

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9951 - L2 Version 2  
Chandra X-Ray Center

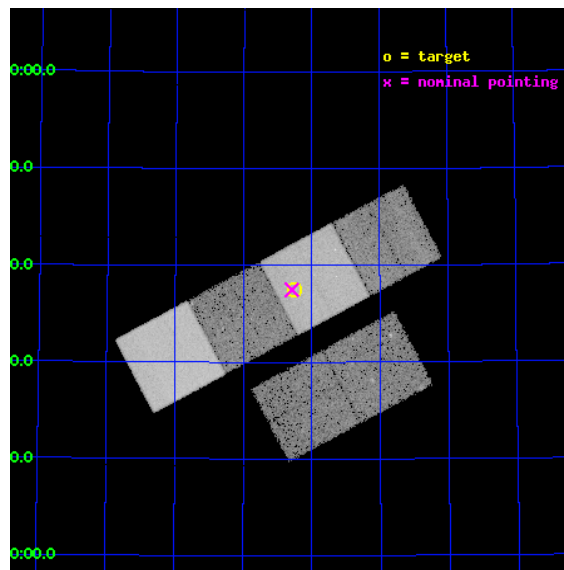
L2 Processing Date : Jun 3 2012

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# 1 Front

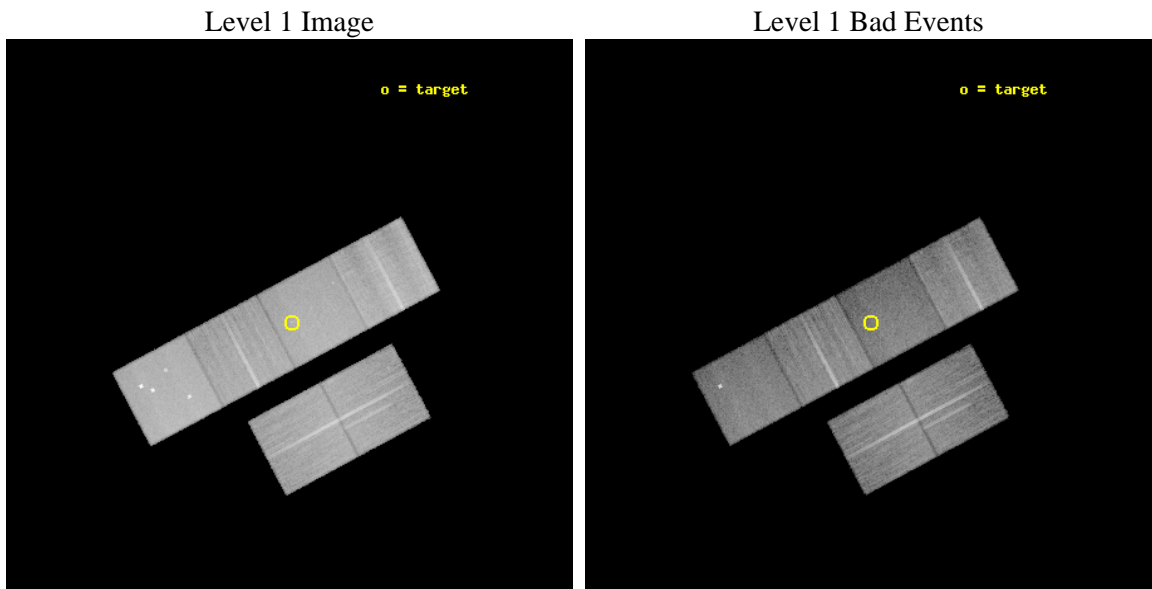
seq_num	300238	Sequence number
obs_id	9951	Observation id
title	Chandra Observation of a New Galactic Globular Cluster -- FSR 584	&#160
observer	Prof. David Pooley	Principal investigator
object	FSR 584	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	36.8125	Observer's specified target RA [deg]
dec_targ	61.624444	Observer's specified target Dec [deg]
ra_nom	36.822656498405	Nominal RA [deg]
dec_nom	61.624723282304	Nominal Dec [deg]
roll_nom	331.93401018777	Nominal Roll [deg]
revision	2	Processing version of data
ontime	20159.999924958	Sum of GTIs [s]
livetime	19904.721867013	Livetime [s]
ontime2	20159.999924958	Sum of GTIs [s]
ontime3	20159.999924958	Sum of GTIs [s]
ontime5	20159.999924958	Sum of GTIs [s]
ontime6	20159.999924958	Sum of GTIs [s]
ontime7	20159.999924958	Sum of GTIs [s]
ontime8	20159.999924958	Sum of GTIs [s]
l2events	268442	Number of level 2 events



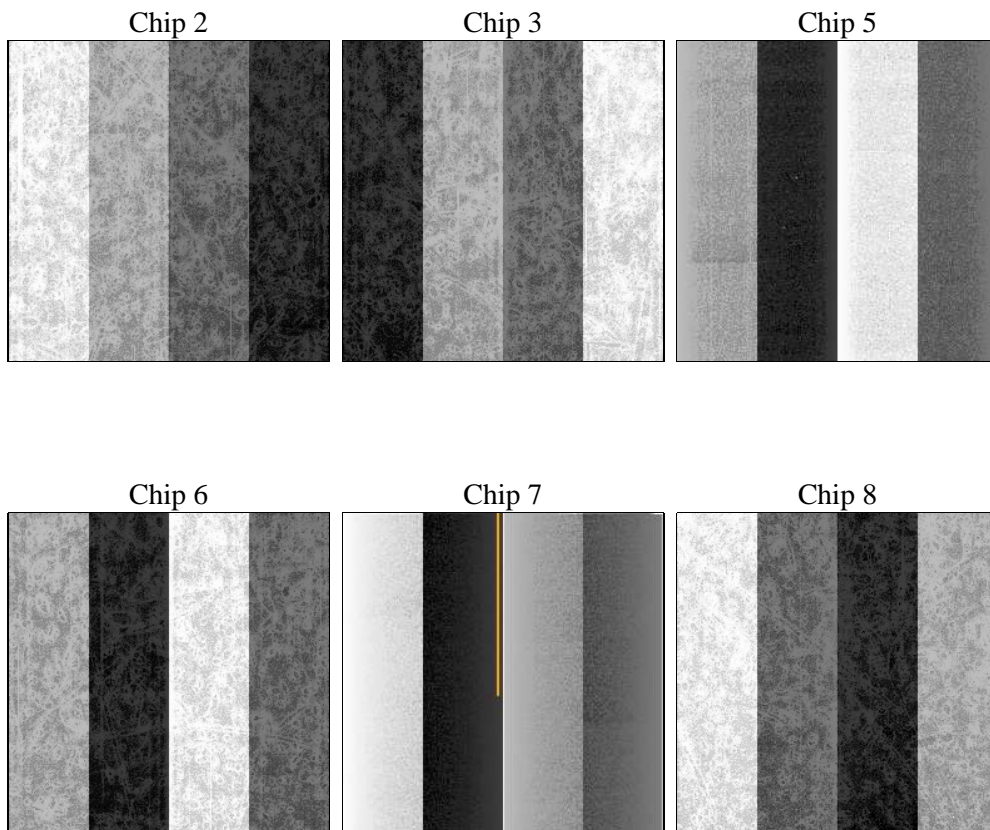
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	20159.999924958	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime2	20159.999924958	Sum of GTIs [s]
date	2012-06-03T22:29:06	Date and time of file creation	ontime3	20159.999924958	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	20159.999924958	Sum of GTIs [s]
			ontime6	20159.999924958	Sum of GTIs [s]
			ontime7	20159.999924958	Sum of GTIs [s]
			ontime8	20159.999924958	Sum of GTIs [s]
			l1events	1239965	Number of level 1 events

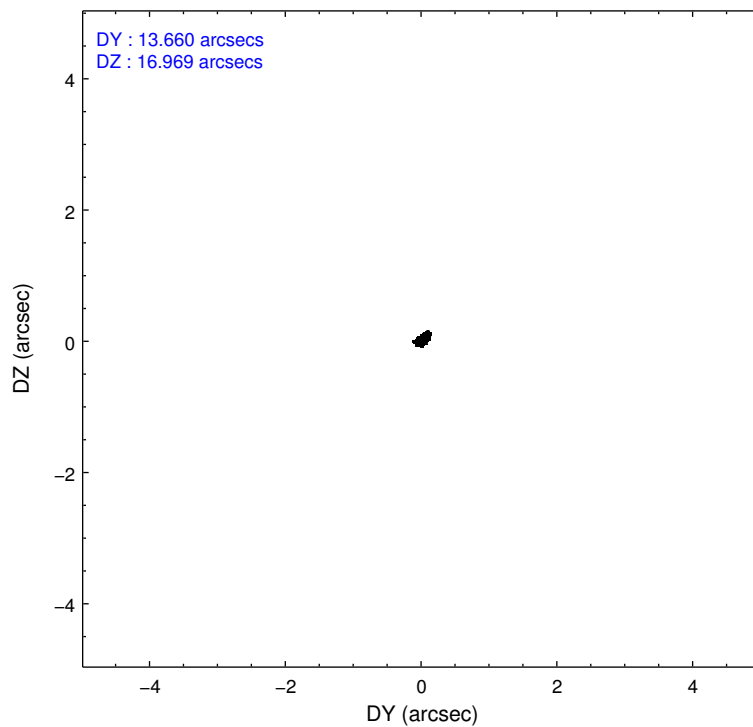
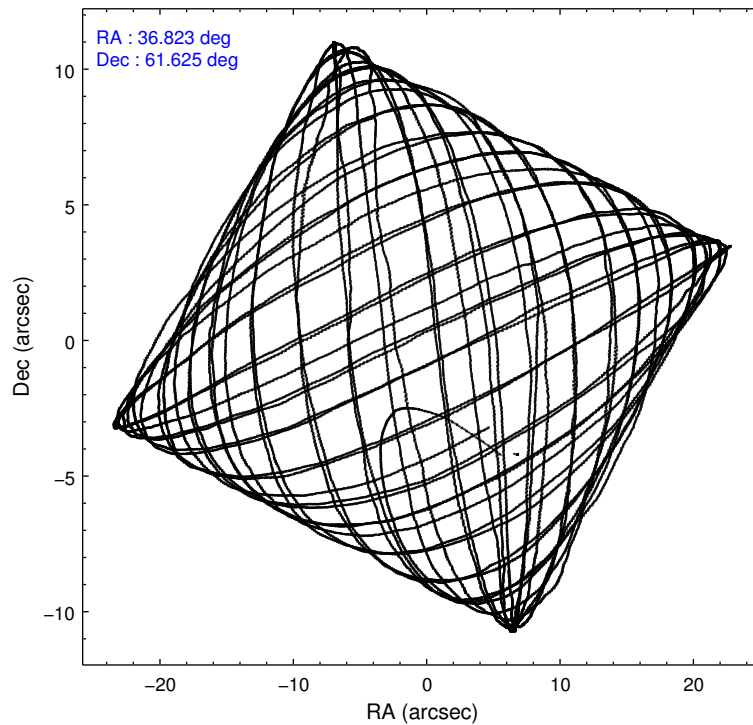
### 2.1.4 Events

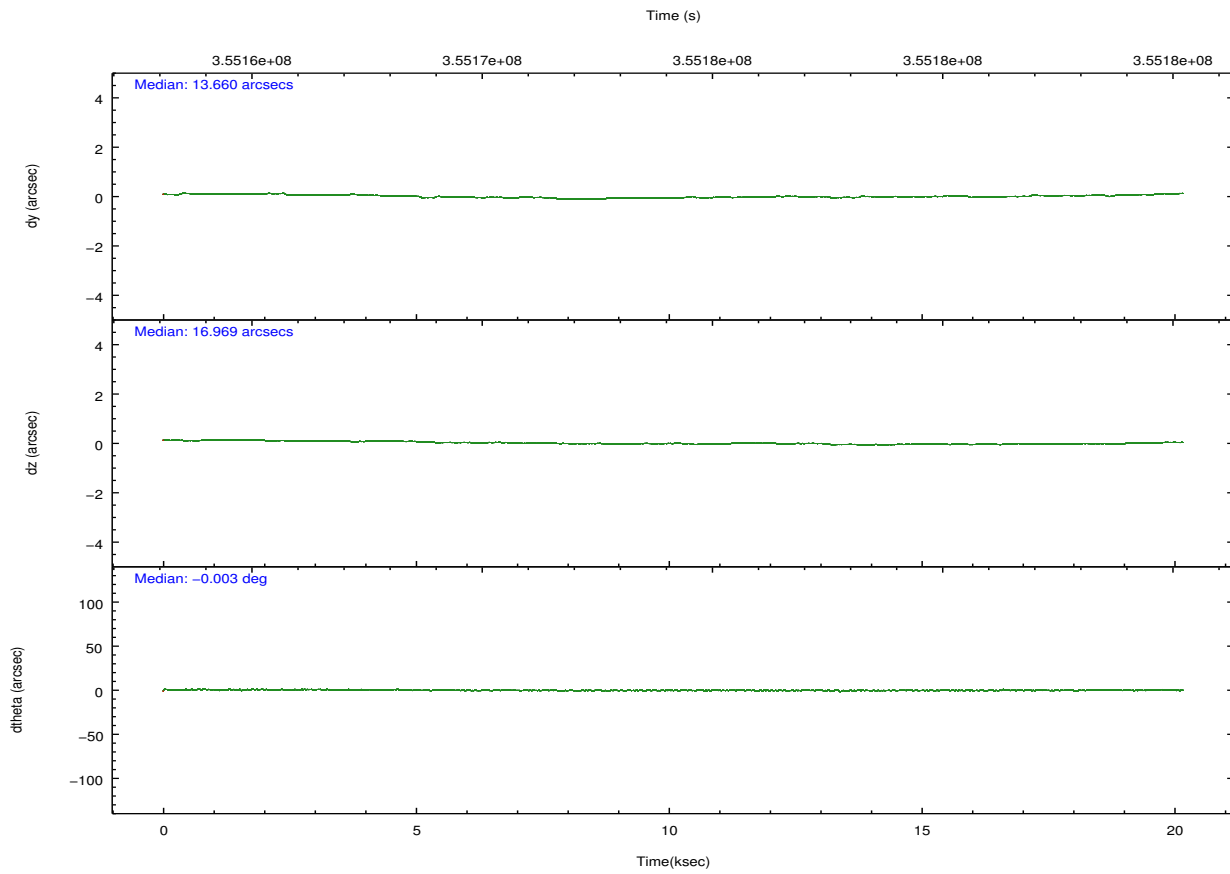
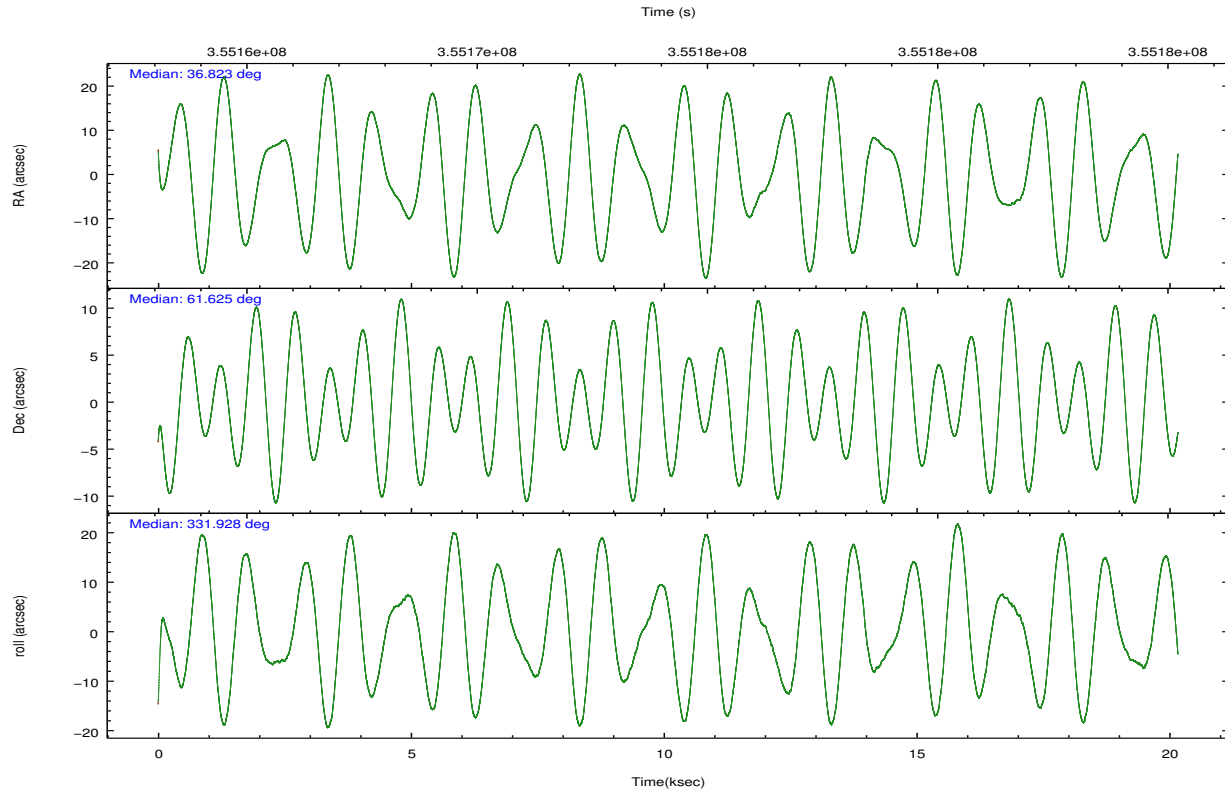
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	190095	173562	260810	180874	204766	229858	grade 0 events	6233	6077	15061	6796	8689	17196
rejected events	172546	156873	132383	162165	113444	173900		3%	3%	5%	3%	4%	7%
rejected %	90%	90%	50%	89%	55%	75%	grade 1 events	100	121	481	87	289	191
								0%	0%	0%	0%	0%	0%
							grade 2 events	4472	3724	39907	4274	19213	13124
								2%	2%	15%	2%	9%	5%
							grade 3 events	1886	1930	5146	2013	8482	6039
								0%	1%	1%	1%	4%	2%
							grade 4 events	1967	1914	4918	1968	8447	5590
								1%	1%	1%	1%	4%	2%
							grade 5 events	6321	7241	20557	7404	21308	10626
								3%	4%	7%	4%	10%	4%
							grade 6 events	3428	3432	66440	4067	48617	15242
								1%	1%	25%	2%	23%	6%
							grade 7 events	165688	149123	108300	154265	89721	161850
								87%	85%	41%	85%	43%	70%

## 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	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	36.765208	36.82265649840463	CCD I2 on	O2	Y
[deg] Pointing Dec	61.623434	61.62472328230353	CCD I3 on	O1	Y
[deg] Pointing Roll	331.827940	331.9340101877658	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	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	355164221.184000	355162918.54482	CCD S5 on	N	N
Observation start date	2009-04-03T16:42:35	2009-04-03T16:21:58	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	355184221.184000	355185154.38343	On-chip summing requested	N	N
Observation end date	2009-04-03T22:15:55	2009-04-03T22:32:34	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



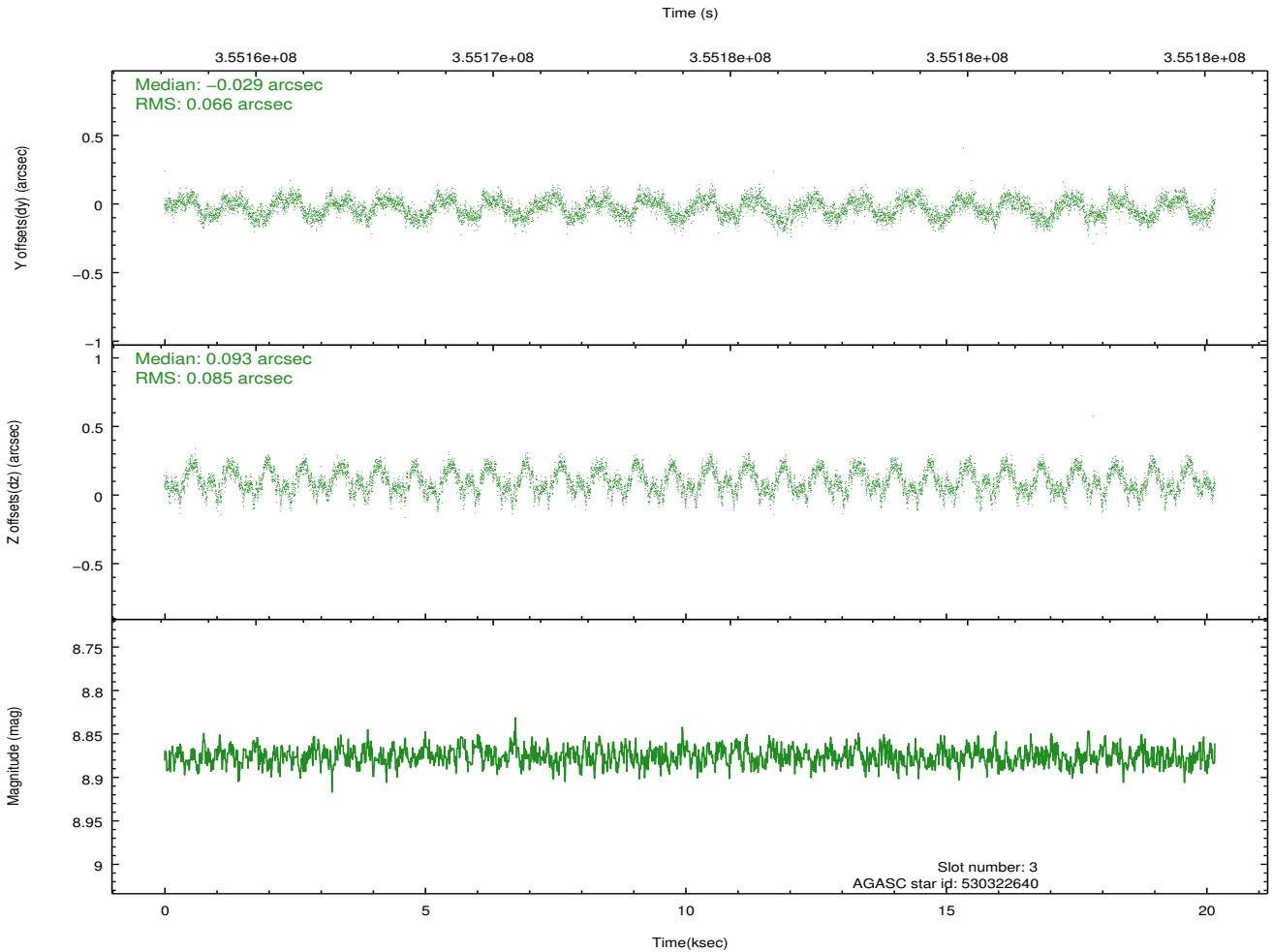
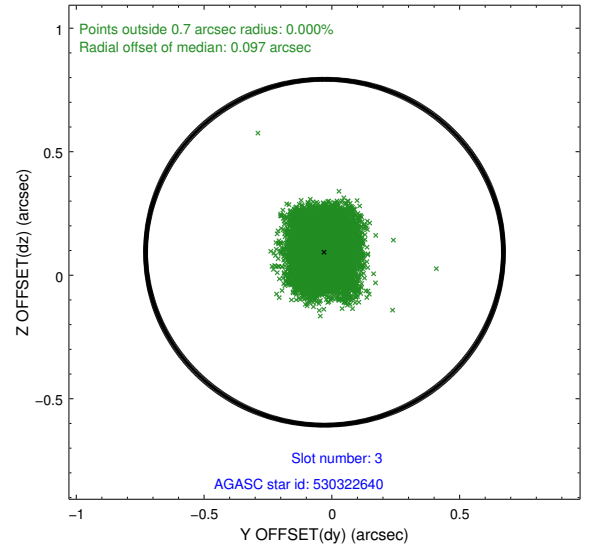
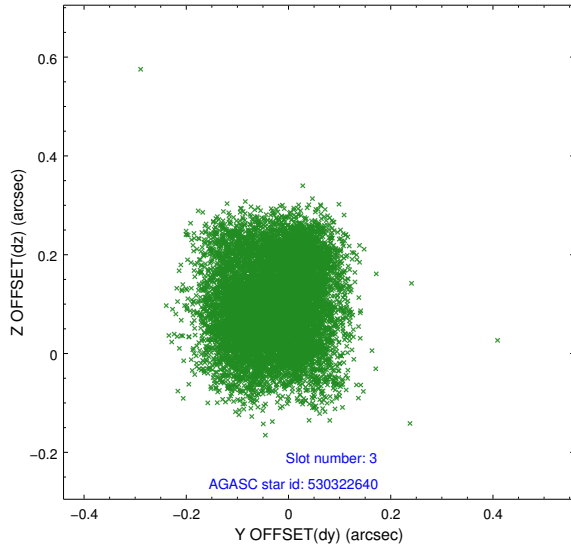


### Slot Statistics

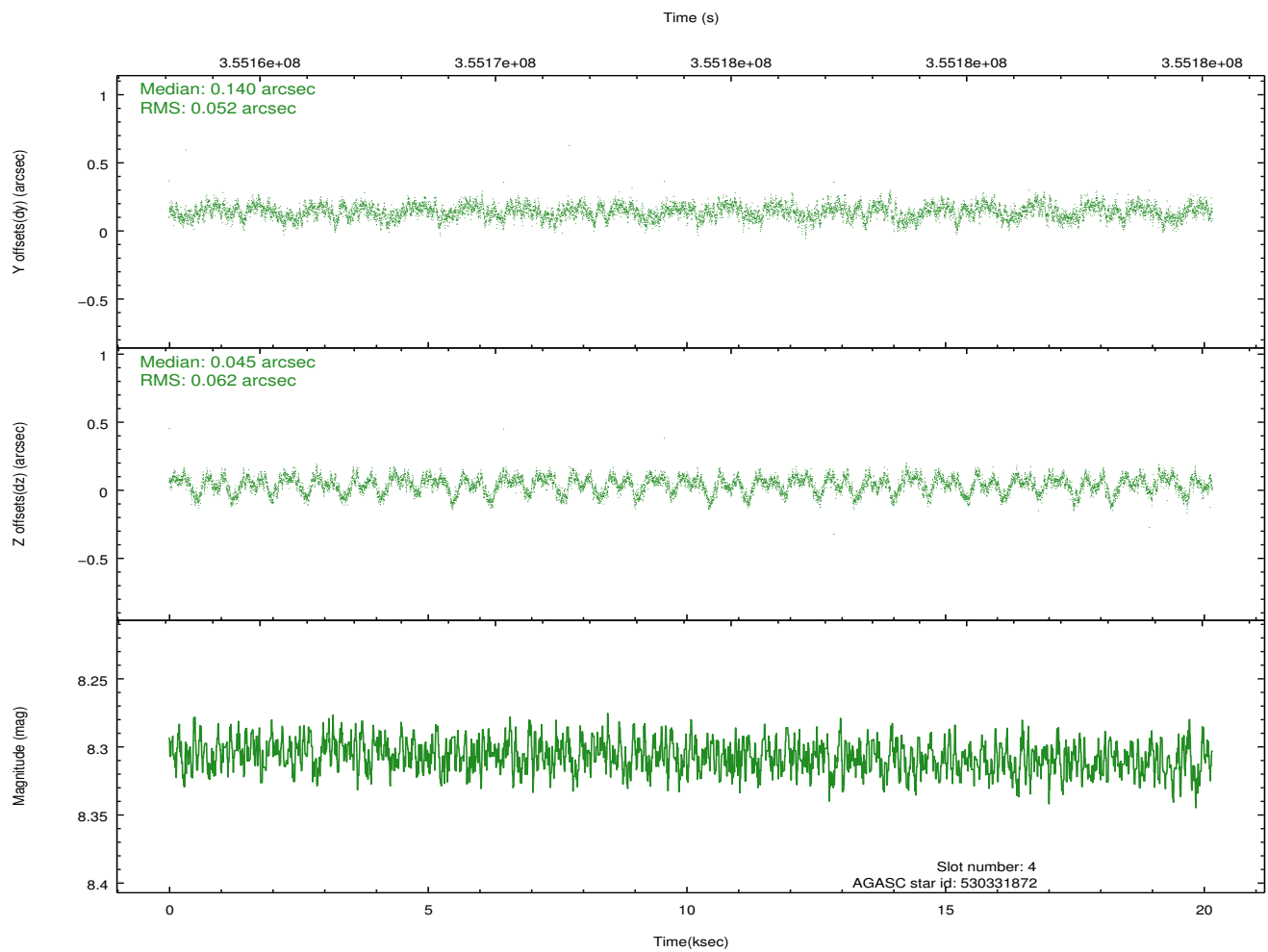
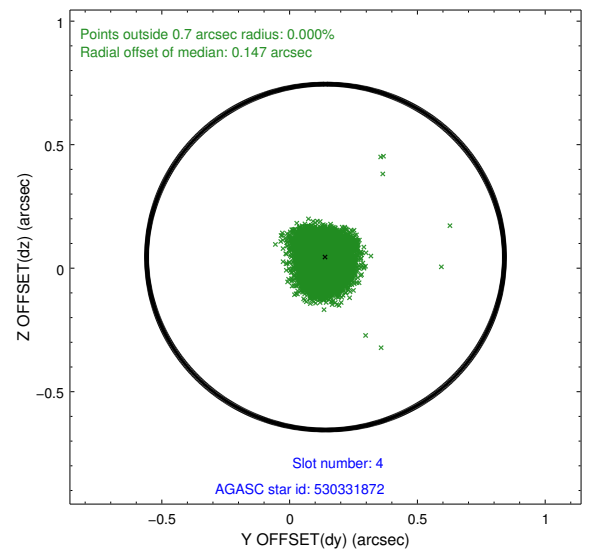
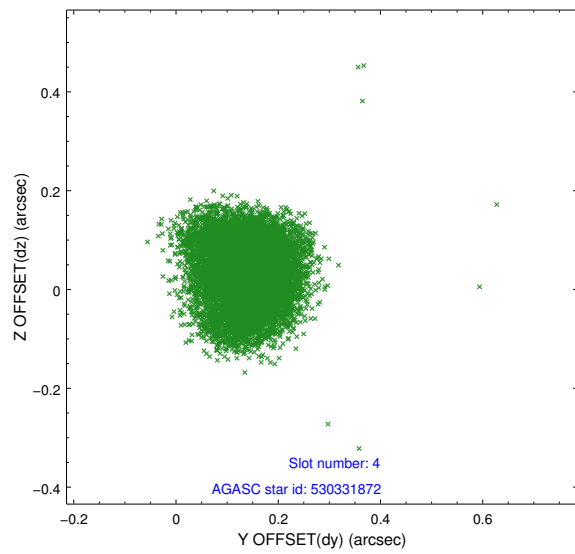
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.88	4919	-0.023	-0.017	0.007	0.011	0.000000	0.000000	-766.65	-1738.38
1	FID	ACIS-S-4	6.96	4918	0.155	0.016	0.006	0.011	0.000000	0.000000	2146.74	169.91
2	FID	ACIS-S-5	7.00	4919	-0.163	0.010	0.006	0.011	0.000000	0.000000	-1819.37	163.83
3	GUIDE	530322640	8.88	9826	-0.029	0.093	0.118	0.177	35.878914	61.773652	-1589.71	-226.59
4	GUIDE	530331872	8.31	9832	0.140	0.045	0.087	0.138	37.713971	61.177762	2203.60	-625.99
5	GUIDE	530332832	8.61	9831	-0.049	0.016	0.087	0.135	36.715415	61.017306	954.23	-1964.29
6	GUIDE	530862272	8.84	9825	-0.130	-0.039	0.098	0.158	36.216069	62.475924	-2256.26	2277.86
7	GUIDE	530327744	7.66	9834	0.065	-0.112	0.073	0.114	38.166460	61.734151	1905.14	1502.09

## 2.4 Star Slots

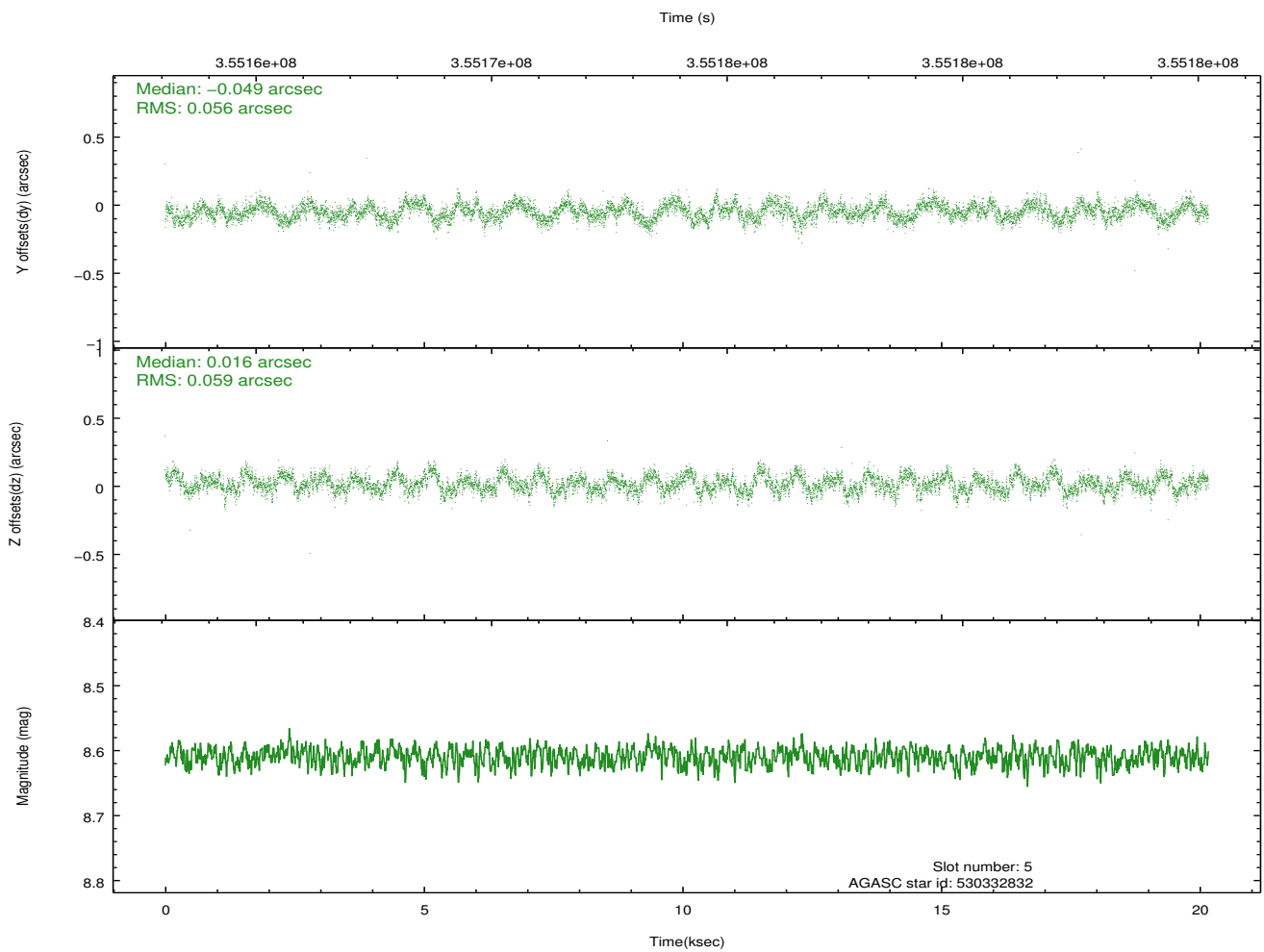
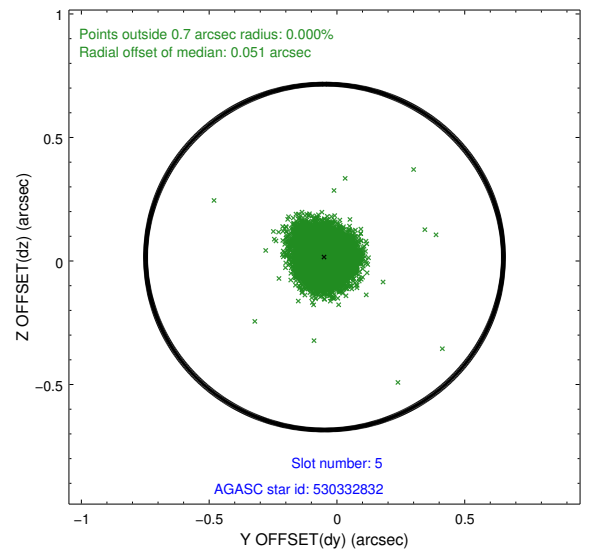
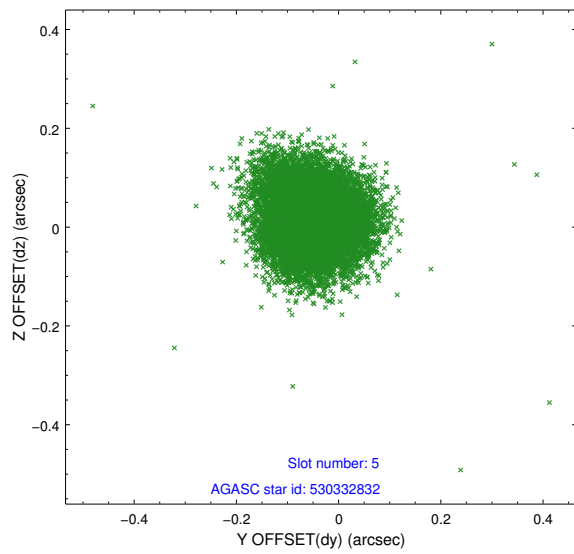
### 2.4.1 Slot 3



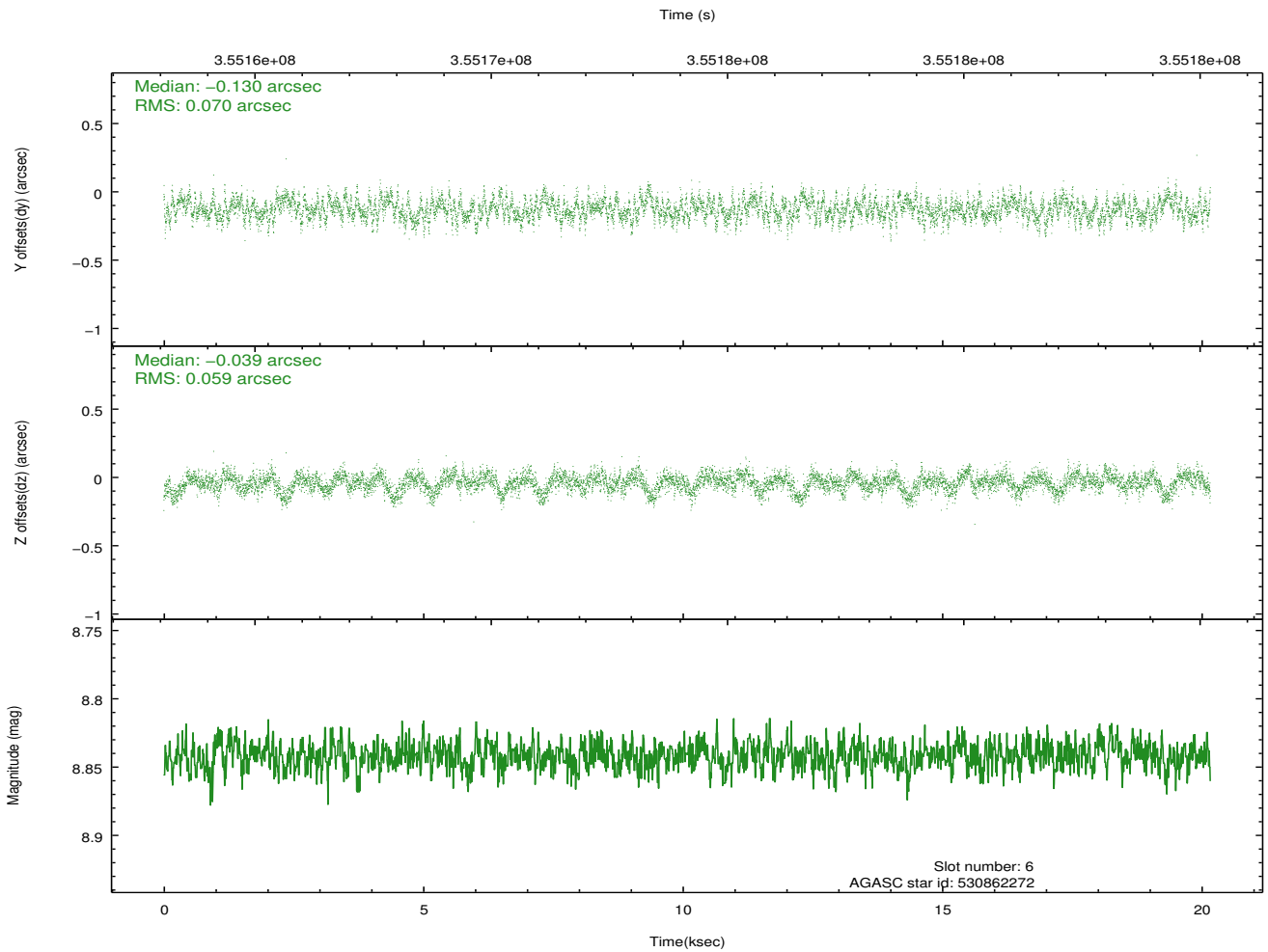
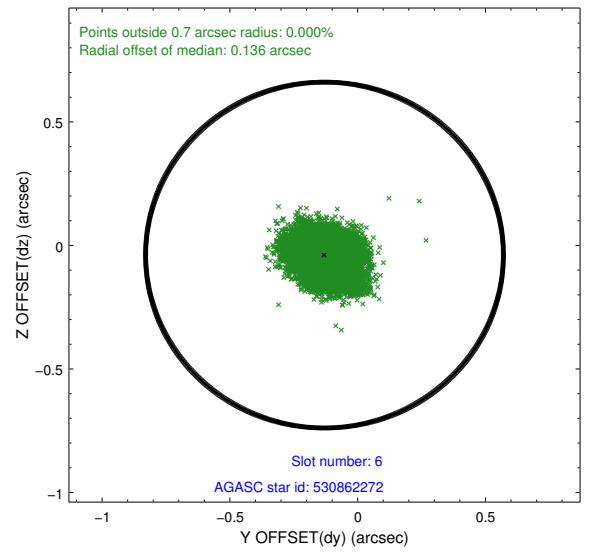
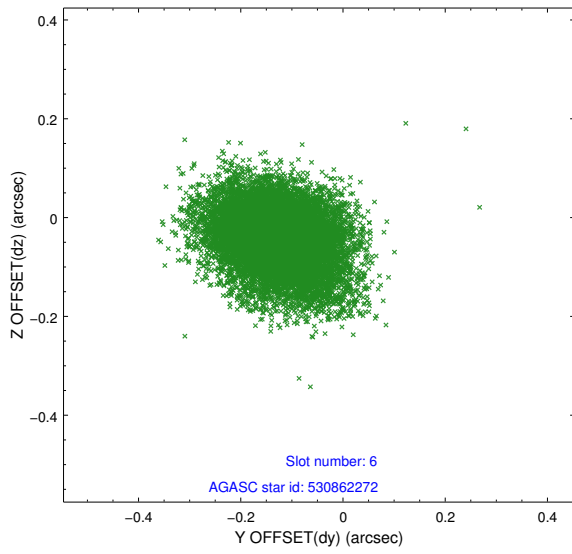
## 2.4.2 Slot 4



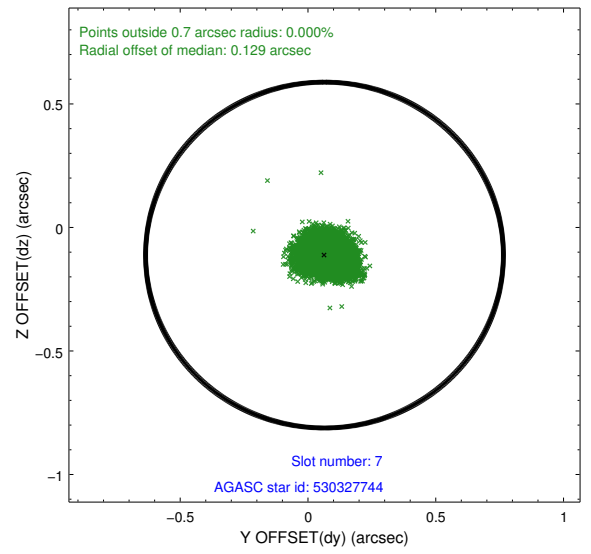
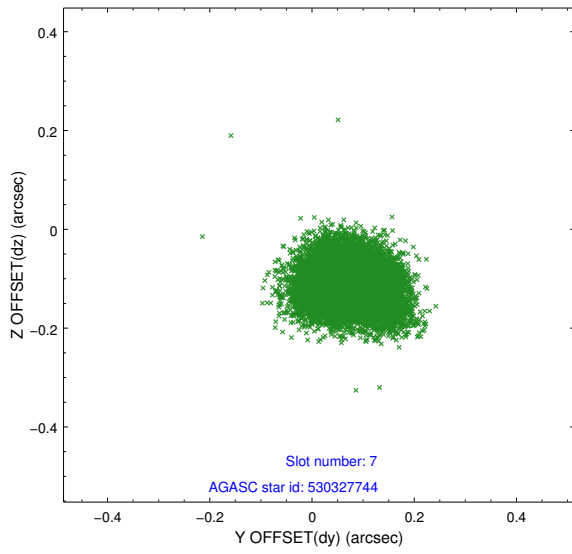
### 2.4.3 Slot 5



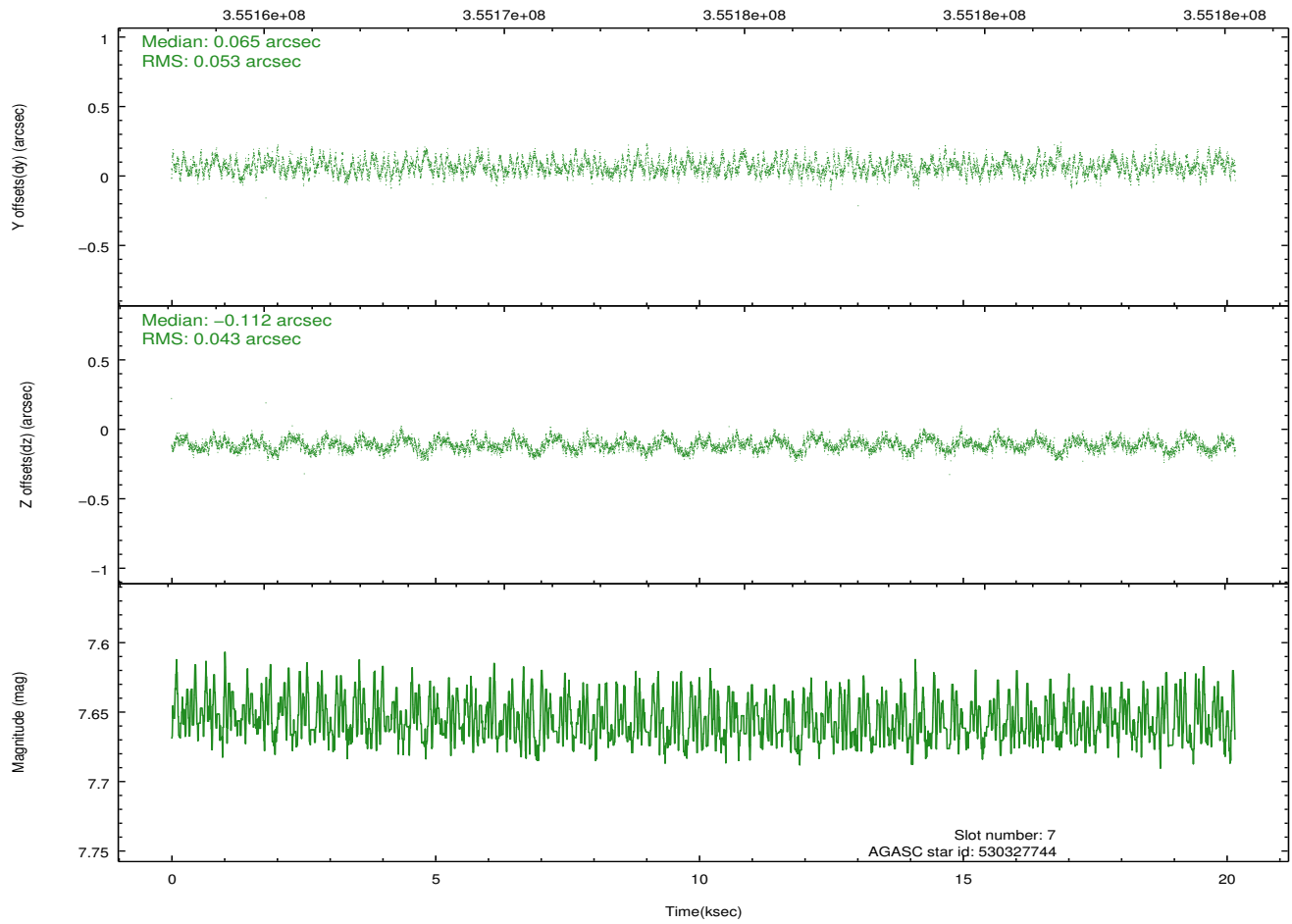
## 2.4.4 Slot 6



## 2.4.5 Slot 7

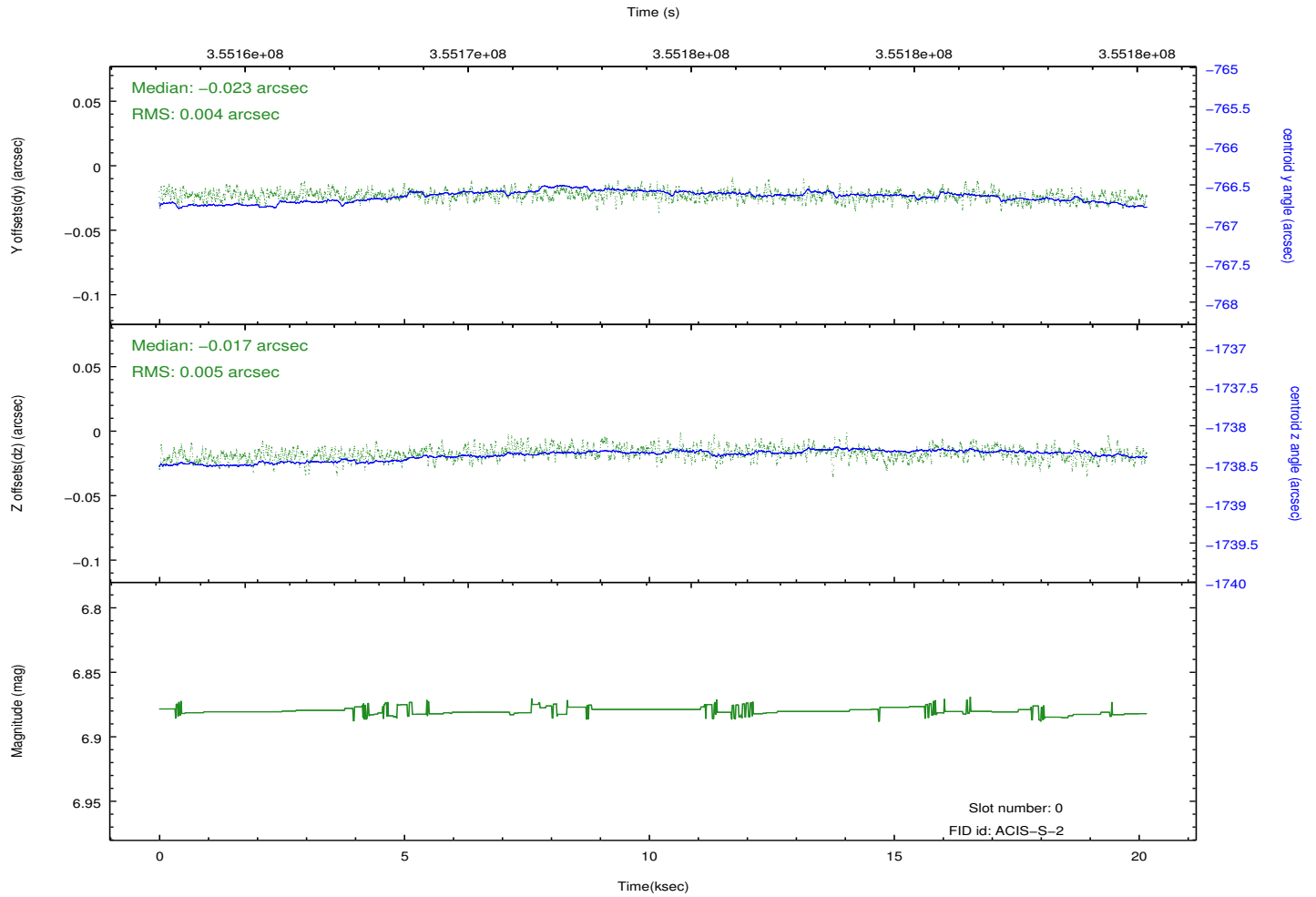
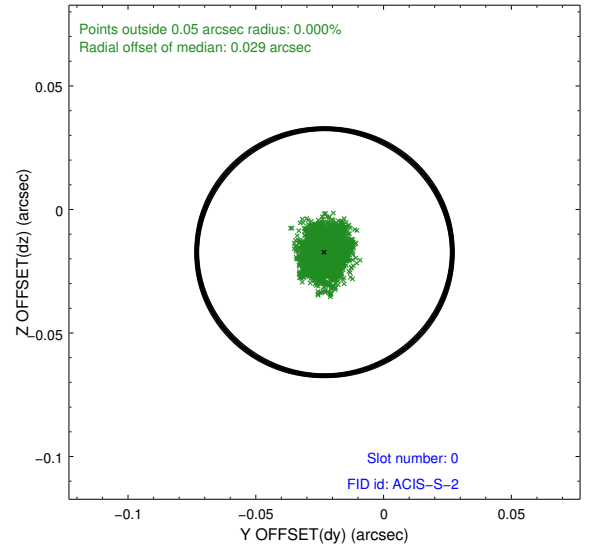
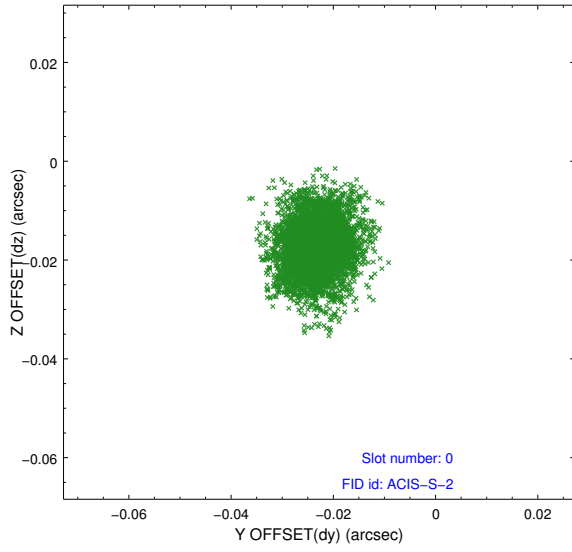


Time (s)

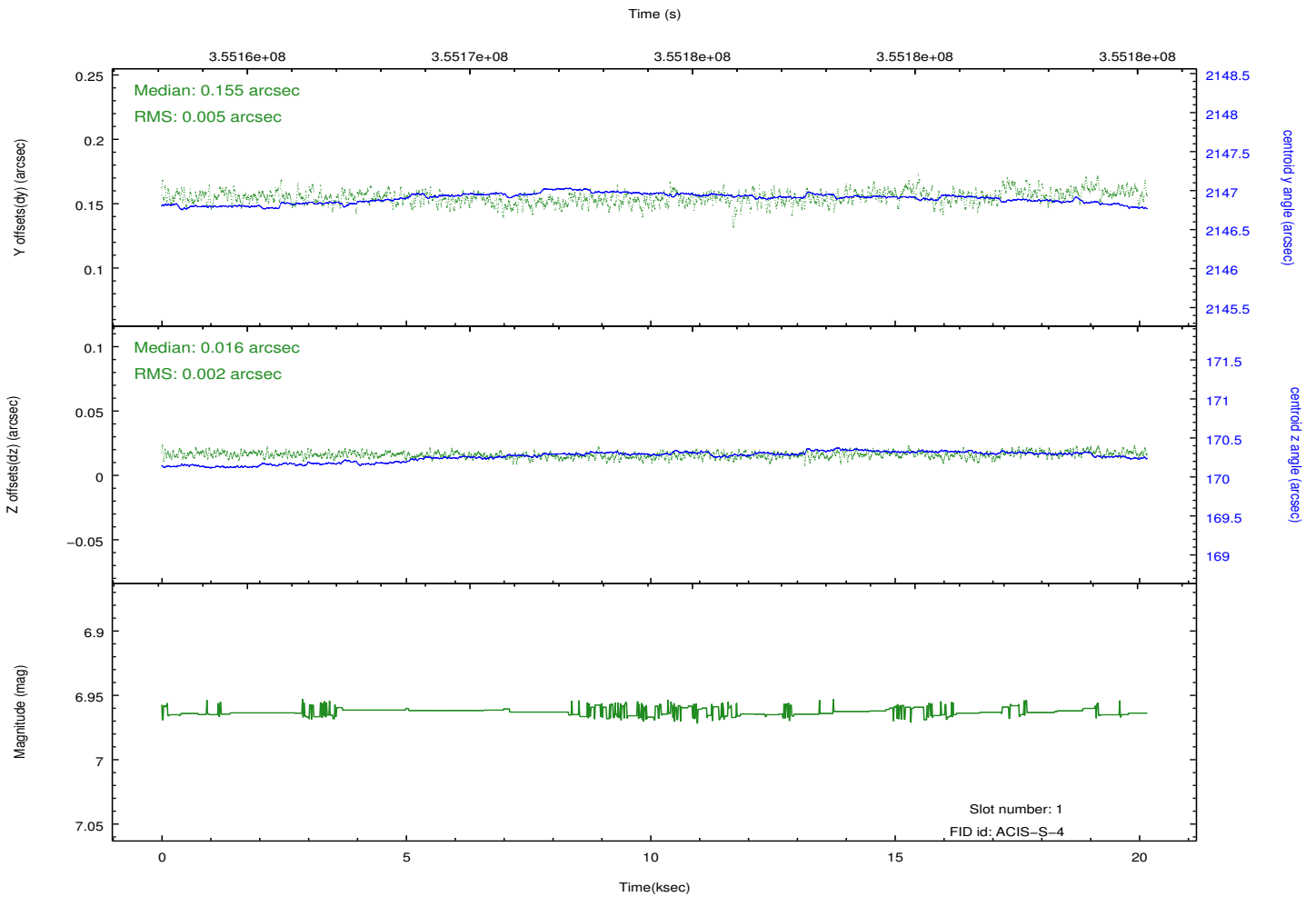
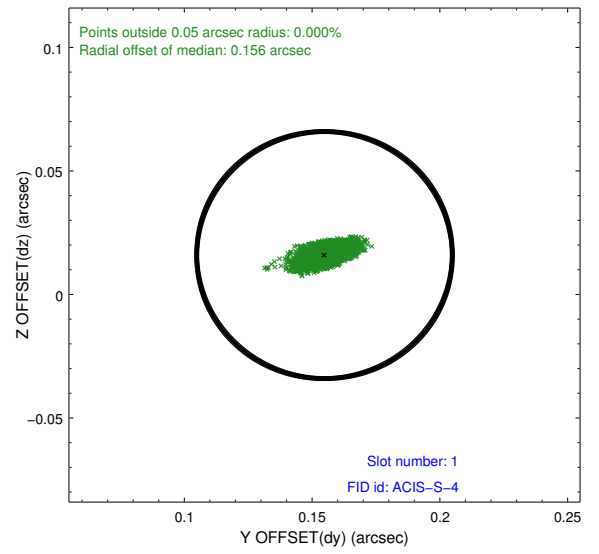
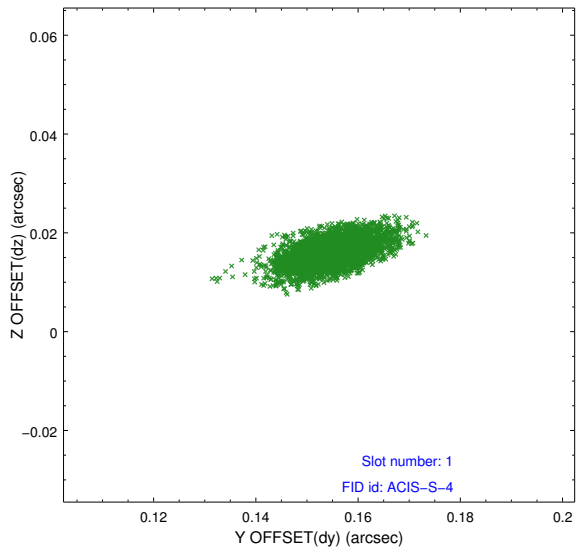


## 2.5 FID Slots

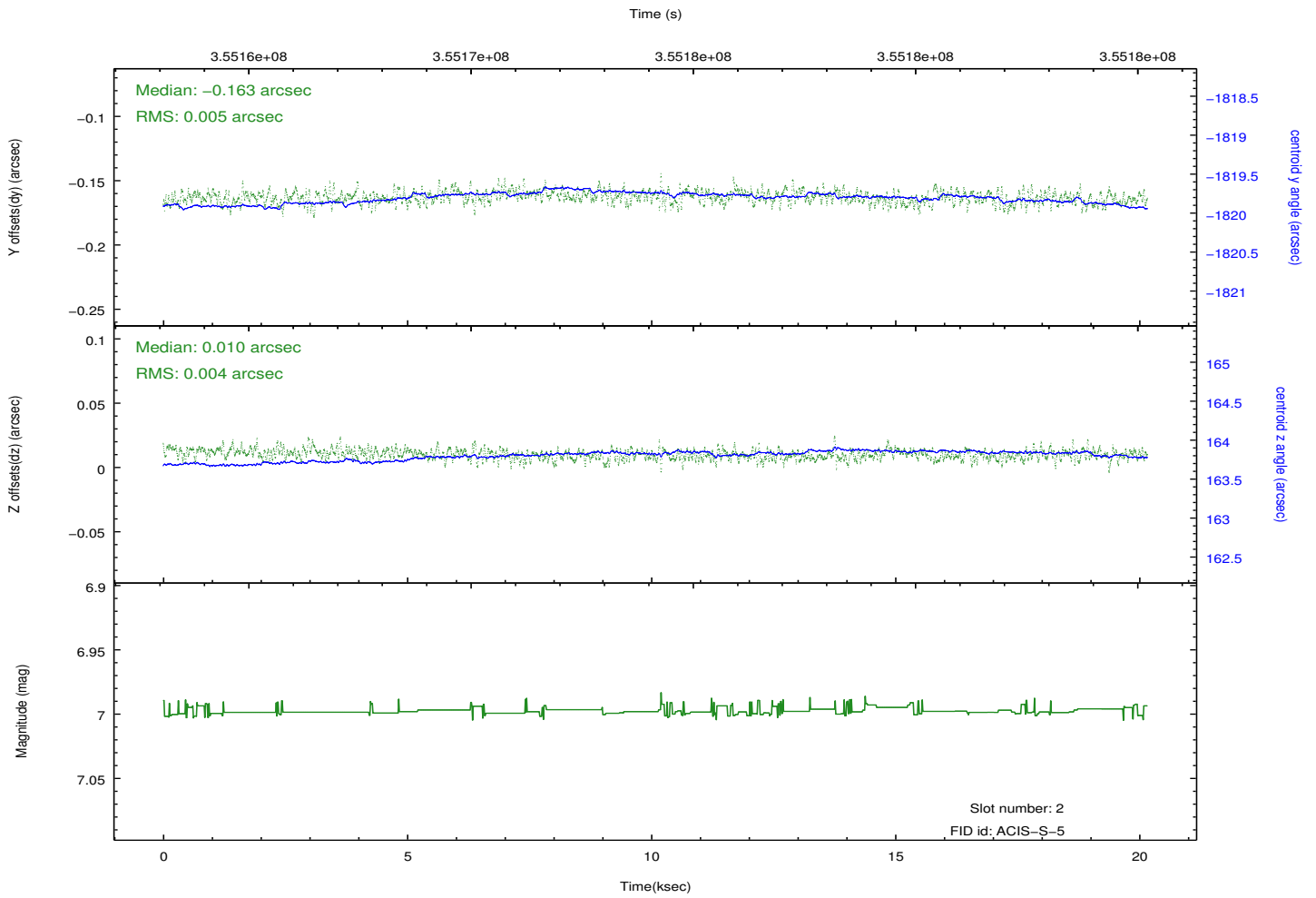
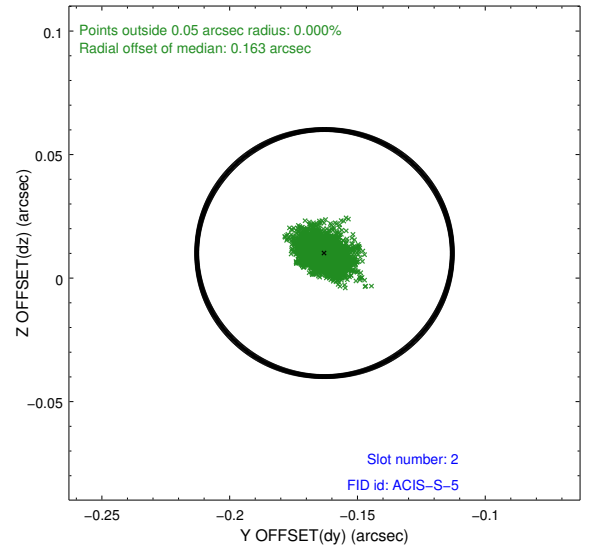
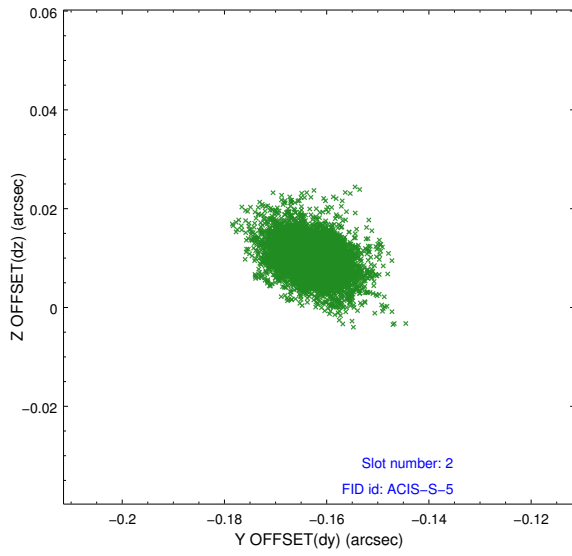
### 2.5.1 Slot 0



## 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)	2012.06.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.1599999

### A.2 Comments