

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 12684 - L2 Version 2
Chandra X-Ray Center

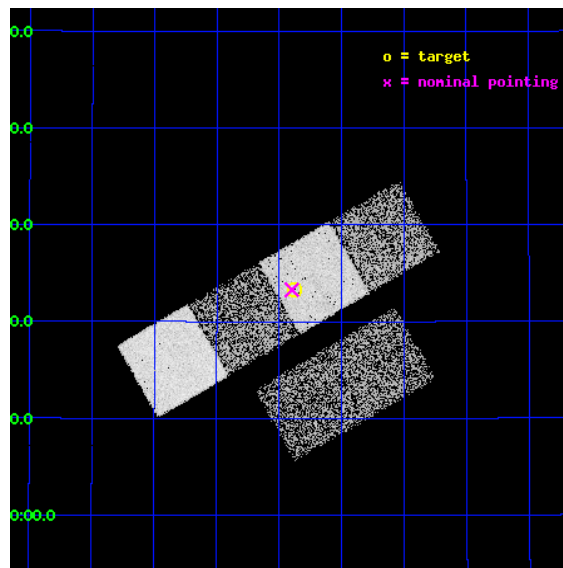
L2 Processing Date : Jul 8 2012

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1 Front

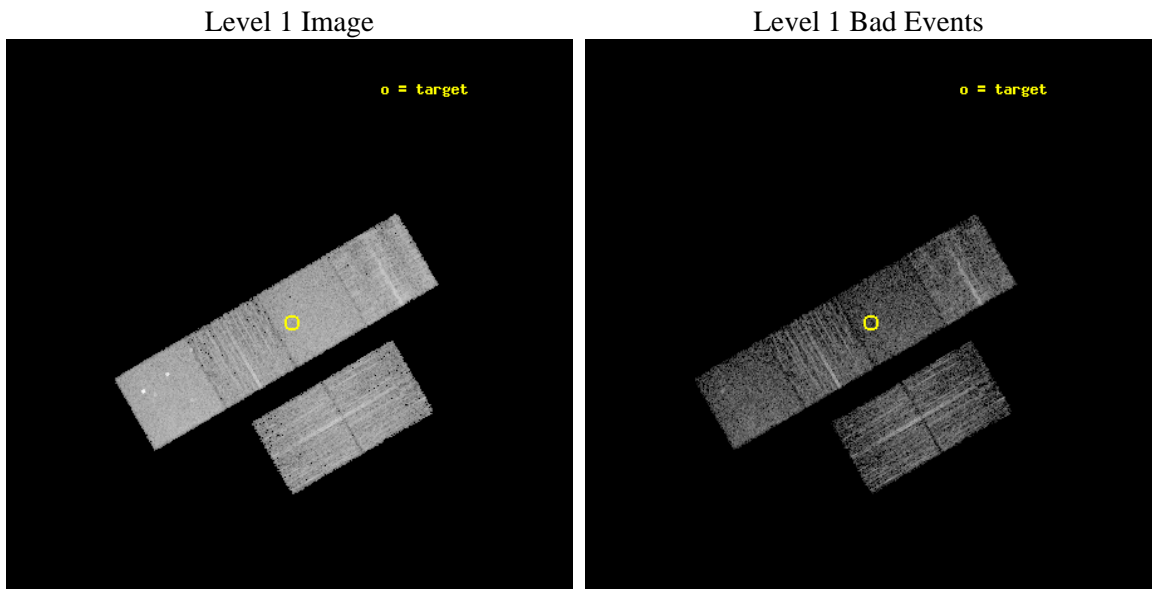
seq_num	501517	Sequence number
obs_id	12684	Observation id
title	Hunting for Anti-magnetars with Chandra	Proposal title
observer	Dr Chi-Yung Ng	Principal investigator
object	PSR B1952+29	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	298.594167	Observer's specified target RA [deg]
dec_targ	29.388139	Observer's specified target Dec [deg]
ra_nom	298.59970198588	Nominal RA [deg]
dec_nom	29.388203999633	Nominal Dec [deg]
roll_nom	329.87480448789	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5051.6193137169	Sum of GTIs [s]
livetime	4987.6526682466	Livetime [s]
ontime2	5051.6603537202	Sum of GTIs [s]
ontime3	5048.2552033663	Sum of GTIs [s]
ontime5	5051.5782737136	Sum of GTIs [s]
ontime6	5051.5372337103	Sum of GTIs [s]
ontime7	5051.6193137169	Sum of GTIs [s]
ontime8	5051.4551537037	Sum of GTIs [s]
l2events	57925	Number of level 2 events



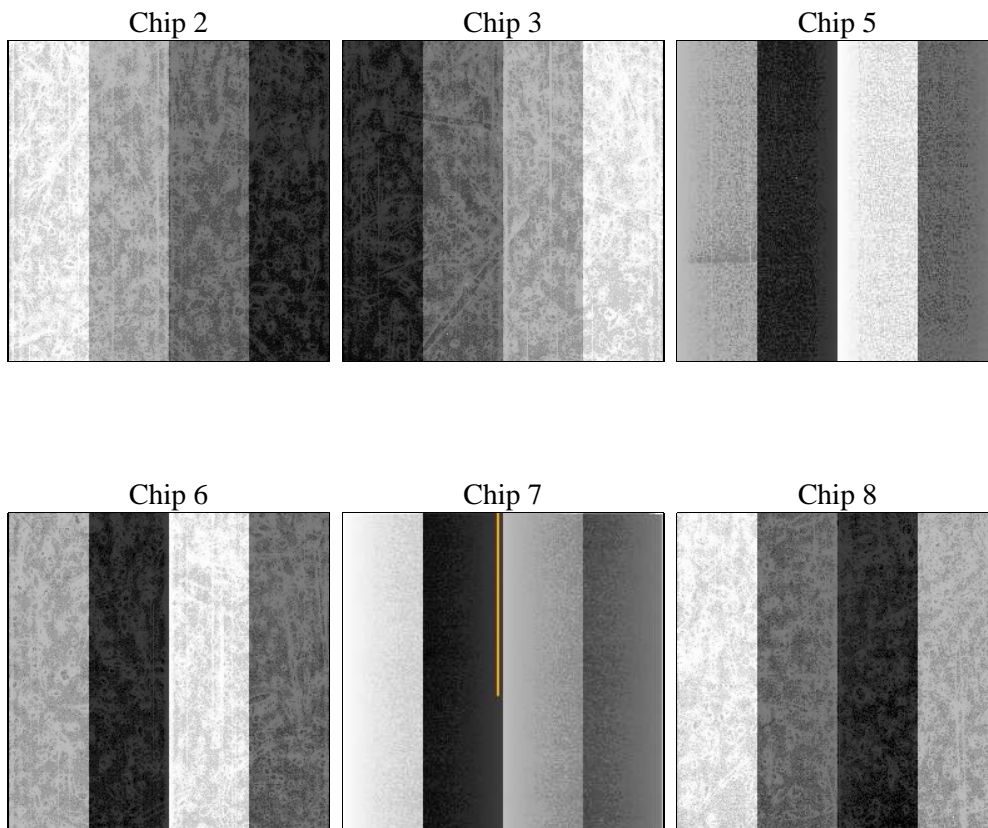
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5051.6193137169	Sum of GTIs [s]
caldbver	4.5.0	 	ontime2	5051.6603537202	Sum of GTIs [s]
date	2012-07-08T19:20:55	Date and time of file creation	ontime3	5048.2552033663	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	5051.5782737136	Sum of GTIs [s]
			ontime6	5051.5372337103	Sum of GTIs [s]
			ontime7	5051.6193137169	Sum of GTIs [s]
			ontime8	5051.4551537037	Sum of GTIs [s]
			l1events	249511	Number of level 1 events

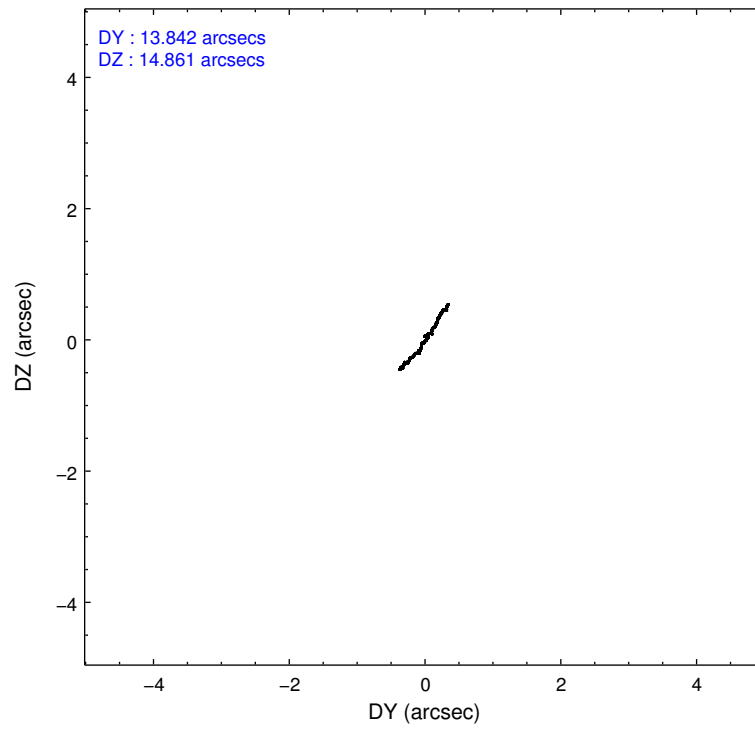
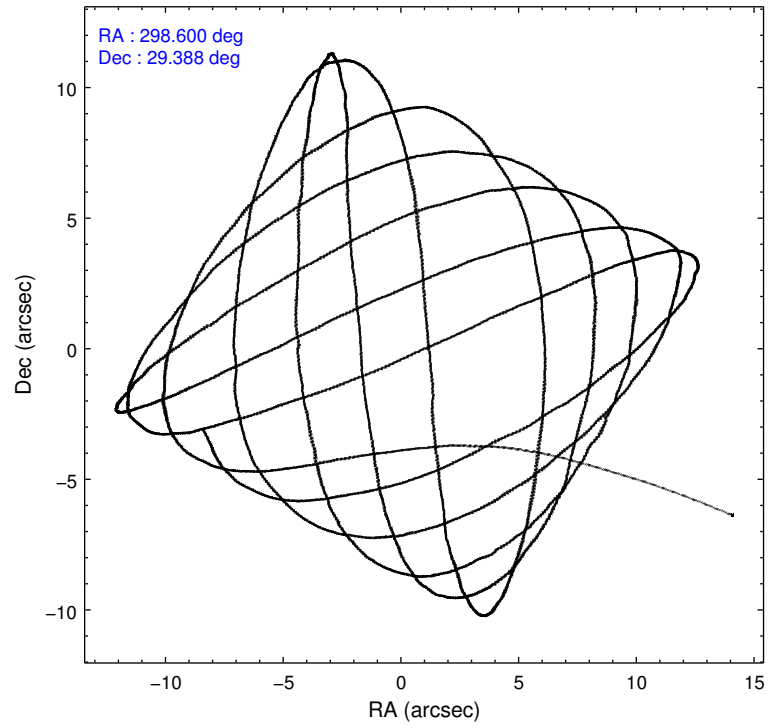
2.1.4 Events

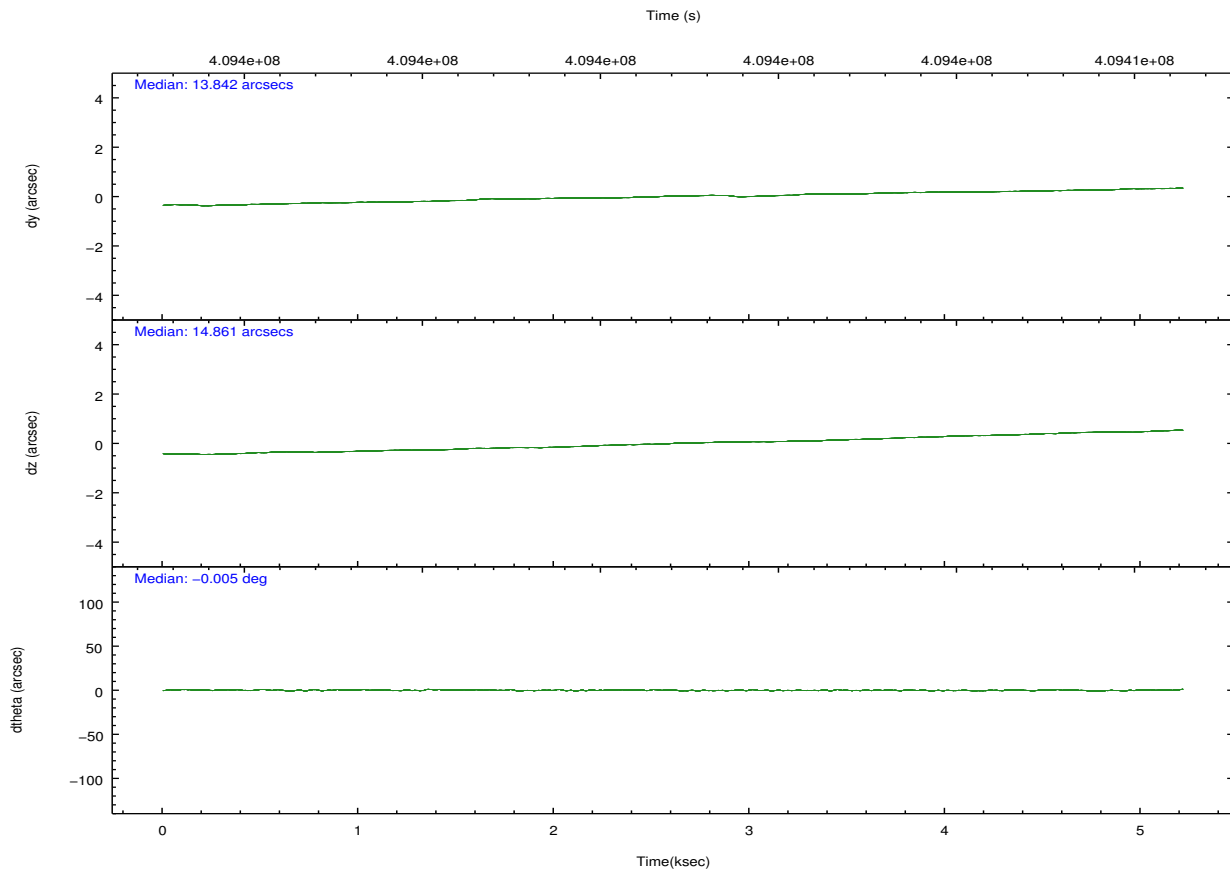
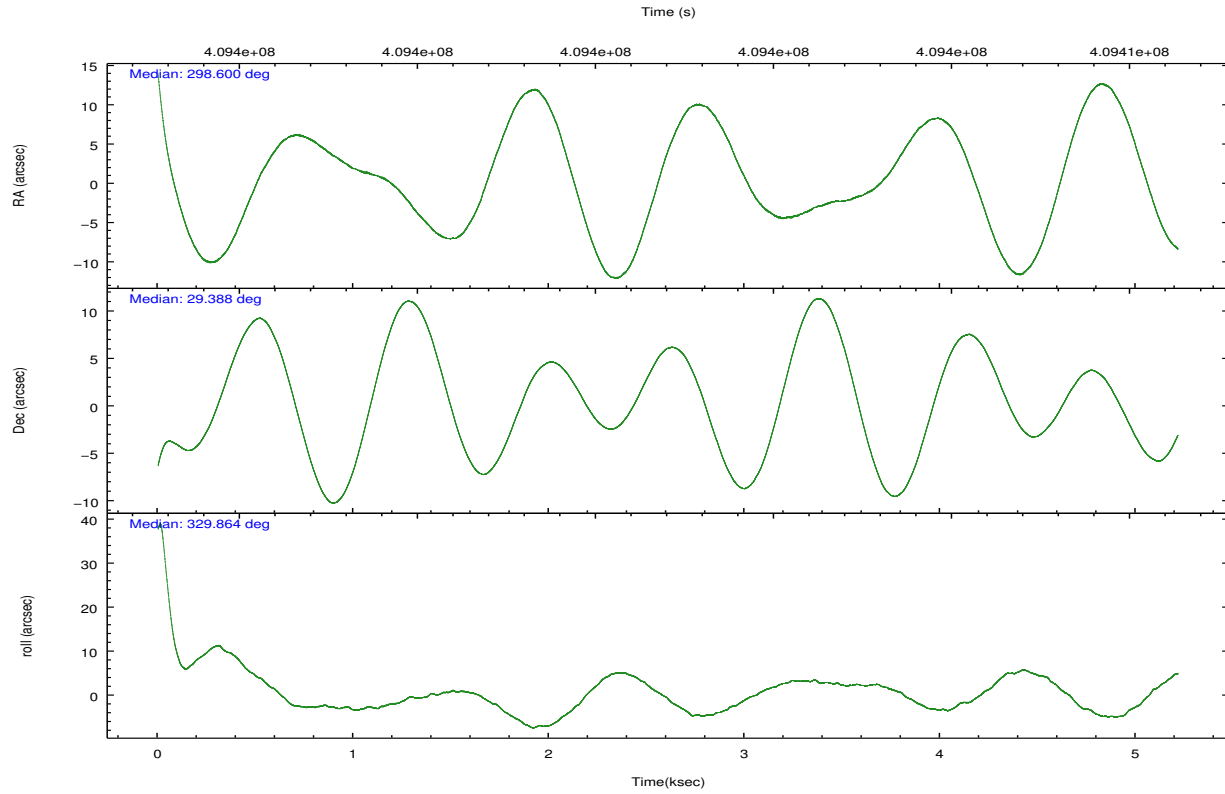
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	35523	33207	55329	36354	43196	45902	grade 0 events	1427	1267	3629	1531	1791	3476
rejected events	31626	29588	27490	32181	23714	34037		4%	3%	6%	4%	4%	7%
rejected %	89%	89%	49%	88%	54%	74%	grade 1 events	18	21	237	24	57	39
								0%	0%	0%	0%	0%	0%
							grade 2 events	940	791	8368	881	3988	2943
								2%	2%	15%	2%	9%	6%
							grade 3 events	361	384	1069	416	1753	1192
								1%	1%	1%	1%	4%	2%
							grade 4 events	364	416	916	439	1679	1035
								1%	1%	1%	1%	3%	2%
							grade 5 events	1456	1642	4058	1525	4501	2362
								4%	4%	7%	4%	10%	5%
							grade 6 events	808	764	13874	906	10281	3224
								2%	2%	25%	2%	23%	7%
							grade 7 events	30149	27922	23178	30632	19146	31631
								84%	84%	41%	84%	44%	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	298.568351	298.5997019858832	CCD I2 on	Y	Y
[deg] Pointing Dec	29.387949	29.38820399963274	CCD I3 on	Y	Y
[deg] Pointing Roll	329.733470	329.8748044878856	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O2	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	O1	Y
[s] Observation start time (MET)	409401020.184000	409399982.44237	CCD S5 on	N	N
Observation start date	2010-12-22T10:29:14	2010-12-22T10:13:02	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	409406020.184000	409407401.39276	On-chip summing requested	N	N
Observation end date	2010-12-22T11:52:34	2010-12-22T12:16:41	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



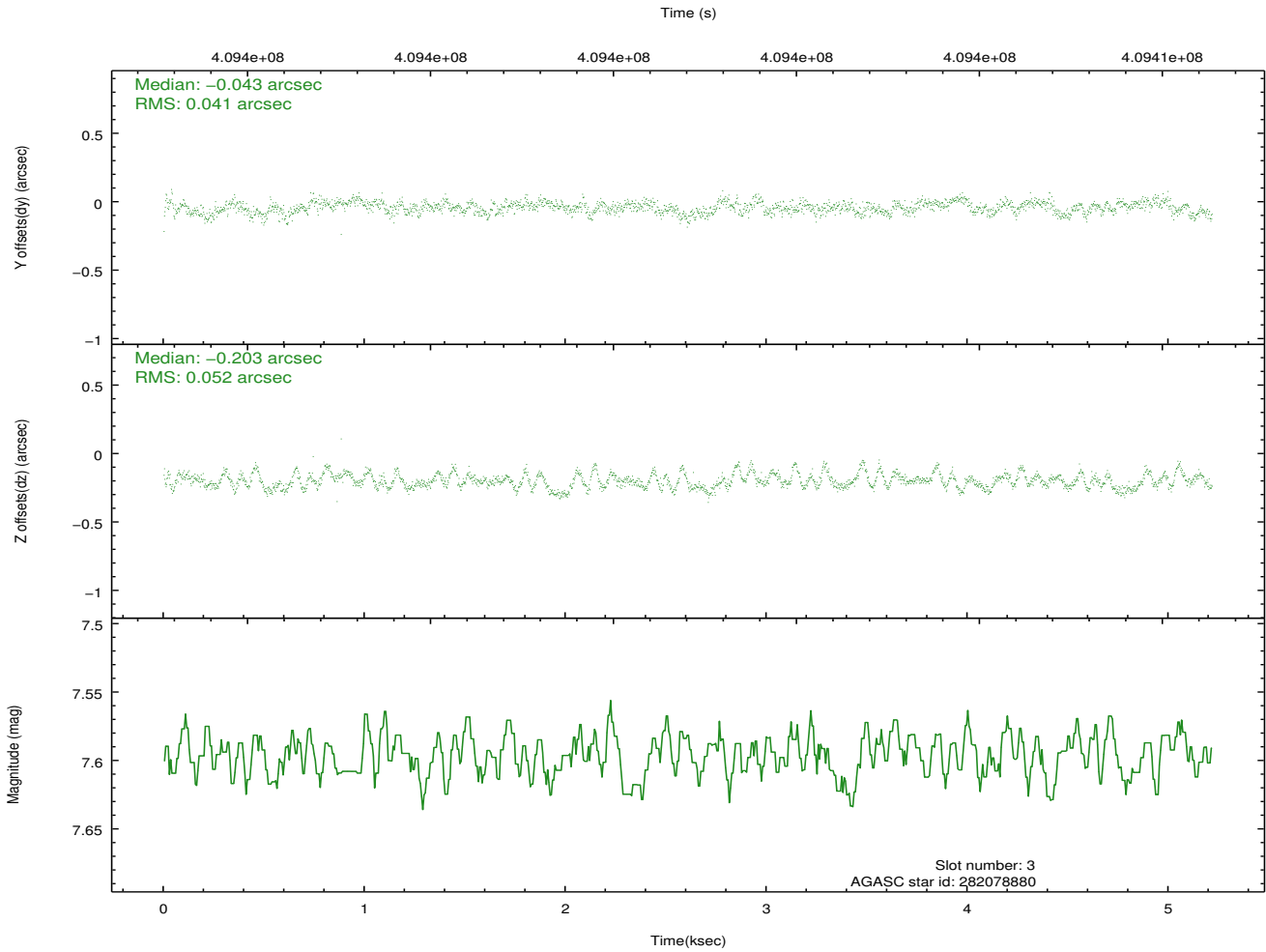
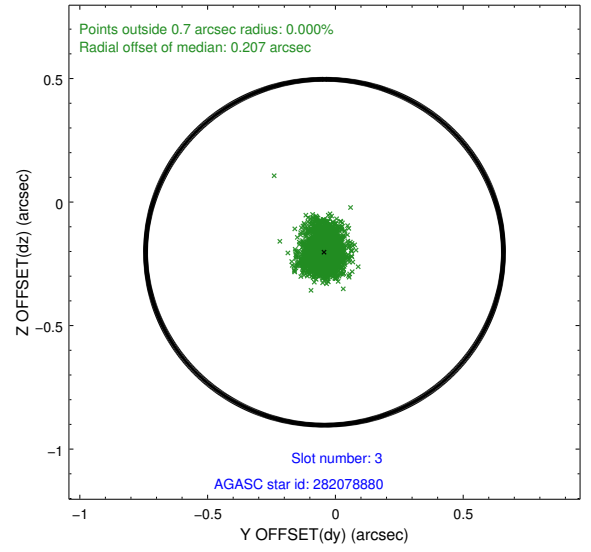
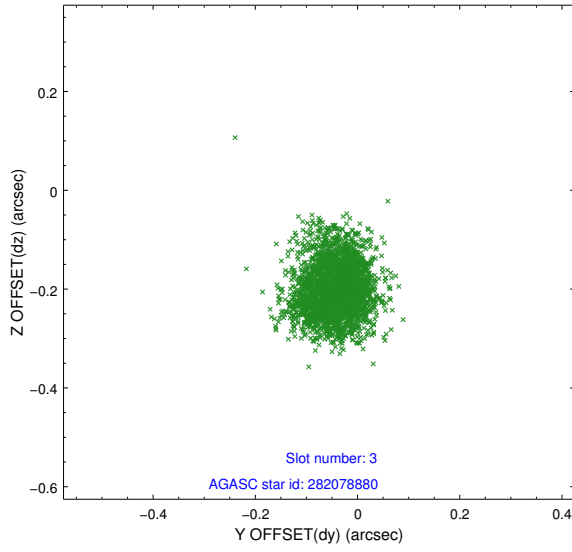


Slot Statistics

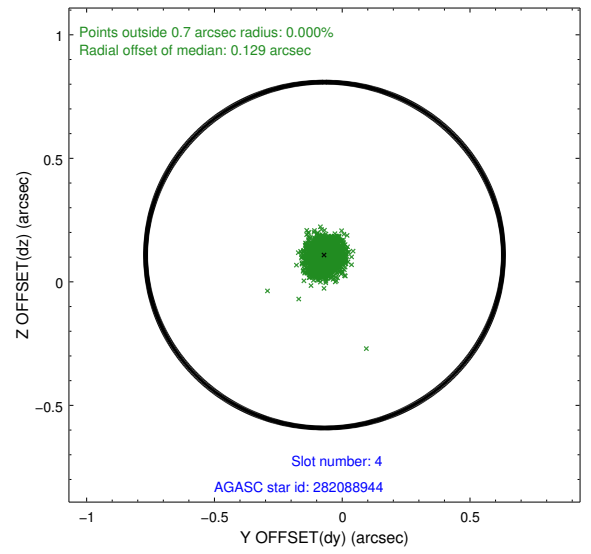
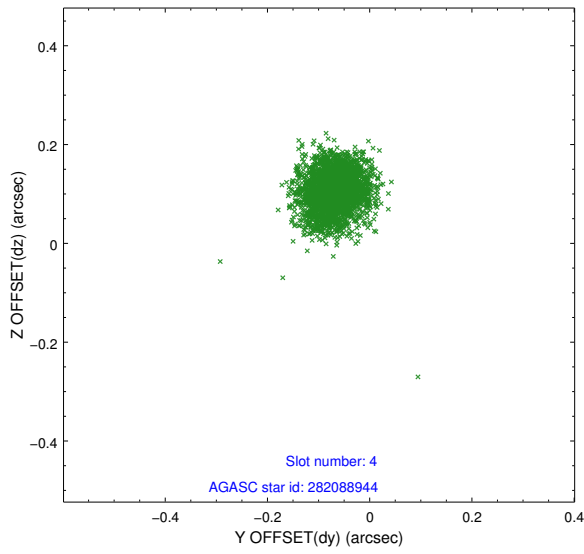
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.97	1272	-0.072	-0.046	0.013	0.018	0.000000	0.000000	-766.81	-1736.29
1	FID	ACIS-S-4	7.06	1272	0.216	0.047	0.011	0.021	0.000000	0.000000	2146.19	171.12
2	FID	ACIS-S-5	7.09	1272	-0.174	0.007	0.011	0.015	0.000000	0.000000	-1818.30	166.02
3	GUIDE	282078880	7.60	2545	-0.043	-0.203	0.070	0.115	298.833442	29.989080	-377.52	2286.71
4	GUIDE	282088944	7.70	2544	-0.069	0.108	0.055	0.088	298.042016	29.235810	-1153.61	-1301.96
5	GUIDE	282098376	8.88	2543	0.083	0.062	0.084	0.140	298.689485	28.612889	1737.24	-2216.50
6	GUIDE	282112592	9.18	2543	0.035	-0.069	0.093	0.153	298.532167	28.798411	972.46	-1890.90
7	GUIDE	349846368	8.55	2544	-0.003	0.108	0.069	0.110	298.163240	30.044345	-2282.16	1405.97

2.4 Star Slots

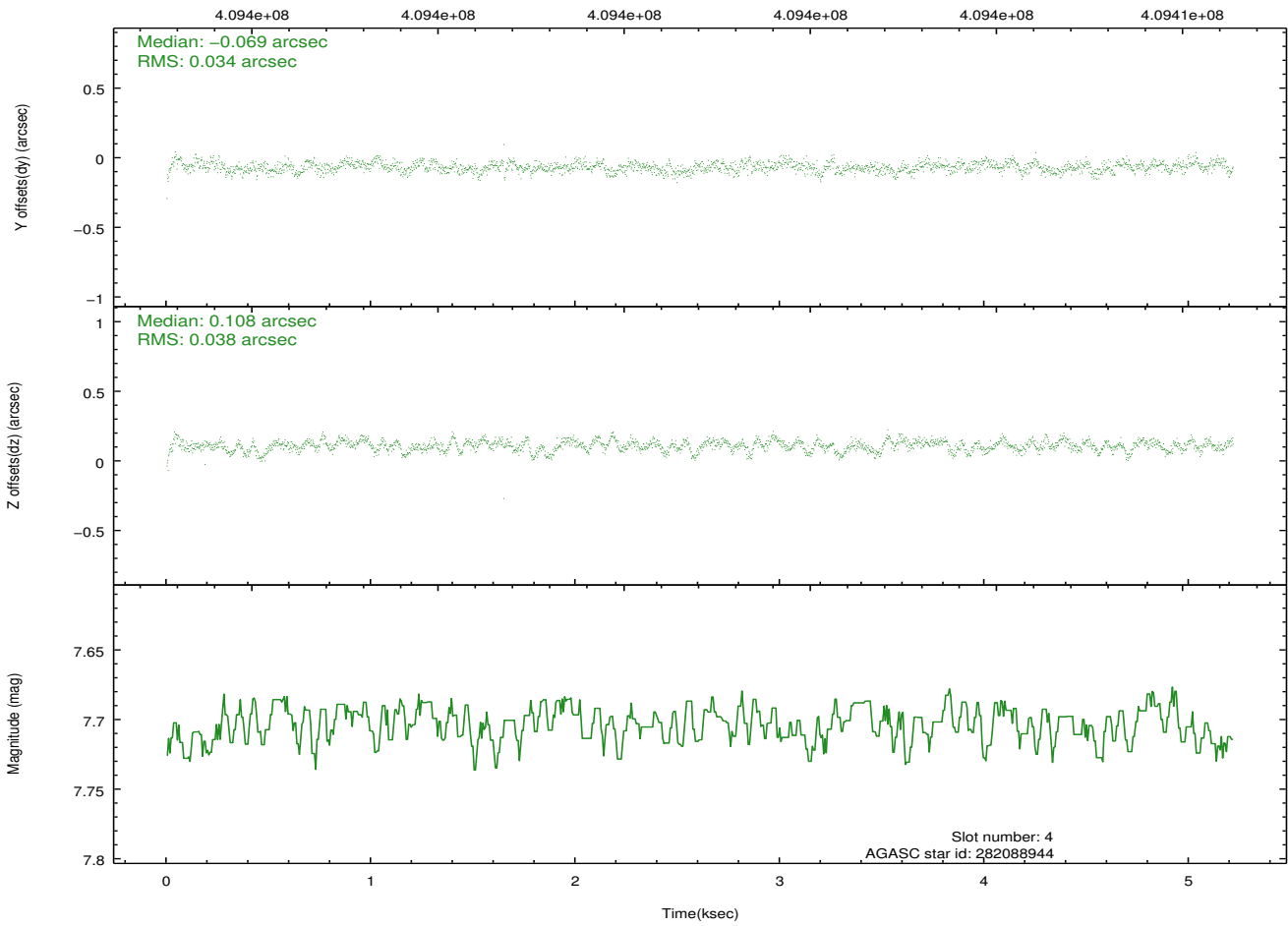
2.4.1 Slot 3



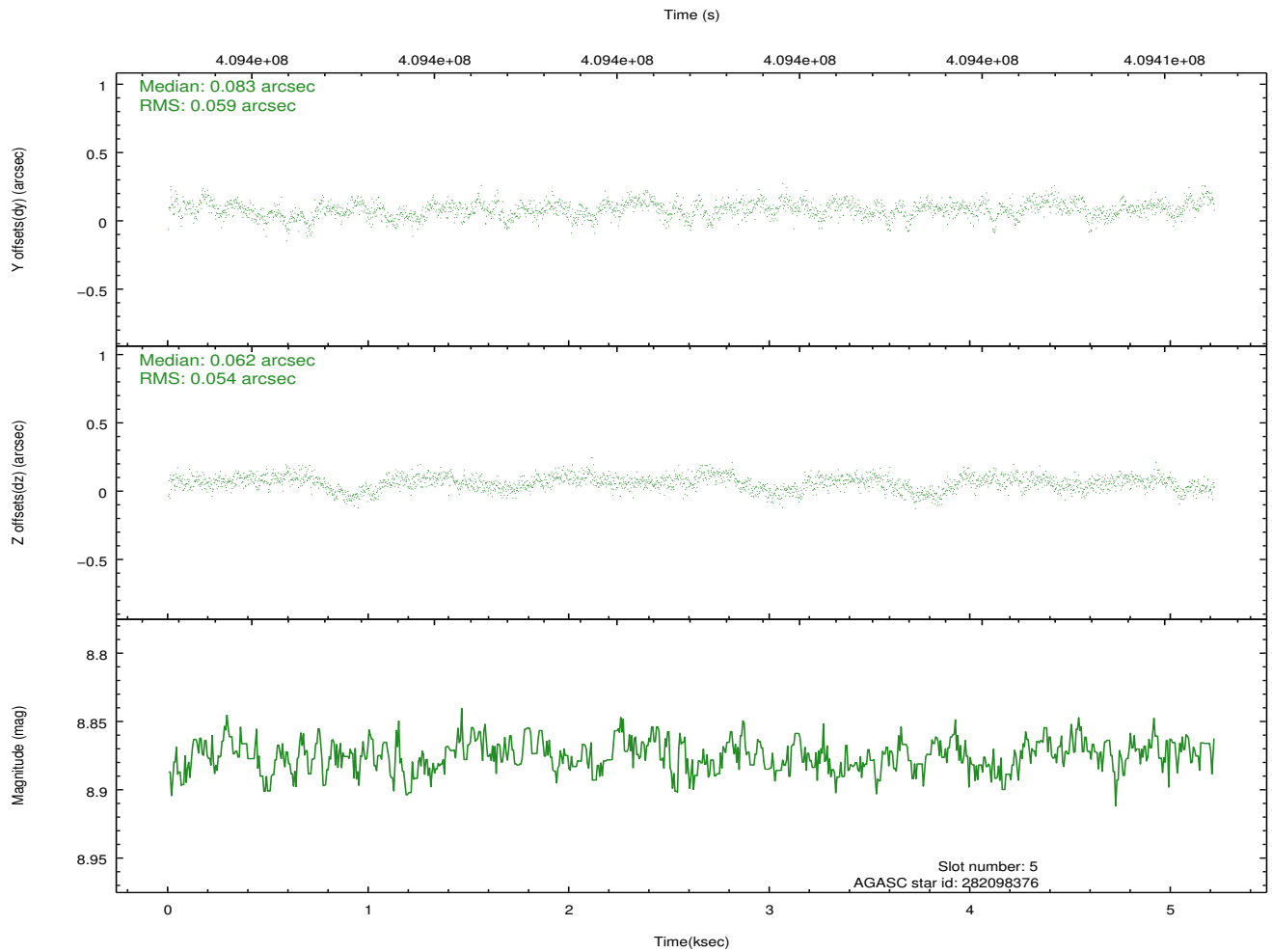
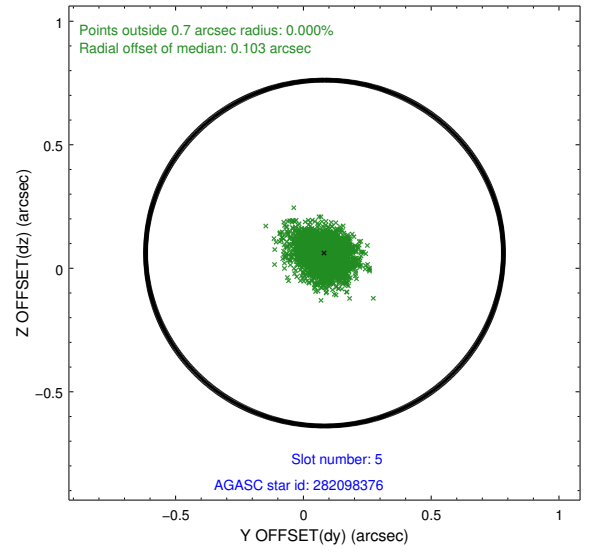
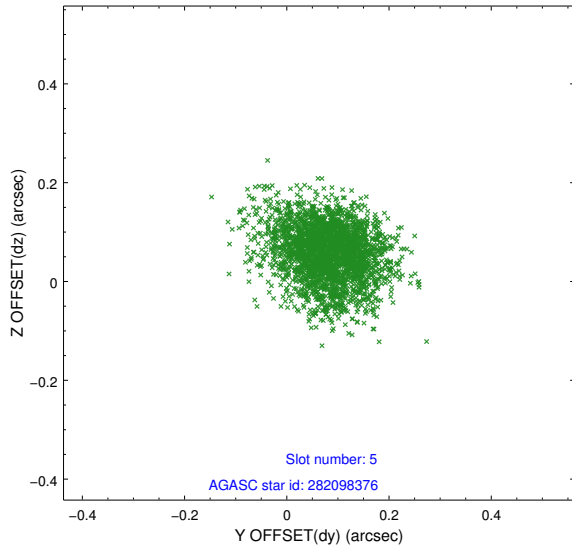
2.4.2 Slot 4



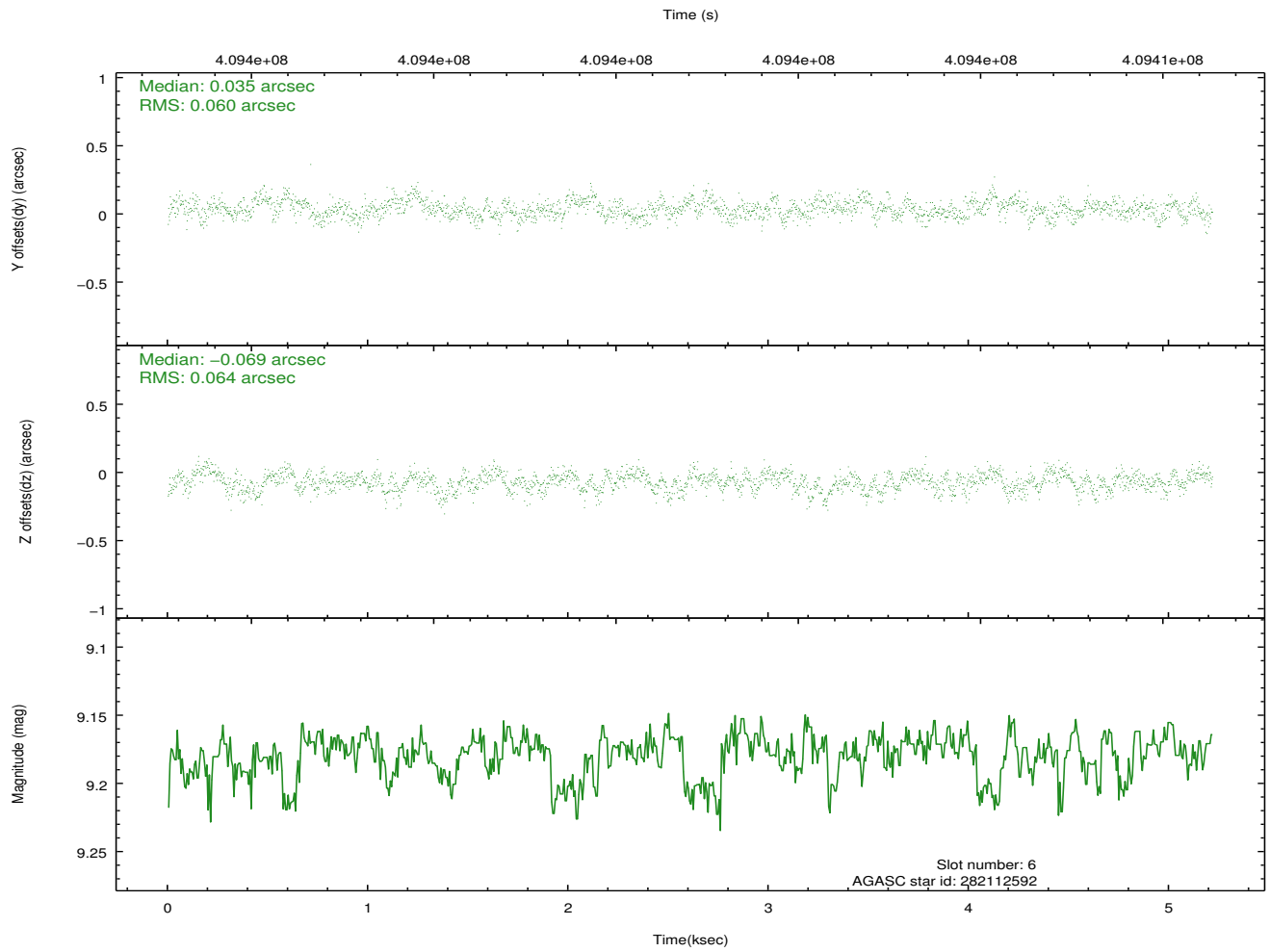
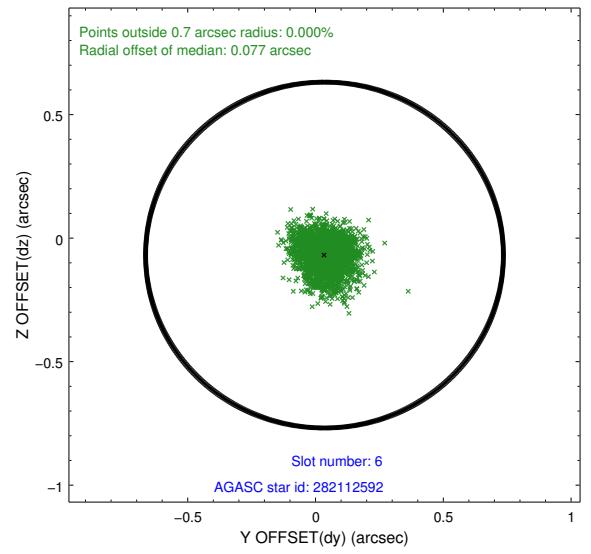
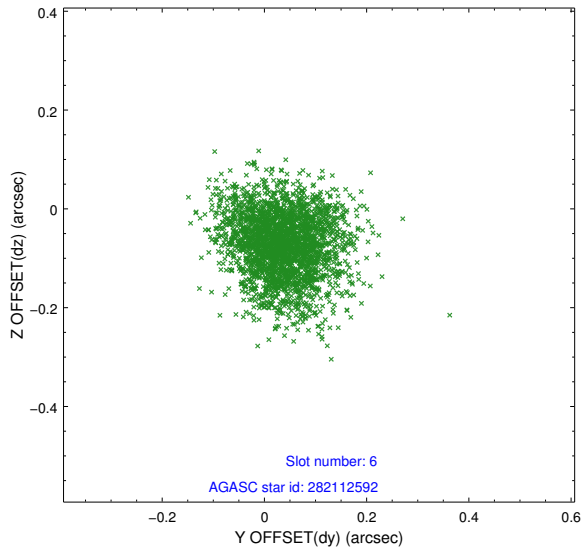
Time (s)



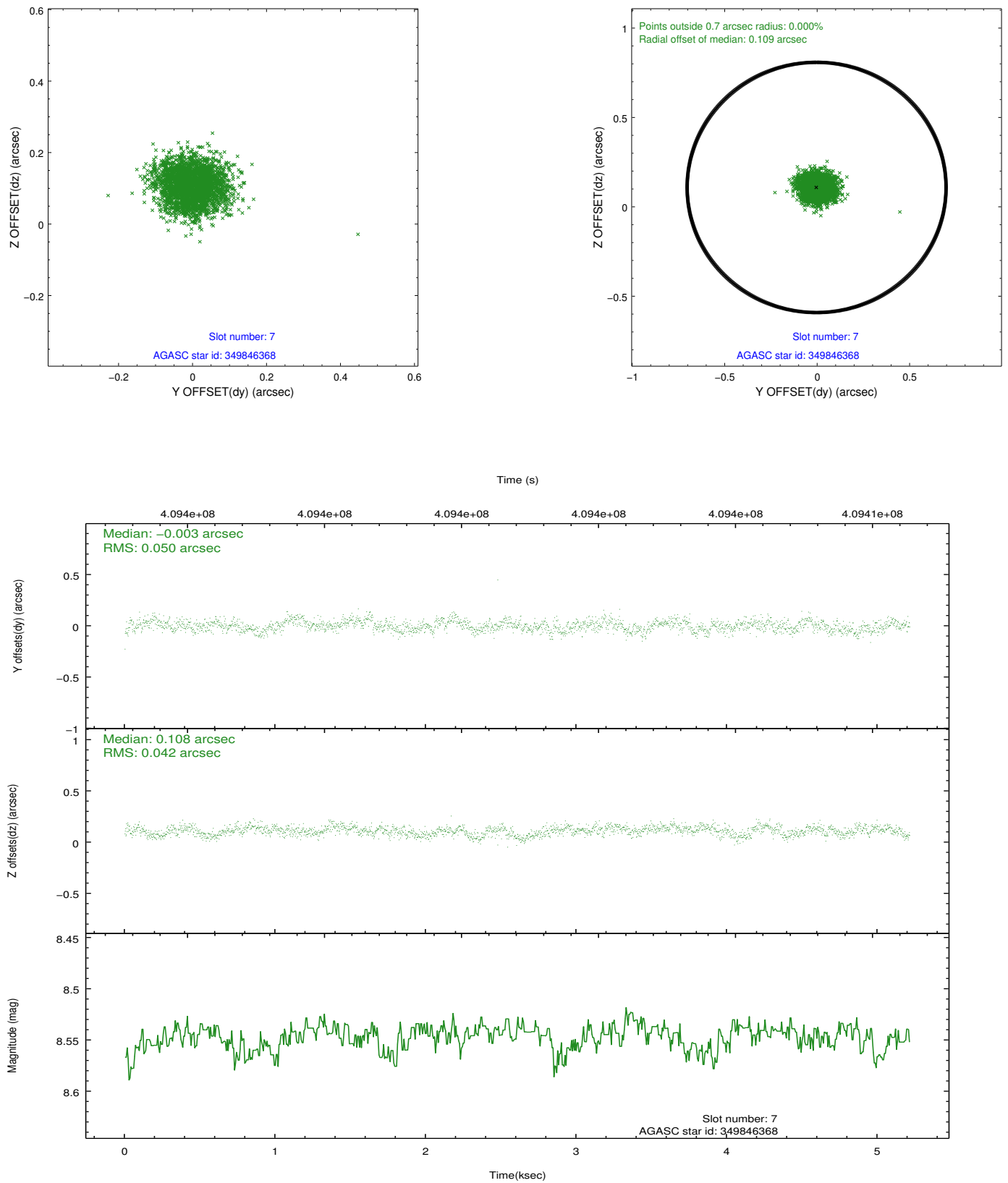
2.4.3 Slot 5



2.4.4 Slot 6

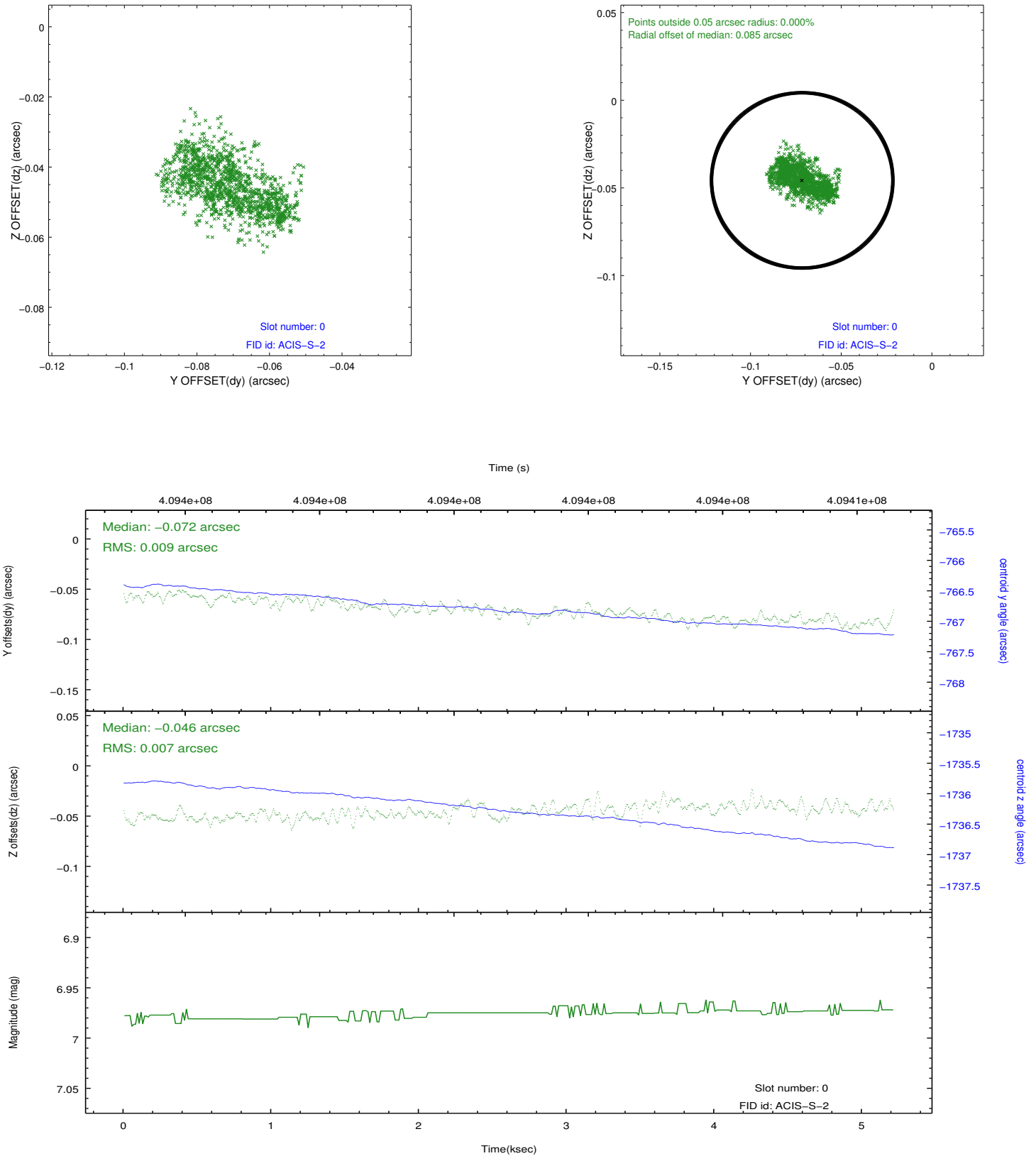


2.4.5 Slot 7

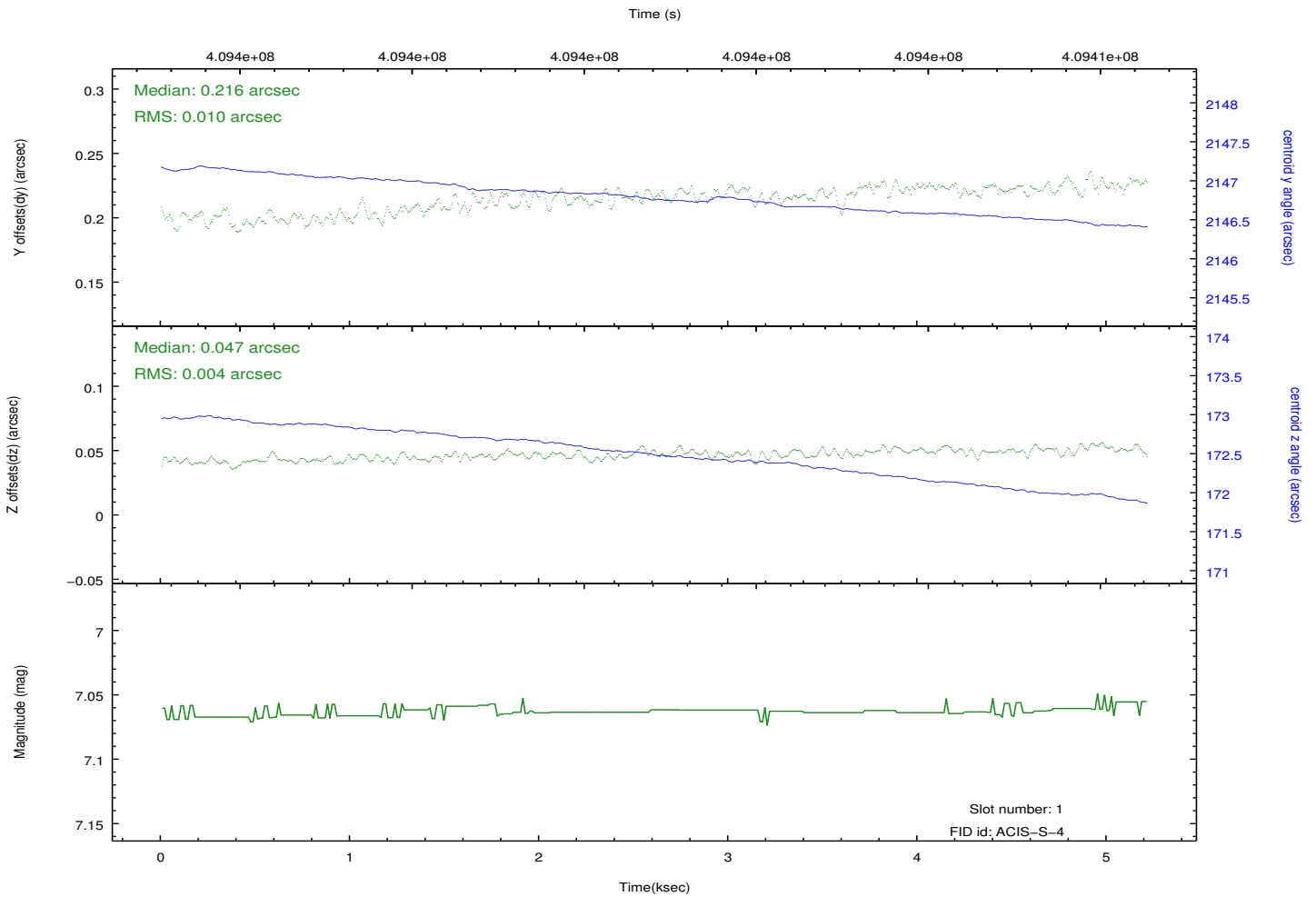
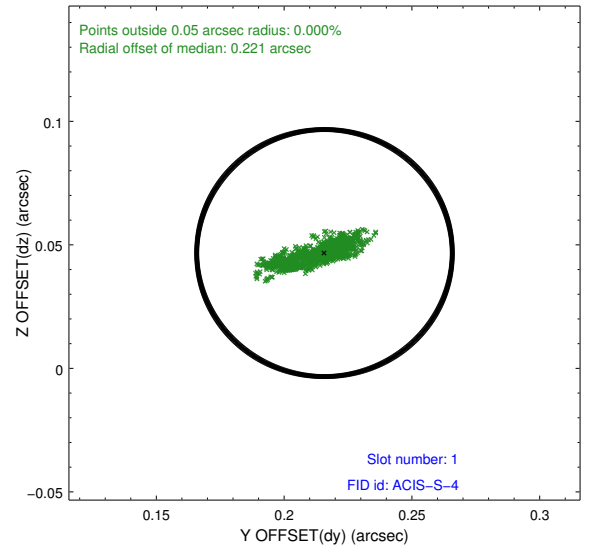
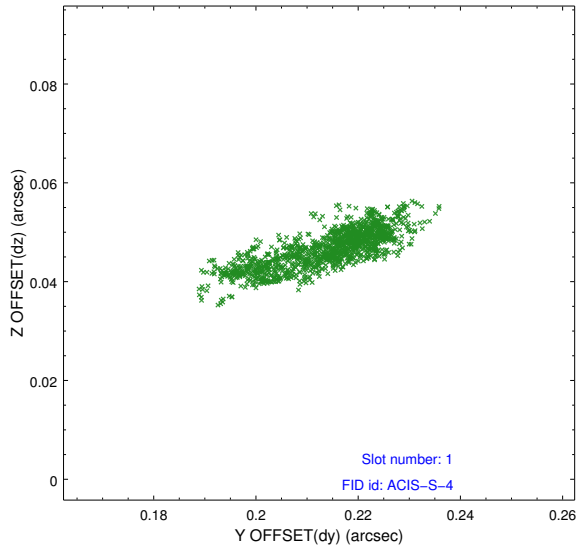


2.5 FID Slots

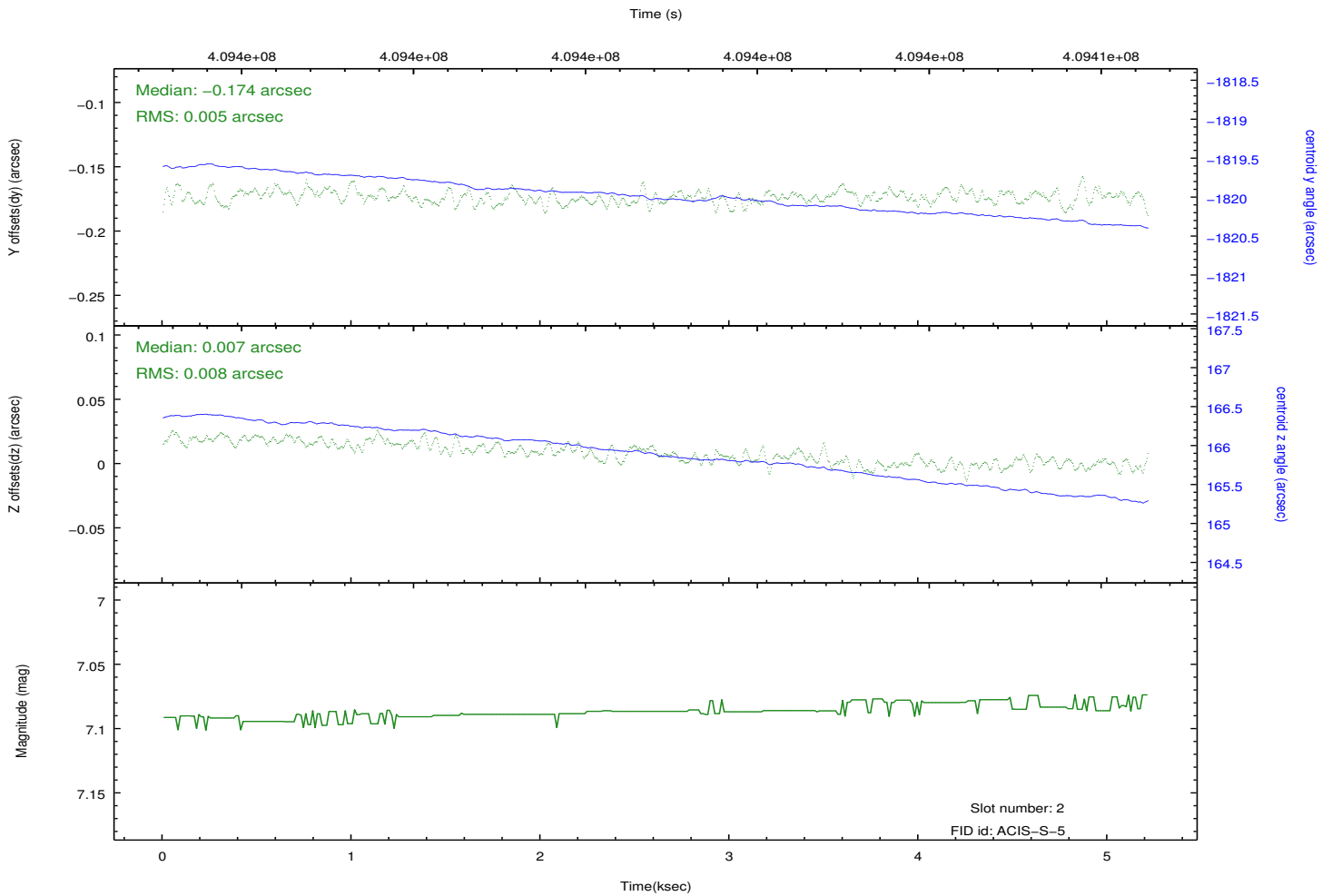
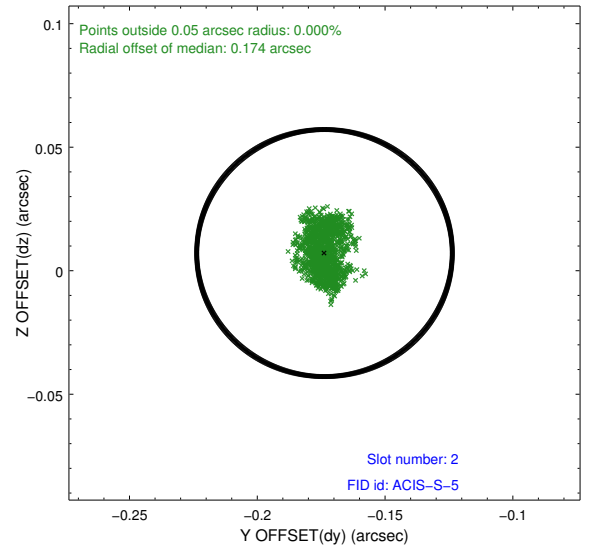
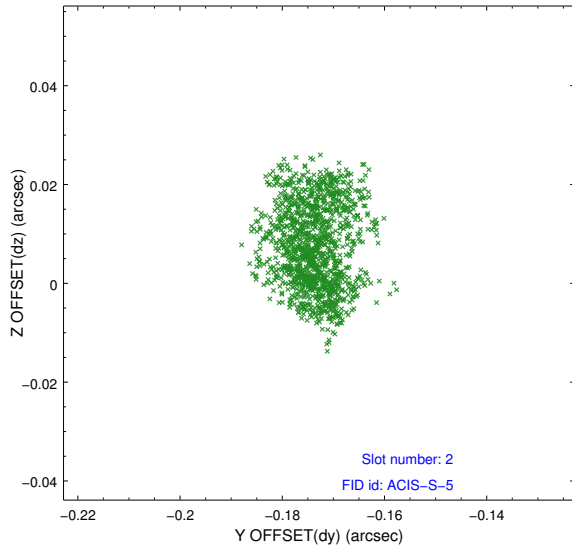
2.5.1 Slot 0



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)	2012.07.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0516193217039

A.2 Comments