

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 11367 - L2 Version 2
Chandra X-Ray Center

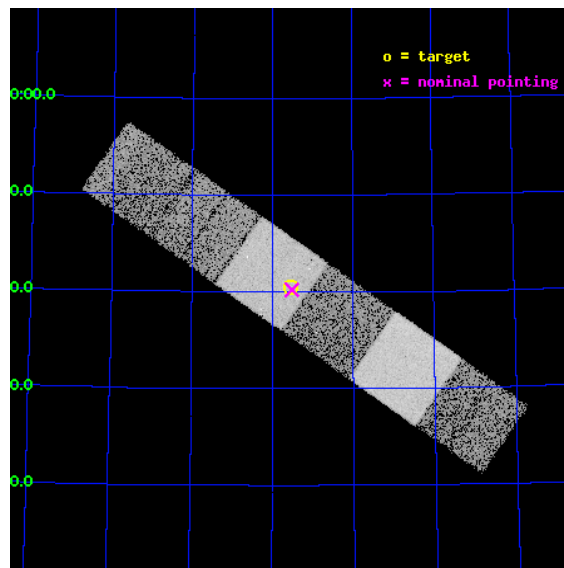
L2 Processing Date : Jun 25 2012

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

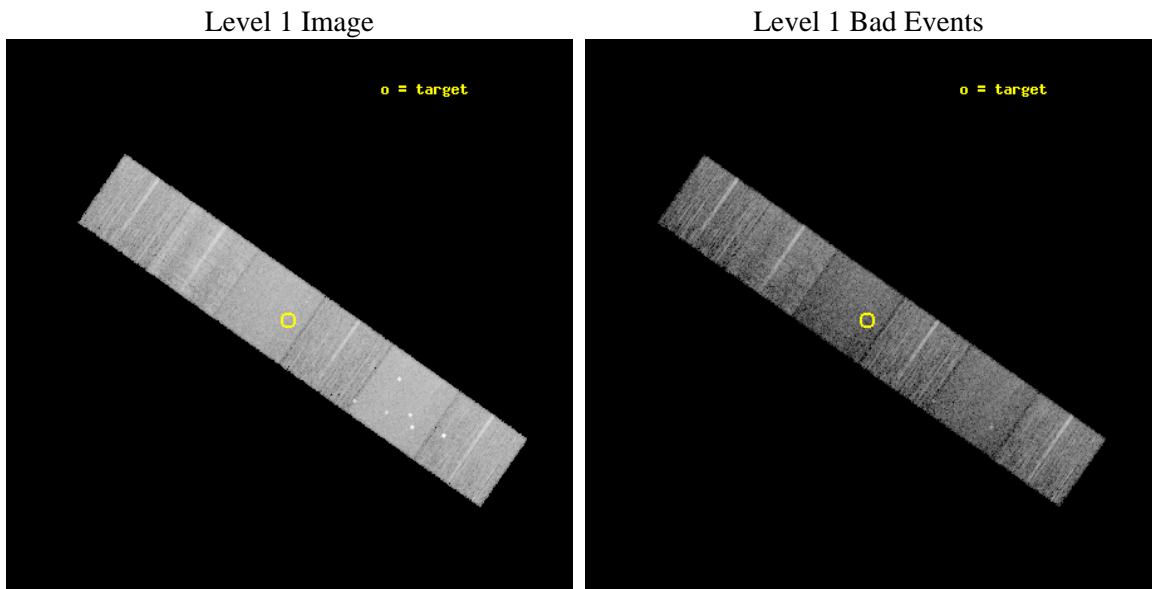
seq_num	600886	Sequence number
obs_id	11367	Observation id
title	Accretion onto nuclear black holes in early type galaxies: comparing field vs. clusters	Proposal title
observer	Elena Gallo	Principal investigator
object	UGC07767	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	188.886	Observer's specified target RA [deg]
dec_targ	73.67483	Observer's specified target Dec [deg]
ra_nom	188.87916892598	Nominal RA [deg]
dec_nom	73.670340048081	Nominal Dec [deg]
roll_nom	214.99651636714	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8652.7999678254	Sum of GTIs [s]
livetime	8543.2330045422	Livetime [s]
ontime4	8652.7999678254	Sum of GTIs [s]
ontime5	8652.7999678254	Sum of GTIs [s]
ontime6	8652.7999678254	Sum of GTIs [s]
ontime7	8652.7999678254	Sum of GTIs [s]
ontime8	8649.5589974523	Sum of GTIs [s]
ontime9	8649.5589776039	Sum of GTIs [s]
l2events	104956	Number of level 2 events



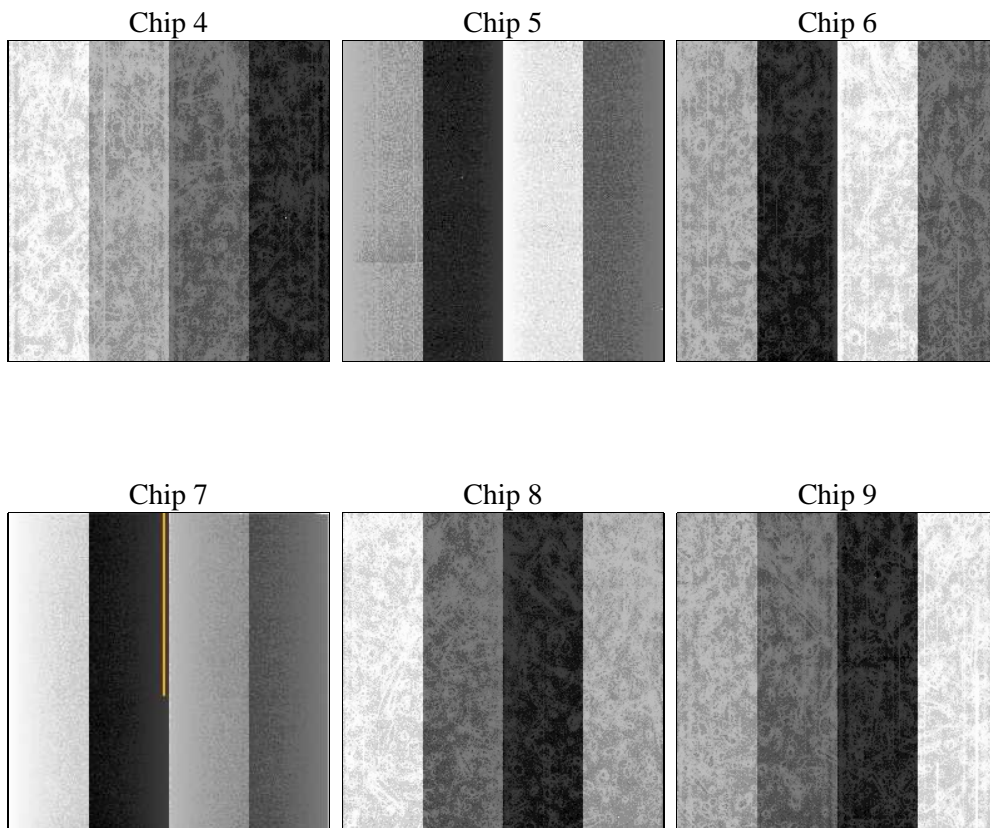
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8900.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	8652.7999678254	Sum of GTIs [s]
caldbver	4.4.10	 	ontime4	8652.7999678254	Sum of GTIs [s]
date	2012-06-25T10:01:38	Date and time of file creation	ontime5	8652.7999678254	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	8652.7999678254	Sum of GTIs [s]
			ontime7	8652.7999678254	Sum of GTIs [s]
			ontime8	8649.5589974523	Sum of GTIs [s]
			ontime9	8649.5589776039	Sum of GTIs [s]
			l1events	467318	Number of level 1 events

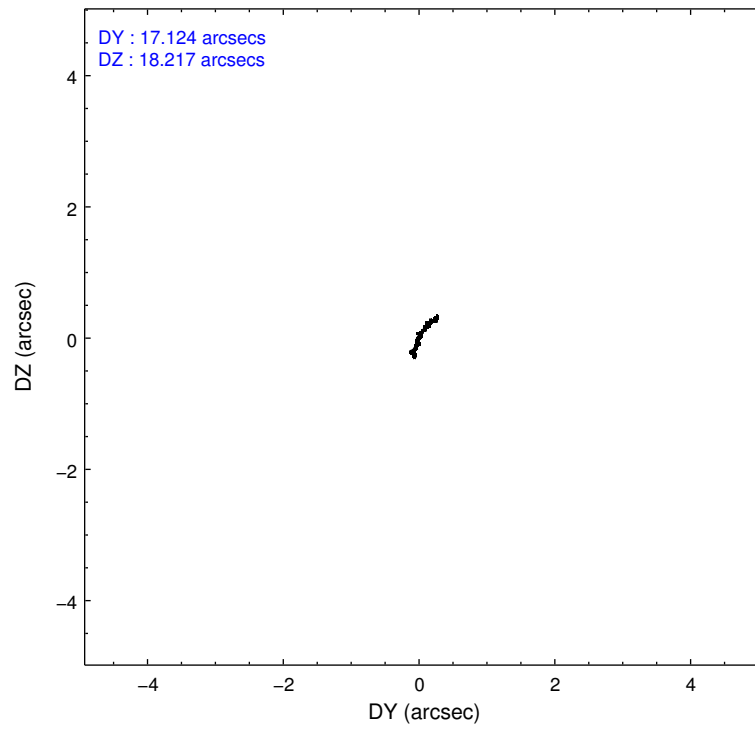
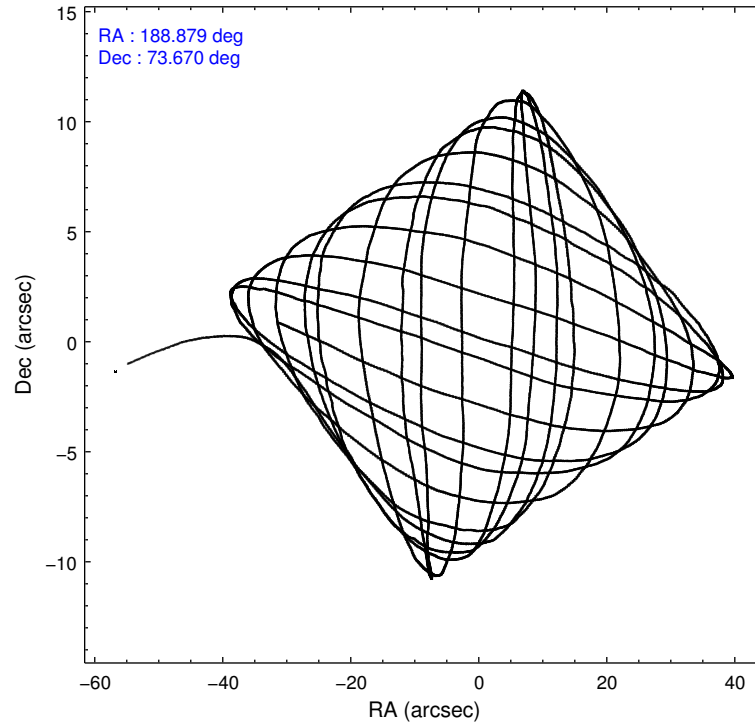
2.1.4 Events

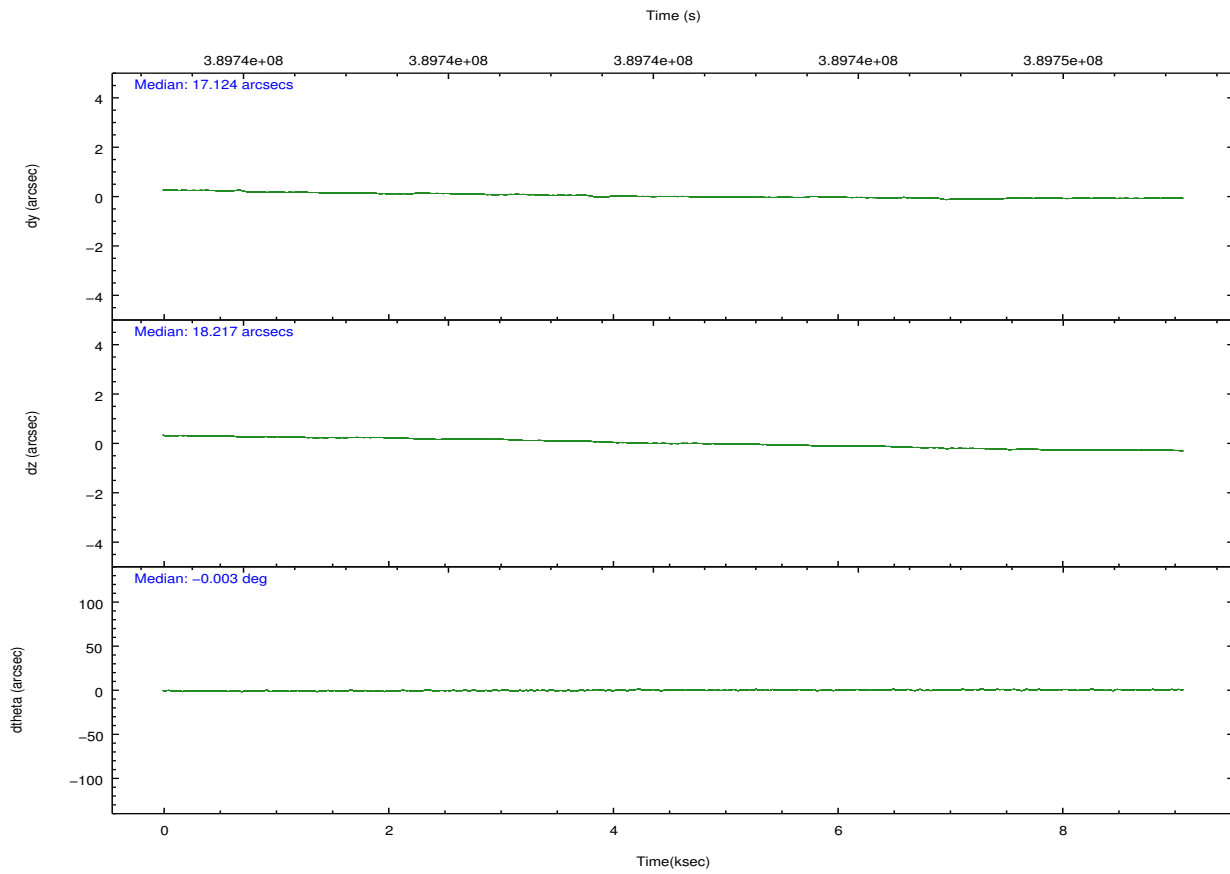
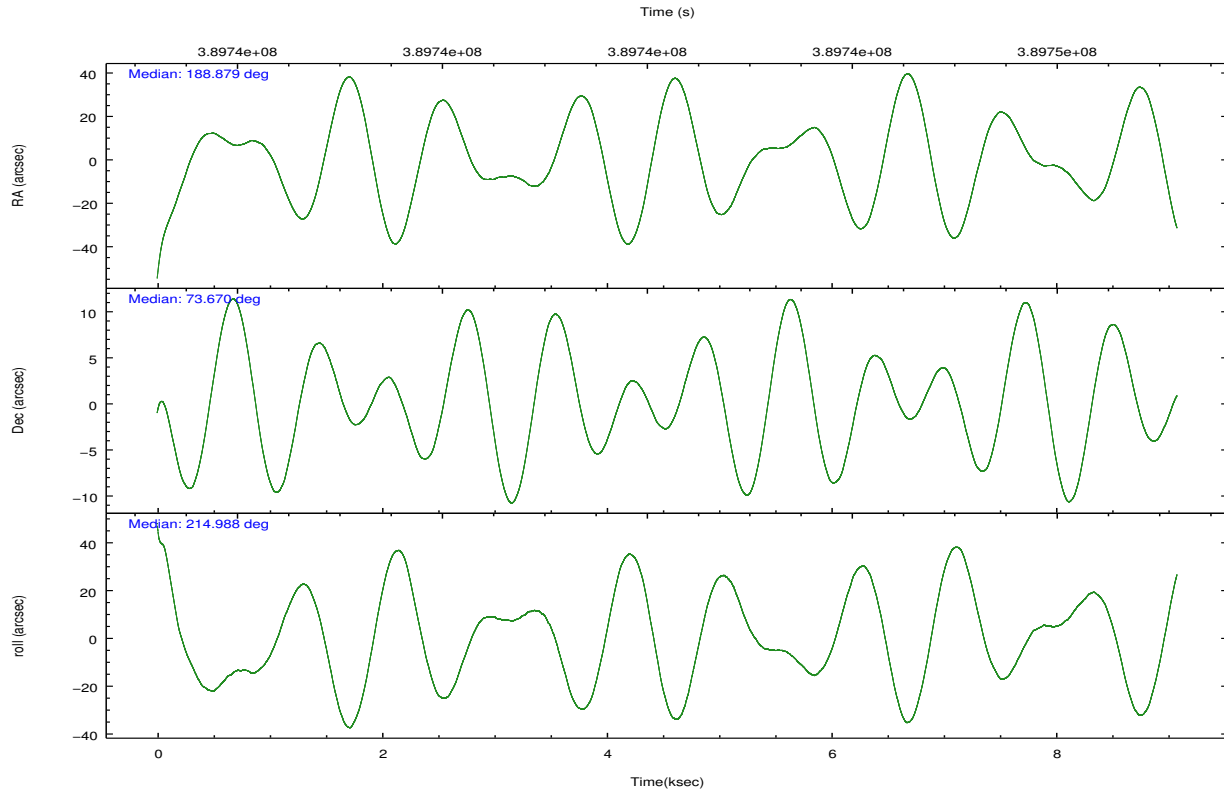
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	75439	98846	63488	78005	86379	65161	grade 0 events	4948	6265	2480	3429	6671	2714
rejected events	65816	49395	56395	42638	63568	57591		6%	6%	3%	4%	7%	4%
rejected %	87%	49%	88%	54%	73%	88%	grade 1 events	82	238	30	70	71	50
								0%	0%	0%	0%	0%	0%
							grade 2 events	1832	14583	1540	7209	5511	1634
								2%	14%	2%	9%	6%	2%
							grade 3 events	809	1788	773	3188	2203	800
								1%	1%	1%	4%	2%	1%
							grade 4 events	742	1787	757	3124	2102	818
								0%	1%	1%	4%	2%	1%
							grade 5 events	2880	7482	2851	8129	4235	3037
								3%	7%	4%	10%	4%	4%
							grade 6 events	1297	25071	1547	18444	6368	1610
								1%	25%	2%	23%	7%	2%
							grade 7 events	62849	41632	53510	34412	59218	54498
								83%	42%	84%	44%	68%	83%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	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	188.919141	188.8791689259829	CCD I2 on	N	N
[deg] Pointing Dec	73.695304	73.67034004808121	CCD I3 on	N	N
[deg] Pointing Roll	214.801542	214.9965163671428	CCD S0 on	O1	Y
[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)	389737834.184000	389736700.2095	CCD S5 on	O2	Y
Observation start date	2010-05-08T20:29:28	2010-05-08T20:11:40	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	389746734.184000	389747612.87256	On-chip summing requested	N	N
Observation end date	2010-05-08T22:57:48	2010-05-08T23:13:32	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



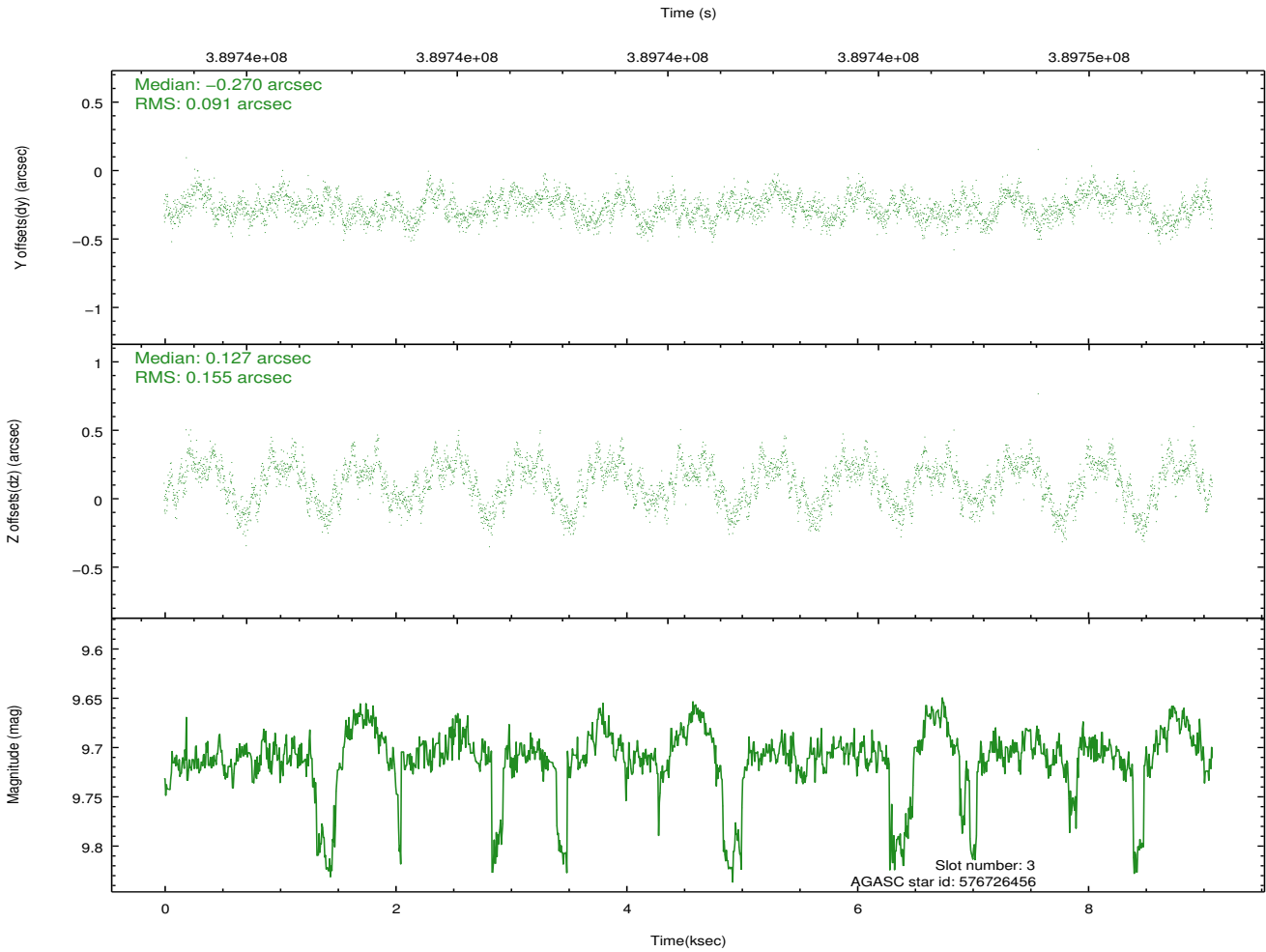
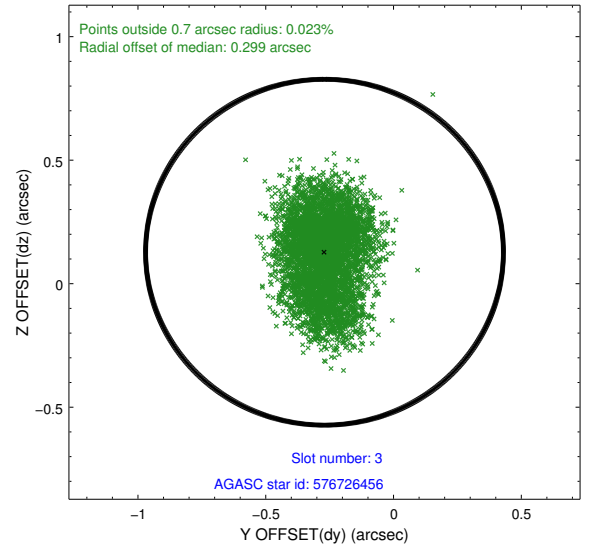
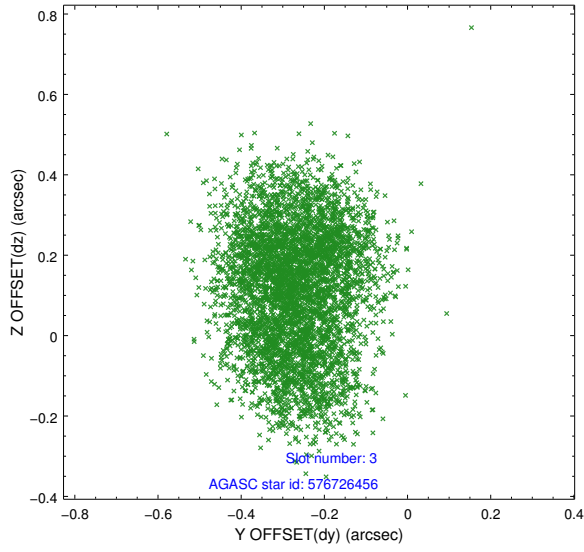


Slot Statistics

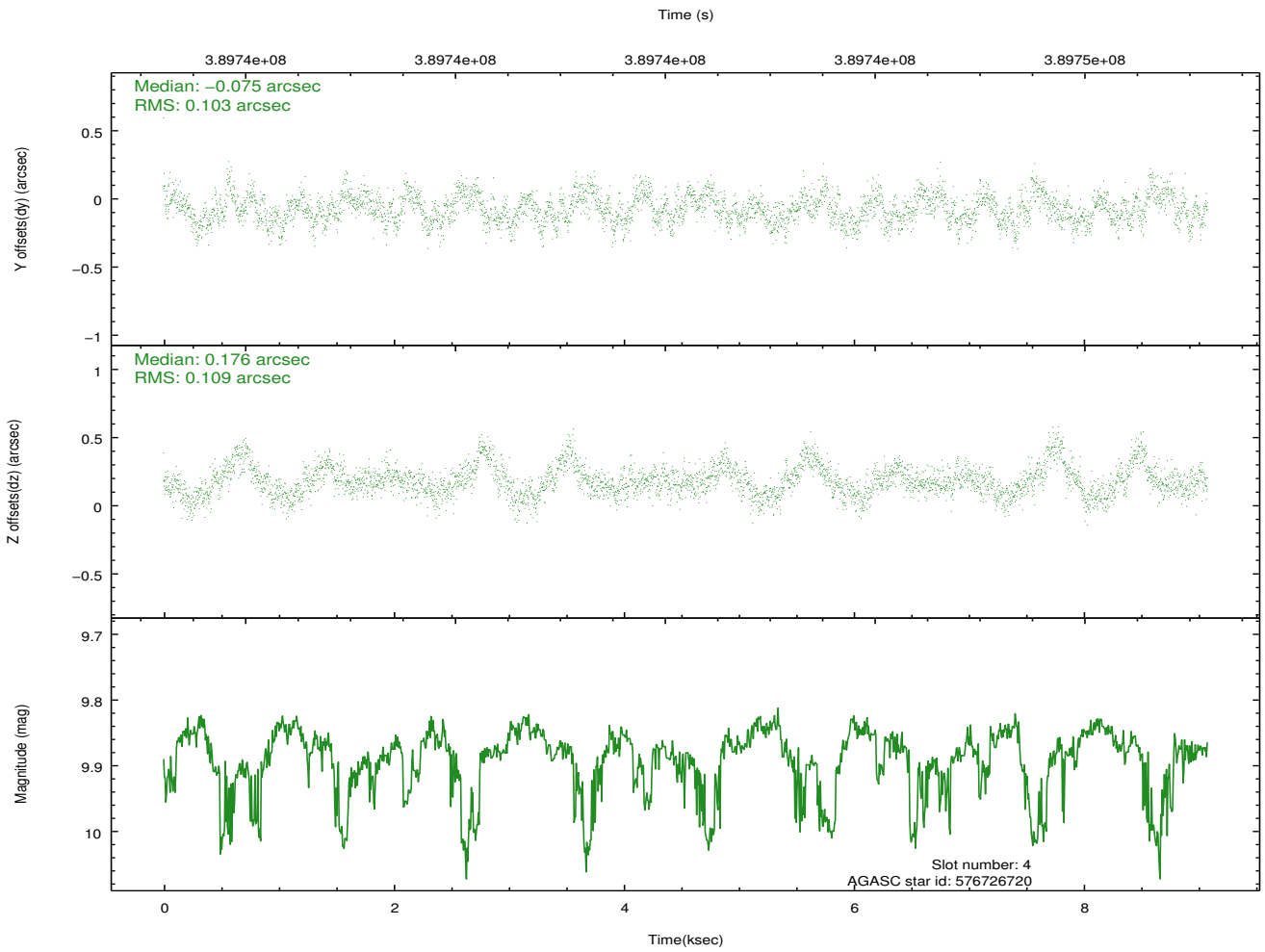
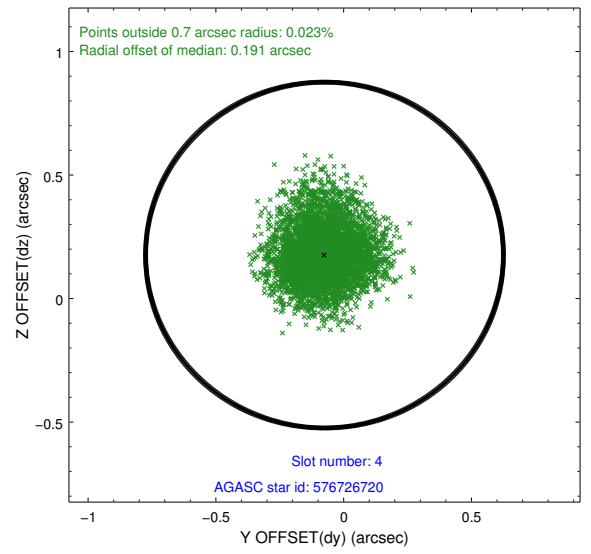
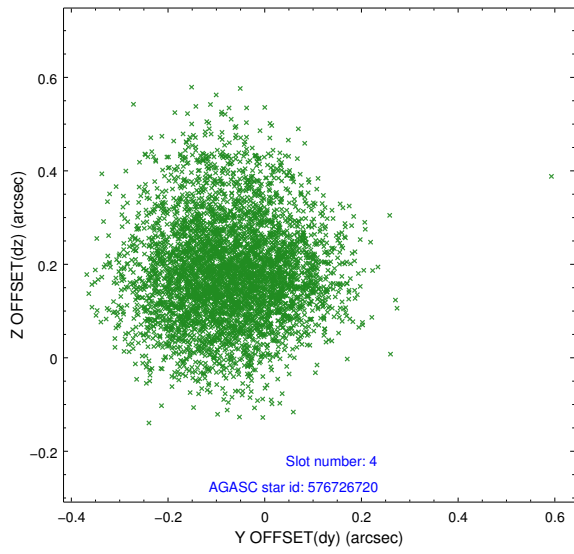
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.86	2215	-0.049	-0.023	0.006	0.010	0.000000	0.000000	-770.27	-1739.65
1	FID	ACIS-S-4	6.95	2215	0.133	0.030	0.006	0.012	0.000000	0.000000	2142.95	168.21
2	FID	ACIS-S-5	6.98	2215	-0.115	0.002	0.007	0.012	0.000000	0.000000	-1822.37	162.61
3	GUIDE	576726456	9.71	4411	-0.270	0.127	0.193	0.309	189.182314	73.056474	1085.23	2045.90
4	GUIDE	576726720	9.88	4407	-0.075	0.176	0.162	0.258	186.635188	73.730106	1795.15	-1452.09
5	GUIDE	576727904	9.46	4403	-0.029	0.259	0.138	0.215	189.525199	73.518884	-146.78	872.18
6	GUIDE	576720200	9.46	4421	0.016	0.165	0.130	0.213	187.836378	74.278525	-335.99	-2334.29
7	GUIDE	576721160	9.79	4425	0.346	-0.712	0.148	0.231	189.130895	73.318669	594.30	1236.88

2.4 Star Slots

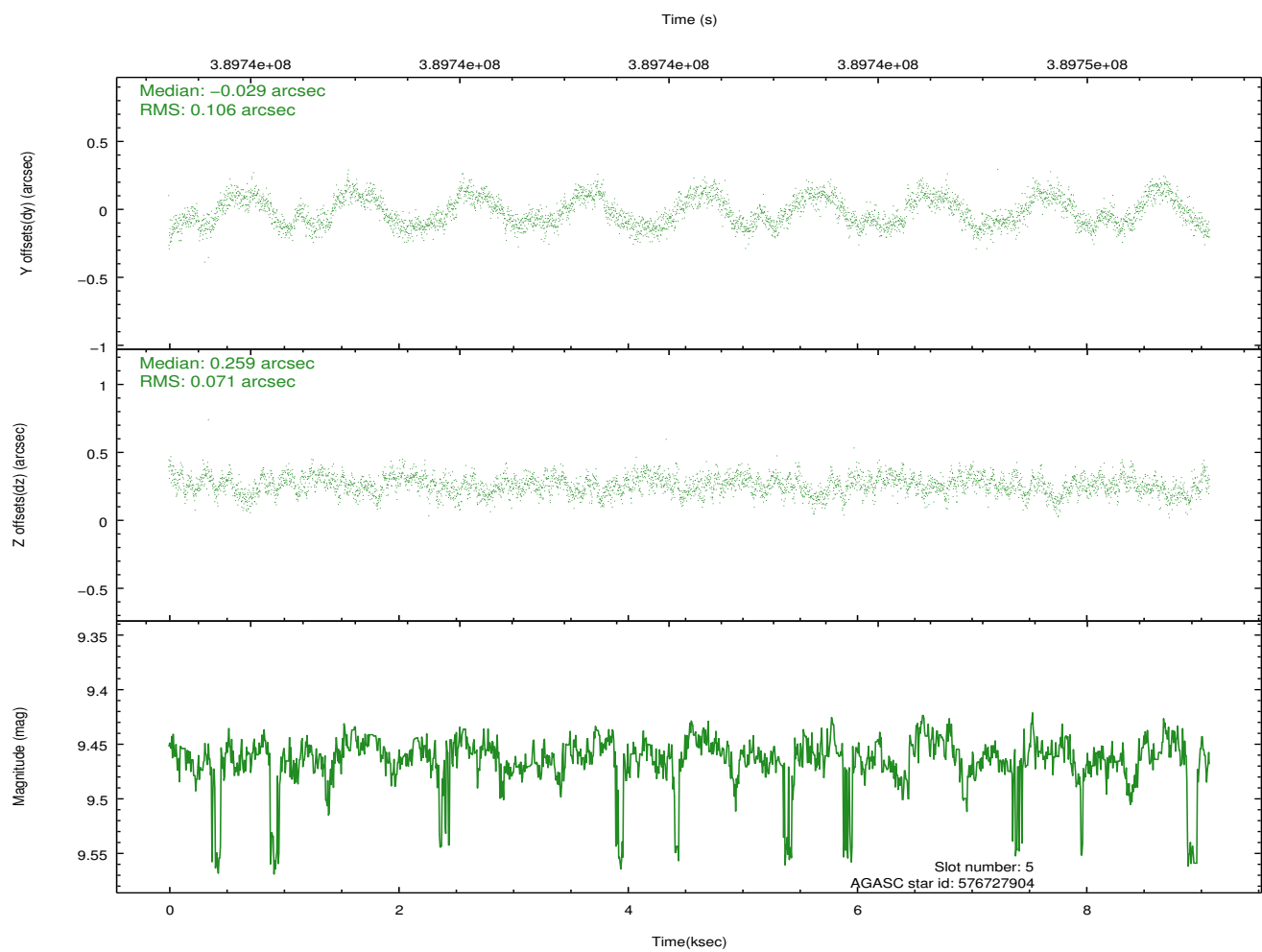
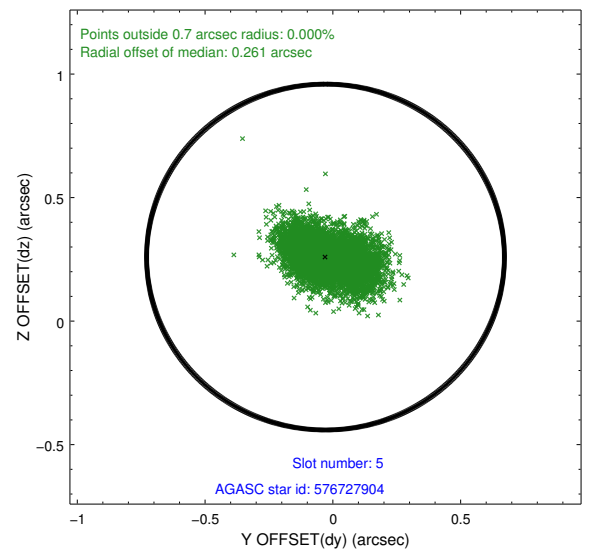
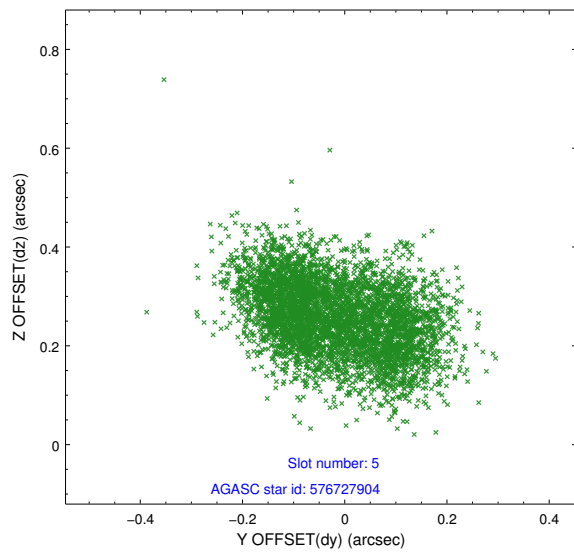
2.4.1 Slot 3



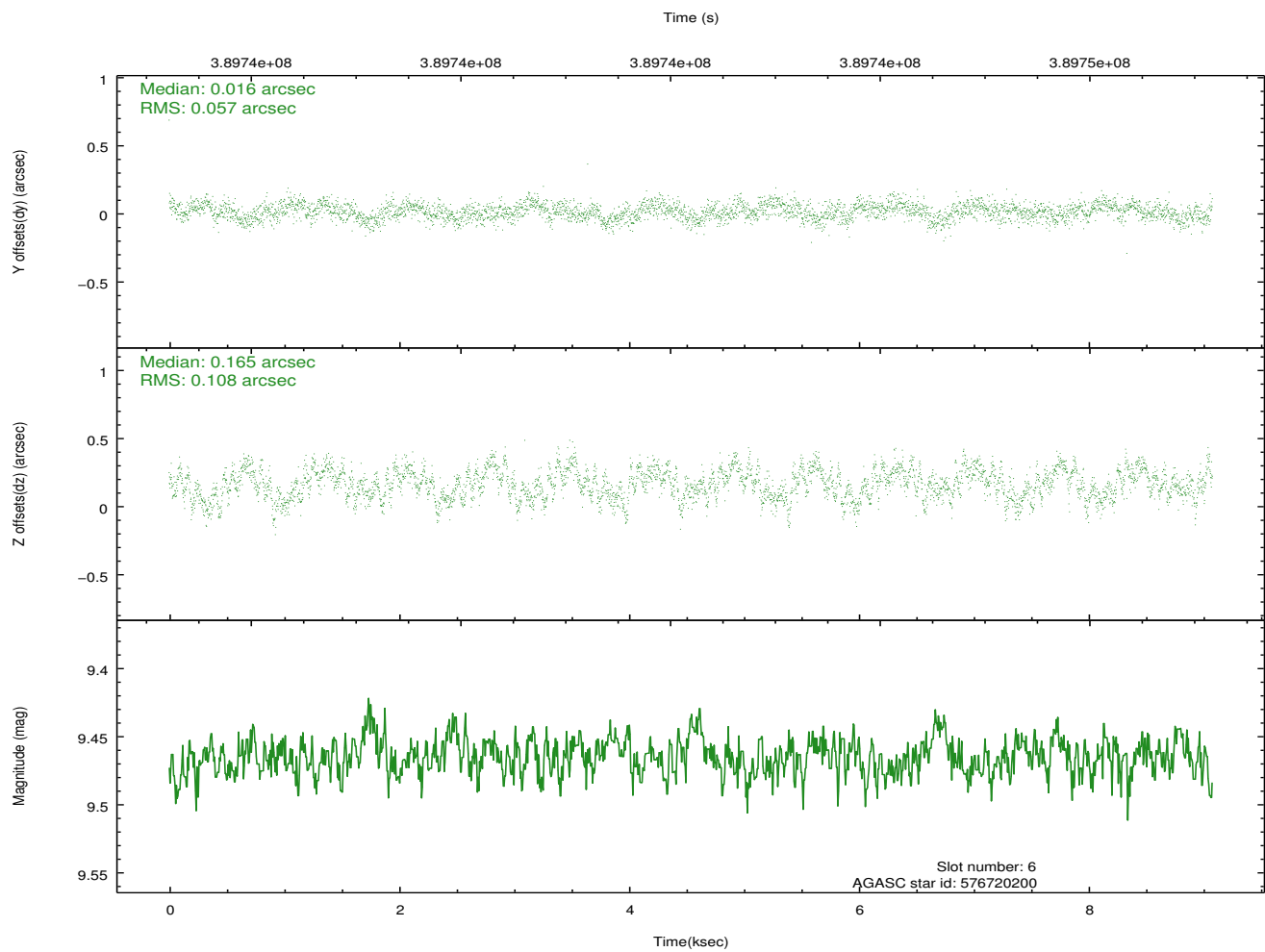
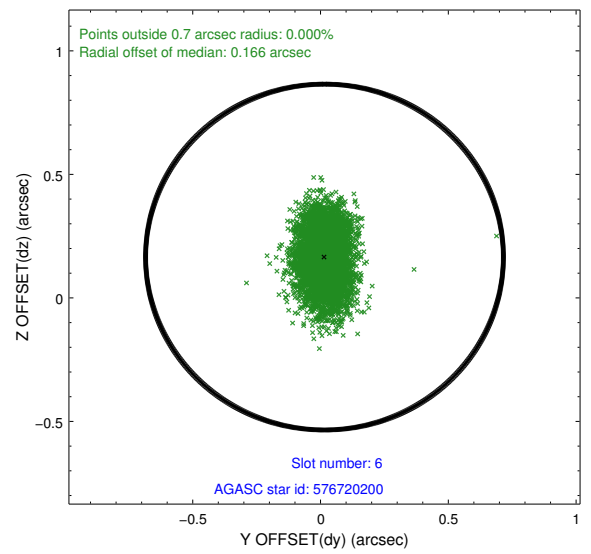
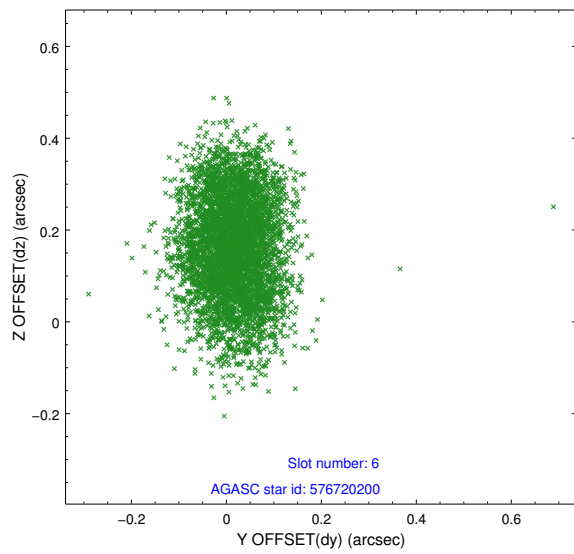
2.4.2 Slot 4



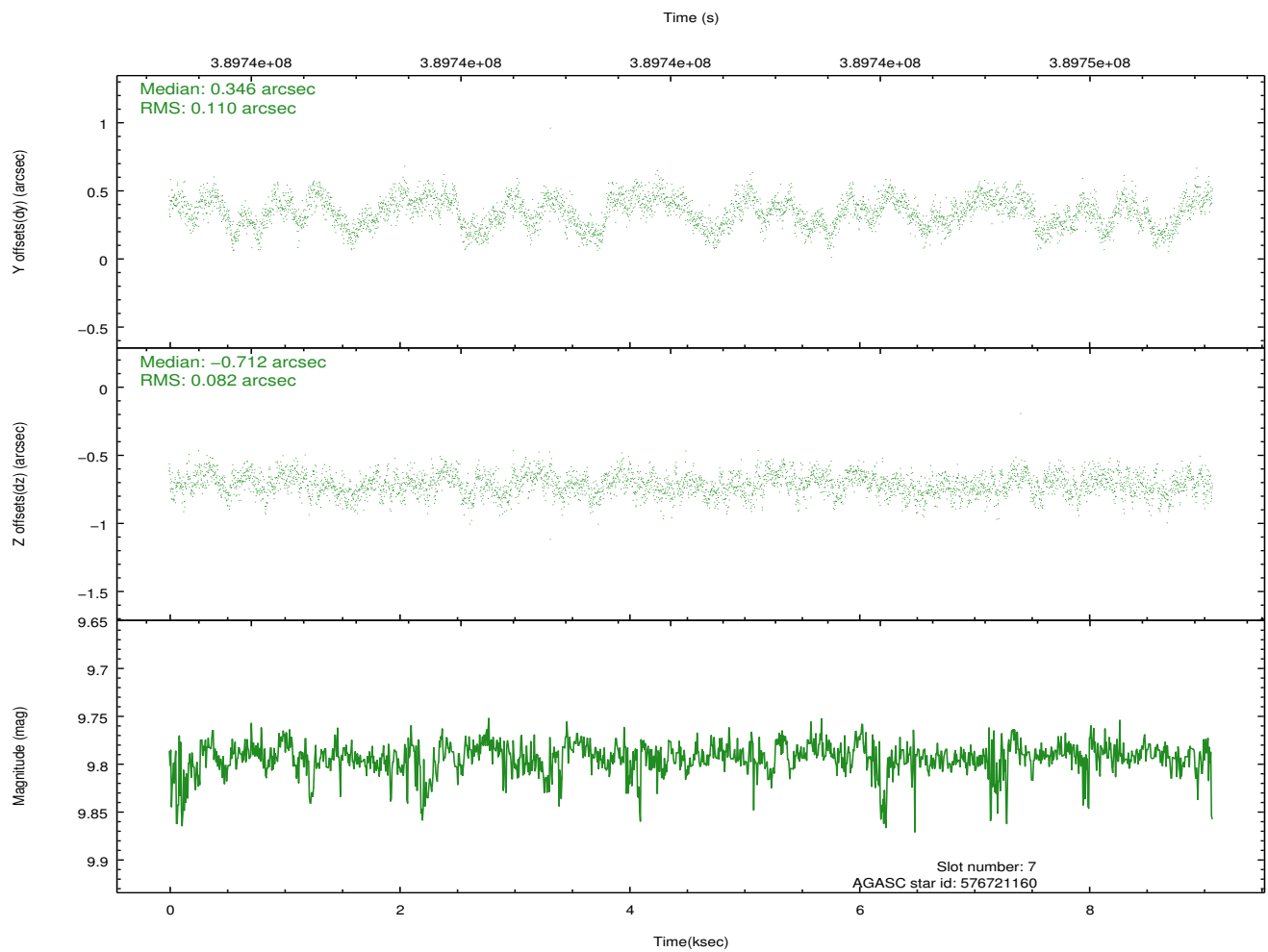
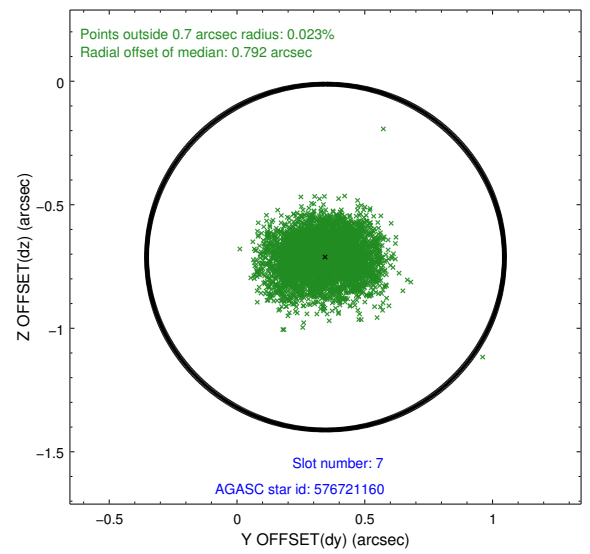
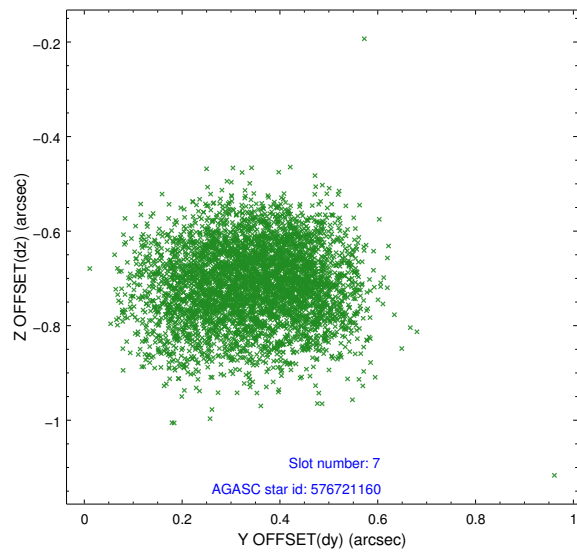
2.4.3 Slot 5



2.4.4 Slot 6

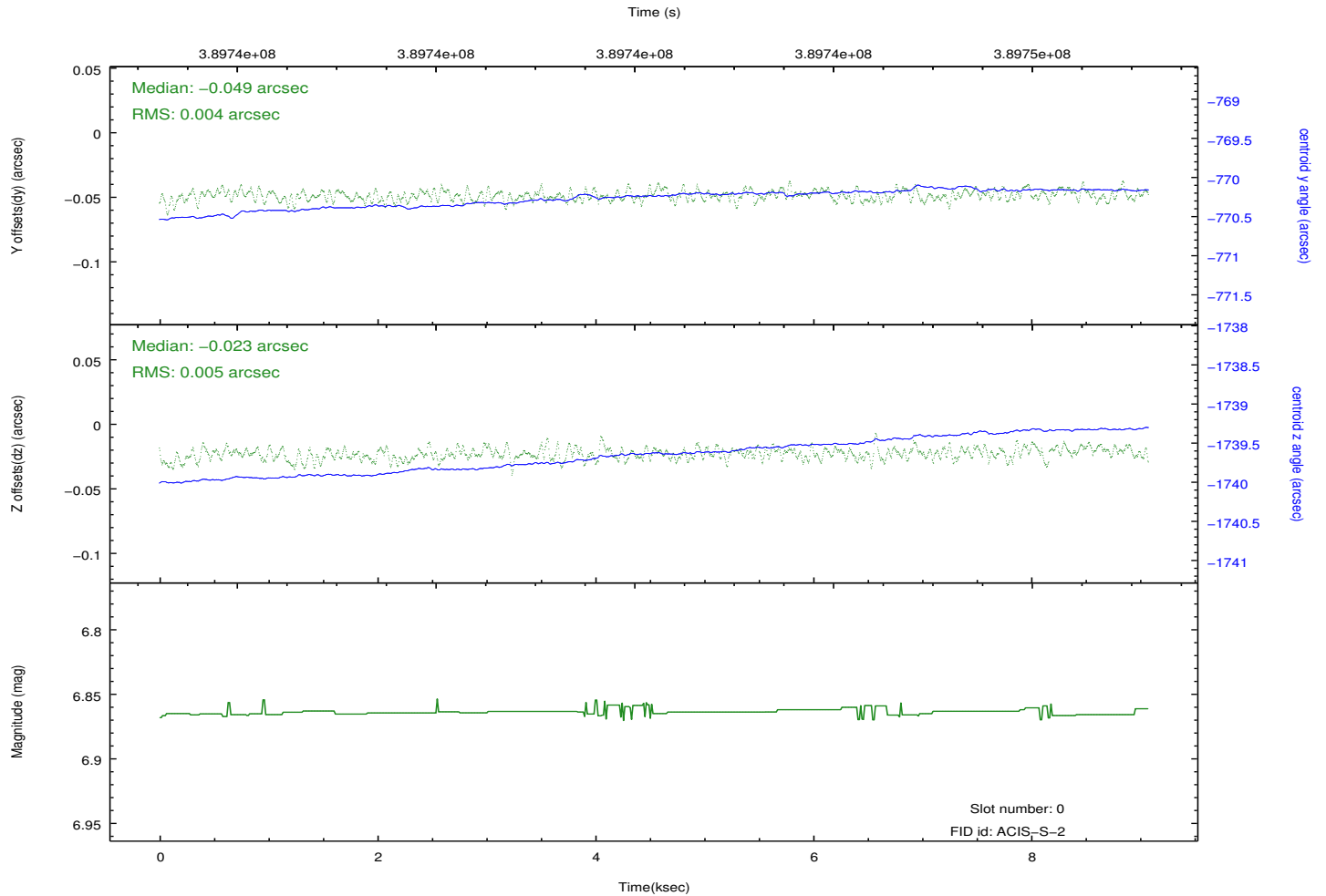
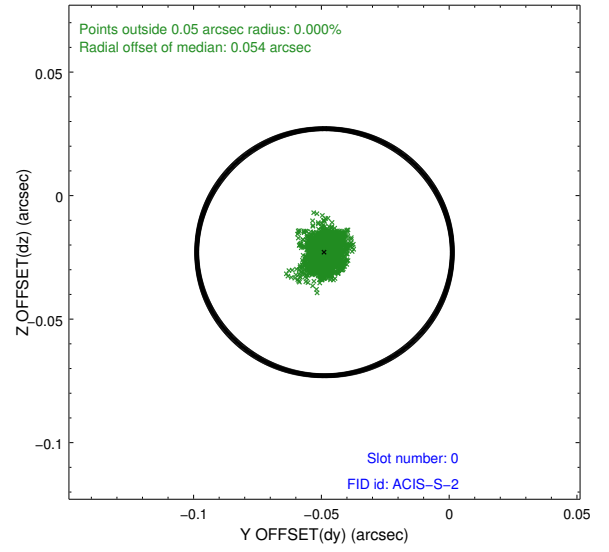
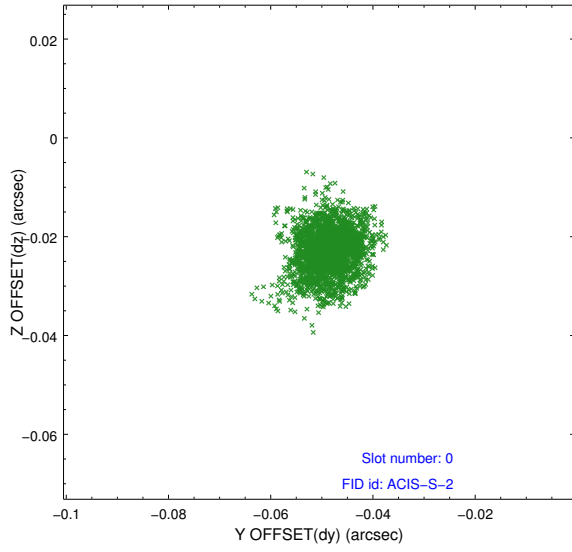


2.4.5 Slot 7

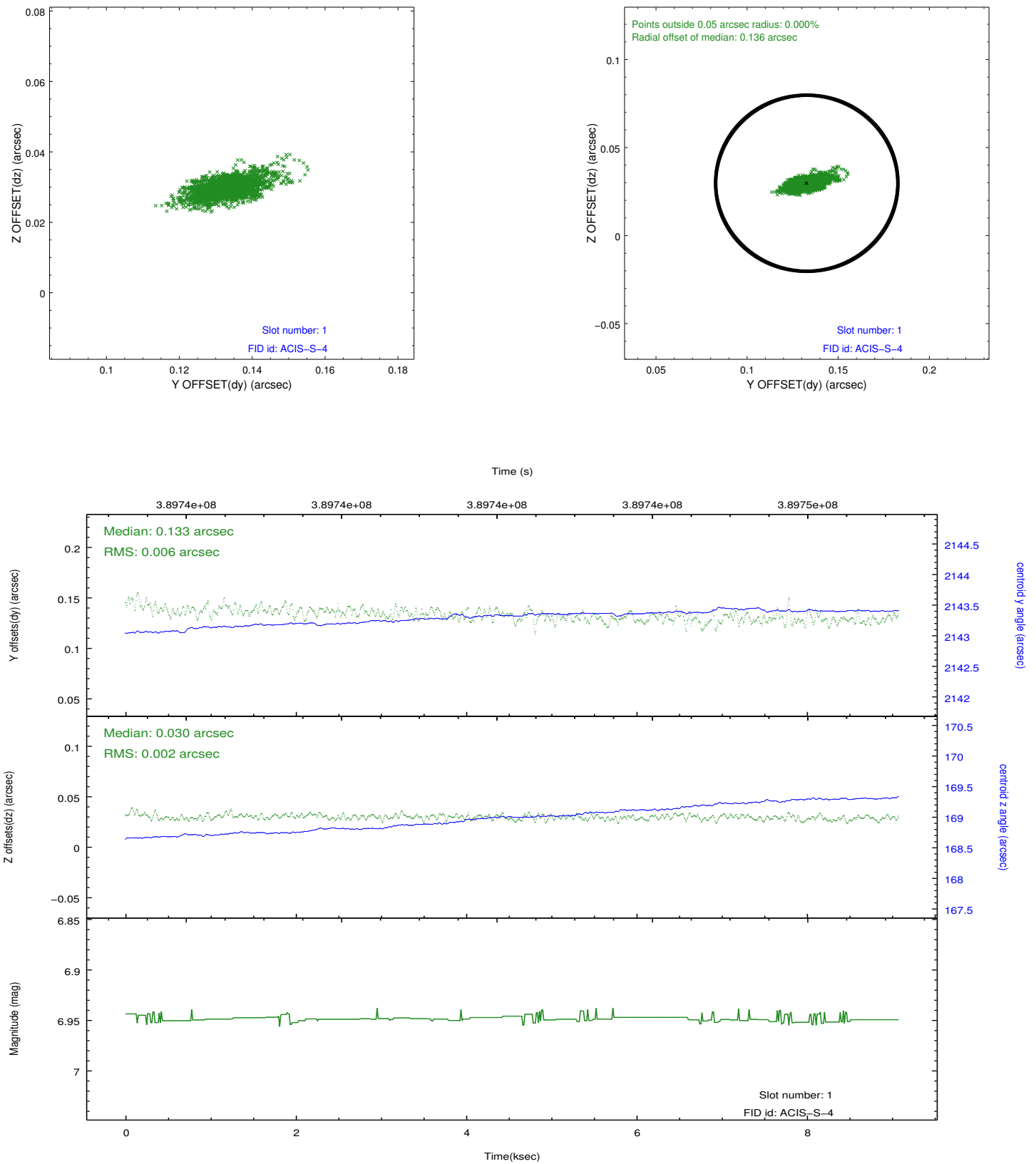


2.5 FID Slots

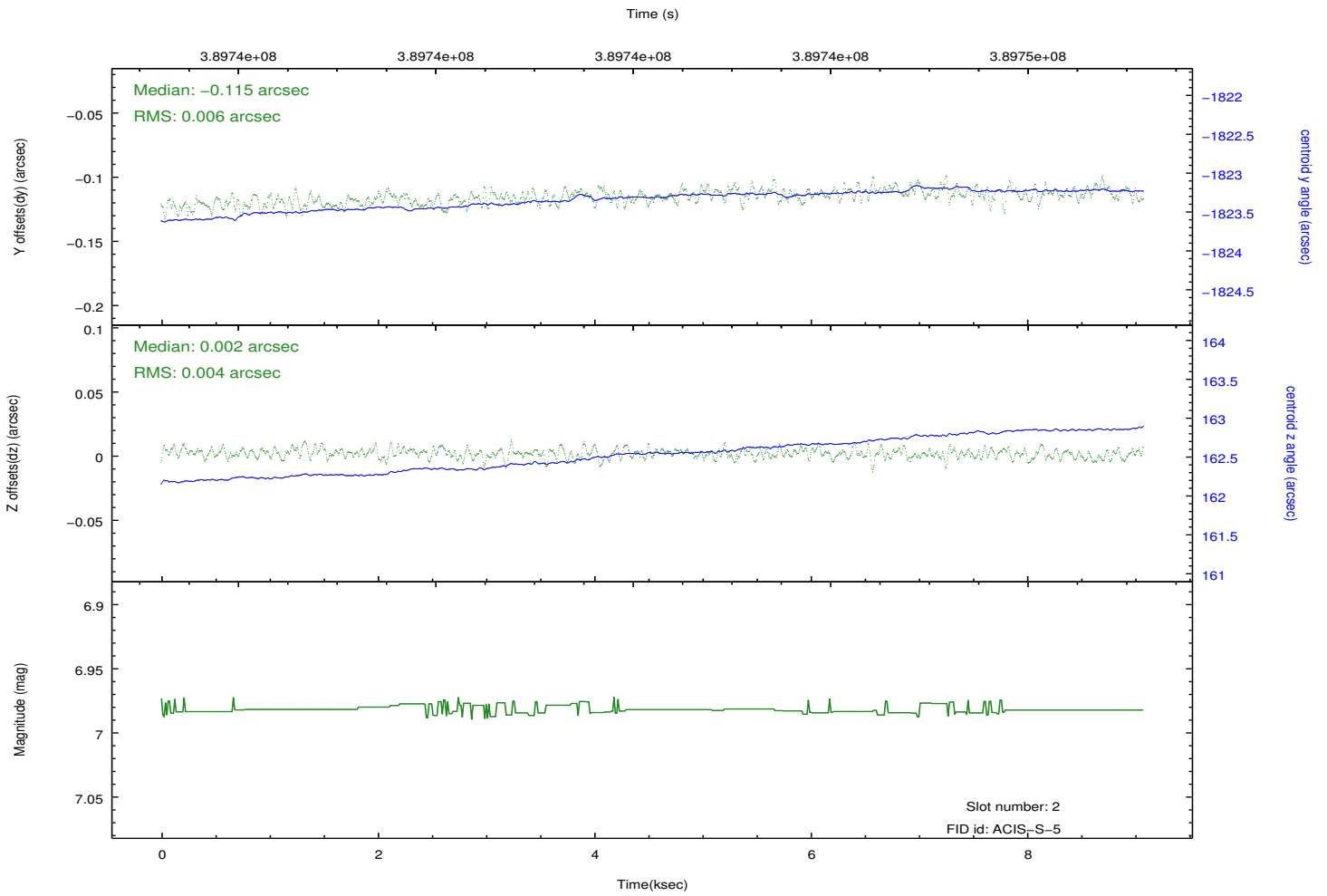
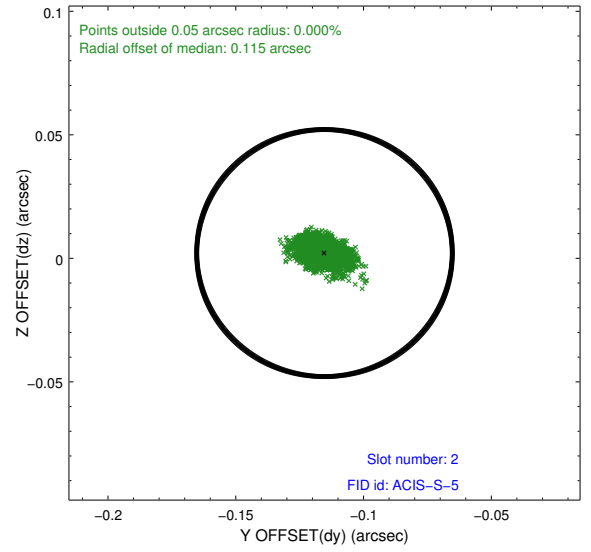
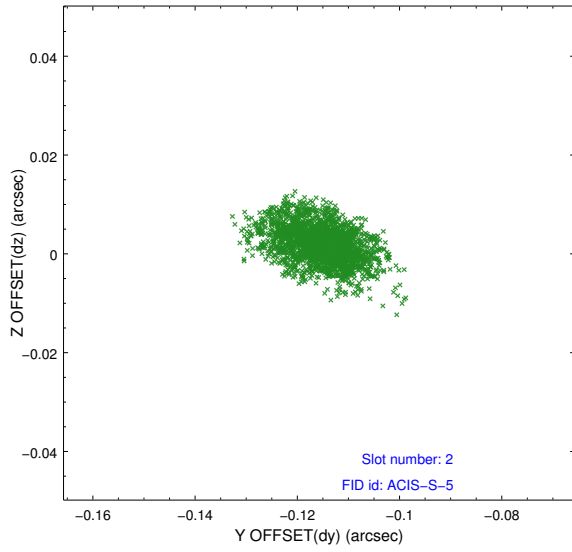
2.5.1 Slot 0



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)	2012.07.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.6527999678254

A.2 Comments