

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2878 - L2 Version 4  
Chandra X-Ray Center

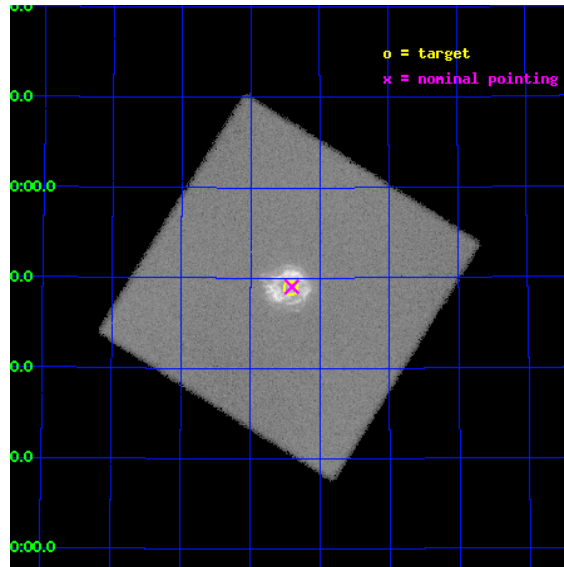
L2 Processing Date : Oct 13 2012

## 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

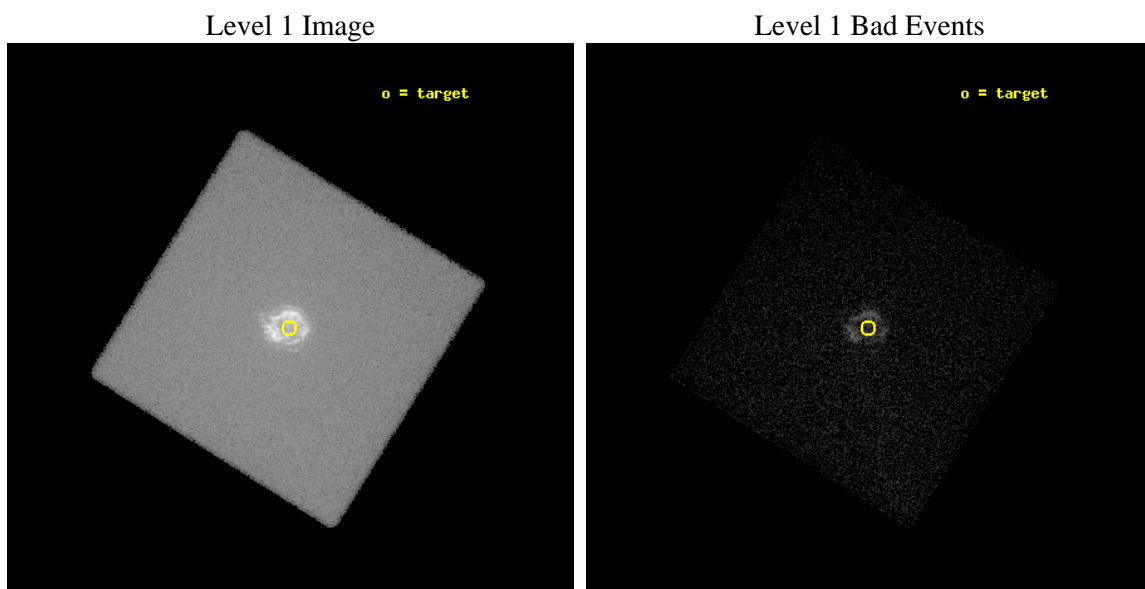
seq_num	590267	Sequence number
obs_id	2878	Observation id
title	AO3B CALIBRATION OBSERVATIONS THE STANDARD CANDLES CAS A AND G21.5-09	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	CAS A [HRC-I, Offsets=0,0,0]	Source name
ra_targ	350.8575	Observer's specified target RA [deg]
dec_targ	58.814833	Observer's specified target Dec [deg]
ra_nom	350.85077865407	Nominal RA [deg]
dec_nom	58.817362605089	Nominal Dec [deg]
roll_nom	167.0912779754	Nominal Roll [deg]
revision	4	Processing version of data
ontime	4889.5064517558	[s]
livetime	1408.2856955886	Ontime multiplied by DTCOR
l2events	736072	Number of level 2 events



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	2	Obi number	sched_exp_time	5017.850000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4889.5064517558	[s]
caldbver	4.5.2	&#160	l1events	968369	Number of level 1 events
date	2012-10-13T05:13:55	Date and time of file creation			
revision	4	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

	<b>segment 0</b>
level 1 events	968369
rejected events	66797
rejected %	6%

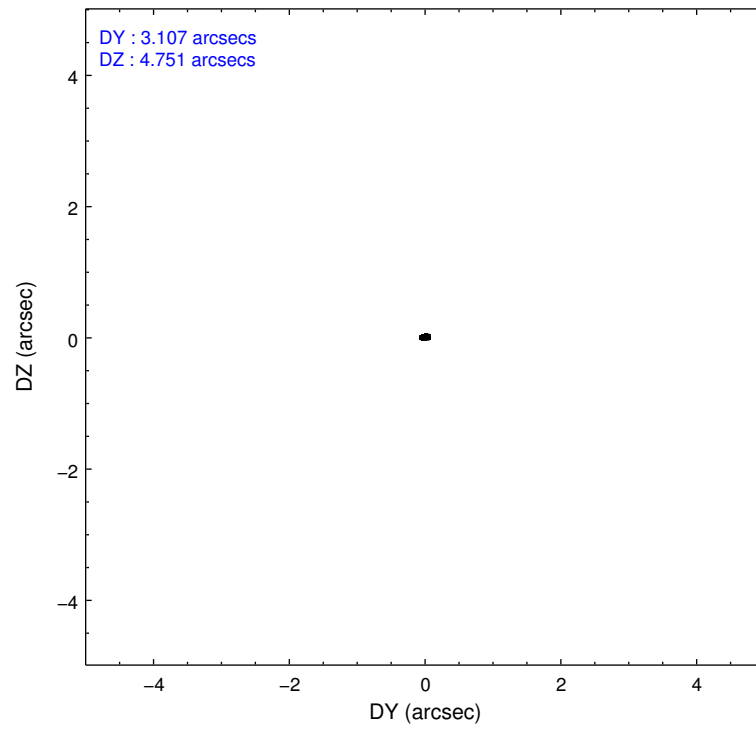
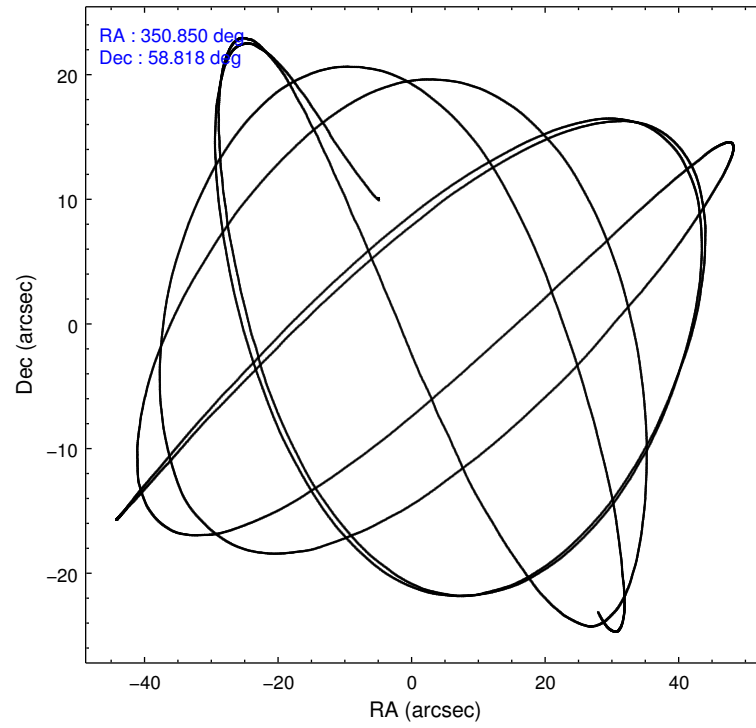


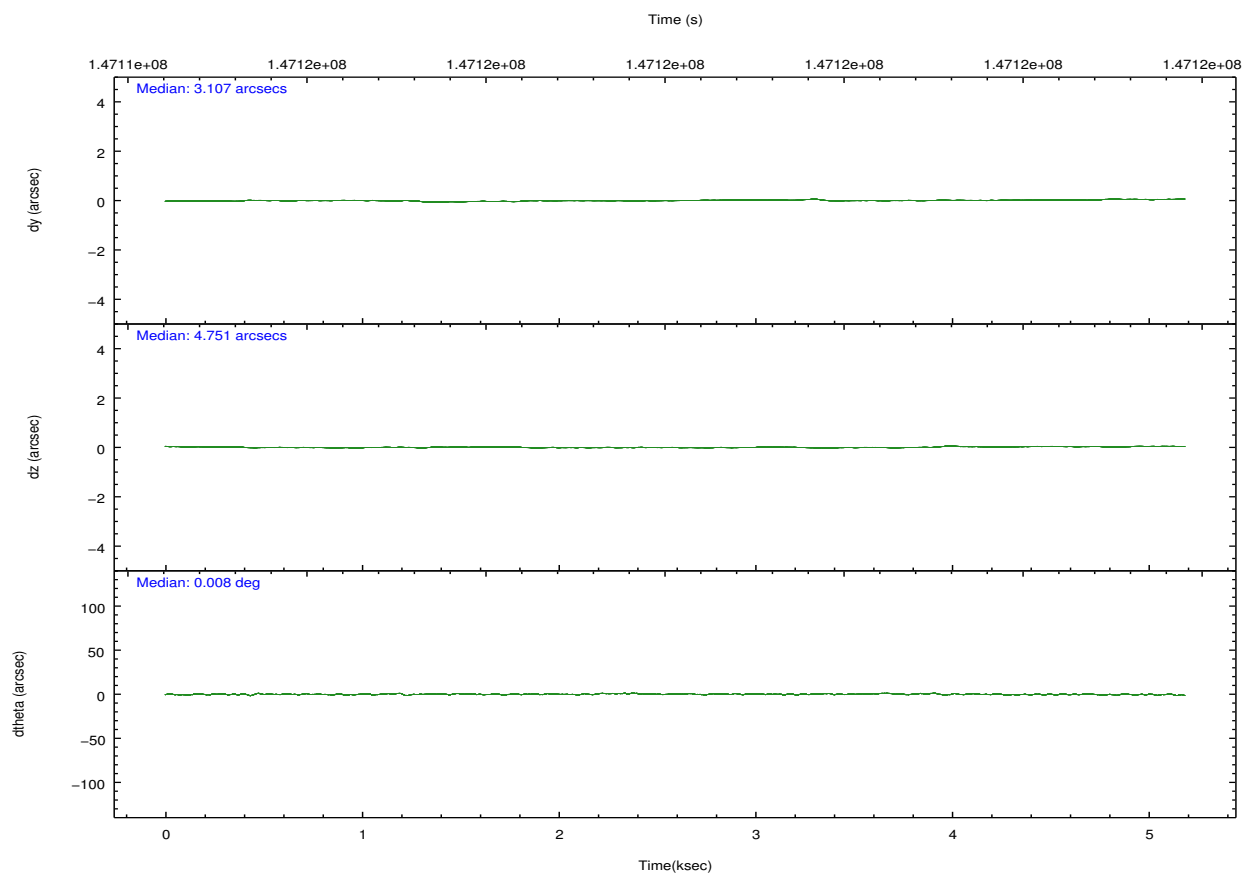
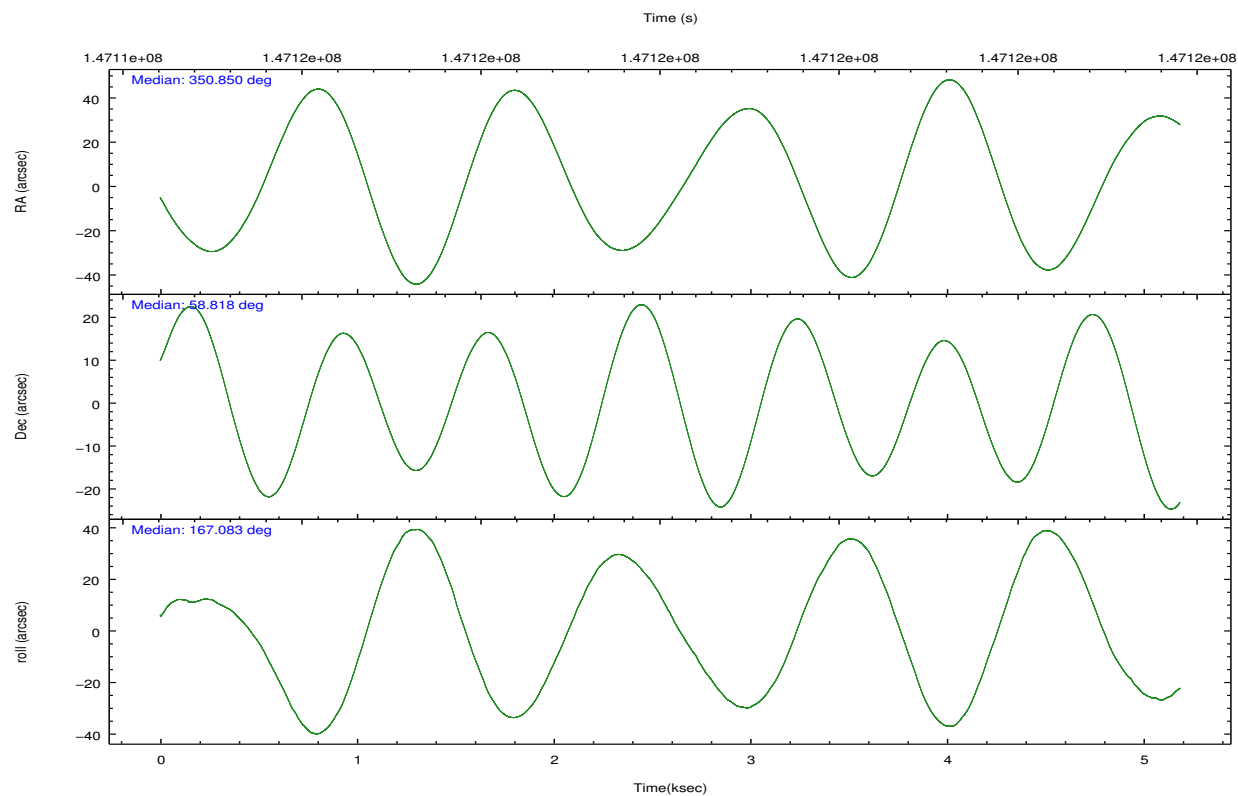
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-I	HRC-I
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	350.900632	350.8507786540671
[deg] Pointing Dec	58.825817	58.81736260508884
[deg] Pointing Roll	167.144103	167.0912779754038
[s] Window start time (MET)	141868864.184000	141868864.184000
[s] Window stop time (MET)	147139264.184000	147139264.184000
[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)	147114627.184000	147114220.96226
Observation start date	2002-08-30T17:09:23	2002-08-30T17:03:40
[s] Observation end time (MET)	147119645.184000	147119959.93749
Observation end date	2002-08-30T18:33:01	2002-08-30T18:39:19

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

## 2.3 Aspect



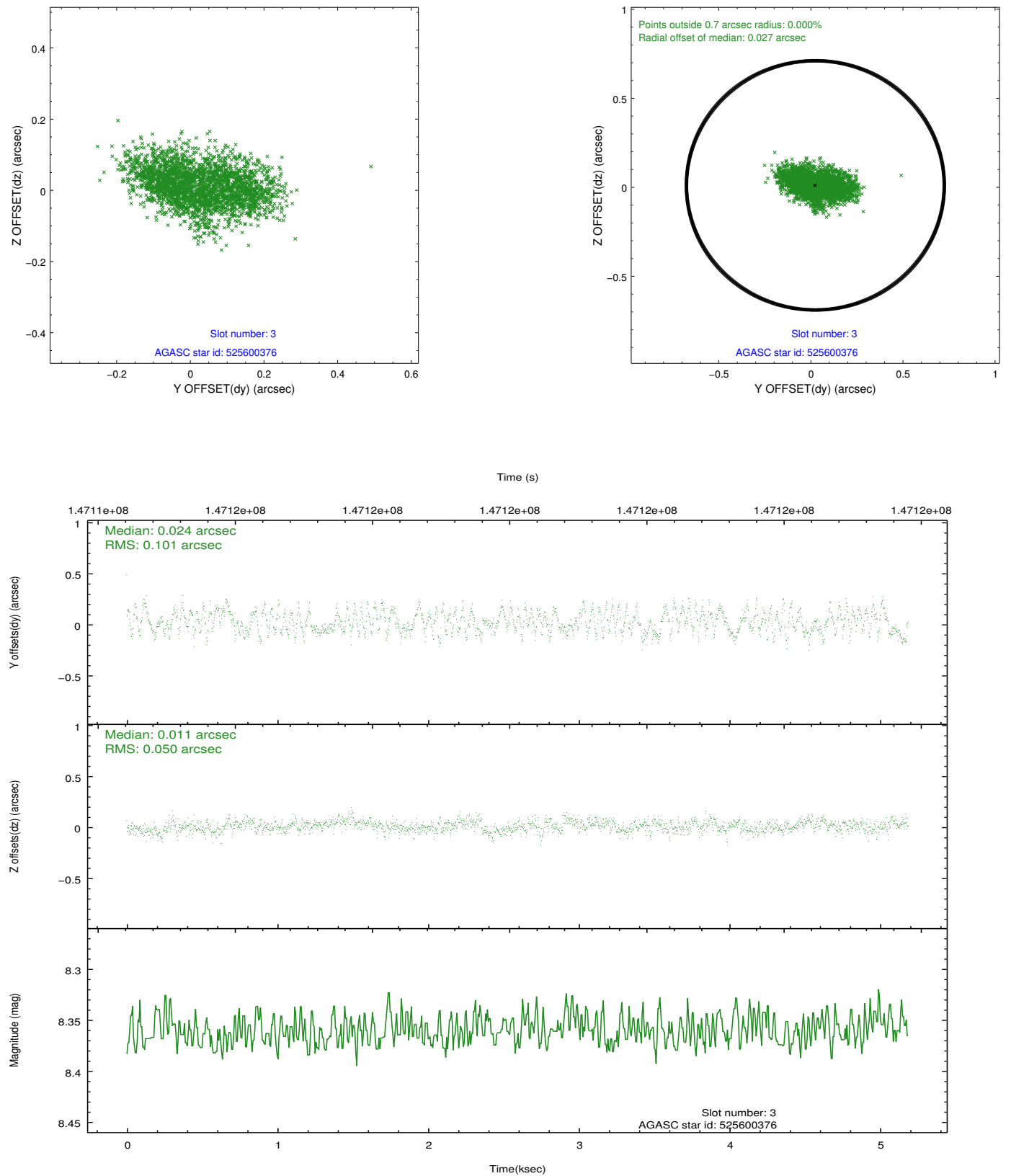


### Slot Statistics

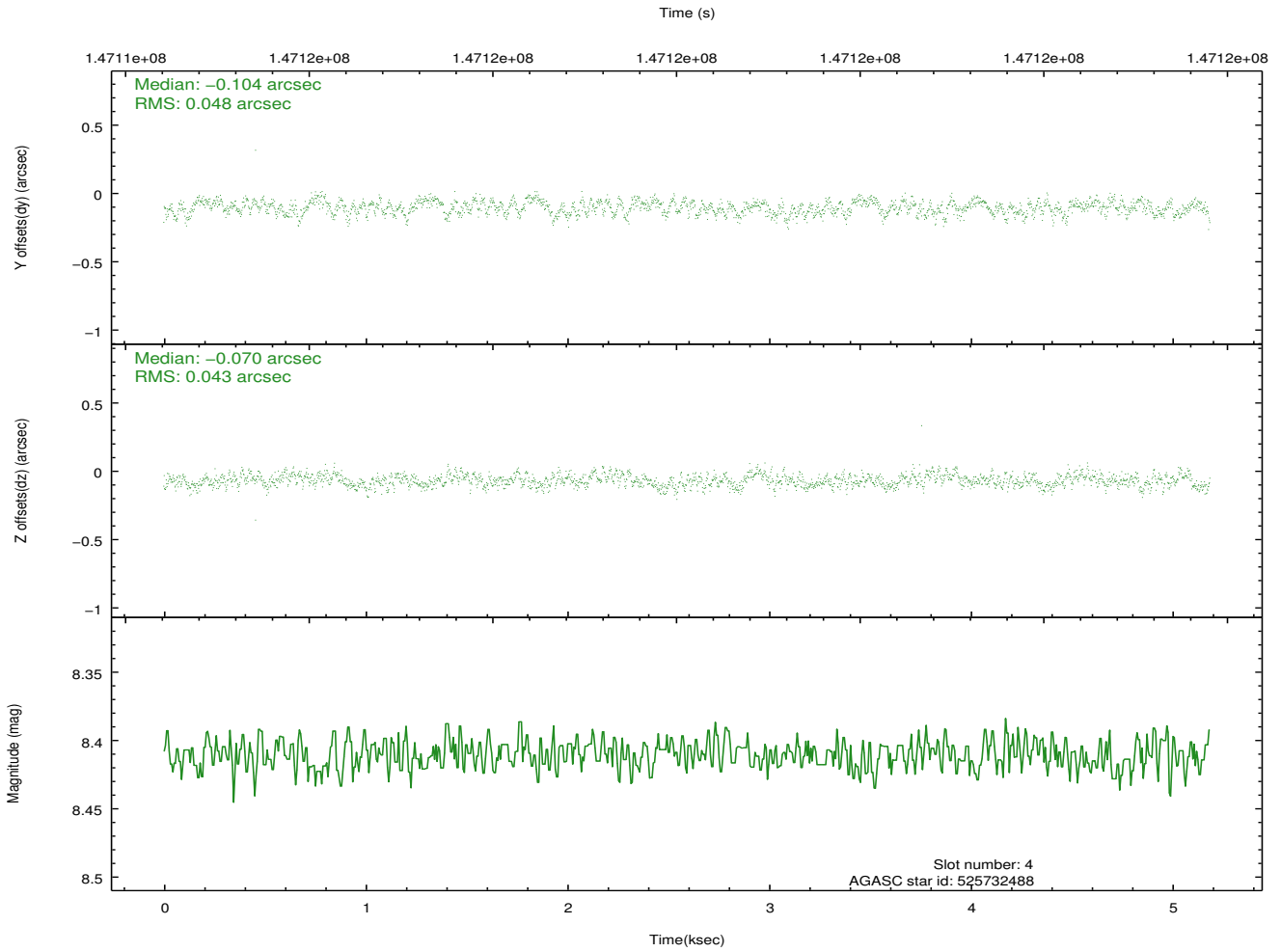
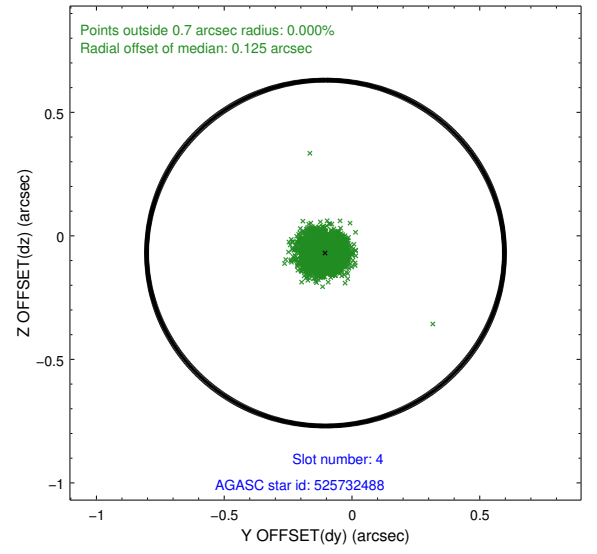
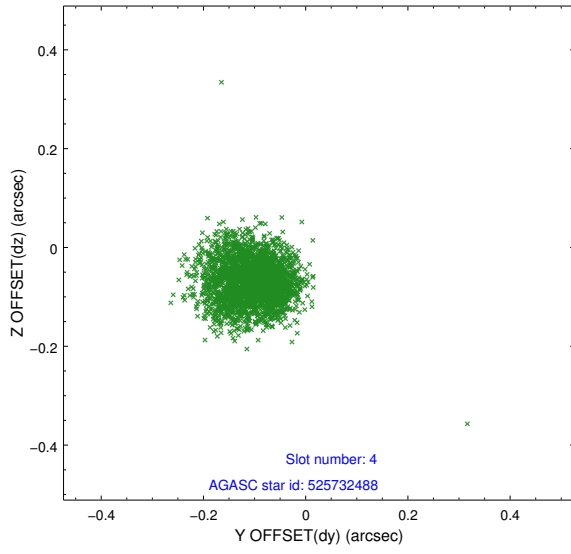
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	6.99	1265	0.004	0.052	0.007	0.012	0.000000	0.000000	-758.57	-1292.50
1	FID	HRC-I-2	7.03	1265	0.086	-0.060	0.006	0.010	0.000000	0.000000	853.55	-1295.18
2	FID	HRC-I-3	7.08	1265	0.029	-0.081	0.006	0.011	0.000000	0.000000	-1186.38	1010.91
3	GUIDE	525600376	8.36	2531	0.024	0.011	0.122	0.194	349.956653	59.633357	2323.64	-2463.31
4	GUIDE	525732488	8.41	2530	-0.104	-0.070	0.069	0.107	350.087090	58.516915	1245.03	1414.85
5	GUIDE	525609504	9.08	2531	-0.128	-0.187	0.093	0.152	349.896632	58.356658	1474.84	2055.61
6	GUIDE	525732528	9.37	2530	0.102	0.187	0.107	0.171	351.607241	59.298932	-886.06	-1955.06
7	GUIDE	525734296	9.50	2527	0.108	0.057	0.105	0.173	351.276372	58.418153	-1018.51	1270.65

## 2.4 Star Slots

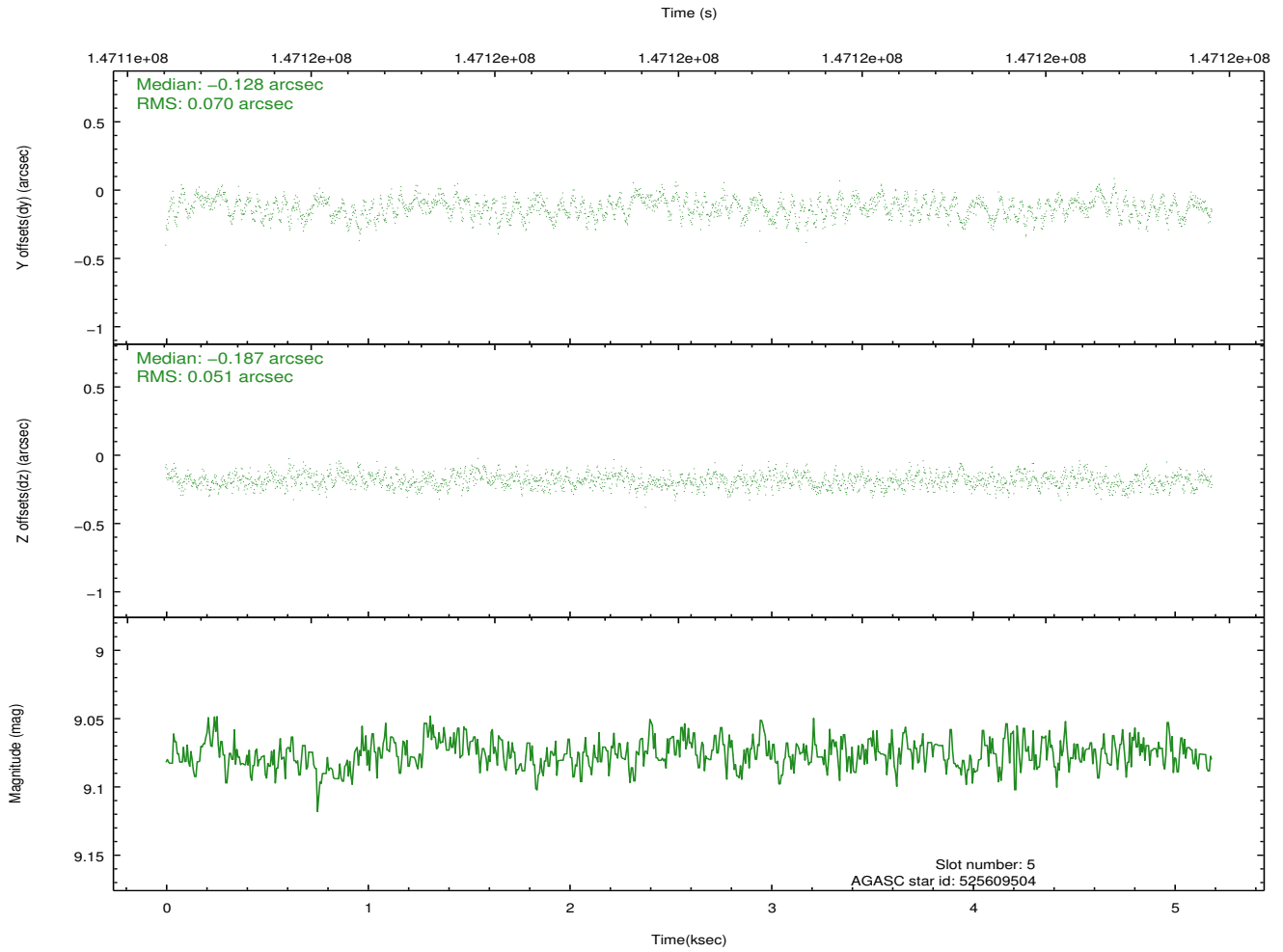
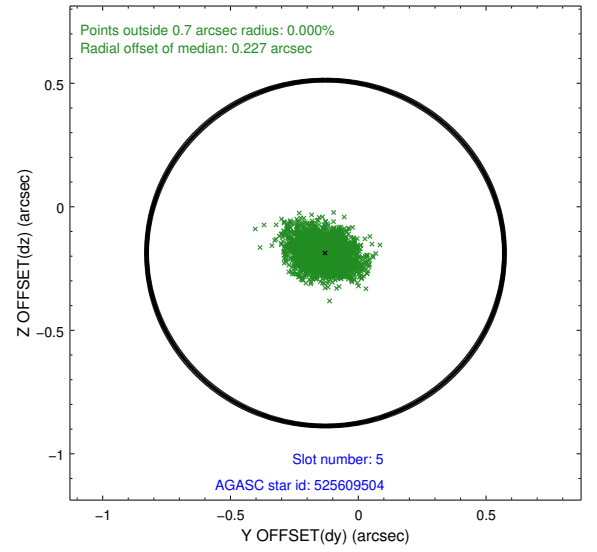
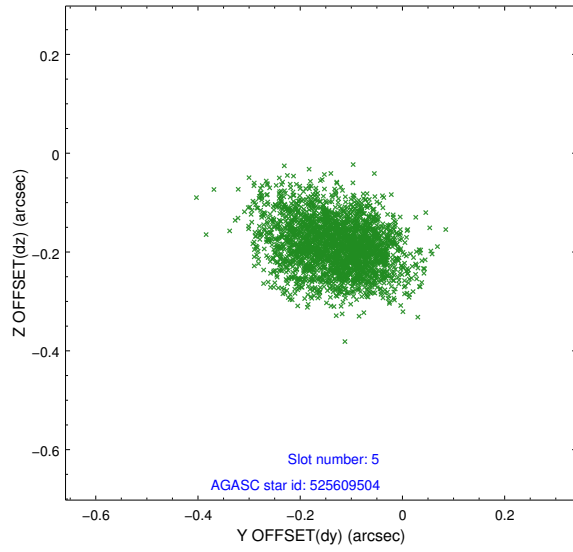
### 2.4.1 Slot 3



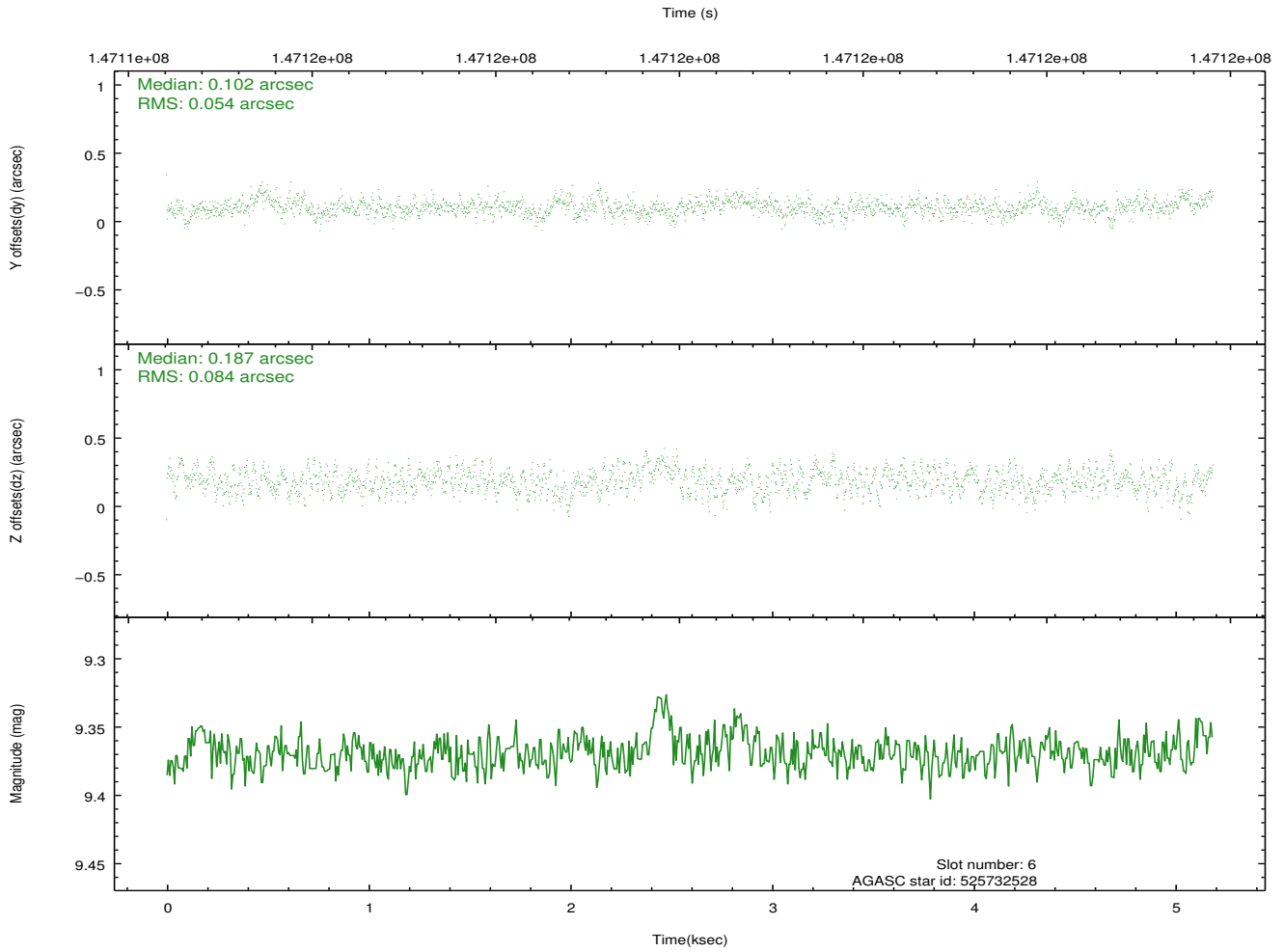
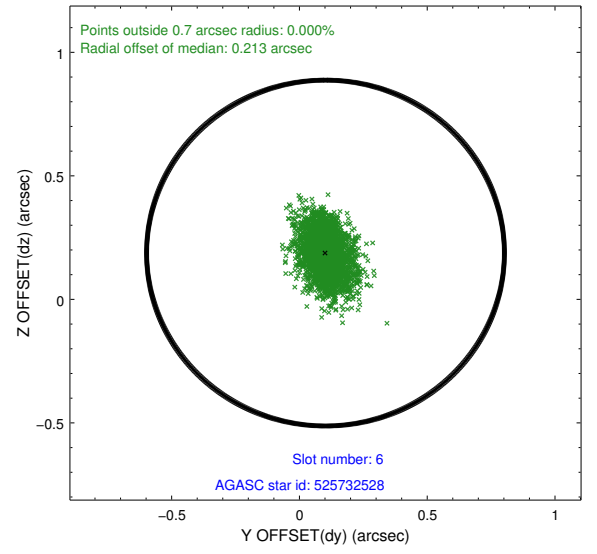
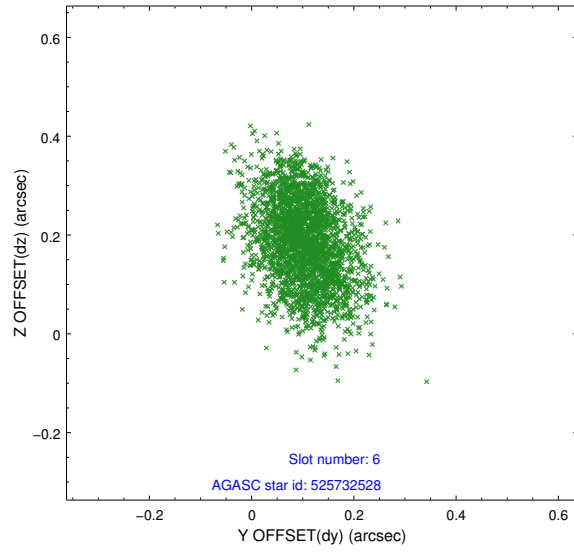
## 2.4.2 Slot 4



### 2.4.3 Slot 5

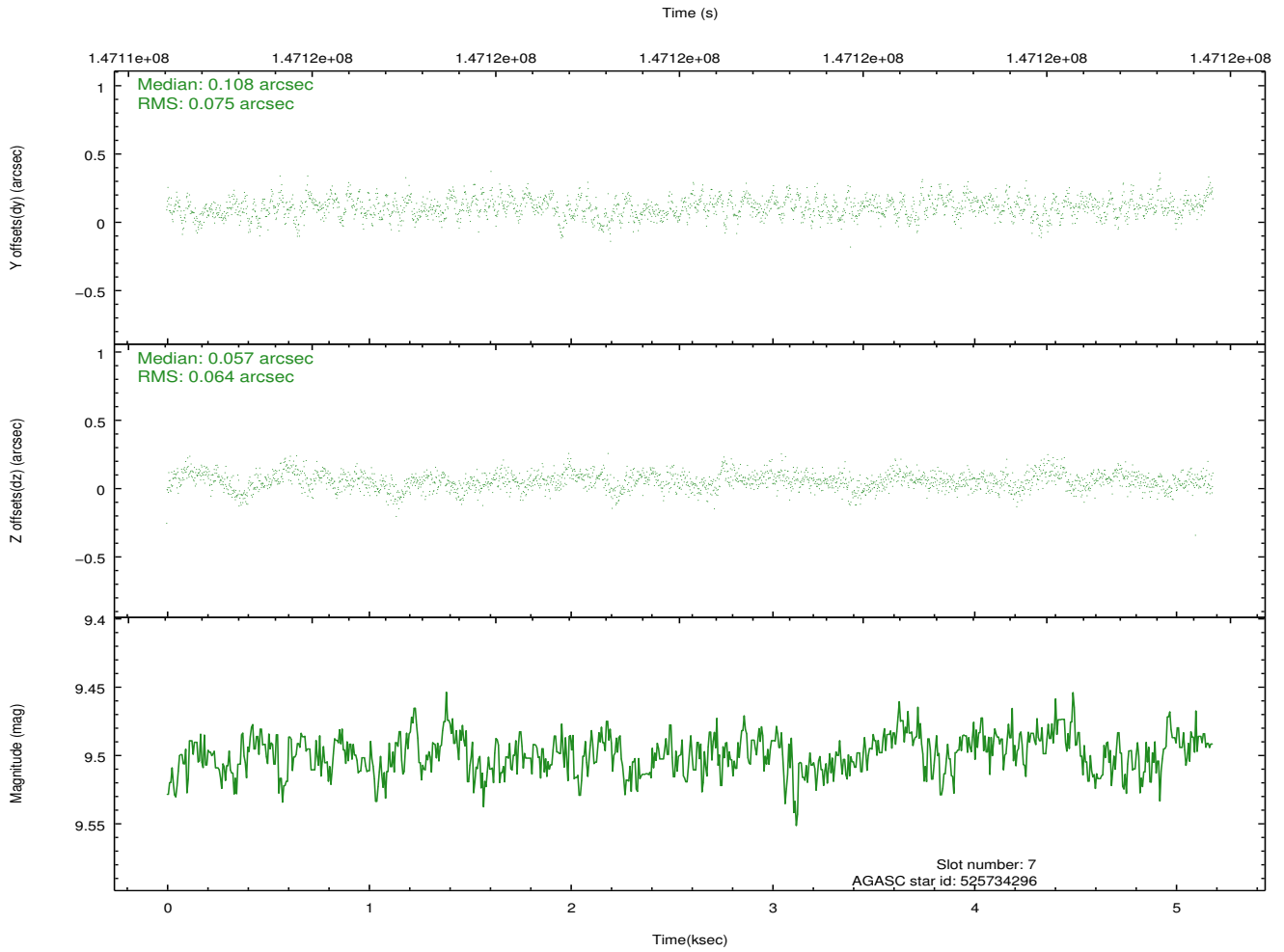
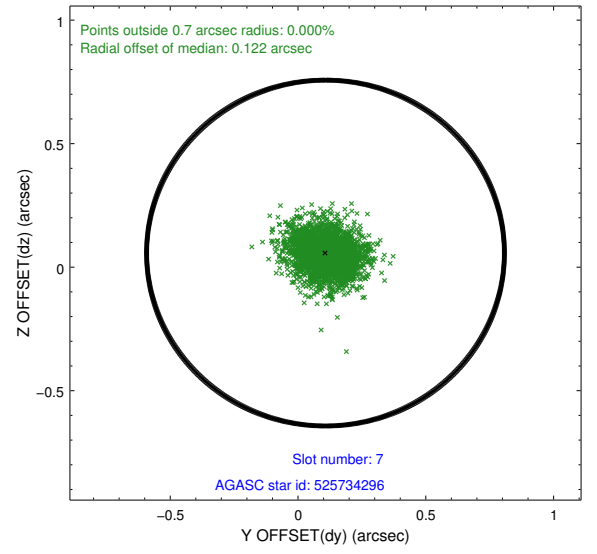
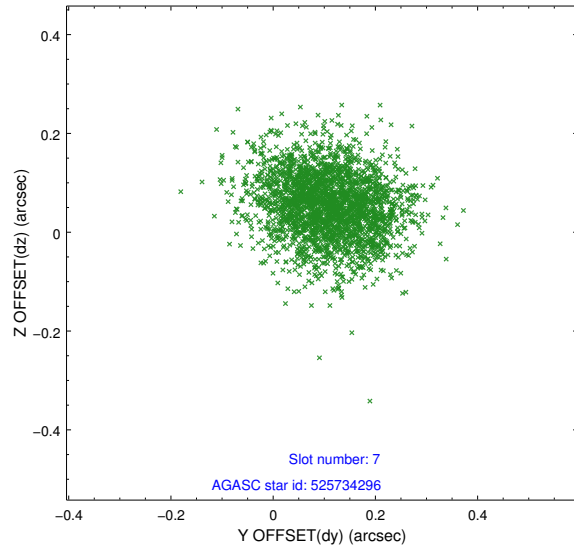


## 2.4.4 Slot 6



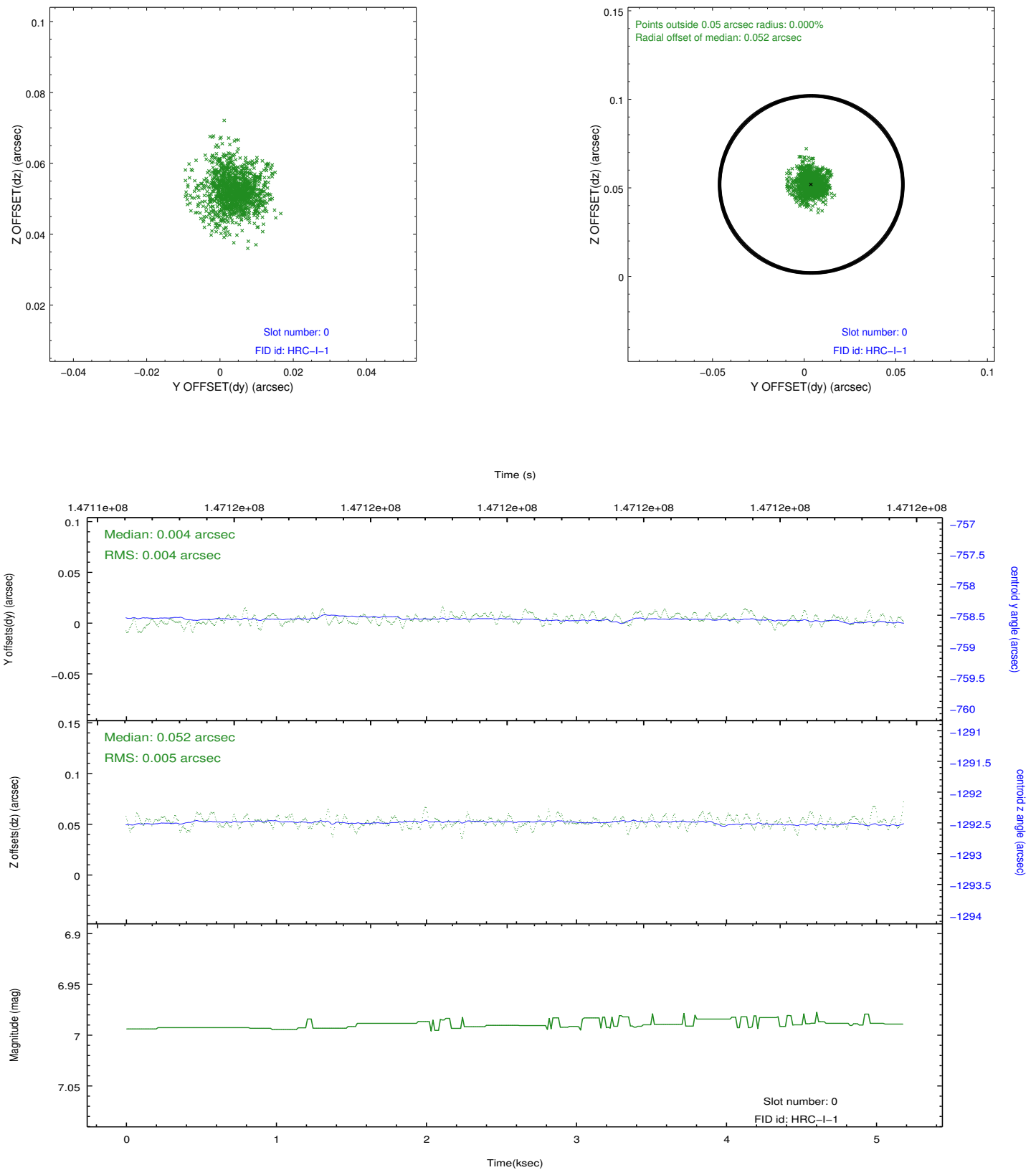


## 2.4.5 Slot 7

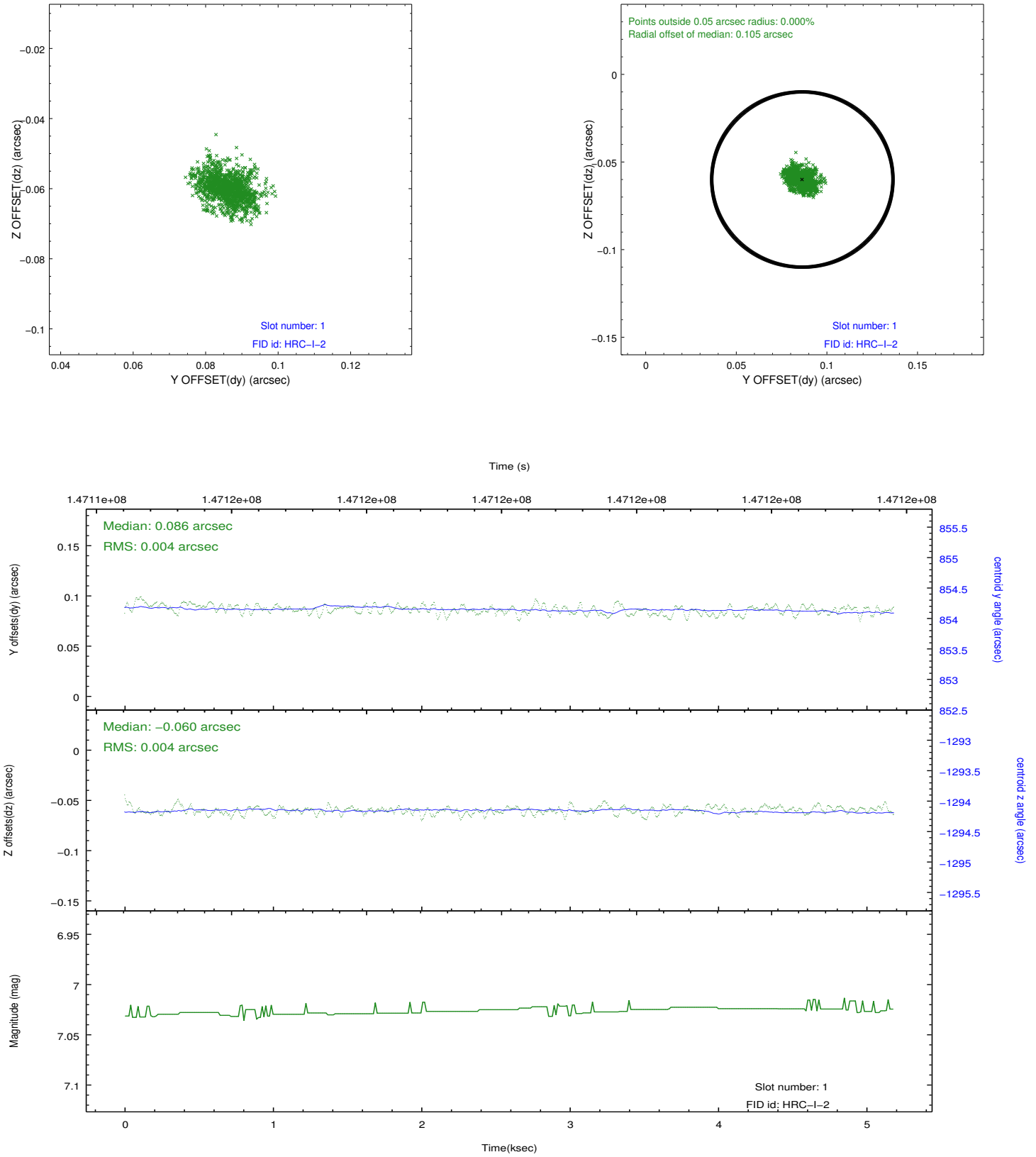


## 2.5 FID Slots

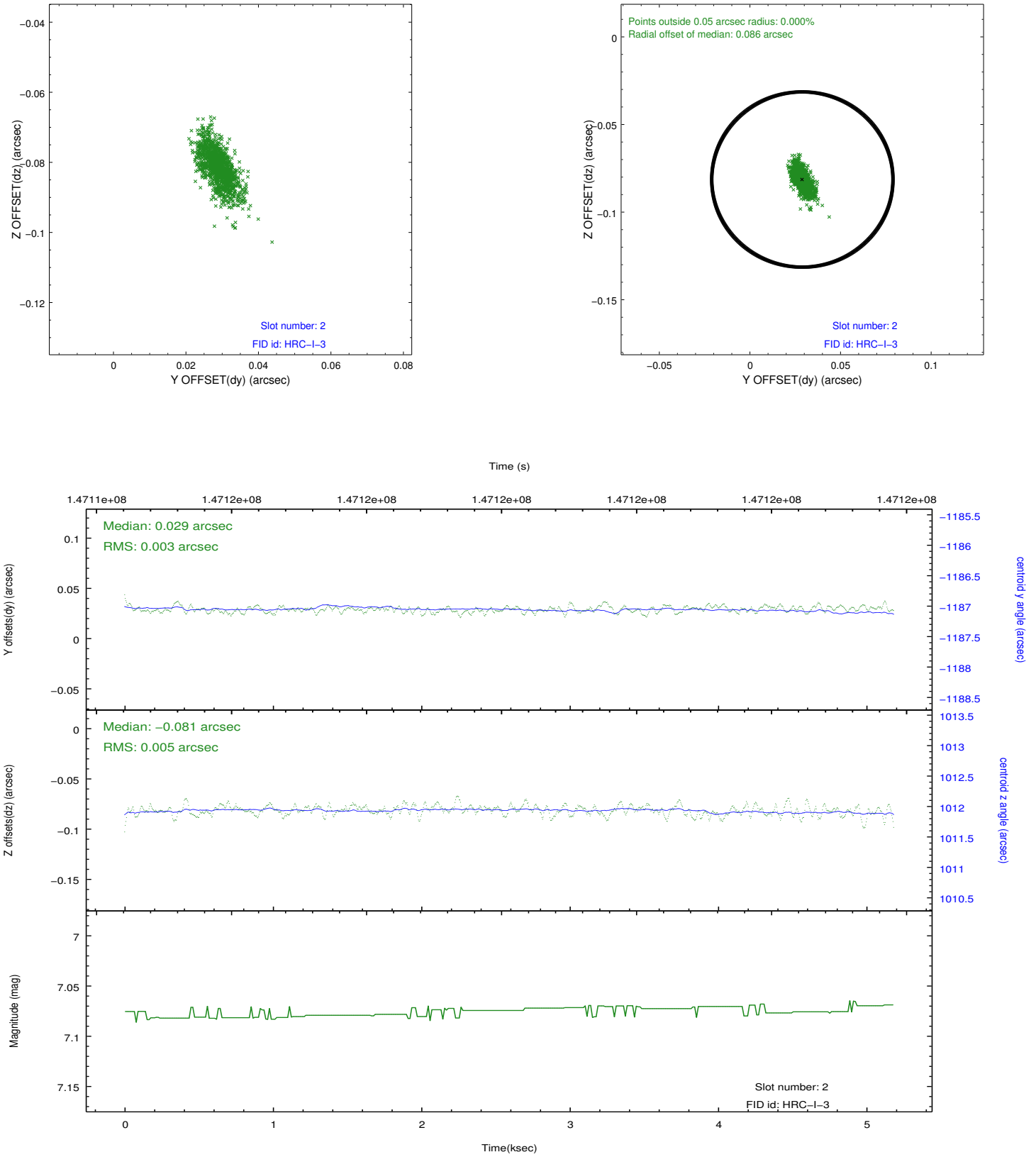
### 2.5.1 Slot 0



## 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)	2012.10.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.889

### A.2 Comments

Window preference met.