

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 10684 - L2 Version 3  
Chandra X-Ray Center

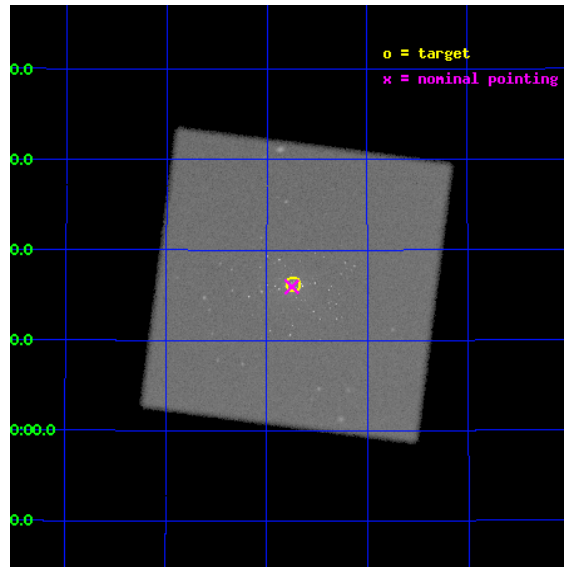
L2 Processing Date : Aug 13 2012

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Parameters . . . . .	4
2.1.3	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
<b>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

seq_num	300258	Sequence number
obs_id	10684	Observation id
title	Resolving short supersoft source states of optical novae in the core of M31	Proposal title
observer	Dr. Peter Predehl	Principal investigator
object	M31	Source name
ra_targ	10.684583	Observer's specified target RA [deg]
dec_targ	41.269278	Observer's specified target Dec [deg]
ra_nom	10.687564928561	Nominal RA [deg]
dec_nom	41.265650427788	Nominal Dec [deg]
roll_nom	322.39056835844	Nominal Roll [deg]
revision	3	Processing version of data
ontime	18918.68218863	[s]
livetime	18697.889752202	Ontime multiplied by DTCOR
l2events	1368129	Number of level 2 events

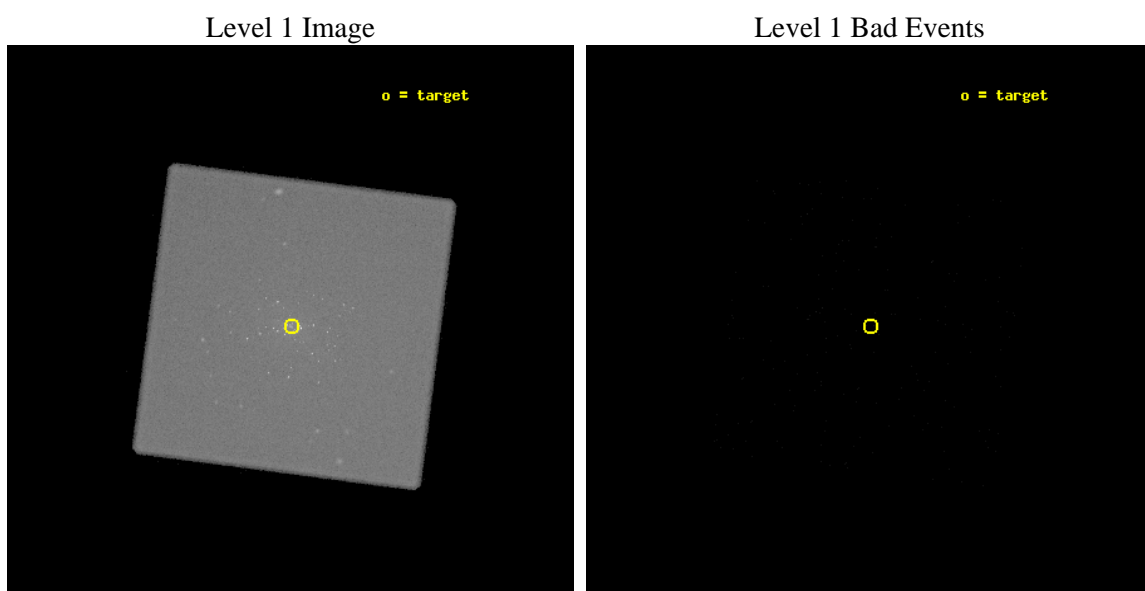




## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	18800.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	18918.68218863	[s]
caldbver	4.5.1.1	&#160	l1events	2103354	Number of level 1 events
date	2012-08-13T02:56:09	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

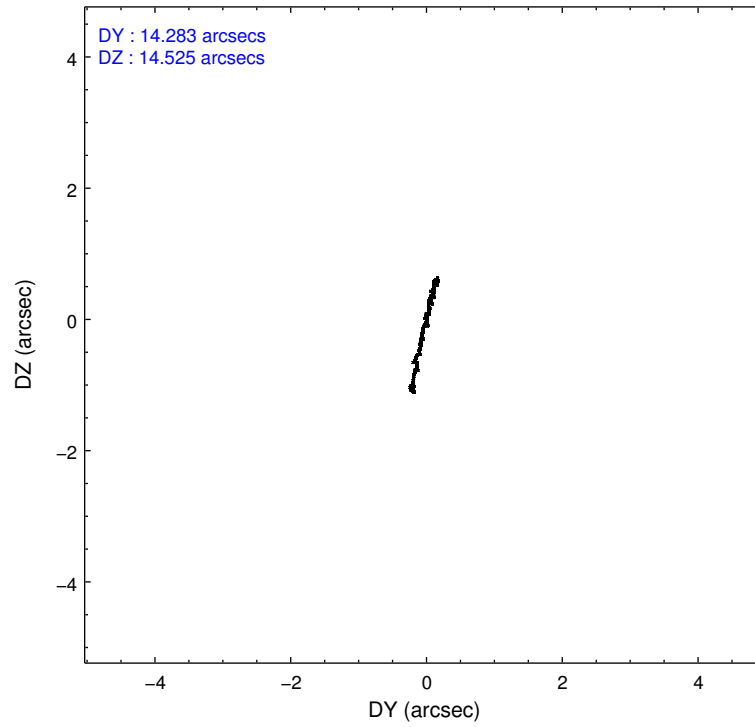
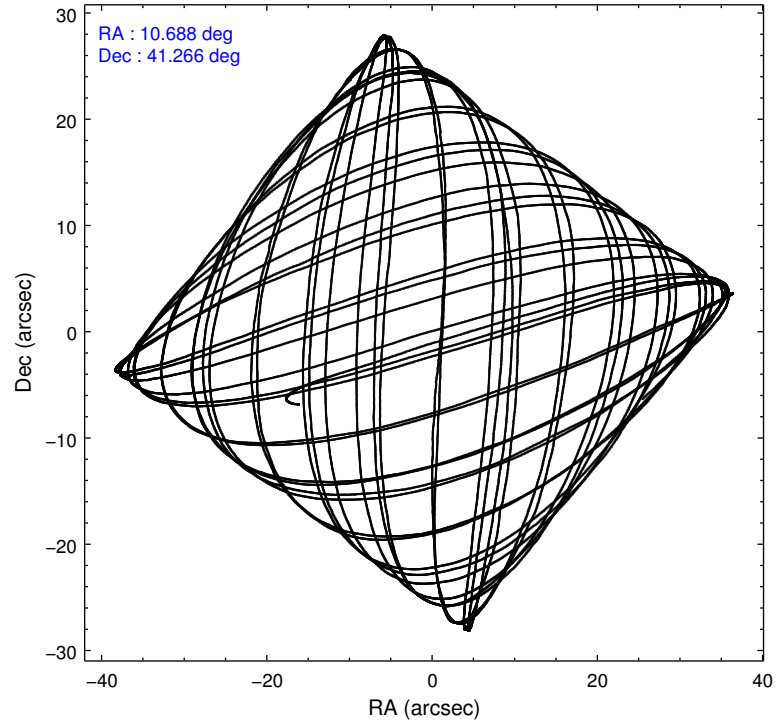
#### Level 1 Events

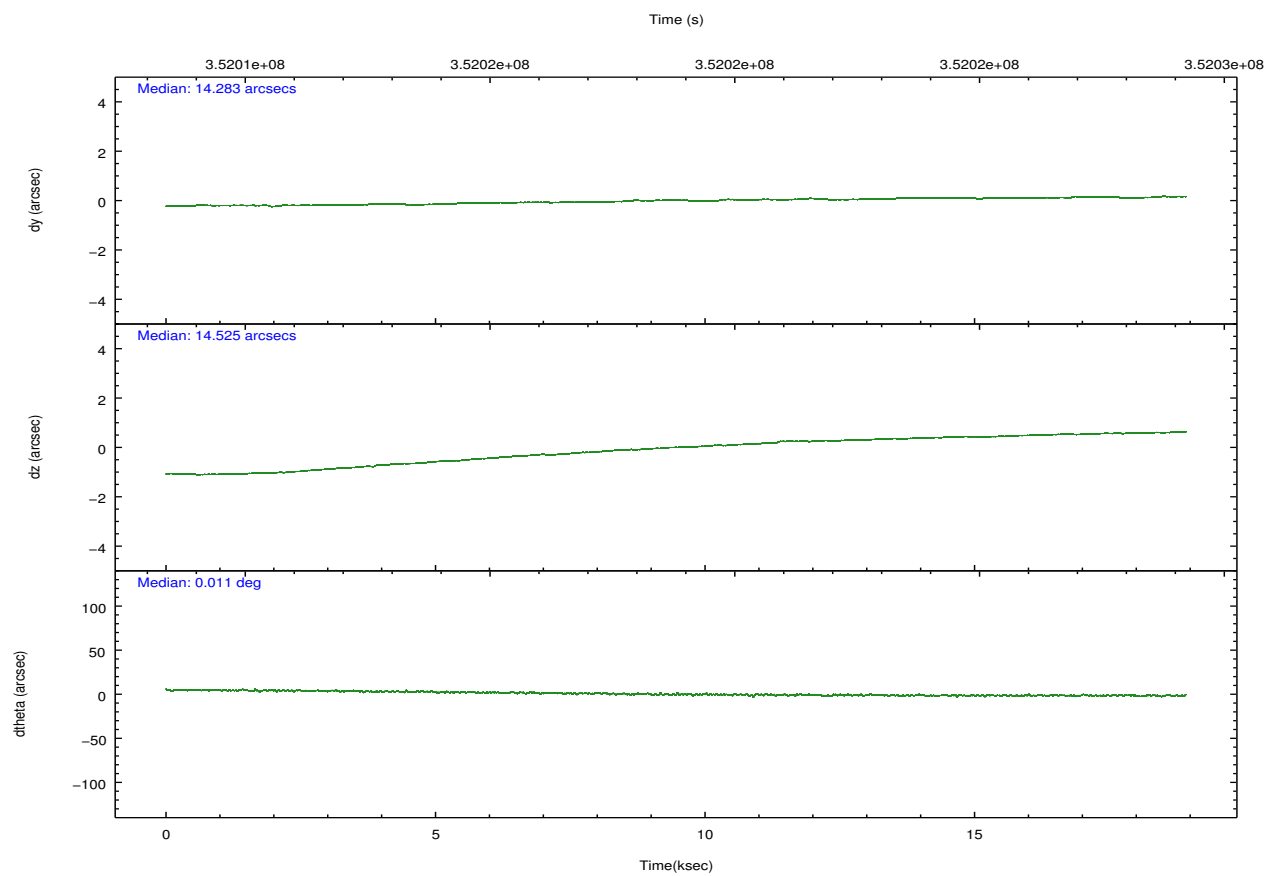
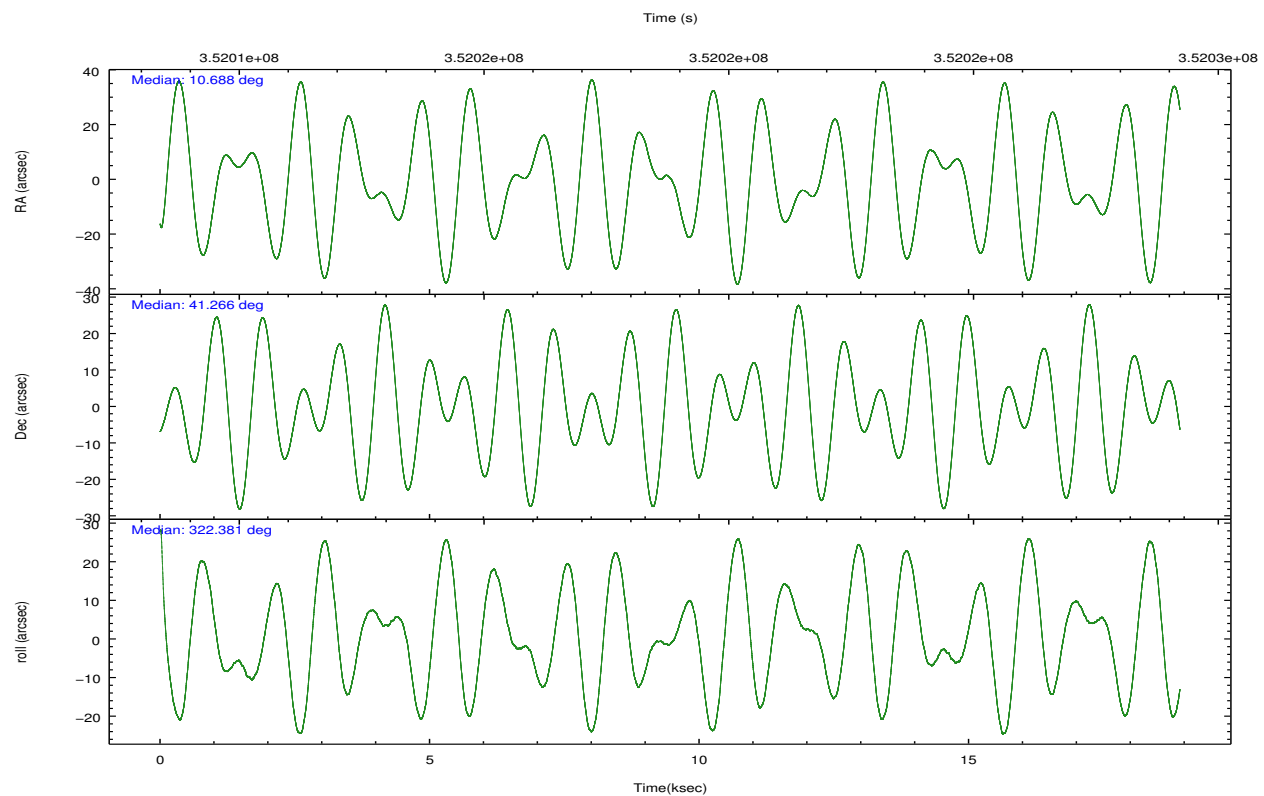
	<b>segment 0</b>
level 1 events	2103354
rejected events	123252
rejected %	5%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
Detector	HRC-I	HRC-I	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
[deg] Pointing RA	10.651479	10.68756492856146			
[deg] Pointing Dec	41.268619	41.26565042778806			
[deg] Pointing Roll	322.509851	322.3905683584384			
[s] Window start time (MET)	351907266.184000	351907266.184000			
[s] Window stop time (MET)	352166406.184000	352166406.184000			
[mm] SIM focus pos	-1.040293	-1.038866356238299			
[mm] SIM defocus	0	0.001426264420575141			
[mm] SIM translation stage pos	126.985494	126.9829799899862			
[mm] SIM translation stage offset	0	0.002508901615314585			
[s] Observation start time (MET)	352009466.184000	352008189.27559			
Observation start date	2009-02-26T04:23:20	2009-02-26T04:03:09			
[s] Observation end time (MET)	352028266.184000	352029142.83913			
Observation end date	2009-02-26T09:36:40	2009-02-26T09:52:22			

## 2.3 Aspect



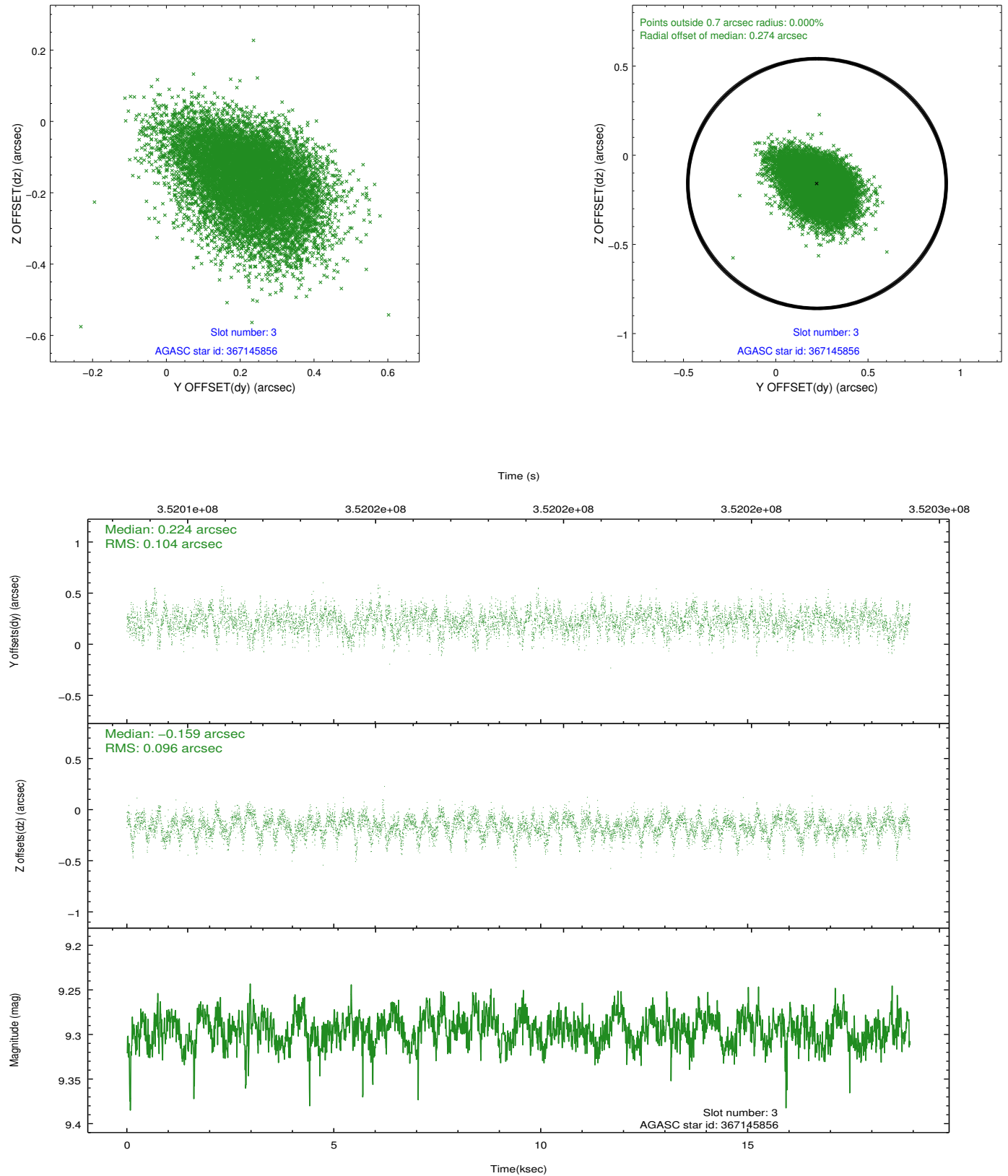


Slot Statistics

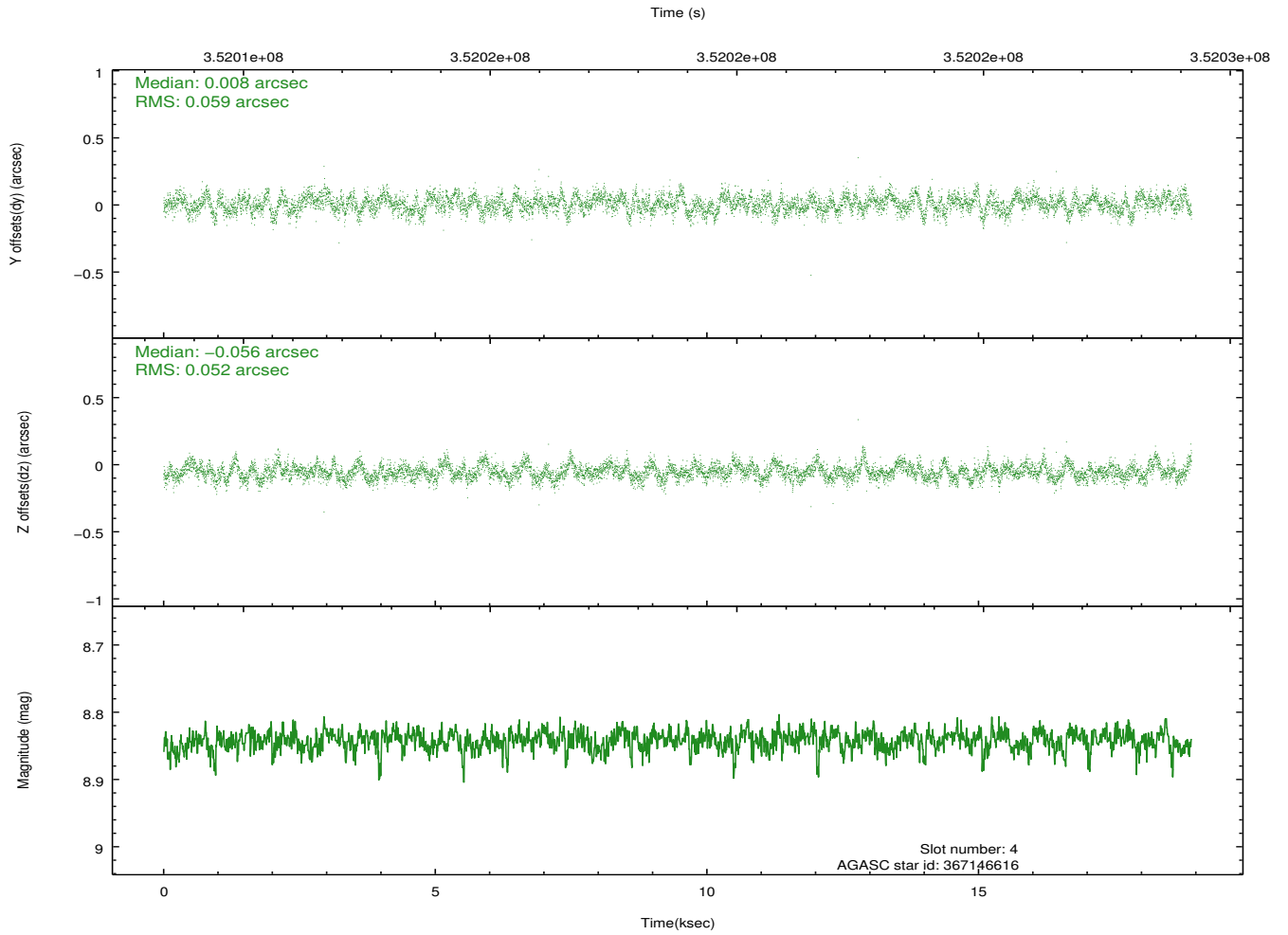
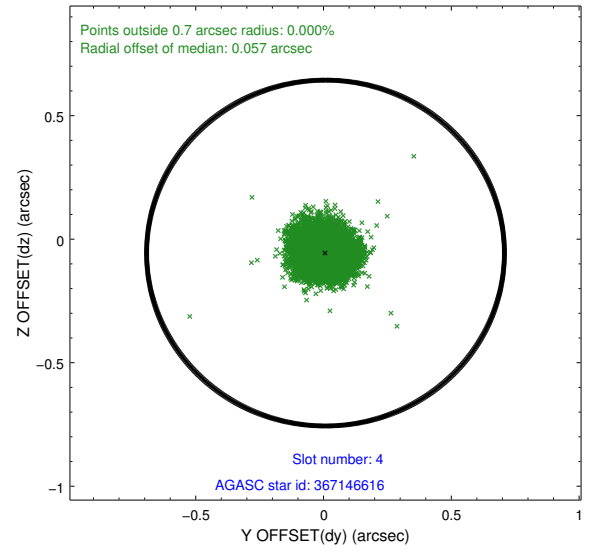
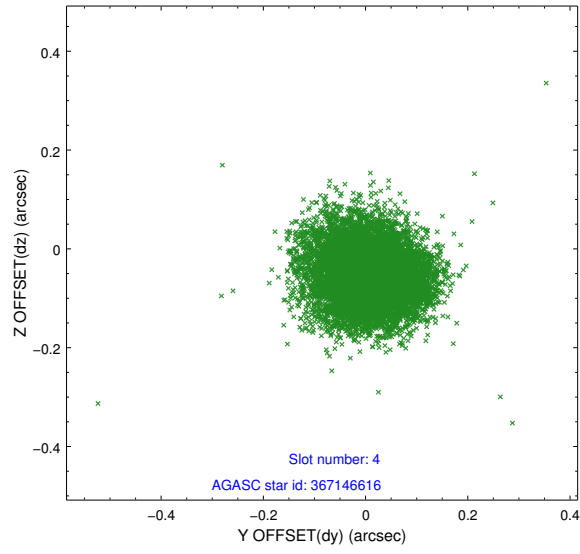
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	6.99	4615	-0.139	-0.034	0.025	0.047	0.000000	0.000000	-770.23	-1302.46
1	FID	HRC-I-2	7.04	4615	0.211	-0.071	0.021	0.032	0.000000	0.000000	842.58	-1304.42
2	FID	HRC-I-4	7.02	4615	0.046	0.013	0.022	0.036	0.000000	0.000000	1273.01	999.38
3	GUIDE	367145856	9.30	9212	0.224	-0.159	0.150	0.249	10.744946	40.402085	2102.58	-2319.39
4	GUIDE	367146616	8.84	9225	0.008	-0.056	0.083	0.134	11.418645	41.190163	1815.59	1047.96
5	GUIDE	367148872	7.22	9229	-0.065	-0.024	0.071	0.112	10.505940	40.688258	957.04	-1899.74
6	GUIDE	367663272	9.29	9223	-0.026	0.173	0.096	0.155	10.656279	41.699429	-934.05	1237.39
7	GUIDE	367674552	8.84	9209	-0.140	0.067	0.093	0.154	11.016238	41.570845	115.84	1462.93

## 2.4 Star Slots

### 2.4.1 Slot 3

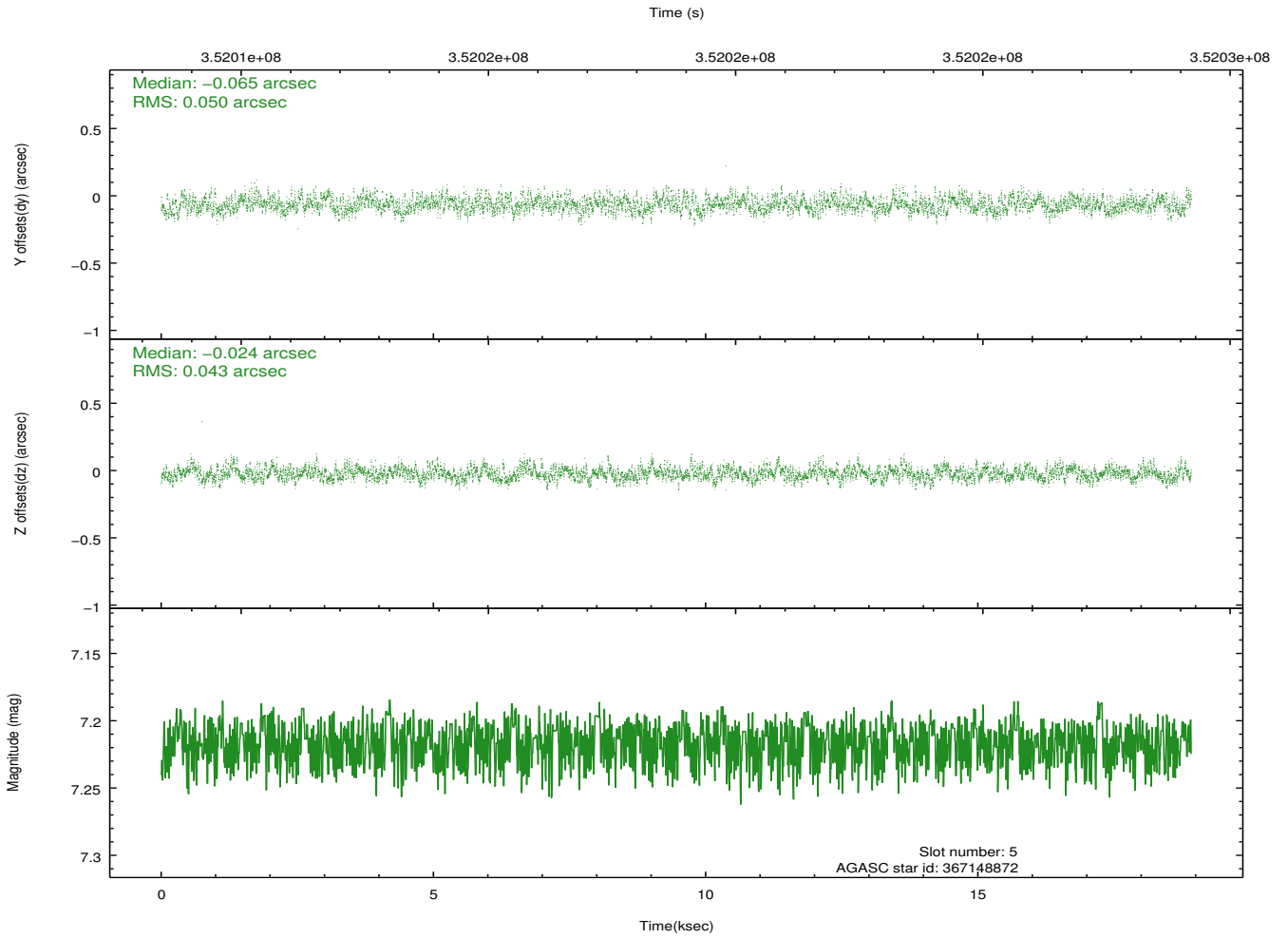
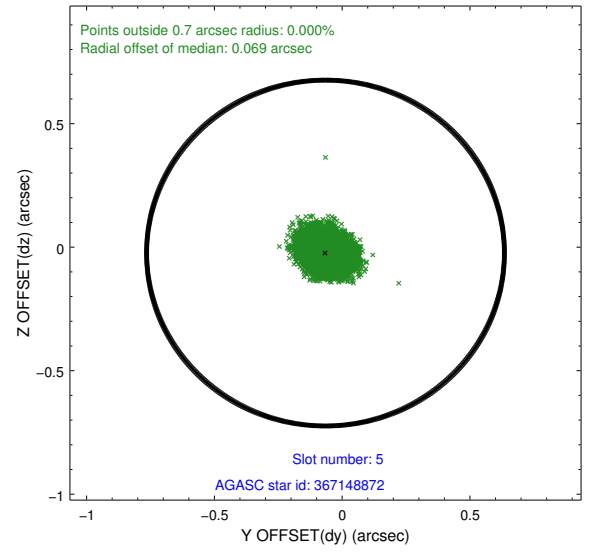
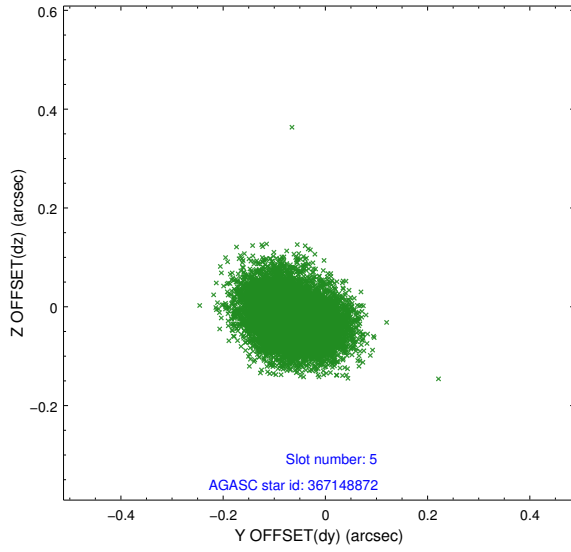


## 2.4.2 Slot 4

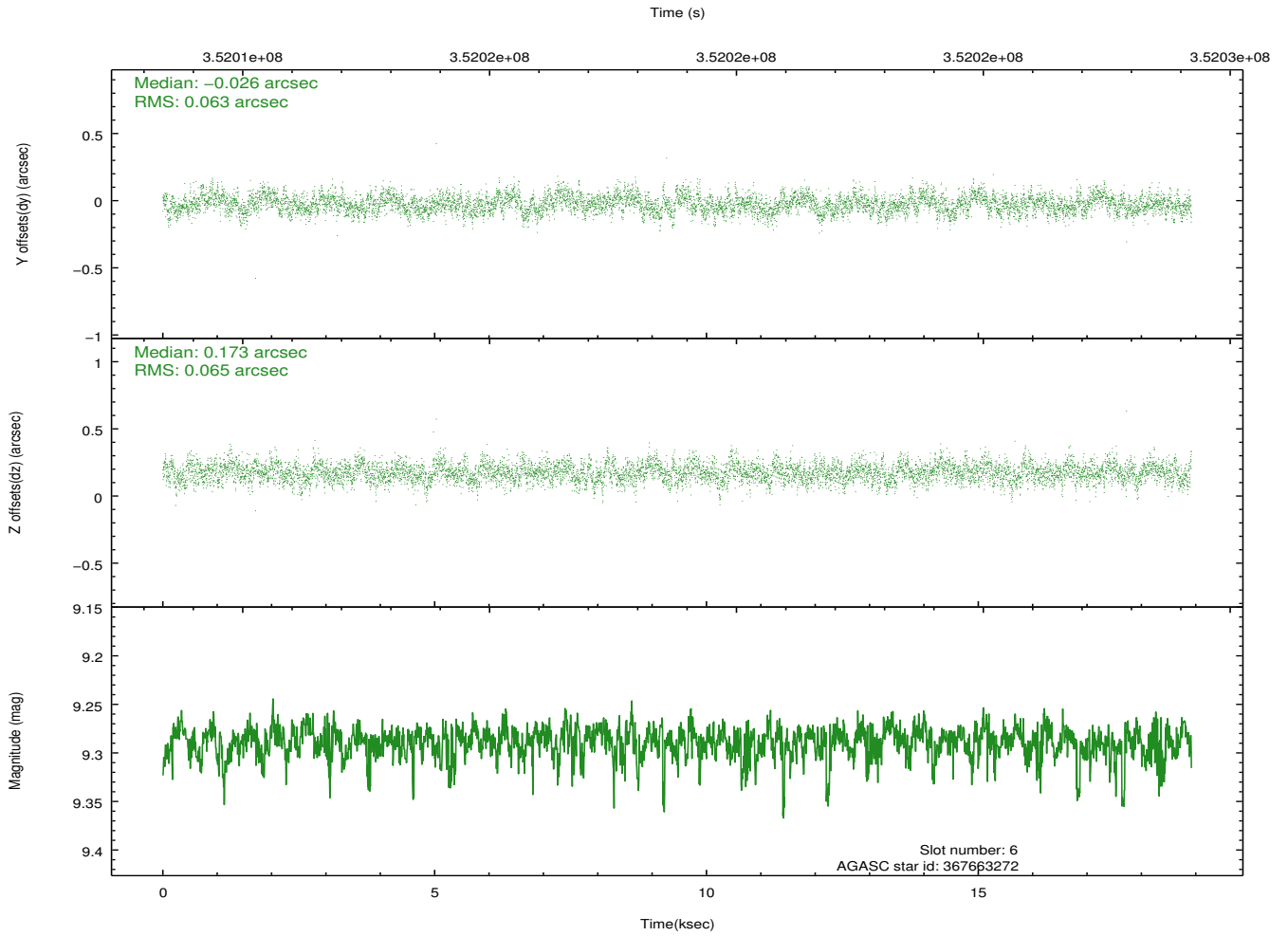
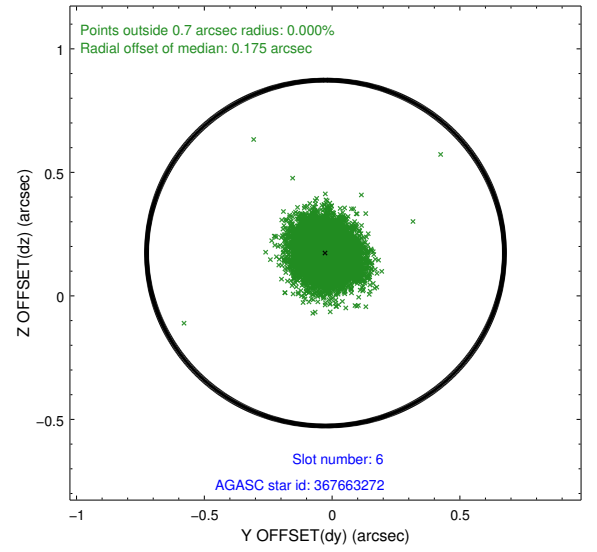
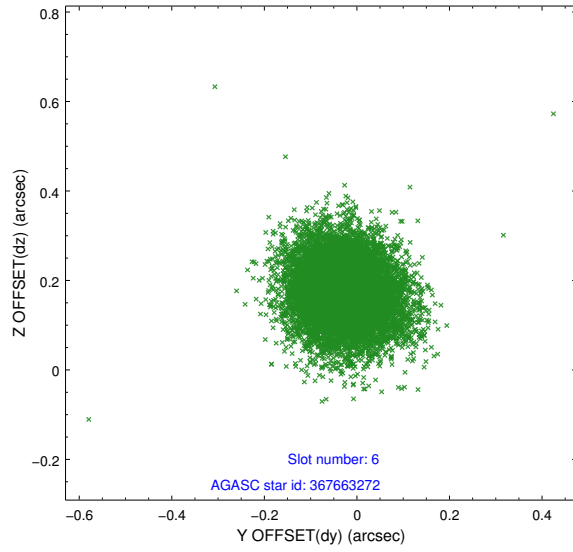




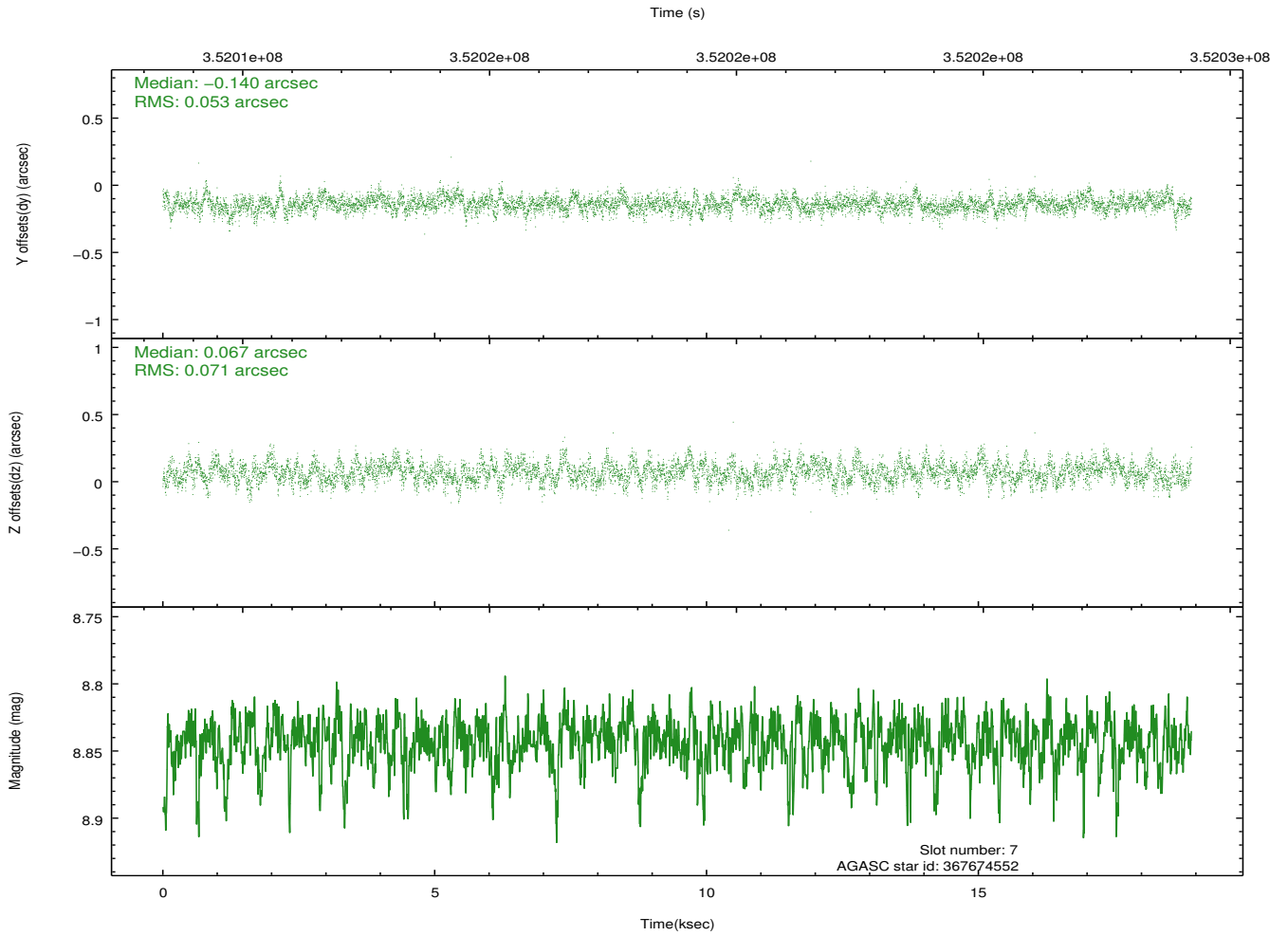
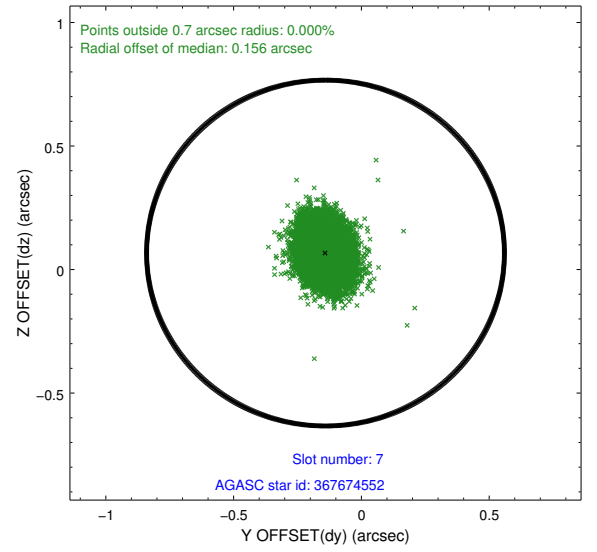
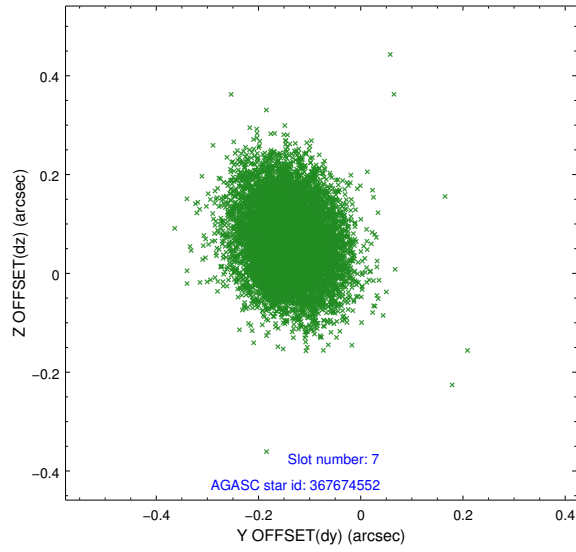
### 2.4.3 Slot 5



## 2.4.4 Slot 6

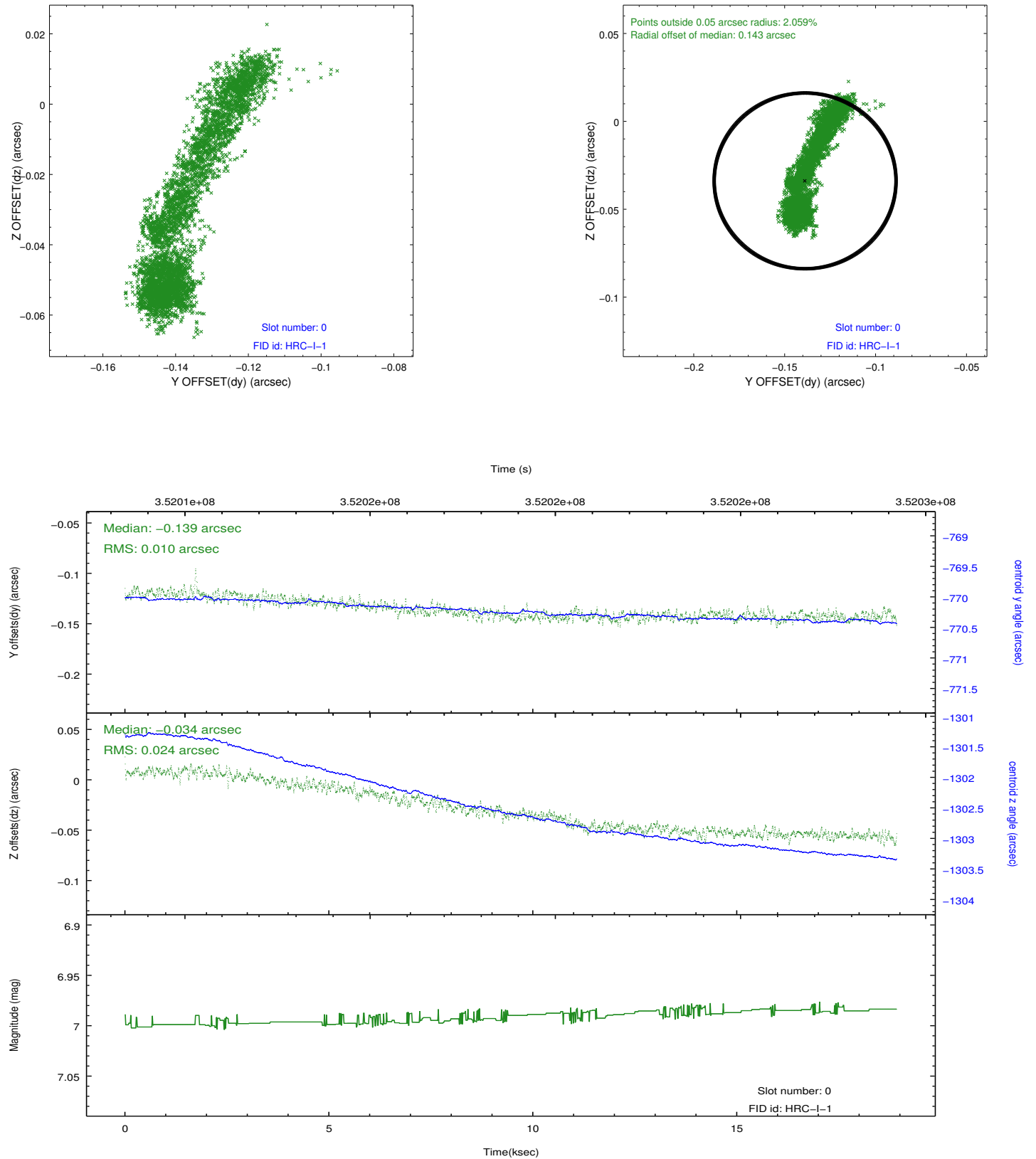


## 2.4.5 Slot 7

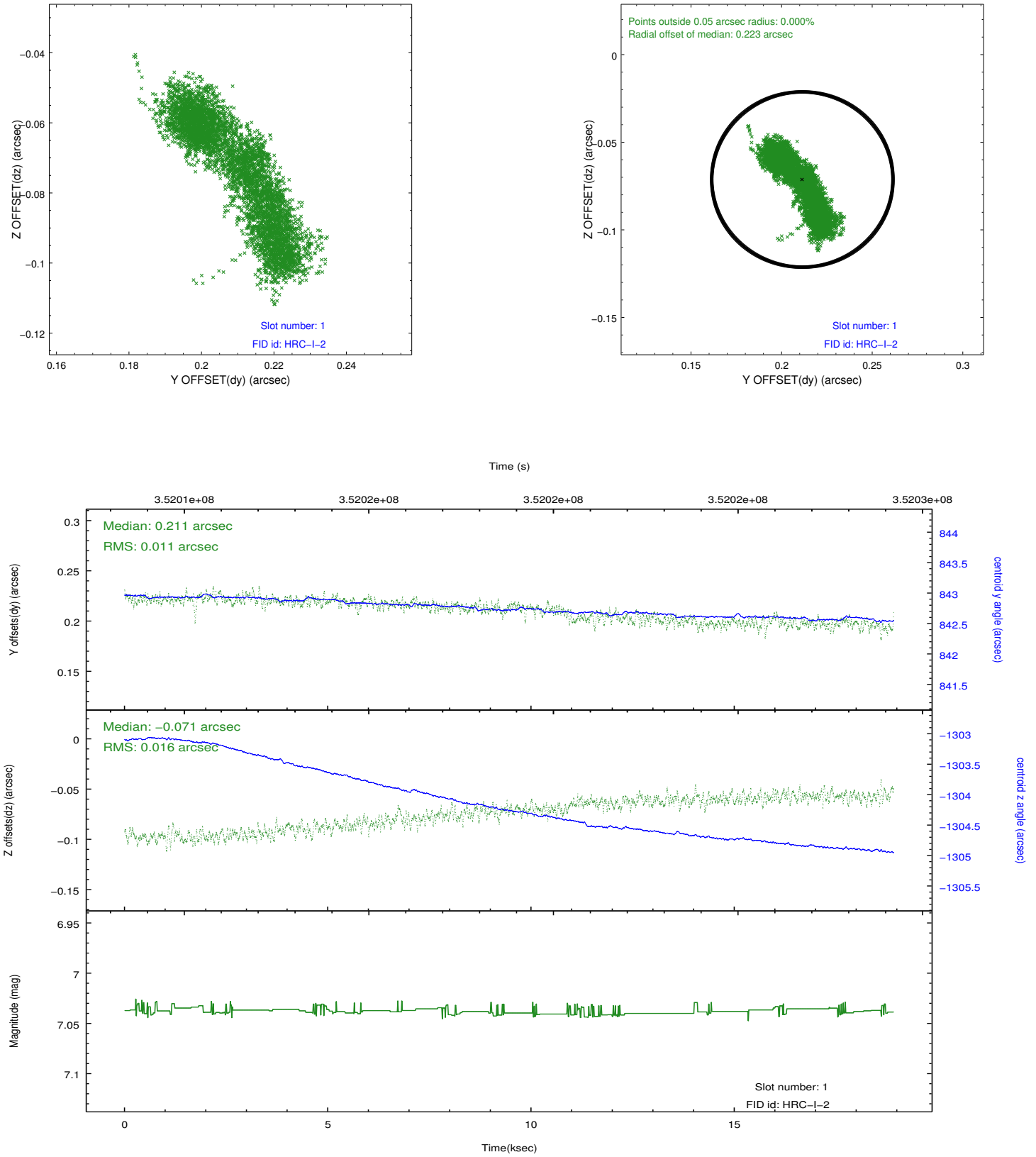


## 2.5 FID Slots

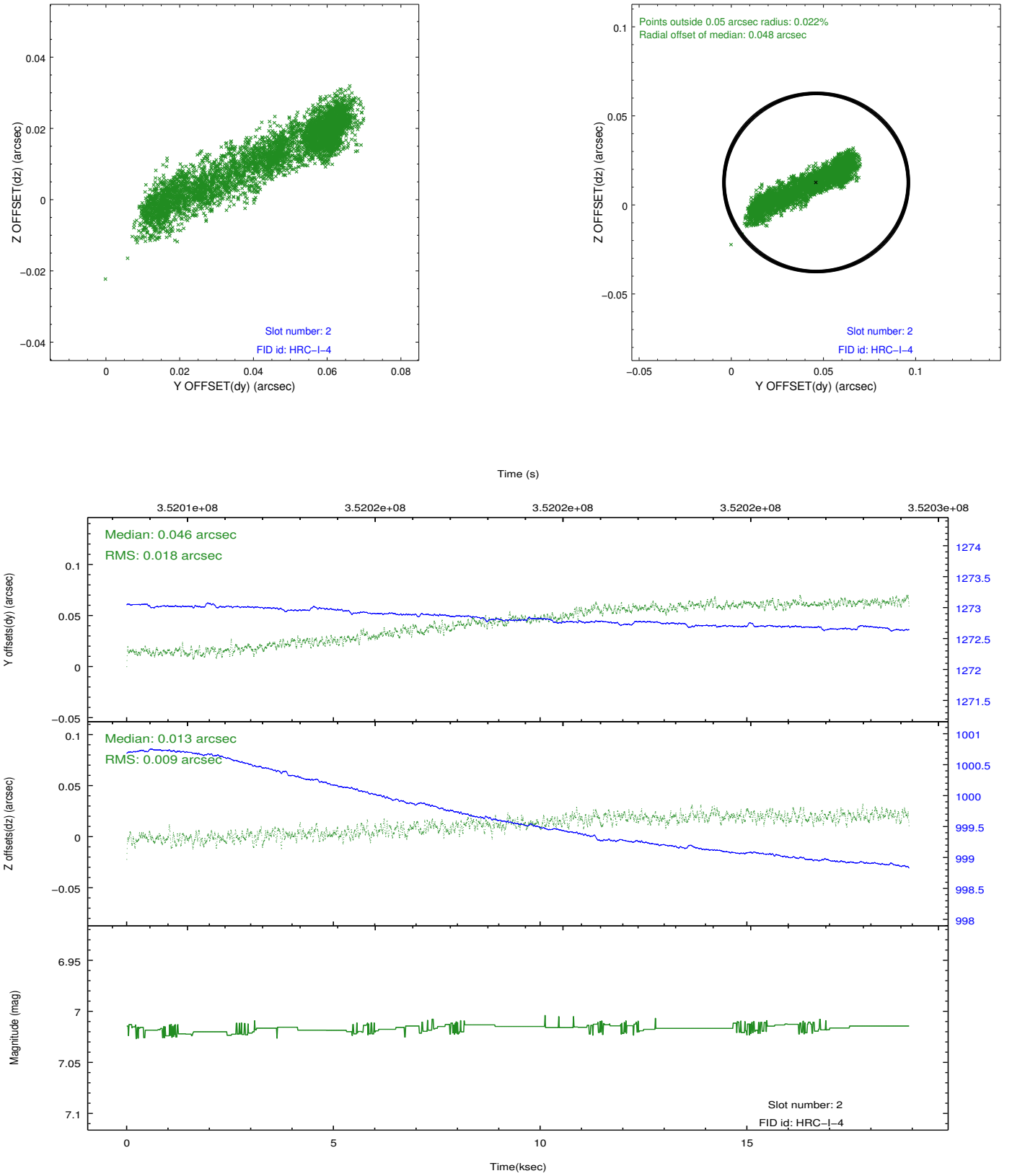
### 2.5.1 Slot 0



## 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)	2012.08.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	18.9184259

### A.2 Comments

Window preference met.