

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2392 - L2 Version 3  
Chandra X-Ray Center

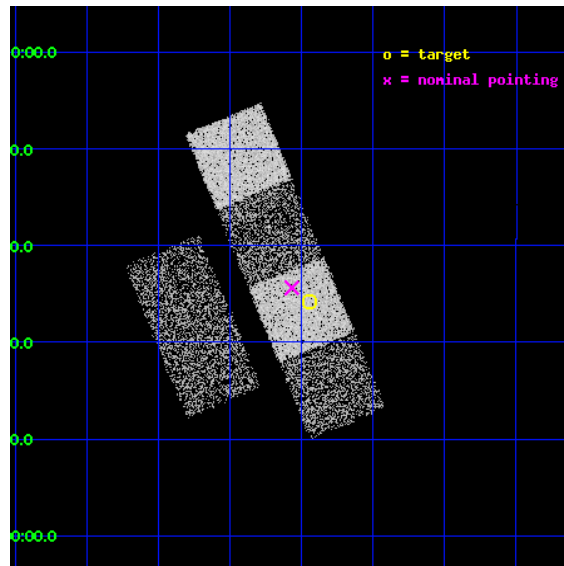
L2 Processing Date : Sep 6 2012

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# 1 Front

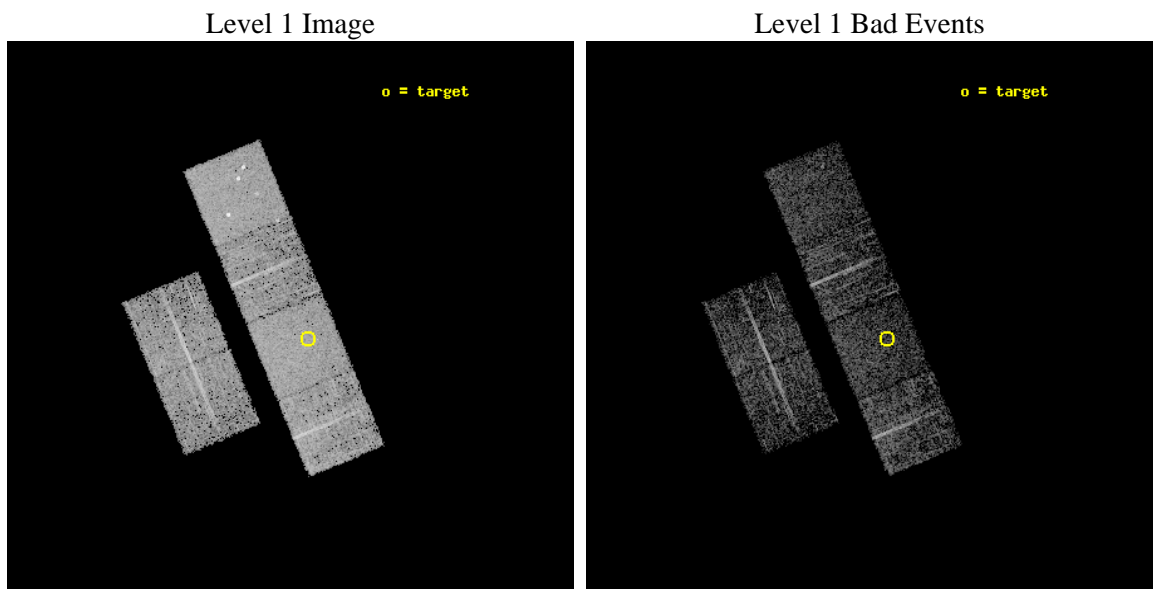
seq_num	100021	Sequence number
obs_id	2392	Observation id
title	X-RAY SPECTROSCOPY OF COMET C/1999 T1	Proposal title
observer	Dr. Vladimir Krasnopolsky	Principal investigator
object	C/1999 T1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	233.11164	Observer's specified target RA [deg]
dec_targ	-2.59748	Observer's specified target Dec [deg]
ra_nom	233.14184573494	Nominal RA [deg]
dec_nom	-2.5729517459259	Nominal Dec [deg]
roll_nom	67.497522387417	Nominal Roll [deg]
revision	3	Processing version of data
ontime	3394.3464066833	Sum of GTIs [s]
livetime	3351.3651486519	Livetime [s]
ontime2	3394.3874466866	Sum of GTIs [s]
ontime3	3394.2232866883	Sum of GTIs [s]
ontime5	3394.30536668	Sum of GTIs [s]
ontime6	3394.2643266916	Sum of GTIs [s]
ontime7	3394.3464066833	Sum of GTIs [s]
ontime8	3394.182246685	Sum of GTIs [s]
l2events	34153	Number of level 2 events



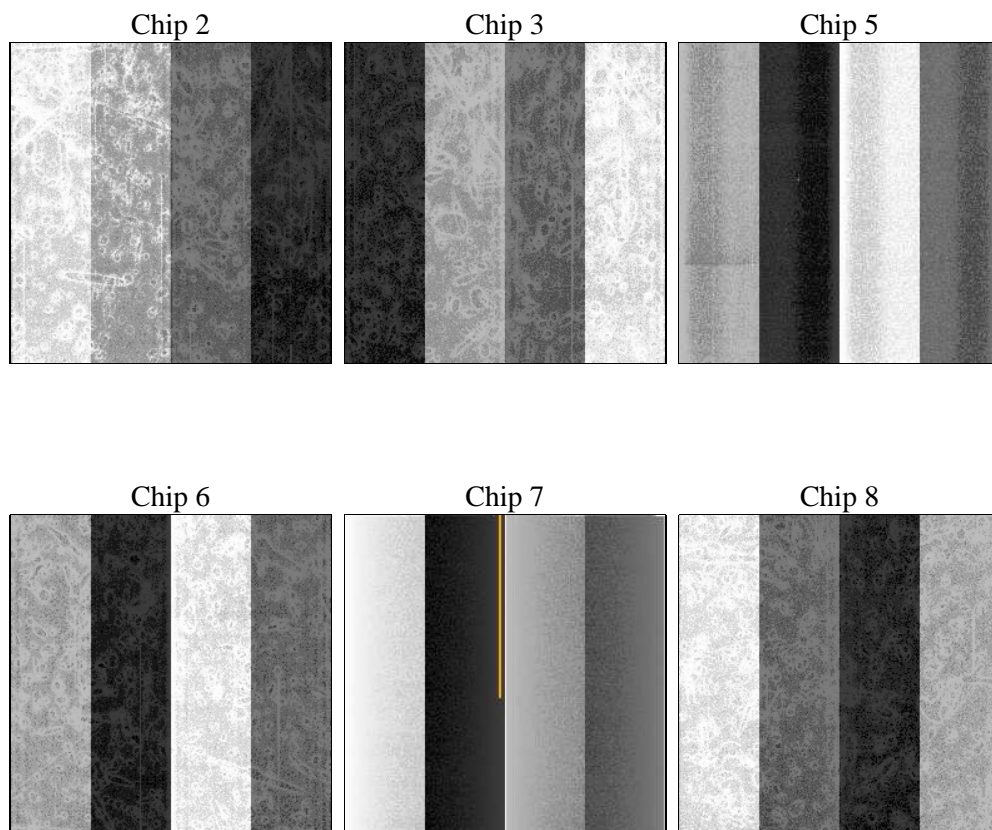
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3400.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	3394.3464066833	Sum of GTIs [s]
caldbver	4.5.1.1	&#160	ontime2	3394.3874466866	Sum of GTIs [s]
date	2012-09-06T11:08:33	Date and time of file creation	ontime3	3394.2232866883	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	3394.30536668	Sum of GTIs [s]
			ontime6	3394.2643266916	Sum of GTIs [s]
			ontime7	3394.3464066833	Sum of GTIs [s]
			ontime8	3394.182246685	Sum of GTIs [s]
			l1events	146467	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	21245	19301	30853	21193	27139	26736	grade 0 events	1247	1140	2720	1280	1469	2027
rejected events	18507	16752	15614	18330	15204	20871		5%	5%	8%	6%	5%	7%
rejected %	87%	86%	50%	86%	56%	78%	grade 1 events	8	10	48	12	25	16
								0%	0%	0%	0%	0%	0%
							grade 2 events	591	510	4401	619	2330	1252
								2%	2%	14%	2%	8%	4%
							grade 3 events	236	219	586	251	1033	645
								1%	1%	1%	1%	3%	2%
							grade 4 events	207	230	576	229	1074	587
								0%	1%	1%	1%	3%	2%
							grade 5 events	688	799	2160	889	2559	1083
								3%	4%	7%	4%	9%	4%
							grade 6 events	460	453	6980	485	6048	1362
								2%	2%	22%	2%	22%	5%
							grade 7 events	17808	15940	13382	17428	12601	19764
								83%	82%	43%	82%	46%	73%

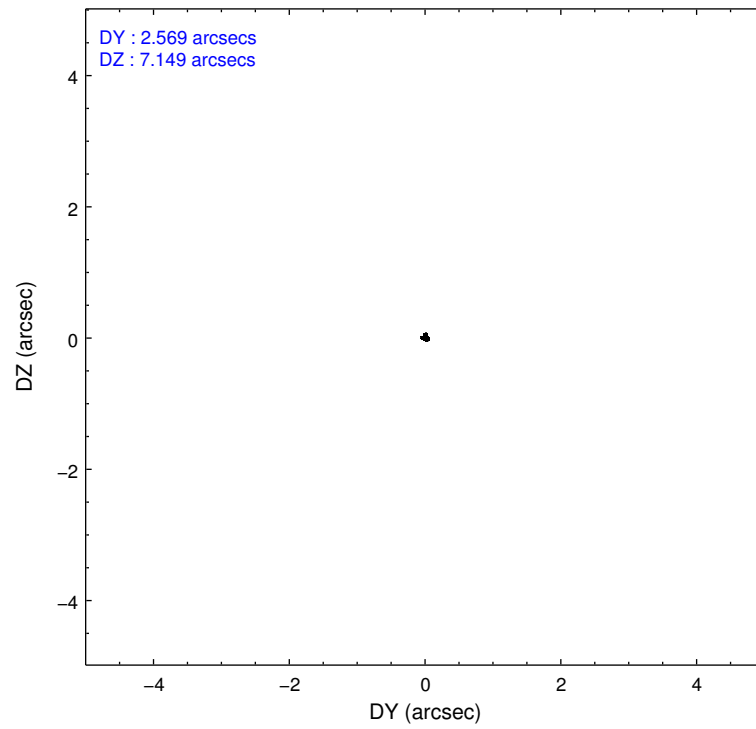
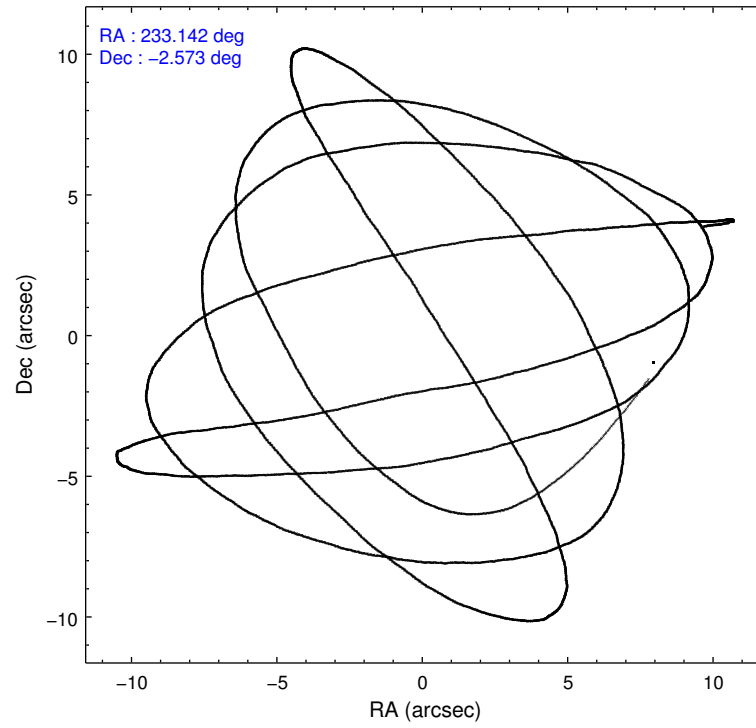


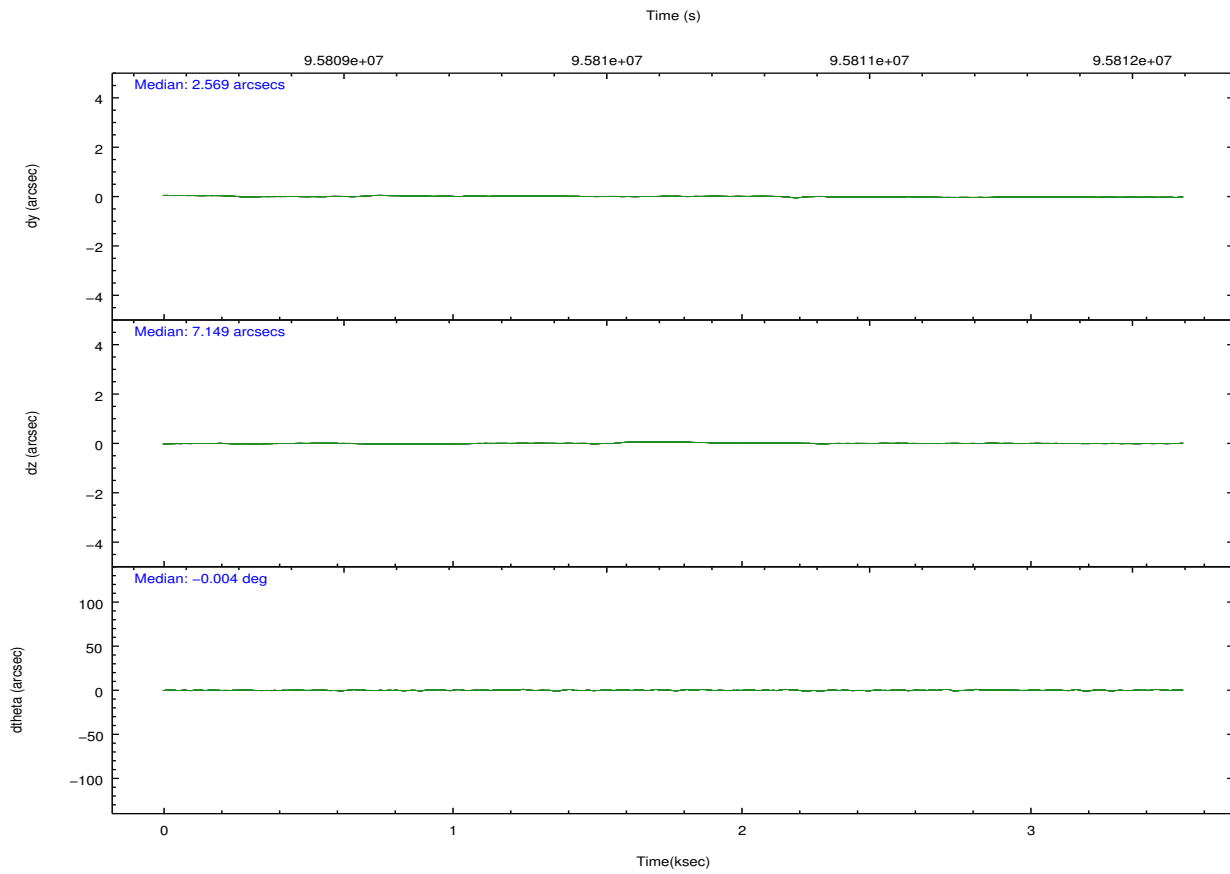
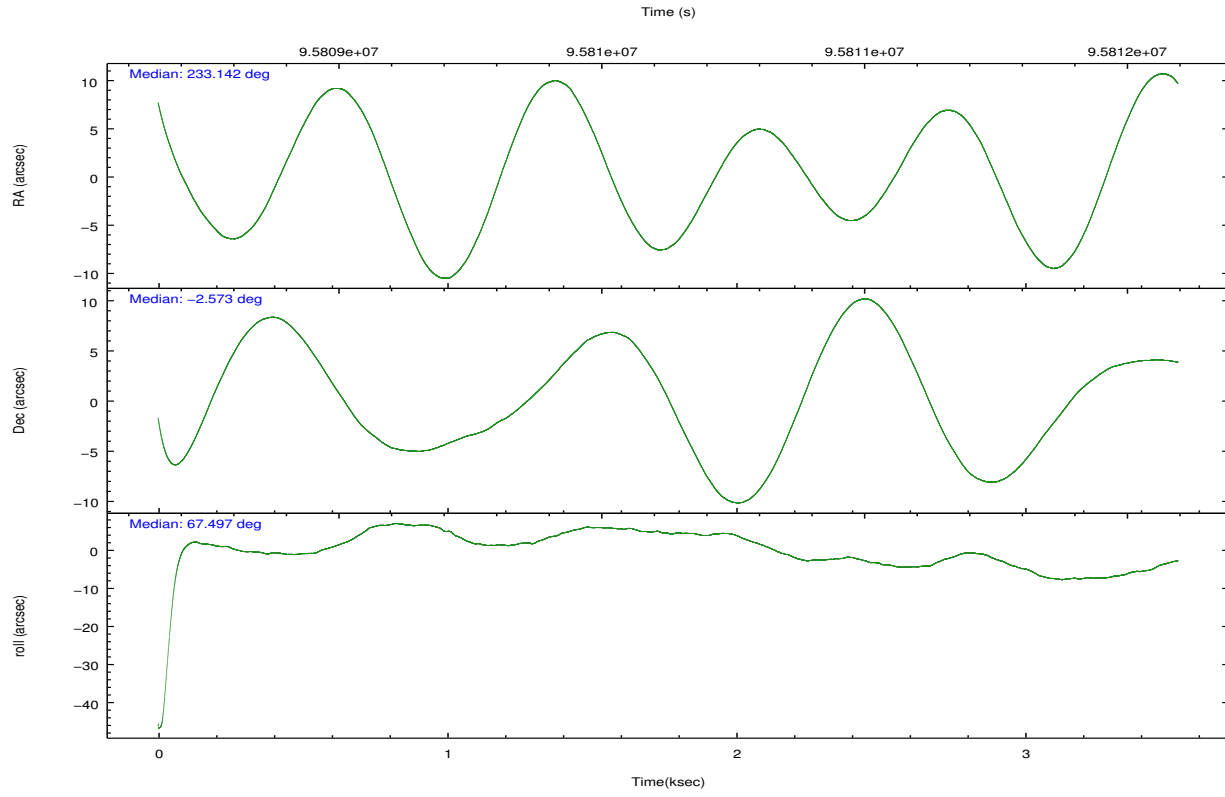
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-235678	ACIS-235678
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	233.145623	233.1418457349439
[deg] Pointing Dec	-2.600095	-2.572951745925864
[deg] Pointing Roll	67.341280	67.49752238741701
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1425803651734
[mm] SIM translation stage offset	0	0.01005778216563158
[s] Observation start time (MET)	95808615.184000	95807633.793965
Observation start date	2001-01-13T21:29:11	2001-01-13T21:13:53
[s] Observation end time (MET)	95812015.184000	95812634.256657
Observation end date	2001-01-13T22:25:51	2001-01-13T22:37:14
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



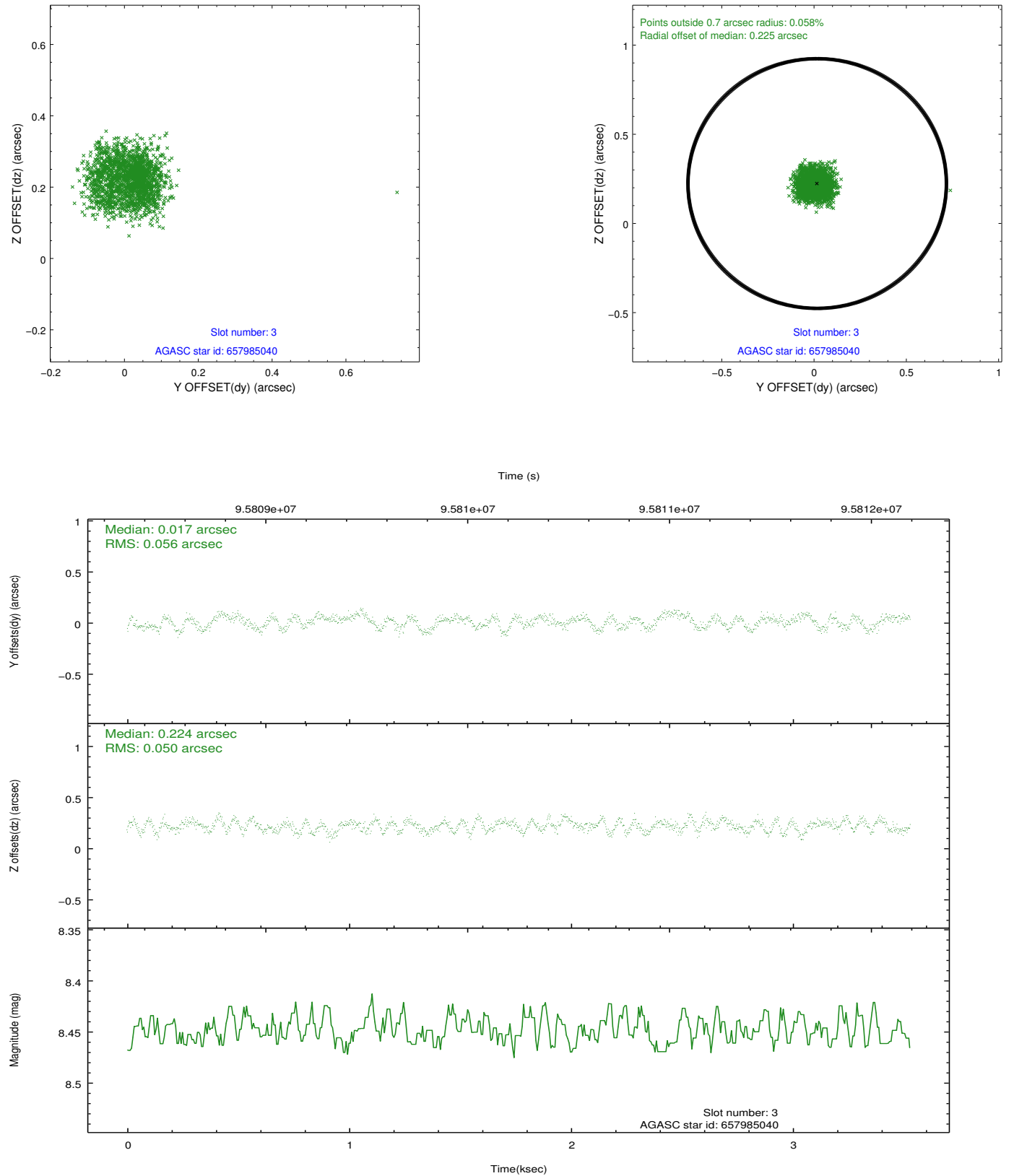


### Slot Statistics

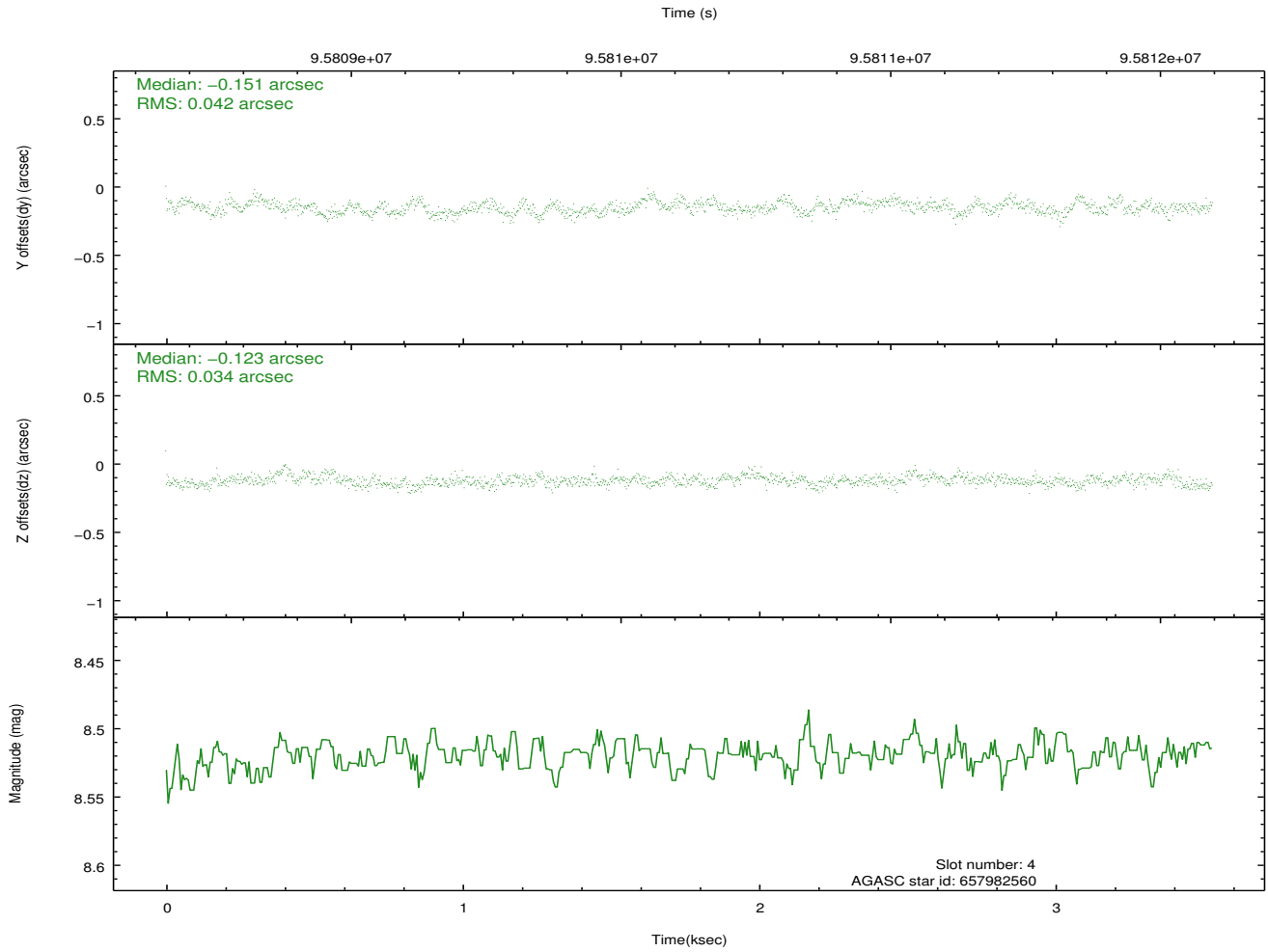
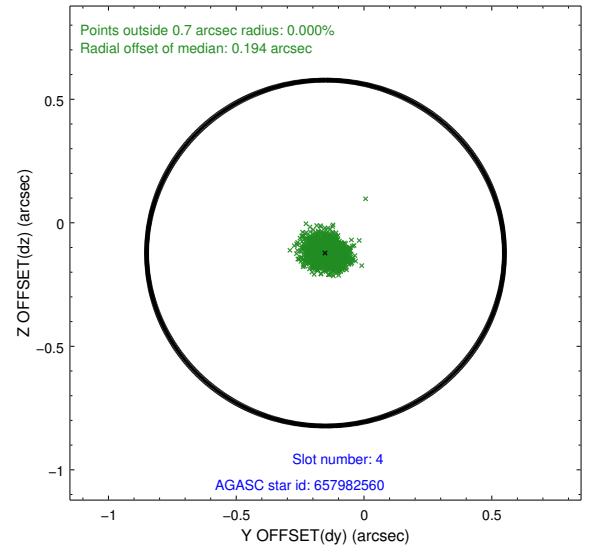
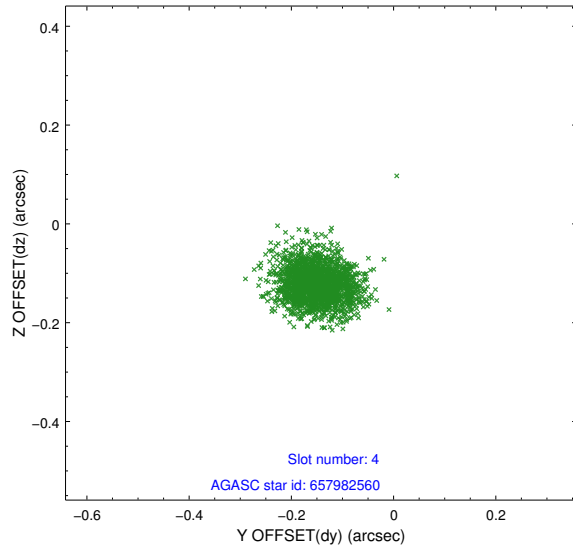
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	861	-0.010	0.003	0.007	0.011	0.000000	0.000000	-755.22	-1728.26
1	FID	ACIS-S-4	7.20	860	-0.031	0.004	0.006	0.010	0.000000	0.000000	2157.24	178.36
2	FID	ACIS-S-5	7.24	860	0.010	0.002	0.007	0.012	0.000000	0.000000	-1805.72	174.09
3	GUIDE	657985040	8.45	1721	0.017	0.224	0.080	0.120	233.629977	-2.941705	-463.82	-2081.26
4	GUIDE	657982560	8.52	1722	-0.151	-0.123	0.057	0.093	232.953842	-2.066441	1507.06	1374.99
5	GUIDE	657982888	8.64	1721	-0.226	0.180	0.054	0.090	233.405373	-2.294778	1375.34	-438.44
6	GUIDE	657984056	9.58	1719	0.144	-0.026	0.088	0.143	232.878549	-2.721271	-771.19	717.27
7	GUIDE	656277584	9.97	1721	0.224	-0.253	0.131	0.215	232.453530	-2.825604	-1708.29	1983.01

## 2.4 Star Slots

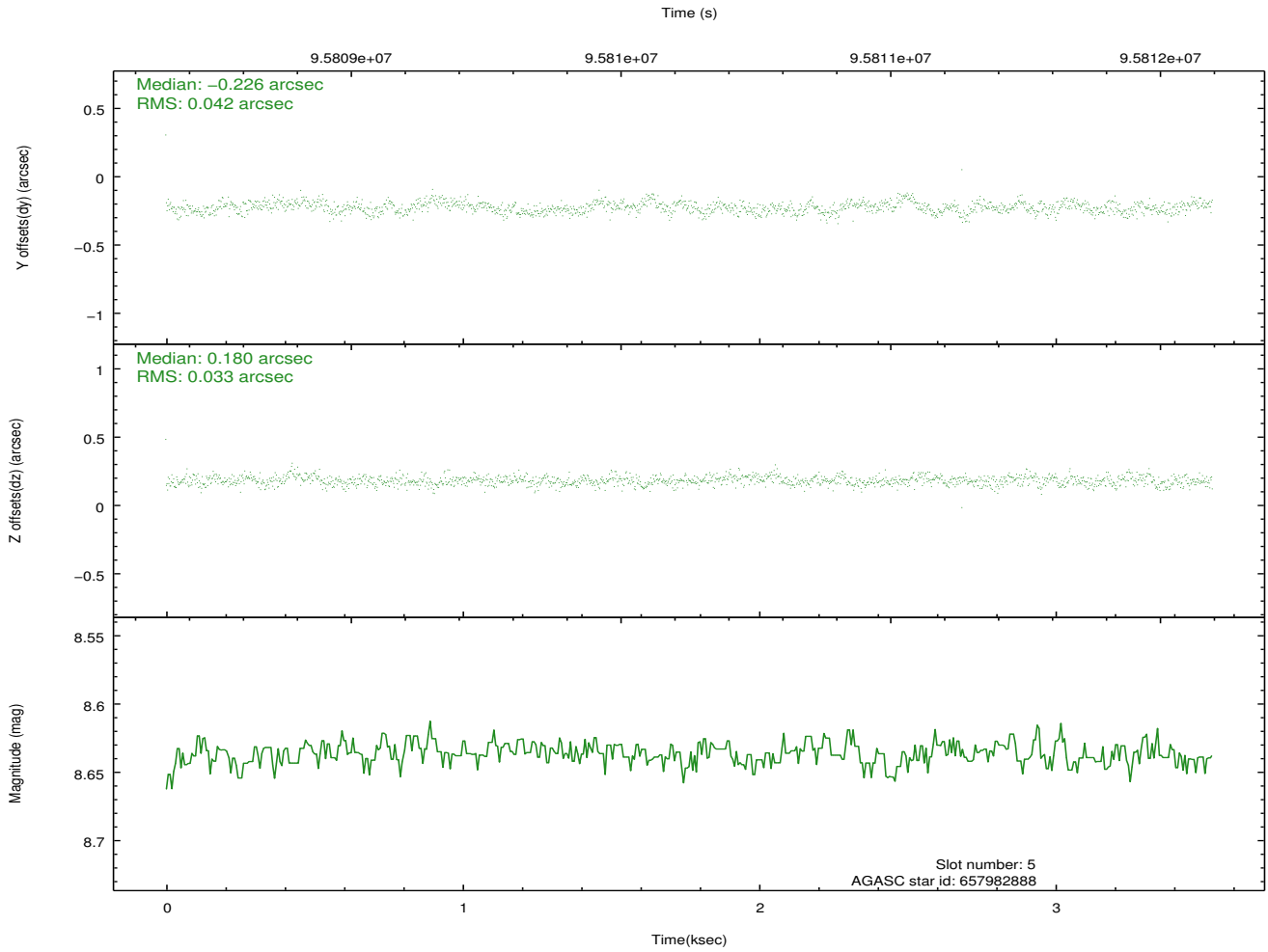
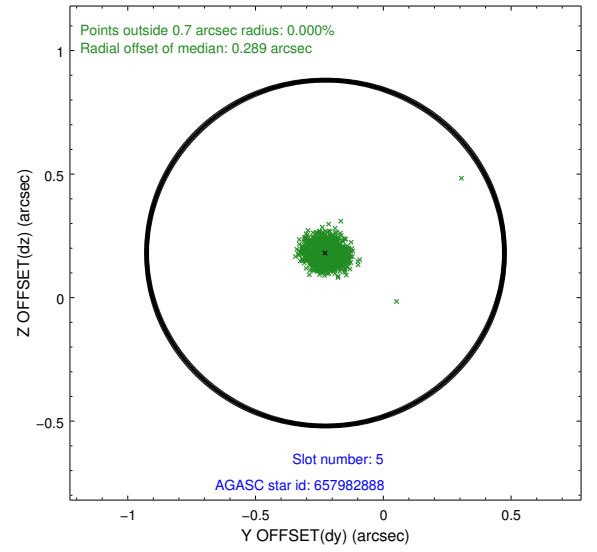
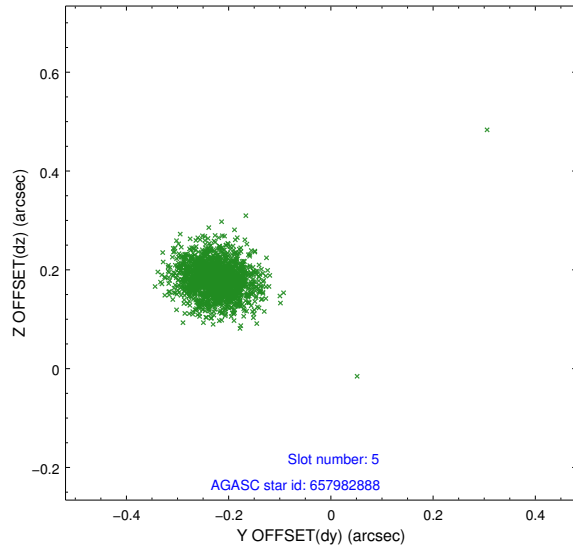
### 2.4.1 Slot 3



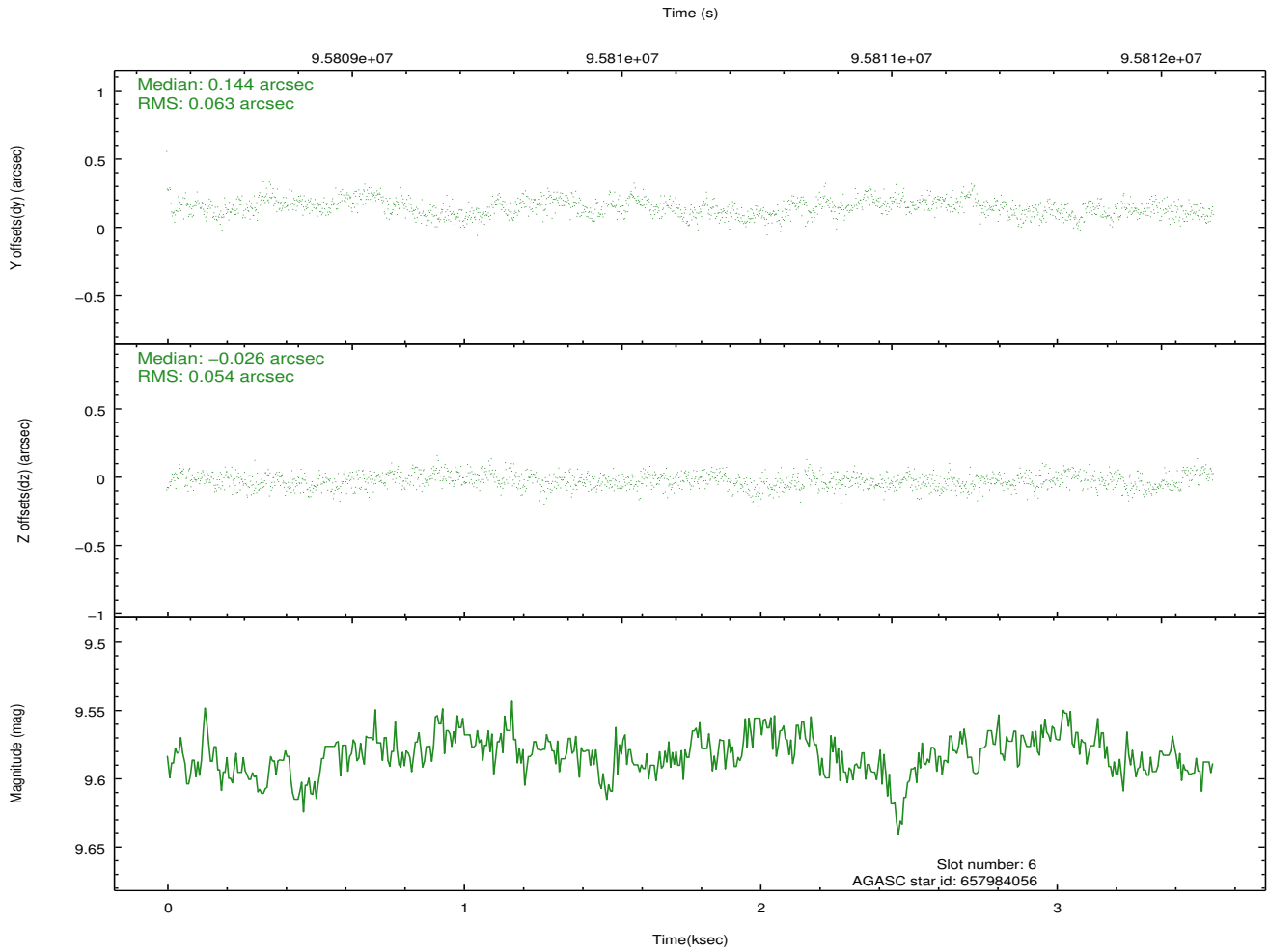
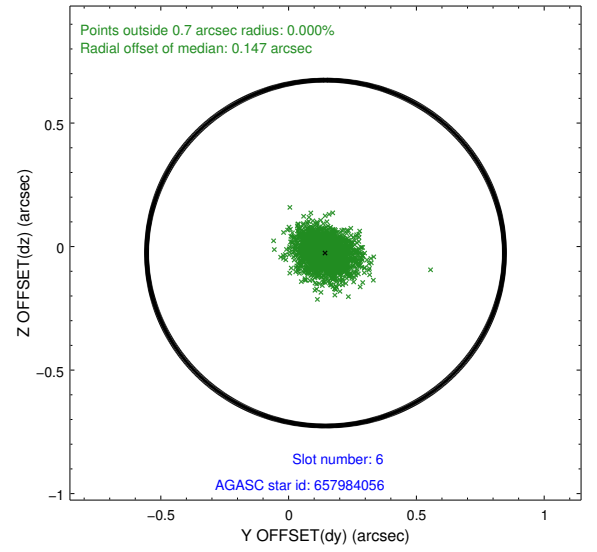
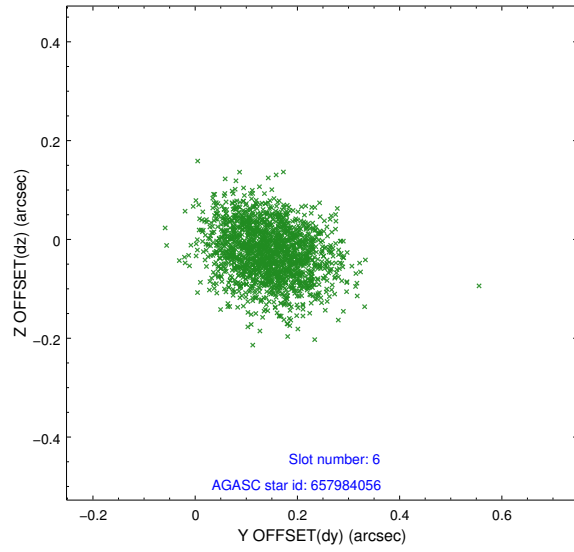
## 2.4.2 Slot 4



### 2.4.3 Slot 5

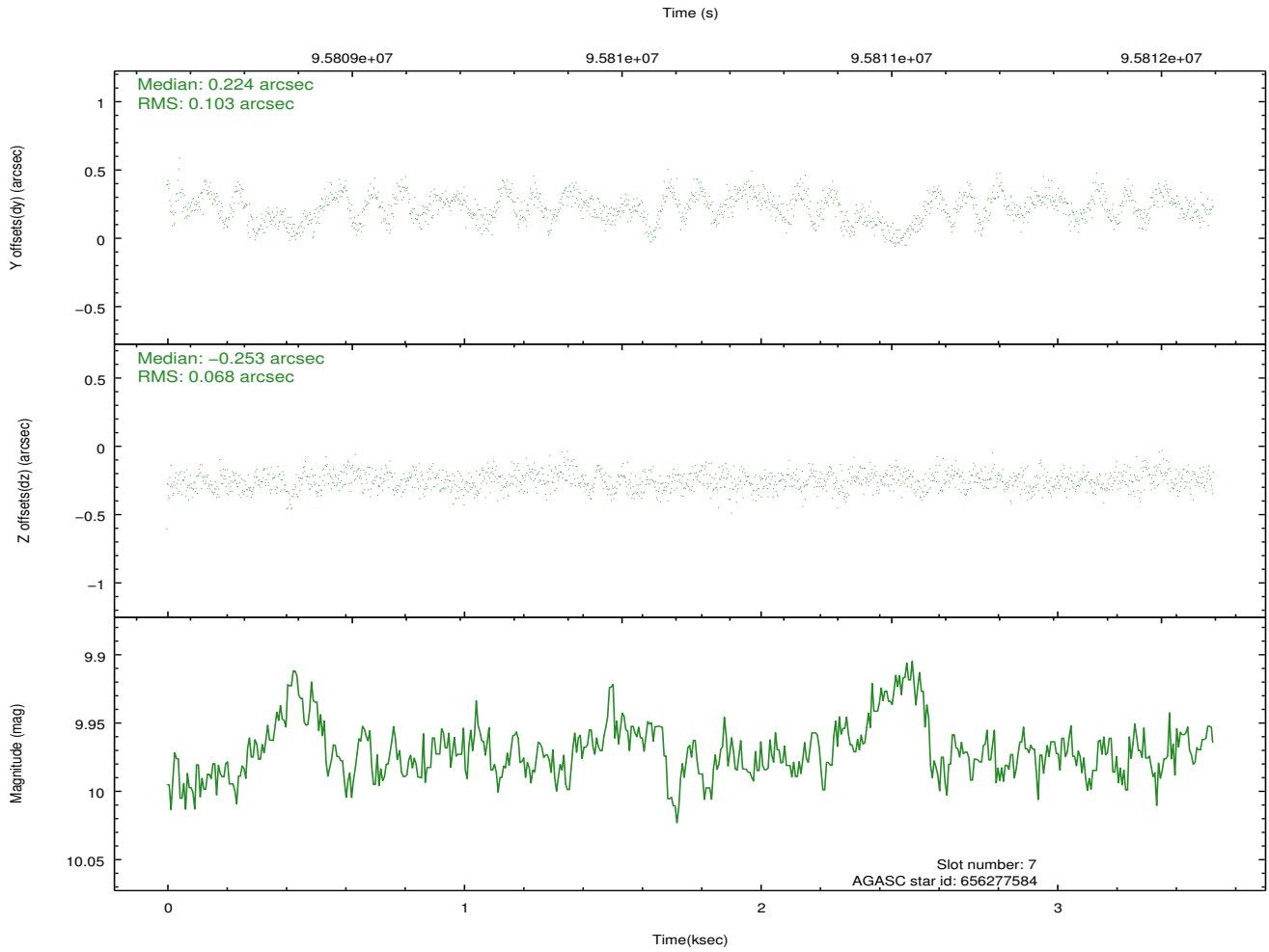
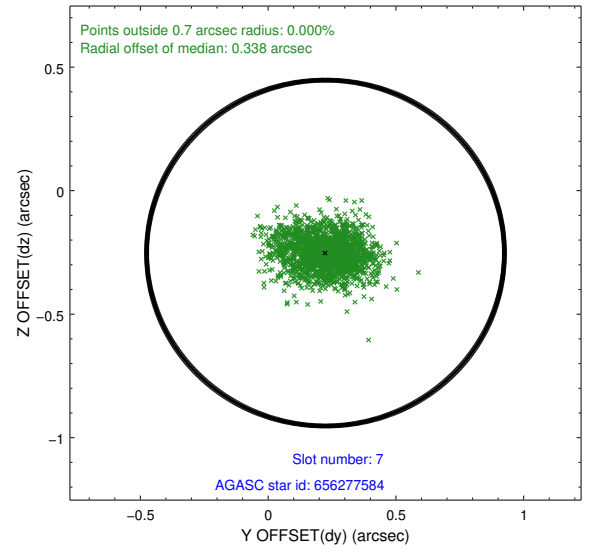
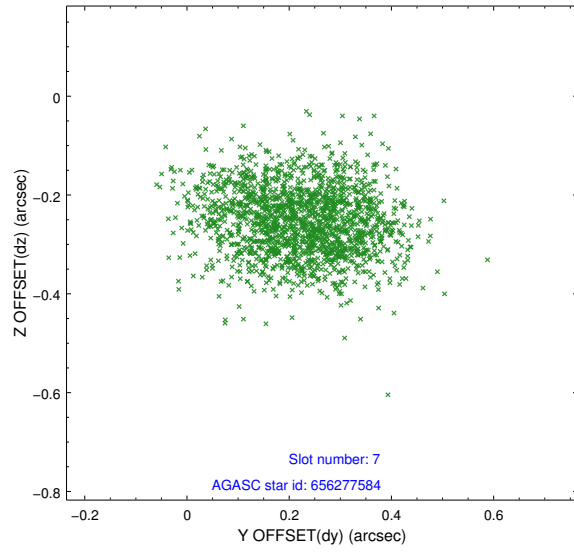


## 2.4.4 Slot 6



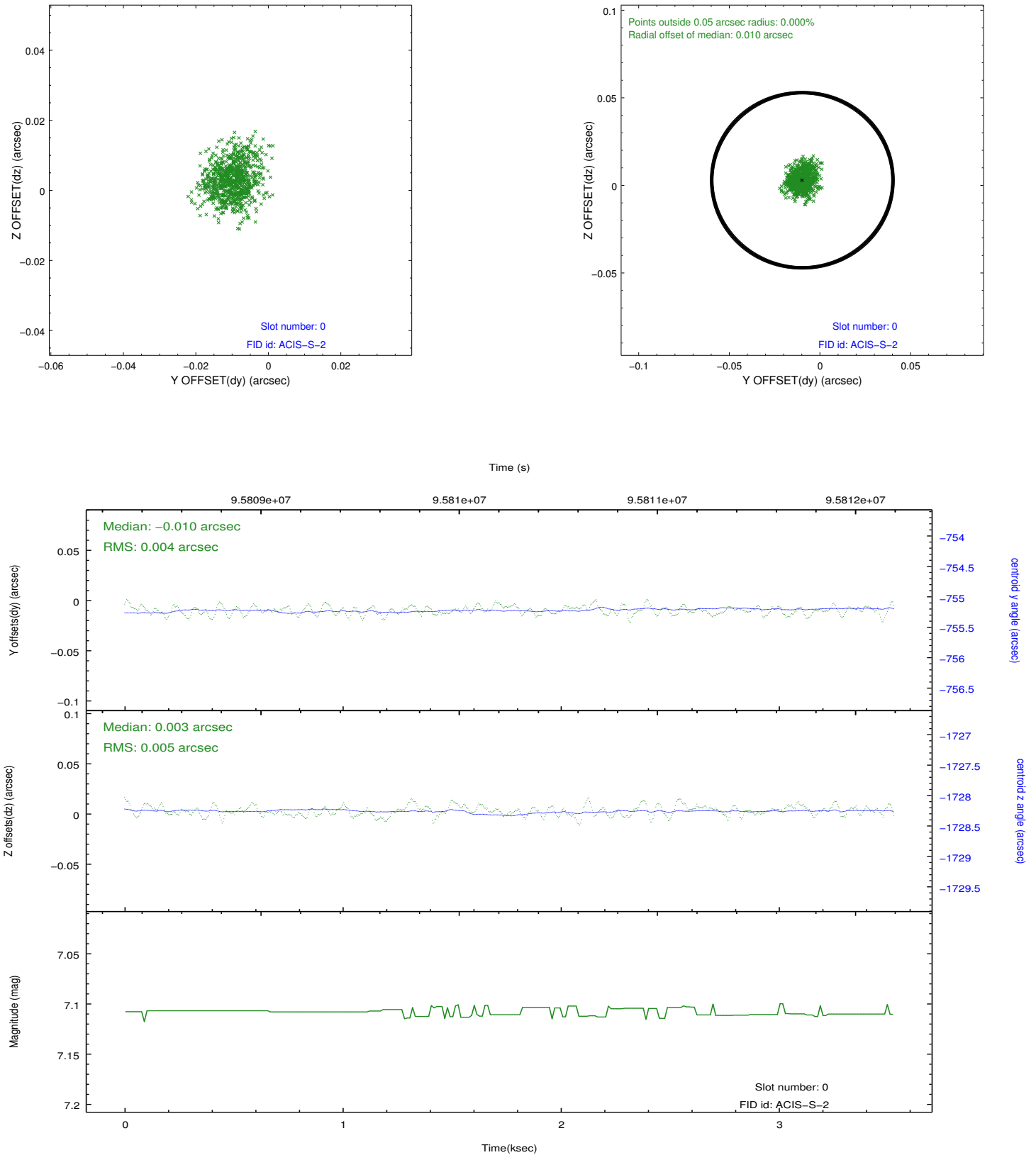


## 2.4.5 Slot 7

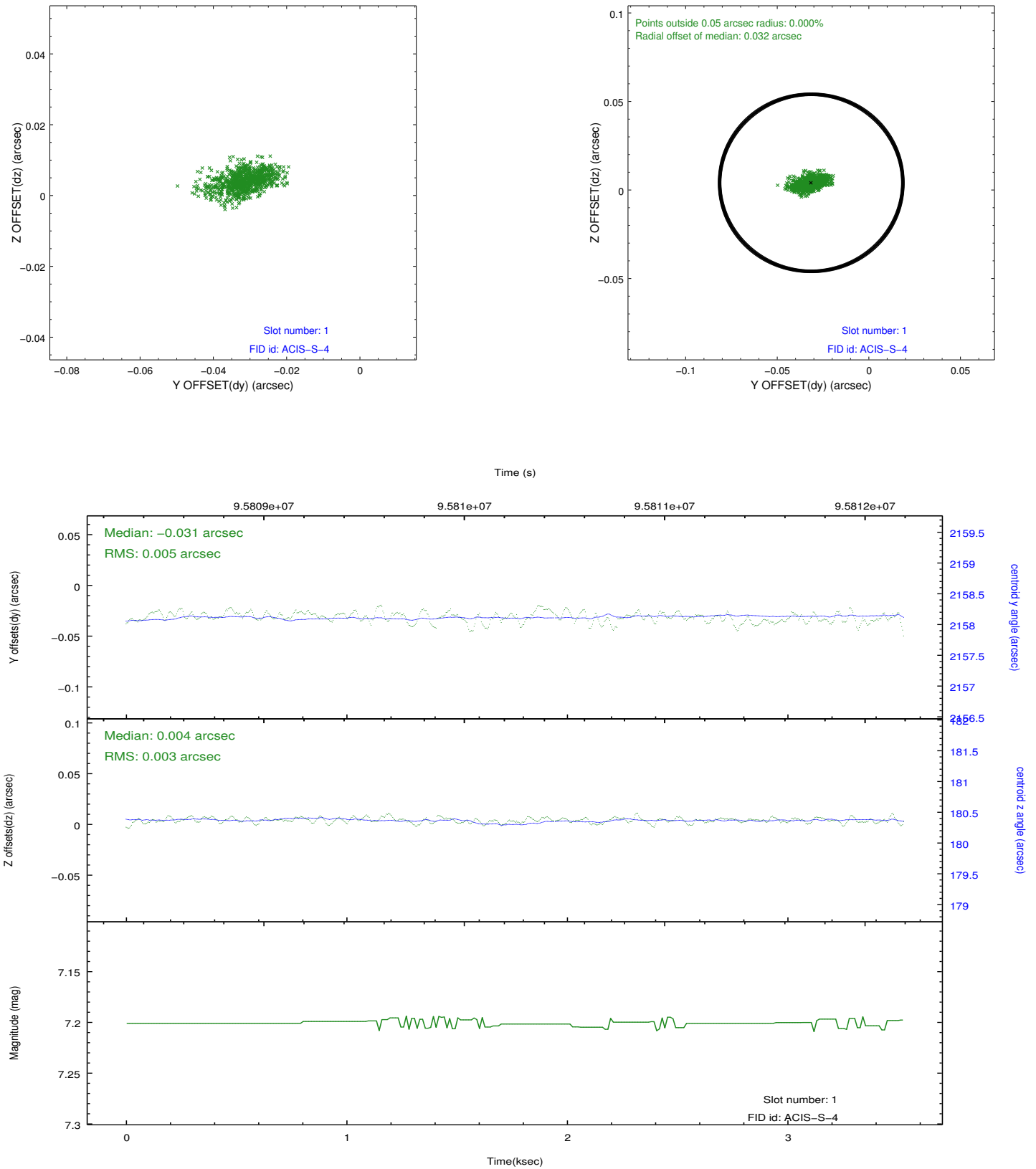


## 2.5 FID Slots

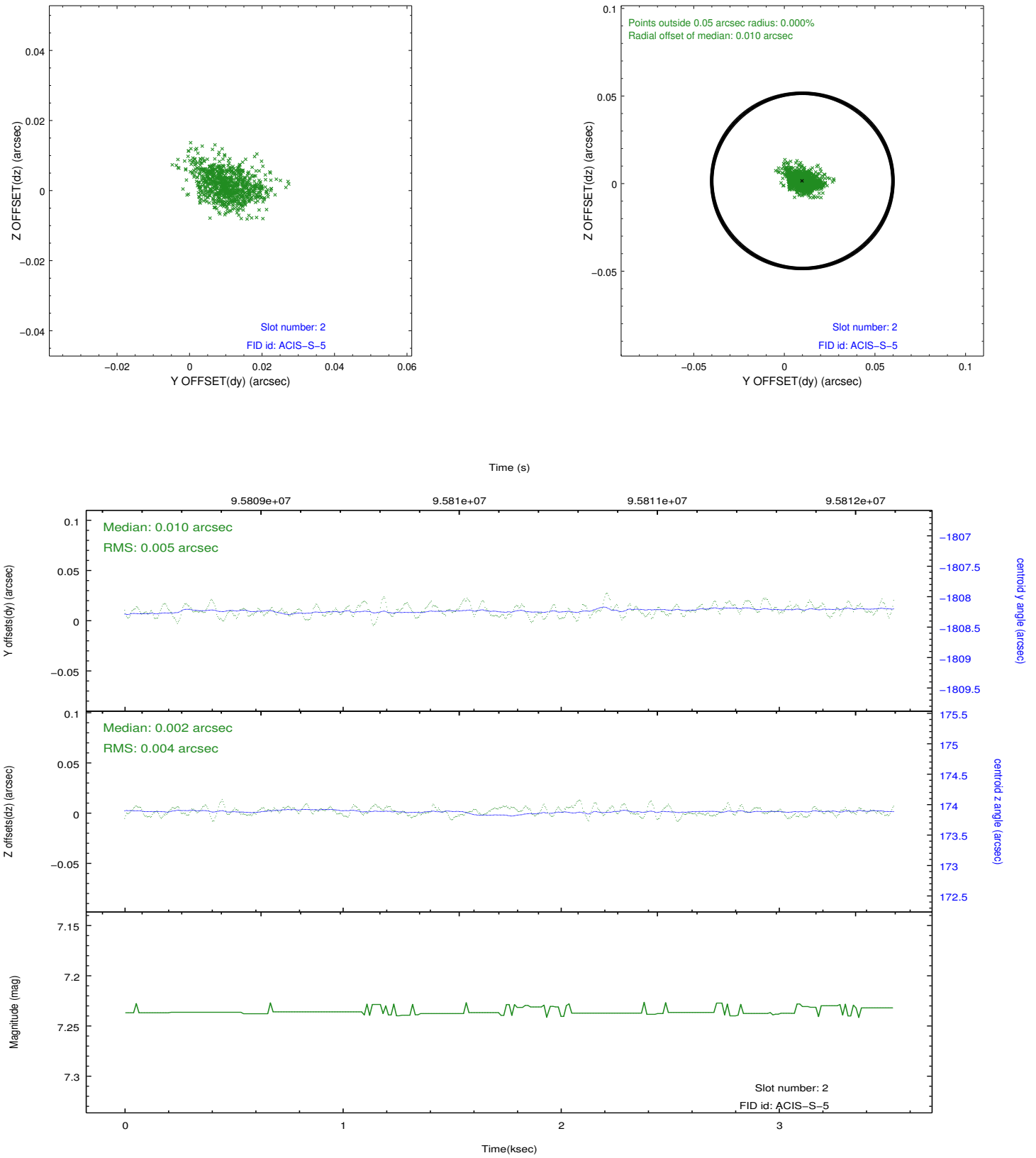
### 2.5.1 Slot 0



## 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)	2012.09.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.296

## A.2 Comments

Charge time for this ObsId remains at previous value of 3.296 ks although with the current processing the charge time would have been 3.394 ksec. Monitor constraint met.

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This is a moving target. Users will need to run sso\_freeze or similar software to position the events in the reference frame of the target.