

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 5388 - L2 Version 3  
Chandra X-Ray Center

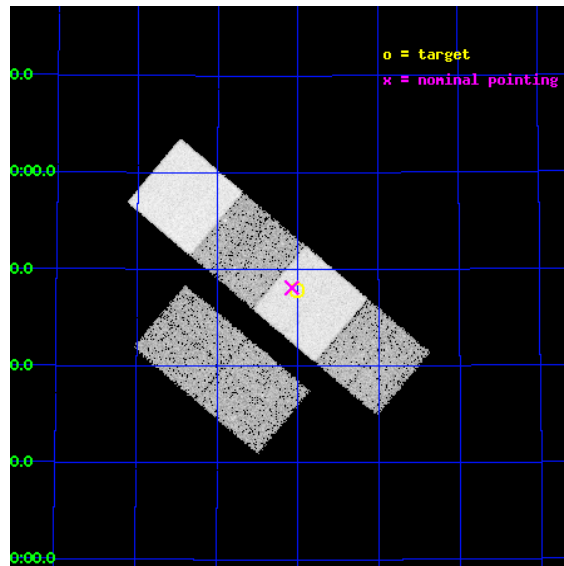
L2 Processing Date : Dec 20 2012

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# 1 Front

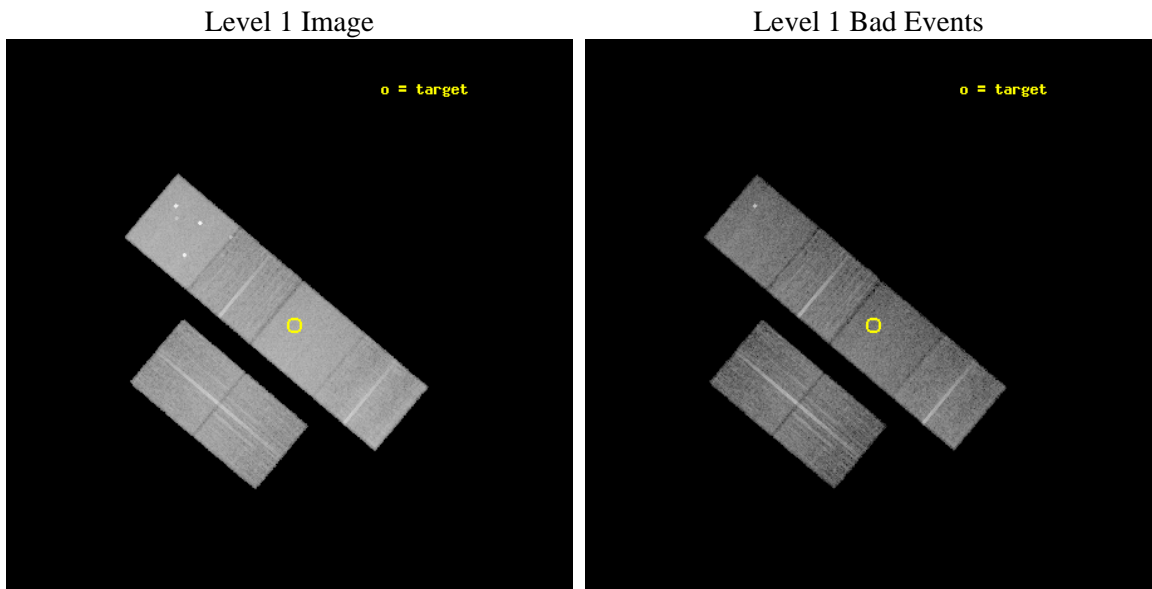
seq_num	200323	Sequence number
obs_id	5388	Observation id
title	The puzzle of X-ray emission from magnetic stars without convective envelopes	Proposal title
observer	Prof. Jurgen Schmitt	Principal investigator
object	HD 208095	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	328.004167	Observer's specified target RA [deg]
dec_targ	55.79675	Observer's specified target Dec [deg]
ra_nom	328.01910877976	Nominal RA [deg]
dec_nom	55.801625502911	Nominal Dec [deg]
roll_nom	40.127029198425	Nominal Roll [deg]
revision	3	Processing version of data
ontime	14457.599946141	Sum of GTIs [s]
livetime	14274.529110302	Livetime [s]
ontime2	14457.599946141	Sum of GTIs [s]
ontime3	14454.358975857	Sum of GTIs [s]
ontime5	14457.599946141	Sum of GTIs [s]
ontime6	14457.599946141	Sum of GTIs [s]
ontime7	14457.599946141	Sum of GTIs [s]
ontime8	14457.563701749	Sum of GTIs [s]
l2events	172551	Number of level 2 events



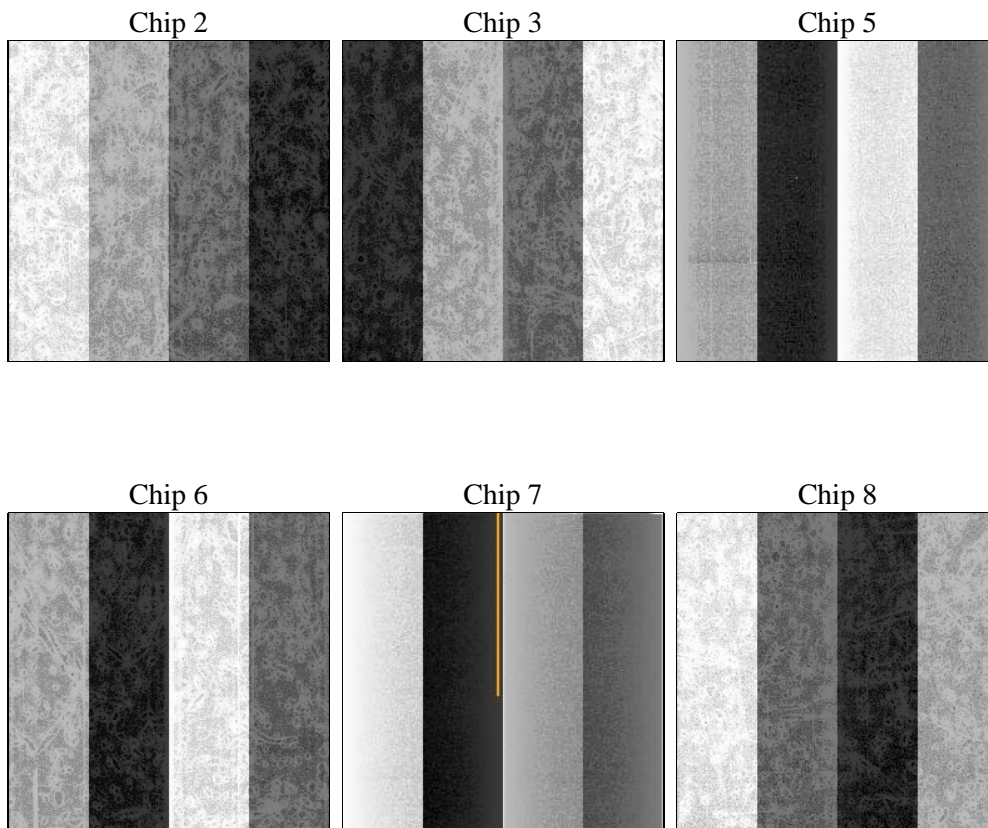
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	14500.000000	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	14457.599946141	Sum of GTIs [s]
caldbver	4.5.5	&#160	ontime2	14457.599946141	Sum of GTIs [s]
date	2012-12-20T22:27:55	Date and time of file creation	ontime3	14454.358975857	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	14457.599946141	Sum of GTIs [s]
			ontime6	14457.599946141	Sum of GTIs [s]
			ontime7	14457.599946141	Sum of GTIs [s]
			ontime8	14457.563701749	Sum of GTIs [s]
			l1events	770319	Number of level 1 events

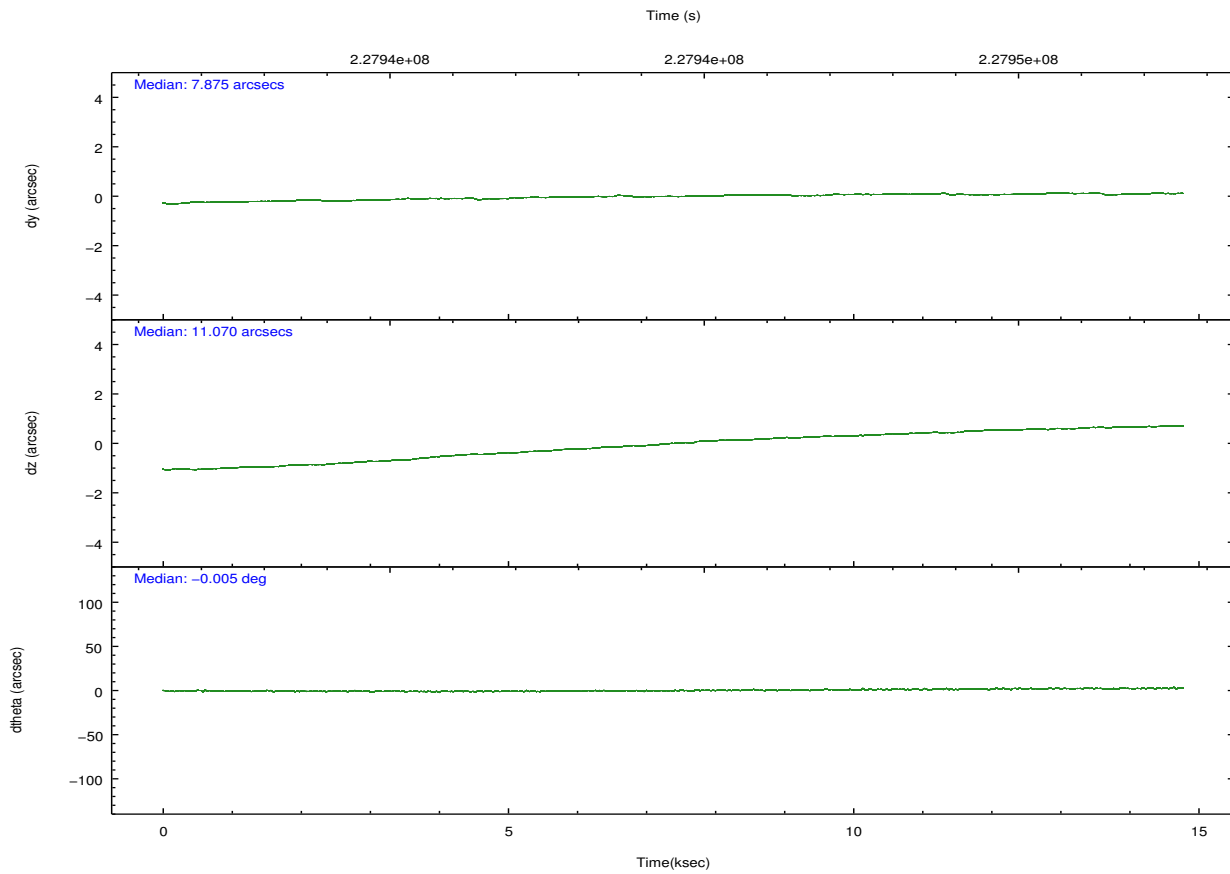
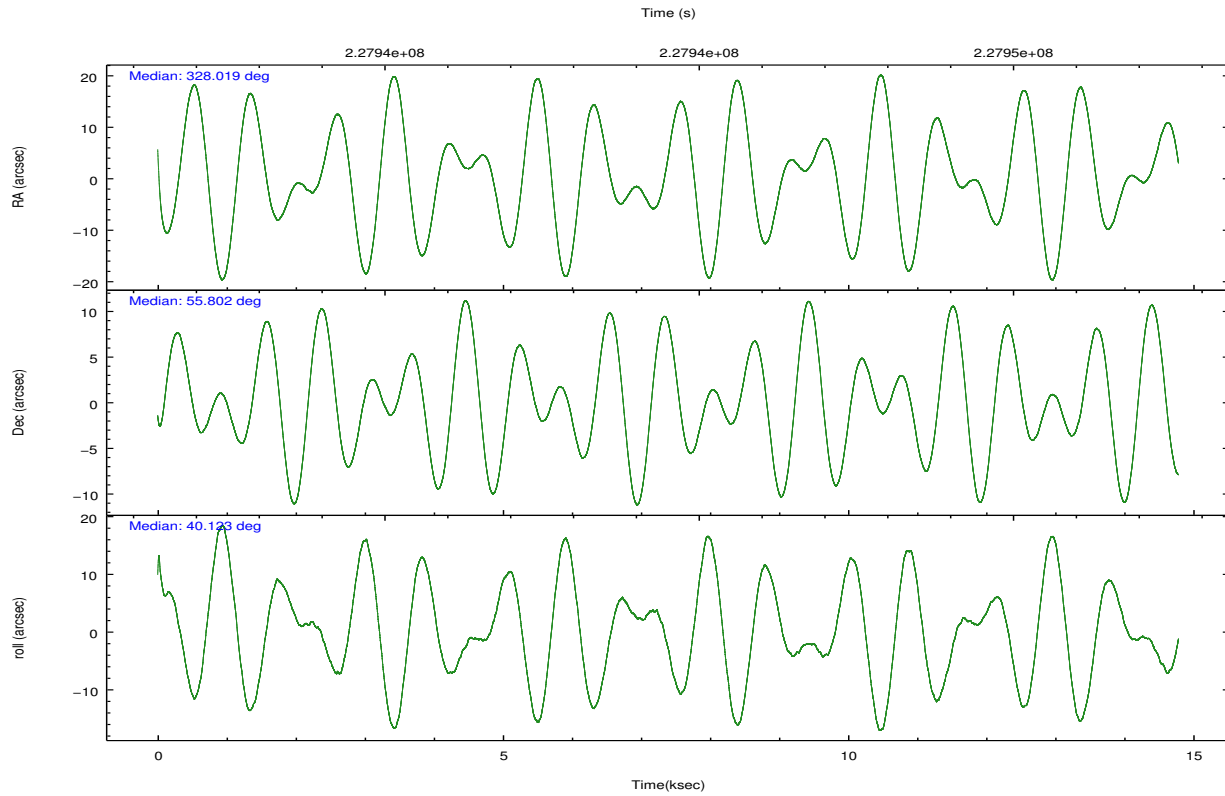
### 2.1.4 Events

	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	108892	103702	168997	109807	145126	133795	grade 0 events	5688	5270	12066	5137	5255	9058
rejected events	95997	91436	88916	96919	85462	104885		5%	5%	7%	4%	3%	6%
rejected %	88%	88%	52%	88%	58%	78%	grade 1 events	64	74	217	51	124	79
								0%	0%	0%	0%	0%	0%
							grade 2 events	2583	2449	23322	2684	11899	6472
								2%	2%	13%	2%	8%	4%
							grade 3 events	1249	1210	2914	1222	5411	3050
								1%	1%	1%	1%	3%	2%
							grade 4 events	1244	1217	2840	1210	5073	2864
								1%	1%	1%	1%	3%	2%
							grade 5 events	4295	4803	12649	4964	14207	6642
								3%	4%	7%	4%	9%	4%
							grade 6 events	2134	2121	38954	2635	32042	7468
								1%	2%	23%	2%	22%	5%
							grade 7 events	91635	86558	76035	91904	71115	98162
								84%	83%	44%	83%	49%	73%

## 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	328.003224	328.019108779757	Subarray requested	NONE	NONE
[deg] Pointing Dec	55.775863	55.80162550291131	Alternating exposures requested	N	N
[deg] Pointing Roll	39.983527	40.12702919842459	[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	-190.145094680475			
[mm] SIM translation stage offset	0	0.01257209746719923			
[s] Observation start time (MET)	227937397.184000	227936379.02908			
Observation start date	2005-03-23T03:55:33	2005-03-23T03:39:39			
[s] Observation end time (MET)	227951897.184000	227953207.99235			
Observation end date	2005-03-23T07:57:13	2005-03-23T08:20:07			
Read mode	TIMED	TIMED			

## 2.3 Aspect

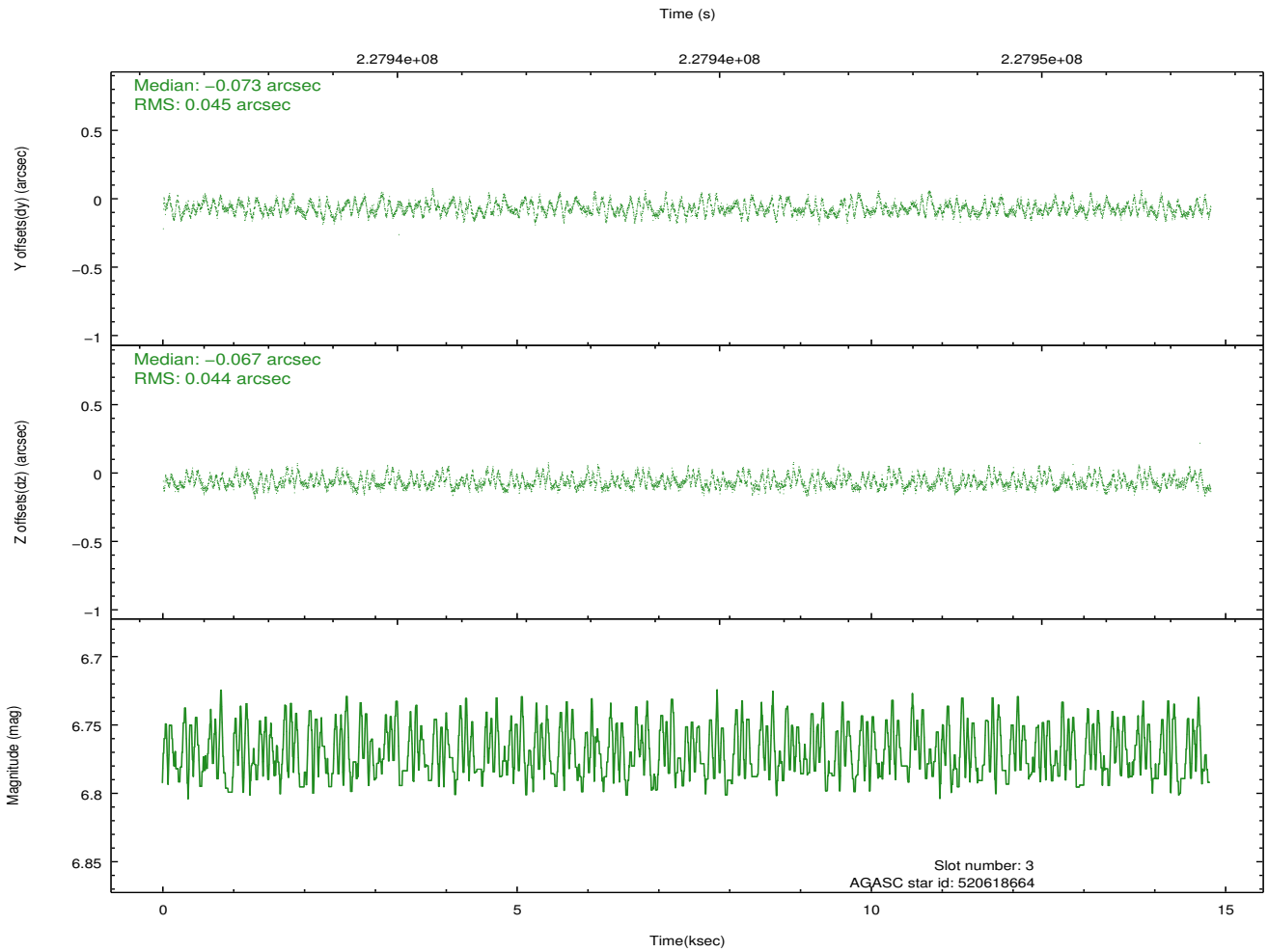
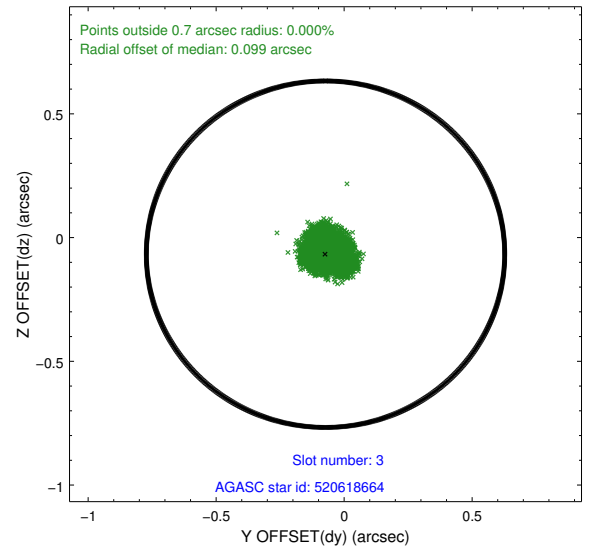
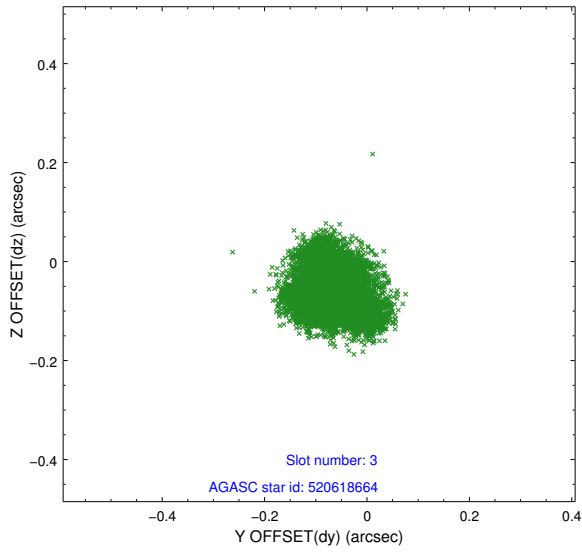


### Slot Statistics

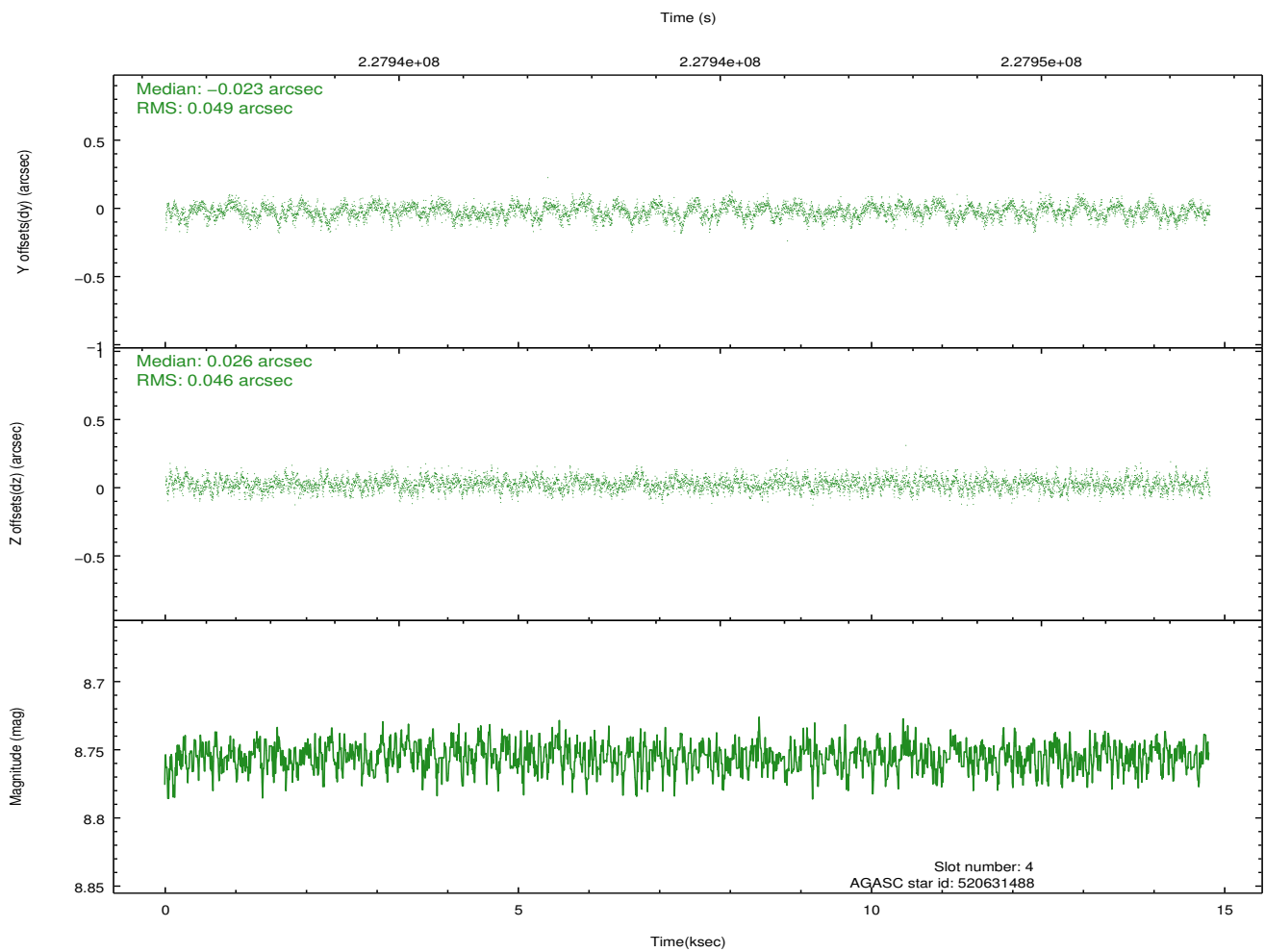
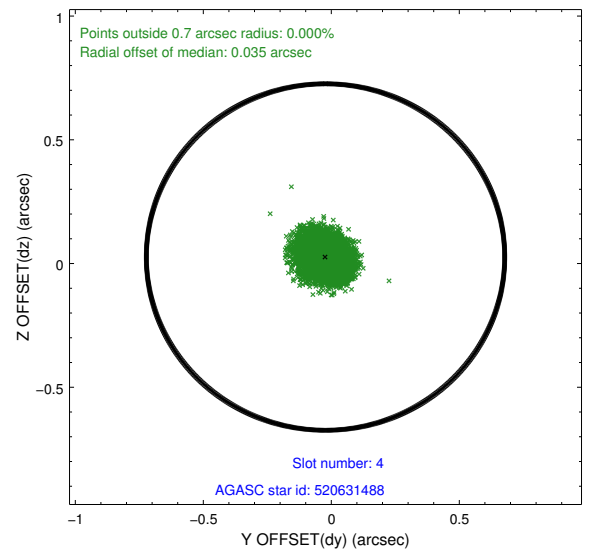
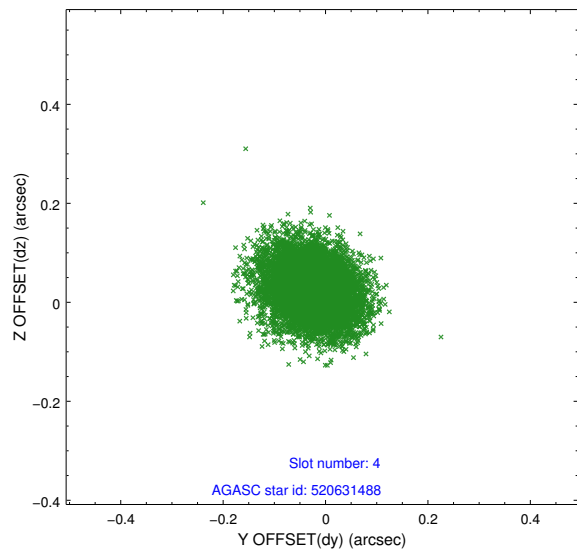
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	3605	-0.033	-0.012	0.012	0.018	0.000000	0.000000	-760.62	-1732.17
1	FID	ACIS-S-4	7.20	3605	0.093	0.019	0.009	0.015	0.000000	0.000000	2152.61	176.07
2	FID	ACIS-S-5	7.23	3605	-0.091	0.002	0.008	0.014	0.000000	0.000000	-1813.16	170.01
3	GUIDE	520618664	6.77	7212	-0.073	-0.067	0.068	0.105	328.279876	56.212557	1435.40	849.70
4	GUIDE	520631488	8.76	7212	-0.023	0.026	0.072	0.117	327.475774	56.103532	-50.90	1587.74
5	GUIDE	520633488	9.02	7207	0.063	-0.082	0.077	0.126	327.975448	55.254427	-1249.60	-1401.51
6	GUIDE	520634688	9.17	7212	0.067	0.103	0.100	0.159	327.685137	55.411733	-1339.16	-585.67
7	GUIDE	520637896	7.68	7210	-0.035	0.022	0.051	0.085	328.127923	55.039850	-1505.31	-2195.39

## 2.4 Star Slots

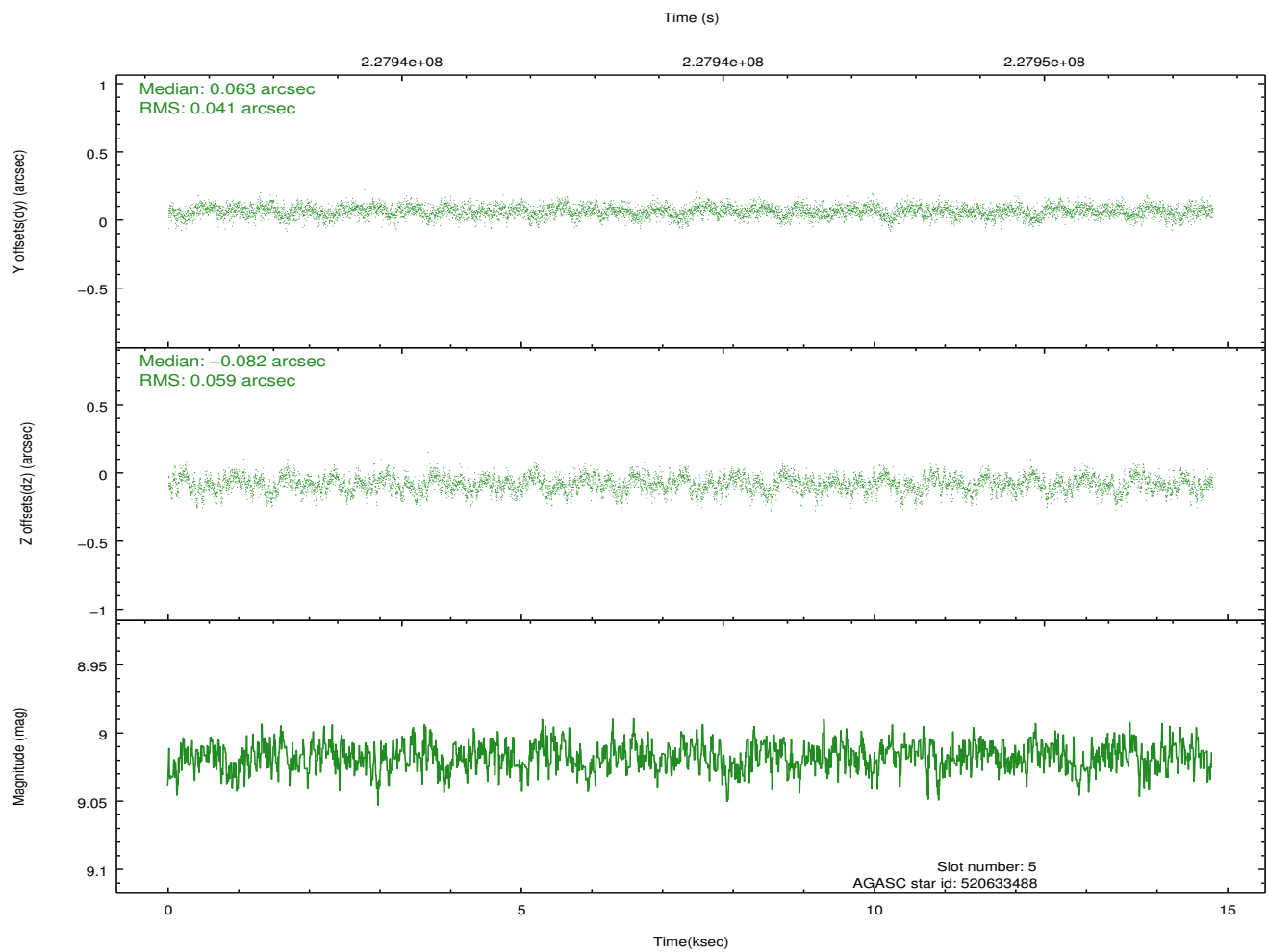
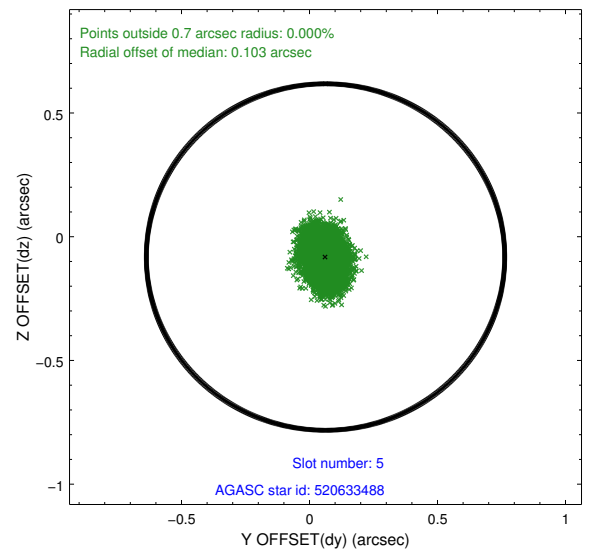
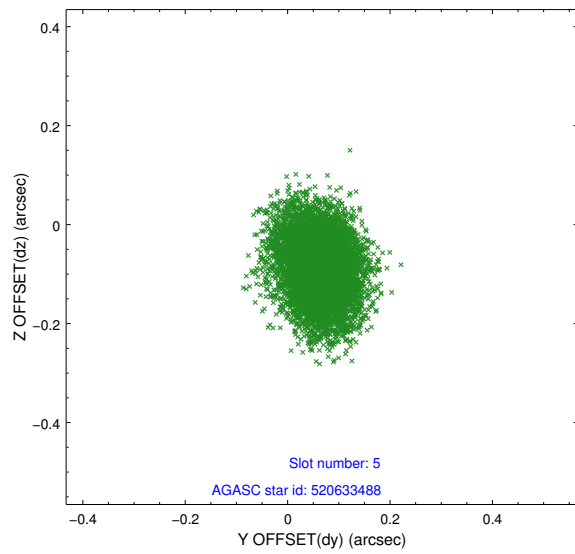
### 2.4.1 Slot 3



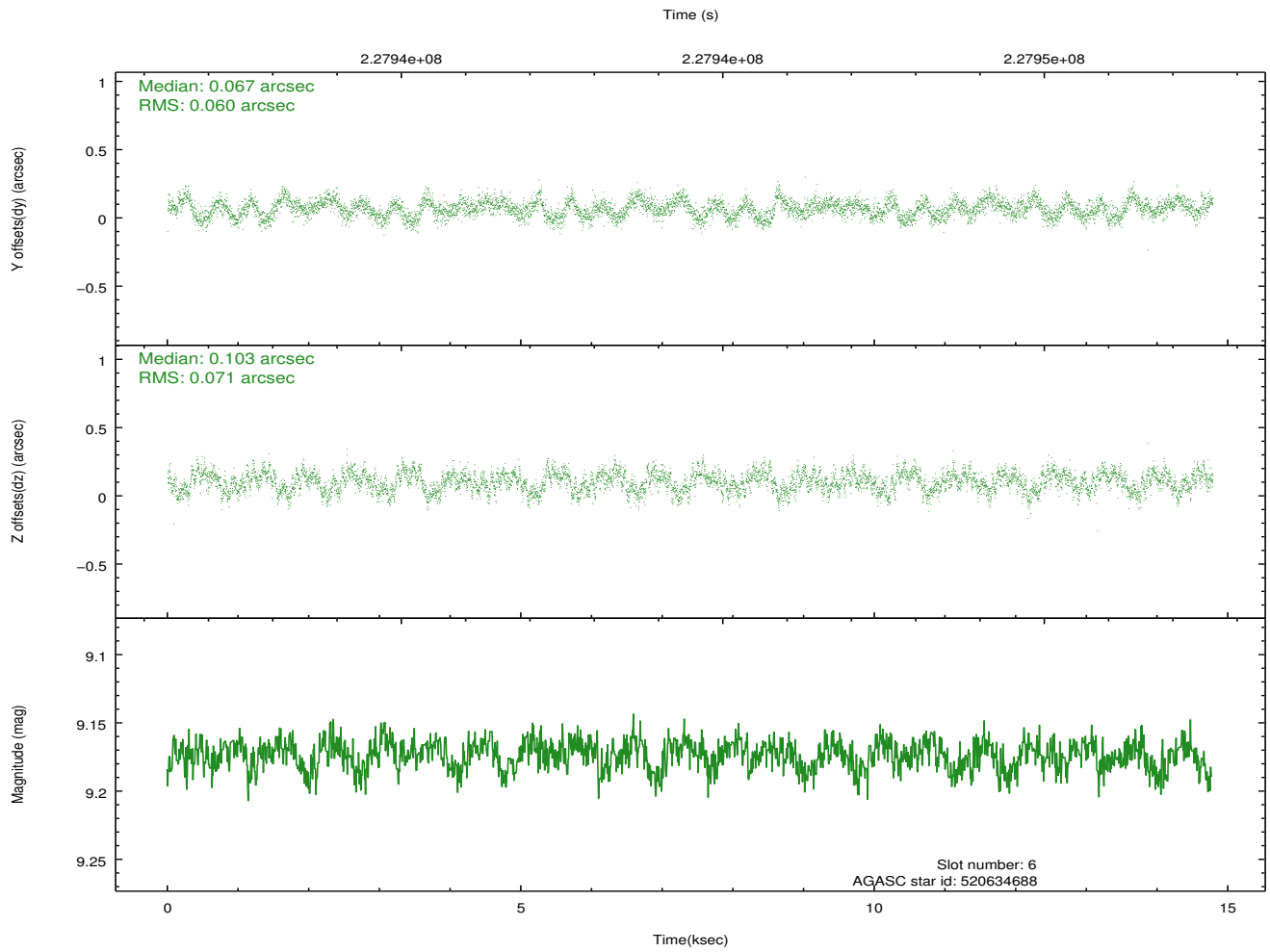
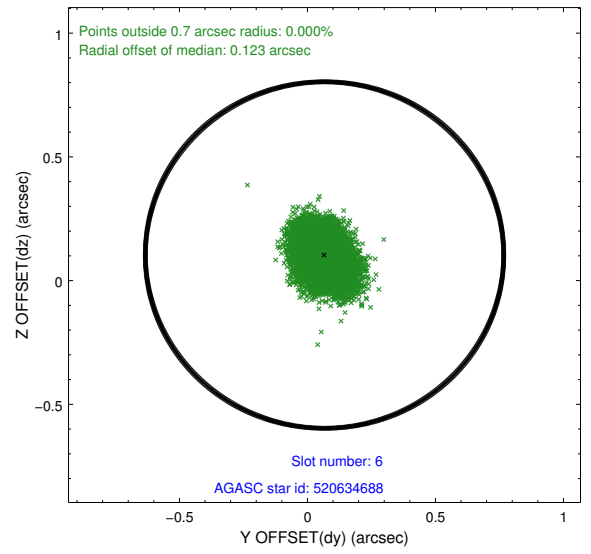
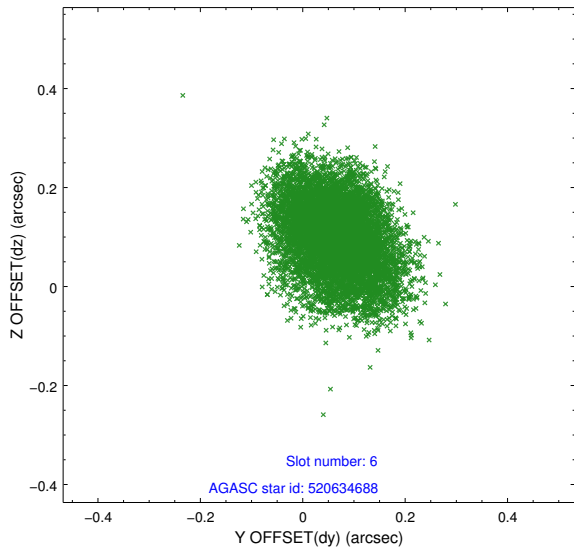
## 2.4.2 Slot 4



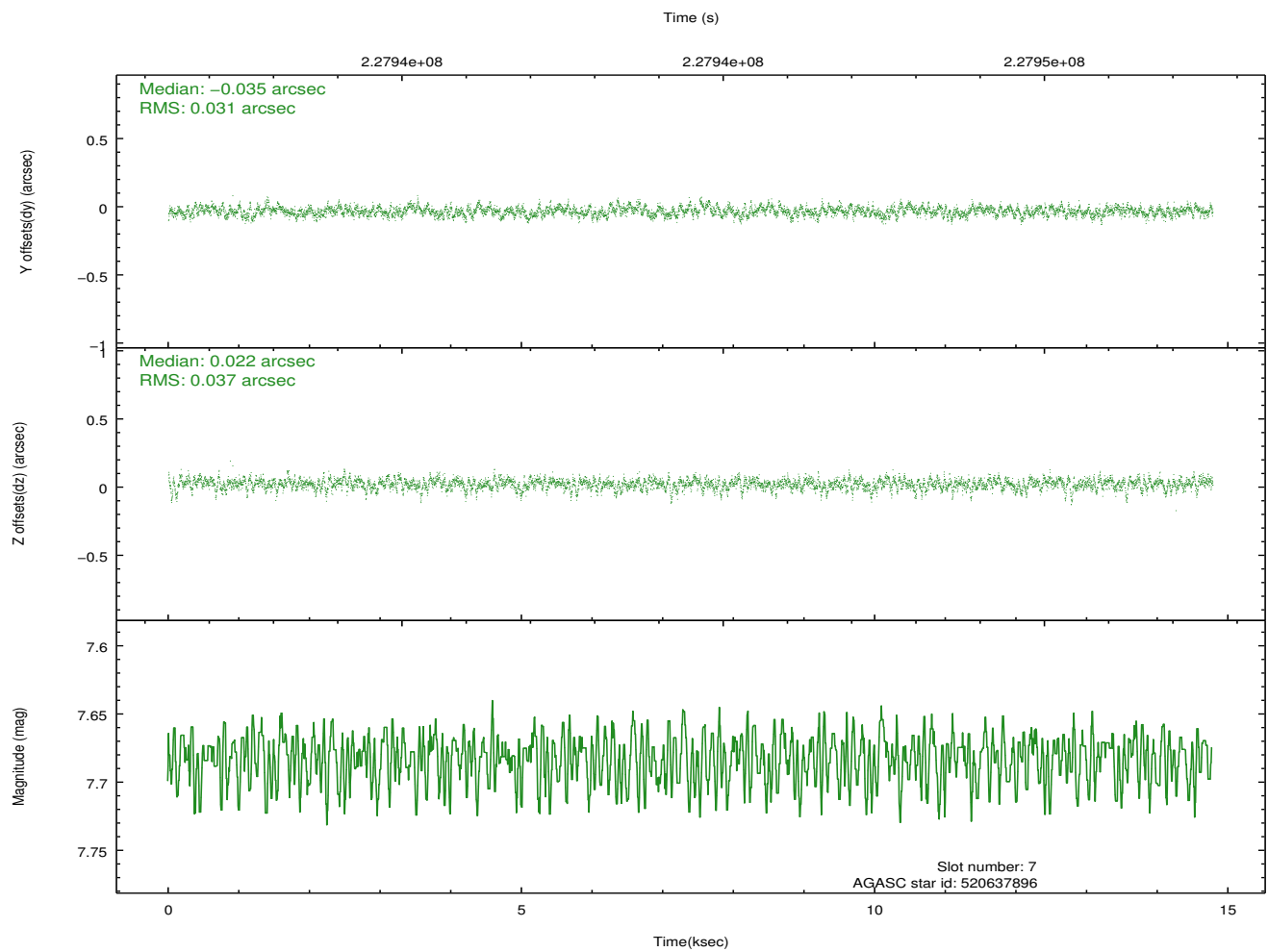
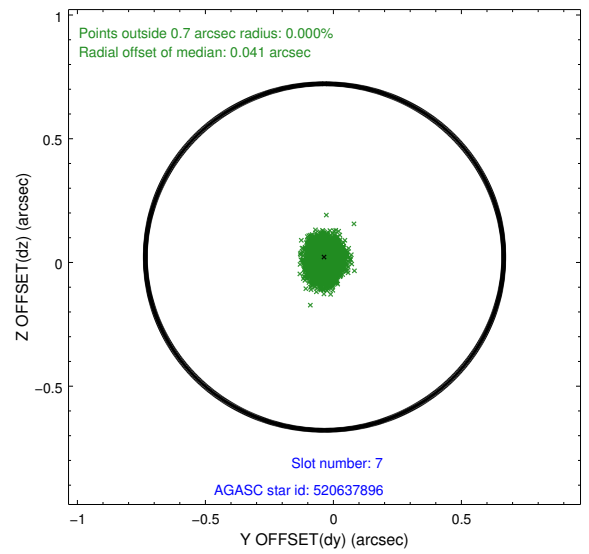
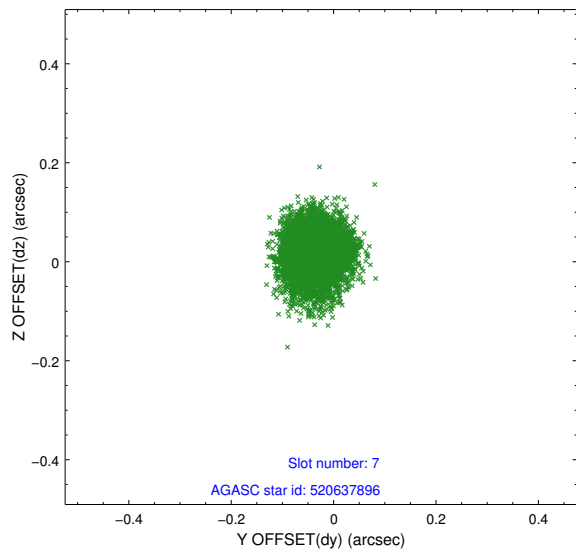
### 2.4.3 Slot 5



### 2.4.4 Slot 6

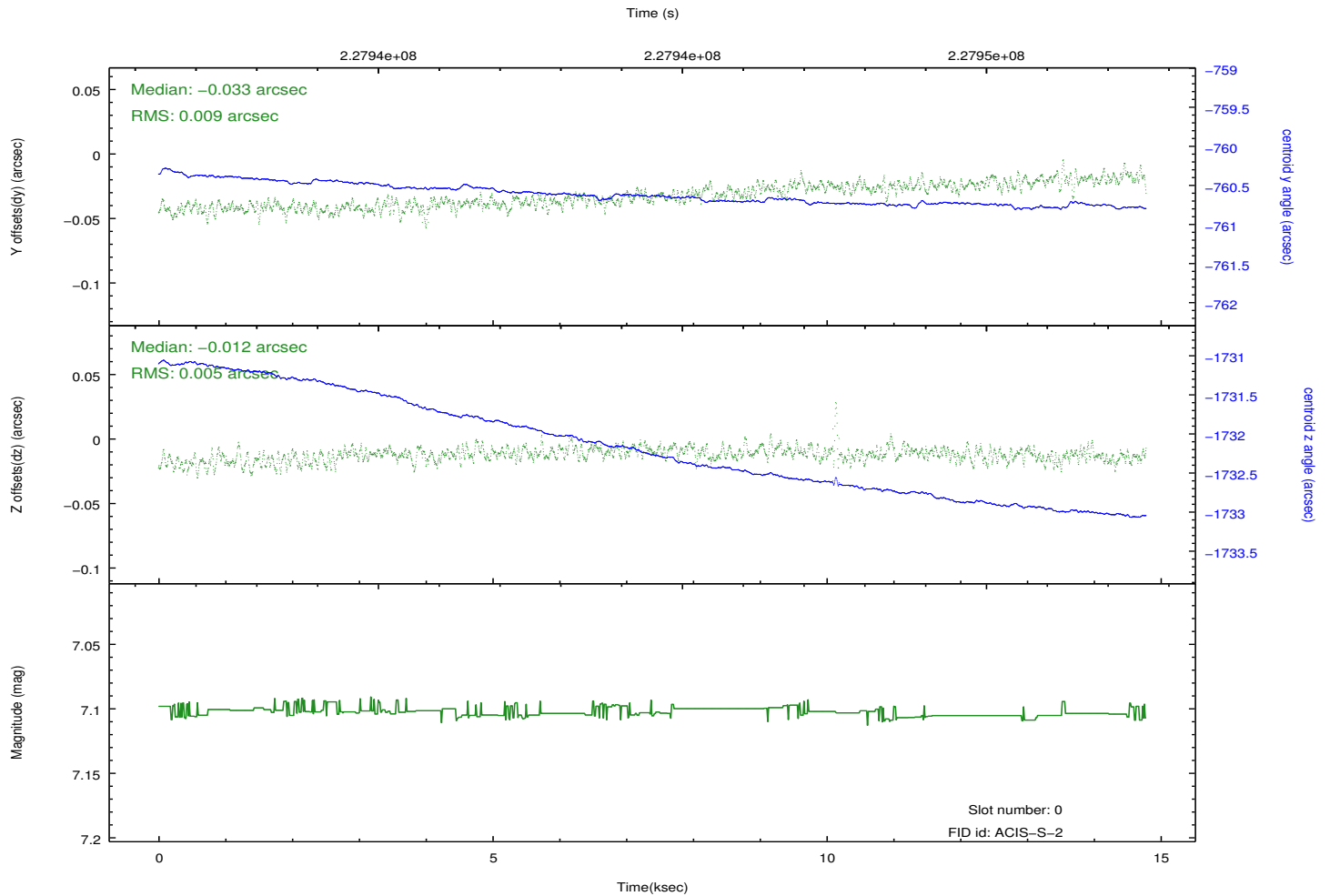
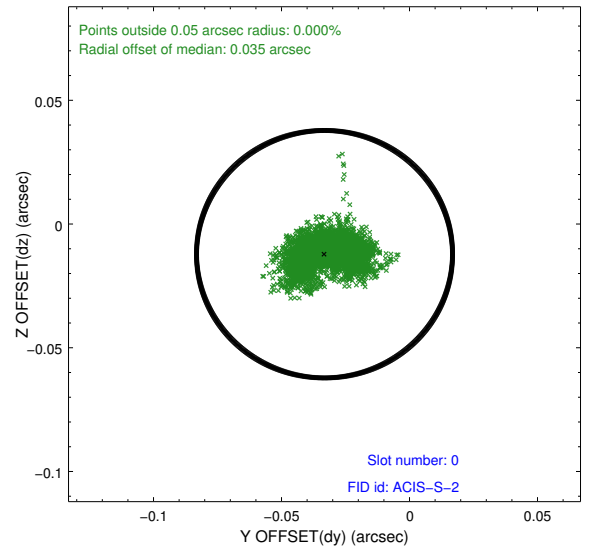
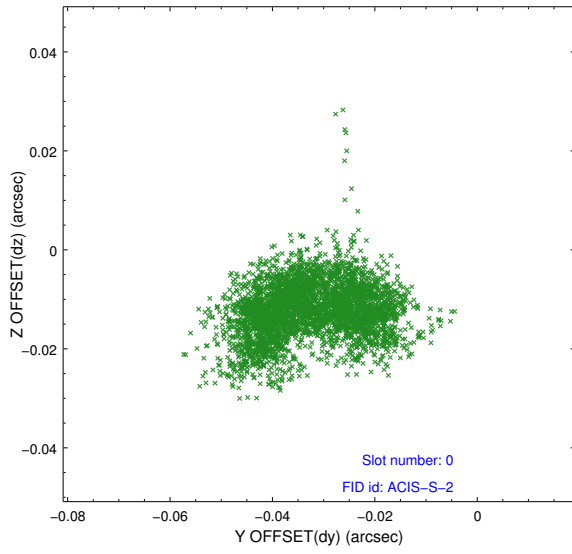


## 2.4.5 Slot 7

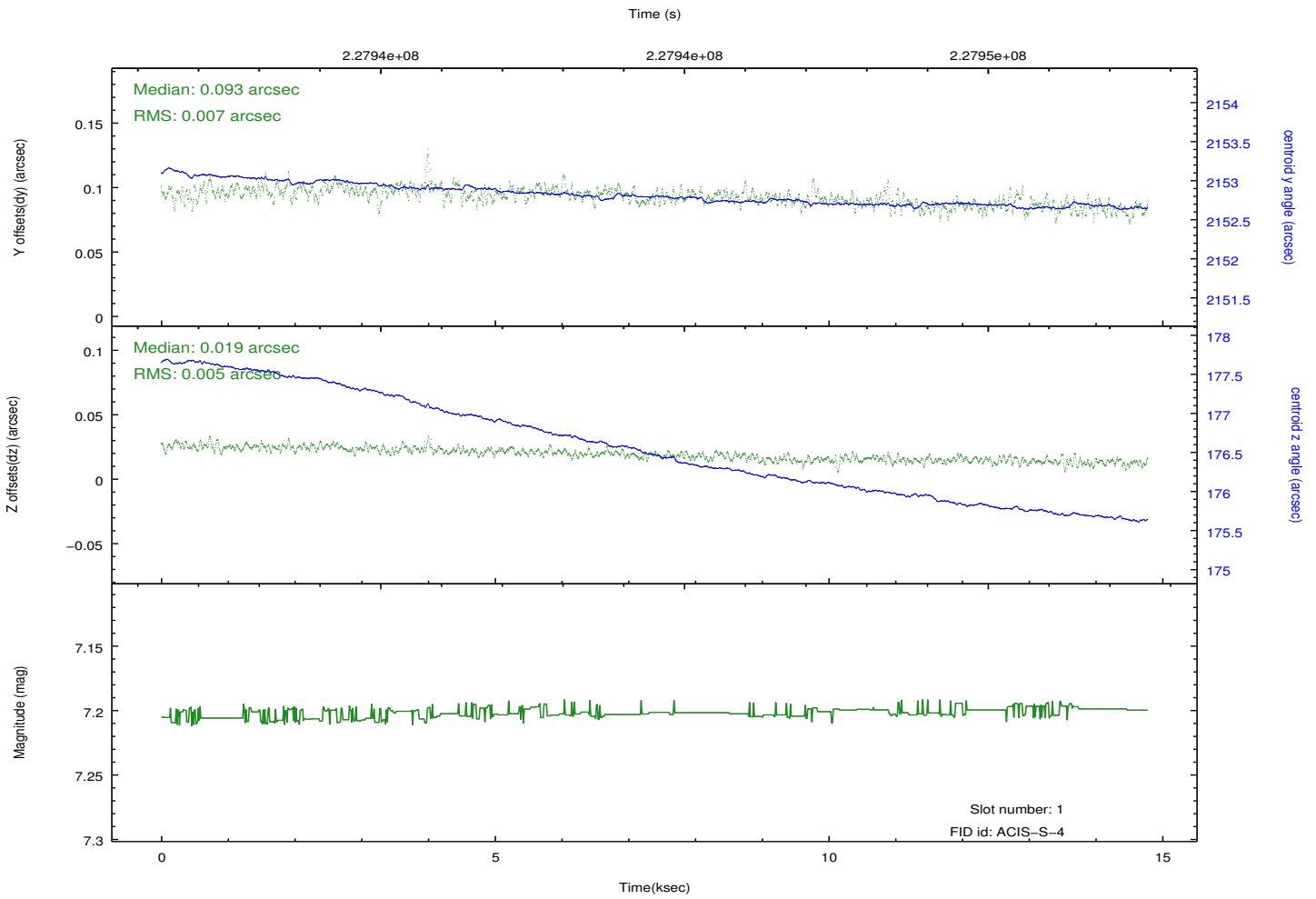
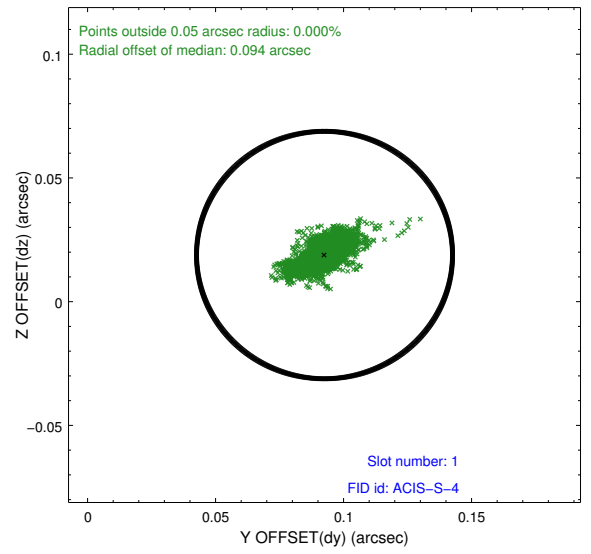
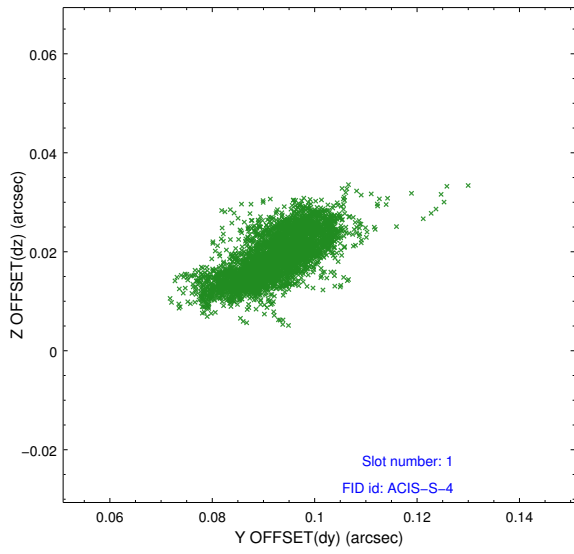


## 2.5 FID Slots

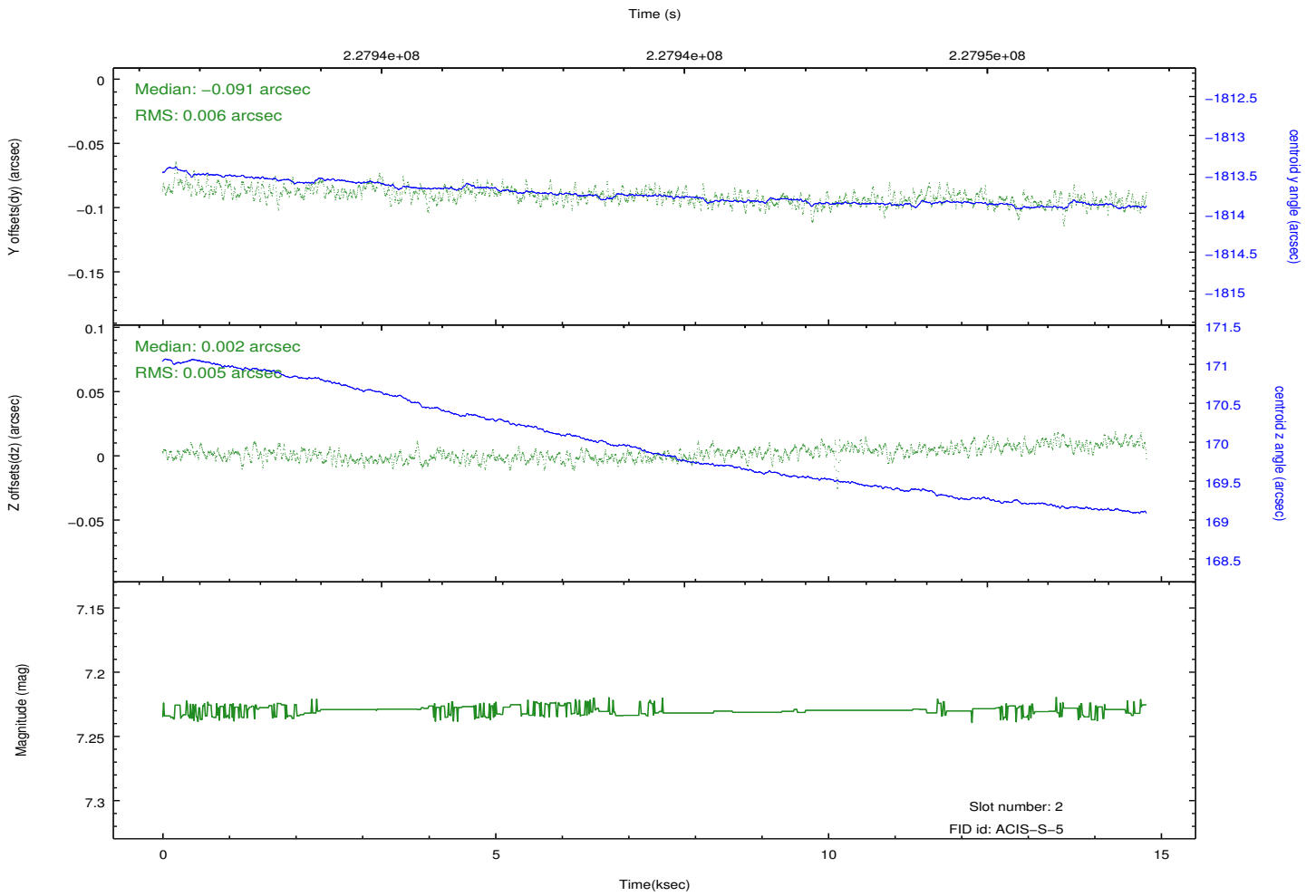
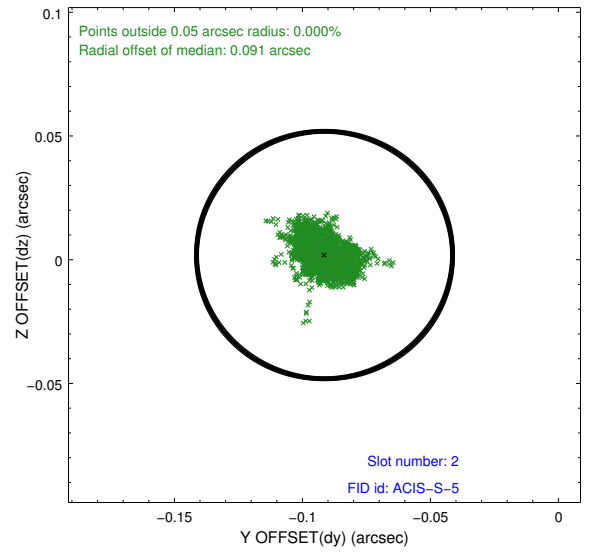
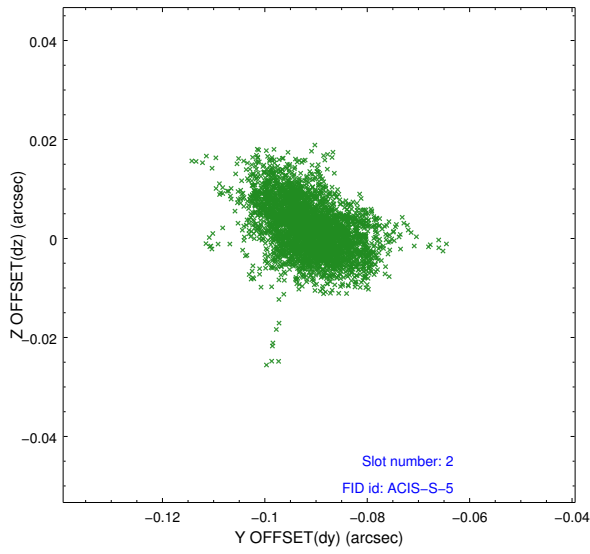
### 2.5.1 Slot 0



## 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)	2013.01.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	14.45759

## A.2 Comments