

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 11086 - L2 Version 2
Chandra X-Ray Center

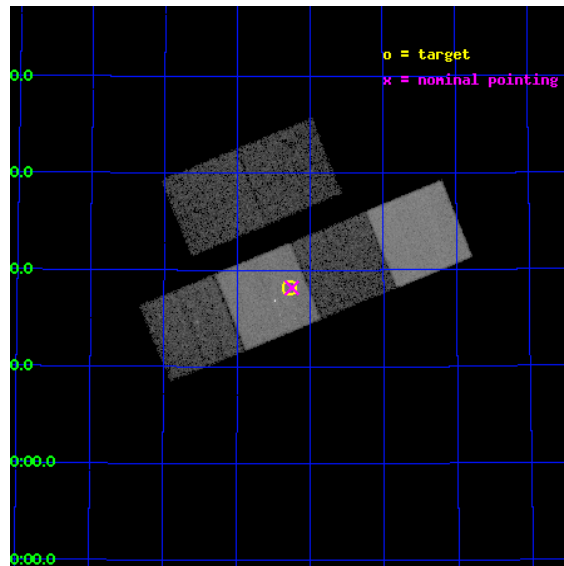
L2 Processing Date : Jul 2 2012

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

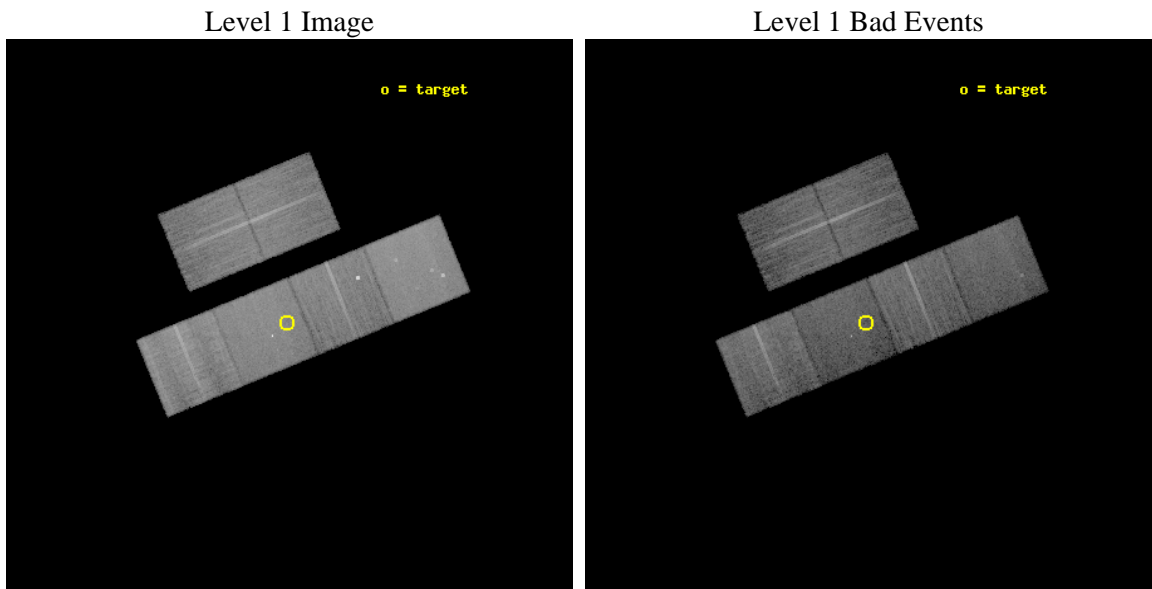
seq_num	401121	Sequence number
obs_id	11086	Observation id
title	X-Ray Binaries In a Nearby Star-Burst Galaxy: A New Lab for Astrophysics.	Proposal title
observer	Dr Silas Laycock	Principal investigator
object	IC 10	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	5.072083	Observer's specified target RA [deg]
dec_targ	59.303778	Observer's specified target Dec [deg]
ra_nom	5.0626850789523	Nominal RA [deg]
dec_nom	59.302963887994	Nominal Dec [deg]
roll_nom	157.70754522016	Nominal Roll [deg]
revision	2	Processing version of data
ontime	15049.599943995	Sum of GTIs [s]
livetime	14859.032847723	Livetime [s]
ontime2	15049.599943995	Sum of GTIs [s]
ontime3	15049.599943995	Sum of GTIs [s]
ontime5	15049.599943995	Sum of GTIs [s]
ontime6	15049.599943995	Sum of GTIs [s]
ontime7	15049.599943995	Sum of GTIs [s]
ontime8	15049.599943995	Sum of GTIs [s]
l2events	186412	Number of level 2 events



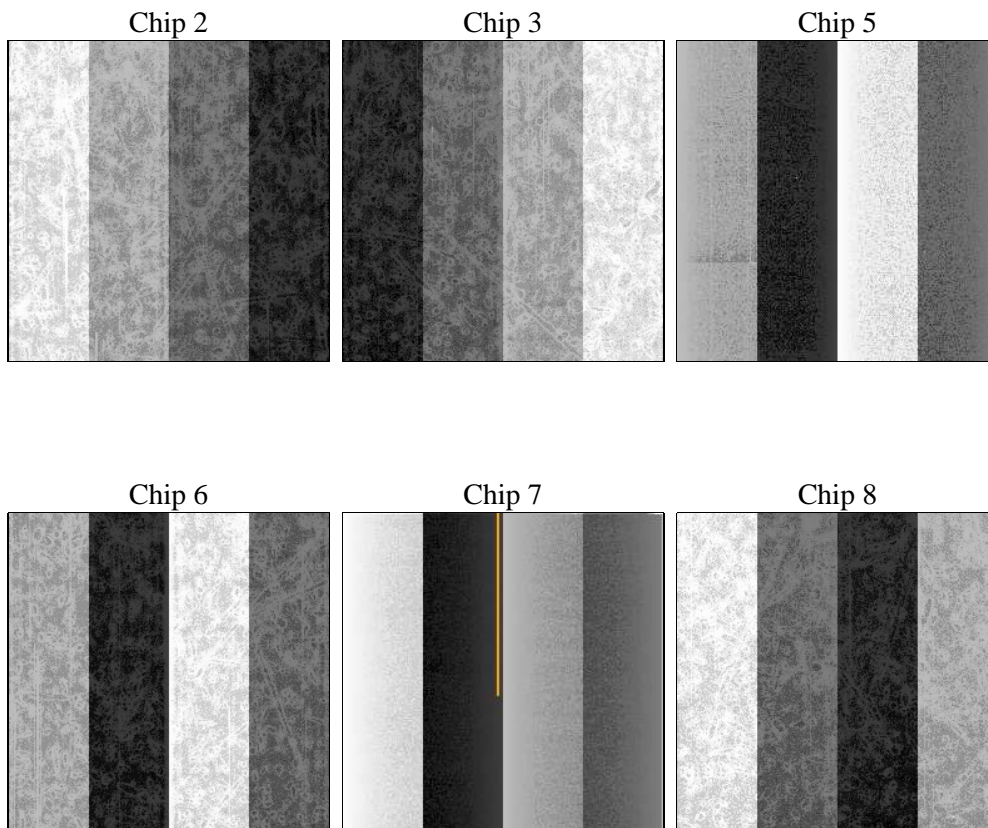
2 OBI

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	15049.599943995	Sum of GTIs [s]
caldbver	4.5.0	 	ontime2	15049.599943995	Sum of GTIs [s]
date	2012-07-02T18:26:07	Date and time of file creation	ontime3	15049.599943995	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	15049.599943995	Sum of GTIs [s]
			ontime6	15049.599943995	Sum of GTIs [s]
			ontime7	15049.599943995	Sum of GTIs [s]
			ontime8	15049.599943995	Sum of GTIs [s]
			l1events	805237	Number of level 1 events

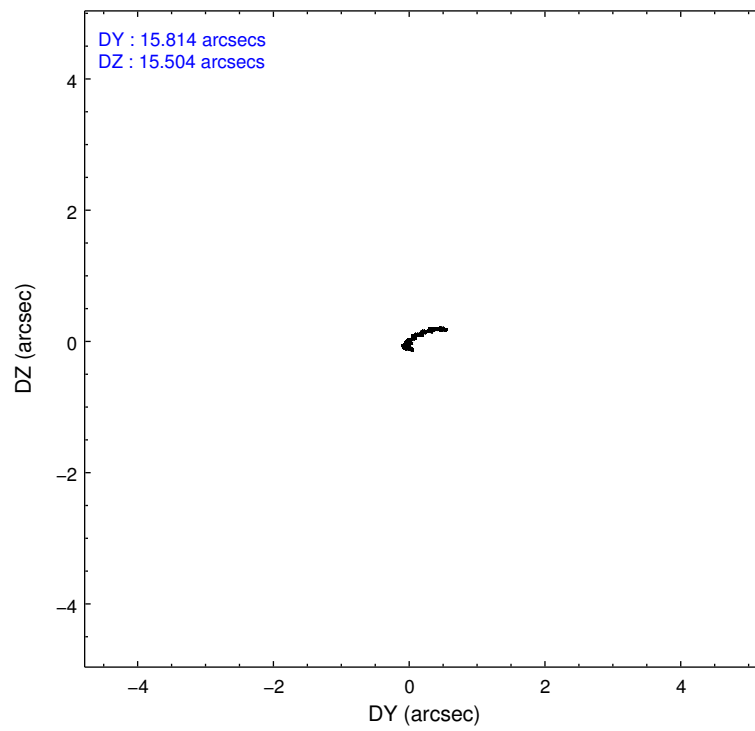
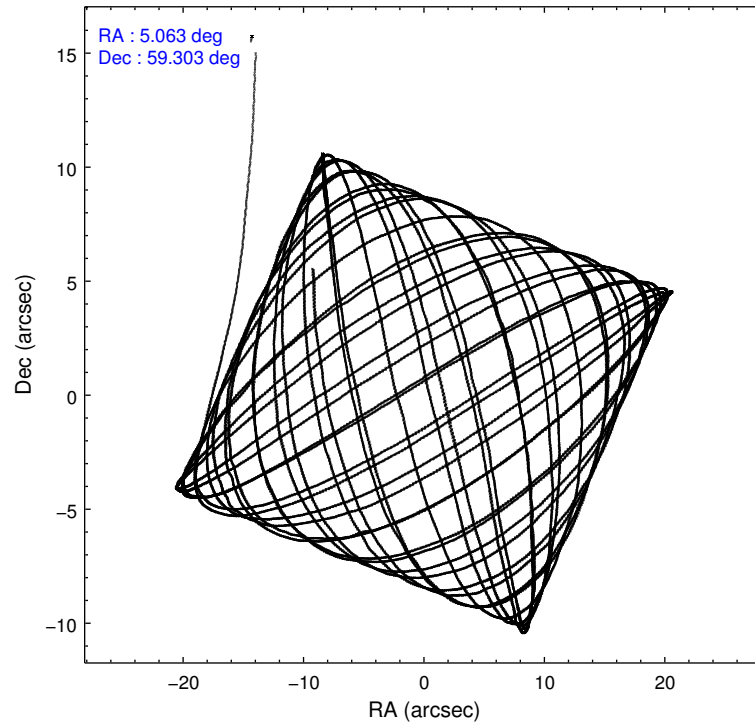
2.1.4 Events

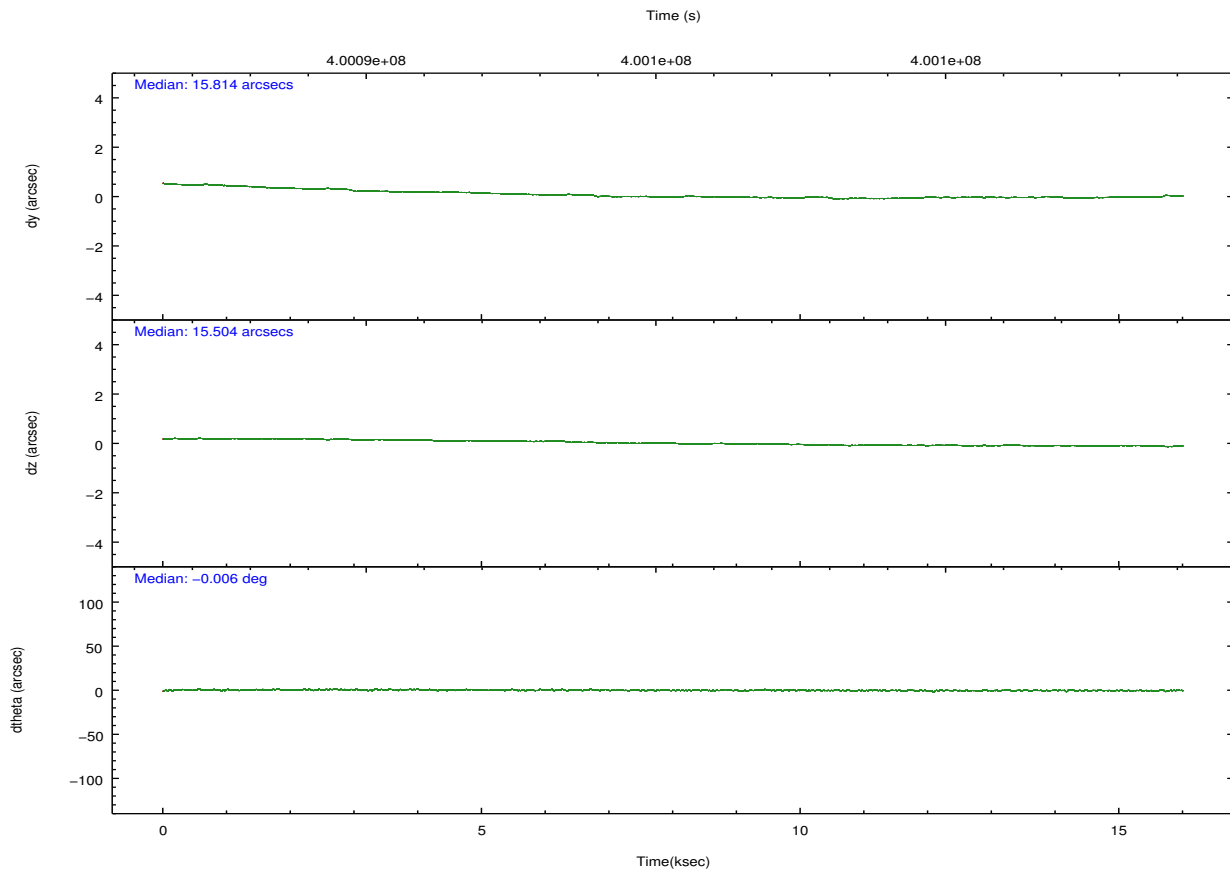
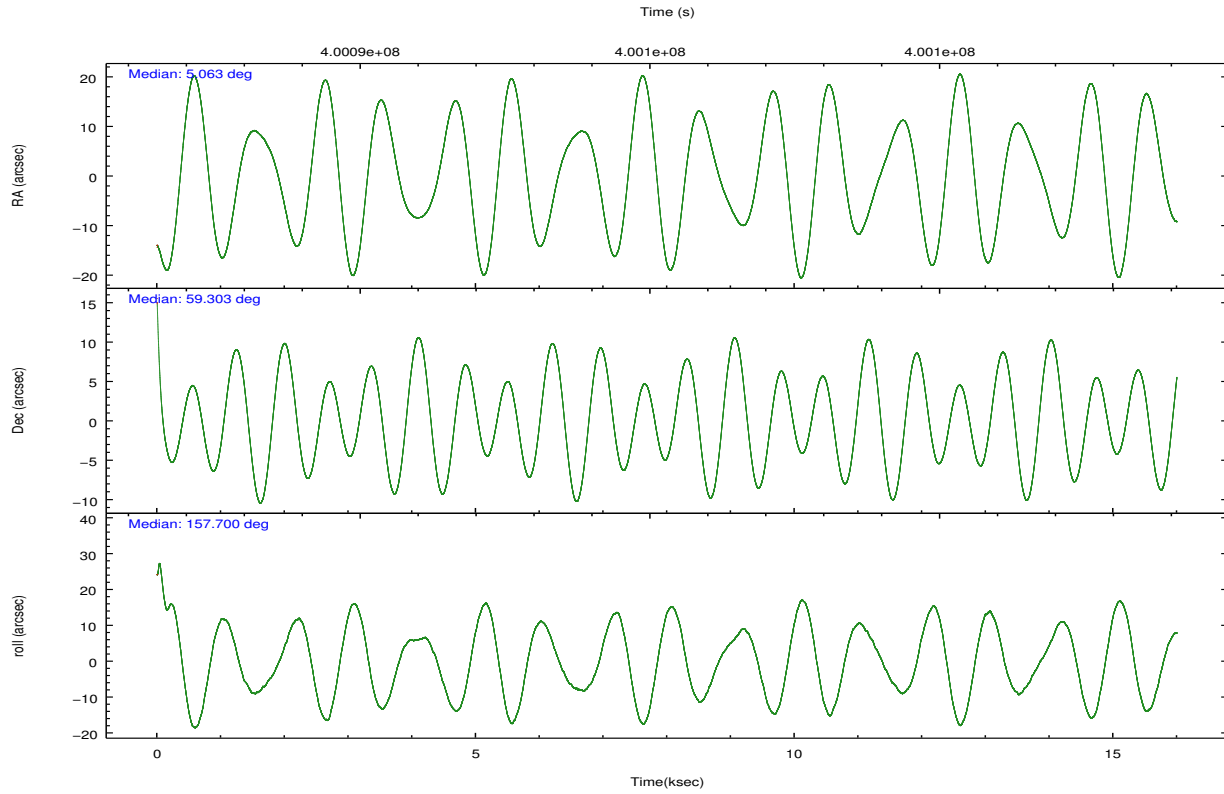
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	113303	108698	170364	122165	141560	149147	grade 0 events	4172	3949	7642	8876	6378	11416
rejected events	101334	97439	86691	104860	76892	110339		3%	3%	4%	7%	4%	7%
rejected %	89%	89%	50%	85%	54%	73%	grade 1 events	57	64	534	86	214	137
								0%	0%	0%	0%	0%	0%
							grade 2 events	2955	2431	25340	3047	13415	9133
								2%	2%	14%	2%	9%	6%
							grade 3 events	1243	1319	3230	1314	5688	4299
								1%	1%	1%	1%	4%	2%
							grade 4 events	1233	1270	3072	1298	5682	3883
								1%	1%	1%	1%	4%	2%
							grade 5 events	4301	4913	13106	5091	14825	7504
								3%	4%	7%	4%	10%	5%
							grade 6 events	2372	2292	44405	2772	33520	10079
								2%	2%	26%	2%	23%	6%
							grade 7 events	96970	92460	73035	99681	61838	102696
								85%	85%	42%	81%	43%	68%

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	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	5.115692	5.062685078952313	CCD I2 on	O2	Y
[deg] Pointing Dec	59.307022	59.30296388799416	CCD I3 on	O3	Y
[deg] Pointing Roll	157.505324	157.7075452201563	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O5	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)	400088302.184000	400086599.80064	CCD S5 on	N	N
Observation start date	2010-09-05T15:37:16	2010-09-05T15:09:59	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	400103302.184000	400104197.00154	On-chip summing requested	N	N
Observation end date	2010-09-05T19:47:16	2010-09-05T20:03:17	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



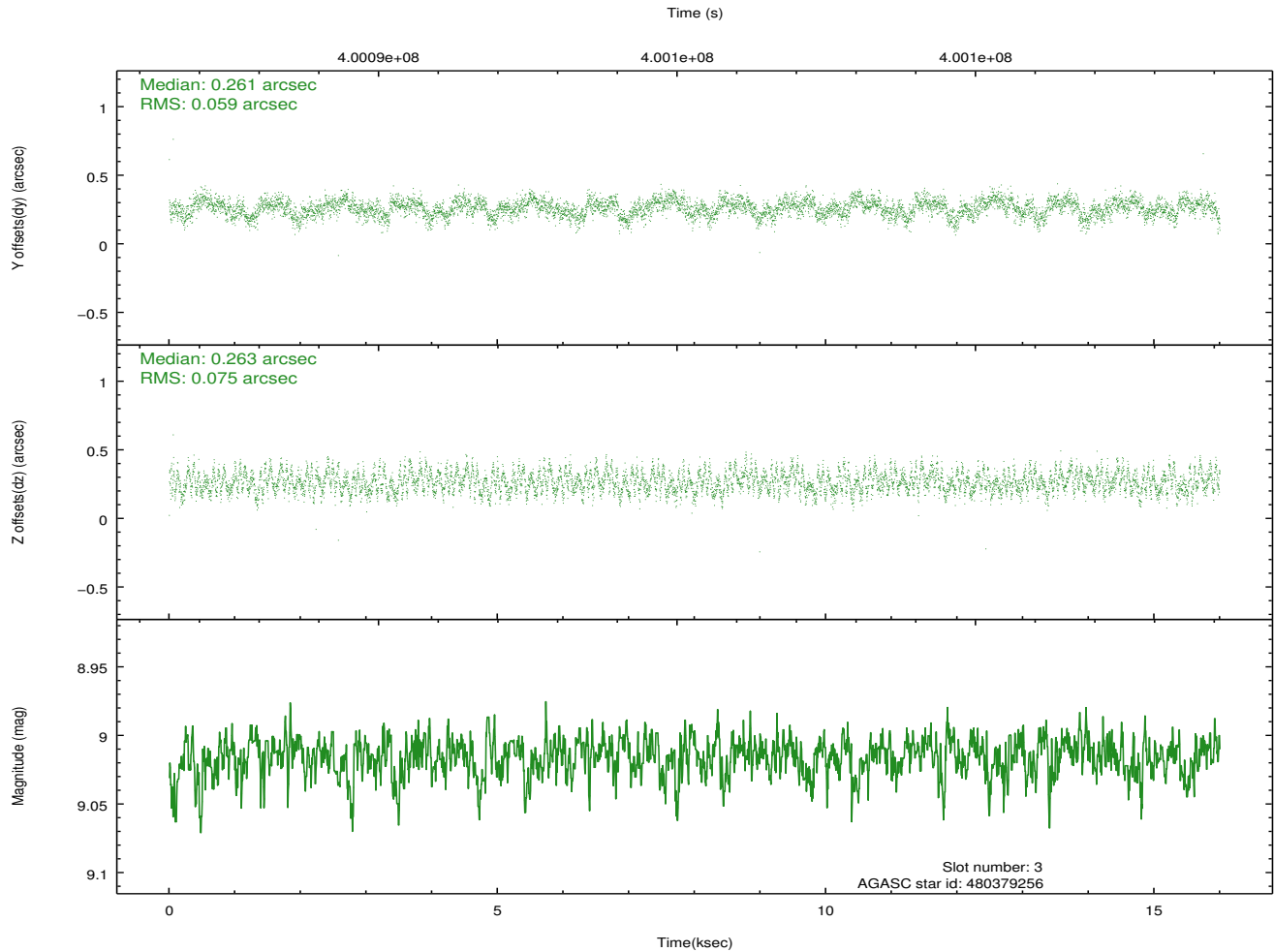
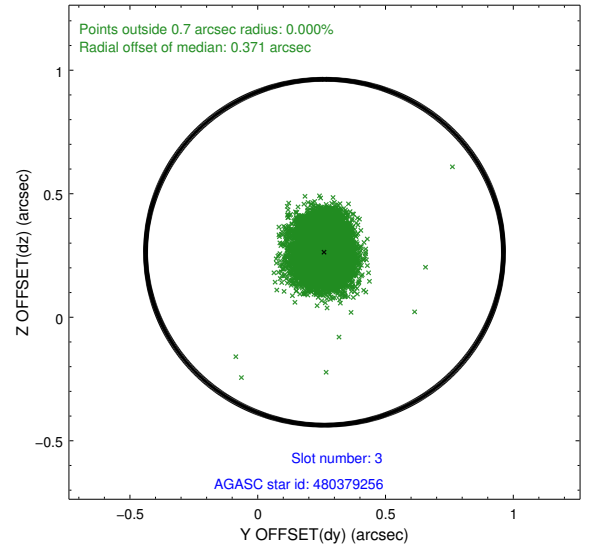
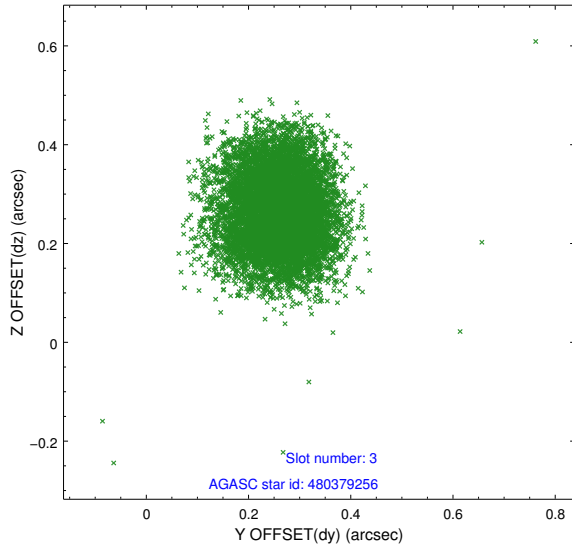


Slot Statistics

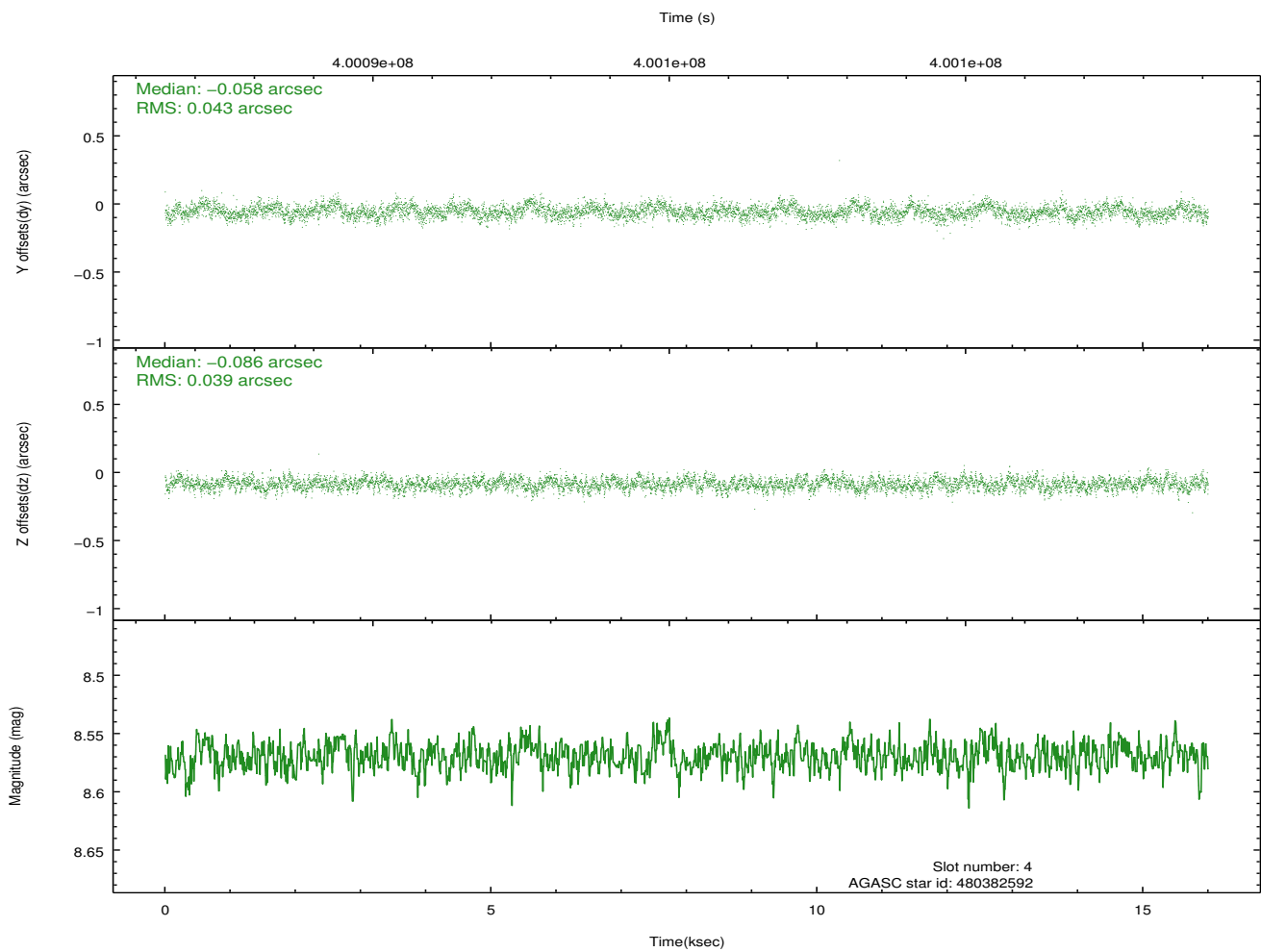
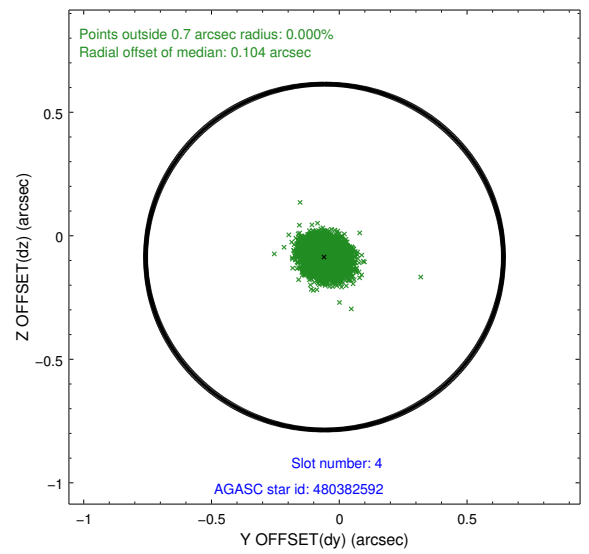
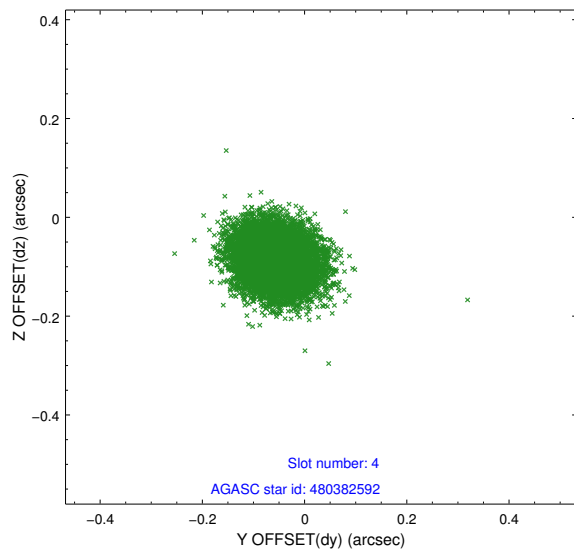
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	6.98	3903	0.136	-0.043	0.011	0.021	0.000000	0.000000	927.29	-1732.59
1	FID	ACIS-S-2	6.91	3903	-0.096	0.020	0.008	0.013	0.000000	0.000000	-768.70	-1737.37
2	FID	ACIS-S-5	7.02	3903	-0.064	0.030	0.009	0.017	0.000000	0.000000	-1822.20	164.74
3	GUIDE	480379256	9.02	7800	0.261	0.263	0.101	0.160	5.631259	59.673209	-359.73	-1579.71
4	GUIDE	480382592	8.57	7802	-0.058	-0.086	0.061	0.098	3.877912	59.161998	1918.60	1336.51
5	GUIDE	480383248	7.67	7804	-0.284	-0.069	0.072	0.116	4.828098	59.139041	259.81	760.85
6	GUIDE	480385632	8.15	7798	0.116	0.032	0.083	0.129	4.459917	59.057587	780.41	1288.63
7	GUIDE	480388568	8.34	7802	-0.037	-0.142	0.075	0.120	3.952528	59.440255	2157.78	354.36

2.4 Star Slots

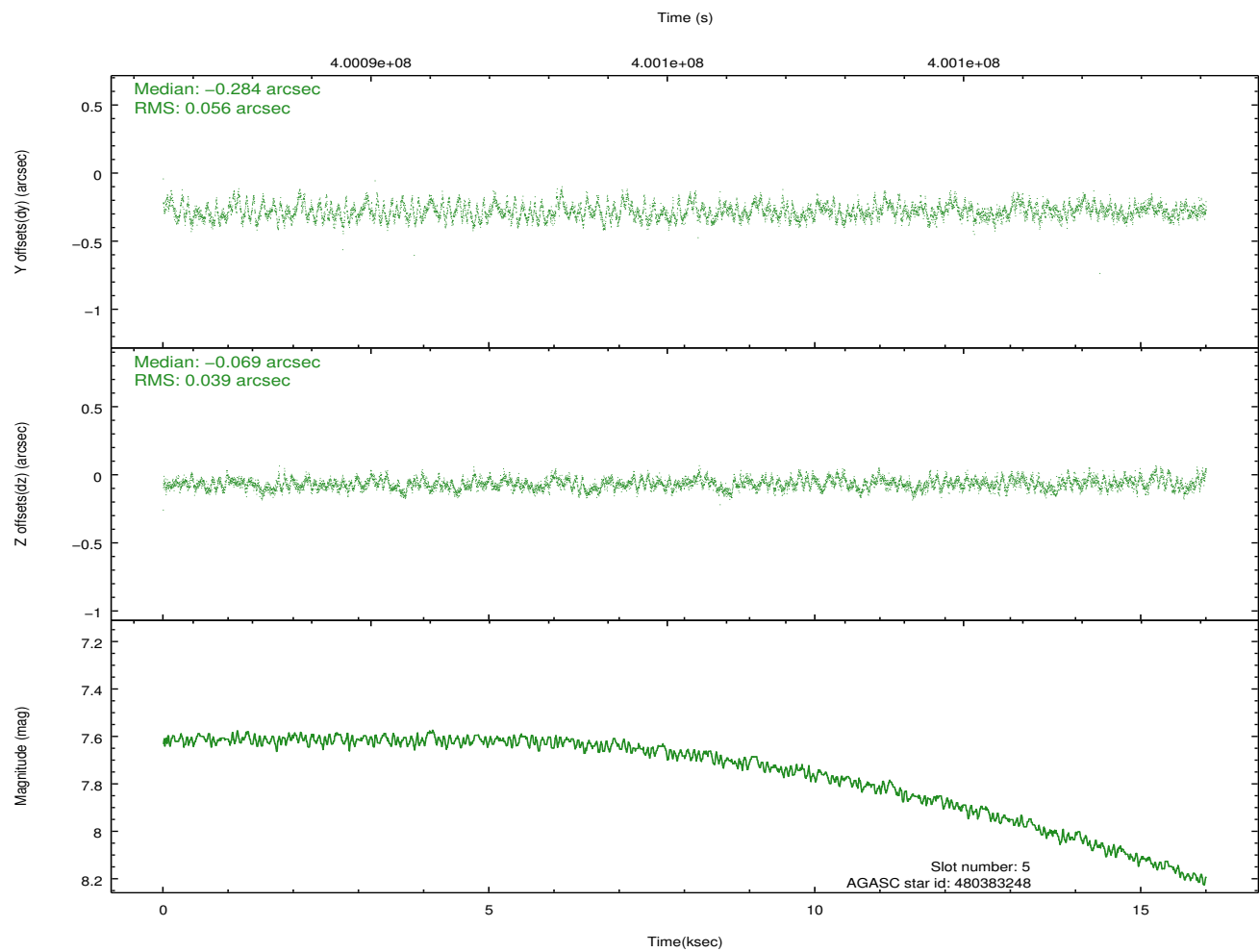
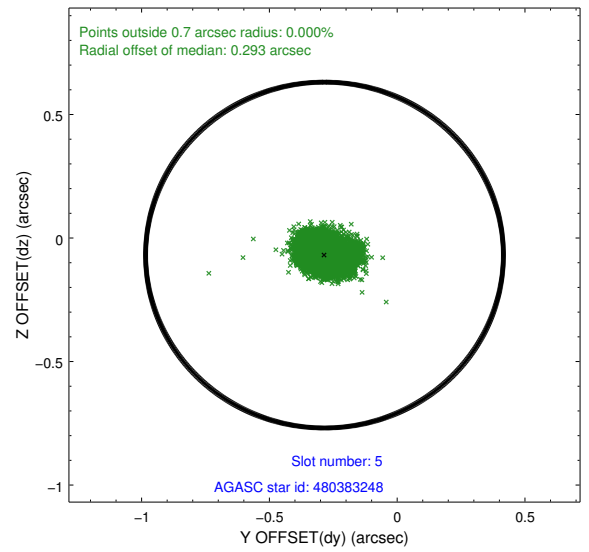
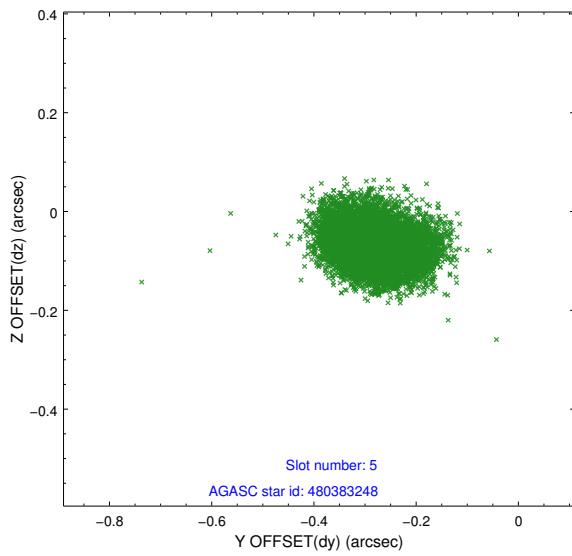
2.4.1 Slot 3



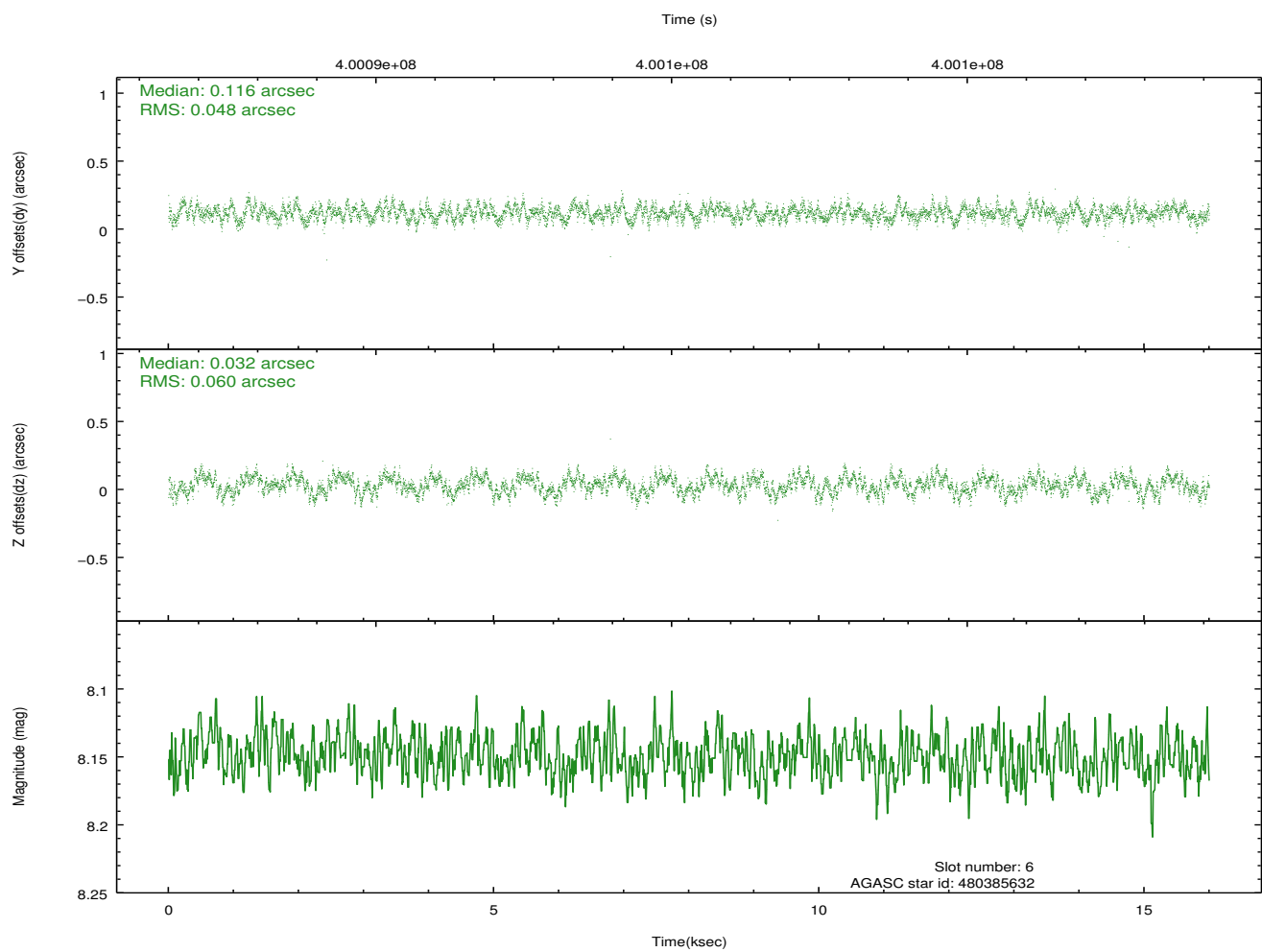
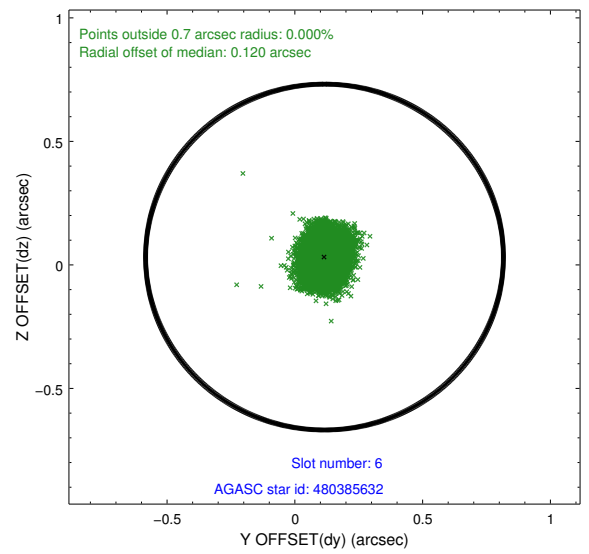
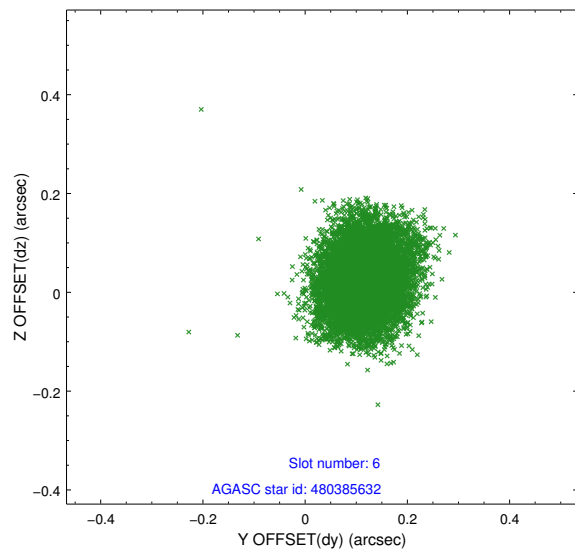
2.4.2 Slot 4



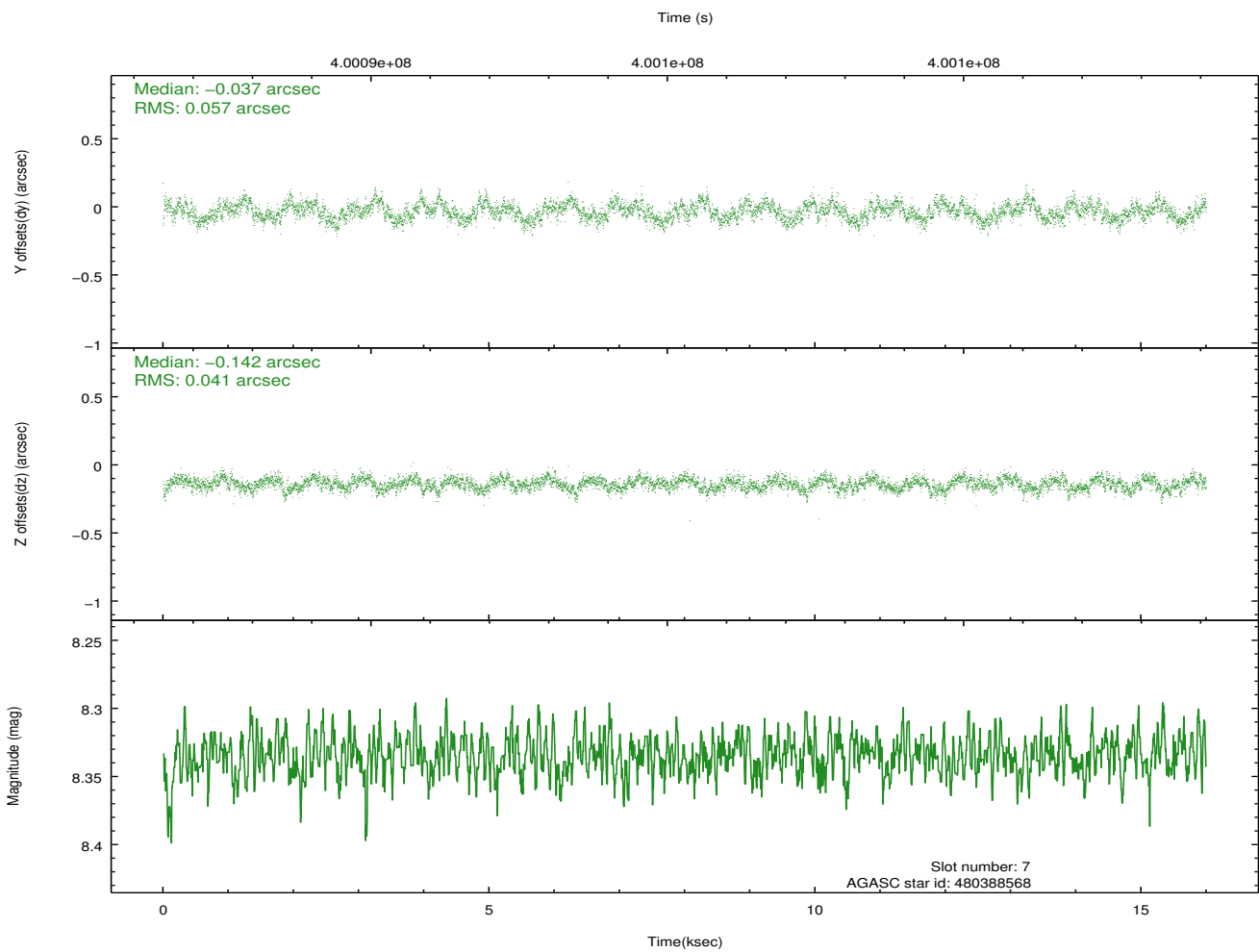
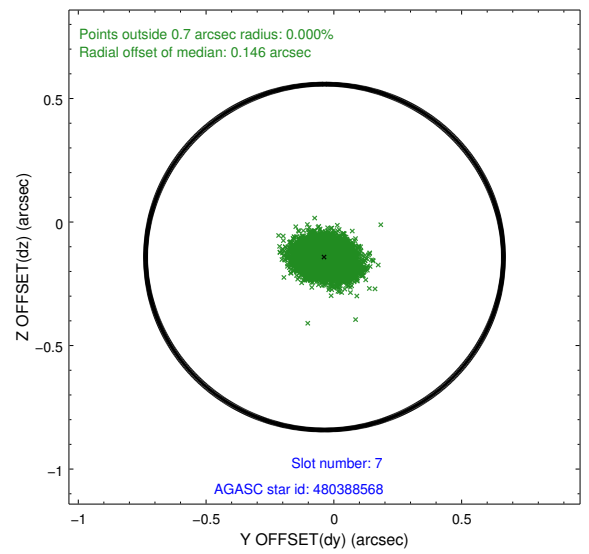
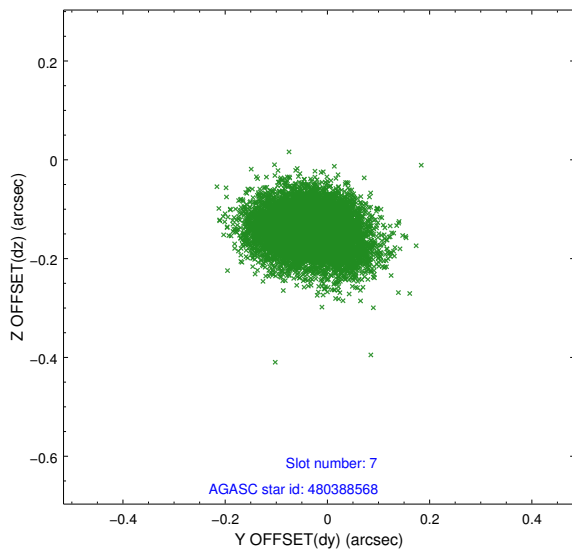
2.4.3 Slot 5



2.4.4 Slot 6

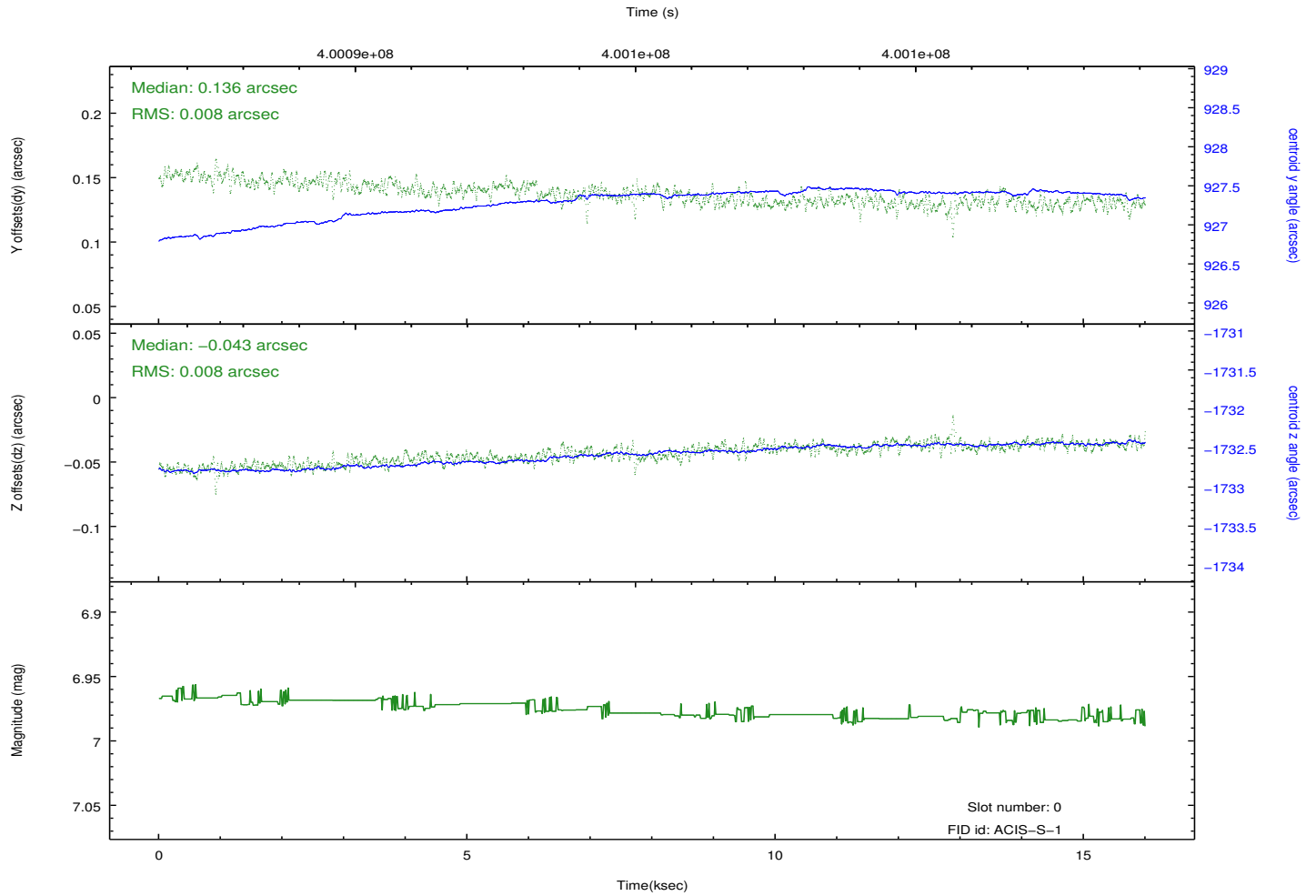
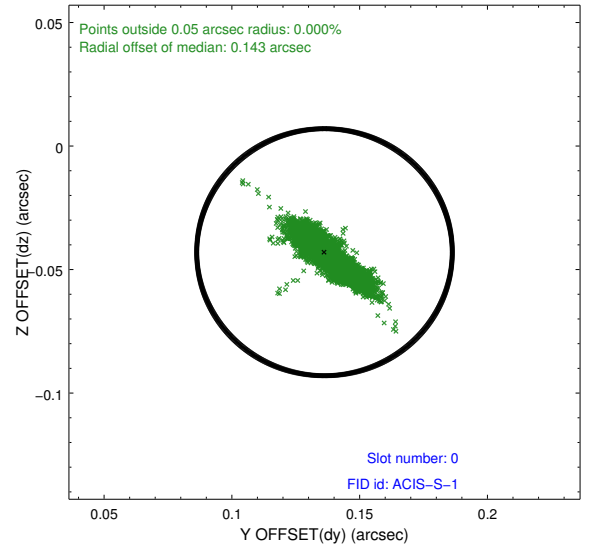
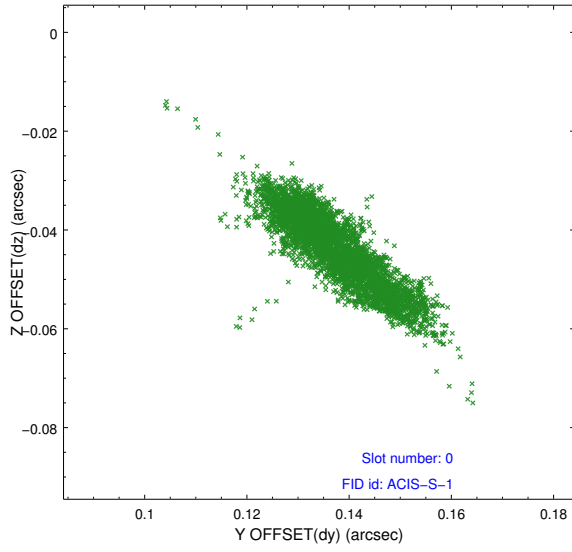


2.4.5 Slot 7

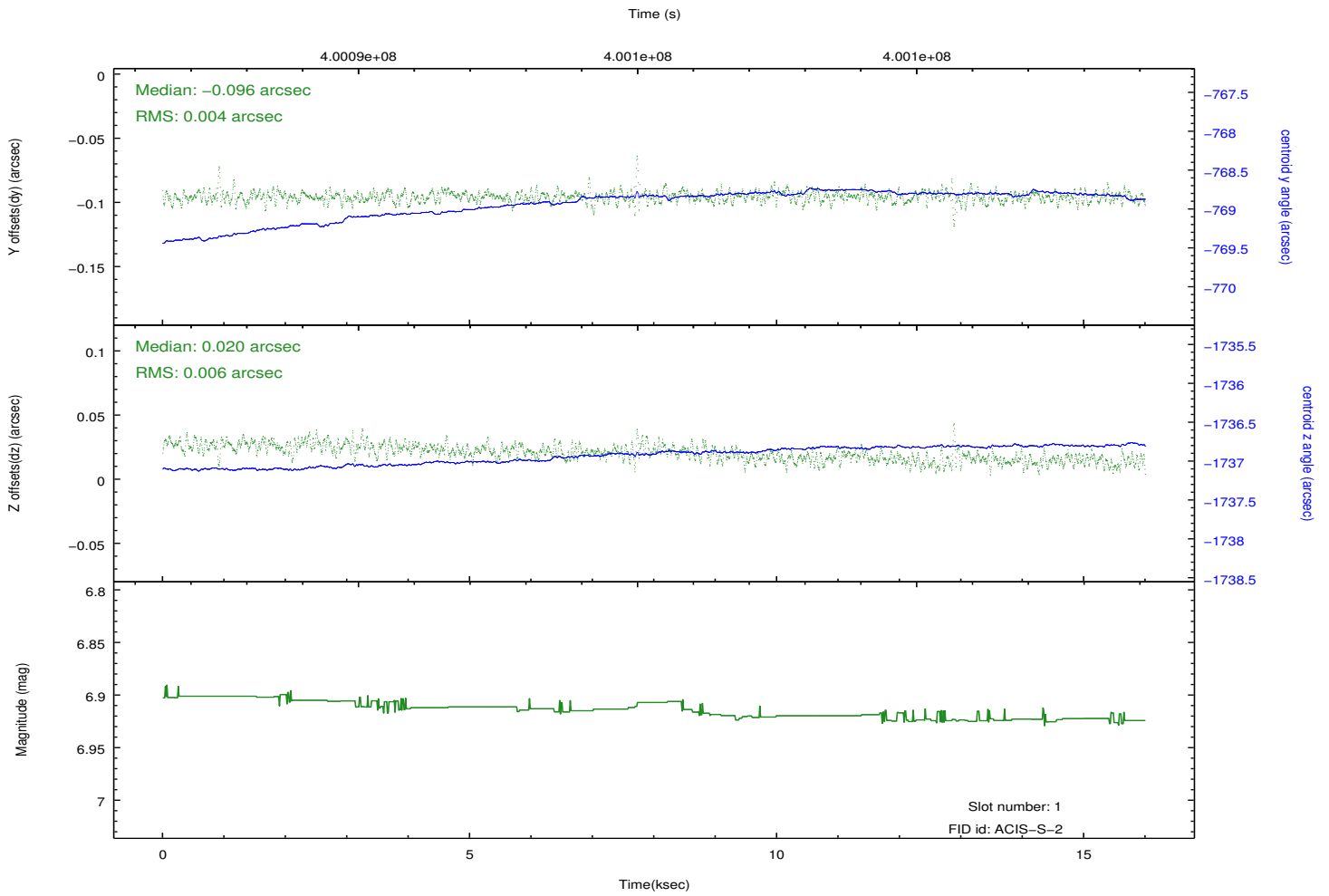
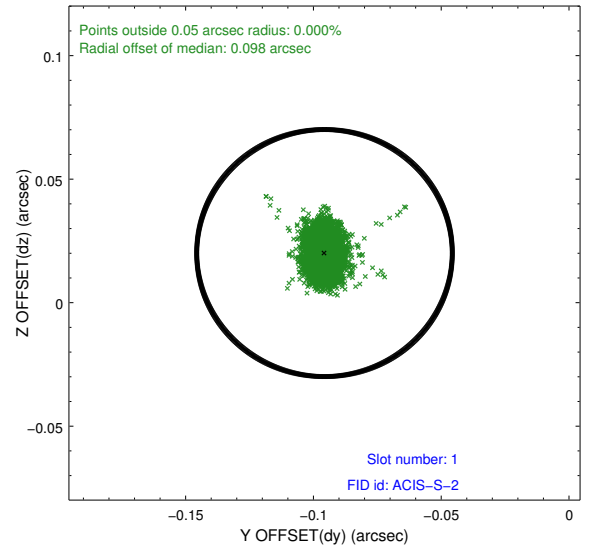
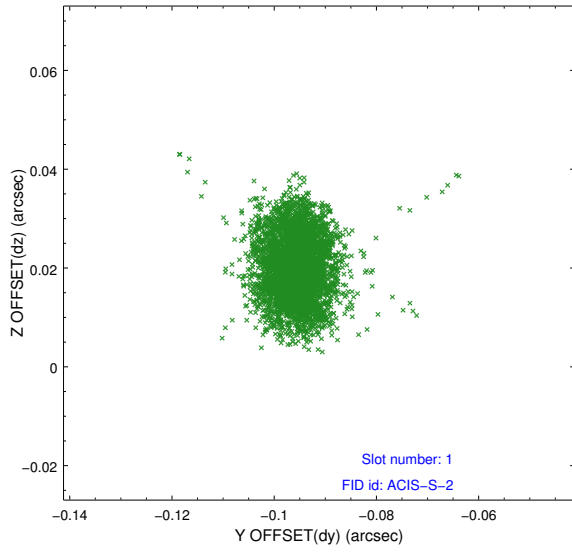


2.5 FID Slots

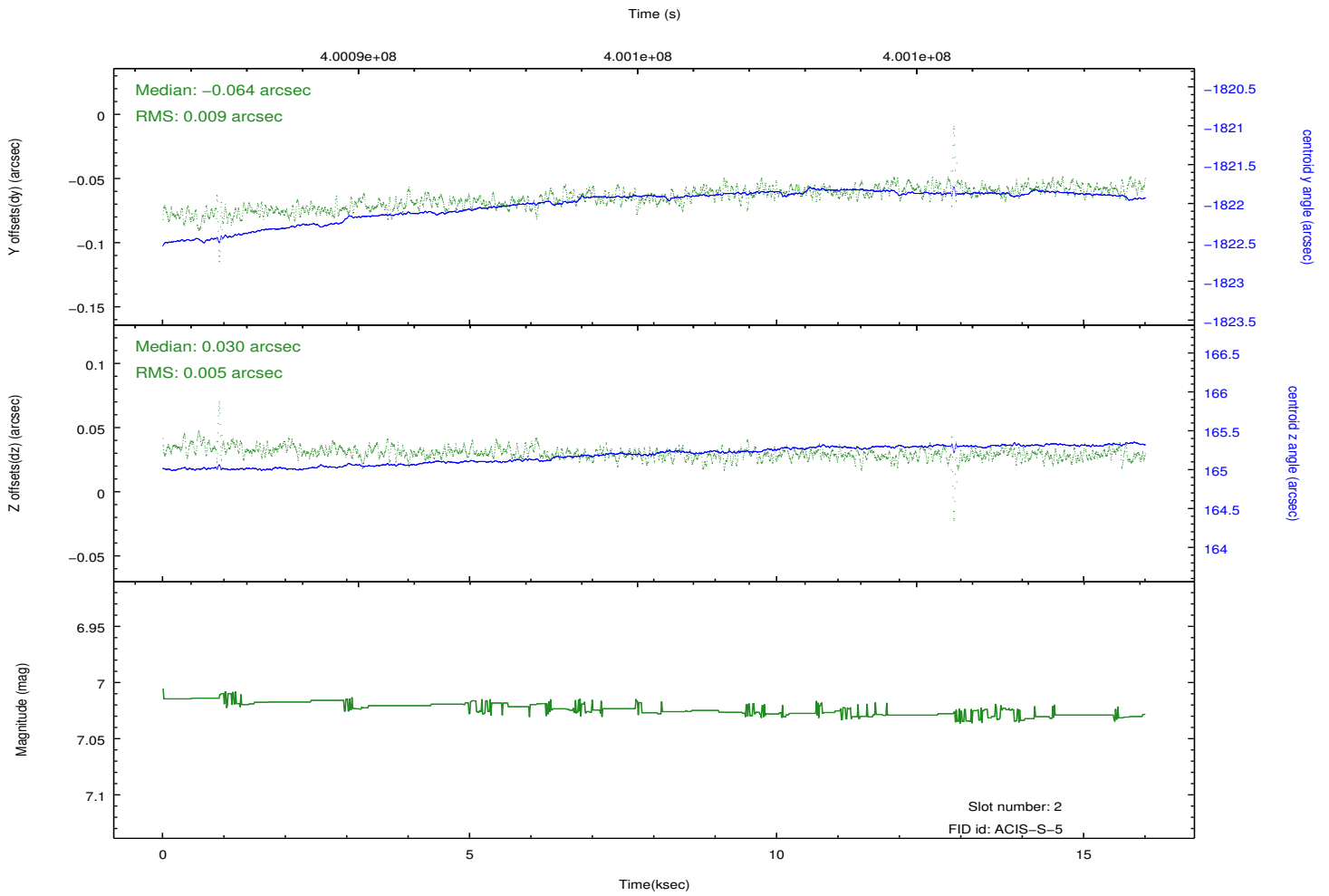
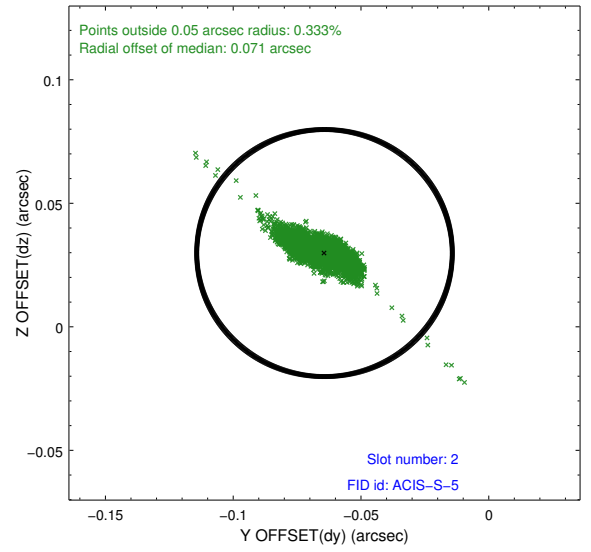
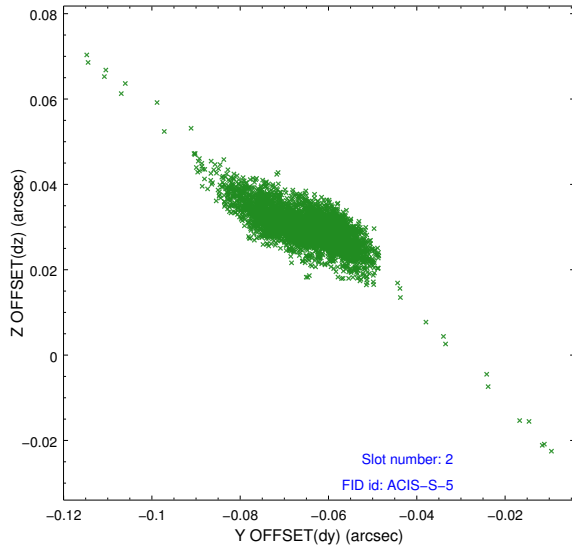
2.5.1 Slot 0



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)	2012.07.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.049599943995

A.2 Comments