

# V&V Reference Report

## L2 ASCDS Version : 10.2.4

Observation 16156 - L2 Version 1  
Chandra X-Ray Center

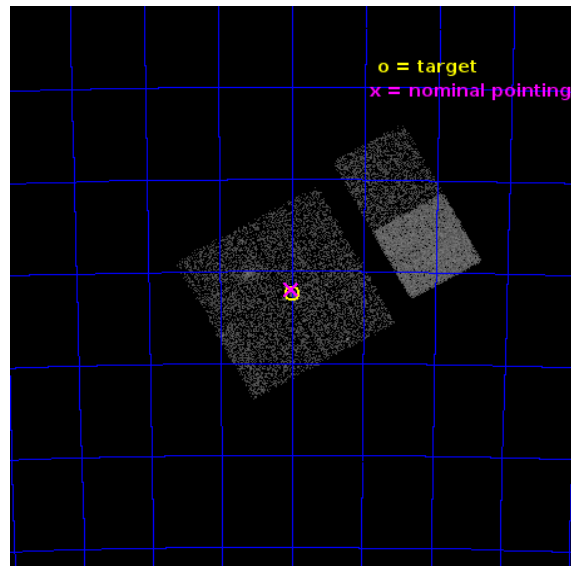
L2 Processing Date : Oct 8 2014

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Bias . . . . .	3
2.1.3	Parameters . . . . .	4
2.1.4	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Aspect . . . . .	6
2.4	Star Slots . . . . .	9
2.4.1	Slot 3 . . . . .	9
2.4.2	Slot 4 . . . . .	10
2.4.3	Slot 5 . . . . .	11
2.4.4	Slot 6 . . . . .	12
2.4.5	Slot 7 . . . . .	13
2.5	FID Slots . . . . .	14
2.5.1	Slot 0 . . . . .	14
2.5.2	Slot 1 . . . . .	15
2.5.3	Slot 2 . . . . .	16
<b>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

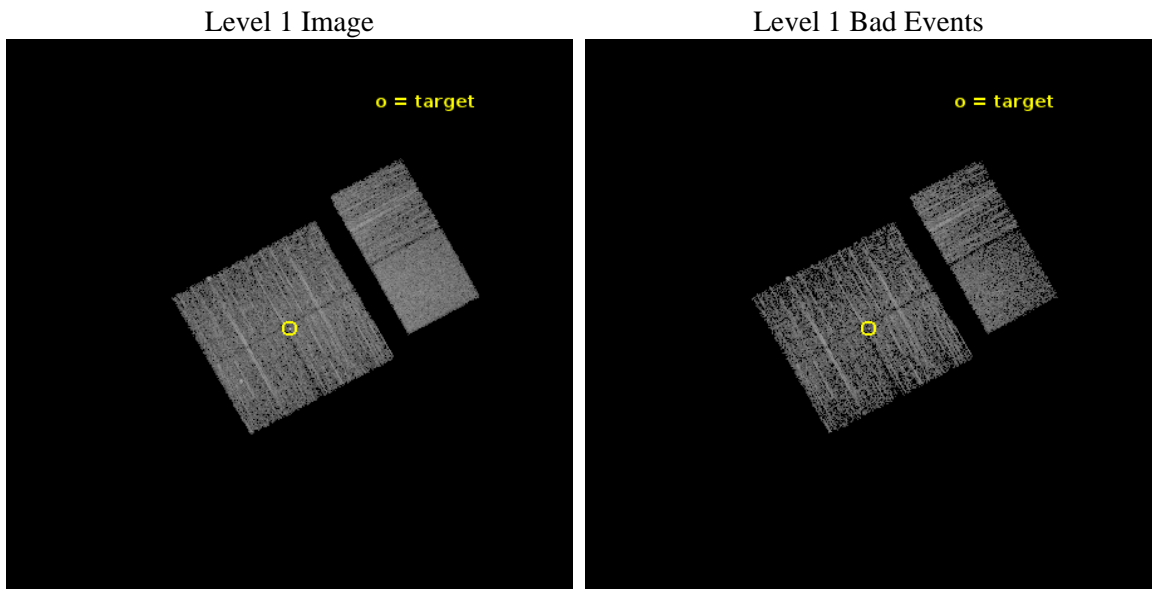
seq_num	901096	Sequence number
obs_id	16156	Observation id
title	The largest complete sample of Local AGN	Proposal title
observer	Prof. Marco Ajello	Principal investigator
object	SWIFT J0455.8-753	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	73.995417	Observer's specified target RA [deg]
dec_targ	-75.541111	Observer's specified target Dec [deg]
ra_nom	74.002236466139	Nominal RA [deg]
dec_nom	-75.533112488028	Nominal Dec [deg]
roll_nom	61.014759429342	Nominal Roll [deg]
revision	1	Processing version of data
ontime	4969.5999815464	Sum of GTIs [s]
livetime	4906.6719142462	Livetime [s]
ontime0	4969.5999815464	Sum of GTIs [s]
ontime1	4969.5999815464	Sum of GTIs [s]
ontime2	4969.5999815464	Sum of GTIs [s]
ontime3	4969.5999815464	Sum of GTIs [s]
ontime6	4969.5999815464	Sum of GTIs [s]
ontime7	4969.5999815464	Sum of GTIs [s]
l2events	27393	Number of level 2 events



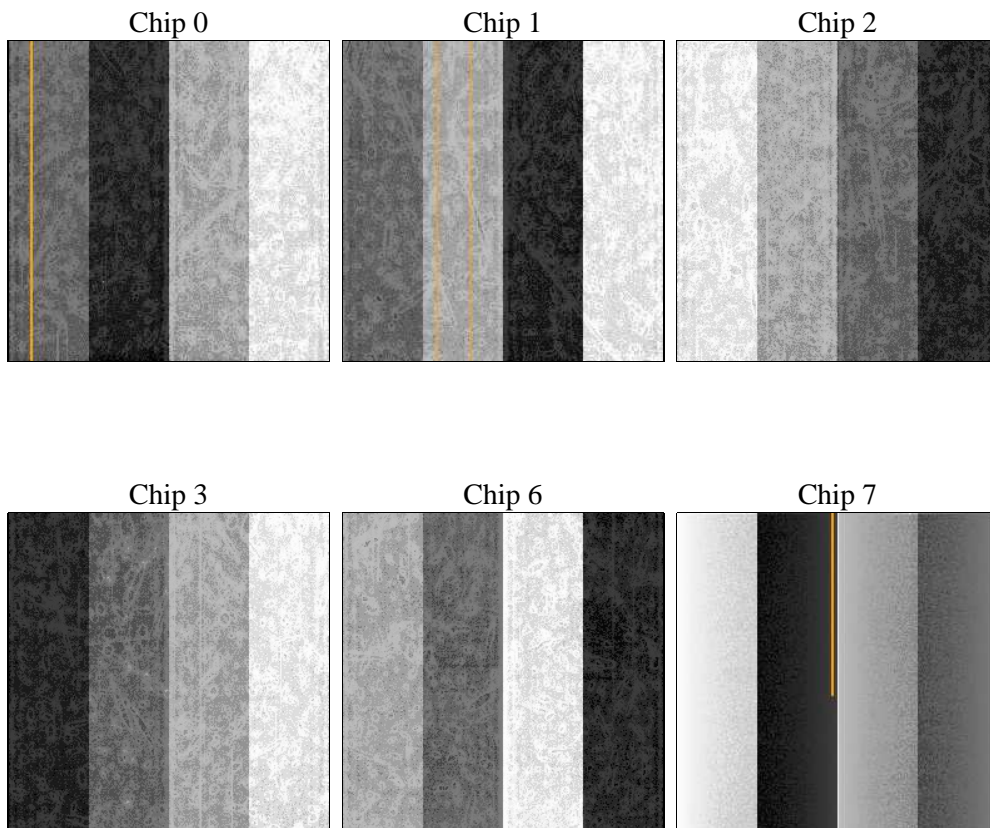
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.2.4	Processing system revision	ontime	4969.5999815464	Sum of GTIs [s]
caldsver	4.6.3	&#160	ontime0	4969.5999815464	Sum of GTIs [s]
date	2014-10-08T04:03:21	Date and time of file creation	ontime1	4969.5999815464	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	4969.5999815464	Sum of GTIs [s]
			ontime3	4969.5999815464	Sum of GTIs [s]
			ontime6	4969.5999815464	Sum of GTIs [s]
			ontime7	4969.5999815464	Sum of GTIs [s]
			l1events	151316	Number of level 1 events

### 2.1.4 Events

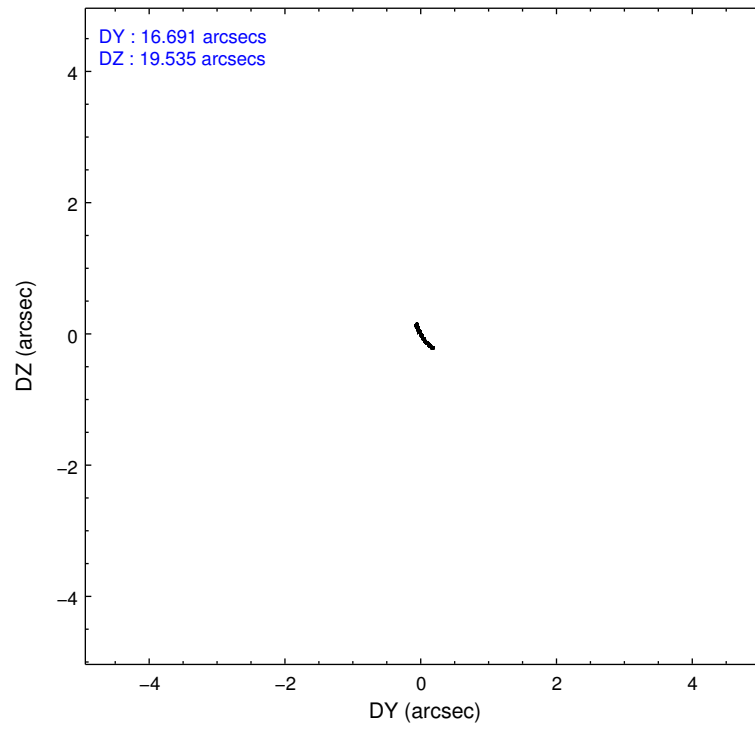
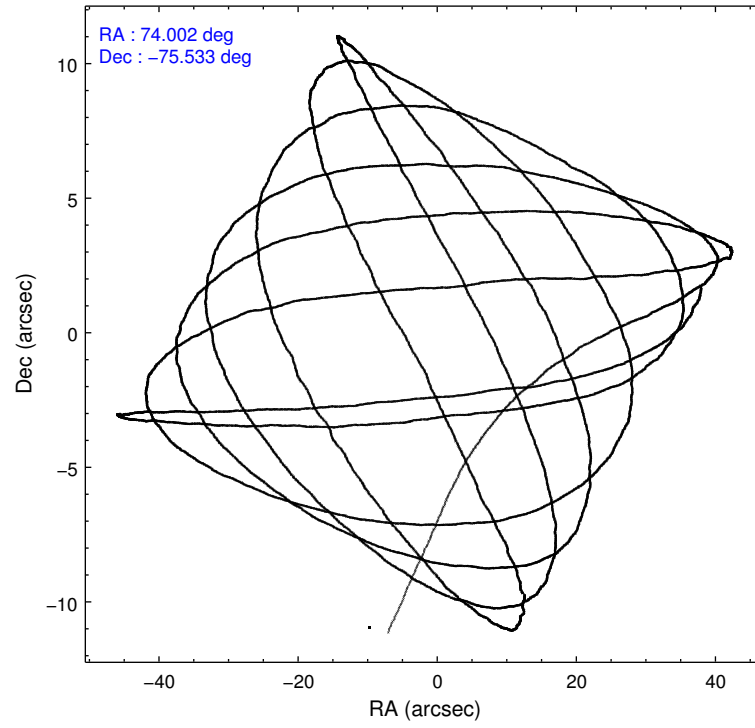
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	21348	22144	23165	26096	25399	33164	grade 0 events	1194	1312	941	1585	996	1212
rejected events	18234	18783	20444	22345	22383	18947		5%	5%	4%	6%	3%	3%
rejected %	85%	84%	88%	85%	88%	57%	grade 1 events	8	14	10	85	18	44
								0%	0%	0%	0%	0%	0%
							grade 2 events	714	789	673	786	718	2946
								3%	3%	2%	3%	2%	8%
							grade 3 events	315	275	279	357	304	1173
								1%	1%	1%	1%	1%	3%
							grade 4 events	309	322	277	343	314	1158
								1%	1%	1%	1%	1%	3%
							grade 5 events	1276	1189	1043	1379	1327	3409
								5%	5%	4%	5%	5%	10%
							grade 6 events	583	667	551	682	687	7738
								2%	3%	2%	2%	2%	23%
							grade 7 events	16949	17576	19391	20879	21035	15484
								79%	79%	83%	80%	82%	46%

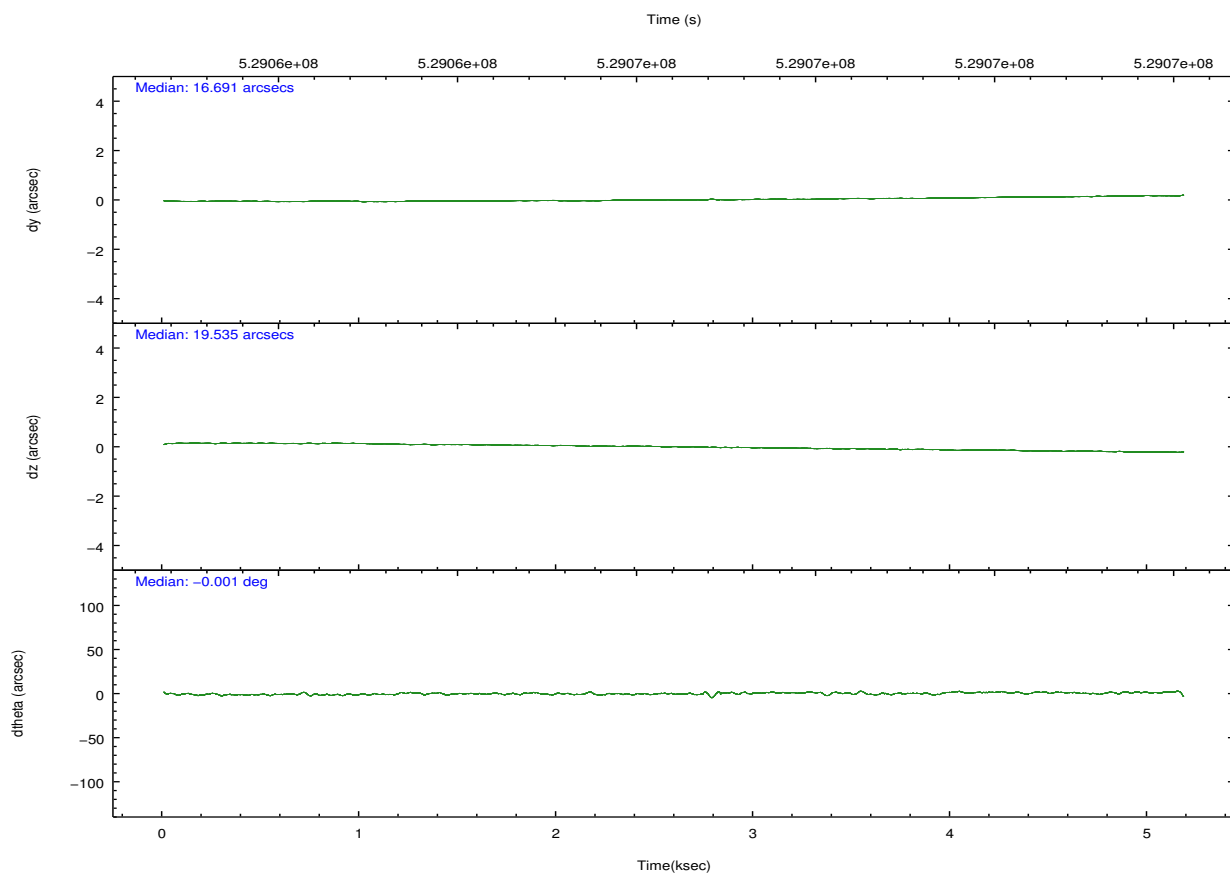
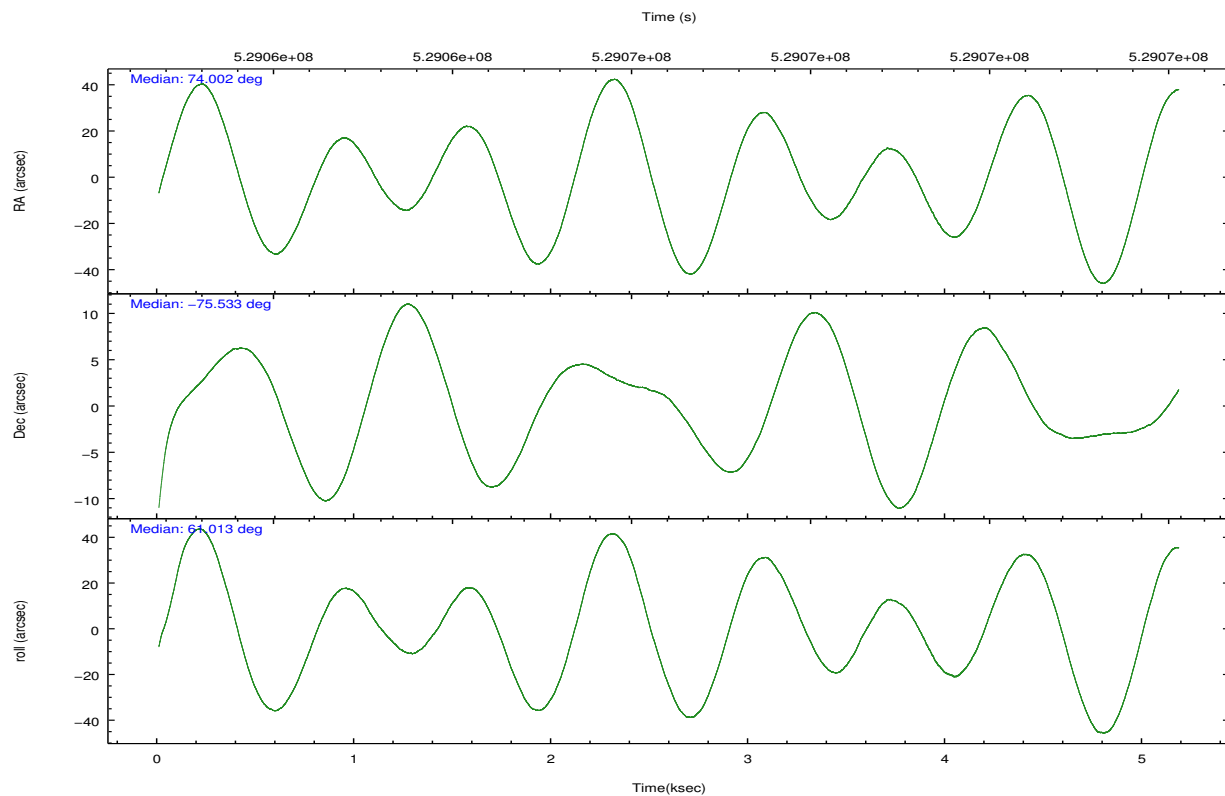


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	74.004378	74.00223646613853	CCD I2 on	Y	Y
[deg] Pointing Dec	-75.560662	-75.53311248802771	CCD I3 on	Y	Y
[deg] Pointing Roll	60.808156	61.01475942934199	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	O2	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	529063806.184000	529062673.86532	CCD S5 on	N	N
Observation start date	2014-10-07T10:08:59	2014-10-07T09:51:13	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	529068806.184000	529069484.4782	On-chip summing requested	N	N
Observation end date	2014-10-07T11:32:19	2014-10-07T11:44:44	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



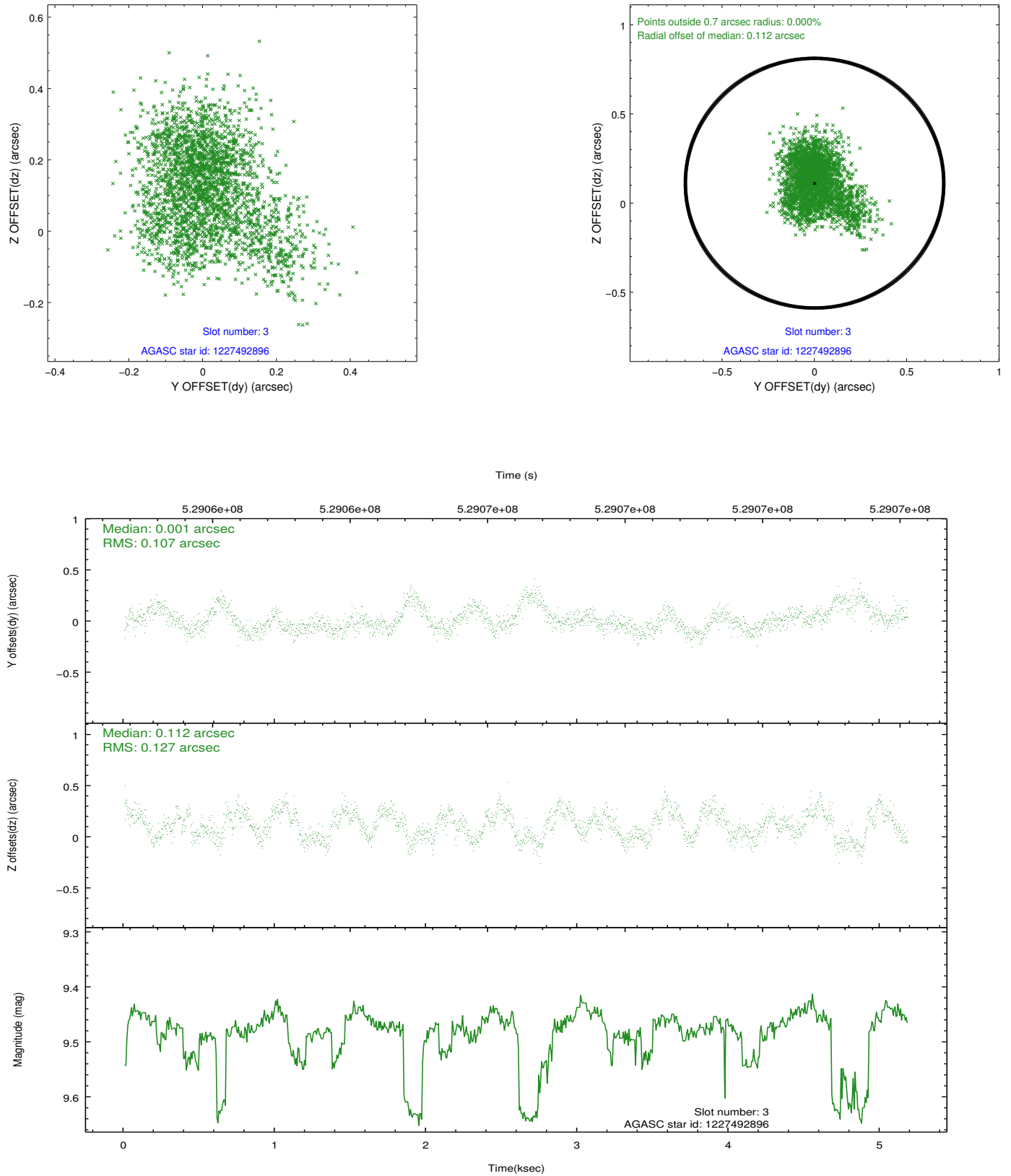


### Slot Statistics

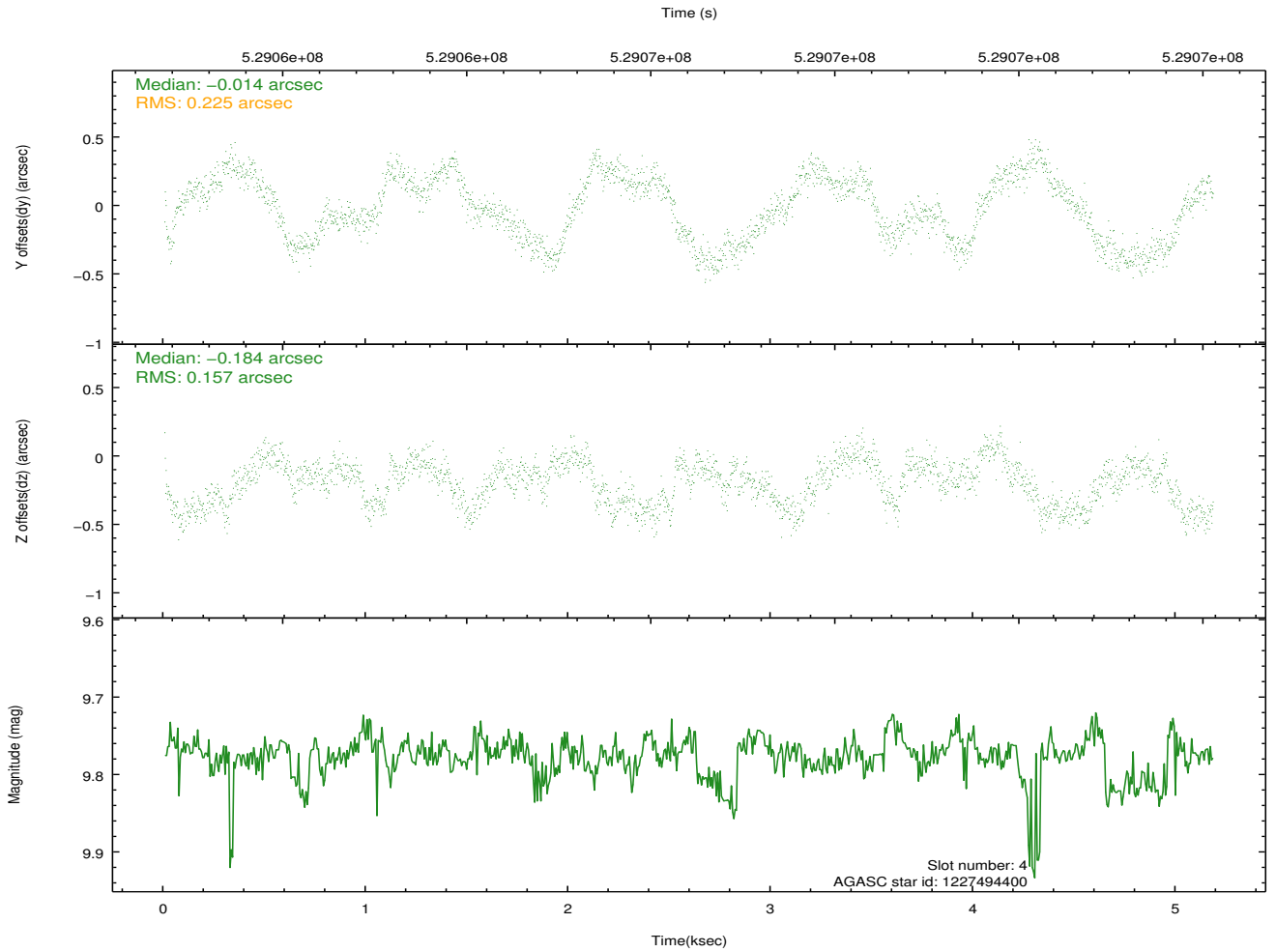
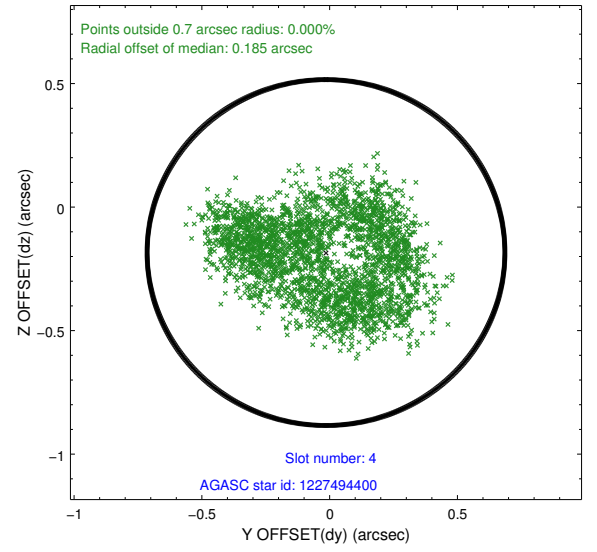
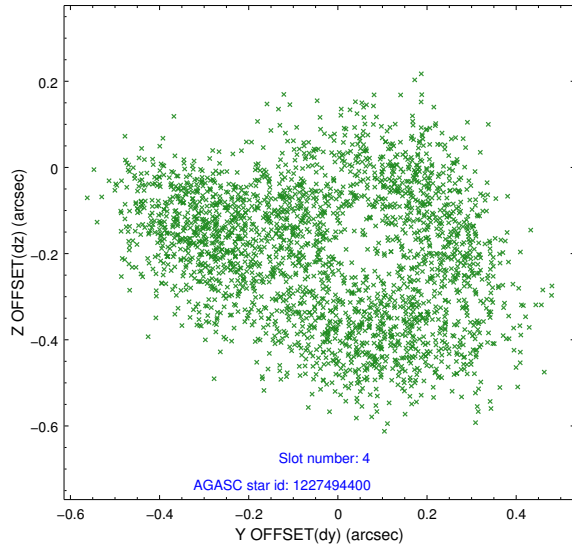
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.06	1263	-0.065	0.049	0.008	0.015	0.000000	0.000000	922.62	-843.20
1	FID	ACIS-I-2	6.98	1262	-0.121	-0.071	0.007	0.011	0.000000	0.000000	-770.88	-850.33
2	FID	ACIS-I-4	6.99	1263	0.088	0.089	0.007	0.012	0.000000	0.000000	2142.15	1056.02
3	GUIDE	1227492896	9.48	2527	0.001	0.112	0.176	0.293	75.203537	-75.564975	502.22	-951.86
4	GUIDE	1227494400	9.77	2523	-0.014	-0.184	0.303	0.424	72.001946	-75.782083	-1584.90	1141.68
5	GUIDE	1227495112	9.14	2526	0.036	0.089	0.208	0.320	73.592638	-76.151427	-2030.94	-727.37
6	GUIDE	1227496792	9.34	2524	0.119	0.152	0.206	0.308	74.270803	-76.168073	-1797.82	-1266.86
7	GUIDE	1227497072	9.33	2524	-0.104	-0.191	0.213	0.301	73.283889	-75.017691	1375.37	1536.43

## 2.4 Star Slots

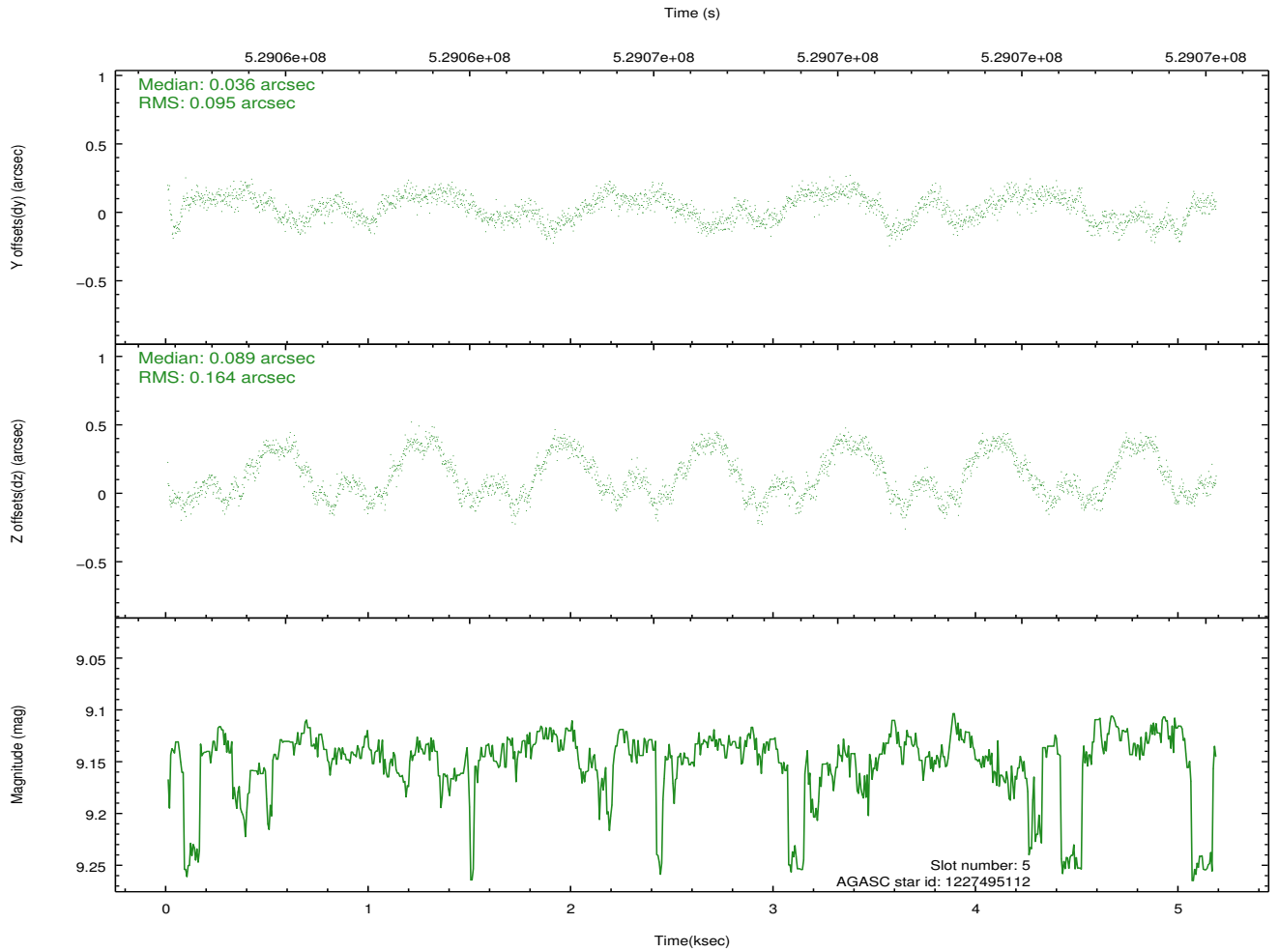
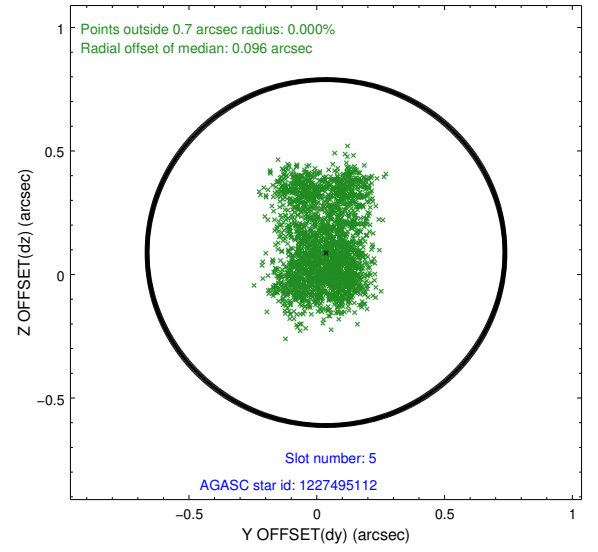
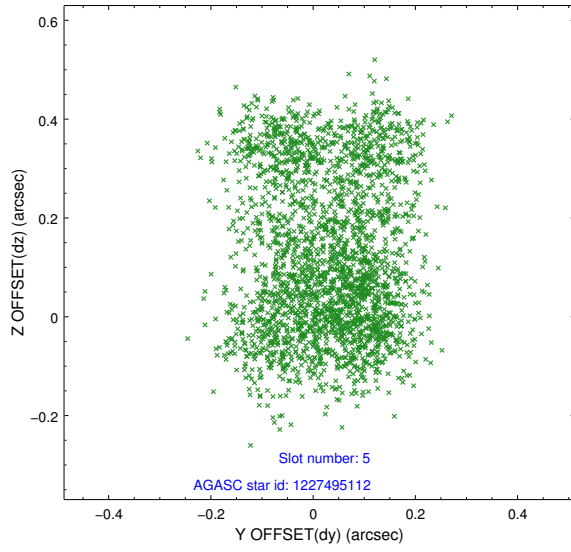
### 2.4.1 Slot 3



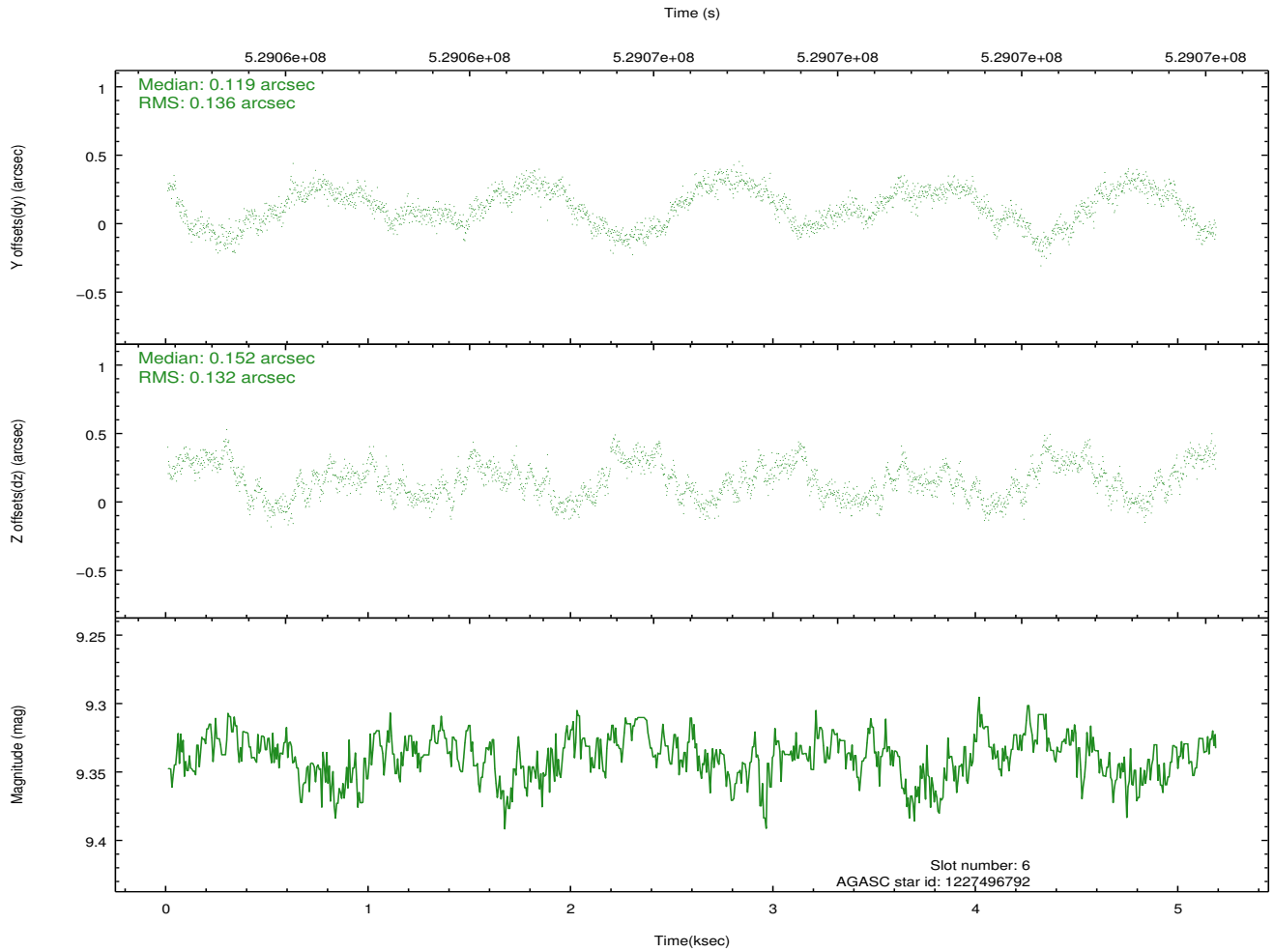
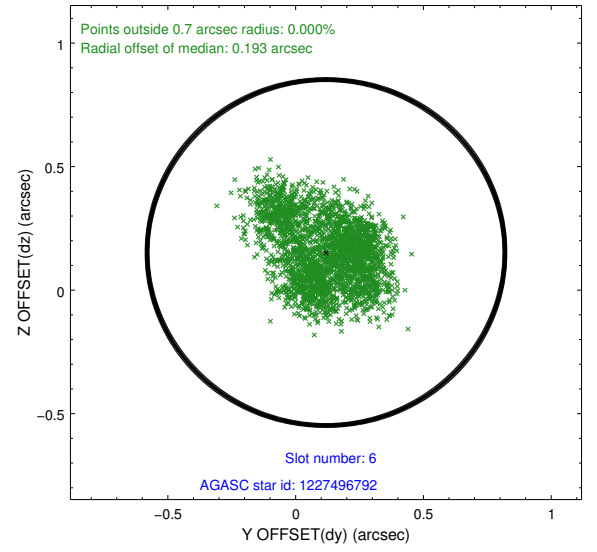
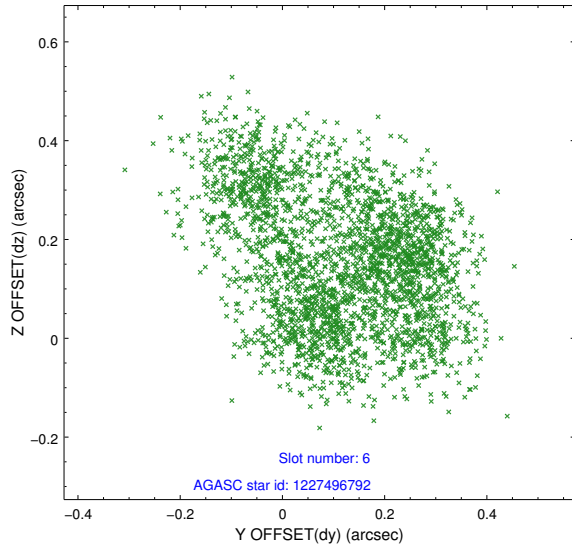
## 2.4.2 Slot 4



### 2.4.3 Slot 5

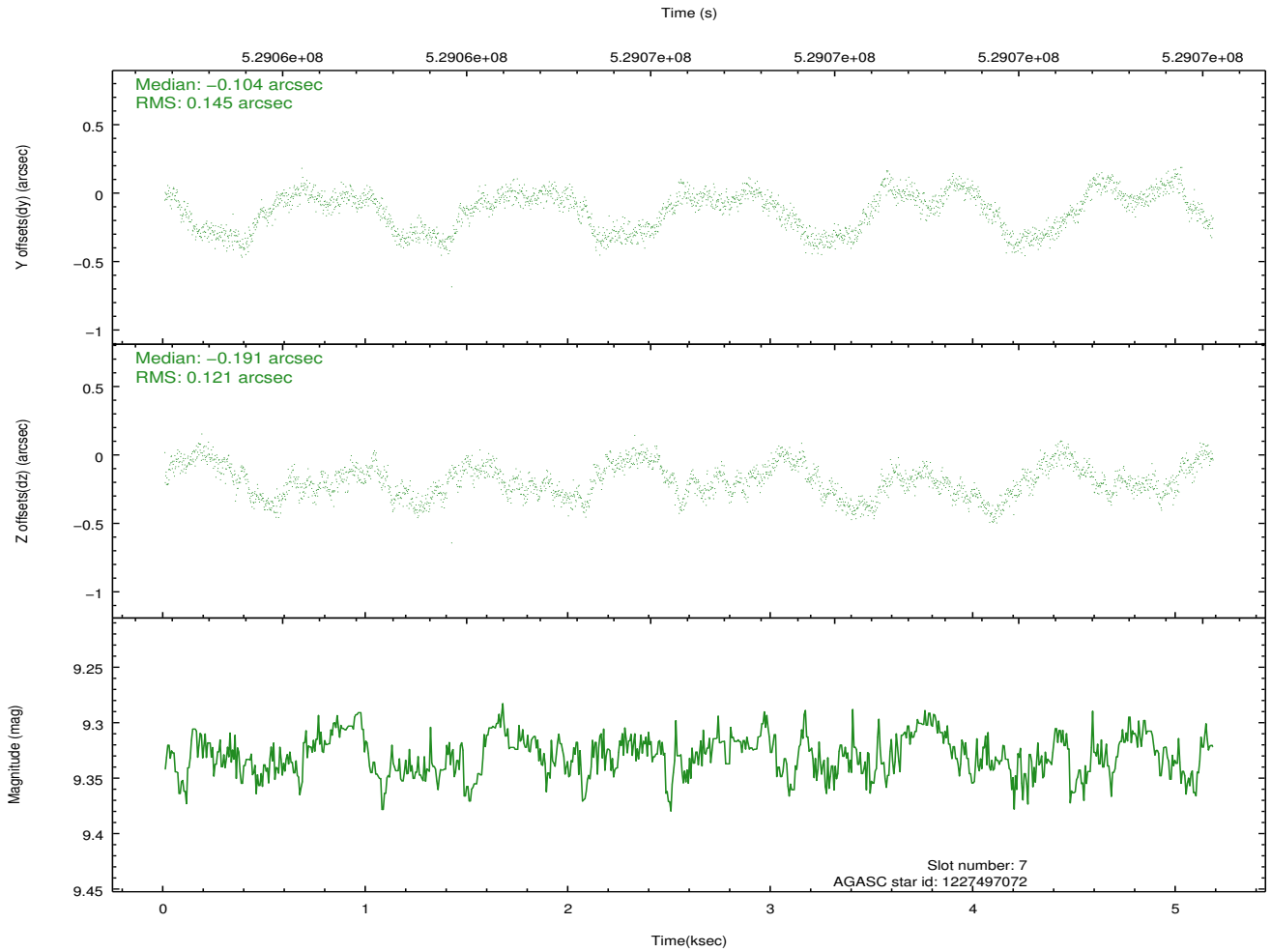
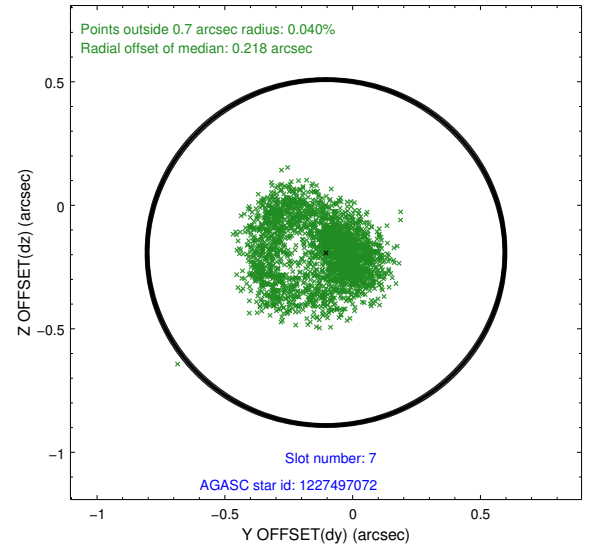
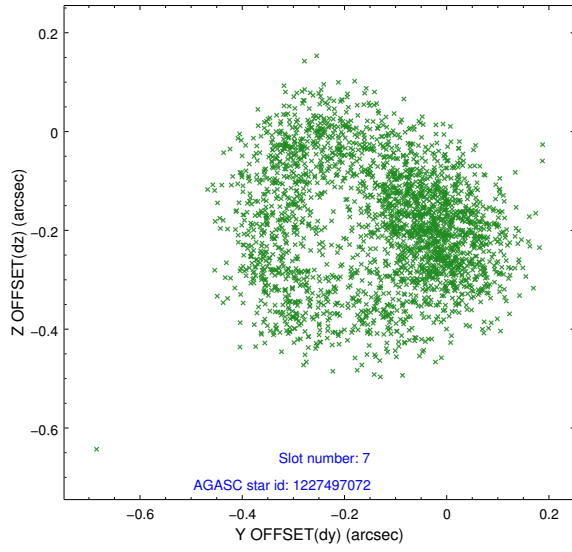


## 2.4.4 Slot 6



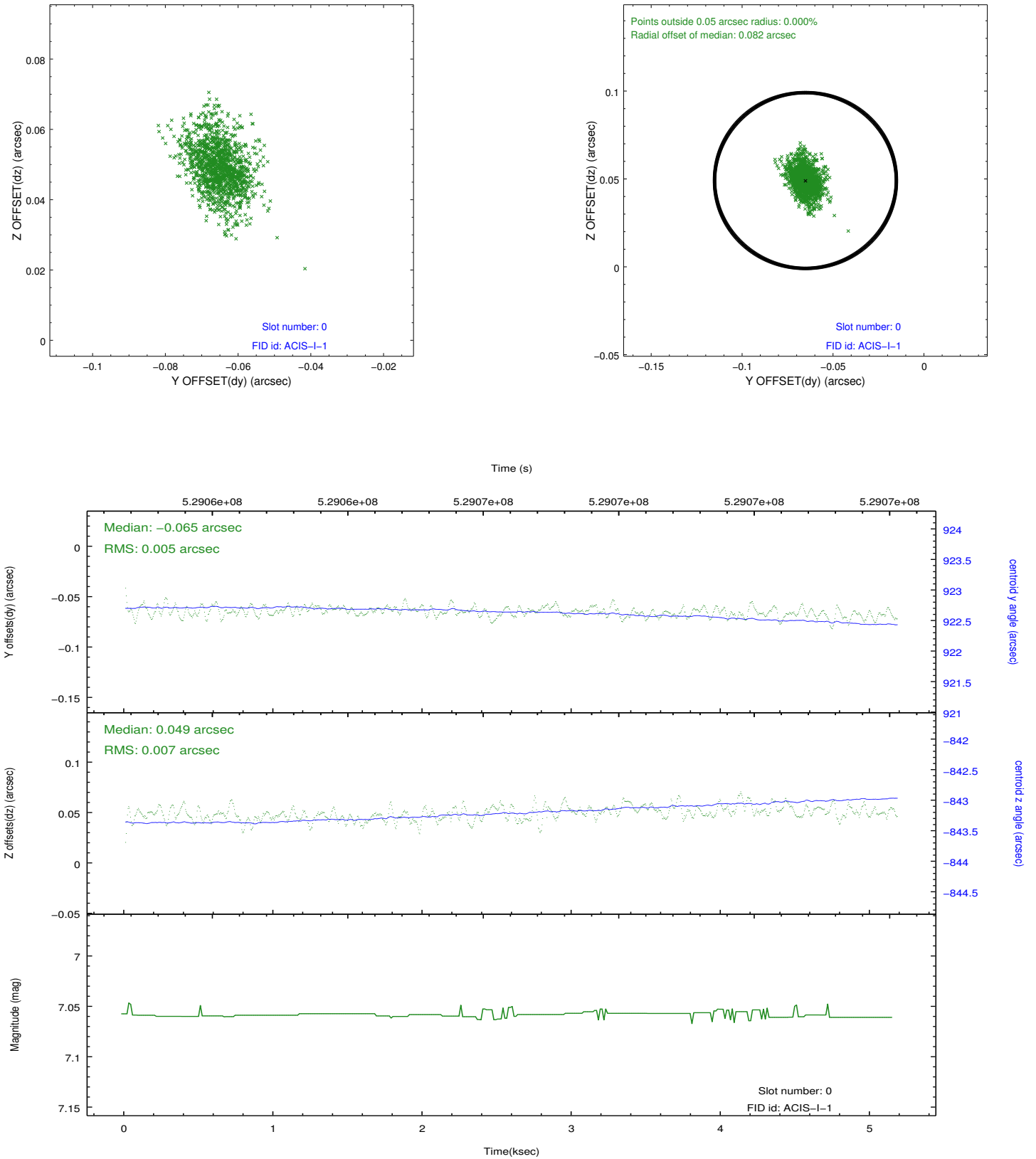


## 2.4.5 Slot 7

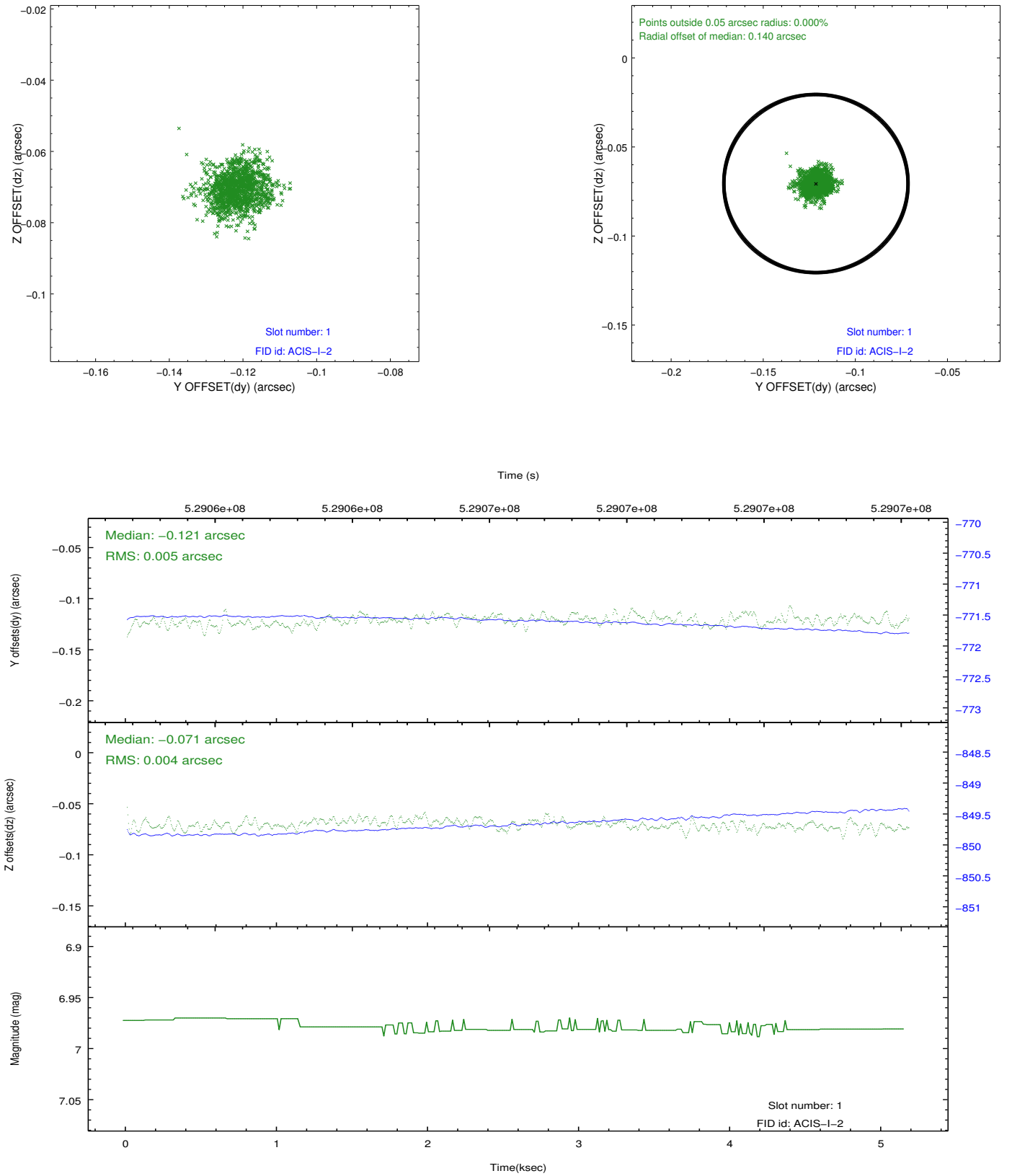


## 2.5 FID Slots

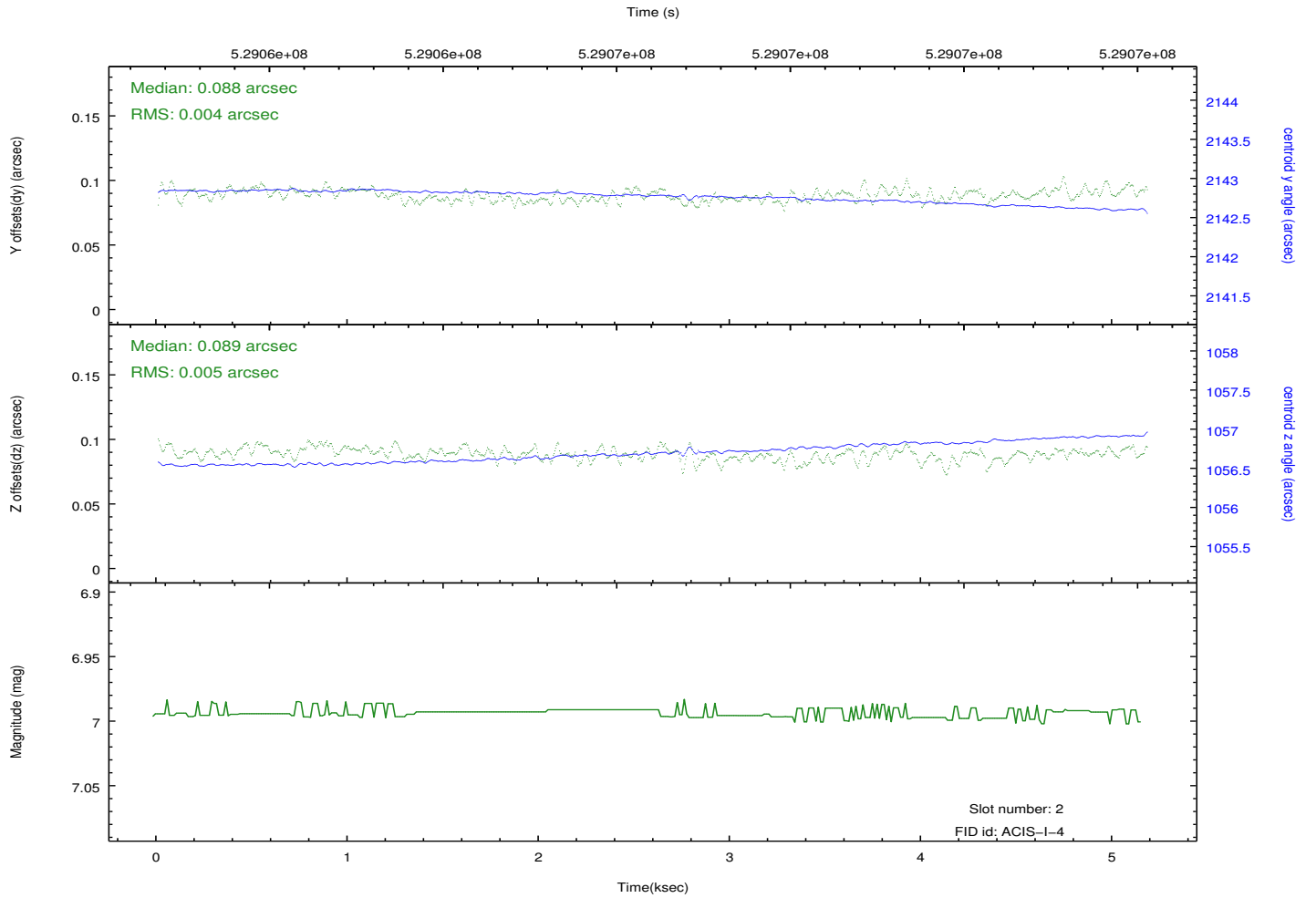
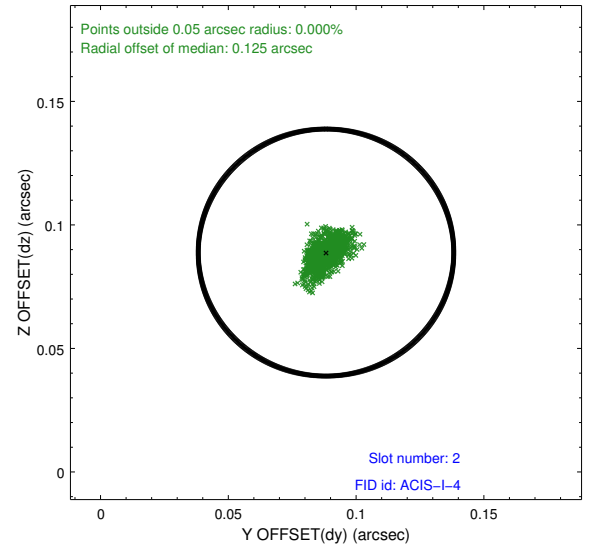
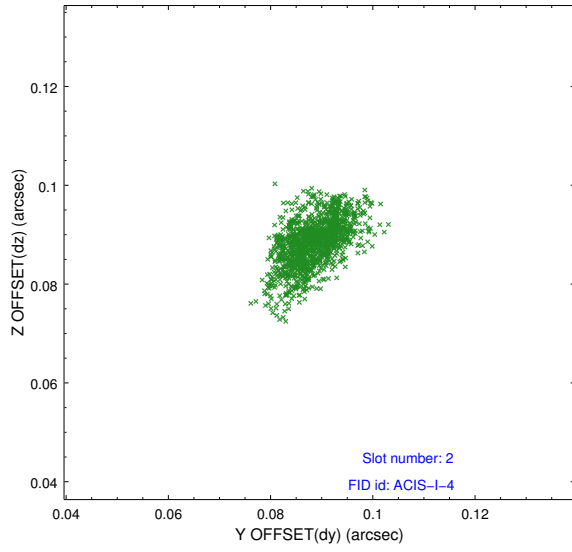
### 2.5.1 Slot 0



## 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)	2014.10.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.9695999815464

### **A.2 Comments**