

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 10745 - L2 Version 2  
Chandra X-Ray Center

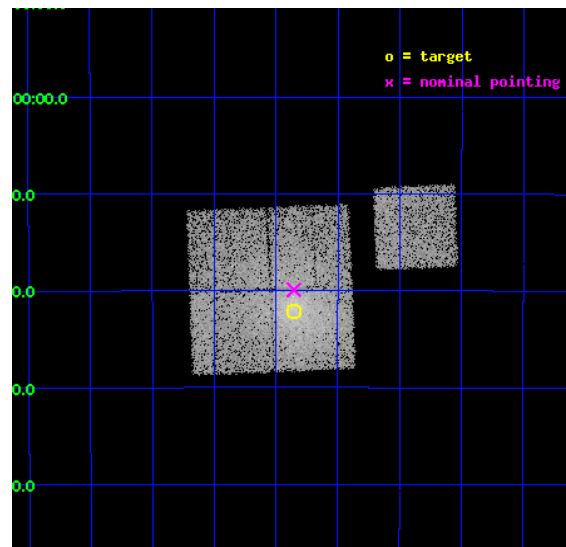
L2 Processing Date : May 24 2012

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# 1 Front

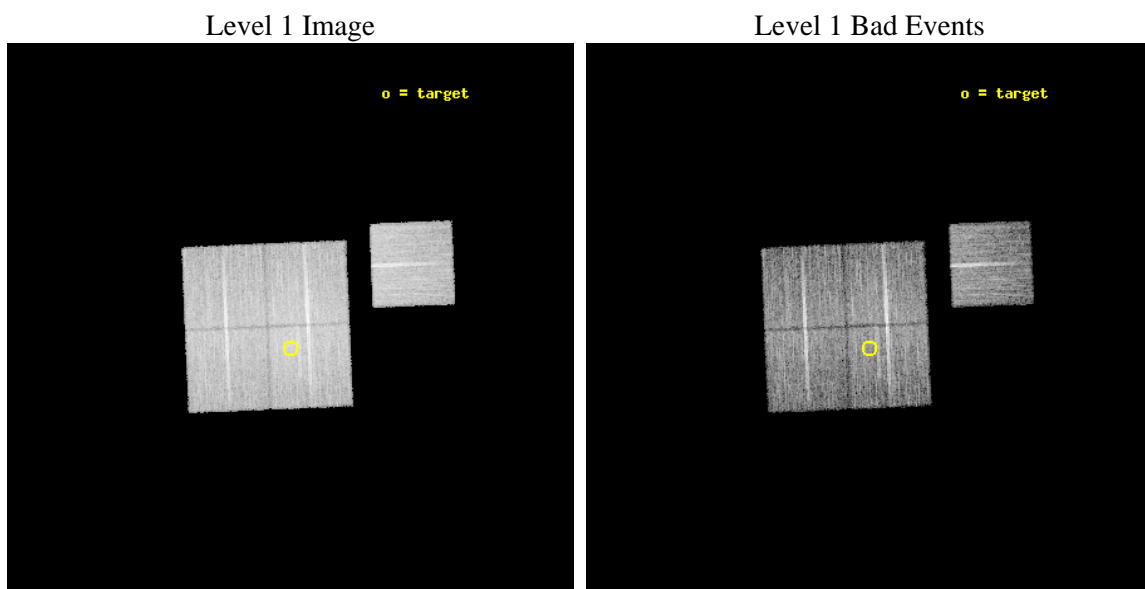
seq_num	800846	Sequence number
obs_id	10745	Observation id
title	Chandra observations of flux-limited sample of low-redshift galaxy clusters	Proposal title
observer	Dr. Stephen Murray	Principal investigator
object	A3532	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	194.339583	Observer's specified target RA [deg]
dec_targ	-30.369583	Observer's specified target Dec [deg]
ra_nom	194.33874877835	Nominal RA [deg]
dec_nom	-30.331834108591	Nominal Dec [deg]
roll_nom	87.586214956196	Nominal Roll [deg]
revision	2	Processing version of data
ontime	9768.0591148138	Sum of GTIs [s]
livetime	9640.4322313383	Livetime [s]
ontime0	9764.9181544781	Sum of GTIs [s]
ontime1	9771.2000751495	Sum of GTIs [s]
ontime2	9771.2000751495	Sum of GTIs [s]
ontime3	9768.0591148138	Sum of GTIs [s]
ontime6	9771.2000751495	Sum of GTIs [s]
l2events	52488	Number of level 2 events



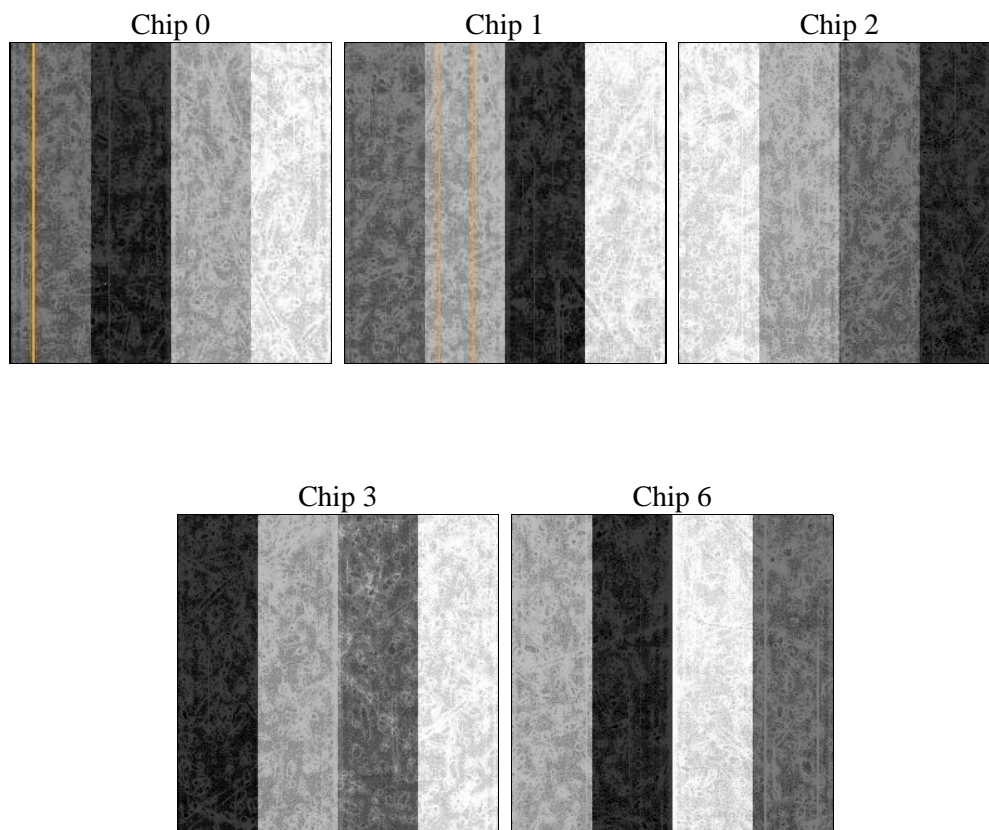
## 2 OBI

### 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	8.4.4	Processing system revision	ontime	9768.0591148138	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime0	9764.9181544781	Sum of GTIs [s]
date	2012-05-24T16:51:57	Date and time of file creation	ontime1	9771.2000751495	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	9771.2000751495	Sum of GTIs [s]
			ontime3	9768.0591148138	Sum of GTIs [s]
			ontime6	9771.2000751495	Sum of GTIs [s]
			l1events	421279	Number of level 1 events

### 2.1.4 Events

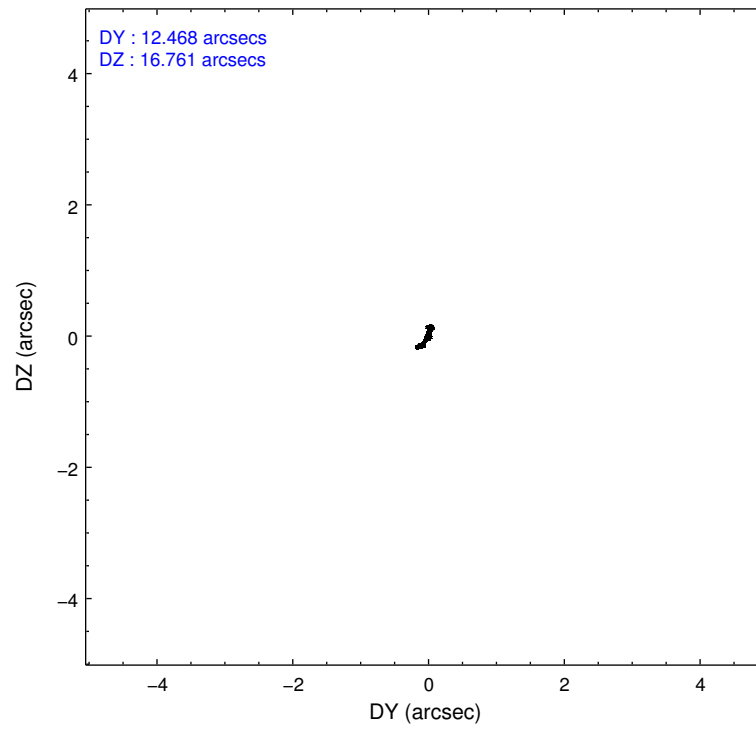
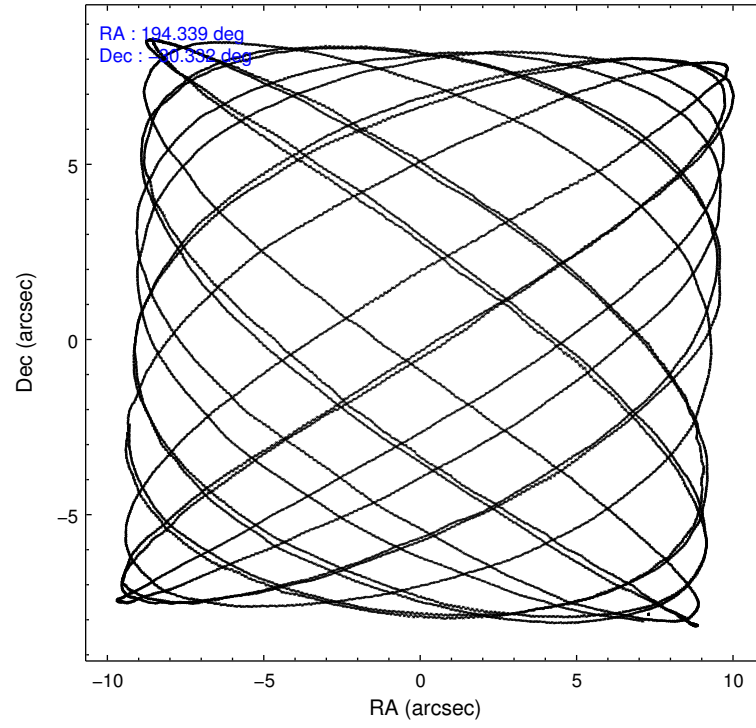
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	79561	79303	89265	91575	81575
rejected events	69824	67420	77977	72984	72478
rejected %	87%	85%	87%	79%	88%

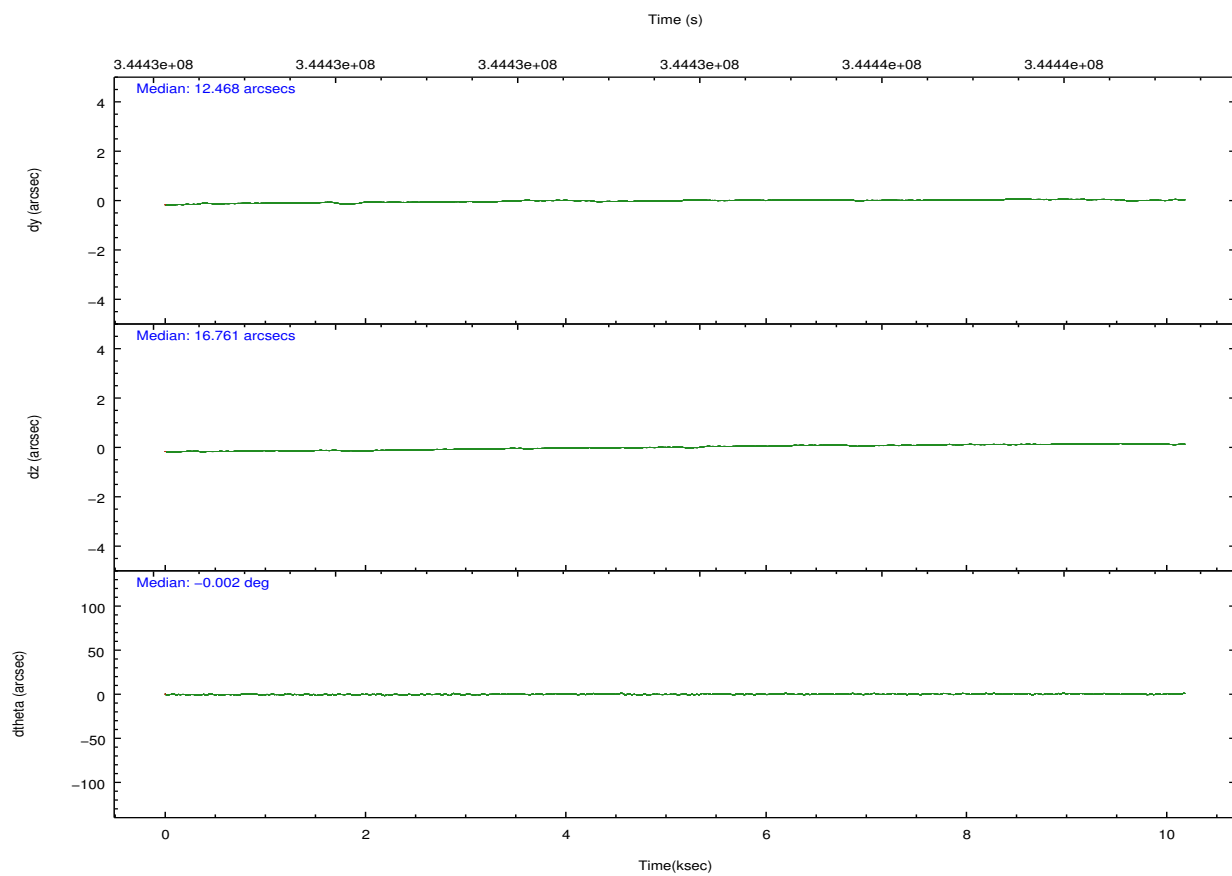
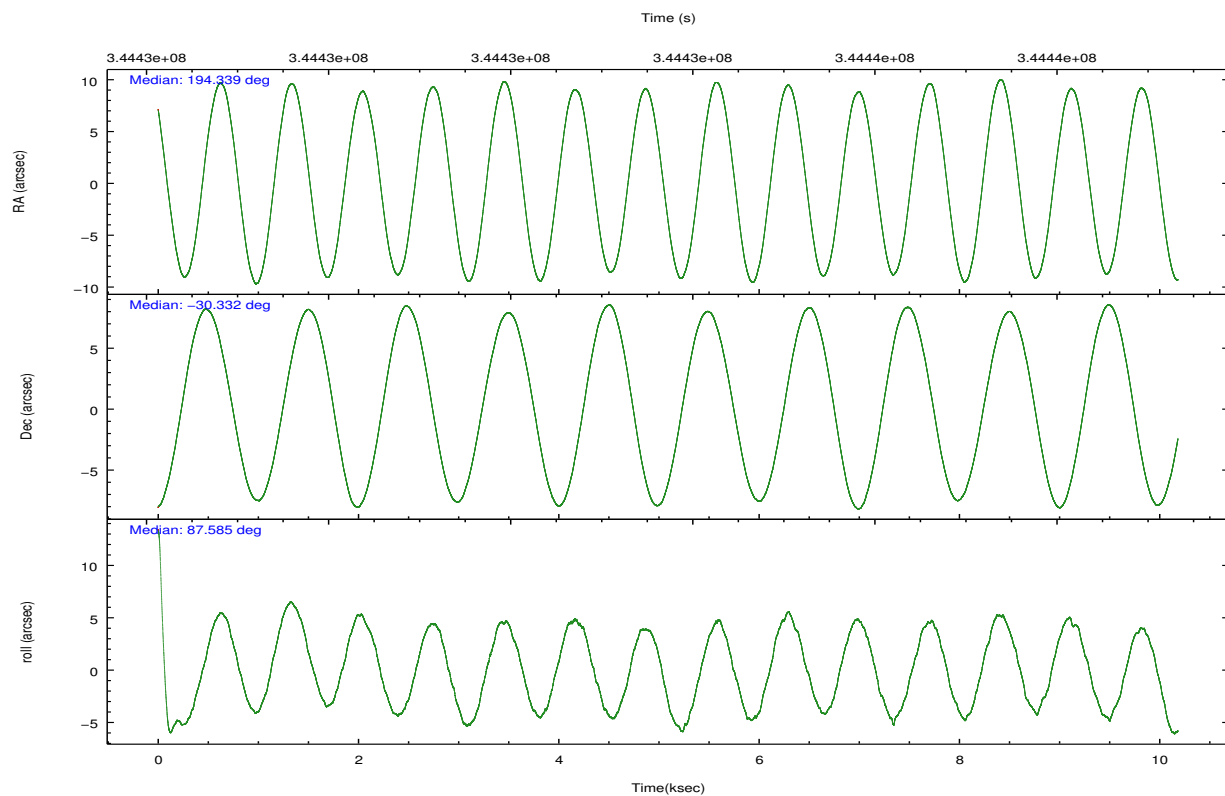
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	4068	5398	5494	11596	3452
	5%	6%	6%	12%	4%
grade 1 events	47	57	67	109	40
	0%	0%	0%	0%	0%
grade 2 events	2153	2450	2262	2795	1898
	2%	3%	2%	3%	2%
grade 3 events	984	1055	947	1207	936
	1%	1%	1%	1%	1%
grade 4 events	873	1036	979	1196	969
	1%	1%	1%	1%	1%
grade 5 events	2871	3245	2778	3368	3263
	3%	4%	3%	3%	4%
grade 6 events	1666	1956	1616	1809	1845
	2%	2%	1%	1%	2%
grade 7 events	66899	64106	75122	69495	69172
	84%	80%	84%	75%	84%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	194.353641	194.338748778348	CCD I2 on	Y	Y
[deg] Pointing Dec	-30.356124	-30.33183410859104	CCD I3 on	Y	Y
[deg] Pointing Roll	87.385040	87.58621495619613	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-228.592463	-228.5990329025337	CCD S3 on	N	N
[mm] SIM translation stage offset	-5	-4.993420100396037	CCD S4 on	N	N
[s] Observation start time (MET)	344428822.184000	344428411.27536	CCD S5 on	N	N
Observation start date	2008-11-30T10:39:17	2008-11-30T10:33:31	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	344438822.184000	344439808.25093	On-chip summing requested	N	N
Observation end date	2008-11-30T13:25:57	2008-11-30T13:43:28	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



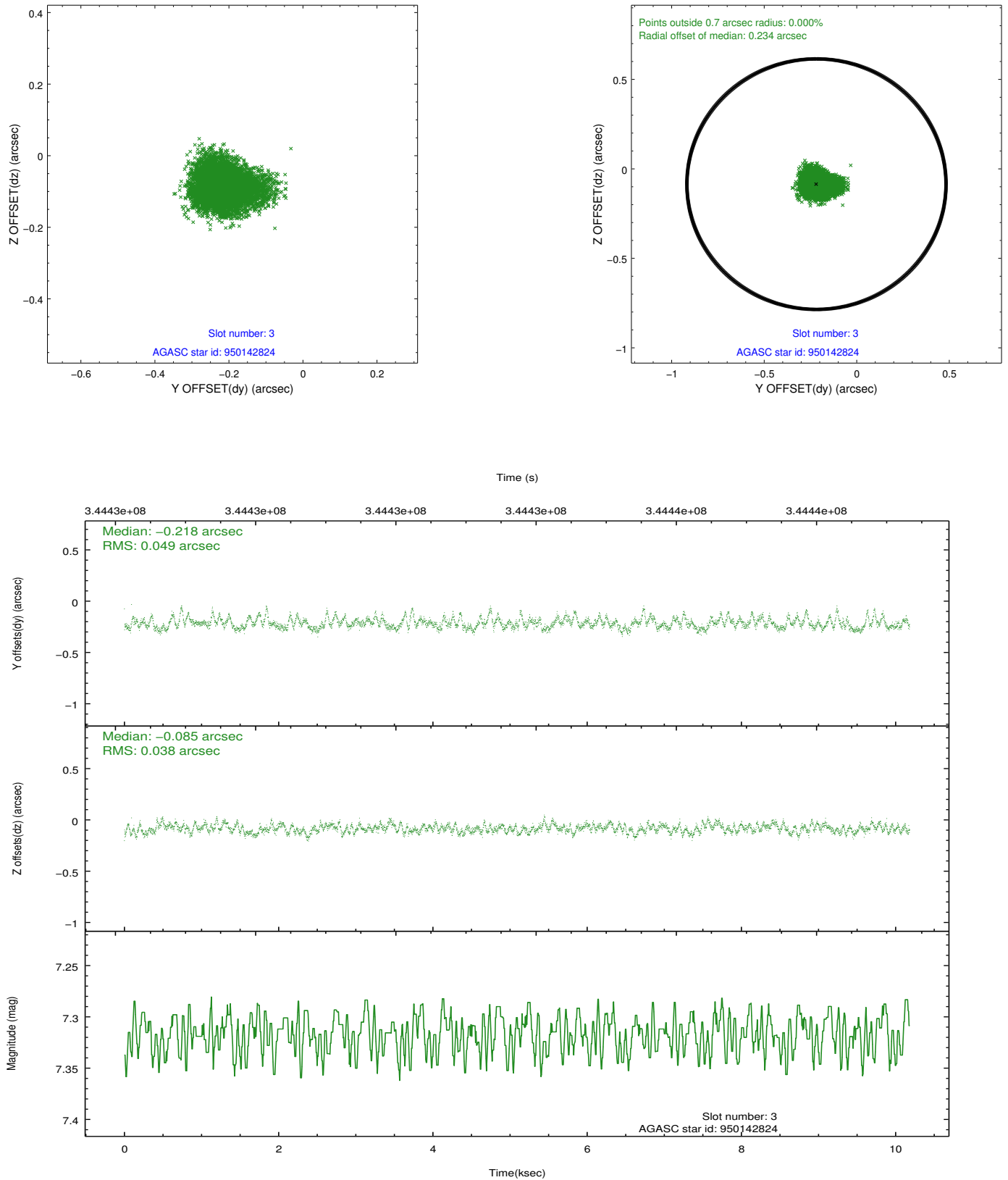


### Slot Statistics

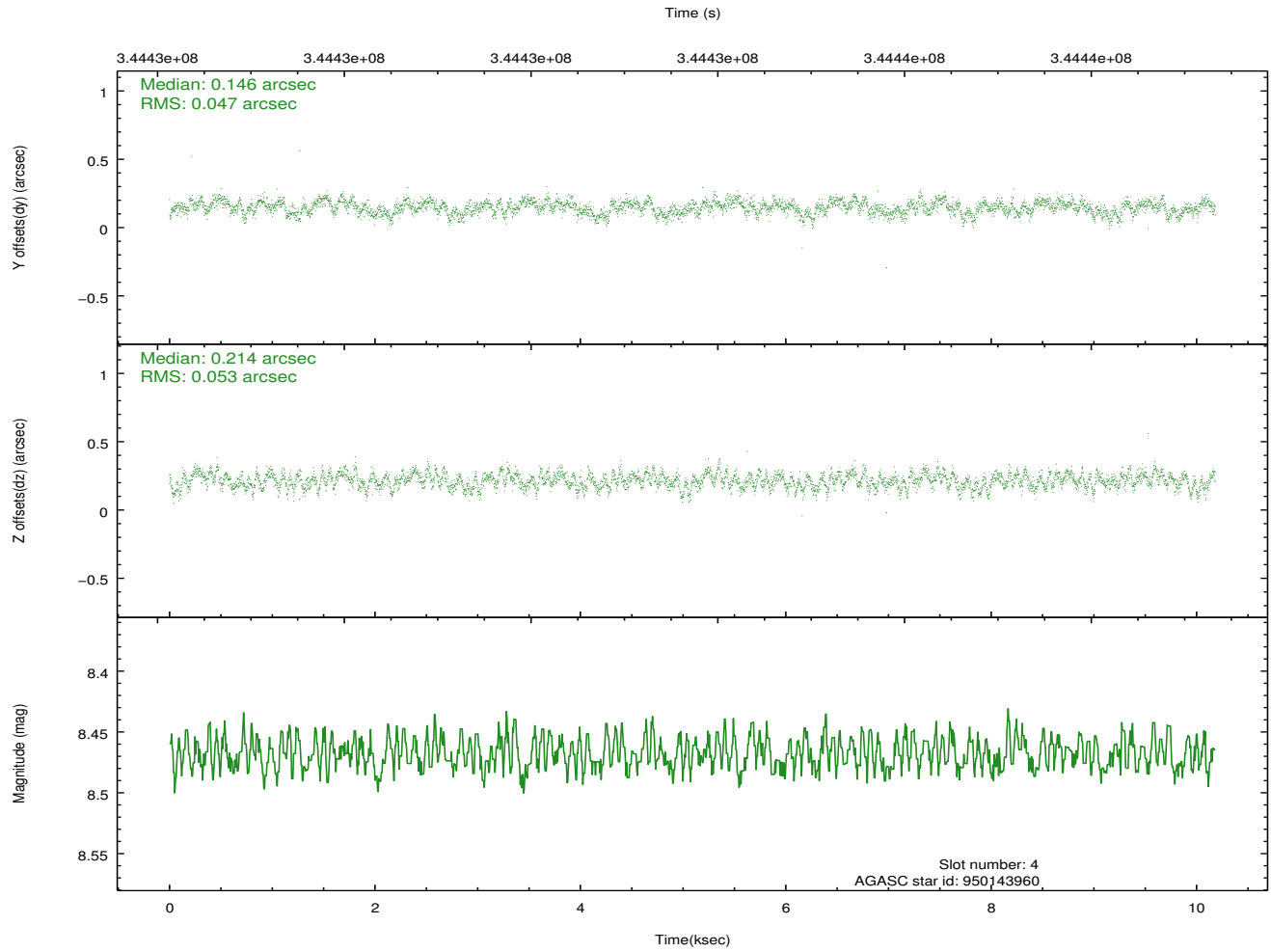
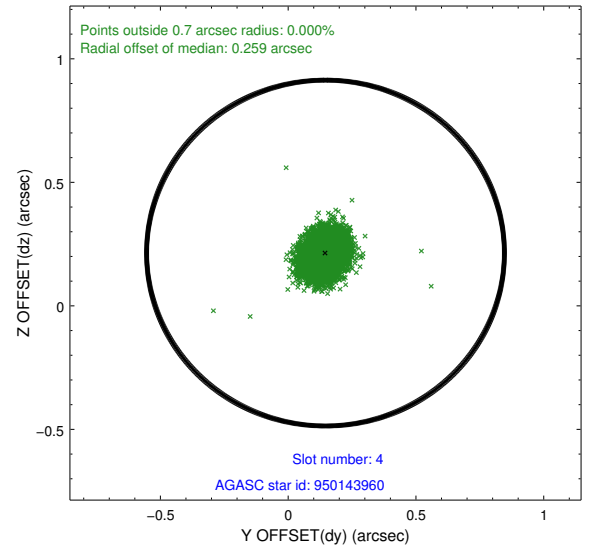
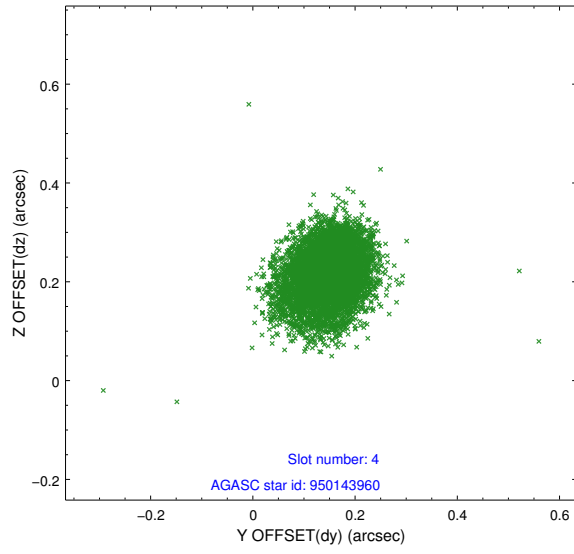
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.00	2484	0.065	-0.033	0.008	0.014	0.000000	0.000000	927.06	-942.91
1	FID	ACIS-I-5	6.98	2484	-0.199	0.072	0.007	0.011	0.000000	0.000000	-1821.04	954.36
2	FID	ACIS-I-6	6.99	2484	0.043	0.031	0.007	0.011	0.000000	0.000000	392.00	1599.43
3	GUIDE	950142824	7.32	4968	-0.218	-0.085	0.066	0.108	193.885222	-30.070108	958.95	1504.66
4	GUIDE	950143960	8.47	4967	0.146	0.214	0.075	0.117	195.041282	-30.602749	-795.57	-2168.66
5	GUIDE	950146288	9.33	4959	0.052	-0.062	0.094	0.152	194.155257	-30.004491	1235.56	675.00
6	GUIDE	950147888	9.13	4938	0.178	-0.133	0.100	0.163	194.332085	-30.410459	-197.71	58.27
7	GUIDE	950148784	8.44	4965	-0.163	0.063	0.061	0.097	194.603309	-31.000403	-2282.64	-875.36

## 2.4 Star Slots

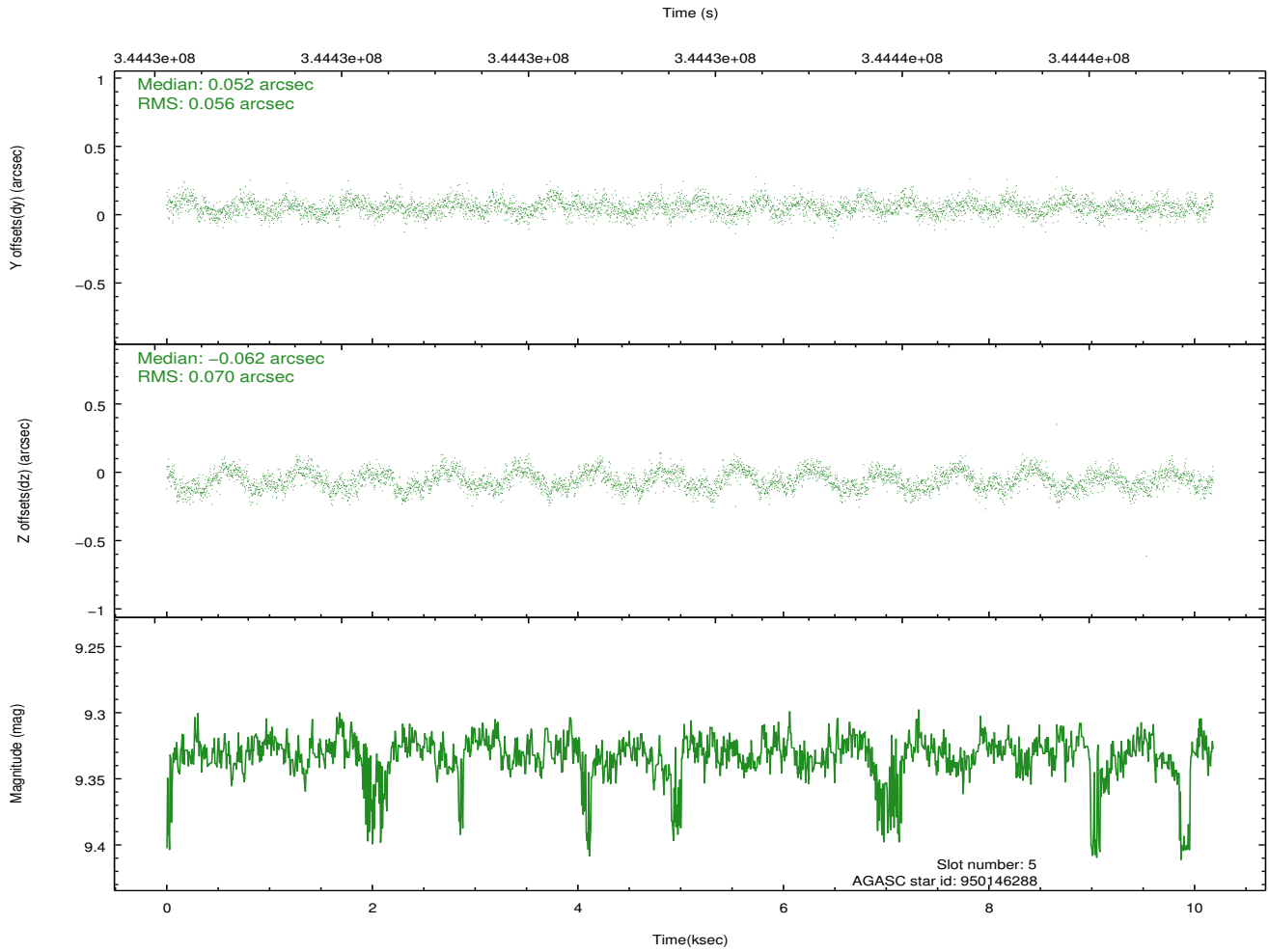
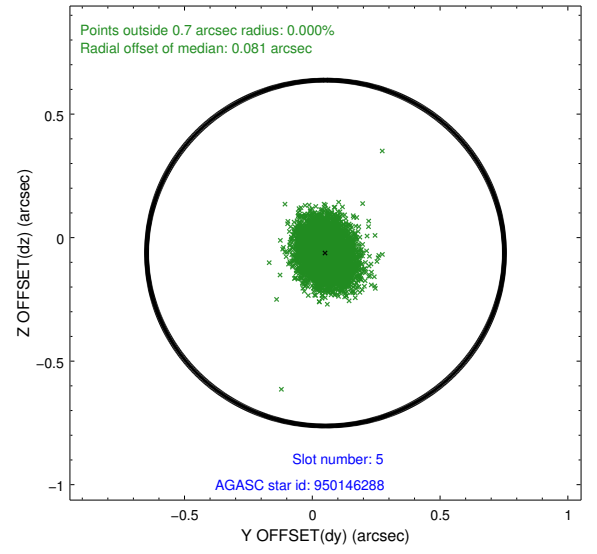
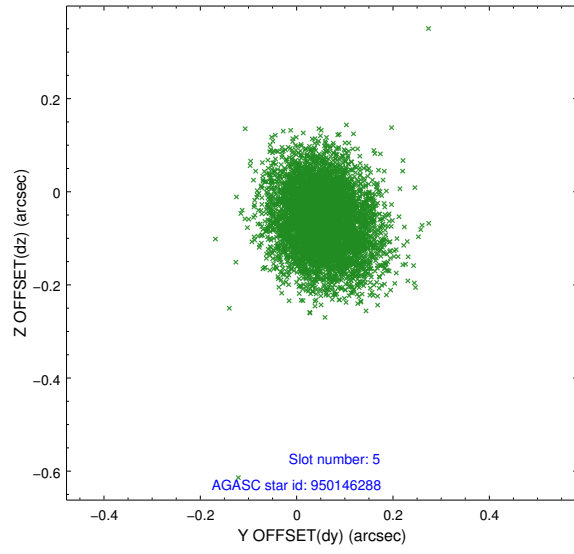
### 2.4.1 Slot 3



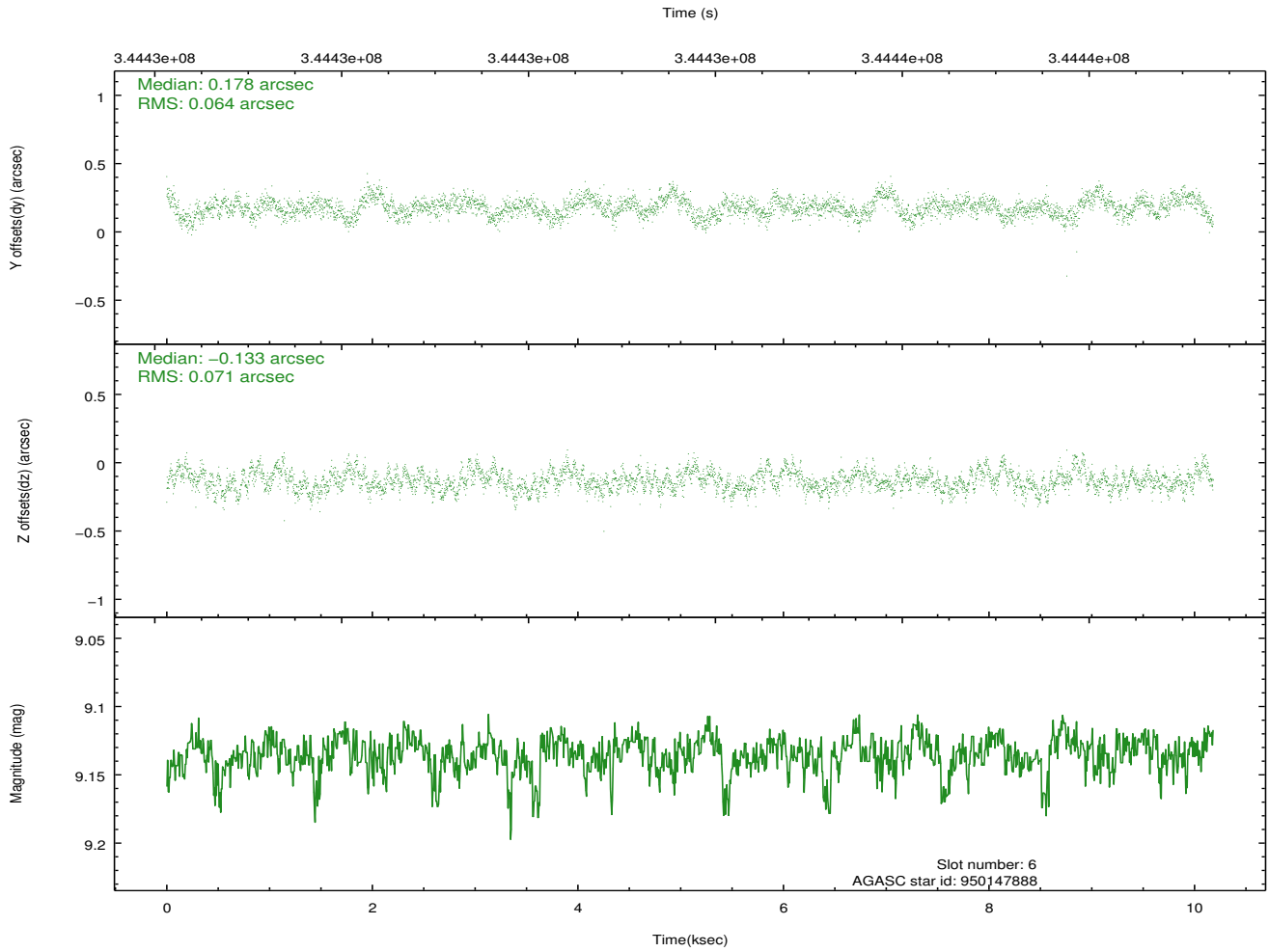
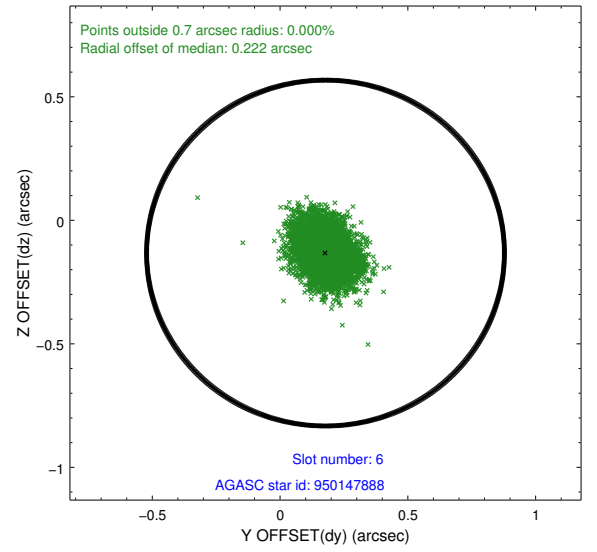
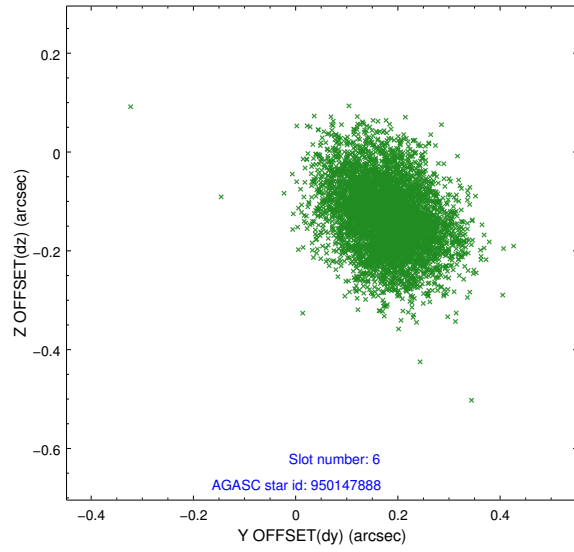
## 2.4.2 Slot 4



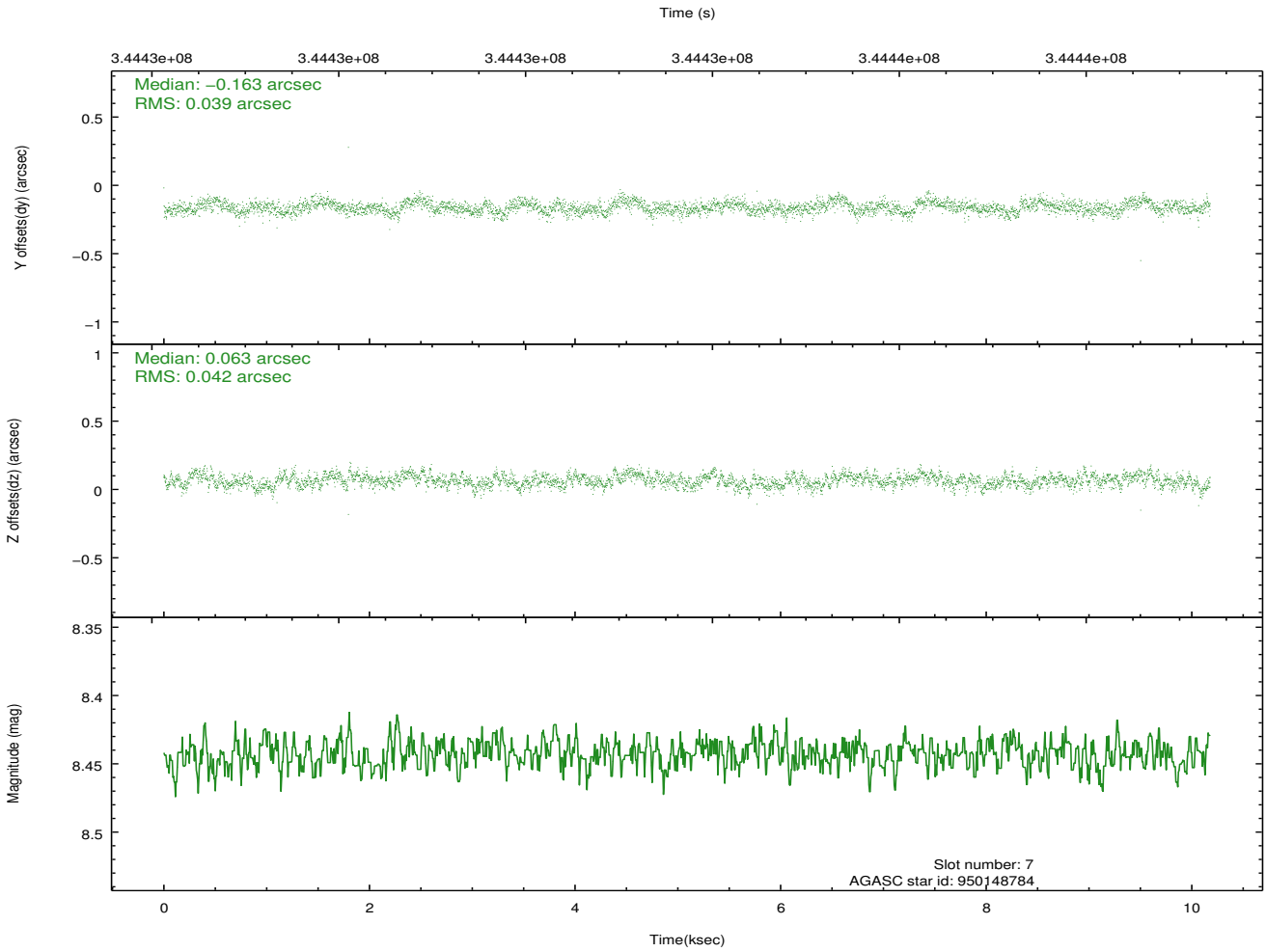
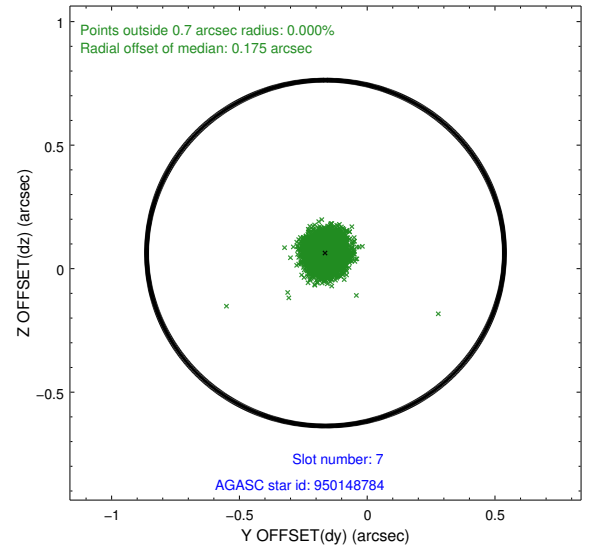
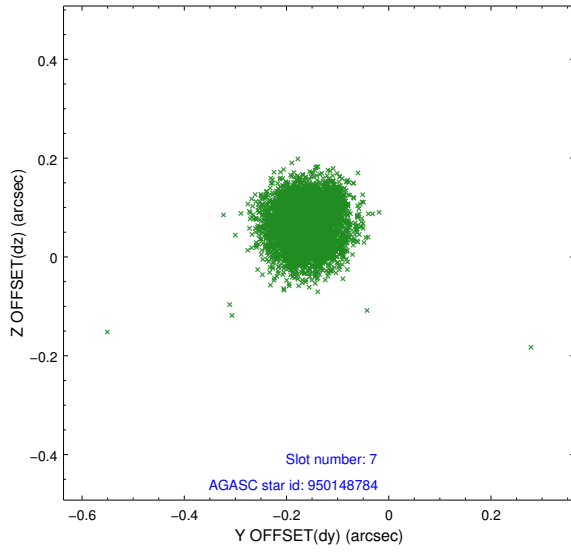
### 2.4.3 Slot 5



## 2.4.4 Slot 6

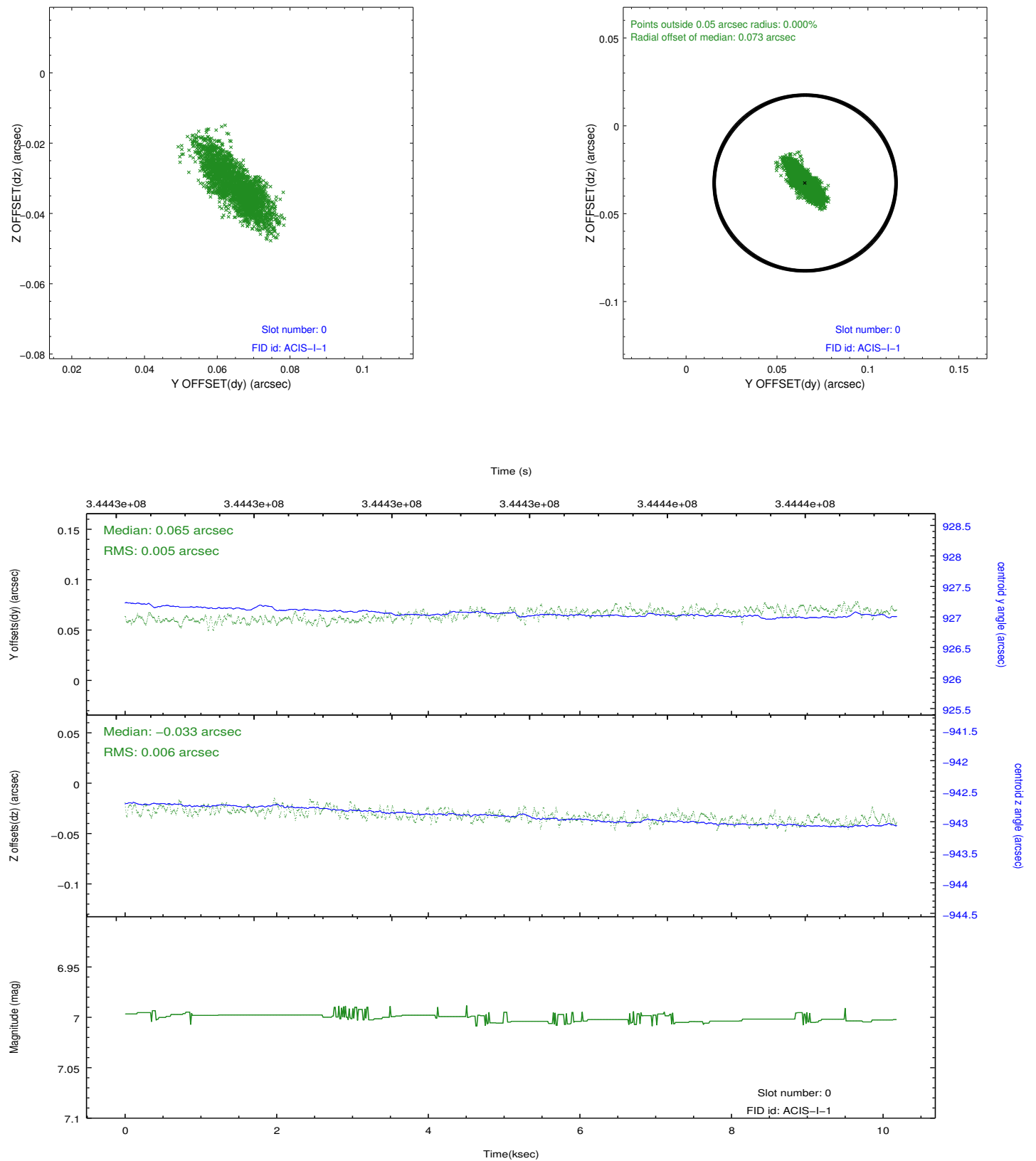


## 2.4.5 Slot 7

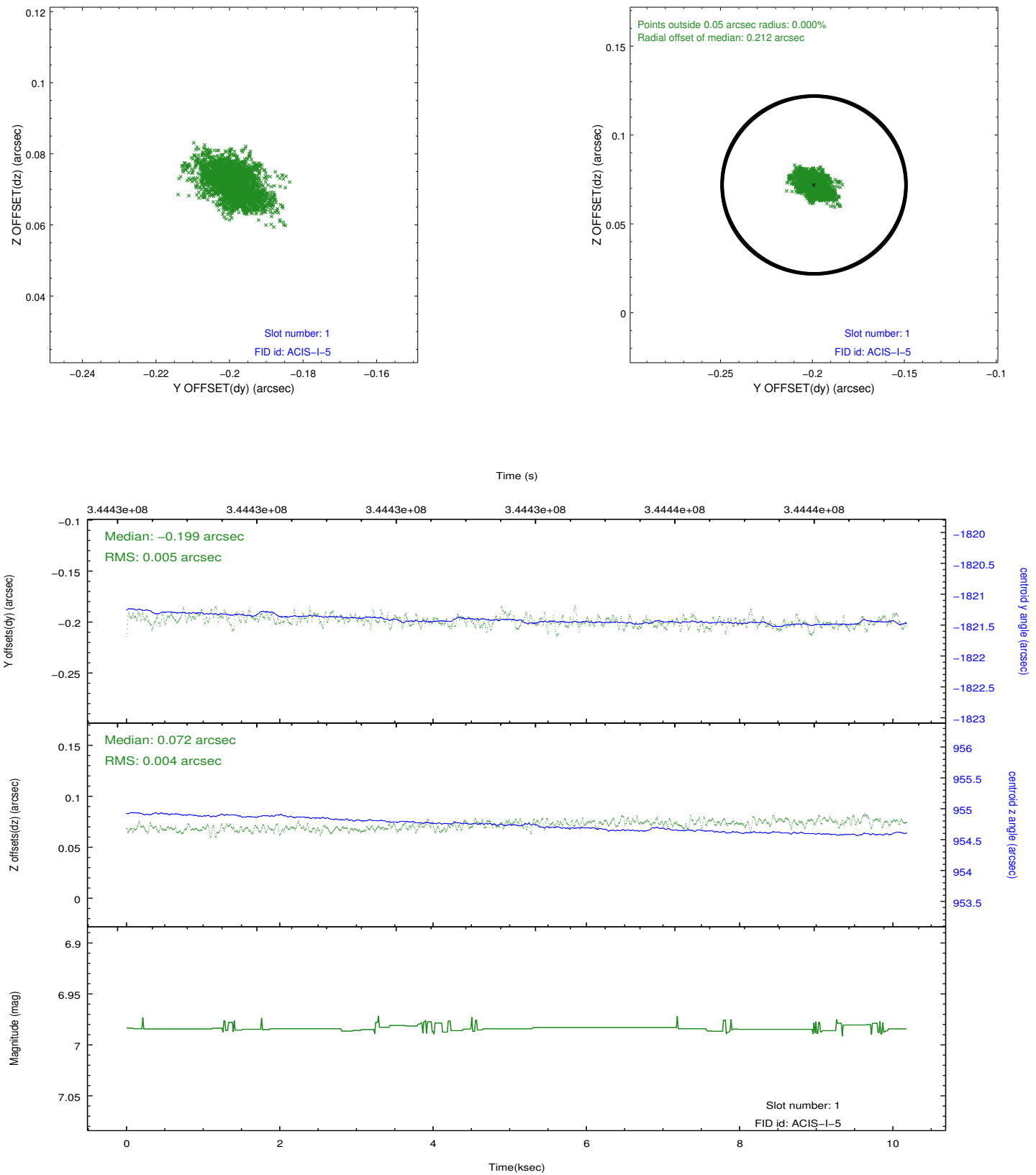


## 2.5 FID Slots

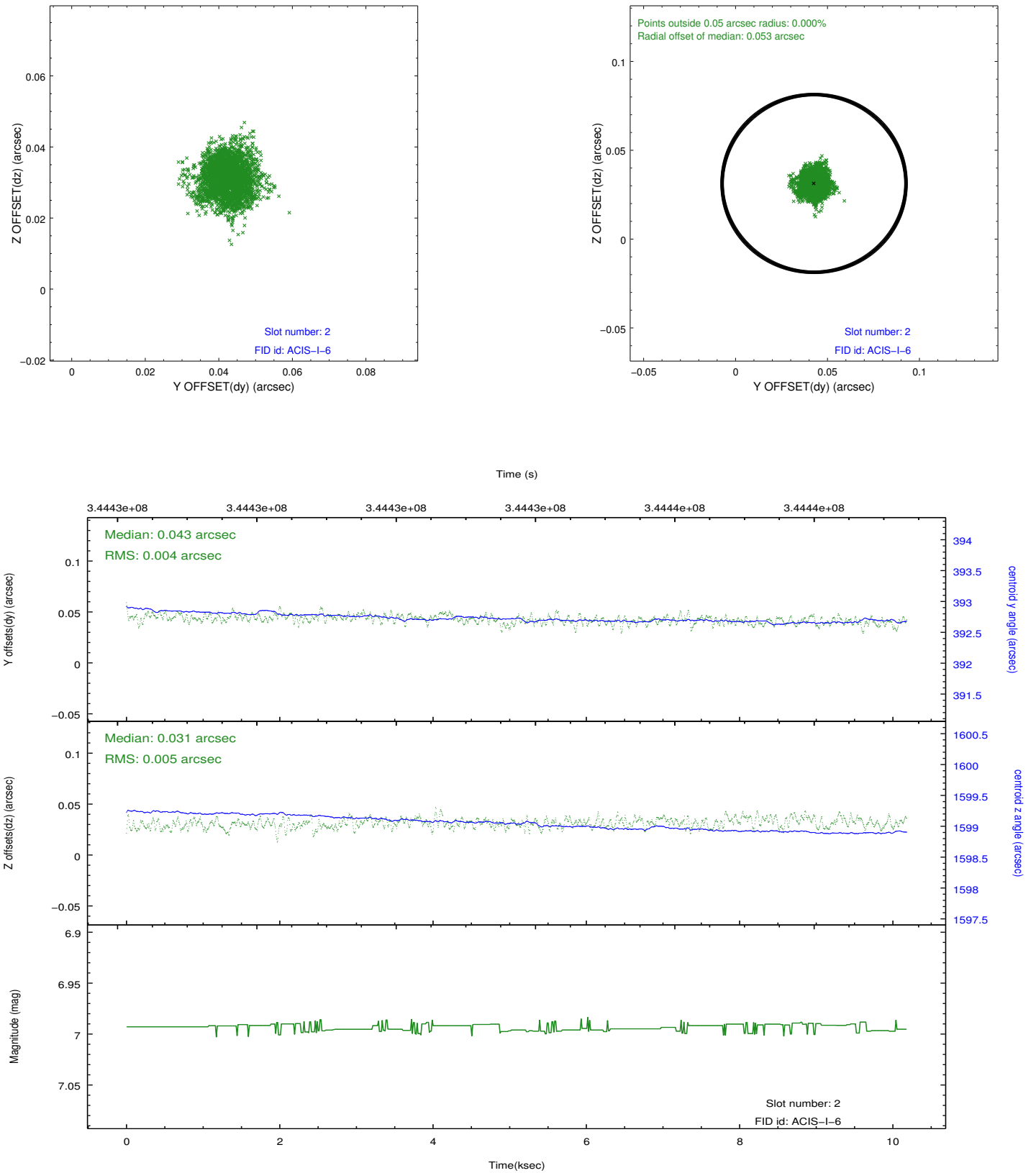
### 2.5.1 Slot 0



## 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)	2012.05.31
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.76805911

### A.2 Comments