

V&V Reference Report

L2 ASCDS Version : 10.3

Observation 17175 - L2 Version 1
Chandra X-Ray Center

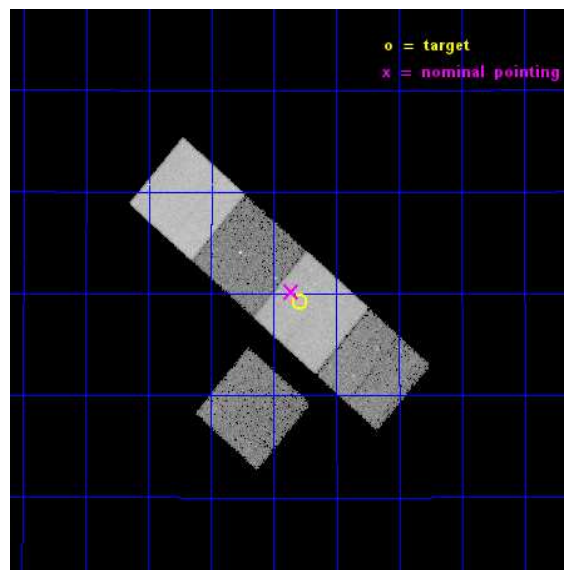
L2 Processing Date : Nov 9 2014

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1 Front

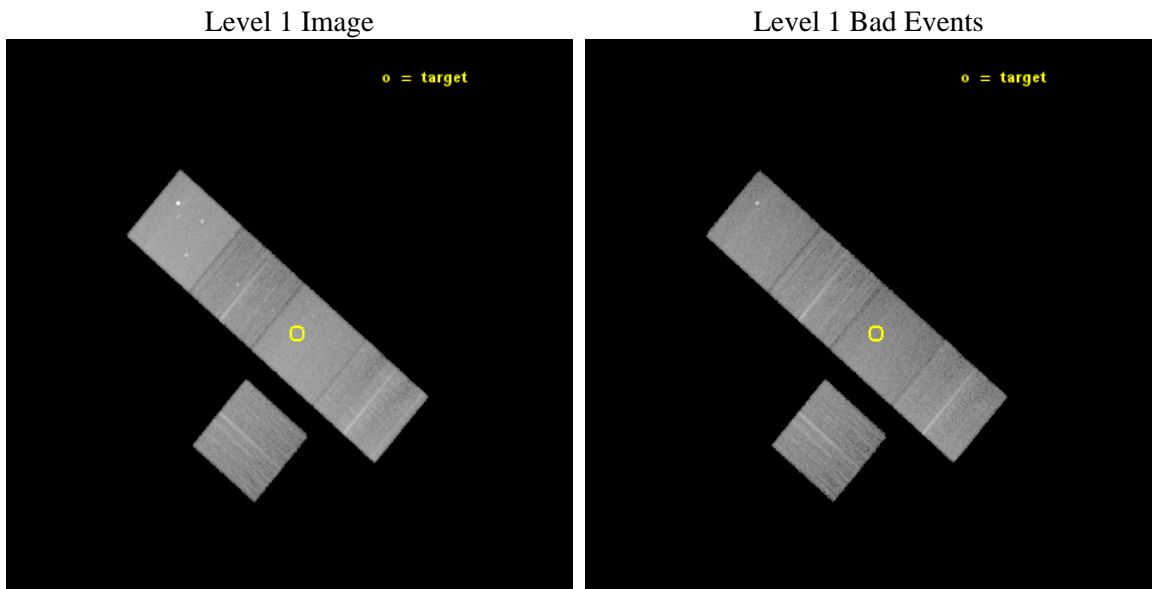
seq_num	801458	Sequence number
obs_id	17175	Observation id
title	The Burst Cluster: Dark Matter in a Merging Cluster Host of the Short Gamma-Ray Burst GRB050509B	Proposal title
observer	Prof. Craig Sarazin	Principal investigator
object	ZwCl 1234.0+02916	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	189.074167	Observer's specified target RA [deg]
dec_targ	28.9875	Observer's specified target Dec [deg]
ra_nom	189.08975683456	Nominal RA [deg]
dec_nom	29.003671155841	Nominal Dec [deg]
roll_nom	40.705030525408	Nominal Roll [deg]
revision	1	Processing version of data
ontime	29273.300225139	Sum of GTIs [s]
livetime	28890.823007007	Livetime [s]
ontime3	29270.159284711	Sum of GTIs [s]
ontime5	29273.300225139	Sum of GTIs [s]
ontime6	29267.018324375	Sum of GTIs [s]
ontime7	29273.300225139	Sum of GTIs [s]
ontime8	29270.159384191	Sum of GTIs [s]
l2events	241717	Number of level 2 events



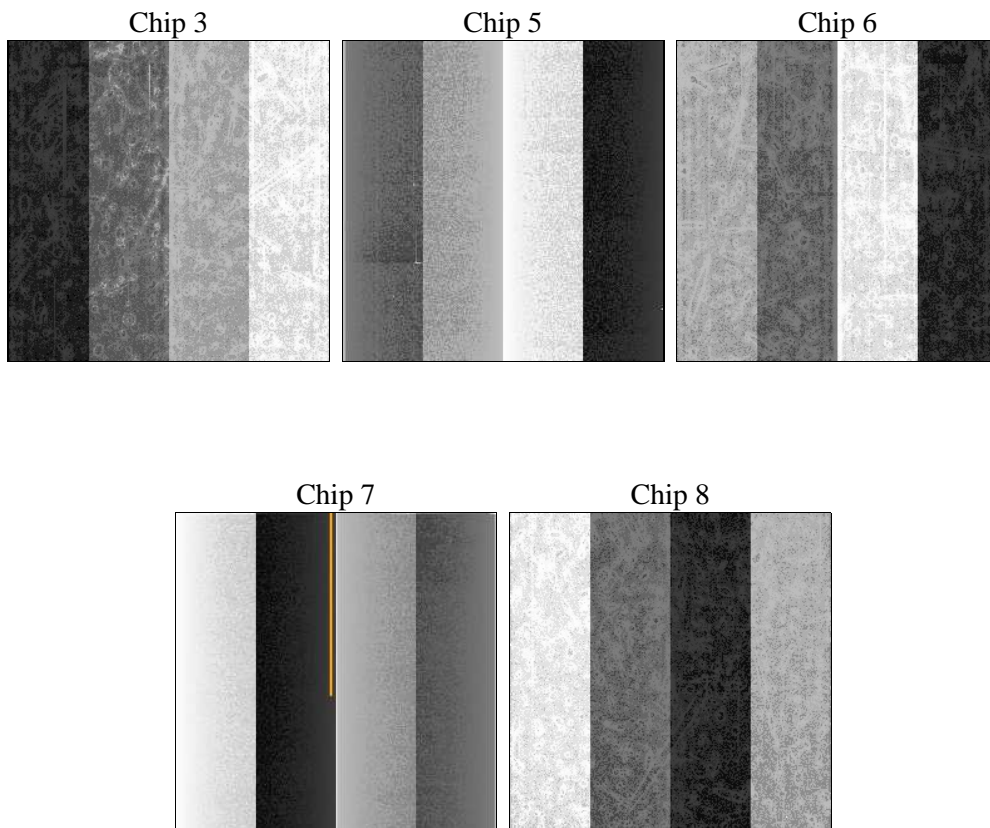
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	29208.100000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	29273.300225139	Sum of GTIs [s]
caldbver	4.6.4	 	ontime3	29270.159284711	Sum of GTIs [s]
date	2014-11-09T12:47:30	Date and time of file creation	ontime5	29273.300225139	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	29267.018324375	Sum of GTIs [s]
			ontime7	29273.300225139	Sum of GTIs [s]
			ontime8	29270.159384191	Sum of GTIs [s]
			l1events	910992	Number of level 1 events

2.1.4 Events

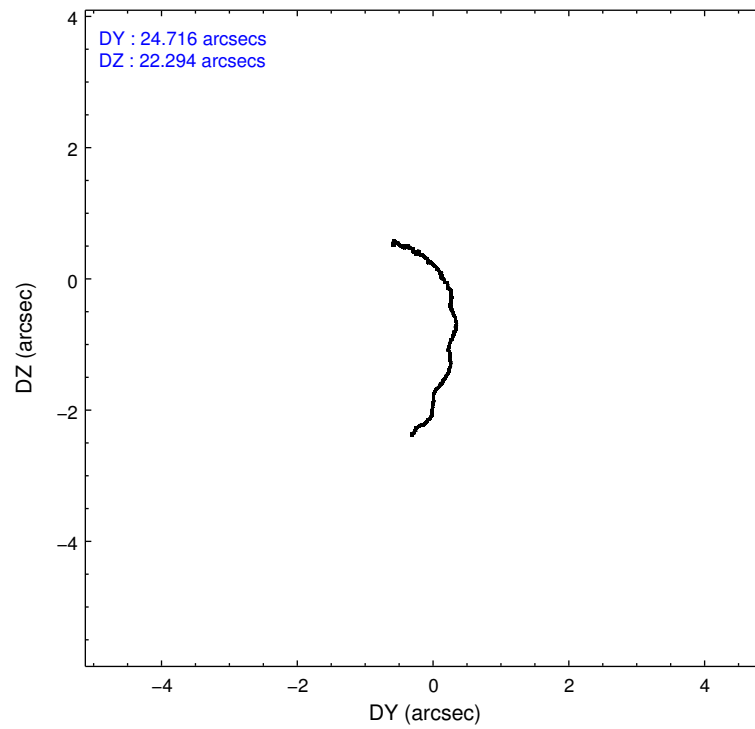
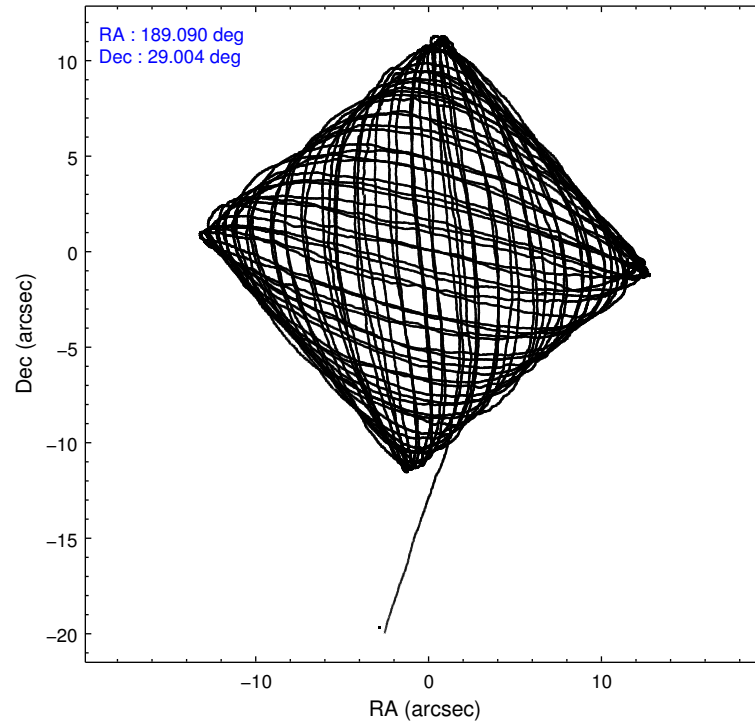
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	133750	245029	144562	198283	189368
rejected events	117536	124553	126490	111637	138084
rejected %	87%	50%	87%	56%	72%

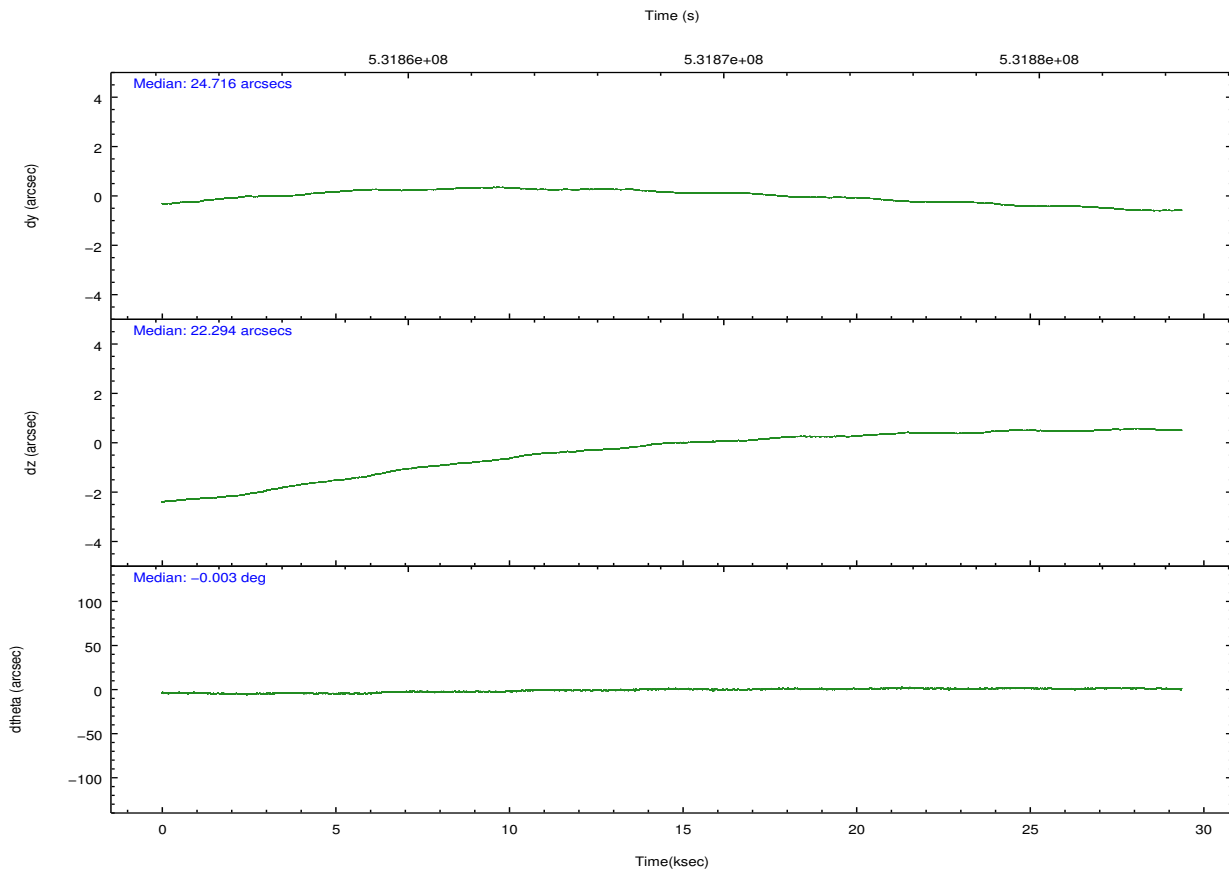
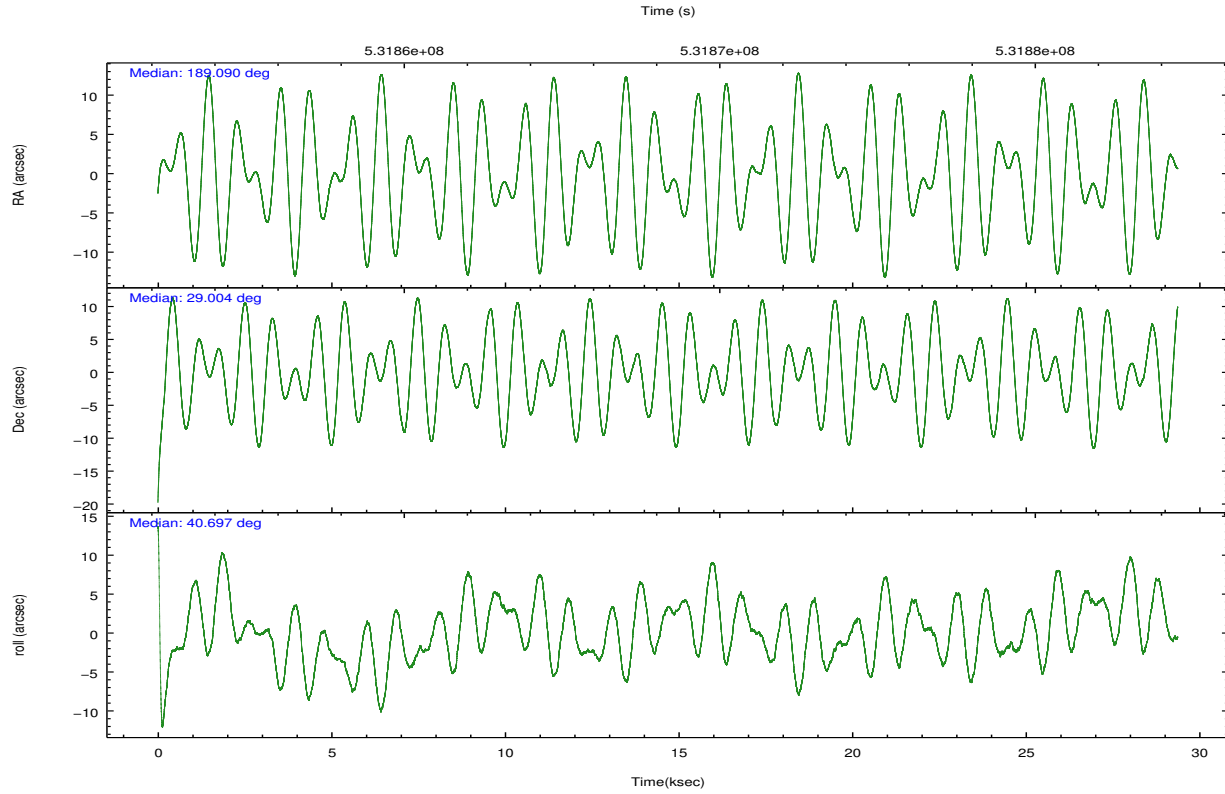
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	5807	13925	6384	7819	15482
	4%	5%	4%	3%	8%
grade 1 events	105	1339	73	228	148
	0%	0%	0%	0%	0%
grade 2 events	3515	37441	4098	17902	11937
	2%	15%	2%	9%	6%
grade 3 events	1720	3796	1747	7225	5397
	1%	1%	1%	3%	2%
grade 4 events	1755	3770	1702	7241	5190
	1%	1%	1%	3%	2%
grade 5 events	7646	17351	7421	19786	10732
	5%	7%	5%	9%	5%
grade 6 events	3420	61567	4143	46481	13285
	2%	25%	2%	23%	7%
grade 7 events	109782	105840	118994	91601	127197
	82%	43%	82%	46%	67%

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	189.079786	189.0897568345575	CCD I2 on	N	N
[deg] Pointing Dec	28.977659	29.00367115584118	CCD I3 on	O1	Y
[deg] Pointing Roll	40.553230	40.70503052540822	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	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	531853816.184000	531852618.95791	CCD S5 on	N	N
Observation start date	2014-11-08T17:09:09	2014-11-08T16:50:18	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	531883024.184000	531883250.05962	On-chip summing requested	N	N
Observation end date	2014-11-09T01:15:57	2014-11-09T01:20:50	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





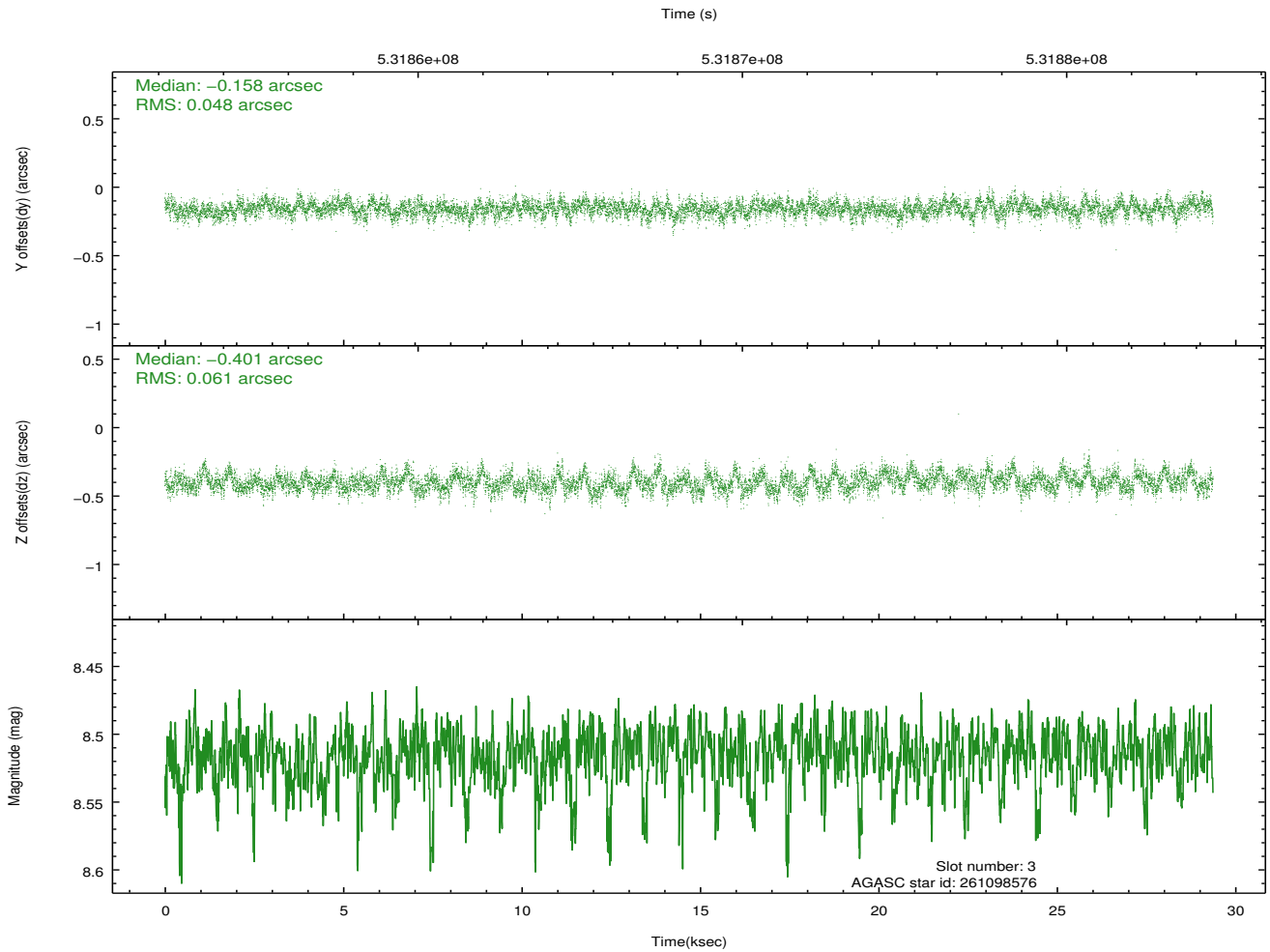
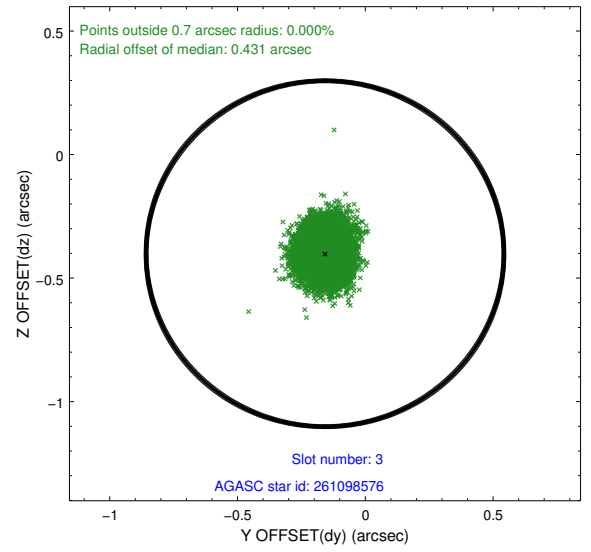
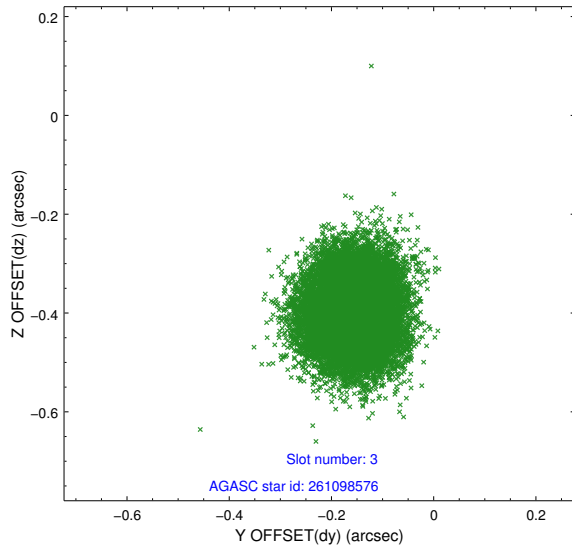
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.95	7164	-0.170	-0.038	0.033	0.051	0.000000	0.000000	-778.10	-1743.43
1	FID		ACIS-S-4	7.04	7164	0.349	0.091	0.010	0.027	0.000000	0.000000	2135.68	165.06
2	FID		ACIS-S-5	7.07	7164	-0.211	-0.045	0.034	0.047	0.000000	0.000000	-1830.87	158.72
3	GUIDE	used	261098576	8.52	14325	-0.158	-0.401	0.082	0.133	189.023127	29.453244	978.13	1416.54
4	GUIDE	used	261103048	8.51	14326	-0.050	0.376	0.088	0.143	189.630193	28.573081	378.54	-2234.10
5	GUIDE	used	261104288	7.99	14323	0.224	-0.285	0.092	0.148	188.700789	29.087433	-647.28	1076.52
6	GUIDE	used	261106752	7.79	14325	0.227	0.299	0.088	0.140	189.409570	28.629358	-22.05	-1628.69
7	GUIDE	used	261104944	8.91	14316	-0.243	0.008	0.136	0.215	189.811207	29.235429	2353.51	-787.10

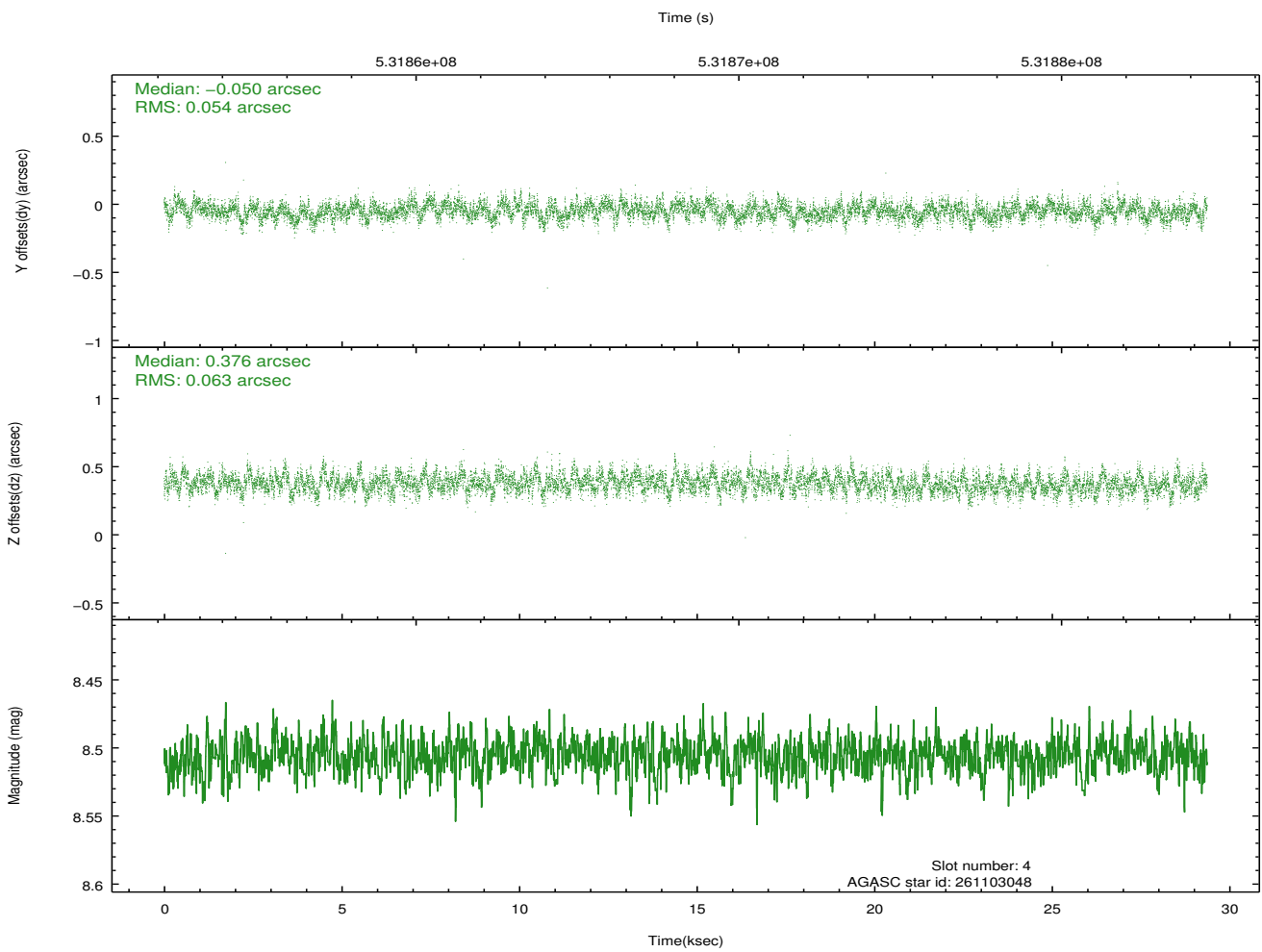
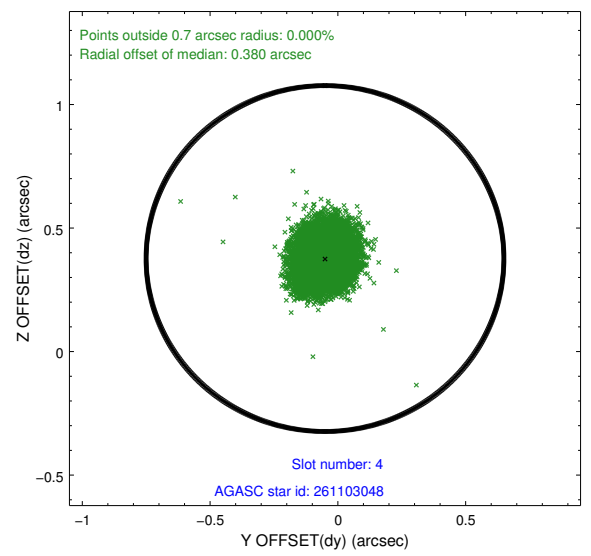
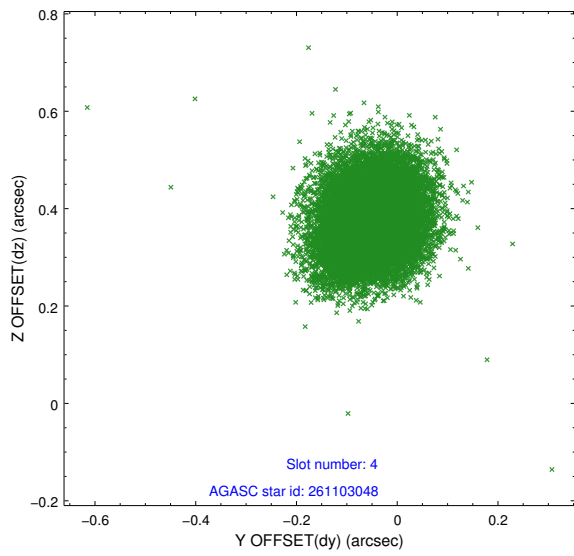
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2.4 Star Slots

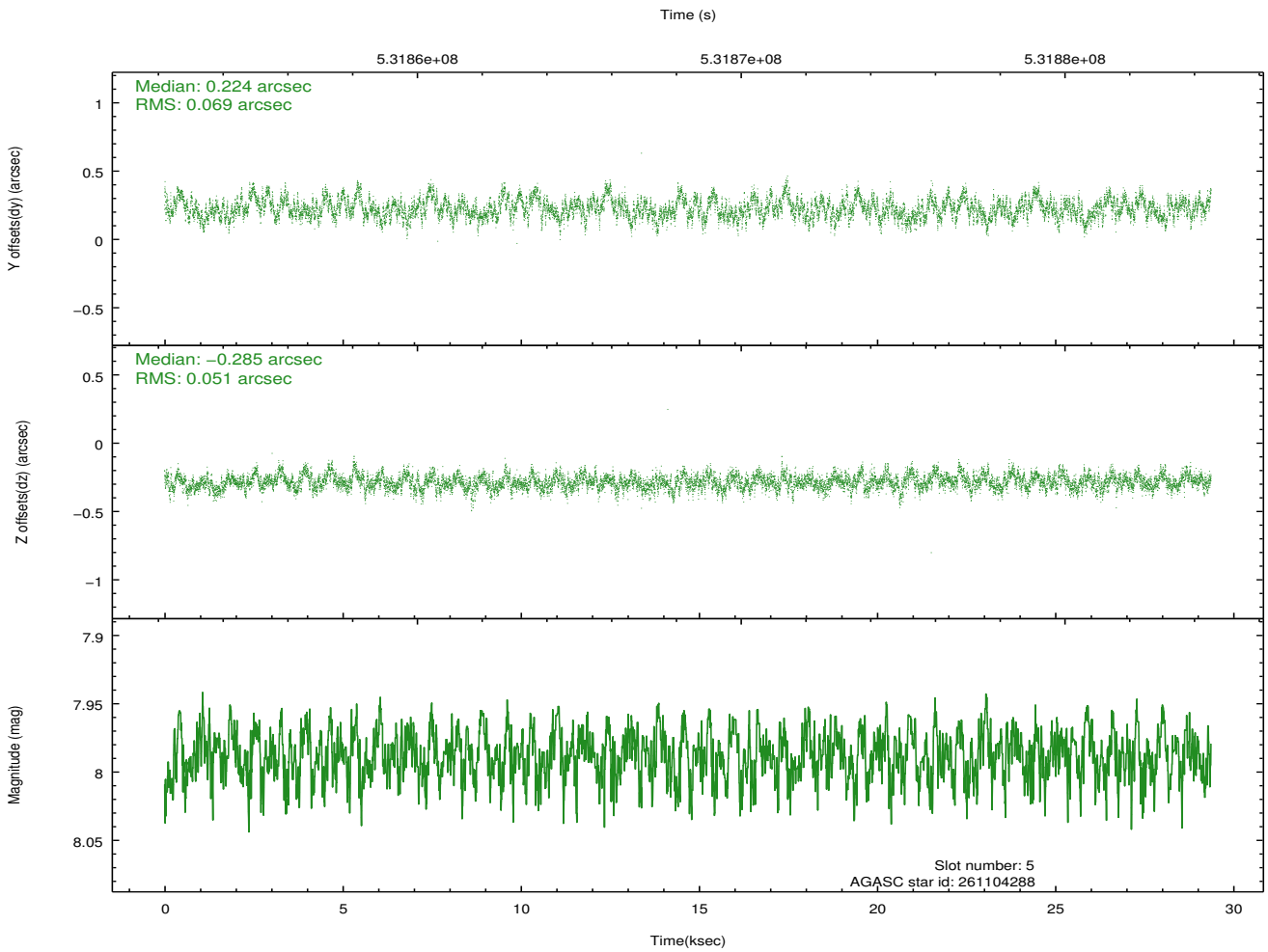
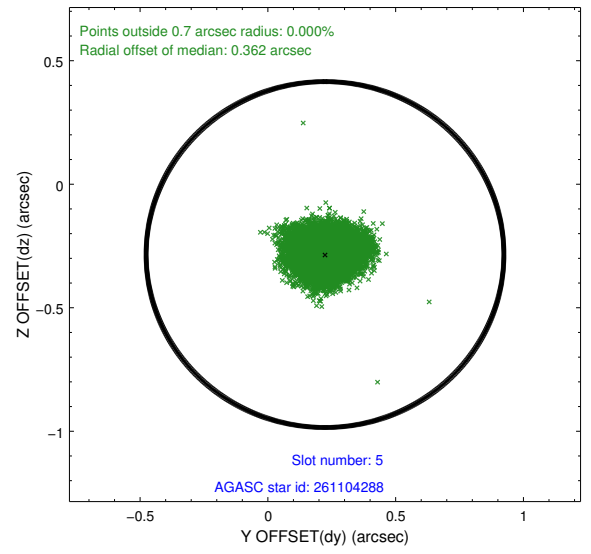
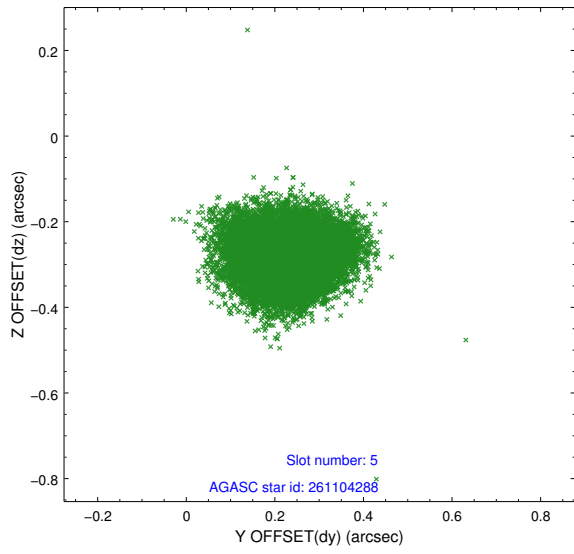
2.4.1 Slot 3



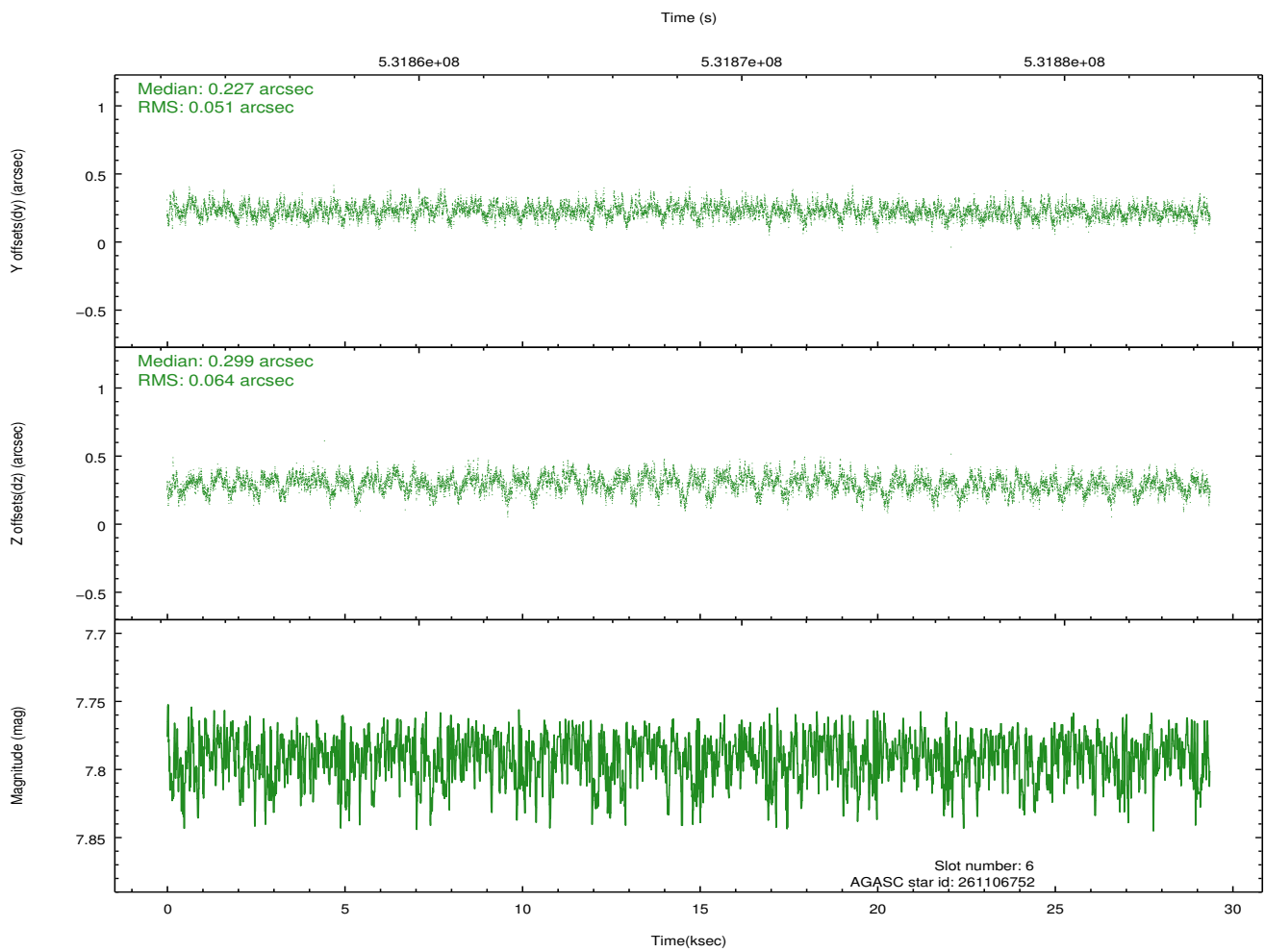
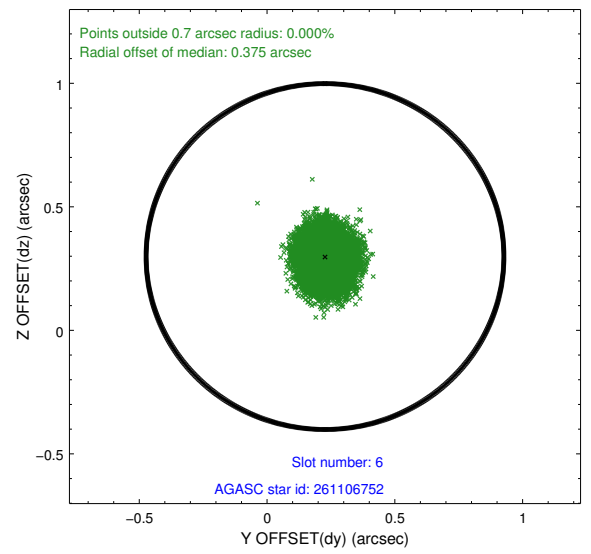
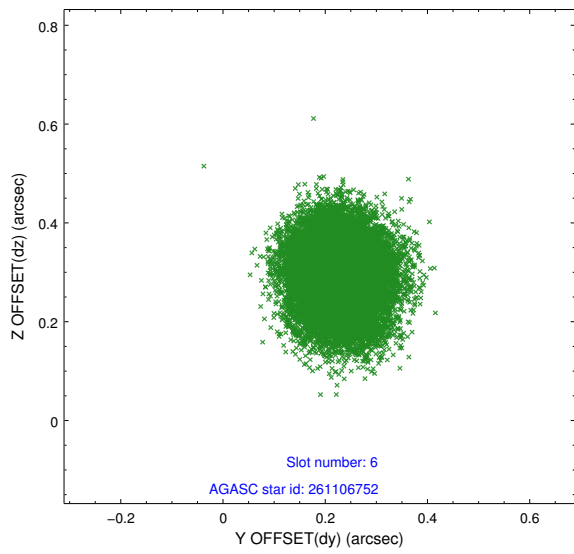
2.4.2 Slot 4



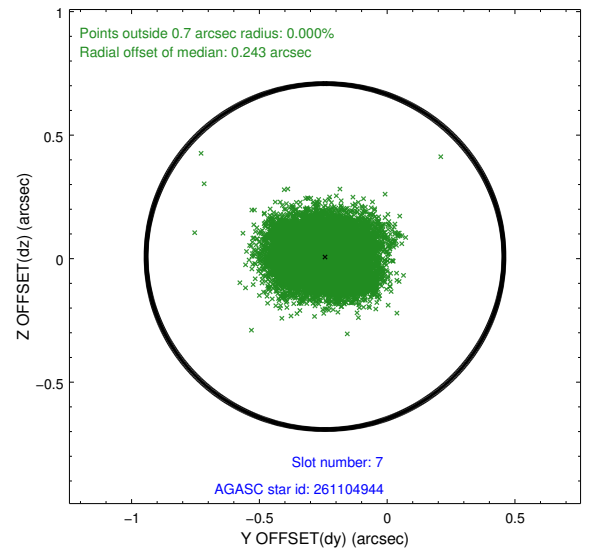
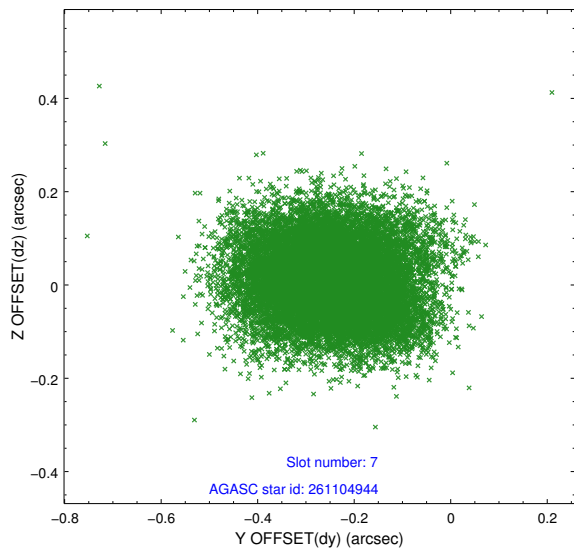
2.4.3 Slot 5



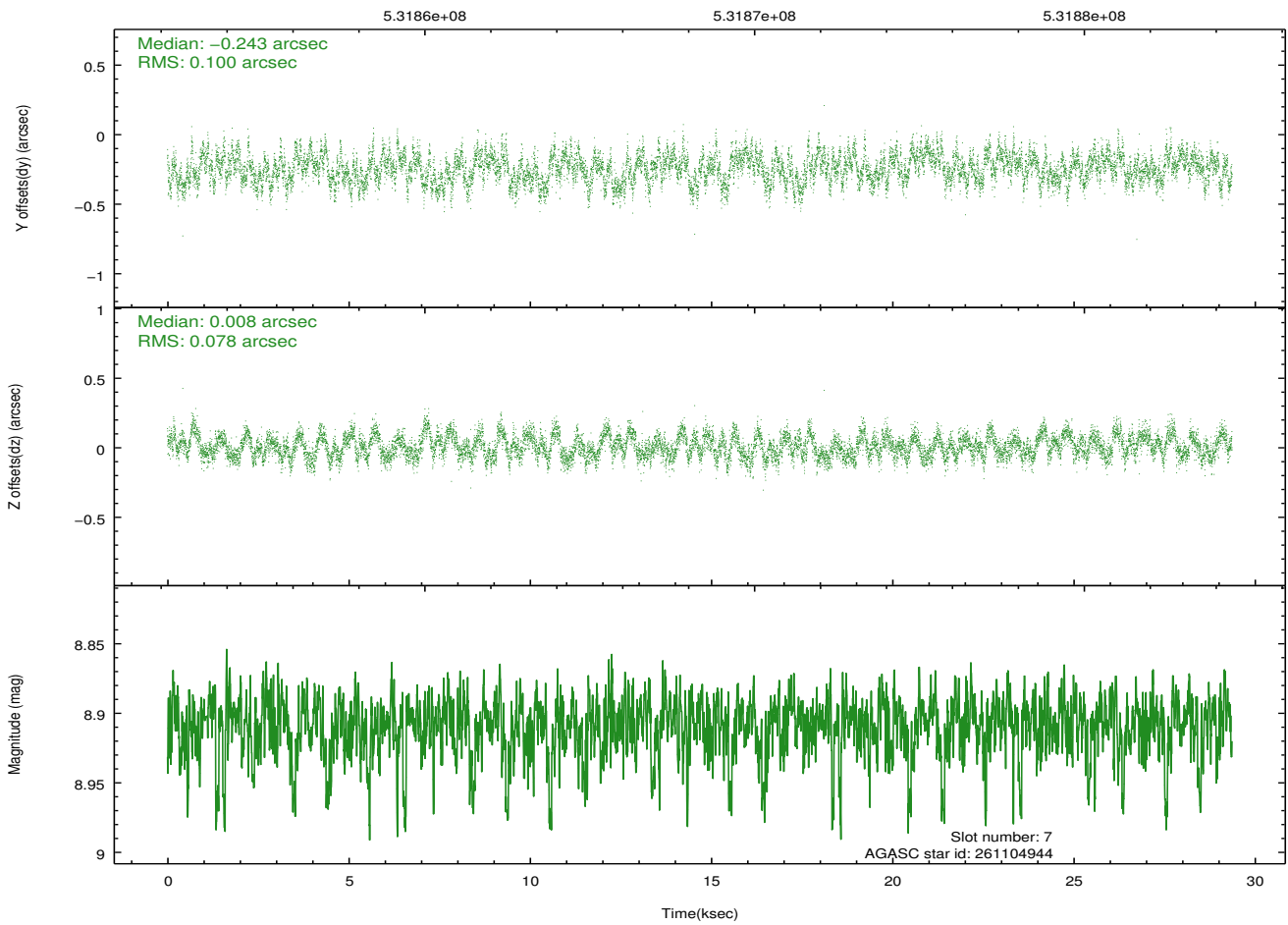
2.4.4 Slot 6



2.4.5 Slot 7

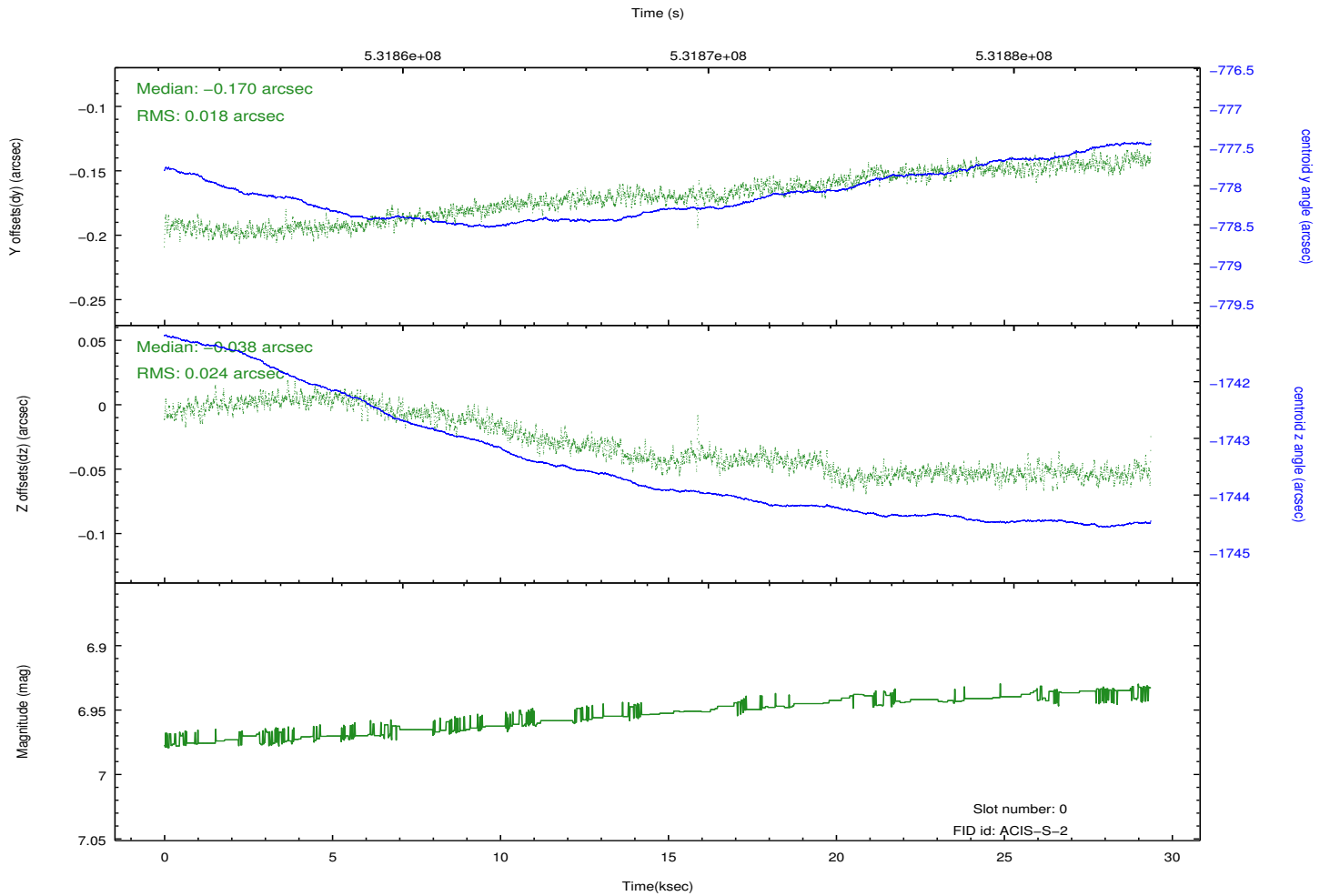
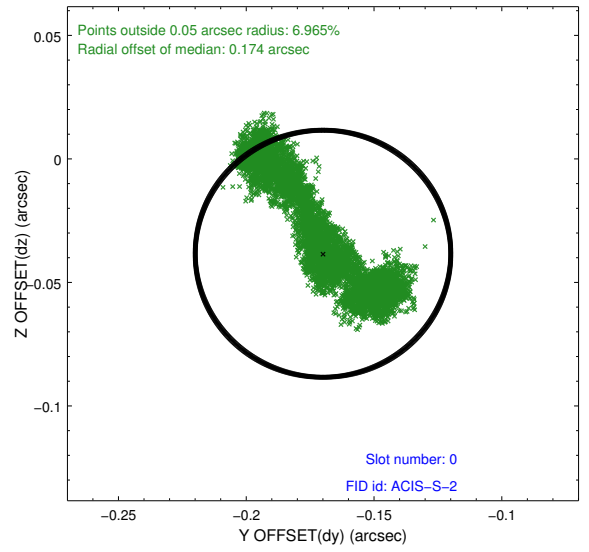
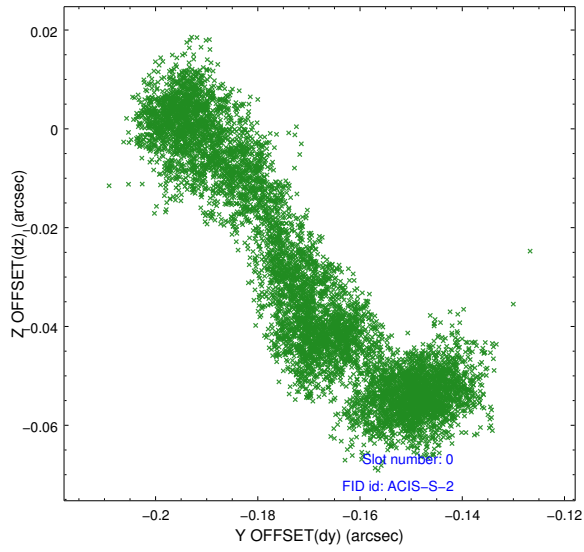


Time (s)

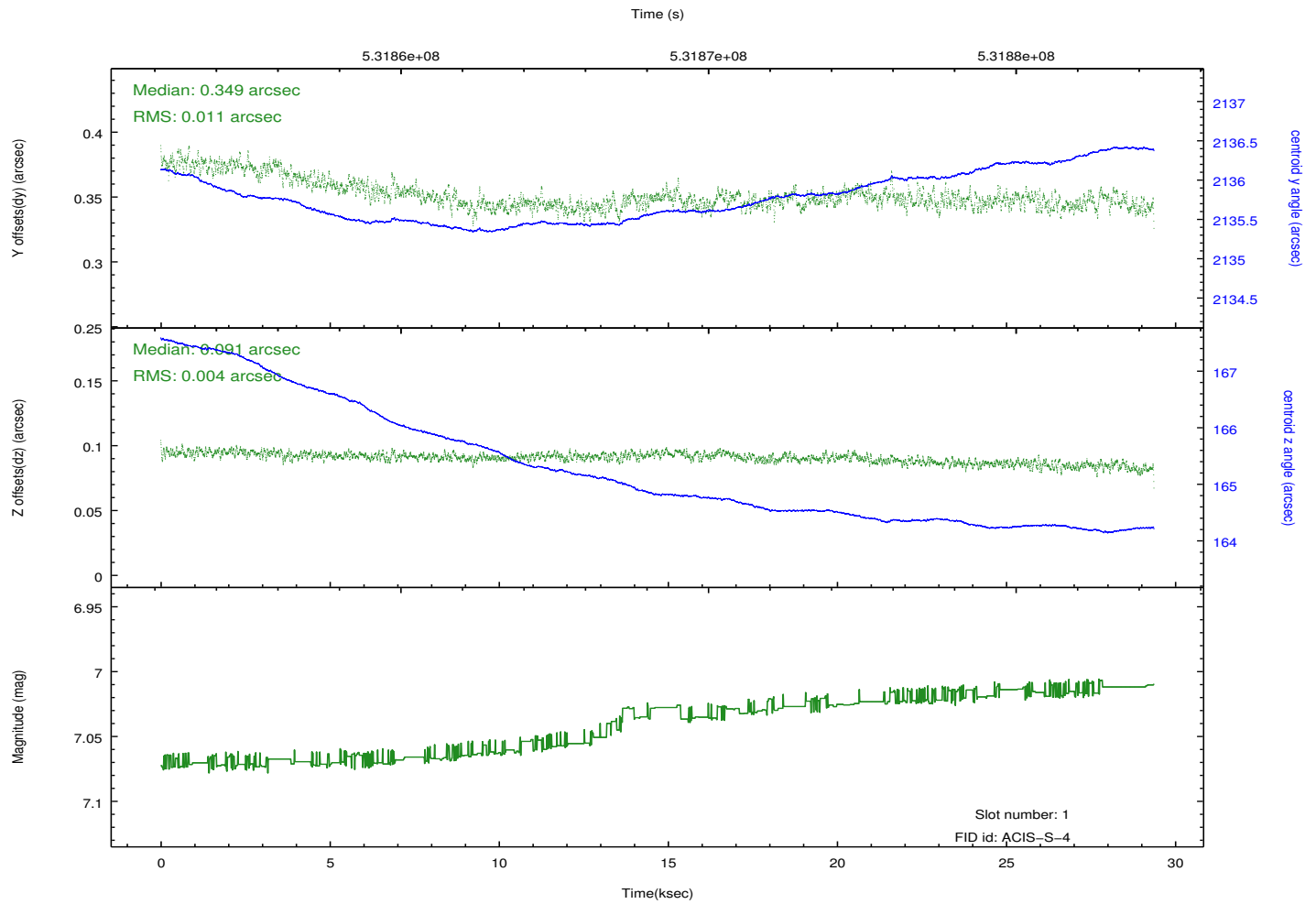
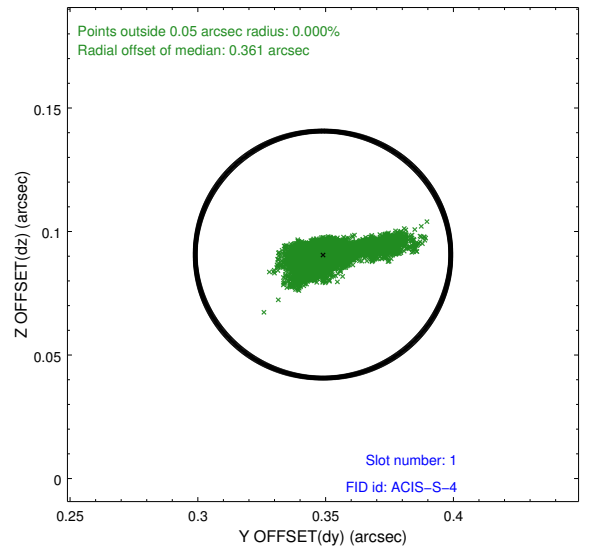
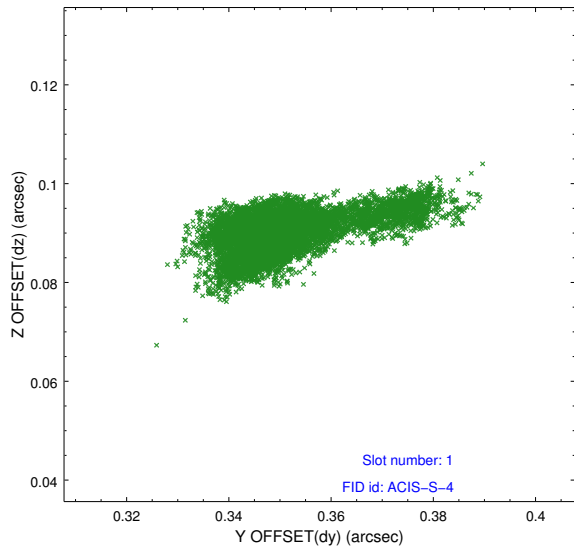


2.5 FID Slots

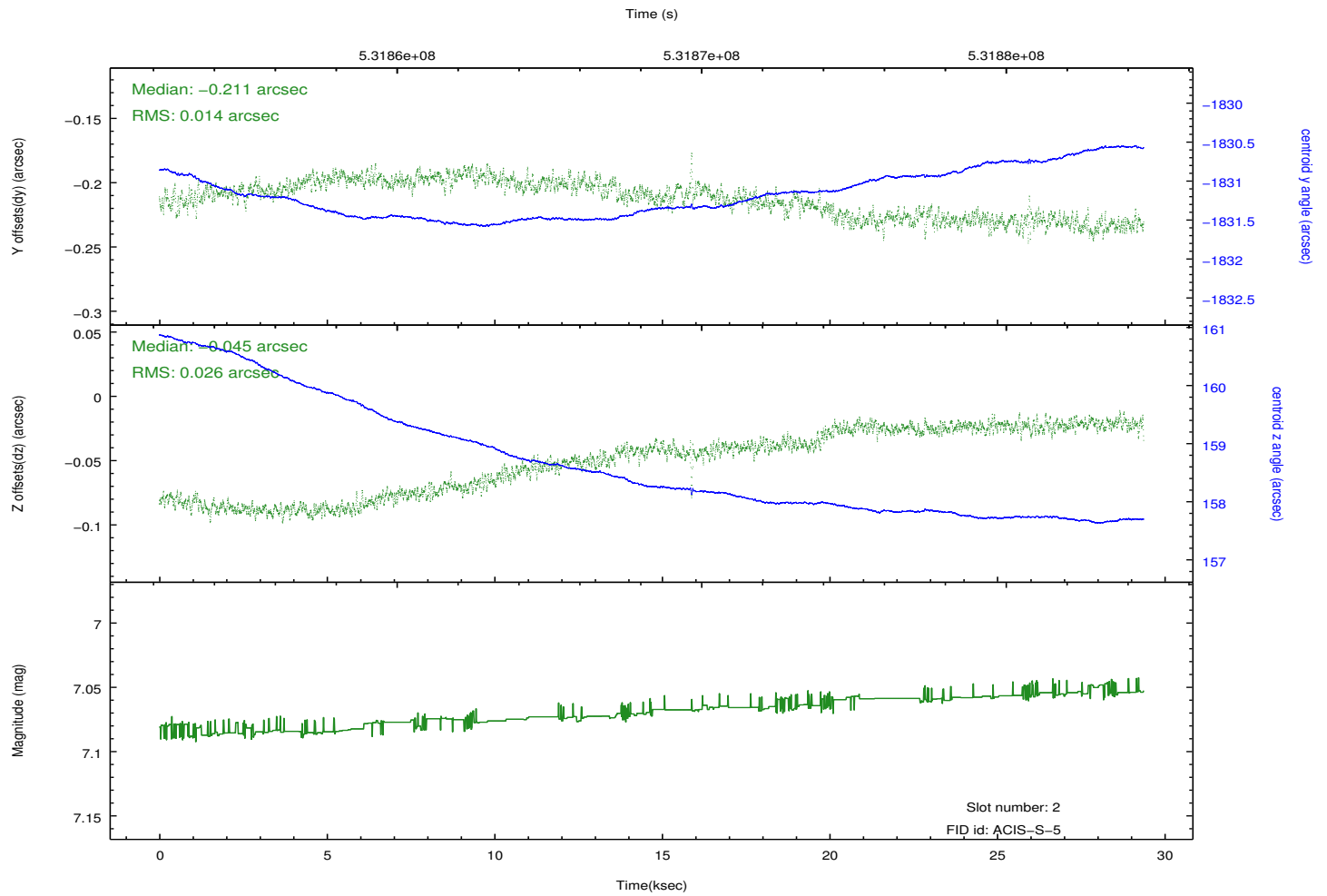
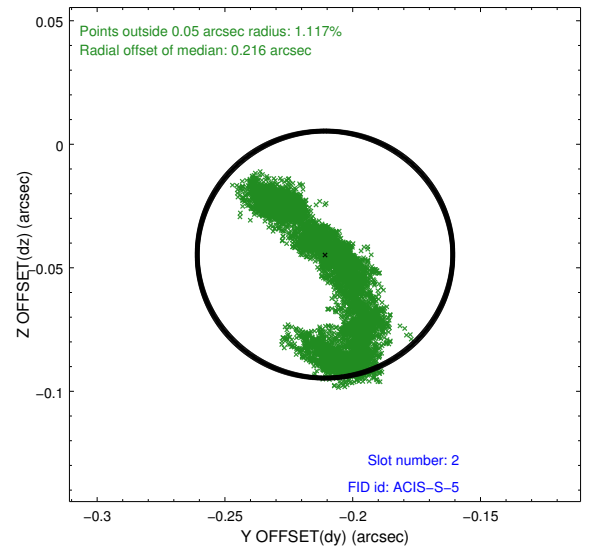
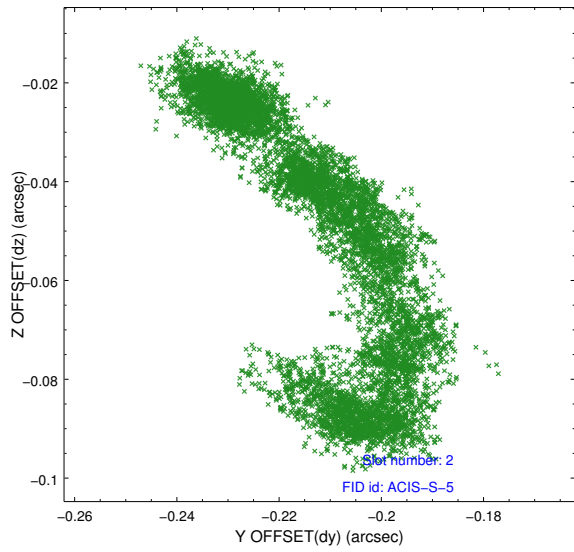
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2014.11.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	29.273300225139

A.2 Comments