

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8058 - L2 Version 2
Chandra X-Ray Center

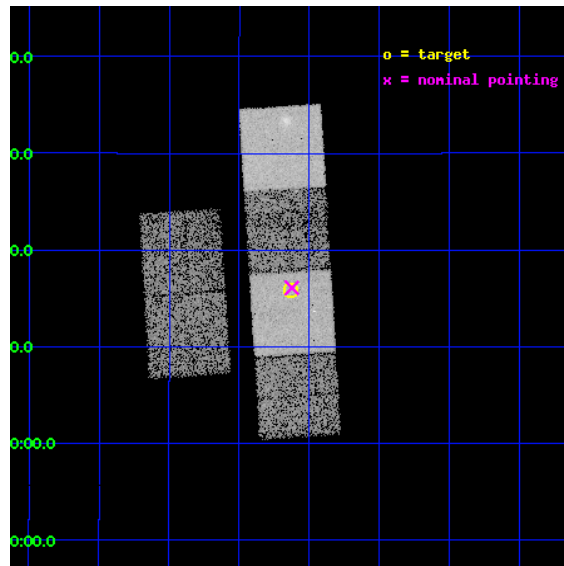
L2 Processing Date : May 9 2012

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1 Front

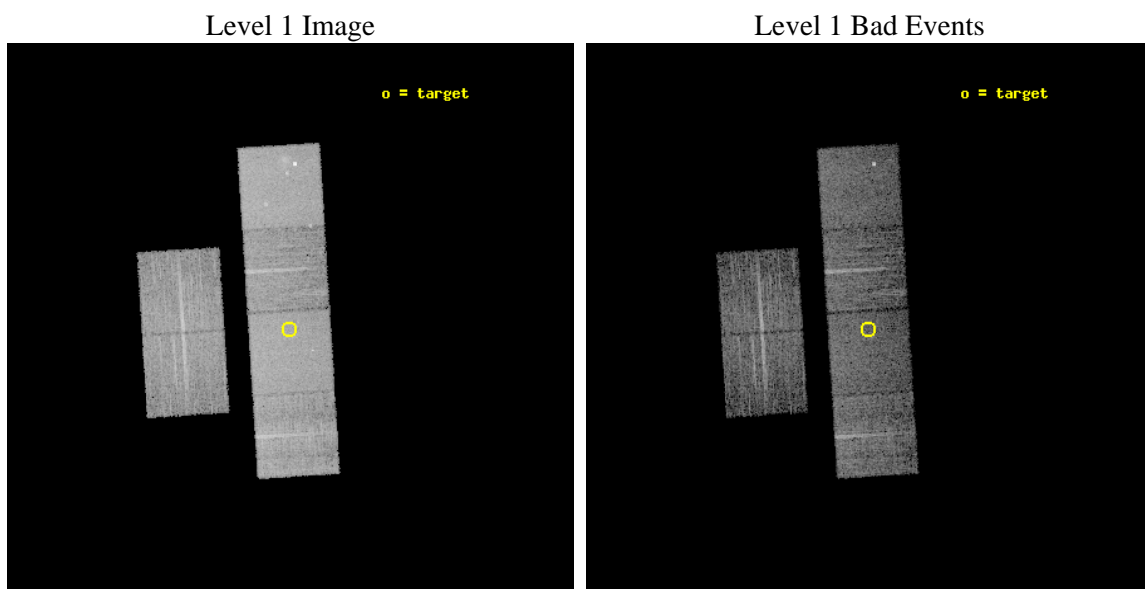
seq_num	900599	Sequence number
obs_id	8058	Observation id
title	The Duty Cycle of Supermassive Black Holes: X-raying Virgo	Proposa
observer	Prof Tommaso Treu	Principal investigator
object	1630	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	188.908333	Observer's specified target RA [deg]
dec_targ	12.264028	Observer's specified target Dec [deg]
ra_nom	188.9059386866	Nominal RA [deg]
dec_nom	12.268298303359	Nominal Dec [deg]
roll_nom	86.405147260971	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5574.3999792933	Sum of GTIs [s]
livetime	5503.8135702548	Livetime [s]
ontime2	5574.3999792933	Sum of GTIs [s]
ontime3	5574.3999792933	Sum of GTIs [s]
ontime5	5574.3999792933	Sum of GTIs [s]
ontime6	5574.3999792933	Sum of GTIs [s]
ontime7	5574.3999792933	Sum of GTIs [s]
ontime8	5574.3999792933	Sum of GTIs [s]
l2events	91952	Number of level 2 events



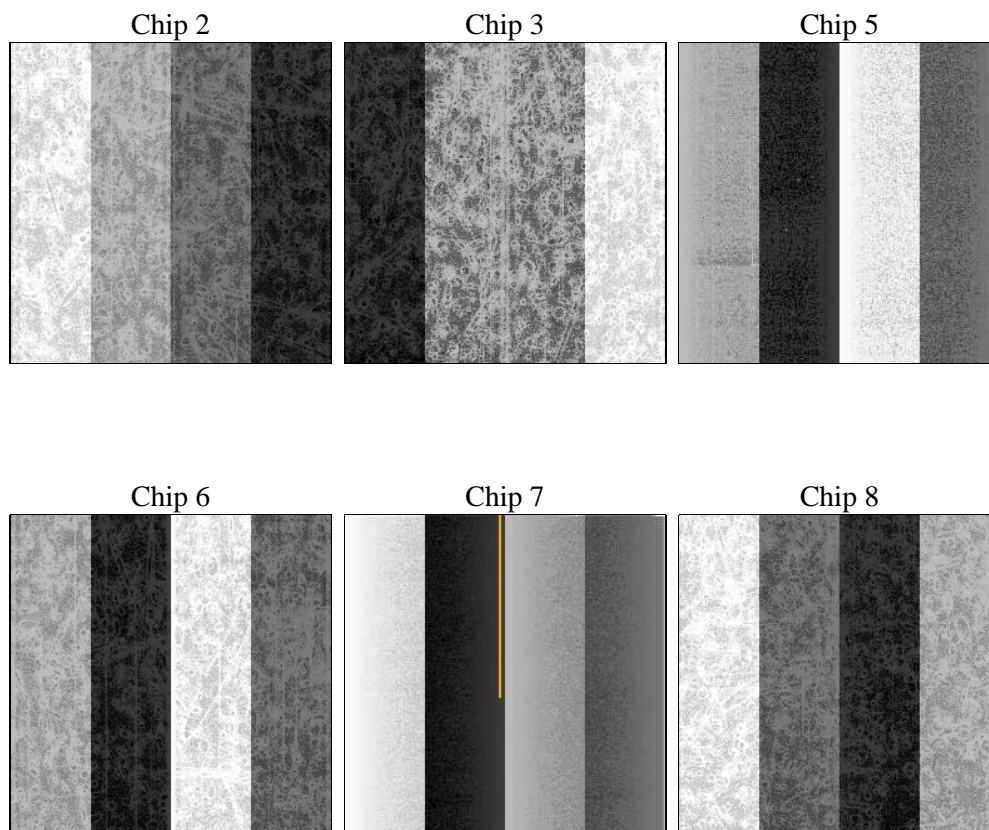
2 OBI

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	5574.3999792933	Sum of GTIs [s]
caldsver	4.4.9	 	ontime2	5574.3999792933	Sum of GTIs [s]
date	2012-05-09T19:12:32	Date and time of file creation	ontime3	5574.3999792933	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	5574.3999792933	Sum of GTIs [s]
			ontime6	5574.3999792933	Sum of GTIs [s]
			ontime7	5574.3999792933	Sum of GTIs [s]
			ontime8	5574.3999792933	Sum of GTIs [s]
			l1events	479193	Number of level 1 events

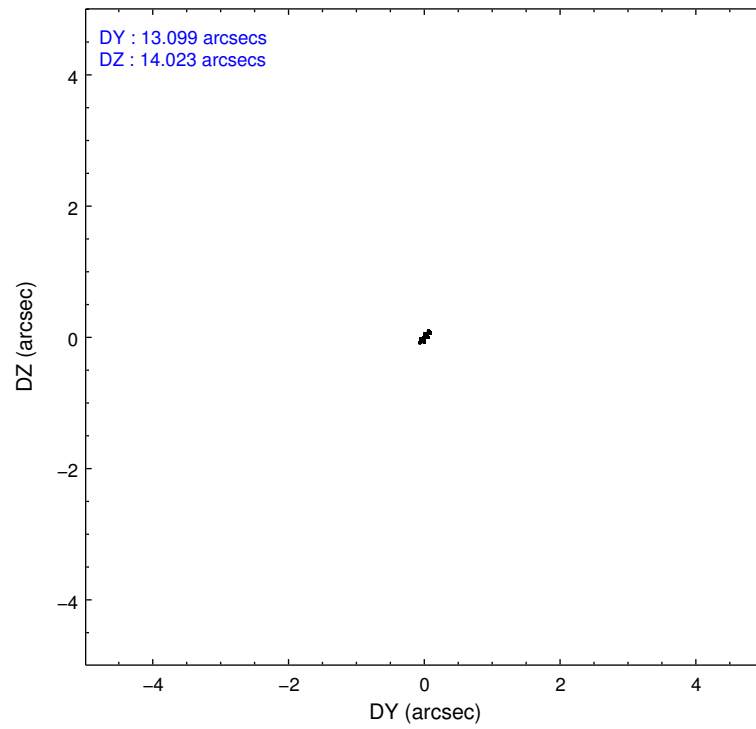
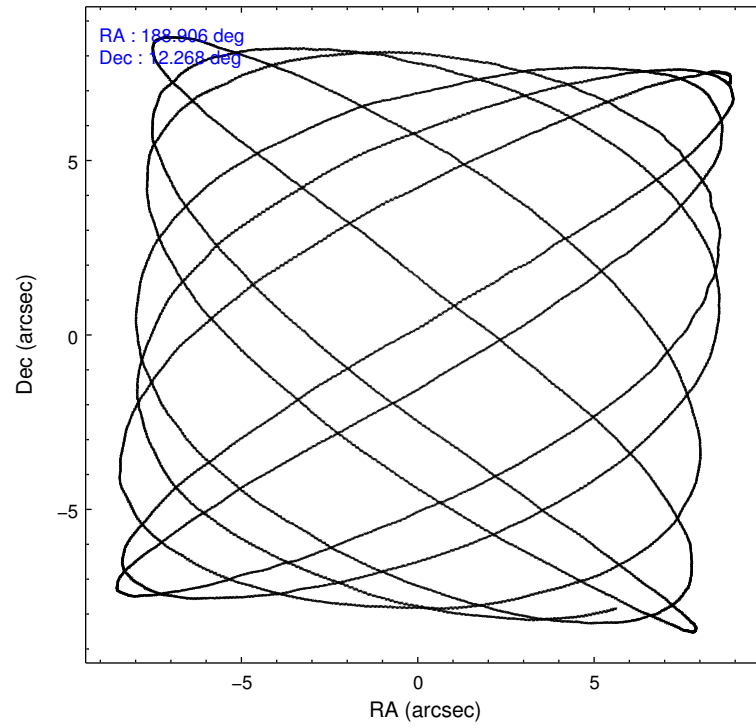
2.1.4 Events

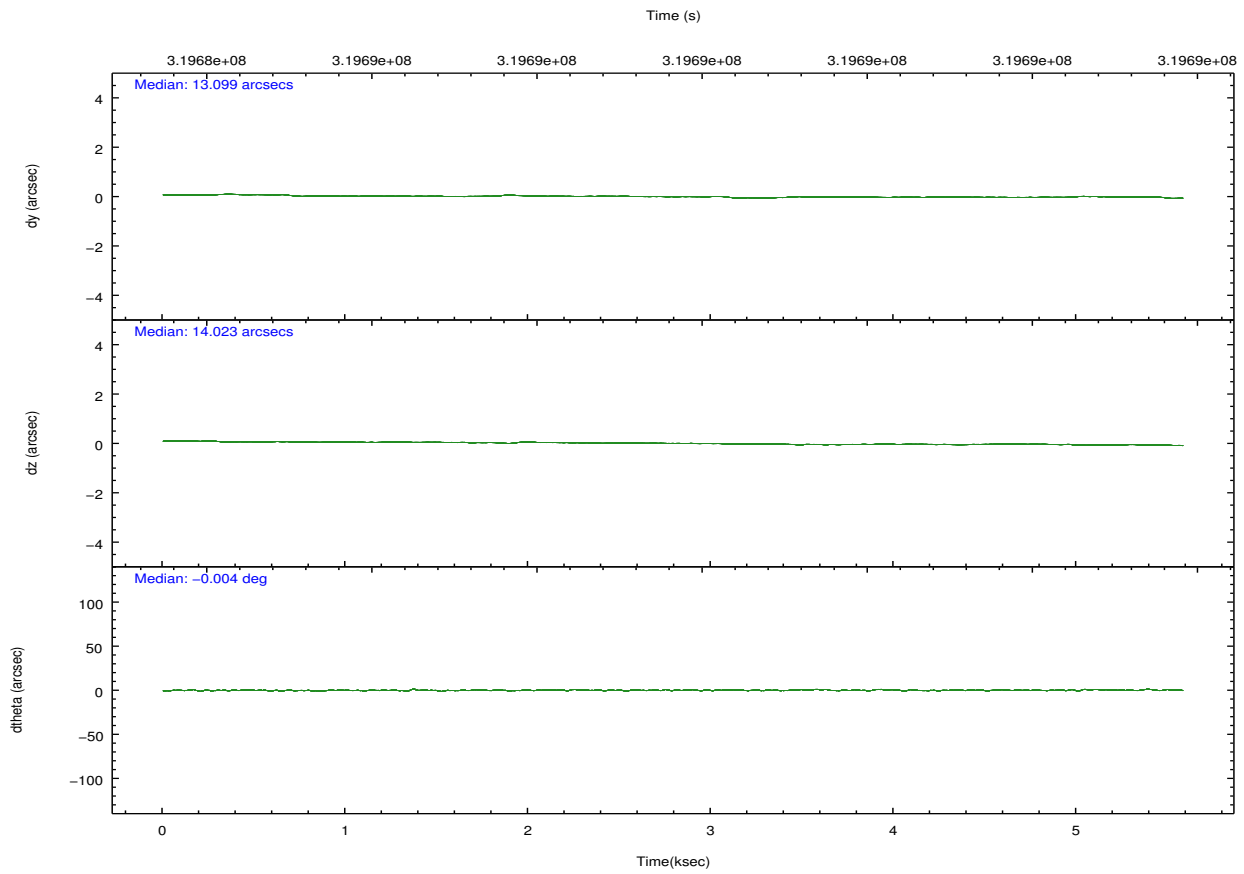
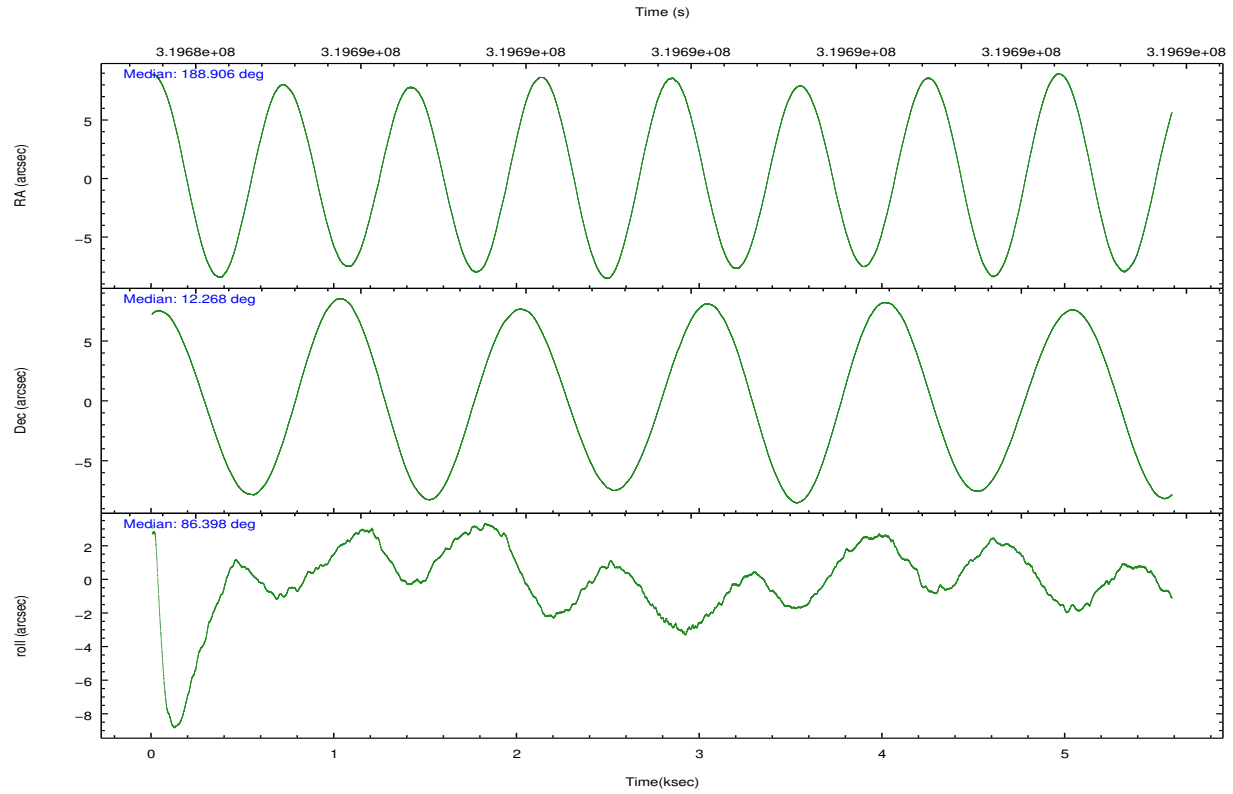
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	67973	64235	104965	65339	92793	83888	grade 0 events	3449	3513	4572	3512	3397	6224
rejected events	61450	57769	65486	58429	61130	68653		5%	5%	4%	5%	3%	7%
rejected %	90%	89%	62%	89%	65%	81%	grade 1 events	40	52	337	35	83	61
								0%	0%	0%	0%	0%	0%
							grade 2 events	1718	1596	15548	1909	8065	4200
								2%	2%	14%	2%	8%	5%
							grade 3 events	724	743	1741	733	3289	1860
								1%	1%	1%	1%	3%	2%
							grade 4 events	700	772	1700	721	3235	1853
								1%	1%	1%	1%	3%	2%
							grade 5 events	2734	3071	6890	2979	8525	4091
								4%	4%	6%	4%	9%	4%
							grade 6 events	1399	1455	25246	1628	20997	4782
								2%	2%	24%	2%	22%	5%
							grade 7 events	57209	53033	48931	53822	45202	60817
								84%	82%	46%	82%	48%	72%

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	188.918781	188.9059386865996	CCD I2 on	O1	Y
[deg] Pointing Dec	12.243983	12.26829830335854	CCD I3 on	O2	Y
[deg] Pointing Roll	86.245787	86.40514726097143	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)	319685211.184000	319683470.67914	CCD S5 on	N	N
Observation start date	2008-02-18T01:25:46	2008-02-18T00:57:50	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	319690611.184000	319691539.99203	On-chip summing requested	N	N
Observation end date	2008-02-18T02:55:46	2008-02-18T03:12:19	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



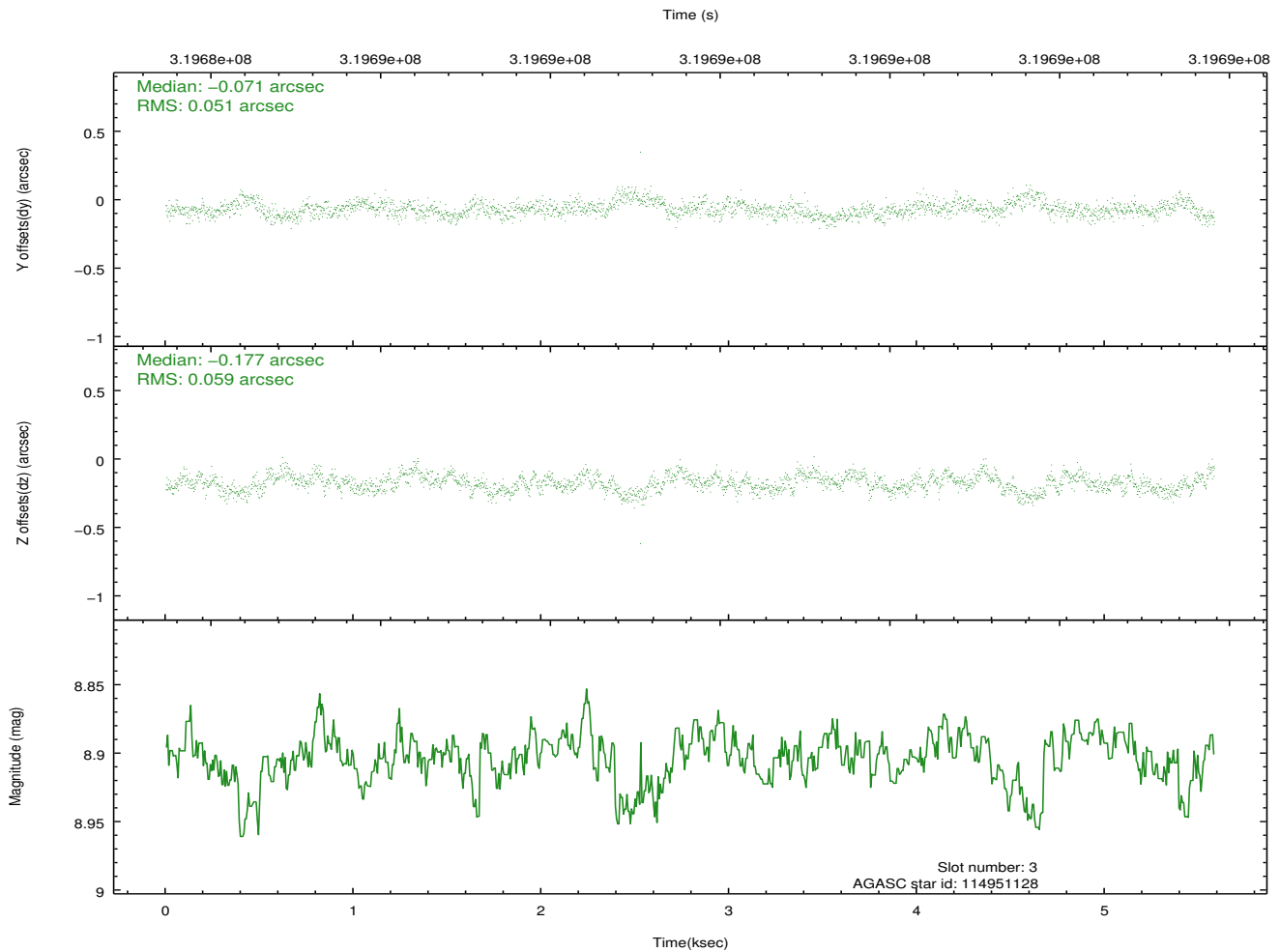
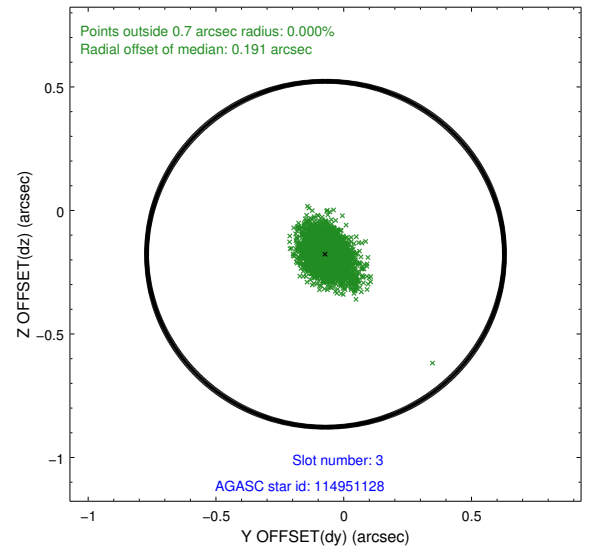
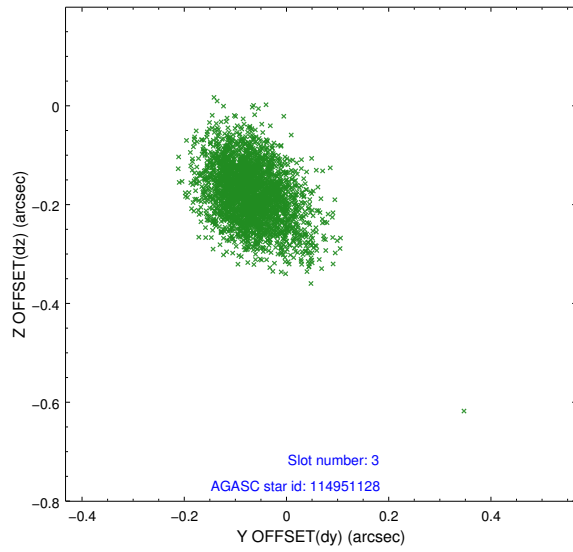


Slot Statistics

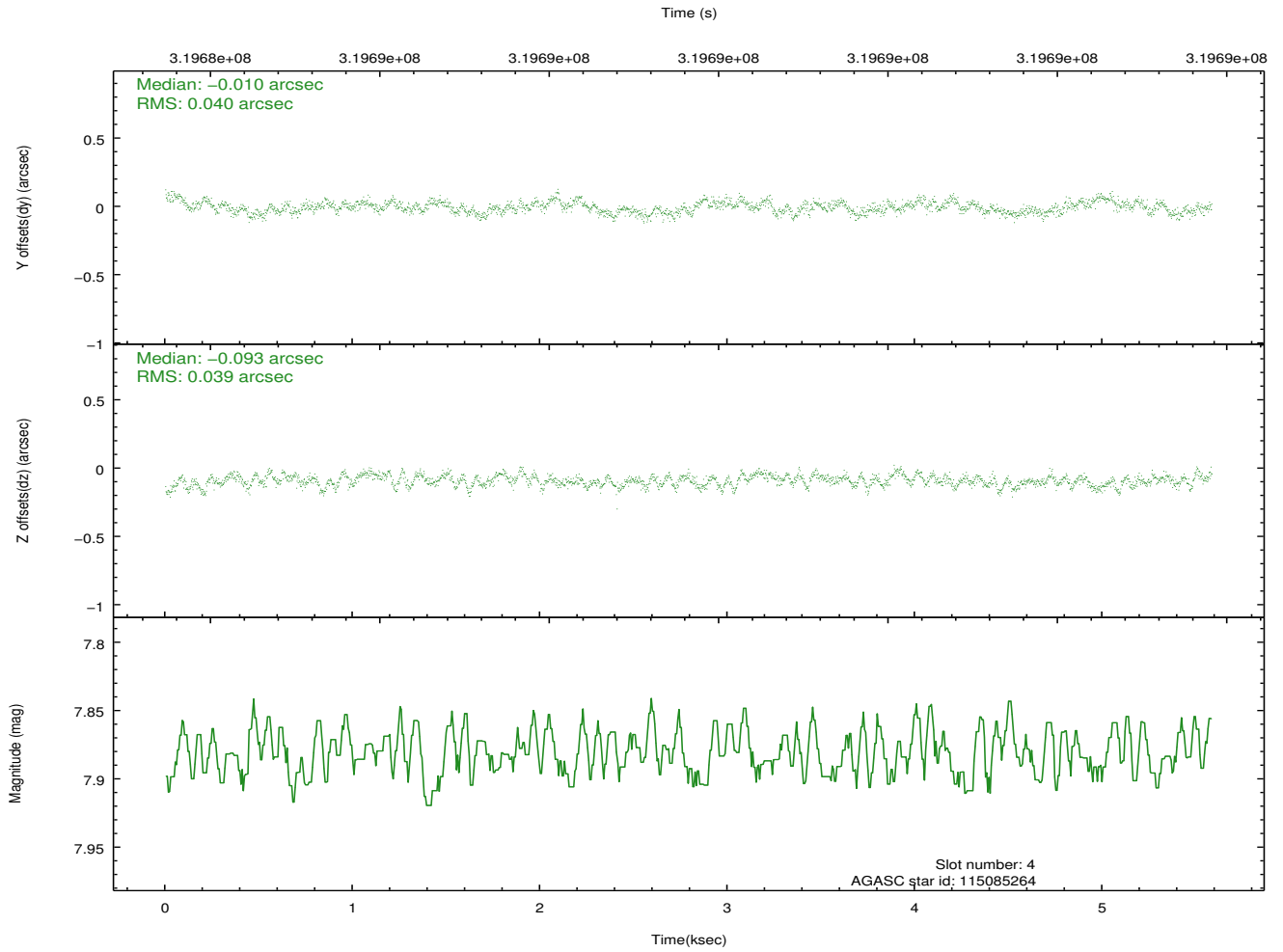
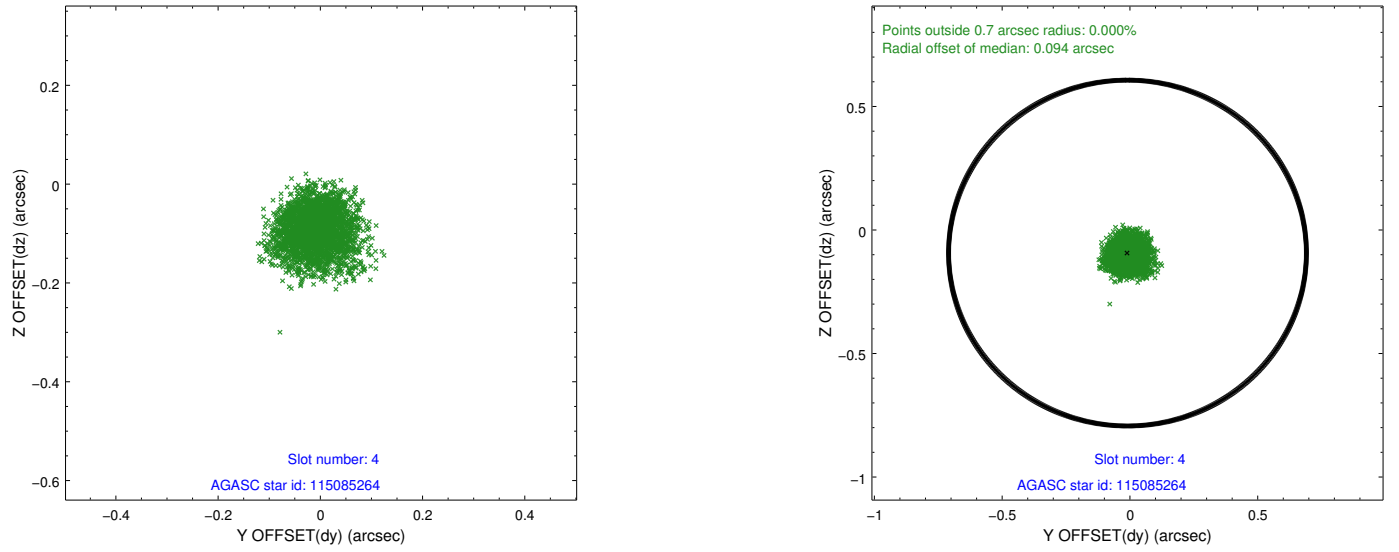
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1362	-0.044	-0.057	0.007	0.011	0.000000	0.000000	-766.05	-1735.44
1	FID	ACIS-S-4	7.19	1362	0.171	0.037	0.006	0.011	0.000000	0.000000	2146.94	172.04
2	FID	ACIS-S-5	7.23	1362	-0.159	0.029	0.006	0.010	0.000000	0.000000	-1817.64	166.90
3	GUIDE	114951128	8.90	2722	-0.071	-0.177	0.081	0.137	188.719863	12.459246	727.43	748.18
4	GUIDE	115085264	7.88	2718	-0.010	-0.093	0.061	0.096	189.302301	11.817775	-1440.76	-1448.98
5	GUIDE	115085768	9.98	2720	0.265	0.159	0.127	0.208	189.167689	11.938344	-1039.85	-947.37
6	GUIDE	115086528	8.95	2722	0.033	-0.005	0.089	0.147	189.286111	12.182164	-136.41	-1304.82
7	GUIDE	115481912	8.59	2723	-0.224	0.114	0.070	0.111	189.408526	12.669552	1643.36	-1616.29

2.4 Star Slots

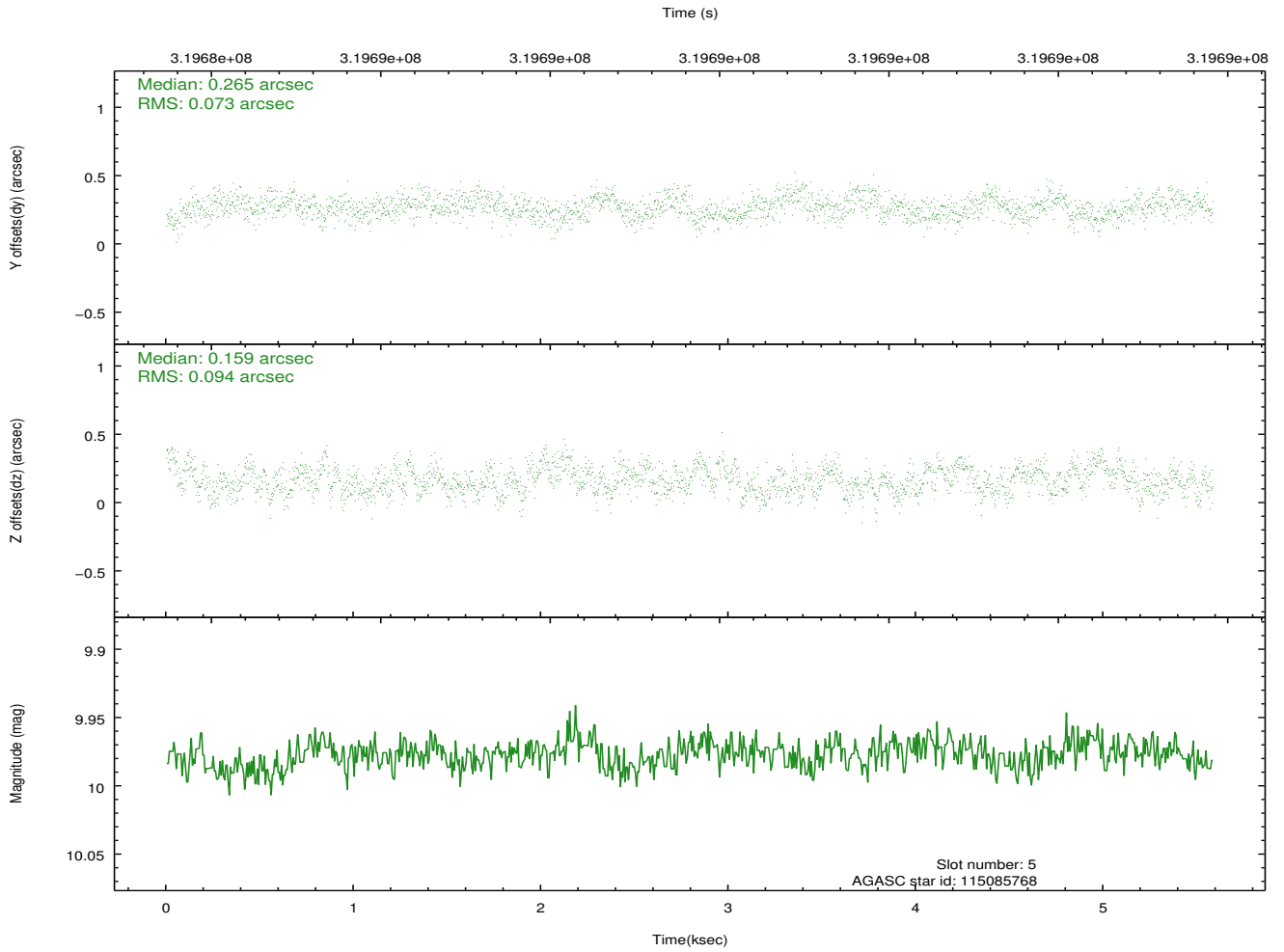
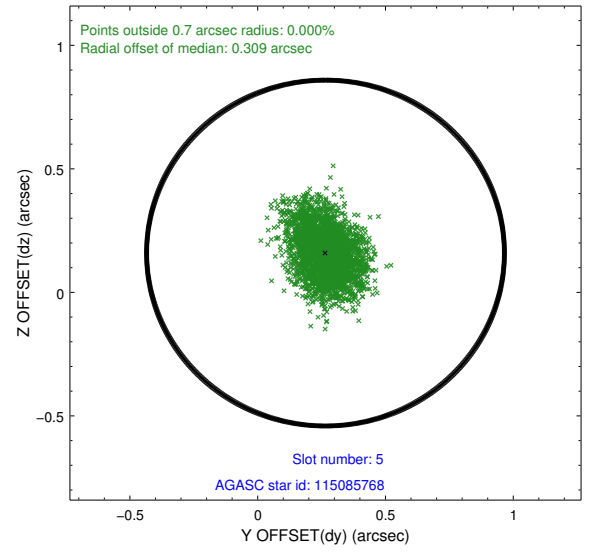
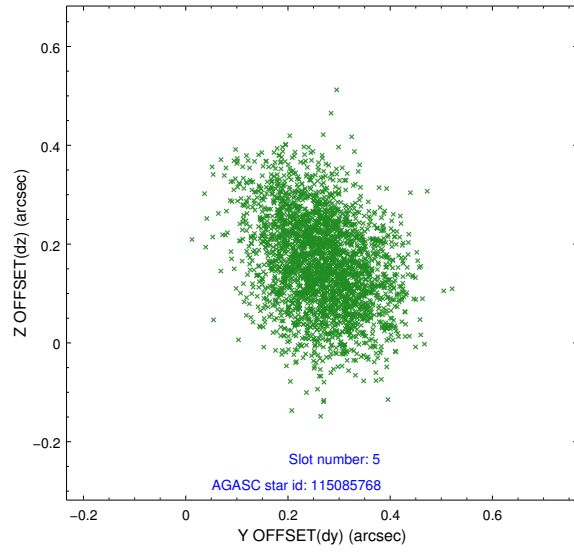
2.4.1 Slot 3



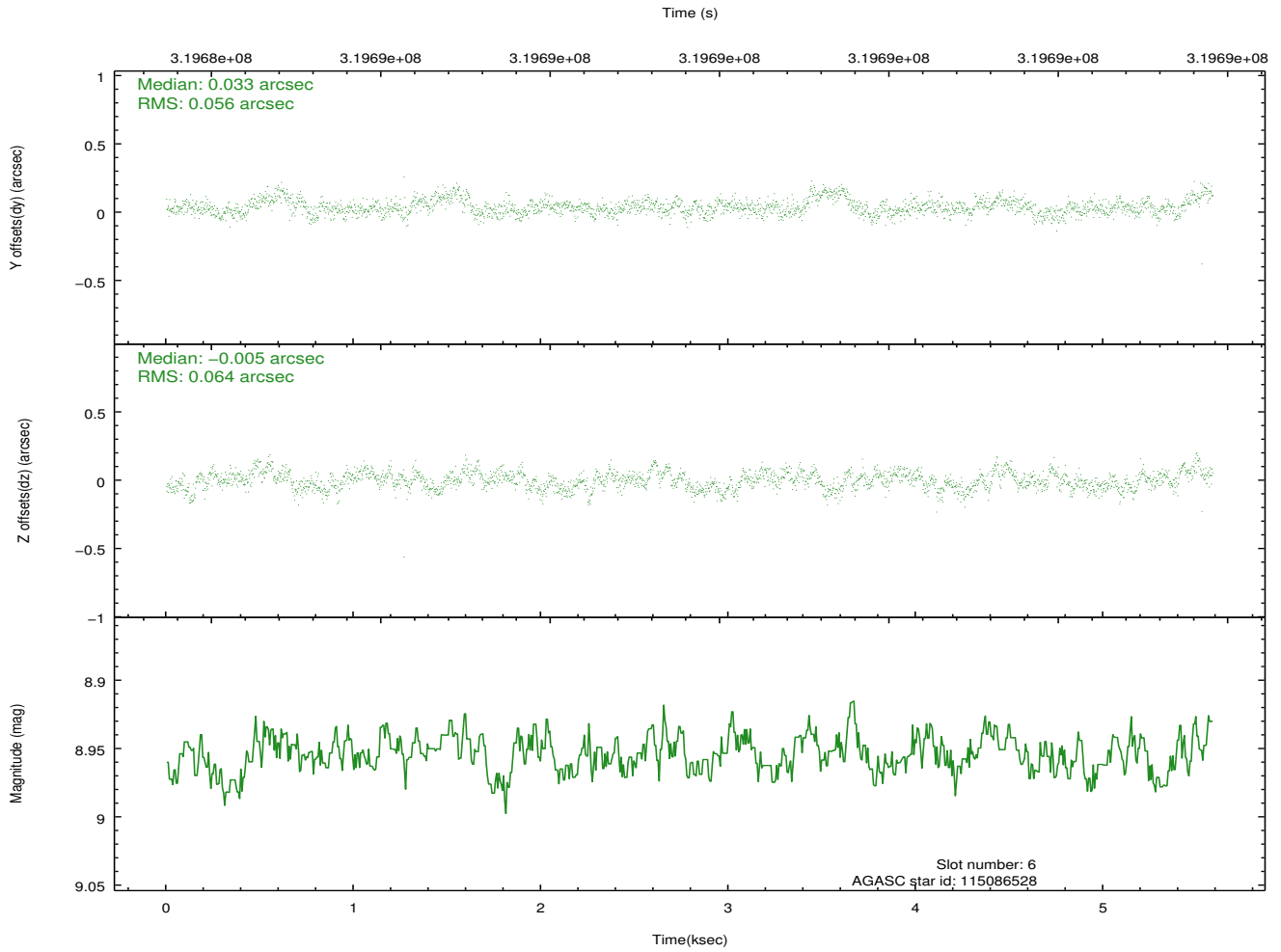
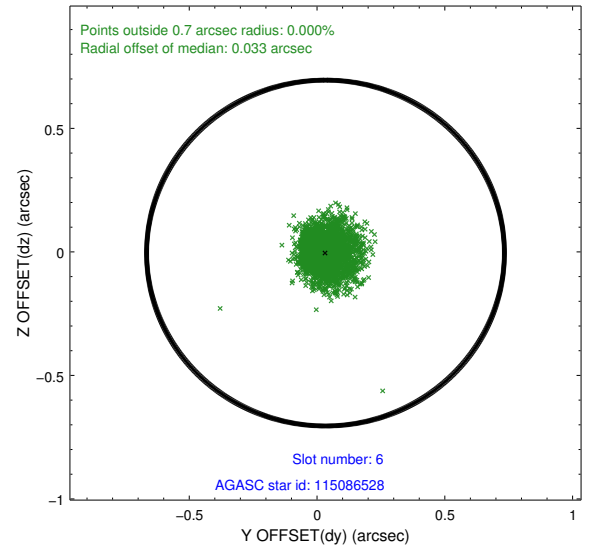
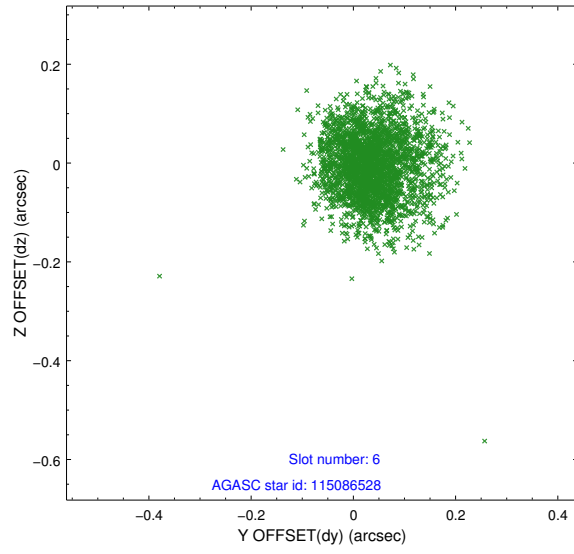
2.4.2 Slot 4



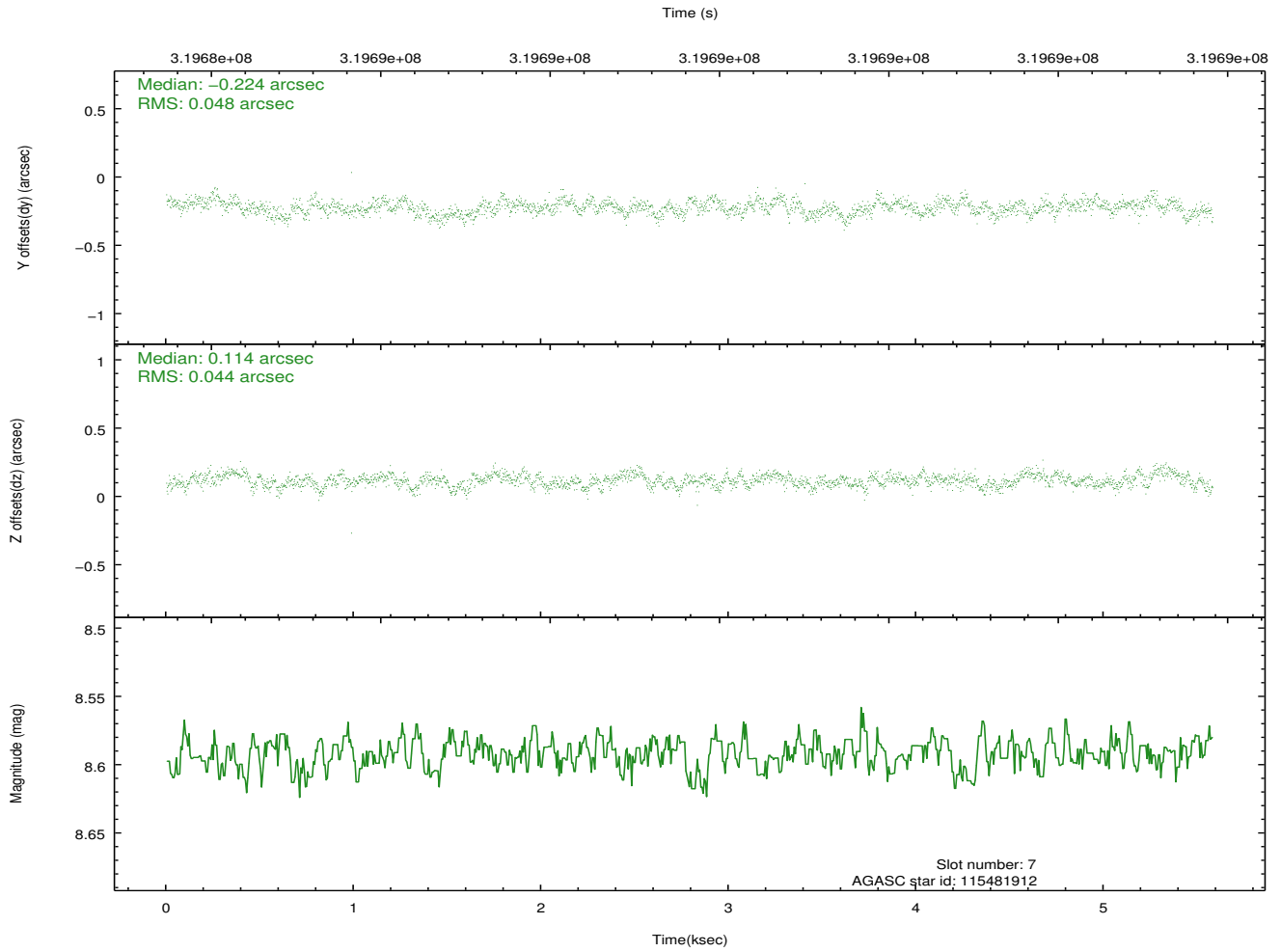
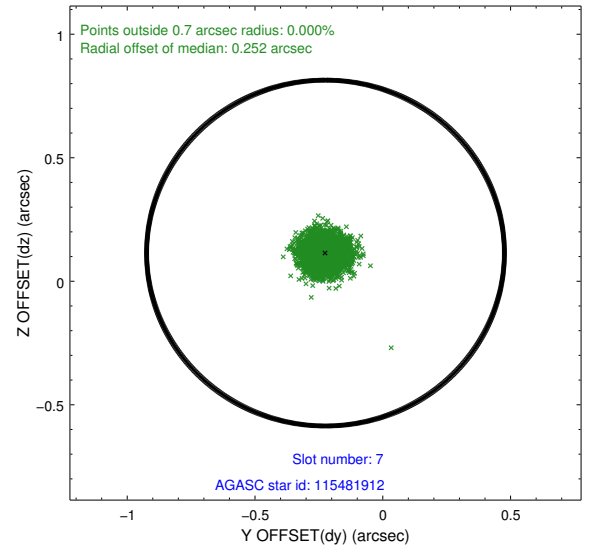
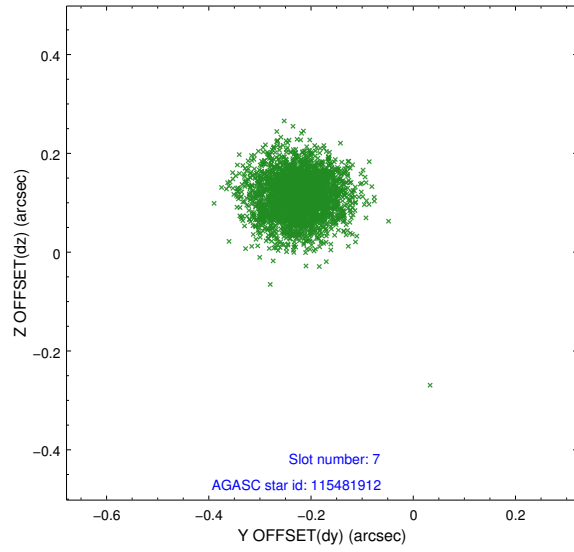
2.4.3 Slot 5



2.4.4 Slot 6

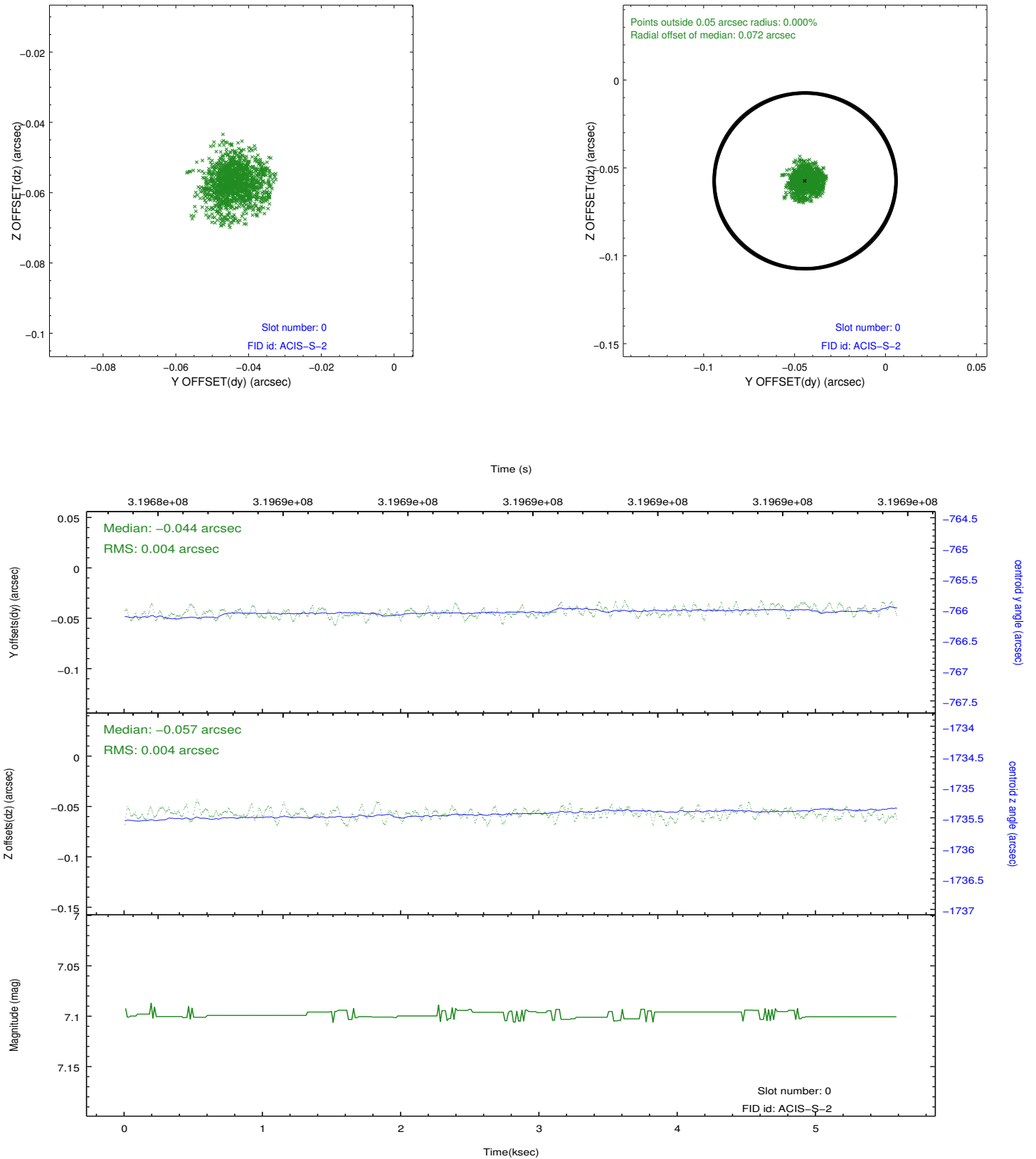


2.4.5 Slot 7

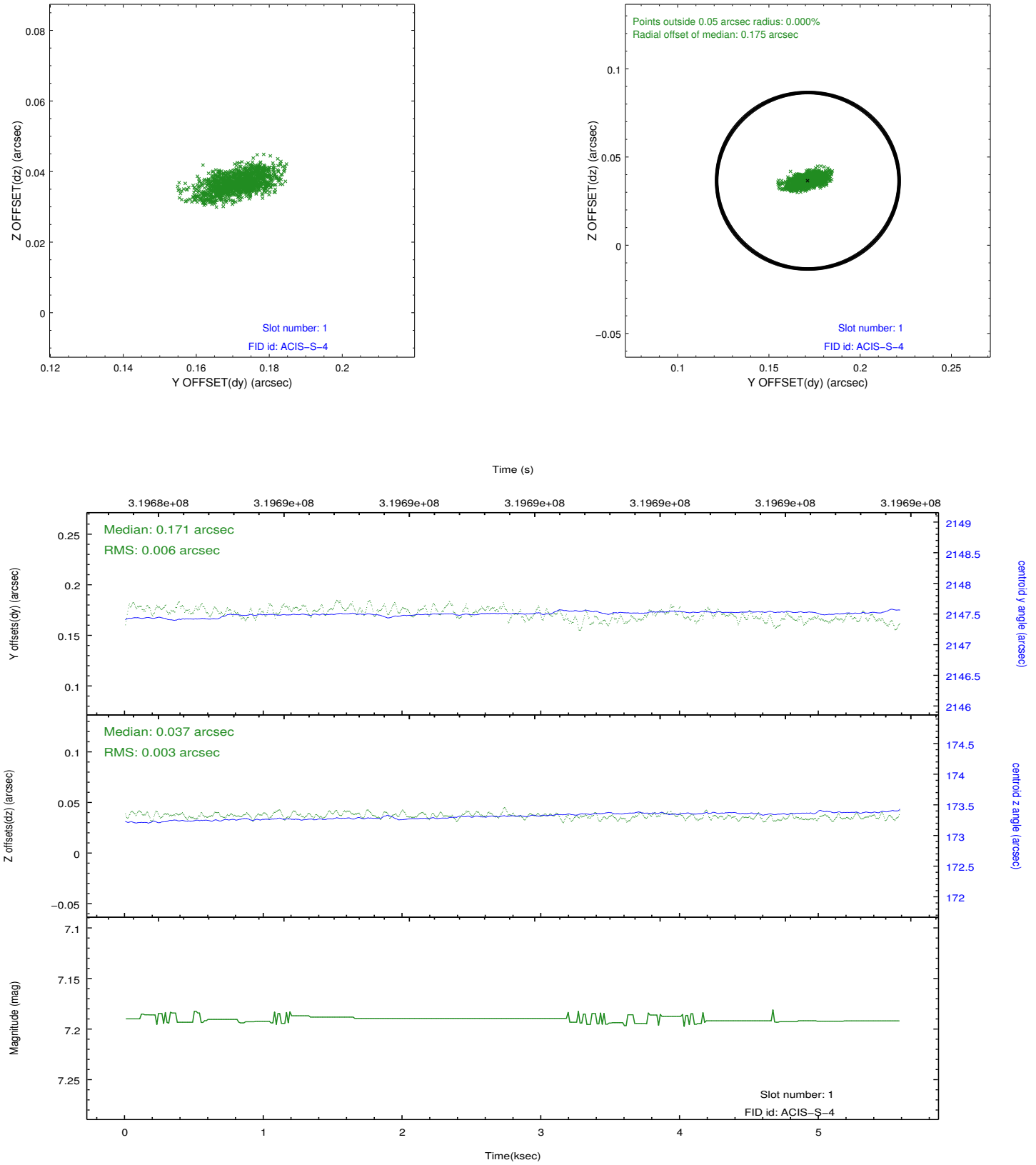


2.5 FID Slots

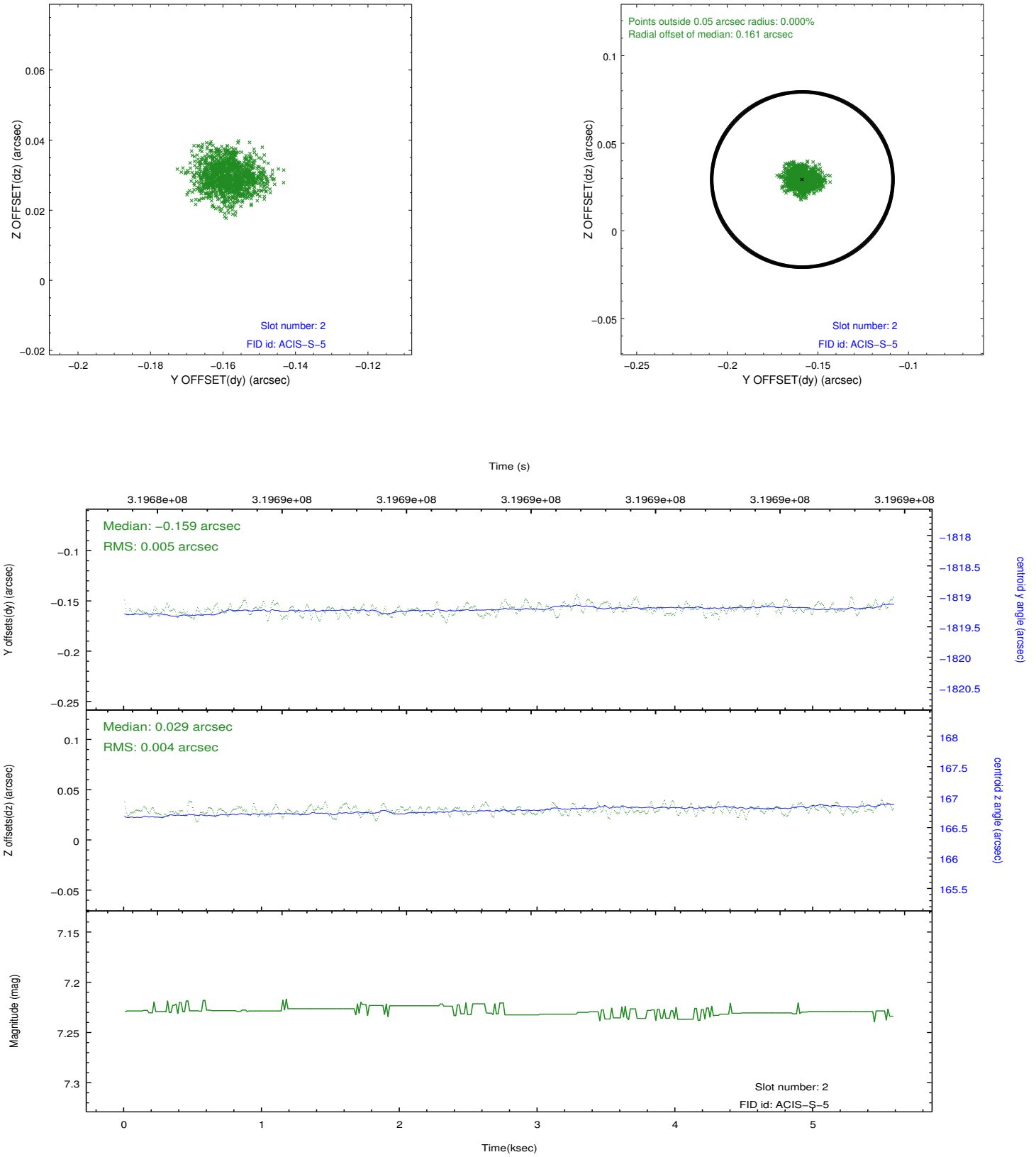
2.5.1 Slot 0



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	5.57439997

A.2 Comments

Joint Proposal: Spitzer