

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 11555 - L2 Version 2
Chandra X-Ray Center

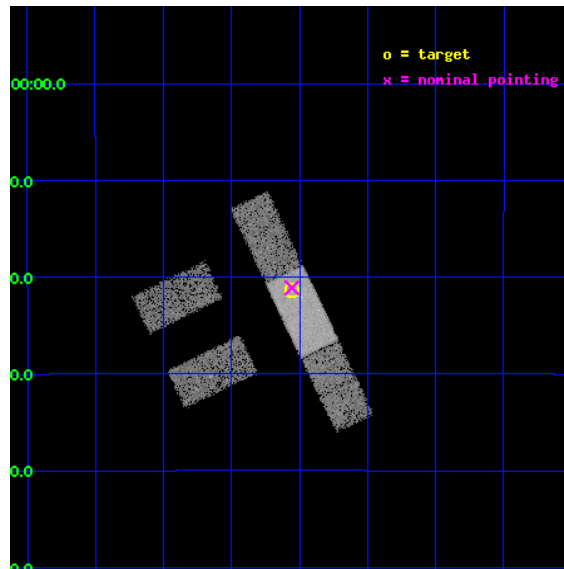
L2 Processing Date : Jul 8 2012

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

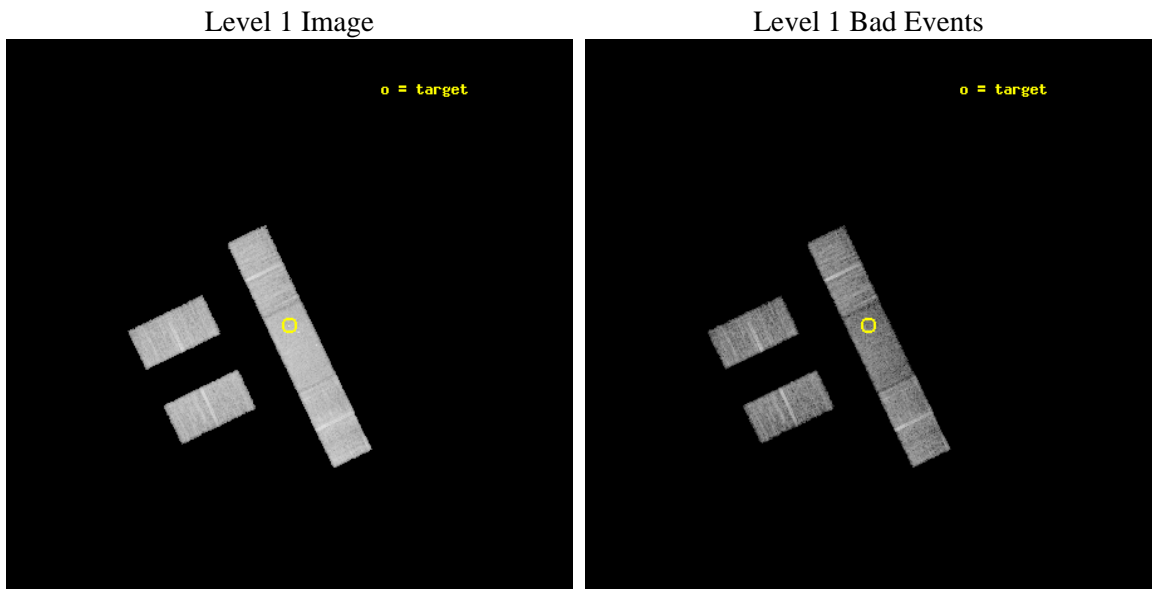
seq_num	702141	Sequence number
obs_id	11555	Observation id
title	The Size of Quasar Non-Thermal/X-ray Emission Regions	Proposal tit
observer	Prof. Christopher Kochanek	Principal investigator
object	HE1104-1805	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	166.639583	Observer's specified target RA [deg]
dec_targ	-18.356722	Observer's specified target Dec [deg]
ra_nom	166.63902858858	Nominal RA [deg]
dec_nom	-18.351944126705	Nominal Dec [deg]
roll_nom	64.350784565804	Nominal Roll [deg]
revision	2	Processing version of data
ontime	13064.499908447	Sum of GTIs [s]
liveltime	12756.541977416	Livetime [s]
ontime2	13064.499908447	Sum of GTIs [s]
ontime3	13064.499908447	Sum of GTIs [s]
ontime6	13062.758888304	Sum of GTIs [s]
ontime7	13064.499908447	Sum of GTIs [s]
ontime8	13064.499908447	Sum of GTIs [s]
l2events	45867	Number of level 2 events



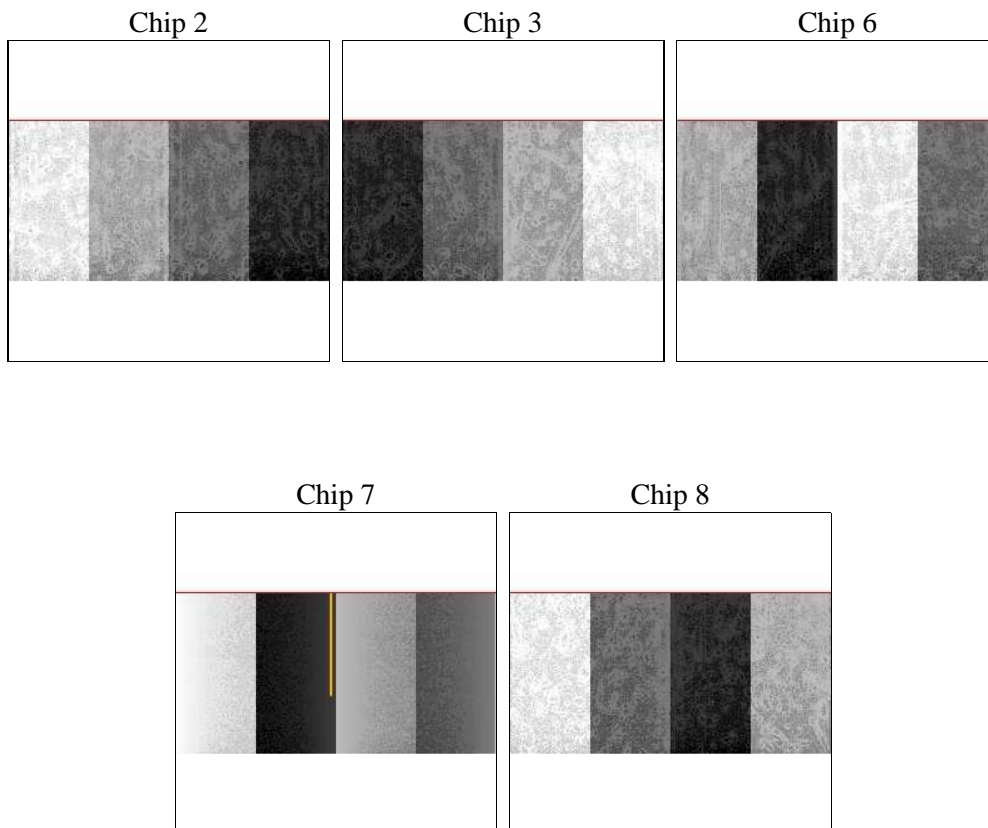
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	13000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	13064.499908447	Sum of GTIs [s]
caldbver	4.5.0	 	ontime2	13064.499908447	Sum of GTIs [s]
date	2012-07-08T19:29:48	Date and time of file creation	ontime3	13064.499908447	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	13062.758888304	Sum of GTIs [s]
			ontime7	13064.499908447	Sum of GTIs [s]
			ontime8	13064.499908447	Sum of GTIs [s]
			l1events	270587	Number of level 1 events

2.1.4 Events

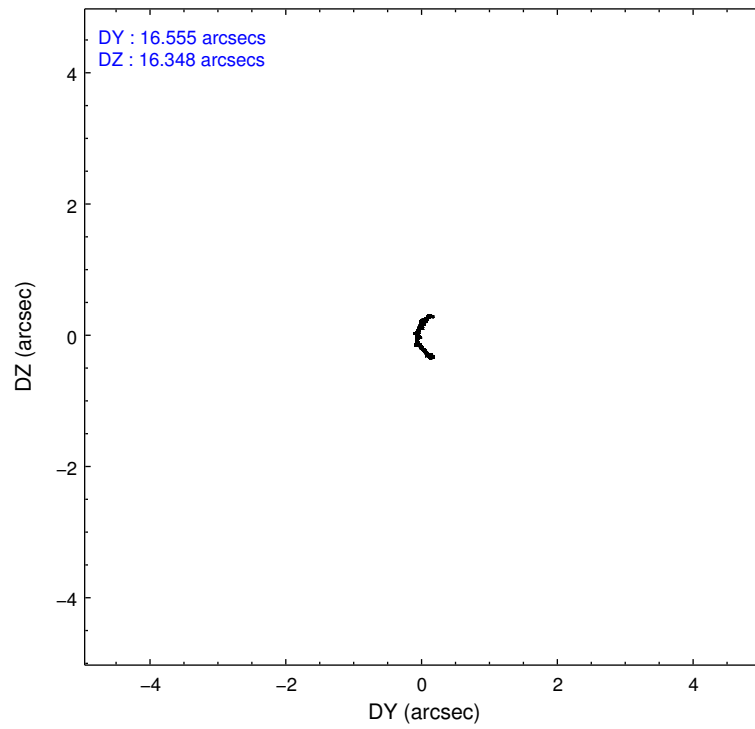
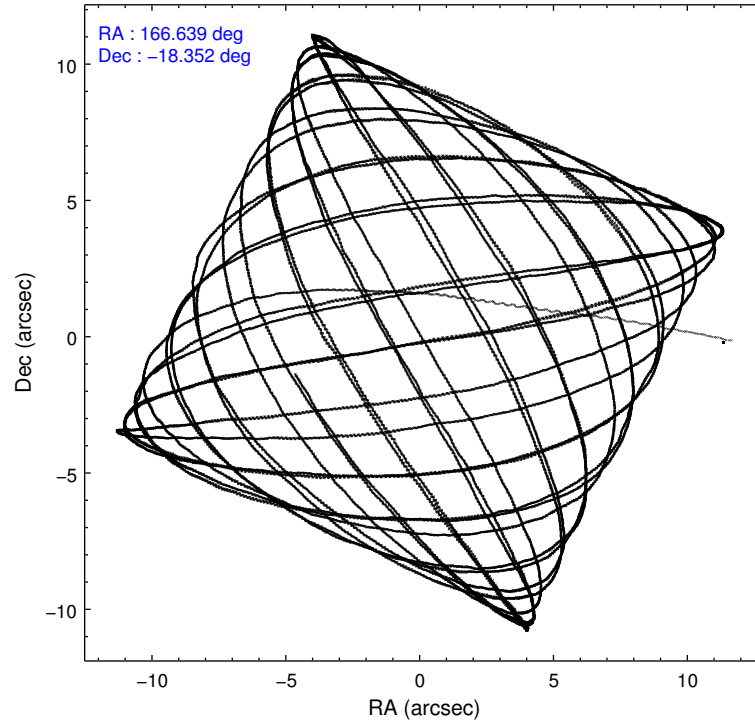
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	47957	48155	50500	59405	64570
rejected events	42796	43125	44709	31851	48502
rejected %	89%	89%	88%	53%	75%

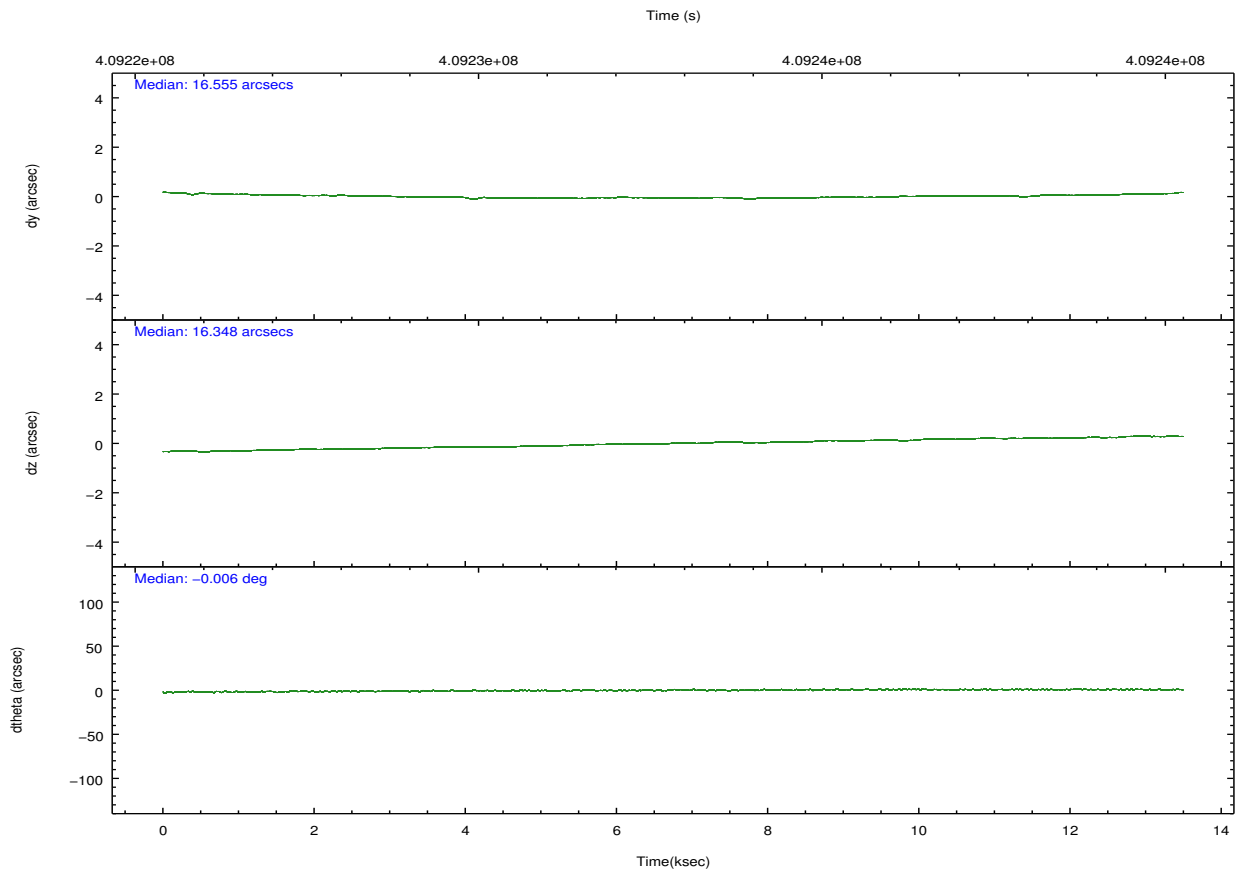
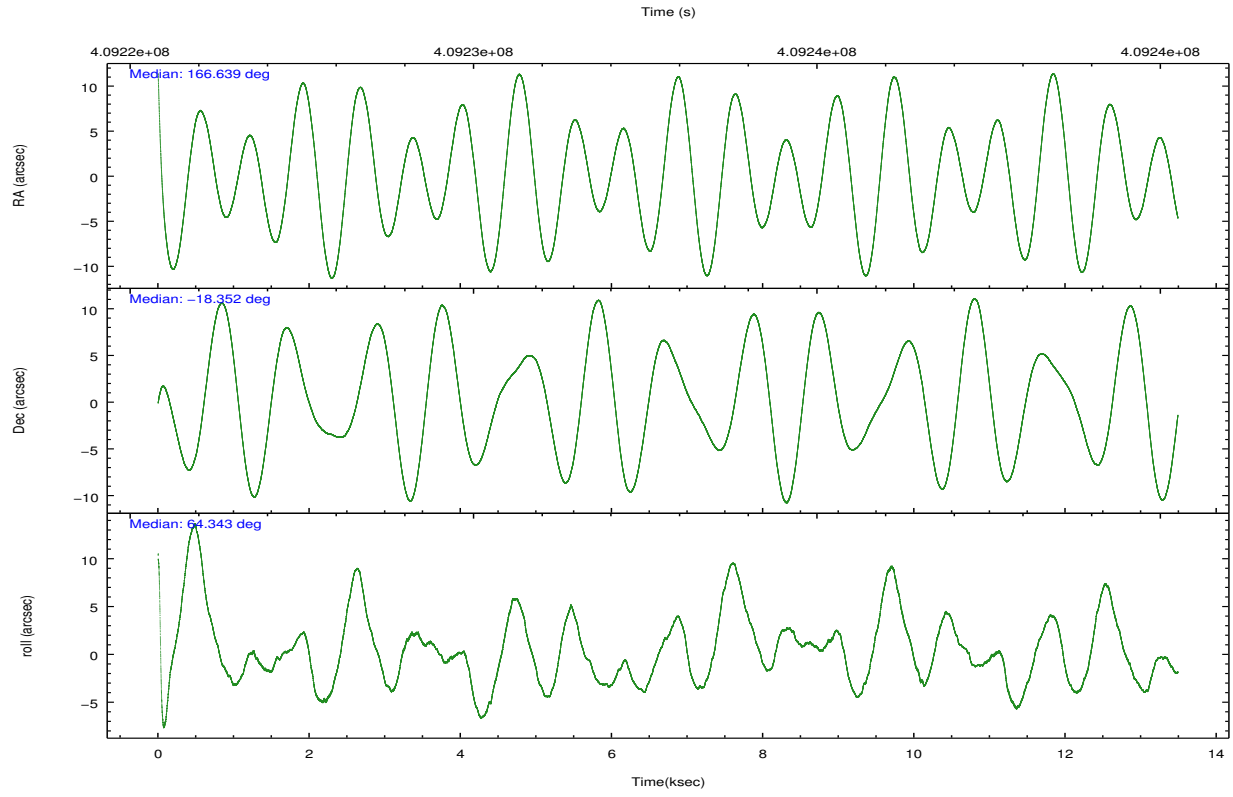
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	1673	1680	1922	2892	4329
	3%	3%	3%	4%	6%
grade 1 events	23	24	18	76	34
	0%	0%	0%	0%	0%
grade 2 events	1218	1058	1223	5749	4023
	2%	2%	2%	9%	6%
grade 3 events	626	665	691	2742	1646
	1%	1%	1%	4%	2%
grade 4 events	634	620	712	2670	1566
	1%	1%	1%	4%	2%
grade 5 events	1796	2199	2117	6131	3051
	3%	4%	4%	10%	4%
grade 6 events	1010	1008	1247	13508	4506
	2%	2%	2%	22%	6%
grade 7 events	40977	40901	42570	25637	45415
	85%	84%	84%	43%	70%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	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	166.641629	166.639028588583	CCD I2 on	O4	Y
[deg] Pointing Dec	-18.379131	-18.35194412670487	CCD I3 on	O3	Y
[deg] Pointing Roll	64.194960	64.35078456580393	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	O2	Y
[s] Observation start time (MET)	409226574.184000	409225264.00836	CCD S5 on	N	N
Observation start date	2010-12-20T10:01:48	2010-12-20T09:41:04	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	409239574.184000	409240957.78417	On-chip summing requested	N	N
Observation end date	2010-12-20T13:38:28	2010-12-20T14:02:37	Subarray requested	CUSTOM	1/2
Read mode	TIMED	TIMED	Subarray start row	257	257
			Subarray row count	512	512
			Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	1.7

2.3 Aspect





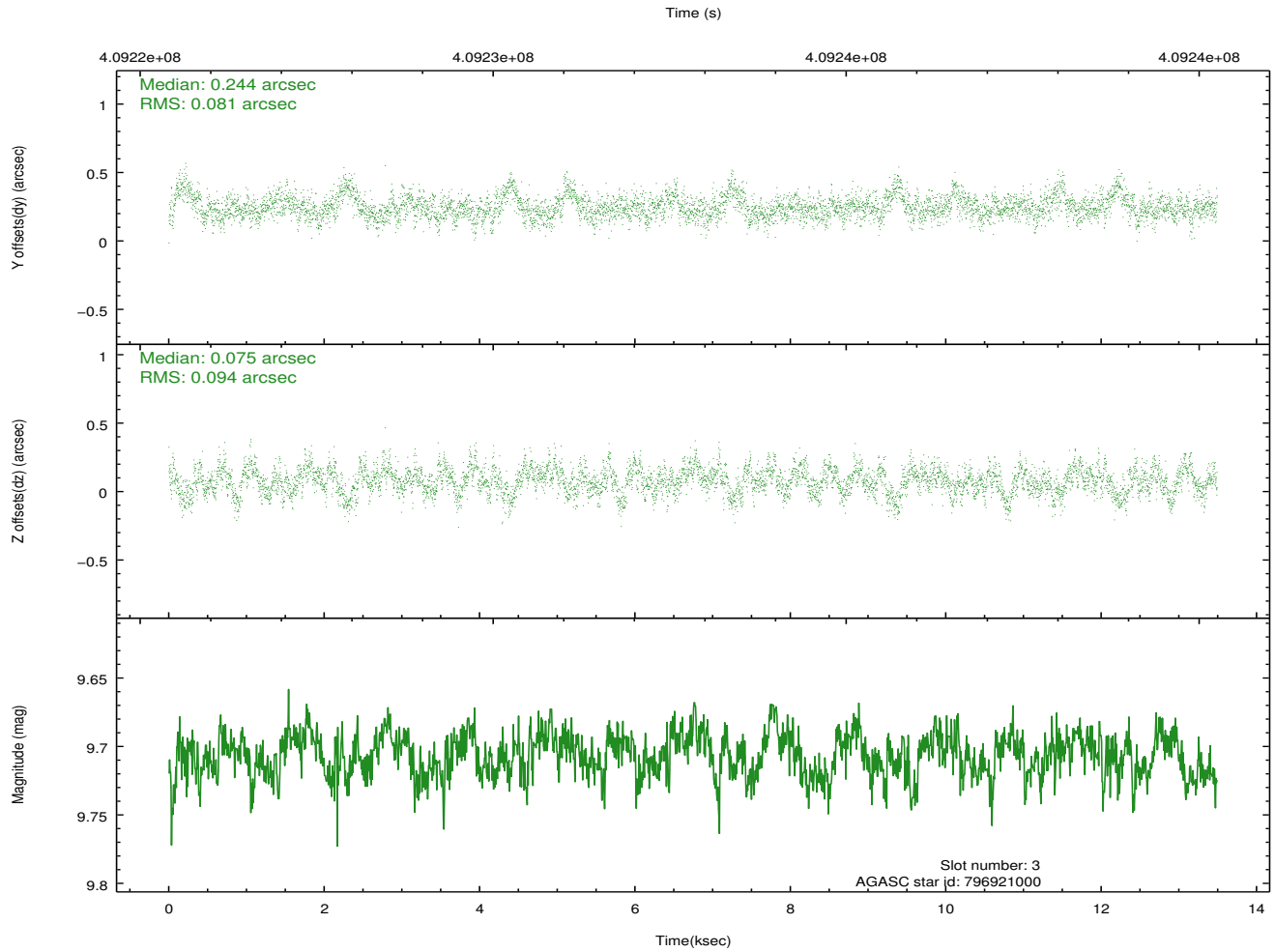
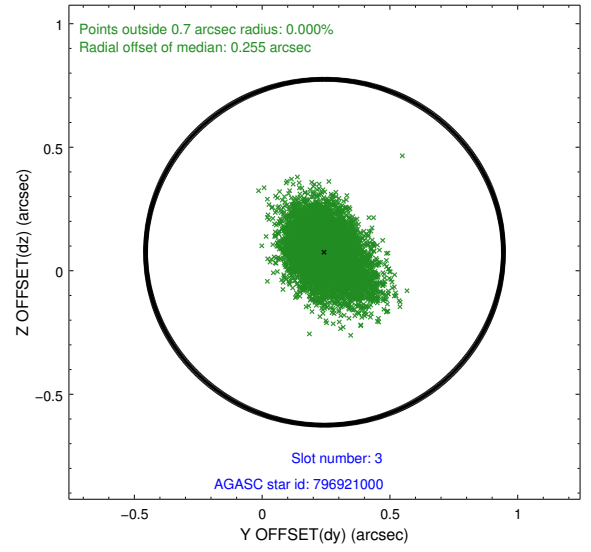
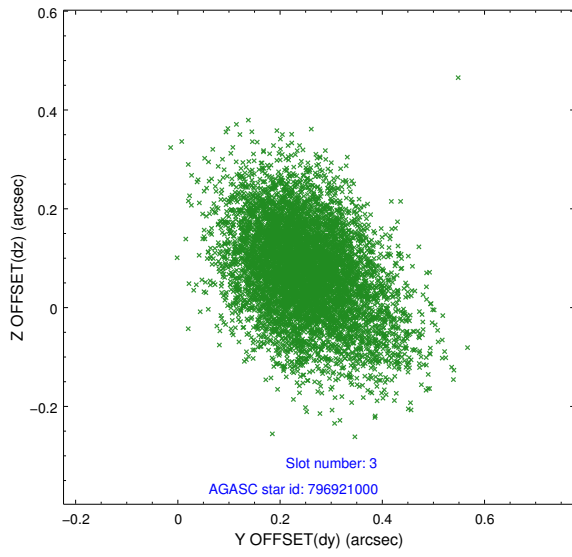
Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.03	3291	0.108	-0.130	0.008	0.014	0.000000	0.000000	926.59	-1733.50
1	FID	ACIS-S-5	7.08	3291	-0.128	0.069	0.008	0.013	0.000000	0.000000	-1822.47	163.86
2	FID	ACIS-S-6	7.18	3289	-0.002	0.073	0.009	0.014	0.000000	0.000000	391.62	808.25
3	GUIDE	796921000	9.71	6574	0.244	0.075	0.130	0.222	166.658084	-18.401963	-48.76	-86.24
4	GUIDE	796923960	9.14	6559	-0.098	0.138	0.113	0.185	167.114946	-18.113690	1563.92	-1042.28
5	GUIDE	796928784	8.42	6578	-0.444	-0.018	0.100	0.158	166.853792	-17.800971	2190.29	251.34
6	GUIDE	796928880	9.90	6571	0.267	0.239	0.196	0.310	166.621408	-18.801010	-1398.20	-599.70
7	GUIDE	796930880	9.94	6577	0.017	-0.417	0.184	0.283	166.119482	-18.145311	-22.23	1972.98

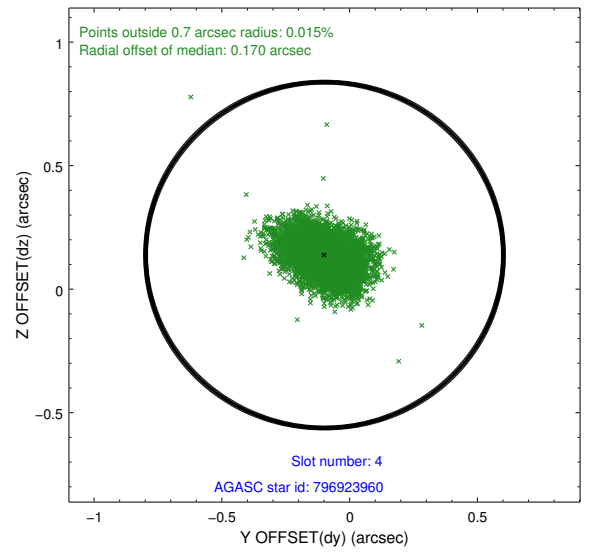
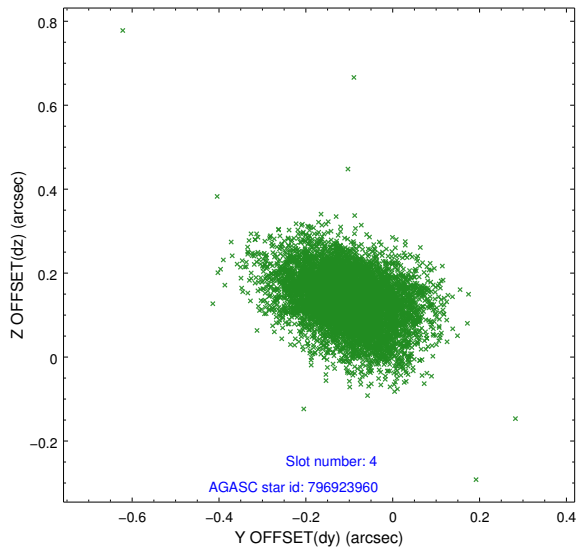
∞

2.4 Star Slots

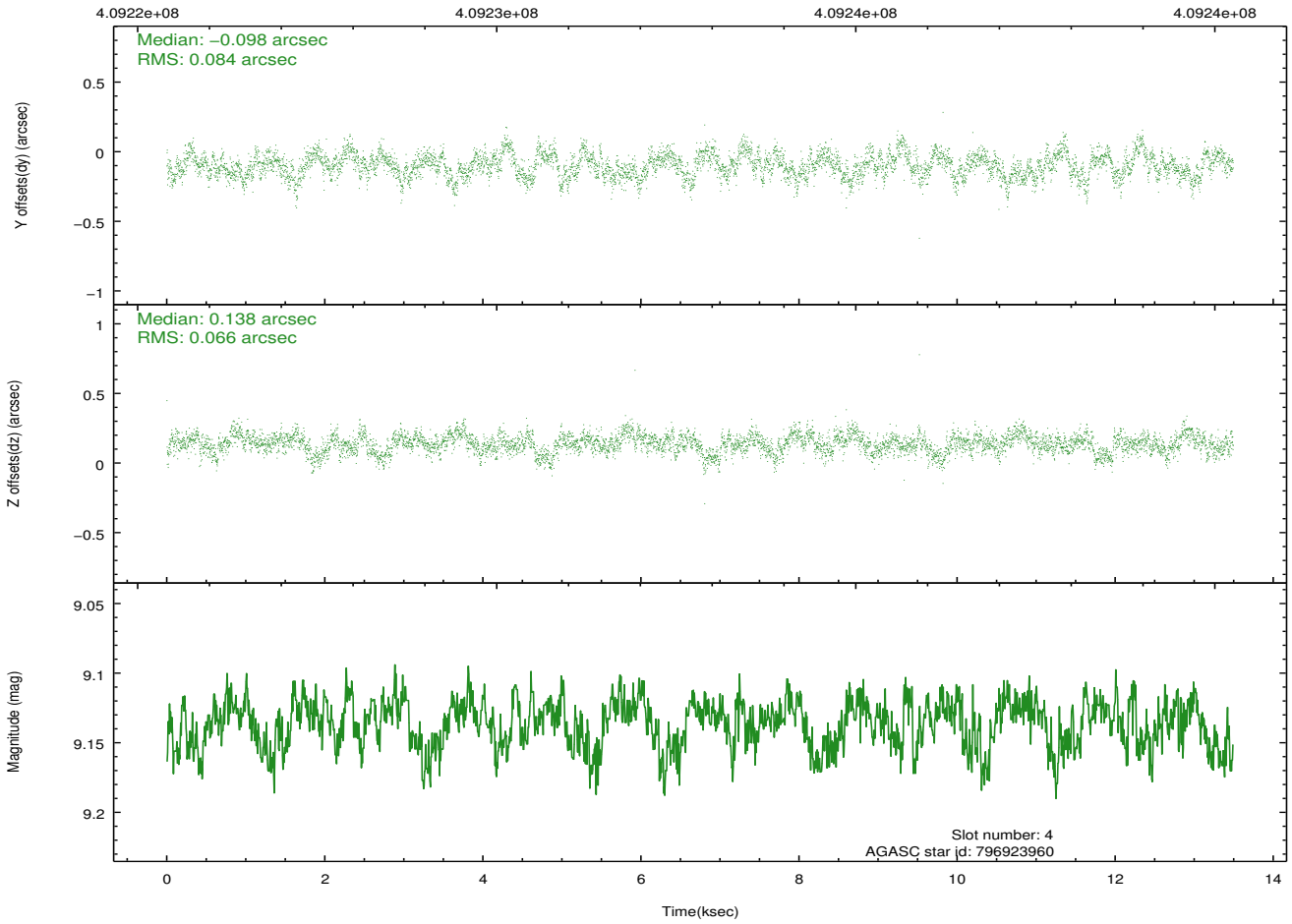
2.4.1 Slot 3



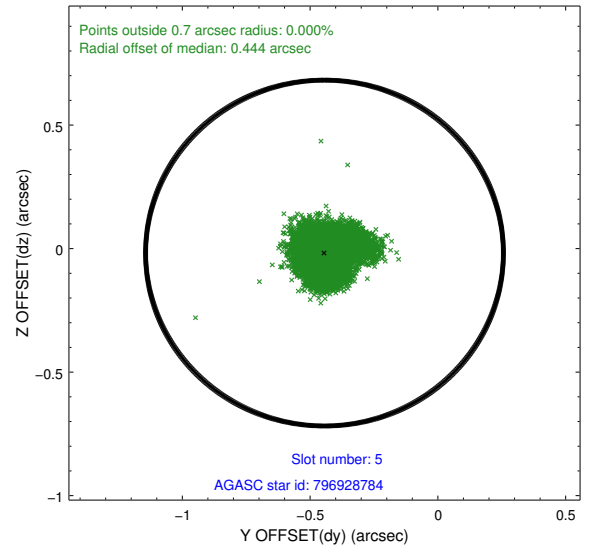
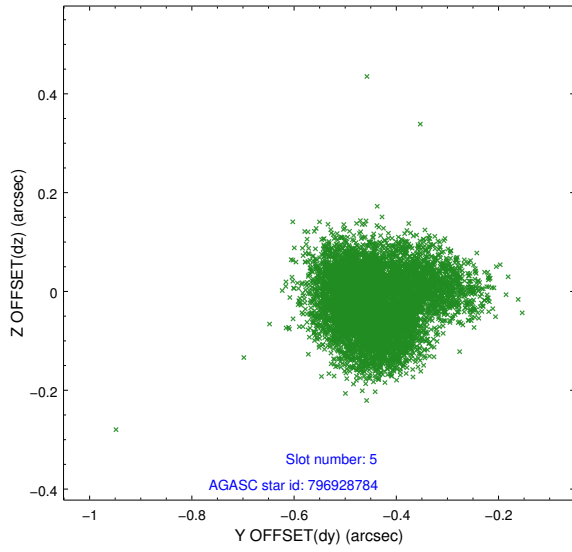
2.4.2 Slot 4



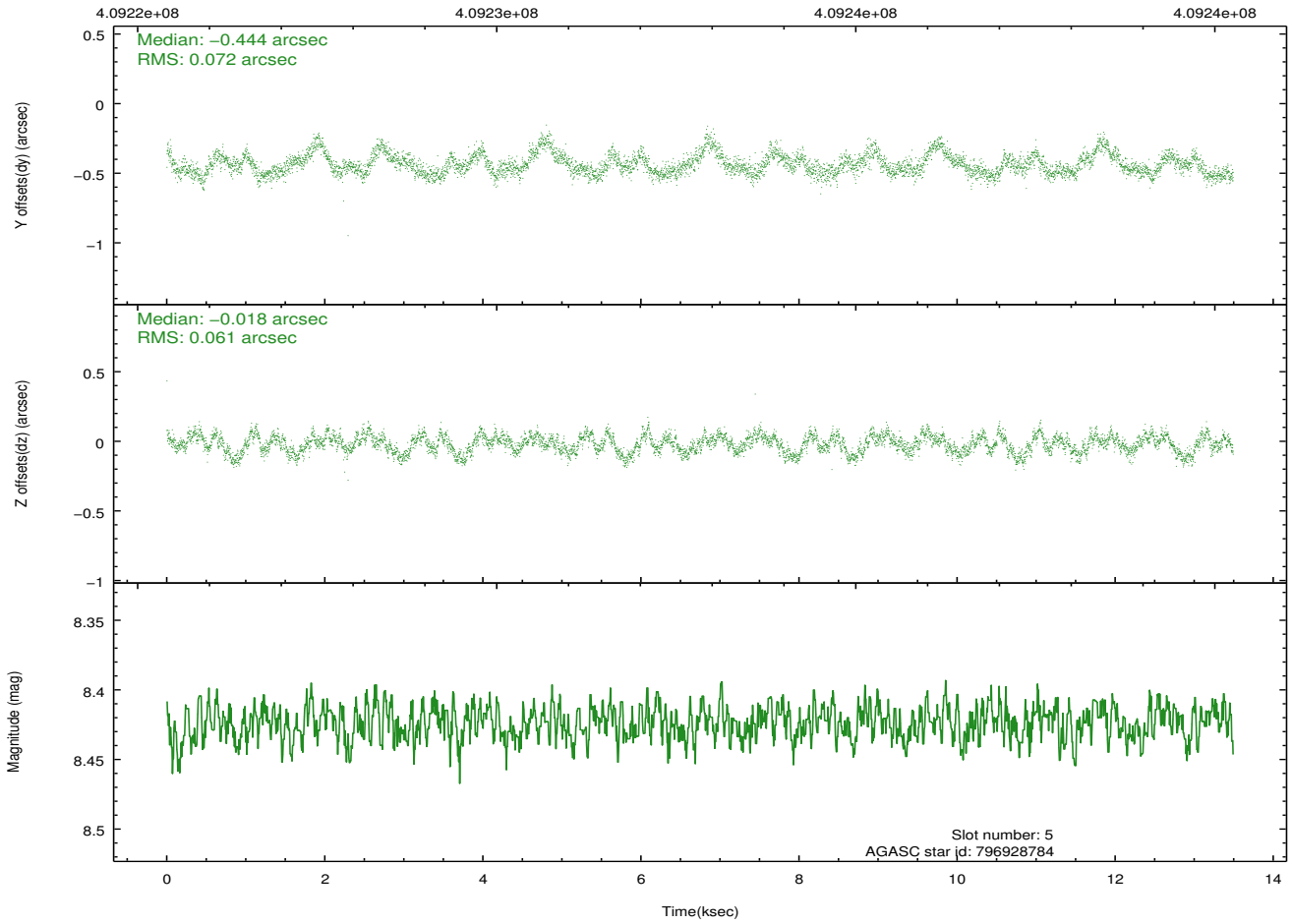
Time (s)



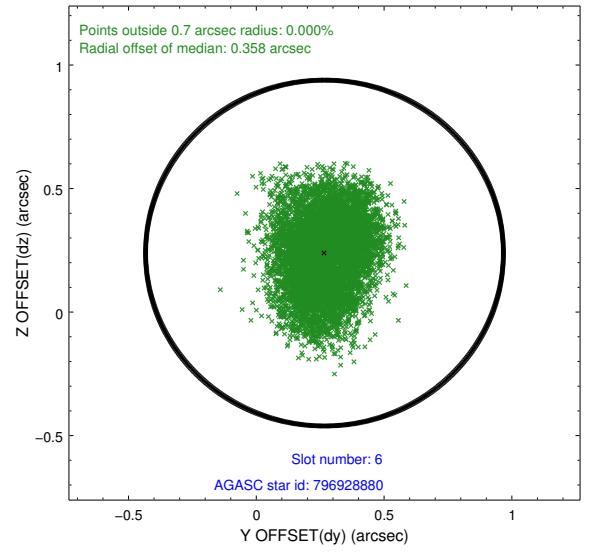
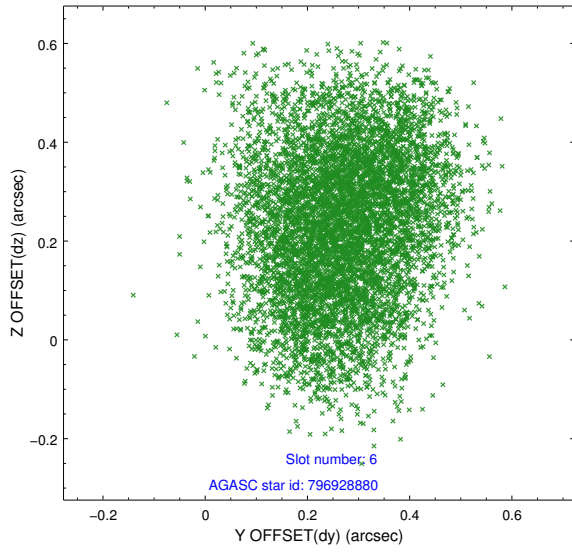
2.4.3 Slot 5



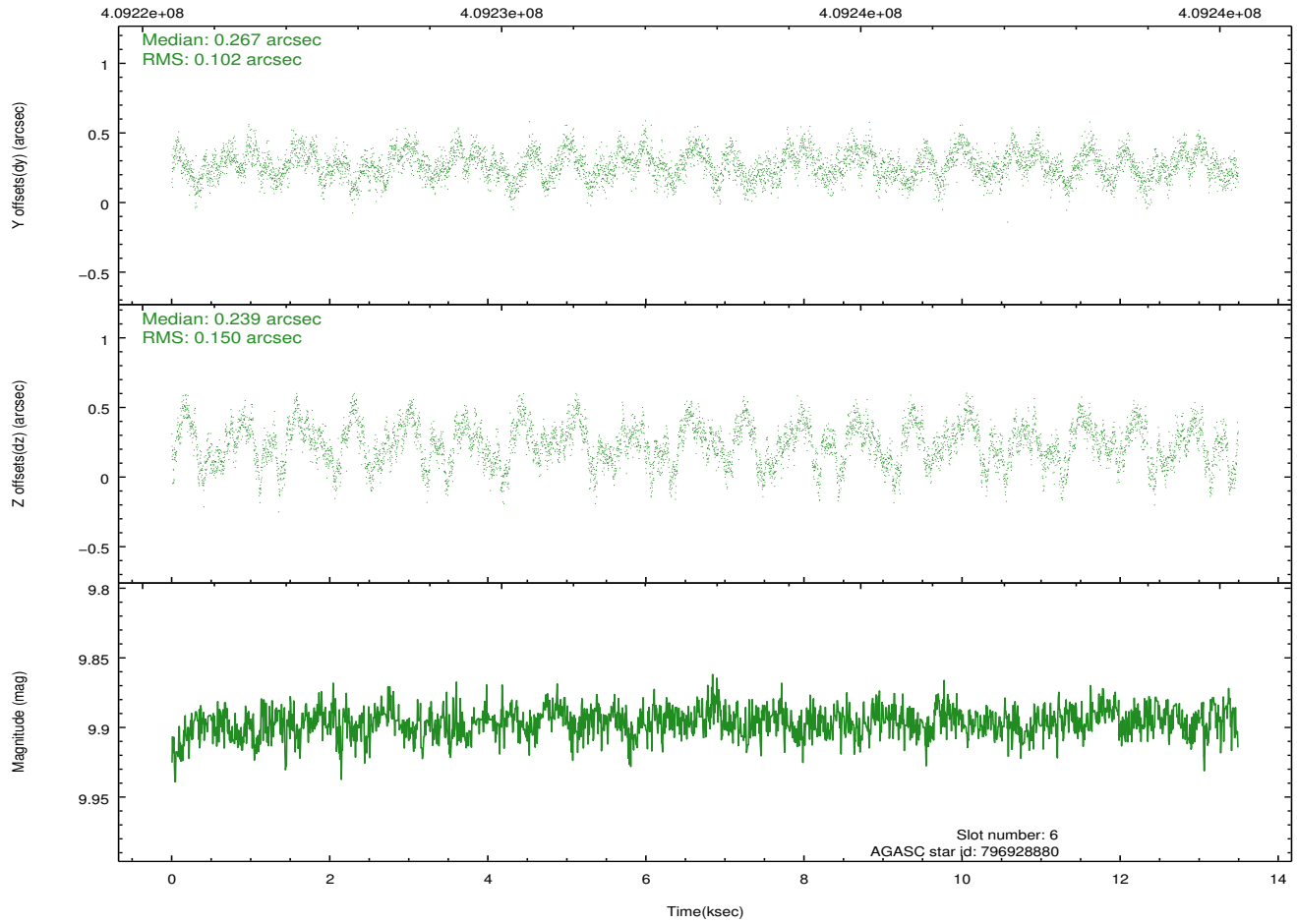
Time (s)



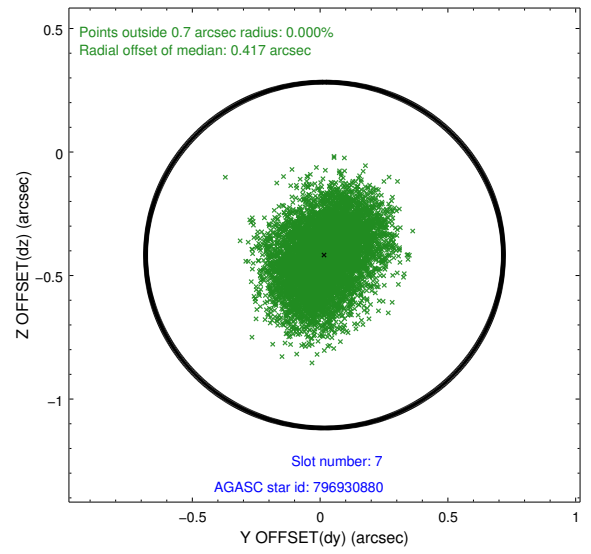
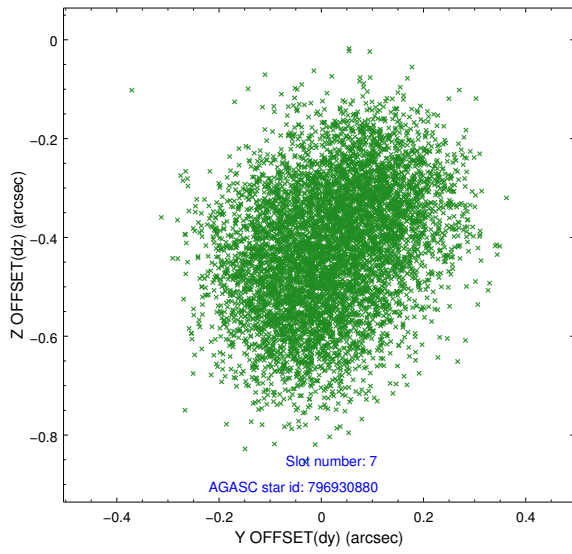
2.4.4 Slot 6



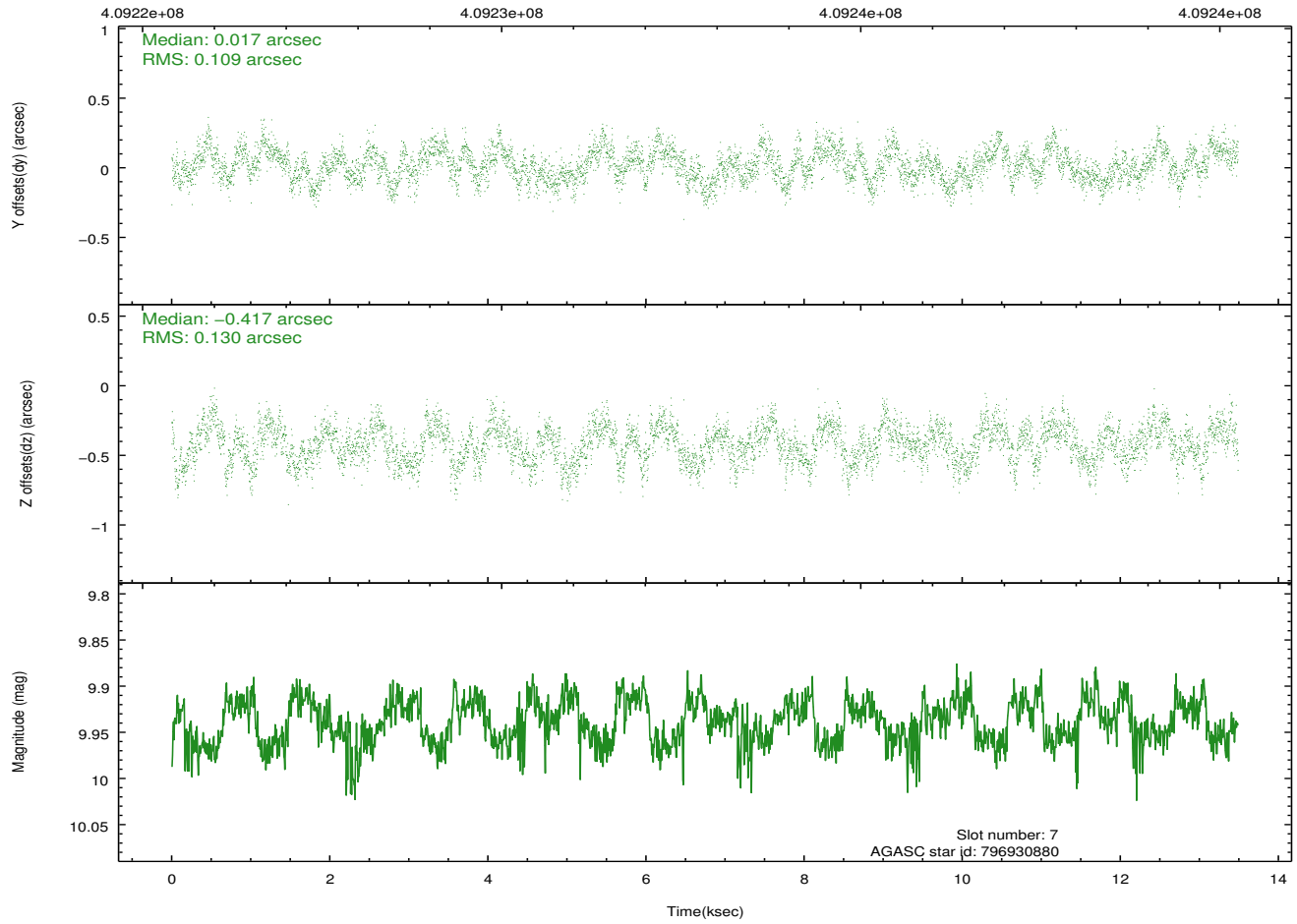
Time (s)



2.4.5 Slot 7

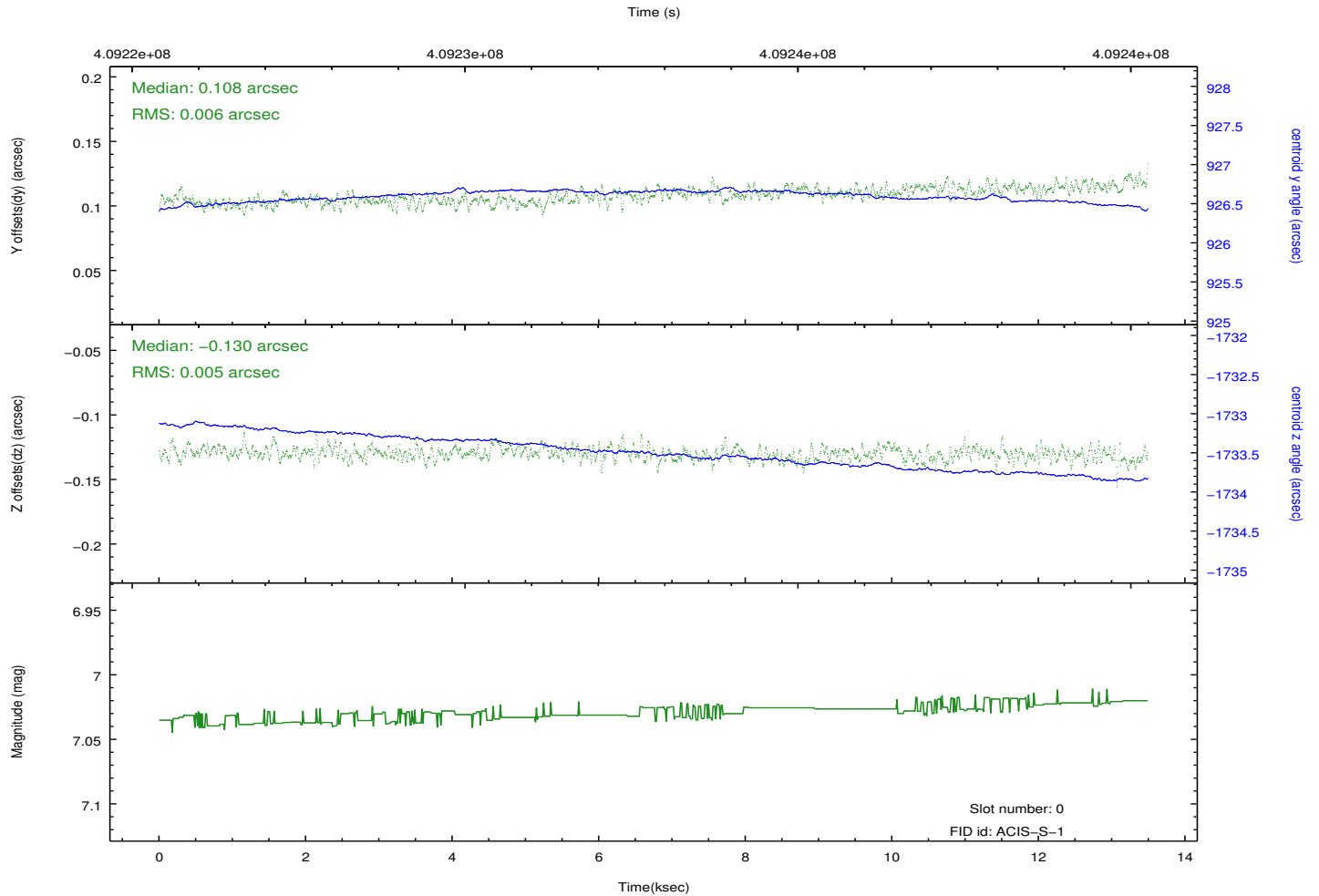
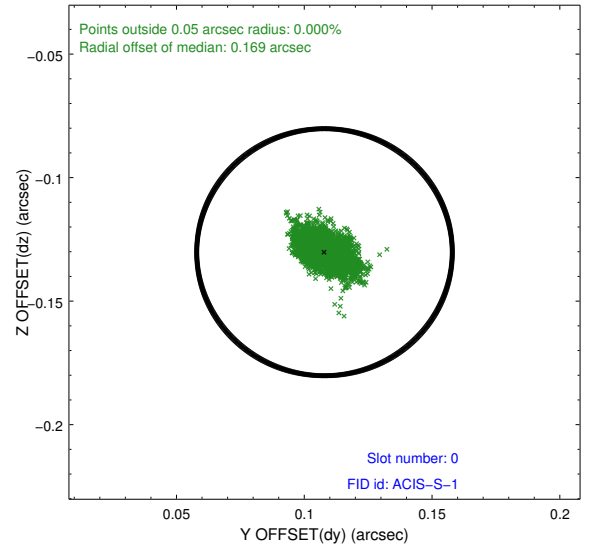
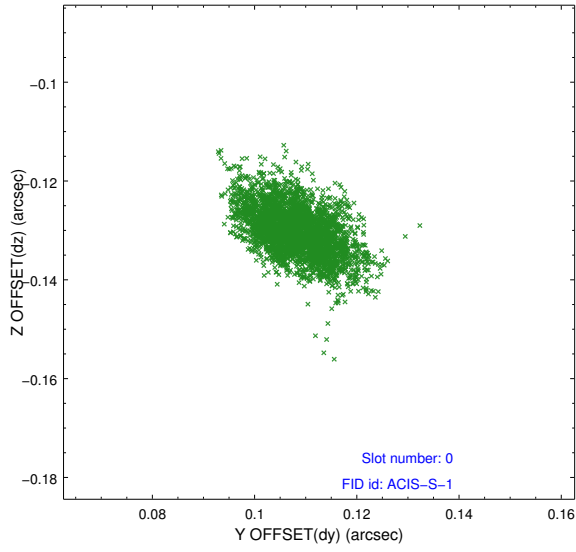


Time (s)

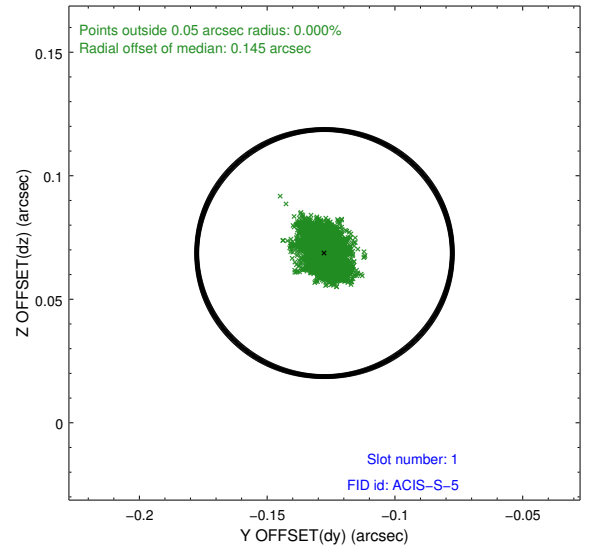
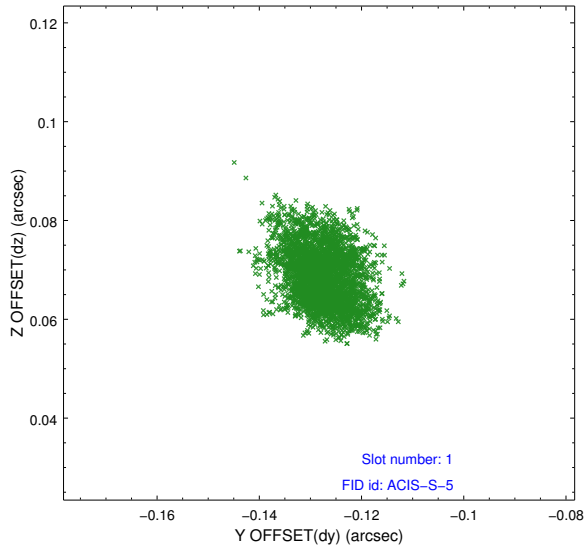


2.5 FID Slots

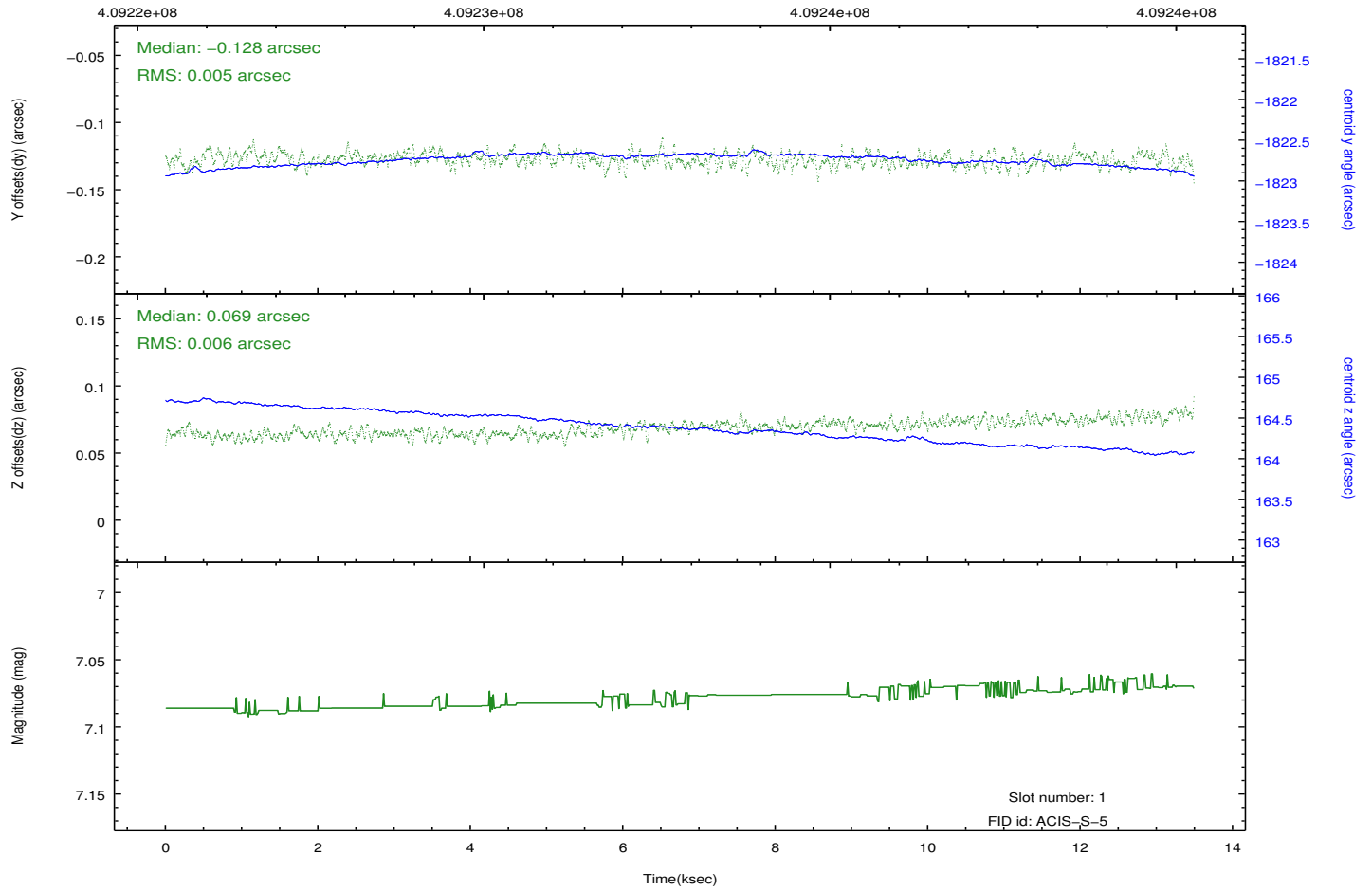
2.5.1 Slot 0



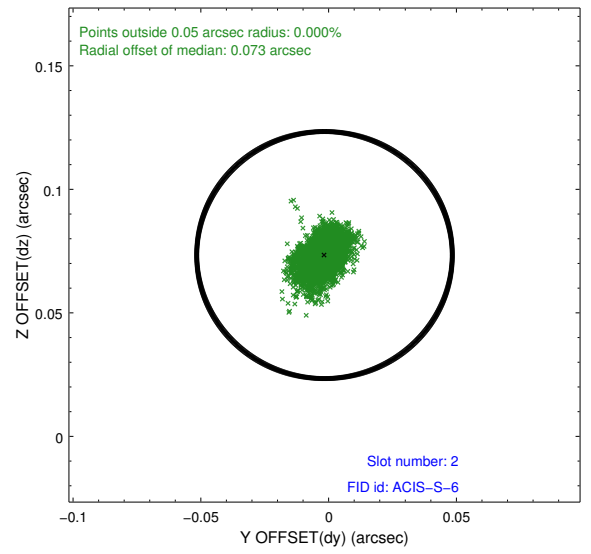
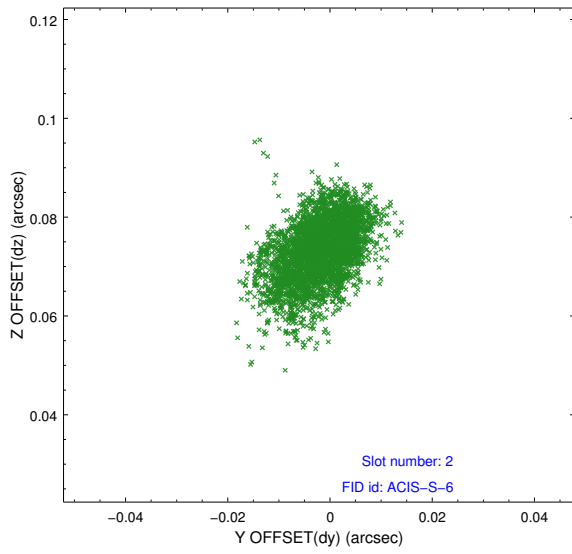
2.5.2 Slot 1



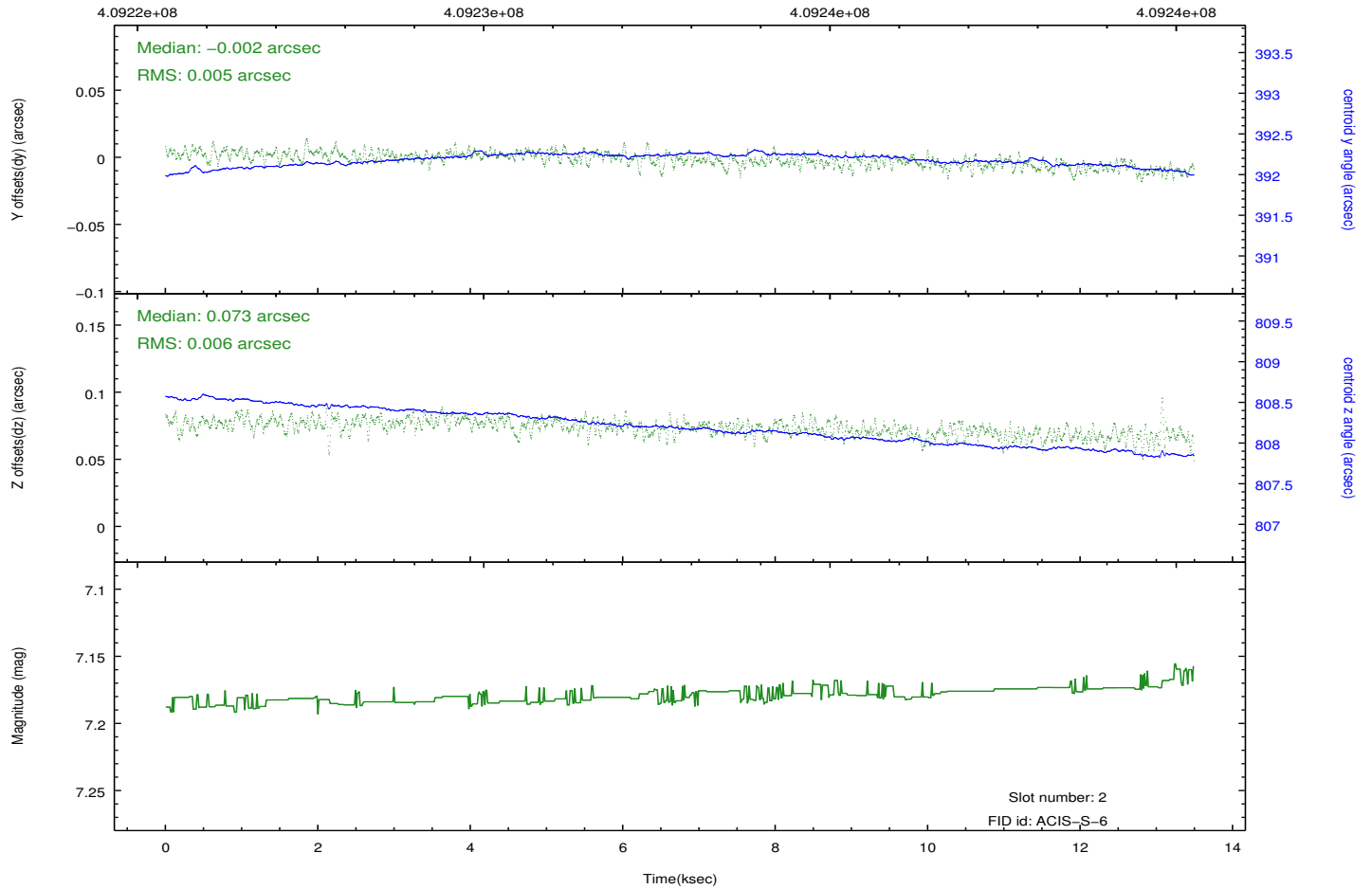
Time (s)



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.07.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	13.064499908447

A.2 Comments

Monitor constraint met, follows obs11554 by 161 days.