

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 21419 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : Jan 24 2019

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1 Front

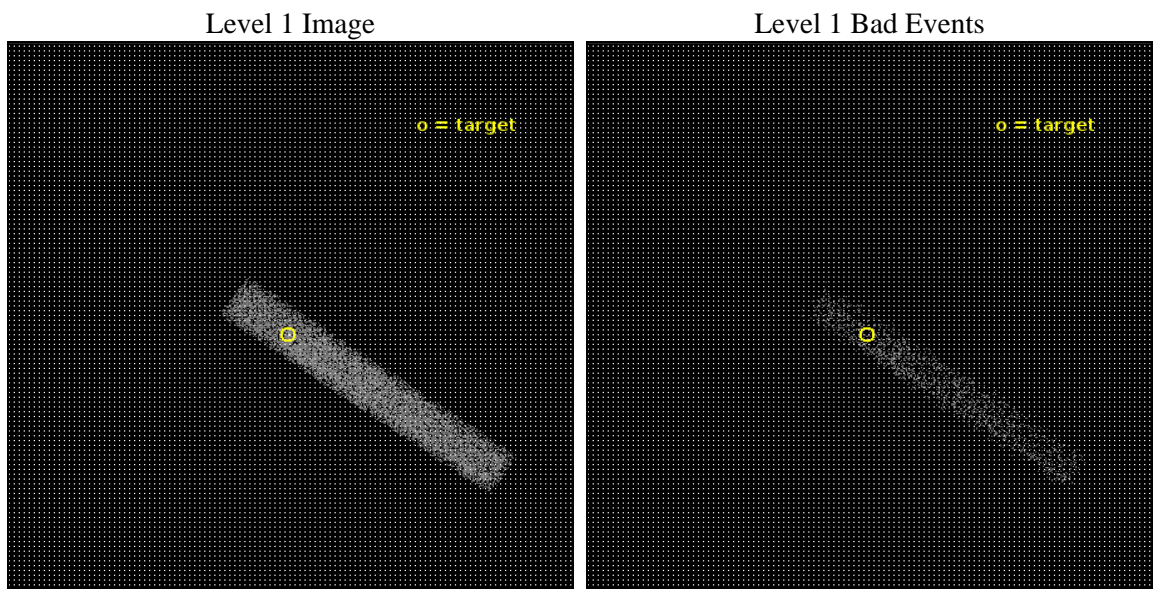
seq_num	703716	Sequence number
obs_id	21419	Observation id
title	THE TORUS AND THE HOST: Extended Hard Emission in Compton Thick AGN with NuSTAR Spectra	Proposal title
observer	Dr. Martin Elvis	Principal investigator
object	NGC3281	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	157.967083	Observer's specified target RA [deg]
dec_targ	-34.853611	Observer's specified target Dec [deg]
ra_nom	157.96639571642	Nominal RA [deg]
dec_nom	-34.849773496128	Nominal Dec [deg]
roll_nom	34.65290454335	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10068.399399757	Sum of GTIs [s]
livetime	9131.5068018841	Livetime [s]
ontime7	10068.399399757	Sum of GTIs [s]
l2events	6788	Number of level 2 events



2 OBI

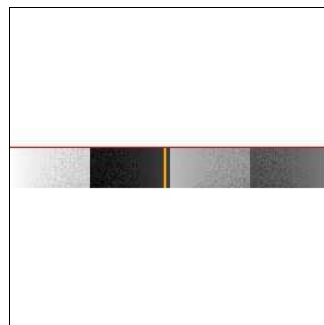
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	10068.399399757	Sum of GTIs [s]
caldsver	4.8.2	 	ontime7	10068.399399757	Sum of GTIs [s]
date	2019-01-24T18:52:55	Date and time of file creation	l1events	14024	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

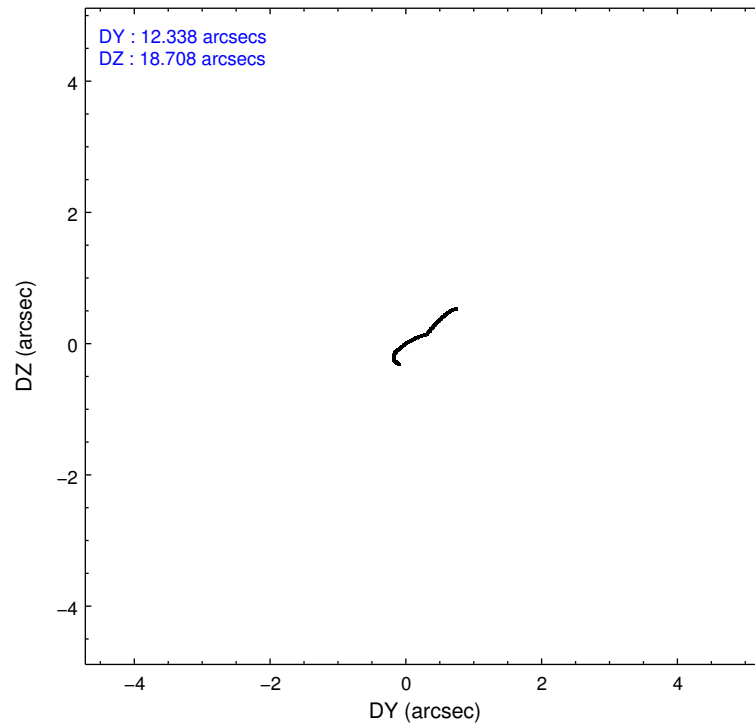
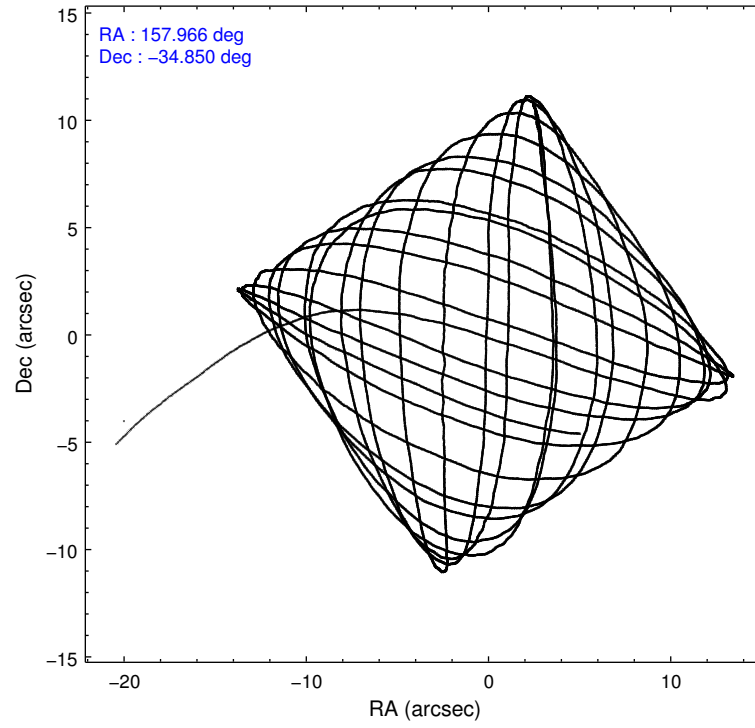
	ccd 7
level 1 events	14024
rejected events	6920
rejected %	49%

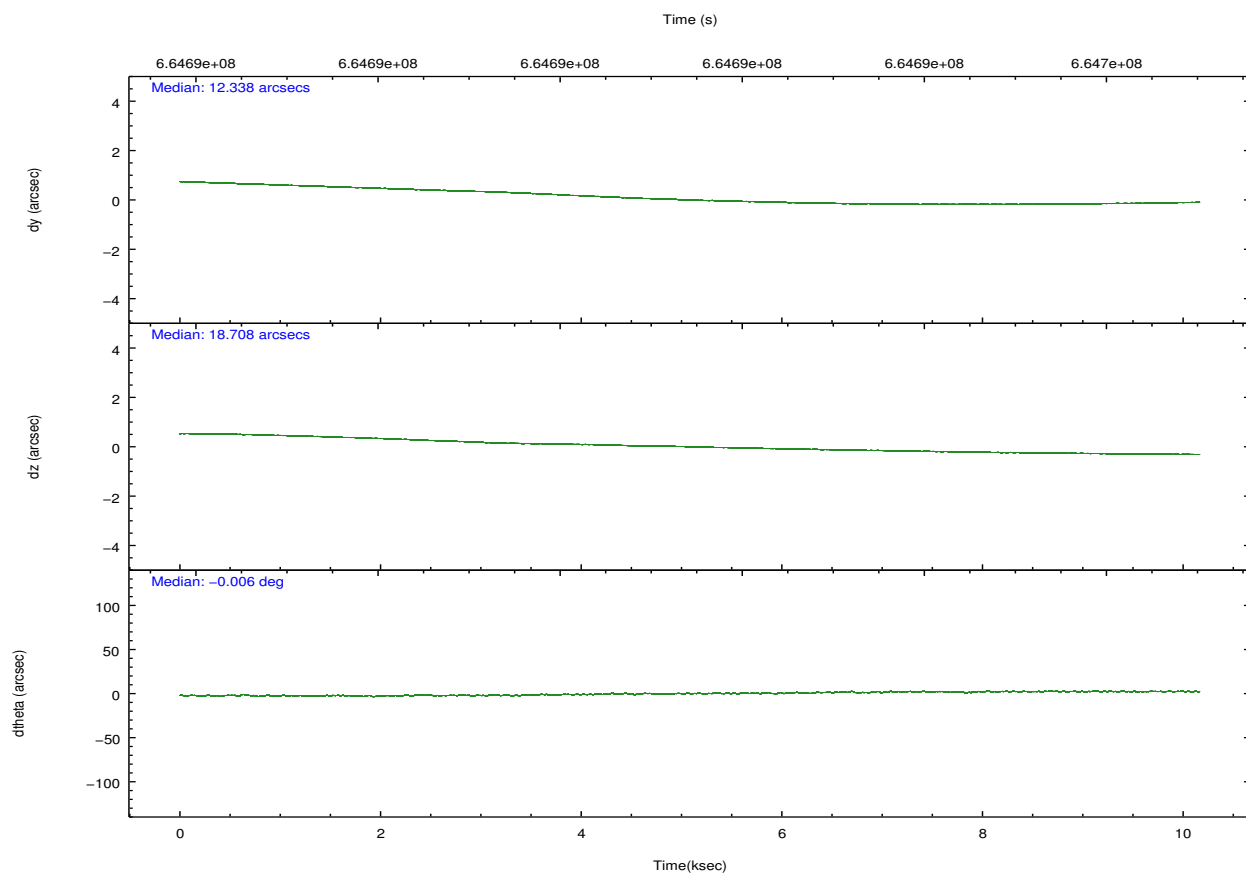
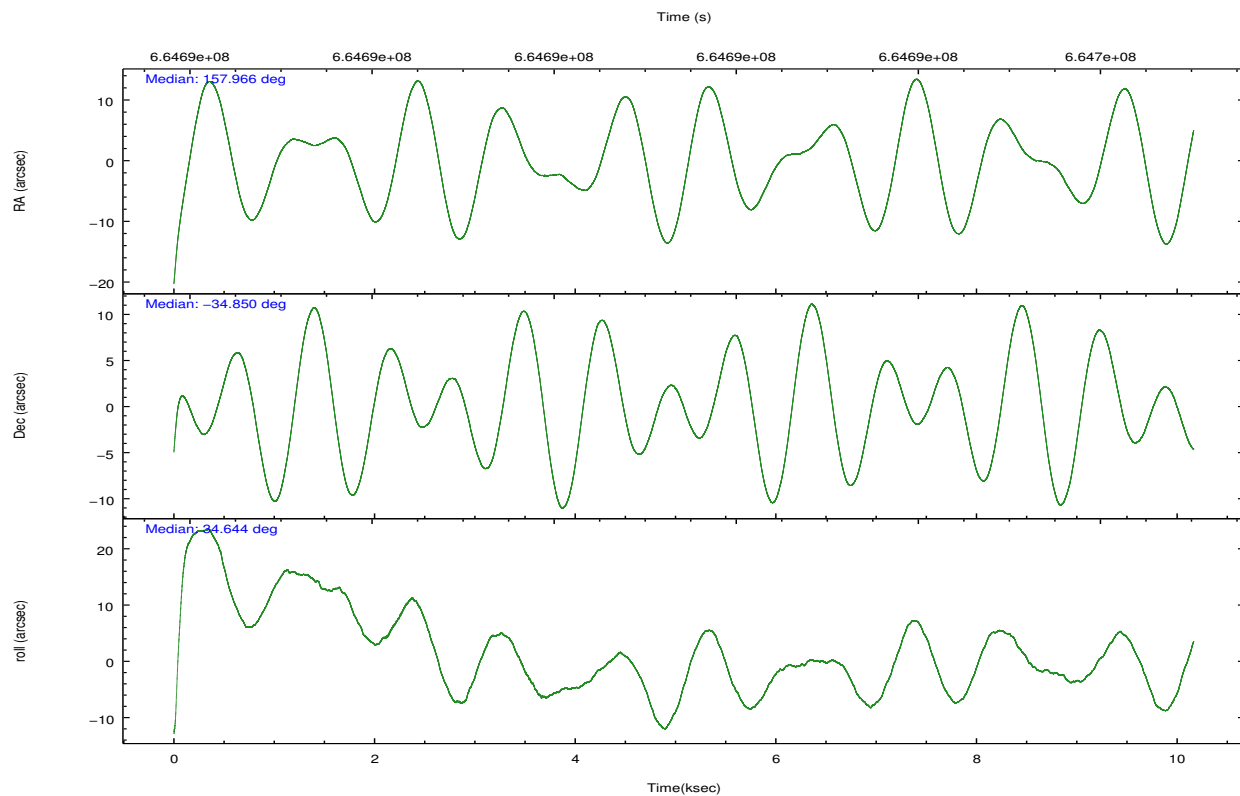
	ccd 7
grade 0 events	821
	5%
grade 1 events	19
	0%
grade 2 events	1365
	9%
grade 3 events	915
	6%
grade 4 events	866
	6%
grade 5 events	1330
	9%
grade 6 events	3144
	22%
grade 7 events	5564
	39%

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	157.952507	157.9663957164151	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-34.874729	-34.84977349612762	Subarray start row	449	449
[deg] Pointing Roll	34.488369	34.65290454335041	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	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	664686529.184000	664685615.91892			
Observation start date	2019-01-24T03:07:40	2019-01-24T02:53:35			
[s] Observation end time (MET)	664696529.184000	664697354.73212			
Observation end date	2019-01-24T05:54:20	2019-01-24T06:09:14			
Read mode	TIMED	TIMED			

2.3 Aspect



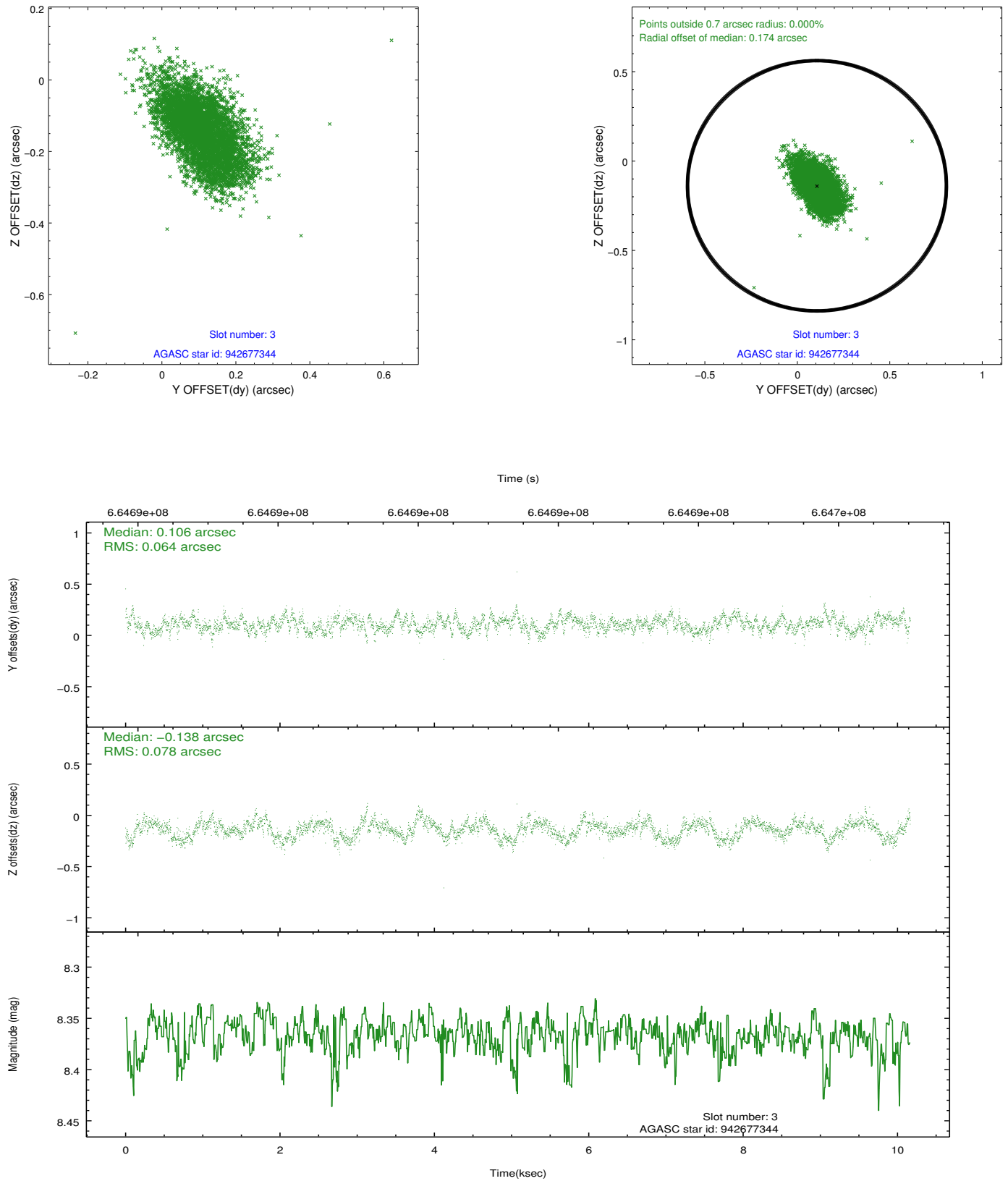


Slot Statistics

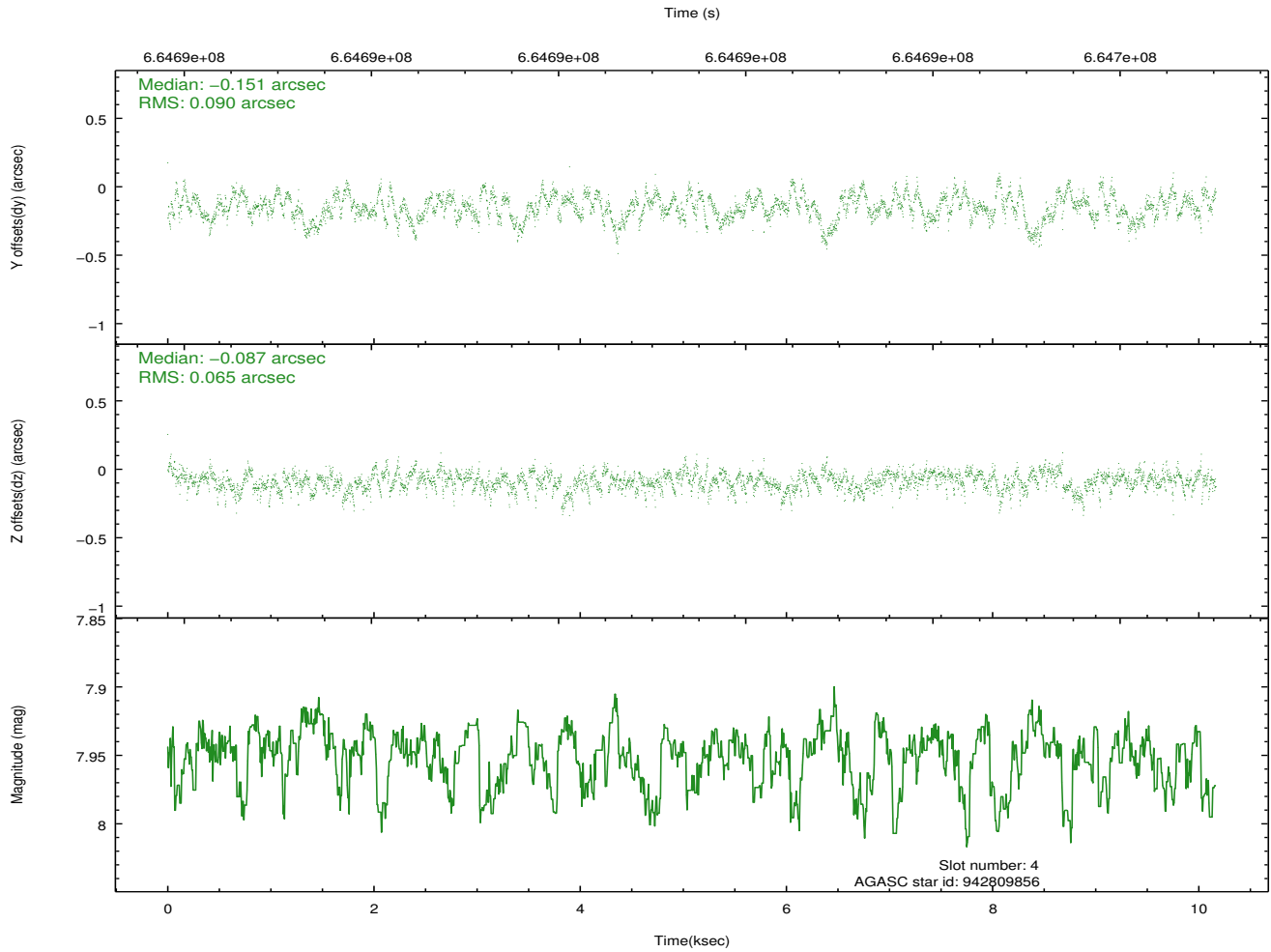
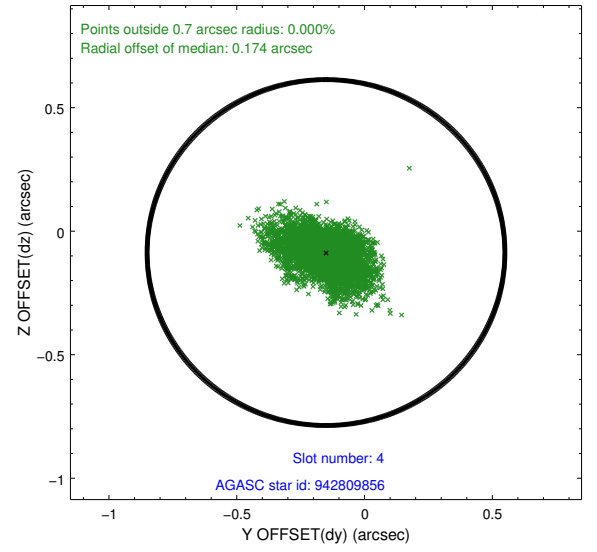
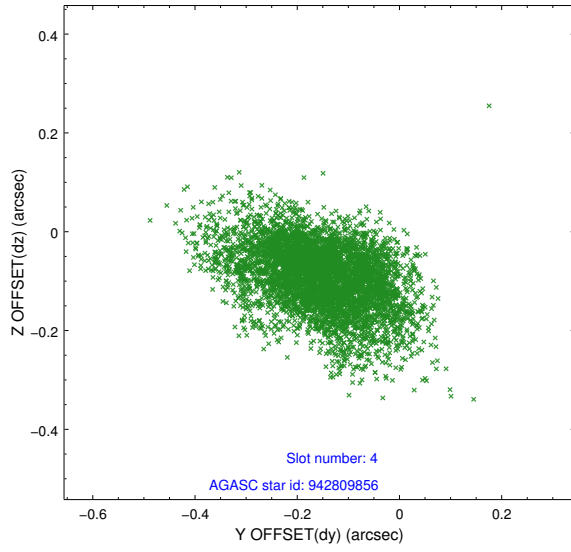
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.05	2480	1.000	-0.256	-0.174	0.019	0.027	0.000000	0.000000	-765.55	-1740
1	FID		ACIS-S-4	7.18	2480	1.000	0.689	0.170	0.020	0.032	0.000000	0.000000	2148.36	167
2	FID		ACIS-S-5	7.16	2479	1.000	-0.466	0.013	0.017	0.023	0.000000	0.000000	-1818.01	161
3	GUIDE	used	942677344	8.37	4959	1.000	0.106	-0.138	0.105	0.177	157.329823	-35.022569	-1817.36	596
4	GUIDE	used	942809856	7.95	4960	1.000	-0.151	-0.087	0.114	0.202	158.721337	-35.085088	1433.02	-1912
5	GUIDE	used	942811440	7.09	4958	1.000	0.080	0.010	0.105	0.166	157.875674	-35.128343	-703.78	-625
6	GUIDE	used	942813200	8.08	4958	1.000	-0.048	0.055	0.114	0.172	157.742104	-35.047777	-863.90	-162
7	GUIDE	used	942816240	8.46	4959	1.000	0.020	0.182	0.130	0.219	158.732900	-35.270091	1080.39	-2478

2.4 Star Slots

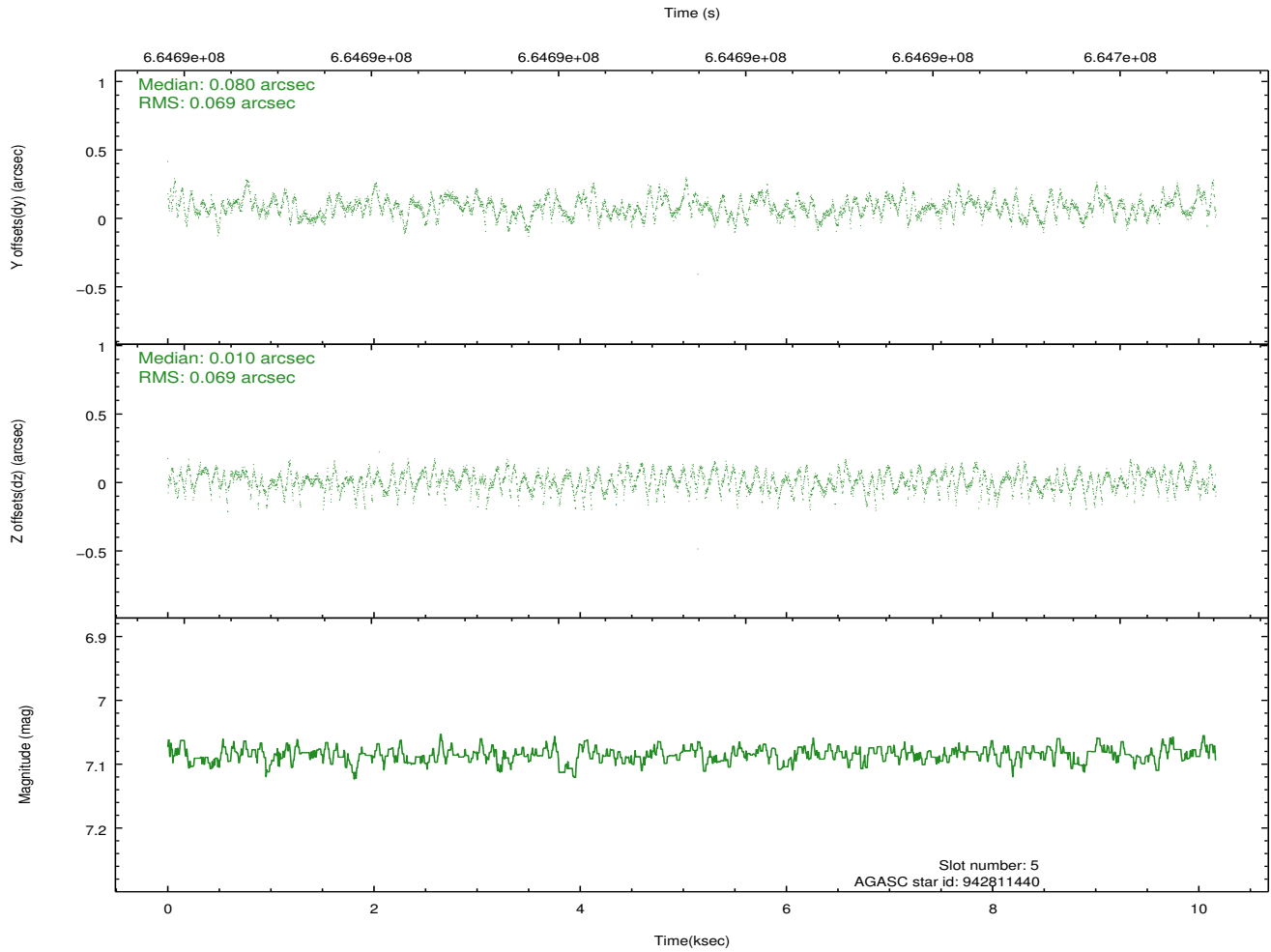
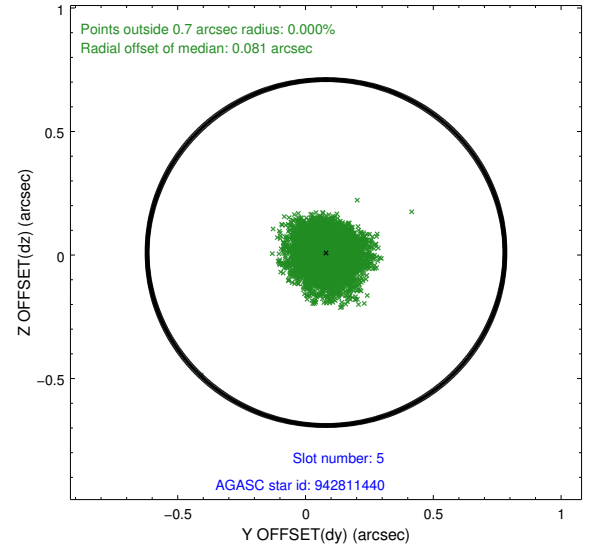
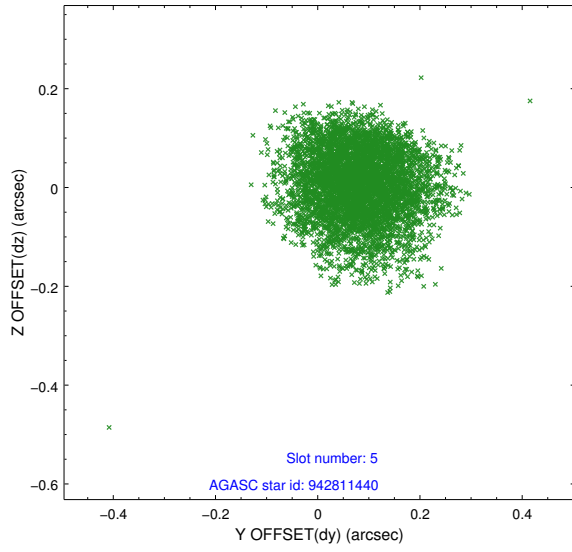
2.4.1 Slot 3



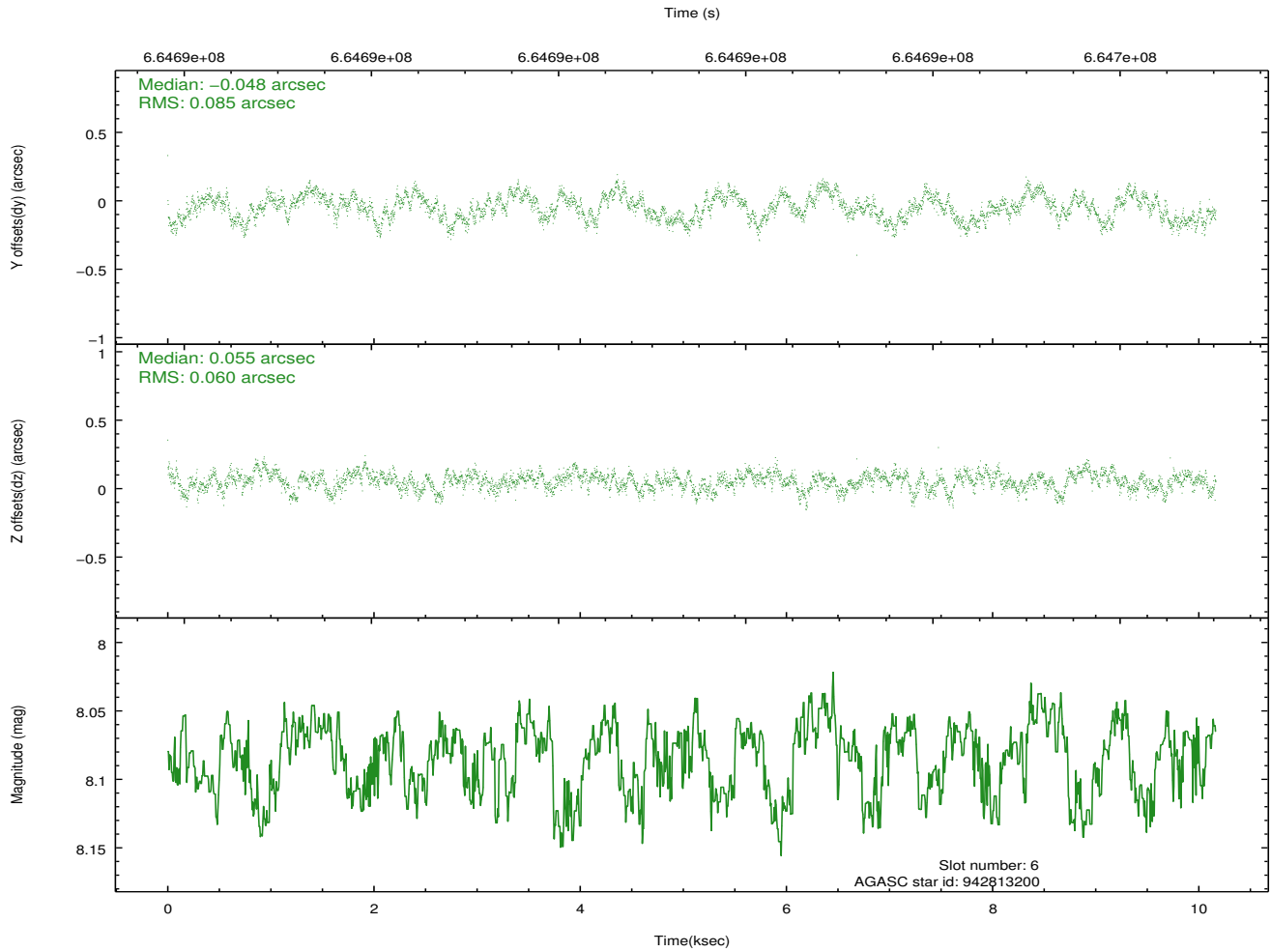
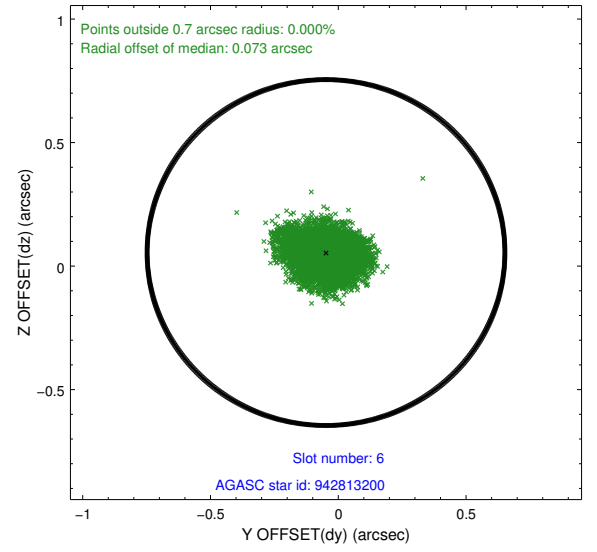
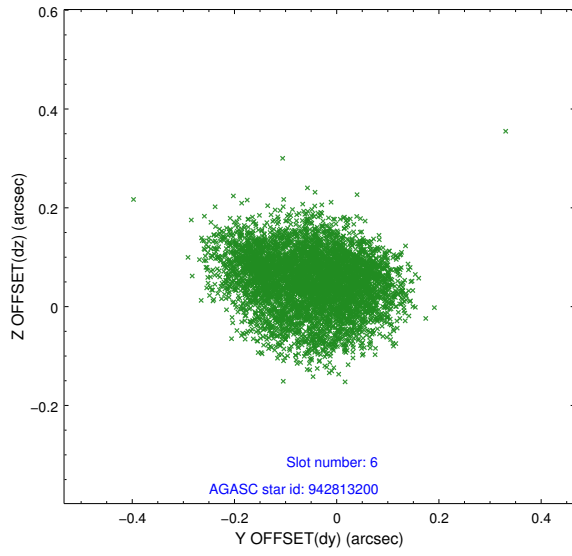
2.4.2 Slot 4



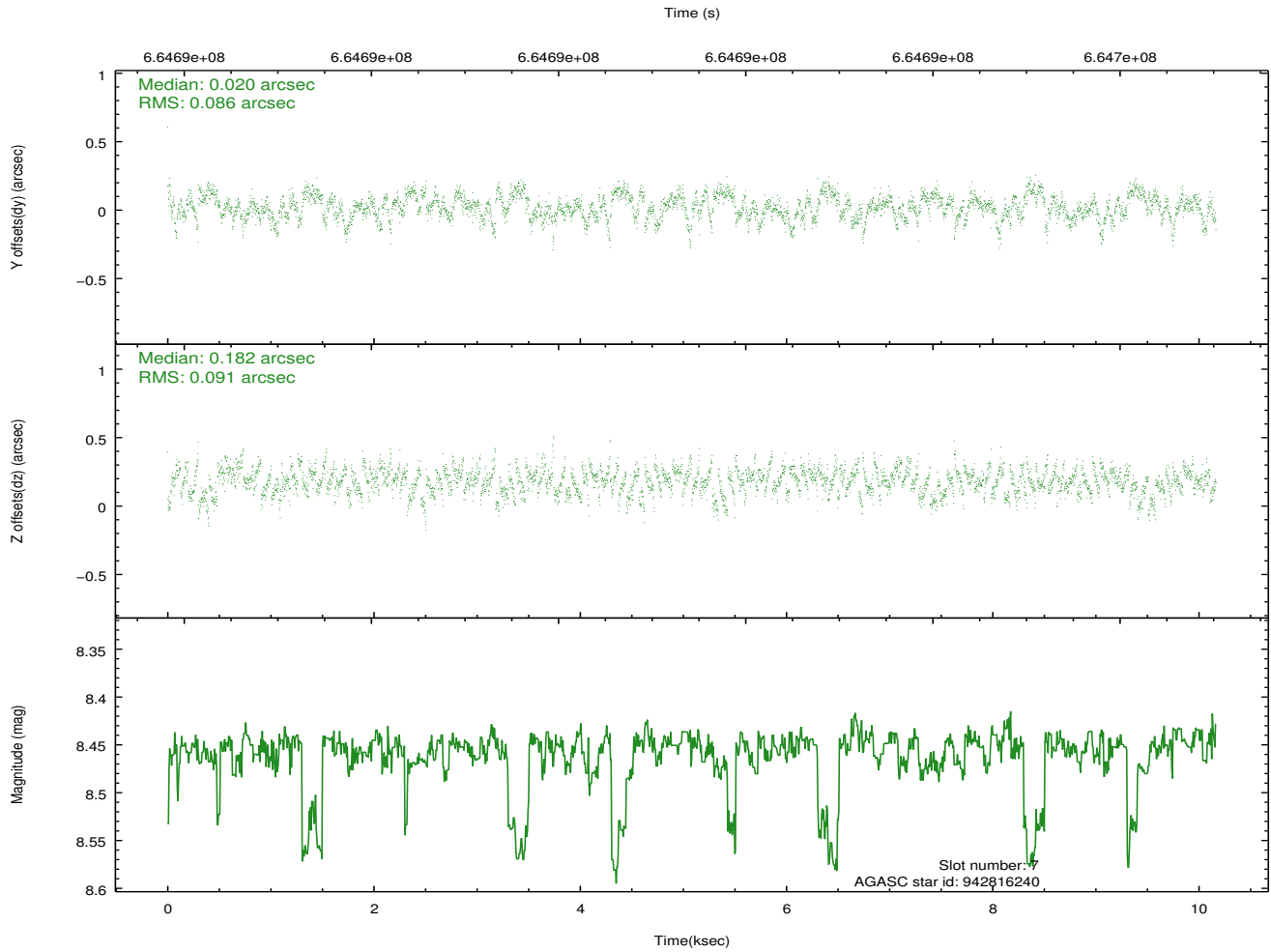
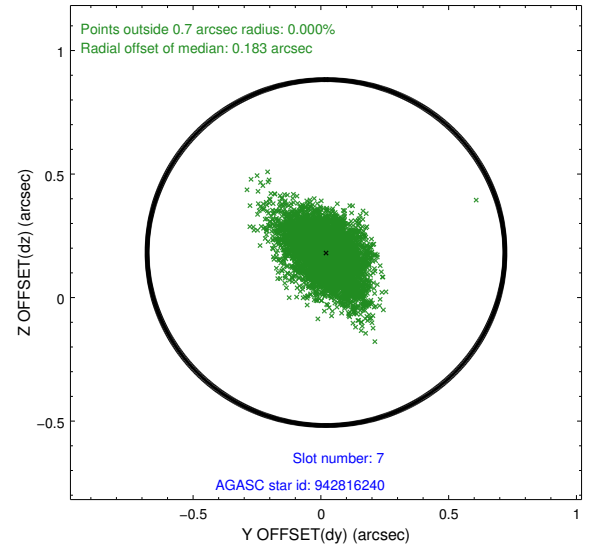
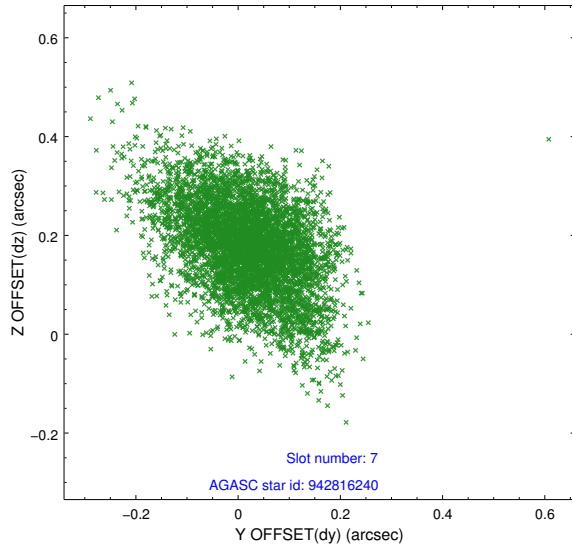
2.4.3 Slot 5



2.4.4 Slot 6

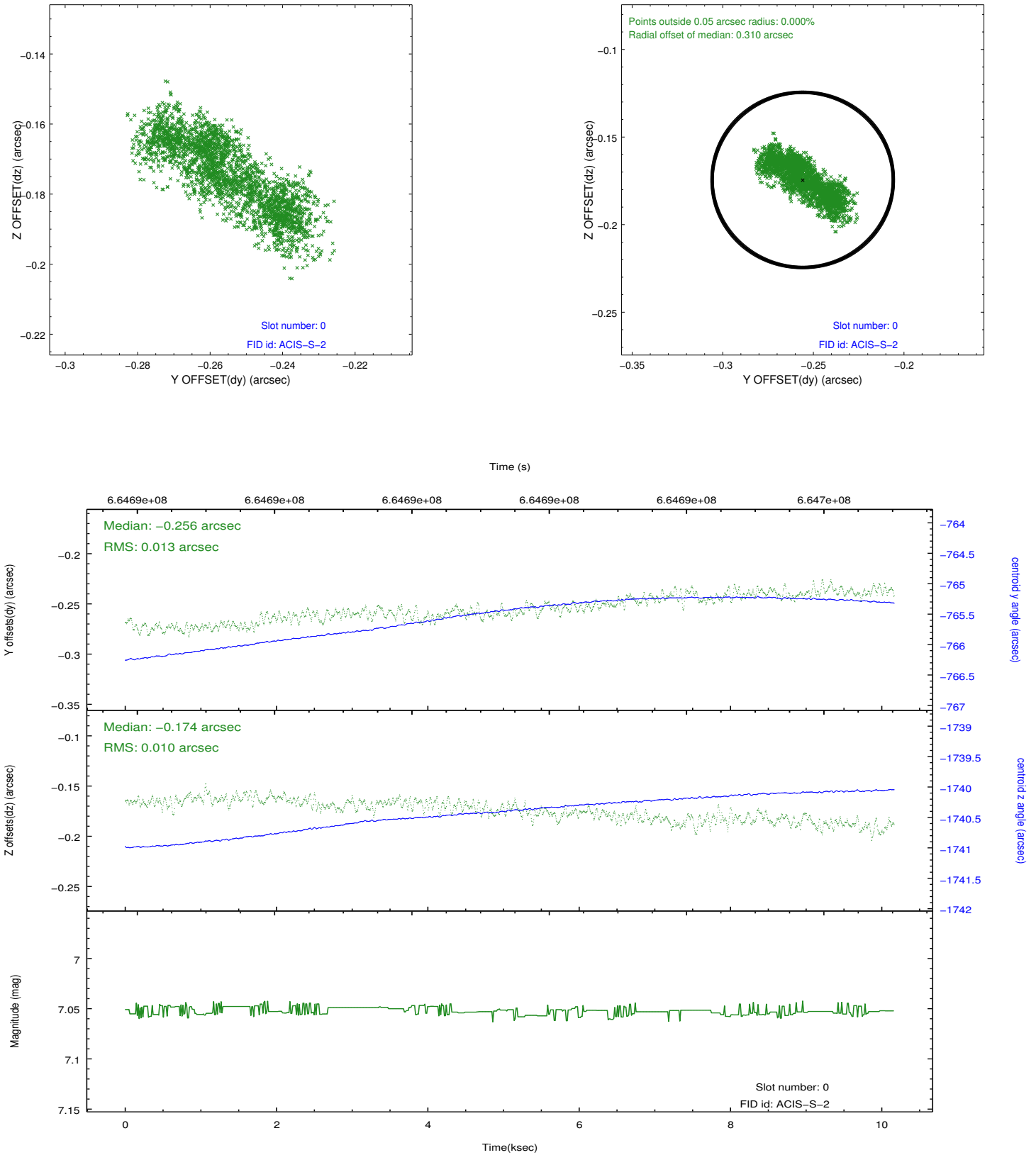


2.4.5 Slot 7

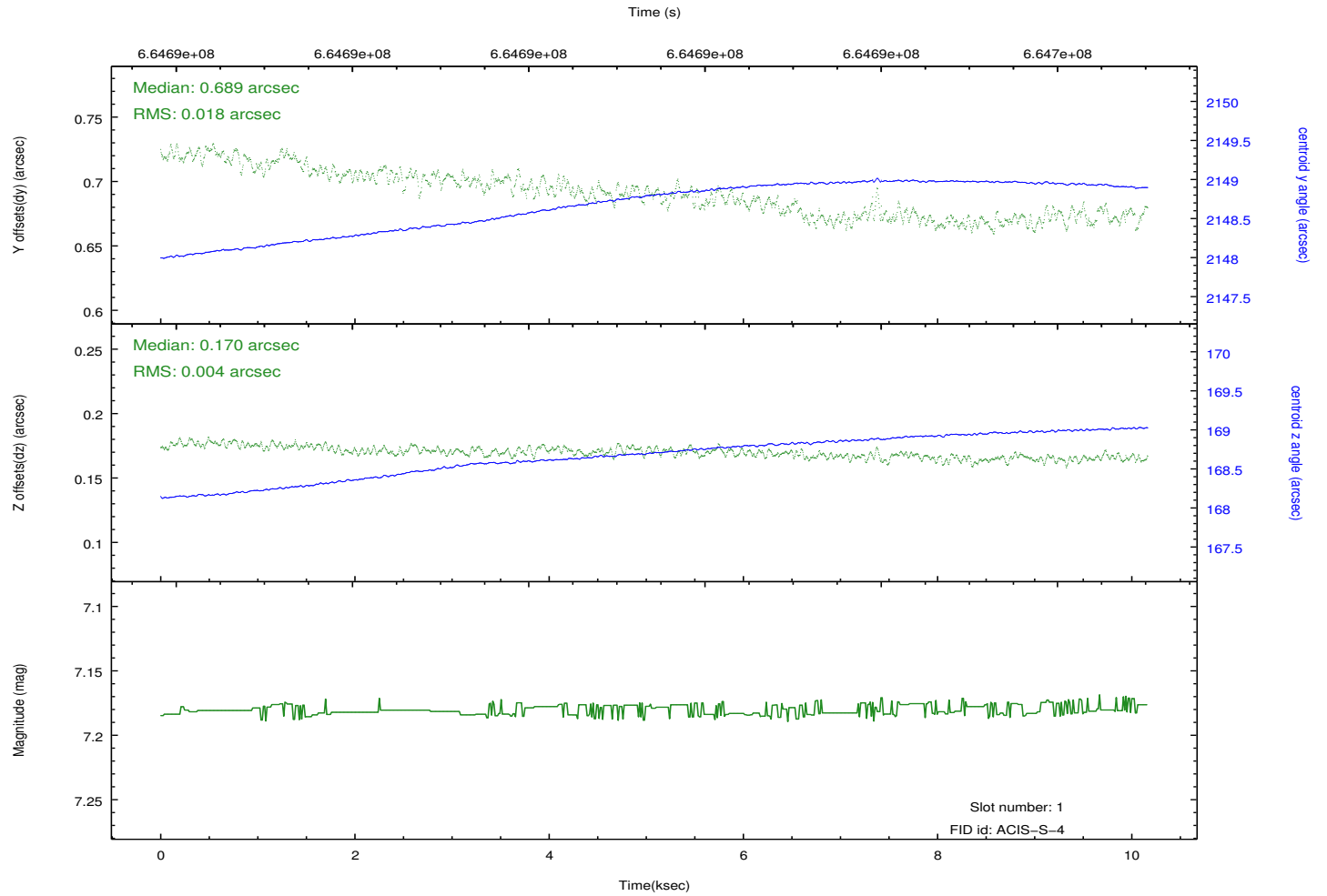
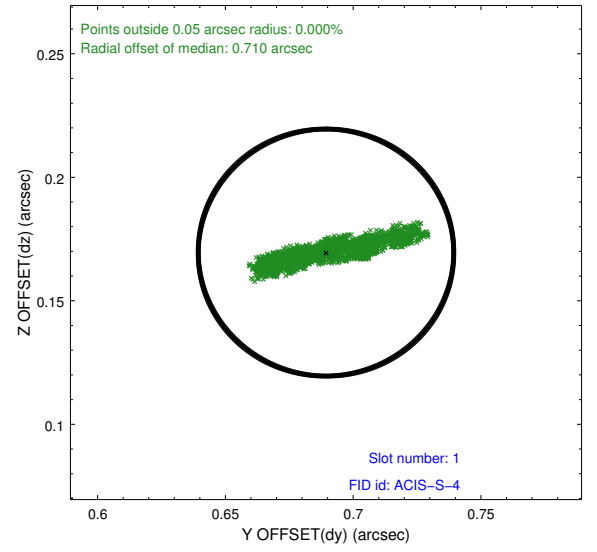
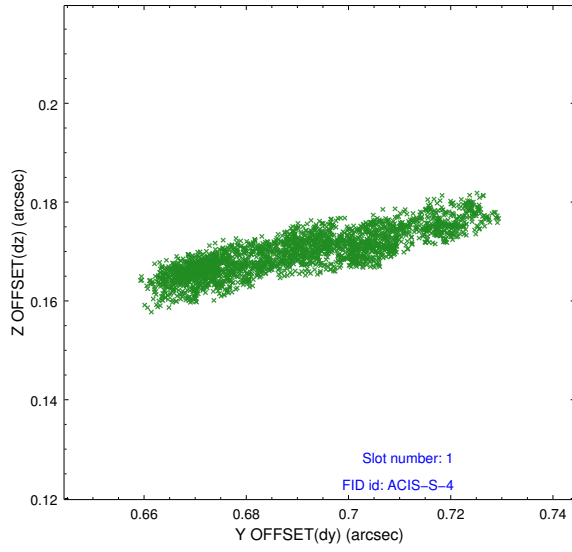


2.5 FID Slots

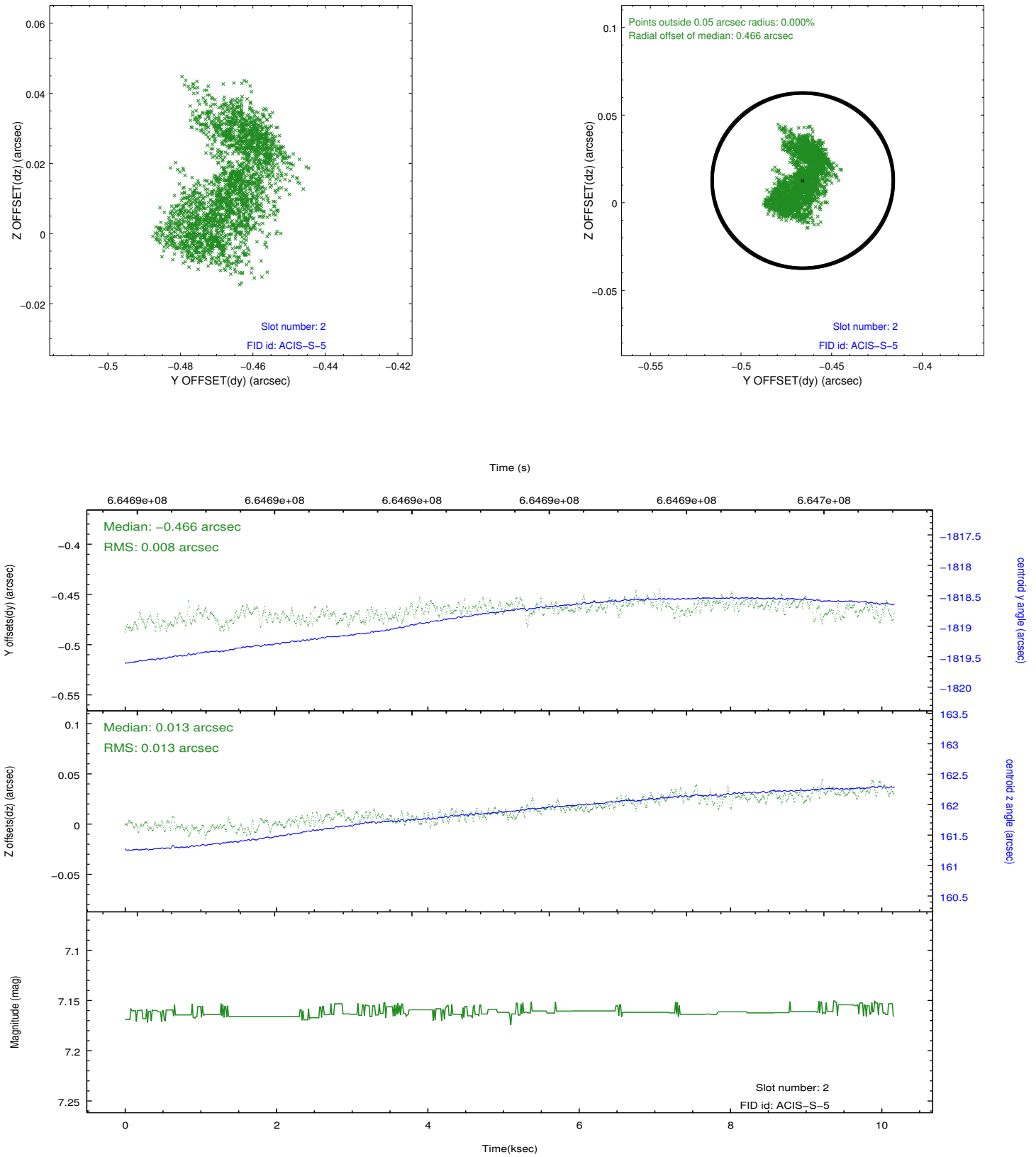
2.5.1 Slot 0



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)	2019.01.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.068399399757

A.2 Comments

Joint proposal with NuSTAR.