

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 2799 - L2 Version 3
Chandra X-Ray Center

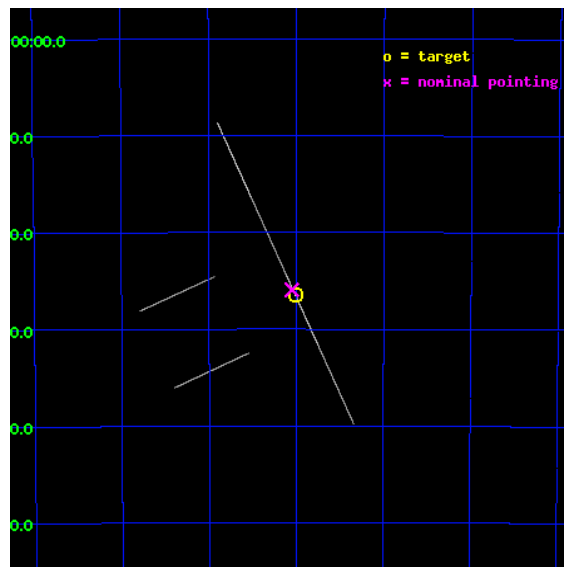
L2 Processing Date : Sep 30 2012

Contents

1	Front	2
2	OBI	3
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
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

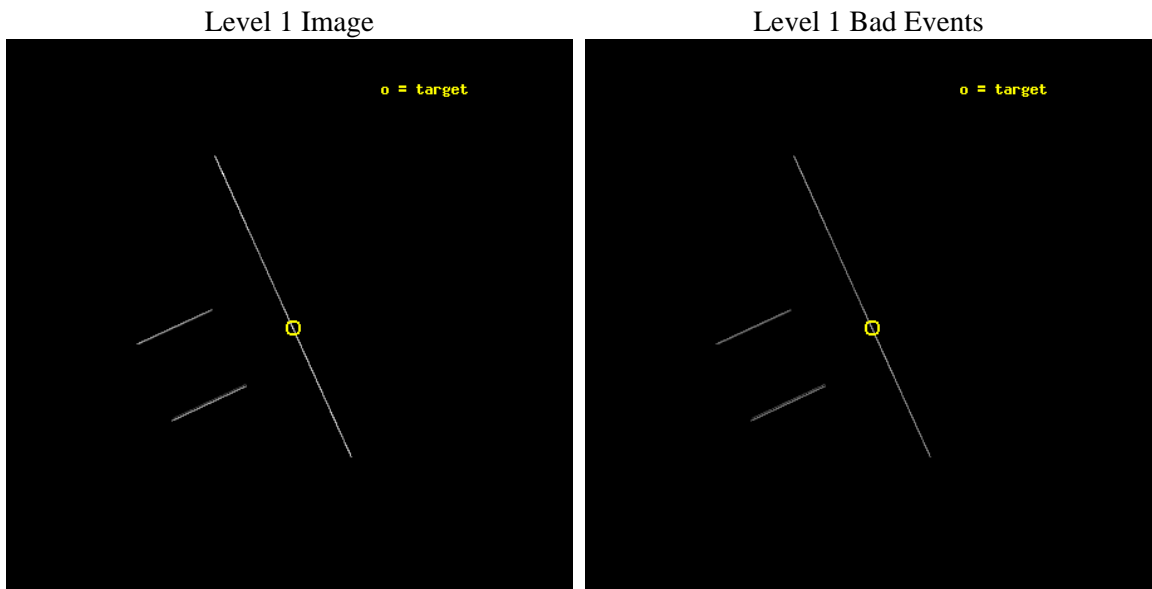
seq_num	500249	Sequence number
obs_id	2799	Observation id
title	THE ENIGMATIC X-RAY PULSATOR IN THE PKS 1209-51/52 SUPERNOVA REMNANT	
observer	Dr. Vyacheslav Zavlin	Principal investigator
object	1E1207.4-5209	Source name
ra_targ	182.503333	Observer's specified target RA [deg]
dec_targ	-52.440306	Observer's specified target Dec [deg]
ra_nom	182.51244364869	Nominal RA [deg]
dec_nom	-52.432335177842	Nominal Dec [deg]
roll_nom	65.334068247112	Nominal Roll [deg]
revision	3	Processing version of data
ontime	30394.042041138	Sum of GTIs [s]
livetime	30275.315314415	Livetime [s]
ontime2	30395.5	Sum of GTIs [s]
ontime3	30395.5	Sum of GTIs [s]
ontime5	30394.042042583	Sum of GTIs [s]
ontime6	30395.5	Sum of GTIs [s]
ontime7	30394.042041138	Sum of GTIs [s]
ontime8	30395.5	Sum of GTIs [s]
l2events	360961	Number of level 2 events



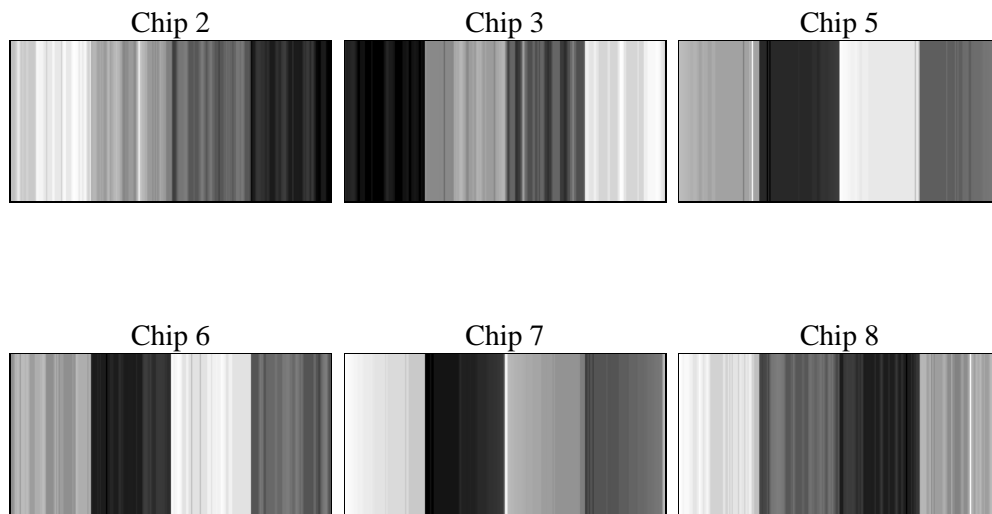
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	30000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	30394.042041138	Sum of GTIs [s]
caldbver	4.5.2	 	ontime2	30395.5	Sum of GTIs [s]
date	2012-09-30T04:19:45	Date and time of file creation	ontime3	30395.5	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	30394.042042583	Sum of GTIs [s]
			ontime6	30395.5	Sum of GTIs [s]
			ontime7	30394.042041138	Sum of GTIs [s]
			ontime8	30395.5	Sum of GTIs [s]
			l1events	609629	Number of level 1 events

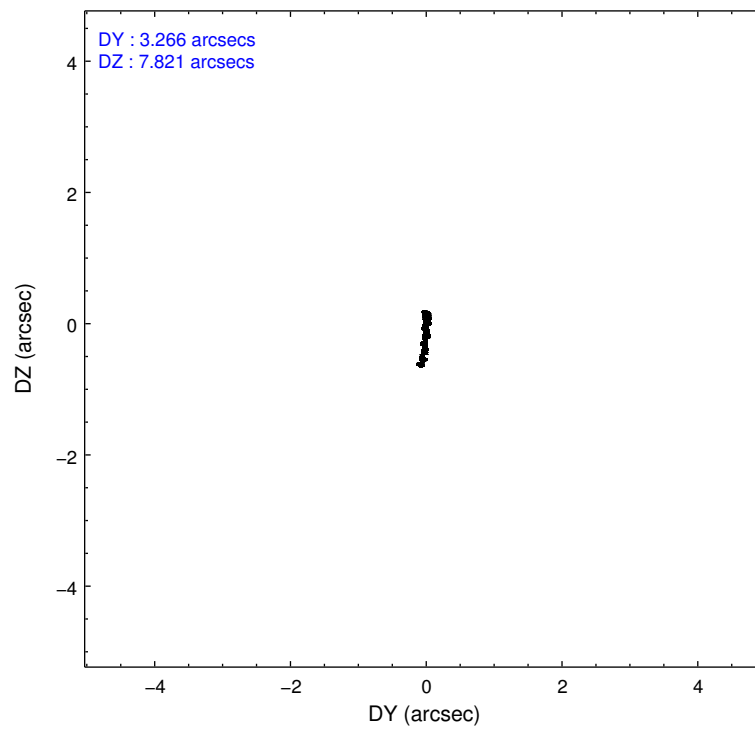
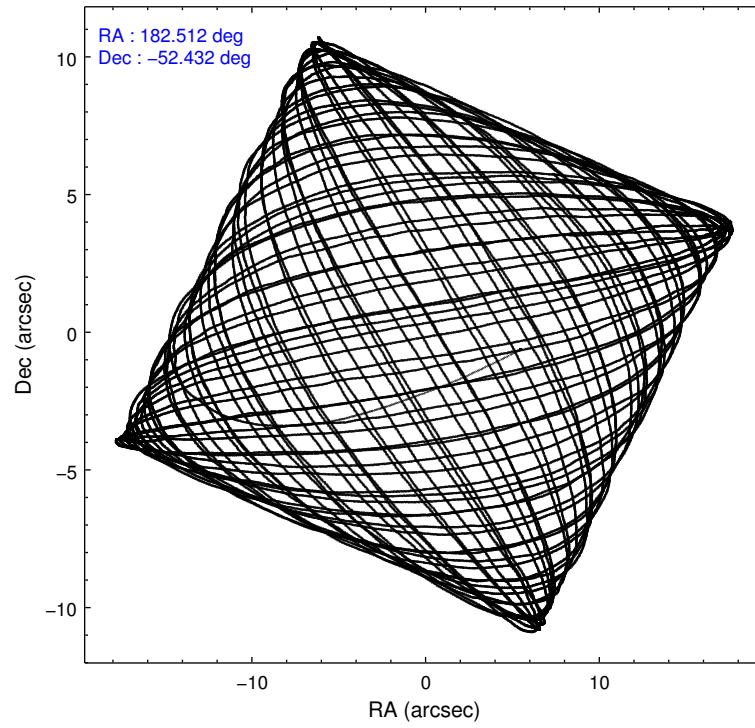
2.1.4 Events

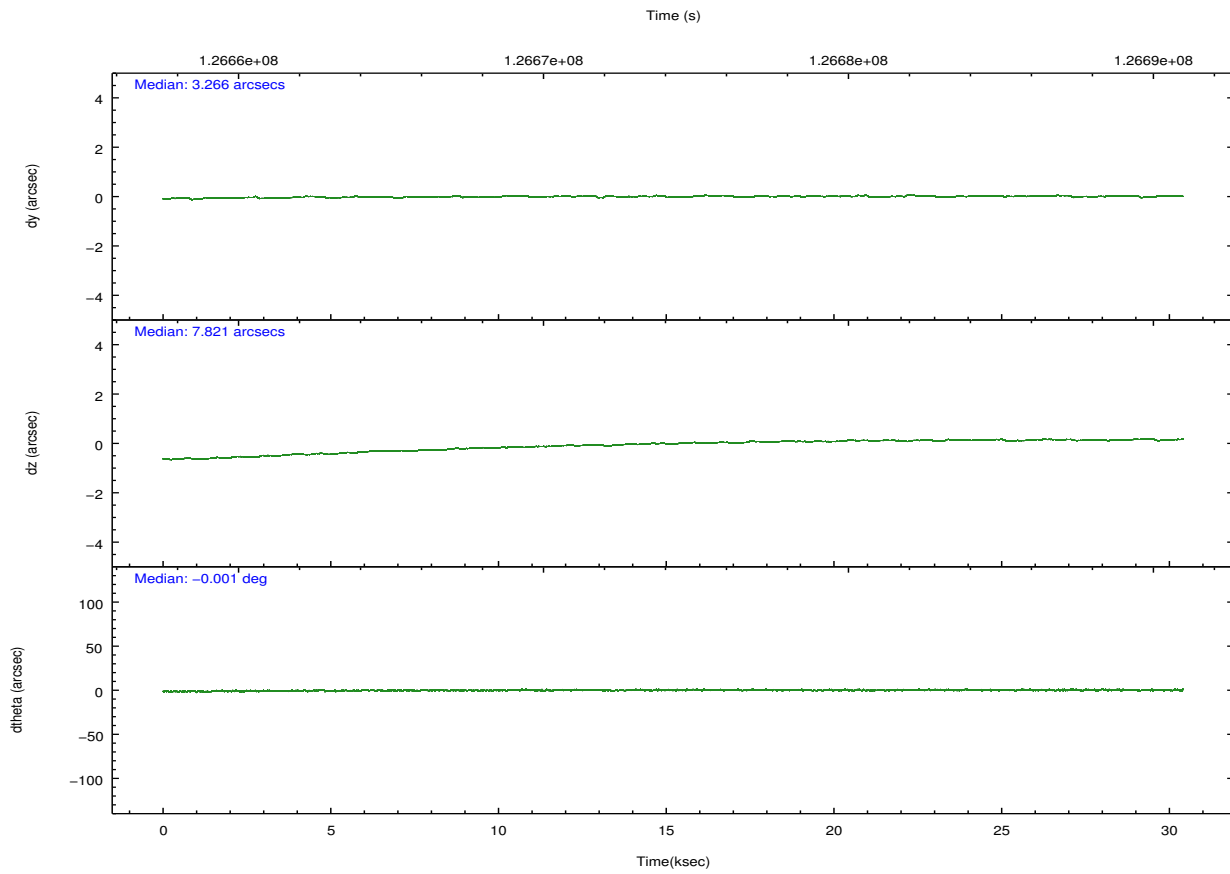
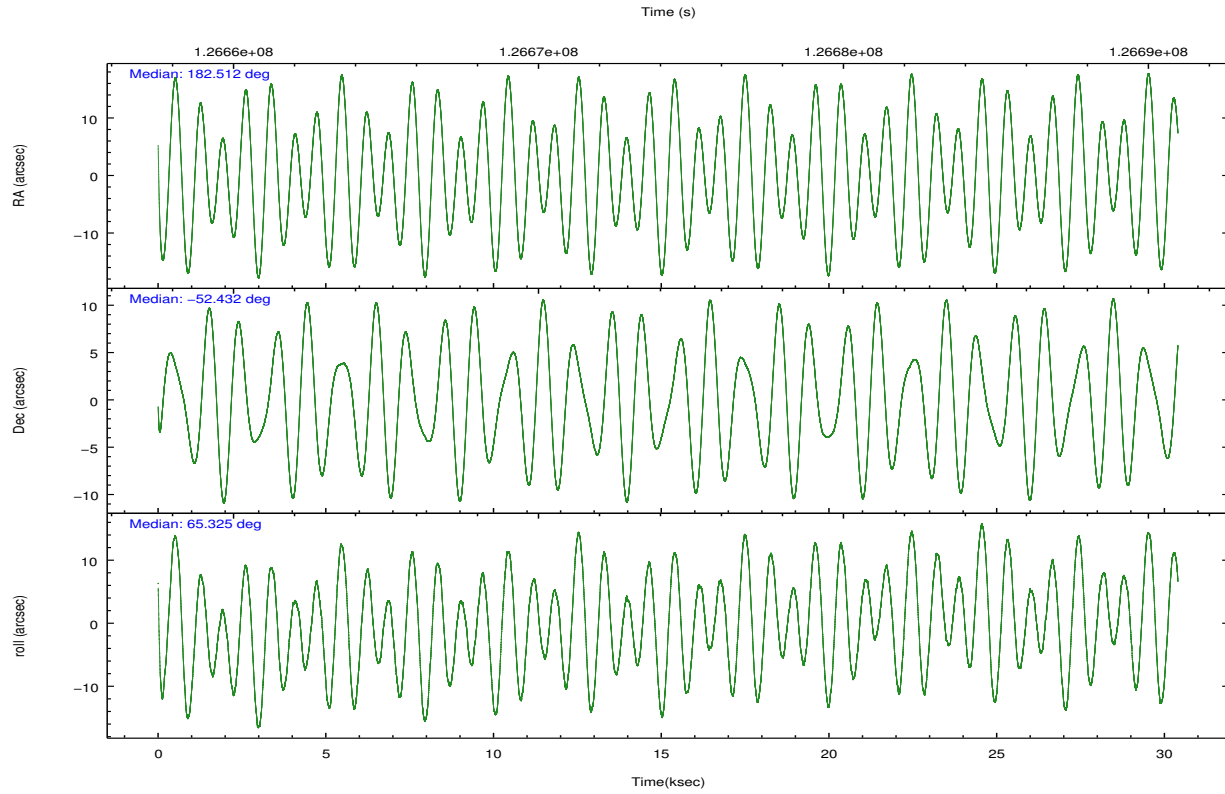
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	42081	45229	205280	42221	143600	131218	grade 0 events	5783	6147	60317	4211	17985	31580
rejected events	7208	7518	21468	8273	23624	13304		13%	13%	29%	9%	12%	24%
rejected %	17%	16%	10%	19%	16%	10%	grade 1 events	142	132	334	117	317	438
								0%	0%	0%	0%	0%	0%
							grade 2 events	14398	15744	49138	13945	30519	24749
								34%	34%	23%	33%	21%	18%
							grade 3 events	4315	5030	4354	4494	10447	21182
								10%	11%	2%	10%	7%	16%
							grade 4 events	4445	4367	4215	4344	10200	19070
								10%	9%	2%	10%	7%	14%
							grade 5 events	6401	6643	16911	7448	21001	10580
								15%	14%	8%	17%	14%	8%
							grade 6 events	6597	7166	70011	7662	53131	23619
								15%	15%	34%	18%	36%	17%
							grade 7 events	0	0	0	0	0	0
								0%	0%	0%	0%	0%	0%

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	CC33_FAINT	CC33_FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	182.517135	182.5124436486864	Subarray requested	NONE	NONE
[deg] Pointing Dec	-52.459439	-52.4323351778415	Alternating exposures requested	N	N
[deg] Pointing Roll	65.181164	65.3340682471121	[s] Primary exposure time	0.000000	0
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	126659451.184000	126658369.44154			
Observation start date	2002-01-05T23:09:47	2002-01-05T22:52:49			
[s] Observation end time (MET)	126689451.184000	126690011.70531			
Observation end date	2002-01-06T07:29:47	2002-01-06T07:40:11			
Read mode	CONTINUOUS	CONTINUOUS			

2.3 Aspect



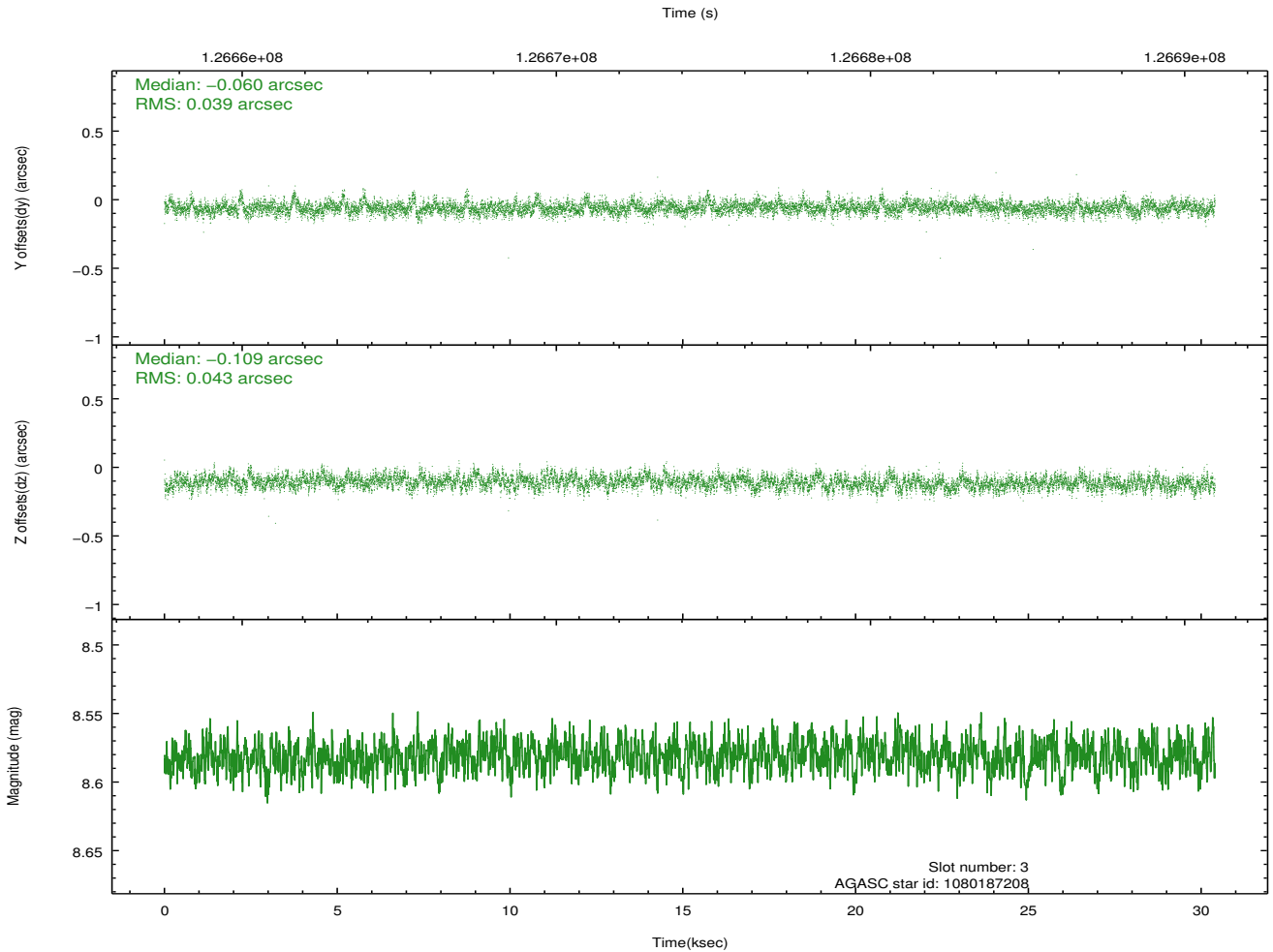
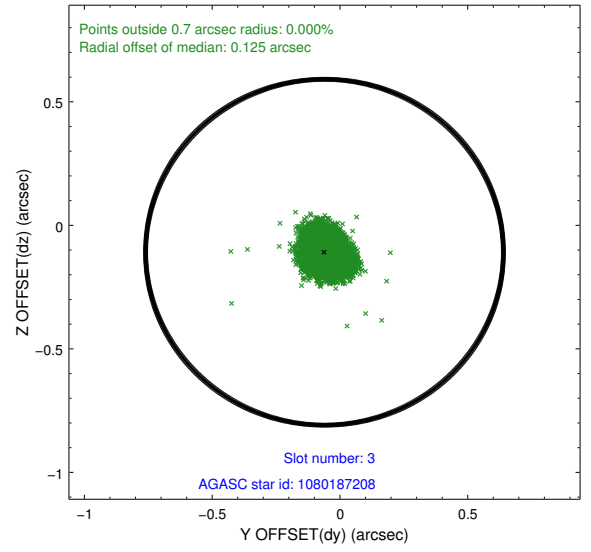
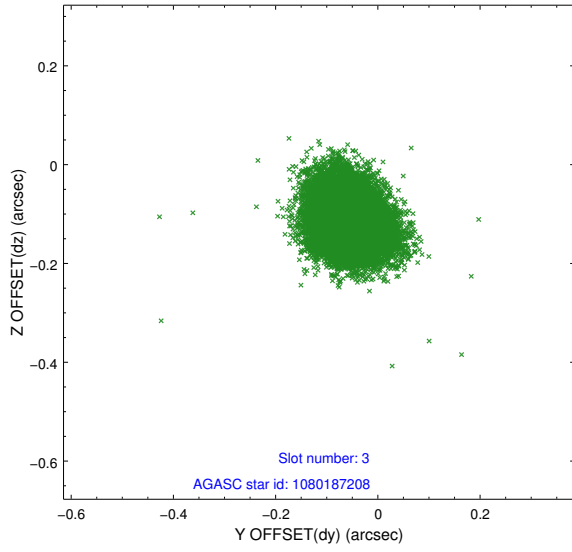


Slot Statistics

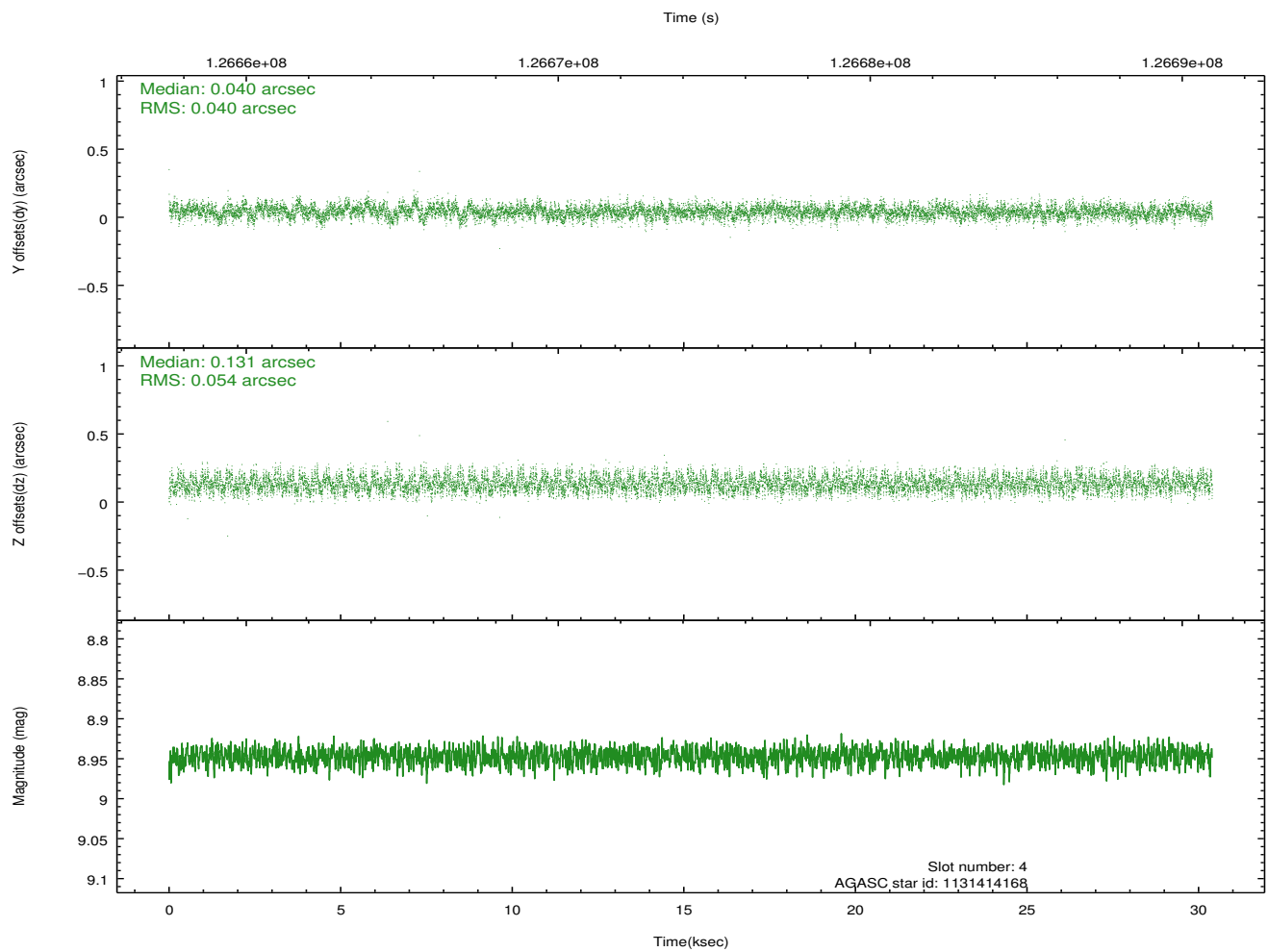
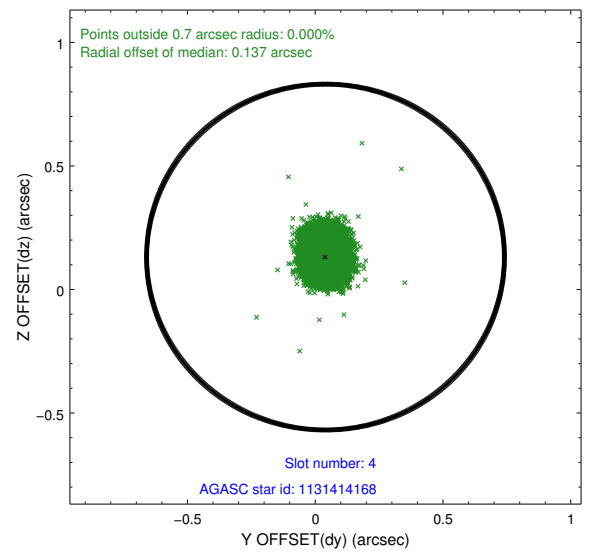
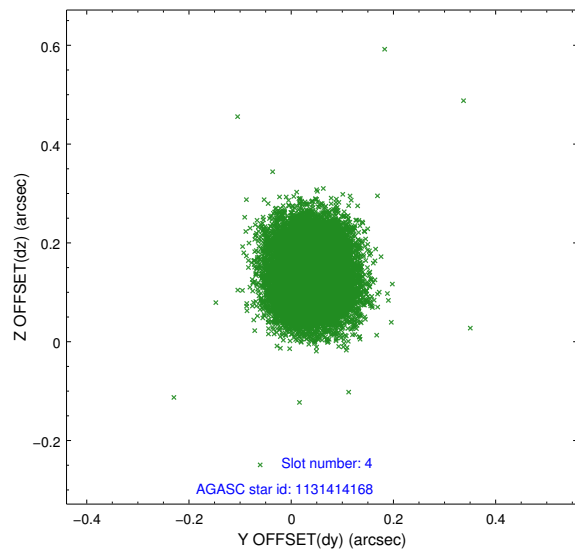
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-3	7.36	7415	-0.036	-0.041	0.015	0.030	0.000000	0.000000	57.17	-1857.97
1	FID	ACIS-S-5	7.24	7415	0.033	-0.011	0.006	0.011	0.000000	0.000000	-1808.91	173.10
2	FID	ACIS-S-6	7.36	7415	-0.020	0.061	0.015	0.032	0.000000	0.000000	405.64	817.08
3	GUIDE	1080187208	8.58	14828	-0.060	-0.109	0.061	0.100	182.421317	-51.851770	1895.94	1111.27
4	GUIDE	1131414168	8.95	14823	0.040	0.131	0.072	0.114	183.224863	-52.915912	-852.87	-2087.81
5	GUIDE	1131419104	8.55	14823	0.185	-0.097	0.076	0.121	181.819570	-52.704202	-1444.99	1007.15
6	GUIDE	1080164440	8.96	14822	-0.058	-0.129	0.073	0.119	181.986340	-52.264623	141.60	1353.47
7	GUIDE	1080309976	9.40	14799	-0.108	0.204	0.105	0.182	183.762069	-52.214320	1932.55	-2131.81

2.4 Star Slots

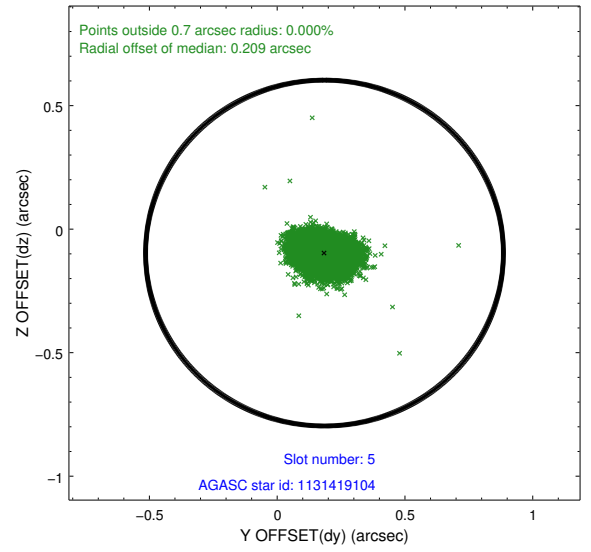
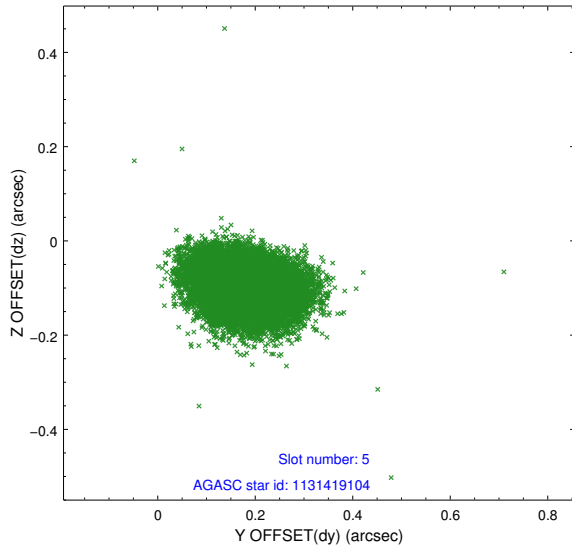
2.4.1 Slot 3



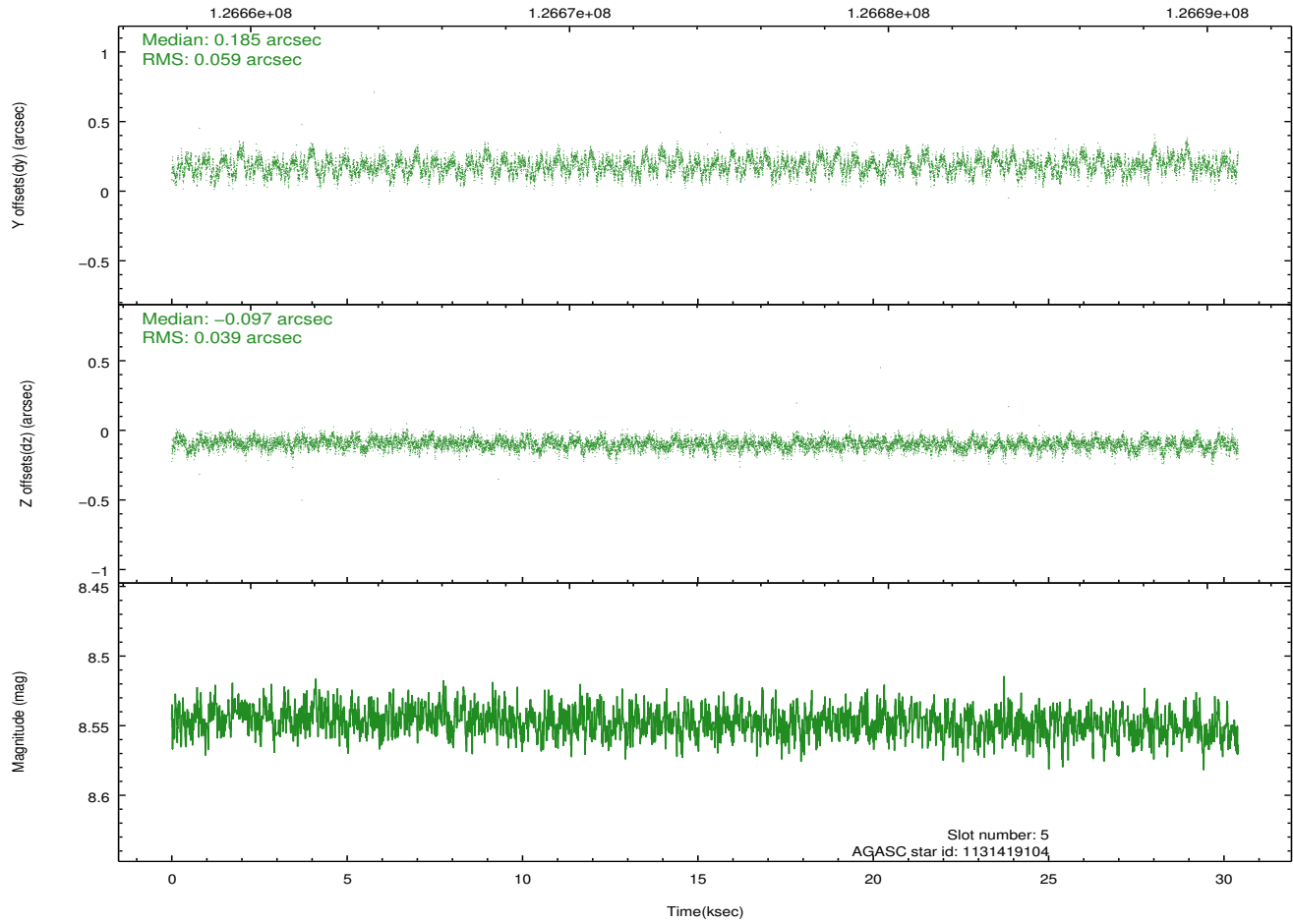
2.4.2 Slot 4



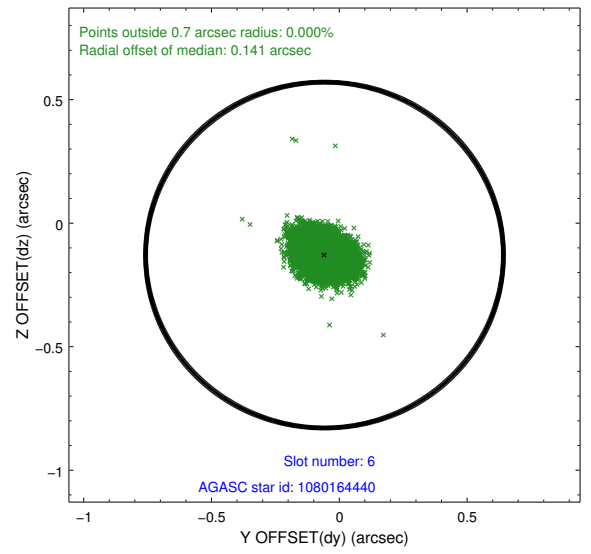
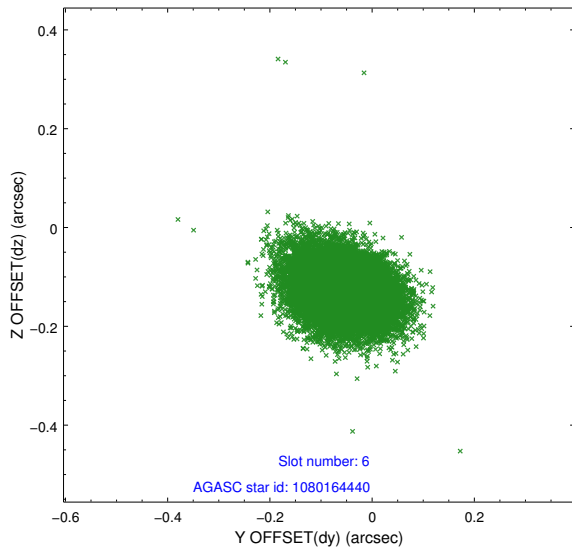
2.4.3 Slot 5



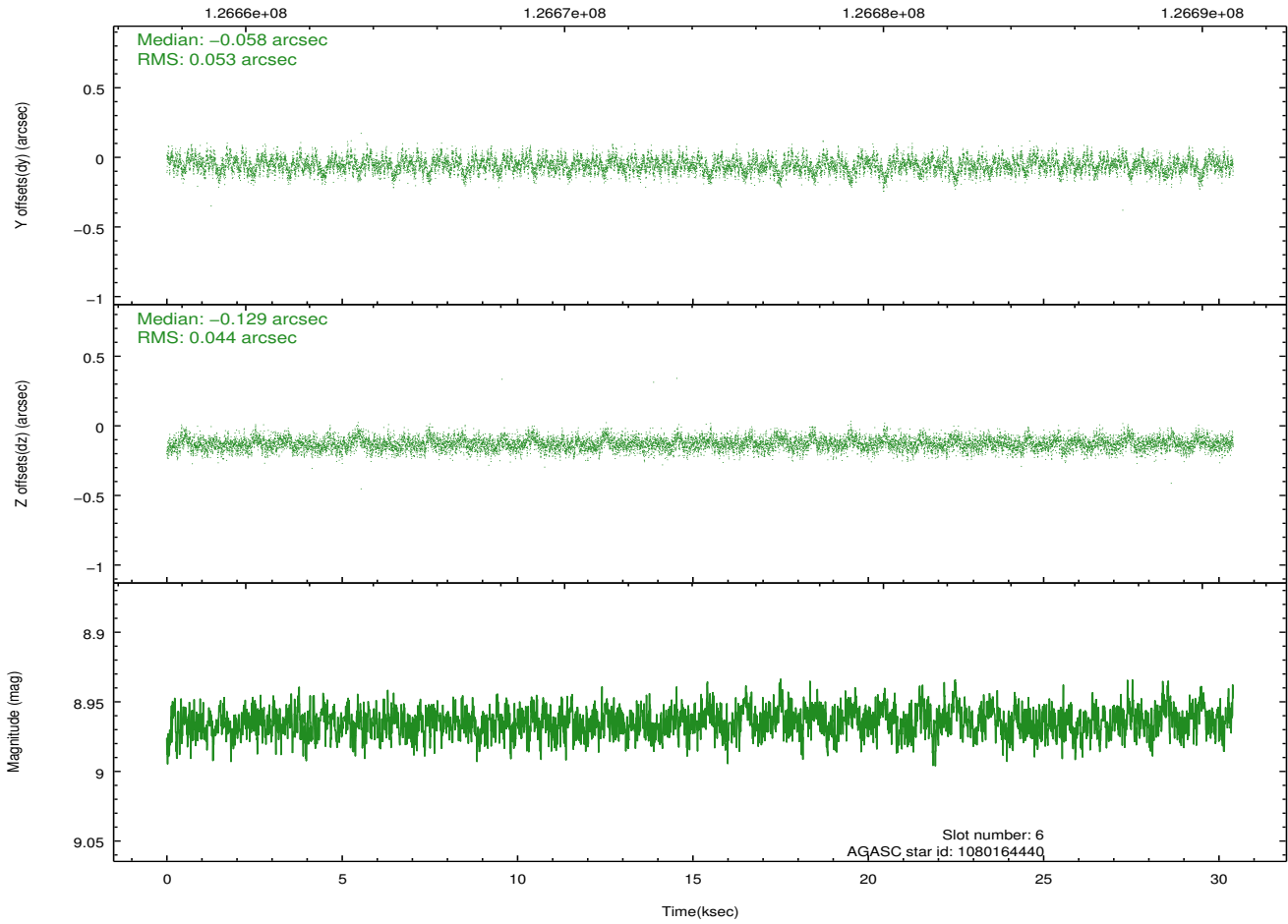
Time (s)



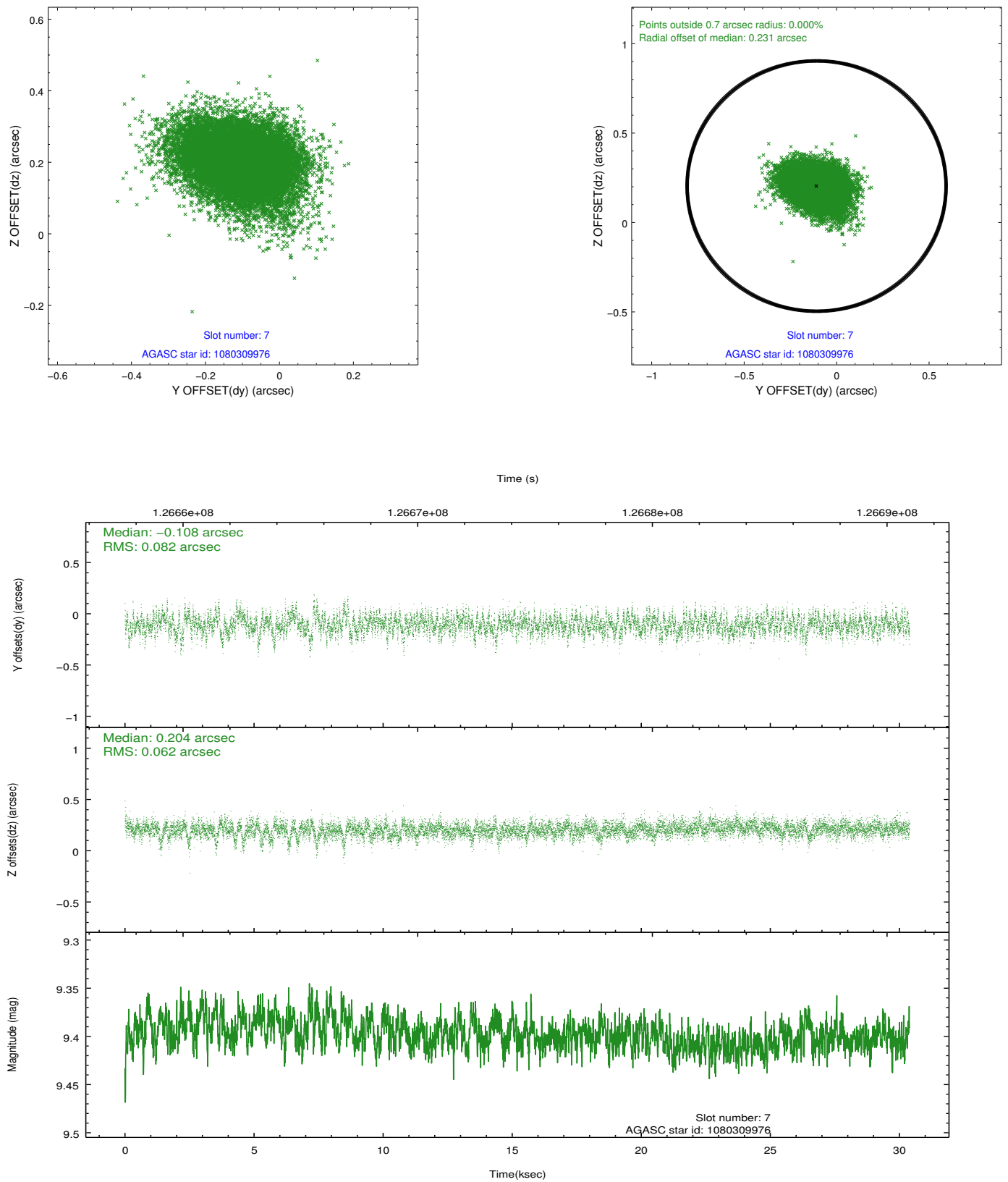
2.4.4 Slot 6



Time (s)

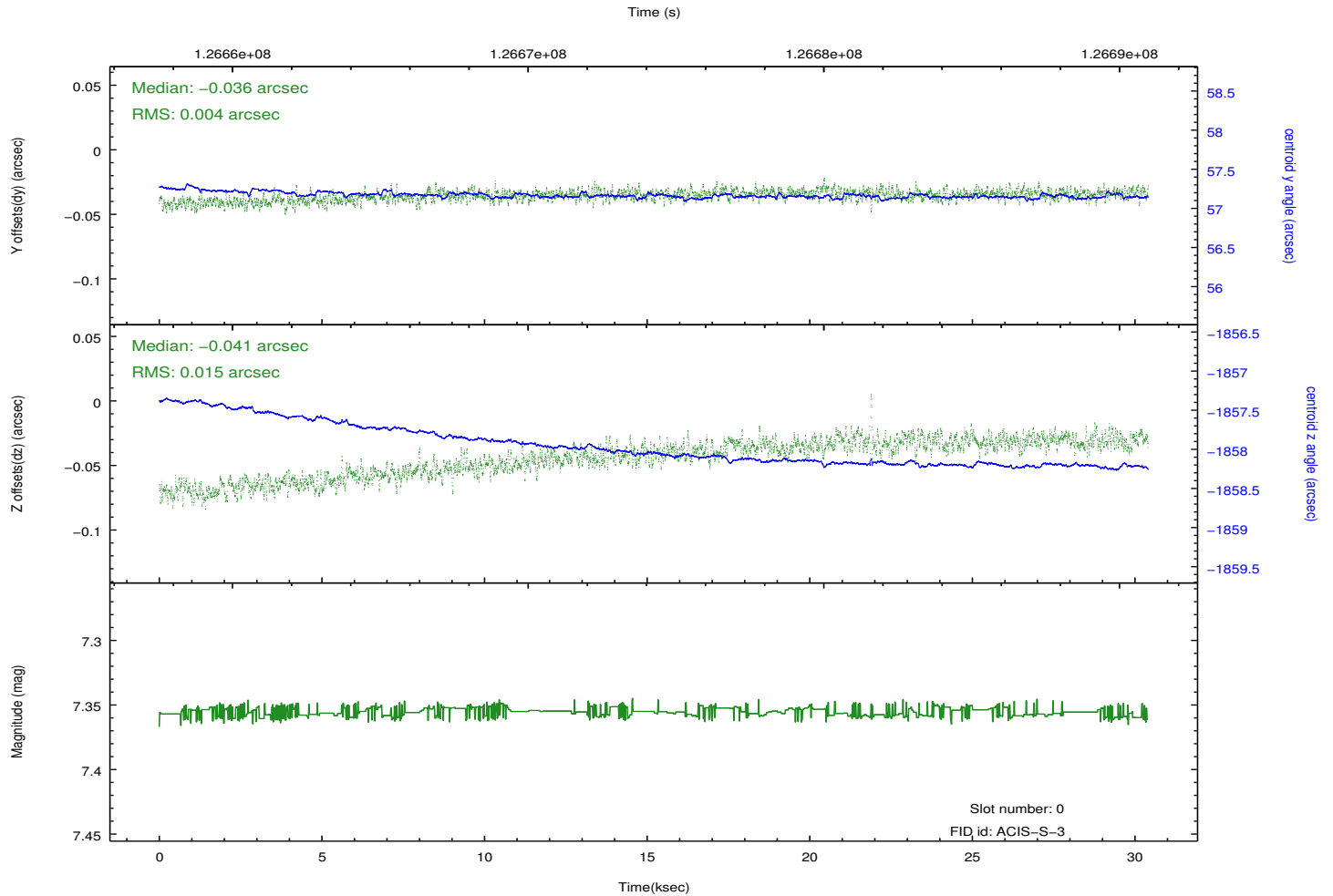
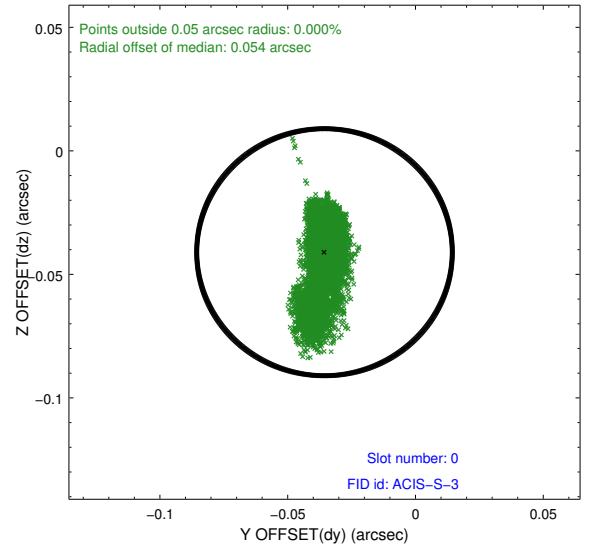
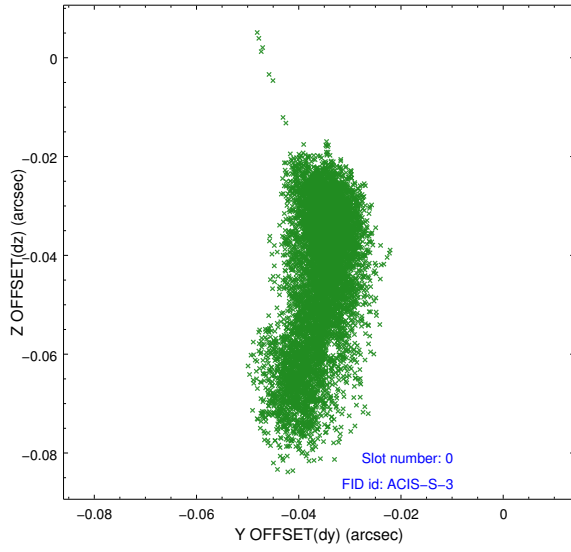


2.4.5 Slot 7

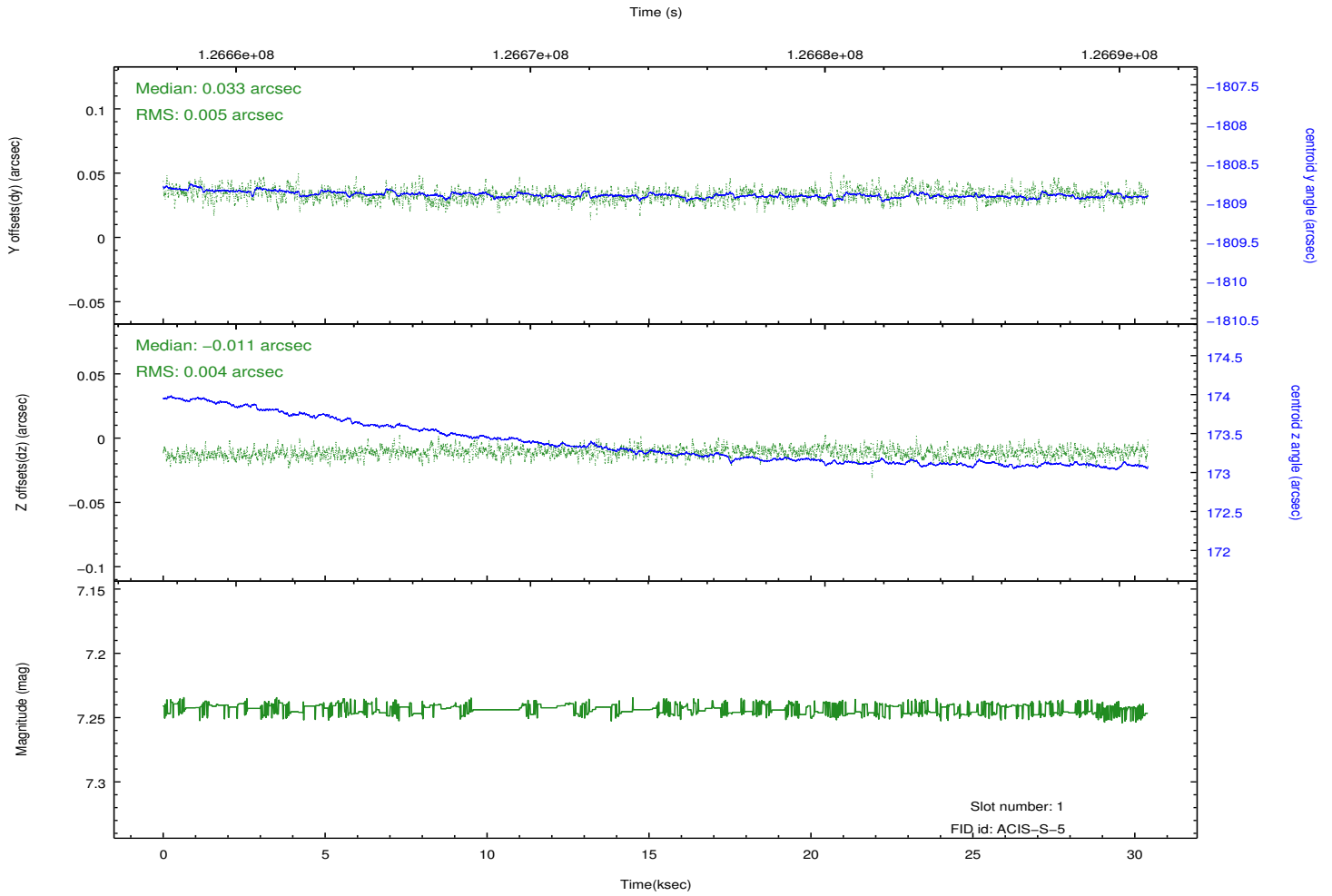
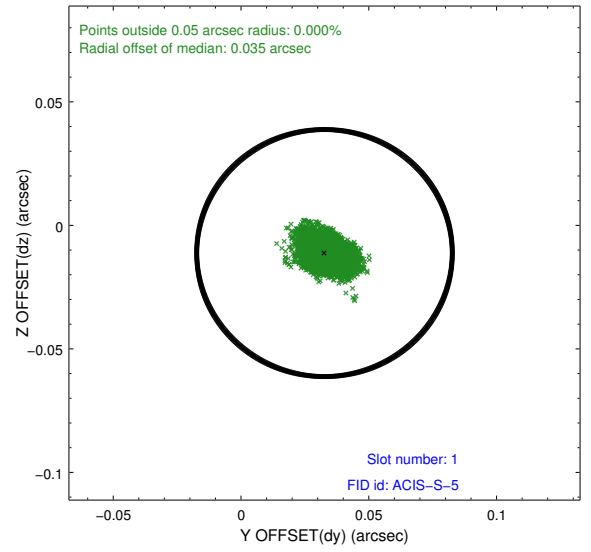
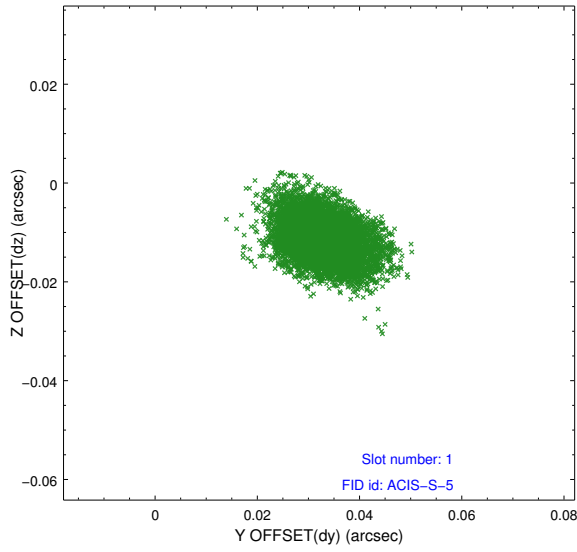


2.5 FID Slots

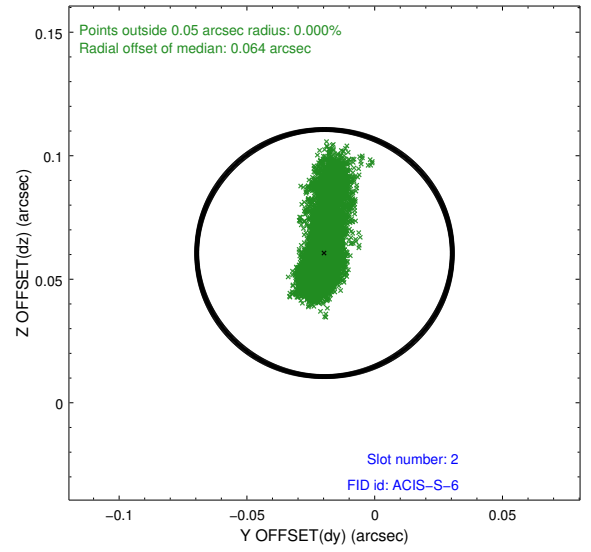
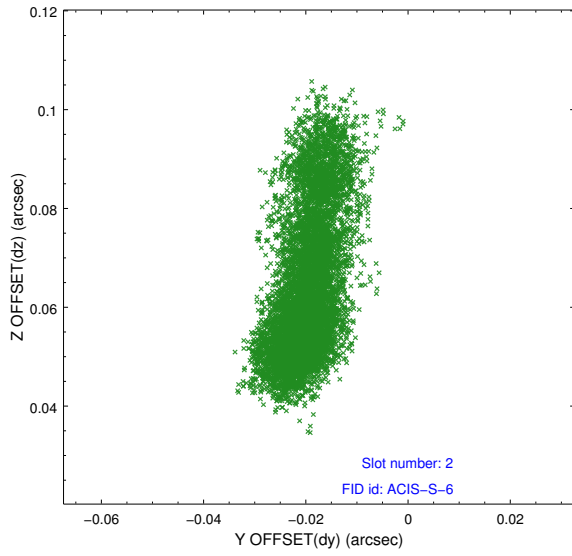
2.5.1 Slot 0



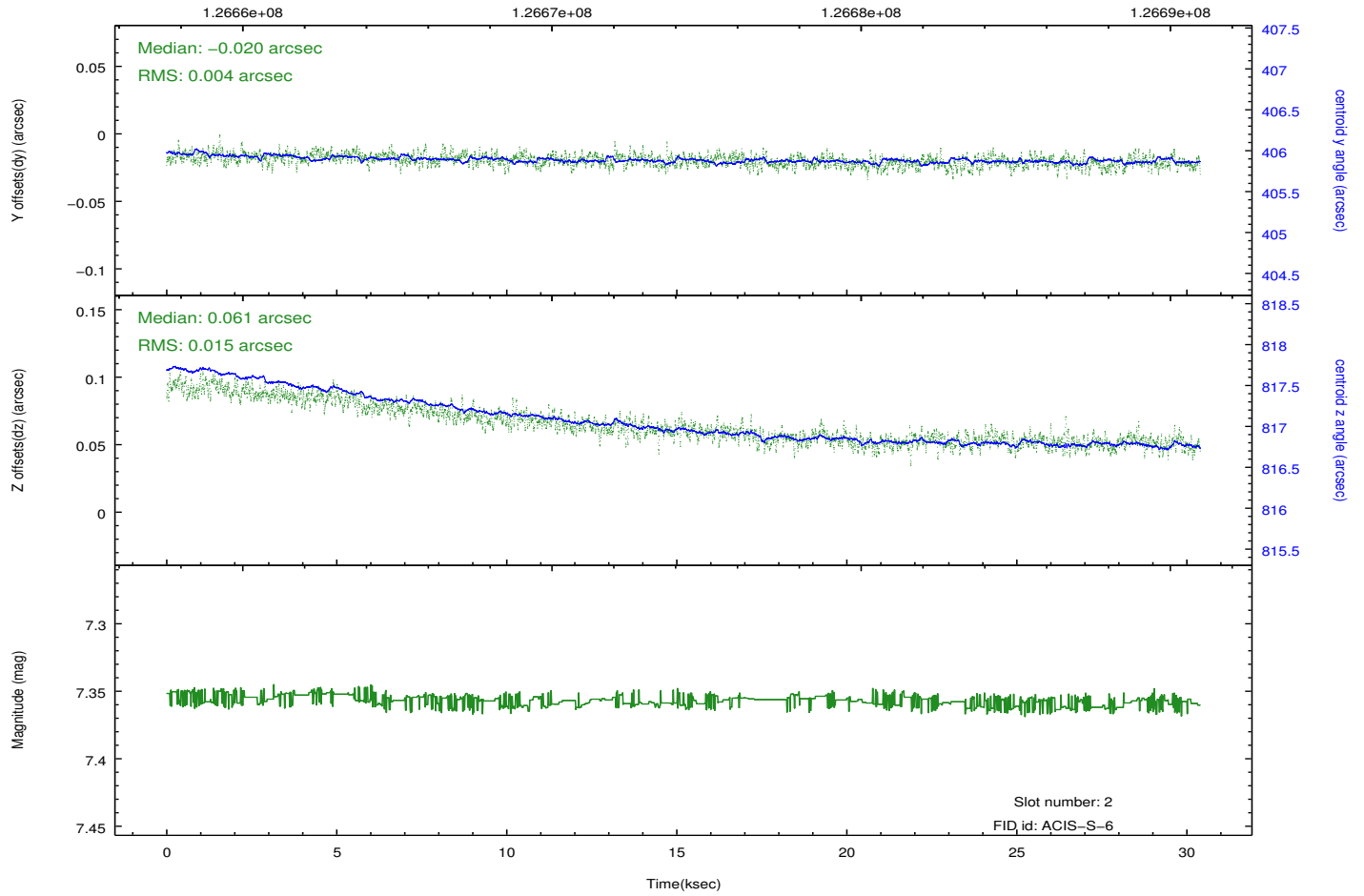
2.5.2 Slot 1



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.10.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.397

A.2 Comments