

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 12543 - L2 Version 2
Chandra X-Ray Center

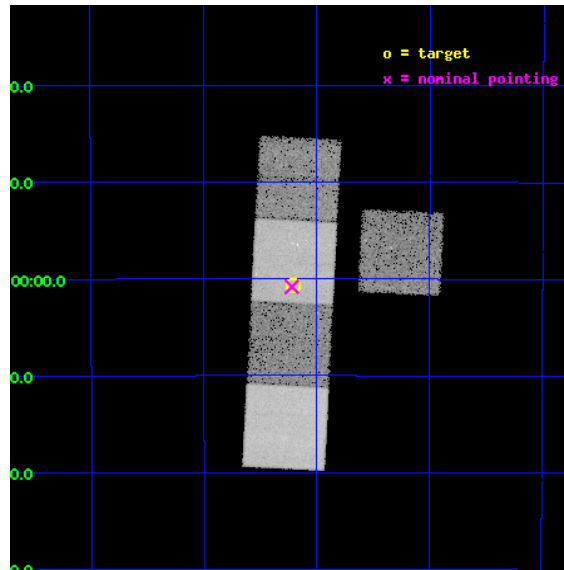
L2 Processing Date : Mar 2 2012

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1 Front

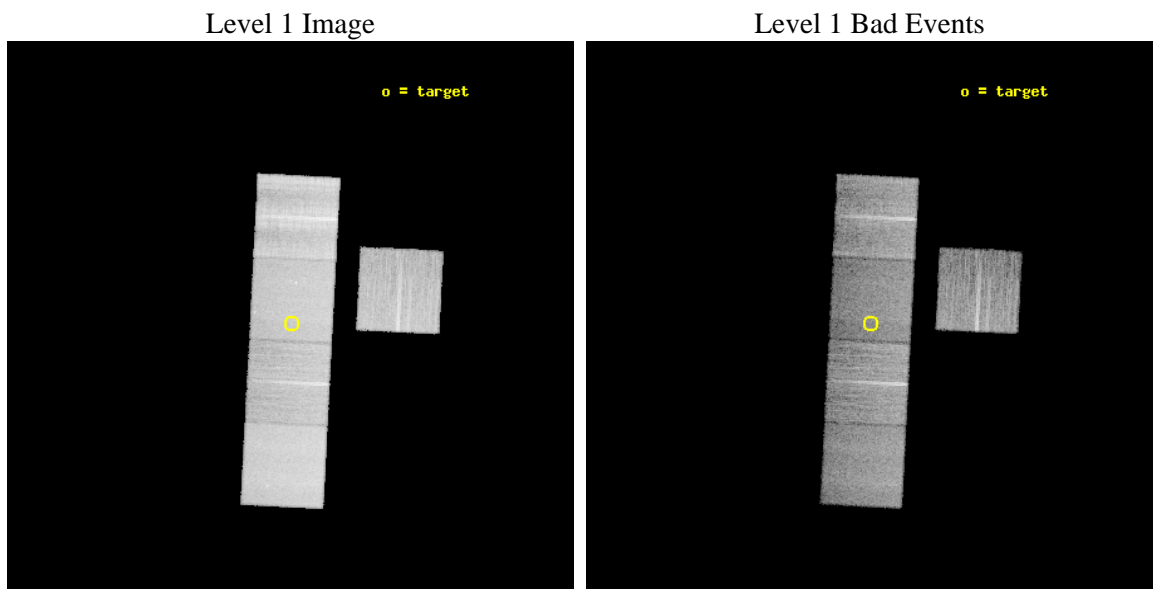
seq_num	501376	Sequence number
obs_id	12543	Observation id
title	Rapid Observations of Short Gamma-Ray Bursts: Accurate Positions Hold the Key to the Progenitor Population	Proposal title
observer	Prof. Edo Berger	Principal investigator
object	GRB111020A	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	287.051708	Observer's specified target RA [deg]
dec_targ	-38.012361	Observer's specified target Dec [deg]
ra_nom	287.05503625074	Nominal RA [deg]
dec_nom	-38.013868813444	Nominal Dec [deg]
roll_nom	272.95816805865	Nominal Roll [deg]
revision	2	Processing version of data
ontime	20041.500154138	Sum of GTIs [s]
livetime	19779.643200286	Livetime [s]
ontime3	20035.218173683	Sum of GTIs [s]
ontime5	20041.500154138	Sum of GTIs [s]
ontime6	20038.359153807	Sum of GTIs [s]
ontime7	20041.500154138	Sum of GTIs [s]
ontime8	20041.500154138	Sum of GTIs [s]
l2events	201684	Number of level 2 events



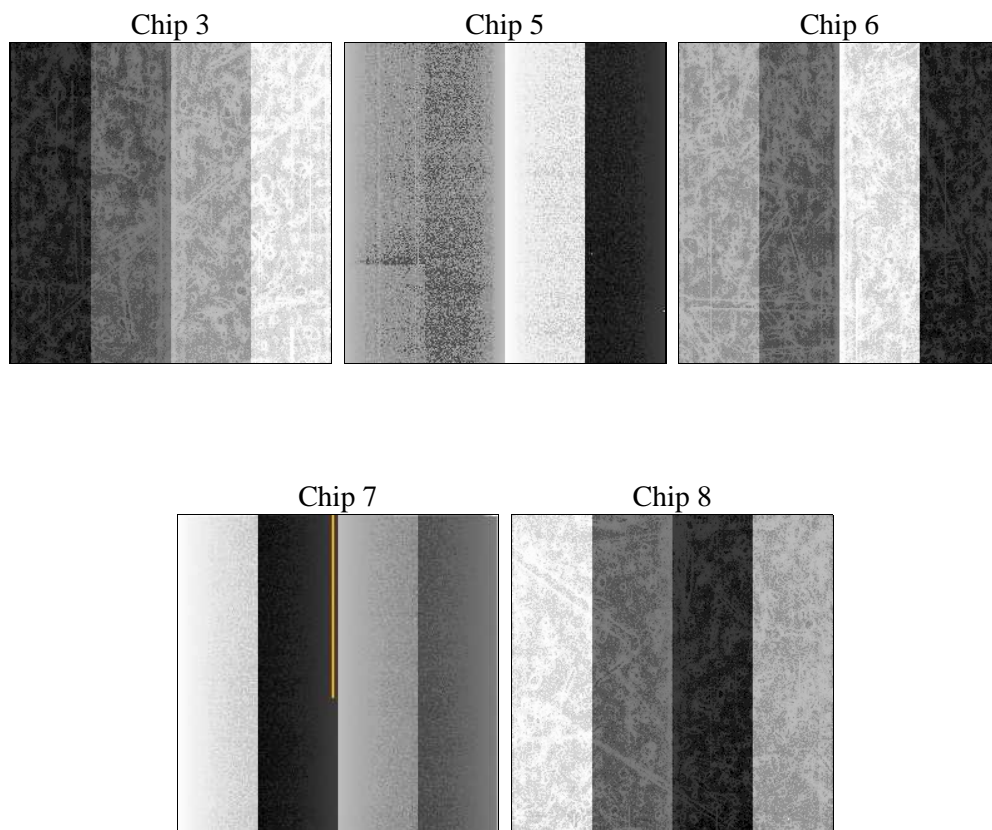
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	20041.500154138	Sum of GTIs [s]
caldsver	4.4.8	 	ontime3	20035.218173683	Sum of GTIs [s]
date	2012-03-02T13:11:07	Date and time of file creation	ontime5	20041.500154138	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	20038.359153807	Sum of GTIs [s]
			ontime7	20041.500154138	Sum of GTIs [s]
			ontime8	20041.500154138	Sum of GTIs [s]
			l1events	808503	Number of level 1 events

2.1.4 Events

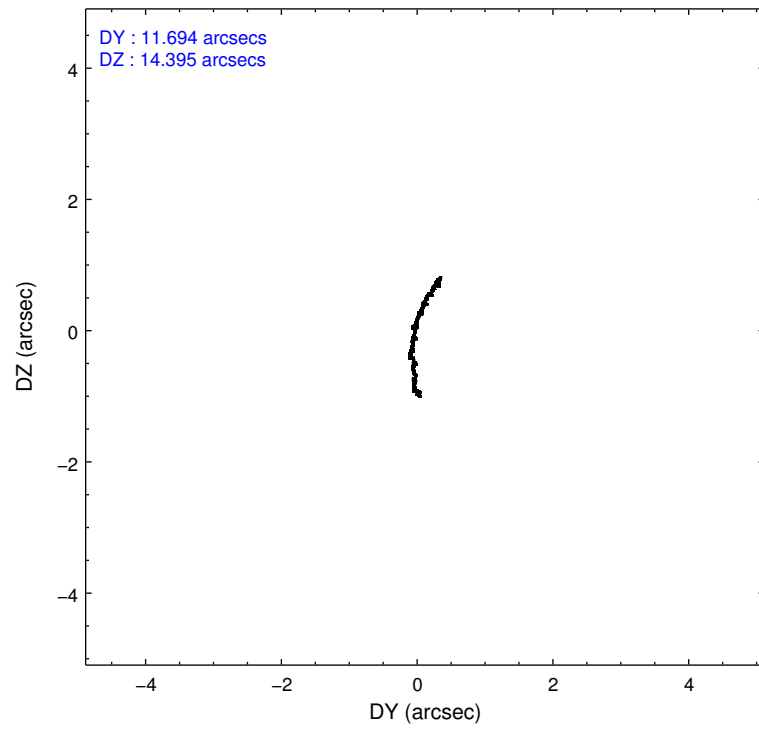
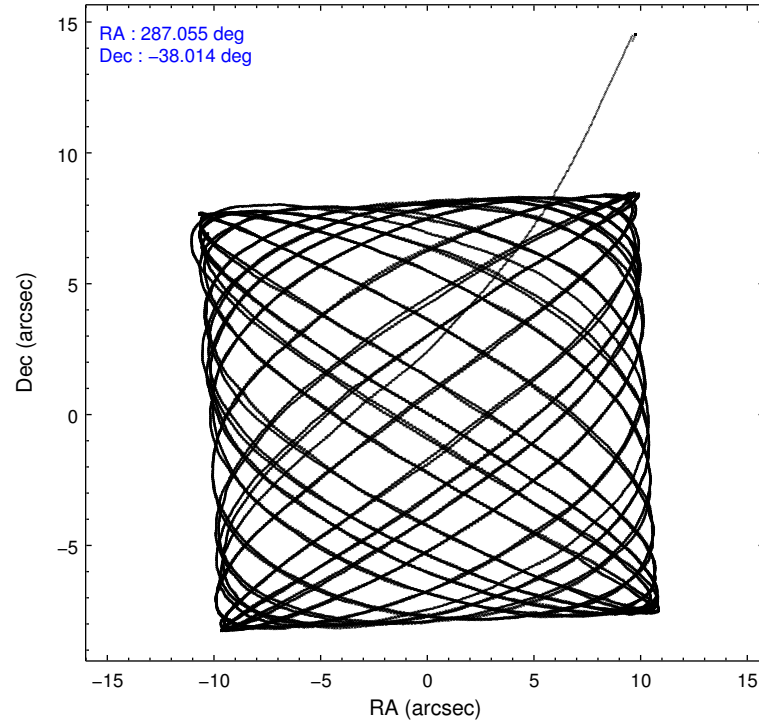
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	125577	194449	133701	160310	194466
rejected events	112267	101402	118091	88373	125933
rejected %	89%	52%	88%	55%	64%

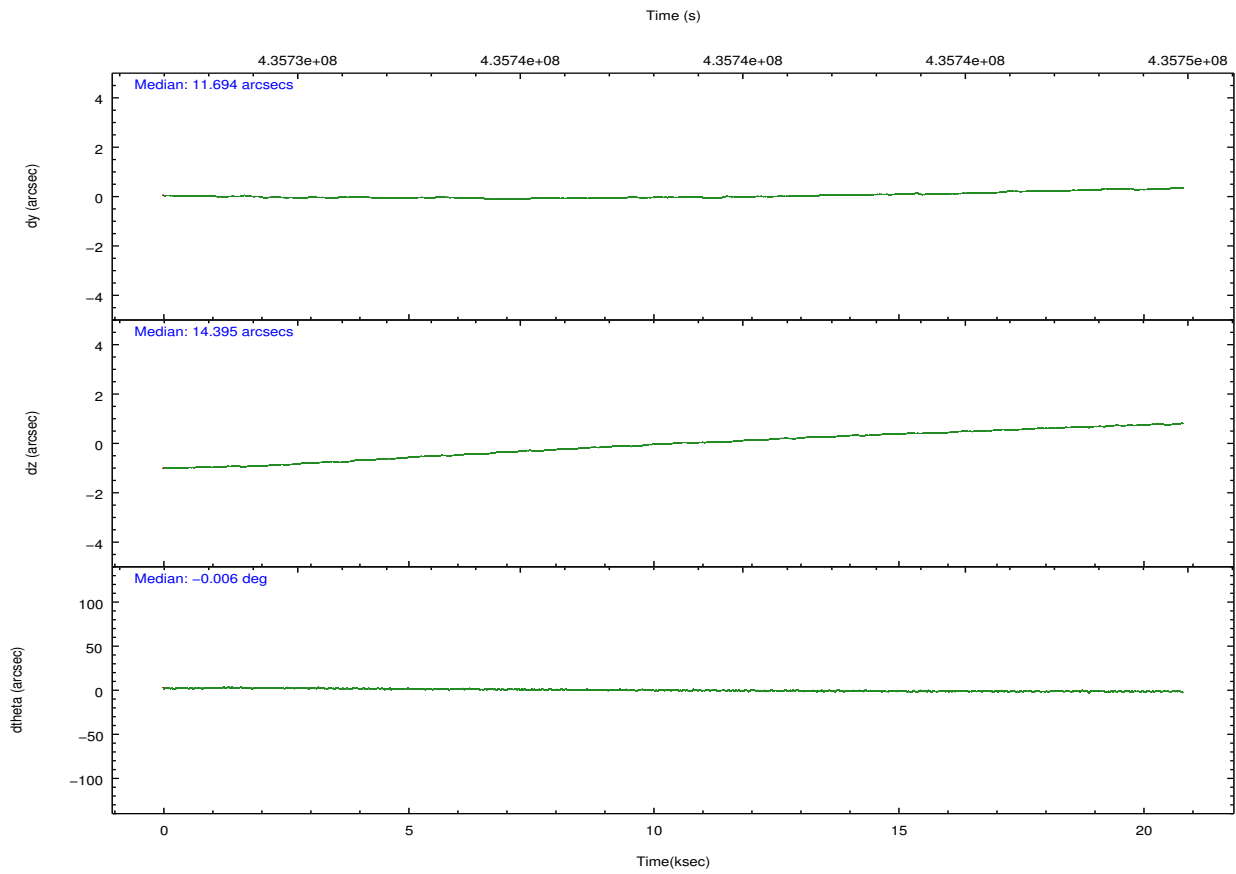
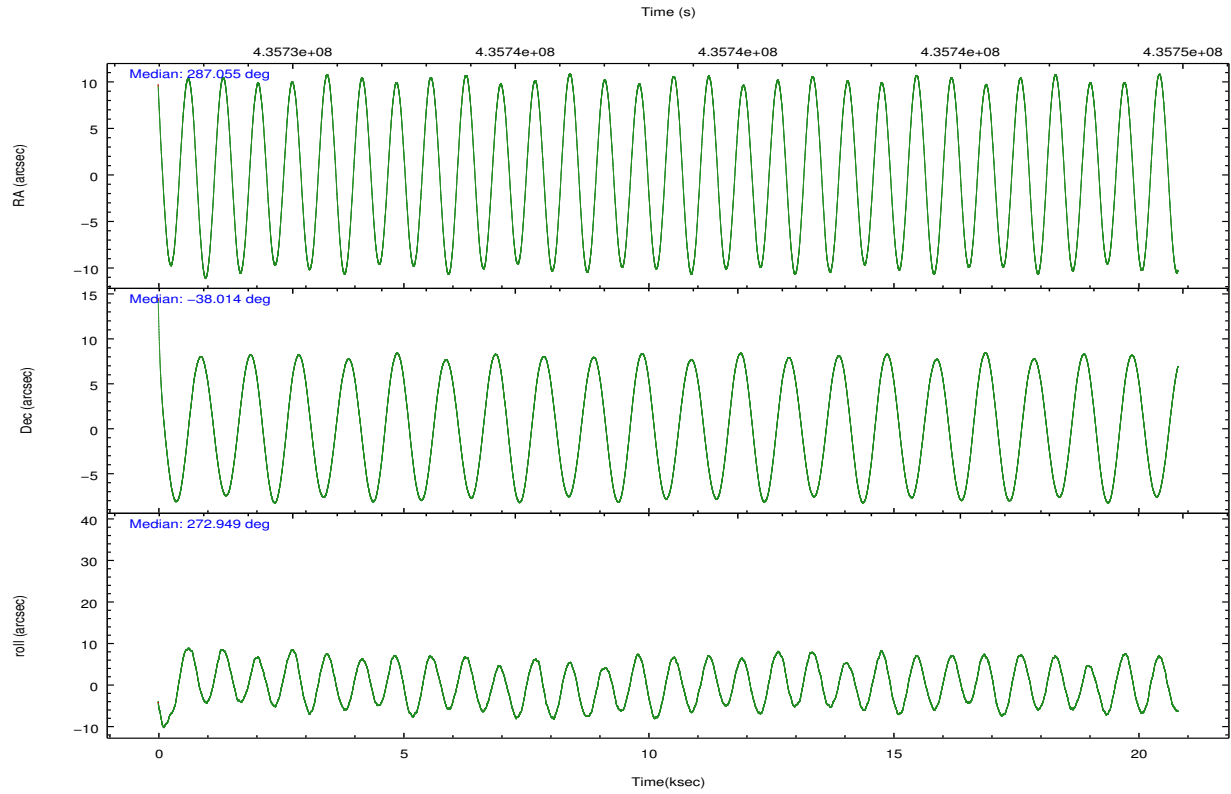
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	4689	6318	5434	6722	19000
	3%	3%	4%	4%	9%
grade 1 events	61	287	72	193	170
	0%	0%	0%	0%	0%
grade 2 events	2983	28516	3667	14878	14369
	2%	14%	2%	9%	7%
grade 3 events	1434	3819	1601	6327	8757
	1%	1%	1%	3%	4%
grade 4 events	1428	3606	1553	6299	7941
	1%	1%	1%	3%	4%
grade 5 events	5782	14997	6020	16647	9123
	4%	7%	4%	10%	4%
grade 6 events	2776	50807	3358	37717	18501
	2%	26%	2%	23%	9%
grade 7 events	106424	86099	111996	71527	116605
	84%	44%	83%	44%	59%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-35678	ACIS-35678	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	287.035779	287.0550362507362	CCD I2 on	N	N
[deg] Pointing Dec	-37.991115	-38.01386881344371	CCD I3 on	O1	Y
[deg] Pointing Roll	272.789684	272.9581680586526	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)	435728827.184000	435727038.2279	CCD S5 on	N	N
Observation start date	2011-10-23T03:46:01	2011-10-23T03:17:18	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	435748827.184000	435749714.81659	On-chip summing requested	N	N
Observation end date	2011-10-23T09:19:21	2011-10-23T09:35:14	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



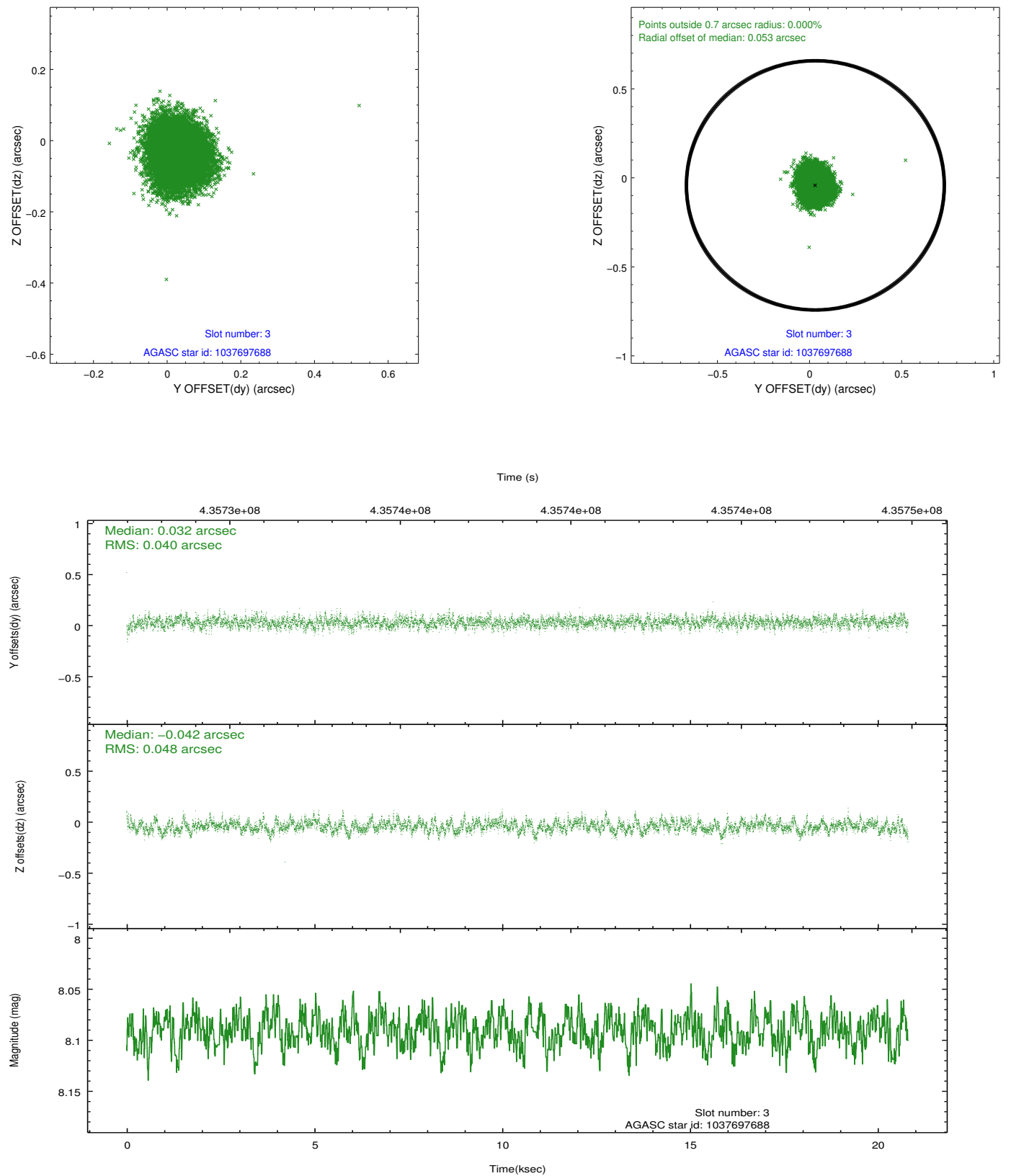


Slot Statistics

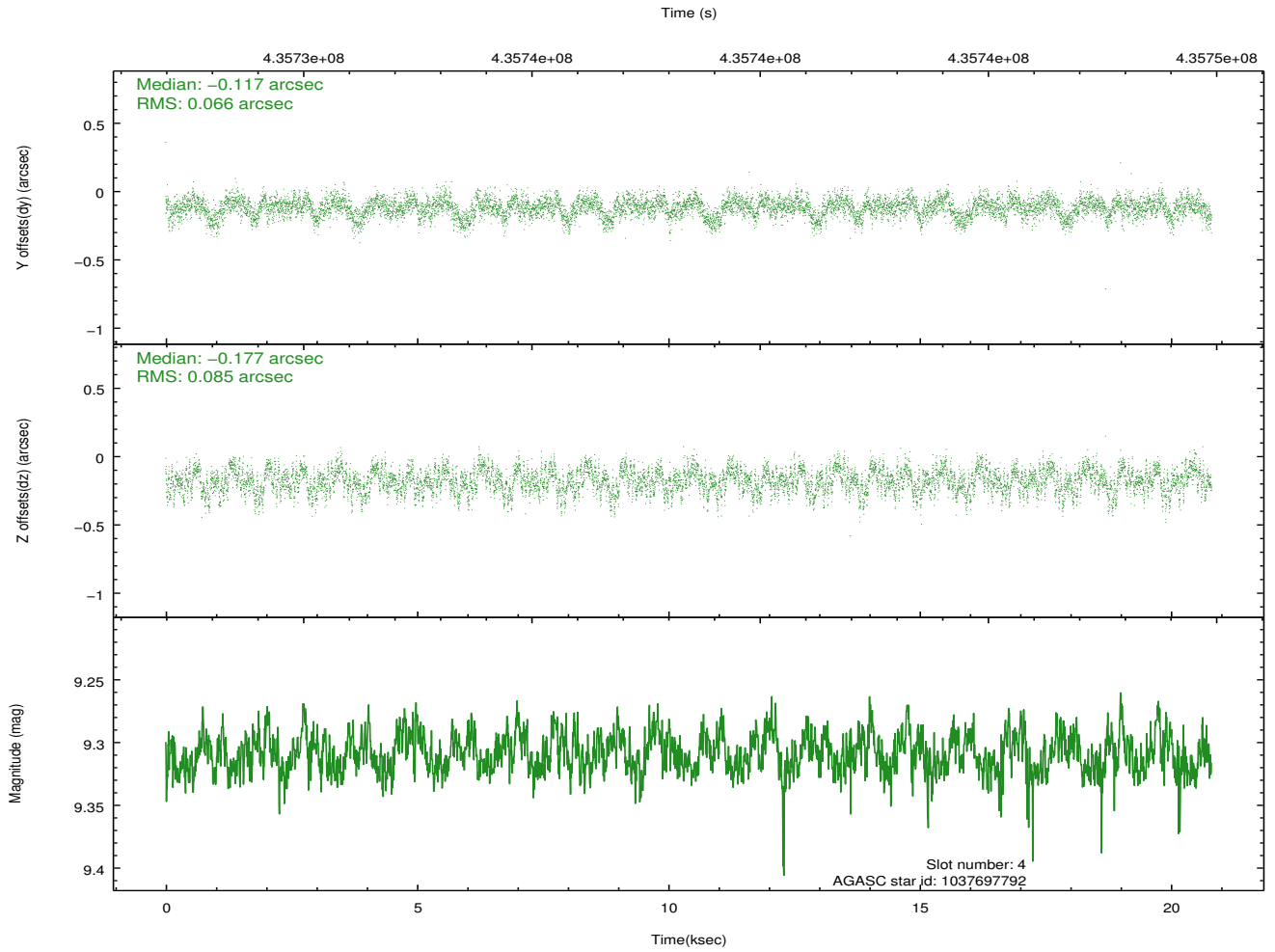
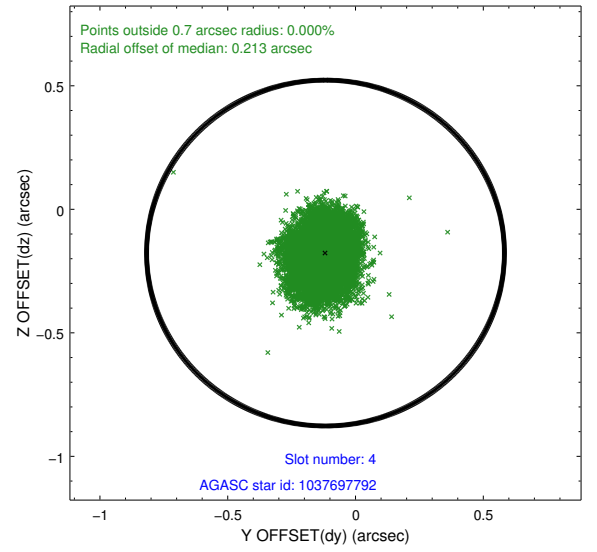
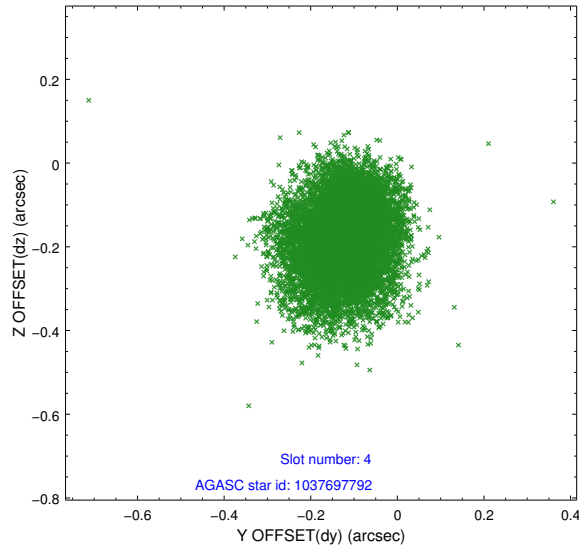
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.03	5076	0.084	-0.047	0.017	0.037	0.000000	0.000000	931.52	-1731.36
1	FID	ACIS-S-5	7.06	5076	-0.132	0.057	0.011	0.021	0.000000	0.000000	-1817.61	166.10
2	FID	ACIS-S-6	7.16	5076	0.027	-0.002	0.024	0.045	0.000000	0.000000	396.80	810.22
3	GUIDE	1037697688	8.09	10147	0.032	-0.042	0.067	0.109	286.249349	-37.961332	-205.45	-2224.62
4	GUIDE	1037697792	9.31	10144	-0.117	-0.177	0.116	0.185	286.411240	-37.897993	-414.83	-1756.40
5	GUIDE	1037706008	9.22	10139	-0.032	-0.032	0.116	0.187	286.532417	-38.133000	445.36	-1448.56
6	GUIDE	1037833536	8.81	10146	0.094	0.152	0.072	0.117	287.675522	-38.433308	1684.22	1724.58
7	GUIDE	1037835640	8.97	10145	0.031	0.100	0.093	0.145	287.861941	-38.242921	1029.65	2289.04

2.4 Star Slots

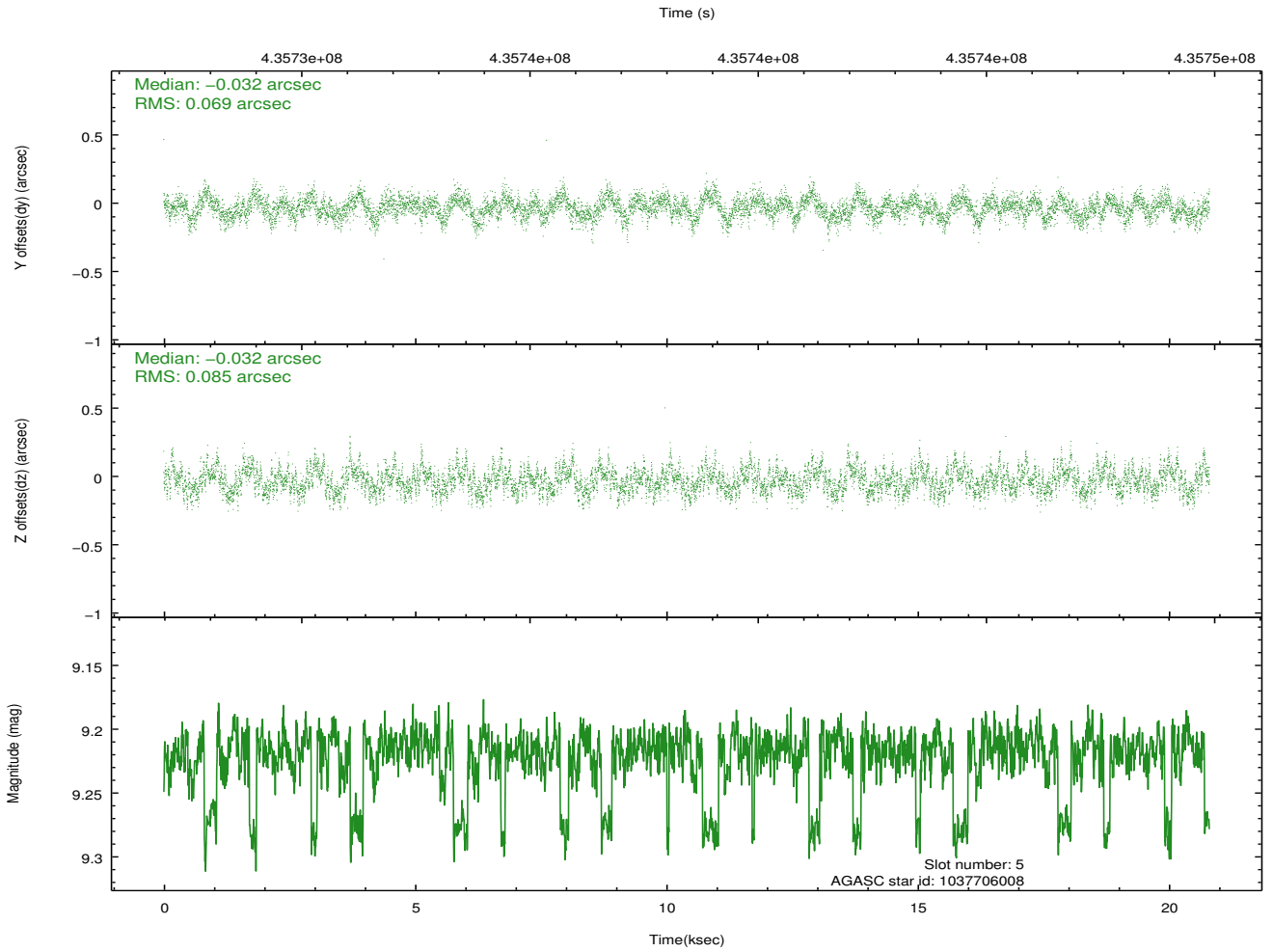
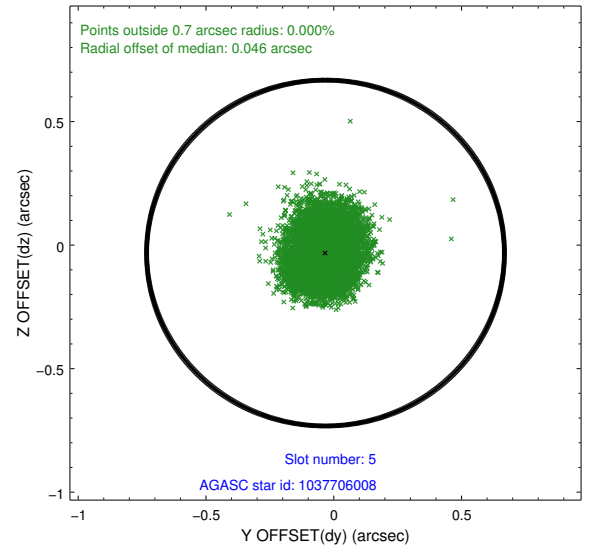
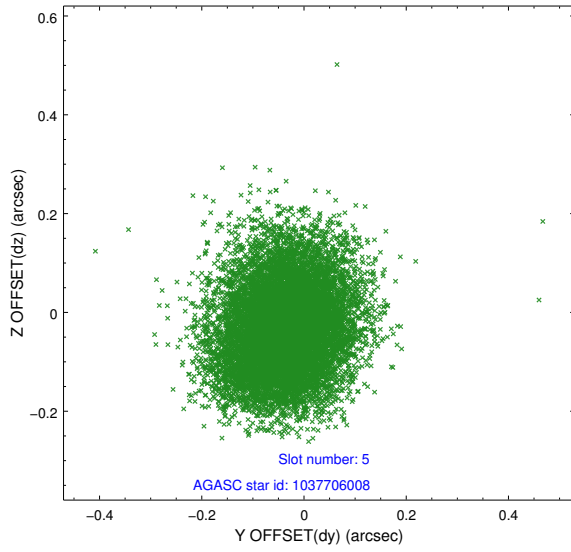
2.4.1 Slot 3



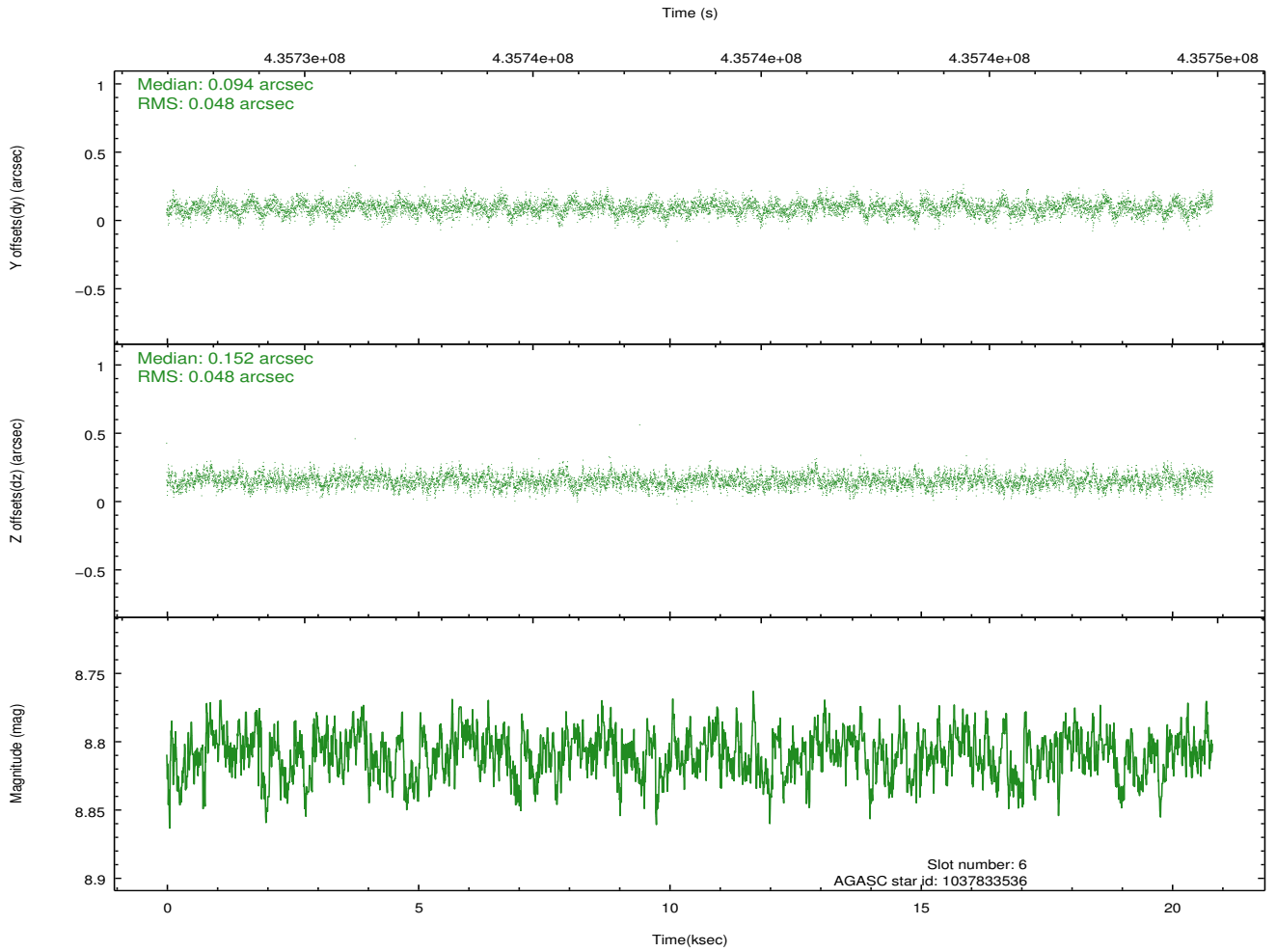
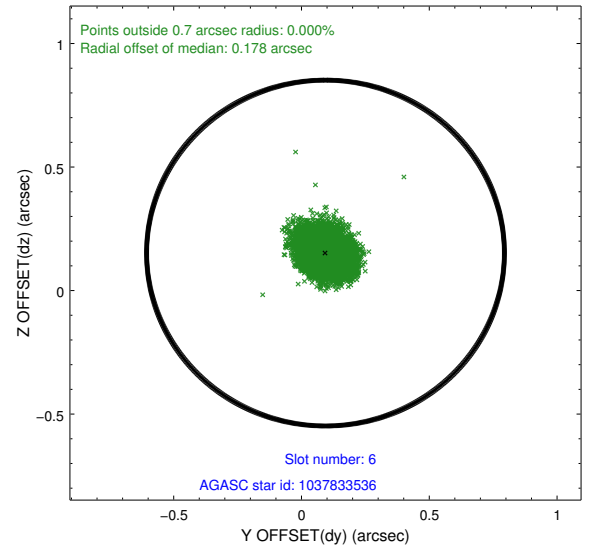
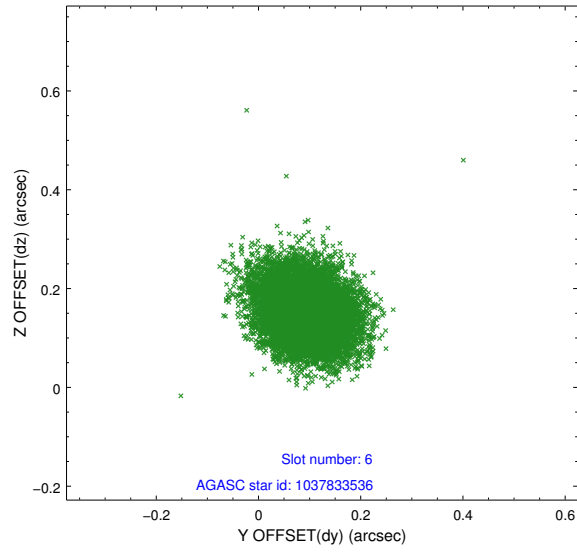
2.4.2 Slot 4



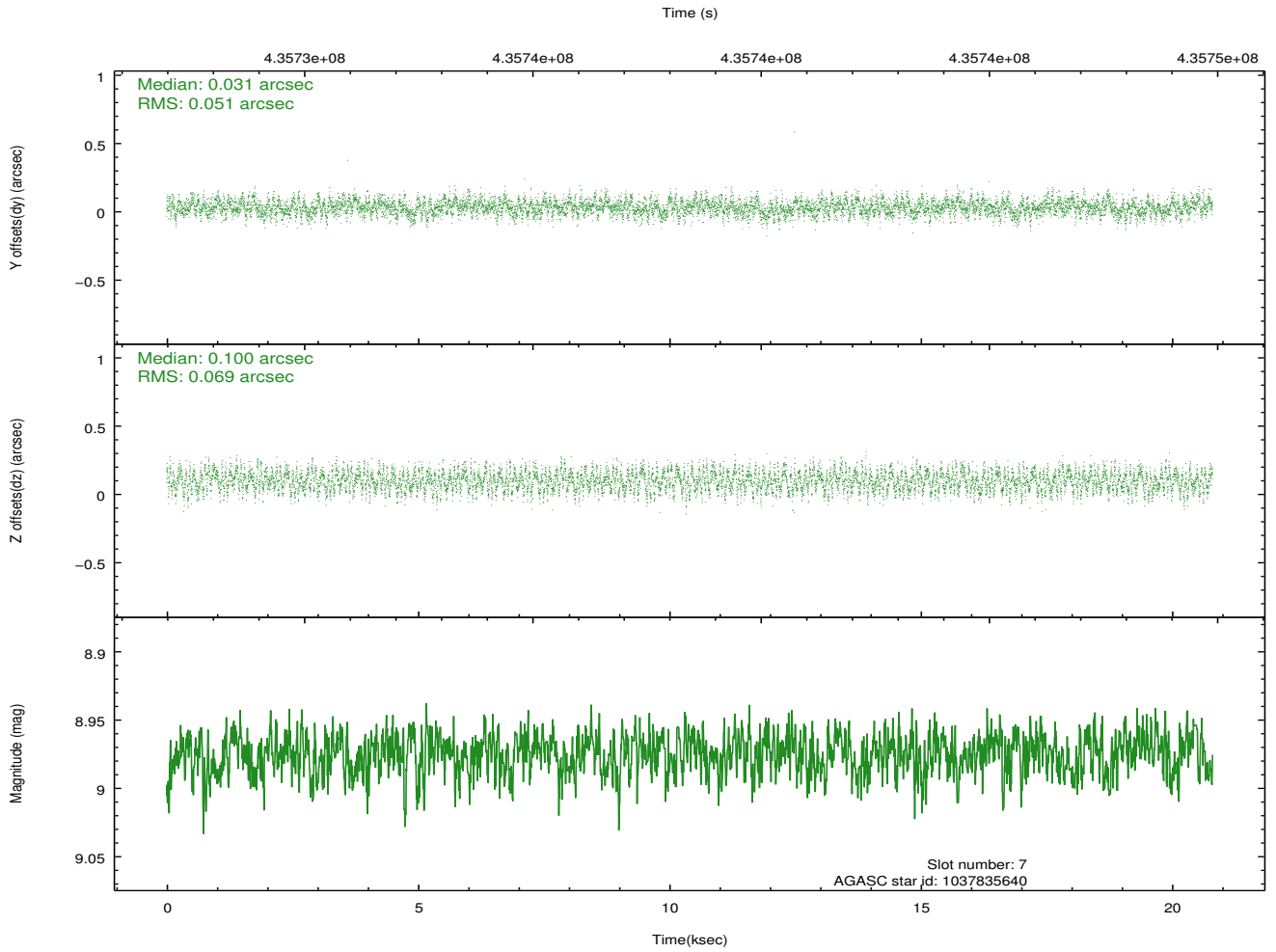
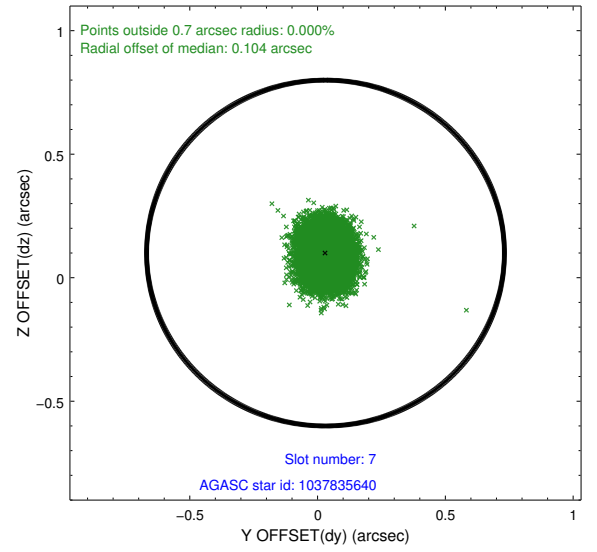
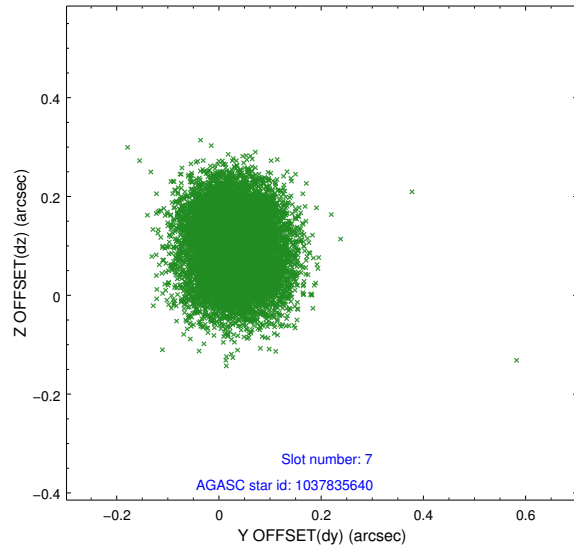
2.4.3 Slot 5



2.4.4 Slot 6

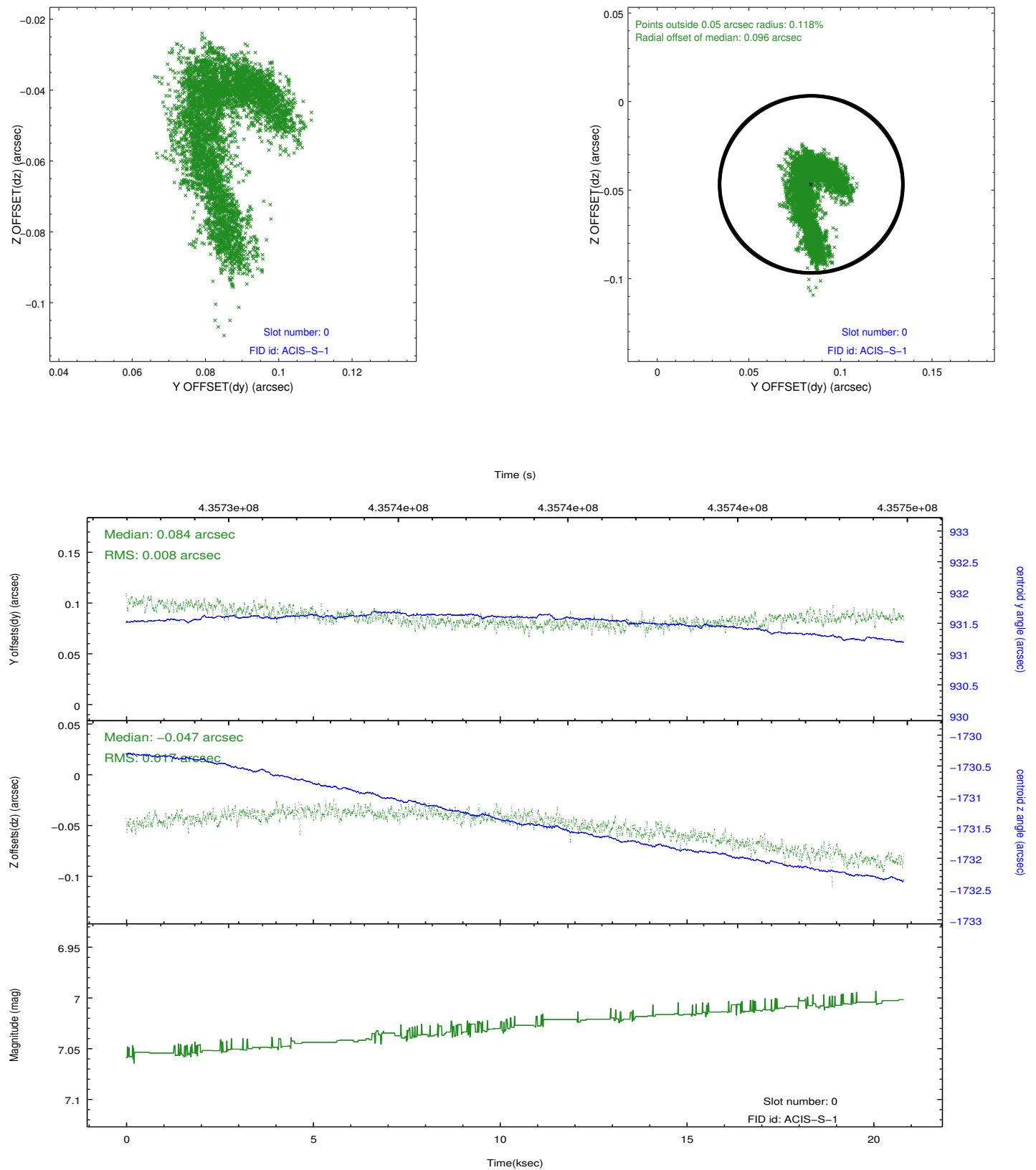


2.4.5 Slot 7

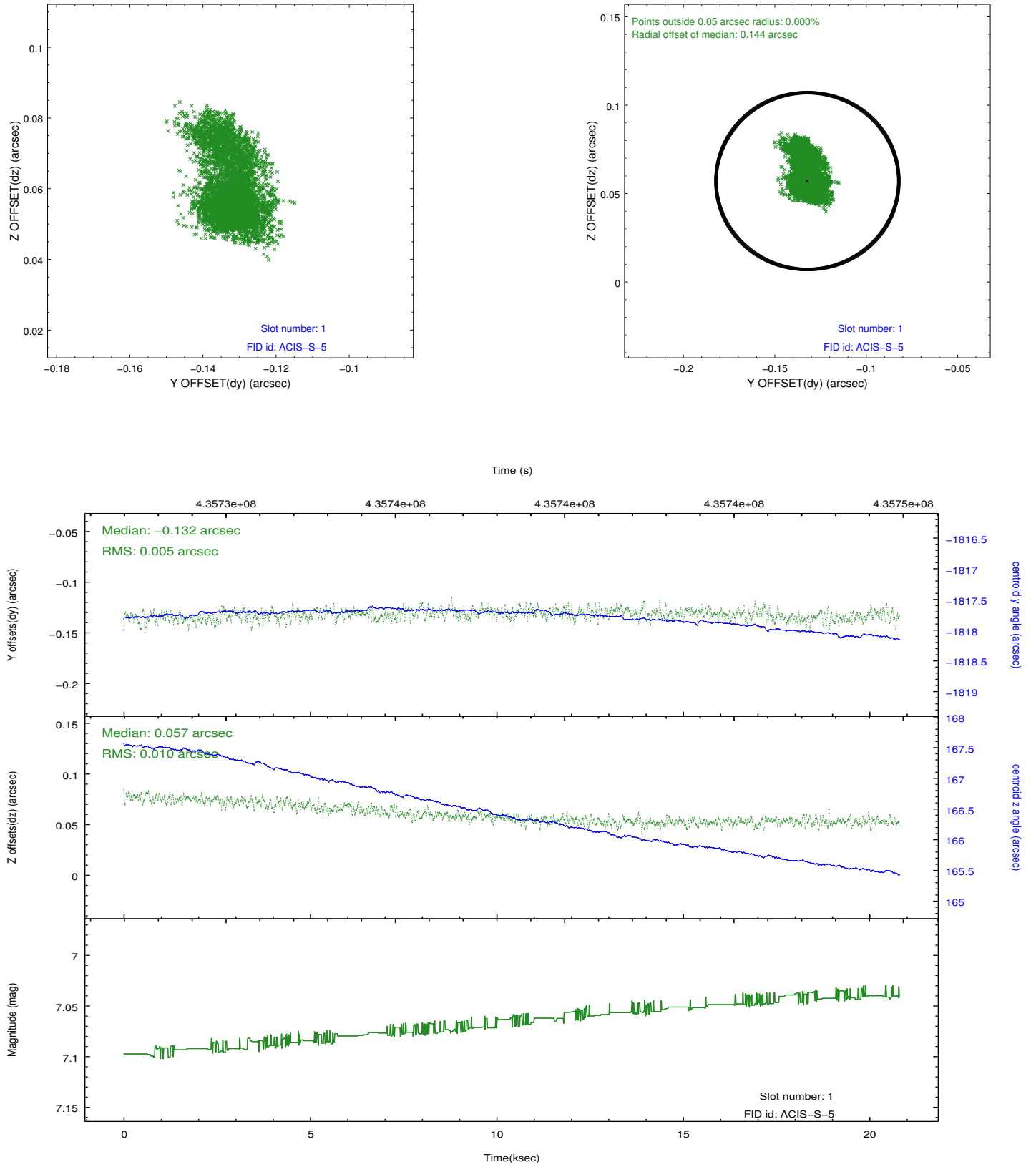


2.5 FID Slots

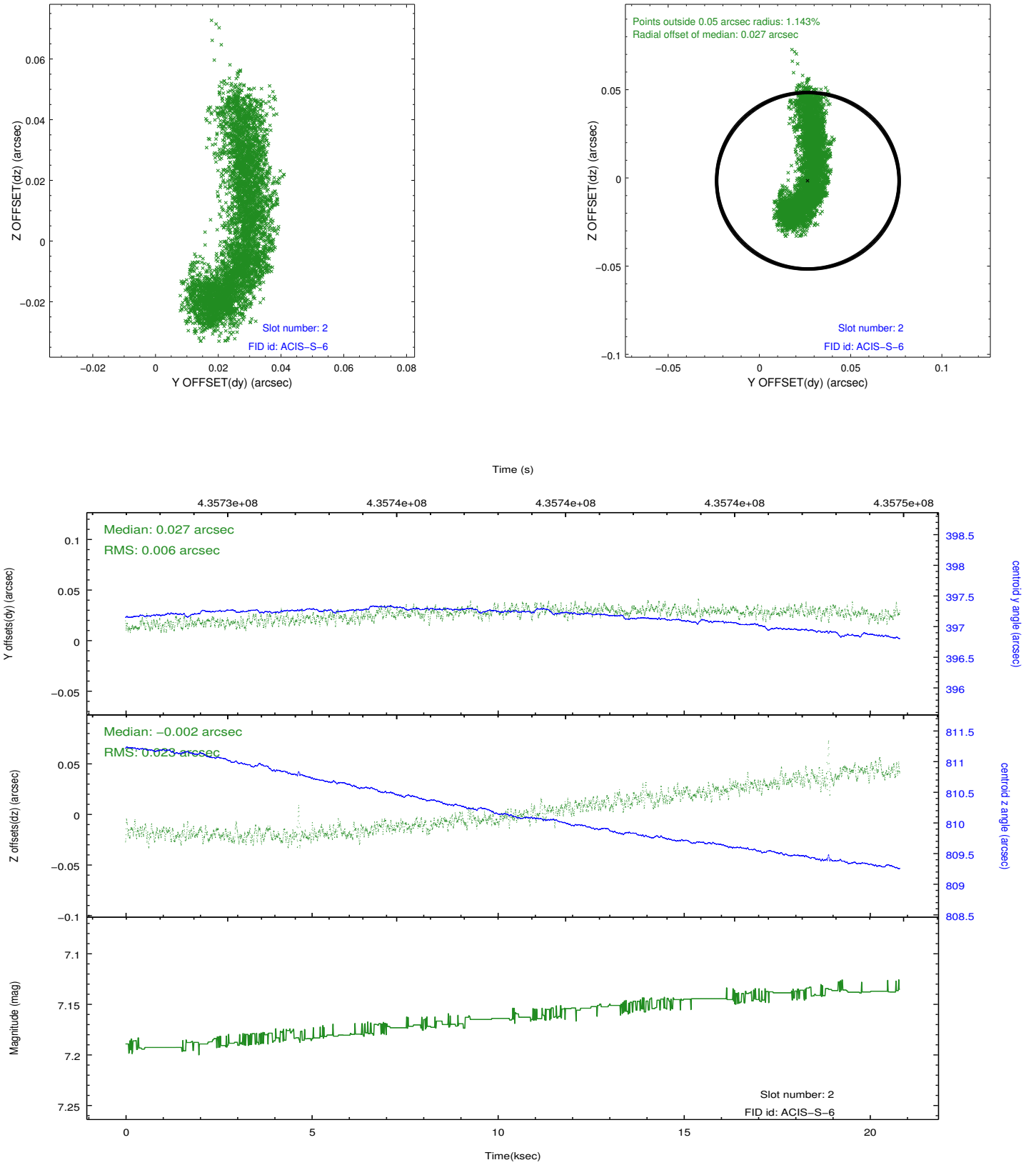
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.03.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.041500154138

A.2 Comments