

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9601 - L2 Version 2  
Chandra X-Ray Center

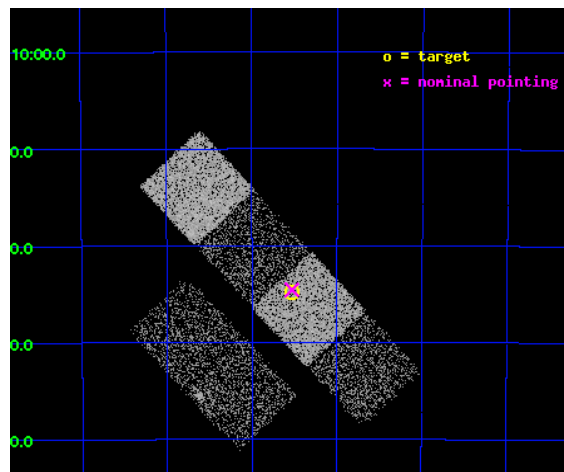
L2 Processing Date : May 12 2012

## 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

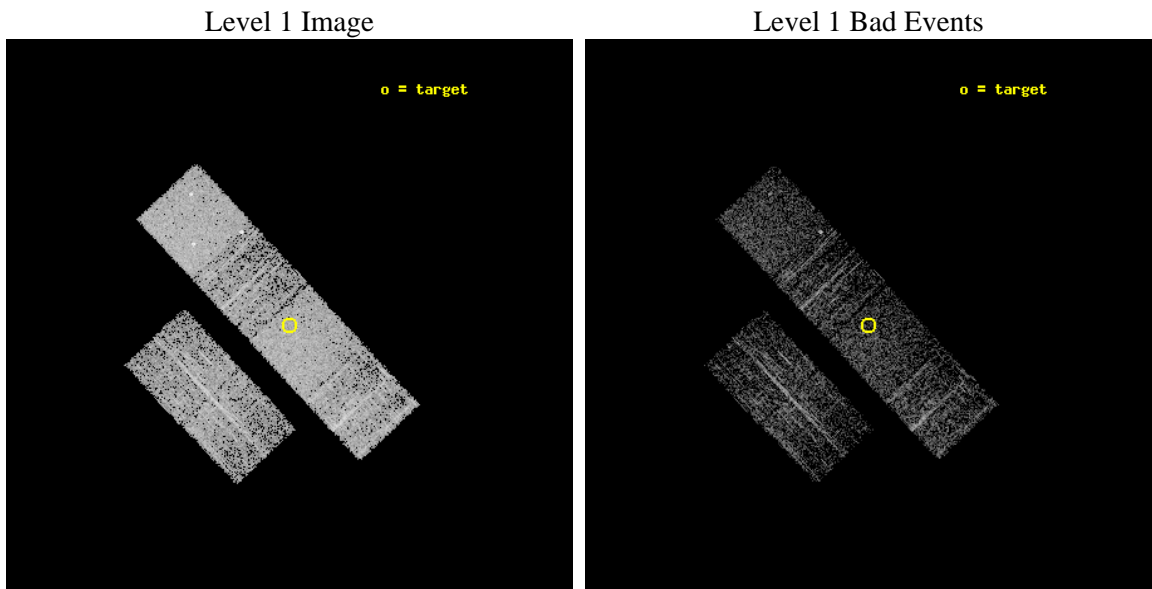
seq_num	900843	Sequence number
obs_id	9601	Observation id
title	GTO ChICAGO: Chandra Identification of Compact ASCA Galactic Objects	&#160
observer	Dr. Stephen Murray	Principal investigator
object	AX J155831-5334	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	239.630833	Observer's specified target RA [deg]
dec_targ	-53.581	Observer's specified target Dec [deg]
ra_nom	239.63240155856	Nominal RA [deg]
dec_nom	-53.576375068936	Nominal Dec [deg]
roll_nom	46.958304980474	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1448.8638193011	Sum of GTIs [s]
livetime	1430.5174332201	Livetime [s]
ontime2	1448.9048593044	Sum of GTIs [s]
ontime3	1448.7406992912	Sum of GTIs [s]
ontime5	1448.8227792978	Sum of GTIs [s]
ontime6	1448.7817392945	Sum of GTIs [s]
ontime7	1448.8638193011	Sum of GTIs [s]
ontime8	1448.6996592879	Sum of GTIs [s]
l2events	23617	Number of level 2 events



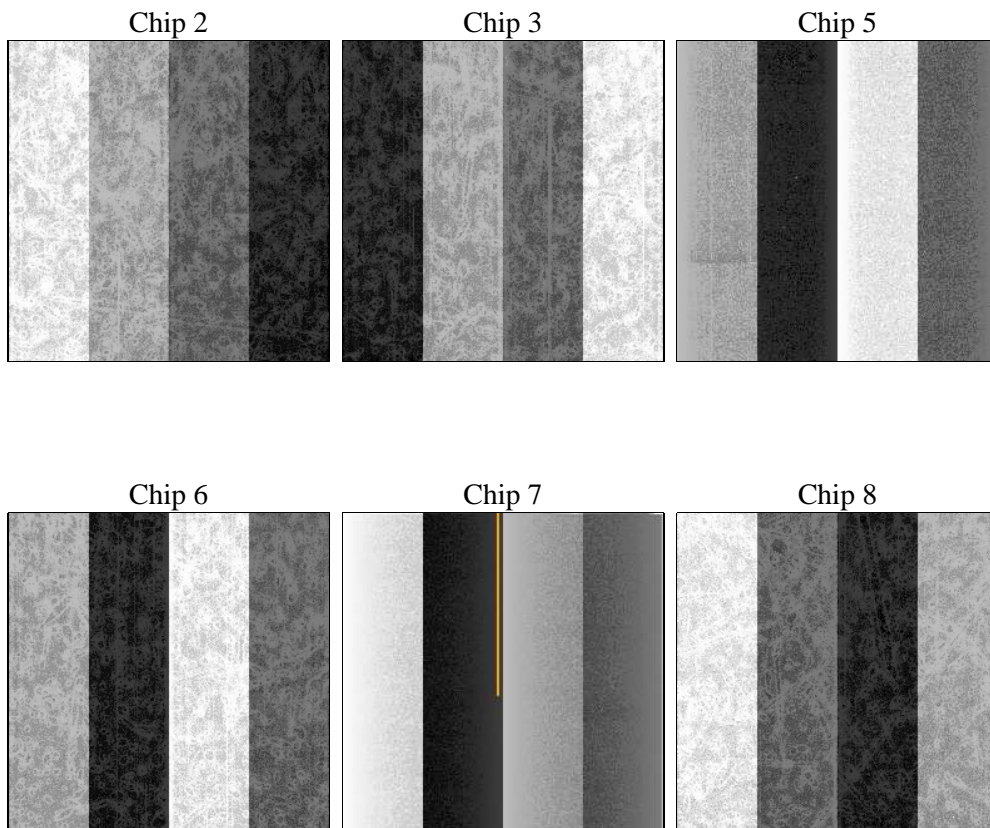
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	1500.763000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	1448.8638193011	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime2	1448.9048593044	Sum of GTIs [s]
date	2012-05-13T00:05:10	Date and time of file creation	ontime3	1448.7406992912	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	1448.8227792978	Sum of GTIs [s]
			ontime6	1448.7817392945	Sum of GTIs [s]
			ontime7	1448.8638193011	Sum of GTIs [s]
			ontime8	1448.6996592879	Sum of GTIs [s]
			l1events	101583	Number of level 1 events

### 2.1.4 Events

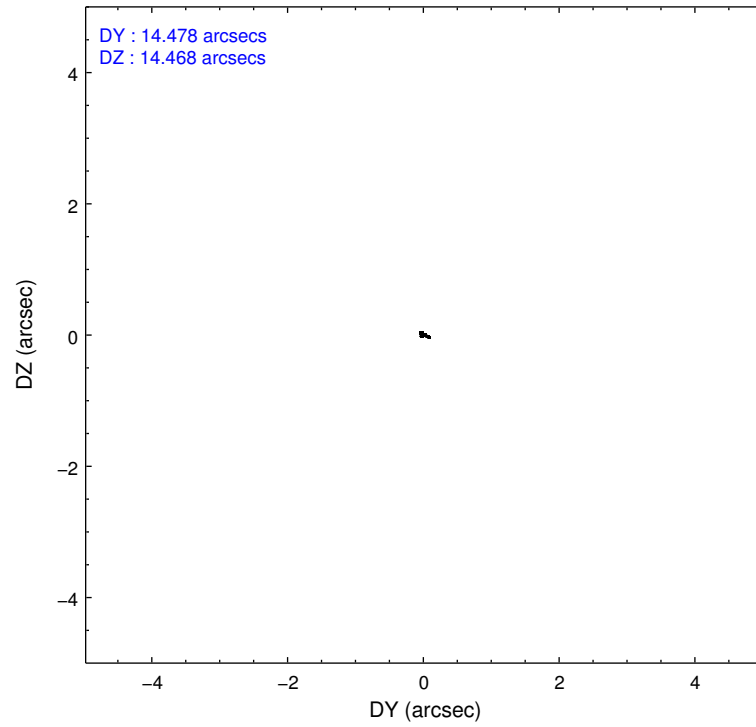
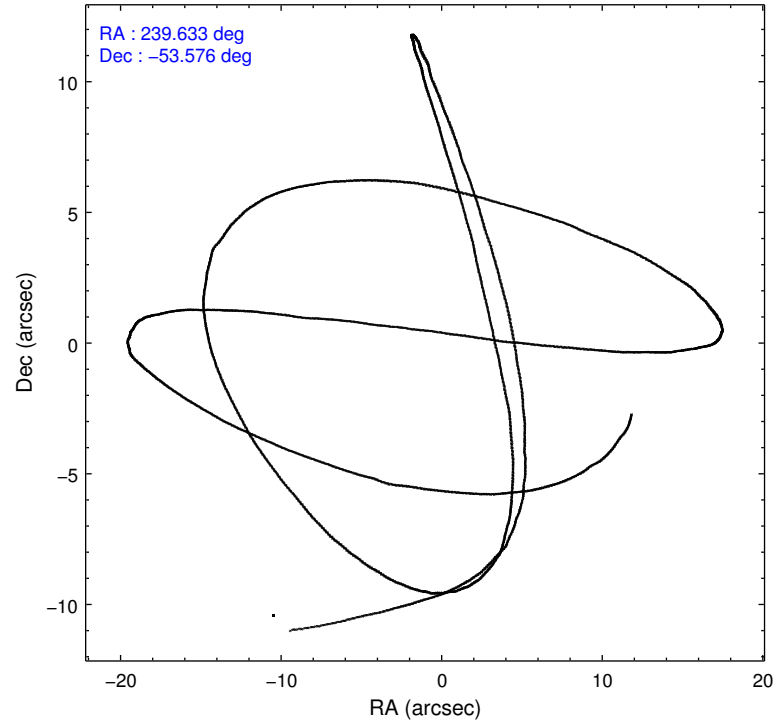
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	14242	13769	22438	13789	19534	17811
rejected events	12545	11998	12147	12074	11359	13709
rejected %	88%	87%	54%	87%	58%	76%

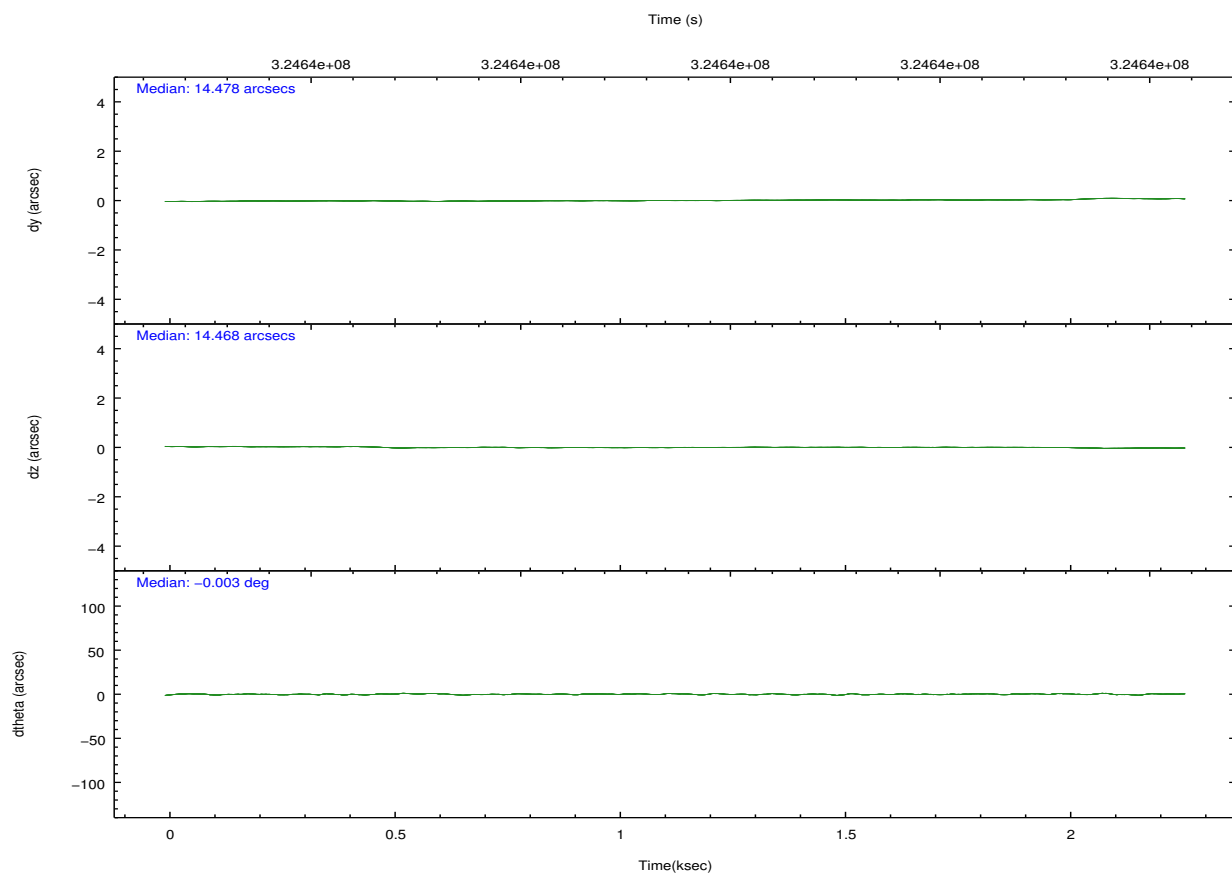
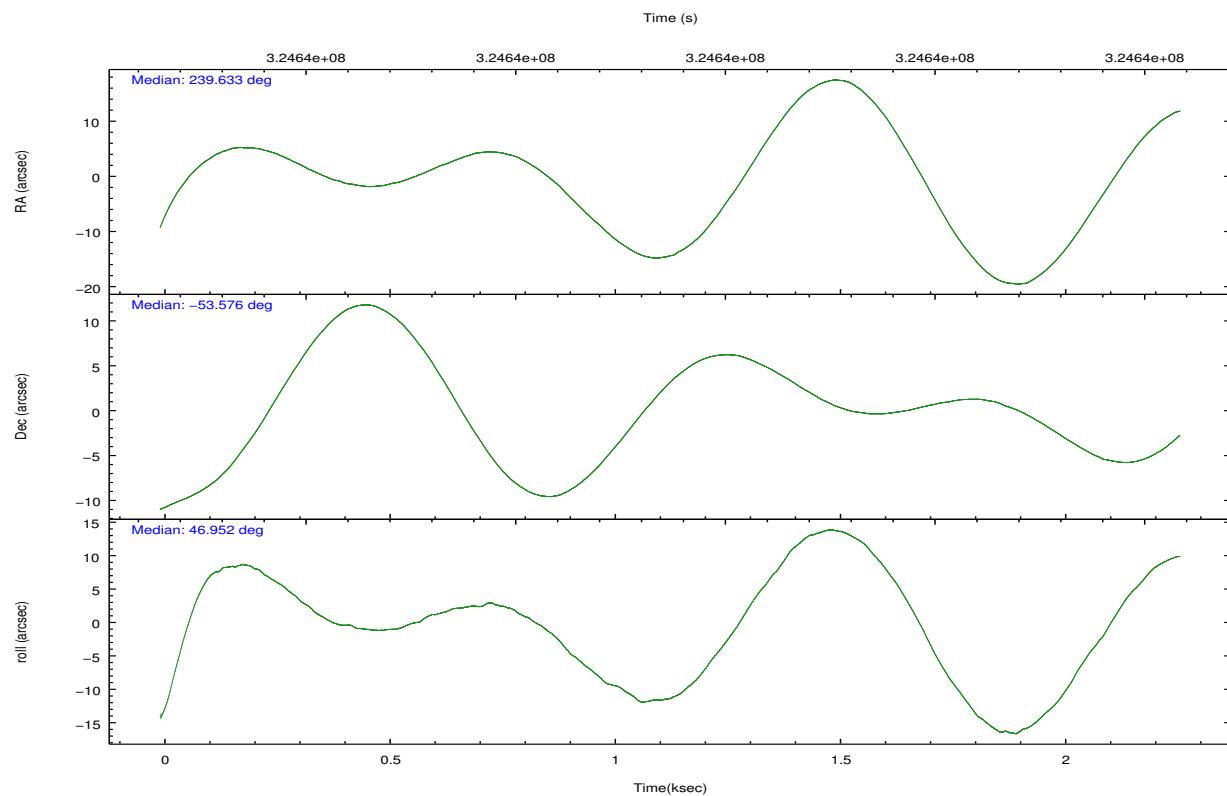
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	686	853	1036	717	695	1204
	4%	6%	4%	5%	3%	6%
grade 1 events	9	15	152	8	19	12
	0%	0%	0%	0%	0%	0%
grade 2 events	364	339	3143	413	1719	925
	2%	2%	14%	2%	8%	5%
grade 3 events	166	159	395	143	692	410
	1%	1%	1%	1%	3%	2%
grade 4 events	177	159	364	139	685	394
	1%	1%	1%	1%	3%	2%
grade 5 events	558	652	1626	684	1840	913
	3%	4%	7%	4%	9%	5%
grade 6 events	314	270	5391	306	4423	1180
	2%	1%	24%	2%	22%	6%
grade 7 events	11968	11322	10331	11379	9461	12773
	84%	82%	46%	82%	48%	71%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	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	239.622657	239.6324015585648	CCD I2 on	O2	Y
[deg] Pointing Dec	-53.602967	-53.57637506893614	CCD I3 on	O3	Y
[deg] Pointing Roll	46.793861	46.95830498047367	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	O5	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	O4	Y
[s] Observation start time (MET)	324642001.184000	324640750.68269	CCD S5 on	N	N
Observation start date	2008-04-15T10:18:56	2008-04-15T09:59:10	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	324643502.184000	324643726.25783	On-chip summing requested	N	N
Observation end date	2008-04-15T10:43:57	2008-04-15T10:48:46	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect





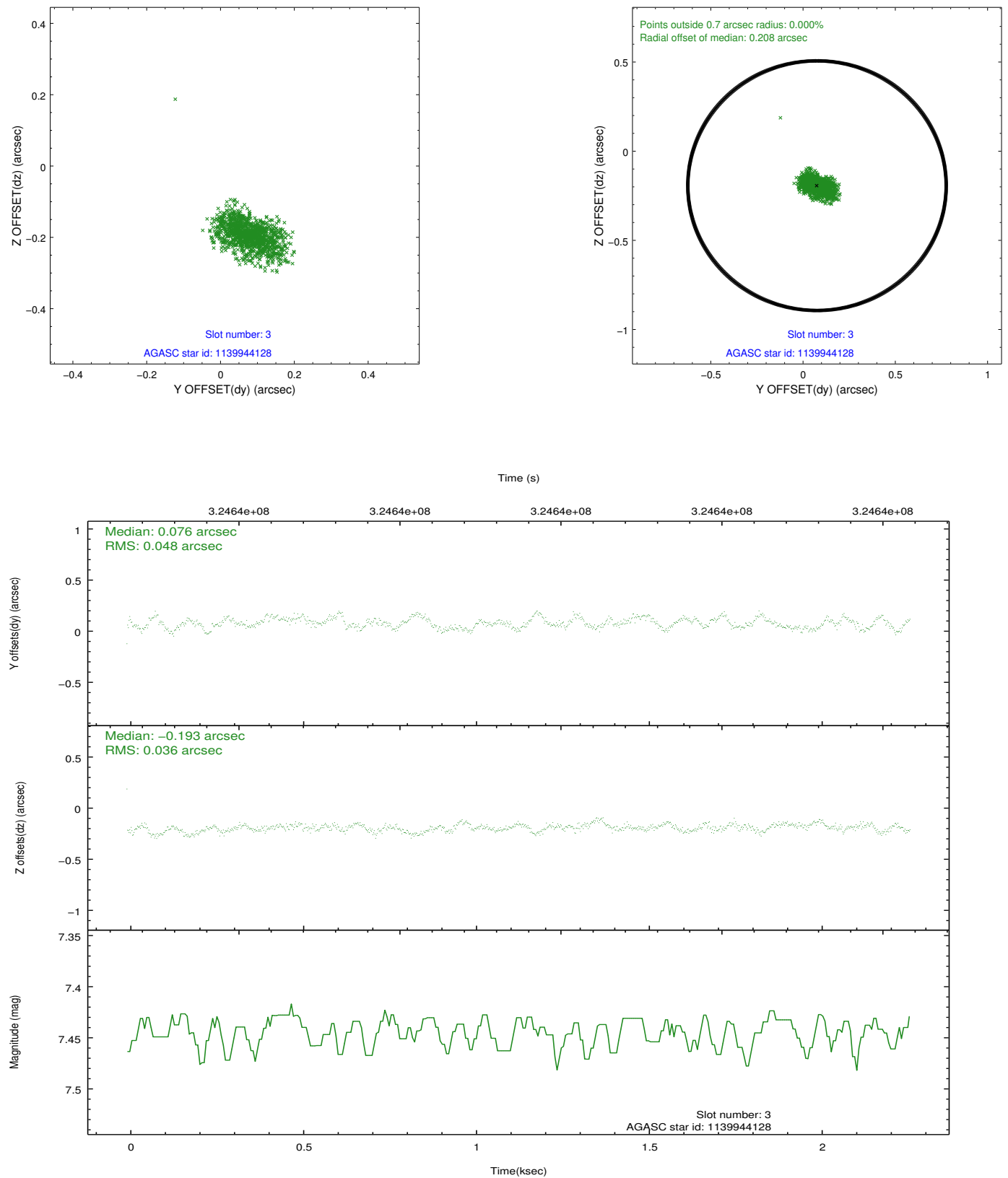
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.88	553	-0.103	-0.060	0.005	0.009	0.000000	0.000000	-767.57	-1735.83
1	FID	ACIS-S-4	6.96	553	0.099	0.063	0.006	0.010	0.000000	0.000000	2144.62	169.75
2	FID	ACIS-S-6	7.10	553	-0.023	0.004	0.006	0.011	0.000000	0.000000	398.21	810.38
3	GUIDE	1139944128	7.44	1106	0.076	-0.193	0.064	0.101	238.560779	-53.582953	-1512.94	1691.69
4	GUIDE	1139947296	8.63	1105	0.164	0.215	0.084	0.137	239.561356	-54.341844	-2027.38	-1725.44
5	GUIDE	1141656336	7.88	1106	0.079	0.039	0.059	0.095	240.010053	-53.851498	-91.90	-1214.87
6	GUIDE	1139939464	8.47	1106	-0.199	-0.168	0.066	0.110	239.737579	-53.094001	1505.73	1072.55
7	GUIDE	1141649864	8.08	1105	-0.130	0.112	0.059	0.094	240.294146	-53.690184	748.22	-1261.35

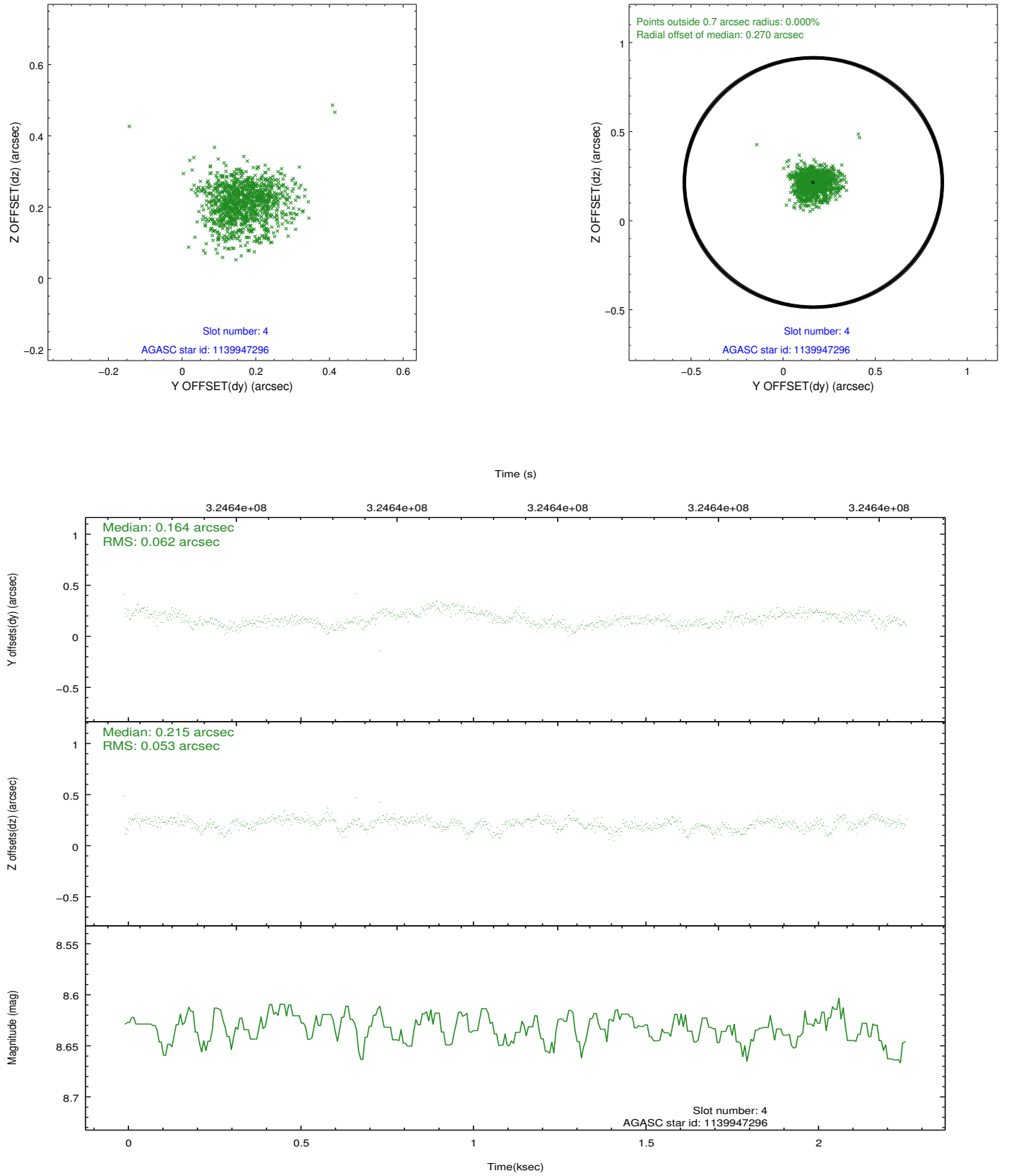


## 2.4 Star Slots

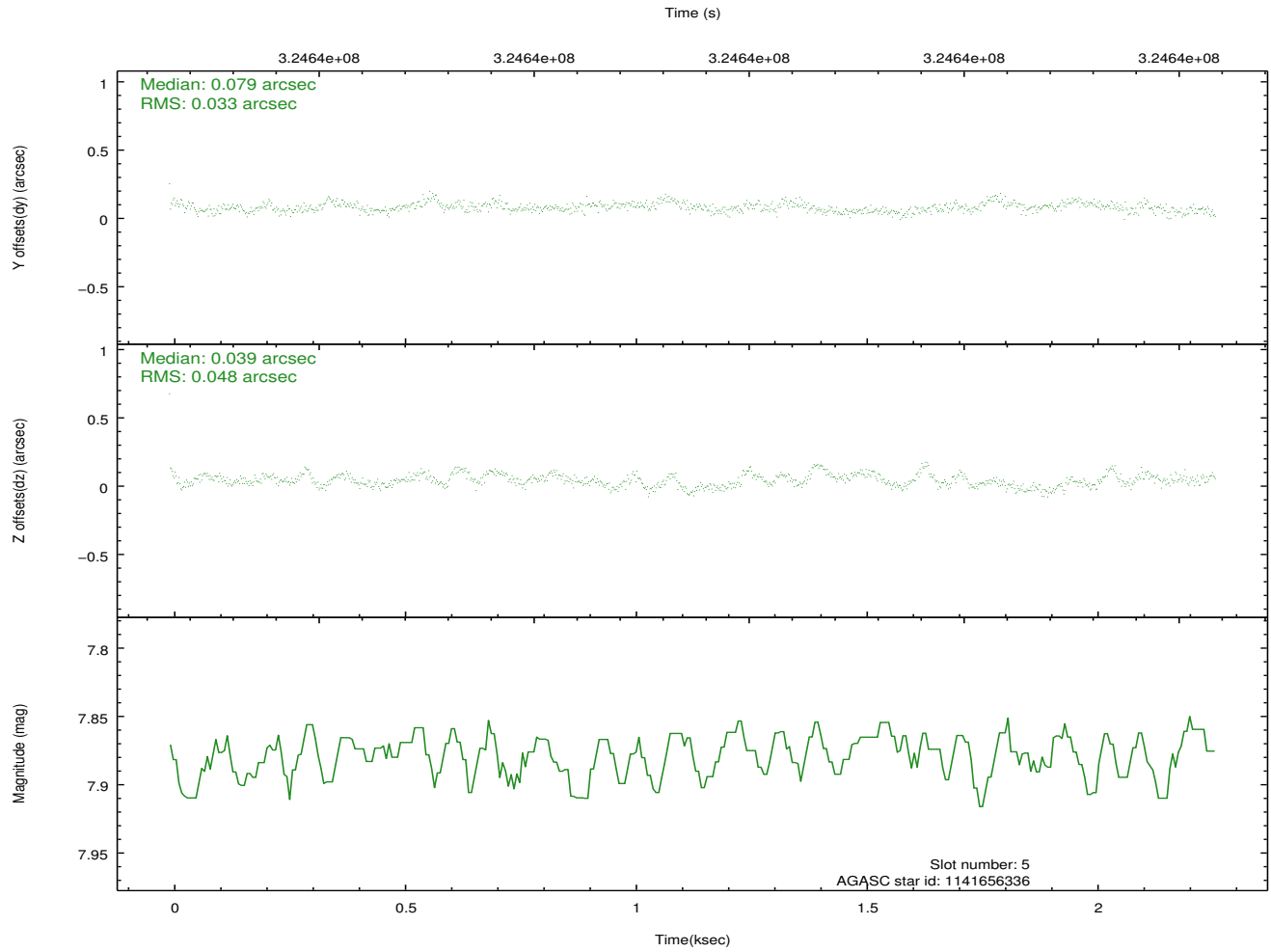
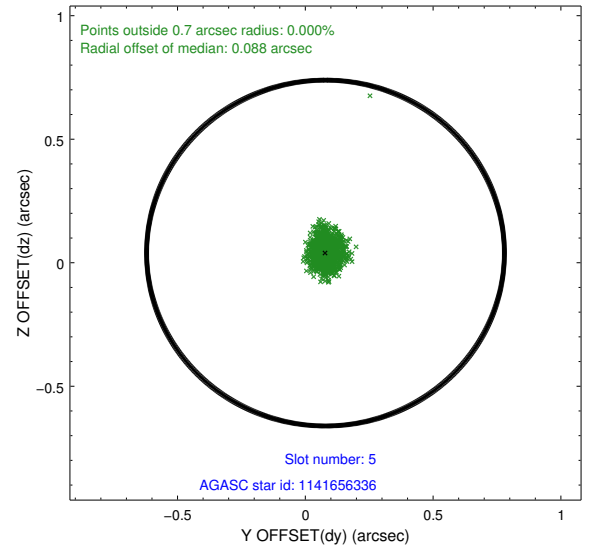
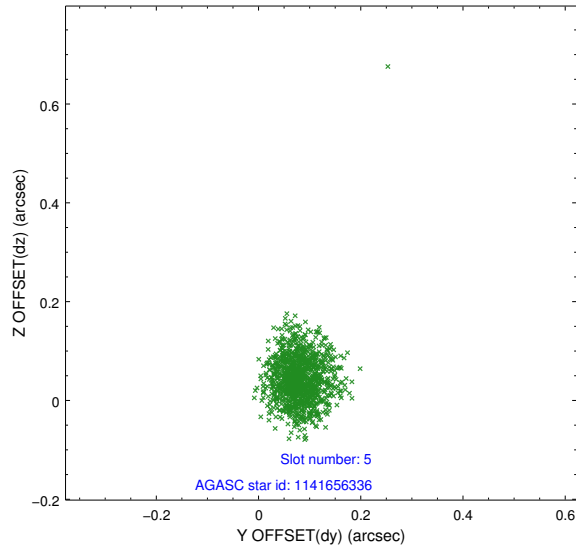
### 2.4.1 Slot 3



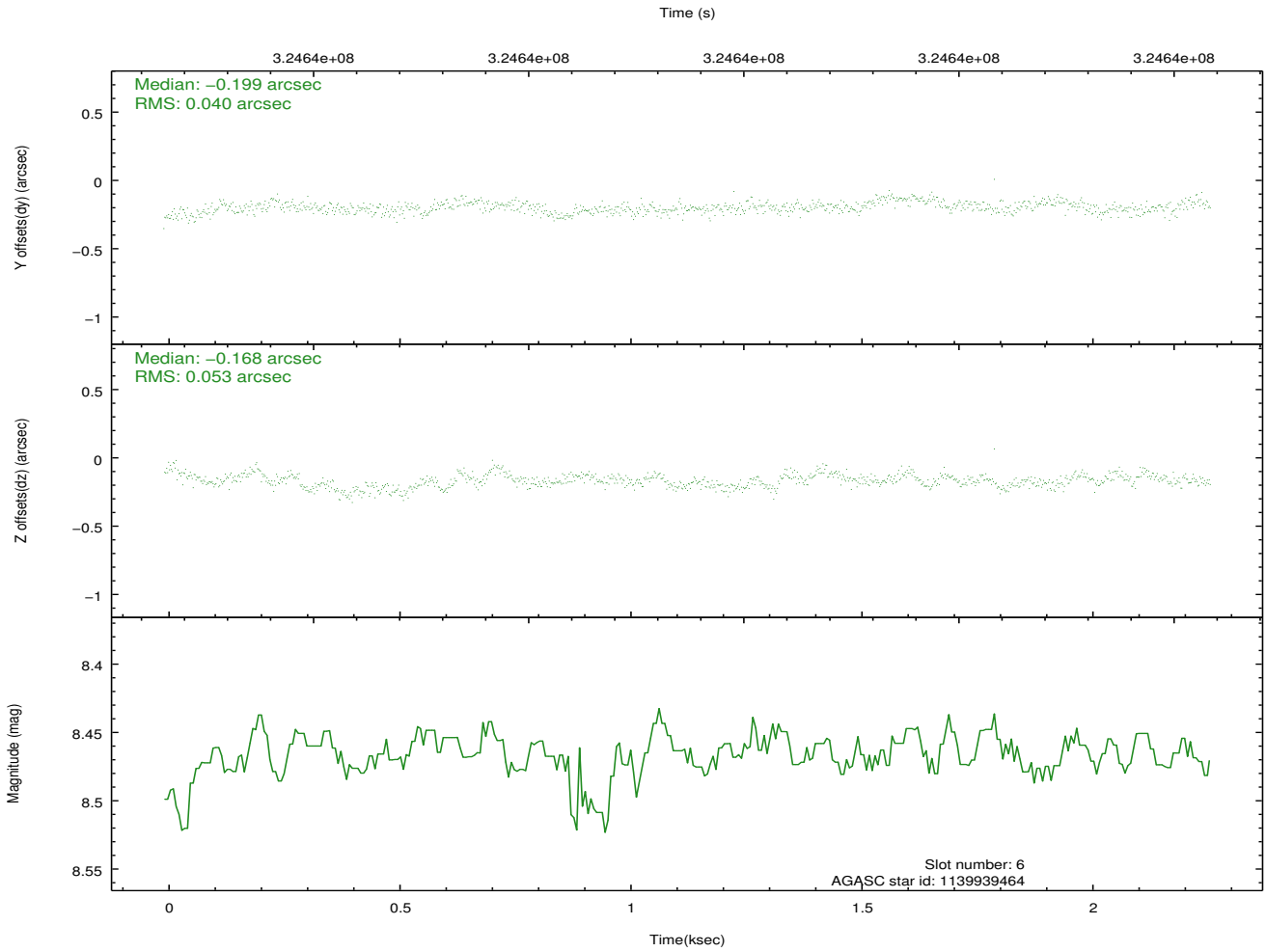
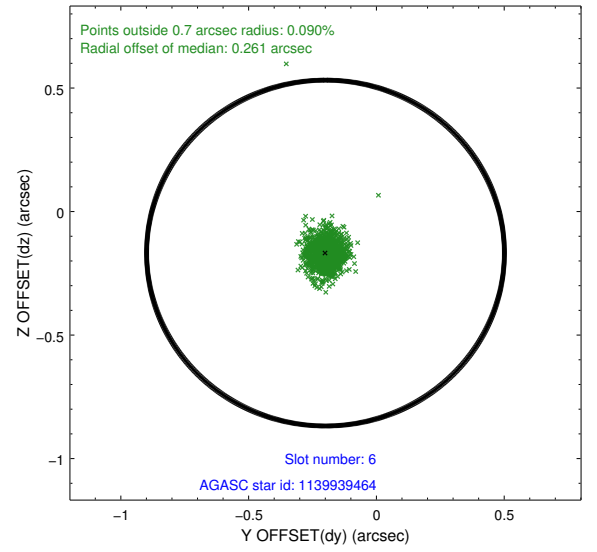
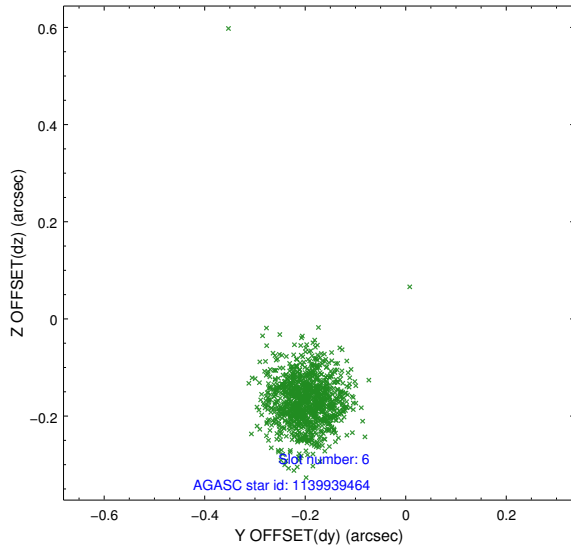
## 2.4.2 Slot 4



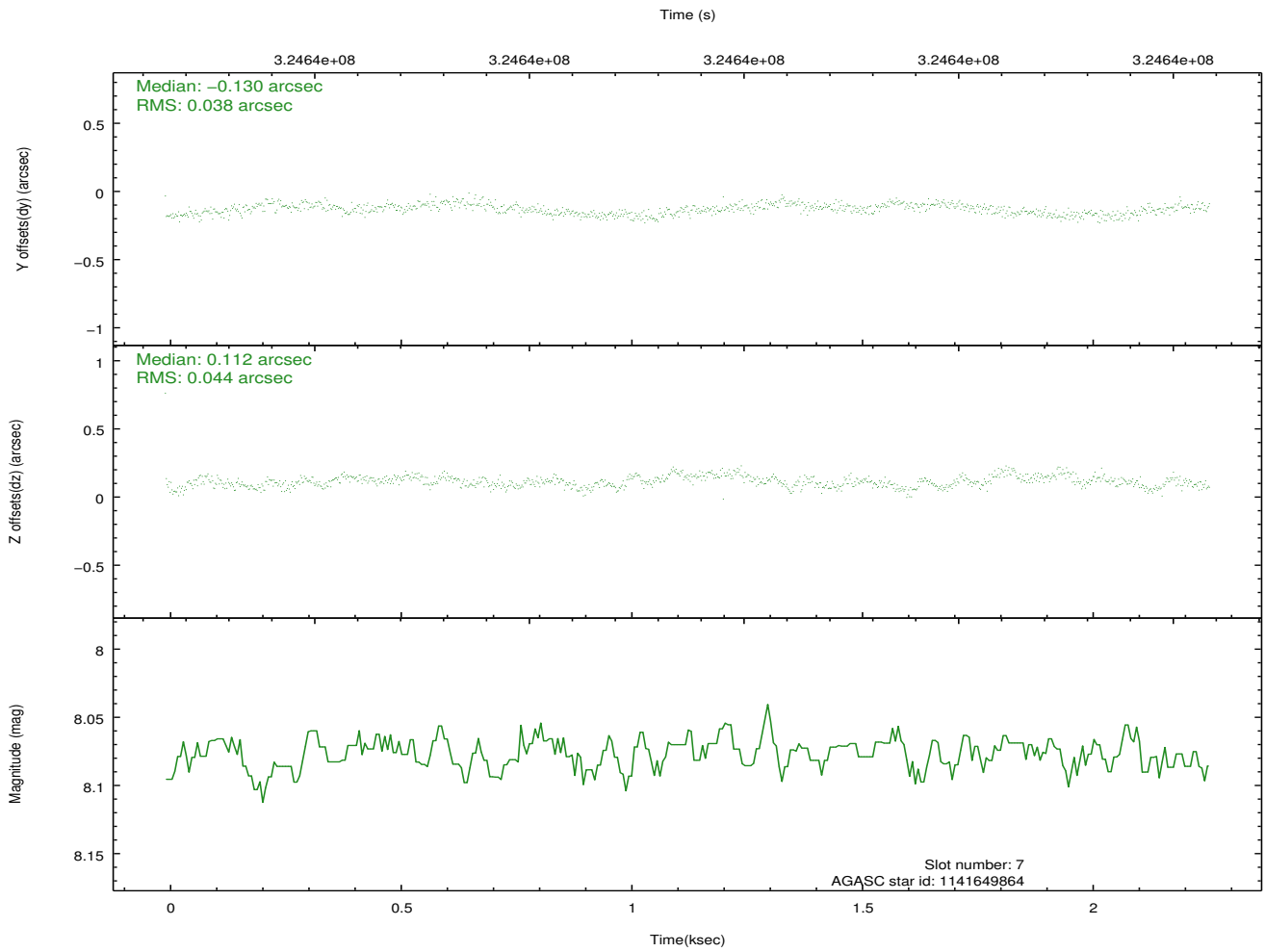
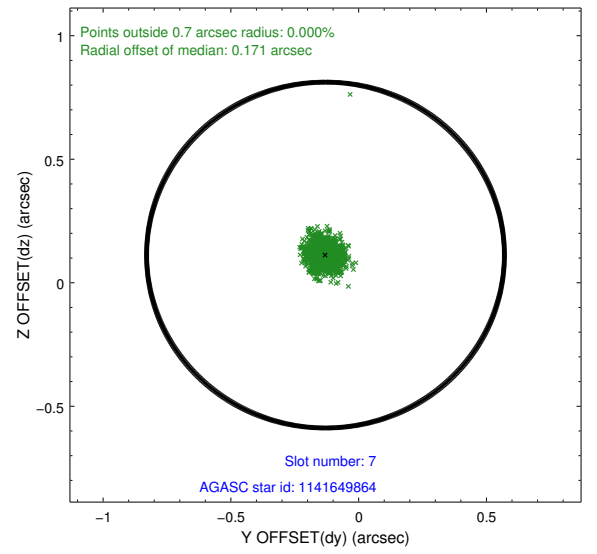
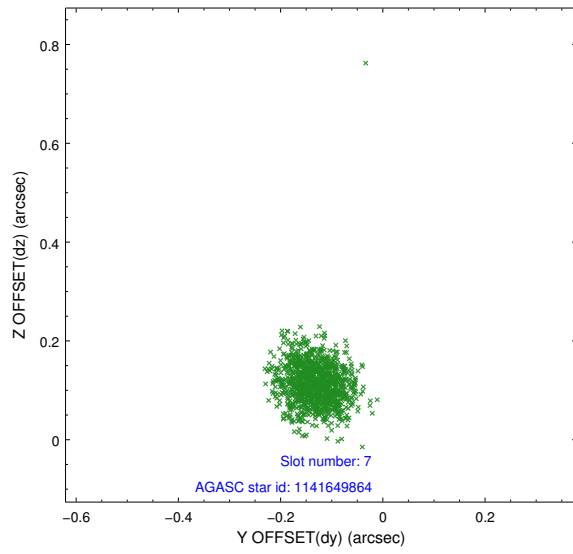
### 2.4.3 Slot 5



## 2.4.4 Slot 6

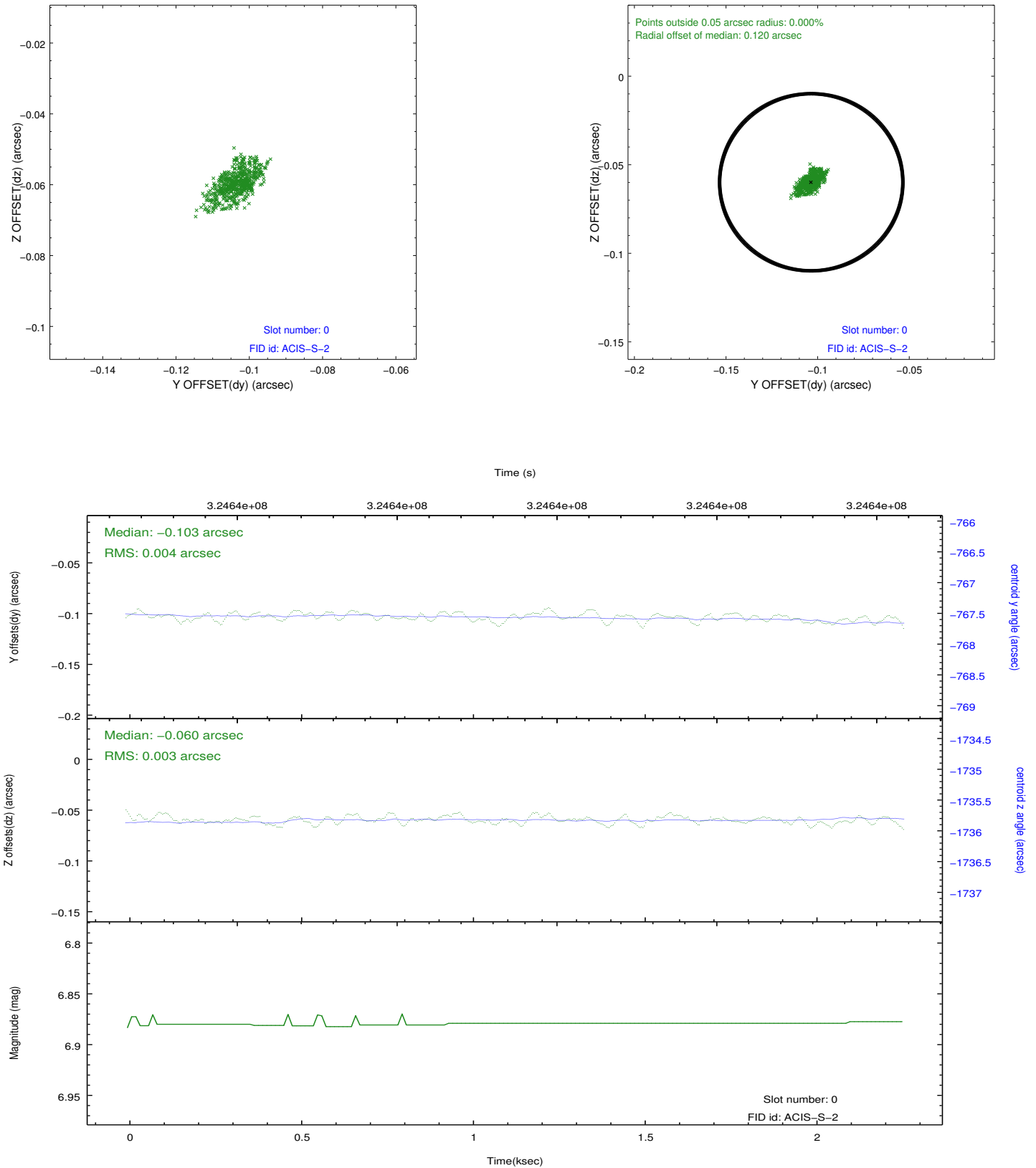


## 2.4.5 Slot 7

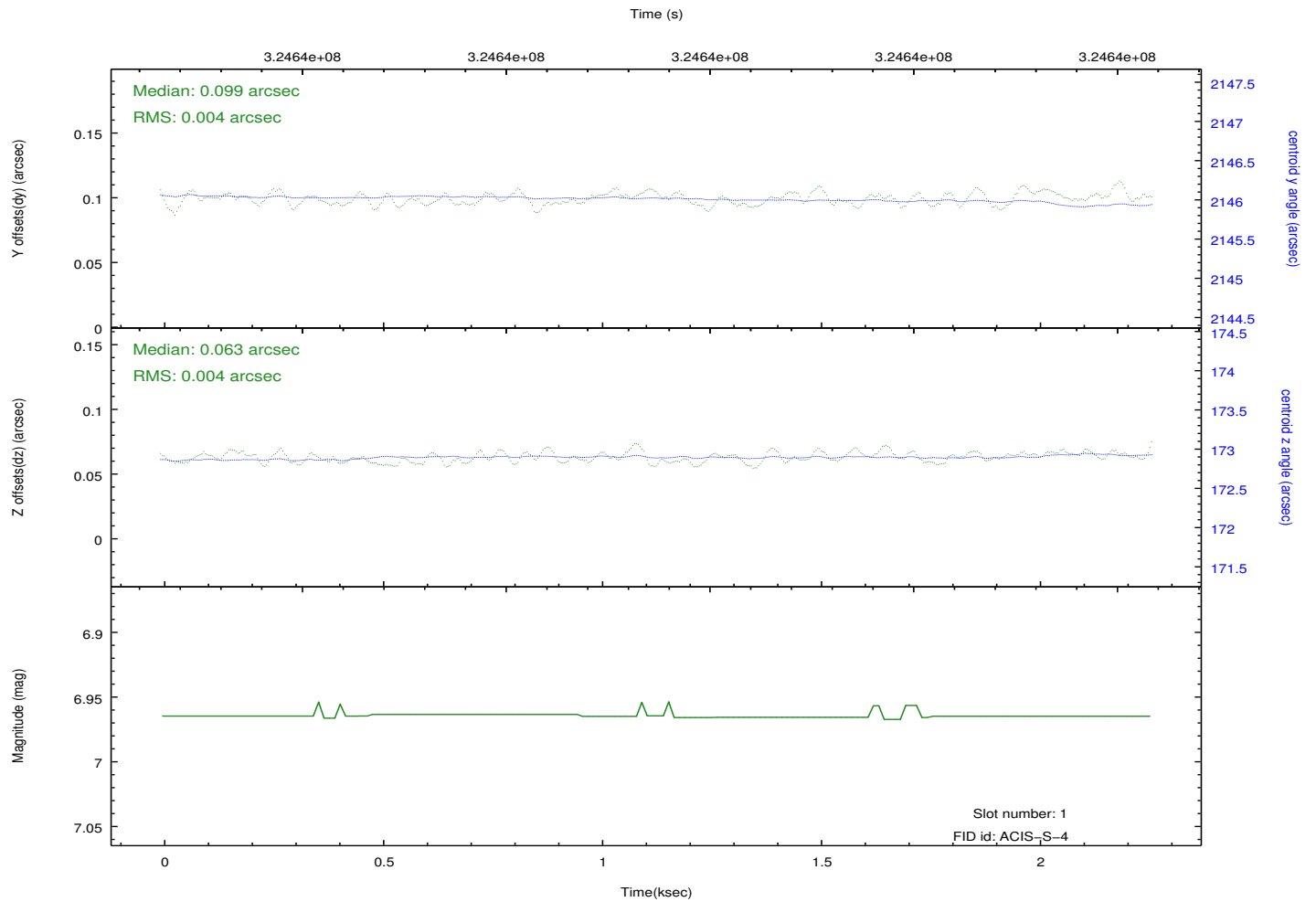
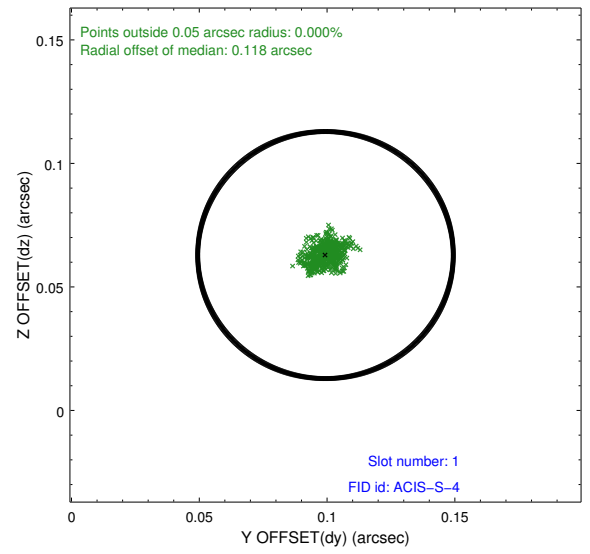
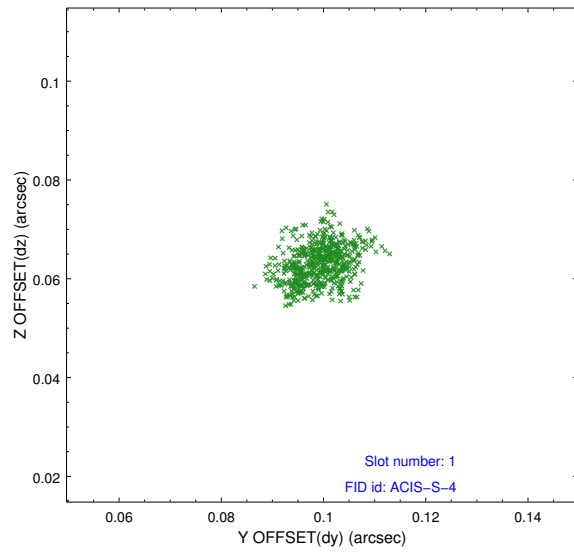


## 2.5 FID Slots

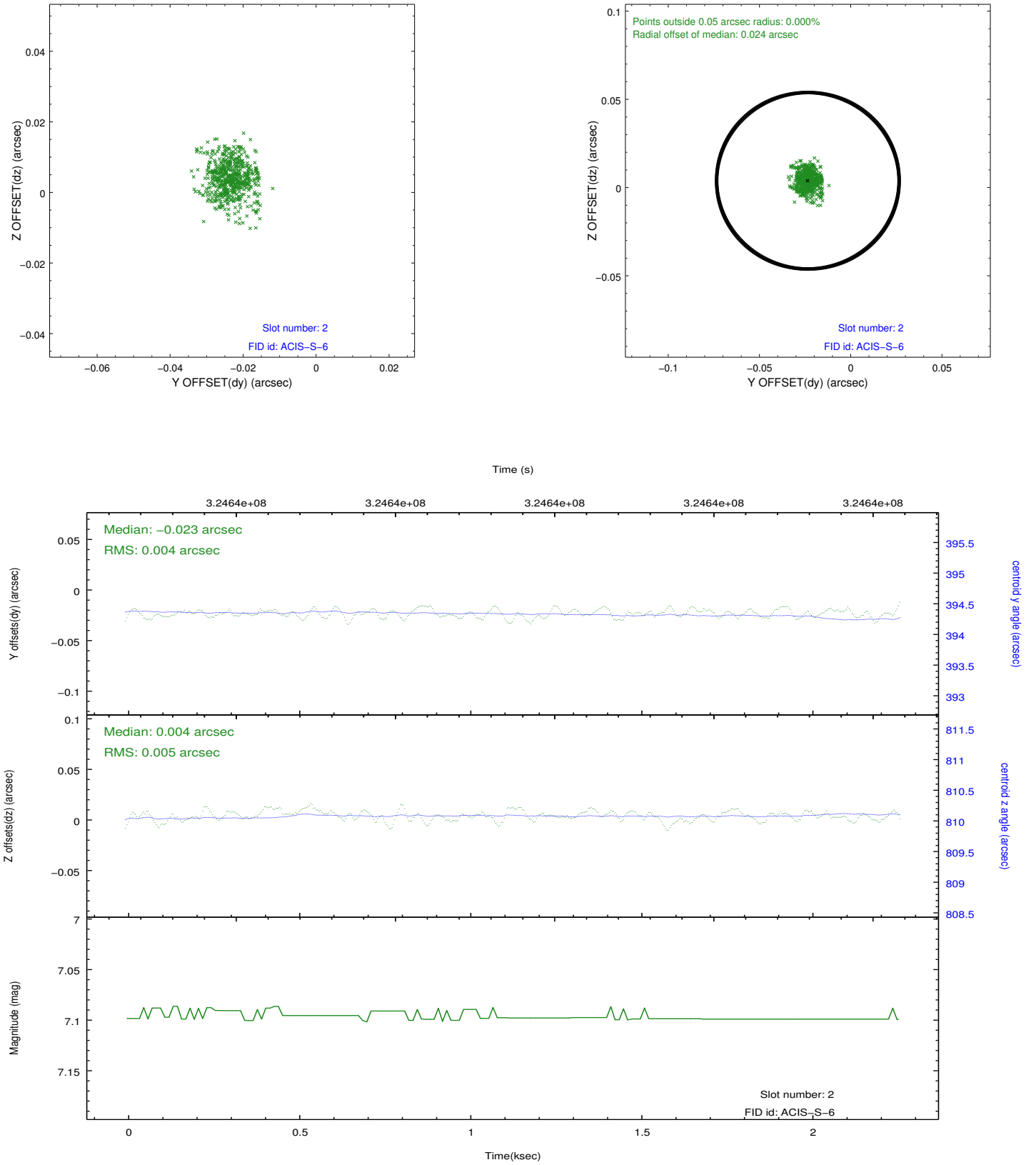
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2





## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.05.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.44959999

### A.2 Comments