

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 3077 - L2 Version 3
Chandra X-Ray Center

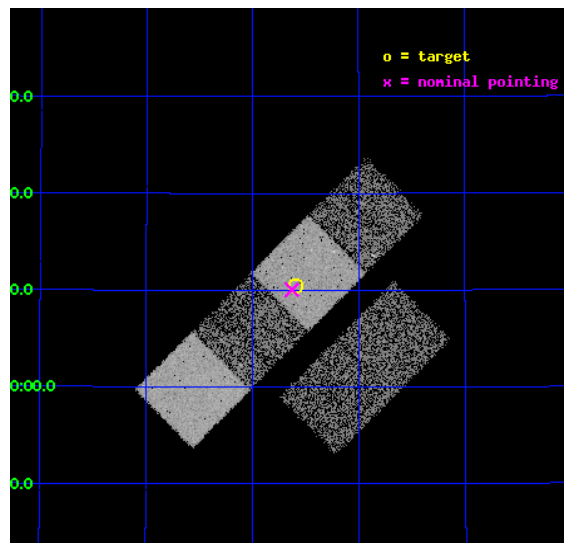
L2 Processing Date : Oct 14 2012

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

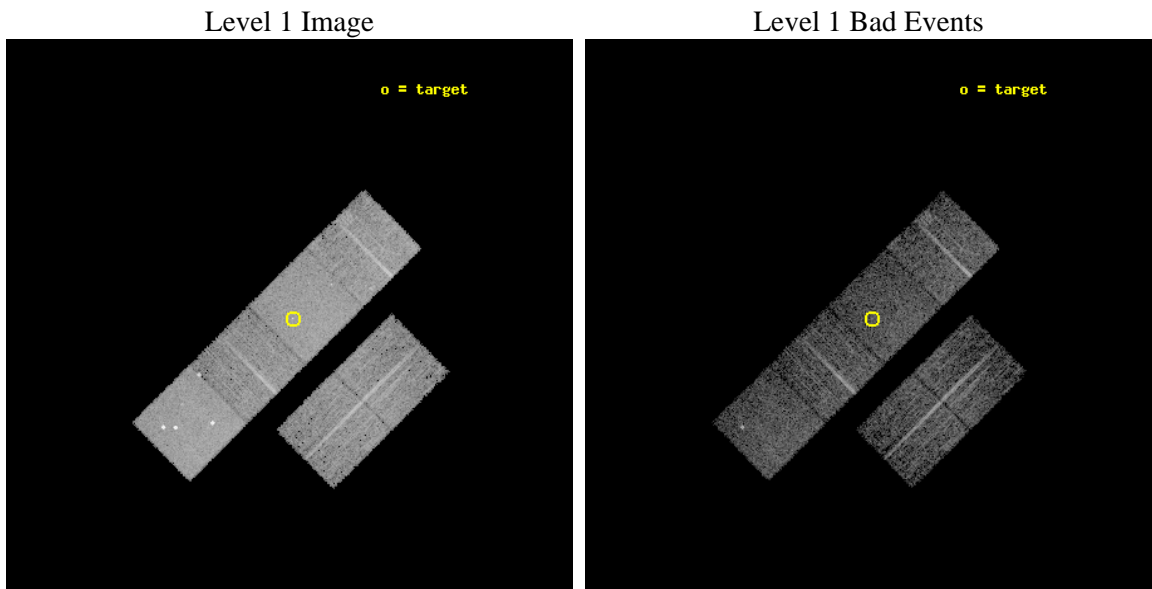
seq_num	700516	Sequence number
obs_id	3077	Observation id
title	X-RAY WEAK BROAD-LINE QUASARS: ABSORPTION OR INTRINSIC X_RAY WEAKNESS ?	Proposal title
observer	Dr Guido Risaliti	Principal investigator
object	HS 1422+4224	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	216.15	Observer's specified target RA [deg]
dec_targ	42.175167	Observer's specified target Dec [deg]
ra_nom	216.1574948403	Nominal RA [deg]
dec_nom	42.167342375443	Nominal Dec [deg]
roll_nom	315.15622854169	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5957.1893802881	Sum of GTIs [s]
livetime	5881.7558613661	Livetime [s]
ontime2	5957.2304202914	Sum of GTIs [s]
ontime3	5957.0662602782	Sum of GTIs [s]
ontime5	5957.1483402848	Sum of GTIs [s]
ontime6	5957.1073002815	Sum of GTIs [s]
ontime7	5957.1893802881	Sum of GTIs [s]
ontime8	5957.0252203047	Sum of GTIs [s]
l2events	58554	Number of level 2 events



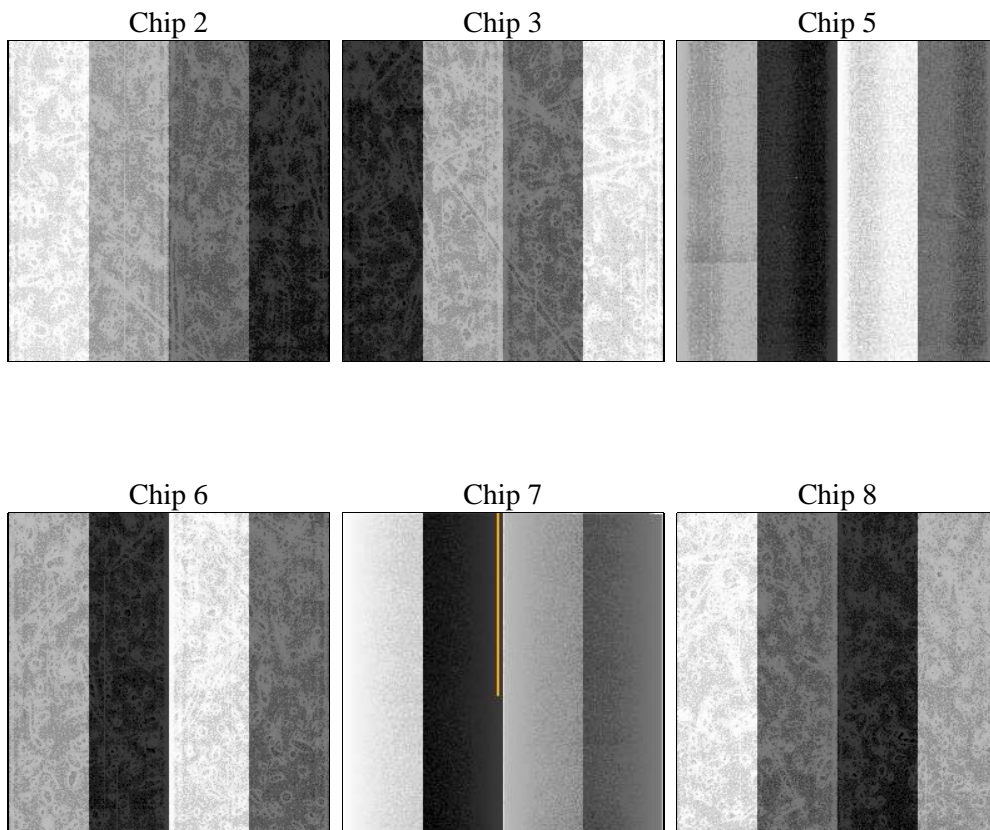
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5957.1893802881	Sum of GTIs [s]
caldbver	4.5.2	 	ontime2	5957.2304202914	Sum of GTIs [s]
date	2012-10-14T19:14:08	Date and time of file creation	ontime3	5957.0662602782	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	5957.1483402848	Sum of GTIs [s]
			ontime6	5957.1073002815	Sum of GTIs [s]
			ontime7	5957.1893802881	Sum of GTIs [s]
			ontime8	5957.0252203047	Sum of GTIs [s]
			l1events	263597	Number of level 1 events

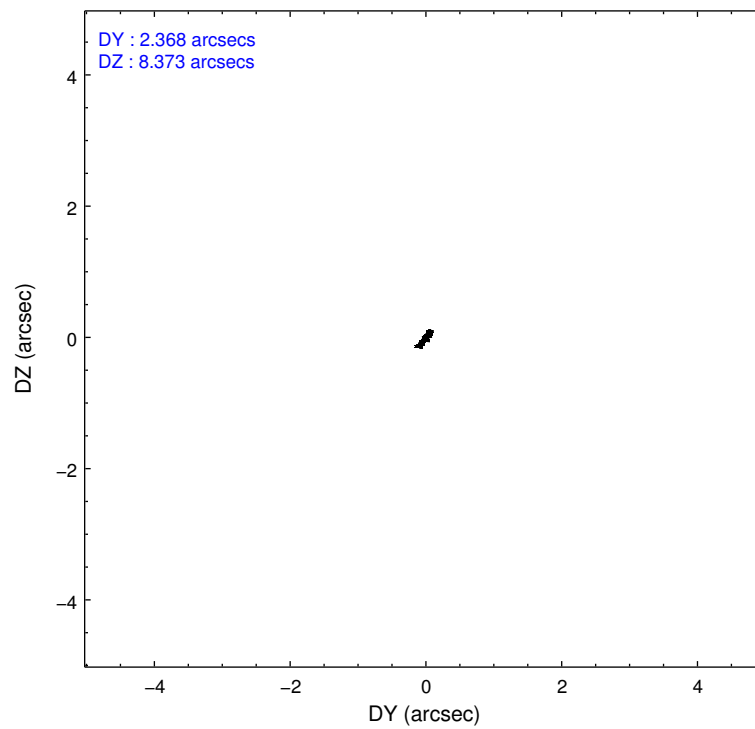
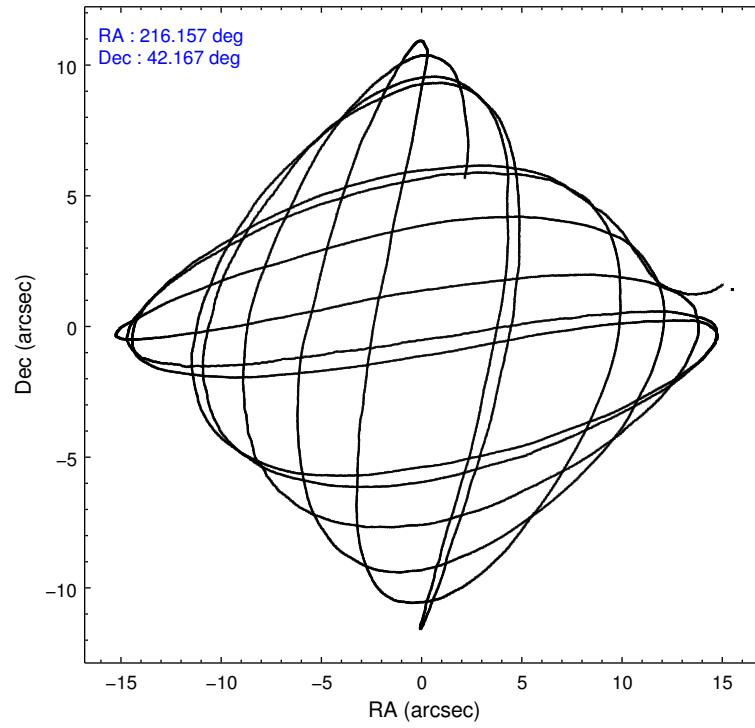
2.1.4 Events

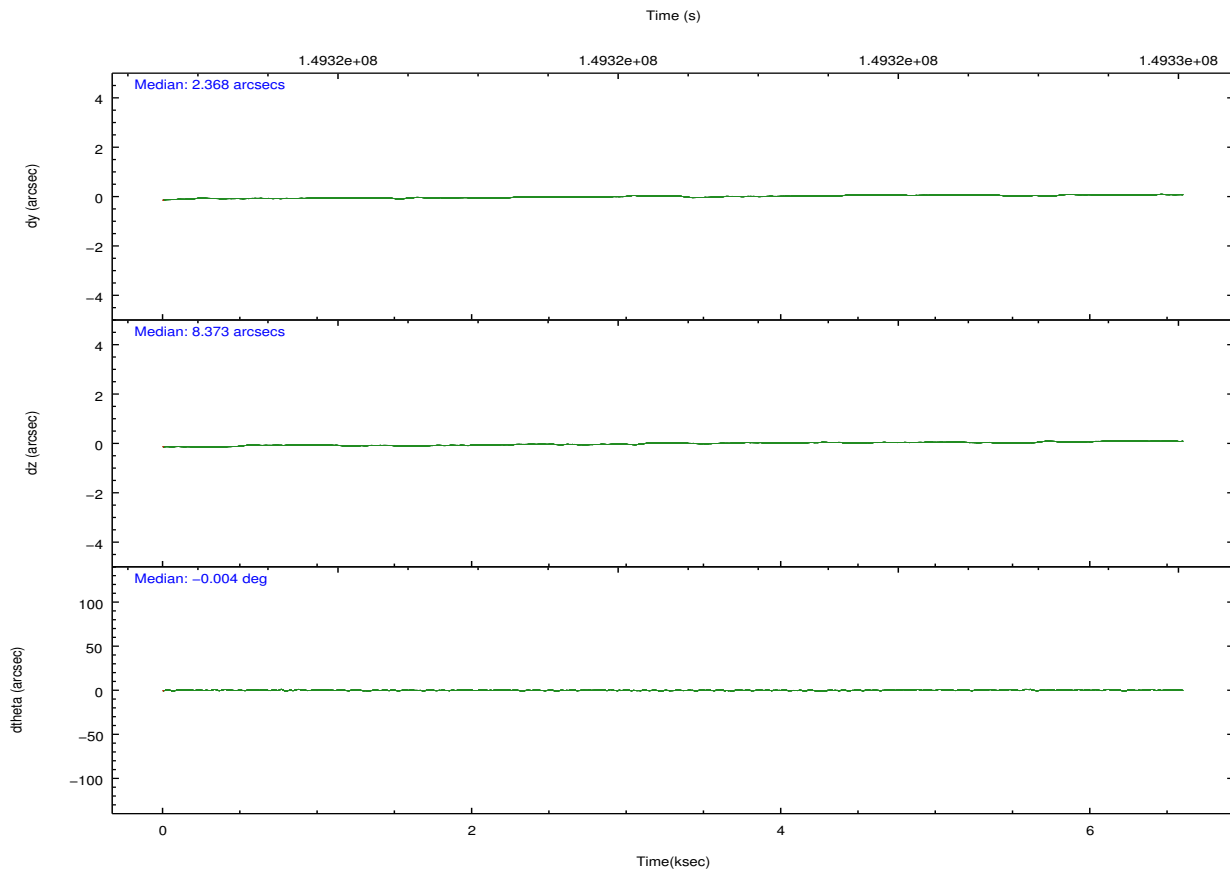
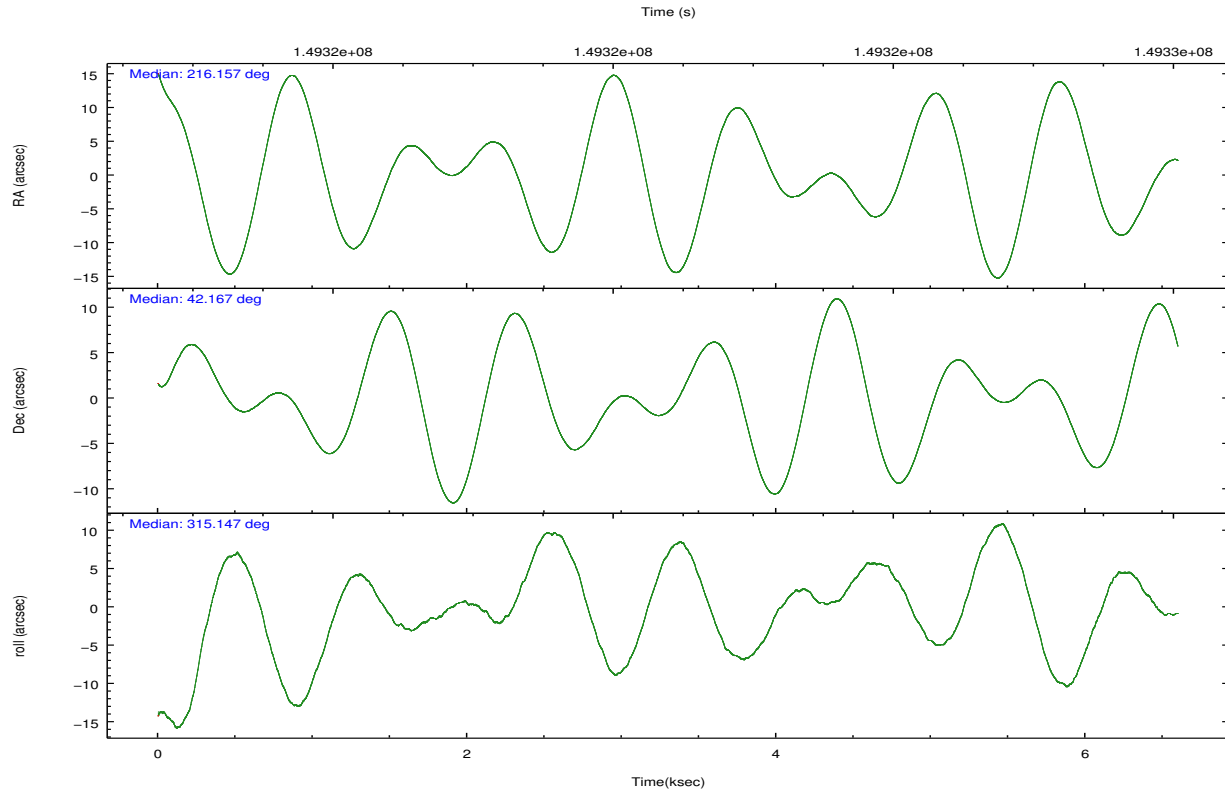
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	35909	35443	58523	36752	49508	47462	grade 0 events	1923	1786	6108	1829	2124	3006
rejected events	31616	31364	29937	32350	28827	37940		5%	5%	10%	4%	4%	6%
rejected %	88%	88%	51%	88%	58%	79%	grade 1 events	23	36	383	17	43	39
								0%	0%	0%	0%	0%	0%
							grade 2 events	807	746	7598	867	4036	2075
								2%	2%	12%	2%	8%	4%
							grade 3 events	424	436	1054	476	1801	1012
								1%	1%	1%	1%	3%	2%
							grade 4 events	428	448	1013	392	1807	956
								1%	1%	1%	1%	3%	2%
							grade 5 events	1353	1556	4063	1605	4712	2193
								3%	4%	6%	4%	9%	4%
							grade 6 events	714	669	12860	845	10929	2519
								1%	1%	21%	2%	22%	5%
							grade 7 events	30237	29766	25444	30721	24056	35662
								84%	83%	43%	83%	48%	75%

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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	216.121855	216.1574948403	Subarray requested	NONE	NONE
[deg] Pointing Dec	42.173861	42.16734237544319	Alternating exposures requested	N	N
[deg] Pointing Roll	315.023530	315.1562285416878	[s] Primary exposure time	0.000000	3.2
[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)	149319691.184000	149318528.65334			
Observation start date	2002-09-25T05:40:27	2002-09-25T05:22:08			
[s] Observation end time (MET)	149325691.184000	149326293.02866			
Observation end date	2002-09-25T07:20:27	2002-09-25T07:31:33			
Read mode	TIMED	TIMED			

2.3 Aspect



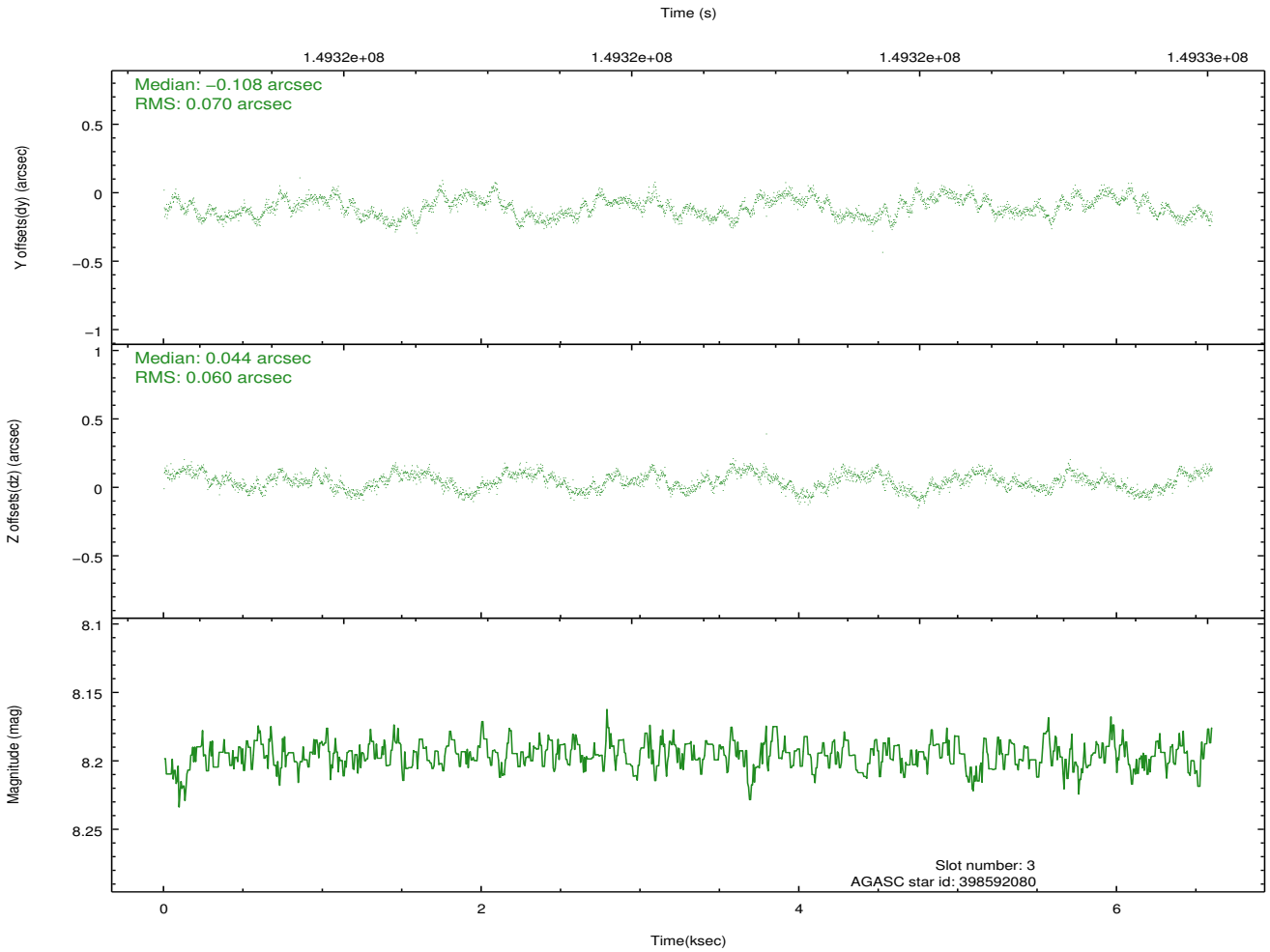
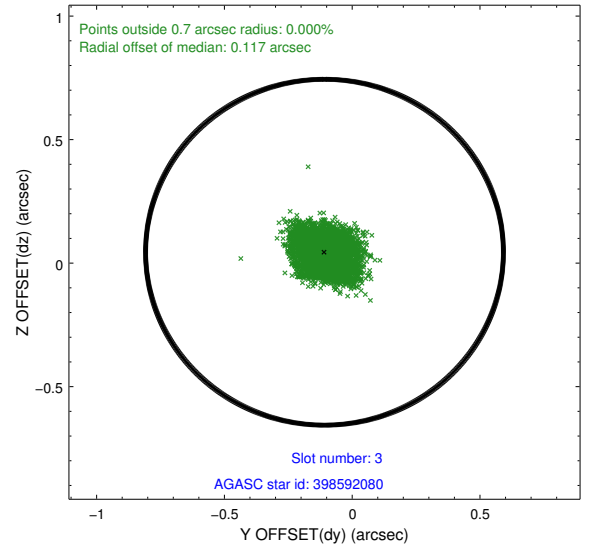
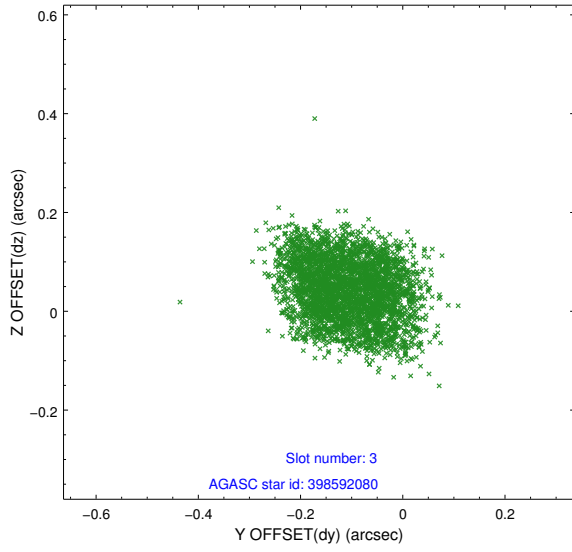


Slot Statistics

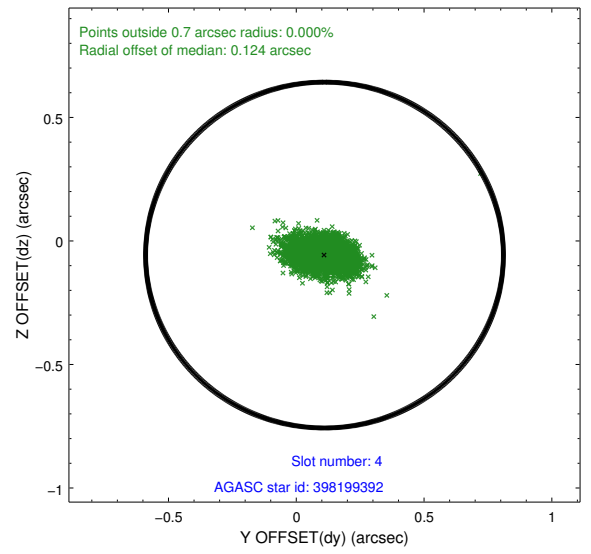
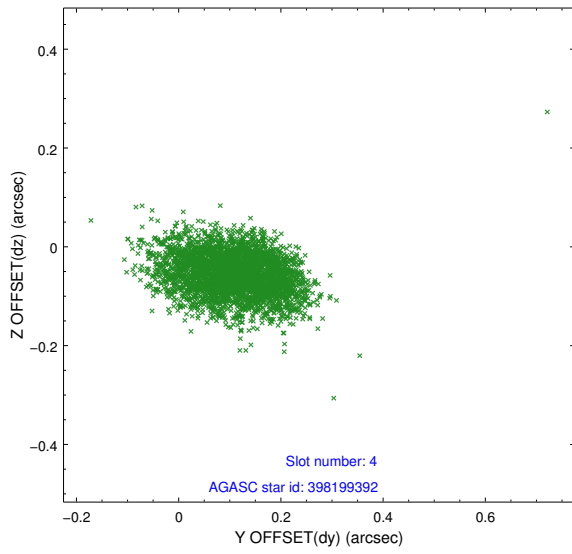
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	1610	-0.019	-0.011	0.012	0.021	0.000000	0.000000	-755.02	-1729.56
1	FID	ACIS-S-4	7.20	1610	-0.015	0.012	0.014	0.028	0.000000	0.000000	2157.87	178.00
2	FID	ACIS-S-5	7.24	1610	0.005	0.007	0.011	0.019	0.000000	0.000000	-1806.68	172.71
3	GUIDE	398592080	8.20	3220	-0.108	0.044	0.100	0.150	216.056075	42.661607	-1363.64	1119.15
4	GUIDE	398199392	8.42	3219	0.110	-0.057	0.089	0.145	216.203912	41.275106	2445.20	-2131.61
5	GUIDE	398199408	8.97	3217	-0.054	-0.069	0.070	0.113	216.068323	41.729041	1032.09	-1234.69
6	GUIDE	398329080	9.09	3218	0.030	-0.013	0.084	0.132	216.904044	41.848754	2305.62	661.76
7	GUIDE	398201208	8.94	3215	0.023	0.098	0.083	0.133	216.509925	42.218085	619.40	846.30

2.4 Star Slots

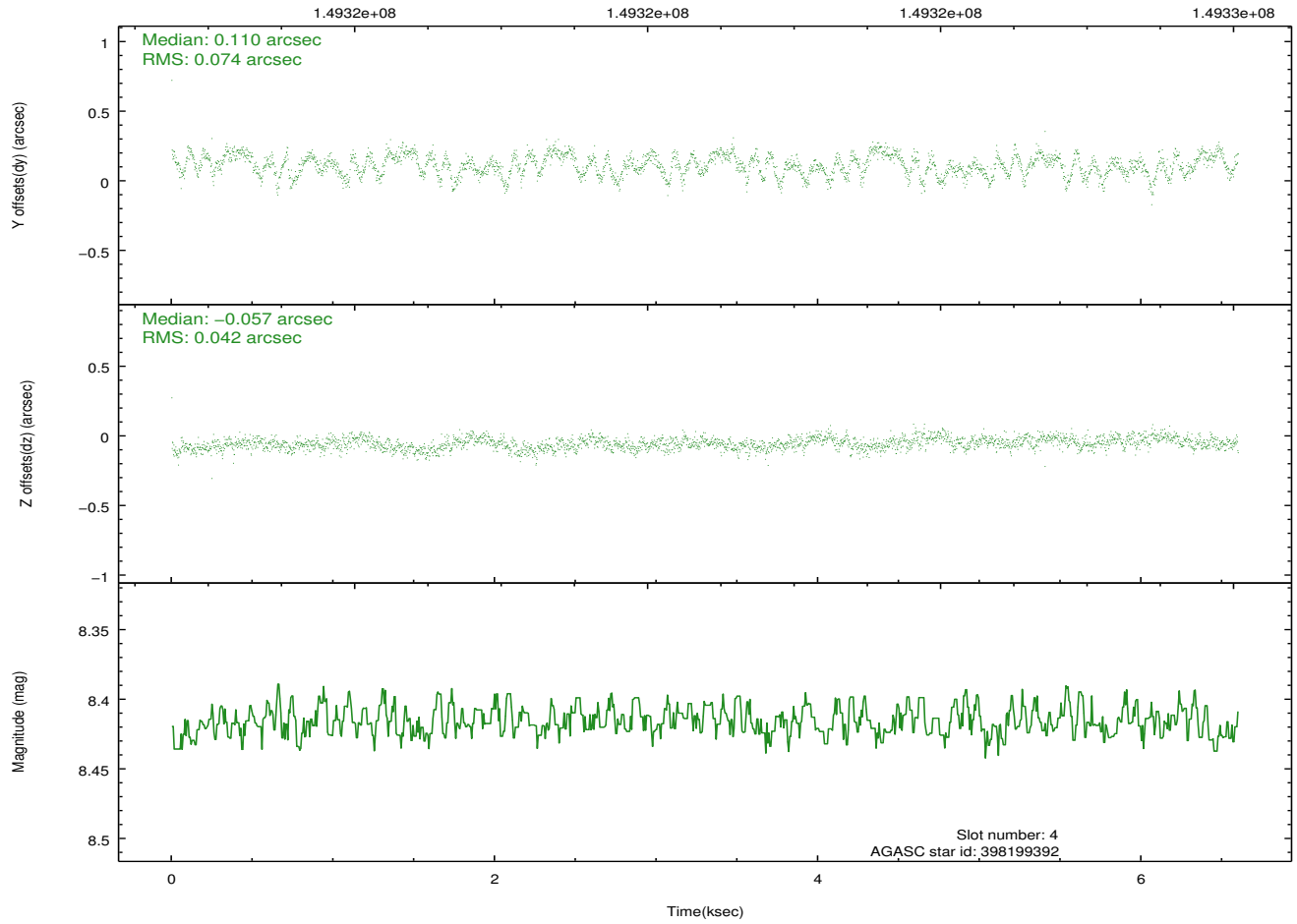
2.4.1 Slot 3



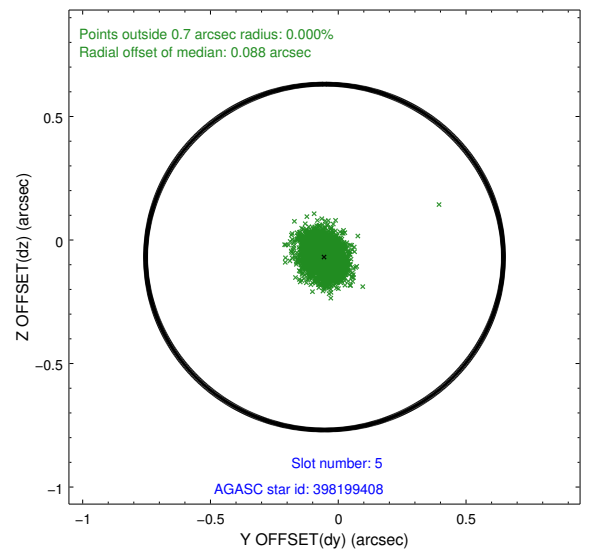
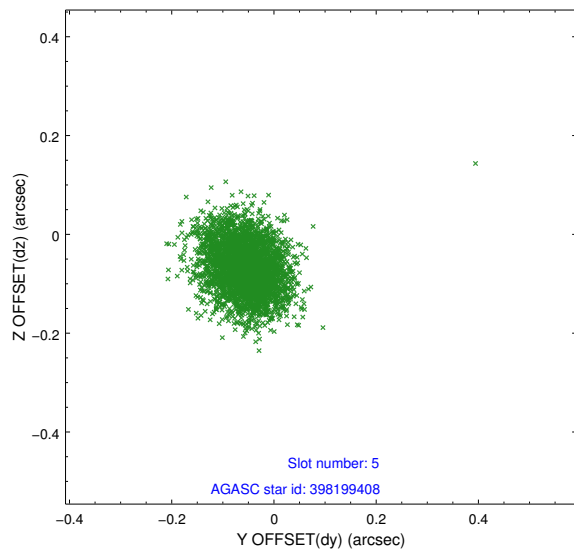
2.4.2 Slot 4



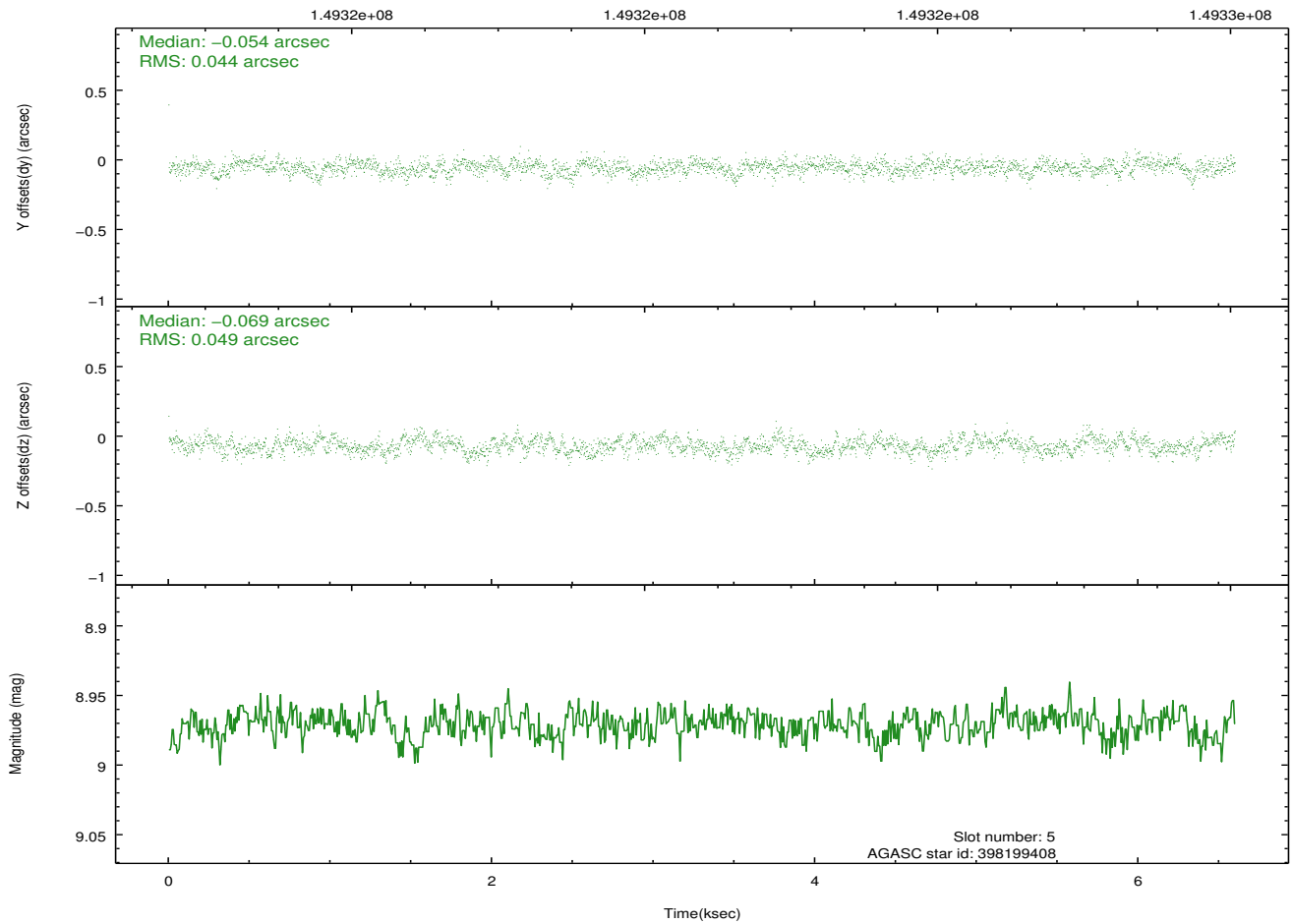
Time (s)



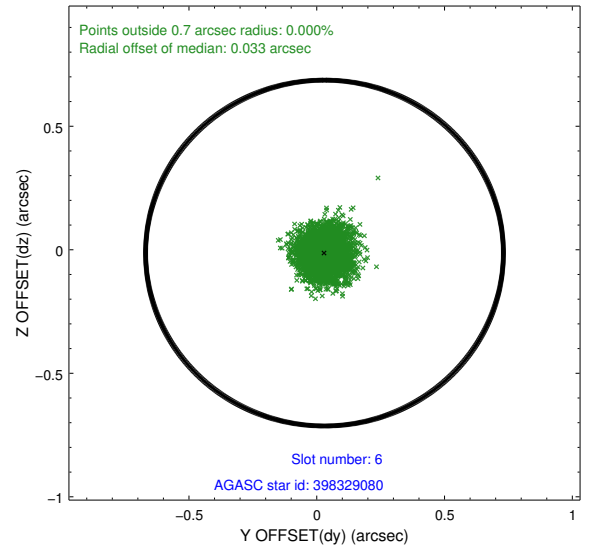
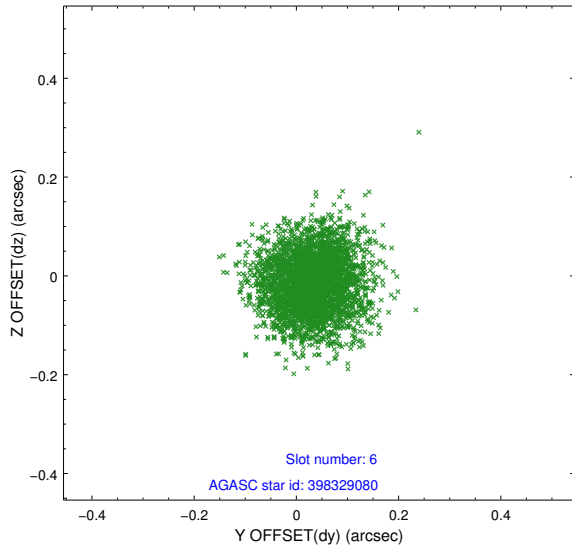
2.4.3 Slot 5



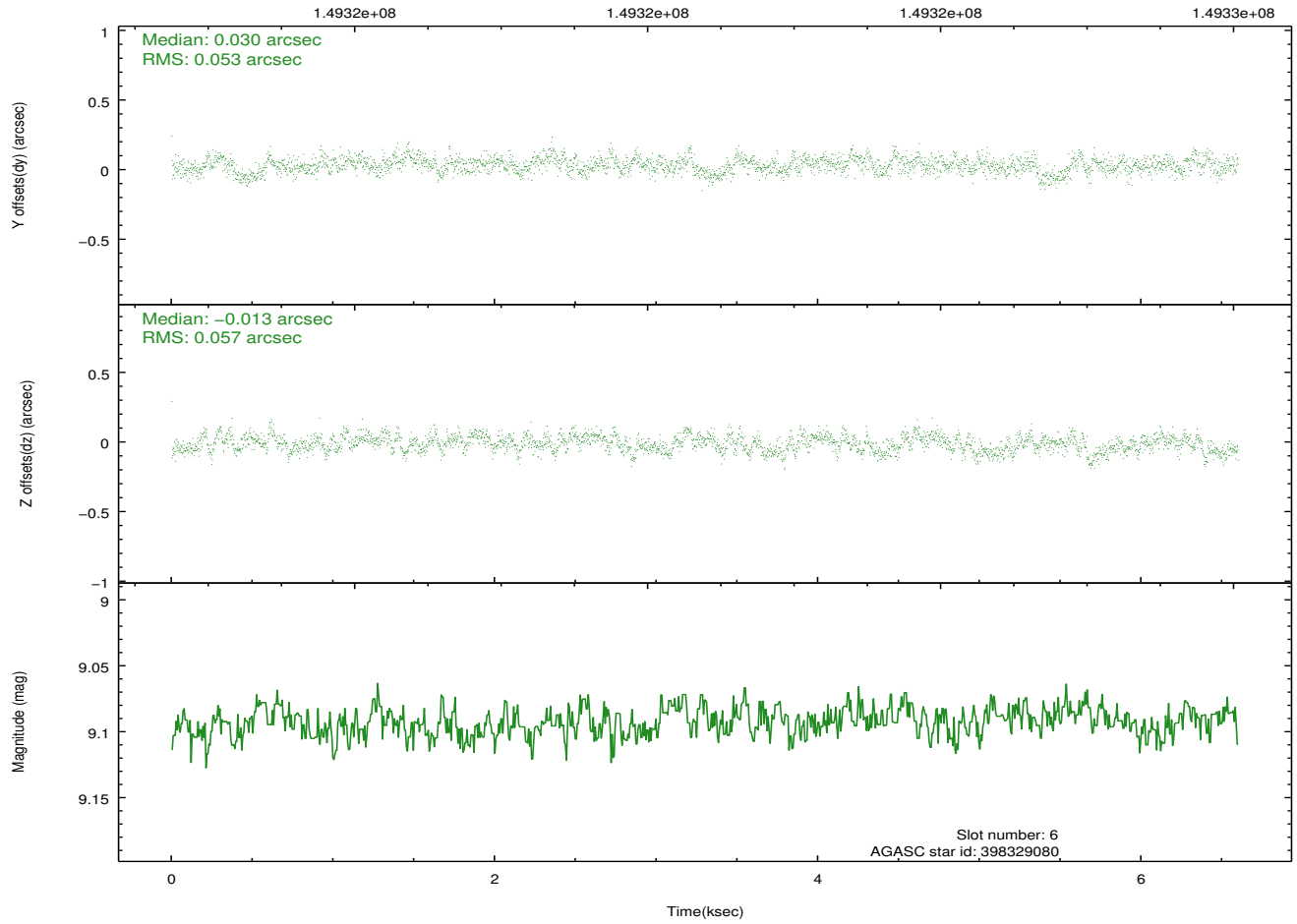
Time (s)



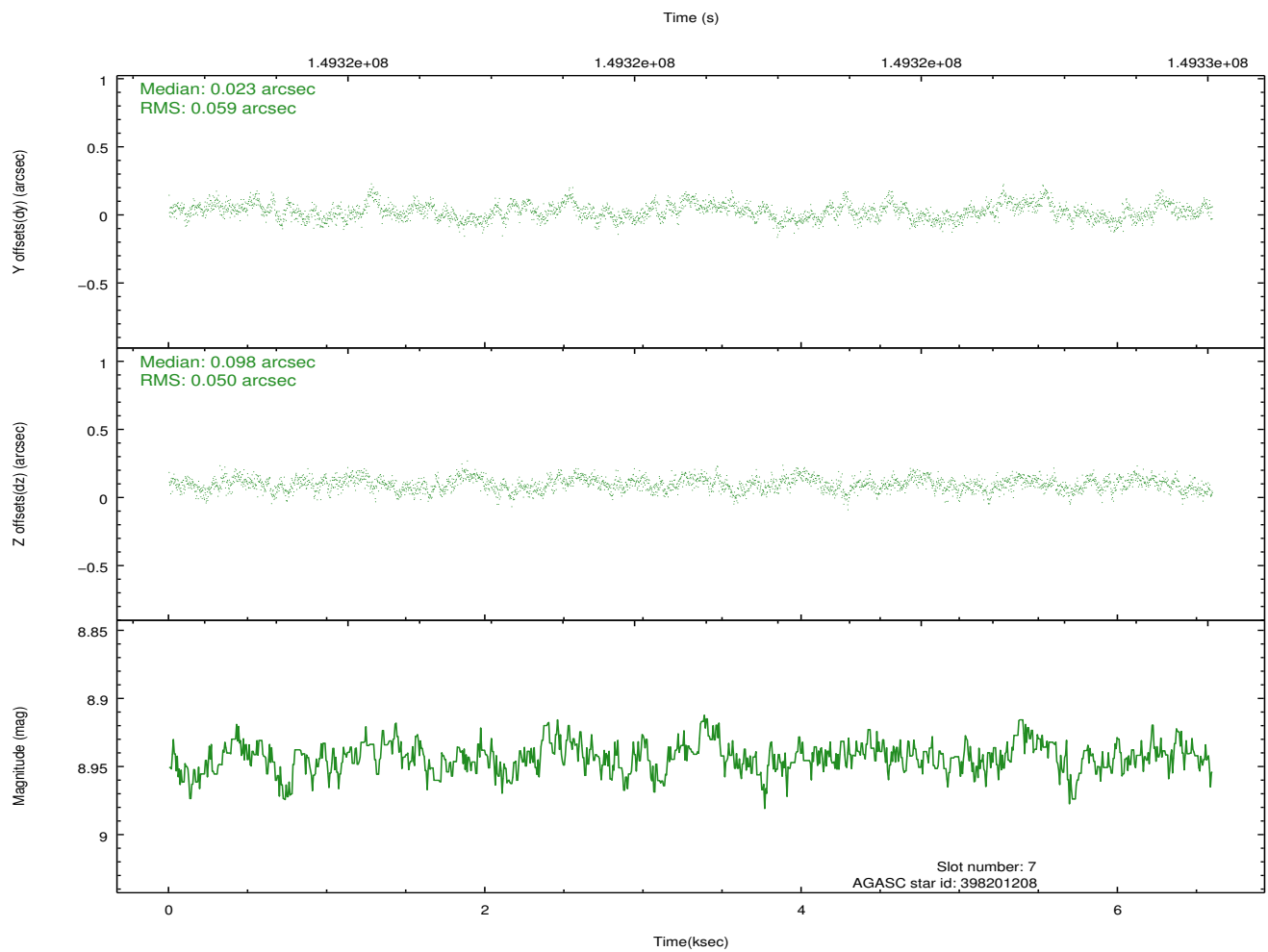
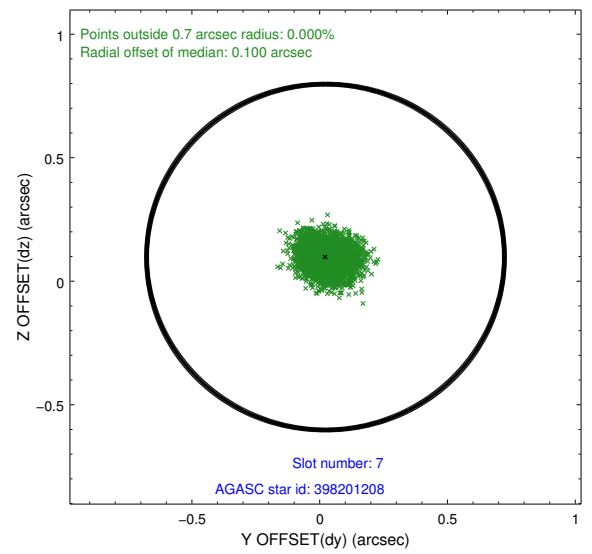
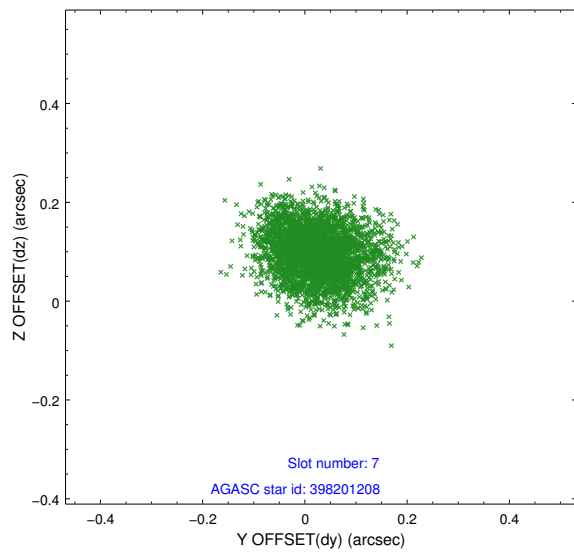
2.4.4 Slot 6



Time (s)

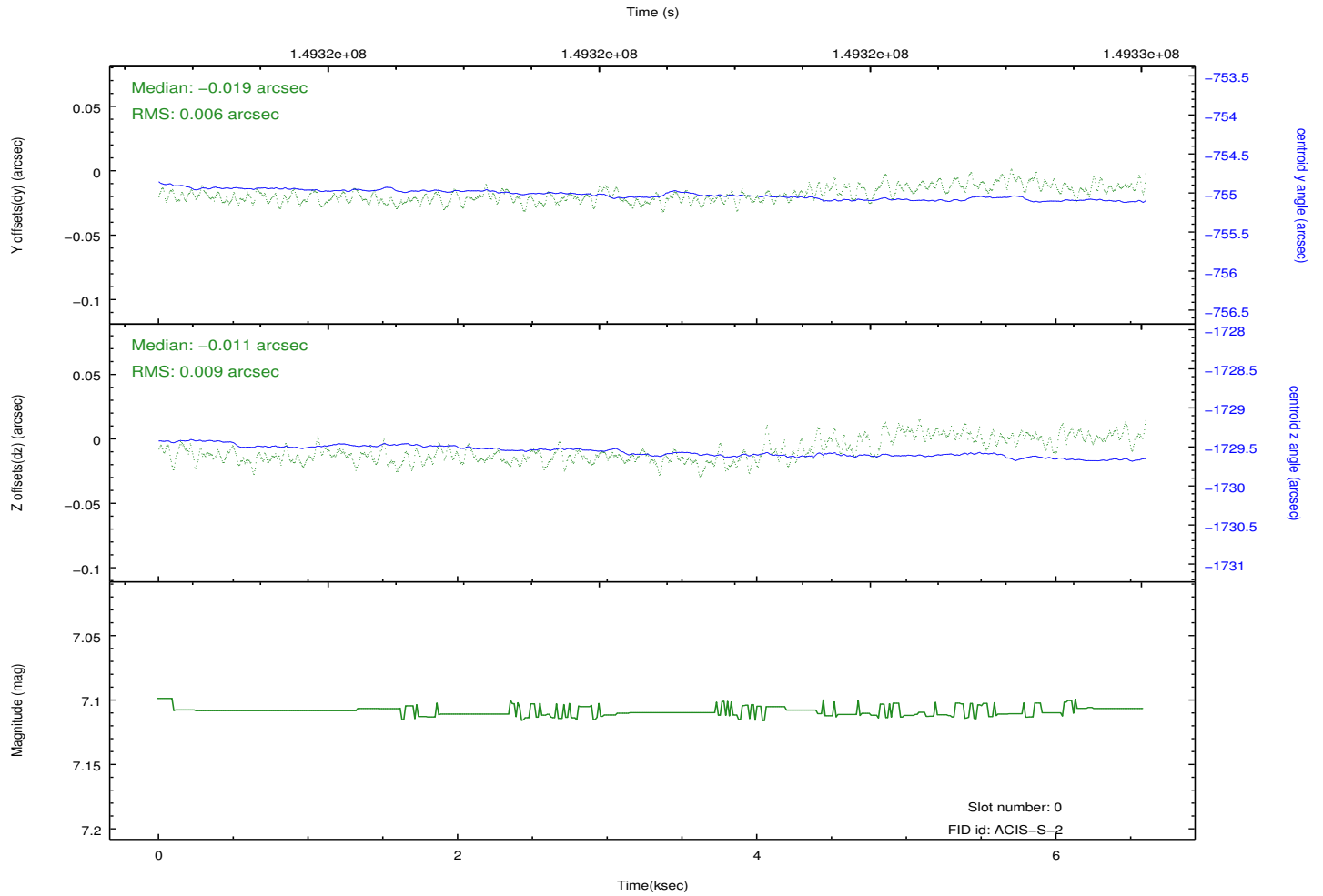
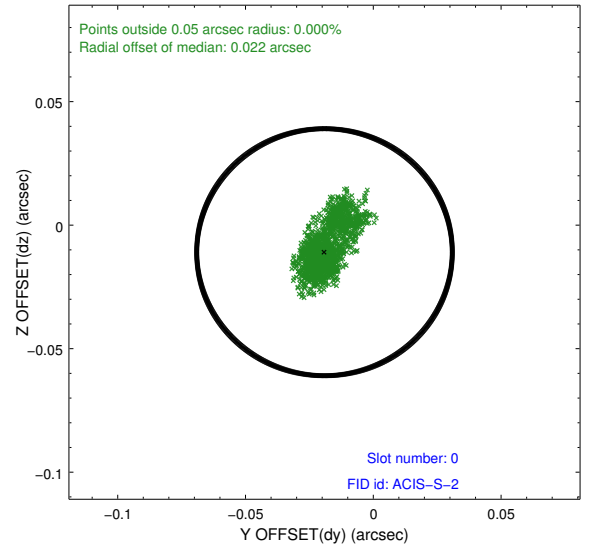
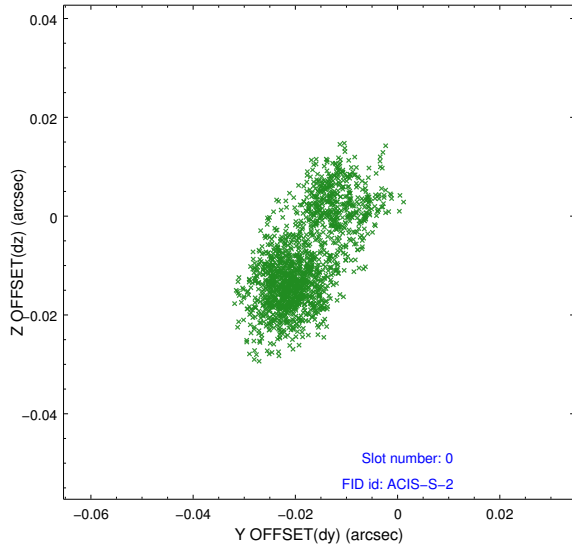


2.4.5 Slot 7

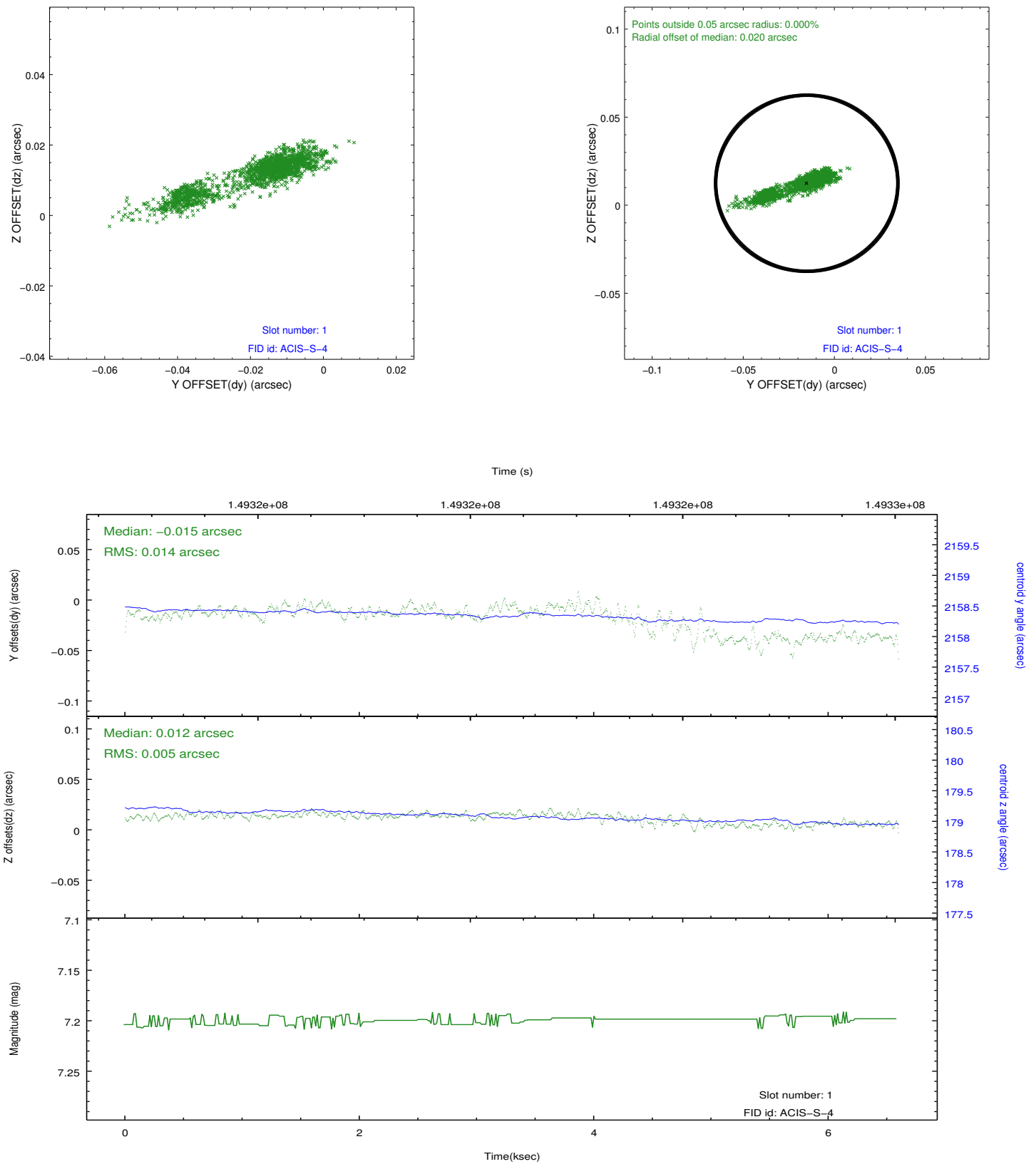


2.5 FID Slots

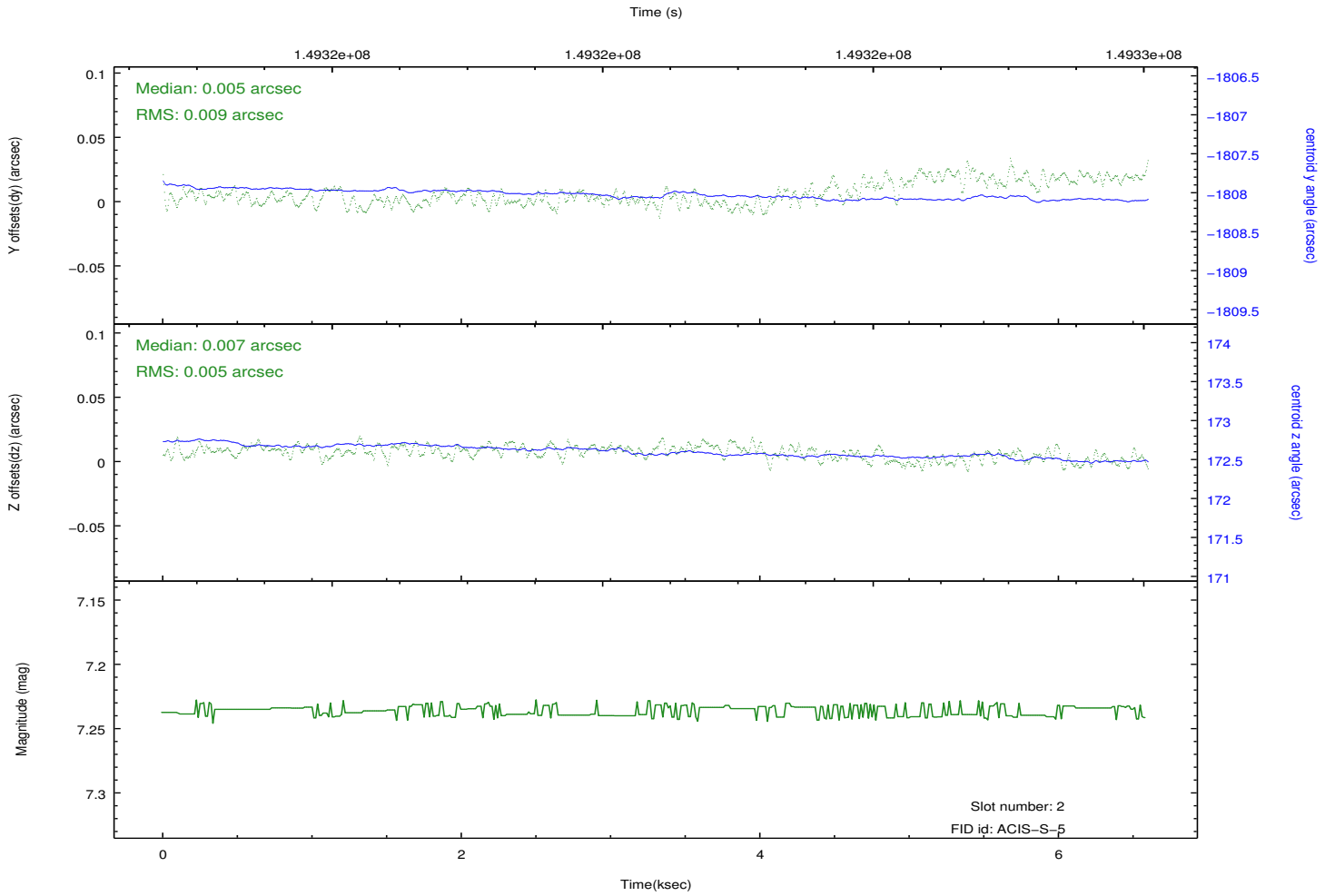
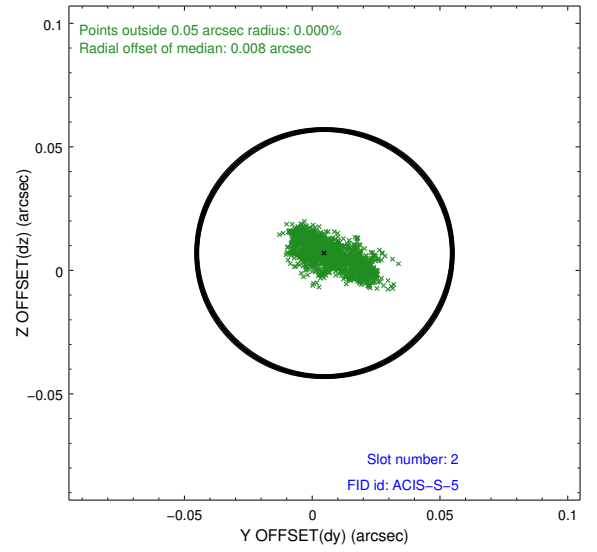
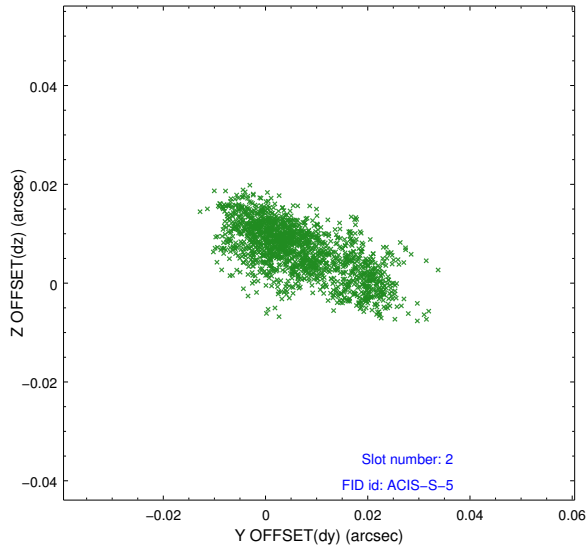
2.5.1 Slot 0



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)	2012.10.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.958

A.2 Comments