

# V&V Reference Report

## L2 ASCDS Version : 8.5

Observation 5408 - L2 Version 4  
Chandra X-Ray Center

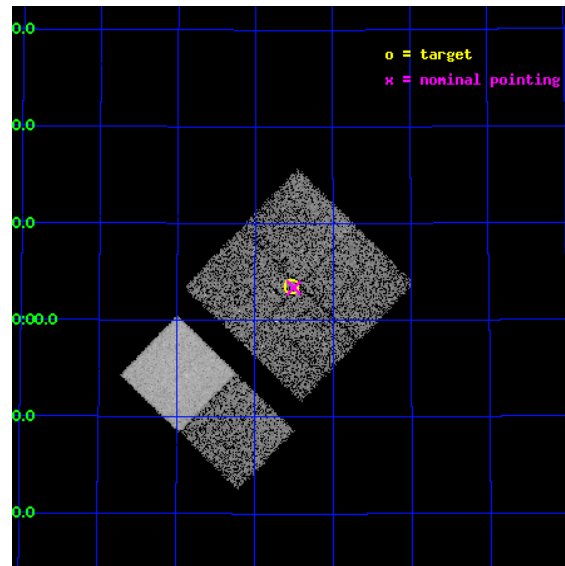
L2 Processing Date : Dec 12 2012

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# 1 Front

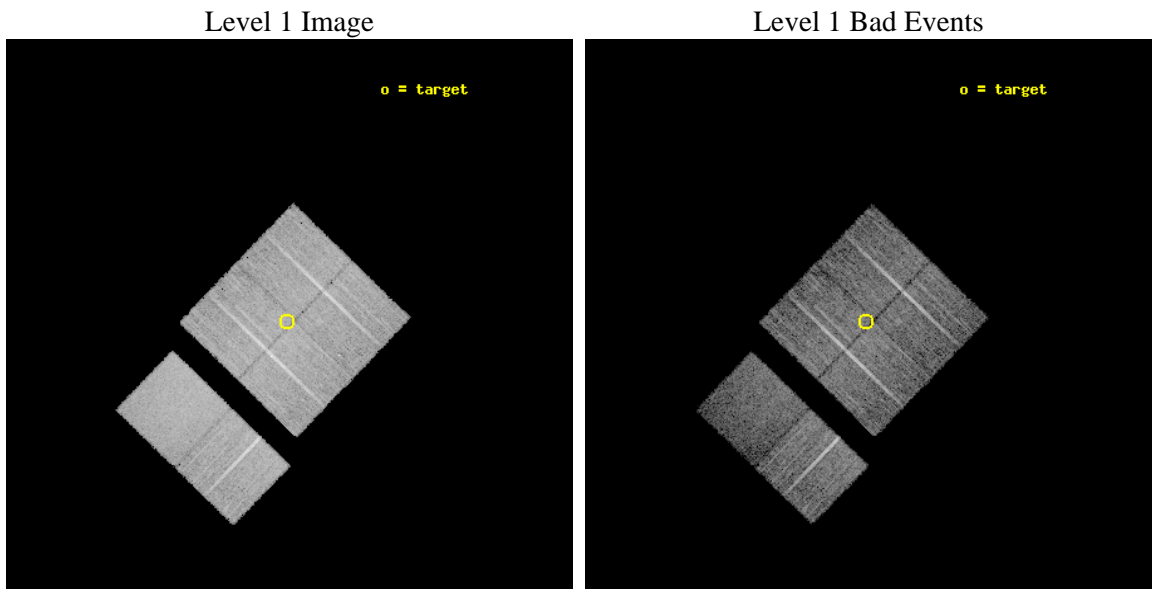
seq_num	200342	Sequence number
obs_id	5408	Observation id
title	h and Chi Per: The Loudest Sources?	Proposal title
observer	Dr. Nancy Evans	Principal investigator
object	Inter-Per	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	35.133333	Observer's specified target RA [deg]
dec_targ	57.057778	Observer's specified target Dec [deg]
ra_nom	35.12537567457	Nominal RA [deg]
dec_nom	57.056138230862	Nominal Dec [deg]
roll_nom	224.01889922033	Nominal Roll [deg]
revision	4	Processing version of data
ontime	9951.9589627385	Sum of GTIs [s]
livetime	9825.9412660021	Livetime [s]
ontime0	9955.199962914	Sum of GTIs [s]
ontime1	9955.199962914	Sum of GTIs [s]
ontime2	9955.199962914	Sum of GTIs [s]
ontime3	9951.9589627385	Sum of GTIs [s]
ontime6	9951.9589627087	Sum of GTIs [s]
ontime7	9955.199962914	Sum of GTIs [s]
l2events	60337	Number of level 2 events



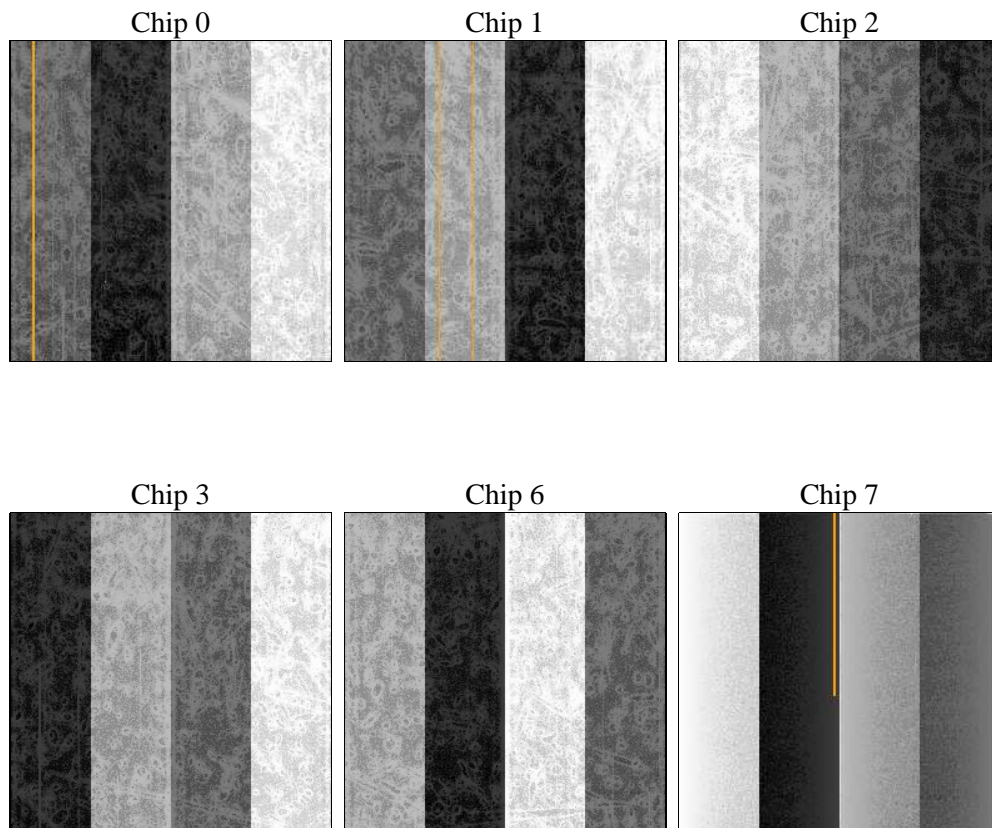
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	8.5	Processing system revision	ontime	9951.9589627385	Sum of GTIs [s]
caldsver	4.5.4	&#160	ontime0	9955.199962914	Sum of GTIs [s]
date	2012-12-12T02:47:47	Date and time of file creation	ontime1	9955.199962914	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	9955.199962914	Sum of GTIs [s]
			ontime3	9951.9589627385	Sum of GTIs [s]
			ontime6	9951.9589627087	Sum of GTIs [s]
			ontime7	9955.199962914	Sum of GTIs [s]
			l1events	391635	Number of level 1 events

### 2.1.4 Events

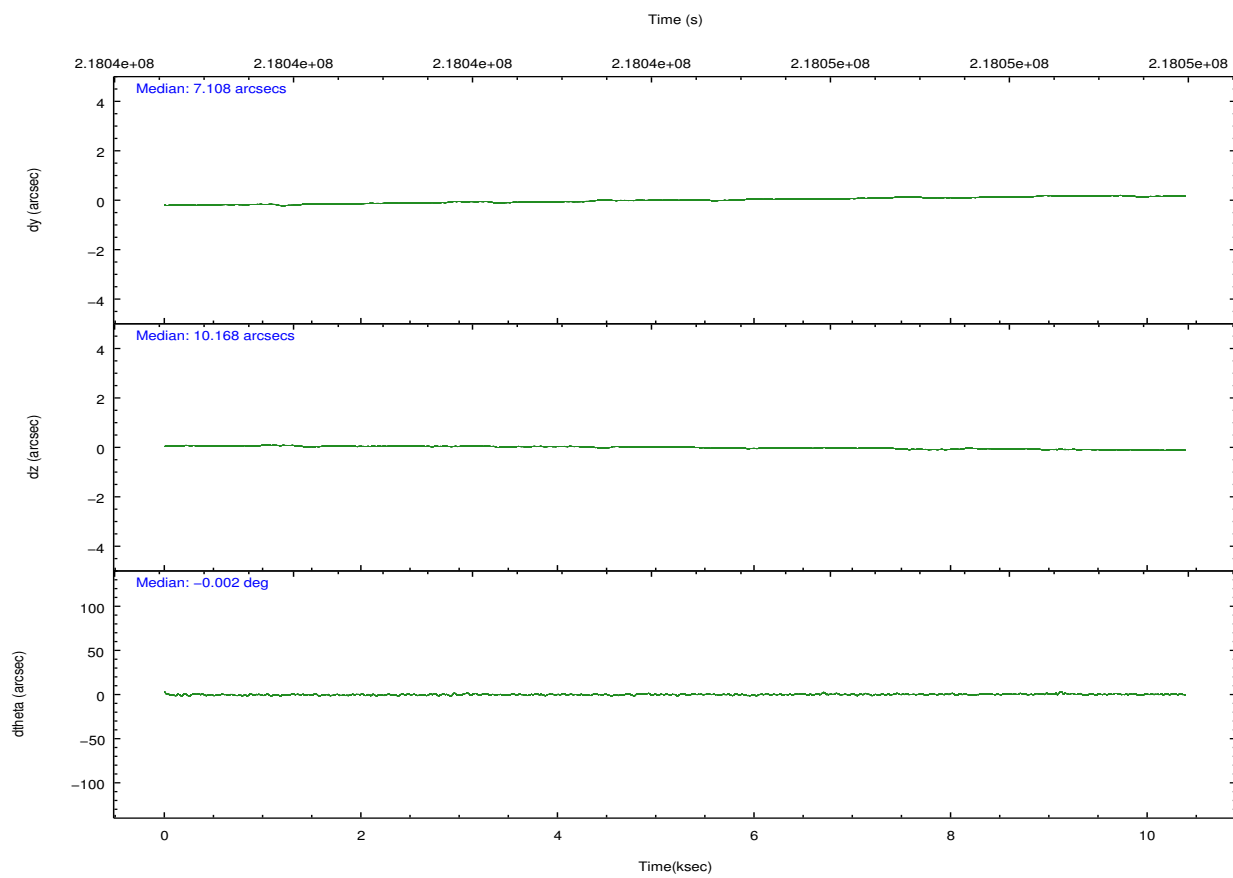
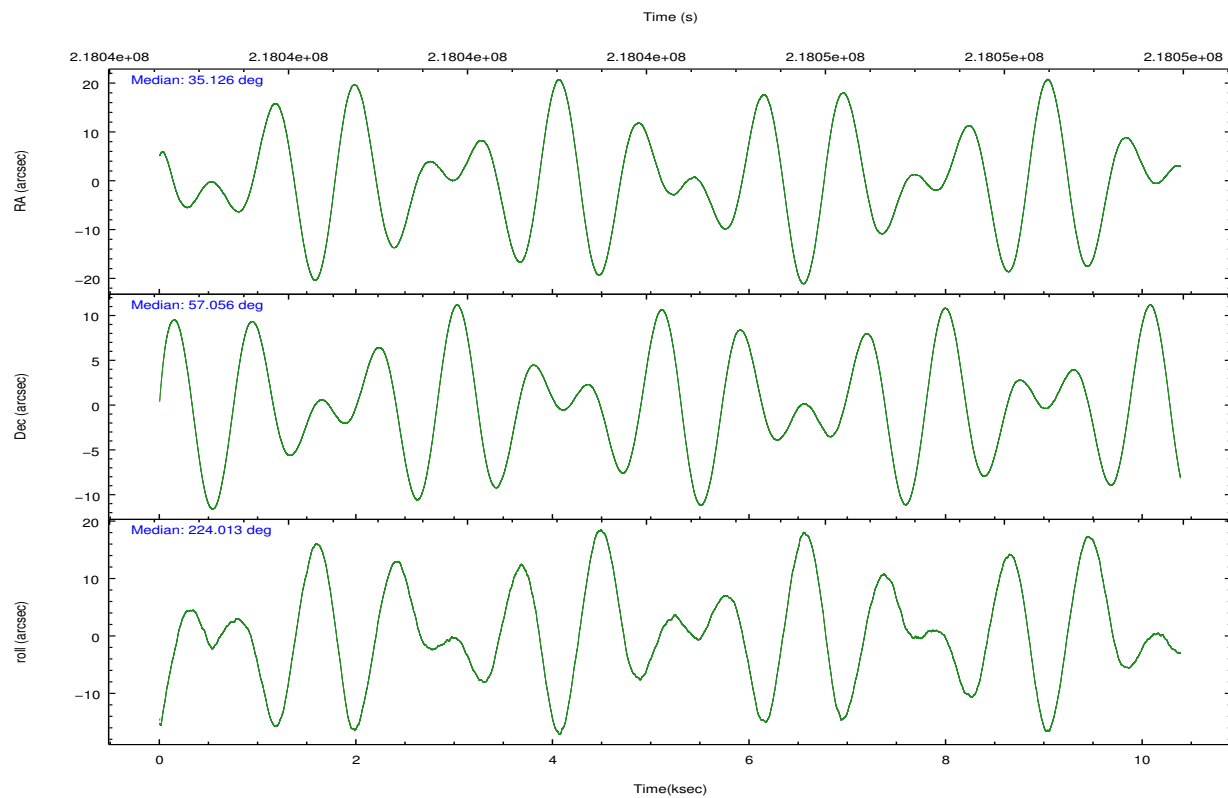
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	59318	60452	67245	65414	67023	72183	grade 0 events	2663	2856	2625	2491	2317	2981
rejected events	52384	52971	60534	59146	60431	39275		4%	4%	3%	3%	3%	4%
rejected %	88%	87%	90%	90%	90%	54%	grade 1 events	37	36	50	35	35	68
								0%	0%	0%	0%	0%	0%
							grade 2 events	1561	1609	1493	1259	1438	6611
								2%	2%	2%	1%	2%	9%
							grade 3 events	775	820	761	665	749	3217
								1%	1%	1%	1%	1%	4%
							grade 4 events	722	791	691	644	687	3183
								1%	1%	1%	0%	1%	4%
							grade 5 events	2243	2473	2135	2604	2682	7622
								3%	4%	3%	3%	4%	10%
							grade 6 events	1218	1410	1142	1216	1404	16947
								2%	2%	1%	1%	2%	23%
							grade 7 events	50099	50457	58348	56500	57711	31554
								84%	83%	86%	86%	86%	43%



## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	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	35.139062	35.12537567457048	Subarray requested	NONE	NONE
[deg] Pointing Dec	57.082468	57.05613823086237	Alternating exposures requested	N	N
[deg] Pointing Roll	223.798728	224.0188992203277	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	218039463.184000	218038401.50708			
Observation start date	2004-11-28T14:29:59	2004-11-28T14:13:21			
[s] Observation end time (MET)	218049463.184000	218050952.12015			
Observation end date	2004-11-28T17:16:39	2004-11-28T17:42:32			
Read mode	TIMED	TIMED			

## 2.3 Aspect

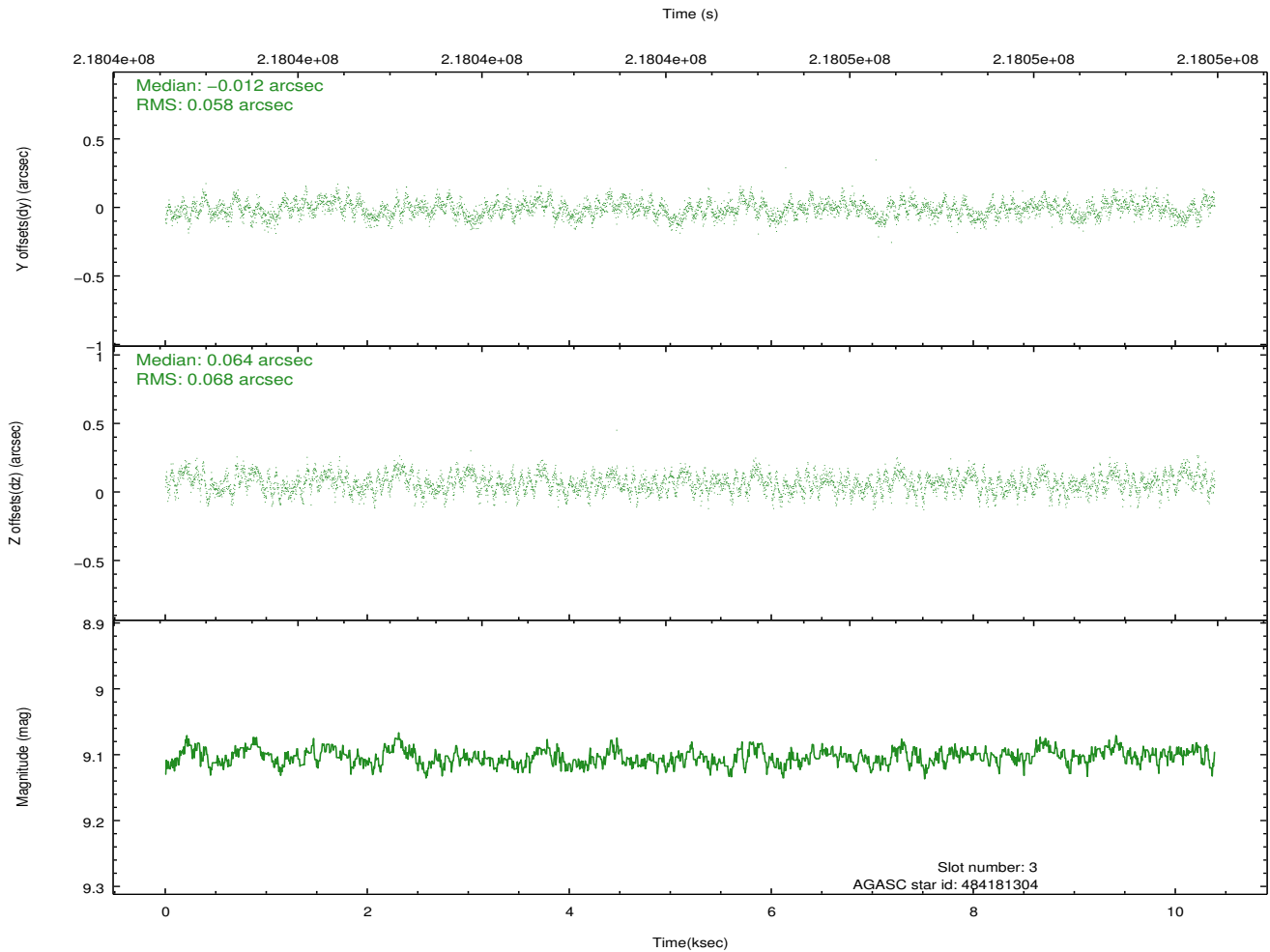
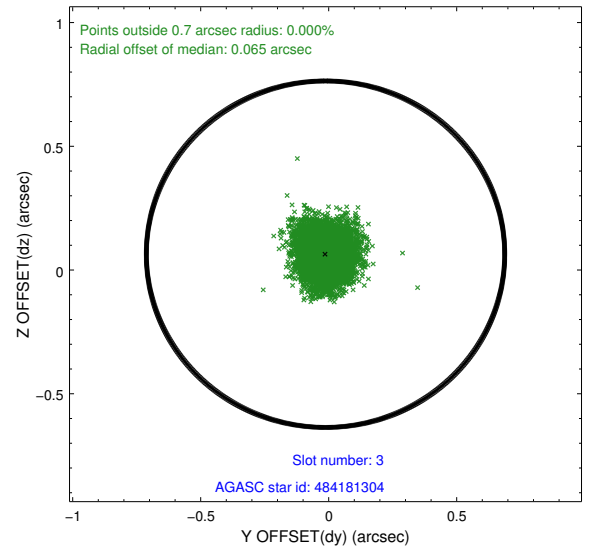
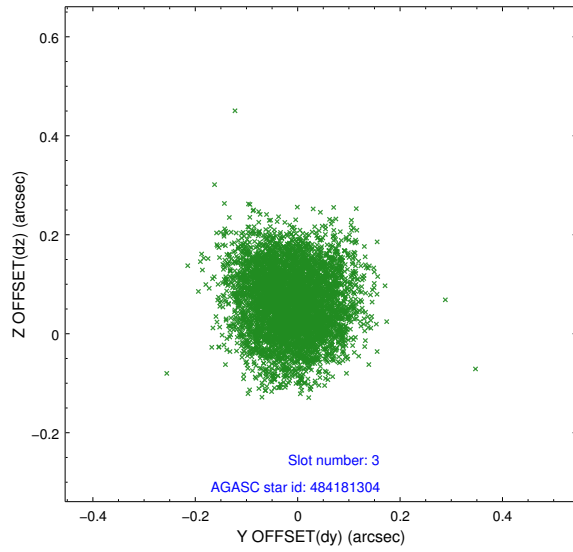


### Slot Statistics

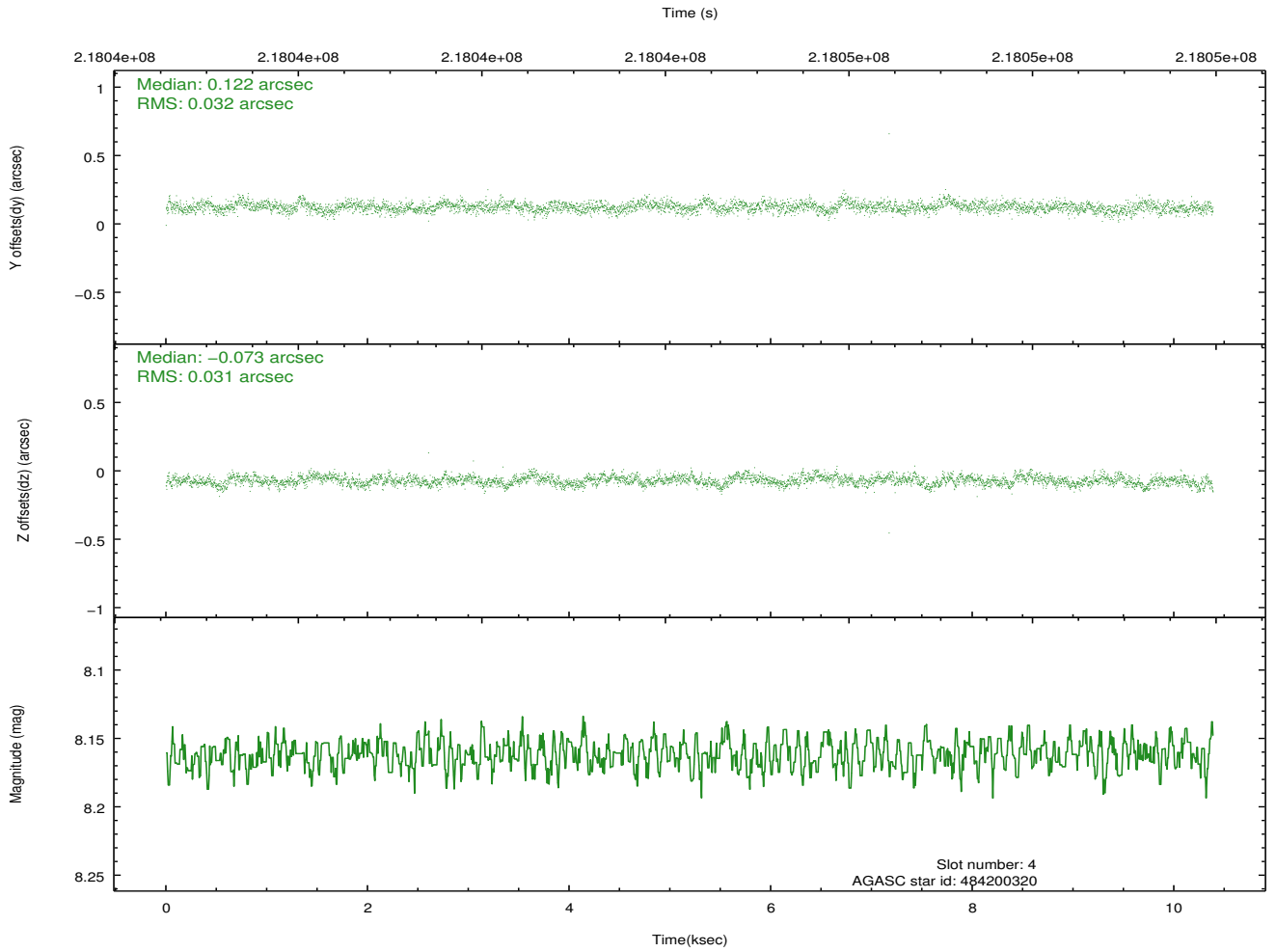
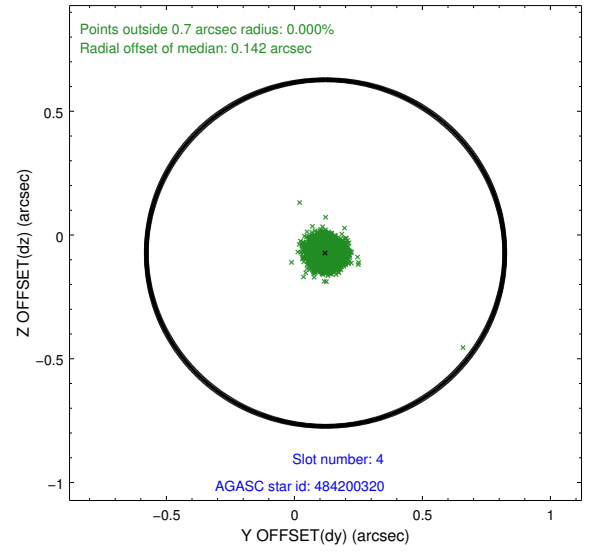
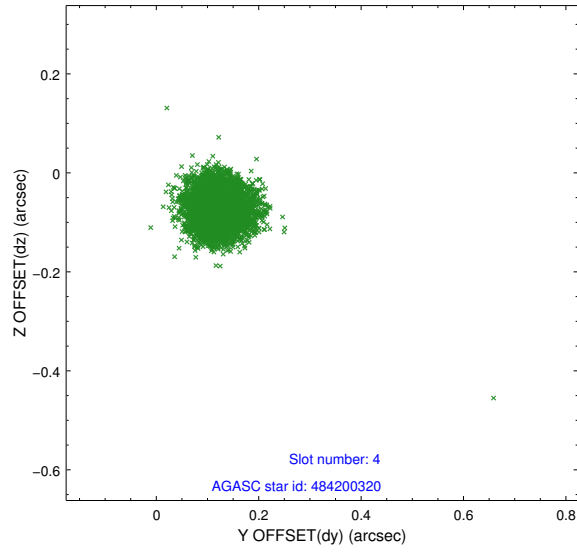
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.14	2534	-0.061	-0.074	0.010	0.017	0.000000	0.000000	-761.66	-840.07
1	FID	ACIS-I-4	7.18	2533	0.144	0.061	0.011	0.019	0.000000	0.000000	2152.38	1065.98
2	FID	ACIS-I-5	7.22	2534	-0.183	0.082	0.012	0.018	0.000000	0.000000	-1814.96	1064.43
3	GUIDE	484181304	9.10	5063	-0.012	0.064	0.096	0.151	35.161466	57.807187	-1836.06	-1853.44
4	GUIDE	484200320	8.16	5064	0.122	-0.073	0.046	0.076	34.602507	56.559914	2067.28	619.90
5	GUIDE	484201016	8.52	5065	0.027	-0.045	0.068	0.110	34.366863	57.365646	371.78	-1779.22
6	GUIDE	484202936	8.84	5063	-0.008	0.077	0.074	0.120	33.748683	57.221821	1590.37	-2257.52
7	GUIDE	484190192	7.96	5065	-0.124	-0.025	0.066	0.105	35.725949	56.623216	302.49	1993.86

## 2.4 Star Slots

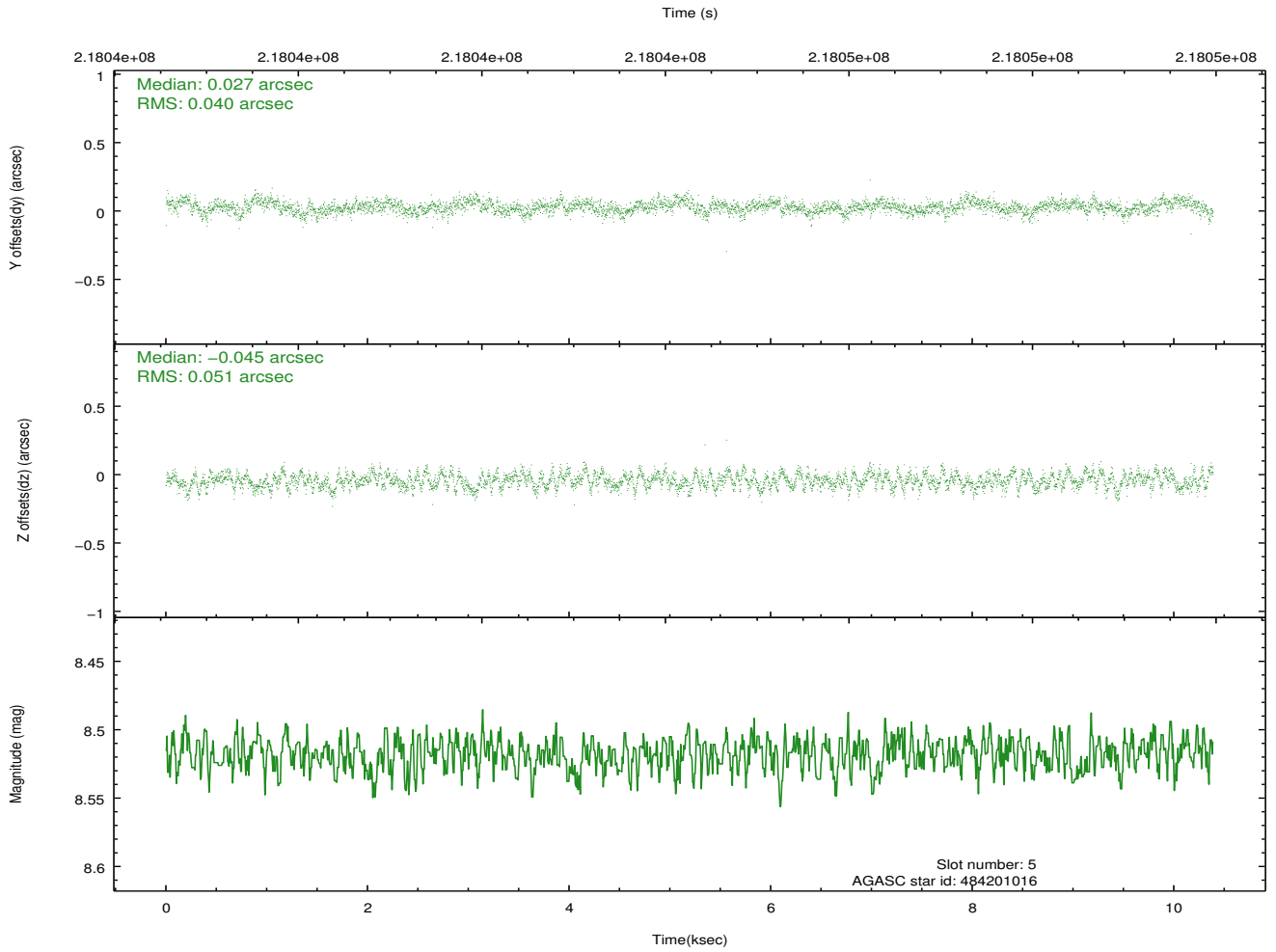
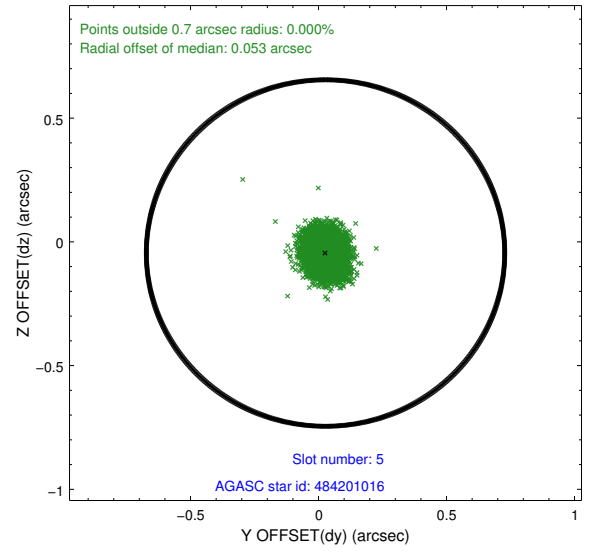
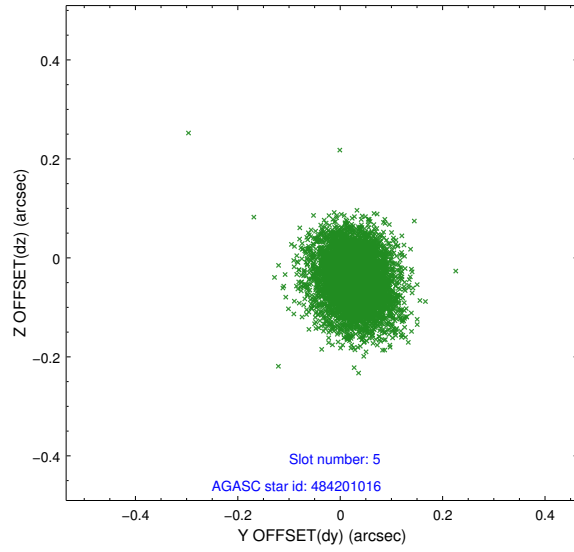
### 2.4.1 Slot 3



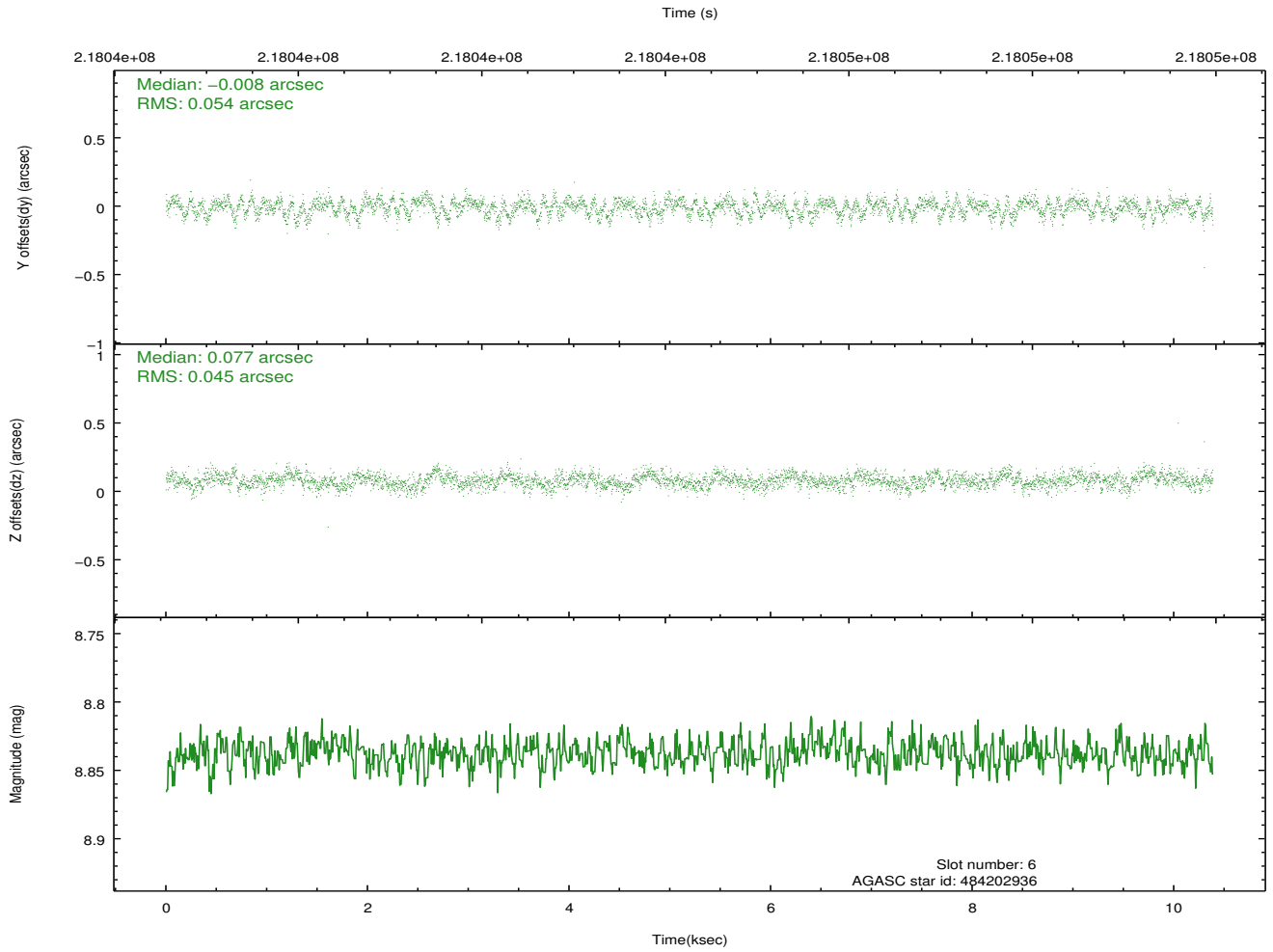
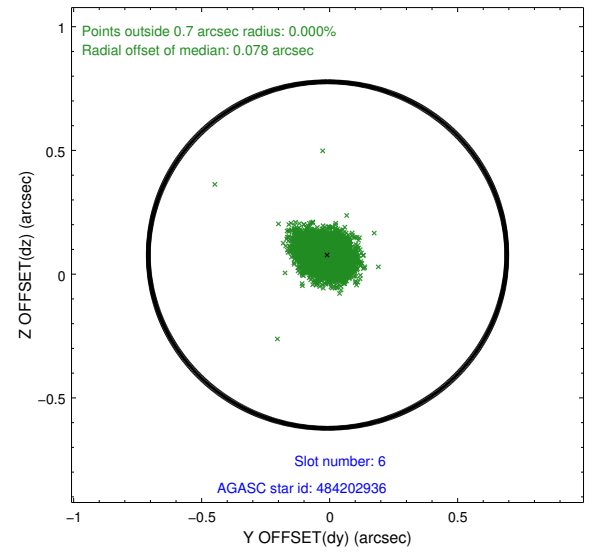
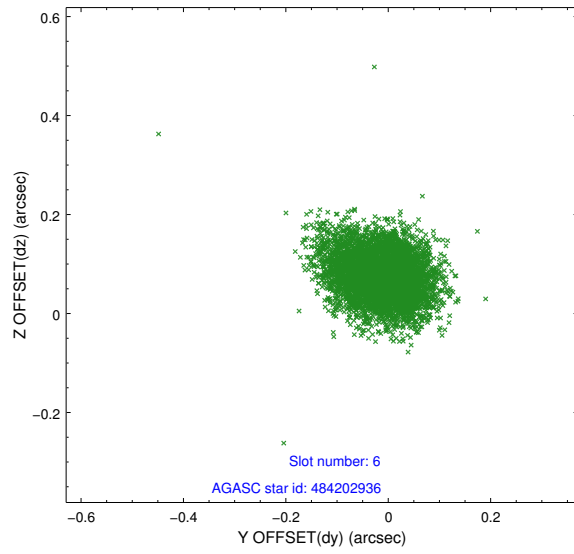
## 2.4.2 Slot 4



### 2.4.3 Slot 5

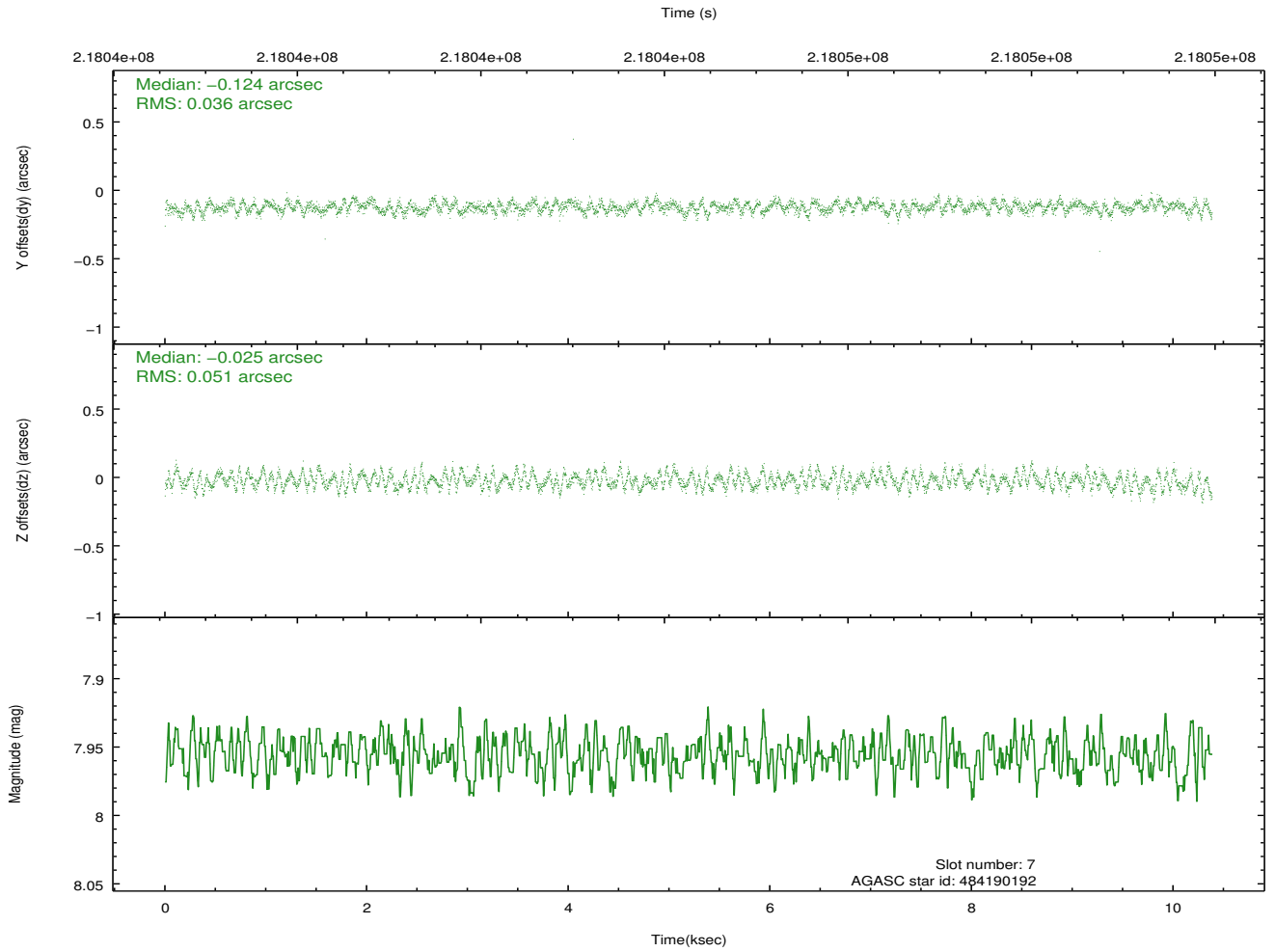
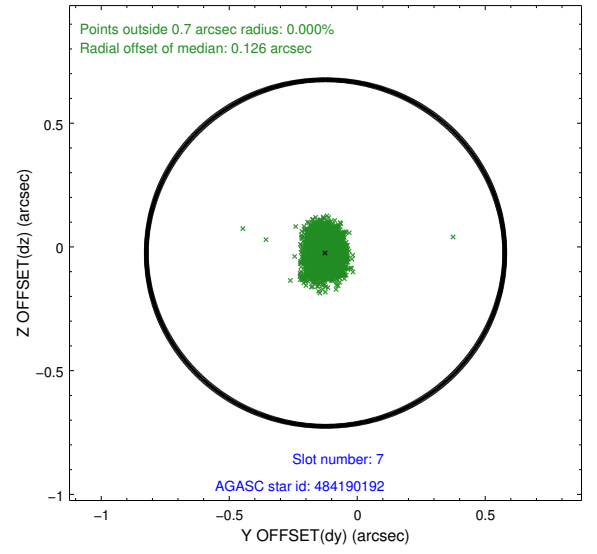
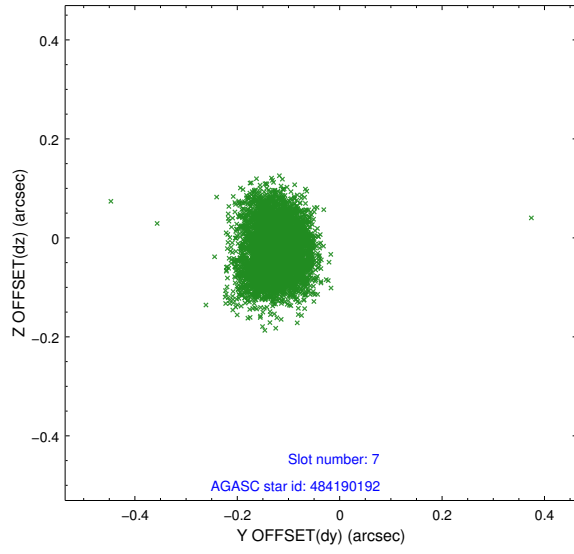


## 2.4.4 Slot 6



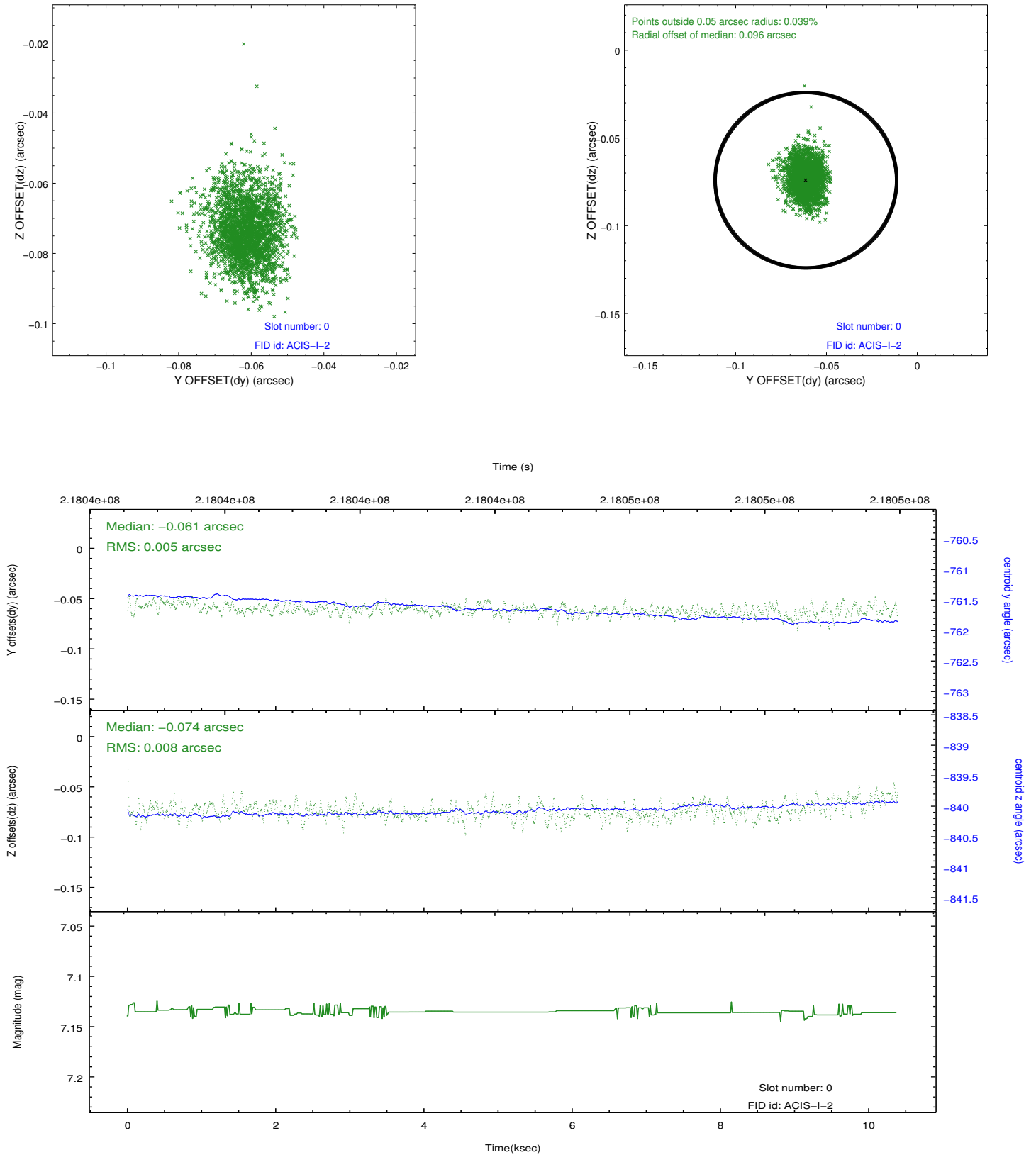


## 2.4.5 Slot 7

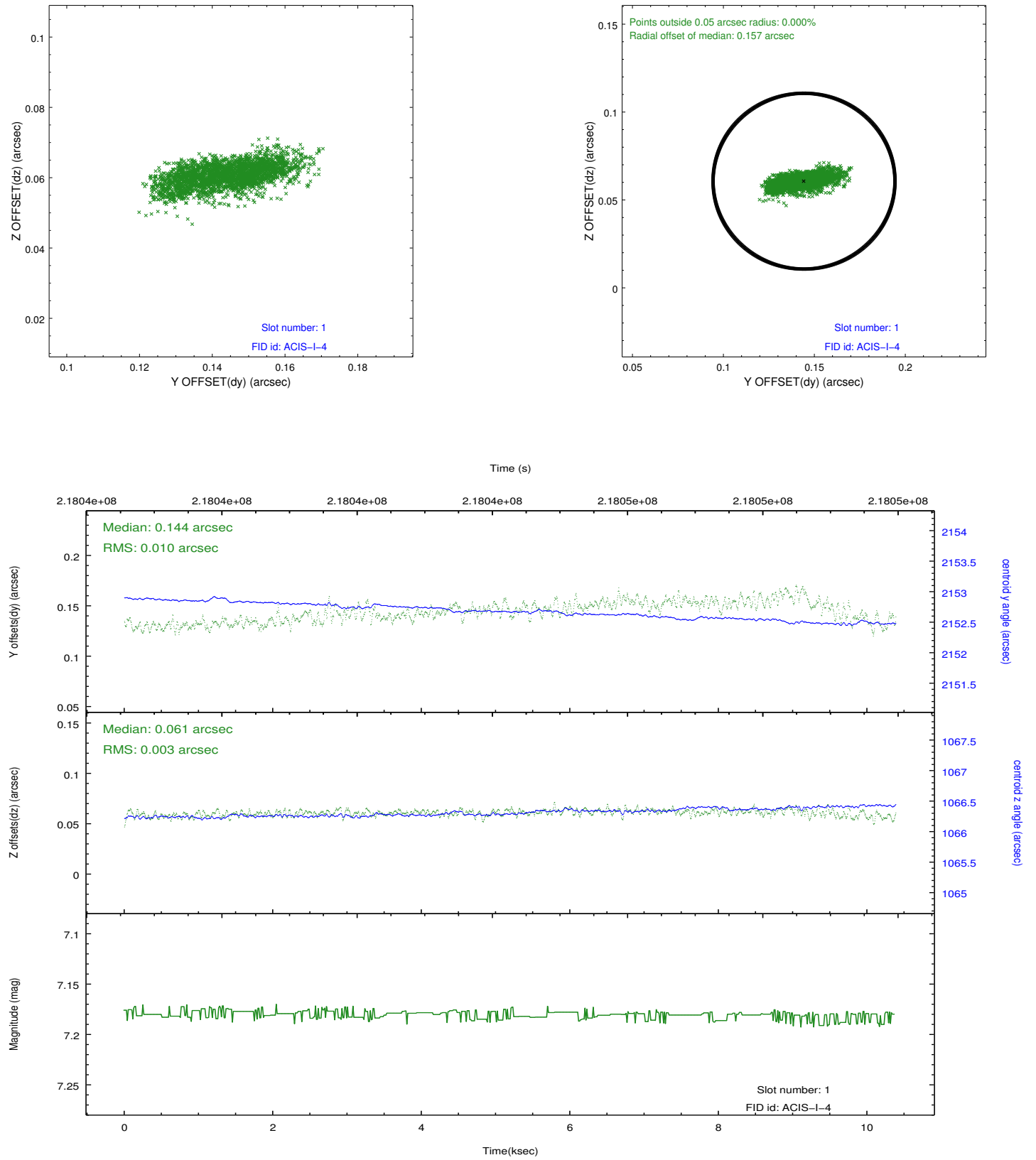


## 2.5 FID Slots

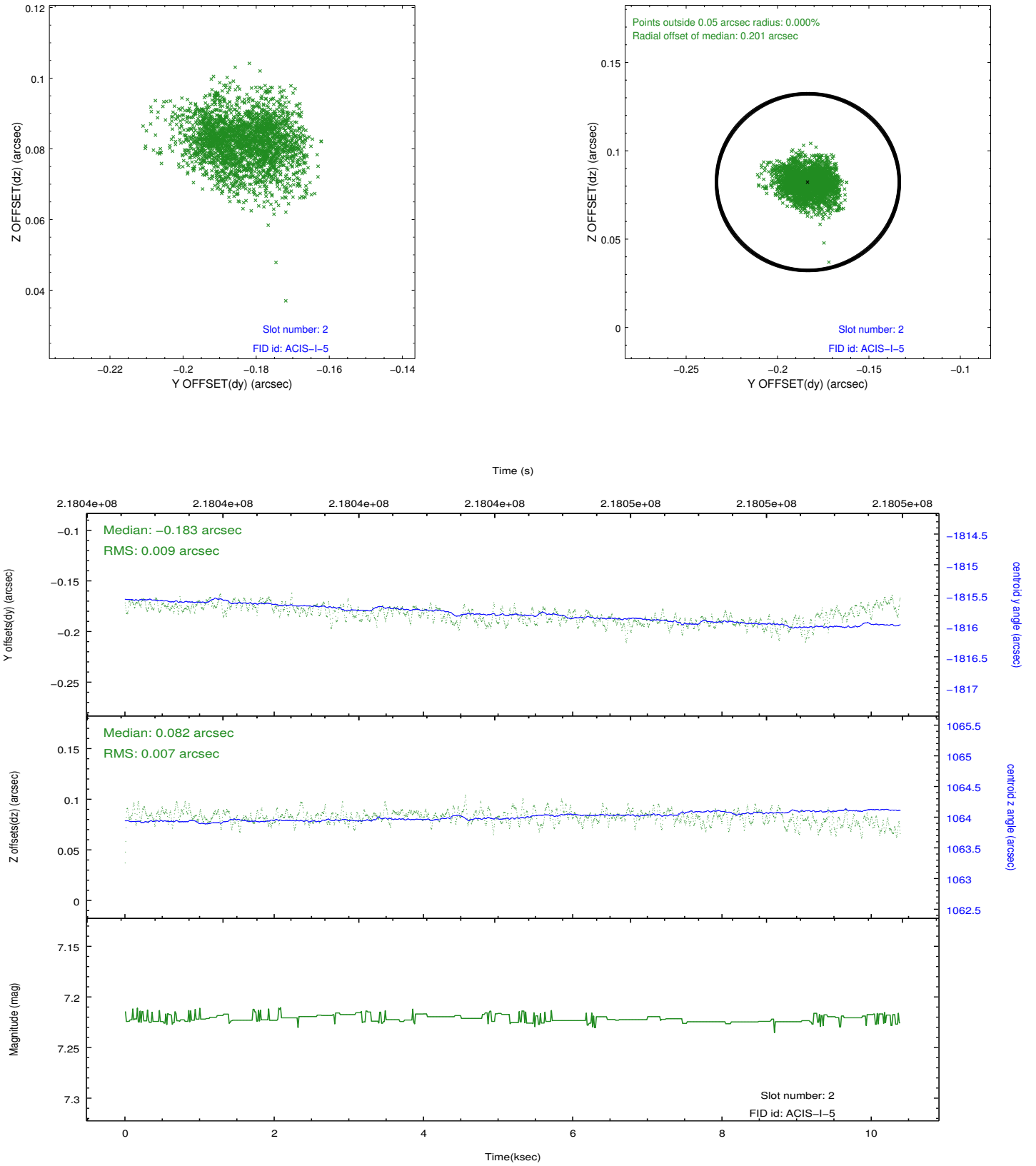
### 2.5.1 Slot 0



## 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)	2013.01.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.951958

### A.2 Comments