

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 11674 - L2 Version 2
Chandra X-Ray Center

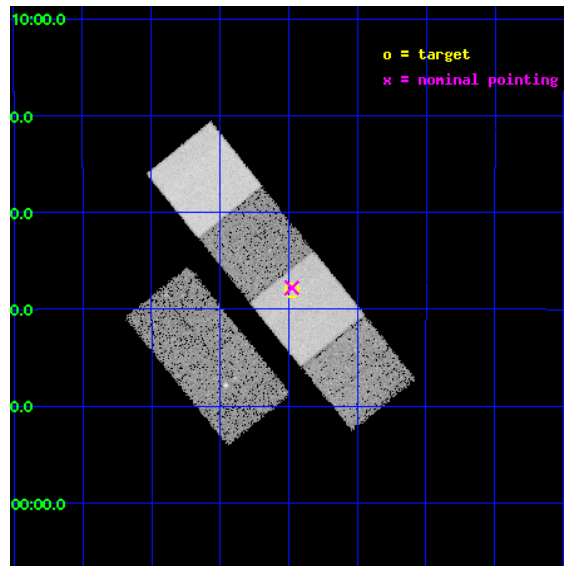
L2 Processing Date : Jun 23 2012

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1 Front

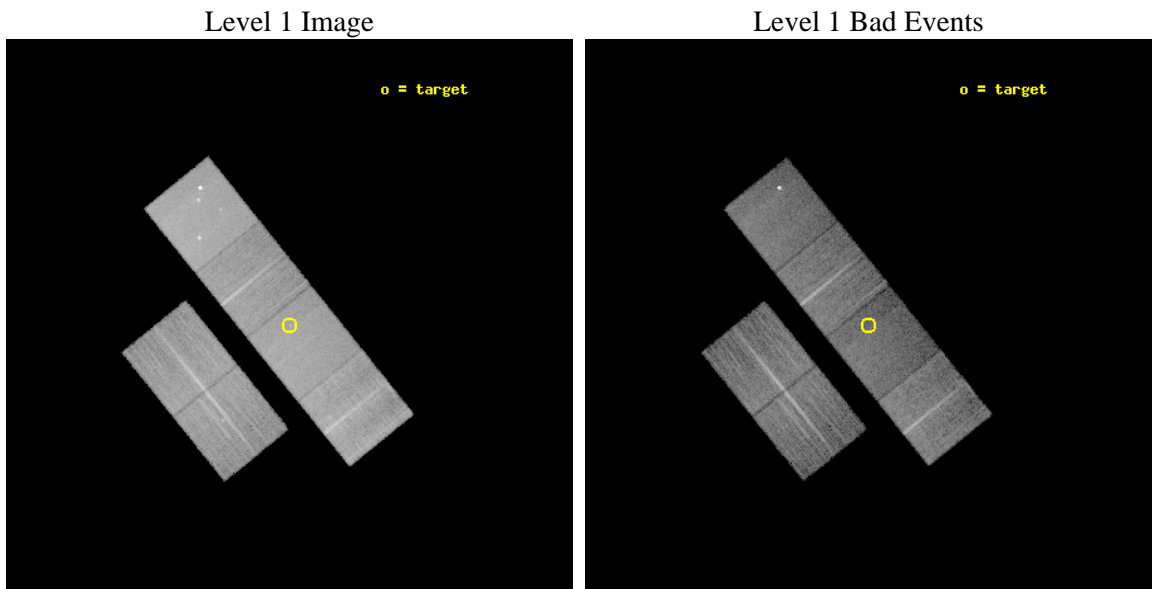
seq_num	702260	Sequence number
obs_id	11674	Observation id
title	Investigating the Nuclear Activity of Barred and Unbarred Spiral Galaxies	Proposal title
observer	Dr Leigh Jenkins	Principal investigator
object	NGC 5054	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	199.243708	Observer's specified target RA [deg]
dec_targ	-16.634861	Observer's specified target Dec [deg]
ra_nom	199.24435682322	Nominal RA [deg]
dec_nom	-16.63002470828	Nominal Dec [deg]
roll_nom	51.067152787089	Nominal Roll [deg]
revision	2	Processing version of data
ontime	15045.103345573	Sum of GTIs [s]
livetime	14854.593187938	Livetime [s]
ontime2	15045.144385576	Sum of GTIs [s]
ontime3	15044.980225563	Sum of GTIs [s]
ontime5	15045.06230557	Sum of GTIs [s]
ontime6	15045.021265566	Sum of GTIs [s]
ontime7	15045.103345573	Sum of GTIs [s]
ontime8	15041.698204815	Sum of GTIs [s]
l2events	189863	Number of level 2 events



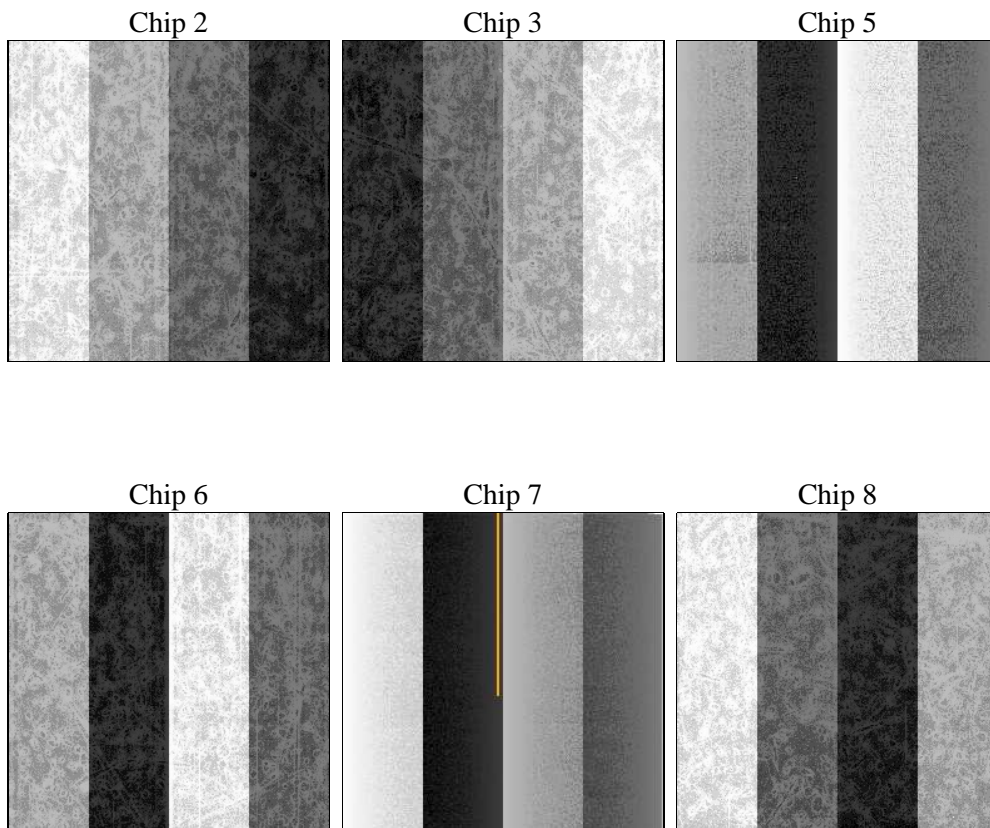
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	15045.103345573	Sum of GTIs [s]
caldbver	4.4.10	 	ontime2	15045.144385576	Sum of GTIs [s]
date	2012-06-23T04:54:46	Date and time of file creation	ontime3	15044.980225563	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	15045.06230557	Sum of GTIs [s]
			ontime6	15045.021265566	Sum of GTIs [s]
			ontime7	15045.103345573	Sum of GTIs [s]
			ontime8	15041.698204815	Sum of GTIs [s]
			l1events	820563	Number of level 1 events

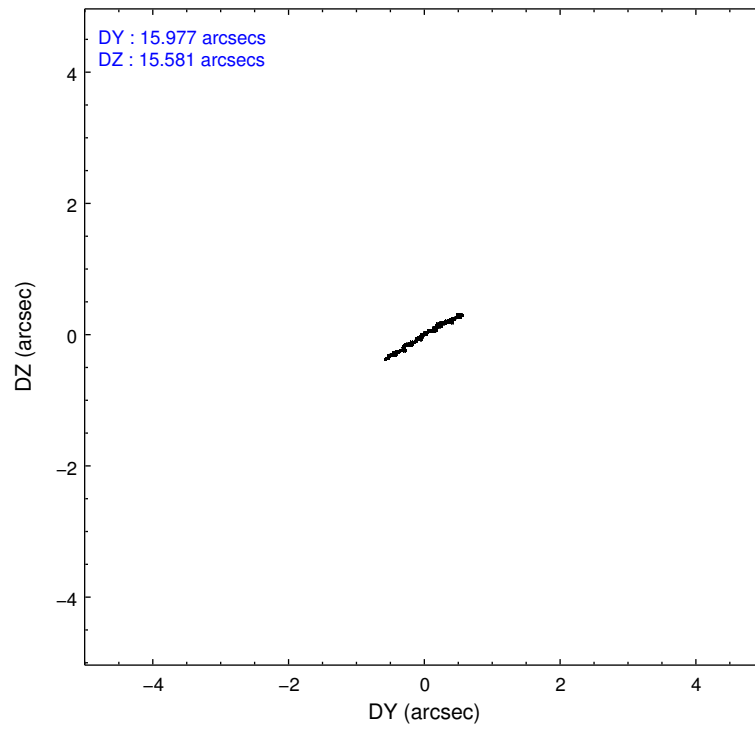
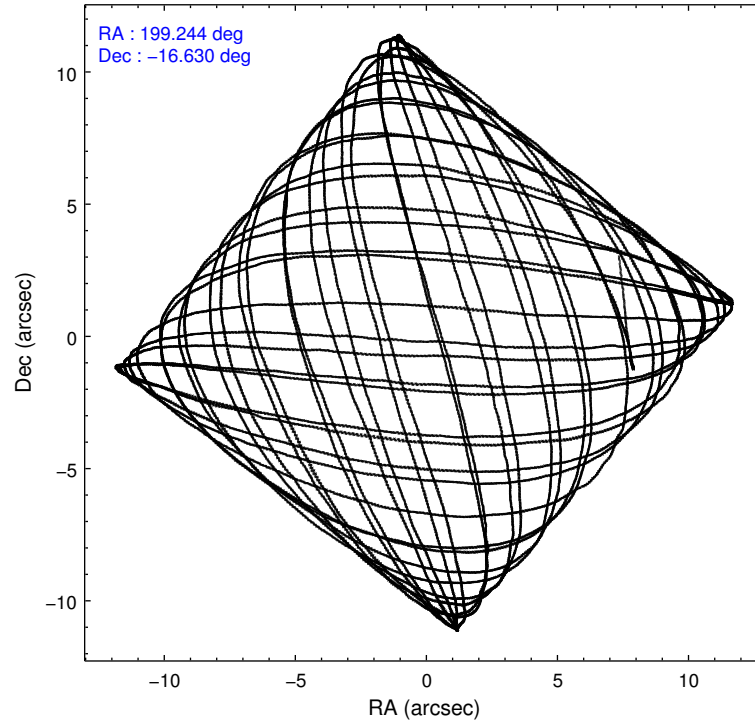
2.1.4 Events

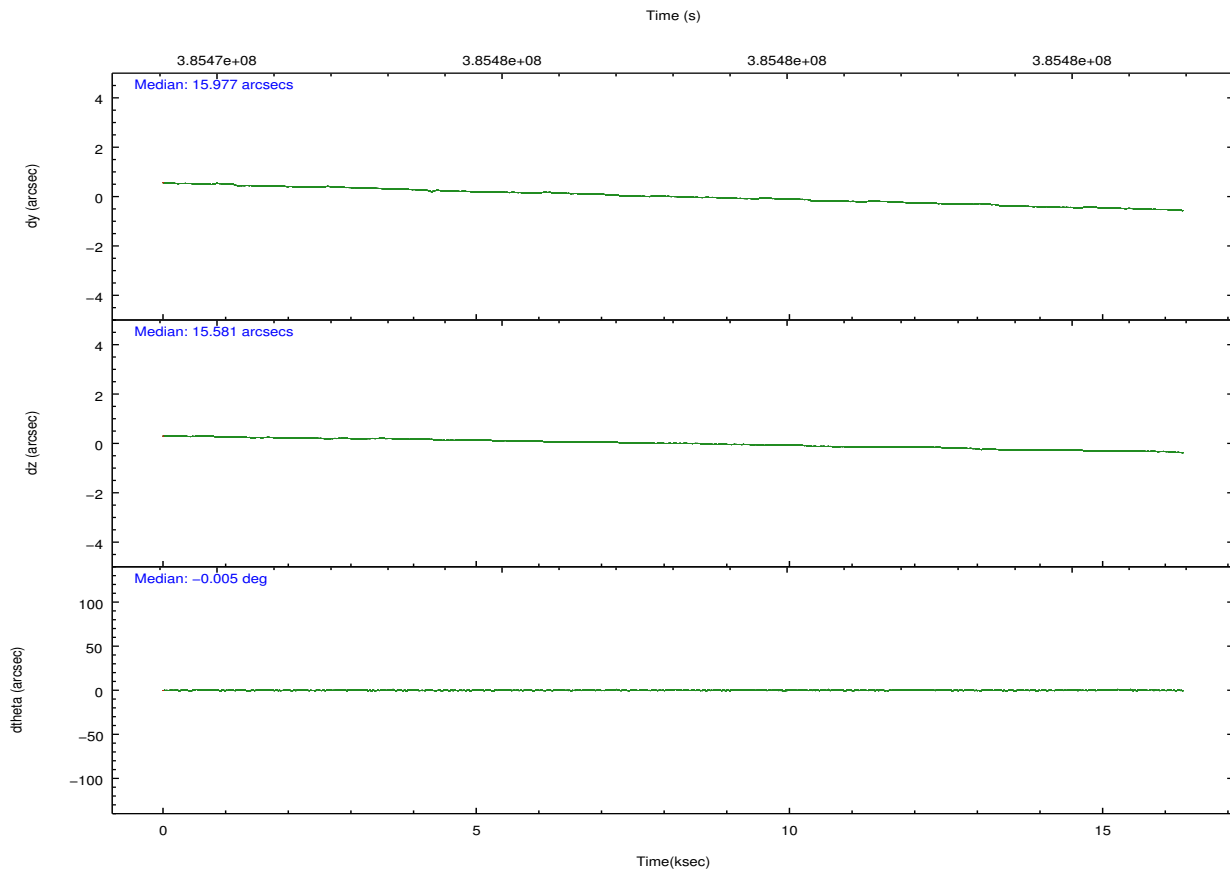
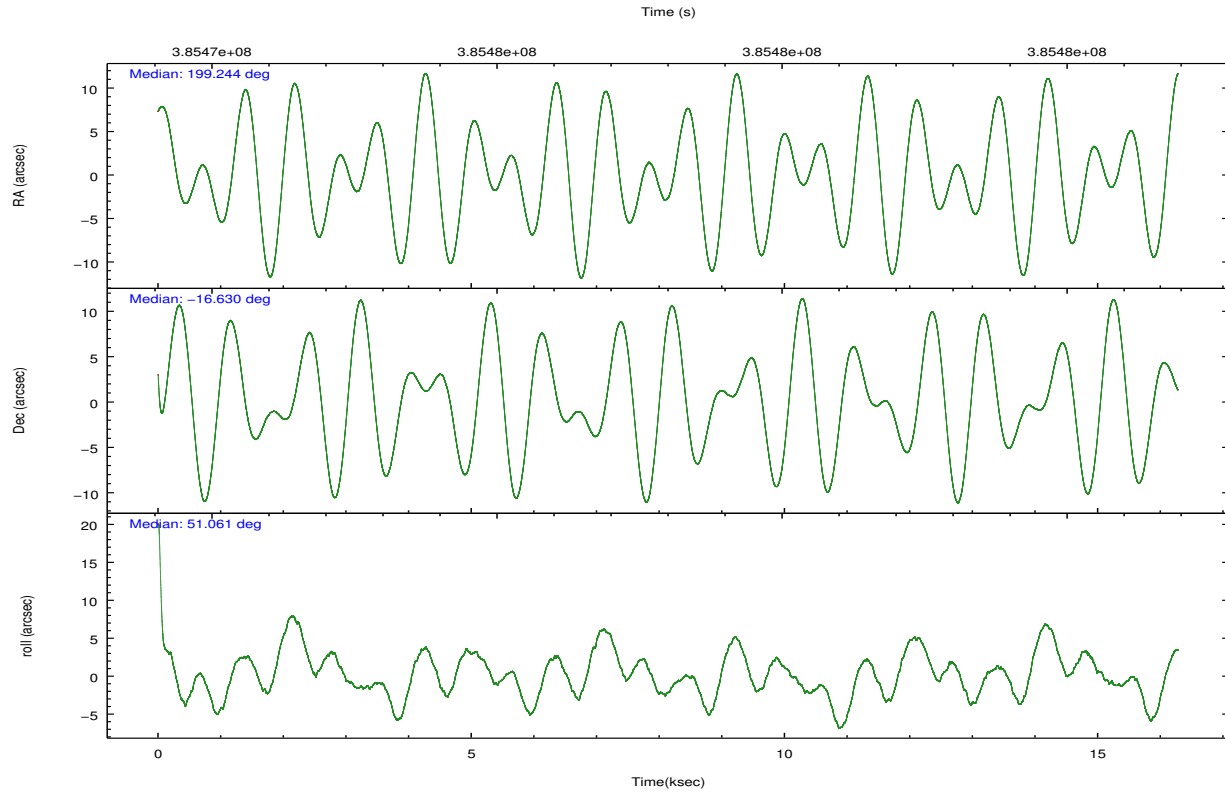
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	120029	112845	177947	117833	140288	151621	grade 0 events	4461	4530	9254	4826	6055	11349
rejected events	107466	100820	89497	104660	76106	112888		3%	4%	5%	4%	4%	7%
rejected %	89%	89%	50%	88%	54%	74%	grade 1 events	81	68	570	57	205	137
								0%	0%	0%	0%	0%	0%
							grade 2 events	3026	2568	26366	2860	13347	9337
								2%	2%	14%	2%	9%	6%
							grade 3 events	1328	1305	4008	1335	5701	4023
								1%	1%	2%	1%	4%	2%
							grade 4 events	1316	1309	3340	1292	5675	3779
								1%	1%	1%	1%	4%	2%
							grade 5 events	4580	5052	15133	5180	14591	7477
								3%	4%	8%	4%	10%	4%
							grade 6 events	2435	2323	45521	2863	33438	10260
								2%	2%	25%	2%	23%	6%
							grade 7 events	102802	95690	73755	99420	61276	105259
								85%	84%	41%	84%	43%	69%

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	199.240305	199.2443568232183	CCD I2 on	O1	Y
[deg] Pointing Dec	-16.657110	-16.63002470827989	CCD I3 on	O2	Y
[deg] Pointing Roll	50.909351	51.06715278708909	CCD S0 on	N	N
[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)	385471137.184000	385468802.94259	CCD S5 on	N	N
Observation start date	2010-03-20T11:17:51	2010-03-20T10:40:02	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	385486137.184000	385487268.31853	On-chip summing requested	N	N
Observation end date	2010-03-20T15:27:51	2010-03-20T15:47:48	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



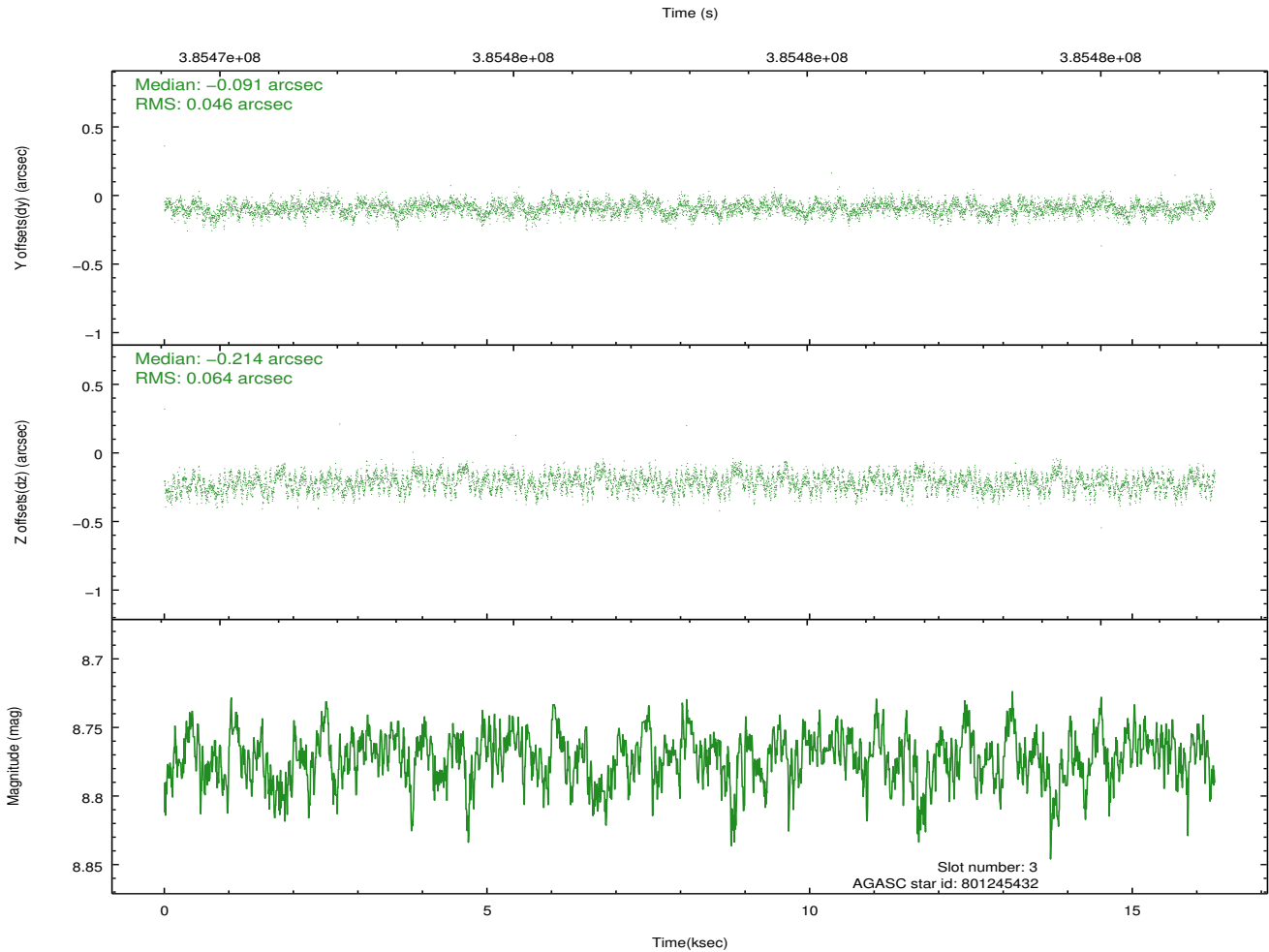
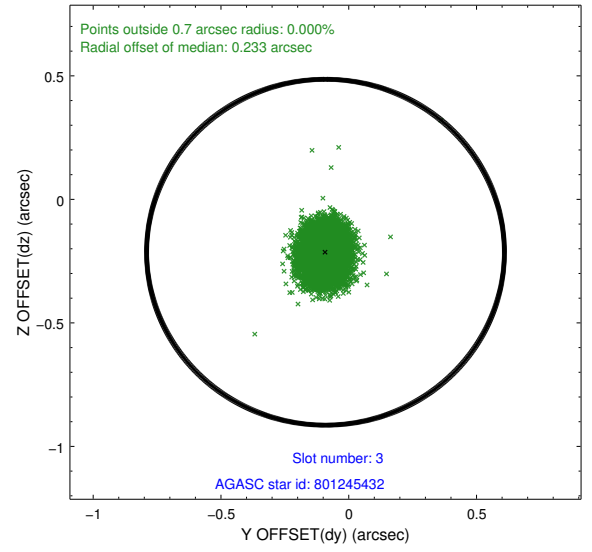
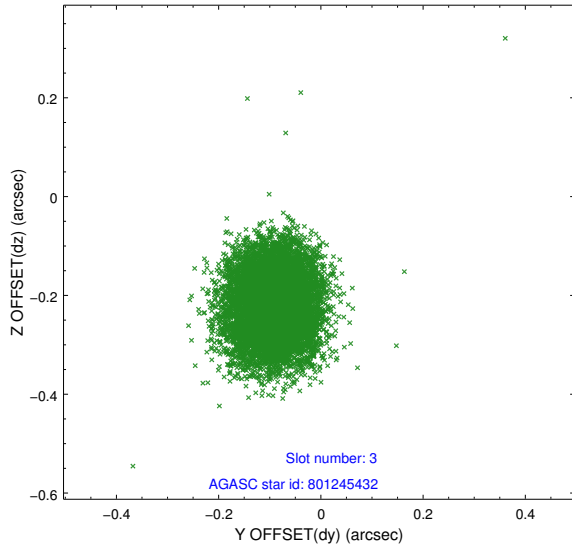


Slot Statistics

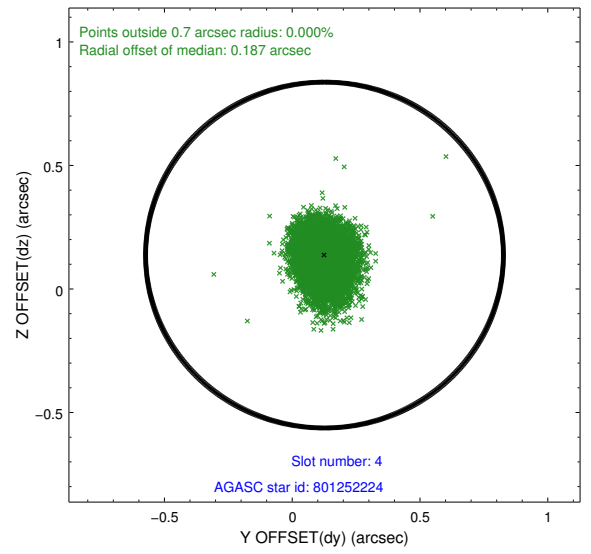
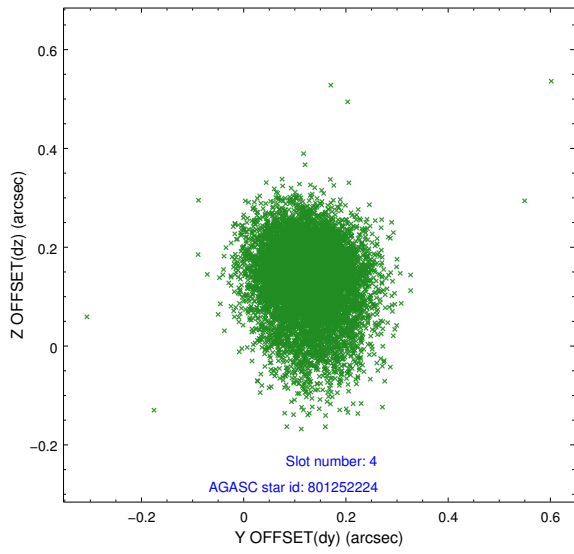
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.91	3971	-0.108	-0.025	0.008	0.014	0.000000	0.000000	-769.06	-1736.99
1	FID	ACIS-S-4	6.99	3971	0.206	0.059	0.007	0.015	0.000000	0.000000	2144.38	171.32
2	FID	ACIS-S-5	7.02	3971	-0.129	-0.025	0.007	0.013	0.000000	0.000000	-1821.61	165.17
3	GUIDE	801245432	8.77	7941	-0.091	-0.214	0.084	0.132	198.949872	-16.275389	432.46	1645.51
4	GUIDE	801252224	9.48	7925	0.126	0.137	0.099	0.168	198.949290	-17.046136	-1718.78	-105.69
5	GUIDE	801253520	7.59	7942	0.006	0.136	0.055	0.087	199.689069	-17.133691	-359.07	-2281.02
6	GUIDE	802162336	8.55	7937	-0.140	0.156	0.090	0.137	200.109553	-16.703716	1754.83	-2436.24
7	GUIDE	801248216	10.25	7910	0.101	-0.208	0.149	0.248	198.373129	-16.775600	-2220.83	2047.32

2.4 Star Slots

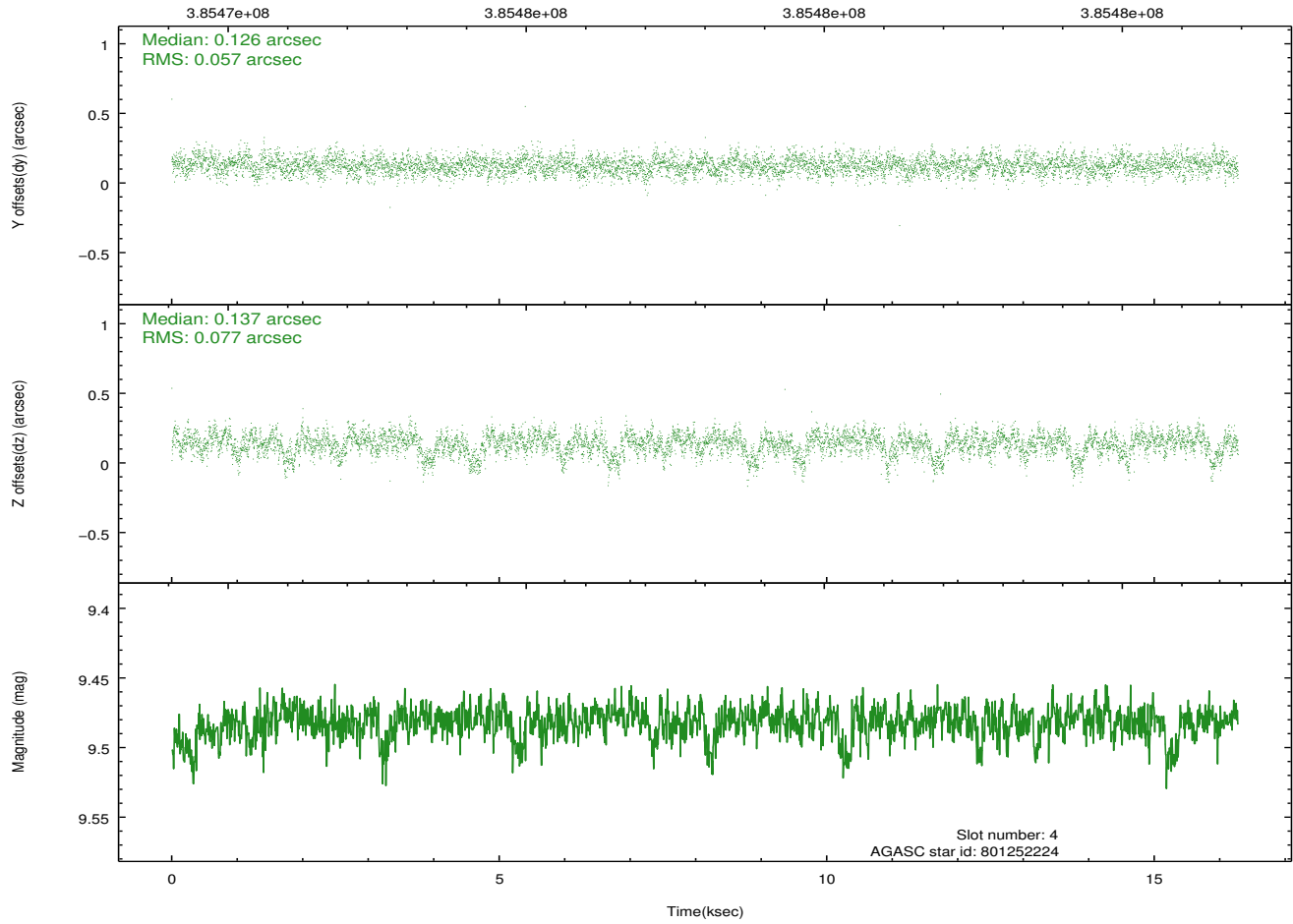
2.4.1 Slot 3



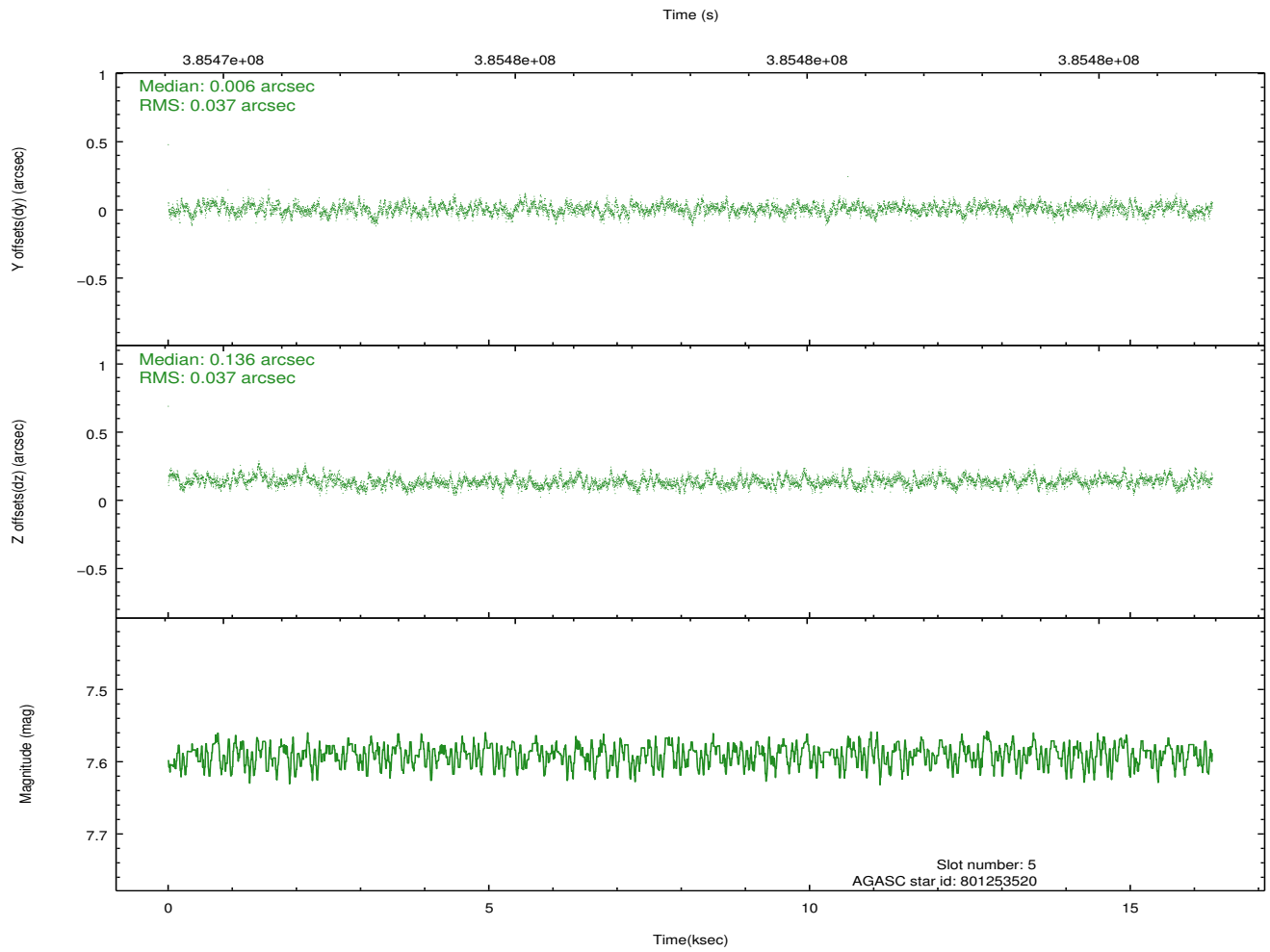
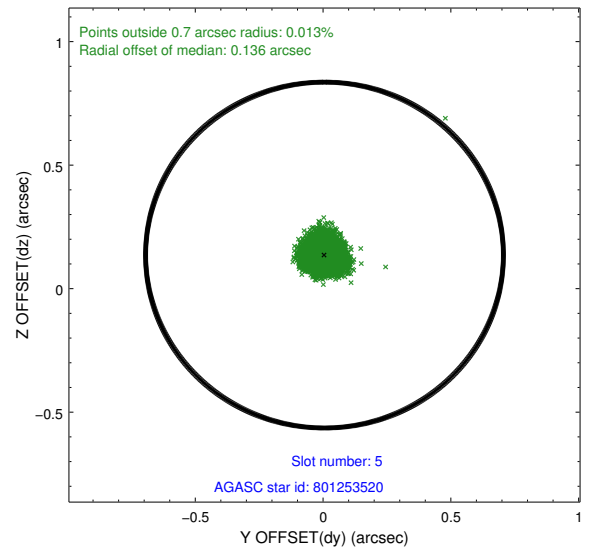
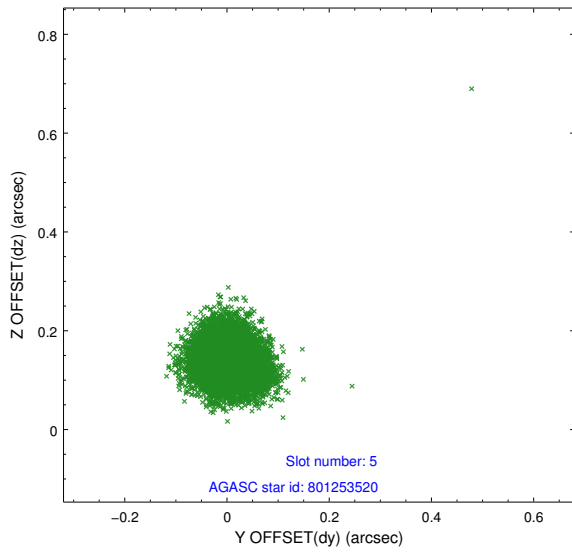
2.4.2 Slot 4



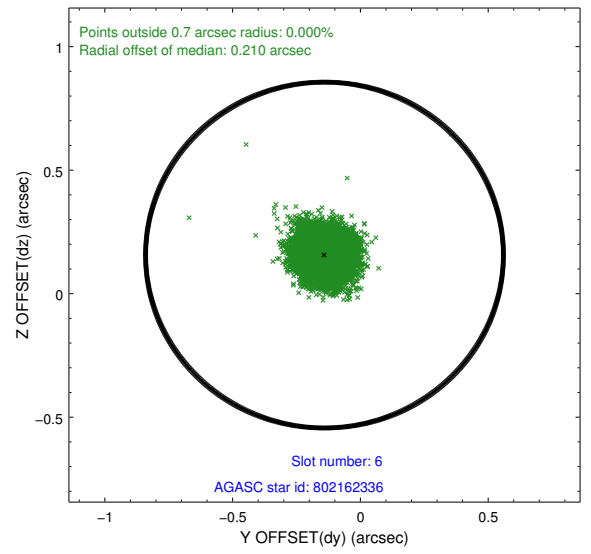
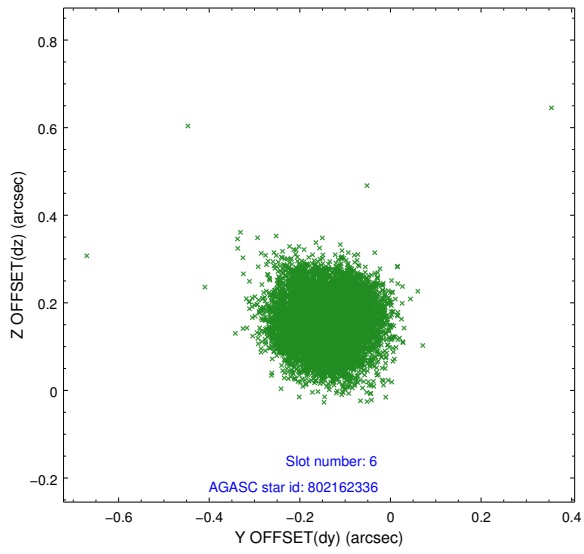
Time (s)



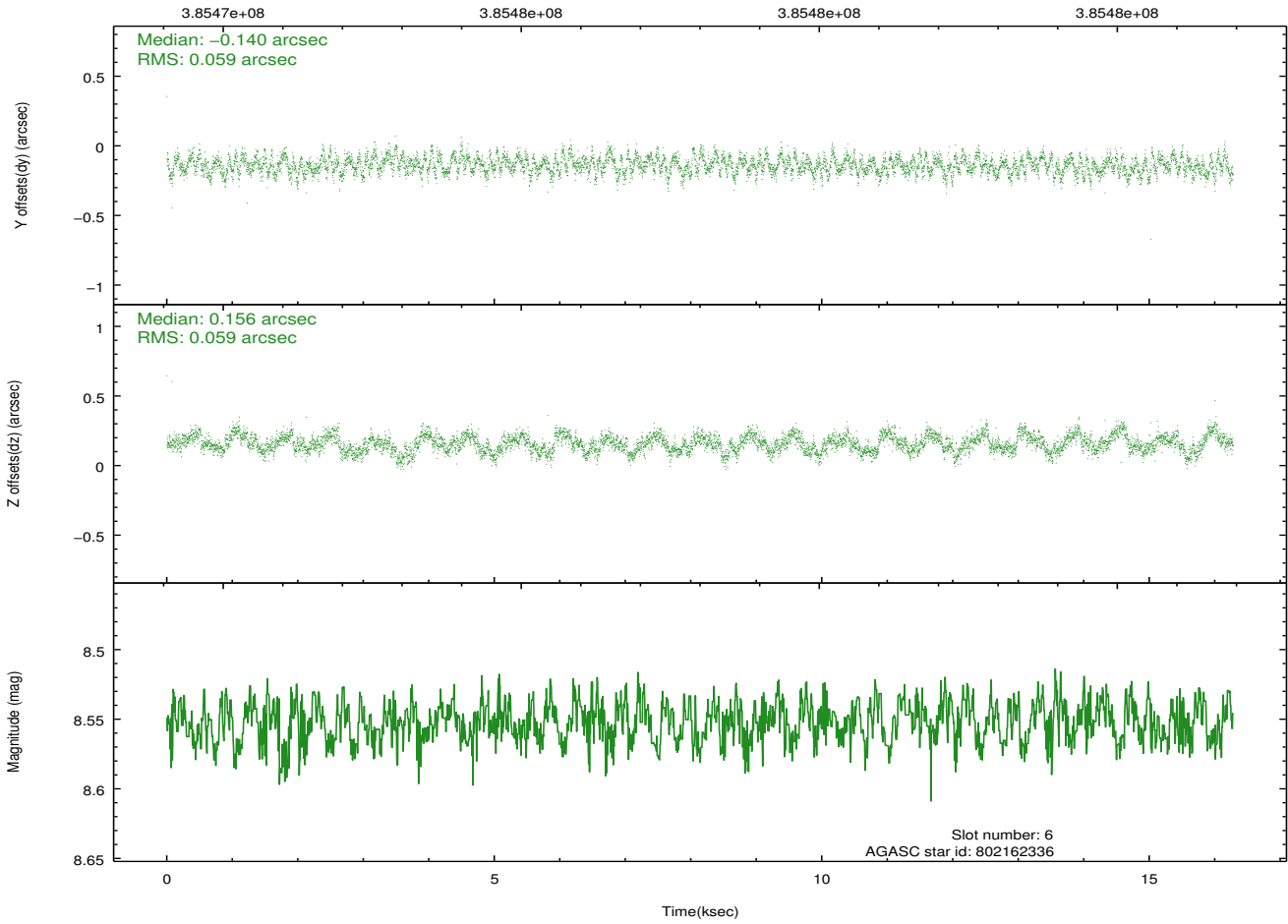
2.4.3 Slot 5



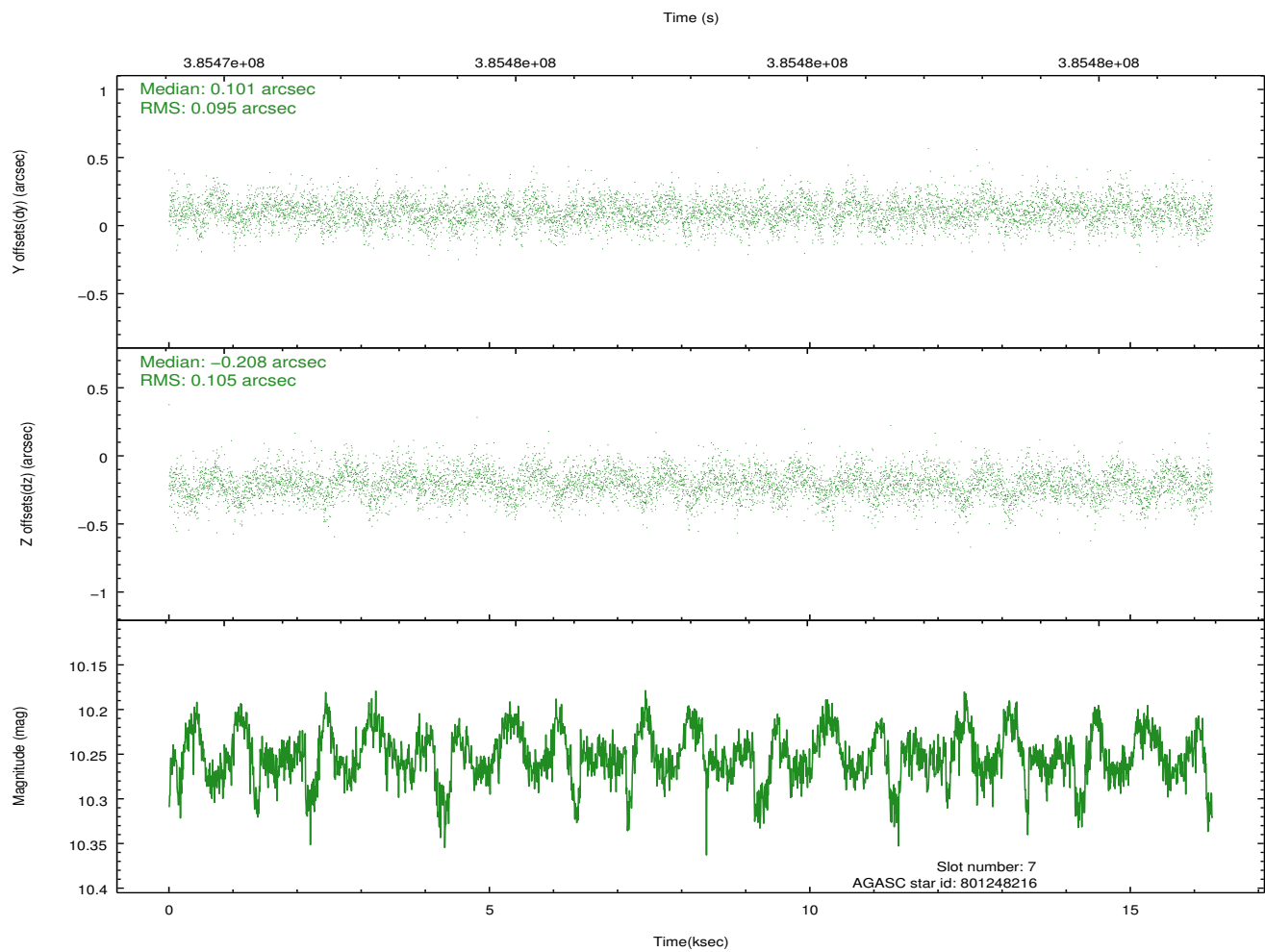
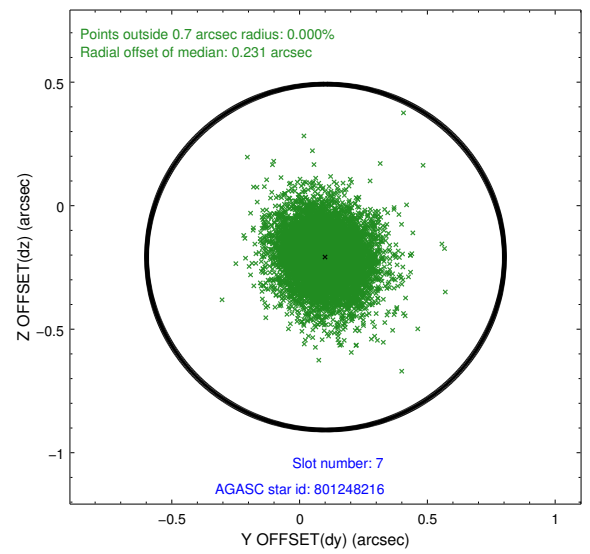
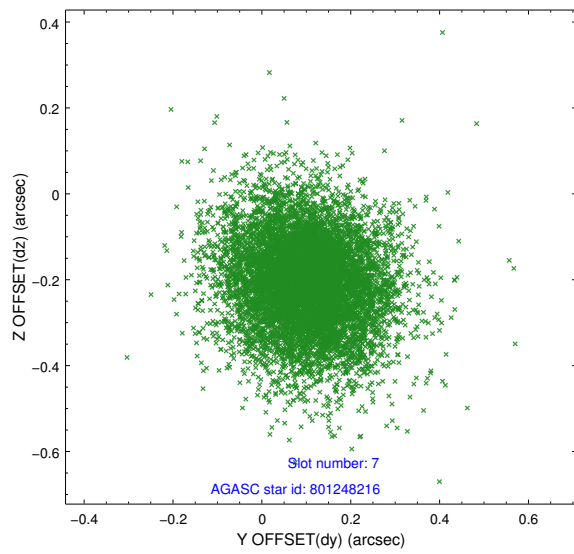
2.4.4 Slot 6



Time (s)

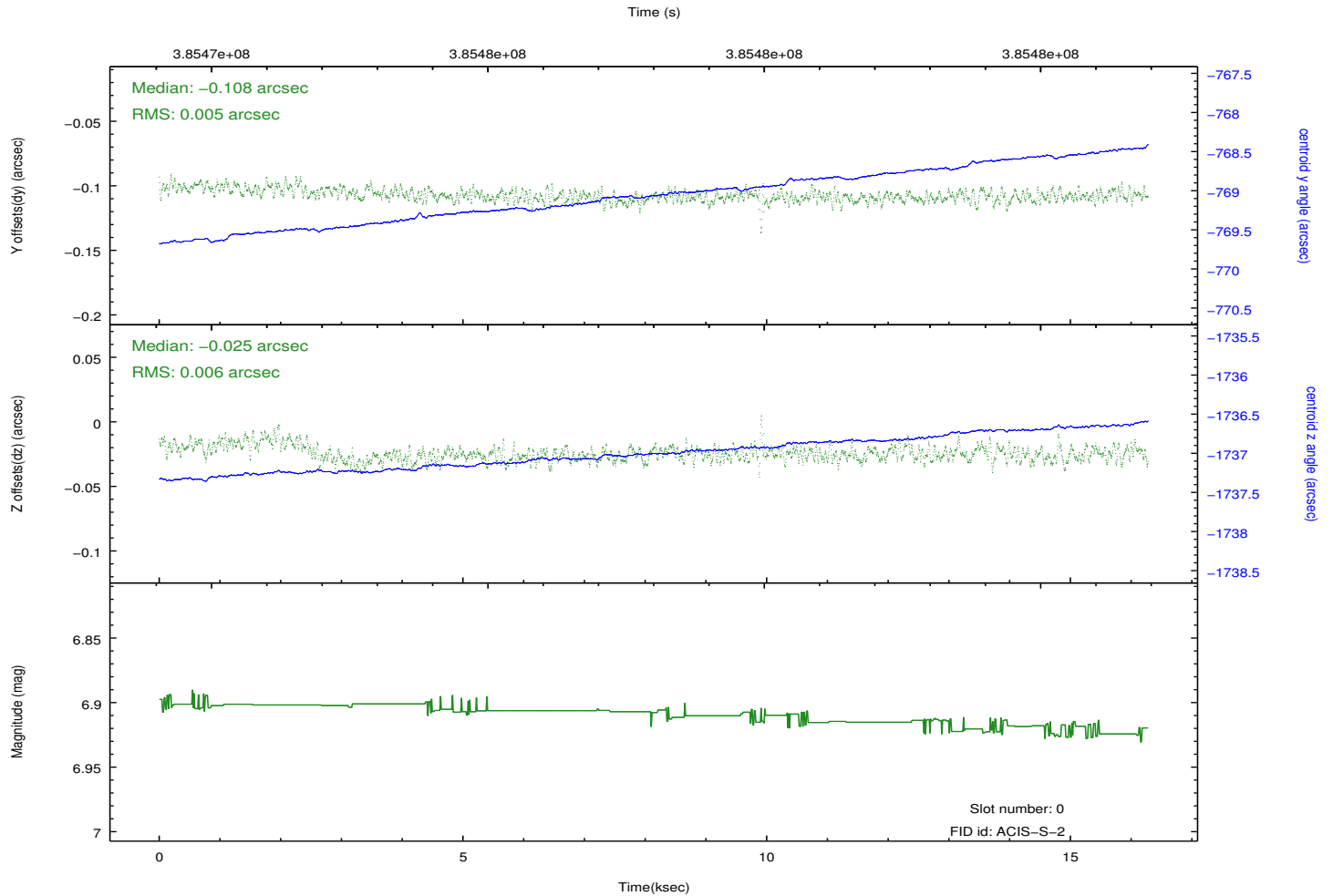
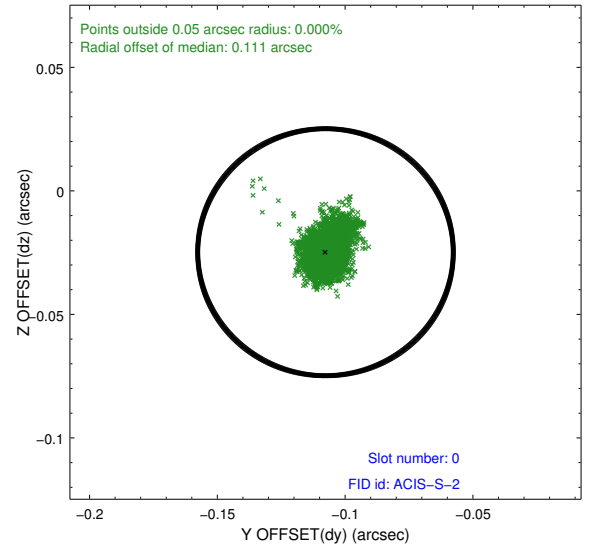
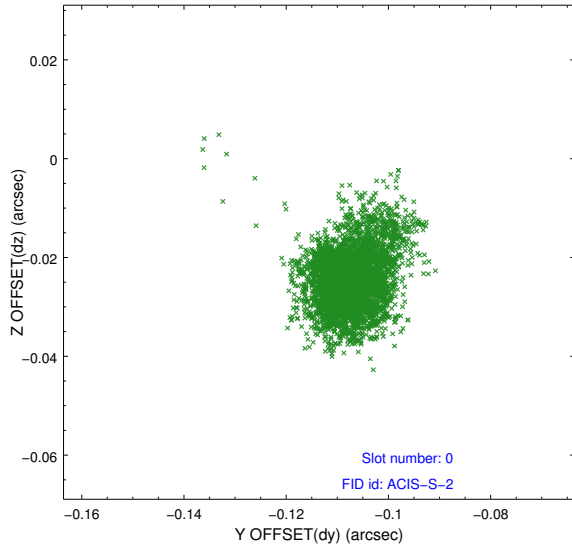


2.4.5 Slot 7

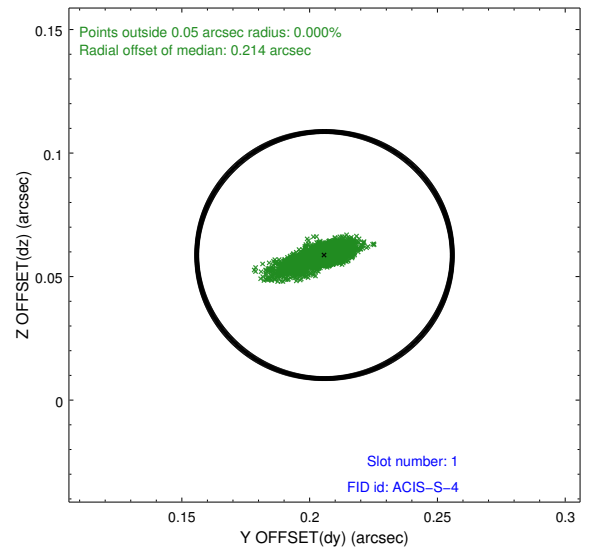
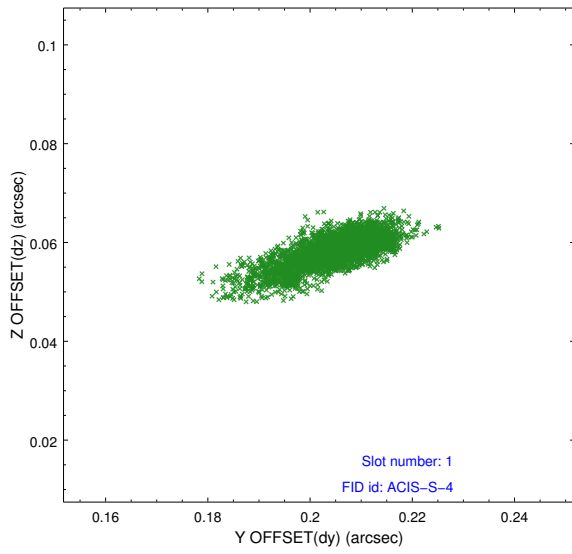


2.5 FID Slots

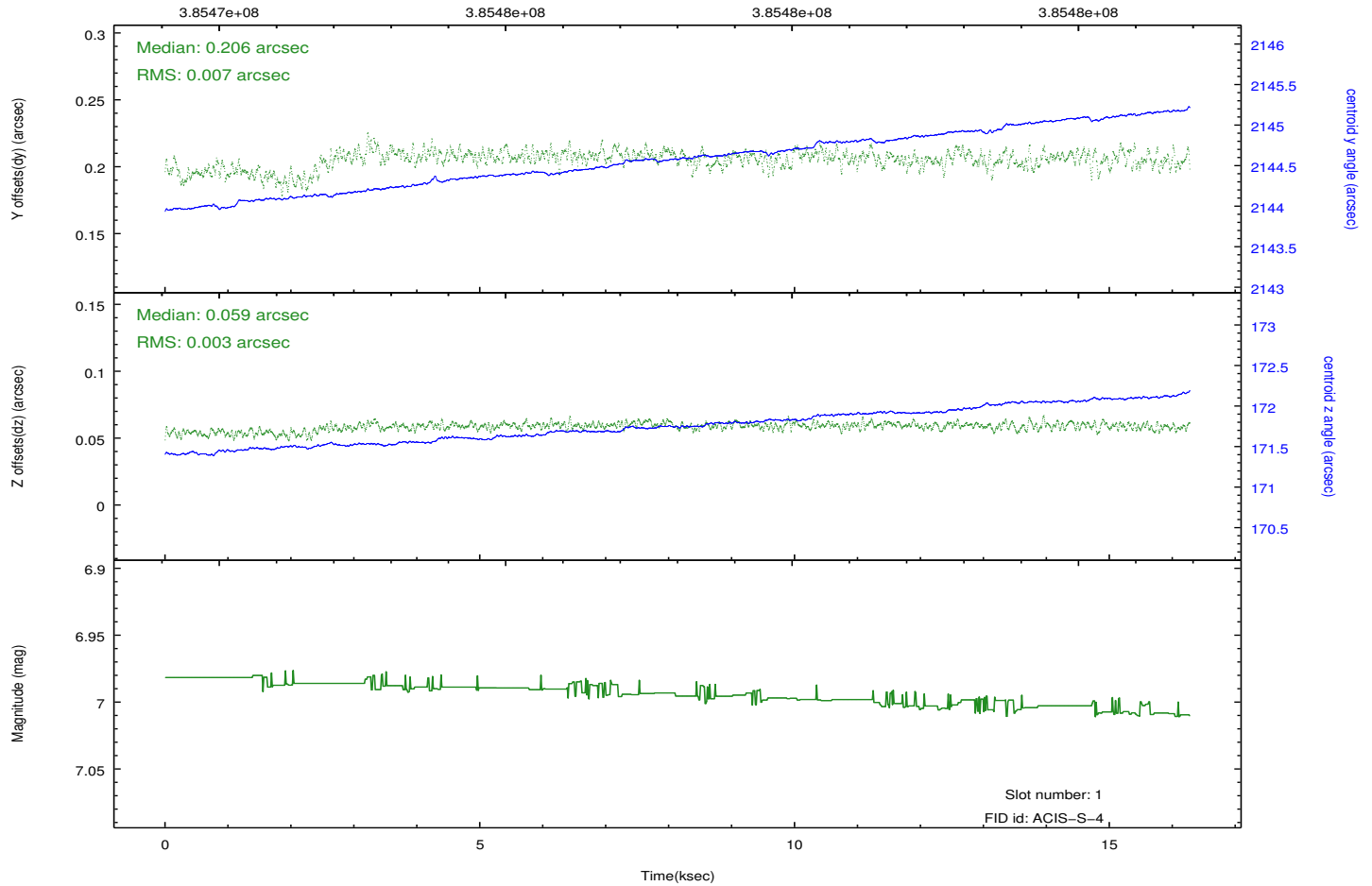
2.5.1 Slot 0



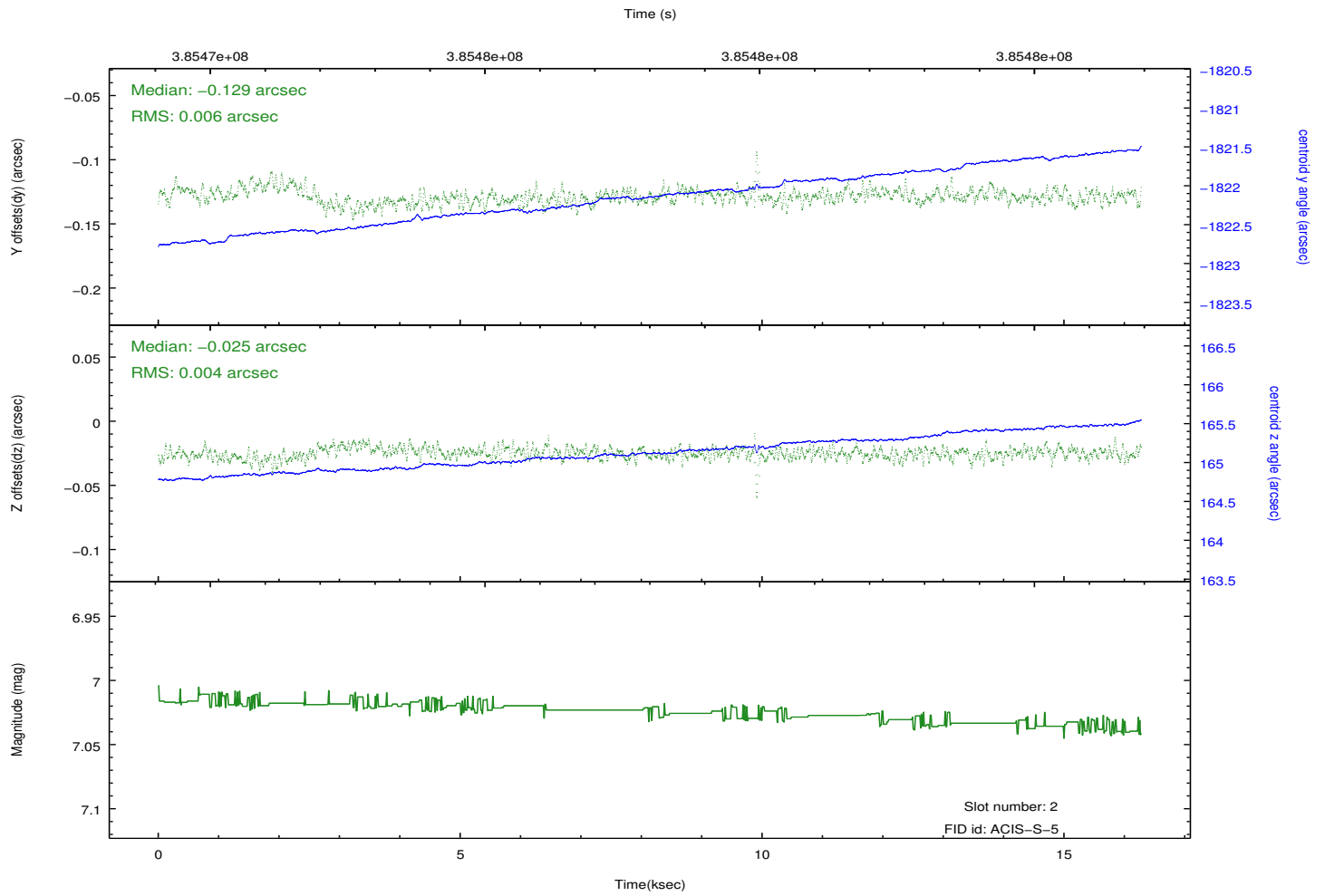
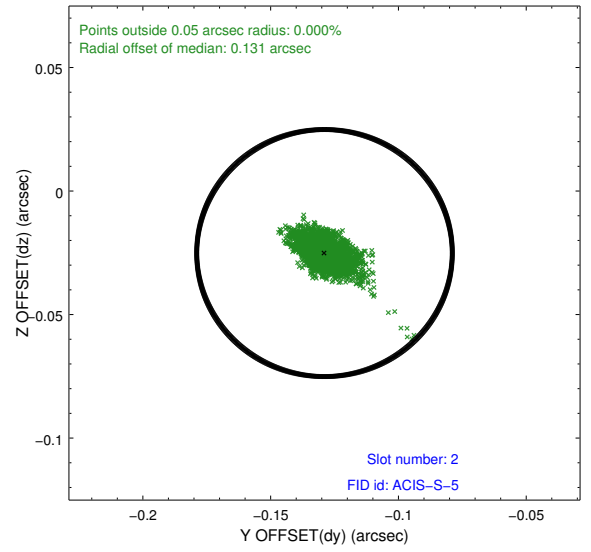
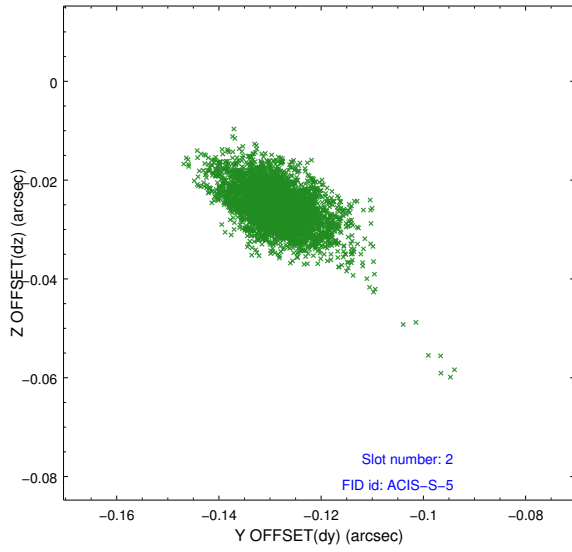
2.5.2 Slot 1



Time (s)



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.06.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.045103345871

A.2 Comments