

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8067 - L2 Version 2
Chandra X-Ray Center

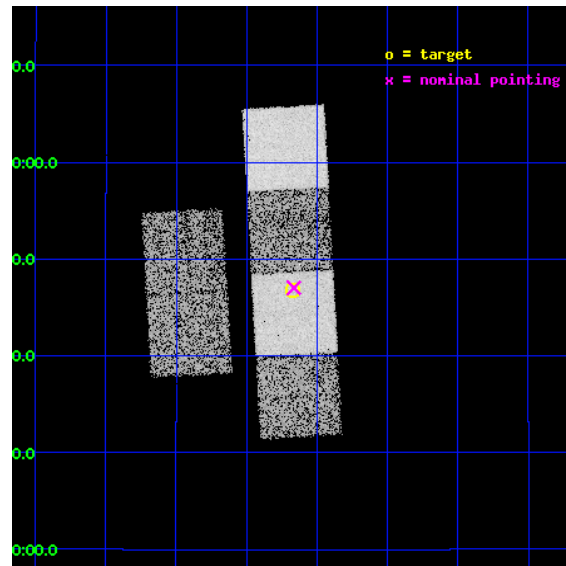
L2 Processing Date : May 10 2012

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1 Front

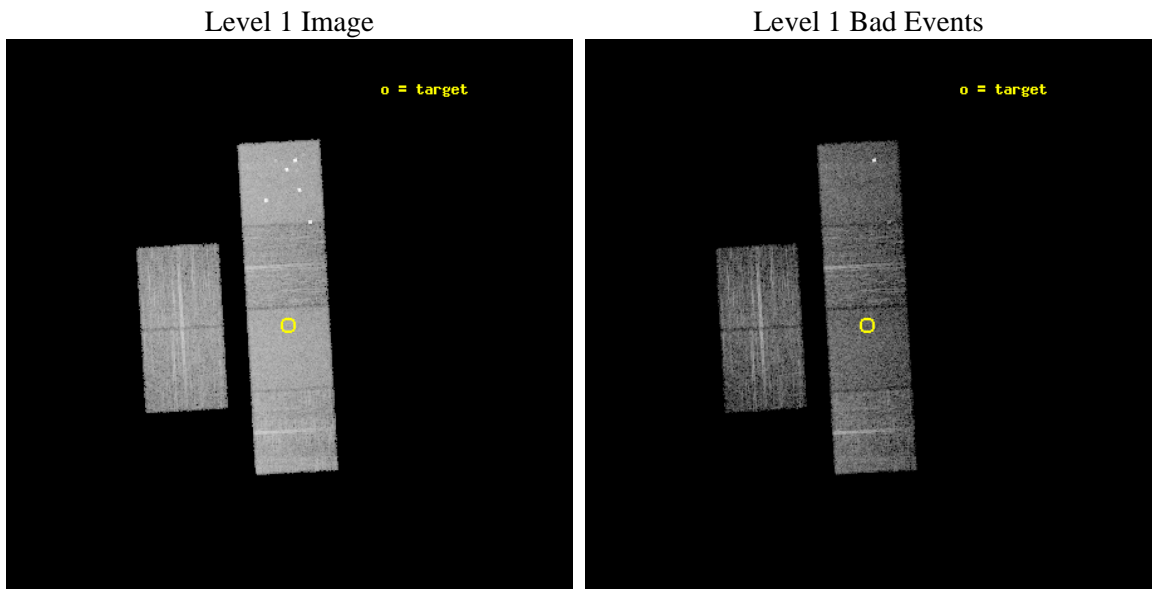
seq_num	900608	Sequence number
obs_id	8067	Observation id
title	The Duty Cycle of Supermassive Black Holes: X-raying Virgo	Proposa
observer	Prof Tommaso Treu	Principal investigator
object	1261	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.543333	Observer's specified target RA [deg]
dec_targ	10.779472	Observer's specified target Dec [deg]
ra_nom	187.54097011151	Nominal RA [deg]
dec_nom	10.783853601394	Nominal Dec [deg]
roll_nom	86.792469694467	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5157.1914737225	Sum of GTIs [s]
livetime	5091.8880099943	Livetime [s]
ontime2	5157.2325137258	Sum of GTIs [s]
ontime3	5157.0683636665	Sum of GTIs [s]
ontime5	5157.1504436731	Sum of GTIs [s]
ontime6	5157.1093937159	Sum of GTIs [s]
ontime7	5157.1914737225	Sum of GTIs [s]
ontime8	5153.7862737179	Sum of GTIs [s]
l2events	82820	Number of level 2 events



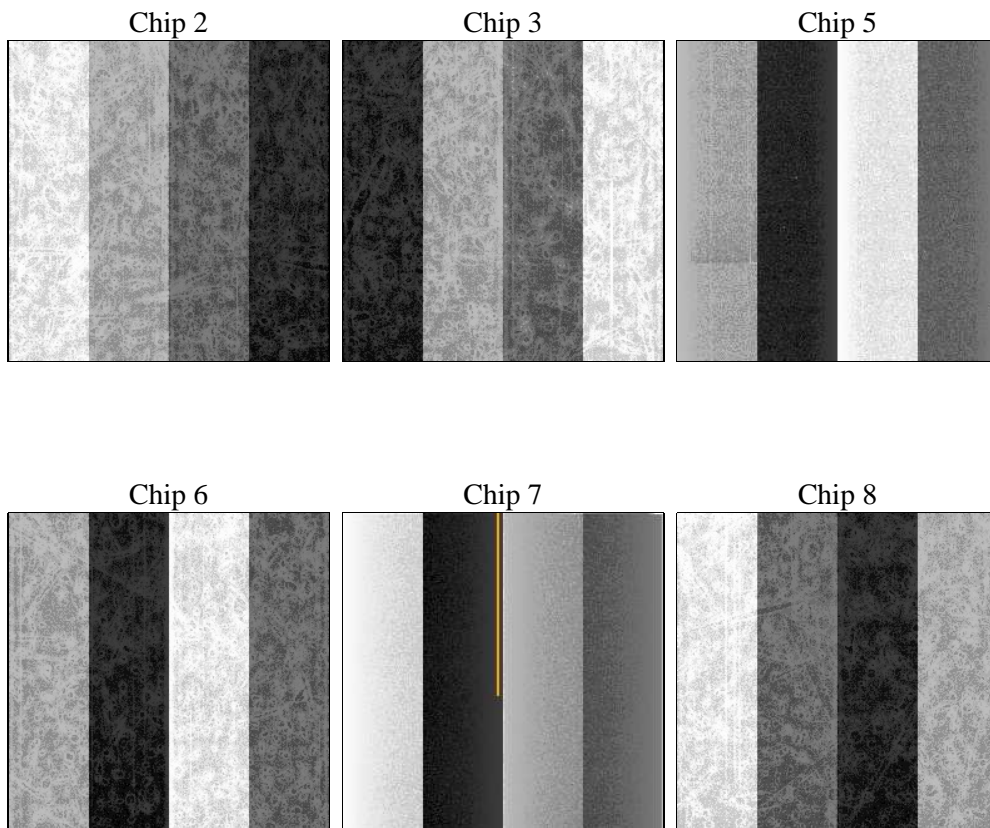
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	5400.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	5157.1914737225	Sum of GTIs [s]
caldbver	4.4.9	 	ontime2	5157.2325137258	Sum of GTIs [s]
date	2012-05-10T07:54:20	Date and time of file creation	ontime3	5157.0683636665	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	5157.1504436731	Sum of GTIs [s]
			ontime6	5157.1093937159	Sum of GTIs [s]
			ontime7	5157.1914737225	Sum of GTIs [s]
			ontime8	5153.7862737179	Sum of GTIs [s]
			l1events	367226	Number of level 1 events

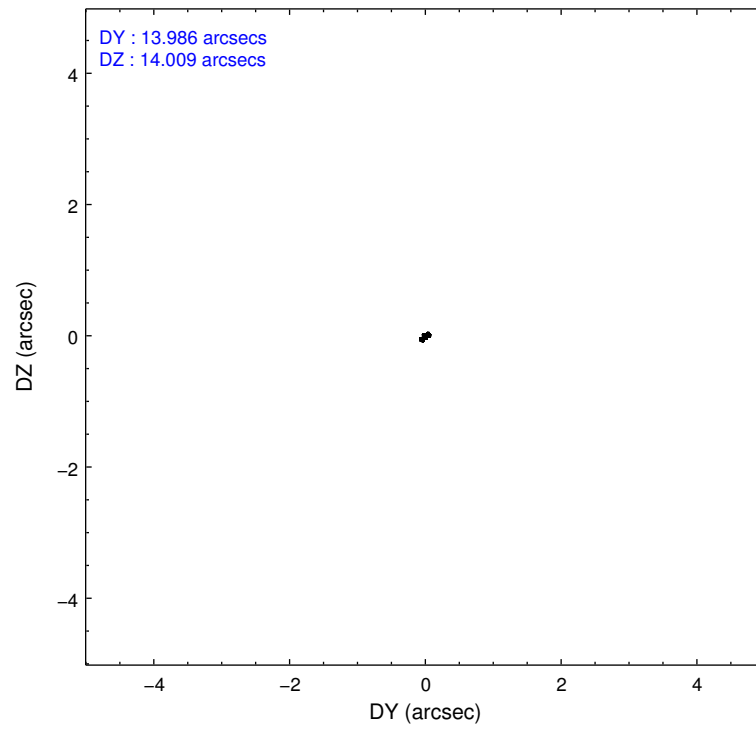
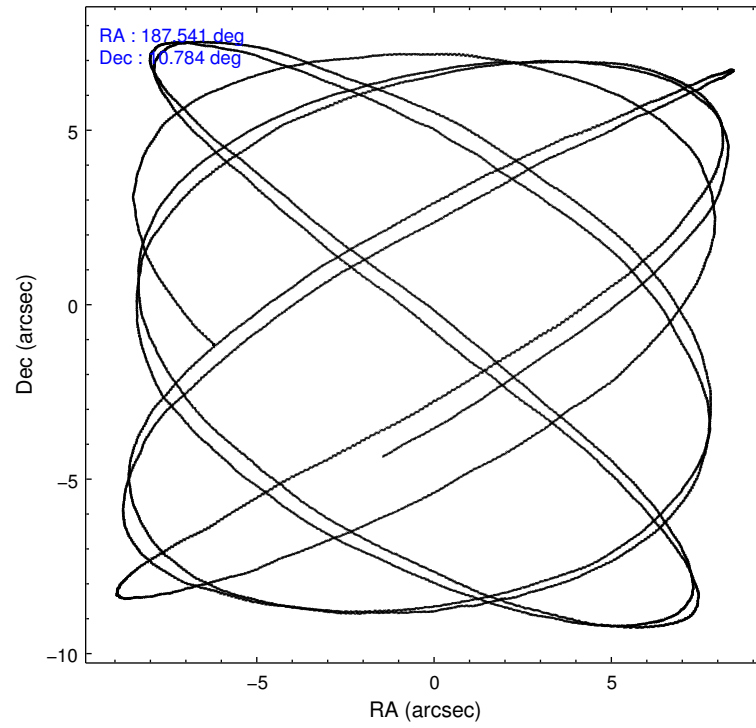
2.1.4 Events

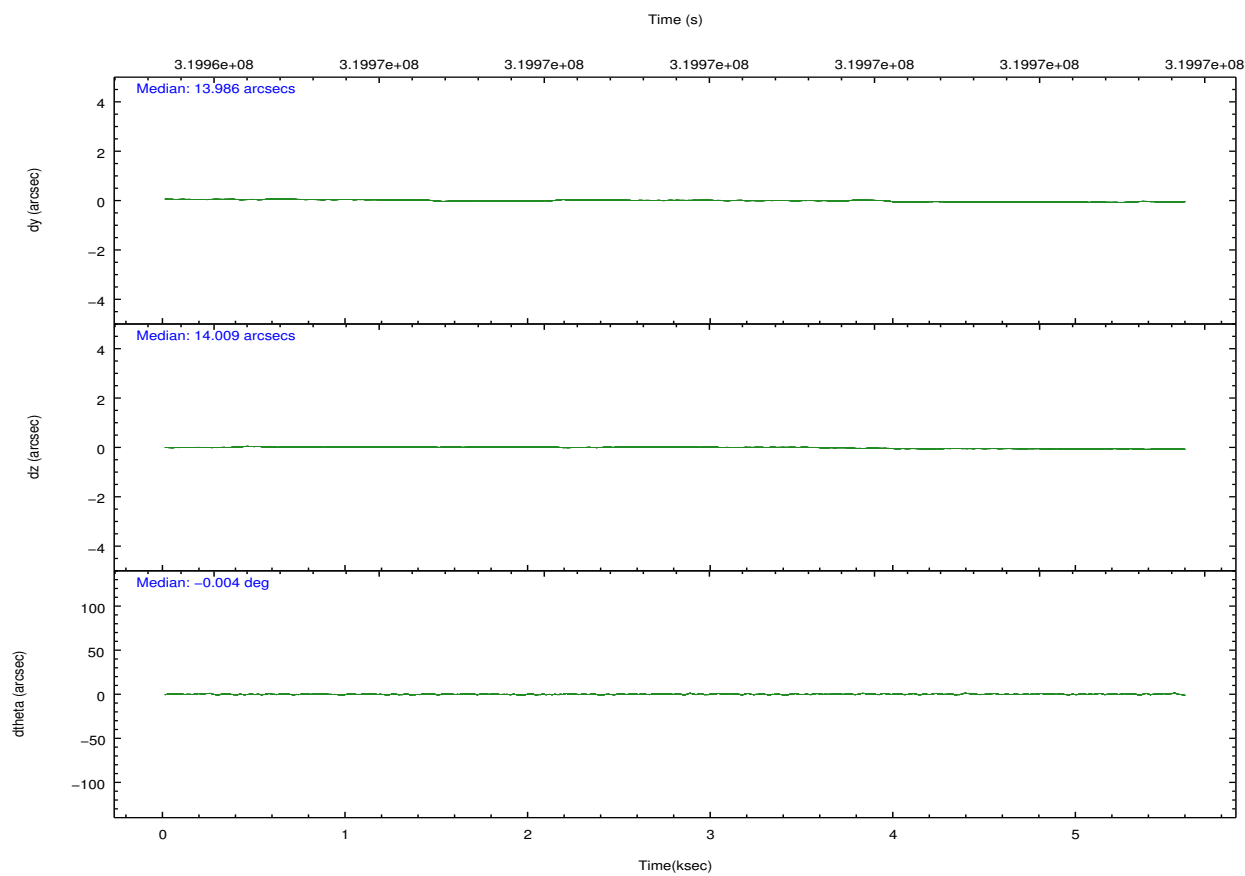
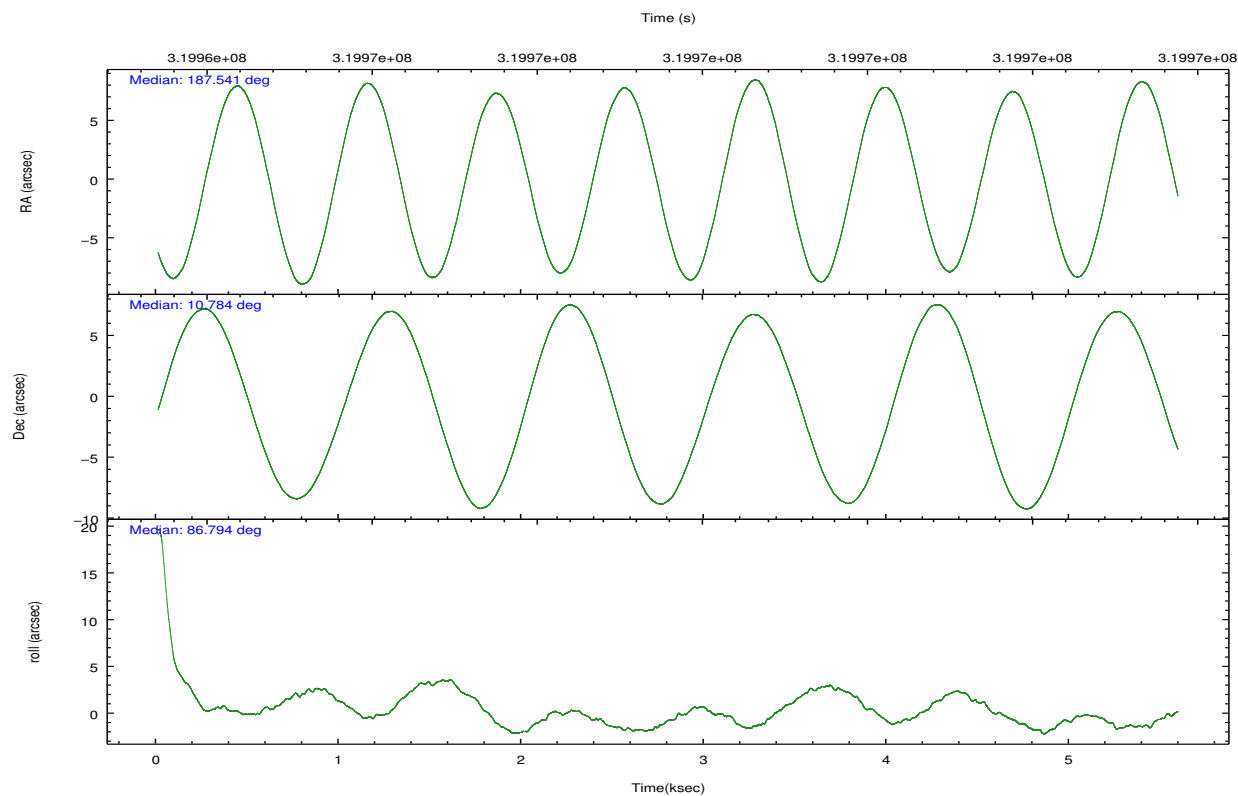
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	51606	47856	83777	49095	68920	65972	grade 0 events	2445	2757	6715	2482	2516	4411
rejected events	45752	41701	43331	42948	40373	52285		4%	5%	8%	5%	3%	6%
rejected %	88%	87%	51%	87%	58%	79%	grade 1 events	39	28	142	24	67	57
								0%	0%	0%	0%	0%	0%
							grade 2 events	1289	1254	11026	1365	5881	3122
								2%	2%	13%	2%	8%	4%
							grade 3 events	557	577	1203	594	2398	1261
								1%	1%	1%	1%	3%	1%
							grade 4 events	540	560	1104	543	2470	1204
								1%	1%	1%	1%	3%	1%
							grade 5 events	2032	2317	5220	2288	6321	3080
								3%	4%	6%	4%	9%	4%
							grade 6 events	1036	1018	20453	1172	15317	3708
								2%	2%	24%	2%	22%	5%
							grade 7 events	43668	39345	37914	40627	33950	49129
								84%	82%	45%	82%	49%	74%

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	187.553866	187.54097011151	CCD I2 on	O1	Y
[deg] Pointing Dec	10.759502	10.78385360139439	CCD I3 on	O2	Y
[deg] Pointing Roll	86.633427	86.79246969446706	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)	319965192.184000	319964701.99279	CCD S5 on	N	N
Observation start date	2008-02-21T07:12:07	2008-02-21T07:05:01	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	319970592.184000	319970755.64308	On-chip summing requested	N	N
Observation end date	2008-02-21T08:42:07	2008-02-21T08:45:55	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



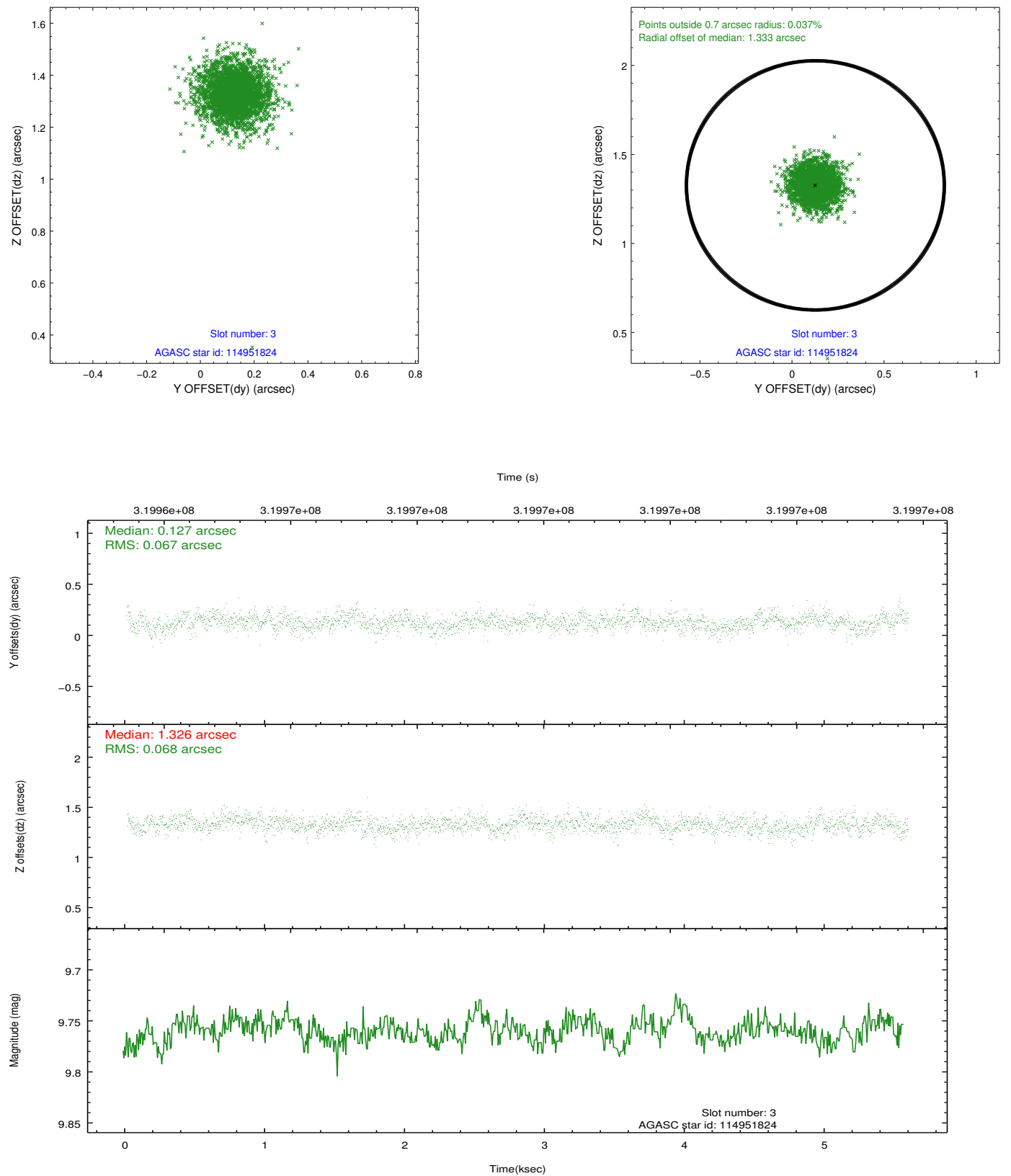


Slot Statistics

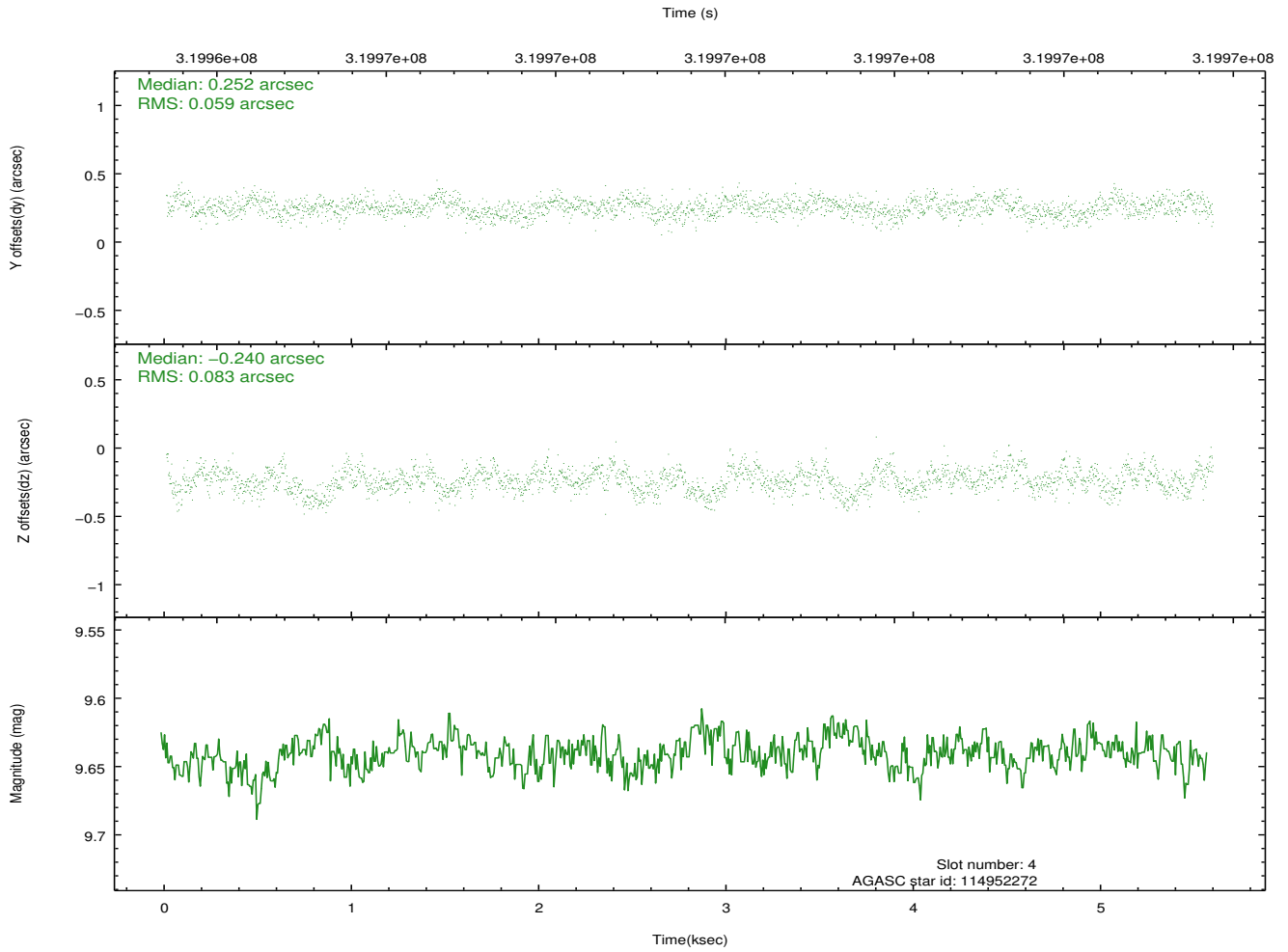
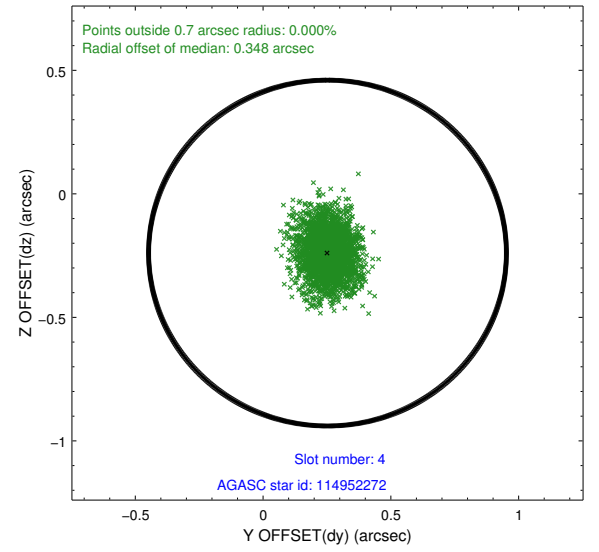
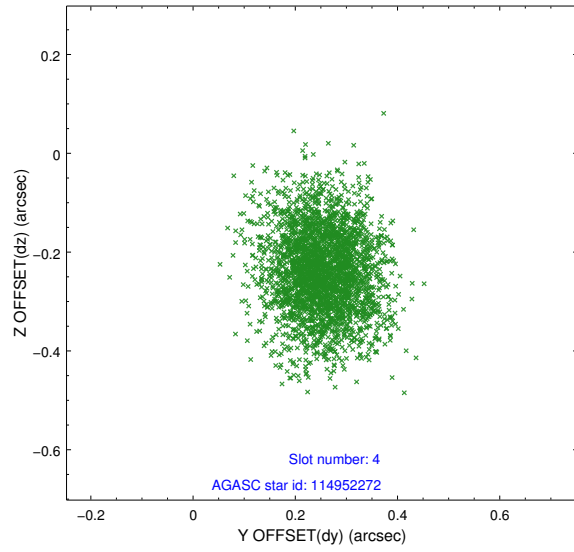
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1363	-0.063	-0.060	0.007	0.011	0.000000	0.000000	-766.98	-1735.36
1	FID	ACIS-S-4	7.20	1363	0.196	0.046	0.007	0.011	0.000000	0.000000	2146.06	172.12
2	FID	ACIS-S-5	7.23	1363	-0.164	0.022	0.006	0.011	0.000000	0.000000	-1818.55	166.99
3	GUIDE	114951824	9.76	2719	0.127	1.326	0.099	0.163	187.810084	10.327889	-1497.47	-995.34
4	GUIDE	114952272	9.64	2721	0.252	-0.240	0.107	0.181	188.040724	10.470216	-937.47	-1781.71
5	GUIDE	114952472	9.17	2725	-0.376	-0.268	0.081	0.130	186.965165	11.317874	1885.24	2190.93
6	GUIDE	114953680	8.57	2724	0.236	-0.481	0.059	0.095	187.904378	10.267361	-1695.15	-1341.27
7	GUIDE	114957272	8.84	2725	-0.237	-0.336	0.068	0.113	187.367706	11.138889	1324.14	736.47

2.4 Star Slots

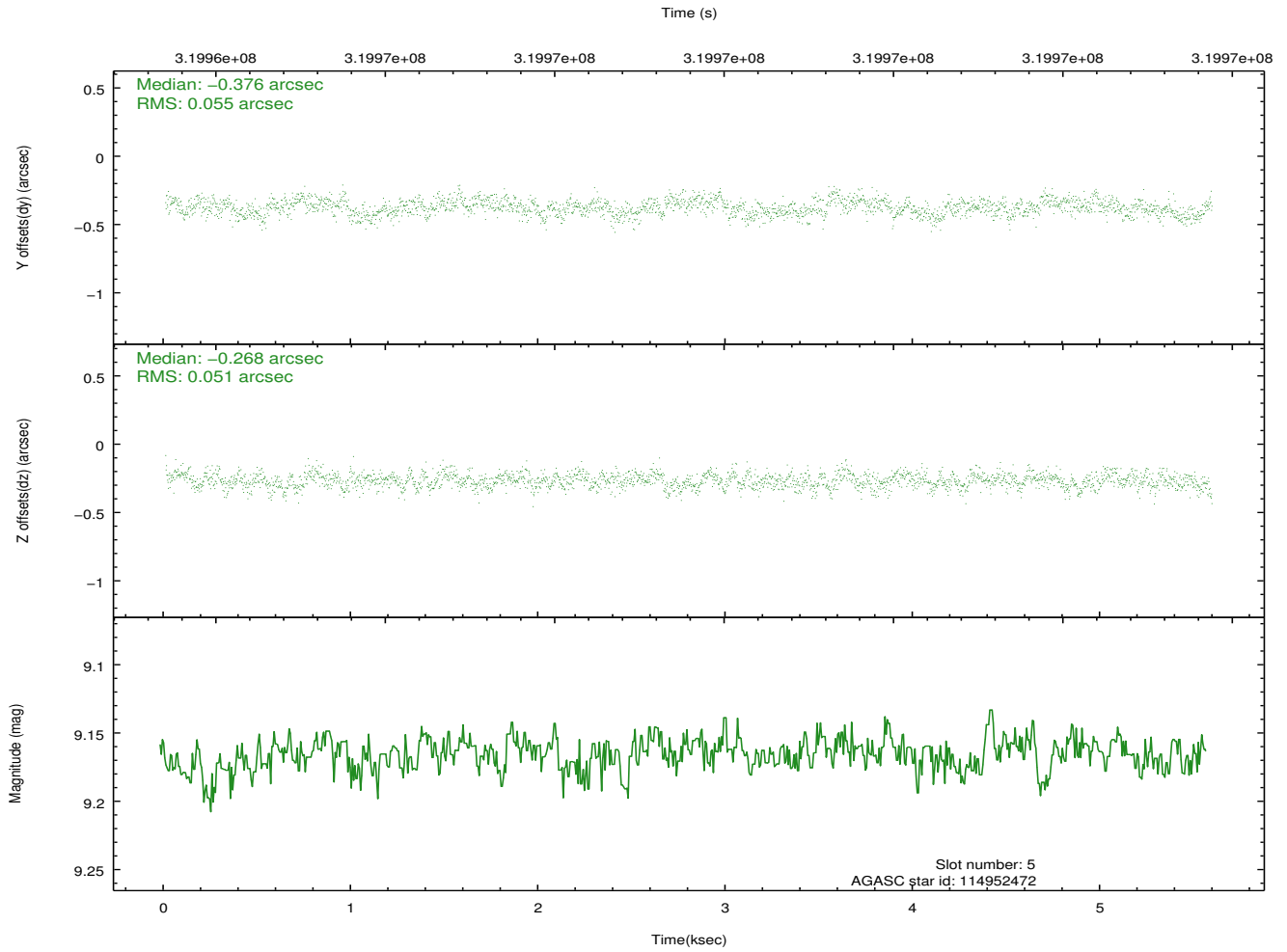
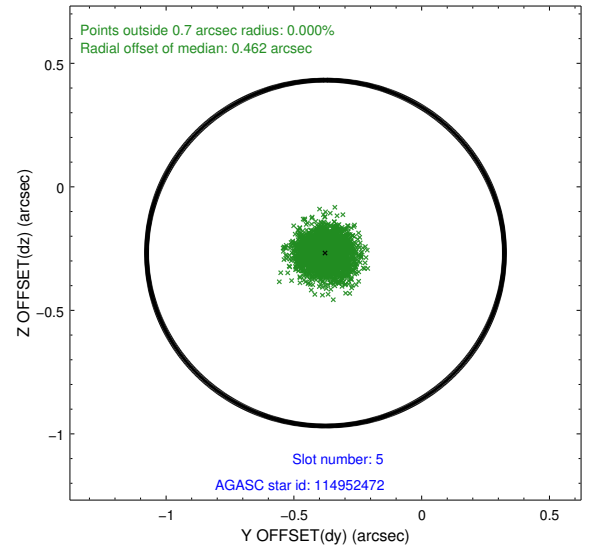
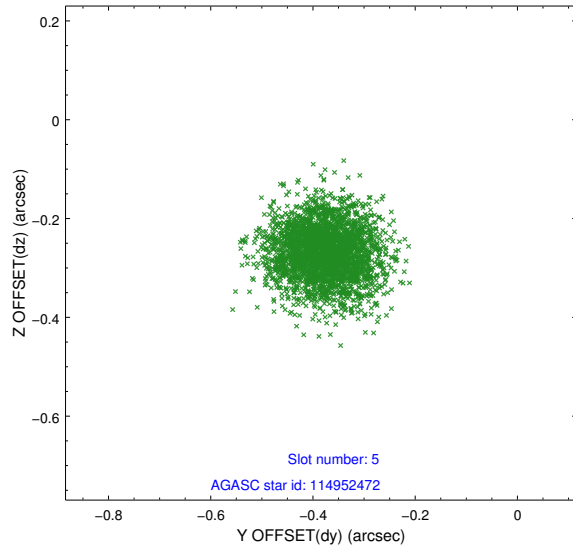
2.4.1 Slot 3



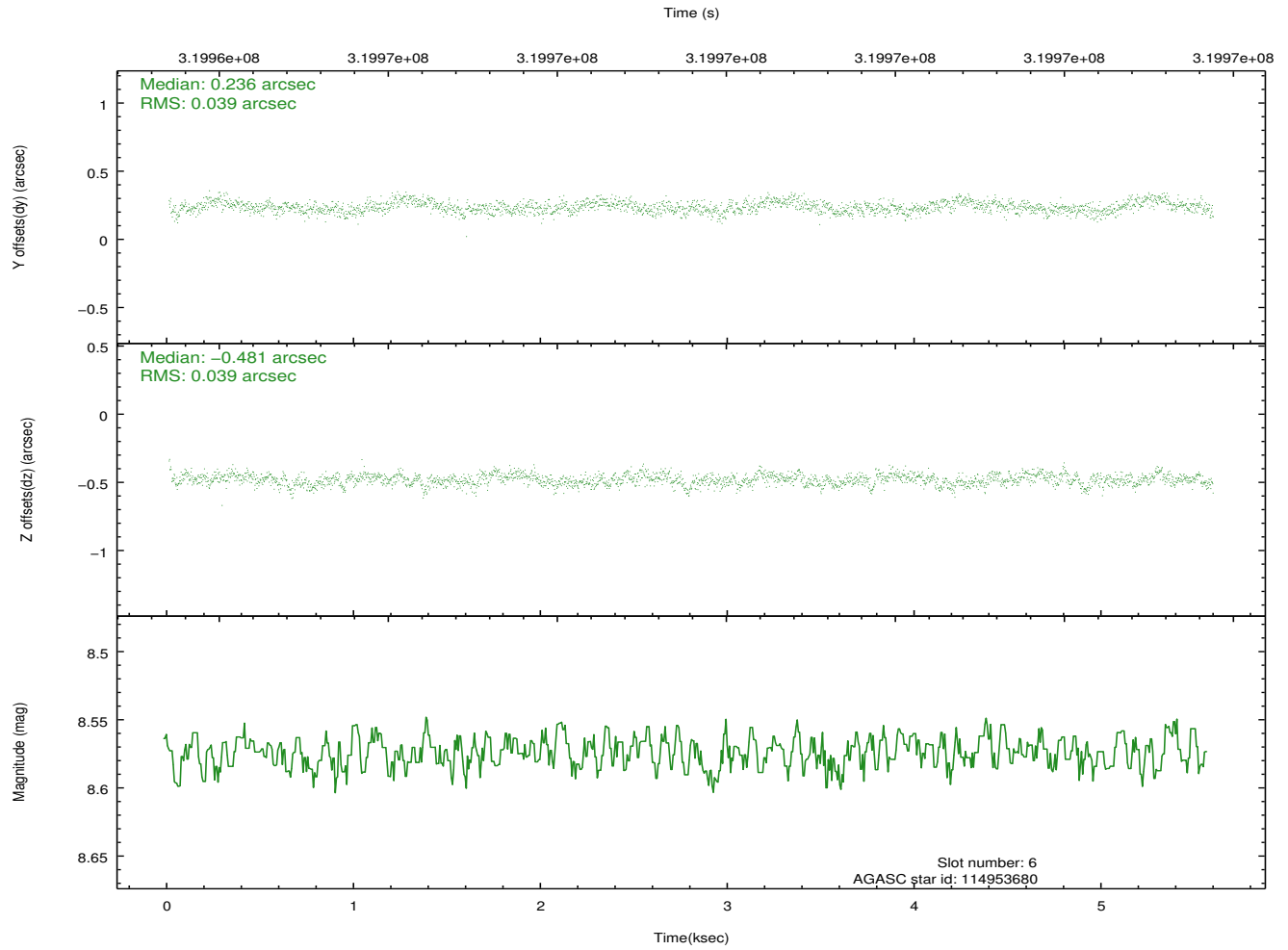
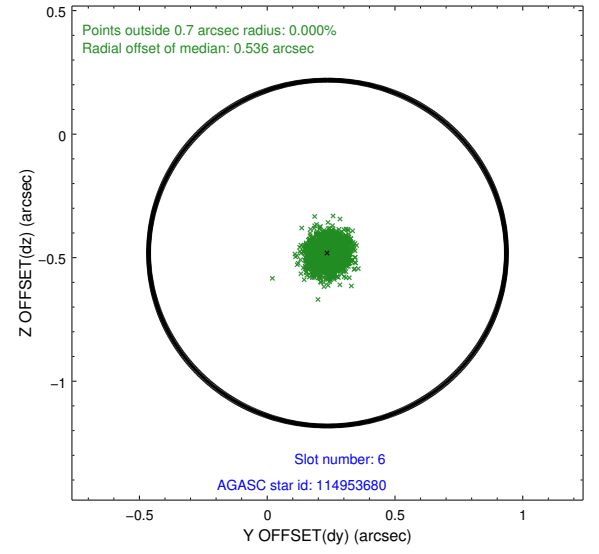
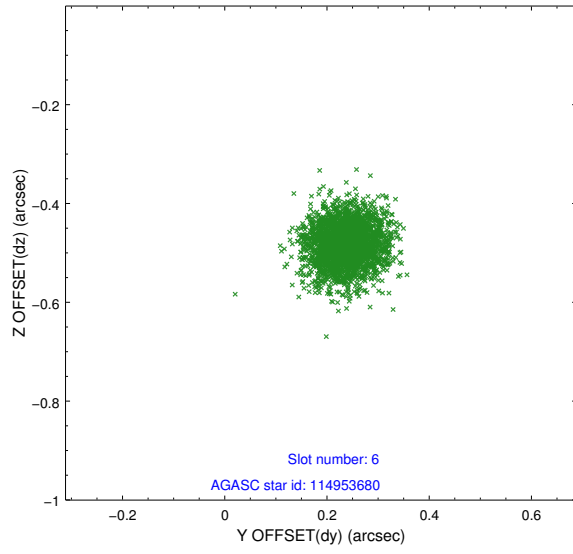
2.4.2 Slot 4



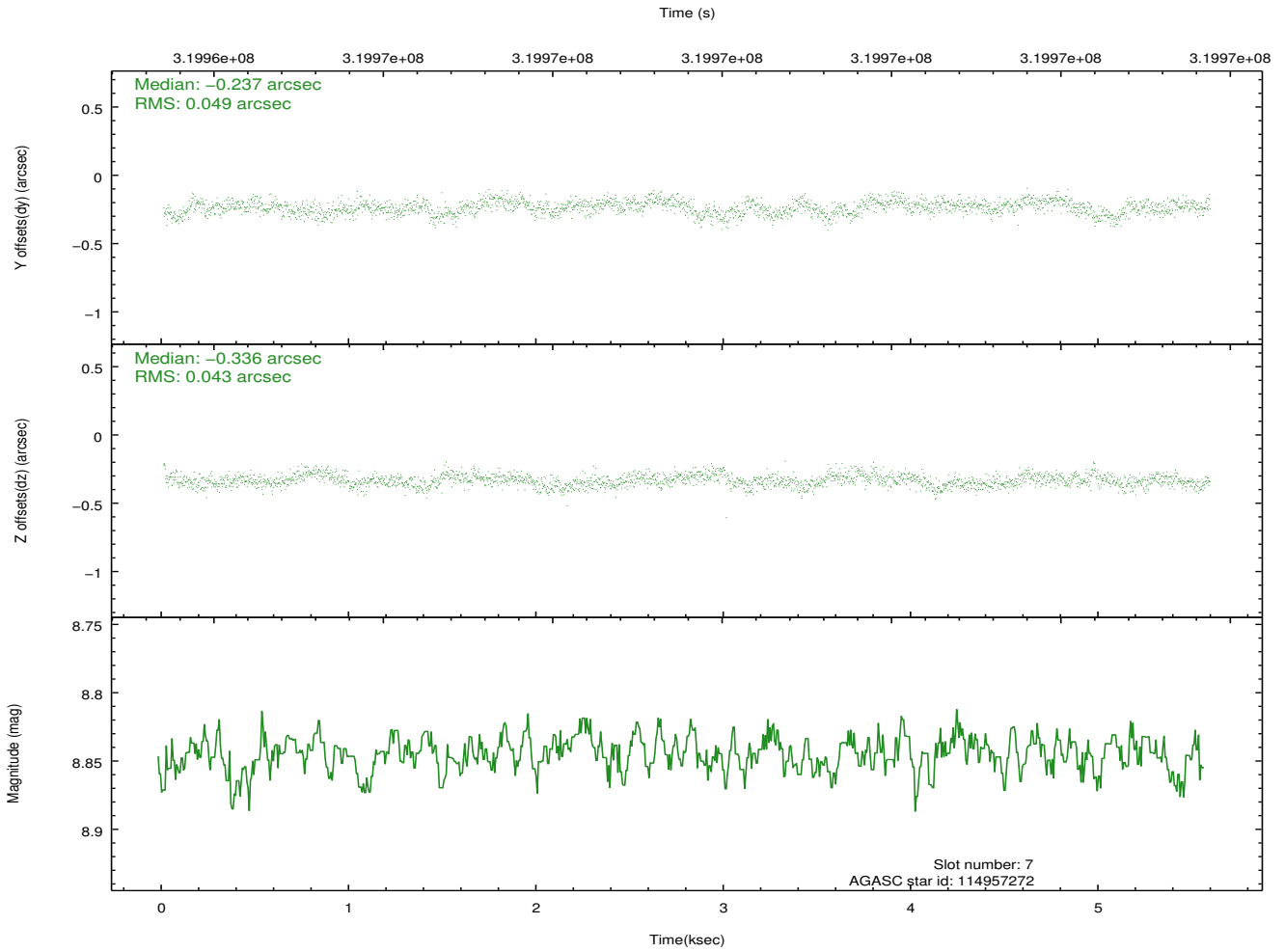
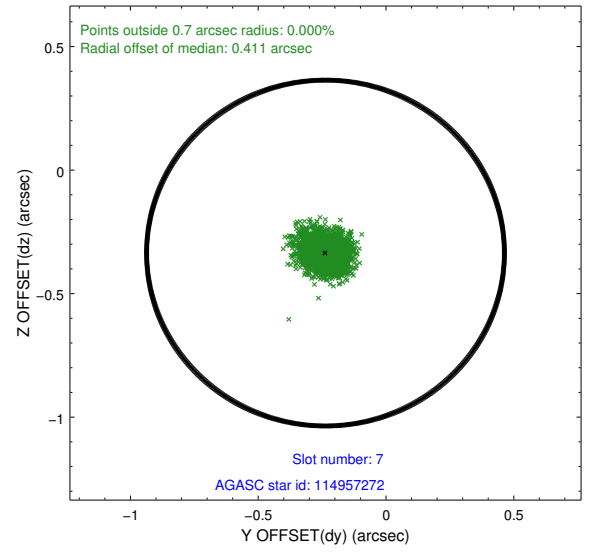
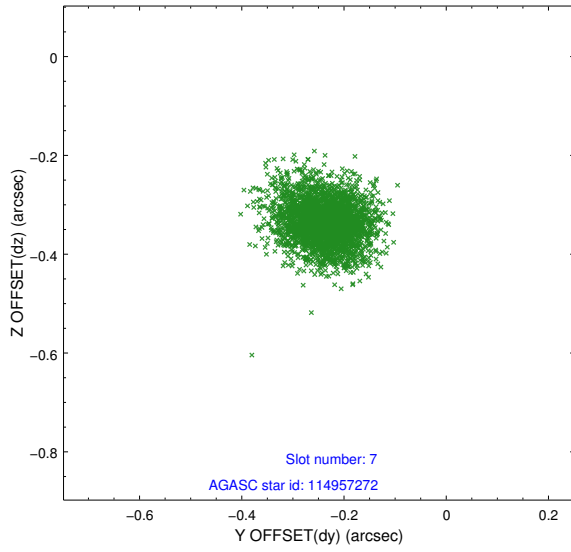
2.4.3 Slot 5



2.4.4 Slot 6

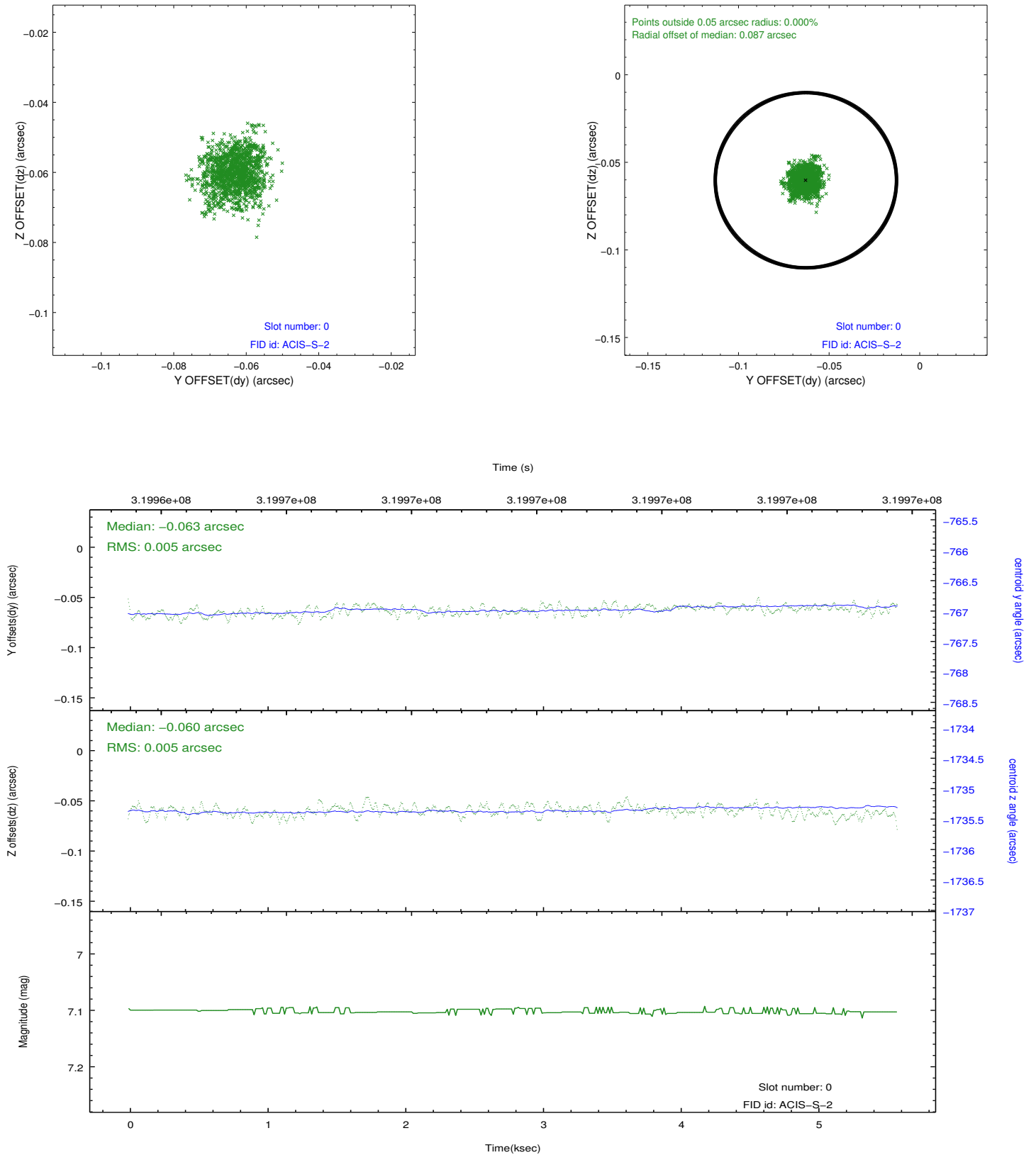


2.4.5 Slot 7

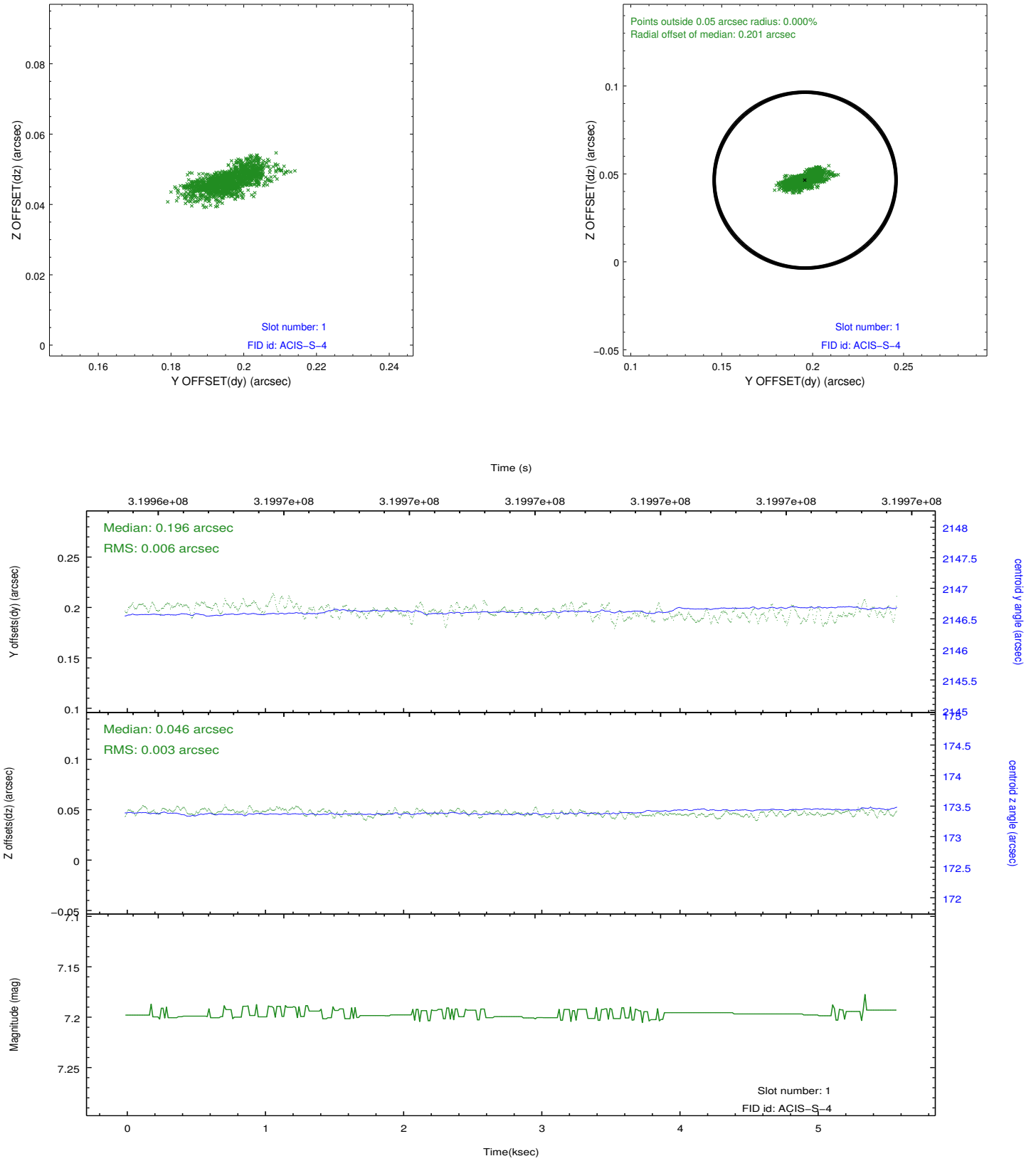


2.5 FID Slots

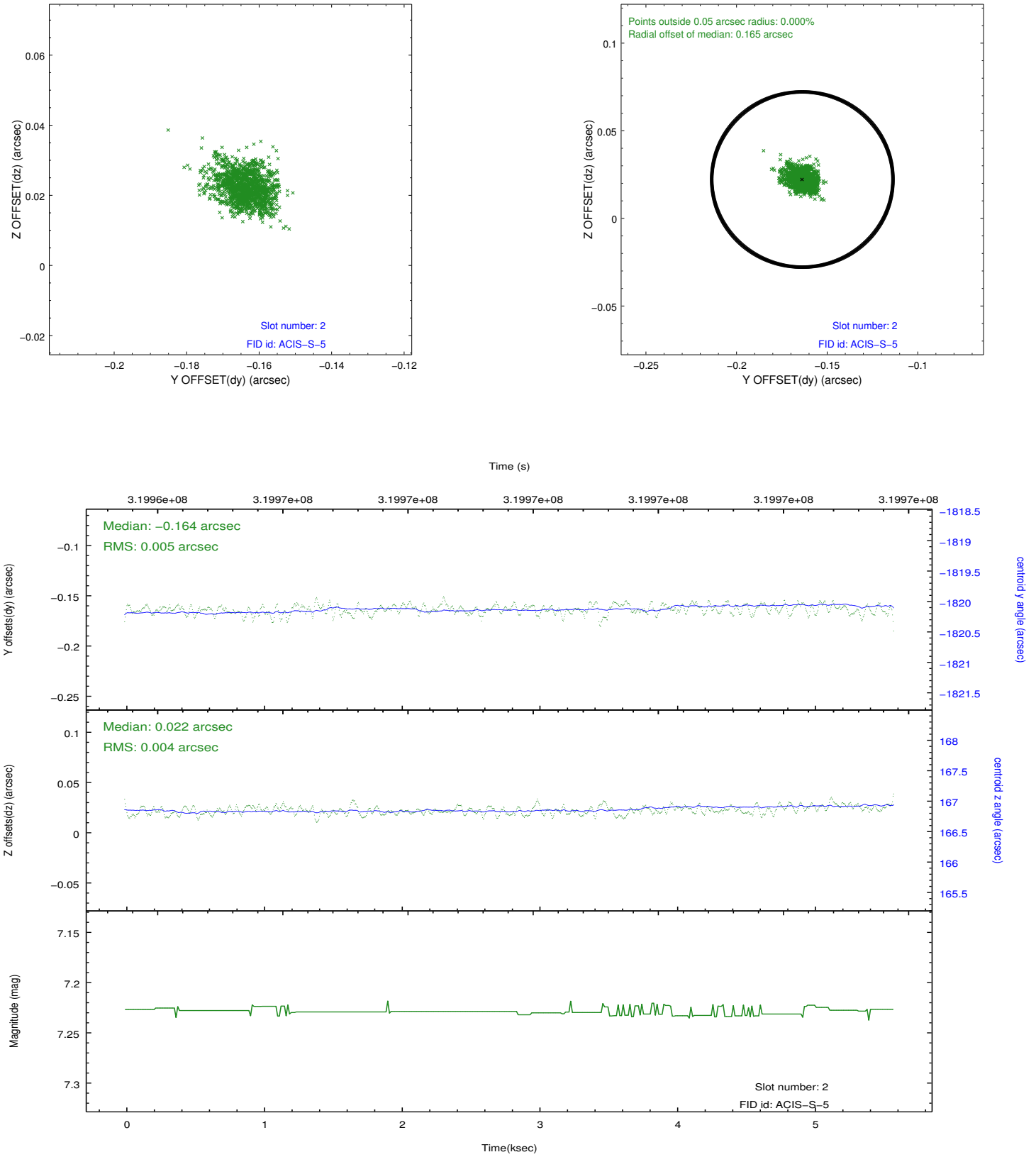
2.5.1 Slot 0



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)	2012.05.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.15839998

A.2 Comments

Joint Proposal: Spitzer