

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 3057 - L2 Version 5
Chandra X-Ray Center

L2 Processing Date : Feb 22 2013

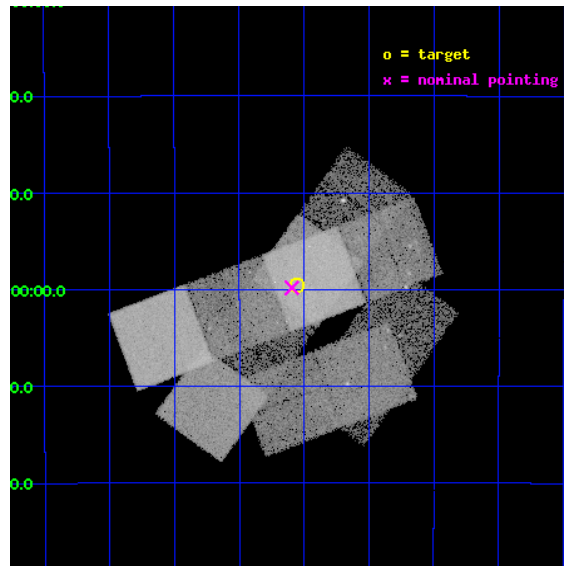
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1 Front

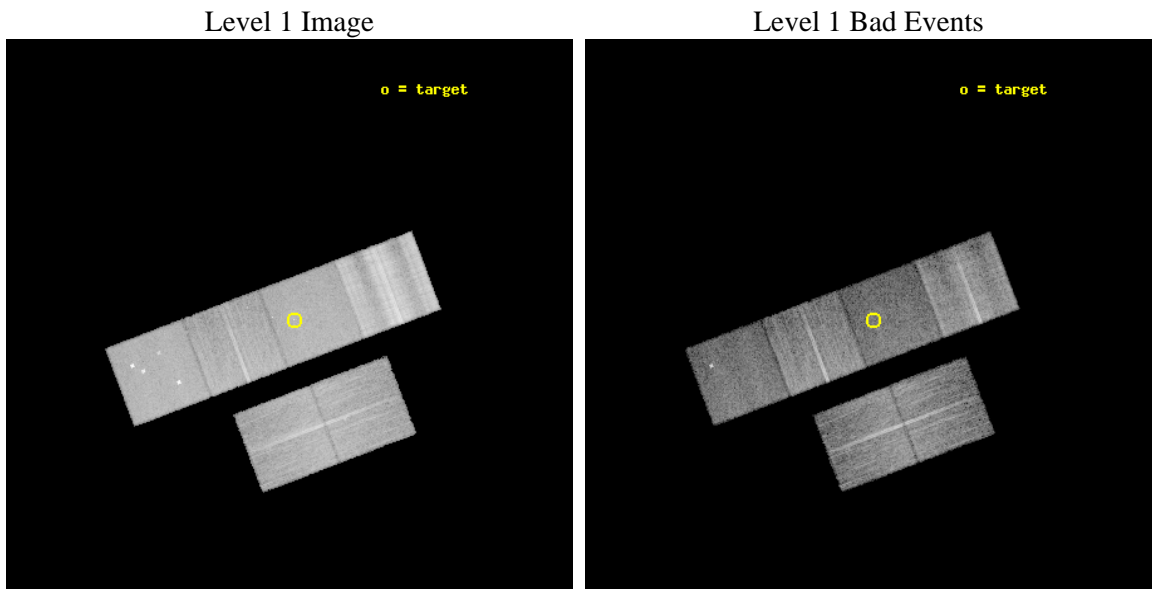
seq_num	700496	Sequence number
obs_id	3057	Observation id
title	X-RAY STUDIES OF HIGH REDSHIFT RADIO GALAXIES	Proposal title
observer	Dr. Chris Carilli	Principal investigator
object	0156-252	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	29.639583	Observer's specified target RA [deg]
dec_targ	-24.992278	Observer's specified target Dec [deg]
ra_nom	29.648705615317	Nominal RA [deg]
dec_nom	-24.997264268949	Nominal Dec [deg]
roll_nom	339.17807497676	Nominal Roll [deg]
revision	5	Processing version of data
ontime	19777.792707294	Sum of GTIs [s]
livetime	19527.354387277	Livetime [s]
ontime2	19777.833747298	Sum of GTIs [s]
ontime3	19774.42861703	Sum of GTIs [s]
ontime5	19777.751667291	Sum of GTIs [s]
ontime6	19777.710627288	Sum of GTIs [s]
ontime7	19777.792707294	Sum of GTIs [s]
ontime8	19777.628547311	Sum of GTIs [s]
l2events	263410	Number of level 2 events



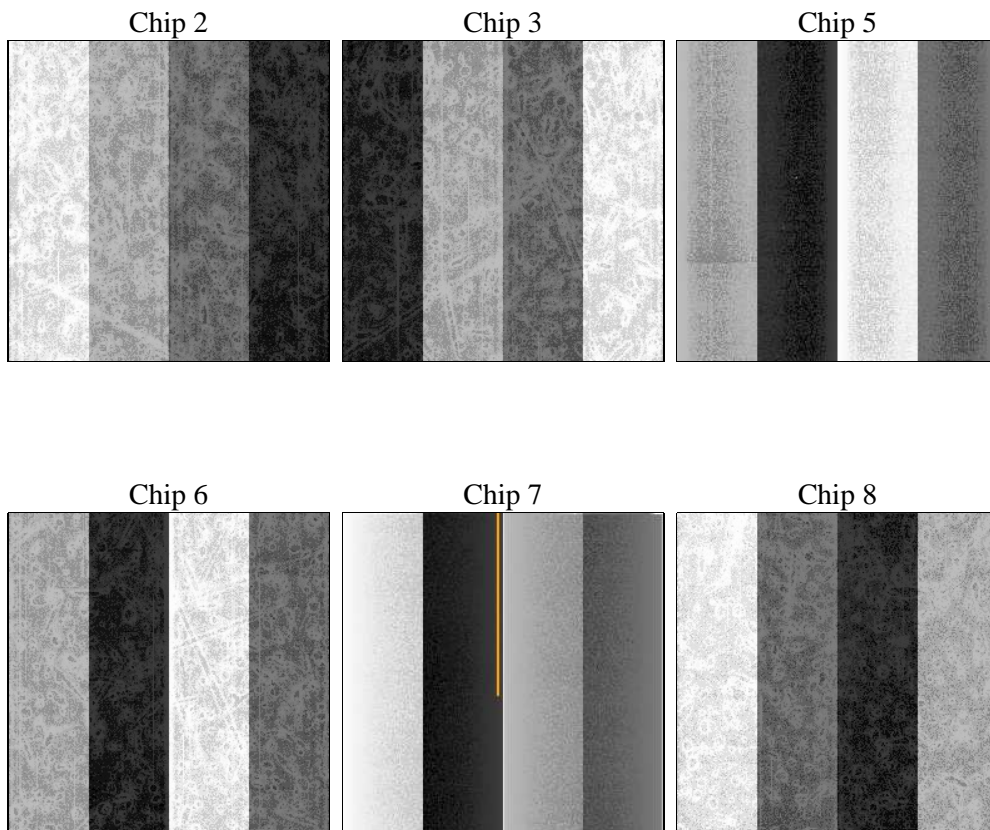
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	19847.872000	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	11385.599957585	Sum of GTIs [s]
caldsver	4.5.5	 	ontime2	11385.599957585	Sum of GTIs [s]
date	2013-02-22T18:27:25	Date and time of file creation	ontime3	11385.599957585	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	11385.599957585	Sum of GTIs [s]
			ontime6	11385.599957585	Sum of GTIs [s]
			ontime7	11385.599957585	Sum of GTIs [s]
			ontime8	11385.599957585	Sum of GTIs [s]
			l1events	823906	Number of level 1 events

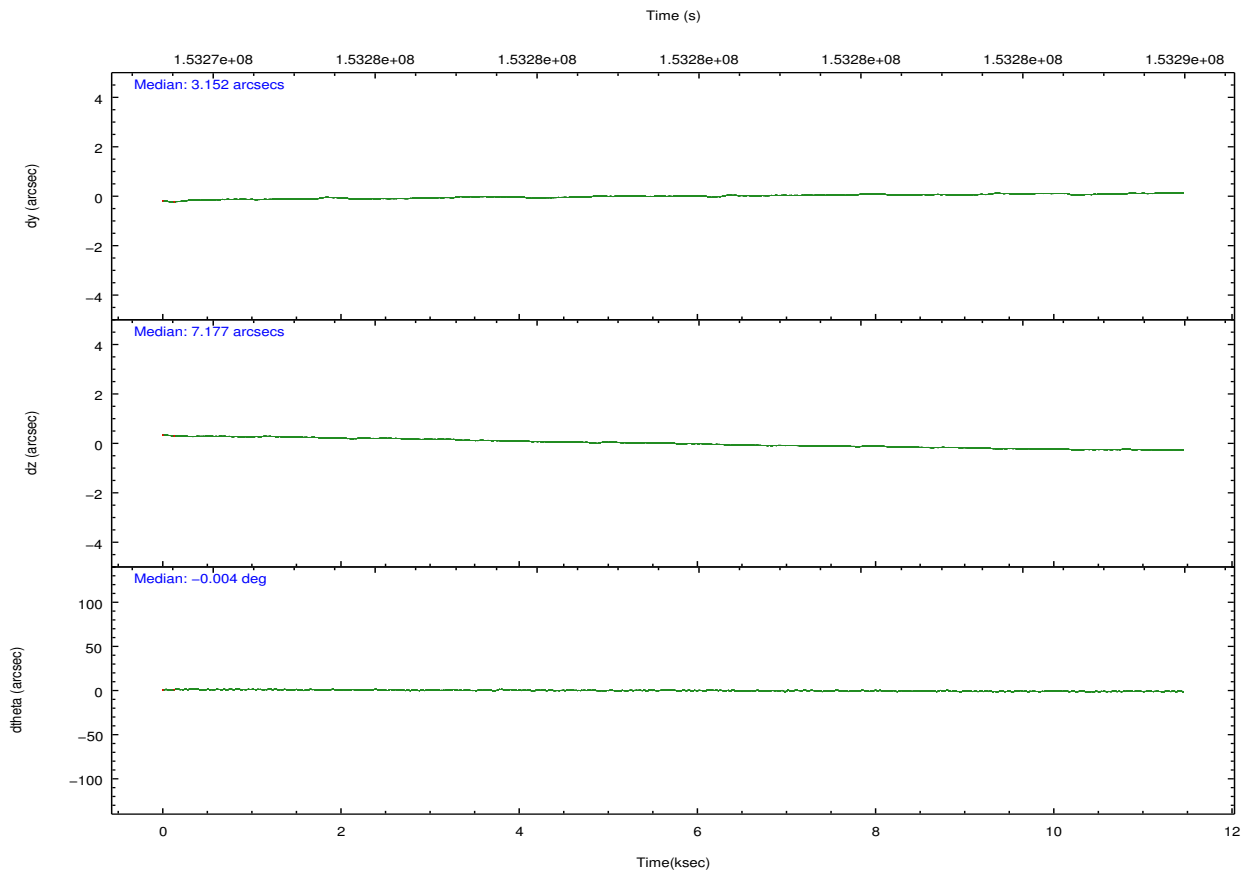
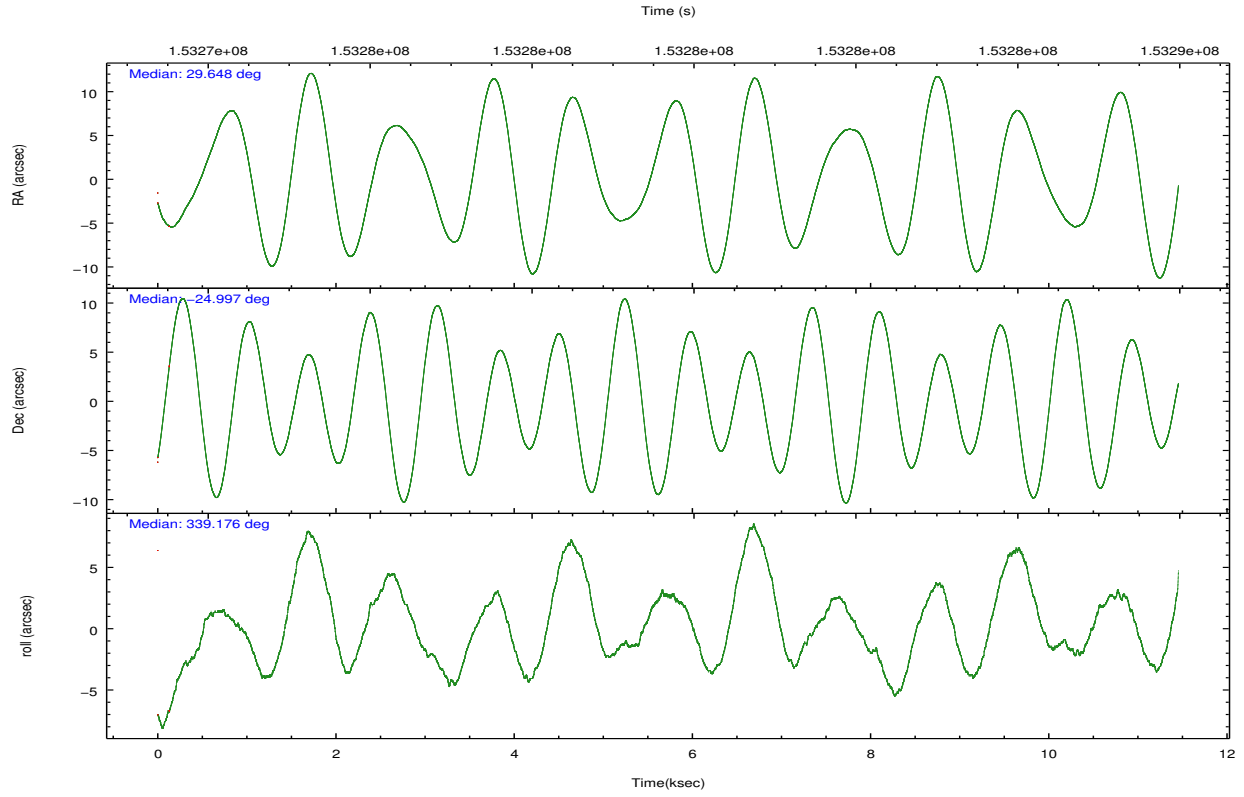
2.1.4 Events

	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	119700	109728	135828	119357	121247	218046	grade 0 events	9525	8424	9898	8546	6921	27676
rejected events	101127	93756	65175	101718	61487	114536		7%	7%	7%	7%	5%	12%
rejected %	84%	85%	47%	85%	50%	52%	grade 1 events	94	77	178	60	156	215
								0%	0%	0%	0%	0%	0%
							grade 2 events	4304	2827	22275	4169	12253	18484
								3%	2%	16%	3%	10%	8%
							grade 3 events	1097	1253	3060	1113	5440	14897
								0%	1%	2%	0%	4%	6%
							grade 4 events	1312	1232	2958	1154	5492	13243
								1%	1%	2%	0%	4%	6%
							grade 5 events	3053	3053	8927	3389	10011	5709
								2%	2%	6%	2%	8%	2%
							grade 6 events	2414	2304	32709	2720	29846	29732
								2%	2%	24%	2%	24%	13%
							grade 7 events	97901	90558	55823	98206	51128	108090
								81%	82%	41%	82%	42%	49%

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	OVERRIDE	OVERRIDE
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	29.619147	29.64871352880363	Subarray requested	NONE	NONE
[deg] Pointing Dec	-25.001948	-24.99726578198041	Alternating exposures requested	N	N
[deg] Pointing Roll	339.008931	339.1780723727212	[s] Primary exposure time	3.2	3.2
[mm] SIM focus pos	-0.6828225247311905	-0.6828225247311905			
[mm] SIM defocus	0.001444942264670179	0.001444942264670179			
[mm] SIM translation stage pos	-190.1425803651734	-190.1425803651734			
[mm] SIM translation stage offset	0.01005726120618533	0.01005726120618533			
[s] Observation start time (MET)	153273950.184000	153273950.184			
Observation start date	2002-11-10T00:04:46	2002-11-10T00:05:50			
[s] Observation end time (MET)	153285409.000000	153285409			
Observation end date	2002-11-10T03:16:49	2002-11-10T03:16:48			
Read mode	TIMED	TIMED			

2.3 Aspect

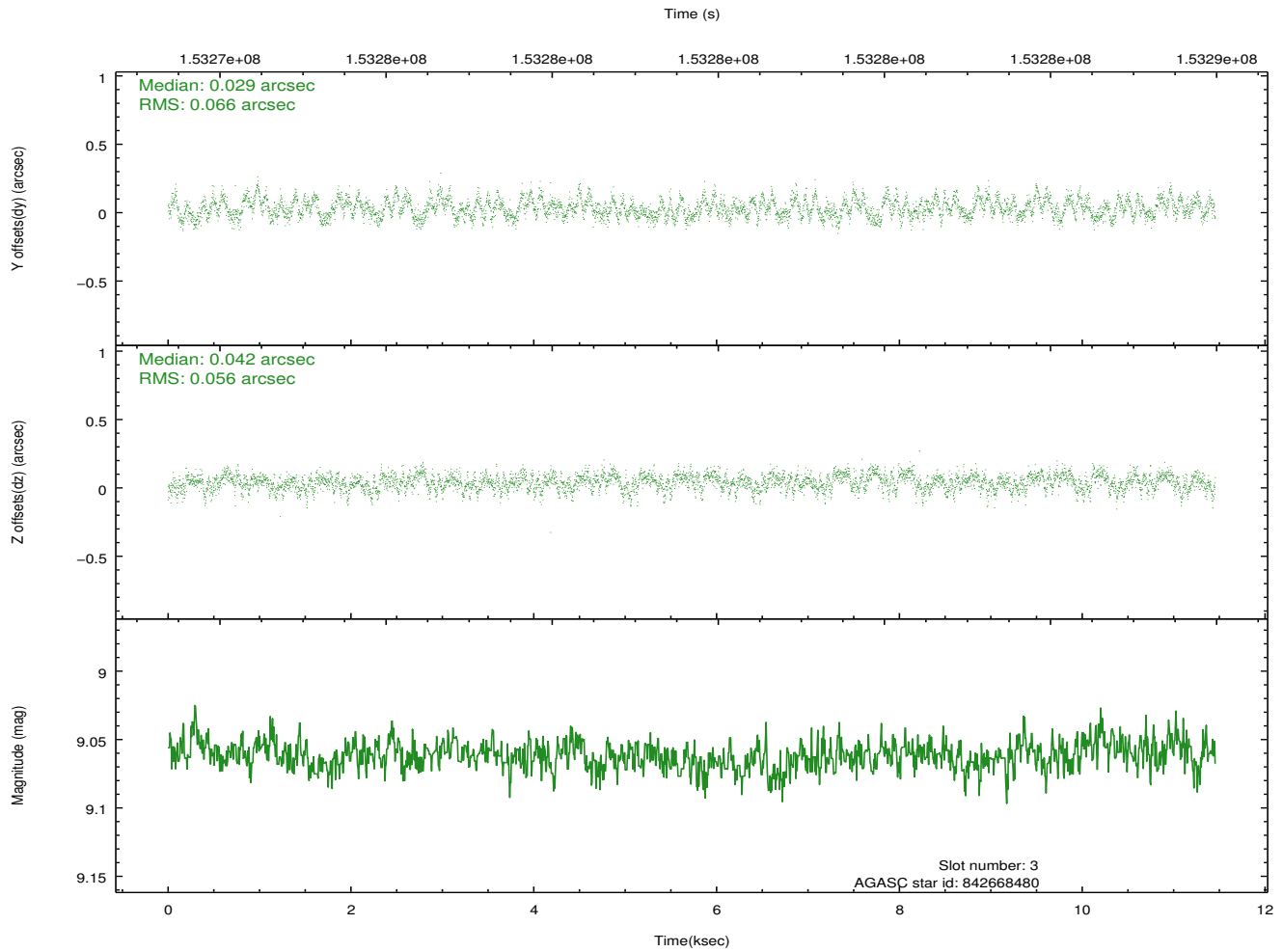
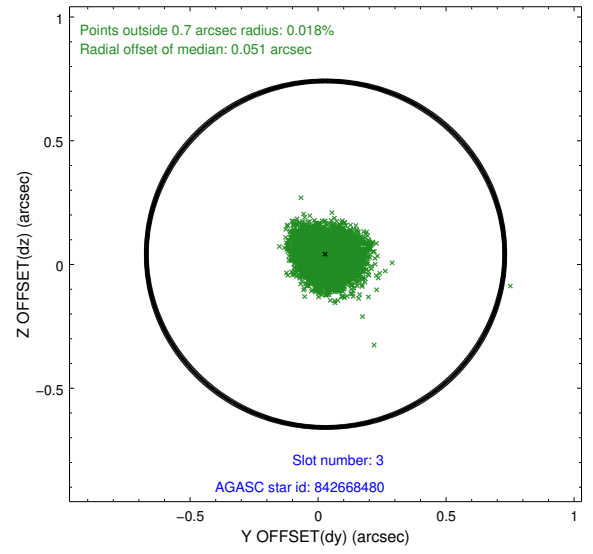
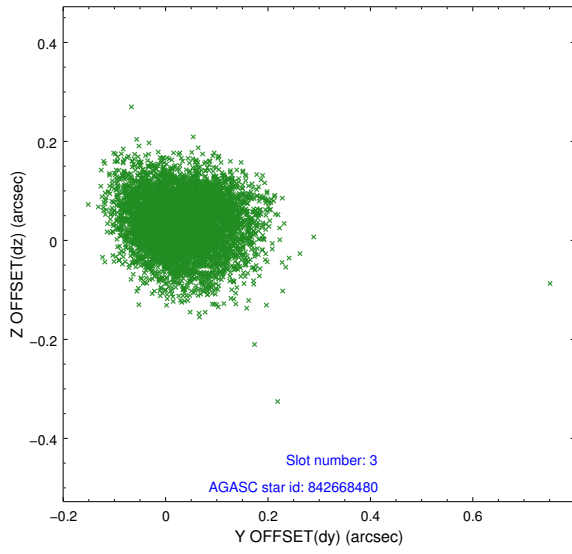


Slot Statistics

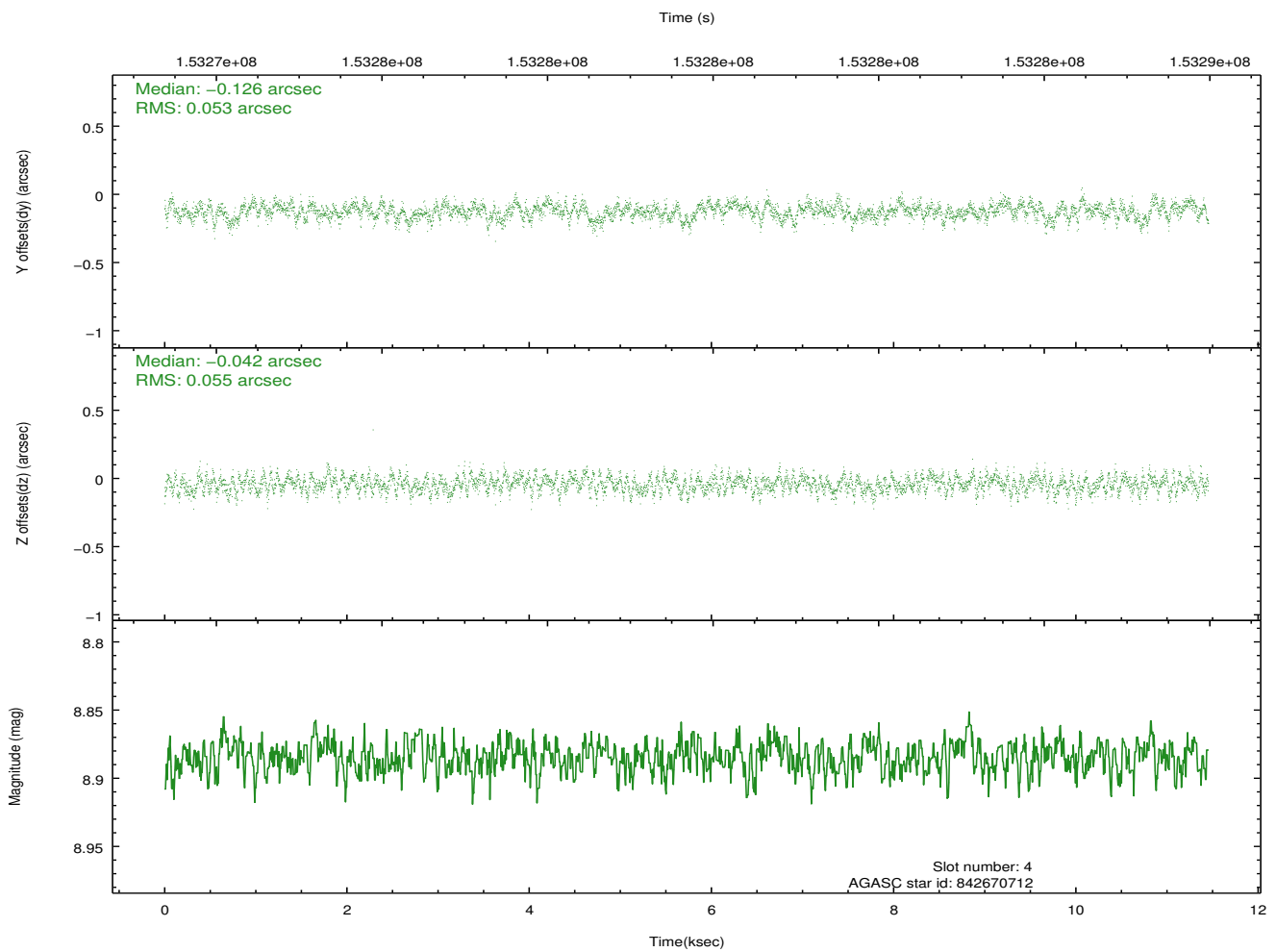
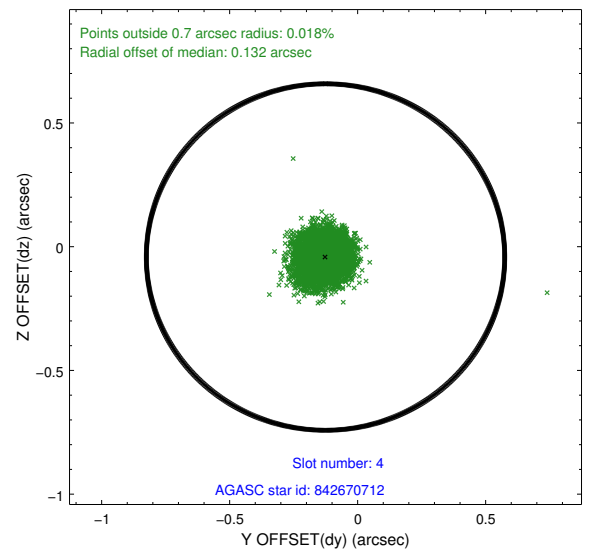
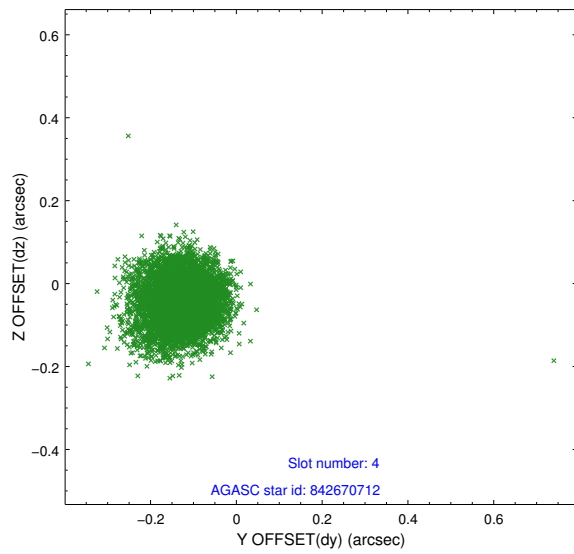
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.12	2794	-0.016	0.001	0.008	0.014	0.000000	0.000000	-755.80	-1728.30
1	FID	ACIS-S-4	7.21	2794	-0.008	0.008	0.010	0.016	0.000000	0.000000	2157.28	179.74
2	FID	ACIS-S-5	7.24	2795	-0.007	0.000	0.008	0.012	0.000000	0.000000	-1808.07	173.90
3	GUIDE	842668480	9.06	5585	0.029	0.042	0.093	0.146	29.175764	-24.463880	-2048.16	1285.91
4	GUIDE	842670712	8.88	5583	-0.126	-0.042	0.081	0.129	28.813951	-25.367148	-1970.74	-2172.97
5	GUIDE	842793760	9.06	5584	0.085	0.142	0.072	0.117	30.157453	-25.316128	2043.09	-431.94
6	GUIDE	842795112	9.44	5584	0.006	-0.011	0.095	0.156	30.362801	-24.972157	2231.51	963.31
7	GUIDE	842799376	8.67	5586	0.003	-0.125	0.077	0.122	29.385201	-25.507630	-55.46	-1972.50

2.4 Star Slots

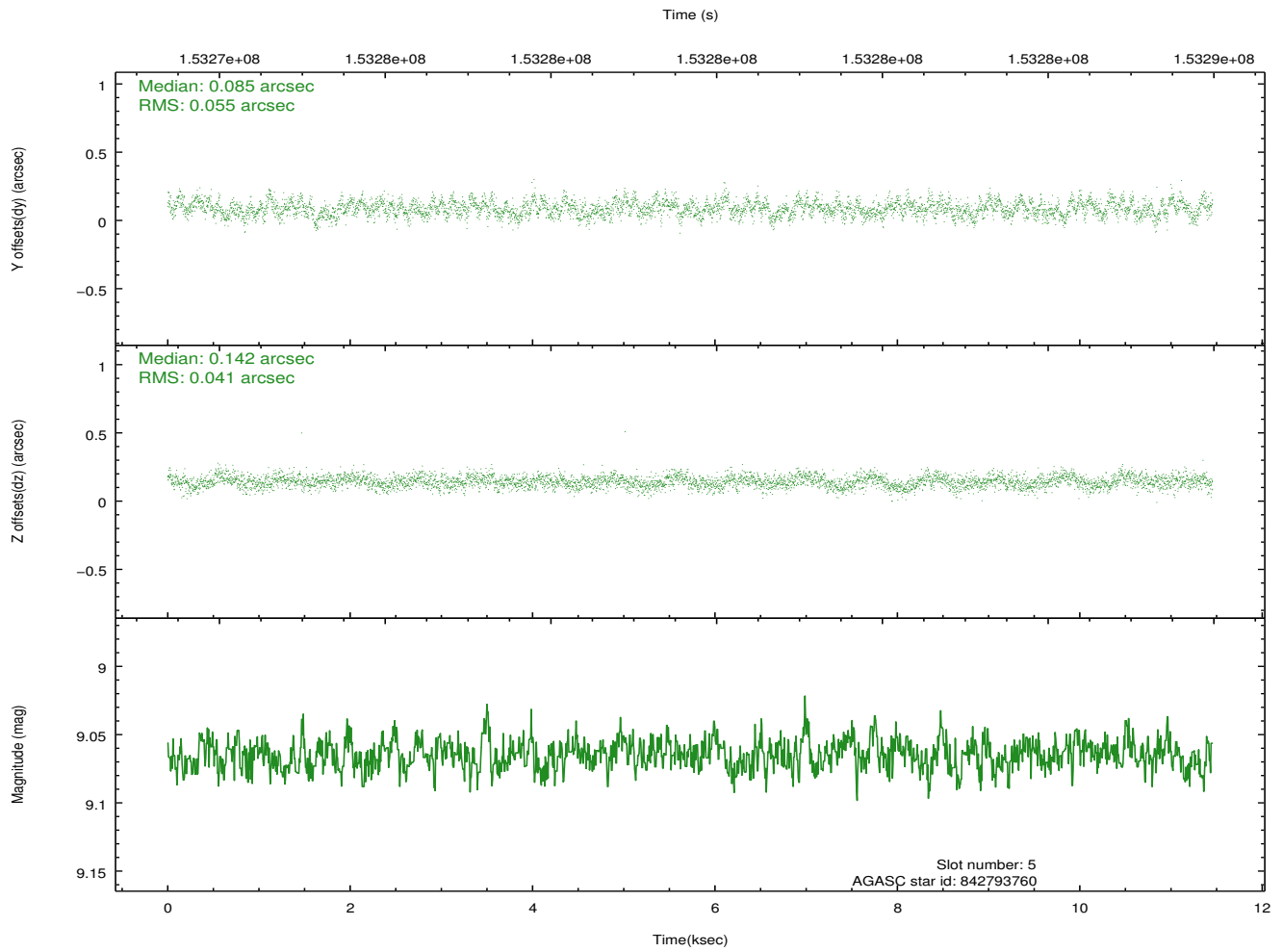
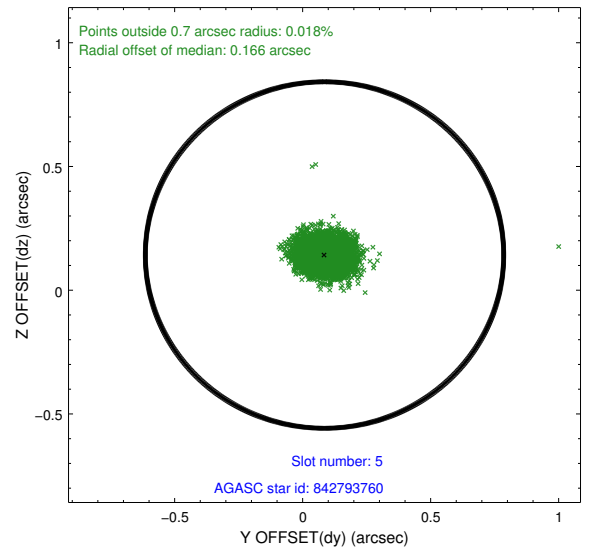
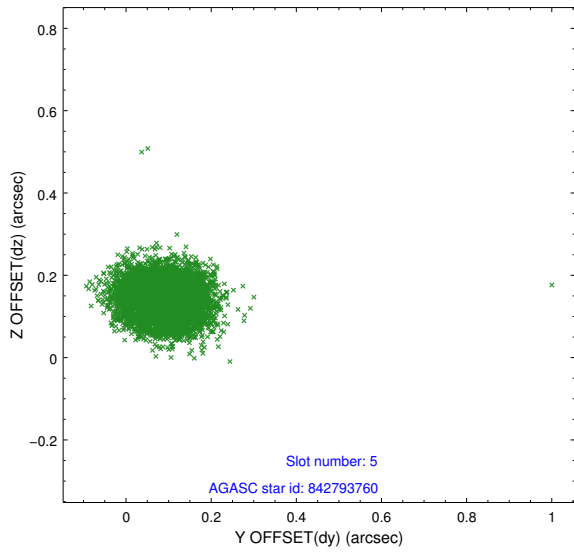
2.4.1 Slot 3



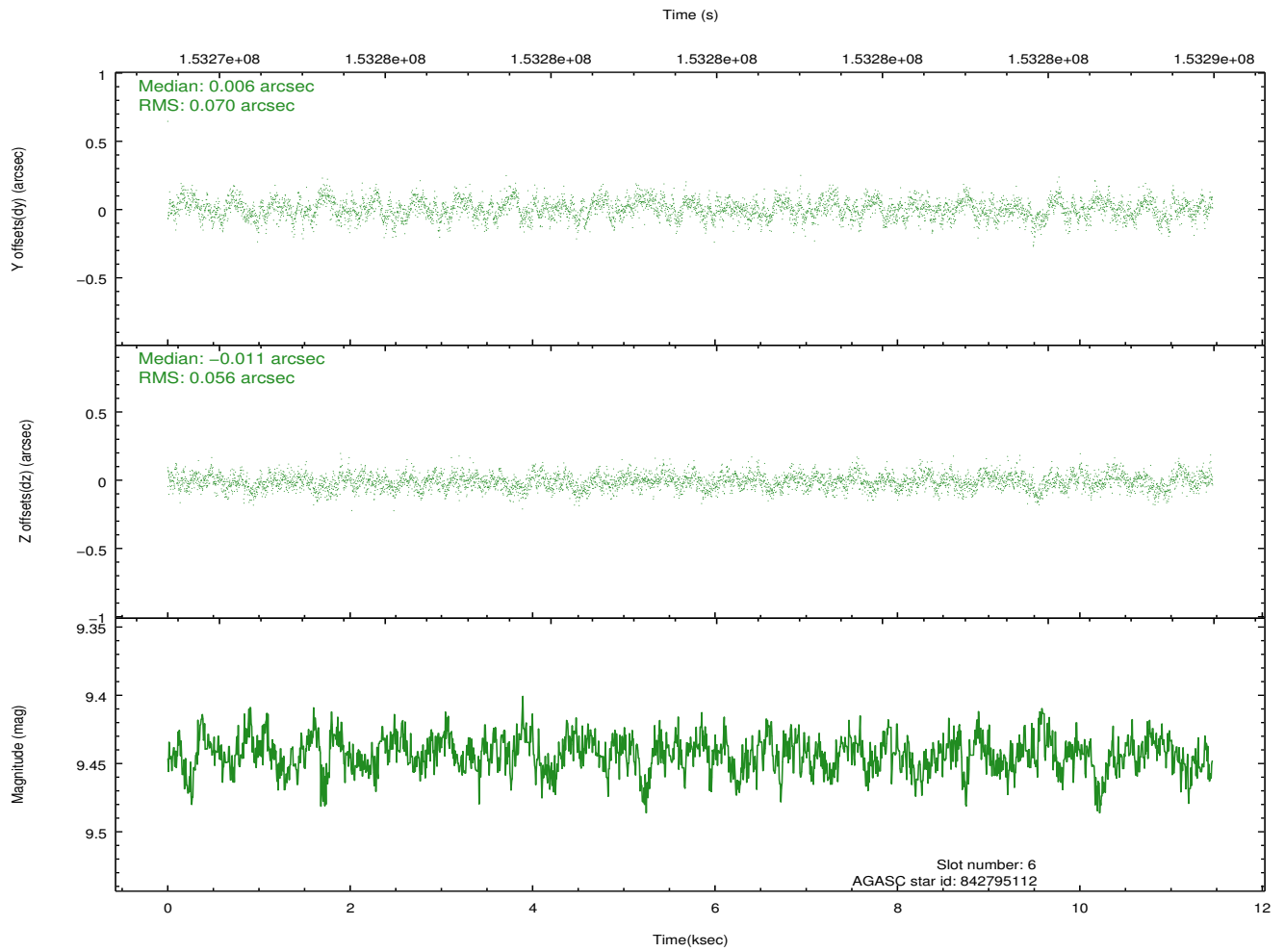
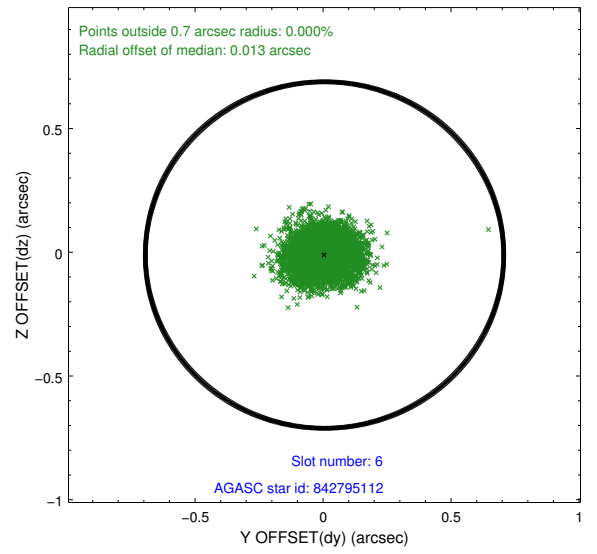
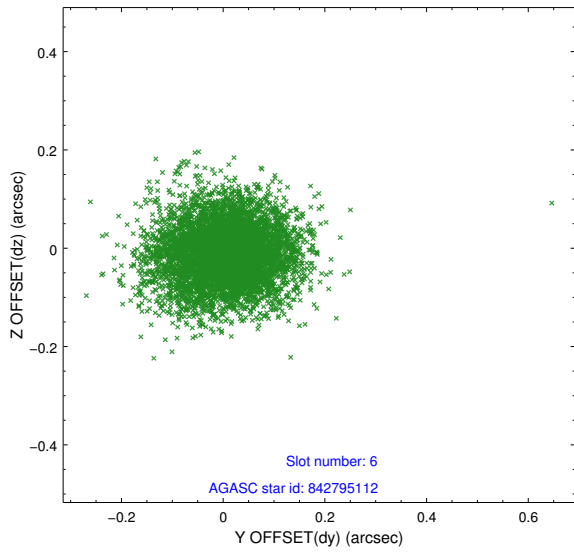
2.4.2 Slot 4



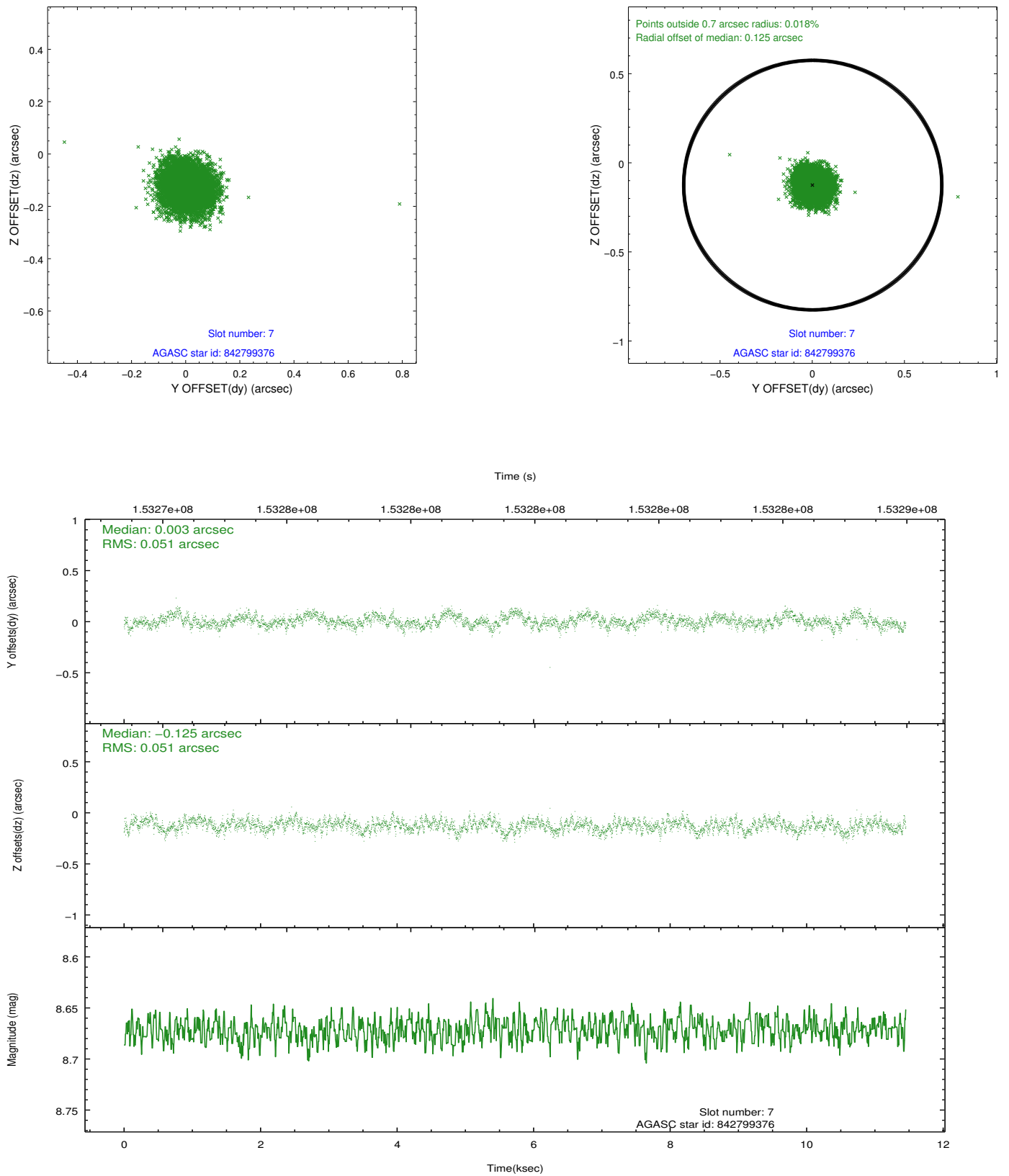
2.4.3 Slot 5



2.4.4 Slot 6

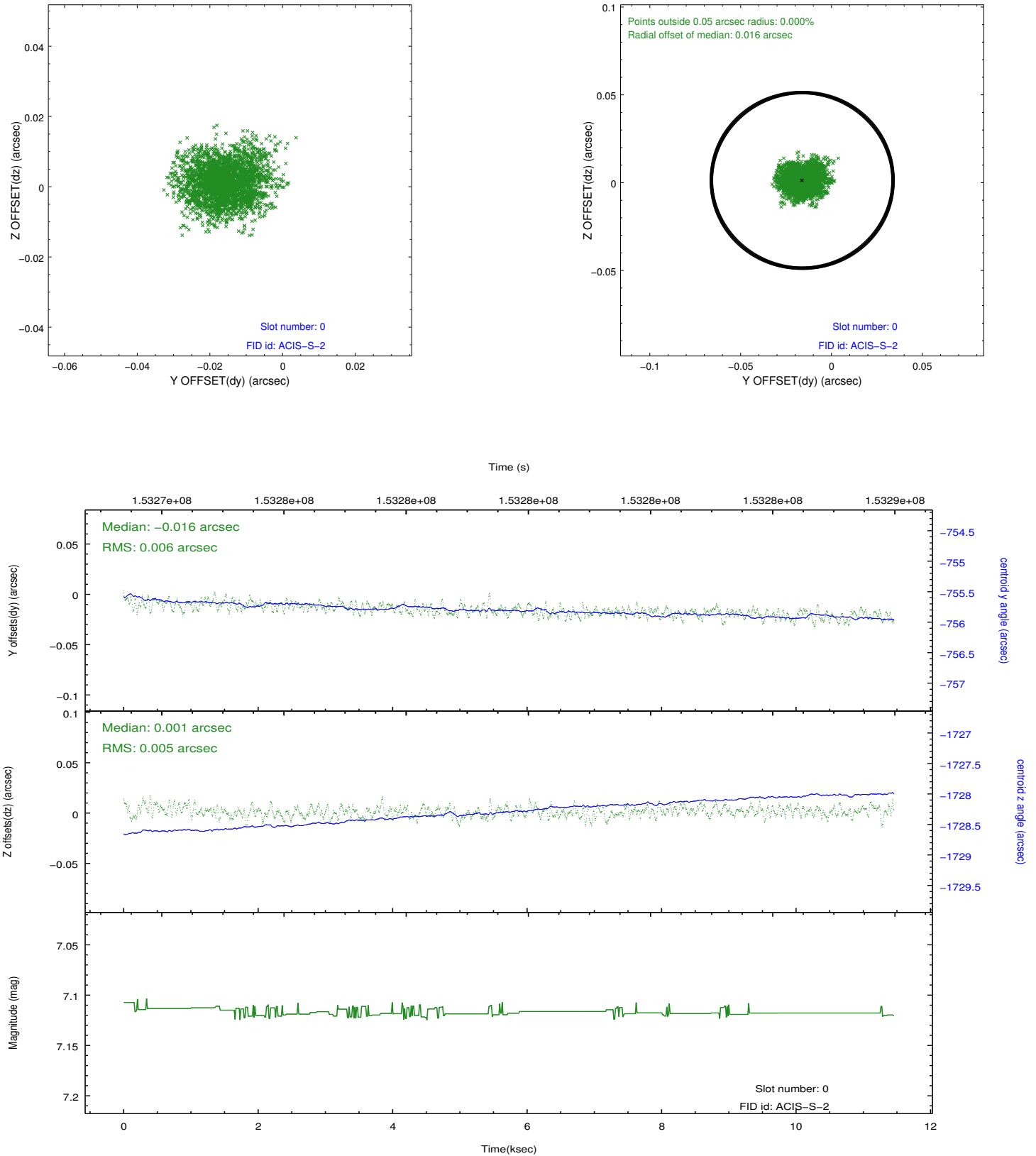


2.4.5 Slot 7

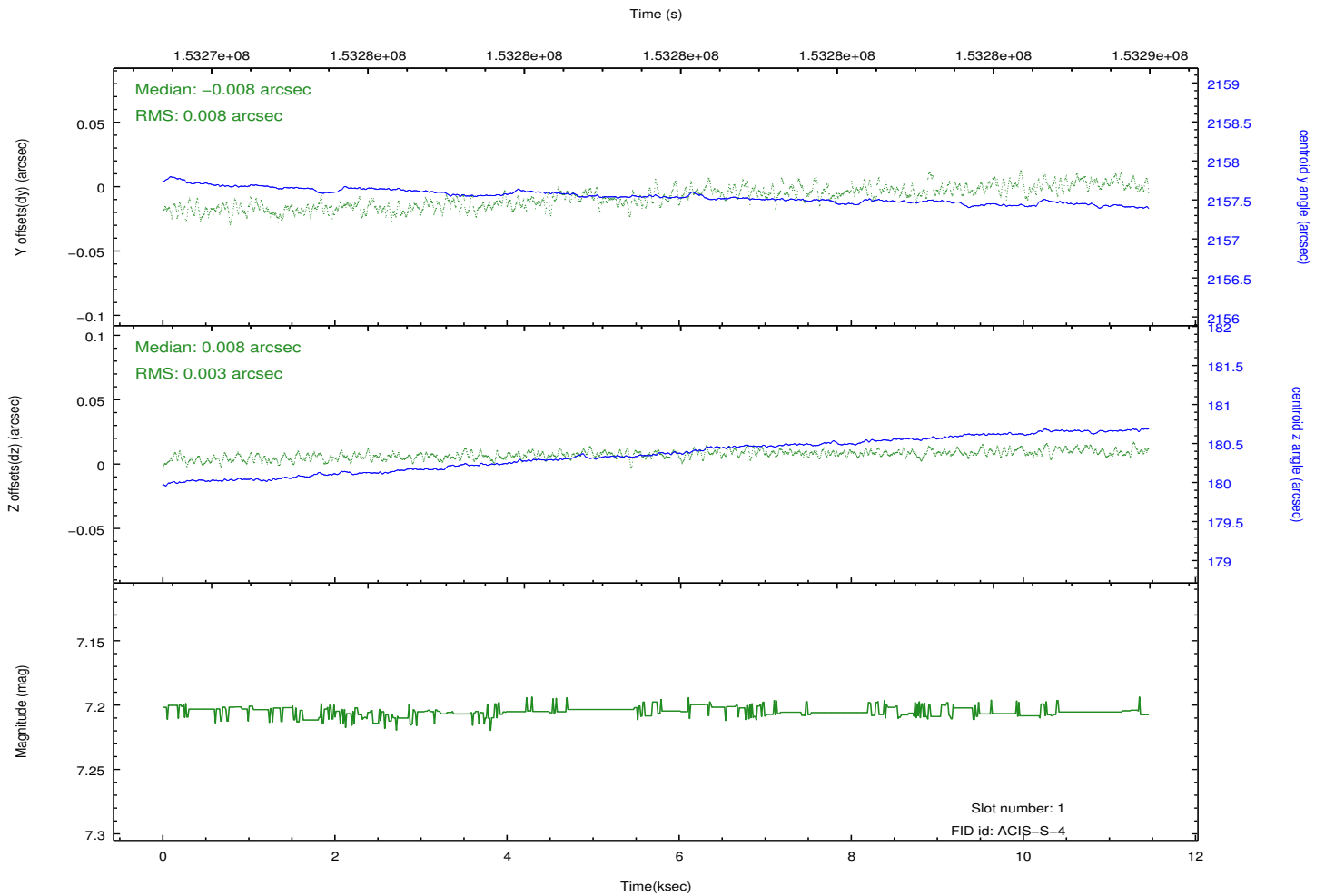
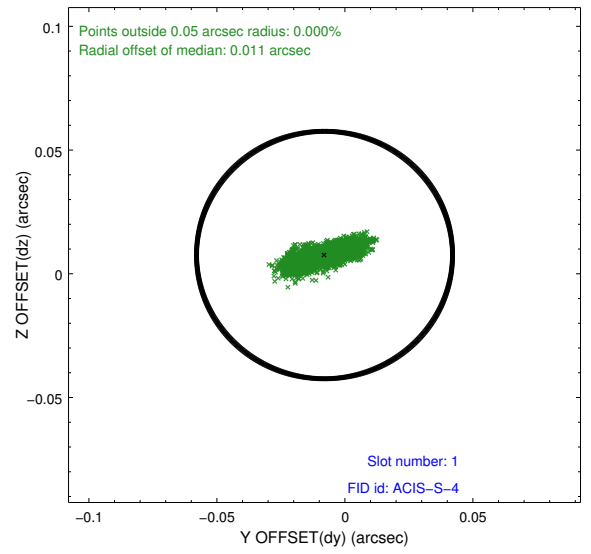
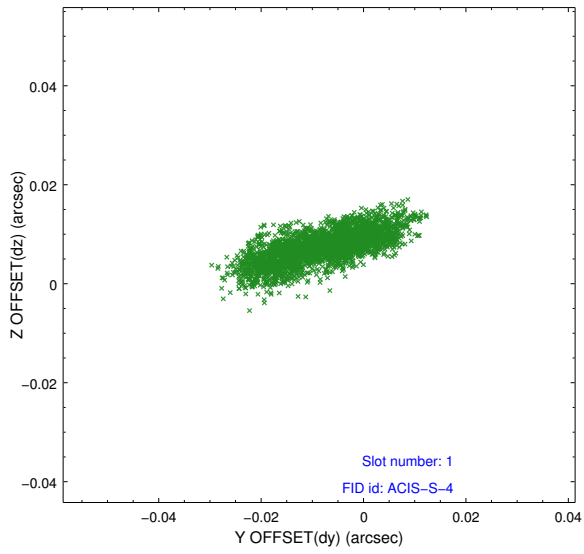


2.5 FID Slots

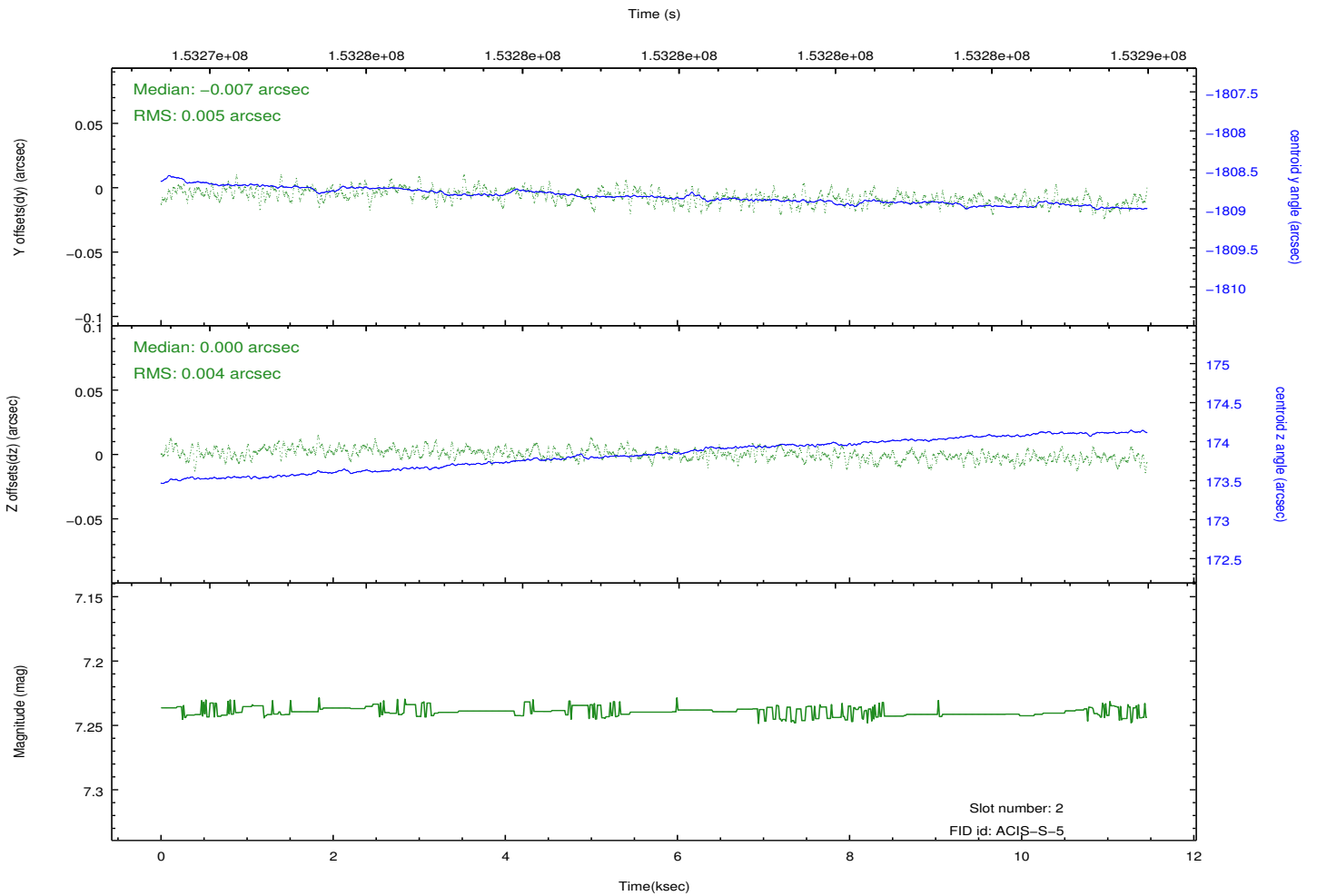
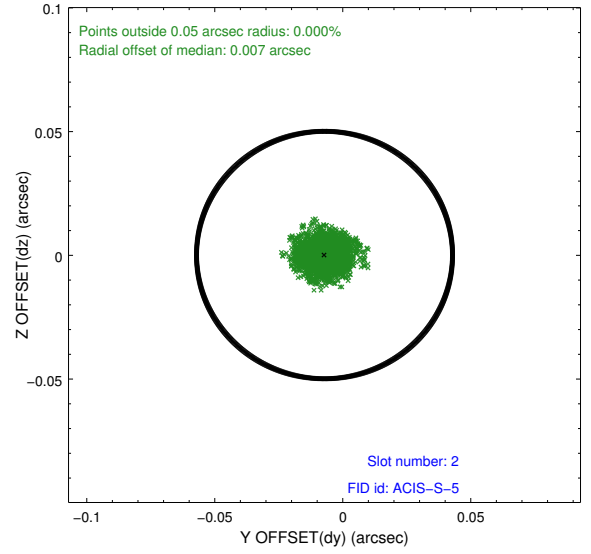
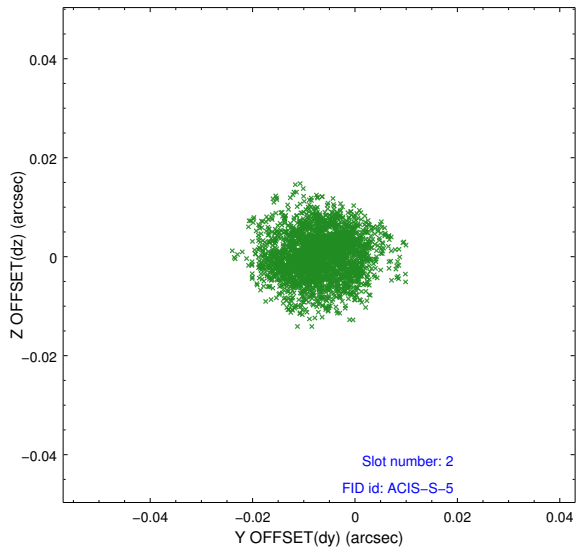
2.5.1 Slot 0



2.5.2 Slot 1



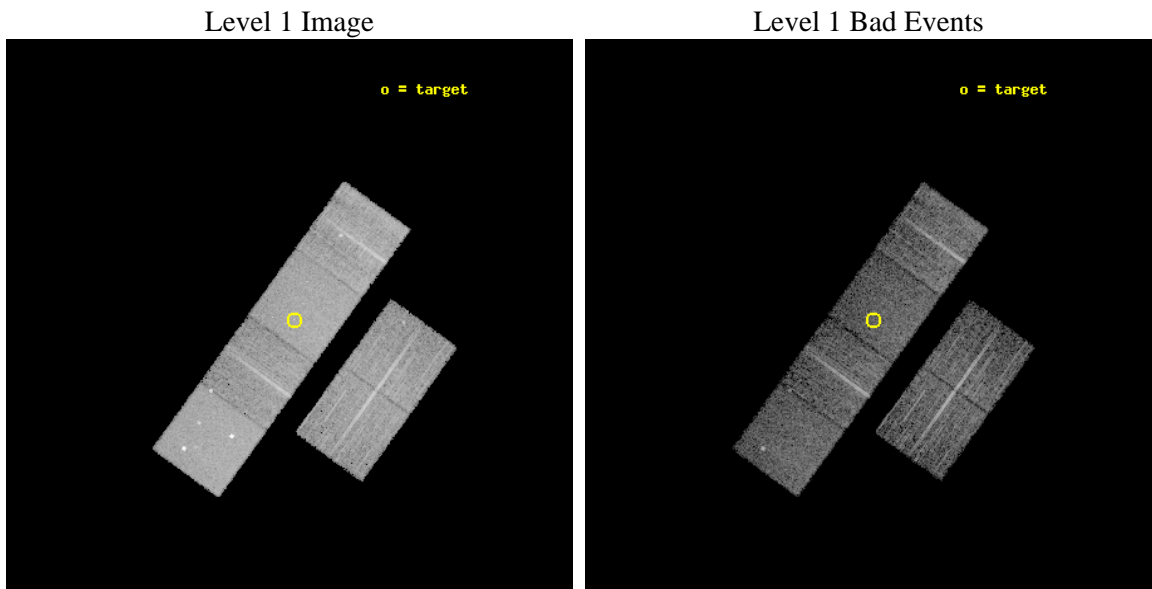
2.5.3 Slot 2



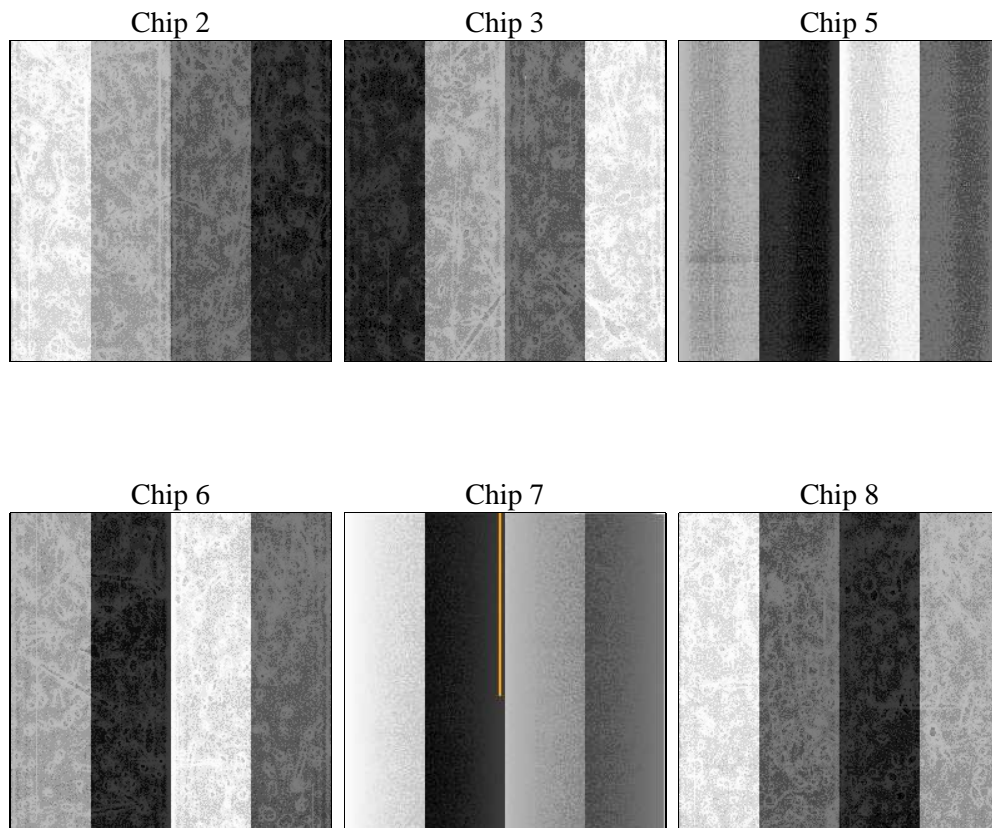
3 OBI

3.1 OBI

3.1.1 Images



3.1.2 Bias



3.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	8431.000000	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	8392.1927497089	Sum of GTIs [s]
caldbver	4.5.5	 	ontime2	8392.2337897122	Sum of GTIs [s]
date	2013-02-22T18:22:17	Date and time of file creation	ontime3	8388.828659445	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	8392.1517097056	Sum of GTIs [s]
			ontime6	8392.1106697023	Sum of GTIs [s]
			ontime7	8392.1927497089	Sum of GTIs [s]
			ontime8	8392.0285897255	Sum of GTIs [s]
			l1events	365524	Number of level 1 events

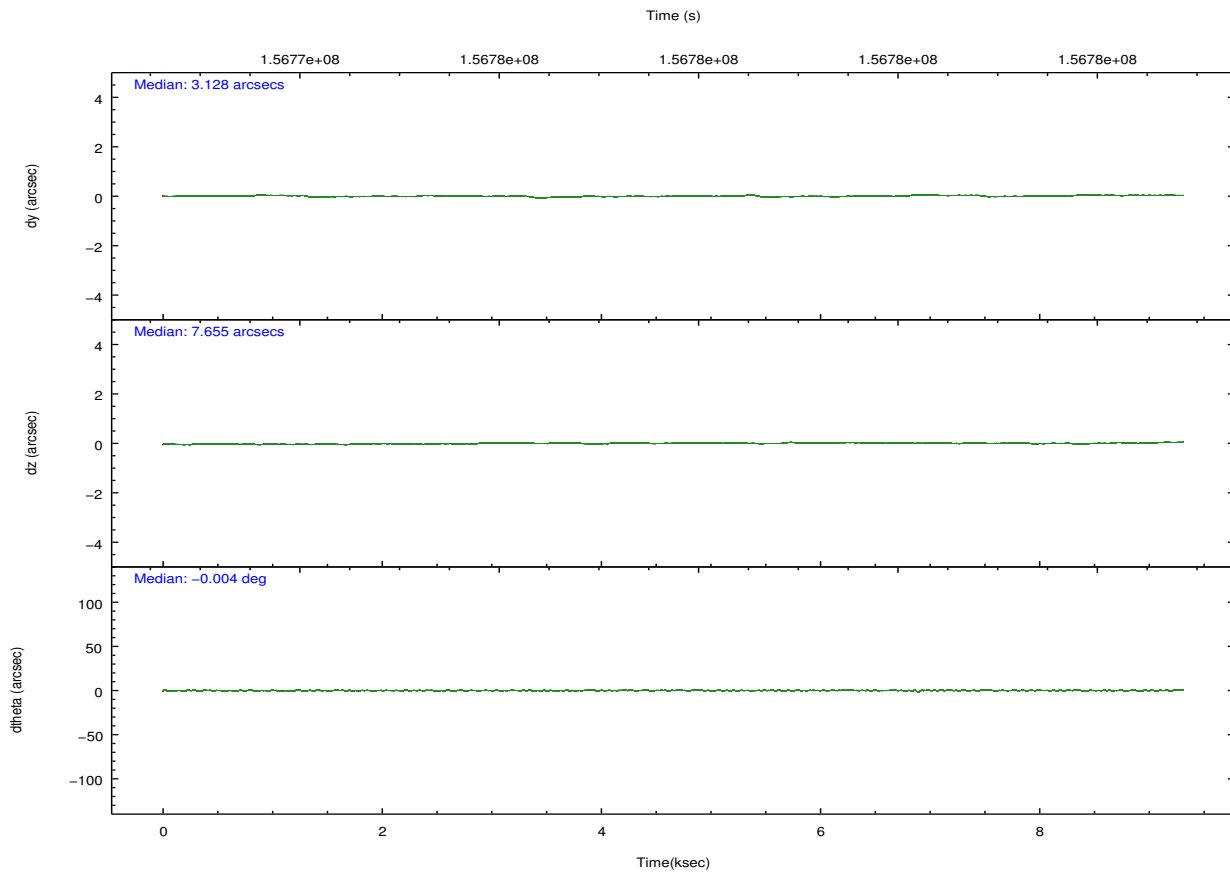
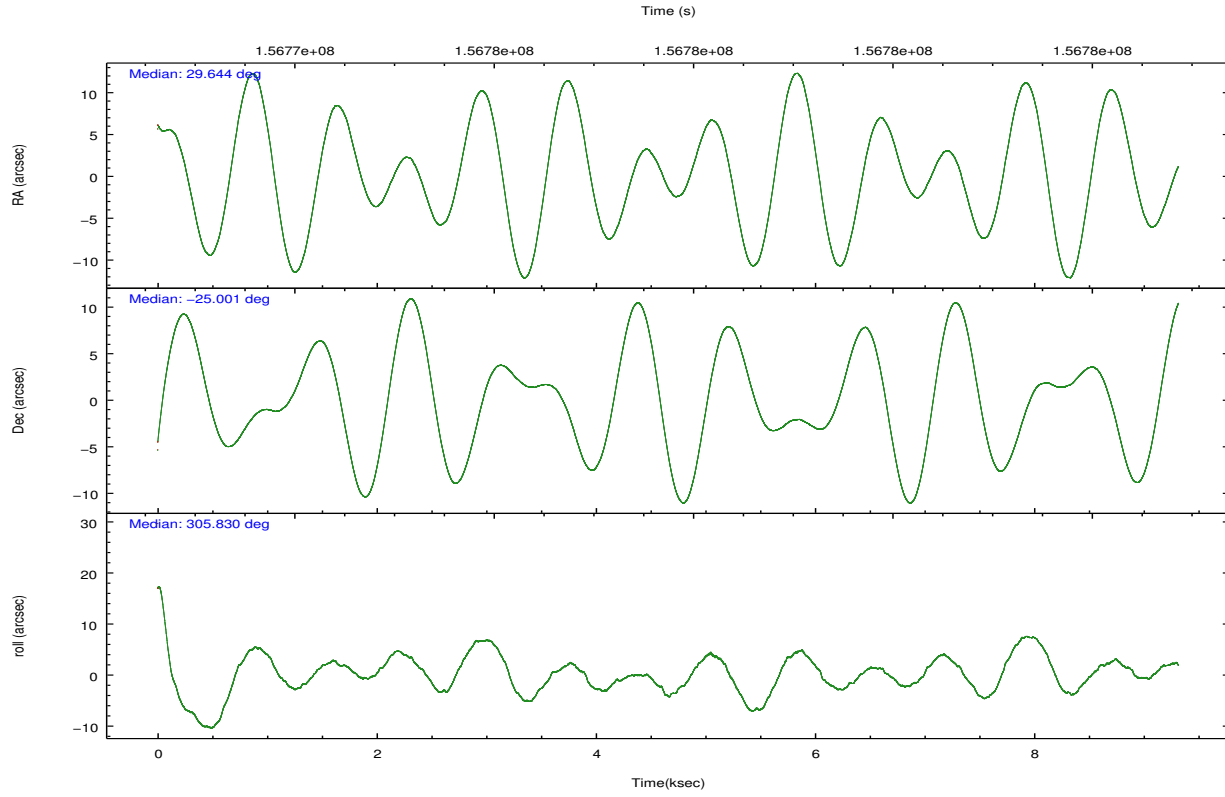
3.1.4 Events

	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	52316	49960	76358	51219	66065	69606	grade 0 events	2940	3072	6305	2745	2646	6134
rejected events	45684	43103	40267	44348	38464	51851		5%	6%	8%	5%	4%	8%
rejected %	87%	86%	52%	86%	58%	74%	grade 1 events	26	34	539	10	76	64
								0%	0%	0%	0%	0%	0%
							grade 2 events	1388	1351	9839	1507	5426	3512
								2%	2%	12%	2%	8%	5%
							grade 3 events	557	614	1511	599	2419	2076
								1%	1%	1%	1%	3%	2%
							grade 4 events	612	621	1402	616	2494	1897
								1%	1%	1%	1%	3%	2%
							grade 5 events	1866	2077	5578	2214	6419	2884
								3%	4%	7%	4%	9%	4%
							grade 6 events	1140	1209	17070	1412	14639	4157
								2%	2%	22%	2%	22%	5%
							grade 7 events	43787	40982	34114	42116	31946	48882
								83%	82%	44%	82%	48%	70%

3.2 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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	29.616646	29.6442144338694	Subarray requested	NONE	NONE
[deg] Pointing Dec	-24.990173	-25.00093519920861	Alternating exposures requested	N	N
[deg] Pointing Roll	305.669707	305.8379935835287	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	156773969.184000	156772661.06327			
Observation start date	2002-12-20T12:18:25	2002-12-20T11:57:41			
[s] Observation end time (MET)	156782400.184000	156783062.7637			
Observation end date	2002-12-20T14:38:56	2002-12-20T14:51:02			
Read mode	TIMED	TIMED			

3.3 Aspect

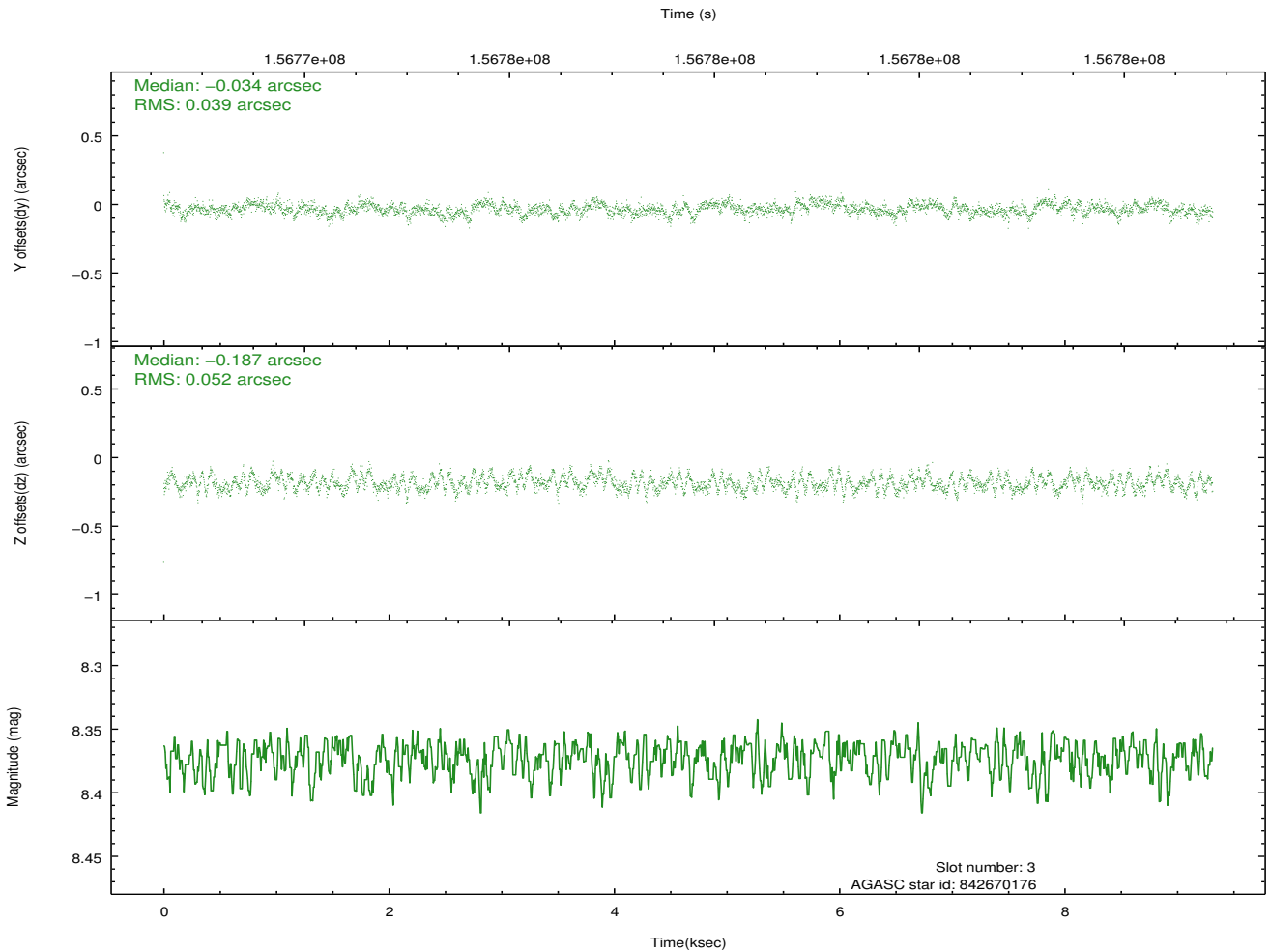
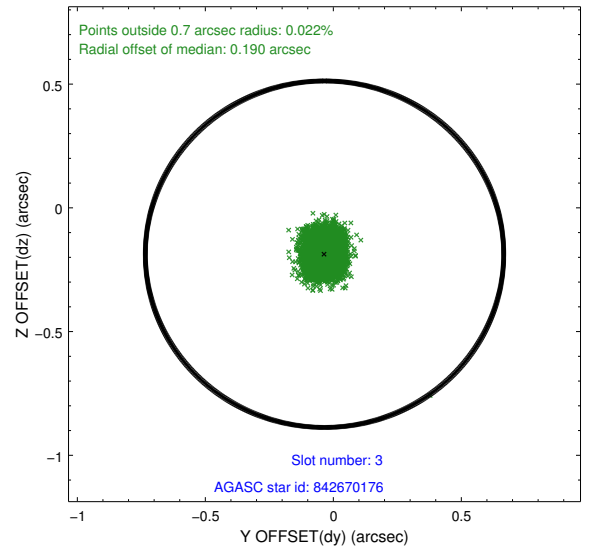
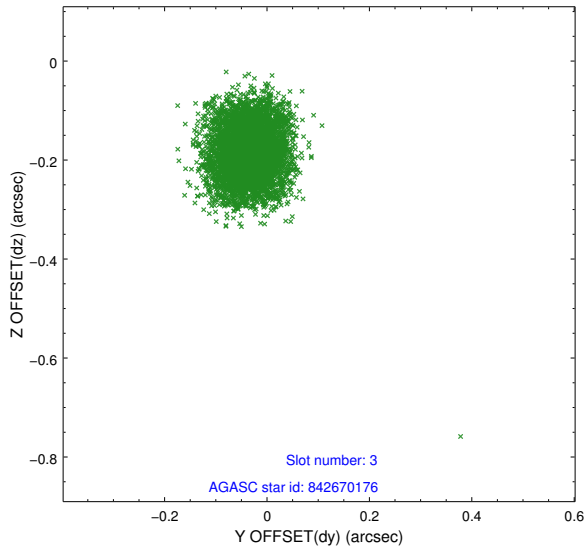


Slot Statistics

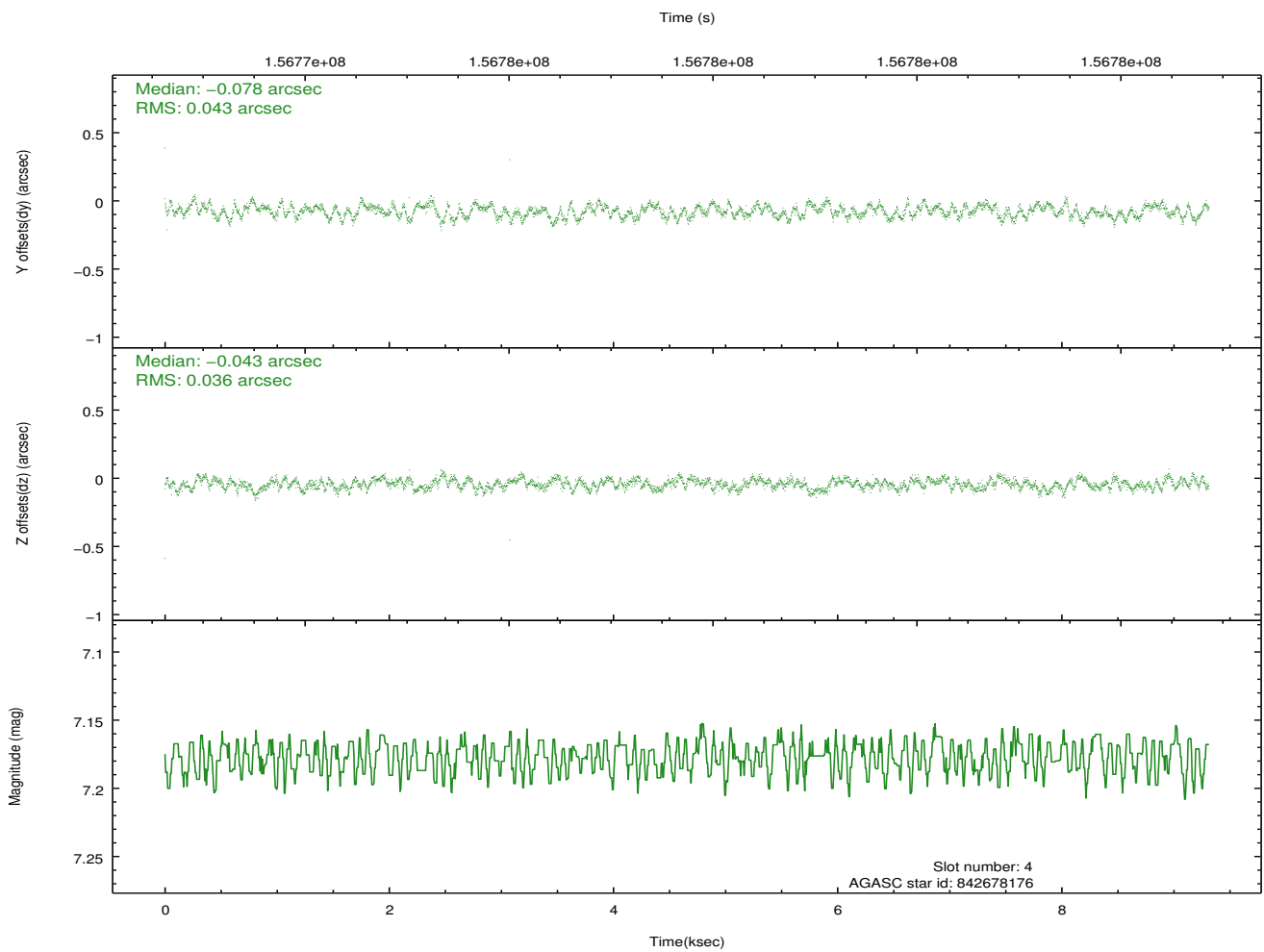
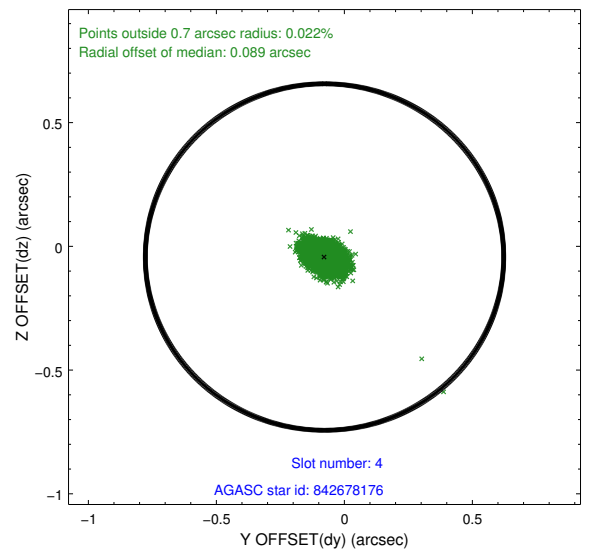
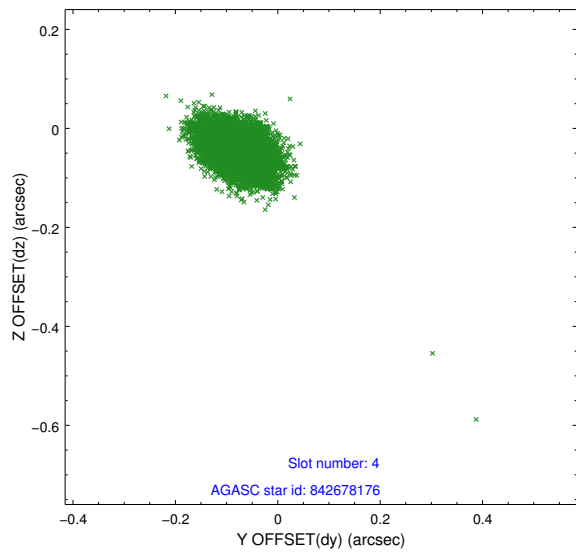
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.12	2794	-0.016	0.001	0.008	0.014	0.000000	0.000000	-755.80	-1728.30
1	FID	ACIS-S-4	7.21	2794	-0.008	0.008	0.010	0.016	0.000000	0.000000	2157.28	179.74
2	FID	ACIS-S-5	7.24	2795	-0.007	0.000	0.008	0.012	0.000000	0.000000	-1808.07	173.90
3	GUIDE	842668480	9.06	5585	0.029	0.042	0.093	0.146	29.175764	-24.463880	-2048.16	1285.91
4	GUIDE	842670712	8.88	5583	-0.126	-0.042	0.081	0.129	28.813951	-25.367148	-1970.74	-2172.97
5	GUIDE	842793760	9.06	5584	0.085	0.142	0.072	0.117	30.157453	-25.316128	2043.09	-431.94
6	GUIDE	842795112	9.44	5584	0.006	-0.011	0.095	0.156	30.362801	-24.972157	2231.51	963.31
7	GUIDE	842799376	8.67	5586	0.003	-0.125	0.077	0.122	29.385201	-25.507630	-55.46	-1972.50

3.4 Star Slots

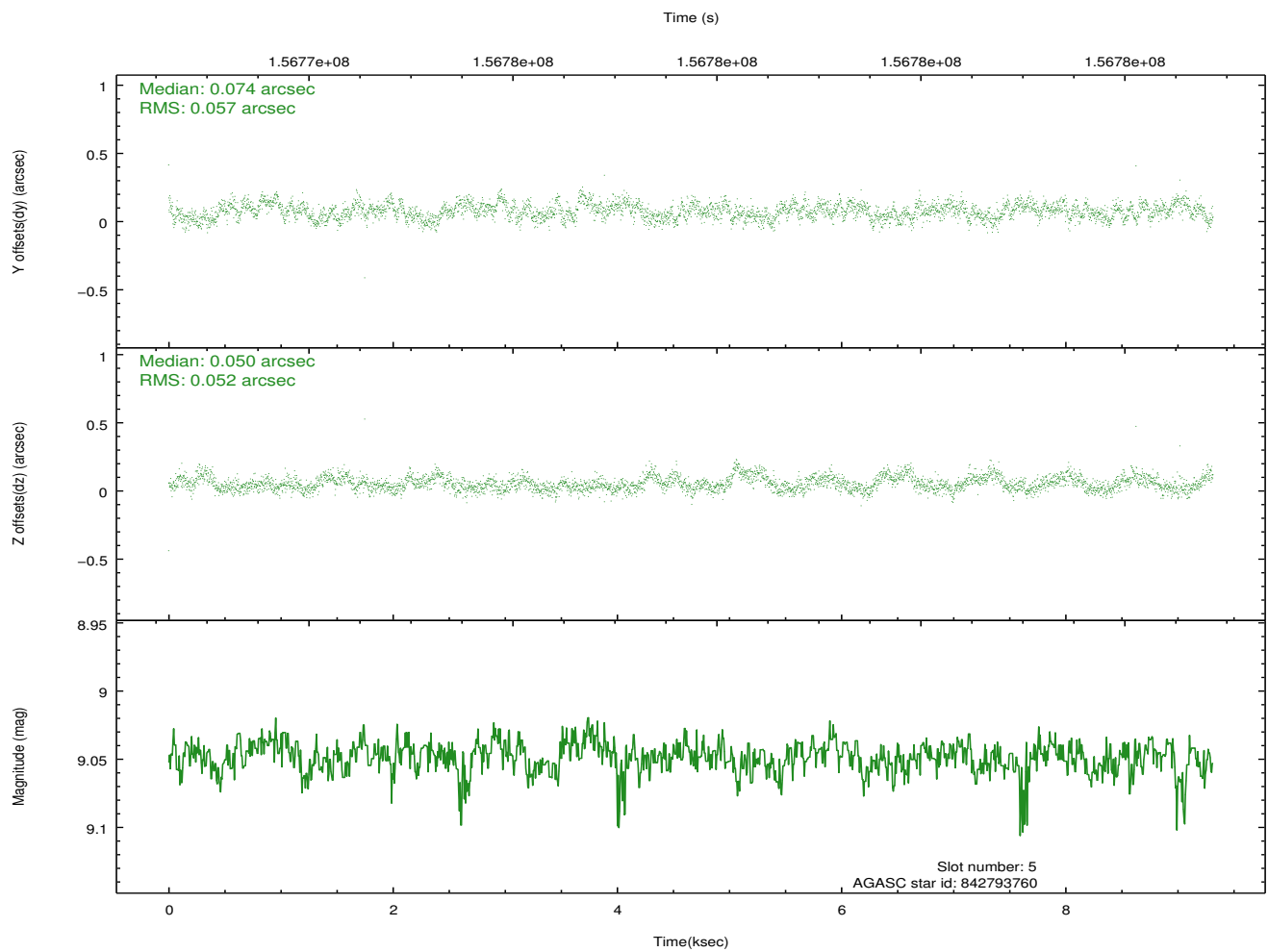
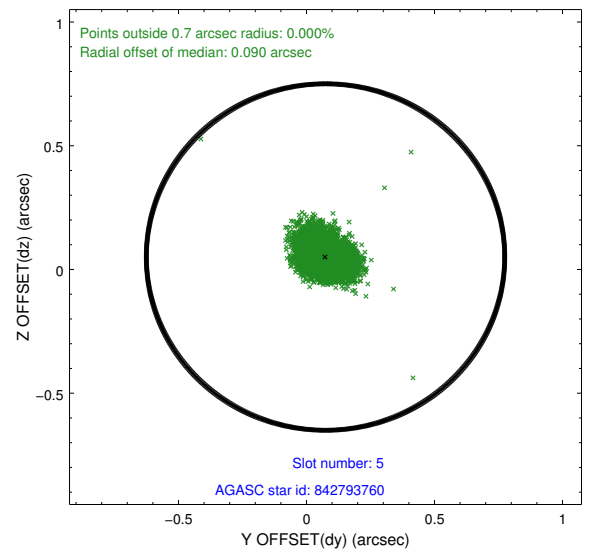
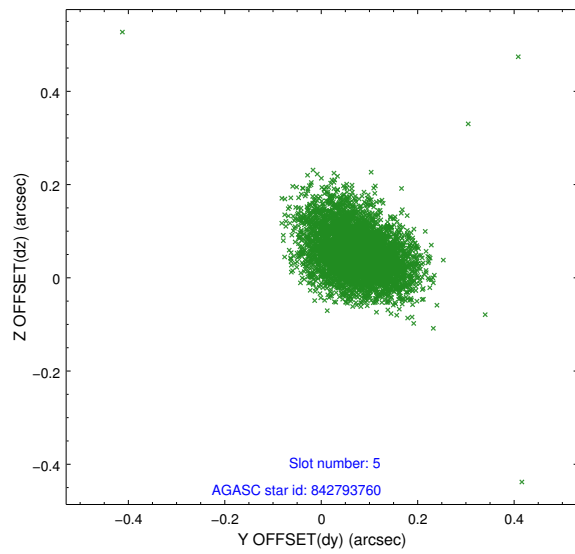
3.4.1 Slot 3



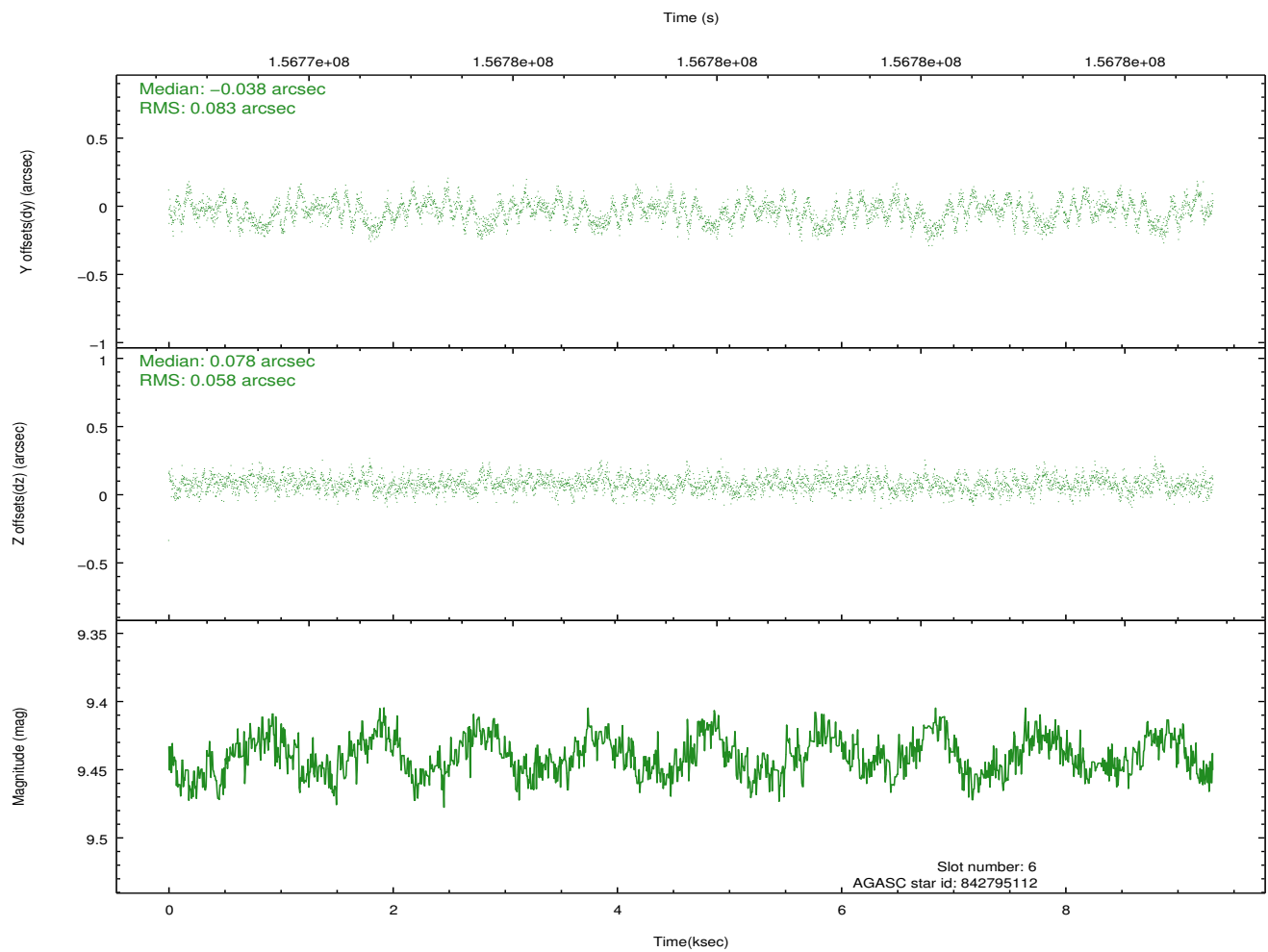
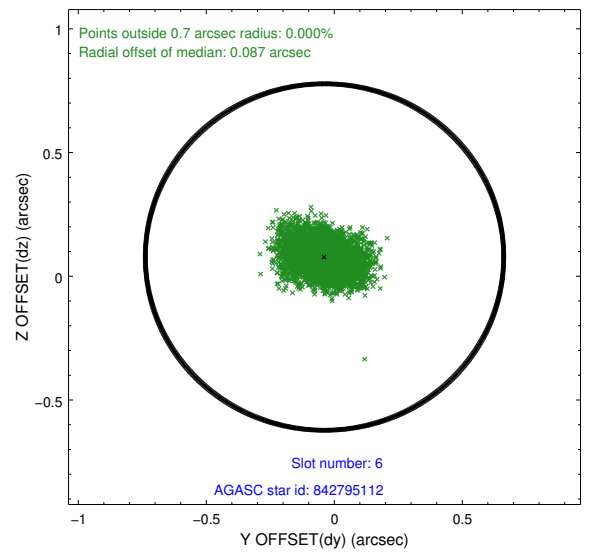
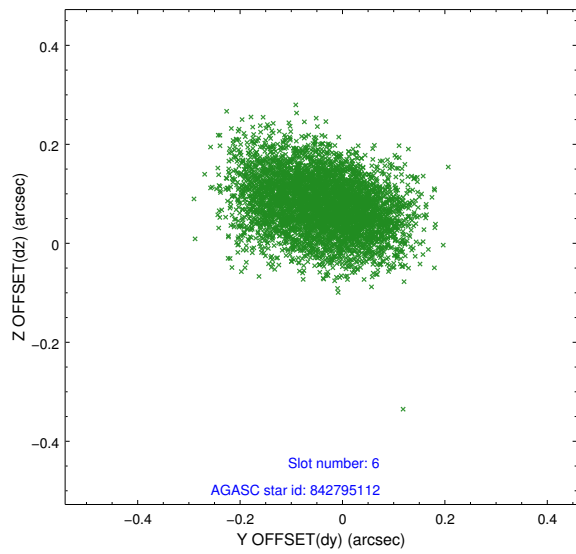
3.4.2 Slot 4



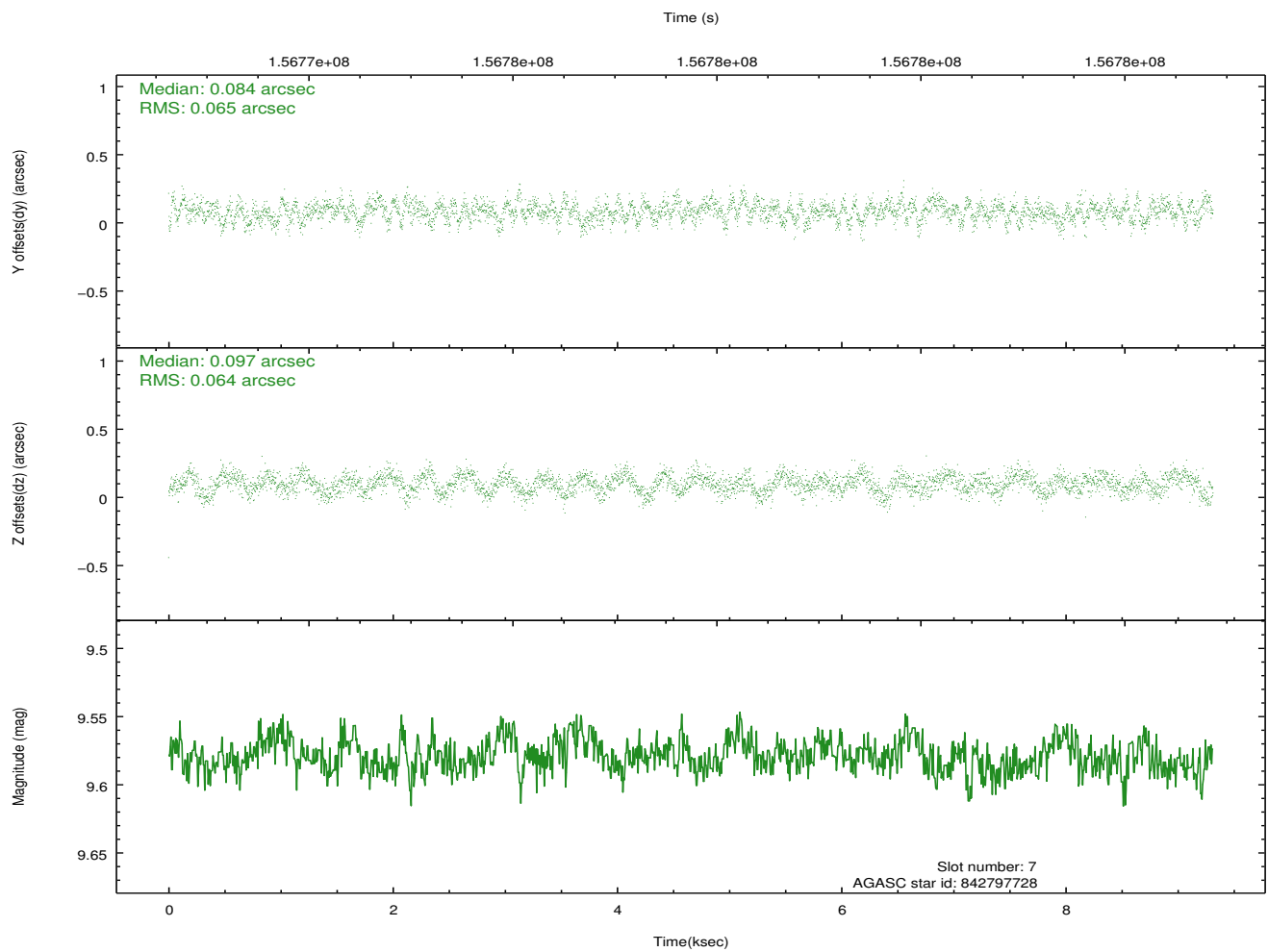
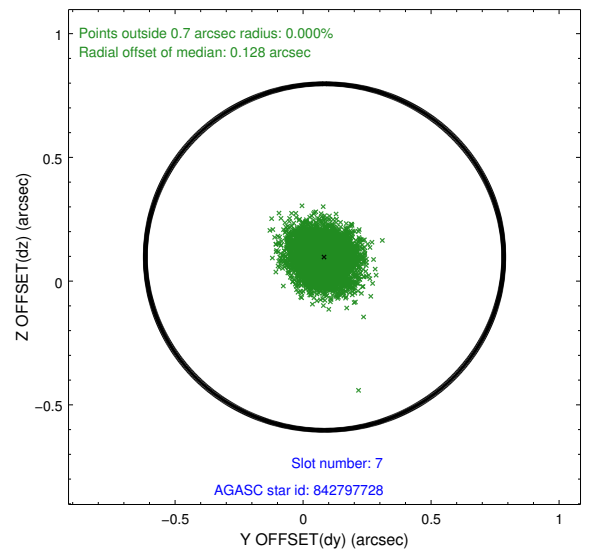
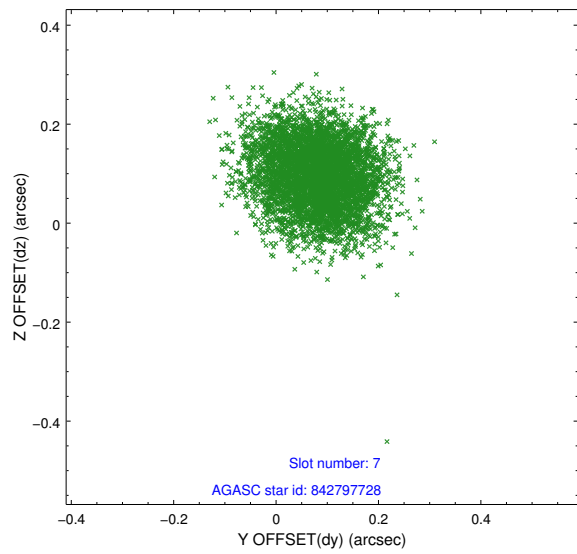
3.4.3 Slot 5



3.4.4 Slot 6

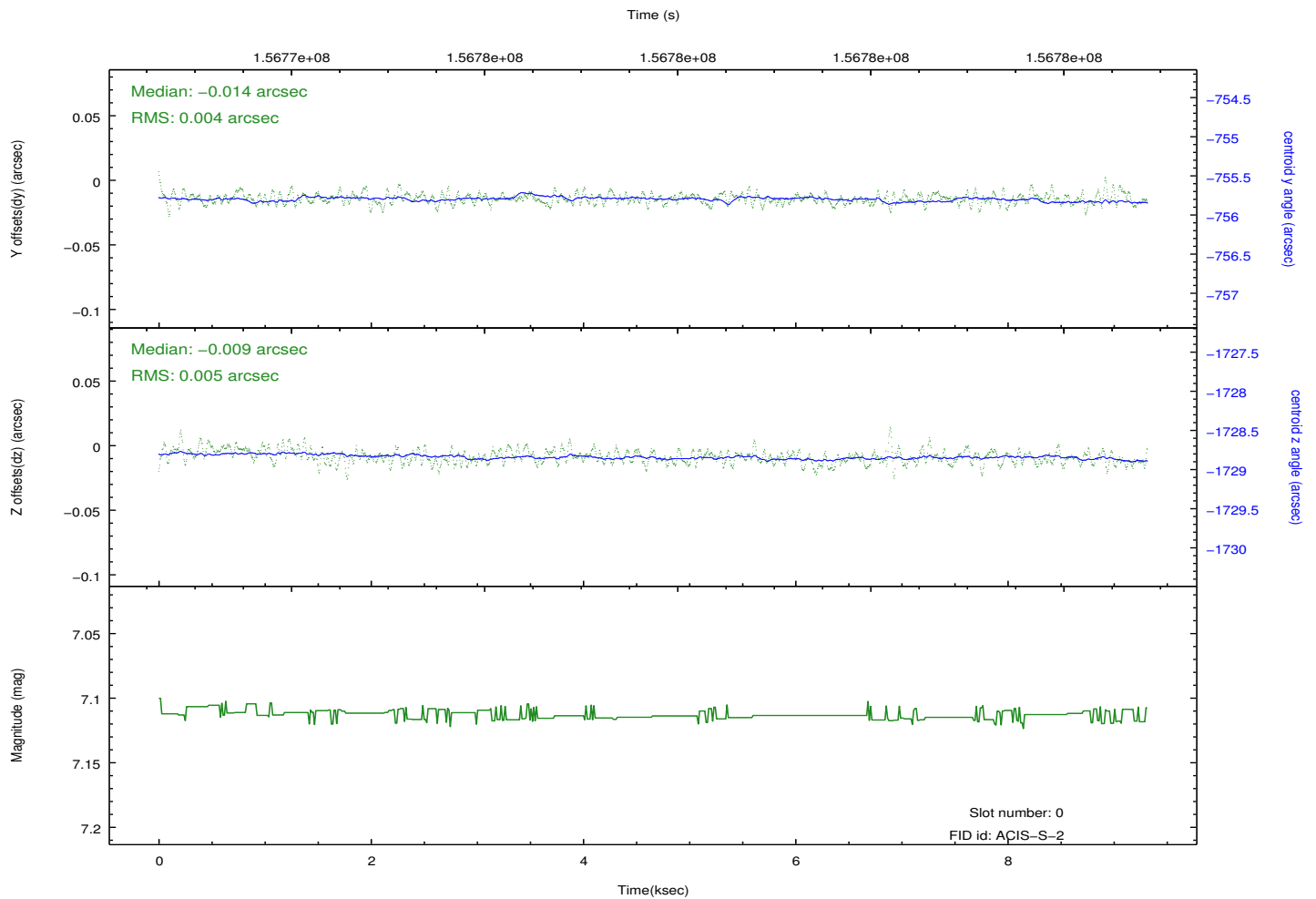
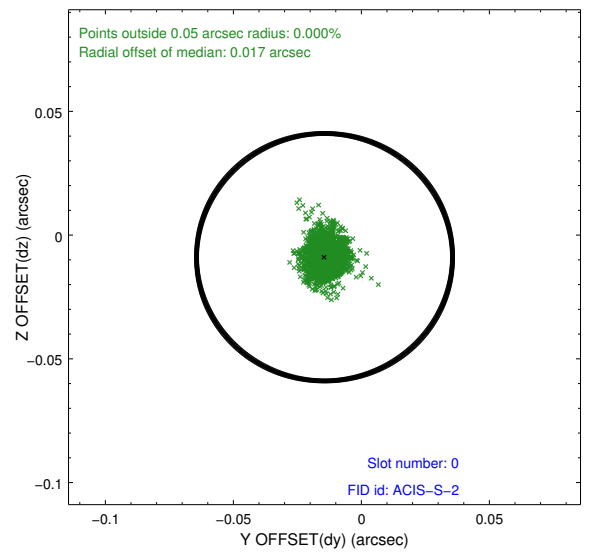
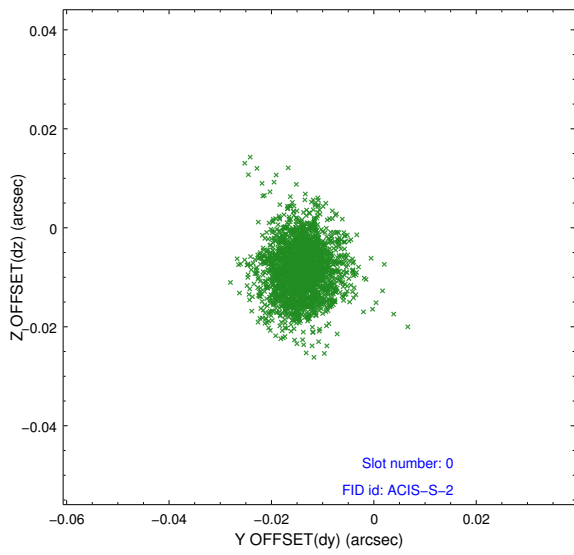


3.4.5 Slot 7

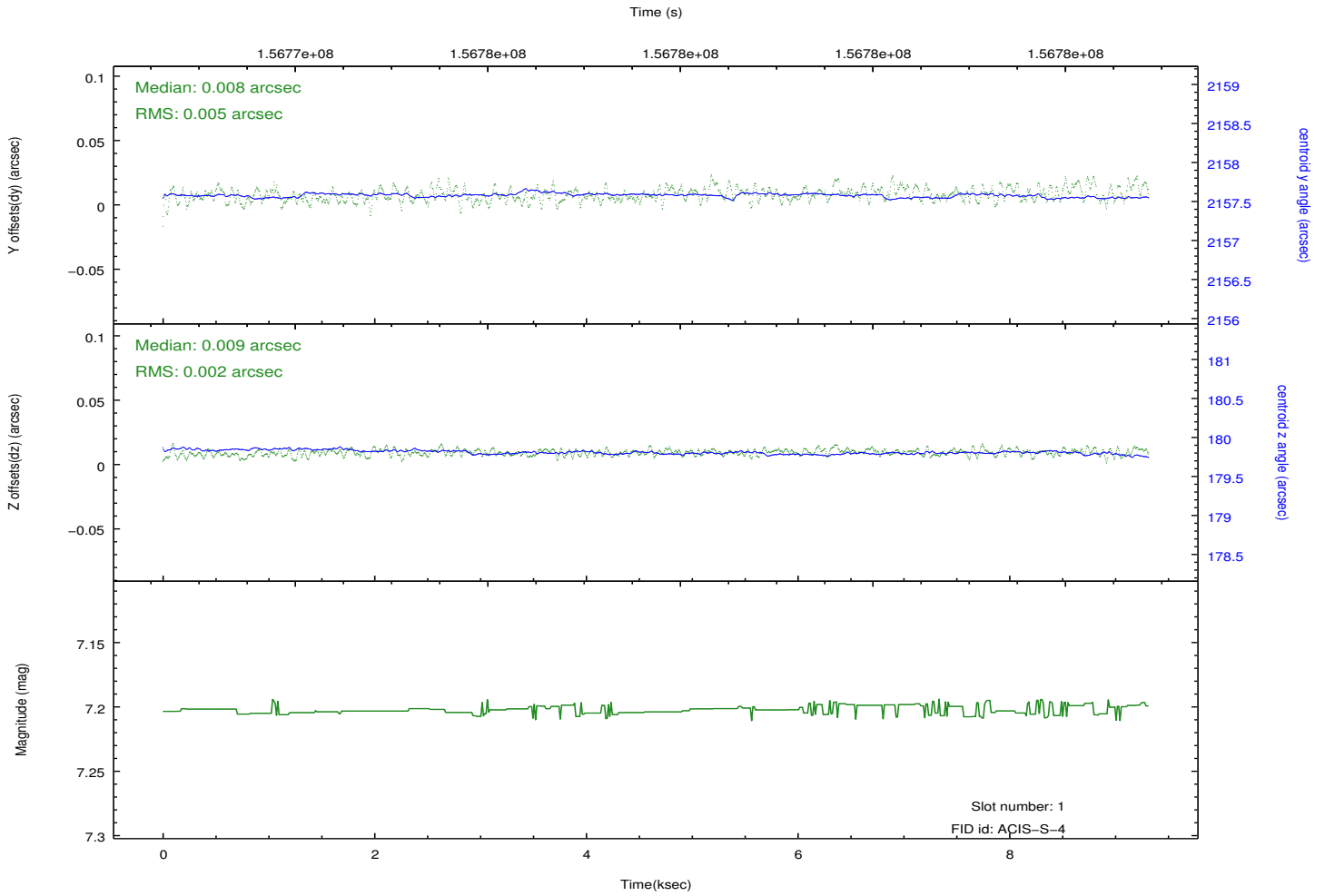
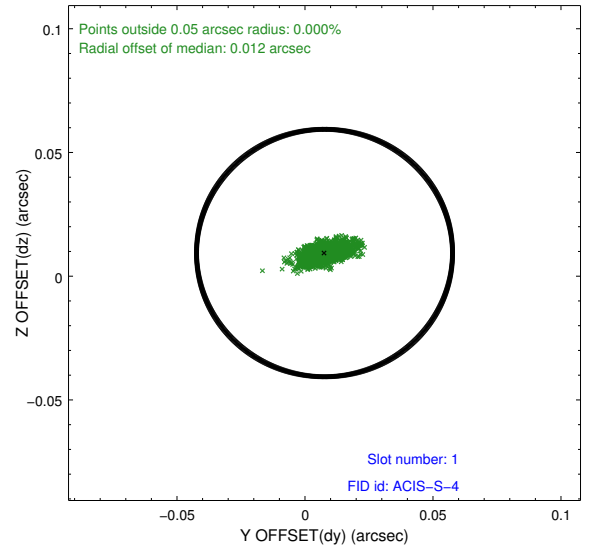
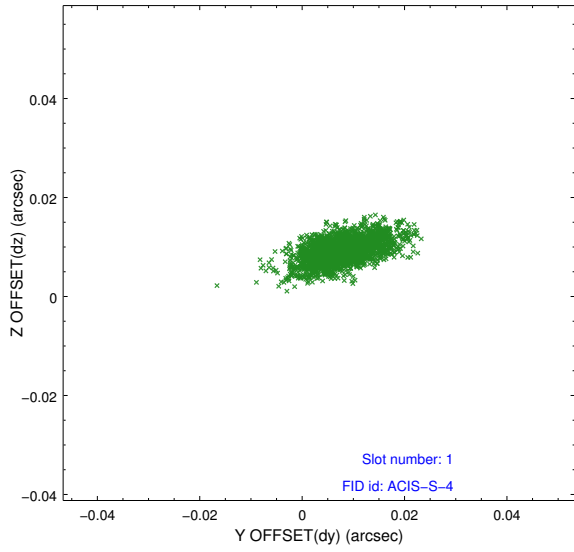


3.5 FID Slots

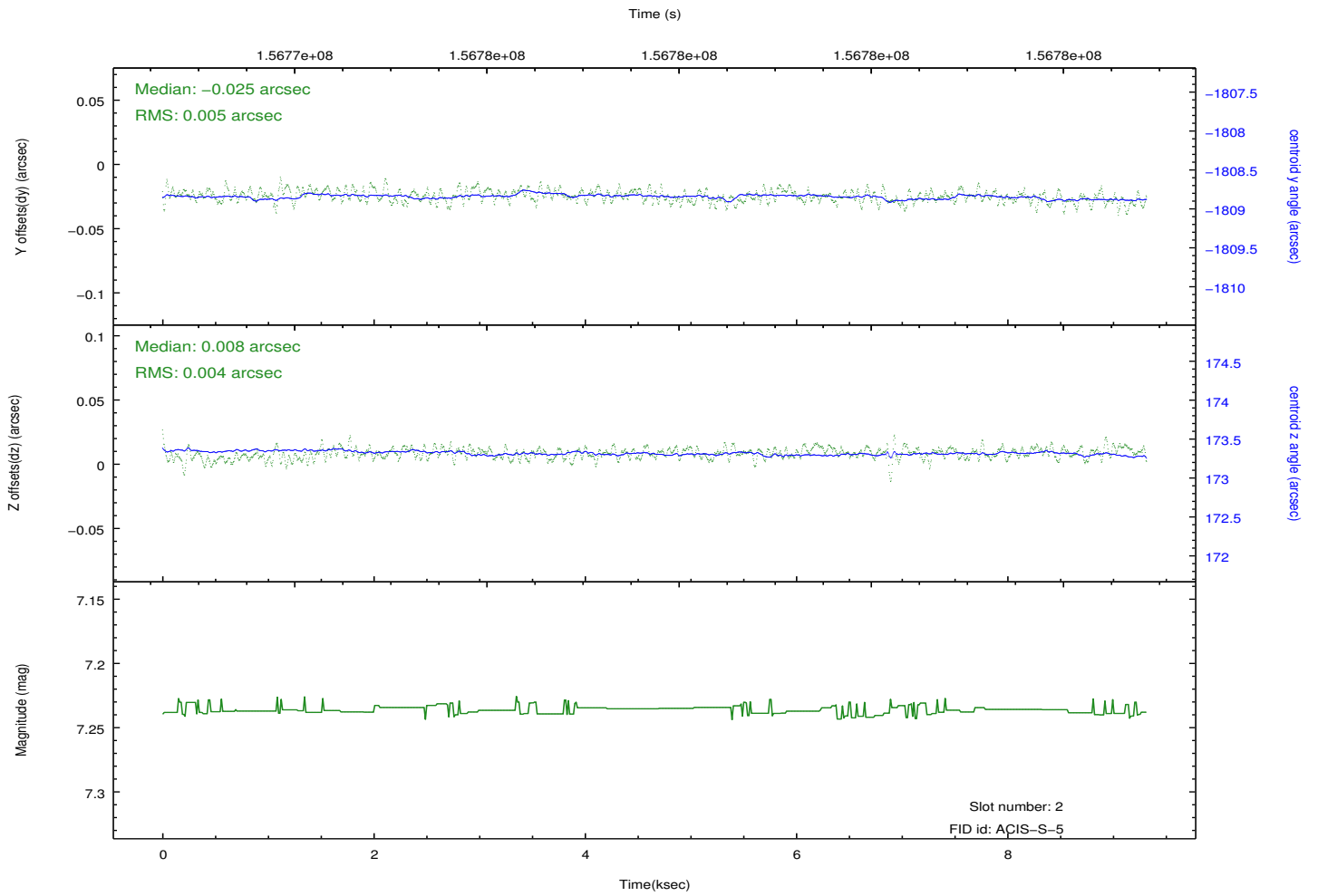
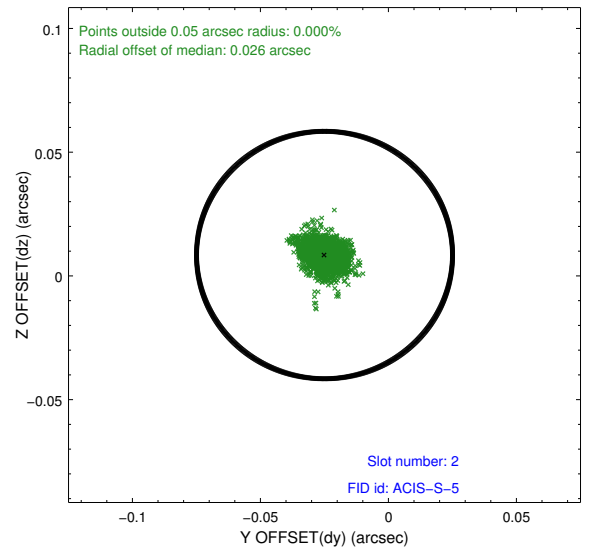
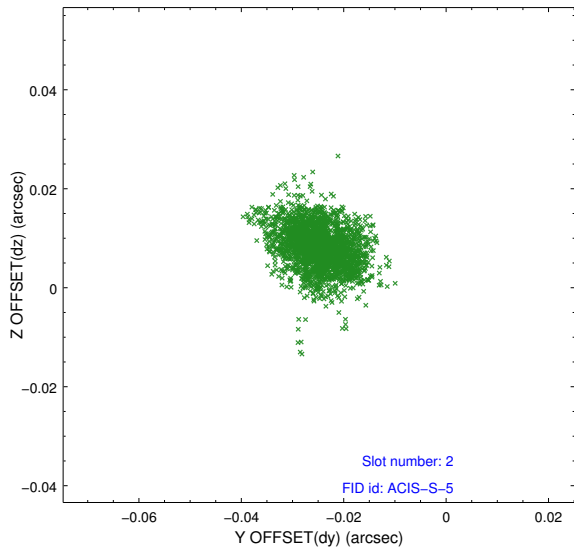
3.5.1 Slot 0



3.5.2 Slot 1



3.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2013.03.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.837

A.2 Comments

OBI 1 was interrupted by safing of the science instruments due to high solar radiation environment. The observation was interrupted at 2002-11-10 03:20 GMT.

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Charge time for this ObsId remains at previous value of 19.837 ks, although with this reprocessing the charge time would have been 19.837 ks.