

# V&V Reference Report

## L2 ASCDS Version : 8.5

Observation 5102 - L2 Version 3  
Chandra X-Ray Center

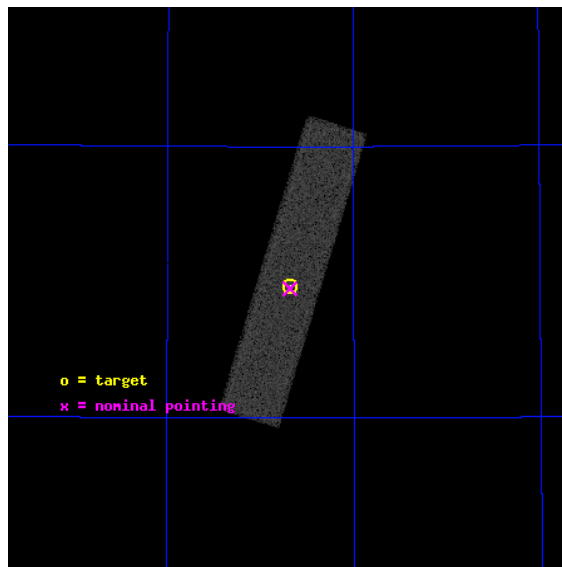
L2 Processing Date : Dec 12 2012

## 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

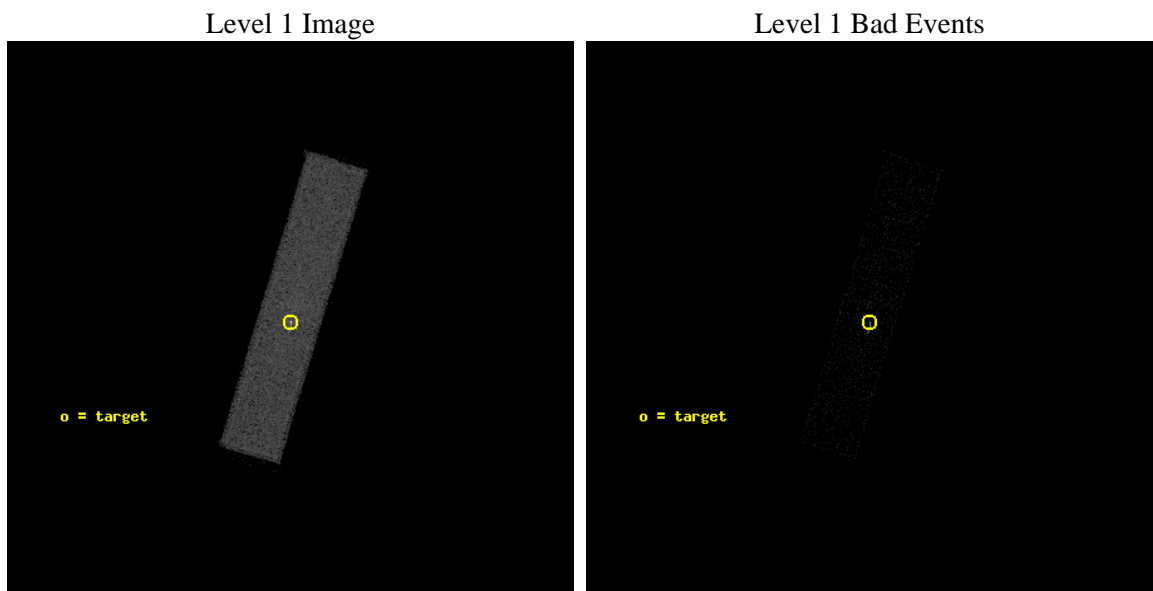
seq_num	290375	Sequence number
obs_id	5102	Observation id
title	AO5B Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.17093015993	Nominal RA [deg]
dec_nom	45.737576401079	Nominal Dec [deg]
roll_nom	286.83398735046	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1079.5812985301	[s]
livetime	1072.460323119	Ontime multiplied by DTCOR
l2events	49652	Number of level 2 events



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	1	Obi number	sched_exp_time	900.000000	[s] Scheduled observation exposure time
ascdsver	8.5	Processing system revision	ontime	1079.5812985301	[s]
caldsver	4.5.4	&#160	l1events	107115	Number of level 1 events
date	2012-12-11T23:53:50	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

Level 1 Events

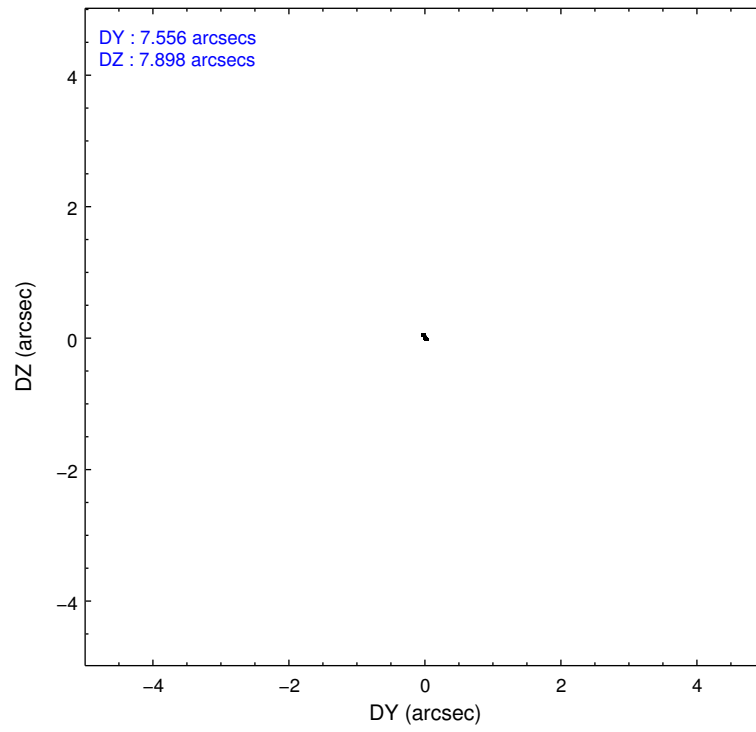
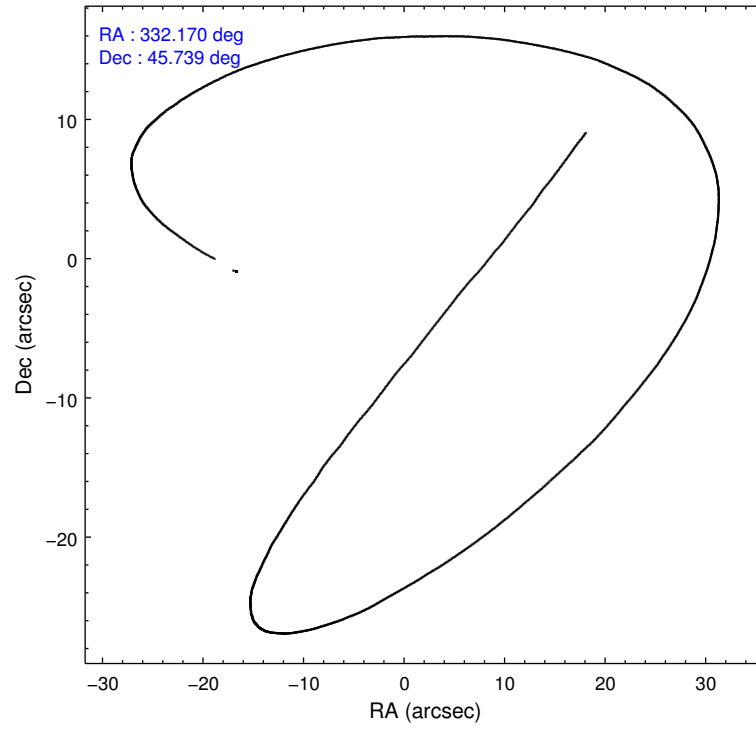
	segment 1	segment 2	segment 3
level 1 events	0	107115	0
rejected events	0	45957	0
rejected %	0%	42%	0%

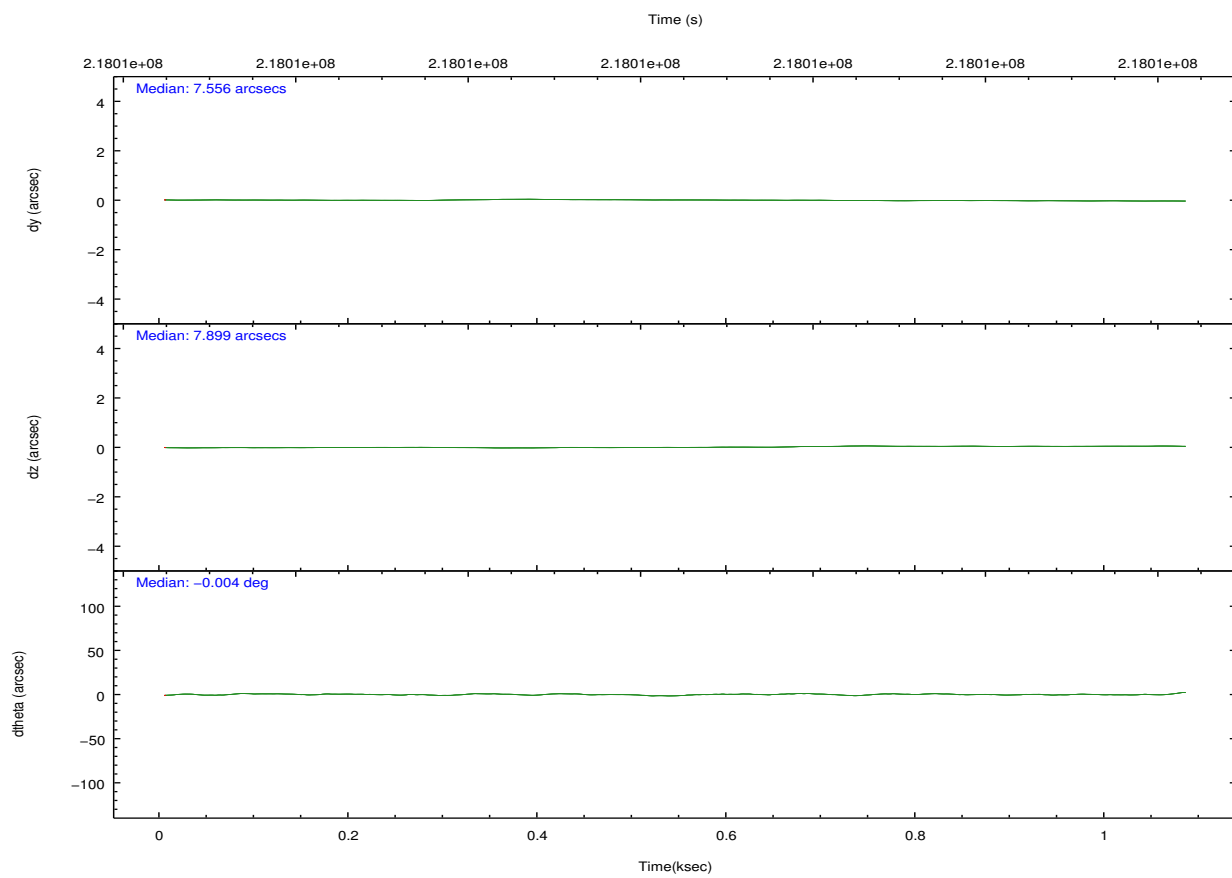
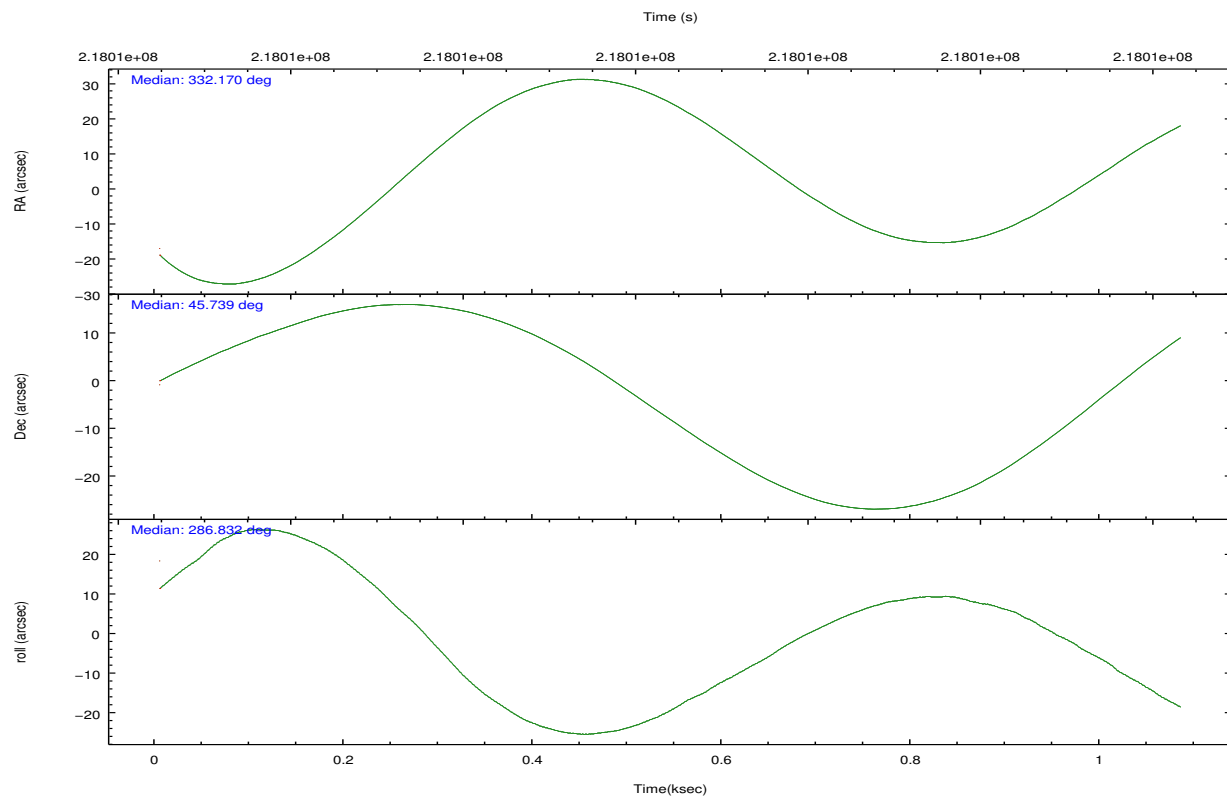
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-S	HRC-S
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	332.140516	332.1709301599289
[deg] Pointing Dec	45.756292	45.73757640107874
[deg] Pointing Roll	286.788371	286.8339873504558
[s] Window start time (MET)	210384064.184000	210384064.184000
[s] Window stop time (MET)	220838464.184000	220838464.184000
[mm] SIM focus pos	-1.429586	-1.428180813131781
[mm] SIM defocus	0.1037507710433287	0.1051558262725154
[mm] SIM translation stage pos	250.455976	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	218008683.184000	218007755.5432
Observation start date	2004-11-28T05:56:59	2004-11-28T05:42:35
[s] Observation end time (MET)	218009583.184000	218009716.88079
Observation end date	2004-11-28T06:11:59	2004-11-28T06:15:16

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED

## 2.3 Aspect





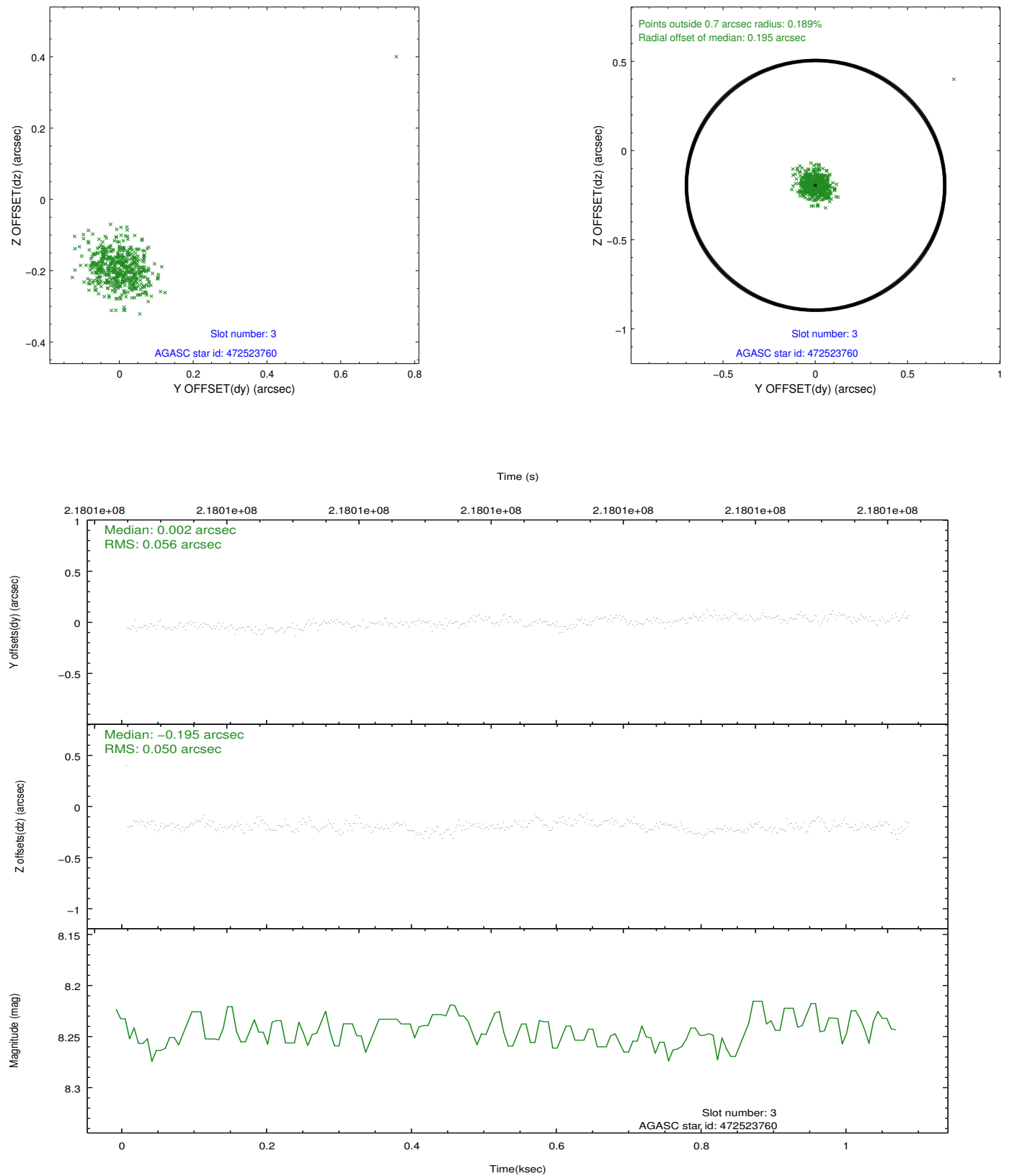
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.04	264	0.130	-0.113	0.006	0.010	0.000000	0.000000	-1161.72	-456.50
1	FID	HRC-S-2	7.04	264	0.163	-0.115	0.005	0.008	0.000000	0.000000	1233.59	-450.85
2	FID	HRC-S-3	7.05	264	0.097	-0.075	0.006	0.011	0.000000	0.000000	-1159.81	571.36
3	GUIDE	472523760	8.24	528	0.002	-0.195	0.066	0.111	331.645363	45.403260	851.86	-1561.95
4	GUIDE	472655152	9.44	528	0.012	0.063	0.107	0.187	332.504239	45.862991	-104.47	984.09
5	GUIDE	472659832	9.47	528	-0.060	-0.029	0.118	0.193	332.780399	46.098139	-723.05	1890.86
6	GUIDE	472533912	9.15	528	-0.127	0.079	0.086	0.136	331.791136	46.368695	-2364.44	-187.53
7	GUIDE	472654568	9.45	526	0.168	0.064	0.130	0.225	332.194449	45.063576	2422.98	-586.75

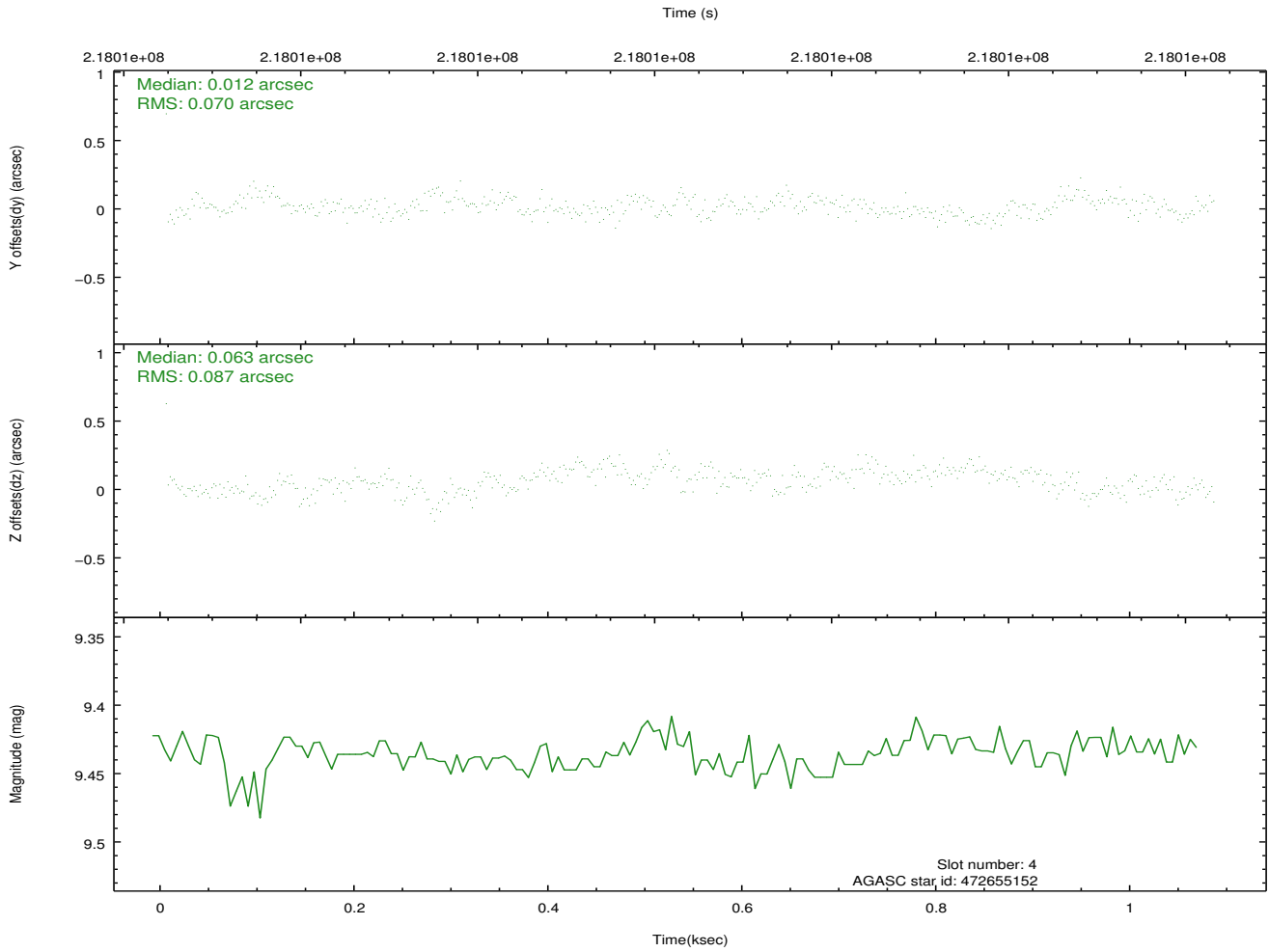
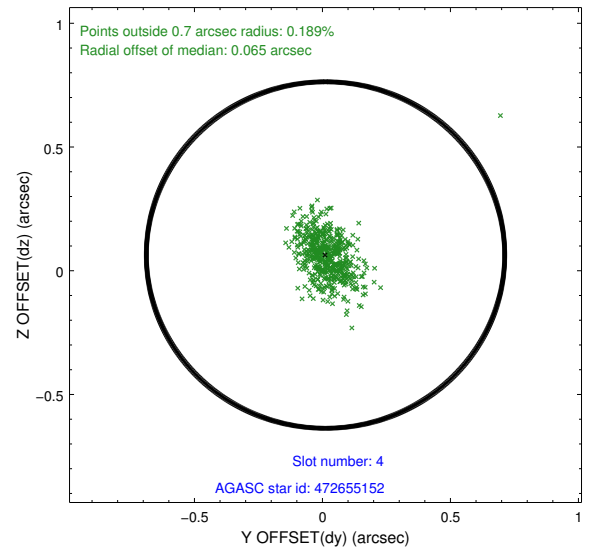
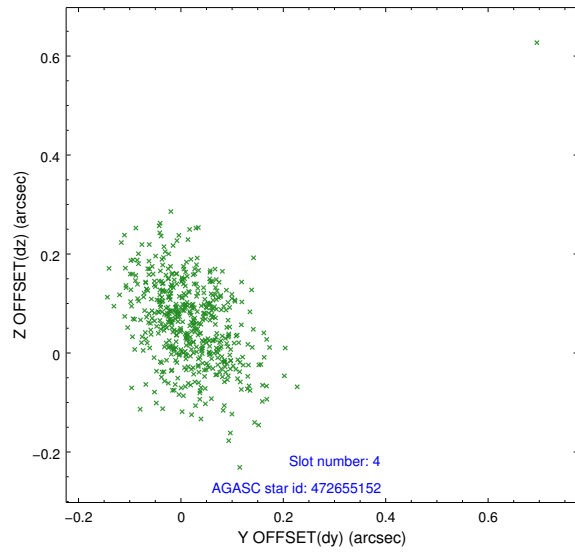


## 2.4 Star Slots

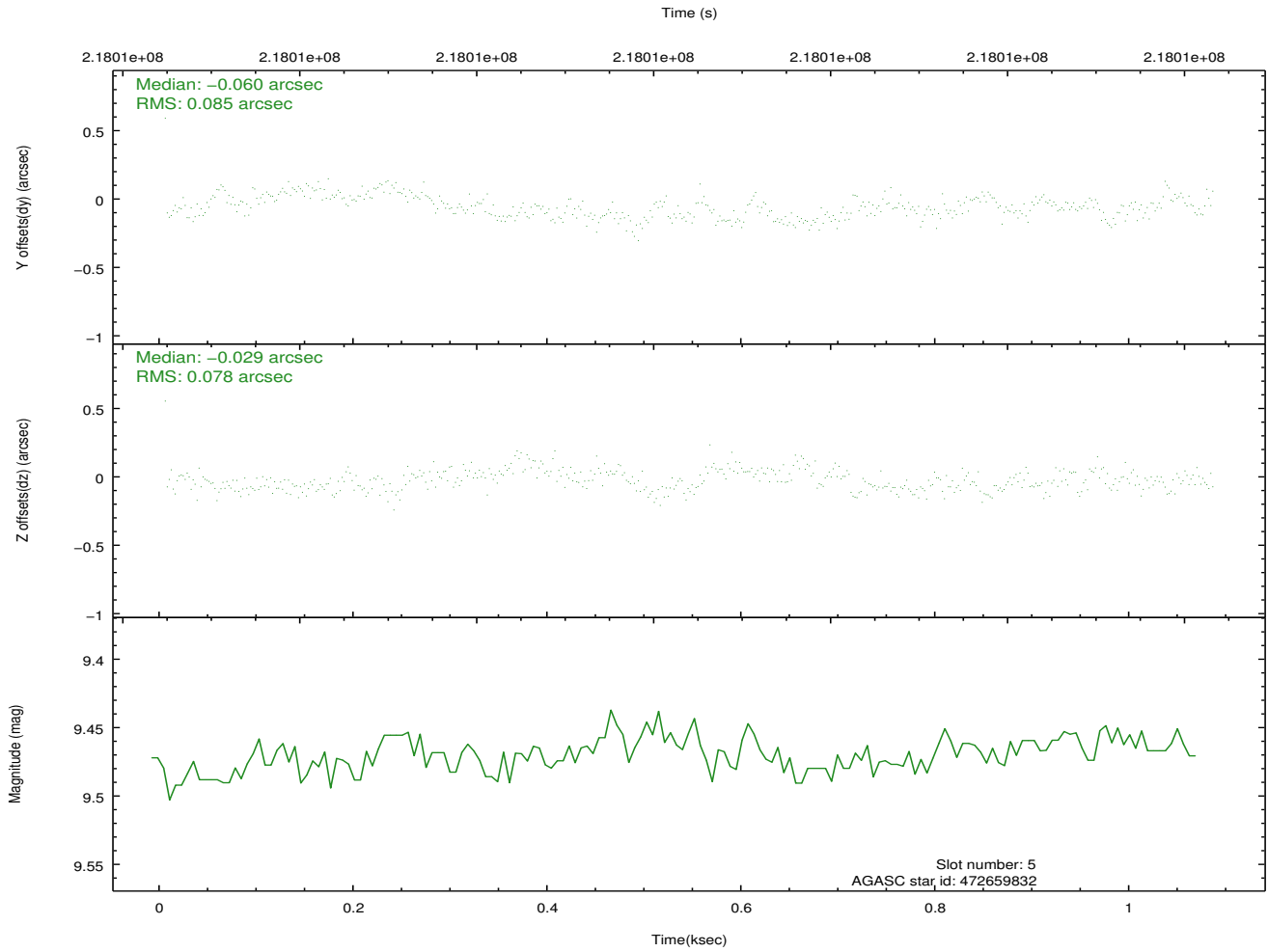
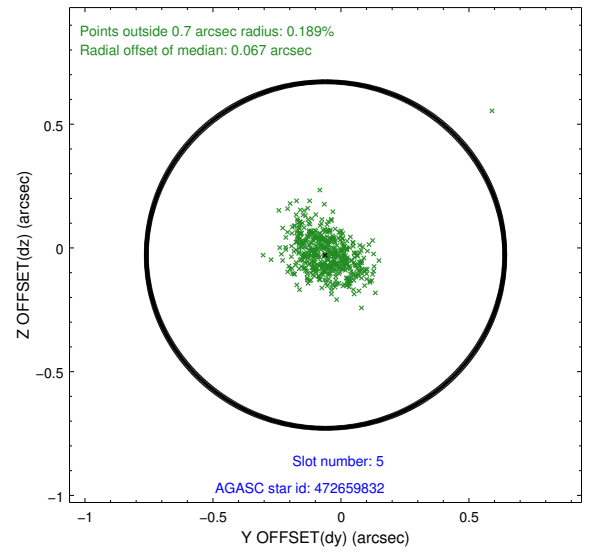
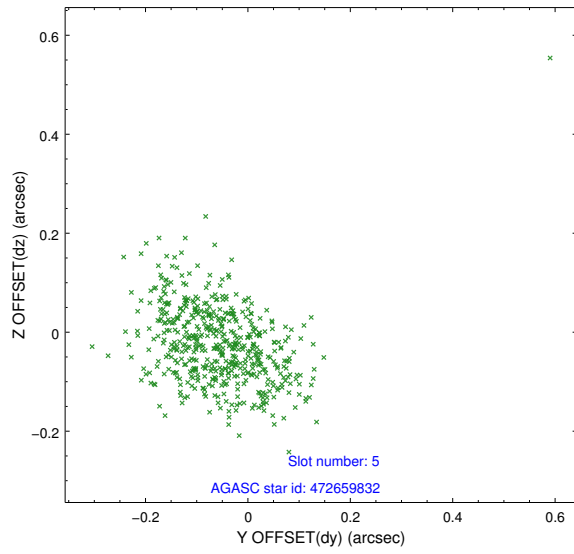
### 2.4.1 Slot 3



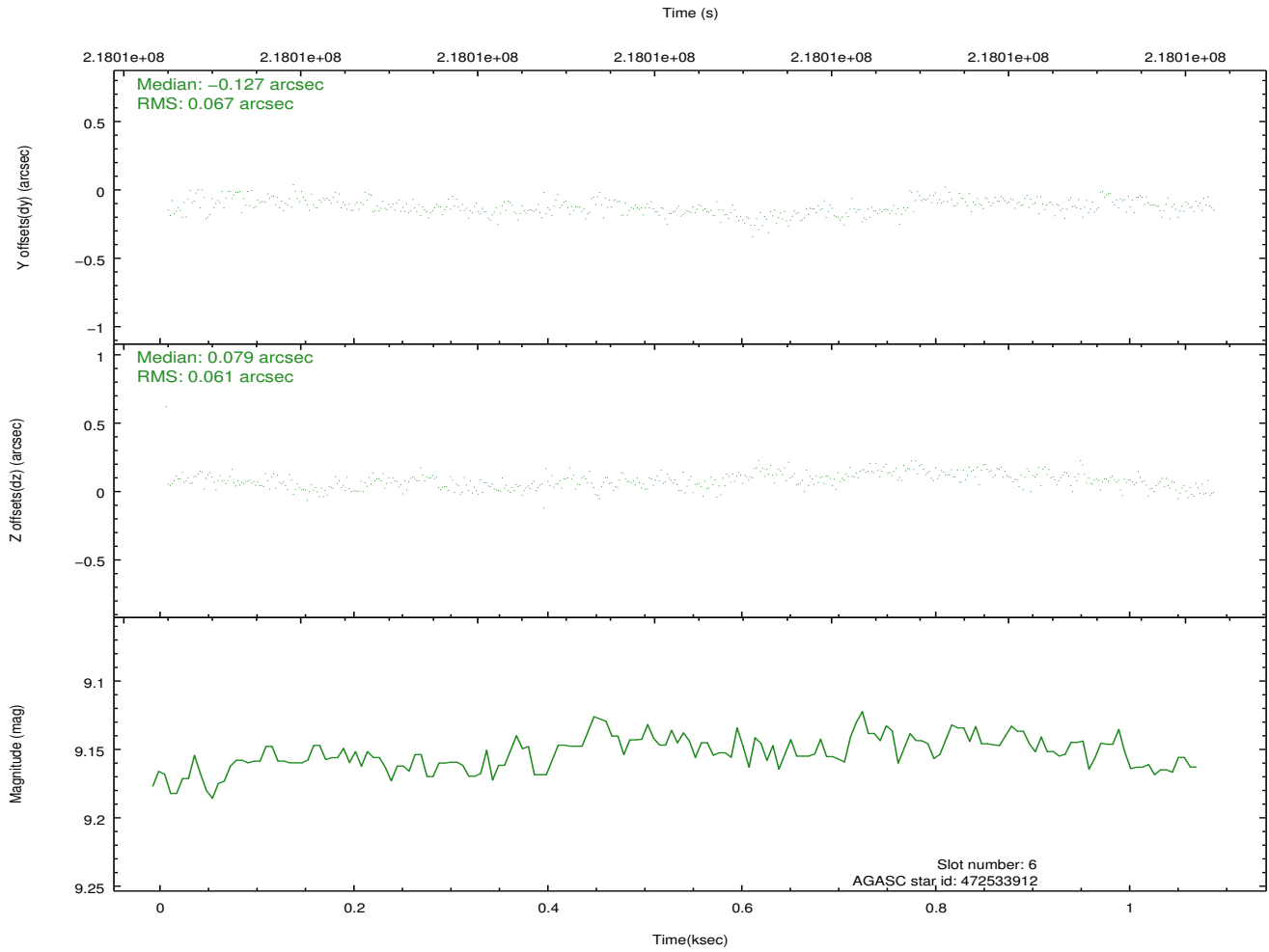
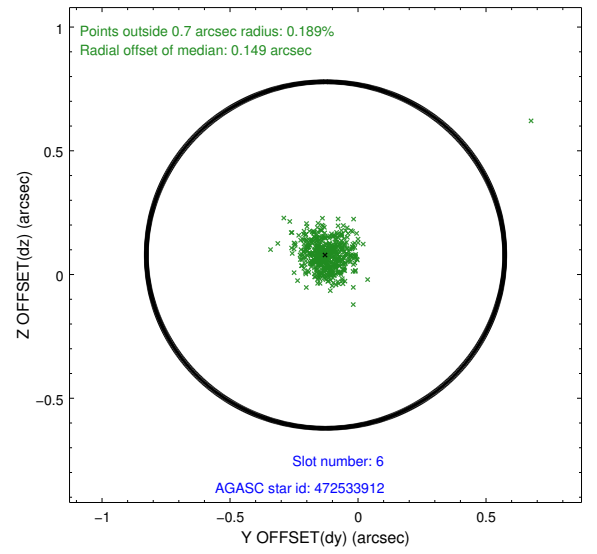
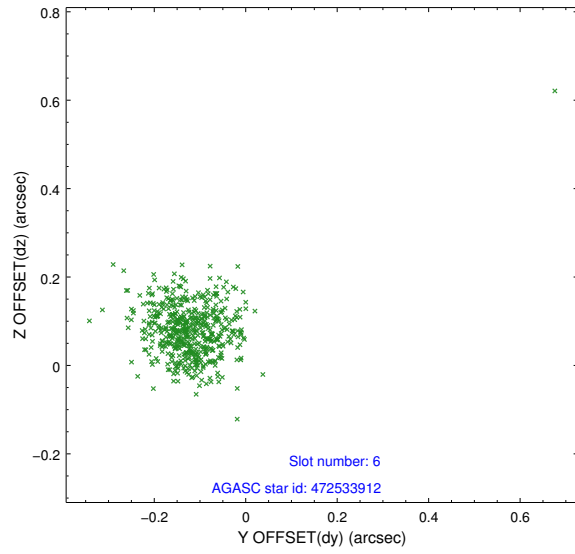
## 2.4.2 Slot 4



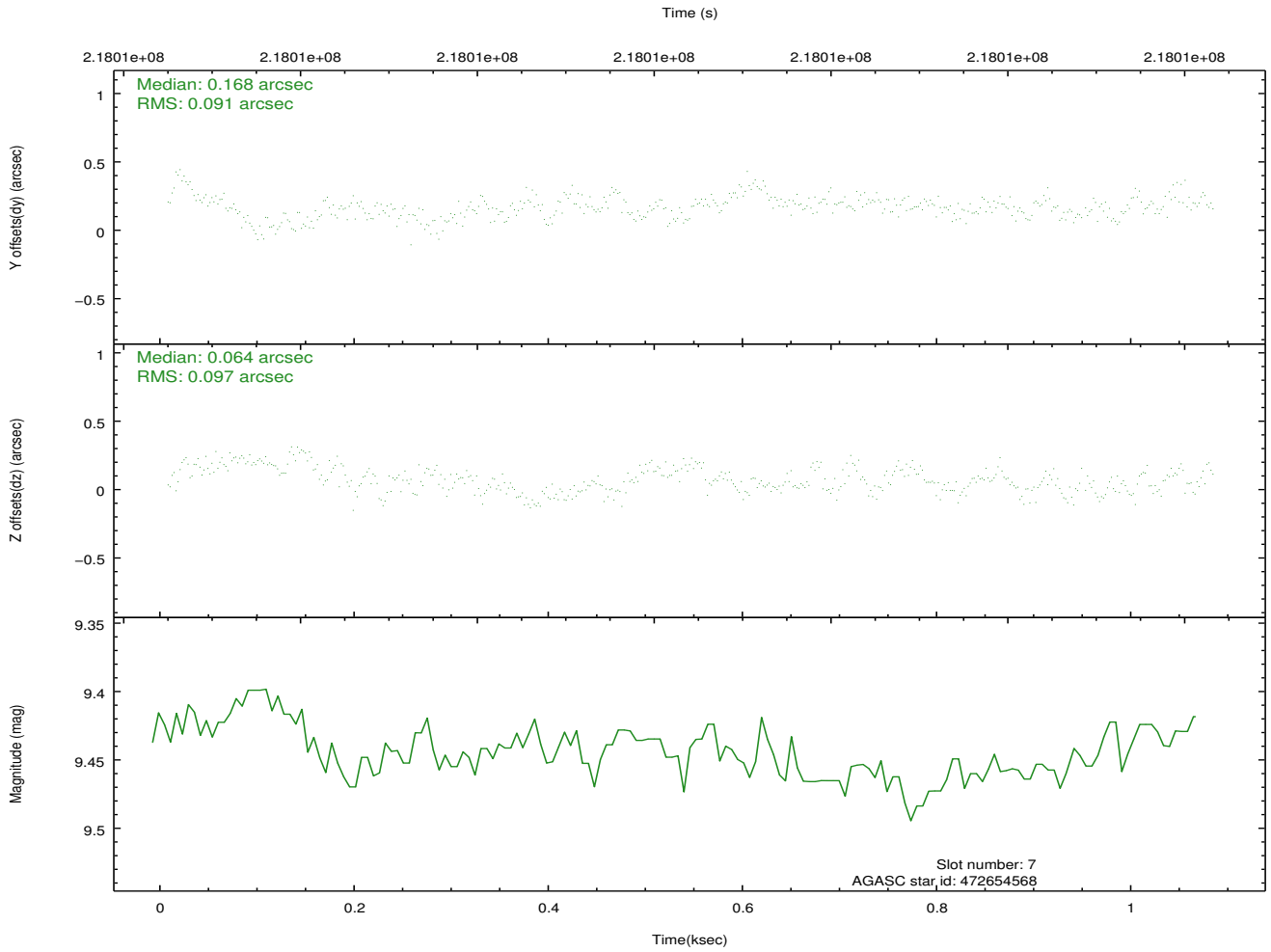
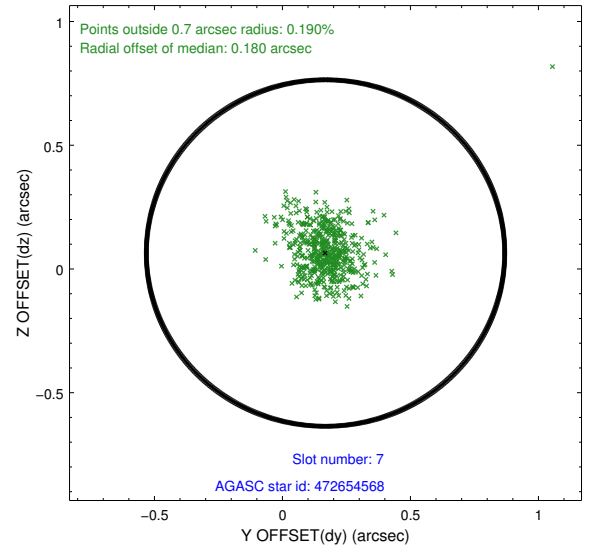
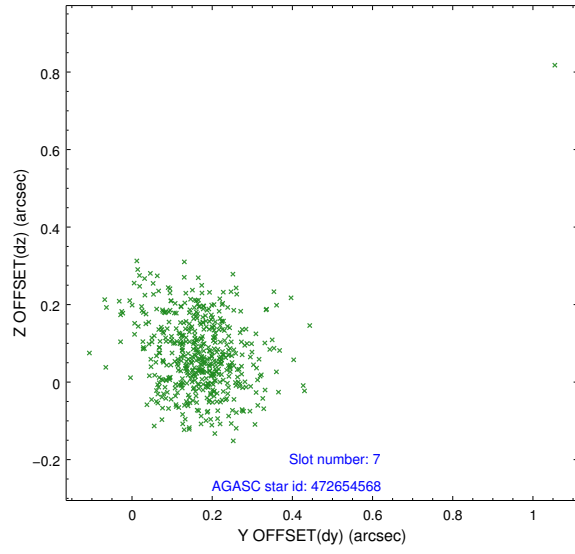
### 2.4.3 Slot 5



## 2.4.4 Slot 6

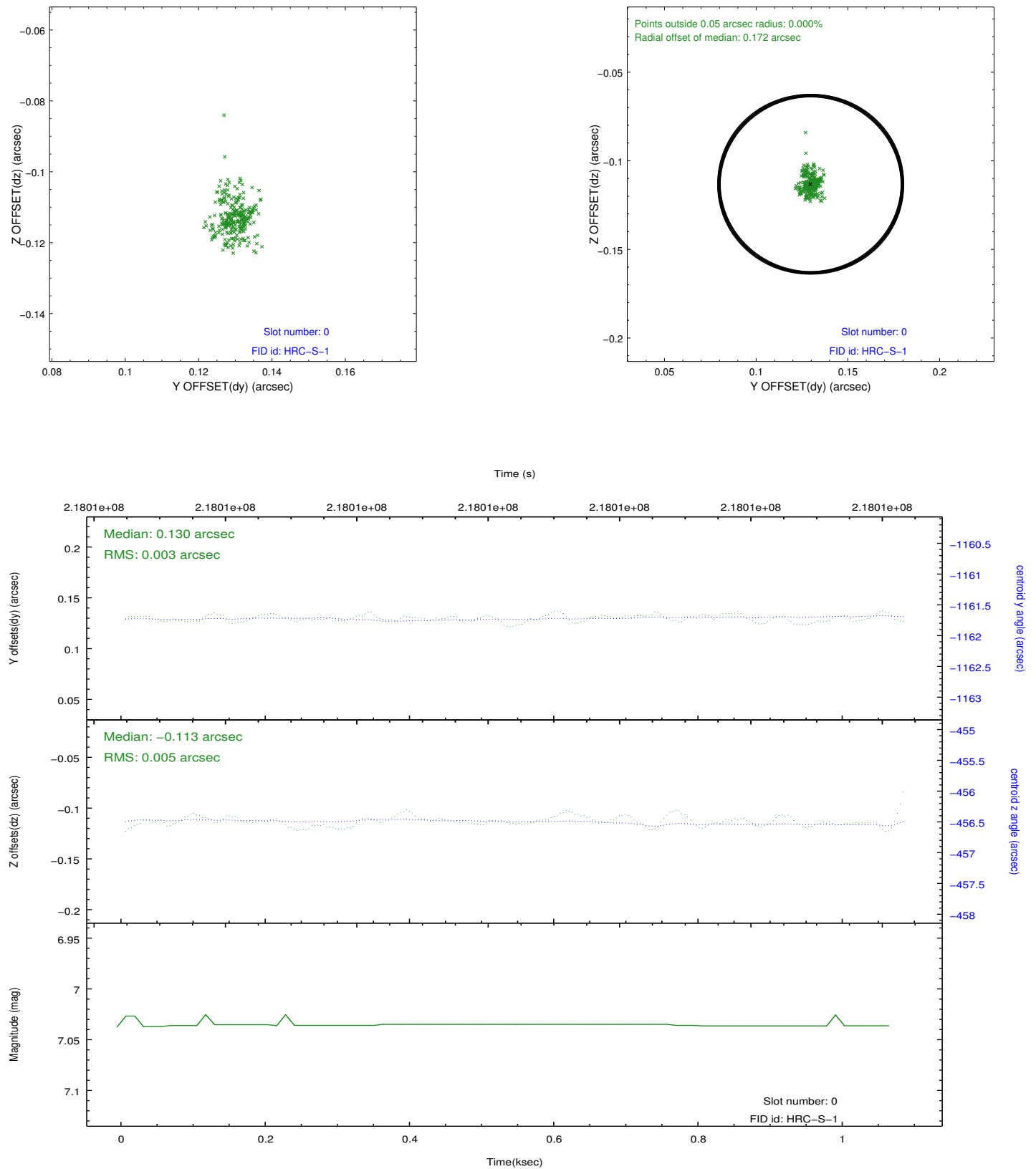


## 2.4.5 Slot 7

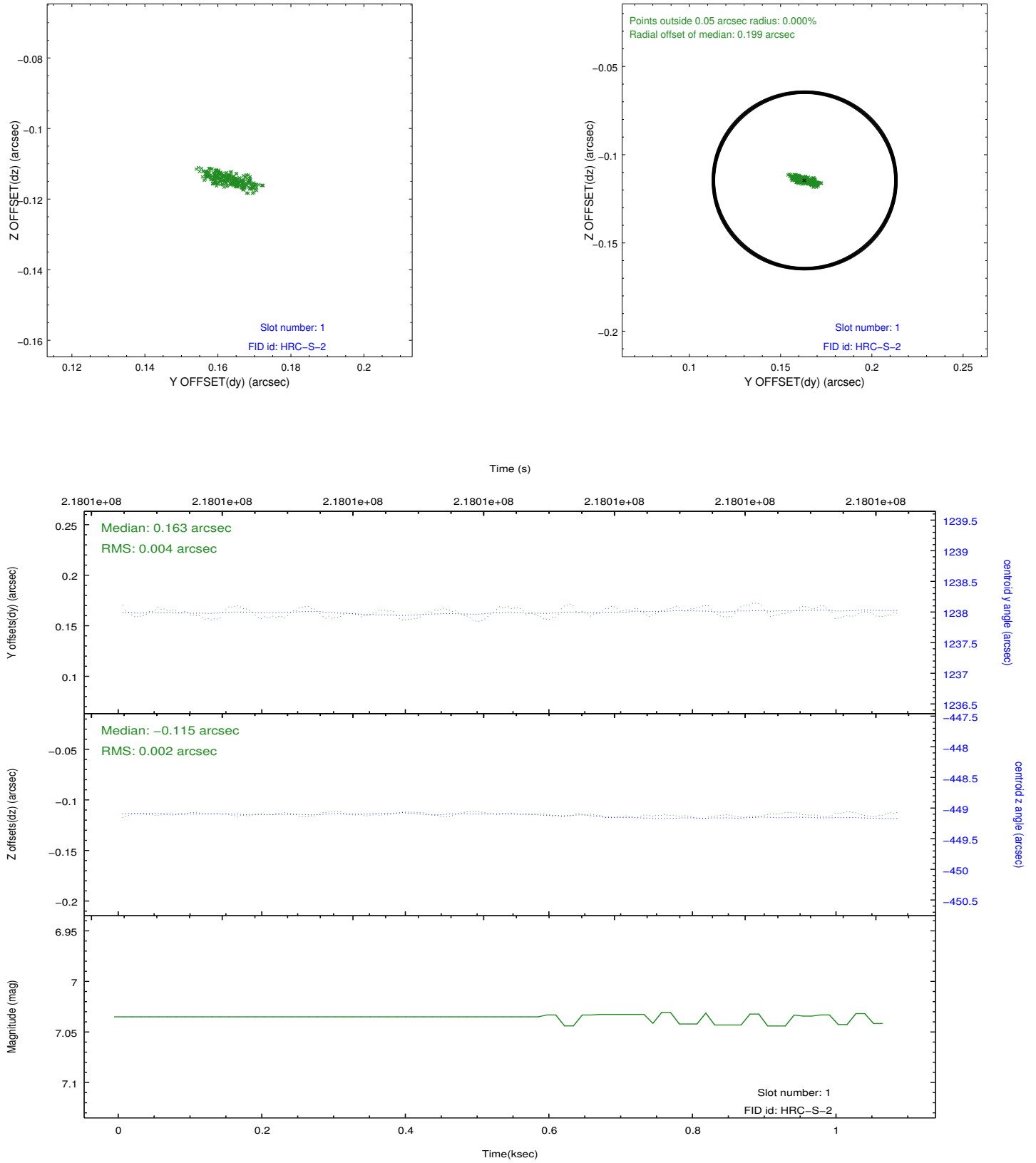


## 2.5 FID Slots

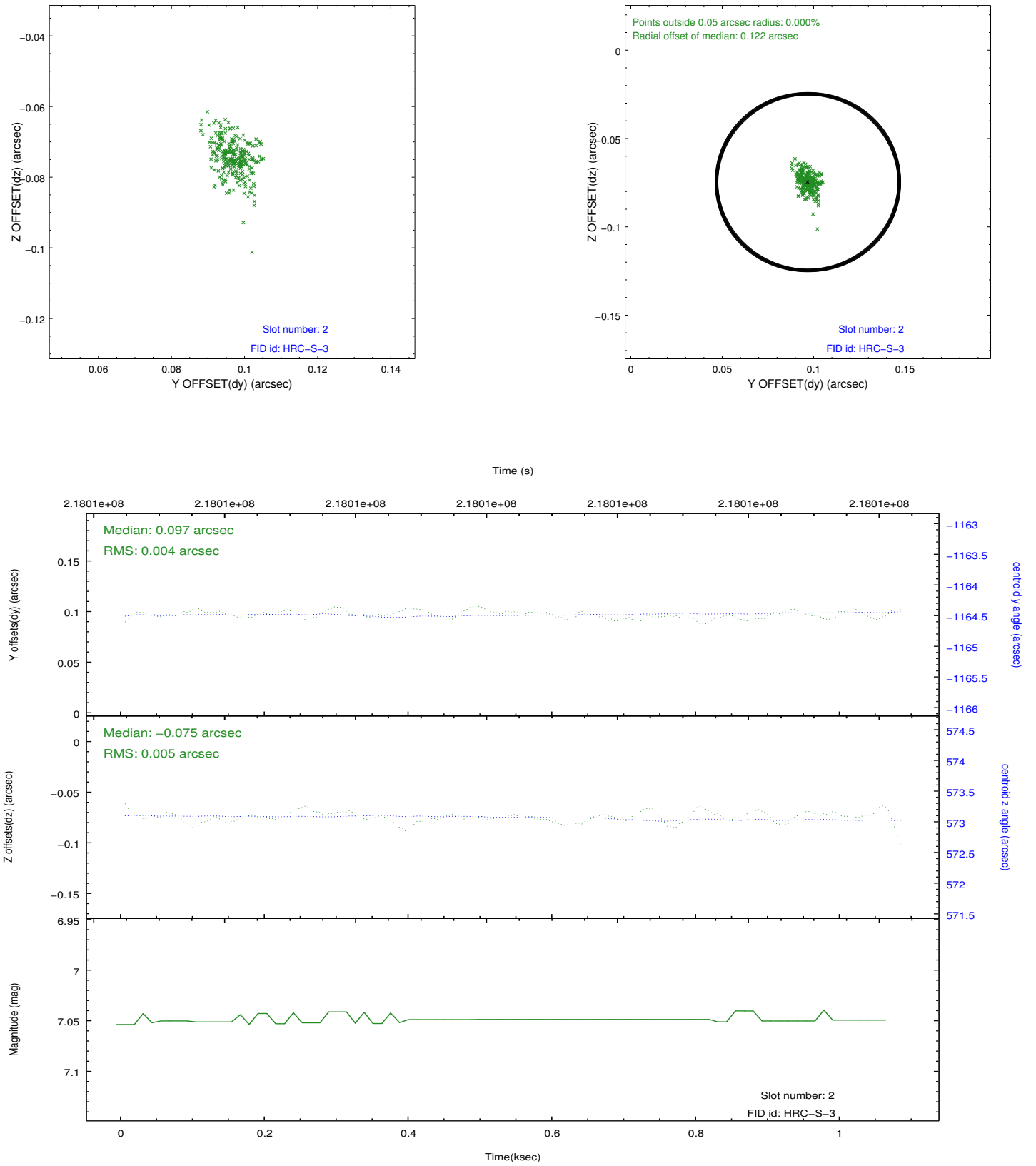
### 2.5.1 Slot 0



## 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)	2013.01.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.079581

### A.2 Comments

Window constraint met.