

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 13756 - L2 Version 1
Chandra X-Ray Center

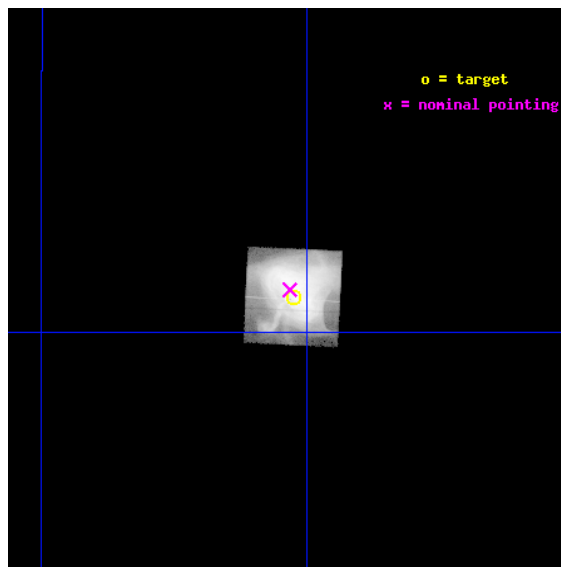
L2 Processing Date : Sep 12 2012

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1 Front

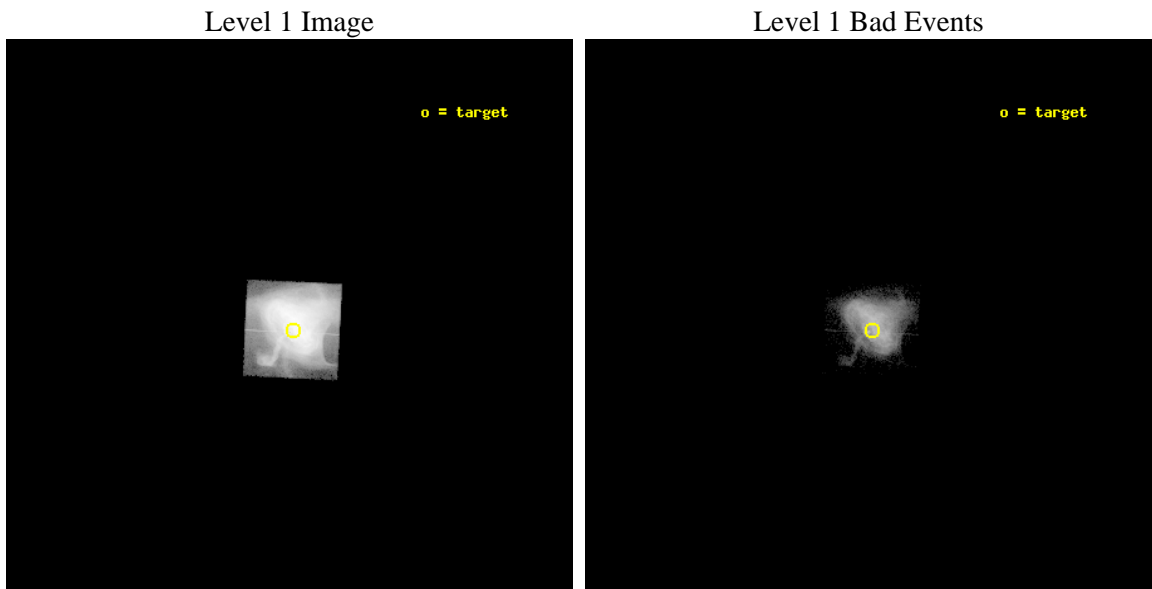
seq_num	501589	Sequence number
obs_id	13756	Observation id
title	Joint Chandra and HST Monitoring of the Crab Nebula	Proposal title
observer	Dr. Martin Weisskopf	Principal investigator
object	Crab	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	83.631667	Observer's specified target RA [deg]
dec_targ	22.015667	Observer's specified target Dec [deg]
ra_nom	83.63324369659	Nominal RA [deg]
dec_nom	22.018509194416	Nominal Dec [deg]
roll_nom	92.772783517313	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3446.0390005708	Sum of GTIs [s]
livetime	598.62401427419	Livetime [s]
ontime7	3446.0390005708	Sum of GTIs [s]
l2events	1717330	Number of level 2 events



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	5009.624000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	3446.0390005708	Sum of GTIs [s]
caldsver	4.5.1.1	 	ontime7	3446.0390005708	Sum of GTIs [s]
date	2012-09-12T05:56:12	Date and time of file creation	l1events	1895264	Number of level 1 events
revision	1	Processing version of data			

2.1.3 Events

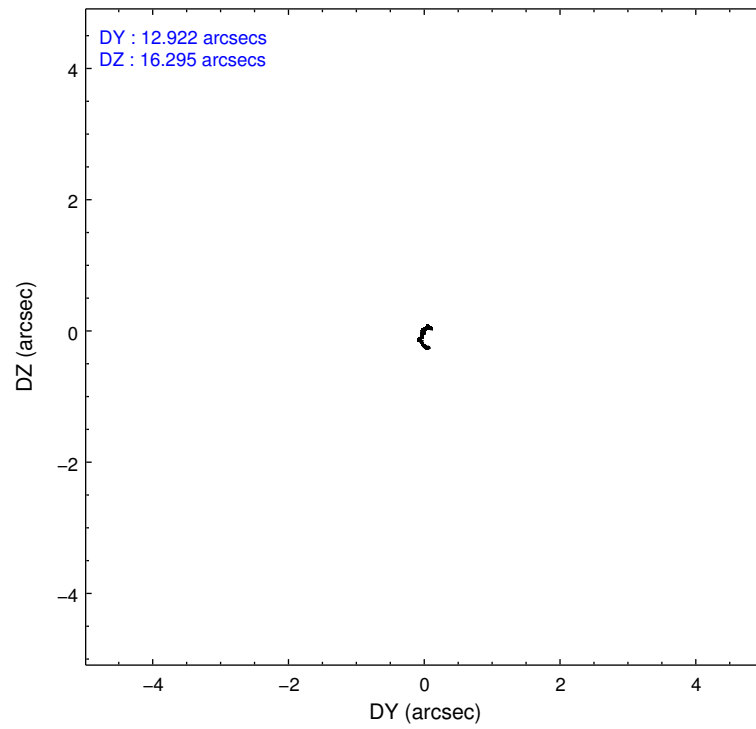
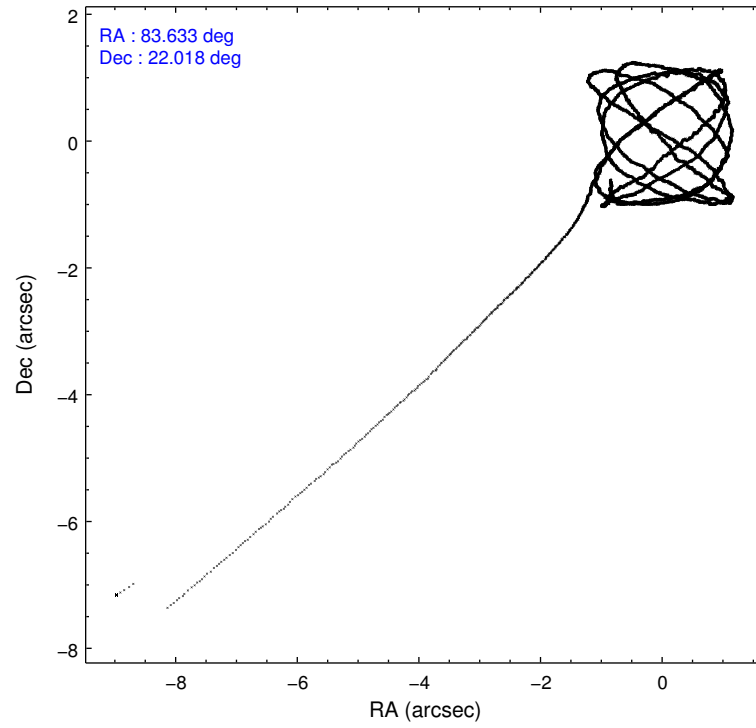
	ccd 7
level 1 events	1895264
rejected events	164955
rejected %	8%

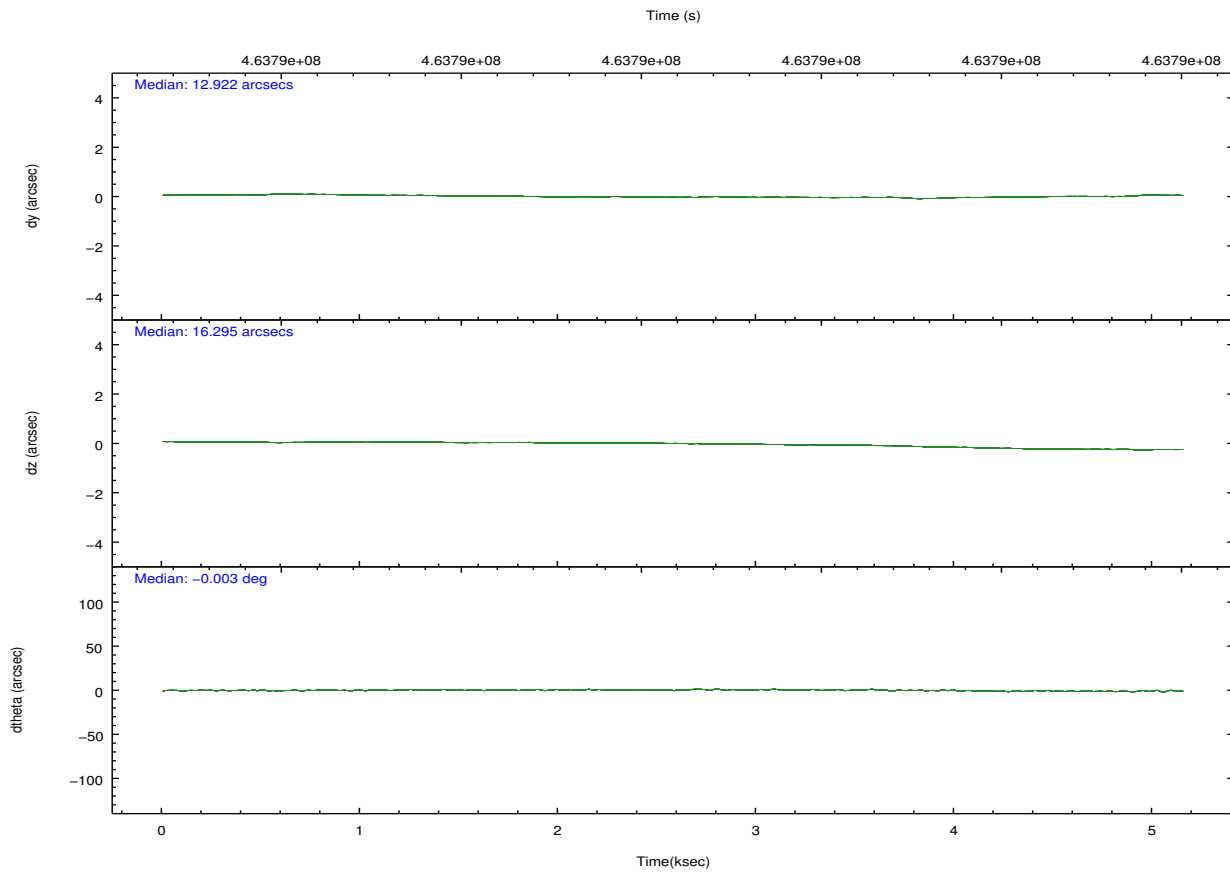
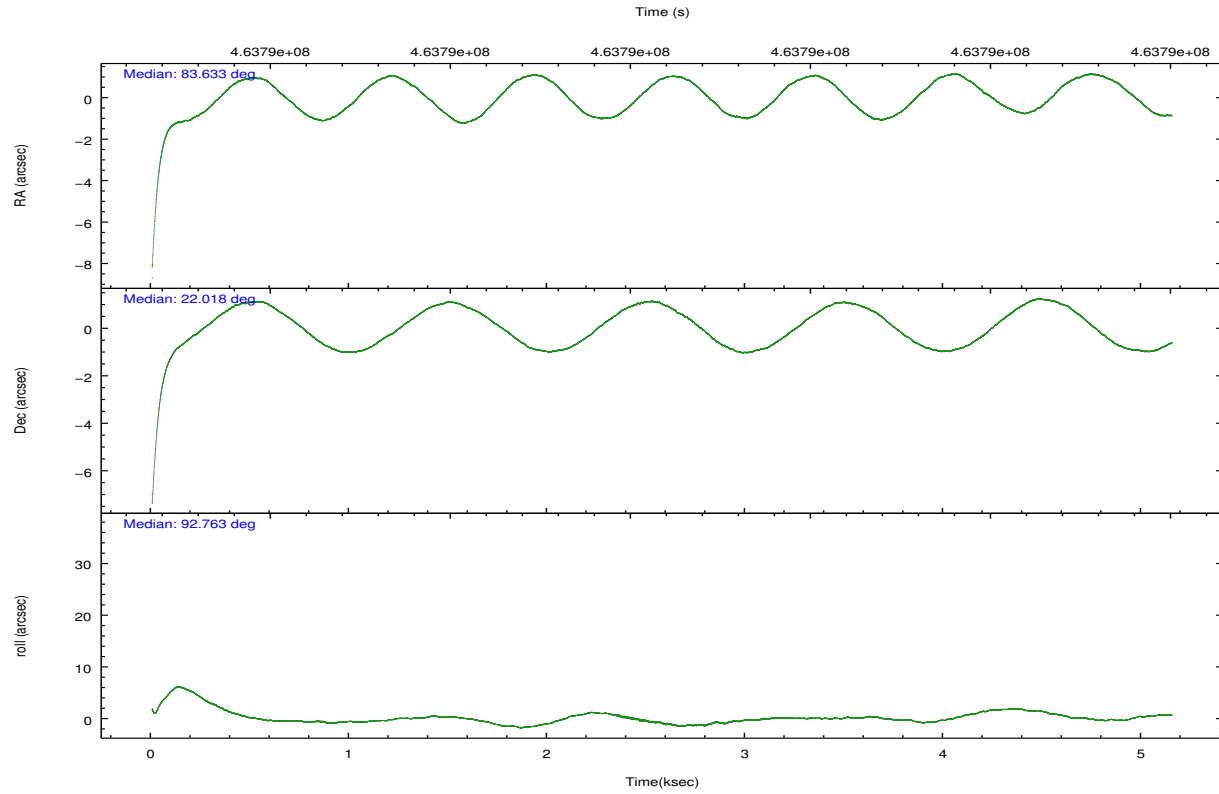
	ccd 7
grade 0 events	389620
	20%
grade 1 events	21612
	1%
grade 2 events	474144
	25%
grade 3 events	193646
	10%
grade 4 events	191457
	10%
grade 5 events	60662
	3%
grade 6 events	482022
	25%
grade 7 events	82101
	4%

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	GRADED	GRADED	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	83.649567	83.6332436965897	Subarray requested	CUSTOM	CUSTOM
[deg] Pointing Dec	21.995739	22.01850919441565	Subarray start row	225	225
[deg] Pointing Roll	92.610063	92.77278351731321	Subarray row count	300	300
[s] Window start time (MET)	463622467.184000	463622467.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	464572866.184000	464572866.184000	[s] Primary exposure time	0.000000	0.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-187.436523	-187.4472343619011			
[mm] SIM translation stage offset	-2.696	-2.685288221106674			
[s] Observation start time (MET)	463785750.184000	463784492.62533			
Observation start date	2012-09-11T21:21:23	2012-09-11T21:01:32			
[s] Observation end time (MET)	463790760.184000	463790984.97567			
Observation end date	2012-09-11T22:44:53	2012-09-11T22:49:44			
Read mode	TIMED	TIMED			

2.3 Aspect



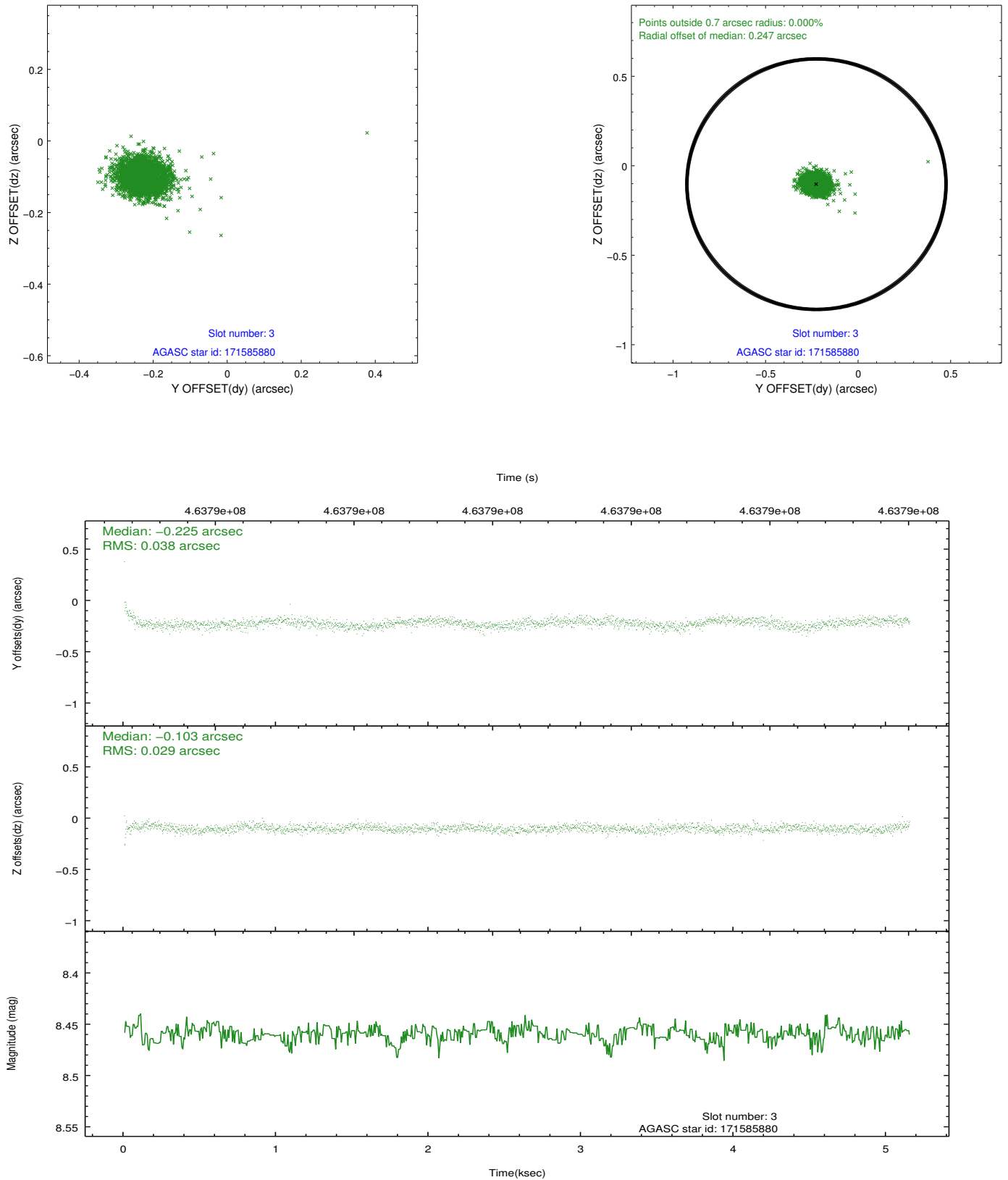


Slot Statistics

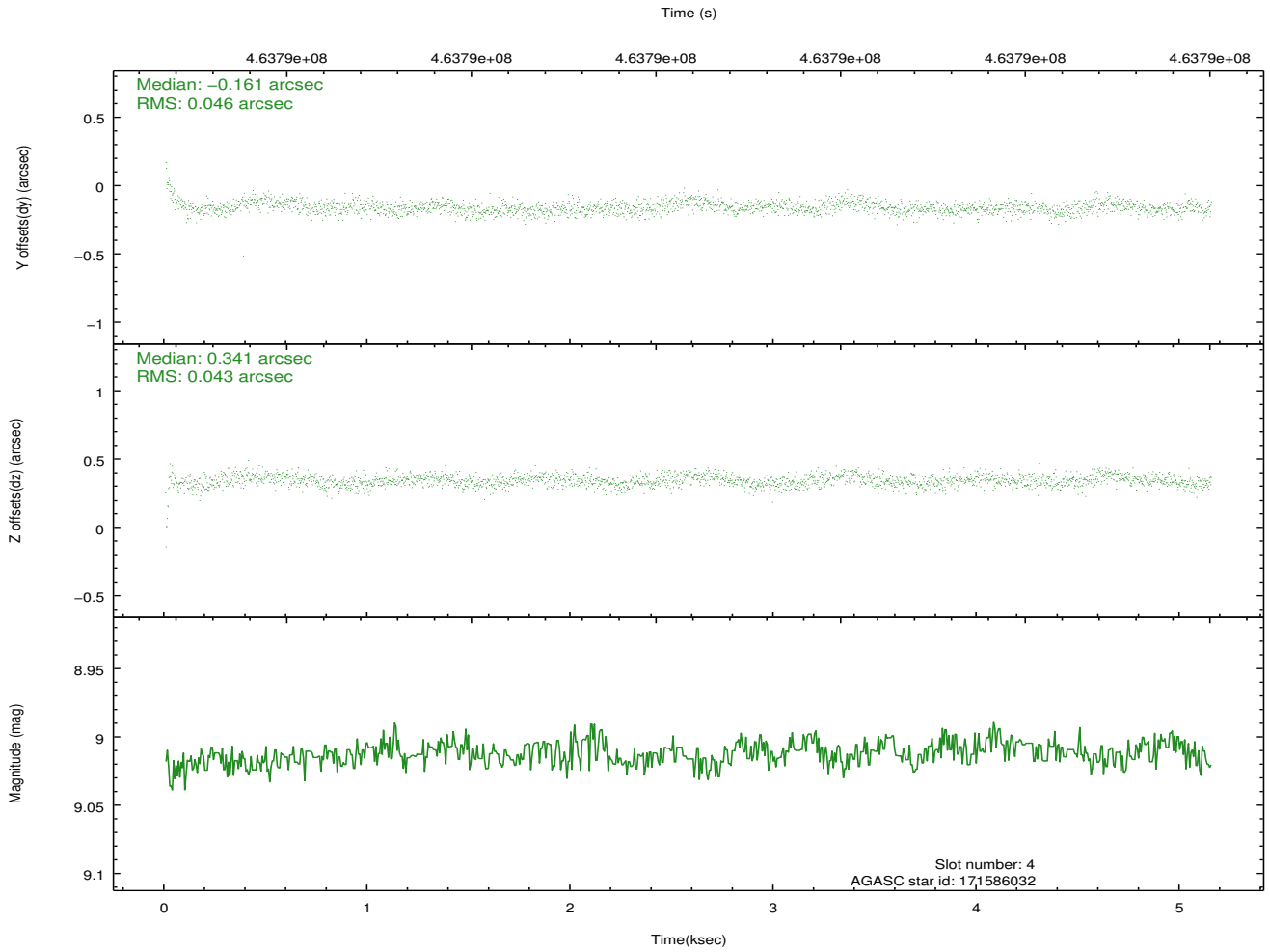
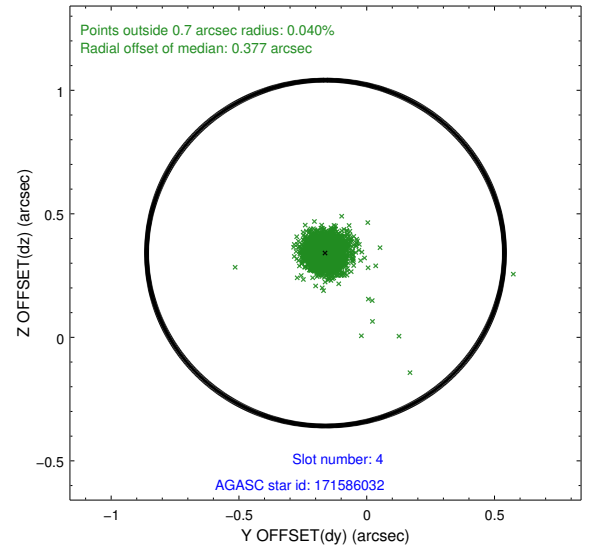
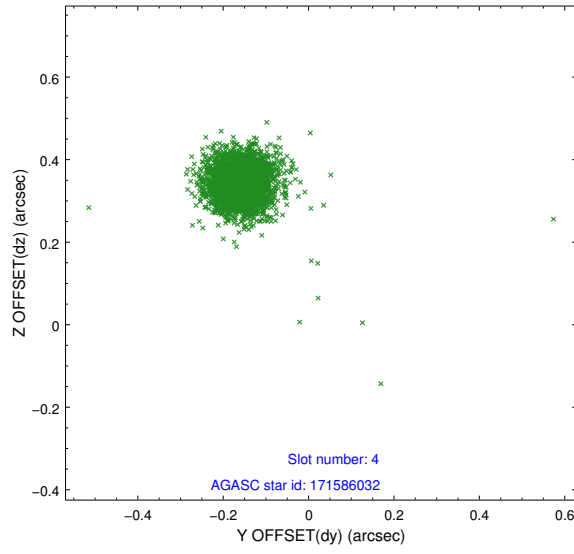
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.91	1257	-0.070	-0.039	0.008	0.013	0.000000	0.000000	-765.75	-1793.15
1	FID	ACIS-S-4	6.97	1257	0.174	0.044	0.006	0.011	0.000000	0.000000	2147.25	114.11
2	FID	ACIS-S-5	7.03	1257	-0.134	0.003	0.008	0.013	0.000000	0.000000	-1817.13	109.13
3	GUIDE	171585880	8.46	2513	-0.225	-0.103	0.048	0.079	83.676260	22.176319	645.52	-118.25
4	GUIDE	171586032	9.01	2511	-0.161	0.341	0.061	0.101	83.950197	22.083225	270.56	-1015.63
5	GUIDE	171597832	9.13	2512	0.302	-0.355	0.069	0.115	83.183230	21.366702	-2188.19	1664.04
6	GUIDE	171721904	9.20	2509	0.113	0.338	0.075	0.121	84.272676	22.116922	345.35	-2094.73
7	GUIDE	243941560	8.30	2511	-0.024	-0.225	0.055	0.094	83.733264	22.568598	2047.88	-372.18

2.4 Star Slots

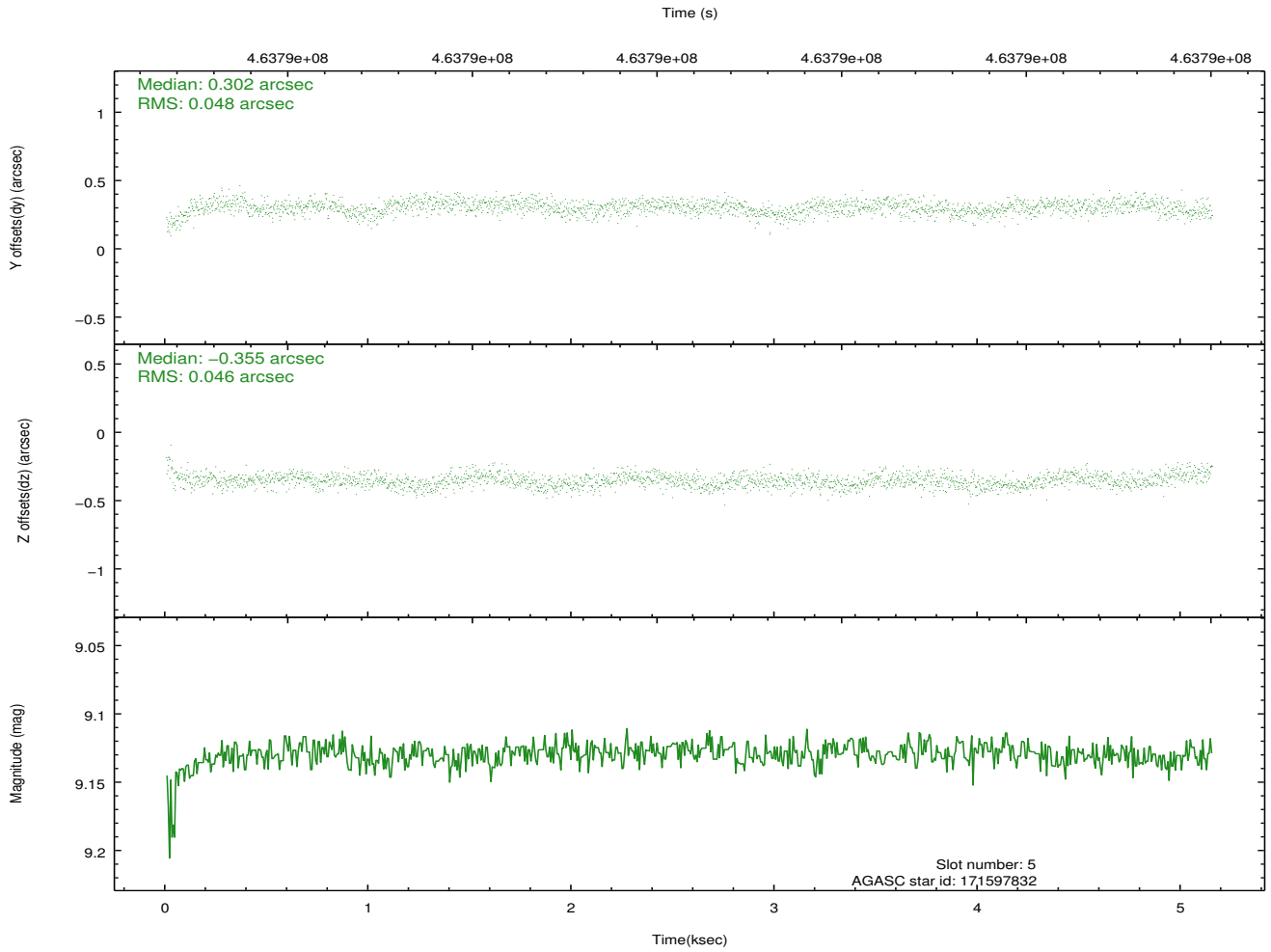
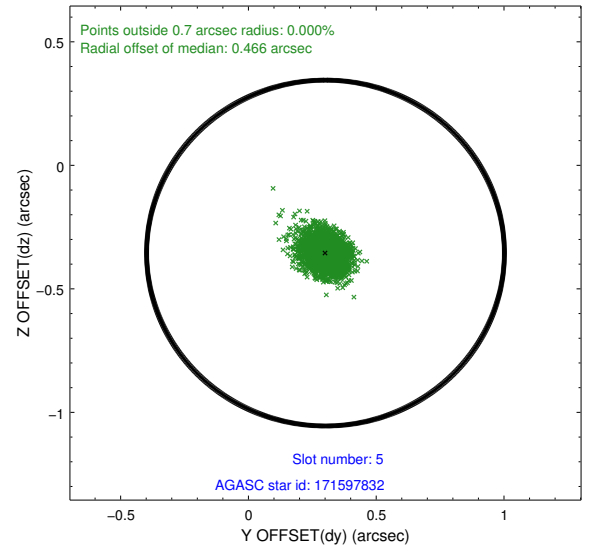
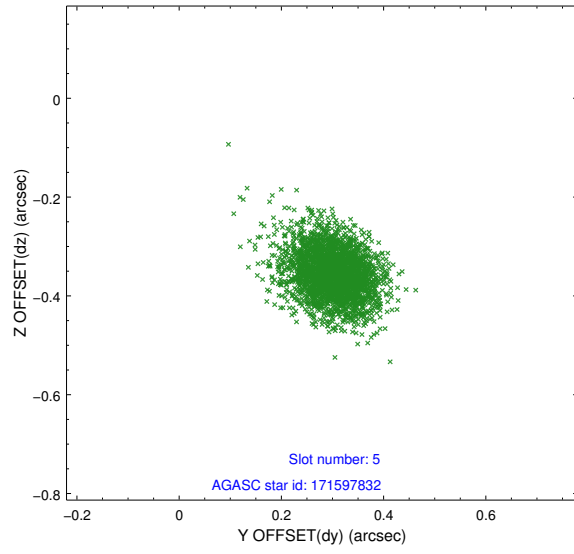
2.4.1 Slot 3



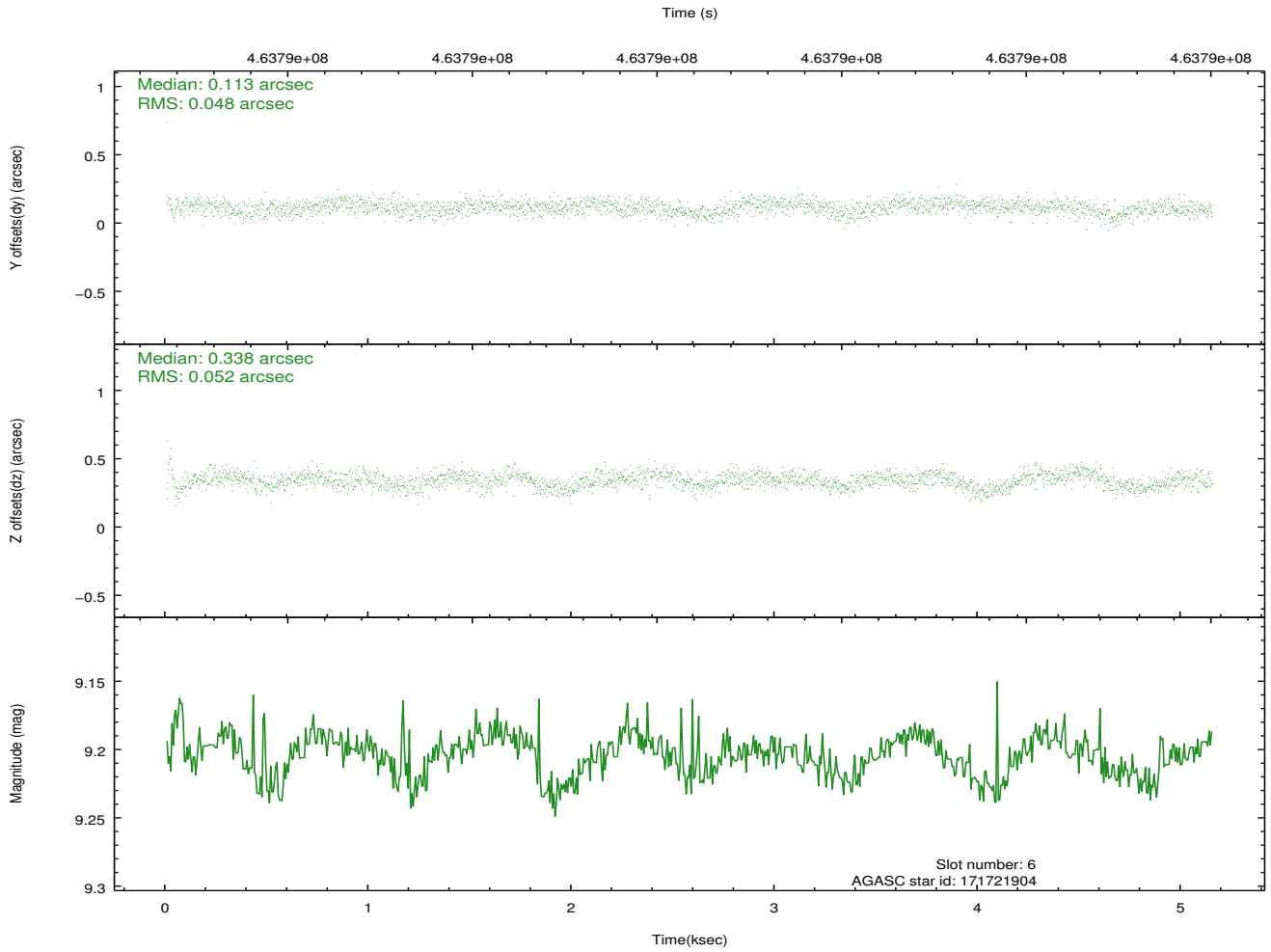
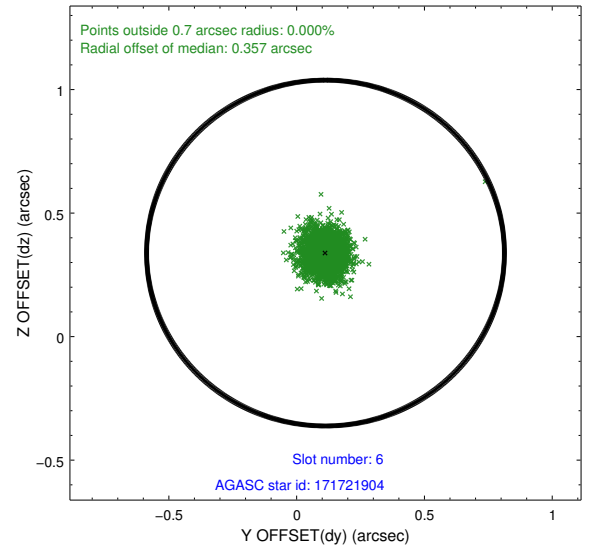
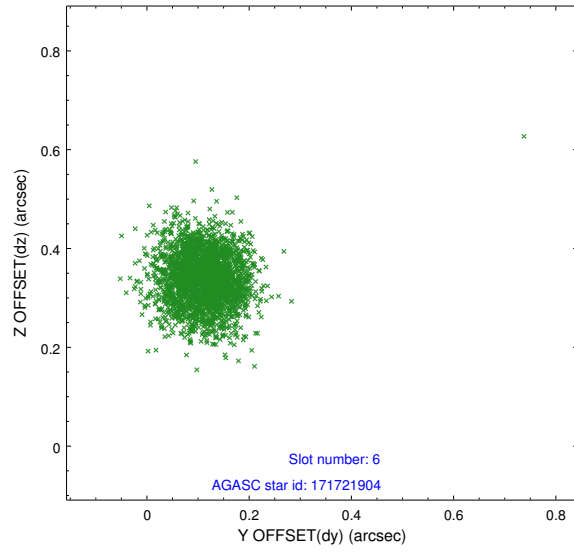
2.4.2 Slot 4



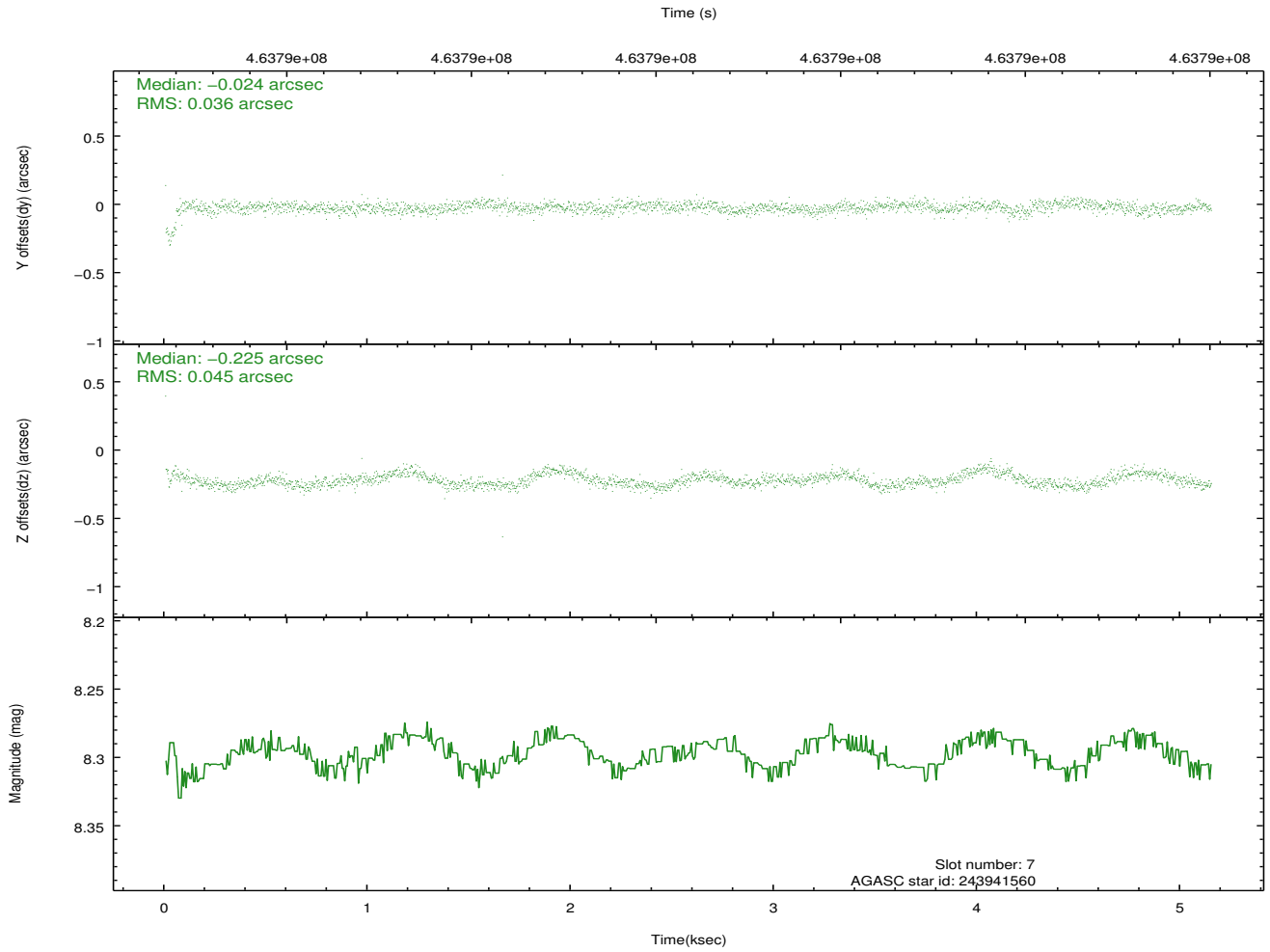
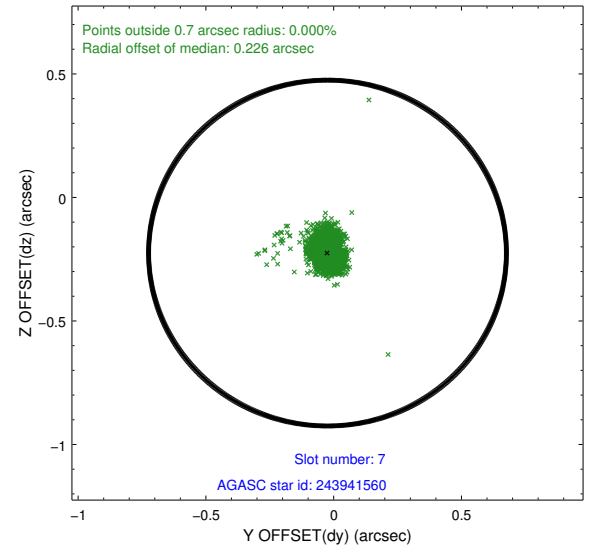
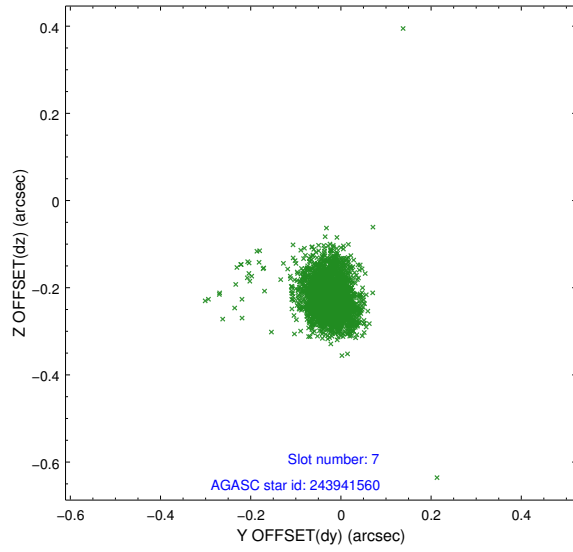
2.4.3 Slot 5



2.4.4 Slot 6

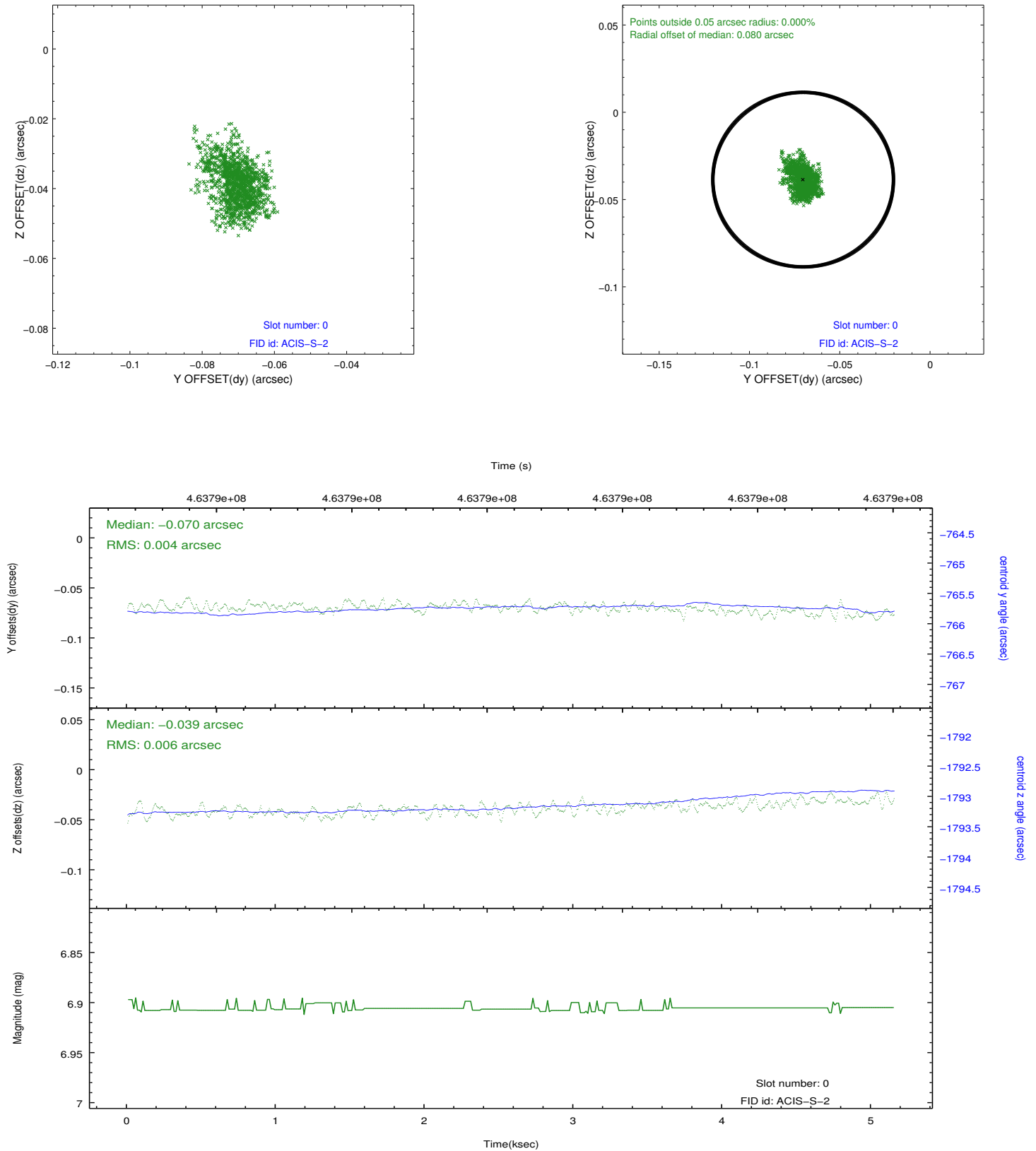


2.4.5 Slot 7

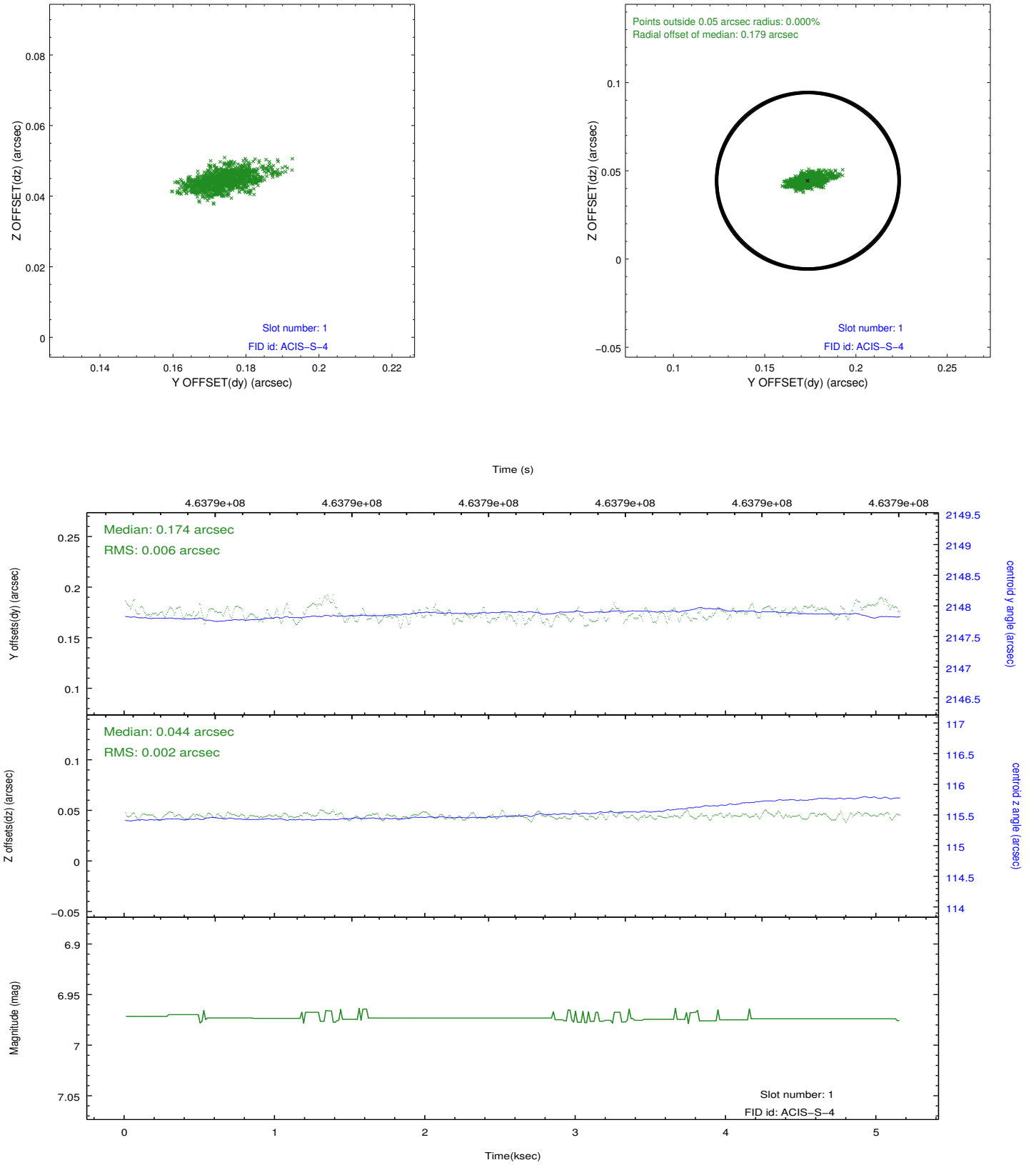


2.5 FID Slots

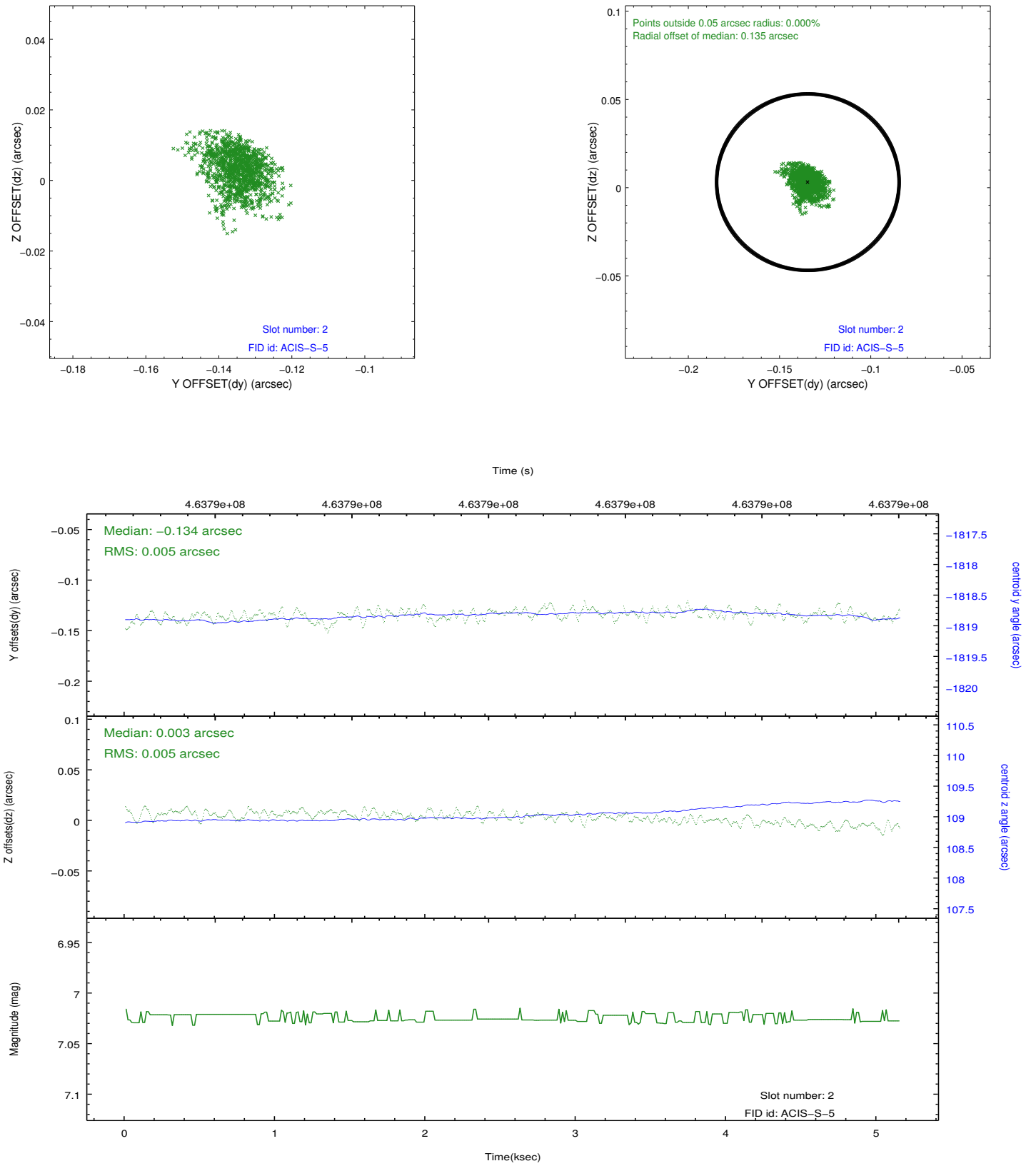
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.09.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5

A.2 Comments

Window constraint met. Special dither pattern of 1 arcsec used. == The high count rate resulted in telemetry saturation and a large number of dropped exposures. The ONTIME value reflects the lost exposure time.