

# V&V Reference Report

## L2 ASCDS Version : 10.3.3

Observation 17594 - L2 Version 1  
Chandra X-Ray Center

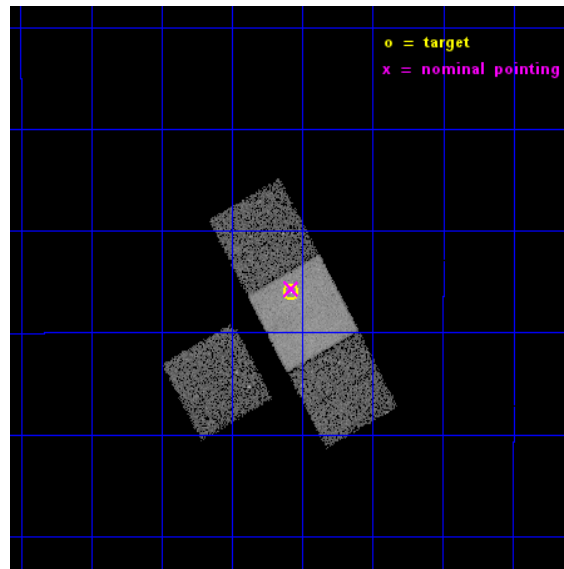
L2 Processing Date : Feb 10 2015

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# 1 Front

seq_num	703154	Sequence number
obs_id	17594	Observation id
title	A second look for variability in the exceptional Swift J123205.1-1056	Proposal title
observer	PROF ANDREW LEVAN	Principal investigator
object	Swift J123205.1-1056	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	188.020417	Observer's specified target RA [deg]
dec_targ	-10.933556	Observer's specified target Dec [deg]
ra_nom	188.01943644151	Nominal RA [deg]
dec_nom	-10.928190230569	Nominal Dec [deg]
roll_nom	61.164430427942	Nominal Roll [deg]
revision	1	Processing version of data
ontime	15058.837465763	Sum of GTIs [s]
livetime	14862.082668118	Livetime [s]
ontime3	15058.755385756	Sum of GTIs [s]
ontime6	15058.796425819	Sum of GTIs [s]
ontime7	15058.837465763	Sum of GTIs [s]
ontime8	15052.432164907	Sum of GTIs [s]
l2events	71310	Number of level 2 events

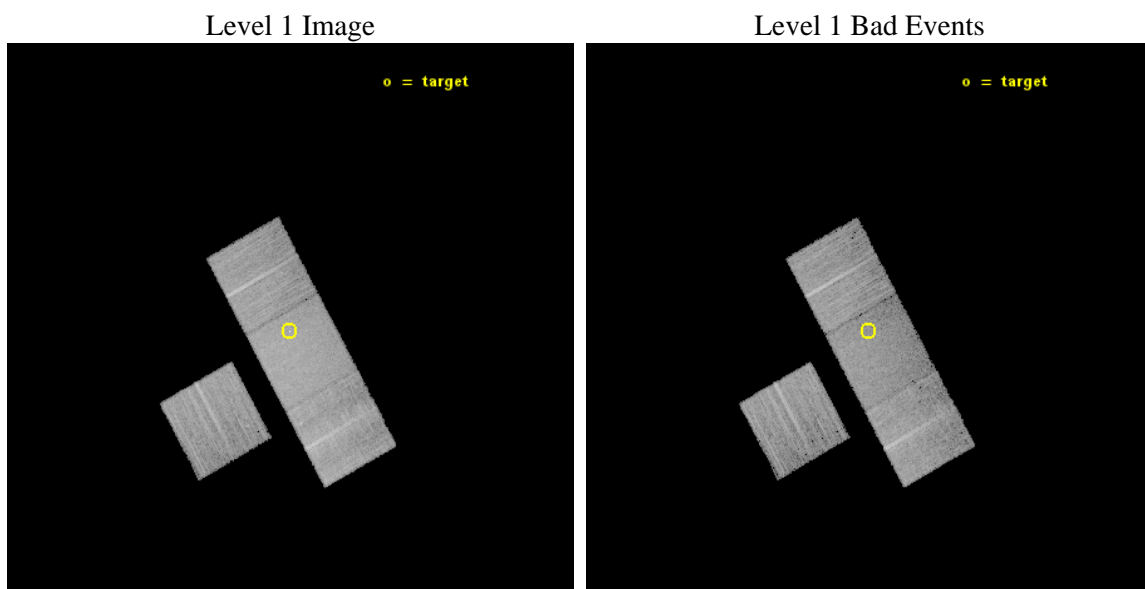




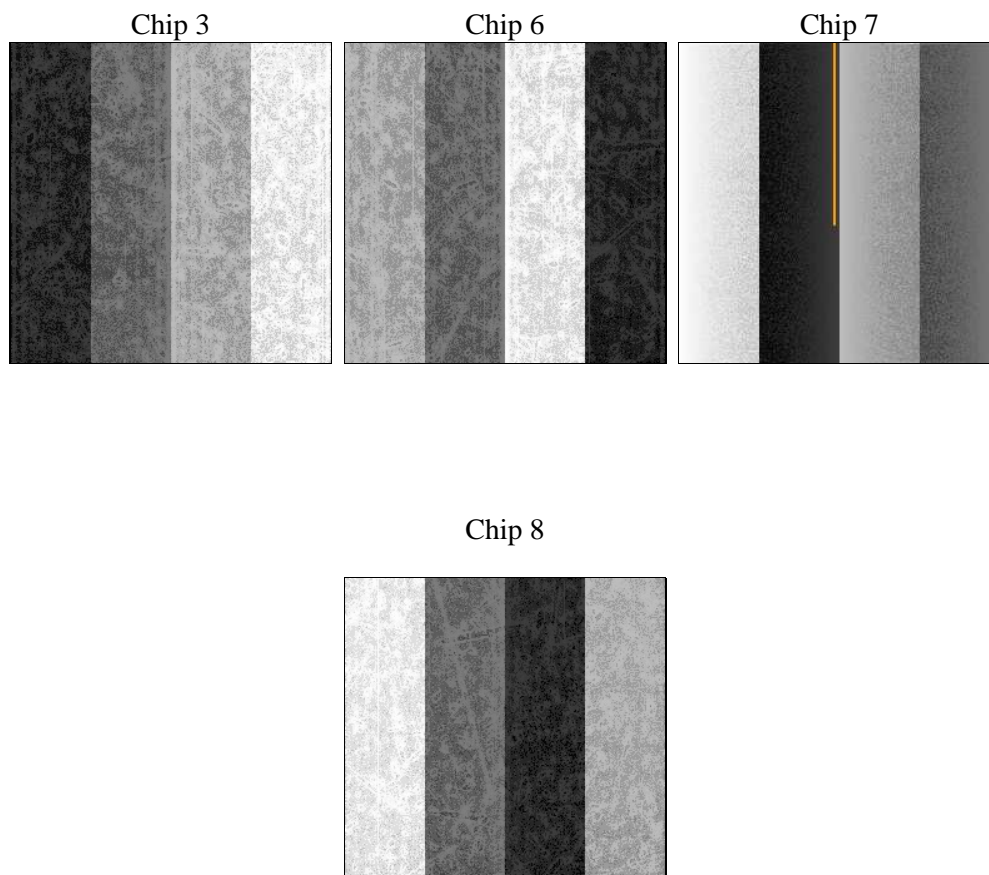
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	15058.837465763	Sum of GTIs [s]
caldsver	4.6.6	&#160	ontime3	15058.755385756	Sum of GTIs [s]
date	2015-02-10T15:52:41	Date and time of file creation	ontime6	15058.796425819	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	15058.837465763	Sum of GTIs [s]
			ontime8	15052.432164907	Sum of GTIs [s]
			l1events	370863	Number of level 1 events

### 2.1.4 Events

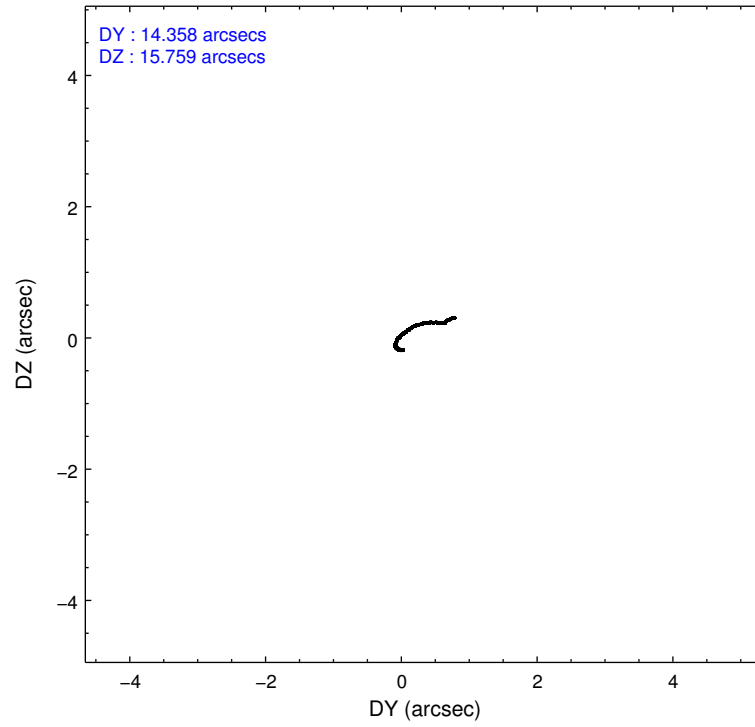
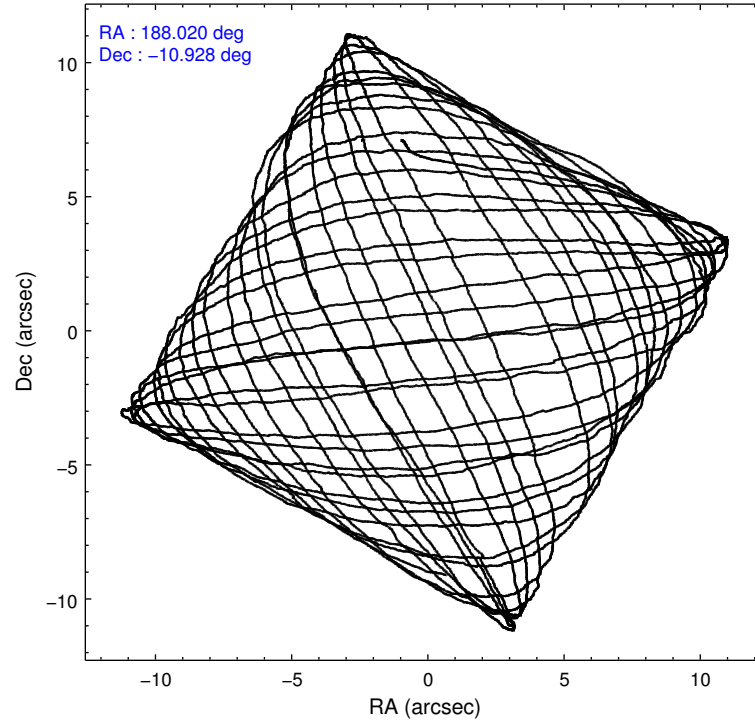
	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	78896	83354	107438	101175
rejected events	70296	73981	59947	76375
rejected %	89%	88%	55%	75%

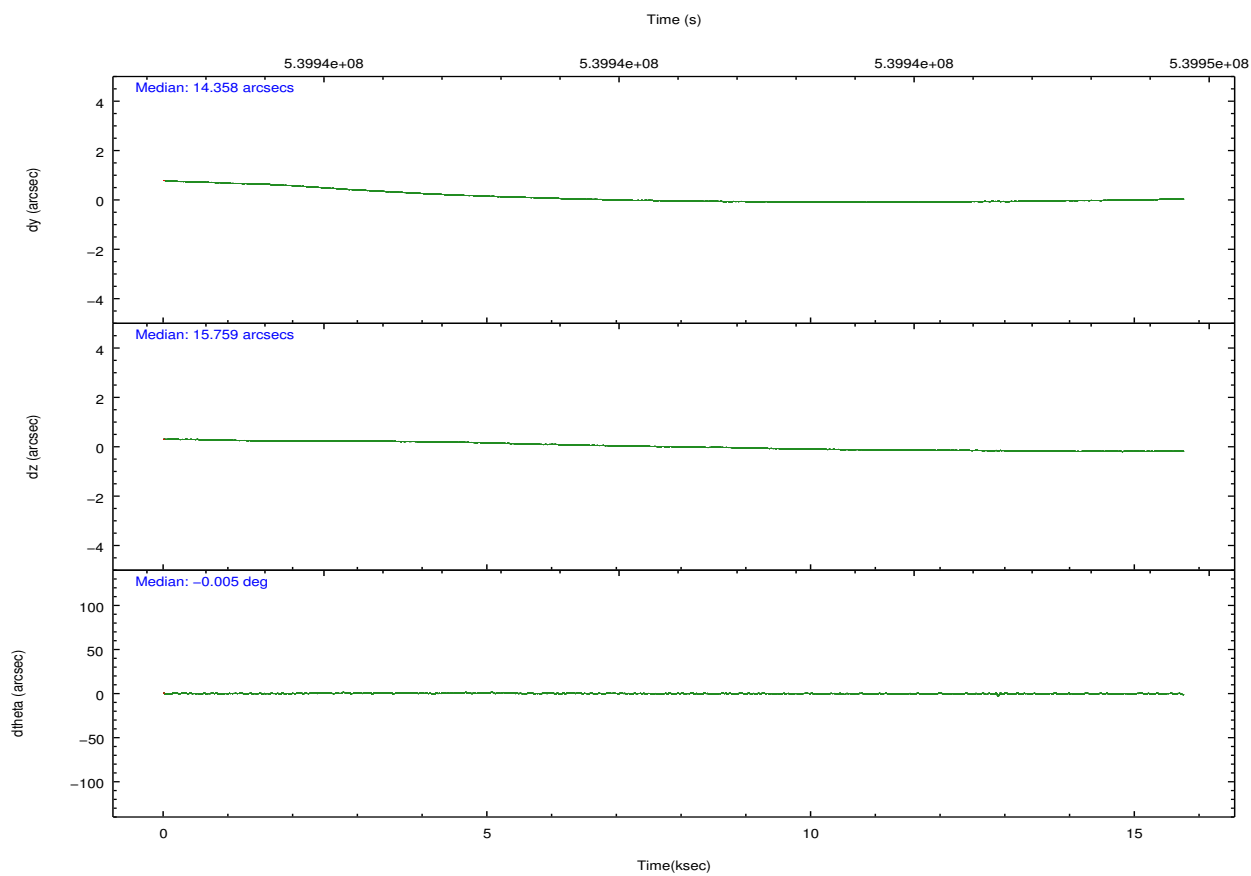
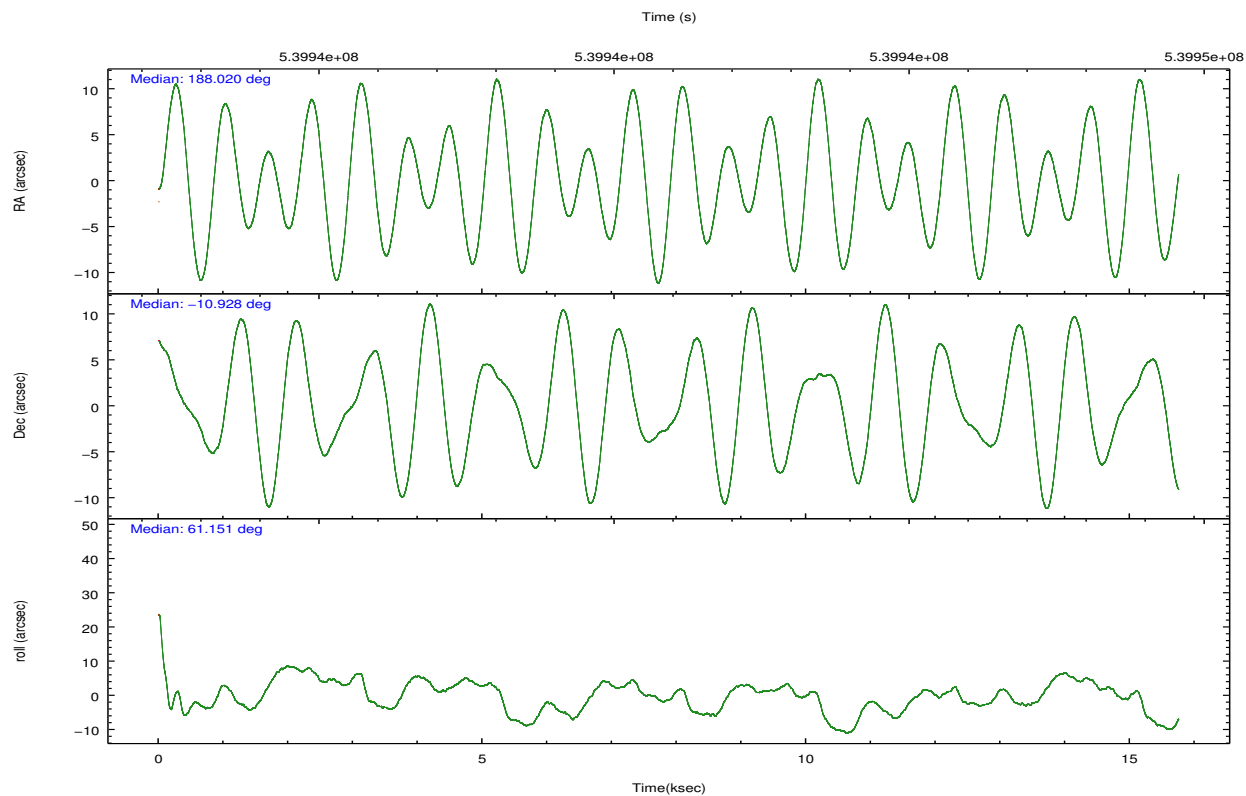
	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	3126	3187	4224	6983
	3%	3%	3%	6%
grade 1 events	40	29	113	63
	0%	0%	0%	0%
grade 2 events	1822	2227	9781	6035
	2%	2%	9%	5%
grade 3 events	892	890	3726	2516
	1%	1%	3%	2%
grade 4 events	948	861	3693	2397
	1%	1%	3%	2%
grade 5 events	3755	3748	10418	5675
	4%	4%	9%	5%
grade 6 events	1815	2211	26086	6877
	2%	2%	24%	6%
grade 7 events	66498	70201	49397	70629
	84%	84%	45%	69%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-3678	ACIS-3678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	188.020373	188.0194364415058	CCD I2 on	N	N
[deg] Pointing Dec	-10.955638	-10.92819023056876	CCD I3 on	O1	Y
[deg] Pointing Roll	61.007962	61.16443042794238	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[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	O2	Y
[s] Observation start time (MET)	539933820.184000	539932529.896	CCD S5 on	N	N
Observation start date	2015-02-10T05:35:53	2015-02-10T05:15:29	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	539948820.184000	539950030.23448	On-chip summing requested	N	N
Observation end date	2015-02-10T09:45:53	2015-02-10T10:07:10	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



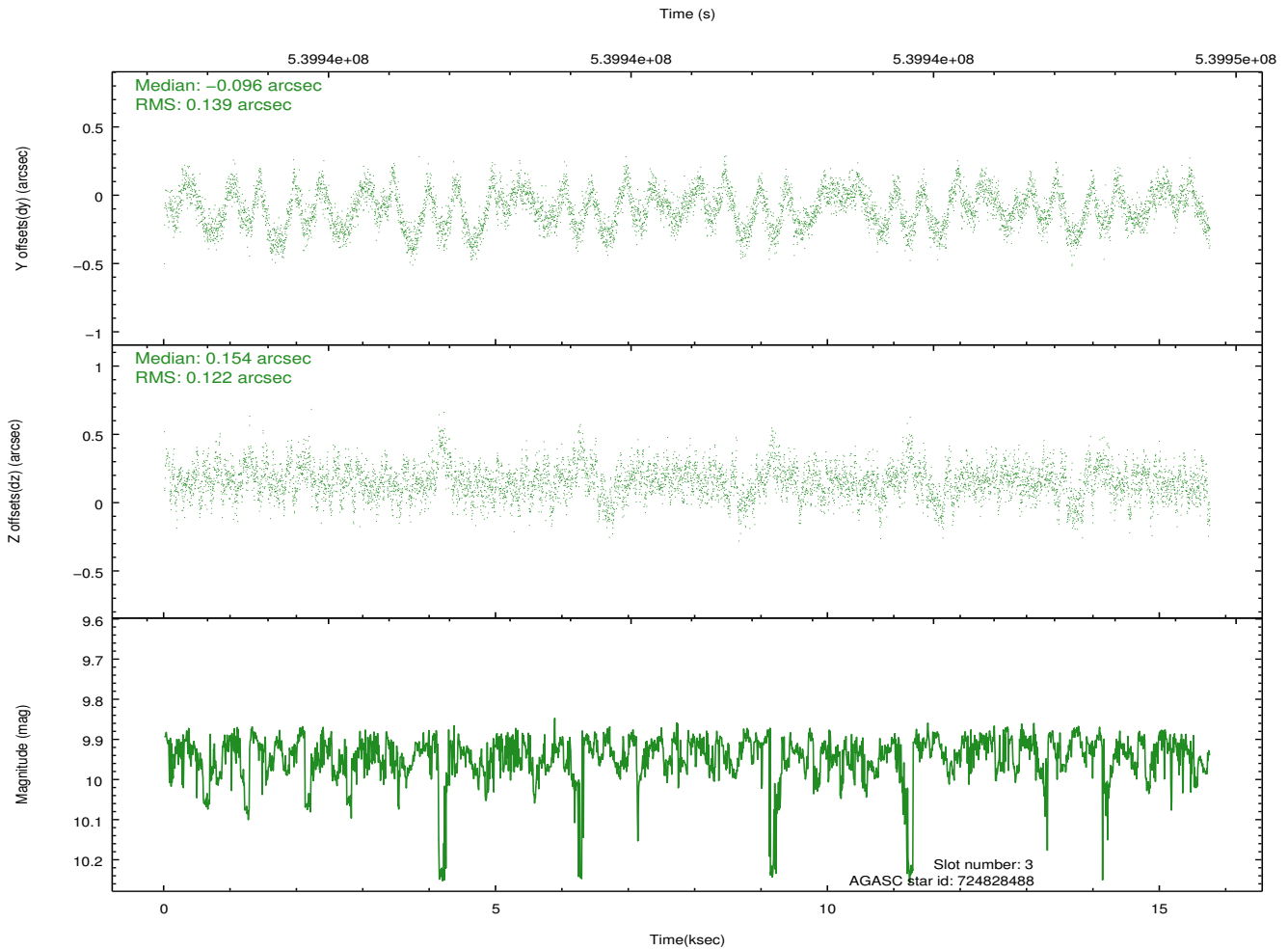
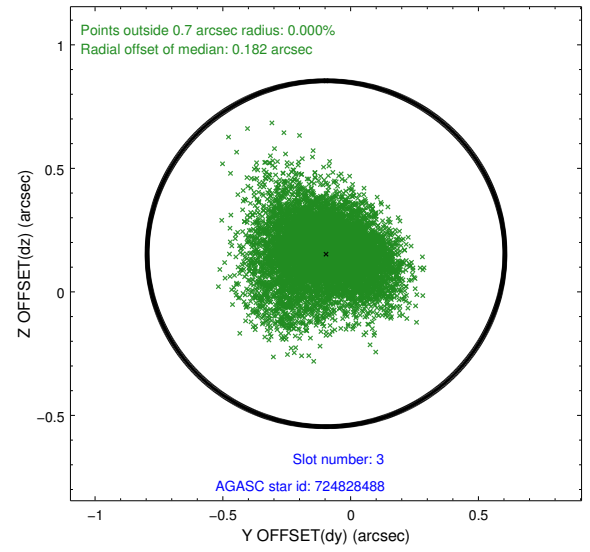
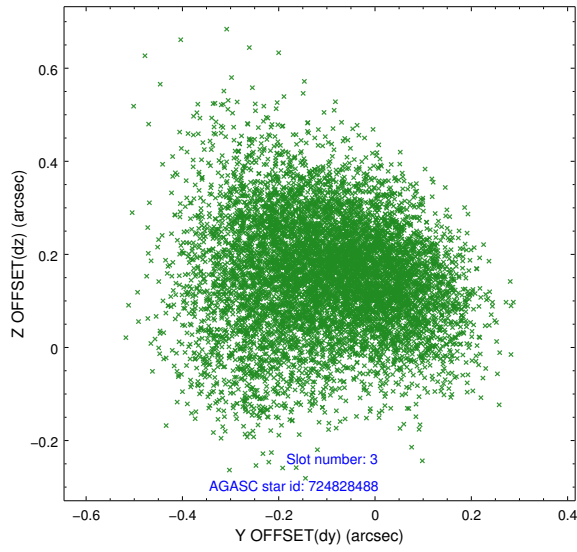


### Slot Statistics

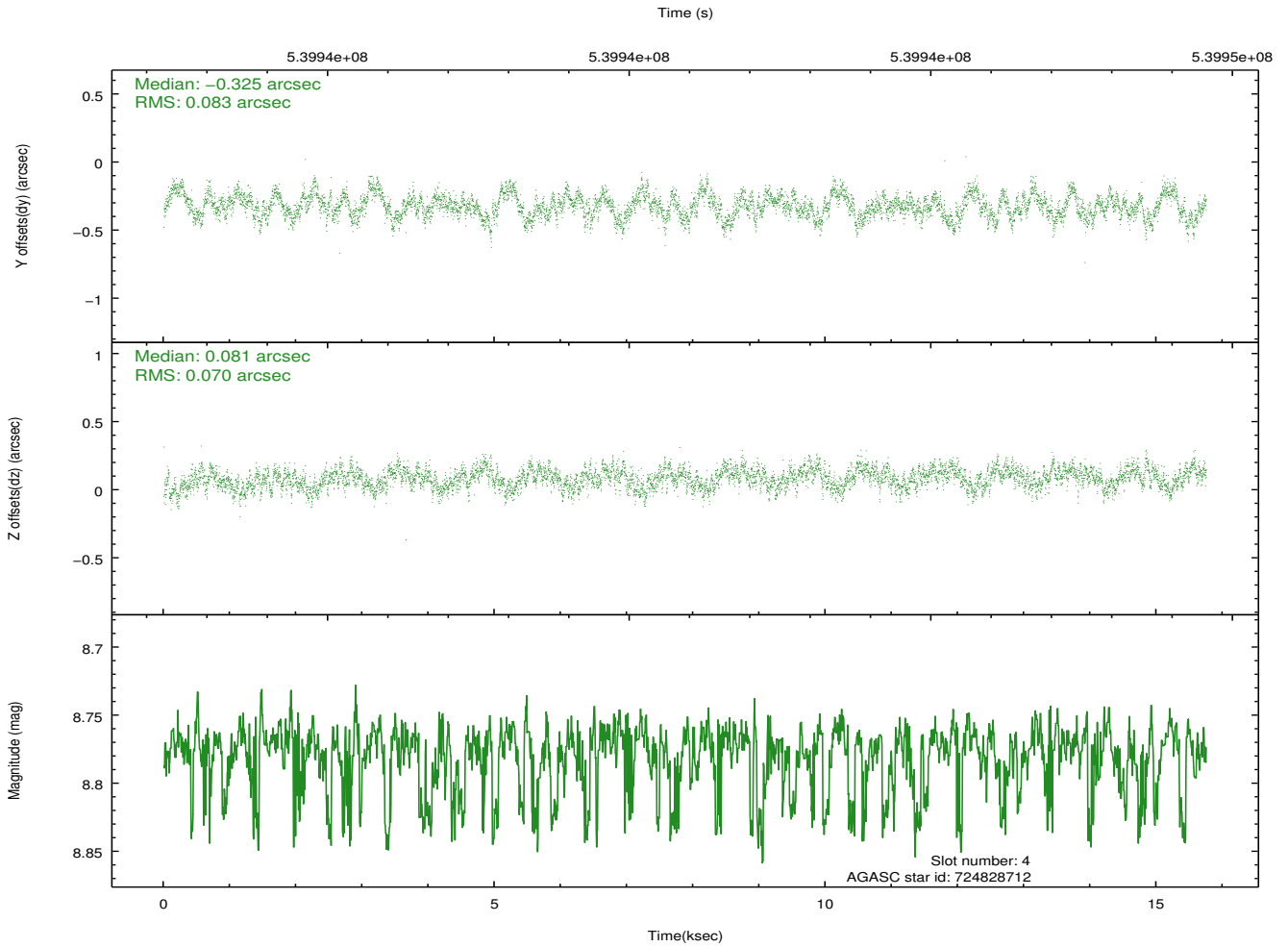
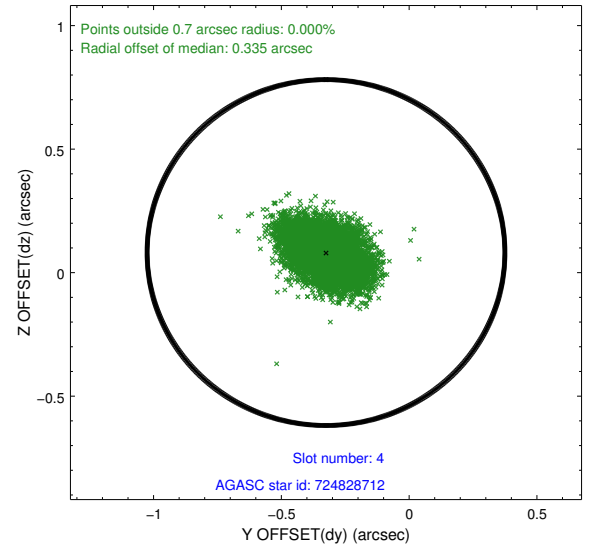
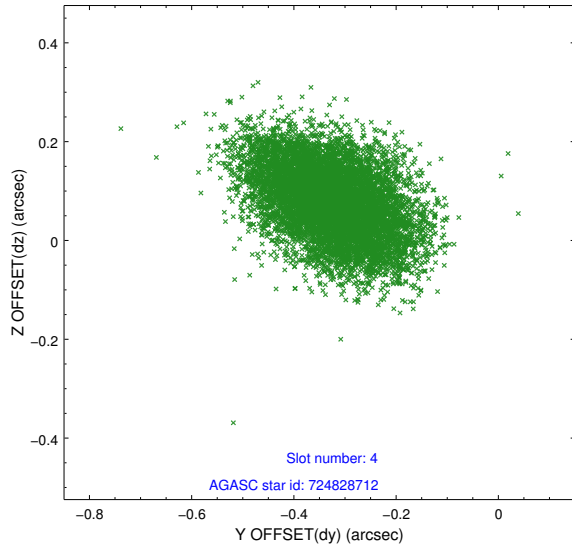
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.06	3842	-0.109	-0.019	0.009	0.017	0.000000	0.000000	-767.53	-1737.21
1	FID		ACIS-S-4	7.16	3842	0.317	0.058	0.007	0.012	0.000000	0.000000	2146.02	171.09
2	FID		ACIS-S-5	7.18	3842	-0.238	-0.030	0.008	0.013	0.000000	0.000000	-1820.17	164.94
3	GUIDE	used	724828488	9.94	7633	-0.096	0.154	0.199	0.318	187.416655	-10.738707	-354.26	2245.71
4	GUIDE	used	724828712	8.78	7682	-0.325	0.081	0.115	0.188	188.578565	-10.882907	1183.95	-1598.34
5	GUIDE	used	724834176	9.84	7653	0.171	-0.145	0.176	0.275	187.499703	-11.249672	-1818.17	1093.79
6	GUIDE	used	724834192	9.84	7671	0.183	-0.147	0.191	0.341	187.566558	-11.249477	-1702.97	888.55
7	GUIDE	used	724844544	8.42	7682	0.079	0.061	0.110	0.176	188.295031	-11.134249	-92.67	-1160.26

## 2.4 Star Slots

### 2.4.1 Slot 3

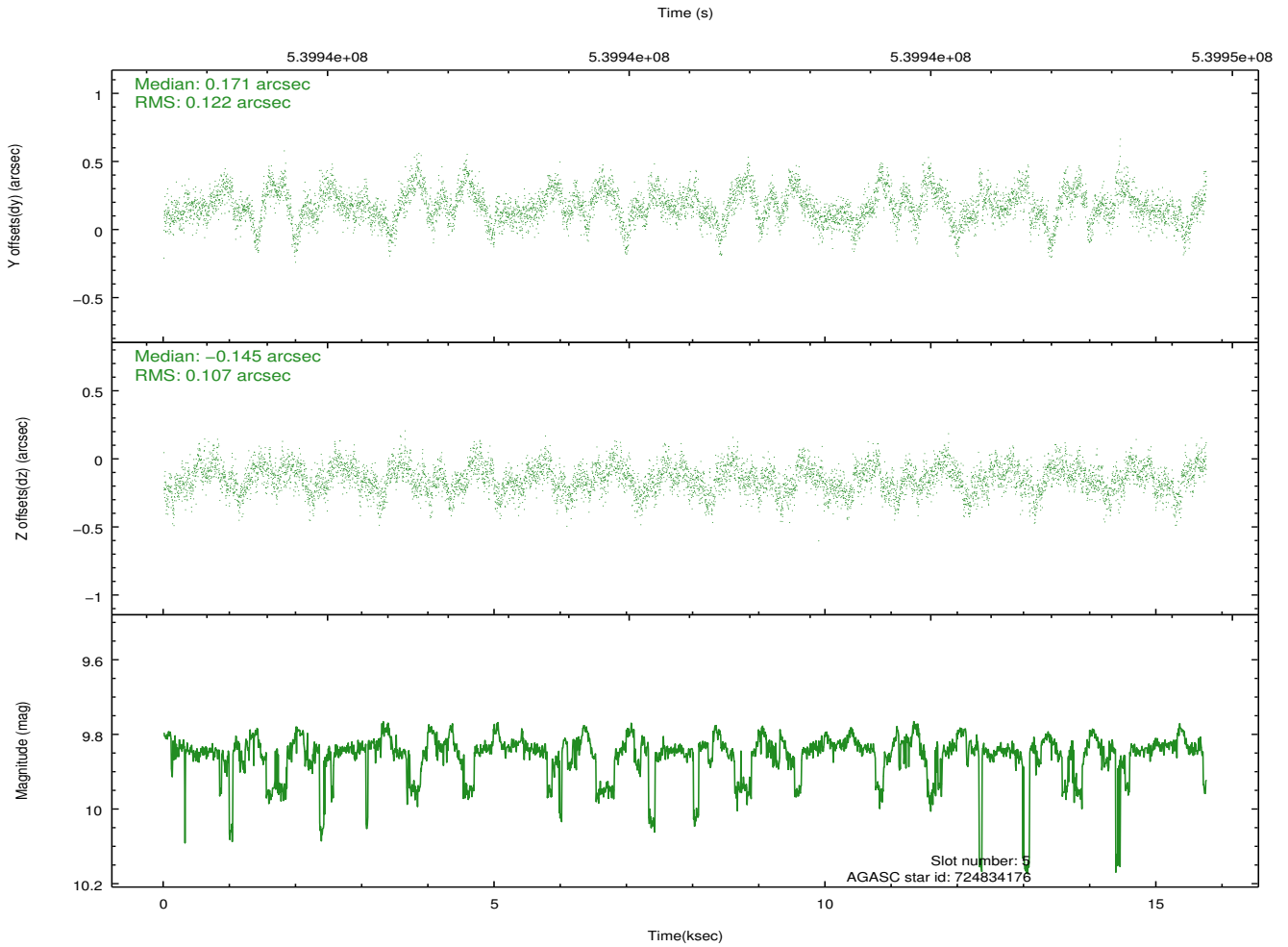
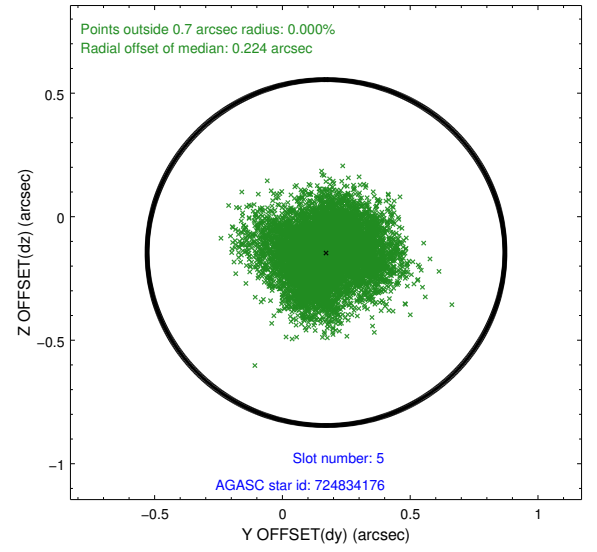
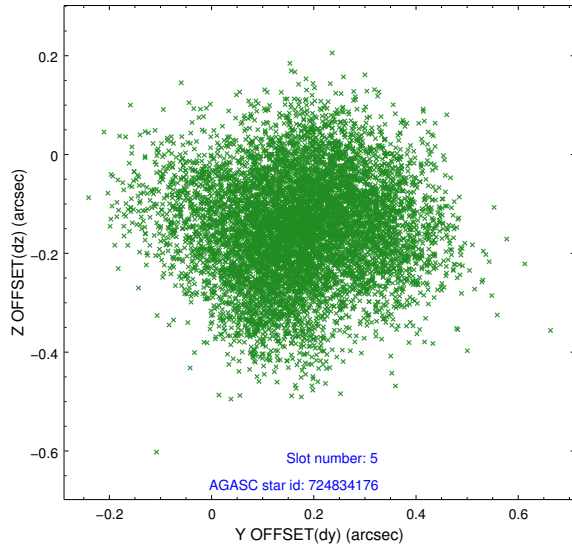


## 2.4.2 Slot 4

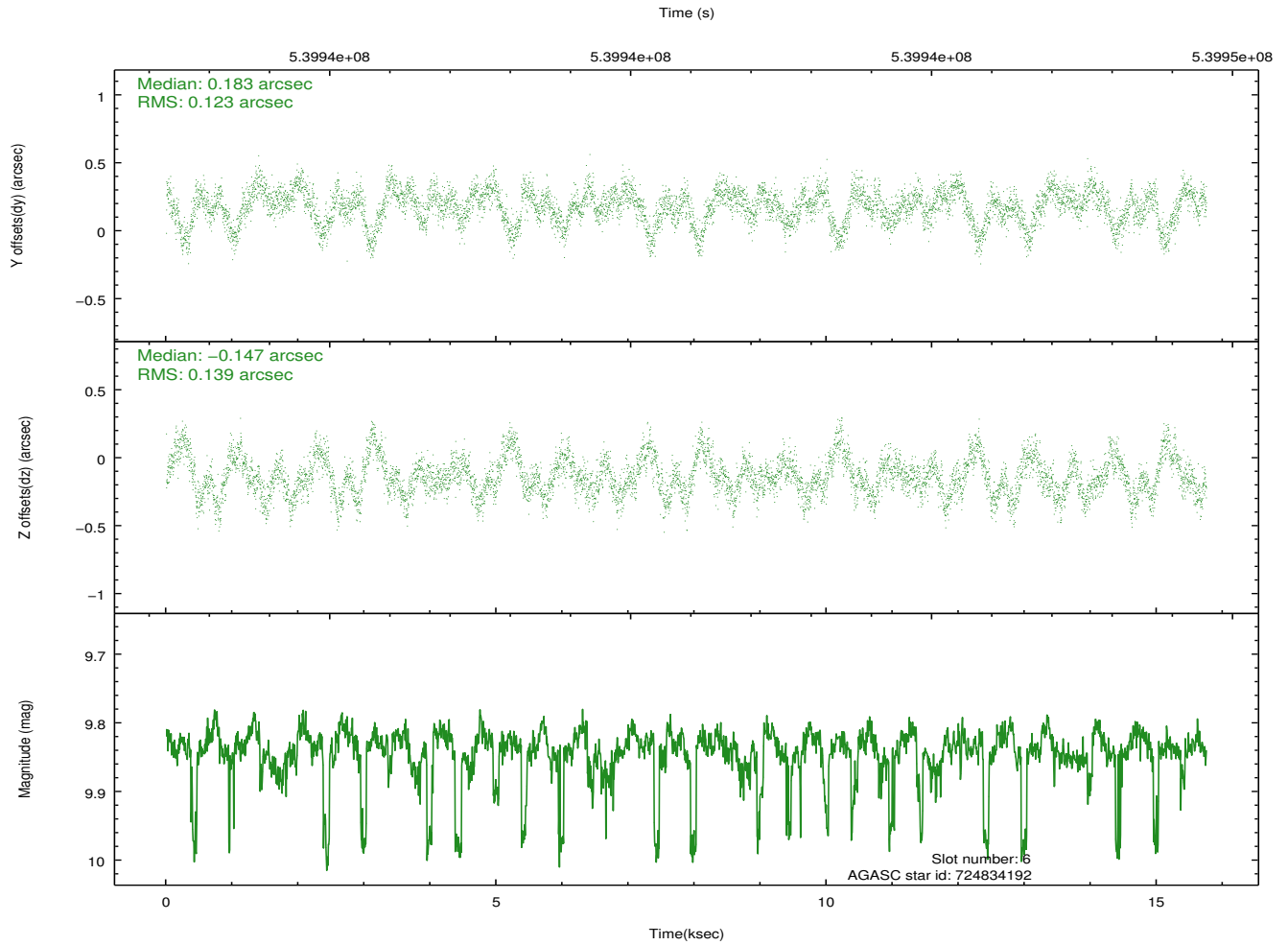
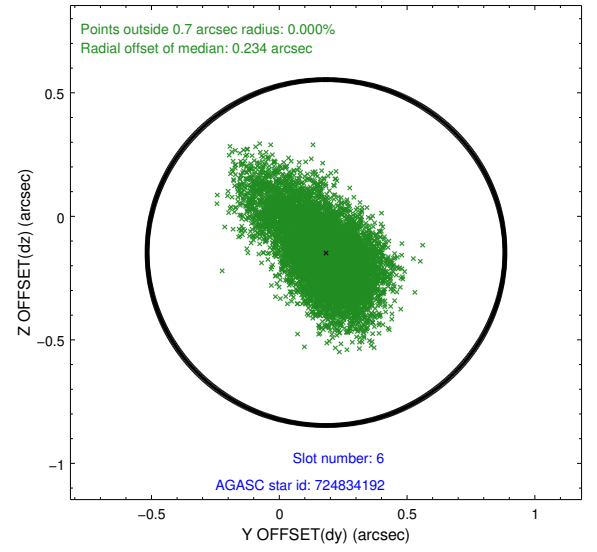
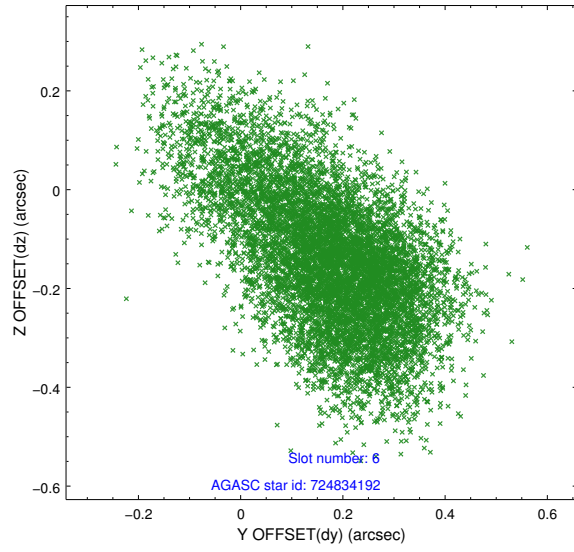




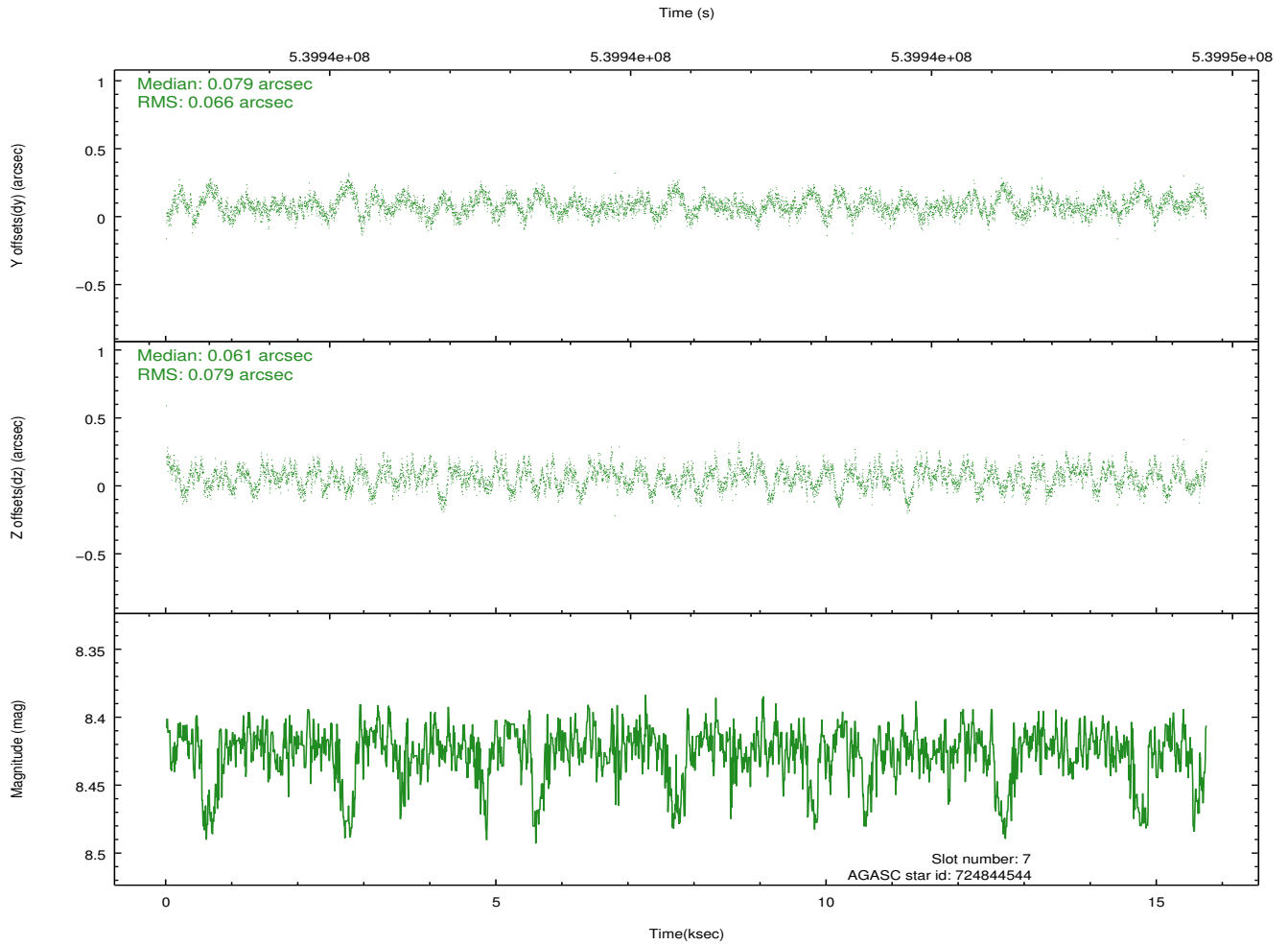
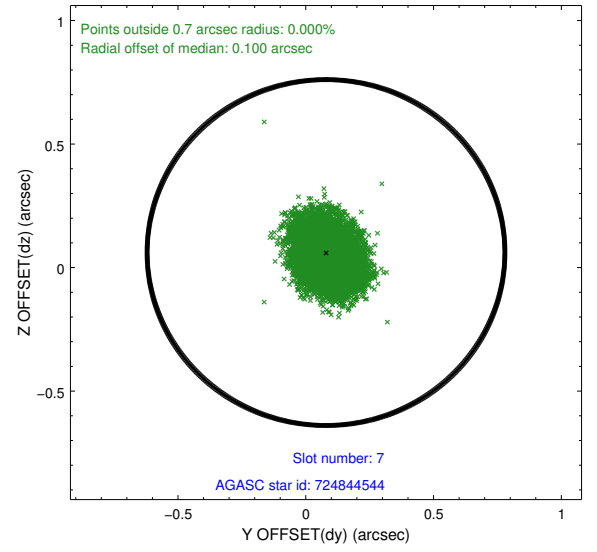
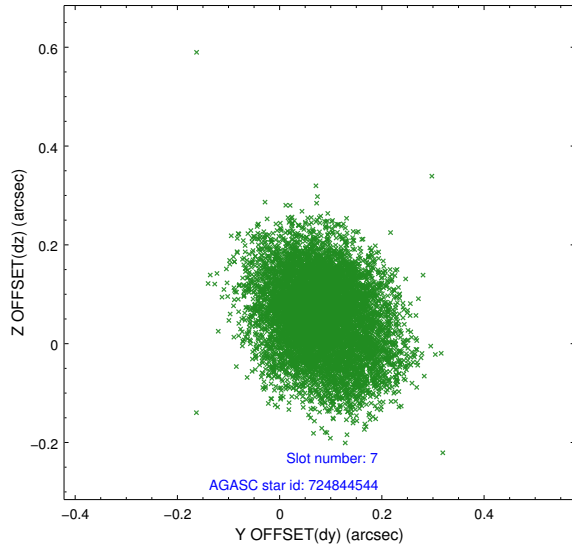
### 2.4.3 Slot 5



## 2.4.4 Slot 6

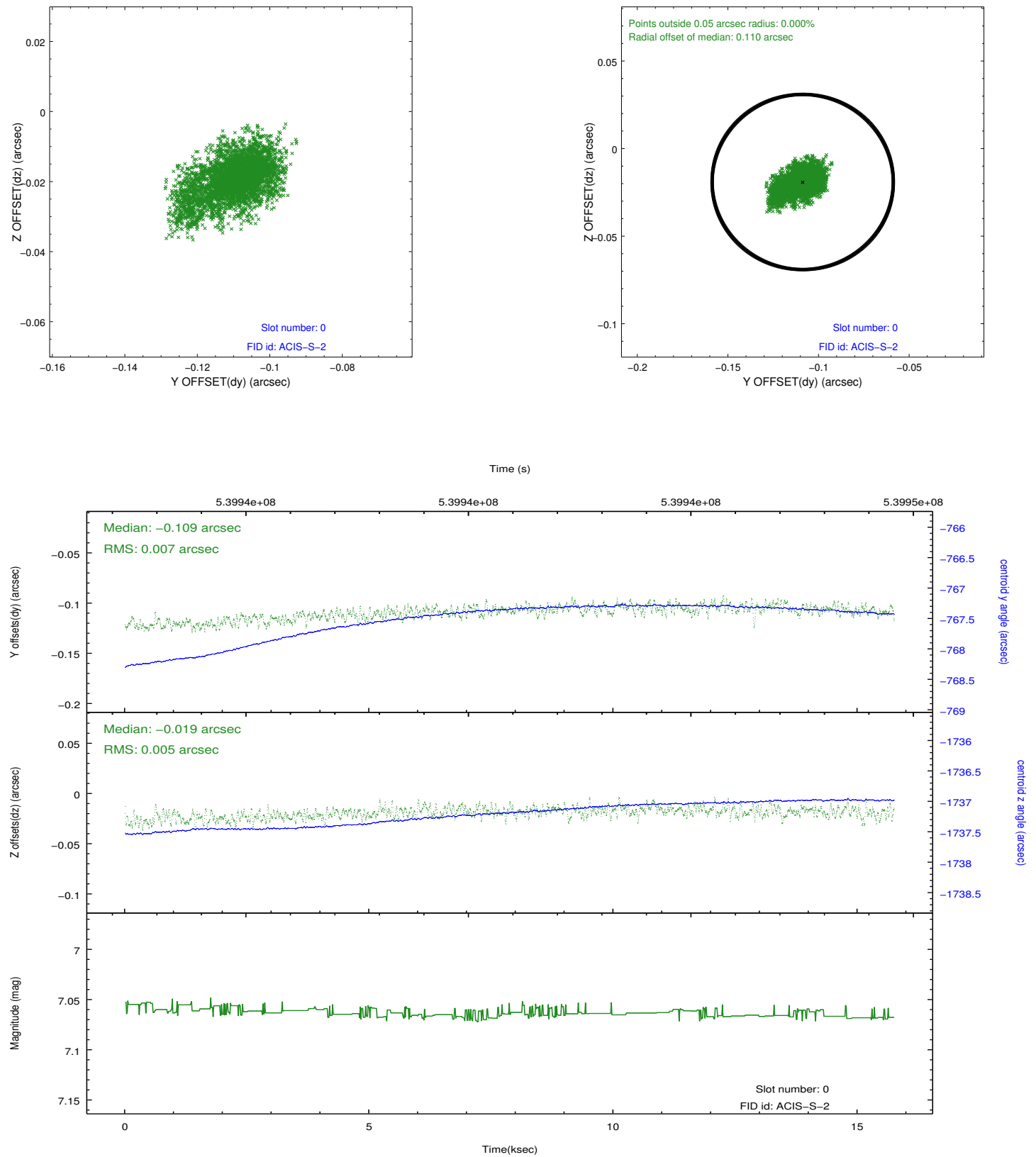


## 2.4.5 Slot 7

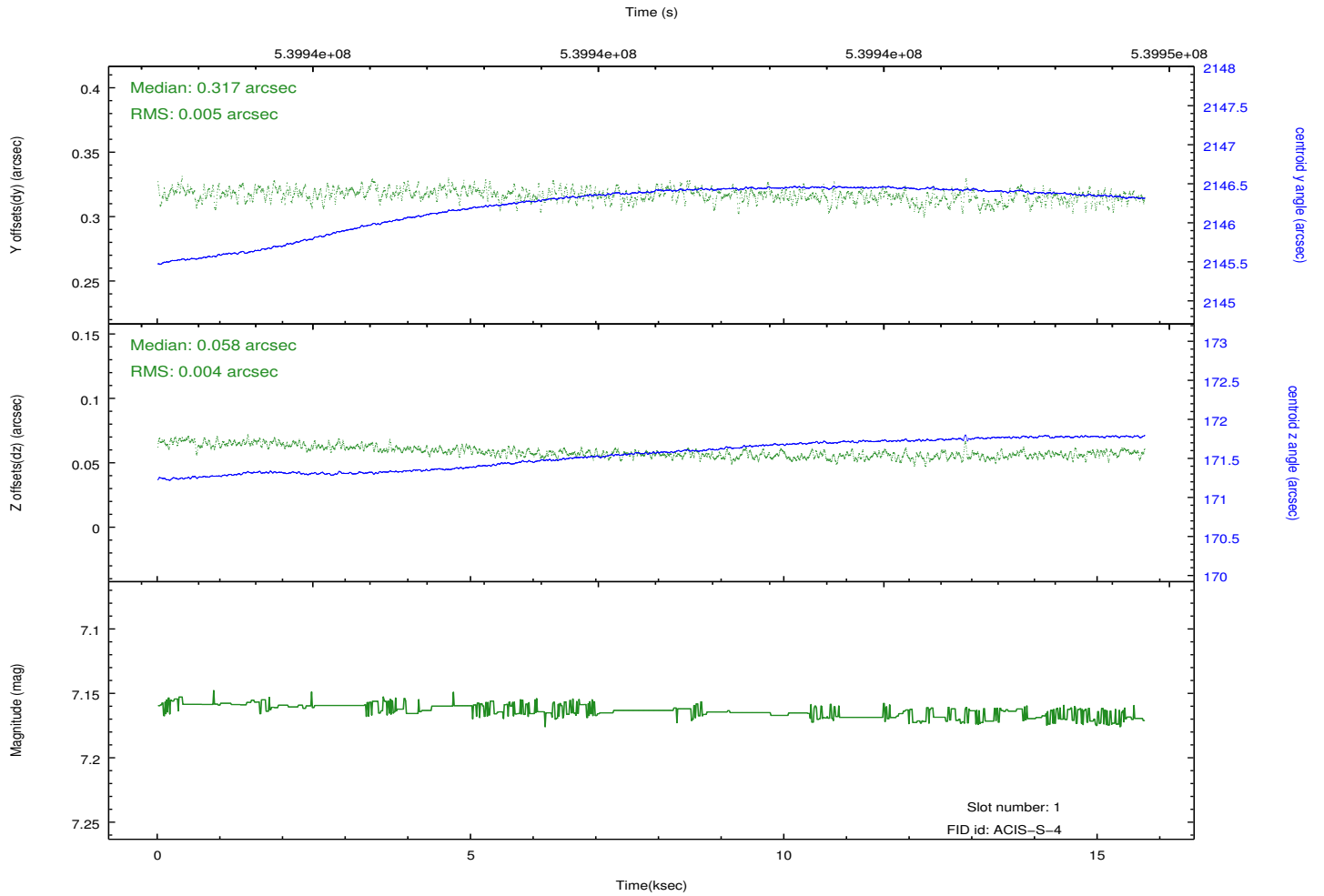
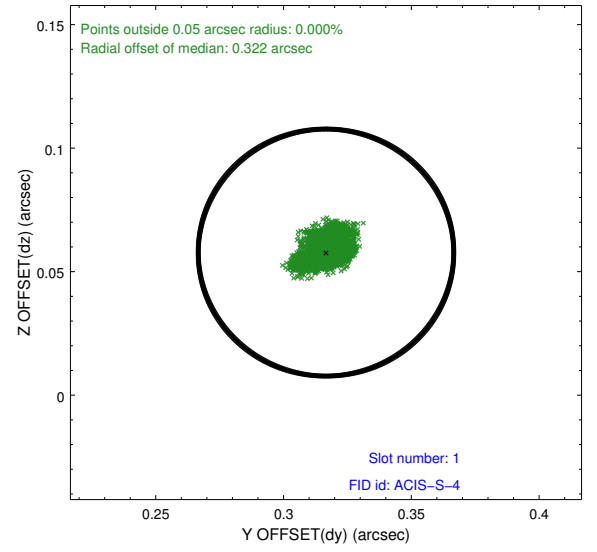
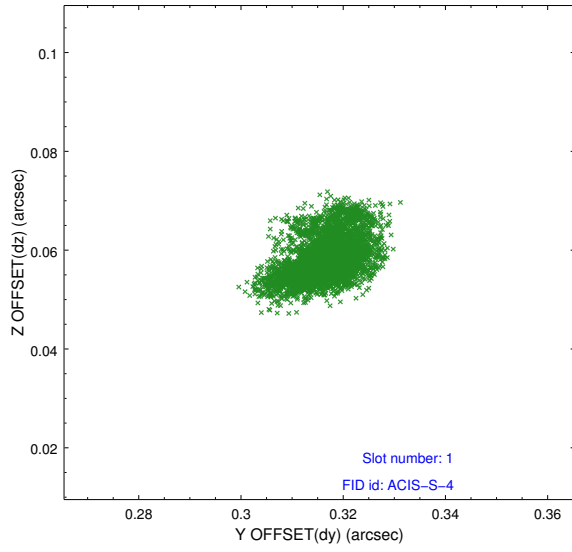


## 2.5 FID Slots

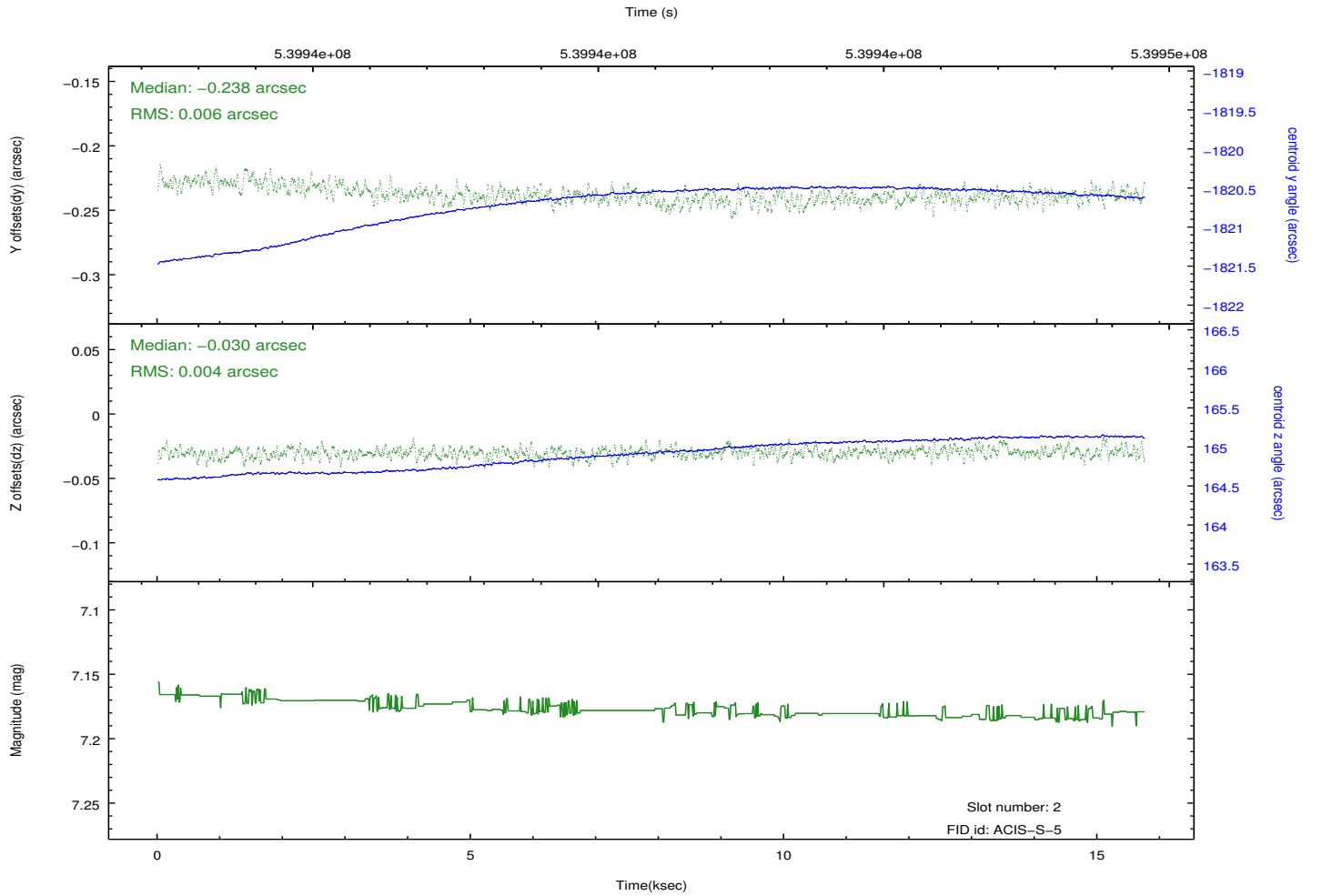
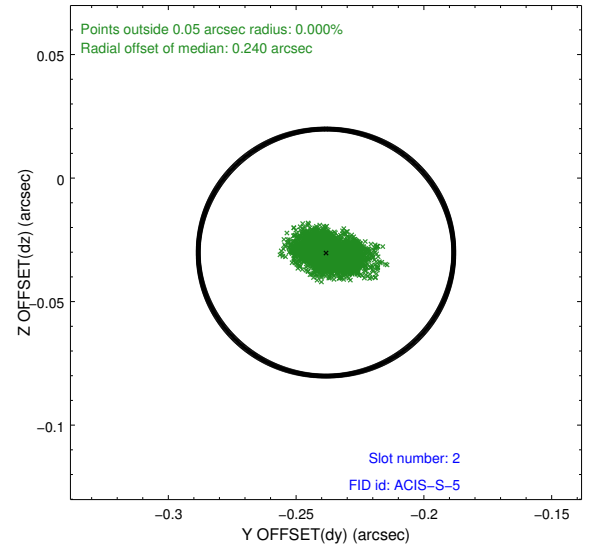
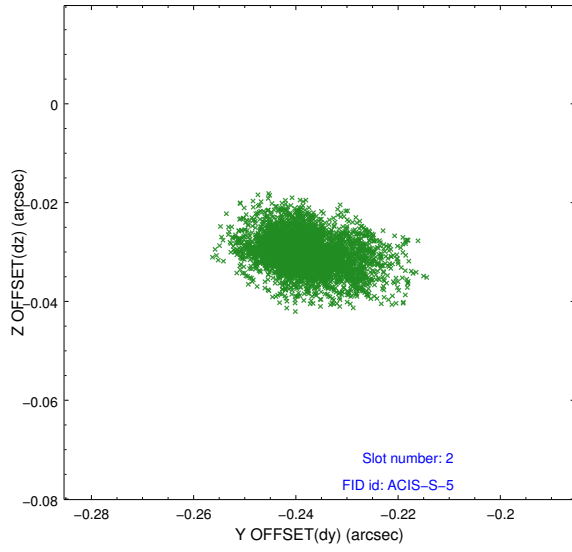
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2015.02.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.058837465763

### A.2 Comments