

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 12022 - L2 Version 2  
Chandra X-Ray Center

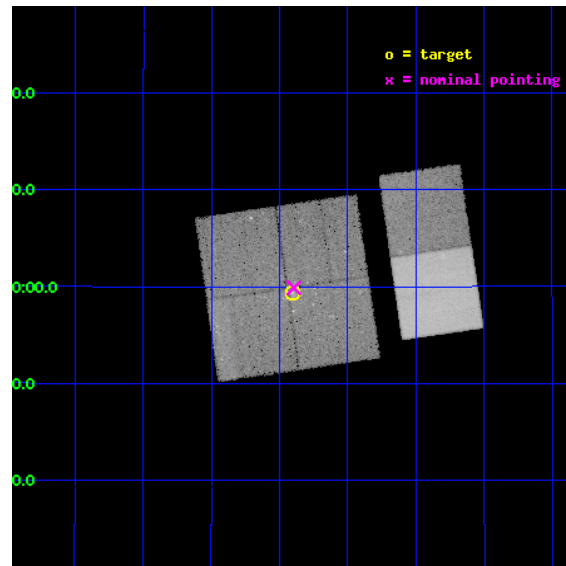
L2 Processing Date : Jun 17 2012

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# 1 Front

seq_num	200615	Sequence number
obs_id	12022	Observation id
title	Revealing the ``missing' low-mass stars in the S255/S257 star forming region	Proposal title
observer	Prof. Dr. Thomas Preibisch	Principal investigator
object	S255/S257	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	93.225	Observer's specified target RA [deg]
dec_targ	17.99	Observer's specified target Dec [deg]
ra_nom	93.223665783035	Nominal RA [deg]
dec_nom	17.99799862786	Nominal Dec [deg]
roll_nom	81.709107589433	Nominal Roll [deg]
revision	2	Processing version of data
ontime	34155.678869188	Sum of GTIs [s]
livetime	33723.179097265	Livetime [s]
ontime0	34155.555749178	Sum of GTIs [s]
ontime1	34155.596789181	Sum of GTIs [s]
ontime2	34155.637829185	Sum of GTIs [s]
ontime3	34155.678869188	Sum of GTIs [s]
ontime6	34155.760949194	Sum of GTIs [s]
ontime7	34155.719909191	Sum of GTIs [s]
l2events	284840	Number of level 2 events

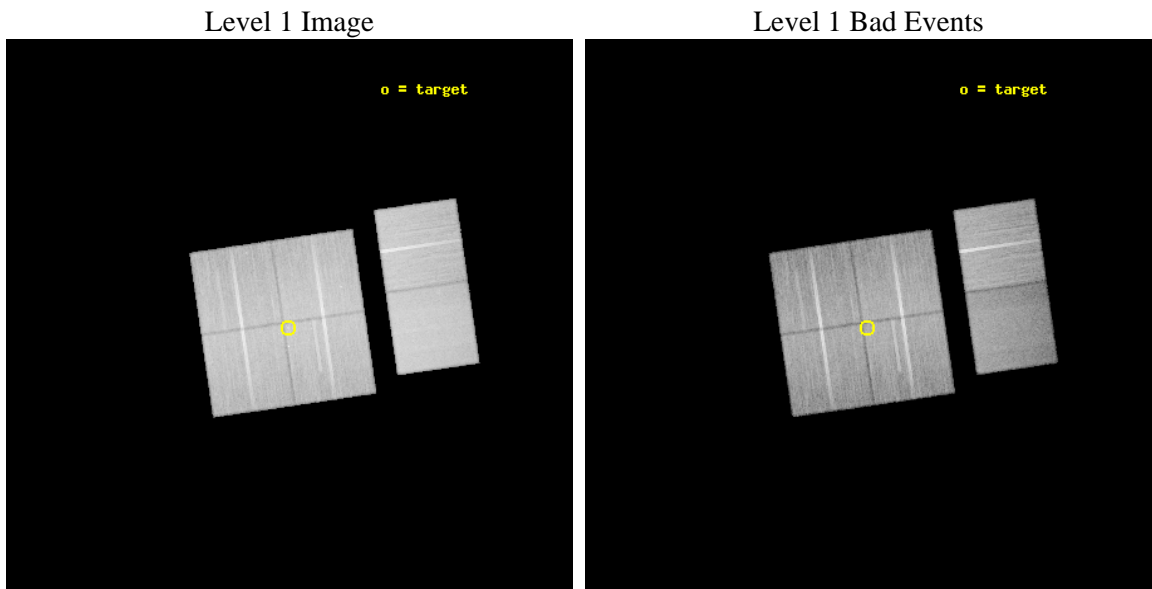




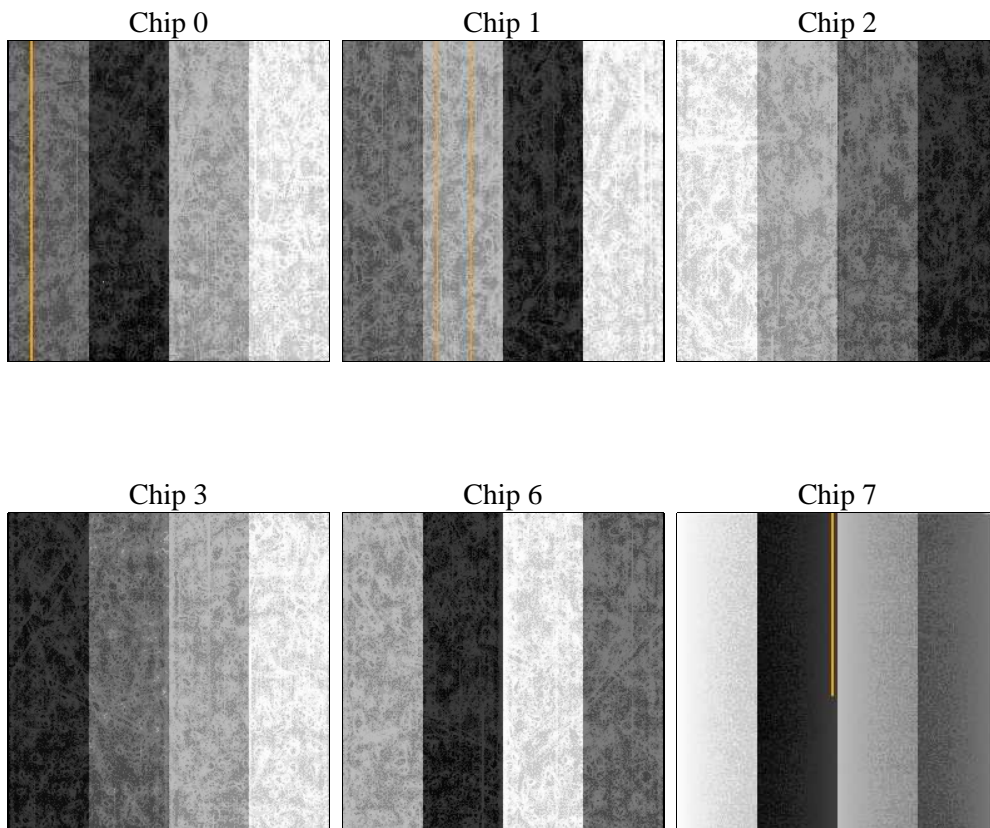
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	34113.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	34155.678869188	Sum of GTIs [s]
caldbver	4.4.10	&#160	ontime0	34155.555749178	Sum of GTIs [s]
date	2012-06-17T06:01:57	Date and time of file creation	ontime1	34155.596789181	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	34155.637829185	Sum of GTIs [s]
			ontime3	34155.678869188	Sum of GTIs [s]
			ontime6	34155.760949194	Sum of GTIs [s]
			ontime7	34155.719909191	Sum of GTIs [s]
			l1events	1810169	Number of level 1 events

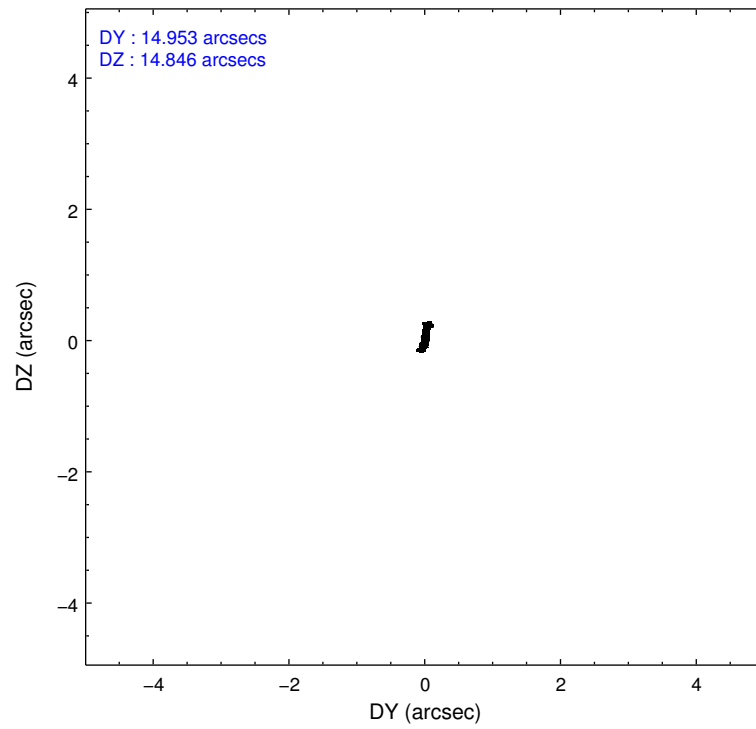
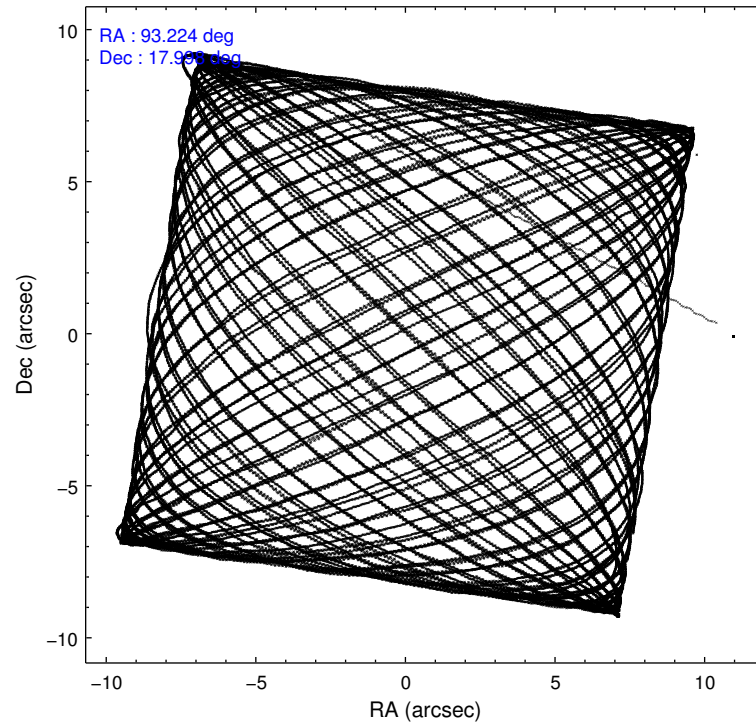
### 2.1.4 Events

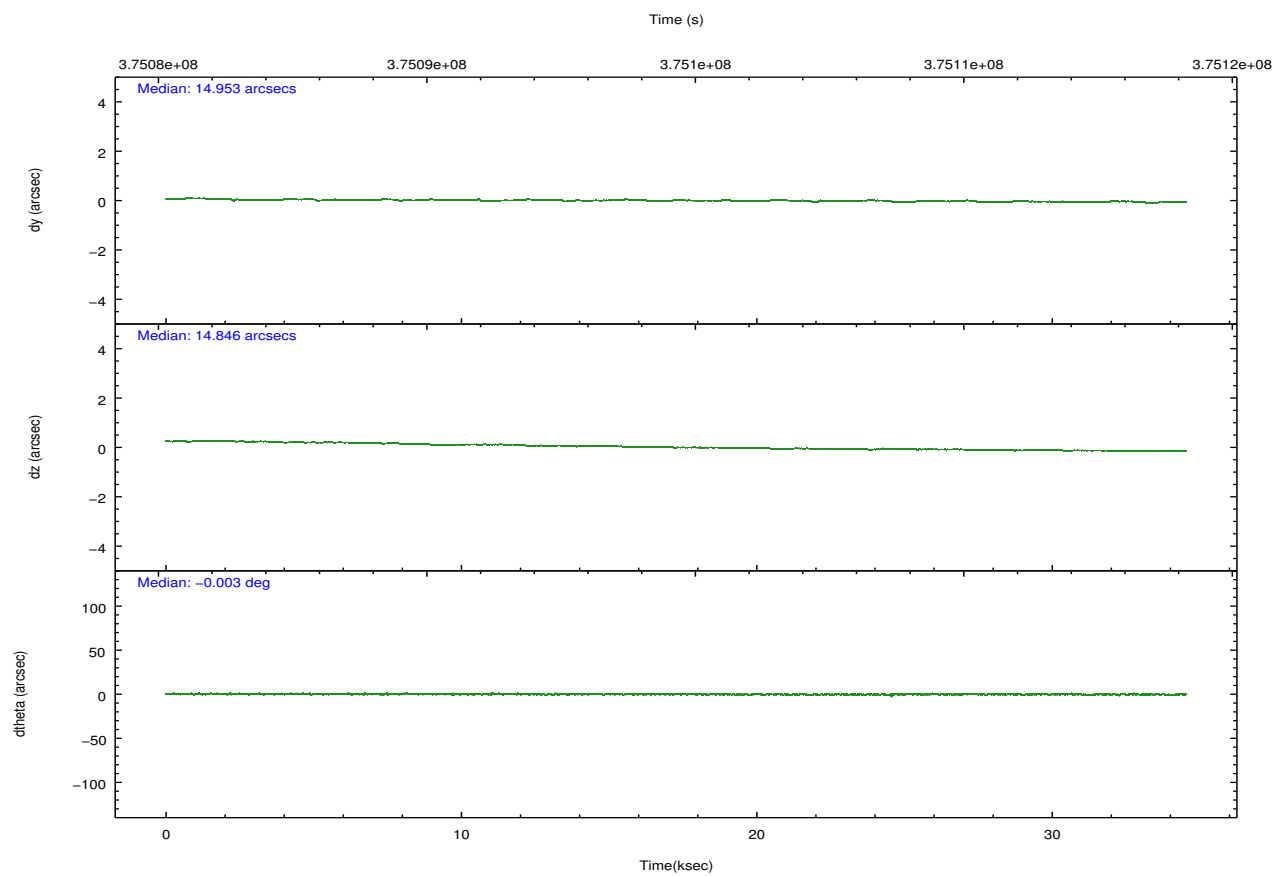
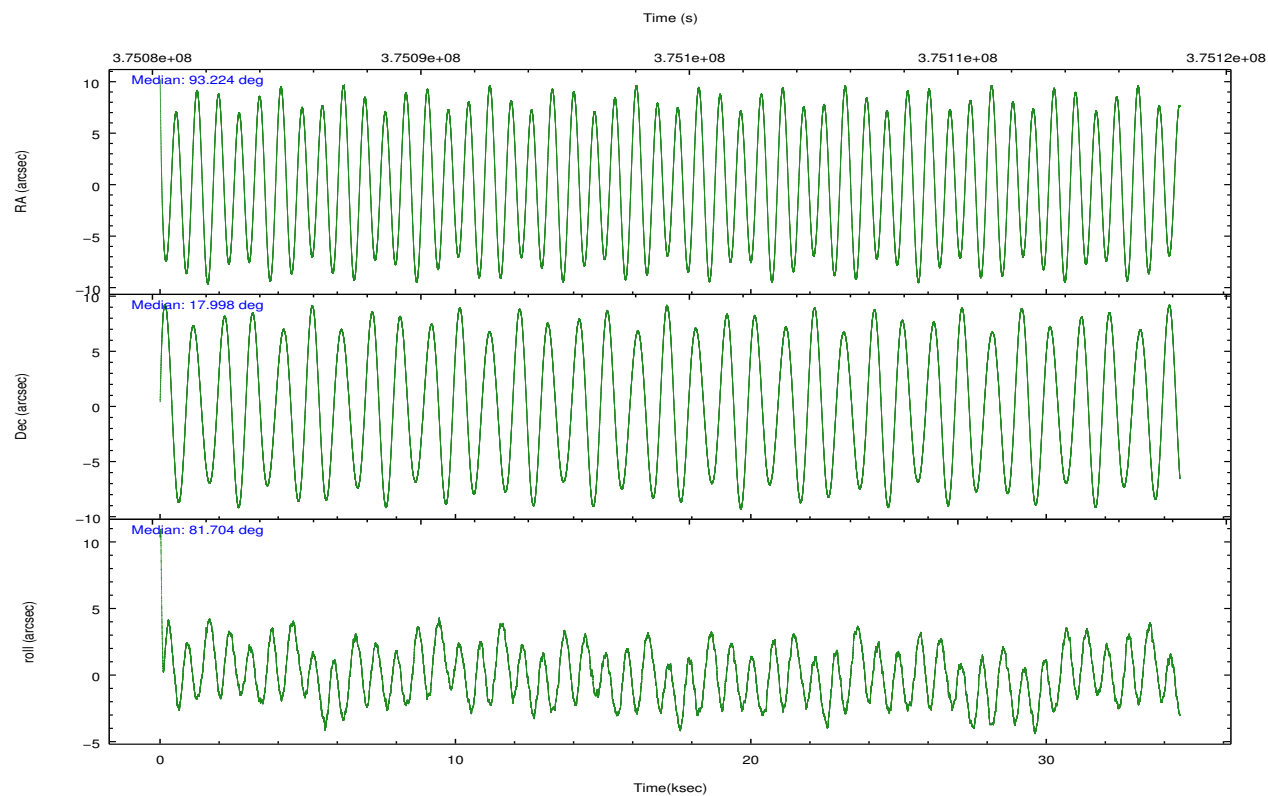
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	272361	277946	306069	295377	313851	344565	grade 0 events	10750	13344	11089	12010	10681	14271
rejected events	241760	242704	275885	264052	282462	188366		3%	4%	3%	4%	3%	4%
rejected %	88%	87%	90%	89%	89%	54%	grade 1 events	167	168	187	179	164	469
								0%	0%	0%	0%	0%	0%
							grade 2 events	7257	7899	7210	6643	7137	32244
								2%	2%	2%	2%	2%	9%
							grade 3 events	3452	3532	3285	3271	3354	14013
								1%	1%	1%	1%	1%	4%
							grade 4 events	3155	3531	3035	3275	3225	13758
								1%	1%	0%	1%	1%	3%
							grade 5 events	10796	11945	10227	12531	12860	35846
								3%	4%	3%	4%	4%	10%
							grade 6 events	5992	6945	5573	6130	6994	81932
								2%	2%	1%	2%	2%	23%
							grade 7 events	230792	230582	265463	251338	269436	152032
								84%	82%	86%	85%	85%	44%

## 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	FAINT	FAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	93.234480	93.22366578303509	CCD I2 on	Y	Y
[deg] Pointing Dec	17.972473	17.99799862785976	CCD I3 on	Y	Y
[deg] Pointing Roll	81.497077	81.70910758943265	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O2	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	375082428.184000	375081255.61695	CCD S5 on	N	N
Observation start date	2009-11-20T05:32:42	2009-11-20T05:14:15	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	375116541.184000	375117500.13128	On-chip summing requested	N	N
Observation end date	2009-11-20T15:01:15	2009-11-20T15:18:20	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



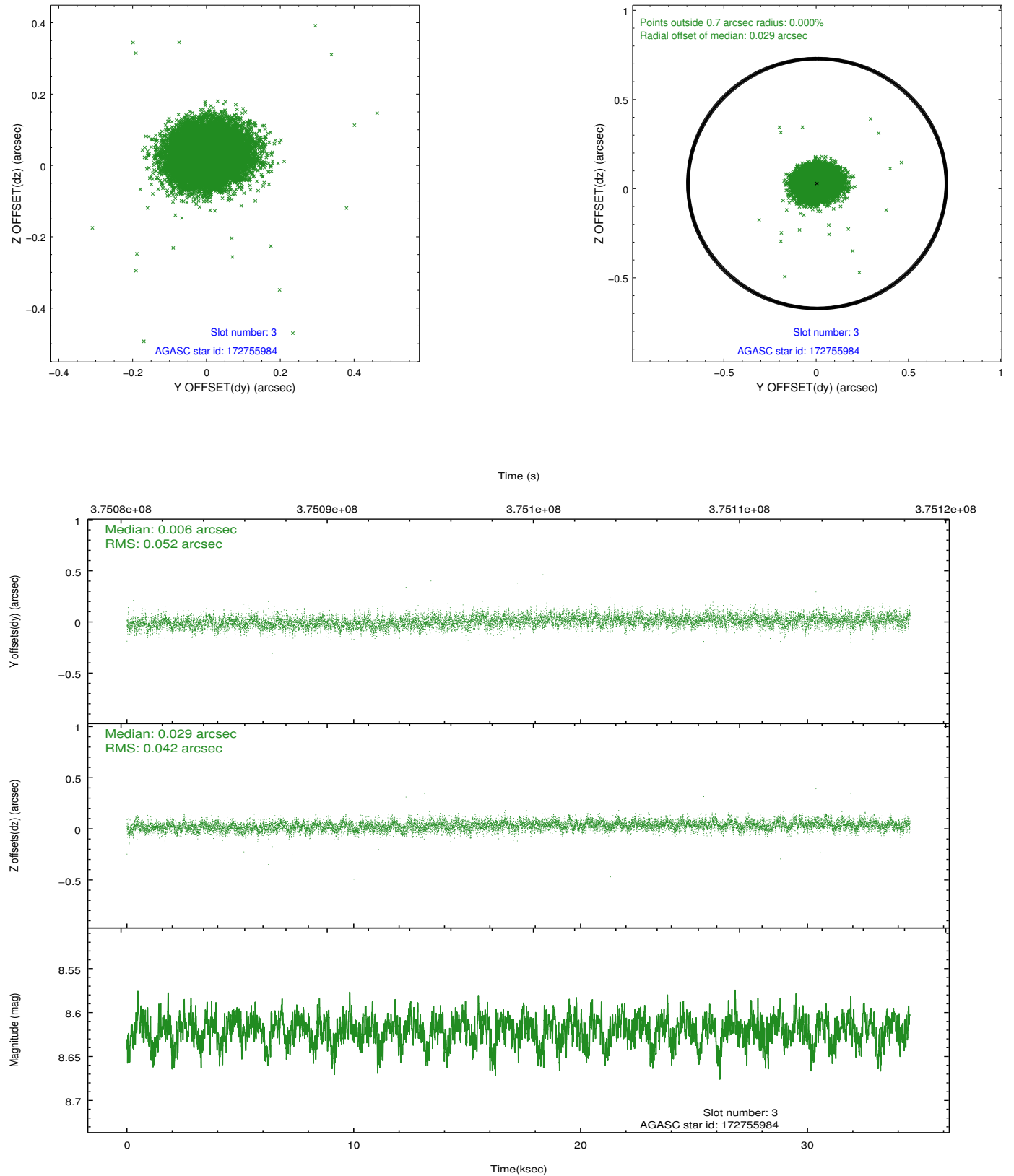


### Slot Statistics

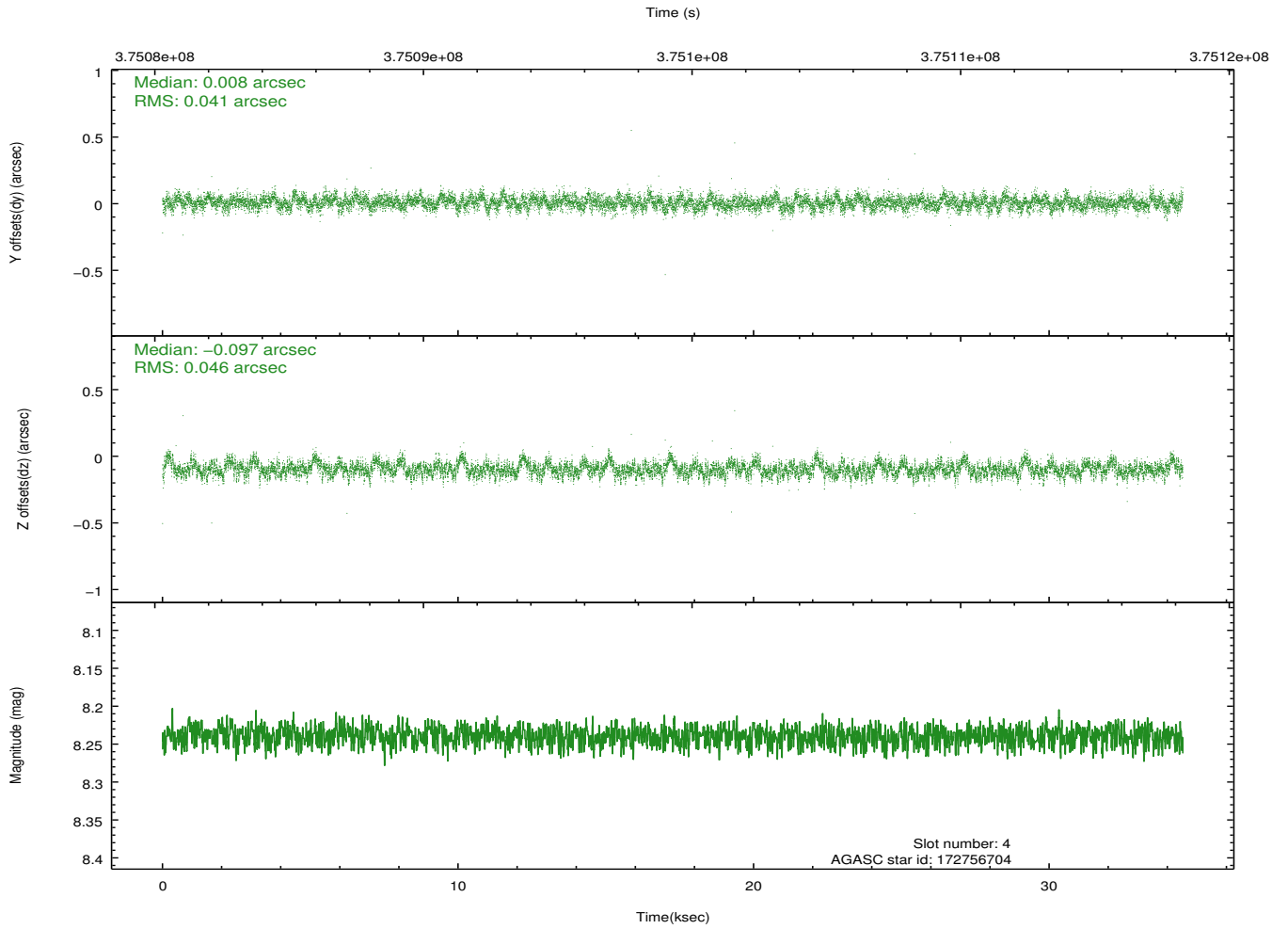
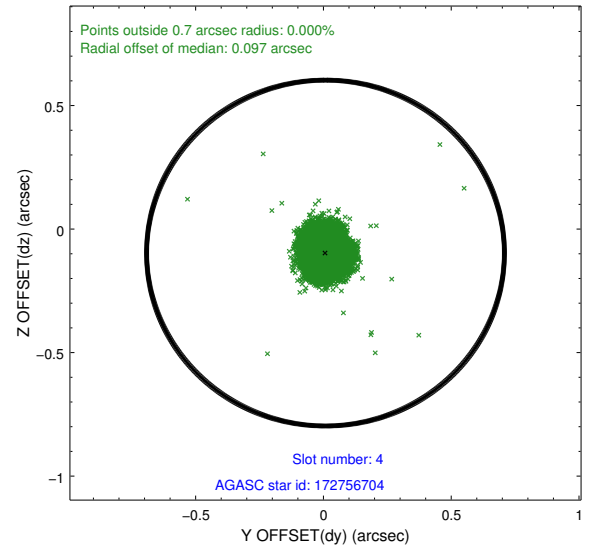
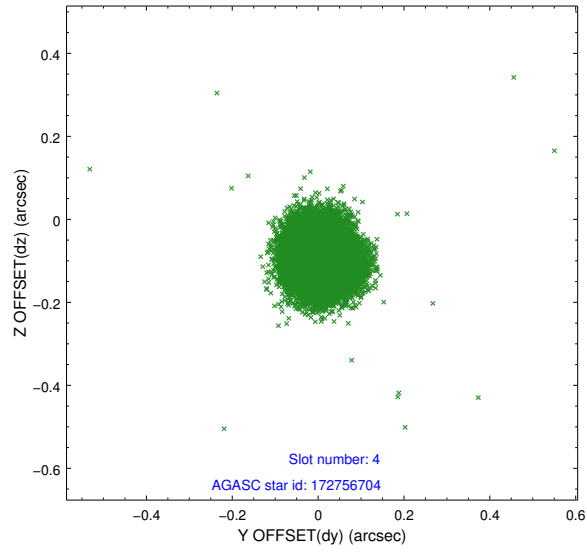
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.05	8420	0.030	0.003	0.007	0.013	0.000000	0.000000	924.55	-838.45
1	FID	ACIS-I-5	7.04	8420	-0.220	0.033	0.007	0.012	0.000000	0.000000	-1823.81	1059.00
2	FID	ACIS-I-6	7.05	8419	0.099	0.034	0.007	0.012	0.000000	0.000000	390.08	1703.59
3	GUIDE	172755984	8.62	16828	0.006	0.029	0.070	0.114	92.677336	18.702783	2322.07	2268.54
4	GUIDE	172756704	8.24	16837	0.008	-0.097	0.065	0.105	93.028352	17.756938	-871.70	584.15
5	GUIDE	172756792	8.49	16831	0.094	0.197	0.063	0.102	93.226946	17.362403	-2175.84	-299.07
6	GUIDE	172759816	9.18	16819	-0.128	0.118	0.083	0.134	93.600394	18.248853	1170.12	-1089.73
7	GUIDE	172761328	8.78	16825	0.020	-0.248	0.085	0.140	92.531429	17.715467	-1267.19	2247.98

## 2.4 Star Slots

### 2.4.1 Slot 3

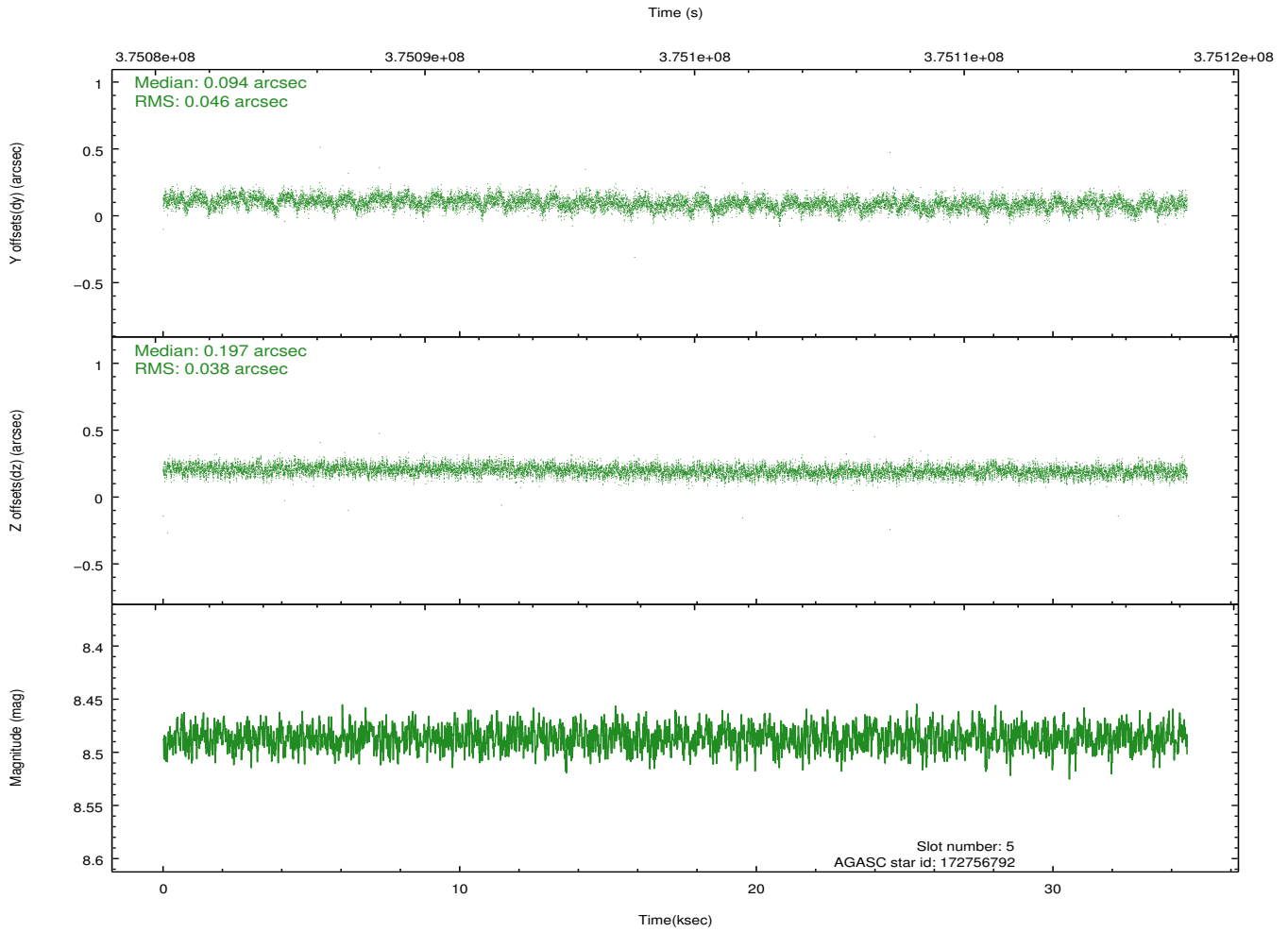
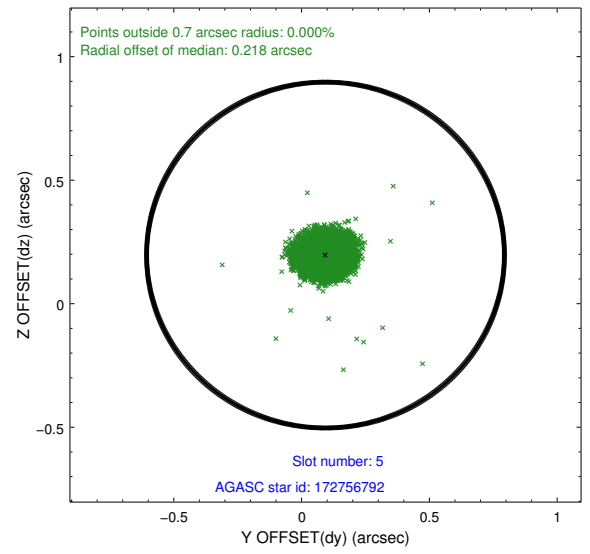
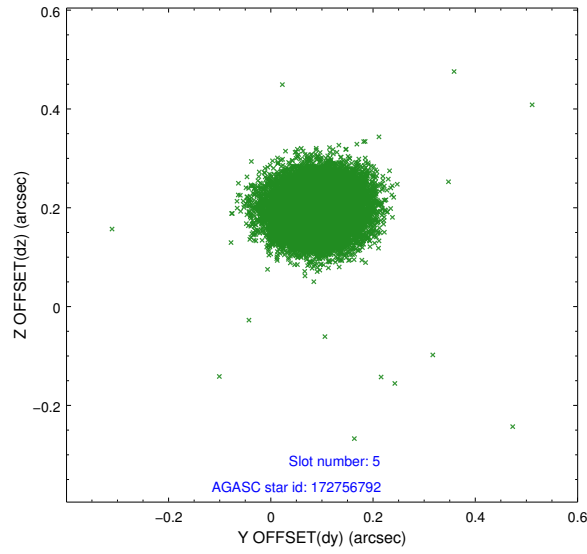


## 2.4.2 Slot 4

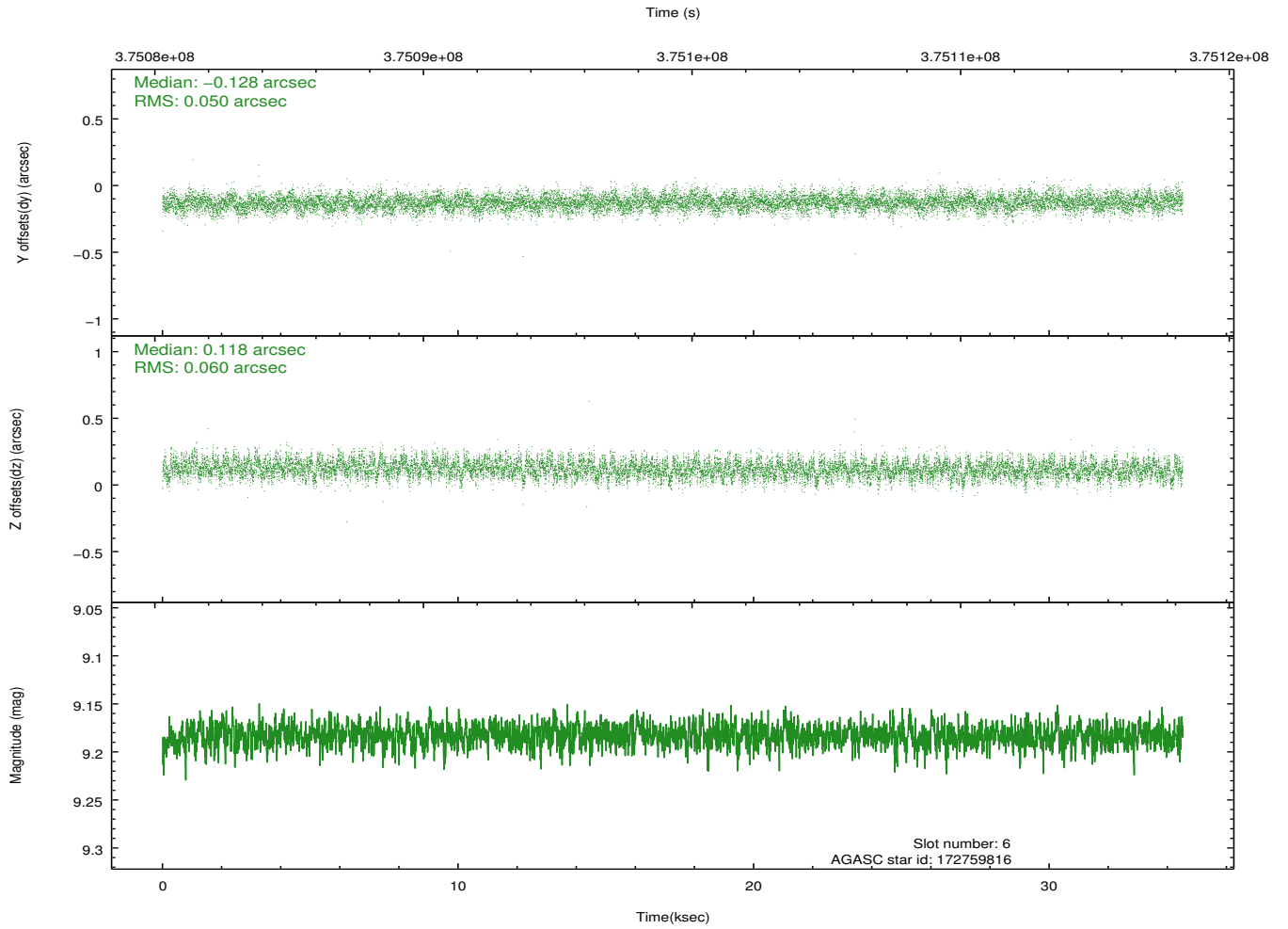
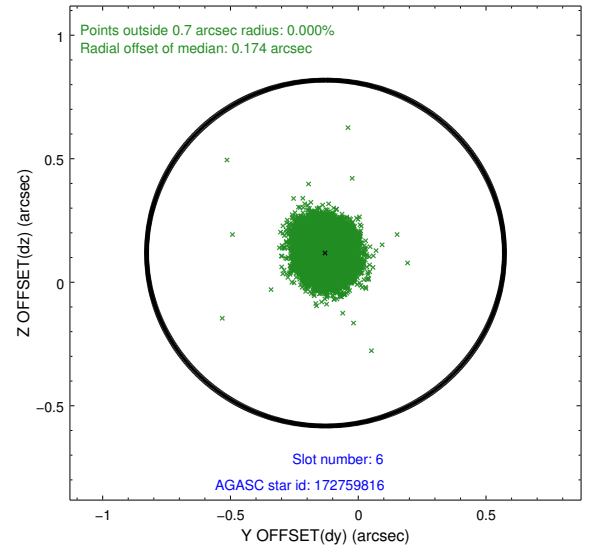
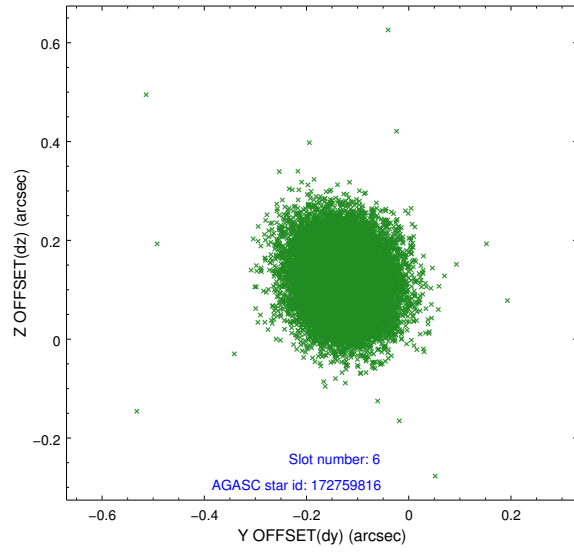




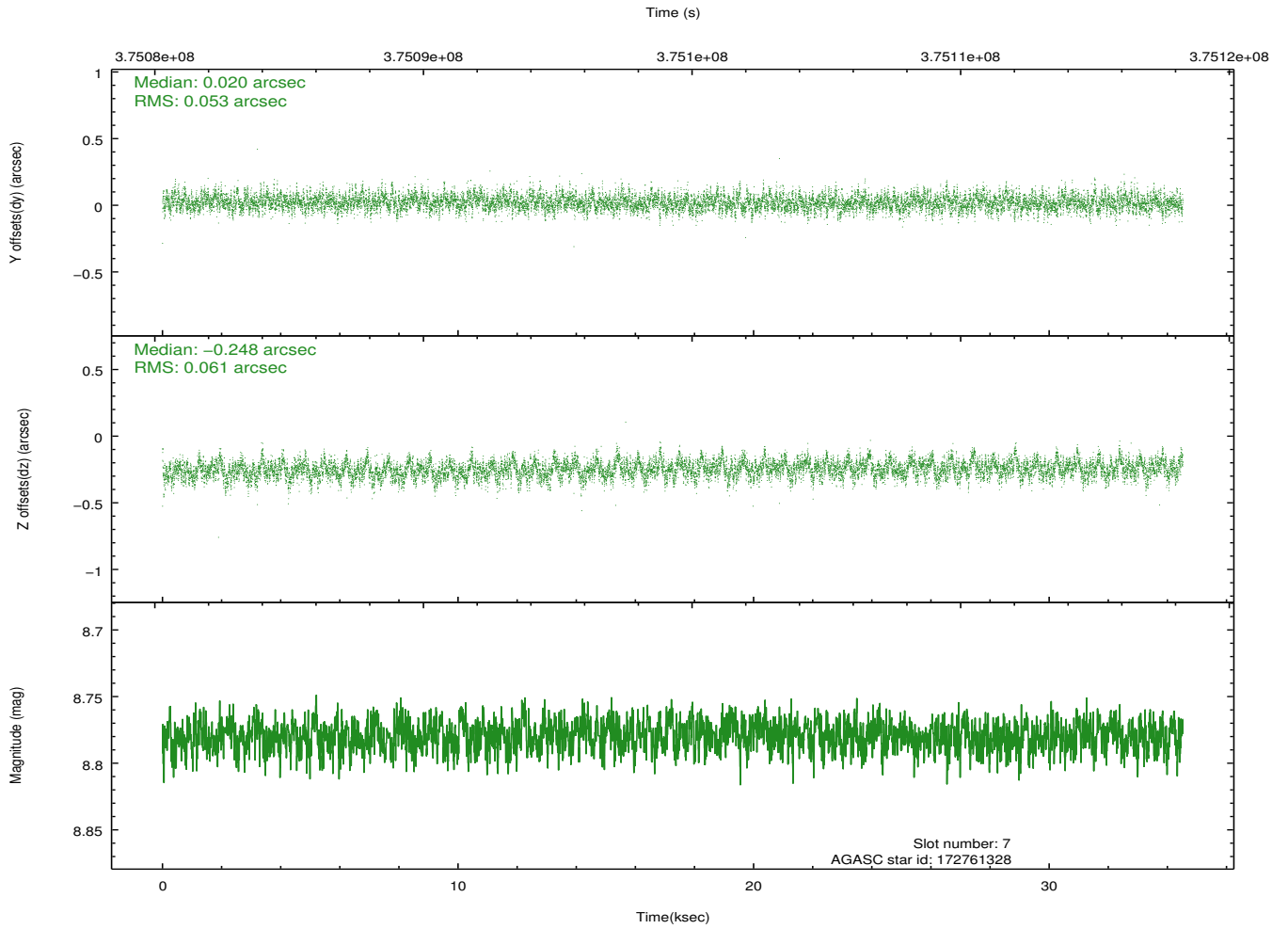
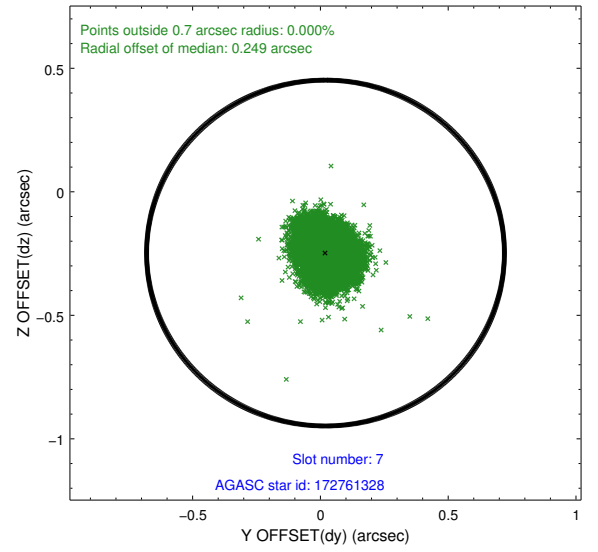
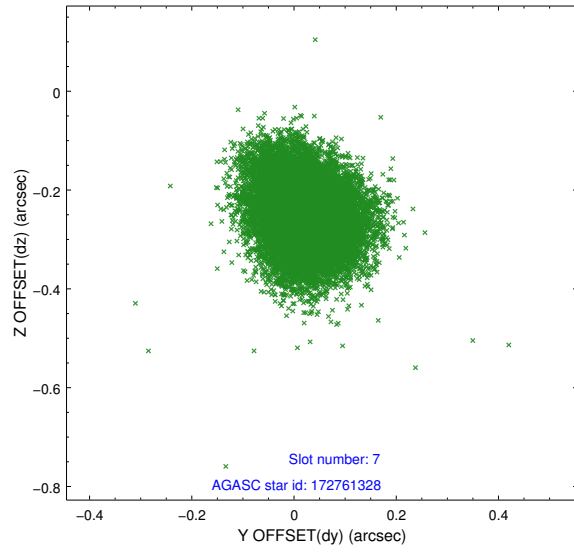
### 2.4.3 Slot 5



## 2.4.4 Slot 6

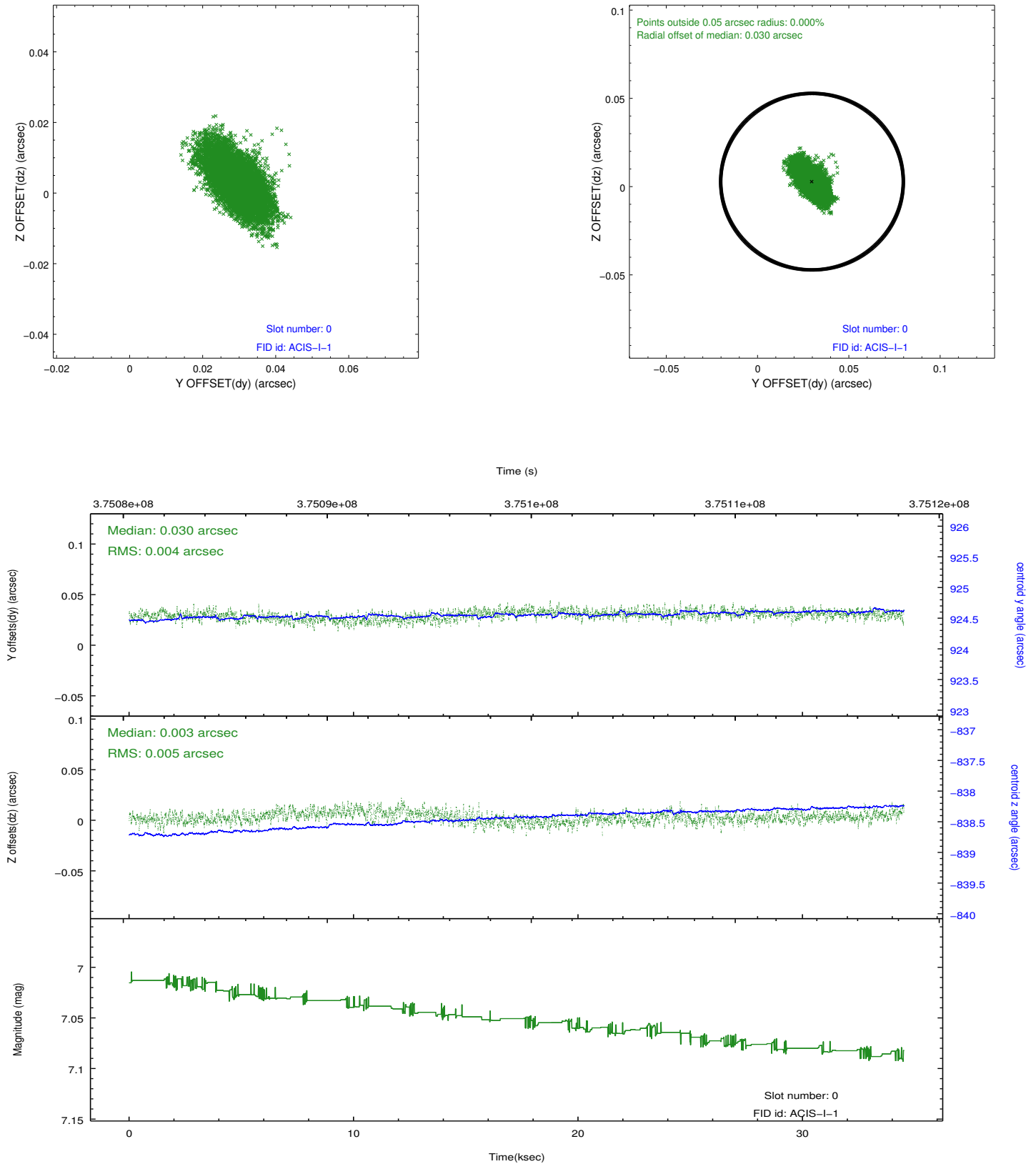


## 2.4.5 Slot 7

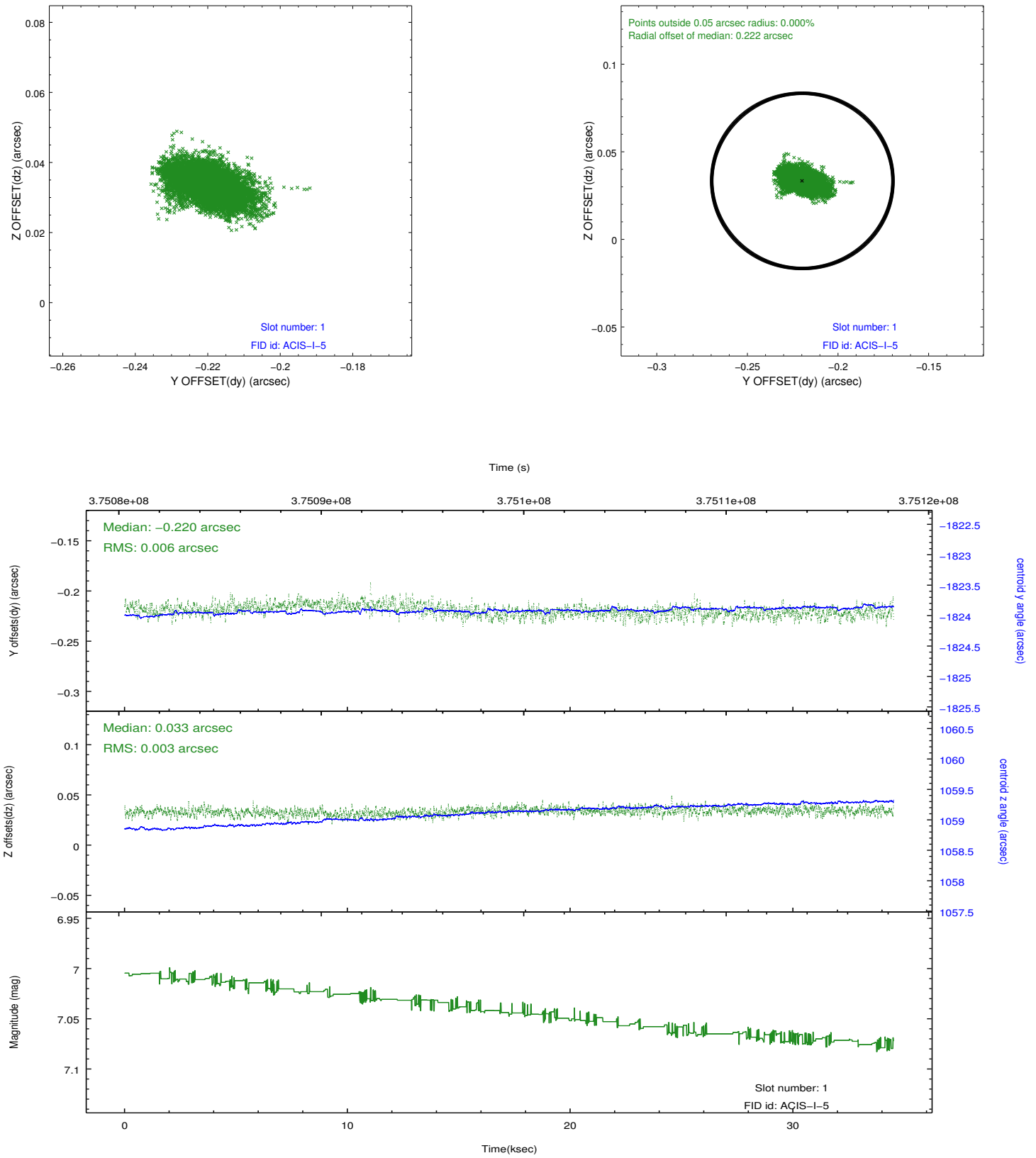


## 2.5 FID Slots

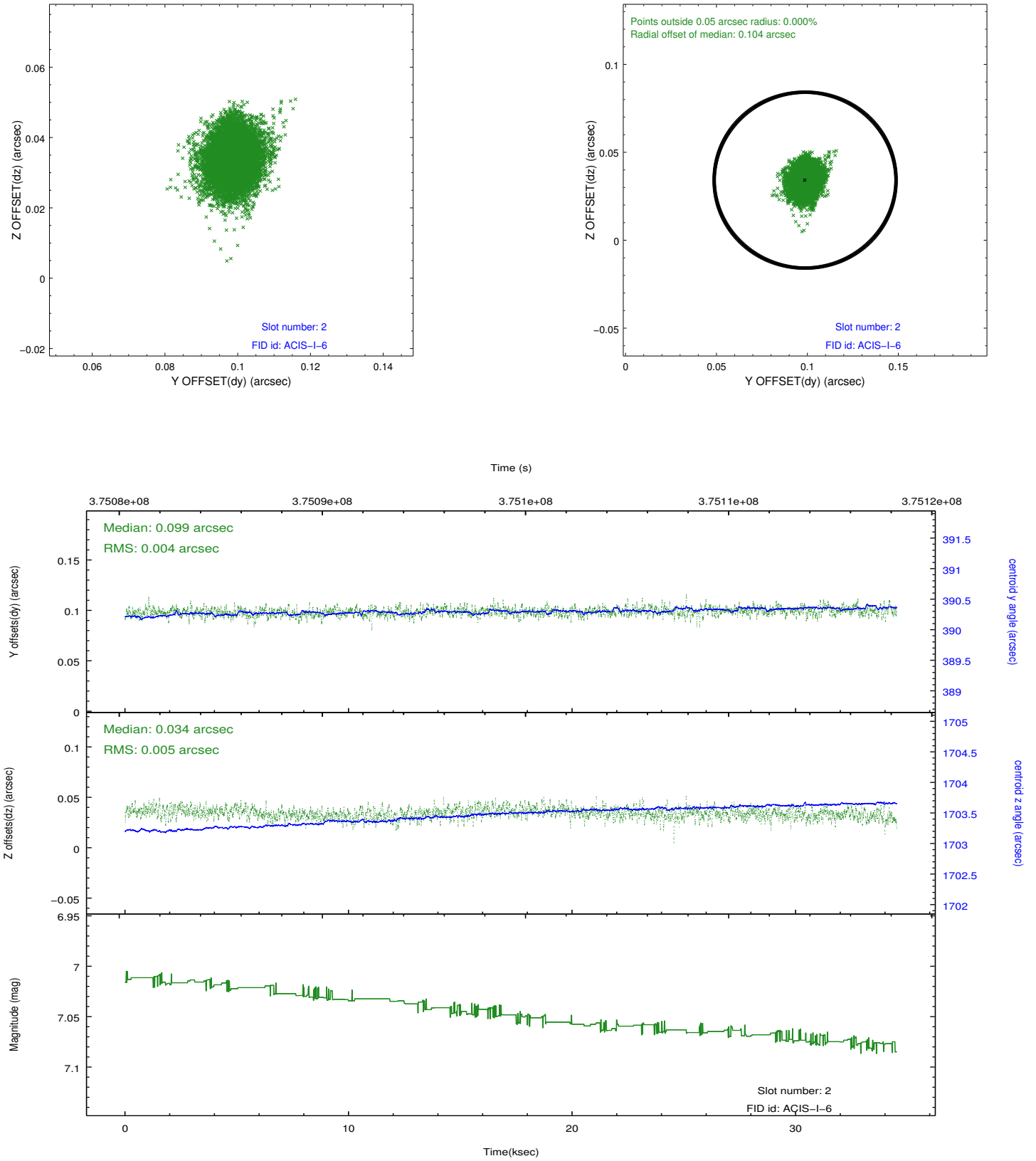
### 2.5.1 Slot 0



## 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)	2012.06.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	34.155678869784

### A.2 Comments