

# V&V Reference Report

## L2 ASCDS Version : 10.5.2

Observation 19745 - L2 Version 1  
Chandra X-Ray Center

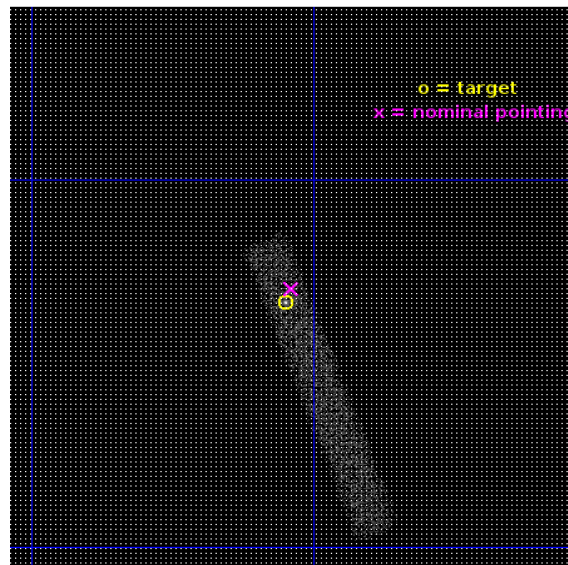
L2 Processing Date : Dec 15 2016

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# 1 Front

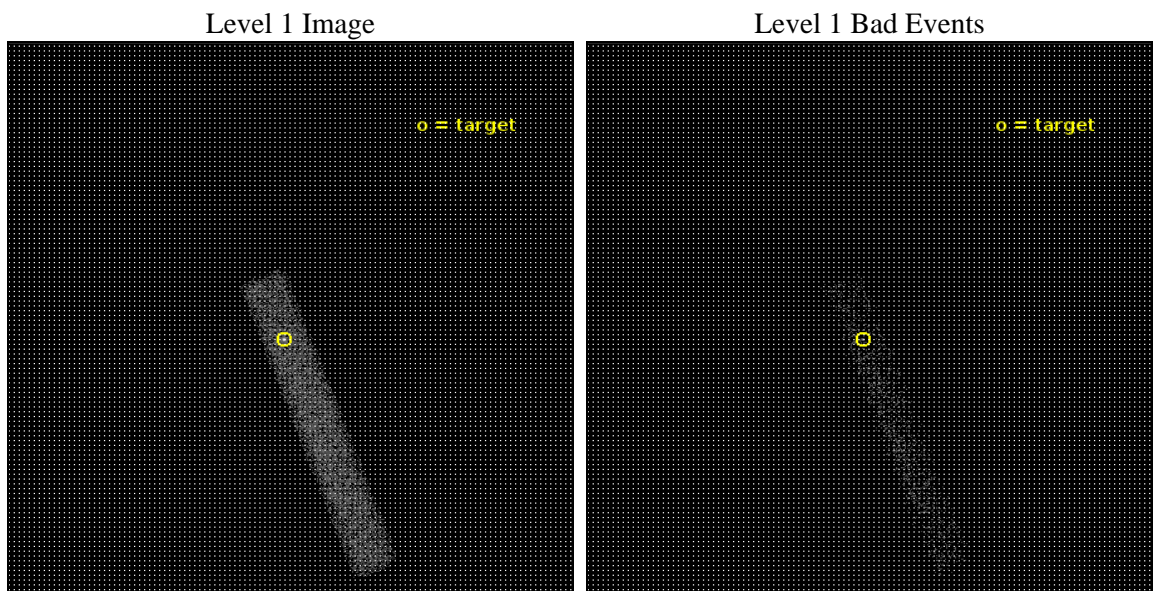
seq_num	703460	Sequence number
obs_id	19745	Observation id
title	X-ray spectrum and morphology of PG 1302-102	Proposal title
observer	Ralph Kraft	Principal investigator
object	PG 1302-102	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	196.3875	Observer's specified target RA [deg]
dec_targ	-10.555278	Observer's specified target Dec [deg]
ra_nom	196.38479757069	Nominal RA [deg]
dec_nom	-10.549318245683	Nominal Dec [deg]
roll_nom	69.294948839273	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10296.669234991	Sum of GTIs [s]
livetime	9338.5354933712	Livetime [s]
ontime7	10296.669234991	Sum of GTIs [s]
l2events	8791	Number of level 2 events



## 2 OBI

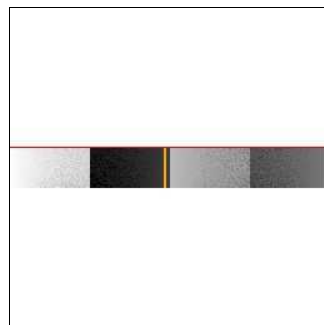
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10228.240000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	10296.669234991	Sum of GTIs [s]
caldsver	4.7.3	&#160	ontime7	10296.669234991	Sum of GTIs [s]
date	2016-12-15T12:44:16	Date and time of file creation	l1events	15644	Number of level 1 events
revision	1	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	15644
rejected events	6564
rejected %	41%

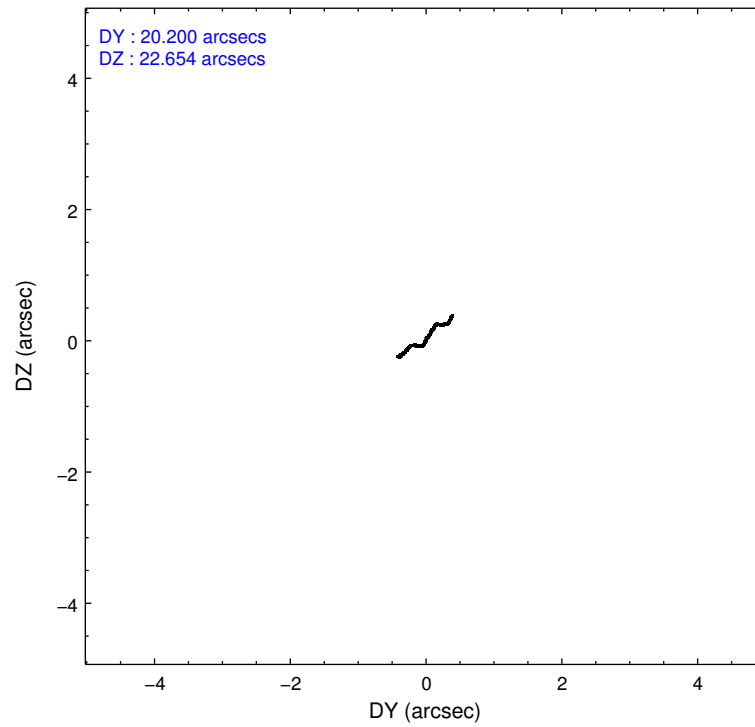
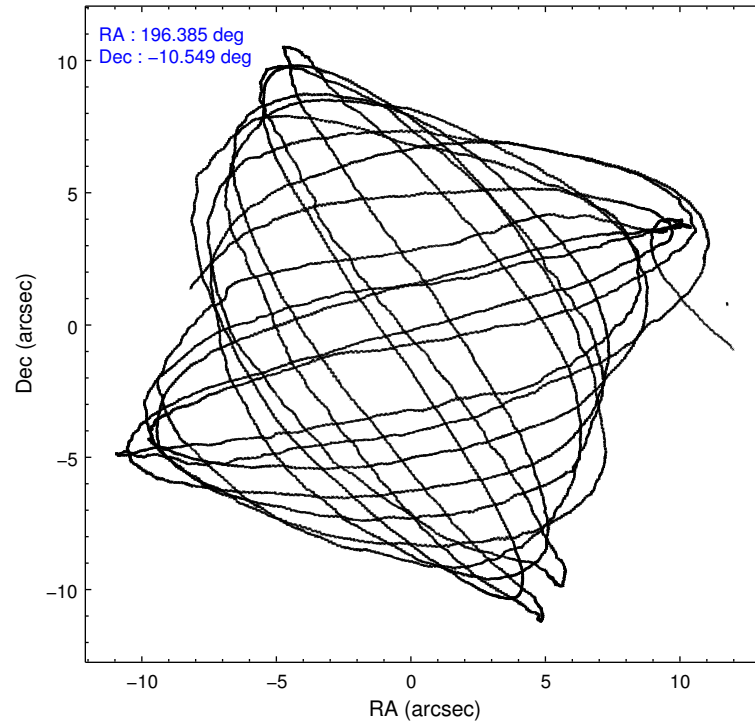
	<b>ccd 7</b>
grade 0 events	1437
	9%
grade 1 events	25
	0%
grade 2 events	1910
	12%
grade 3 events	1172
	7%
grade 4 events	1071
	6%
grade 5 events	1310
	8%
grade 6 events	3491
	22%
grade 7 events	5228
	33%

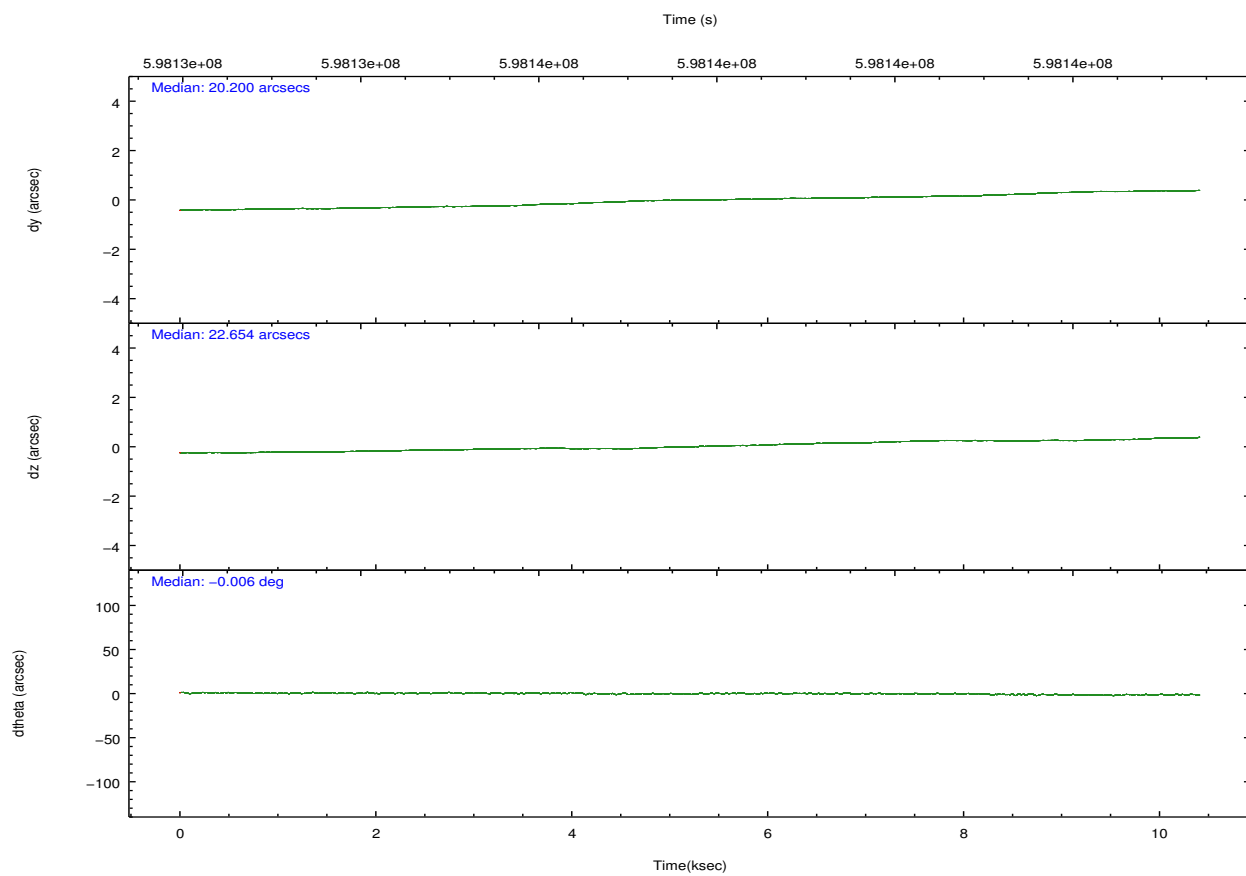
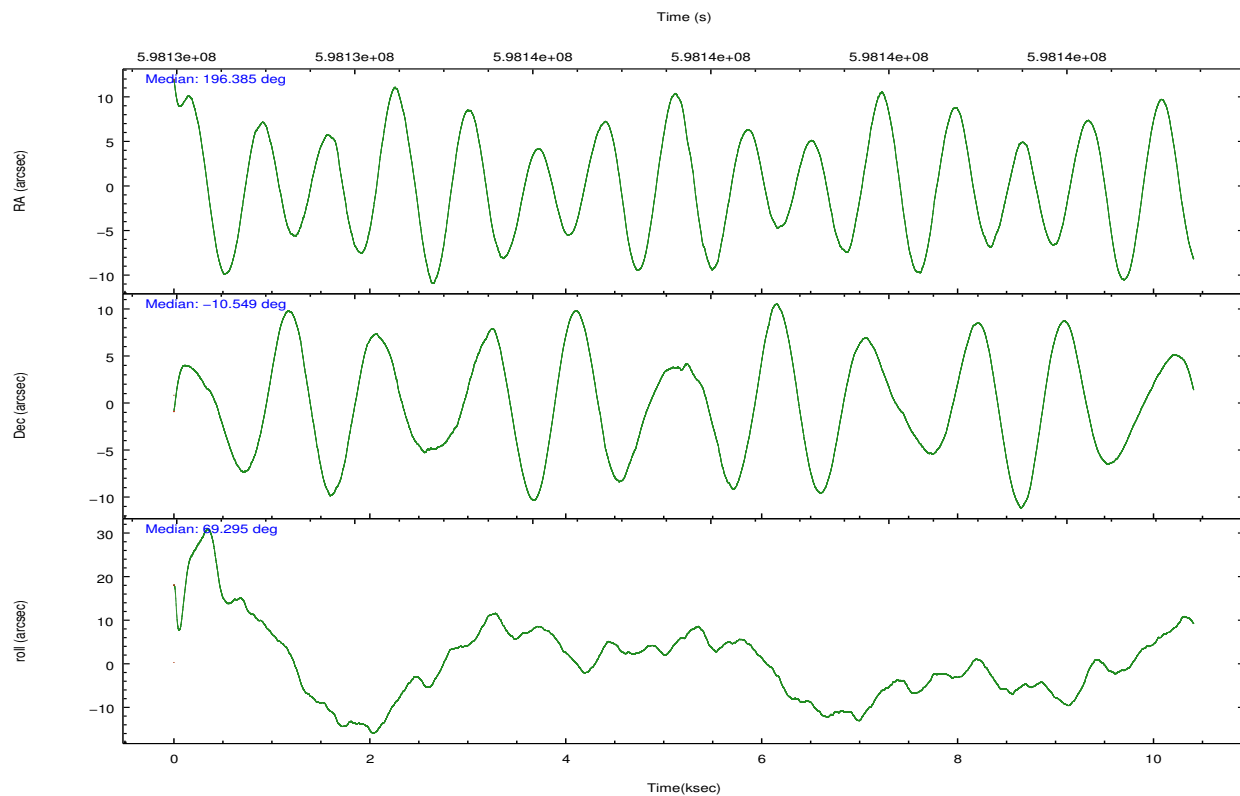


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	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	196.389615	196.3847975706904	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-10.576393	-10.54931824568297	Subarray start row	449	449
[deg] Pointing Roll	69.139233	69.29494883927302	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	598132688.184000	598131951.92756			
Observation start date	2016-12-14T19:57:00	2016-12-14T19:45:51			
[s] Observation end time (MET)	598142916.184000	598143139.29071			
Observation end date	2016-12-14T22:47:28	2016-12-14T22:52:19			
Read mode	TIMED	TIMED			

## 2.3 Aspect



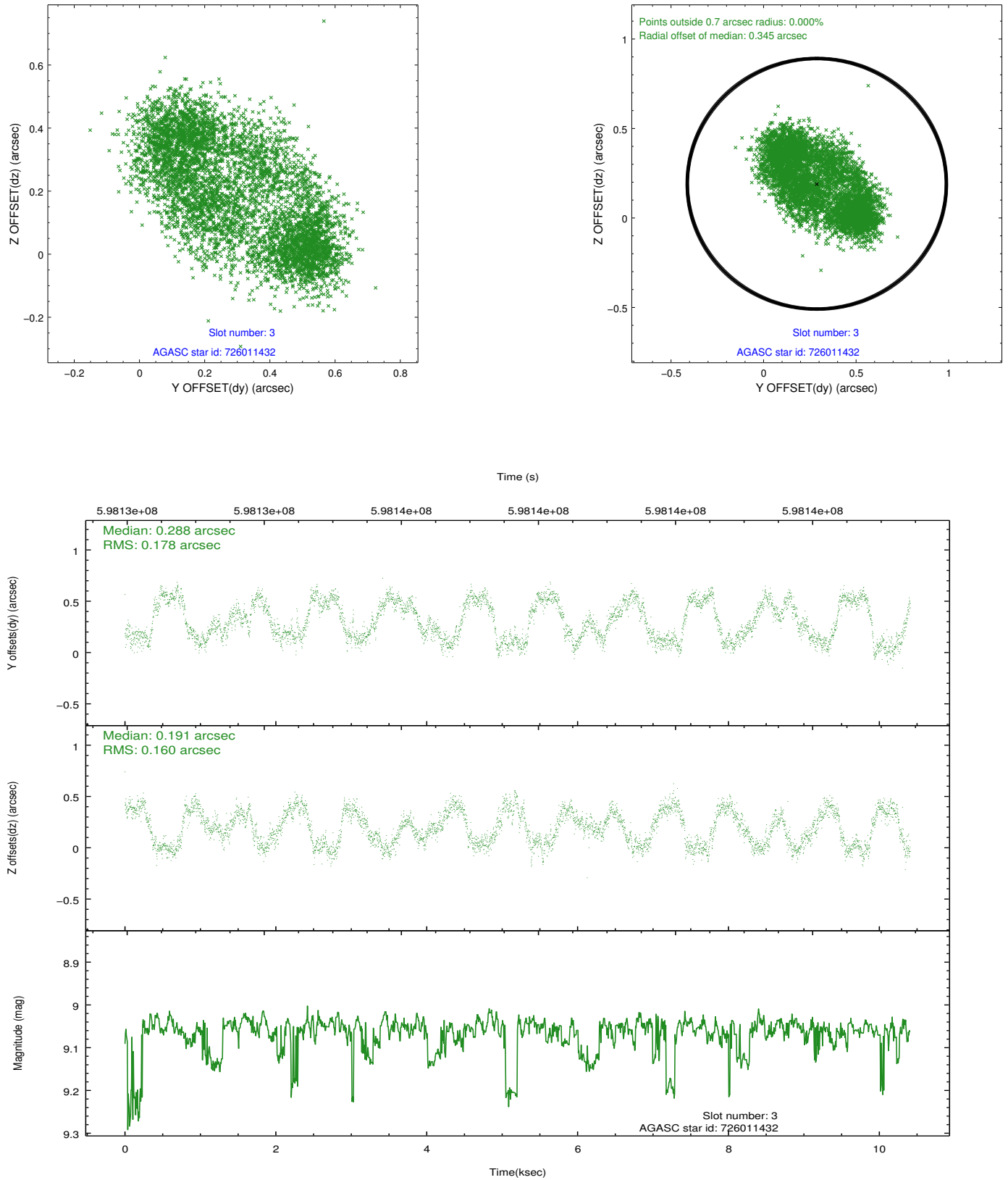


### Slot Statistics

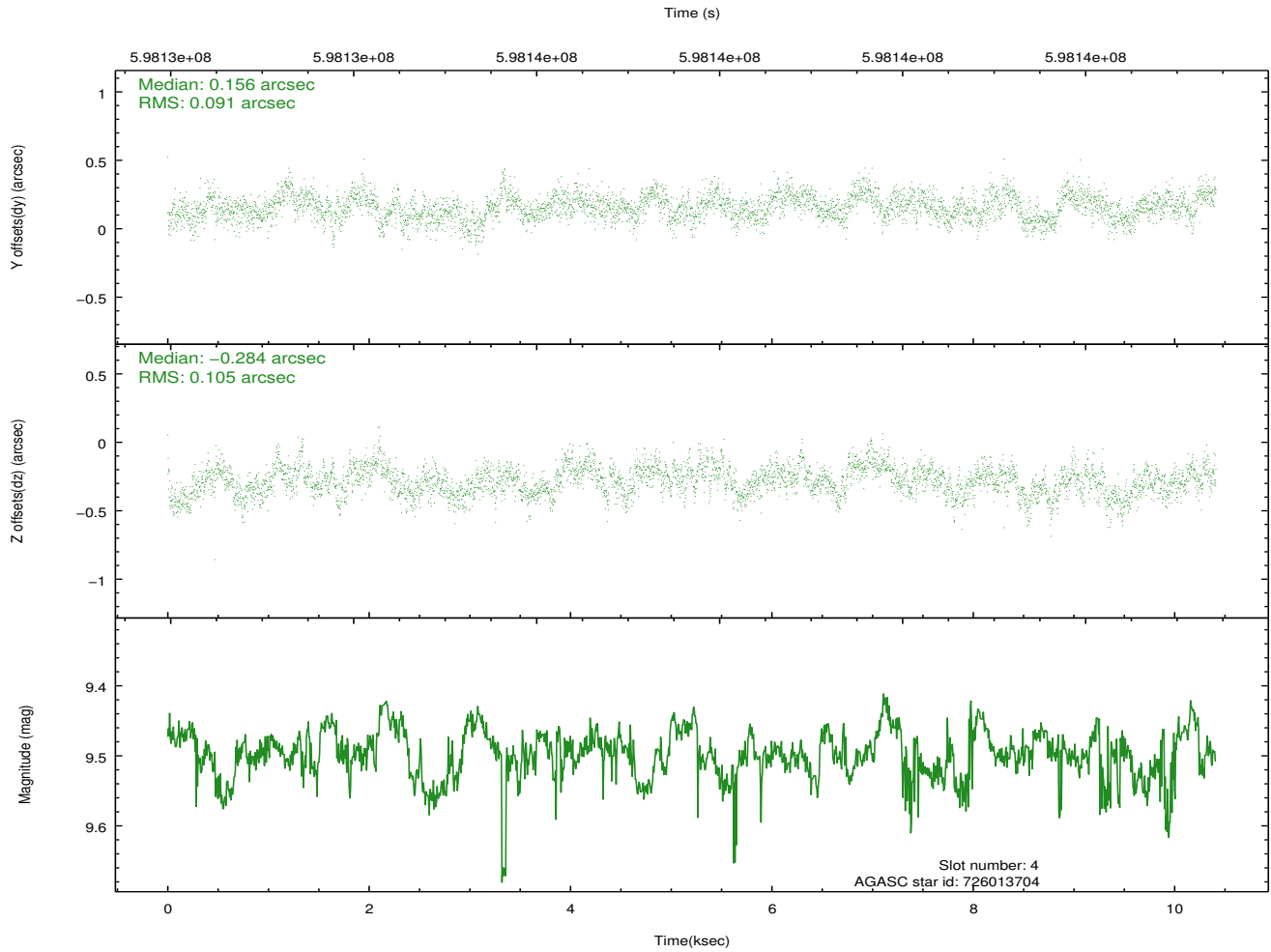
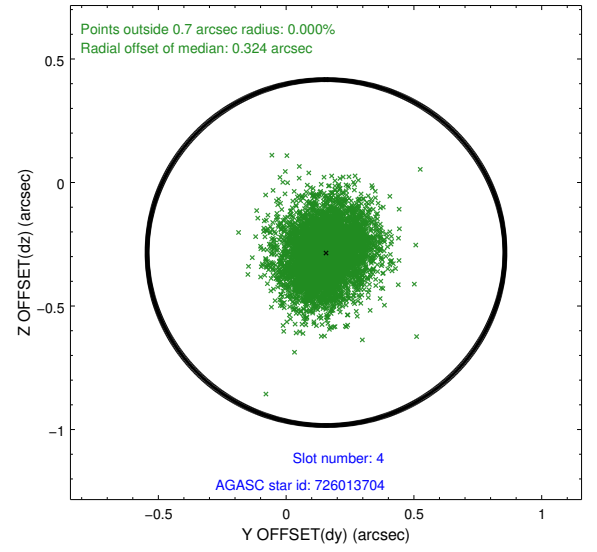
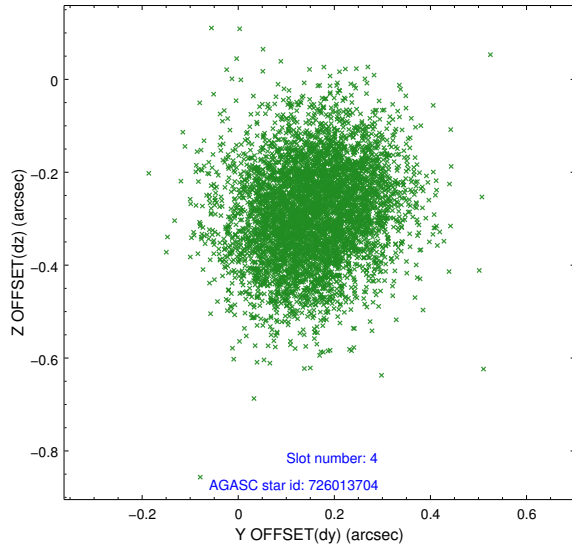
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.11	2539	0.108	-0.020	0.014	0.022	0.000000	0.000000	922.89	-1739.86
1	FID		ACIS-S-5	7.14	2540	-0.290	0.049	0.013	0.021	0.000000	0.000000	-1826.25	157.21
2	FID		ACIS-S-6	7.28	2540	0.160	-0.017	0.009	0.015	0.000000	0.000000	387.92	801.70
3	GUIDE	used	726011432	9.06	5074	0.288	0.191	0.271	0.363	196.510178	-11.028089	-1367.54	-976.59
4	GUIDE	used	726013704	9.50	5074	0.156	-0.284	0.148	0.239	195.983528	-10.966605	-1824.37	840.36
5	GUIDE	used	726016536	10.10	5043	-0.188	-0.417	0.322	0.522	196.370175	-10.114687	1527.87	656.63
6	GUIDE	used	726149144	9.47	5071	-0.160	-0.027	0.216	0.343	196.621344	-10.461782	677.41	-616.92
7	GUIDE	used	726148408	9.49	5071	-0.142	0.512	0.189	0.307	197.106233	-10.565839	936.28	-2356.74

## 2.4 Star Slots

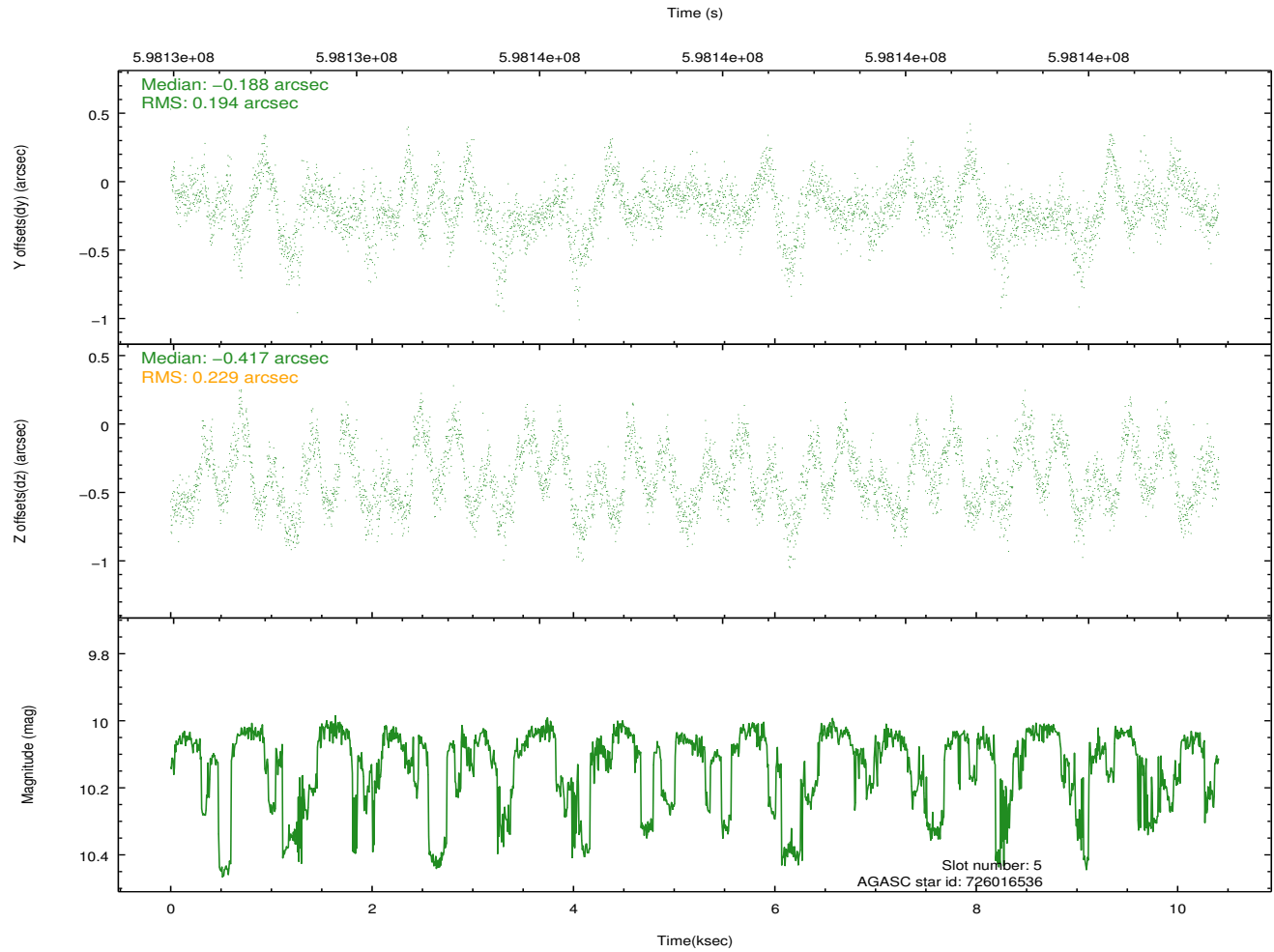
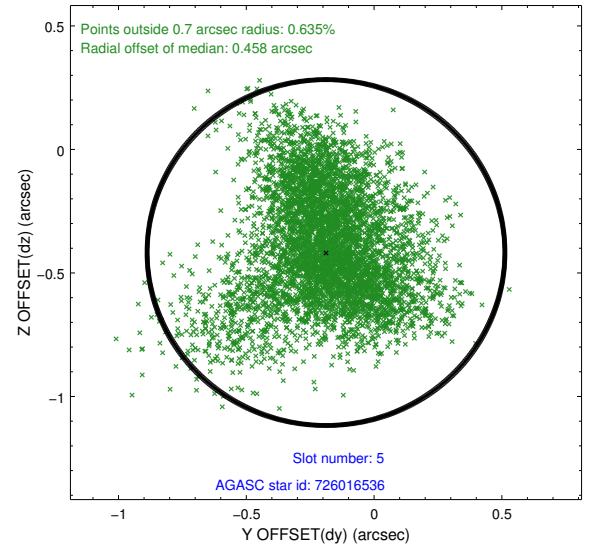
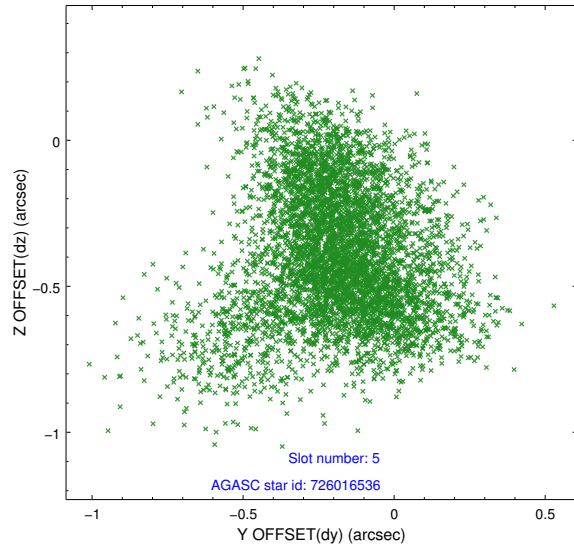
### 2.4.1 Slot 3



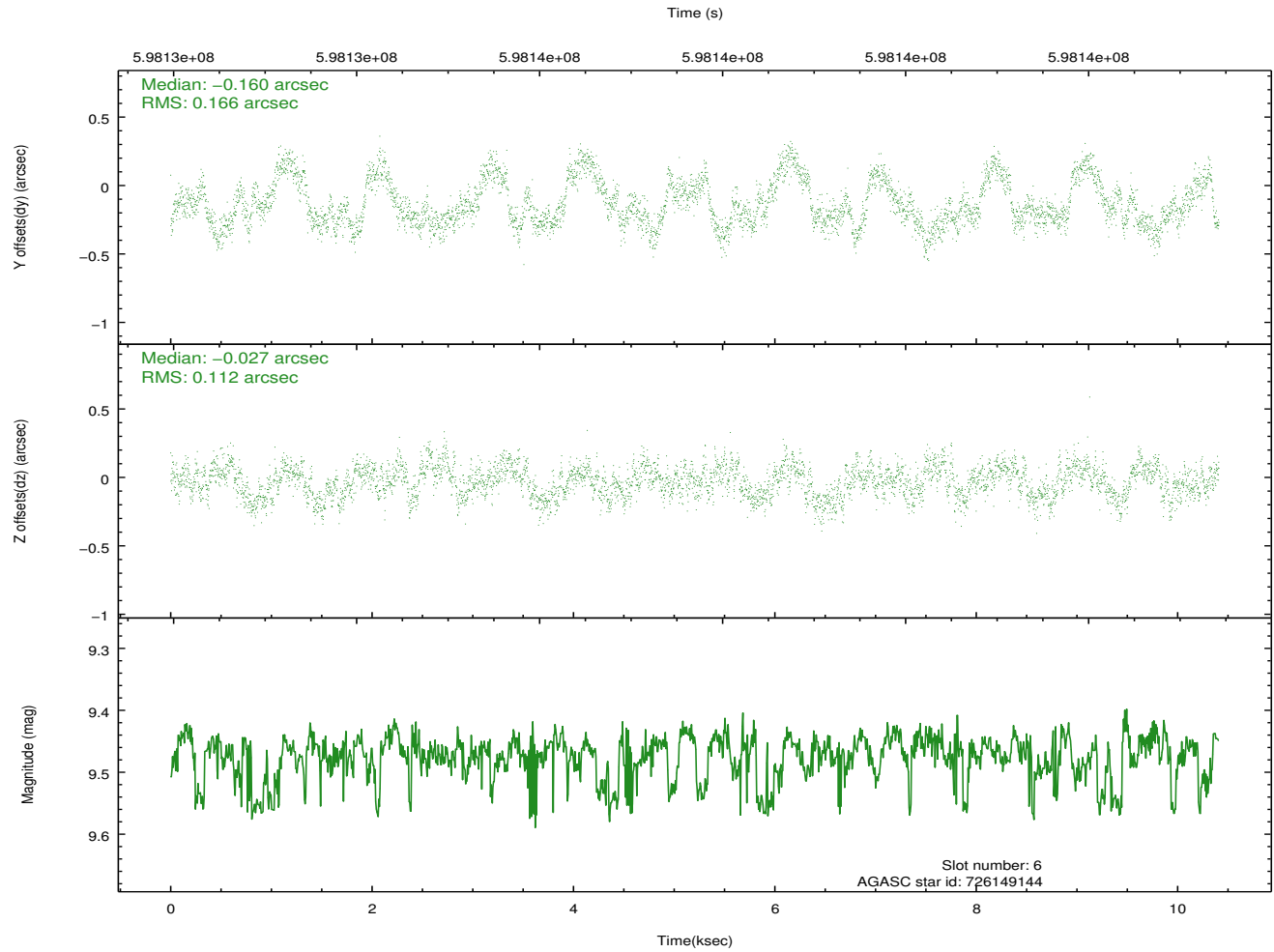
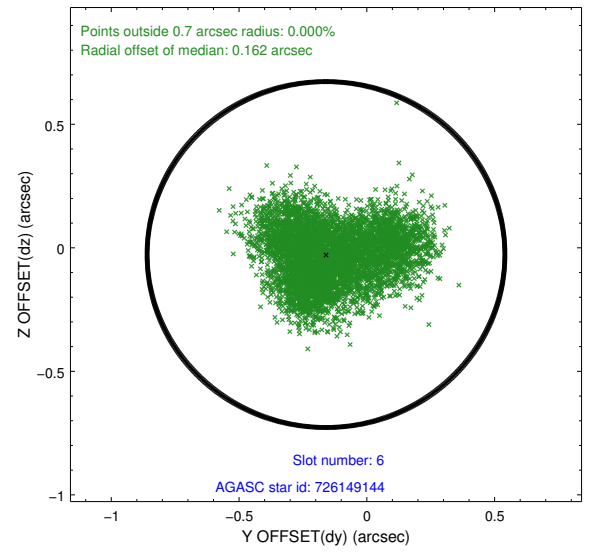
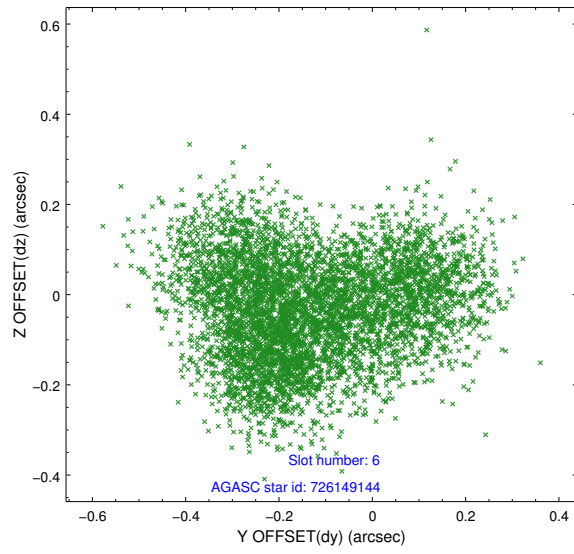
## 2.4.2 Slot 4



### 2.4.3 Slot 5

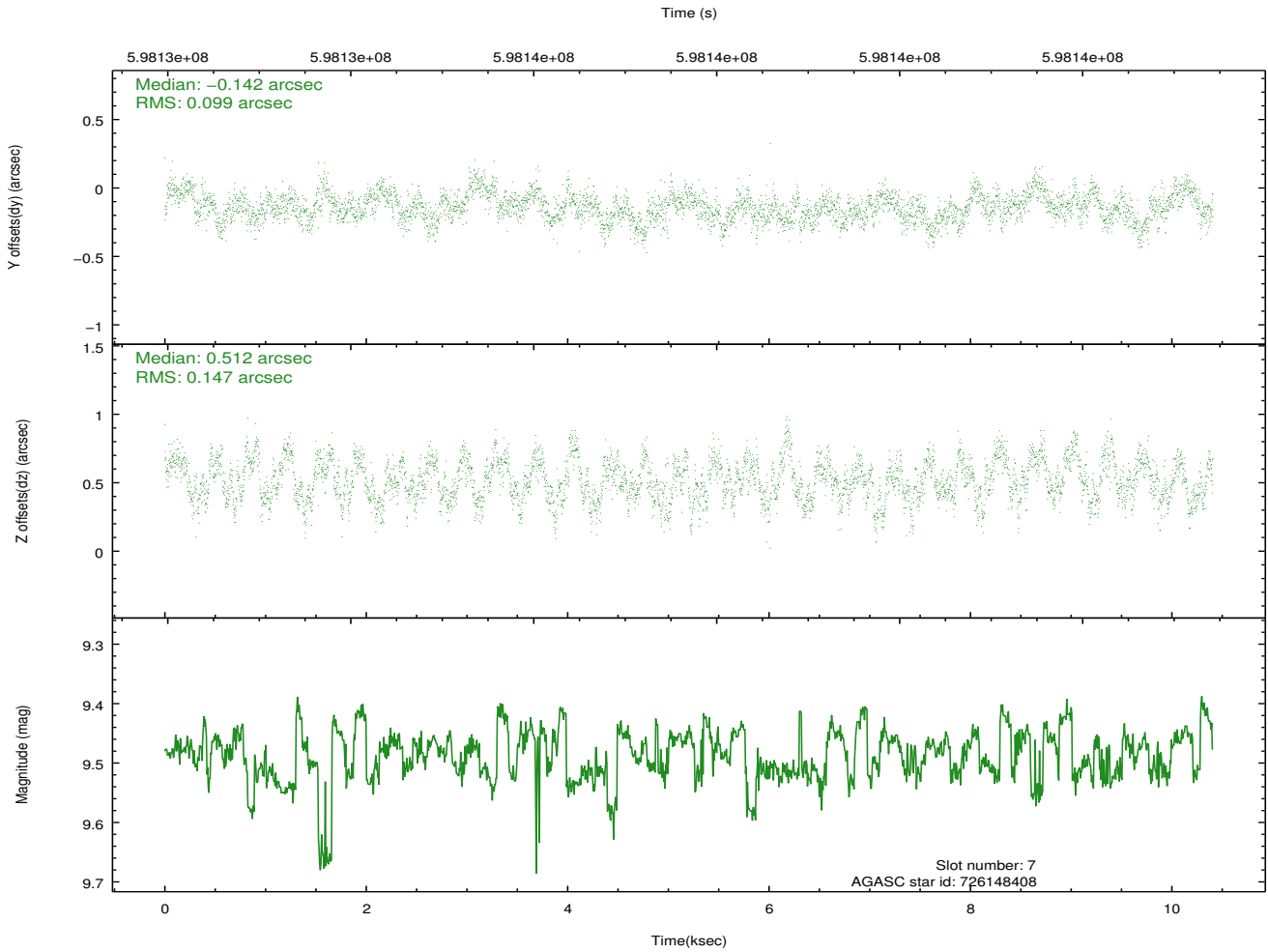
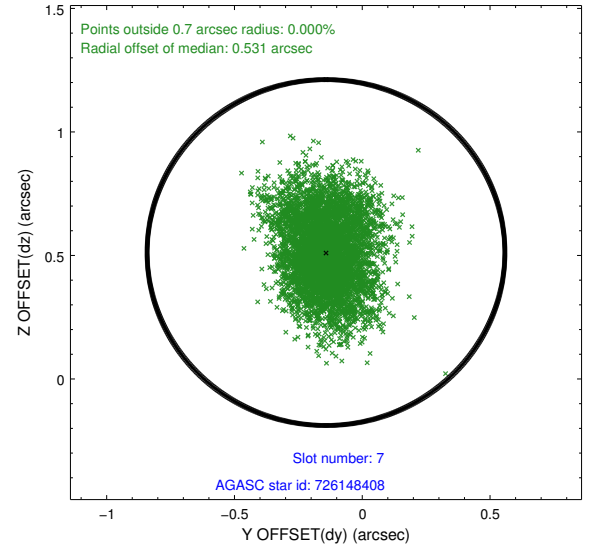
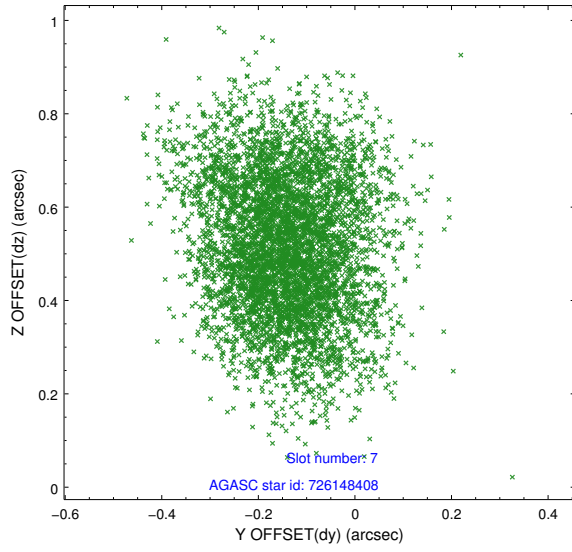


## 2.4.4 Slot 6



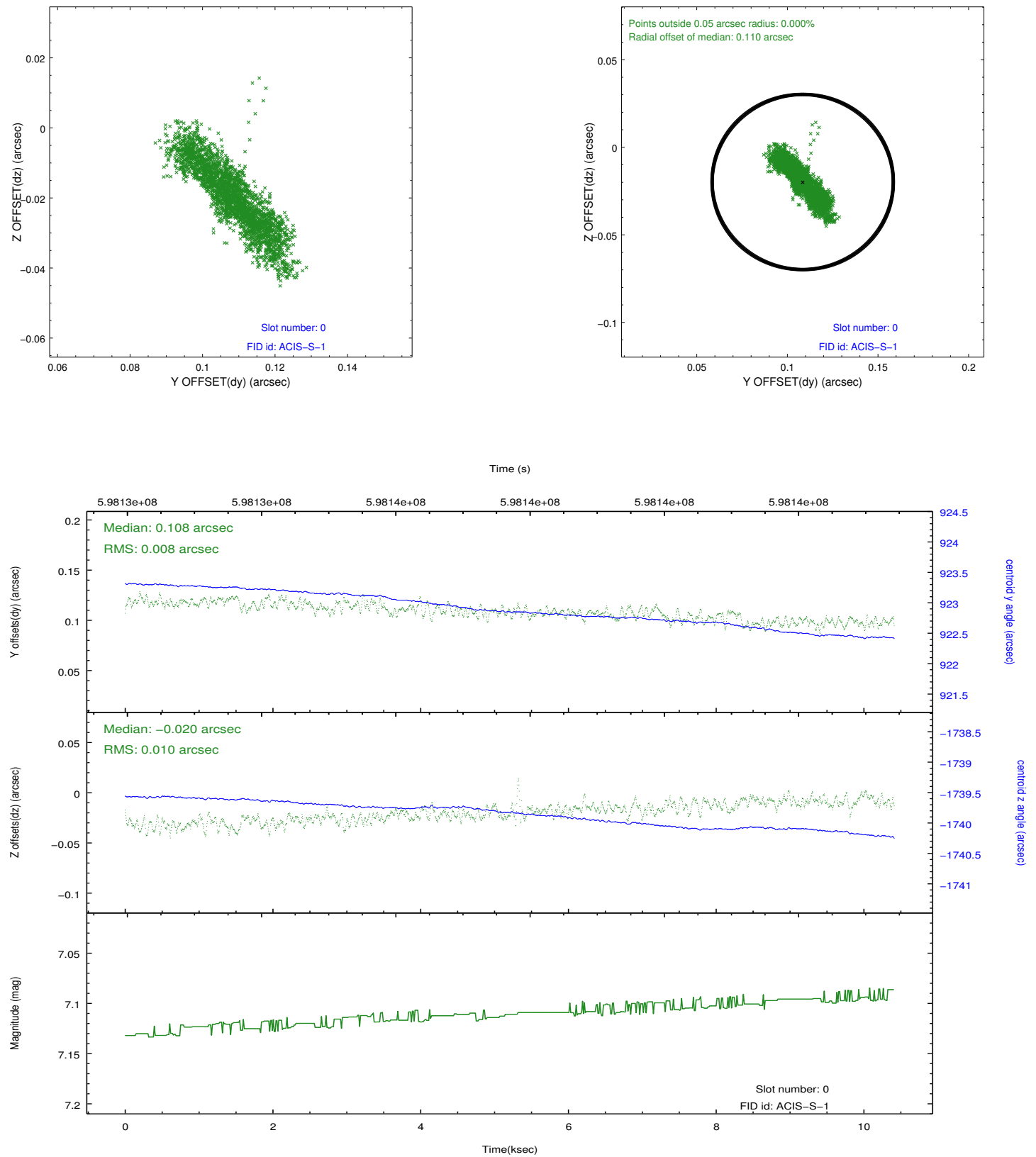


## 2.4.5 Slot 7

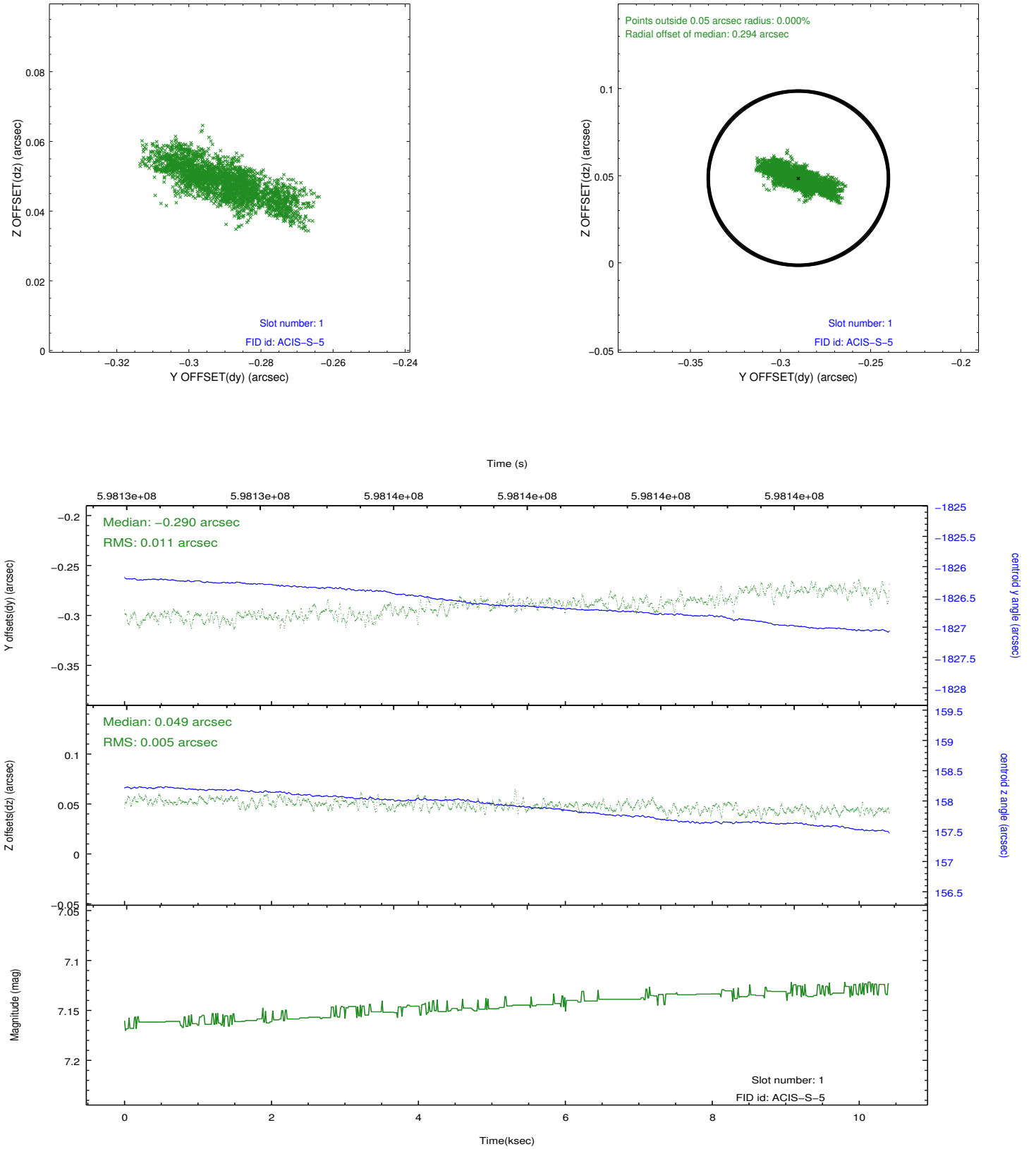


## 2.5 FID Slots

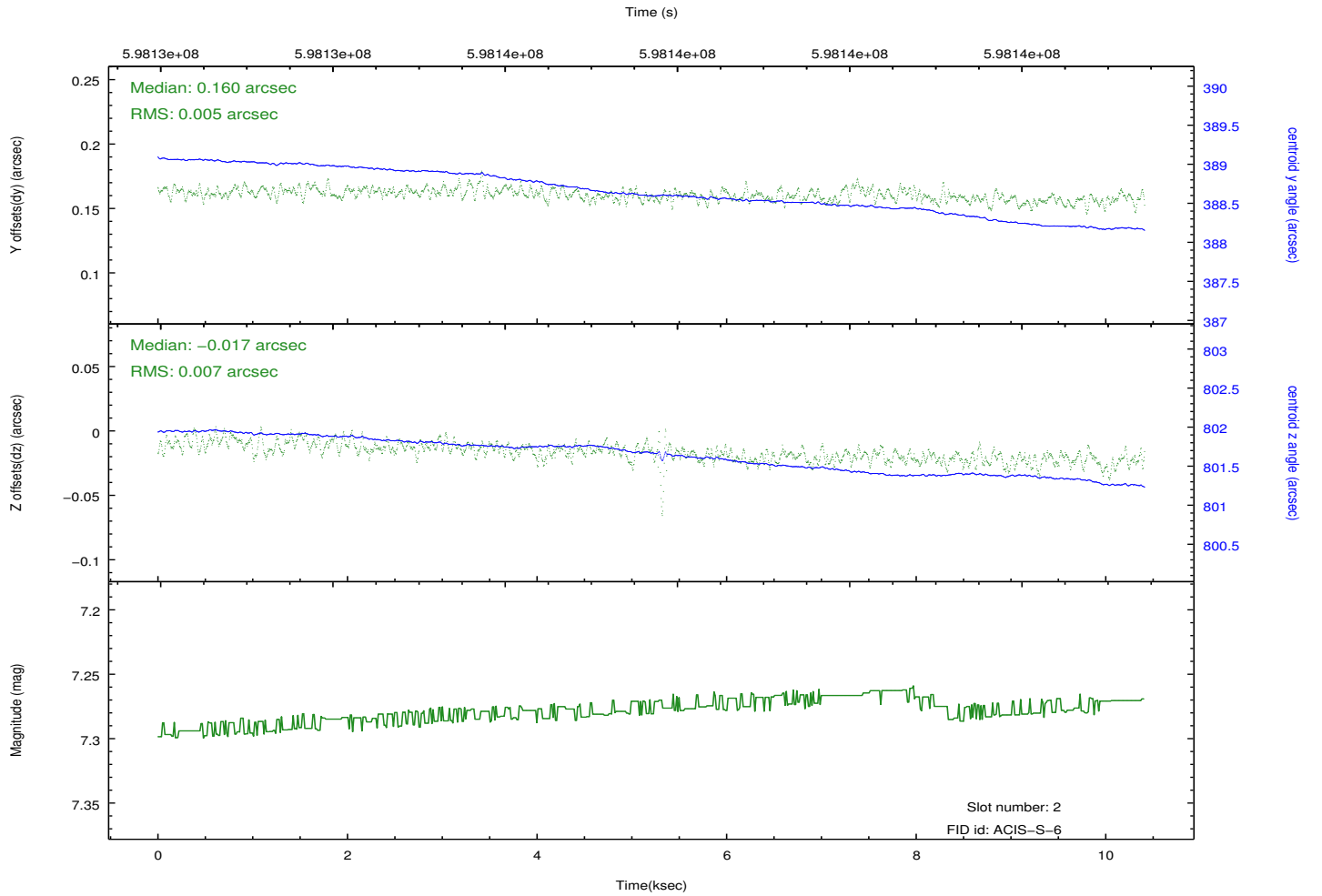
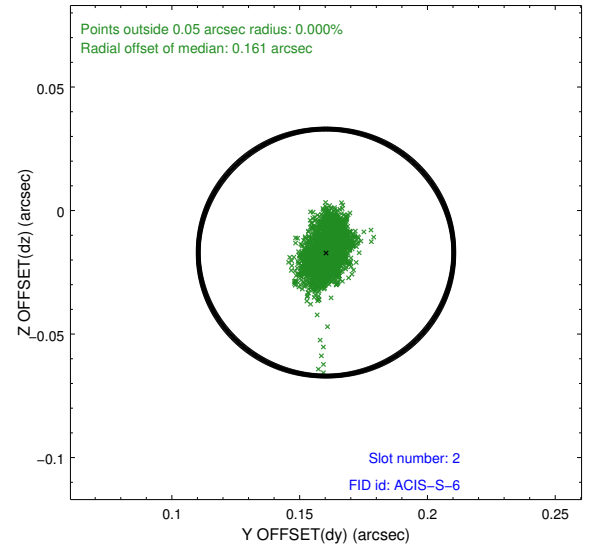
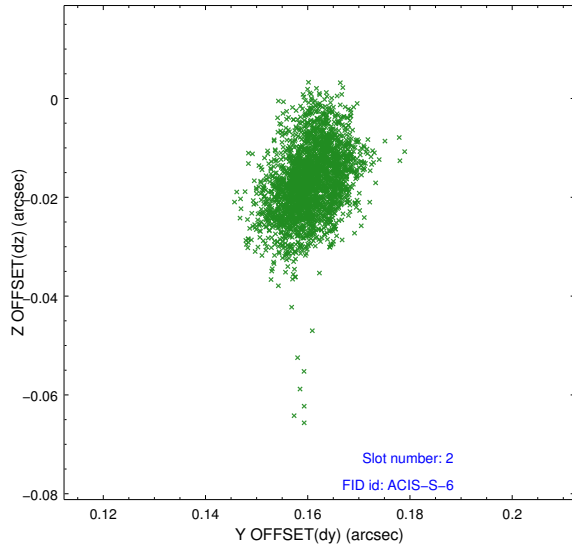
### 2.5.1 Slot 0



## 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)	2016.12.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.296669234991

### **A.2 Comments**