

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 13764 - L2 Version 1  
Chandra X-Ray Center

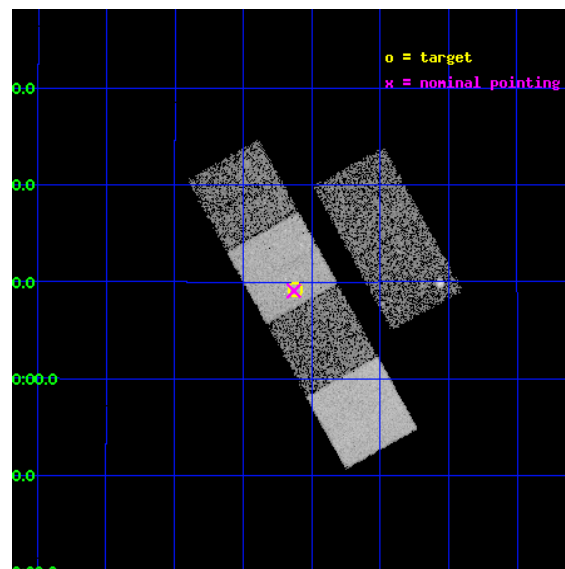
L2 Processing Date : Apr 2 2012

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# 1 Front

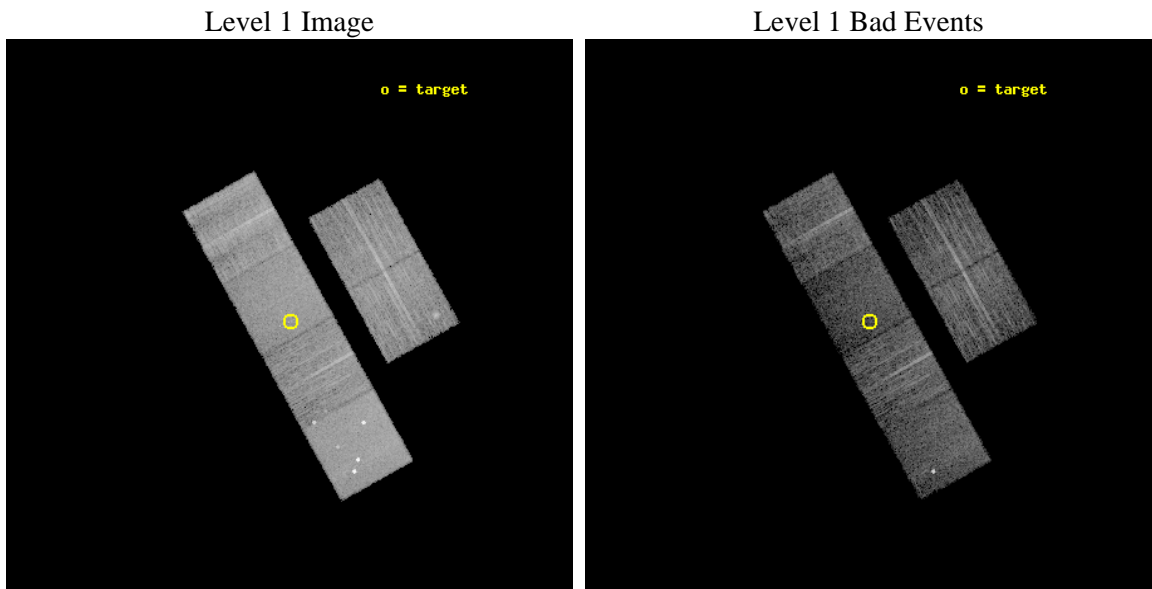
seq_num	501597	Sequence number
obs_id	13764	Observation id
title	Chandra Observations of New X-ray Supernovae	Proposal title
observer	Dr. David Pooley	Principal investigator
object	SN 2012A	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	156.280792	Observer's specified target RA [deg]
dec_targ	17.154056	Observer's specified target Dec [deg]
ra_nom	156.28230527124	Nominal RA [deg]
dec_nom	17.15138482667	Nominal Dec [deg]
roll_nom	240.90139113397	Nominal Roll [deg]
revision	1	Processing version of data
ontime	9963.324436605	Sum of GTIs [s]
livetime	9837.162823395	Livetime [s]
ontime2	9963.3654766083	Sum of GTIs [s]
ontime3	9963.2013165951	Sum of GTIs [s]
ontime5	9963.2833966017	Sum of GTIs [s]
ontime6	9963.2423565984	Sum of GTIs [s]
ontime7	9963.324436605	Sum of GTIs [s]
ontime8	9963.1602765918	Sum of GTIs [s]
l2events	89098	Number of level 2 events



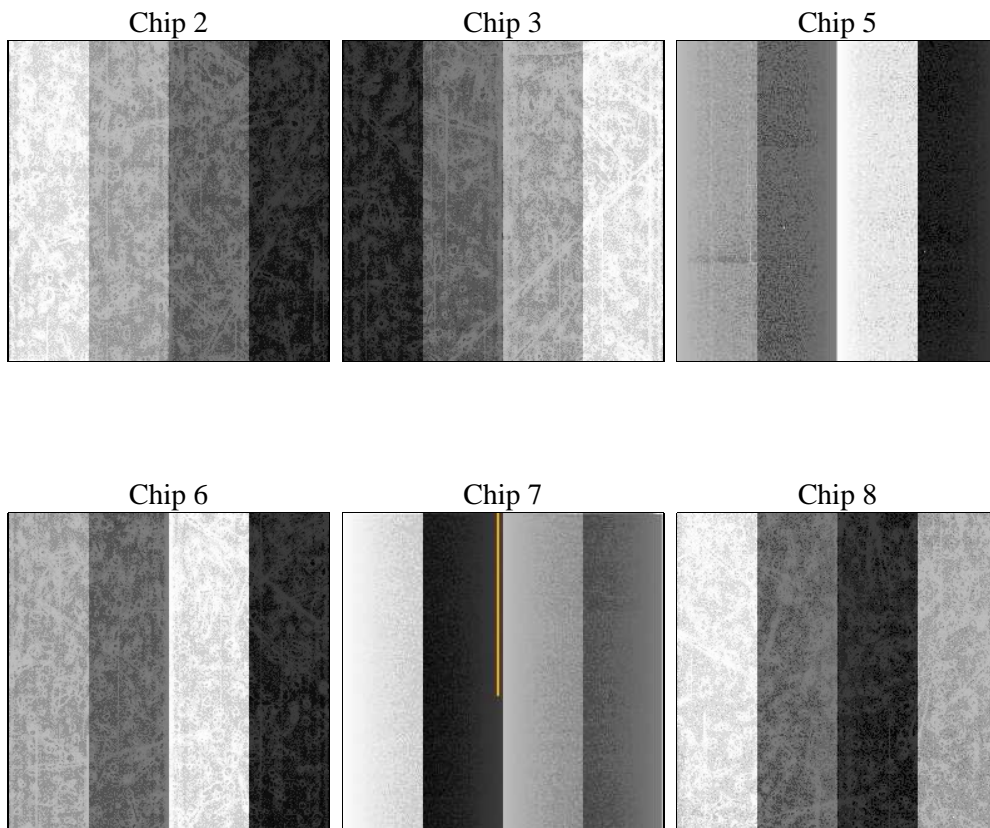
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	9963.324436605	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime2	9963.3654766083	Sum of GTIs [s]
date	2012-04-02T15:42:36	Date and time of file creation	ontime3	9963.2013165951	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	9963.2833966017	Sum of GTIs [s]
			ontime6	9963.2423565984	Sum of GTIs [s]
			ontime7	9963.324436605	Sum of GTIs [s]
			ontime8	9963.1602765918	Sum of GTIs [s]
			l1events	379230	Number of level 1 events

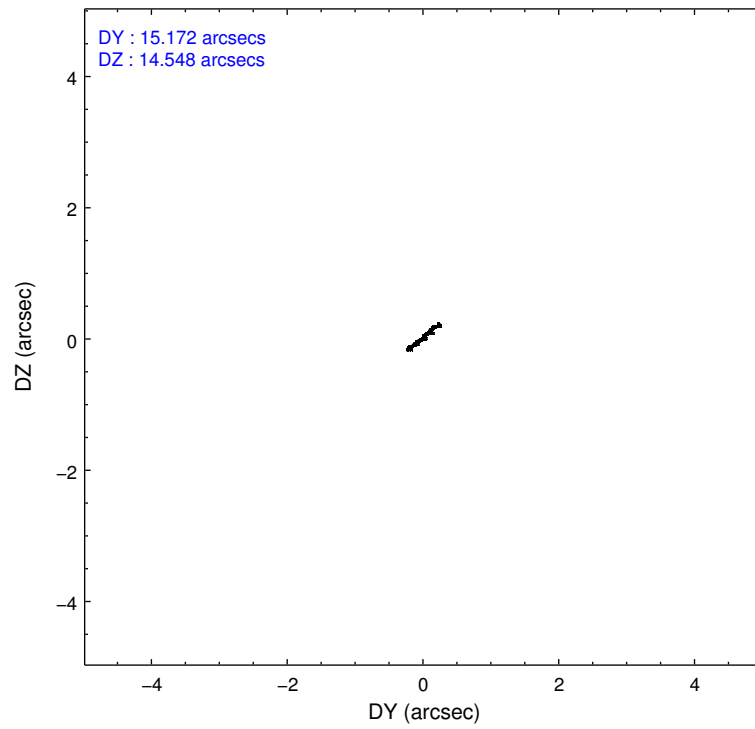
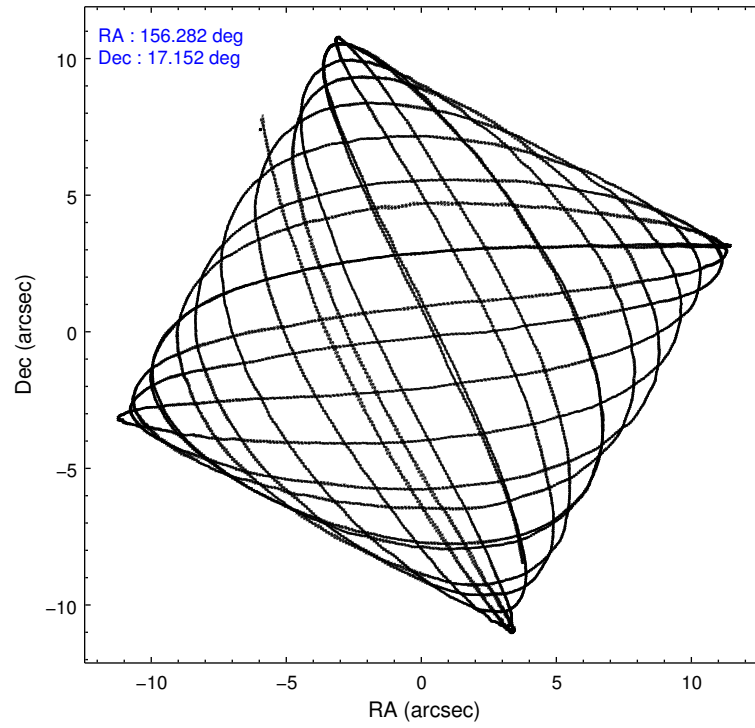
### 2.1.4 Events

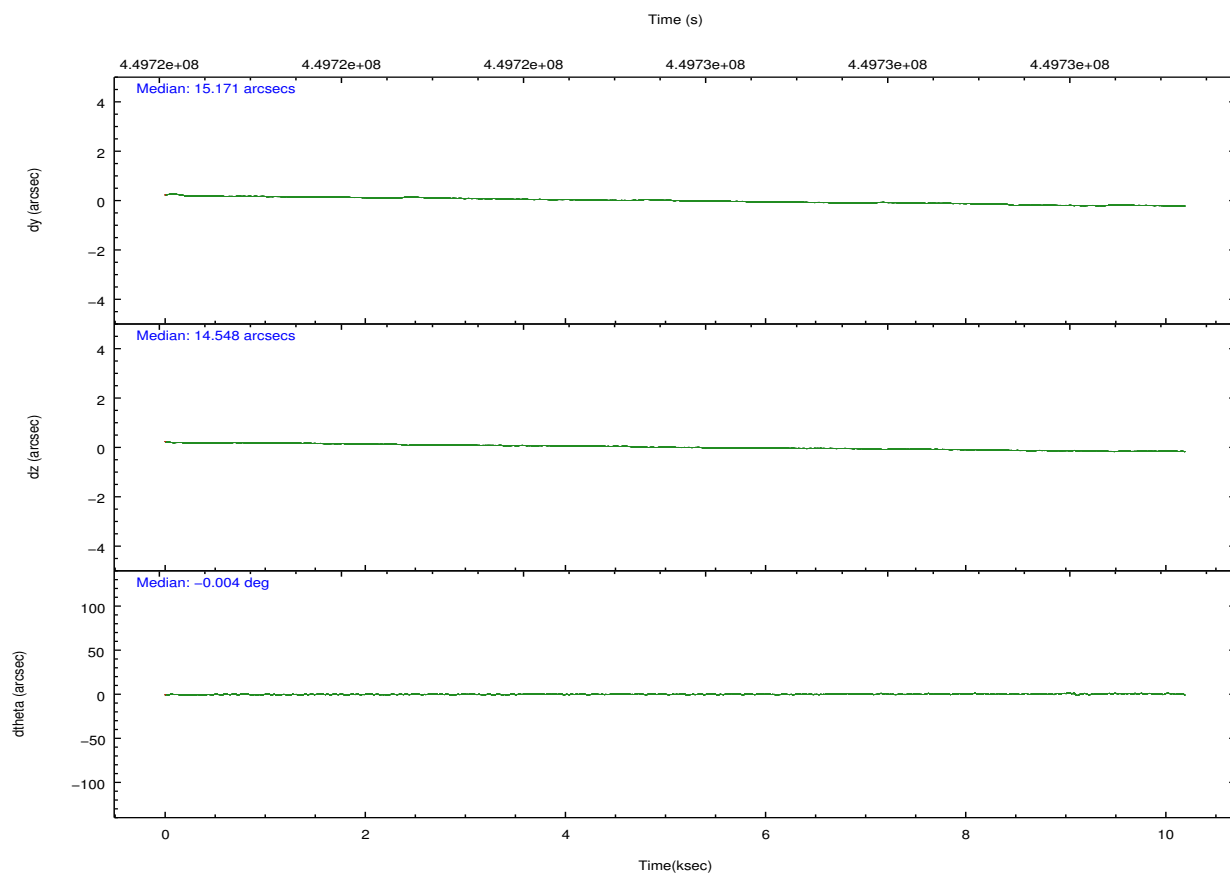
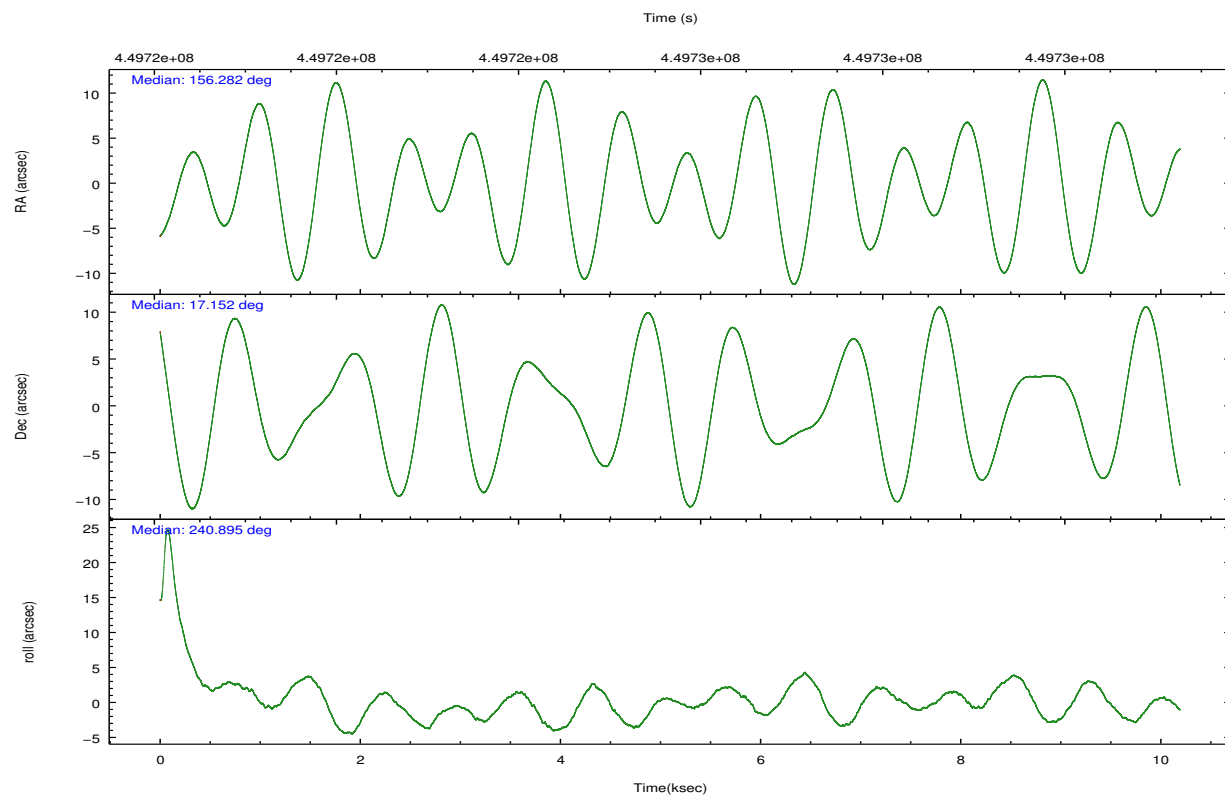
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	55984	49935	86666	53446	61503	71696	grade 0 events	2897	2029	9170	2410	3182	5902
rejected events	49136	44362	39836	46906	31491	50519		5%	4%	10%	4%	5%	8%
rejected %	87%	88%	45%	87%	51%	70%	grade 1 events	34	36	307	35	94	50
								0%	0%	0%	0%	0%	0%
							grade 2 events	1558	1239	13717	1445	6459	4844
								2%	2%	15%	2%	10%	6%
							grade 3 events	625	597	1551	682	2697	2468
								1%	1%	1%	1%	4%	3%
							grade 4 events	638	586	1498	645	2730	2298
								1%	1%	1%	1%	4%	3%
							grade 5 events	1952	2350	6262	2314	6399	3440
								3%	4%	7%	4%	10%	4%
							grade 6 events	1133	1123	20929	1366	14970	5688
								2%	2%	24%	2%	24%	7%
							grade 7 events	47147	41975	33232	44549	24972	47006
								84%	84%	38%	83%	40%	65%

## 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	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	156.281461	156.282305271242	CCD I2 on	O1	Y
[deg] Pointing Dec	17.178724	17.15138482667008	CCD I3 on	O2	Y
[deg] Pointing Roll	240.745027	240.9013911339679	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	449720767.184000	449719226.62949	CCD S5 on	N	N
Observation start date	2012-04-02T02:25:01	2012-04-02T02:00:26	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	449730767.184000	449731245.78012	On-chip summing requested	N	N
Observation end date	2012-04-02T05:11:41	2012-04-02T05:20:45	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



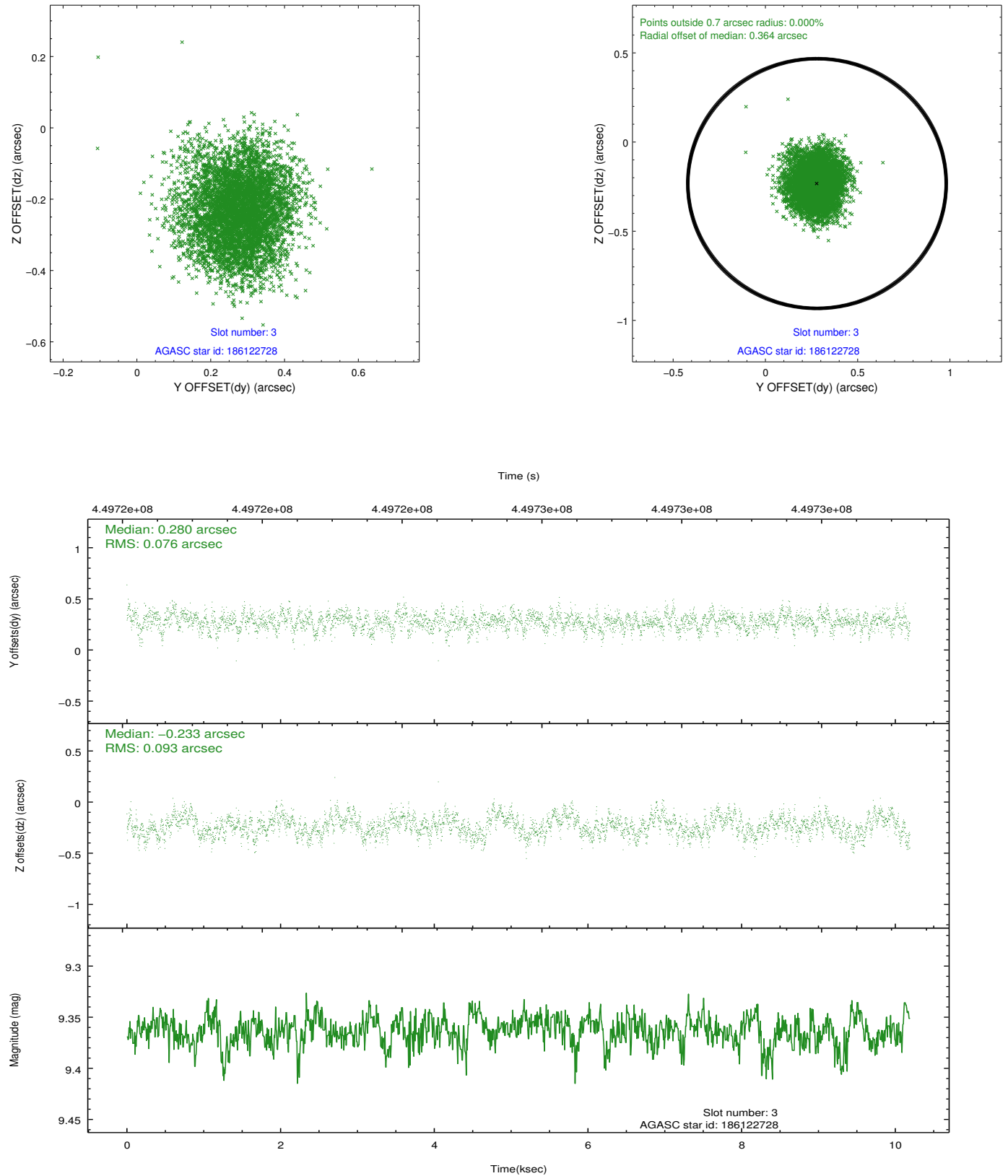


### Slot Statistics

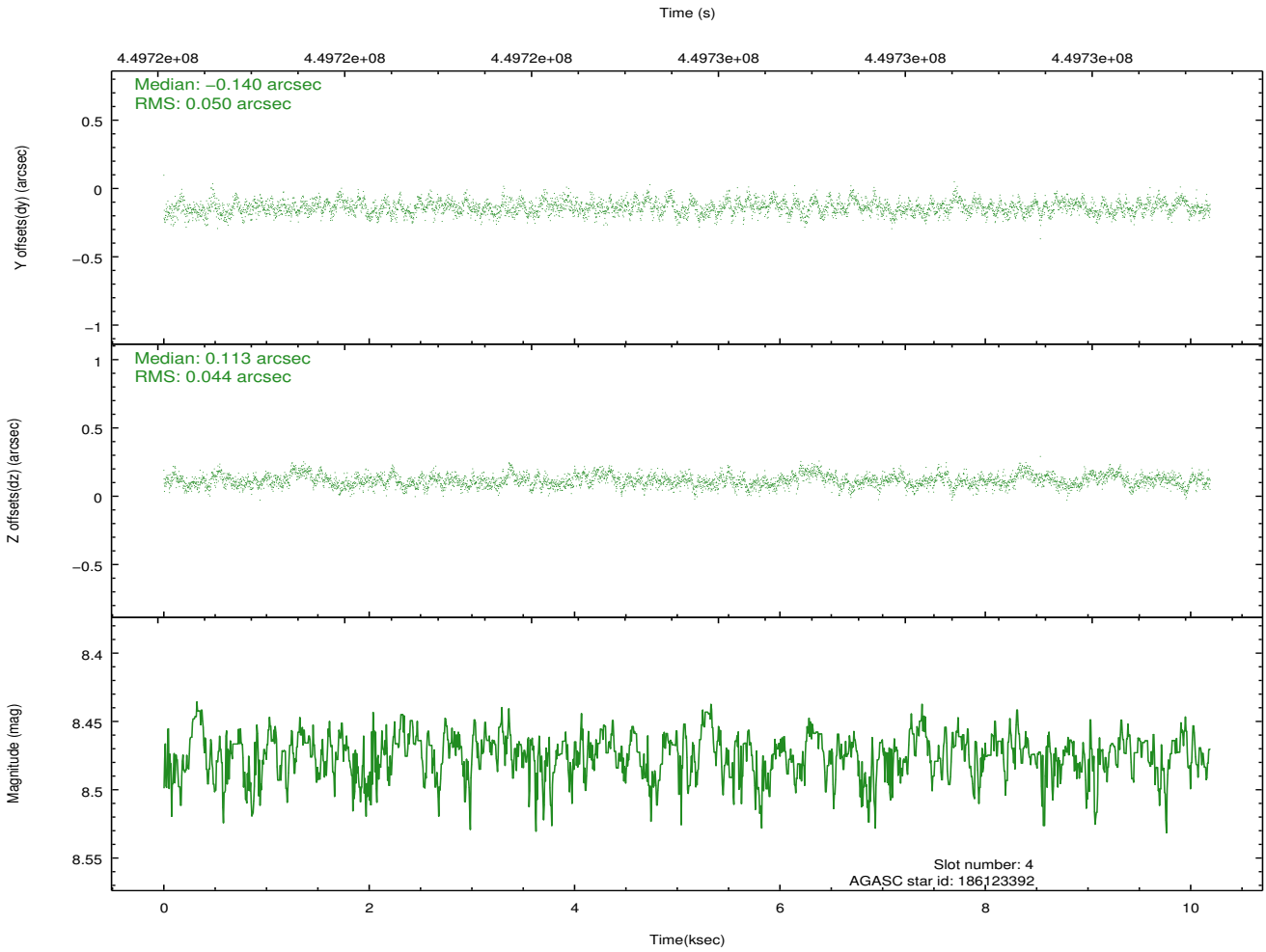
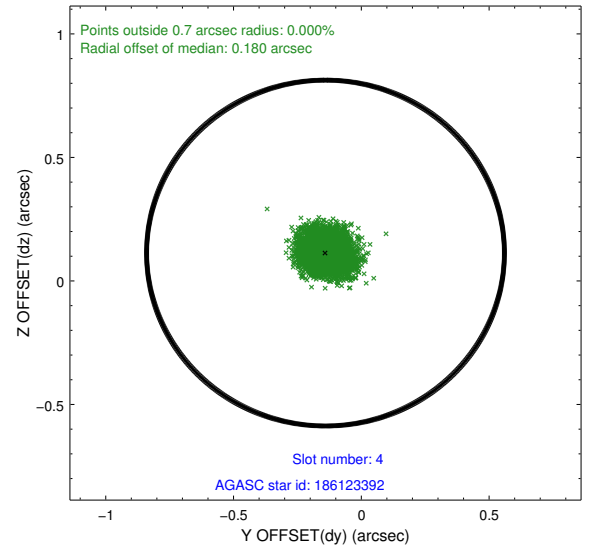
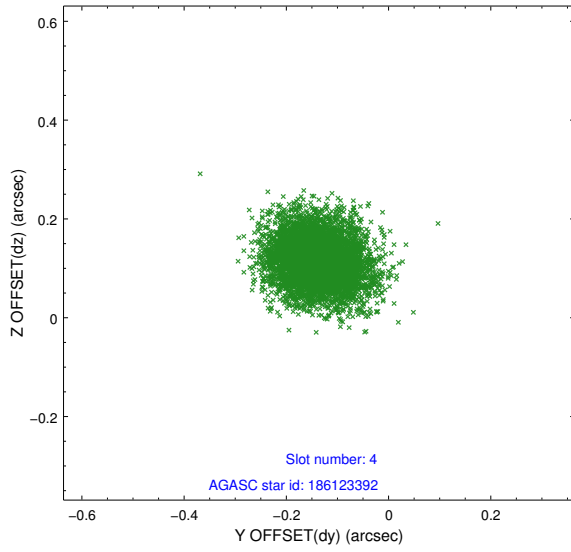
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.95	2485	-0.125	-0.027	0.007	0.013	0.000000	0.000000	-768.27	-1735.95
1	FID	ACIS-S-4	7.04	2486	0.253	0.068	0.005	0.010	0.000000	0.000000	2145.16	172.07
2	FID	ACIS-S-5	7.07	2486	-0.159	-0.032	0.007	0.013	0.000000	0.000000	-1820.47	166.25
3	GUIDE	186122728	9.36	4967	0.280	-0.233	0.129	0.205	155.566003	17.119745	1385.14	-2045.76
4	GUIDE	186123392	8.47	4971	-0.140	0.113	0.072	0.116	156.601033	17.224705	-681.82	877.37
5	GUIDE	186125592	9.15	4960	0.064	0.025	0.117	0.192	155.671720	16.931227	1802.75	-1398.75
6	GUIDE	186523312	8.39	4967	-0.119	0.083	0.077	0.126	156.148158	17.917316	-2095.72	-1698.06
7	GUIDE	186524120	7.90	4971	-0.090	0.015	0.080	0.122	156.292810	17.527699	-1115.00	-580.14

## 2.4 Star Slots

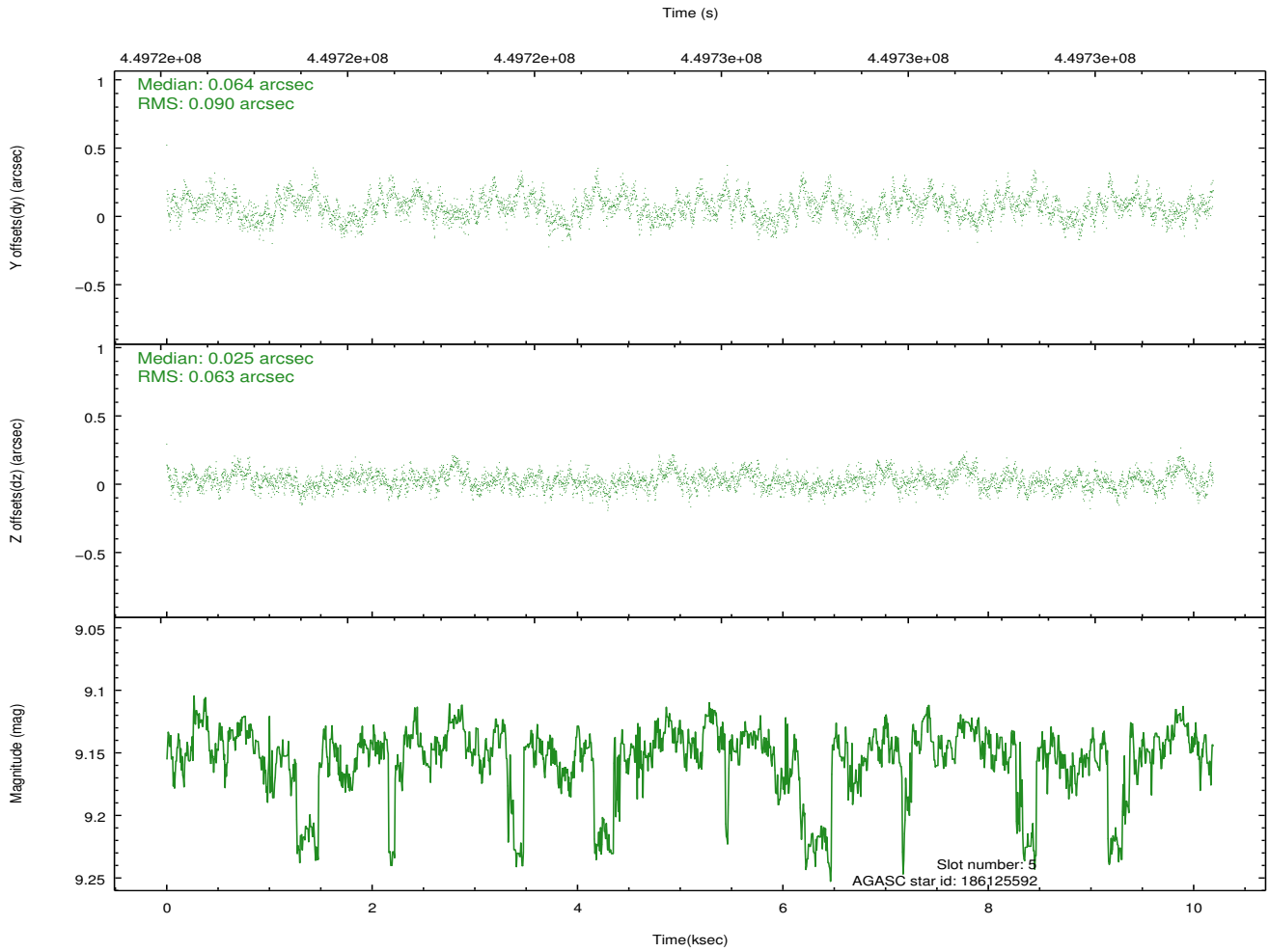
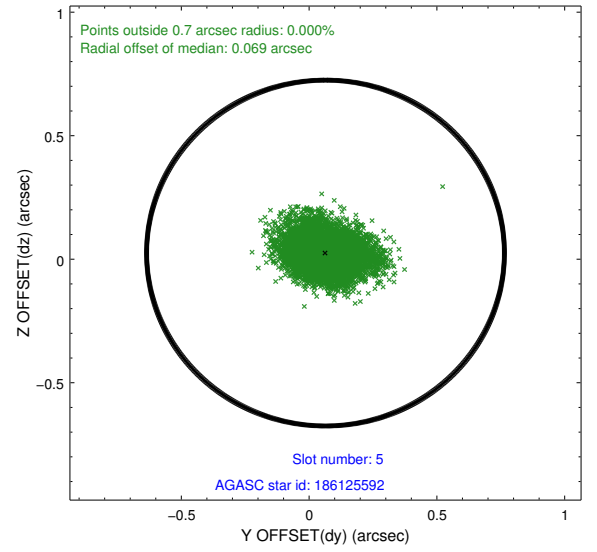
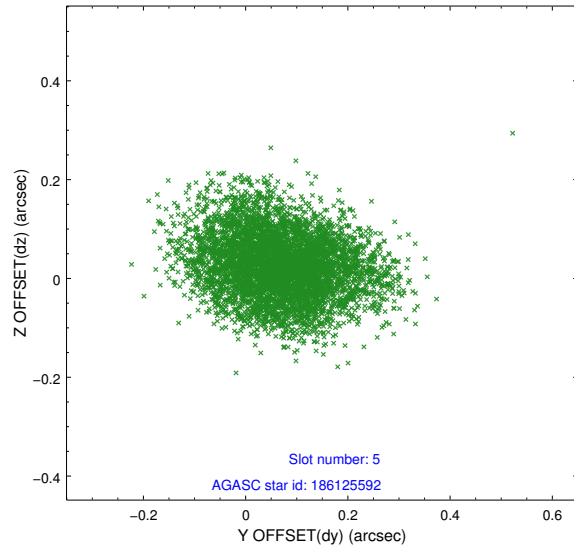
### 2.4.1 Slot 3



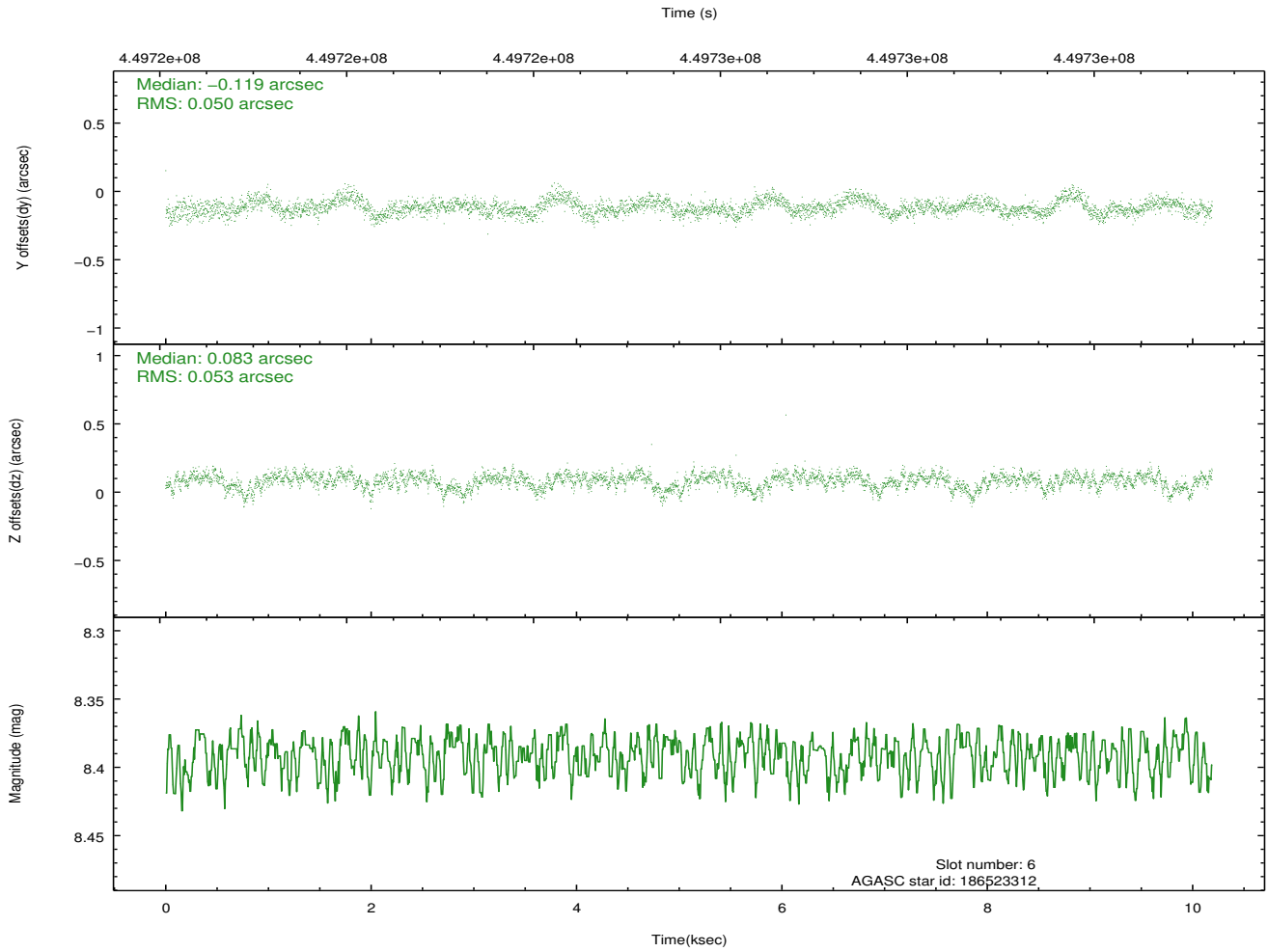
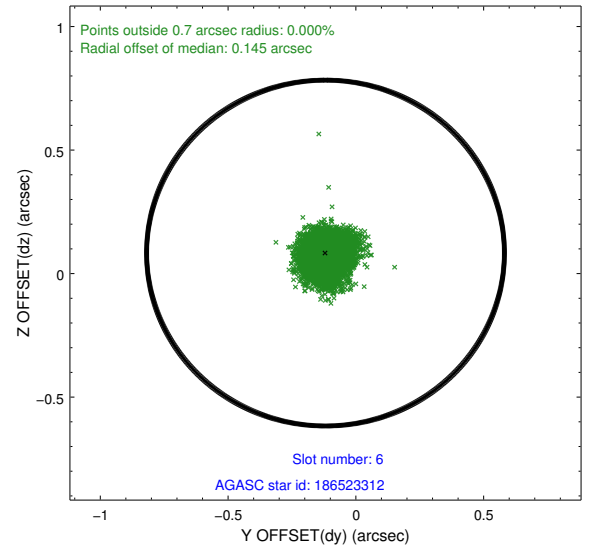
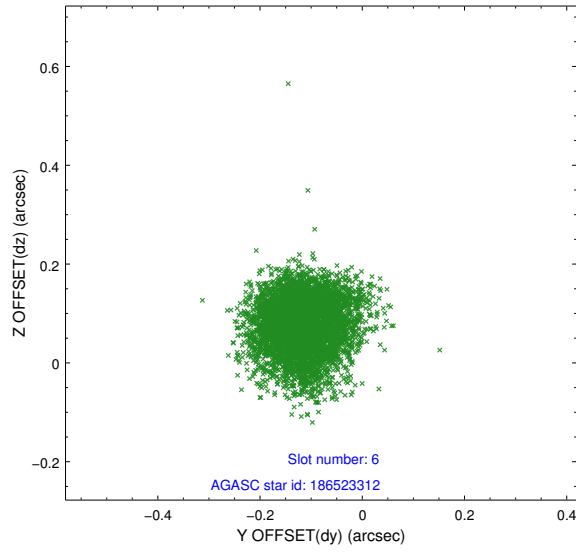
## 2.4.2 Slot 4



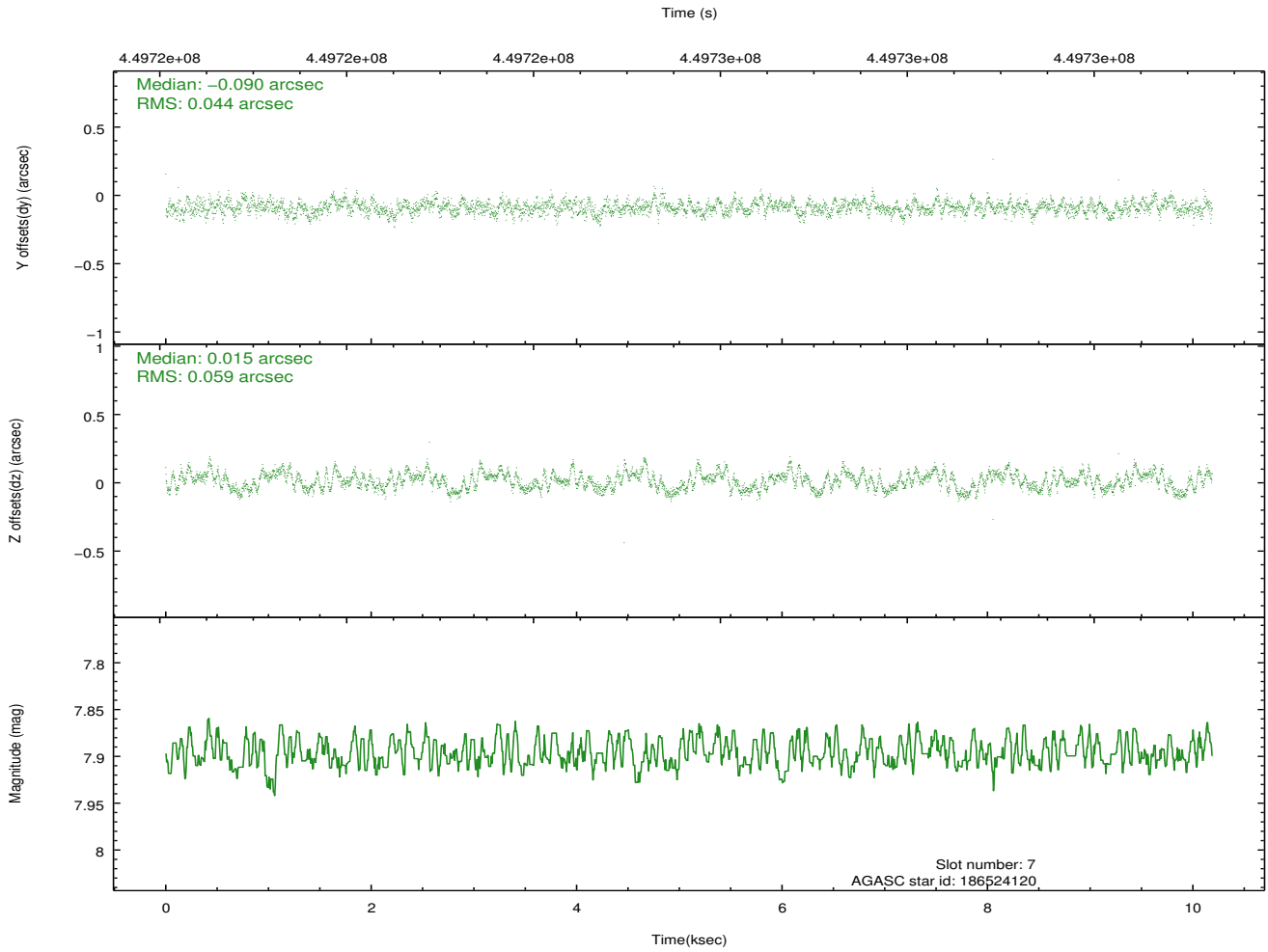
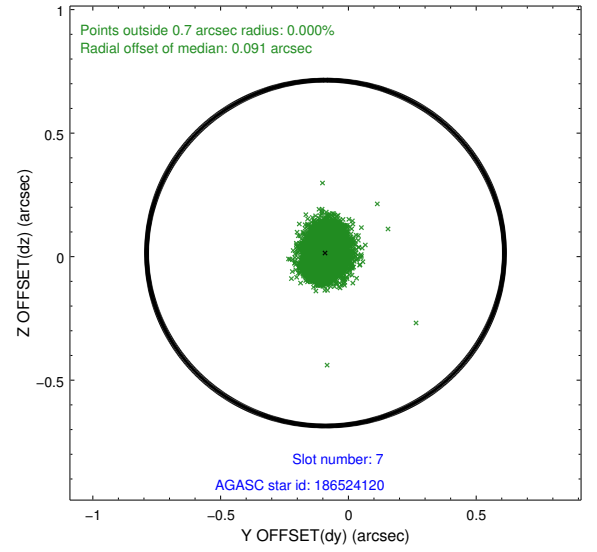
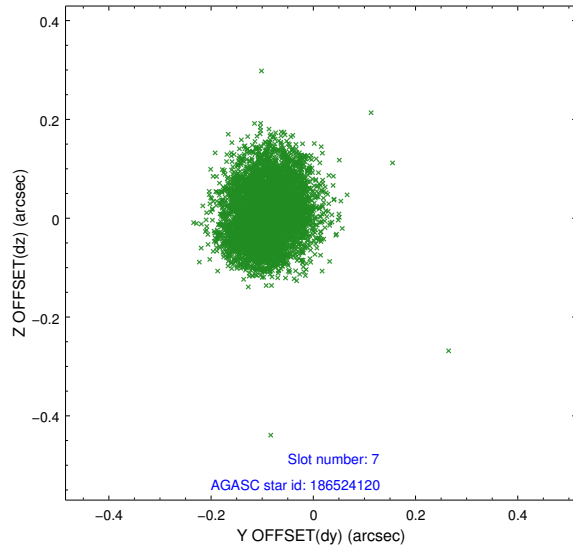
### 2.4.3 Slot 5



## 2.4.4 Slot 6

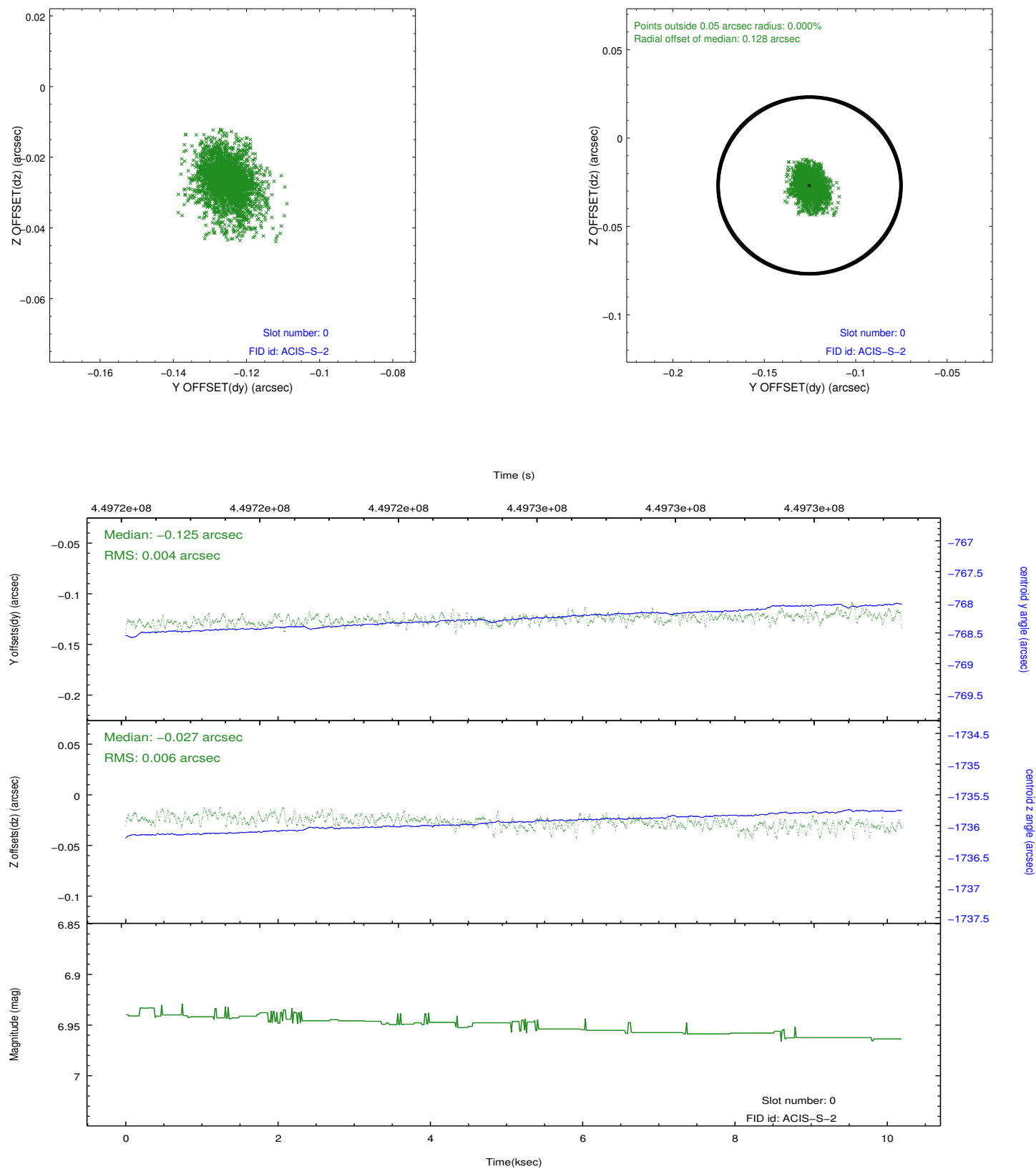


## 2.4.5 Slot 7

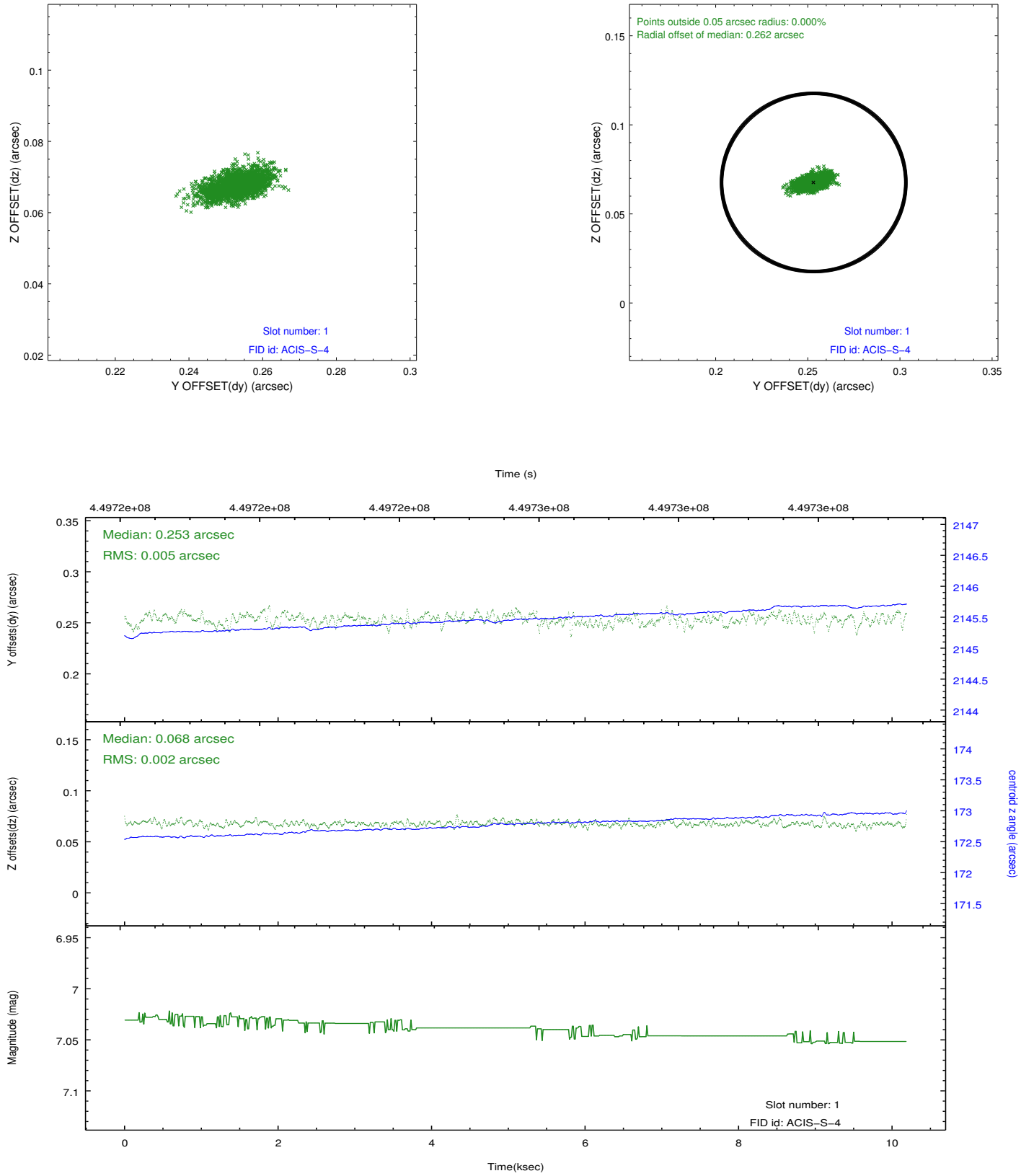


## 2.5 FID Slots

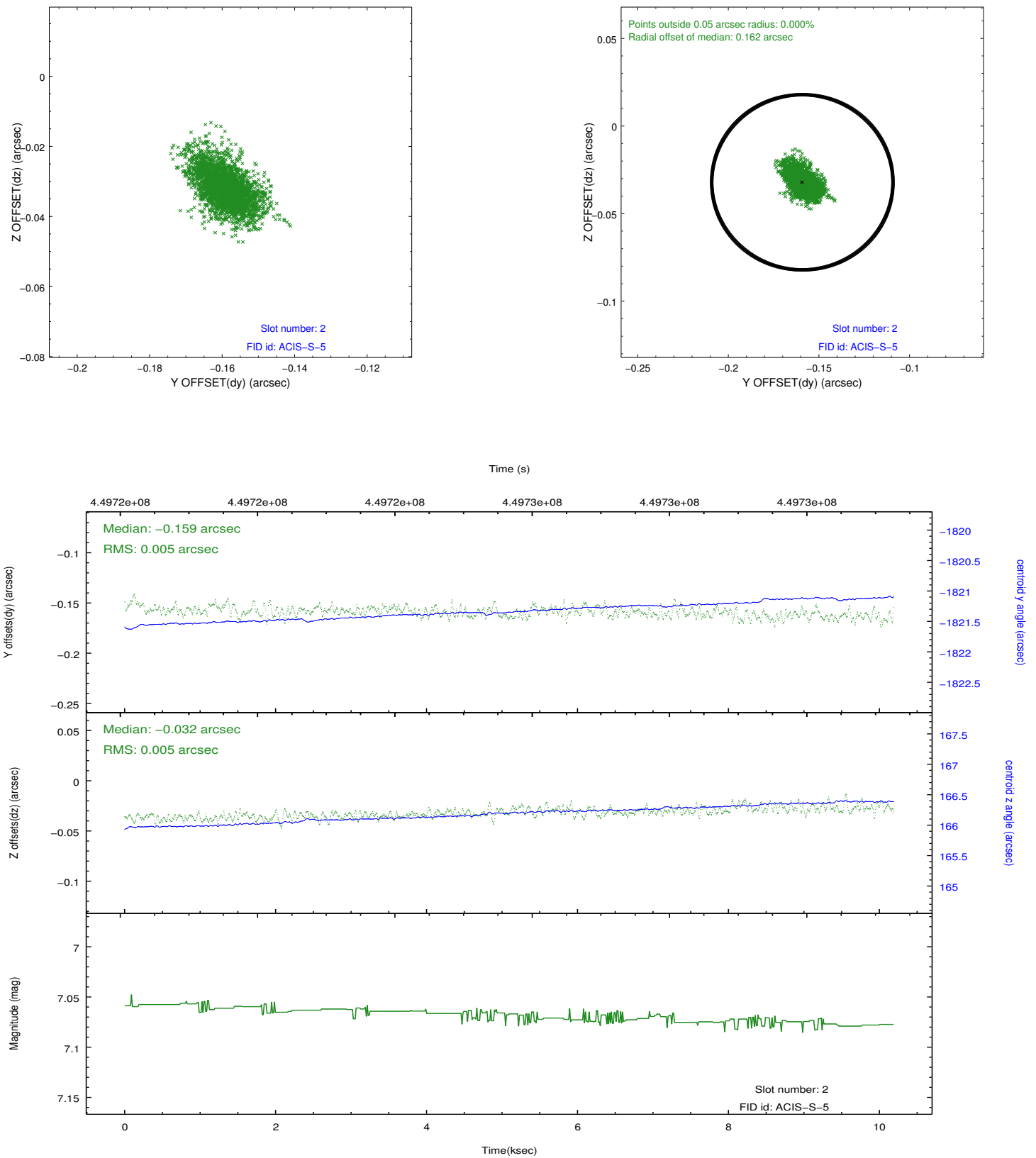
### 2.5.1 Slot 0



## 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)	2012.04.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.963324436605

### A.2 Comments