

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 10143 - L2 Version 2  
Chandra X-Ray Center

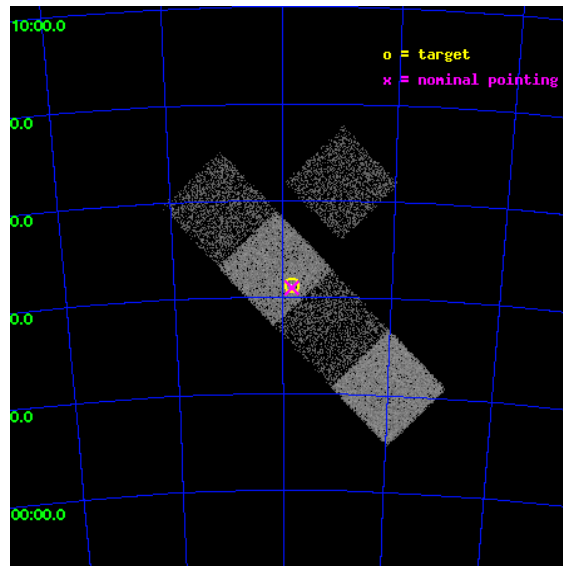
L2 Processing Date : May 25 2012

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# 1 Front

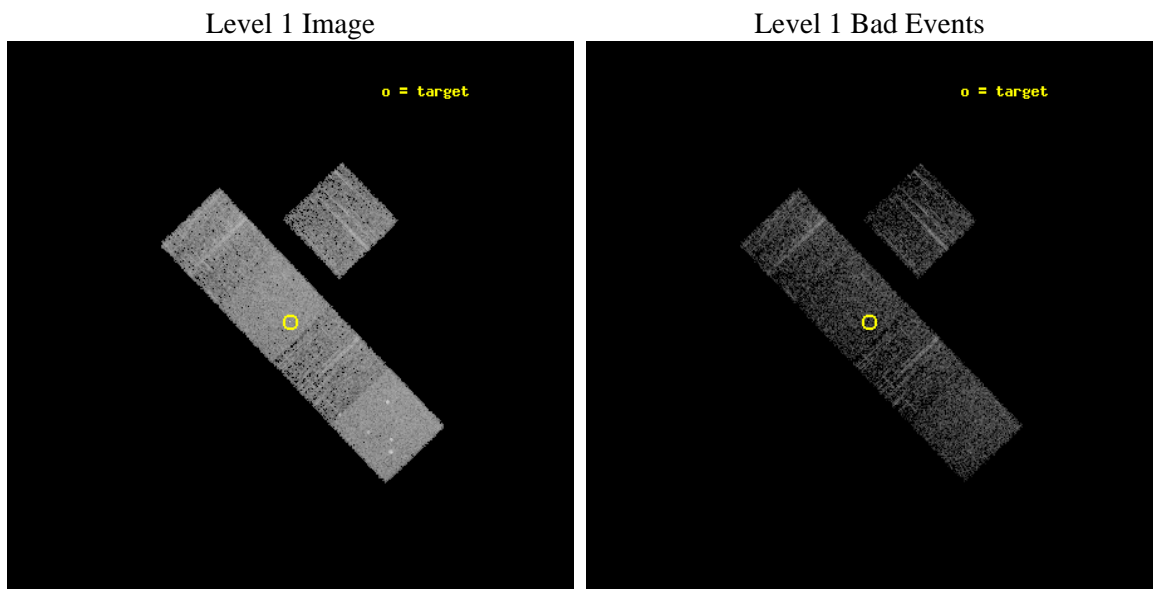
seq_num	501070	Sequence number
obs_id	10143	Observation id
title	Identifying the Nearest and Brightest Neutron Stars	Proposal title
observer	Prof. Derek Fox	Principal investigator
object	1RXSJ200924.1-853911	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	302.304167	Observer's specified target RA [deg]
dec_targ	-85.646333	Observer's specified target Dec [deg]
ra_nom	302.29347998764	Nominal RA [deg]
dec_nom	-85.651010023322	Nominal Dec [deg]
roll_nom	226.22417673432	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2033.6000156403	Sum of GTIs [s]
livetime	2007.0295343214	Livetime [s]
ontime3	2033.6000156403	Sum of GTIs [s]
ontime5	2033.6000156403	Sum of GTIs [s]
ontime6	2033.6000156403	Sum of GTIs [s]
ontime7	2033.6000156403	Sum of GTIs [s]
ontime8	2033.6000156403	Sum of GTIs [s]
l2events	32459	Number of level 2 events



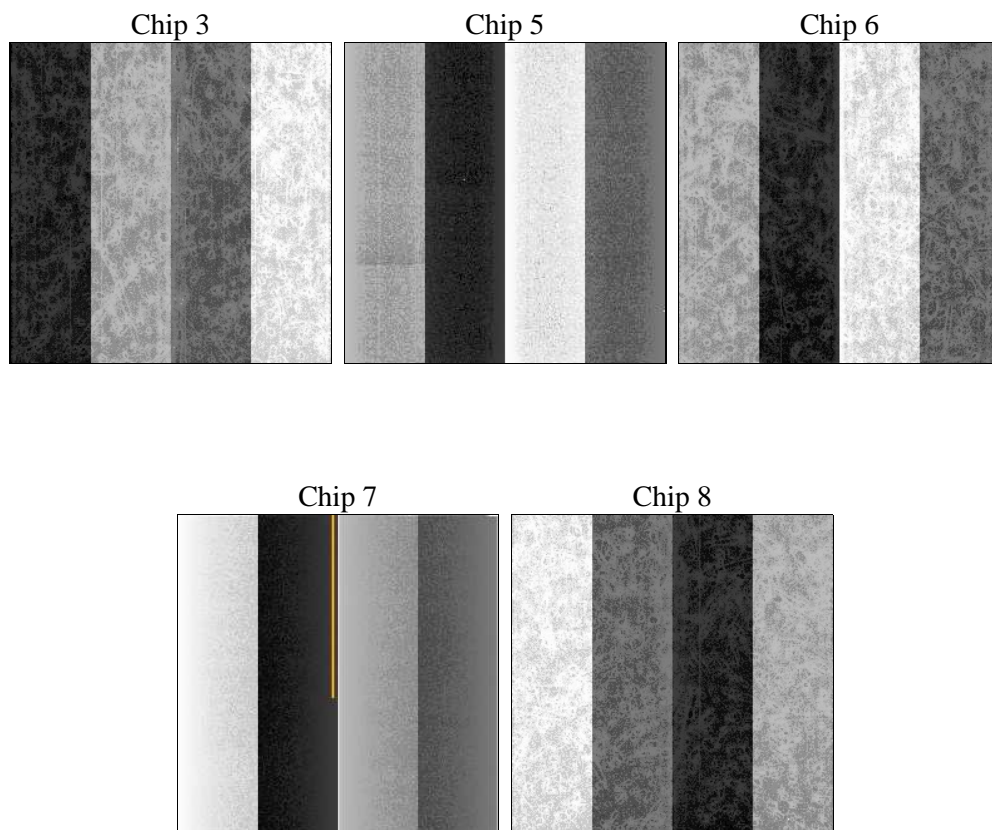
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	2033.6000156403	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime3	2033.6000156403	Sum of GTIs [s]
date	2012-05-25T20:15:20	Date and time of file creation	ontime5	2033.6000156403	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	2033.6000156403	Sum of GTIs [s]
			ontime7	2033.6000156403	Sum of GTIs [s]
			ontime8	2033.6000156403	Sum of GTIs [s]
			l1events	125806	Number of level 1 events

### 2.1.4 Events

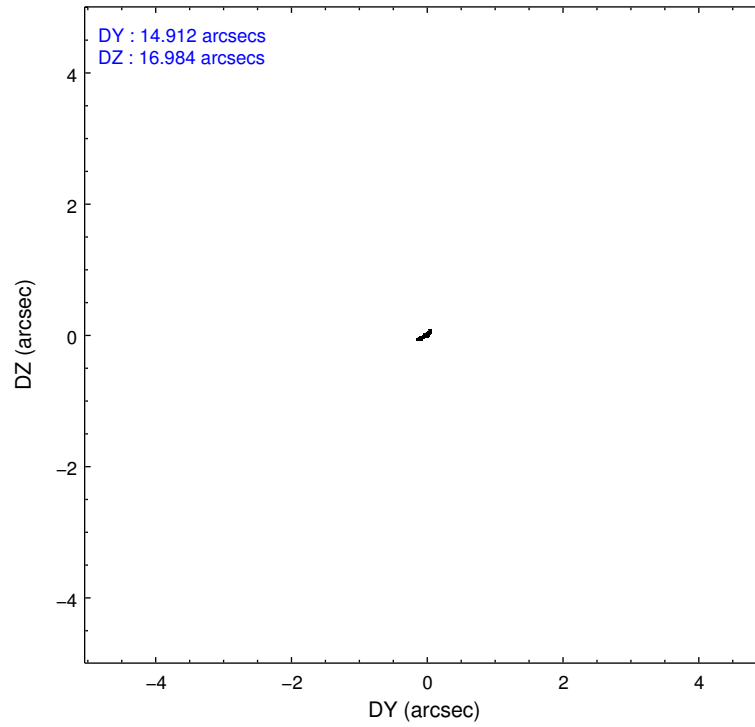
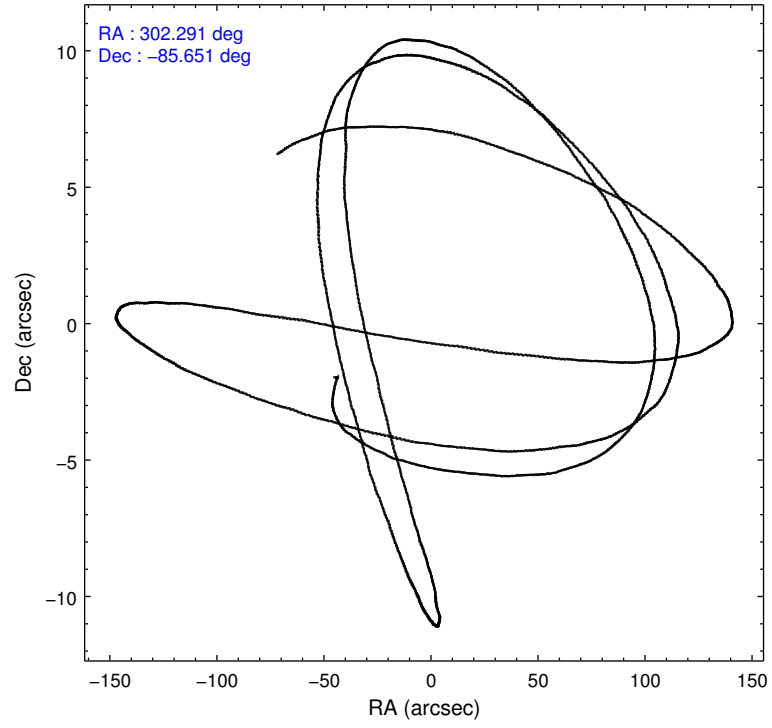
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	18768	32493	19663	28962	25920
rejected events	16444	17278	17257	16744	20295
rejected %	87%	53%	87%	57%	78%

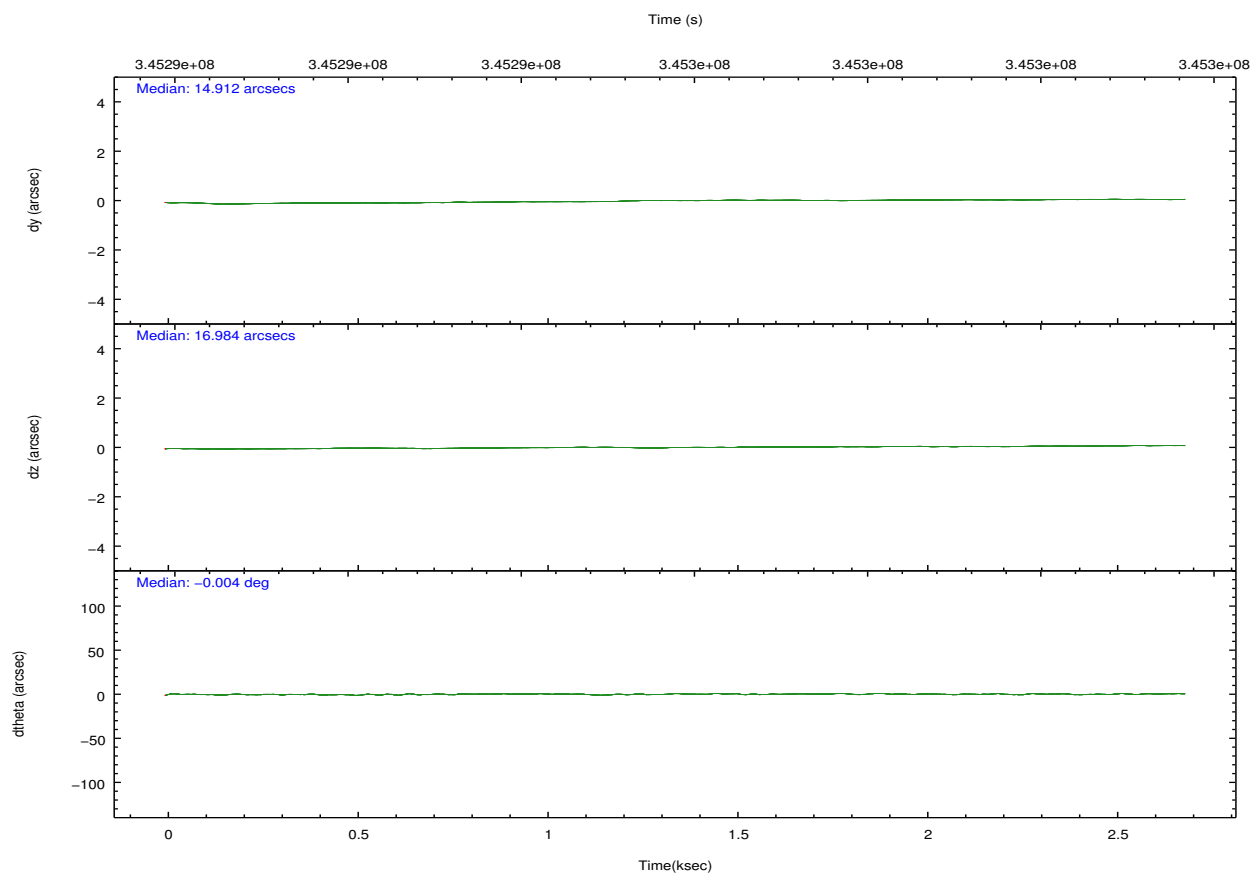
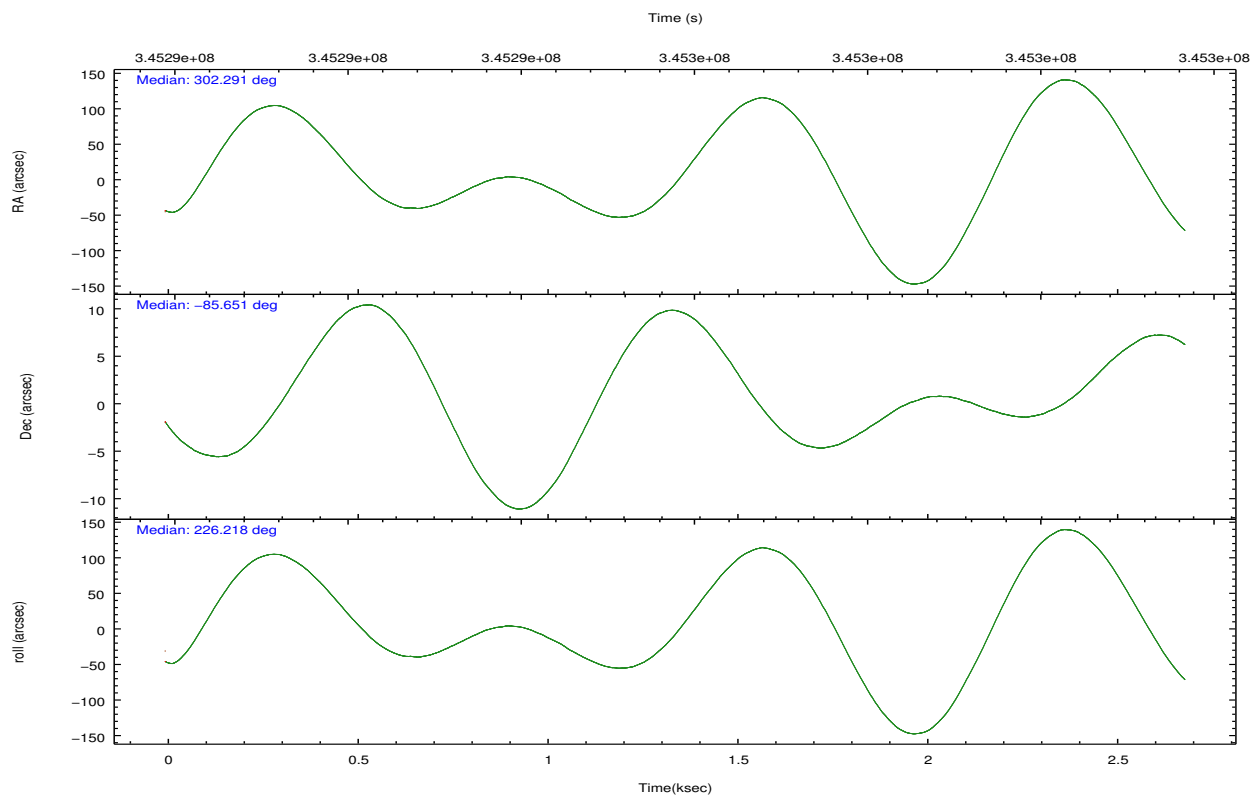
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	995	1798	965	1076	1740
	5%	5%	4%	3%	6%
grade 1 events	12	82	13	41	22
	0%	0%	0%	0%	0%
grade 2 events	441	4618	505	2543	1366
	2%	14%	2%	8%	5%
grade 3 events	201	497	232	1045	544
	1%	1%	1%	3%	2%
grade 4 events	224	486	222	953	516
	1%	1%	1%	3%	1%
grade 5 events	973	2236	958	2724	1331
	5%	6%	4%	9%	5%
grade 6 events	467	7840	486	6614	1471
	2%	24%	2%	22%	5%
grade 7 events	15455	14936	16282	13966	18930
	82%	45%	82%	48%	73%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-35678	ACIS-35678	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	302.371364	302.2934799876395	CCD I2 on	N	N
[deg] Pointing Dec	-85.624531	-85.65101002332246	CCD I3 on	Y	Y
[deg] Pointing Roll	226.145250	226.2241767343208	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[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	Y	Y
[s] Observation start time (MET)	345294277.184000	345292954.23059	CCD S5 on	N	N
Observation start date	2008-12-10T11:03:32	2008-12-10T10:42:34	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	345296277.184000	345297728.16833	On-chip summing requested	N	N
Observation end date	2008-12-10T11:36:52	2008-12-10T12:02:08	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect





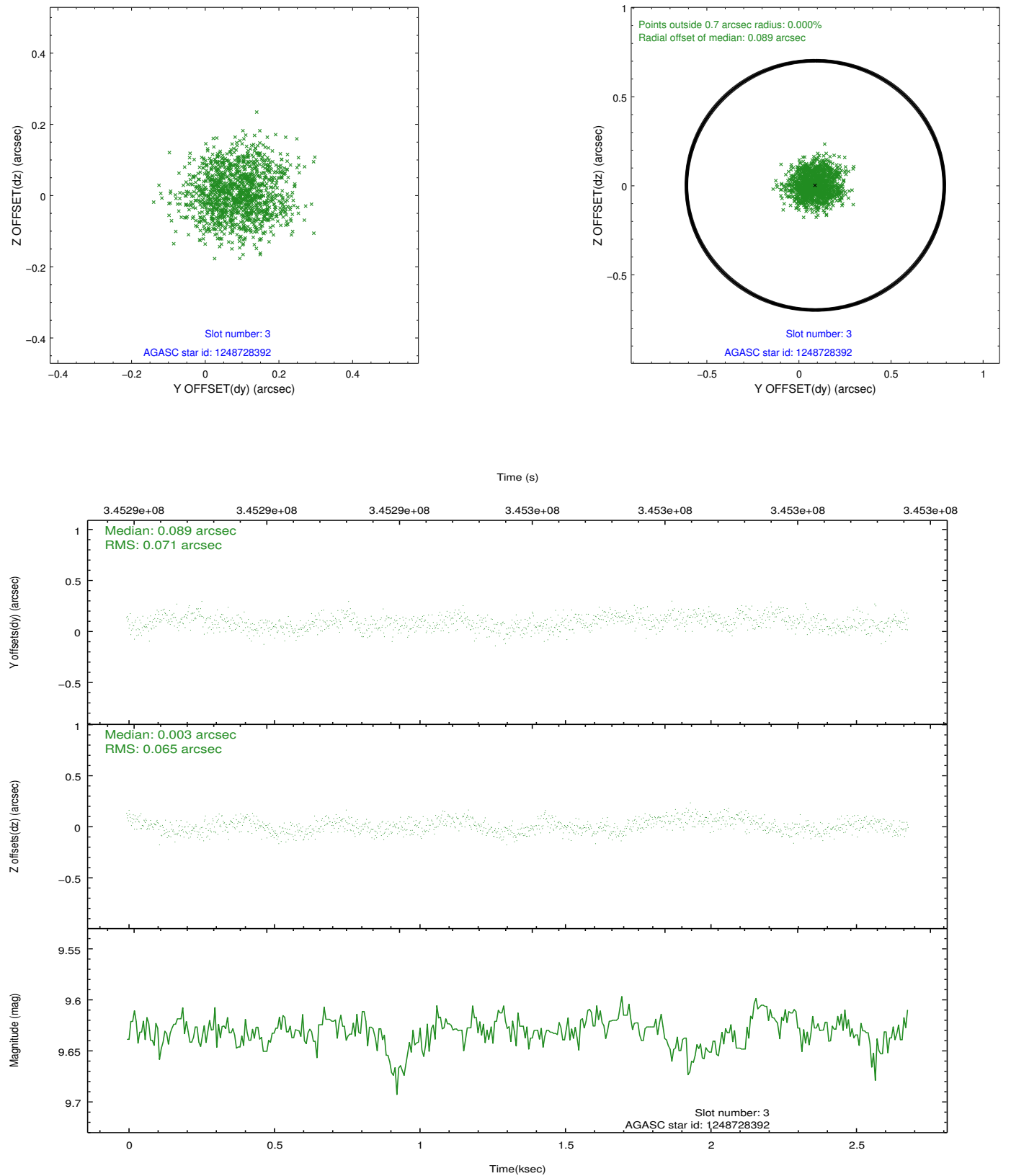
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	6.96	656	0.095	-0.082	0.006	0.012	0.000000	0.000000	928.24	-1734.15
1	FID	ACIS-S-5	7.00	656	-0.149	0.059	0.007	0.011	0.000000	0.000000	-1819.63	161.12
2	FID	ACIS-S-6	7.10	656	0.033	0.035	0.007	0.013	0.000000	0.000000	391.19	807.72
3	GUIDE	1248728392	9.63	1305	0.089	0.003	0.104	0.159	297.634486	-86.113280	2104.59	419.71
4	GUIDE	1248736064	9.27	1310	0.034	0.079	0.120	0.186	294.128569	-85.816429	2107.82	-969.04
5	GUIDE	1248738792	9.04	1311	0.017	-0.104	0.087	0.140	299.846040	-85.101839	-803.77	-1851.86
6	GUIDE	1248861208	8.61	1311	-0.090	-0.135	0.064	0.103	306.053358	-85.813851	-155.44	1189.46
7	GUIDE	1248865112	9.06	1308	-0.046	0.158	0.091	0.146	301.147741	-84.772287	-1929.88	-2411.18

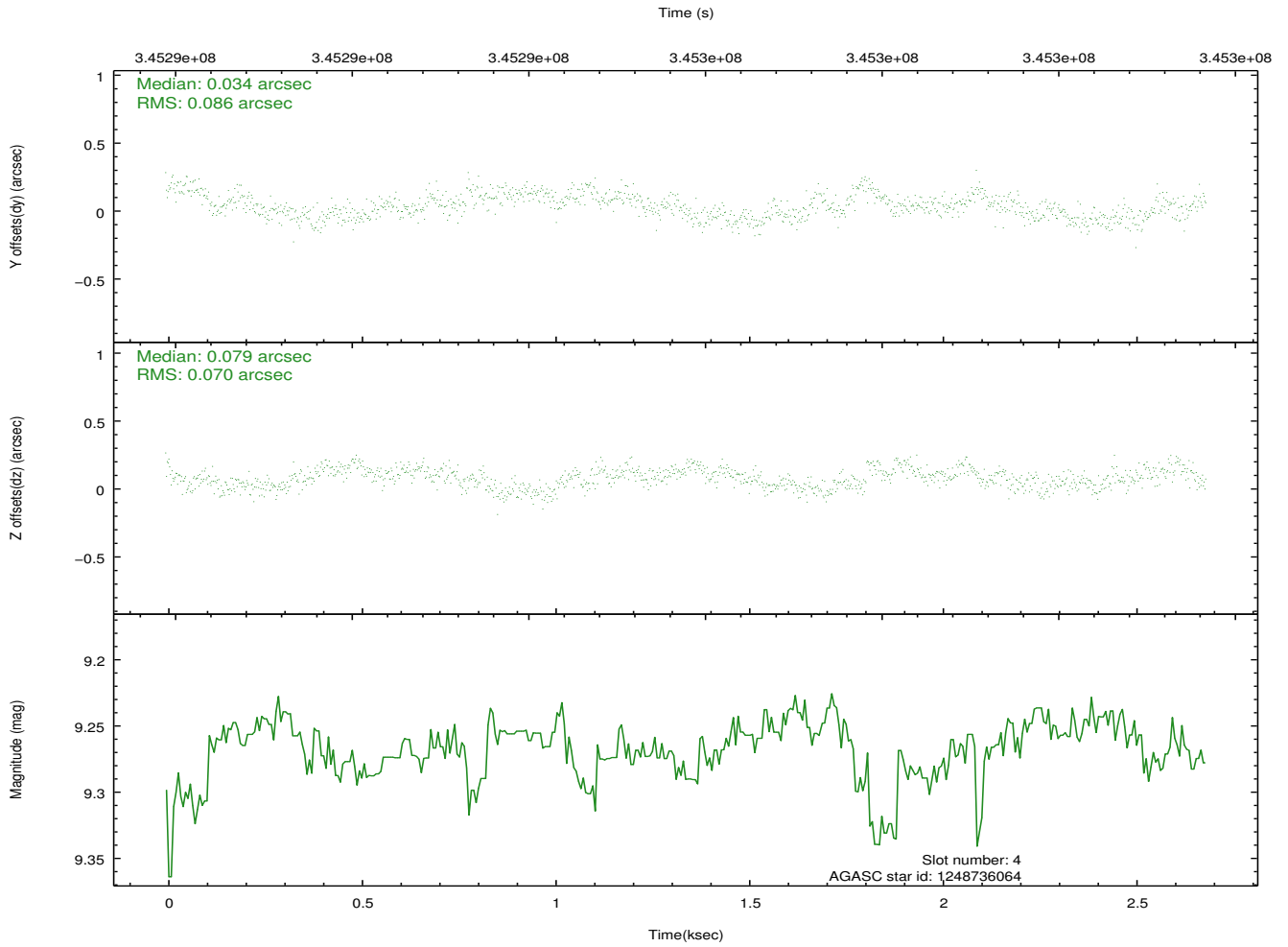
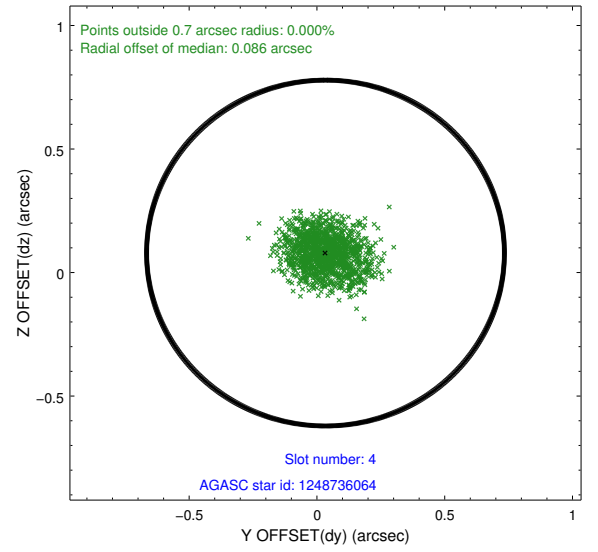
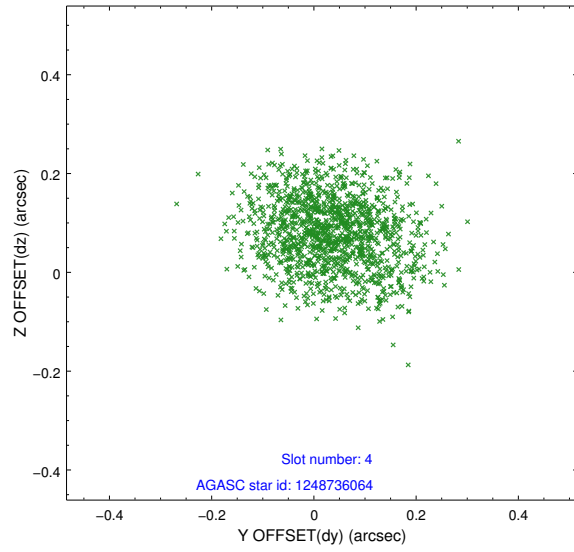


## 2.4 Star Slots

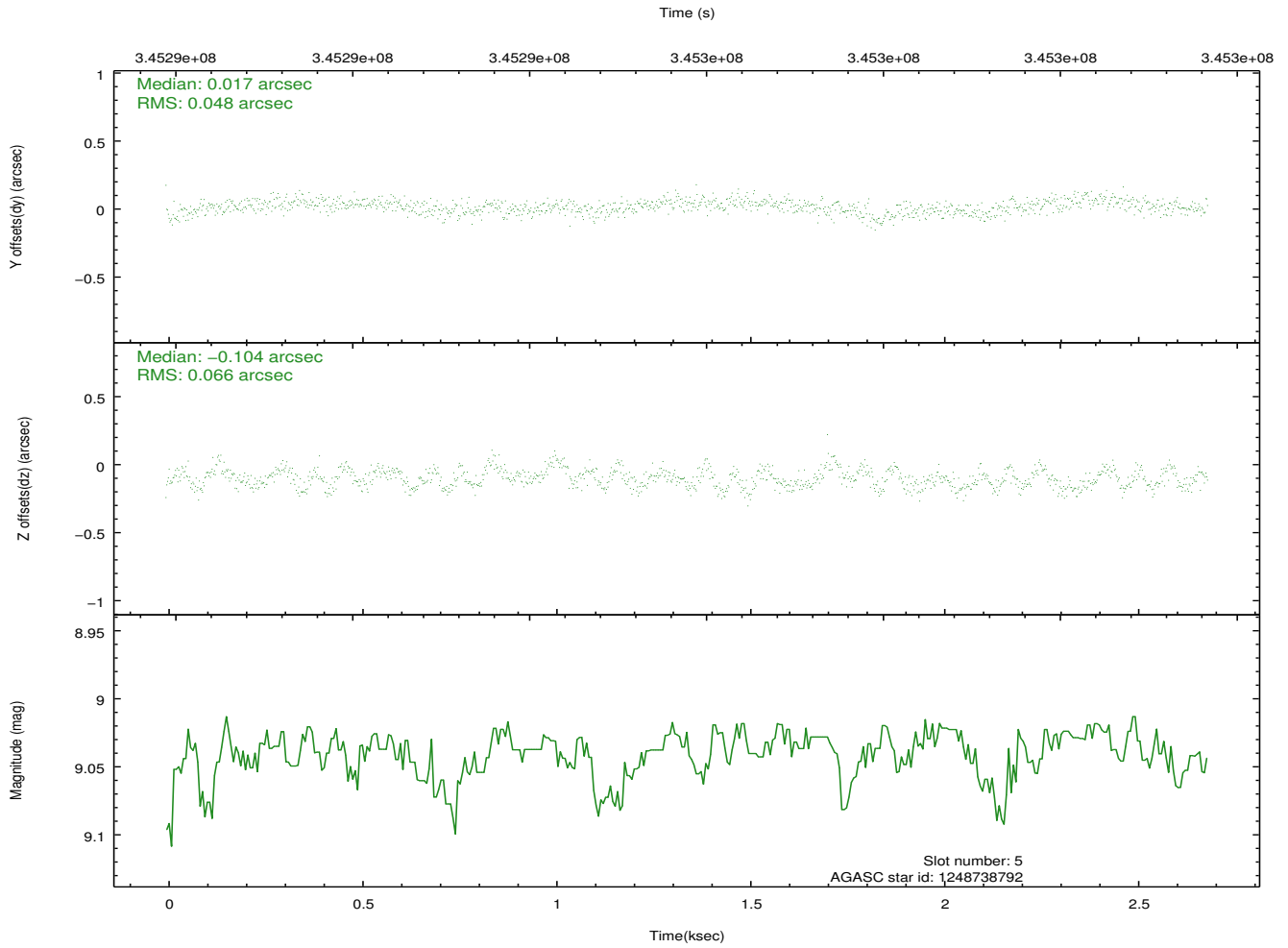
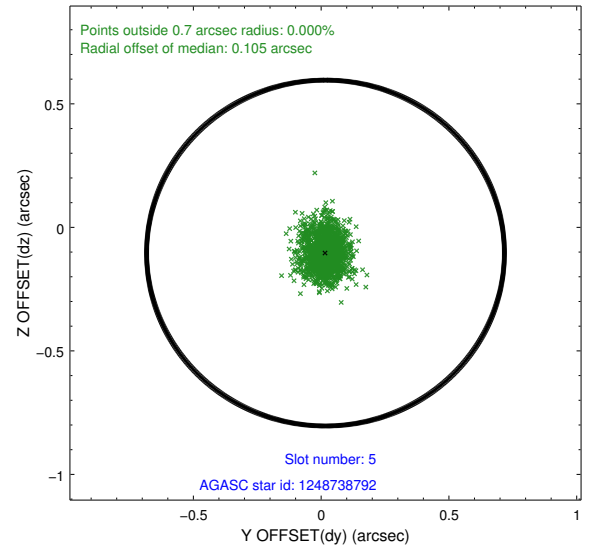
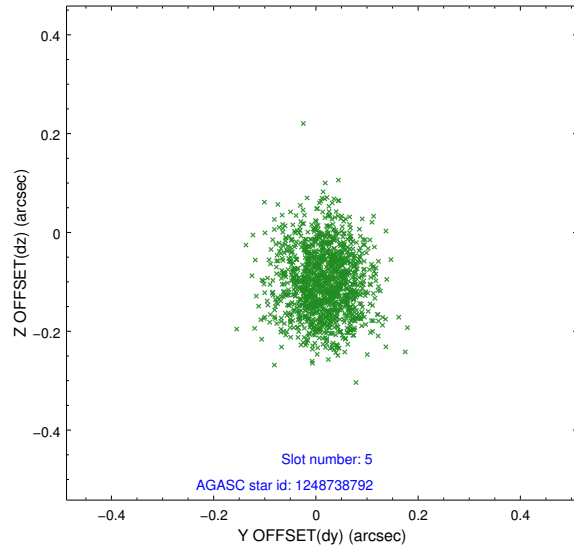
### 2.4.1 Slot 3



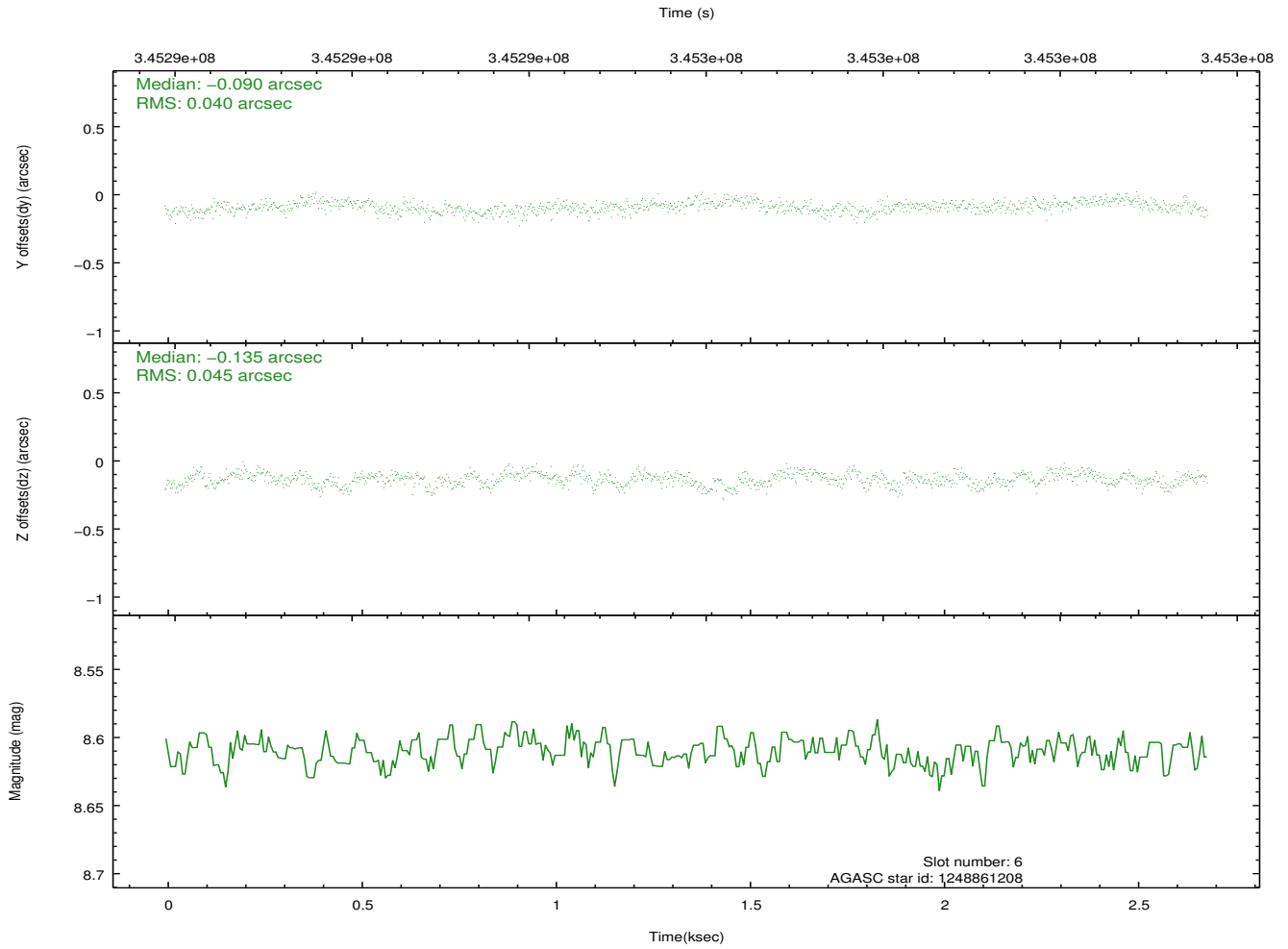
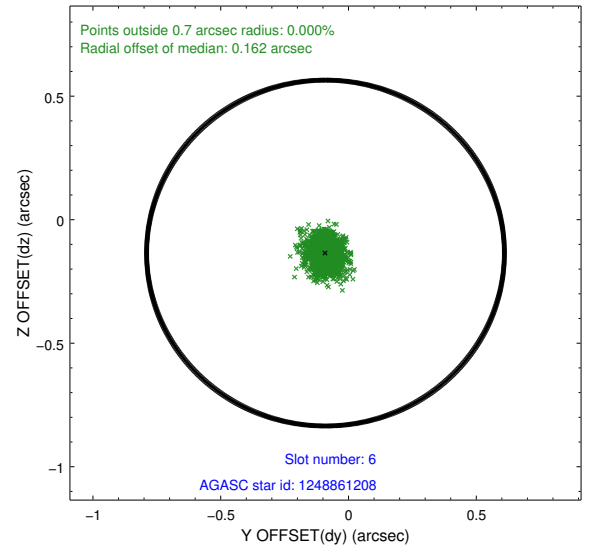
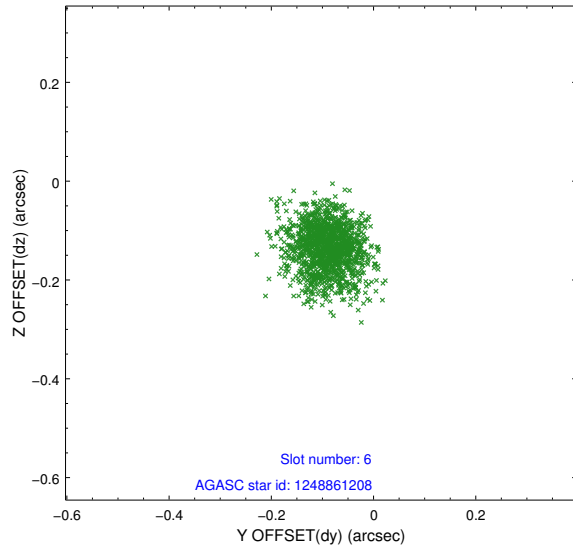
## 2.4.2 Slot 4



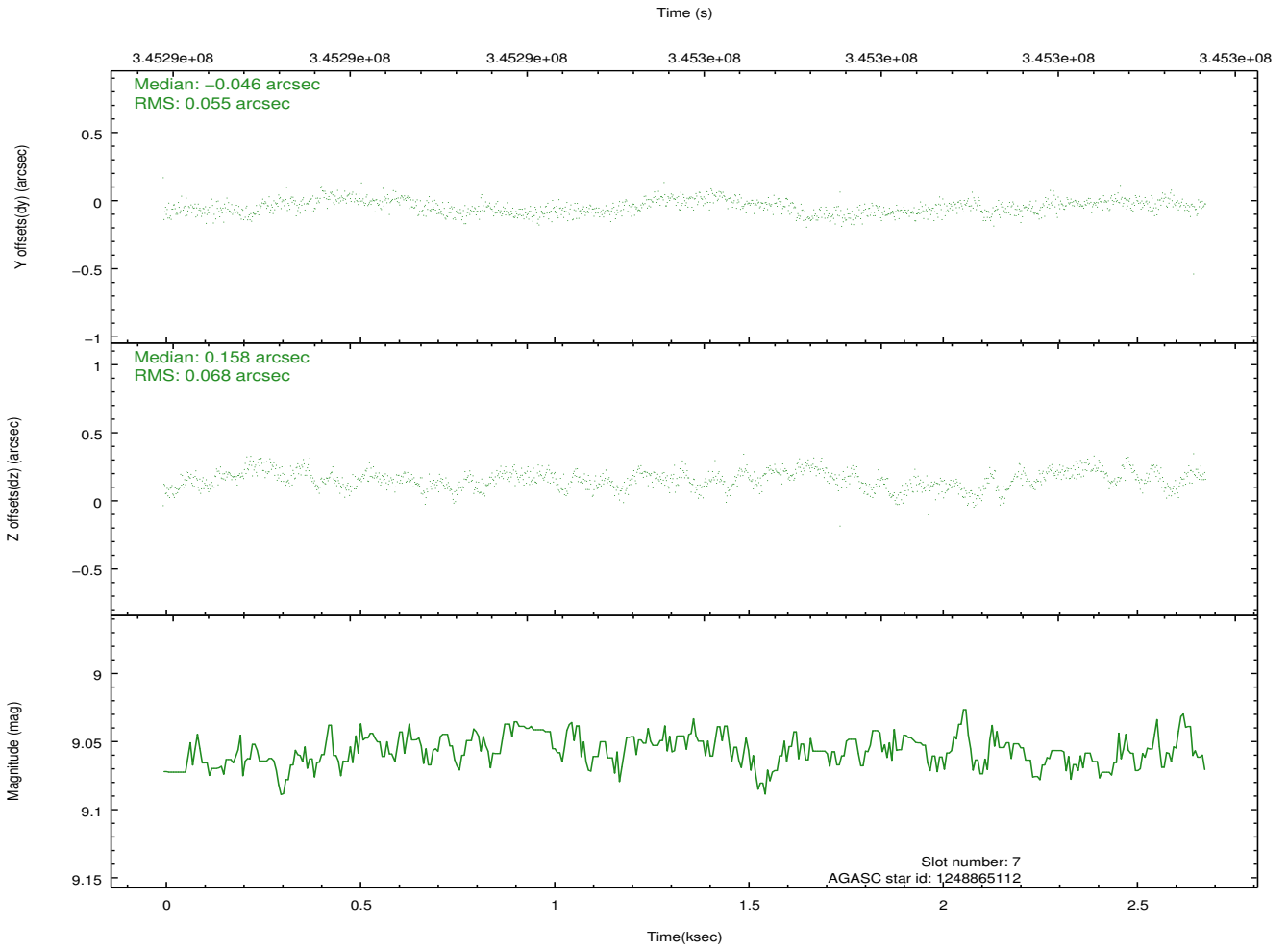
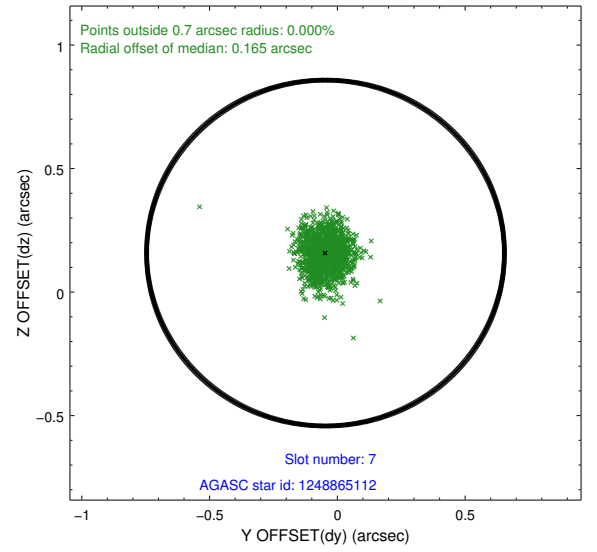
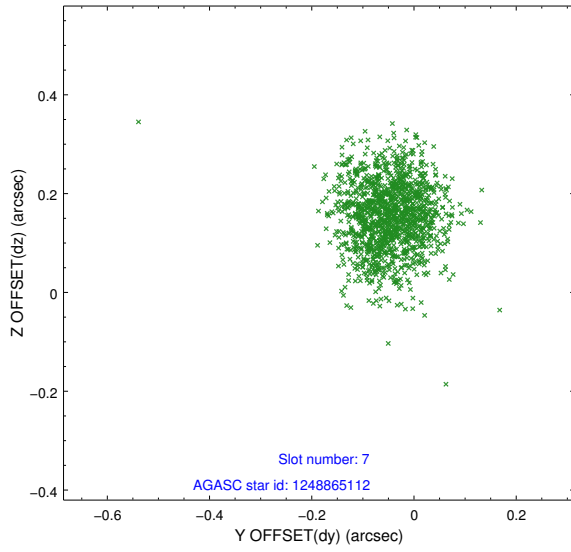
### 2.4.3 Slot 5



## 2.4.4 Slot 6

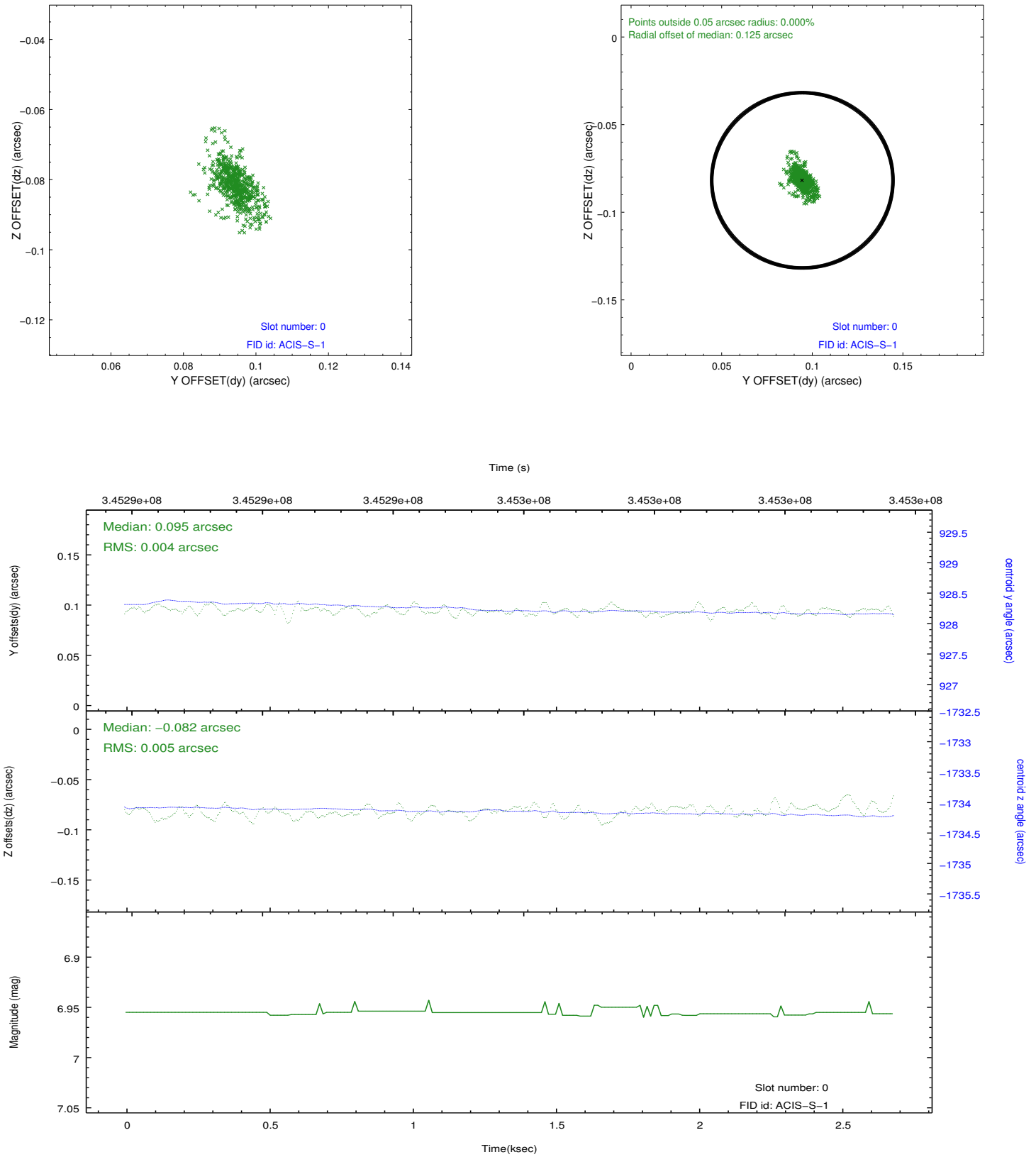


## 2.4.5 Slot 7

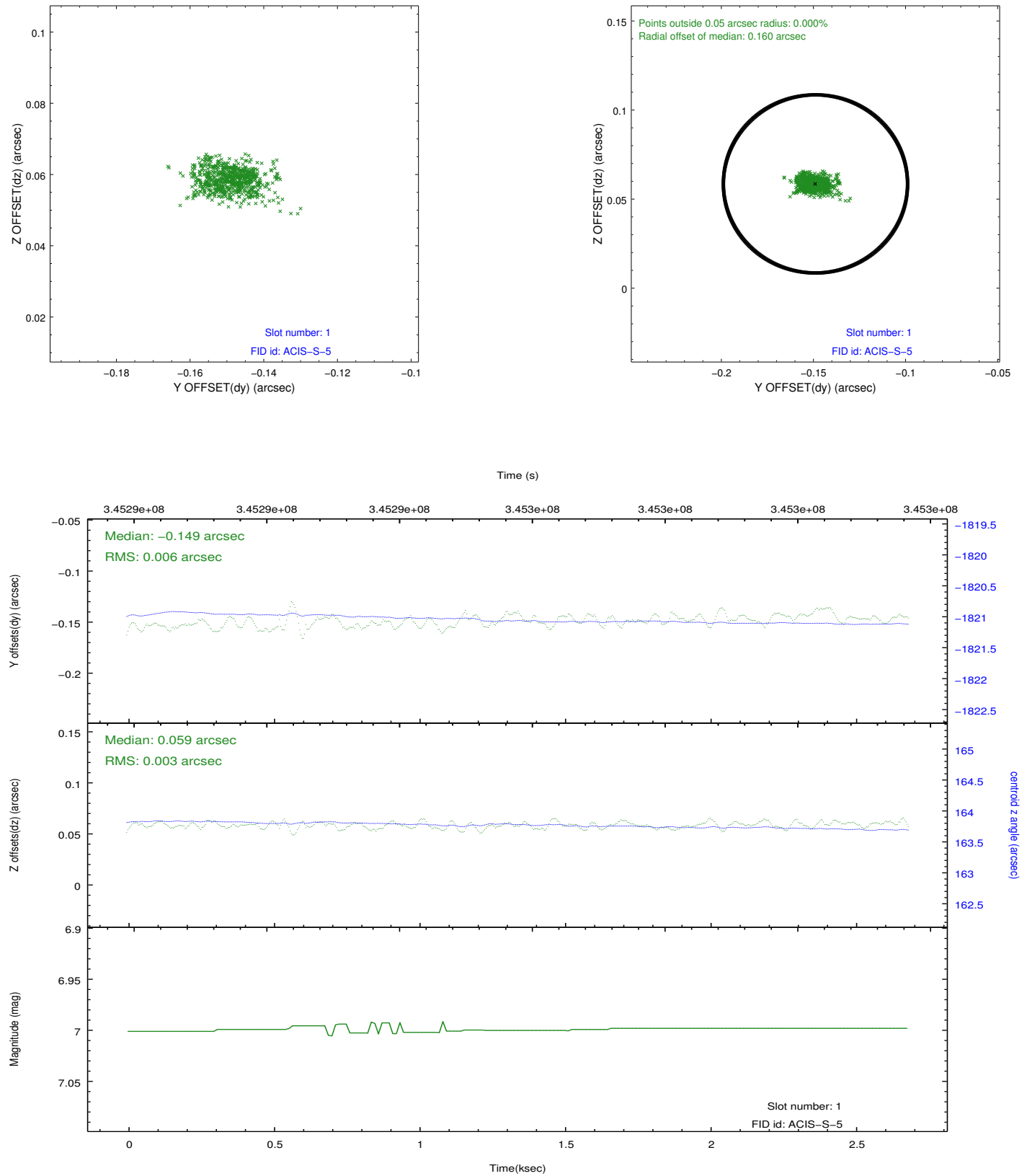


## 2.5 FID Slots

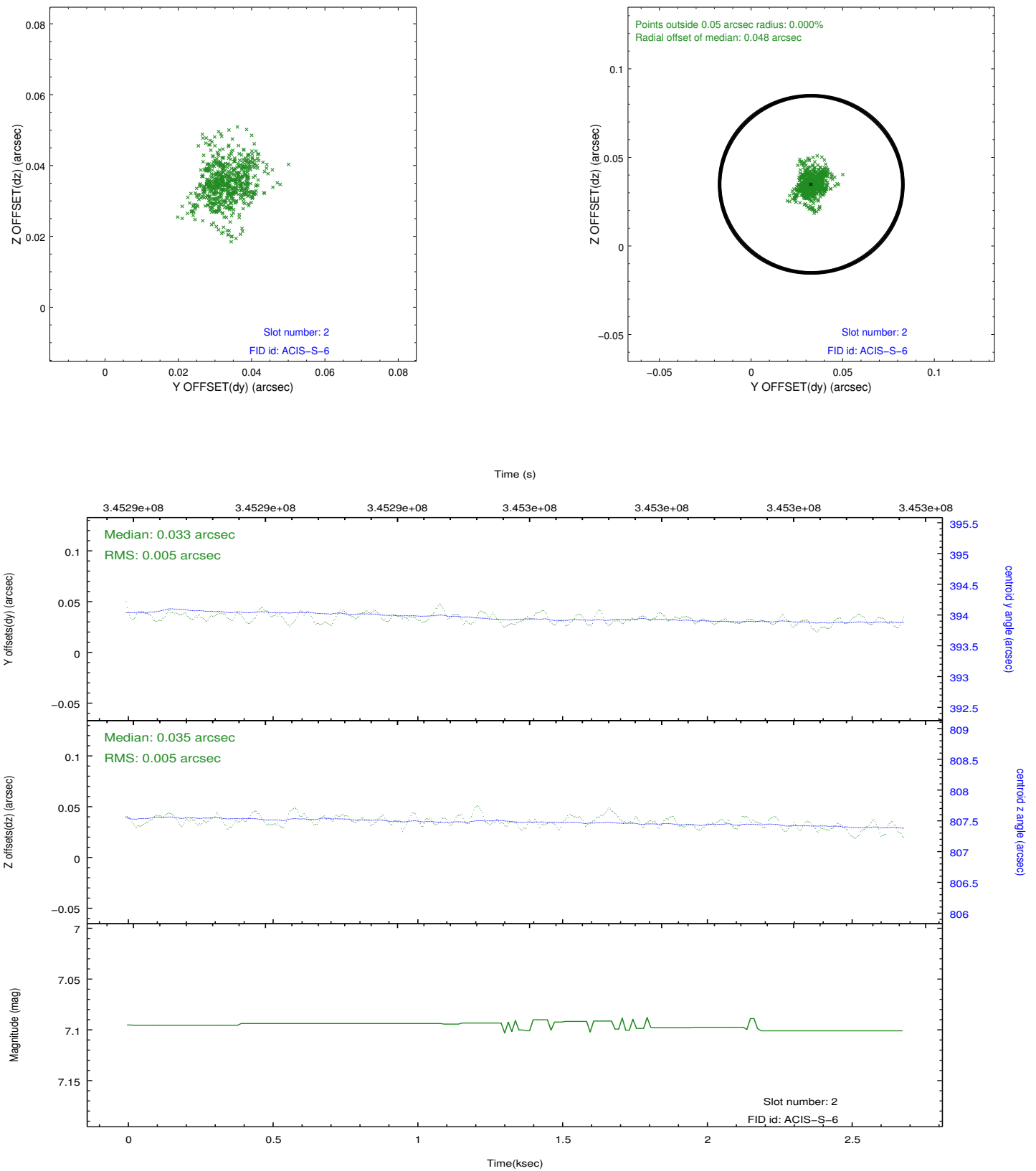
### 2.5.1 Slot 0



## 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)	2012.06.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.03360001

### A.2 Comments