

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 10510 - L2 Version 2  
Chandra X-Ray Center

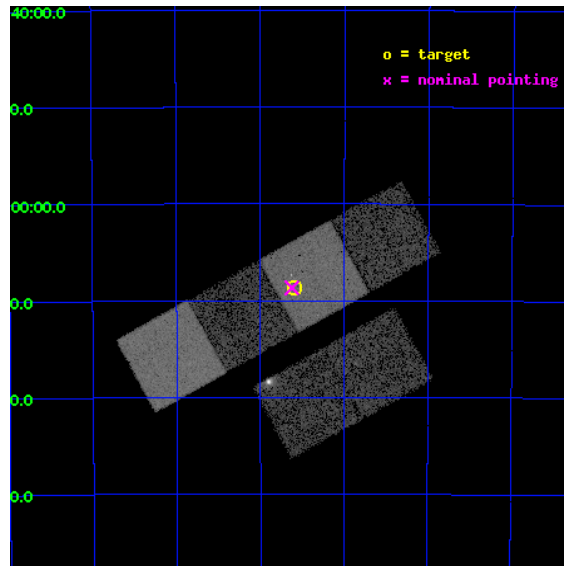
L2 Processing Date : Jun 8 2012

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# 1 Front

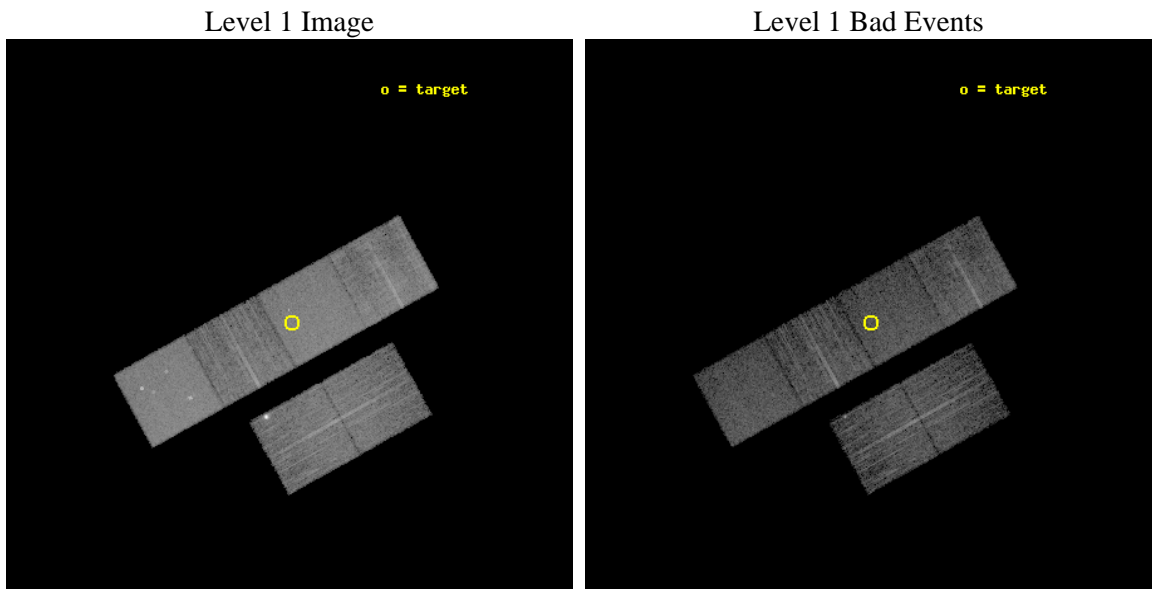
seq_num	900878	Sequence number
obs_id	10510	Observation id
title	ChIcAGO: Chandra Identification of ASCA Galactic Objects	Proposal
observer	Prof. Bryan Gaensler	Principal investigator
object	AX J155035-5408	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	237.647917	Observer's specified target RA [deg]
dec_targ	-54.145	Observer's specified target Dec [deg]
ra_nom	237.65596730878	Nominal RA [deg]
dec_nom	-54.144700714308	Nominal Dec [deg]
roll_nom	331.00625656218	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5443.1999797821	Sum of GTIs [s]
livetime	5374.2749041366	Livetime [s]
ontime2	5443.1999797821	Sum of GTIs [s]
ontime3	5443.1999797821	Sum of GTIs [s]
ontime5	5443.1999797821	Sum of GTIs [s]
ontime6	5439.9589394331	Sum of GTIs [s]
ontime7	5443.1999797821	Sum of GTIs [s]
ontime8	5443.1999797821	Sum of GTIs [s]
l2events	102444	Number of level 2 events



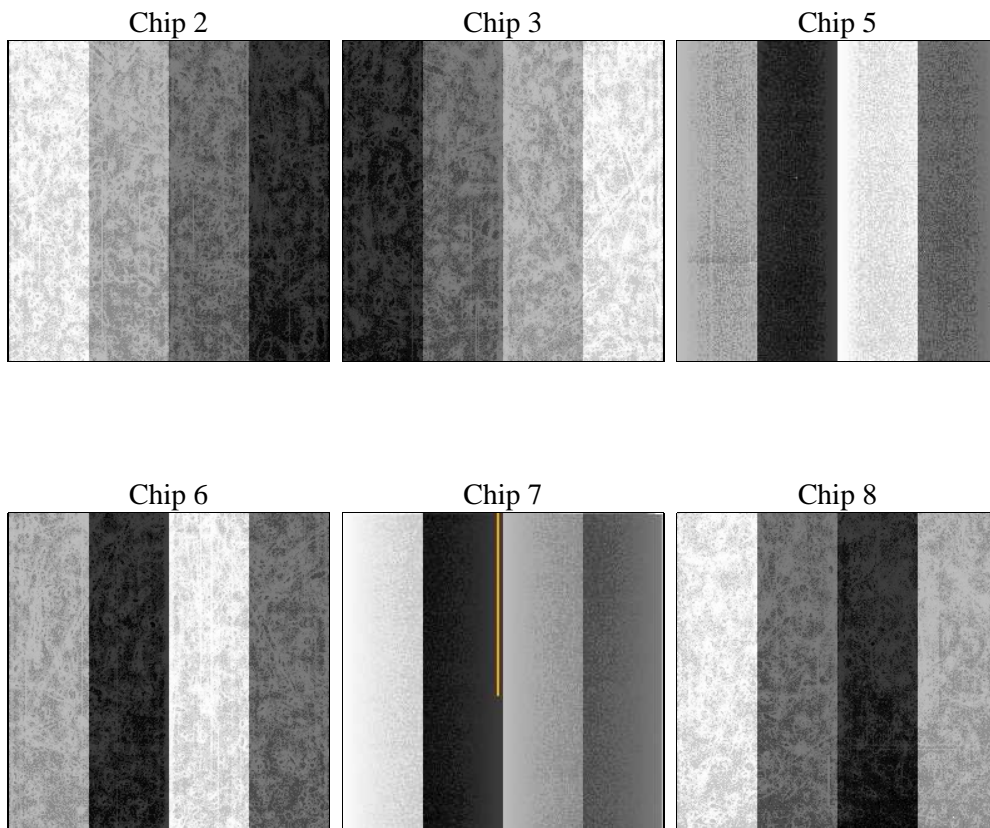
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5300.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5443.1999797821	Sum of GTIs [s]
caldsver	4.4.10	&#160	ontime2	5443.1999797821	Sum of GTIs [s]
date	2012-06-08T07:55:45	Date and time of file creation	ontime3	5443.1999797821	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	5443.1999797821	Sum of GTIs [s]
			ontime6	5439.9589394331	Sum of GTIs [s]
			ontime7	5443.1999797821	Sum of GTIs [s]
			ontime8	5443.1999797821	Sum of GTIs [s]
			l1events	488955	Number of level 1 events

### 2.1.4 Events

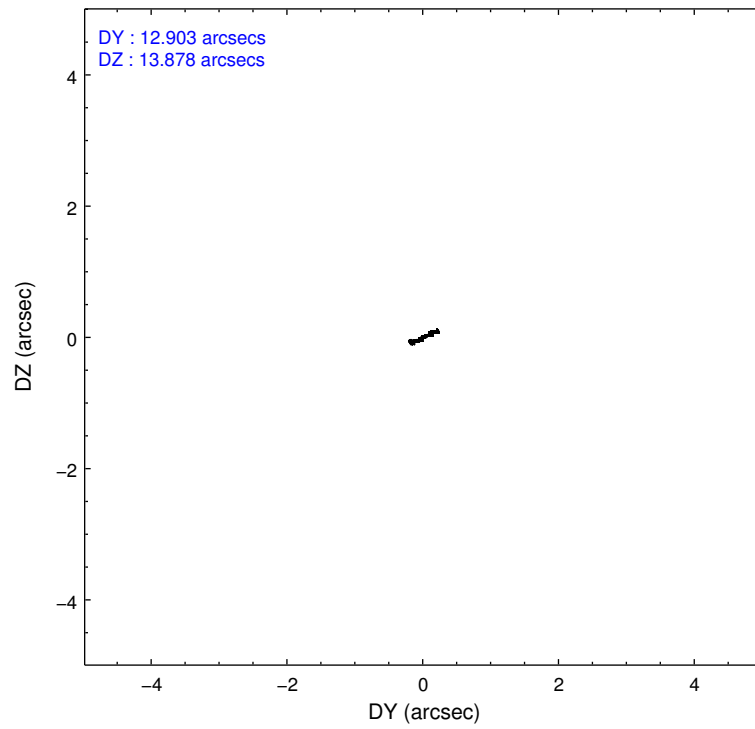
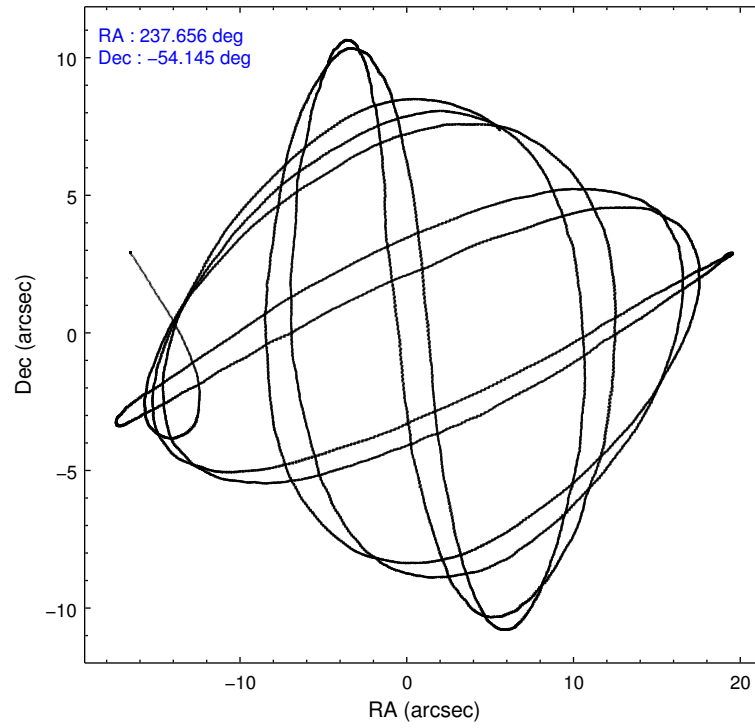
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	74869	63730	104803	67519	93062	84972	grade 0 events	8378	3651	4836	3322	3425	6343
rejected events	61521	56677	63148	60372	59632	67964		11%	5%	4%	4%	3%	7%
rejected %	82%	88%	60%	89%	64%	79%	grade 1 events	133	36	170	37	110	74
								0%	0%	0%	0%	0%	0%
							grade 2 events	2604	1673	15049	1882	8172	4401
								3%	2%	14%	2%	8%	5%
							grade 3 events	1034	710	1615	784	3231	2063
								1%	1%	1%	1%	3%	2%
							grade 4 events	1015	741	1582	783	3293	1950
								1%	1%	1%	1%	3%	2%
							grade 5 events	2777	3142	7387	3230	8633	4368
								3%	4%	7%	4%	9%	5%
							grade 6 events	1756	1459	25502	1568	20870	4997
								2%	2%	24%	2%	22%	5%
							grade 7 events	57172	52318	48662	55913	45328	60776
								76%	82%	46%	82%	48%	71%

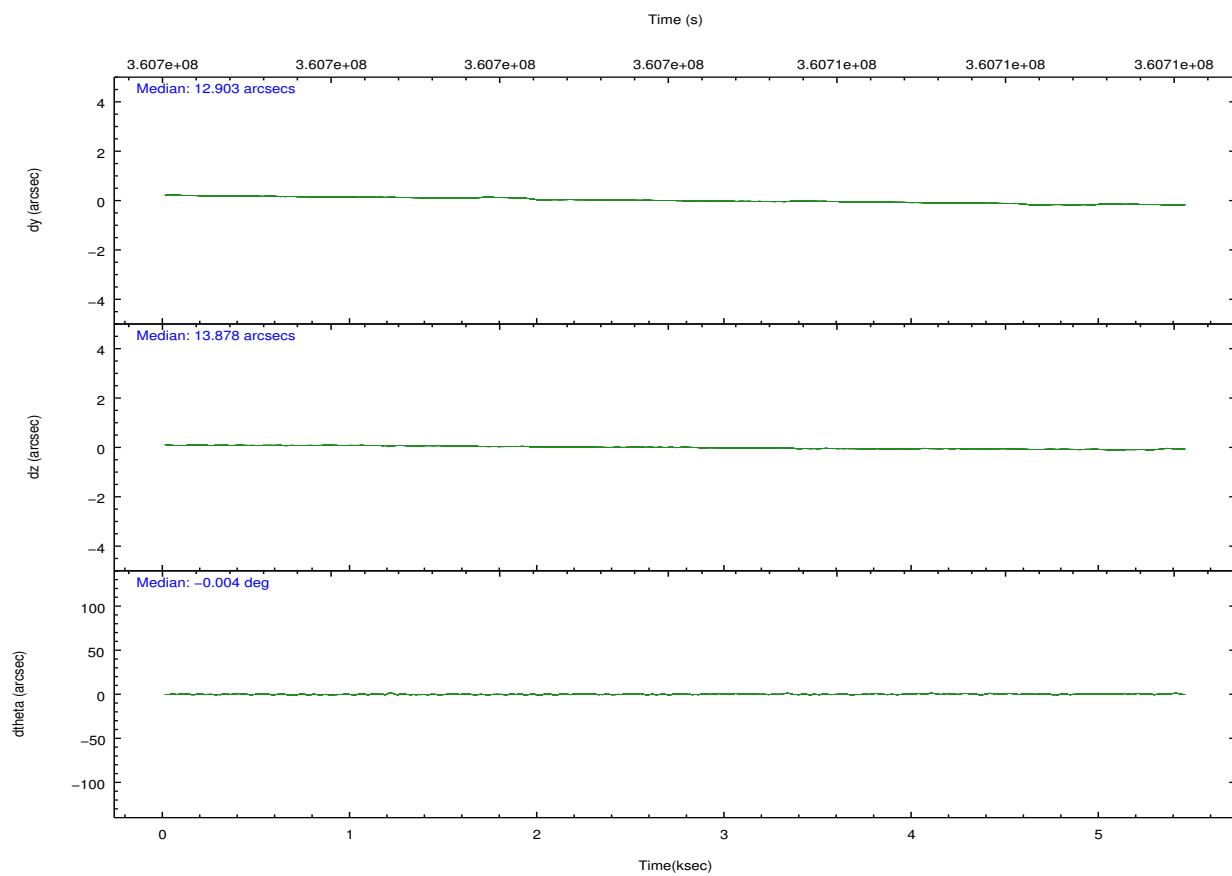
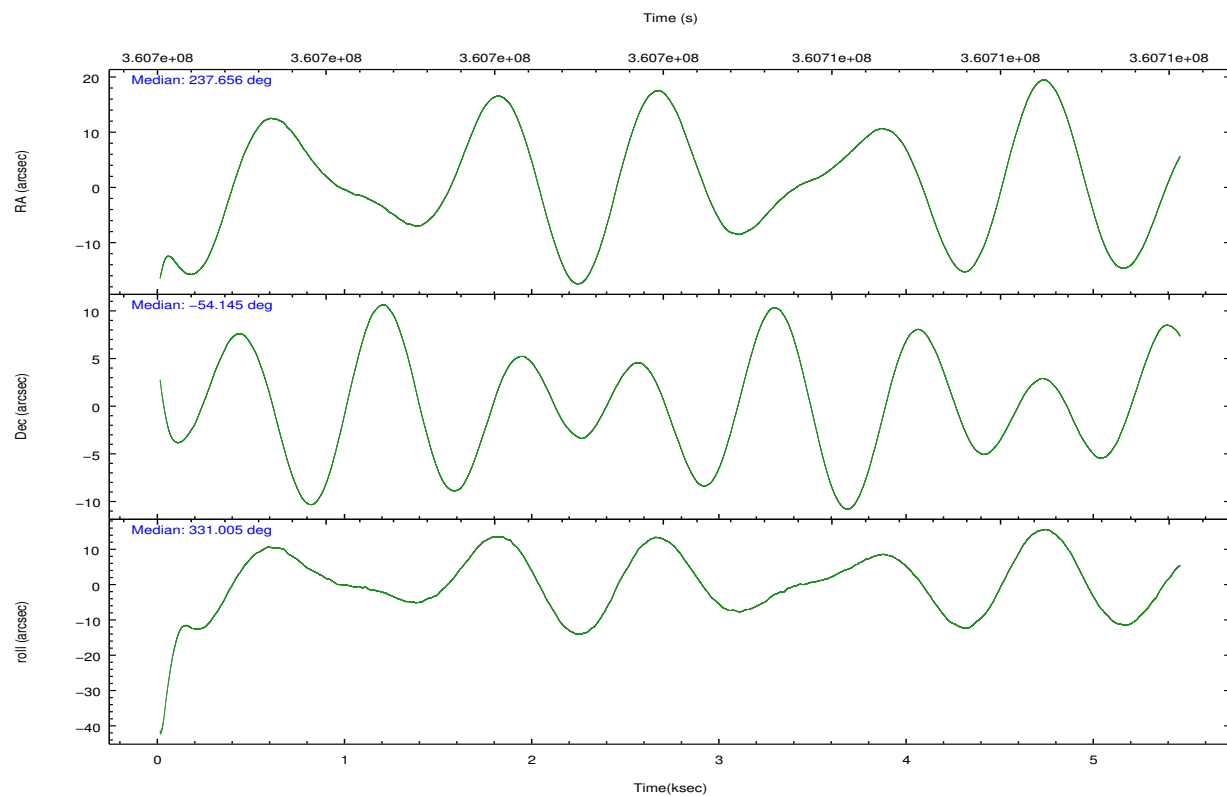


## 2.2 Compared Parameters

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	237.609533	237.6559673087813	CCD I2 on	O2	Y
[deg] Pointing Dec	-54.145631	-54.14470071430778	CCD I3 on	O3	Y
[deg] Pointing Roll	330.812057	331.0062565621848	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	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	O4	Y
[s] Observation start time (MET)	360702468.184000	360700955.89562	CCD S5 on	N	N
Observation start date	2009-06-06T19:06:42	2009-06-06T18:42:35	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	360707768.184000	360708074.52097	On-chip summing requested	N	N
Observation end date	2009-06-06T20:35:02	2009-06-06T20:41:14	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



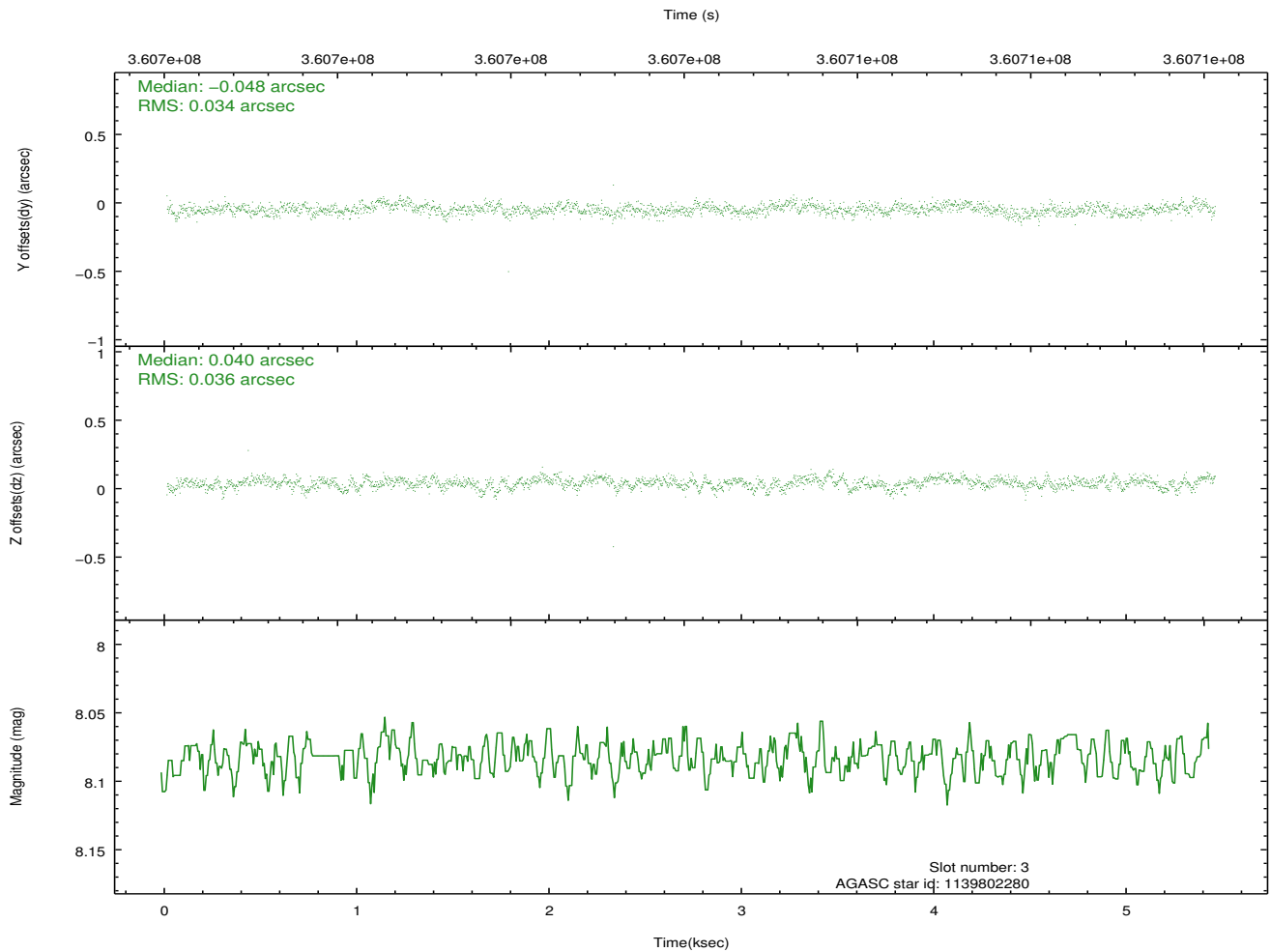
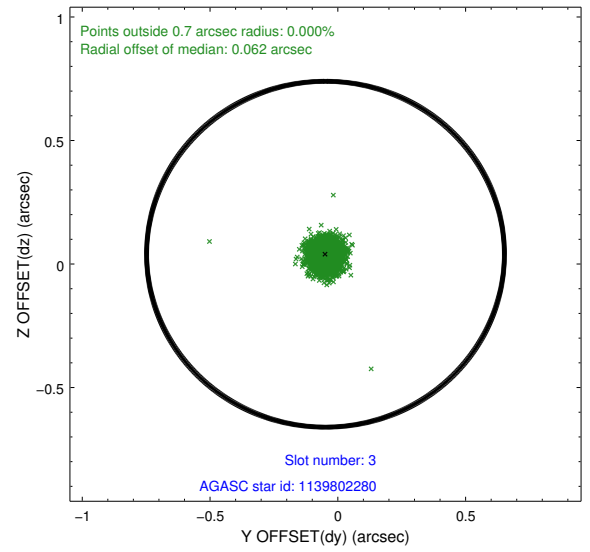
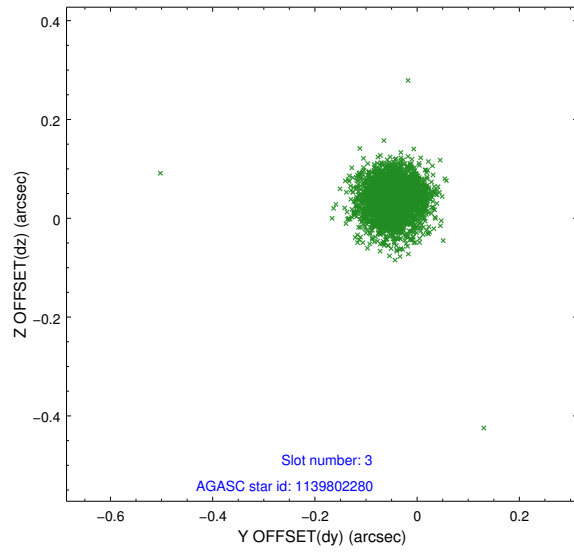


### Slot Statistics

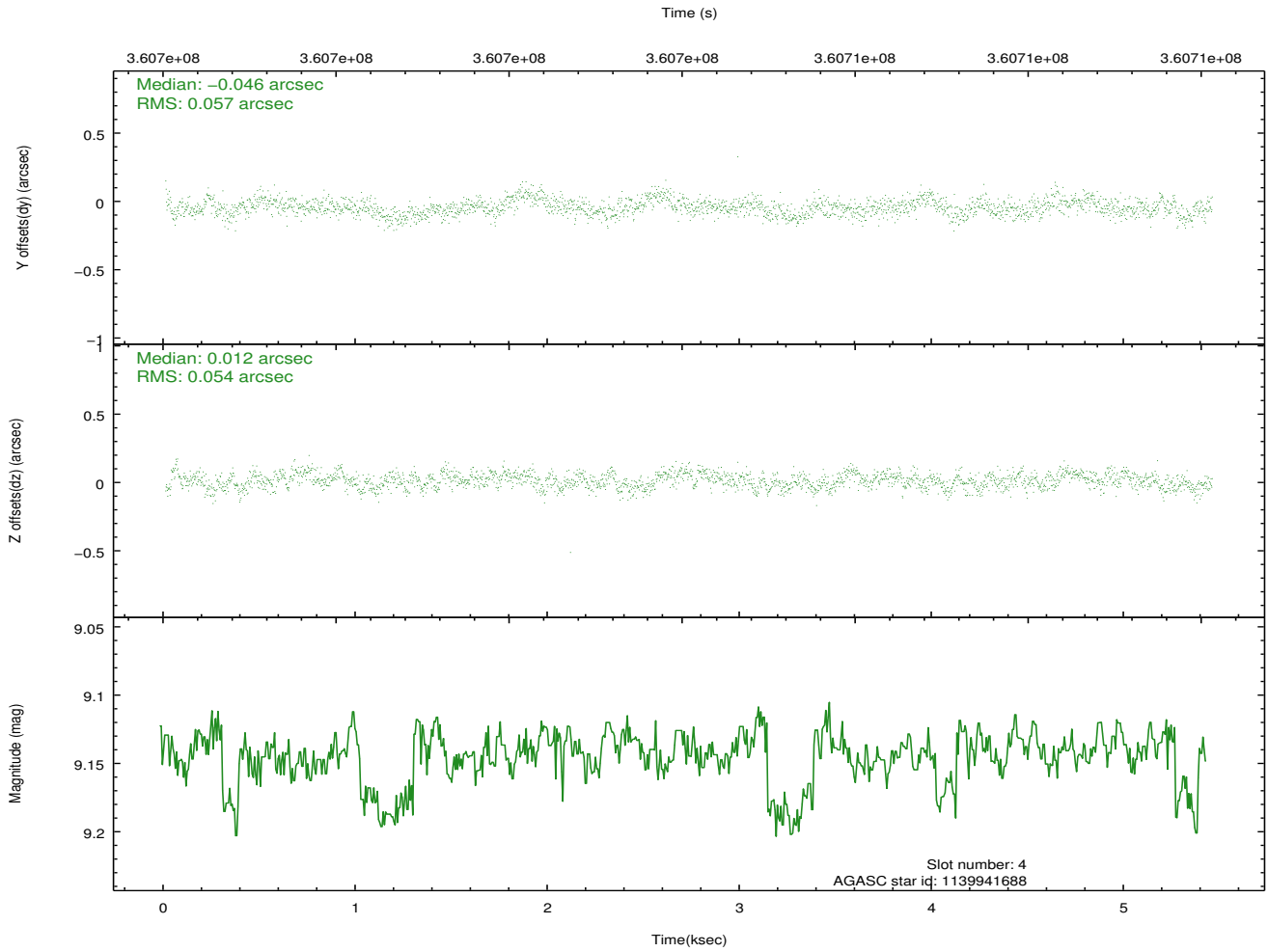
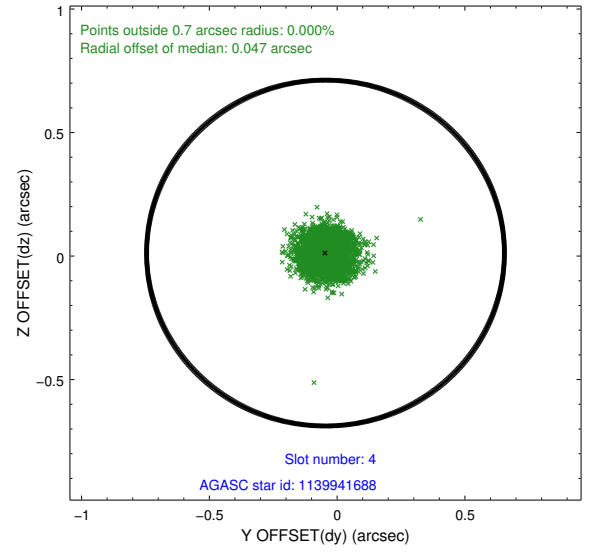
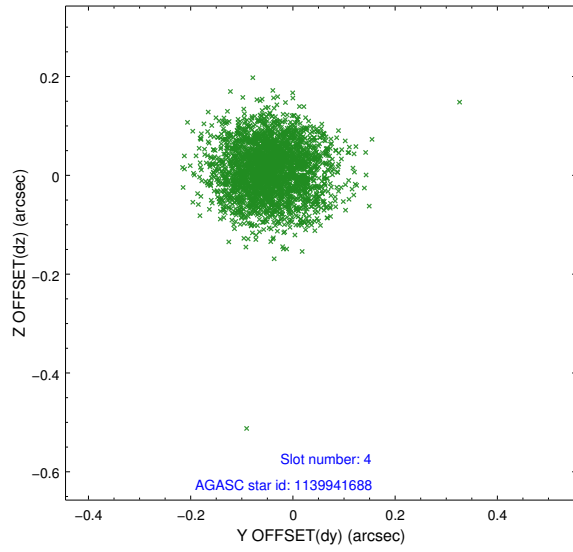
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.96	1329	-0.040	-0.055	0.008	0.013	0.000000	0.000000	-765.86	-1735.29
1	FID	ACIS-S-4	7.05	1329	0.175	0.034	0.011	0.020	0.000000	0.000000	2147.12	172.16
2	FID	ACIS-S-5	7.09	1329	-0.167	0.030	0.008	0.014	0.000000	0.000000	-1817.42	167.06
3	GUIDE	1139802280	8.08	2657	-0.048	0.040	0.051	0.083	236.525595	-54.011505	-2227.74	-712.06
4	GUIDE	1139941688	9.14	2653	-0.046	0.012	0.083	0.132	238.371800	-54.158507	1429.86	734.91
5	GUIDE	1139945912	9.12	2653	0.082	-0.045	0.099	0.162	238.361289	-54.201826	1486.36	588.47
6	GUIDE	1140334872	9.07	2653	0.054	-0.039	0.088	0.143	236.234092	-54.377223	-2095.80	-2158.56
7	GUIDE	1140462520	8.15	2658	-0.037	0.041	0.059	0.099	237.718666	-54.642458	1071.05	-1451.33

## 2.4 Star Slots

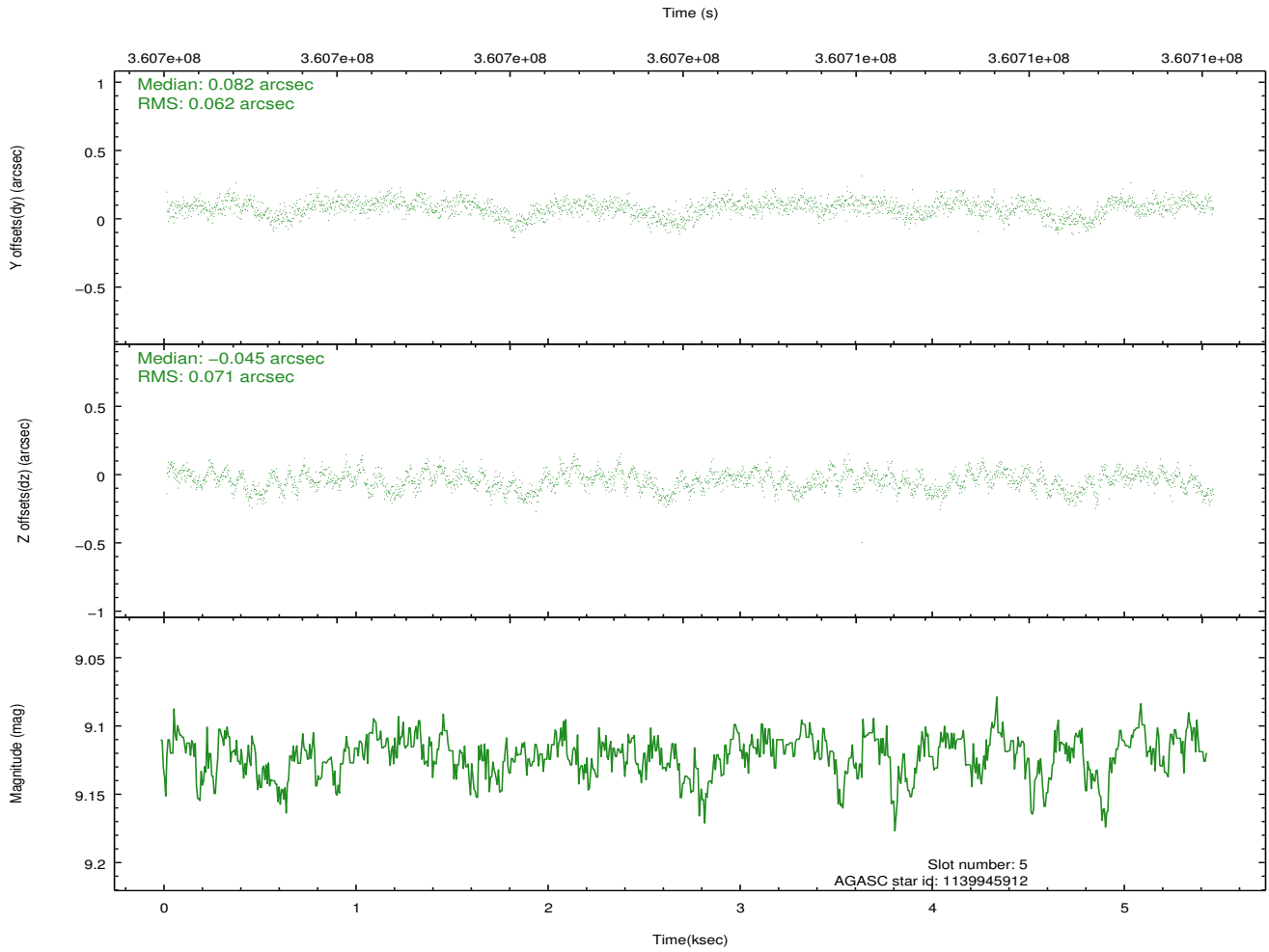
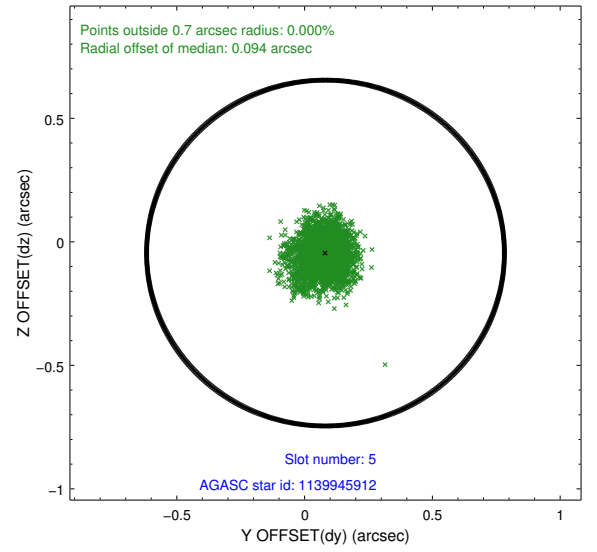
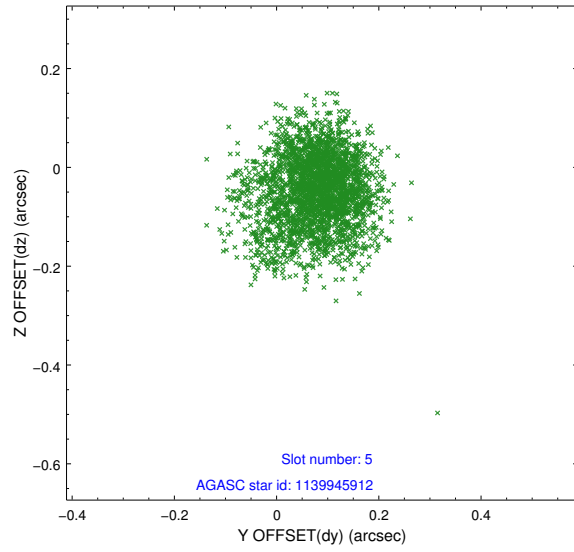
### 2.4.1 Slot 3



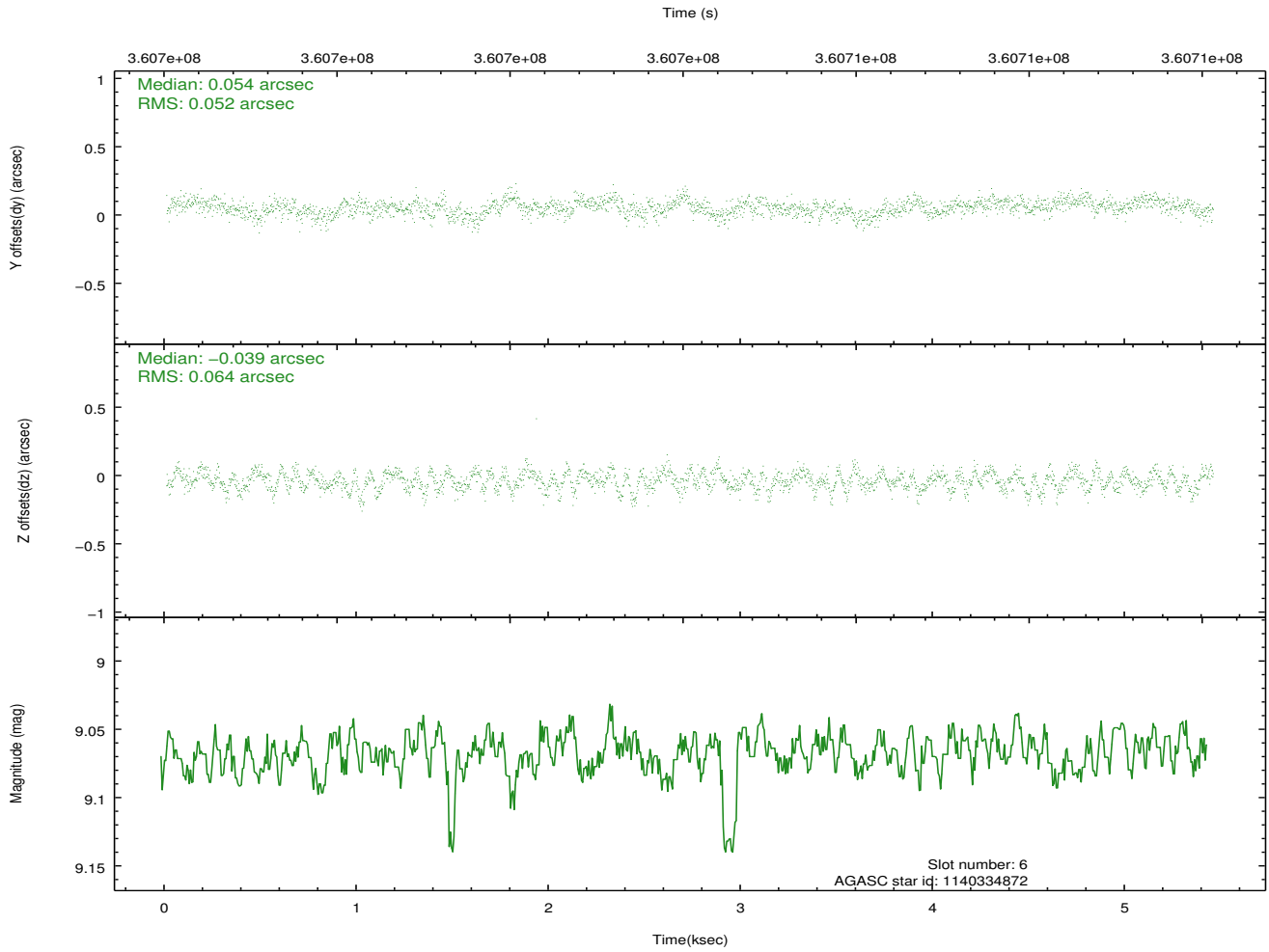
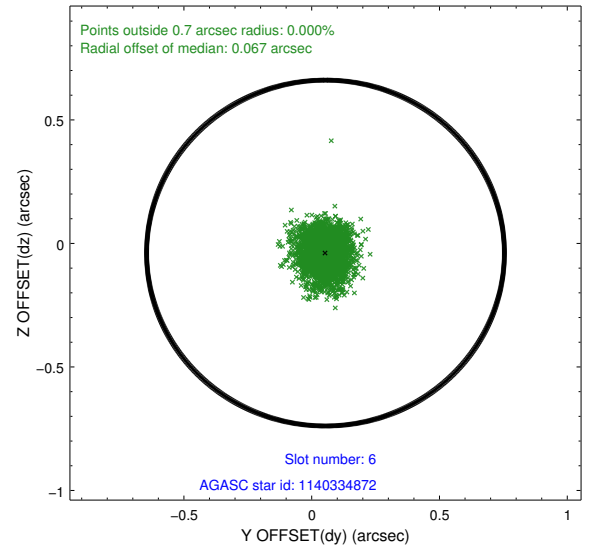
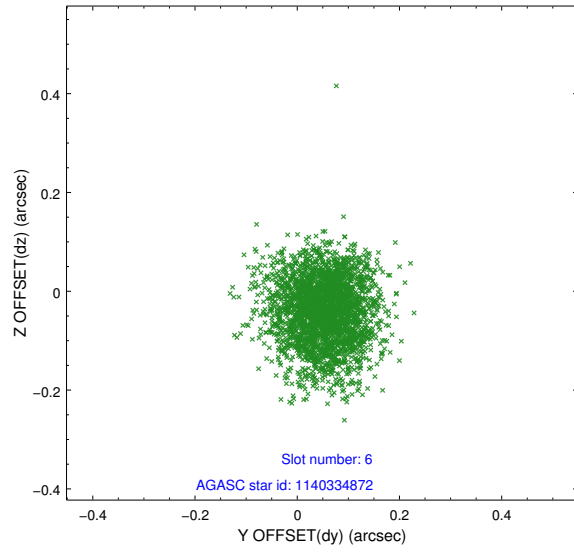
## 2.4.2 Slot 4



### 2.4.3 Slot 5

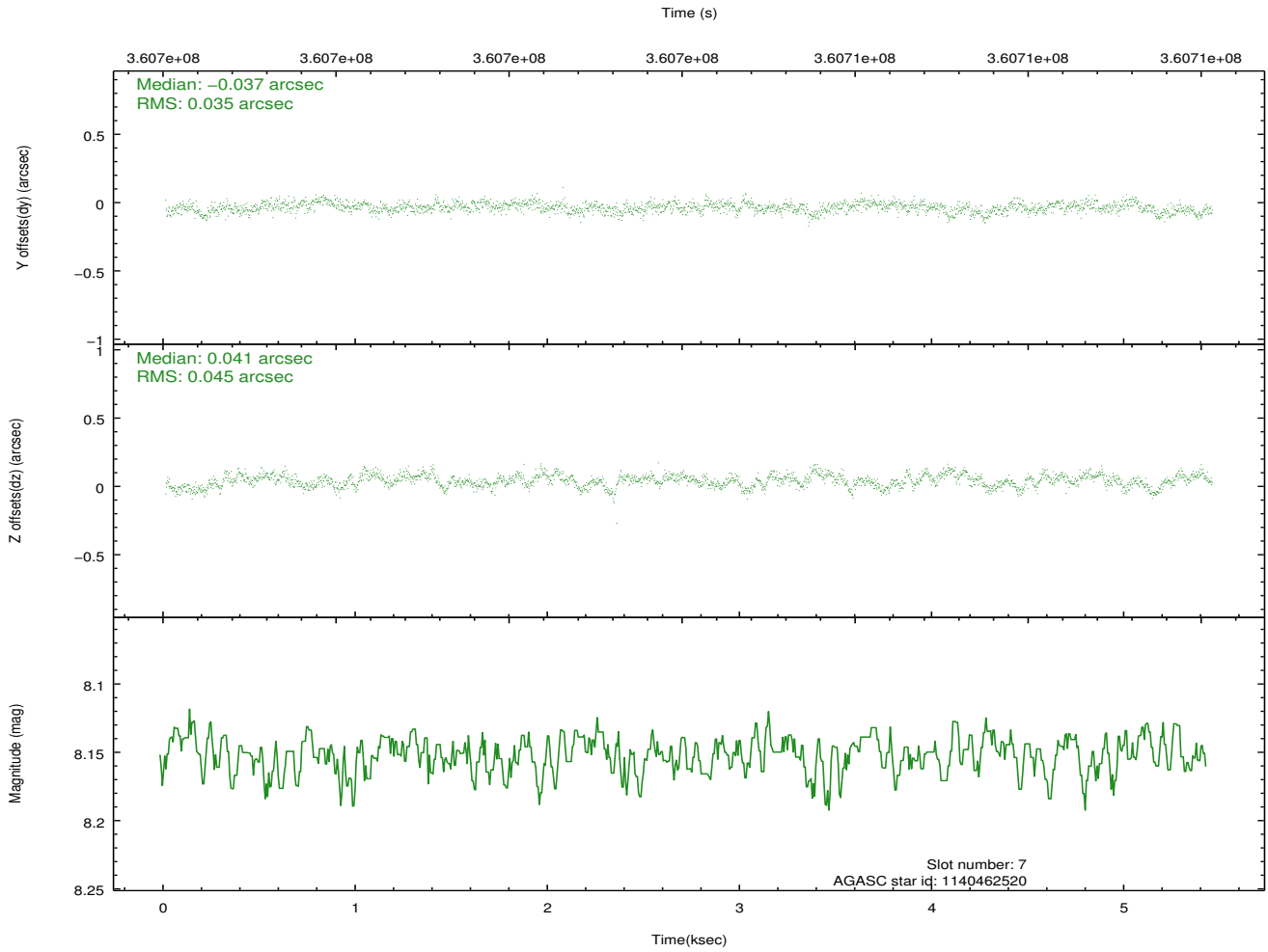
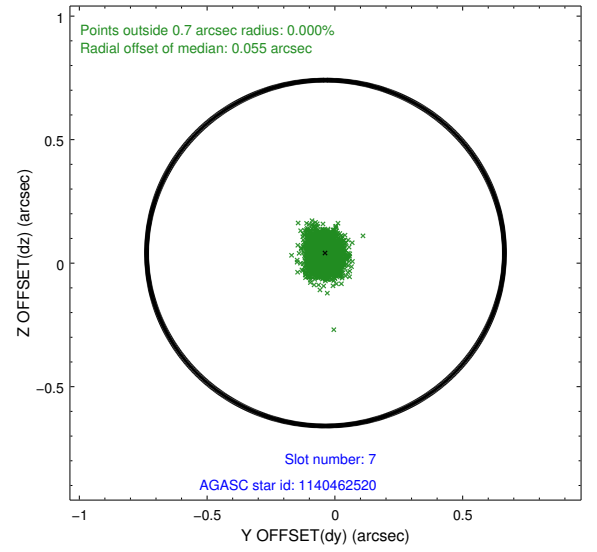
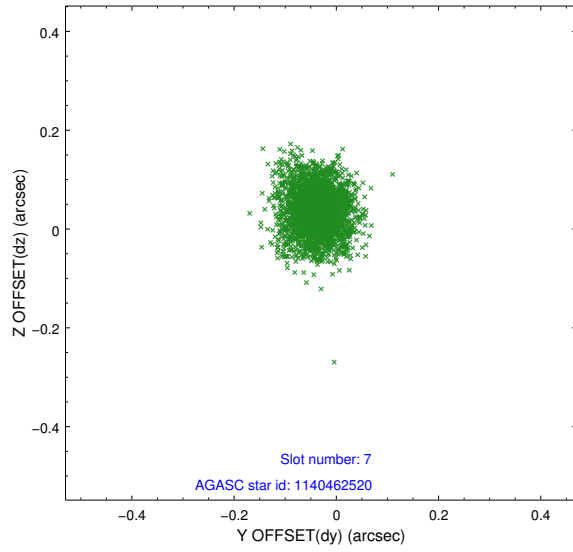


## 2.4.4 Slot 6



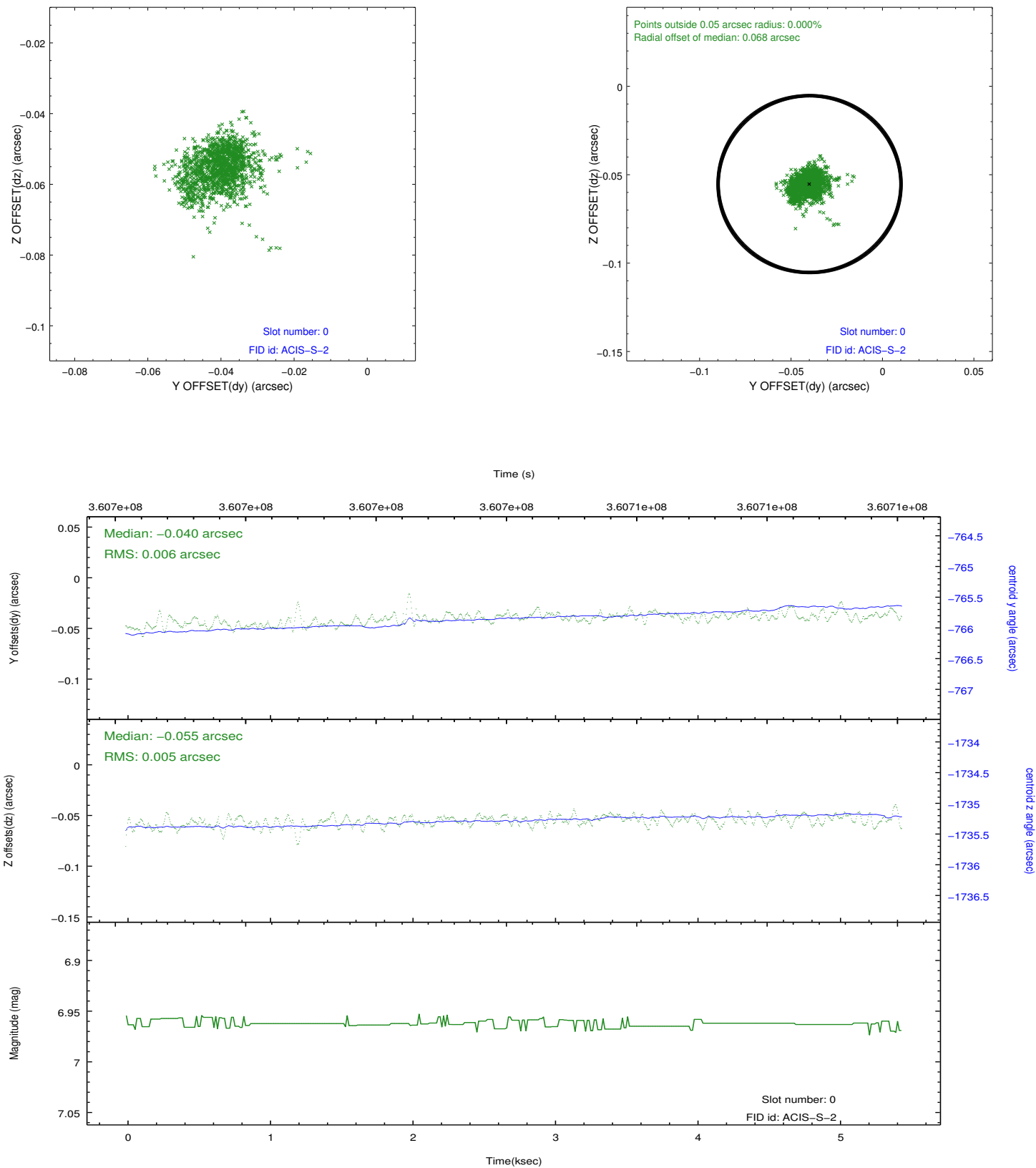


## 2.4.5 Slot 7

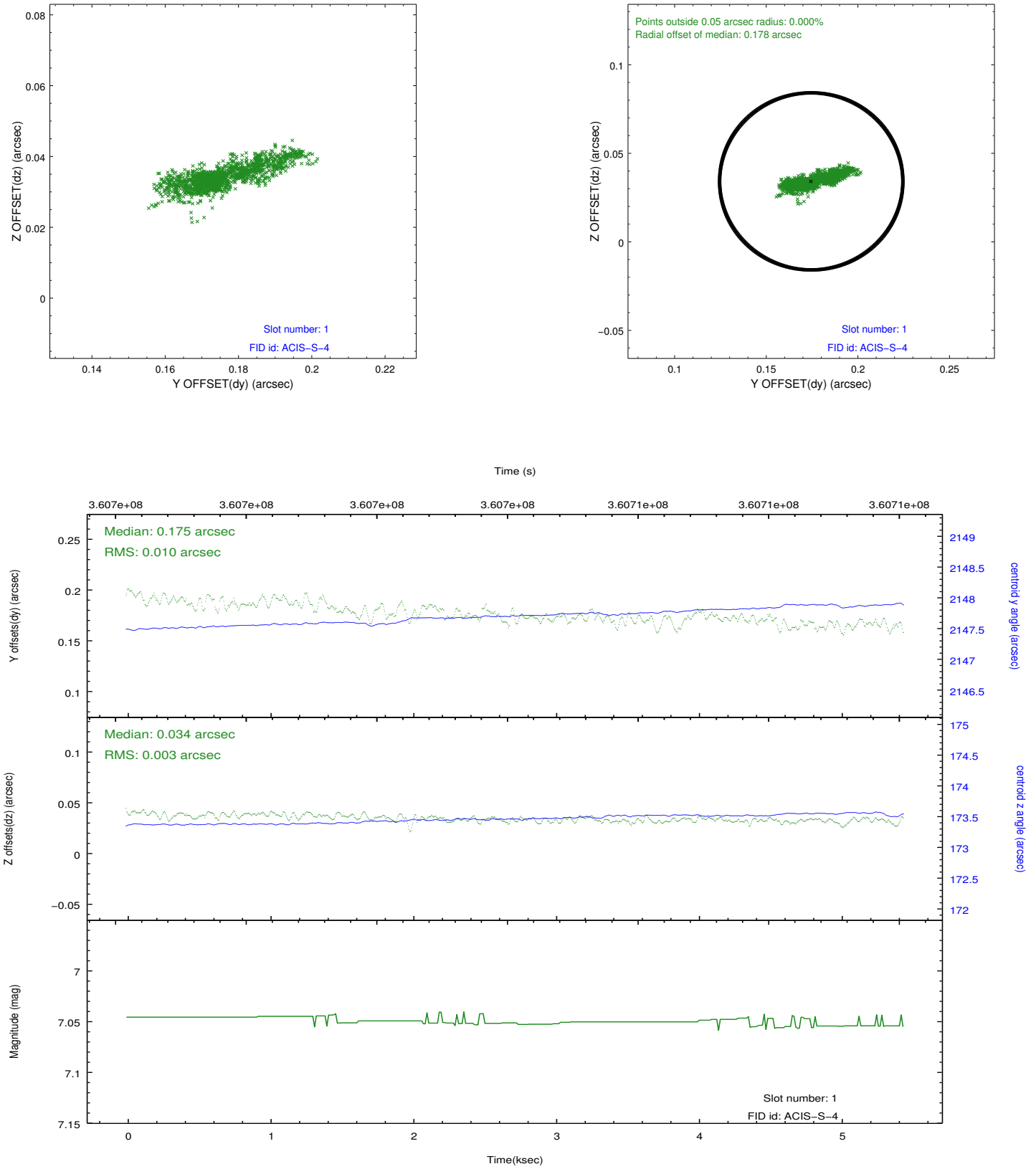


## 2.5 FID Slots

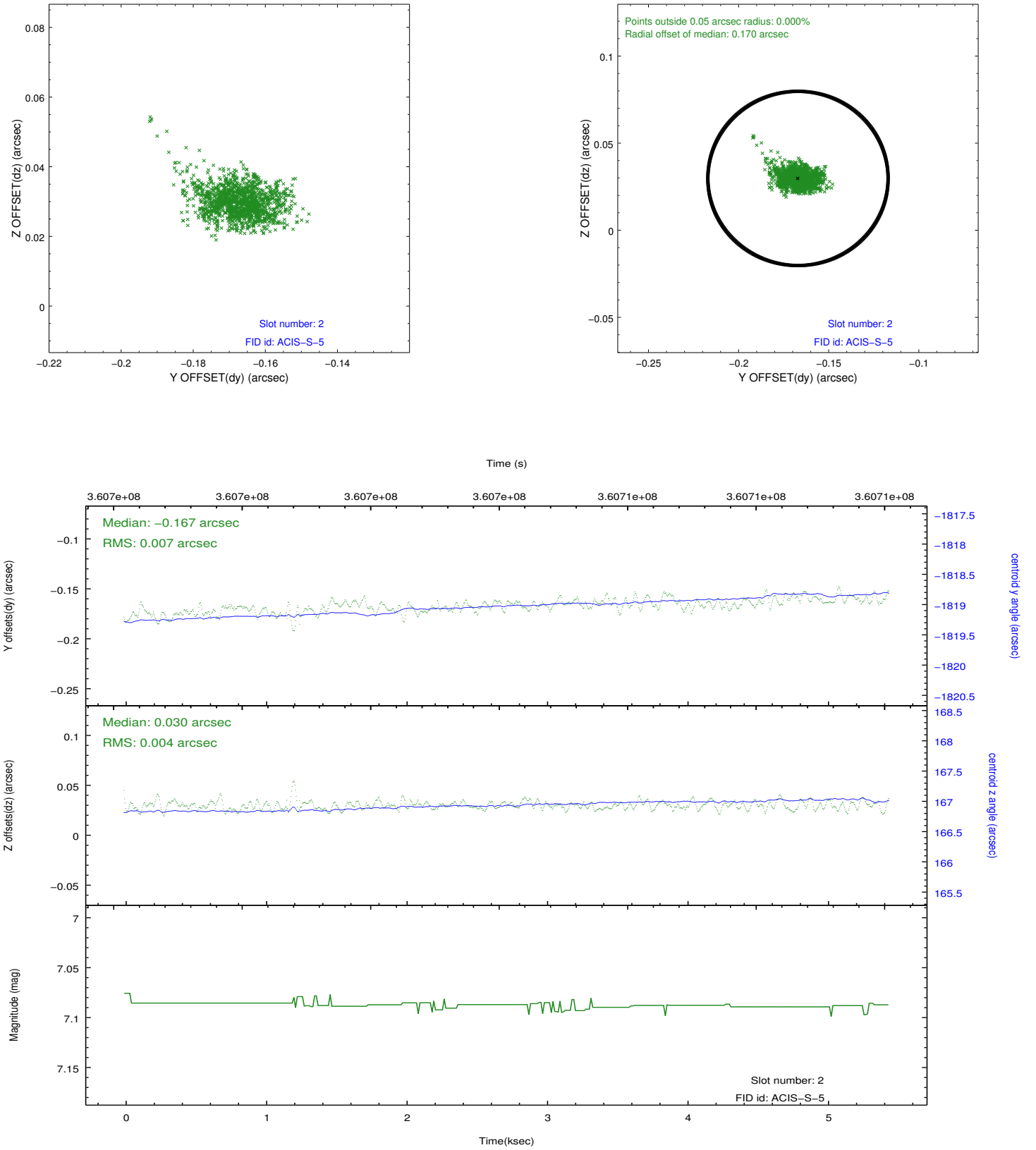
### 2.5.1 Slot 0



## 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)	2012.06.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.44319997

### A.2 Comments