

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 13731 - L2 Version 1
Chandra X-Ray Center

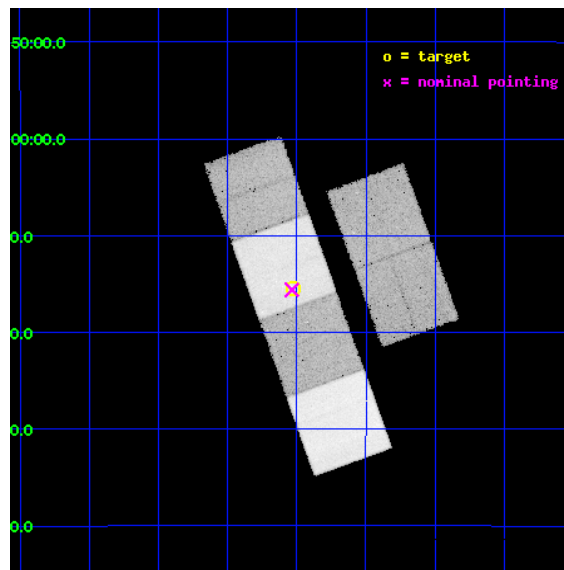
L2 Processing Date : Jul 8 2012

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1 Front

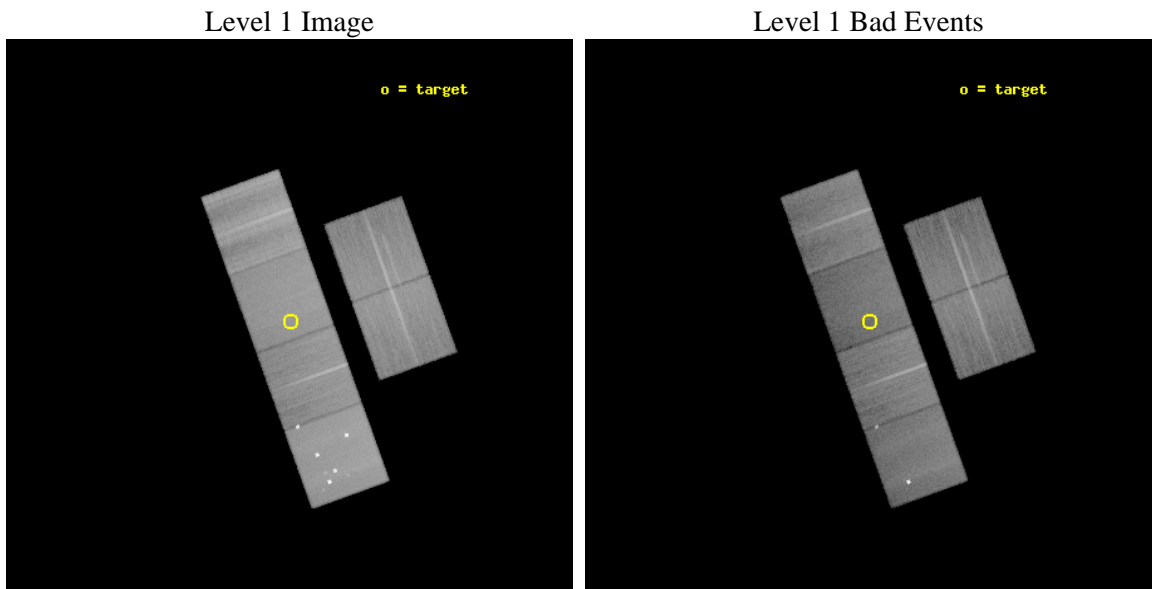
seq_num	401416	Sequence number
obs_id	13731	Observation id
title	The shortest orbital period black-hole X-ray binary in quiescence	
observer	Dr Jeroen Homan	Principal investigator
object	MAXI J1659-152	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	254.757083	Observer's specified target RA [deg]
dec_targ	-15.257889	Observer's specified target Dec [deg]
ra_nom	254.75899456975	Nominal RA [deg]
dec_nom	-15.260266776603	Nominal Dec [deg]
roll_nom	250.15713346378	Nominal Roll [deg]
revision	1	Processing version of data
ontime	39925.310954392	Sum of GTIs [s]
livetime	39419.752626951	Livetime [s]
ontime2	39922.110923886	Sum of GTIs [s]
ontime3	39921.946774125	Sum of GTIs [s]
ontime5	39925.269914389	Sum of GTIs [s]
ontime6	39921.987814188	Sum of GTIs [s]
ontime7	39925.310954392	Sum of GTIs [s]
ontime8	39925.146794379	Sum of GTIs [s]
l2events	429224	Number of level 2 events



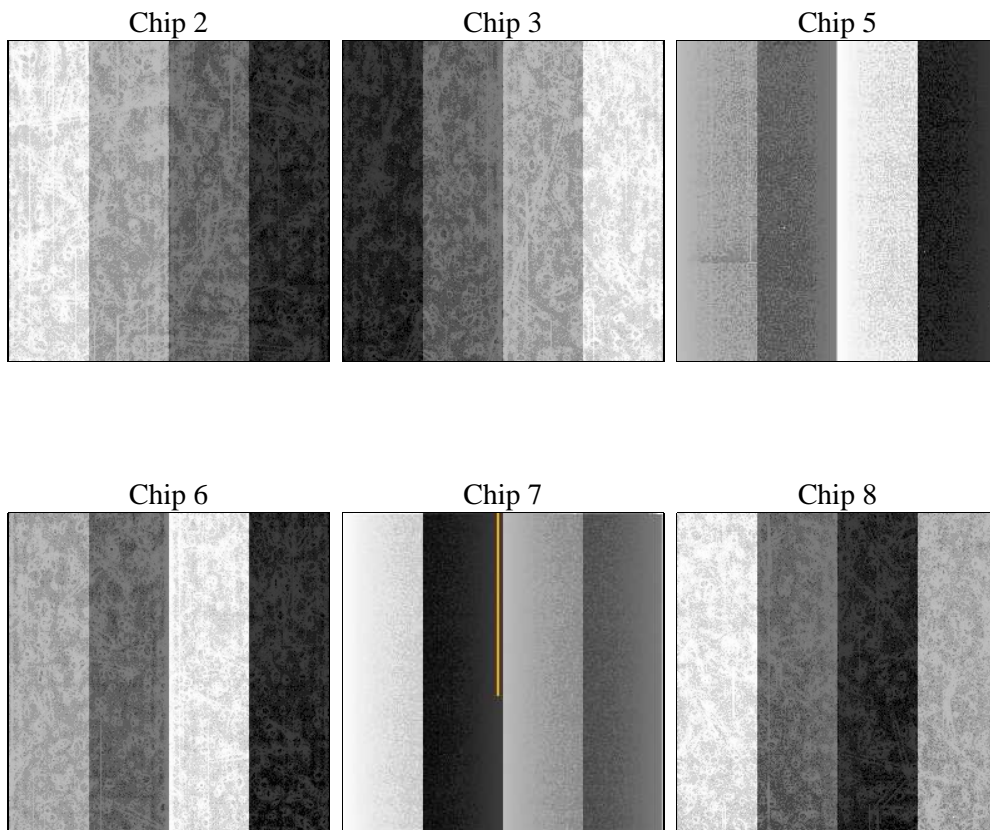
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	39965.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	39925.310954392	Sum of GTIs [s]
caldbver	4.5.0	 	ontime2	39922.110923886	Sum of GTIs [s]
date	2012-07-08T14:32:15	Date and time of file creation	ontime3	39921.946774125	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	39925.269914389	Sum of GTIs [s]
			ontime6	39921.987814188	Sum of GTIs [s]
			ontime7	39925.310954392	Sum of GTIs [s]
			ontime8	39925.146794379	Sum of GTIs [s]
			l1events	1884011	Number of level 1 events

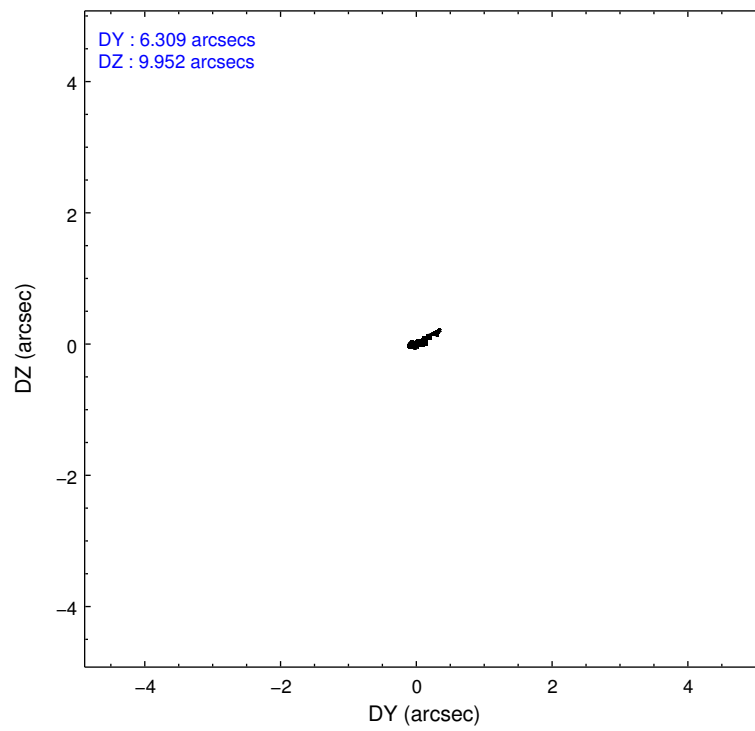
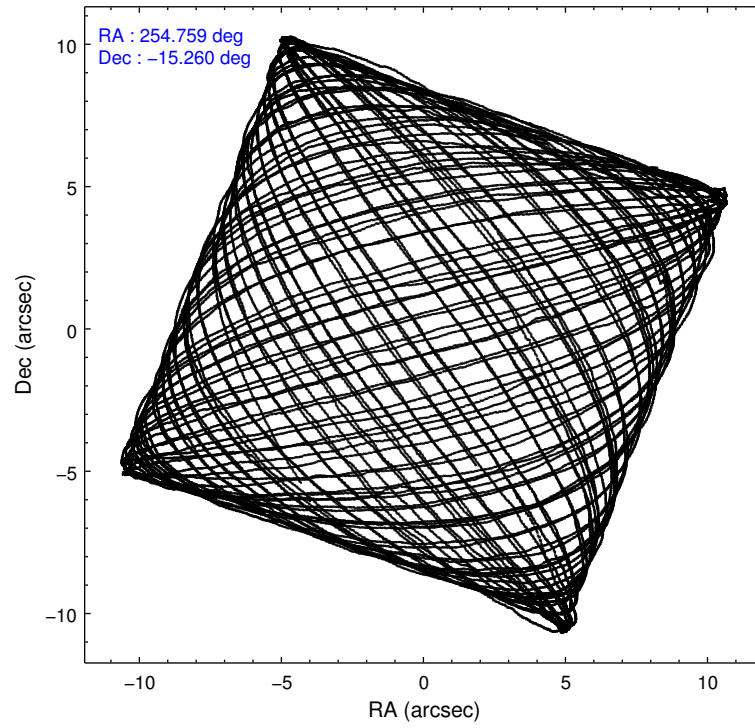
2.1.4 Events

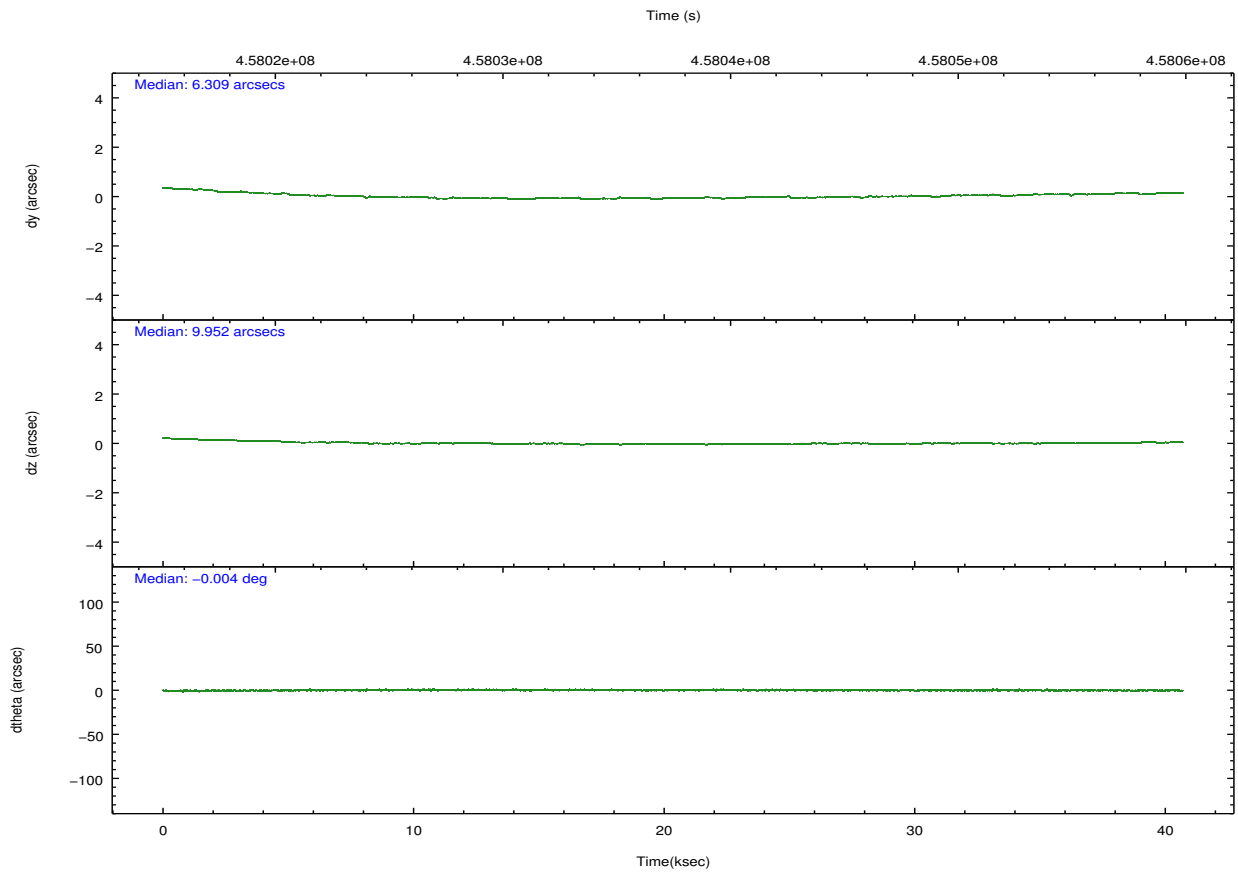
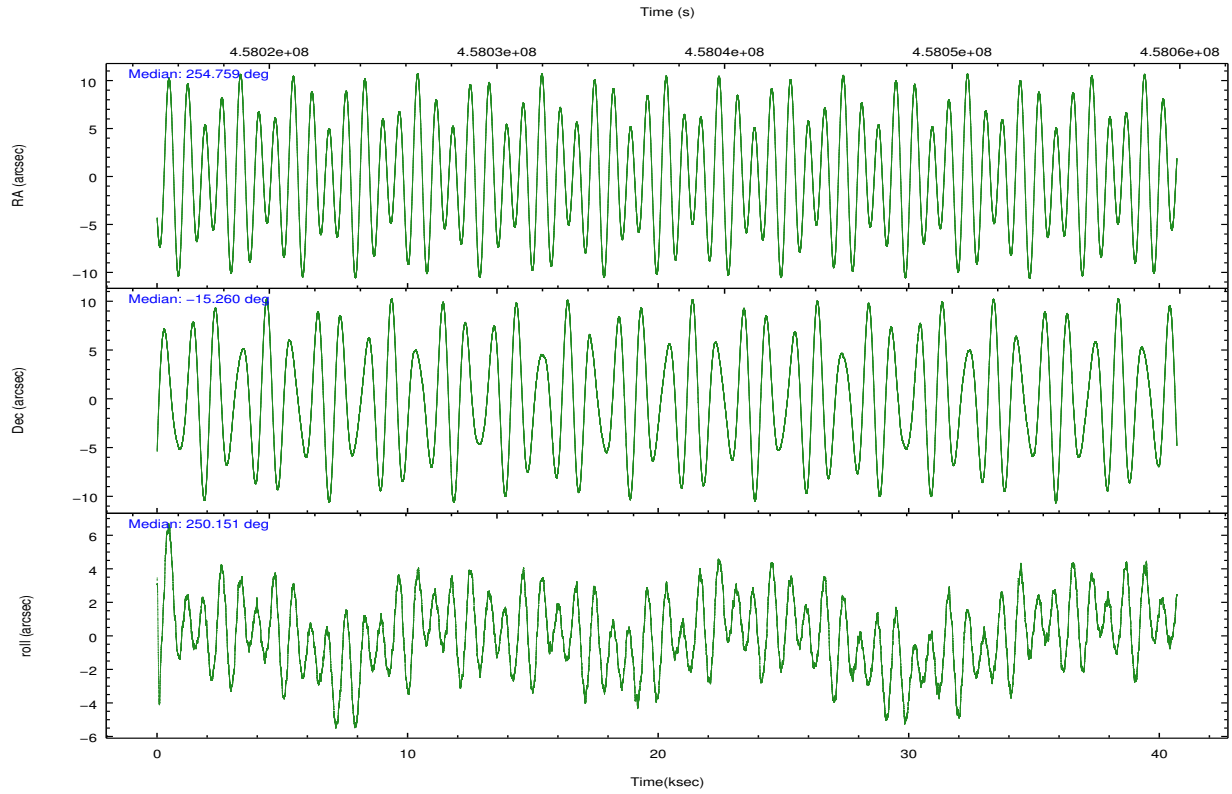
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	265175	247382	431718	266334	310373	363029	grade 0 events	11880	11402	45829	12415	13770	37386
rejected events	234959	218165	203787	233450	165734	240718		4%	4%	10%	4%	4%	10%
rejected %	88%	88%	47%	87%	53%	66%	grade 1 events	158	143	1017	142	339	372
								0%	0%	0%	0%	0%	0%
							grade 2 events	6959	6079	62863	7322	30479	25944
								2%	2%	14%	2%	9%	7%
							grade 3 events	2801	2939	9412	3036	12125	14633
								1%	1%	2%	1%	3%	4%
							grade 4 events	2910	2817	7380	2897	12102	13471
								1%	1%	1%	1%	3%	3%
							grade 5 events	9280	10795	30901	10778	30086	16354
								3%	4%	7%	4%	9%	4%
							grade 6 events	5672	5983	102465	7215	76169	30910
								2%	2%	23%	2%	24%	8%
							grade 7 events	225515	207224	171851	222529	135303	223959
								85%	83%	39%	83%	43%	61%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	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	254.753618	254.7589945697477	CCD I2 on	Y	Y
[deg] Pointing Dec	-15.233437	-15.26026677660312	CCD I3 on	Y	Y
[deg] Pointing Roll	249.999089	250.1571334637822	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	O1	Y
[s] Observation start time (MET)	458017860.184000	458016623.07955	CCD S5 on	N	N
Observation start date	2012-07-07T03:09:53	2012-07-07T02:50:23	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	458057825.184000	458058527.64429	On-chip summing requested	N	N
Observation end date	2012-07-07T14:15:58	2012-07-07T14:28:47	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



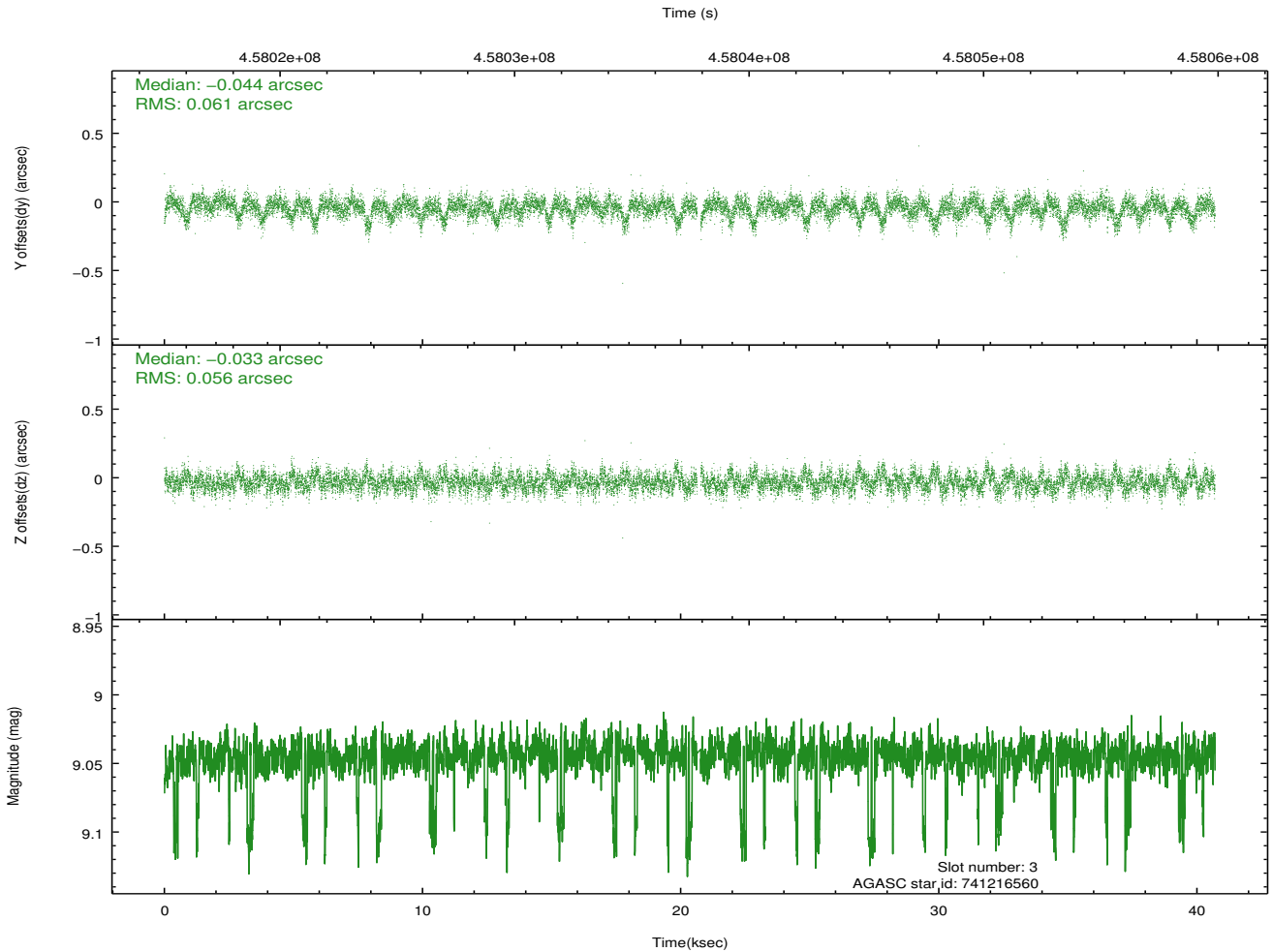
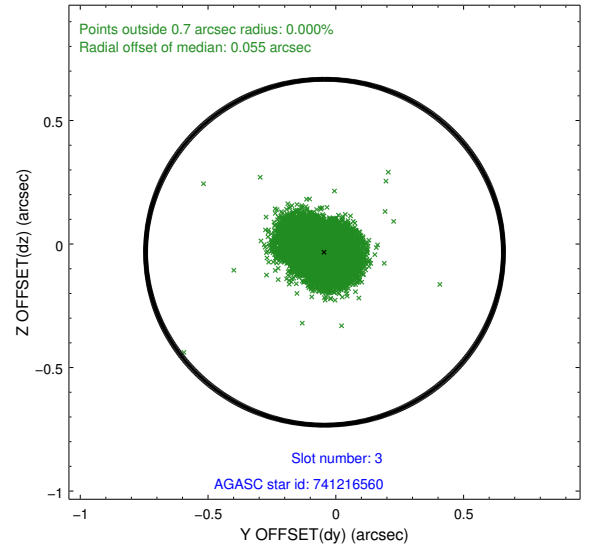
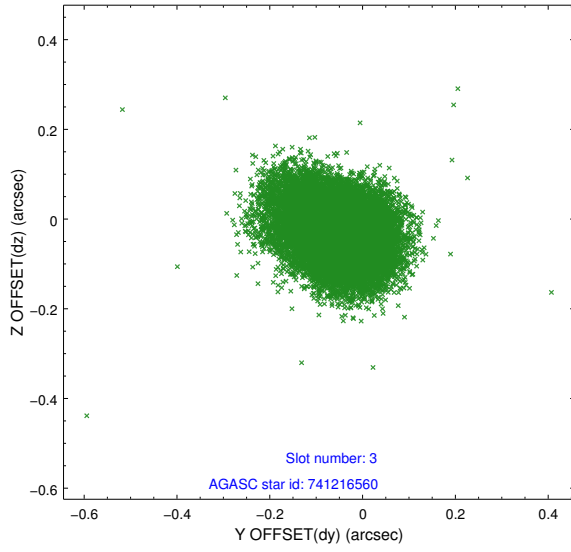


Slot Statistics

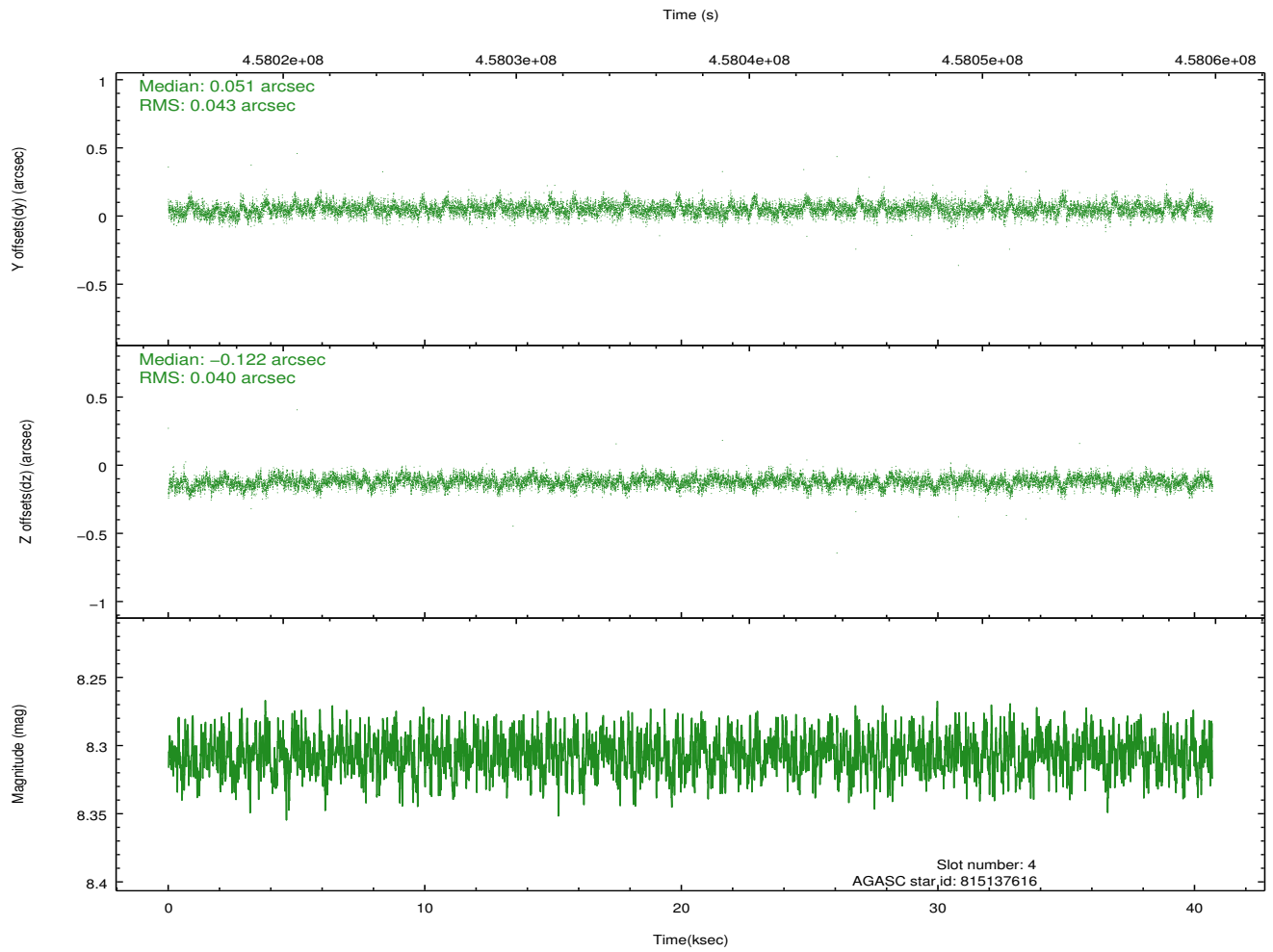
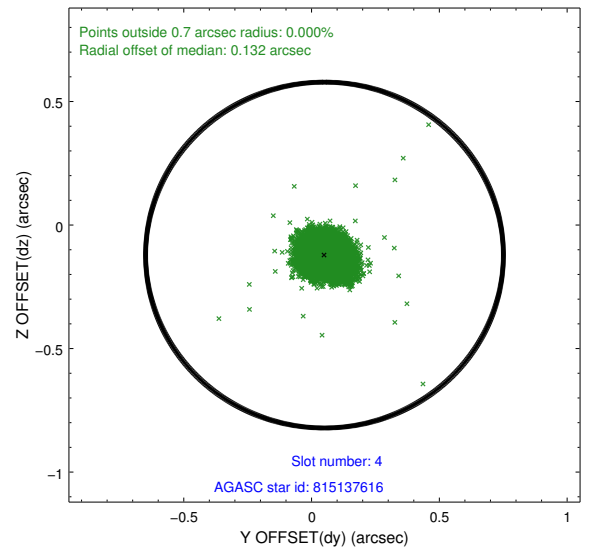
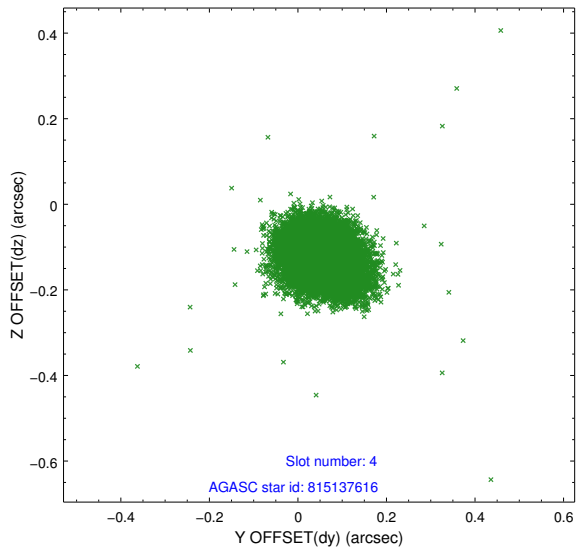
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.04	9927	-0.094	-0.062	0.007	0.014	0.000000	0.000000	-759.16	-1731.22
1	FID	ACIS-S-4	7.13	9923	0.224	0.062	0.007	0.016	0.000000	0.000000	2154.43	177.38
2	FID	ACIS-S-5	7.16	9927	-0.161	0.009	0.007	0.014	0.000000	0.000000	-1812.05	171.00
3	GUIDE	741216560	9.05	19747	-0.044	-0.033	0.086	0.147	254.839054	-14.734715	-1788.60	-334.53
4	GUIDE	815137616	8.31	19846	0.051	-0.122	0.061	0.102	254.741671	-15.811997	1972.45	673.90
5	GUIDE	815138504	7.71	19849	0.004	0.011	0.067	0.110	254.066938	-15.357519	1239.31	-2085.52
6	GUIDE	815138728	6.73	19851	-0.104	0.204	0.047	0.079	254.111345	-15.485495	1618.57	-1781.90
7	GUIDE	815140808	8.49	19849	0.097	-0.060	0.075	0.119	254.749682	-15.027918	-689.74	-264.52

2.4 Star Slots

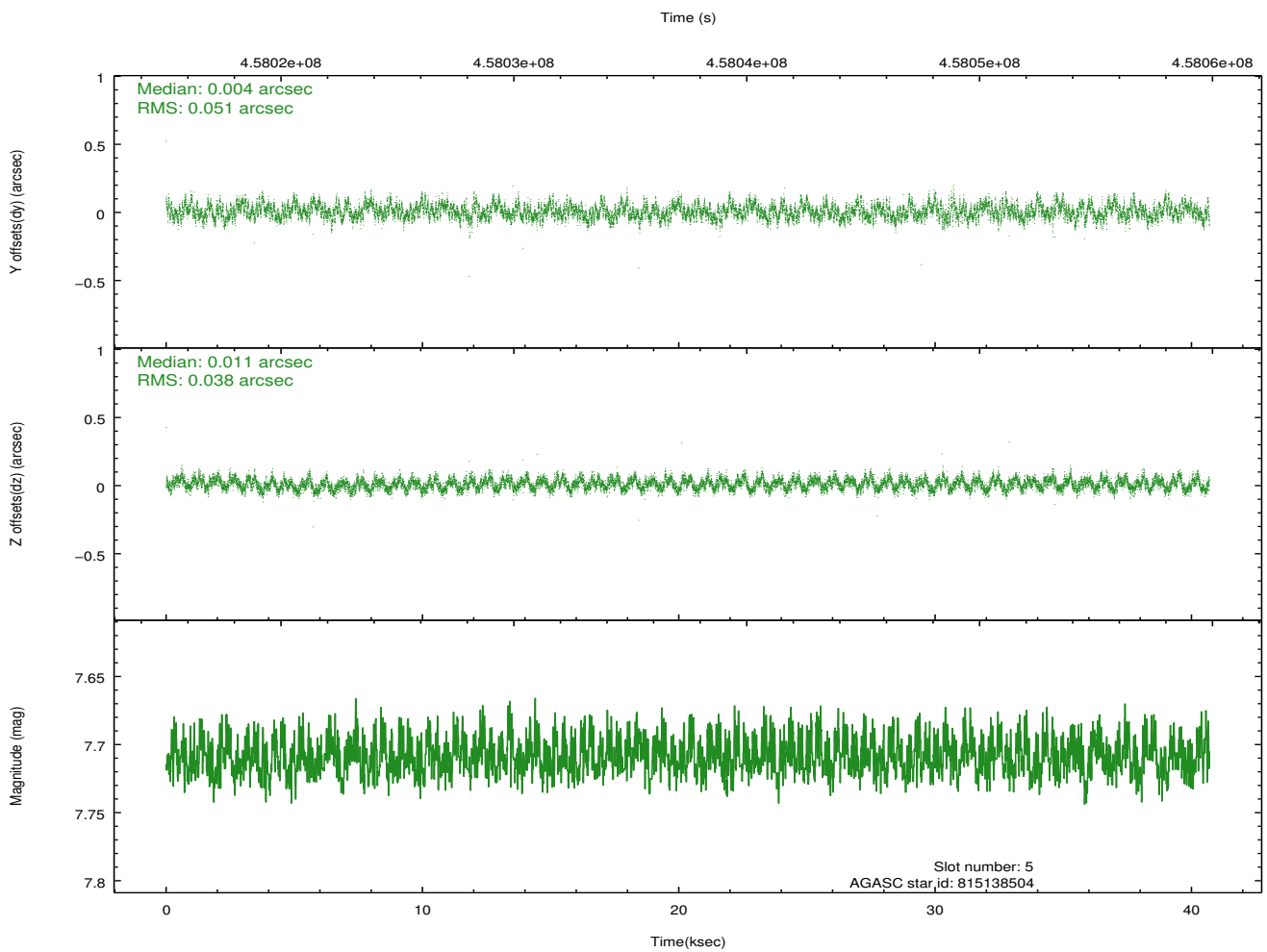
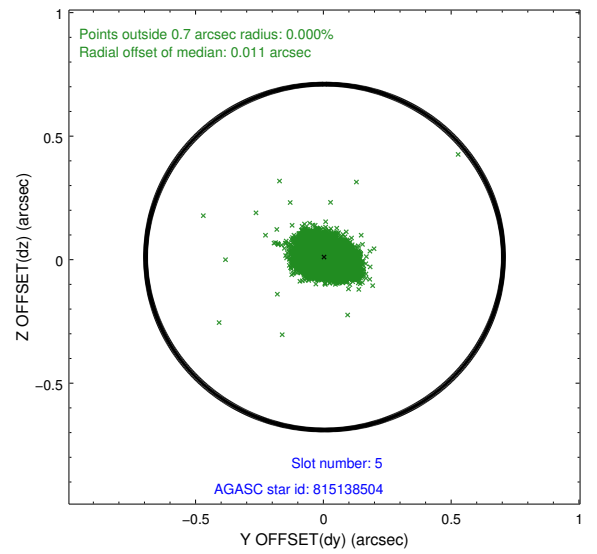
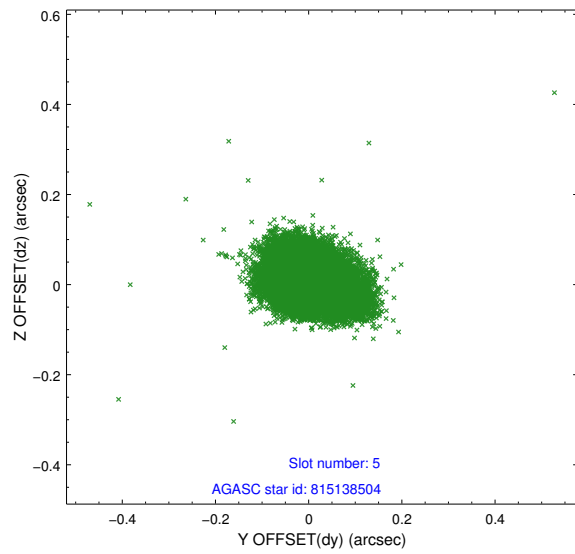
2.4.1 Slot 3



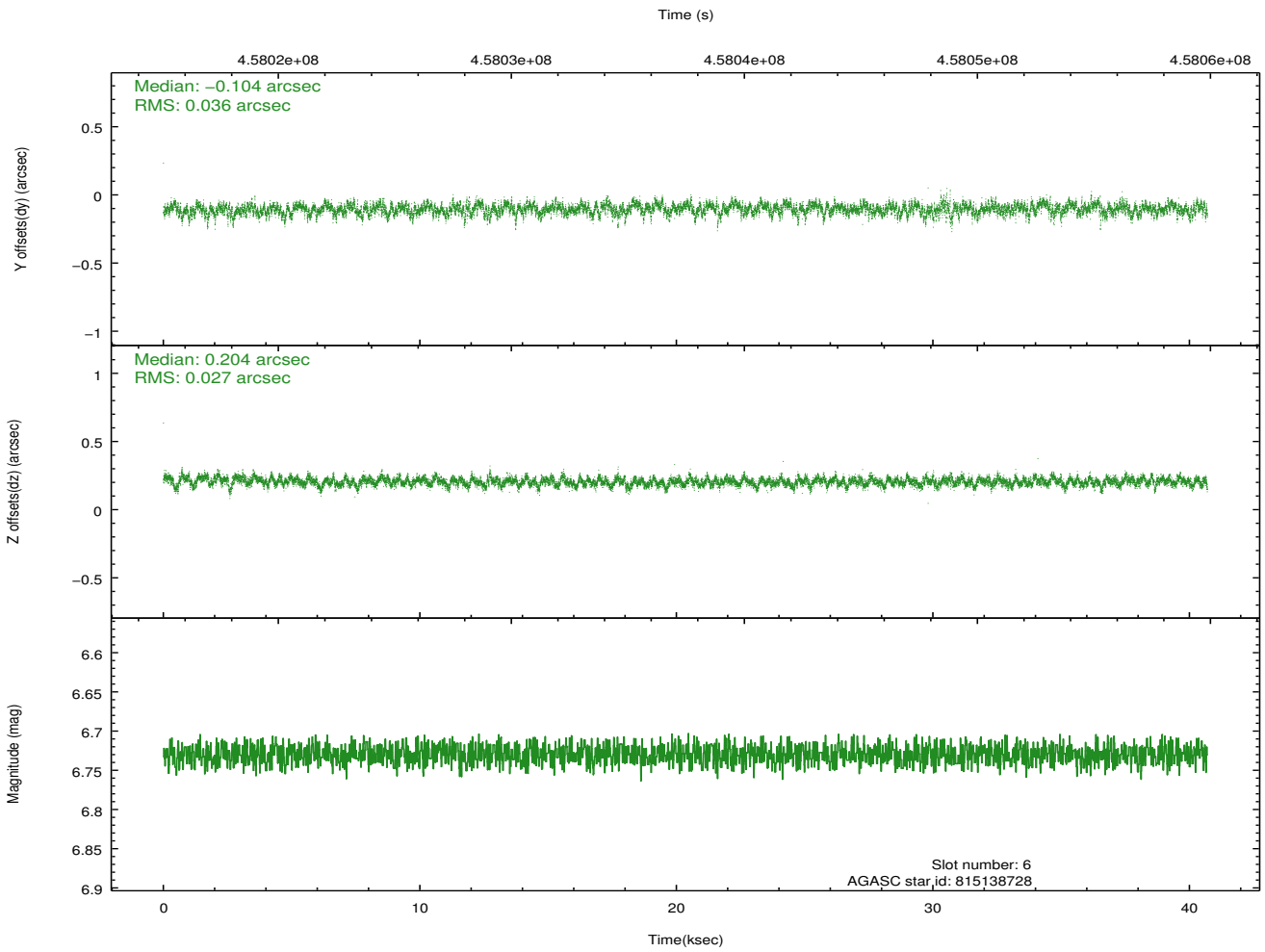
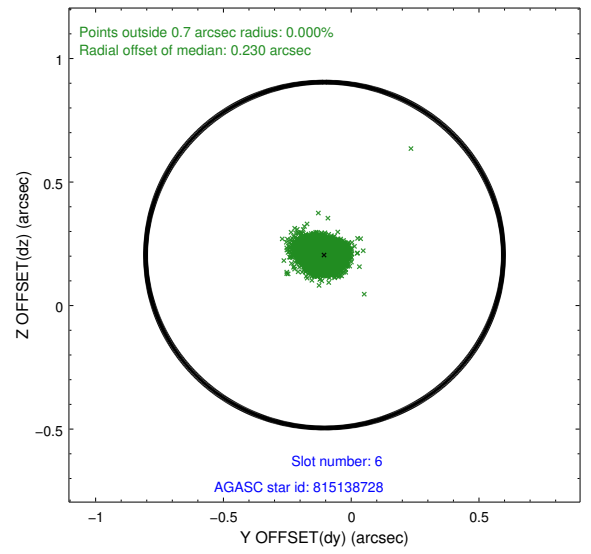
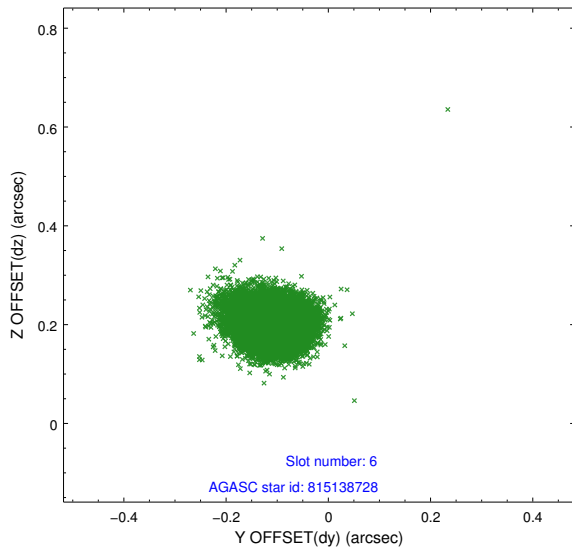
2.4.2 Slot 4



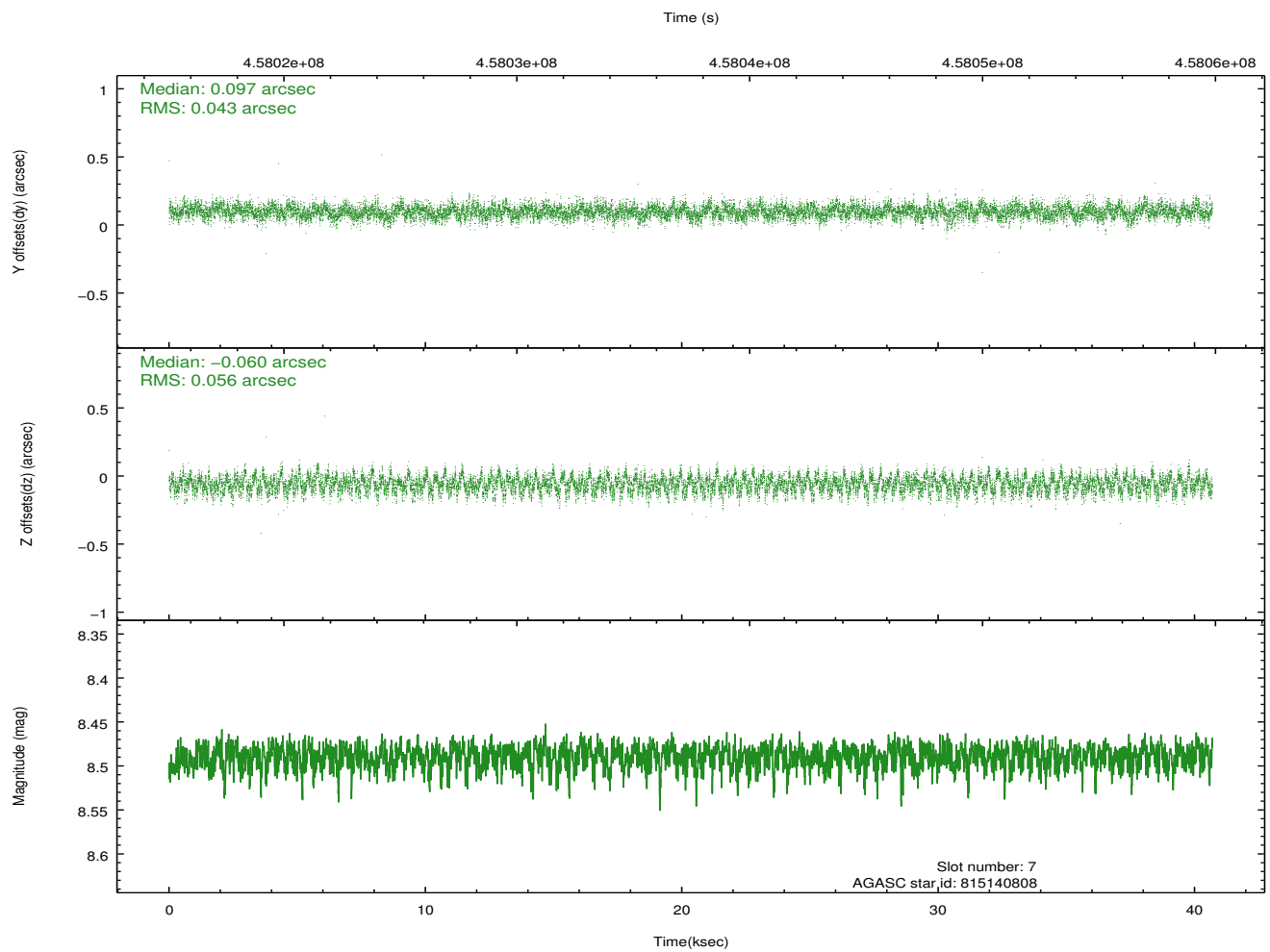
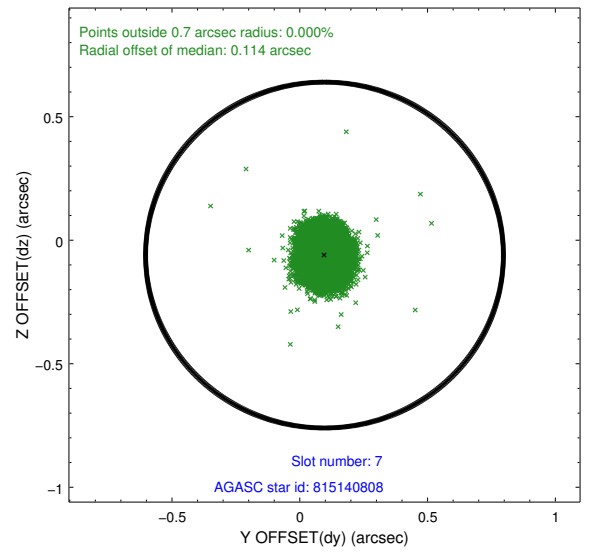
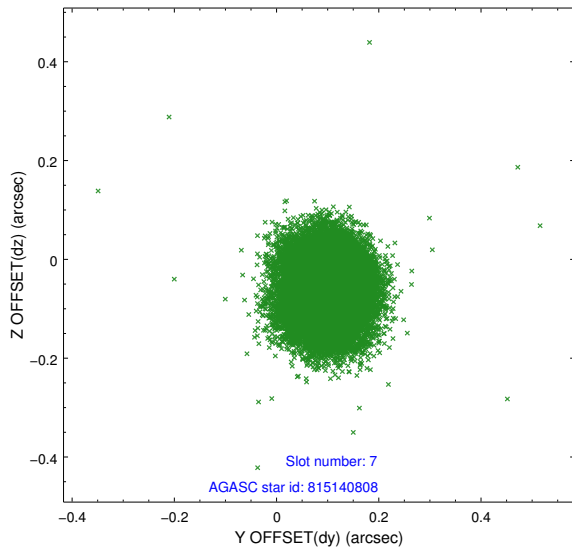
2.4.3 Slot 5



2.4.4 Slot 6

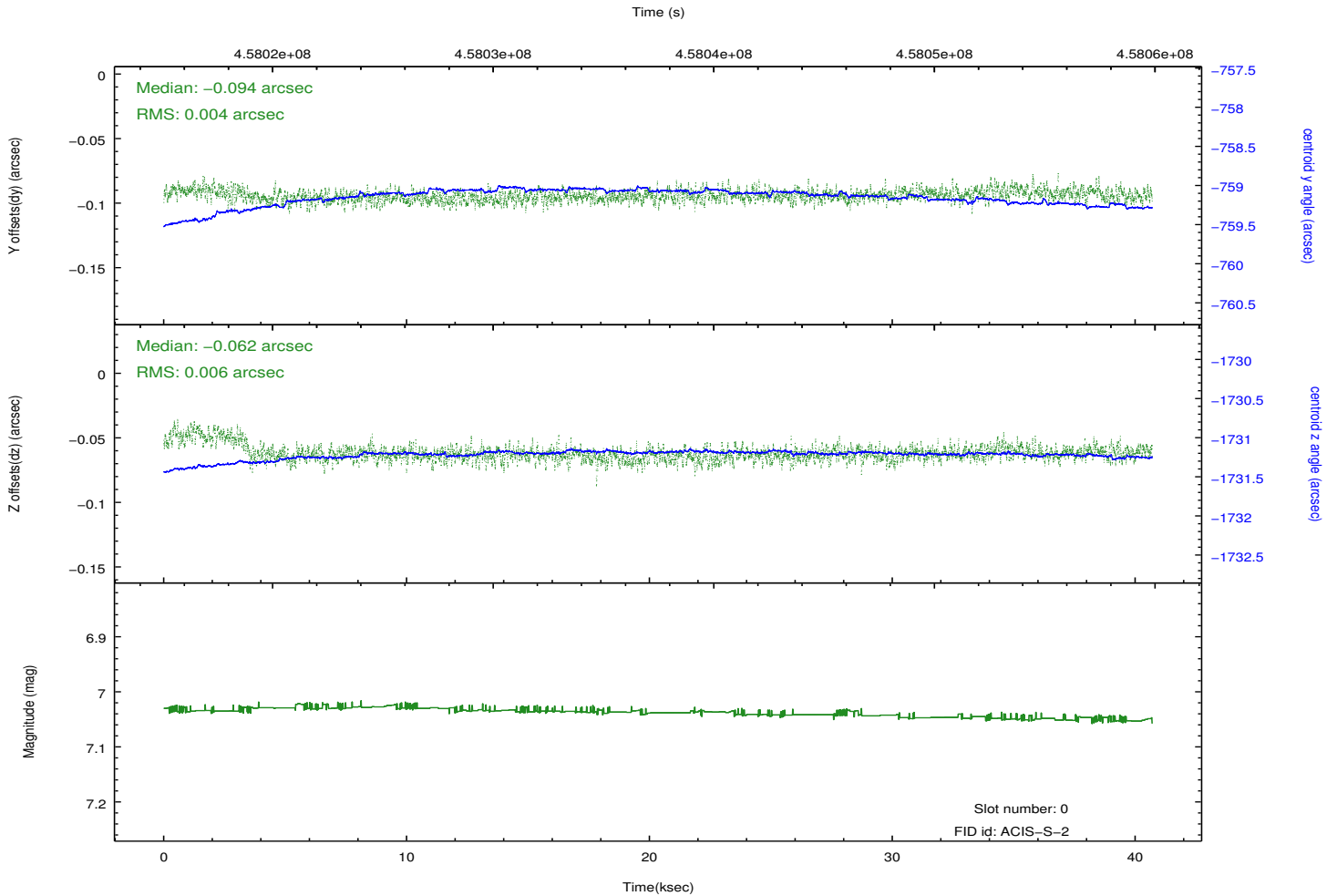
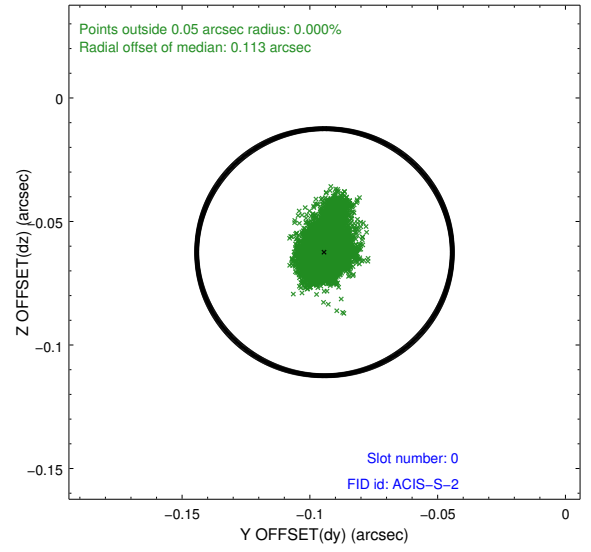
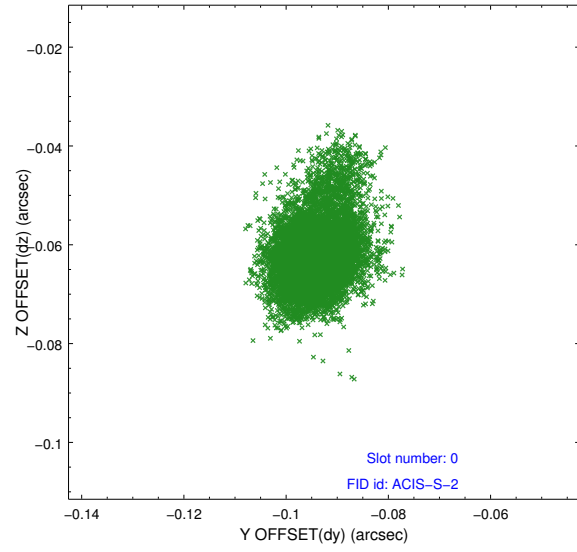


2.4.5 Slot 7

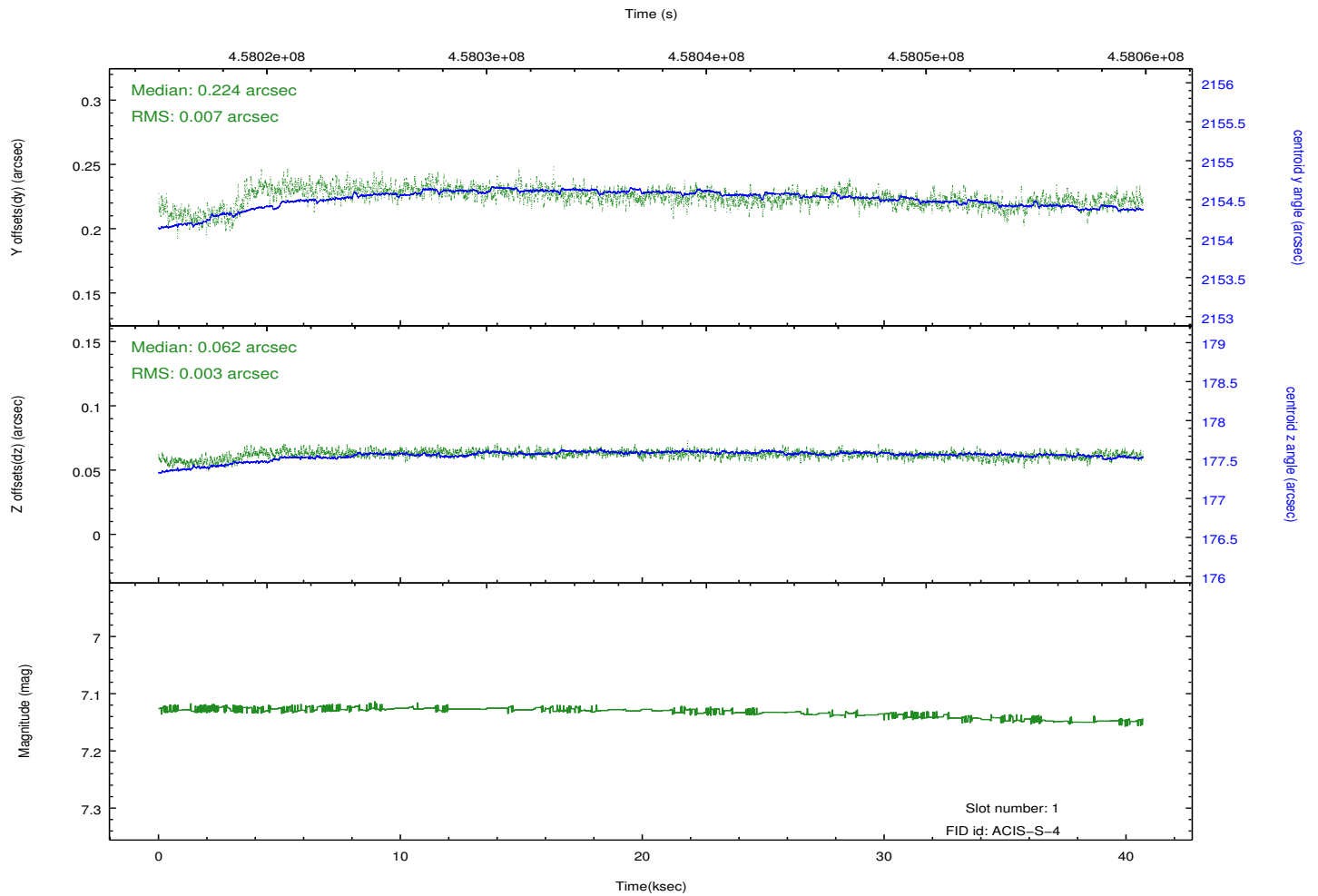
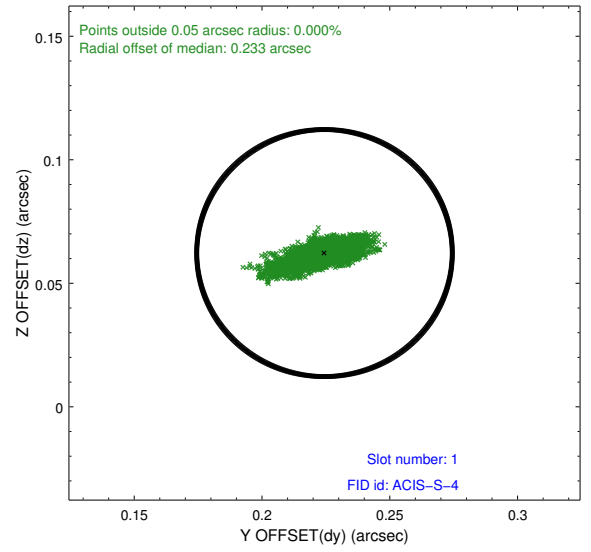
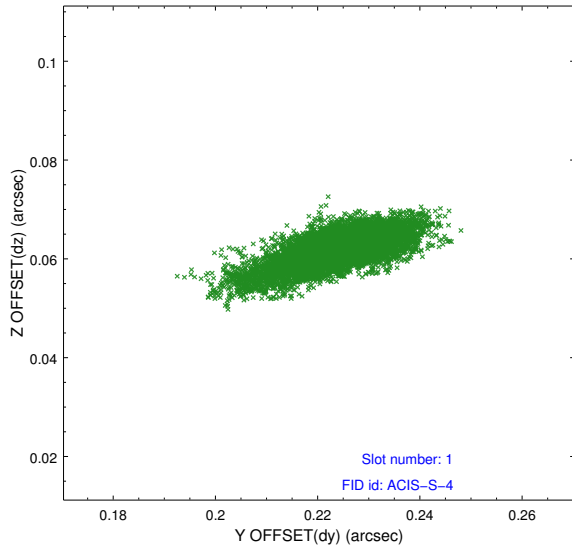


2.5 FID Slots

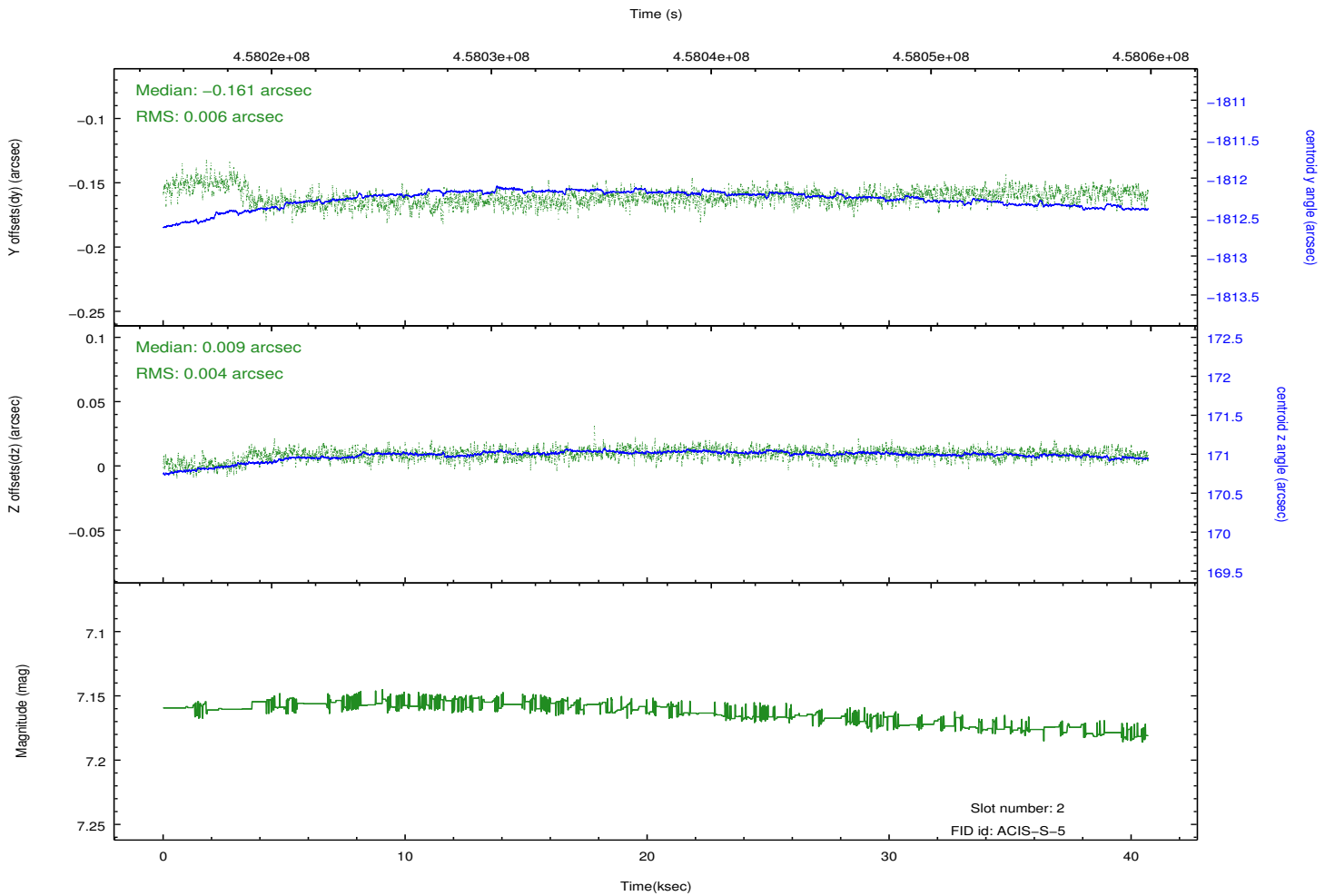
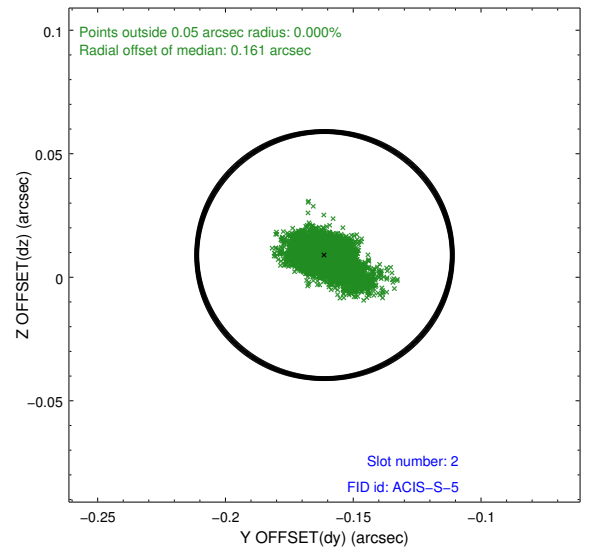
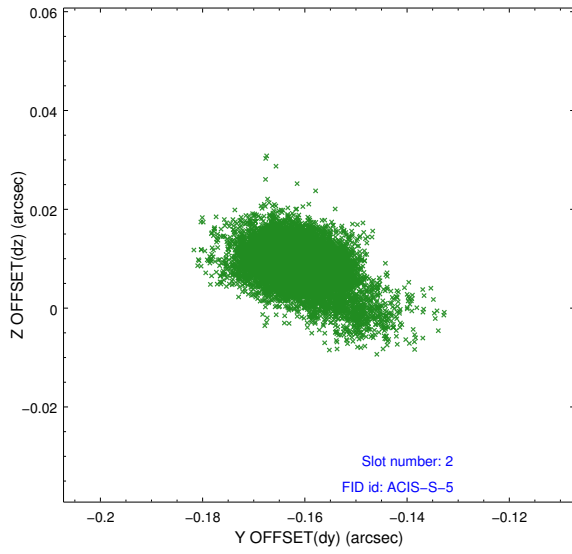
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.07.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	39.925310954392

A.2 Comments

Window constraint met.