

# V&V Reference Report

## L2 ASCDS Version : 10.4.3.1

Observation 18340 - L2 Version 1  
Chandra X-Ray Center

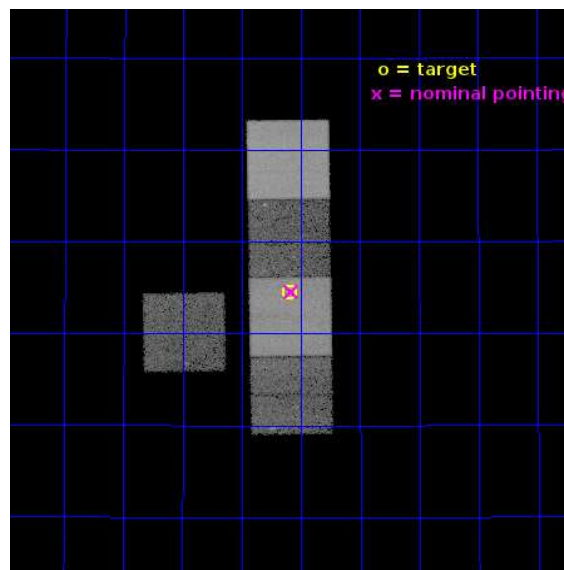
L2 Processing Date : May 5 2016

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# 1 Front

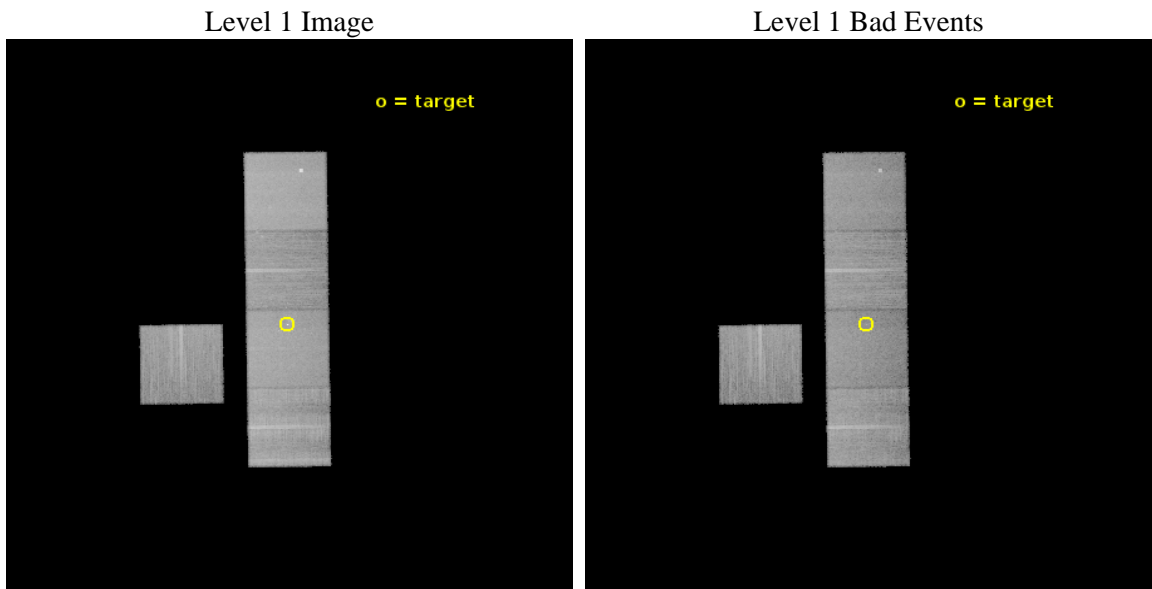
seq_num	502651	Sequence number
obs_id	18340	Observation id
title	The unprecedented metamorphosis of SN2014C: from a H-stripped explosion to a strongly interacting supernova	Proposal title
observer	Raffaella Margutti	Principal investigator
object	SN2014C	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	339.273333	Observer's specified target RA [deg]
dec_targ	34.408861	Observer's specified target Dec [deg]
ra_nom	339.27038950016	Nominal RA [deg]
dec_nom	34.409630280998	Nominal Dec [deg]
roll_nom	89.168762680437	Nominal Roll [deg]
revision	1	Processing version of data
ontime	28033.300215721	Sum of GTIs [s]
livetime	27667.024510587	Livetime [s]
ontime3	28033.300215721	Sum of GTIs [s]
ontime5	28033.300215721	Sum of GTIs [s]
ontime6	28030.159225464	Sum of GTIs [s]
ontime7	28033.300215721	Sum of GTIs [s]
ontime8	28027.018255353	Sum of GTIs [s]
l2events	281230	Number of level 2 events



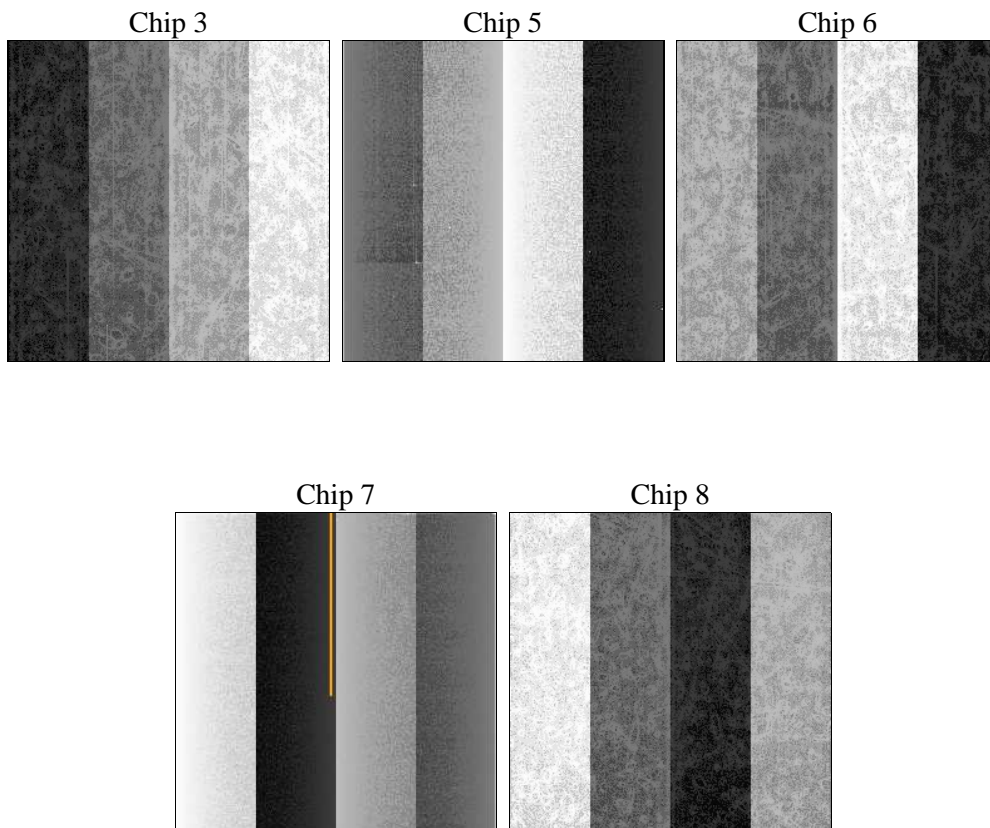
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	28000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	28033.300215721	Sum of GTIs [s]
caldbver	4.7.1	&#160	ontime3	28033.300215721	Sum of GTIs [s]
date	2016-05-05T19:31:31	Date and time of file creation	ontime5	28033.300215721	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	28030.159225464	Sum of GTIs [s]
			ontime7	28033.300215721	Sum of GTIs [s]
			ontime8	28027.018255353	Sum of GTIs [s]
			l1events	1077398	Number of level 1 events

### 2.1.4 Events

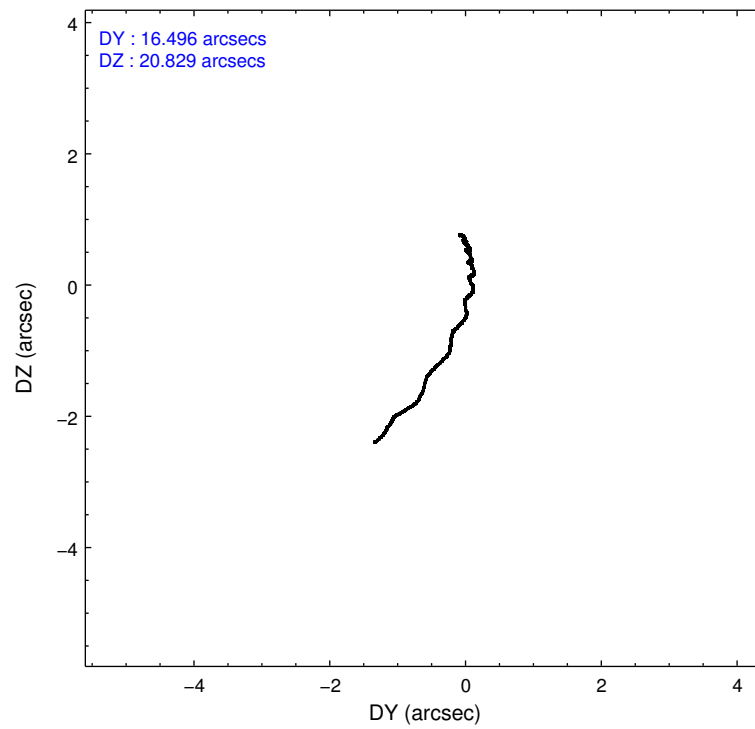
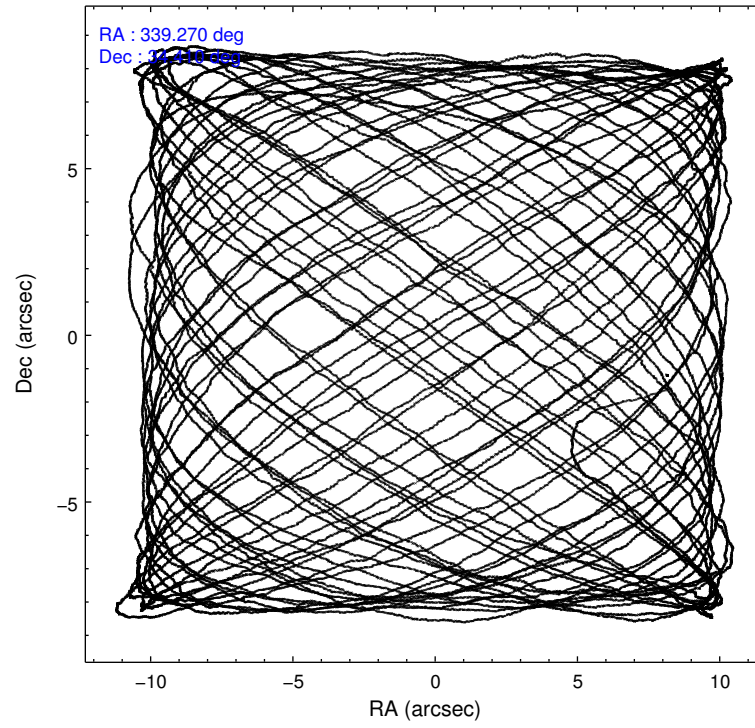
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	169575	275207	175990	229282	227344
rejected events	151066	144842	155067	127764	164878
rejected %	89%	52%	88%	55%	72%

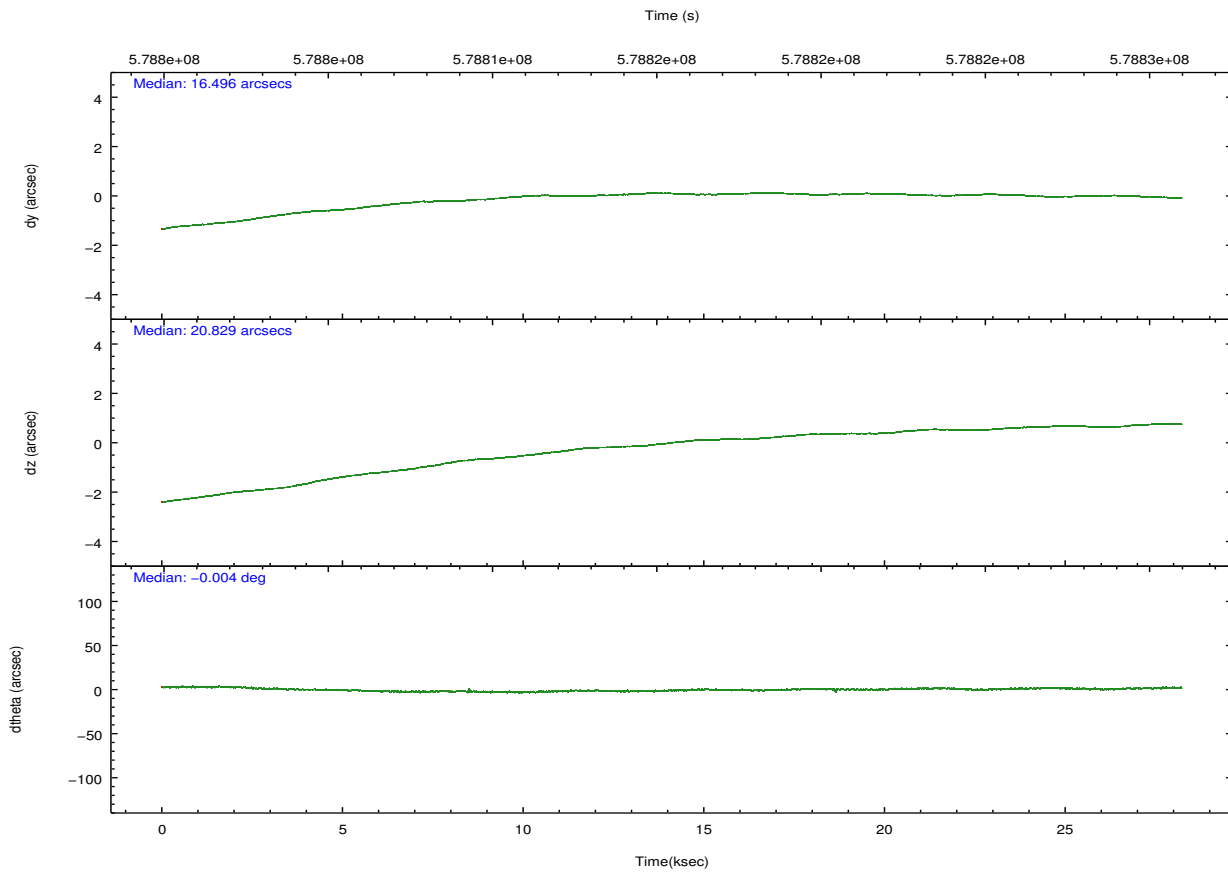
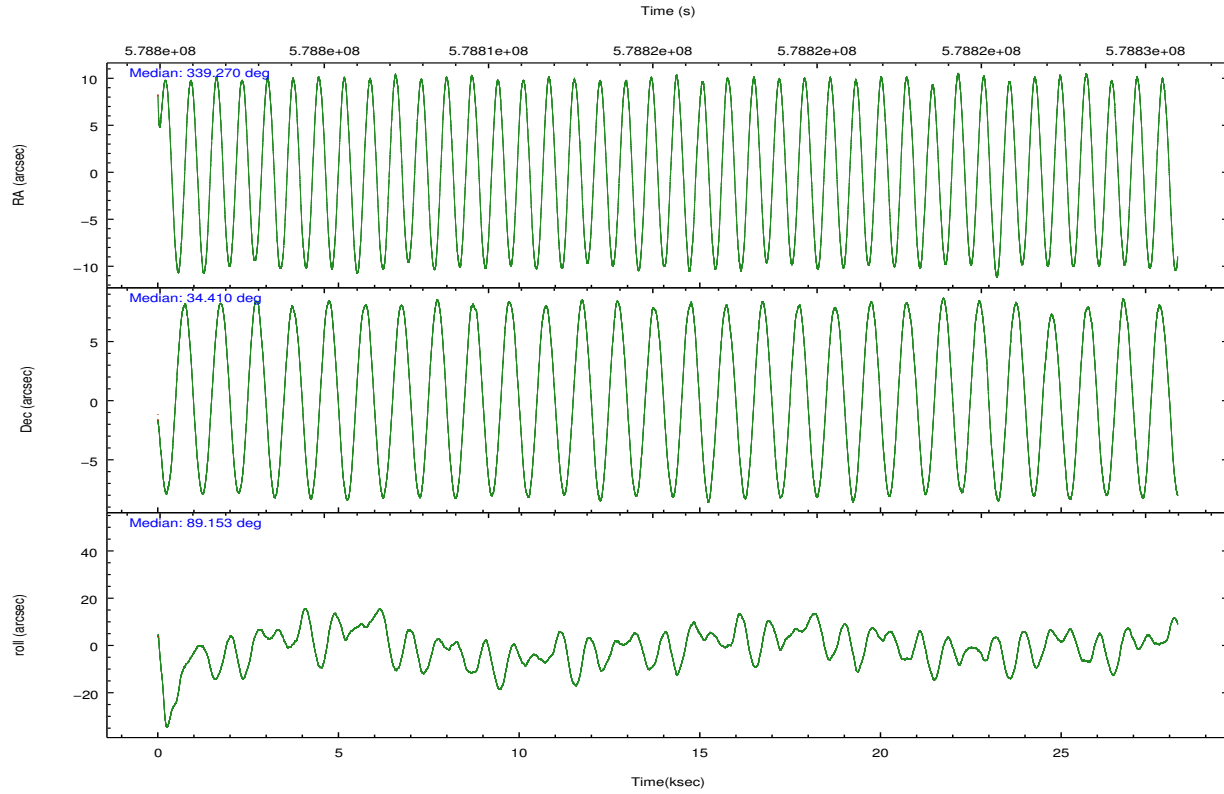
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	6773	7912	7508	9295	18842
	3%	2%	4%	4%	8%
grade 1 events	101	520	116	301	188
	0%	0%	0%	0%	0%
grade 2 events	4033	40902	4702	21546	14784
	2%	14%	2%	9%	6%
grade 3 events	1940	5015	2042	8416	6383
	1%	1%	1%	3%	2%
grade 4 events	1915	4170	2069	8290	6048
	1%	1%	1%	3%	2%
grade 5 events	8412	20327	8547	22732	12617
	4%	7%	4%	9%	5%
grade 6 events	3851	72392	4609	53984	16420
	2%	26%	2%	23%	7%
grade 7 events	142550	123969	146397	104718	152062
	84%	45%	83%	45%	66%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-35678	ACIS-35678	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	339.286972	339.2703895001641	CCD I2 on	N	N
[deg] Pointing Dec	34.385858	34.40963028099774	CCD I3 on	O1	Y
[deg] Pointing Roll	89.002768	89.16876268043707	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[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)	578801569.184000	578800612.76617	CCD S5 on	N	N
Observation start date	2016-05-05T02:11:41	2016-05-05T01:56:52	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	578829569.184000	578830527.90538	On-chip summing requested	N	N
Observation end date	2016-05-05T09:58:21	2016-05-05T10:15:27	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect





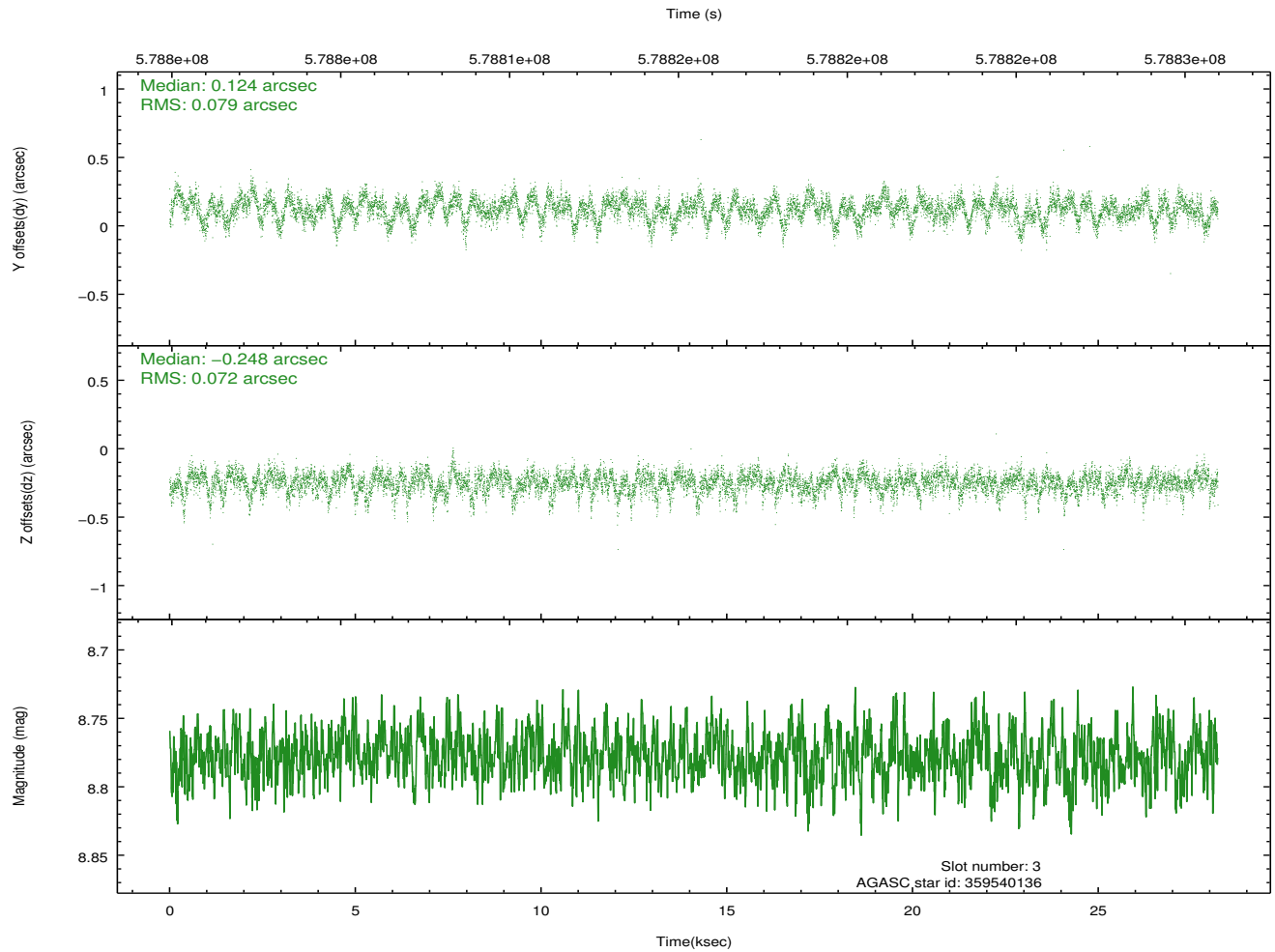
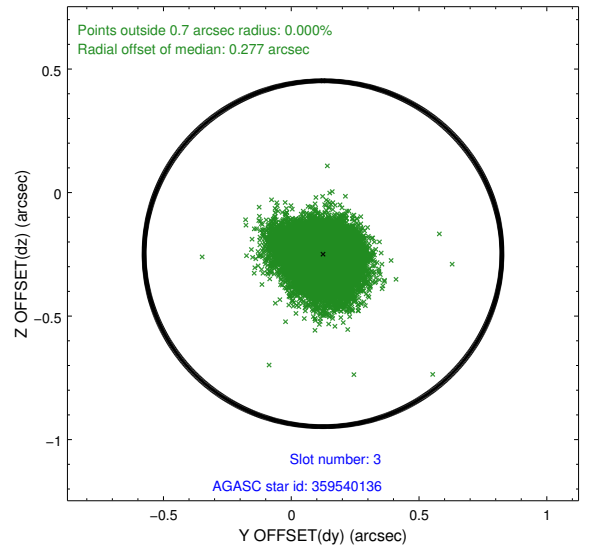
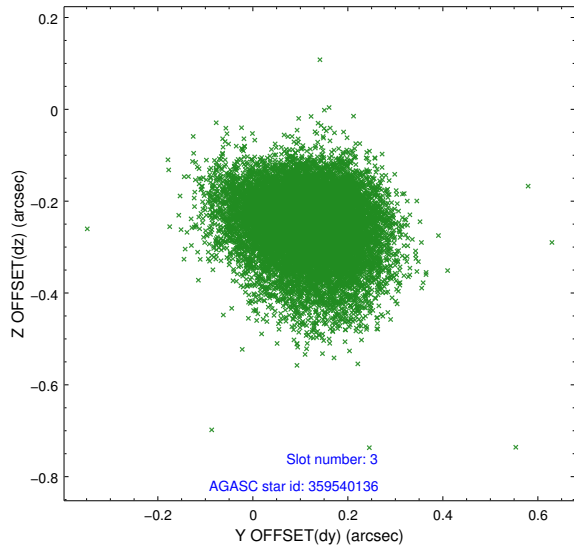
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.11	6884	-0.194	-0.122	0.015	0.027	0.000000	0.000000	-769.50	-1742.17
1	FID		ACIS-S-4	7.22	6883	0.440	0.125	0.021	0.044	0.000000	0.000000	2144.36	166.49
2	FID		ACIS-S-5	7.22	6884	-0.277	0.006	0.018	0.044	0.000000	0.000000	-1822.33	160.11
3	GUIDE	used	359540136	8.78	13753	0.124	-0.248	0.113	0.190	339.014971	34.618247	823.45	820.76
4	GUIDE	used	359541464	8.63	13758	0.088	-0.252	0.110	0.173	339.073218	34.654496	956.89	650.03
5	GUIDE	used	359547944	9.33	13752	-0.149	0.252	0.204	0.356	338.858049	34.436167	161.46	1277.08
6	GUIDE	used	359668200	9.39	13751	-0.032	0.179	0.212	0.315	339.828324	34.777783	1443.63	-1575.03
7	GUIDE	used	359673200	9.60	13742	0.010	0.076	0.198	0.316	339.787045	34.849352	1698.40	-1448.07

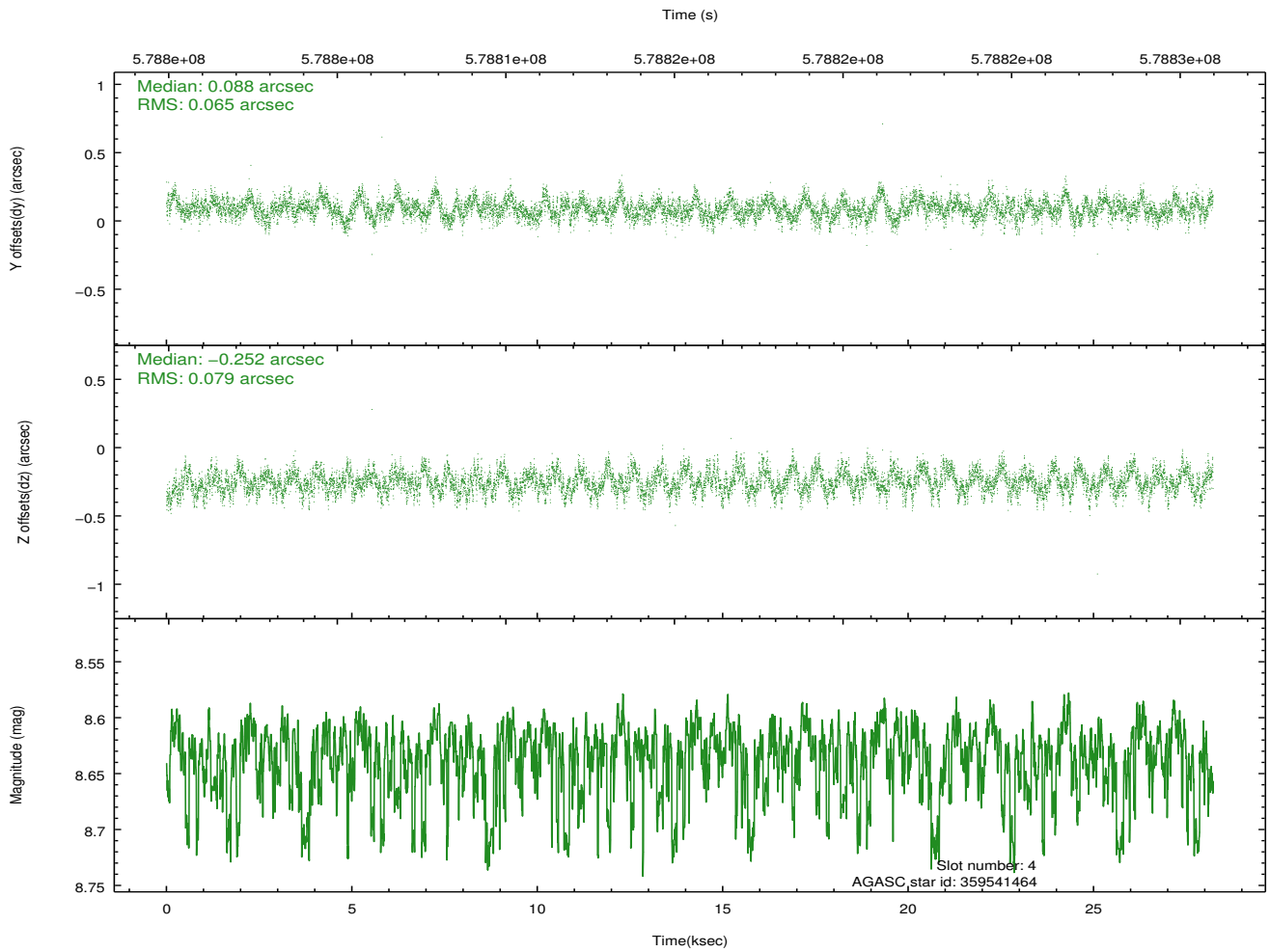
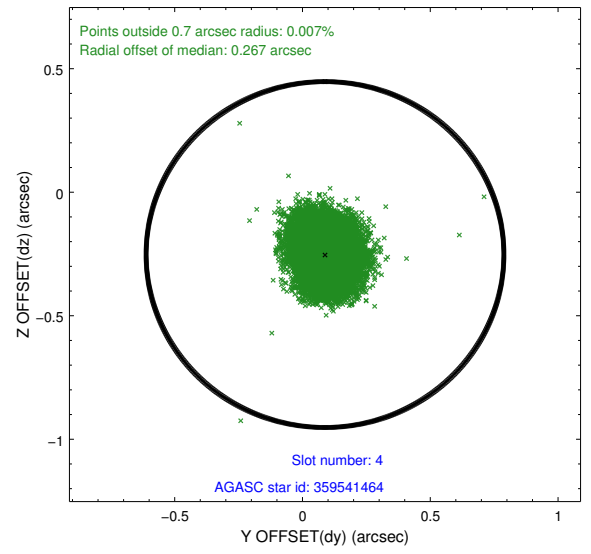
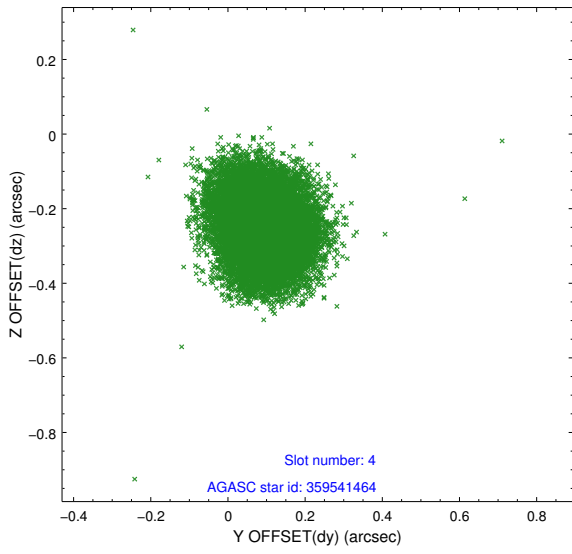
∞

## 2.4 Star Slots

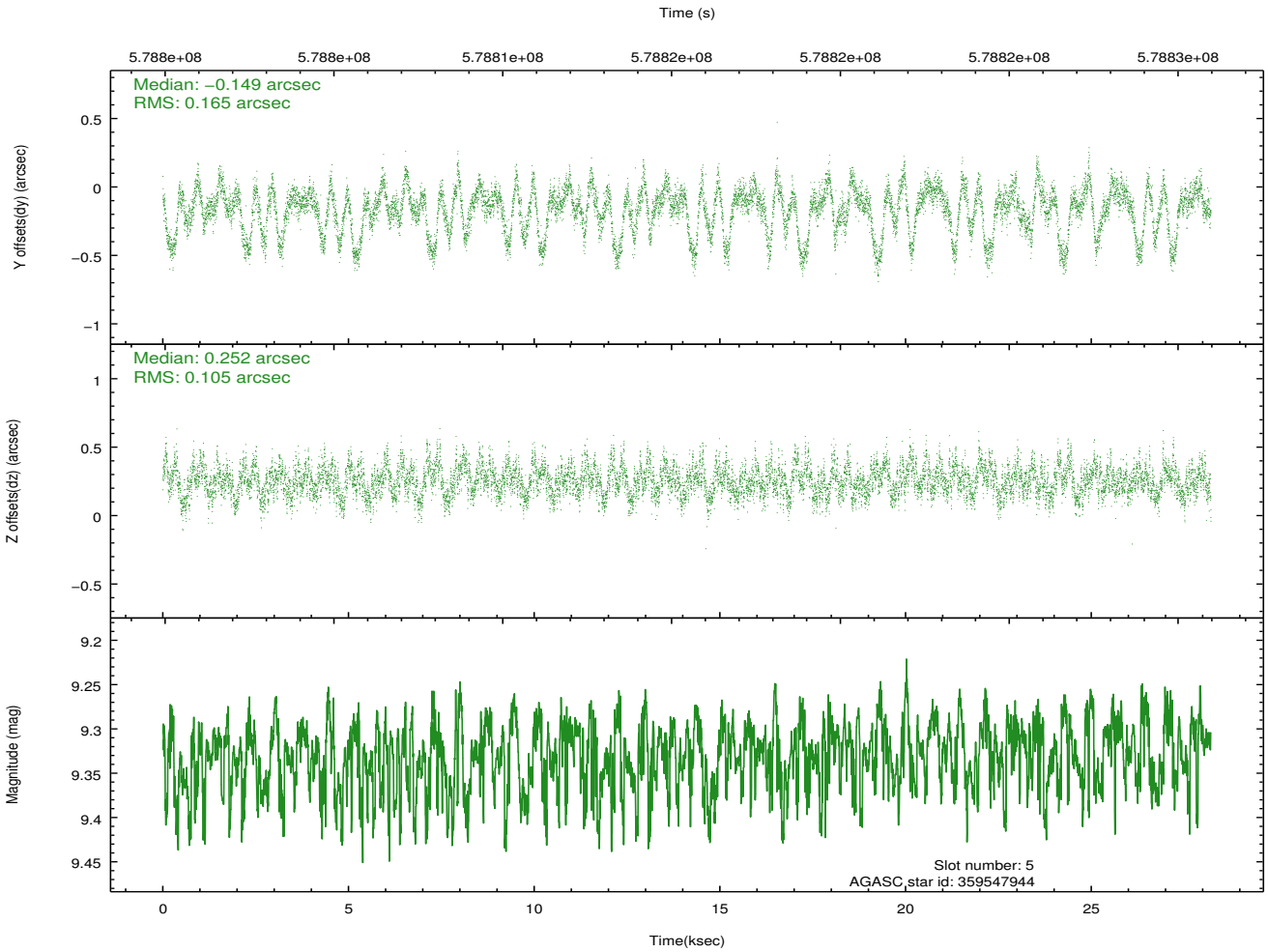
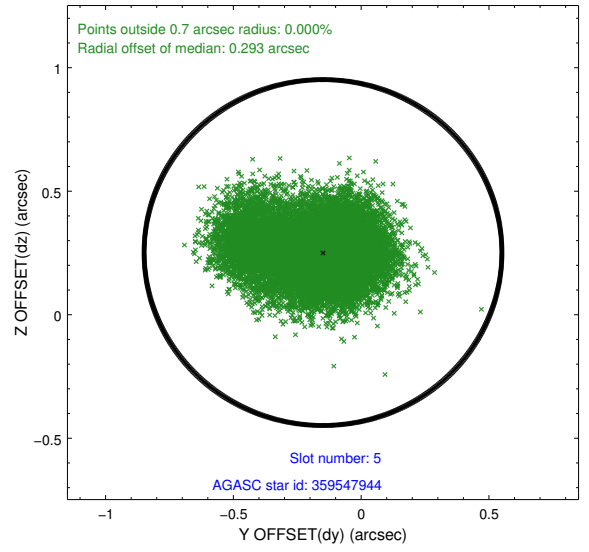
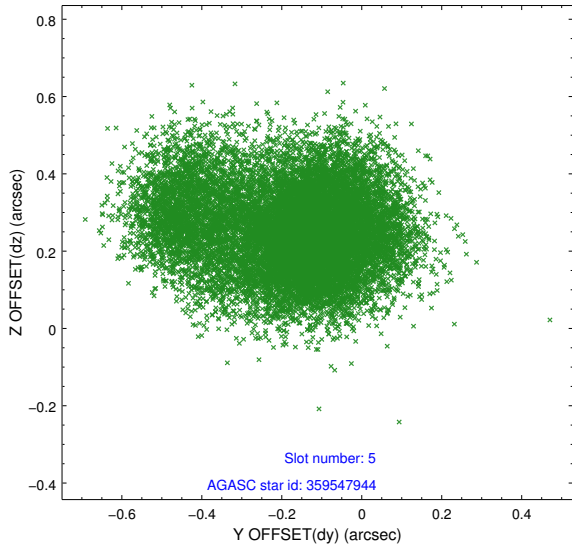
### 2.4.1 Slot 3



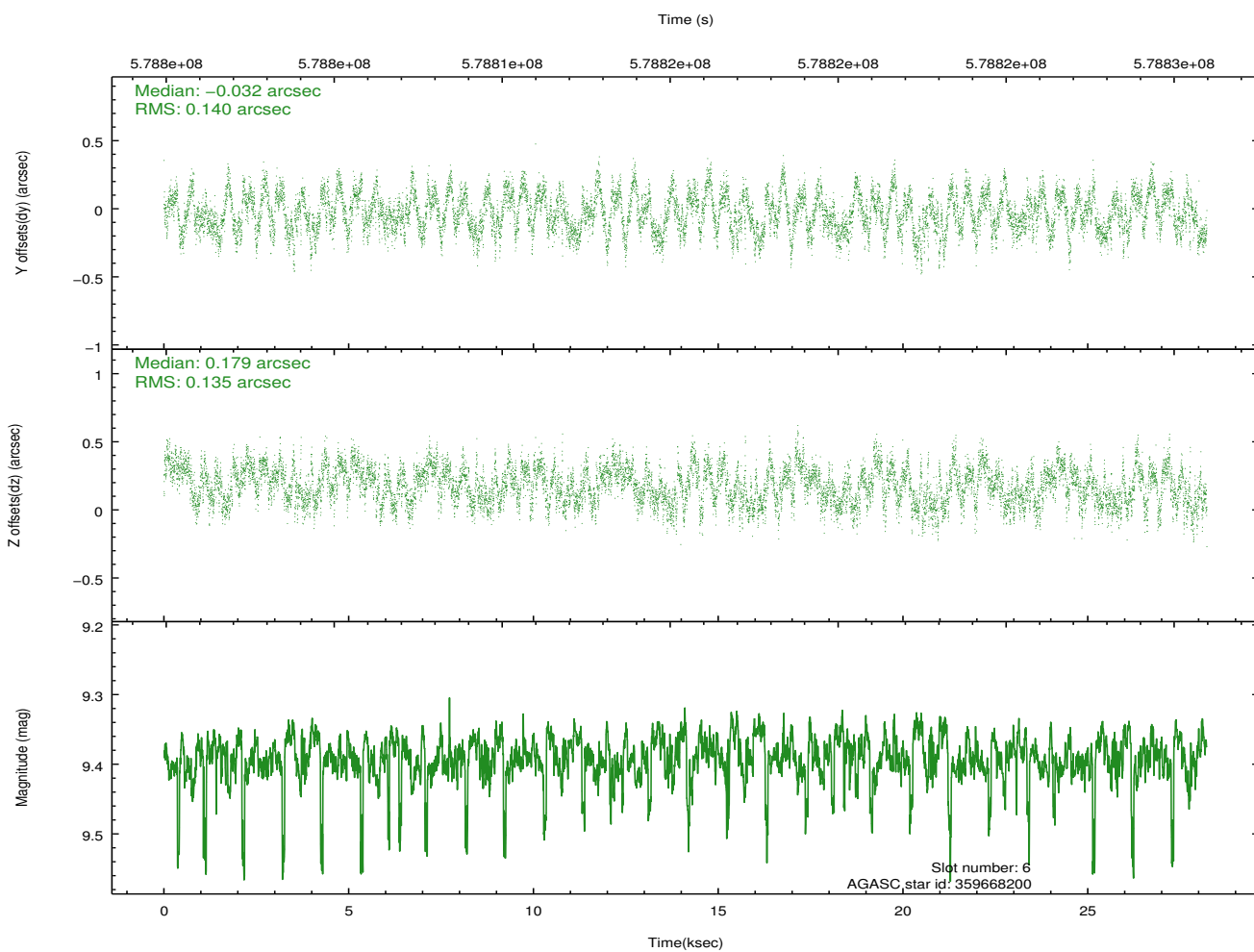
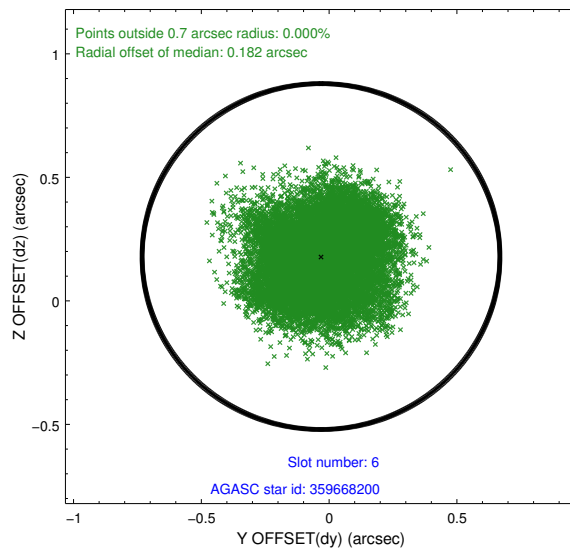
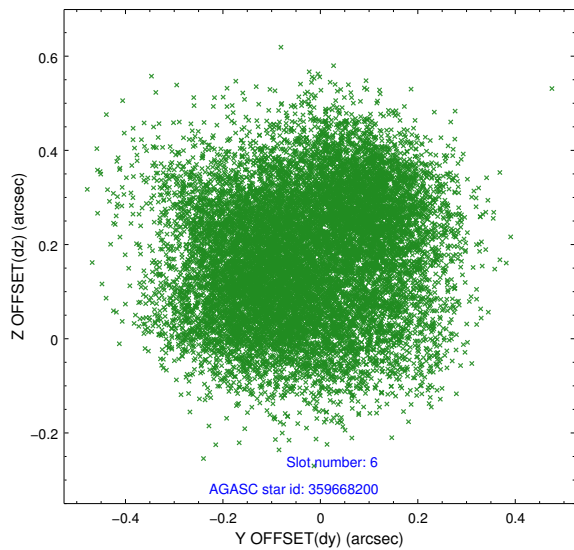
## 2.4.2 Slot 4



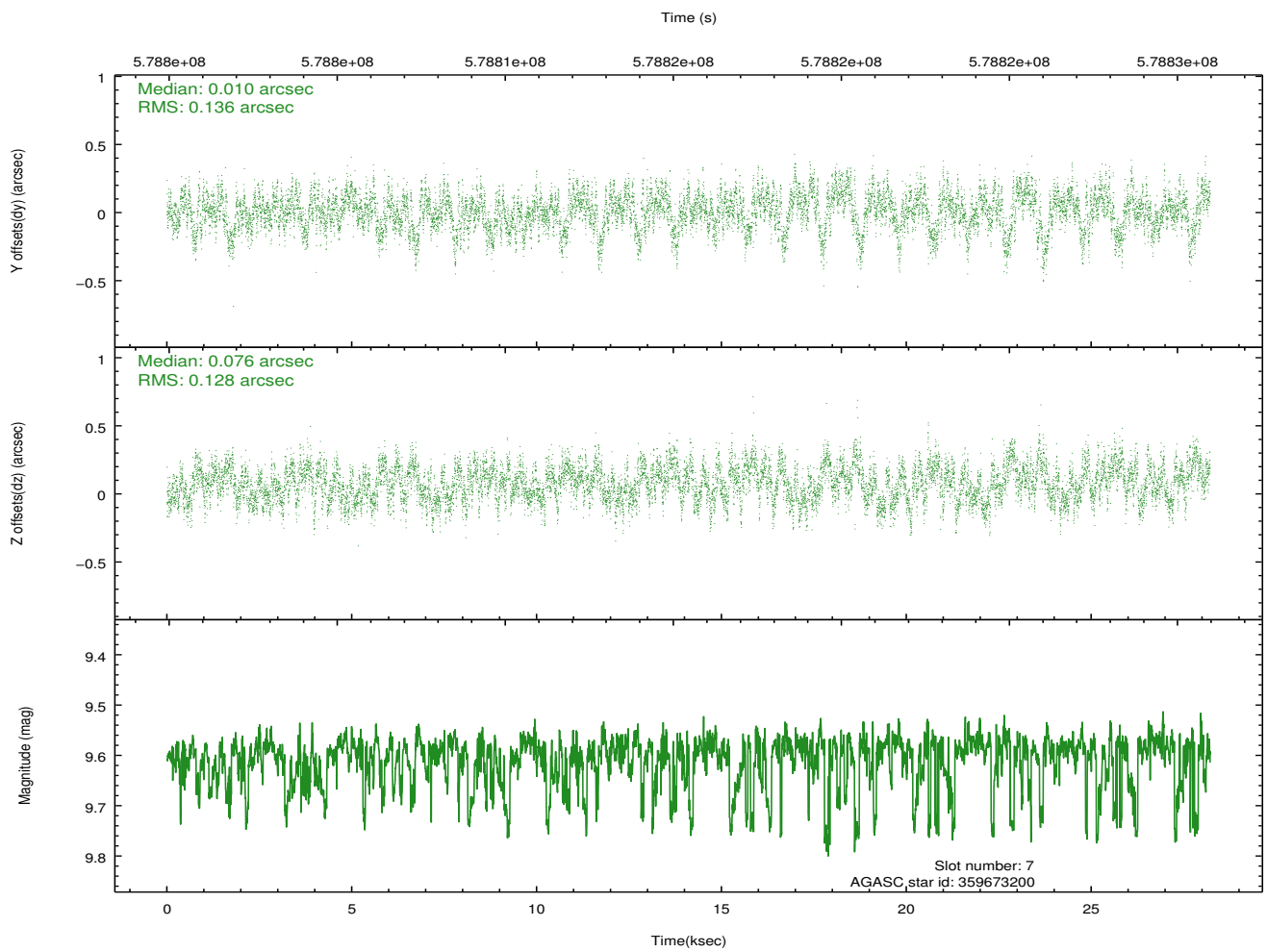
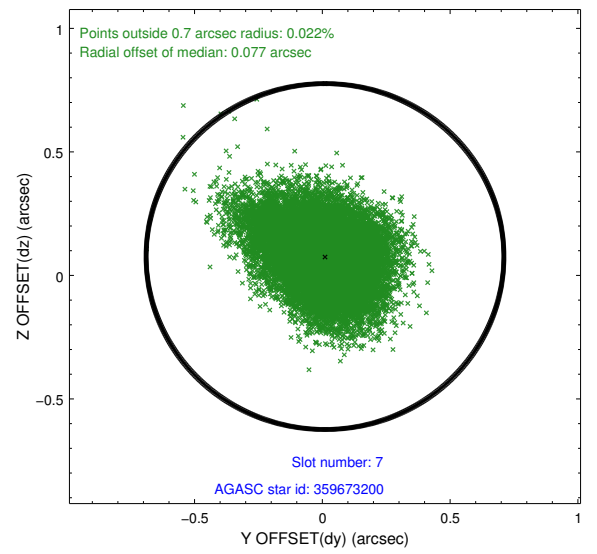
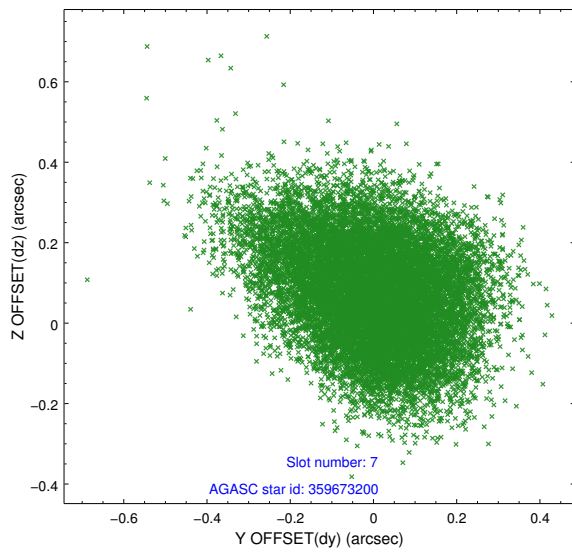
### 2.4.3 Slot 5



## 2.4.4 Slot 6

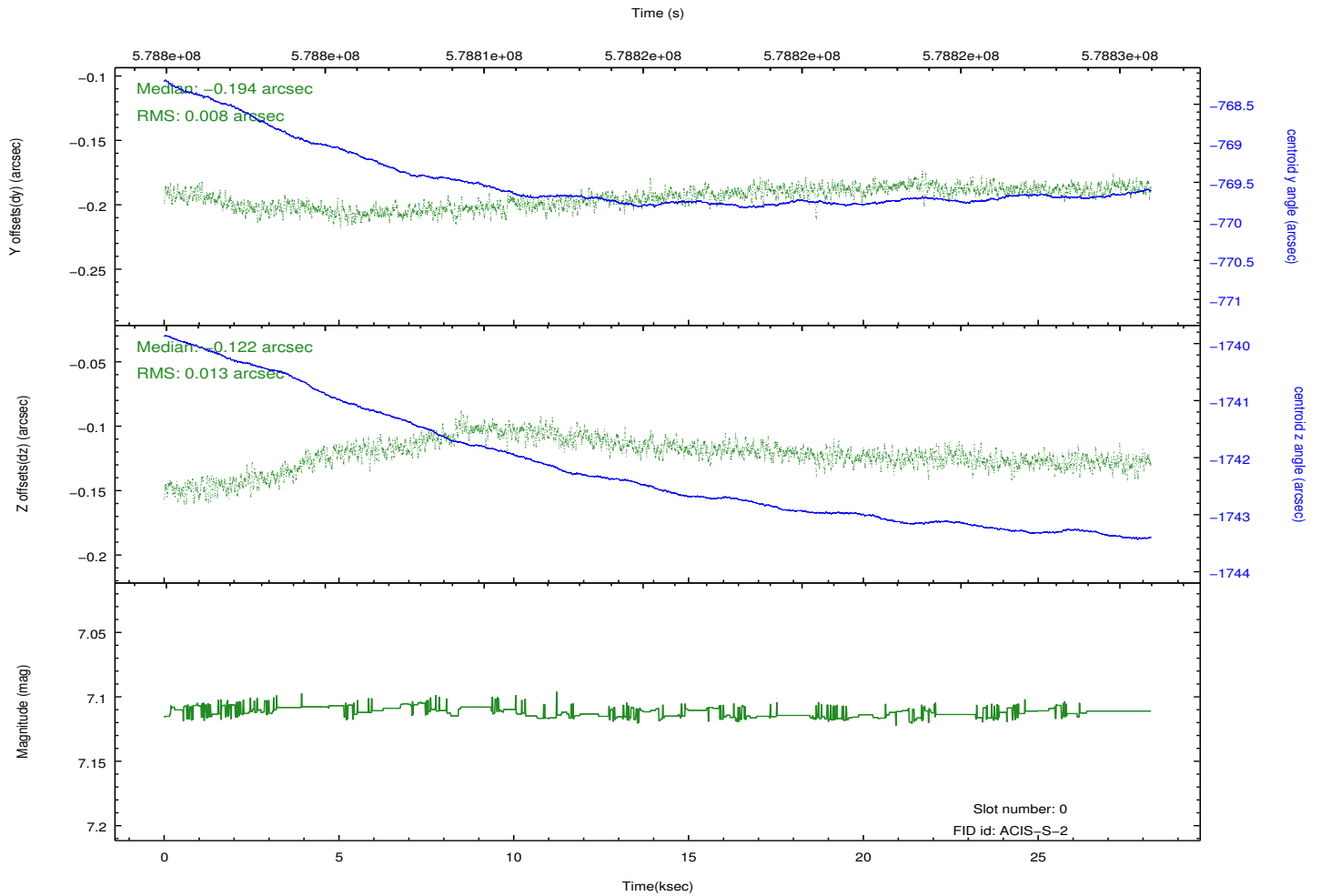
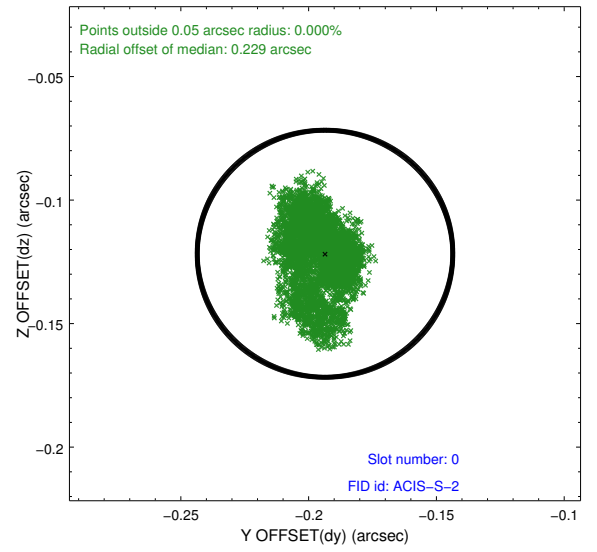
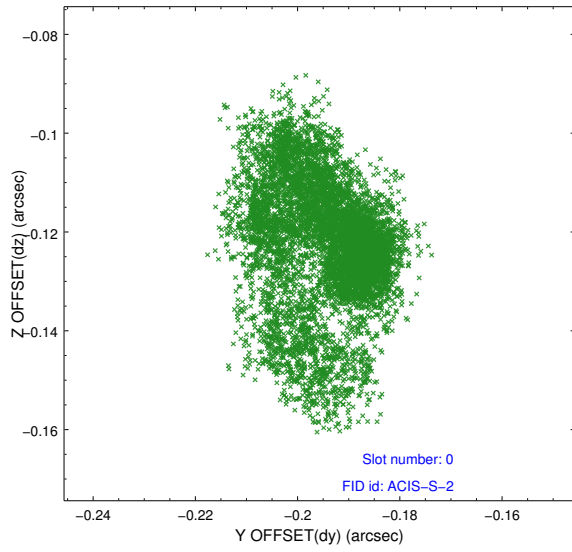


## 2.4.5 Slot 7

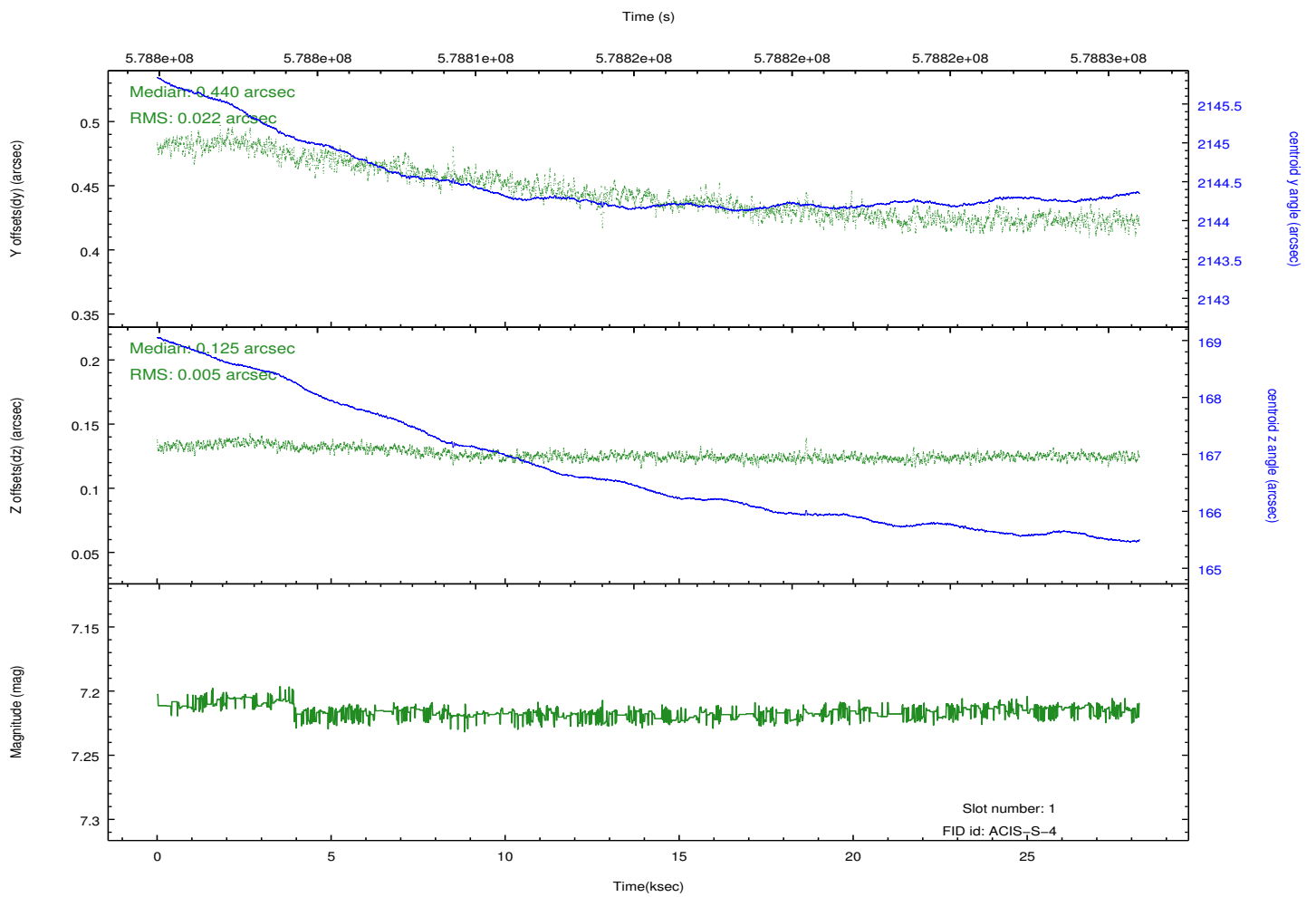
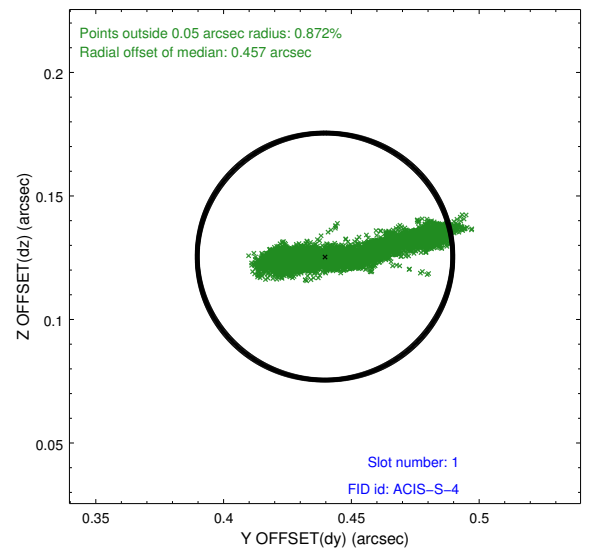
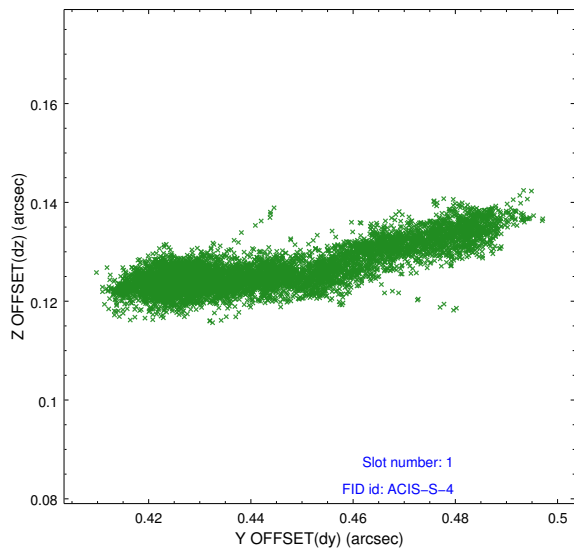


## 2.5 FID Slots

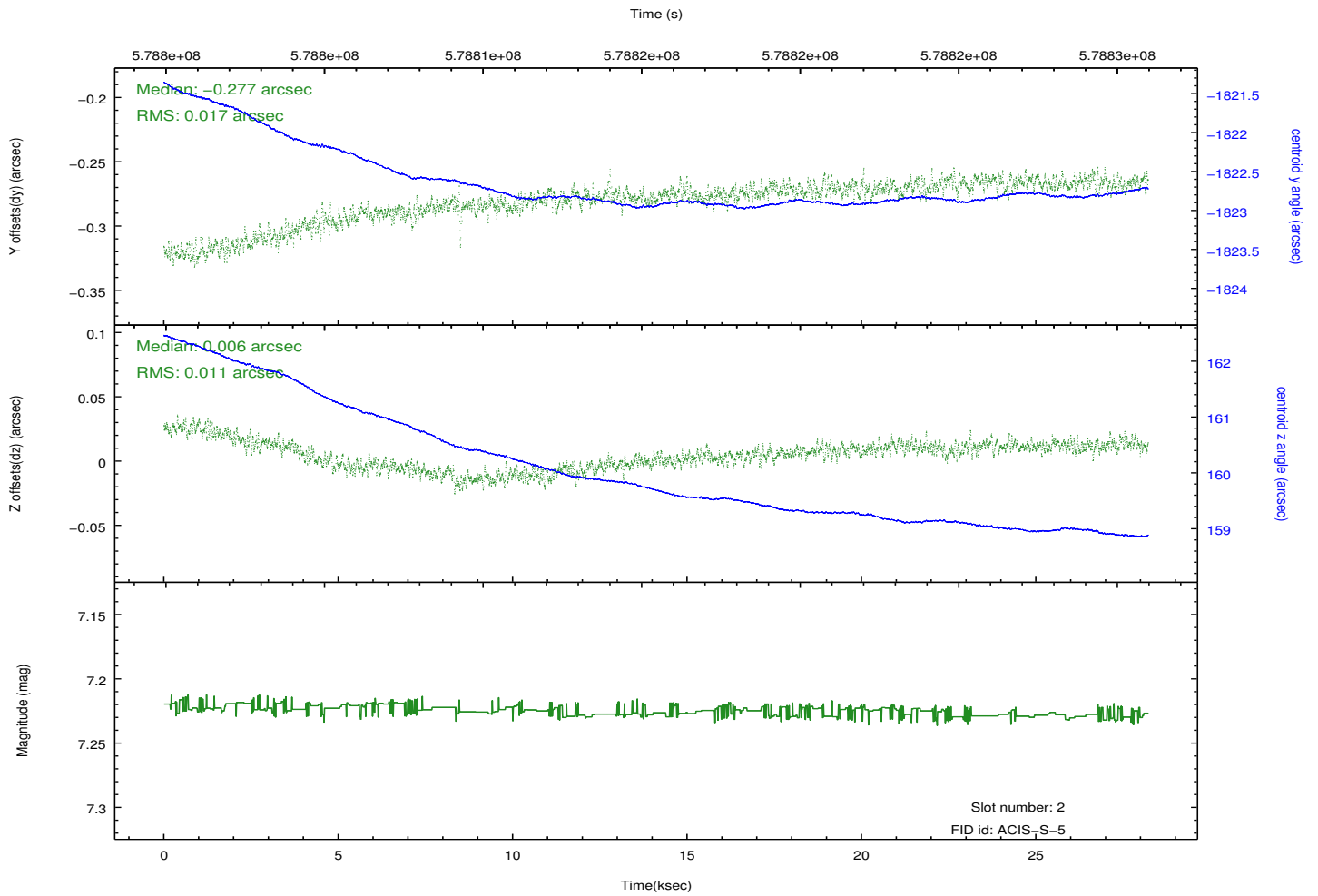
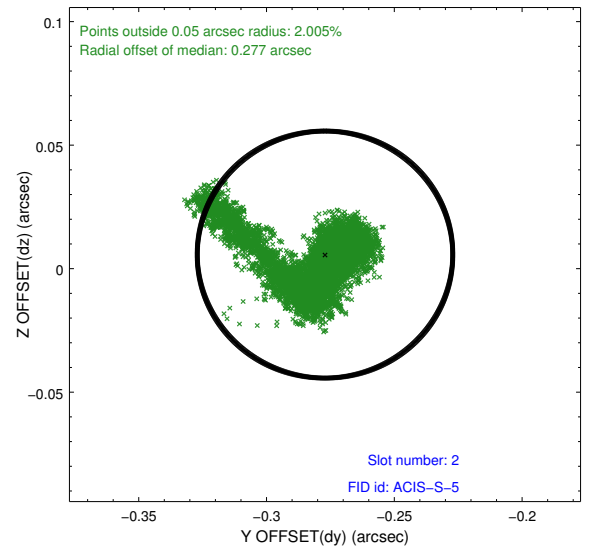
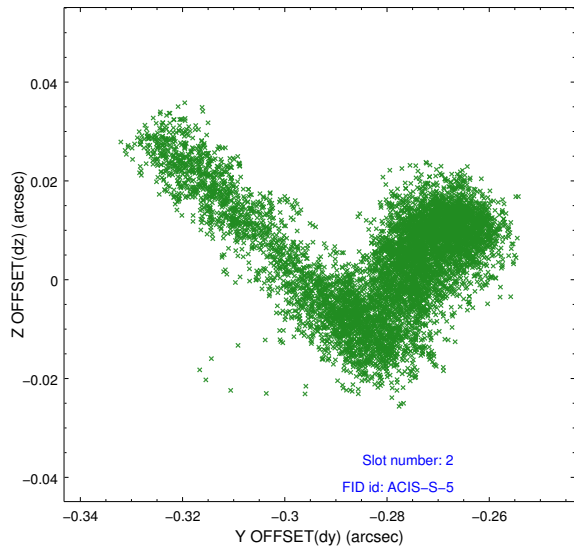
### 2.5.1 Slot 0



## 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)	2016.05.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	28.033300215721

## A.2 Comments