

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 18892 - L2 Version 1
Chandra X-Ray Center

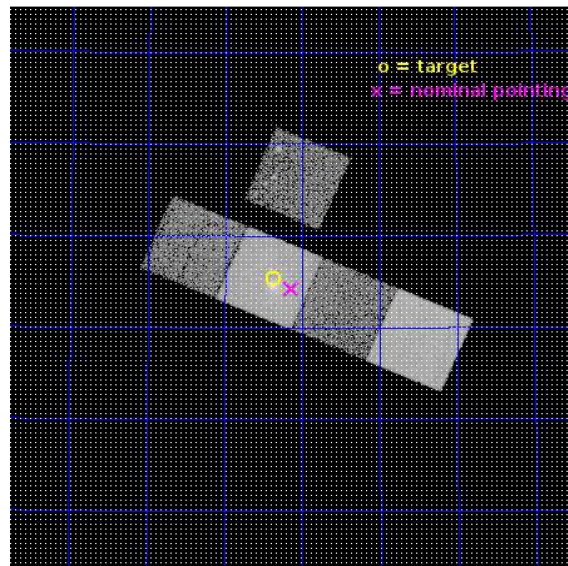
L2 Processing Date : Jun 24 2017

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

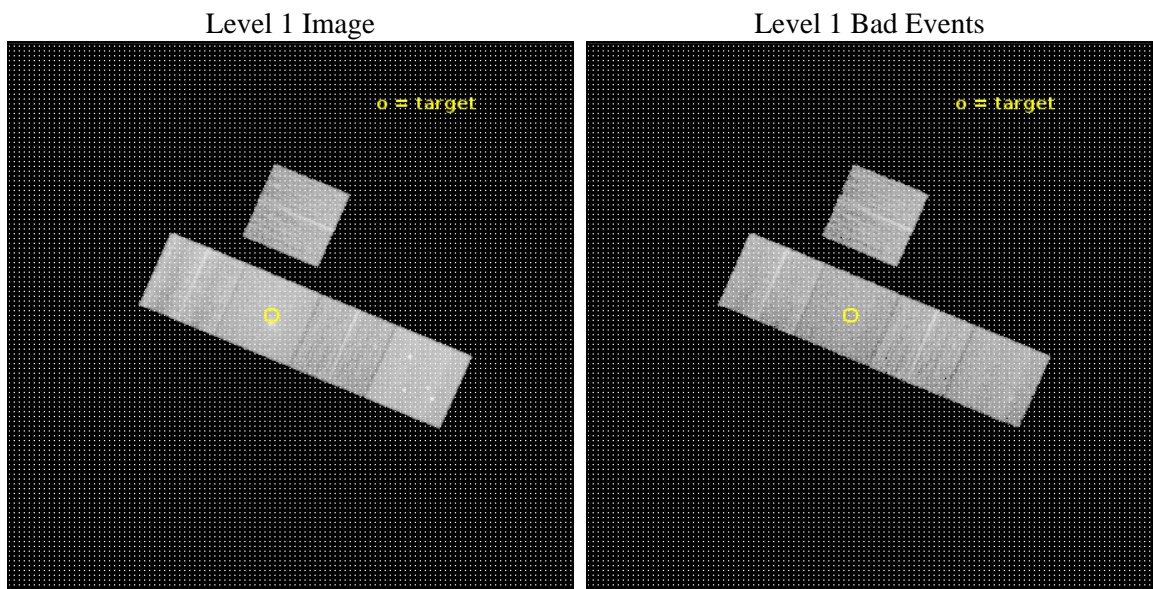
seq_num	801656	Sequence number
obs_id	18892	Observation id
title	Cavities, shocks and stripping in a high-velocity group-group merger: NGC 6338	Proposal title
observer	Ewan O'Sullivan	Principal investigator
object	NGC 6338	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	258.844583	Observer's specified target RA [deg]
dec_targ	57.422139	Observer's specified target Dec [deg]
ra_nom	258.78503032796	Nominal RA [deg]
dec_nom	57.404124375872	Nominal Dec [deg]
roll_nom	203.20679832875	Nominal Roll [deg]
revision	1	Processing version of data
ontime	12052.685815811	Sum of GTIs [s]
livetime	11895.208602569	Livetime [s]
ontime3	12052.562695861	Sum of GTIs [s]
ontime5	12052.644775867	Sum of GTIs [s]
ontime6	12052.603735805	Sum of GTIs [s]
ontime7	12052.685815811	Sum of GTIs [s]
ontime8	12049.38070488	Sum of GTIs [s]
l2events	154004	Number of level 2 events



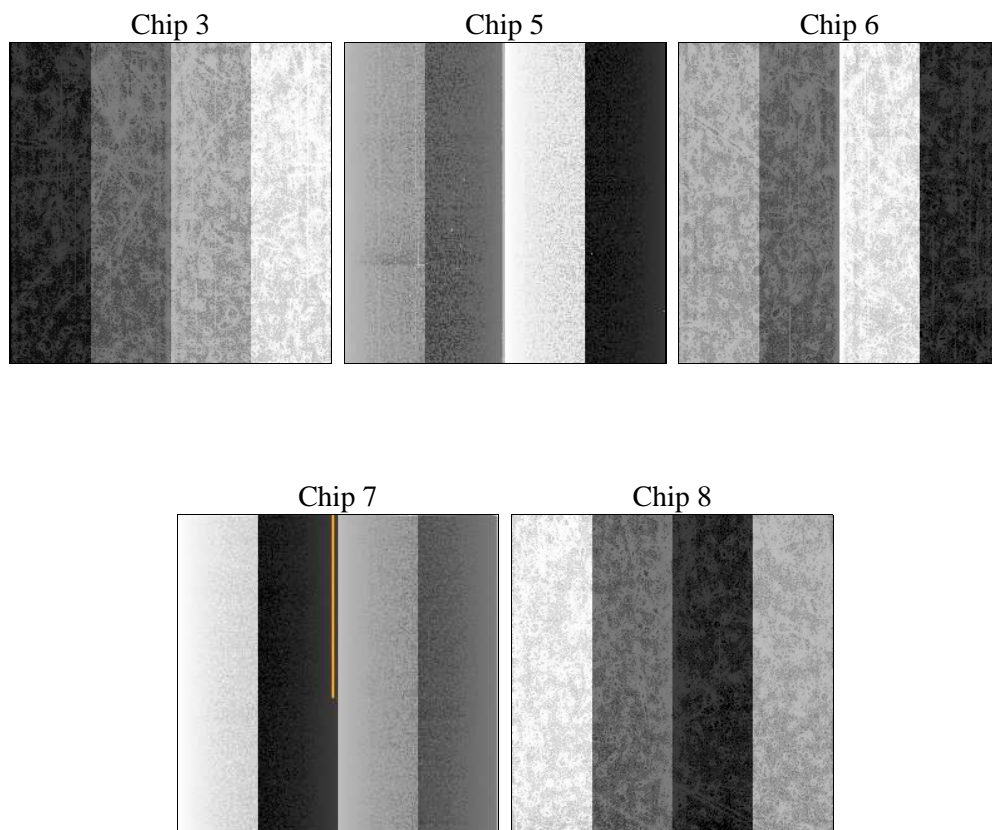
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	12000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	12052.685815811	Sum of GTIs [s]
caldsver	4.7.5	 	ontime3	12052.562695861	Sum of GTIs [s]
date	2017-06-24T21:37:41	Date and time of file creation	ontime5	12052.644775867	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	12052.603735805	Sum of GTIs [s]
			ontime7	12052.685815811	Sum of GTIs [s]
			ontime8	12049.38070488	Sum of GTIs [s]
			l1events	560148	Number of level 1 events

2.1.4 Events

	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	85982	139544	89969	125694	118959
rejected events	76285	71567	78692	63682	85844
rejected %	88%	51%	87%	50%	72%

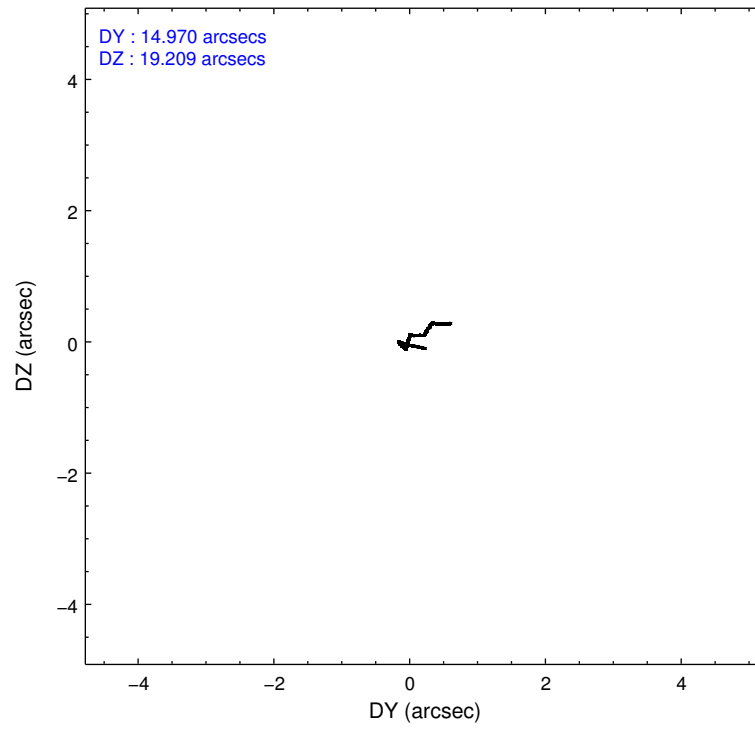
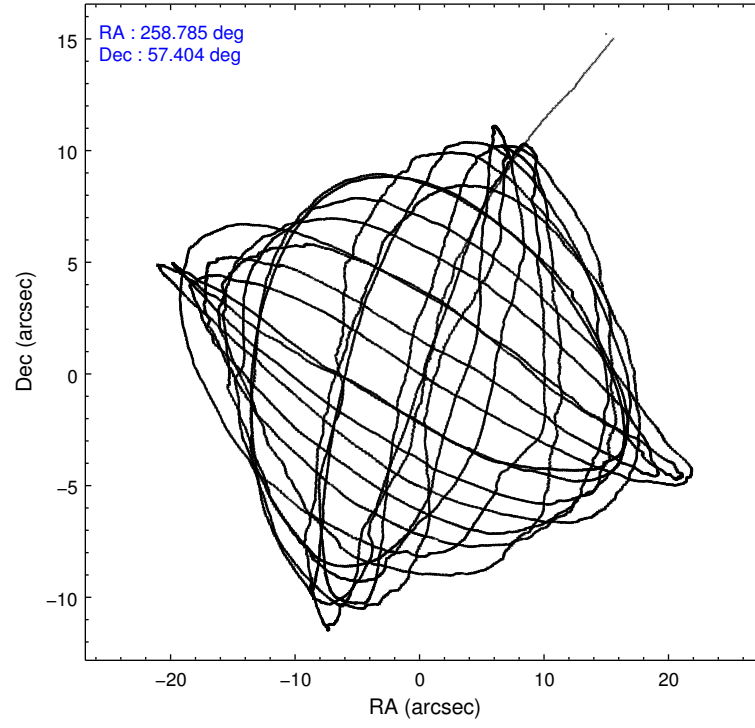
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	3787	6327	4309	7804	9881
	4%	4%	4%	6%	8%
grade 1 events	69	402	52	168	92
	0%	0%	0%	0%	0%
grade 2 events	1984	21096	2565	13852	7728
	2%	15%	2%	11%	6%
grade 3 events	1010	2001	951	5432	3520
	1%	1%	1%	4%	2%
grade 4 events	1010	1929	1033	5326	3199
	1%	1%	1%	4%	2%
grade 5 events	4090	9425	3937	10967	5957
	4%	6%	4%	8%	5%
grade 6 events	1908	36657	2425	29633	8804
	2%	26%	2%	23%	7%
grade 7 events	72124	61707	74697	52512	79778
	83%	44%	83%	41%	67%

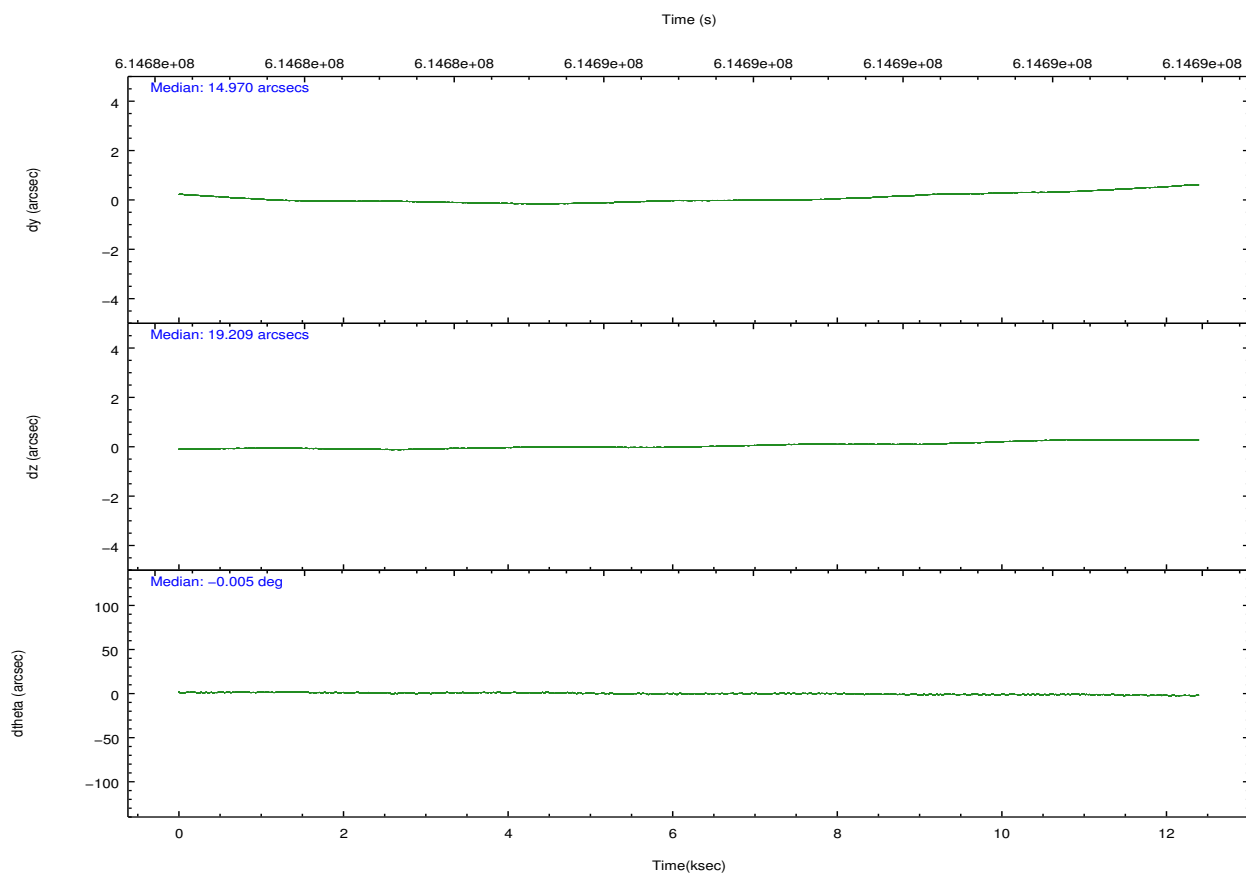
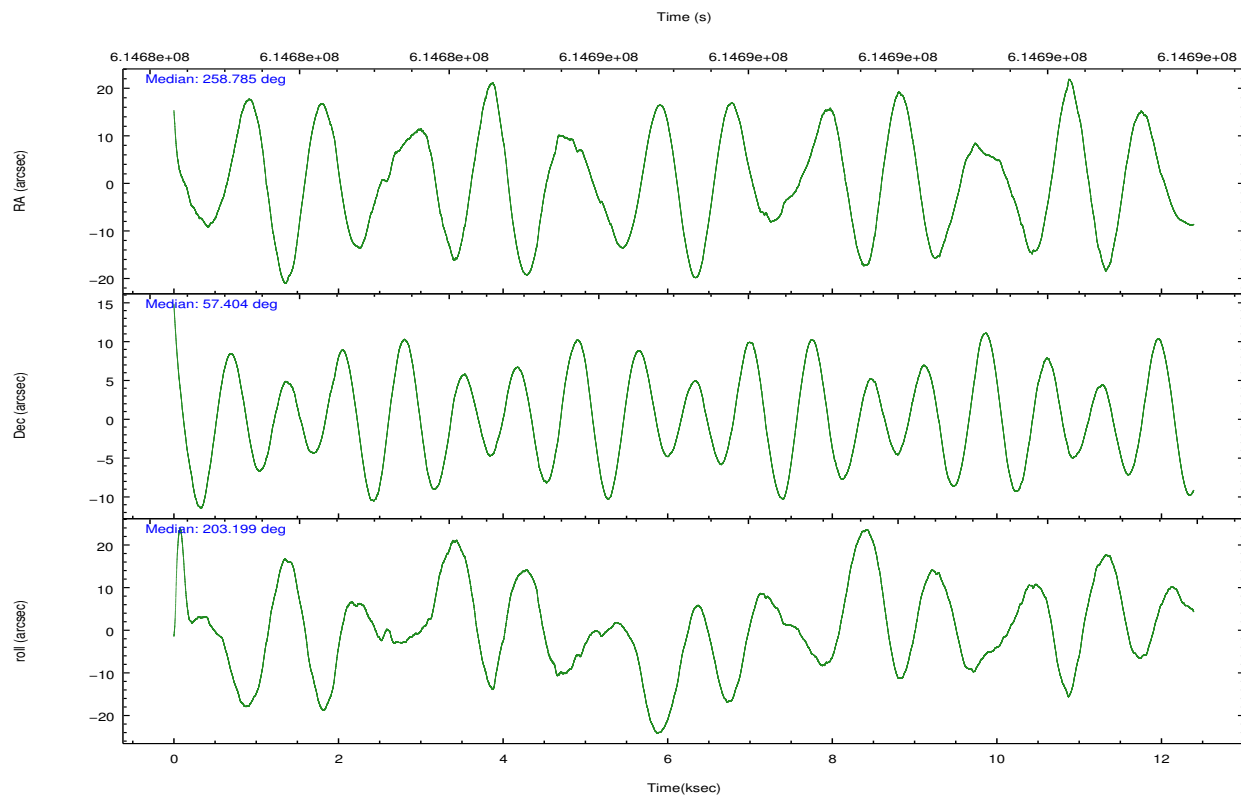
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-35678	ACIS-35678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	258.815052	258.7850303279616
[deg] Pointing Dec	57.426342	57.40412437587204
[deg] Pointing Roll	203.024879	203.2067983287482
[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)	614681351.184000	614680299.0878201
Observation start date	2017-06-24T08:48:02	2017-06-24T08:31:39
[s] Observation end time (MET)	614693351.184000	614694154.5261199
Observation end date	2017-06-24T12:08:02	2017-06-24T12:22:34
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	N	N
CCD I3 on	O1	Y
CCD S0 on	N	N
CCD S1 on	Y	Y
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



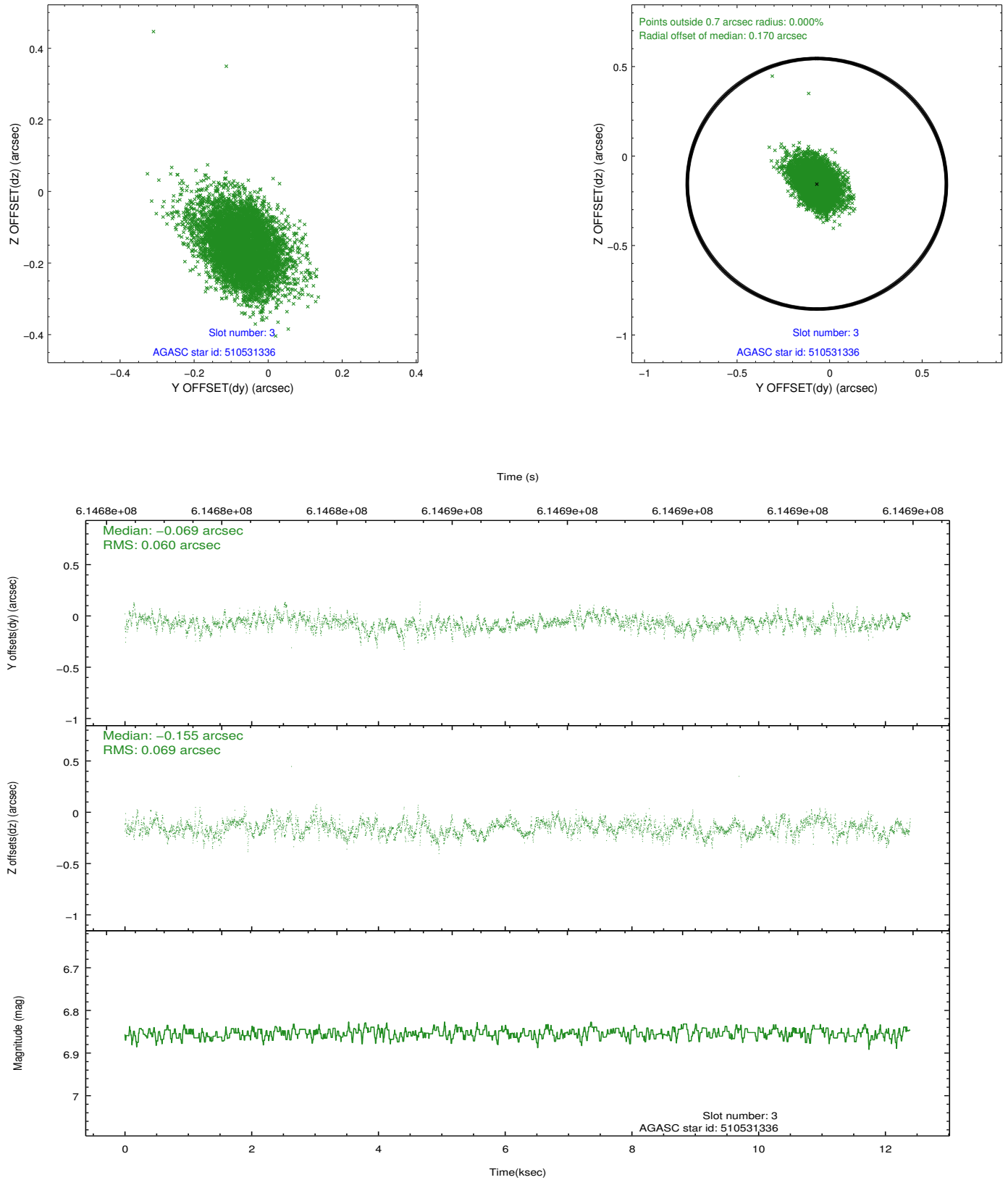


Slot Statistics

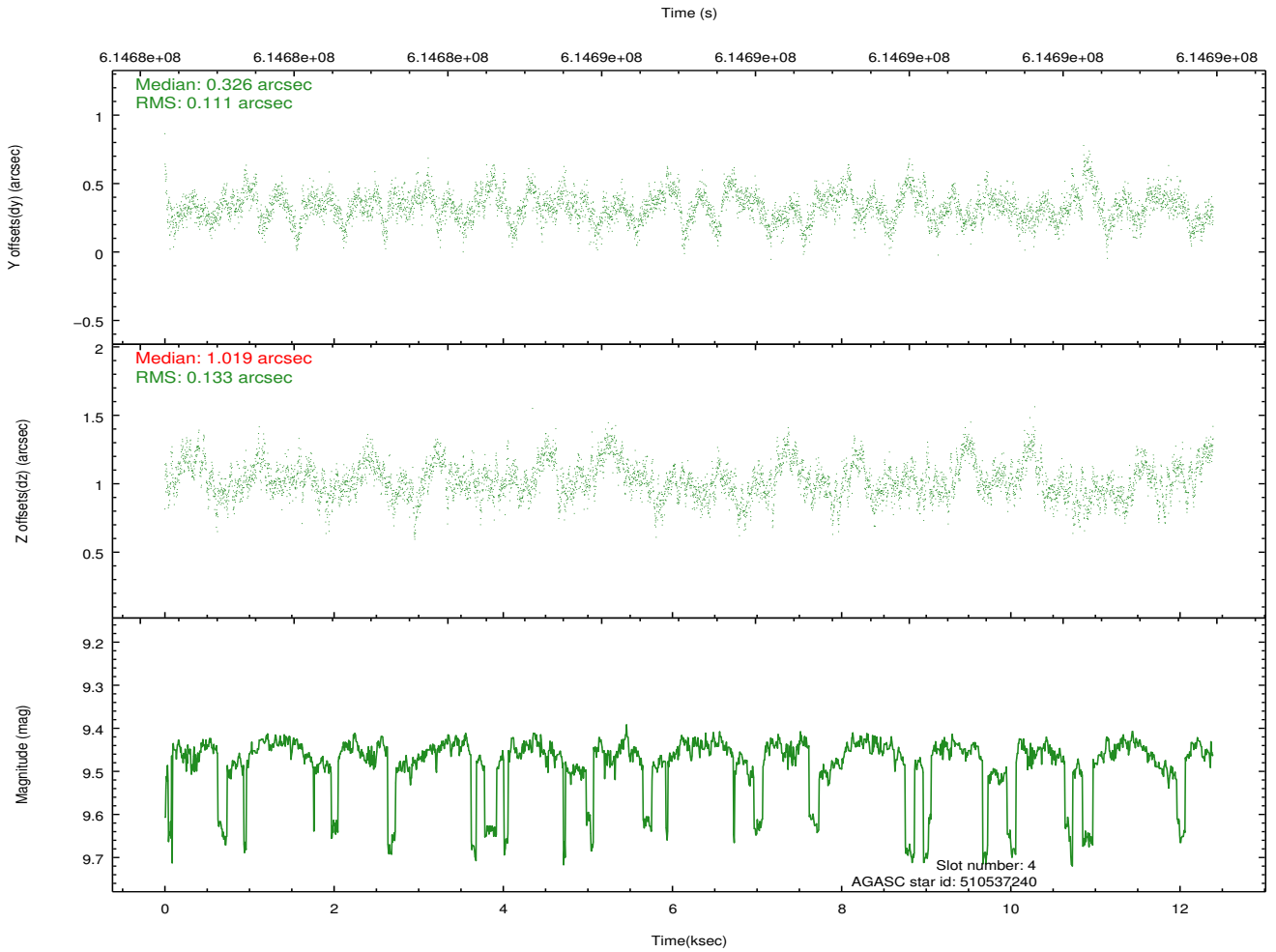
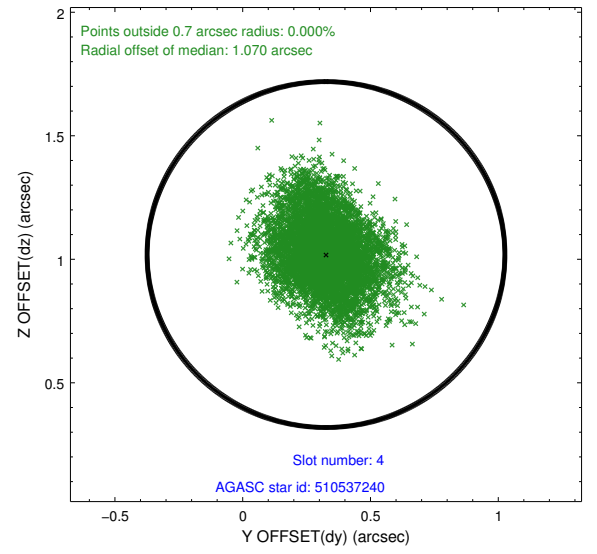
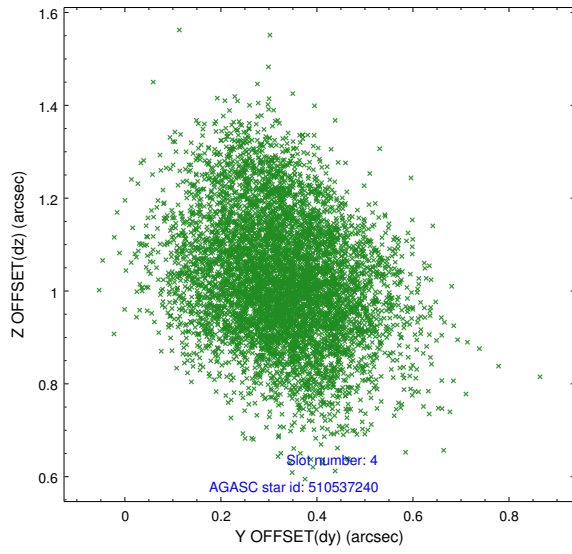
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.03	3023	-0.225	-0.113	0.010	0.016	0.000000	0.000000	-768.23	-1740.88
1	FID		ACIS-S-4	7.15	3023	0.525	0.139	0.010	0.019	0.000000	0.000000	2145.59	167.48
2	FID		ACIS-S-5	7.13	3022	-0.332	-0.016	0.014	0.023	0.000000	0.000000	-1820.69	161.40
3	GUIDE	used	510531336	6.85	6046	-0.069	-0.155	0.095	0.161	258.217938	57.862631	436.57	-1896.97
4	GUIDE	used	510537240	9.46	6038	0.326	1.019	0.186	0.303	259.436318	57.923115	-1793.92	-1185.37
5	GUIDE	used	510537952	9.39	6037	-0.150	-0.841	0.161	0.261	259.803735	57.190117	-1448.13	1523.40
6	GUIDE	used	510537304	7.31	6045	0.100	0.038	0.117	0.195	257.977845	57.967610	705.85	-2427.91
7	GUIDE	used	510536032	9.25	6039	-0.206	-0.064	0.114	0.193	258.787877	57.540840	-112.64	-399.85

2.4 Star Slots

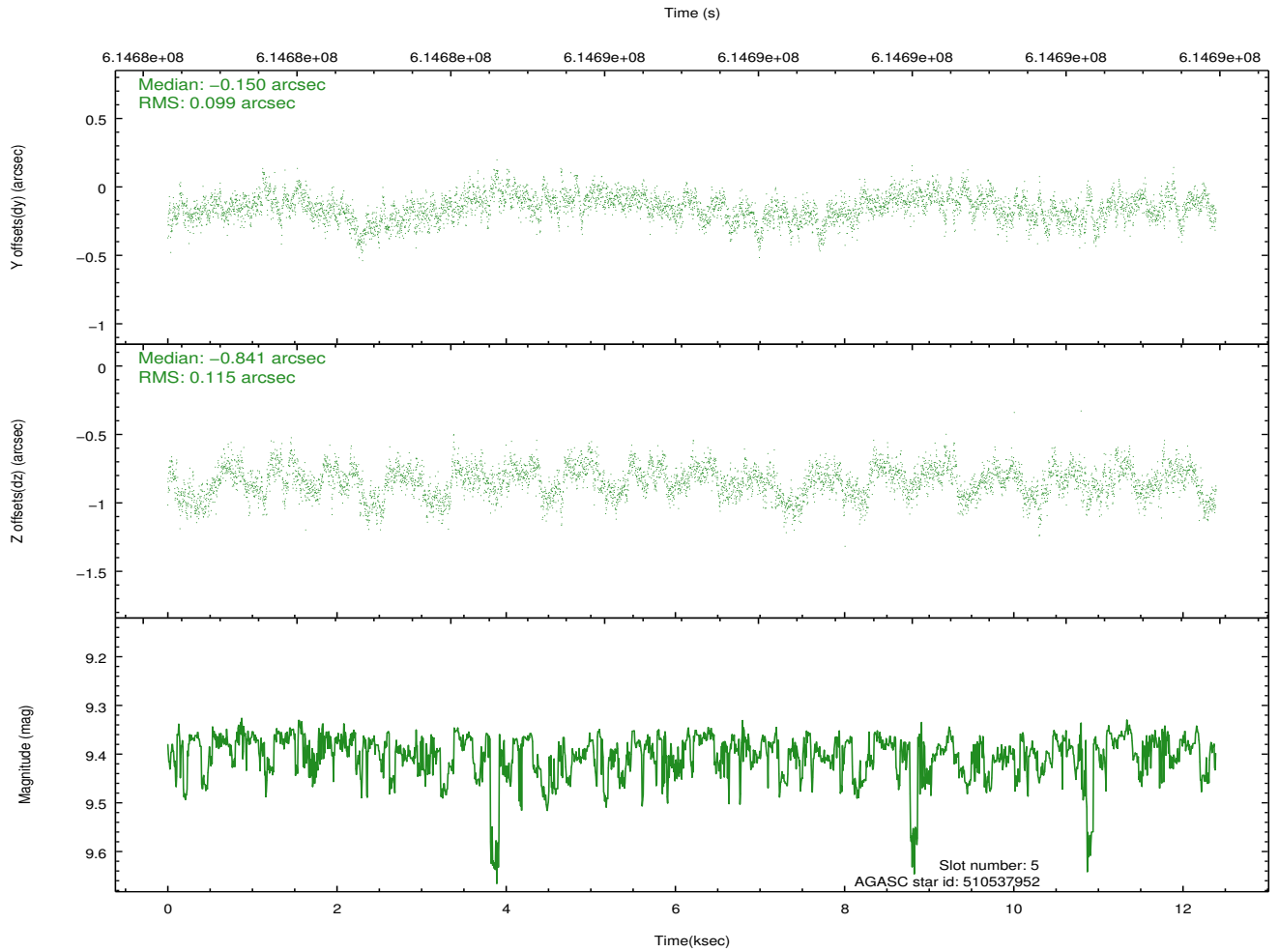
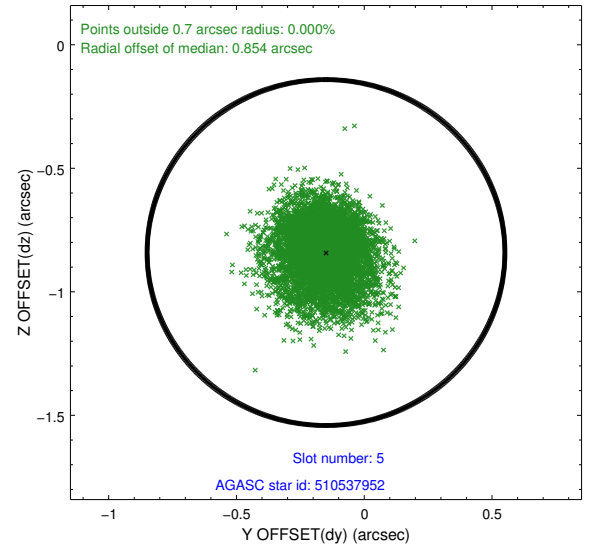
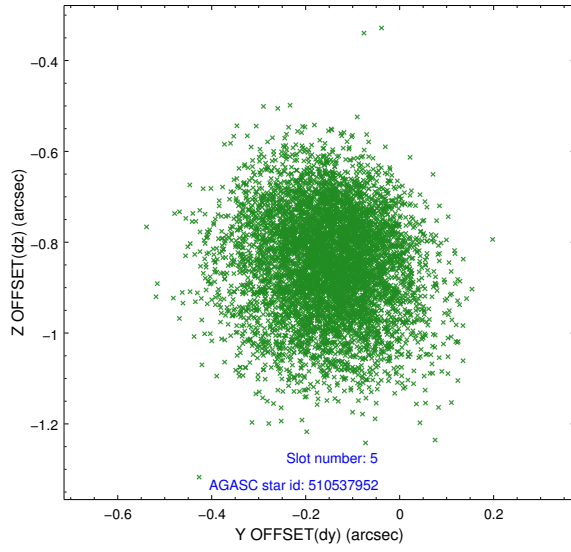
2.4.1 Slot 3



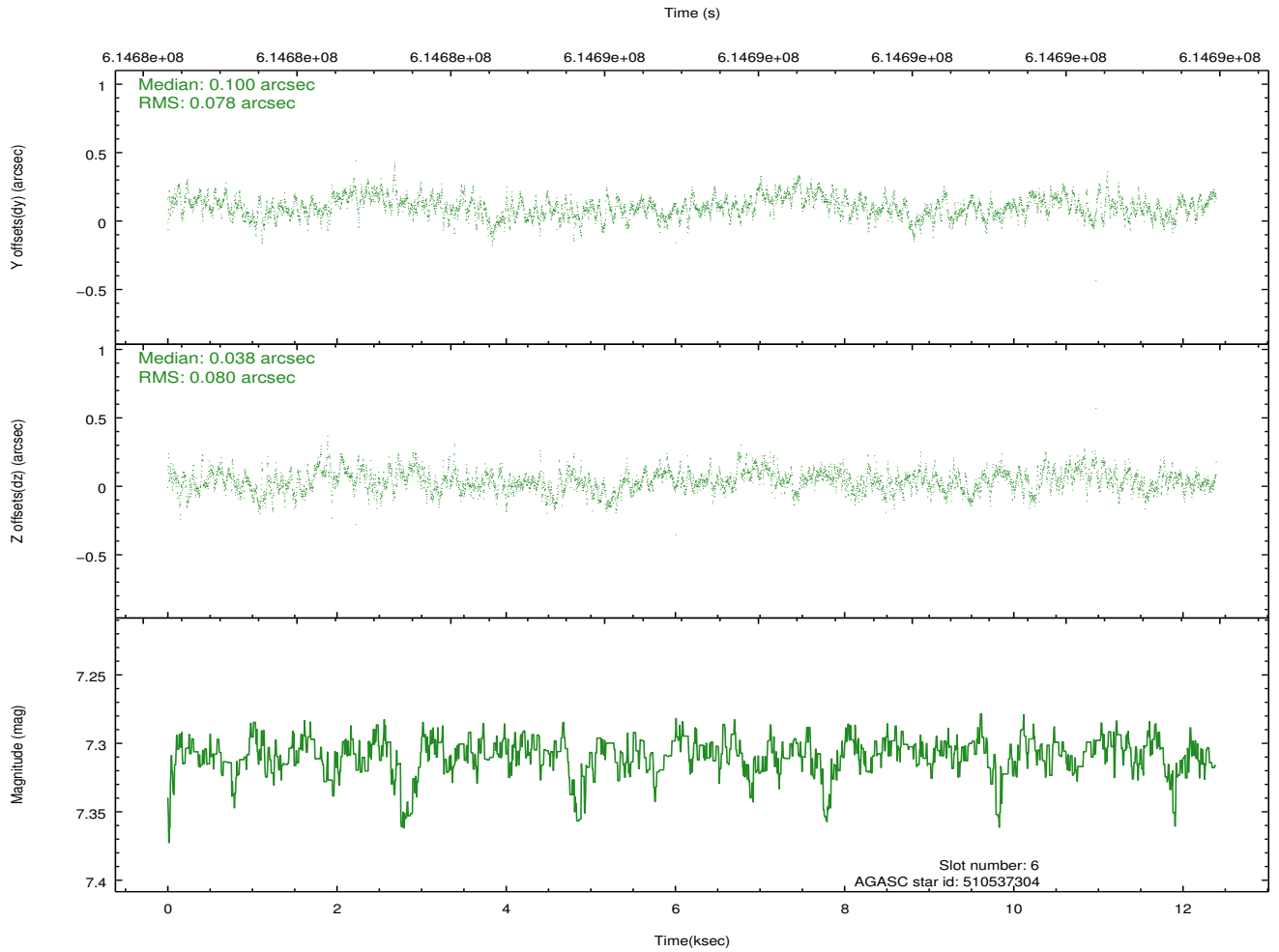
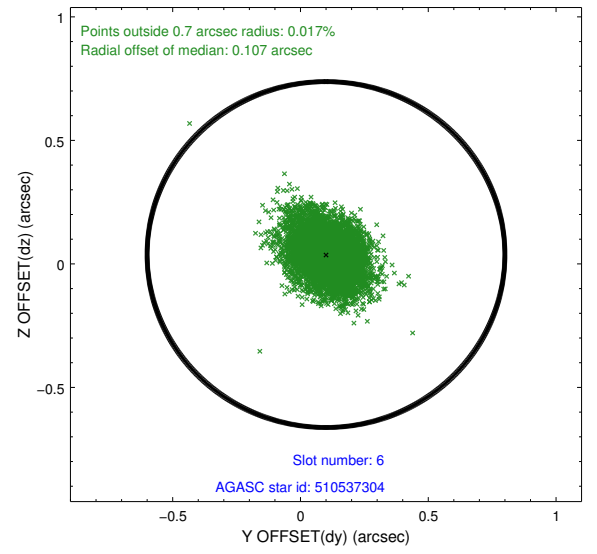
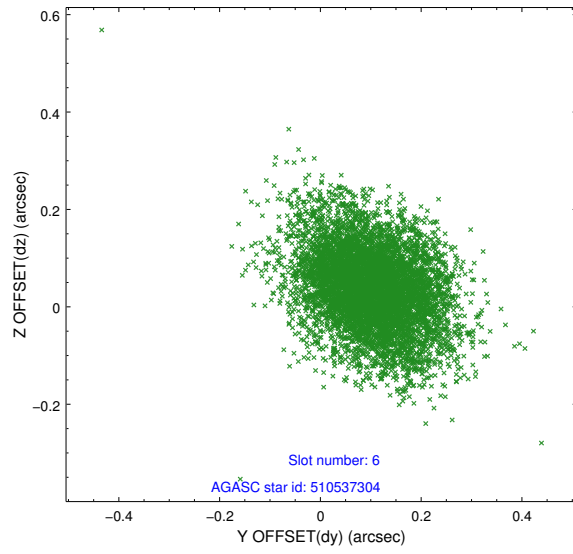
2.4.2 Slot 4



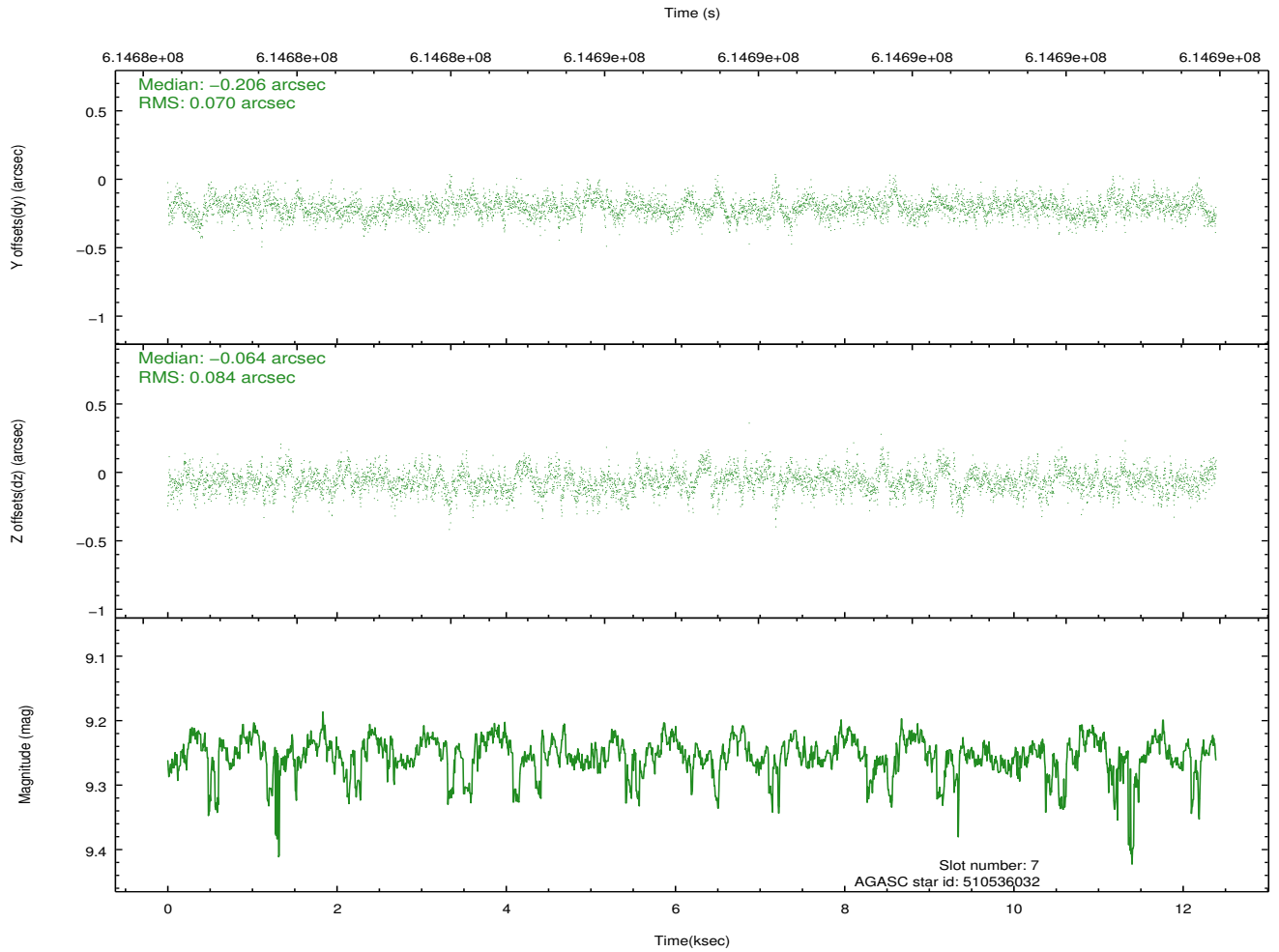
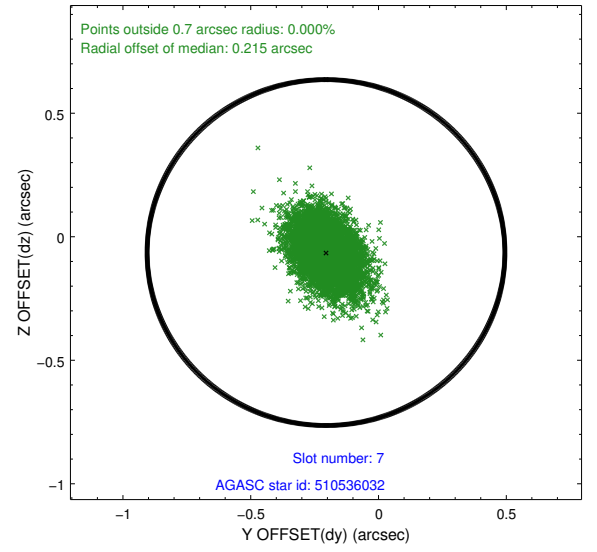
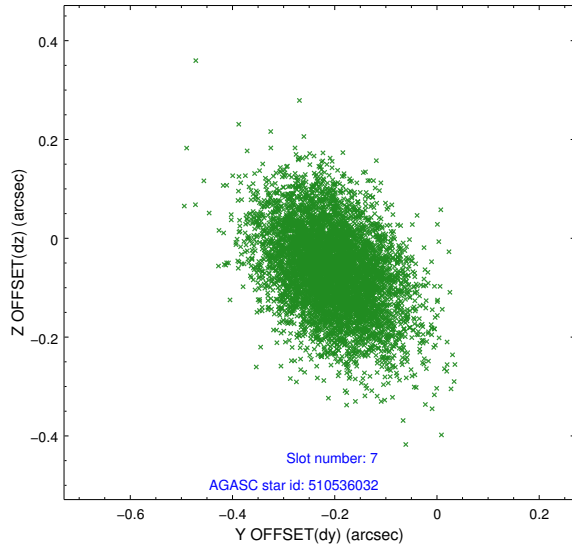
2.4.3 Slot 5



2.4.4 Slot 6

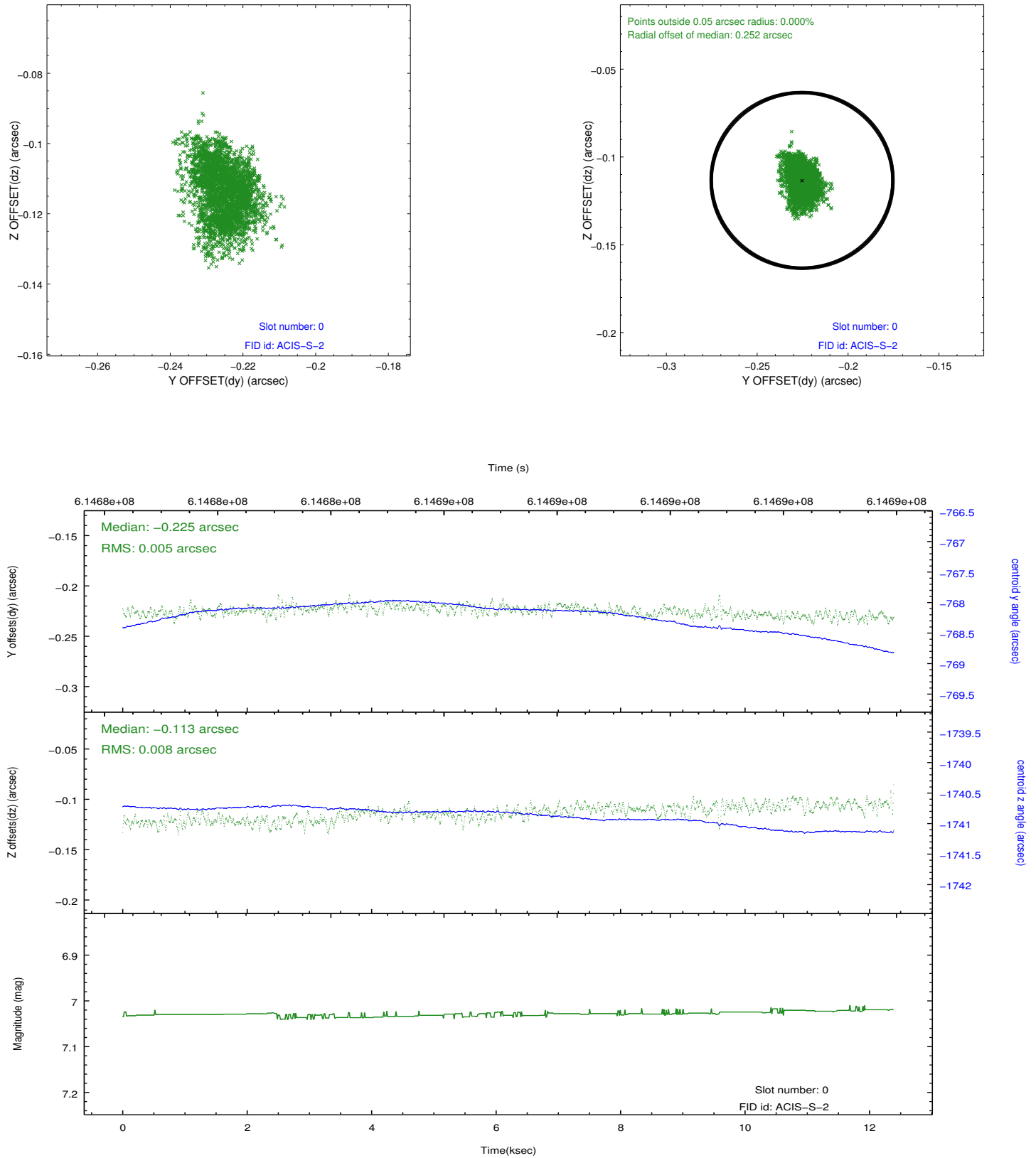


2.4.5 Slot 7

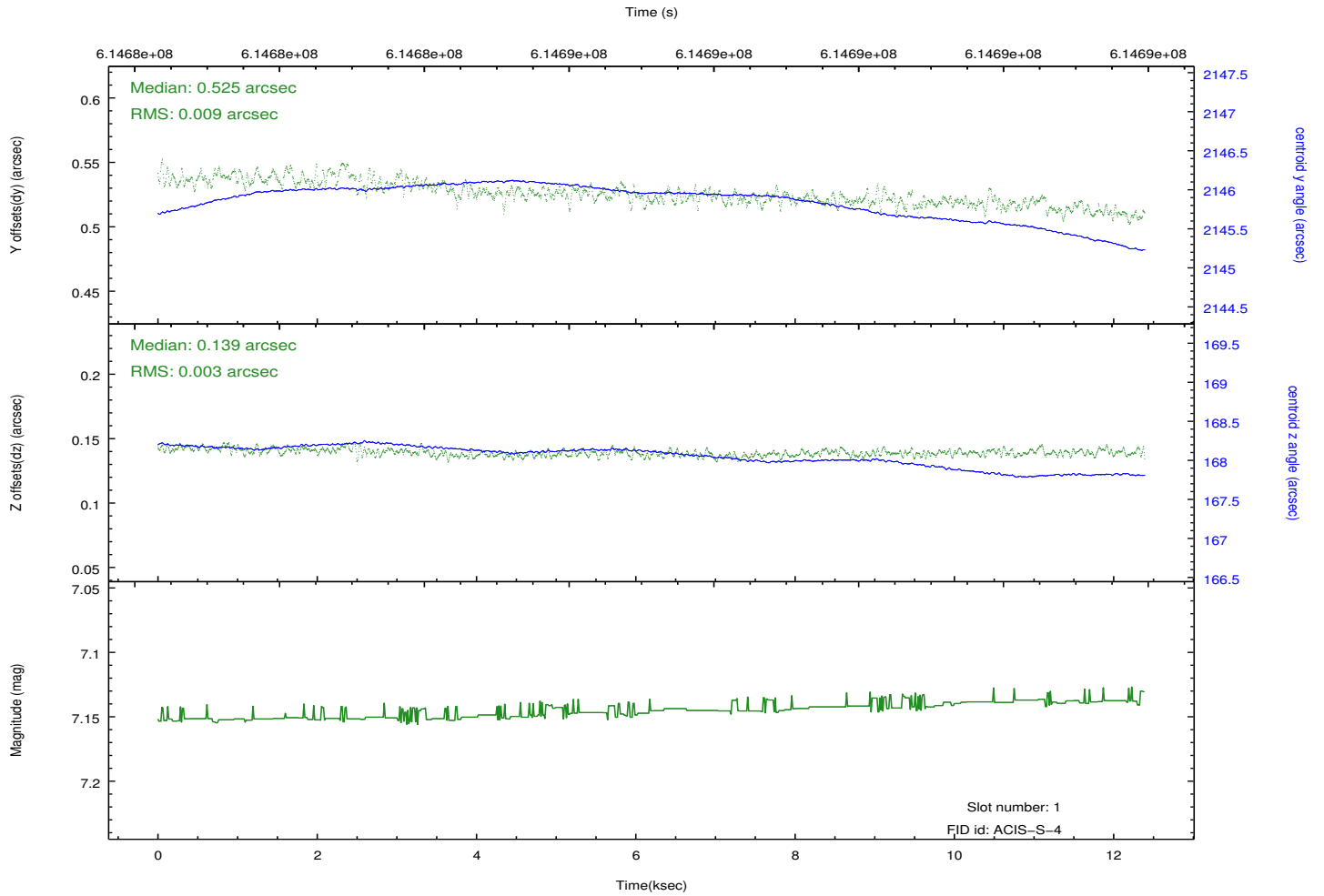
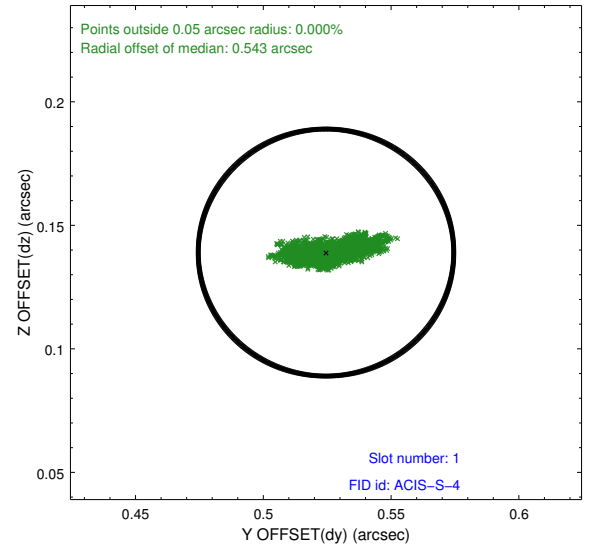
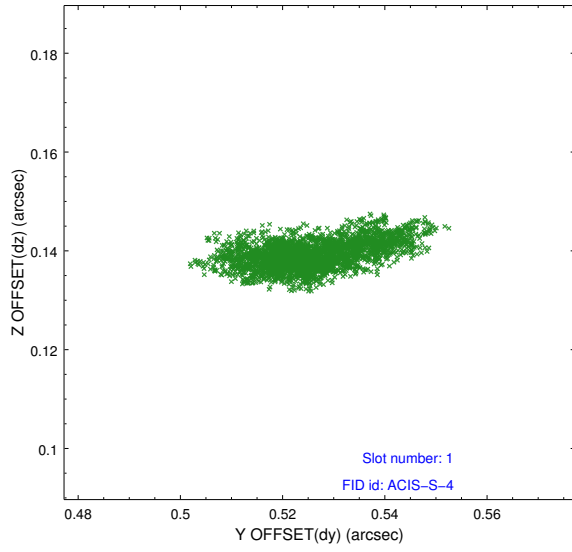


2.5 FID Slots

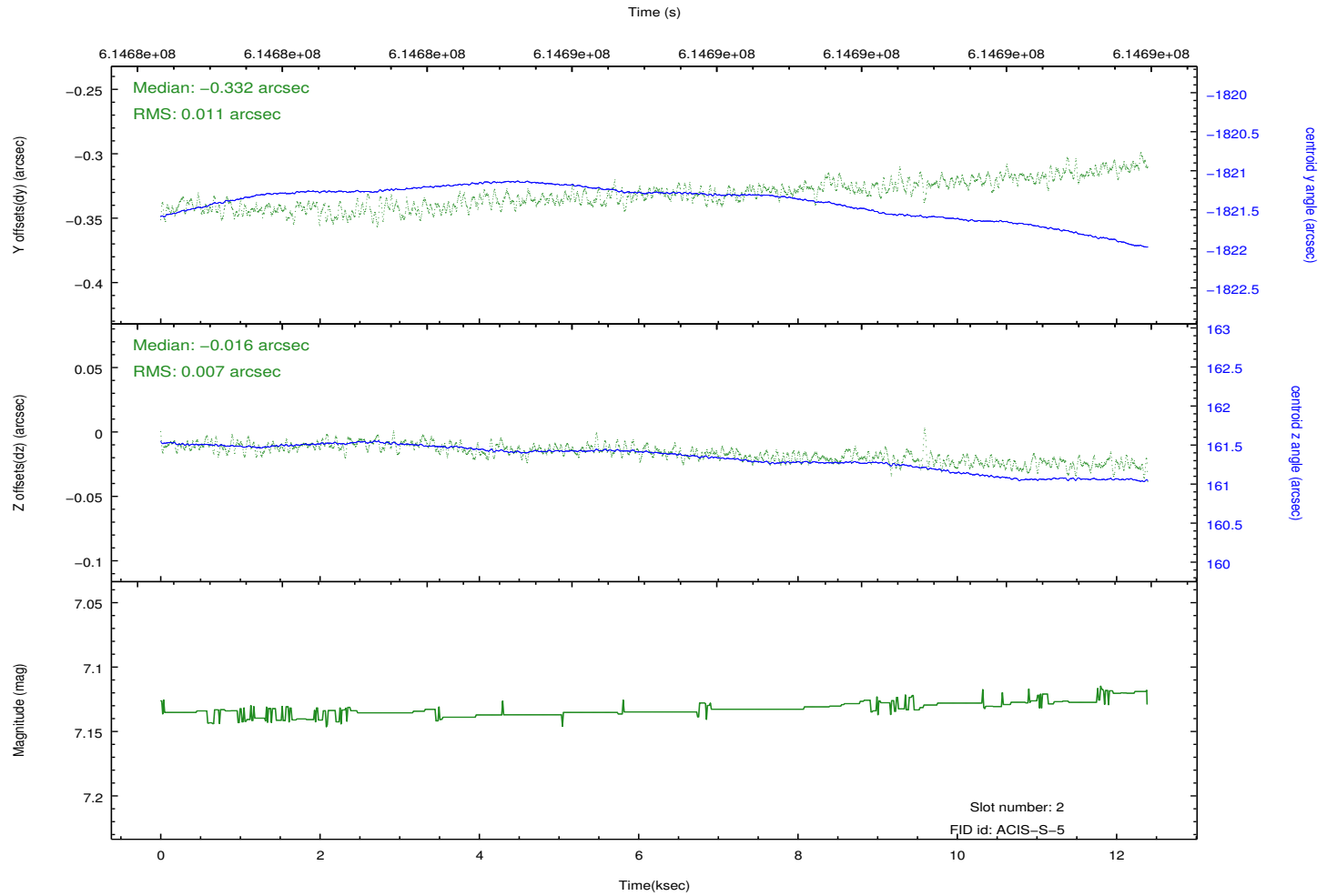
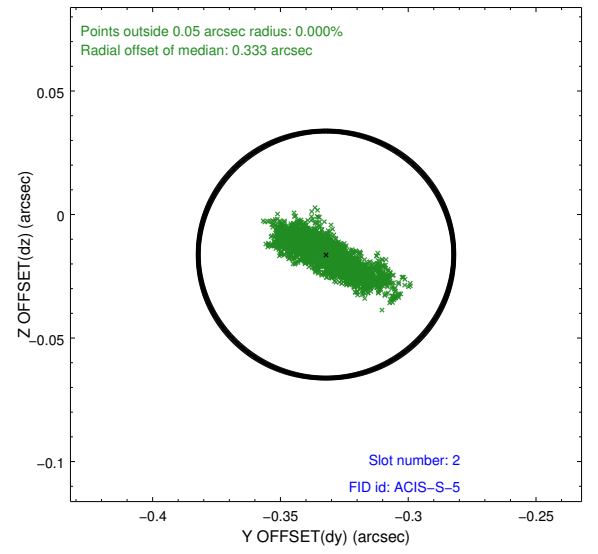
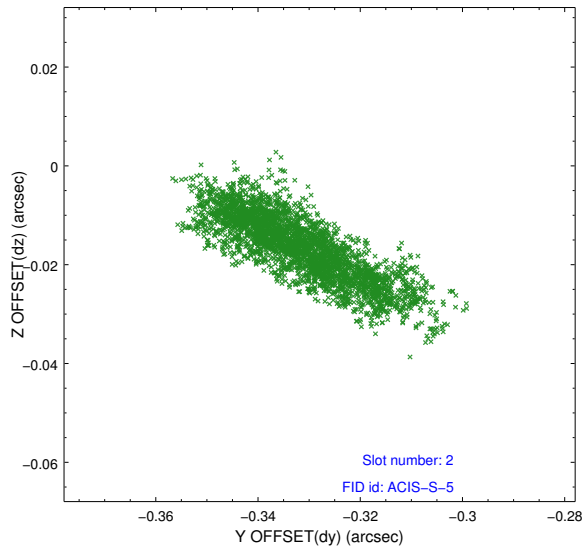
2.5.1 Slot 0



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)	2017.06.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	12.052685815811

A.2 Comments

Joint proposal with XMM.