

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 5942 - L2 Version 3
Chandra X-Ray Center

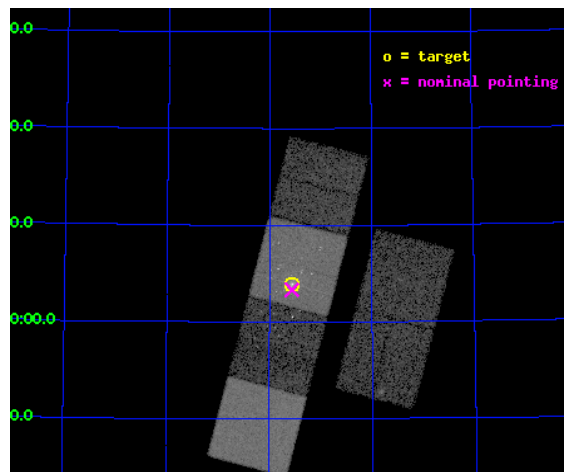
L2 Processing Date : Dec 24 2012

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1 Front

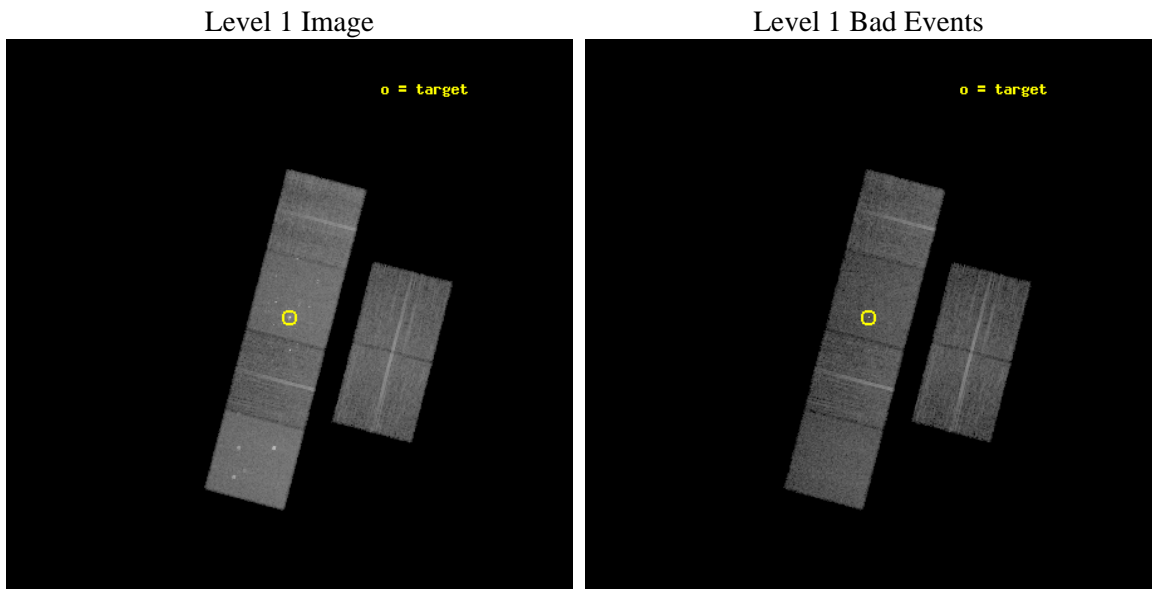
seq_num	600461	Sequence number
obs_id	5942	Observation id
title	An Unprecedented View of a Galaxy's Dynamic X-ray Source Population	
observer	Prof. David Pooley	Principal investigator
object	M81	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	148.888333	Observer's specified target RA [deg]
dec_targ	69.065306	Observer's specified target Dec [deg]
ra_nom	148.89049718123	Nominal RA [deg]
dec_nom	69.055682940086	Nominal Dec [deg]
roll_nom	284.60349266898	Nominal Roll [deg]
revision	3	Processing version of data
ontime	12105.599954903	Sum of GTIs [s]
livetime	11952.311559157	Livetime [s]
ontime2	12105.599954903	Sum of GTIs [s]
ontime3	12105.599954903	Sum of GTIs [s]
ontime5	12105.599954903	Sum of GTIs [s]
ontime6	12105.599954903	Sum of GTIs [s]
ontime7	12105.599954903	Sum of GTIs [s]
ontime8	12105.599954903	Sum of GTIs [s]
l2events	157976	Number of level 2 events



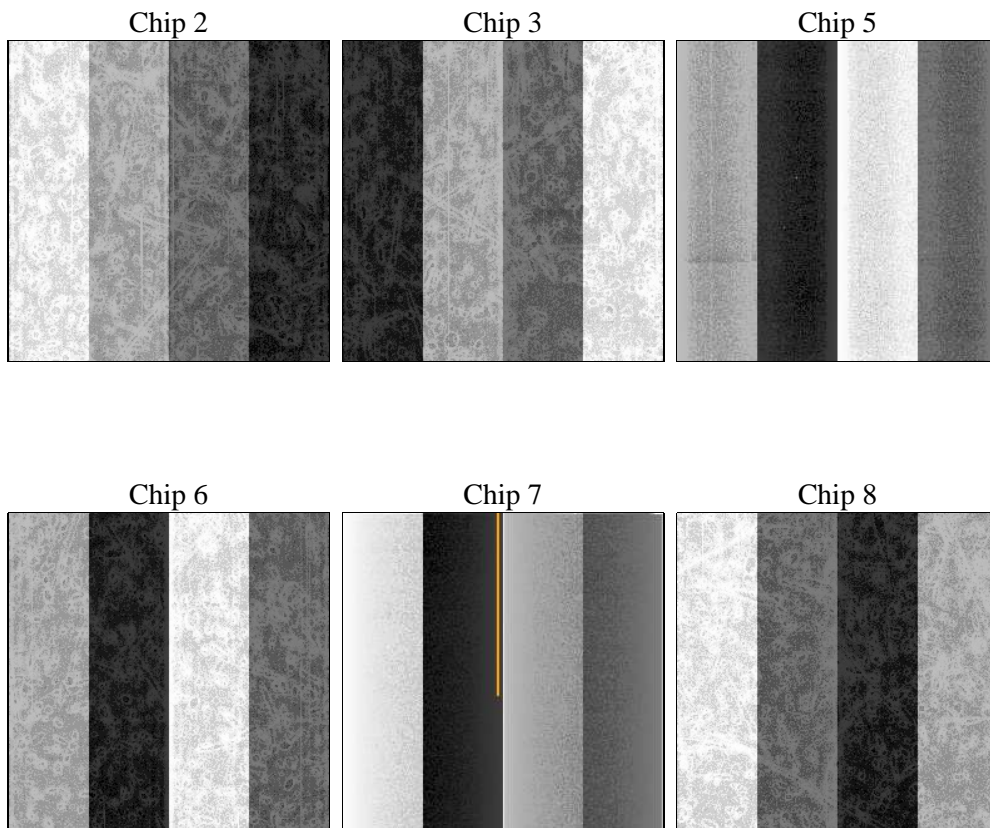
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	12000.000000	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	12105.599954903	Sum of GTIs [s]
caldsver	4.5.5	 	ontime2	12105.599954903	Sum of GTIs [s]
date	2012-12-24T14:12:36	Date and time of file creation	ontime3	12105.599954903	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	12105.599954903	Sum of GTIs [s]
			ontime6	12105.599954903	Sum of GTIs [s]
			ontime7	12105.599954903	Sum of GTIs [s]
			ontime8	12105.599954903	Sum of GTIs [s]
			l1events	657236	Number of level 1 events

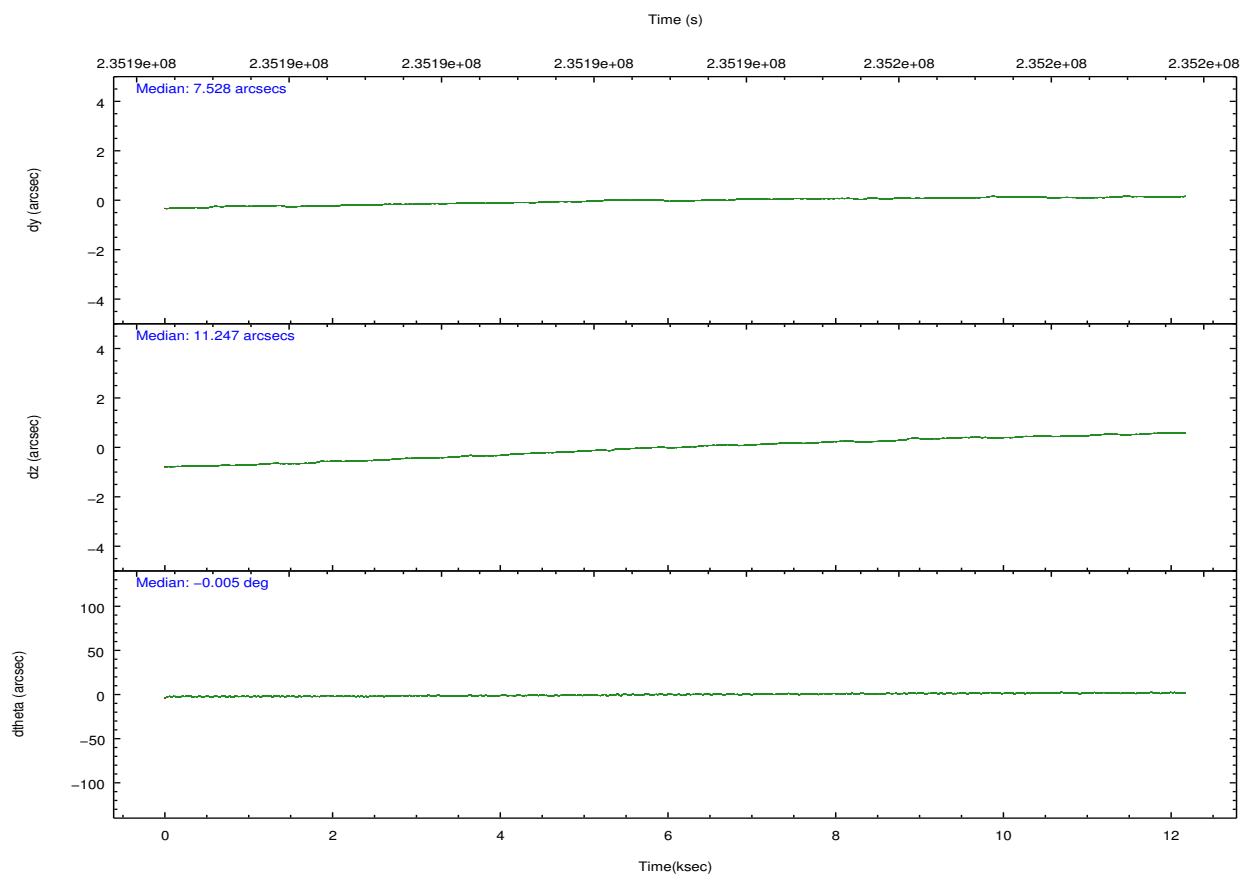
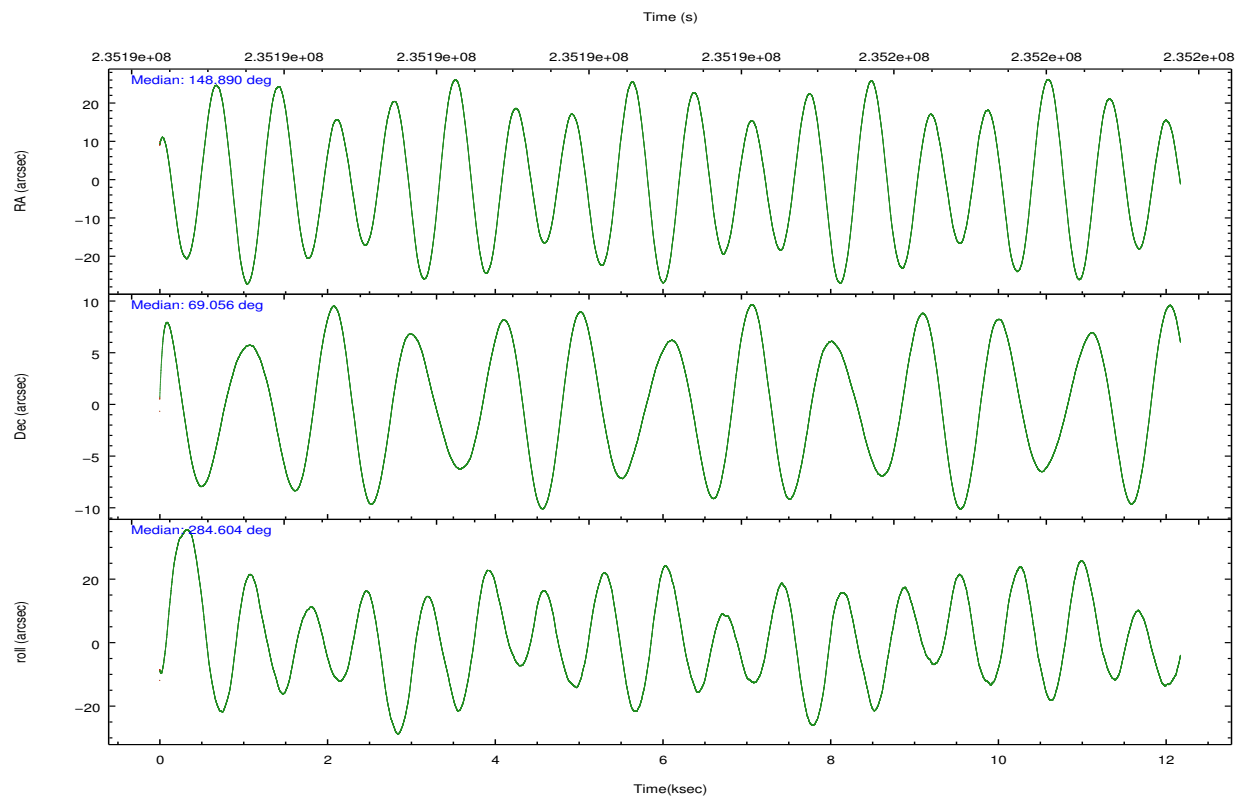
2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	92158	84676	137604	91676	134559	116563	grade 0 events	5023	4593	8477	5808	7058	8663
rejected events	81026	74058	72756	78825	74821	89759		5%	5%	6%	6%	5%	7%
rejected %	87%	87%	52%	85%	55%	77%	grade 1 events	59	57	249	65	220	83
								0%	0%	0%	0%	0%	0%
							grade 2 events	2237	2065	19082	2601	12292	5777
								2%	2%	13%	2%	9%	4%
							grade 3 events	1031	1074	2437	1120	5590	2962
								1%	1%	1%	1%	4%	2%
							grade 4 events	1063	1022	2320	1091	5489	2878
								1%	1%	1%	1%	4%	2%
							grade 5 events	3632	4031	9960	4234	12288	5598
								3%	4%	7%	4%	9%	4%
							grade 6 events	1783	1871	32560	2239	29340	6570
								1%	2%	23%	2%	21%	5%
							grade 7 events	77330	69963	62519	74518	62282	84032
								83%	82%	45%	81%	46%	72%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	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	148.836175	148.8904971812316	Subarray requested	NONE	NONE
[deg] Pointing Dec	69.074779	69.05568294008553	Alternating exposures requested	N	N
[deg] Pointing Roll	284.497608	284.6034926689808	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	235187148.184000	235186113.64656			
Observation start date	2005-06-15T01:44:44	2005-06-15T01:28:33			
[s] Observation end time (MET)	235199148.184000	235200020.3347			
Observation end date	2005-06-15T05:04:44	2005-06-15T05:20:20			
Read mode	TIMED	TIMED			

2.3 Aspect

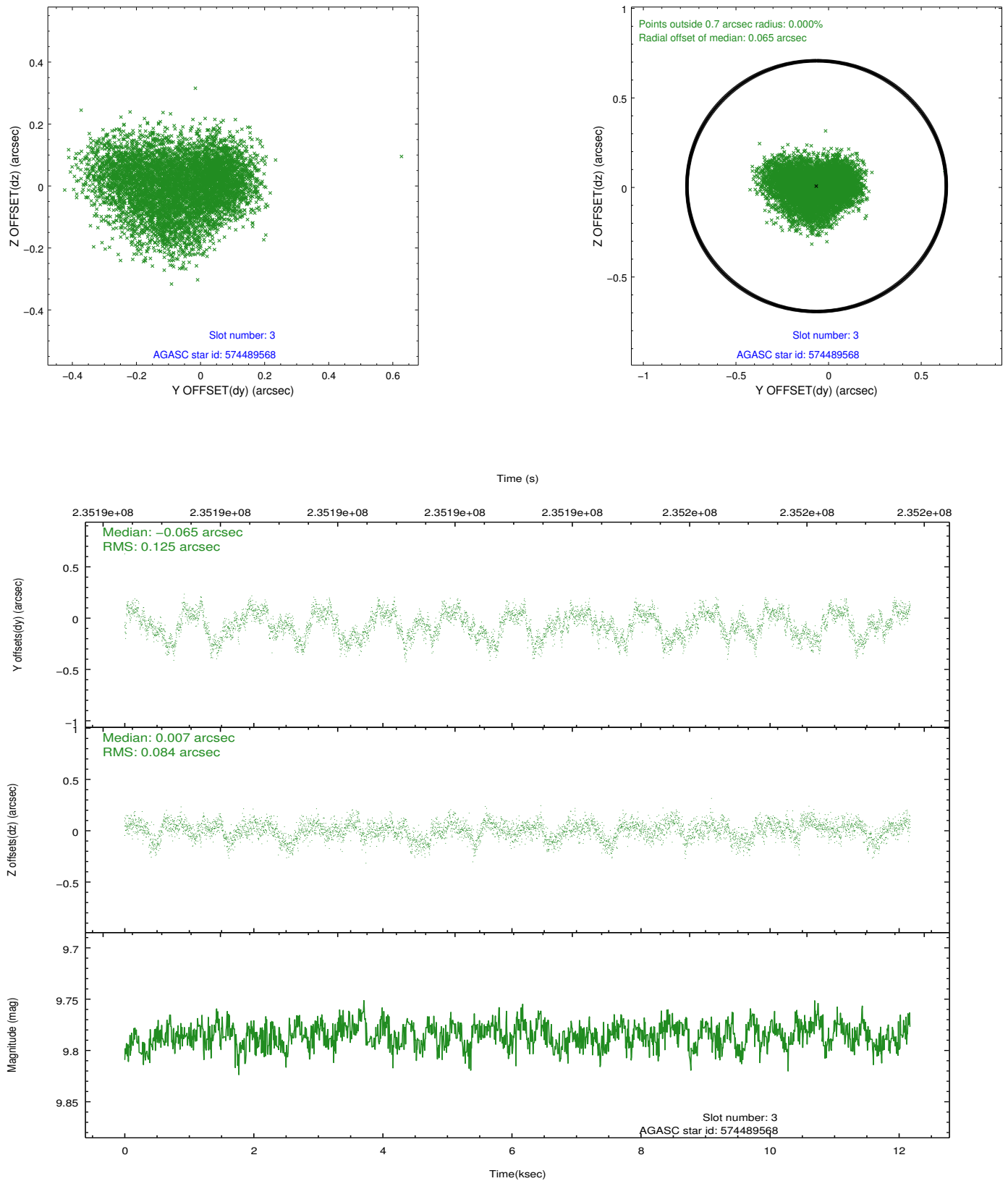


Slot Statistics

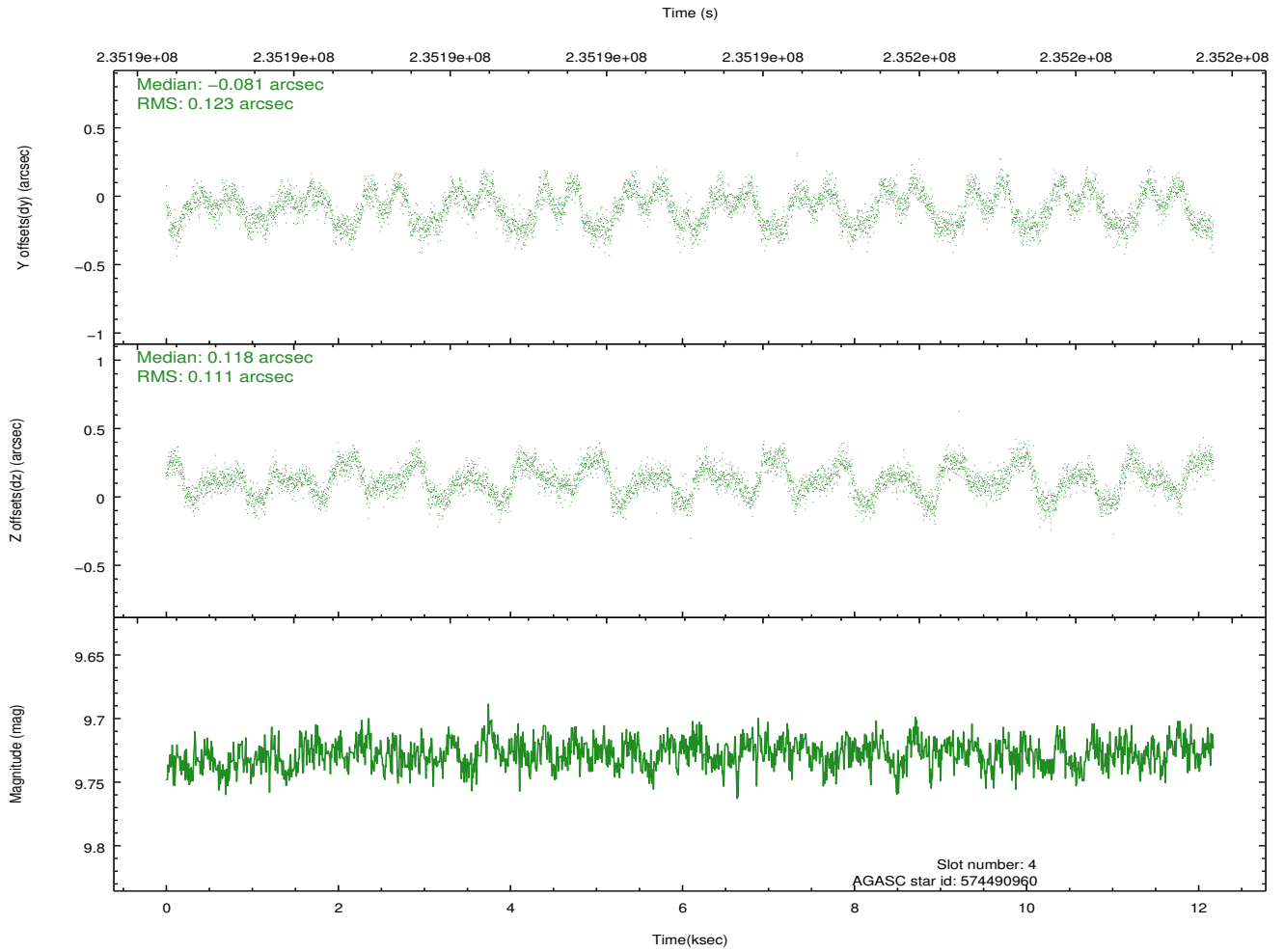
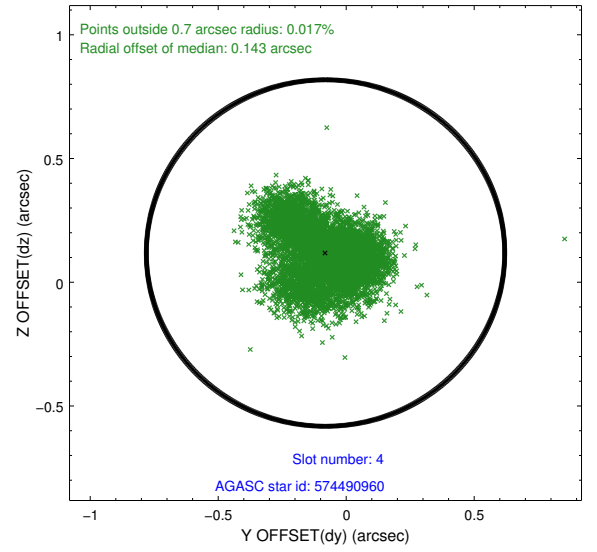
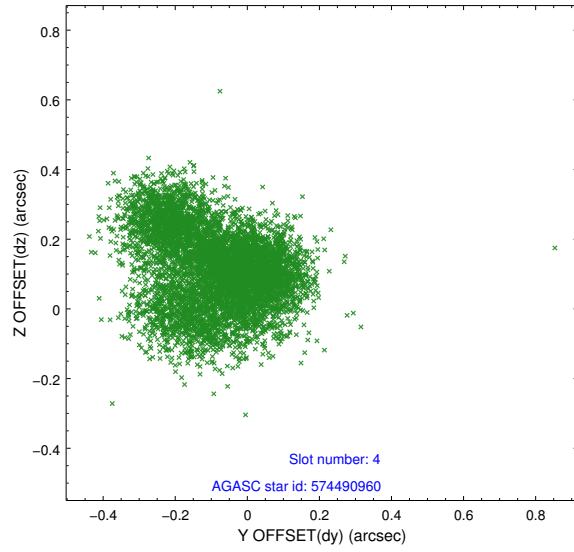
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.18	2970	0.059	-0.090	0.016	0.030	0.000000	0.000000	935.82	-1728.20
1	FID	ACIS-S-5	7.23	2969	-0.077	0.035	0.013	0.018	0.000000	0.000000	-1813.06	169.08
2	FID	ACIS-S-6	7.35	2970	0.001	0.068	0.017	0.025	0.000000	0.000000	400.90	813.52
3	GUIDE	574489568	9.79	5935	-0.065	0.007	0.165	0.250	147.223974	69.438157	-1802.34	-1638.88
4	GUIDE	574490960	9.73	5931	-0.081	0.118	0.182	0.272	148.185918	69.658768	-2243.08	-260.46
5	GUIDE	574491280	9.34	5936	-0.119	-0.125	0.111	0.177	148.611567	69.450135	-1379.45	62.94
6	GUIDE	574497600	10.47	5874	0.107	0.128	0.271	0.446	147.824120	68.451903	1825.82	-1853.98
7	GUIDE	574496312	10.25	5918	0.174	-0.106	0.251	0.419	149.547505	68.718299	1470.87	579.77

2.4 Star Slots

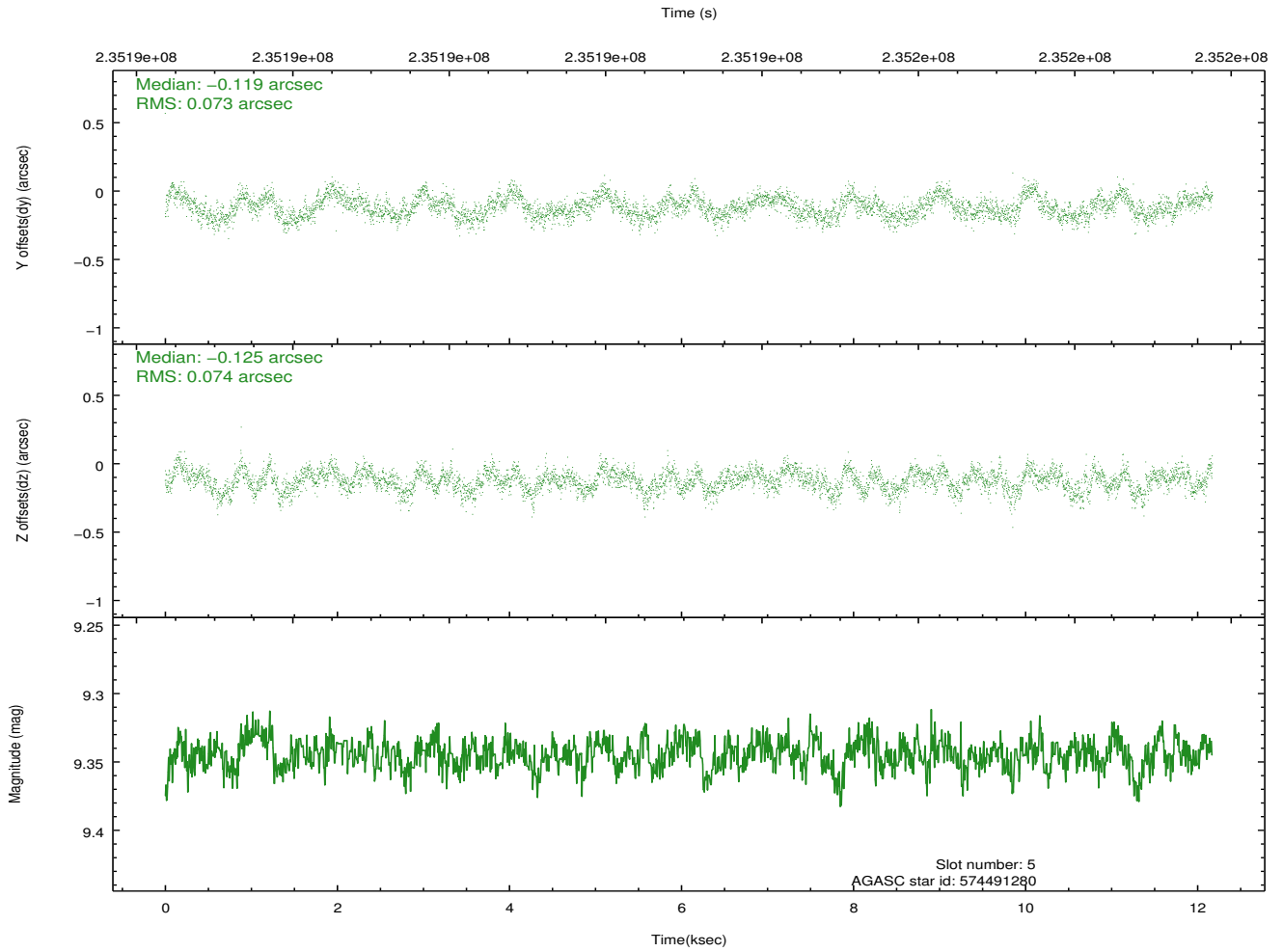
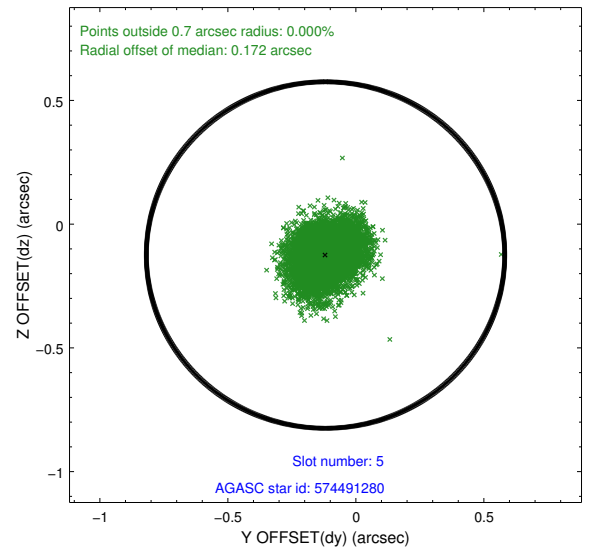
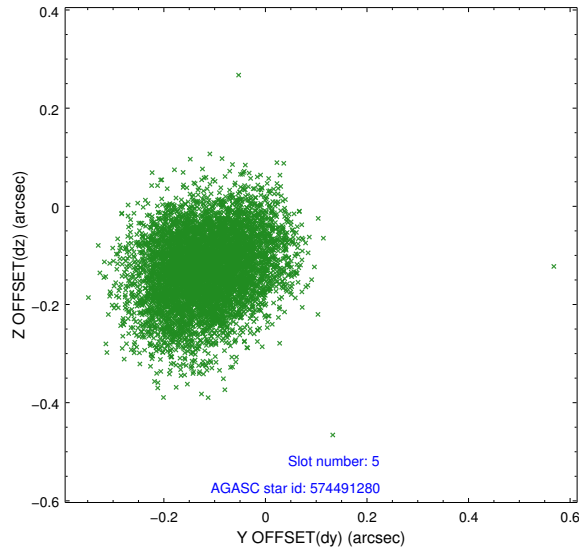
2.4.1 Slot 3



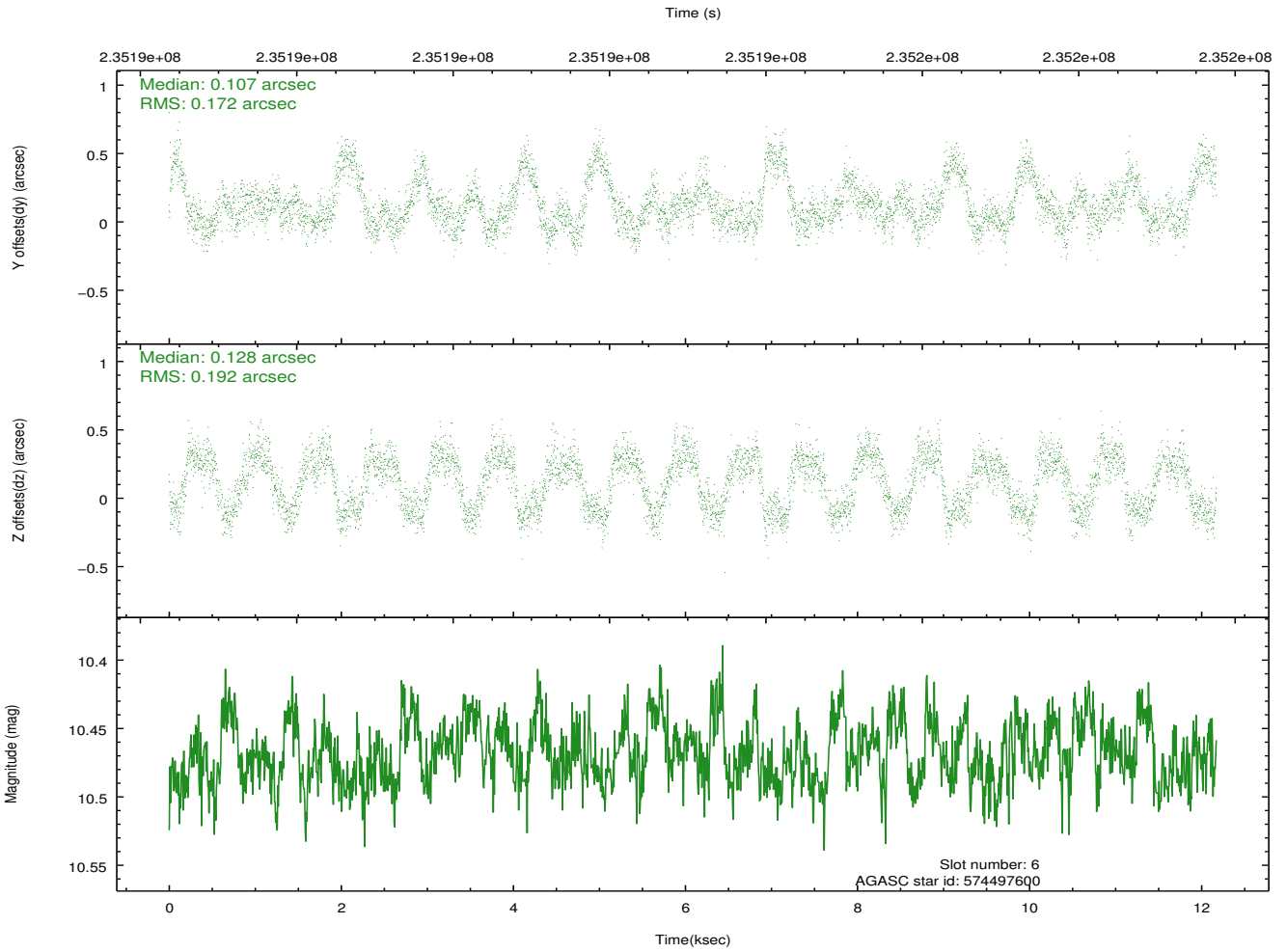
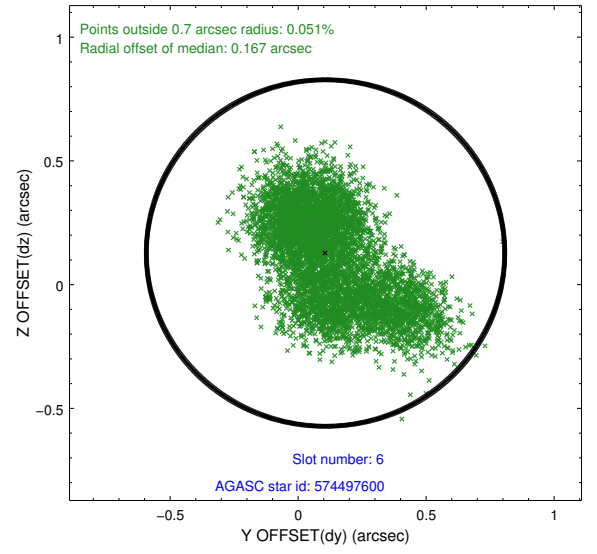
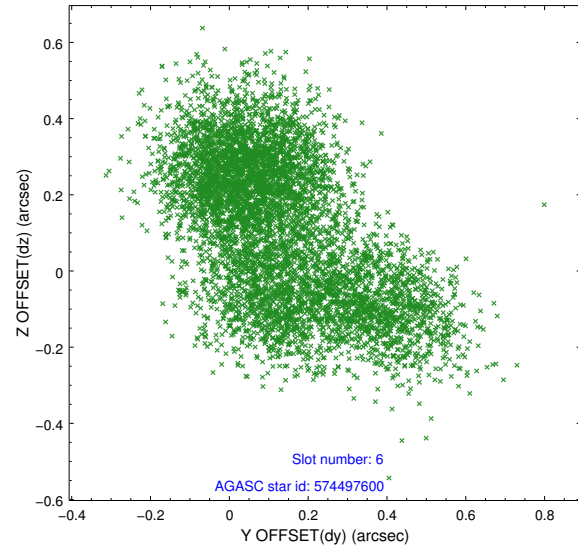
2.4.2 Slot 4



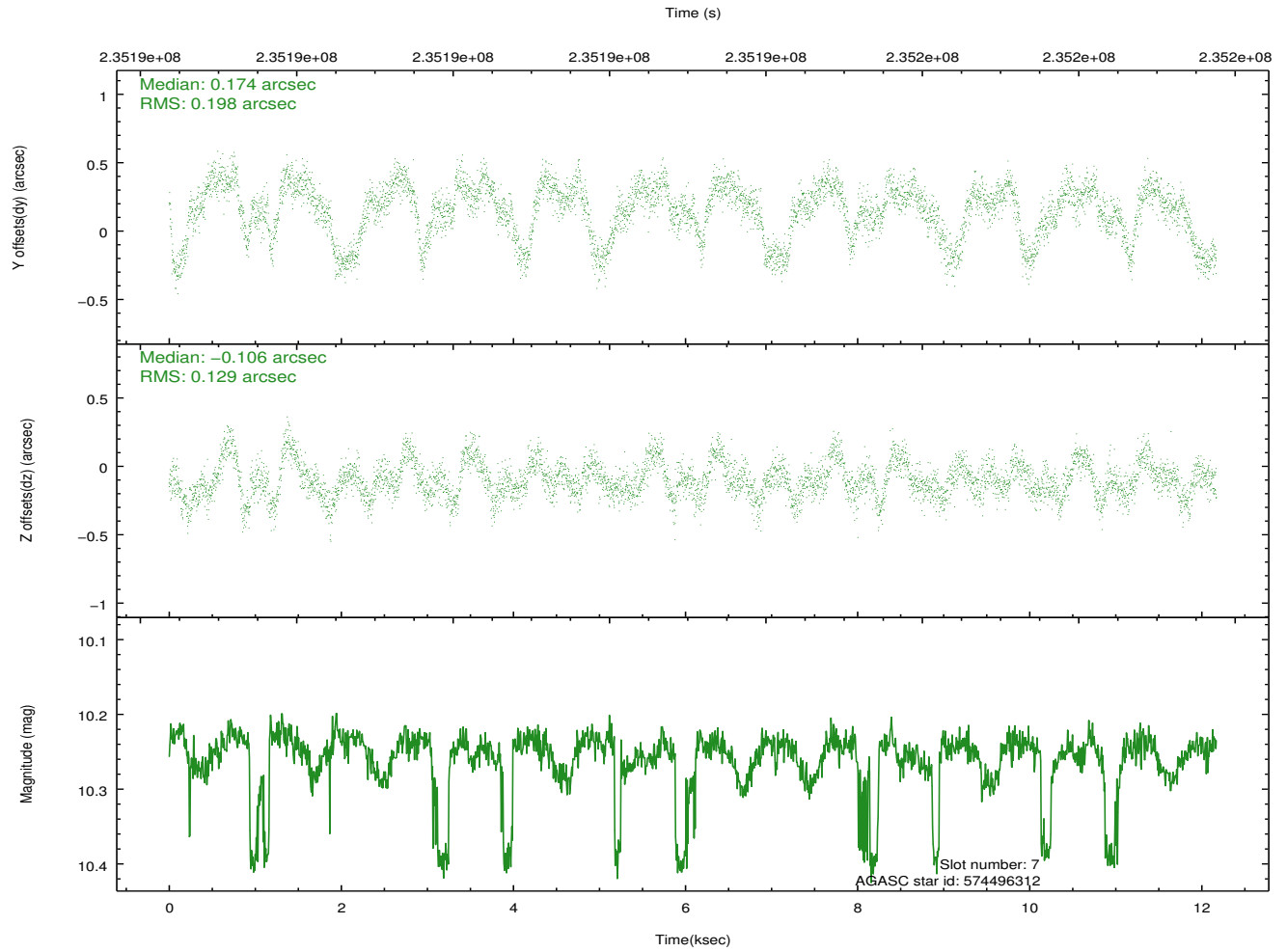
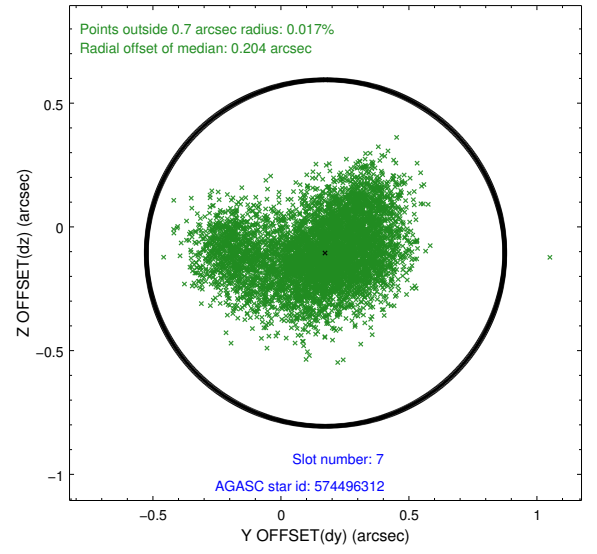
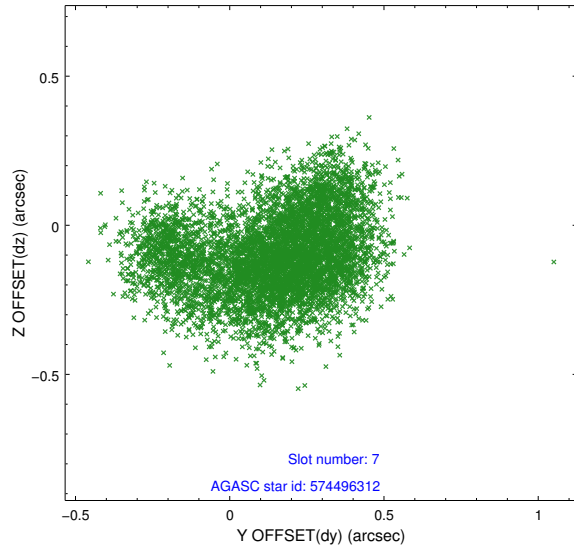
2.4.3 Slot 5



2.4.4 Slot 6

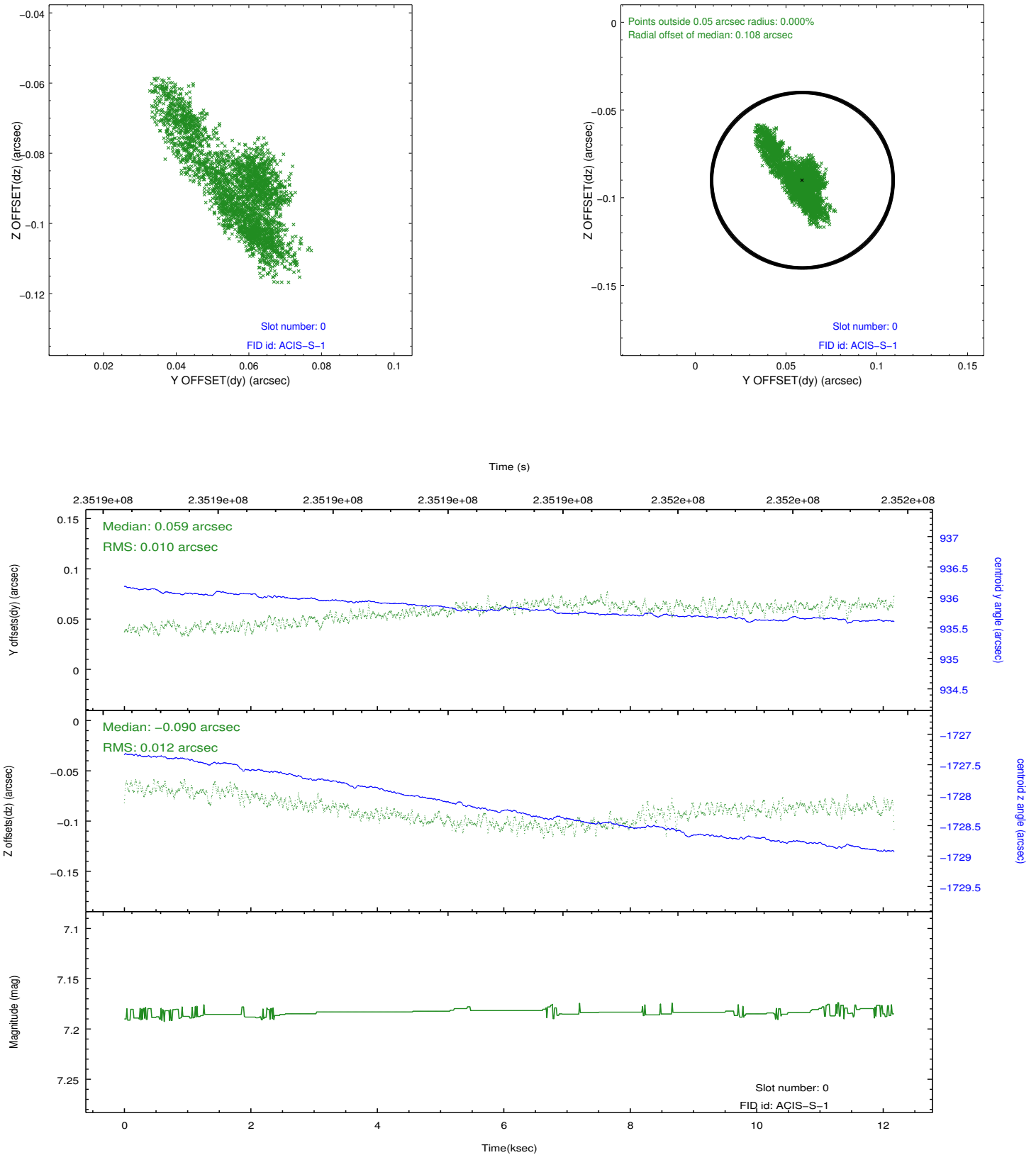


2.4.5 Slot 7

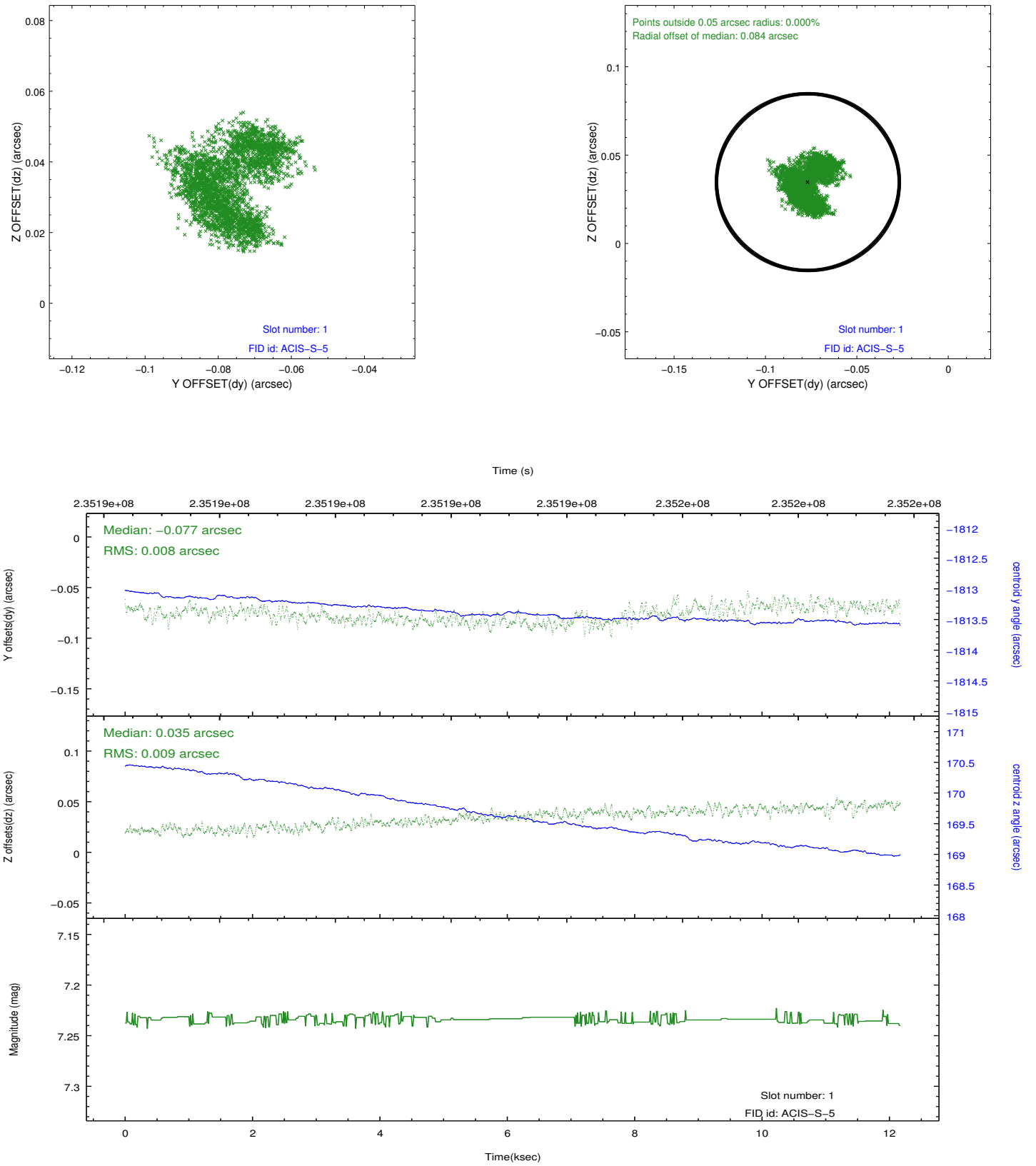


2.5 FID Slots

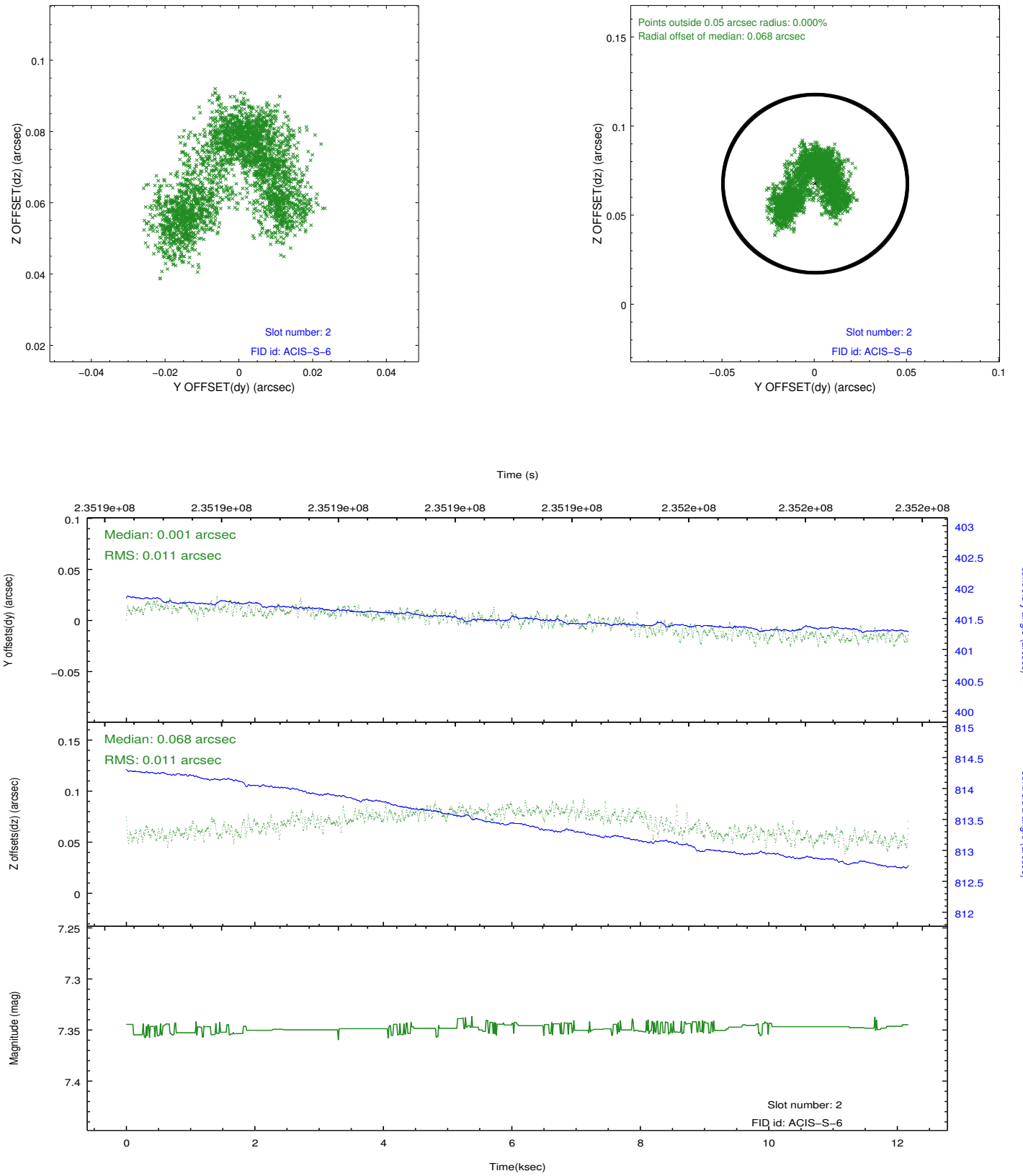
2.5.1 Slot 0



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)	2013.01.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	12.10559

A.2 Comments

Roll preference met. Monitor constraint met.