

# V&V Reference Report

## L2 ASCDS Version : 8.5.1

Observation 6057 - L2 Version 3  
Chandra X-Ray Center

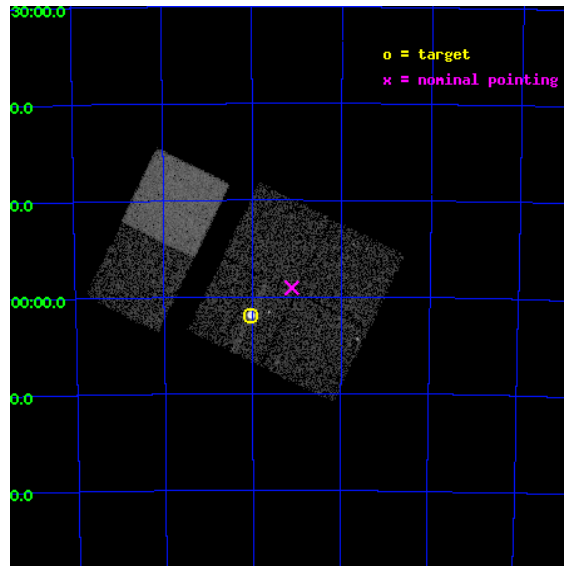
L2 Processing Date : Dec 14 2012

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# 1 Front

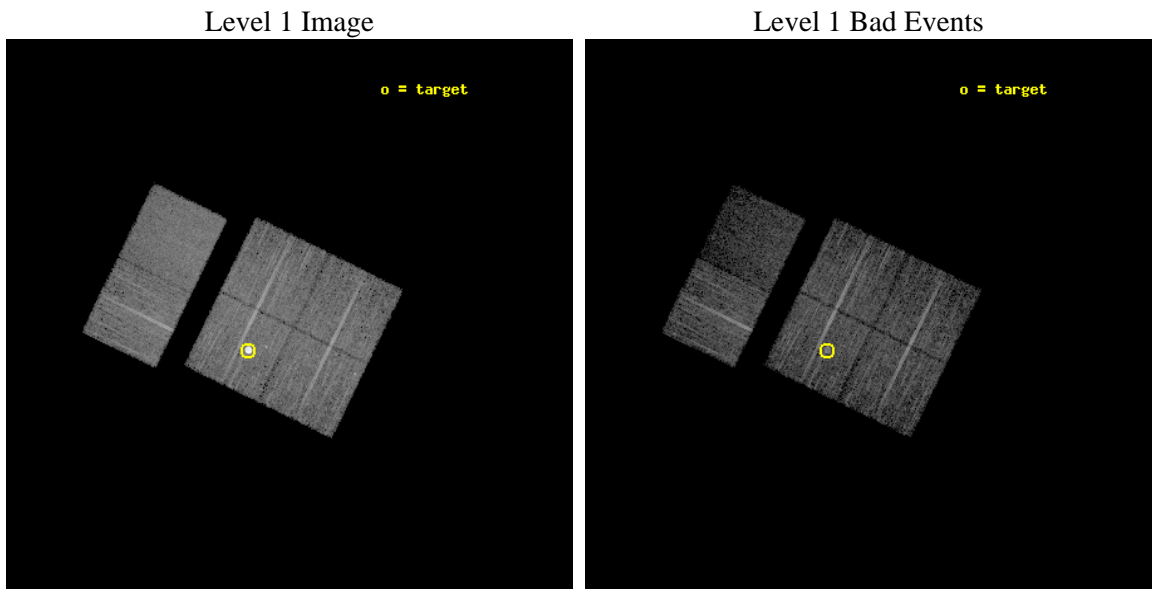
seq_num	590384	Sequence number
obs_id	6057	Observation id
title	AO6A ACIS-I Calibration Observations of E0102-72	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	E0102-72[I2,-120,4.7,2.5,0]	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA [deg]
dec_targ	-72.032028	Observer's specified target Dec [deg]
ra_nom	15.778304330722	Nominal RA [deg]
dec_nom	-71.984465561469	Nominal Dec [deg]
roll_nom	296.09380899359	Nominal Roll [deg]
revision	3	Processing version of data
ontime	7955.1999703646	Sum of GTIs [s]
livetime	7854.4664382935	Livetime [s]
ontime0	7955.1999703646	Sum of GTIs [s]
ontime1	7955.1999703646	Sum of GTIs [s]
ontime2	7955.1999703646	Sum of GTIs [s]
ontime3	7955.1999703646	Sum of GTIs [s]
ontime6	7955.1999703646	Sum of GTIs [s]
ontime7	7955.1999703646	Sum of GTIs [s]
l2events	67763	Number of level 2 events



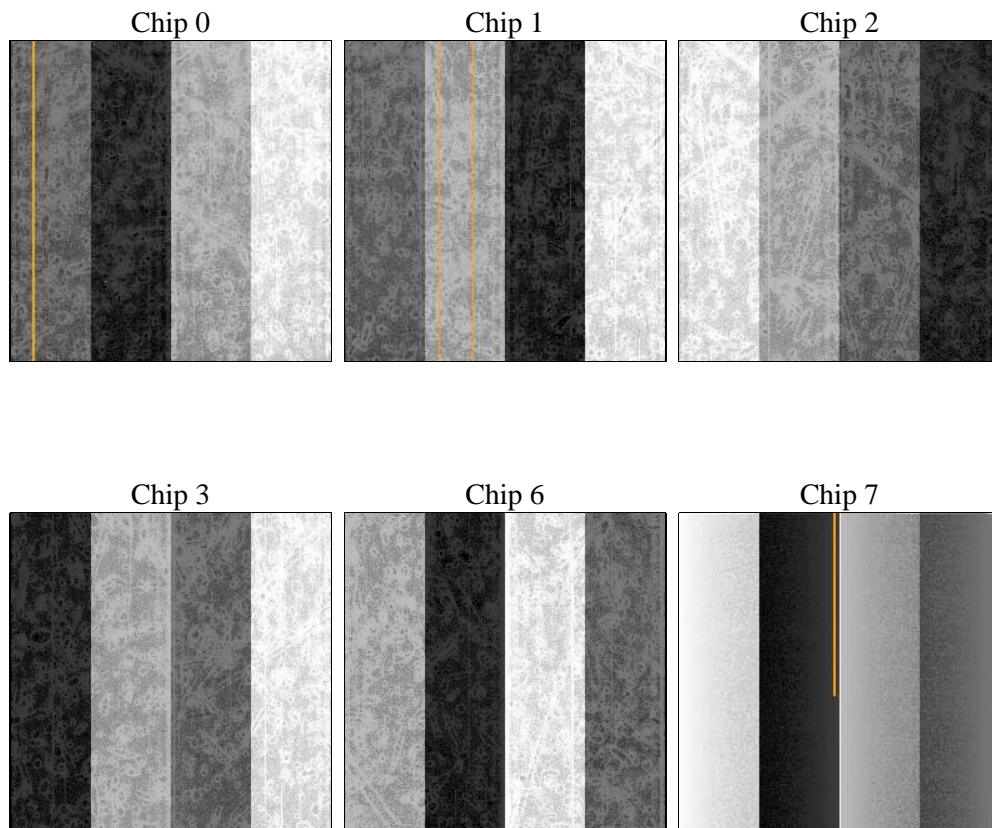
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	8000.000000	[s] Scheduled observation exposure time
ascdsver	8.5.1	Processing system revision	ontime	7955.1999703646	Sum of GTIs [s]
caldsver	4.5.5	&#160	ontime0	7955.1999703646	Sum of GTIs [s]
date	2012-12-14T20:27:31	Date and time of file creation	ontime1	7955.1999703646	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	7955.1999703646	Sum of GTIs [s]
			ontime3	7955.1999703646	Sum of GTIs [s]
			ontime6	7955.1999703646	Sum of GTIs [s]
			ontime7	7955.1999703646	Sum of GTIs [s]
			l1events	310716	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	45214	43688	76159	48195	50252	47208	grade 0 events	2079	1802	23743	1651	1843	2487
rejected events	39995	38709	46736	43744	45356	23265		4%	4%	31%	3%	3%	5%
rejected %	88%	88%	61%	90%	90%	49%	grade 1 events	24	32	239	21	32	45
								0%	0%	0%	0%	0%	0%
							grade 2 events	1168	1045	2821	950	1070	5038
								2%	2%	3%	1%	2%	10%
							grade 3 events	593	589	947	496	547	2311
								1%	1%	1%	1%	1%	4%
							grade 4 events	529	631	961	511	517	2197
								1%	1%	1%	1%	1%	4%
							grade 5 events	1436	1533	1428	1549	1630	4956
								3%	3%	1%	3%	3%	10%
							grade 6 events	854	915	962	845	921	11923
								1%	2%	1%	1%	1%	25%
							grade 7 events	38531	37141	45058	42172	43692	18251
								85%	85%	59%	87%	86%	38%

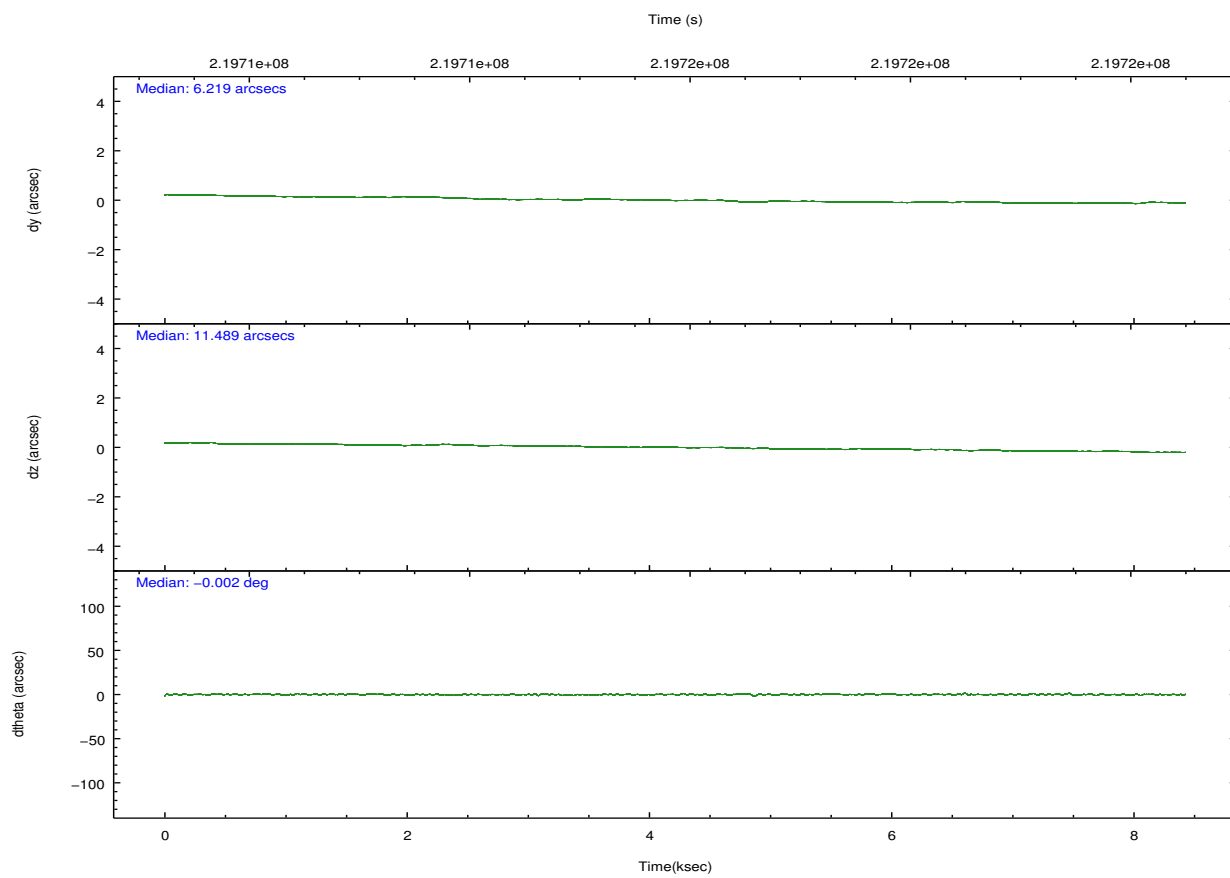
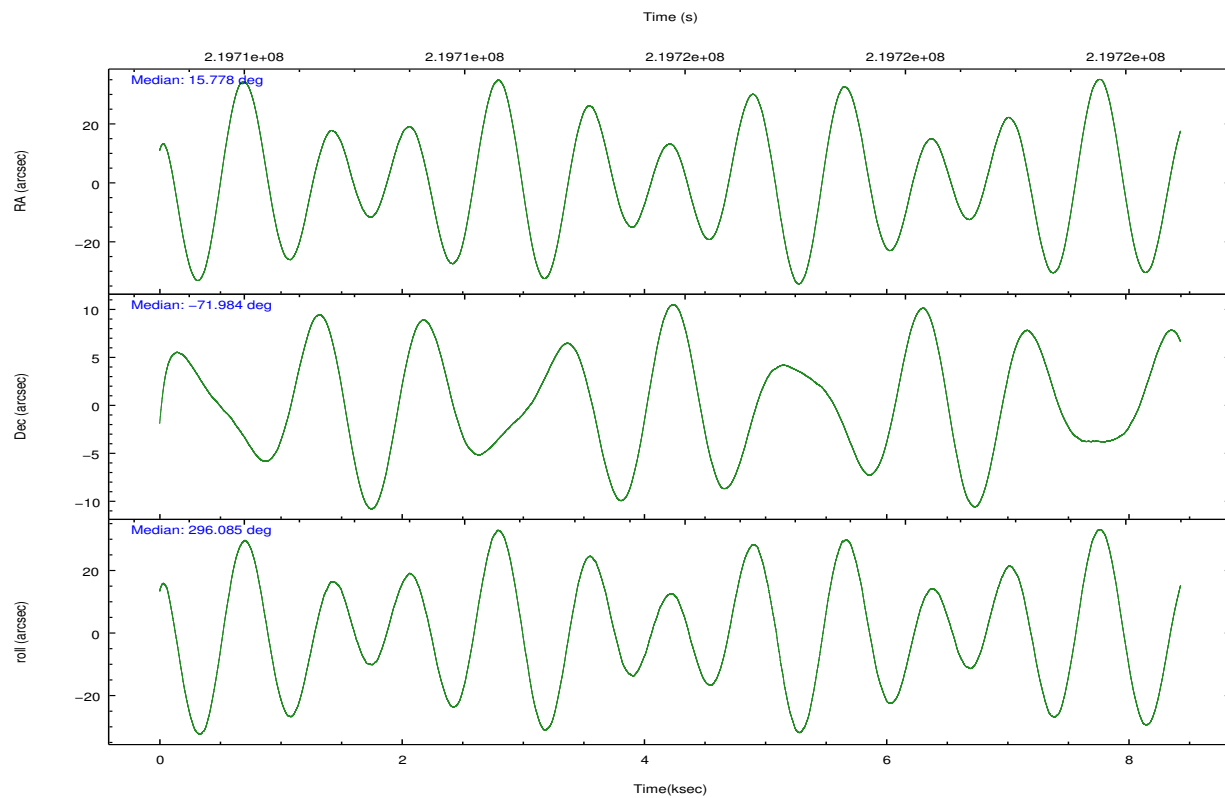


## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-012367	ACIS-012367
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	15.704817	15.77830433072205
[deg] Pointing Dec	-71.969309	-71.98446556146857
[deg] Pointing Roll	295.815250	296.0938089935928
[s] Window start time (MET)	215654464.184000	215654464.184000
[s] Window stop time (MET)	220838464.184000	220838464.184000
[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)	219712073.184000	219710986.84482
Observation start date	2004-12-17T23:06:49	2004-12-17T22:49:46
[s] Observation end time (MET)	219720073.184000	219720222.60774
Observation end date	2004-12-18T01:20:09	2004-12-18T01:23:42
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	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect

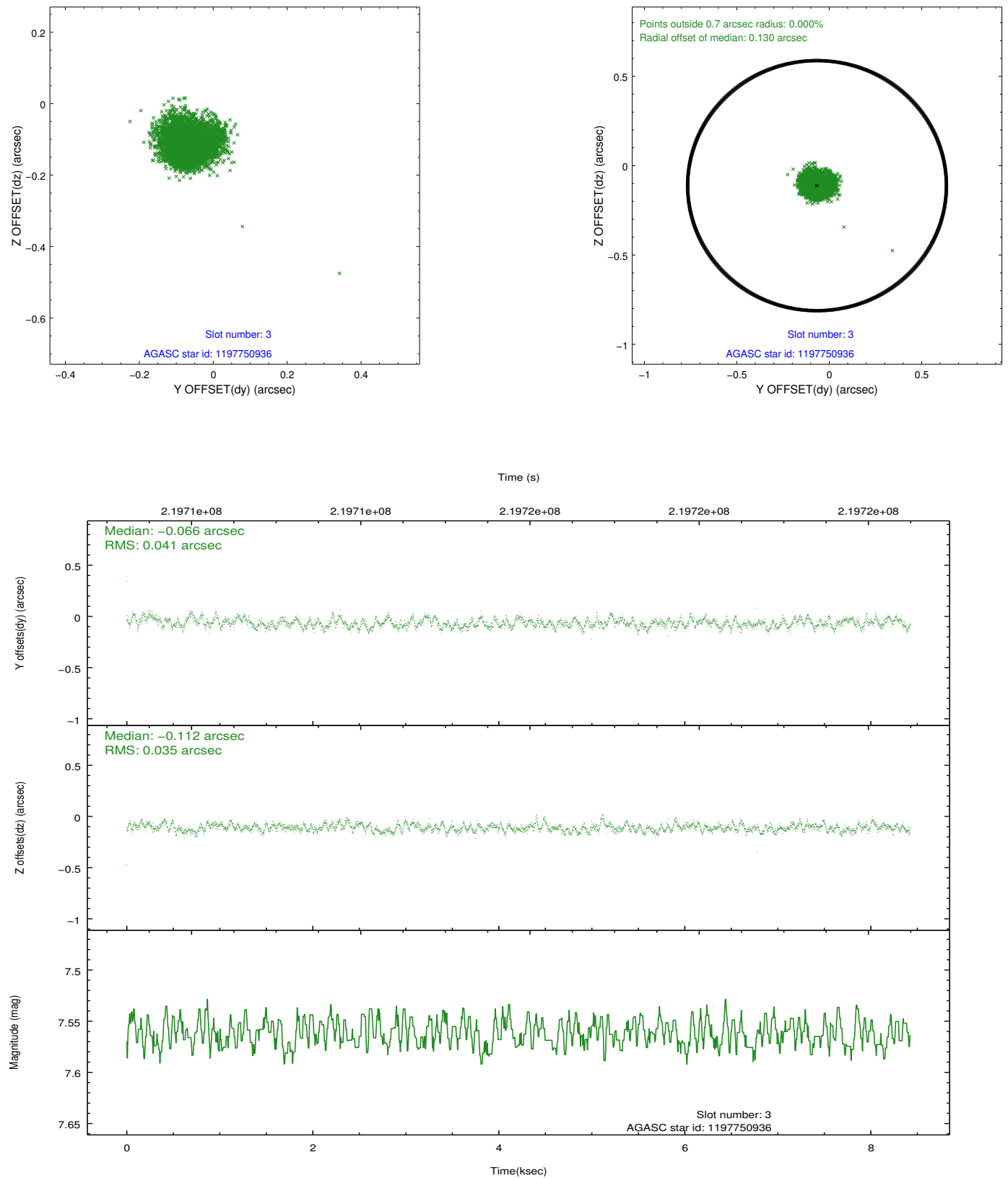


### Slot Statistics

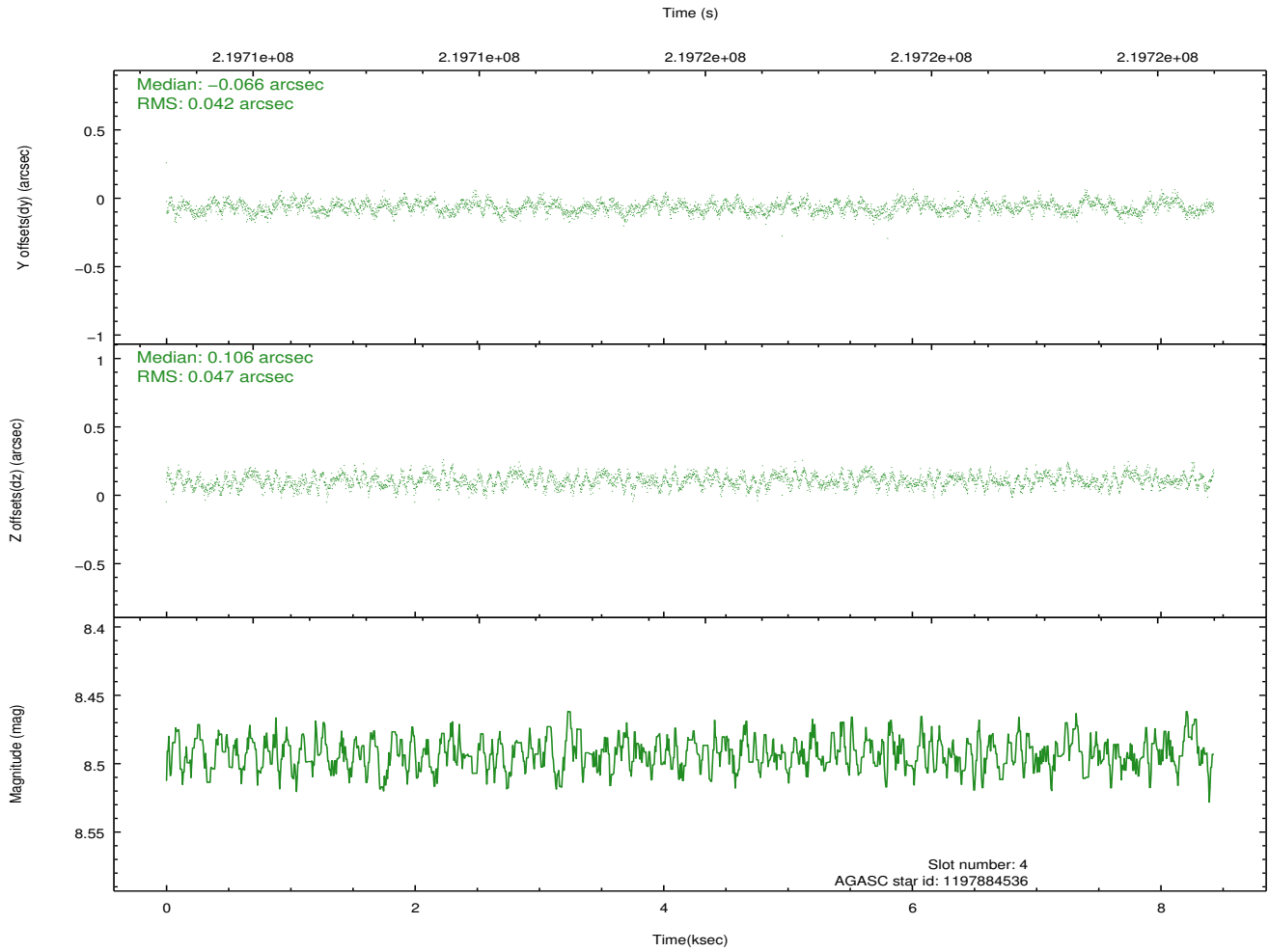
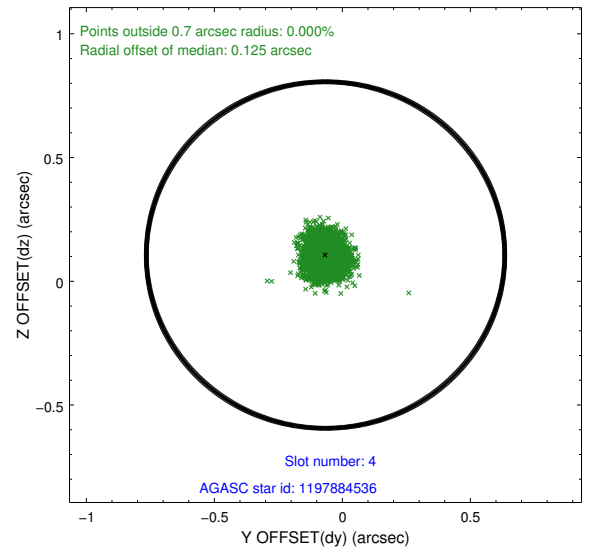
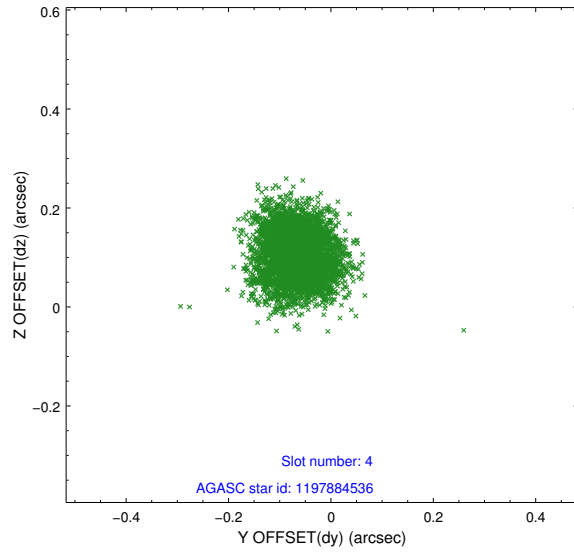
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	2055	-0.003	-0.085	0.009	0.016	0.000000	0.000000	933.47	-835.08
1	FID	ACIS-I-4	7.18	2056	0.071	0.084	0.009	0.015	0.000000	0.000000	2153.95	1064.56
2	FID	ACIS-I-5	7.22	2056	-0.168	0.072	0.008	0.020	0.000000	0.000000	-1813.84	1063.16
3	GUIDE	1197750936	7.56	4111	-0.066	-0.112	0.057	0.092	15.387940	-71.549550	-1516.18	332.28
4	GUIDE	1197884536	8.49	4112	-0.066	0.106	0.067	0.107	17.160729	-71.835289	294.64	1672.52
5	GUIDE	1197885104	9.35	4112	0.156	0.027	0.089	0.144	17.845067	-72.189368	1777.51	1758.31
6	GUIDE	1197885328	7.24	4112	0.024	-0.019	0.058	0.090	16.283090	-71.733943	-475.07	955.91
7	GUIDE	1198189696	7.37	4111	-0.045	-0.002	0.057	0.090	15.223750	-72.697522	2138.12	-1605.62

## 2.4 Star Slots

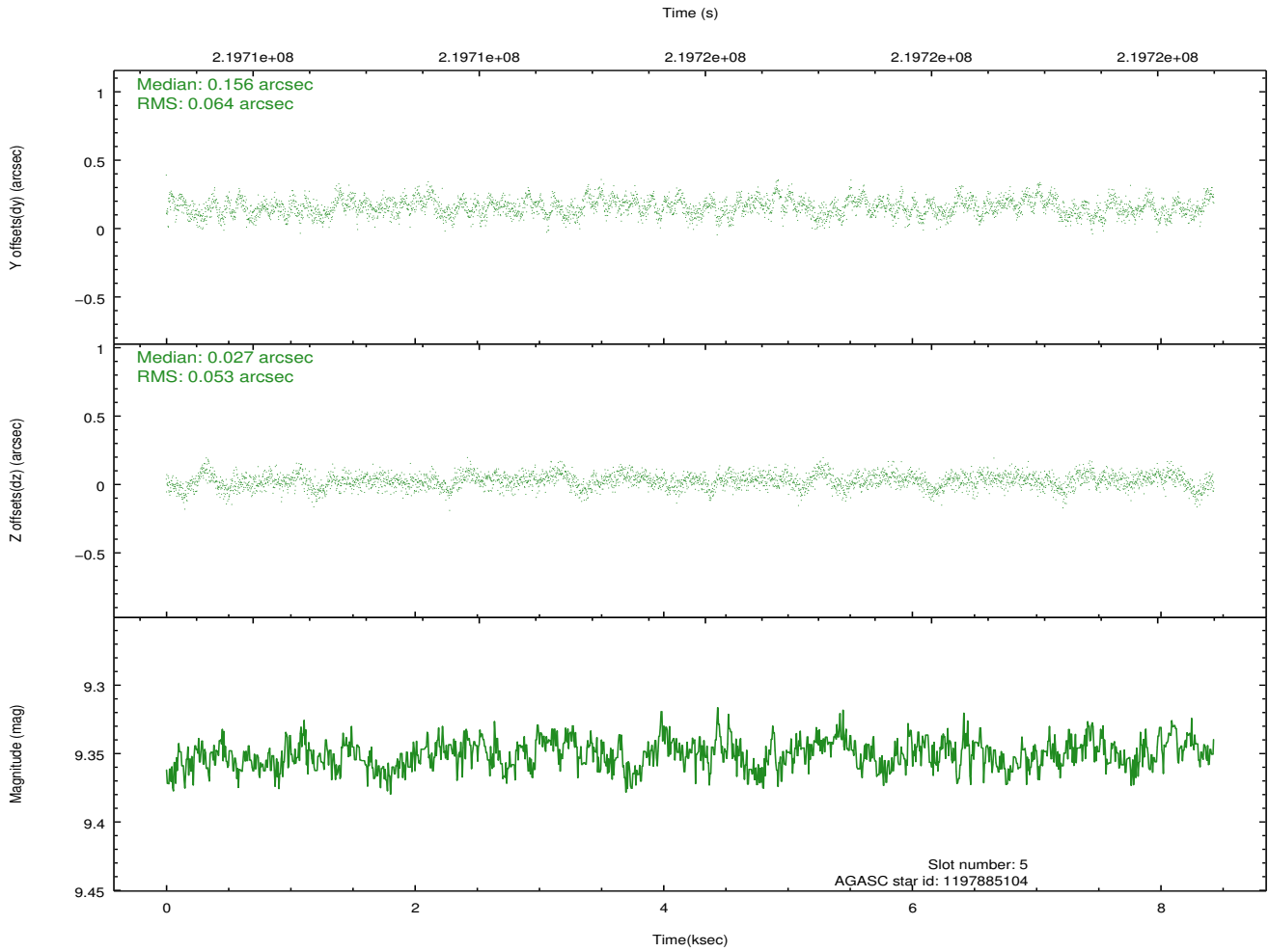
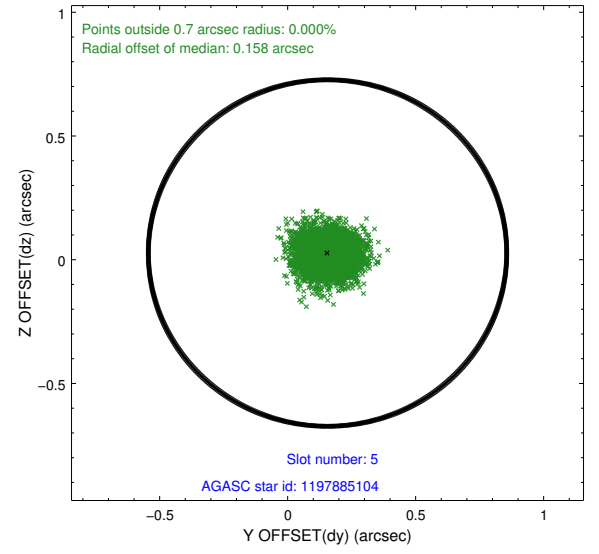
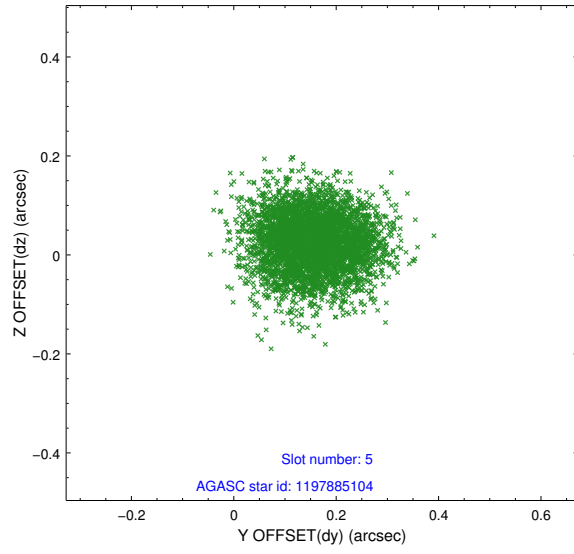
### 2.4.1 Slot 3



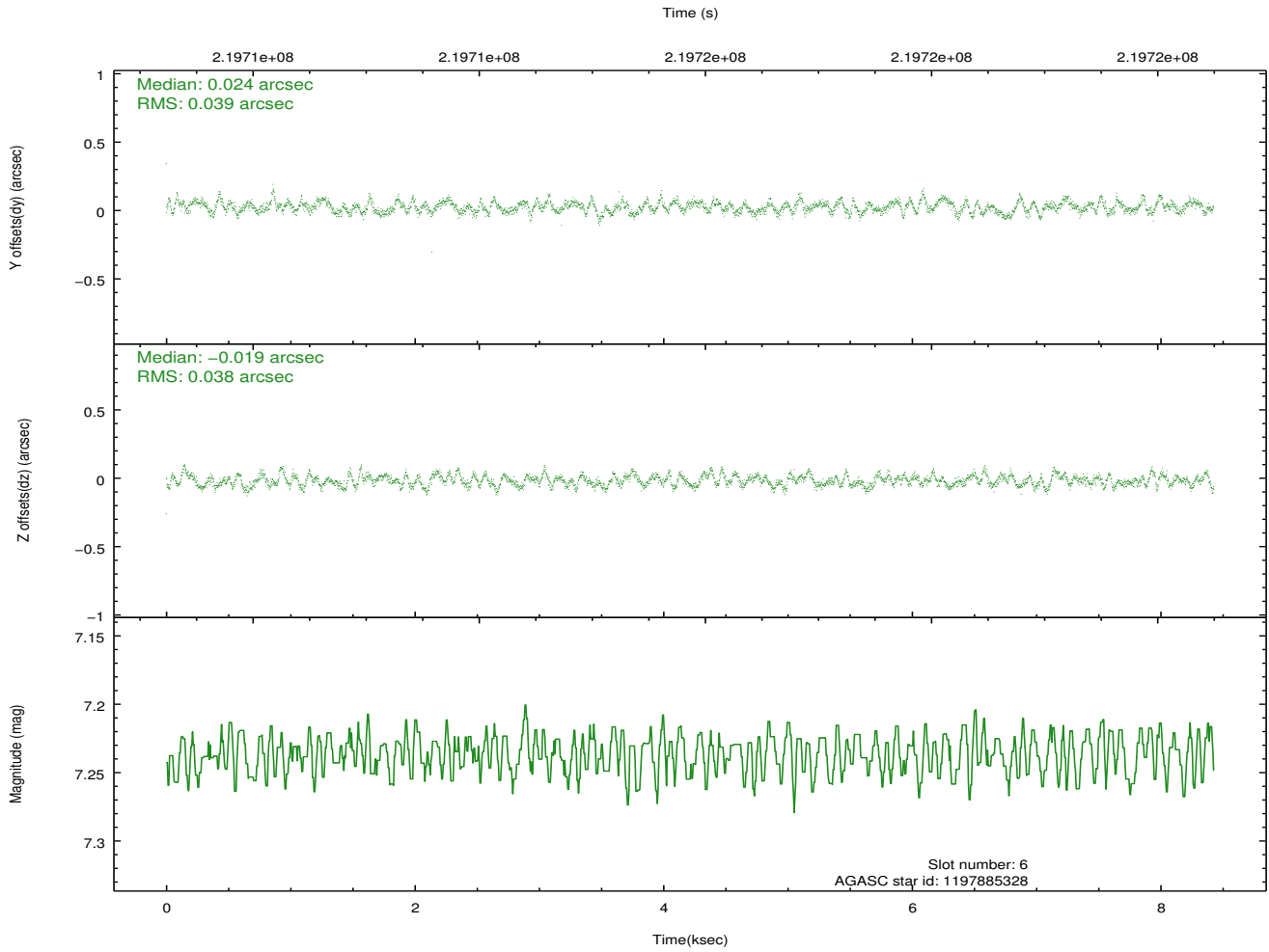
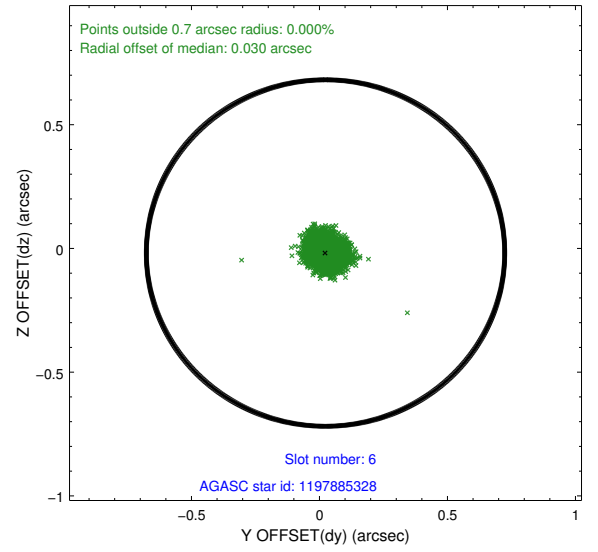
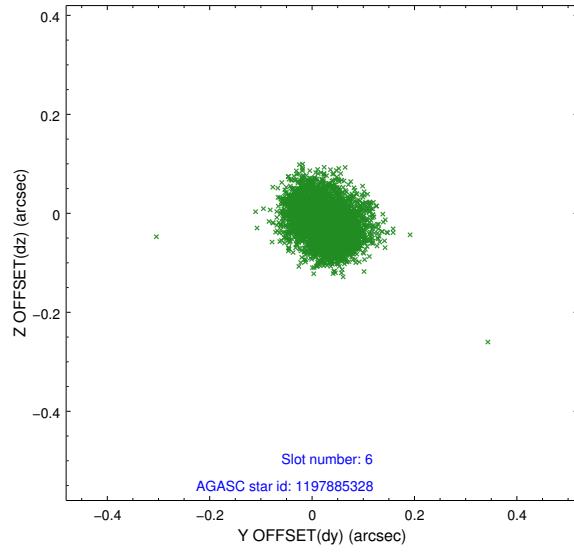
## 2.4.2 Slot 4



### 2.4.3 Slot 5

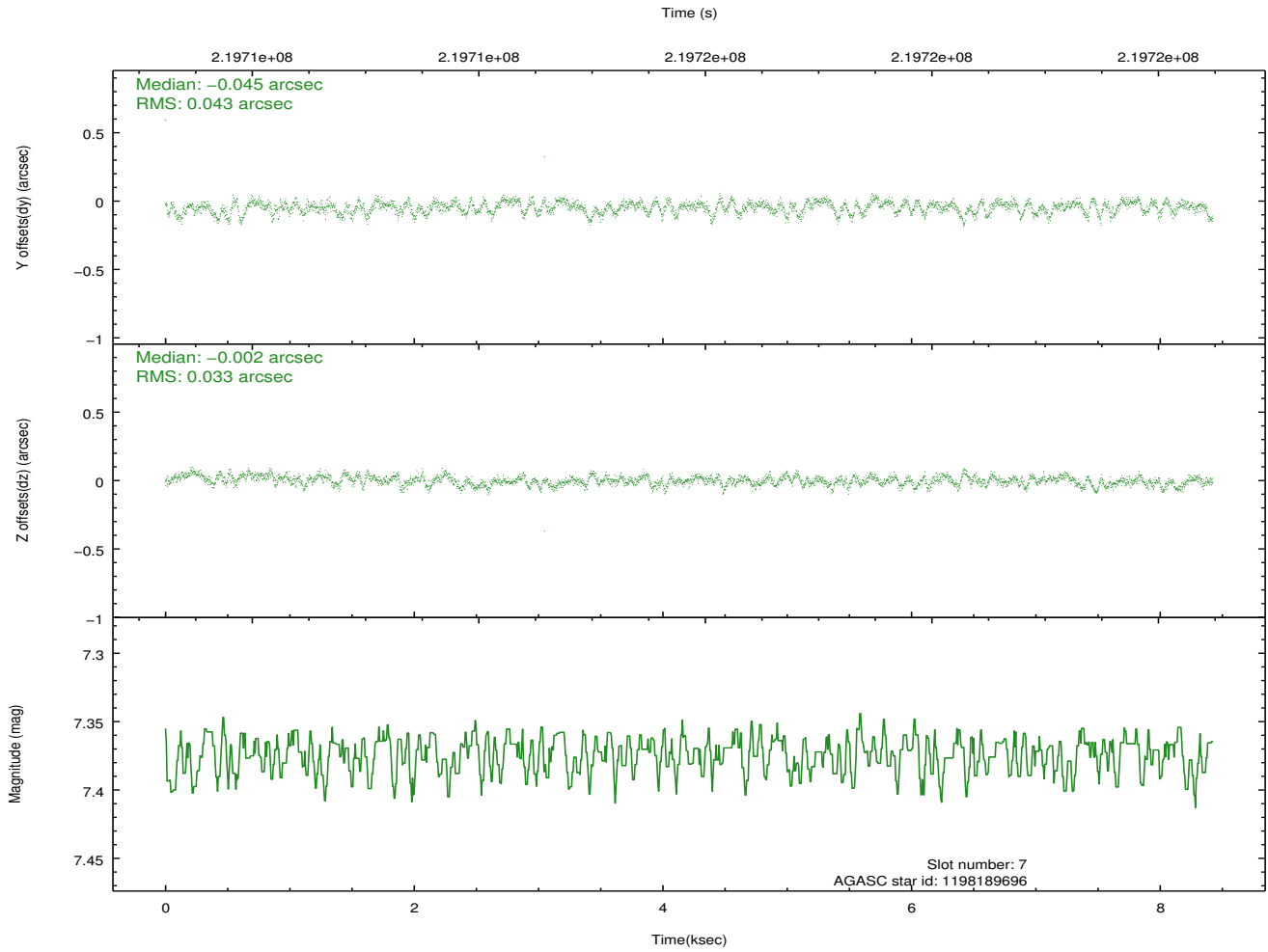
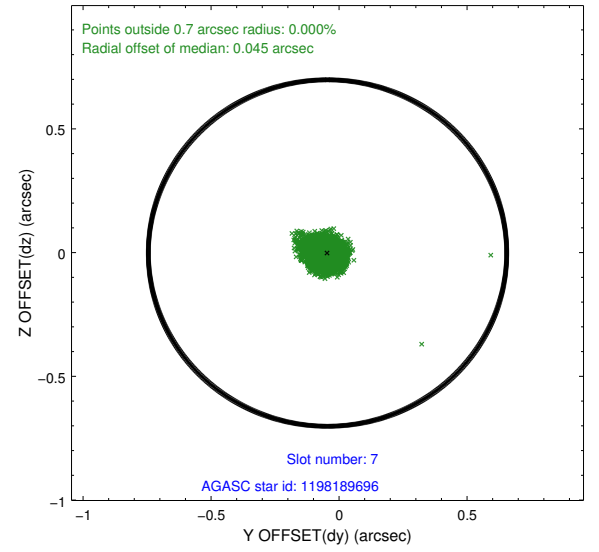
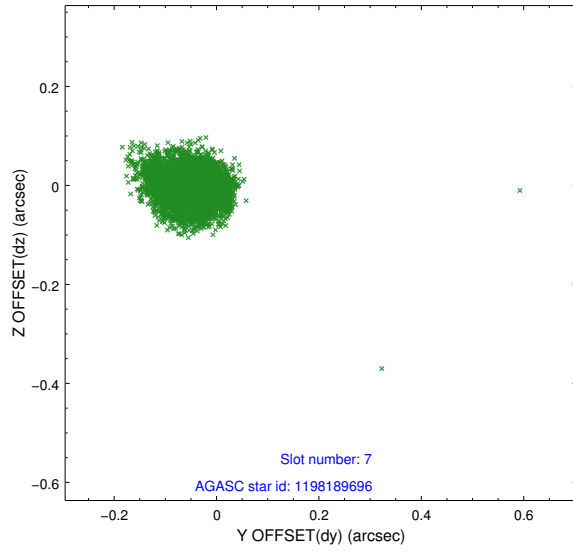


## 2.4.4 Slot 6



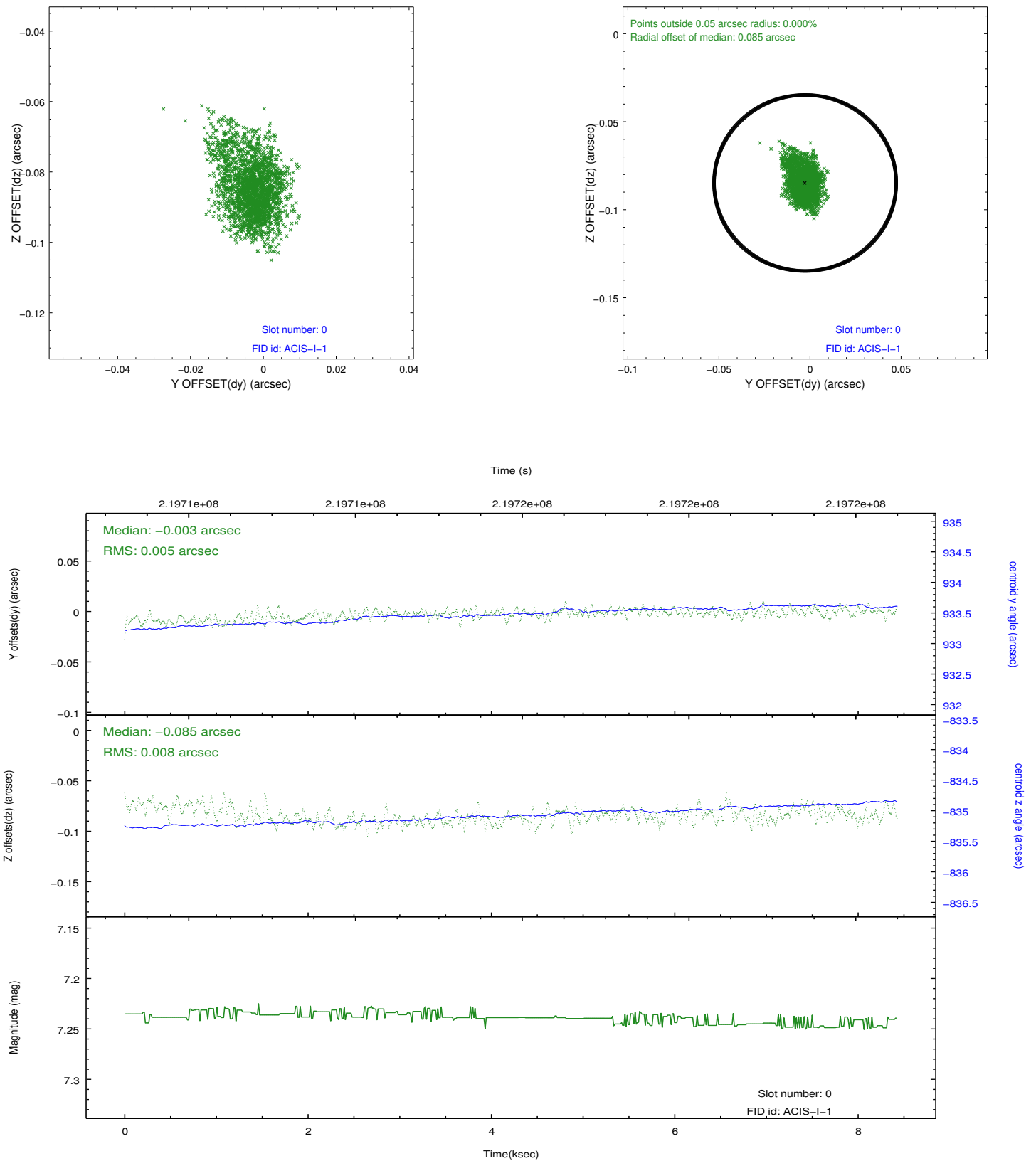


## 2.4.5 Slot 7

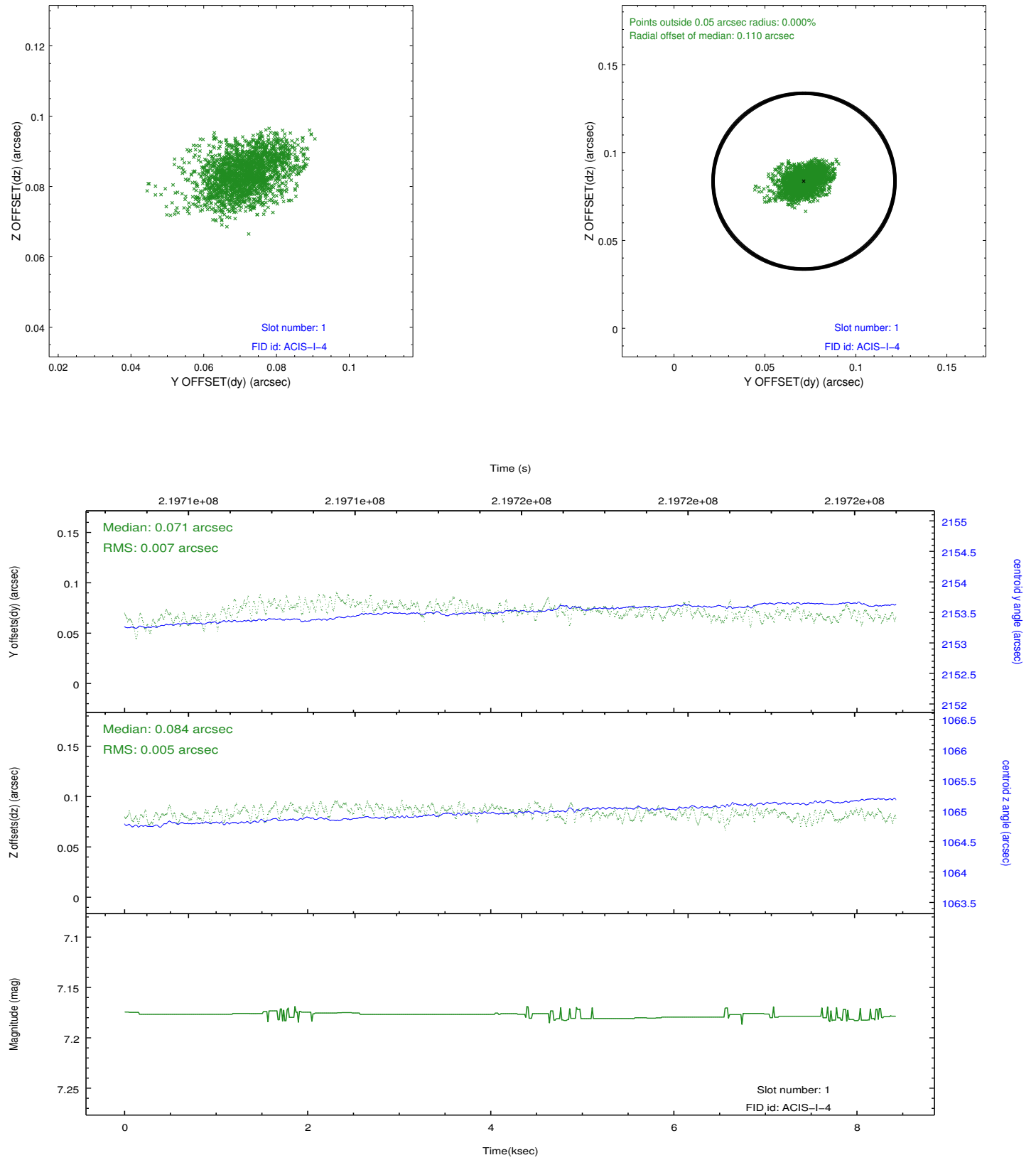


## 2.5 FID Slots

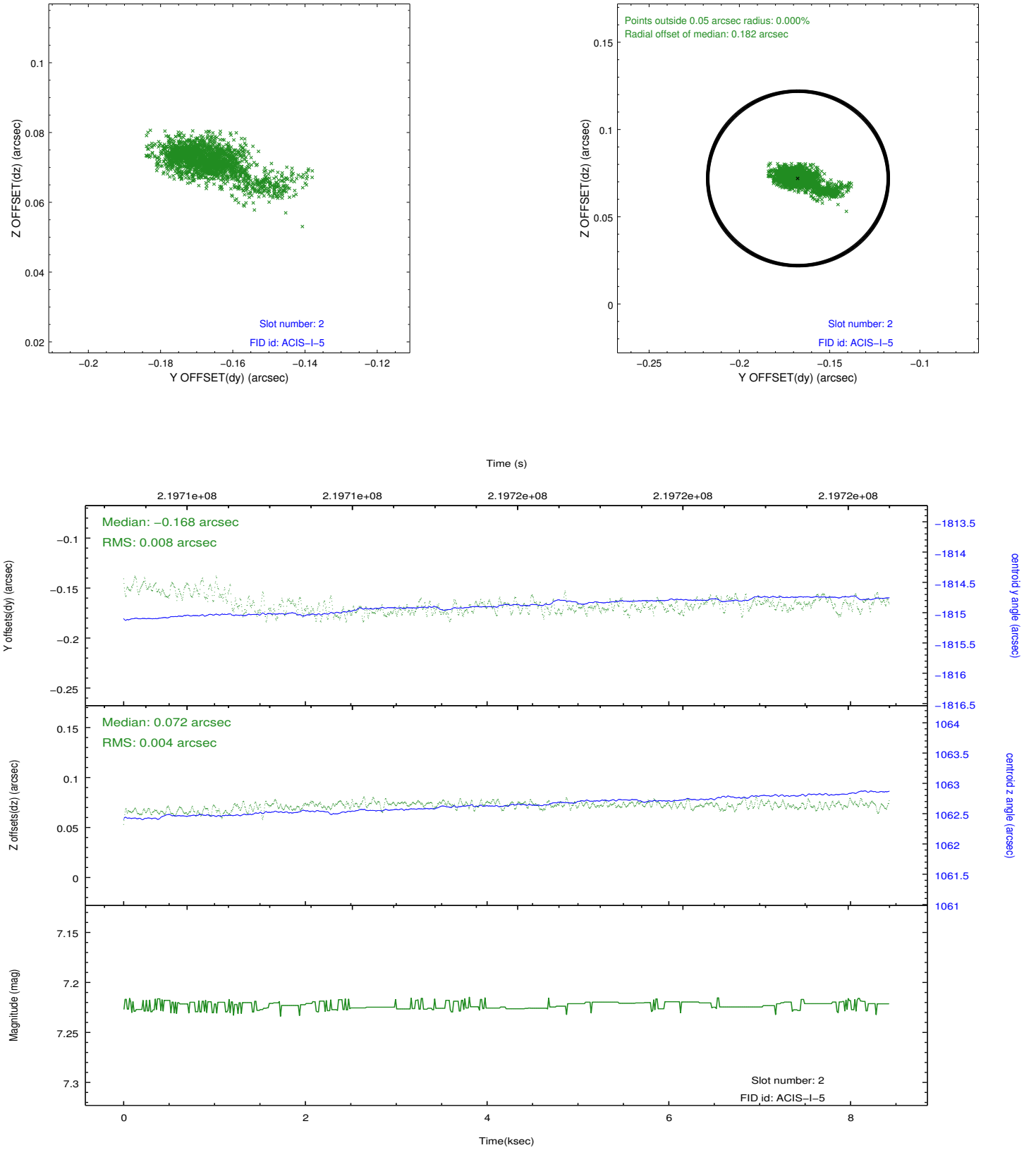
### 2.5.1 Slot 0



## 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)	2013.01.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.955199

### A.2 Comments

Window constraint met.