

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8044 - L2 Version 2
Chandra X-Ray Center

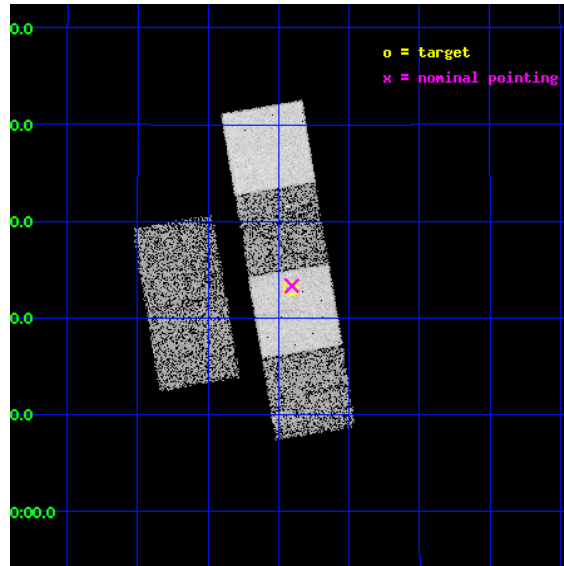
L2 Processing Date : May 9 2012

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1 Front

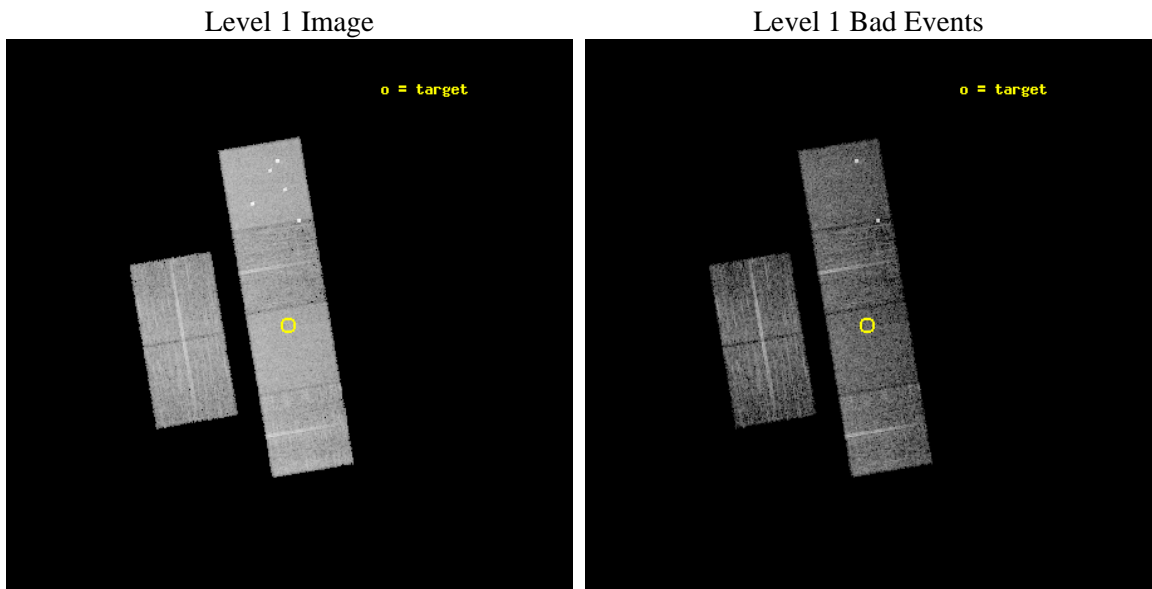
seq_num	900585	Sequence number
obs_id	8044	Observation id
title	The Duty Cycle of Supermassive Black Holes: X-raying Virgo	Proposa
observer	Prof Tommaso Treu	Principal investigator
object	1661	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	189.103333	Observer's specified target RA [deg]
dec_targ	10.384611	Observer's specified target Dec [deg]
ra_nom	189.10148845864	Nominal RA [deg]
dec_nom	10.389009762412	Nominal Dec [deg]
roll_nom	80.461029728537	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4953.4031319022	Sum of GTIs [s]
livetime	4890.6801588648	Livetime [s]
ontime2	4953.4441719055	Sum of GTIs [s]
ontime3	4953.2800118923	Sum of GTIs [s]
ontime5	4953.3620918989	Sum of GTIs [s]
ontime6	4953.3210518956	Sum of GTIs [s]
ontime7	4953.4031319022	Sum of GTIs [s]
ontime8	4949.9979219437	Sum of GTIs [s]
l2events	78546	Number of level 2 events



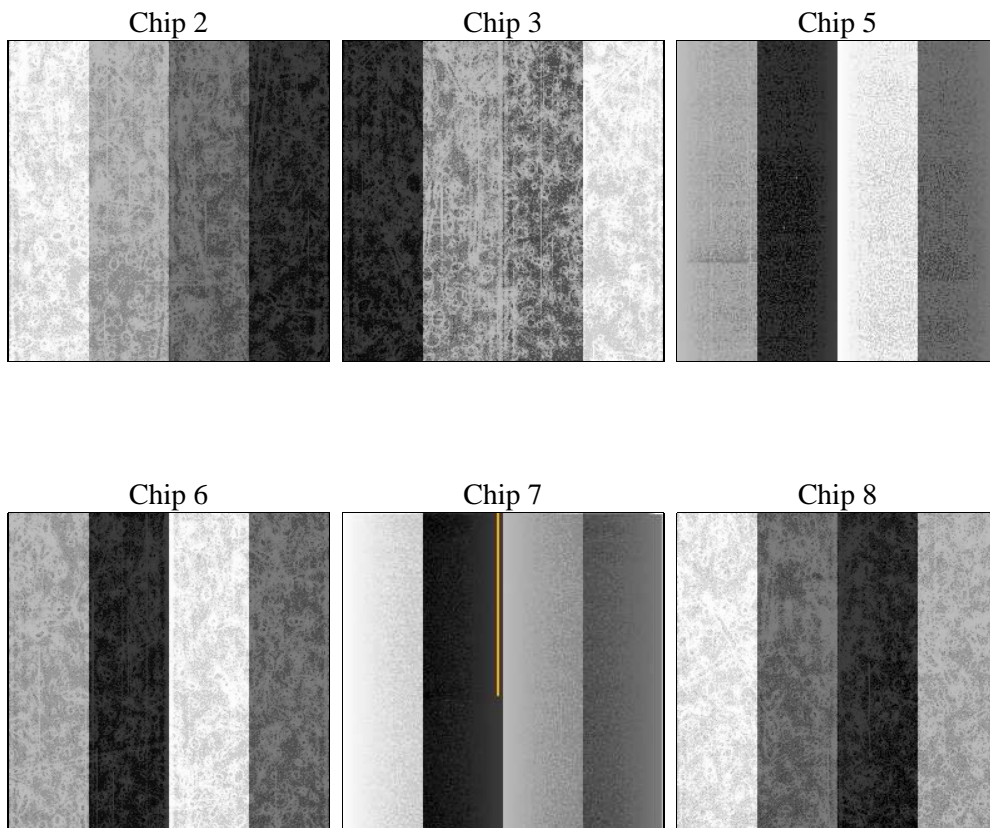
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5200.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	4953.4031319022	Sum of GTIs [s]
caldsver	4.4.9	 	ontime2	4953.4441719055	Sum of GTIs [s]
date	2012-05-09T18:08:12	Date and time of file creation	ontime3	4953.2800118923	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	4953.3620918989	Sum of GTIs [s]
			ontime6	4953.3210518956	Sum of GTIs [s]
			ontime7	4953.4031319022	Sum of GTIs [s]
			ontime8	4949.9979219437	Sum of GTIs [s]
			l1events	346183	Number of level 1 events

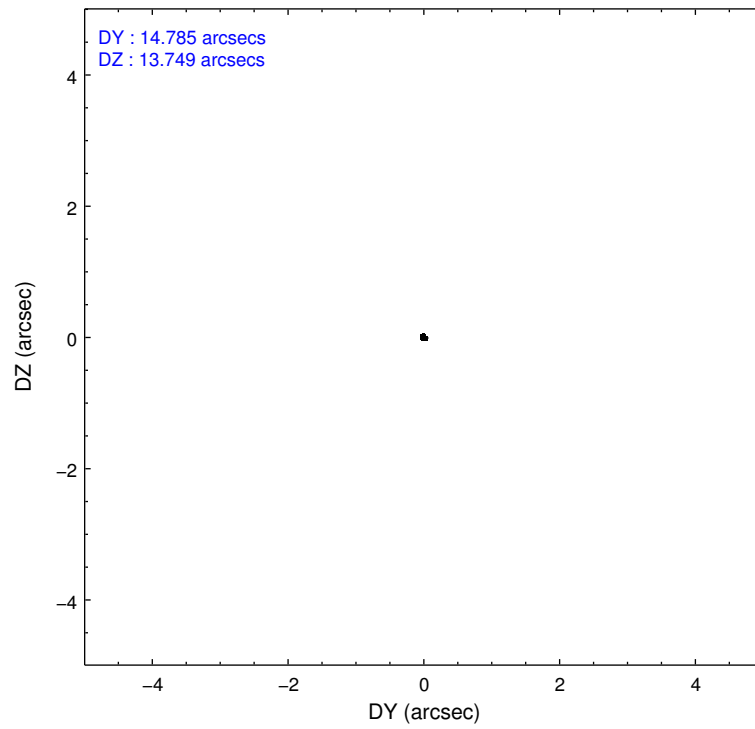
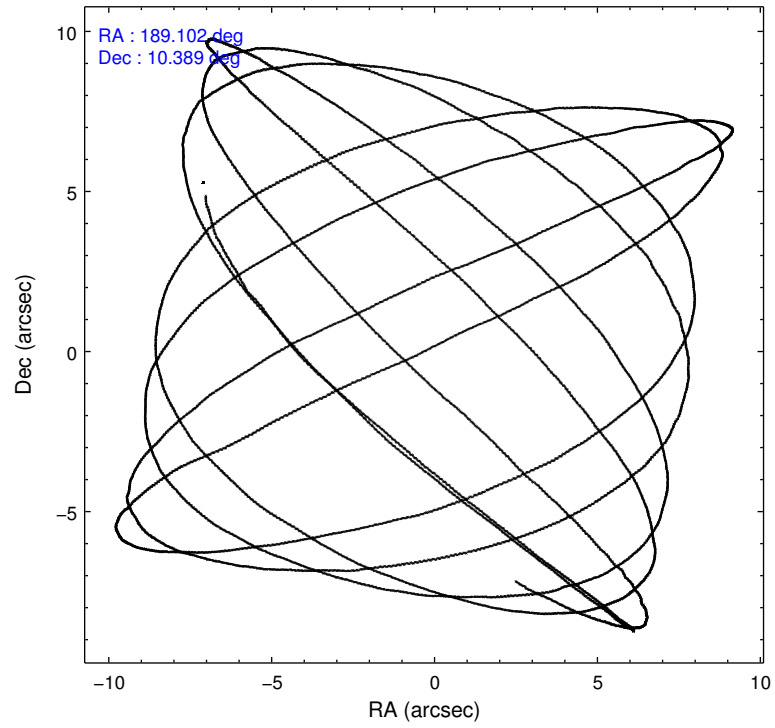
2.1.4 Events

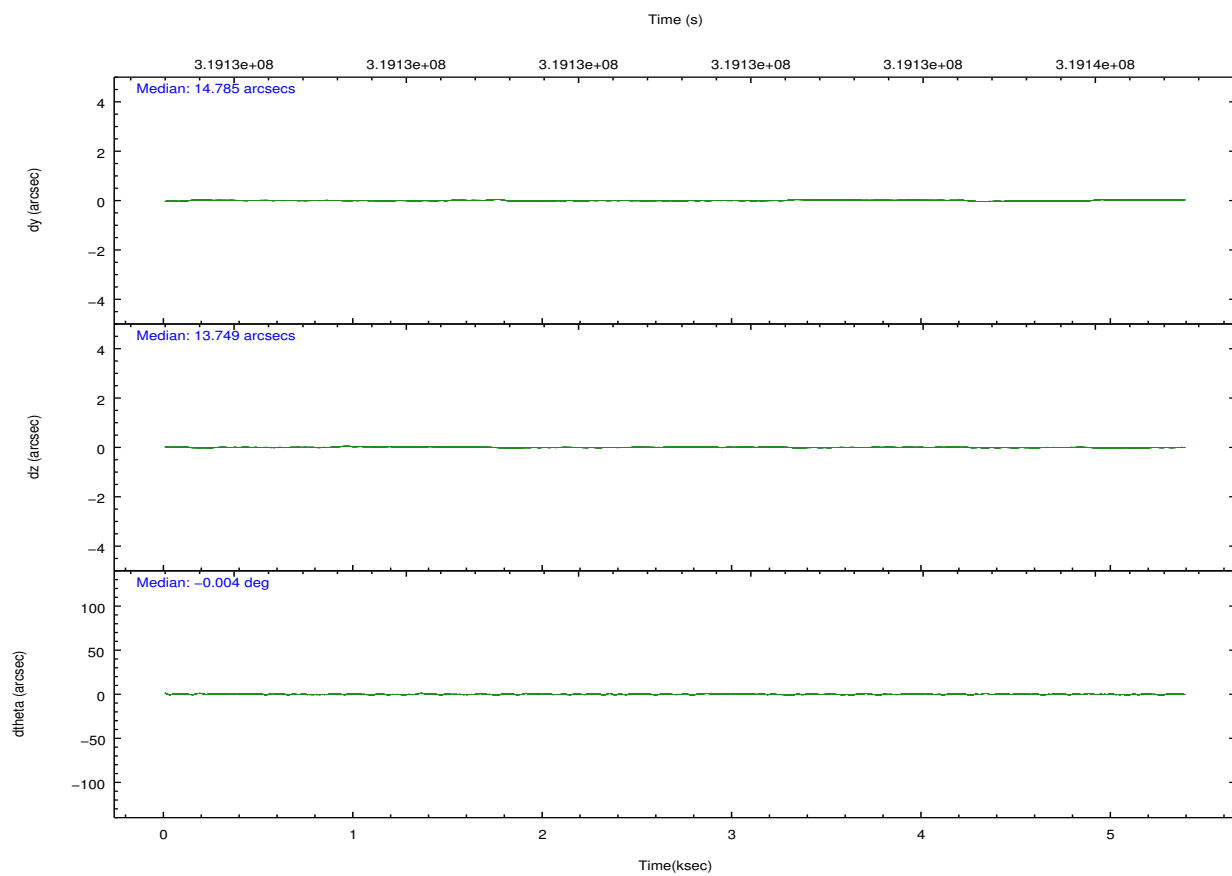
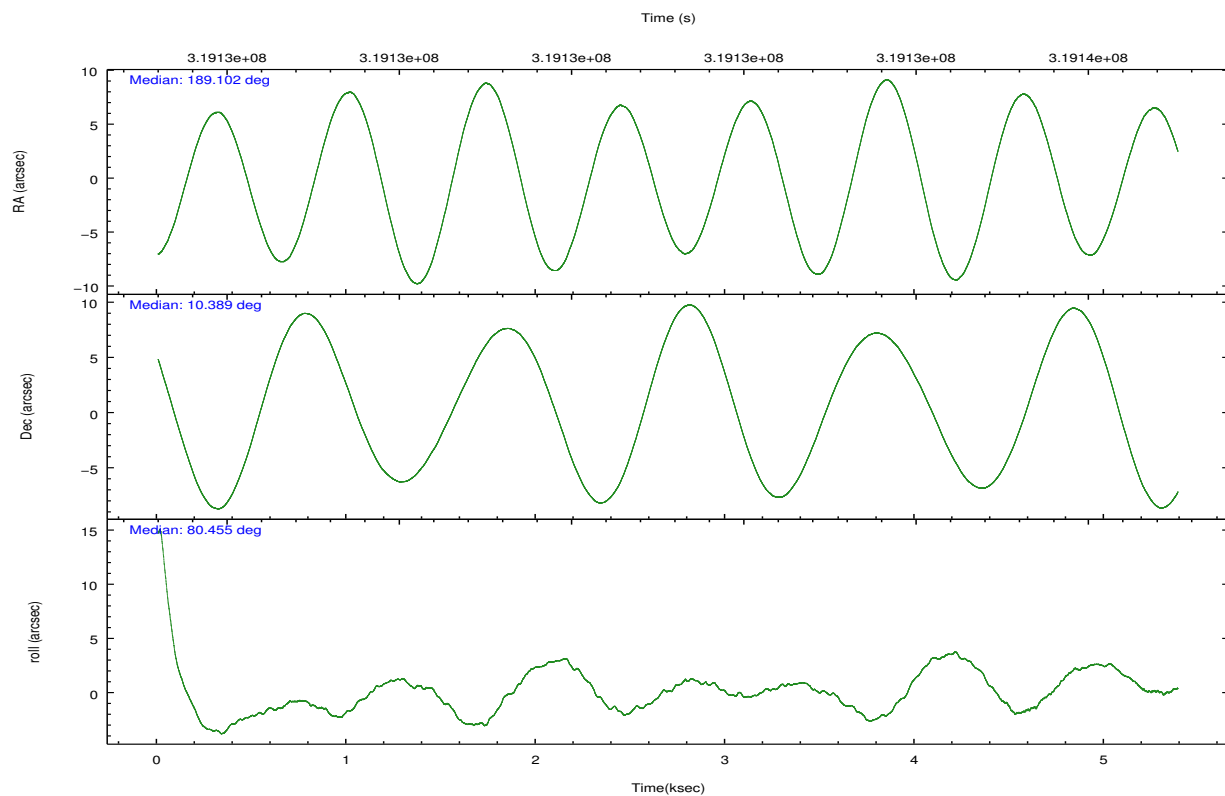
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	48547	46713	76906	45611	65250	63156	grade 0 events	2498	2463	5199	2373	2415	4282
rejected events	42839	41147	40413	39808	38082	49532		5%	5%	6%	5%	3%	6%
rejected %	88%	88%	52%	87%	58%	78%	grade 1 events	35	35	590	22	67	48
								0%	0%	0%	0%	0%	0%
							grade 2 events	1191	1069	10659	1315	5482	3192
								2%	2%	13%	2%	8%	5%
							grade 3 events	529	472	1194	477	2309	1432
								1%	1%	1%	1%	3%	2%
							grade 4 events	542	516	1129	482	2269	1312
								1%	1%	1%	1%	3%	2%
							grade 5 events	1839	2155	5495	2190	6072	2753
								3%	4%	7%	4%	9%	4%
							grade 6 events	956	1053	18353	1161	14732	3412
								1%	2%	23%	2%	22%	5%
							grade 7 events	40957	38950	34287	37591	31904	46725
								84%	83%	44%	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	189.111542	189.1014884586447	CCD I2 on	O1	Y
[deg] Pointing Dec	10.363621	10.38900976241161	CCD I3 on	O2	Y
[deg] Pointing Roll	80.302585	80.46102972853723	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)	319130049.184000	319129622.15225	CCD S5 on	N	N
Observation start date	2008-02-11T15:13:04	2008-02-11T15:07:02	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	319135249.184000	319135457.99004	On-chip summing requested	N	N
Observation end date	2008-02-11T16:39:44	2008-02-11T16:44:17	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



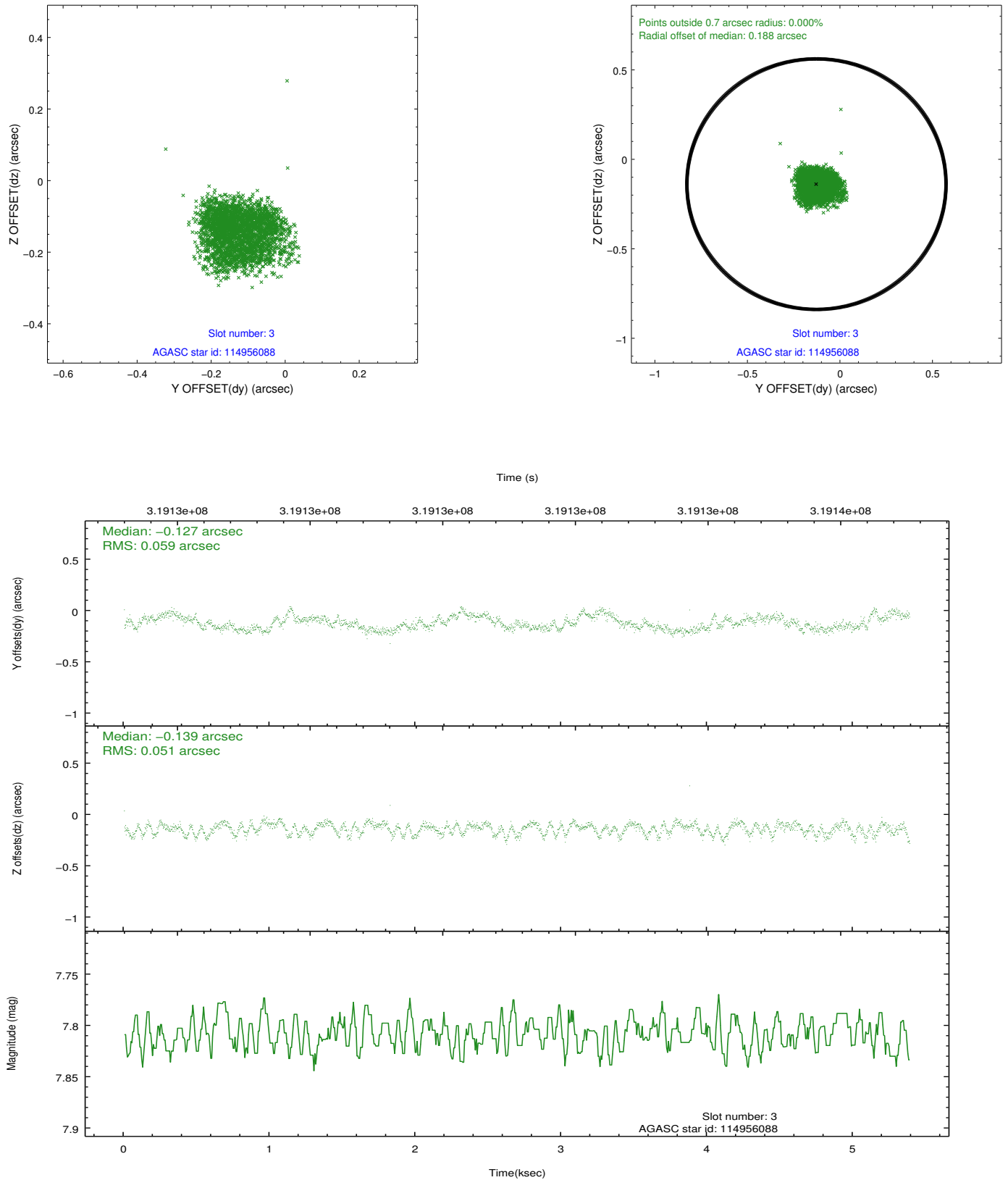


Slot Statistics

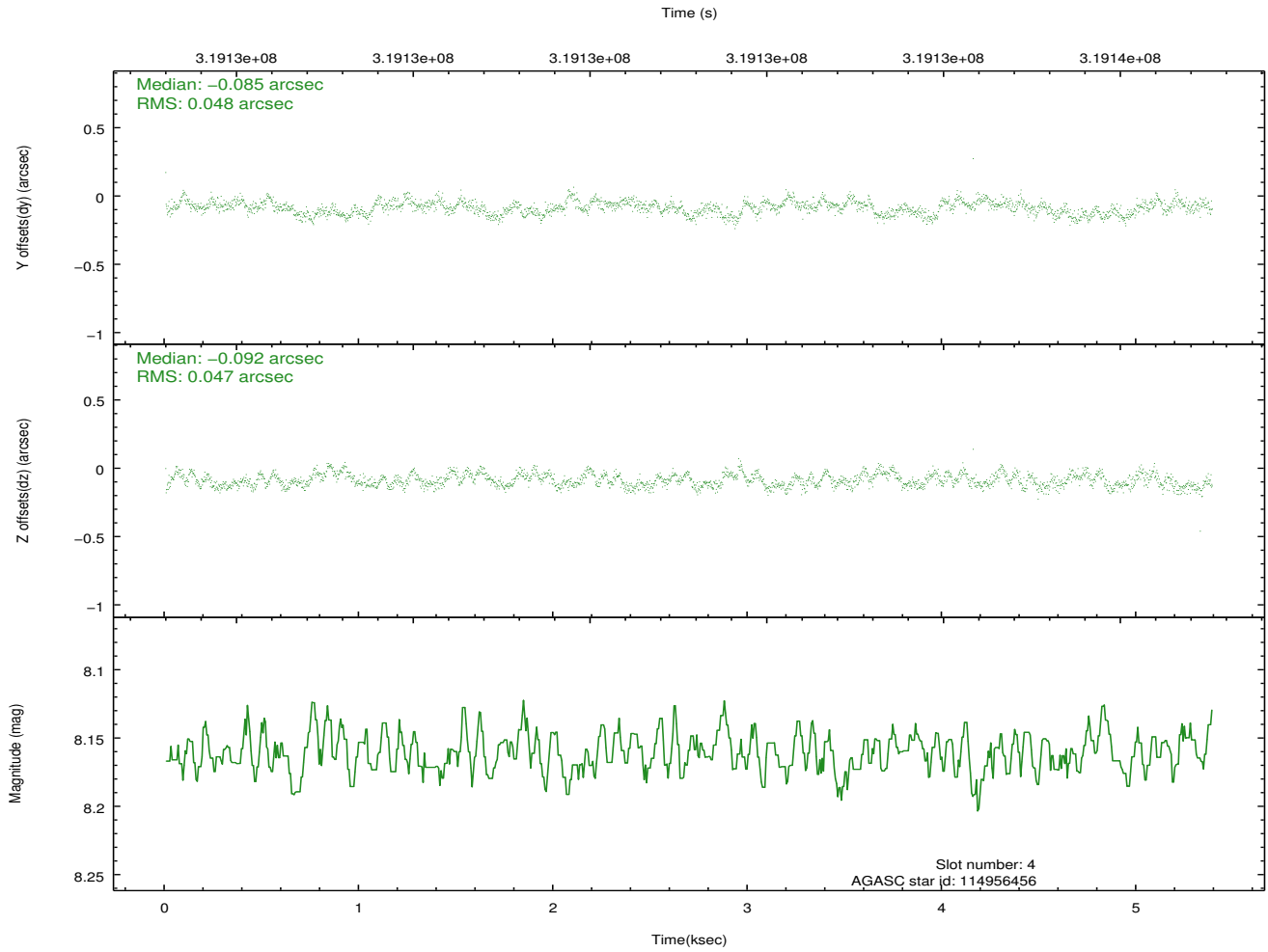
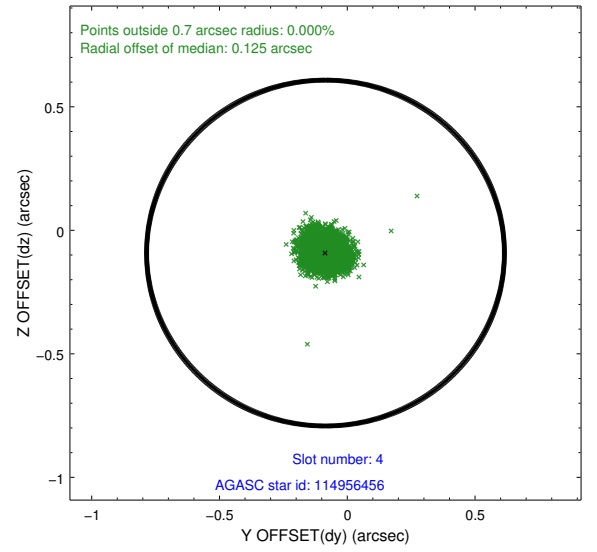
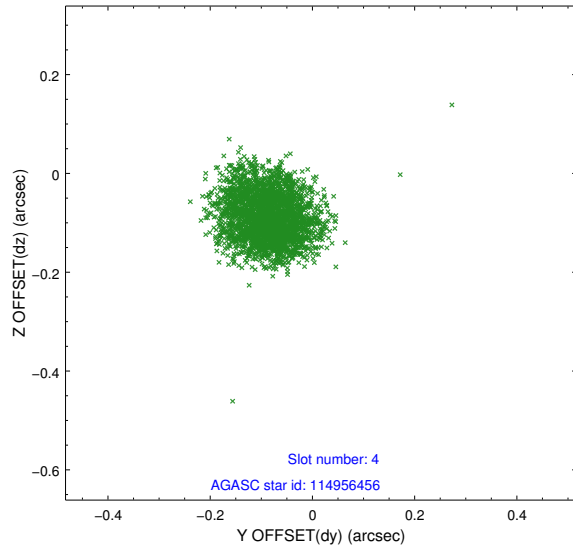
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1314	-0.077	-0.071	0.007	0.012	0.000000	0.000000	-767.84	-1735.11
1	FID	ACIS-S-4	7.19	1314	0.200	0.056	0.006	0.013	0.000000	0.000000	2145.21	172.32
2	FID	ACIS-S-5	7.22	1314	-0.153	0.023	0.008	0.012	0.000000	0.000000	-1819.31	167.26
3	GUIDE	114956088	7.81	2627	-0.127	-0.139	0.085	0.127	188.583972	10.921101	1665.34	2177.38
4	GUIDE	114956456	8.16	2628	-0.085	-0.092	0.072	0.112	188.716512	10.836292	1443.59	1664.72
5	GUIDE	115087152	7.19	2628	-0.024	0.185	0.056	0.086	189.409753	10.584138	962.04	-905.61
6	GUIDE	115089624	9.65	2622	0.147	0.197	0.135	0.215	189.471947	10.002512	-1064.28	-1478.48
7	GUIDE	115089856	8.80	2625	0.083	-0.148	0.070	0.116	189.118504	10.729832	1303.68	197.16

2.4 Star Slots

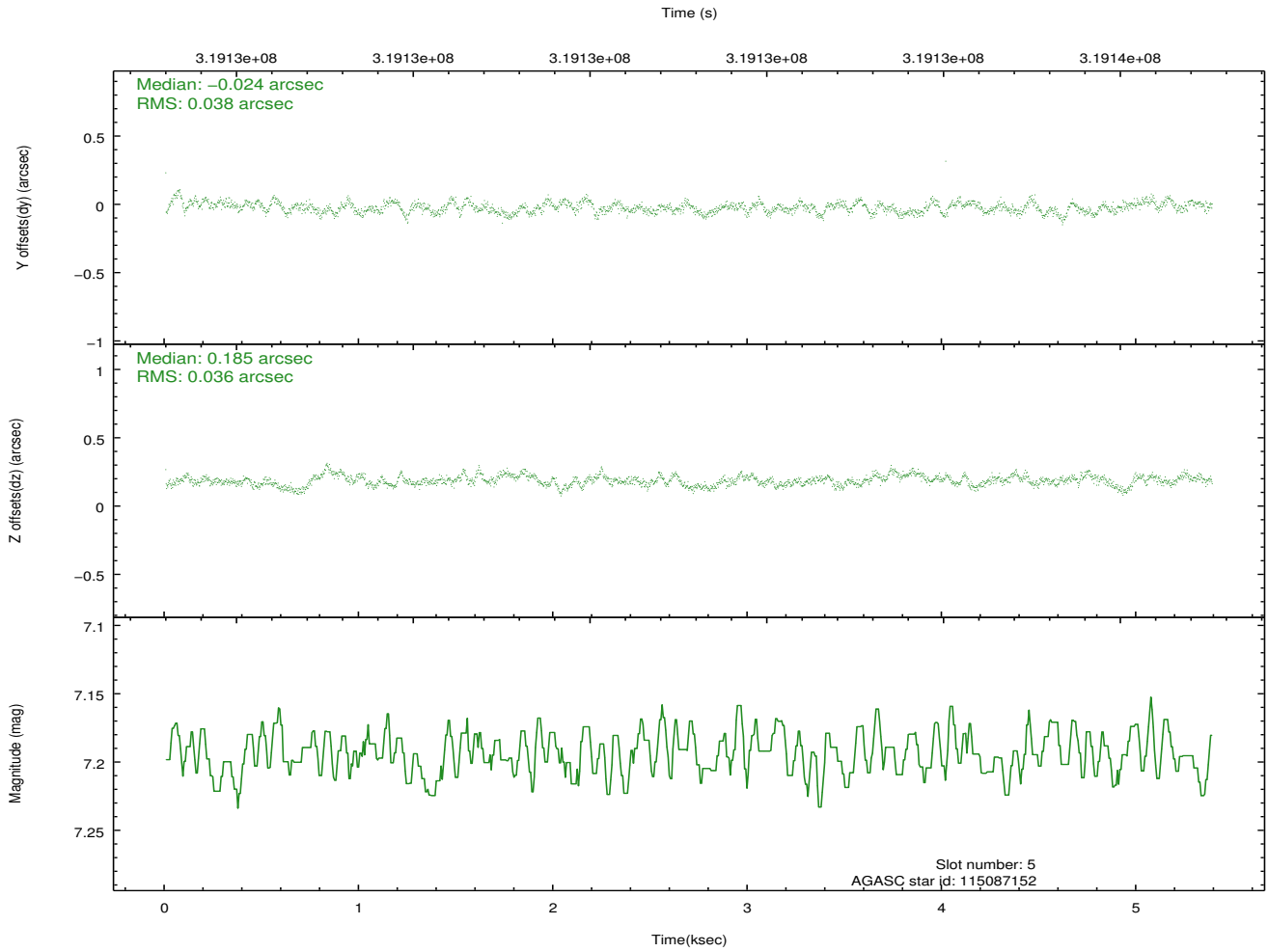
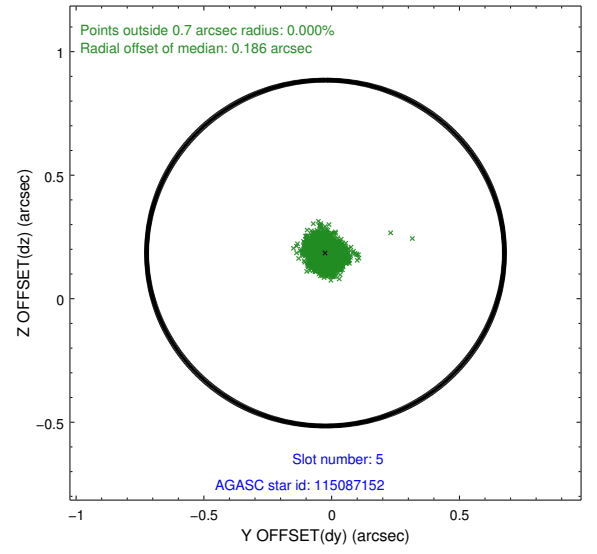
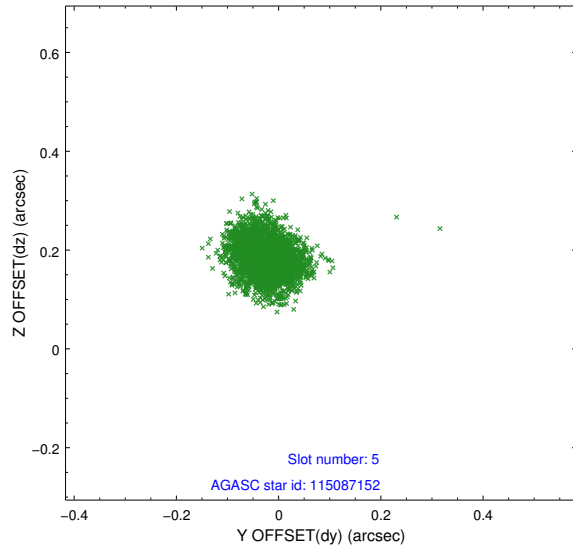
2.4.1 Slot 3



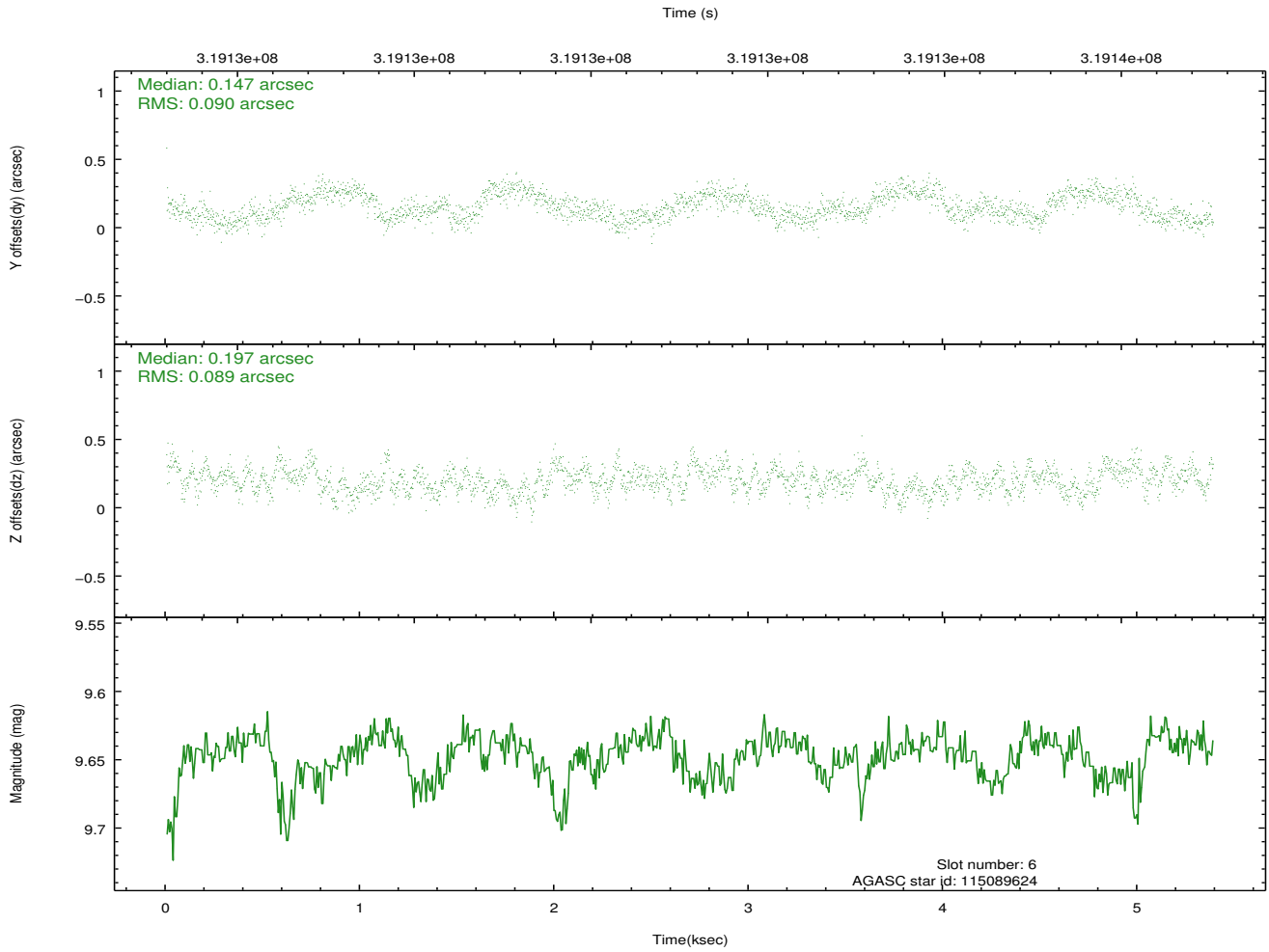
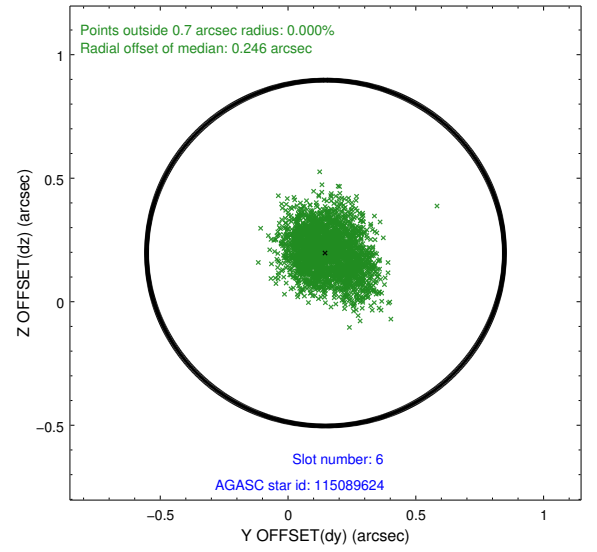
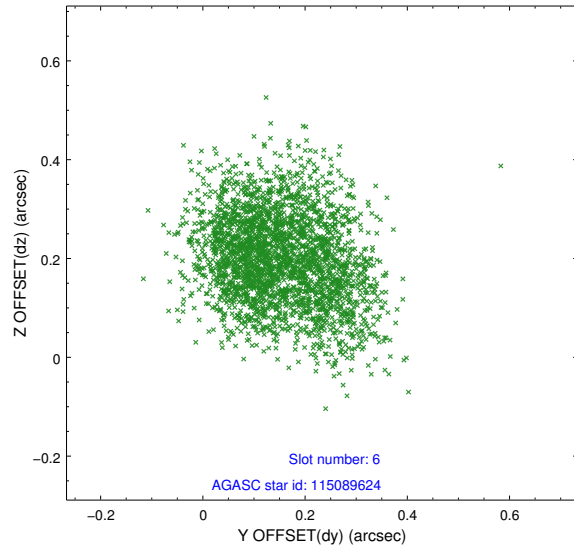
2.4.2 Slot 4



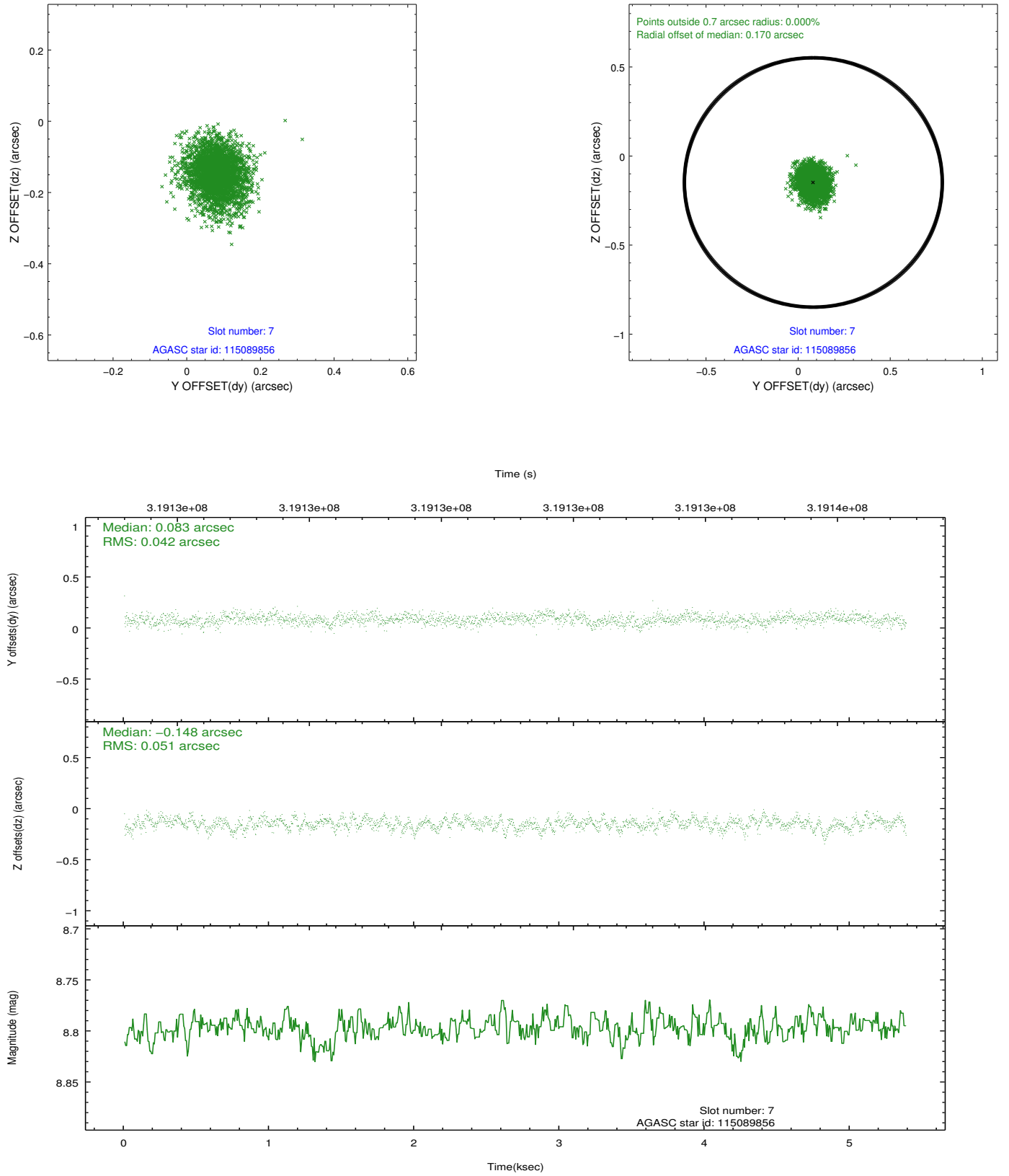
2.4.3 Slot 5



2.4.4 Slot 6

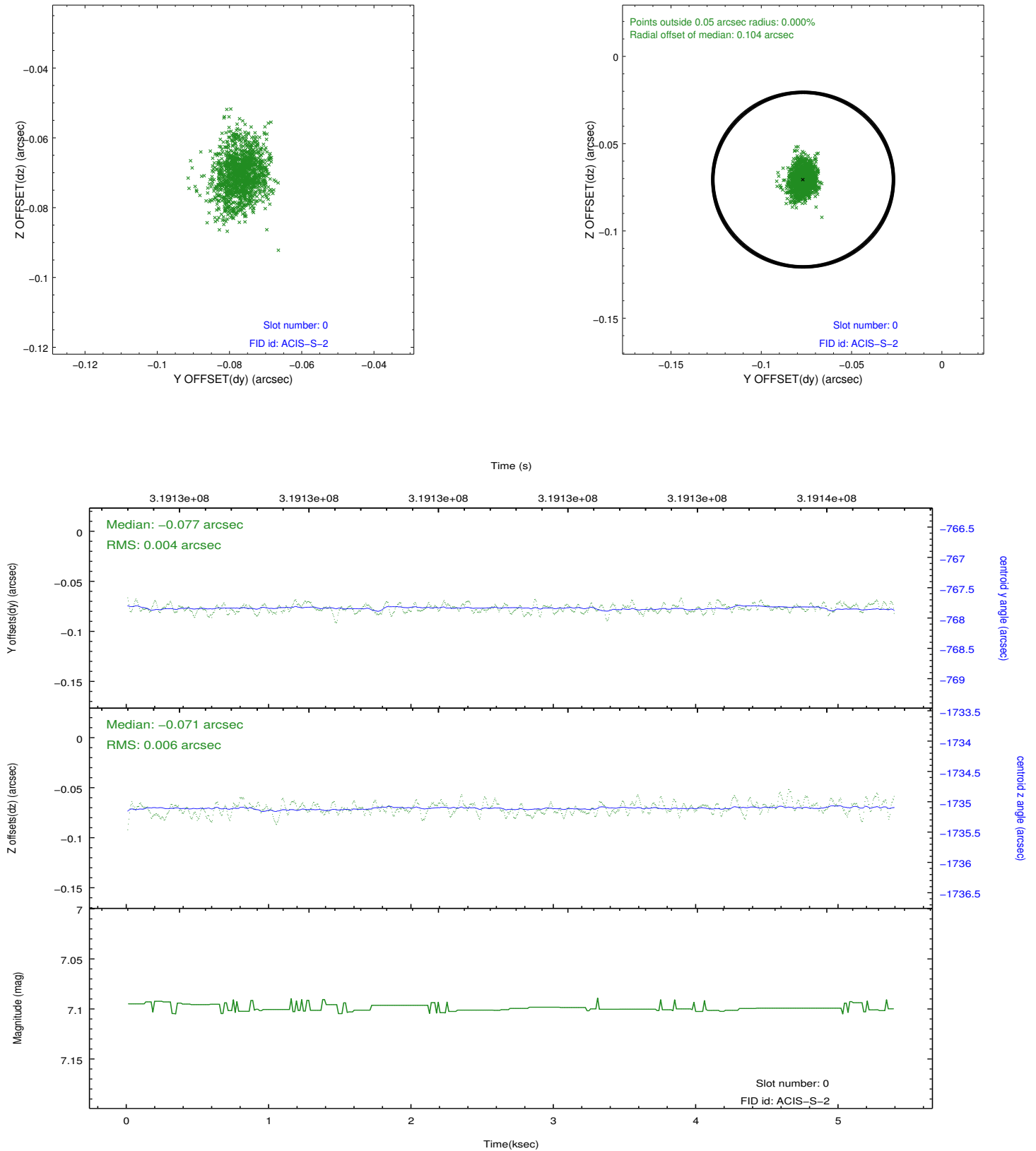


2.4.5 Slot 7

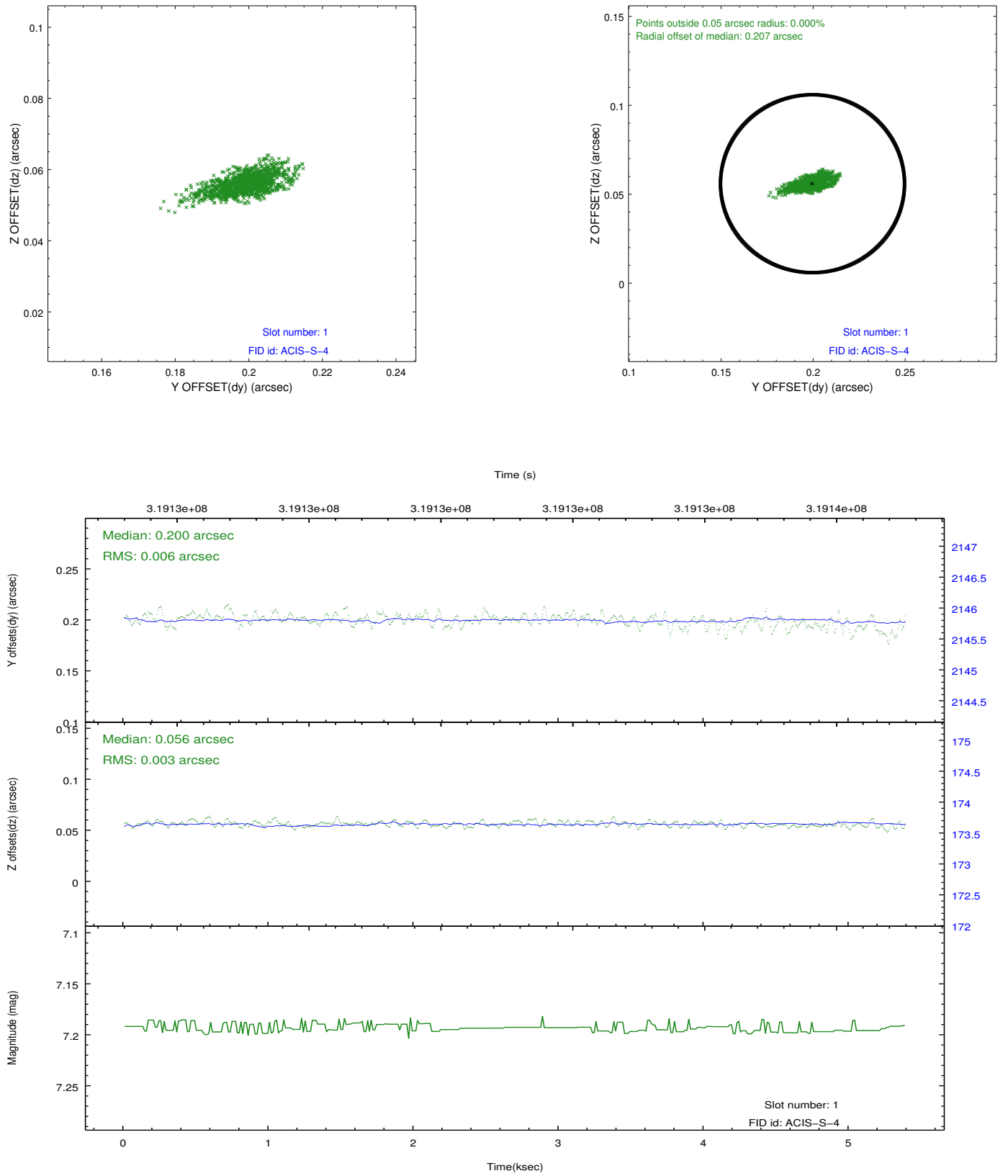


2.5 FID Slots

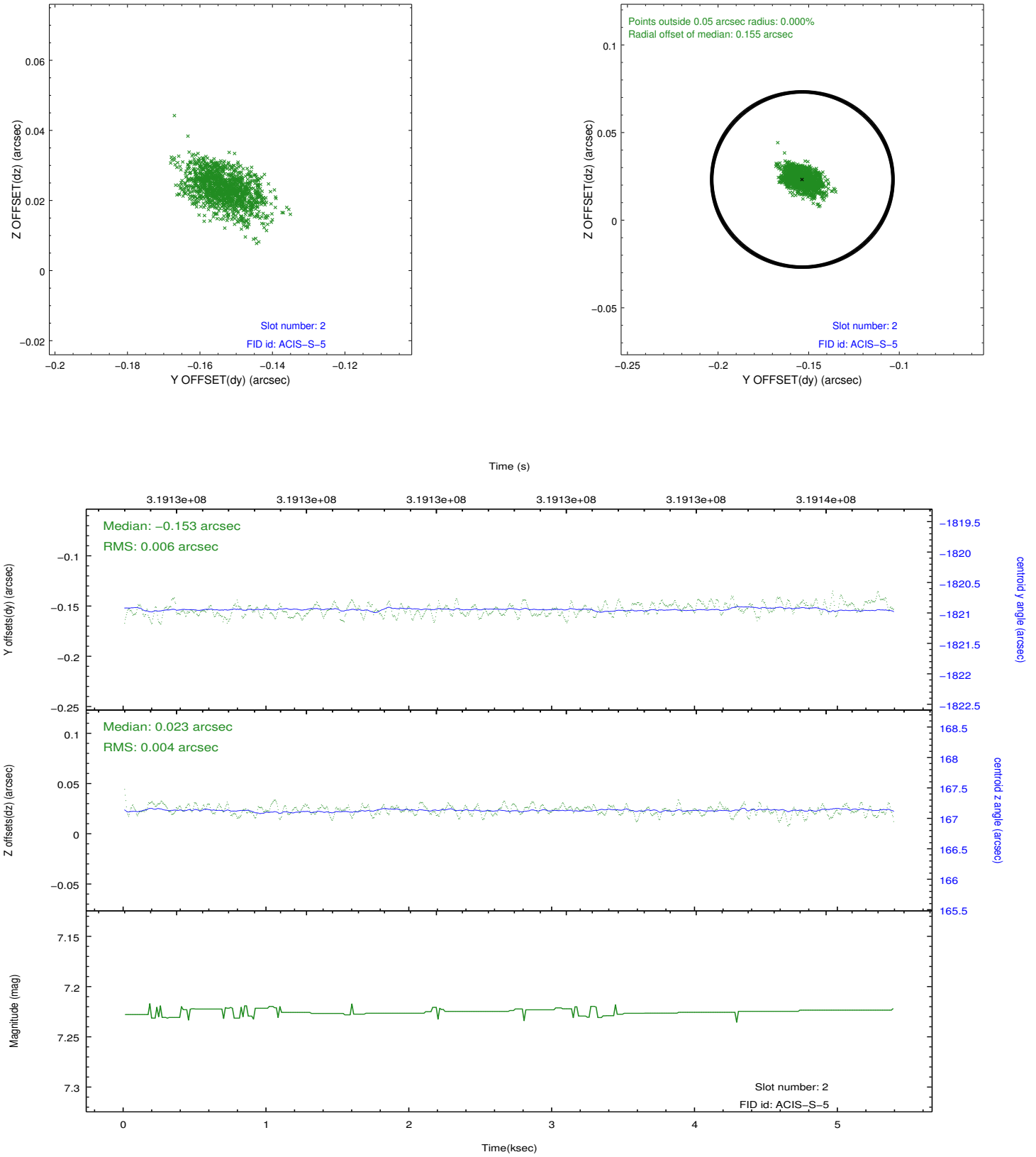
2.5.1 Slot 0



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)	2012.05.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.95359998

A.2 Comments

Joint proposal: Spitzer