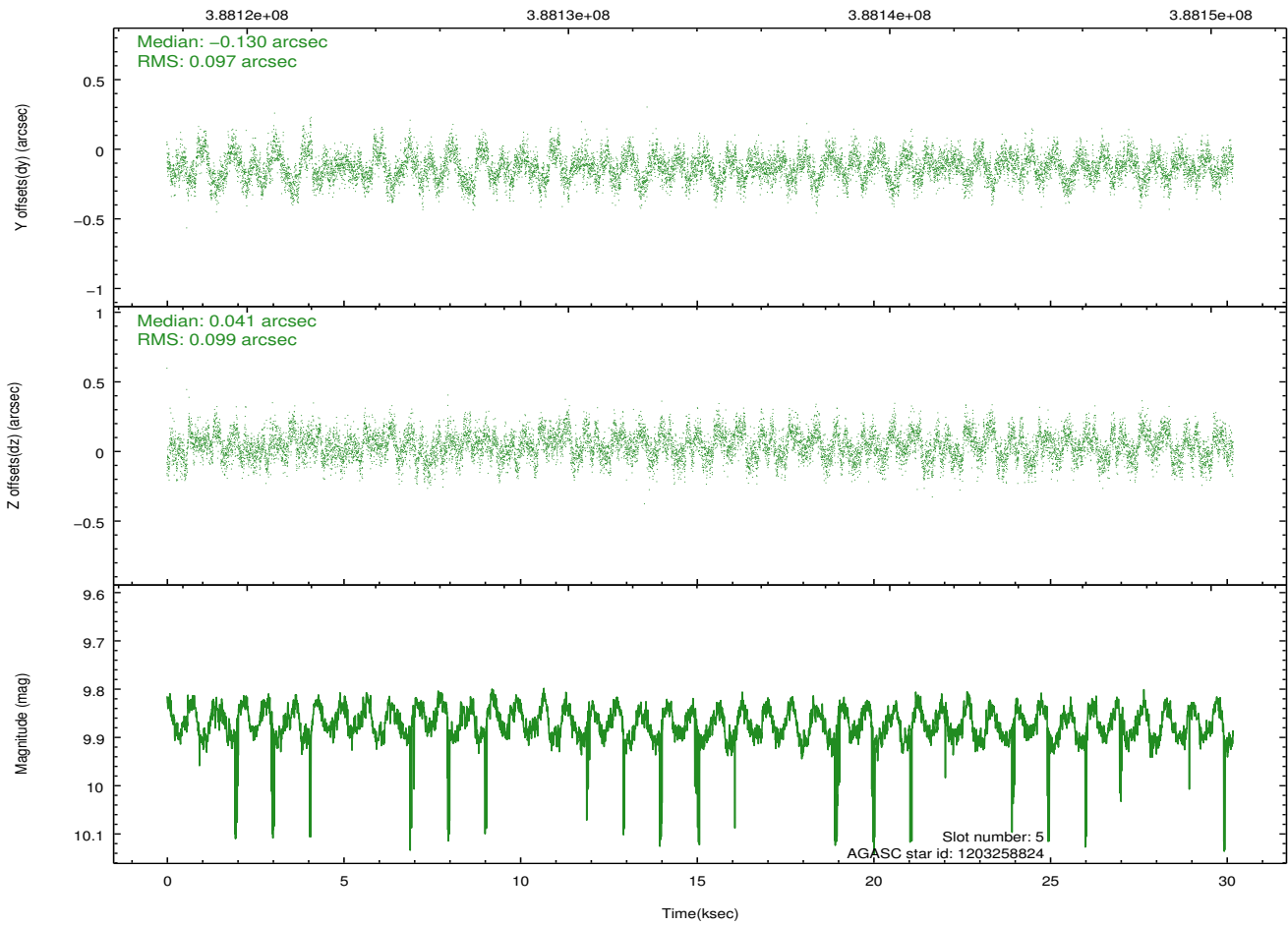
Time (s)



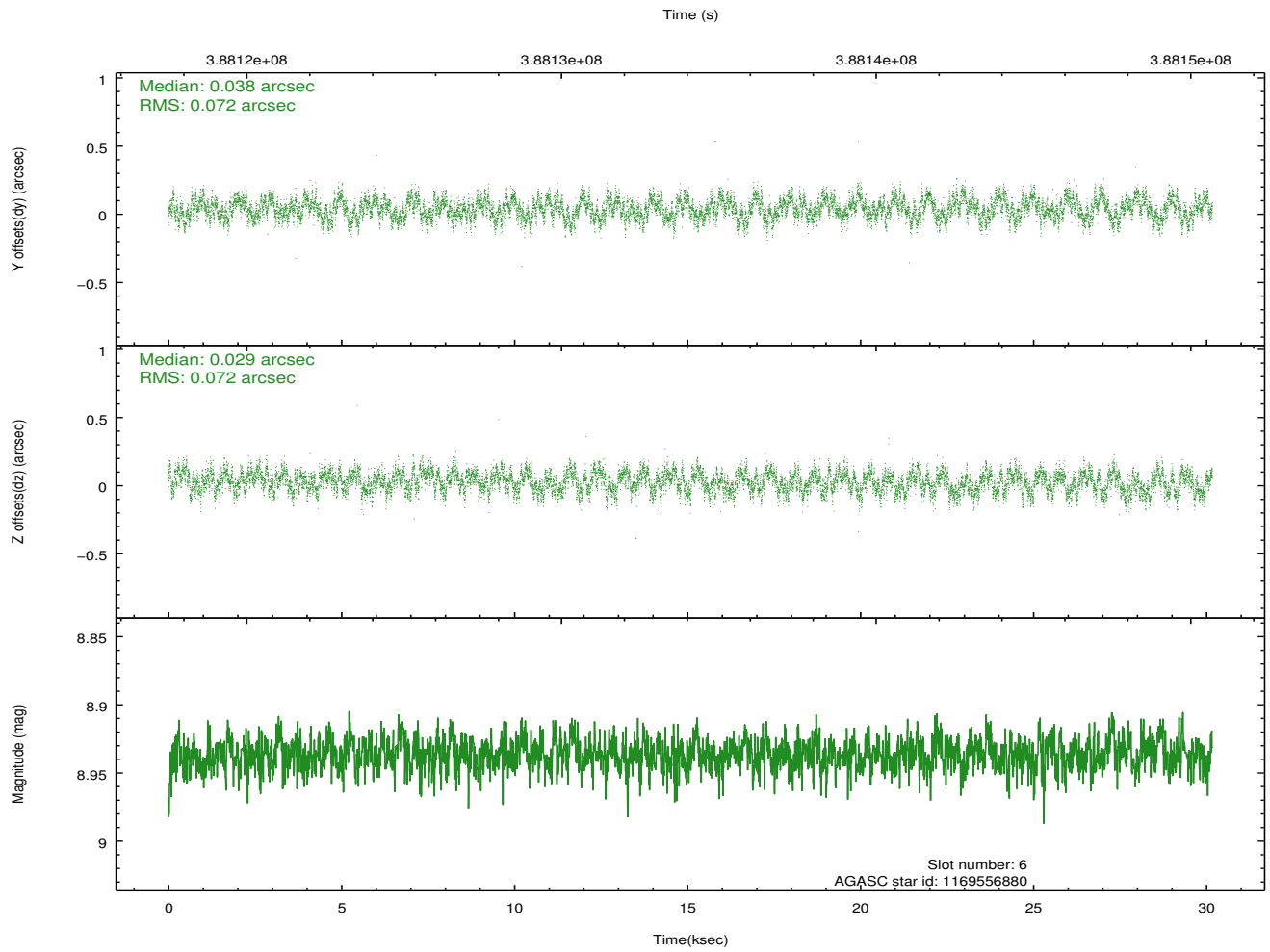
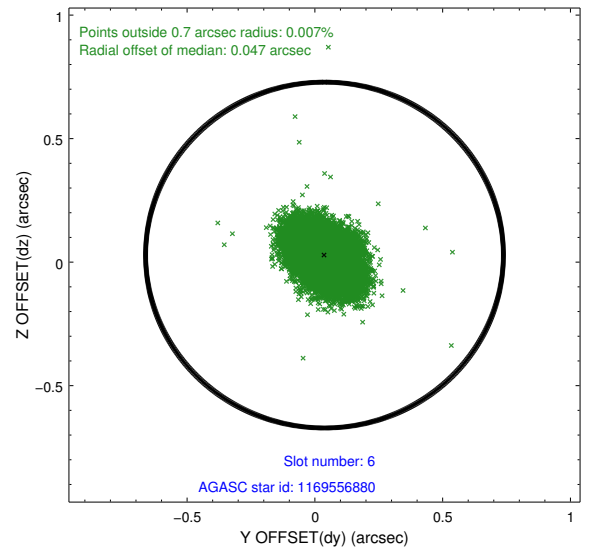
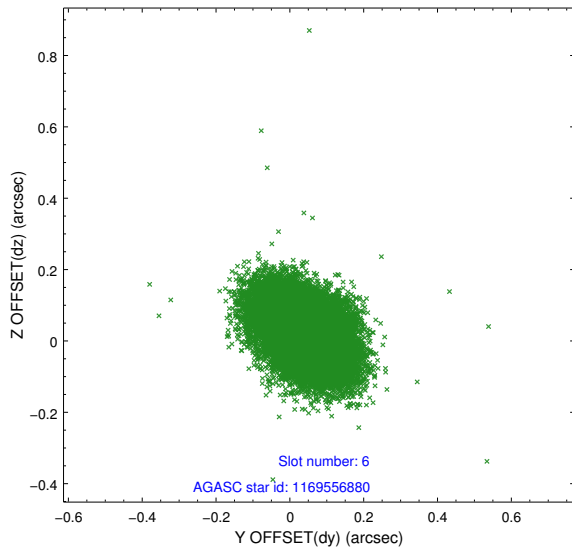
2.4.3 Slot 5



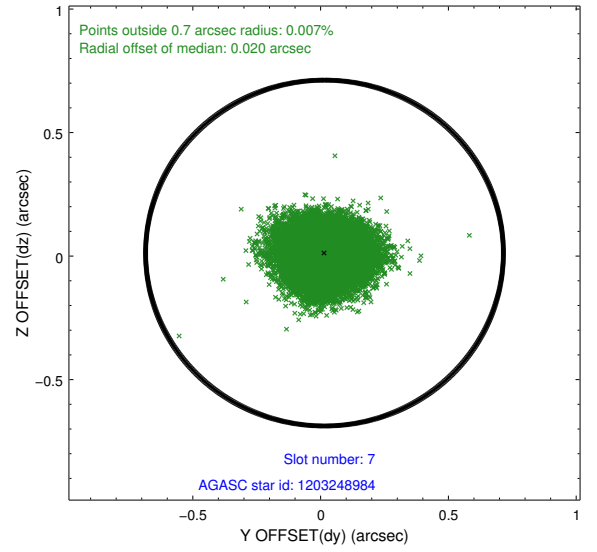
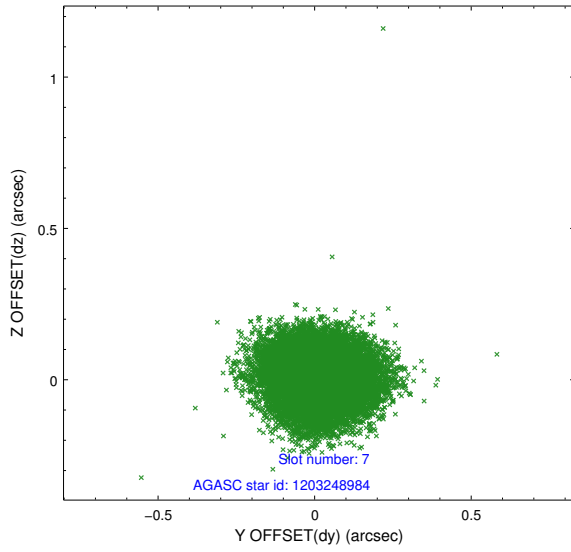
Time (s)



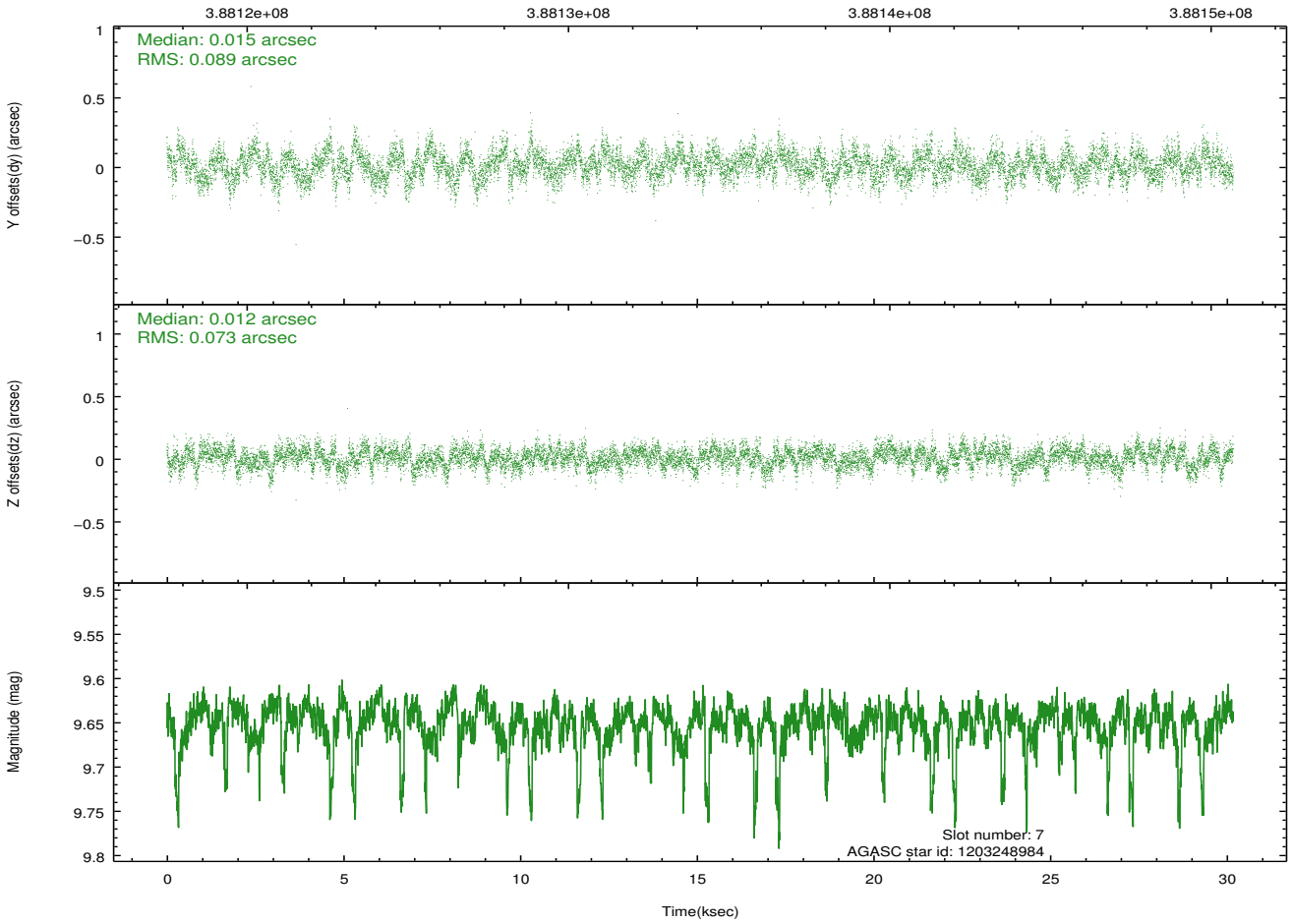
2.4.4 Slot 6



2.4.5 Slot 7

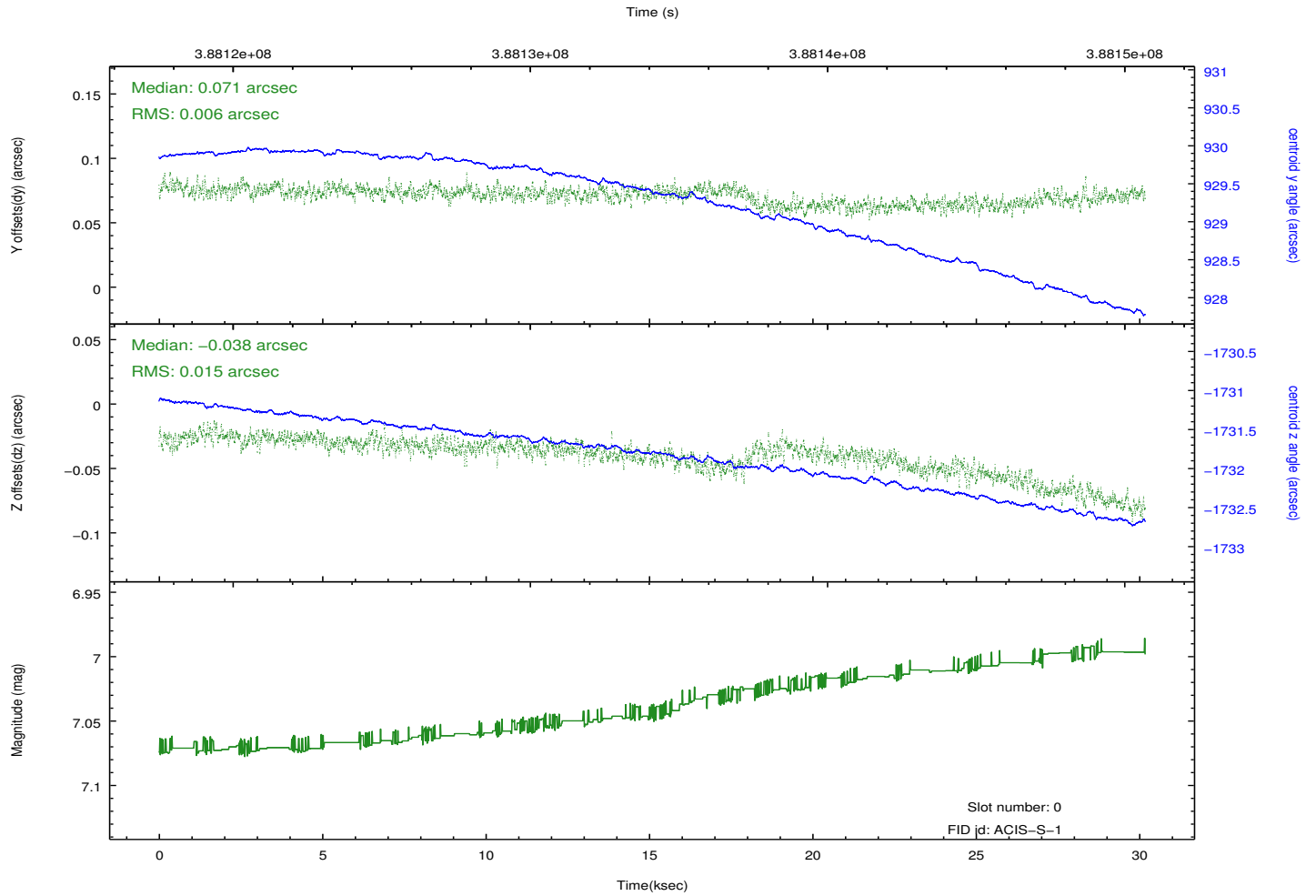
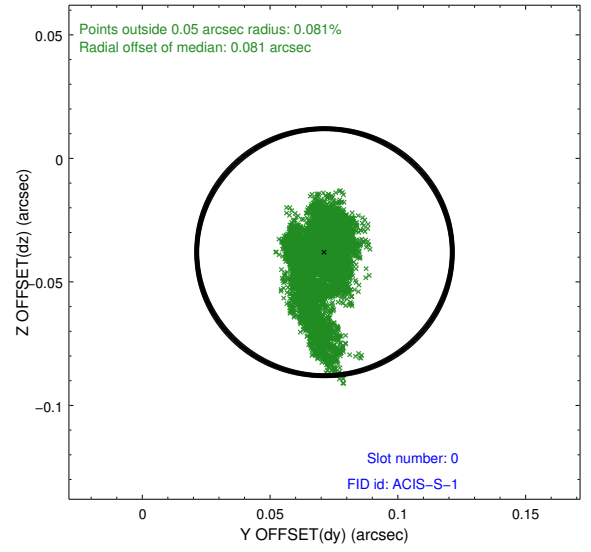
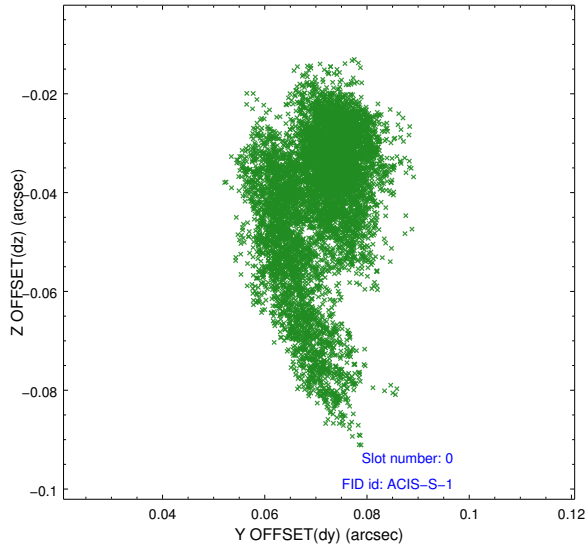


Time (s)

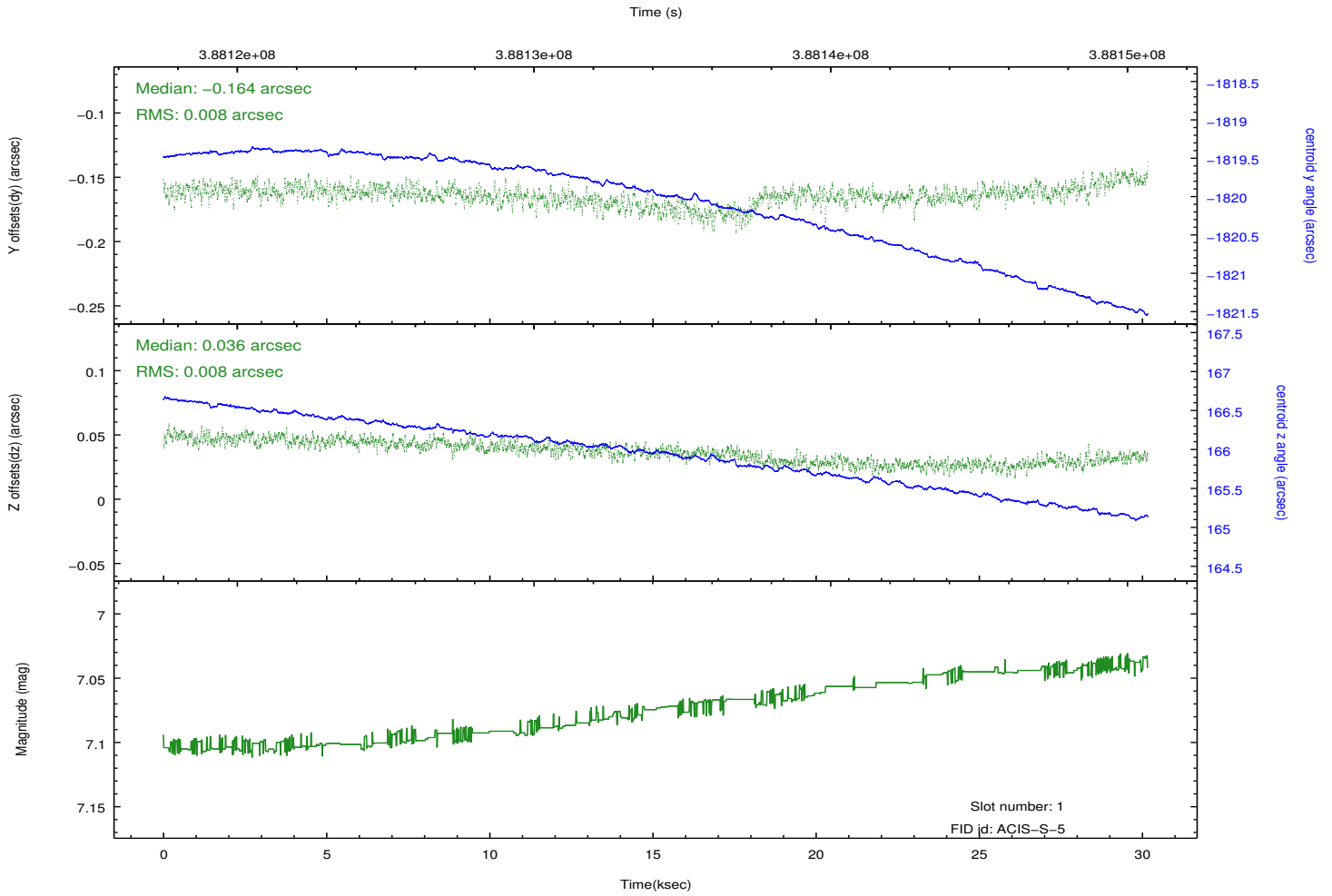
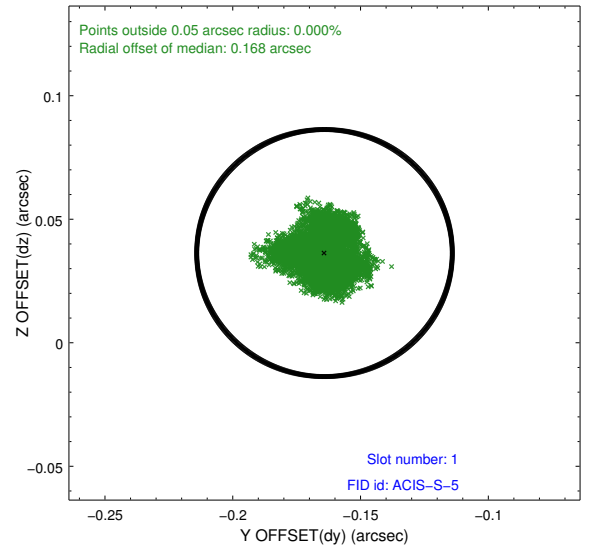
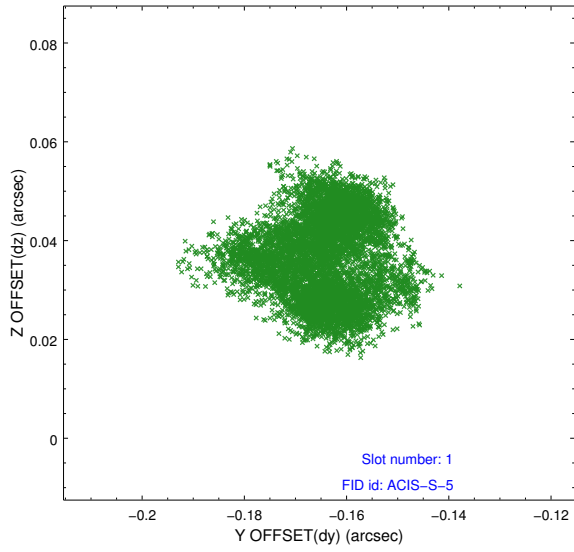


2.5 FID Slots

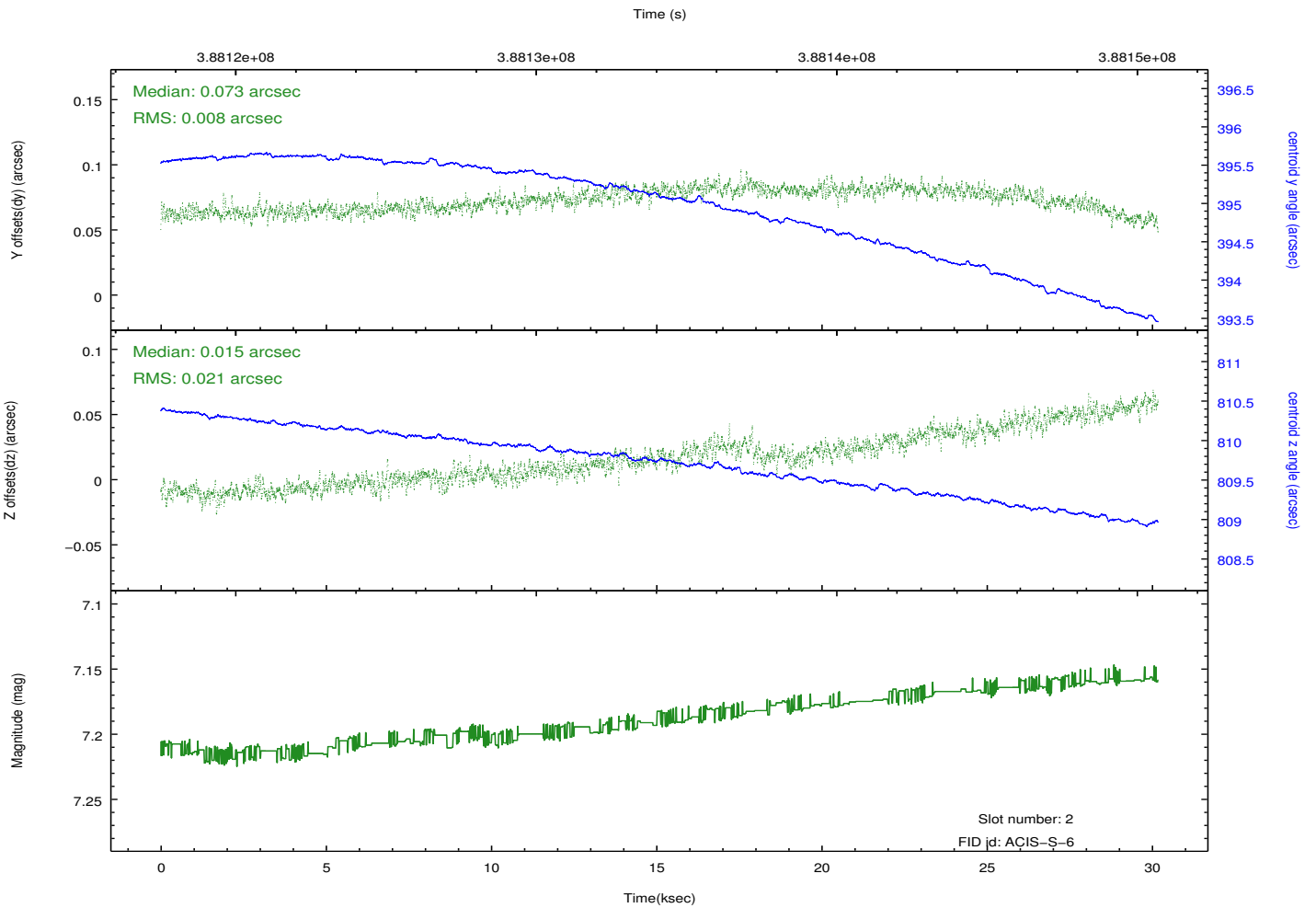
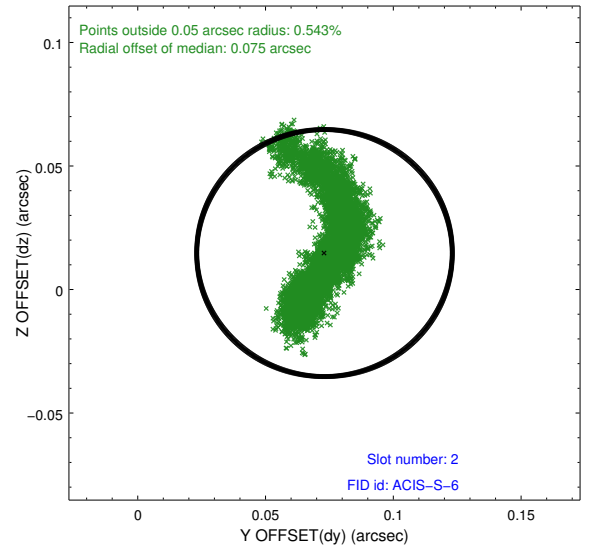
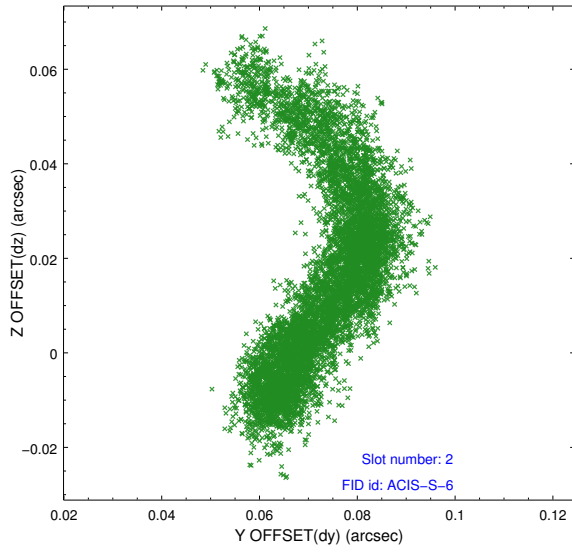
2.5.1 Slot 0



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)	2012.07.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.17919820118

A.2 Comments