

V&V Reference Report

L2 ASCDS Version : 10.5

Observation 18065 - L2 Version 1
Chandra X-Ray Center

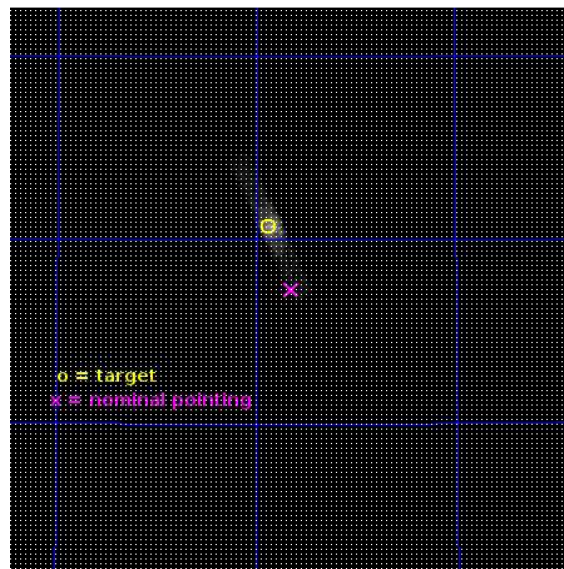
L2 Processing Date : Jul 29 2016

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1 Front

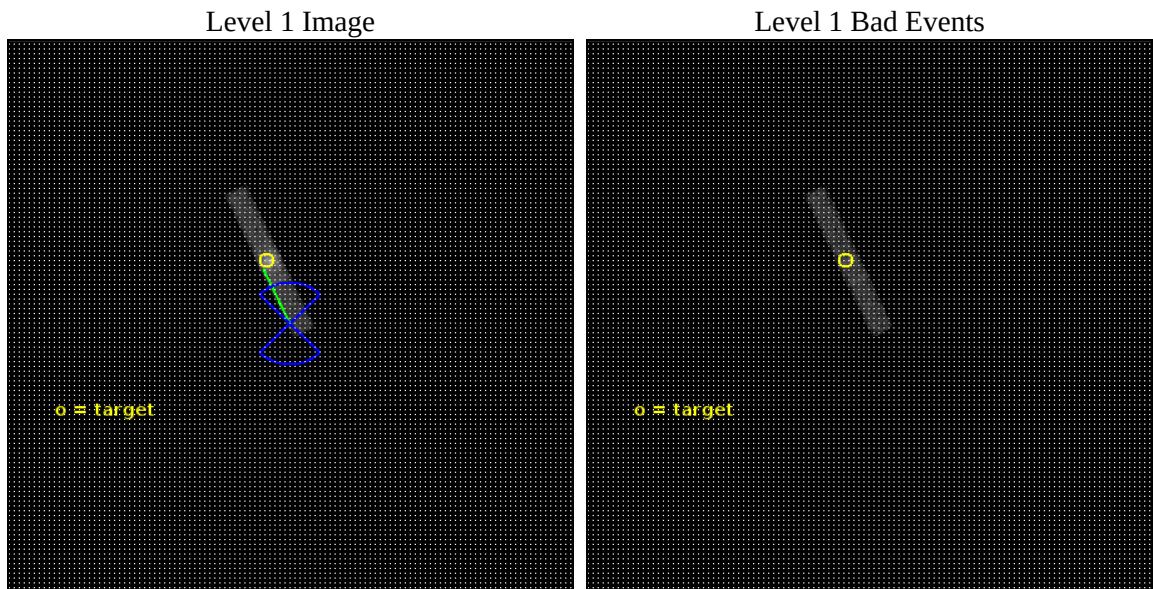
seq_num	601247	Sequence number
obs_id	18065	Observation id
title	Timing and Spectral Studies of the Extreme Binary Population in M82	
observer	Professor Fiona Harrison	Principal investigator
object	M82 offset 1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	148.969583	Observer's specified target RA [deg]
dec_targ	69.679444	Observer's specified target Dec [deg]
ra_nom	148.91222519669	Nominal RA [deg]
dec_nom	69.621715992802	Nominal Dec [deg]
roll_nom	335.26246928619	Nominal Roll [deg]
revision	1	Processing version of data
ontime	25099.5	Sum of GTIs [s]
livetime	23195.604761201	Livetime [s]
ontime3	25099.5	Sum of GTIs [s]
l2events	53351	Number of level 2 events



2 OBI

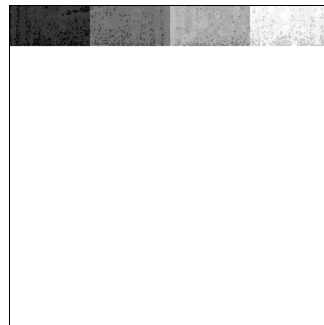
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 3



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	10.5	Processing system revision	ontime	25099.5	Sum of GTIs [s]
caldsver	4.7.2	 	ontime3	25099.5	Sum of GTIs [s]
date	2016-07-30T02:46:40	Date and time of file creation	l1events	84861	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

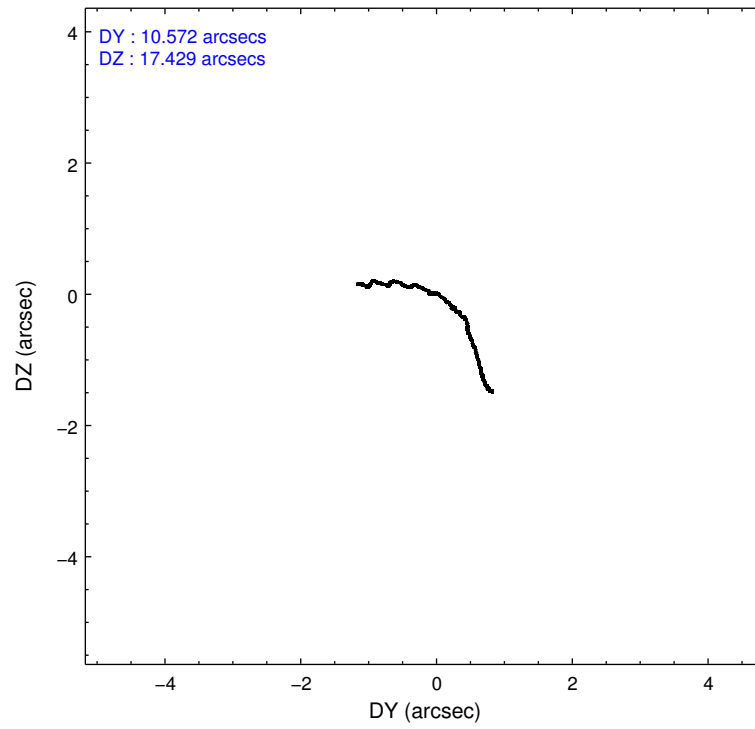
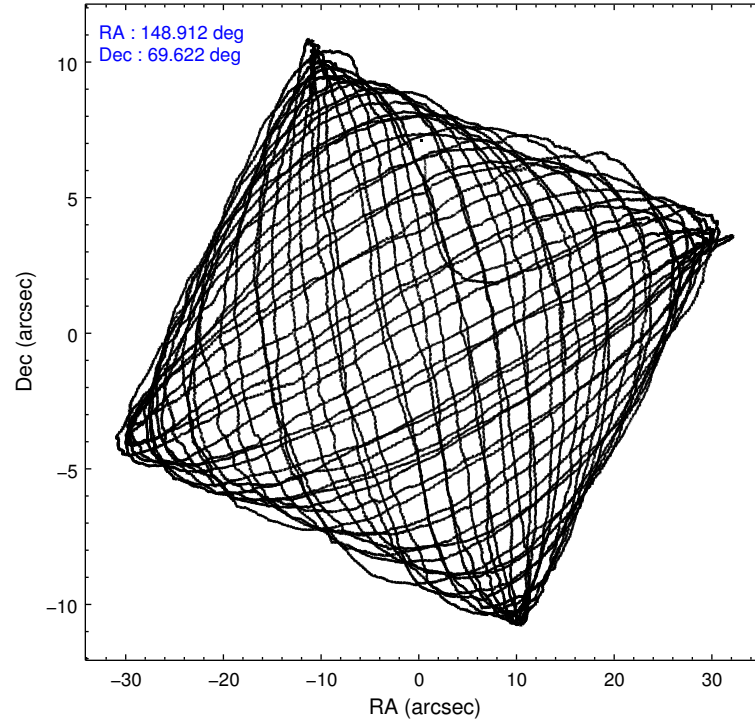
	ccd 3
level 1 events	84861
rejected events	26552
rejected %	31%

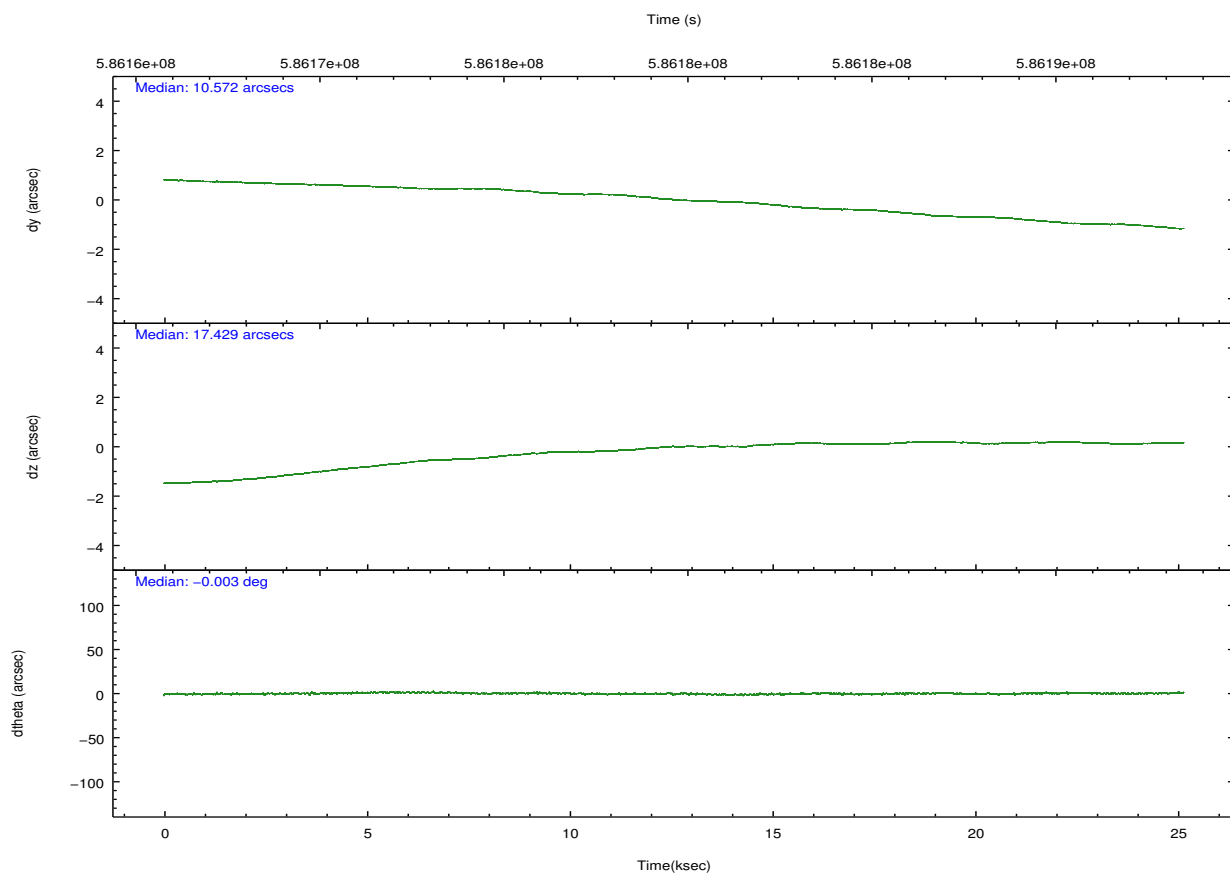
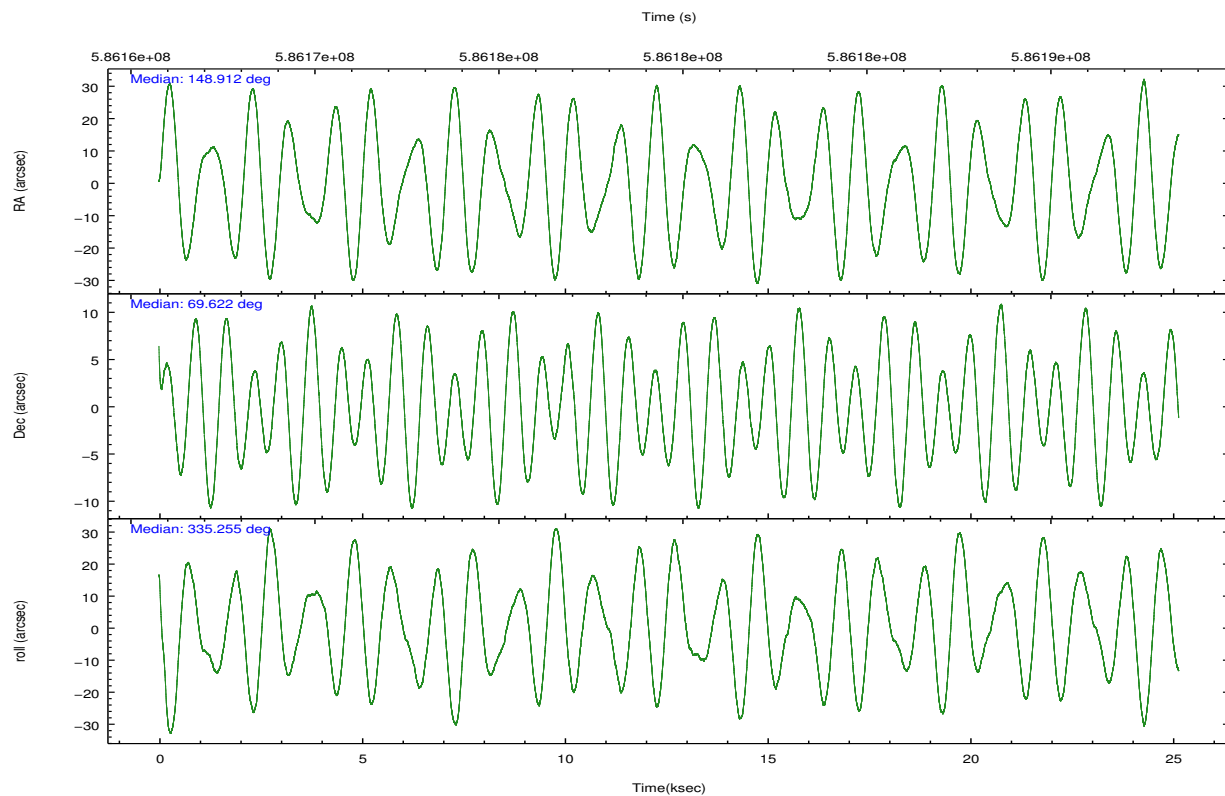
	ccd 3
grade 0 events	45344
	53%
grade 1 events	1413
	1%
grade 2 events	5825
	6%
grade 3 events	2541
	2%
grade 4 events	2481
	2%
grade 5 events	1762
	2%
grade 6 events	2121
	2%
grade 7 events	23374
	27%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-3	ACIS-3	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	148.833299	148.9122251966942	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	69.619046	69.62171599280192	Subarray start row	897	897
[deg] Pointing Roll	335.127762	335.2624692861942	Subarray row count	128	128
[deg] Roll angle	180.000000	180.000000	Alternating exposures requested	N	N
[deg] Roll tolerance	45.000000	45.000000	[s] Primary exposure time	0.000000	0.5
Roll constraint allows 180D rotation	Y	Y			
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	586167165.184000	586165869.58816			
Observation start date	2016-07-29T08:11:37	2016-07-29T07:51:09			
[s] Observation end time (MET)	586192165.184000	586193217.61473			
Observation end date	2016-07-29T15:08:17	2016-07-29T15:26:57			
Read mode	TIMED	TIMED			

2.3 Aspect



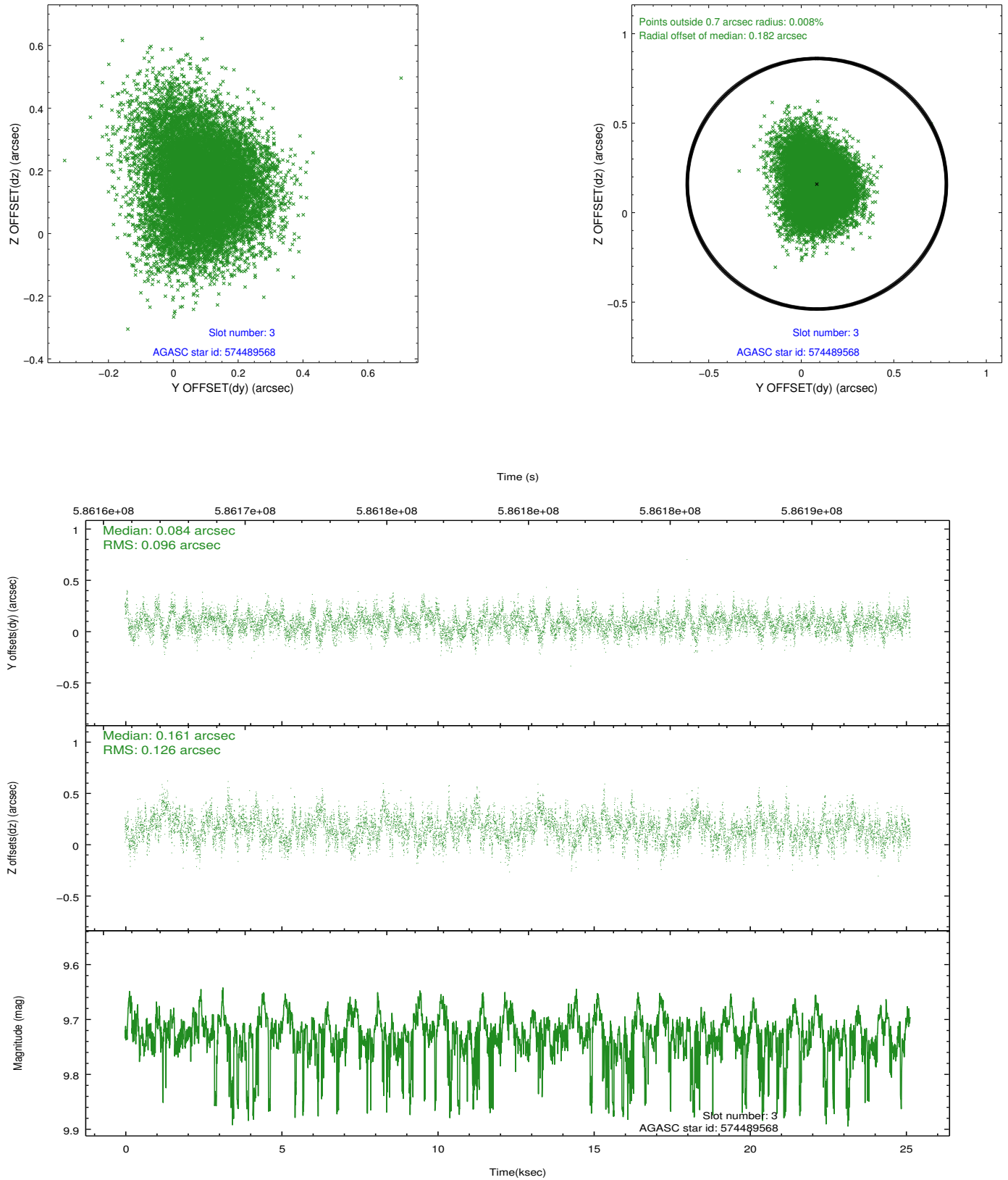


Slot Statistics

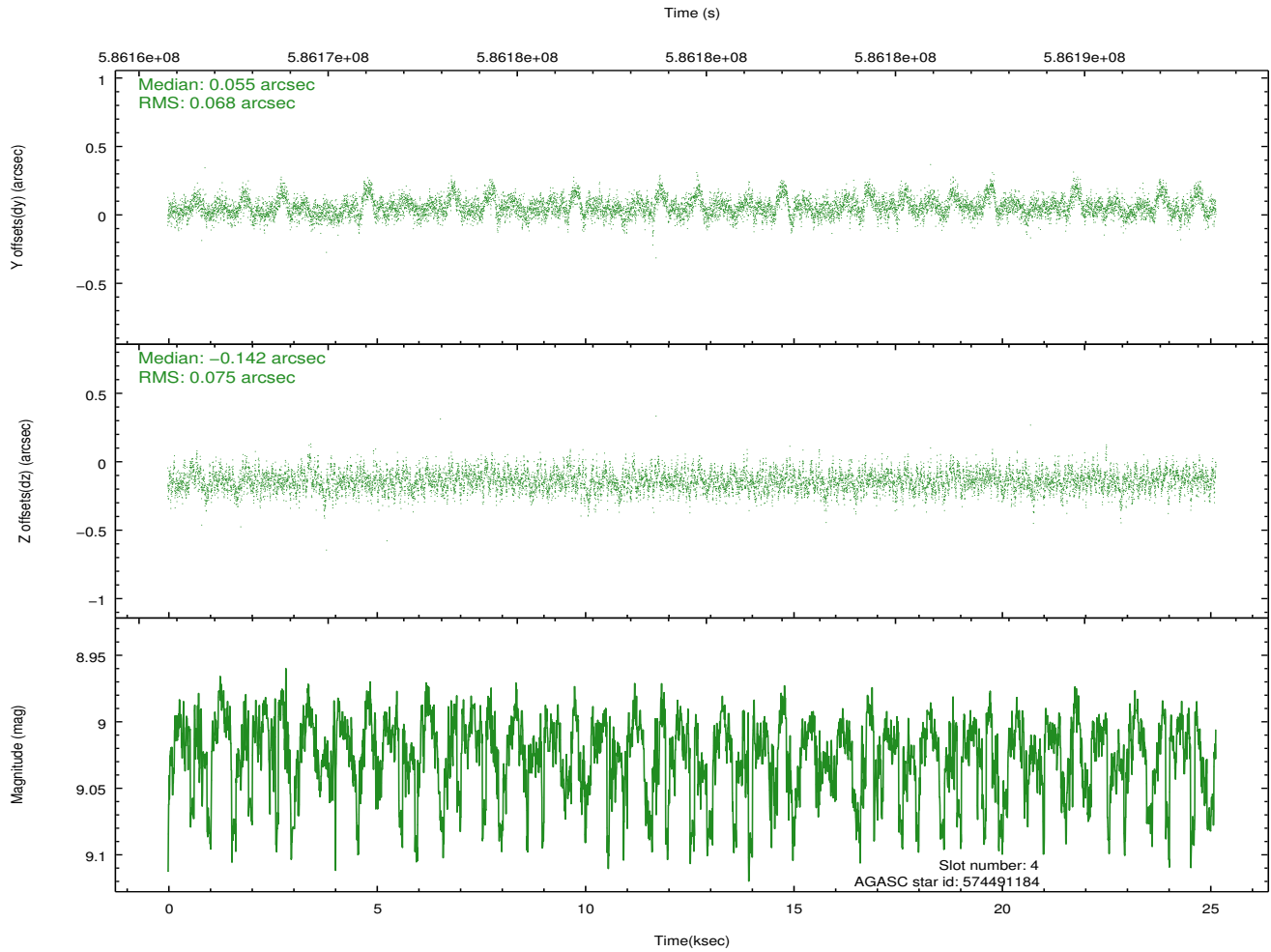
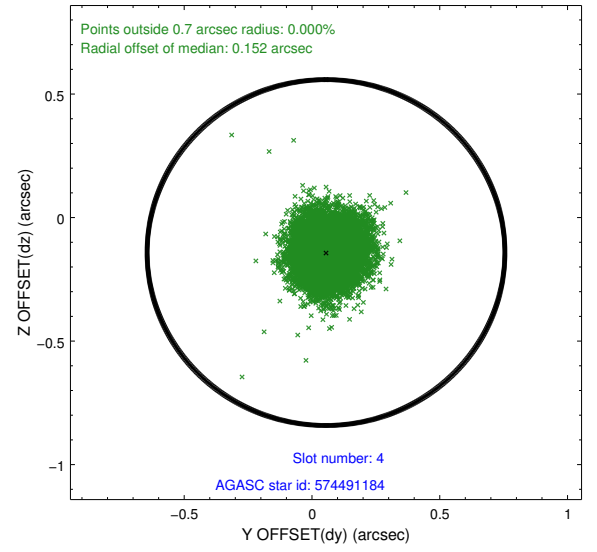
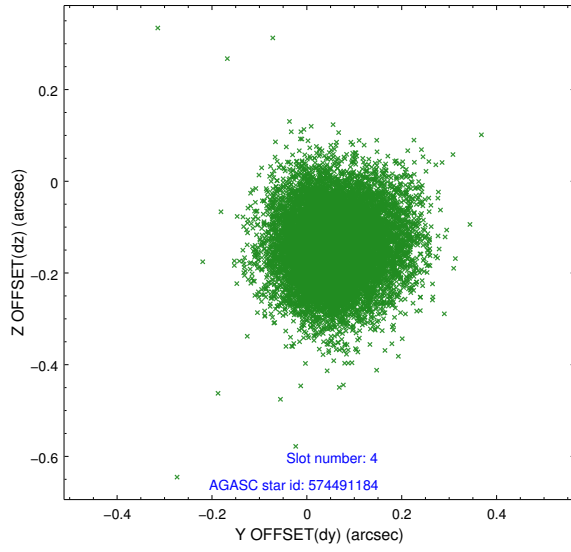
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.22	6134	0.092	-0.047	0.024	0.048	0.000000	0.000000	929.17	-840.84
1	FID		ACIS-I-5	7.20	6134	-0.300	0.067	0.015	0.026	0.000000	0.000000	-1819.30	1056.66
2	FID		ACIS-I-6	7.20	6134	0.117	0.045	0.032	0.077	0.000000	0.000000	394.56	1701.33
3	GUIDE	used	574489568	9.73	12254	0.084	0.161	0.169	0.274	147.223974	69.438157	-1582.72	-1422.12
4	GUIDE	used	574491184	9.02	12262	0.055	-0.142	0.106	0.175	148.582453	69.768699	-510.04	357.89
5	GUIDE	used	574491872	9.22	12256	0.096	0.384	0.121	0.194	147.207613	69.765453	-2067.11	-353.46
6	GUIDE	used	574886496	8.48	12263	-0.182	-0.264	0.110	0.184	148.945563	70.041136	-514.55	1436.81
7	GUIDE	used	574885216	8.47	12264	-0.057	-0.134	0.114	0.190	147.834547	70.411352	-2297.63	2089.66

2.4 Star Slots

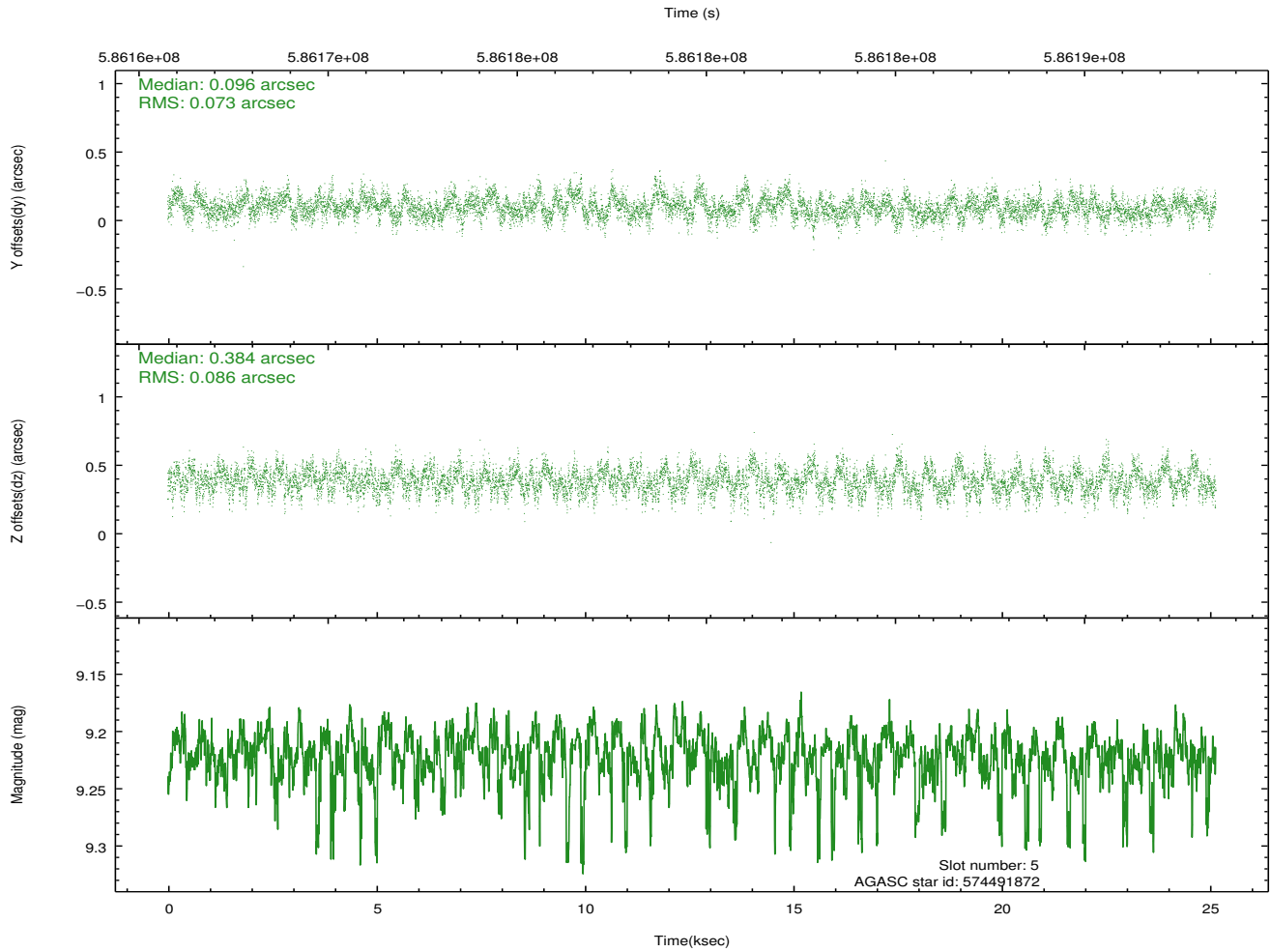
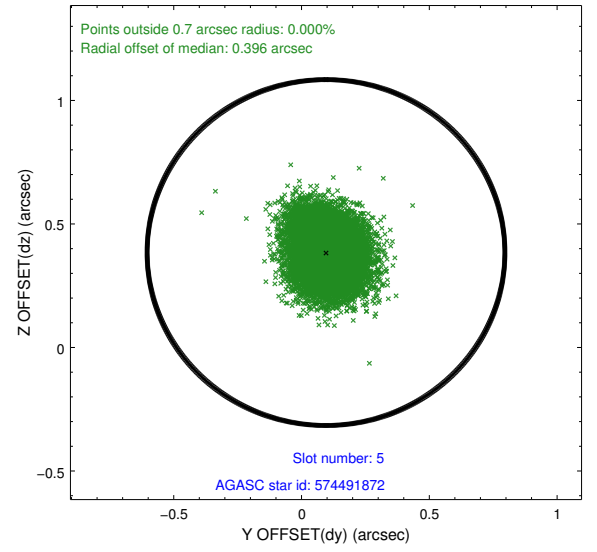
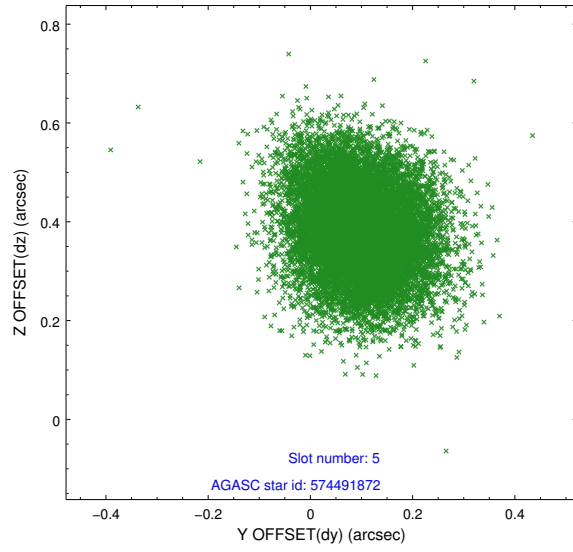
2.4.1 Slot 3



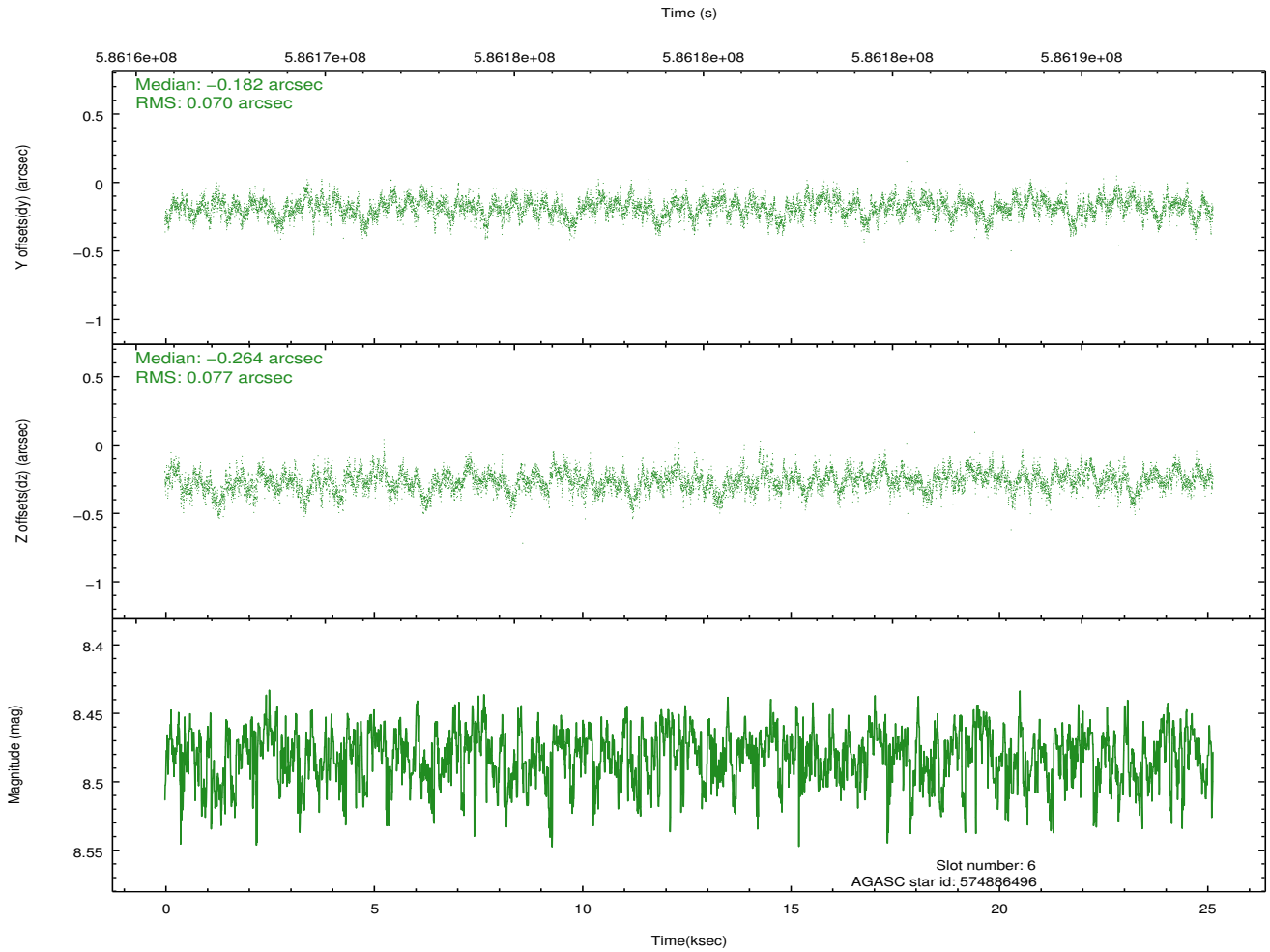
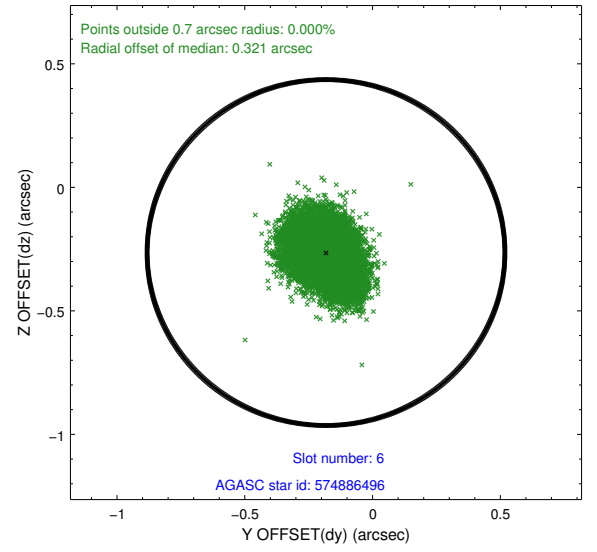
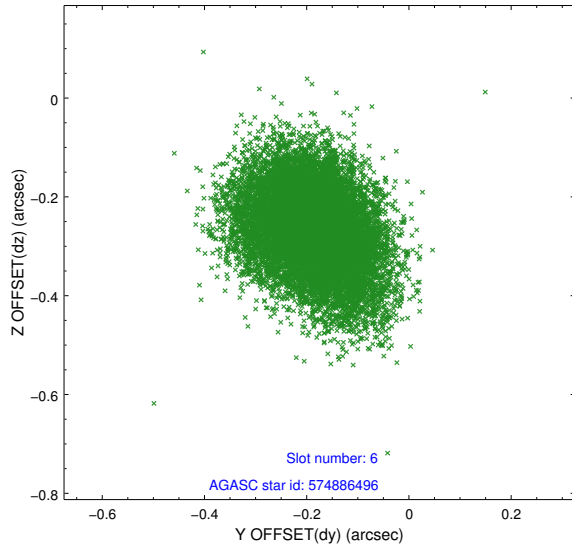
2.4.2 Slot 4



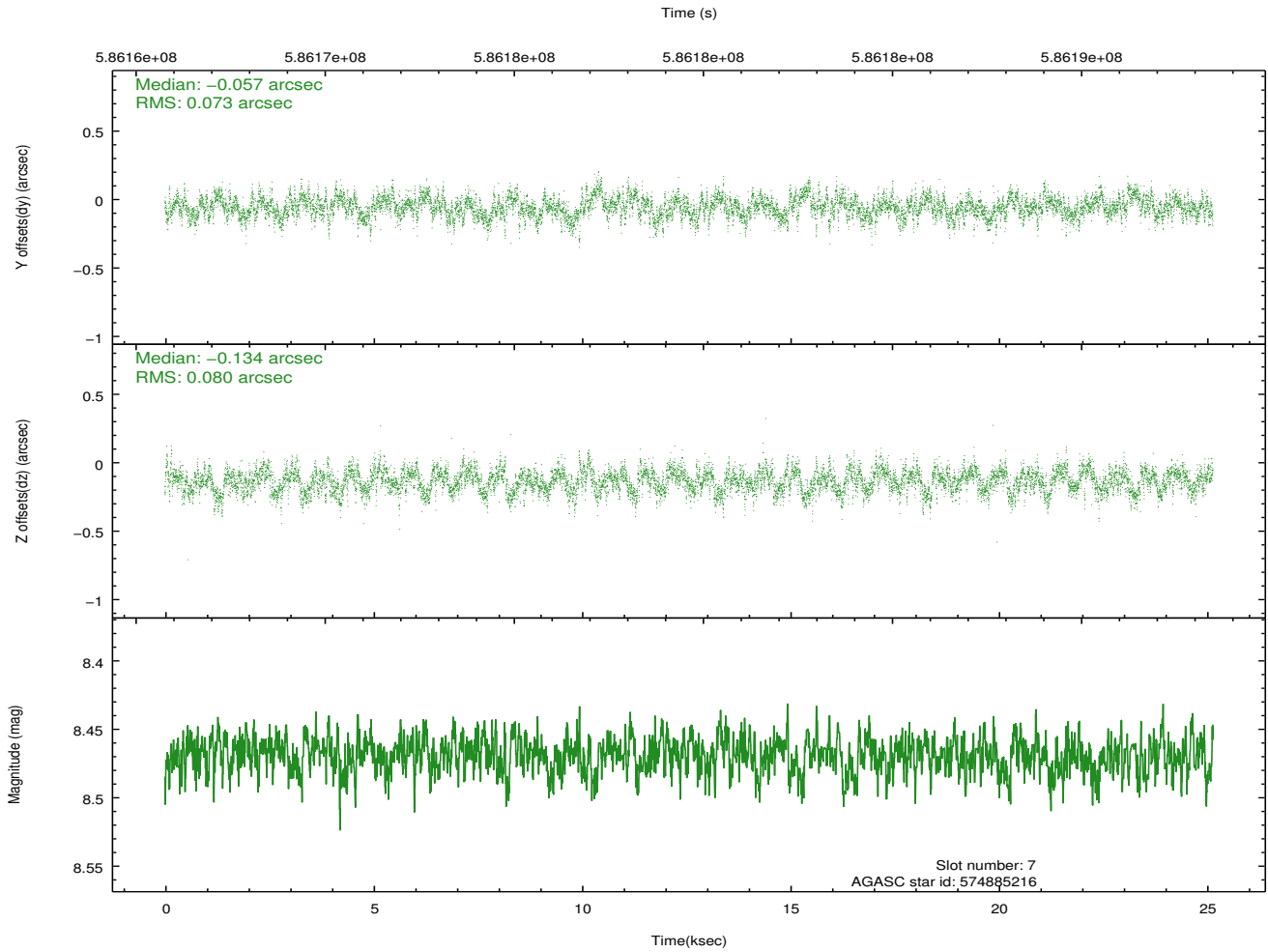
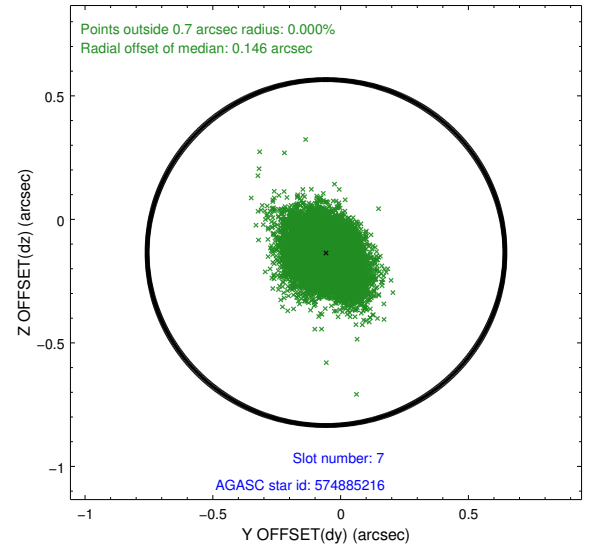
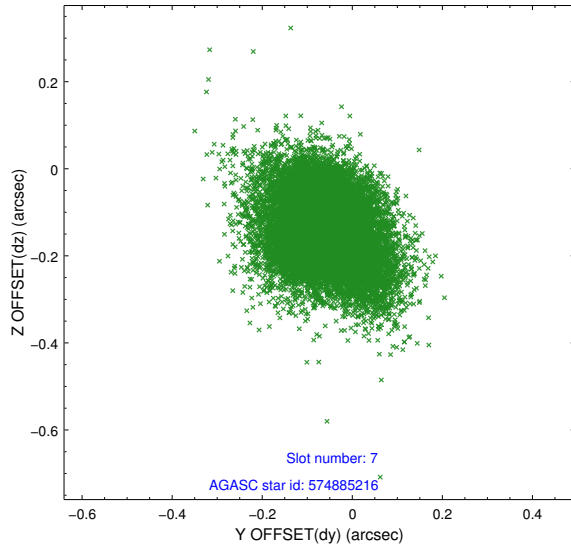
2.4.3 Slot 5



2.4.4 Slot 6

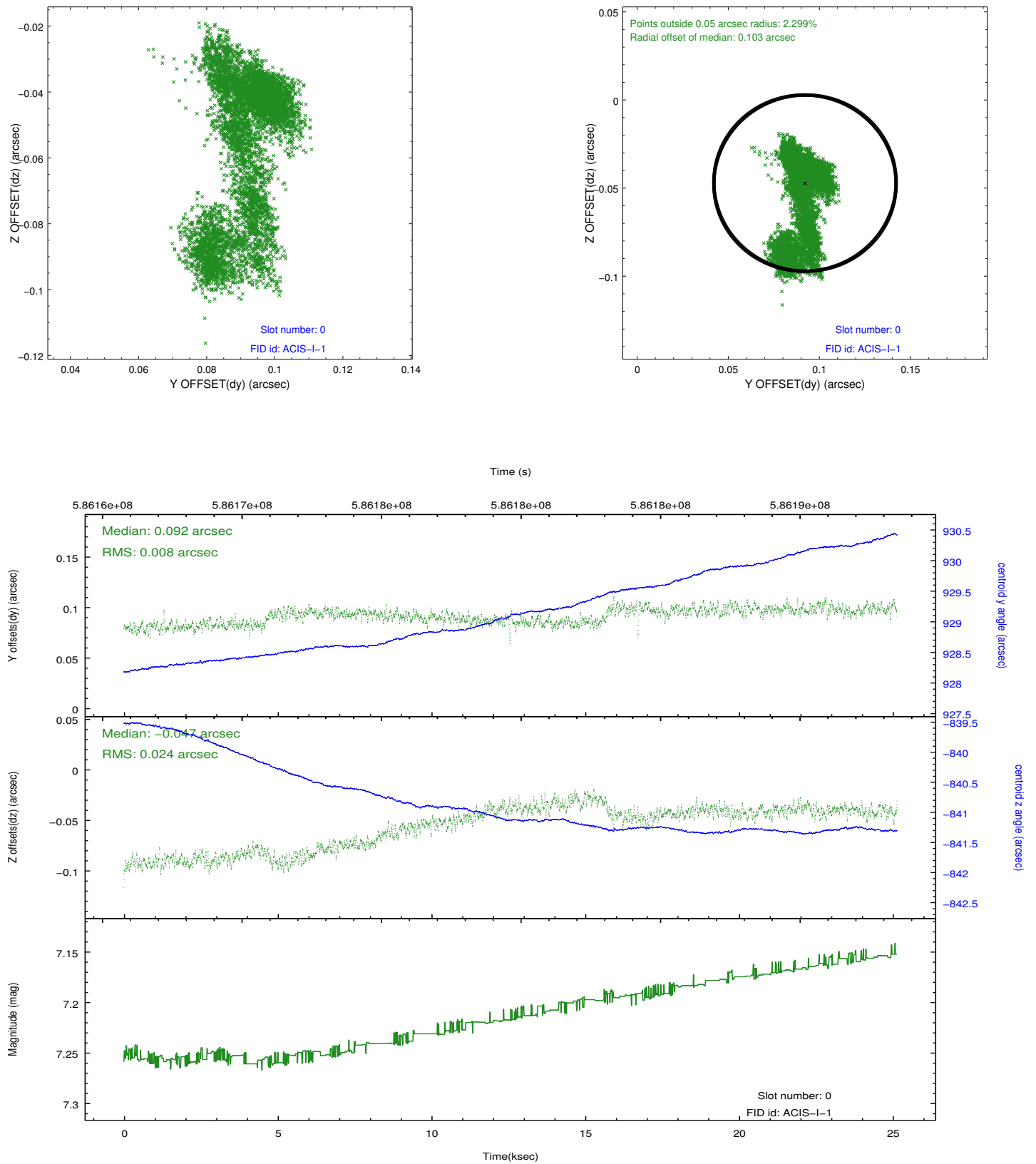


2.4.5 Slot 7

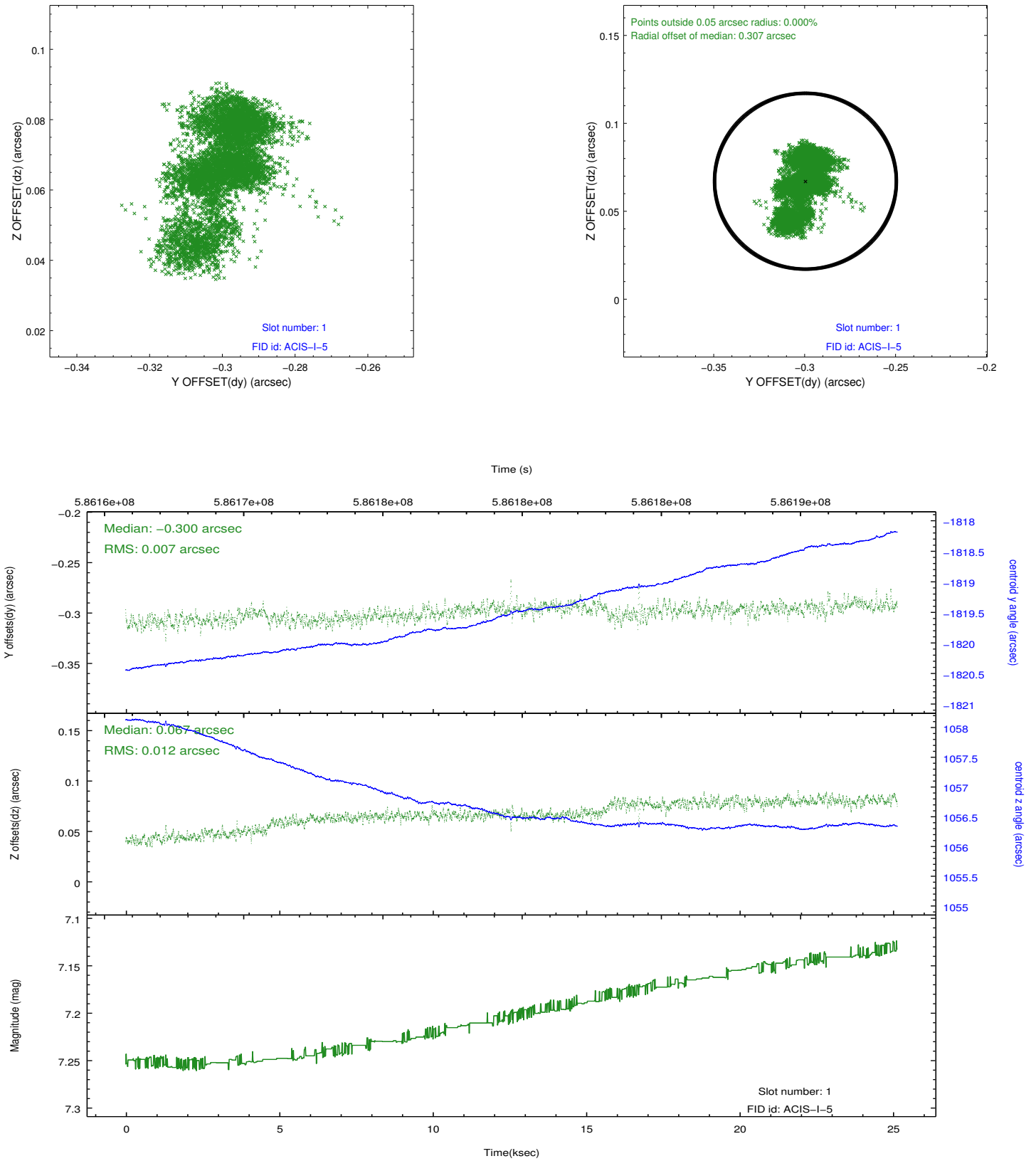


2.5 FID Slots

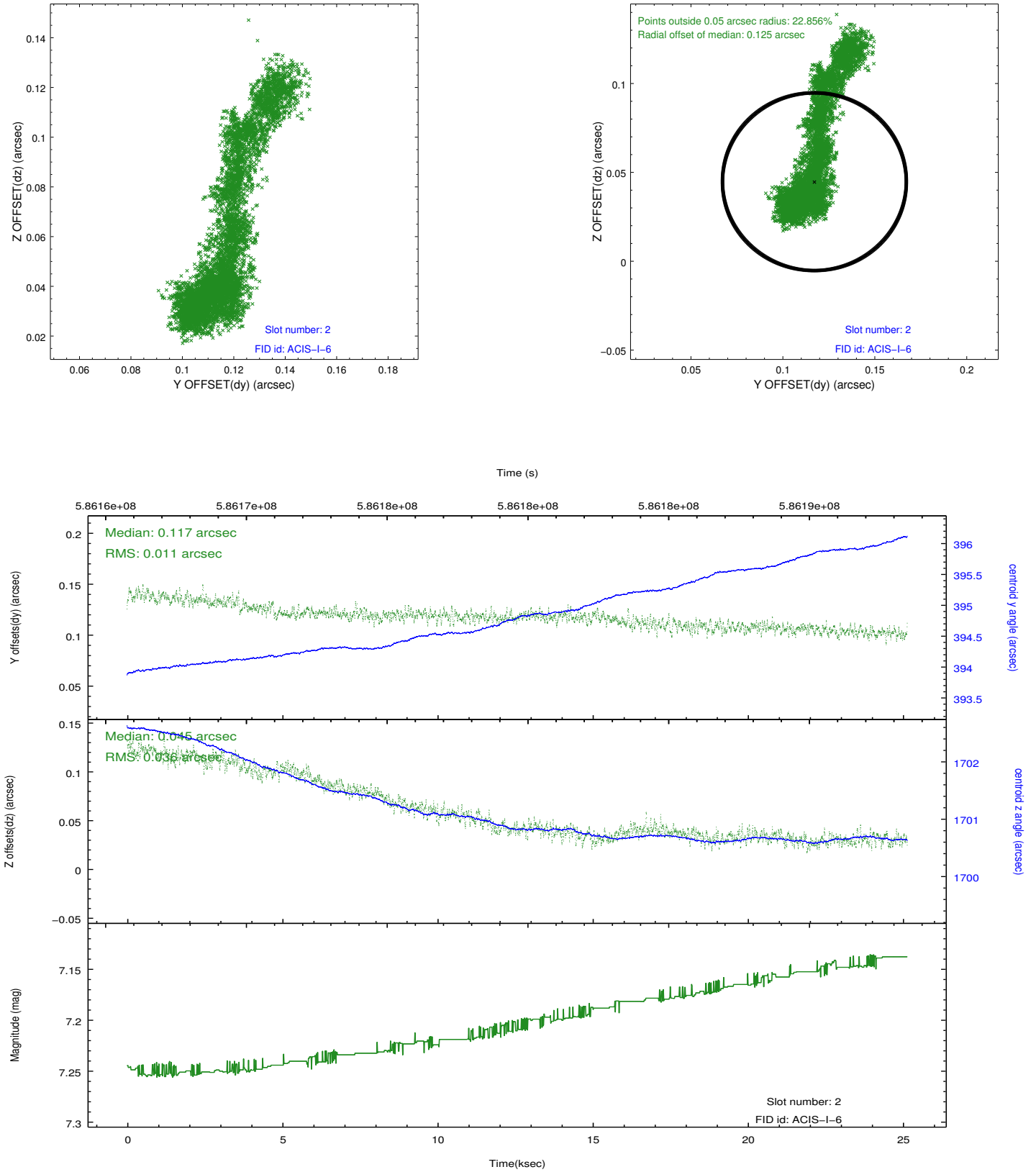
2.5.1 Slot 0



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)	2016.08.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.0995

A.2 Comments

Roll constraint met.