

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 1707 - L2 Version 4  
Chandra X-Ray Center

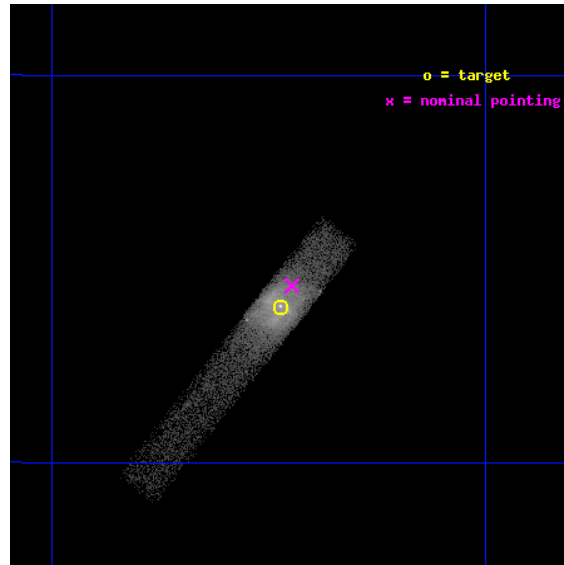
L2 Processing Date : Aug 28 2012

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# 1 Front

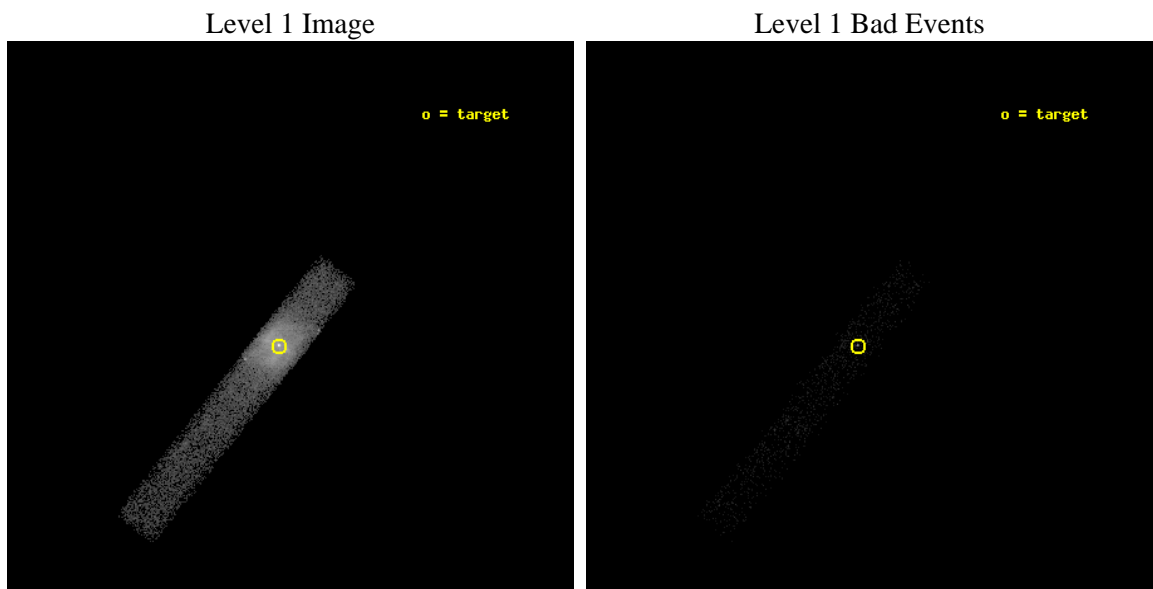
seq_num	700264	Sequence number
obs_id	1707	Observation id
title	STUDIES OF RADIO JETS AND THE NARROW LINE REGIONS	Proposal title
observer	Professor Andrew Wilson	Principal investigator
object	CYGNUS A	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	299.867917	Observer's specified target RA [deg]
dec_targ	40.733889	Observer's specified target Dec [deg]
ra_nom	299.86172370582	Nominal RA [deg]
dec_nom	40.742722799116	Nominal Dec [deg]
roll_nom	128.47226053178	Nominal Roll [deg]
revision	4	Processing version of data
ontime	10174.800151616	Sum of GTIs [s]
liveltime	9228.006667528	Livetime [s]
ontime7	10174.800151616	Sum of GTIs [s]
l2events	38629	Number of level 2 events



## 2 OBI

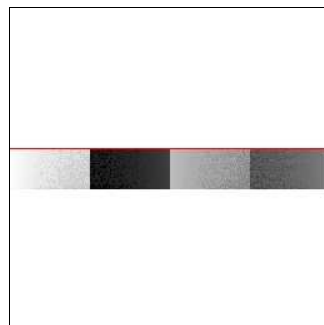
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	10174.800151616	Sum of GTIs [s]
caldsver	4.5.1.1	&#160	ontime7	10174.800151616	Sum of GTIs [s]
date	2012-08-28T05:16:08	Date and time of file creation	l1events	46347	Number of level 1 events
revision	4	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	46347
rejected events	7200
rejected %	15%

	<b>ccd 7</b>
grade 0 events	9847
	21%
grade 1 events	27
	0%
grade 2 events	9973
	21%
grade 3 events	4876
	10%
grade 4 events	4786
	10%
grade 5 events	1253
	2%
grade 6 events	10557
	22%
grade 7 events	5028
	10%

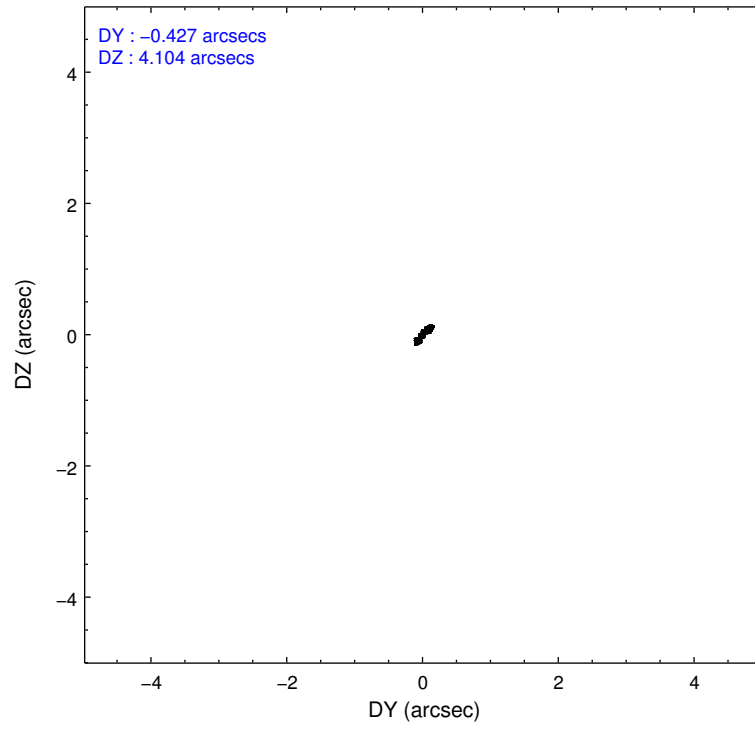
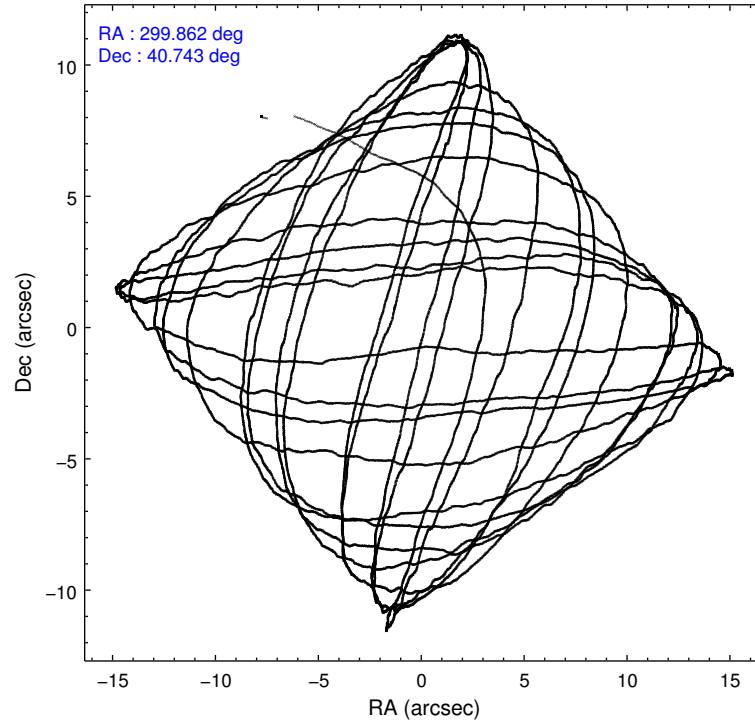


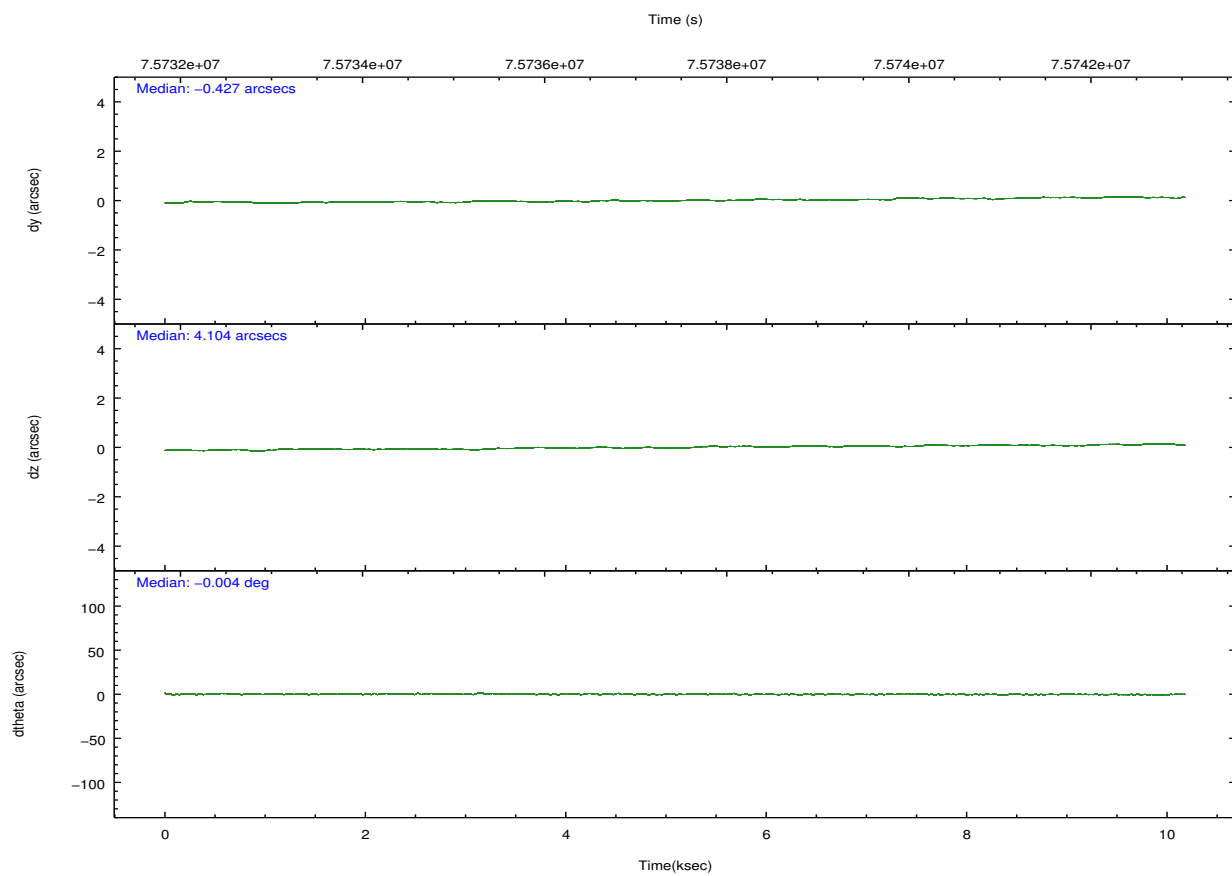
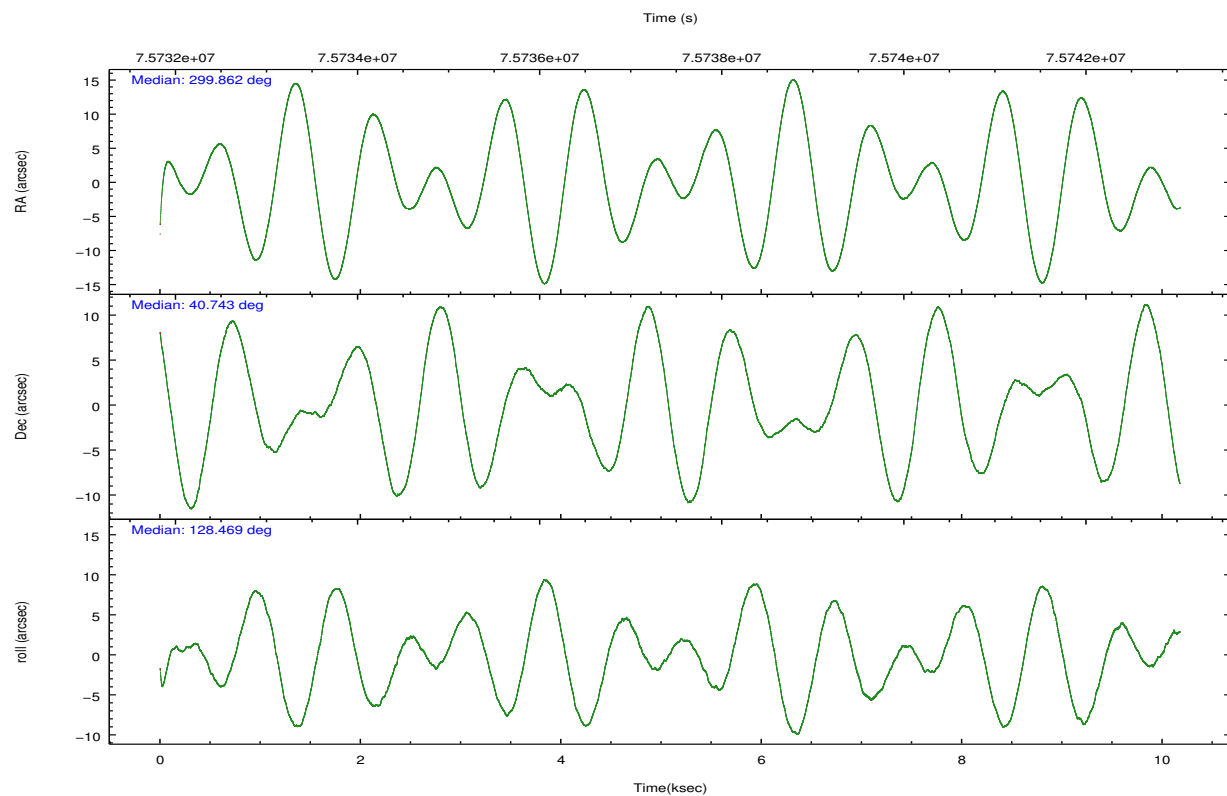
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-7	ACIS-7
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	299.895457	299.8617237058249
[deg] Pointing Dec	40.732742	40.74272279911606
[deg] Pointing Roll	128.293621	128.4722605317759
[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)	75732522.184000	75731319.864334
Observation start date	2000-05-26T12:47:38	2000-05-26T12:28:39
[s] Observation end time (MET)	75742522.184000	75743236.514773
Observation end date	2000-05-26T15:34:18	2000-05-26T15:47:16
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	CUSTOM	1/8
Subarray start row	447	447
Subarray row count	128	128
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	0.4

## 2.3 Aspect



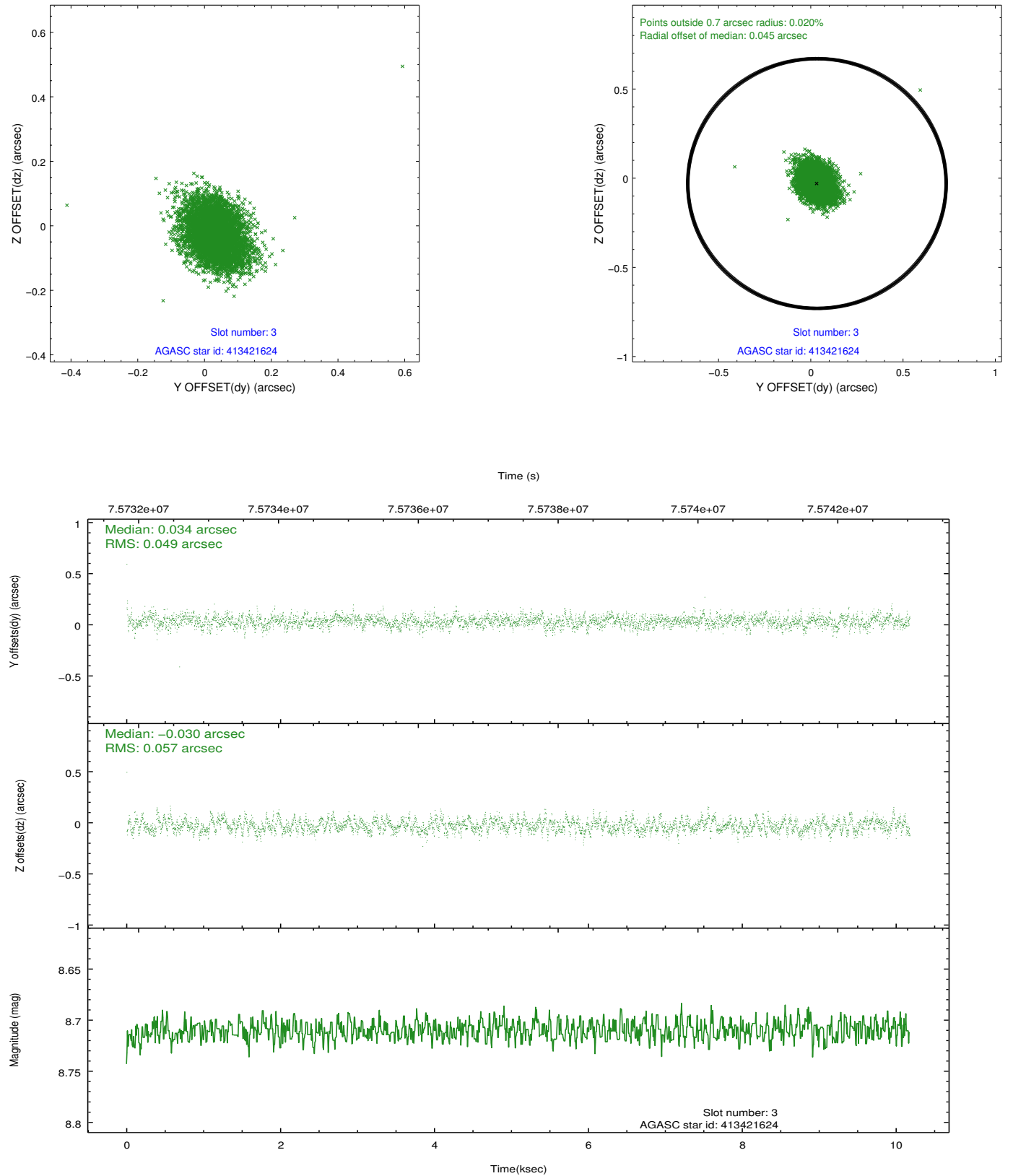


### Slot Statistics

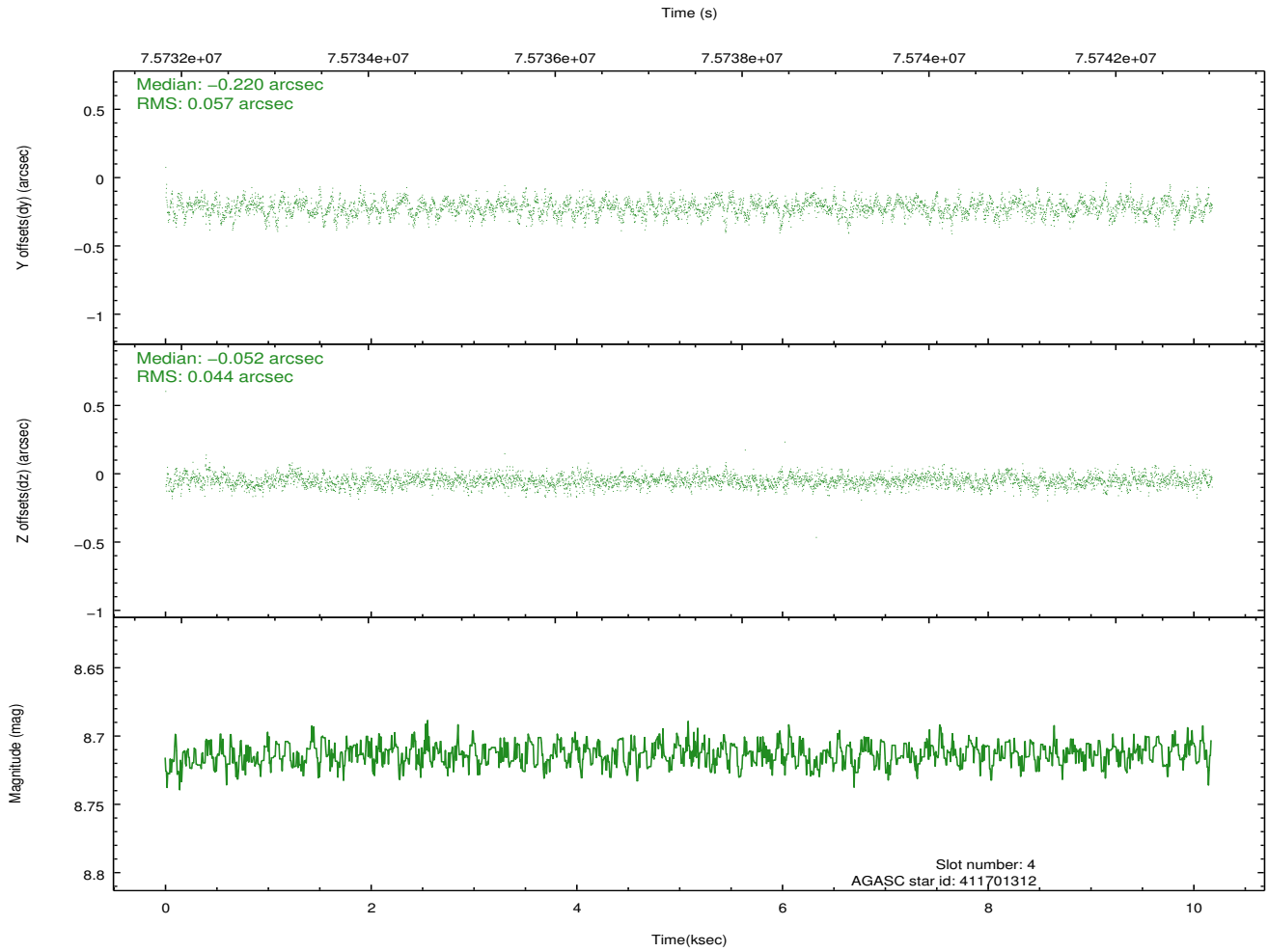
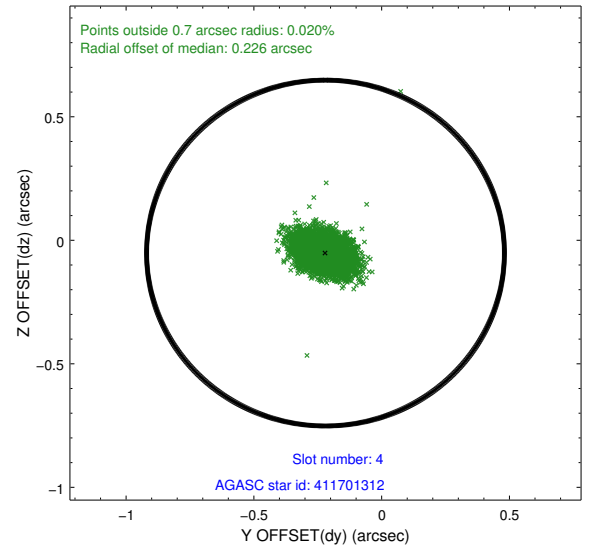
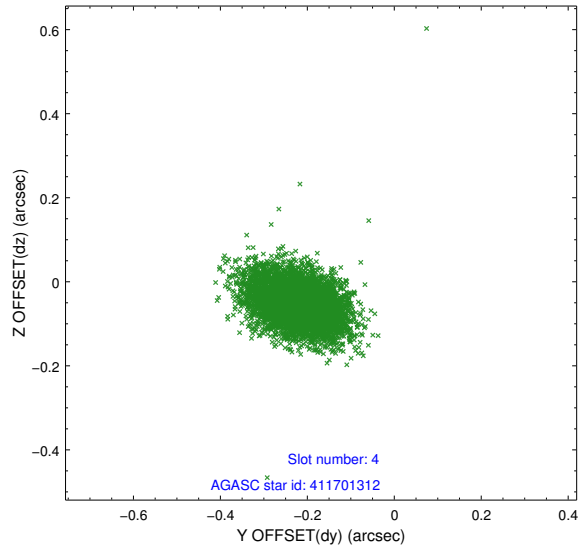
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	2483	-0.011	-0.016	0.007	0.012	0.000000	0.000000	-752.16	-1725.20
1	FID	ACIS-S-4	7.21	2483	0.026	0.010	0.007	0.012	0.000000	0.000000	2160.94	182.75
2	FID	ACIS-S-5	7.24	2482	-0.046	0.015	0.006	0.011	0.000000	0.000000	-1804.35	177.05
3	GUIDE	413421624	8.71	4962	0.034	-0.030	0.078	0.128	300.399768	40.893051	-394.66	-1437.27
4	GUIDE	411701312	8.71	4963	-0.220	-0.052	0.074	0.124	298.889956	40.820220	1956.30	1944.84
5	GUIDE	413426288	9.28	4965	0.184	0.036	0.087	0.145	300.490389	40.285080	-2272.72	-286.75
6	GUIDE	413414968	9.55	4894	0.019	0.132	0.107	0.170	300.952591	40.709216	-1841.33	-2222.52
7	GUIDE	411716544	9.55	4963	-0.013	-0.087	0.102	0.163	298.797783	40.819908	2113.31	2140.59

## 2.4 Star Slots

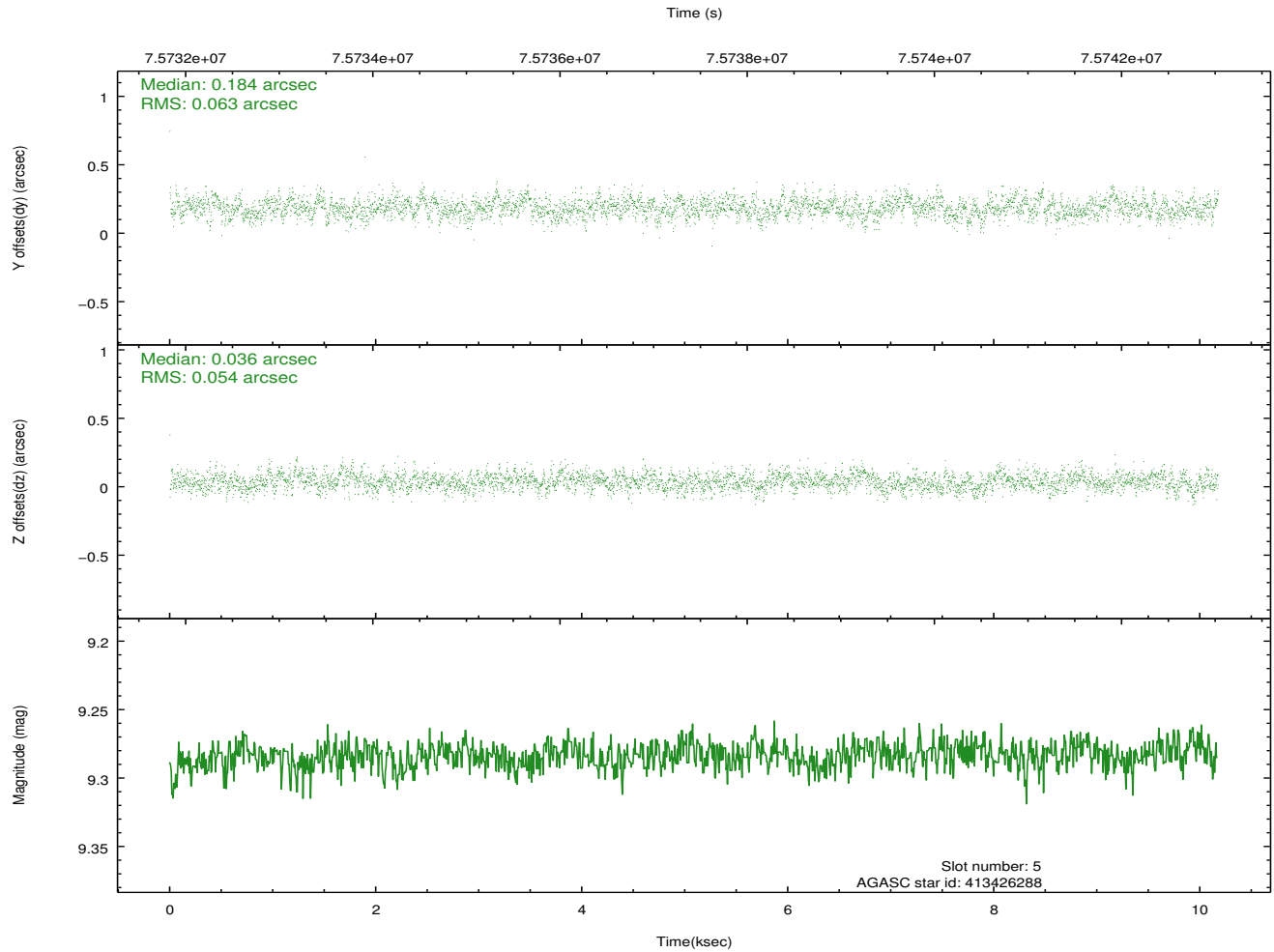
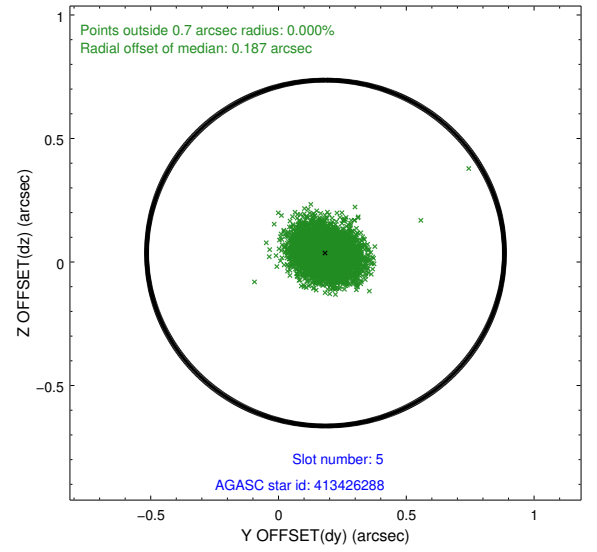
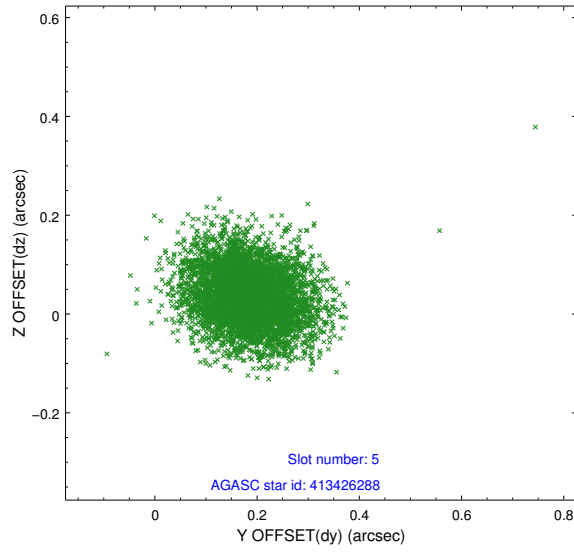
### 2.4.1 Slot 3



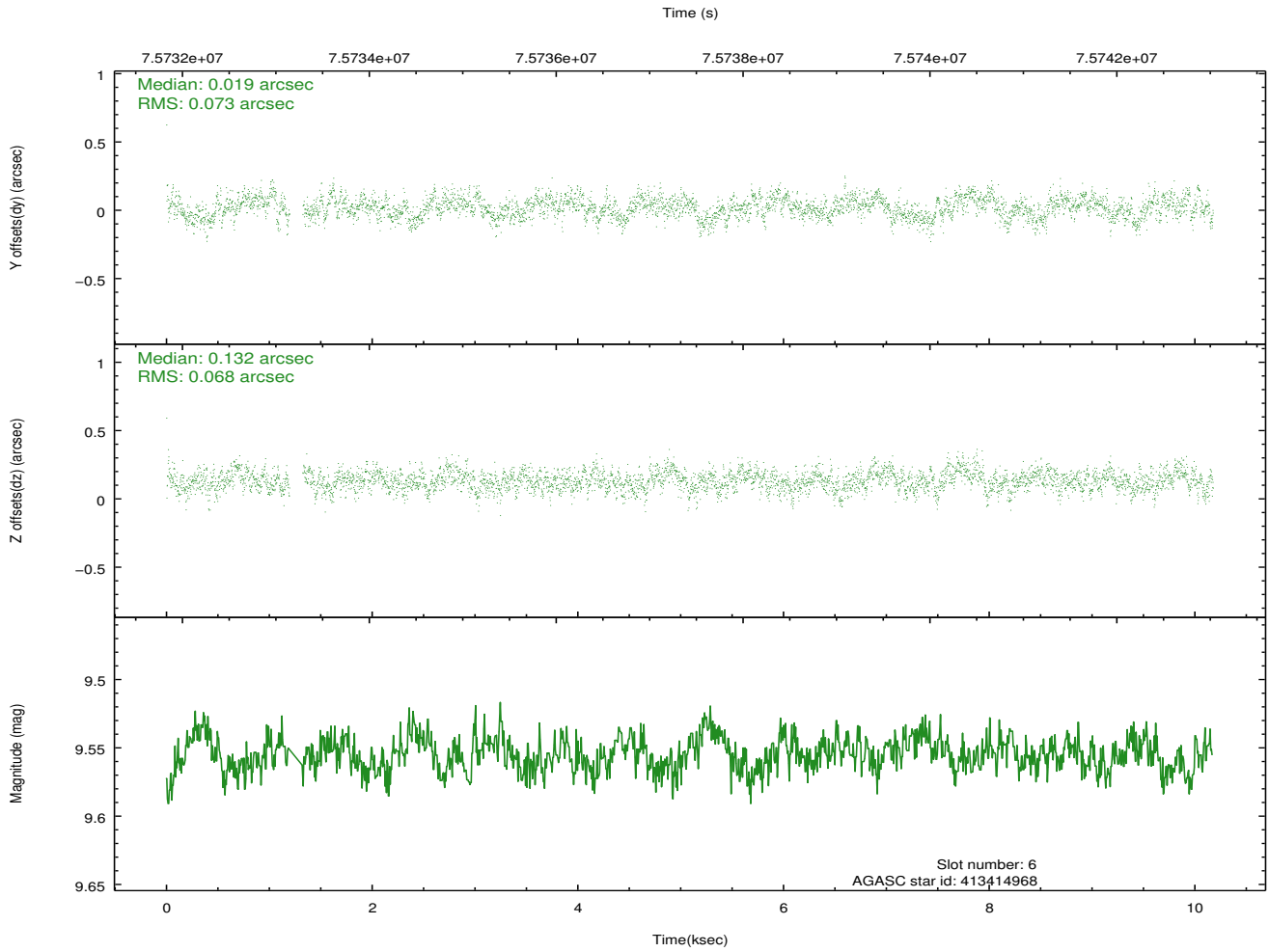
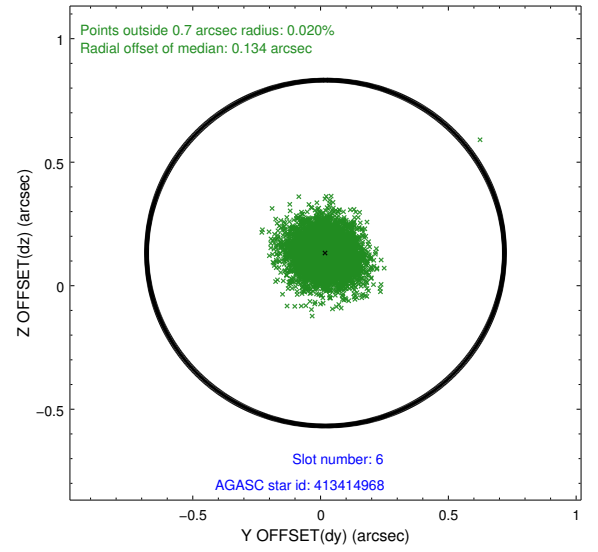
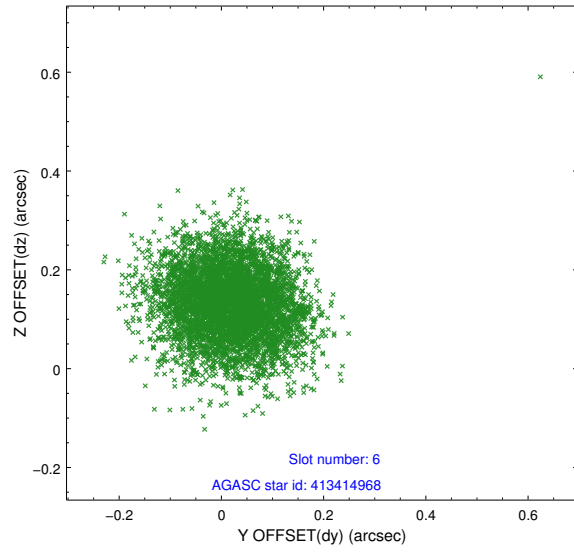
## 2.4.2 Slot 4



### 2.4.3 Slot 5

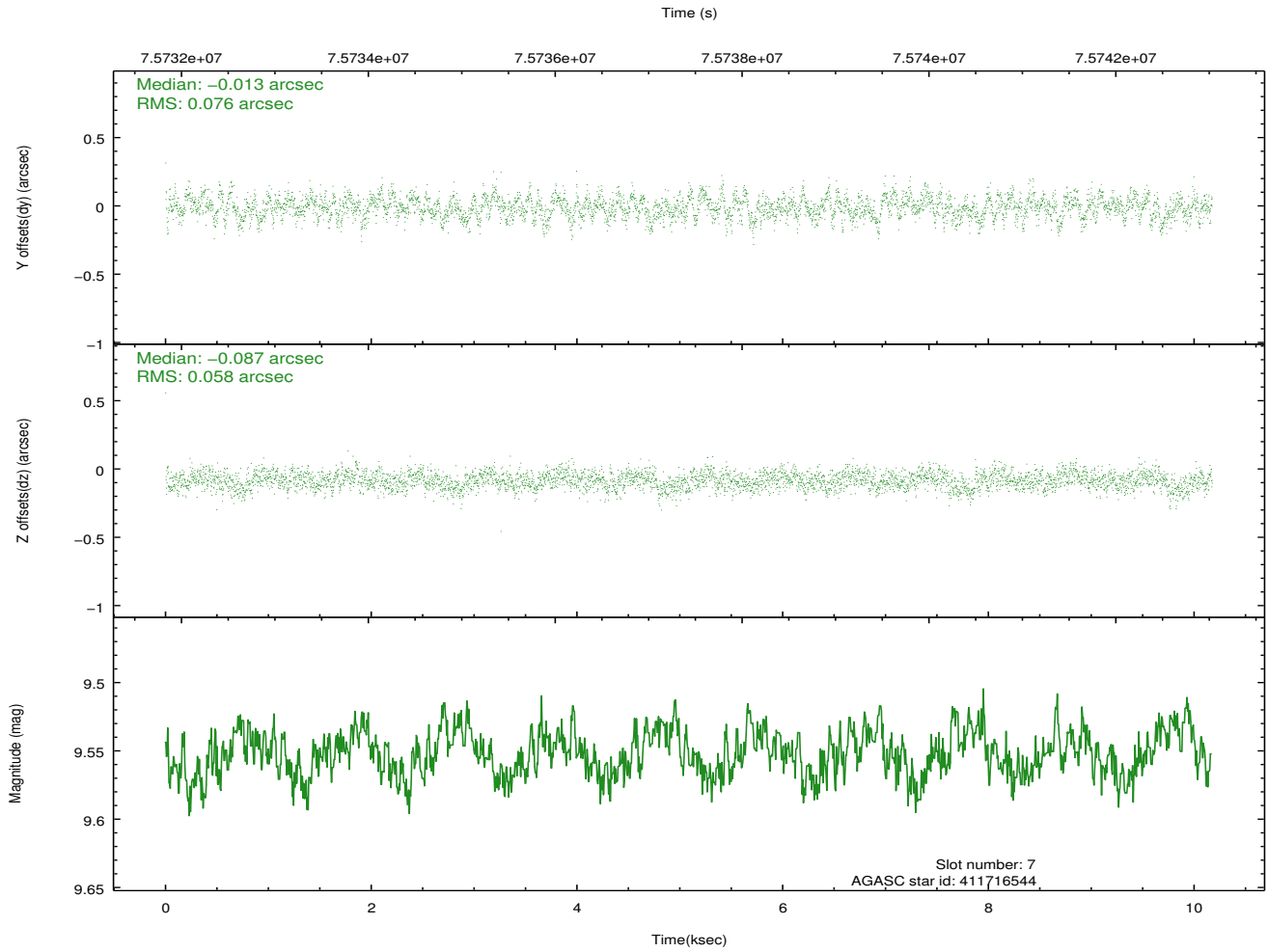
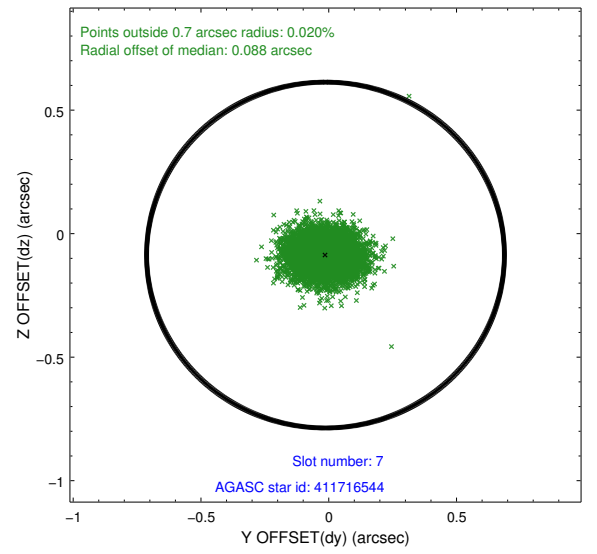
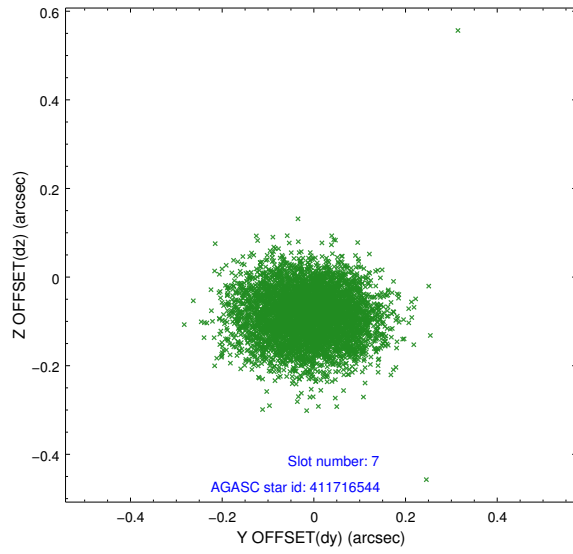


## 2.4.4 Slot 6



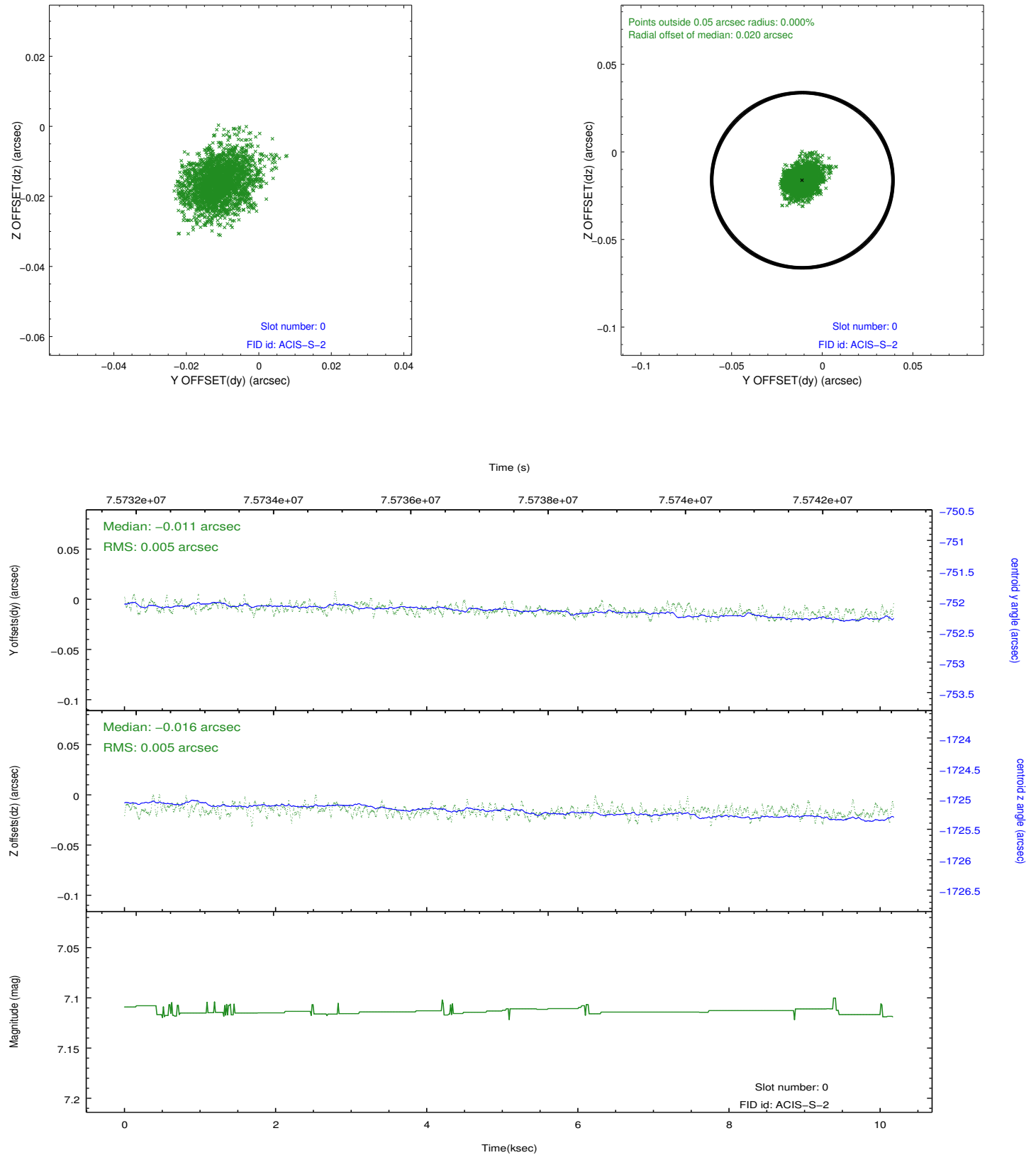


## 2.4.5 Slot 7

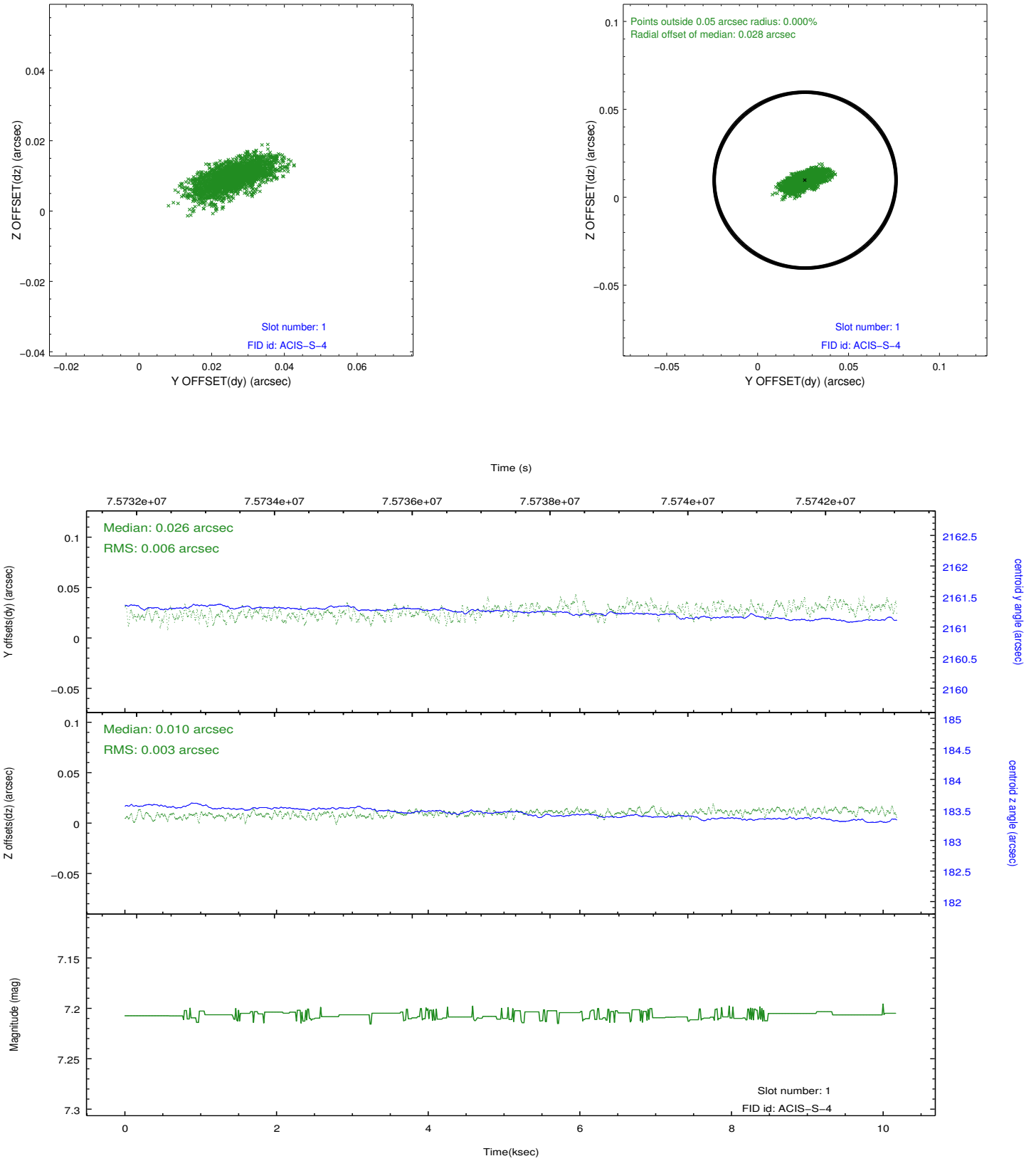


## 2.5 FID Slots

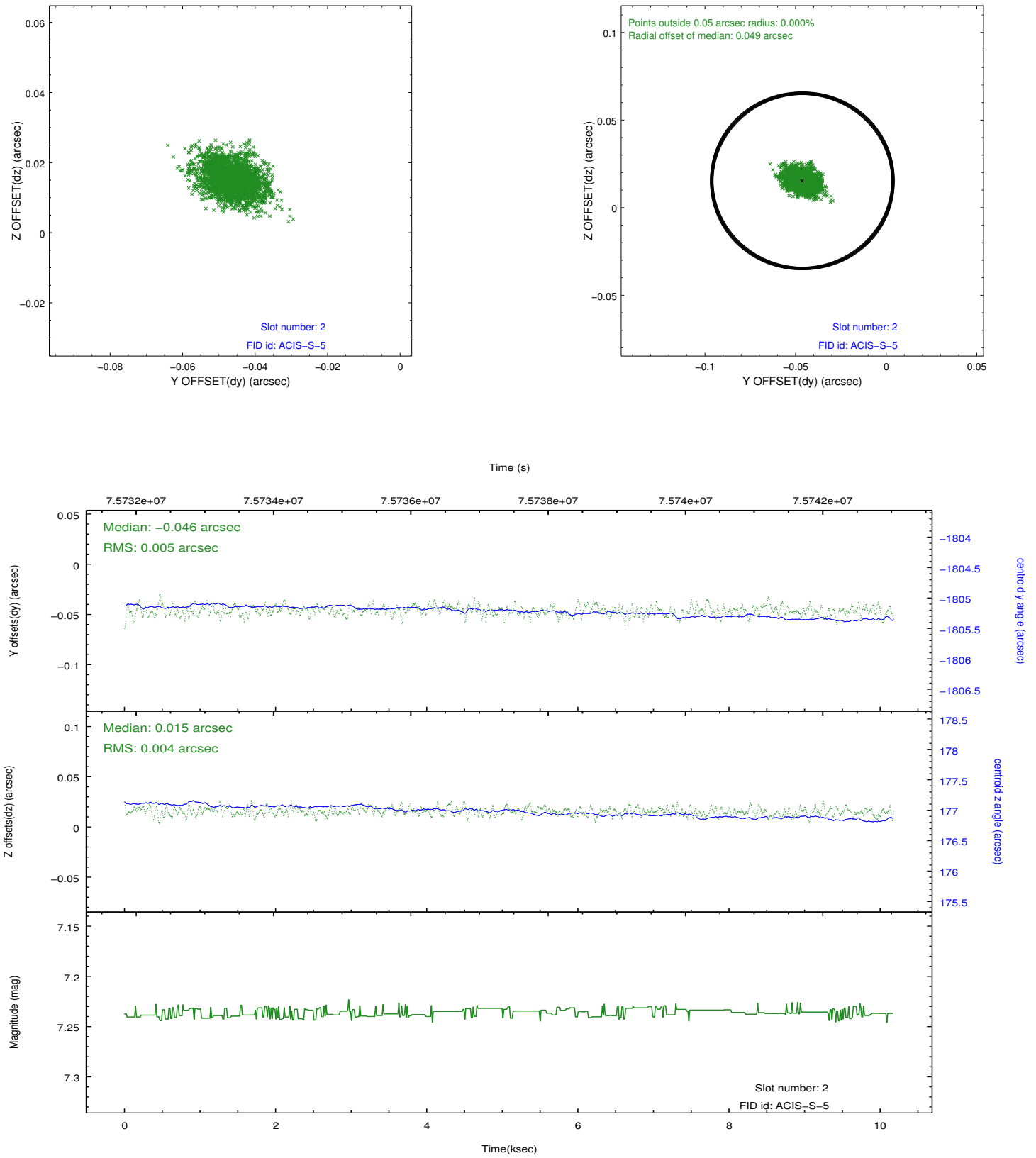
### 2.5.1 Slot 0



## 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)	2012.08.31
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.174

### A.2 Comments