

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2102 - L2 Version 3  
Chandra X-Ray Center

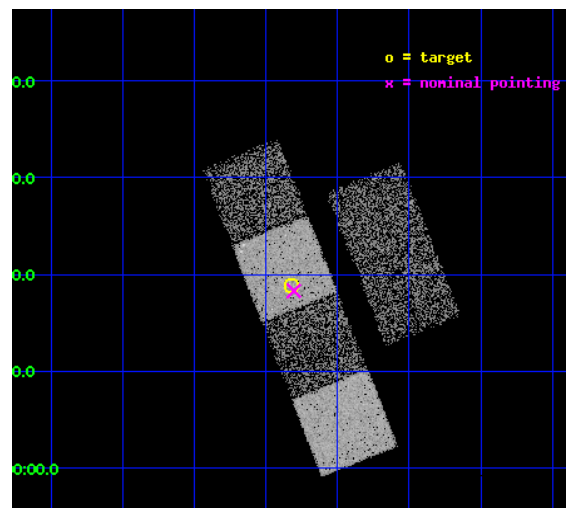
L2 Processing Date : Sep 16 2012

## 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	Bias . . . . .	3
2.1.3	Parameters . . . . .	4
2.1.4	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

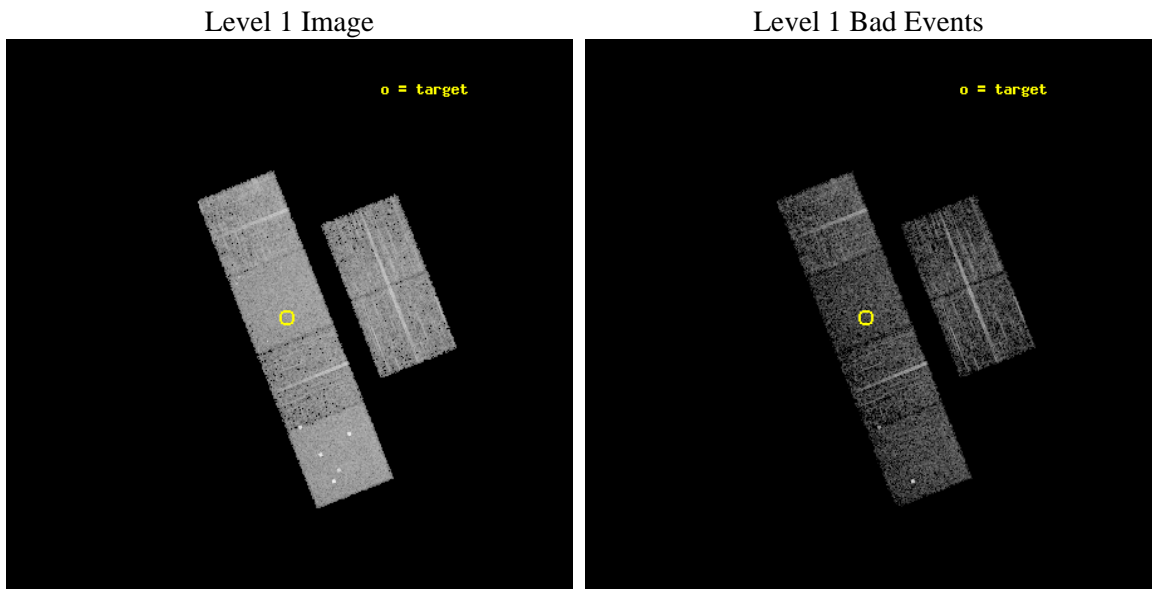
seq_num	700292	Sequence number
obs_id	2102	Observation id
title	PUBLIC OBSERVATIONS OF A WELL-DEFINED SAMPLE OF BAL QSOS FROM THE LARGE BRIGHT QUASAR SURVEY: REMOVING THE BARRIERS	Proposal title
observer	Prof. William Brandt	Principal investigator
object	LBQS 1029-0125	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	157.95625	Observer's specified target RA [deg]
dec_targ	-1.686556	Observer's specified target Dec [deg]
ra_nom	157.95108942923	Nominal RA [deg]
dec_nom	-1.6948624281965	Nominal Dec [deg]
roll_nom	248.43271177072	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4559.9337973595	Sum of GTIs [s]
livetime	4502.1931699548	Livetime [s]
ontime2	4559.9748373628	Sum of GTIs [s]
ontime3	4559.8106773645	Sum of GTIs [s]
ontime5	4559.8927573562	Sum of GTIs [s]
ontime6	4559.8517173678	Sum of GTIs [s]
ontime7	4559.9337973595	Sum of GTIs [s]
ontime8	4556.5285674334	Sum of GTIs [s]
l2events	43582	Number of level 2 events



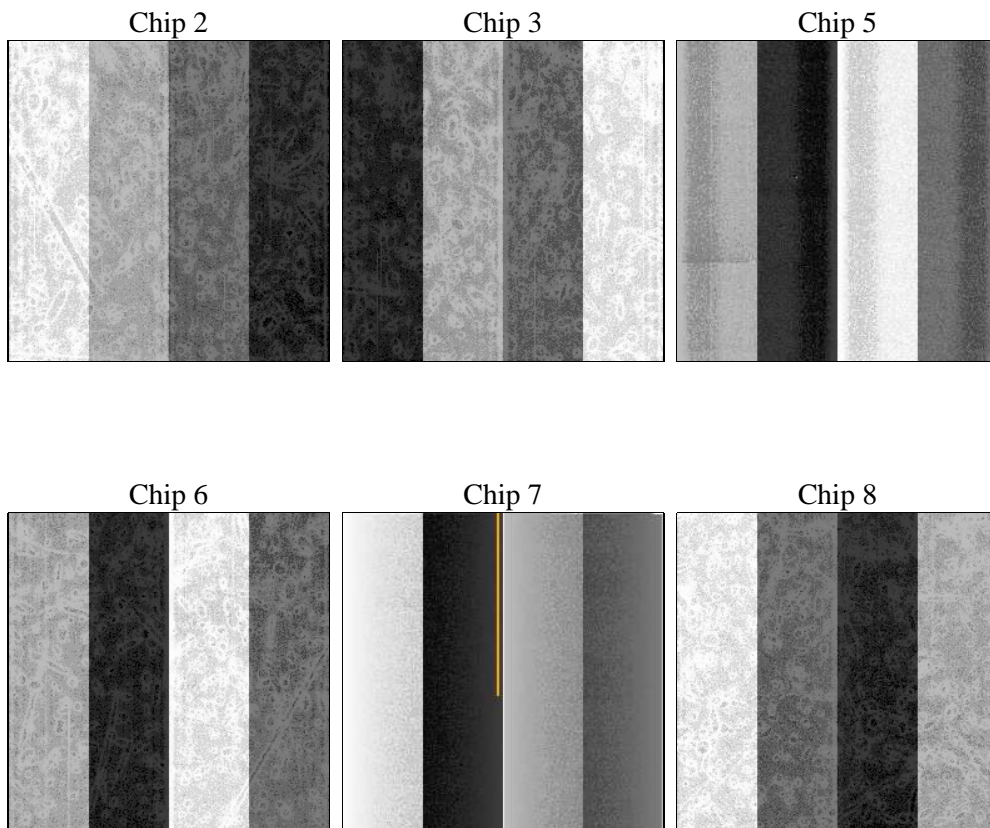
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4800.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4559.9337973595	Sum of GTIs [s]
caldsver	4.5.1.1	&#160	ontime2	4559.9748373628	Sum of GTIs [s]
date	2012-09-17T00:52:46	Date and time of file creation	ontime3	4559.8106773645	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	4559.8927573562	Sum of GTIs [s]
			ontime6	4559.8517173678	Sum of GTIs [s]
			ontime7	4559.9337973595	Sum of GTIs [s]
			ontime8	4556.5285674334	Sum of GTIs [s]
			l1events	202468	Number of level 1 events

### 2.1.4 Events

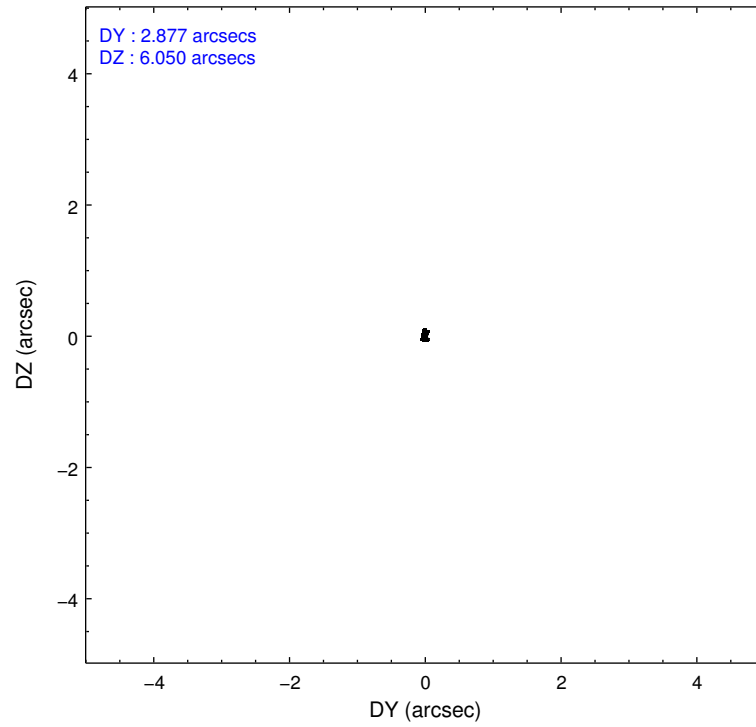
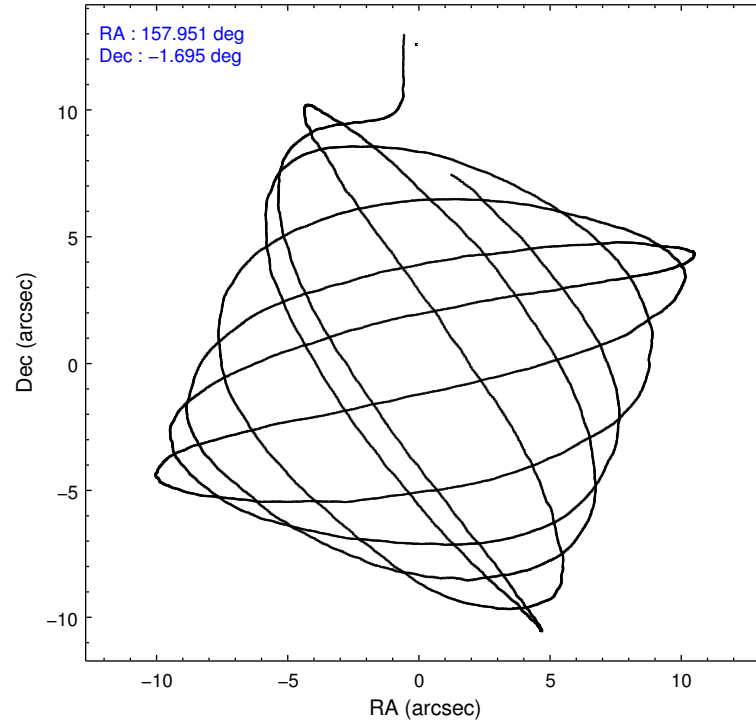
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	29004	28680	43442	27675	36611	37056	grade 0 events	1376	1321	3986	1404	1563	2124
rejected events	25822	25614	22650	24362	21013	30403		4%	4%	9%	5%	4%	5%
rejected %	89%	89%	52%	88%	57%	82%	grade 1 events	12	14	136	13	30	23
								0%	0%	0%	0%	0%	0%
							grade 2 events	696	590	5601	684	3053	1430
								2%	2%	12%	2%	8%	3%
							grade 3 events	273	301	828	284	1469	663
								0%	1%	1%	1%	4%	1%
							grade 4 events	292	302	767	313	1461	631
								1%	1%	1%	1%	3%	1%
							grade 5 events	957	1074	3442	1176	3556	1460
								3%	3%	7%	4%	9%	3%
							grade 6 events	548	553	9628	631	8062	1808
								1%	1%	22%	2%	22%	4%
							grade 7 events	24850	24525	19054	23170	17417	28917
								85%	85%	43%	83%	47%	78%

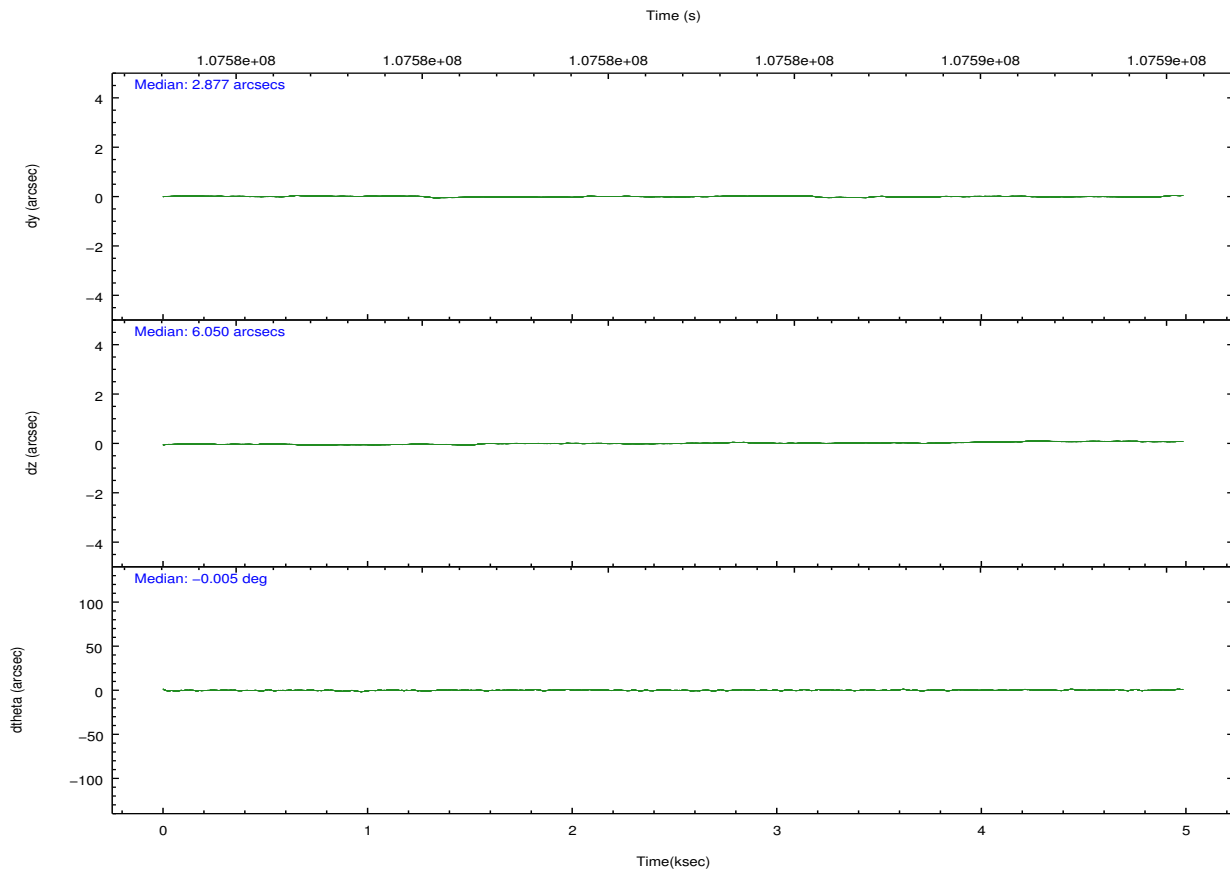
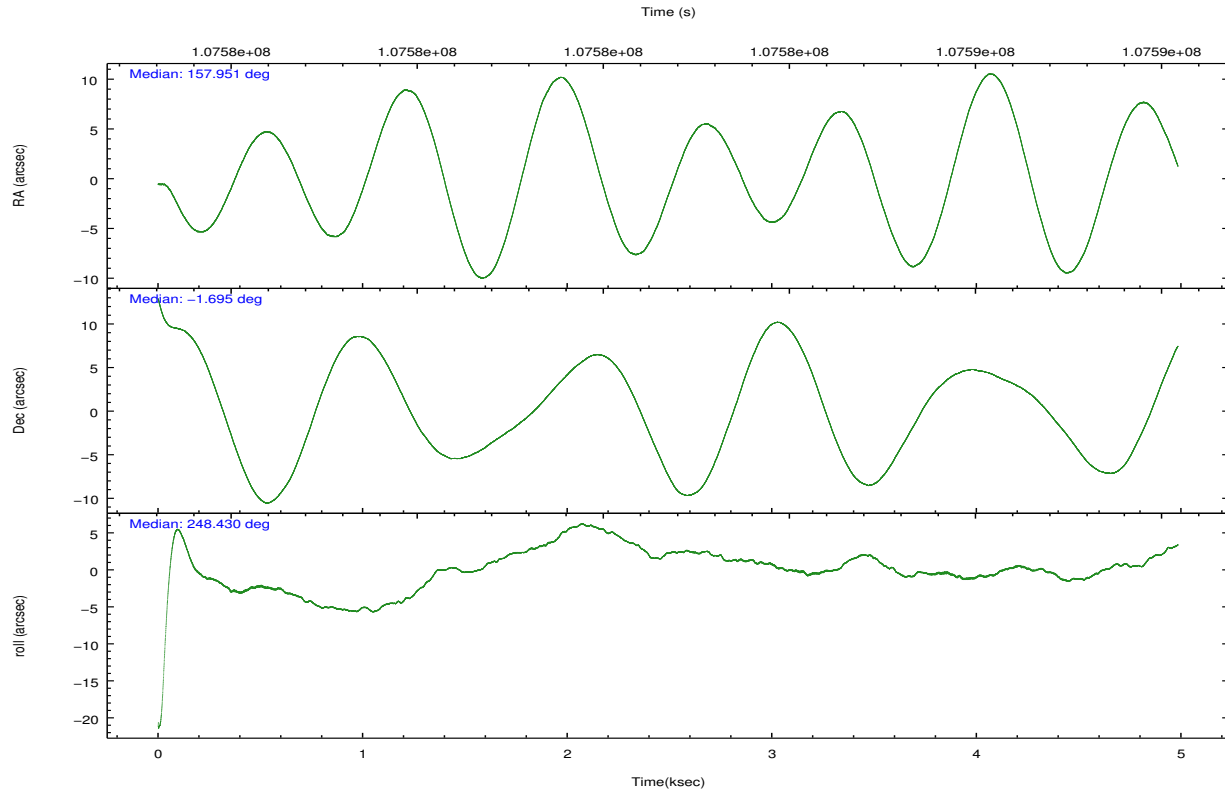


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	157.946815	157.9510894292328	Subarray requested	NONE	NONE
[deg] Pointing Dec	-1.667907	-1.694862428196529	Alternating exposures requested	N	N
[deg] Pointing Roll	248.276034	248.4327117707182	[s] Primary exposure time	0.000000	3.2
[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)	107582042.184000	107581261.8994			
Observation start date	2001-05-30T03:52:58	2001-05-30T03:41:01			
[s] Observation end time (MET)	107586842.184000	107587629.71215			
Observation end date	2001-05-30T05:12:58	2001-05-30T05:27:09			
Read mode	TIMED	TIMED			

## 2.3 Aspect



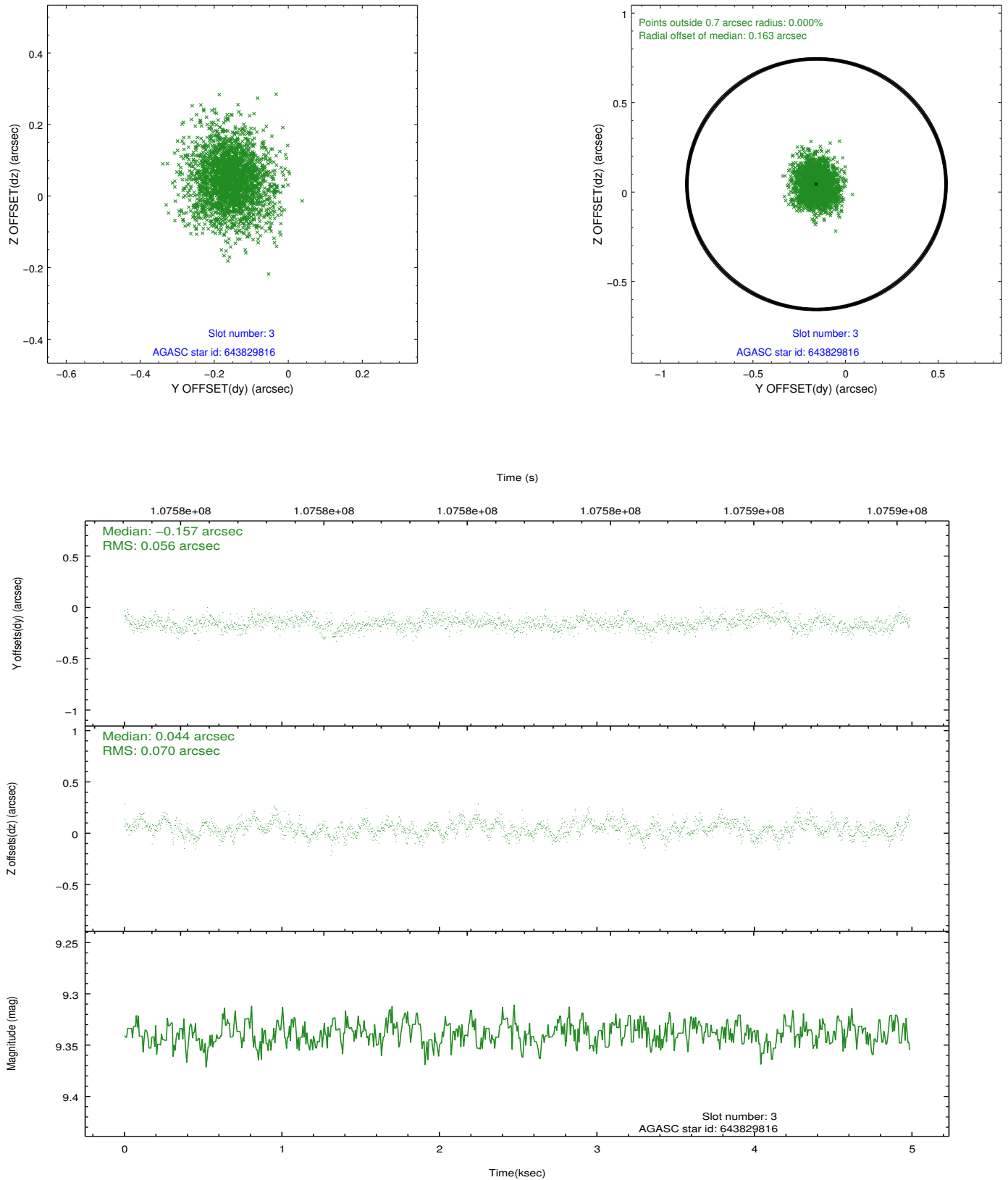


### Slot Statistics

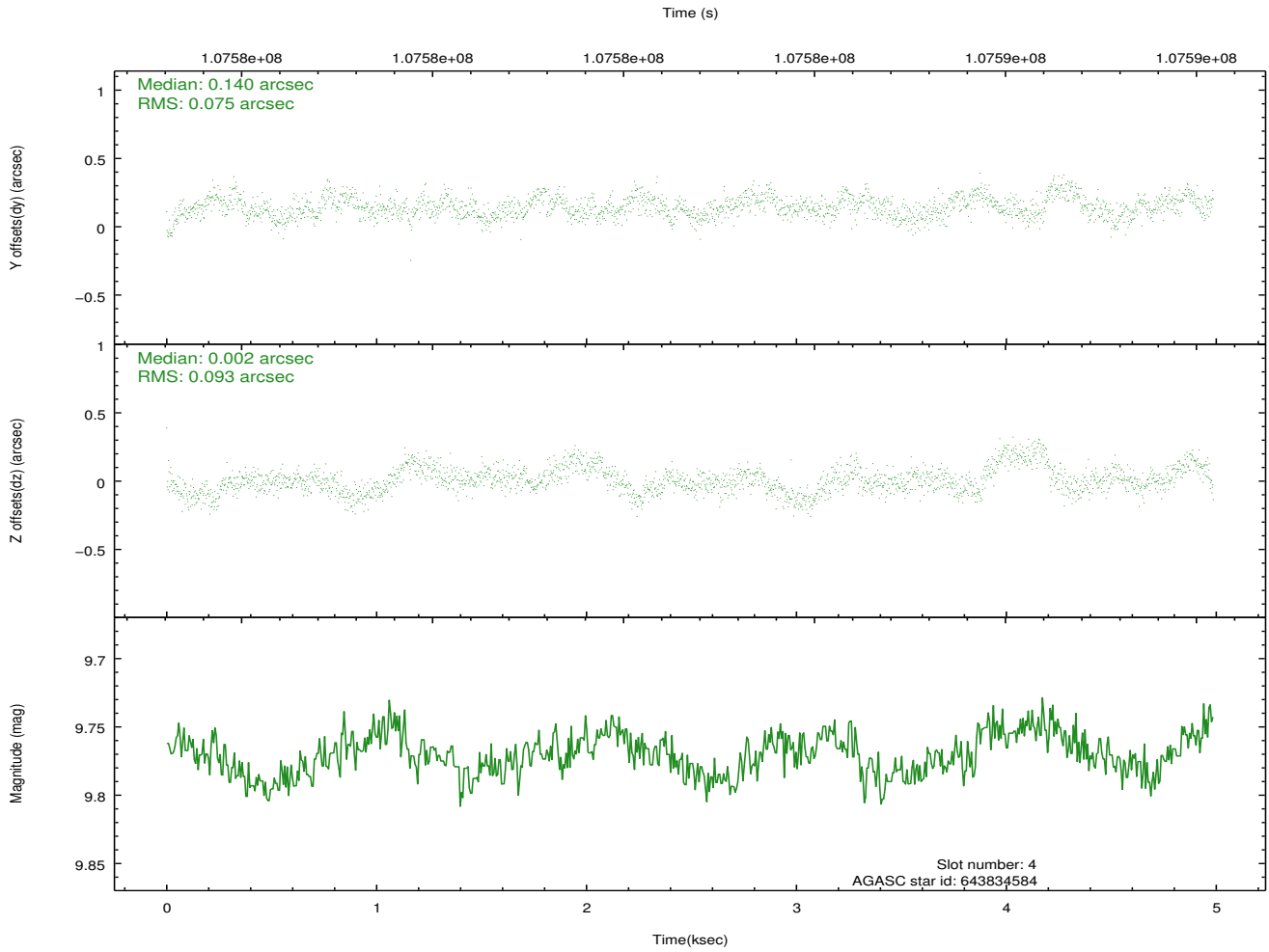
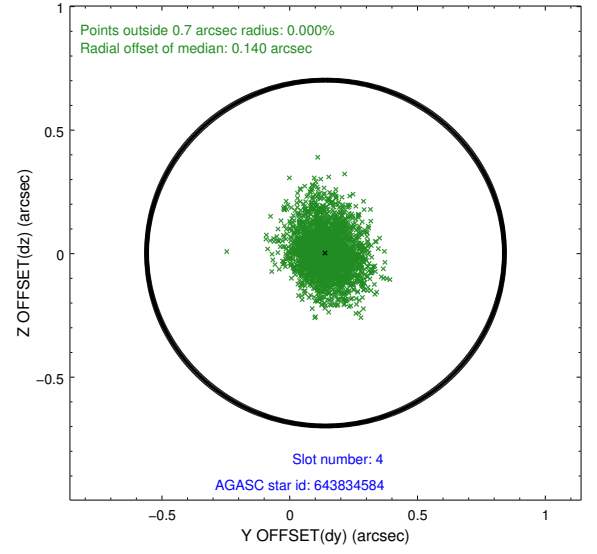
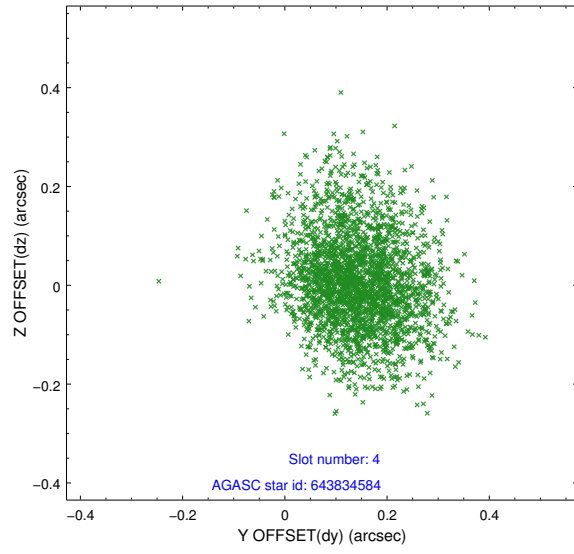
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	1216	-0.025	0.013	0.006	0.011	0.000000	0.000000	-755.50	-1727.20
1	FID	ACIS-S-4	7.20	1216	-0.045	0.008	0.005	0.009	0.000000	0.000000	2157.17	180.08
2	FID	ACIS-S-5	7.23	1217	0.038	-0.013	0.006	0.011	0.000000	0.000000	-1806.75	175.04
3	GUIDE	643829816	9.34	2431	-0.157	0.044	0.093	0.159	158.387003	-1.168890	-2254.20	806.59
4	GUIDE	643834584	9.77	2433	0.140	0.002	0.127	0.211	158.048553	-1.926316	729.07	684.37
5	GUIDE	643833752	10.01	2430	0.095	0.002	0.103	0.168	158.016488	-1.875342	602.50	509.23
6	GUIDE	643832120	9.91	2424	0.066	0.061	0.133	0.208	157.875260	-1.772262	445.91	-100.10
7	GUIDE	643827984	8.93	2432	-0.149	-0.119	0.072	0.116	157.876198	-1.033797	-2025.36	-1081.62

## 2.4 Star Slots

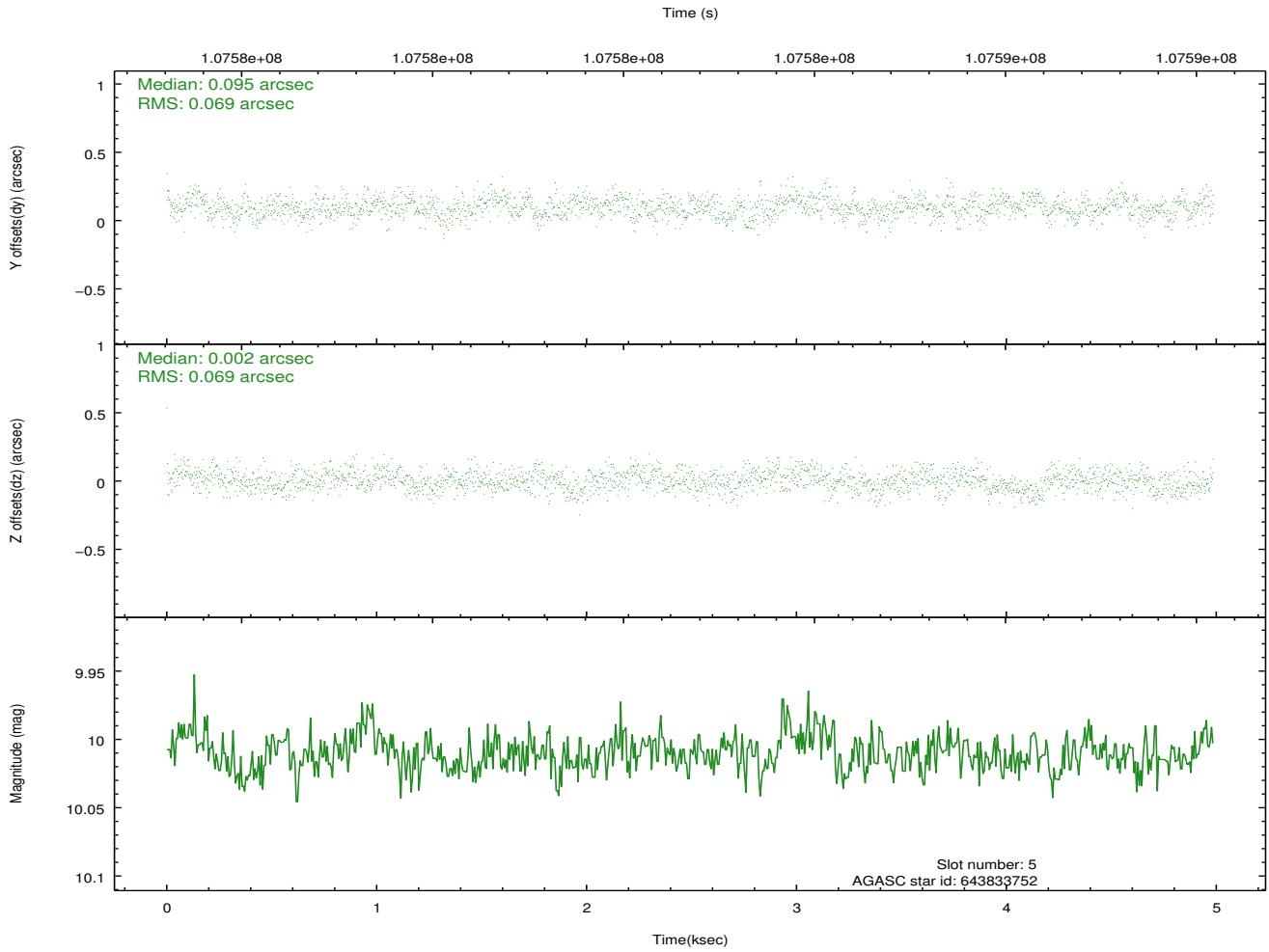
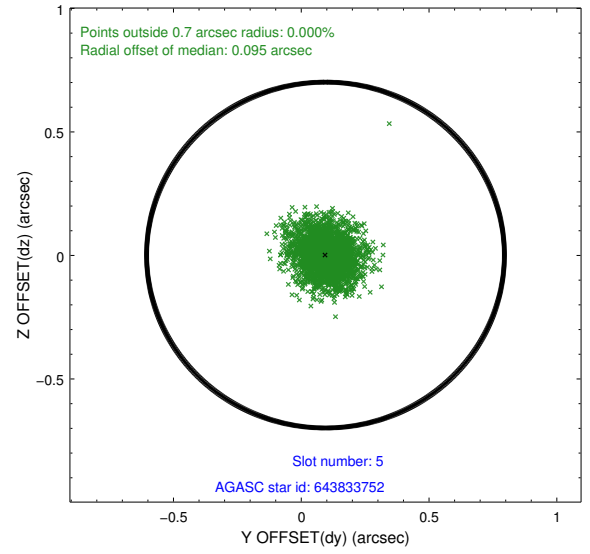
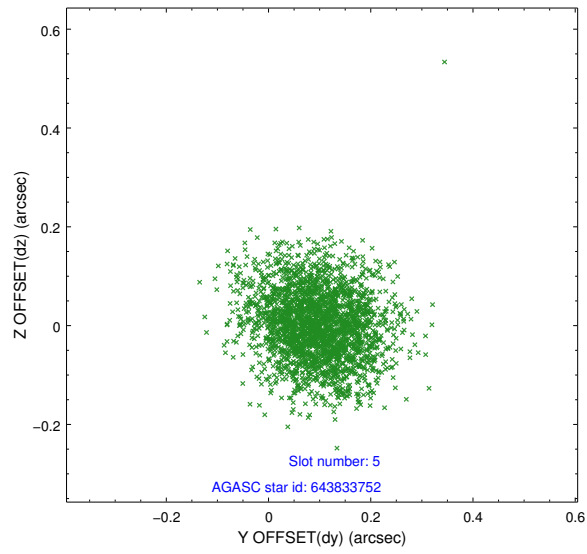
### 2.4.1 Slot 3



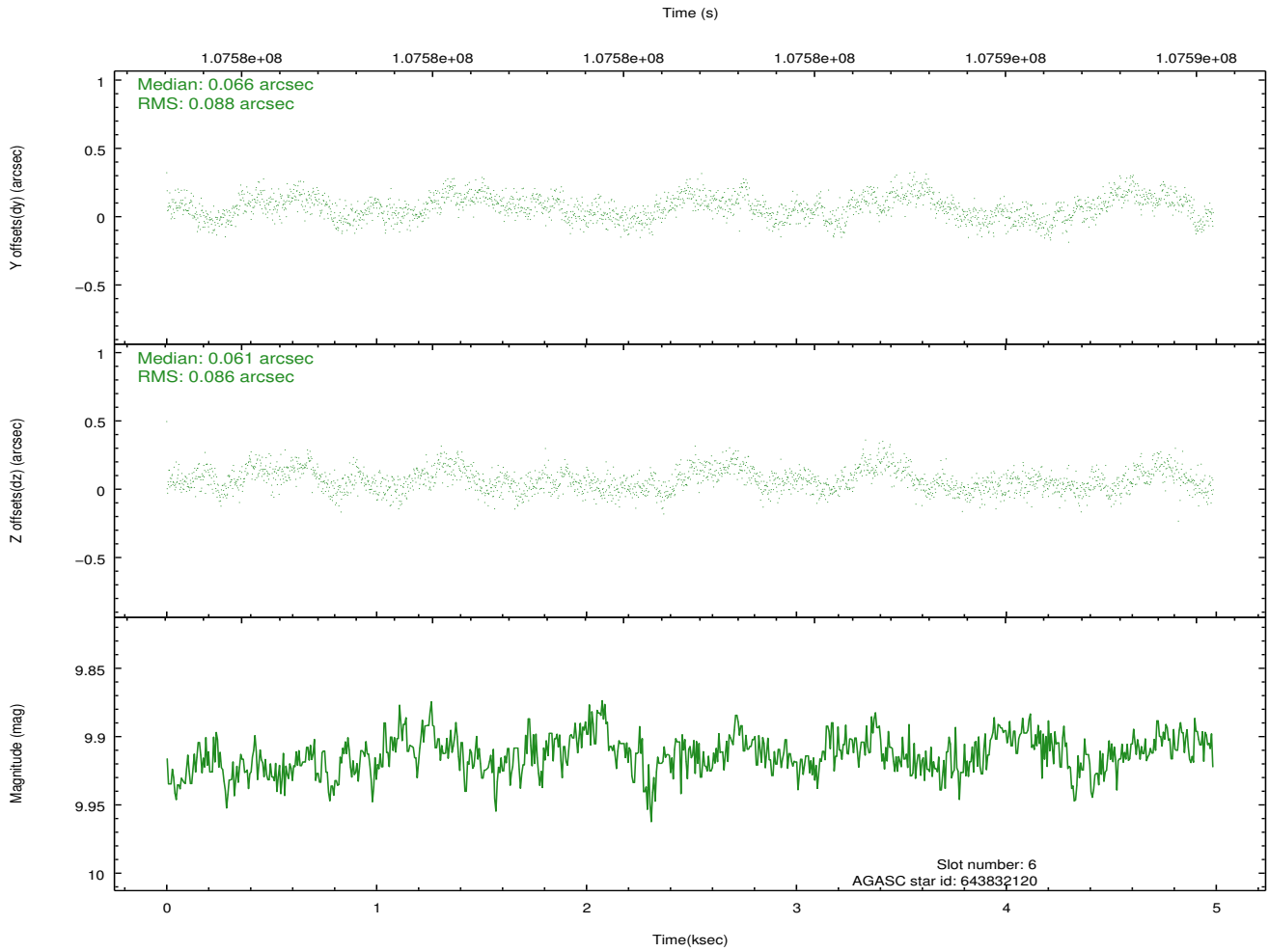
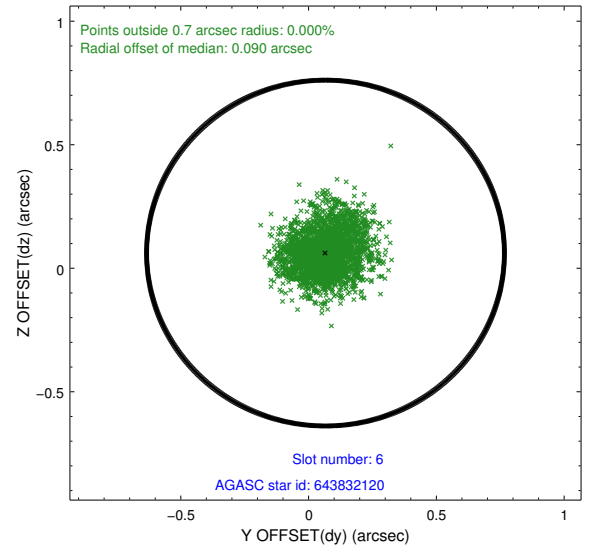
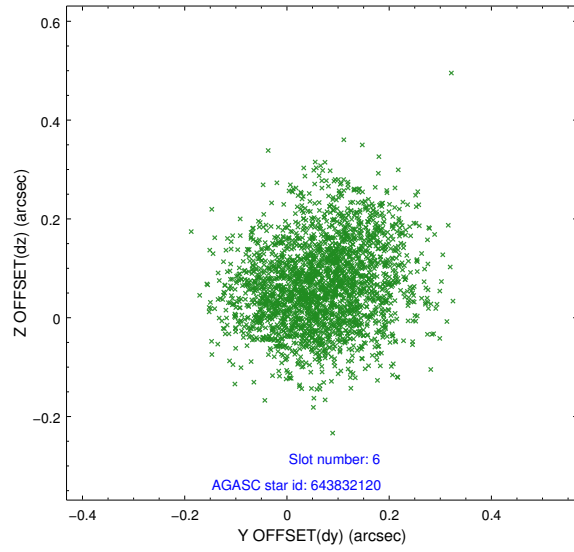
## 2.4.2 Slot 4



### 2.4.3 Slot 5

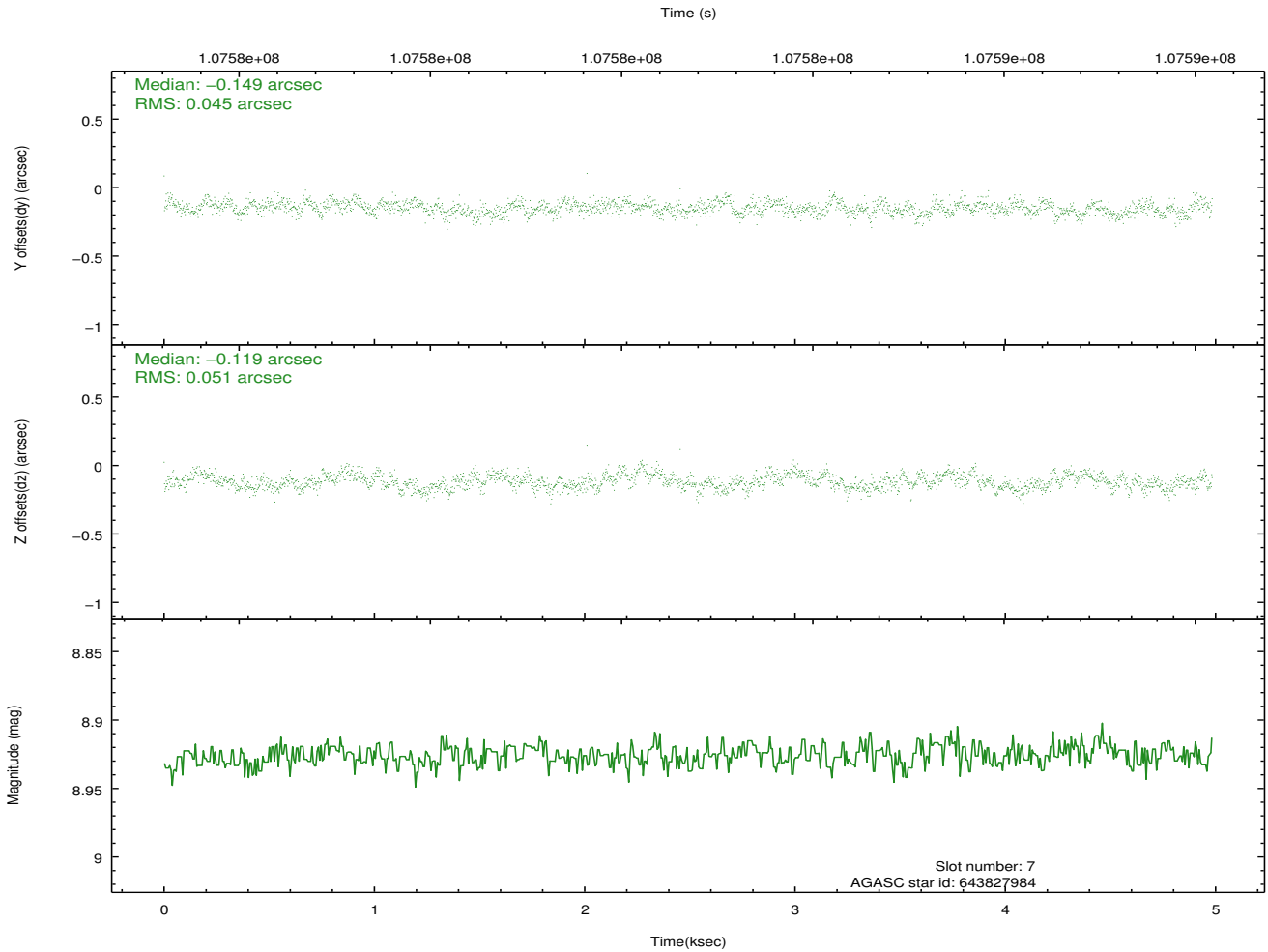
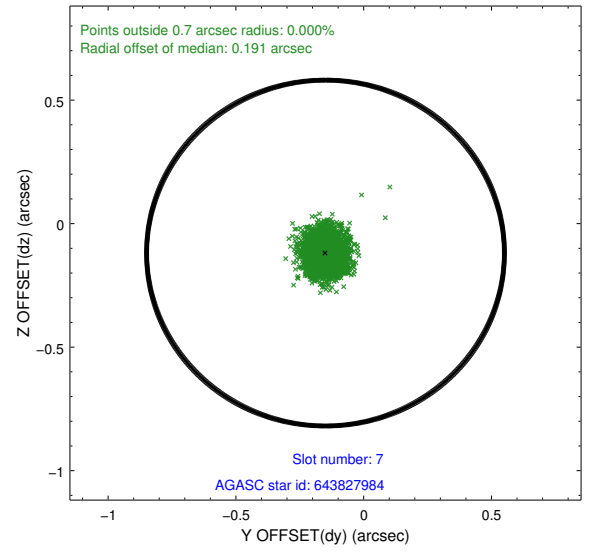
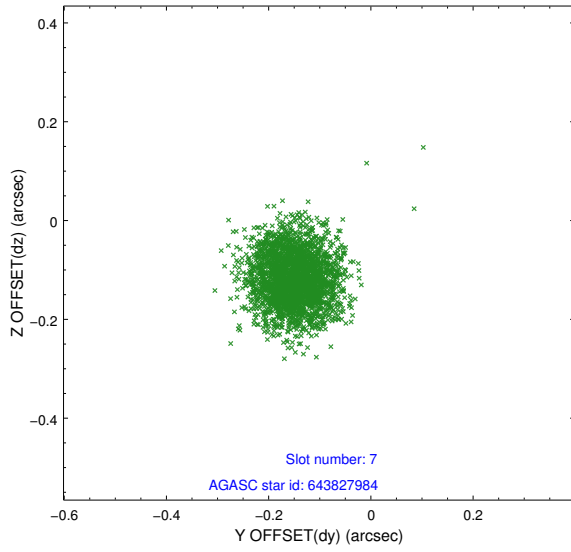


## 2.4.4 Slot 6



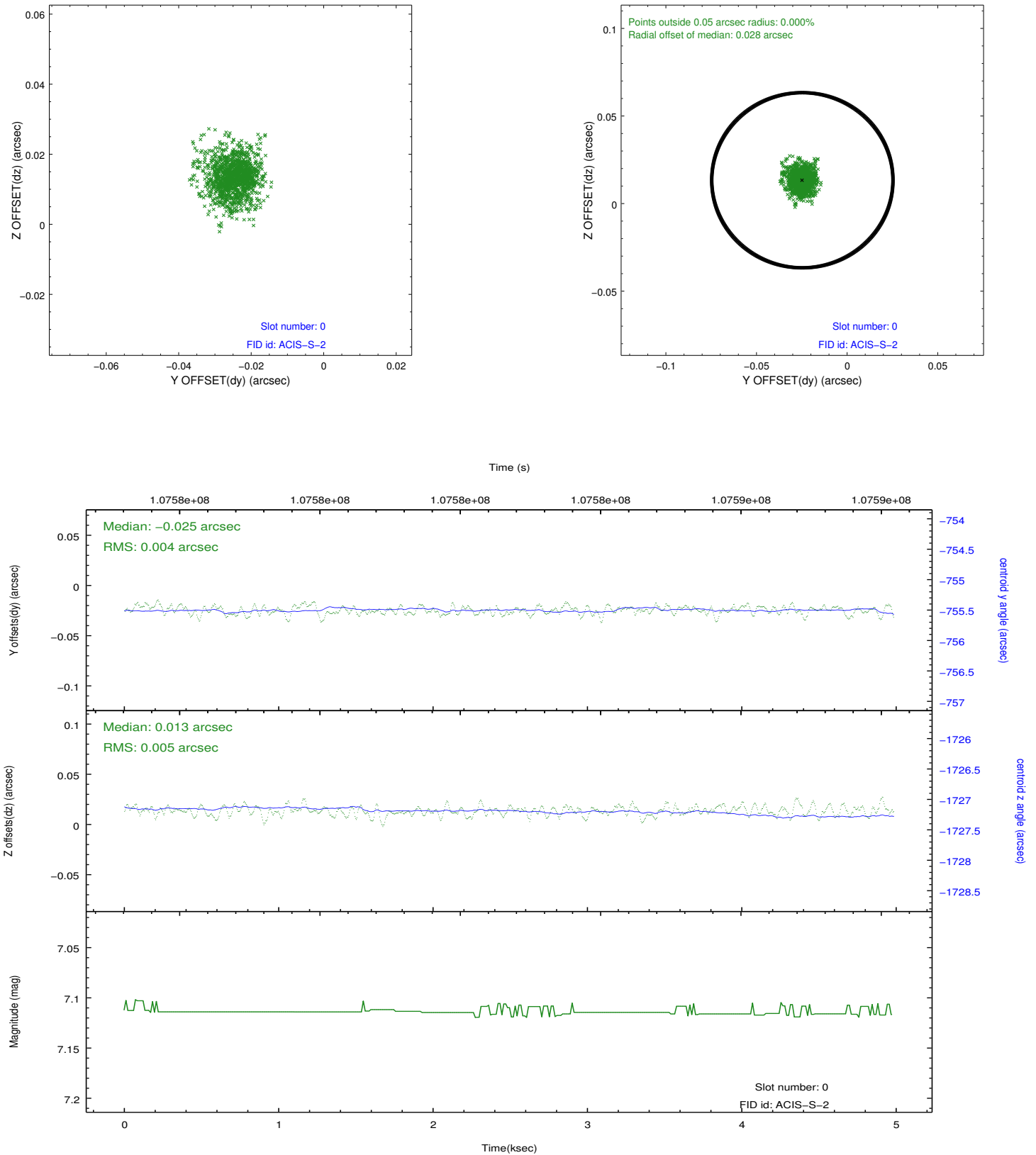


### 2.4.5 Slot 7

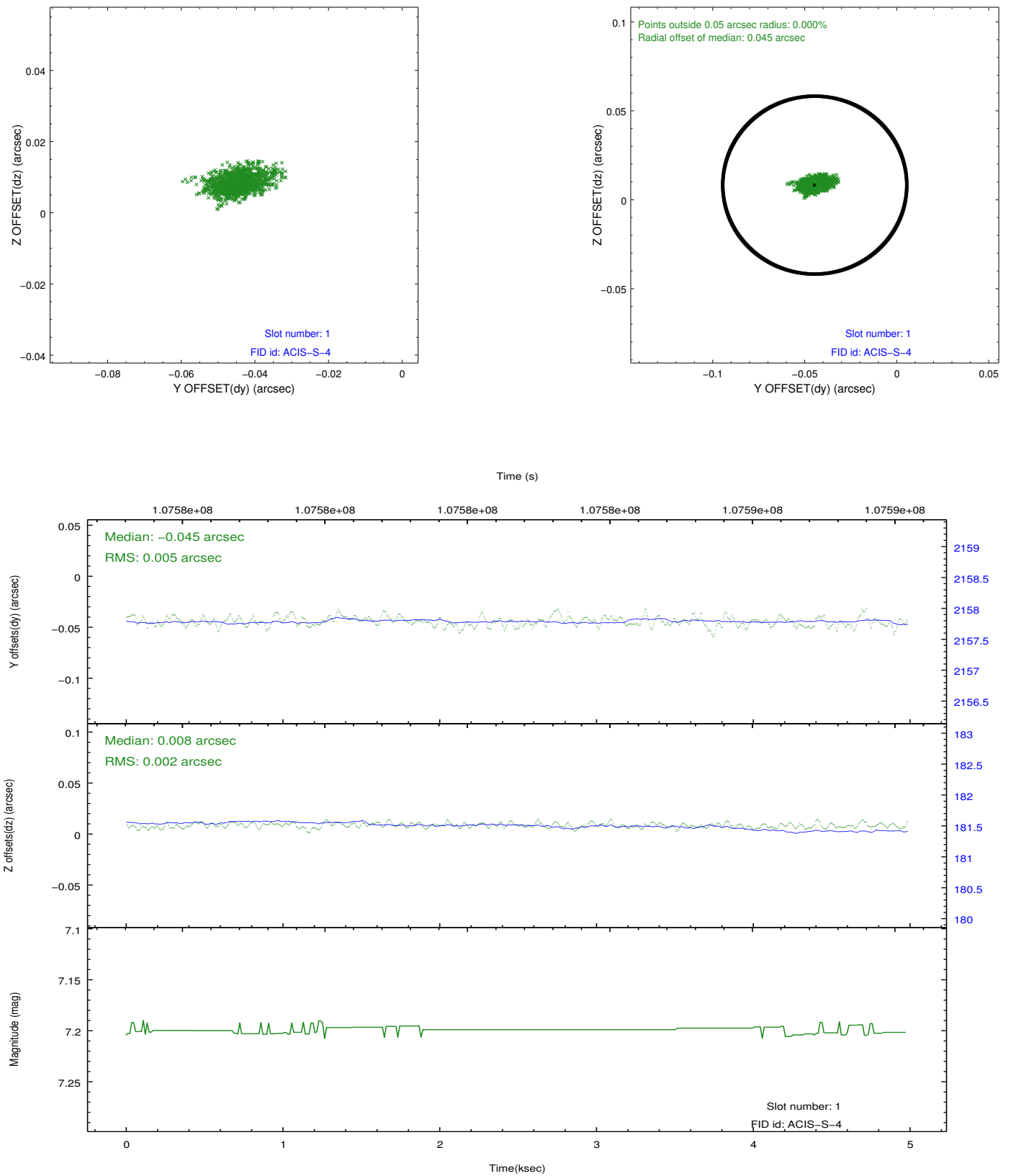


## 2.5 FID Slots

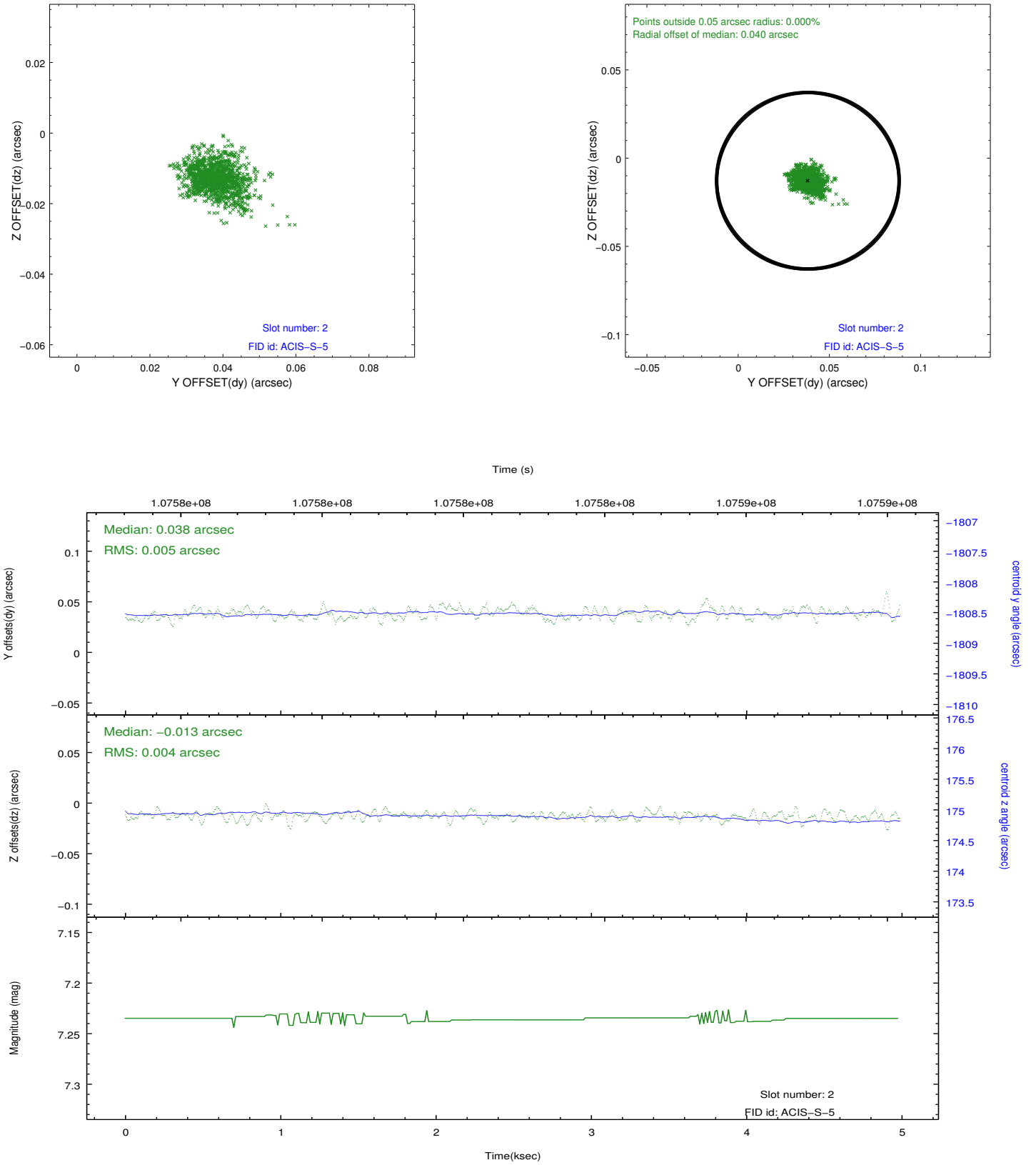
### 2.5.1 Slot 0



## 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)	2012.09.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.6

### A.2 Comments