

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 20112 - L2 Version 1
Chandra X-Ray Center

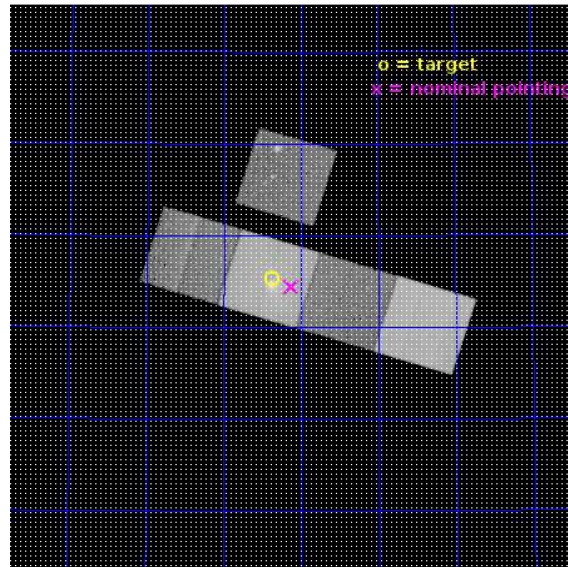
L2 Processing Date : Jul 14 2017

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1 Front

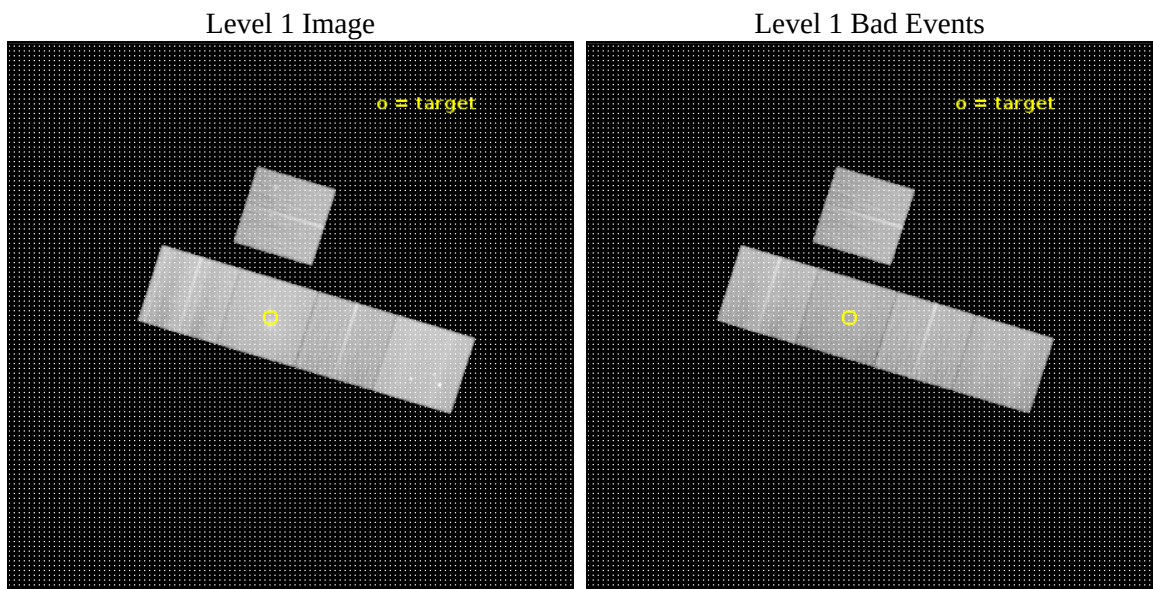
seq_num	801656	Sequence number
obs_id	20112	Observation id
title	Cavities, shocks and stripping in a high-velocity group-group merger: NGC 6338	Proposal title
observer	Ewan O'Sullivan	Principal investigator
object	NGC 6338	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	258.844583	Observer's specified target RA [deg]
dec_targ	57.422139	Observer's specified target Dec [deg]
ra_nom	258.78106256845	Nominal RA [deg]
dec_nom	57.407187969618	Nominal Dec [deg]
roll_nom	197.21015975232	Nominal Roll [deg]
revision	1	Processing version of data
ontime	42048.40032351	Sum of GTIs [s]
livetime	41499.007017702	Livetime [s]
ontime3	42042.11813271	Sum of GTIs [s]
ontime5	42048.40032351	Sum of GTIs [s]
ontime6	42045.259263277	Sum of GTIs [s]
ontime7	42048.40032351	Sum of GTIs [s]
ontime8	42032.695152164	Sum of GTIs [s]
l2events	538238	Number of level 2 events



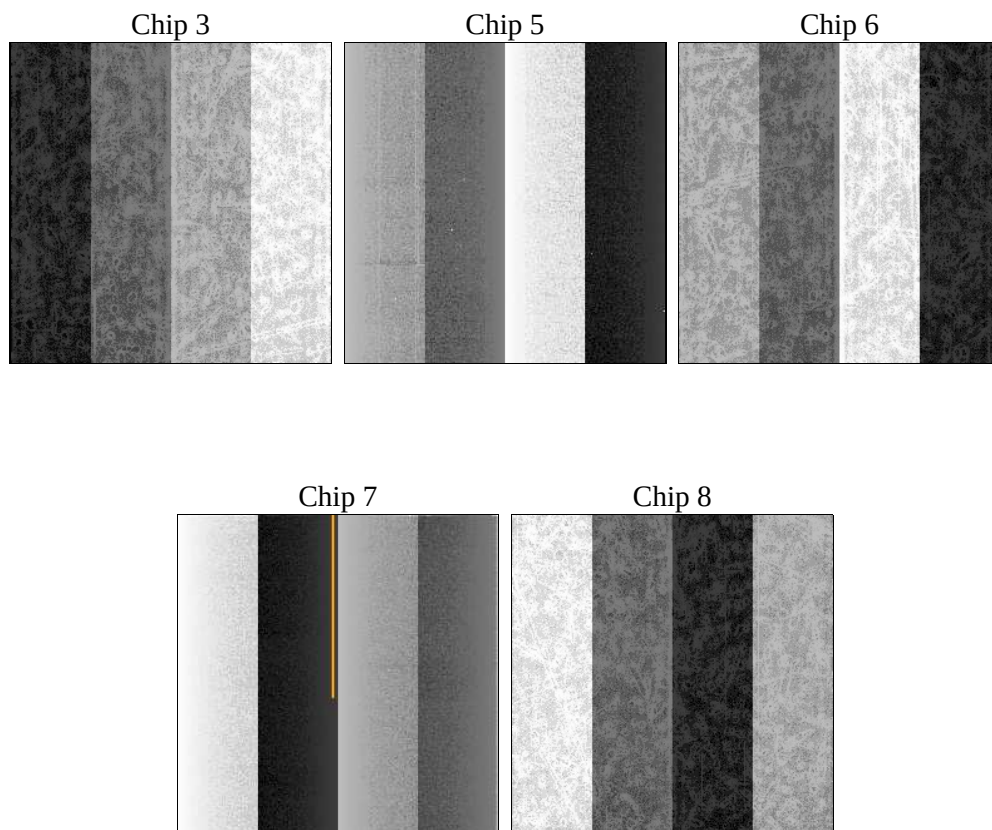
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	42000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	42048.40032351	Sum of GTIs [s]
caldsver	4.7.5	 	ontime3	42042.11813271	Sum of GTIs [s]
date	2017-07-14T14:09:30	Date and time of file creation	ontime5	42048.40032351	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	42045.259263277	Sum of GTIs [s]
			ontime7	42048.40032351	Sum of GTIs [s]
			ontime8	42032.695152164	Sum of GTIs [s]
			l1events	1976275	Number of level 1 events

2.1.4 Events

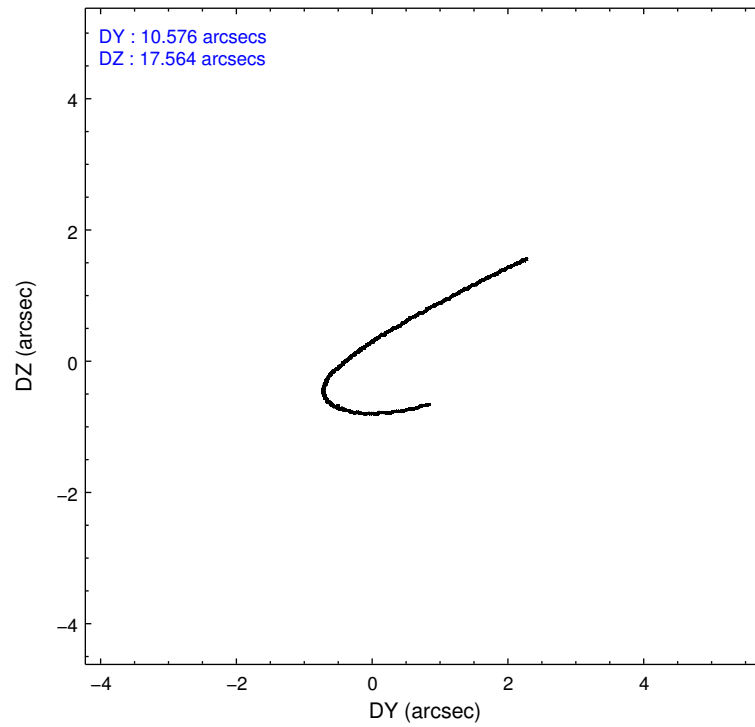
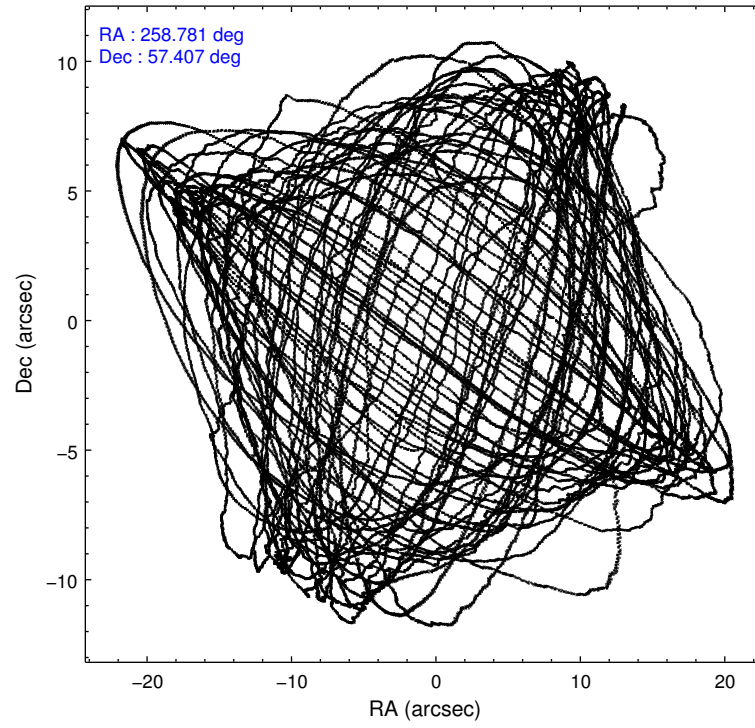
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	305427	490296	327089	442116	411347
rejected events	270779	256393	287885	225162	304135
rejected %	88%	52%	88%	50%	73%

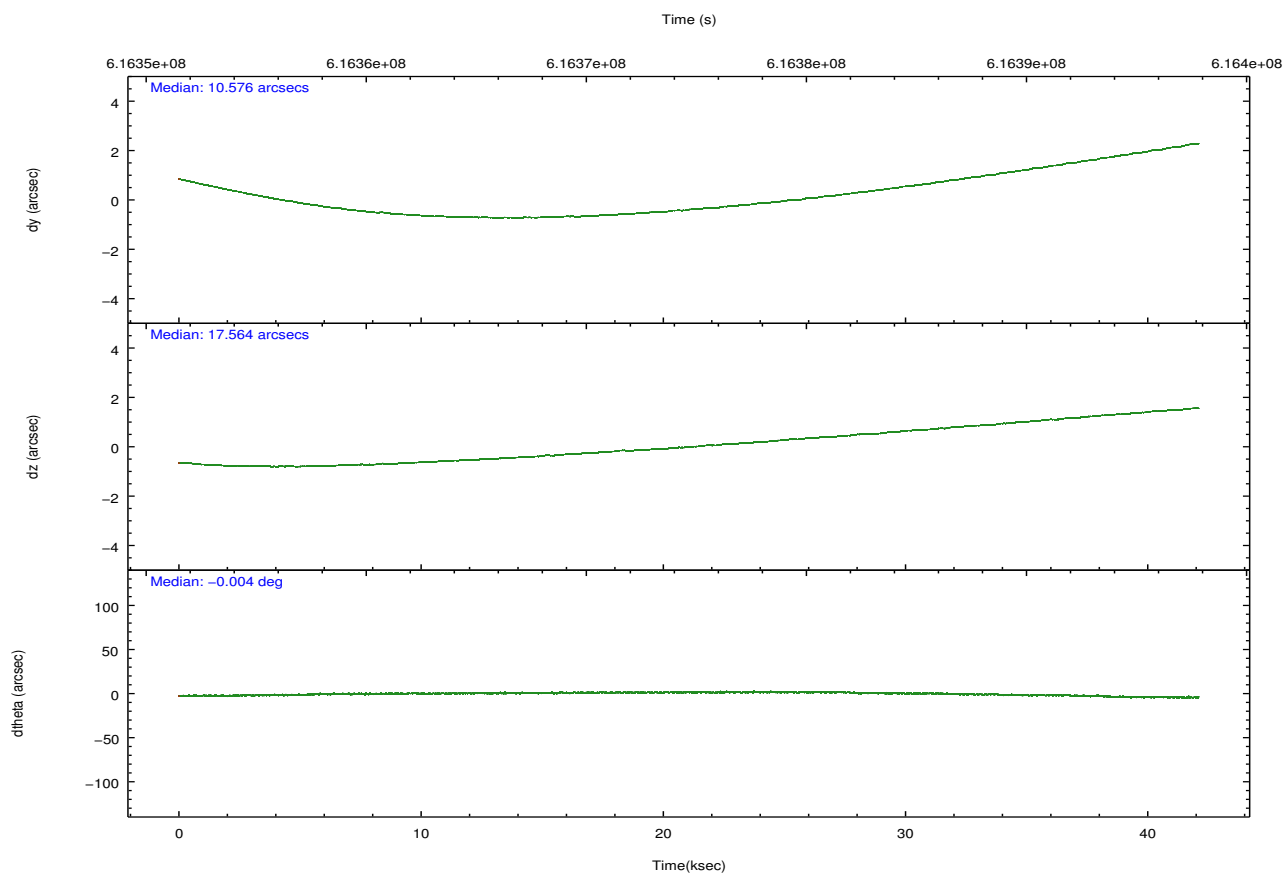
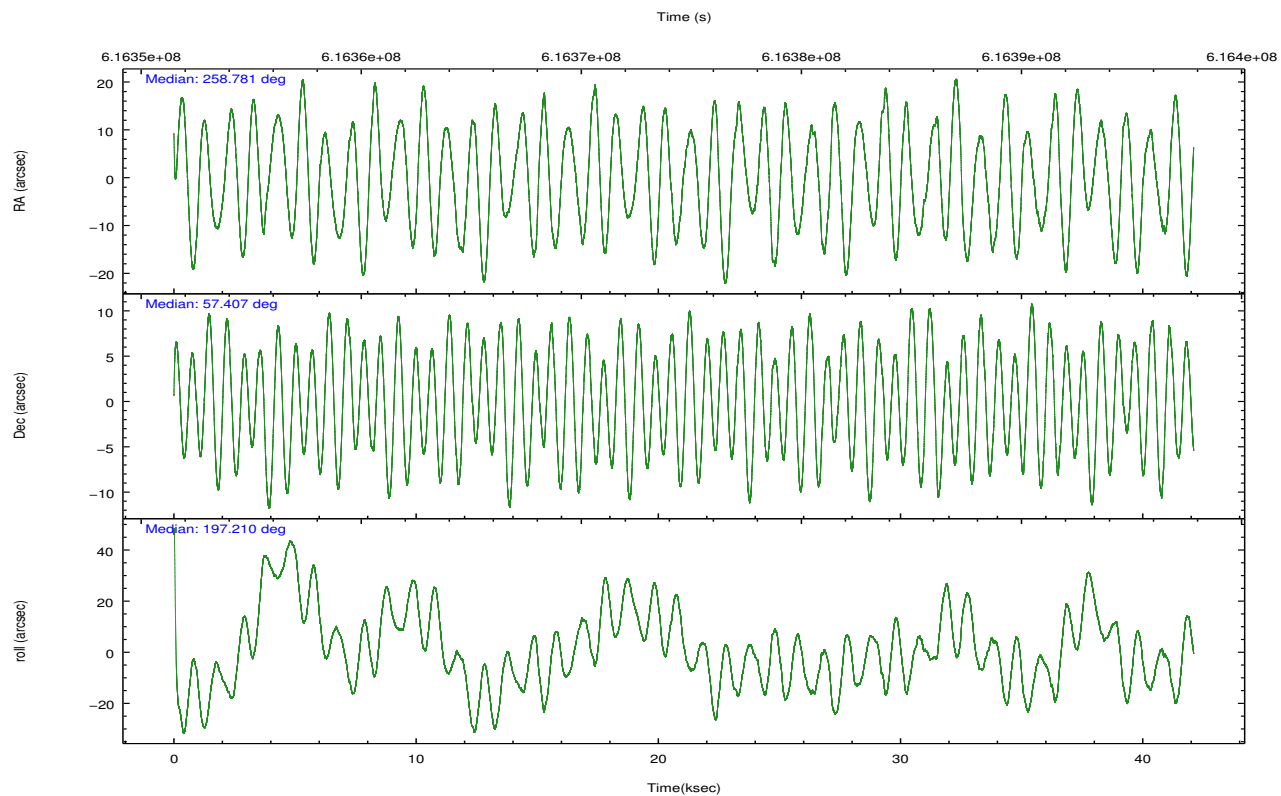
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	13322	16748	14436	27589	31203
	4%	3%	4%	6%	7%
grade 1 events	195	1573	164	578	340
	0%	0%	0%	0%	0%
grade 2 events	7378	72690	9142	48123	26347
	2%	14%	2%	10%	6%
grade 3 events	3499	7151	3426	18827	10560
	1%	1%	1%	4%	2%
grade 4 events	3521	7060	3357	18831	9913
	1%	1%	1%	4%	2%
grade 5 events	14343	33001	14131	39702	21432
	4%	6%	4%	8%	5%
grade 6 events	6934	130290	8852	103611	29199
	2%	26%	2%	23%	7%
grade 7 events	256235	221783	273581	184855	282353
	83%	45%	83%	41%	68%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-35678	ACIS-35678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	258.815206	258.7810625684478	CCD I2 on	N	N
[deg] Pointing Dec	57.427563	57.40718796961782	CCD I3 on	O1	Y
[deg] Pointing Roll	197.024750	197.2101597523242	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	616353699.184000	616352368.87277	CCD S5 on	N	N
Observation start date	2017-07-13T17:20:30	2017-07-13T16:59:28	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	616395699.184000	616396353.16284	On-chip summing requested	N	N
Observation end date	2017-07-14T05:00:30	2017-07-14T05:12:33	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



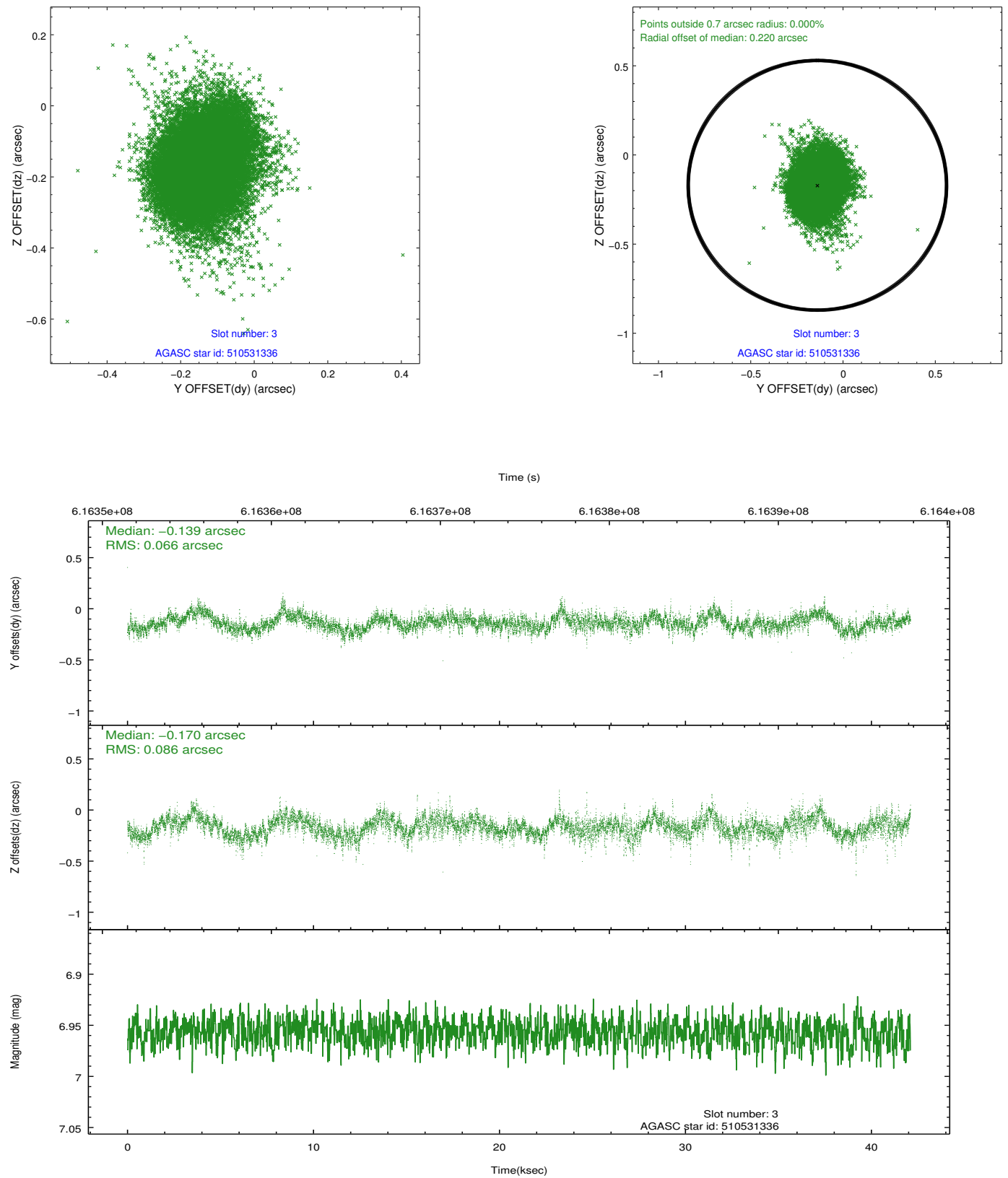


Slot Statistics

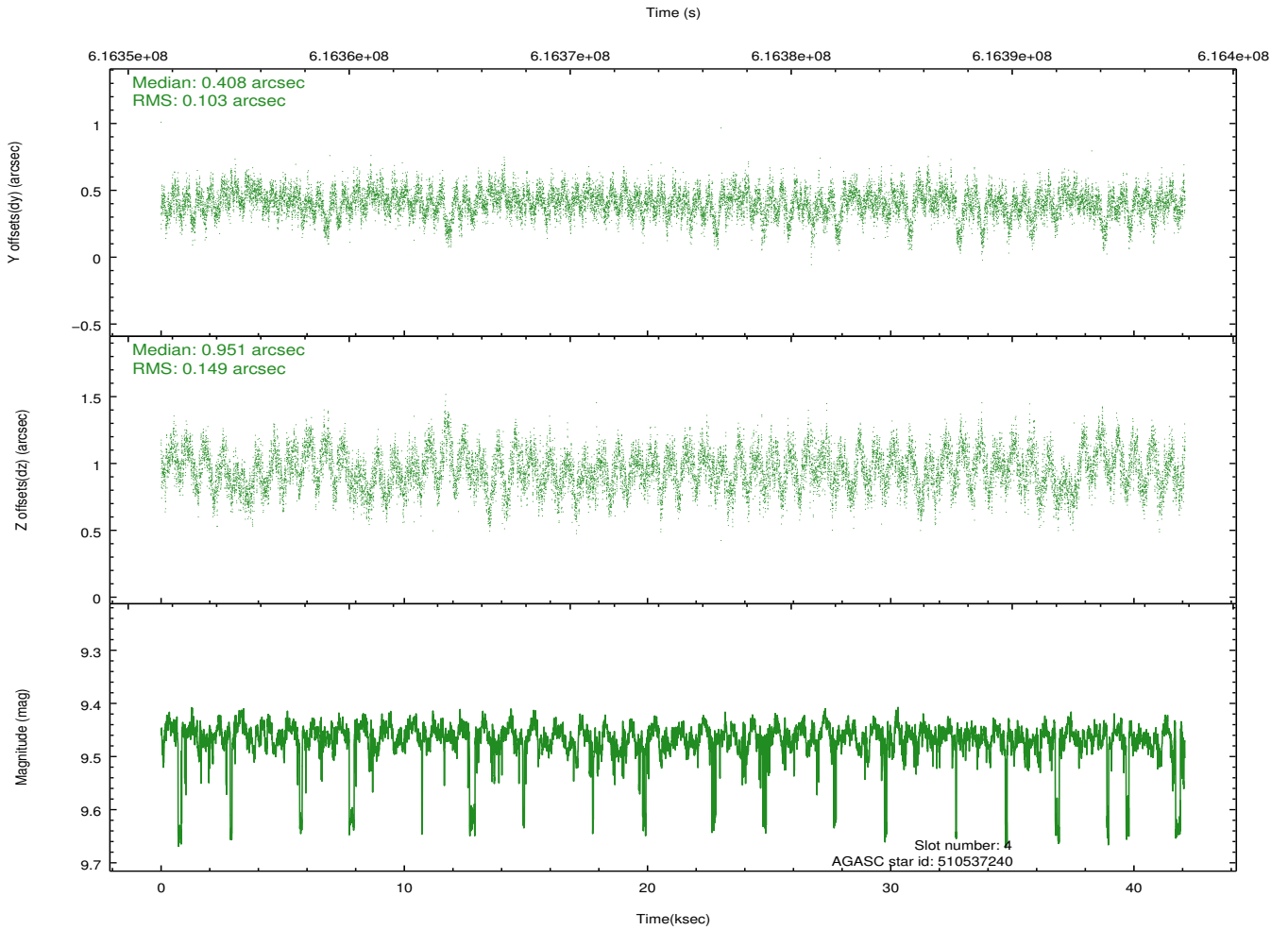
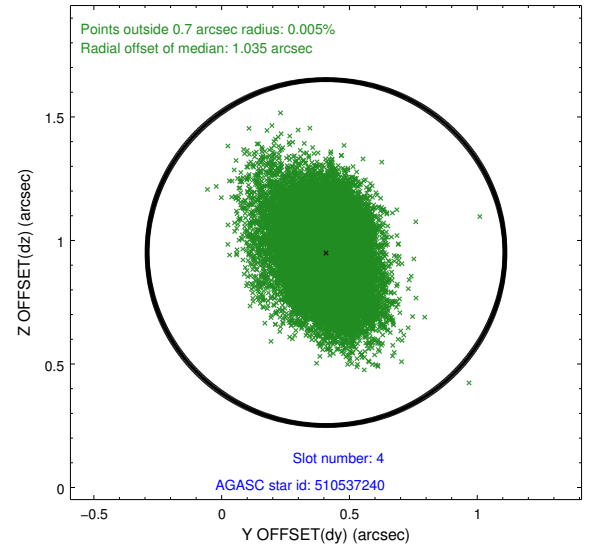
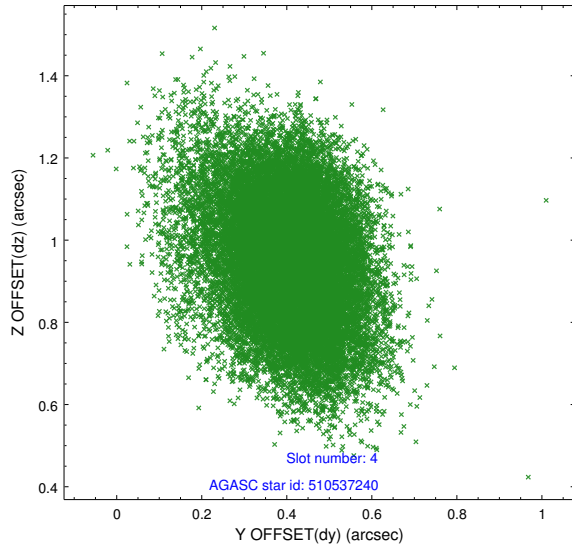
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.09	10270	-0.159	-0.100	0.015	0.024	0.000000	0.000000	-763.83	-1739.18
1	FID		ACIS-S-4	7.21	10270	0.420	0.104	0.014	0.023	0.000000	0.000000	2150.03	169.49
2	FID		ACIS-S-5	7.22	10270	-0.291	0.006	0.014	0.027	0.000000	0.000000	-1816.79	163.08
3	GUIDE	used	510531336	6.96	20536	-0.139	-0.170	0.114	0.190	258.217938	57.862631	633.89	-1836.93
4	GUIDE	used	510537240	9.46	20509	0.408	0.951	0.191	0.316	259.436318	57.923115	-1658.50	-1361.93
5	GUIDE	used	510537304	7.30	20537	0.102	-0.004	0.174	0.276	257.977845	57.967610	957.39	-2337.20
6	GUIDE	used	510537952	9.36	20506	-0.084	-0.703	0.204	0.341	259.803735	57.190117	-1597.19	1368.29
7	GUIDE	used	510536032	9.25	20519	-0.273	-0.060	0.181	0.305	258.787877	57.540840	-68.84	-404.84

2.4 Star Slots

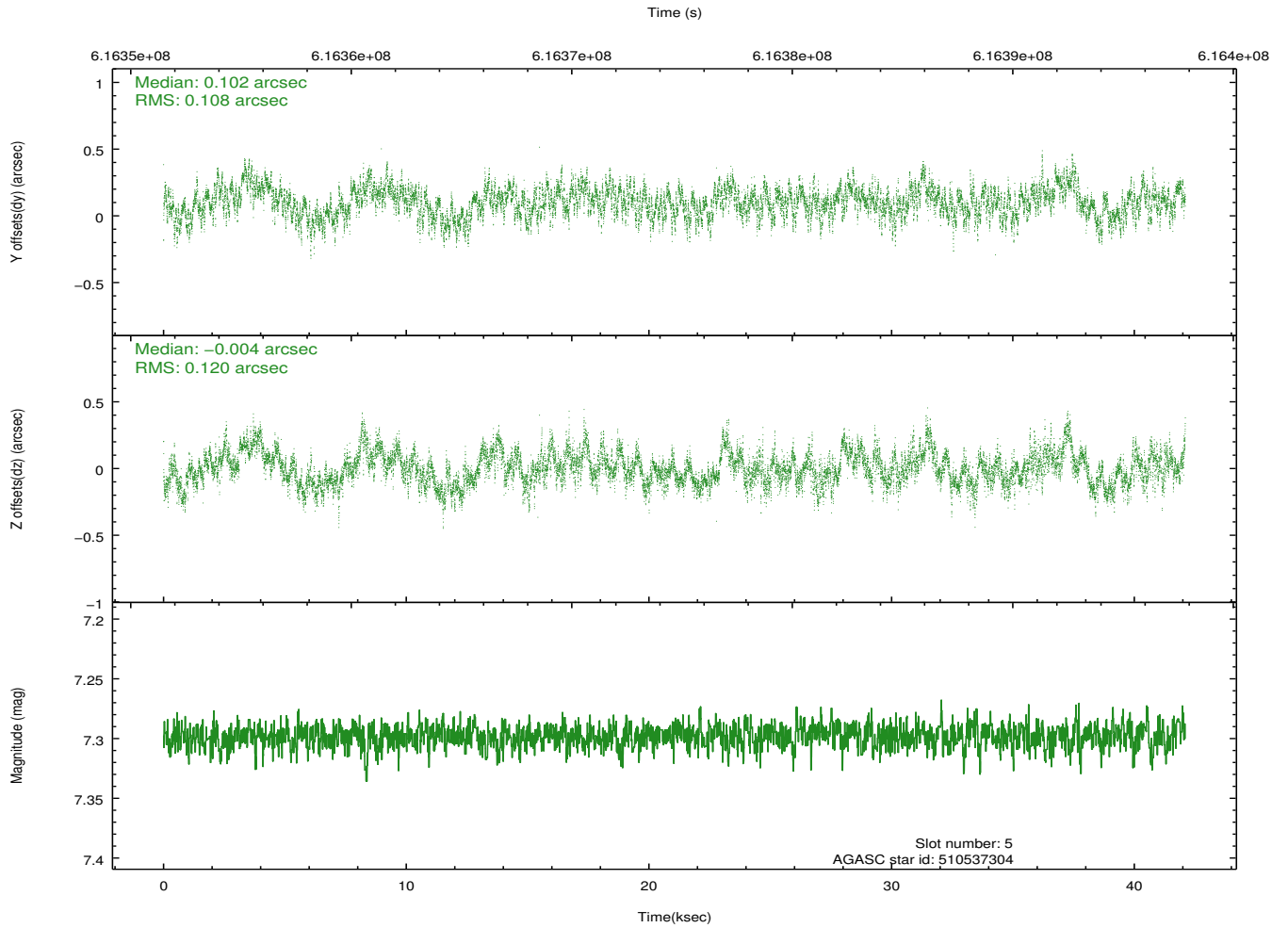
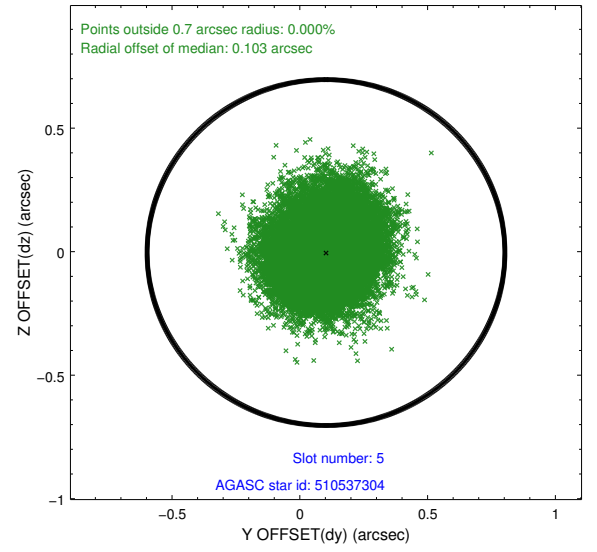
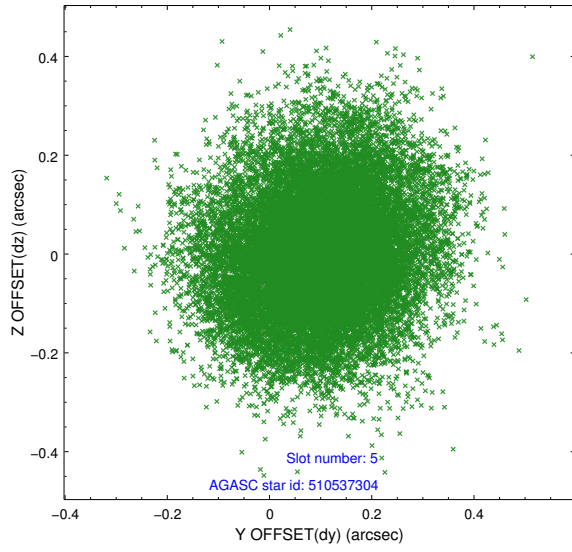
2.4.1 Slot 3



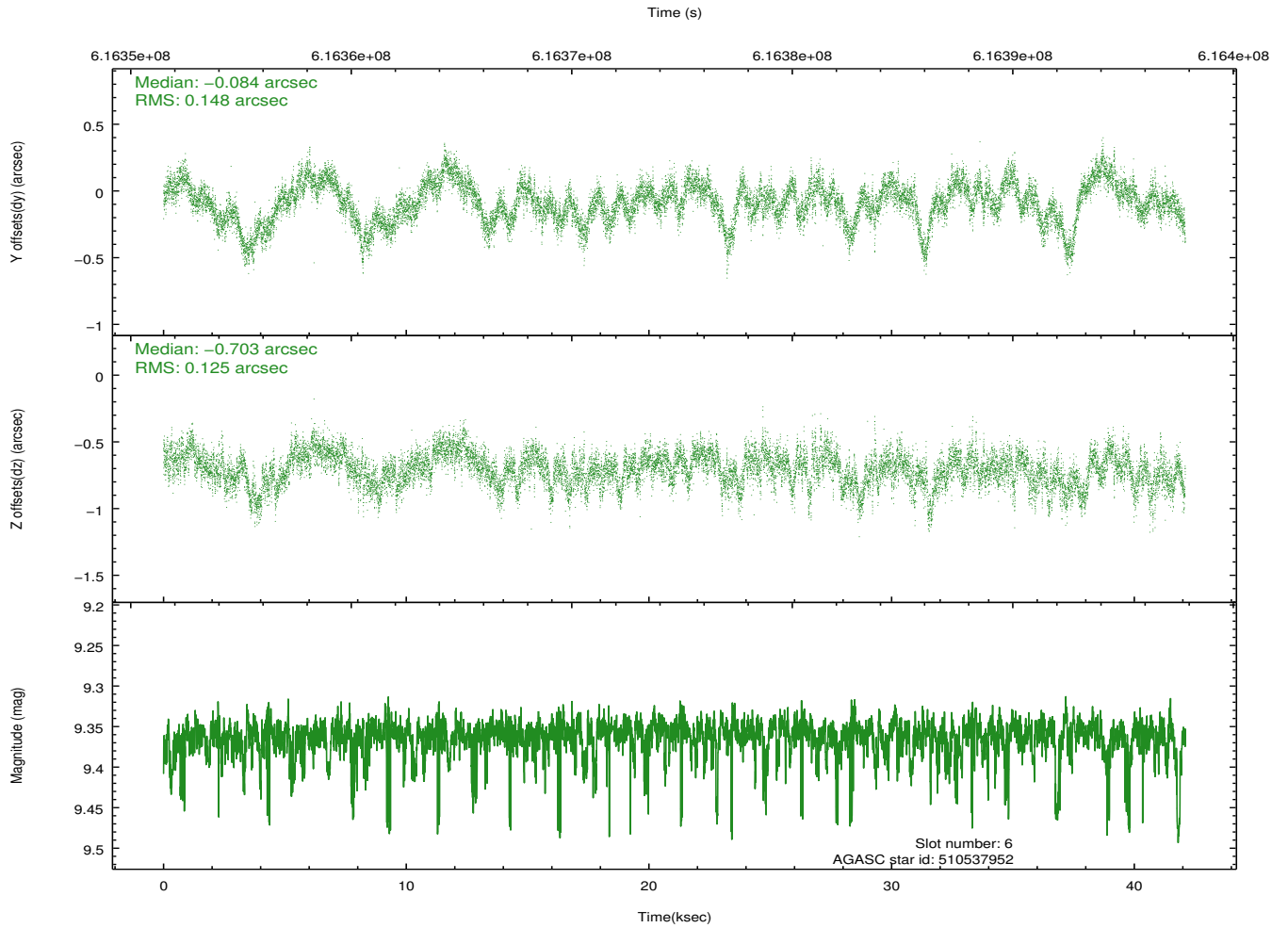
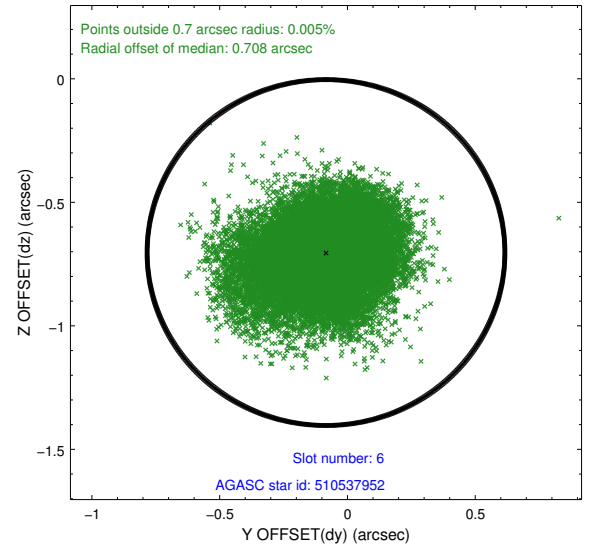
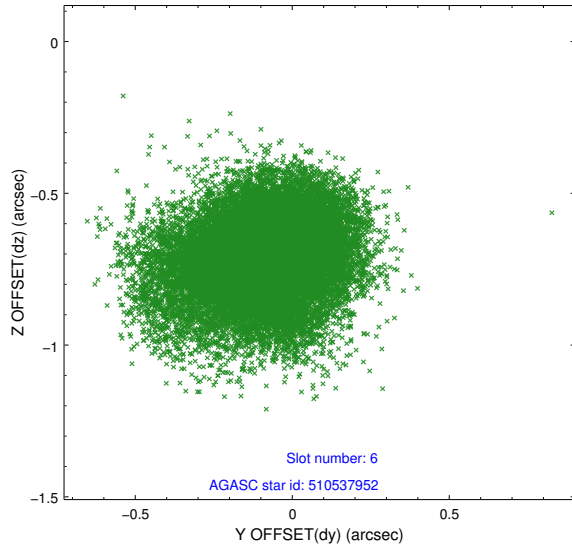
2.4.2 Slot 4



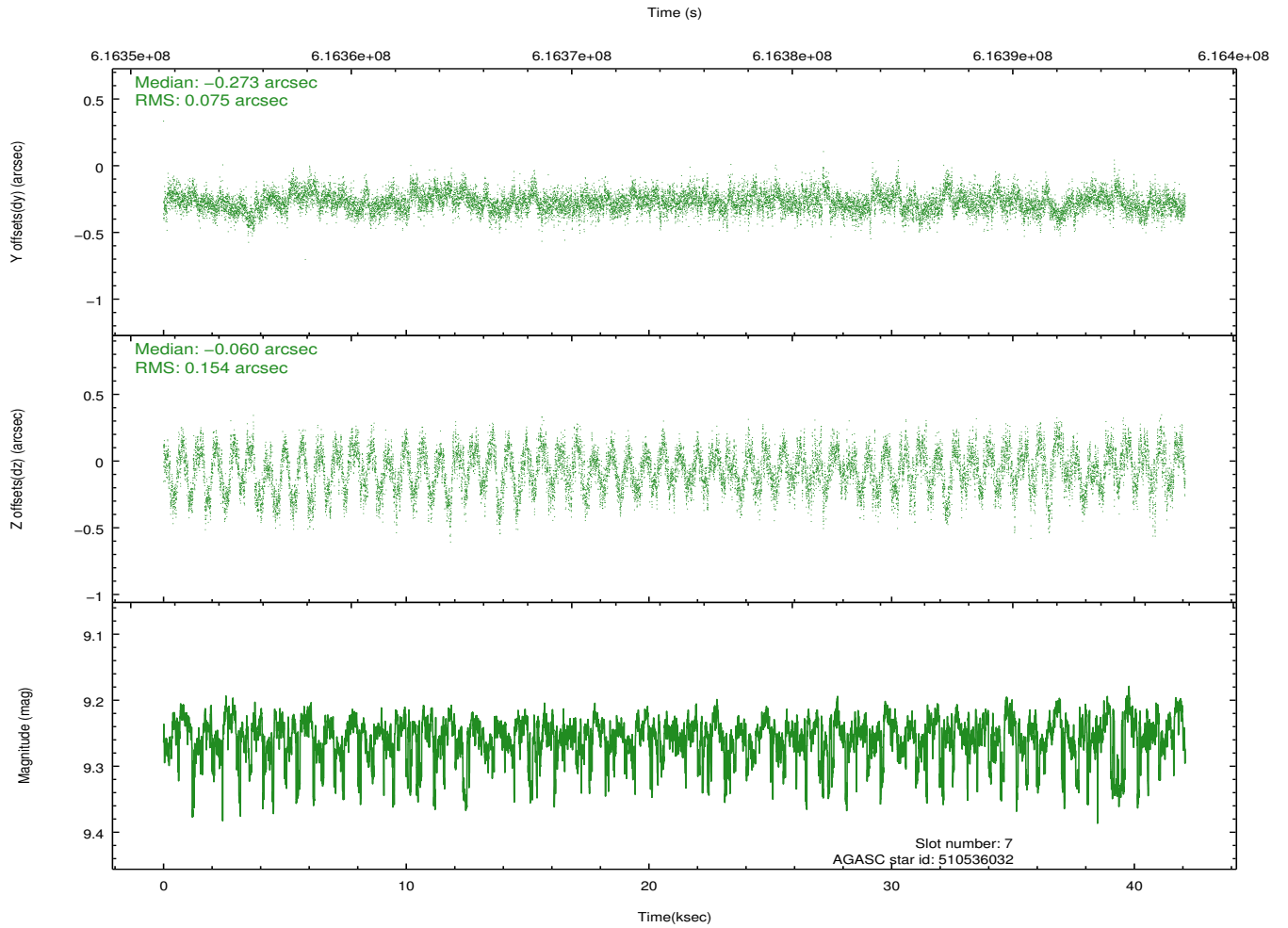
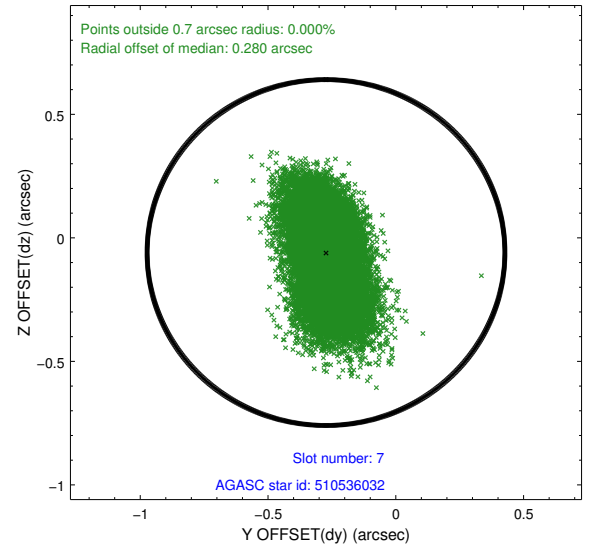
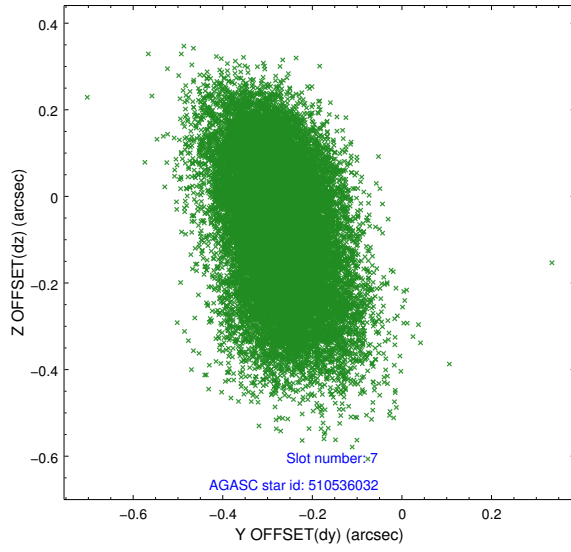
2.4.3 Slot 5



2.4.4 Slot 6

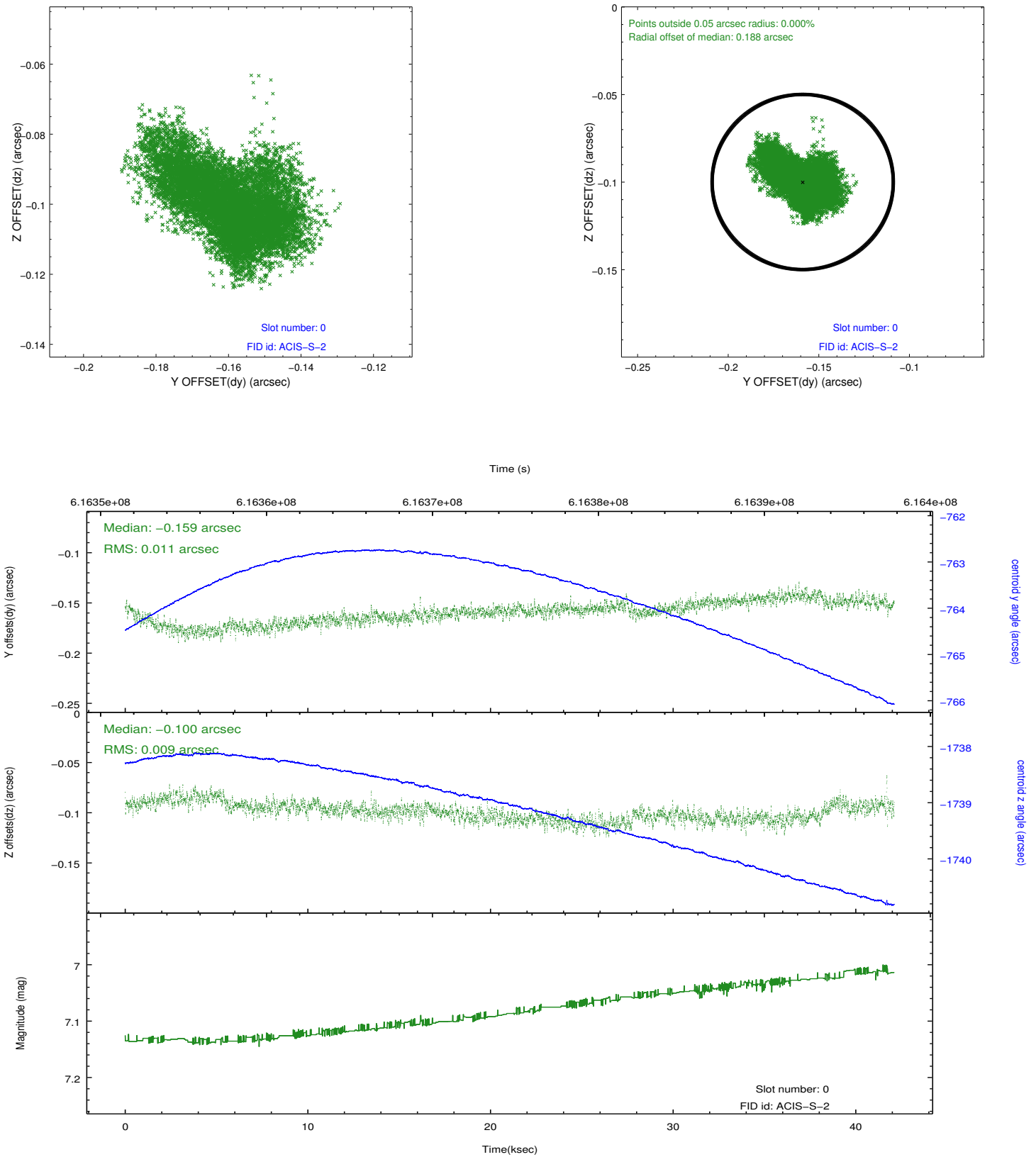


2.4.5 Slot 7

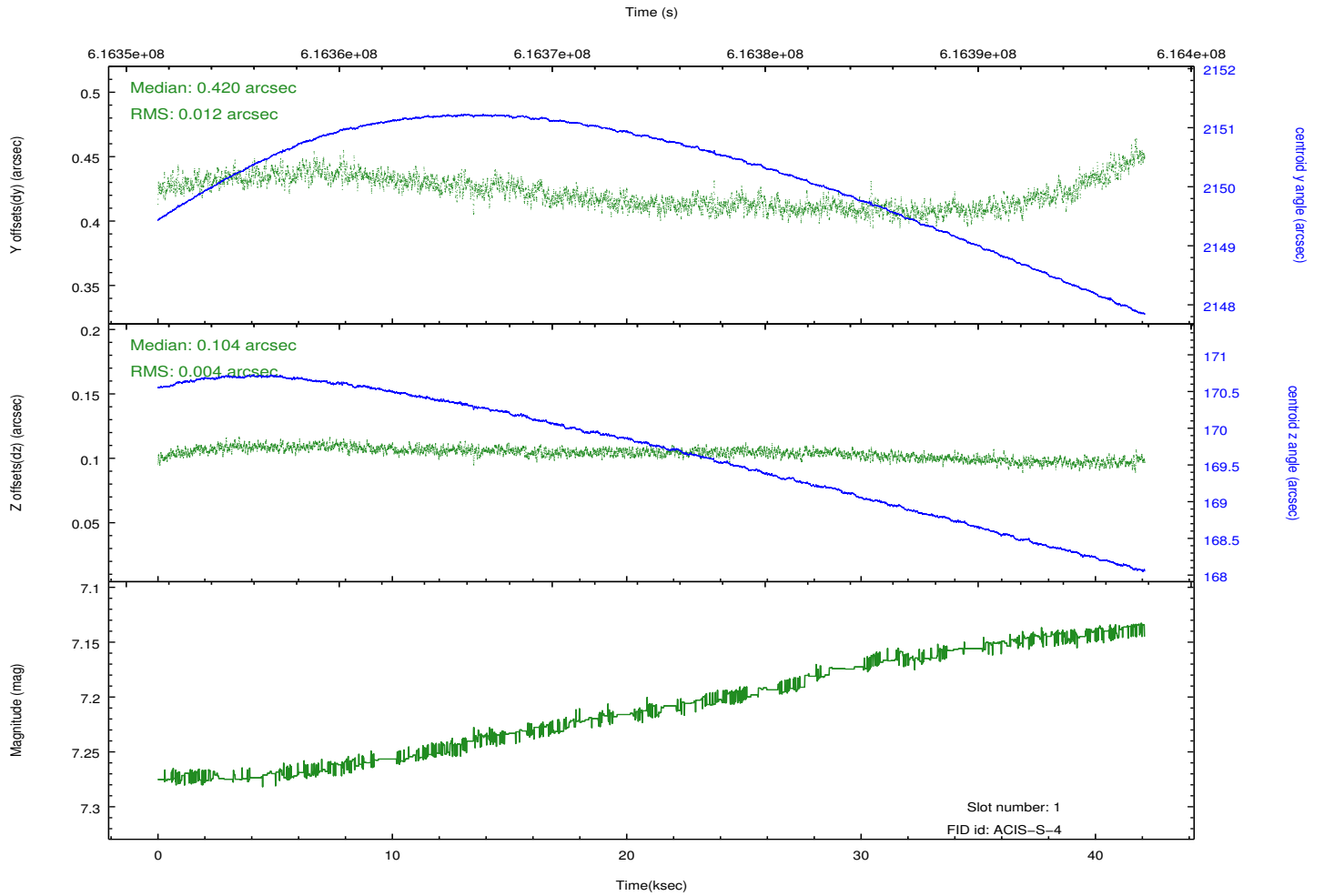
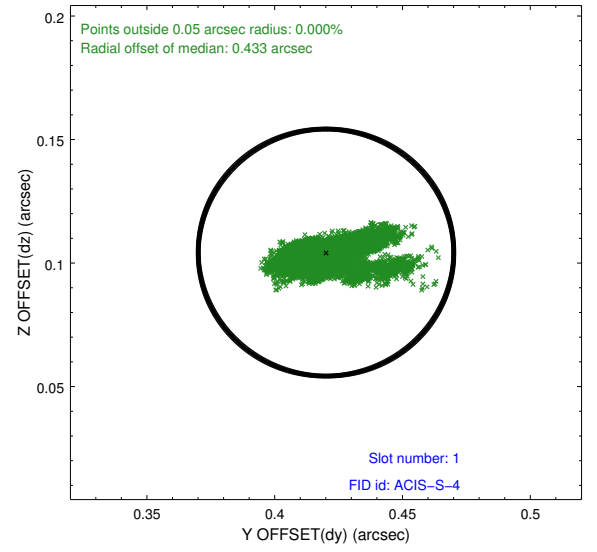
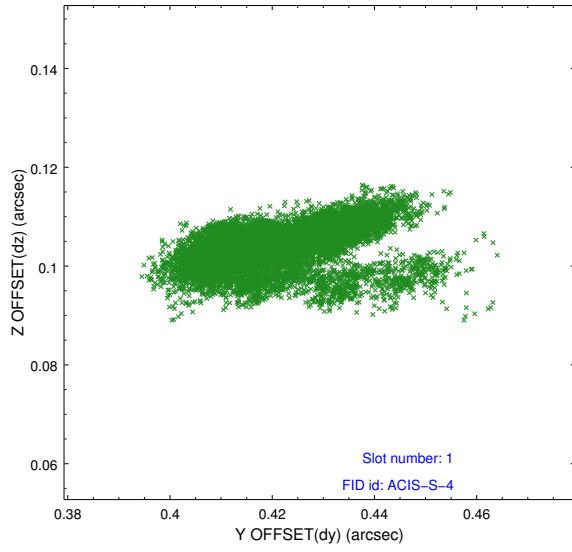


2.5 FID Slots

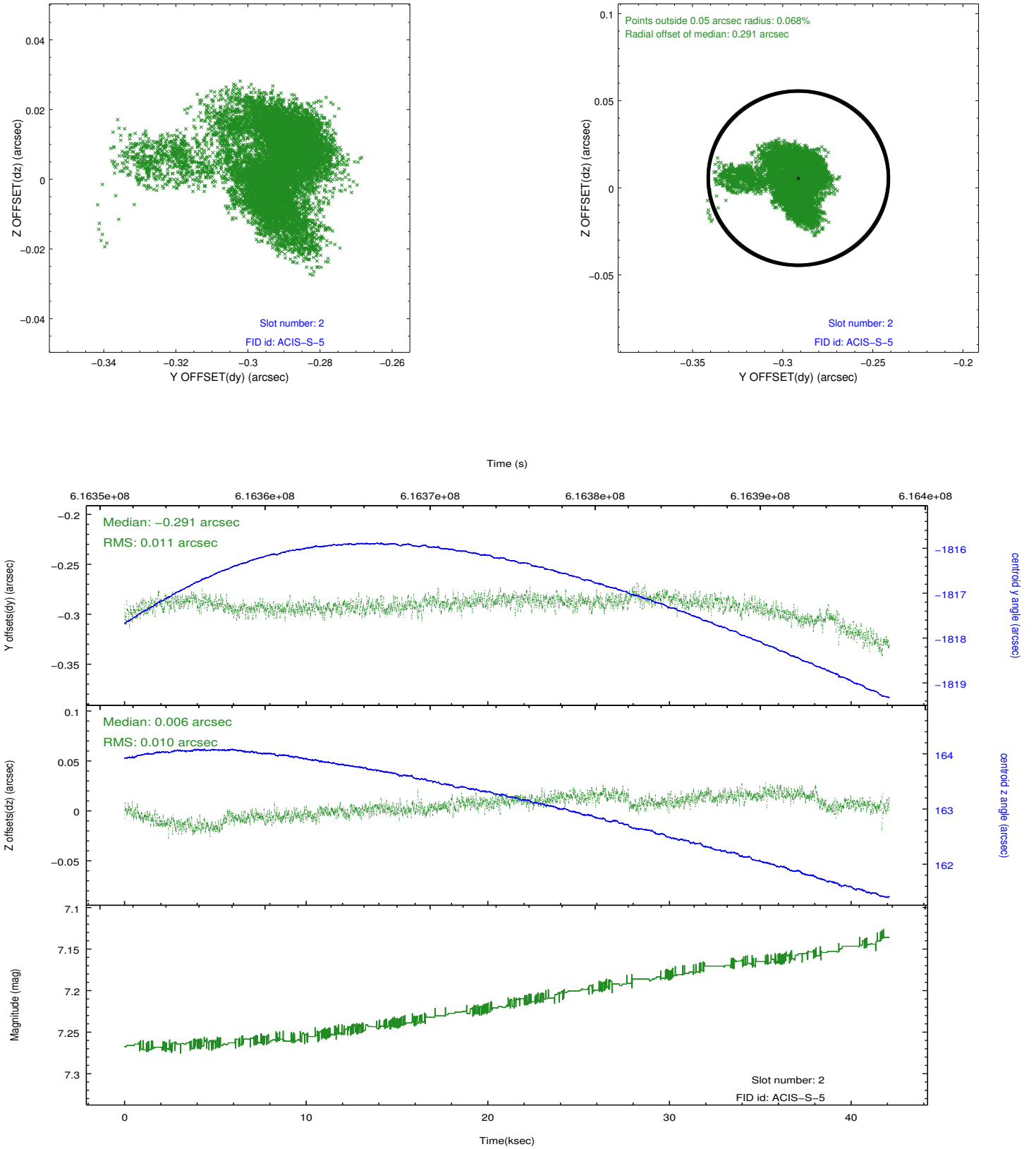
2.5.1 Slot 0



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)	2017.07.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	42.04840032351

A.2 Comments

Joint proposal with XMM.