

V&V Reference Report

L2 ASCDS Version : 8.5.1

Observation 15362 - L2 Version 2
Chandra X-Ray Center

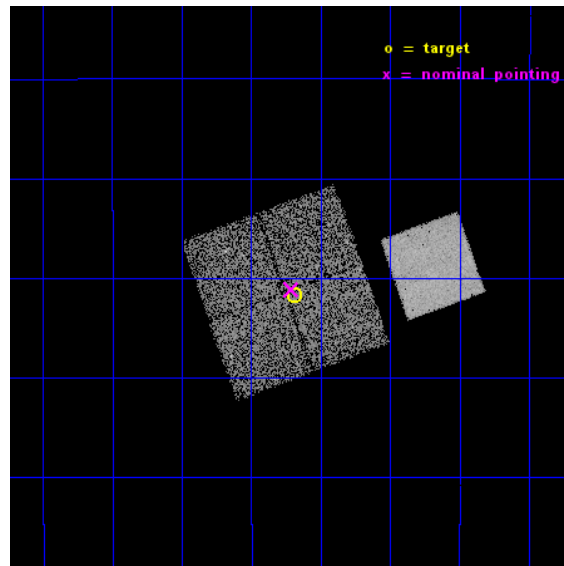
L2 Processing Date : Nov 30 2014

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1 Front

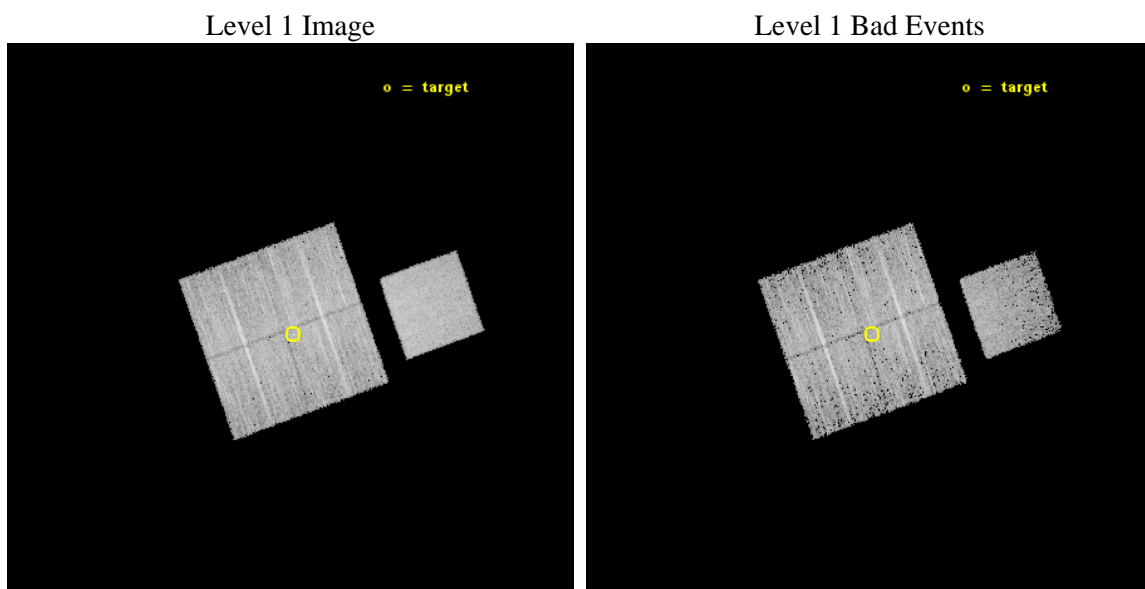
seq_num	502027	Sequence number
obs_id	15362	Observation id
title	Snap-shot survey of galactic gamma-ray sources	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	PSR J1231-1411	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.797083	Observer's specified target RA [deg]
dec_targ	-14.195444	Observer's specified target Dec [deg]
ra_nom	187.80268578992	Nominal RA [deg]
dec_nom	-14.185702698304	Nominal Dec [deg]
roll_nom	70.266817365886	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10067.875082731	Sum of GTIs [s]
livetime	9936.3308829136	Livetime [s]
ontime0	10067.751932859	Sum of GTIs [s]
ontime1	10070.933953226	Sum of GTIs [s]
ontime2	10070.974993229	Sum of GTIs [s]
ontime3	10067.875082731	Sum of GTIs [s]
ontime7	10071.057073236	Sum of GTIs [s]
l2events	45388	Number of level 2 events



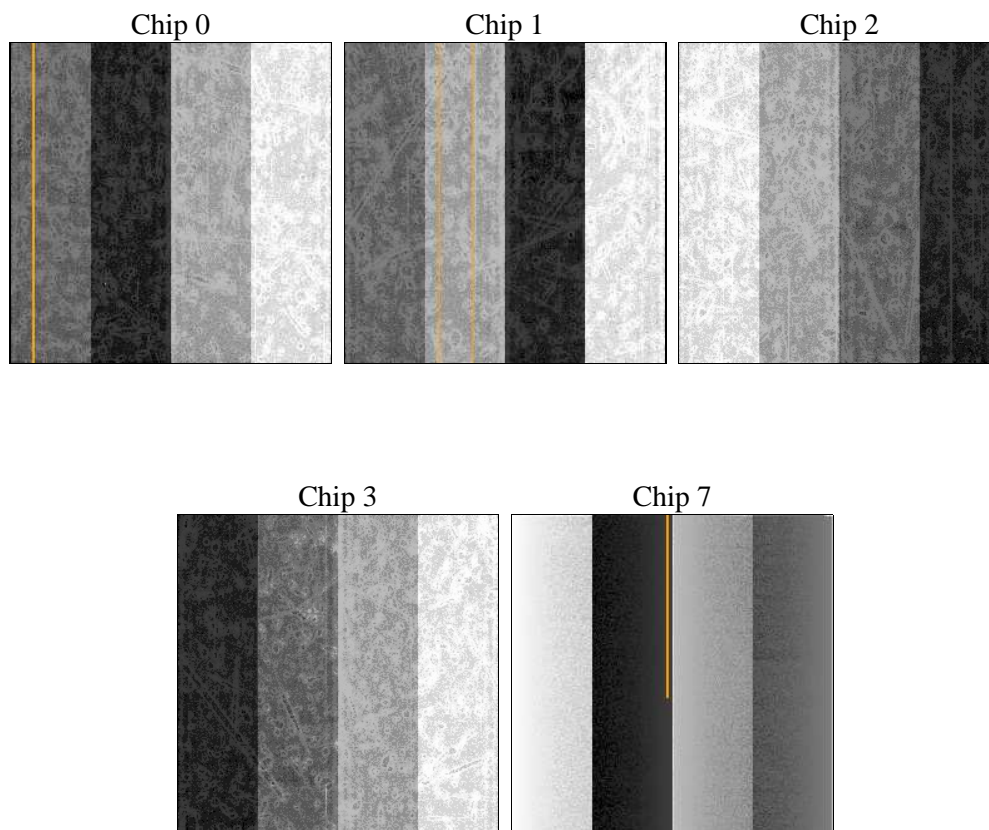
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	10067.875082731	Sum of GTIs [s]
caldbver	4.6.4	 	ontime0	10067.751932859	Sum of GTIs [s]
date	2014-11-30T05:18:23	Date and time of file creation	ontime1	10070.933953226	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	10070.974993229	Sum of GTIs [s]
			ontime3	10067.875082731	Sum of GTIs [s]
			ontime7	10071.057073236	Sum of GTIs [s]
			l1events	242200	Number of level 1 events

2.1.4 Events

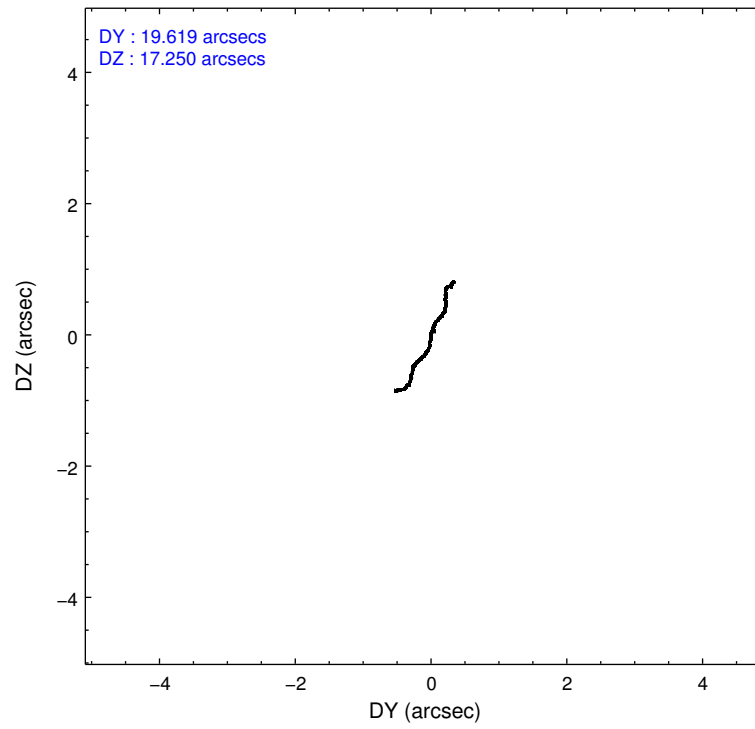
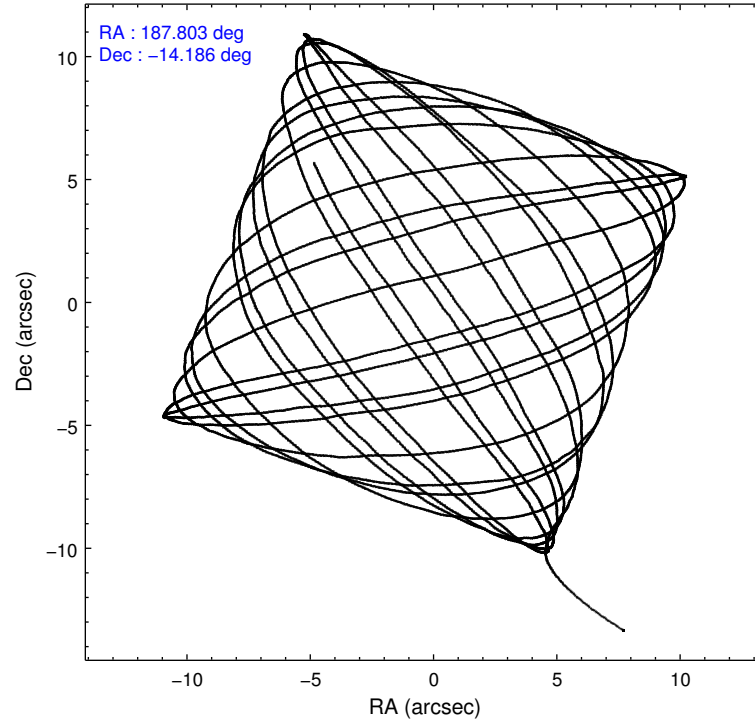
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	45342	43668	49261	46744	57185
rejected events	39392	37617	43587	41148	30241
rejected %	86%	86%	88%	88%	52%

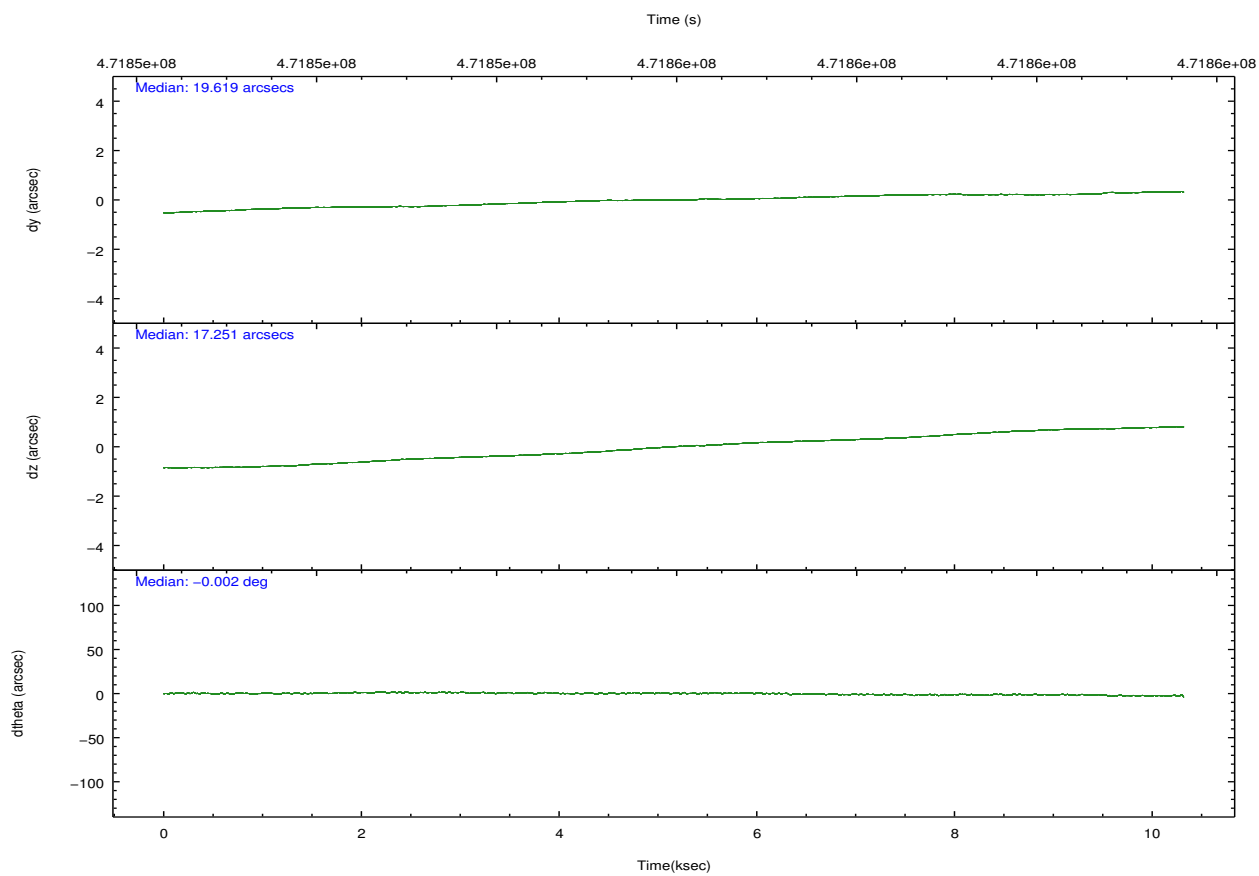
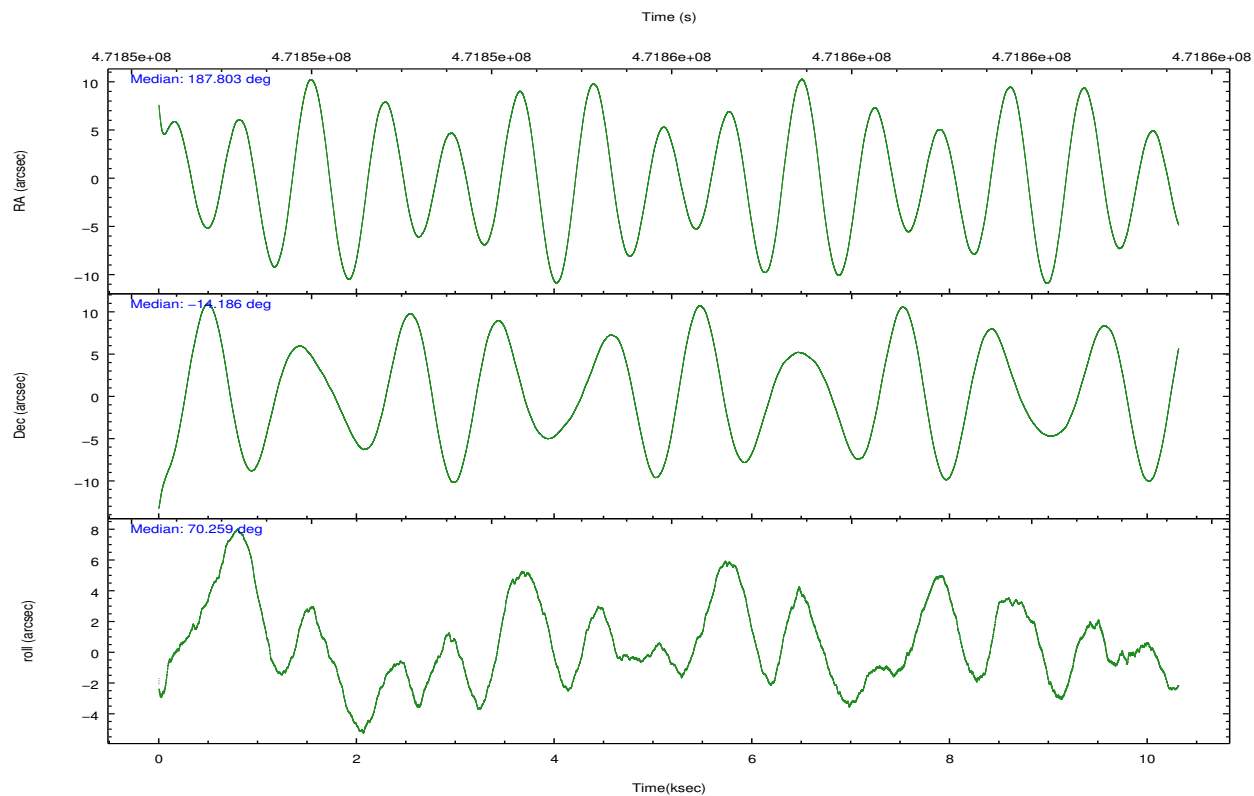
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	2181	2070	2090	2098	2598
	4%	4%	4%	4%	4%
grade 1 events	24	20	31	29	83
	0%	0%	0%	0%	0%
grade 2 events	1511	1436	1427	1244	5769
	3%	3%	2%	2%	10%
grade 3 events	574	645	553	580	2450
	1%	1%	1%	1%	4%
grade 4 events	569	636	568	564	2385
	1%	1%	1%	1%	4%
grade 5 events	1955	2248	1789	2257	6042
	4%	5%	3%	4%	10%
grade 6 events	1116	1265	1040	1112	13762
	2%	2%	2%	2%	24%
grade 7 events	37412	35348	41763	38860	24096
	82%	80%	84%	83%	42%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01237	ACIS-01237	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	187.807815	187.8026857899212	CCD I2 on	Y	Y
[deg] Pointing Dec	-14.212695	-14.18570269830367	CCD I3 on	Y	Y
[deg] Pointing Roll	70.059395	70.26681736588604	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	N	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	471851134.184000	471850117.09607	CCD S5 on	N	N
Observation start date	2012-12-14T05:44:27	2012-12-14T05:28:37	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	471861134.184000	471862356.10923	On-chip summing requested	N	N
Observation end date	2012-12-14T08:31:07	2012-12-14T08:52:36	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



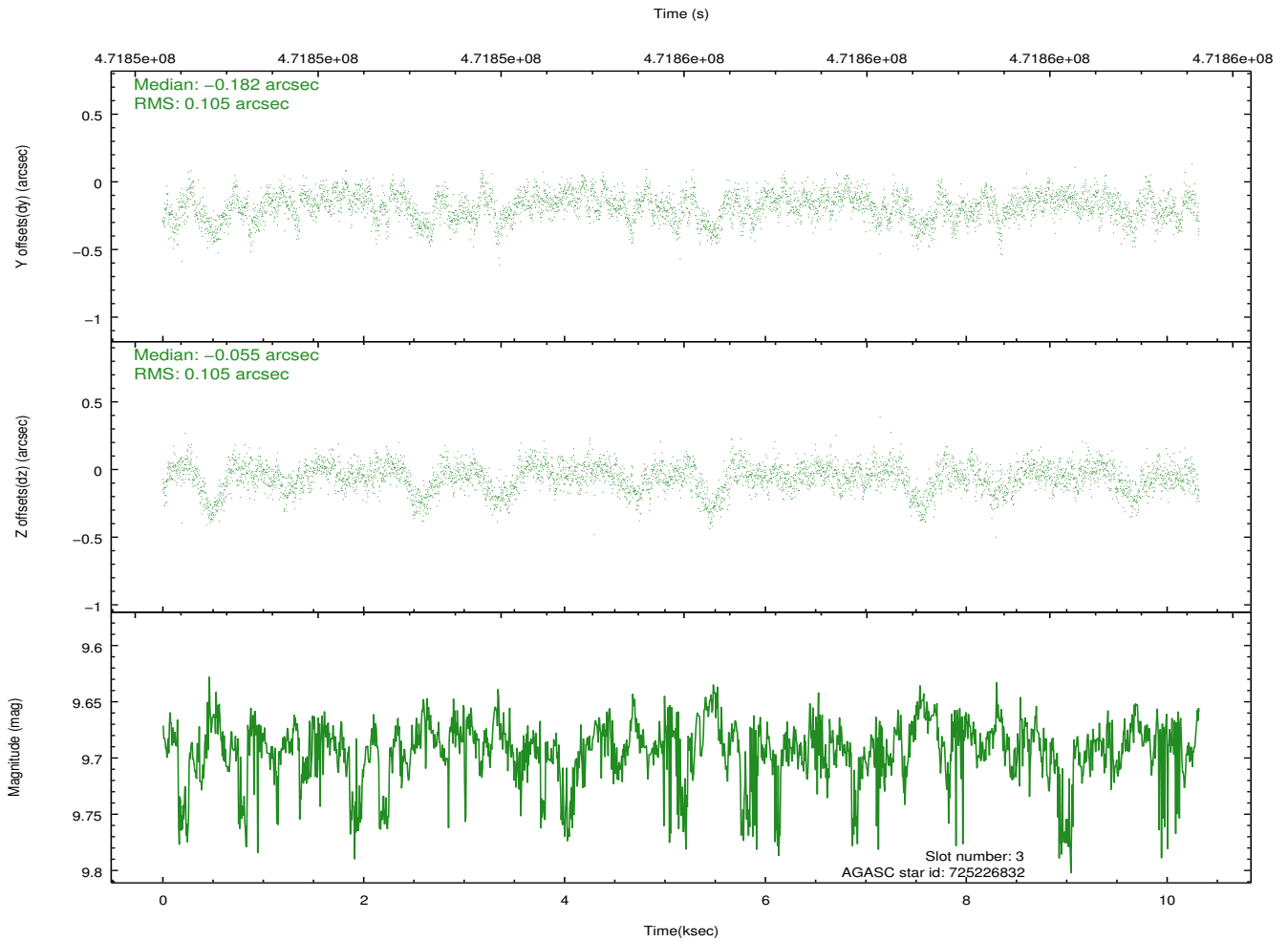
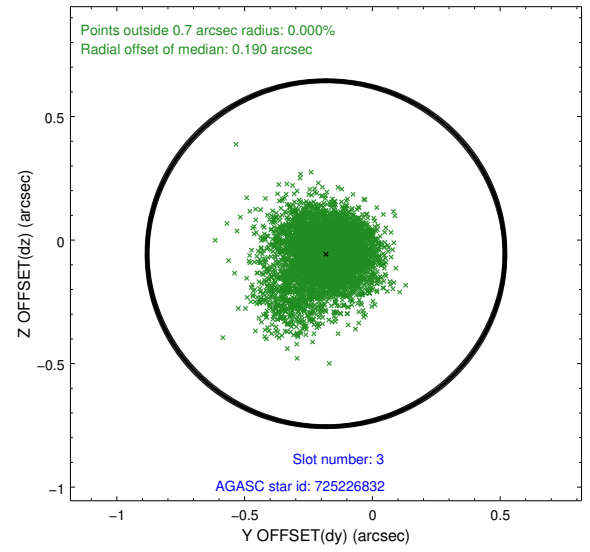
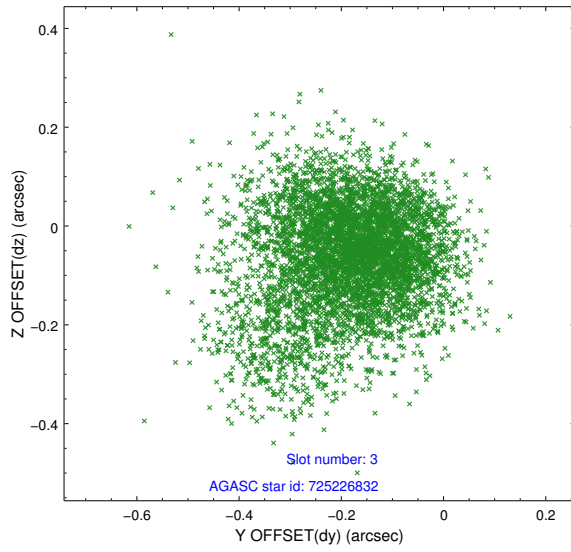


Slot Statistics

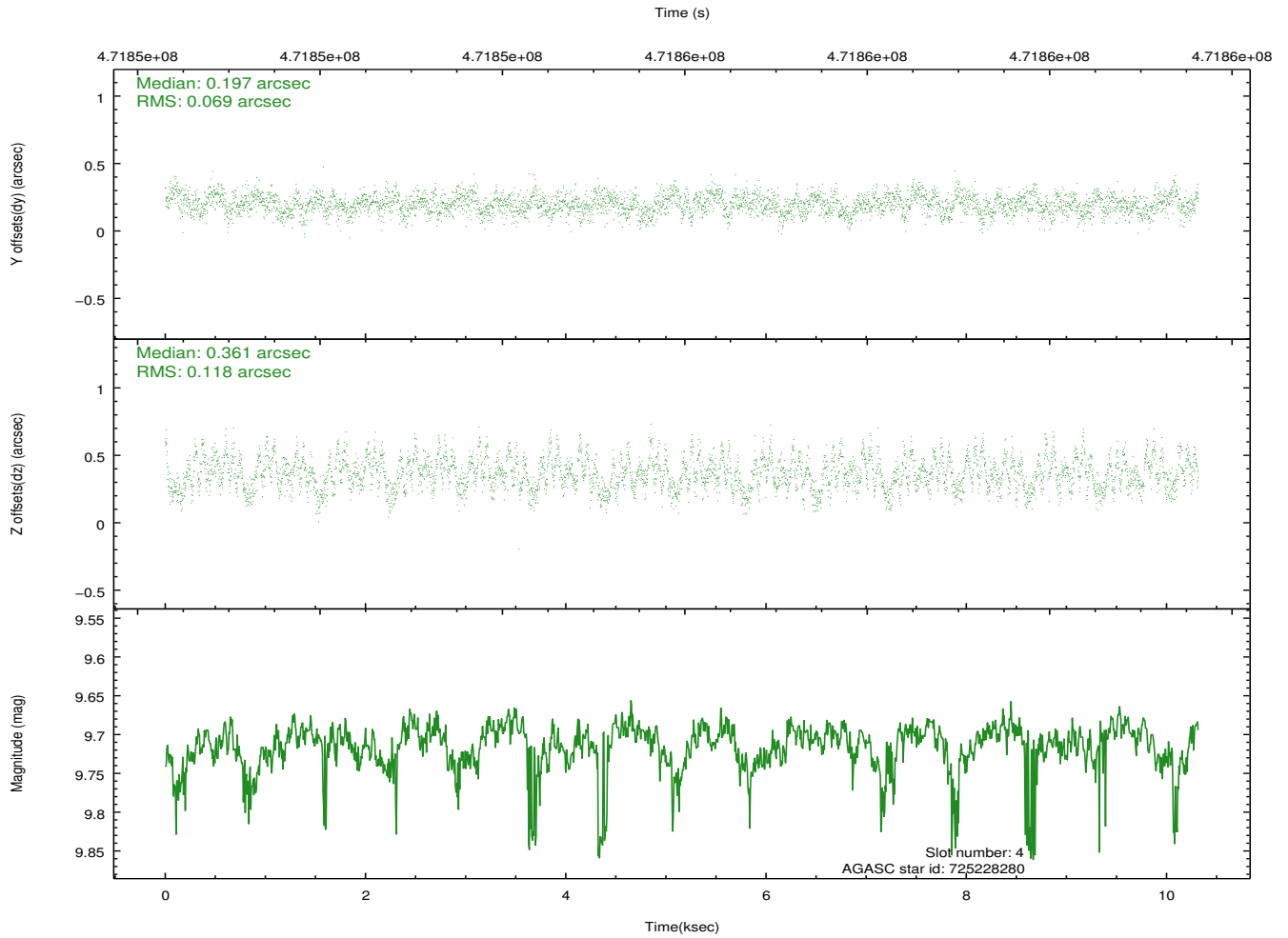
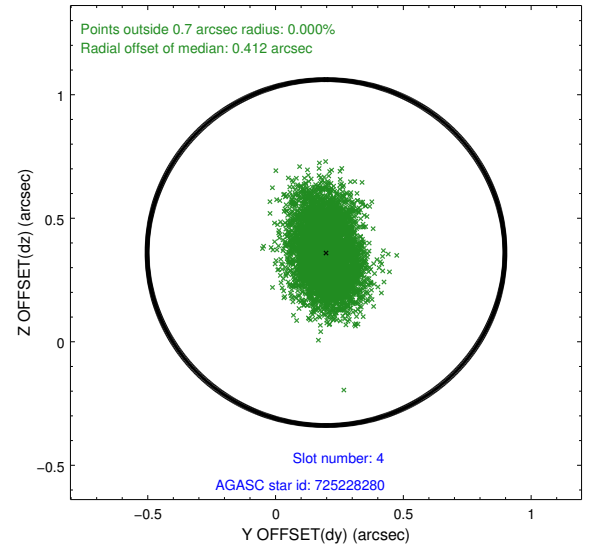
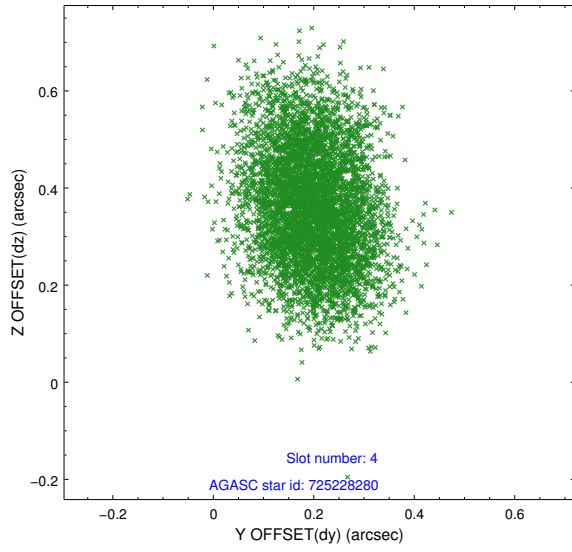
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.09	2517	0.064	-0.010	0.022	0.038	0.000000	0.000000	919.81	-840.87
1	FID		ACIS-I-5	7.06	2517	-0.259	0.059	0.007	0.012	0.000000	0.000000	-1828.35	1056.41
2	FID		ACIS-I-6	7.08	2517	0.104	0.017	0.024	0.032	0.000000	0.000000	384.82	1701.46
3	GUIDE	used	725226832	9.69	5003	-0.182	-0.055	0.154	0.269	188.598538	-13.921181	1924.68	-2240.14
4	GUIDE	used	725228280	9.71	5017	0.197	0.361	0.145	0.239	188.243659	-14.690626	-1100.16	-2013.44
5	GUIDE	used	725234016	6.38	5034	0.091	-0.677	0.080	0.121	187.007502	-14.450936	-1762.90	2327.92
6	GUIDE	used	725235712	6.03	5034	-0.258	-0.121	0.080	0.124	188.149997	-13.859106	1602.21	-687.79
7	GUIDE	used	725228448	10.26	5030	0.147	0.507	0.232	0.382	188.370149	-14.671718	-886.65	-2404.55

2.4 Star Slots

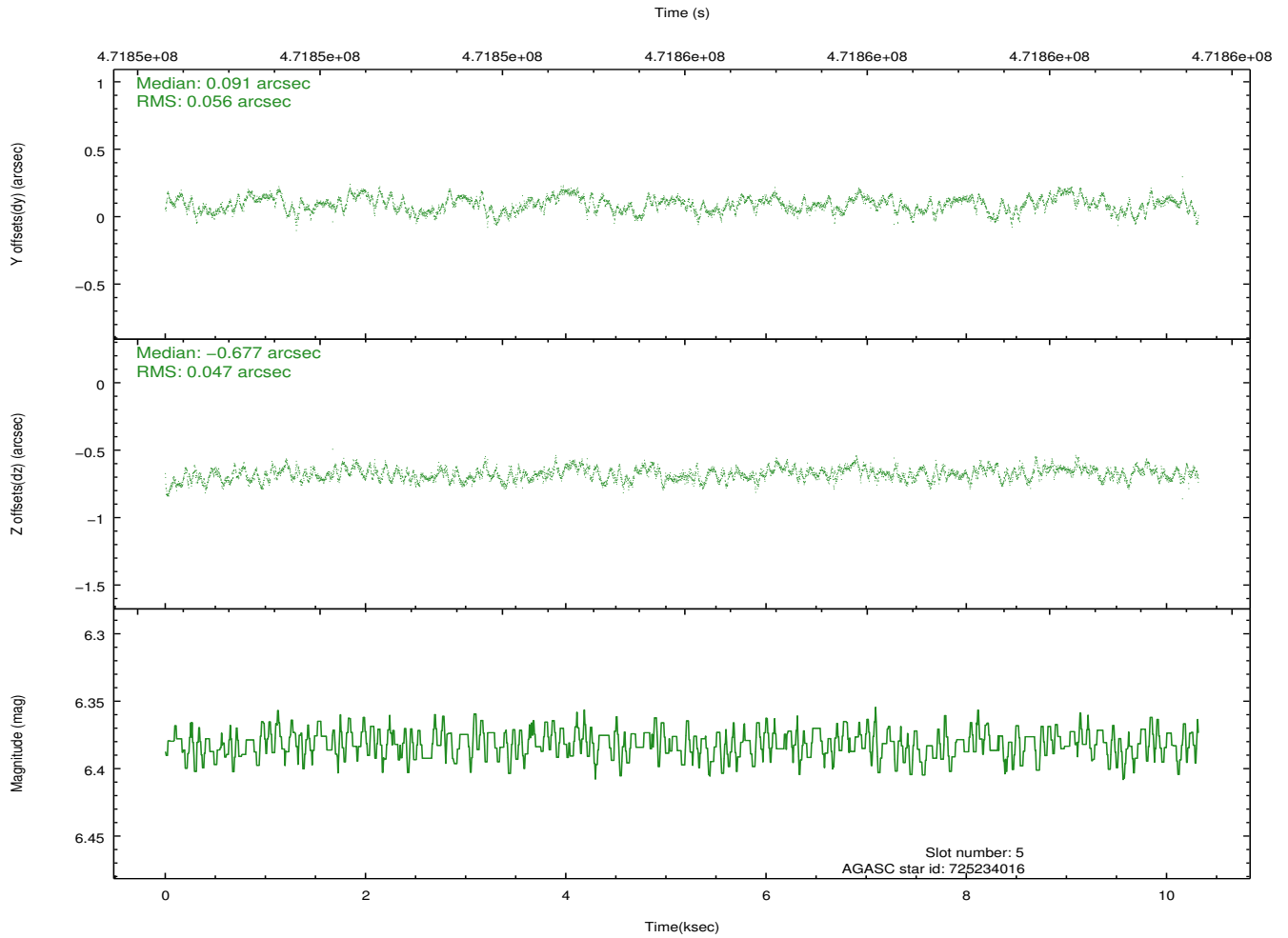
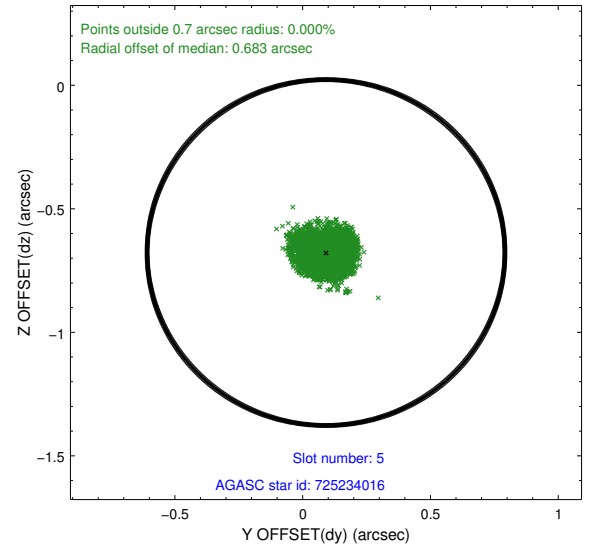
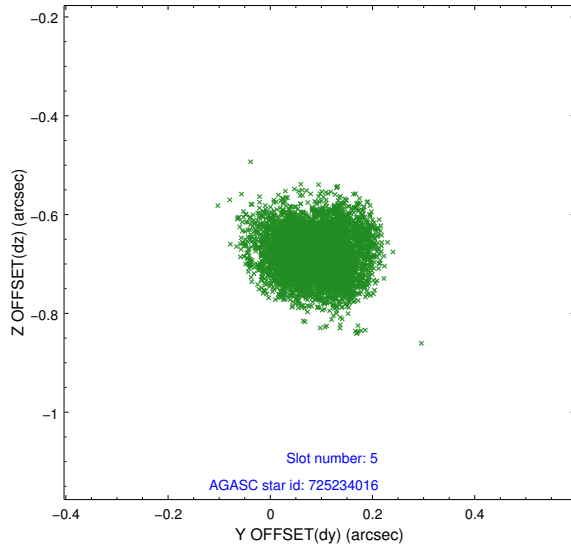
2.4.1 Slot 3



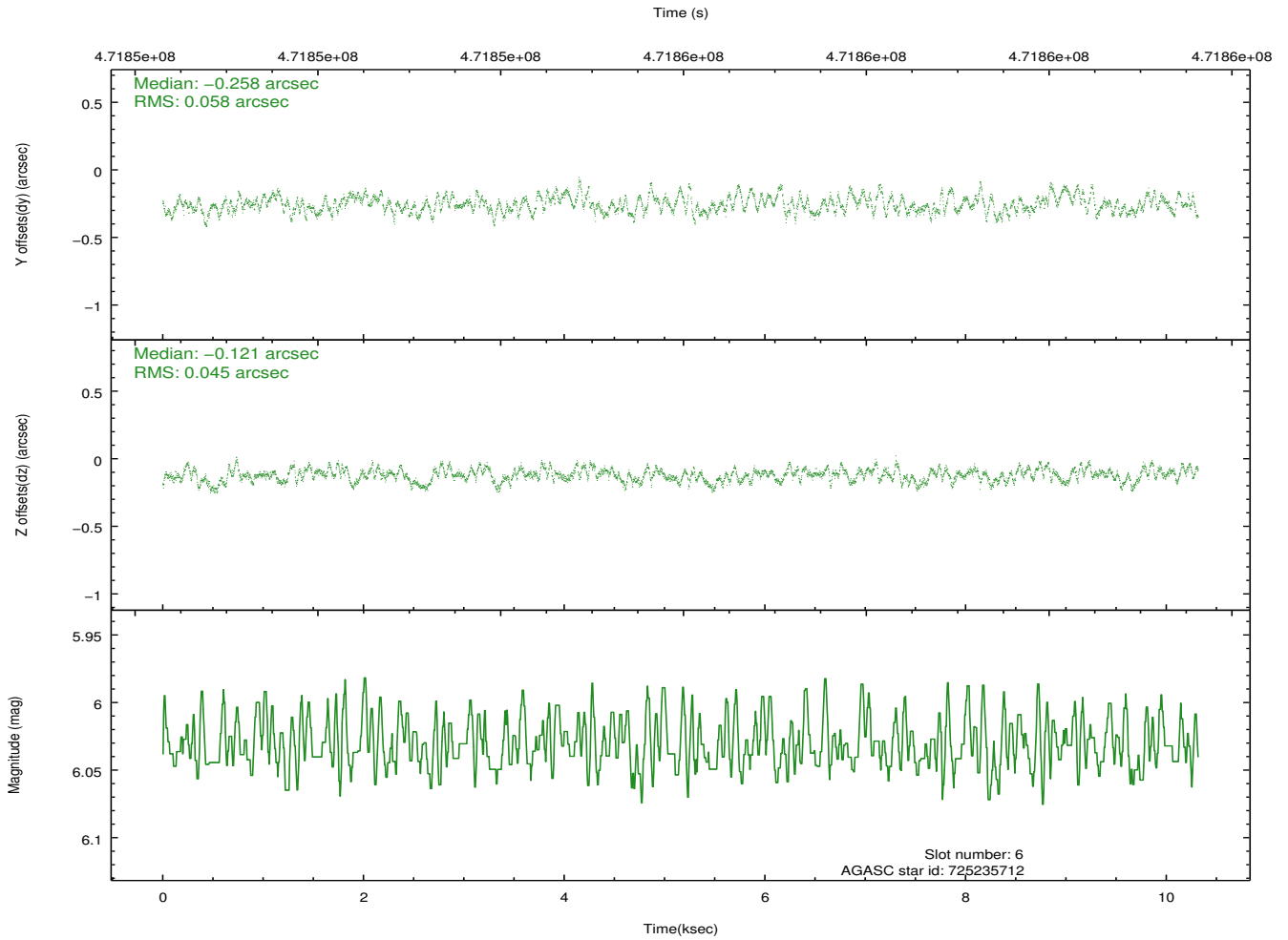
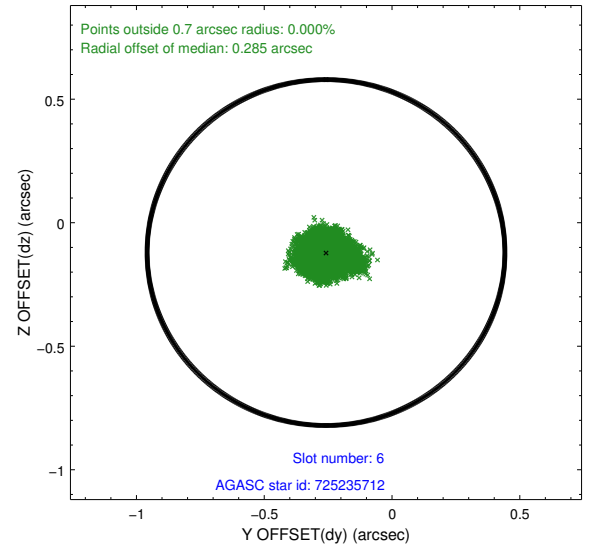
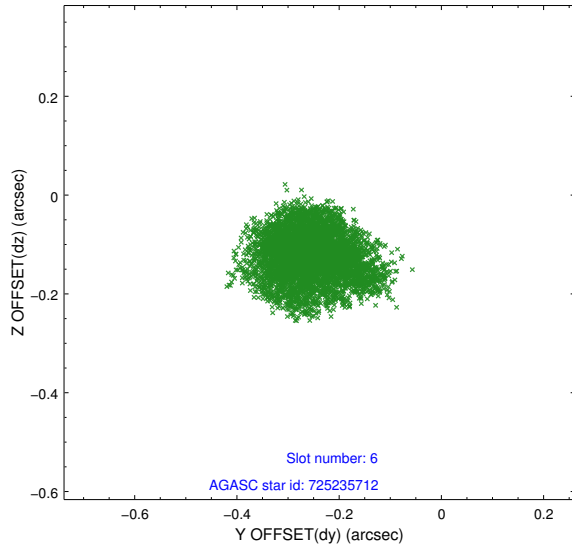
2.4.2 Slot 4



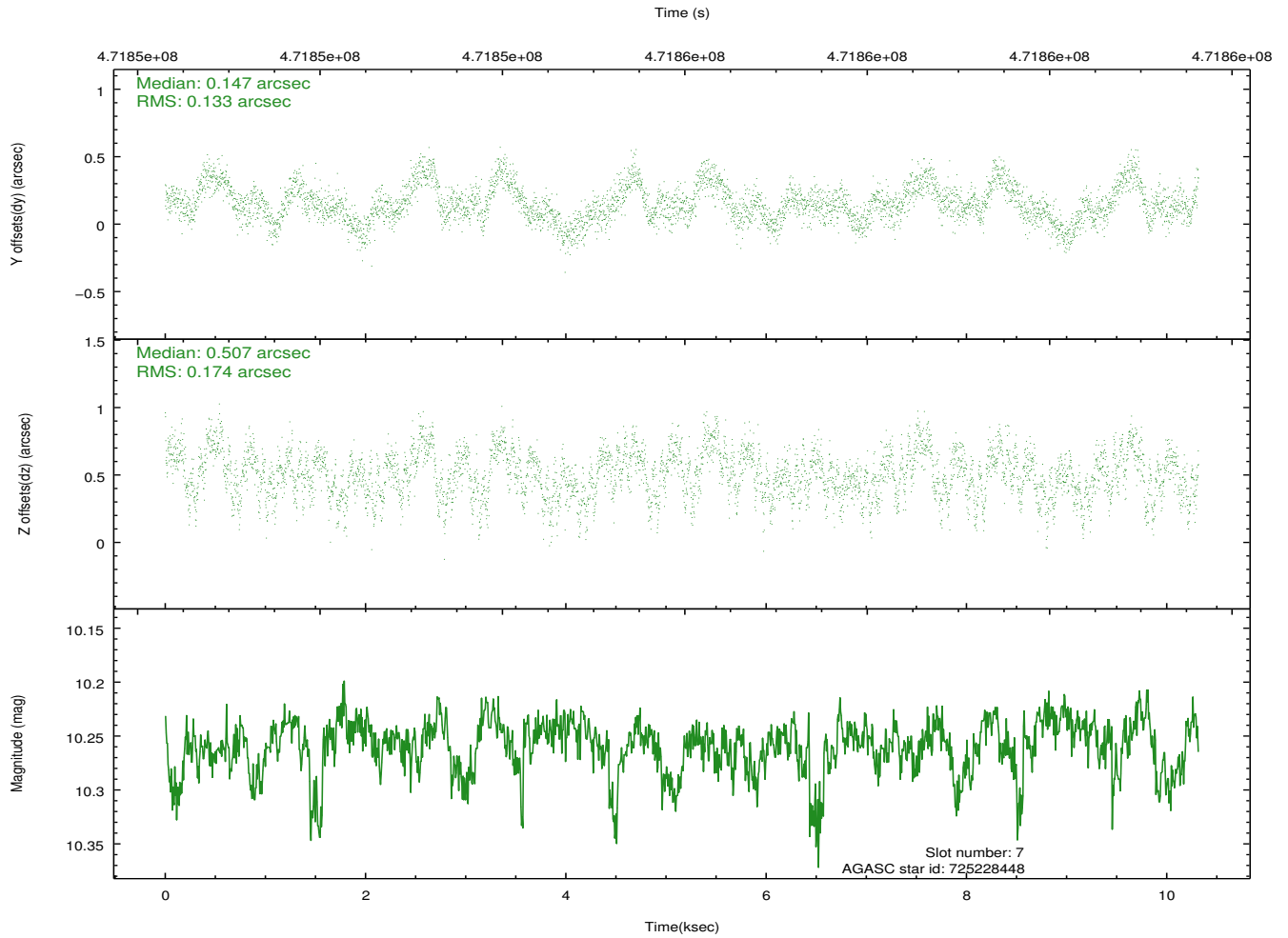
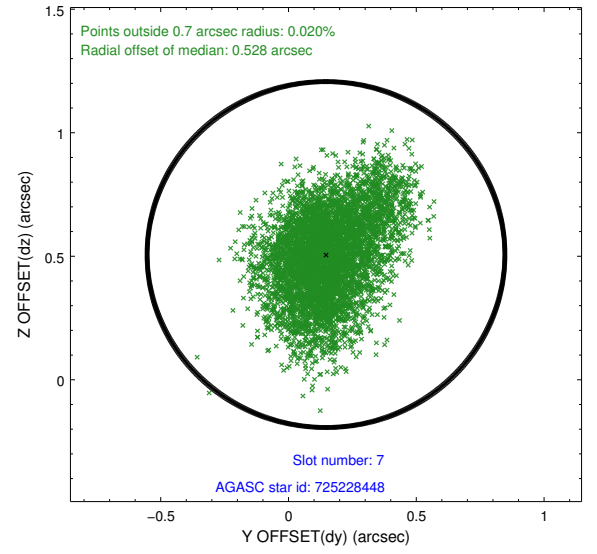
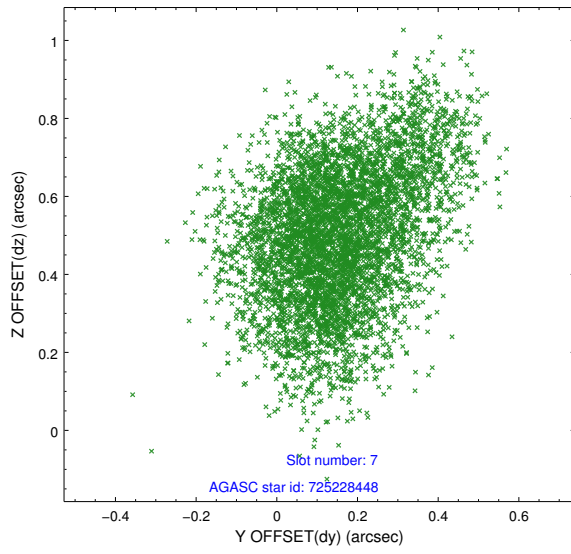
2.4.3 Slot 5



2.4.4 Slot 6

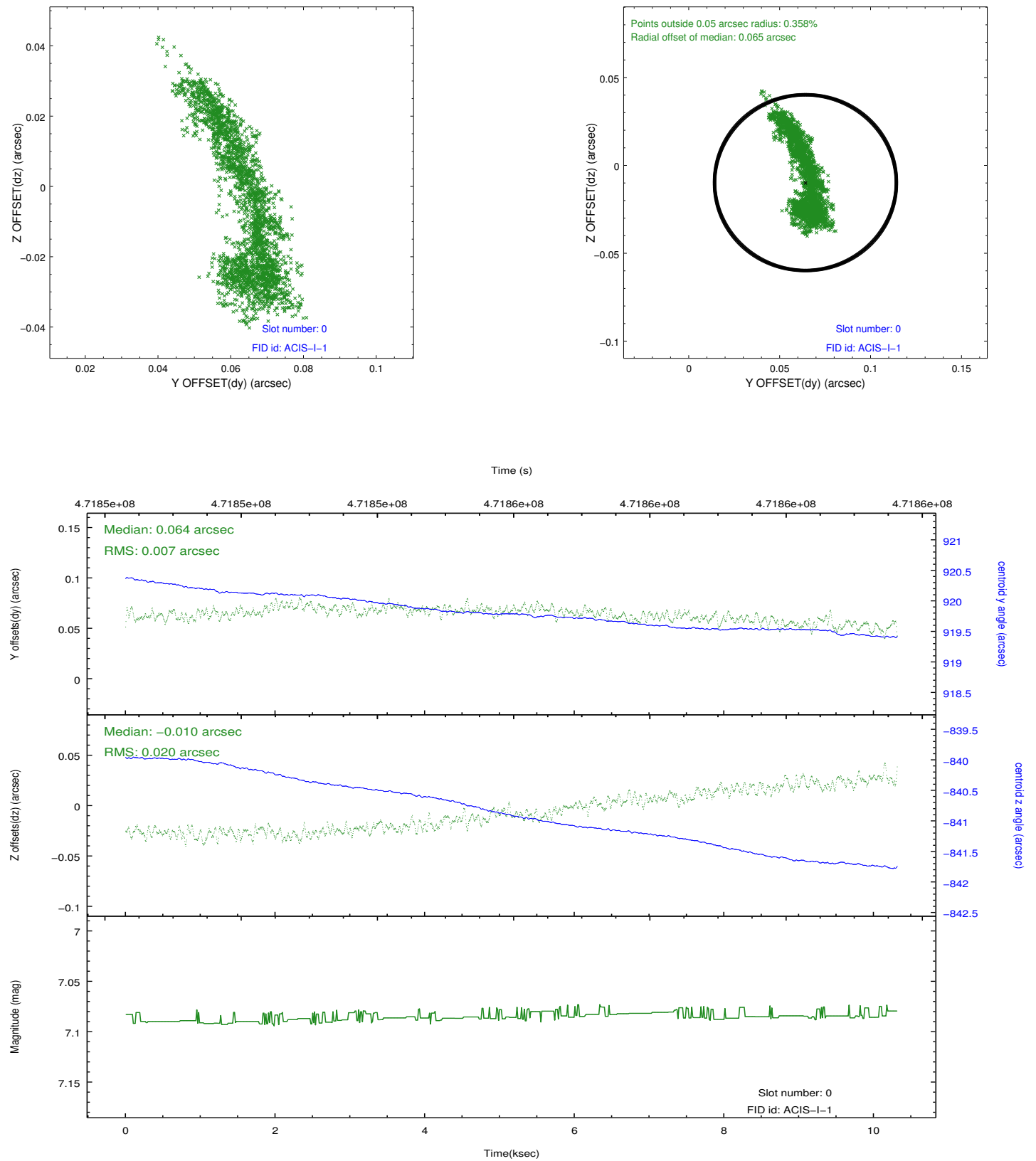


2.4.5 Slot 7

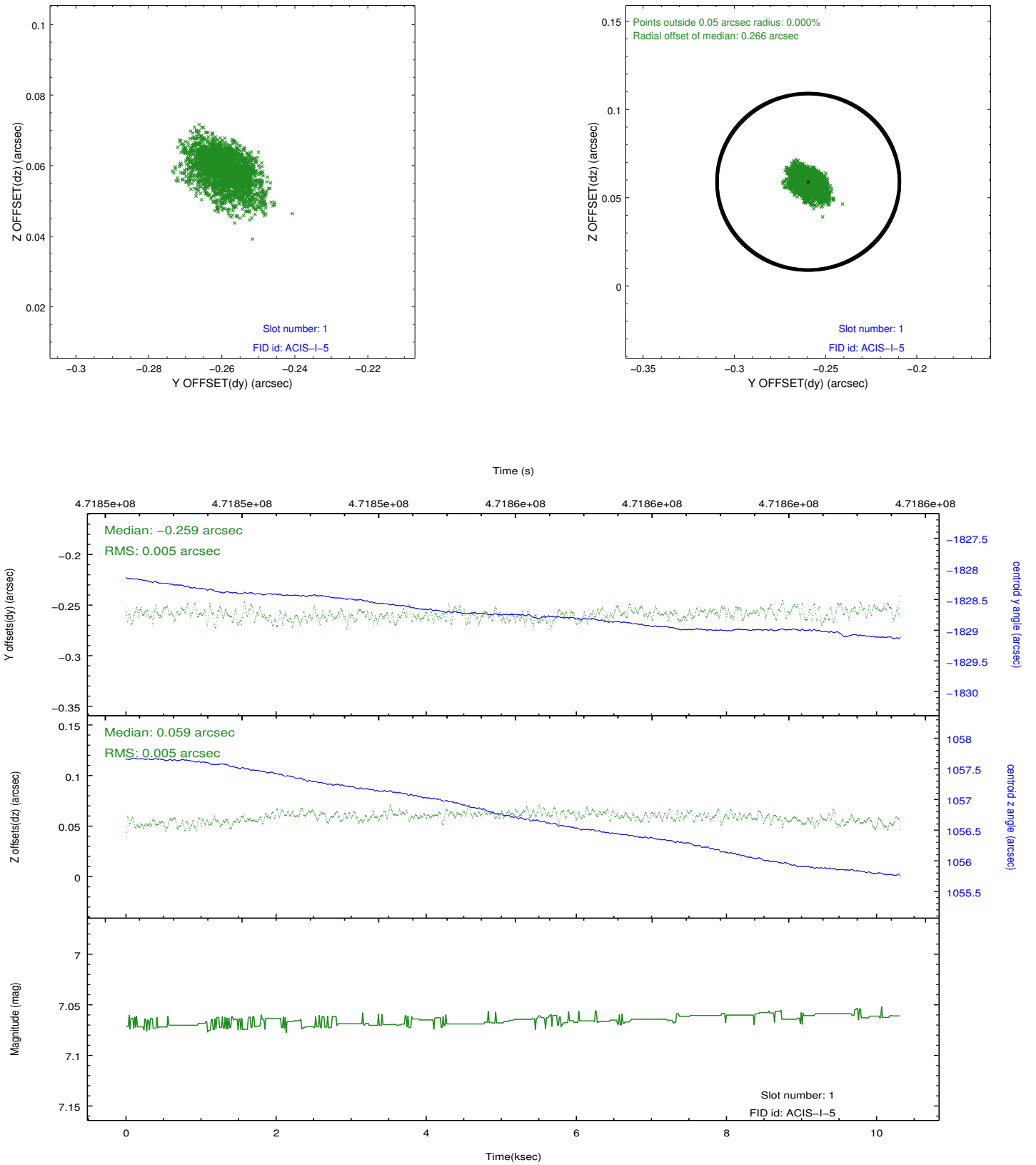


2.5 FID Slots

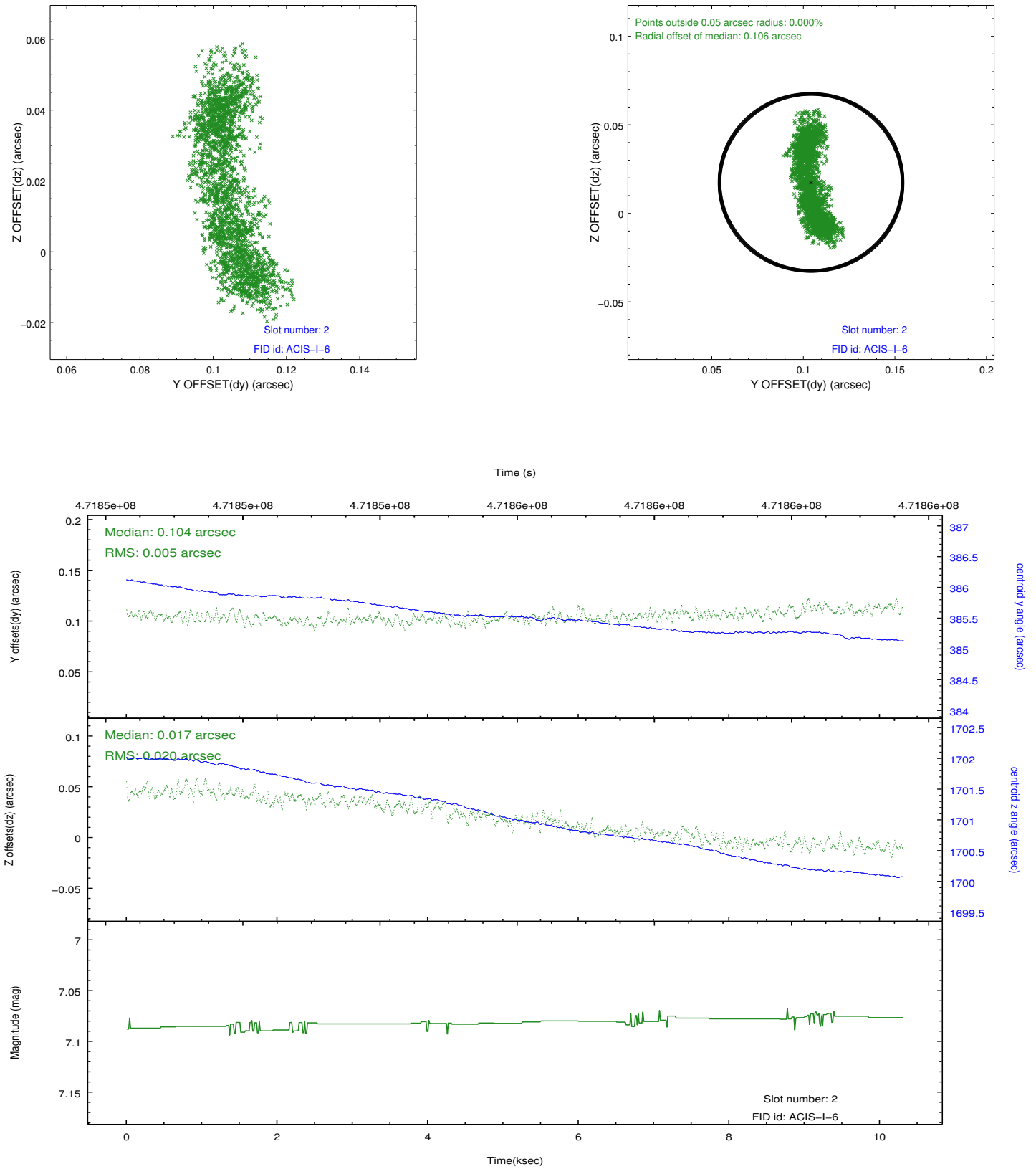
2.5.1 Slot 0



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)	2014.12.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.067875082731

A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.