

# V&V Reference Report

## L2 ASCDS Version : 10.3.3

Observation 17601 - L2 Version 1  
Chandra X-Ray Center

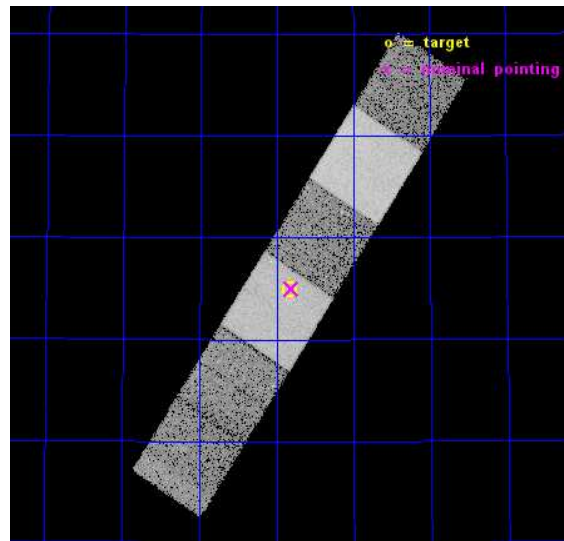
L2 Processing Date : Apr 7 2015

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# 1 Front

seq_num	702980	Sequence number
obs_id	17601	Observation id
title	LATE TIME MONITORING OF THE EXCEPTIONAL TIDAL DISRUPTION EVENT SWIFT J1644+57	Proposal title
observer	PROF ANDREW LEVAN	Principal investigator
object	Swift J1644+57	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	251.207917	Observer's specified target RA [deg]
dec_targ	57.583389	Observer's specified target Dec [deg]
ra_nom	251.20213444537	Nominal RA [deg]
dec_nom	57.583388743056	Nominal Dec [deg]
roll_nom	122.87357878536	Nominal Roll [deg]
revision	1	Processing version of data
ontime	18953.600282431	Sum of GTIs [s]
livetime	18713.598383167	Livetime [s]
ontime4	18950.359222174	Sum of GTIs [s]
ontime5	18953.600282431	Sum of GTIs [s]
ontime6	18950.359222174	Sum of GTIs [s]
ontime7	18953.600282431	Sum of GTIs [s]
ontime8	18947.118221879	Sum of GTIs [s]
ontime9	18953.600282431	Sum of GTIs [s]
l2events	156132	Number of level 2 events

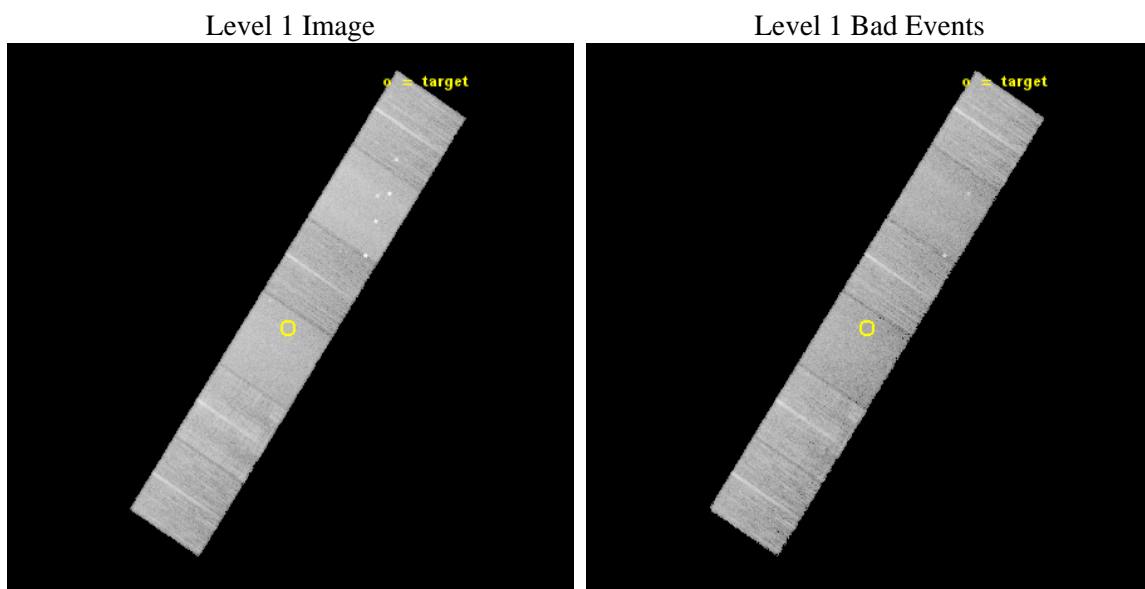




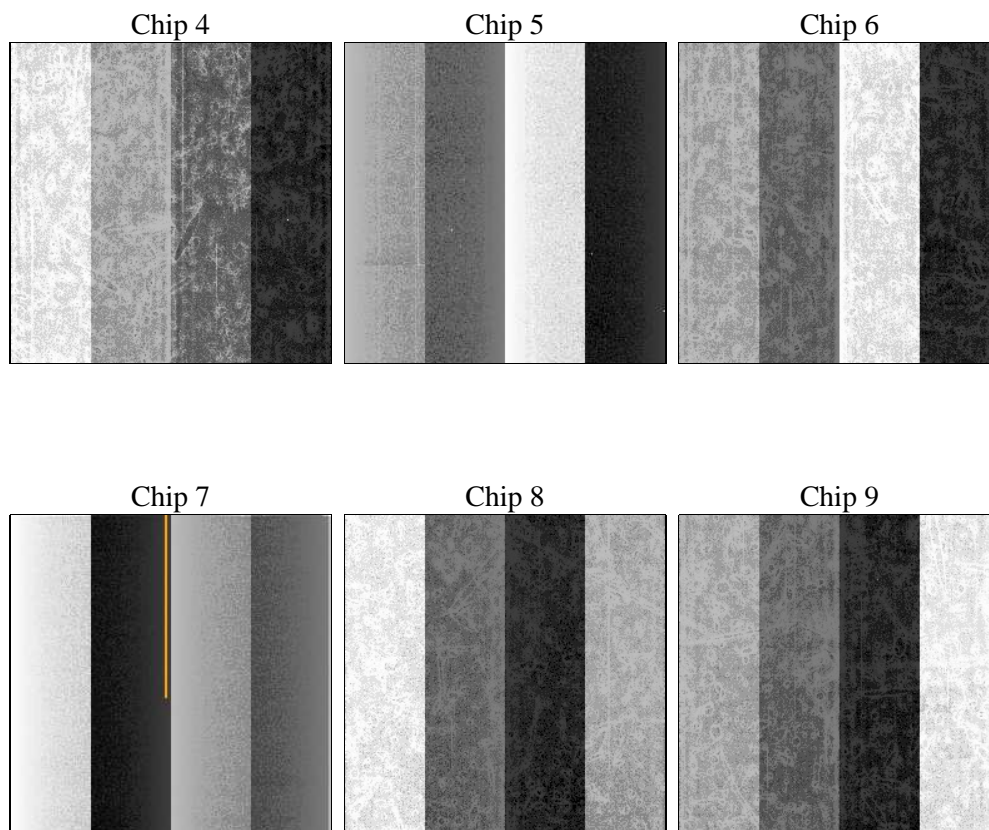
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	19000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	18953.600282431	Sum of GTIs [s]
caldsver	4.6.7	&#160	ontime4	18950.359222174	Sum of GTIs [s]
date	2015-04-07T12:12:44	Date and time of file creation	ontime5	18953.600282431	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	18950.359222174	Sum of GTIs [s]
			ontime7	18953.600282431	Sum of GTIs [s]
			ontime8	18947.118221879	Sum of GTIs [s]
			ontime9	18953.600282431	Sum of GTIs [s]
			l1events	686261	Number of level 1 events

### 2.1.4 Events

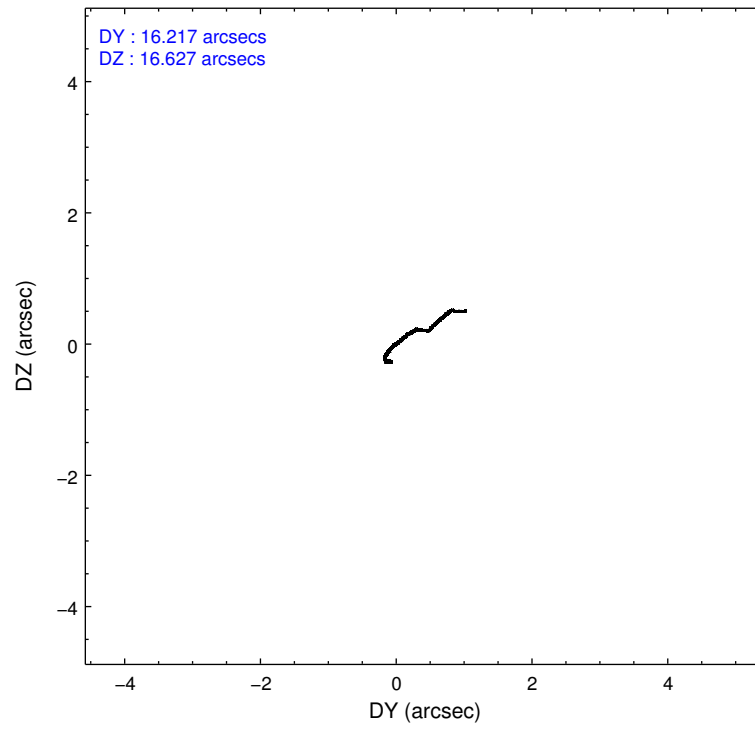
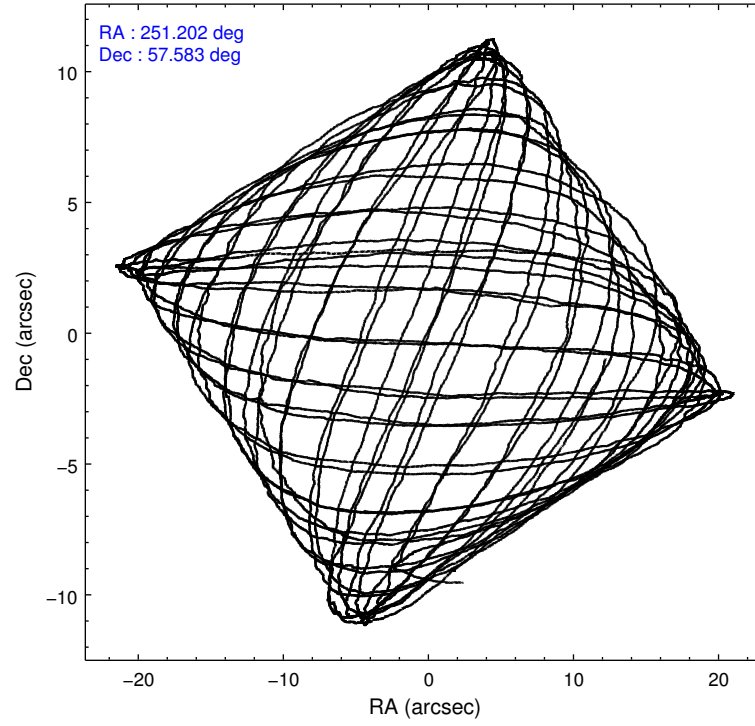
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	108250	150102	91918	122302	121645	92044	grade 0 events	4444	6395	3612	4303	8193	3977
rejected events	96916	78033	80949	70391	92506	80622		4%	4%	3%	3%	6%	4%
rejected %	89%	51%	88%	57%	76%	87%	grade 1 events	85	695	38	125	92	47
								0%	0%	0%	0%	0%	0%
							grade 2 events	2511	21734	2578	10817	7099	2460
								2%	14%	2%	8%	5%	2%
							grade 3 events	1169	2182	1080	3912	2997	1191
								1%	1%	1%	3%	2%	1%
							grade 4 events	1214	2028	999	3942	2887	1151
								1%	1%	1%	3%	2%	1%
							grade 5 events	4687	10057	4289	11758	6678	5114
								4%	6%	4%	9%	5%	5%
							grade 6 events	1999	39757	2701	28954	7977	2649
								1%	26%	2%	23%	6%	2%
							grade 7 events	92141	67254	76621	58491	85722	75455
								85%	44%	83%	47%	70%	81%

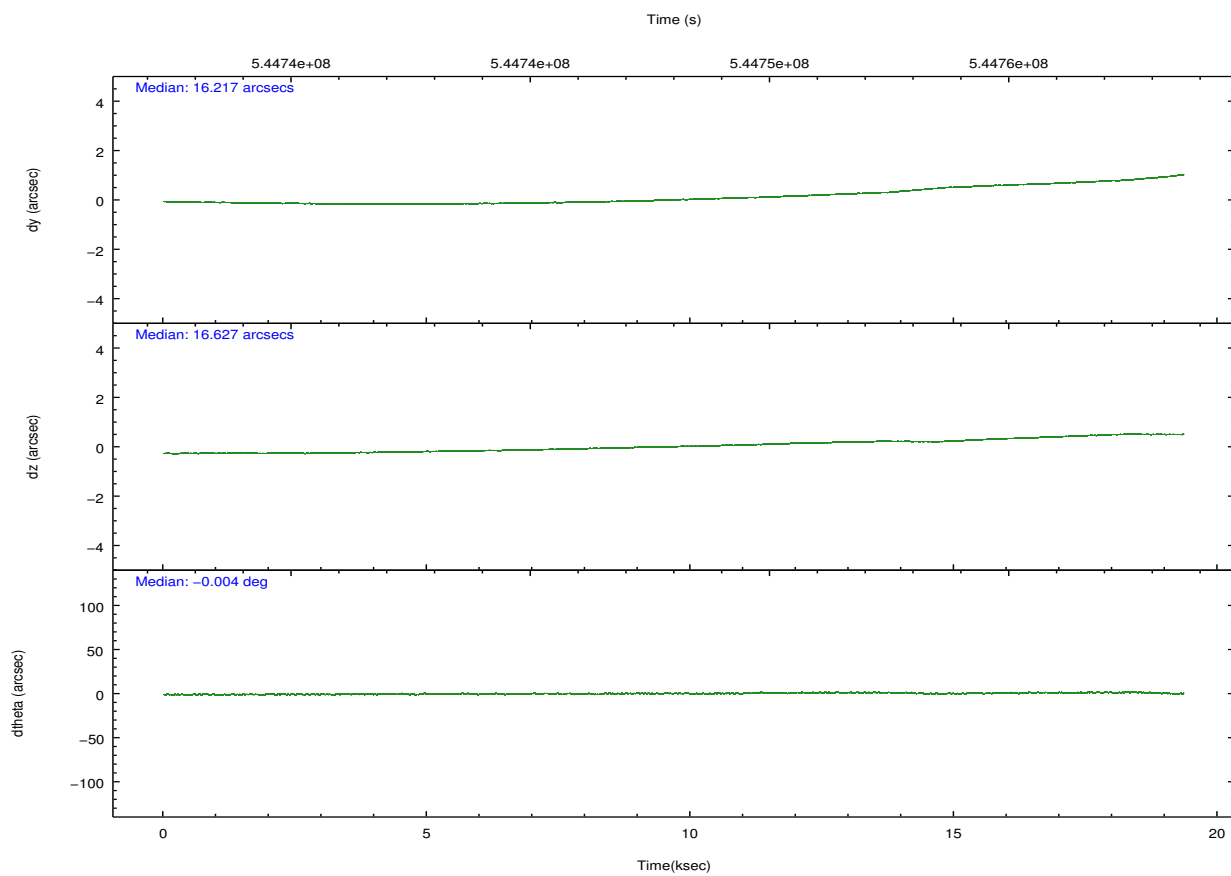
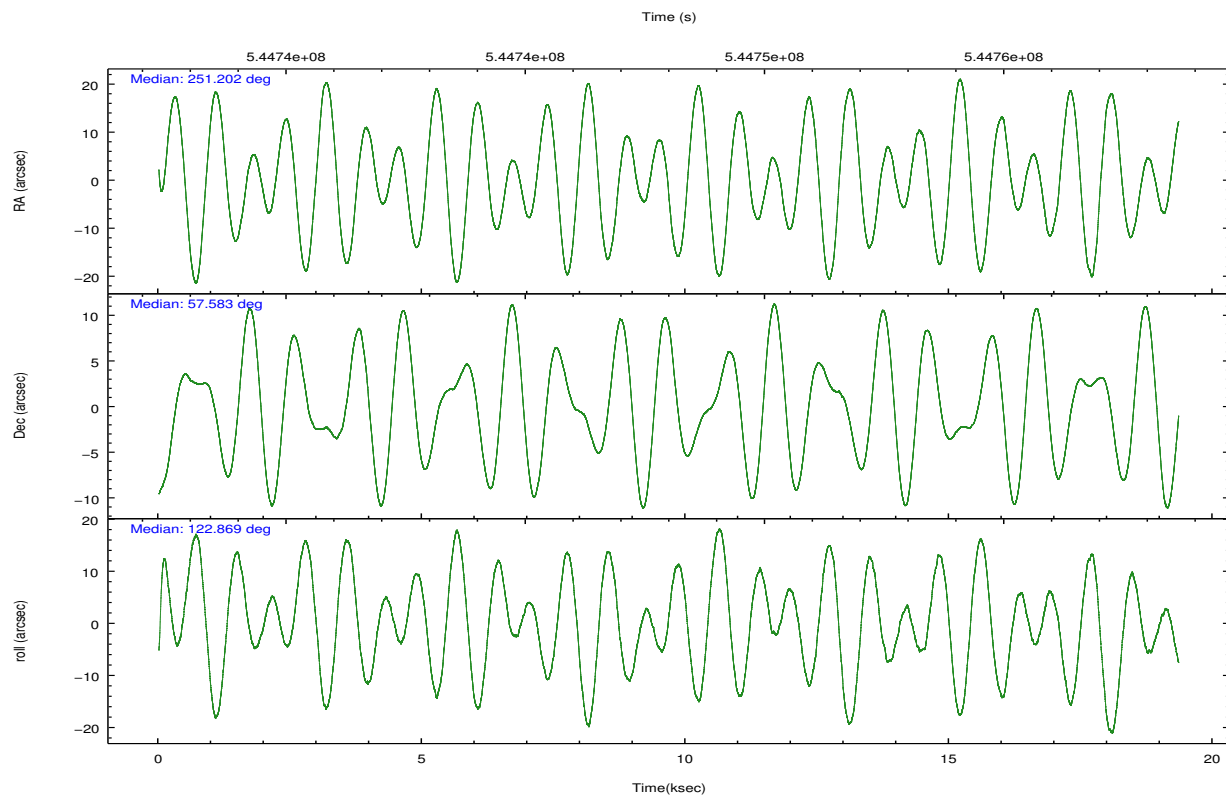
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-456789	ACIS-456789
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	251.247961	251.2021344453677
[deg] Pointing Dec	57.571233	57.58338874305612
[deg] Pointing Roll	122.678275	122.8735787853577
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1425803651734
[mm] SIM translation stage offset	0	0.01005778216563158
[s] Observation start time (MET)	544738674.184000	544737631.2523299
Observation start date	2015-04-06T20:16:47	2015-04-06T20:00:31
[s] Observation end time (MET)	544757674.184000	544758312.16599
Observation end date	2015-04-07T01:33:27	2015-04-07T01:45:12
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	N	N
CCD I3 on	N	N
CCD S0 on	O1	Y
CCD S1 on	O2	Y
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	O4	Y
CCD S5 on	O3	Y
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



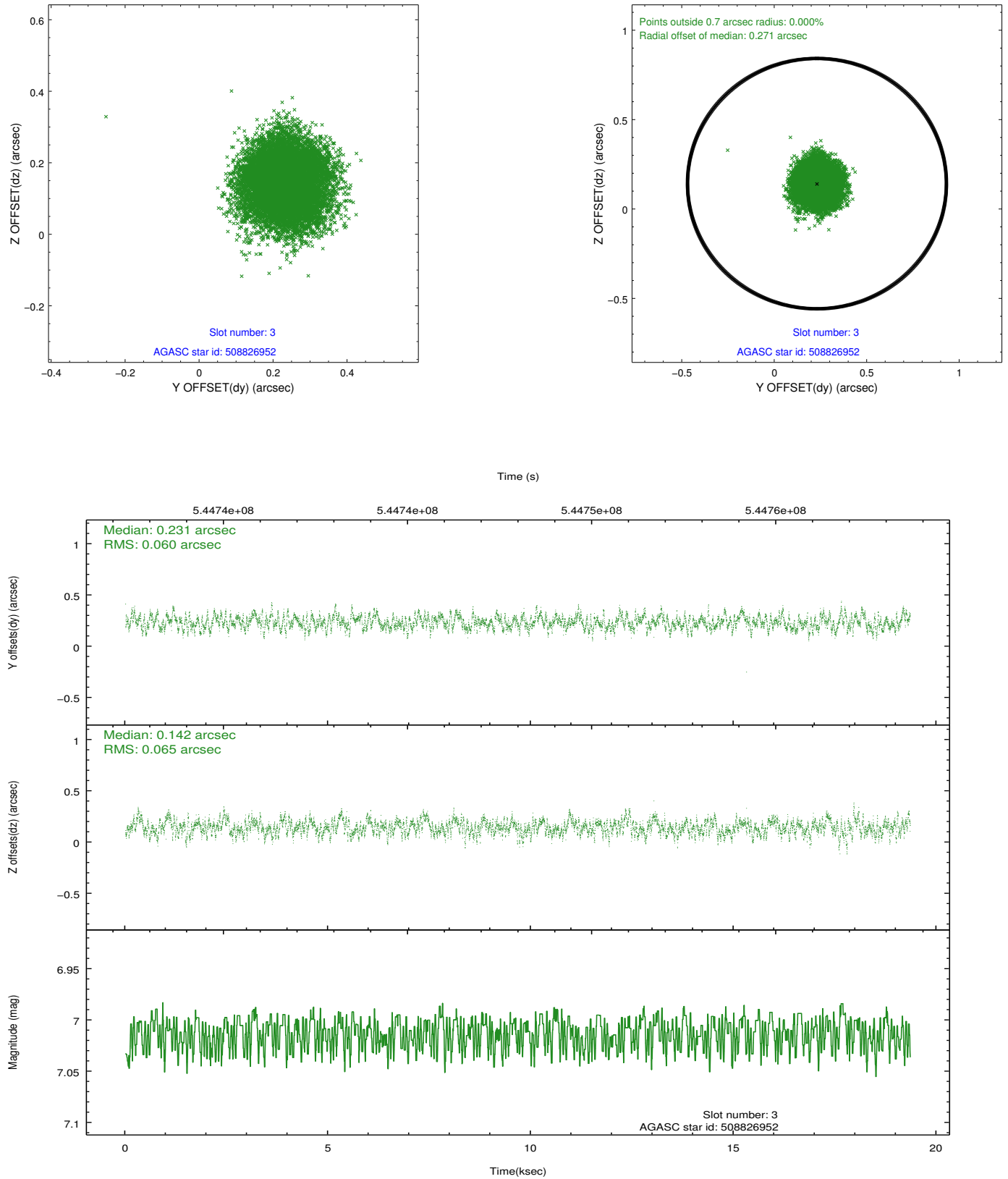


Slot Statistics

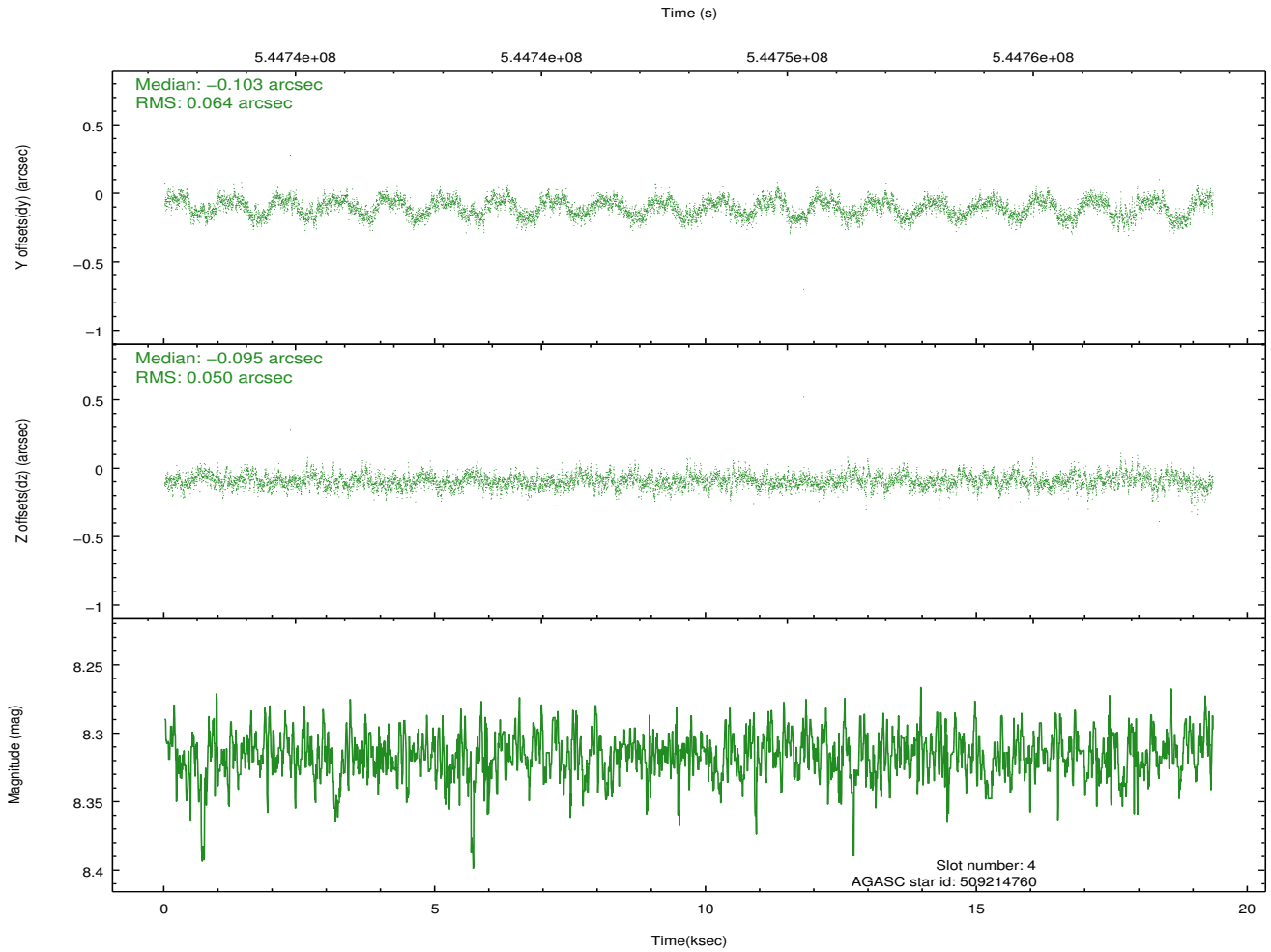
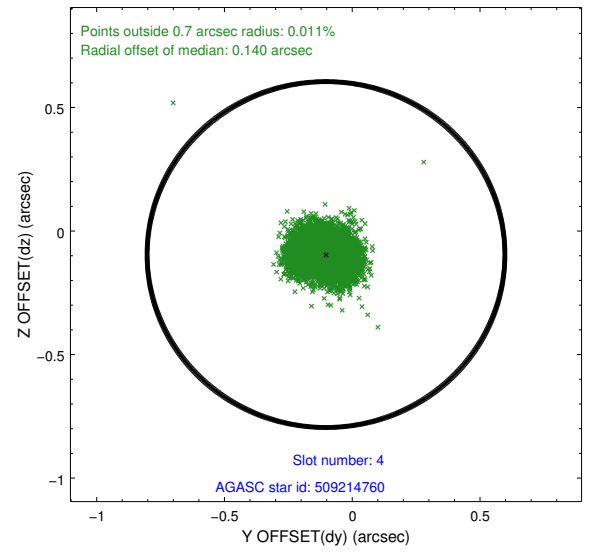
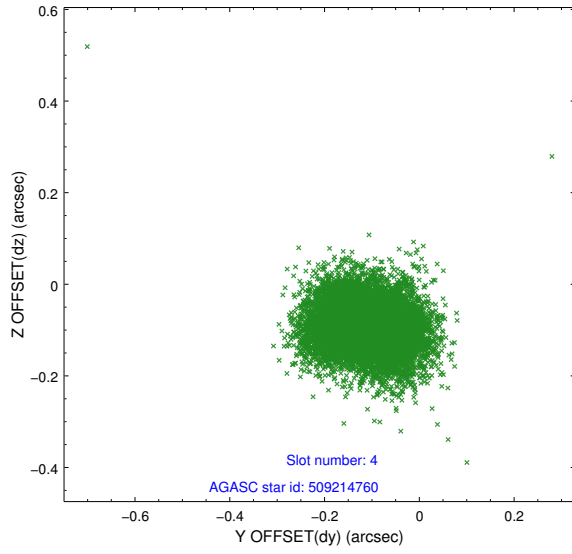
lot	status	used	id	mag	n_pts	med_dy	med_dz	drl	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-2	7.08	4719	-0.116	-0.055	0.017	0.028	0.000000	0.000000	-769.49	-1738.10
1	FID		ACIS-S-4	7.17	4719	0.316	0.070	0.006	0.011	0.000000	0.000000	2144.12	170.37
2	FID		ACIS-S-5	7.20	4719	-0.232	-0.007	0.018	0.032	0.000000	0.000000	-1822.20	164.17
3	GUIDE	used	508826952	7.01	9438	0.231	0.142	0.096	0.149	252.003832	57.489272	-1030.72	-1075.97
4	GUIDE	used	509214760	8.32	9432	-0.103	-0.095	0.087	0.137	250.589992	57.556199	645.75	1095.47
5	GUIDE	used	509223192	7.74	9371	-0.018	0.141	0.073	0.117	251.320493	58.085113	1483.11	-1114.56
6	BAD	used	509225640	5.08	5899	-0.091	-0.008	0.061	0.102	252.069297	57.813712	-106.66	-1801.79
7	GUIDE	used	509228136	9.23	9424	-0.039	-0.184	0.152	0.238	249.958671	57.735608	1855.20	1753.38

## 2.4 Star Slots

### 2.4.1 Slot 3

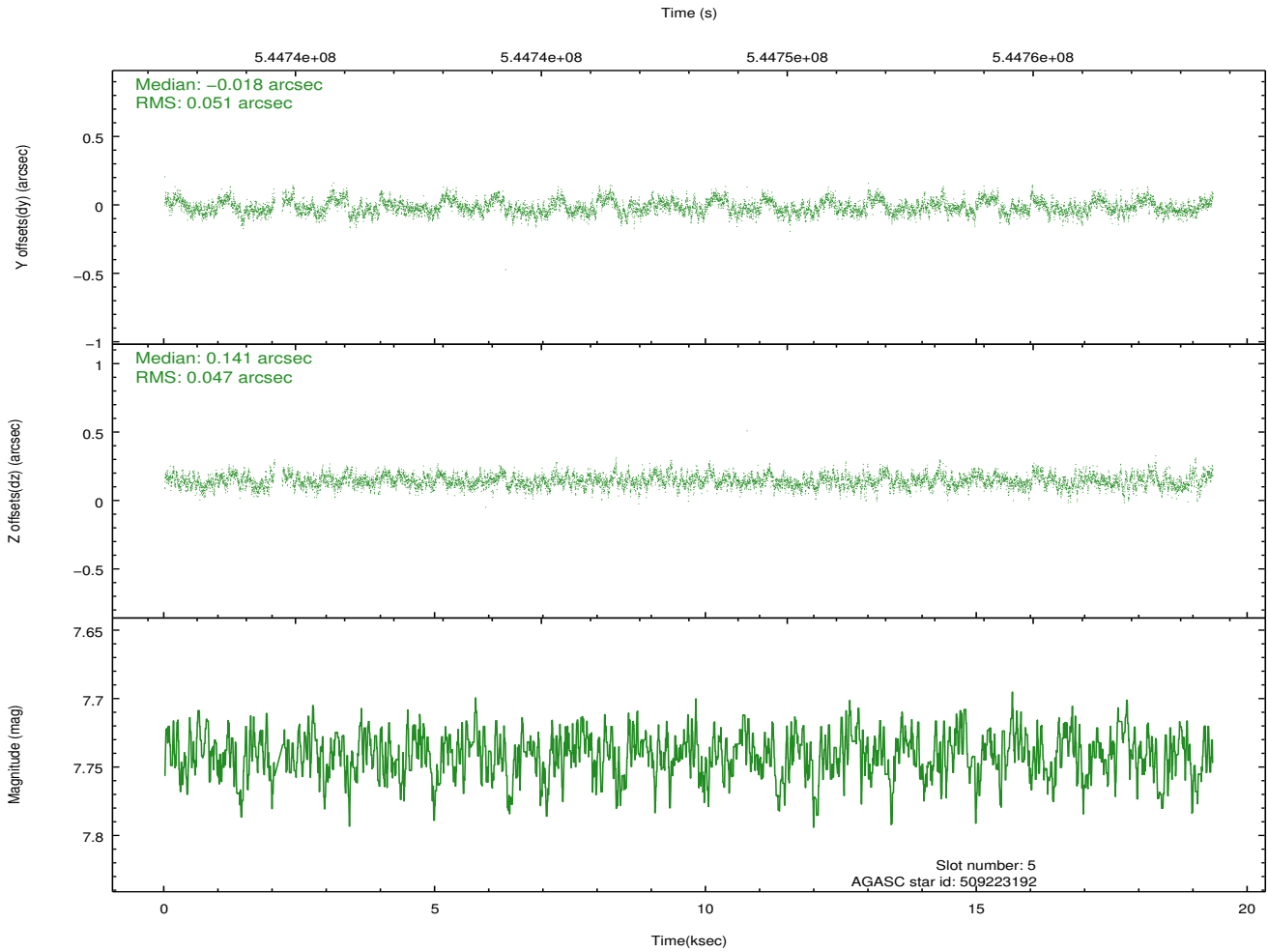
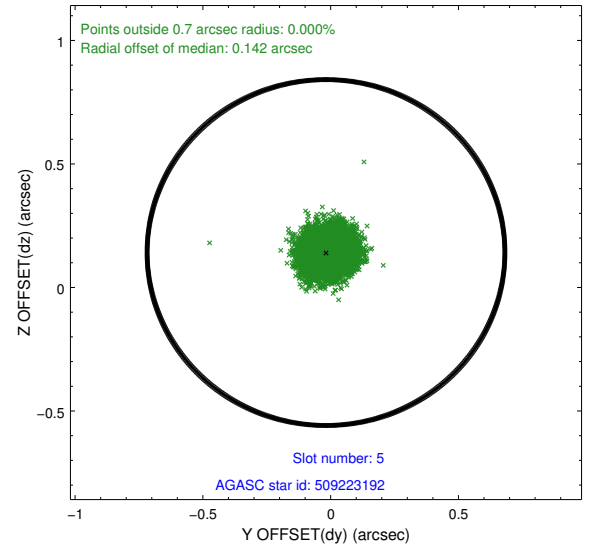
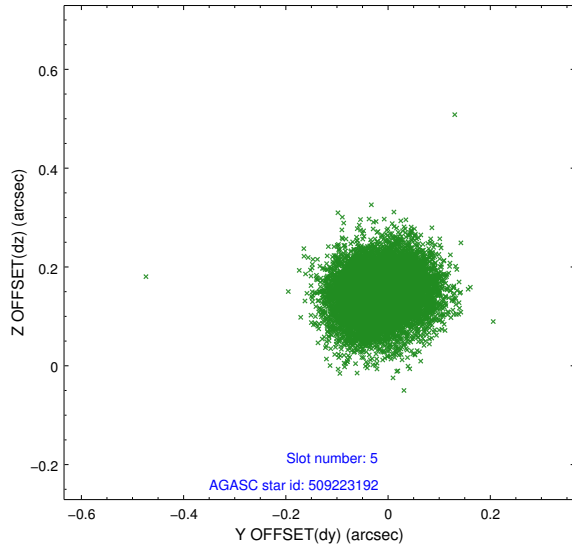


## 2.4.2 Slot 4

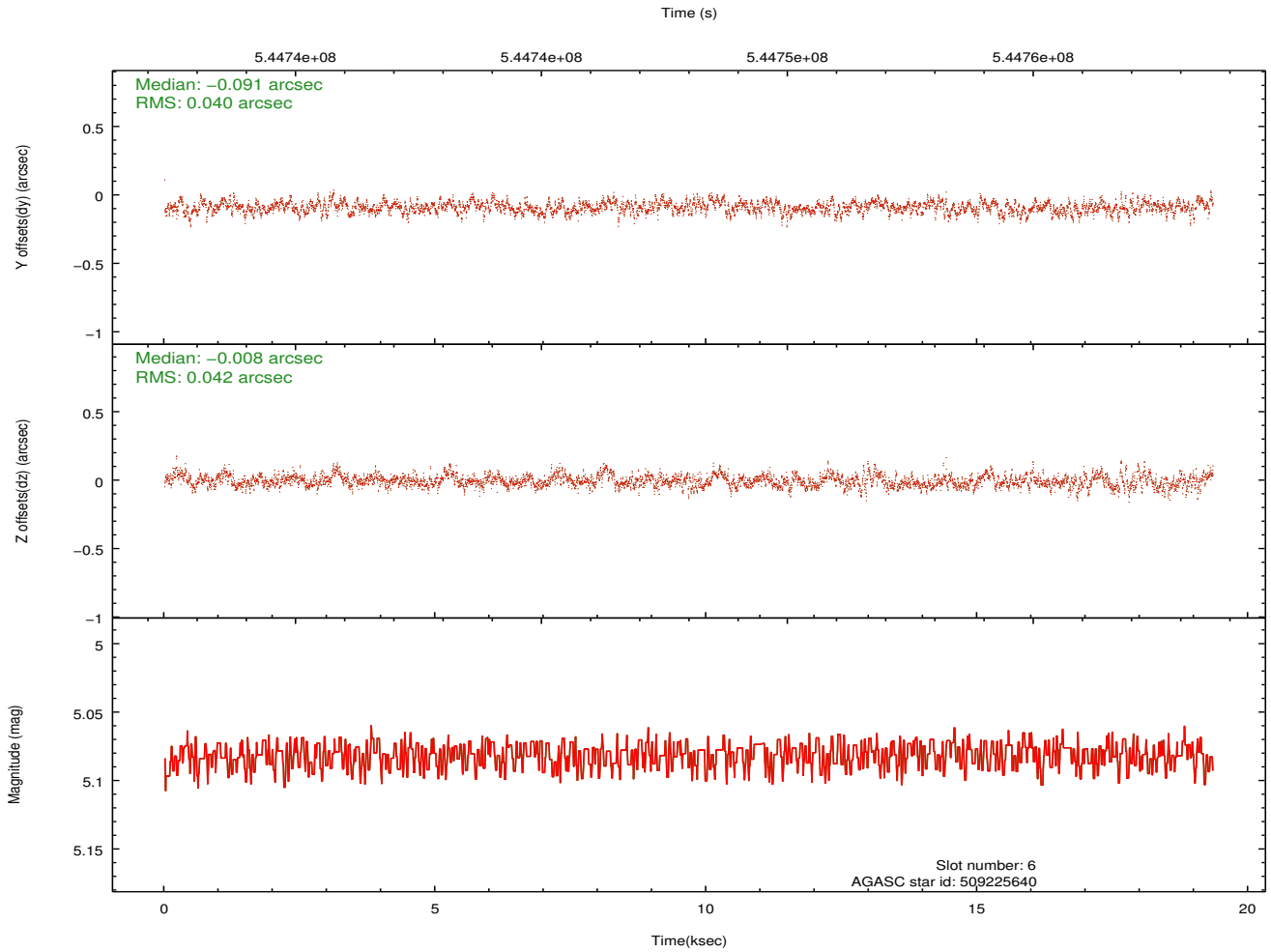
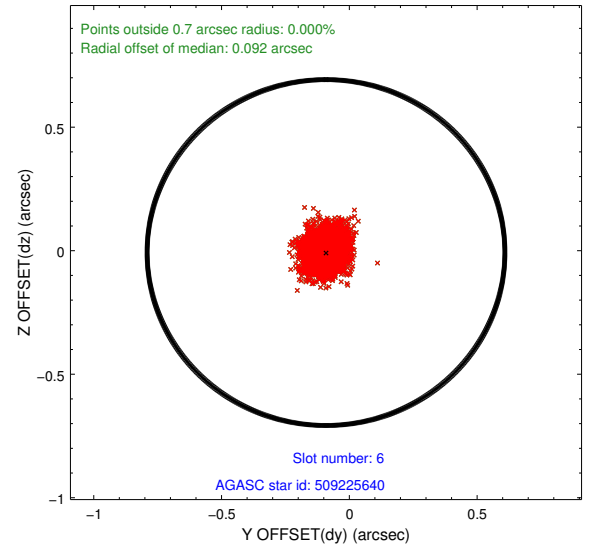
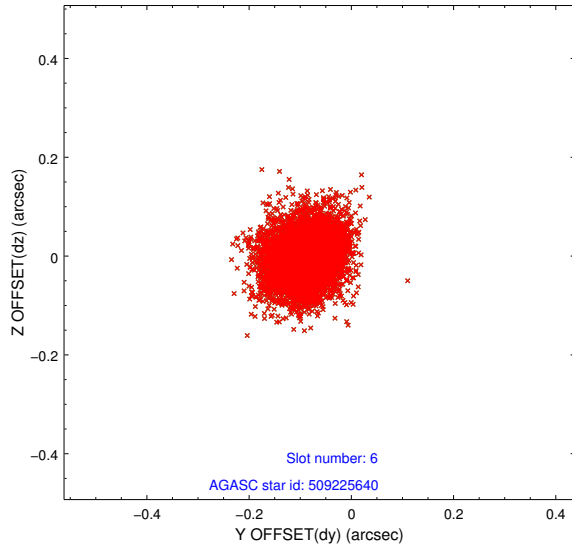




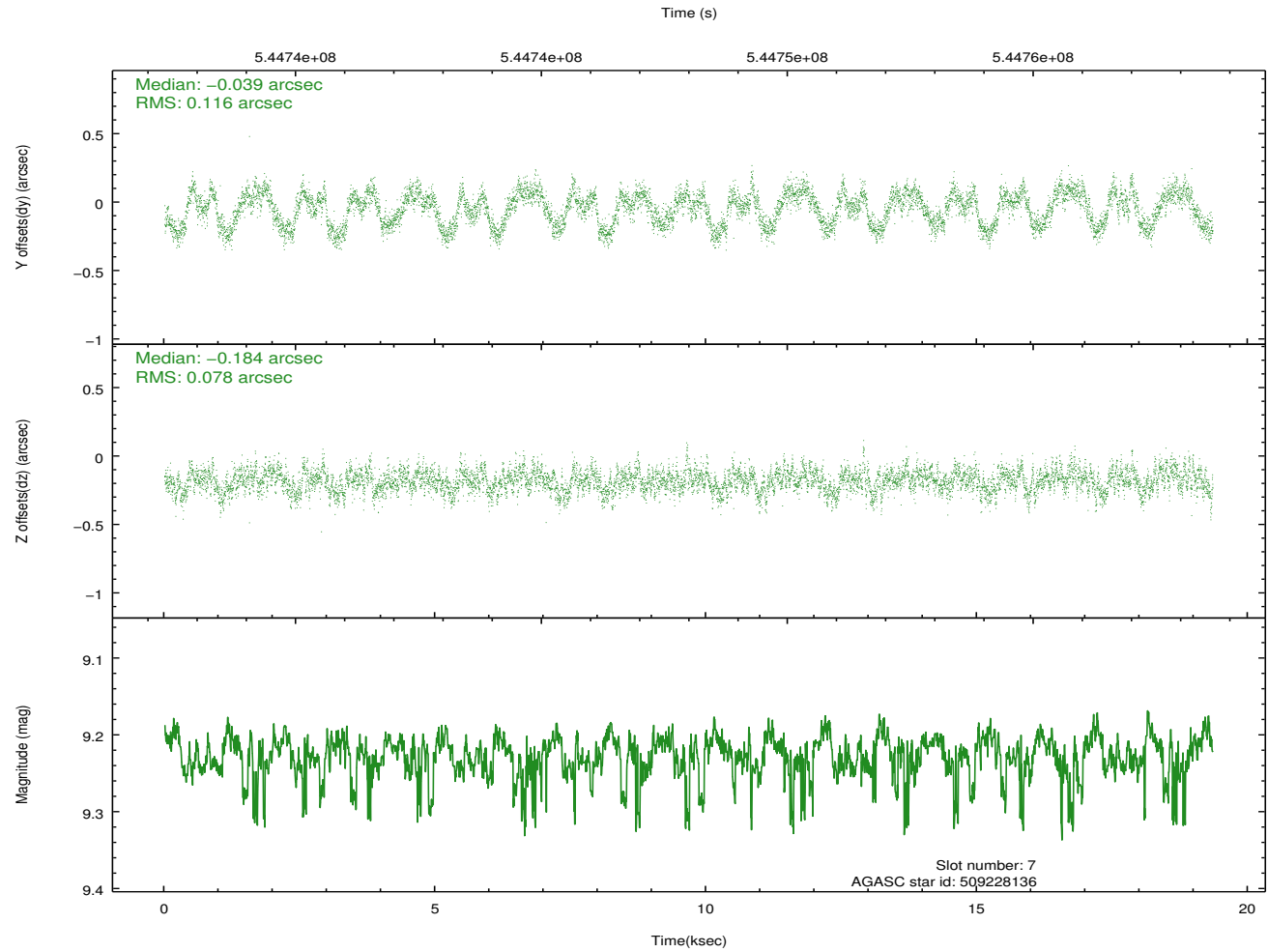
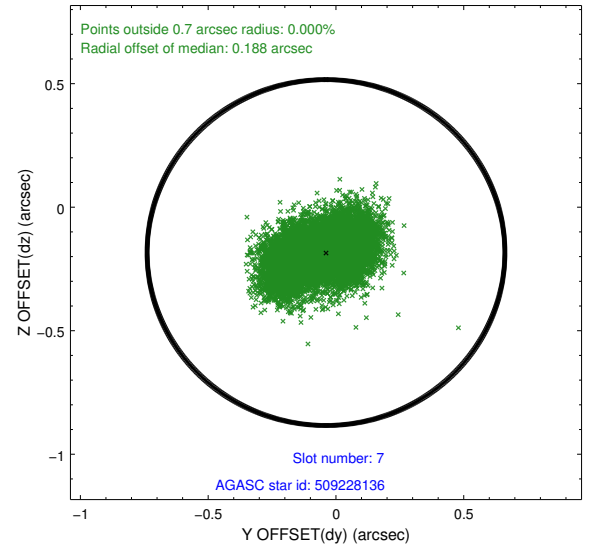
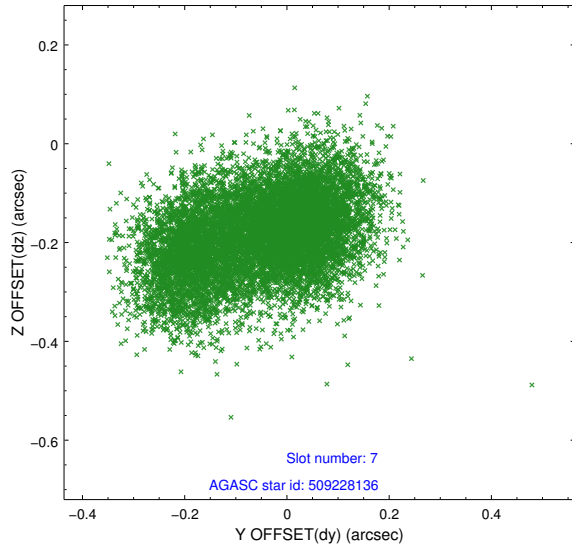
### 2.4.3 Slot 5



## 2.4.4 Slot 6

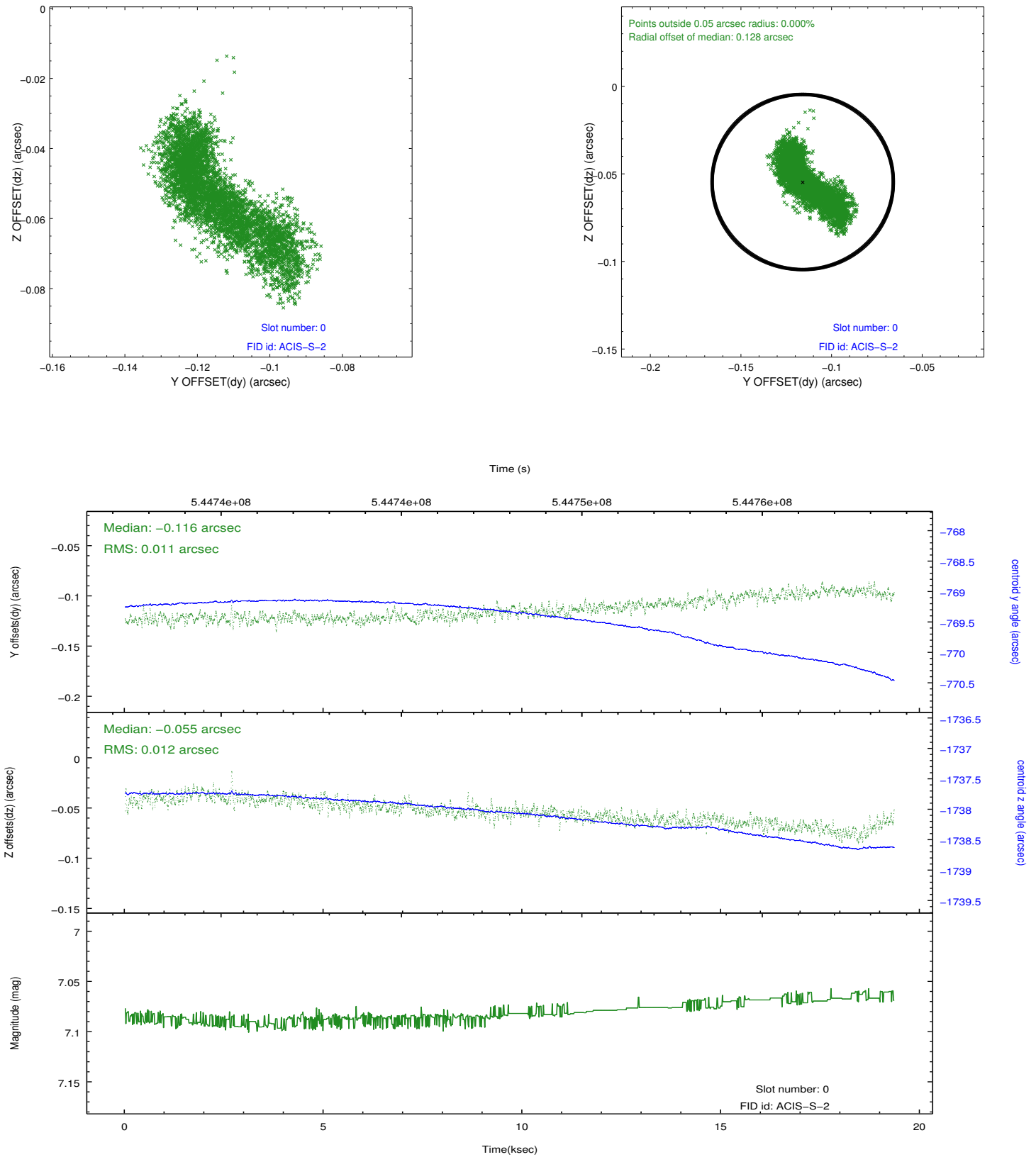


## 2.4.5 Slot 7

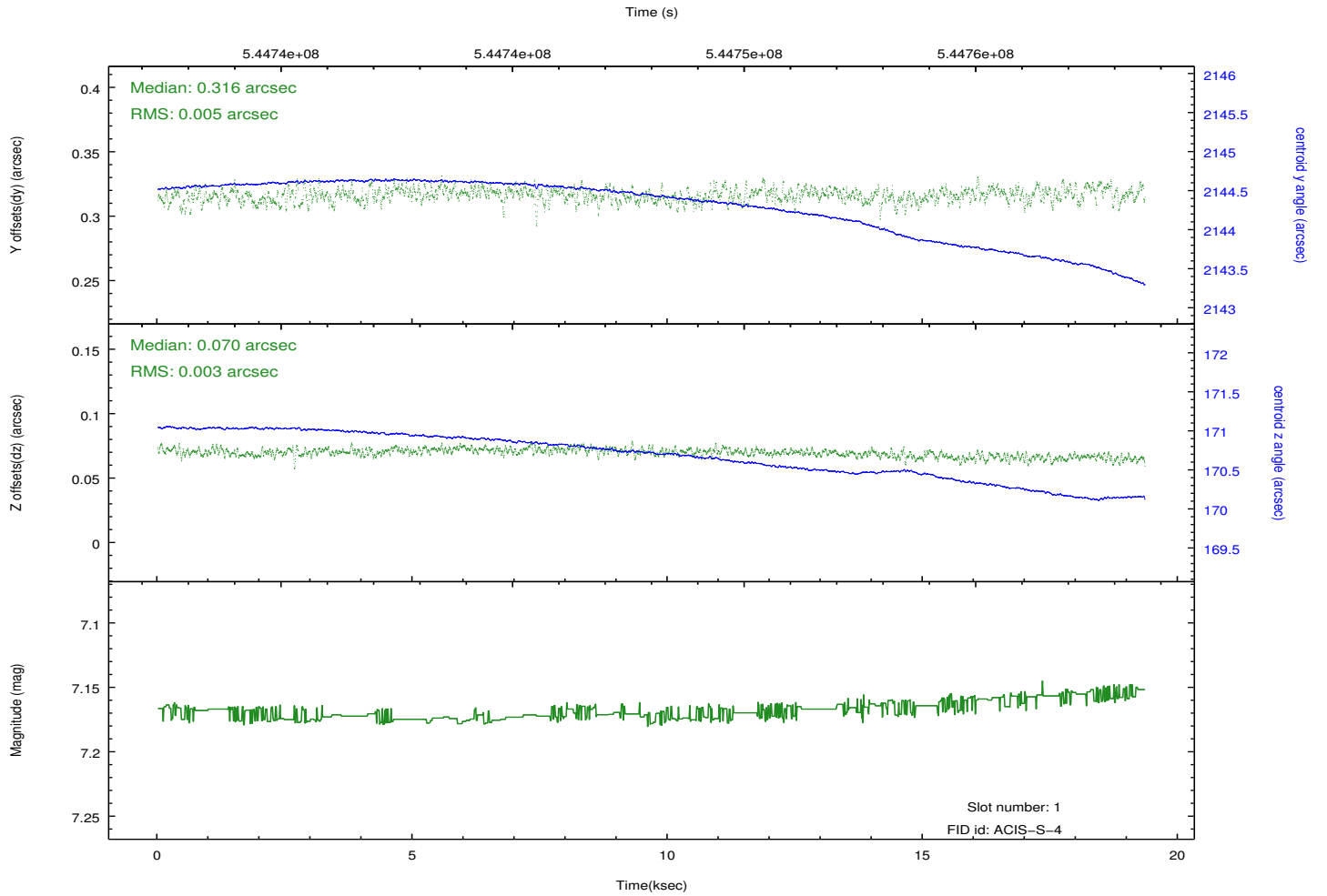
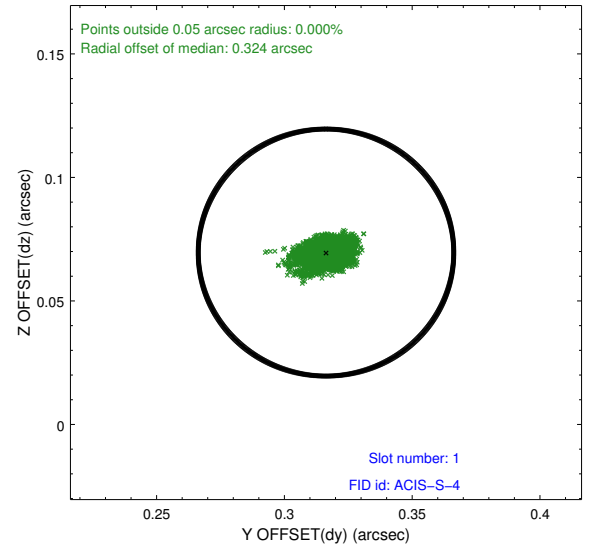
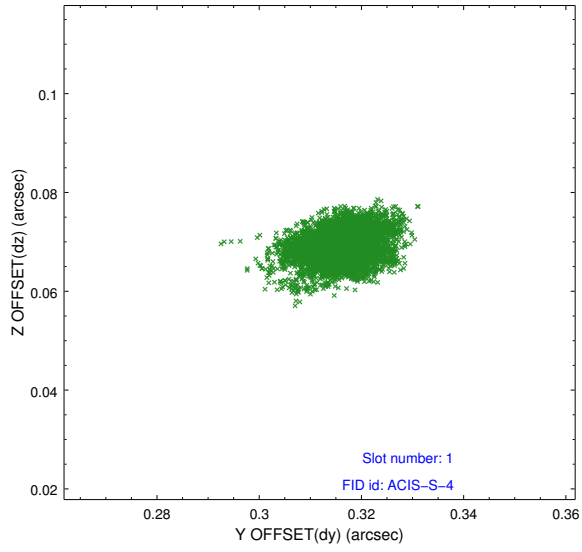


## 2.5 FID Slots

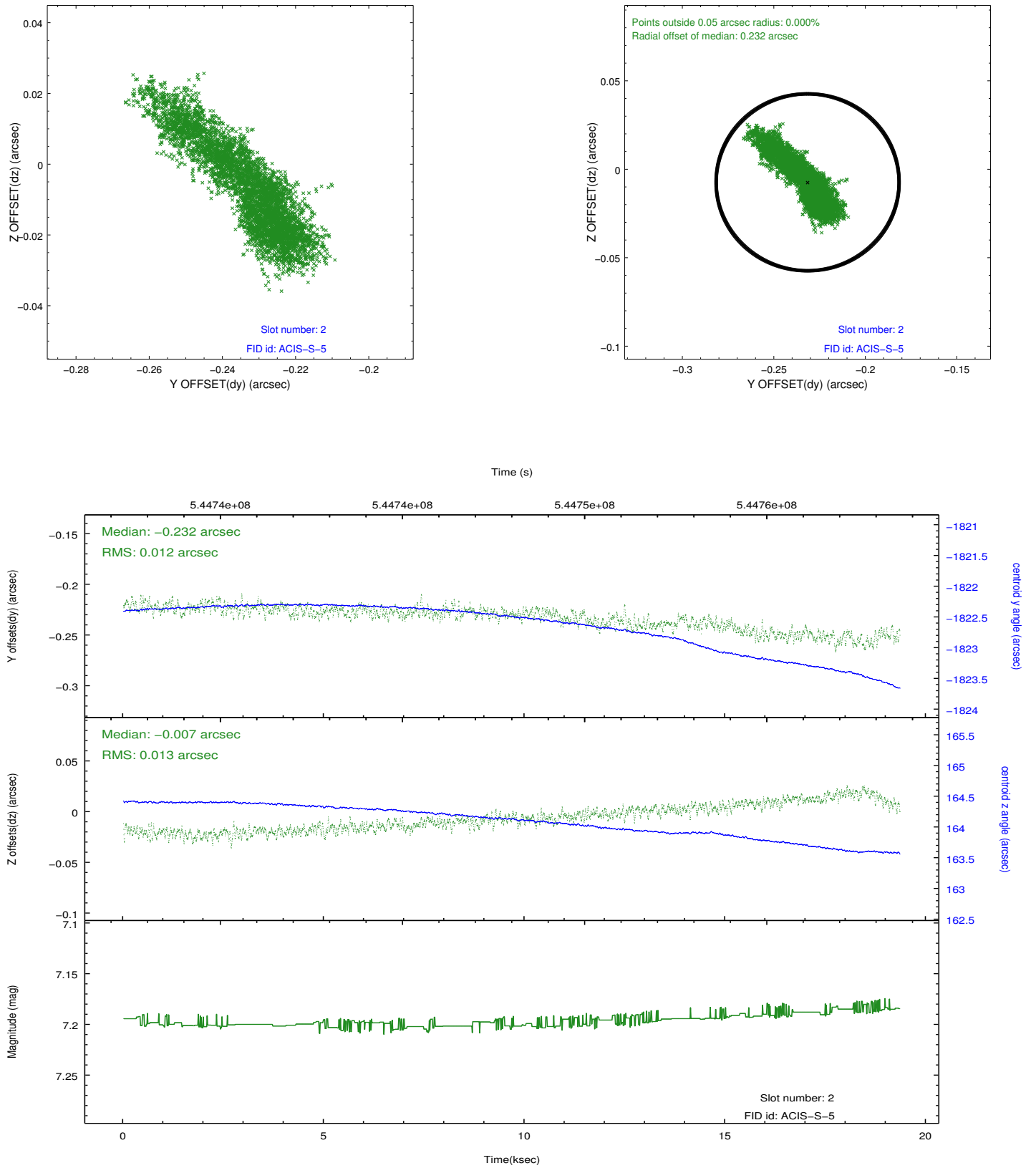
### 2.5.1 Slot 0



## 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)	2015.04.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	18.953600282431

### A.2 Comments