

# V&V Reference Report

## L2 ASCDS Version : 10.4.3

Observation 18093 - L2 Version 1  
Chandra X-Ray Center

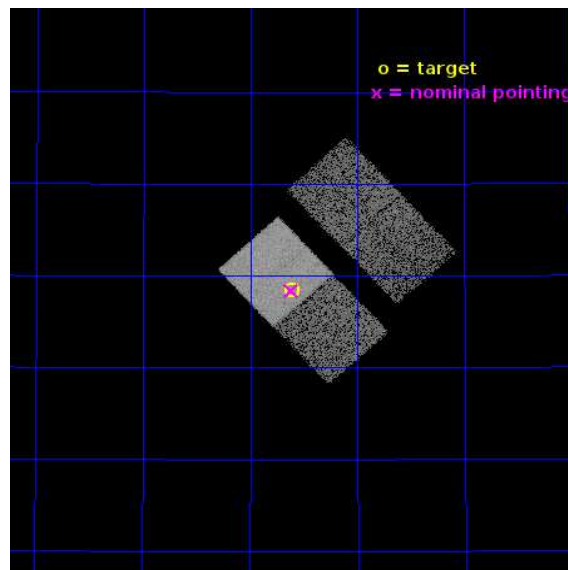
L2 Processing Date : Dec 20 2015

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# 1 Front

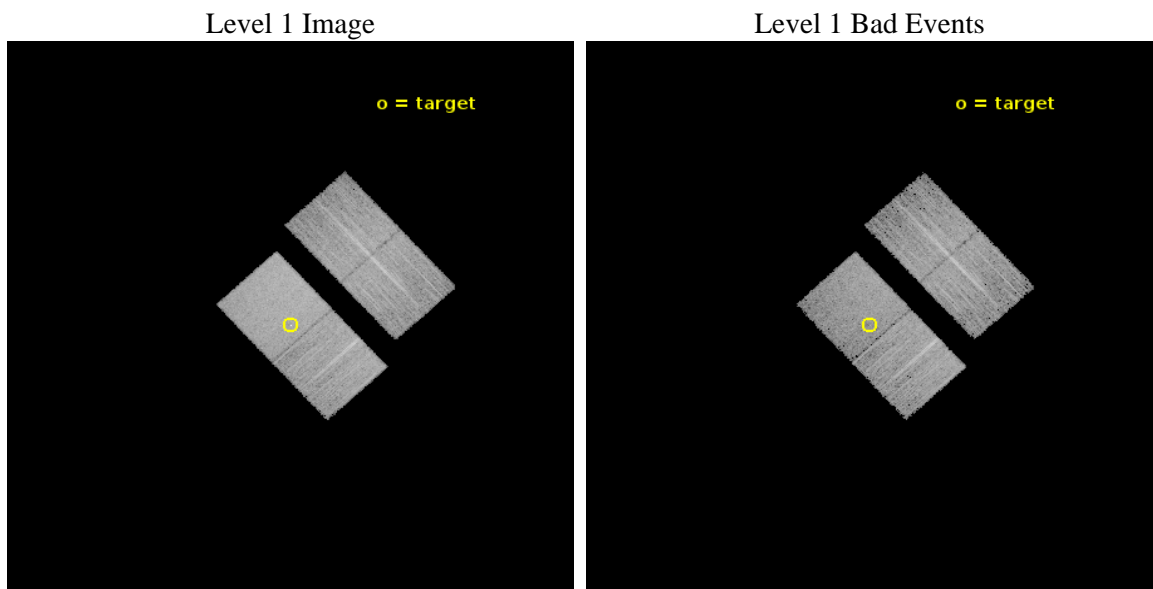
seq_num	703159	Sequence number
obs_id	18093	Observation id
title	Extending the Extragalactic 3CR Chandra Survey to z=1.5	Proposal t
observer	Francesco Massaro	Principal investigator
object	3CR 119	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	68.151667	Observer's specified target RA [deg]
dec_targ	41.641417	Observer's specified target Dec [deg]
ra_nom	68.154042993182	Nominal RA [deg]
dec_nom	41.639803974336	Nominal Dec [deg]
roll_nom	227.33965419314	Nominal Roll [deg]
revision	1	Processing version of data
ontime	12062.100092888	Sum of GTIs [s]
livetime	11904.499875185	Livetime [s]
ontime2	12062.100092888	Sum of GTIs [s]
ontime3	12062.100092888	Sum of GTIs [s]
ontime6	12062.100092888	Sum of GTIs [s]
ontime7	12062.100092888	Sum of GTIs [s]
l2events	56894	Number of level 2 events



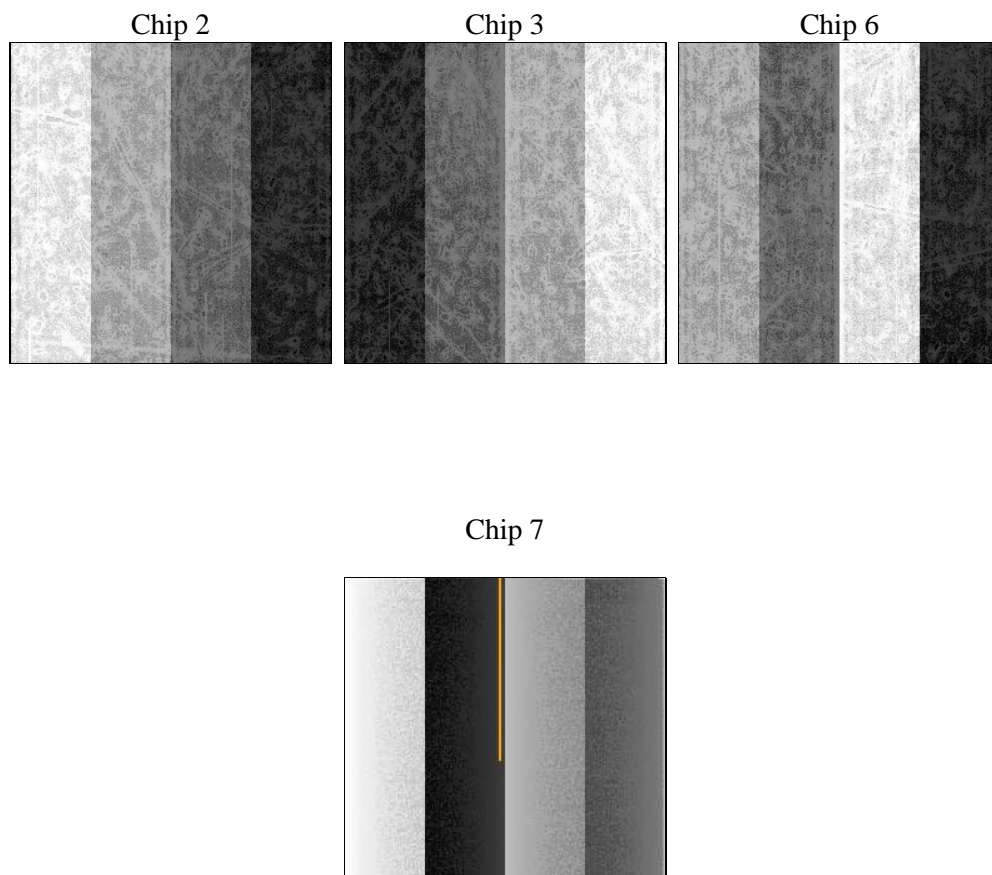
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	12000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3	Processing system revision	ontime	12062.100092888	Sum of GTIs [s]
caldbver	4.7.0	&#160	ontime2	12062.100092888	Sum of GTIs [s]
date	2015-12-20T19:48:47	Date and time of file creation	ontime3	12062.100092888	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	12062.100092888	Sum of GTIs [s]
			ontime7	12062.100092888	Sum of GTIs [s]
			l1events	288772	Number of level 1 events

### 2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	65012	61867	72396	89497
rejected events	57902	54788	64531	50901
rejected %	89%	88%	89%	56%

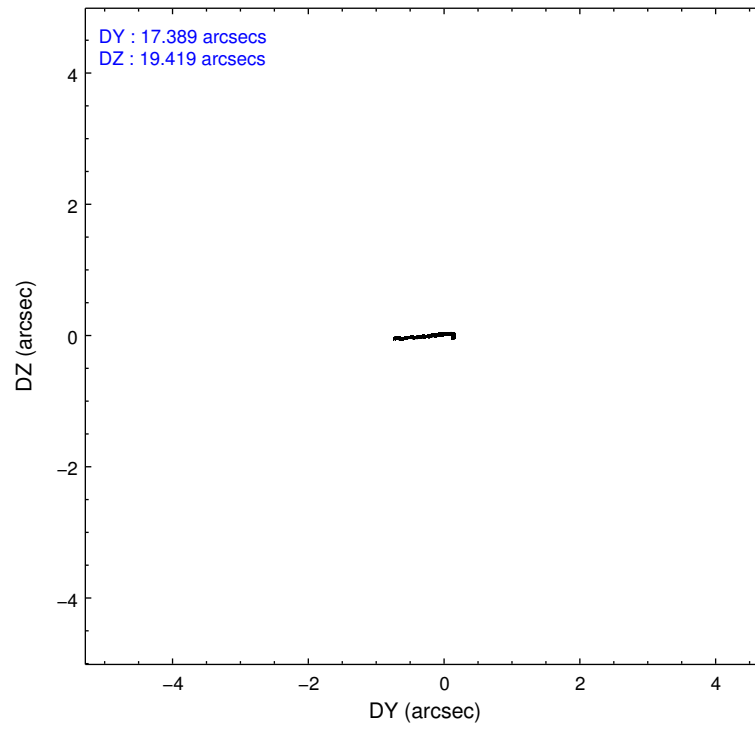
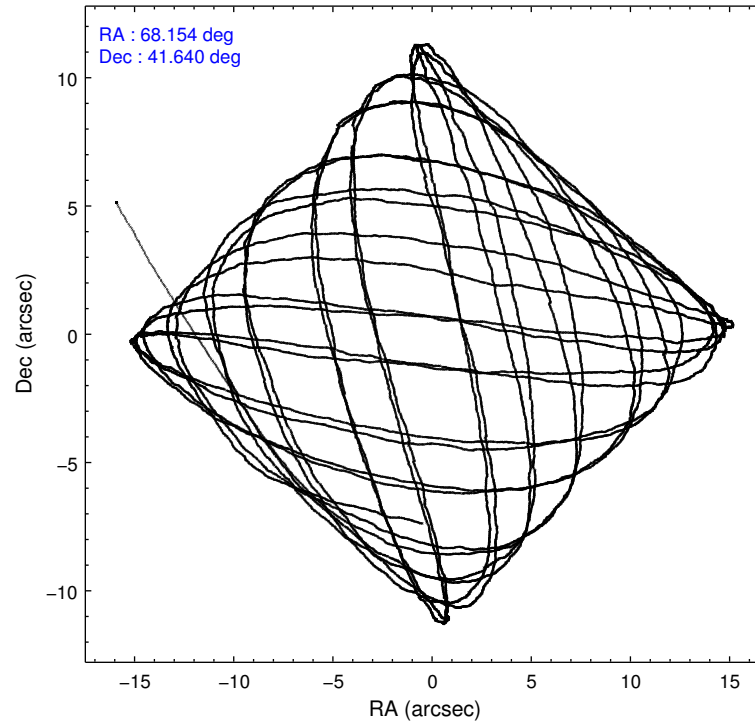
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	2509	2484	2557	3190
	3%	4%	3%	3%
grade 1 events	39	35	35	105
	0%	0%	0%	0%
grade 2 events	1698	1492	1787	8170
	2%	2%	2%	9%
grade 3 events	750	798	830	2993
	1%	1%	1%	3%
grade 4 events	754	737	781	3024
	1%	1%	1%	3%
grade 5 events	2816	3253	3324	8739
	4%	5%	4%	9%
grade 6 events	1400	1573	1911	21238
	2%	2%	2%	23%
grade 7 events	55046	51495	61171	42038
	84%	83%	84%	46%

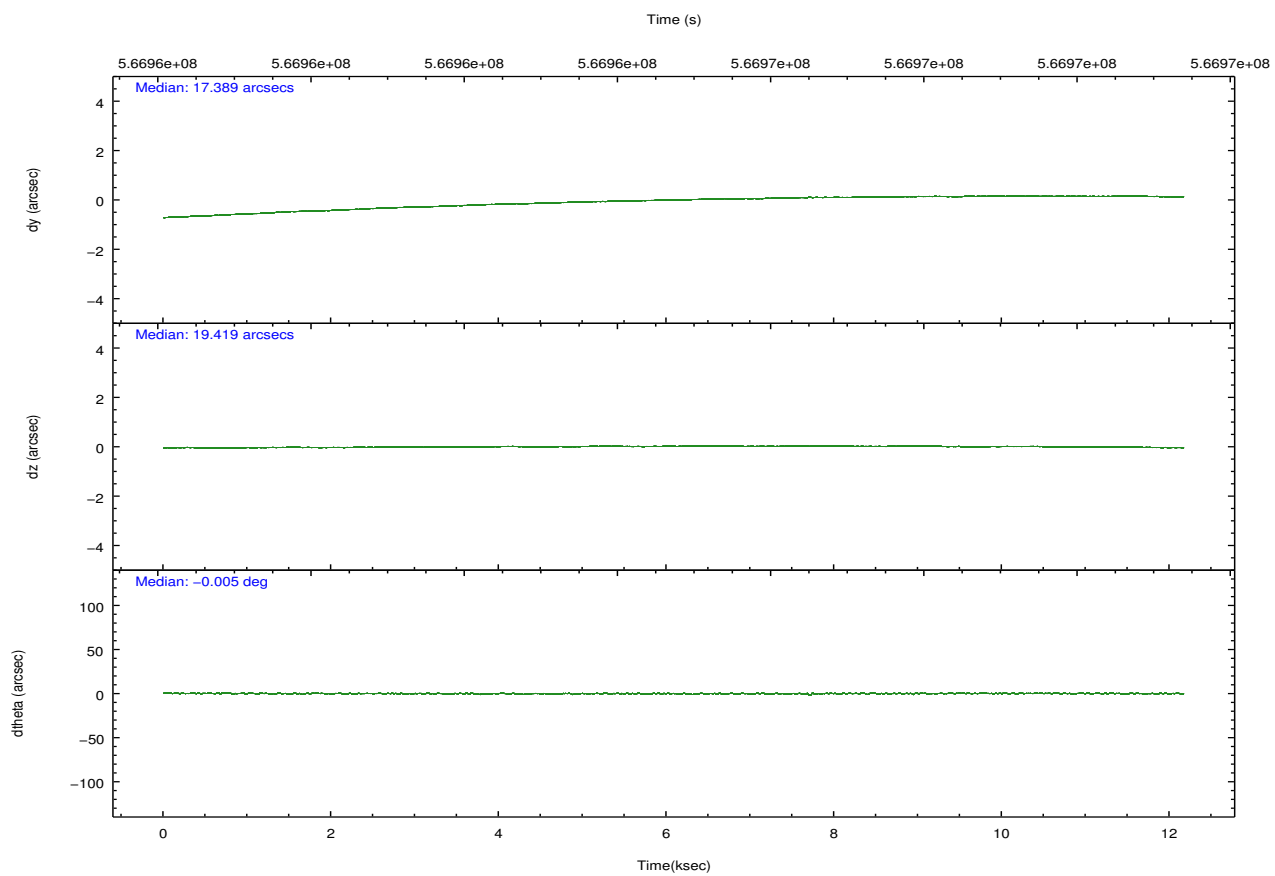
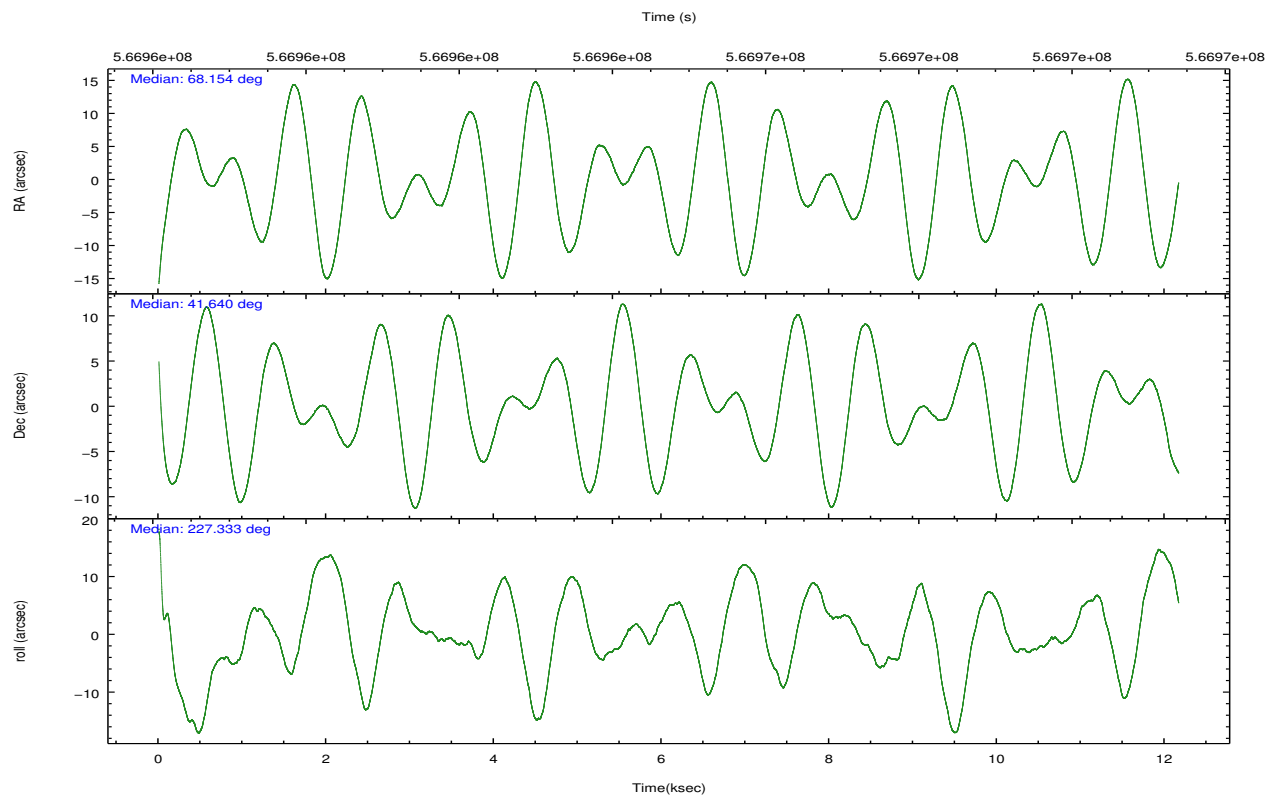


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-2367	ACIS-2367	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	68.161634	68.15404299318244	CCD I2 on	O1	Y
[deg] Pointing Dec	41.666675	41.63980397433643	CCD I3 on	O2	Y
[deg] Pointing Roll	227.177968	227.3396541931351	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	N	N
[s] Observation start time (MET)	566958833.184000	566957591.49359	CCD S5 on	N	N
Observation start date	2015-12-20T00:32:45	2015-12-20T00:13:11	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	566970833.184000	566971691.39439	On-chip summing requested	N	N
Observation end date	2015-12-20T03:52:45	2015-12-20T04:08:11	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



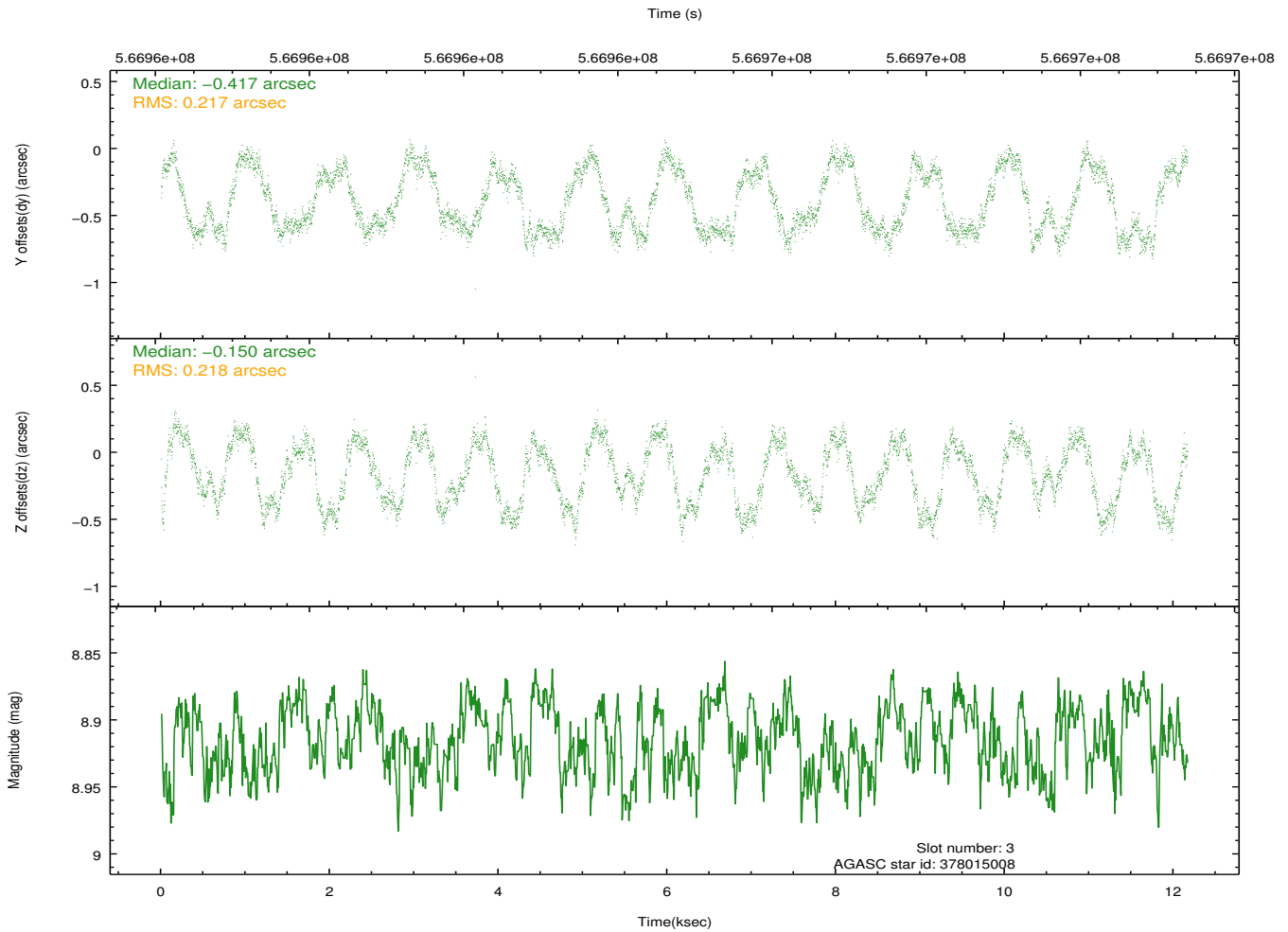
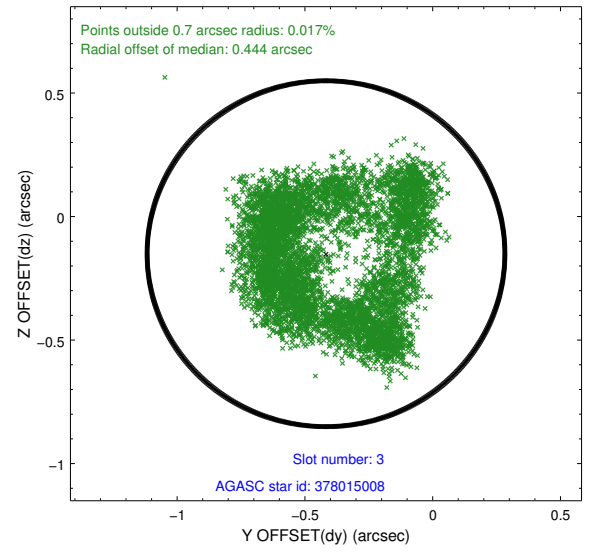
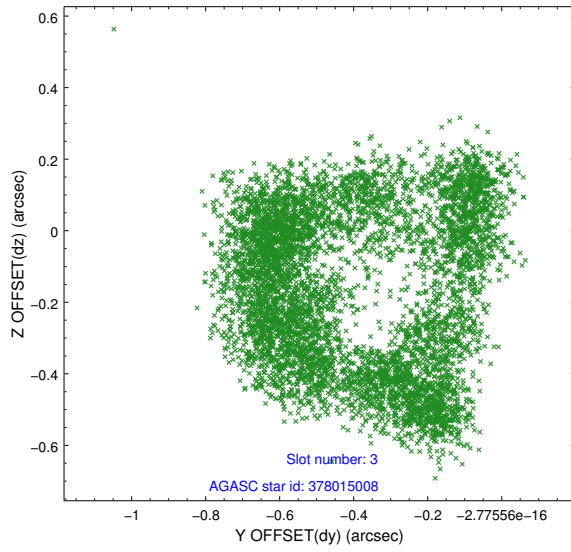


### Slot Statistics

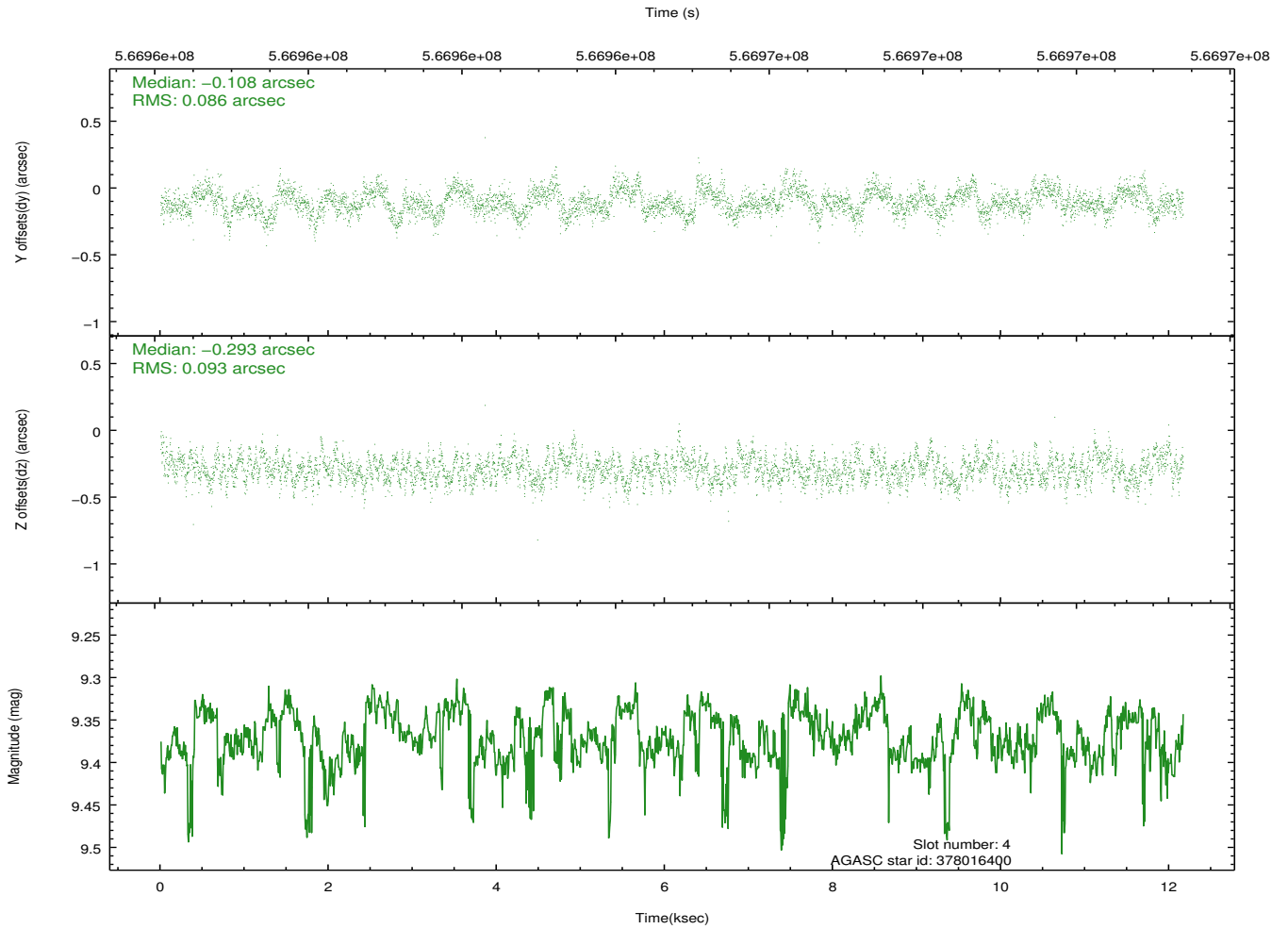
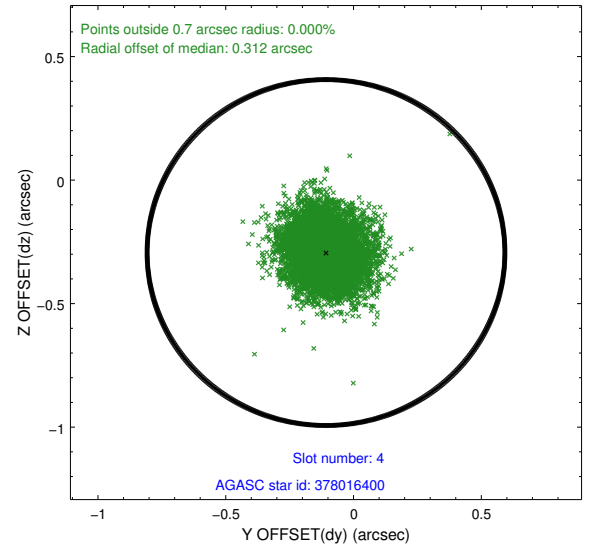
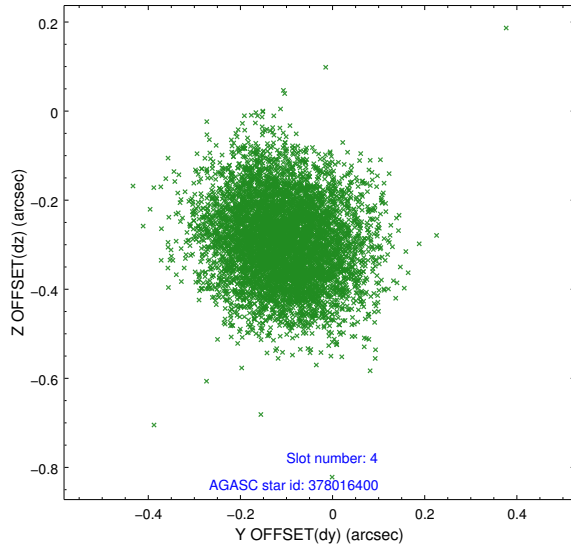
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.13	2967	-0.171	-0.106	0.009	0.014	0.000000	0.000000	-770.47	-1741.03
1	FID		ACIS-S-4	7.23	2967	0.421	0.111	0.010	0.017	0.000000	0.000000	2143.19	167.28
2	FID		ACIS-S-5	7.24	2966	-0.283	0.004	0.012	0.021	0.000000	0.000000	-1822.92	161.26
3	GUIDE	used	378015008	8.92	5929	-0.417	-0.150	0.335	0.460	68.339133	41.210229	877.86	1469.29
4	GUIDE	used	378016400	9.37	5927	-0.108	-0.293	0.135	0.214	68.268063	40.866417	1916.13	2171.04
5	GUIDE	used	378540864	9.68	5931	0.196	0.373	0.212	0.318	68.300151	42.264746	-1829.35	-1192.34
6	GUIDE	used	378546448	9.40	5928	0.066	-0.022	0.132	0.219	68.713854	41.551709	-711.30	1369.15
7	GUIDE	used	378424536	9.78	5744	0.256	0.092	0.240	0.358	67.496755	41.658861	1231.49	-1296.61

## 2.4 Star Slots

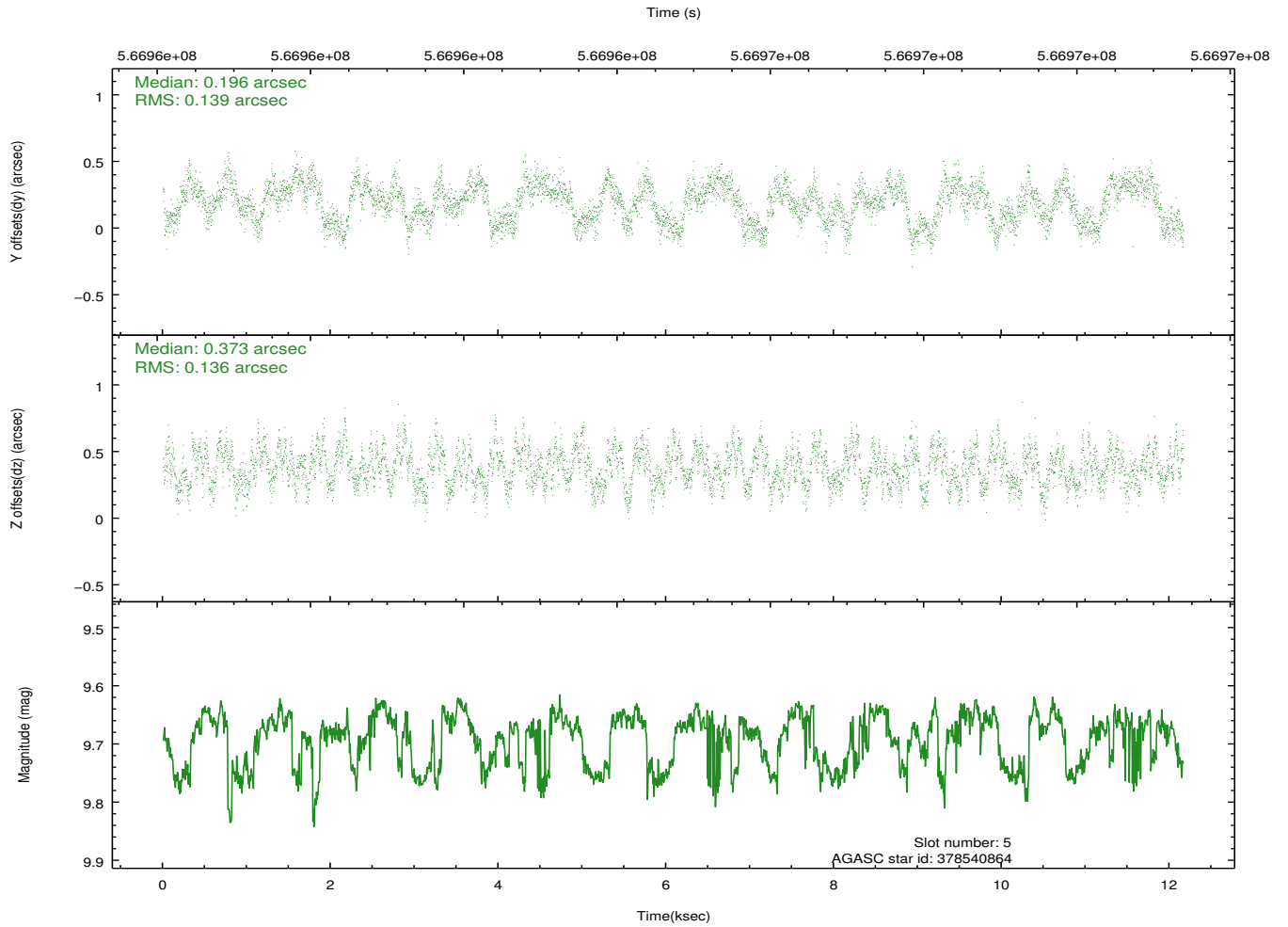
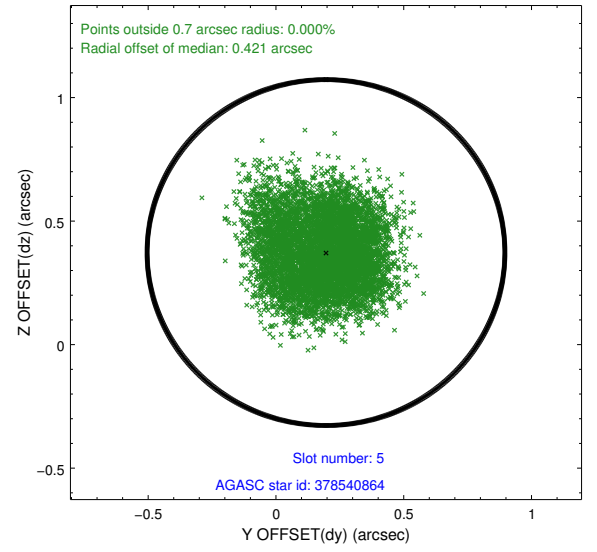
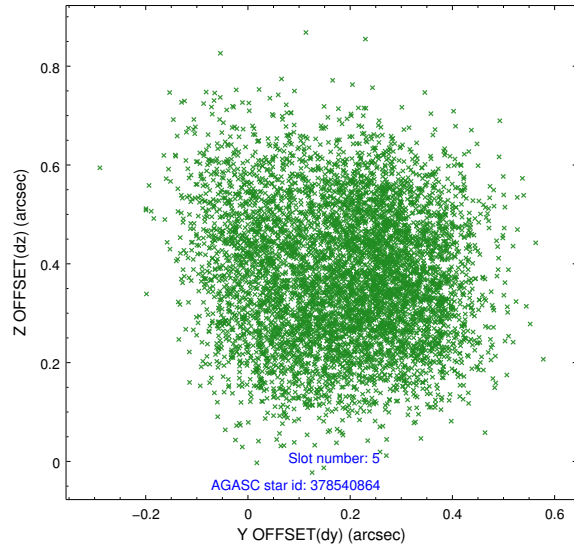
### 2.4.1 Slot 3



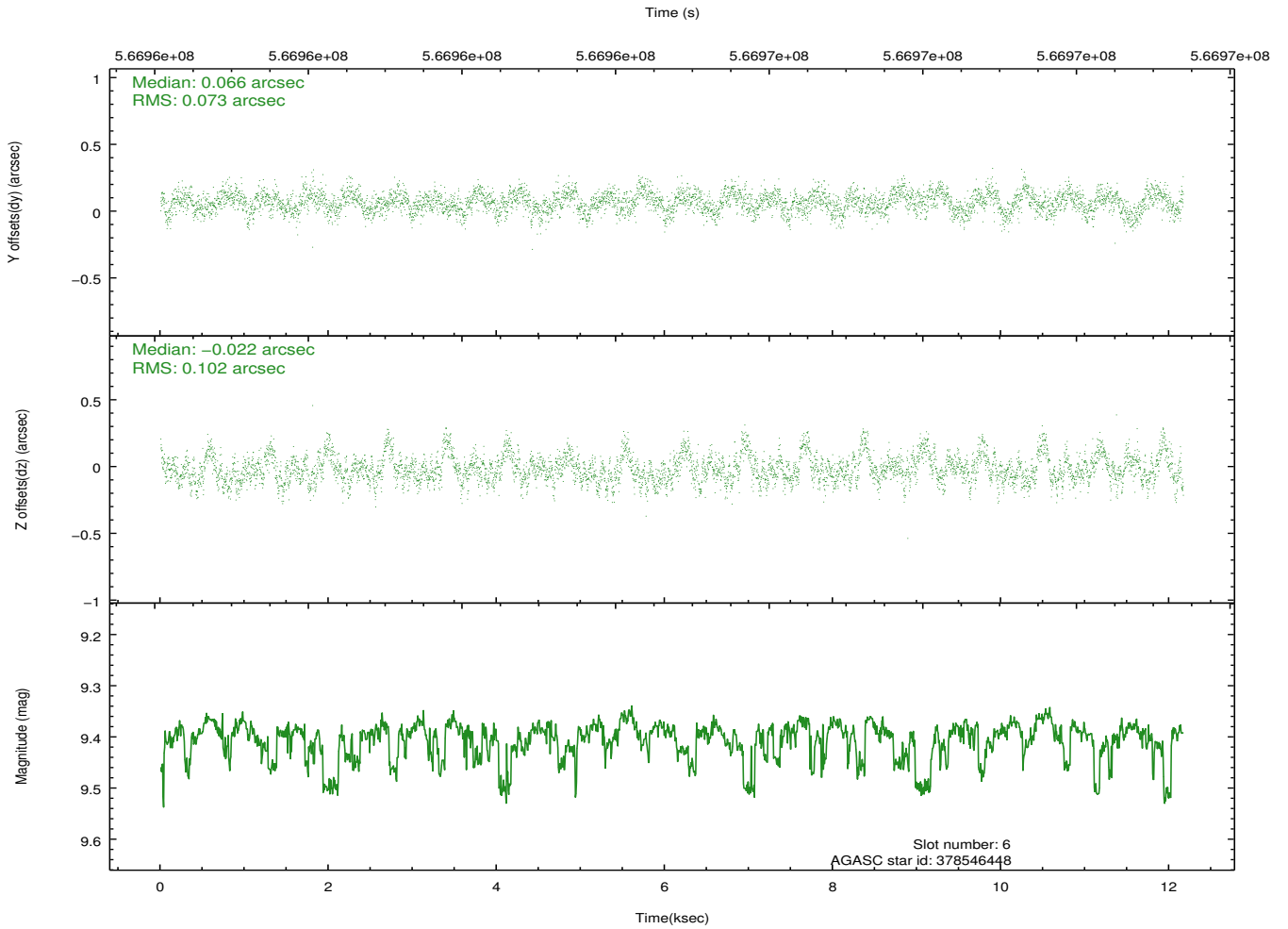
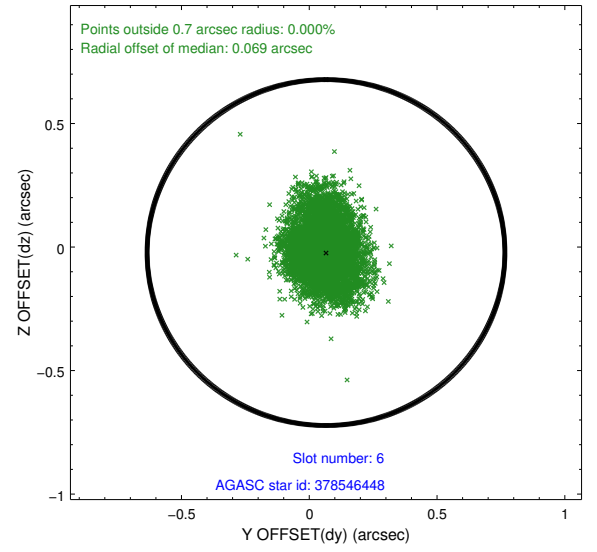
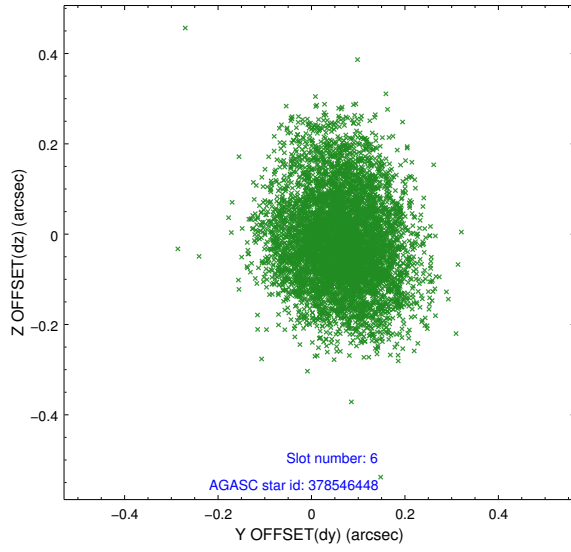
## 2.4.2 Slot 4



### 2.4.3 Slot 5

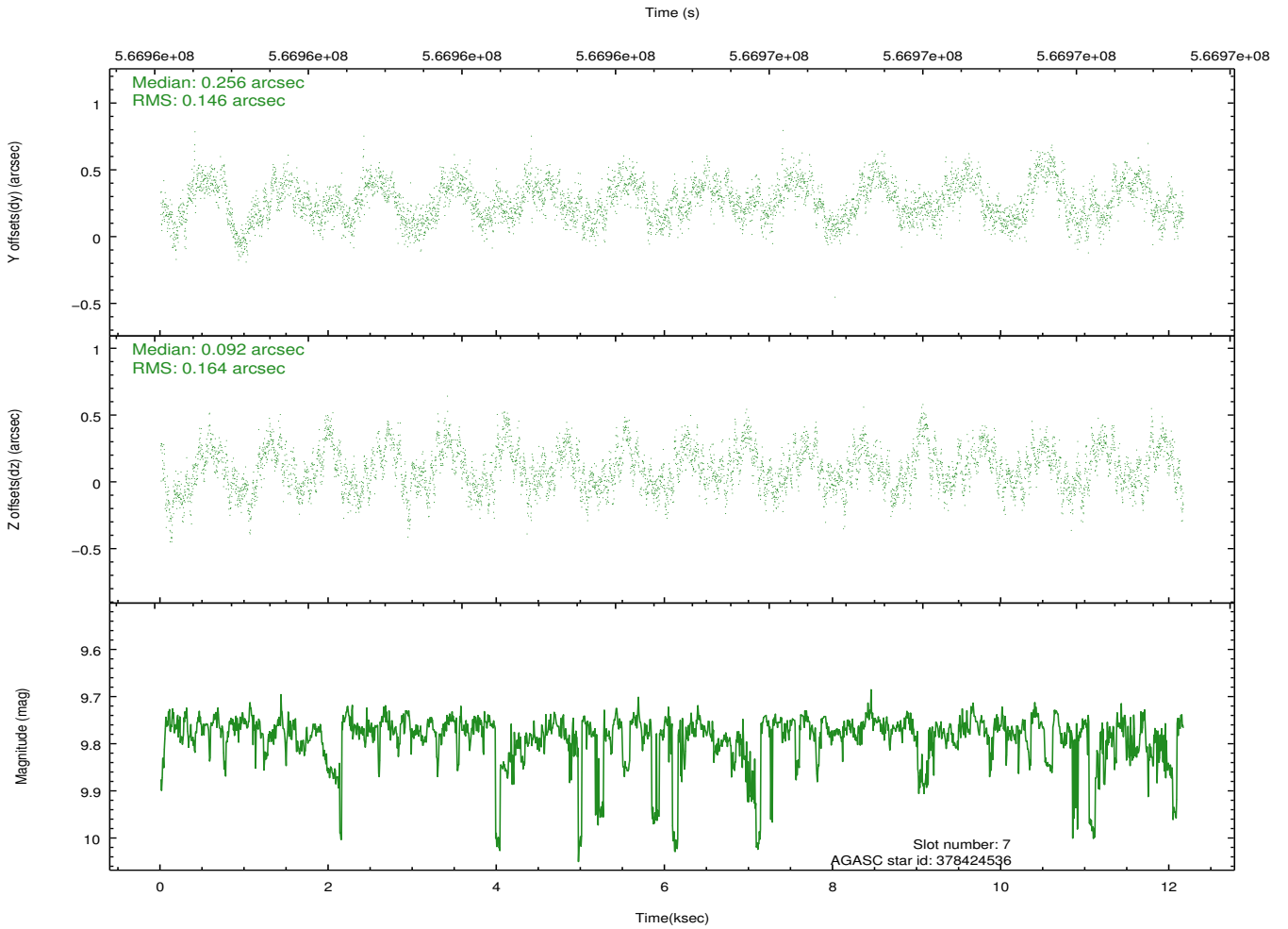
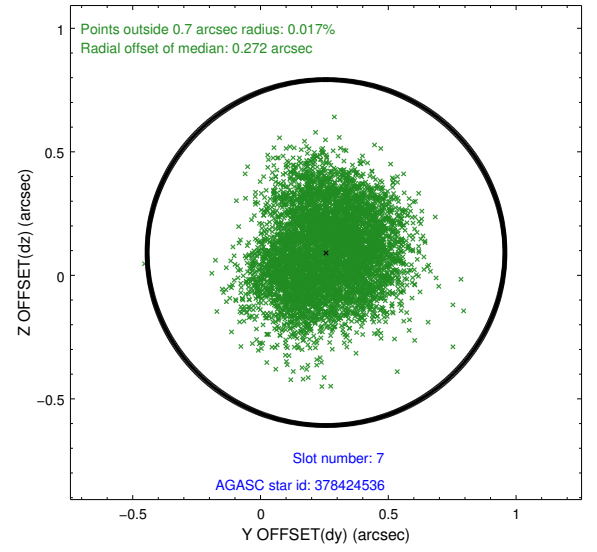
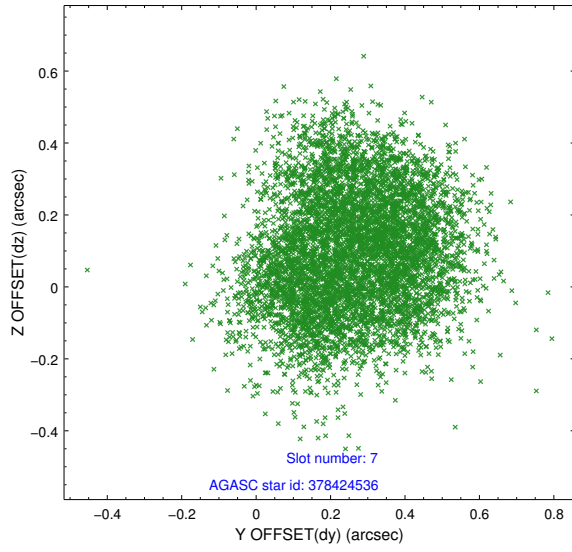


## 2.4.4 Slot 6



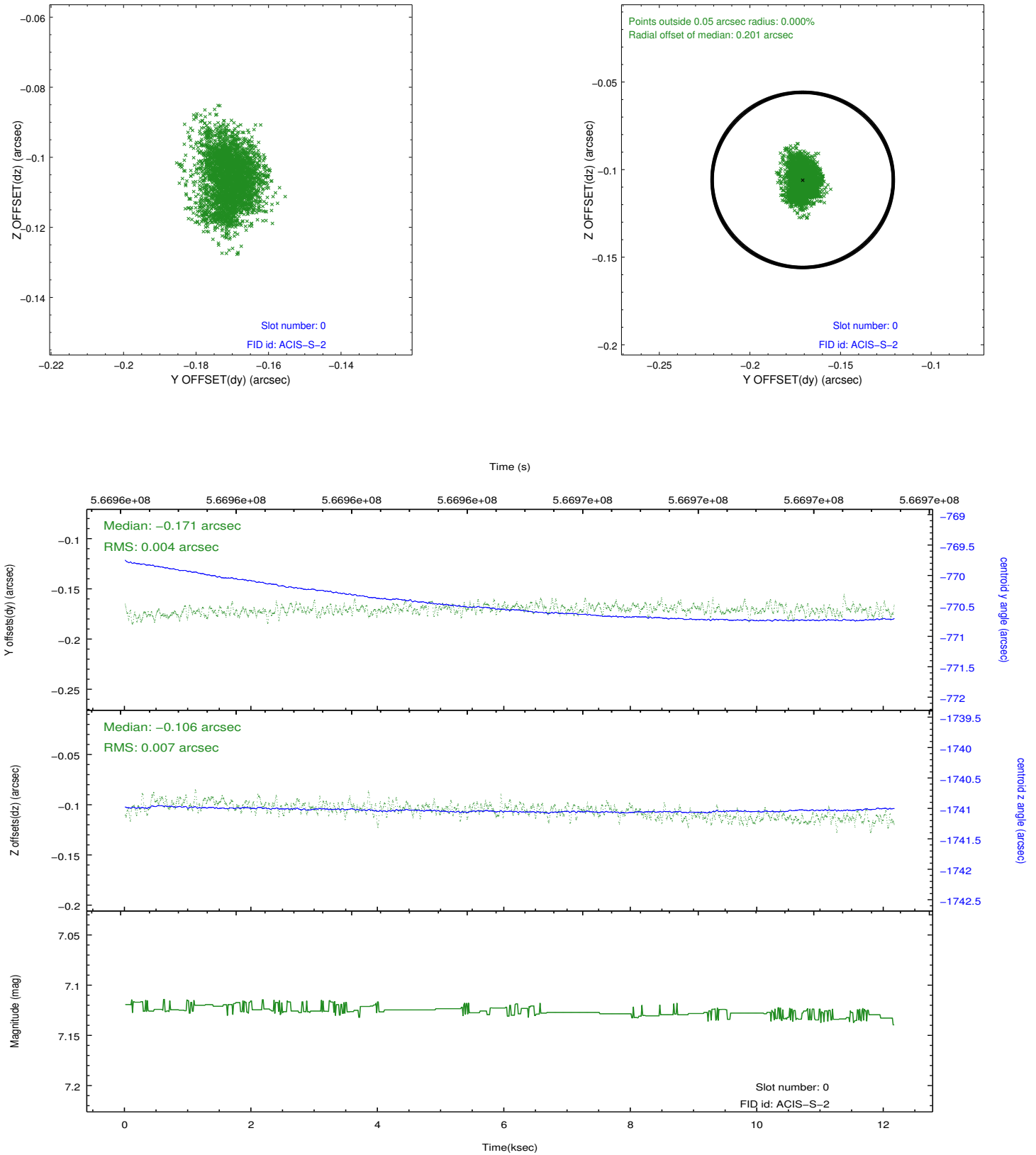


## 2.4.5 Slot 7

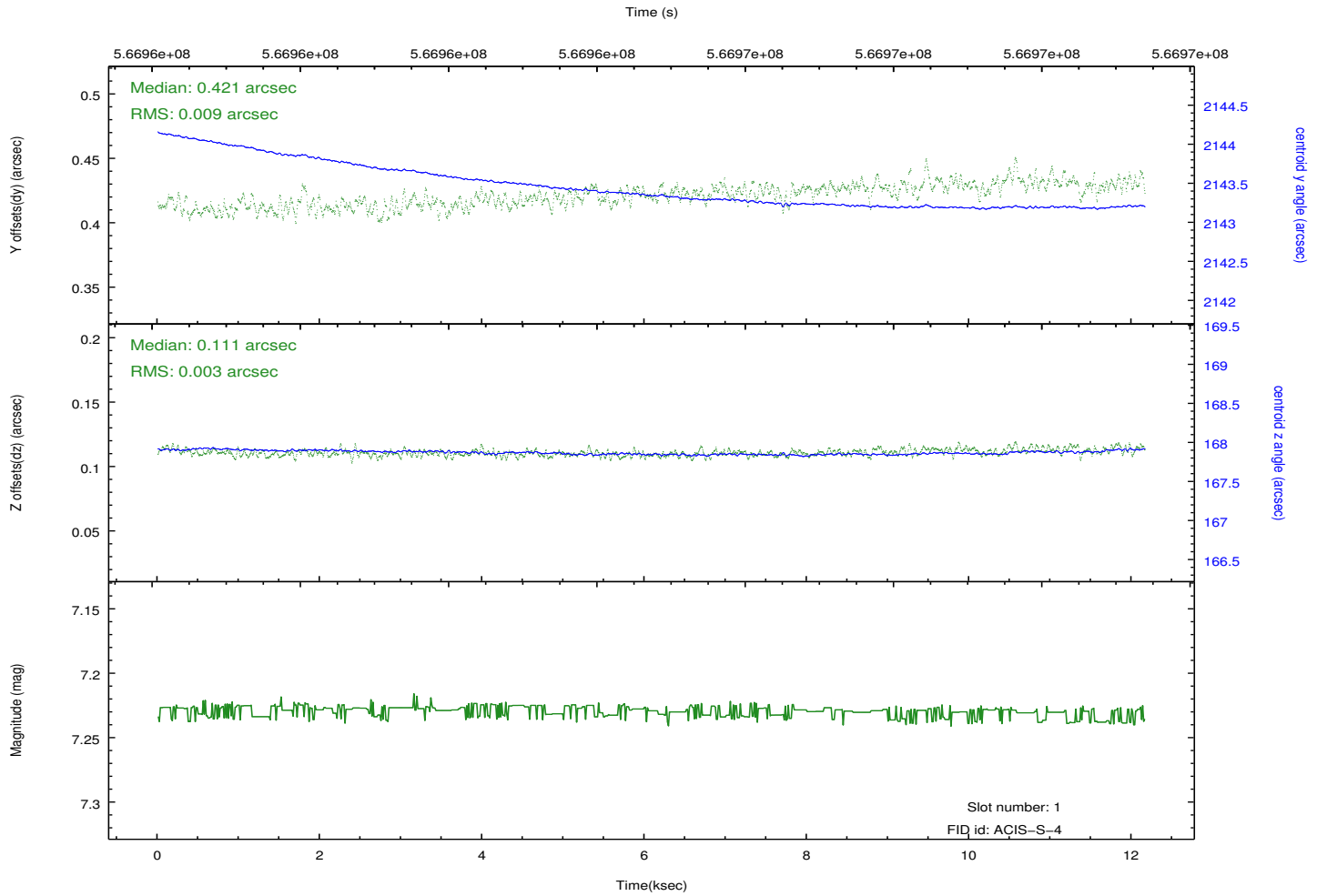
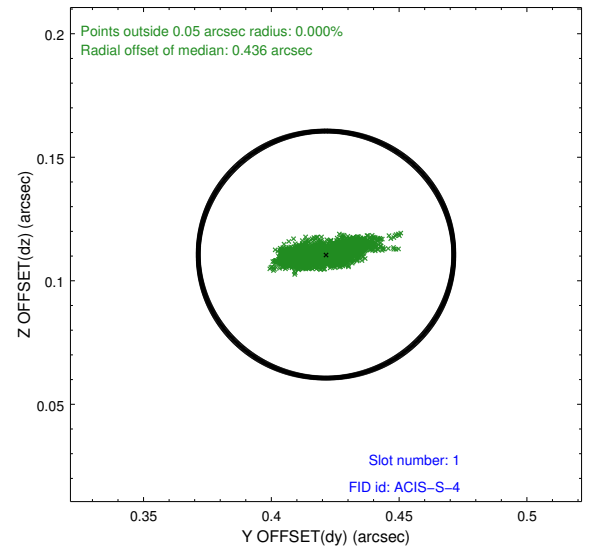
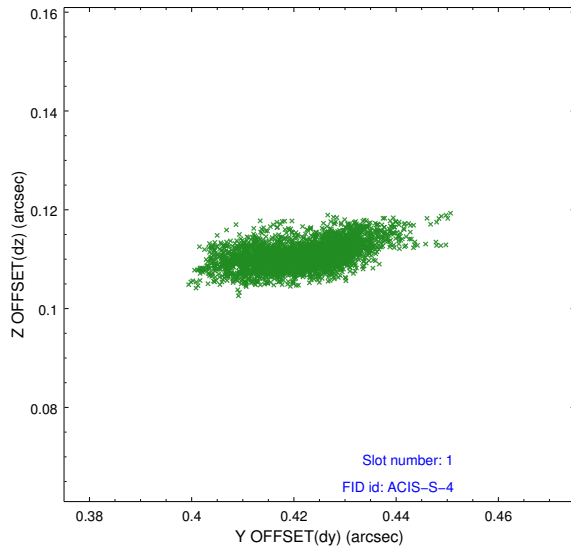


## 2.5 FID Slots

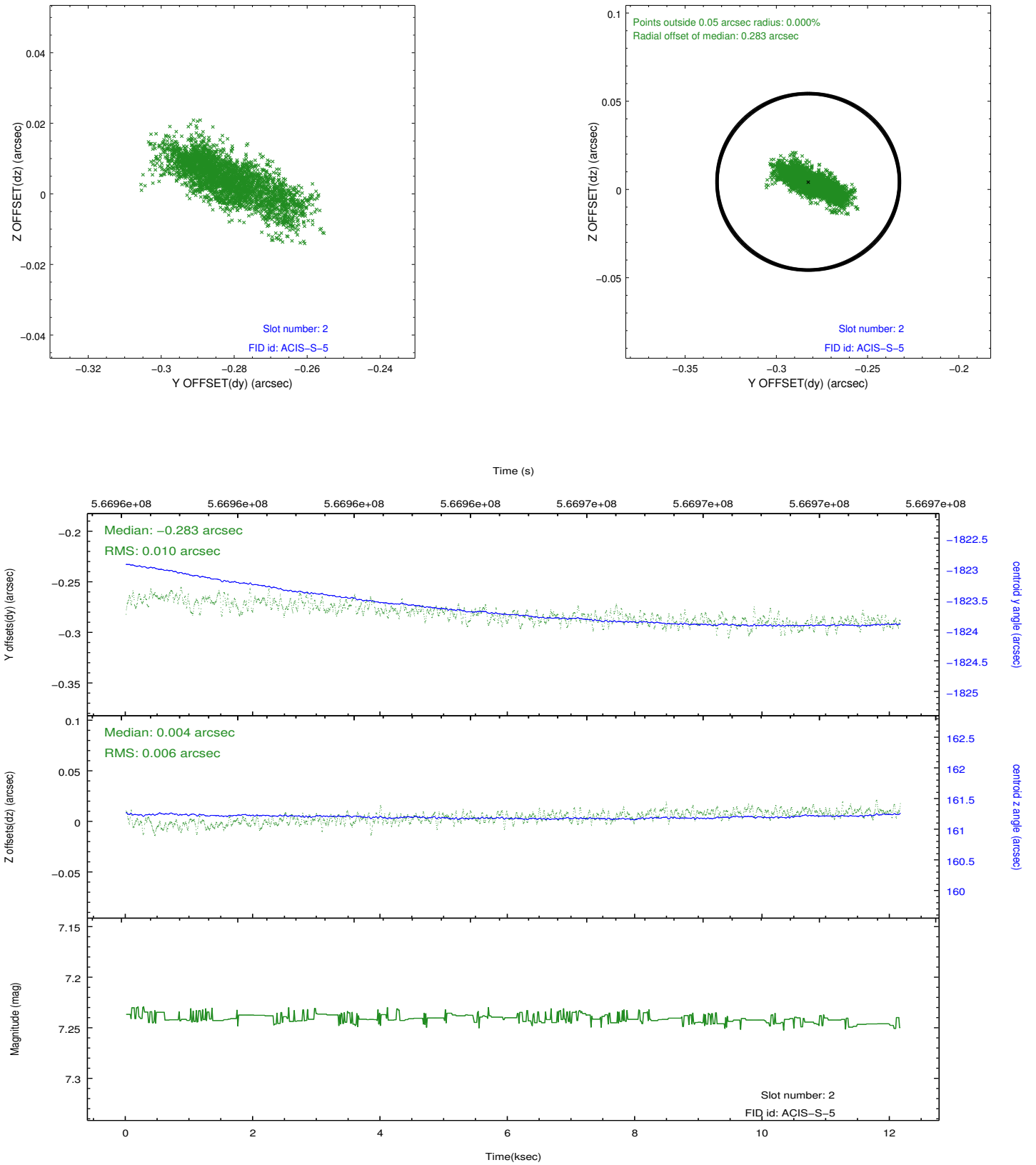
### 2.5.1 Slot 0



## 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)	2015.12.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	12.062100092888

### **A.2 Comments**