

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9203 - L2 Version 2  
Chandra X-Ray Center

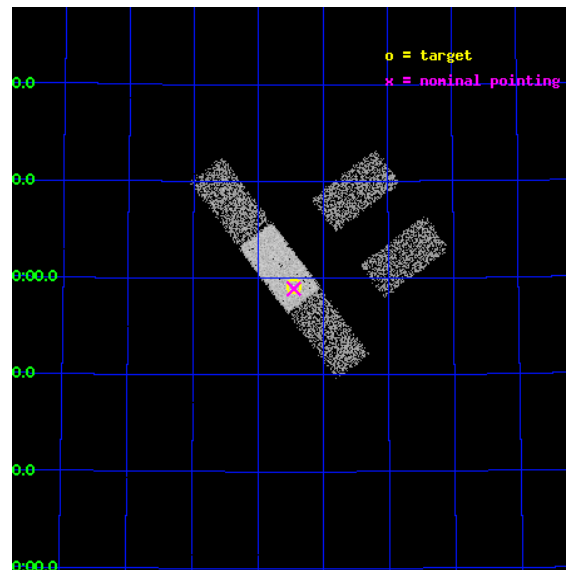
L2 Processing Date : May 12 2012

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# 1 Front

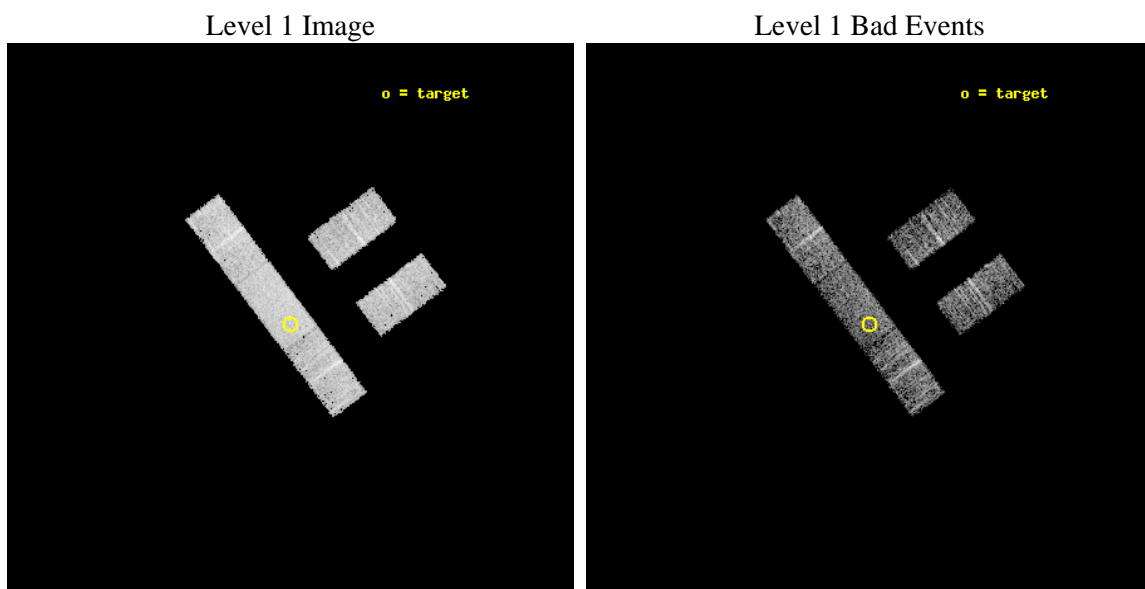
seq_num	701645	Sequence number
obs_id	9203	Observation id
title	Lower Luminosity AGNs at Cosmologically Interesting Redshifts: SEDs and Accretion Rates of $z \sim 0.36$ Seyferts	Proposal title
observer	Dr. Sarah Gallagher	Principal investigator
object	S31	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	153.86375	Observer's specified target RA [deg]
dec_targ	62.986528	Observer's specified target Dec [deg]
ra_nom	153.86286527192	Nominal RA [deg]
dec_nom	62.981769618973	Nominal Dec [deg]
roll_nom	232.95516328072	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3184.0999777317	Sum of GTIs [s]
livetime	3109.043997923	Livetime [s]
ontime2	3184.0999777317	Sum of GTIs [s]
ontime3	3184.0999777317	Sum of GTIs [s]
ontime6	3184.0999777317	Sum of GTIs [s]
ontime7	3184.0999777317	Sum of GTIs [s]
ontime8	3184.0999777317	Sum of GTIs [s]
l2events	16370	Number of level 2 events



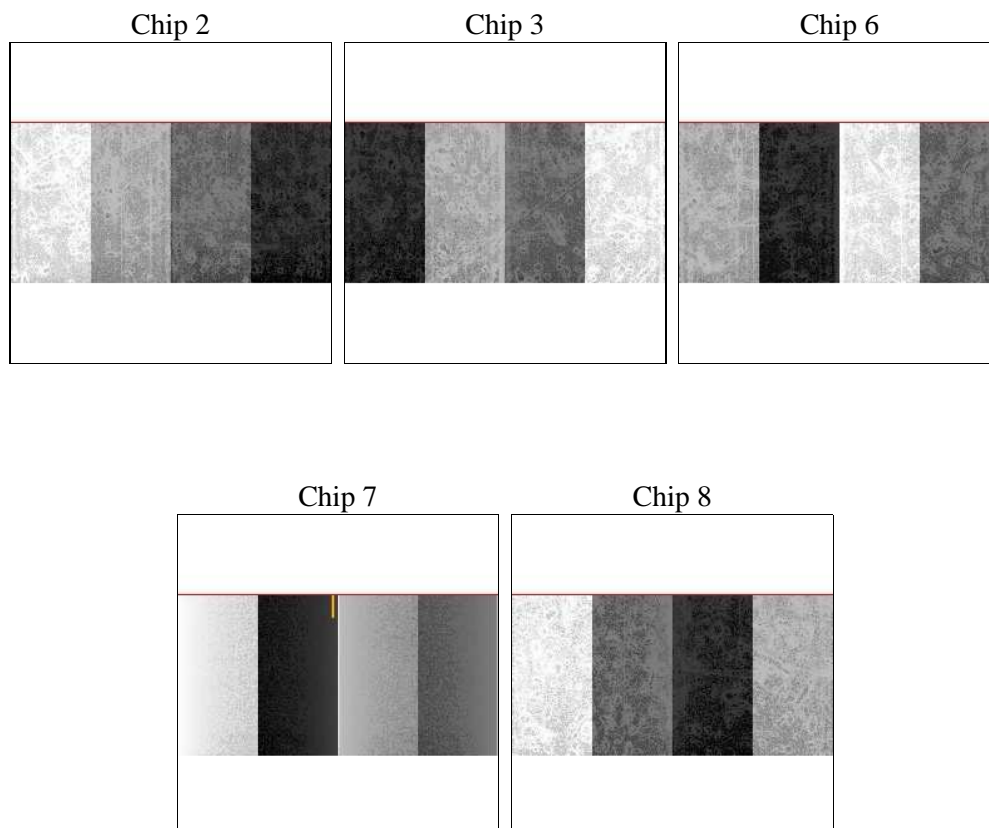
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	3184.0999777317	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime2	3184.0999777317	Sum of GTIs [s]
date	2012-05-13T01:05:16	Date and time of file creation	ontime3	3184.0999777317	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	3184.0999777317	Sum of GTIs [s]
			ontime7	3184.0999777317	Sum of GTIs [s]
			ontime8	3184.0999777317	Sum of GTIs [s]
			l1events	100531	Number of level 1 events

### 2.1.4 Events

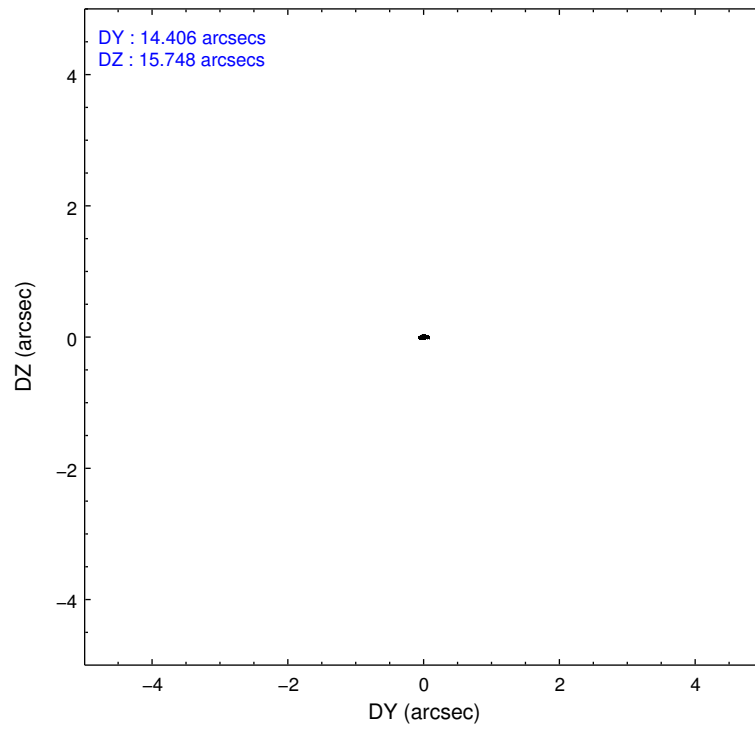
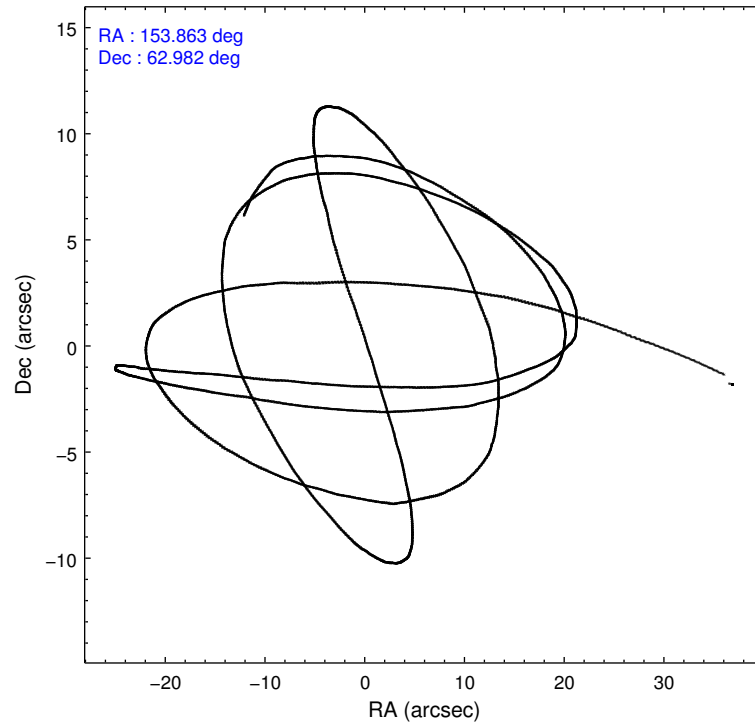
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	17382	17061	18375	24289	23424
rejected events	15349	15057	16264	14901	18819
rejected %	88%	88%	88%	61%	80%

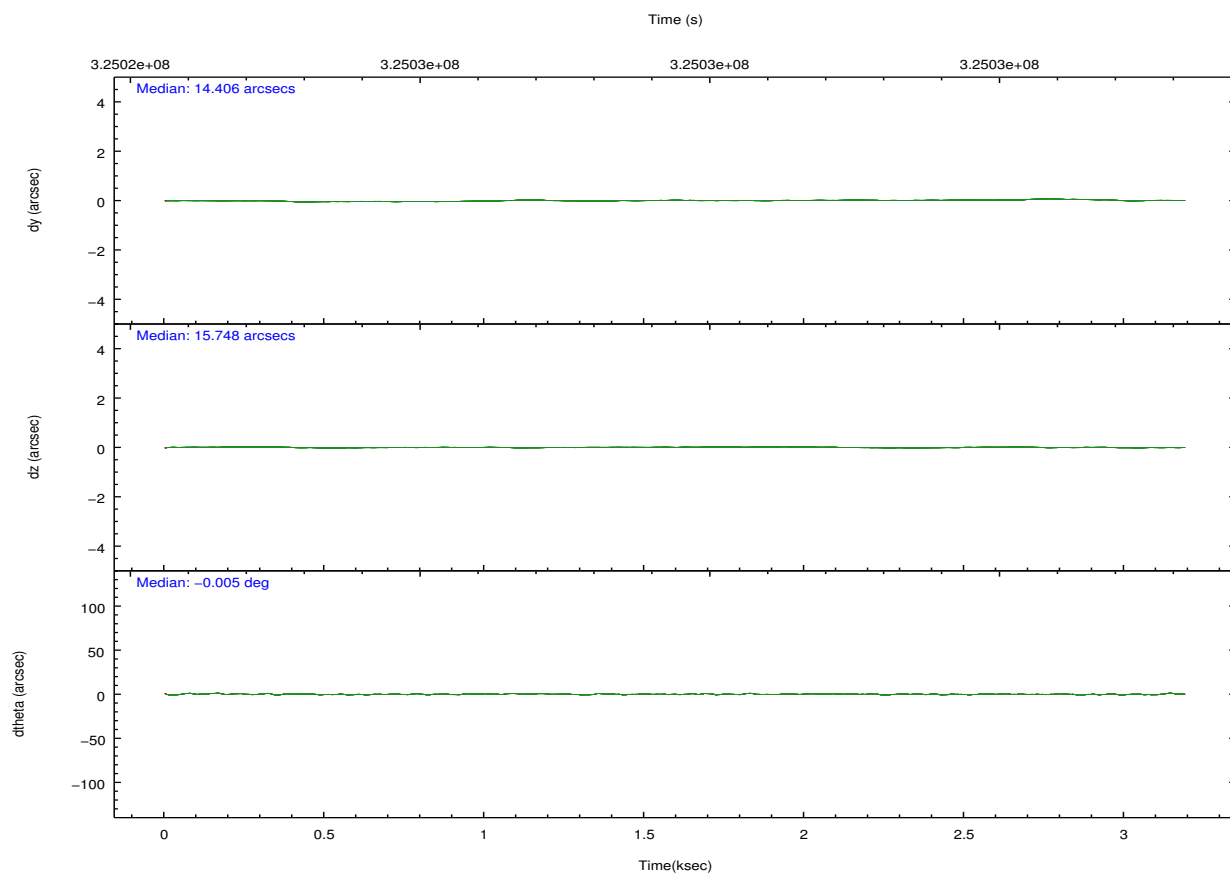
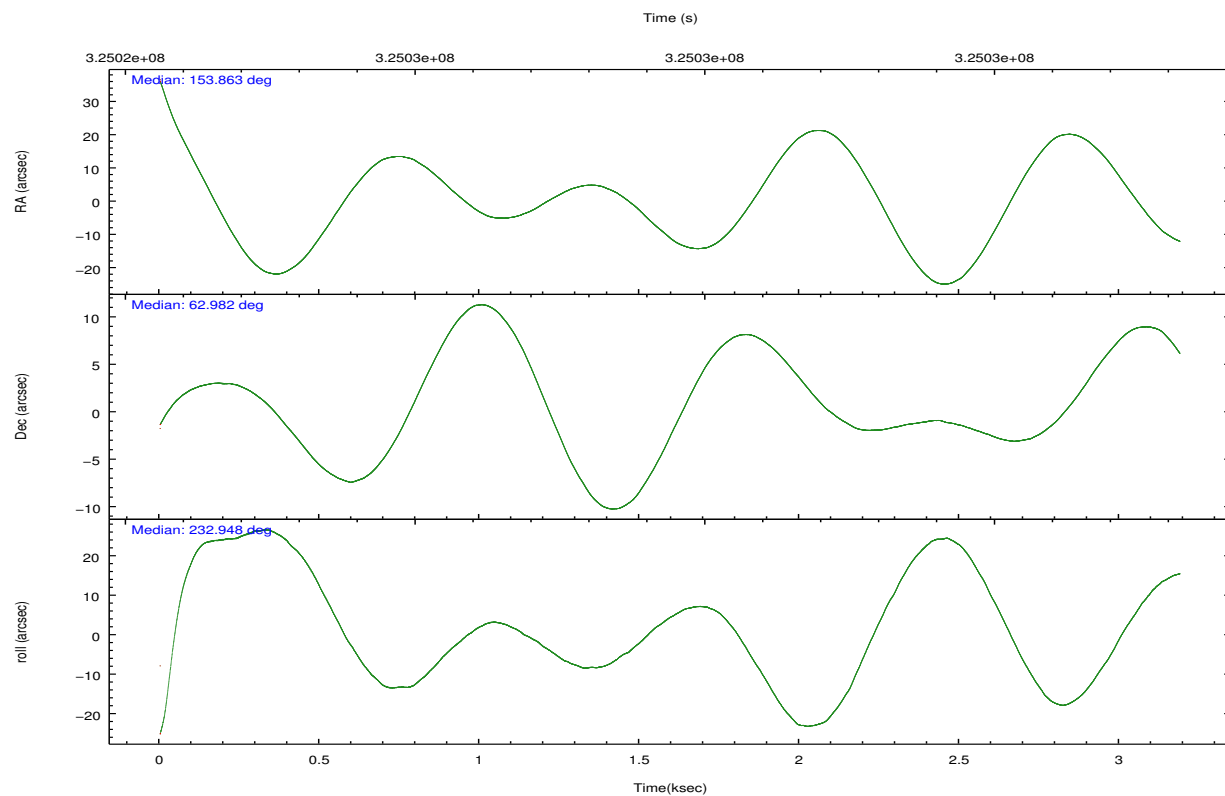
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	969	899	907	967	1462
	5%	5%	4%	3%	6%
grade 1 events	13	8	7	19	17
	0%	0%	0%	0%	0%
grade 2 events	420	405	441	2129	1141
	2%	2%	2%	8%	4%
grade 3 events	241	251	245	952	496
	1%	1%	1%	3%	2%
grade 4 events	250	244	256	962	453
	1%	1%	1%	3%	1%
grade 5 events	665	793	786	2369	1172
	3%	4%	4%	9%	5%
grade 6 events	337	409	458	5212	1428
	1%	2%	2%	21%	6%
grade 7 events	14487	14052	15275	11679	17255
	83%	82%	83%	48%	73%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	153.869316	153.8628652719214	CCD I2 on	O1	Y
[deg] Pointing Dec	63.008876	62.98176961897335	CCD I3 on	Y	Y
[deg] Pointing Roll	232.792888	232.9551632807157	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[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)	325025473.184000	325024366.68887	CCD S5 on	N	N
Observation start date	2008-04-19T20:50:08	2008-04-19T20:32:46	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	325028473.184000	325029110.3891	On-chip summing requested	N	N
Observation end date	2008-04-19T21:40:08	2008-04-19T21:51:50	Subarray requested	CUSTOM	1/2
Read mode	TIMED	TIMED	Subarray start row	257	257
			Subarray row count	512	512
			Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	1.7

## 2.3 Aspect





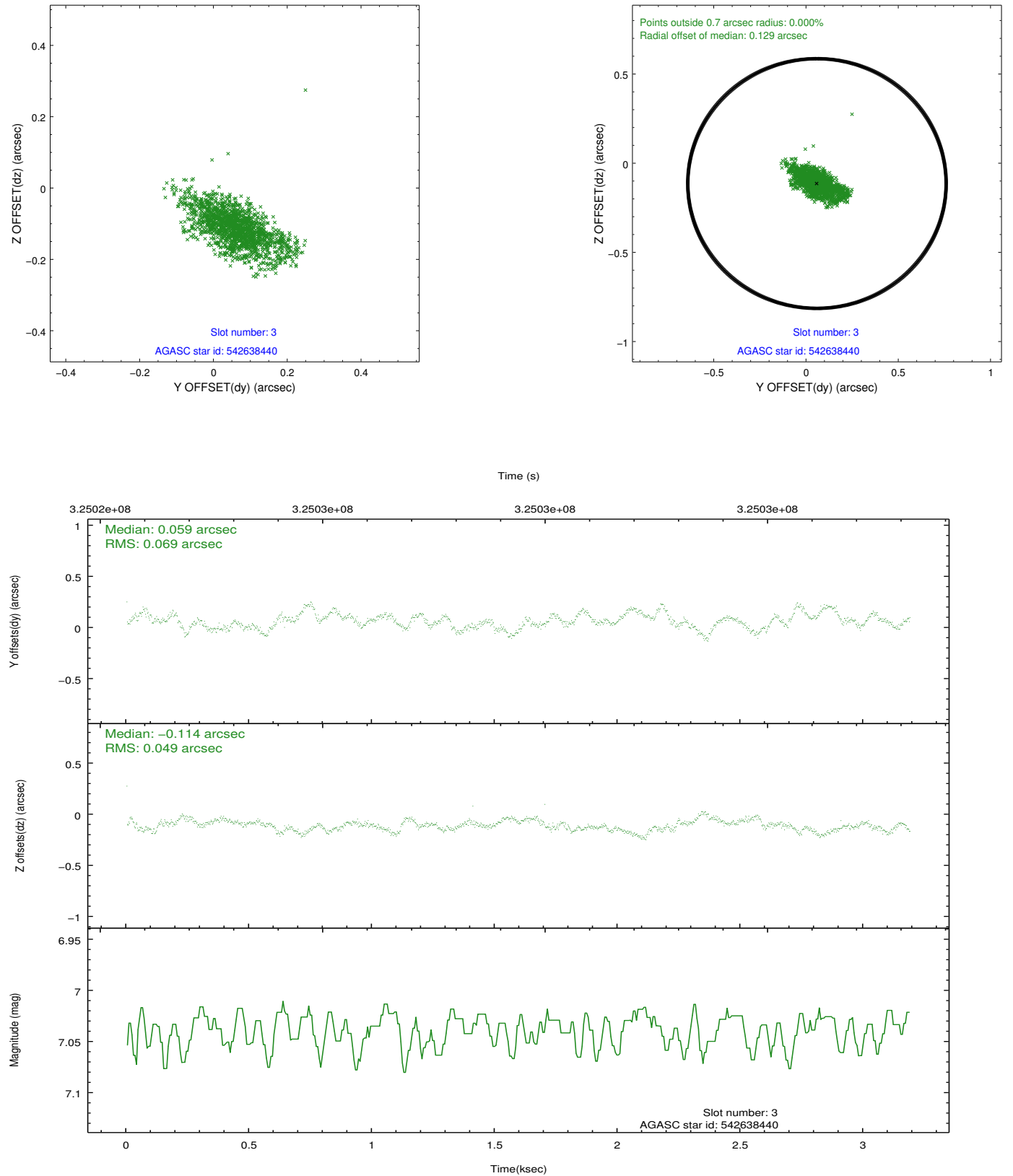
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-4	6.97	778	0.136	-0.008	0.005	0.010	0.000000	0.000000	2146.13	171.53
1	FID	ACIS-S-5	7.00	778	-0.185	-0.013	0.005	0.010	0.000000	0.000000	-1817.83	165.16
2	FID	ACIS-S-6	7.10	778	0.020	0.035	0.006	0.011	0.000000	0.000000	392.09	808.97
3	GUIDE	542638440	7.04	1556	0.059	-0.114	0.084	0.157	152.592665	62.915622	1518.37	-1475.02
4	GUIDE	542640888	9.43	1554	-0.070	-0.181	0.096	0.152	153.442135	63.501393	-997.13	-1620.89
5	GUIDE	542642312	9.74	1551	-0.022	0.069	0.146	0.242	153.640780	63.584549	-1429.61	-1545.88
6	GUIDE	543163088	10.03	1551	-0.128	0.188	0.217	0.331	154.327274	62.475774	1065.09	1765.41
7	GUIDE	543562752	9.60	1553	0.156	0.033	0.118	0.192	154.845994	62.819863	-437.63	1684.74

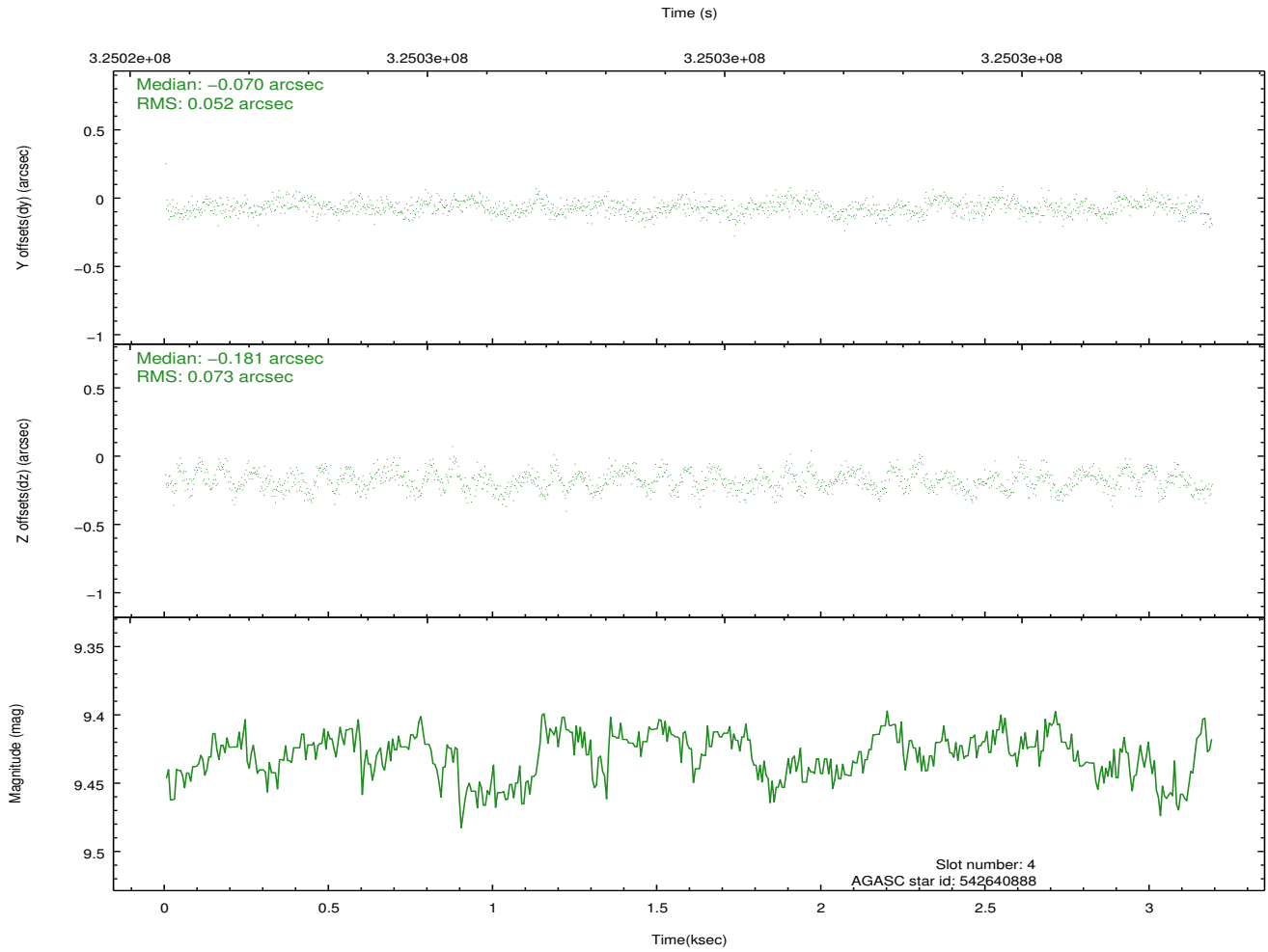
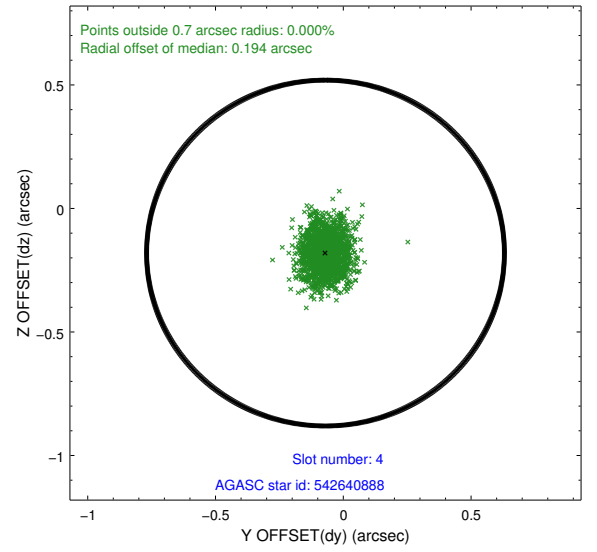
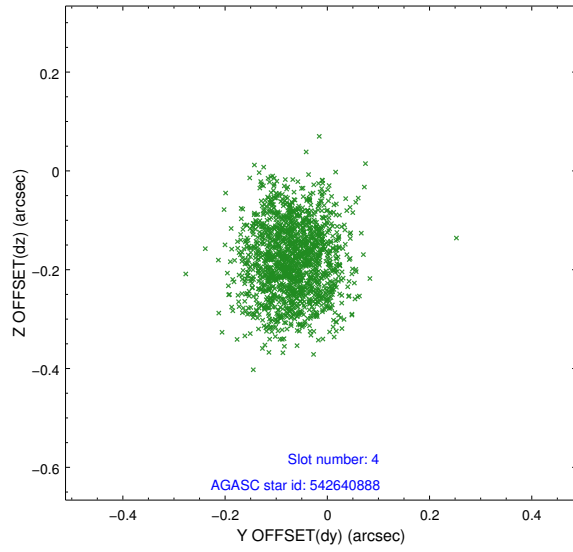


## 2.4 Star Slots

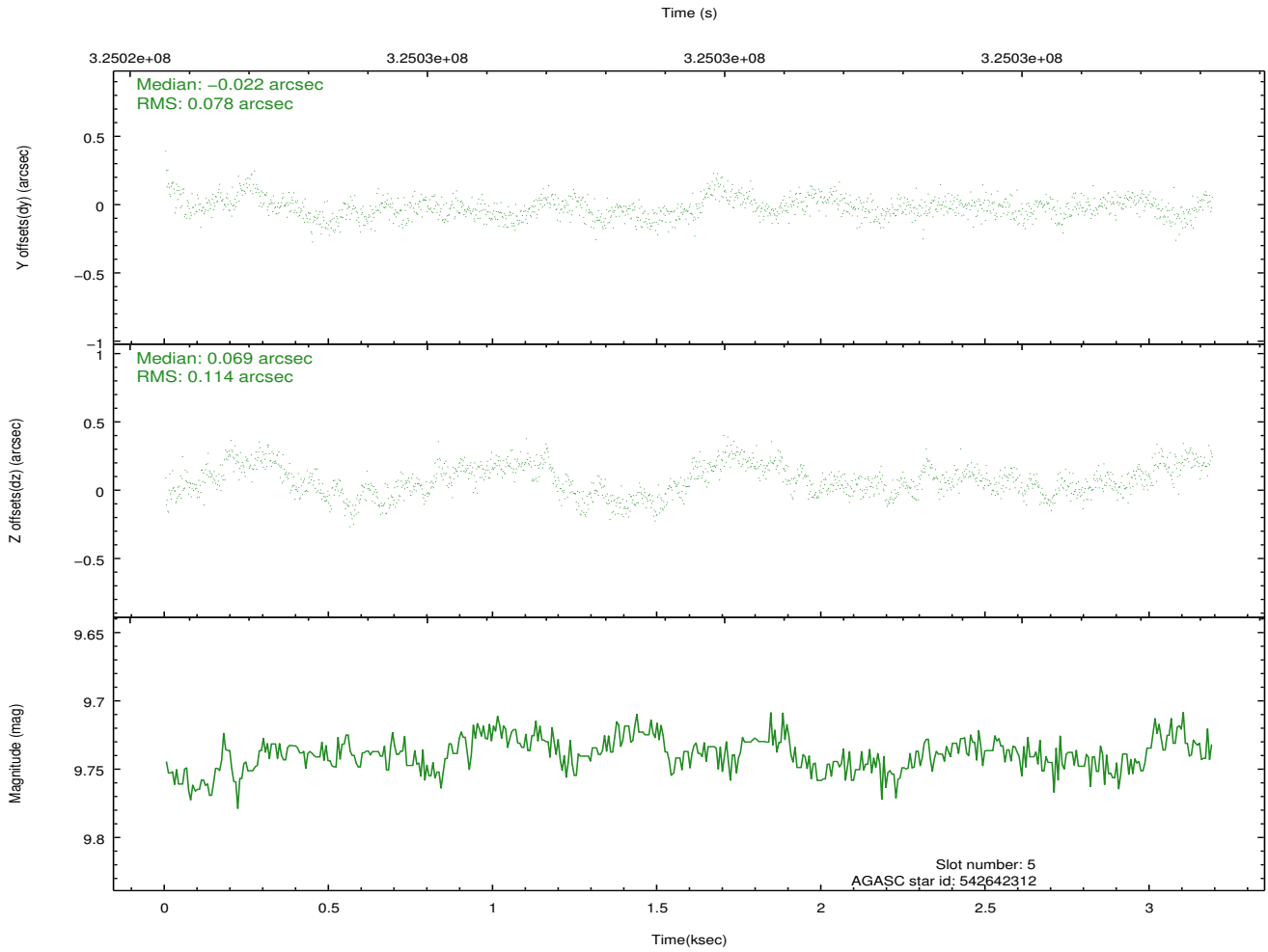
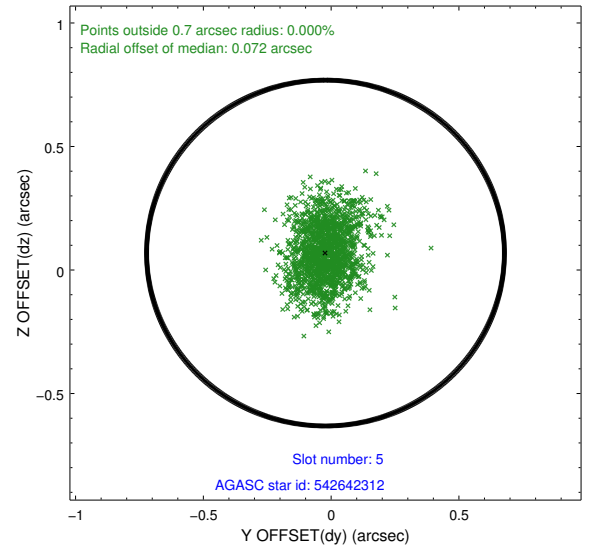
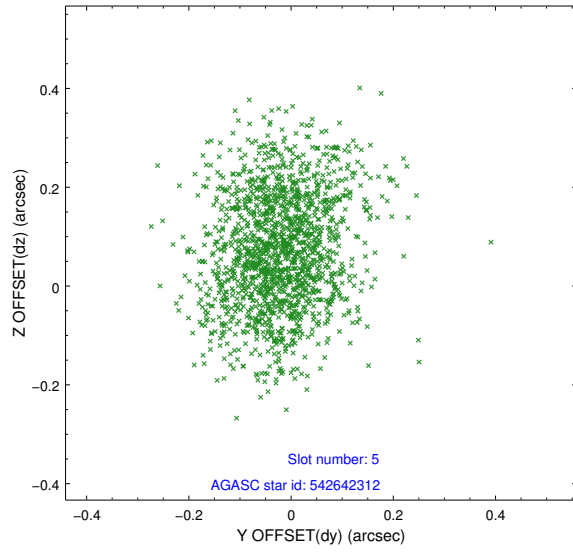
### 2.4.1 Slot 3



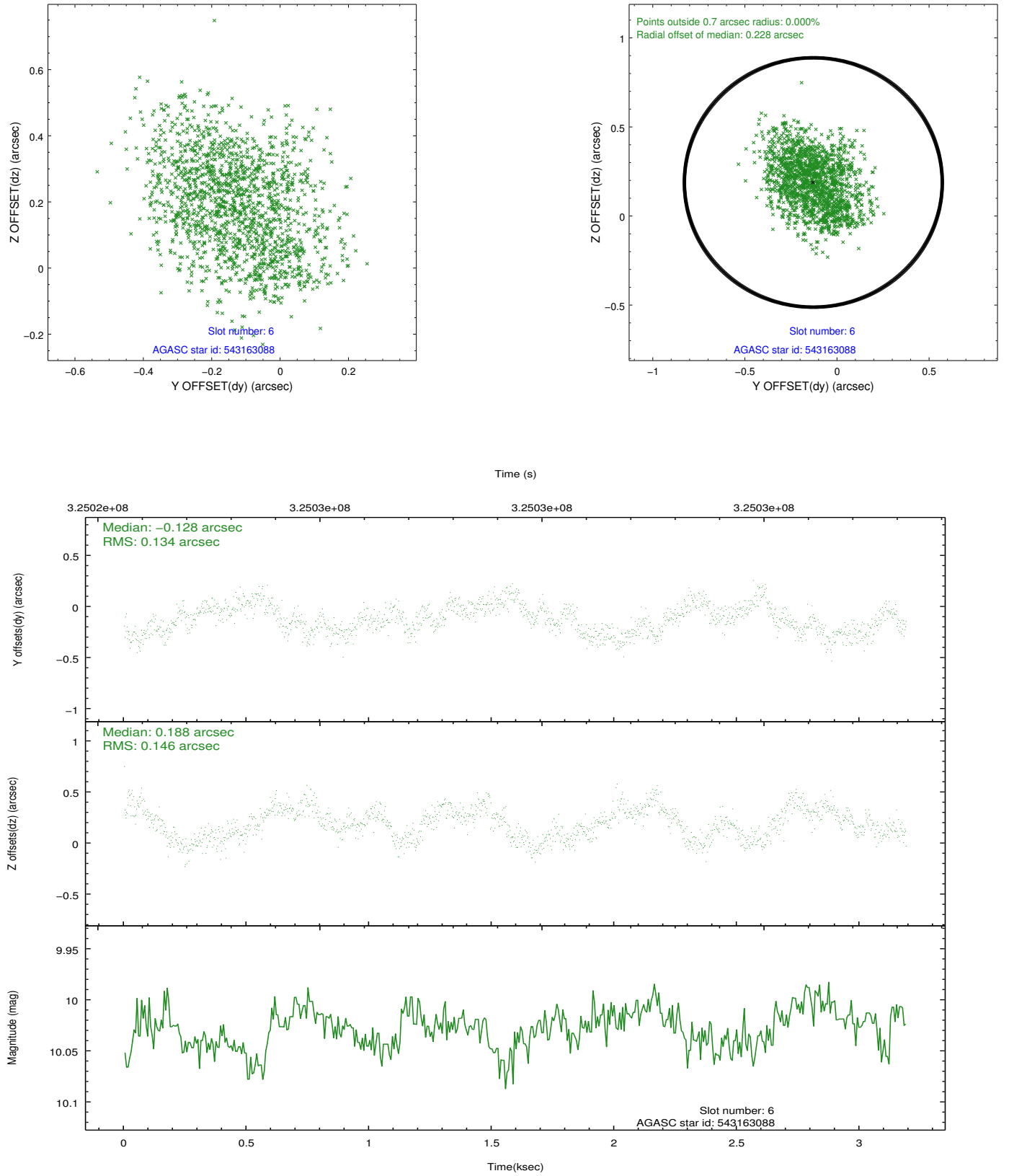
## 2.4.2 Slot 4



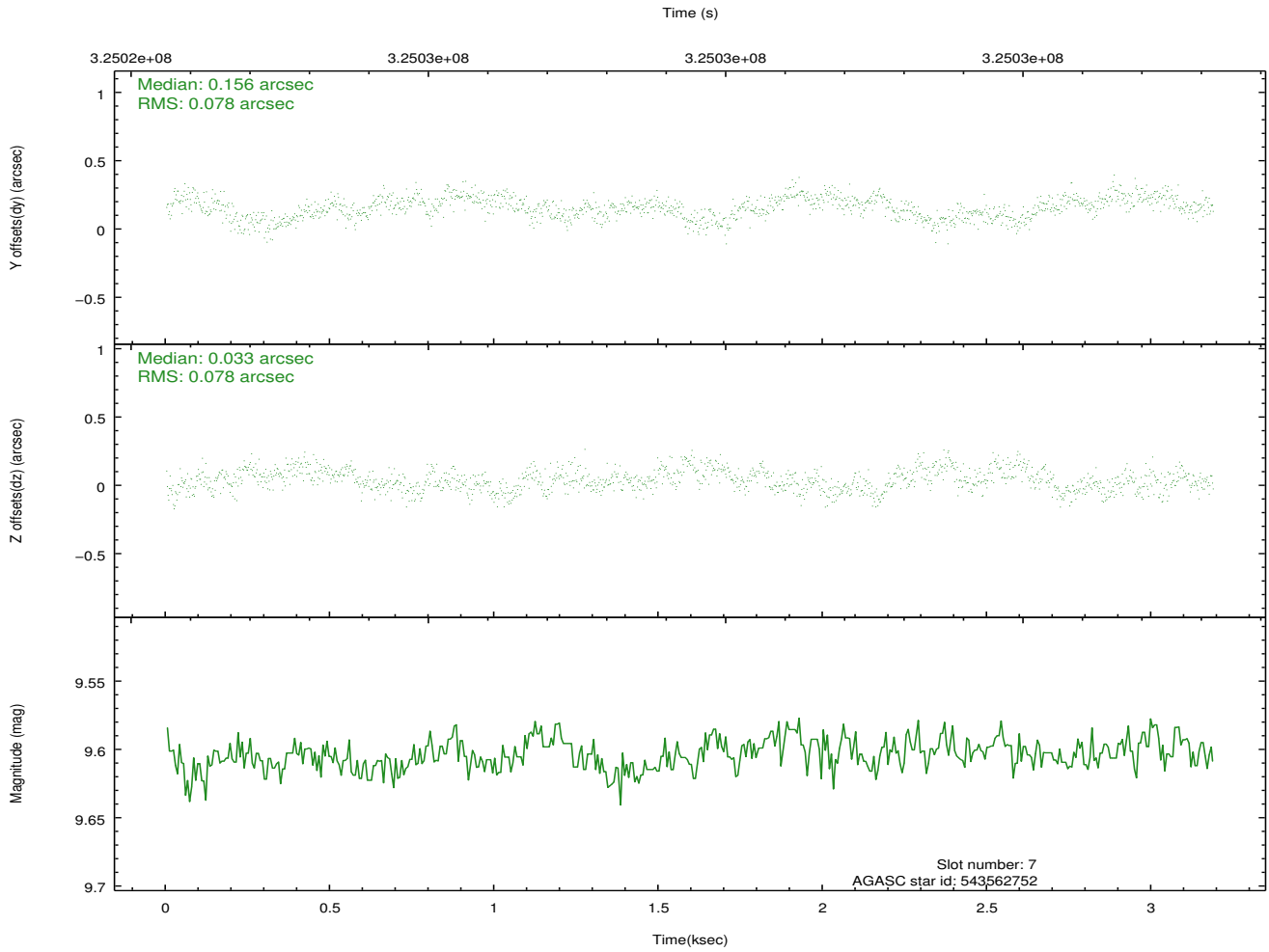
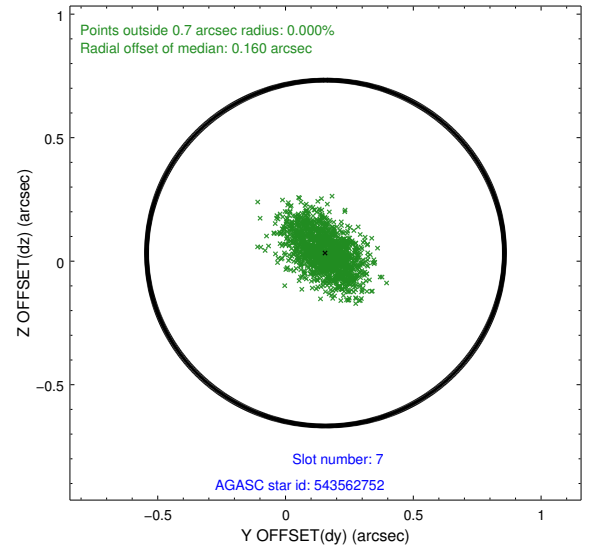
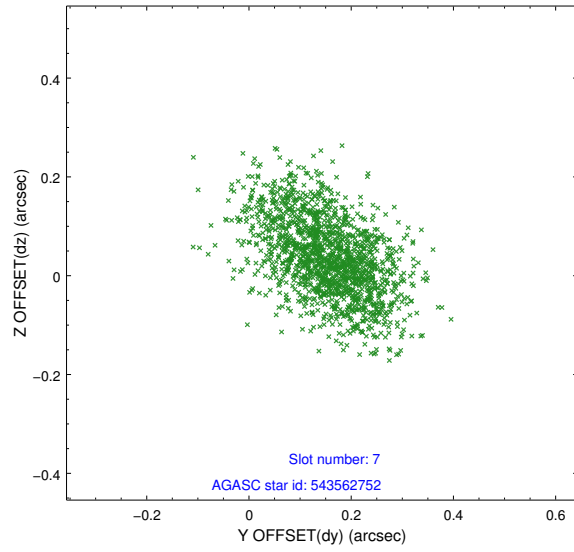
### 2.4.3 Slot 5



## 2.4.4 Slot 6

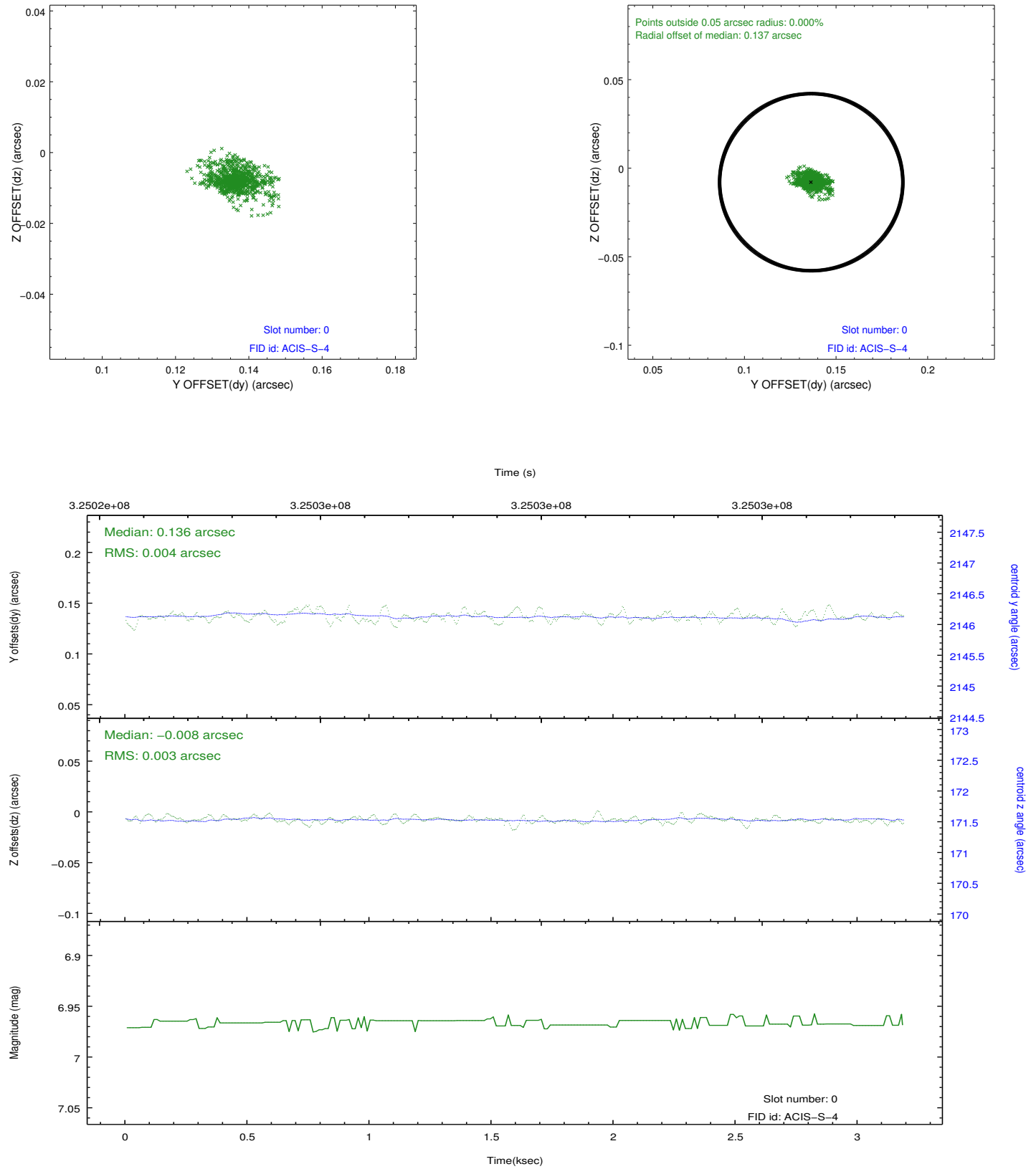


## 2.4.5 Slot 7

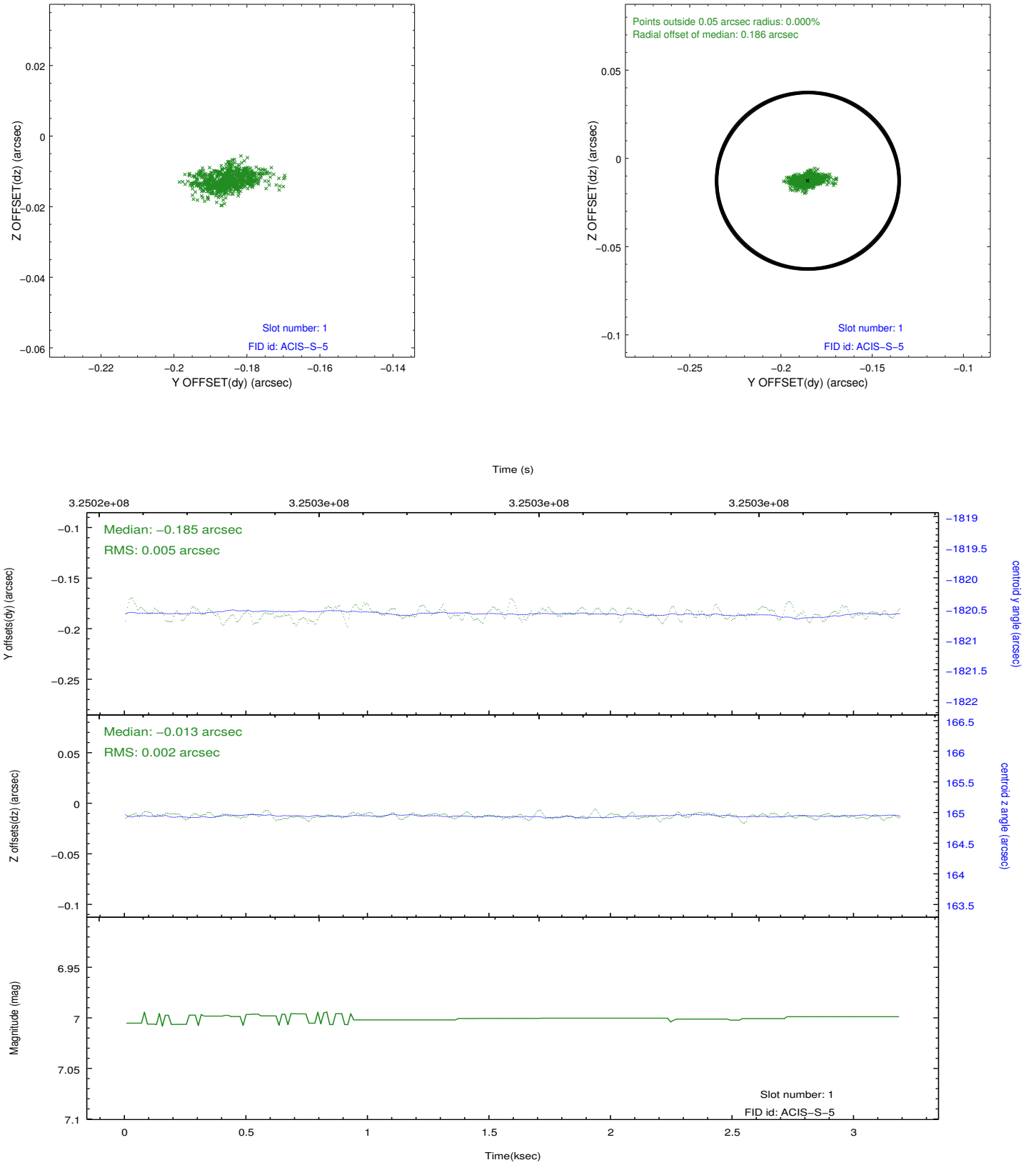


## 2.5 FID Slots

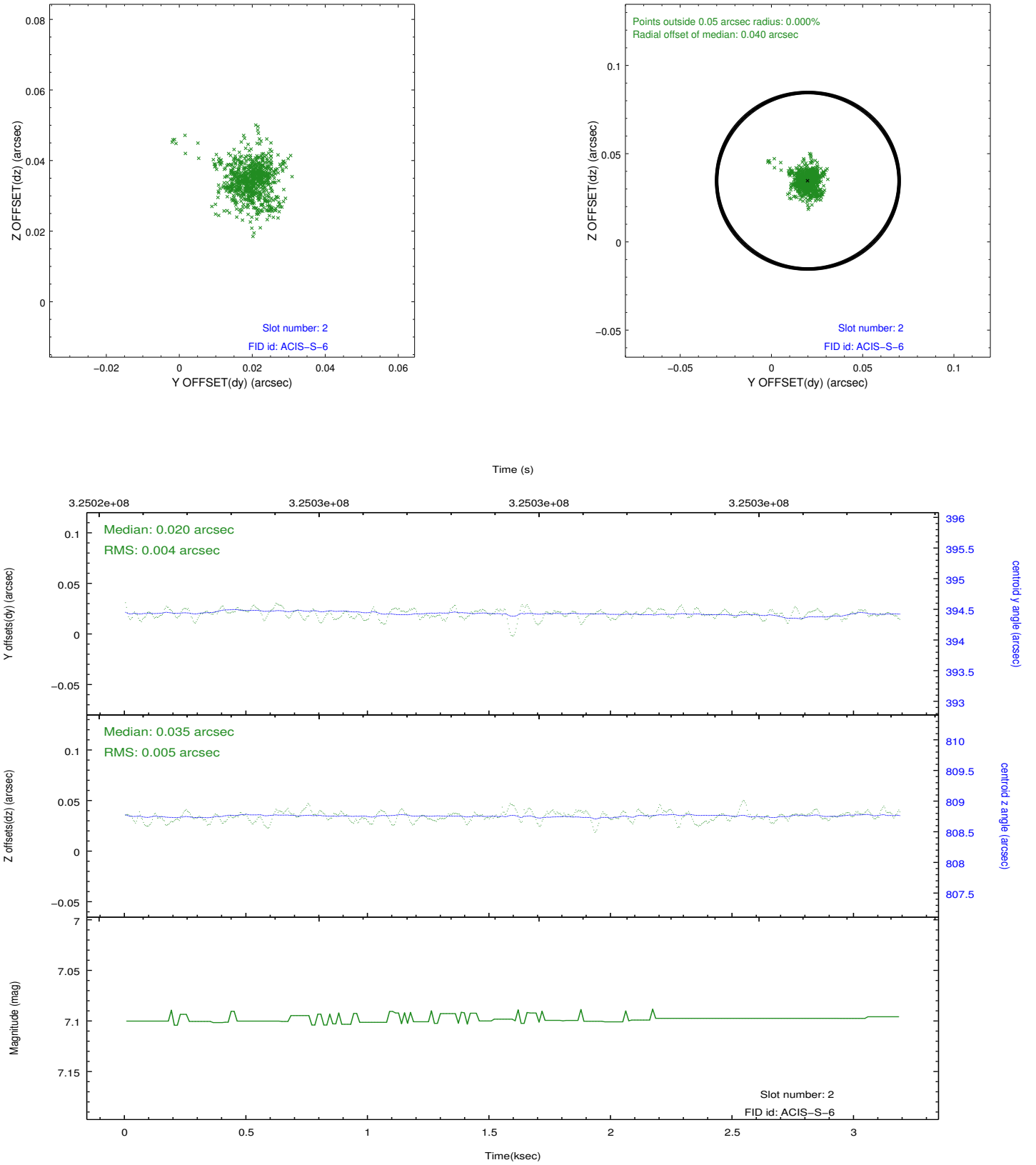
### 2.5.1 Slot 0



## 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)	2012.05.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.18409997

### A.2 Comments

Coordinated with HST and Spitzer.