

V&V Reference Report

L2 ASCDS Version : 10.2.4

Observation 15871 - L2 Version 1
Chandra X-Ray Center

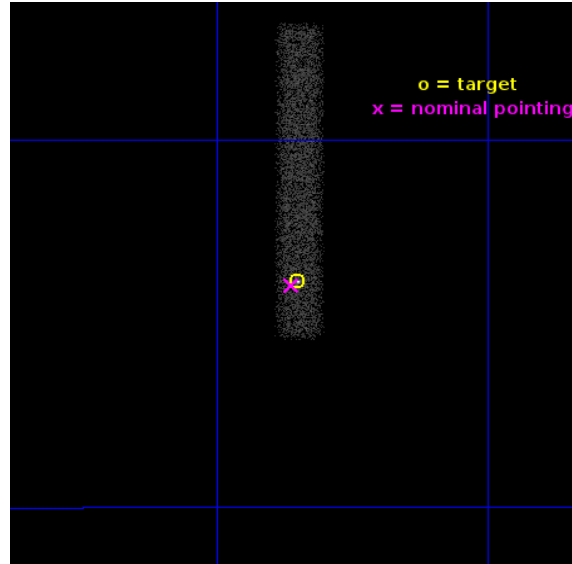
L2 Processing Date : Sep 8 2014

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

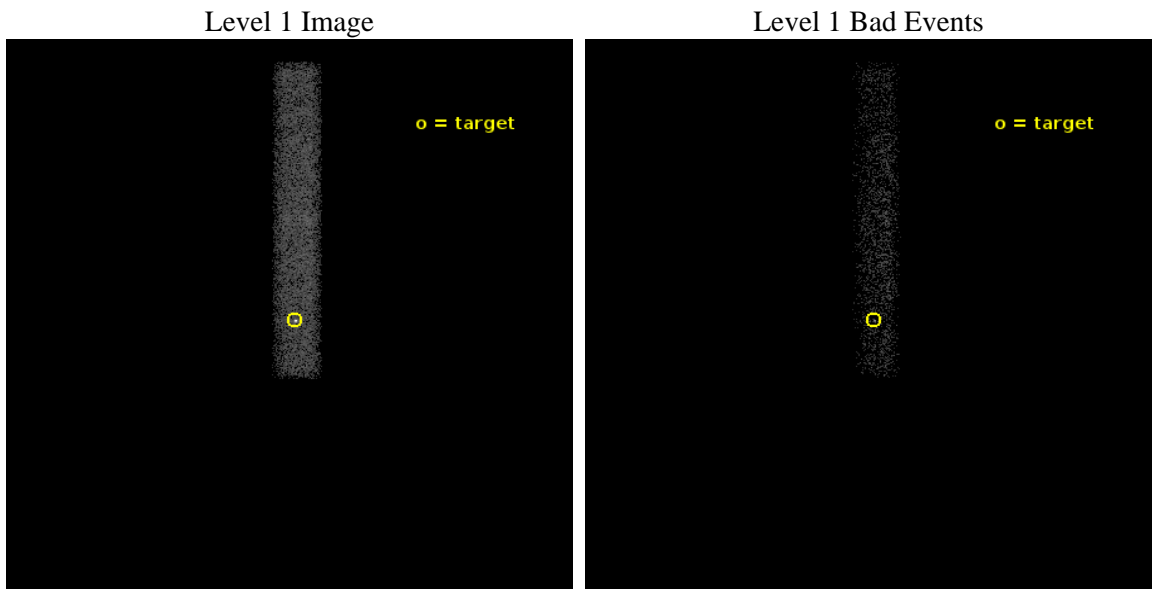
seq_num	502104	Sequence number
obs_id	15871	Observation id
title	Unveiling the nature of cyclical behavior in the period evolution of the Anomalous X ray Pulsar XTE J1810-197	Proposal title
observer	Dr Federico Bernardini	Principal investigator
object	XTEJ 1810-197	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	272.462917	Observer's specified target RA [deg]
dec_targ	-19.731083	Observer's specified target Dec [deg]
ra_nom	272.46568615581	Nominal RA [deg]
dec_nom	-19.732802845265	Nominal Dec [deg]
roll_nom	270.0338930522	Nominal Roll [deg]
revision	1	Processing version of data
ontime	20068.64918375	Sum of GTIs [s]
livetime	18201.205499501	Livetime [s]
ontime7	20068.64918375	Sum of GTIs [s]
l2events	12641	Number of level 2 events



2 OBI

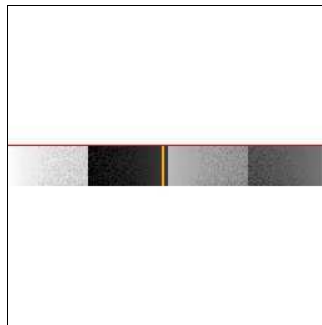
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.2.4	Processing system revision	ontime	20068.64918375	Sum of GTIs [s]
caldsver	4.6.3	 	ontime7	20068.64918375	Sum of GTIs [s]
date	2014-09-08T18:05:23	Date and time of file creation	l1events	22462	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

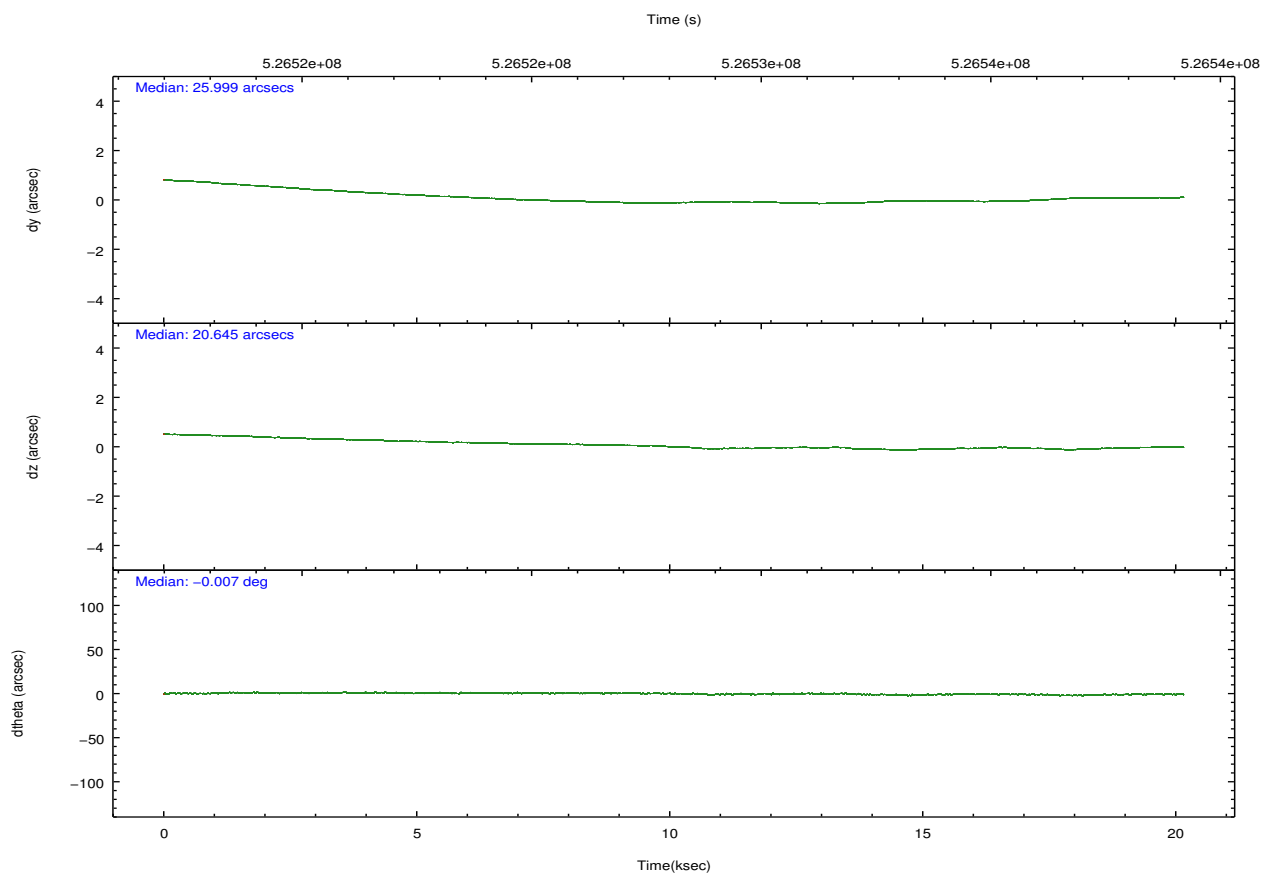
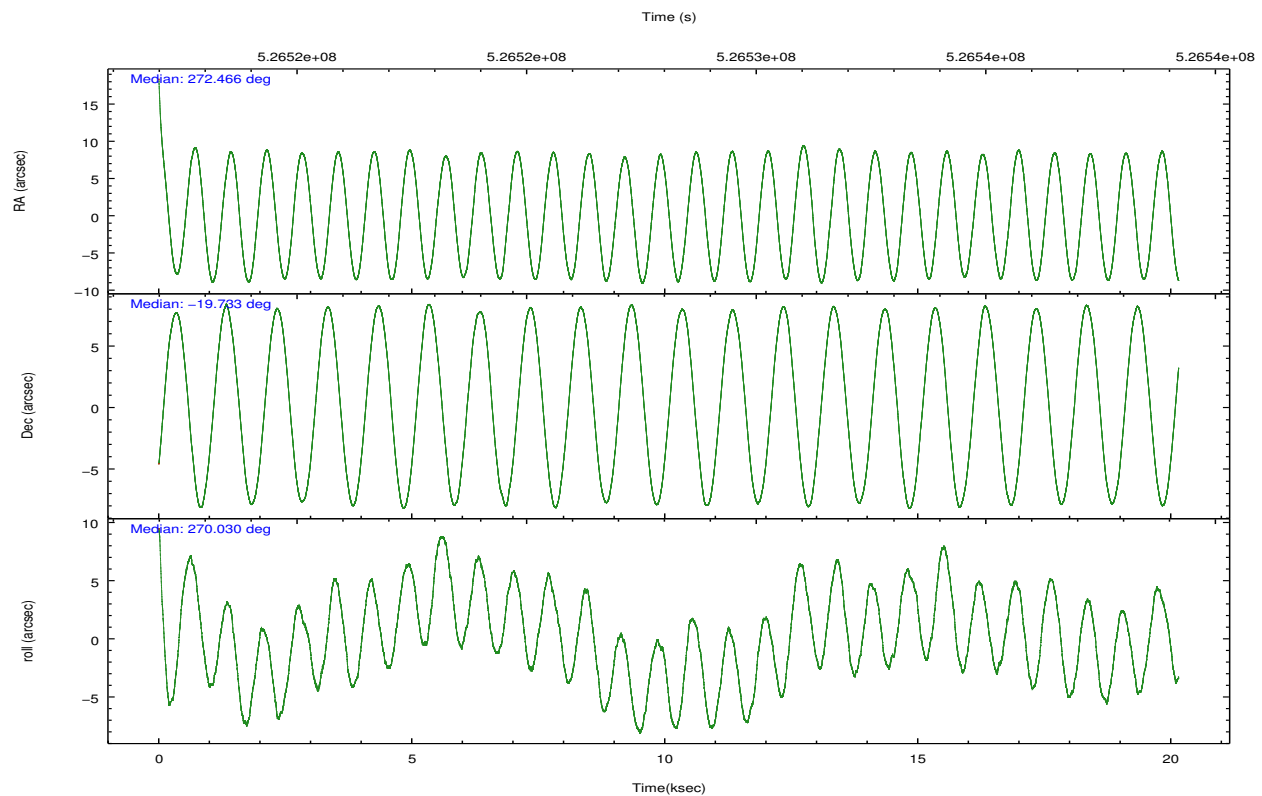
	ccd 7
level 1 events	22462
rejected events	9399
rejected %	41%

	ccd 7
grade 0 events	1958
	8%
grade 1 events	28
	0%
grade 2 events	2894
	12%
grade 3 events	1686
	7%
grade 4 events	1685
	7%
grade 5 events	1920
	8%
grade 6 events	4840
	21%
grade 7 events	7451
	33%

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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	272.450756	272.4656861558087	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-19.709220	-19.73280284526525	Subarray start row	449	449
[deg] Pointing Roll	269.872225	270.0338930521955	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)	526518174.184000	526517202.56147			
Observation start date	2014-09-07T23:01:47	2014-09-07T22:46:42			
[s] Observation end time (MET)	526538174.184000	526538940.25017			
Observation end date	2014-09-08T04:35:07	2014-09-08T04:49:00			
Read mode	TIMED	TIMED			

2.3 Aspect

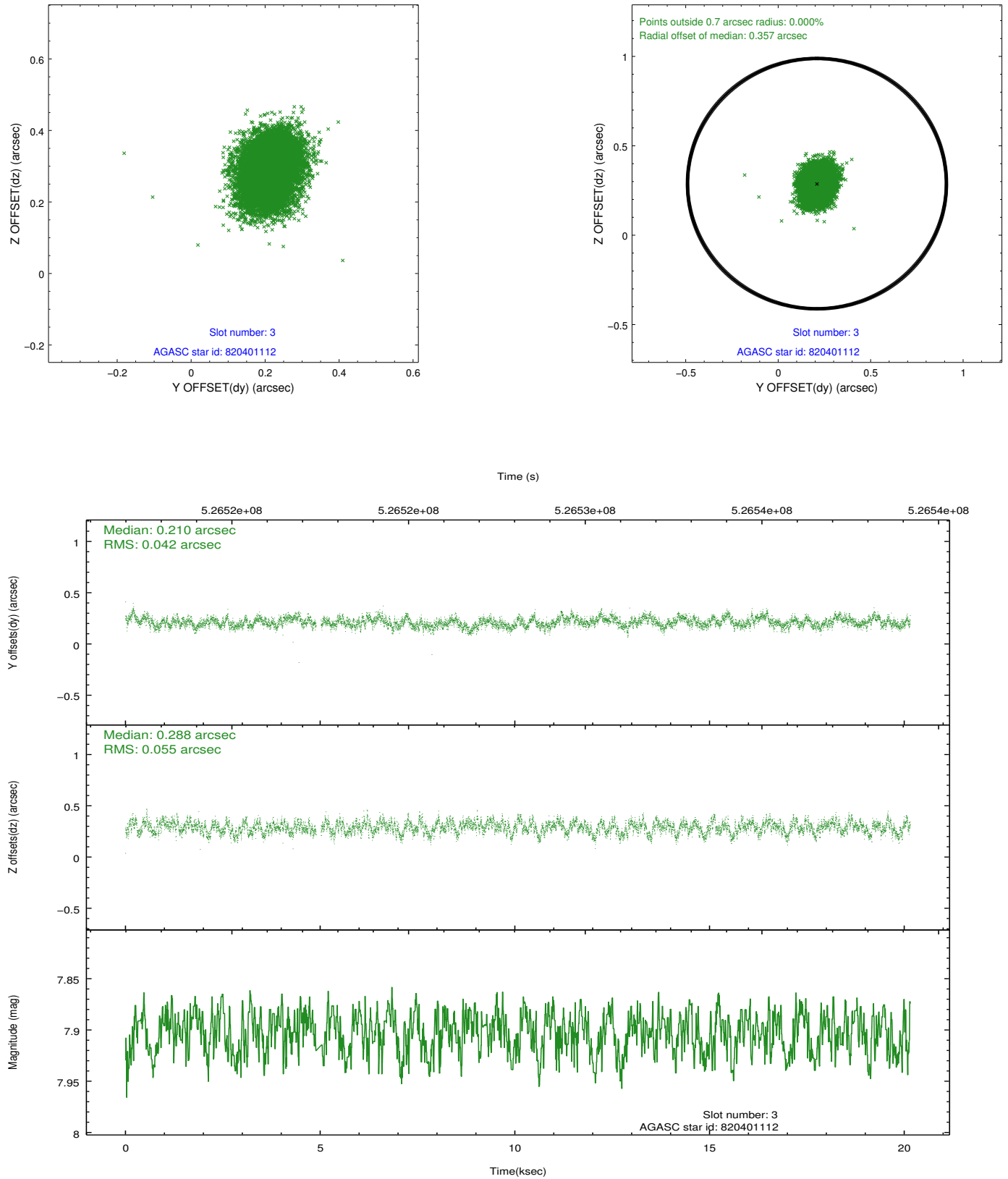


Slot Statistics

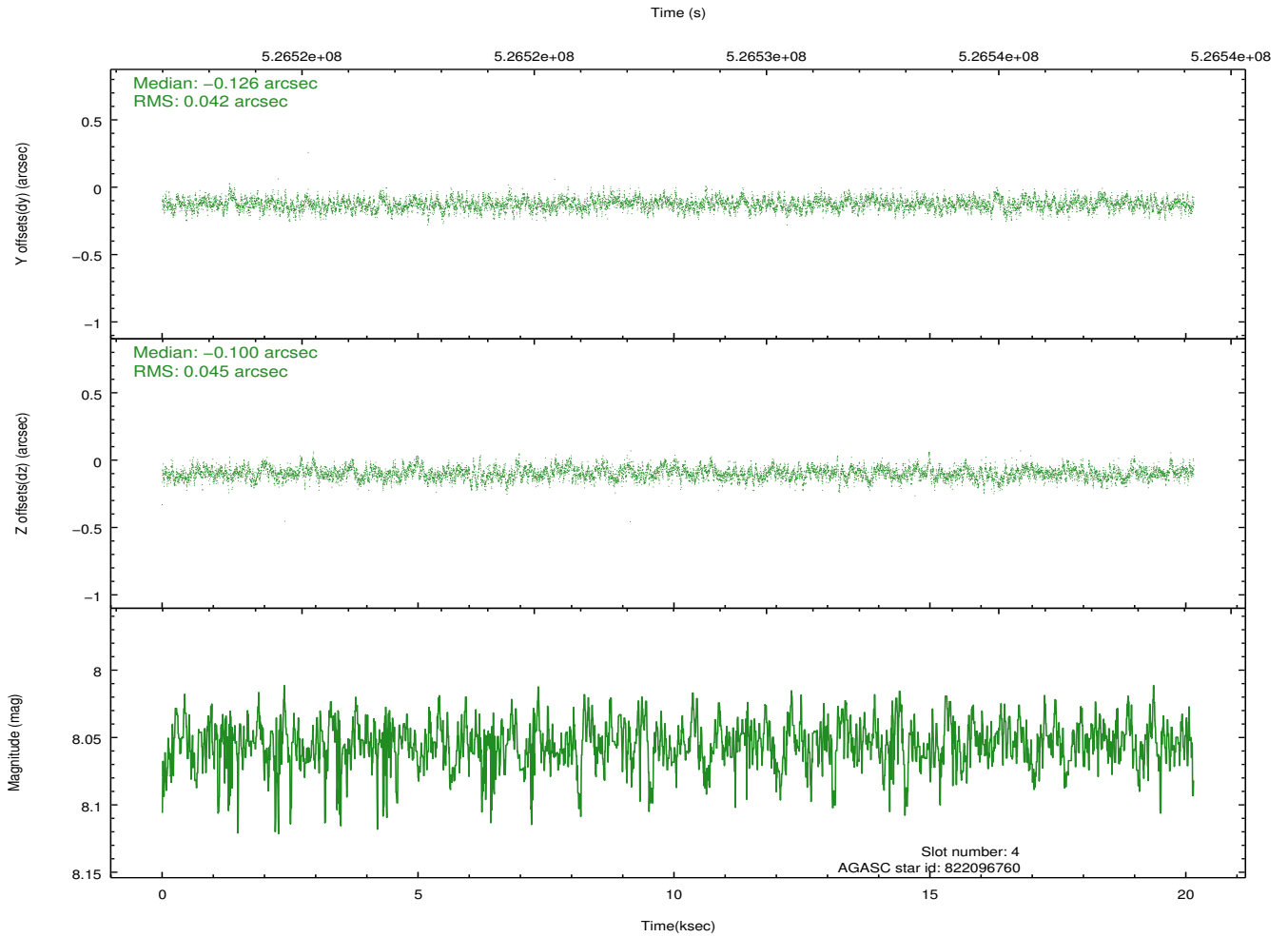
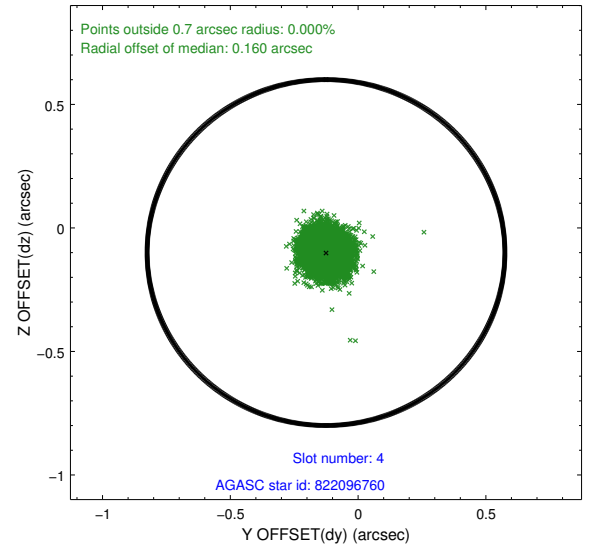
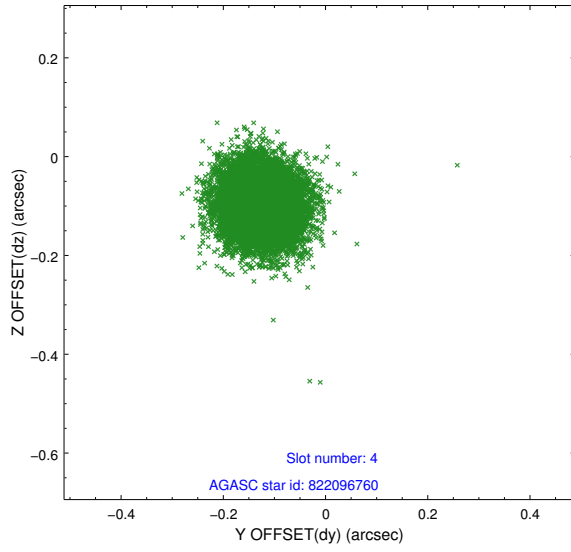
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.08	4915	-0.027	-0.040	0.013	0.030	0.000000	0.000000	916.68	-1737.86
1	FID	ACIS-S-4	7.09	4916	0.290	0.044	0.007	0.011	0.000000	0.000000	2134.45	166.22
2	FID	ACIS-S-5	7.12	4916	-0.290	0.007	0.012	0.034	0.000000	0.000000	-1832.28	159.88
3	GUIDE	820401112	7.90	9769	0.210	0.288	0.074	0.118	271.884761	-19.293988	-1486.89	-1926.19
4	GUIDE	822096760	8.05	9824	-0.126	-0.100	0.065	0.106	272.830526	-19.438690	-975.61	1286.81
5	GUIDE	822102416	7.49	9831	0.140	-0.021	0.073	0.120	272.173216	-20.087156	1363.68	-935.04
6	GUIDE	822087128	7.91	9829	-0.117	-0.236	0.070	0.113	272.956072	-20.371006	2381.26	1710.73
7	GUIDE	822085152	8.98	9824	-0.106	0.071	0.102	0.170	272.974056	-19.057083	-2348.88	1775.67

2.4 Star Slots

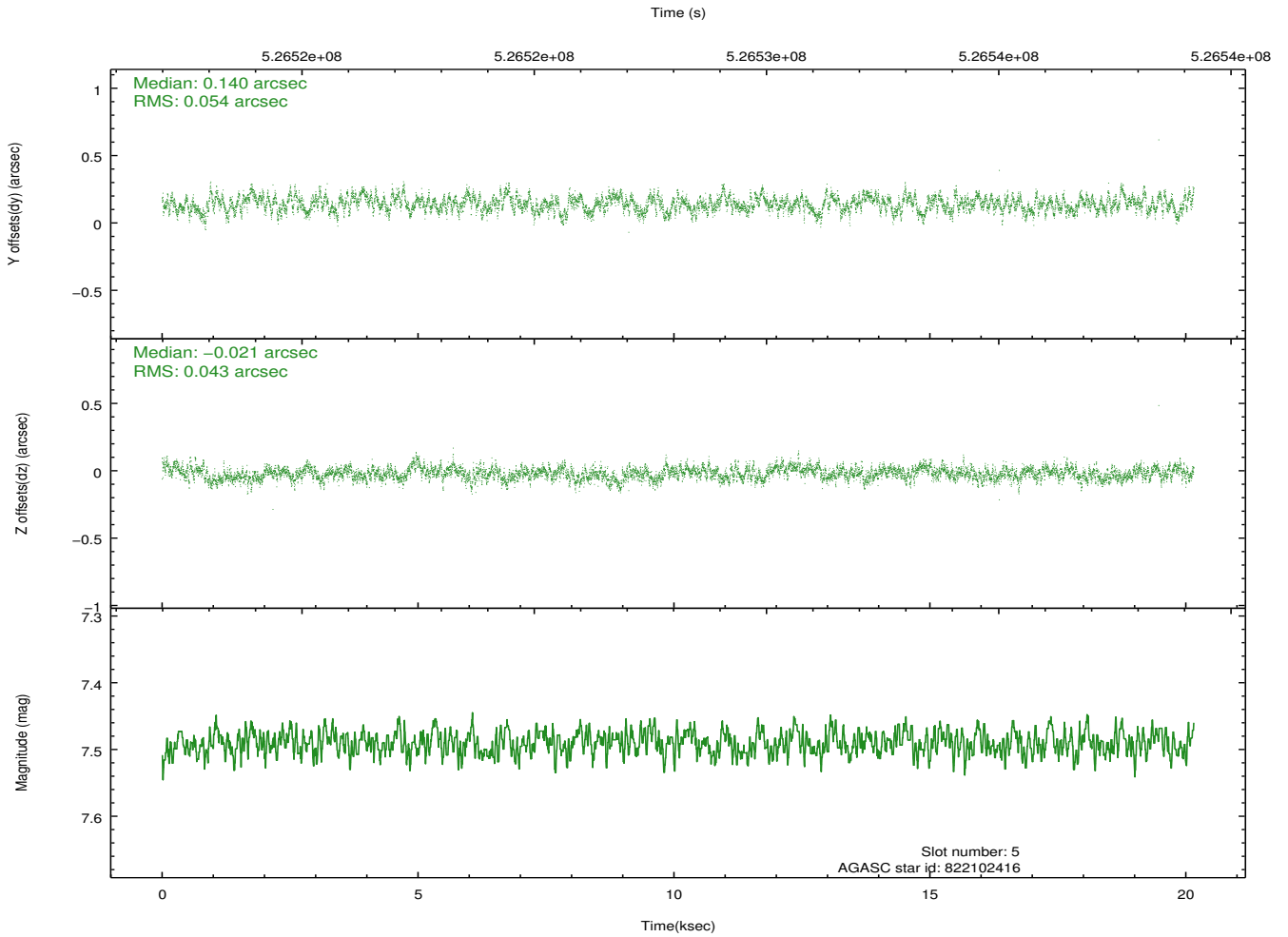
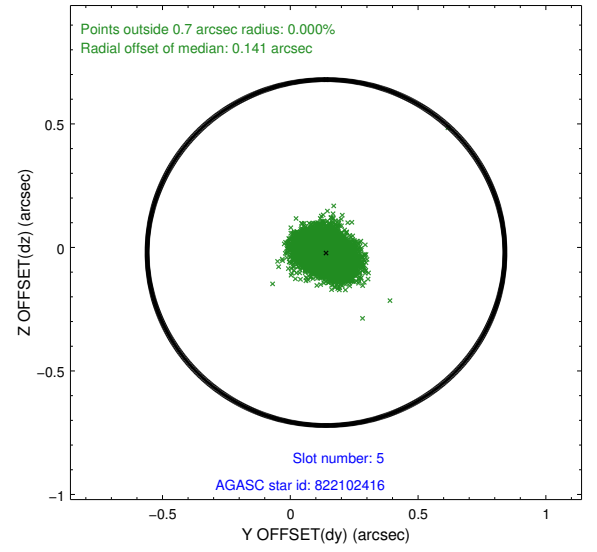
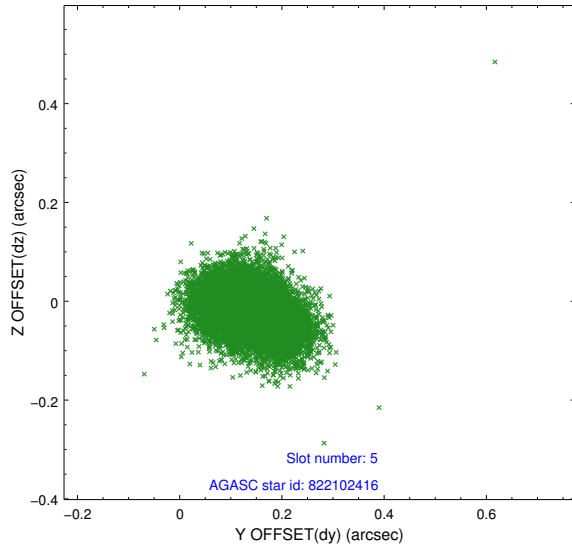
2.4.1 Slot 3



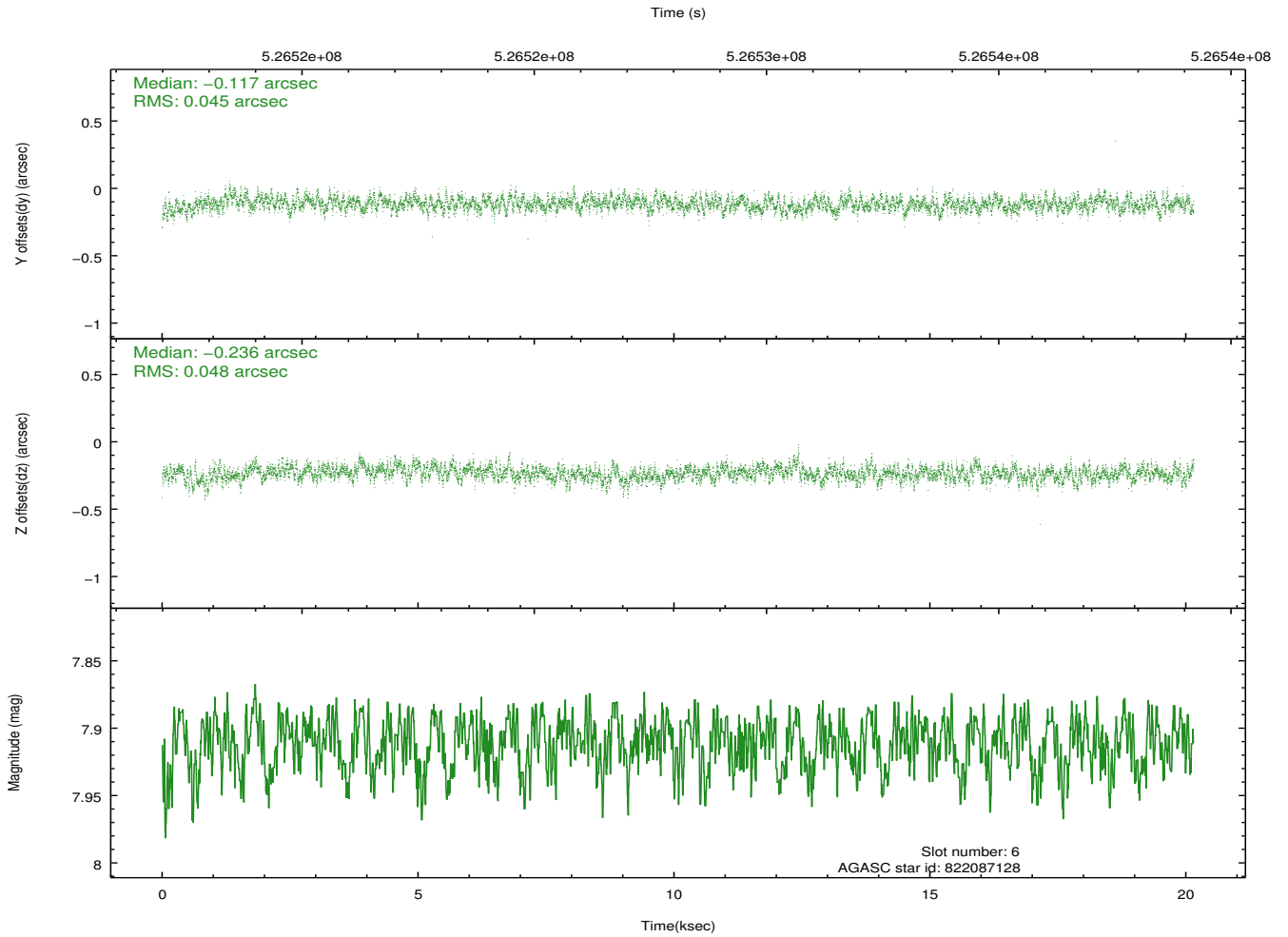
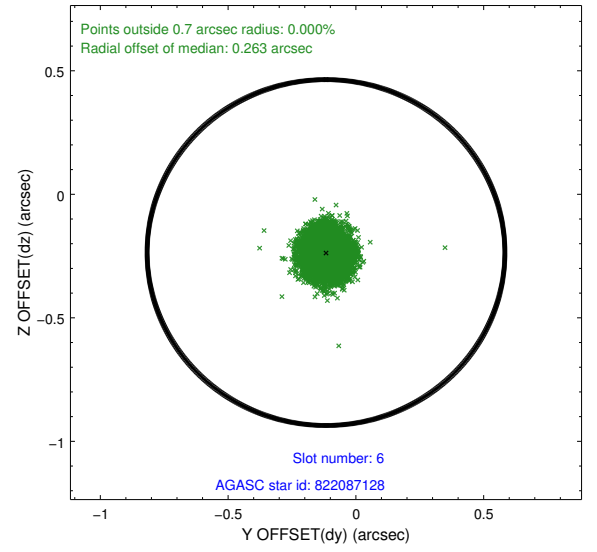
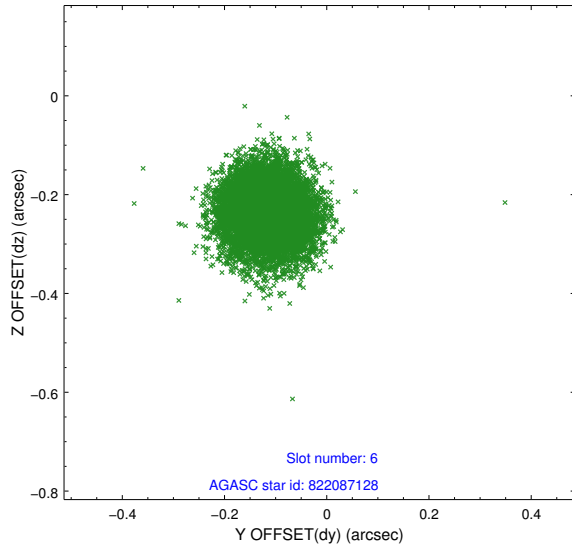
2.4.2 Slot 4



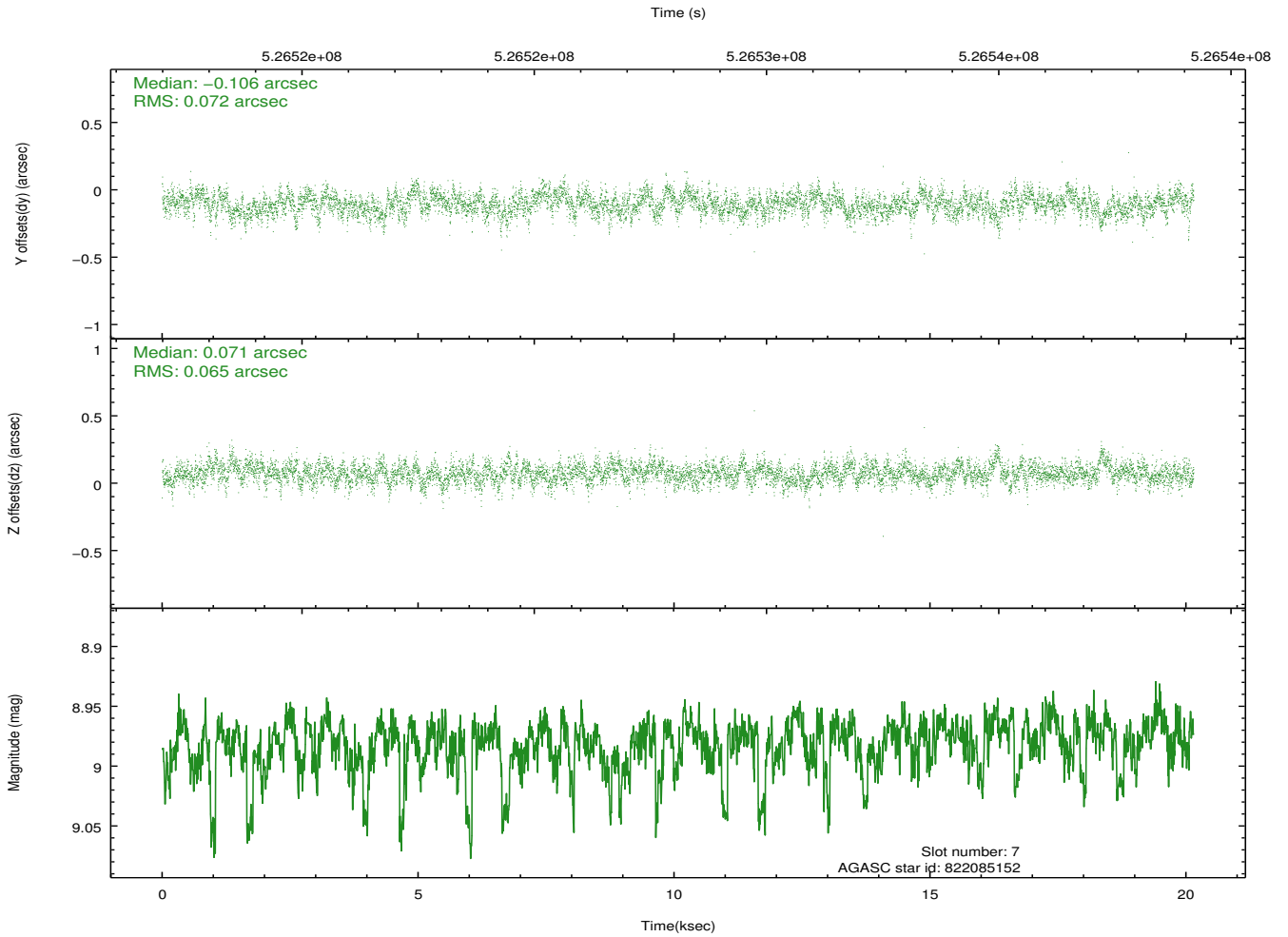
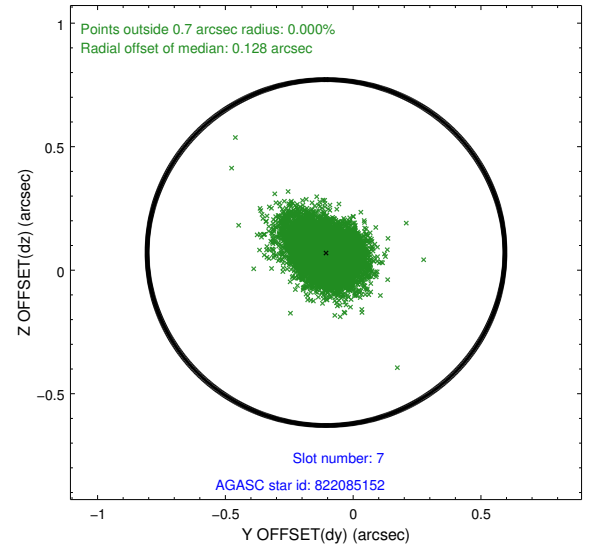
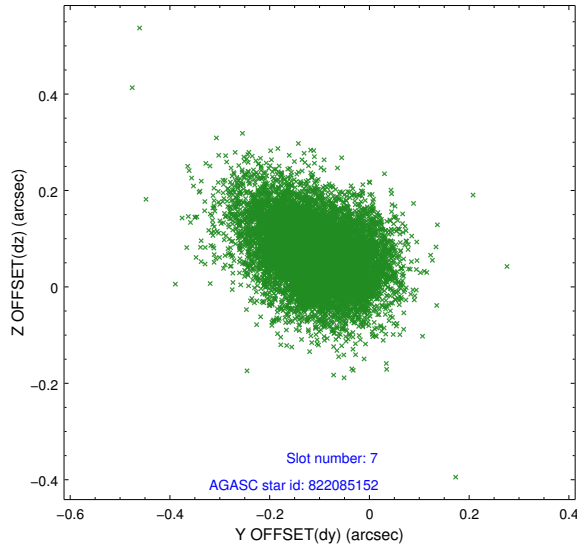
2.4.3 Slot 5



2.4.4 Slot 6

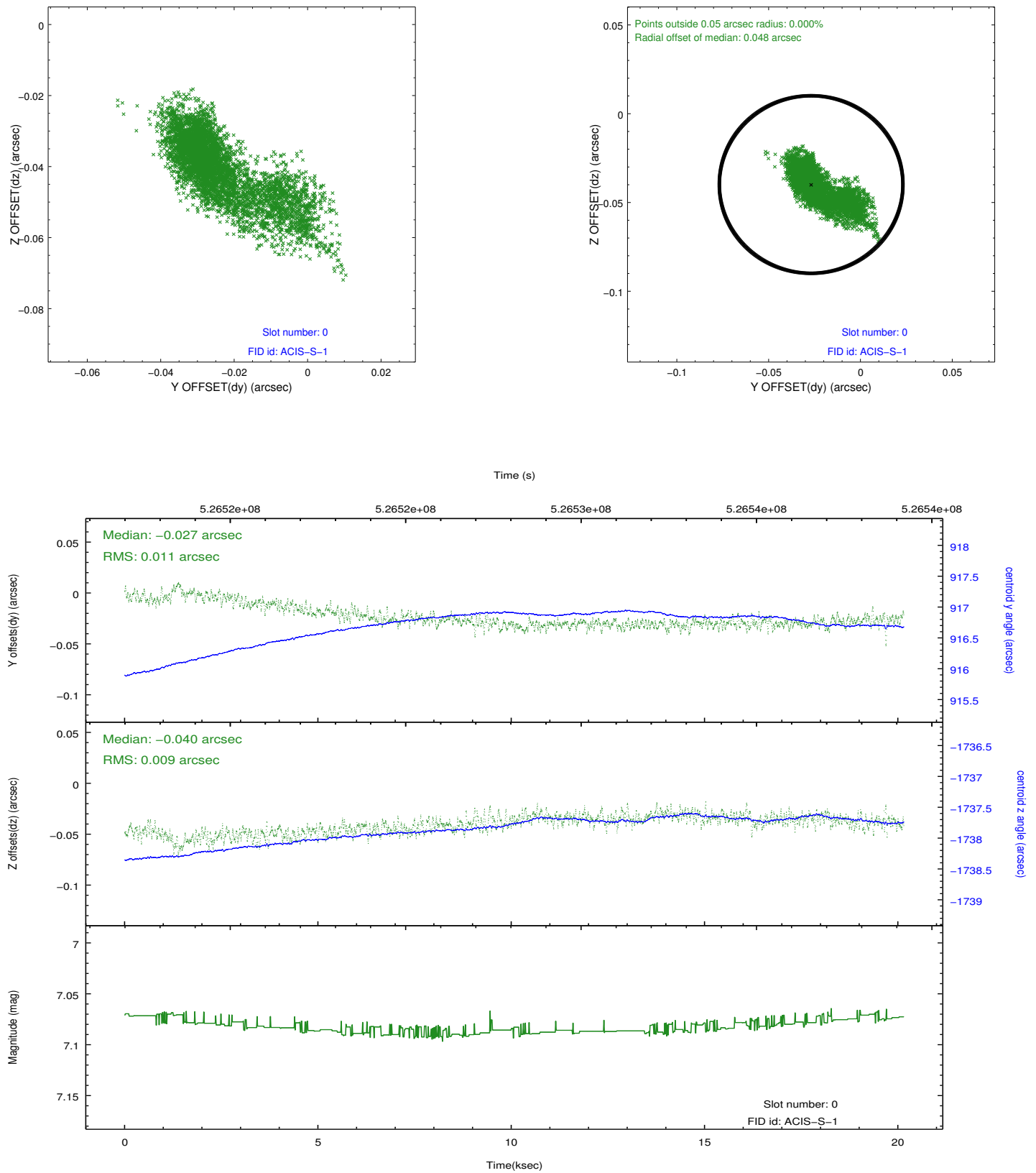


2.4.5 Slot 7

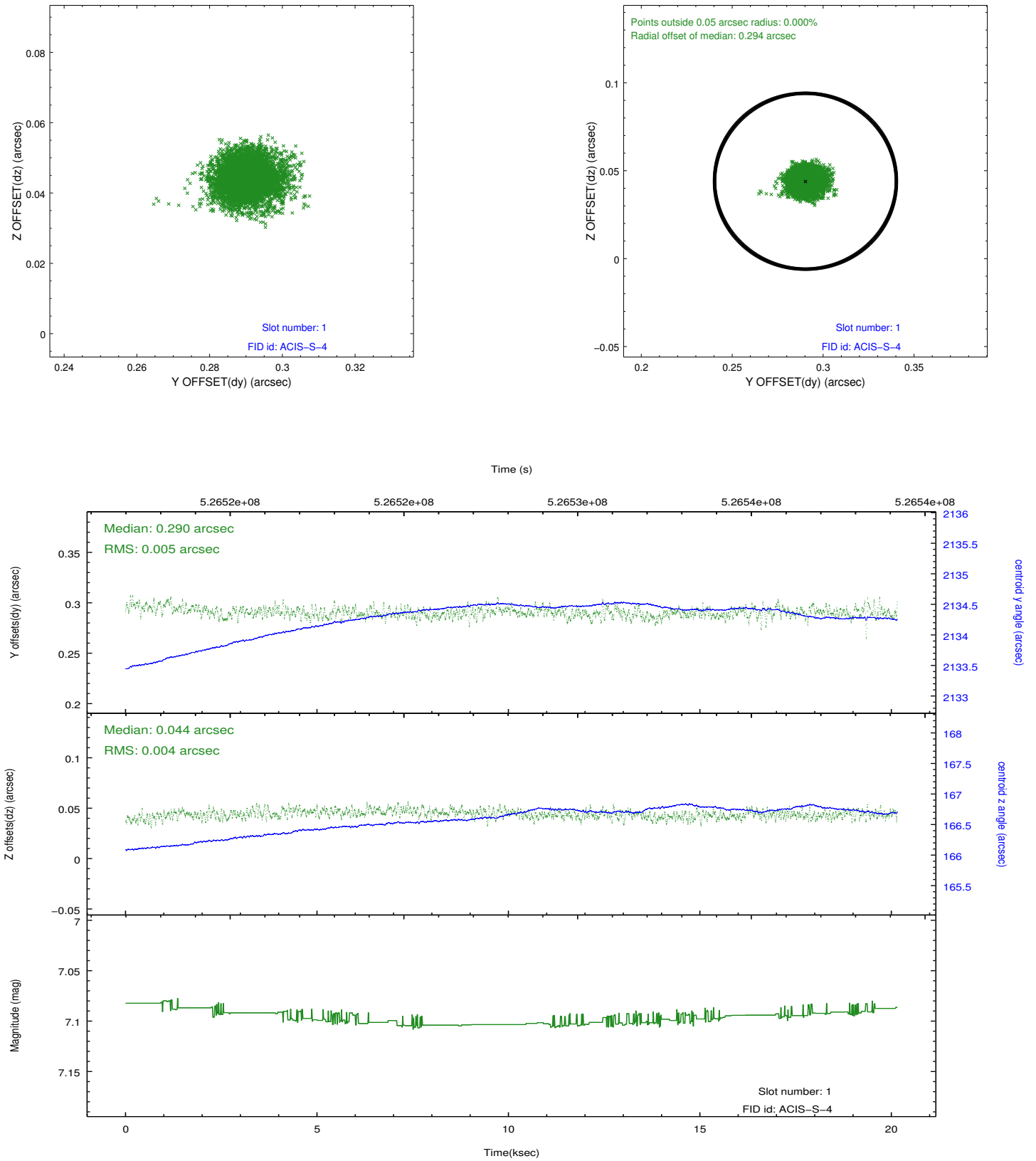


2.5 FID Slots

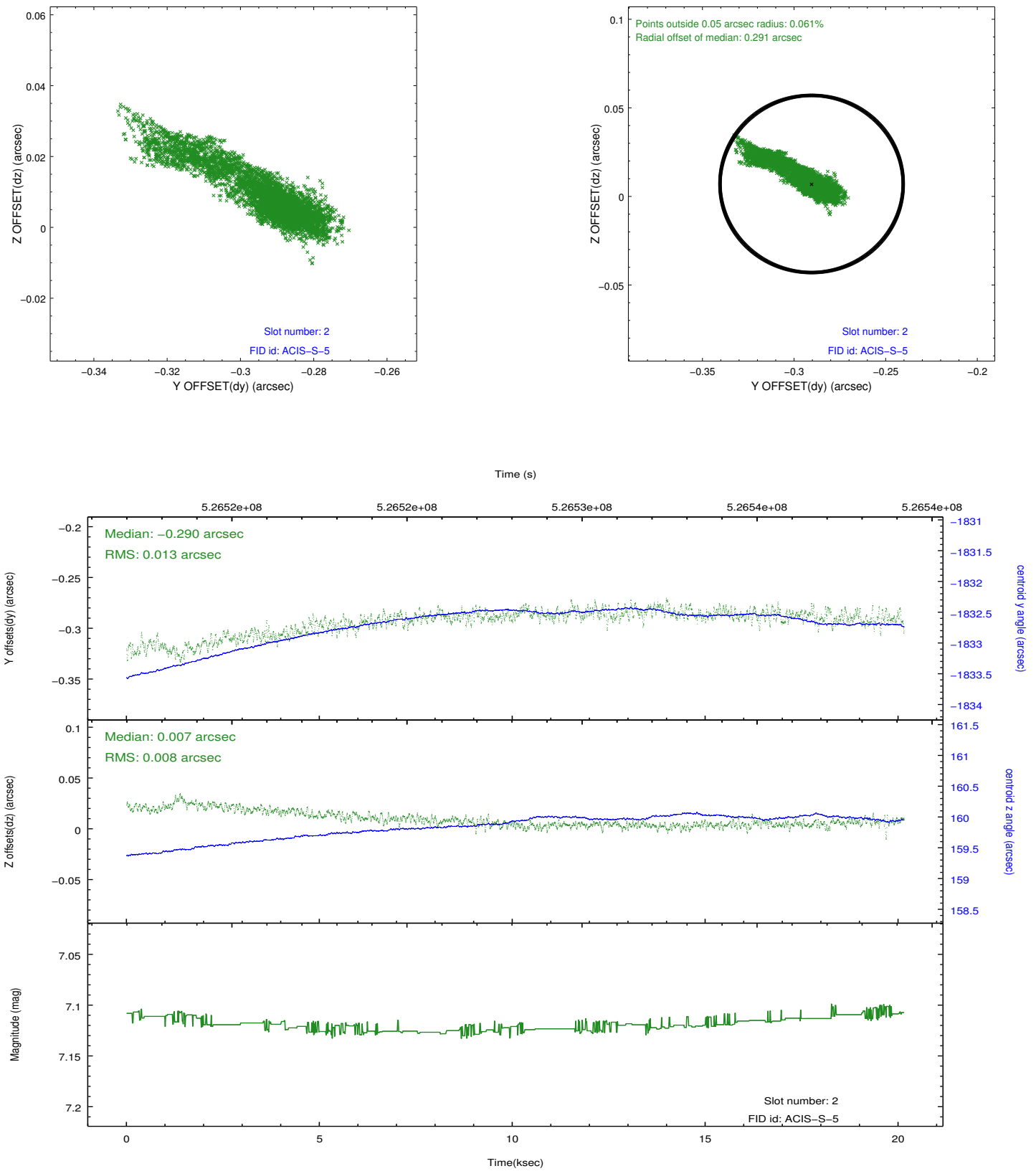
2.5.1 Slot 0



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)	2014.09.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.06864918375

A.2 Comments