

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 11371 - L2 Version 2
Chandra X-Ray Center

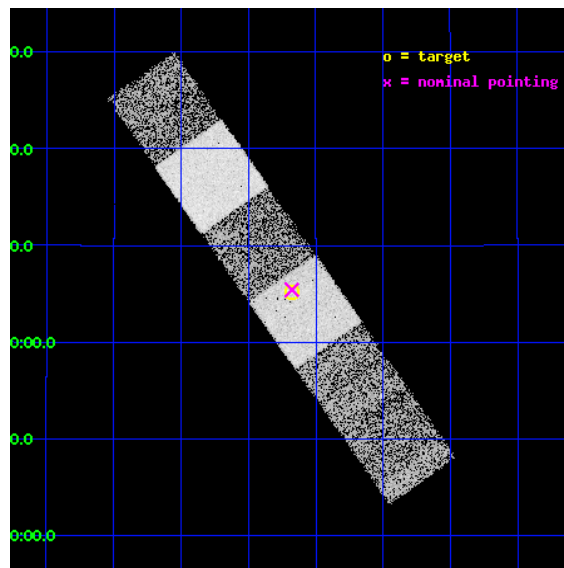
L2 Processing Date : Jul 5 2012

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

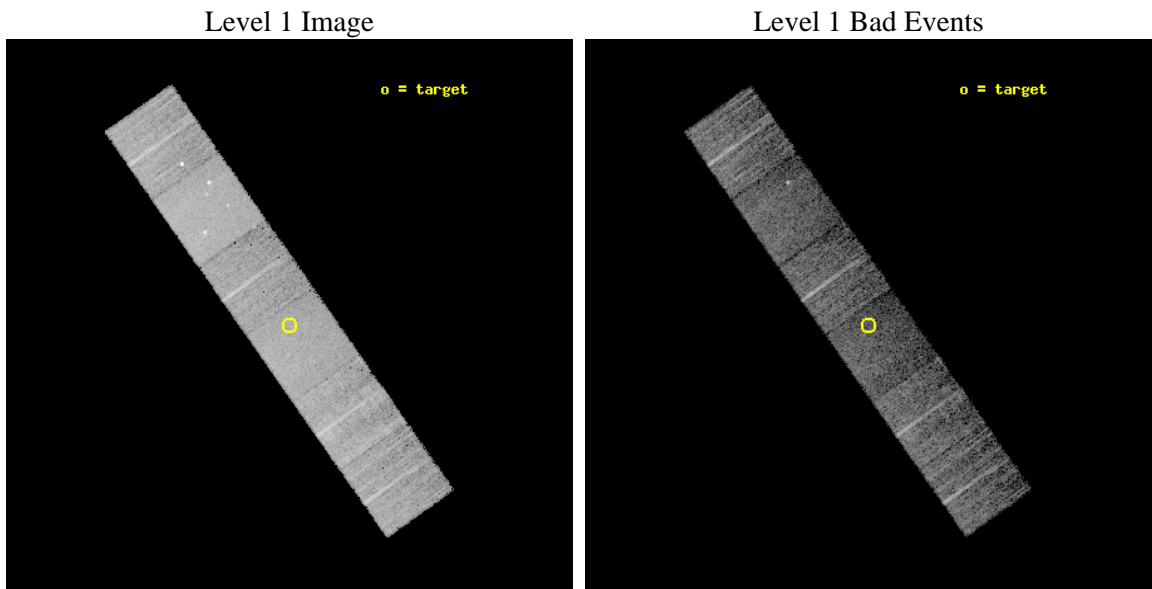
seq_num	600890	Sequence number
obs_id	11371	Observation id
title	Accretion onto nuclear black holes in early type galaxies: comparing field vs. clusters	Proposal title
observer	Elena Gallo	Principal investigator
object	NGC3522	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	166.669	Observer's specified target RA [deg]
dec_targ	20.08566	Observer's specified target Dec [deg]
ra_nom	166.66932375596	Nominal RA [deg]
dec_nom	20.09048933603	Nominal Dec [deg]
roll_nom	54.840629942755	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5948.7999778986	Sum of GTIs [s]
livetime	5873.4726906411	Livetime [s]
ontime4	5948.7999778986	Sum of GTIs [s]
ontime5	5948.7999778986	Sum of GTIs [s]
ontime6	5948.7999778986	Sum of GTIs [s]
ontime7	5948.7999778986	Sum of GTIs [s]
ontime8	5948.7999778986	Sum of GTIs [s]
ontime9	5948.7999778986	Sum of GTIs [s]
l2events	72780	Number of level 2 events



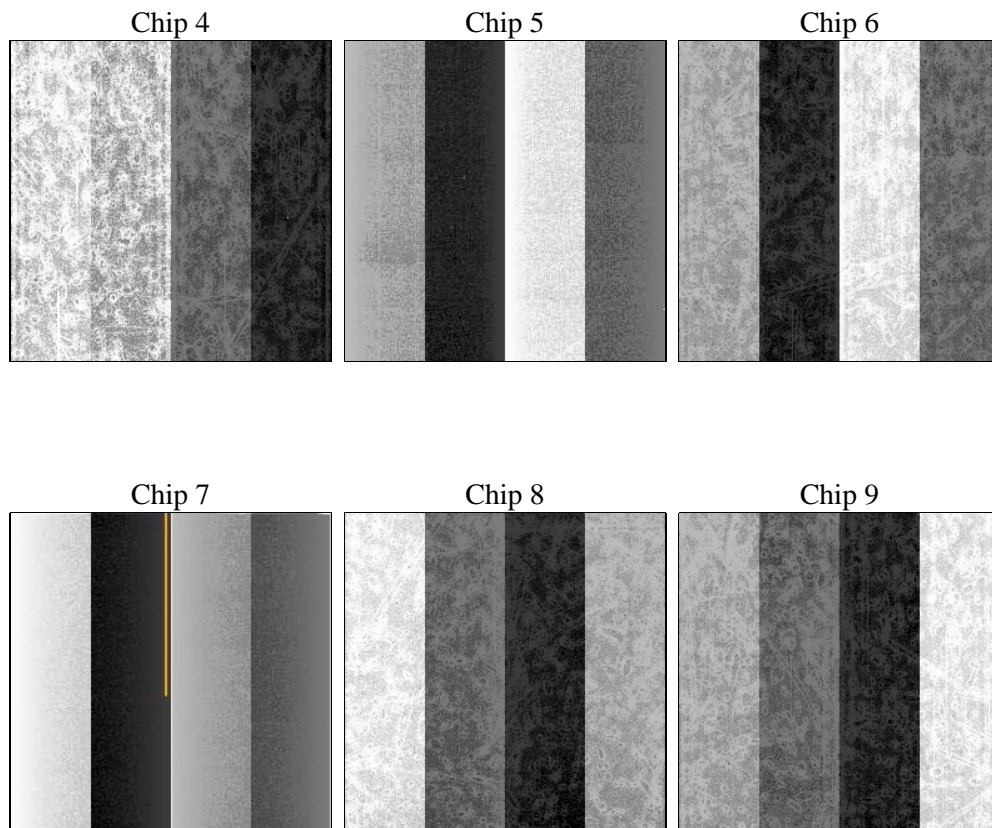
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	5900.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5948.7999778986	Sum of GTIs [s]
caldbver	4.5.0	 	ontime4	5948.7999778986	Sum of GTIs [s]
date	2012-07-05T05:53:54	Date and time of file creation	ontime5	5948.7999778986	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	5948.7999778986	Sum of GTIs [s]
			ontime7	5948.7999778986	Sum of GTIs [s]
			ontime8	5948.7999778986	Sum of GTIs [s]
			ontime9	5948.7999778986	Sum of GTIs [s]
			l1events	318281	Number of level 1 events

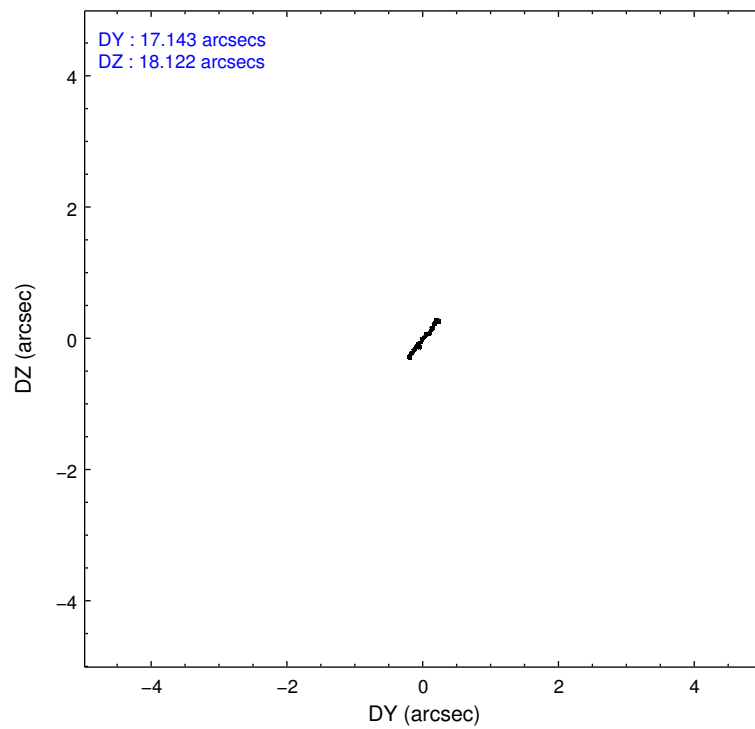
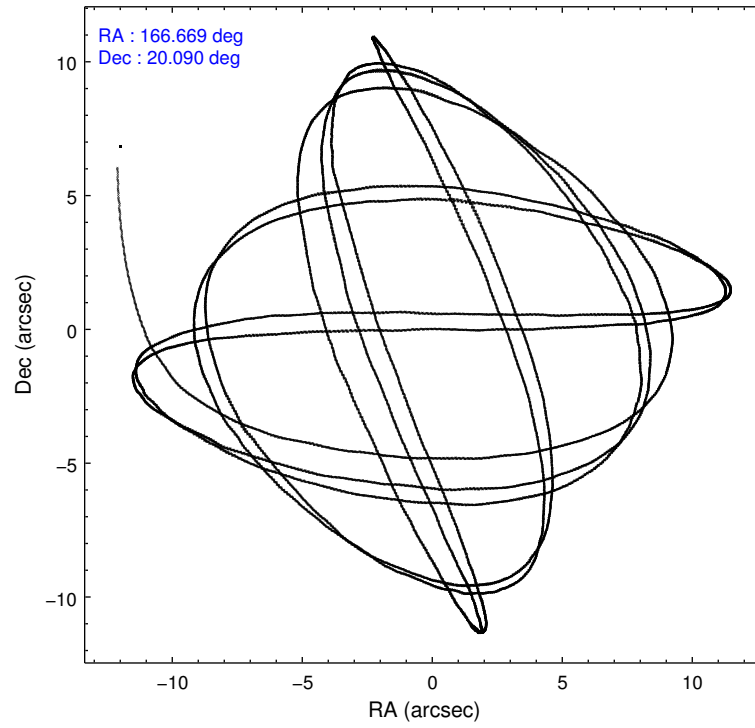
2.1.4 Events

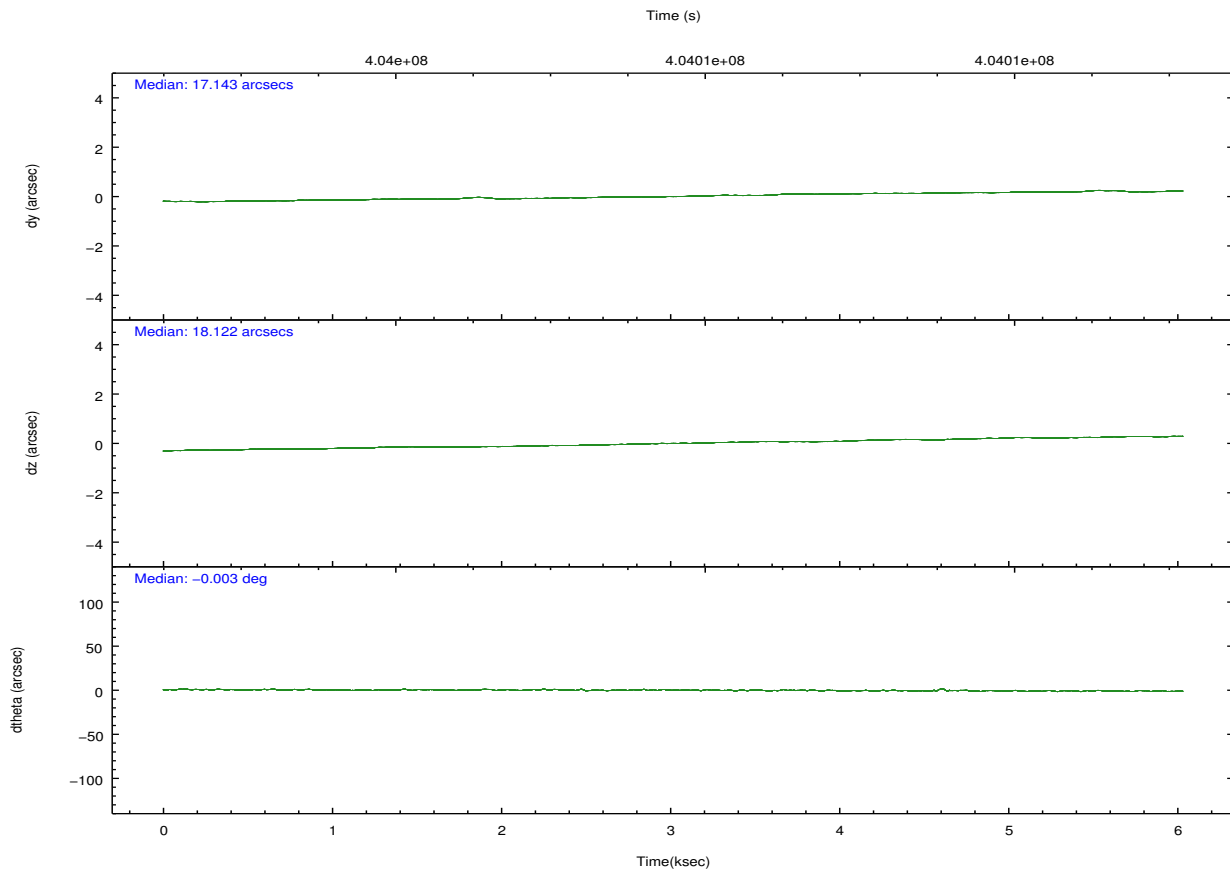
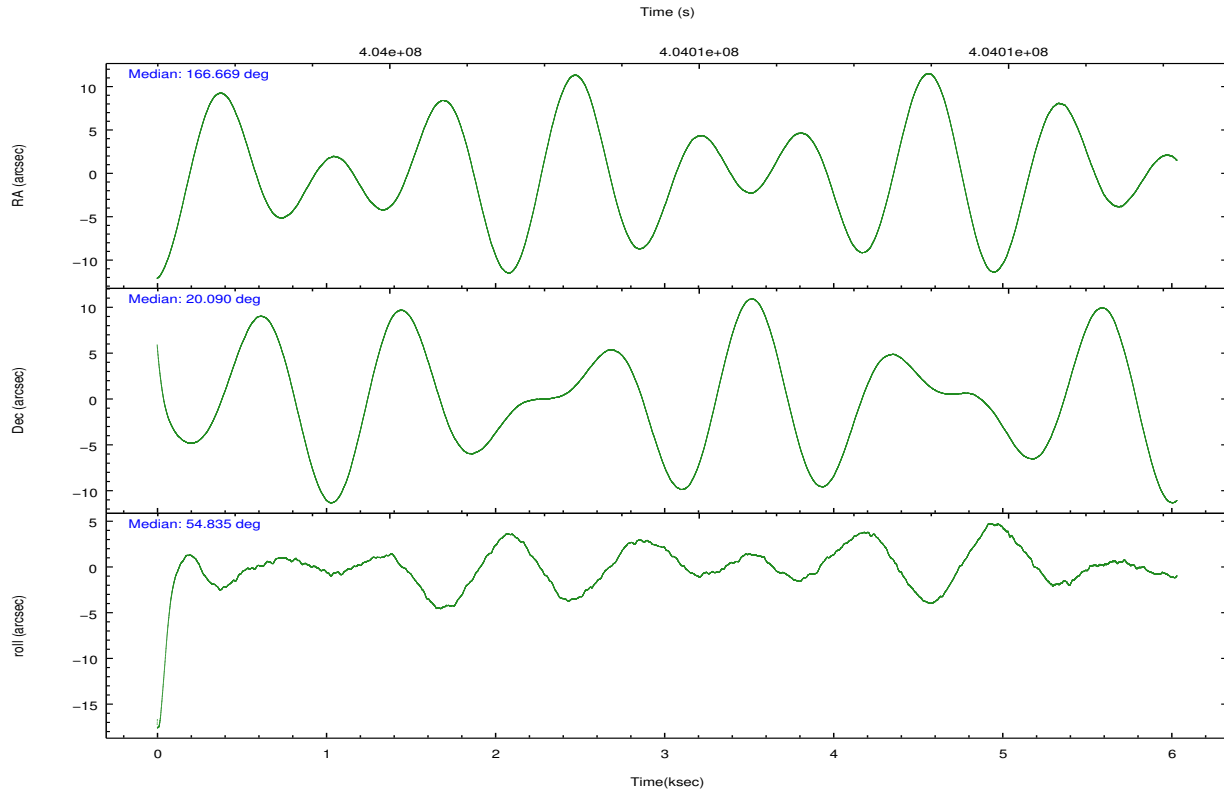
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	52734	67471	44035	53379	56742	43920	grade 0 events	3295	3462	1721	2390	4674	2001
rejected events	46026	34154	39178	29062	41833	38524		6%	5%	3%	4%	8%	4%
rejected %	87%	50%	88%	54%	73%	87%	grade 1 events	48	133	26	64	56	31
								0%	0%	0%	0%	0%	0%
							grade 2 events	1360	10150	1093	4825	3476	1196
								2%	15%	2%	9%	6%	2%
							grade 3 events	571	1359	510	2161	1578	521
								1%	2%	1%	4%	2%	1%
							grade 4 events	582	1169	515	2176	1414	532
								1%	1%	1%	4%	2%	1%
							grade 5 events	2057	5313	2010	5573	2851	2189
								3%	7%	4%	10%	5%	4%
							grade 6 events	901	17201	1018	12774	3772	1149
								1%	25%	2%	23%	6%	2%
							grade 7 events	43920	28684	37142	23416	38921	36301
								83%	42%	84%	43%	68%	82%

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	166.667086	166.6693237559553	CCD I2 on	N	N
[deg] Pointing Dec	20.063240	20.09048933603009	CCD I3 on	N	N
[deg] Pointing Roll	54.684801	54.84062994275546	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	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	404002914.184000	404001599.28919	CCD S5 on	O2	Y
Observation start date	2010-10-20T23:00:48	2010-10-20T22:39:59	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	404008814.184000	404009855.15212	On-chip summing requested	N	N
Observation end date	2010-10-21T00:39:08	2010-10-21T00:57:35	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



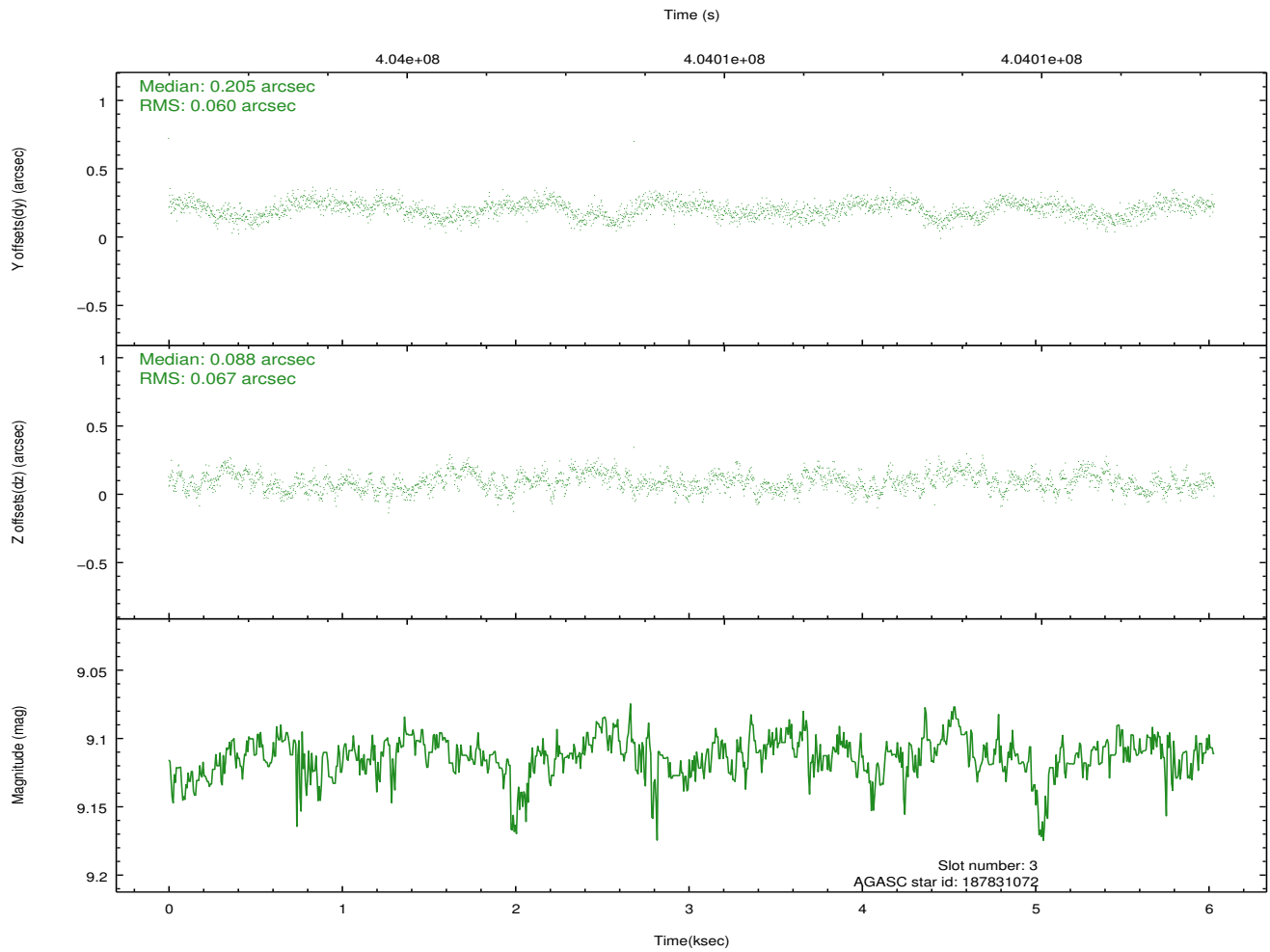
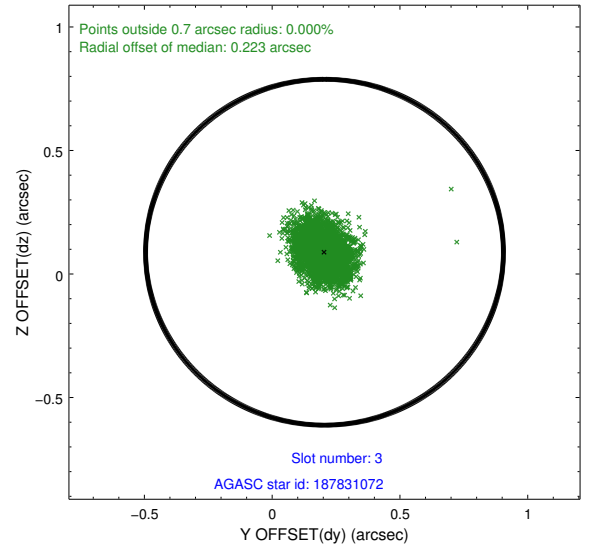
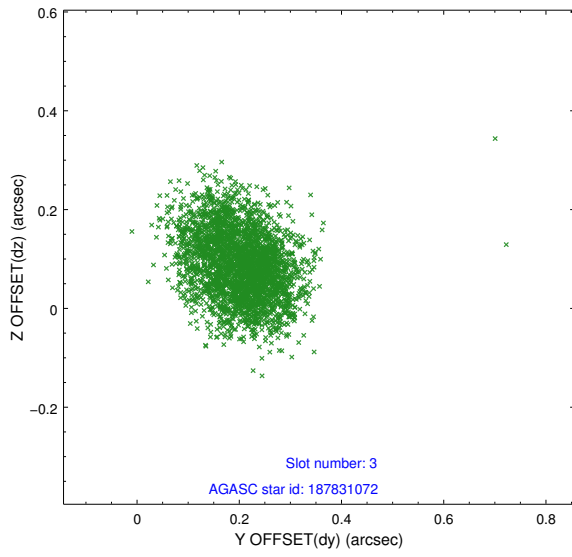


Slot Statistics

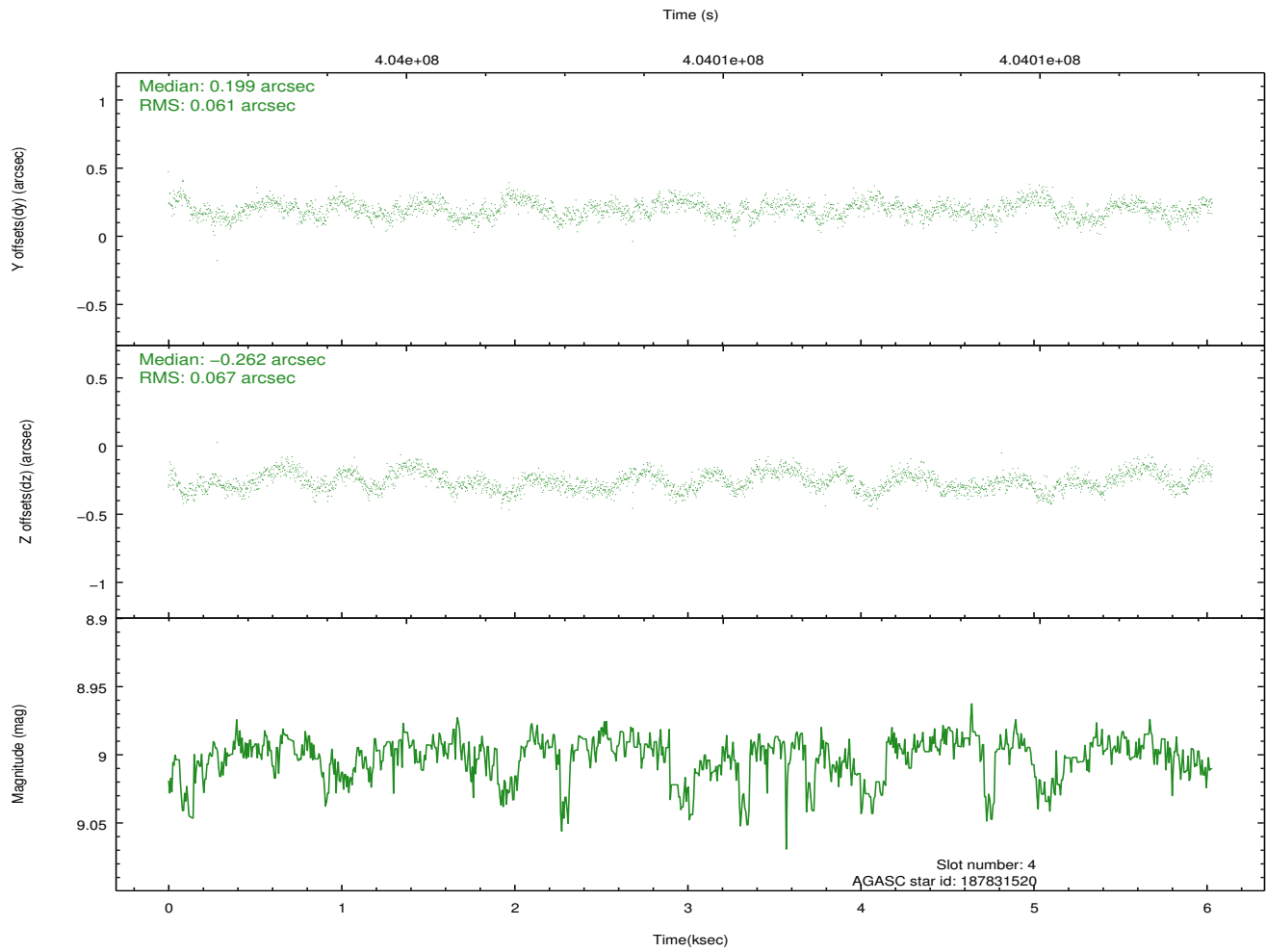
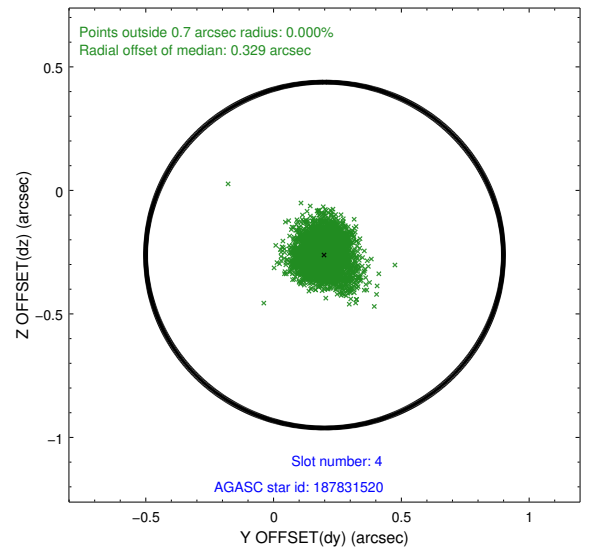
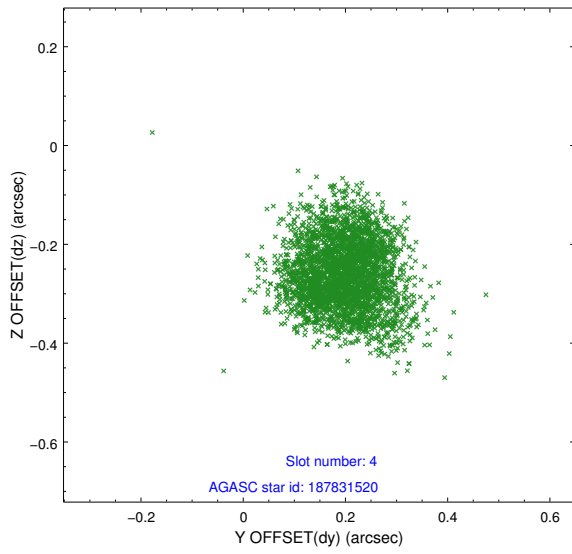
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.88	1472	-0.060	-0.043	0.006	0.010	0.000000	0.000000	-770.28	-1739.61
1	FID	ACIS-S-4	6.96	1472	0.169	0.041	0.008	0.014	0.000000	0.000000	2142.81	167.88
2	FID	ACIS-S-5	7.00	1472	-0.140	0.011	0.008	0.013	0.000000	0.000000	-1821.91	162.71
3	GUIDE	187831072	9.11	2942	0.205	0.088	0.096	0.149	166.731559	19.717671	-888.29	-897.44
4	GUIDE	187831520	9.00	2929	0.199	-0.262	0.097	0.154	165.916790	19.928113	-1860.33	1793.77
5	GUIDE	187832184	9.15	2939	0.286	0.234	0.109	0.171	166.712927	19.293293	-2172.42	-1728.27
6	GUIDE	188225024	6.61	2944	-0.334	0.067	0.048	0.074	167.235186	20.257782	1682.38	-1158.77
7	GUIDE	188225064	7.36	2942	-0.348	-0.129	0.065	0.102	166.730563	20.483508	1358.70	699.89

2.4 Star Slots

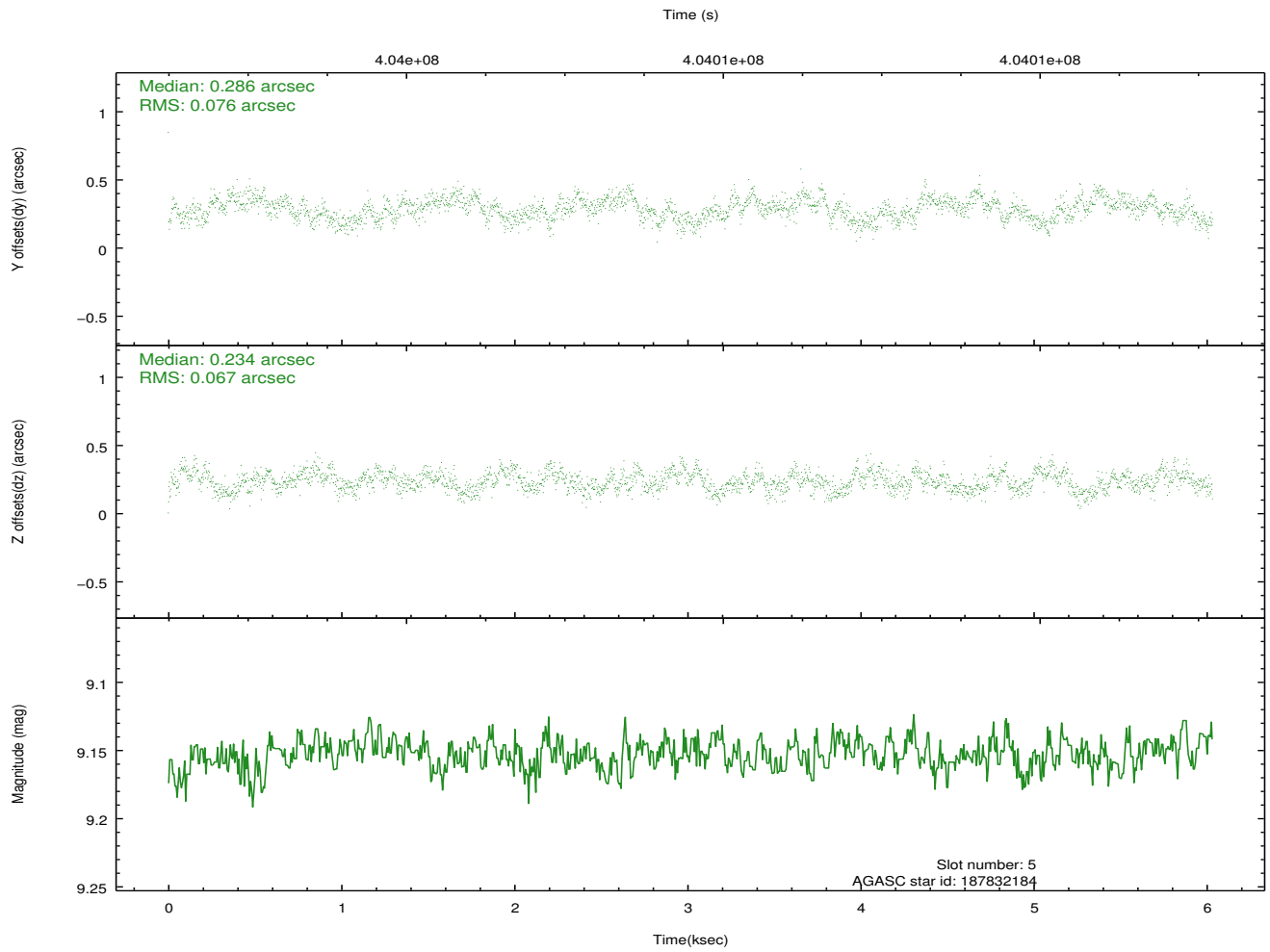
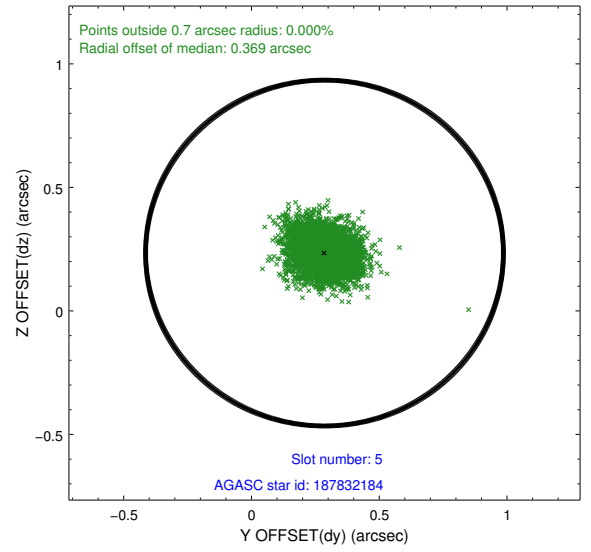
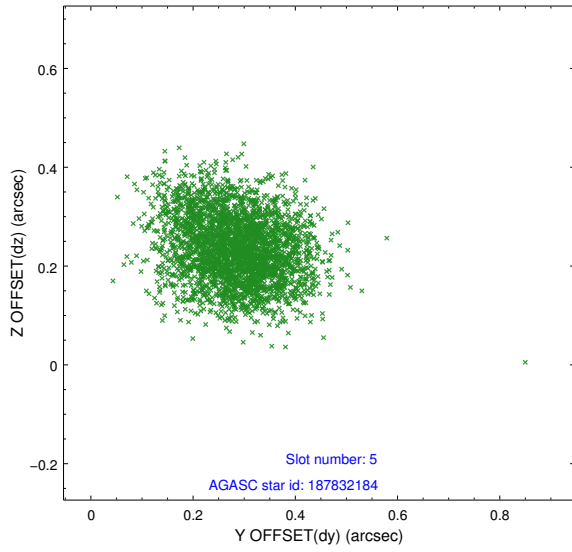
2.4.1 Slot 3



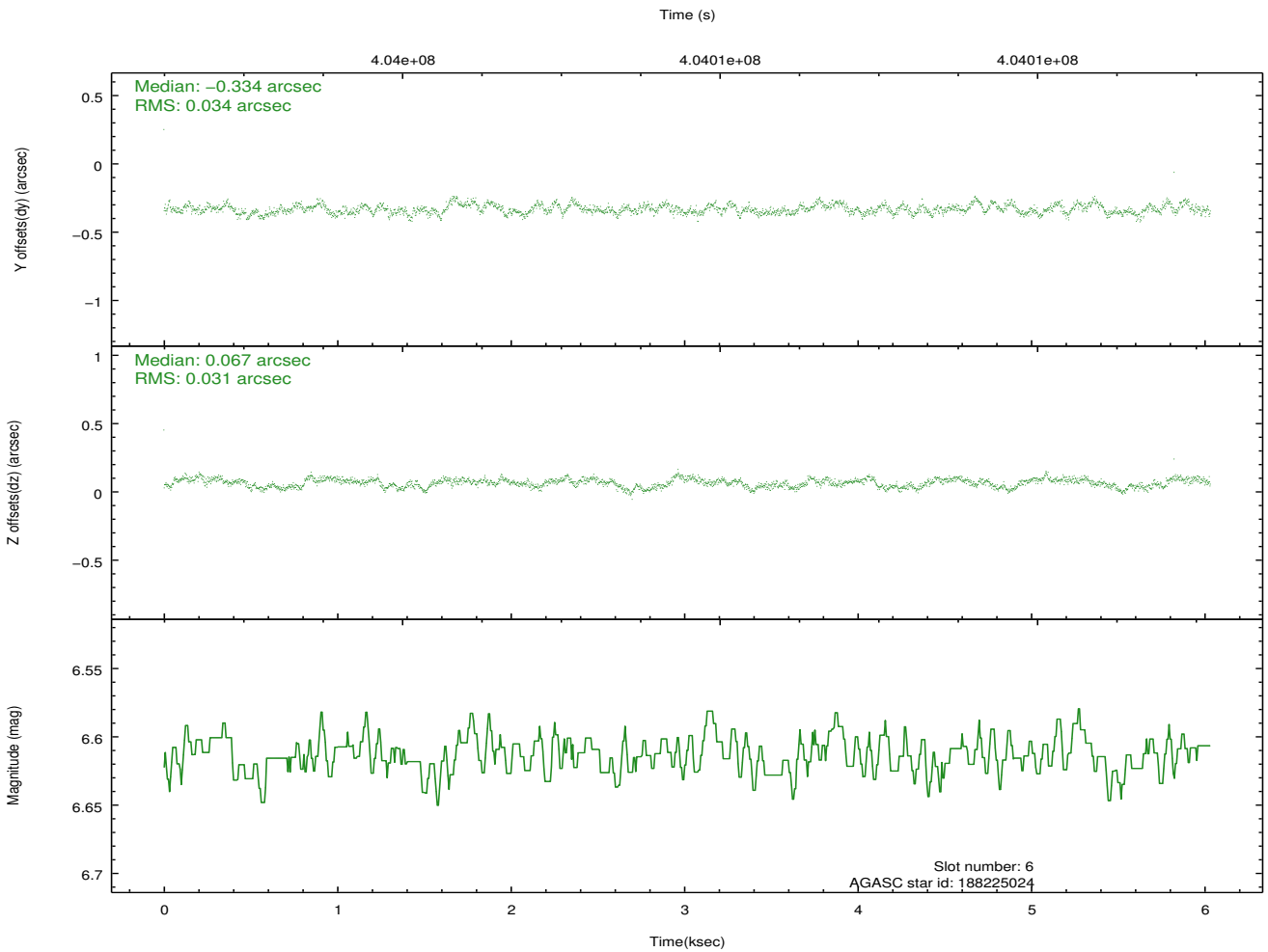
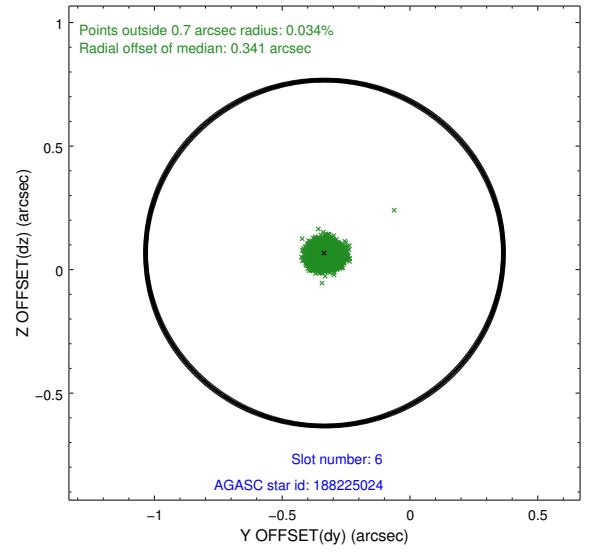
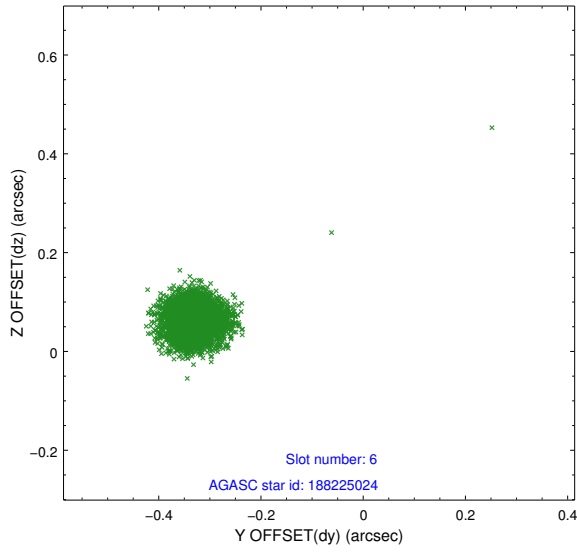
2.4.2 Slot 4



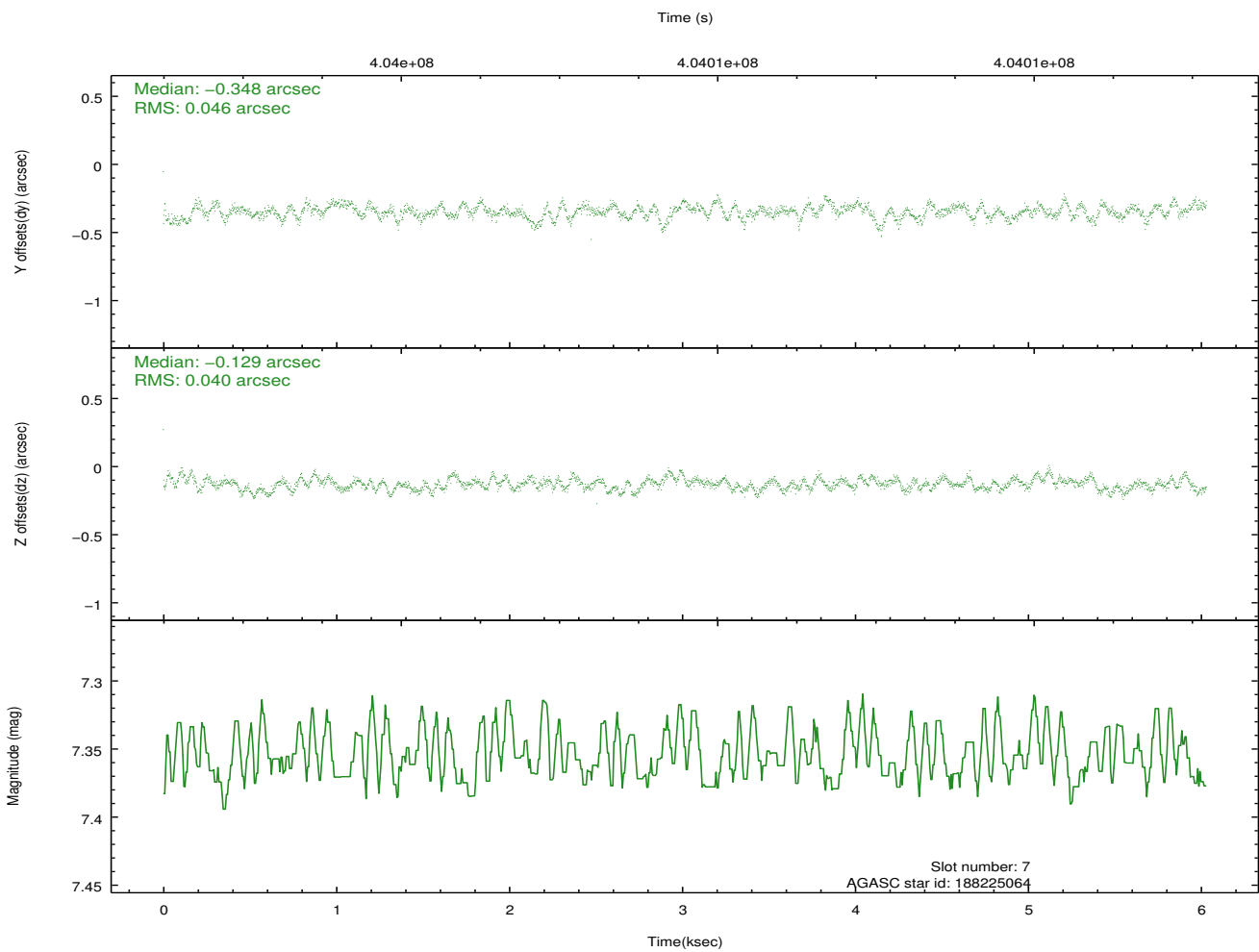
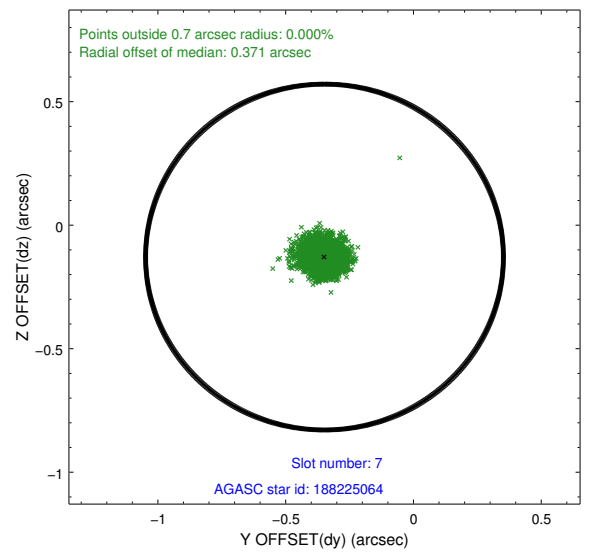
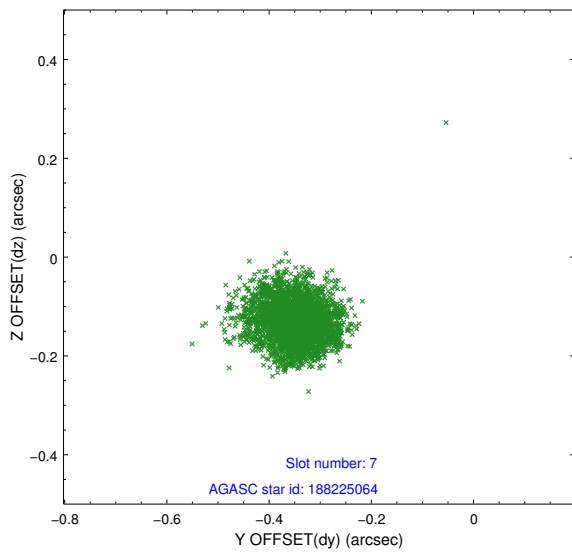
2.4.3 Slot 5



2.4.4 Slot 6

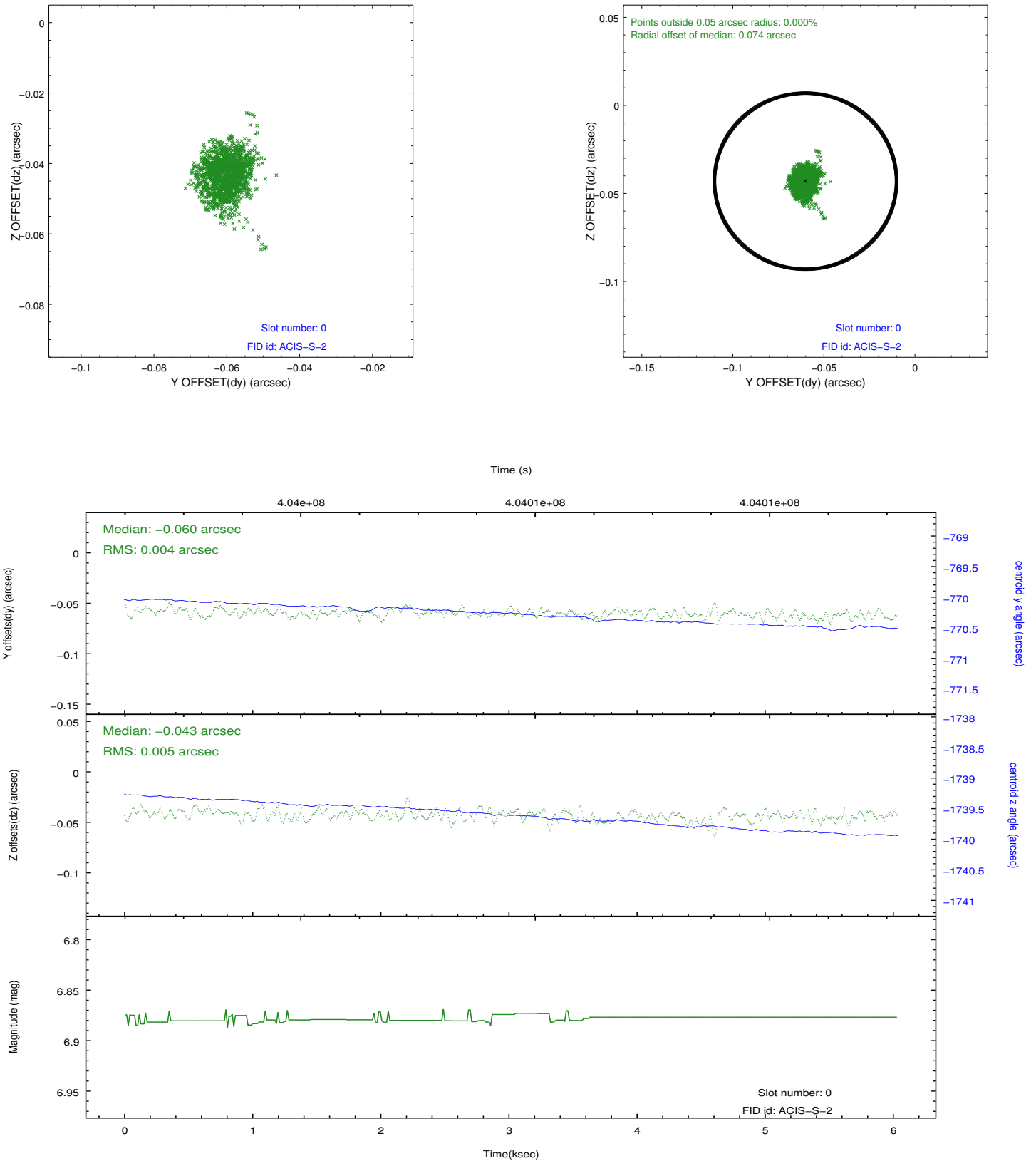


2.4.5 Slot 7

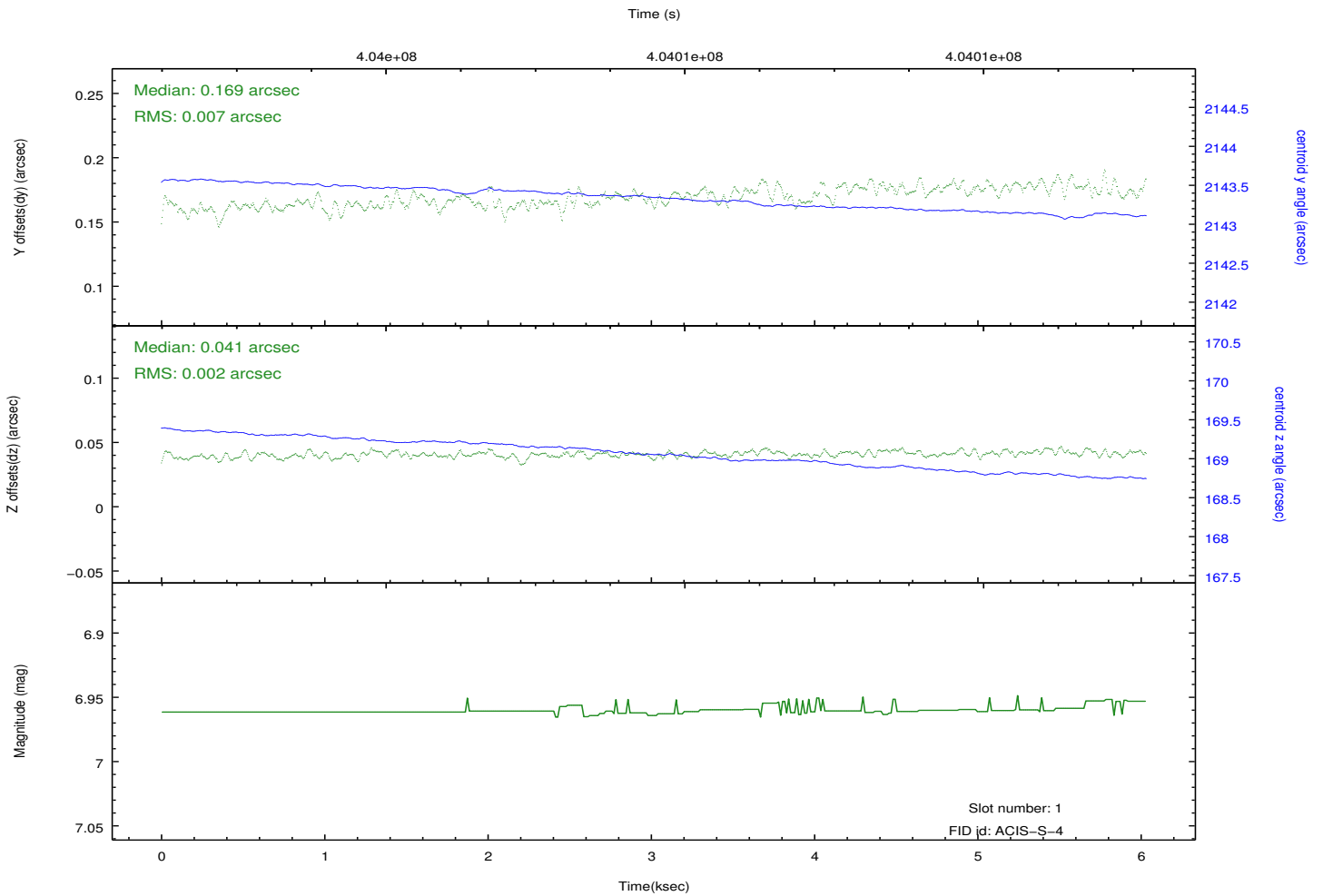
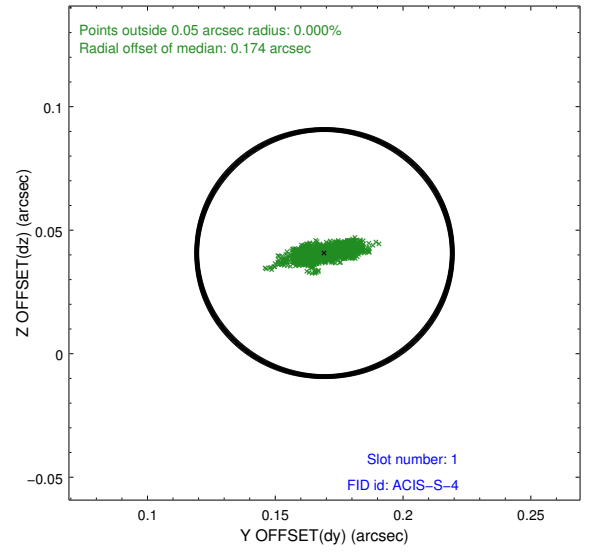
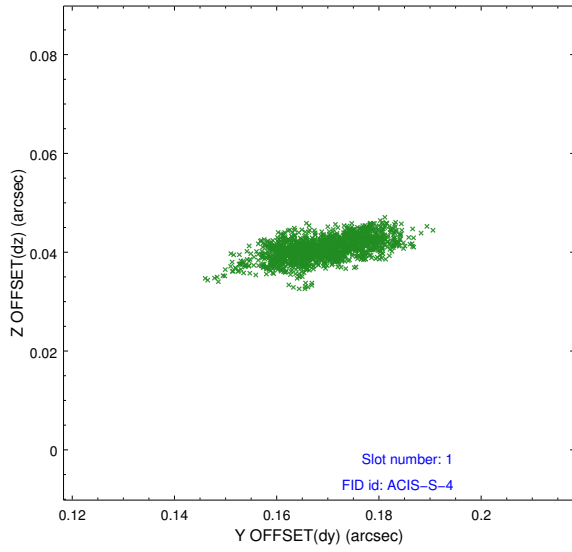


2.5 FID Slots

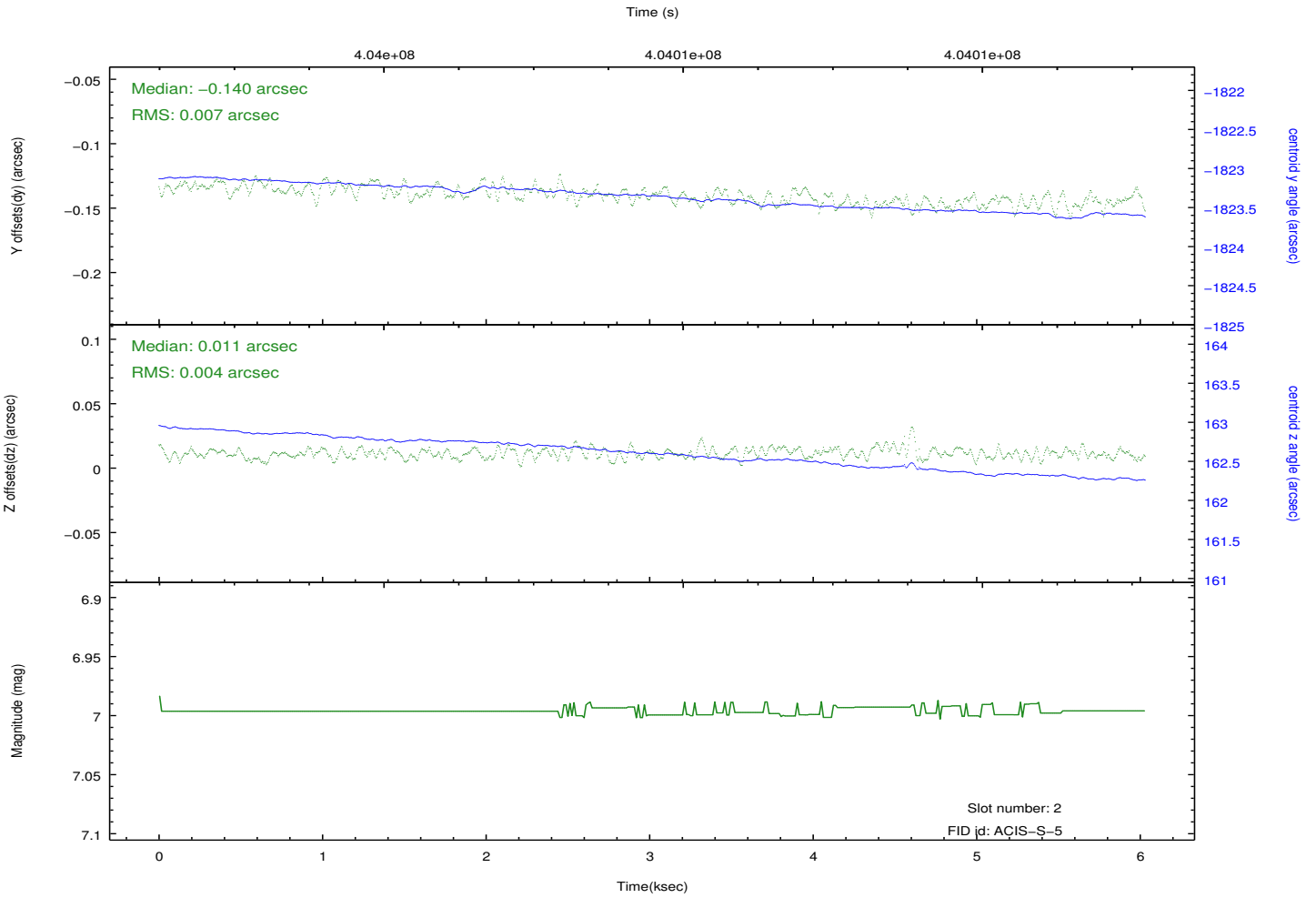
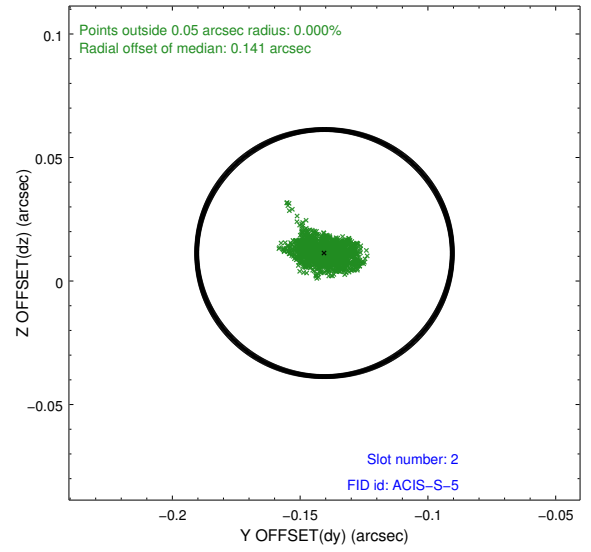
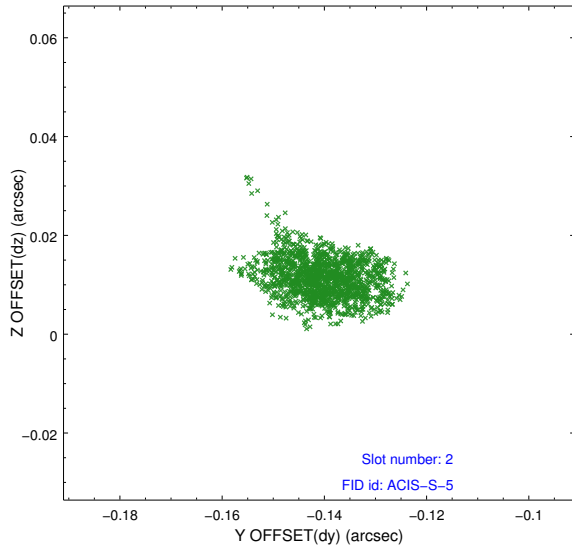
2.5.1 Slot 0



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)	2012.07.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.9487999778986

A.2 Comments