

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 10027 - L2 Version 2
Chandra X-Ray Center

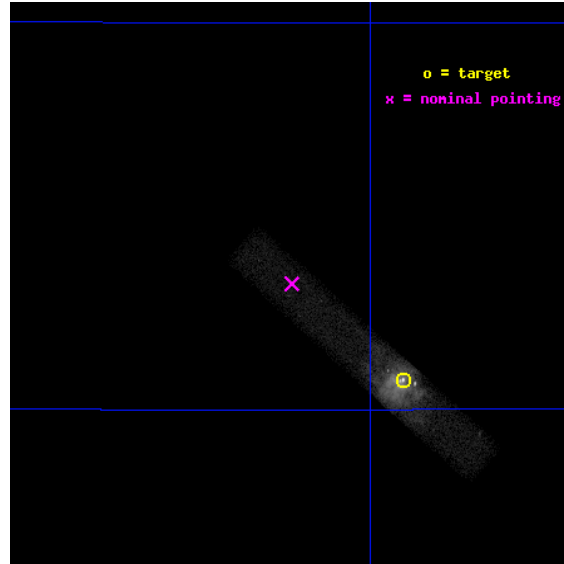
L2 Processing Date : May 22 2012

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1 Front

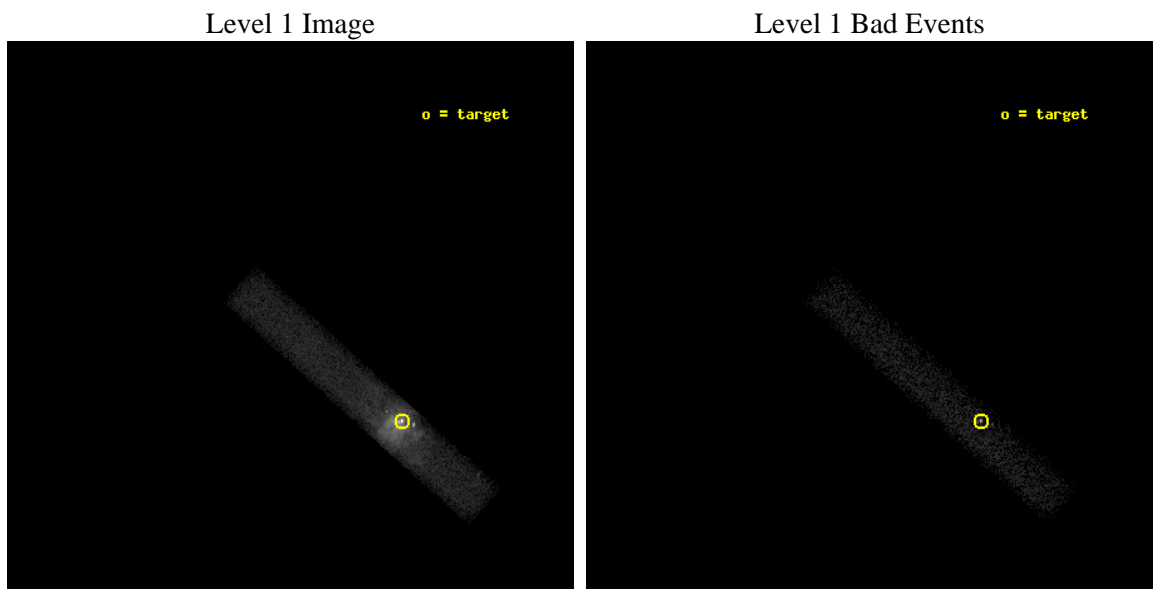
seq_num	400991	Sequence number
obs_id	10027	Observation id
title	Weighing the ULX in M82 via QPO-Spectral Correlations from Simultaneous Chandra and XMM-Newton Observations	Proposal title
observer	Prof. Hua Feng	Principal investigator
object	M82 ULX	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	148.959167	Observer's specified target RA [deg]
dec_targ	69.679722	Observer's specified target Dec [deg]
ra_nom	149.09883509822	Nominal RA [deg]
dec_nom	69.721009370938	Nominal Dec [deg]
roll_nom	41.961846051652	Nominal Roll [deg]
revision	2	Processing version of data
ontime	20154.79879868	Sum of GTIs [s]
livetime	18279.338652893	Livetime [s]
ontime7	20154.79879868	Sum of GTIs [s]
l2events	96501	Number of level 2 events



2 OBI

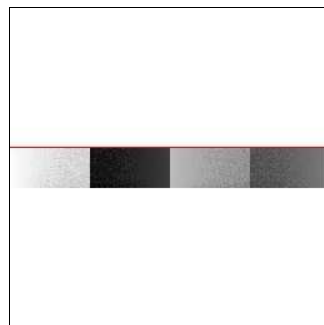
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.916000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	20154.79879868	Sum of GTIs [s]
caldsver	4.4.9	 	ontime7	20154.79879868	Sum of GTIs [s]
date	2012-05-22T10:10:16	Date and time of file creation	l1events	122909	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

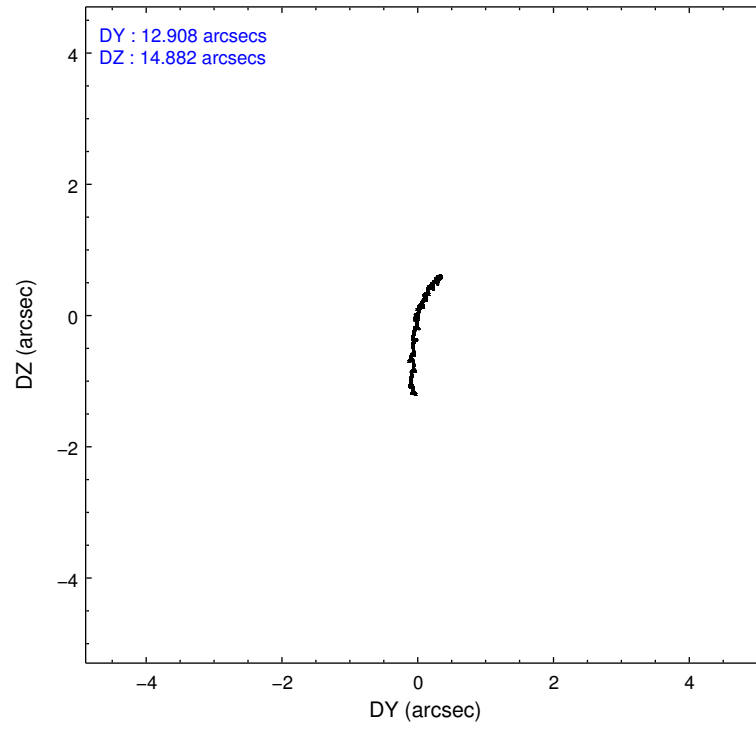
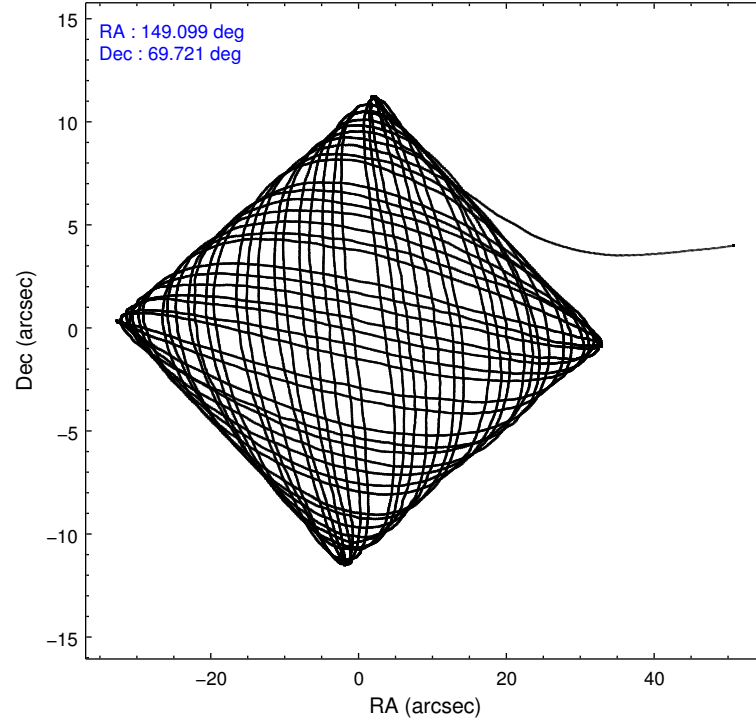
	ccd 7
level 1 events	122909
rejected events	25666
rejected %	20%

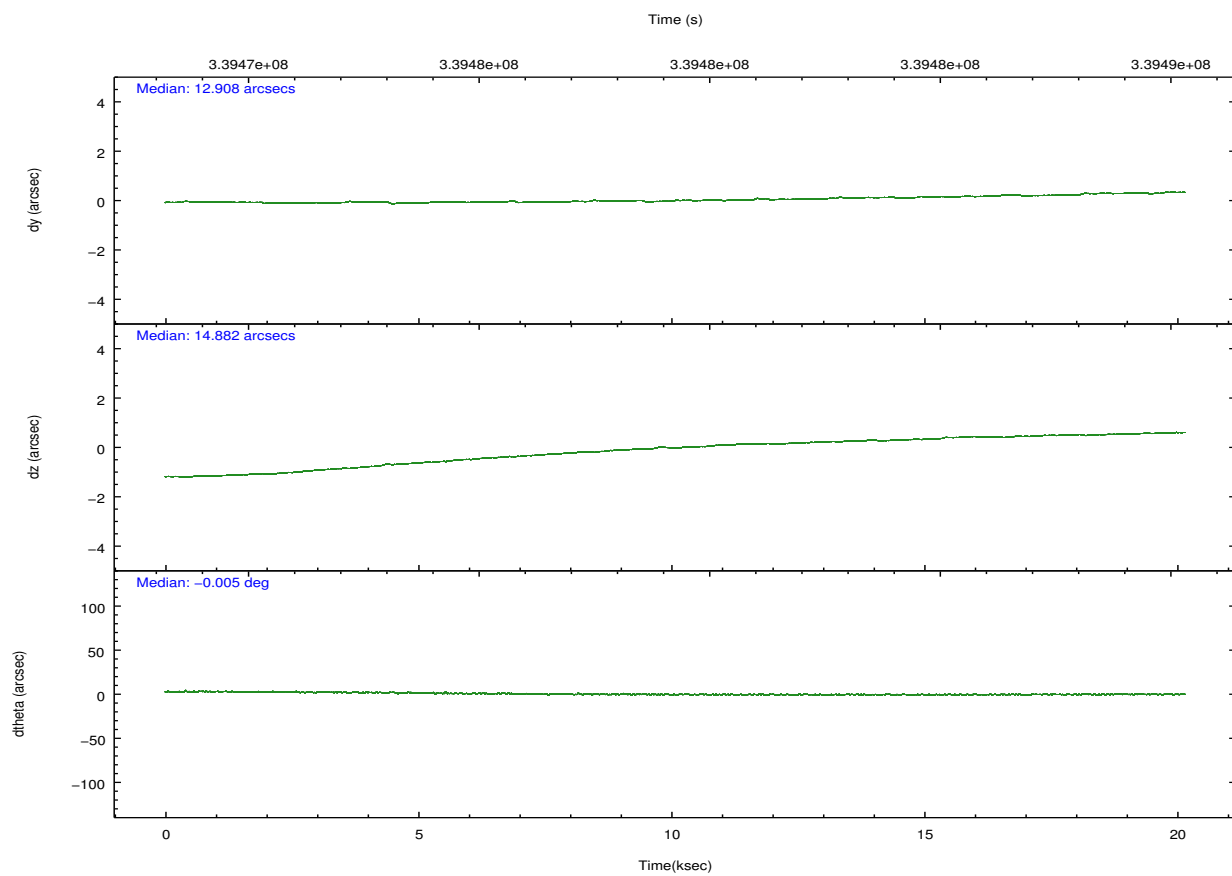
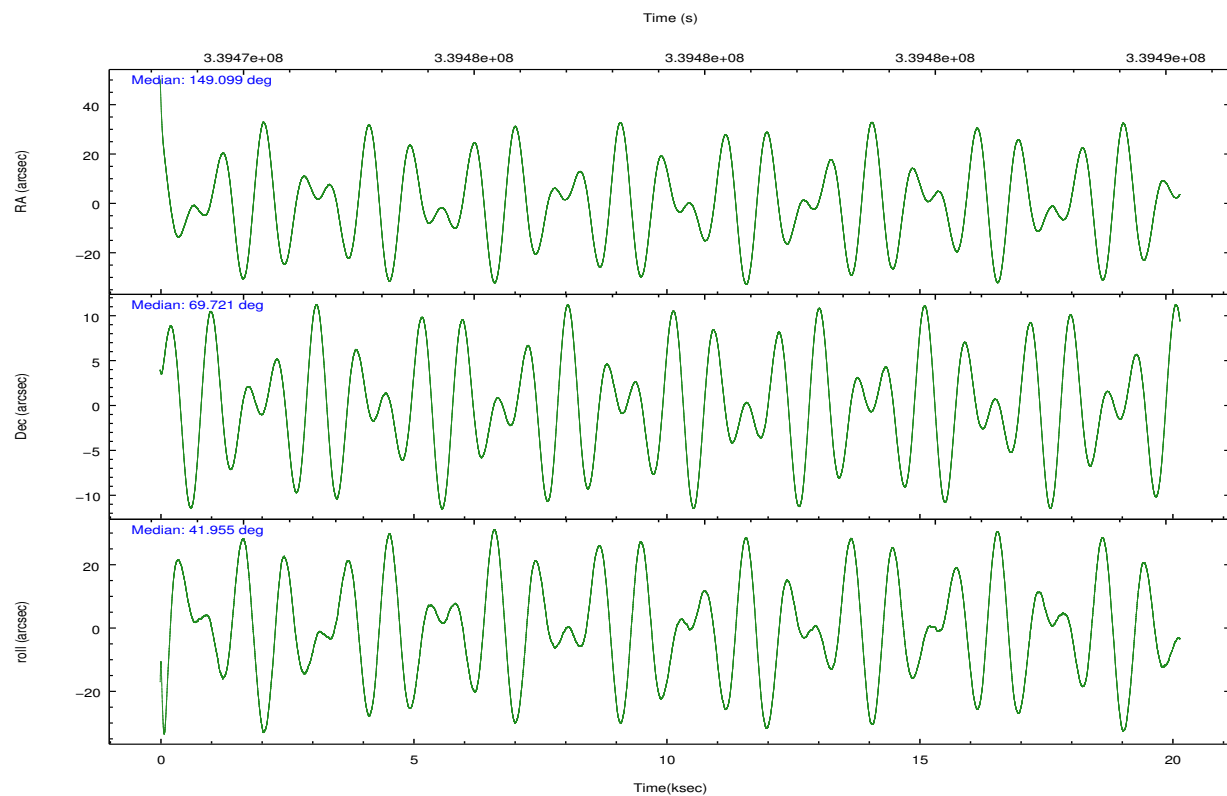
	ccd 7
grade 0 events	24196
	19%
grade 1 events	518
	0%
grade 2 events	24178
	19%
grade 3 events	11669
	9%
grade 4 events	11648
	9%
grade 5 events	5111
	4%
grade 6 events	26884
	21%
grade 7 events	18705
	15%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	149.075426	149.0988350982182	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	69.694881	69.72100937093771	Subarray start row	449	449
[deg] Pointing Roll	41.827146	41.9618460516521	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	339469322.184000	339468247.43077			
Observation start date	2008-10-04T01:00:57	2008-10-04T00:44:07			
[s] Observation end time (MET)	339489323.184000	339489554.61932			
Observation end date	2008-10-04T06:34:18	2008-10-04T06:39:14			
Read mode	TIMED	TIMED			

2.3 Aspect



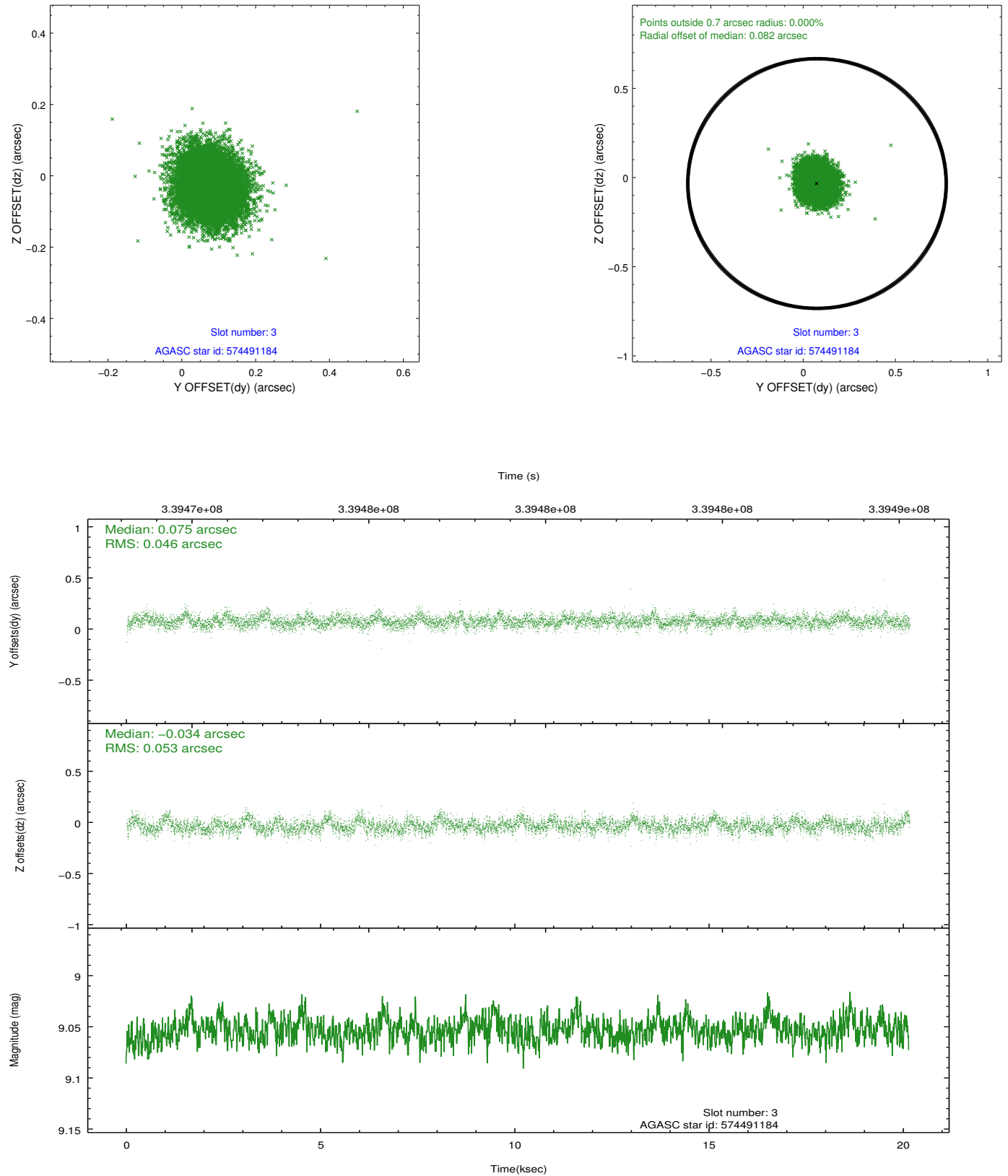


Slot Statistics

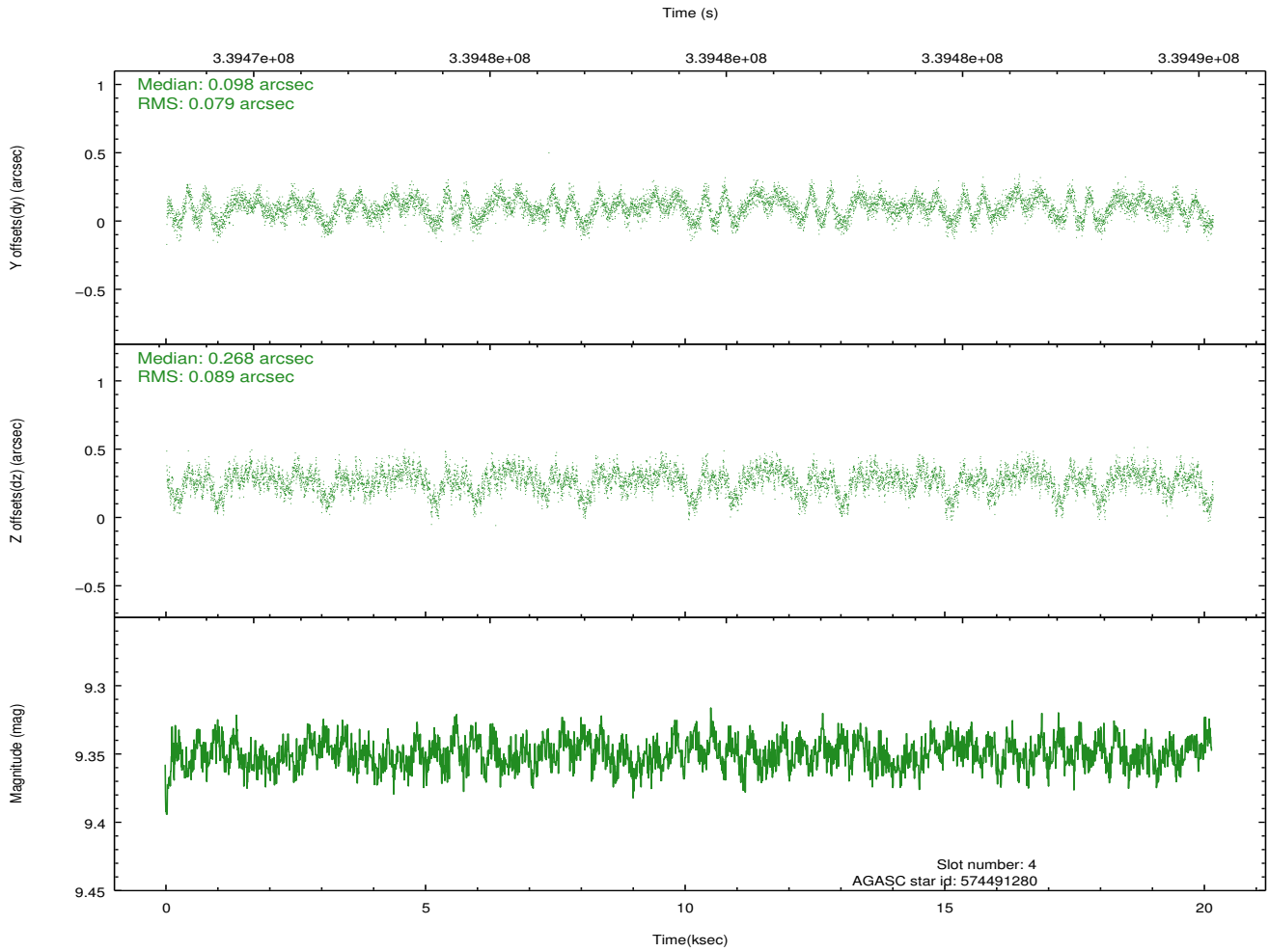
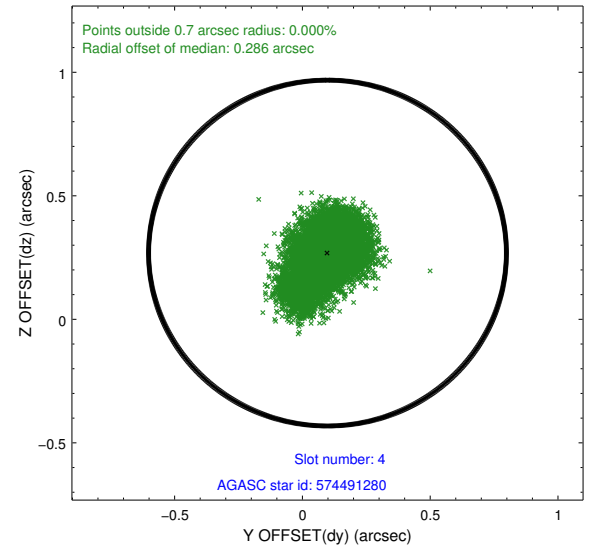
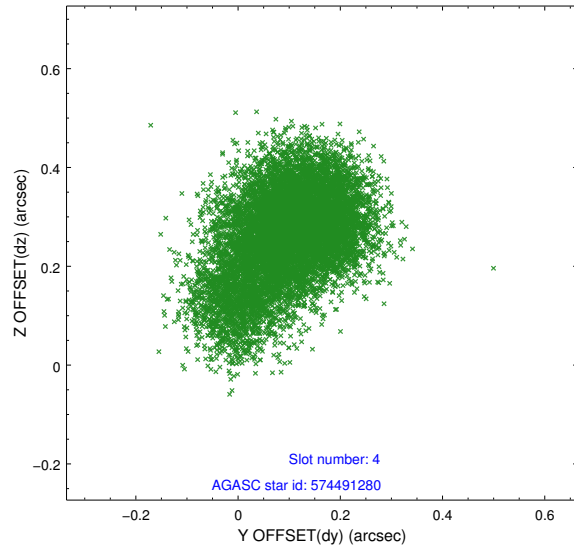
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.98	4916	-0.045	-0.020	0.014	0.028	0.000000	0.000000	-765.89	-1736.08
1	FID	ACIS-S-4	7.07	4914	0.148	0.027	0.015	0.026	0.000000	0.000000	2147.47	172.29
2	FID	ACIS-S-5	7.10	4916	-0.137	0.001	0.014	0.024	0.000000	0.000000	-1818.61	166.10
3	GUIDE	574491184	9.05	9824	0.075	-0.034	0.075	0.121	148.582453	69.768699	-278.20	609.06
4	GUIDE	574491280	9.35	9814	0.098	0.268	0.125	0.211	148.611567	69.450135	-1023.95	-263.74
5	GUIDE	574491872	9.25	9828	0.097	-0.187	0.082	0.133	147.207613	69.765453	-1541.73	1764.20
6	GUIDE	574886464	9.77	9825	-0.108	-0.048	0.170	0.257	149.898674	70.203982	1974.55	701.78
7	GUIDE	574886496	8.49	9826	-0.158	-0.002	0.093	0.144	148.945563	70.041136	712.71	1035.73

2.4 Star Slots

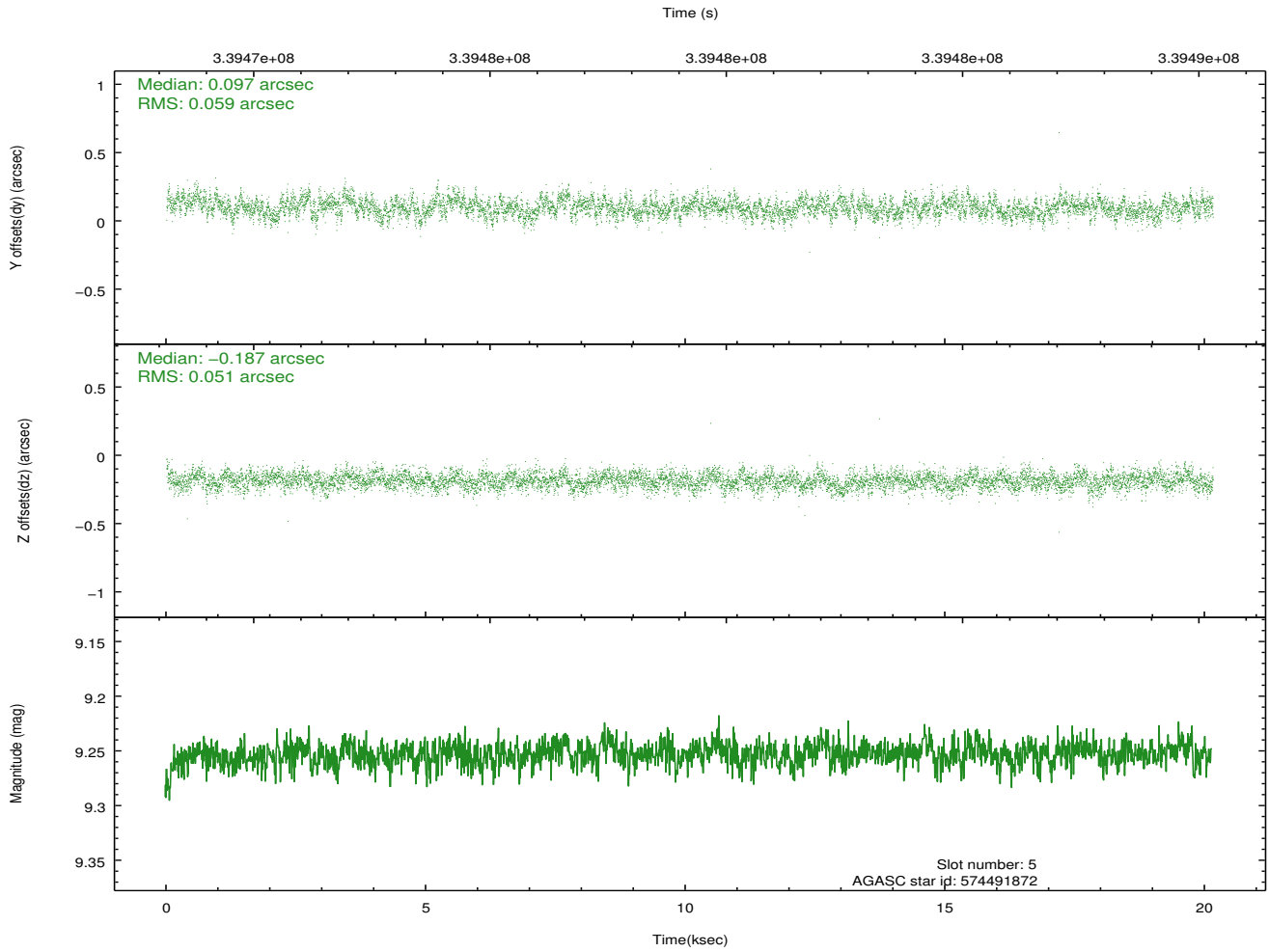
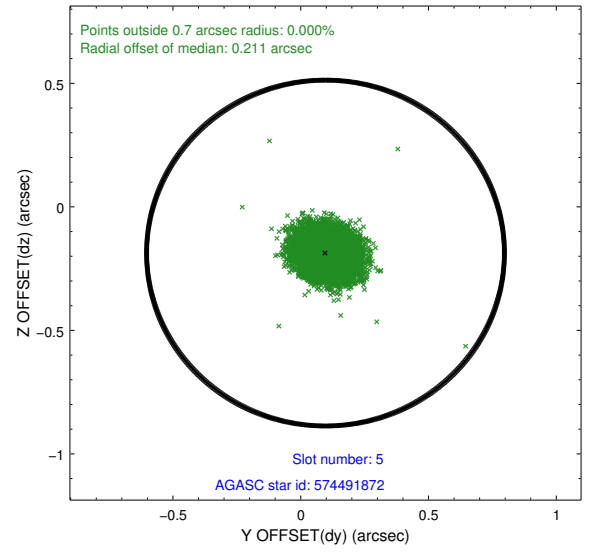
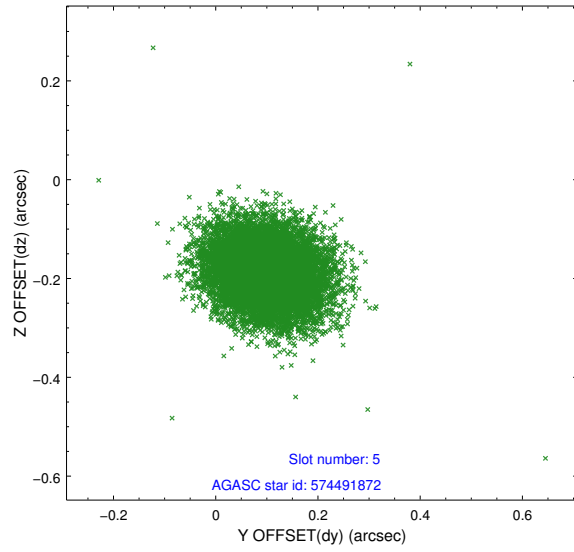
2.4.1 Slot 3



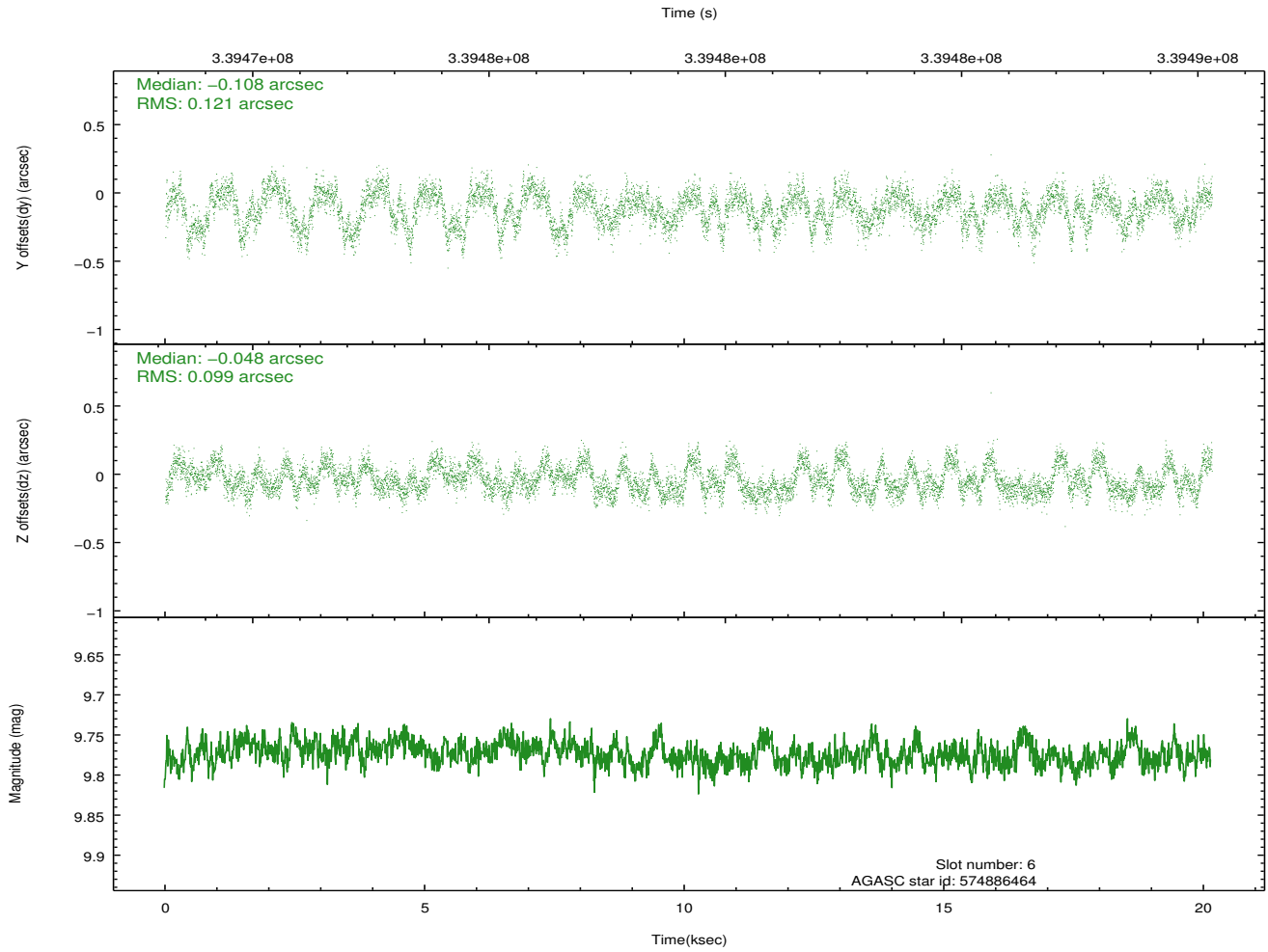
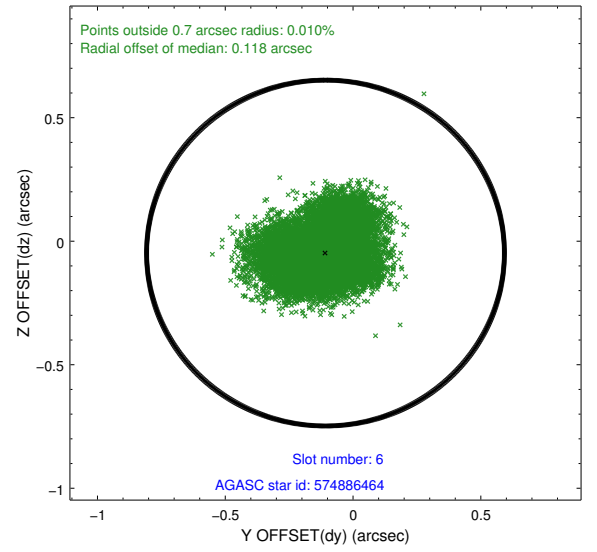
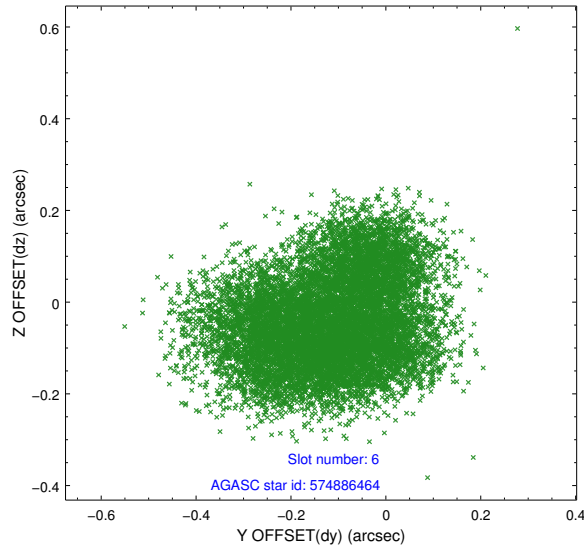
2.4.2 Slot 4



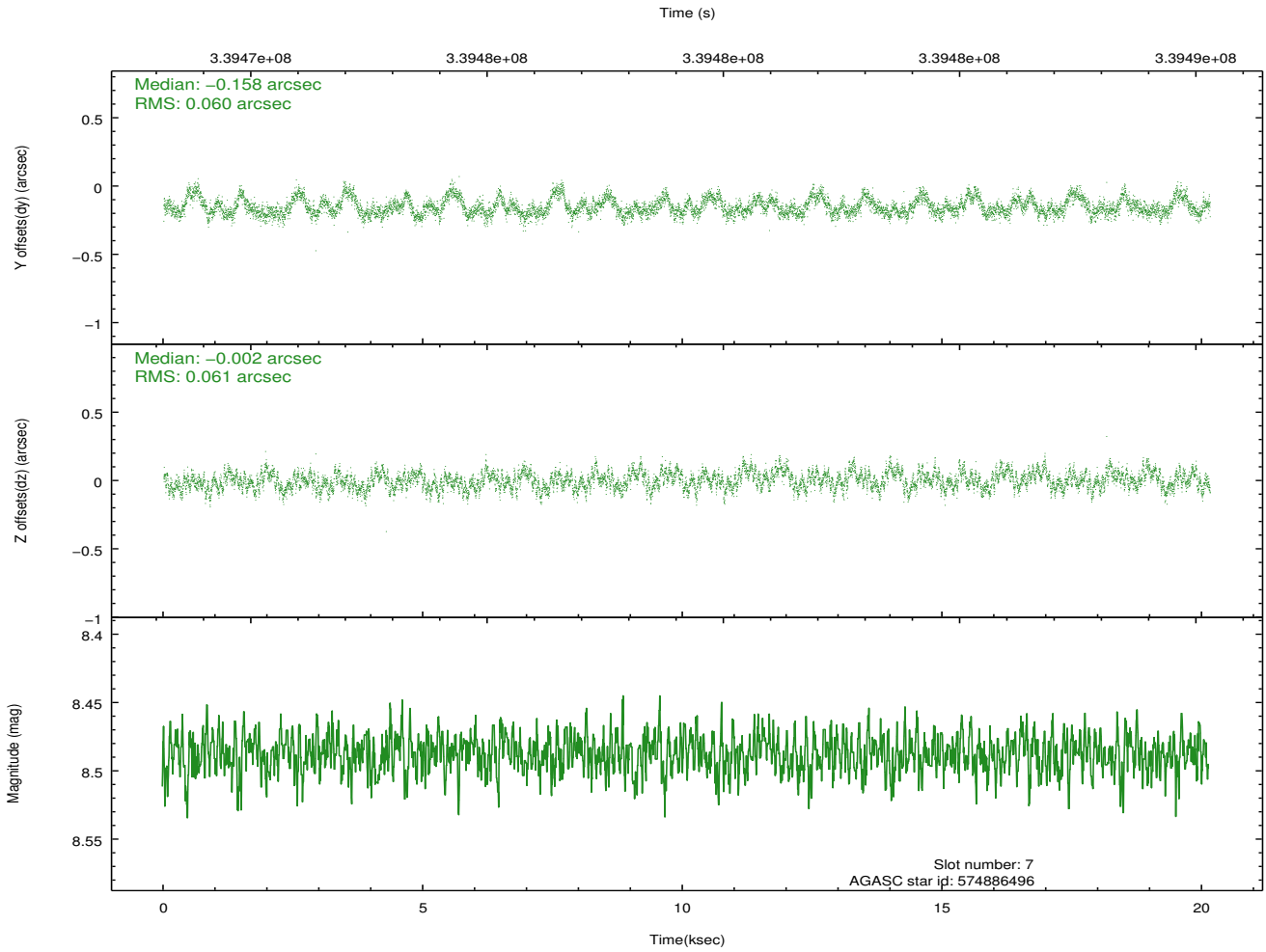
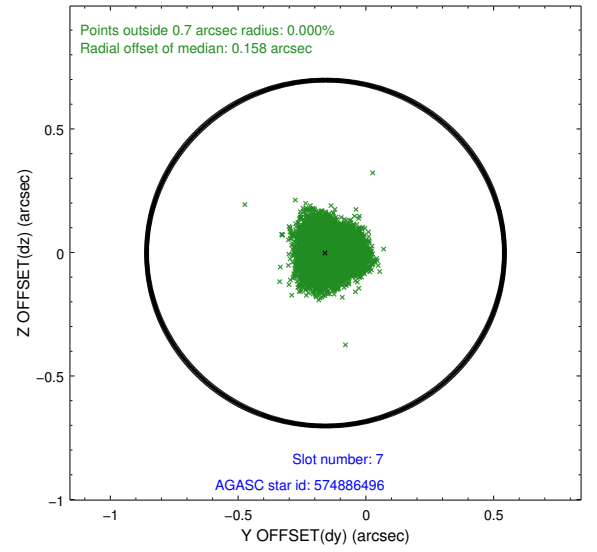
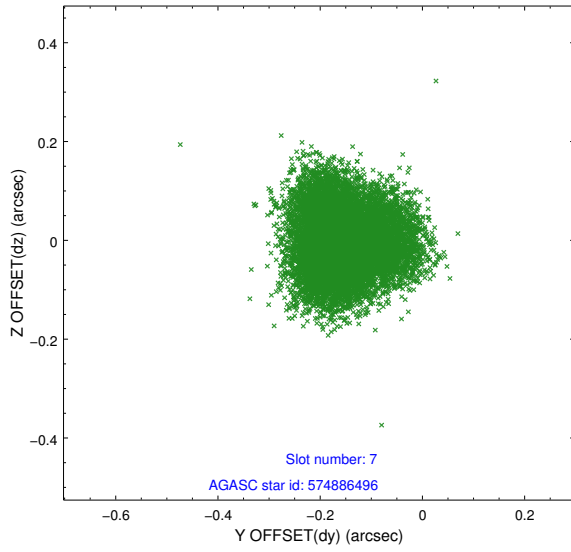
2.4.3 Slot 5



2.4.4 Slot 6

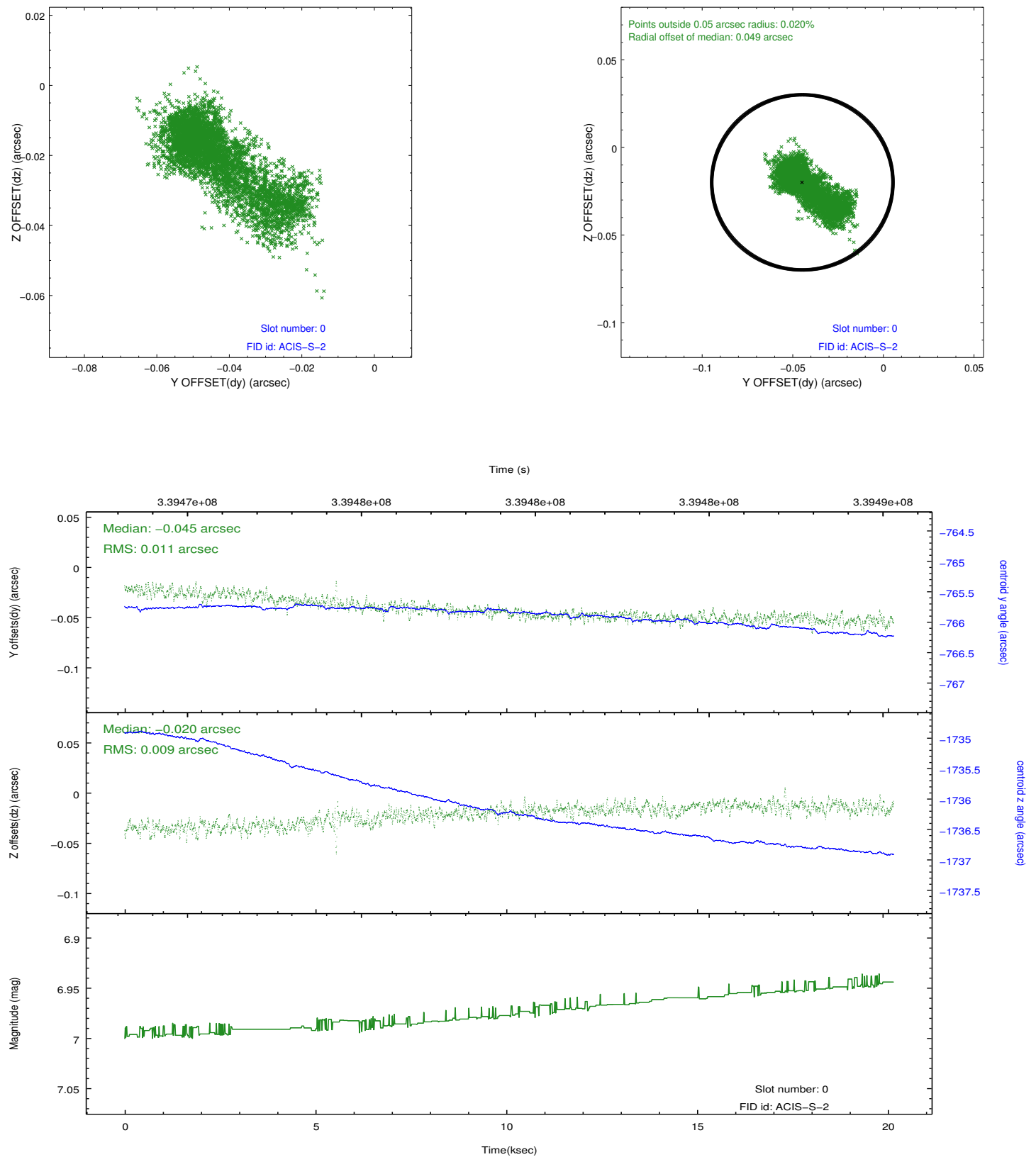


2.4.5 Slot 7

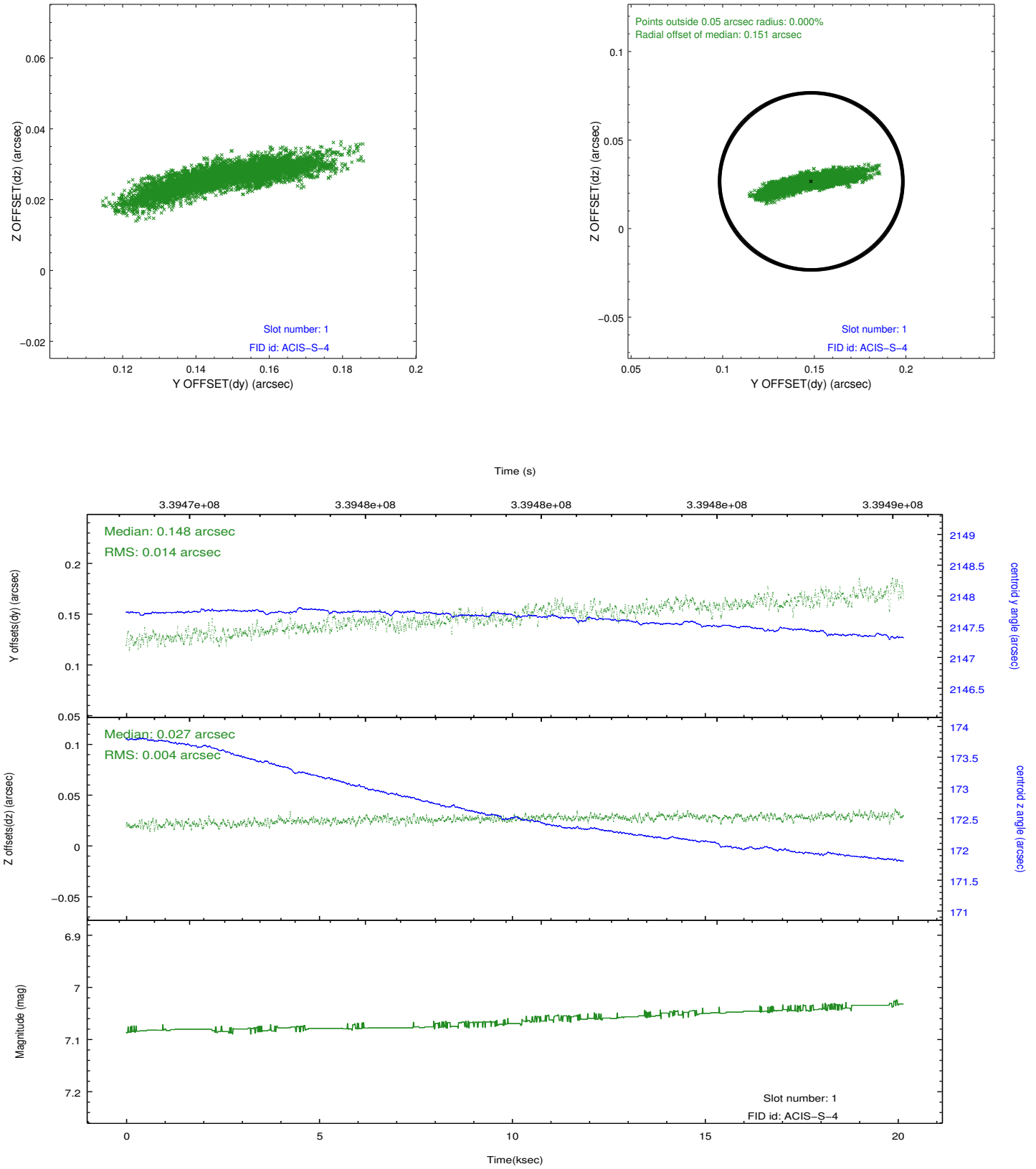


2.5 FID Slots

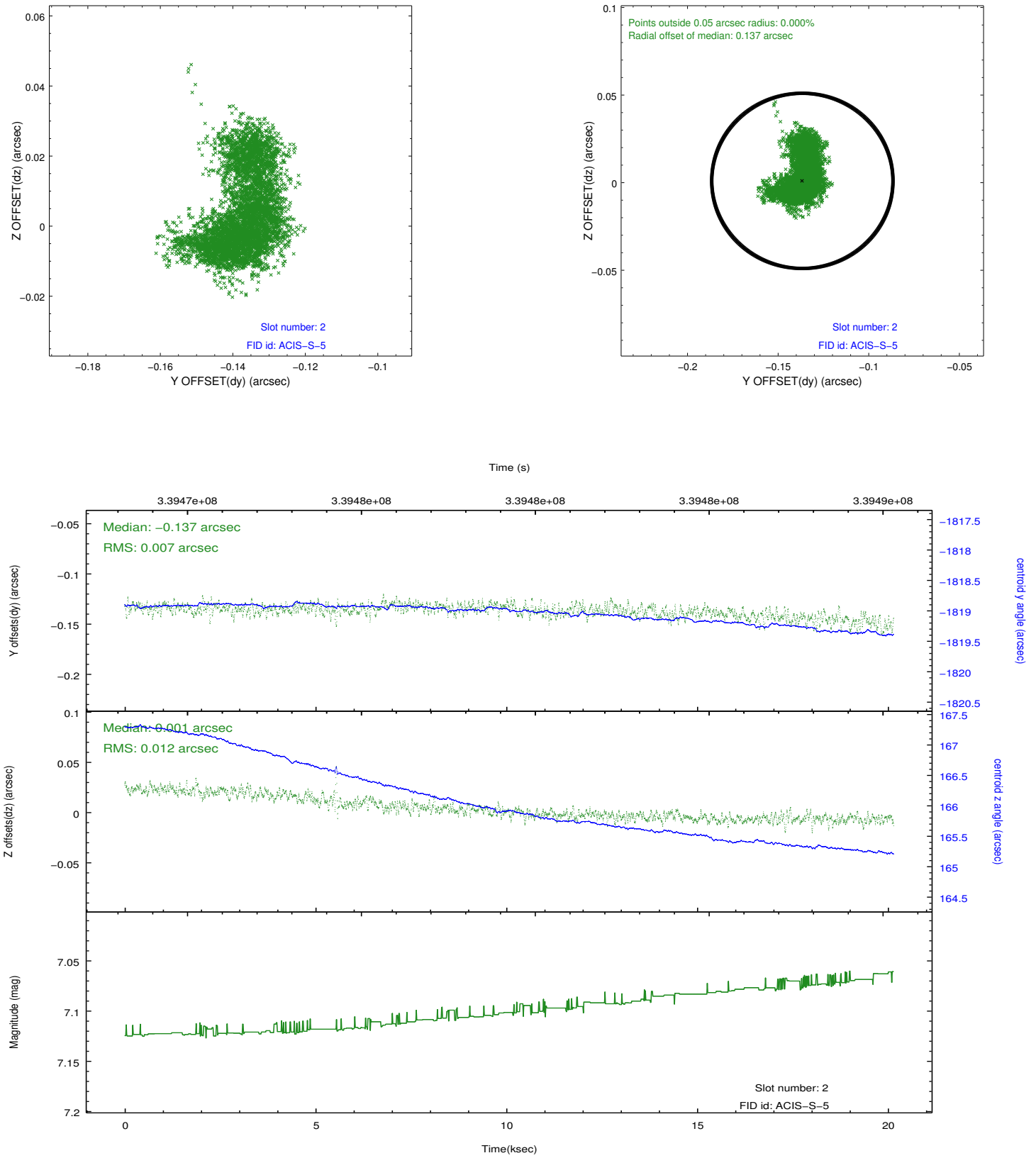
2.5.1 Slot 0



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)	2012.05.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.1547987

A.2 Comments

Coordinated with XMM. Deliberately off-axis.