

# V&V Reference Report

## L2 ASCDS Version : 10.5.4

Observation 19214 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : May 9 2017

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# 1 Front

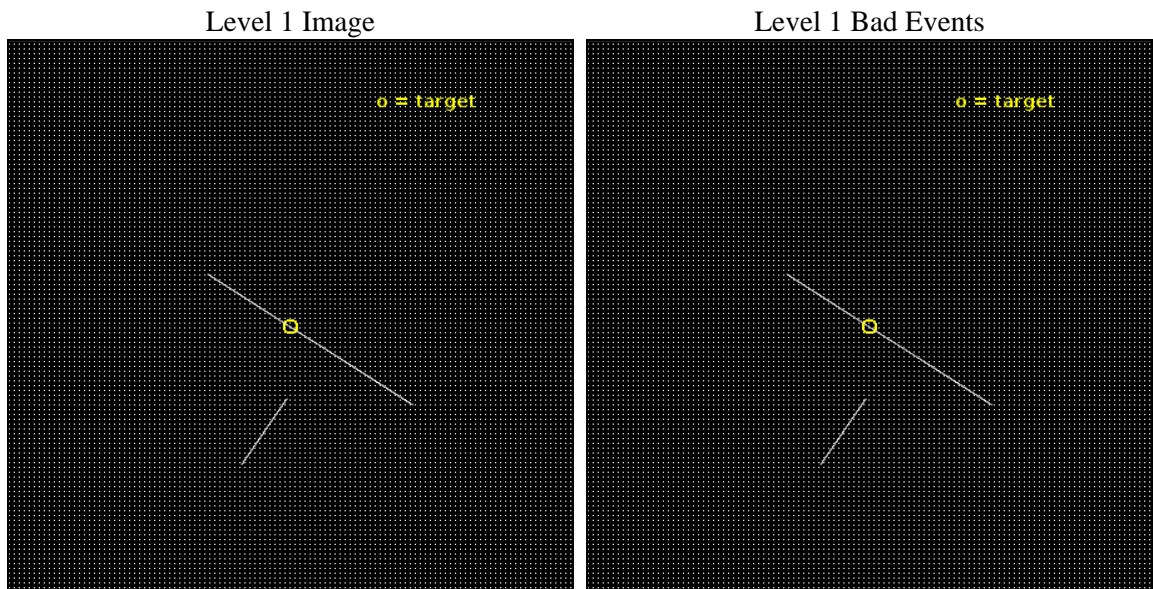
seq_num	502864	Sequence number
obs_id	19214	Observation id
title	Target-of-Opportunity Chandra Observations of Magnetars in Outburst	&#160
observer	Victoria Kaspi	Principal investigator
object	PSR J1622-4950	Source name
ra_targ	245.686667	Observer's specified target RA [deg]
dec_targ	-49.848444	Observer's specified target Dec [deg]
ra_nom	245.68780985135	Nominal RA [deg]
dec_nom	-49.842767937497	Nominal Dec [deg]
roll_nom	33.575255906582	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10106.75	Sum of GTIs [s]
livetime	10067.270507812	Livetime [s]
ontime3	10106.75	Sum of GTIs [s]
ontime6	10106.75	Sum of GTIs [s]
ontime7	10106.75	Sum of GTIs [s]
ontime8	10106.75	Sum of GTIs [s]
l2events	81357	Number of level 2 events



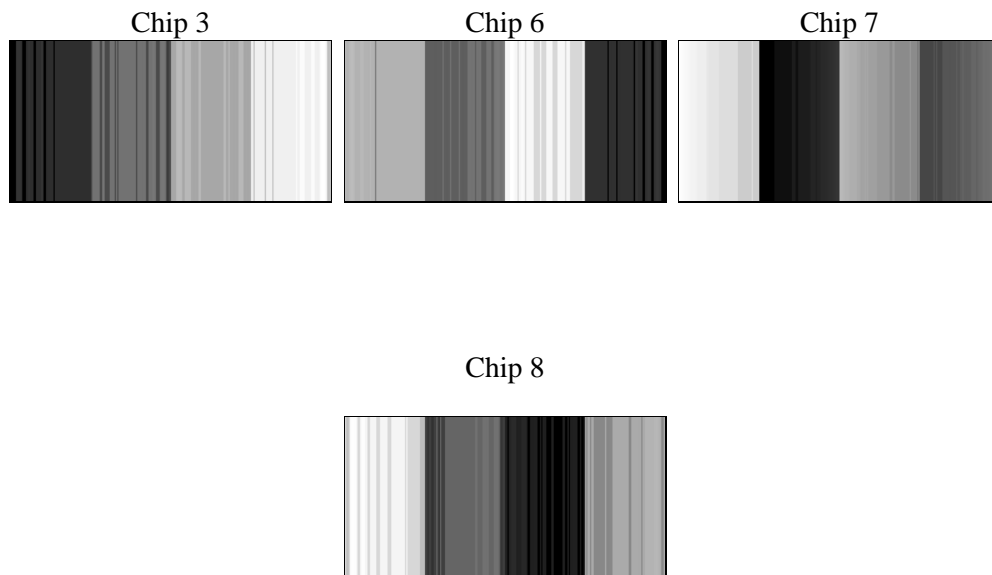
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.4	Processing system revision	ontime	10106.75	Sum of GTIs [s]
caldsver	4.7.4	&#160	ontime3	10106.75	Sum of GTIs [s]
date	2017-05-09T05:29:12	Date and time of file creation	ontime6	10106.75	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	10106.75	Sum of GTIs [s]
			ontime8	10106.75	Sum of GTIs [s]
			l1events	610613	Number of level 1 events

### 2.1.4 Events

	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	132001	126389	145695	206528
rejected events	120442	113326	97465	174414
rejected %	91%	89%	66%	84%

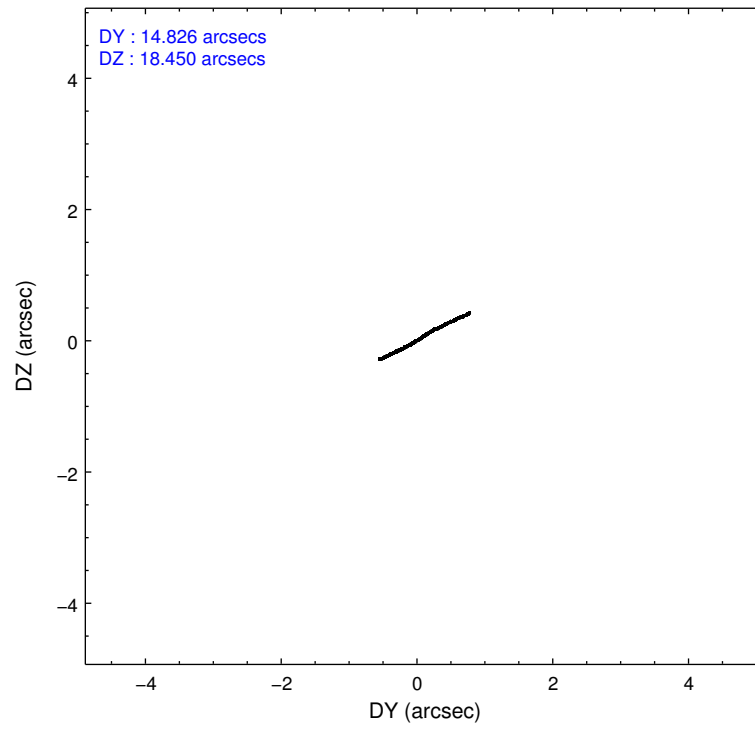
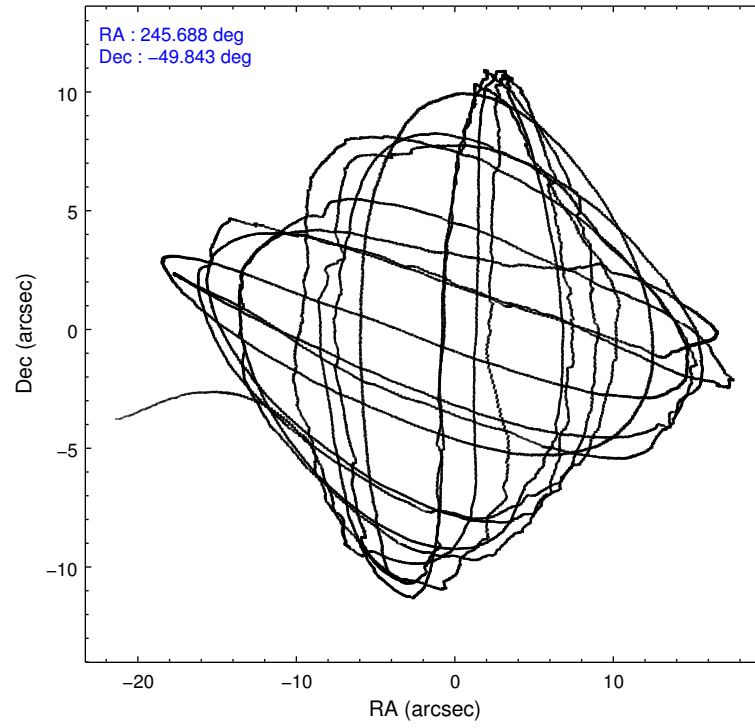
	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	1368	1511	3405	6774
	1%	1%	2%	3%
grade 1 events	66	73	142	144
	0%	0%	0%	0%
grade 2 events	4298	5000	13143	9942
	3%	3%	9%	4%
grade 3 events	1565	1664	2529	3362
	1%	1%	1%	1%
grade 4 events	1409	1542	2438	3300
	1%	1%	1%	1%
grade 5 events	3611	3837	9017	5423
	2%	3%	6%	2%
grade 6 events	2943	3370	26855	8818
	2%	2%	18%	4%
grade 7 events	116741	109392	88166	168765
	88%	86%	60%	81%

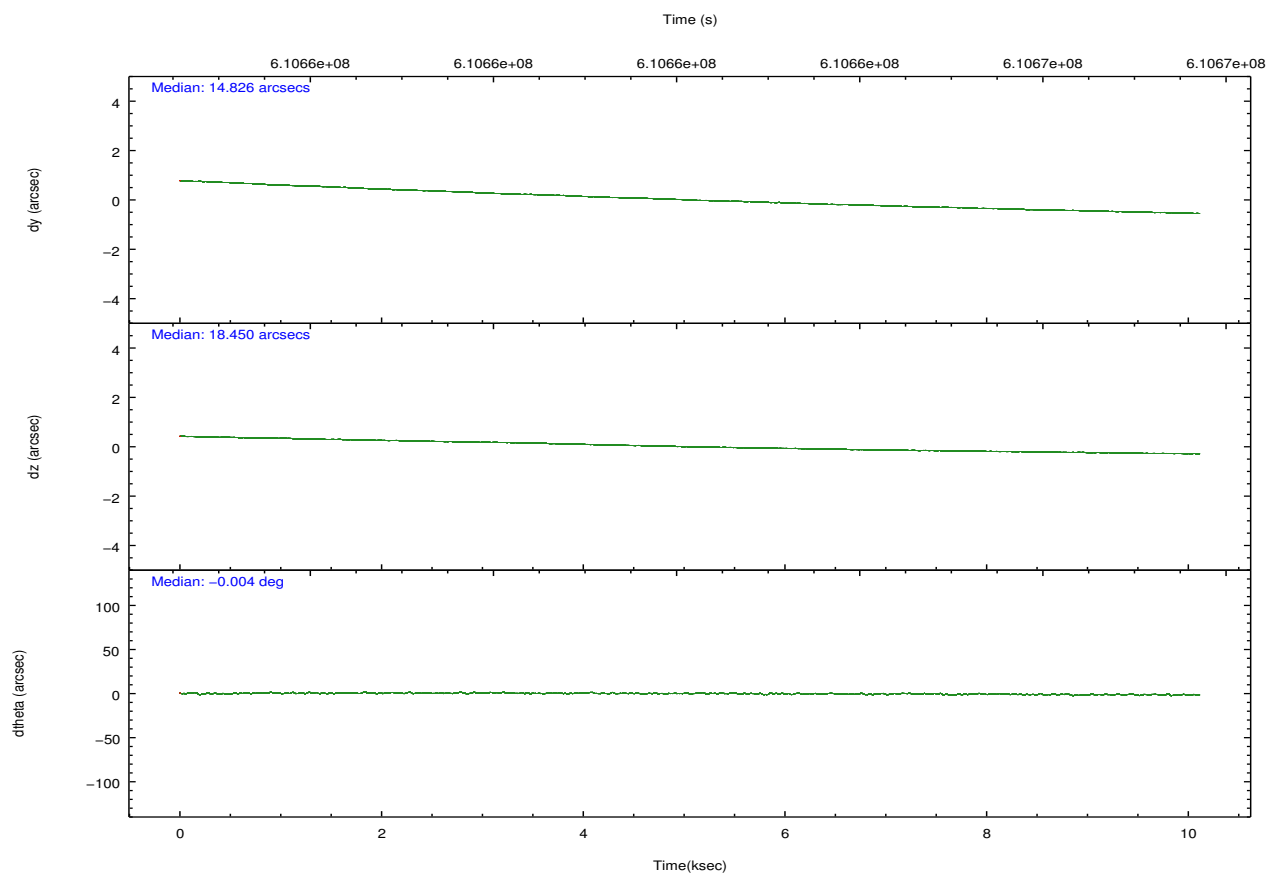
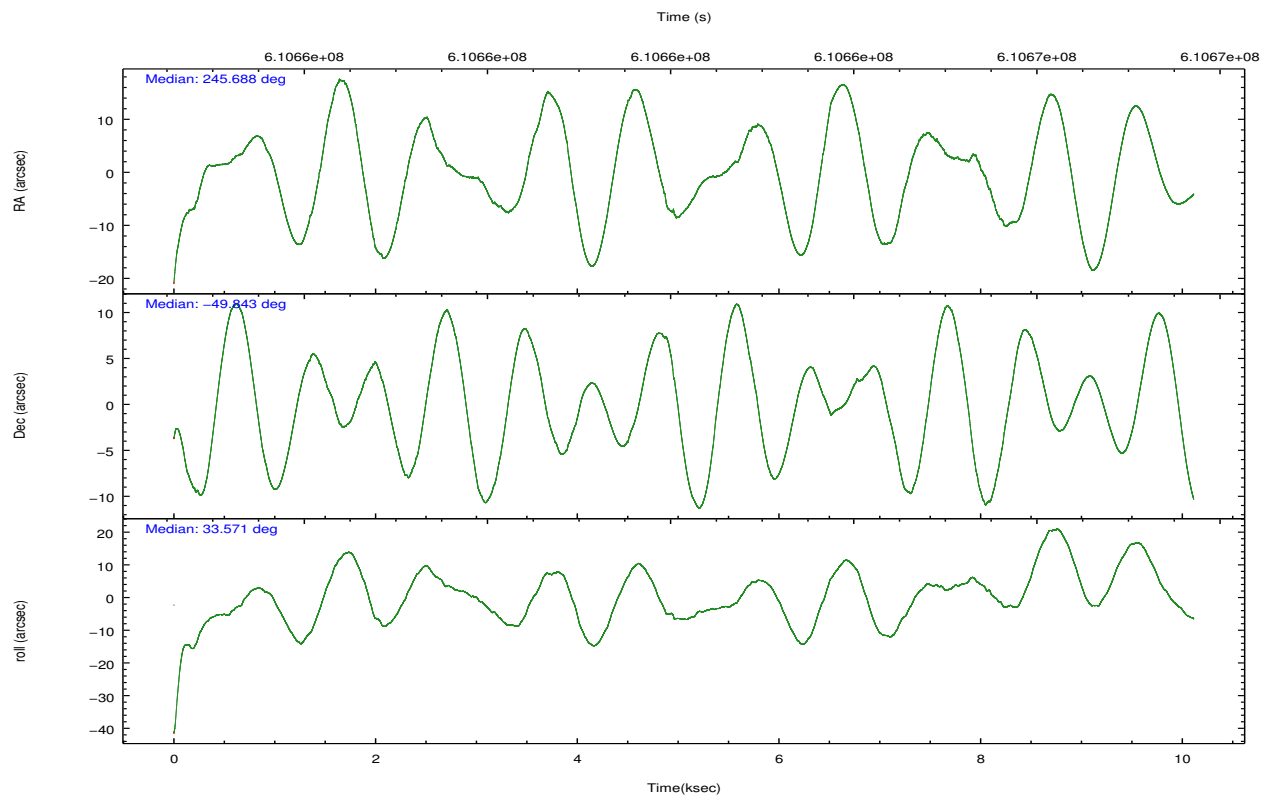


## 2.2 Compared Parameters

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	CC33_FAINT	CC33_FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	245.669442	245.6878098513484	CCD I2 on	O2	N
[deg] Pointing Dec	-49.867519	-49.8427679374966	CCD I3 on	O3	Y
[deg] Pointing Roll	33.404579	33.57525590658192	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	N
[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)	610657203.184000	610655635.84111	CCD S5 on	N	N
Observation start date	2017-05-08T18:58:54	2017-05-08T18:33:55	Number of optional ACIS chips dropped	2	2
[s] Observation end time (MET)	610667203.184000	610667848.20432	On-chip summing requested	N	N
Observation end date	2017-05-08T21:45:34	2017-05-08T21:57:28	Subarray requested	NONE	NONE
Read mode	CONTINUOUS	CONTINUOUS	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	0

## 2.3 Aspect



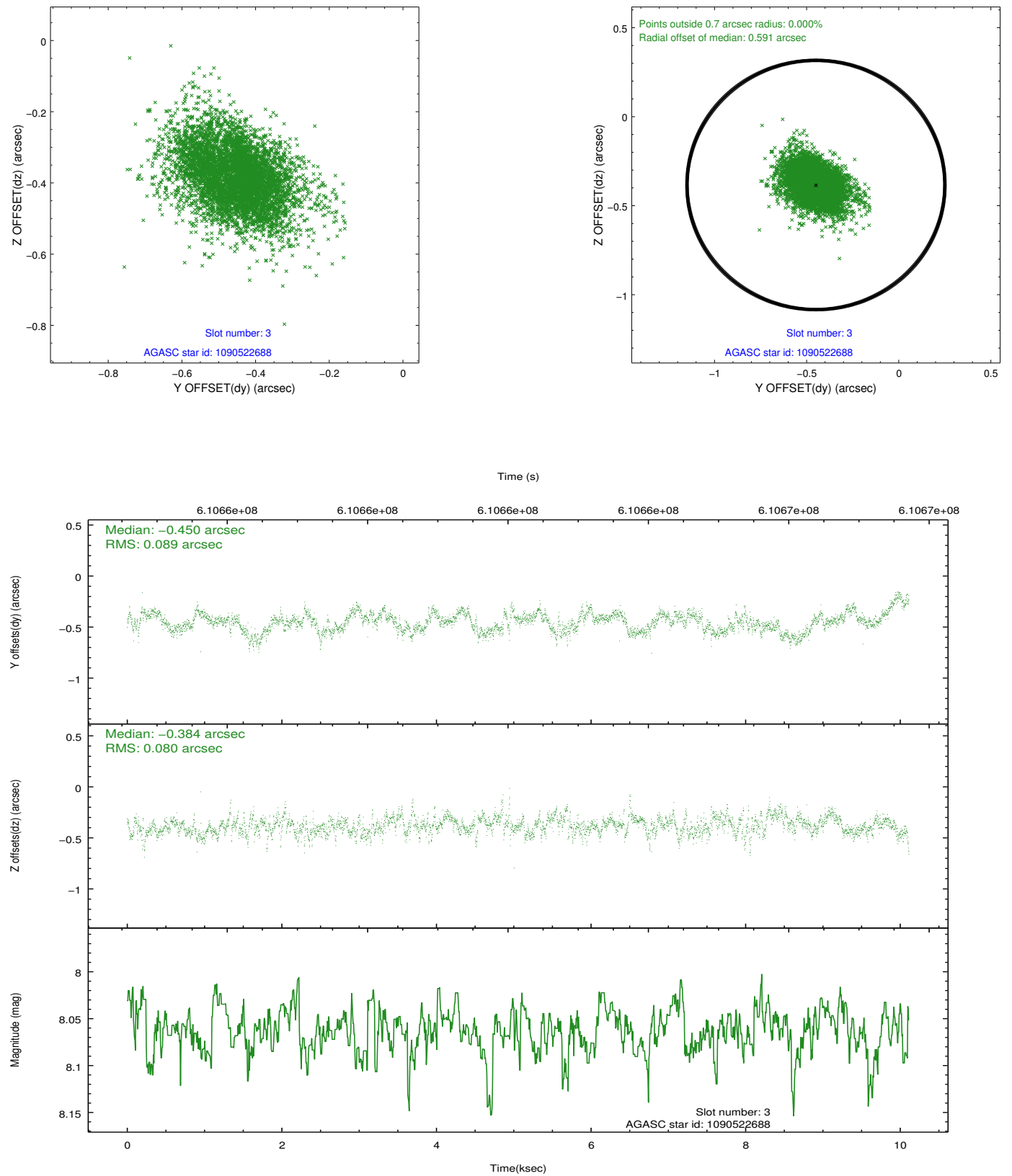


Slot Statistics

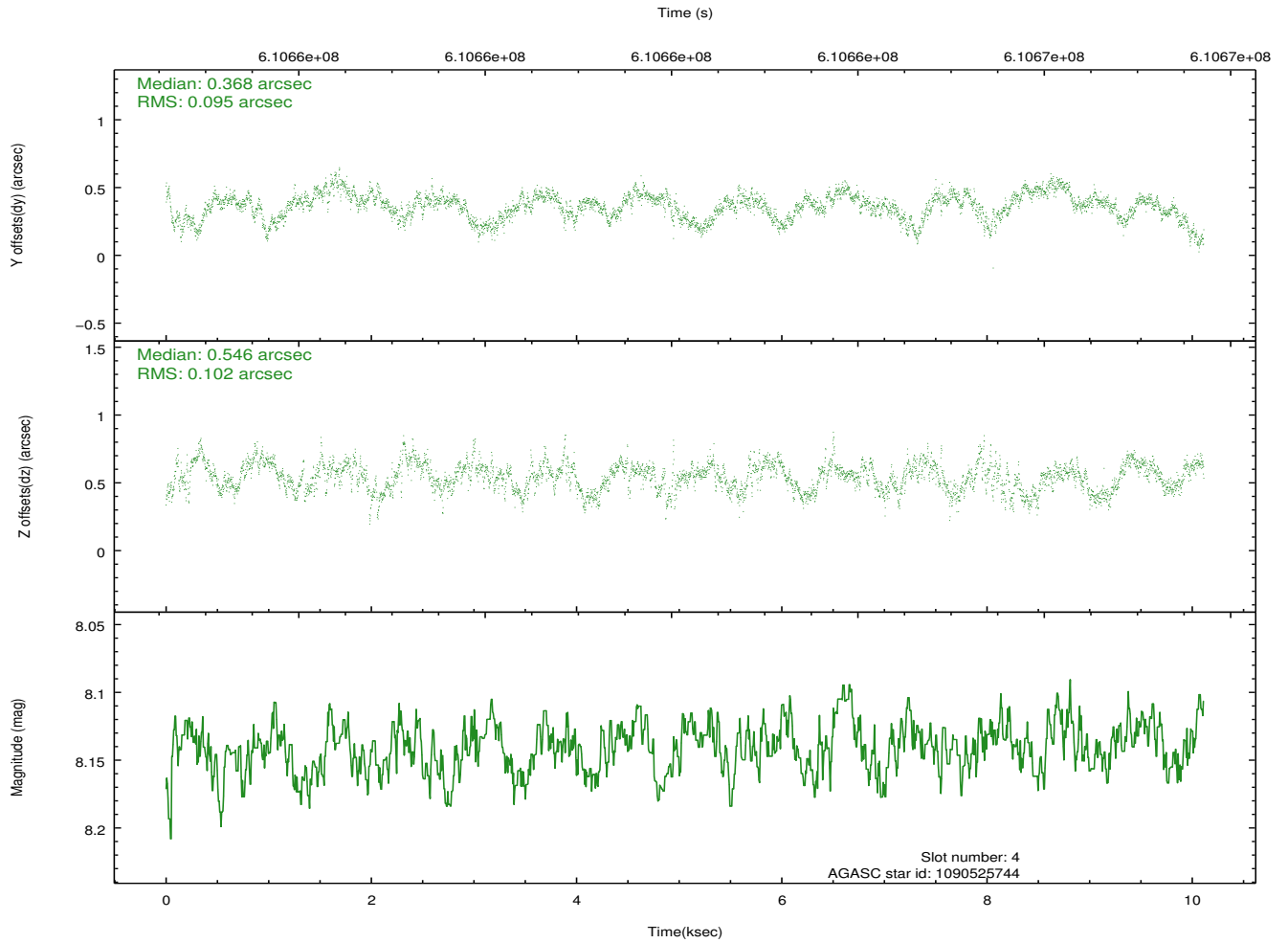
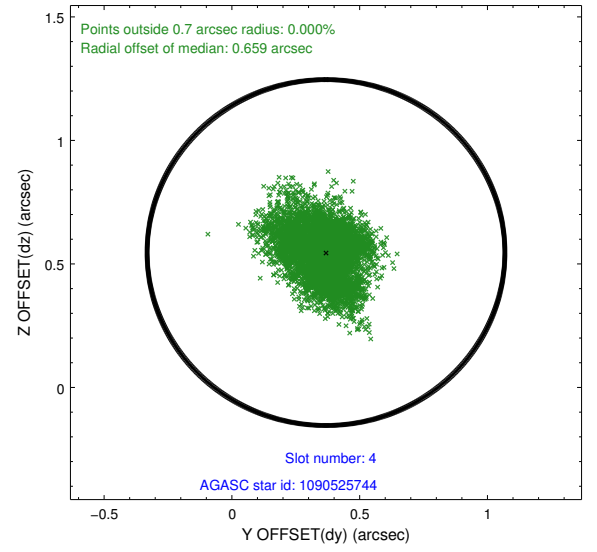
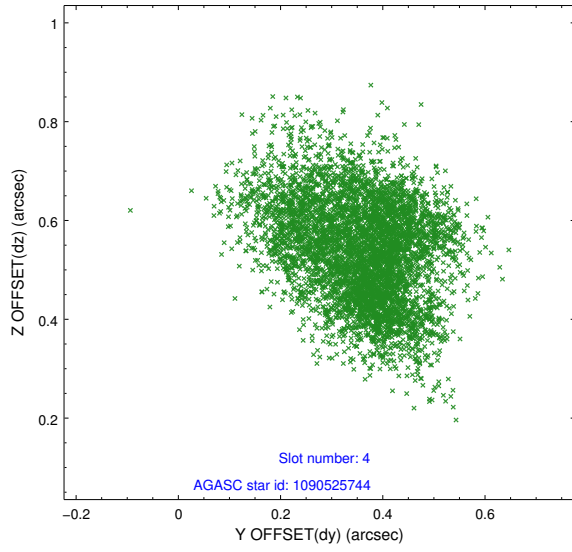
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.25	2467	0.201	0.061	0.007	0.012	0.000000	0.000000	928.36	-1735.49
1	FID		ACIS-S-2	7.16	2467	-0.288	-0.135	0.007	0.012	0.000000	0.000000	-767.74	-1740.74
2	FID		ACIS-S-6	7.41	2465	0.066	0.079	0.007	0.013	0.000000	0.000000	393.71	805.33
3	GUIDE	used	1090522688	8.06	4931	-0.450	-0.384	0.125	0.212	245.358664	-49.397960	321.89	1810.26
4	GUIDE	used	1090525744	8.14	4932	0.368	0.546	0.149	0.238	245.649389	-50.543894	-1378.30	-2007.06
5	GUIDE	used	1090531048	8.36	4932	0.163	0.135	0.118	0.198	246.008201	-50.442227	-491.18	-2156.70
6	GUIDE	used	1090525496	8.57	4932	0.185	0.078	0.167	0.258	244.777039	-50.152945	-2290.30	264.56
7	GUIDE	used	1090527696	7.22	4932	-0.256	-0.371	0.132	0.233	246.414931	-49.424565	2329.56	362.52

## 2.4 Star Slots

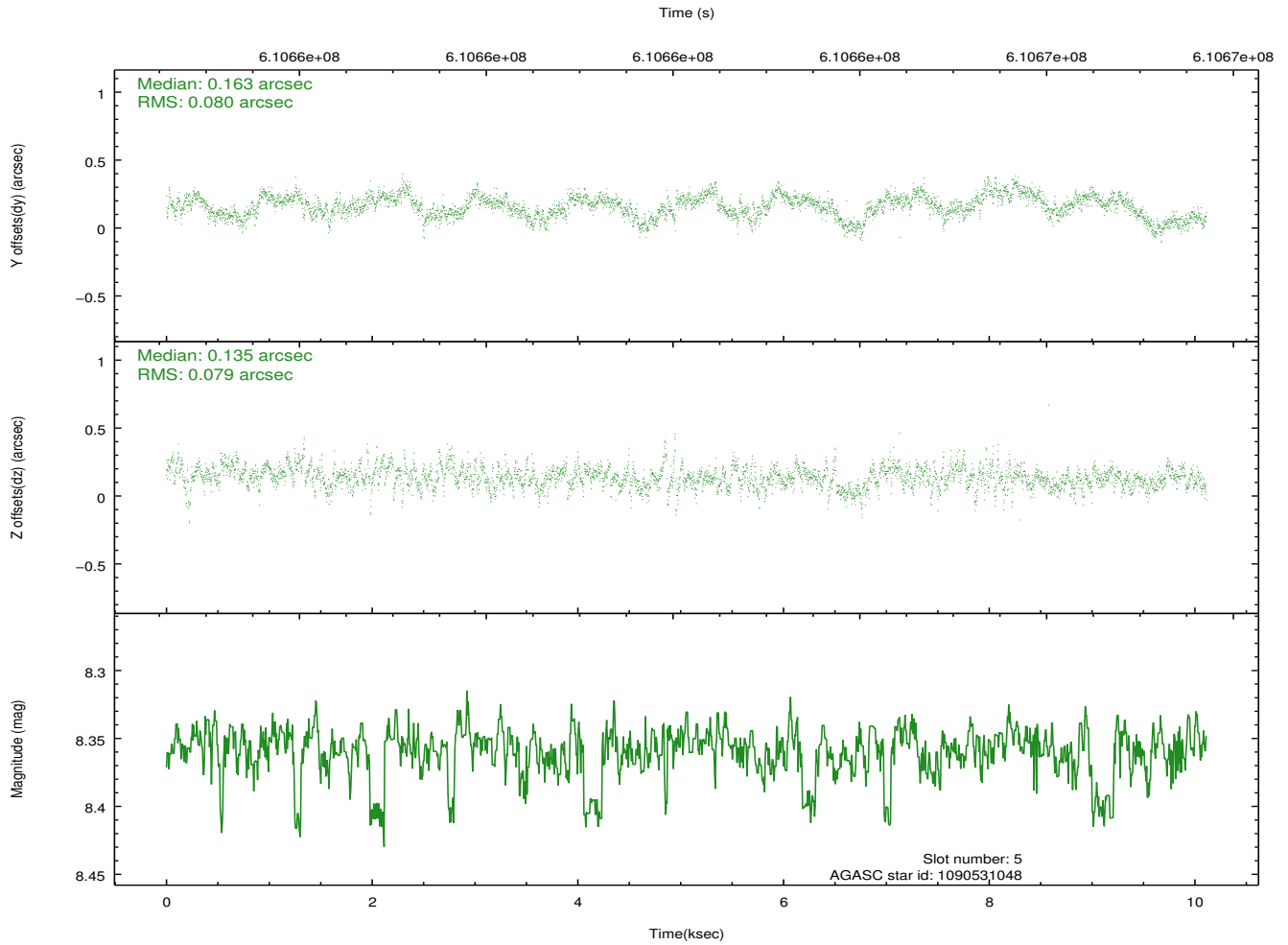
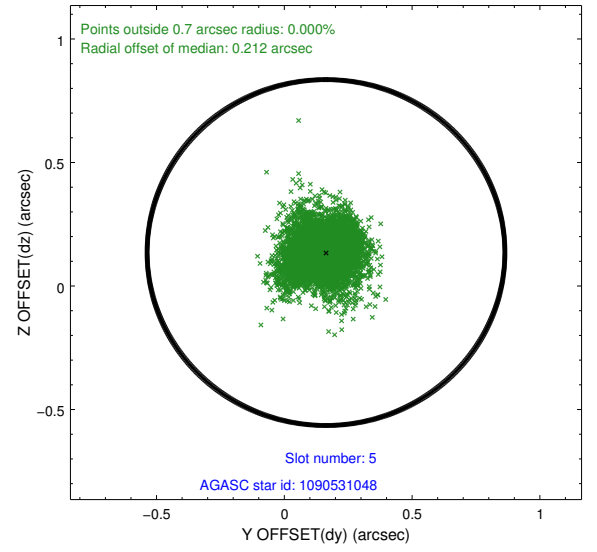
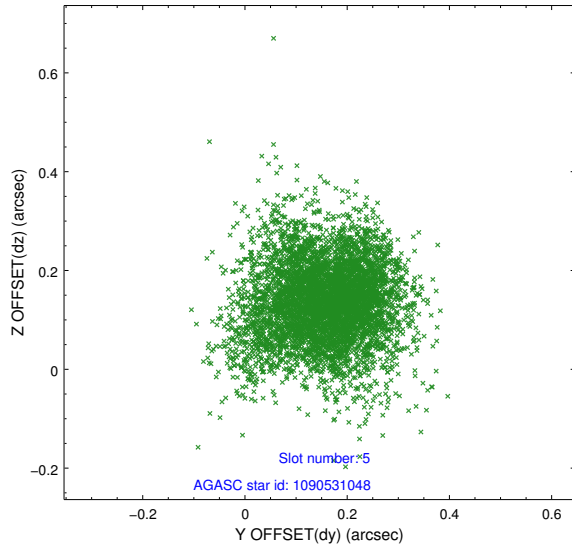
### 2.4.1 Slot 3



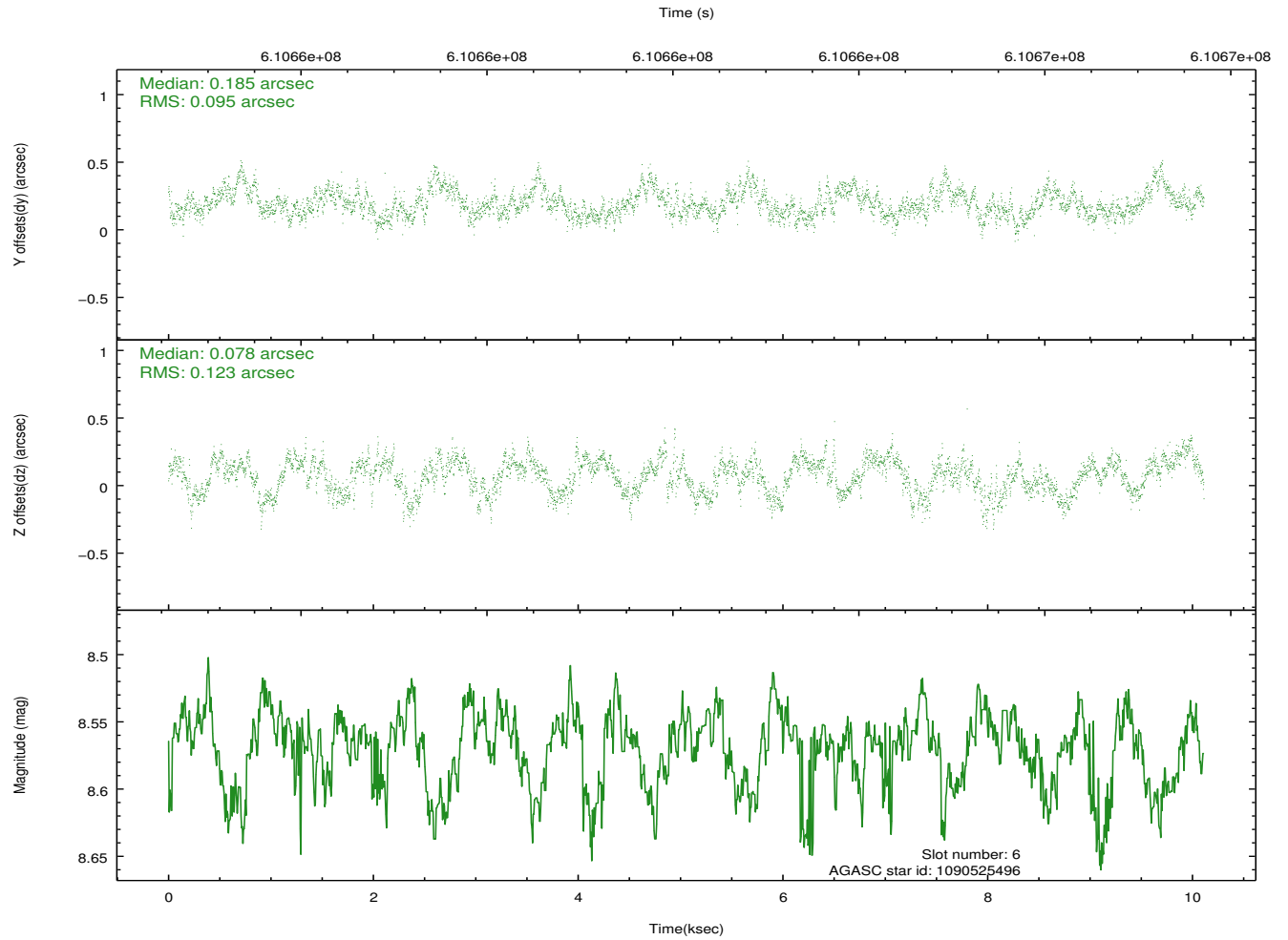
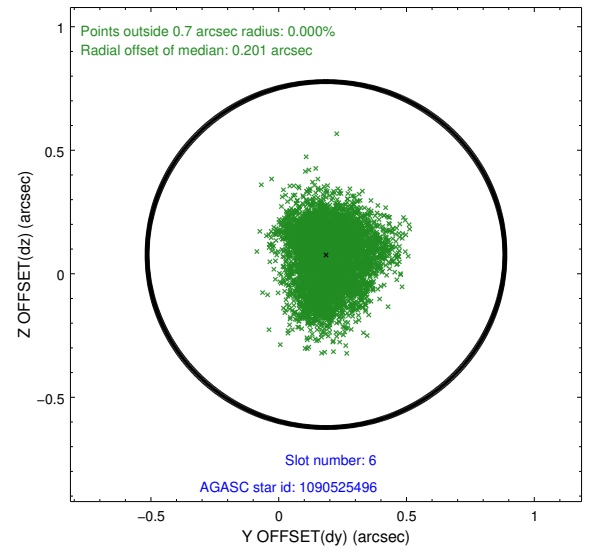
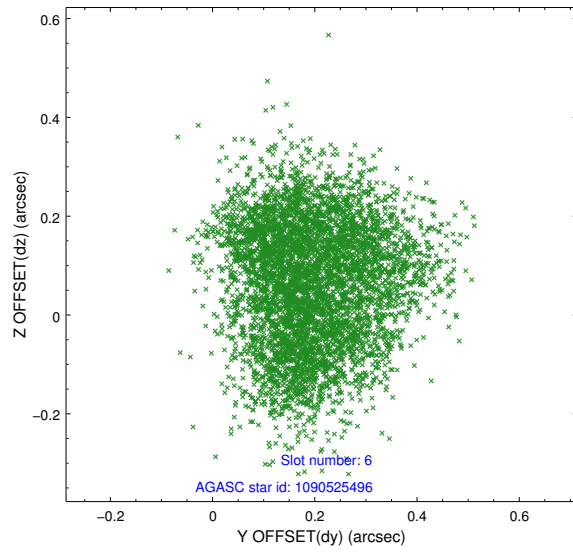
## 2.4.2 Slot 4



### 2.4.3 Slot 5

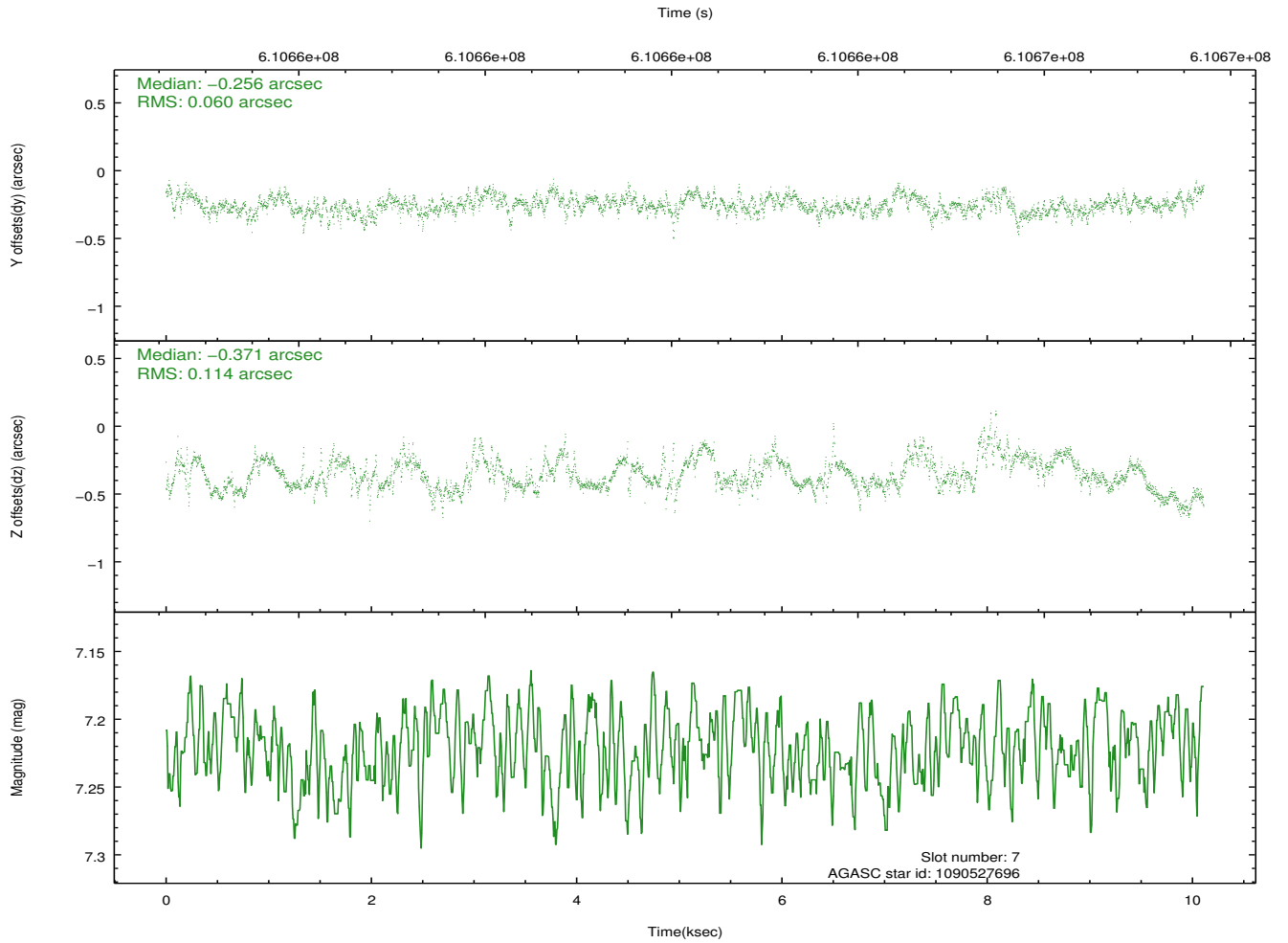
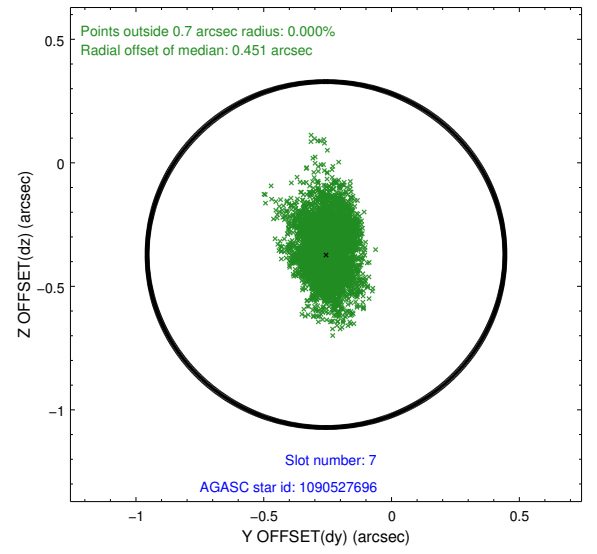
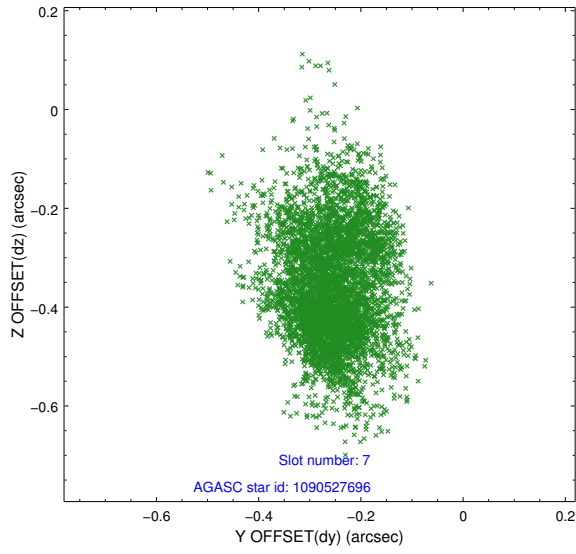


## 2.4.4 Slot 6



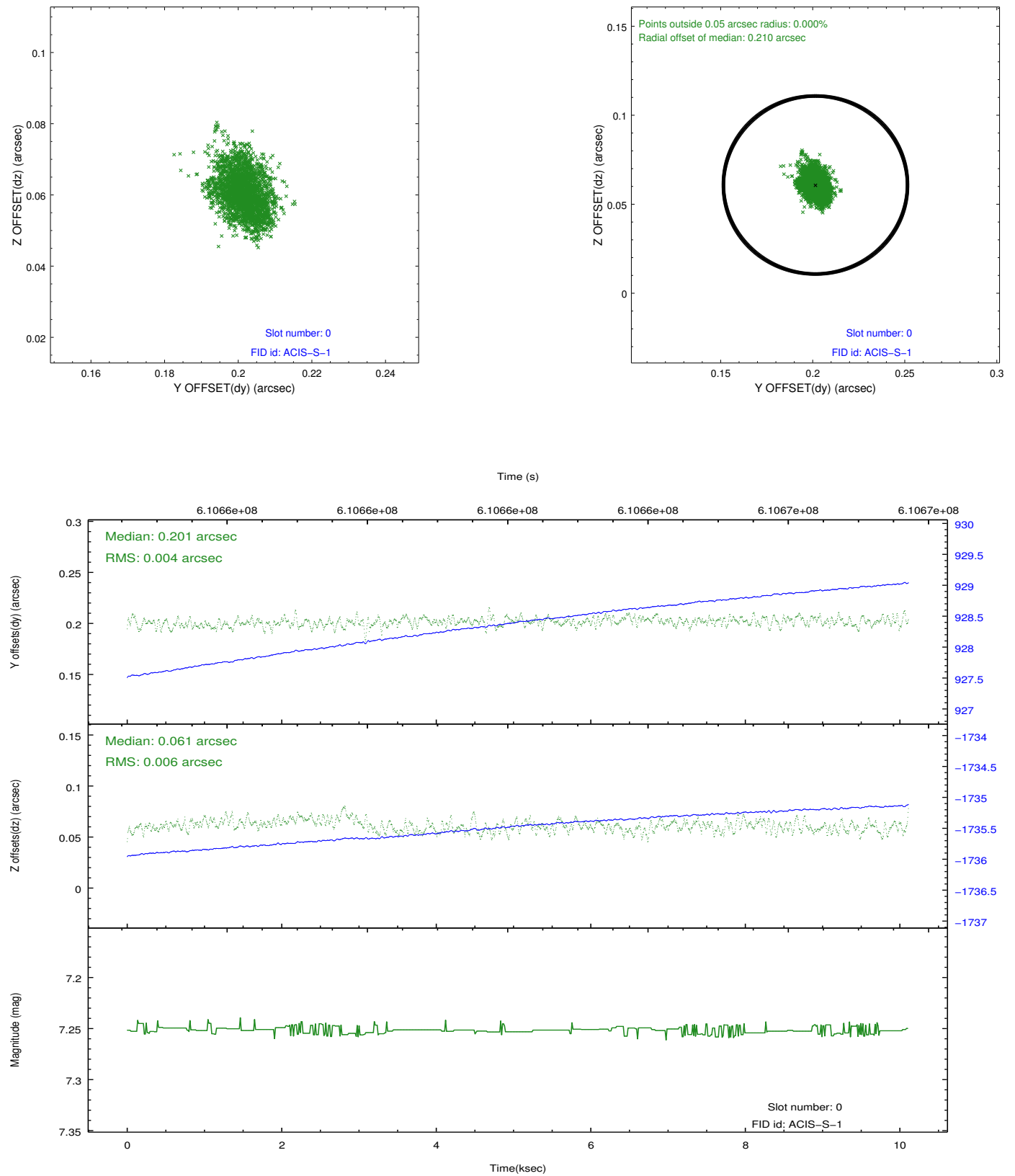


## 2.4.5 Slot 7

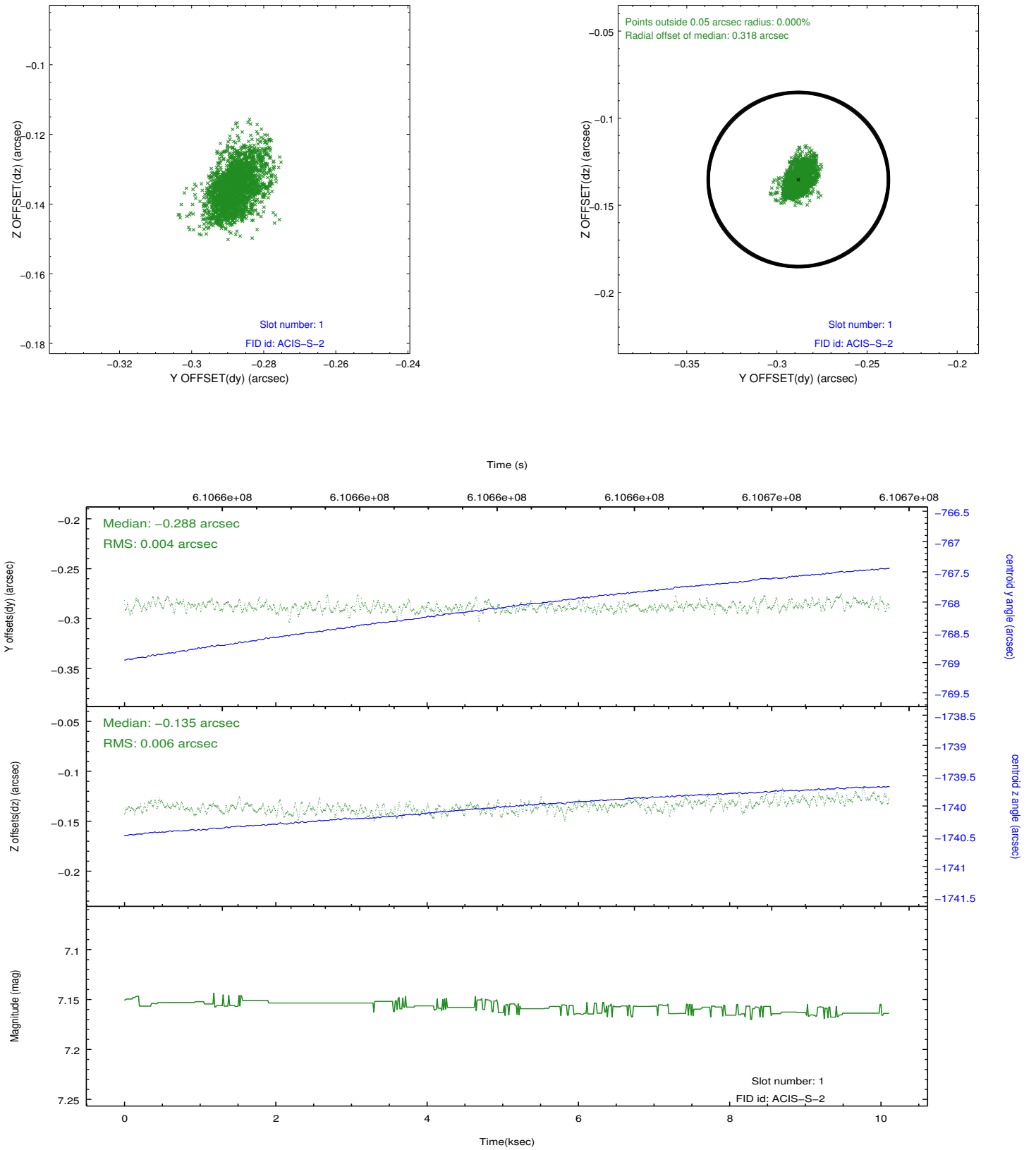


## 2.5 FID Slots

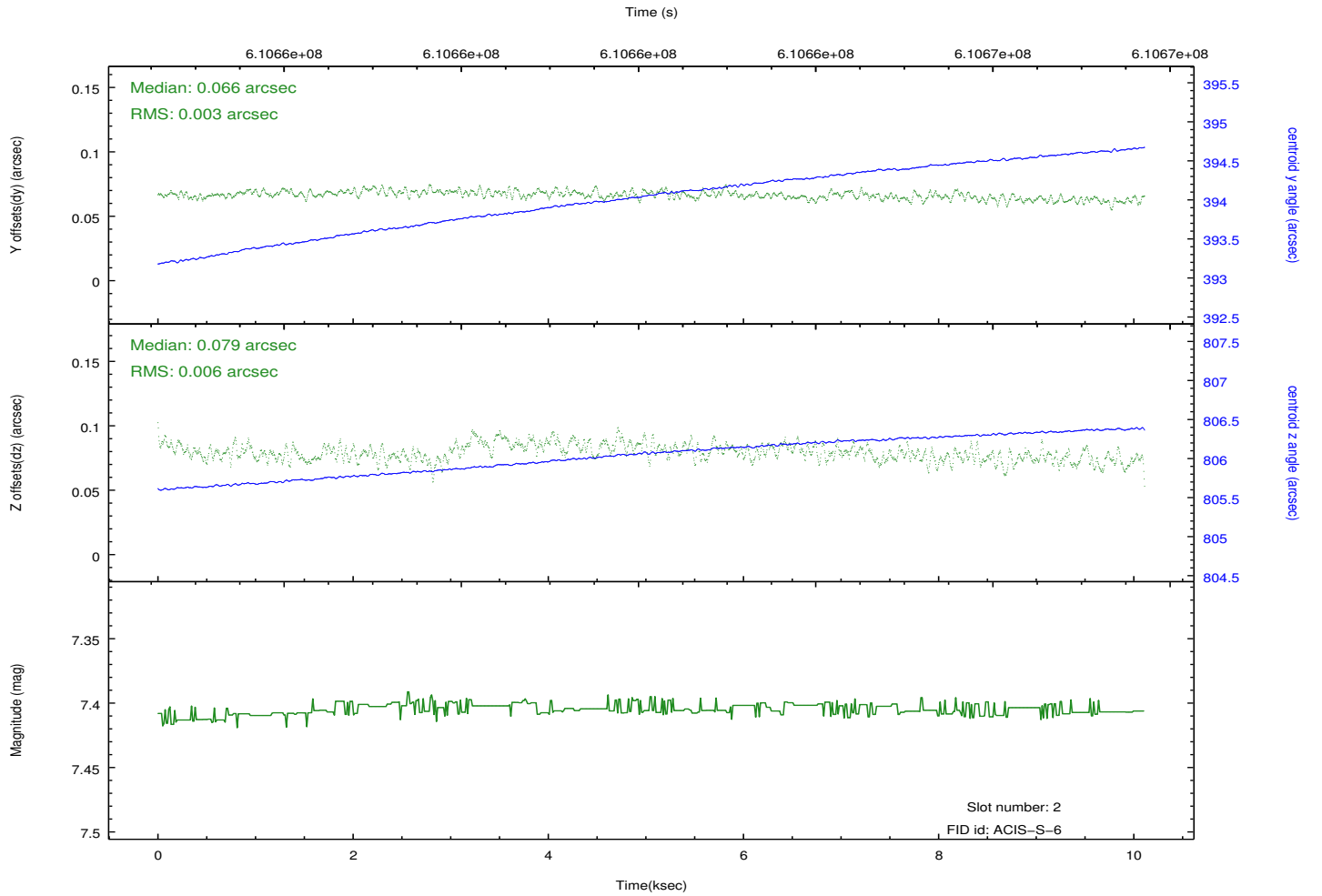
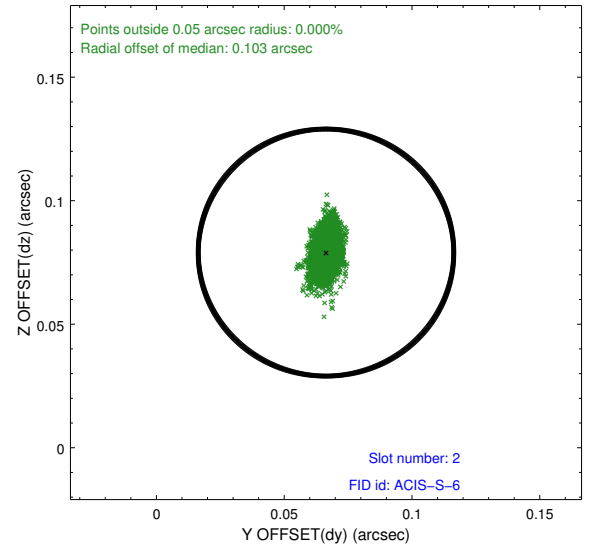
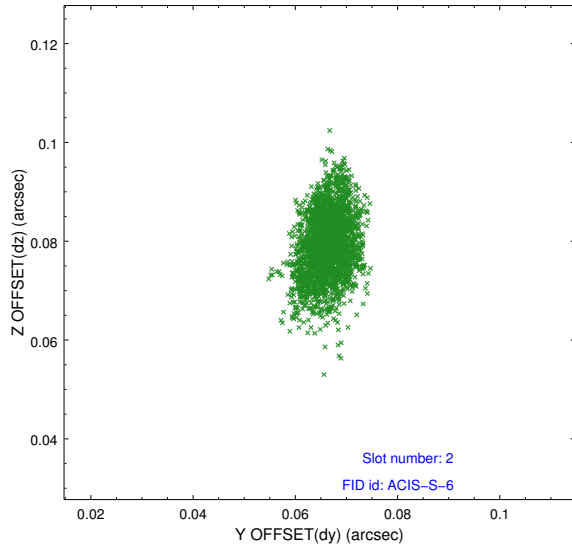
### 2.5.1 Slot 0



## 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)	2017.05.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.10675

### A.2 Comments