

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8071 - L2 Version 2
Chandra X-Ray Center

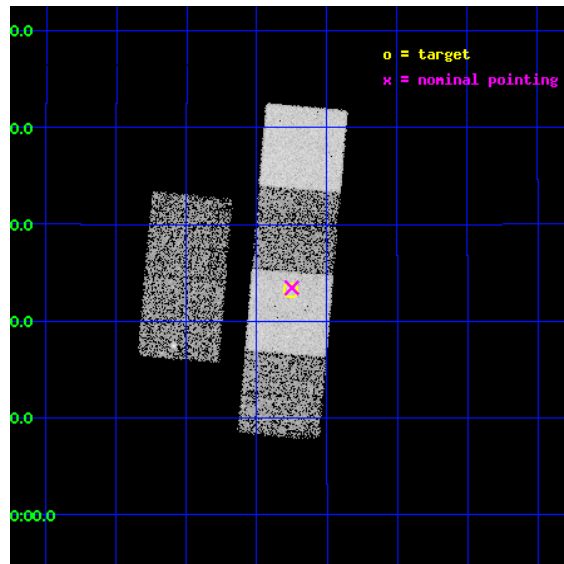
L2 Processing Date : May 10 2012

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1 Front

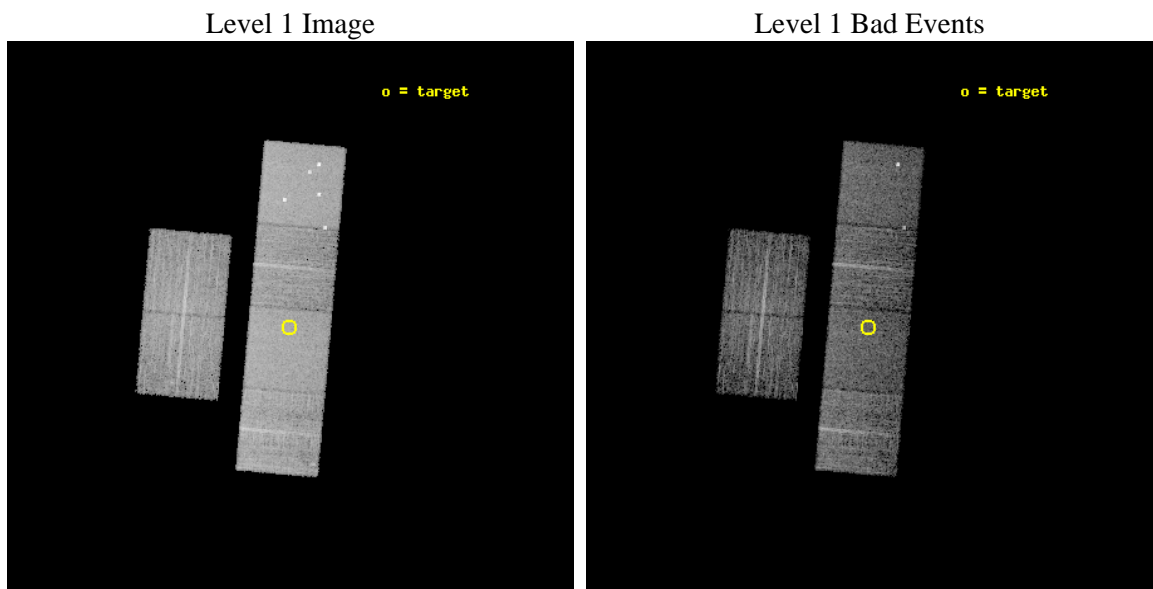
seq_num	900612	Sequence number
obs_id	8071	Observation id
title	The Duty Cycle of Supermassive Black Holes: X-raying Virgo	Proposa
observer	Prof Tommaso Treu	Principal investigator
object	1871	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	190.315417	Observer's specified target RA [deg]
dec_targ	11.387083	Observer's specified target Dec [deg]
ra_nom	190.31246421316	Nominal RA [deg]
dec_nom	11.39085530142	Nominal Dec [deg]
roll_nom	94.981149353427	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5155.0761219859	Sum of GTIs [s]
livetime	5089.7994441151	Livetime [s]
ontime2	5155.1171619892	Sum of GTIs [s]
ontime3	5154.953001976	Sum of GTIs [s]
ontime5	5155.0350819826	Sum of GTIs [s]
ontime6	5151.7530316114	Sum of GTIs [s]
ontime7	5155.0761219859	Sum of GTIs [s]
ontime8	5151.670912087	Sum of GTIs [s]
l2events	81885	Number of level 2 events



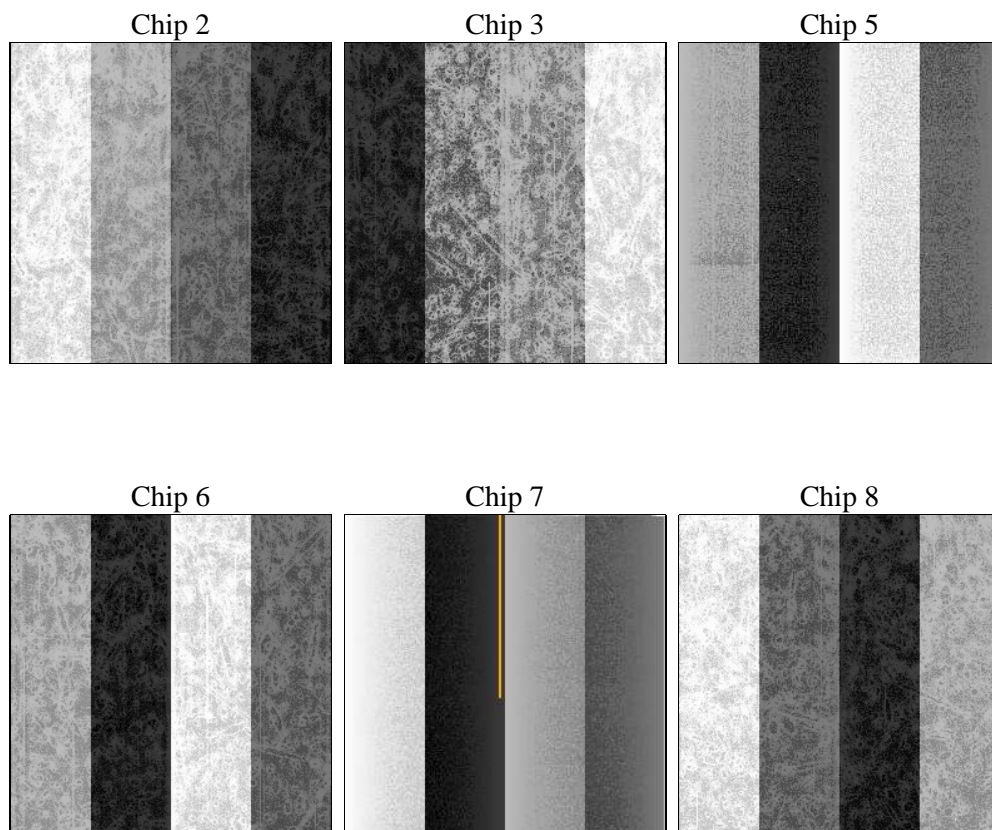
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5400.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	5155.0761219859	Sum of GTIs [s]
caldbver	4.4.9	 	ontime2	5155.1171619892	Sum of GTIs [s]
date	2012-05-10T21:25:04	Date and time of file creation	ontime3	5154.953001976	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	5155.0350819826	Sum of GTIs [s]
			ontime6	5151.7530316114	Sum of GTIs [s]
			ontime7	5155.0761219859	Sum of GTIs [s]
			ontime8	5151.670912087	Sum of GTIs [s]
			l1events	361846	Number of level 1 events

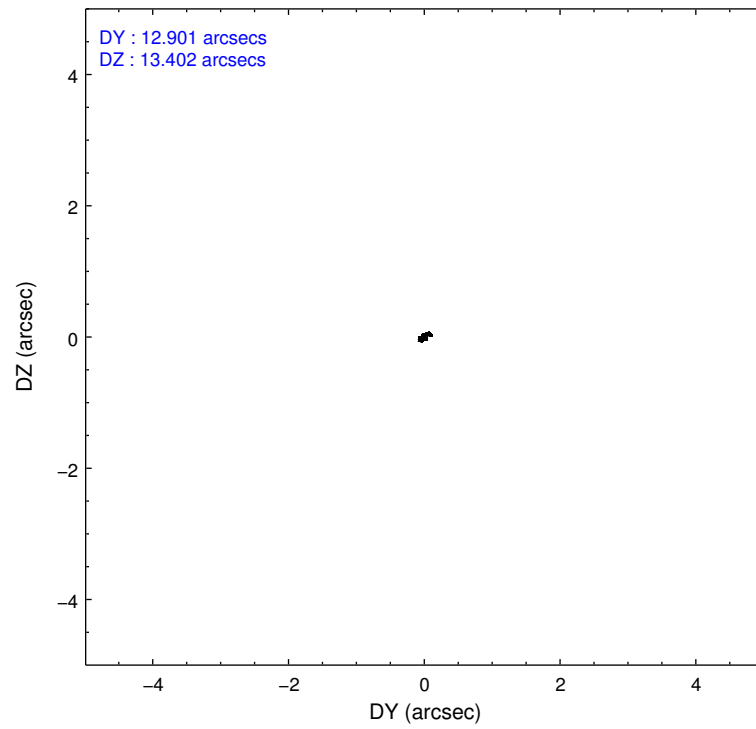
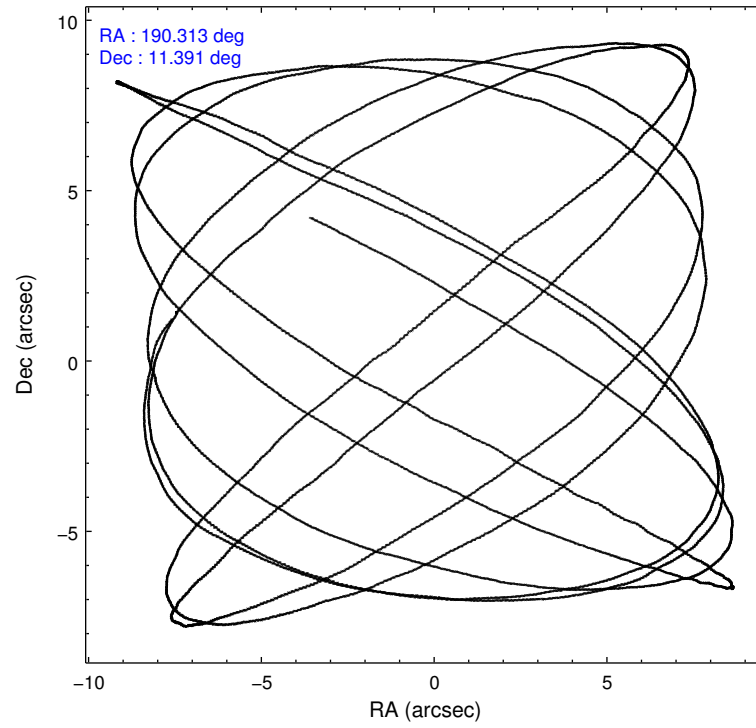
2.1.4 Events

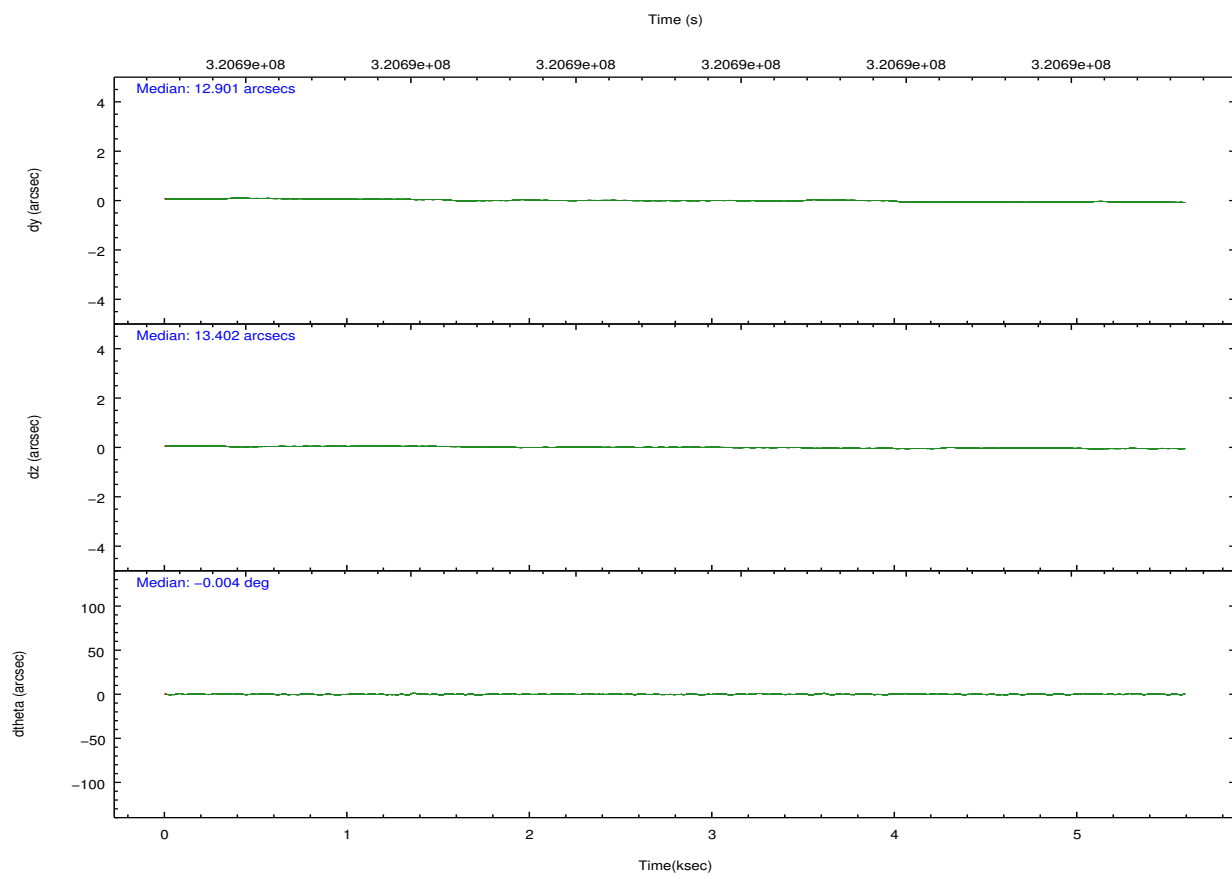
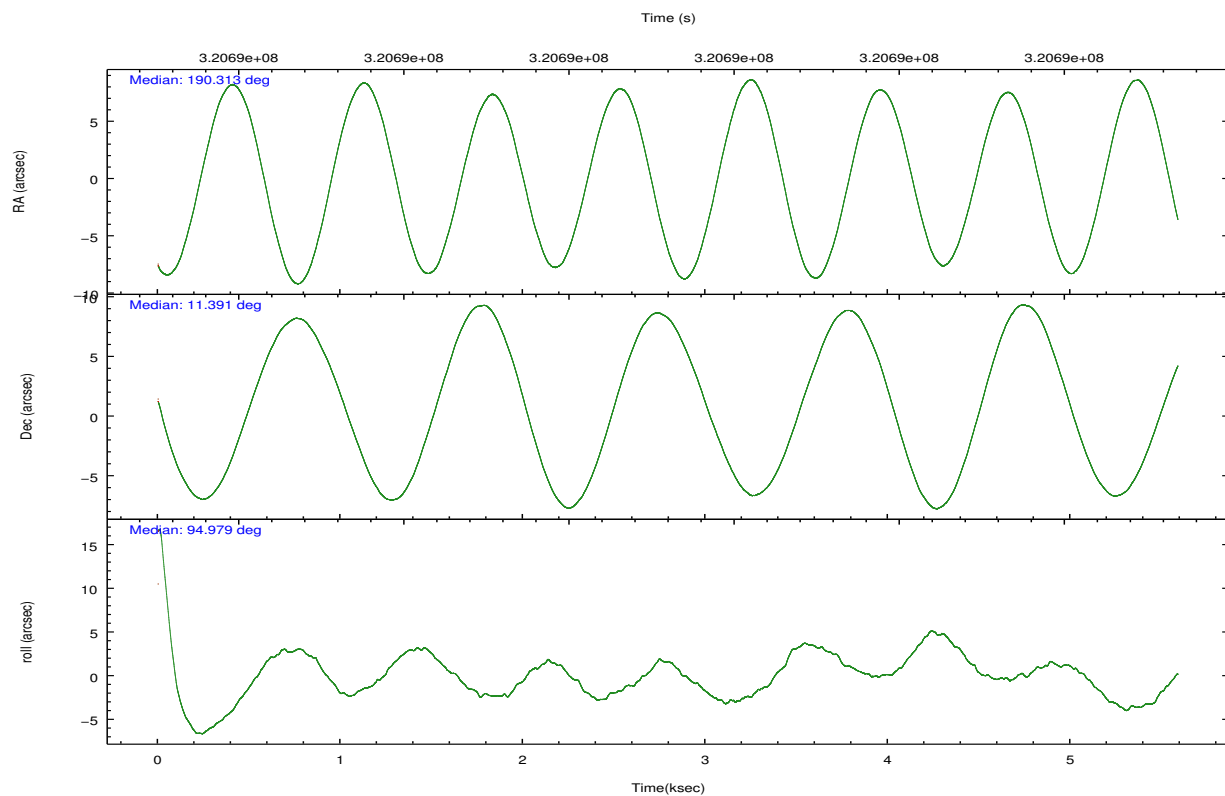
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	49848	47603	80981	49075	68013	66326	grade 0 events	2365	2702	6153	2397	2430	4704
rejected events	44220	41525	42467	42957	39717	52135		4%	5%	7%	4%	3%	7%
rejected %	88%	87%	52%	87%	58%	78%	grade 1 events	30	26	259	30	82	56
								0%	0%	0%	0%	0%	0%
							grade 2 events	1282	1166	11062	1368	5770	3118
								2%	2%	13%	2%	8%	4%
							grade 3 events	515	596	1217	546	2425	1523
								1%	1%	1%	1%	3%	2%
							grade 4 events	499	560	1199	568	2327	1372
								1%	1%	1%	1%	3%	2%
							grade 5 events	1989	2253	5333	2215	6419	3101
								3%	4%	6%	4%	9%	4%
							grade 6 events	969	1058	18910	1241	15365	3477
								1%	2%	23%	2%	22%	5%
							grade 7 events	42199	39242	36848	40710	33195	48975
								84%	82%	45%	82%	48%	73%

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	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	190.328763	190.3124642131557	CCD I2 on	O1	Y
[deg] Pointing Dec	11.368789	11.39085530141953	CCD I3 on	O2	Y
[deg] Pointing Roll	94.821264	94.98114935342684	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O3	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	O4	Y
[s] Observation start time (MET)	320688993.184000	320688616.47794	CCD S5 on	N	N
Observation start date	2008-02-29T16:15:28	2008-02-29T16:10:16	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	320694393.184000	320695349.70326	On-chip summing requested	N	N
Observation end date	2008-02-29T17:45:28	2008-02-29T18:02:29	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



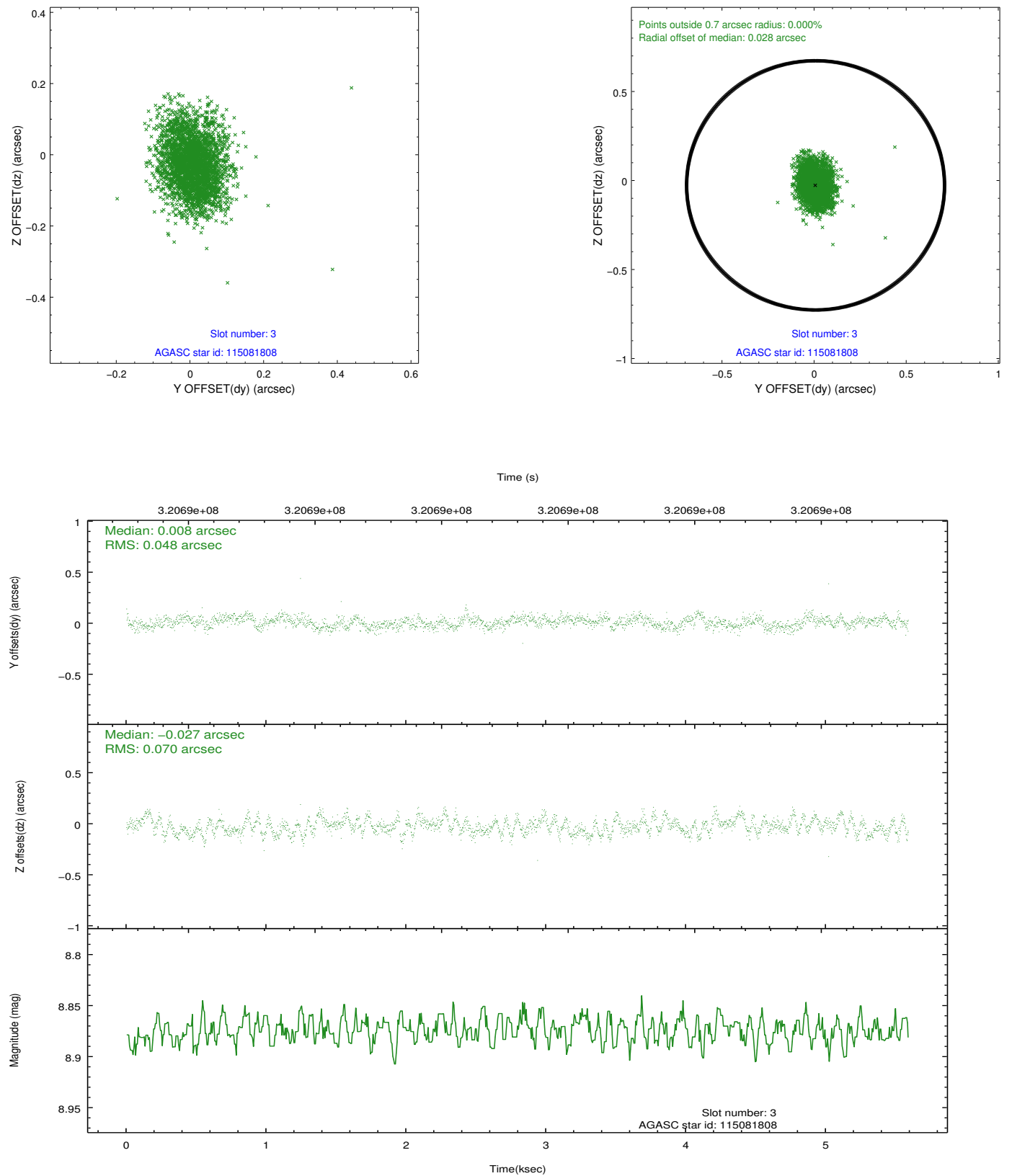


Slot Statistics

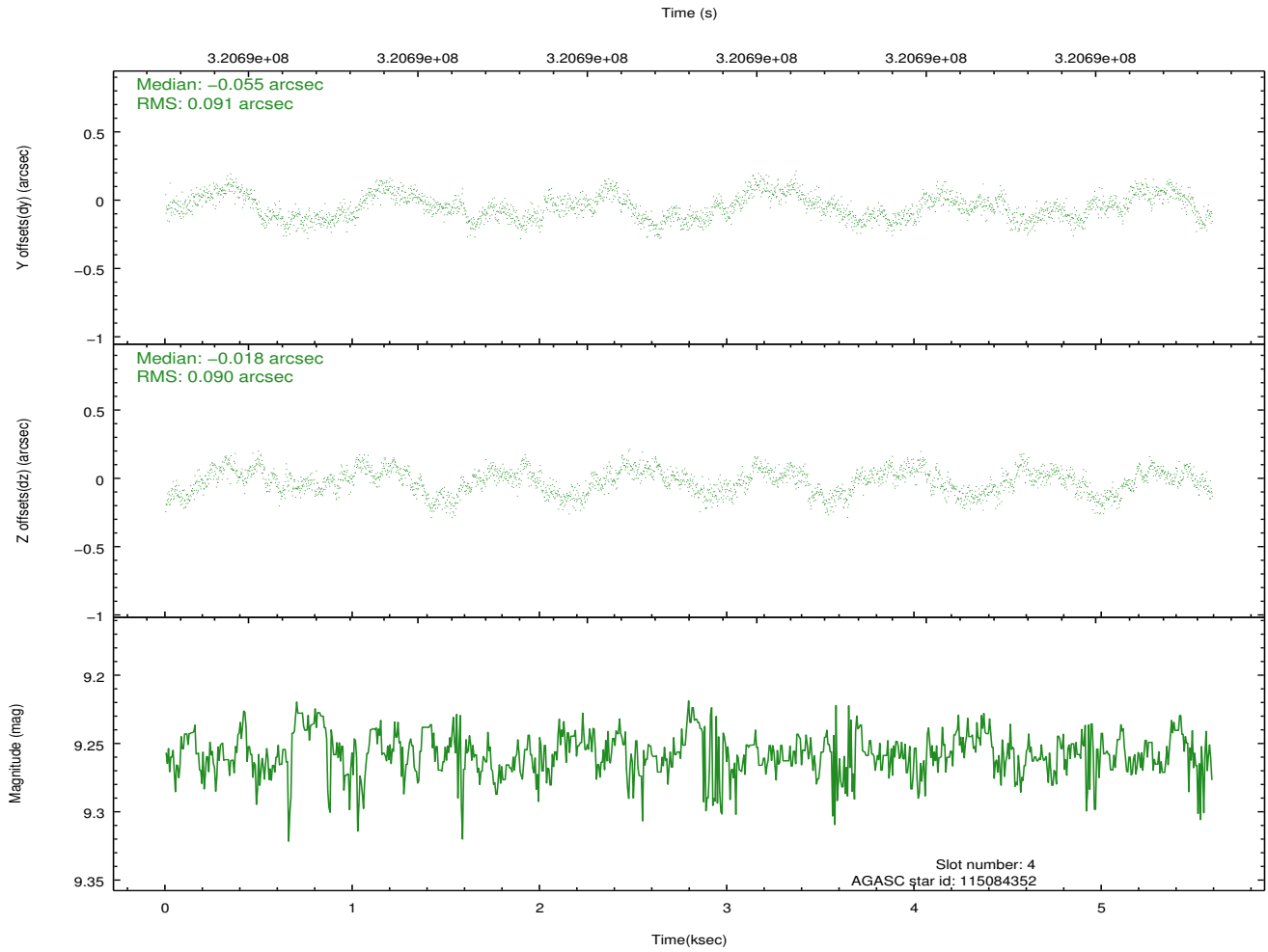
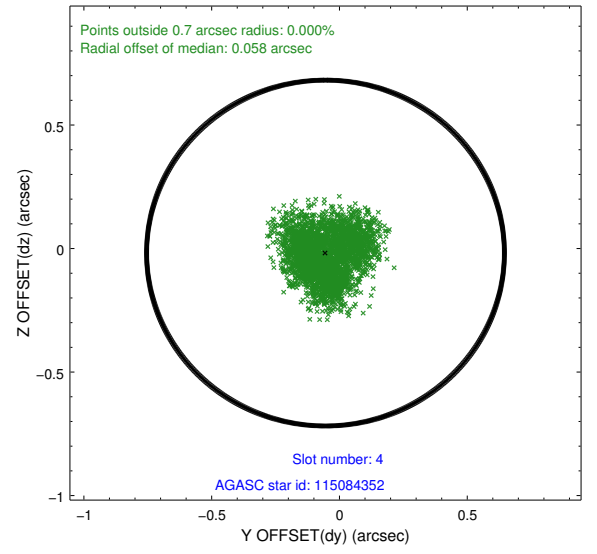
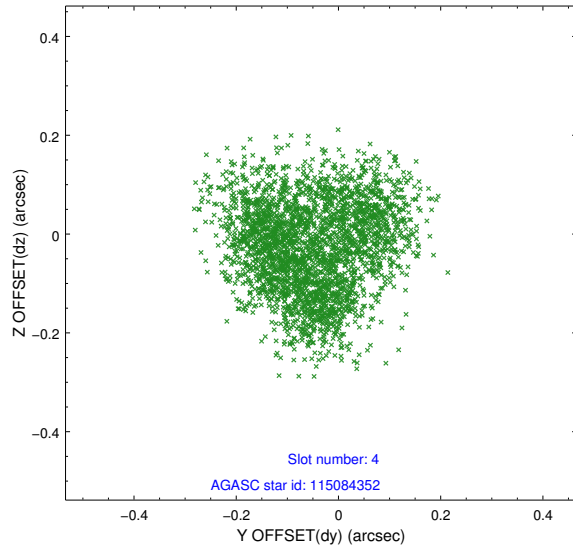
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1364	-0.030	-0.060	0.007	0.010	0.000000	0.000000	-765.85	-1734.75
1	FID	ACIS-S-4	7.19	1364	0.151	0.031	0.007	0.012	0.000000	0.000000	2147.12	172.71
2	FID	ACIS-S-5	7.23	1364	-0.152	0.038	0.007	0.011	0.000000	0.000000	-1817.43	167.62
3	GUIDE	115081808	8.87	2726	0.008	-0.027	0.089	0.147	191.005561	10.921316	-1802.69	-2248.29
4	GUIDE	115084352	9.26	2718	-0.055	-0.018	0.139	0.208	190.760225	11.783180	1359.11	-1640.72
5	GUIDE	115086480	9.76	2720	0.126	0.309	0.147	0.225	190.542253	10.883394	-1802.92	-605.32
6	GUIDE	115087784	8.86	2725	-0.020	-0.305	0.086	0.142	190.162527	10.931081	-1520.41	718.22
7	GUIDE	115089400	9.85	2722	-0.066	0.050	0.130	0.210	190.425194	11.760272	1375.54	-457.24

2.4 Star Slots

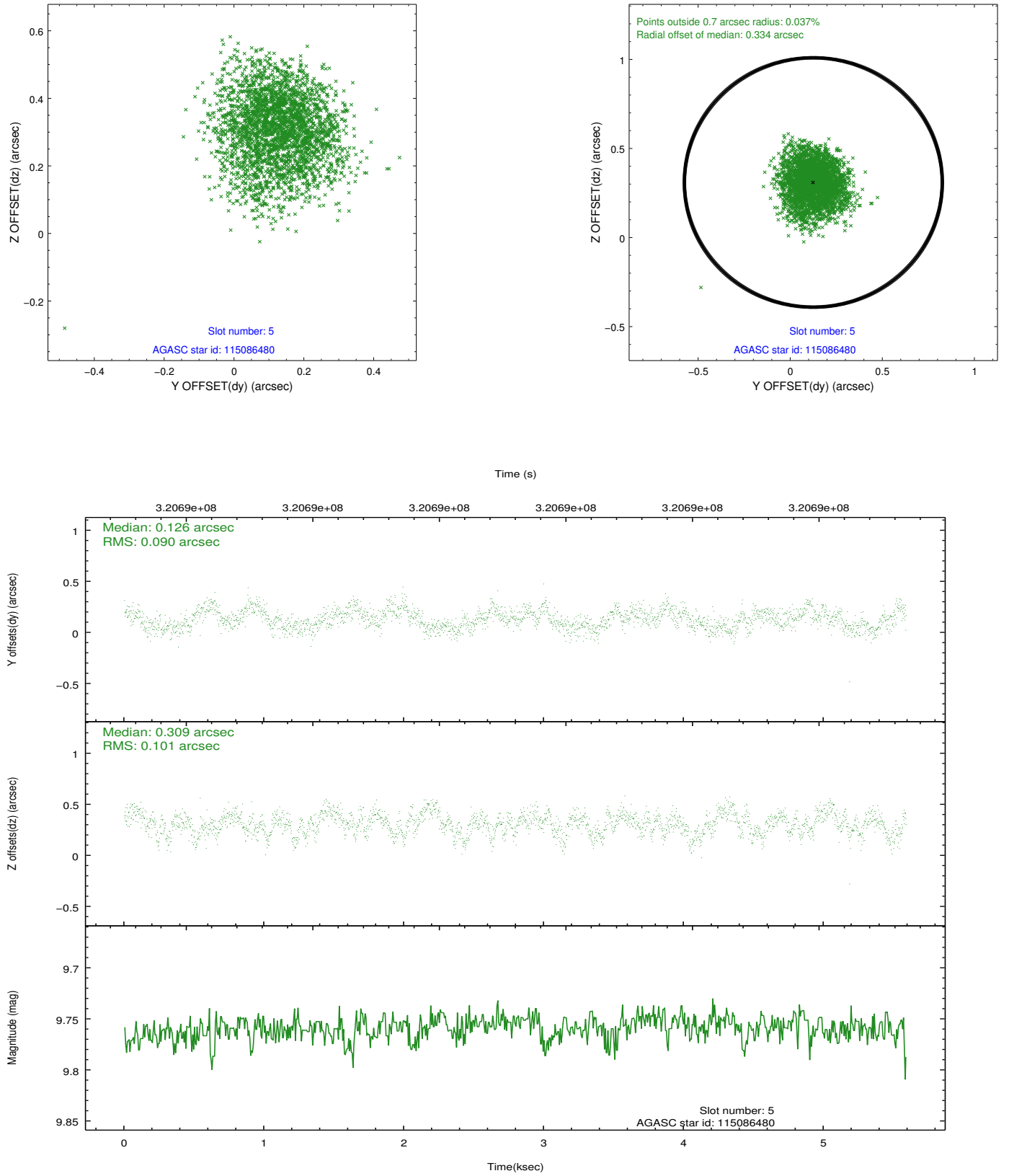
2.4.1 Slot 3



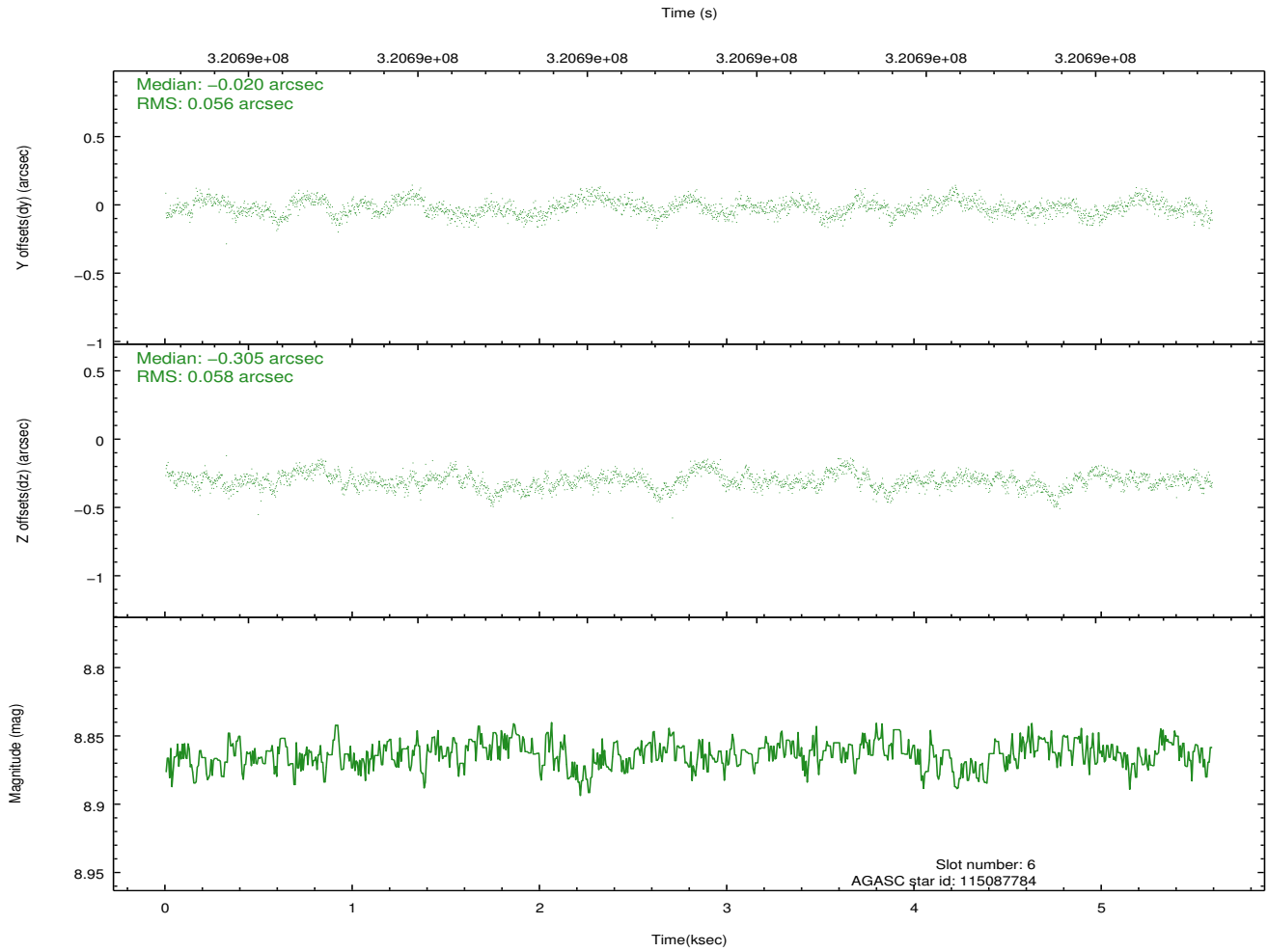
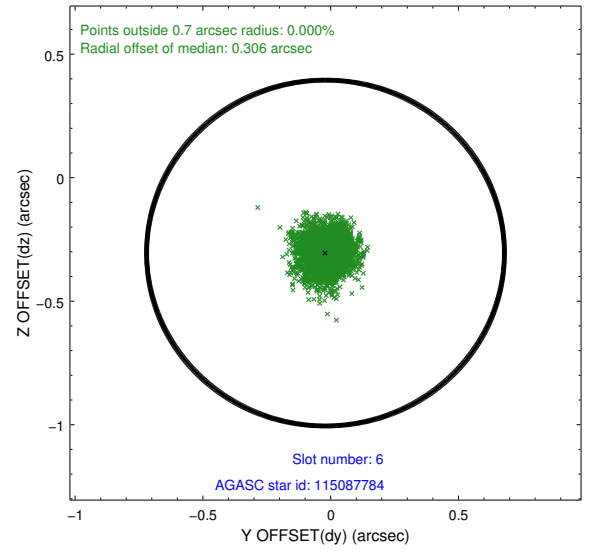
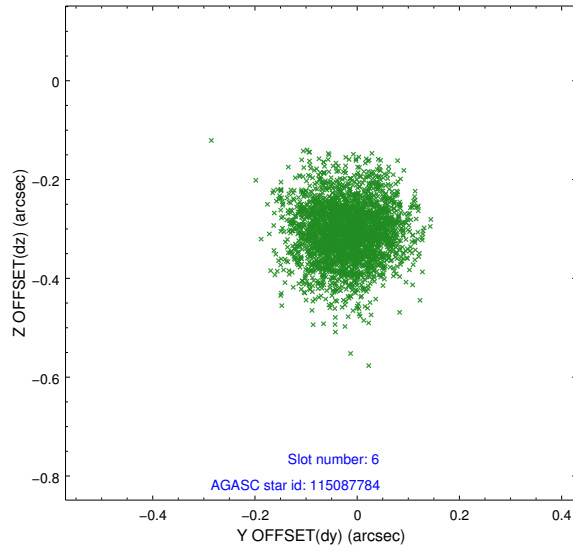
2.4.2 Slot 4



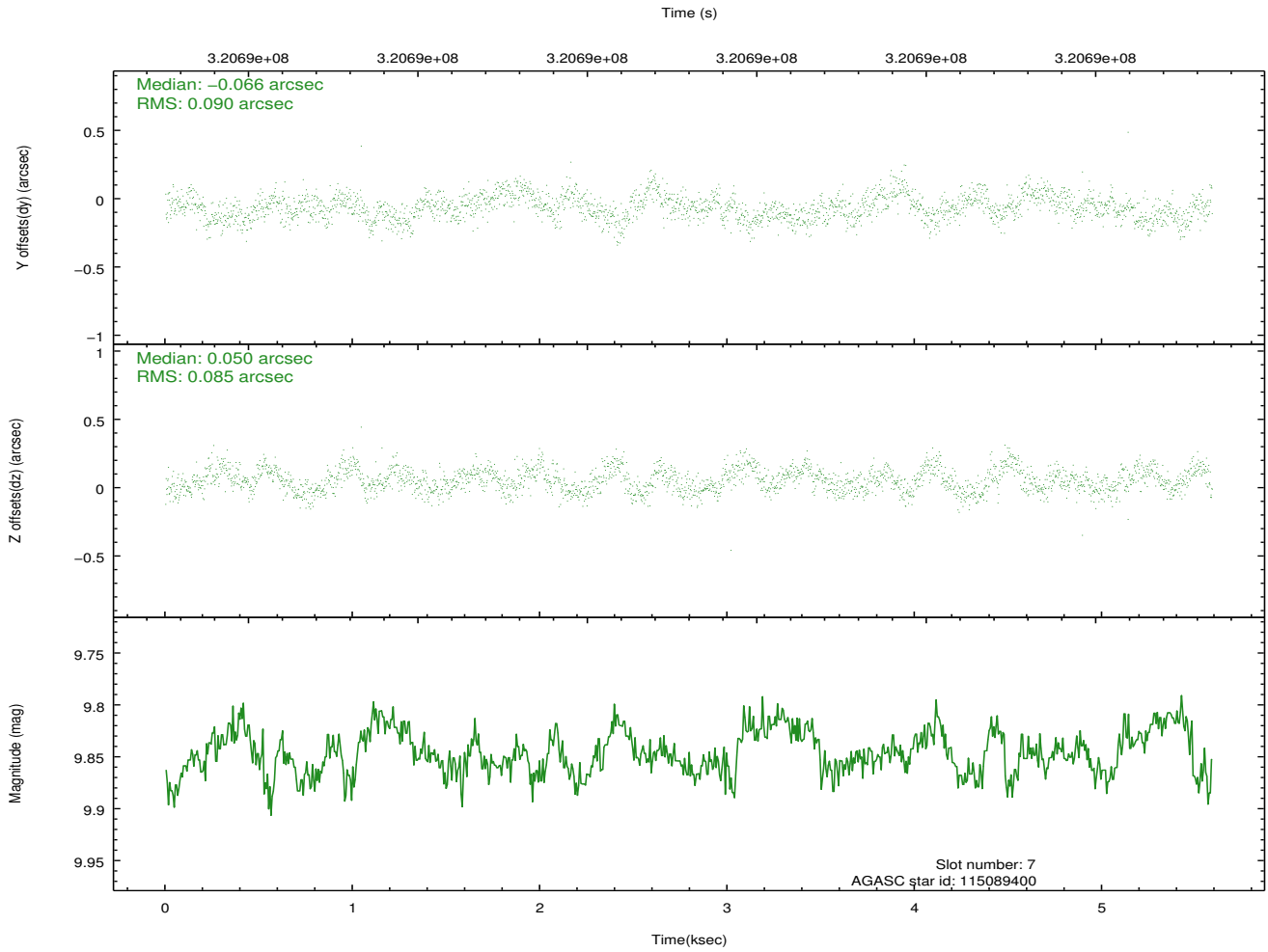
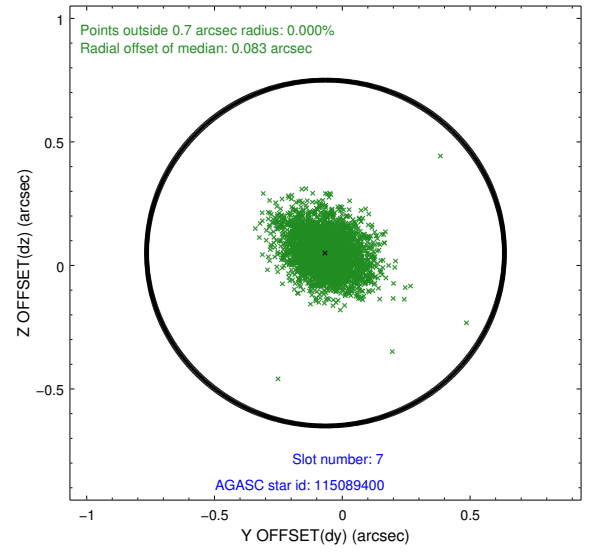
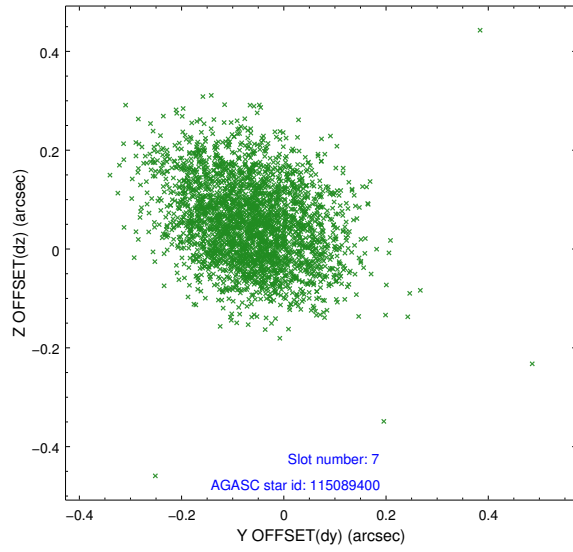
2.4.3 Slot 5



2.4.4 Slot 6

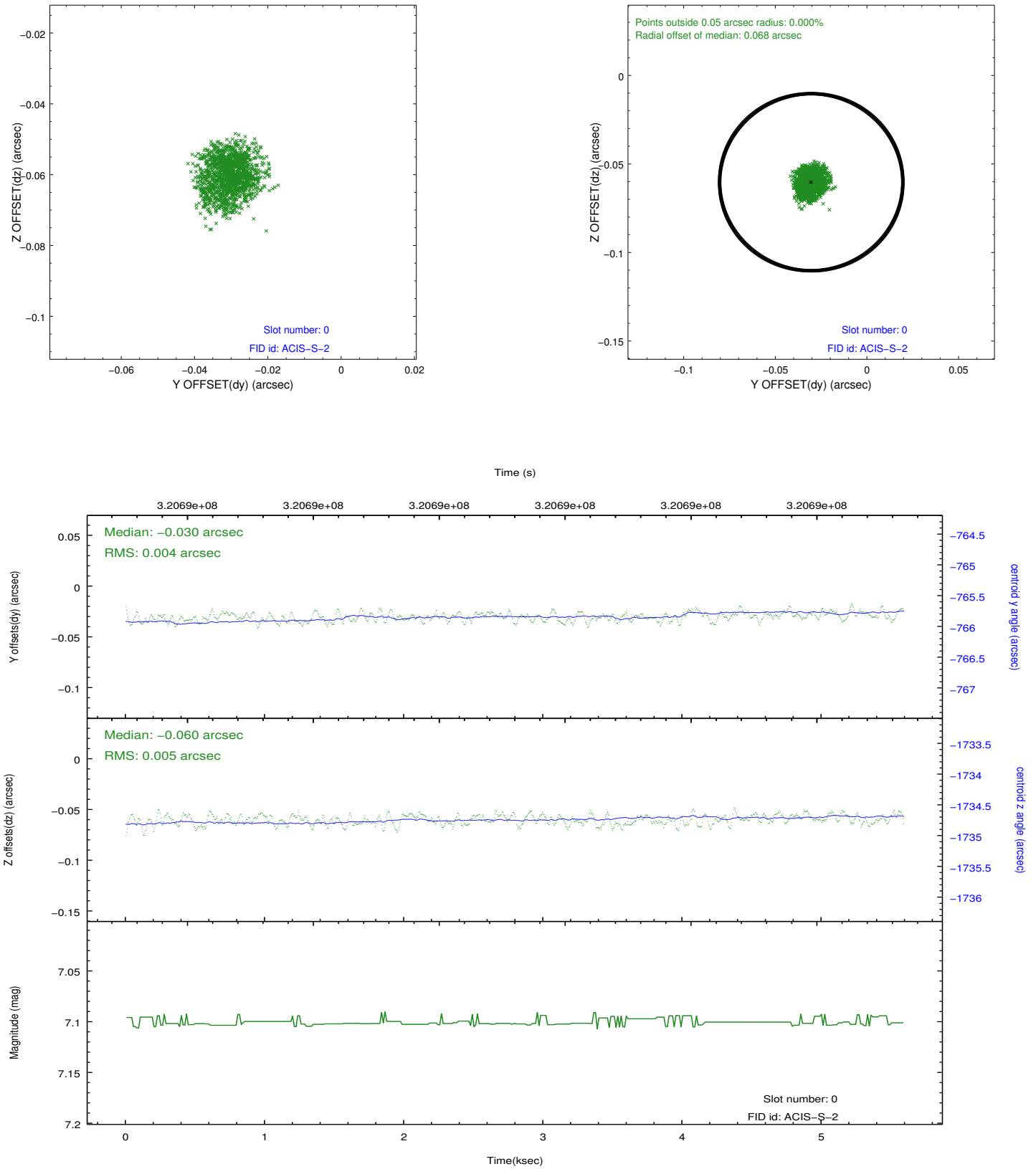


2.4.5 Slot 7

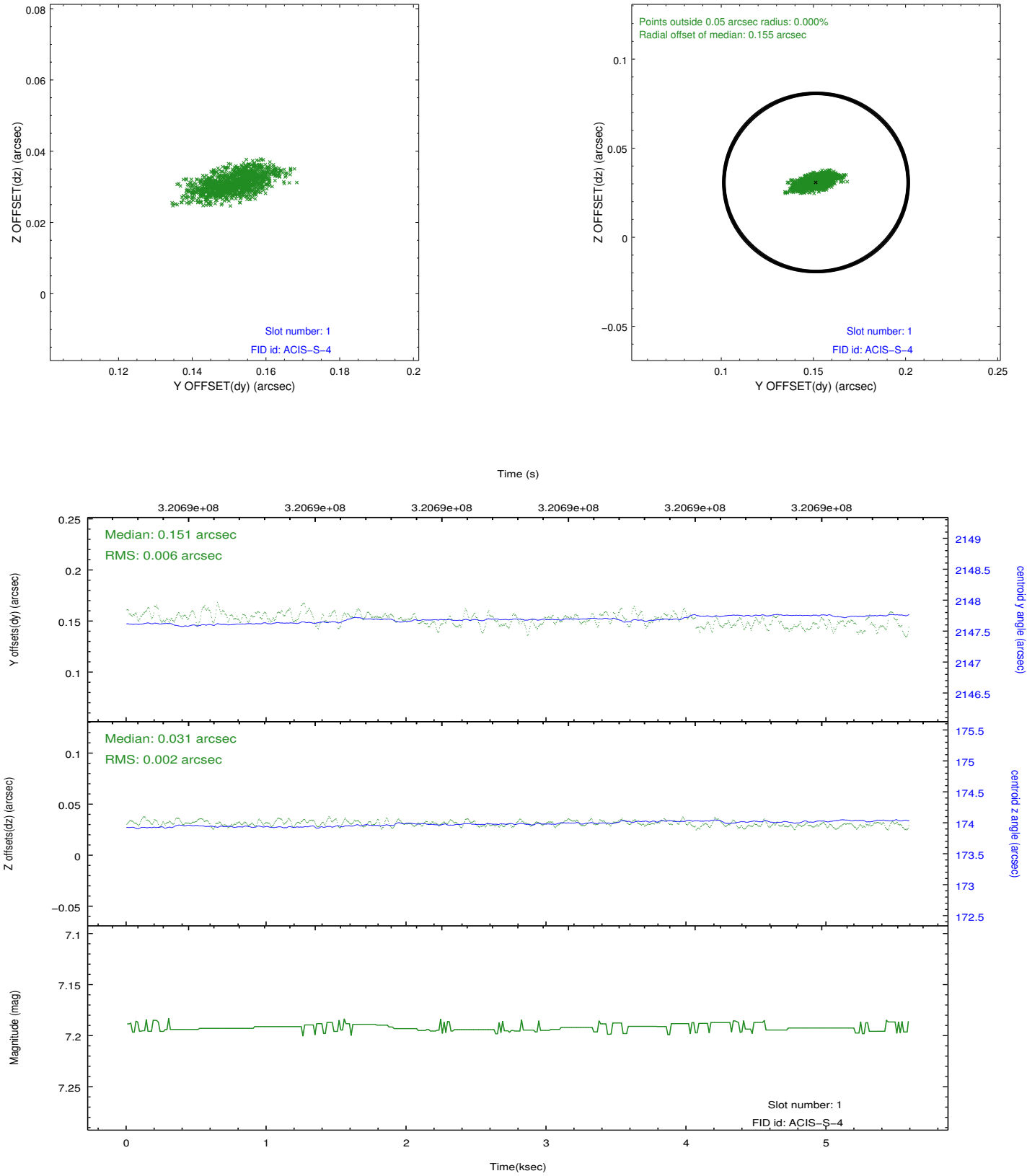


2.5 FID Slots

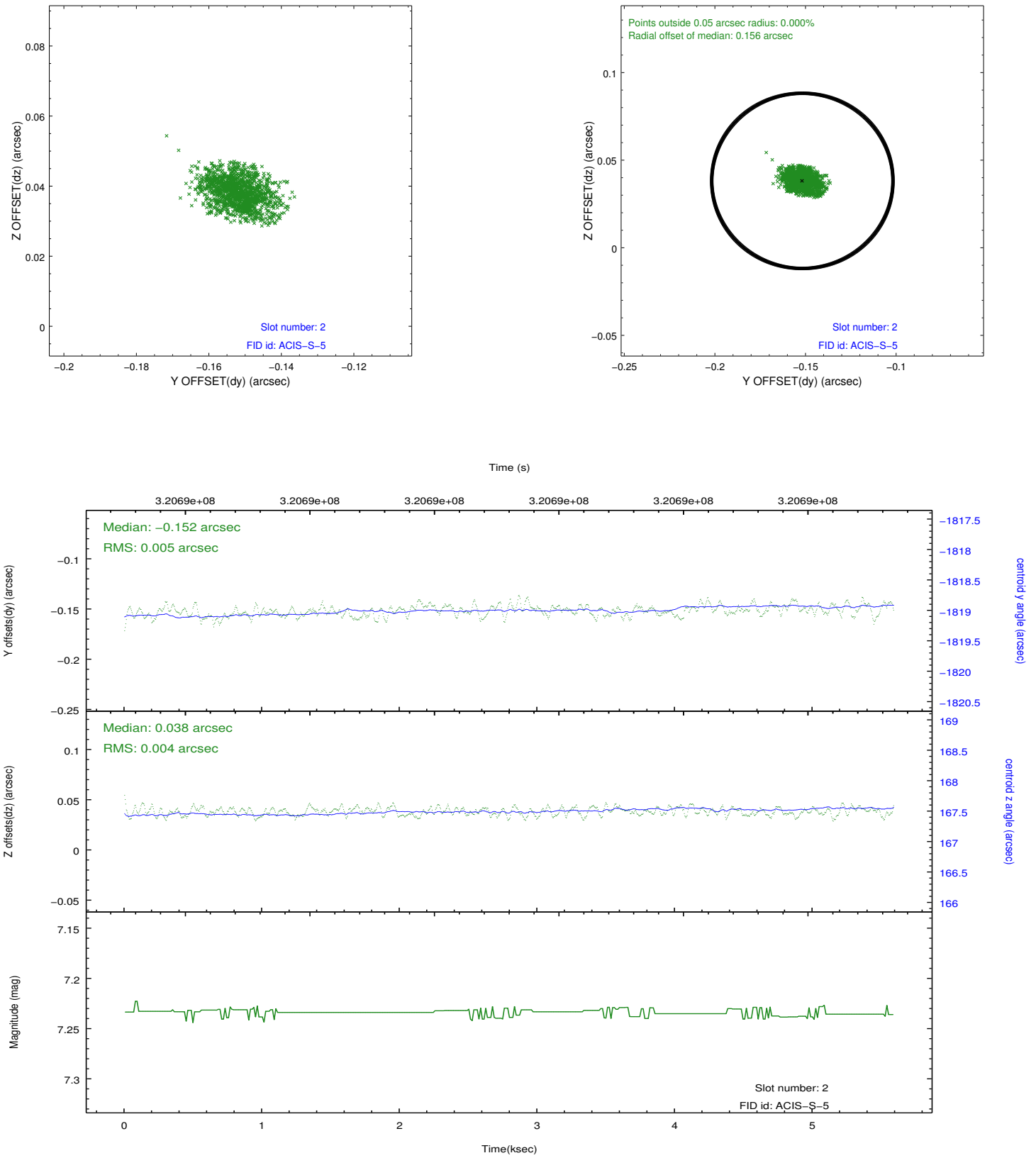
2.5.1 Slot 0



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)	2012.05.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.15519998

A.2 Comments

Joint Proposal: Spitzer