

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 10151 - L2 Version 2
Chandra X-Ray Center

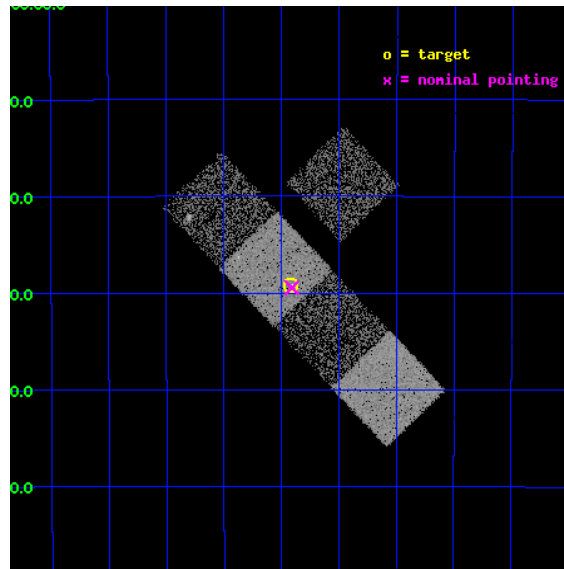
L2 Processing Date : Jun 8 2012

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

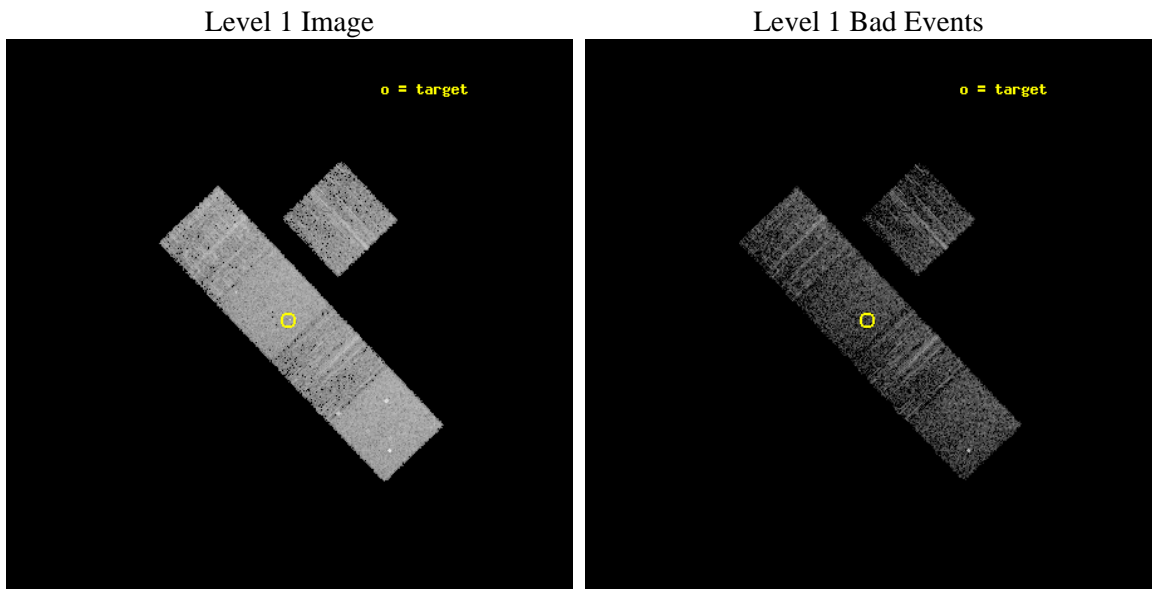
seq_num	501078	Sequence number
obs_id	10151	Observation id
title	Identifying the Nearest and Brightest Neutron Stars	Proposal title
observer	Prof. Derek Fox	Principal investigator
object	1RXSJ082124.5-362848	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	125.35375	Observer's specified target RA [deg]
dec_targ	-36.486389	Observer's specified target Dec [deg]
ra_nom	125.35235282211	Nominal RA [deg]
dec_nom	-36.49121103132	Nominal Dec [deg]
roll_nom	226.33430220874	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2145.113509059	Sum of GTIs [s]
livetime	2117.0860218535	Livetime [s]
ontime3	2141.8493988514	Sum of GTIs [s]
ontime5	2145.0724690557	Sum of GTIs [s]
ontime6	2145.0314290524	Sum of GTIs [s]
ontime7	2145.113509059	Sum of GTIs [s]
ontime8	2144.9493490458	Sum of GTIs [s]
l2events	36361	Number of level 2 events



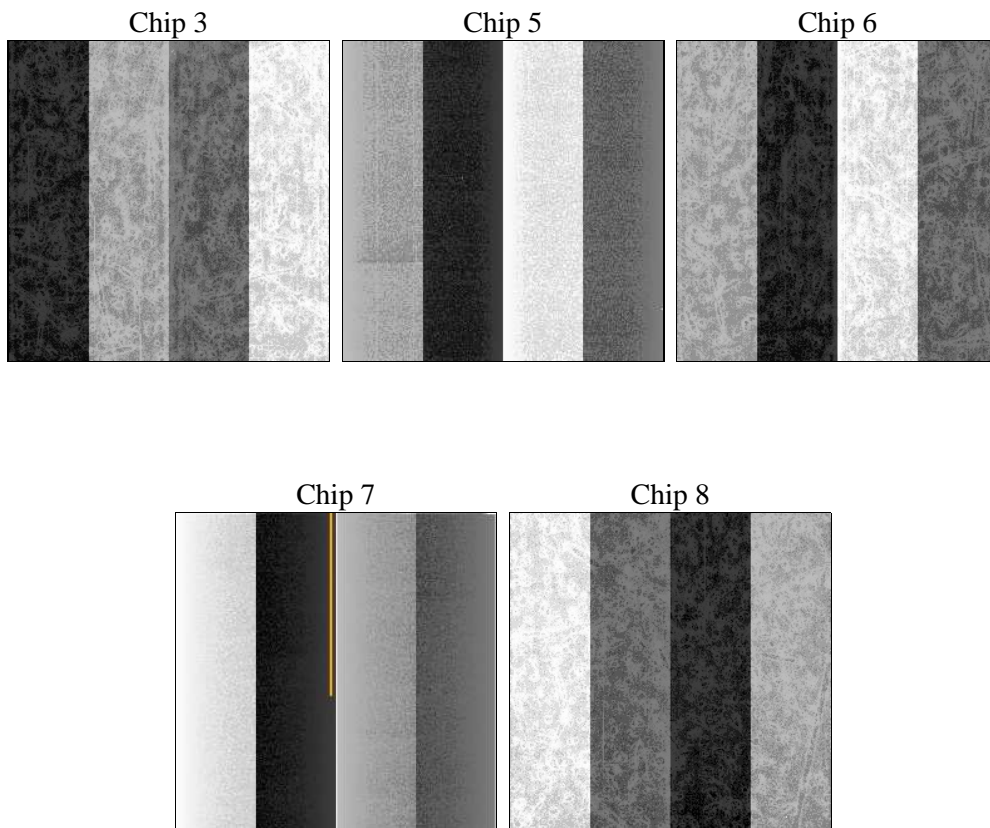
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	2145.113509059	Sum of GTIs [s]
caldbver	4.4.10	 	ontime3	2141.8493988514	Sum of GTIs [s]
date	2012-06-08T19:19:59	Date and time of file creation	ontime5	2145.0724690557	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	2145.0314290524	Sum of GTIs [s]
			ontime7	2145.113509059	Sum of GTIs [s]
			ontime8	2144.9493490458	Sum of GTIs [s]
			l1events	142143	Number of level 1 events

2.1.4 Events

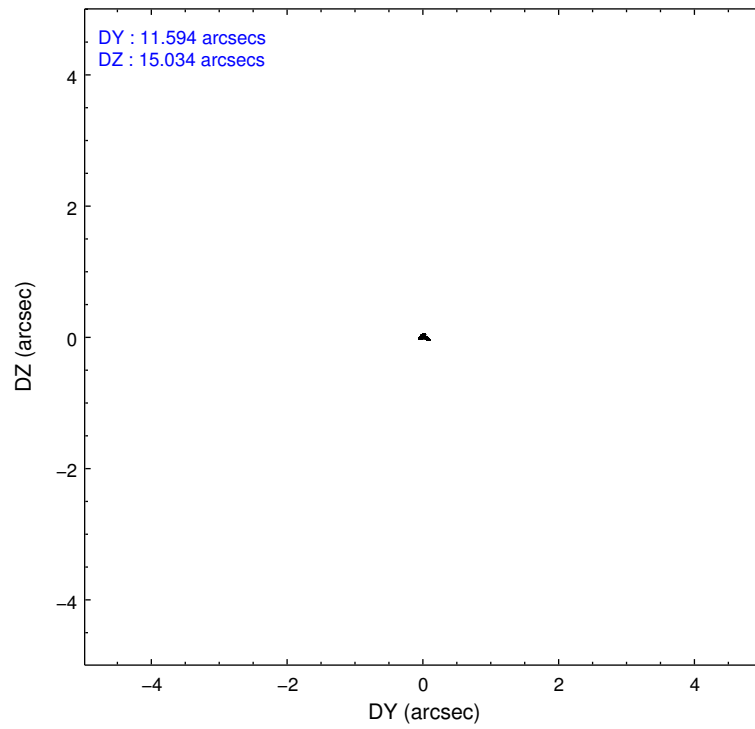
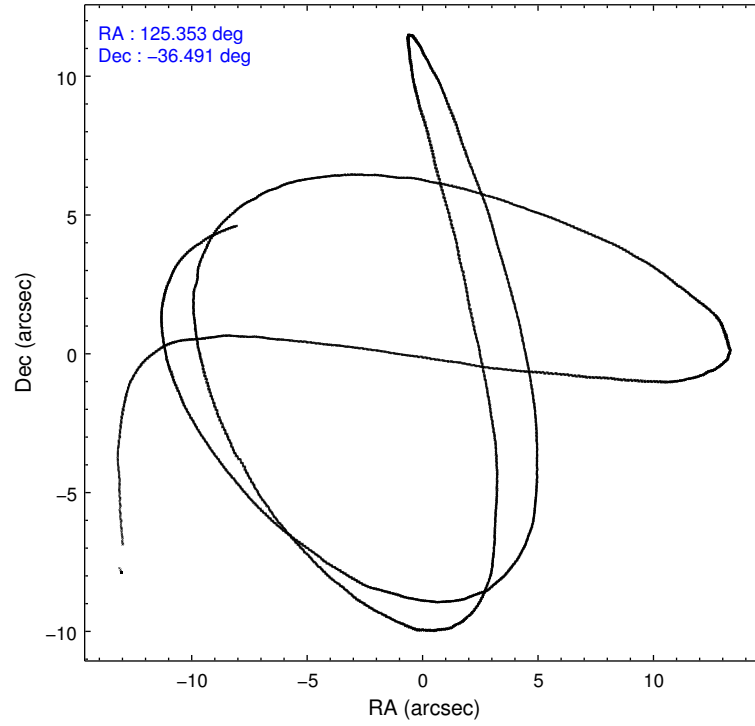
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	21190	36461	23278	32009	29205
rejected events	18351	19703	20472	18538	22011
rejected %	86%	54%	87%	57%	75%

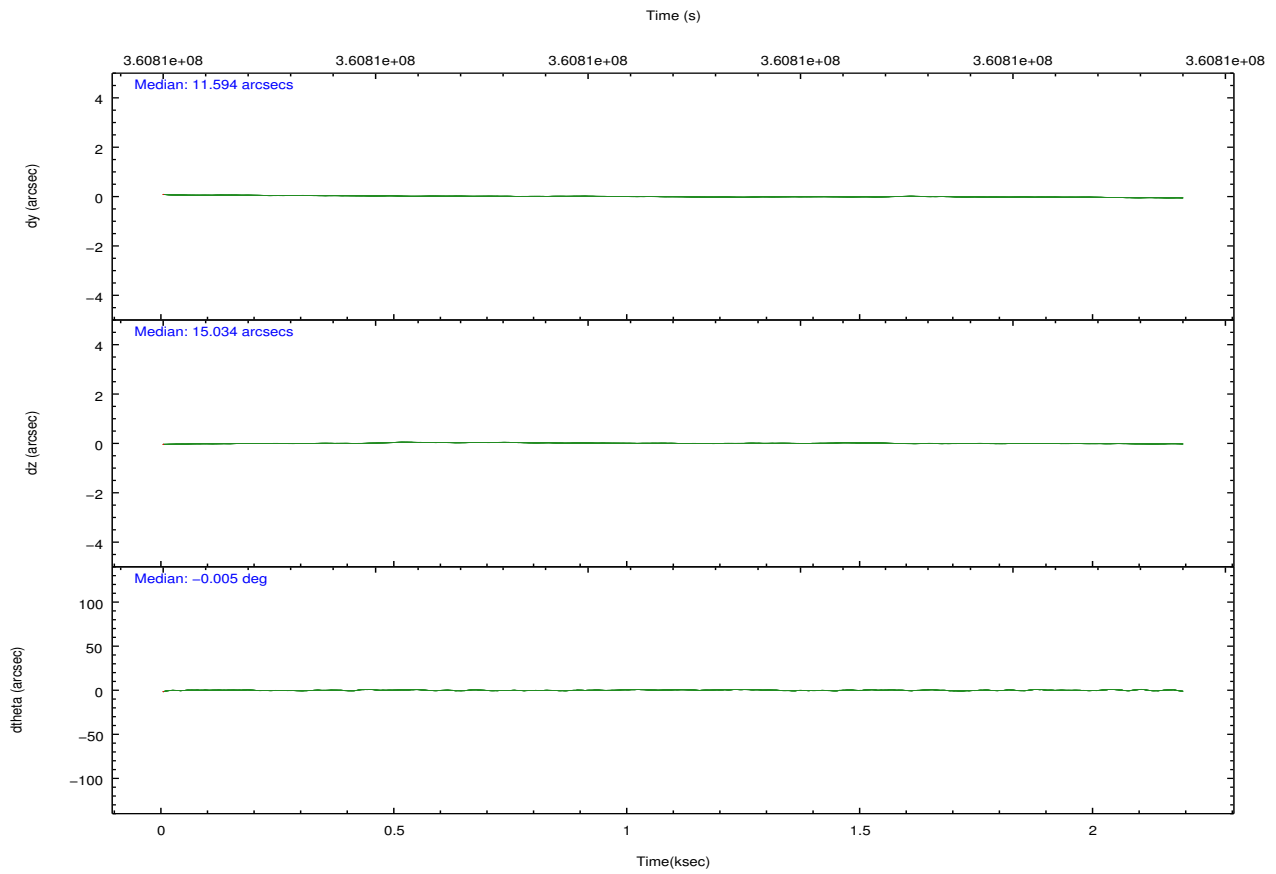
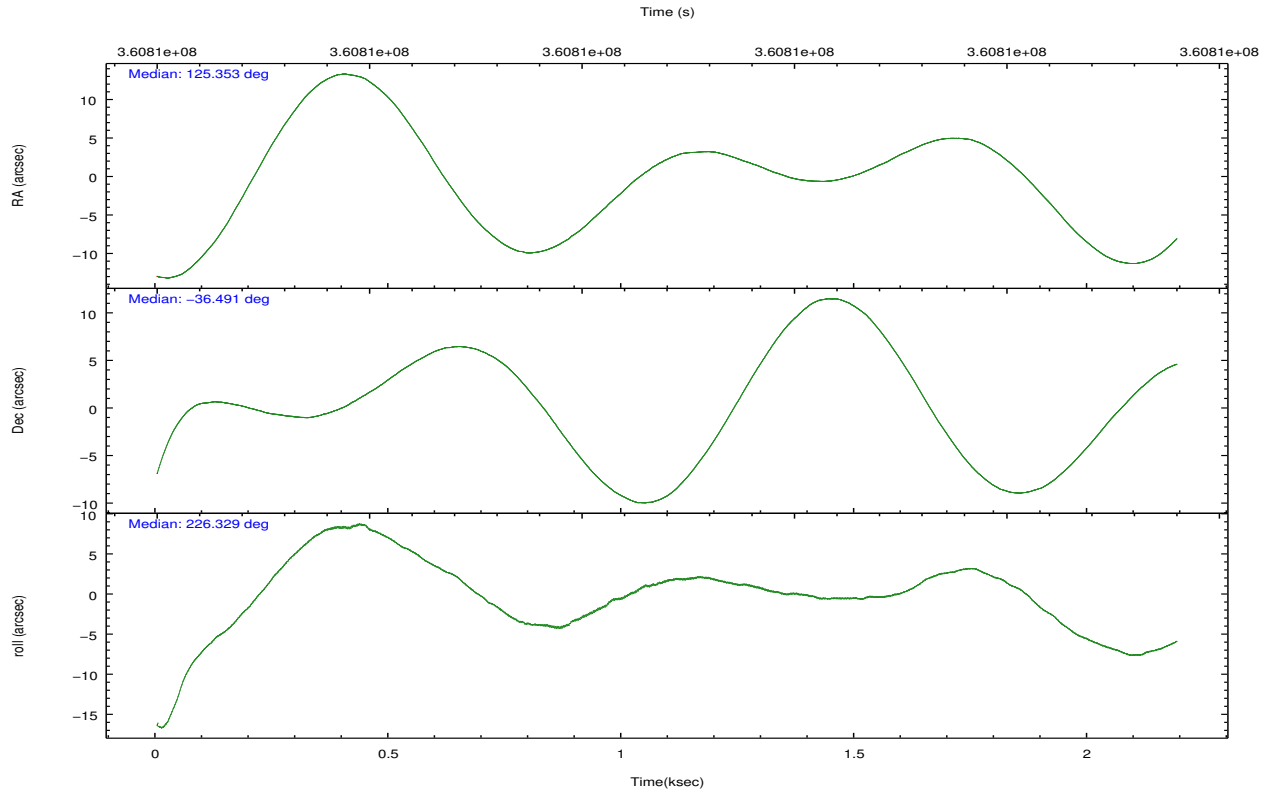
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	1231	1689	1072	1206	2222
	5%	4%	4%	3%	7%
grade 1 events	12	64	8	39	28
	0%	0%	0%	0%	0%
grade 2 events	553	5264	627	2823	1691
	2%	14%	2%	8%	5%
grade 3 events	311	634	249	1116	679
	1%	1%	1%	3%	2%
grade 4 events	257	557	275	1088	670
	1%	1%	1%	3%	2%
grade 5 events	1052	2639	1102	2917	1428
	4%	7%	4%	9%	4%
grade 6 events	491	8640	587	7255	1934
	2%	23%	2%	22%	6%
grade 7 events	17283	16974	19358	15565	20553
	81%	46%	83%	48%	70%

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	125.360074	125.3523528221129	CCD I2 on	N	N
[deg] Pointing Dec	-36.464470	-36.49121103132011	CCD I3 on	Y	Y
[deg] Pointing Roll	226.182319	226.3343022087365	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	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)	360812290.184000	360811306.37612	CCD S5 on	N	N
Observation start date	2009-06-08T01:37:04	2009-06-08T01:21:46	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	360814290.184000	360815238.78882	On-chip summing requested	N	N
Observation end date	2009-06-08T02:10:24	2009-06-08T02:27:18	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



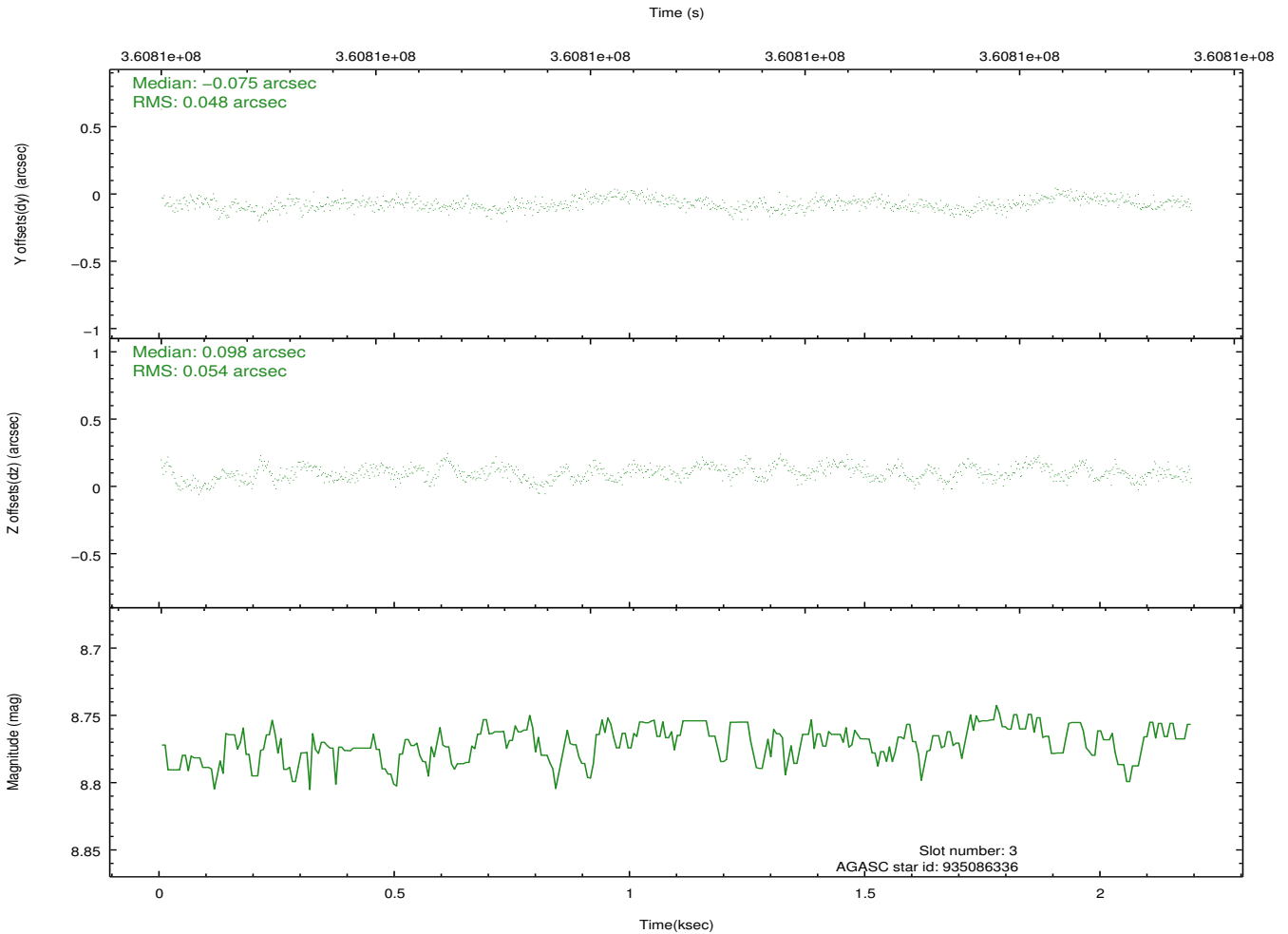
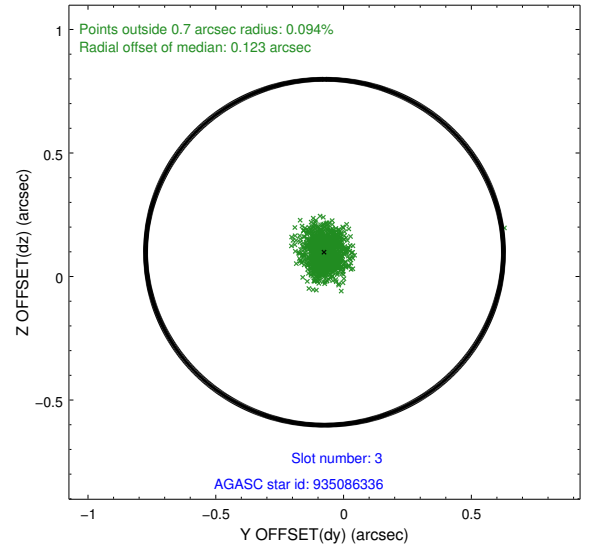
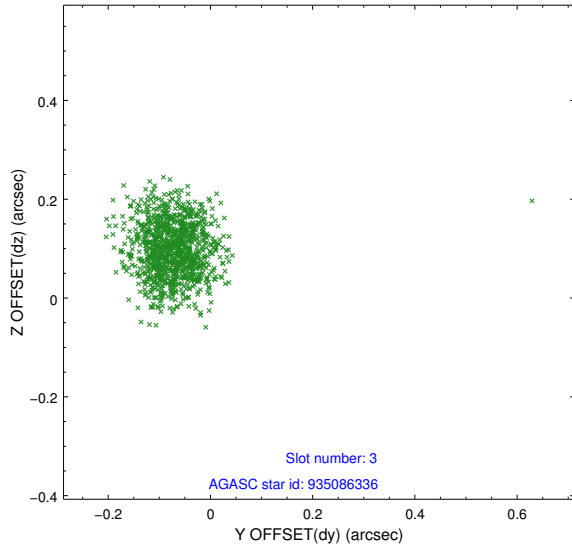


Slot Statistics

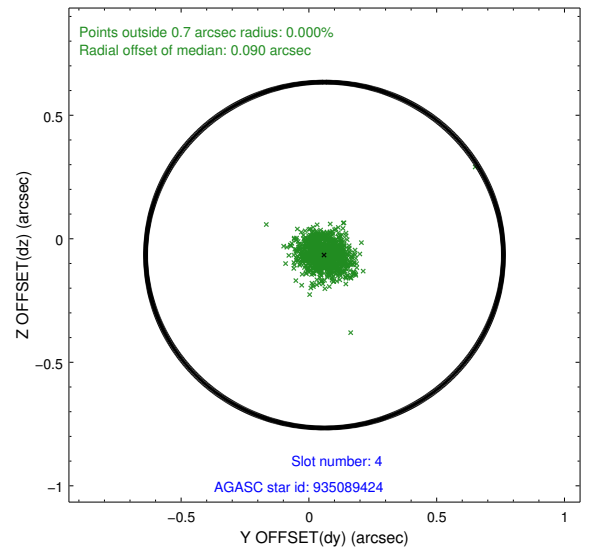
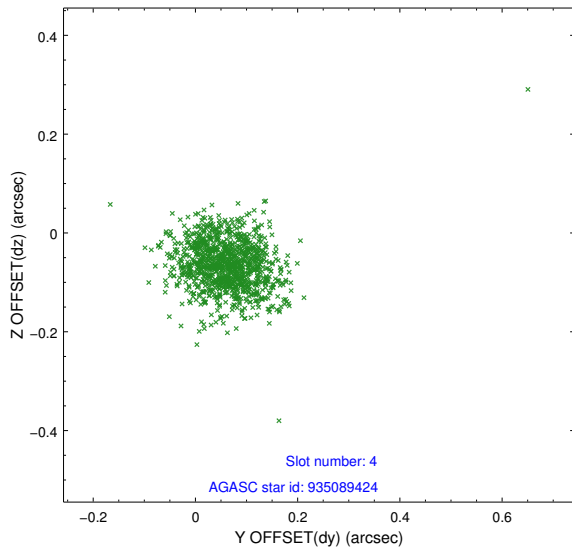
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.85	535	-0.039	0.004	0.006	0.009	0.000000	0.000000	-764.49	-1736.38
1	FID	ACIS-S-4	6.95	535	0.098	0.018	0.004	0.008	0.000000	0.000000	2147.54	169.08
2	FID	ACIS-S-5	6.97	535	-0.090	-0.013	0.006	0.011	0.000000	0.000000	-1813.59	166.04
3	GUIDE	935086336	8.77	1068	-0.075	0.098	0.074	0.119	125.247530	-35.787066	-1532.15	-1925.14
4	GUIDE	935089424	8.96	1069	0.061	-0.066	0.075	0.124	124.608681	-36.614495	1897.51	-1188.32
5	GUIDE	935091272	8.02	1069	0.201	0.040	0.073	0.113	124.993483	-36.611188	1117.69	-398.02
6	GUIDE	936782792	7.97	1069	-0.018	0.001	0.100	0.153	126.003502	-36.716124	-626.92	1971.15
7	GUIDE	935085760	8.97	1068	-0.170	-0.063	0.068	0.113	125.965311	-36.043686	-2309.92	228.08

2.4 Star Slots

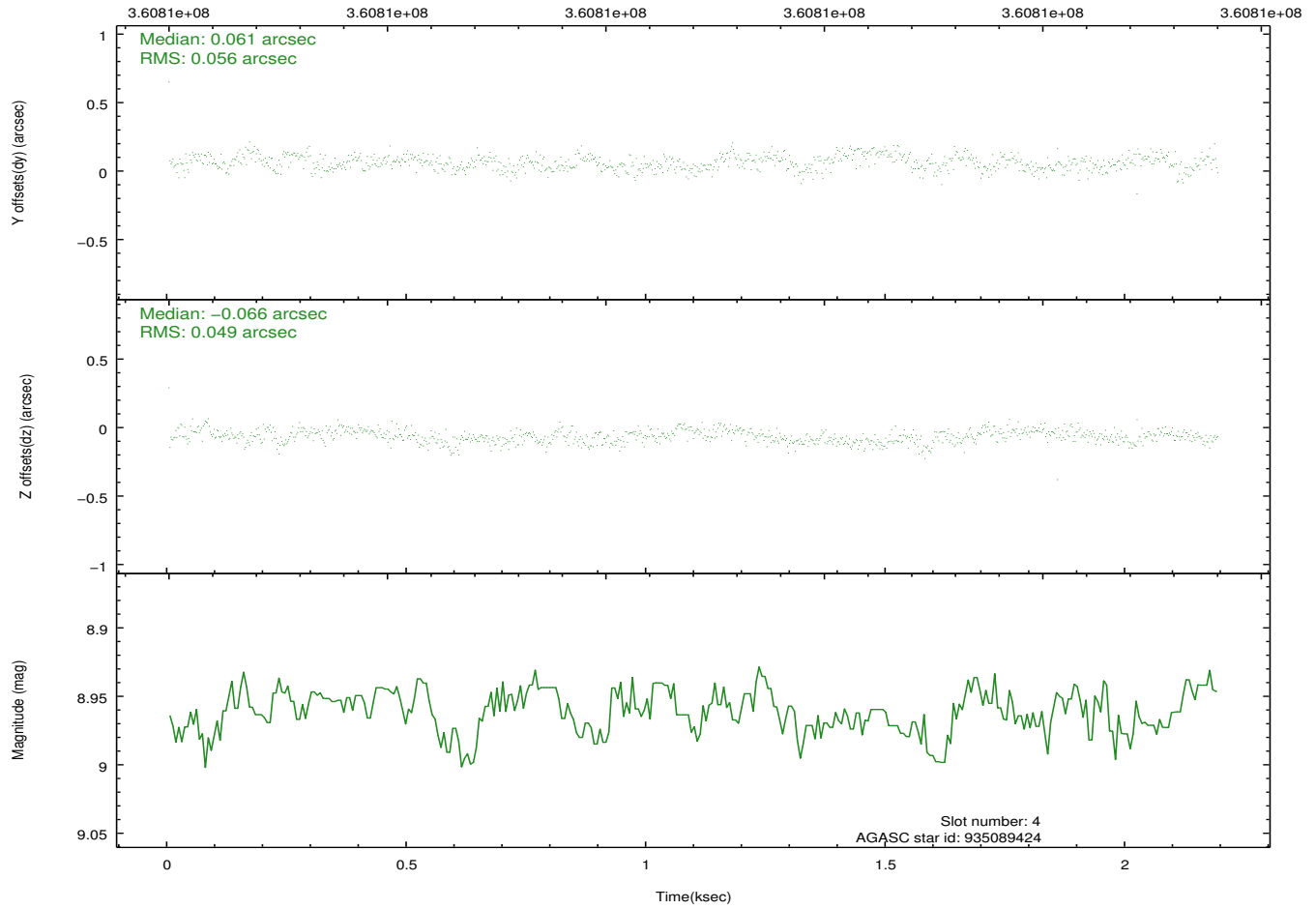
2.4.1 Slot 3



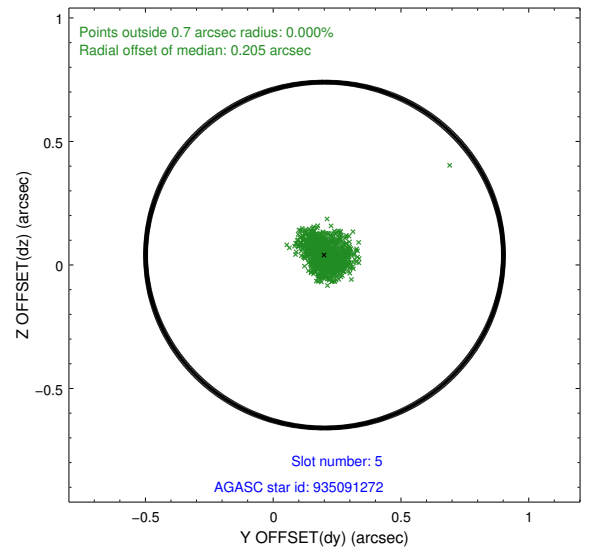
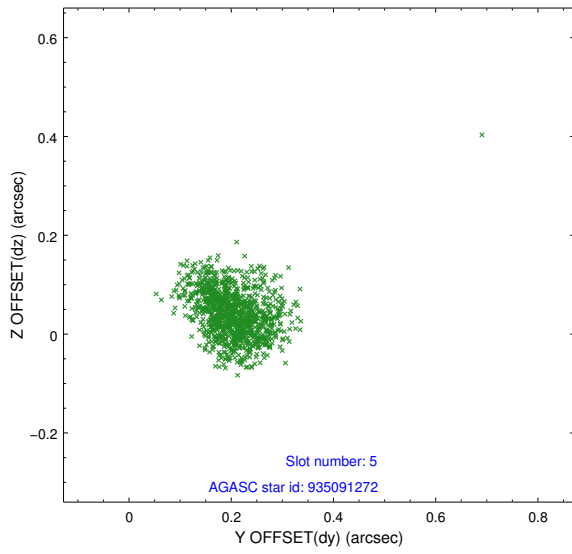
2.4.2 Slot 4



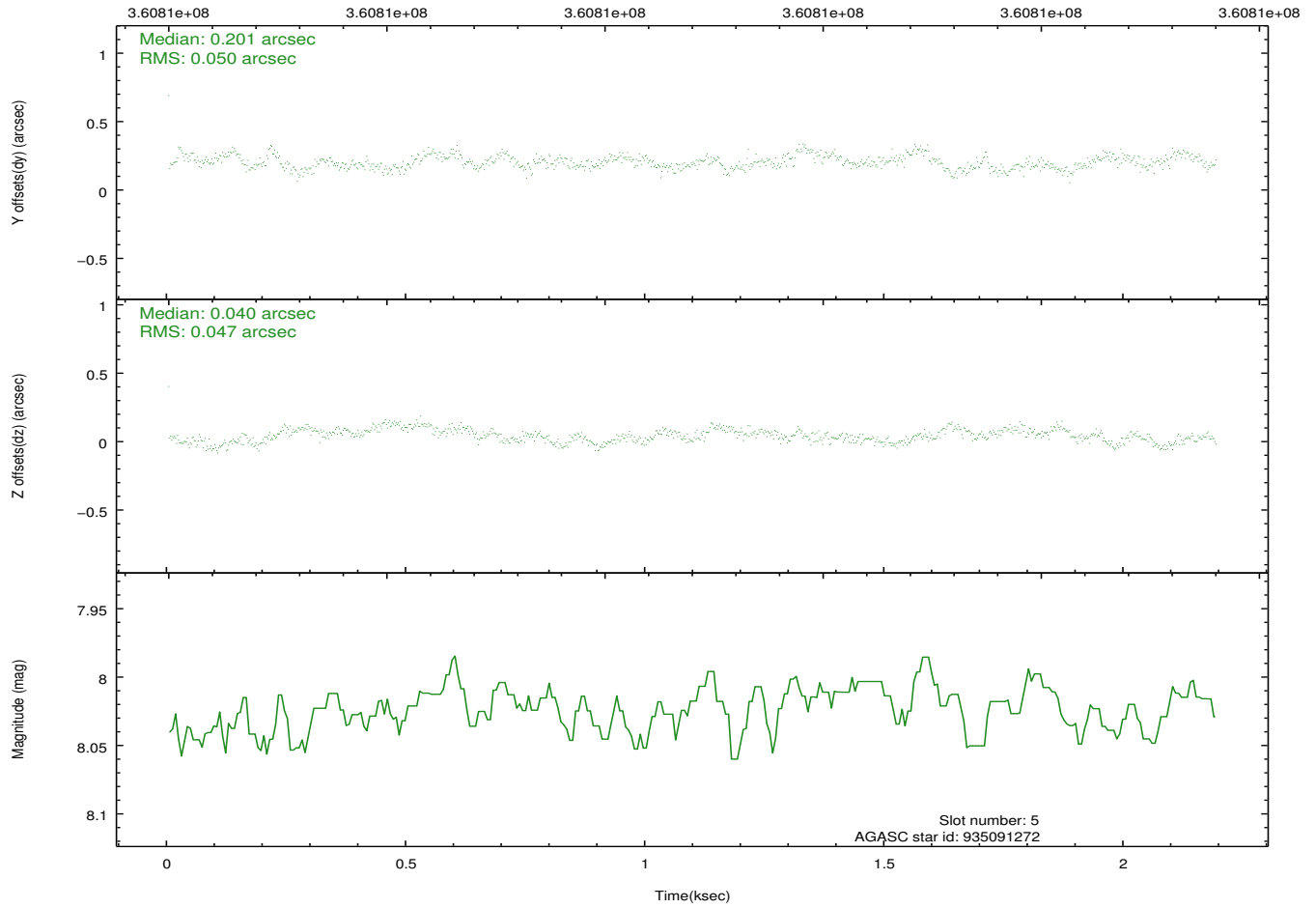
Time (s)



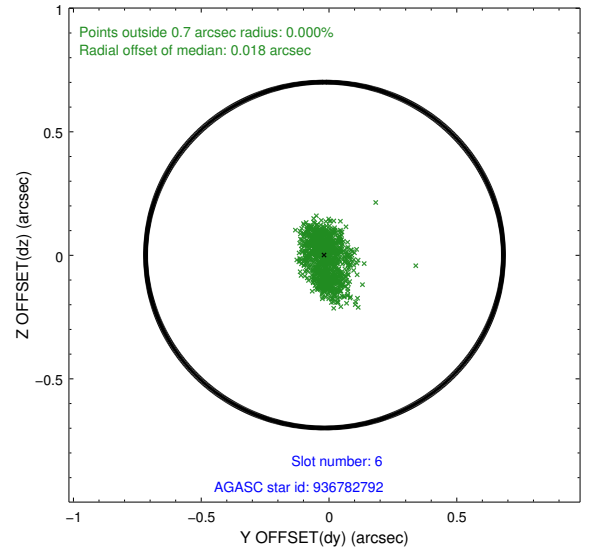
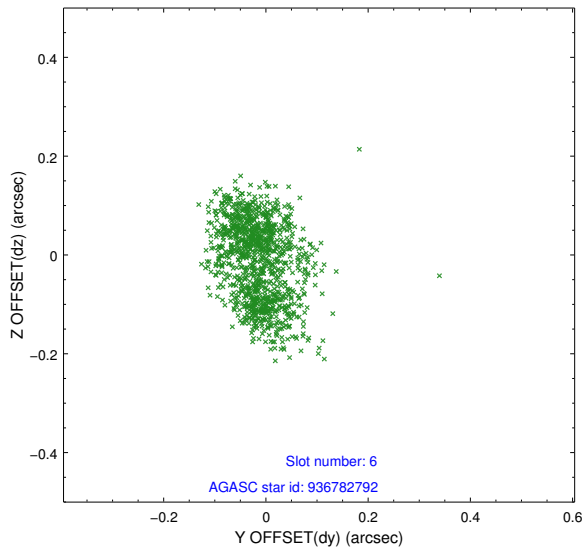
2.4.3 Slot 5



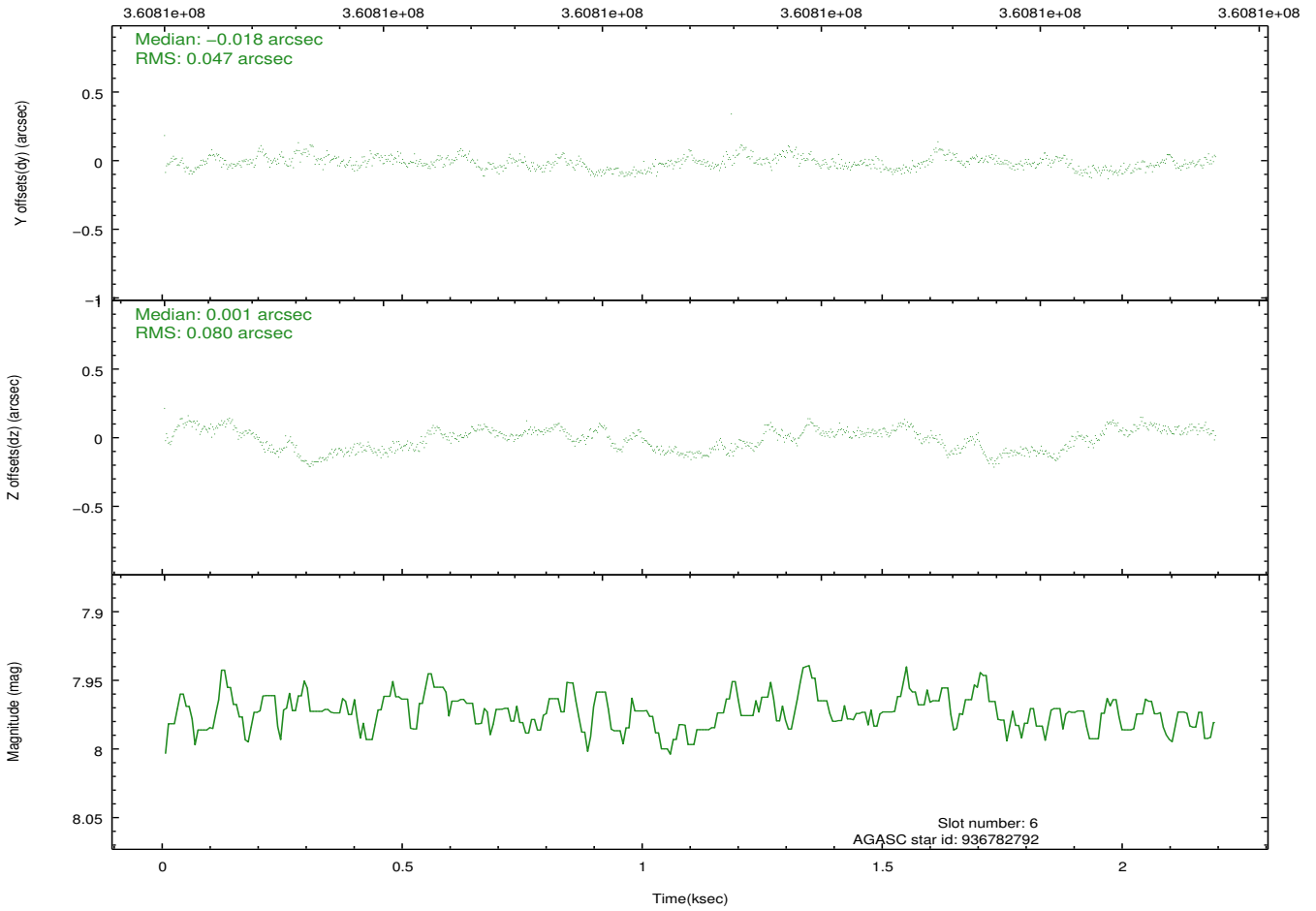
Time (s)



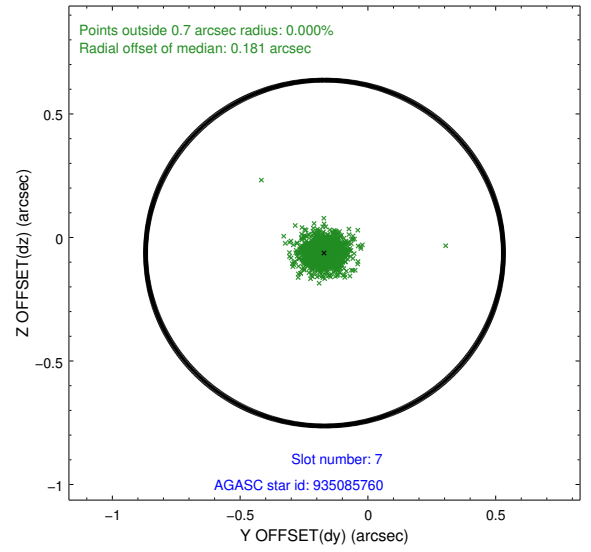
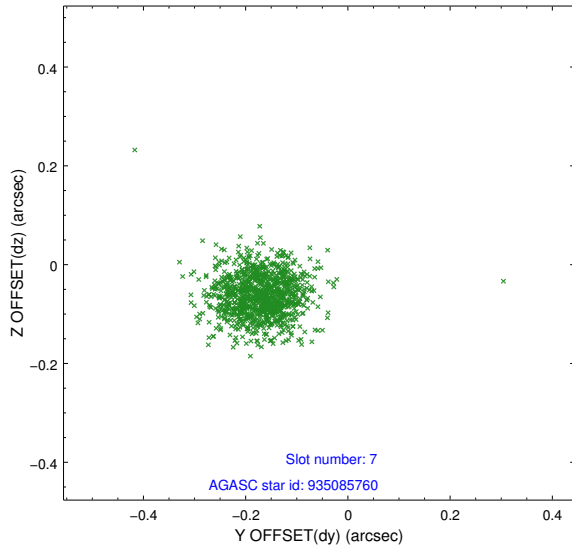
2.4.4 Slot 6



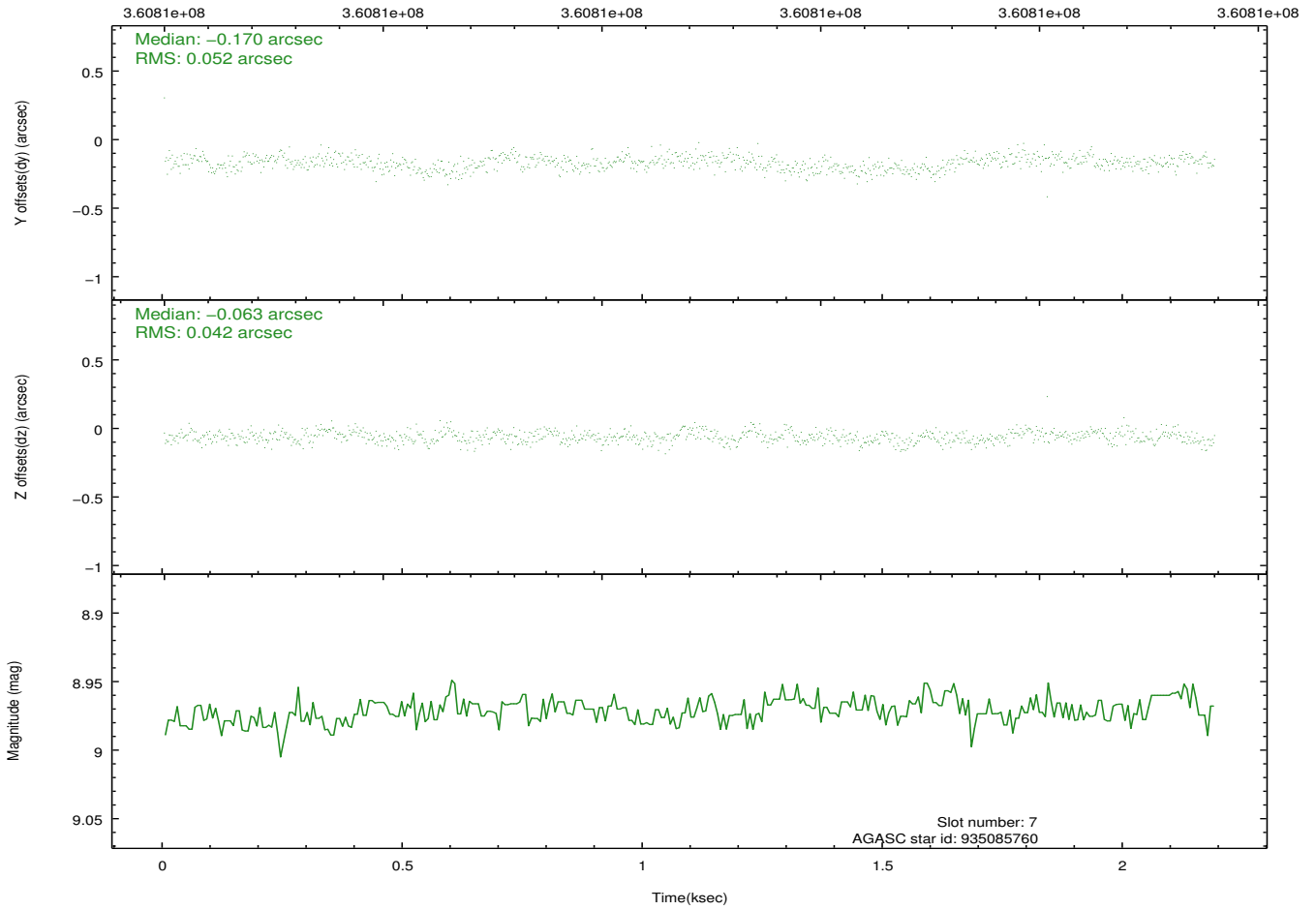
Time (s)



2.4.5 Slot 7

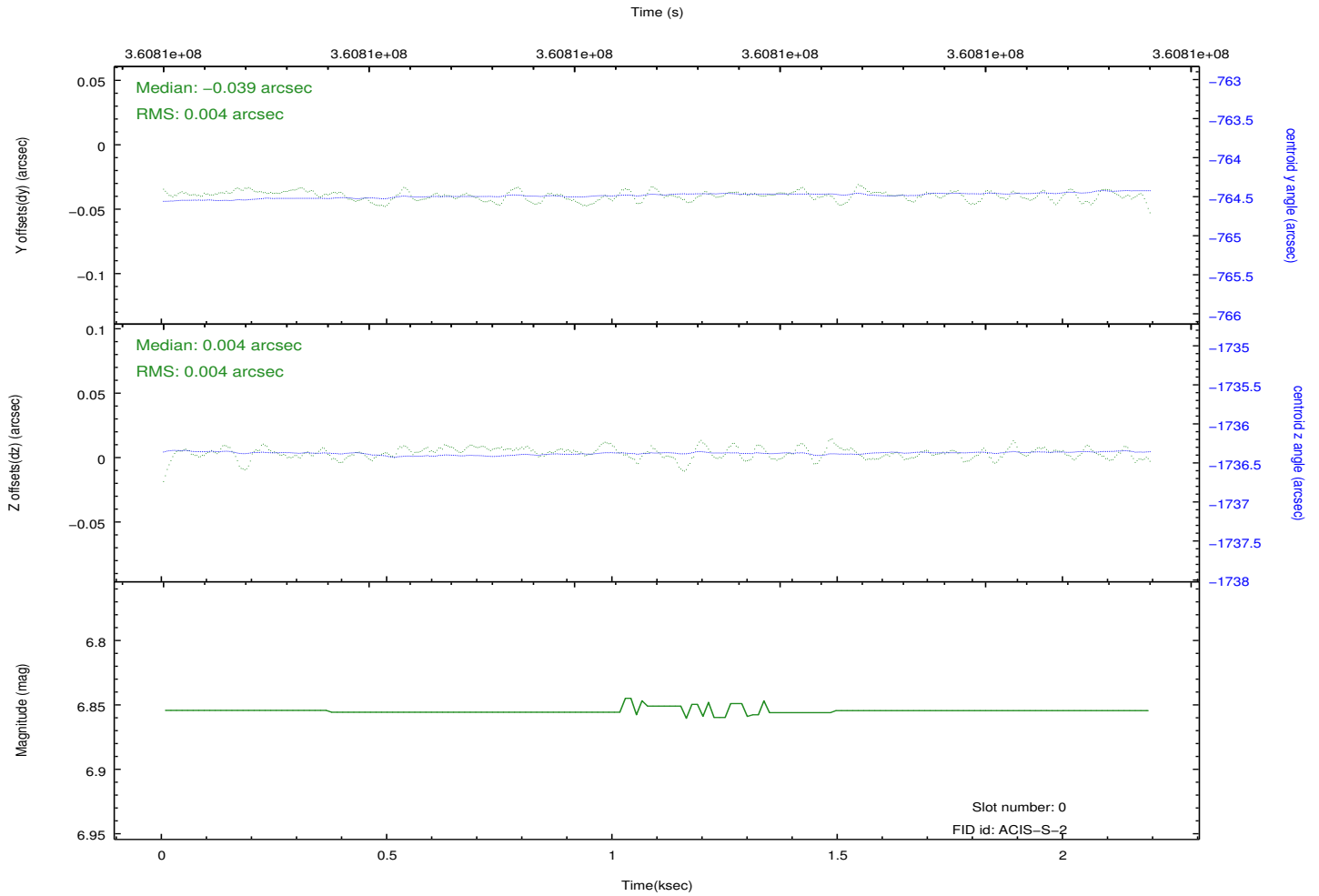
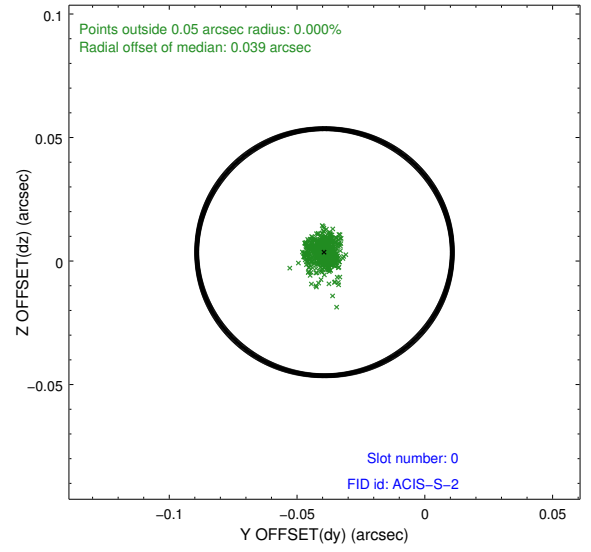
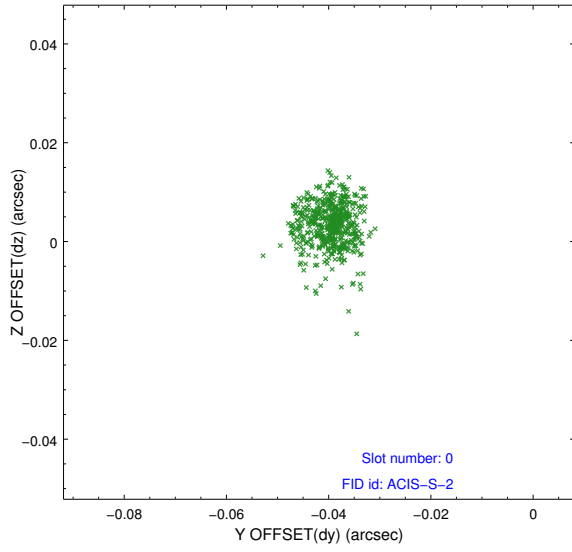


Time (s)

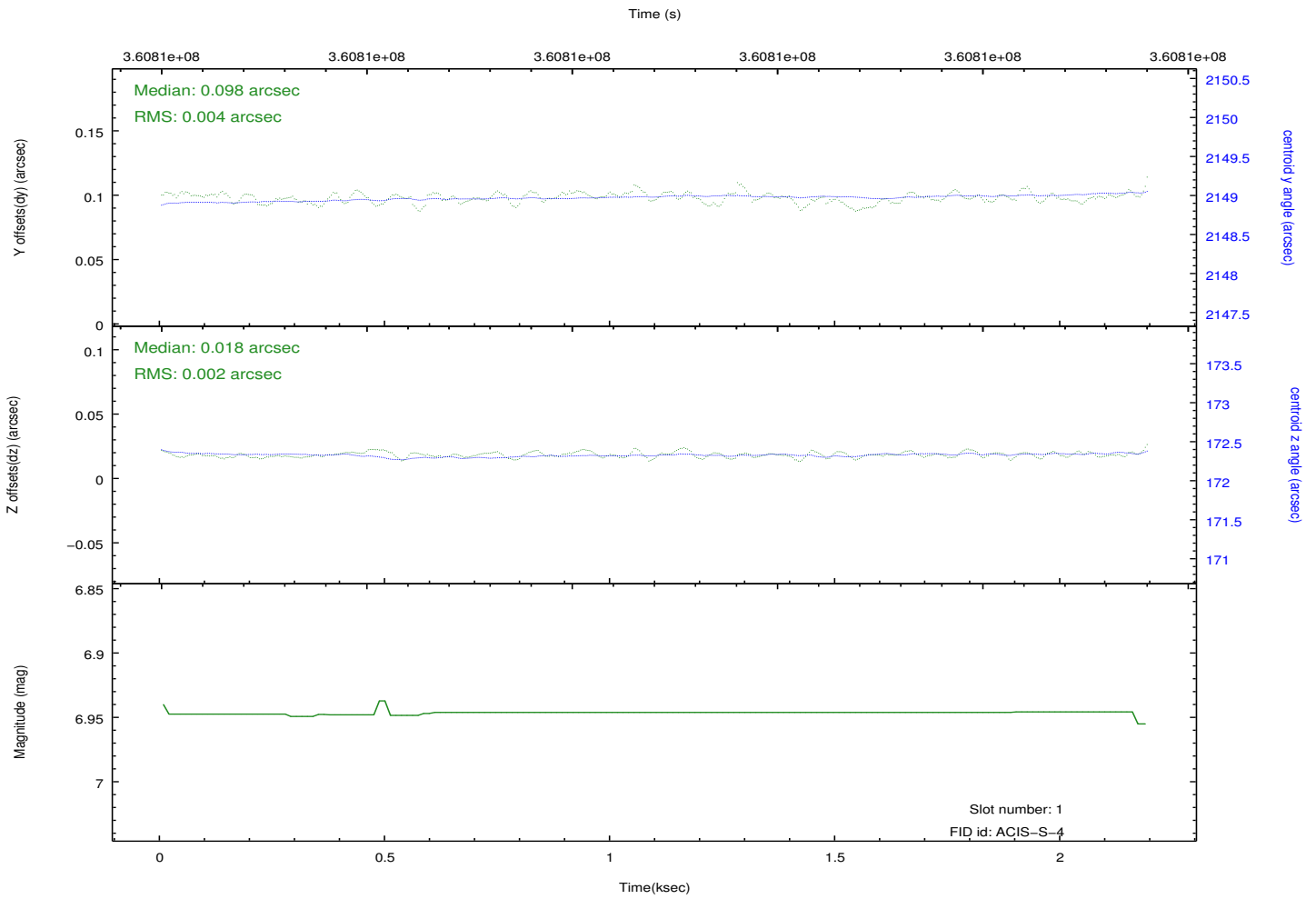
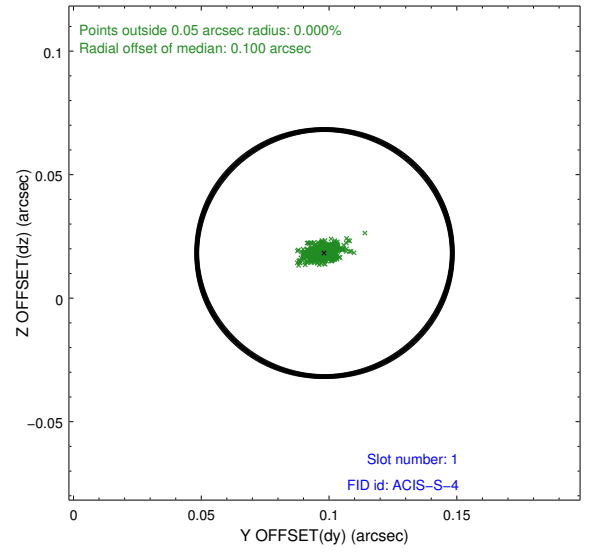
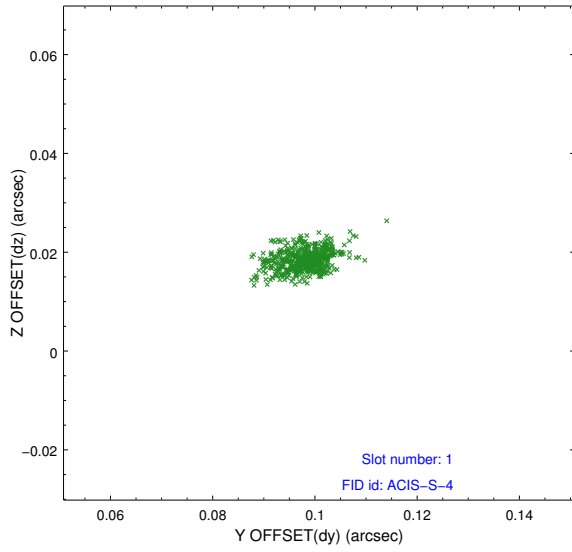


2.5 FID Slots

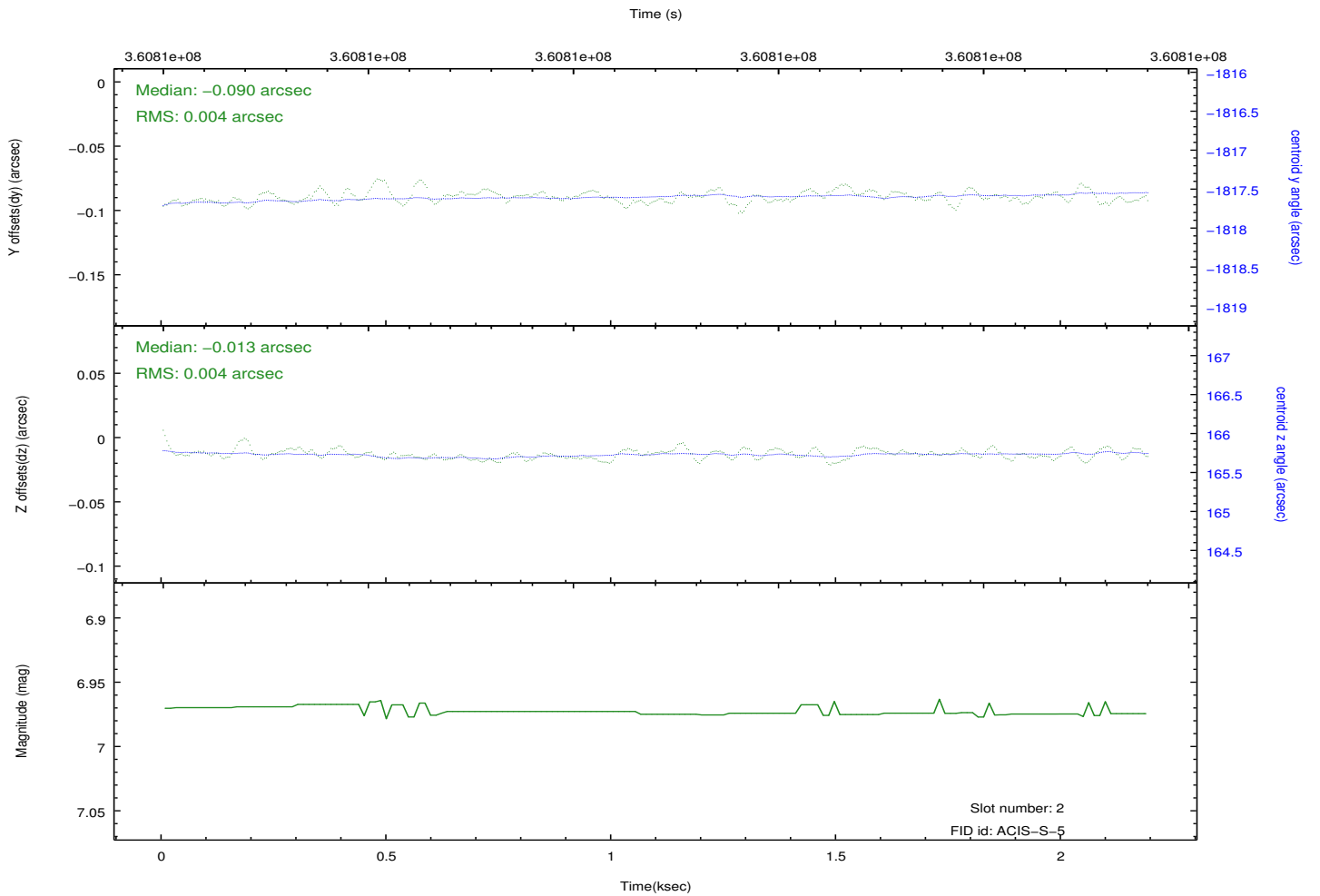
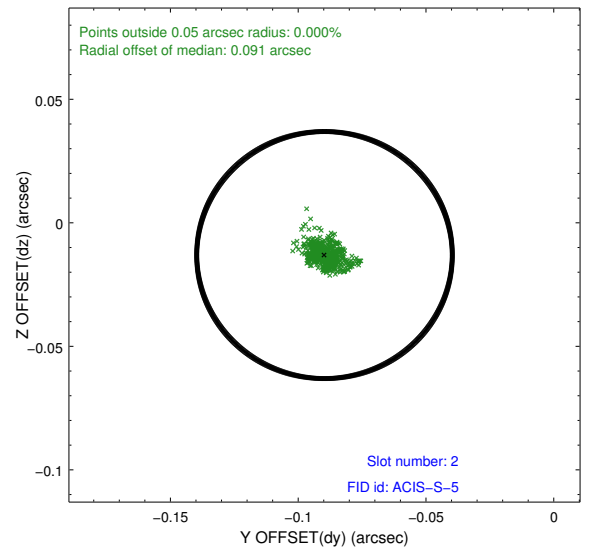
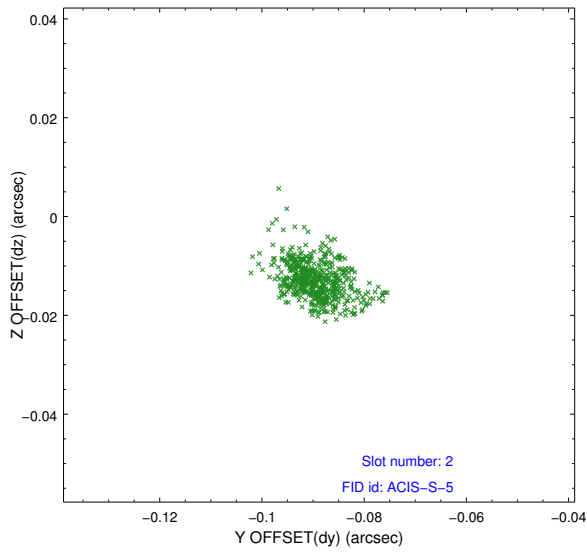
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.06.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.14520001

A.2 Comments