

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 11176 - L2 Version 2
Chandra X-Ray Center

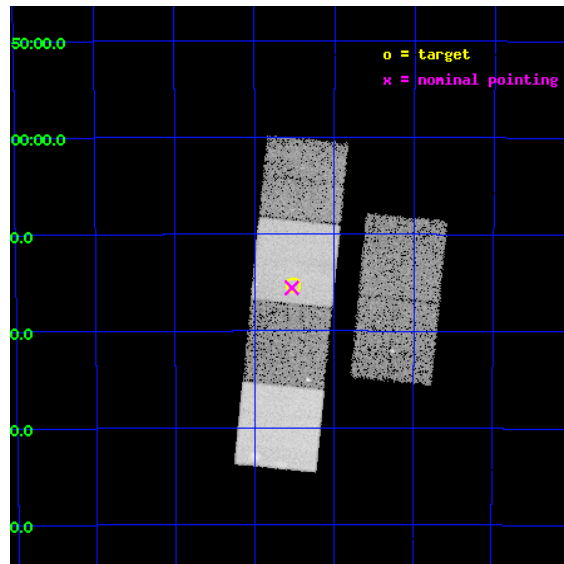
L2 Processing Date : Jun 23 2012

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

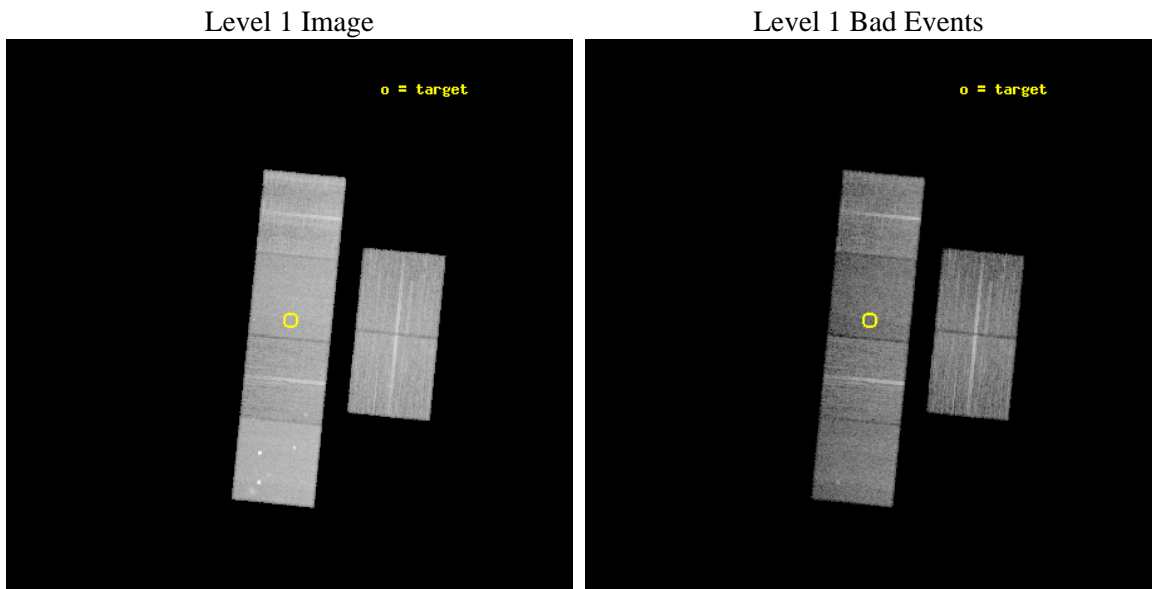
seq_num	501261	Sequence number
obs_id	11176	Observation id
title	An In-Depth Study of the Nearest Gamma-Ray Bursts	Proposal title
observer	Prof Alicia Soderberg	Principal investigator
object	GRB100316d	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	107.627625	Observer's specified target RA [deg]
dec_targ	-56.255472	Observer's specified target Dec [deg]
ra_nom	107.63290103478	Nominal RA [deg]
dec_nom	-56.259370533089	Nominal Dec [deg]
roll_nom	275.66909272275	Nominal Roll [deg]
revision	2	Processing version of data
ontime	14147.199947357	Sum of GTIs [s]
livetime	13968.059583203	Livetime [s]
ontime2	14147.199947357	Sum of GTIs [s]
ontime3	14147.199947357	Sum of GTIs [s]
ontime5	14147.199947357	Sum of GTIs [s]
ontime6	14147.199947357	Sum of GTIs [s]
ontime7	14147.199947357	Sum of GTIs [s]
ontime8	14147.199947357	Sum of GTIs [s]
l2events	178992	Number of level 2 events



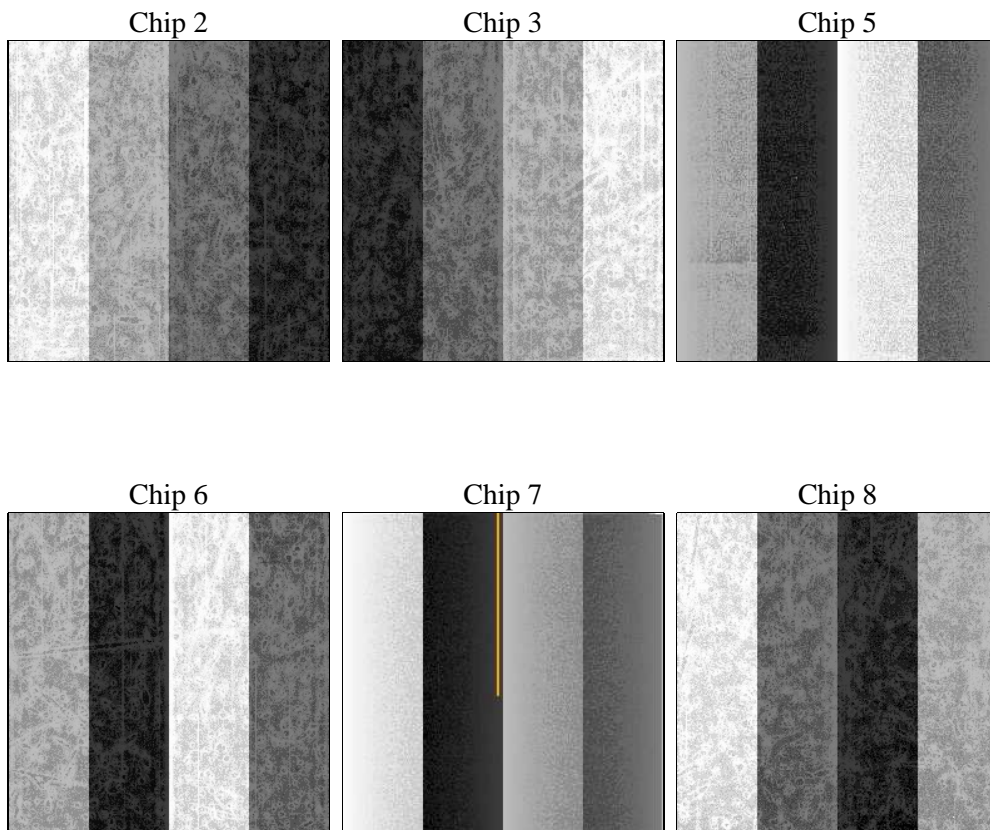
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	14101.095000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	14147.199947357	Sum of GTIs [s]
caldbver	4.4.10	 	ontime2	14147.199947357	Sum of GTIs [s]
date	2012-06-23T18:26:27	Date and time of file creation	ontime3	14147.199947357	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	14147.199947357	Sum of GTIs [s]
			ontime6	14147.199947357	Sum of GTIs [s]
			ontime7	14147.199947357	Sum of GTIs [s]
			ontime8	14147.199947357	Sum of GTIs [s]
			l1events	780172	Number of level 1 events

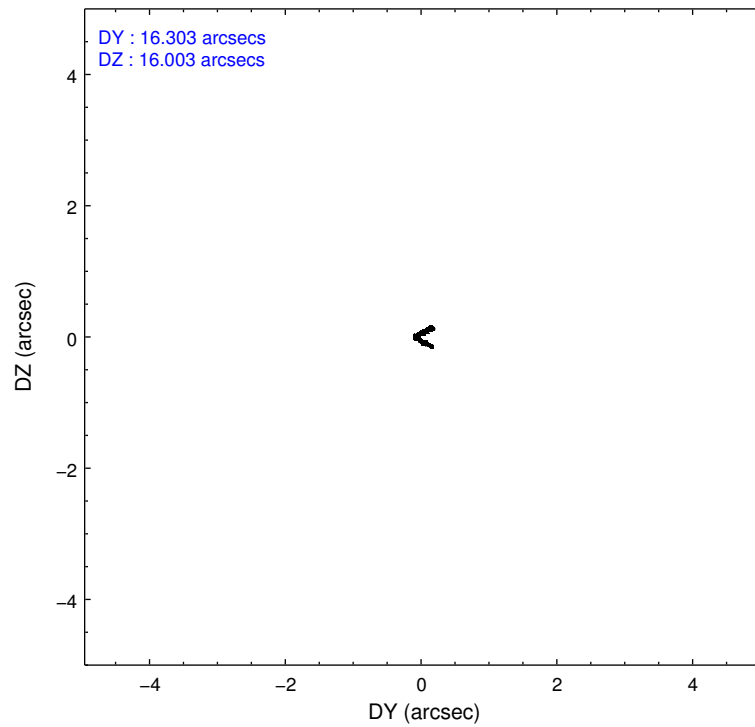
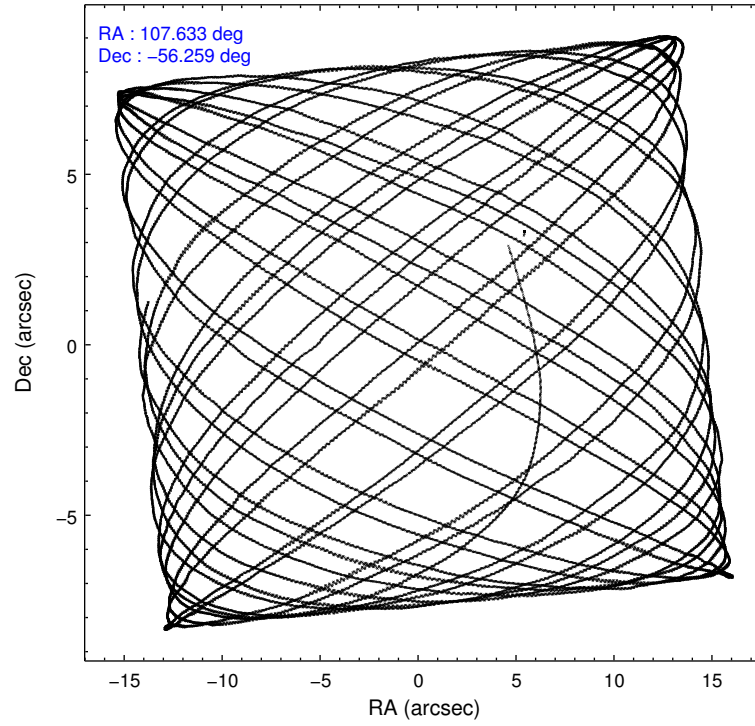
2.1.4 Events

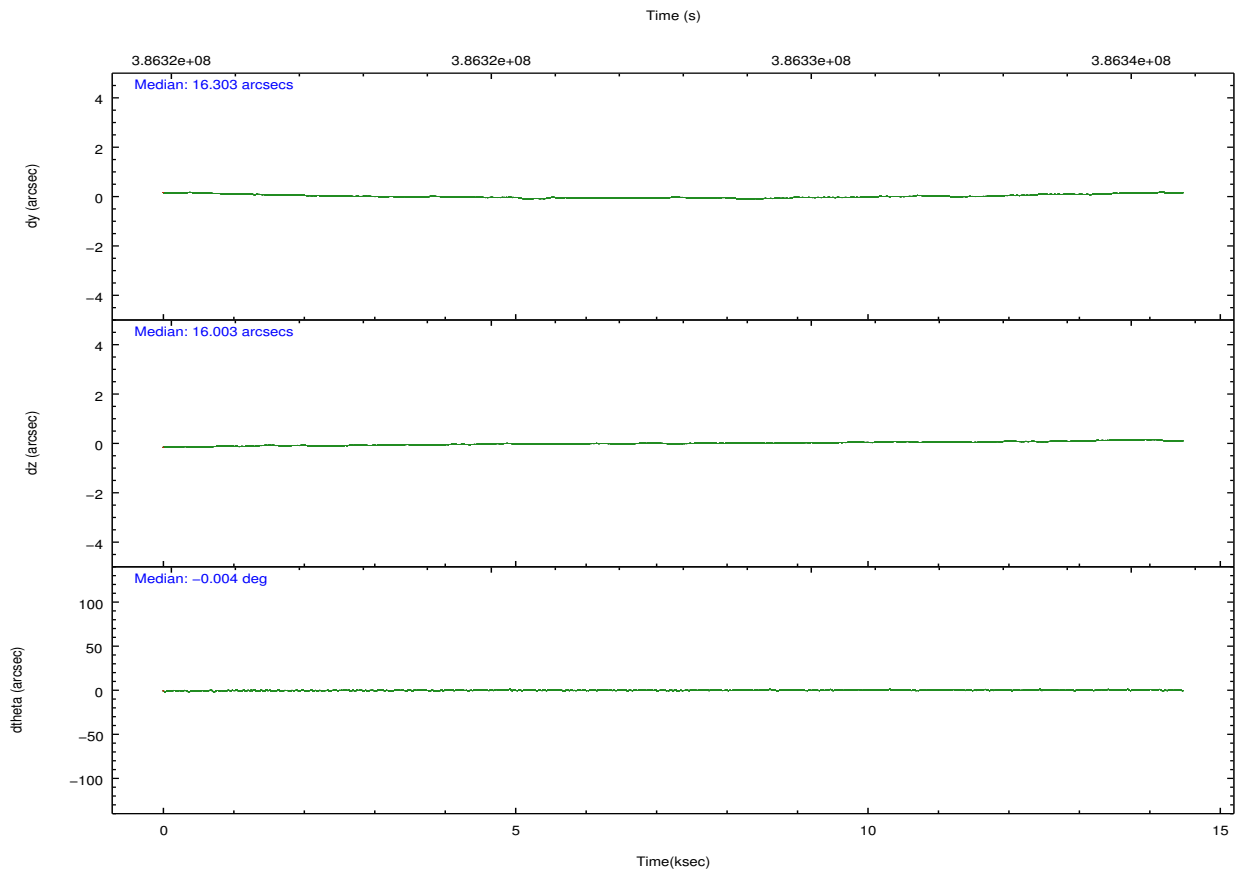
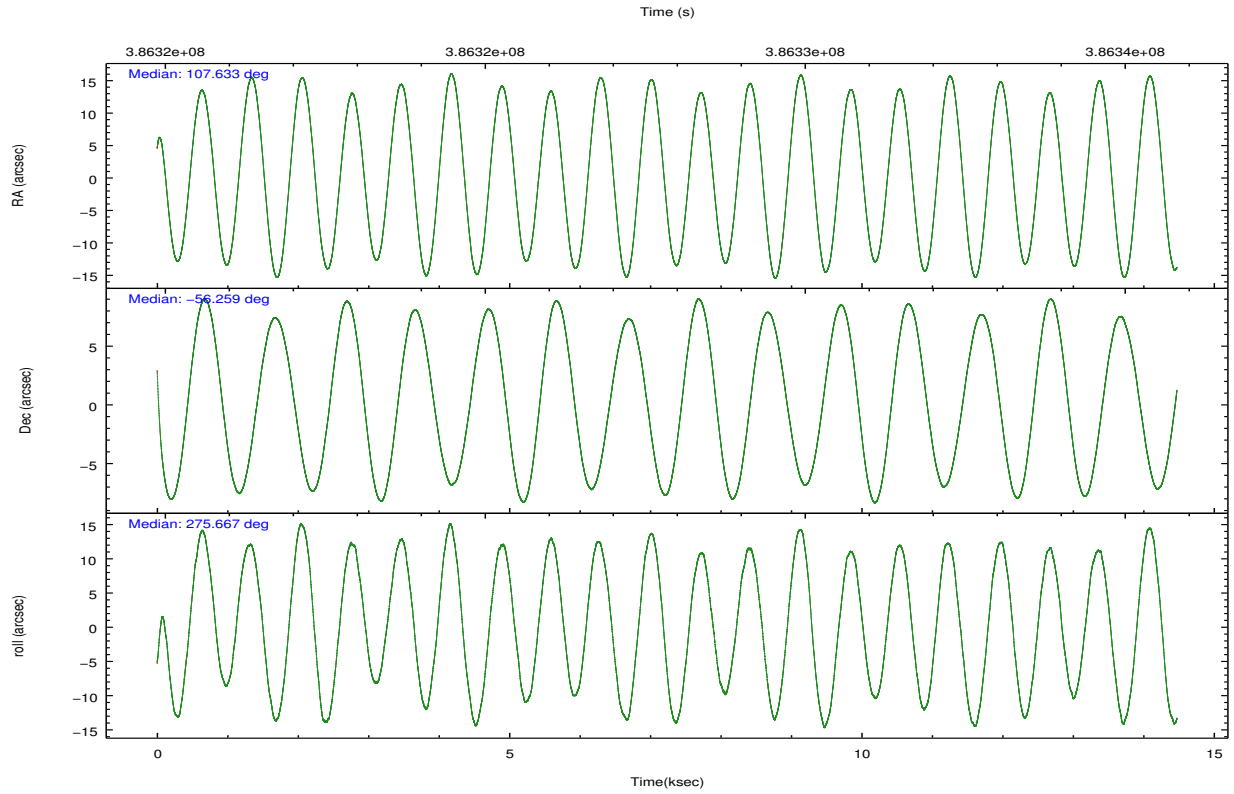
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	118907	105285	168979	112656	132496	141849	grade 0 events	4363	3752	11069	4564	5570	10983
rejected events	106923	94349	83030	100077	72387	104674		3%	3%	6%	4%	4%	7%
rejected %	89%	89%	49%	88%	54%	73%	grade 1 events	63	61	441	54	163	119
								0%	0%	0%	0%	0%	0%
							grade 2 events	2942	2571	25231	2738	12491	8627
								2%	2%	14%	2%	9%	6%
							grade 3 events	1226	1187	3307	1315	5368	3961
								1%	1%	1%	1%	4%	2%
							grade 4 events	1167	1165	3225	1331	5448	3746
								0%	1%	1%	1%	4%	2%
							grade 5 events	4244	4838	12473	4923	13932	6940
								3%	4%	7%	4%	10%	4%
							grade 6 events	2294	2266	43142	2638	31261	9864
								1%	2%	25%	2%	23%	6%
							grade 7 events	102608	89445	70091	95093	58263	97609
								86%	84%	41%	84%	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	107.603691	107.6329010347836	CCD I2 on	O1	Y
[deg] Pointing Dec	-56.237319	-56.2593705330893	CCD I3 on	O2	Y
[deg] Pointing Roll	275.488187	275.6690927227474	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)	386320977.184000	386319825.12332	CCD S5 on	N	N
Observation start date	2010-03-30T07:21:51	2010-03-30T07:03:45	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	386335078.184000	386335301.5991	On-chip summing requested	N	N
Observation end date	2010-03-30T11:16:52	2010-03-30T11:21:41	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



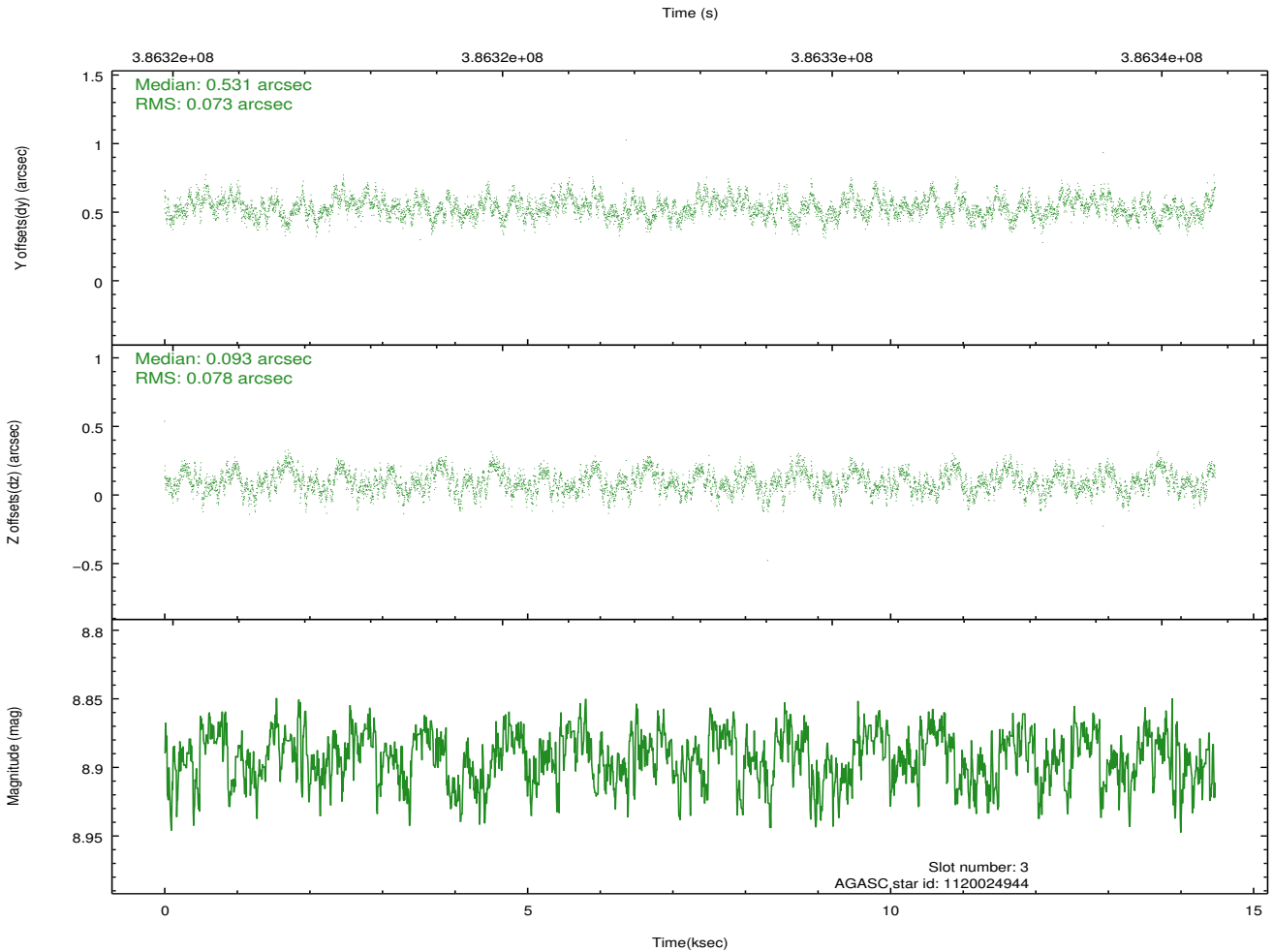
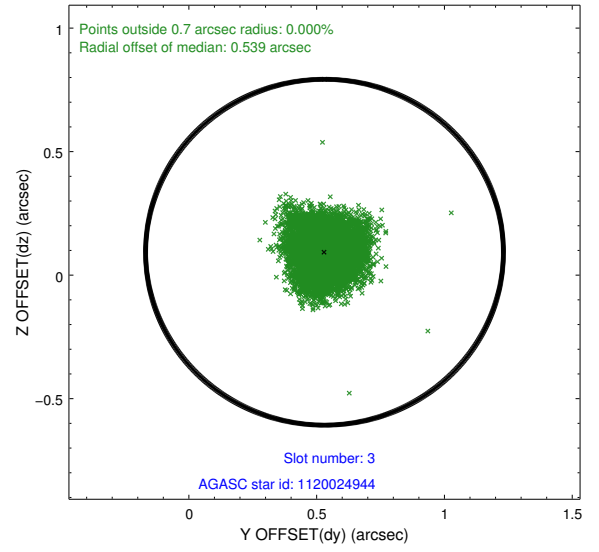
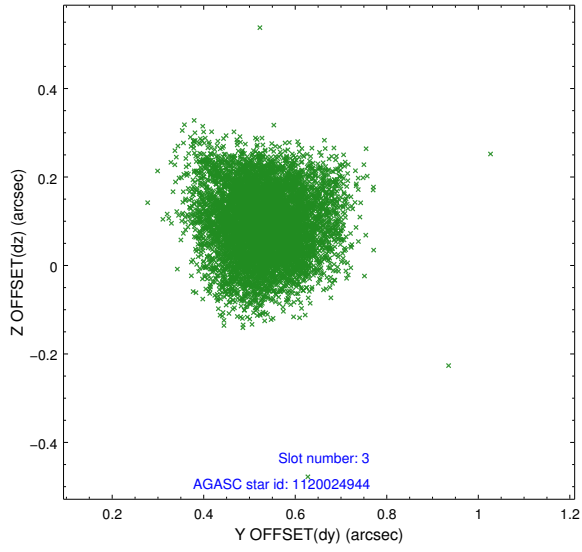


Slot Statistics

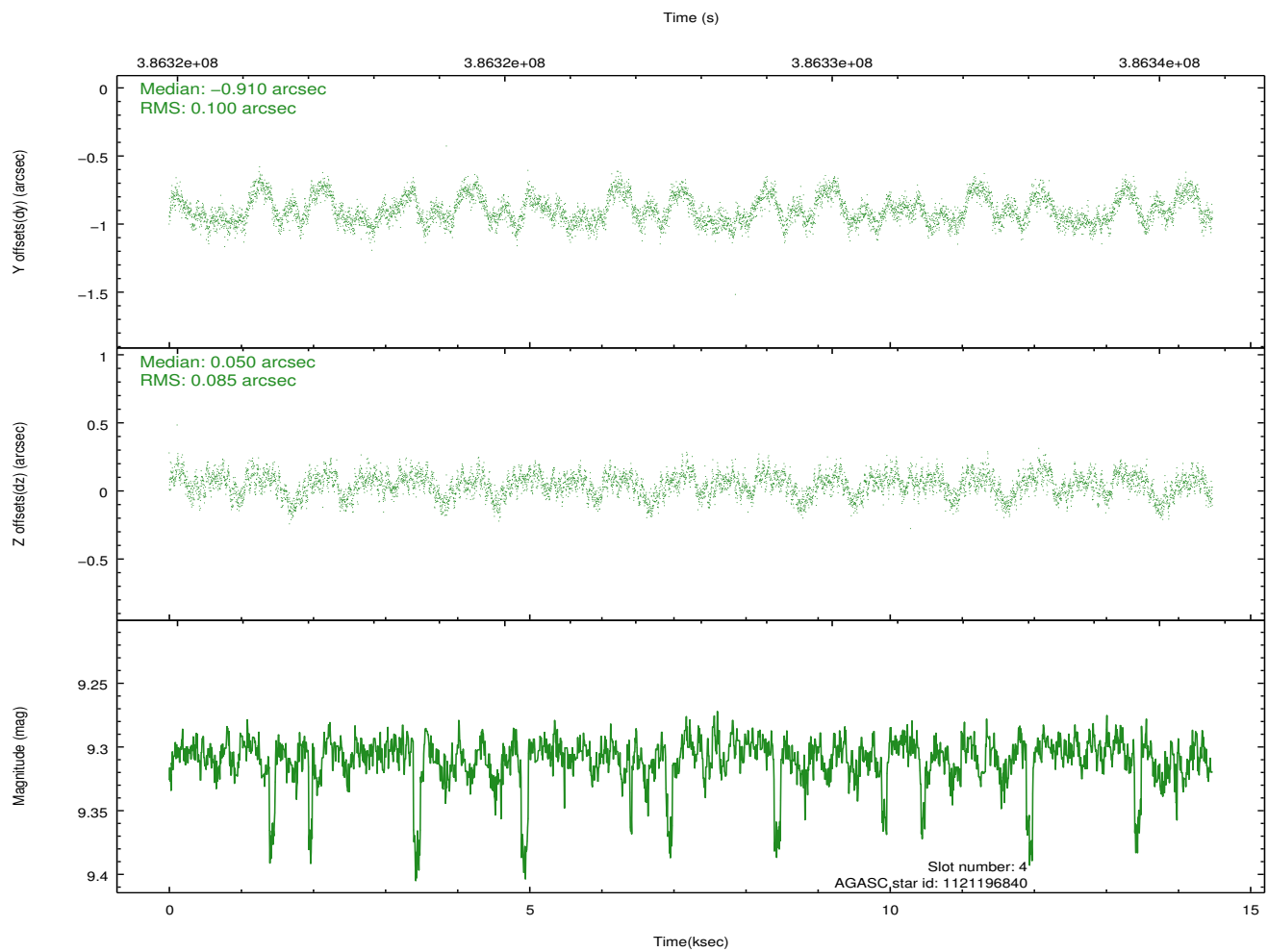
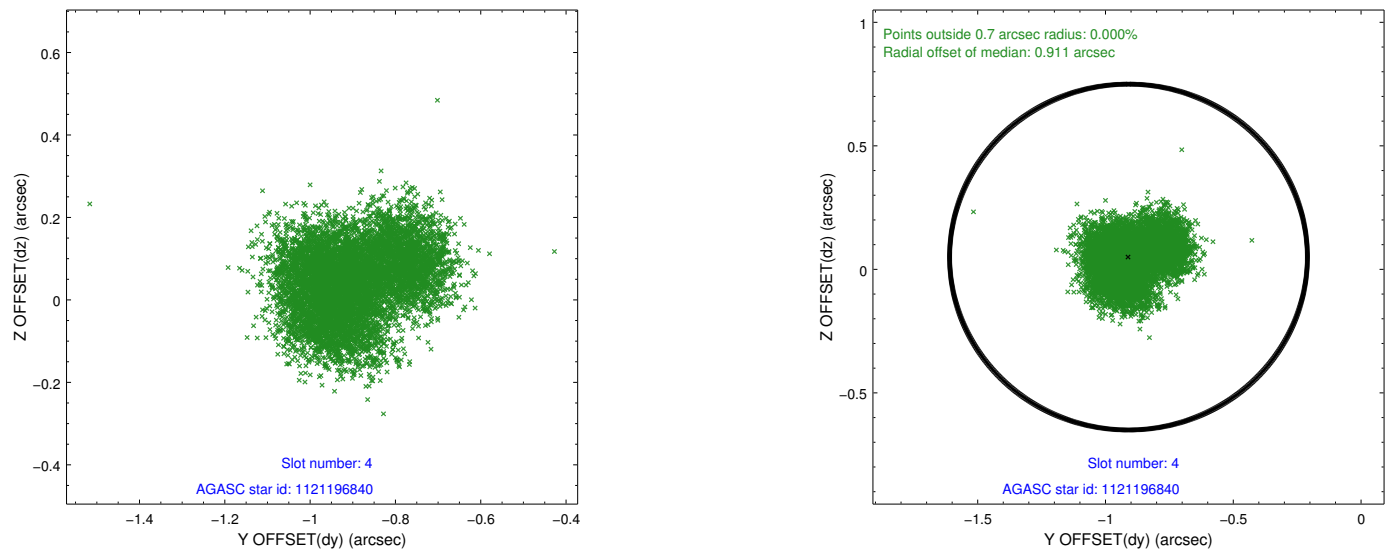
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.89	3531	-0.100	-0.024	0.007	0.013	0.000000	0.000000	-769.41	-1737.44
1	FID	ACIS-S-4	6.97	3531	0.194	0.055	0.006	0.012	0.000000	0.000000	2144.00	170.81
2	FID	ACIS-S-5	7.00	3531	-0.125	-0.022	0.007	0.012	0.000000	0.000000	-1821.88	164.75
3	GUIDE	1120024944	8.89	7052	0.531	0.093	0.115	0.179	106.619042	-56.645754	1291.96	-2081.69
4	GUIDE	1121196840	9.31	7025	-0.910	0.050	0.145	0.220	106.760564	-55.770992	-1824.86	-1539.83
5	GUIDE	1121199304	8.41	7058	0.319	0.061	0.066	0.106	107.437468	-55.725843	-1864.81	-159.16
6	GUIDE	1121203176	8.99	7059	0.092	-0.185	0.083	0.137	108.340759	-55.571247	-2235.89	1722.13
7	GUIDE	1121727576	8.33	7055	-0.052	-0.016	0.063	0.100	108.380481	-56.724378	1900.17	1359.54

2.4 Star Slots

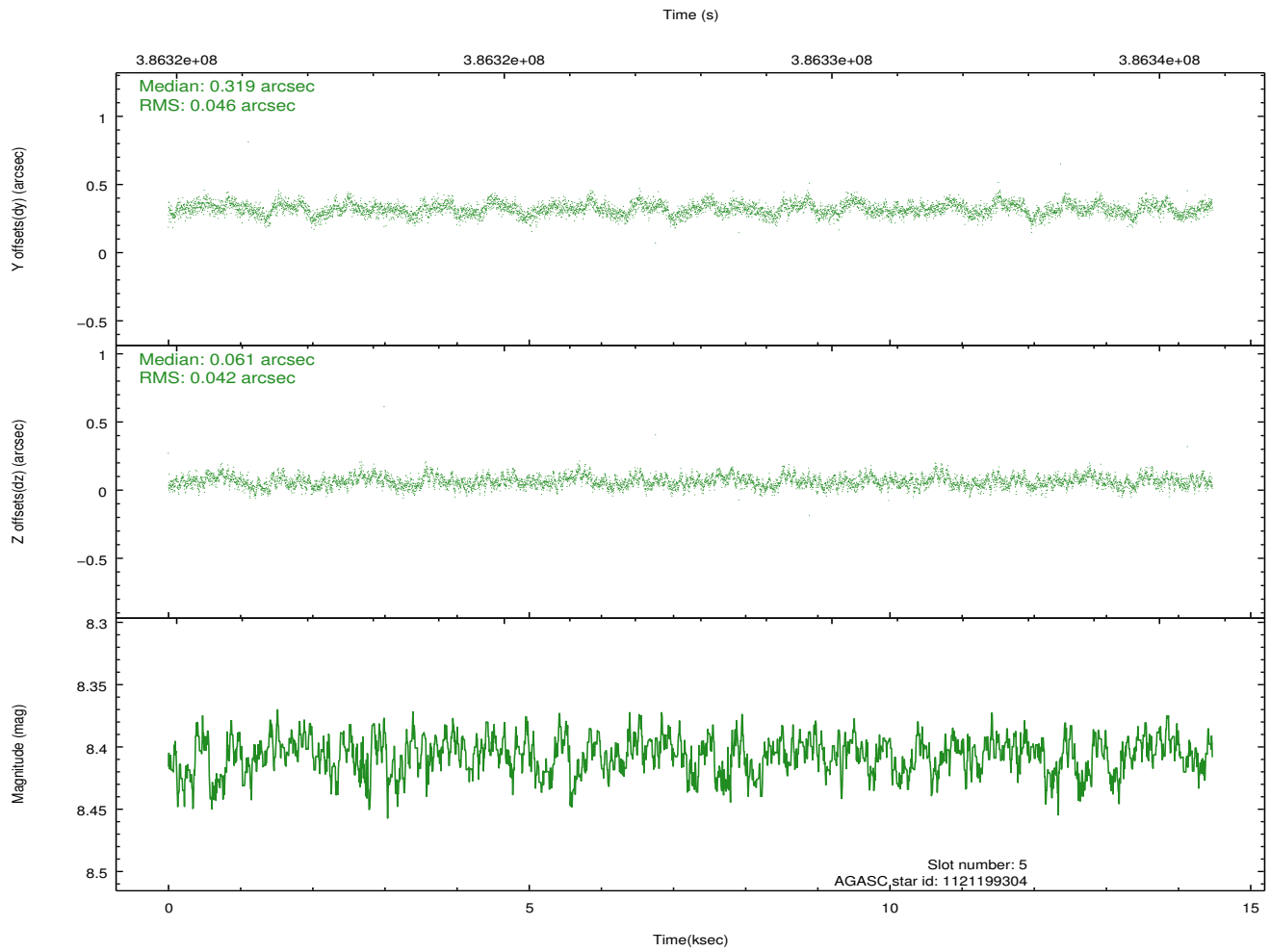
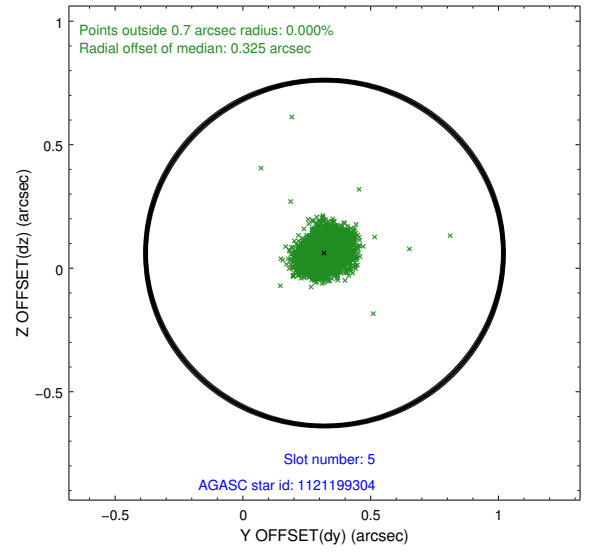
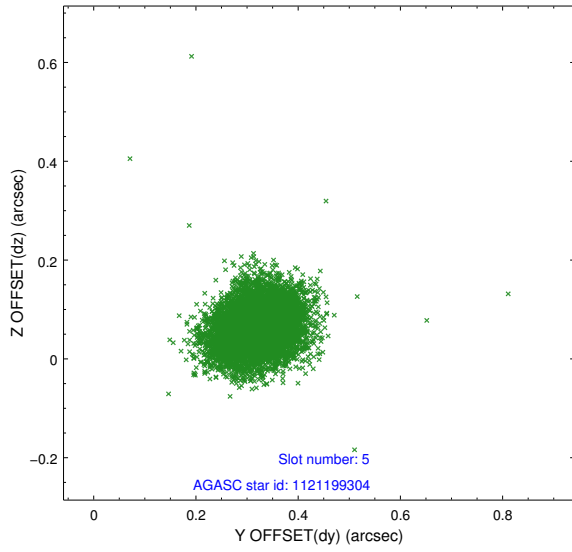
2.4.1 Slot 3



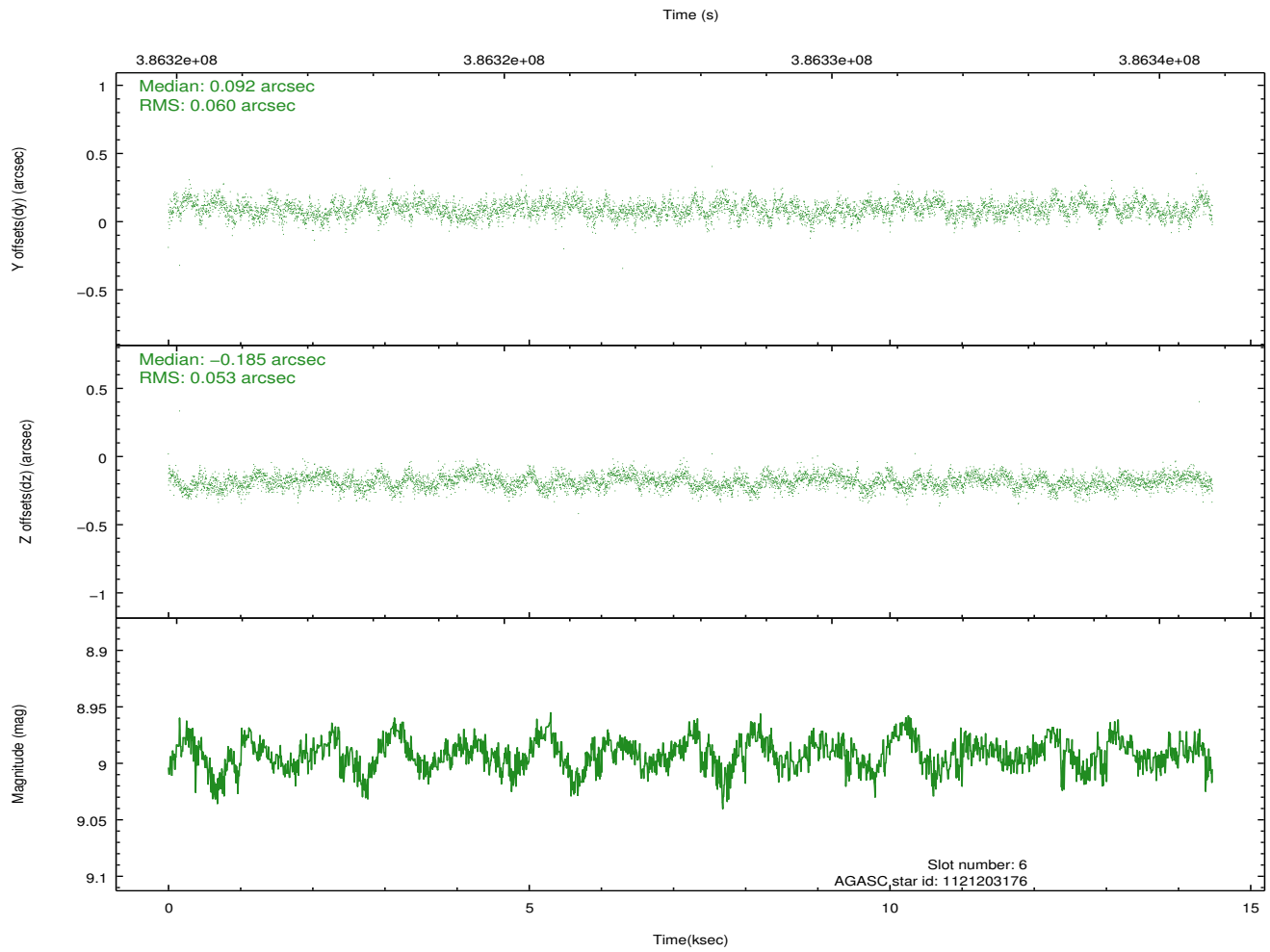
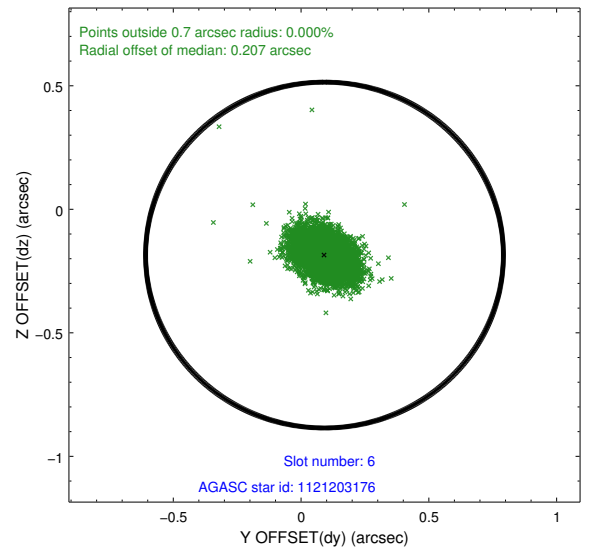
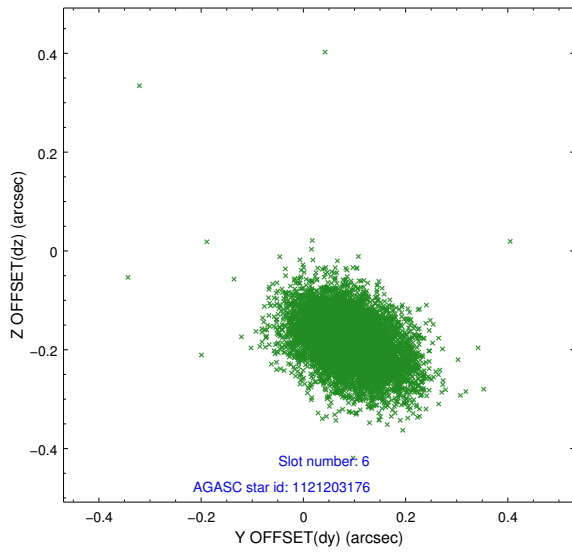
2.4.2 Slot 4



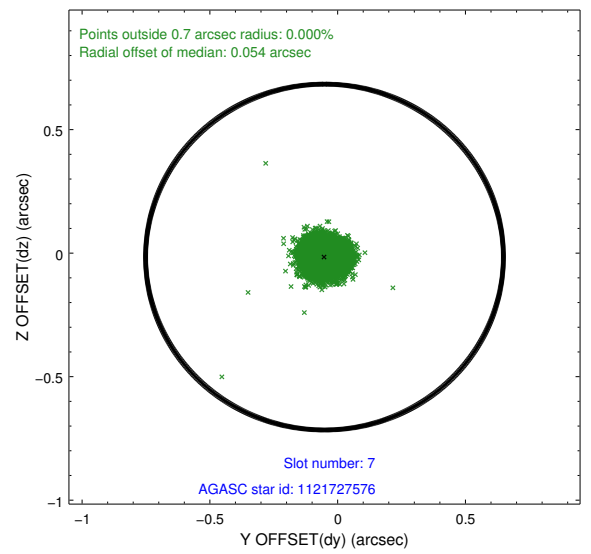
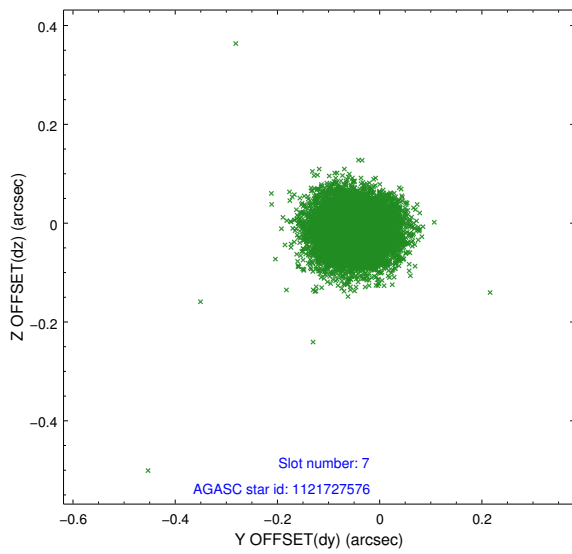
2.4.3 Slot 5



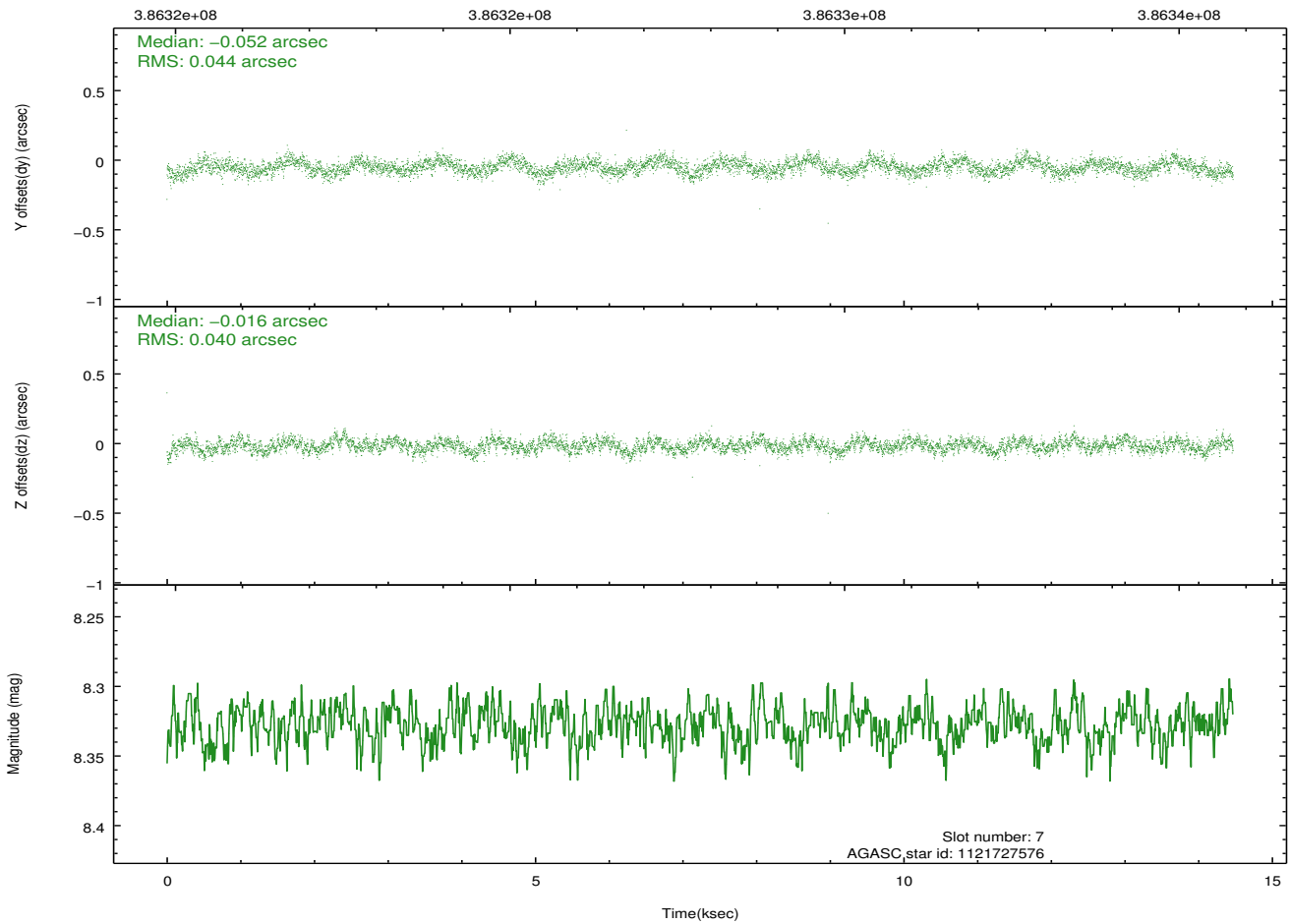
2.4.4 Slot 6



2.4.5 Slot 7

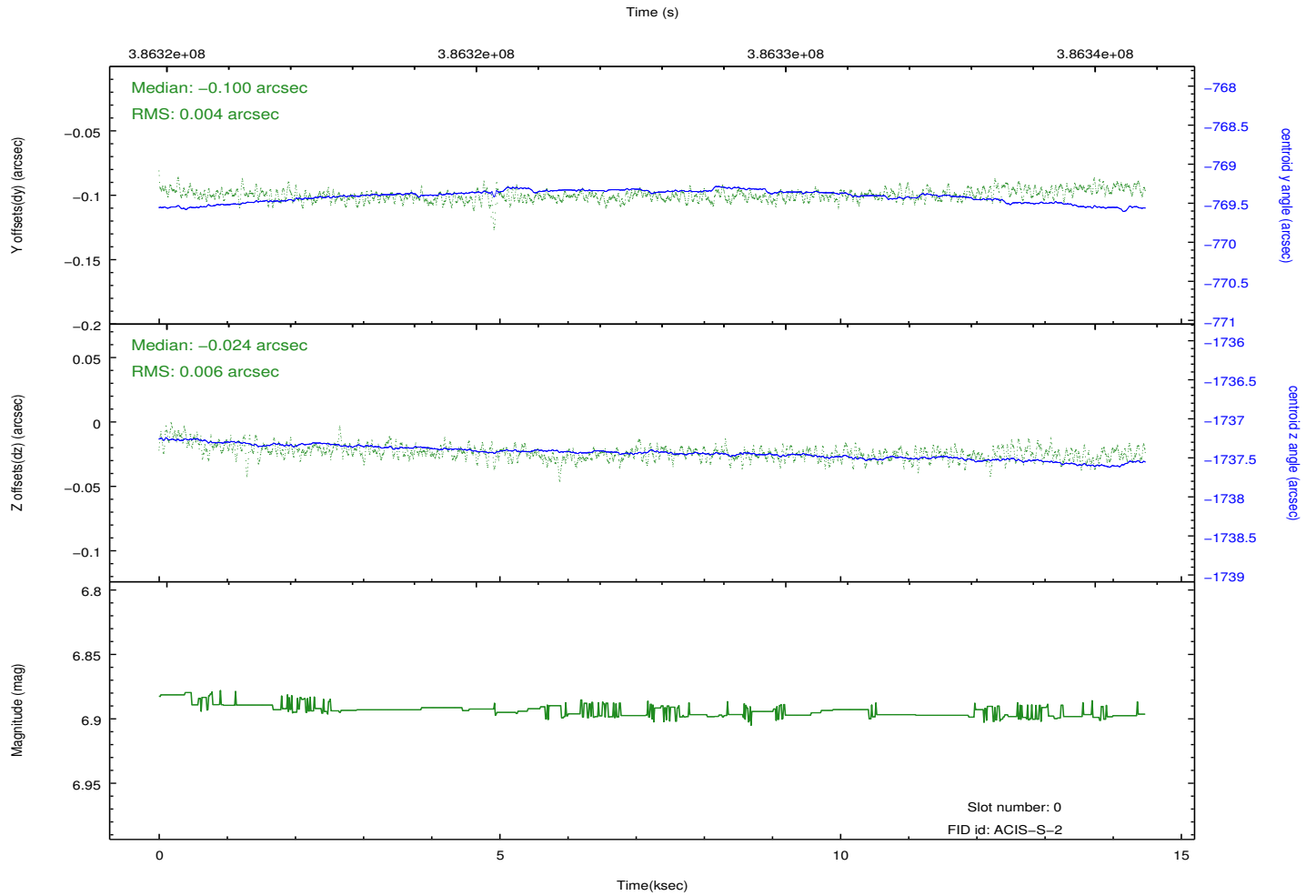
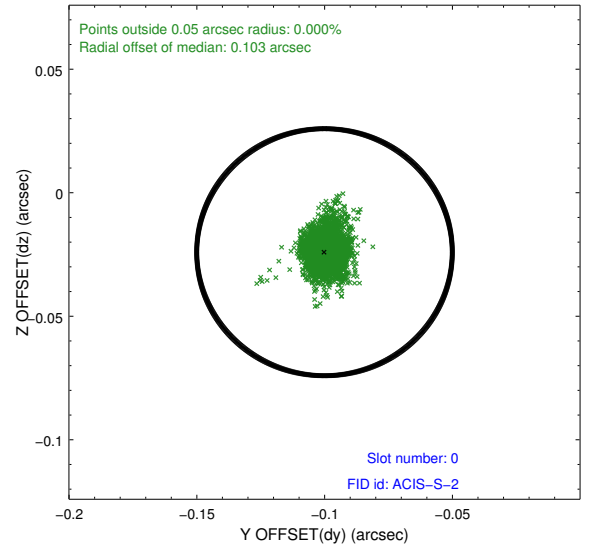
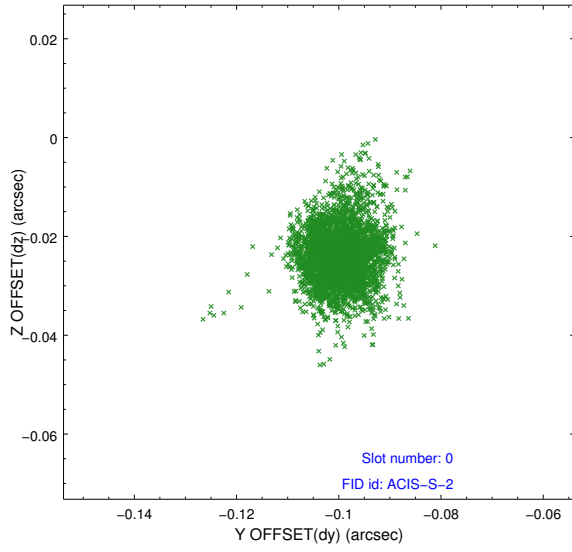


Time (s)

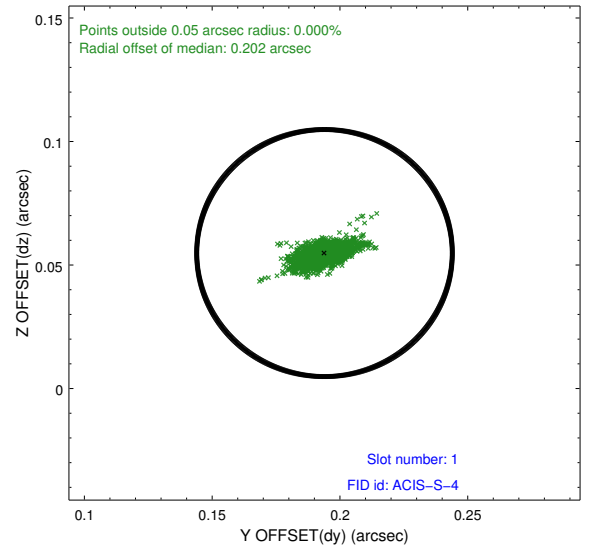
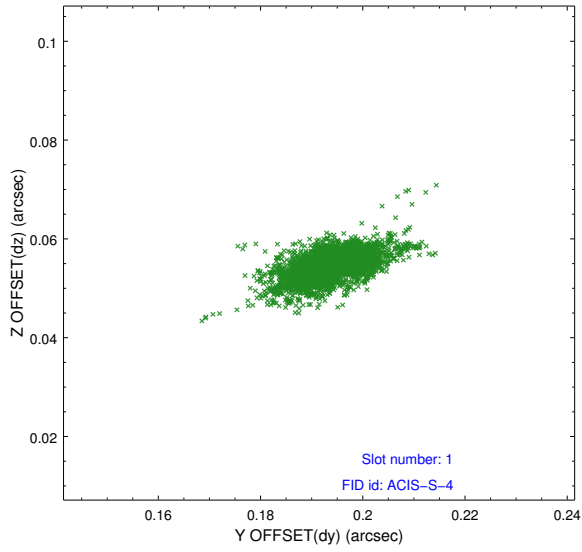


2.5 FID Slots

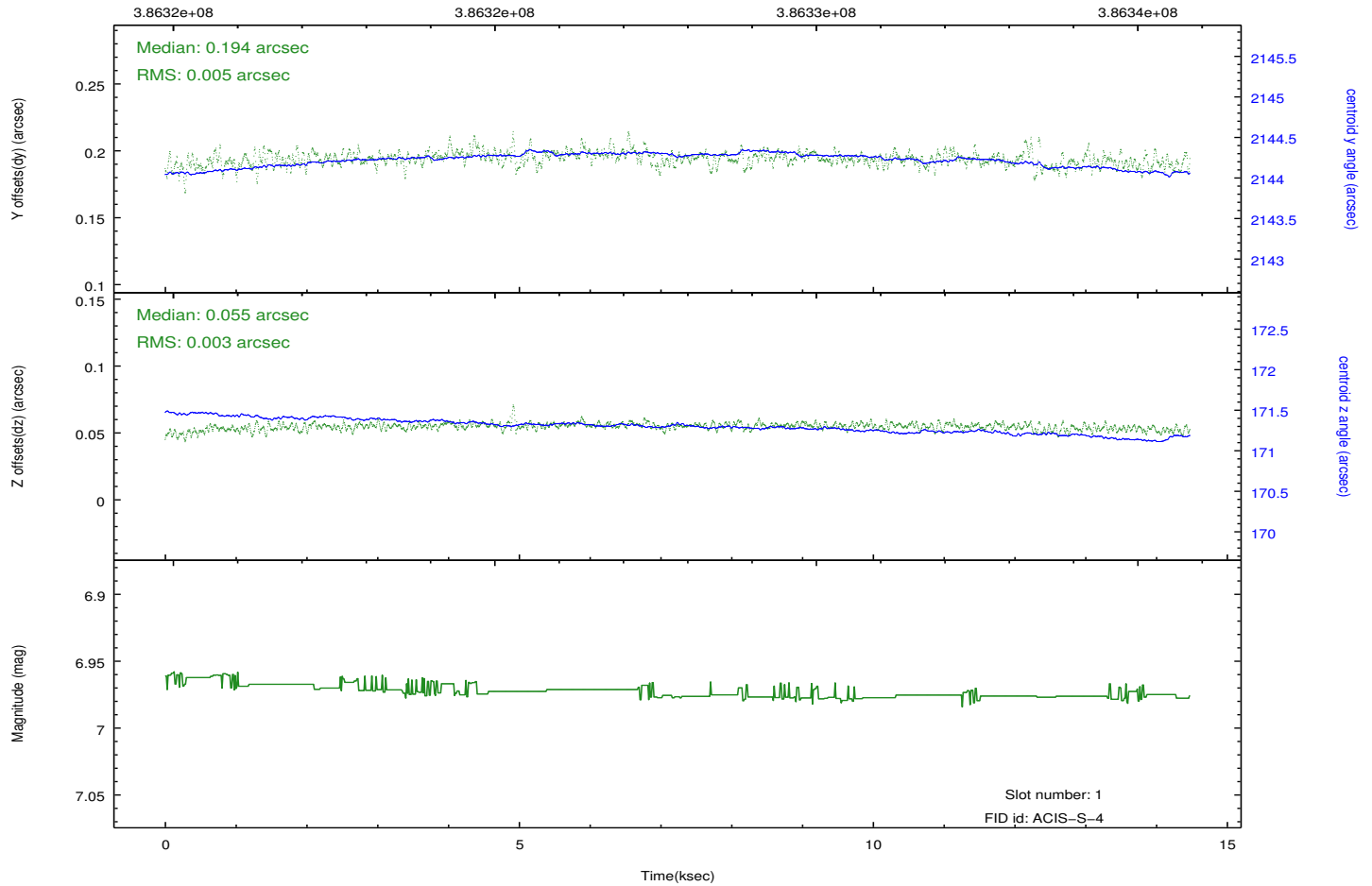
2.5.1 Slot 0



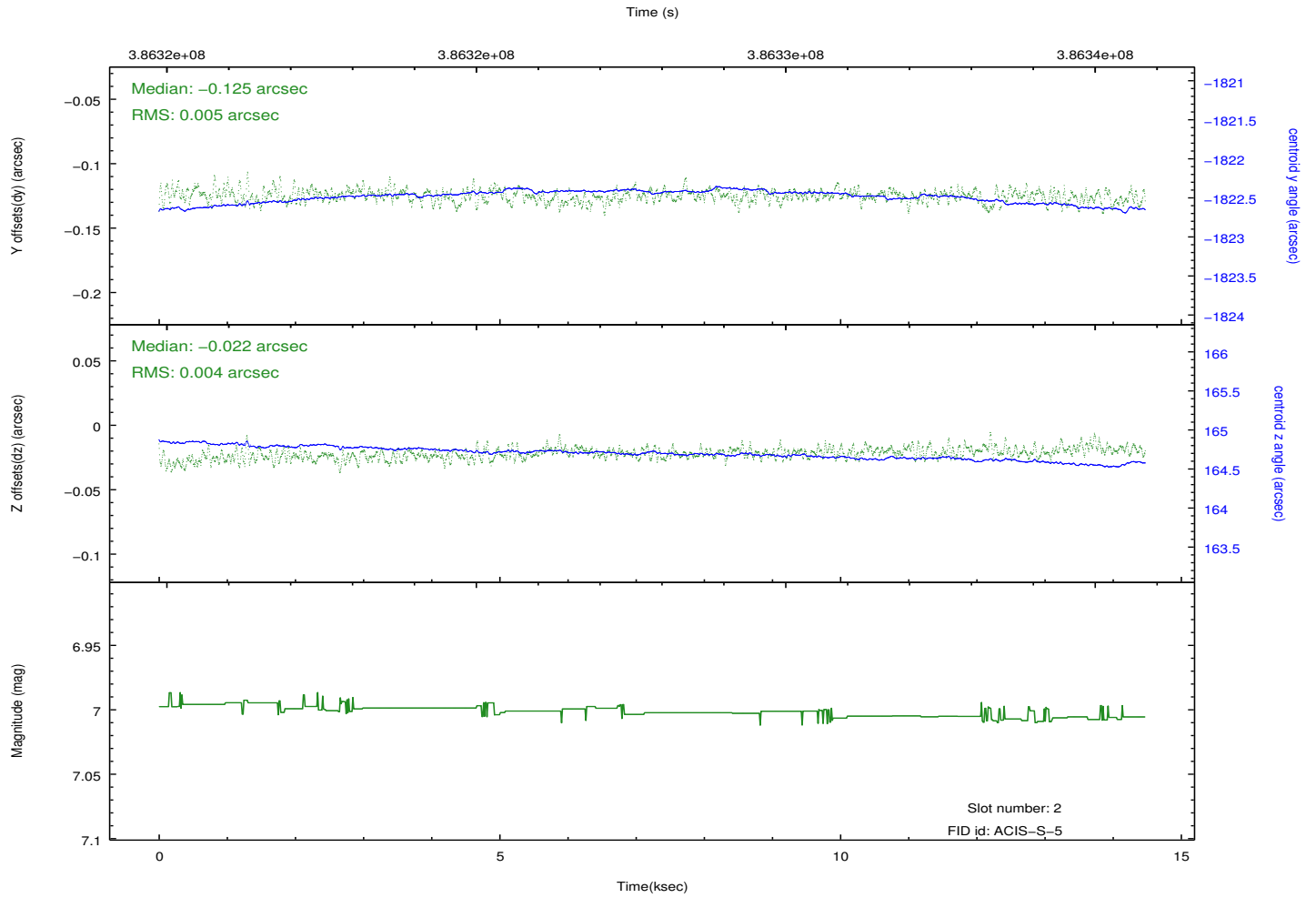
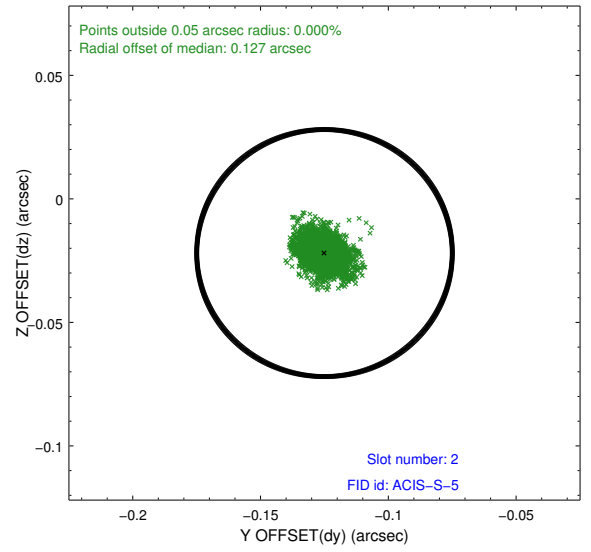
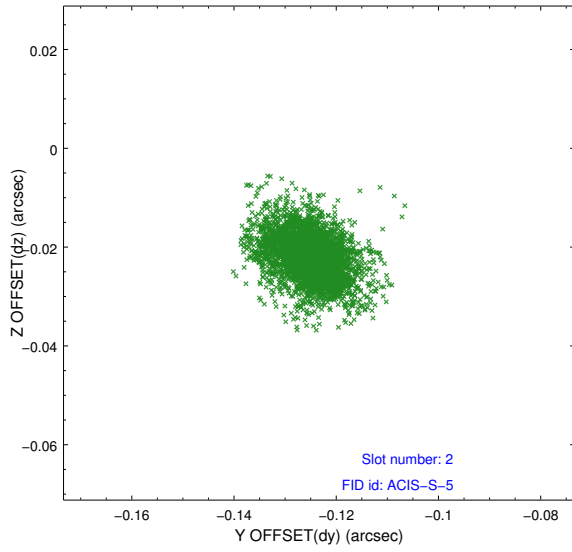
2.5.2 Slot 1



Time (s)



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.06.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	14.147199947357

A.2 Comments