

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9269 - L2 Version 2  
Chandra X-Ray Center

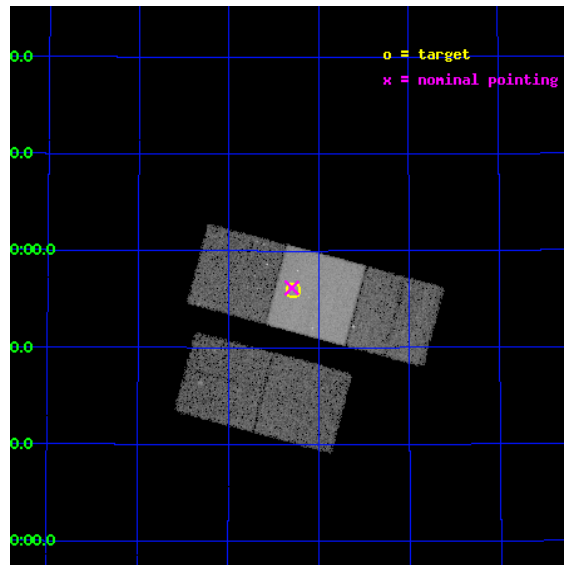
L2 Processing Date : May 8 2012

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# 1 Front

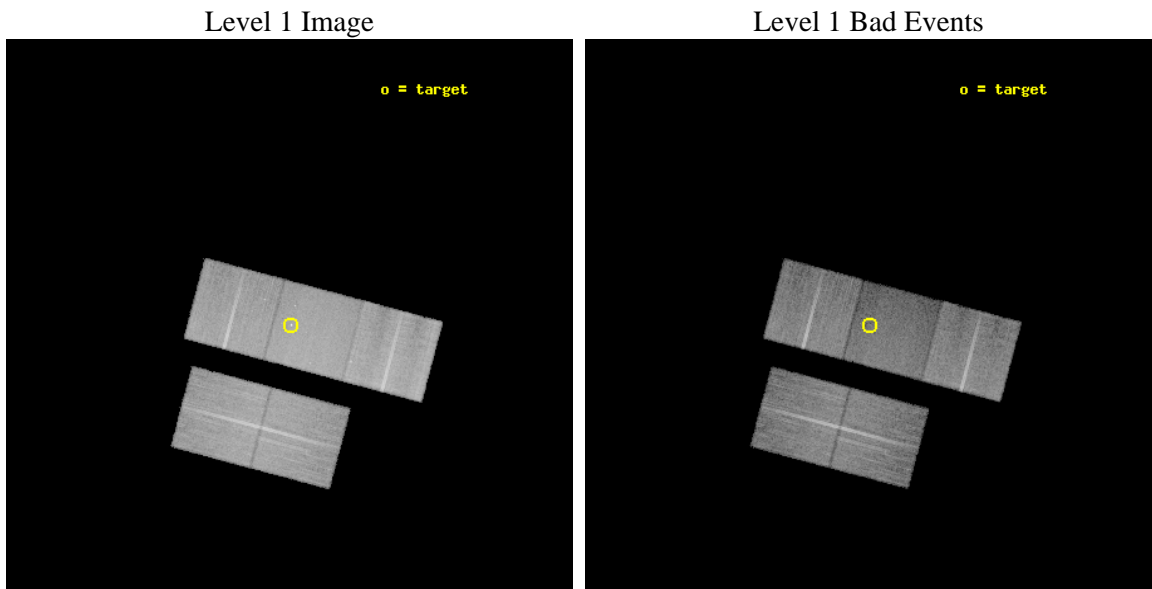
seq_num	701710	Sequence number
obs_id	9269	Observation id
title	Shock-heating by double-lobed radio sources in spiral galaxies	Pro
observer	Dr Judith Croston	Principal investigator
object	NGC6764	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	287.069167	Observer's specified target RA [deg]
dec_targ	50.933056	Observer's specified target Dec [deg]
ra_nom	287.0744789038	Nominal RA [deg]
dec_nom	50.936601687813	Nominal Dec [deg]
roll_nom	14.895368518906	Nominal Roll [deg]
revision	2	Processing version of data
ontime	20177.900155187	Sum of GTIs [s]
liveltime	19914.261034905	Livetime [s]
ontime2	20177.900155187	Sum of GTIs [s]
ontime3	20171.618174732	Sum of GTIs [s]
ontime6	20177.900155187	Sum of GTIs [s]
ontime7	20177.900155187	Sum of GTIs [s]
ontime8	20168.47714442	Sum of GTIs [s]
l2events	138232	Number of level 2 events



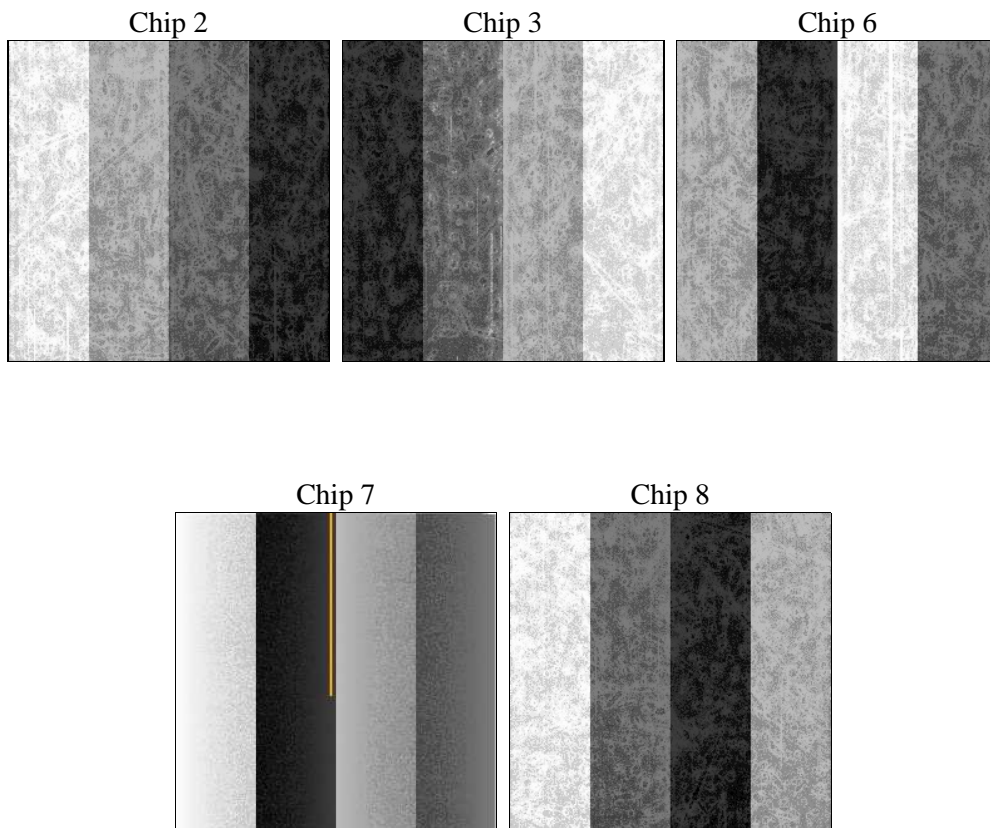
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	20177.900155187	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime2	20177.900155187	Sum of GTIs [s]
date	2012-05-08T14:51:38	Date and time of file creation	ontime3	20171.618174732	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	20177.900155187	Sum of GTIs [s]
			ontime7	20177.900155187	Sum of GTIs [s]
			ontime8	20168.47714442	Sum of GTIs [s]
			l1events	882581	Number of level 1 events

### 2.1.4 Events

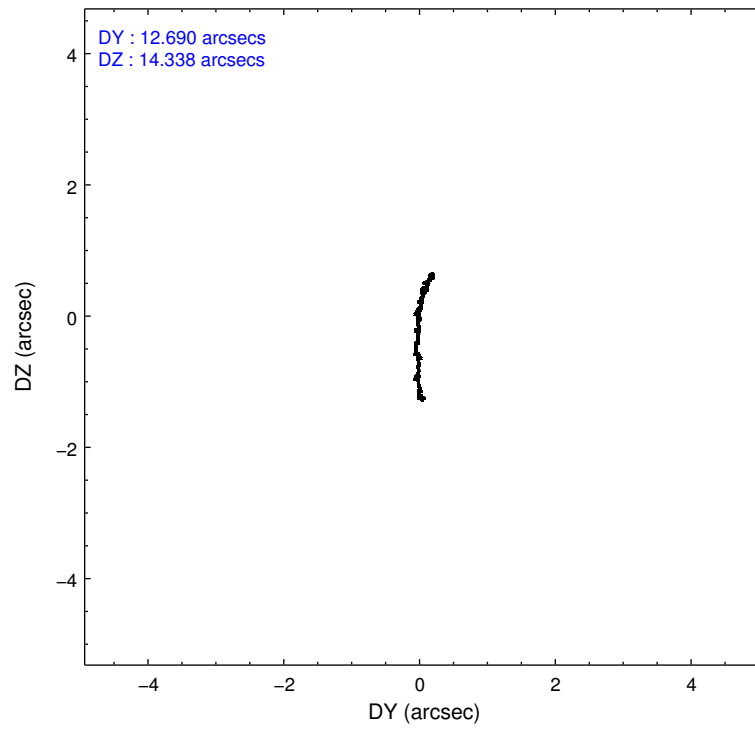
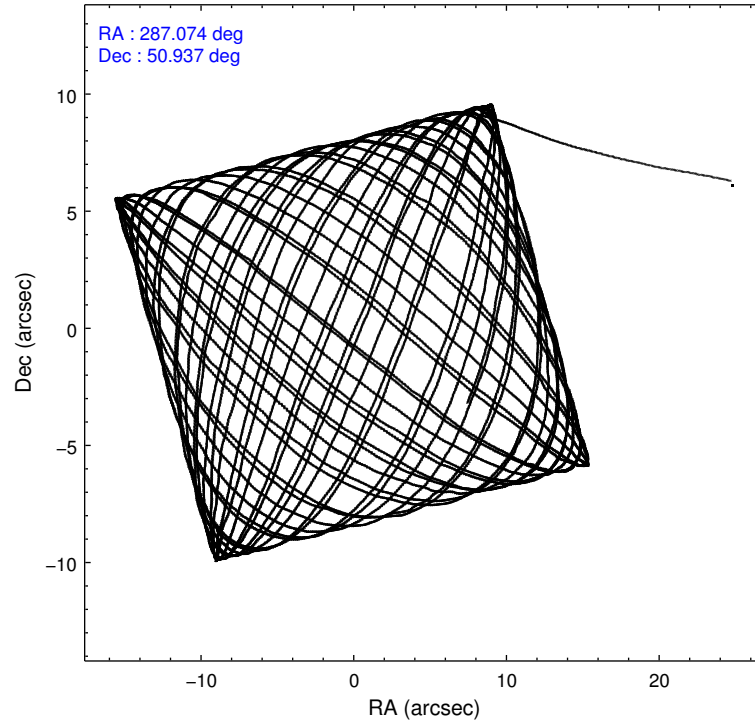
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	166648	159919	163268	185418	207328
rejected events	151013	145086	146465	101944	157584
rejected %	90%	90%	89%	54%	76%

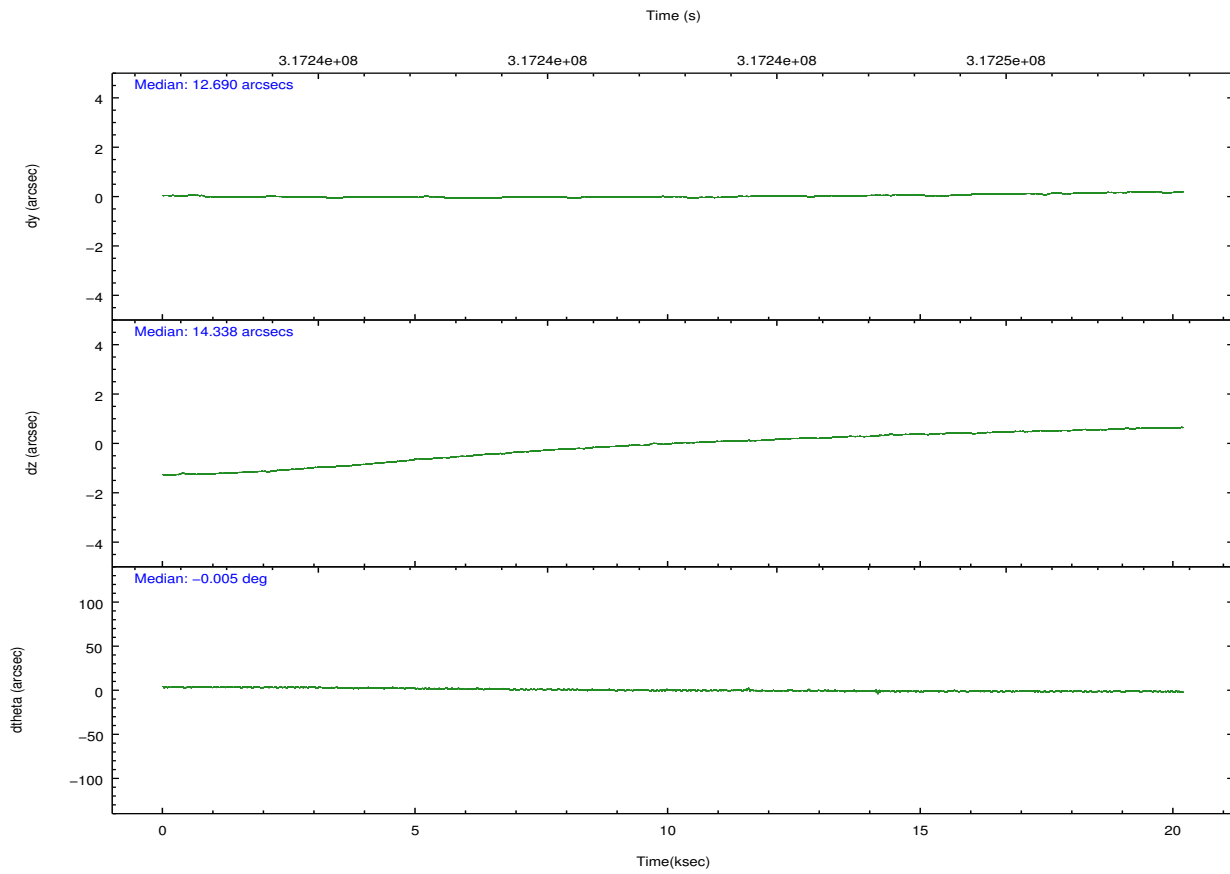
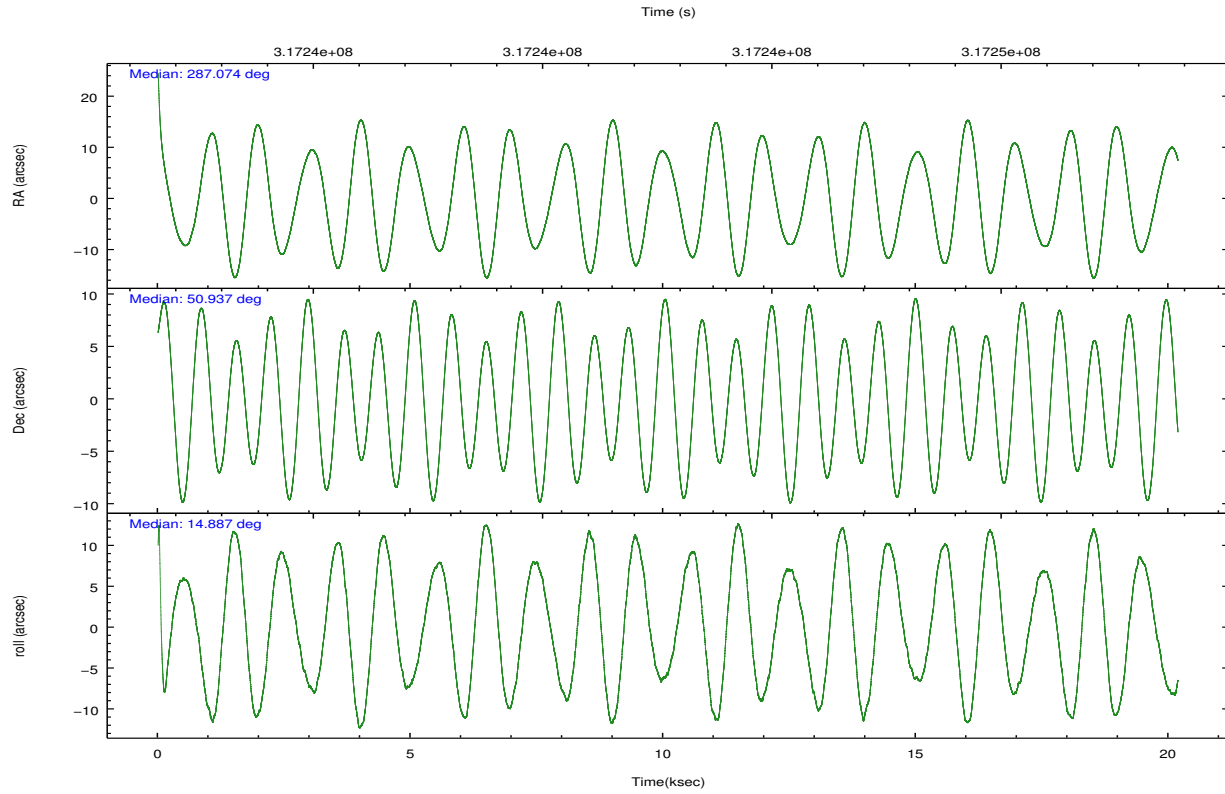
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	5689	5339	5946	8158	15106
	3%	3%	3%	4%	7%
grade 1 events	97	84	78	242	170
	0%	0%	0%	0%	0%
grade 2 events	3738	3295	3782	17163	11559
	2%	2%	2%	9%	5%
grade 3 events	1750	1751	1893	7699	5370
	1%	1%	1%	4%	2%
grade 4 events	1732	1650	1811	7799	5075
	1%	1%	1%	4%	2%
grade 5 events	5433	6502	6647	19339	9548
	3%	4%	4%	10%	4%
grade 6 events	2925	3014	3593	43811	13301
	1%	1%	2%	23%	6%
grade 7 events	145284	138284	139518	81207	147199
	87%	86%	85%	43%	70%

## 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	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	287.044161	287.074478903797	CCD I2 on	O1	Y
[deg] Pointing Dec	50.917010	50.93660168781268	CCD I3 on	Y	Y
[deg] Pointing Roll	14.762264	14.89536851890568	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)	317232839.184000	317231695.67268	CCD S5 on	N	N
Observation start date	2008-01-20T16:12:54	2008-01-20T15:54:55	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	317252839.184000	317253737.27374	On-chip summing requested	N	N
Observation end date	2008-01-20T21:46:14	2008-01-20T22:02:17	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



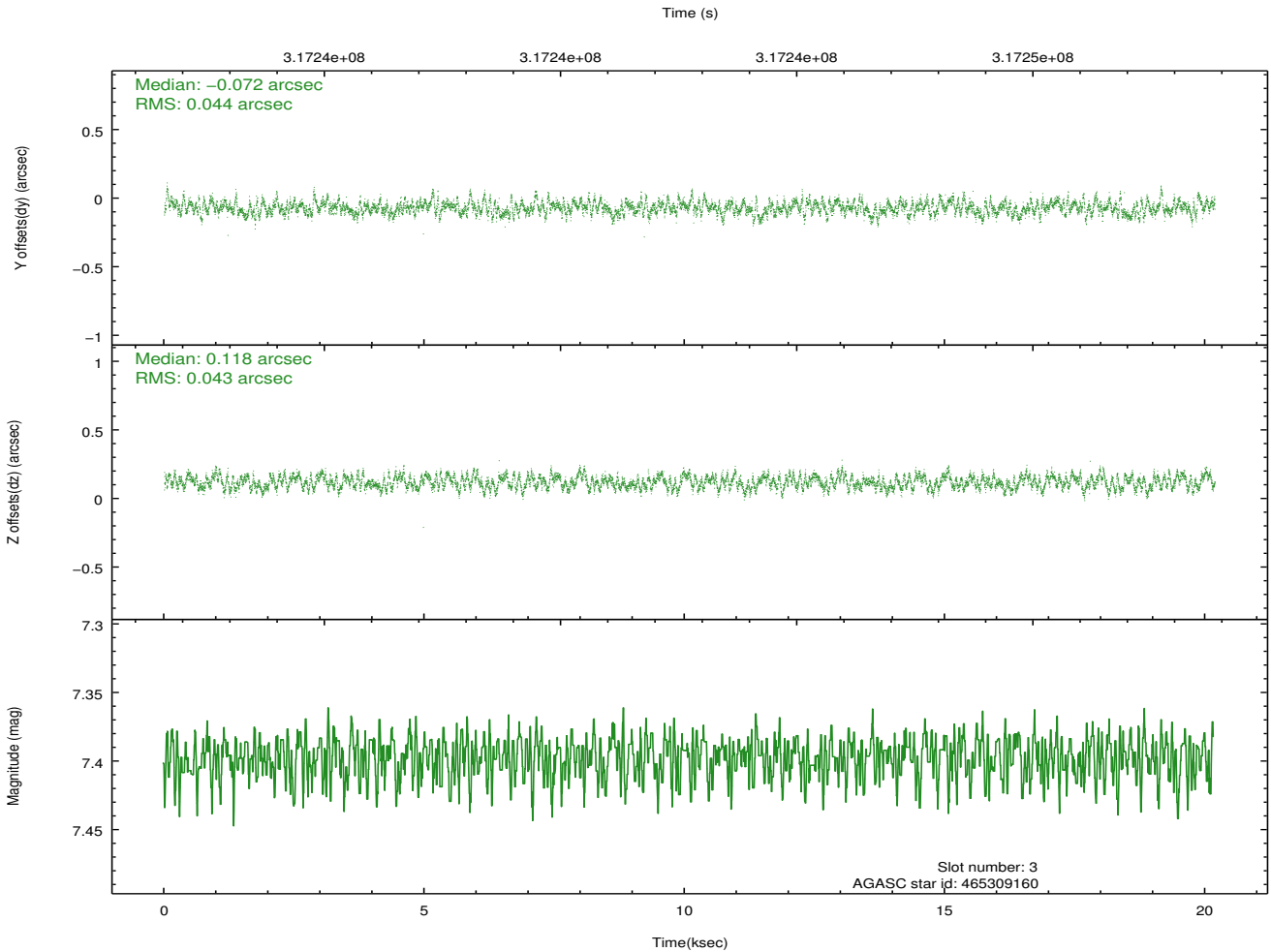
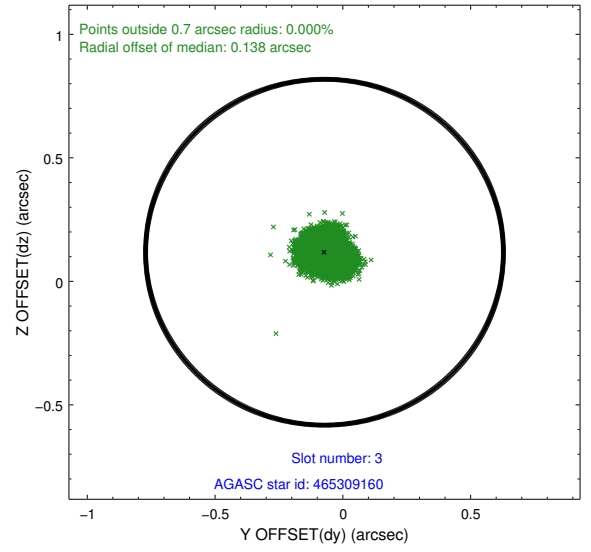
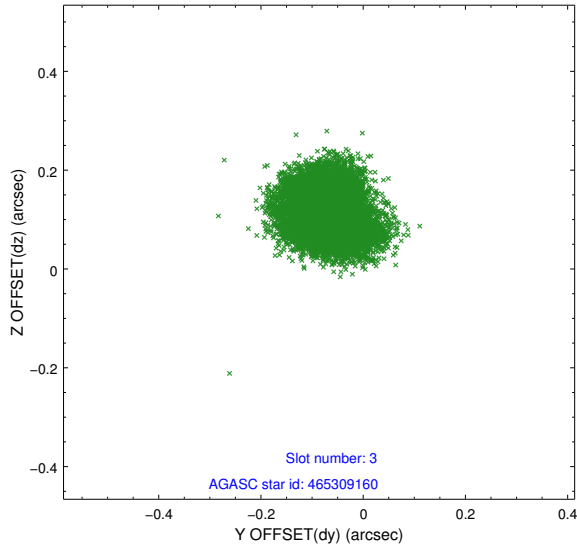


### Slot Statistics

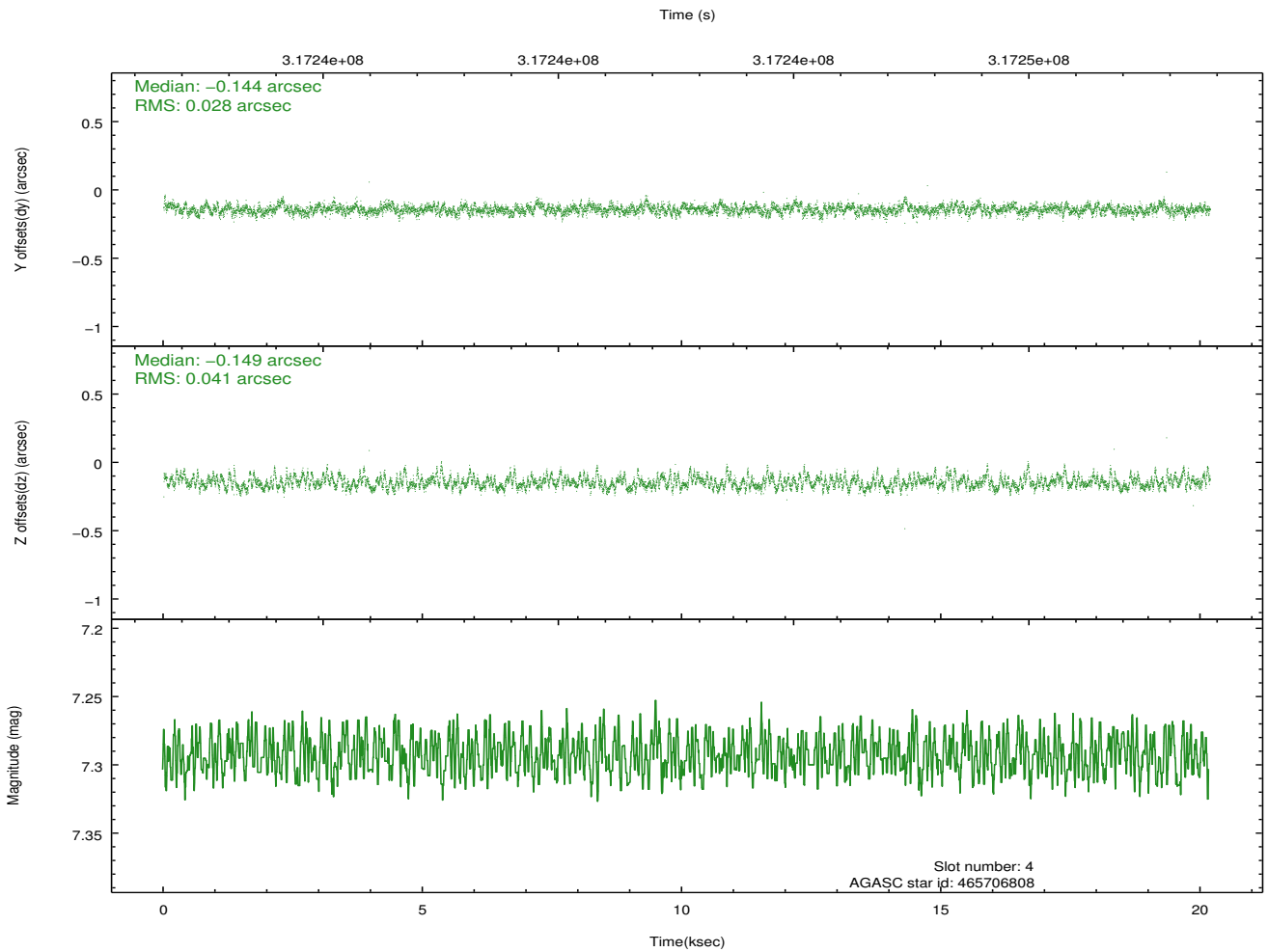
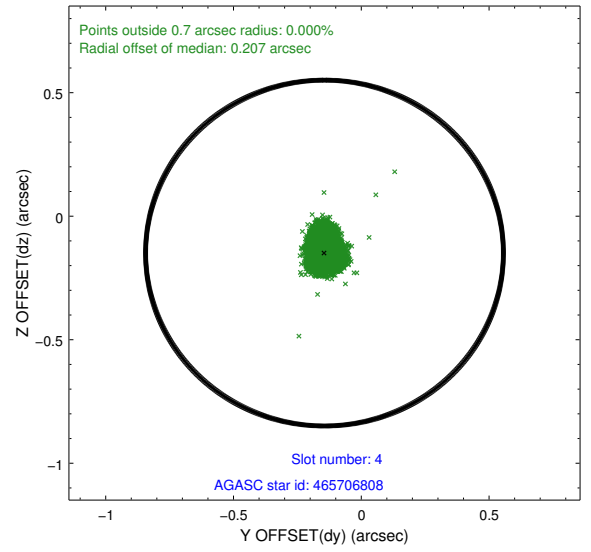
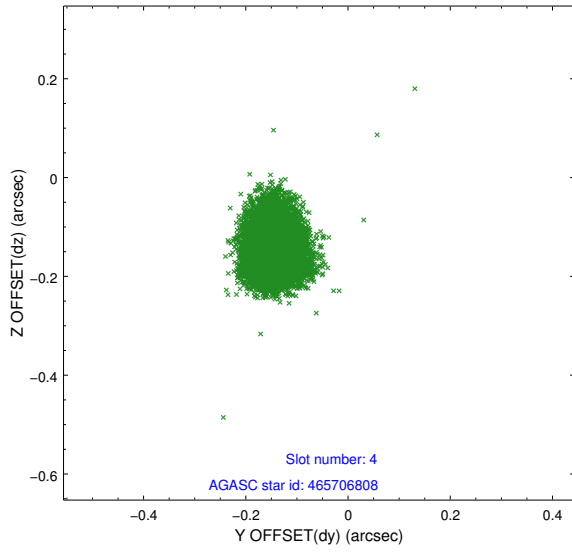
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	4923	-0.040	-0.042	0.017	0.026	0.000000	0.000000	-765.65	-1735.59
1	FID	ACIS-S-4	7.19	4923	0.146	0.030	0.013	0.024	0.000000	0.000000	2147.71	172.80
2	FID	ACIS-S-5	7.23	4923	-0.137	0.020	0.015	0.021	0.000000	0.000000	-1818.37	166.64
3	GUIDE	465309160	7.40	9847	-0.072	0.118	0.067	0.104	287.138997	50.363874	-296.38	-1981.02
4	GUIDE	465706808	7.29	9847	-0.144	-0.149	0.052	0.087	286.831013	51.379615	-38.86	1732.59
5	GUIDE	465834104	9.01	9837	0.093	0.093	0.091	0.148	287.705039	50.720052	1277.91	-1062.90
6	GUIDE	465835688	8.52	9844	-0.029	-0.014	0.059	0.097	287.753023	51.362229	1951.46	1151.15
7	GUIDE	465830112	9.07	9840	0.156	-0.050	0.079	0.127	287.492506	51.403785	1421.30	1441.07

## 2.4 Star Slots

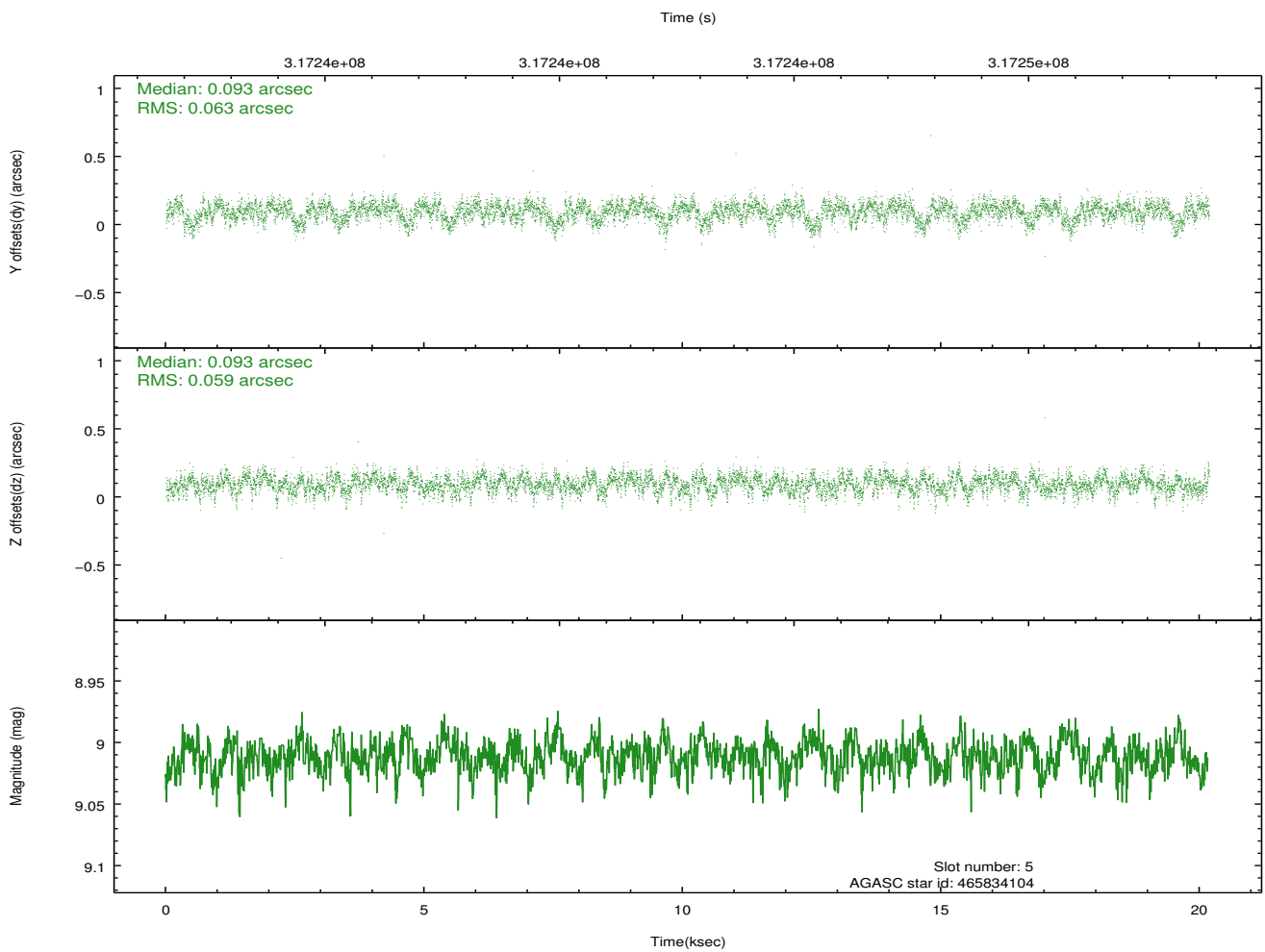
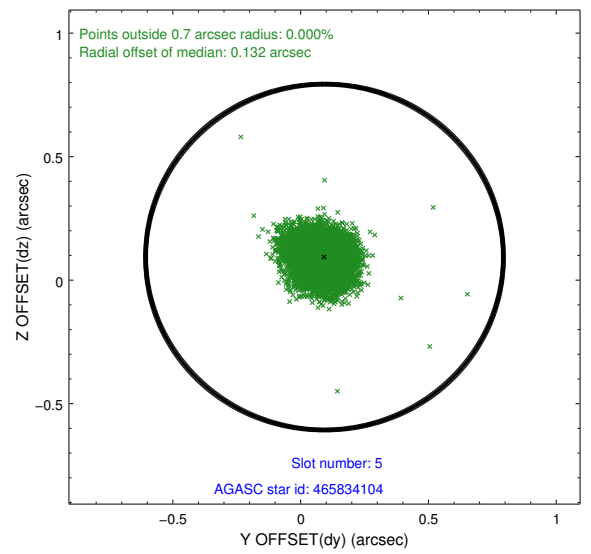
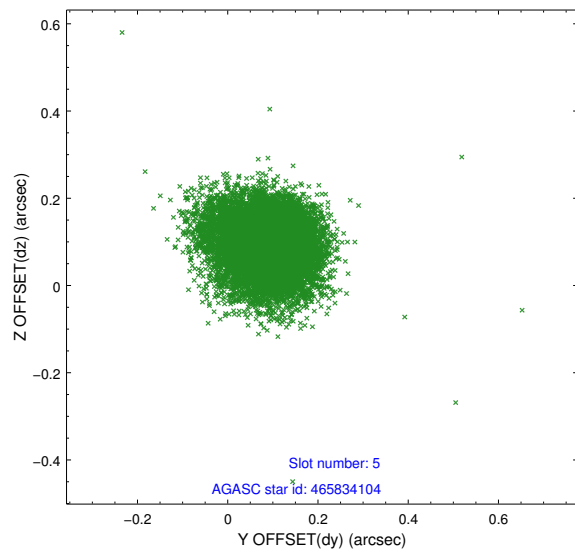
### 2.4.1 Slot 3



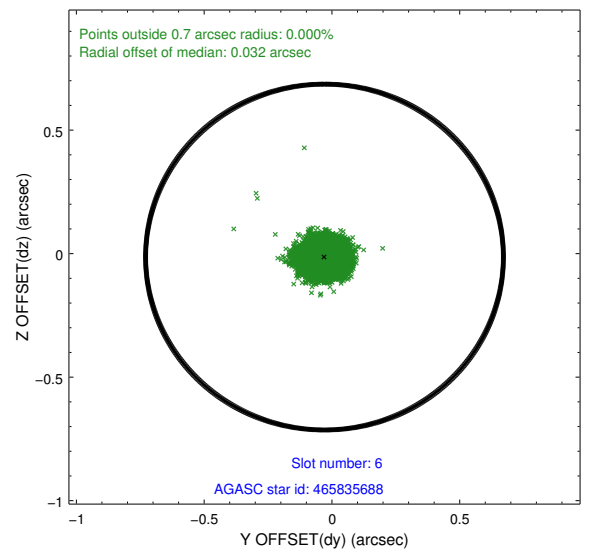
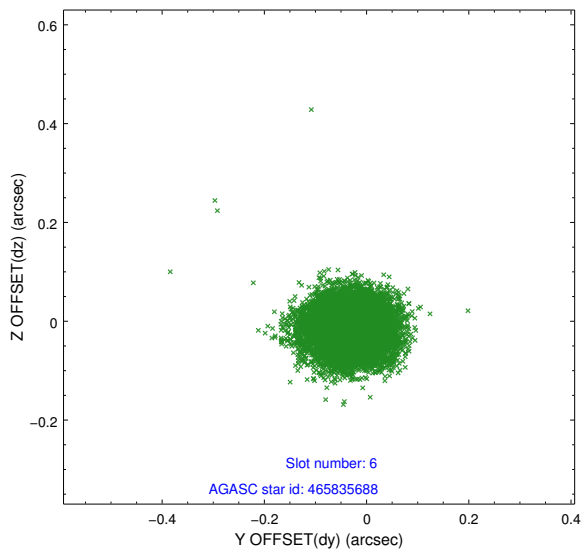
## 2.4.2 Slot 4



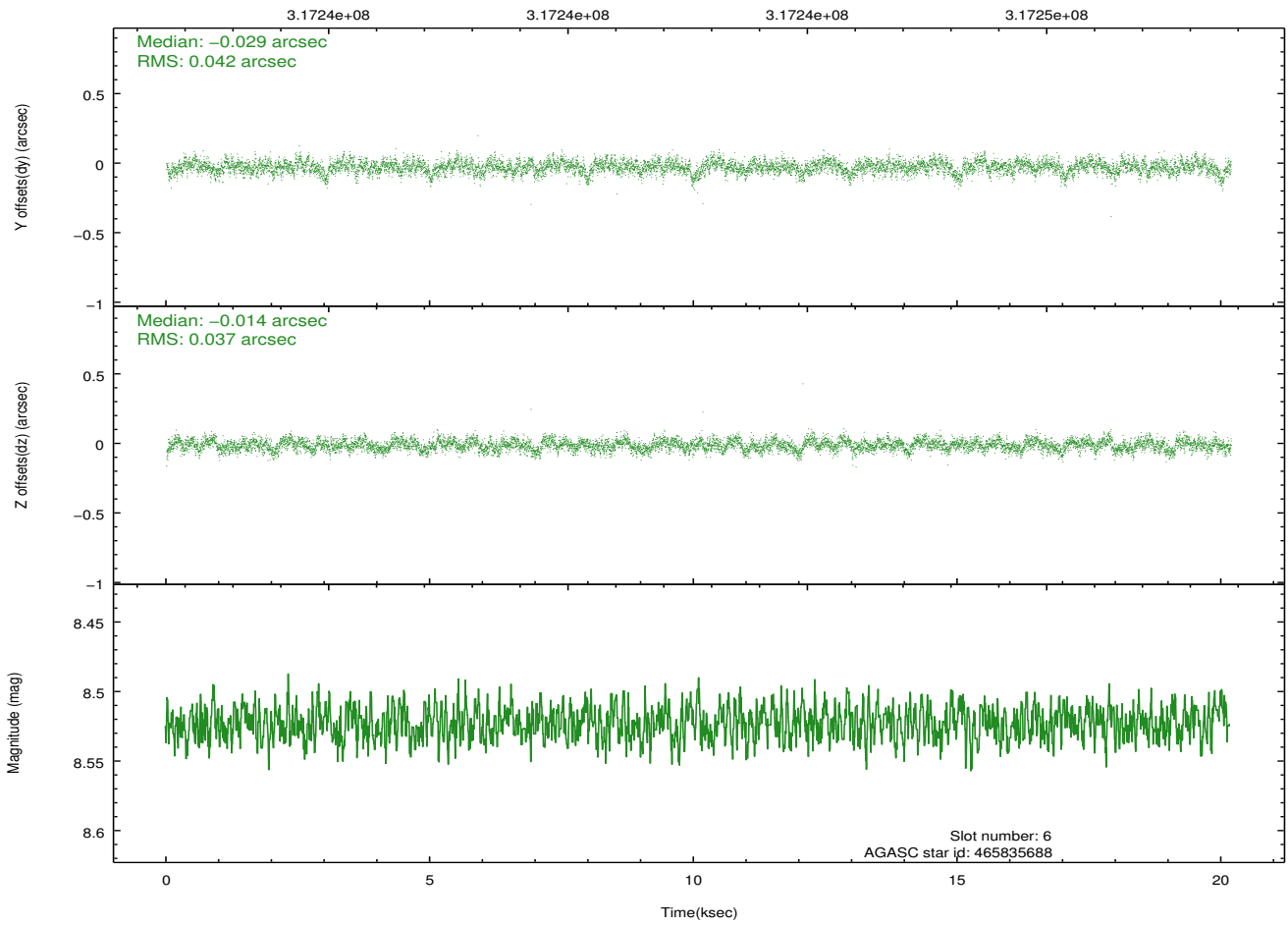
### 2.4.3 Slot 5



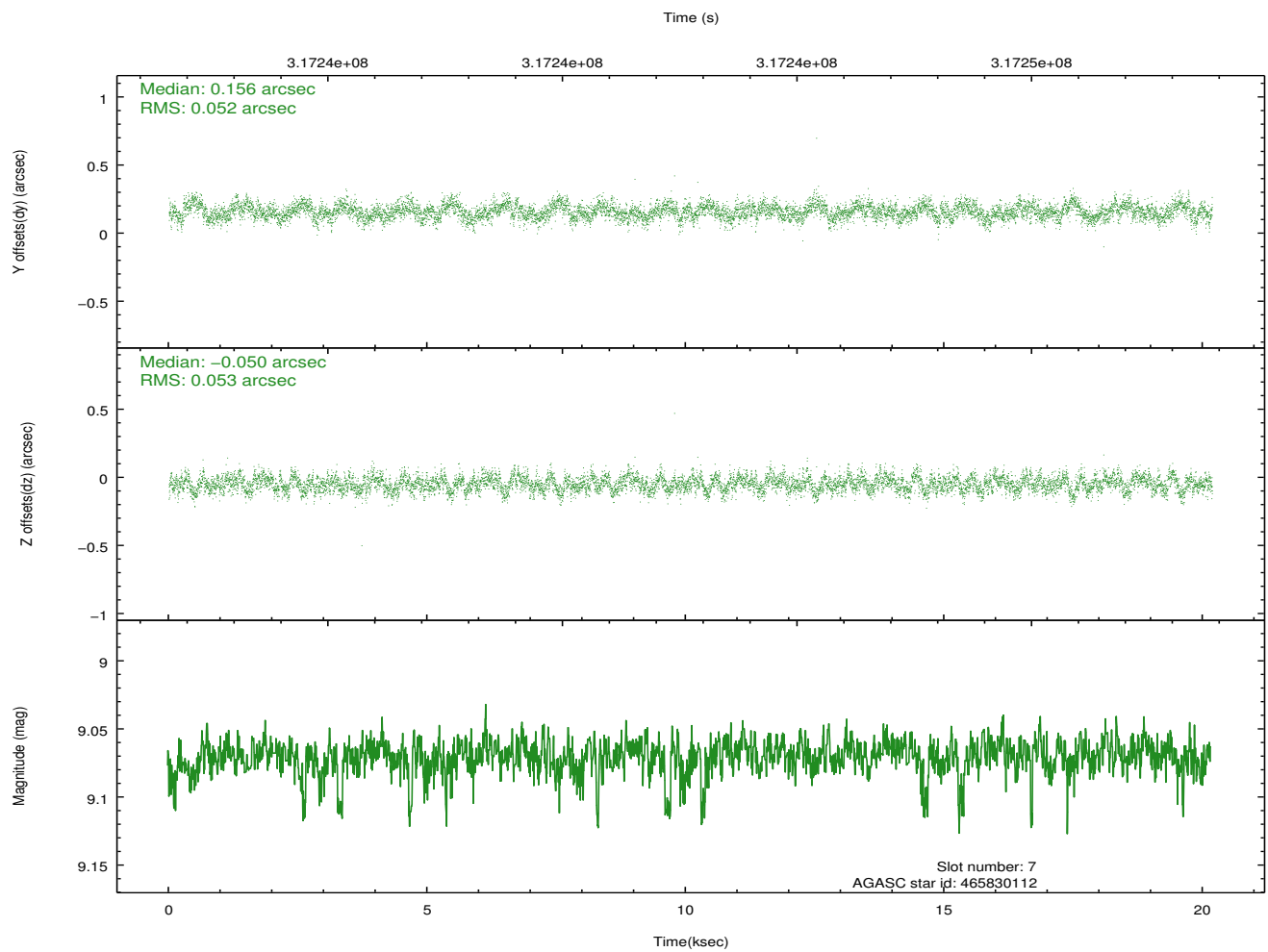
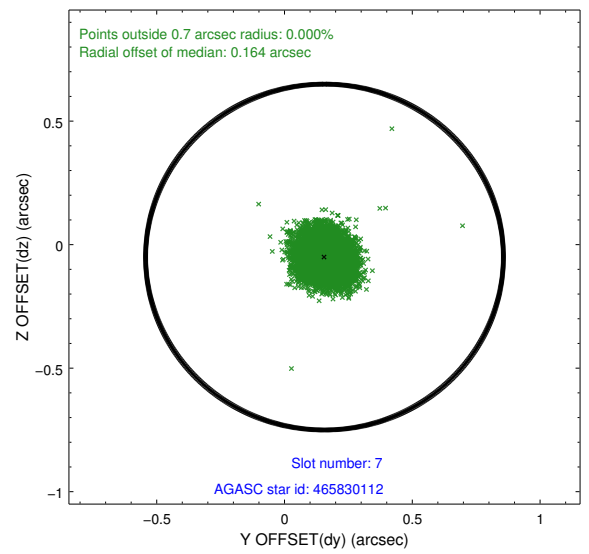
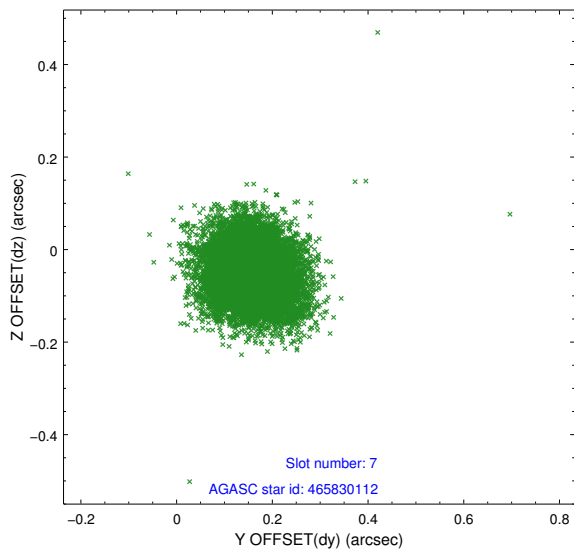
## 2.4.4 Slot 6



Time (s)

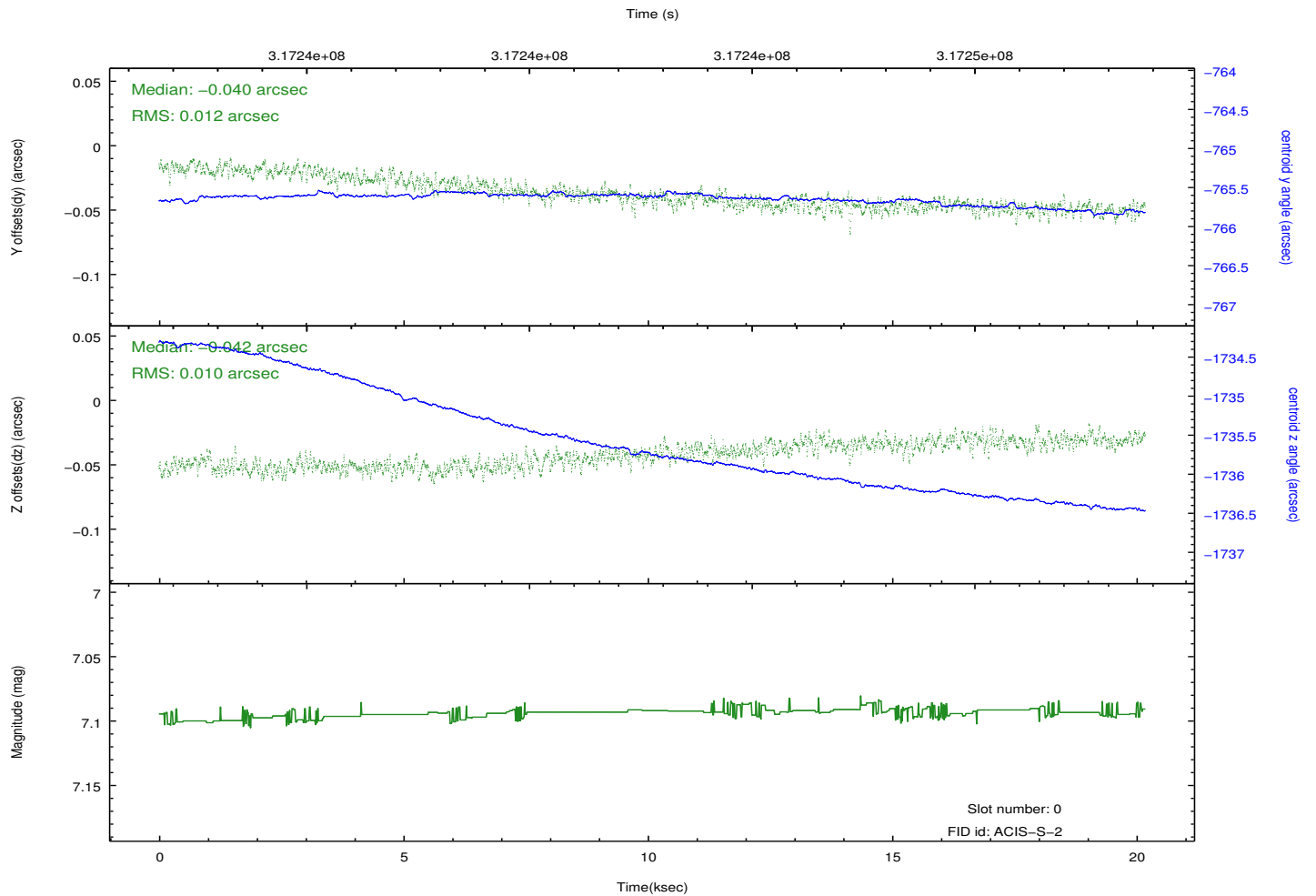
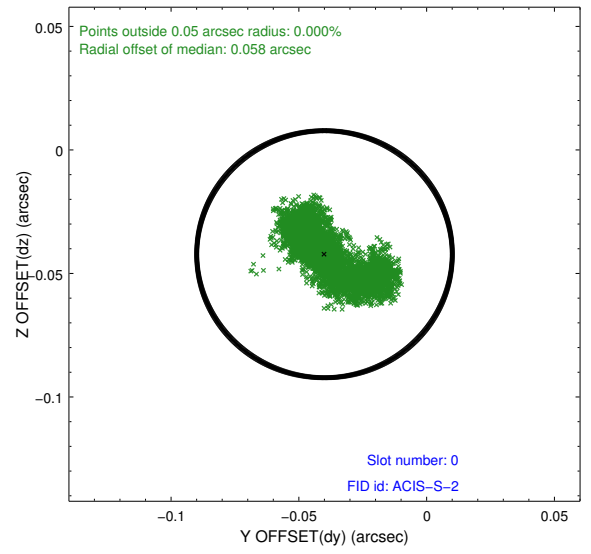
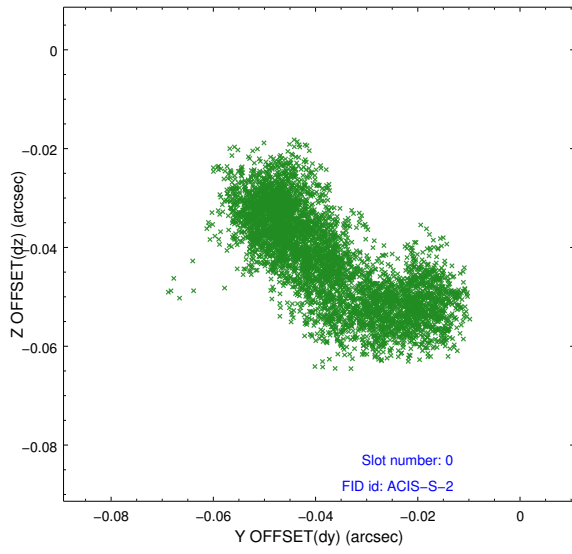


## 2.4.5 Slot 7

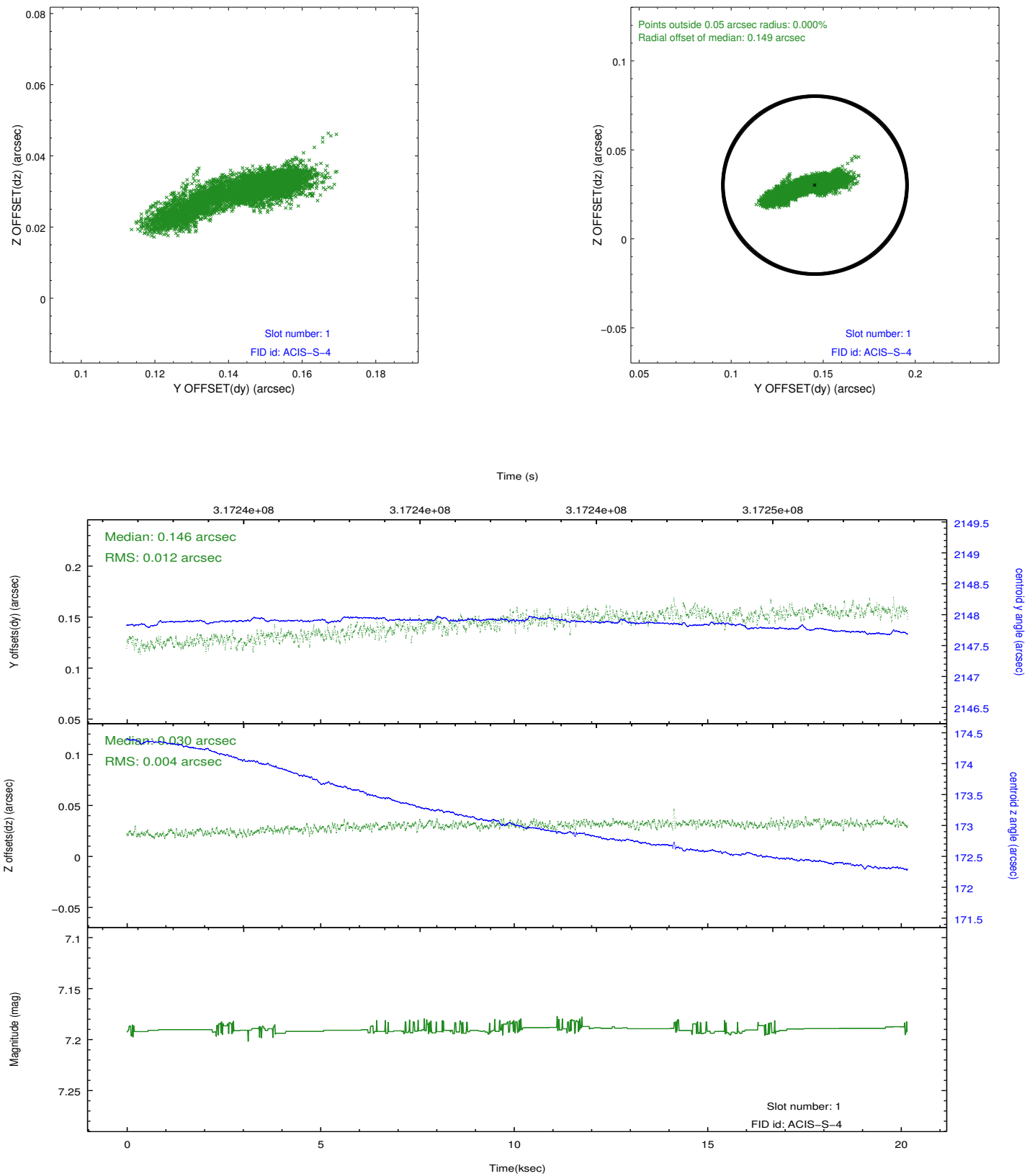


## 2.5 FID Slots

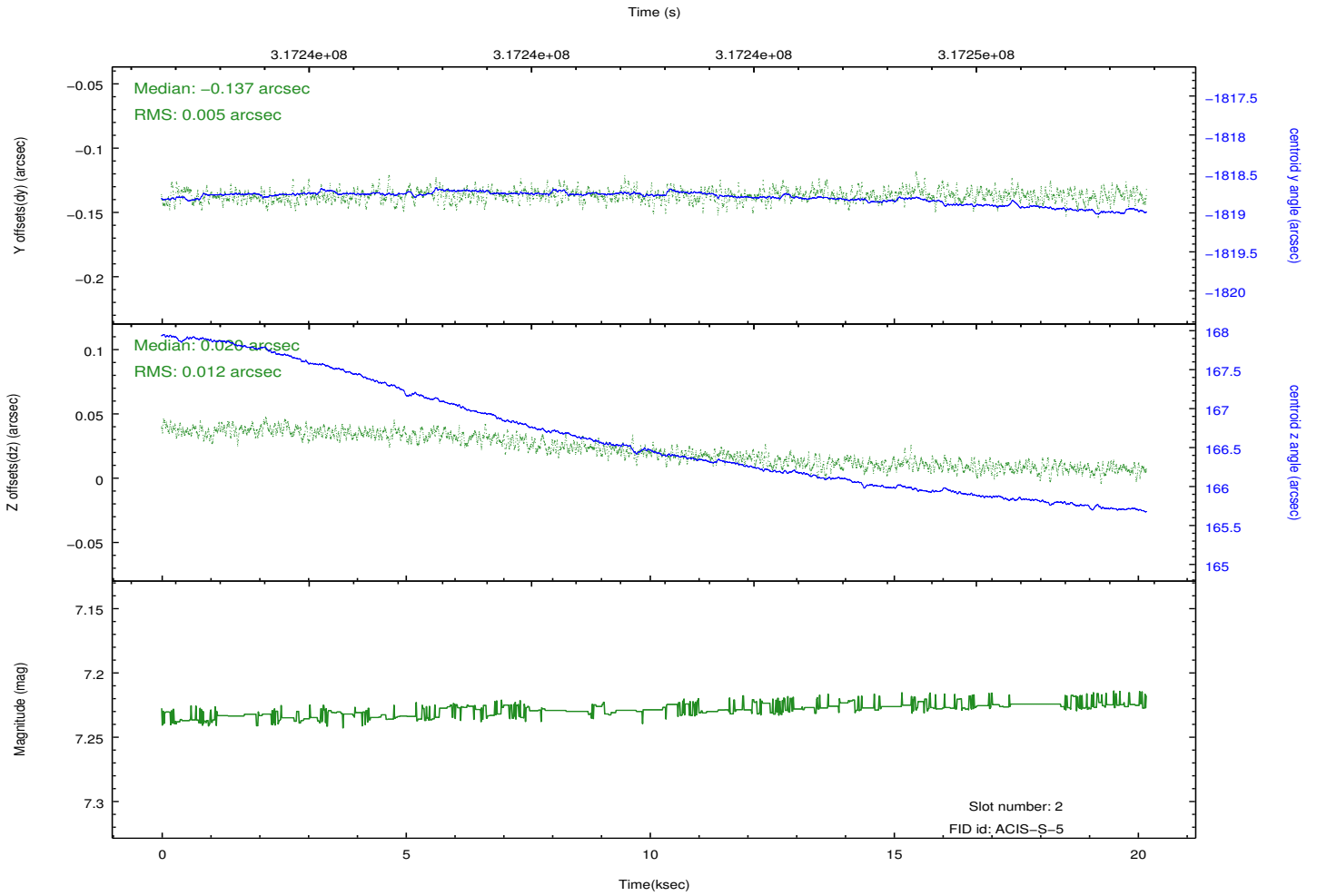
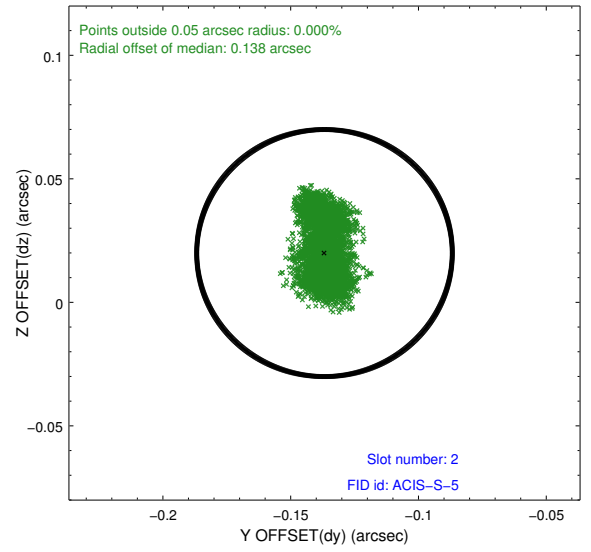
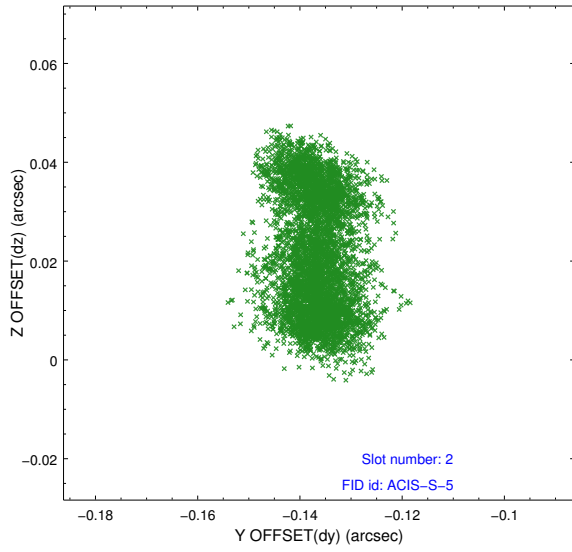
### 2.5.1 Slot 0



## 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)	2012.05.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.1779001

## A.2 Comments