

V&V Reference Report

L2 ASCDS Version : 10.2.1

Observation 16157 - L2 Version 2
Chandra X-Ray Center

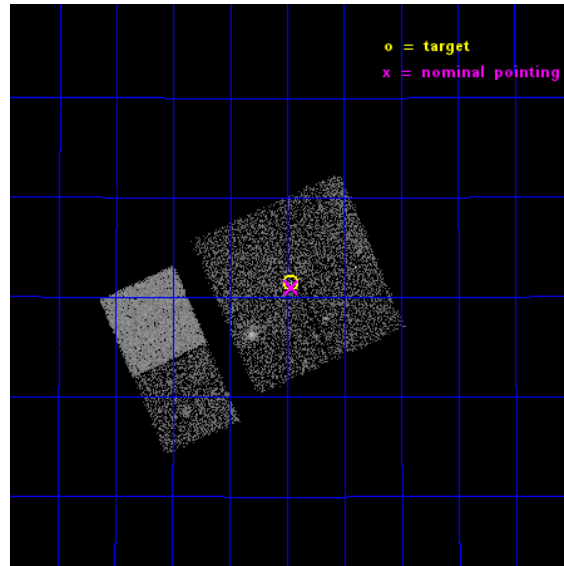
L2 Processing Date : Dec 10 2014

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1 Front

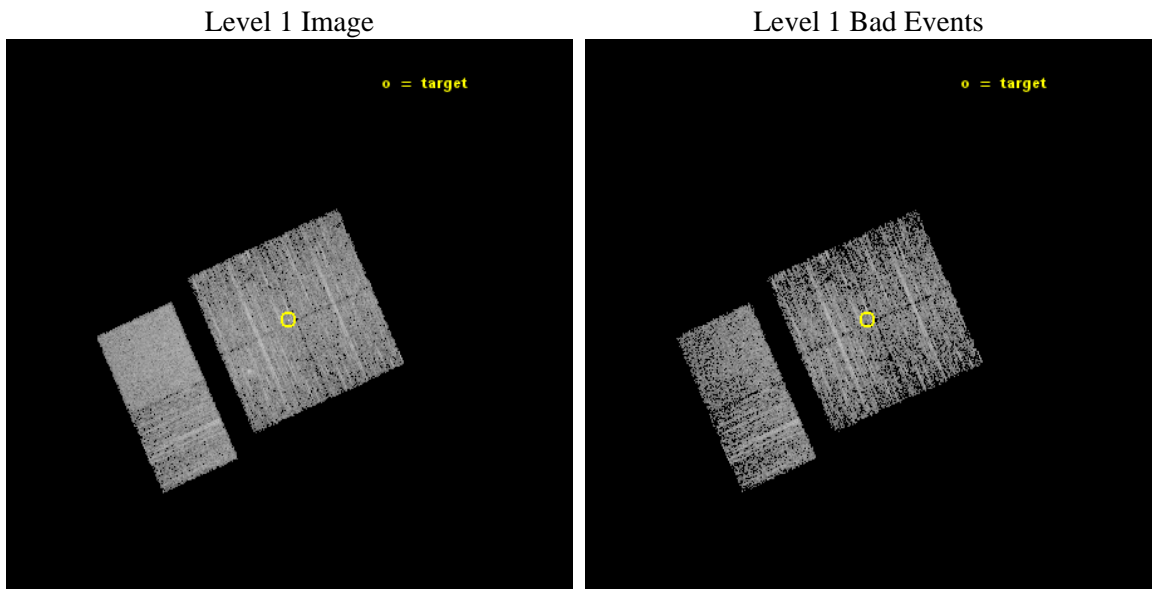
seq_num	901097	Sequence number
obs_id	16157	Observation id
title	The largest complete sample of Local AGN	Proposal title
observer	Prof. Marco Ajello	Principal investigator
object	SWIFT J0920.0+3711	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	139.991667	Observer's specified target RA [deg]
dec_targ	37.191389	Observer's specified target Dec [deg]
ra_nom	139.99046940487	Nominal RA [deg]
dec_nom	37.183256717299	Nominal Dec [deg]
roll_nom	246.0116131876	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5173.5569896102	Sum of GTIs [s]
livetime	5108.0462958657	Livetime [s]
ontime0	5173.4338696003	Sum of GTIs [s]
ontime1	5173.4749096036	Sum of GTIs [s]
ontime2	5173.5159496069	Sum of GTIs [s]
ontime3	5173.5569896102	Sum of GTIs [s]
ontime6	5173.6390696168	Sum of GTIs [s]
ontime7	5173.5980296135	Sum of GTIs [s]
l2events	27826	Number of level 2 events



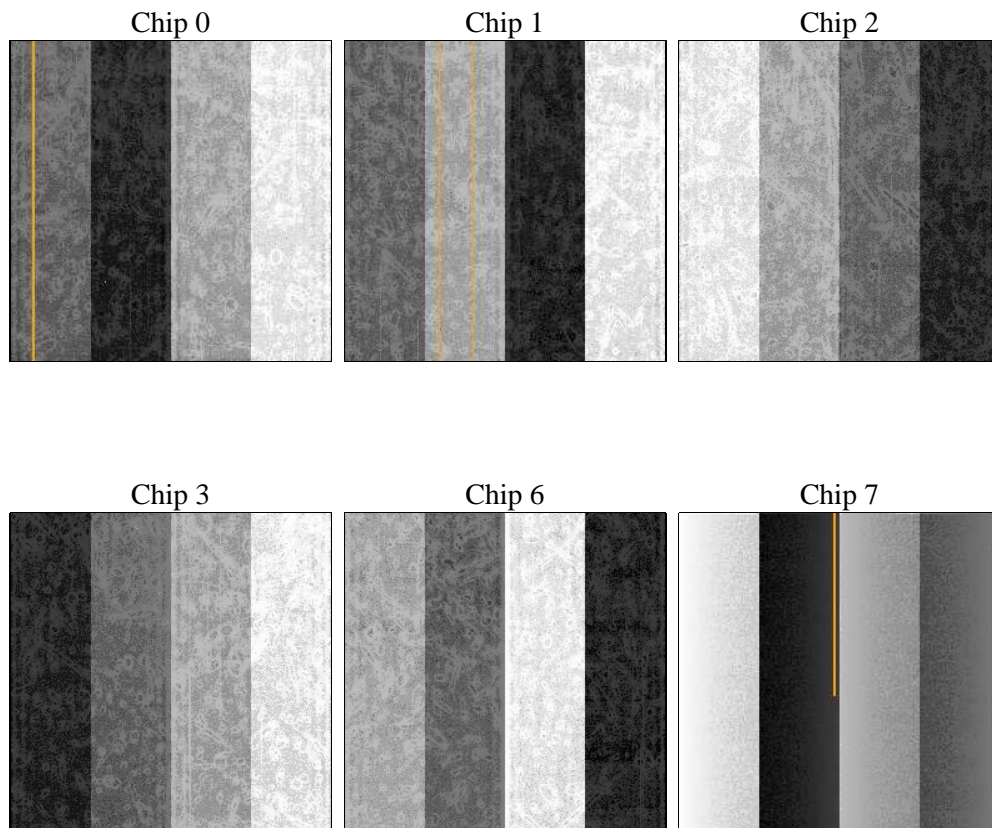
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5200.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	5173.5569896102	Sum of GTIs [s]
caldsver	4.6.4	 	ontime0	5173.4338696003	Sum of GTIs [s]
date	2014-12-11T03:08:16	Date and time of file creation	ontime1	5173.4749096036	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	5173.5159496069	Sum of GTIs [s]
			ontime3	5173.5569896102	Sum of GTIs [s]
			ontime6	5173.6390696168	Sum of GTIs [s]
			ontime7	5173.5980296135	Sum of GTIs [s]
			l1events	151654	Number of level 1 events

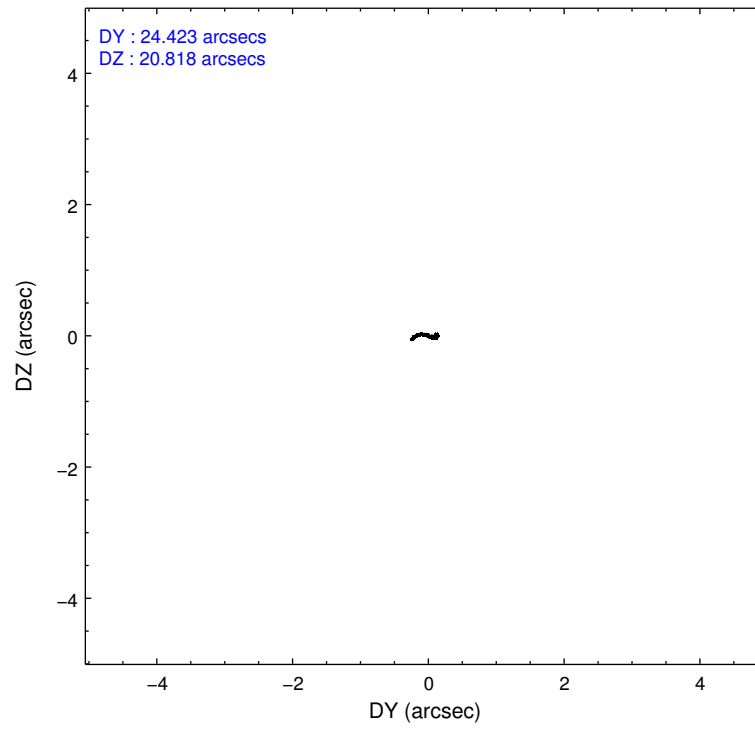
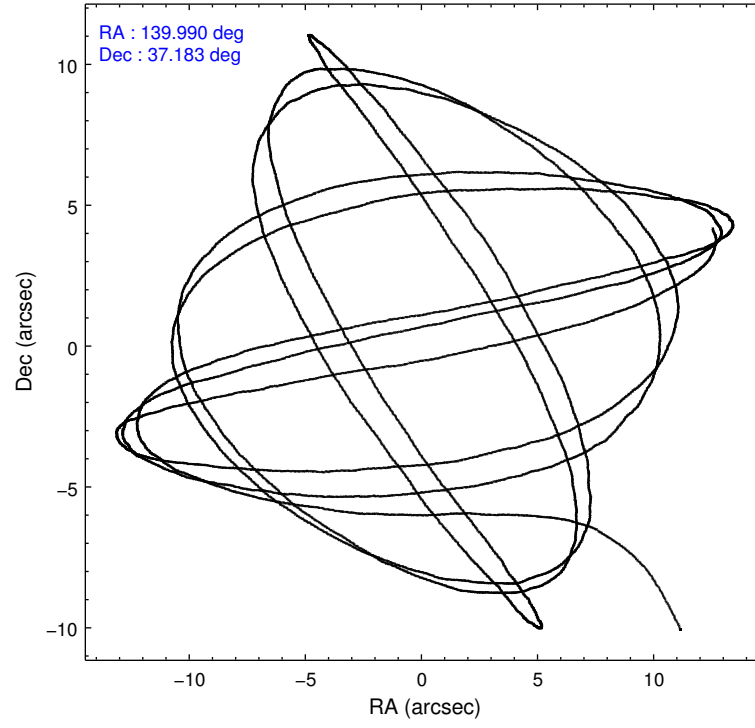
2.1.4 Events

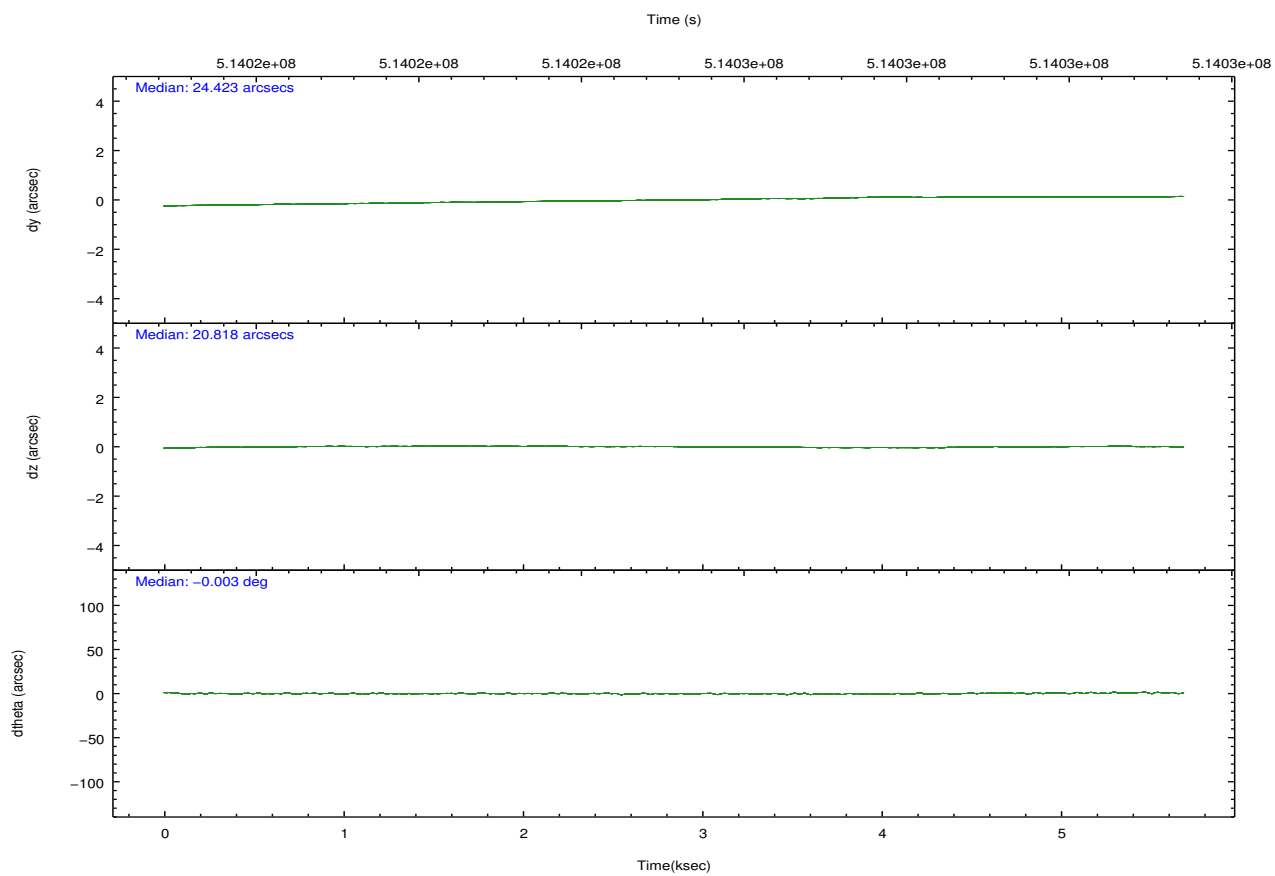
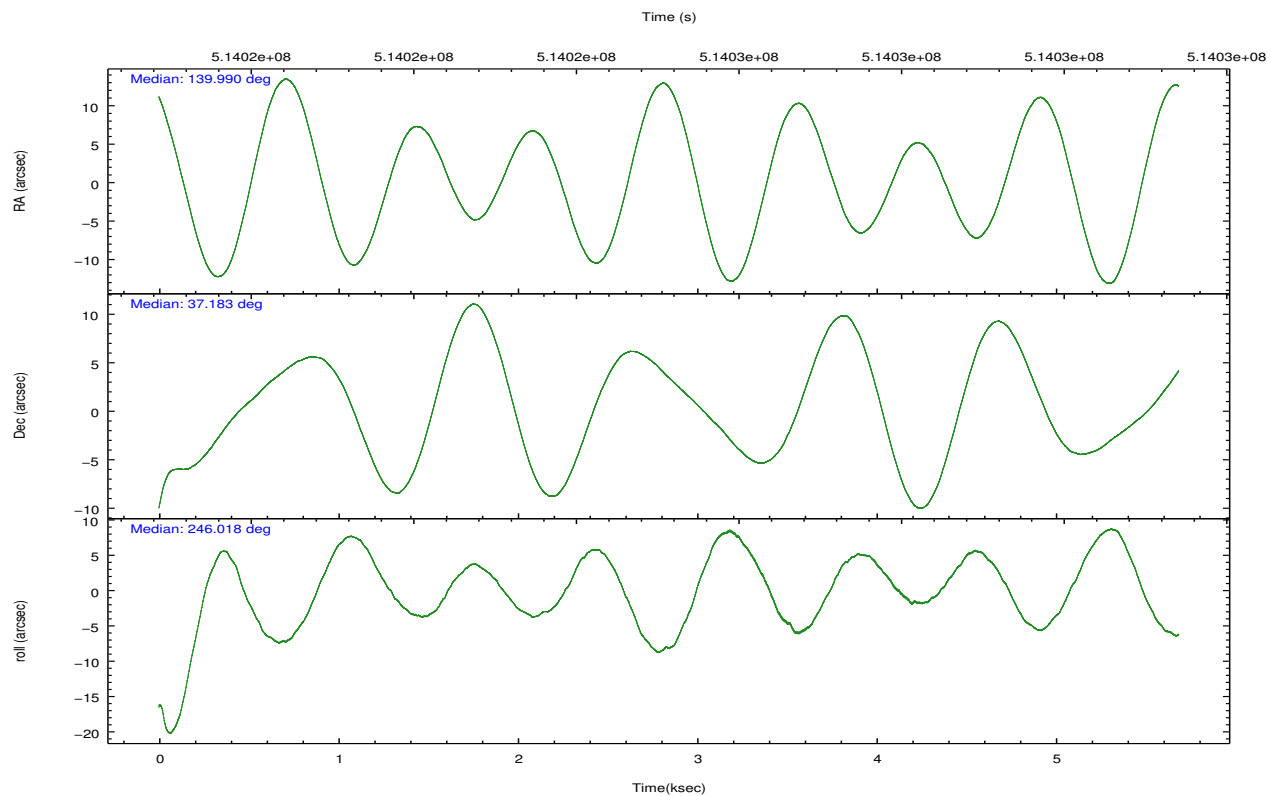
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	21633	21697	25276	24422	24789	33837	grade 0 events	1054	1109	1531	1192	1014	1270
rejected events	18666	18487	21880	21313	21772	19155		4%	5%	6%	4%	4%	3%
rejected %	86%	85%	86%	87%	87%	56%	grade 1 events	9	7	14	18	18	45
								0%	0%	0%	0%	0%	0%
							grade 2 events	676	741	773	699	684	3052
								3%	3%	3%	2%	2%	9%
							grade 3 events	317	322	287	296	318	1303
								1%	1%	1%	1%	1%	3%
							grade 4 events	295	314	273	297	307	1220
								1%	1%	1%	1%	1%	3%
							grade 5 events	1128	1264	1152	1365	1292	3624
								5%	5%	4%	5%	5%	10%
							grade 6 events	627	731	535	626	700	7852
								2%	3%	2%	2%	2%	23%
							grade 7 events	17527	17209	20711	19929	20456	15471
								81%	79%	81%	81%	82%	45%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	139.986728	139.9904694048722	CCD I2 on	Y	Y
[deg] Pointing Dec	37.210697	37.18325671729872	CCD I3 on	Y	Y
[deg] Pointing Roll	245.805170	246.0116131875964	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O2	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	514023202.184000	514022088.50752	CCD S5 on	N	N
Observation start date	2014-04-16T08:12:15	2014-04-16T07:54:48	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	514028402.184000	514029095.40791	On-chip summing requested	N	N
Observation end date	2014-04-16T09:38:55	2014-04-16T09:51:35	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



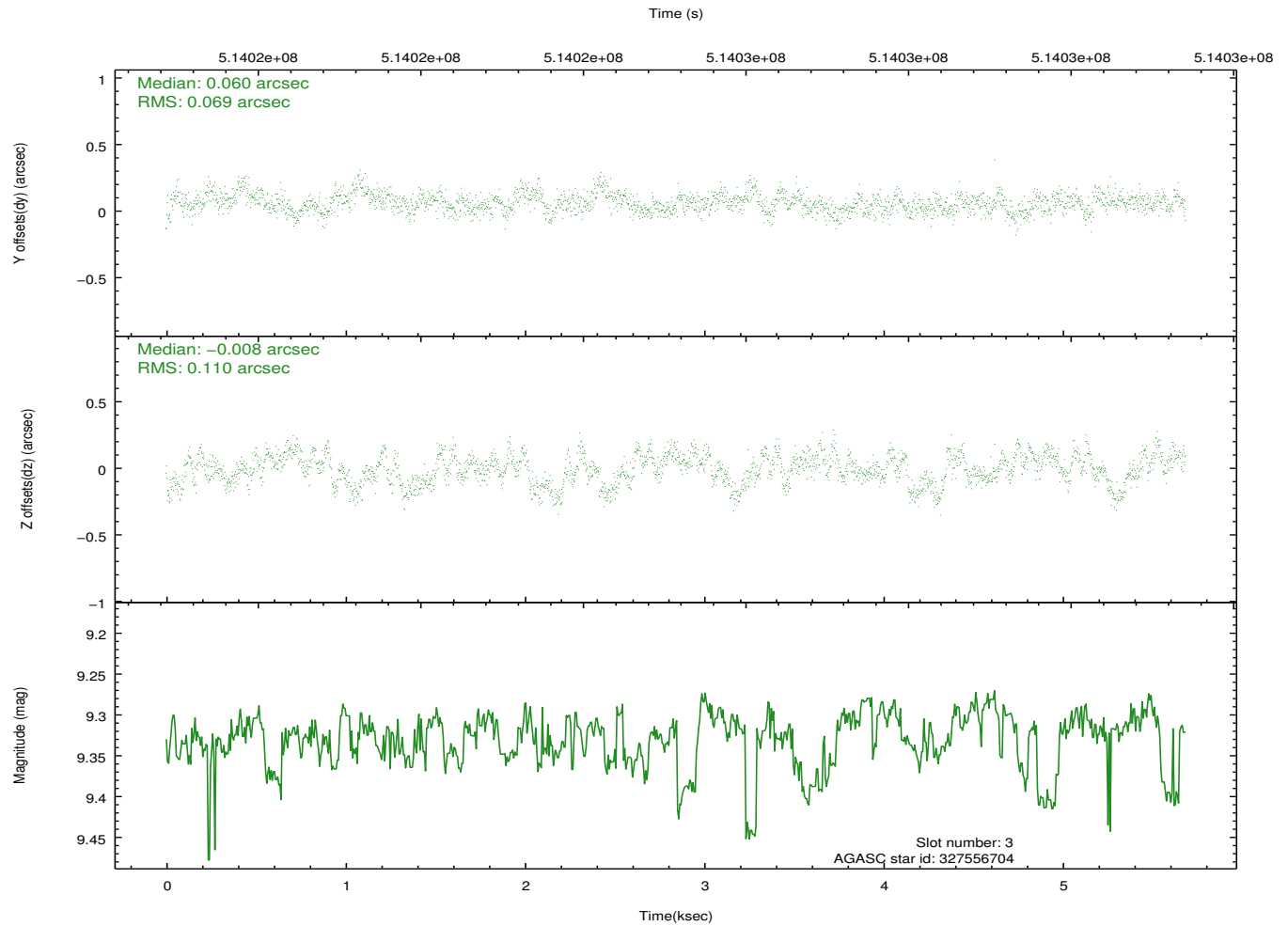
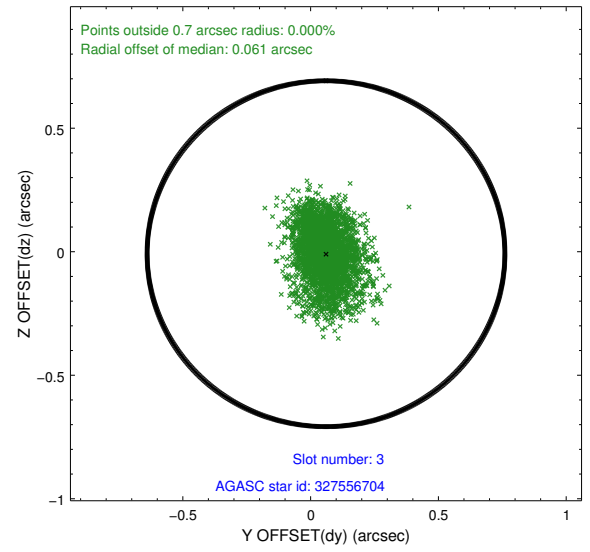
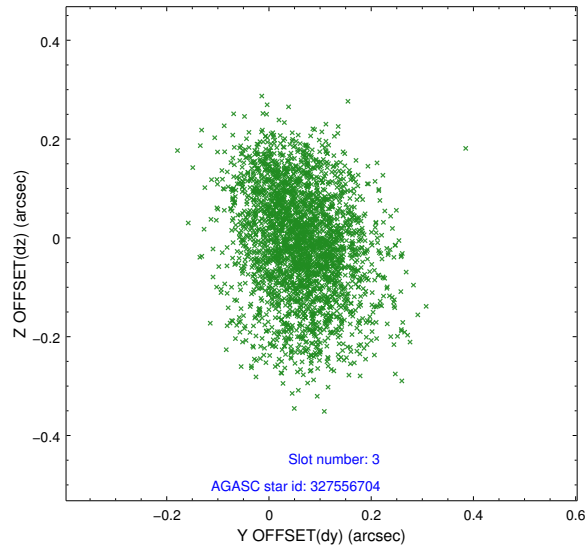


Slot Statistics

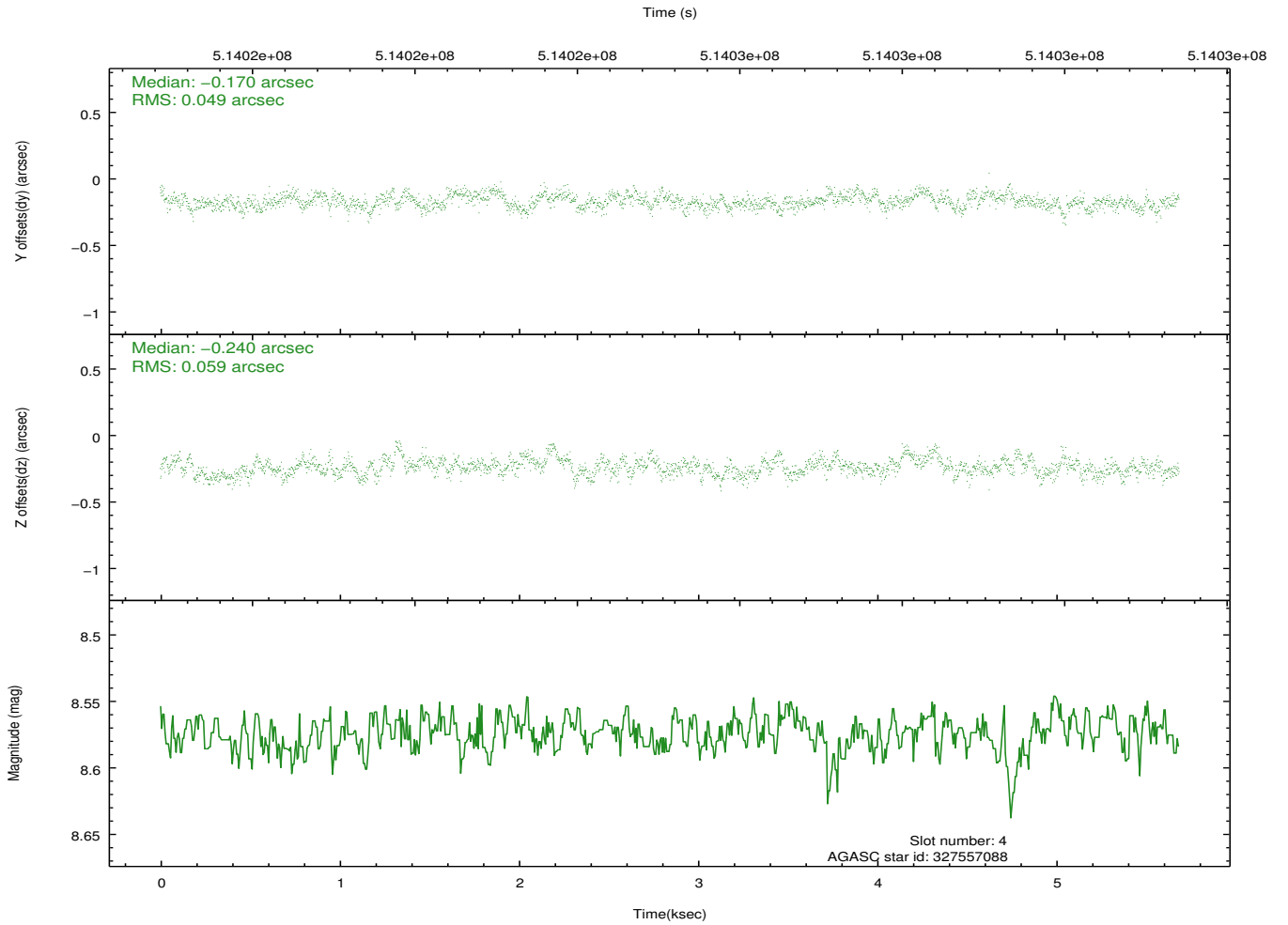
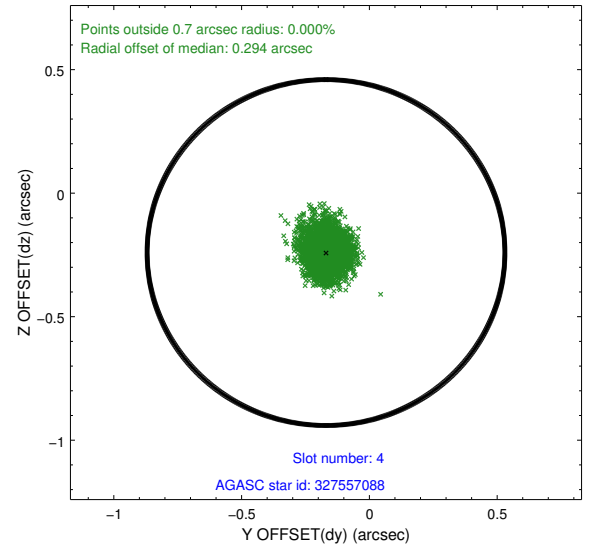
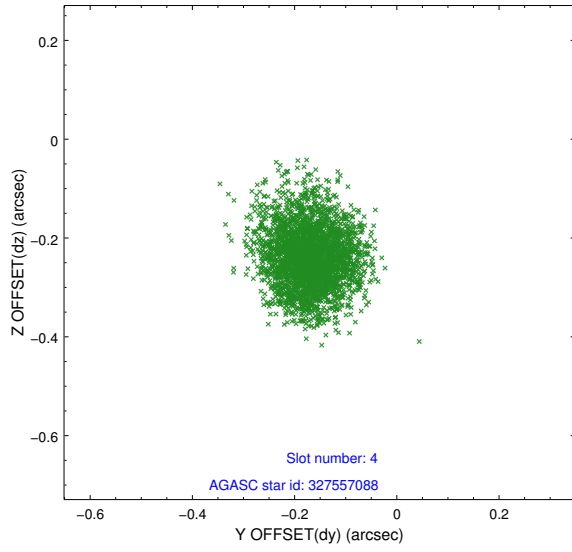
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.02	1387	0.057	-0.021	0.006	0.011	0.000000	0.000000	914.87	-844.56
1	FID		ACIS-I-5	7.01	1387	-0.285	0.041	0.006	0.010	0.000000	0.000000	-1833.06	1052.39
2	FID		ACIS-I-6	7.02	1387	0.137	0.052	0.006	0.010	0.000000	0.000000	379.27	1698.15
3	GUIDE	used	327556704	9.33	2771	0.060	-0.008	0.139	0.226	140.348353	37.238132	-516.13	903.87
4	GUIDE	used	327557088	8.57	2773	-0.170	-0.240	0.082	0.132	140.796557	37.388041	-1541.19	1847.62
5	GUIDE	used	327557504	8.31	2774	0.226	-0.164	0.082	0.125	139.900964	36.972079	883.98	127.56
6	GUIDE	used	327558320	8.98	2774	-0.175	0.033	0.115	0.179	140.211145	36.958386	563.25	960.98
7	GUIDE	used	392041360	7.41	2774	0.057	0.376	0.073	0.121	140.030267	37.755648	-1840.40	-689.94

2.4 Star Slots

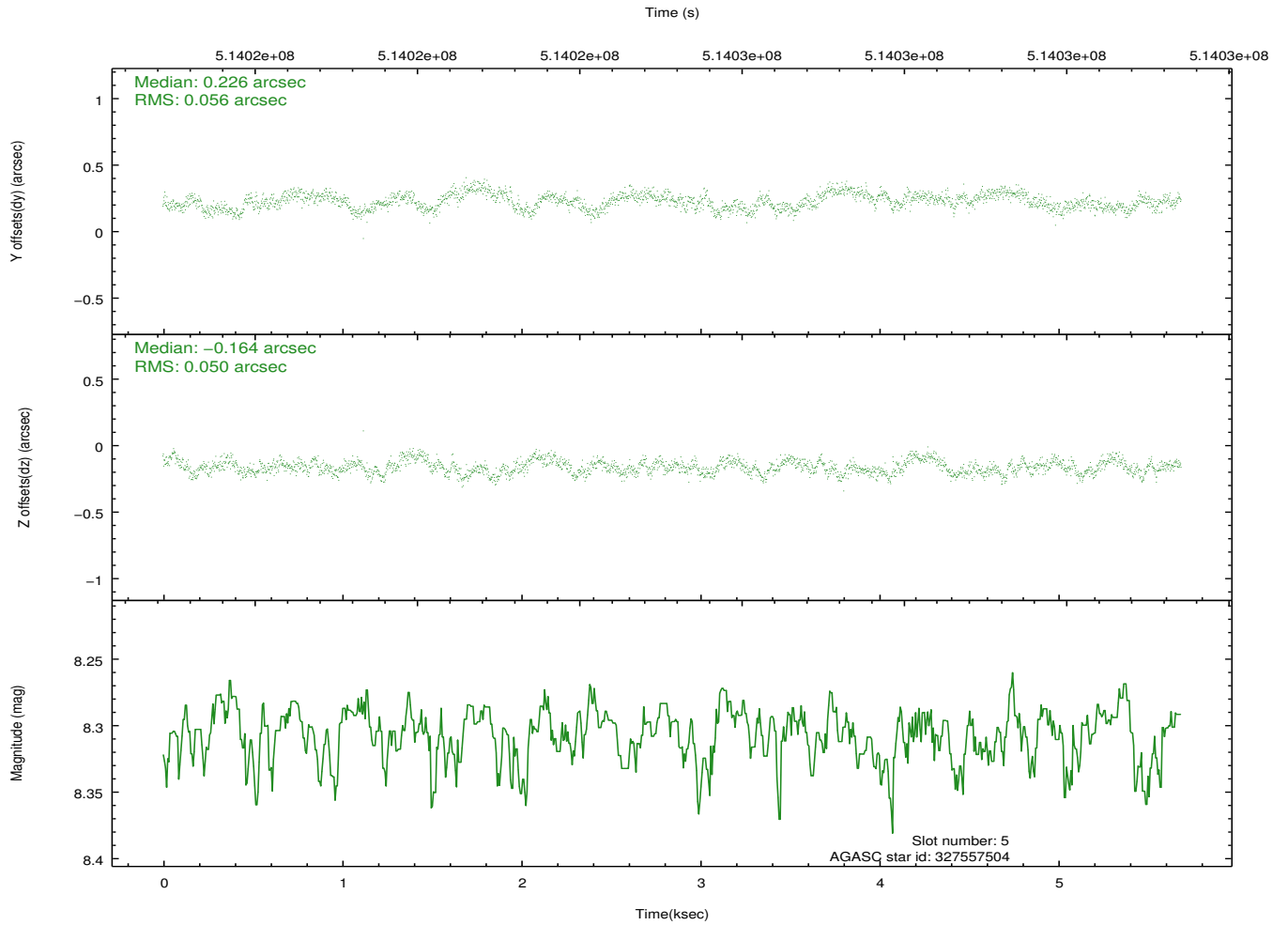
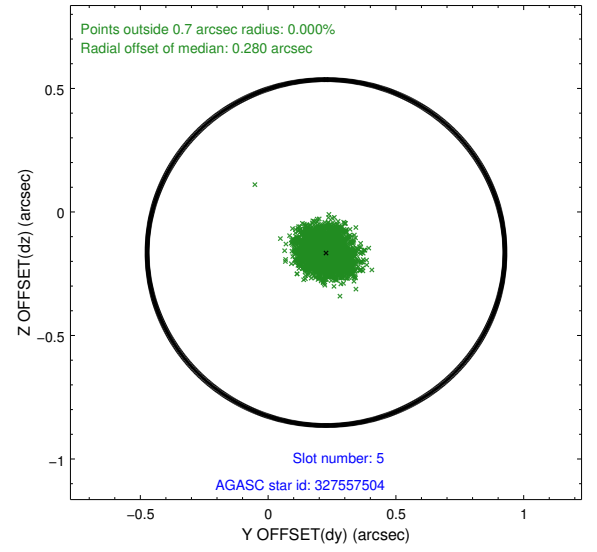
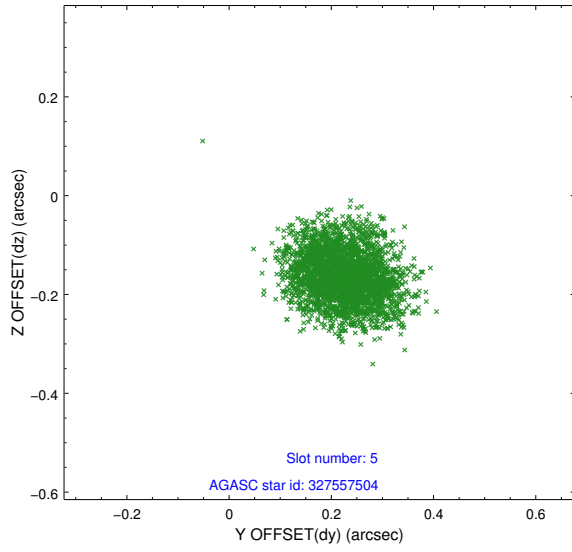
2.4.1 Slot 3



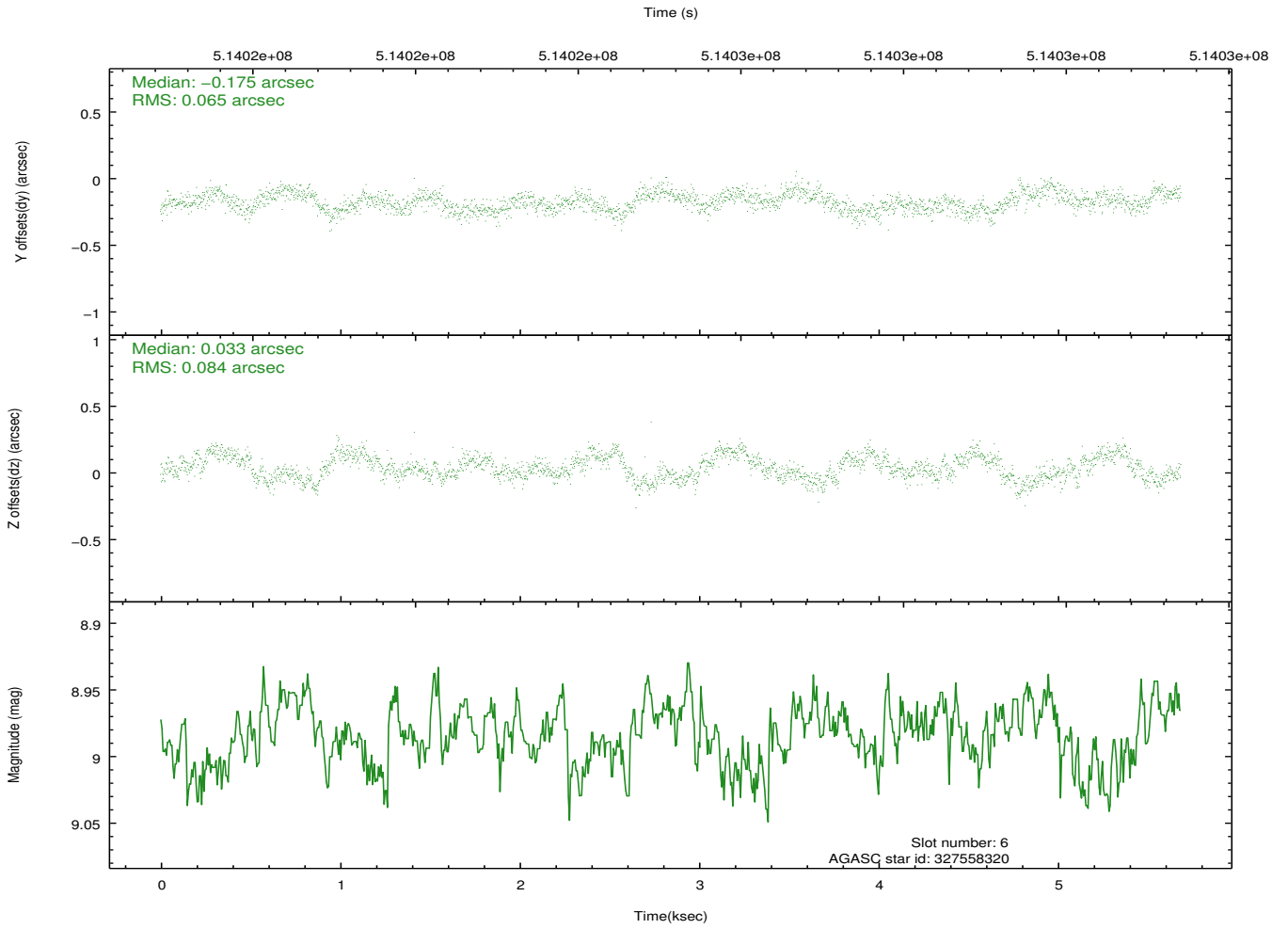
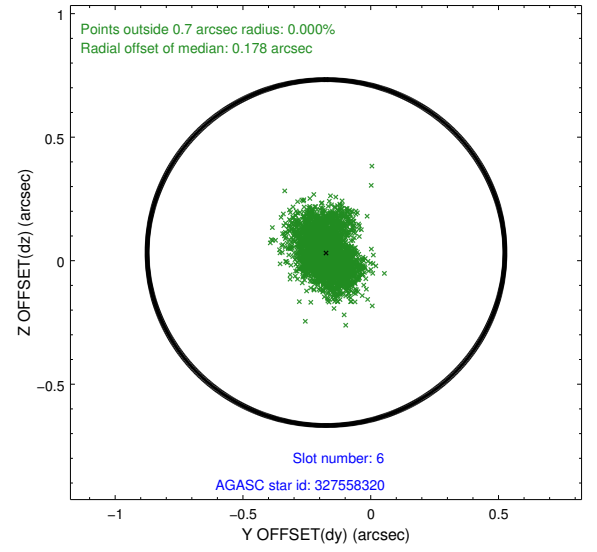
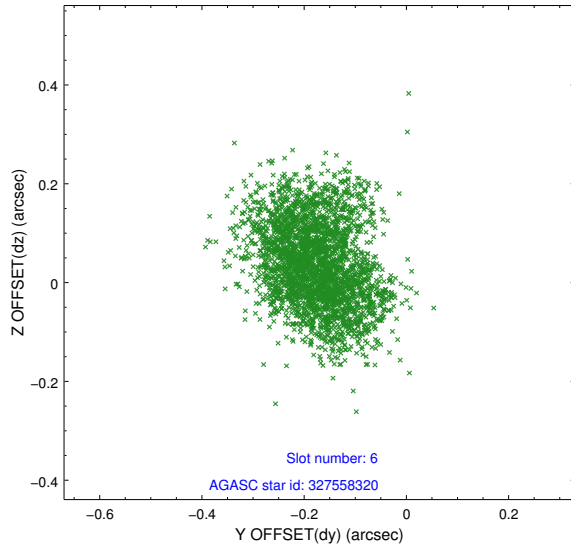
2.4.2 Slot 4



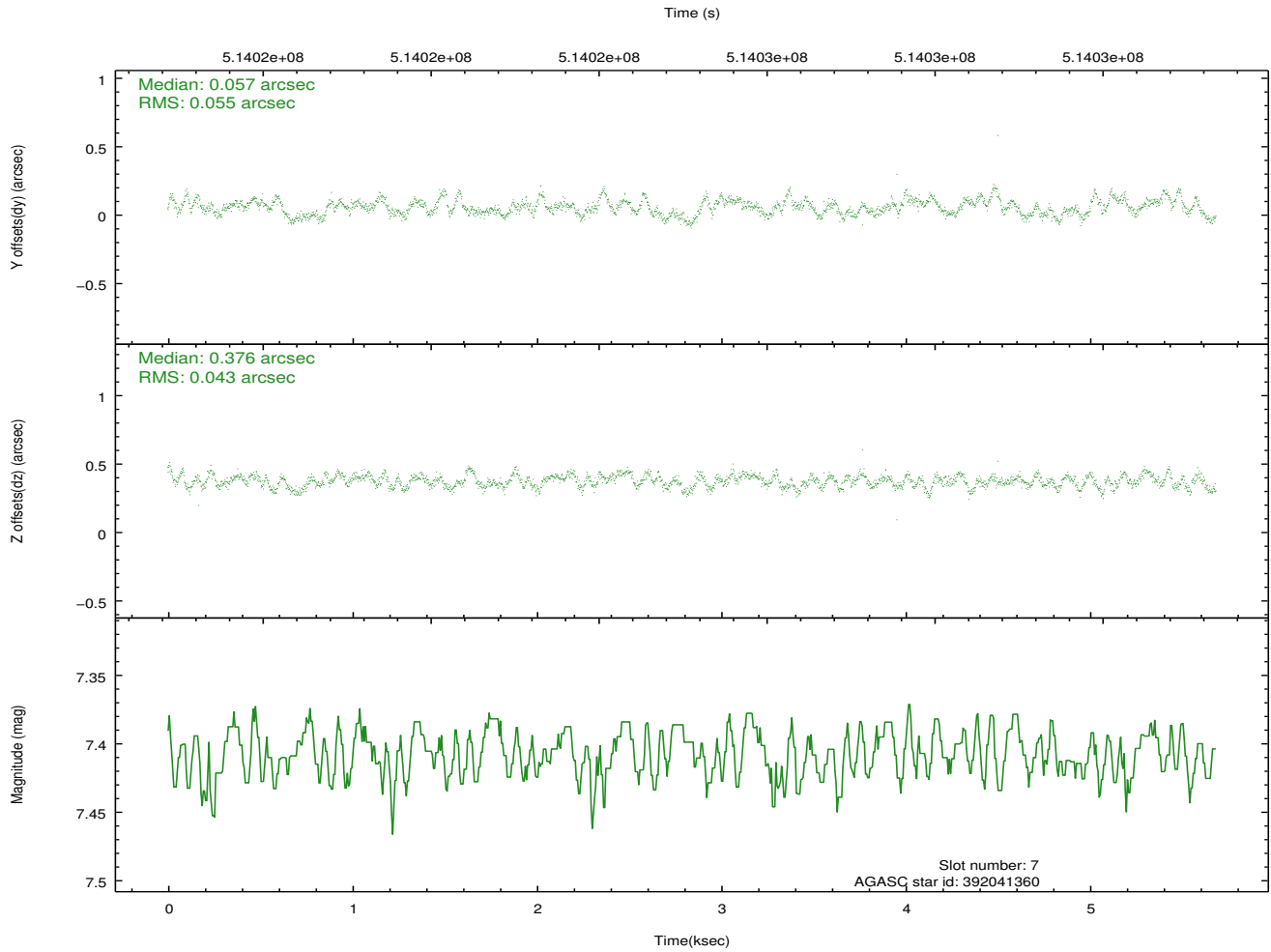
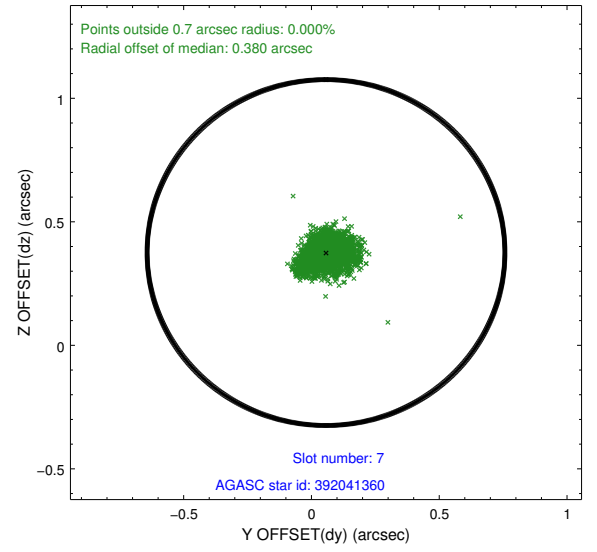
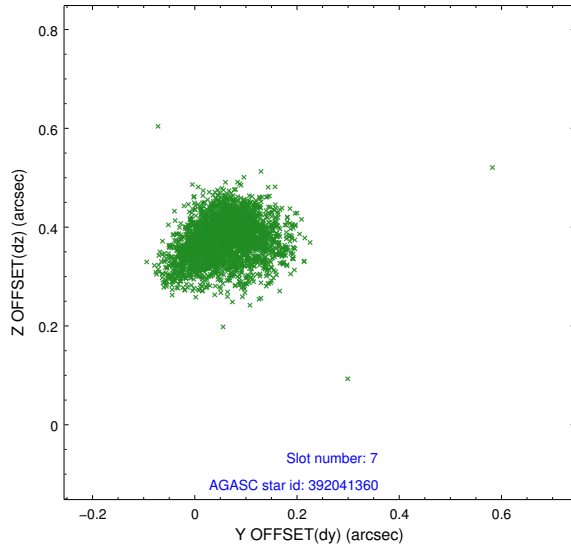
2.4.3 Slot 5



2.4.4 Slot 6

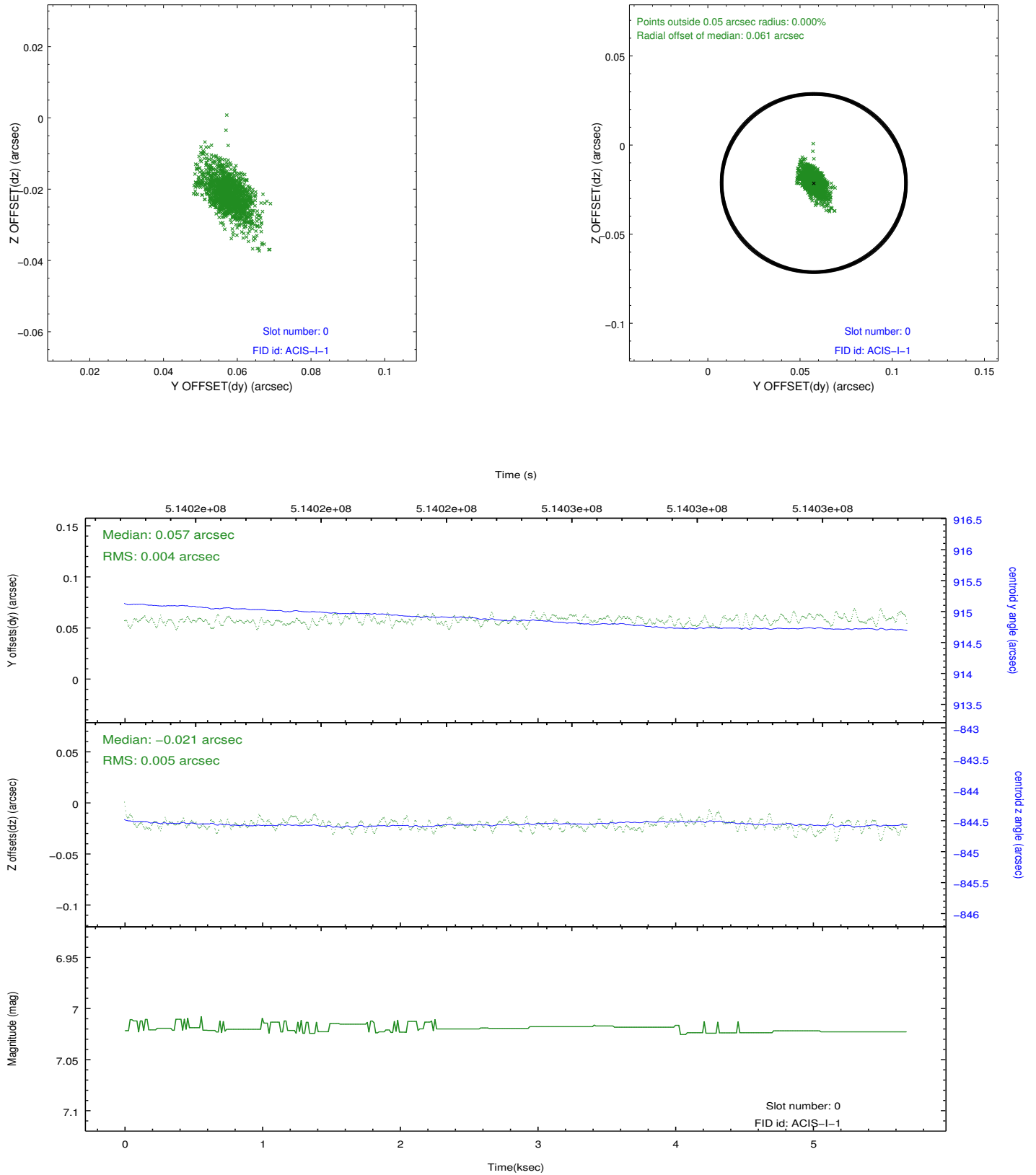


2.4.5 Slot 7

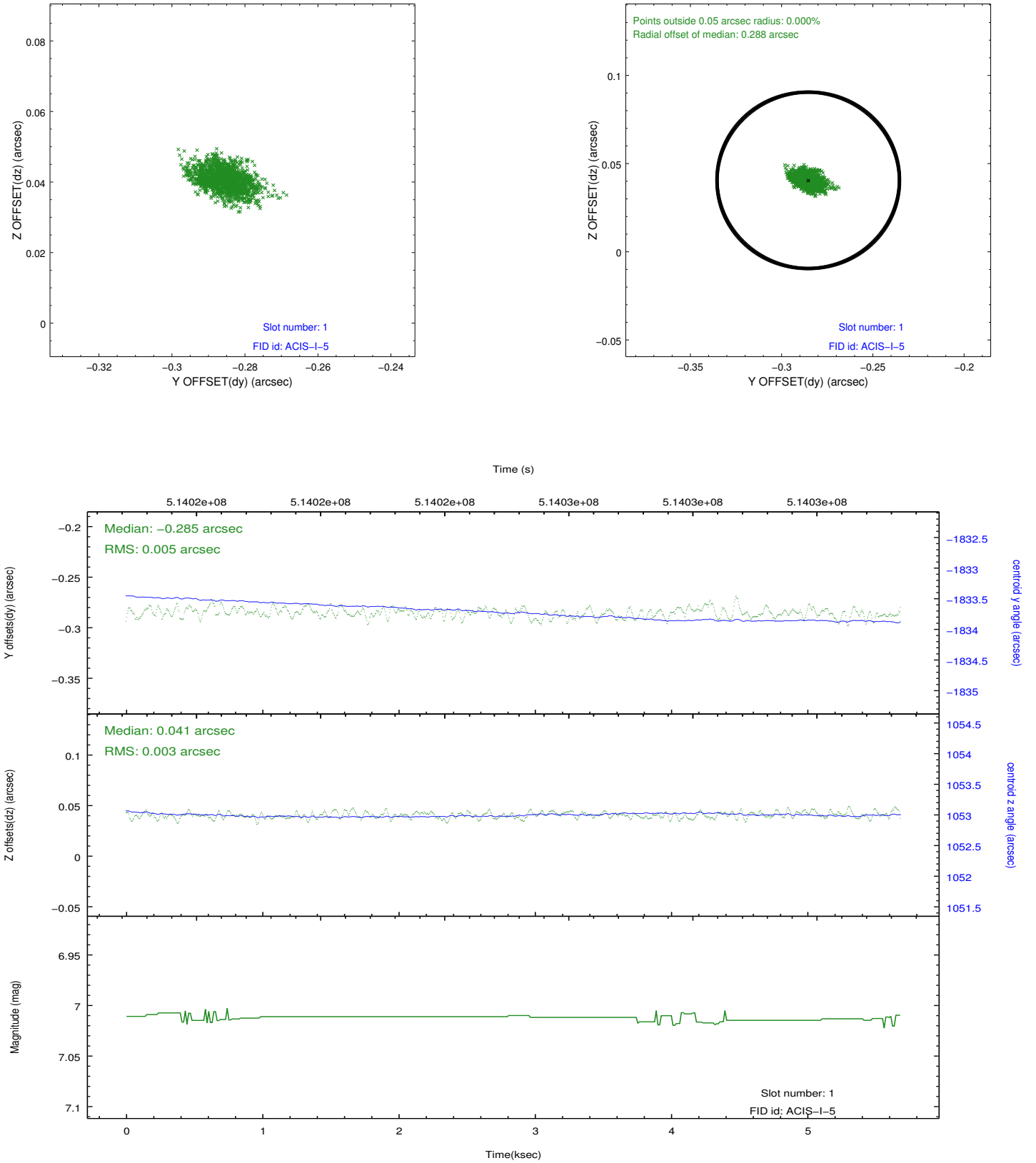


2.5 FID Slots

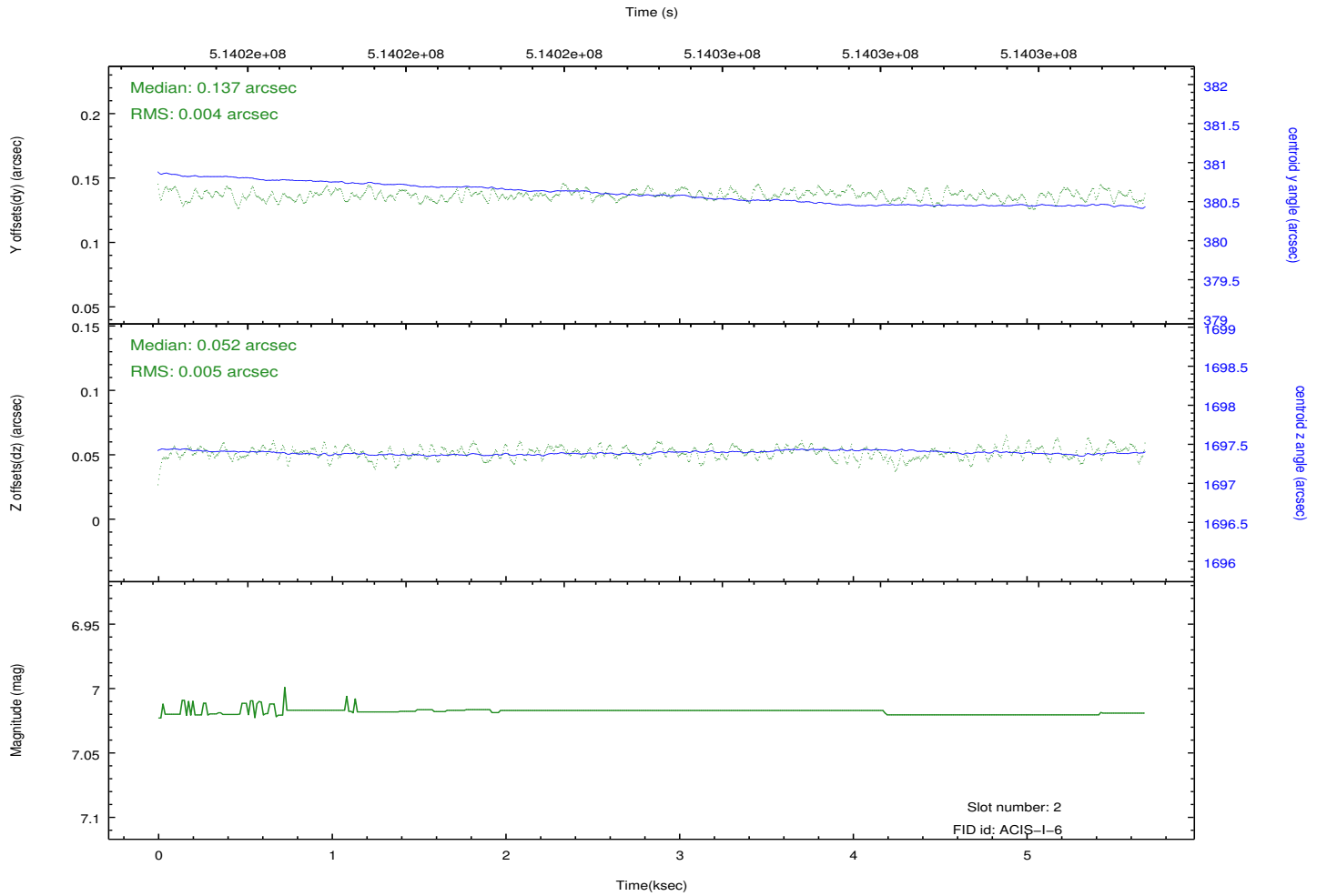
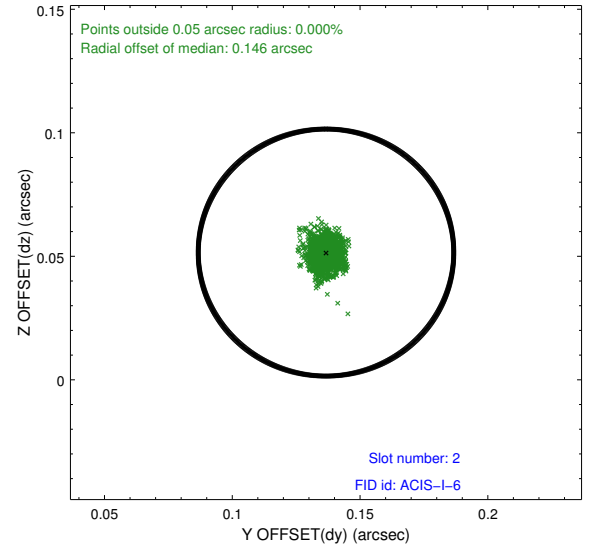
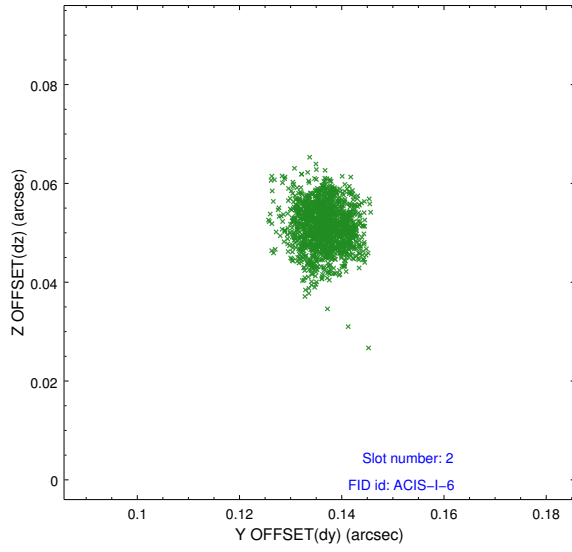
2.5.1 Slot 0



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)	2014.12.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.1735569896102

A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.