

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8095 - L2 Version 2
Chandra X-Ray Center

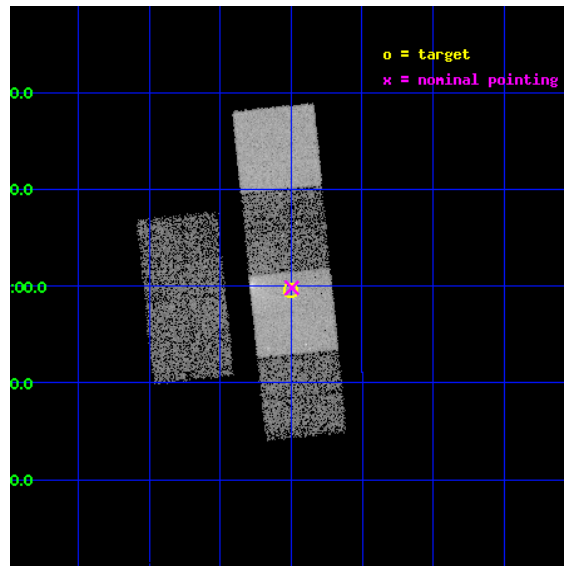
L2 Processing Date : May 10 2012

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1 Front

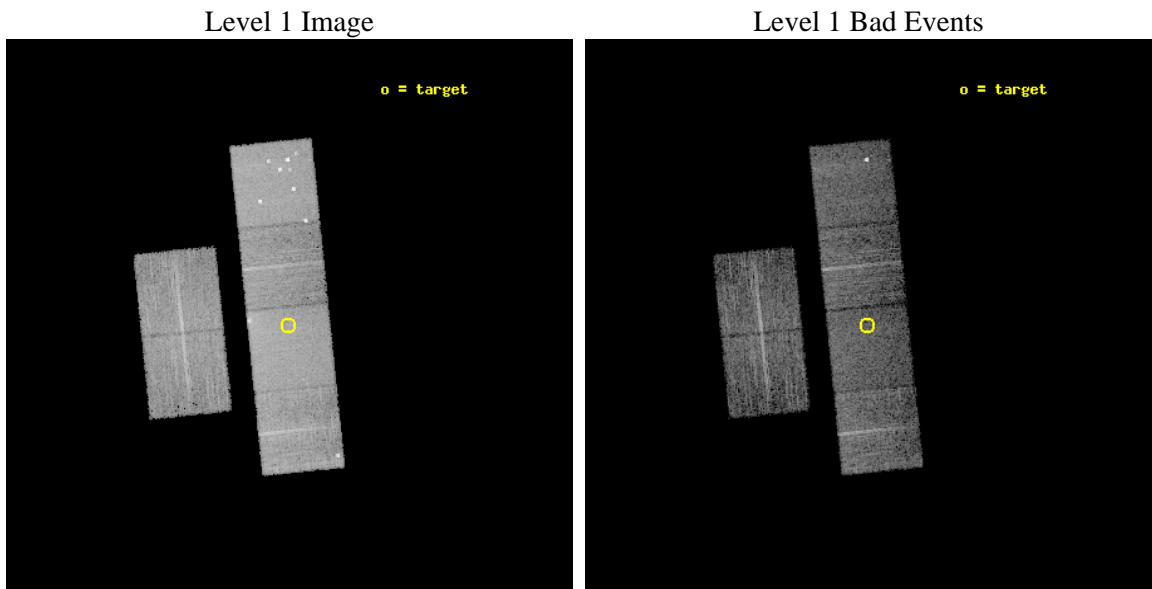
seq_num	900636	Sequence number
obs_id	8095	Observation id
title	The Duty Cycle of Supermassive Black Holes: X-raying Virgo	Proposa
observer	Prof Tommaso Treu	Principal investigator
object	1192	Source name
dtycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.375833	Observer's specified target RA [deg]
dec_targ	7.992778	Observer's specified target Dec [deg]
ra_nom	187.37367319202	Nominal RA [deg]
dec_nom	7.9972656134357	Nominal Dec [deg]
roll_nom	84.161885381489	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5158.3999808431	Sum of GTIs [s]
livetime	5093.0812142701	Livetime [s]
ontime2	5158.3999808431	Sum of GTIs [s]
ontime3	5158.3999808431	Sum of GTIs [s]
ontime5	5158.3999808431	Sum of GTIs [s]
ontime6	5158.3999808431	Sum of GTIs [s]
ontime7	5158.3999808431	Sum of GTIs [s]
ontime8	5151.9179299474	Sum of GTIs [s]
l2events	91833	Number of level 2 events



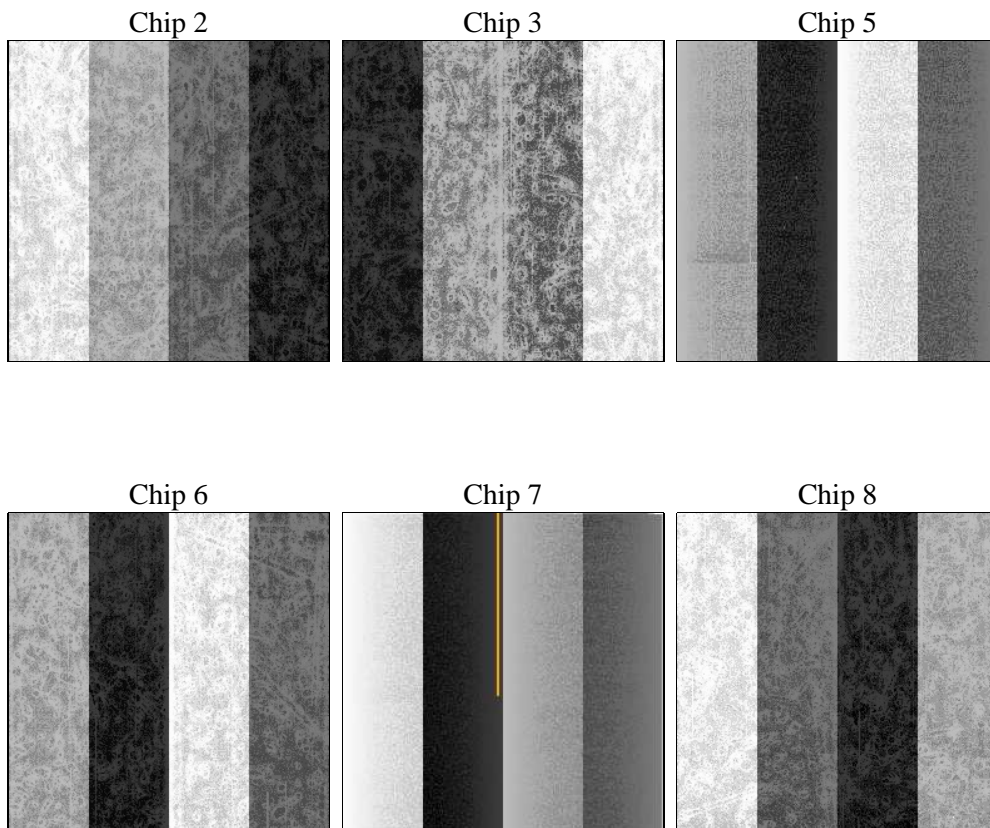
2 OBI

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	5158.3999808431	Sum of GTIs [s]
caldbver	4.4.9	 	ontime2	5158.3999808431	Sum of GTIs [s]
date	2012-05-10T08:35:01	Date and time of file creation	ontime3	5158.3999808431	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	5158.3999808431	Sum of GTIs [s]
			ontime6	5158.3999808431	Sum of GTIs [s]
			ontime7	5158.3999808431	Sum of GTIs [s]
			ontime8	5151.9179299474	Sum of GTIs [s]
			l1events	385596	Number of level 1 events

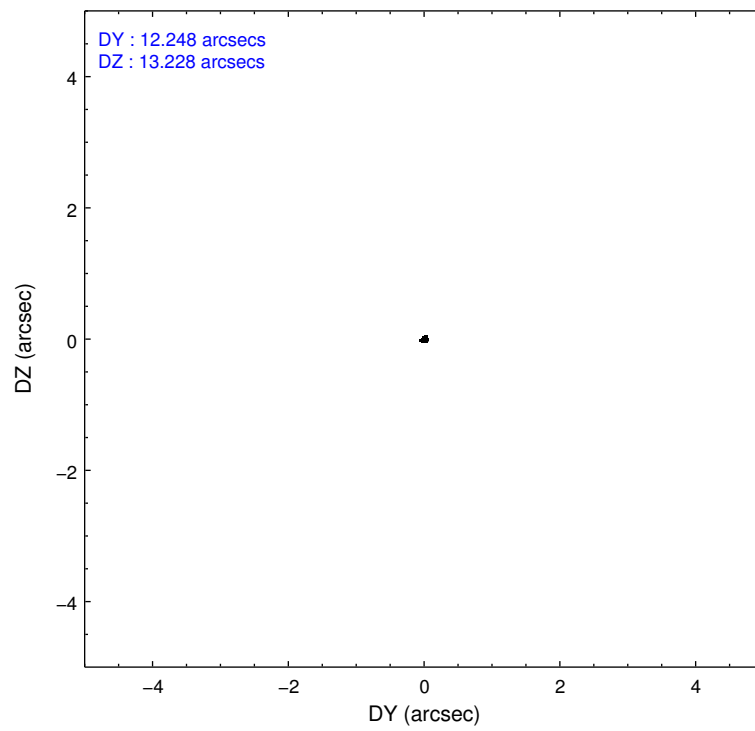
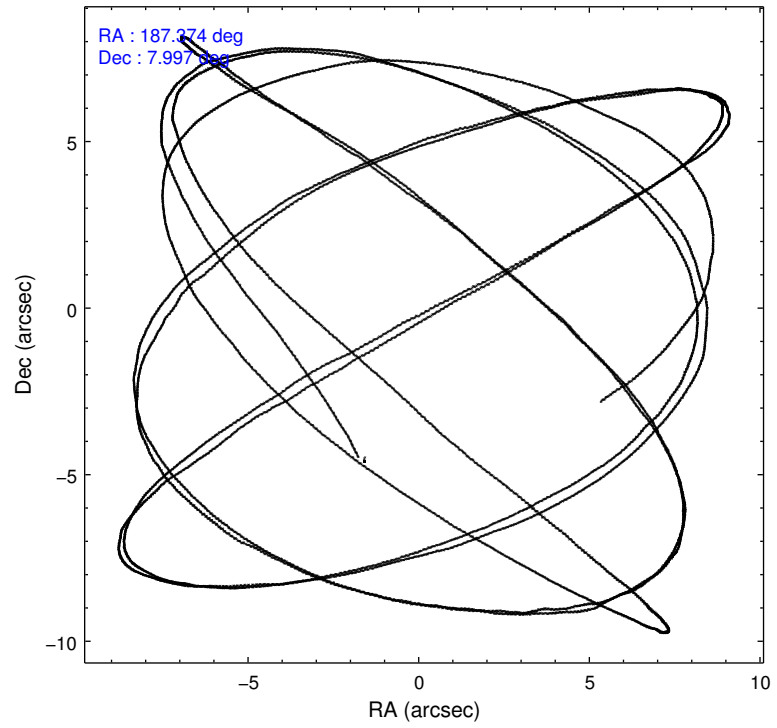
2.1.4 Events

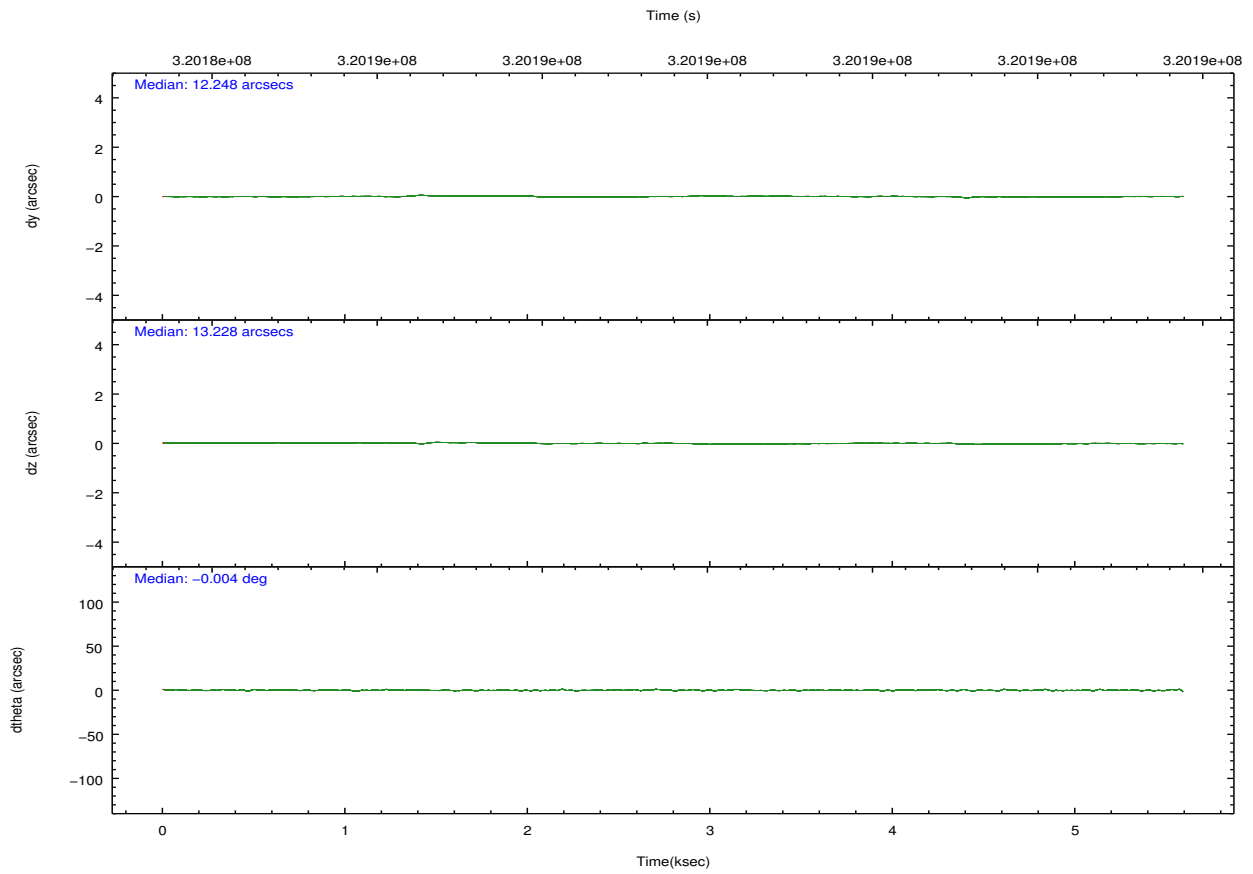
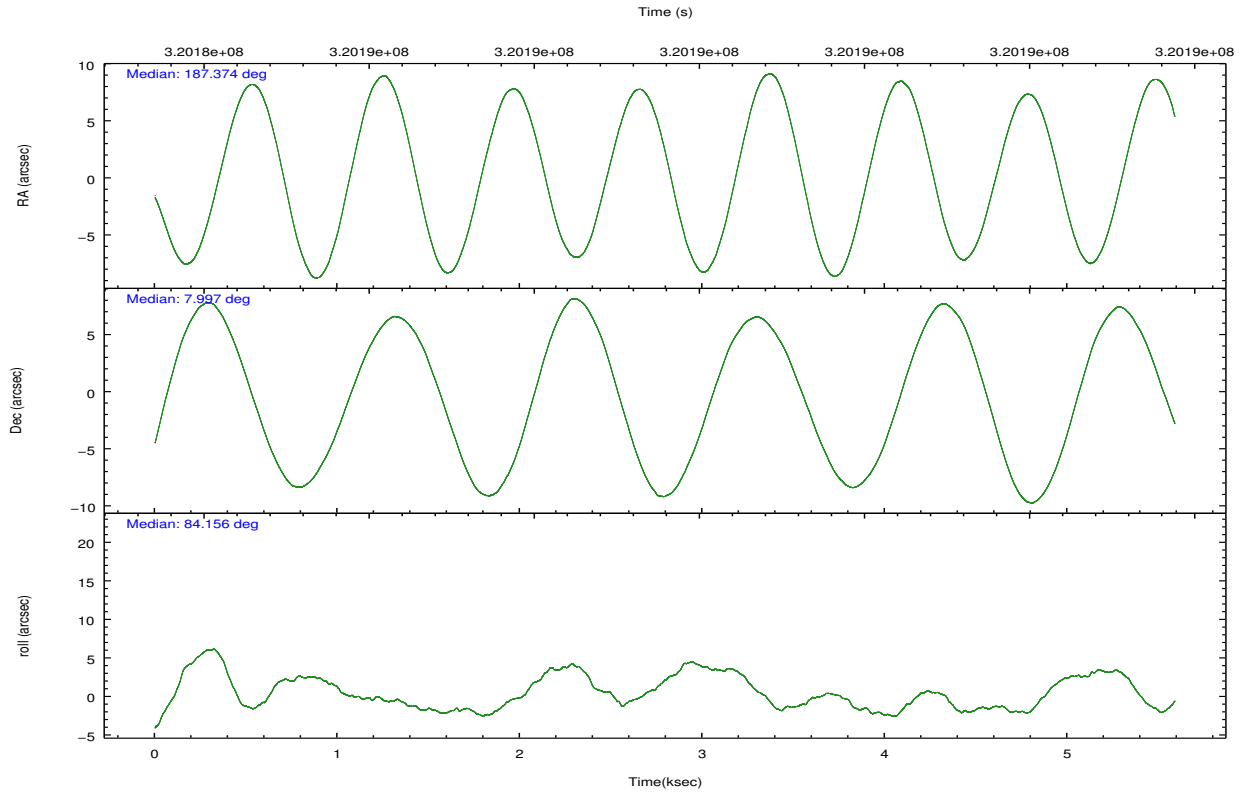
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	52716	50592	86654	51677	76553	67404	grade 0 events	2815	3045	7436	2963	4655	5620
rejected events	46396	44151	44256	44880	40669	52220		5%	6%	8%	5%	6%	8%
rejected %	88%	87%	51%	86%	53%	77%	grade 1 events	42	32	93	32	57	57
								0%	0%	0%	0%	0%	0%
							grade 2 events	1259	1176	11796	1426	7818	3275
								2%	2%	13%	2%	10%	4%
							grade 3 events	601	598	1401	583	3202	1364
								1%	1%	1%	1%	4%	2%
							grade 4 events	562	545	1226	588	3204	1320
								1%	1%	1%	1%	4%	1%
							grade 5 events	2057	2209	5305	2331	6422	3126
								3%	4%	6%	4%	8%	4%
							grade 6 events	1086	1079	20565	1243	17028	3610
								2%	2%	23%	2%	22%	5%
							grade 7 events	44294	41908	38832	42511	34167	49032
								84%	82%	44%	82%	44%	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	187.385338	187.3736731920166	CCD I2 on	O1	Y
[deg] Pointing Dec	7.972350	7.997265613435681	CCD I3 on	O2	Y
[deg] Pointing Roll	84.003628	84.16188538148866	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)	320185185.184000	320184645.47846	CCD S5 on	N	N
Observation start date	2008-02-23T20:18:40	2008-02-23T20:10:45	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	320190585.184000	320190822.12876	On-chip summing requested	N	N
Observation end date	2008-02-23T21:48:40	2008-02-23T21:53:42	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



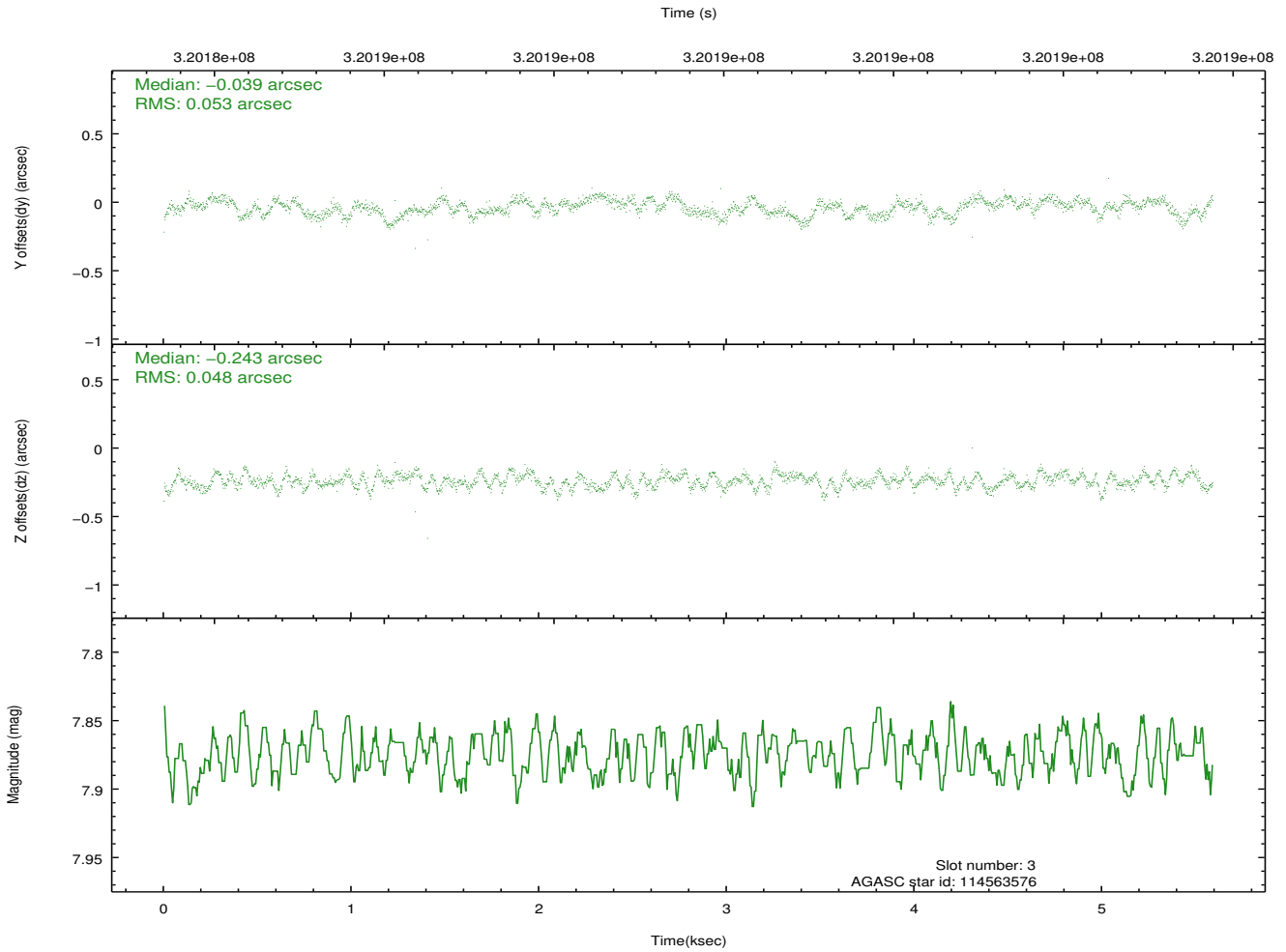
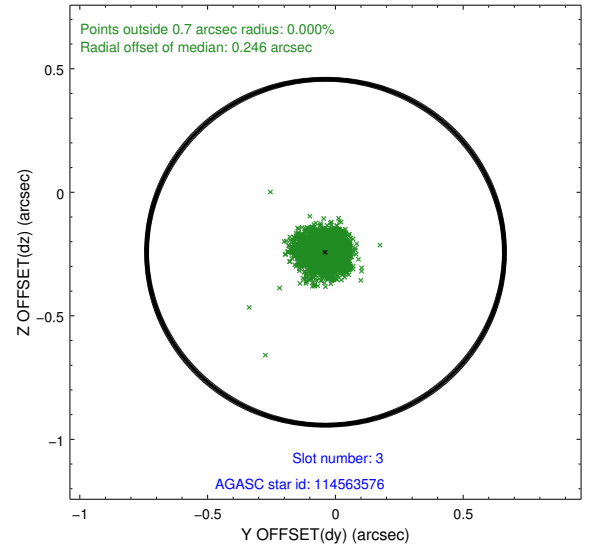
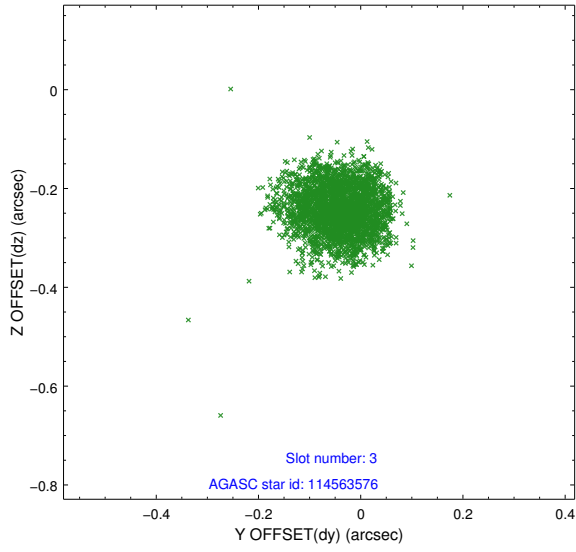


Slot Statistics

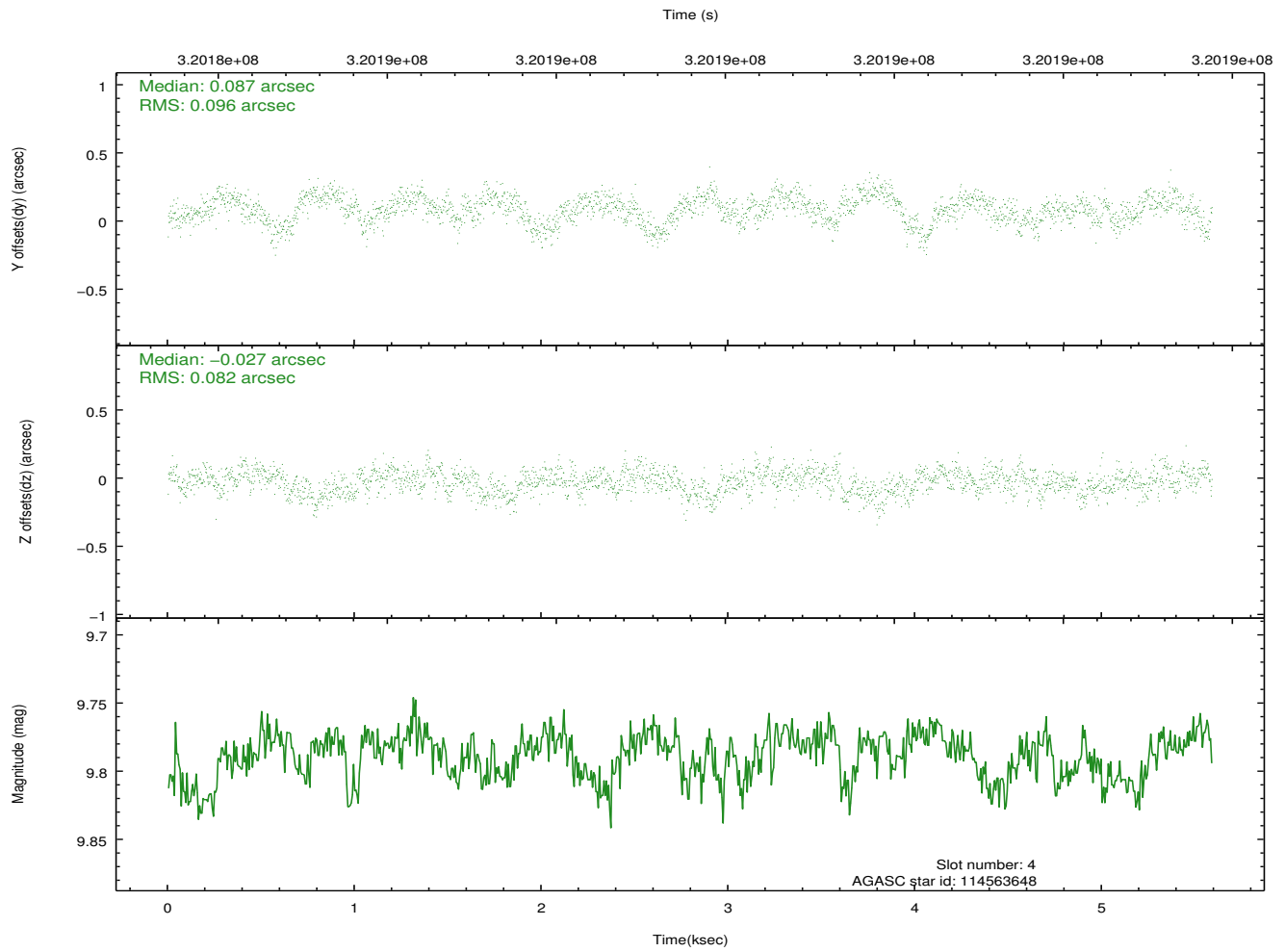
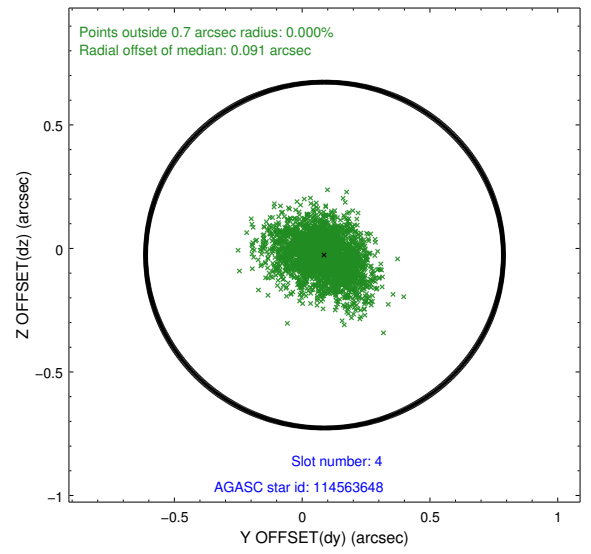
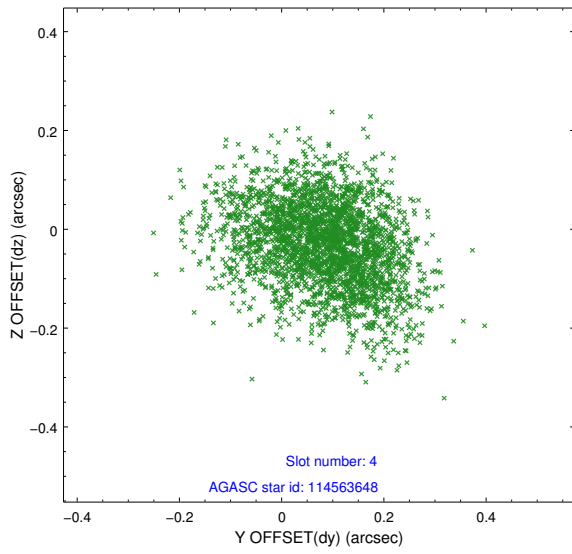
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1364	-0.025	-0.052	0.007	0.012	0.000000	0.000000	-765.17	-1734.61
1	FID	ACIS-S-4	7.20	1364	0.120	0.026	0.006	0.010	0.000000	0.000000	2147.76	172.83
2	FID	ACIS-S-5	7.23	1364	-0.126	0.035	0.007	0.010	0.000000	0.000000	-1816.74	167.74
3	GUIDE	114563576	7.88	2723	-0.039	-0.243	0.077	0.116	186.867039	8.012388	-49.34	1853.00
4	GUIDE	114563648	9.79	2718	0.087	-0.027	0.134	0.223	187.009208	7.938475	-261.14	1321.77
5	GUIDE	114565064	9.98	2719	0.161	0.138	0.150	0.248	187.898151	7.788605	-465.99	-1887.43
6	GUIDE	114565400	6.31	2727	-0.295	-0.285	0.070	0.121	186.925333	8.610343	2113.03	1867.60
7	GUIDE	114563056	9.87	2725	0.083	0.417	0.183	0.291	188.043188	7.639178	-945.46	-2458.32

2.4 Star Slots

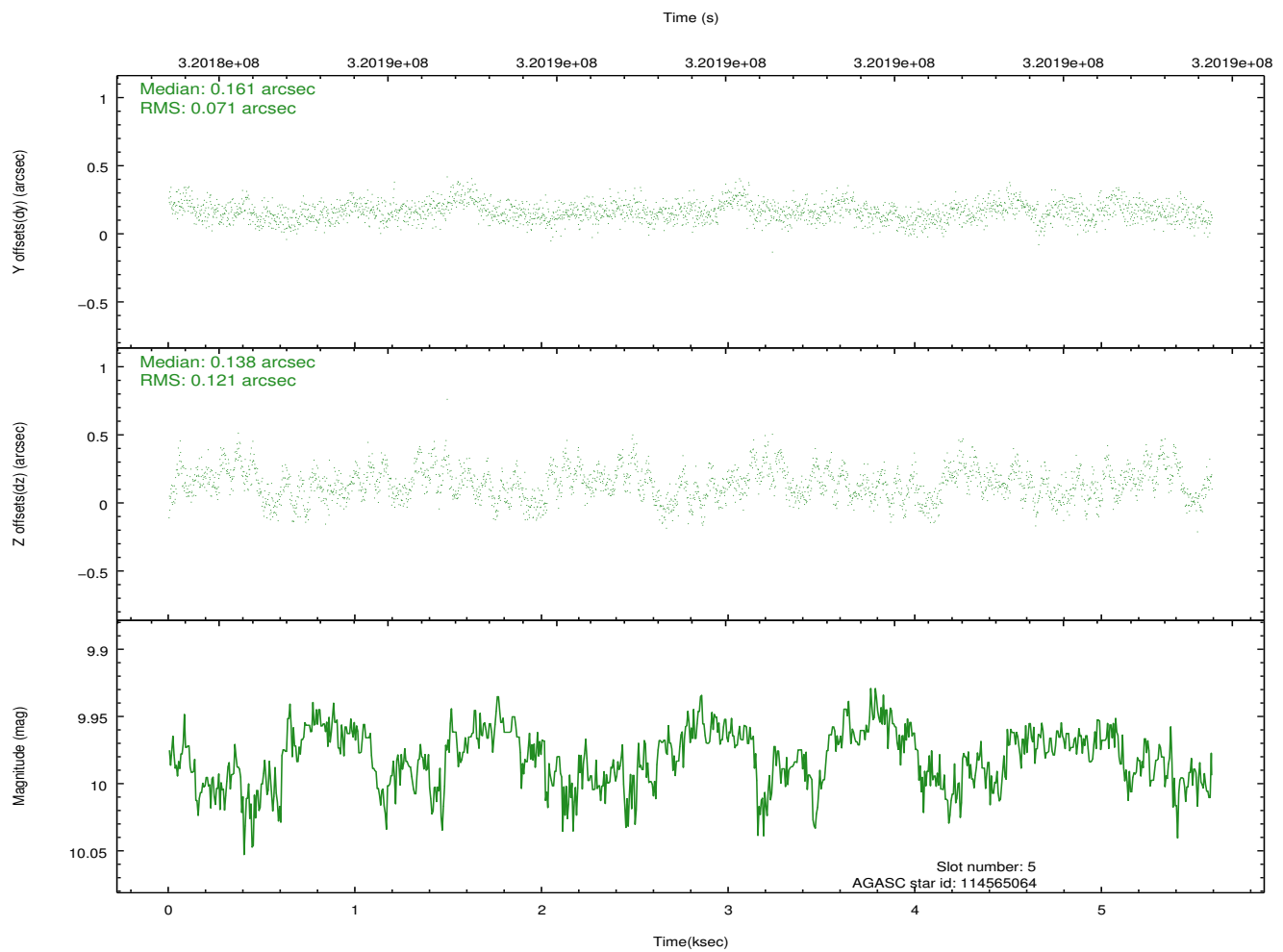
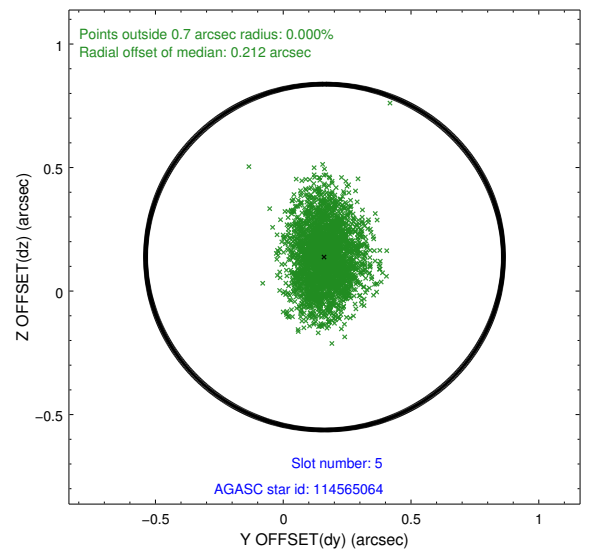
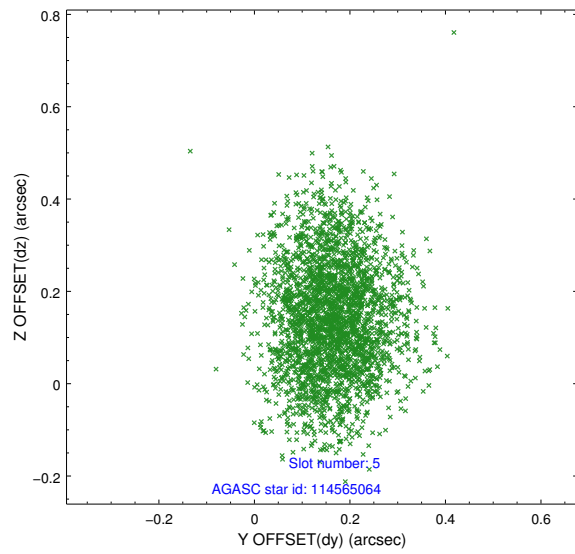
2.4.1 Slot 3



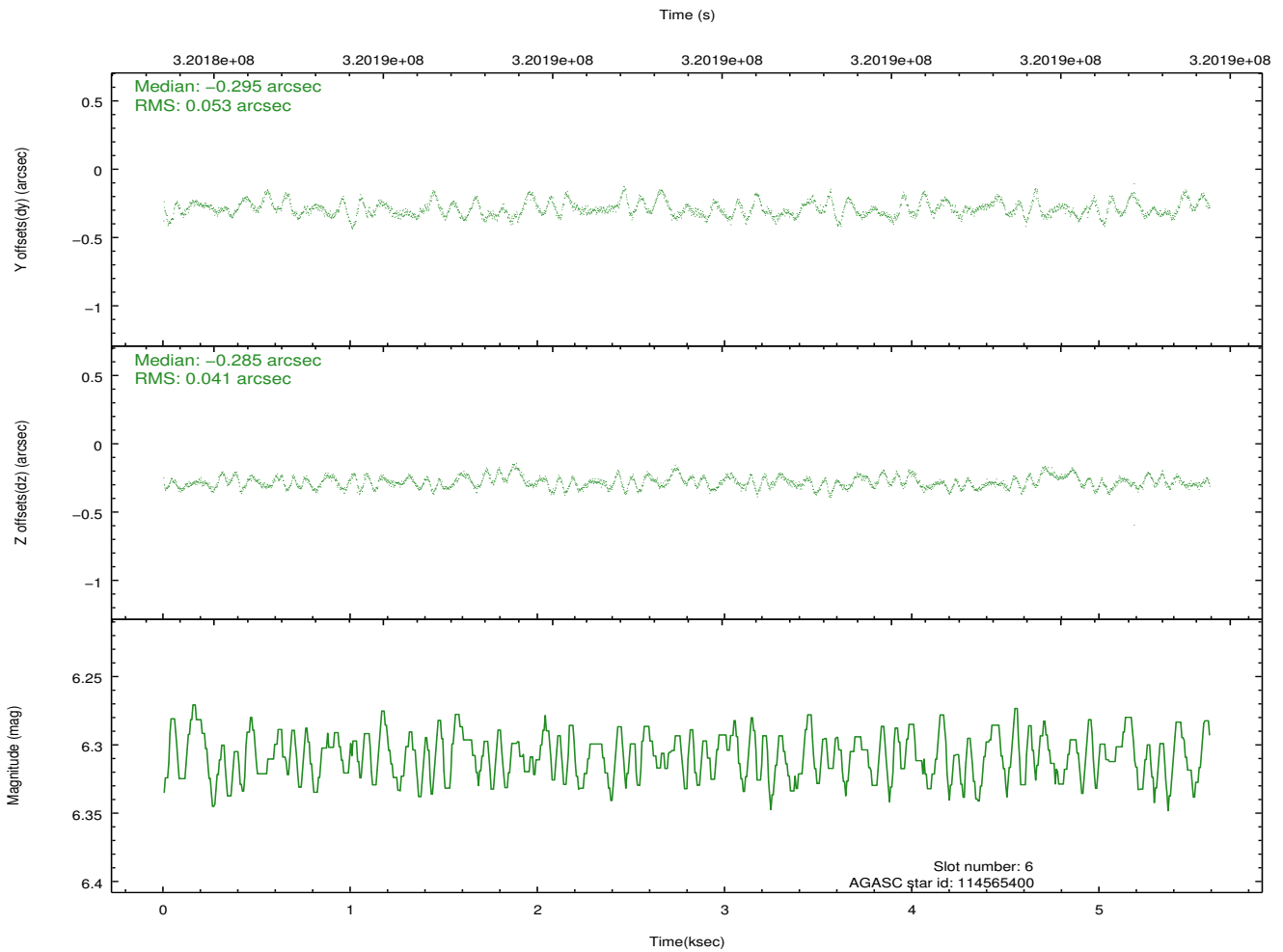
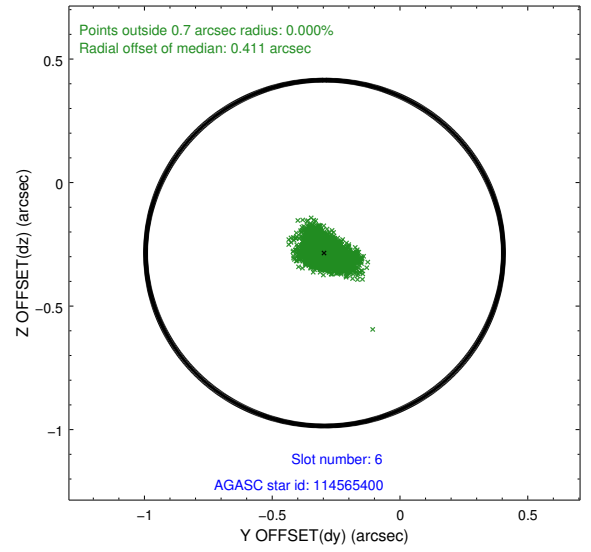
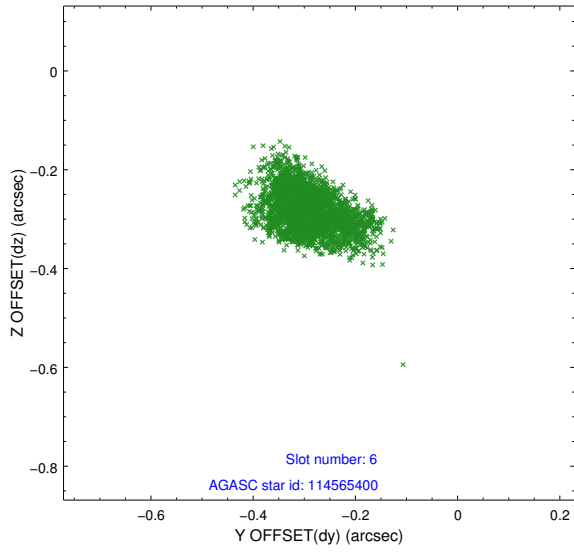
2.4.2 Slot 4



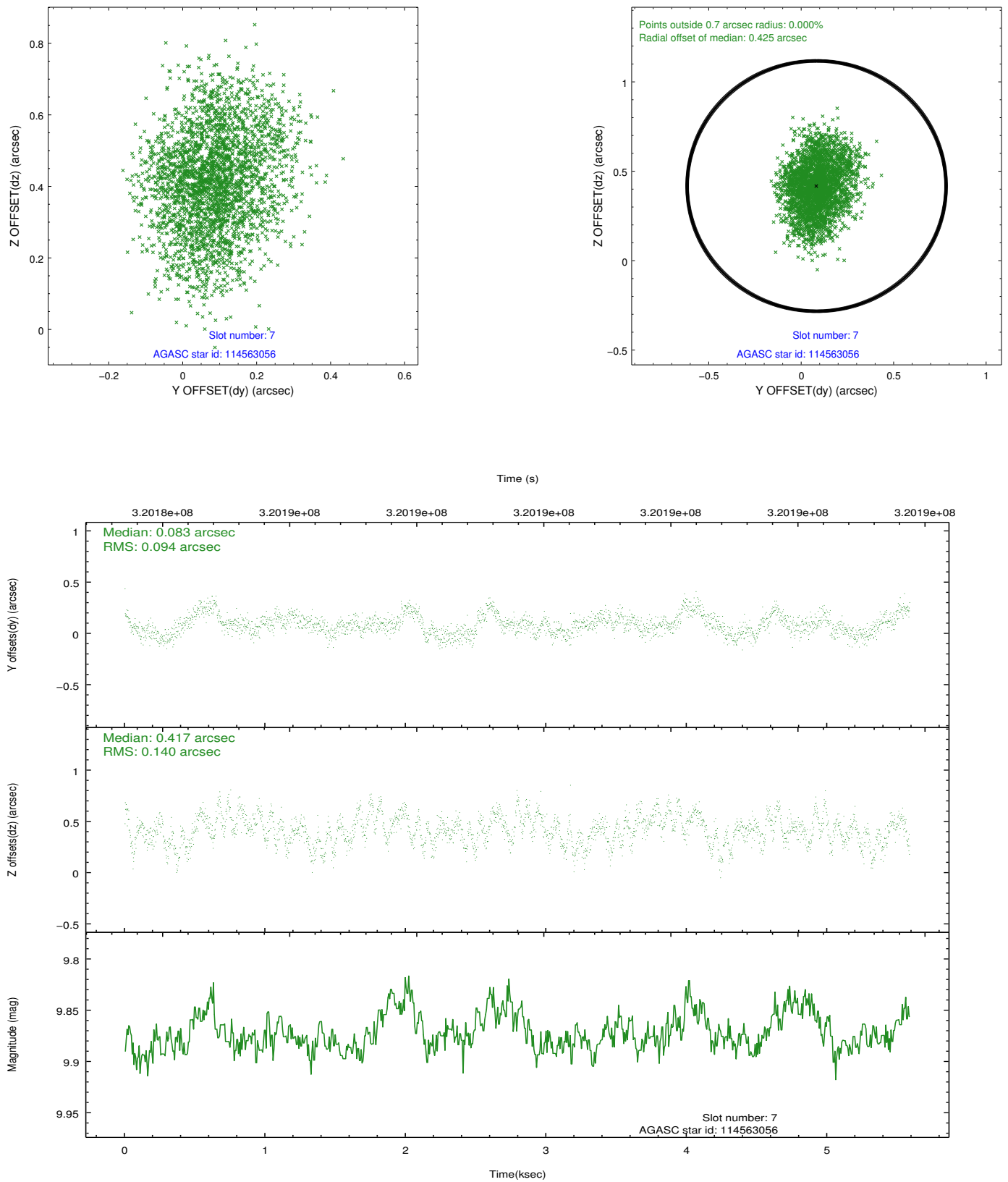
2.4.3 Slot 5



2.4.4 Slot 6

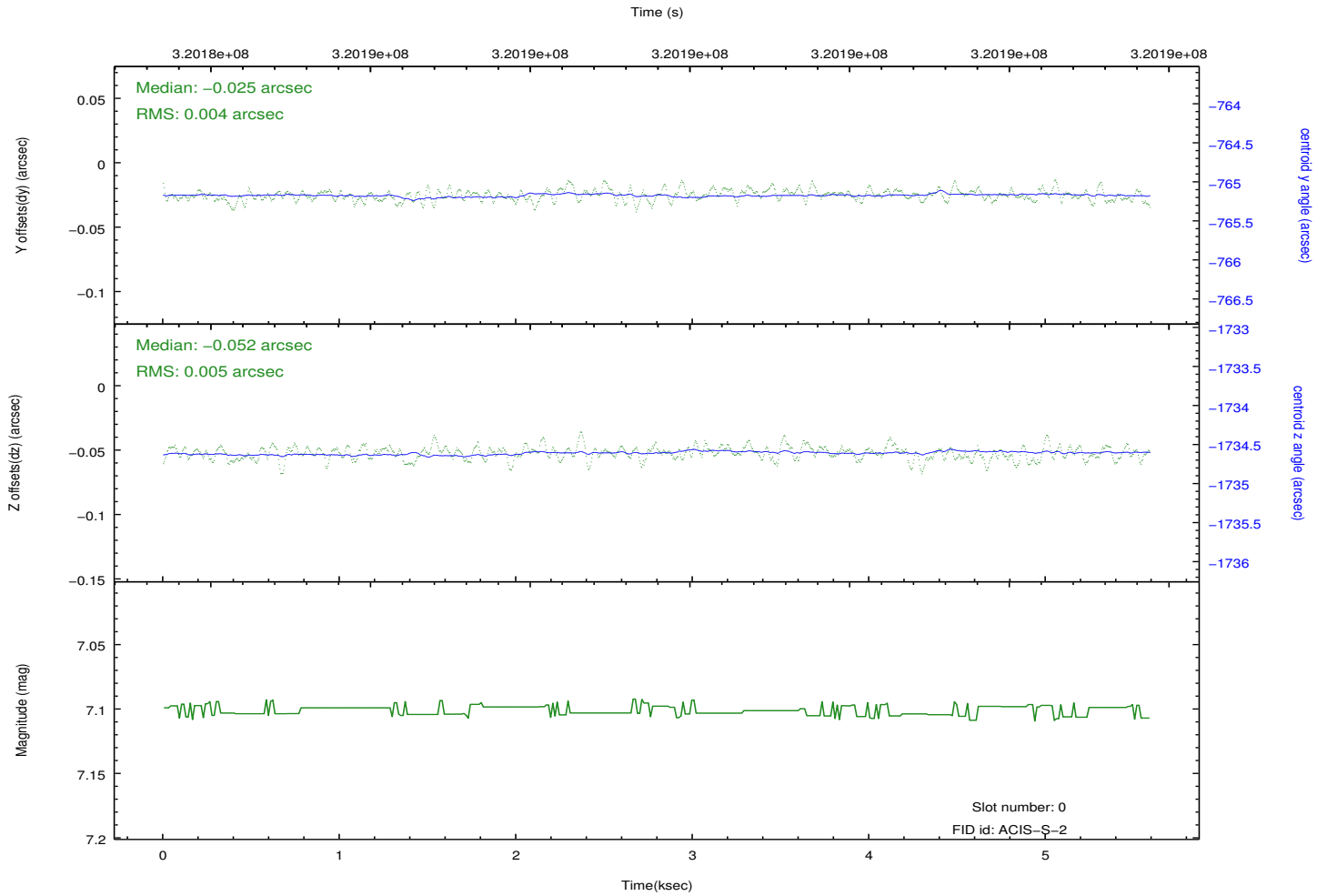
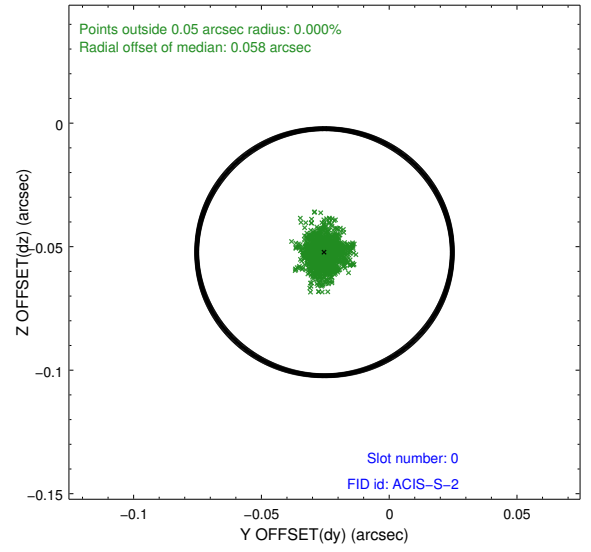
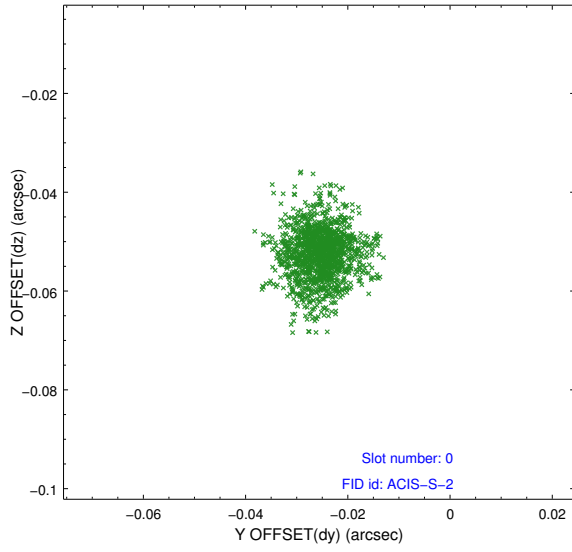


2.4.5 Slot 7

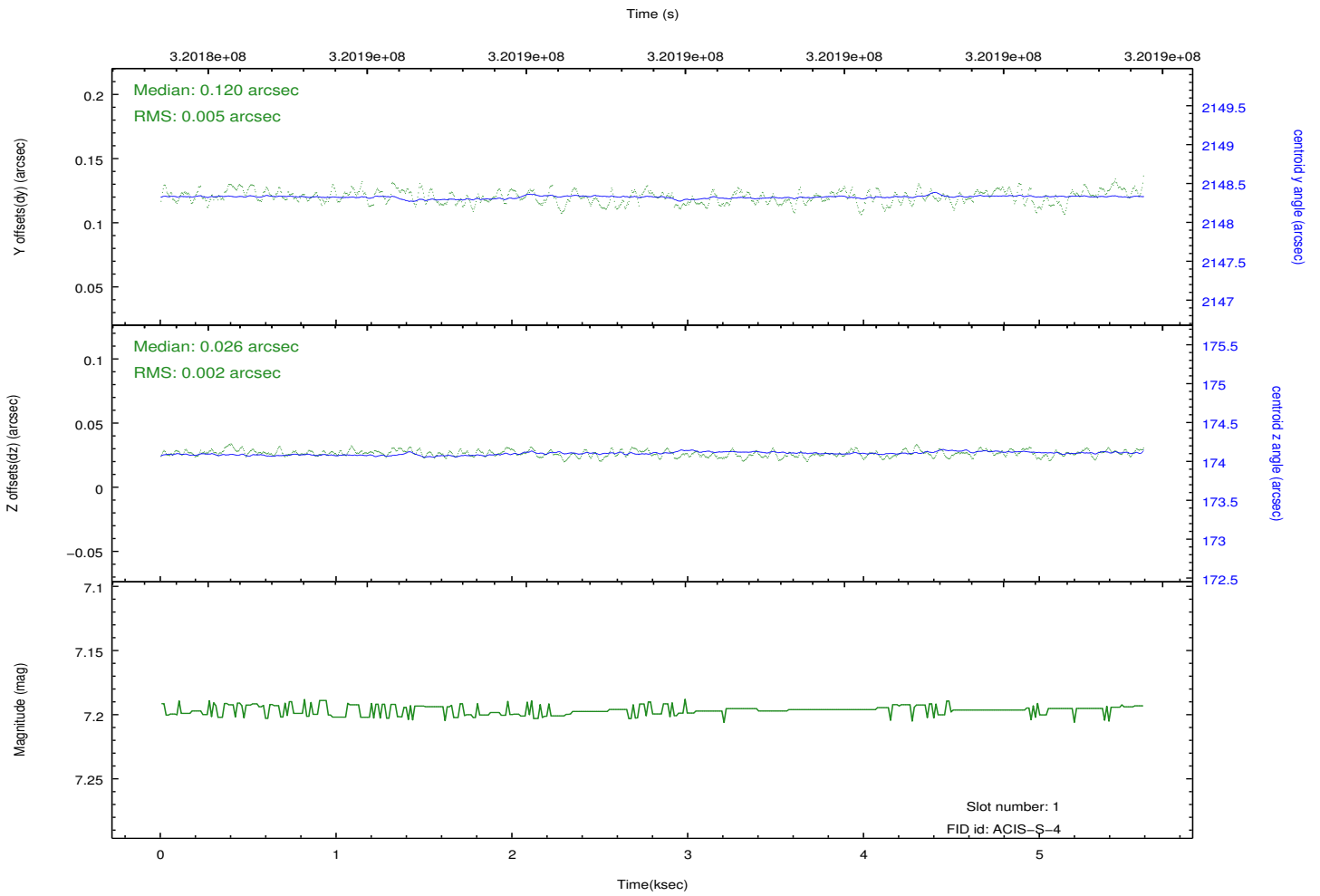
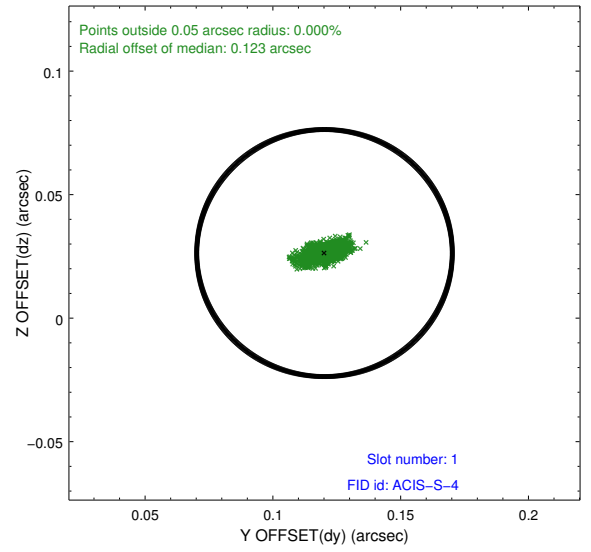
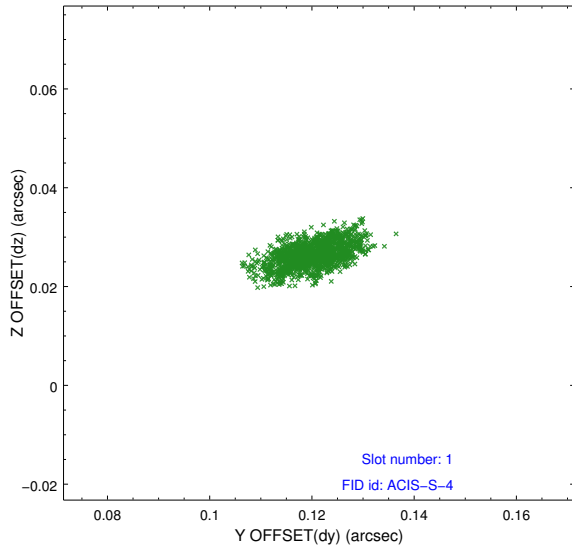


2.5 FID Slots

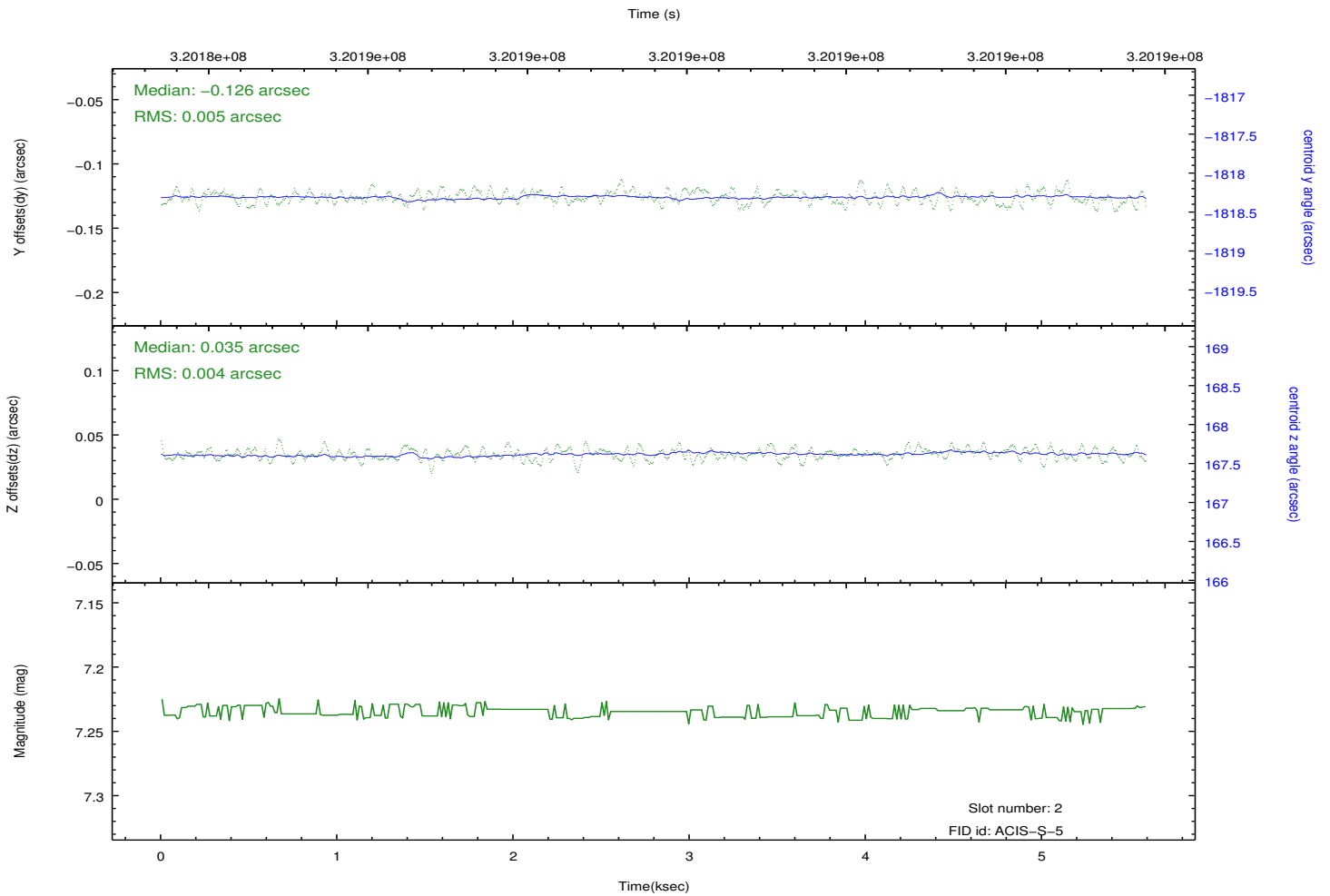
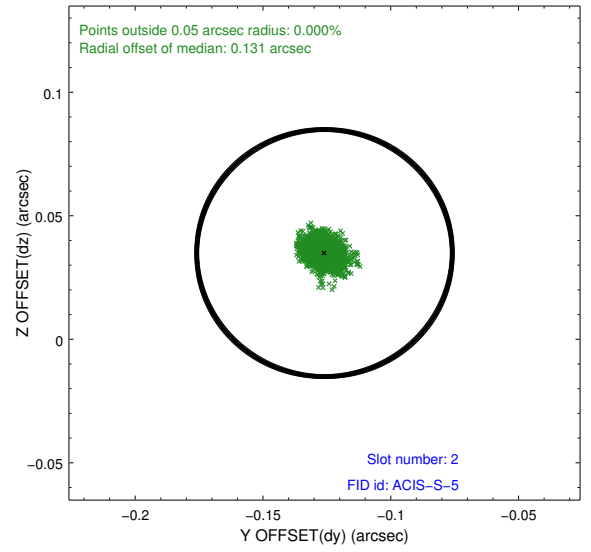
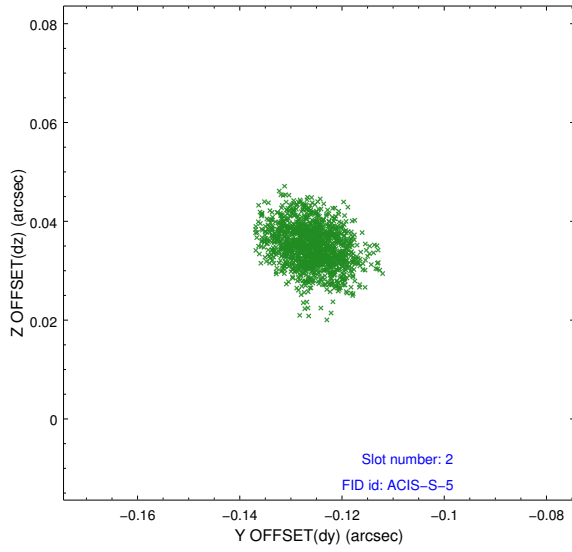
2.5.1 Slot 0



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