

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 11358 - L2 Version 2
Chandra X-Ray Center

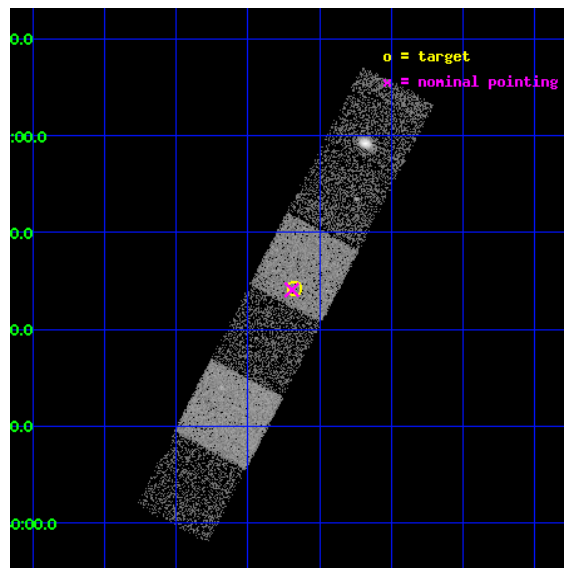
L2 Processing Date : Jun 18 2012

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1 Front

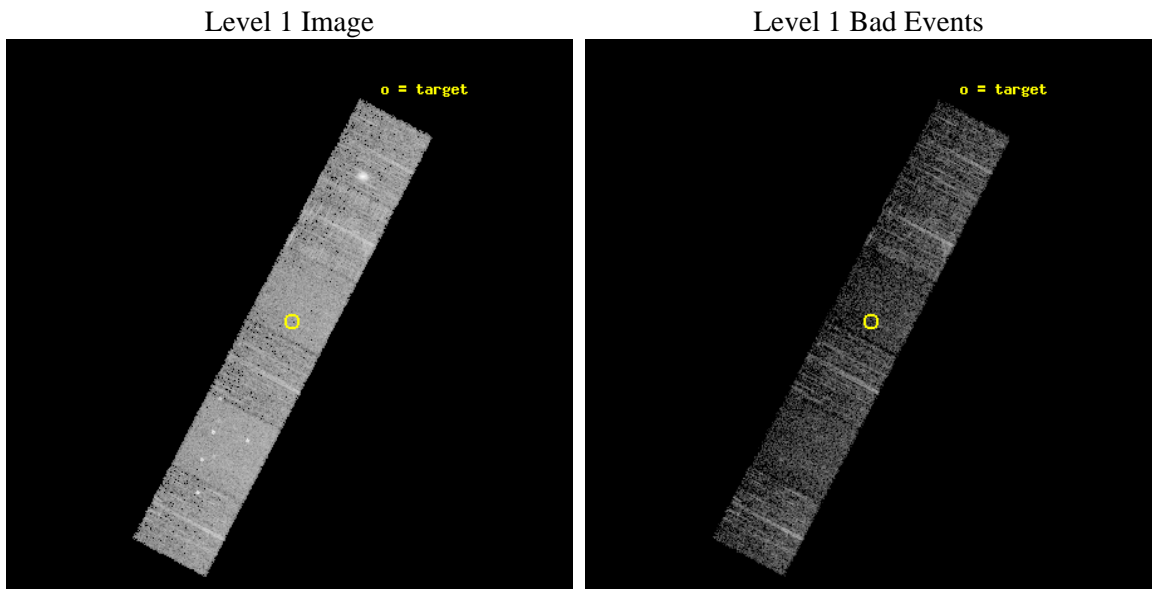
seq_num	600877	Sequence number
obs_id	11358	Observation id
title	Accretion onto nuclear black holes in early type galaxies: comparing field vs. clusters	Proposal title
observer	Elena Gallo	Principal investigator
object	PGC135659	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	40.7942	Observer's specified target RA [deg]
dec_targ	-0.2627	Observer's specified target Dec [deg]
ra_nom	40.798408559988	Nominal RA [deg]
dec_nom	-0.26526808165192	Nominal Dec [deg]
roll_nom	297.53925387306	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2735.4767640829	Sum of GTIs [s]
livetime	2700.8385101897	Livetime [s]
ontime4	2735.5178040862	Sum of GTIs [s]
ontime5	2735.4357240796	Sum of GTIs [s]
ontime6	2735.3946840763	Sum of GTIs [s]
ontime7	2735.4767640829	Sum of GTIs [s]
ontime8	2732.1126437187	Sum of GTIs [s]
ontime9	2735.3126040697	Sum of GTIs [s]
l2events	40084	Number of level 2 events



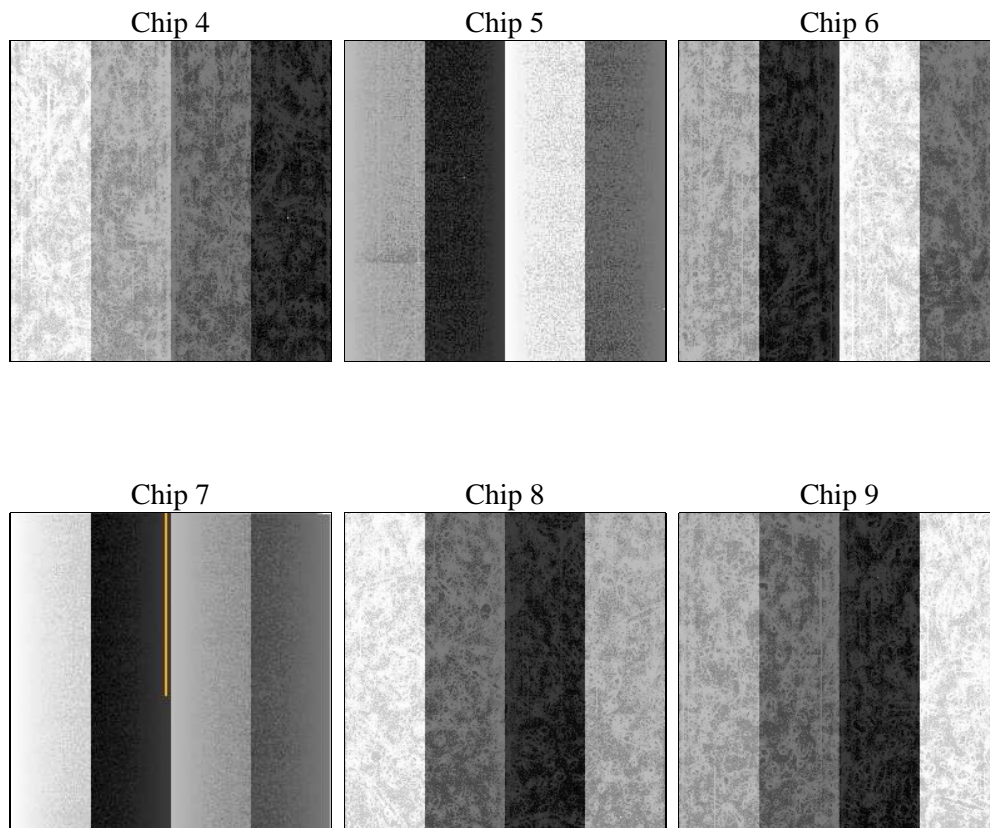
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2700.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	2735.4767640829	Sum of GTIs [s]
caldbver	4.4.10	 	ontime4	2735.5178040862	Sum of GTIs [s]
date	2012-06-18T19:18:21	Date and time of file creation	ontime5	2735.4357240796	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	2735.3946840763	Sum of GTIs [s]
			ontime7	2735.4767640829	Sum of GTIs [s]
			ontime8	2732.1126437187	Sum of GTIs [s]
			ontime9	2735.3126040697	Sum of GTIs [s]
			l1events	172661	Number of level 1 events

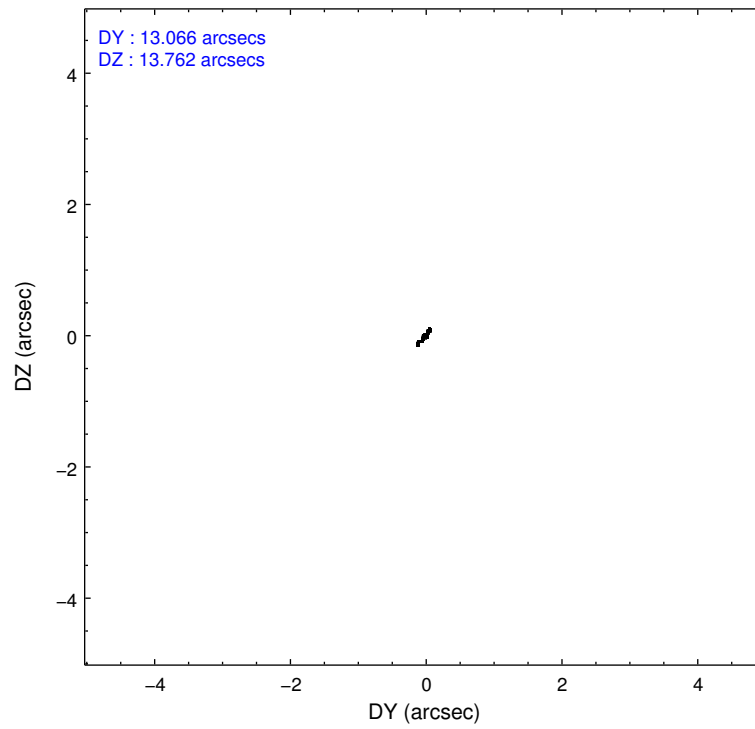
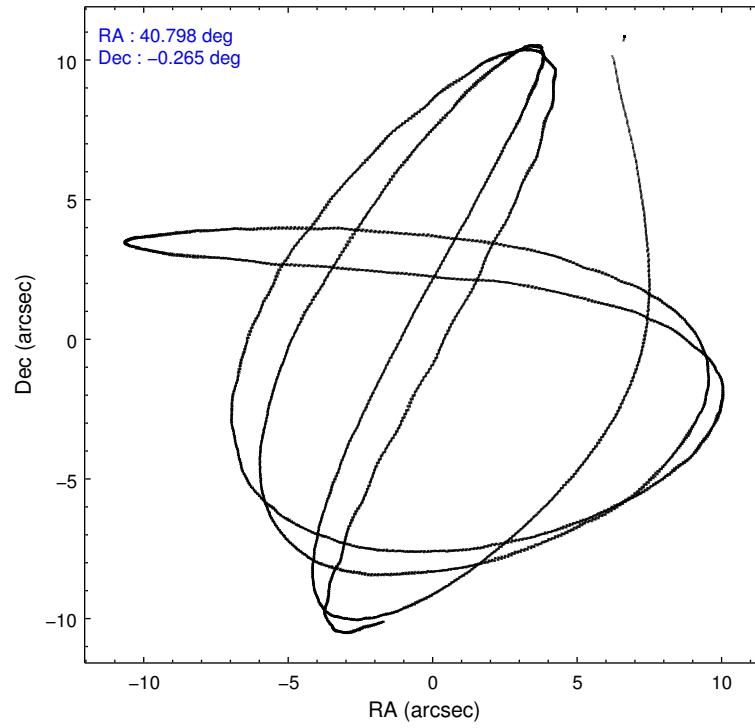
2.1.4 Events

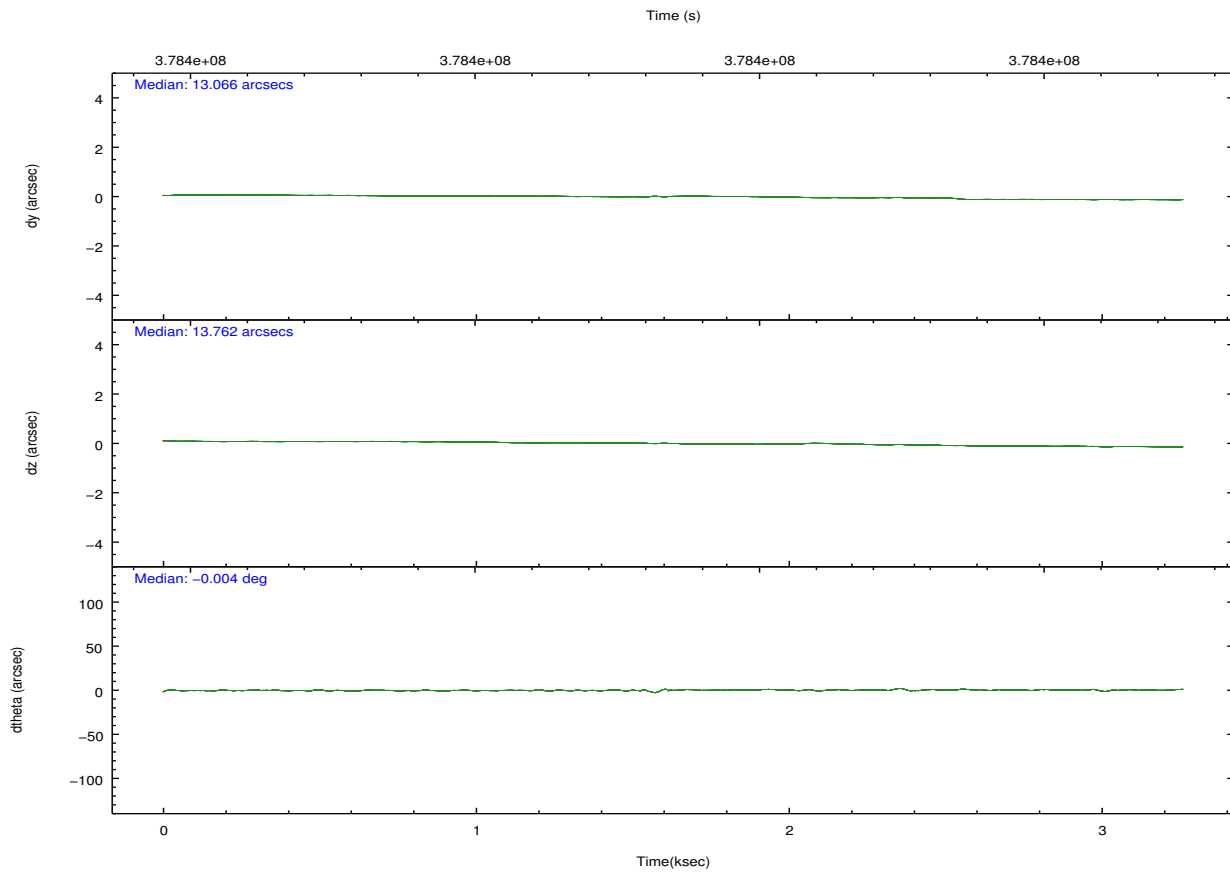
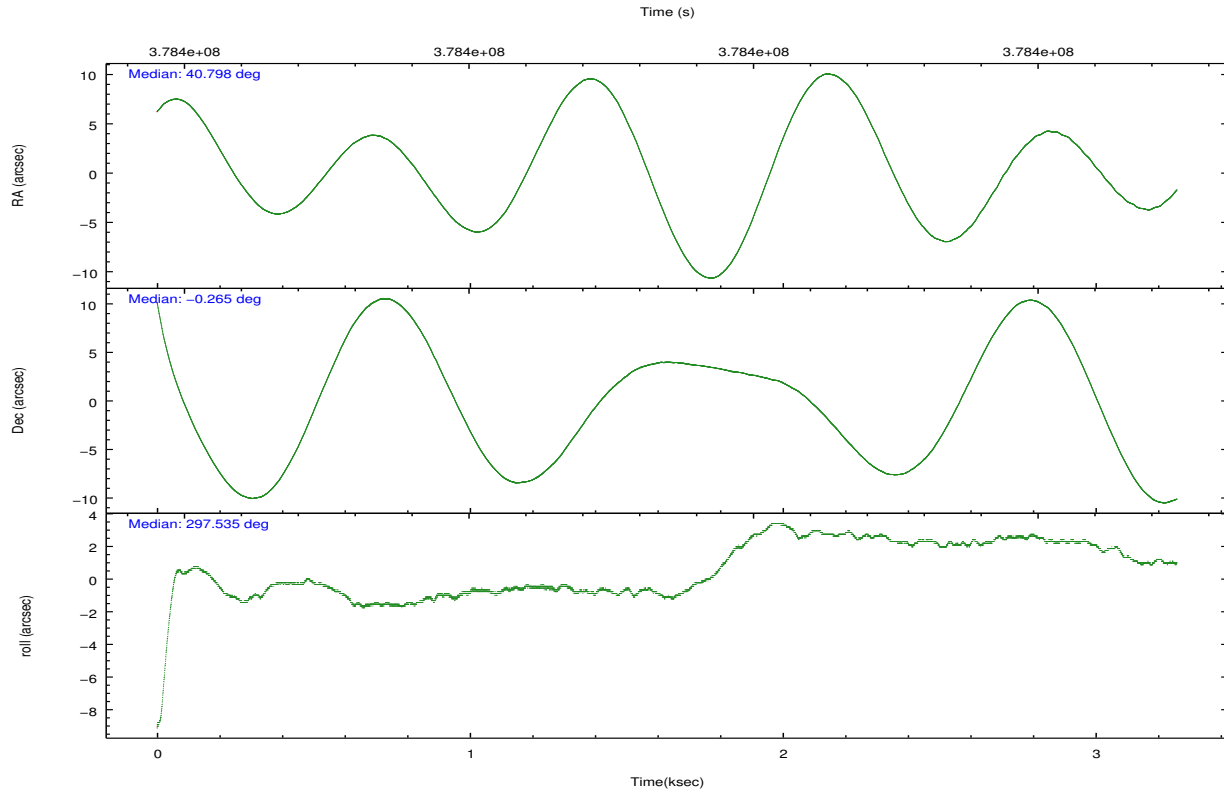
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	27022	34571	23906	27501	31884	27777	grade 0 events	1376	2572	870	1178	2120	3858
rejected events	24001	16939	21400	15055	24344	21701		5%	7%	3%	4%	6%	13%
rejected %	88%	48%	89%	54%	76%	78%	grade 1 events	28	140	8	36	22	34
								0%	0%	0%	0%	0%	0%
							grade 2 events	664	4948	553	2479	1922	867
								2%	14%	2%	9%	6%	3%
							grade 3 events	296	717	265	1104	710	370
								1%	2%	1%	4%	2%	1%
							grade 4 events	242	682	280	1088	636	350
								0%	1%	1%	3%	1%	1%
							grade 5 events	942	2668	957	2839	1384	1128
								3%	7%	4%	10%	4%	4%
							grade 6 events	451	8746	548	6631	2183	644
								1%	25%	2%	24%	6%	2%
							grade 7 events	23023	14098	20425	12146	22907	20526
								85%	40%	85%	44%	71%	73%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	40.775097	40.79840855998833	CCD I2 on	N	N
[deg] Pointing Dec	-0.250816	-0.2652680816519195	CCD I3 on	N	N
[deg] Pointing Roll	297.382553	297.5392538730595	CCD S0 on	O1	Y
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	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	Y	Y
[s] Observation start time (MET)	378396623.184000	378395285.27174	CCD S5 on	O2	Y
Observation start date	2009-12-28T14:09:17	2009-12-28T13:48:05	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	378399323.184000	378400158.63448	On-chip summing requested	N	N
Observation end date	2009-12-28T14:54:17	2009-12-28T15:09:18	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



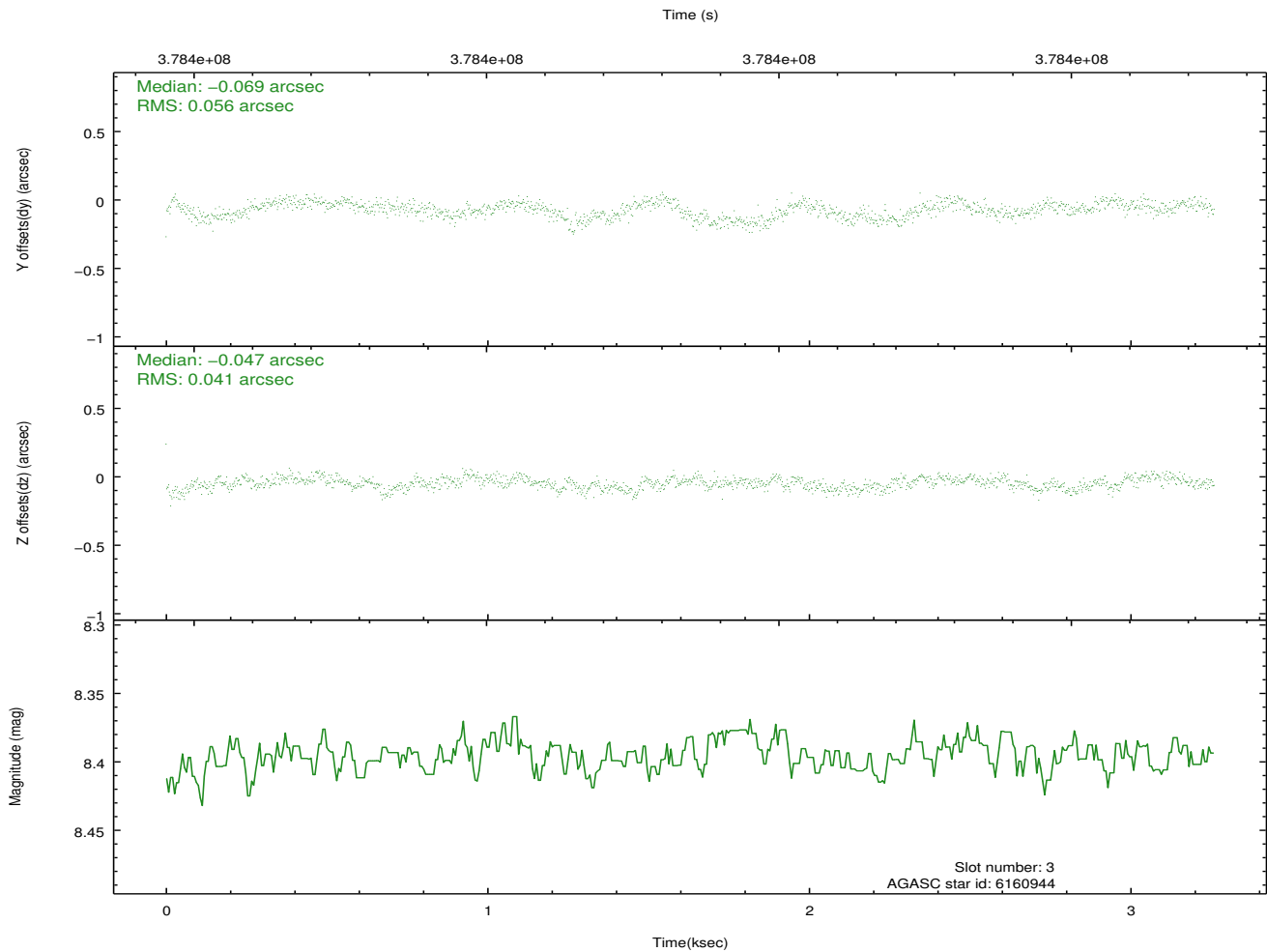
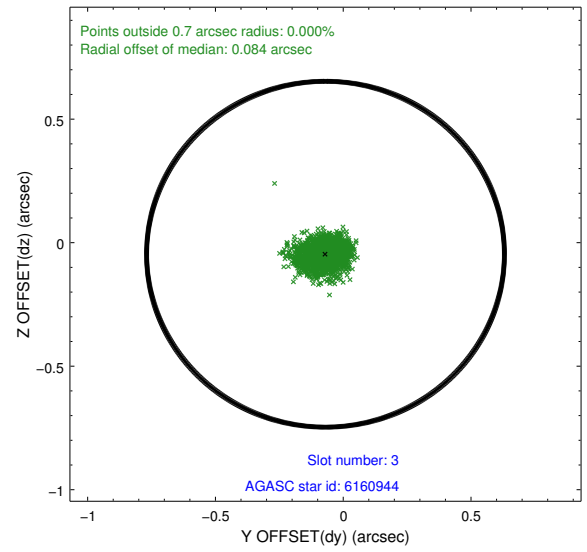
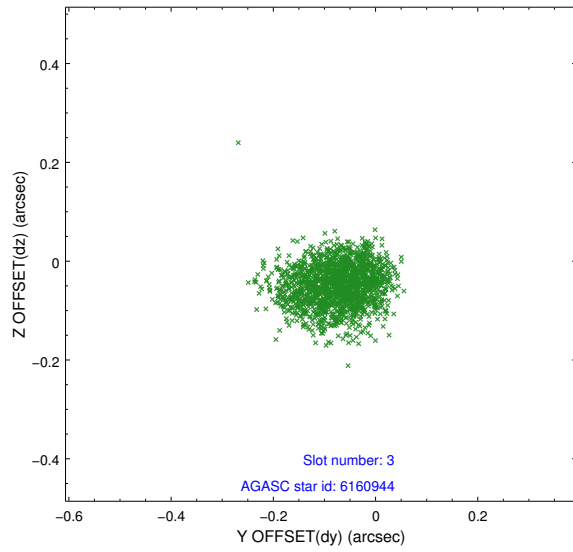


Slot Statistics

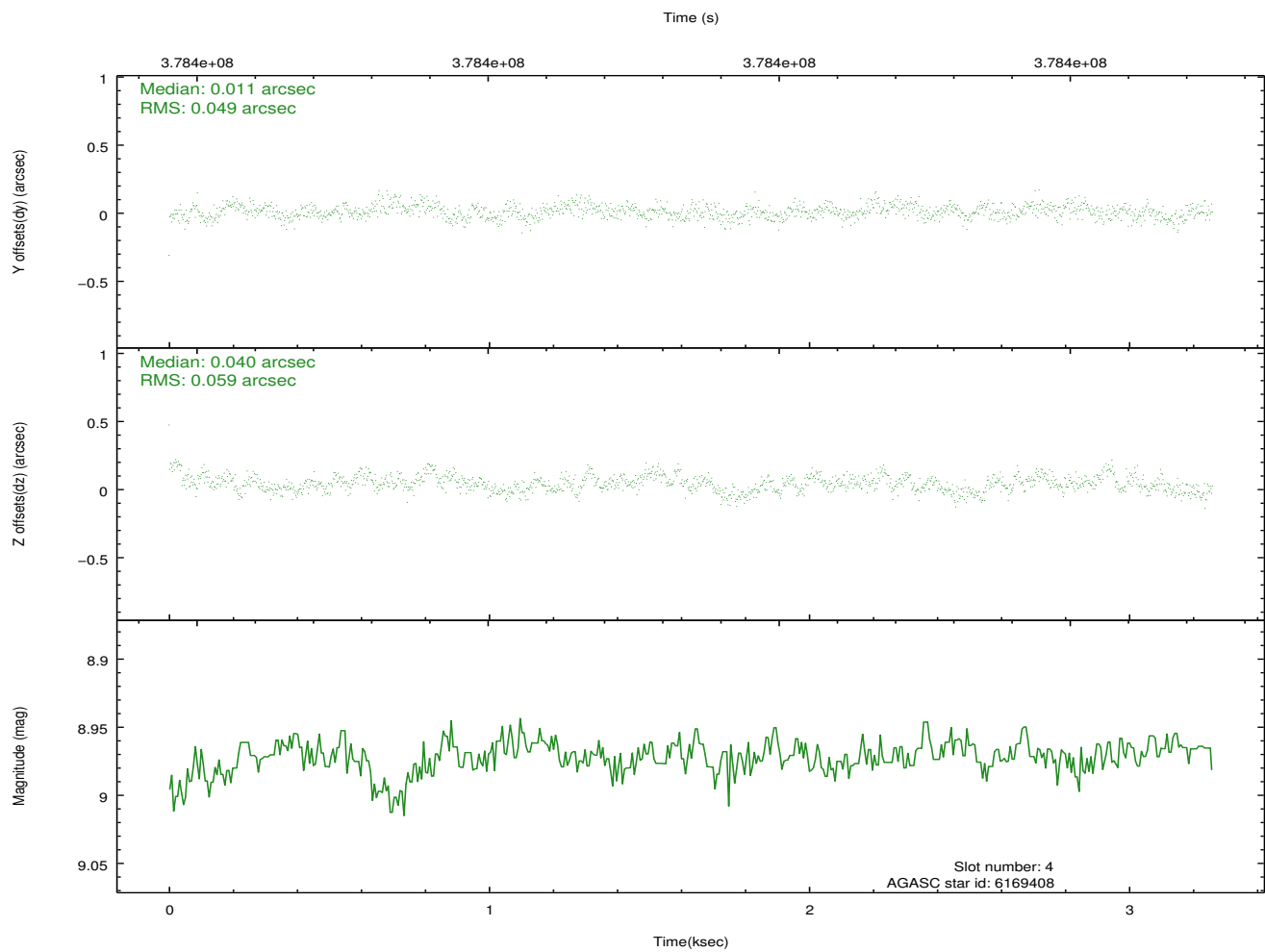
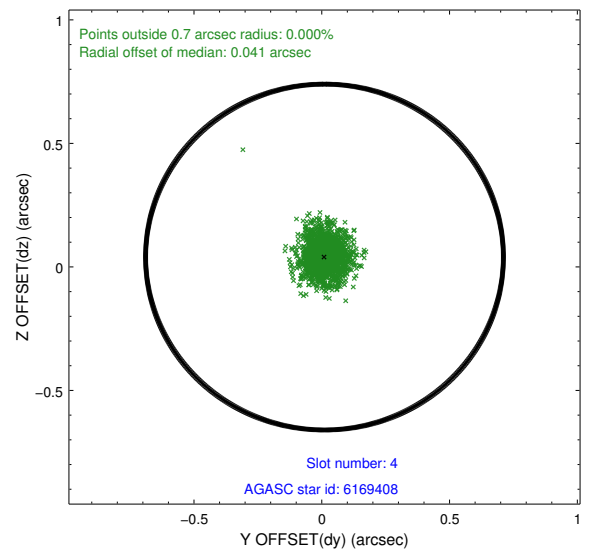
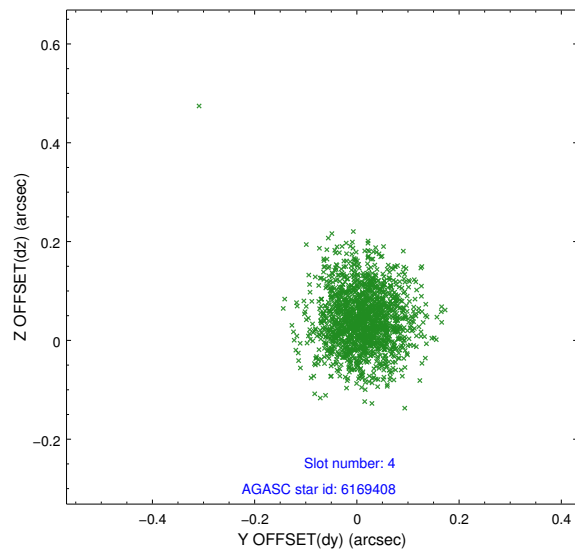
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.85	796	-0.025	-0.023	0.007	0.012	0.000000	0.000000	-765.99	-1735.12
1	FID	ACIS-S-4	6.92	796	0.132	0.019	0.007	0.015	0.000000	0.000000	2146.55	171.38
2	FID	ACIS-S-5	6.96	796	-0.138	0.014	0.006	0.011	0.000000	0.000000	-1816.45	167.27
3	GUIDE	6160944	8.40	1591	-0.069	-0.047	0.074	0.116	40.821496	0.087247	-1004.11	708.17
4	GUIDE	6169408	8.97	1589	0.011	0.040	0.080	0.132	40.937839	0.210390	-1205.78	1284.11
5	GUIDE	615907528	7.75	1591	-0.066	0.090	0.064	0.098	41.252710	-0.191636	600.46	1625.80
6	GUIDE	615909768	9.05	1591	0.063	-0.134	0.097	0.154	40.904100	-0.344520	513.39	257.90
7	GUIDE	615913552	8.71	1589	0.061	0.050	0.087	0.144	41.235237	-0.003650	-28.07	1880.48

2.4 Star Slots

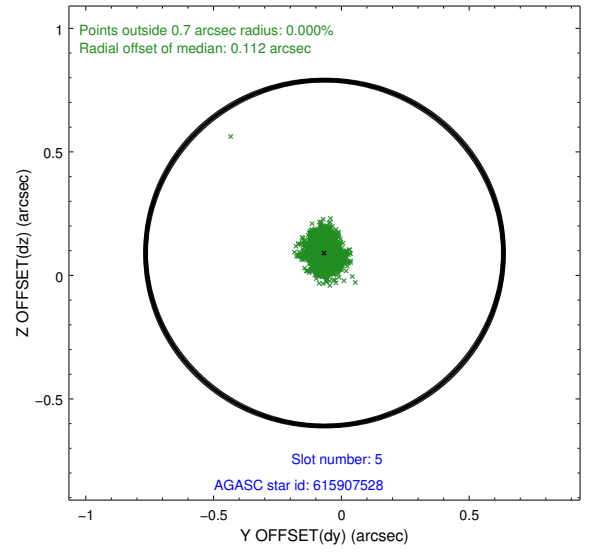
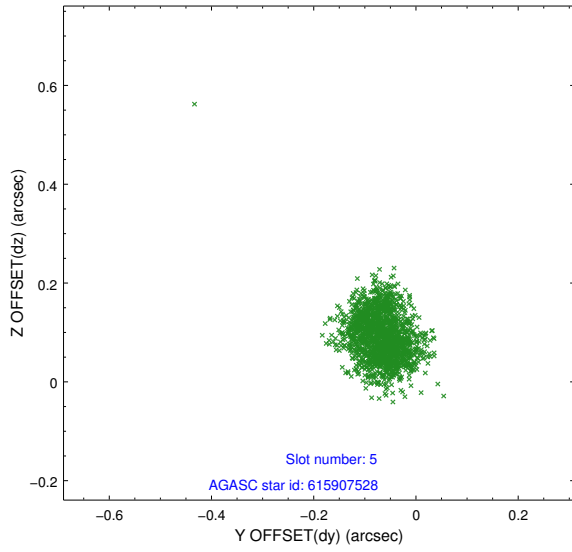
2.4.1 Slot 3



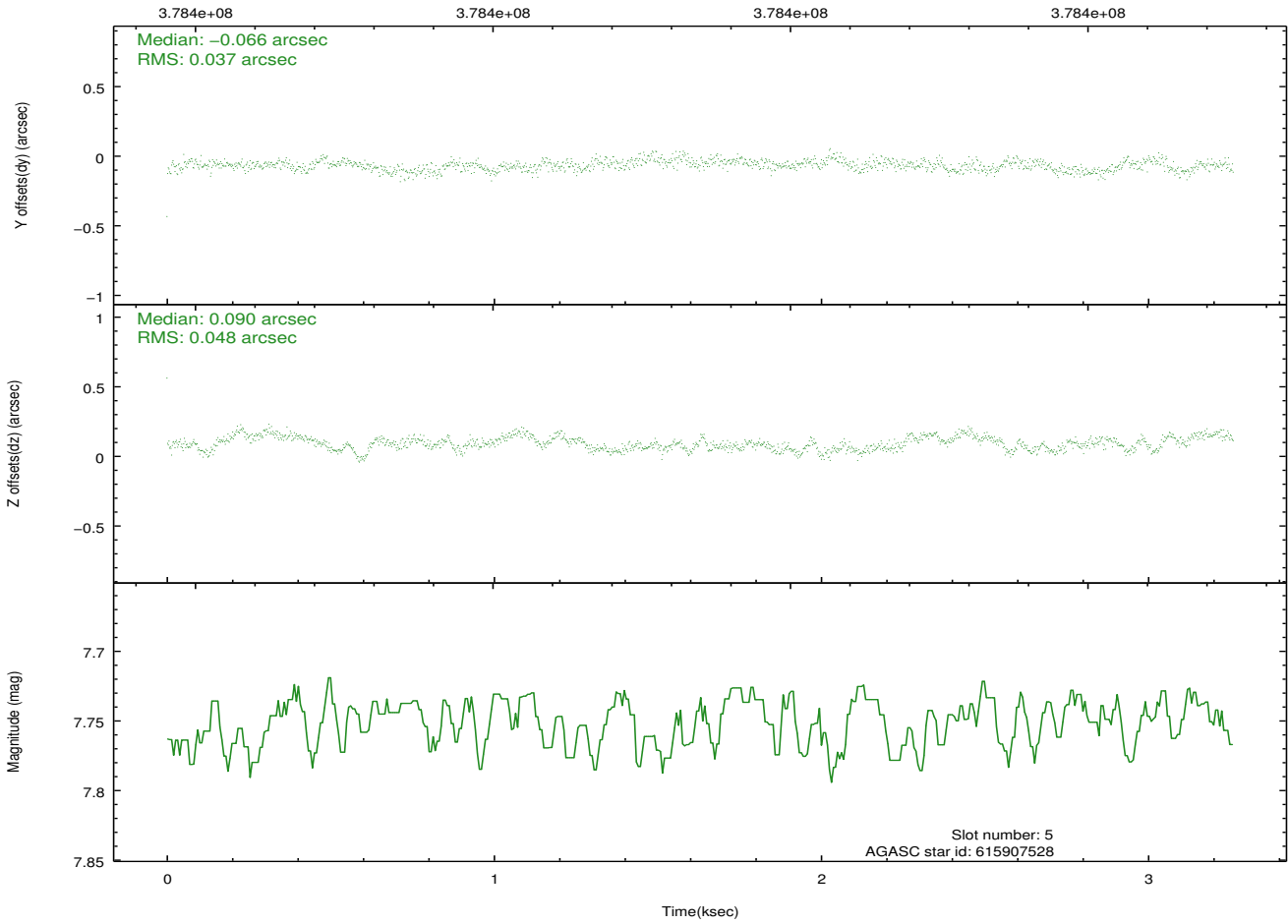
2.4.2 Slot 4



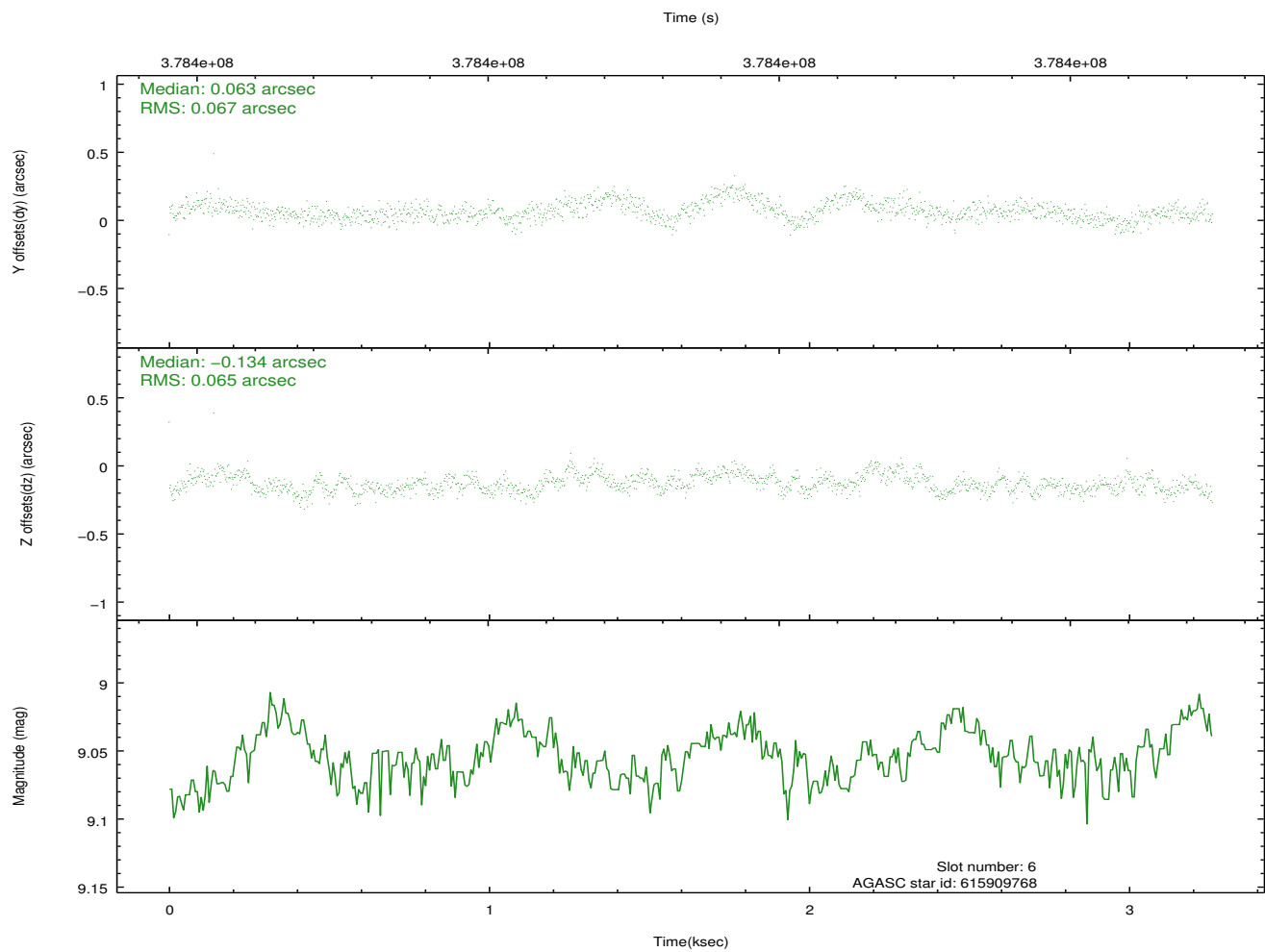
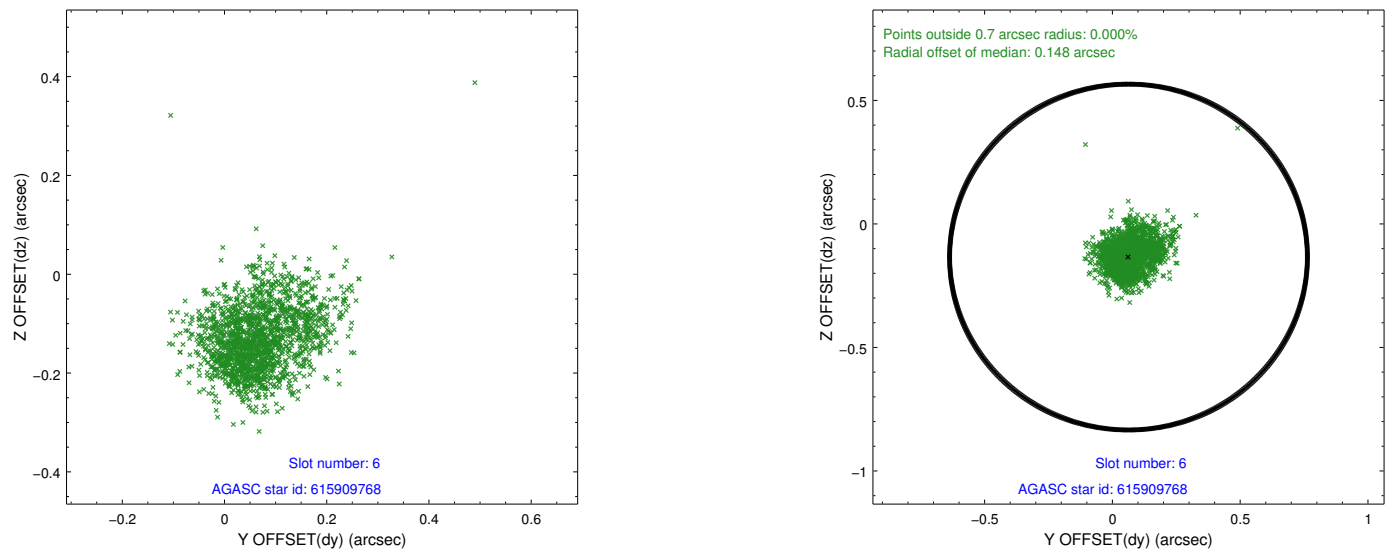
2.4.3 Slot 5



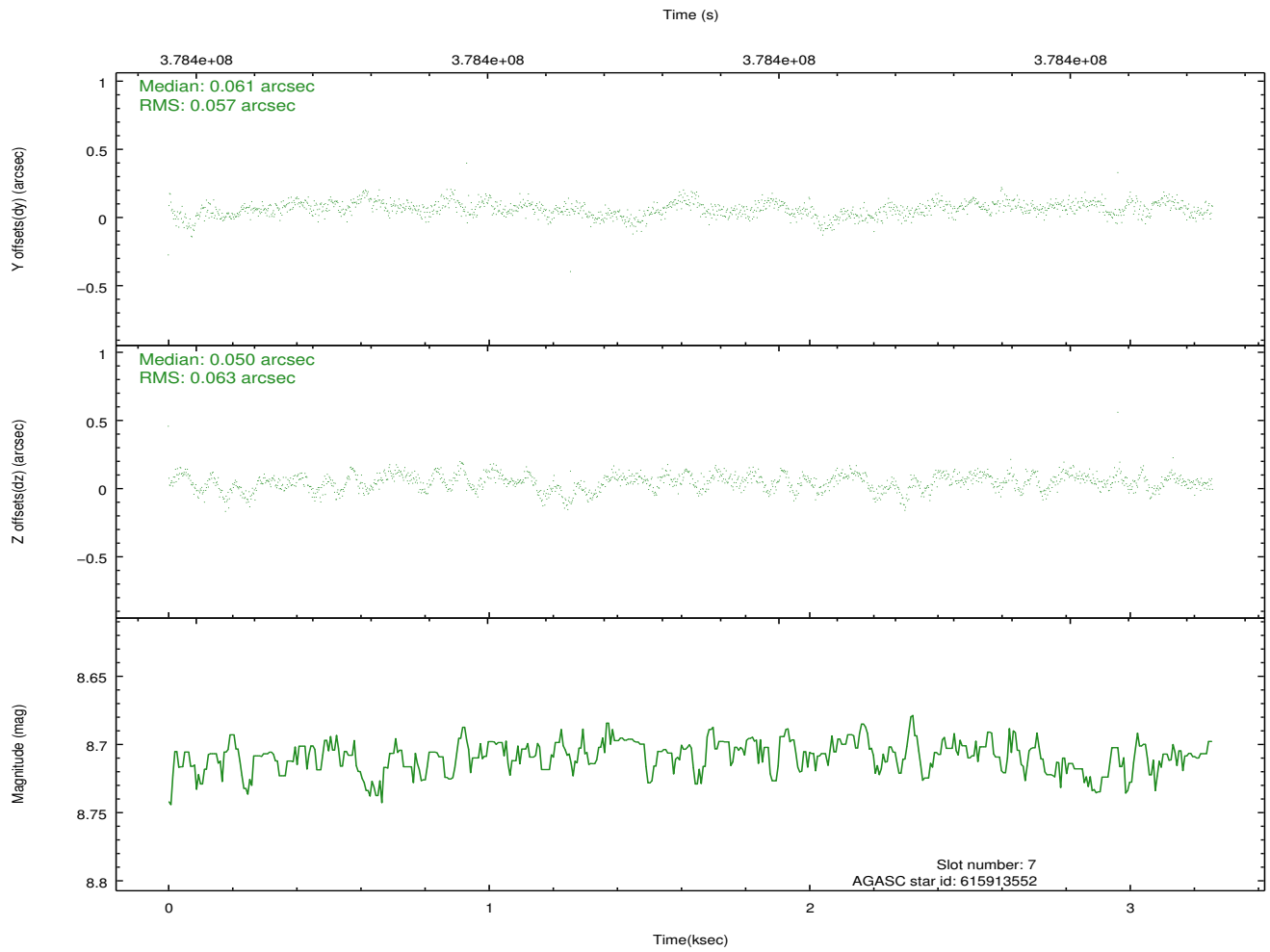
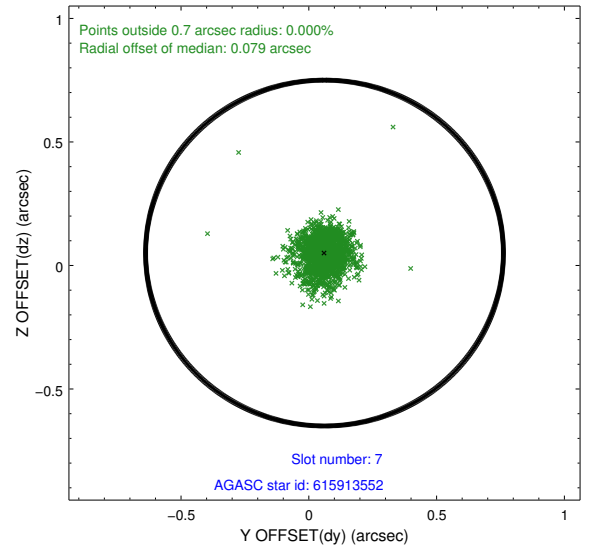
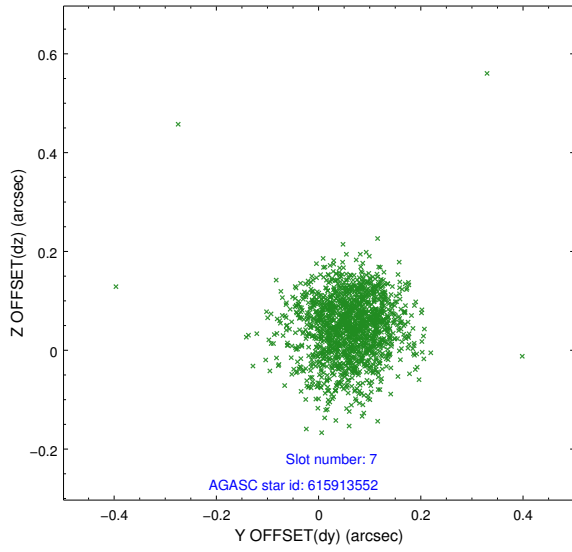
Time (s)



2.4.4 Slot 6

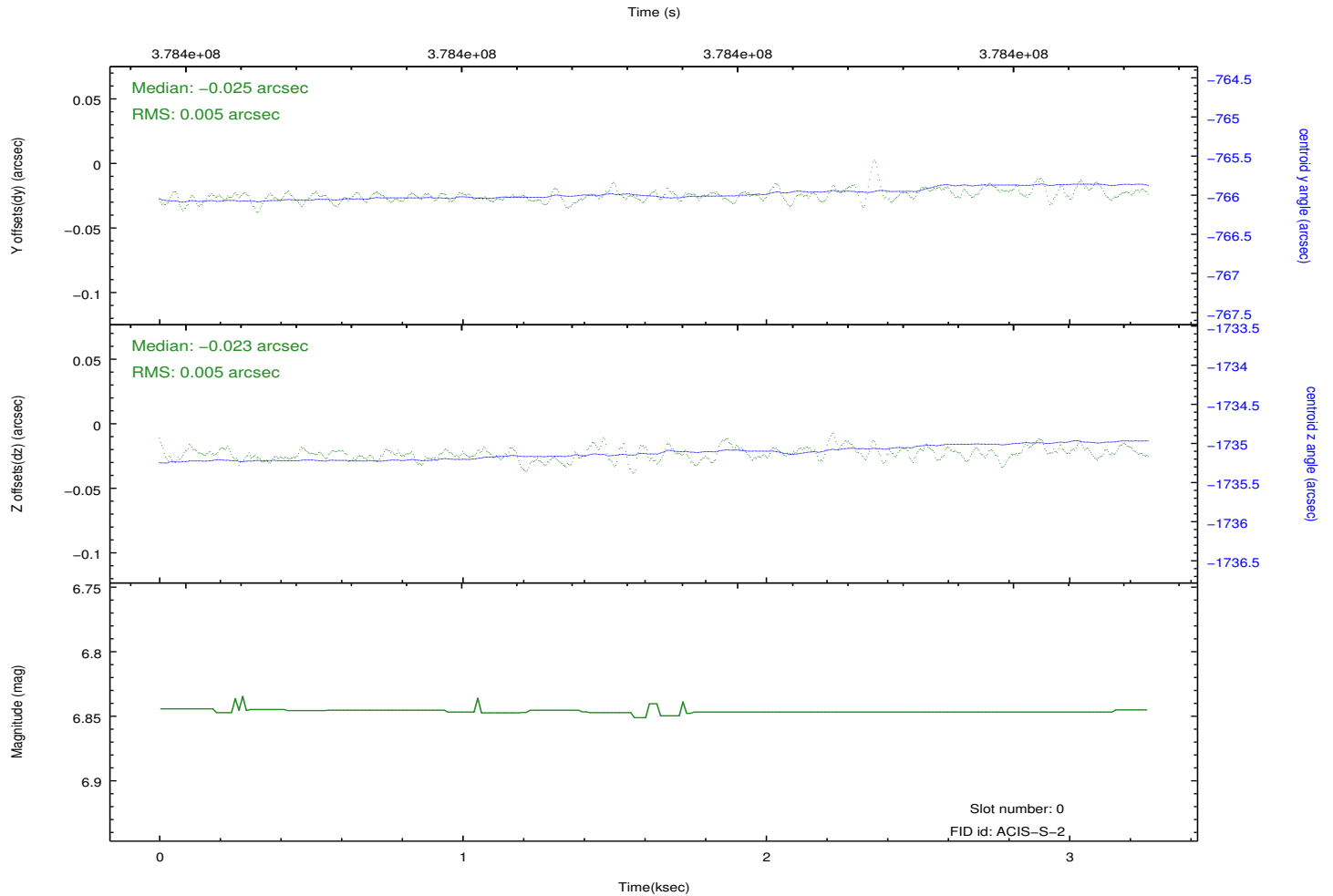
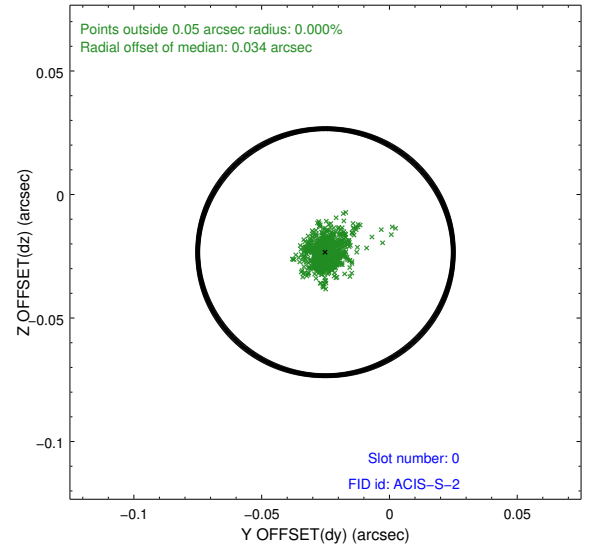
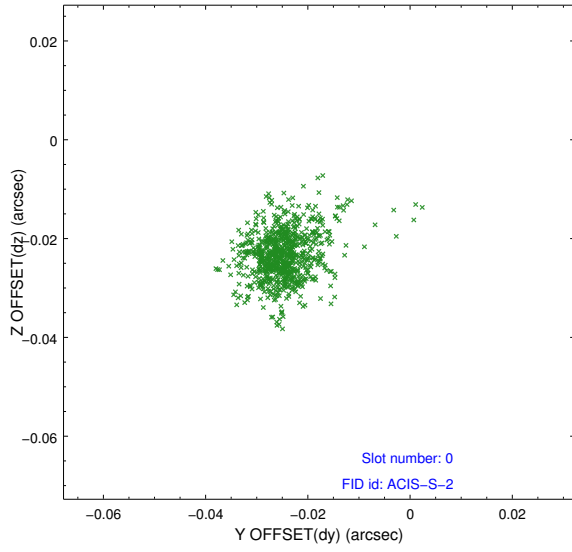


2.4.5 Slot 7

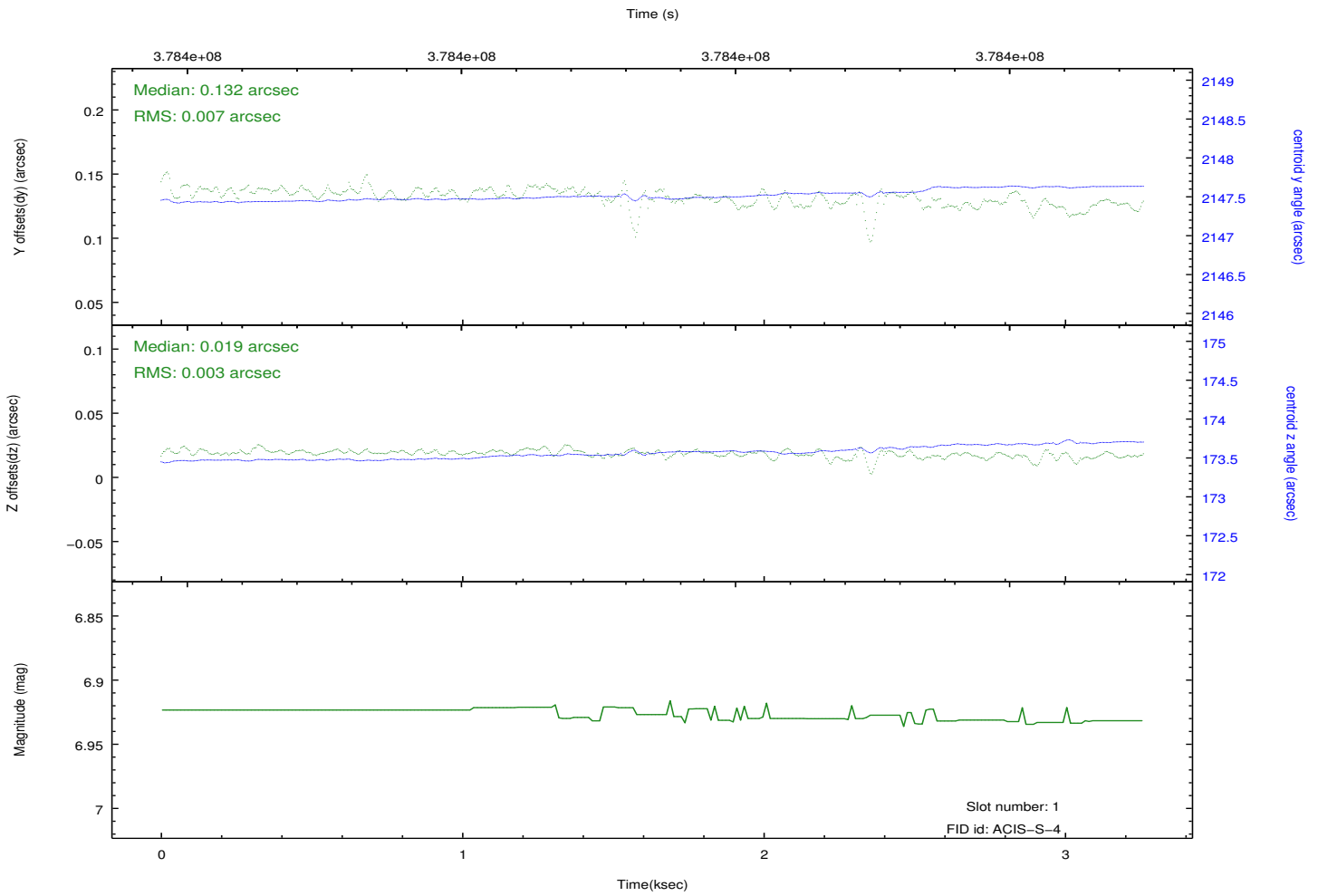
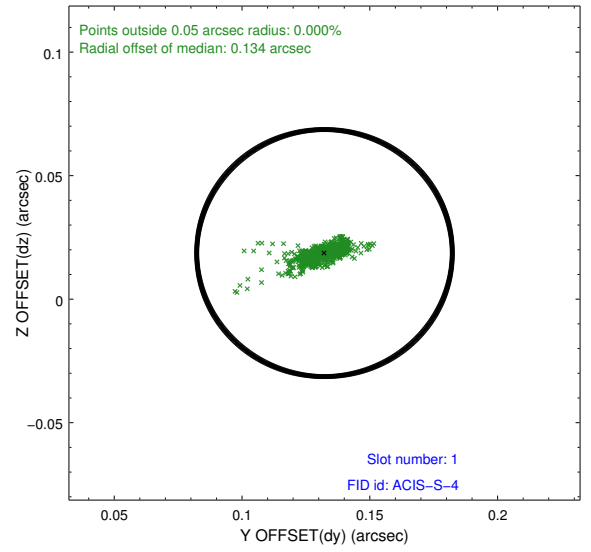
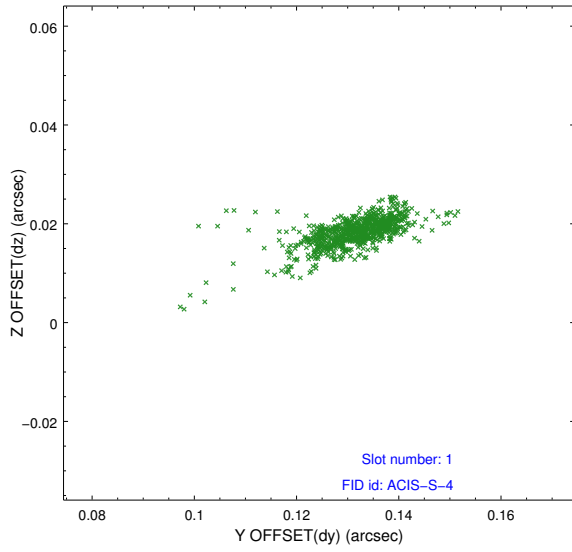


2.5 FID Slots

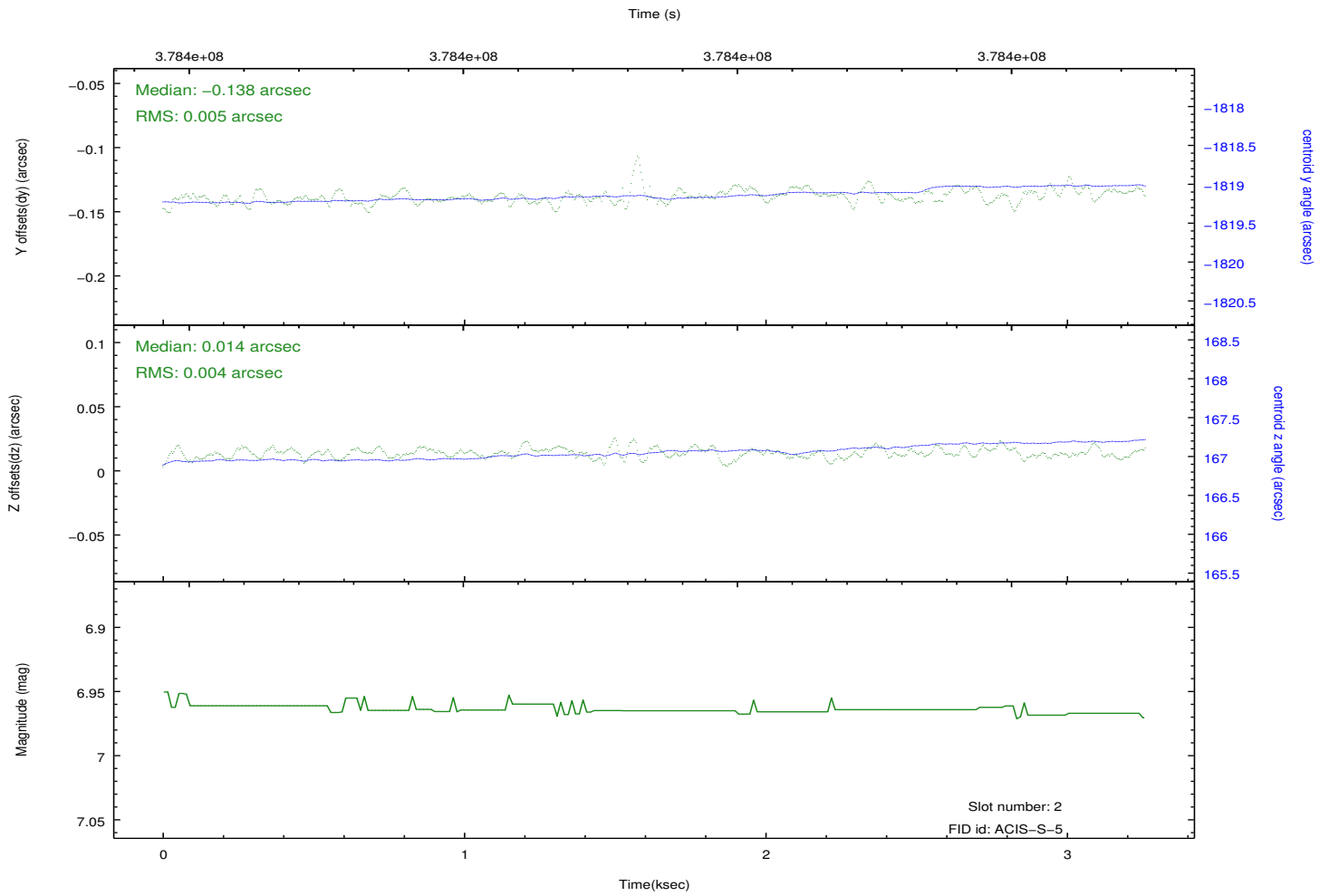
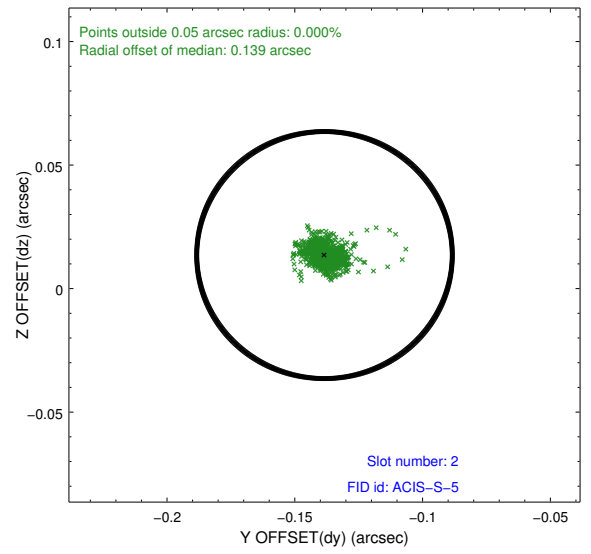
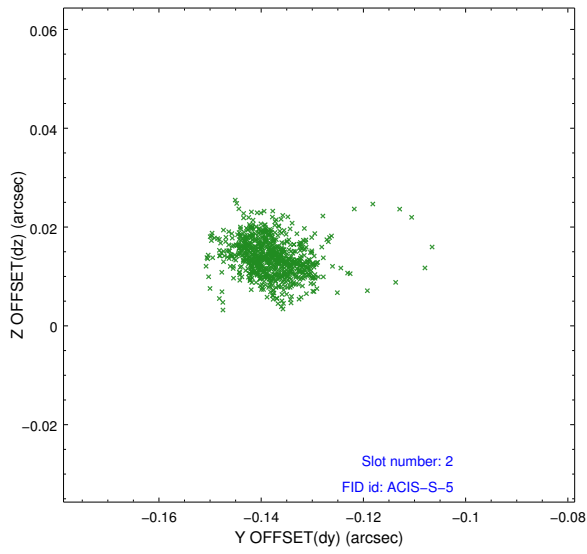
2.5.1 Slot 0



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)	2012.06.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.7354767603278

A.2 Comments