

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8053 - L2 Version 2
Chandra X-Ray Center

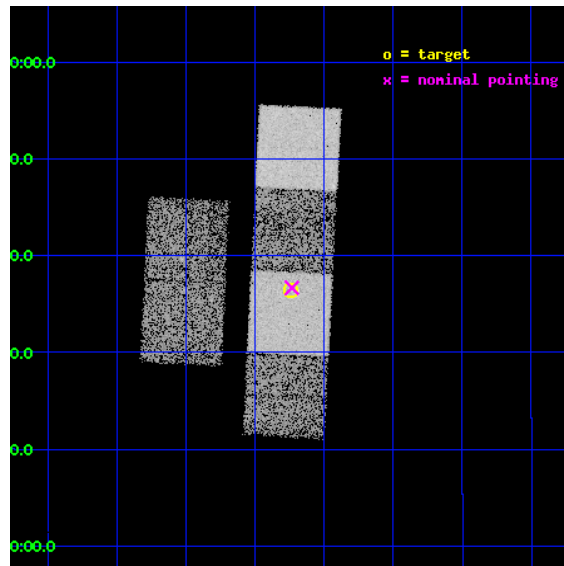
L2 Processing Date : May 9 2012

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1 Front

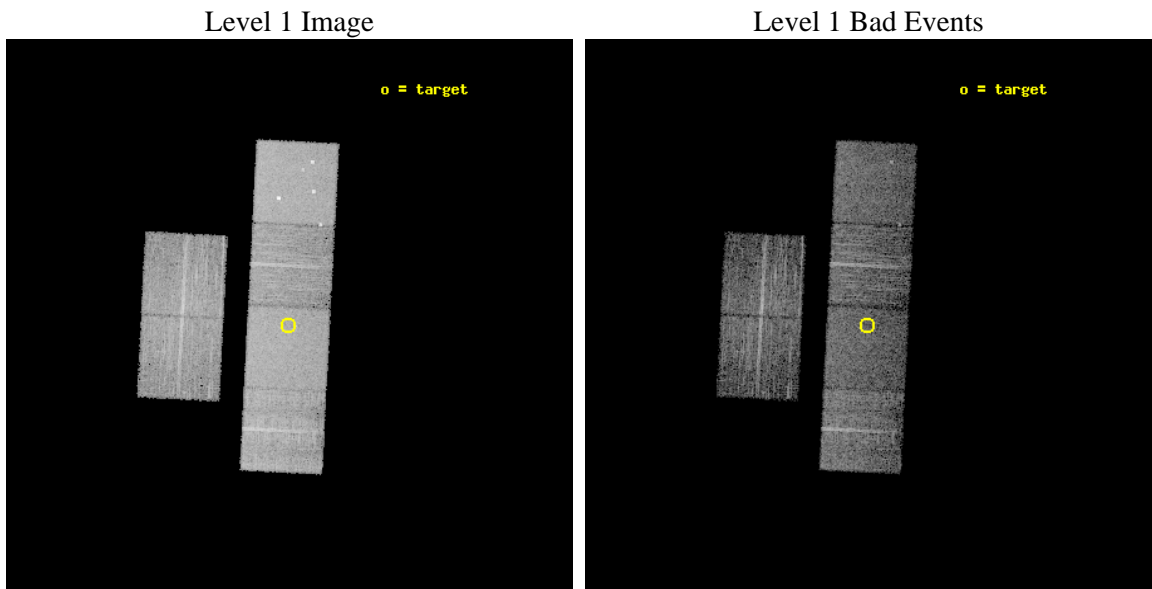
seq_num	900594	Sequence number
obs_id	8053	Observation id
title	The Duty Cycle of Supermassive Black Holes: X-raying Virgo	Proposa
observer	Prof Tommaso Treu	Principal investigator
object	784	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	186.31125	Observer's specified target RA [deg]
dec_targ	15.607556	Observer's specified target Dec [deg]
ra_nom	186.3083368471	Nominal RA [deg]
dec_nom	15.611428764116	Nominal Dec [deg]
roll_nom	92.938495923737	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5157.4214944839	Sum of GTIs [s]
livetime	5092.1151180944	Livetime [s]
ontime2	5157.4625344872	Sum of GTIs [s]
ontime3	5157.298374474	Sum of GTIs [s]
ontime5	5157.3804544806	Sum of GTIs [s]
ontime6	5157.3394144773	Sum of GTIs [s]
ontime7	5157.4214944839	Sum of GTIs [s]
ontime8	5154.0162646174	Sum of GTIs [s]
l2events	83065	Number of level 2 events



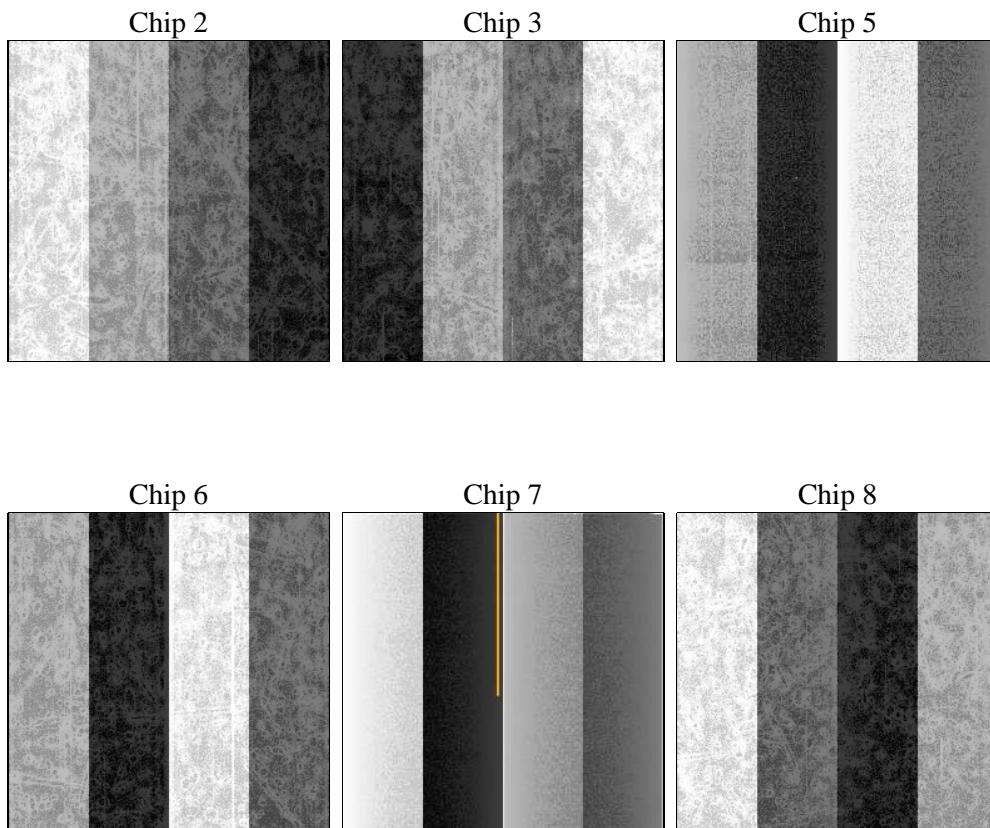
2 OBI

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	5157.4214944839	Sum of GTIs [s]
caldsver	4.4.9	 	ontime2	5157.4625344872	Sum of GTIs [s]
date	2012-05-09T19:27:04	Date and time of file creation	ontime3	5157.298374474	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	5157.3804544806	Sum of GTIs [s]
			ontime6	5157.3394144773	Sum of GTIs [s]
			ontime7	5157.4214944839	Sum of GTIs [s]
			ontime8	5154.0162646174	Sum of GTIs [s]
			l1events	361444	Number of level 1 events

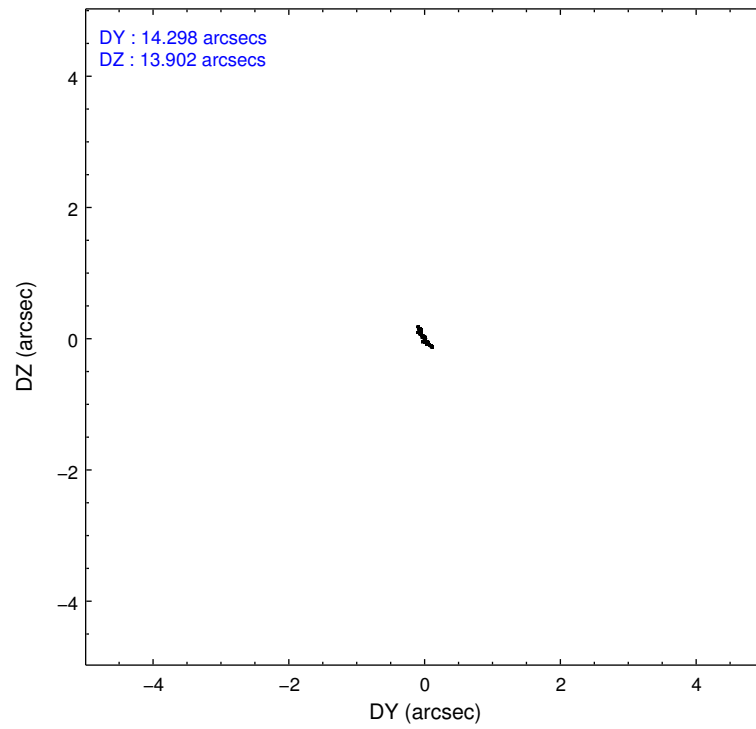
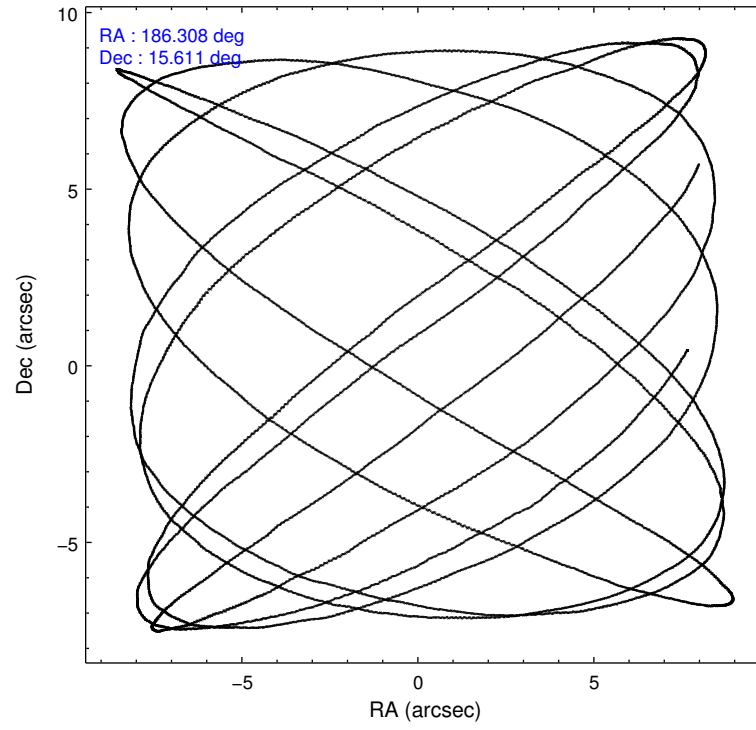
2.1.4 Events

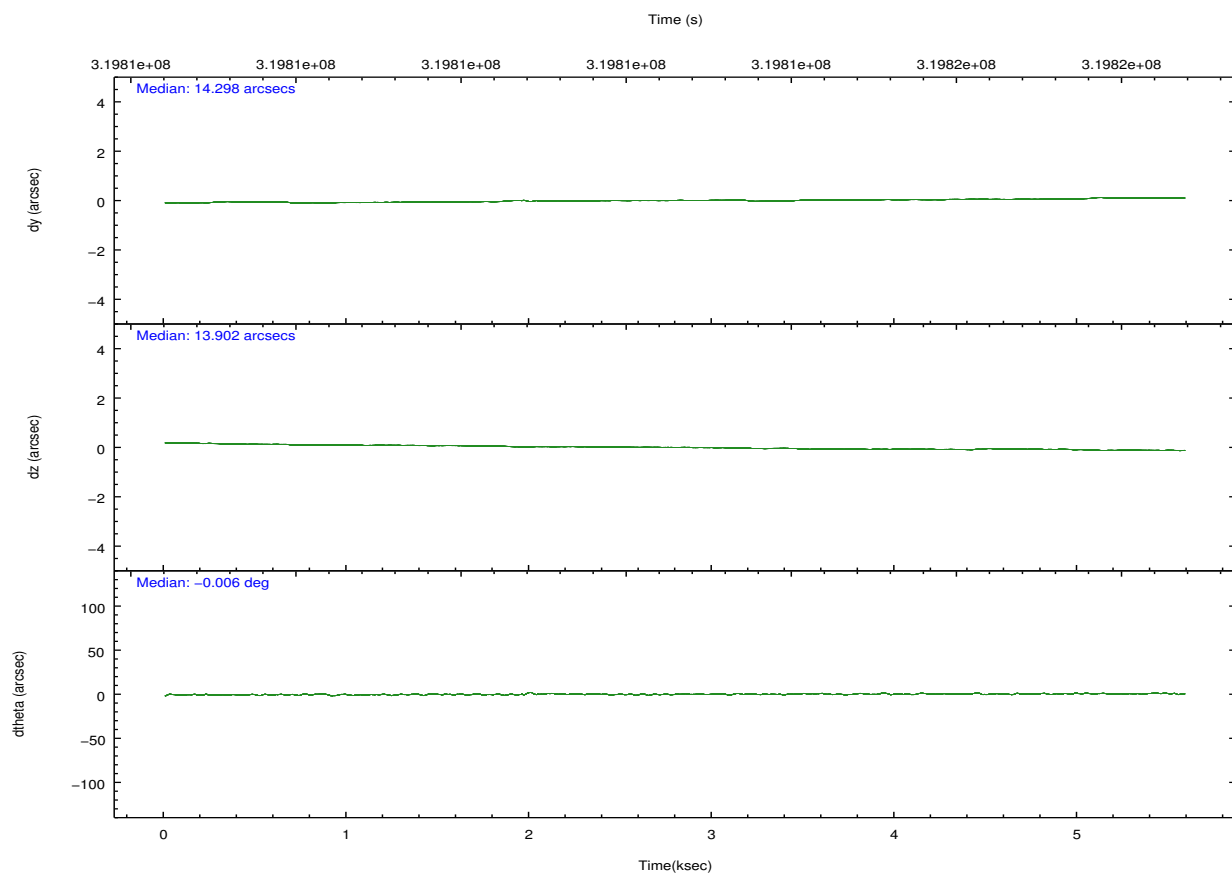
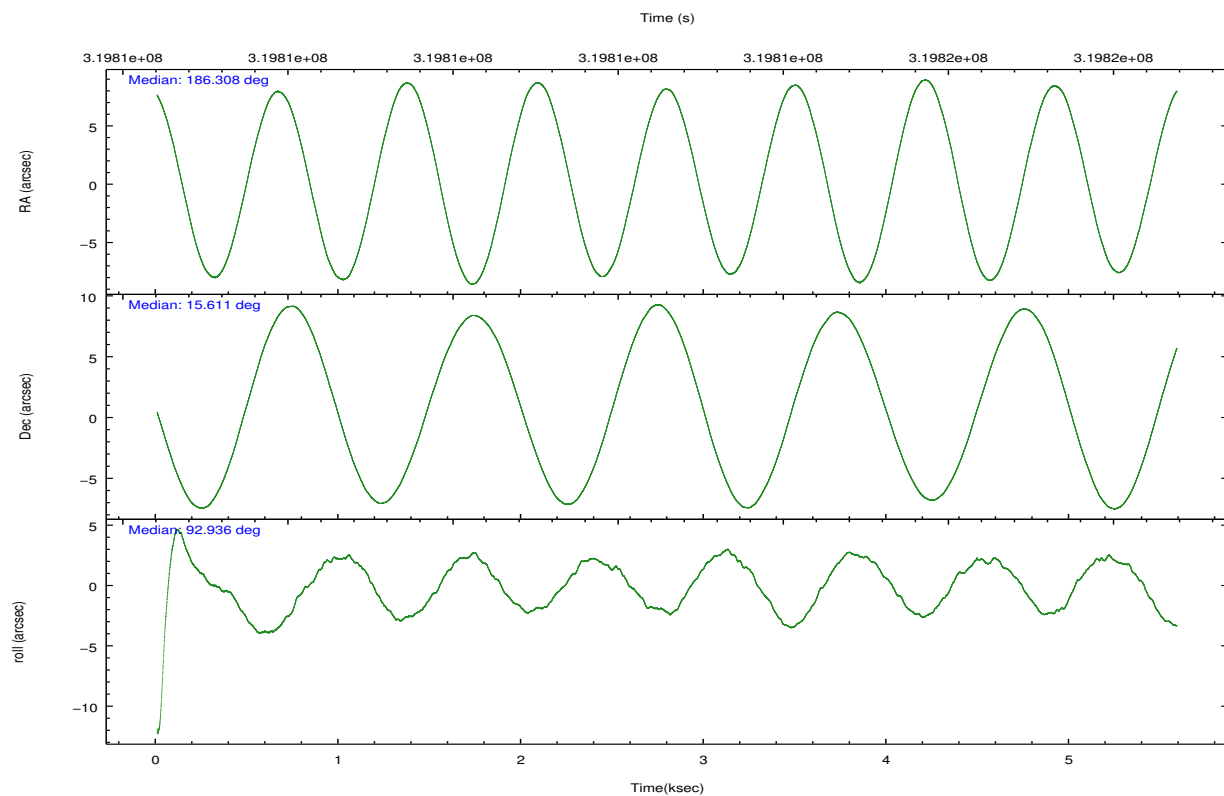
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	50193	46867	78644	49991	68472	67277	grade 0 events	2520	2773	4993	2384	2566	4600
rejected events	44264	40836	41066	43914	39652	52397		5%	5%	6%	4%	3%	6%
rejected %	88%	87%	52%	87%	57%	77%	grade 1 events	40	31	157	20	71	70
								0%	0%	0%	0%	0%	0%
							grade 2 events	1295	1160	11210	1391	5932	3380
								2%	2%	14%	2%	8%	5%
							grade 3 events	540	534	1314	515	2365	1475
								1%	1%	1%	1%	3%	2%
							grade 4 events	528	539	1261	565	2506	1366
								1%	1%	1%	1%	3%	2%
							grade 5 events	2064	2291	5525	2384	6495	3072
								4%	4%	7%	4%	9%	4%
							grade 6 events	1049	1030	18861	1234	15513	4063
								2%	2%	23%	2%	22%	6%
							grade 7 events	42157	38509	35323	41498	33024	49251
								83%	82%	44%	83%	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	186.324145	186.3083368471006	CCD I2 on	O1	Y
[deg] Pointing Dec	15.588802	15.61142876411594	CCD I3 on	O2	Y
[deg] Pointing Roll	92.777606	92.93849592373671	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	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	O4	Y
[s] Observation start time (MET)	319810689.184000	319810244.22279	CCD S5 on	N	N
Observation start date	2008-02-19T12:17:04	2008-02-19T12:10:44	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	319816089.184000	319816384.99809	On-chip summing requested	N	N
Observation end date	2008-02-19T13:47:04	2008-02-19T13:53:04	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



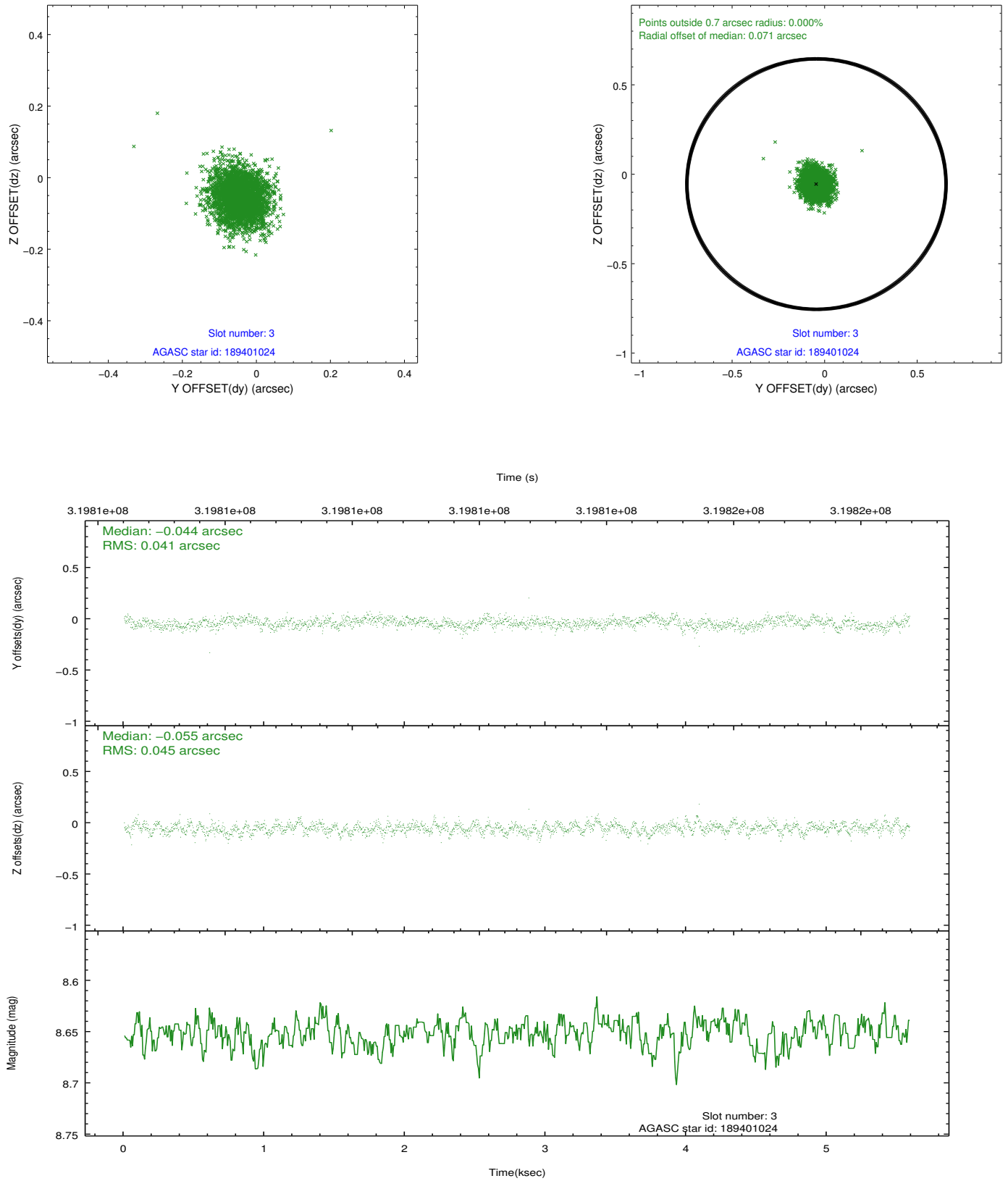


Slot Statistics

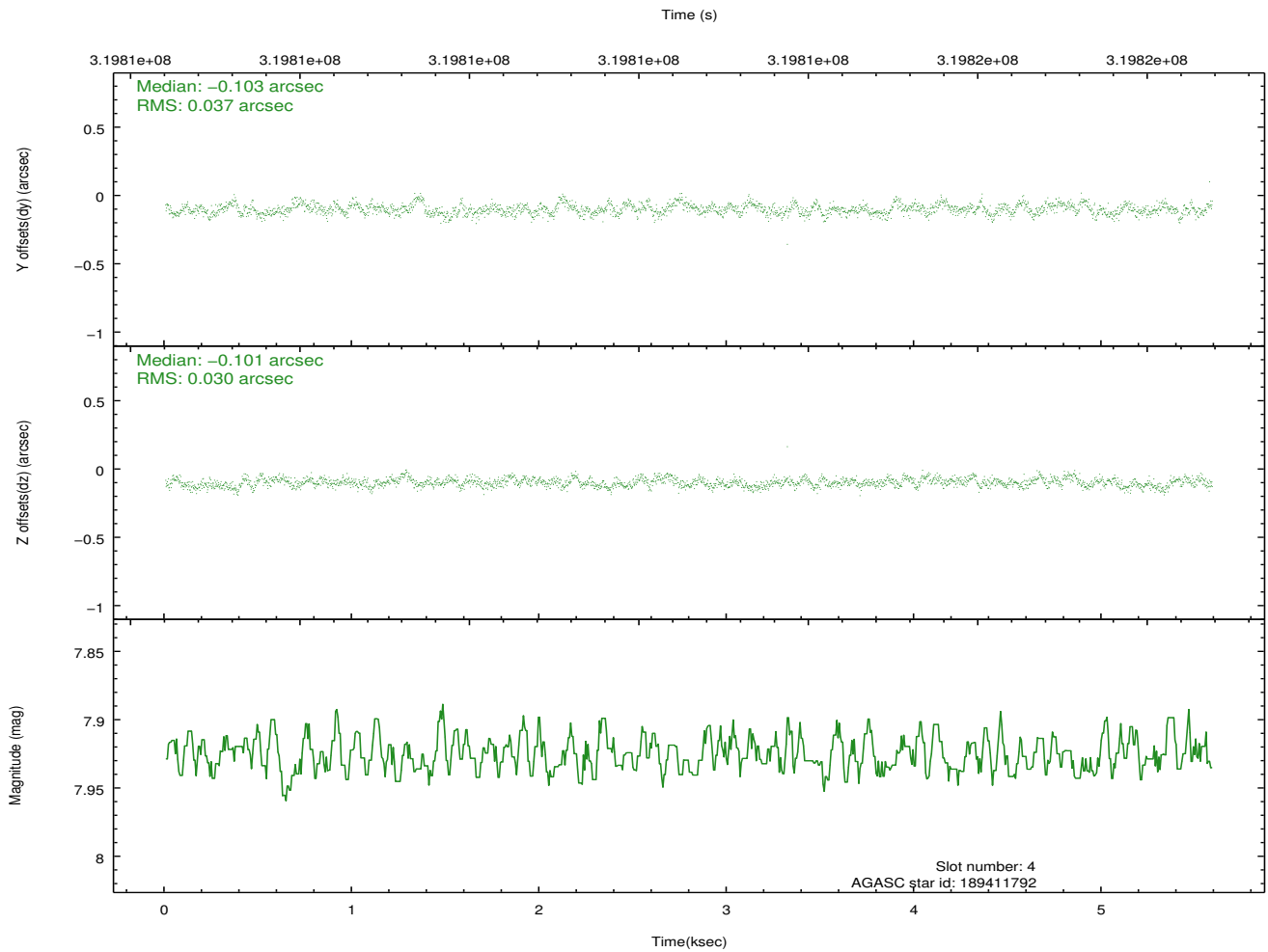
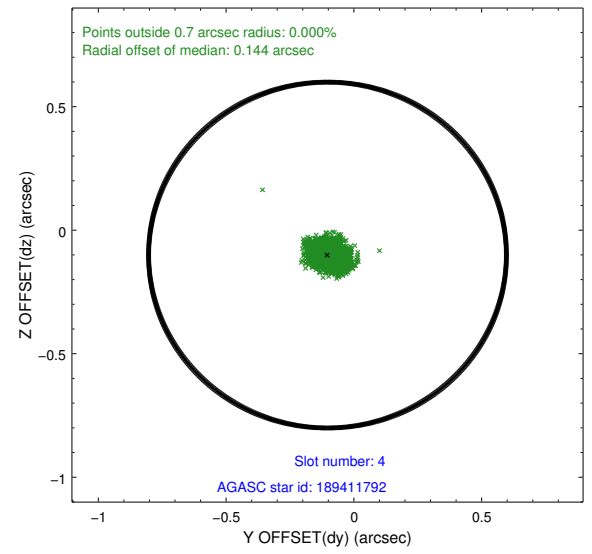
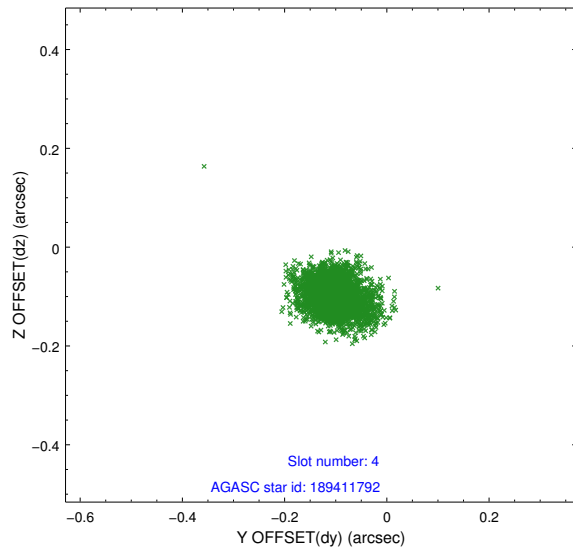
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.19	1362	0.068	-0.019	0.006	0.012	0.000000	0.000000	928.86	-1730.90
1	FID	ACIS-S-5	7.23	1362	-0.149	0.044	0.006	0.011	0.000000	0.000000	-1819.76	165.61
2	FID	ACIS-S-6	7.33	1362	0.060	-0.013	0.007	0.013	0.000000	0.000000	393.24	810.72
3	GUIDE	189401024	8.65	2724	-0.044	-0.055	0.064	0.103	185.977630	15.617765	163.99	1194.82
4	GUIDE	189411792	7.93	2724	-0.103	-0.101	0.051	0.084	186.226855	16.194788	2196.06	230.67
5	GUIDE	189413016	8.15	2724	-0.027	0.042	0.062	0.095	186.364497	16.171398	2089.60	-240.73
6	GUIDE	189414472	6.59	2725	0.064	-0.045	0.060	0.097	186.513657	15.863941	959.44	-703.61
7	GUIDE	189399064	8.58	2724	0.109	0.159	0.070	0.116	187.048930	15.252486	-1325.86	-2456.36

2.4 Star Slots

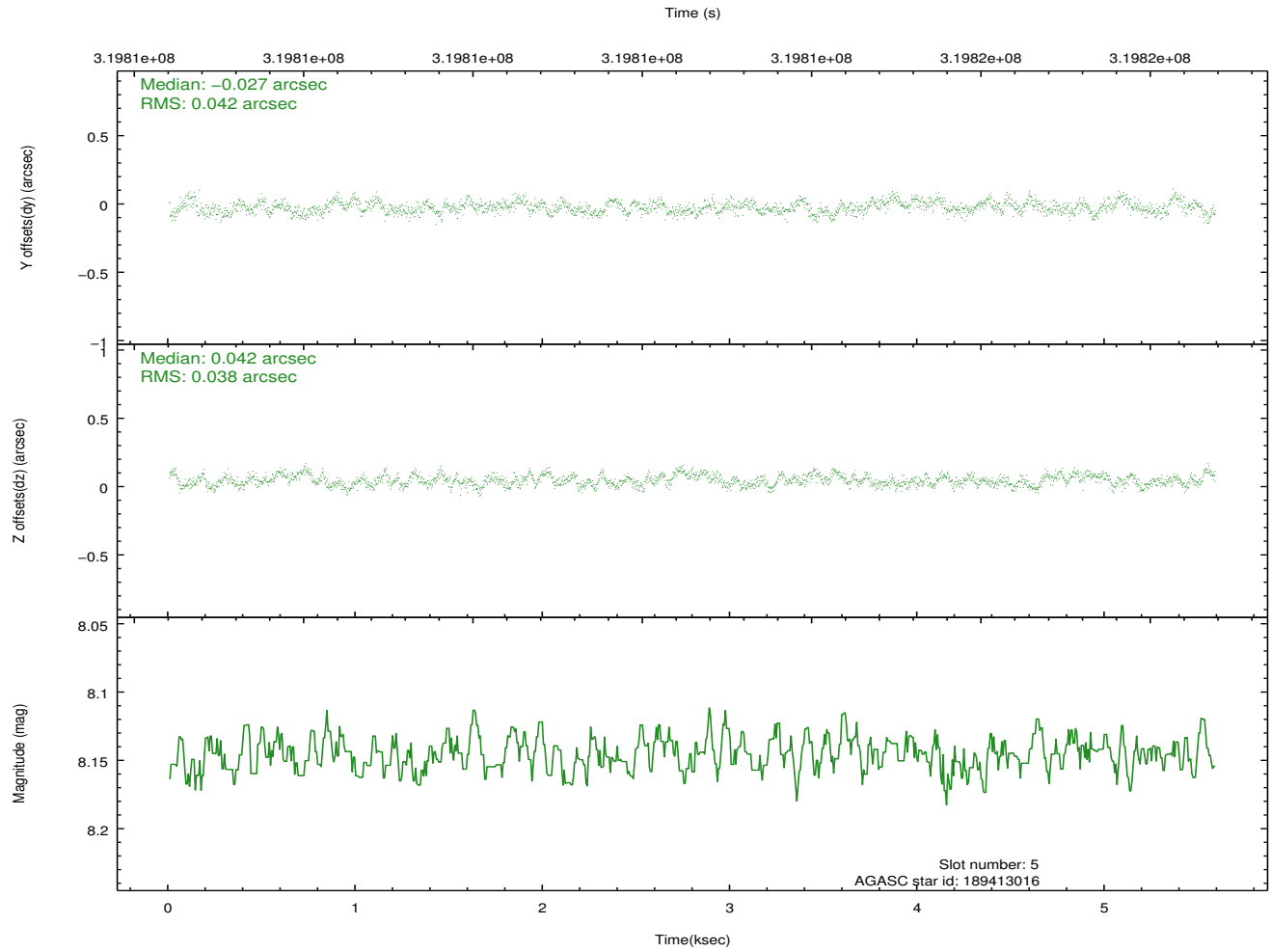
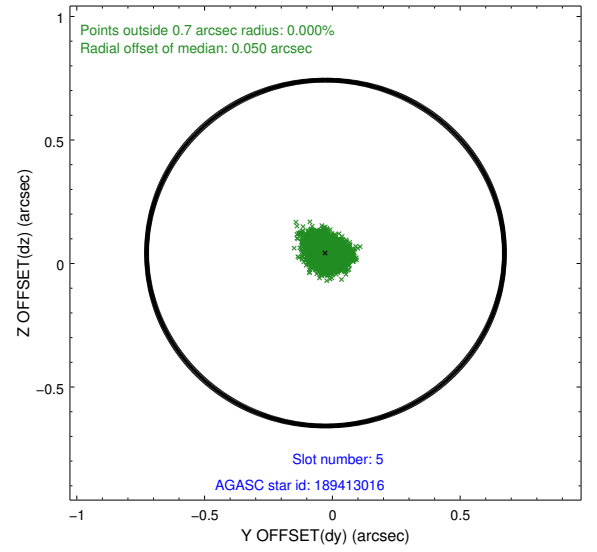
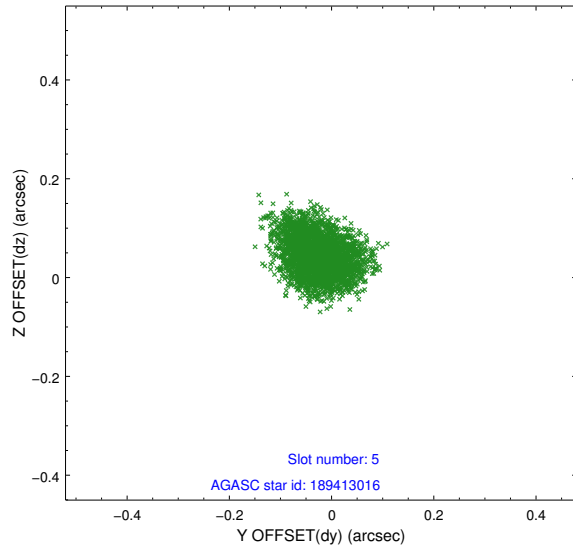
2.4.1 Slot 3



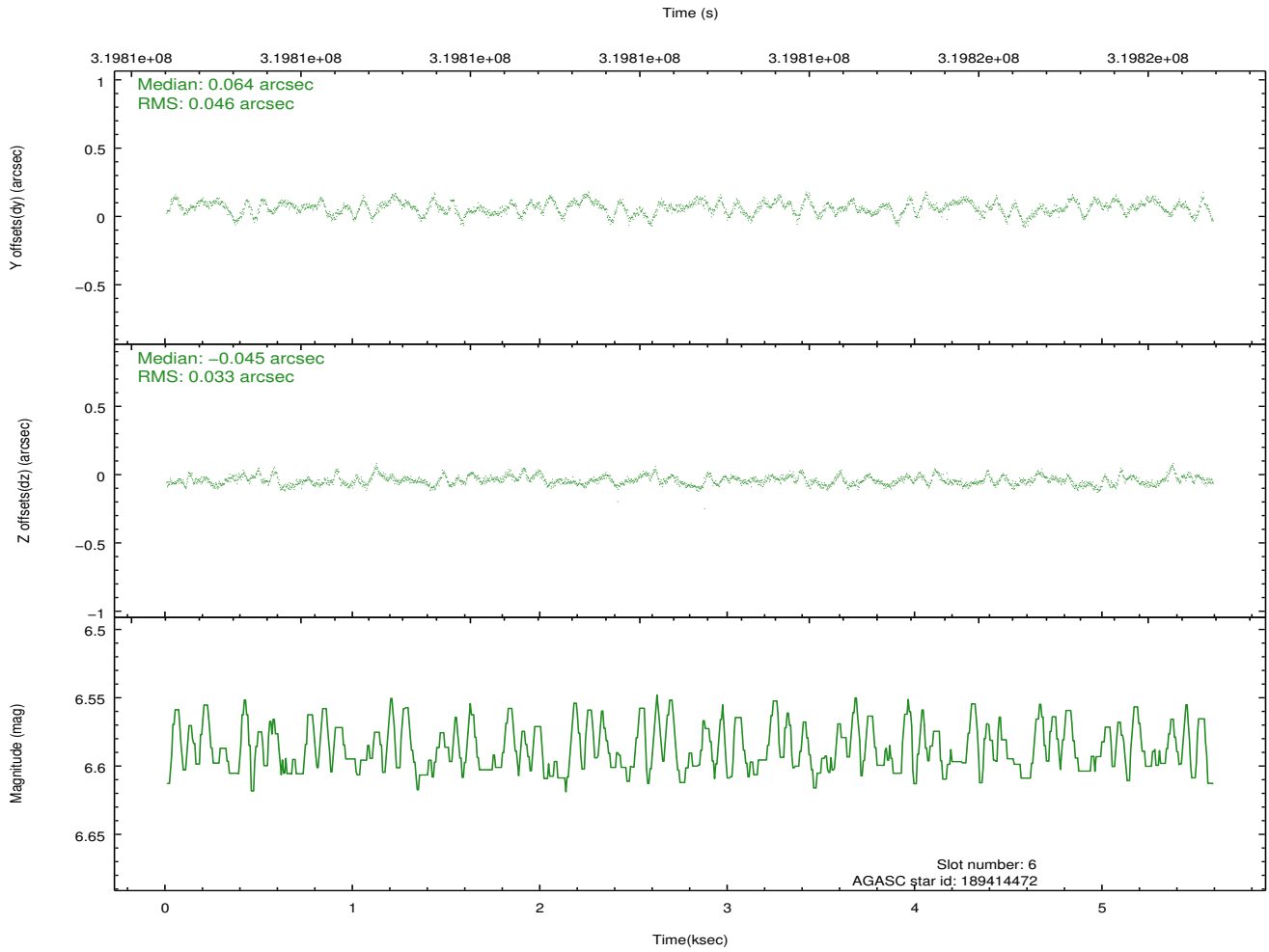
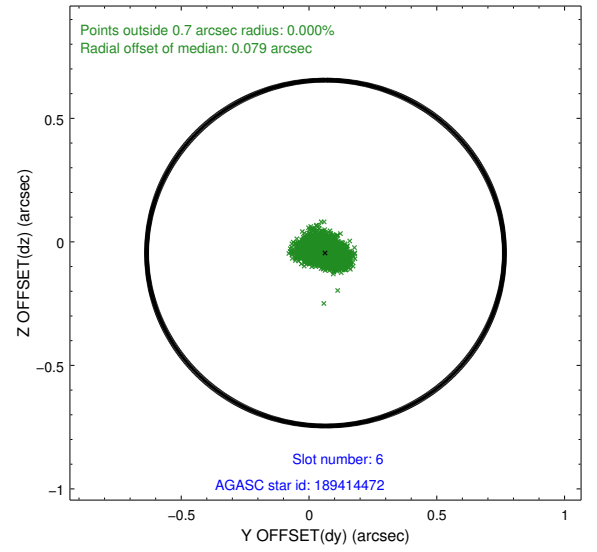
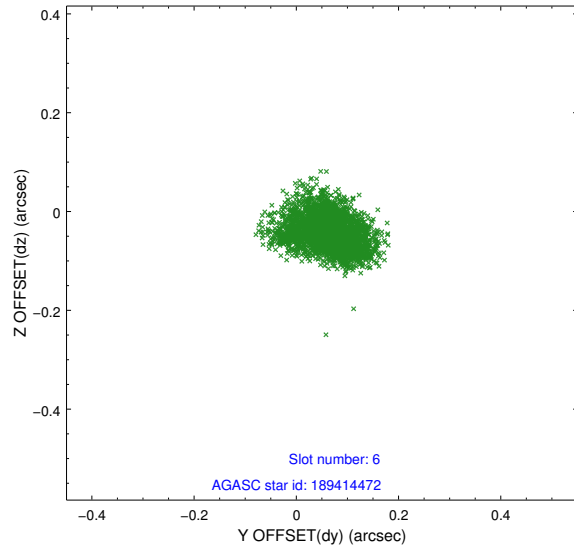
2.4.2 Slot 4



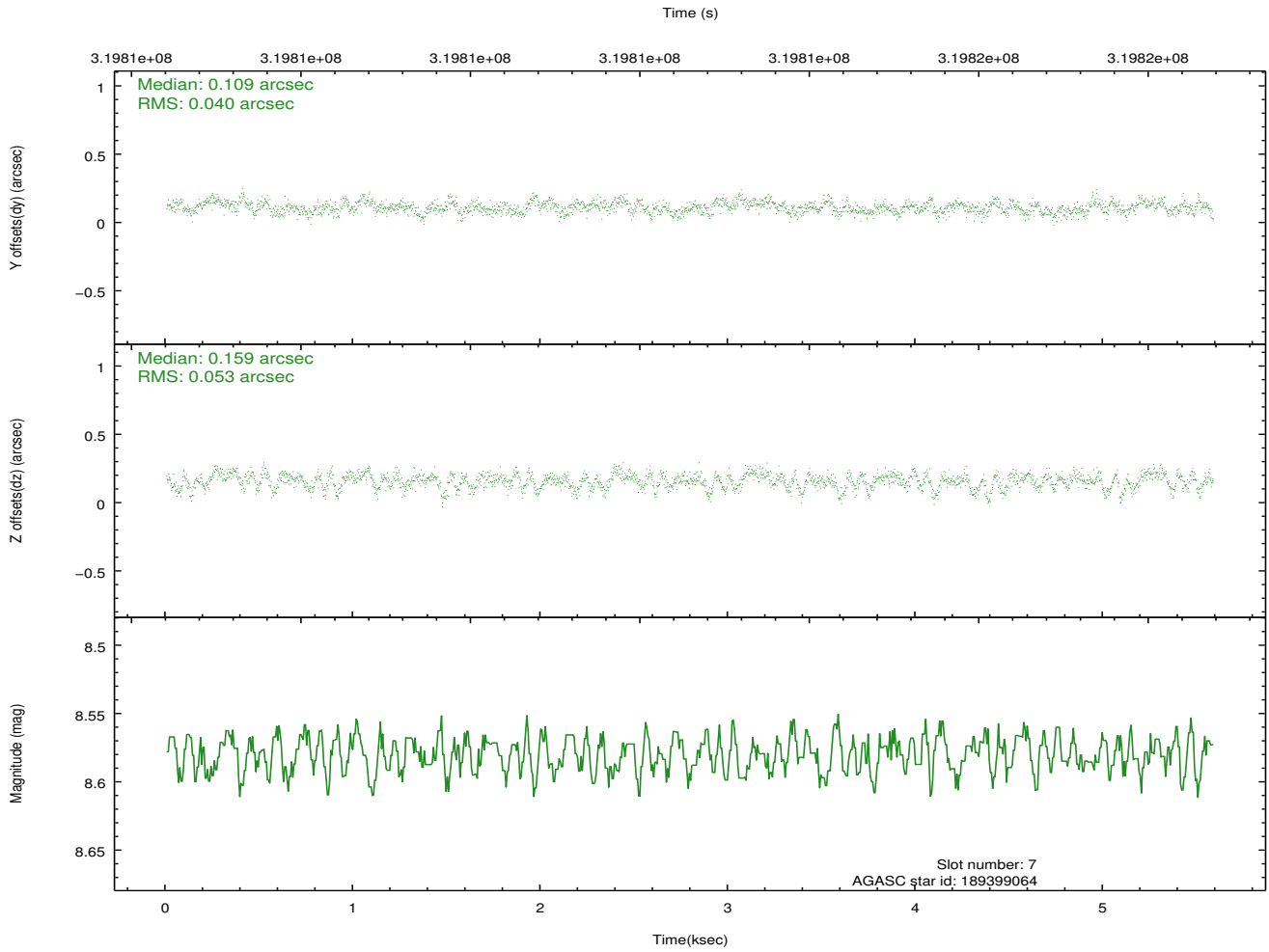
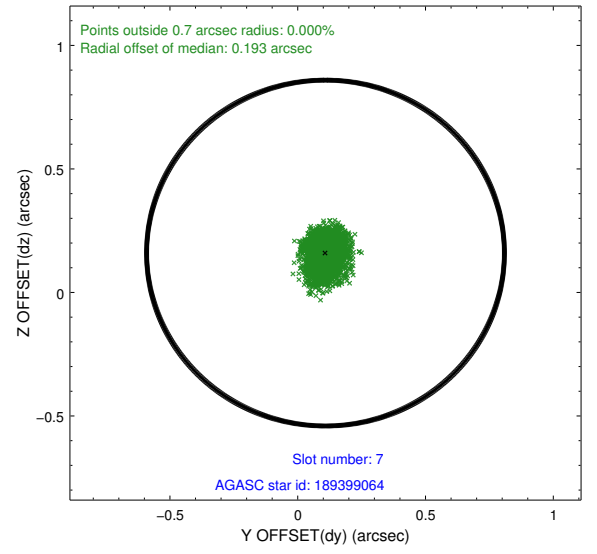
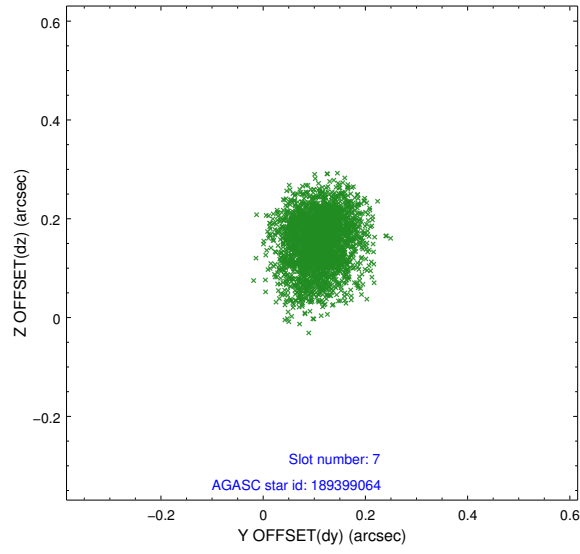
2.4.3 Slot 5



2.4.4 Slot 6

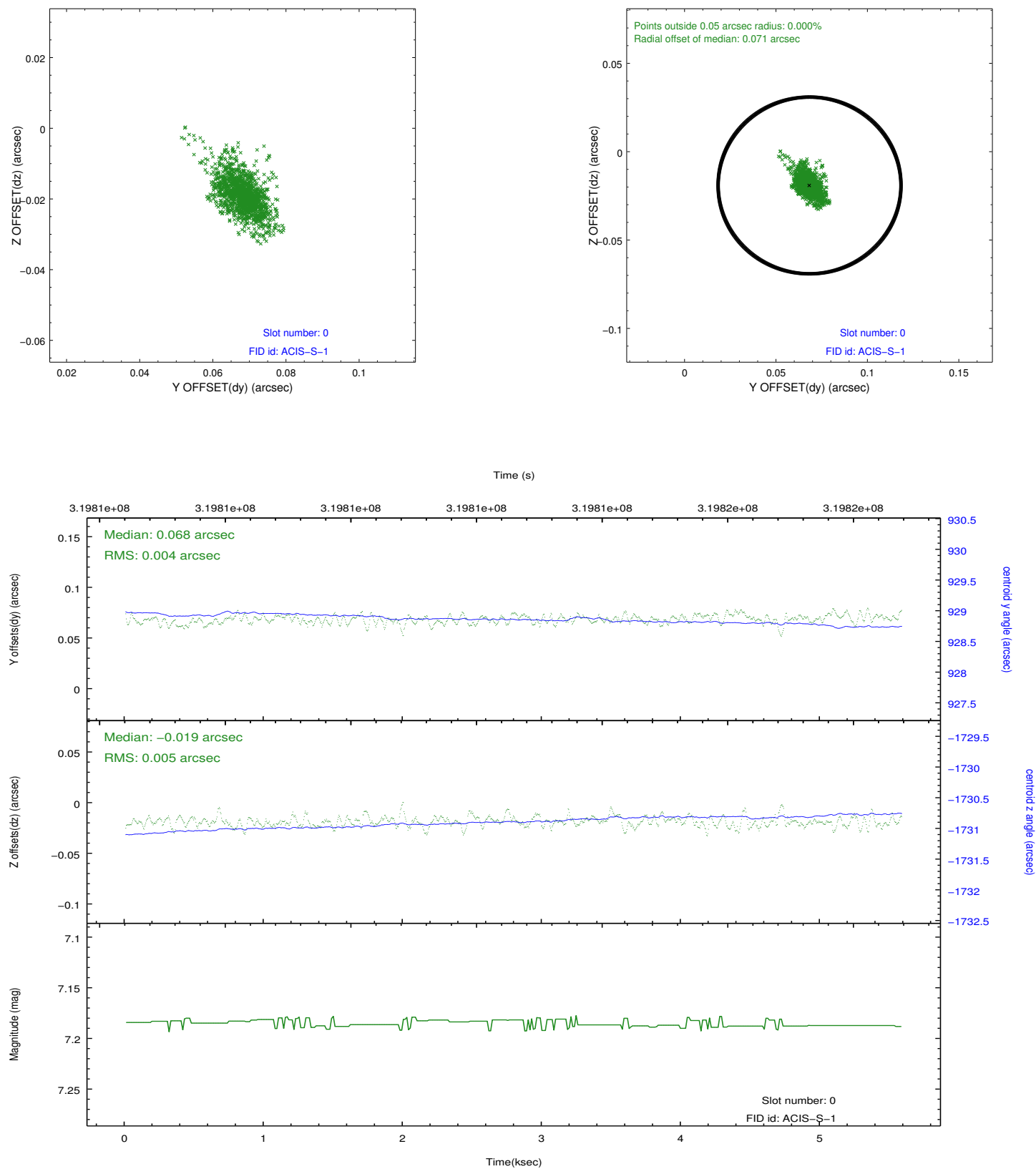


2.4.5 Slot 7

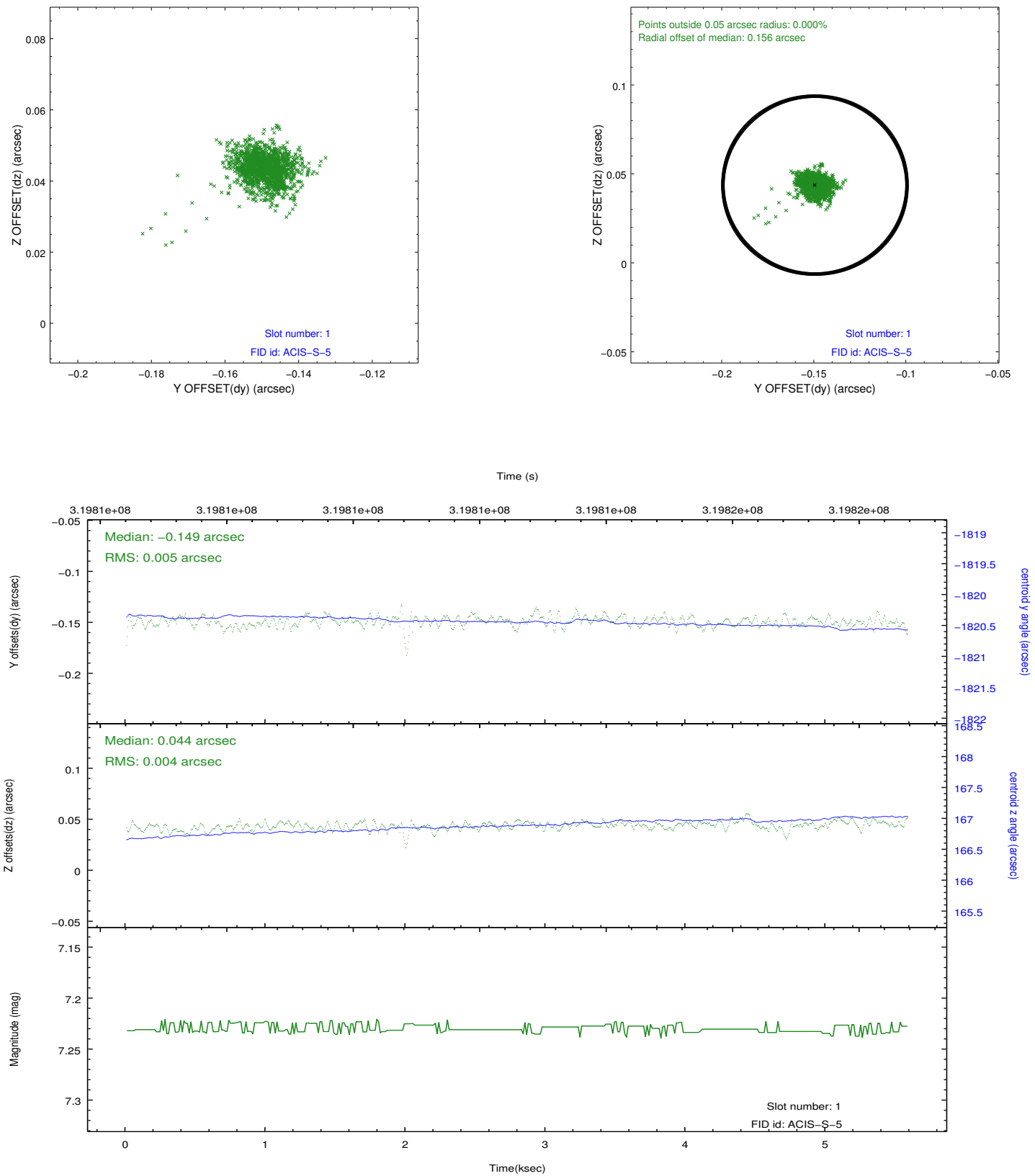


2.5 FID Slots

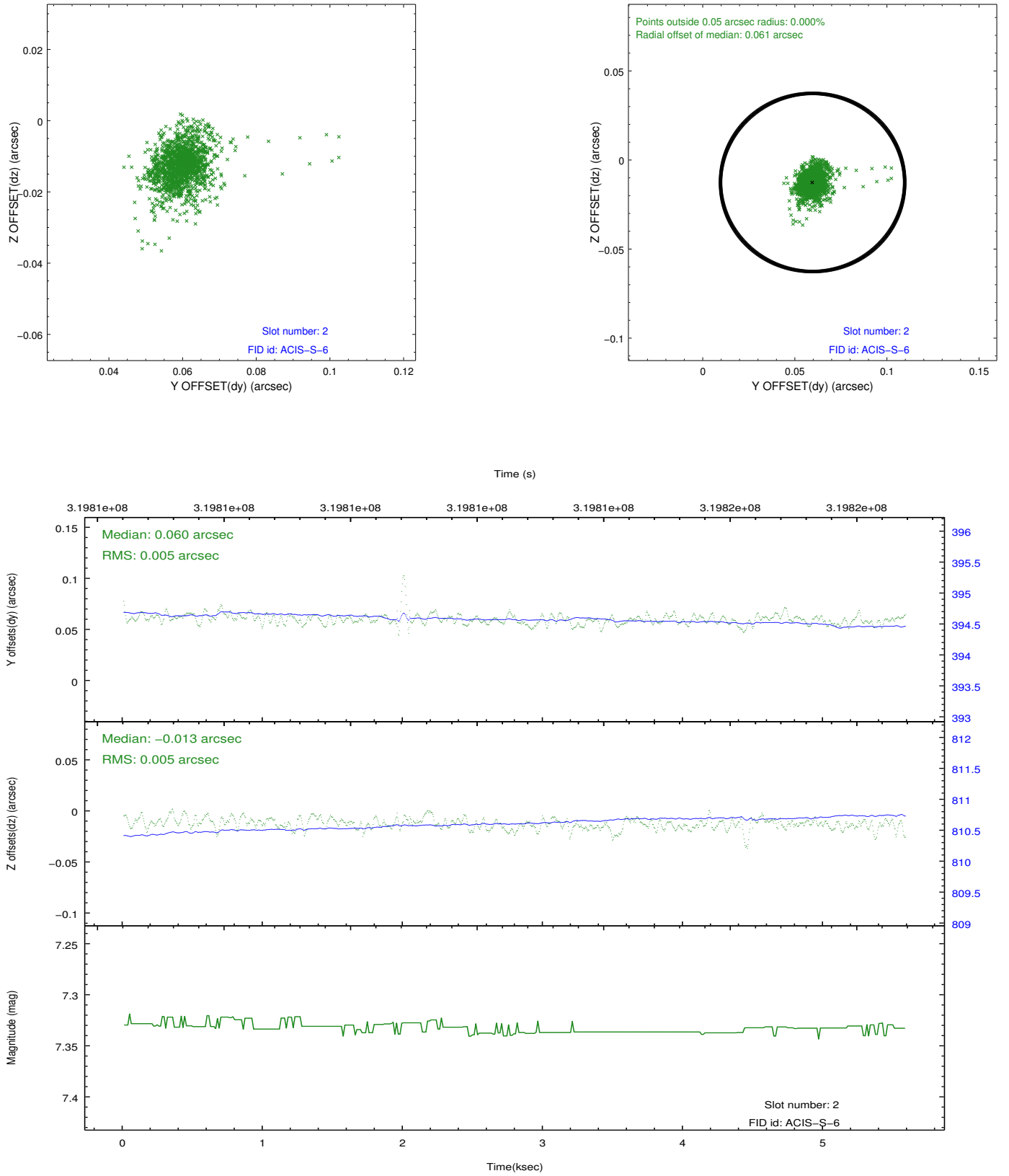
2.5.1 Slot 0



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	5.15839998

A.2 Comments

Joint Proposal: Spitzer