

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 6612 - L2 Version 2
Chandra X-Ray Center

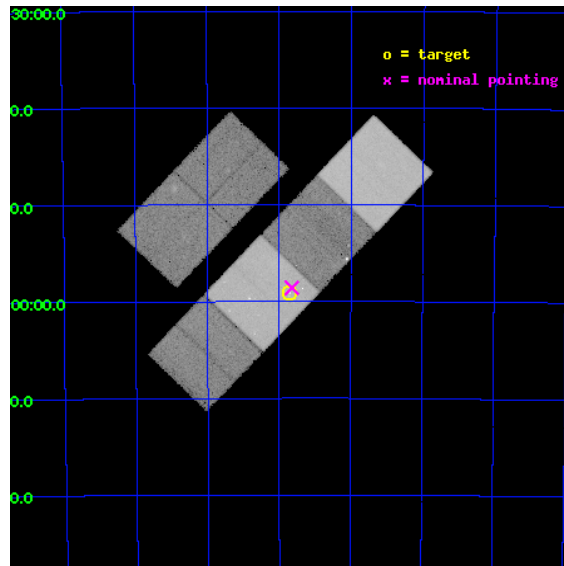
L2 Processing Date : Mar 25 2012

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1 Front

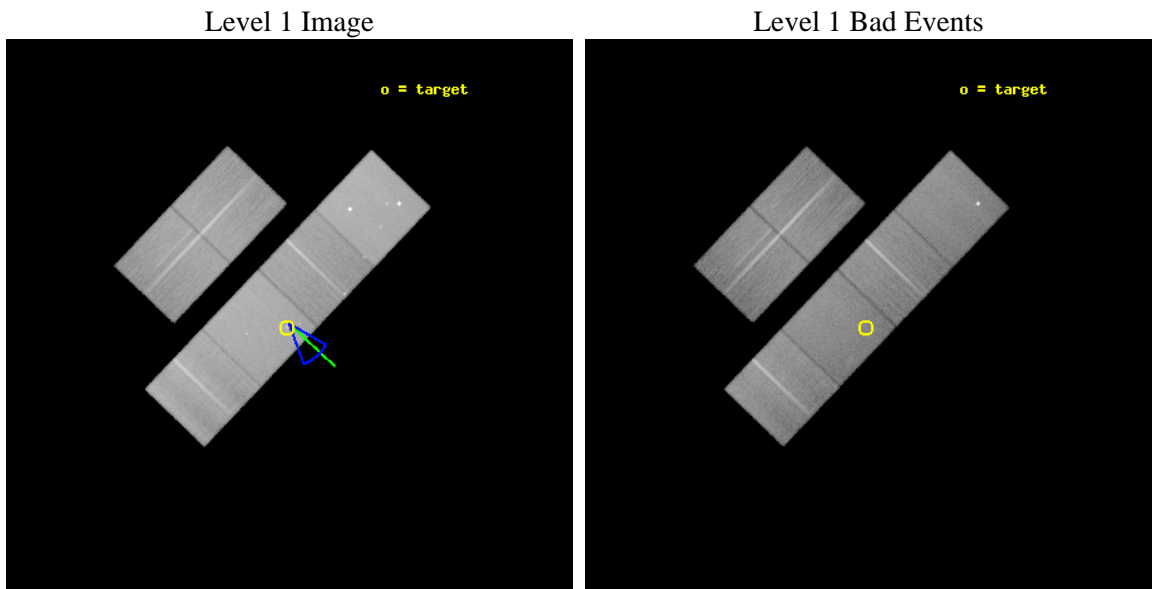
seq_num	400517	Sequence number
obs_id	6612	Observation id
title	Millisecond Pulsars and Core Collapse in the Globular Cluster NGC 6752	Proposal title
observer	Prof. Craig Heinke	Principal investigator
object	NGC 6752	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	287.716667	Observer's specified target RA [deg]
dec_targ	-59.984611	Observer's specified target Dec [deg]
ra_nom	287.70593366077	Nominal RA [deg]
dec_nom	-59.976548235937	Nominal Dec [deg]
roll_nom	133.72974324349	Nominal Roll [deg]
revision	2	Processing version of data
ontime	38453.821662694	Sum of GTIs [s]
livetime	37966.89621869	Livetime [s]
ontime2	38450.621742398	Sum of GTIs [s]
ontime3	38453.698542684	Sum of GTIs [s]
ontime5	38453.780622691	Sum of GTIs [s]
ontime6	38453.739582688	Sum of GTIs [s]
ontime7	38453.821662694	Sum of GTIs [s]
ontime8	38453.657502711	Sum of GTIs [s]
l2events	543574	Number of level 2 events



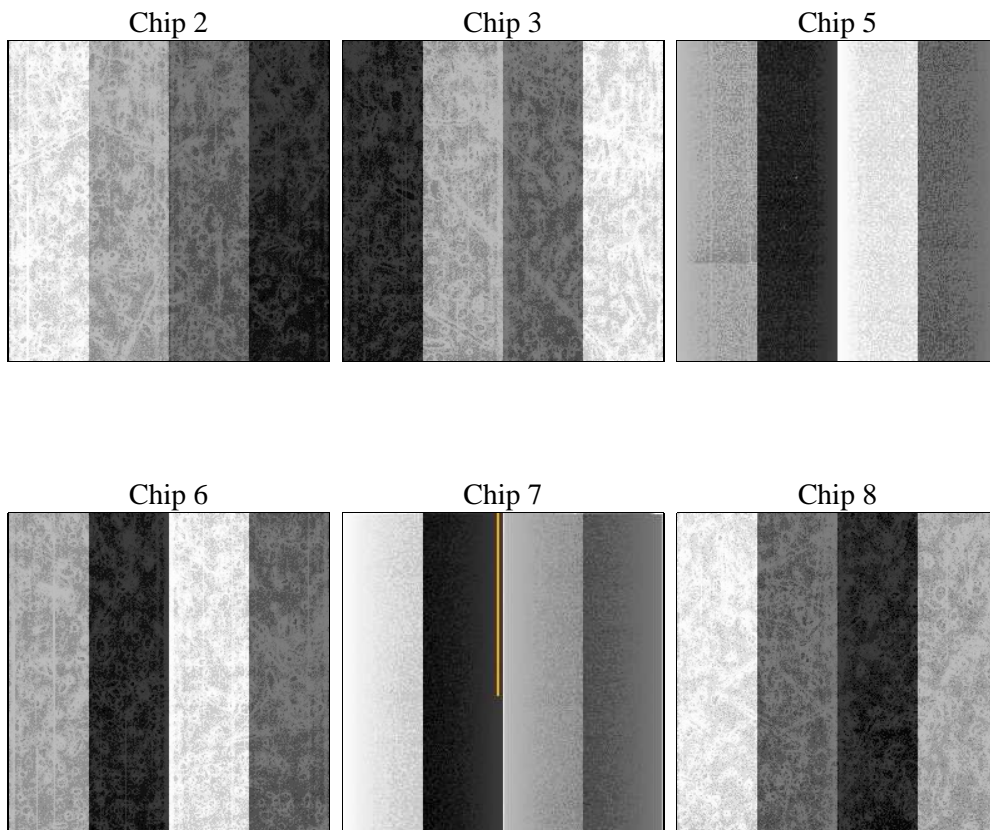
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	38500.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	38453.821662694	Sum of GTIs [s]
caldbver	4.4.8	 	ontime2	38450.621742398	Sum of GTIs [s]
date	2012-03-25T16:43:46	Date and time of file creation	ontime3	38453.698542684	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	38453.780622691	Sum of GTIs [s]
			ontime6	38453.739582688	Sum of GTIs [s]
			ontime7	38453.821662694	Sum of GTIs [s]
			ontime8	38453.657502711	Sum of GTIs [s]
			l1events	2348303	Number of level 1 events

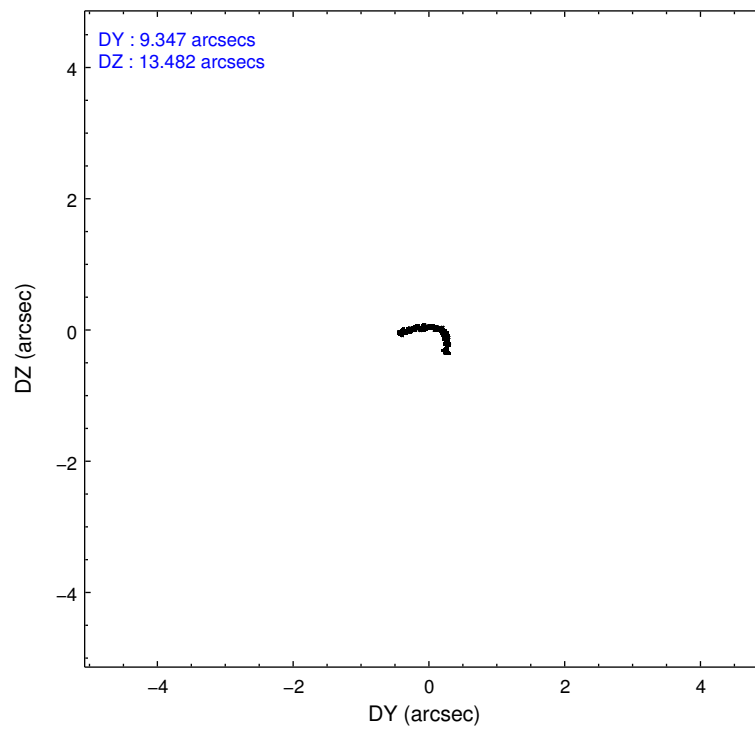
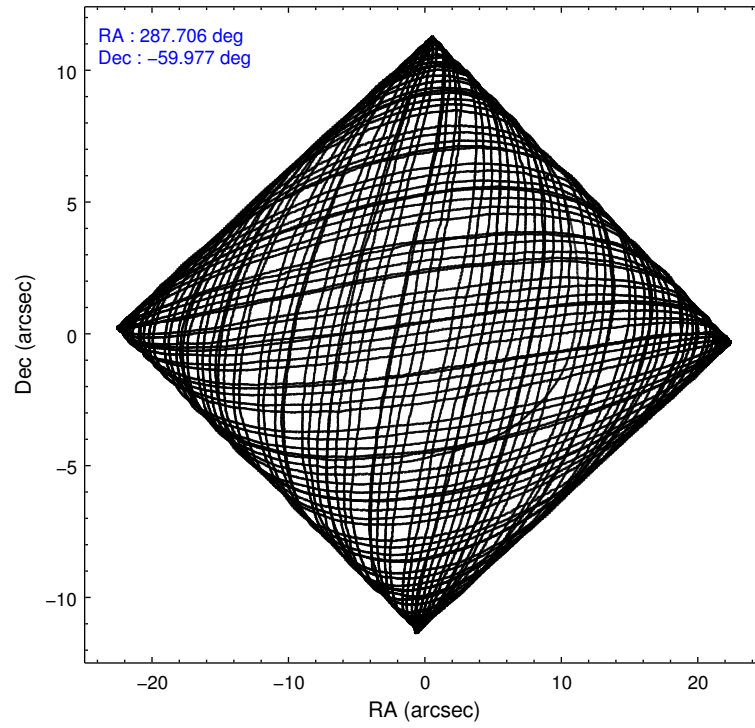
2.1.4 Events

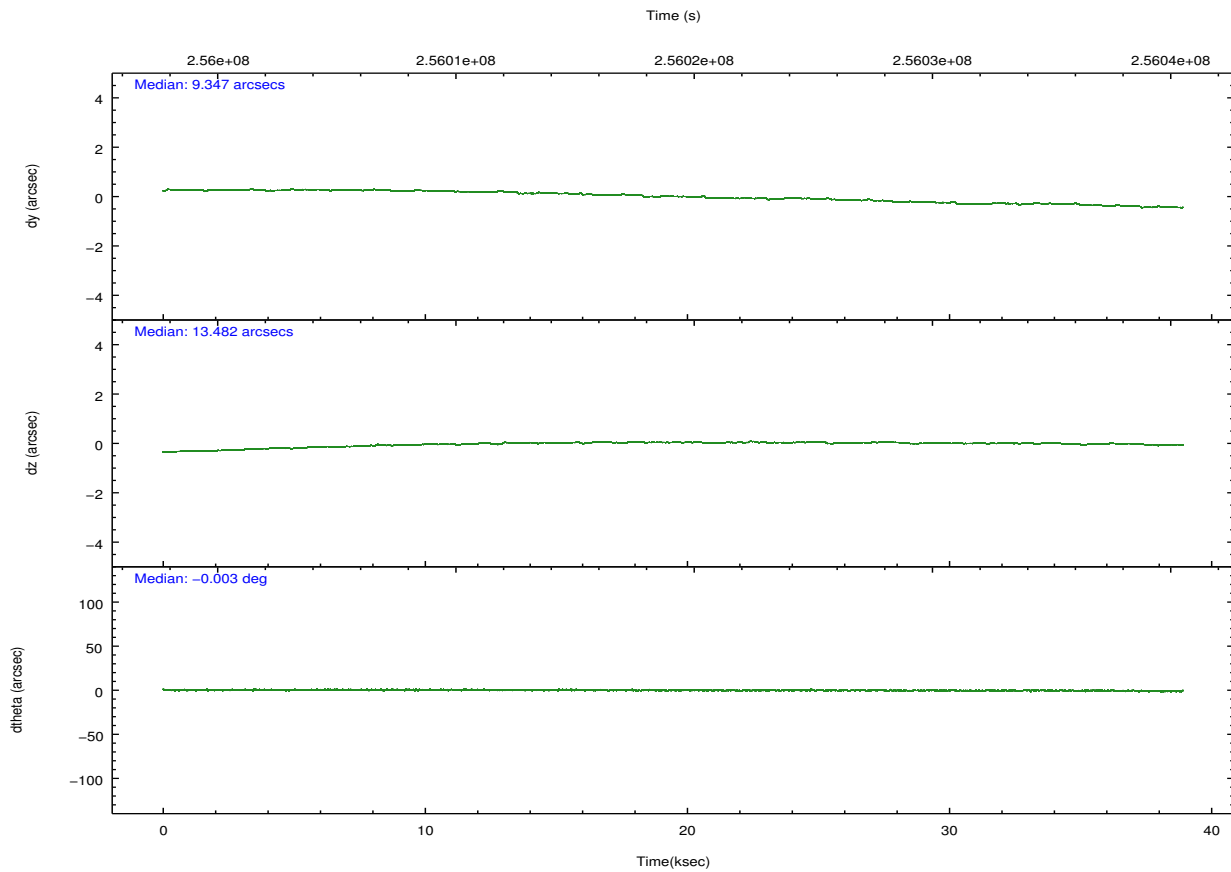
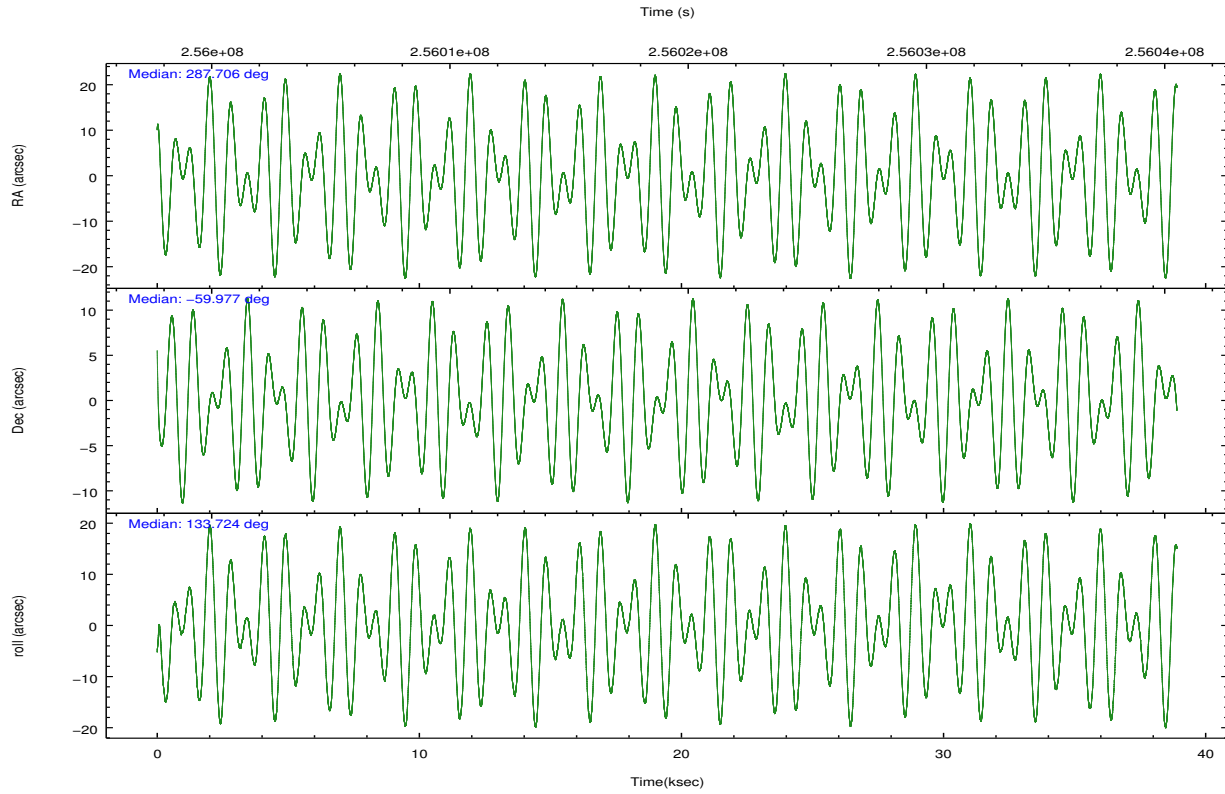
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	336220	315756	505444	326808	453775	410300	grade 0 events	17460	16833	28351	17201	18953	28891
rejected events	297272	277553	269775	285807	261035	319057		5%	5%	5%	5%	4%	7%
rejected %	88%	87%	53%	87%	57%	77%	grade 1 events	215	198	5381	171	468	298
								0%	0%	1%	0%	0%	0%
							grade 2 events	8149	7490	70150	8314	39425	20032
								2%	2%	13%	2%	8%	4%
							grade 3 events	3515	3670	8885	3884	16851	9604
								1%	1%	1%	1%	3%	2%
							grade 4 events	3542	3655	8727	3731	16980	8860
								1%	1%	1%	1%	3%	2%
							grade 5 events	12874	14805	35981	15170	42652	20181
								3%	4%	7%	4%	9%	4%
							grade 6 events	6285	6557	119576	7873	100551	23859
								1%	2%	23%	2%	22%	5%
							grade 7 events	284180	262548	228393	270464	217895	298575
								84%	83%	45%	82%	48%	72%

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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	287.758417	287.7059336607721	Subarray requested	NONE	NONE
[deg] Pointing Dec	-59.983816	-59.97654823593655	Alternating exposures requested	N	N
[deg] Pointing Roll	133.618562	133.7297432434881	[s] Primary exposure time	0.000000	3.2
[deg] Roll angle	140.000000	140.000000			
[deg] Roll tolerance	20.000000	20.000000			
Roll constraint allows 180D rotation	N	N			
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-184.858523	-184.8524609706912			
[mm] SIM translation stage offset	-5.274	-5.280061612316615			
[s] Observation start time (MET)	256000068.184000	255998993.2925			
Observation start date	2006-02-10T23:06:43	2006-02-10T22:49:53			
[s] Observation end time (MET)	256038568.184000	256039264.51937			
Observation end date	2006-02-11T09:48:23	2006-02-11T10:01:04			
Read mode	TIMED	TIMED			

2.3 Aspect



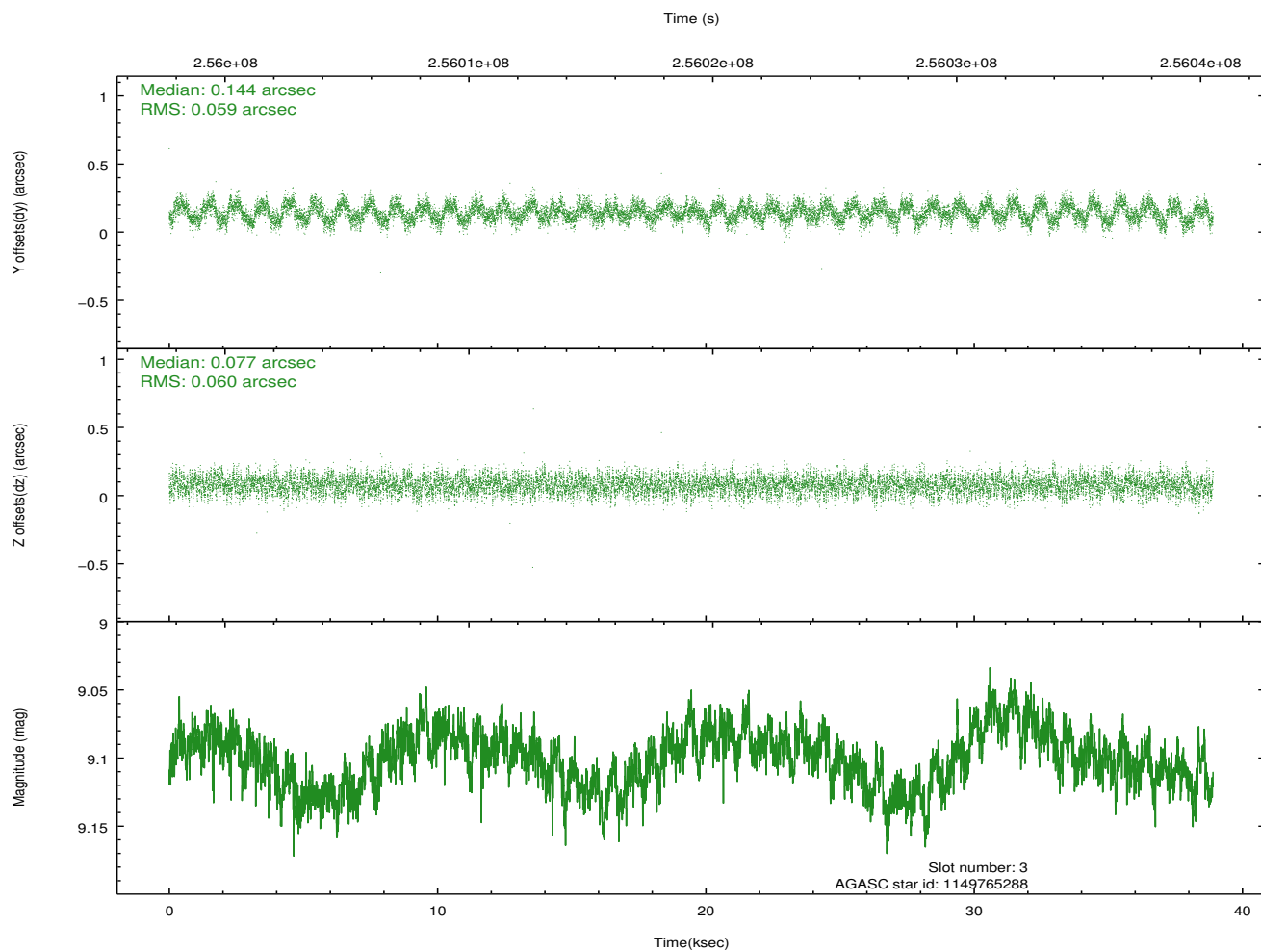
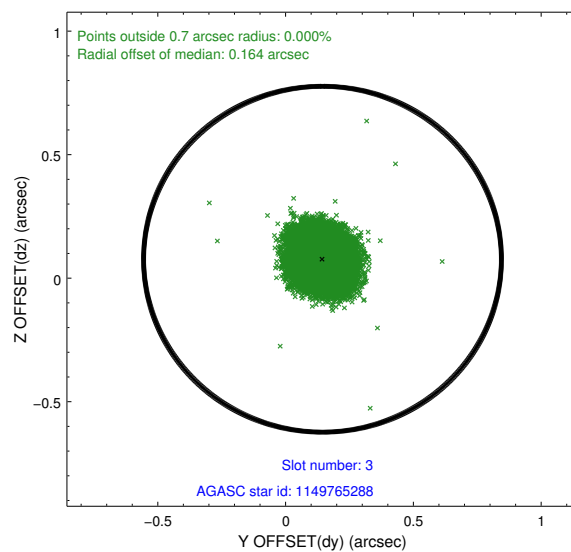
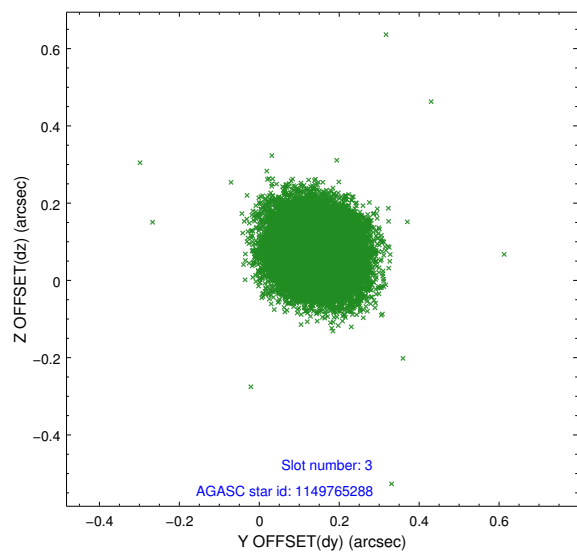


Slot Statistics

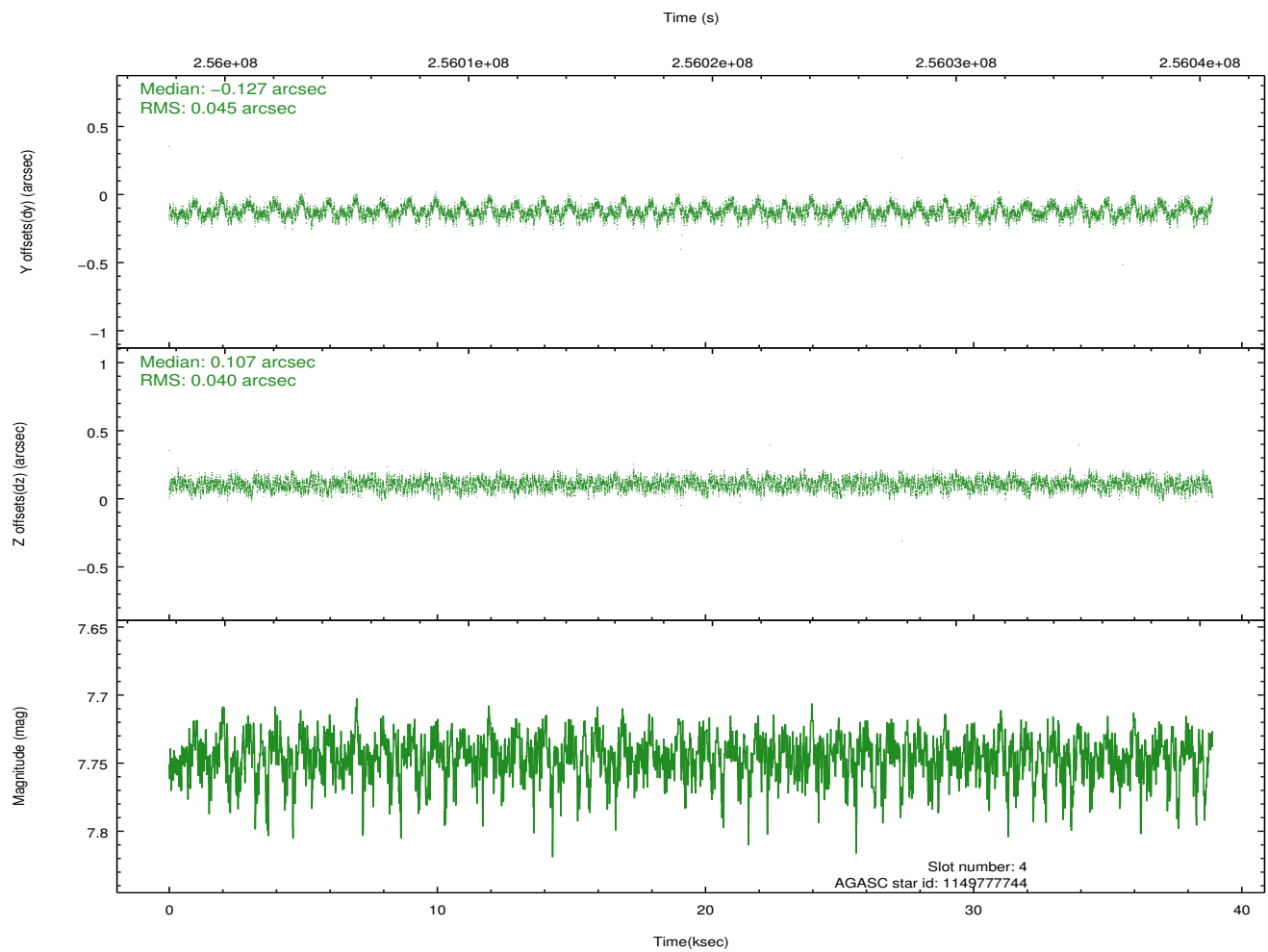
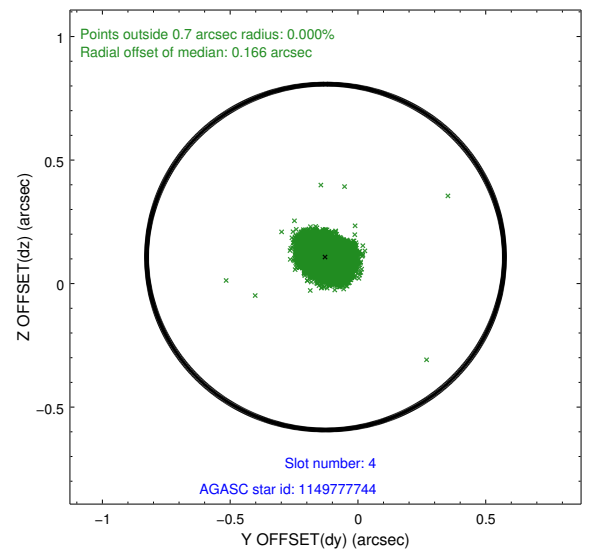
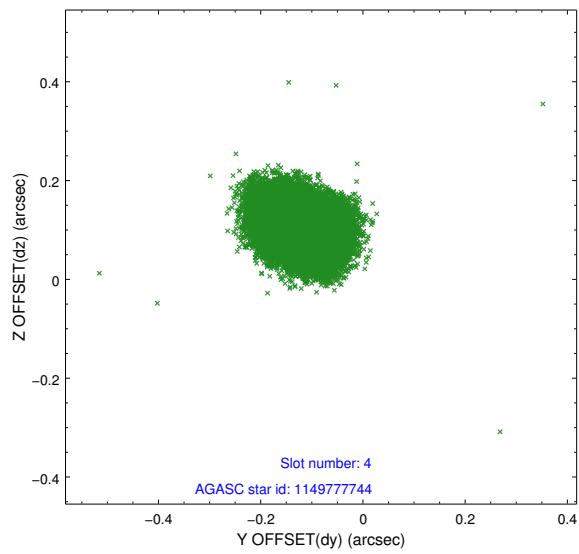
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	9490	-0.039	-0.167	0.010	0.016	0.000000	0.000000	-761.85	-1843.80
1	FID	ACIS-S-4	7.18	9489	0.165	0.064	0.015	0.025	0.000000	0.000000	2151.65	64.83
2	FID	ACIS-S-5	7.23	9490	-0.157	0.112	0.011	0.017	0.000000	0.000000	-1814.75	58.63
3	GUIDE	1149765288	9.10	18969	0.144	0.077	0.091	0.139	288.533709	-59.930458	-831.06	-1139.20
4	GUIDE	1149777744	7.75	18979	-0.127	0.107	0.065	0.103	287.546652	-59.548386	1401.11	-801.00
5	GUIDE	1188830928	7.81	18978	-0.065	-0.263	0.081	0.124	286.492427	-60.109249	1224.21	1970.58
6	GUIDE	1188964872	8.43	18973	0.138	-0.007	0.066	0.108	287.741028	-60.272202	-730.27	739.14
7	GUIDE	1149778360	8.13	18974	-0.094	0.091	0.063	0.103	287.205244	-59.332299	2395.70	-879.28

2.4 Star Slots

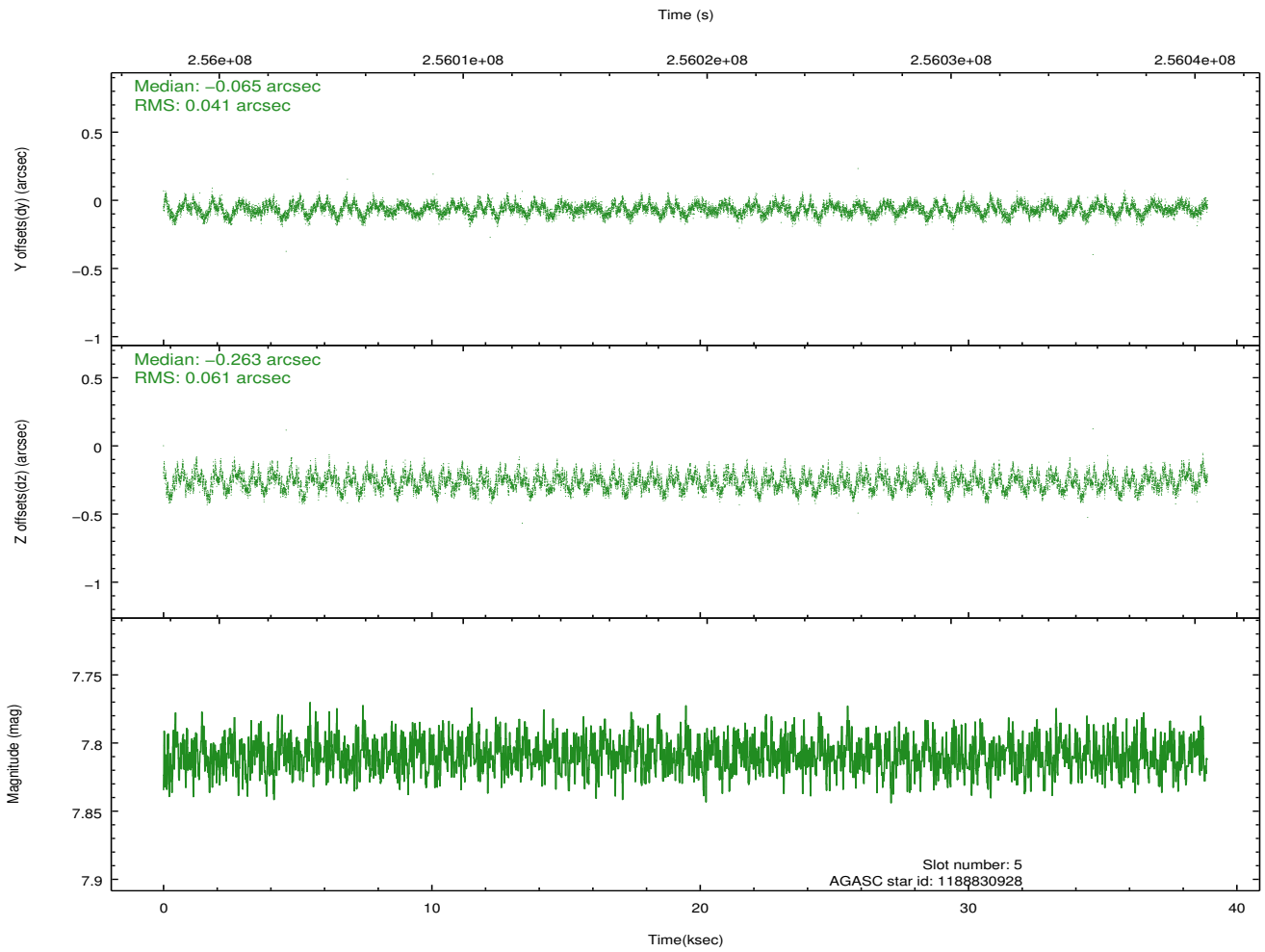
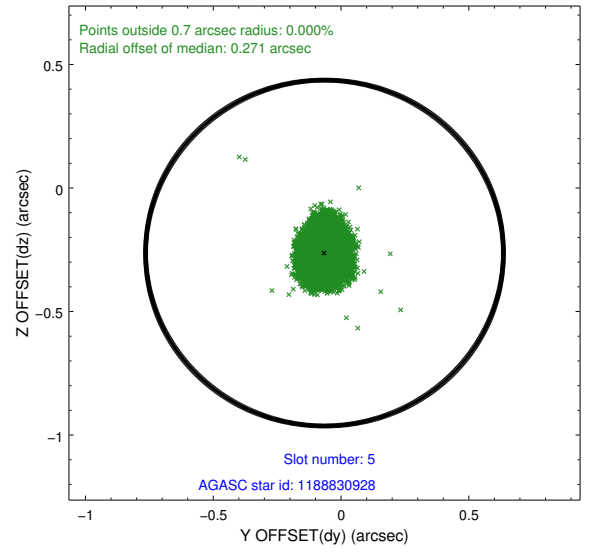
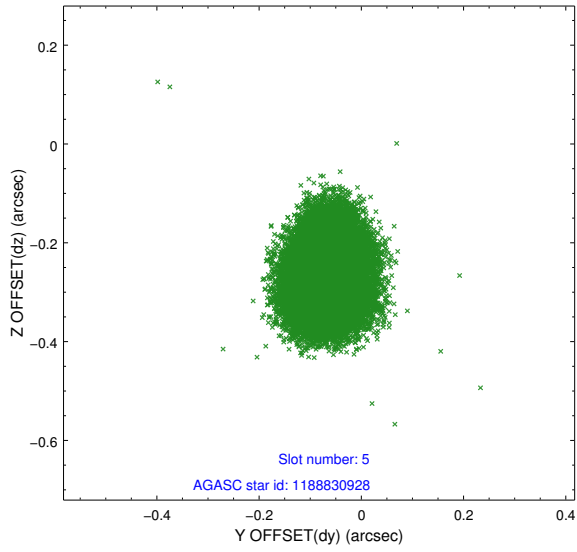
2.4.1 Slot 3



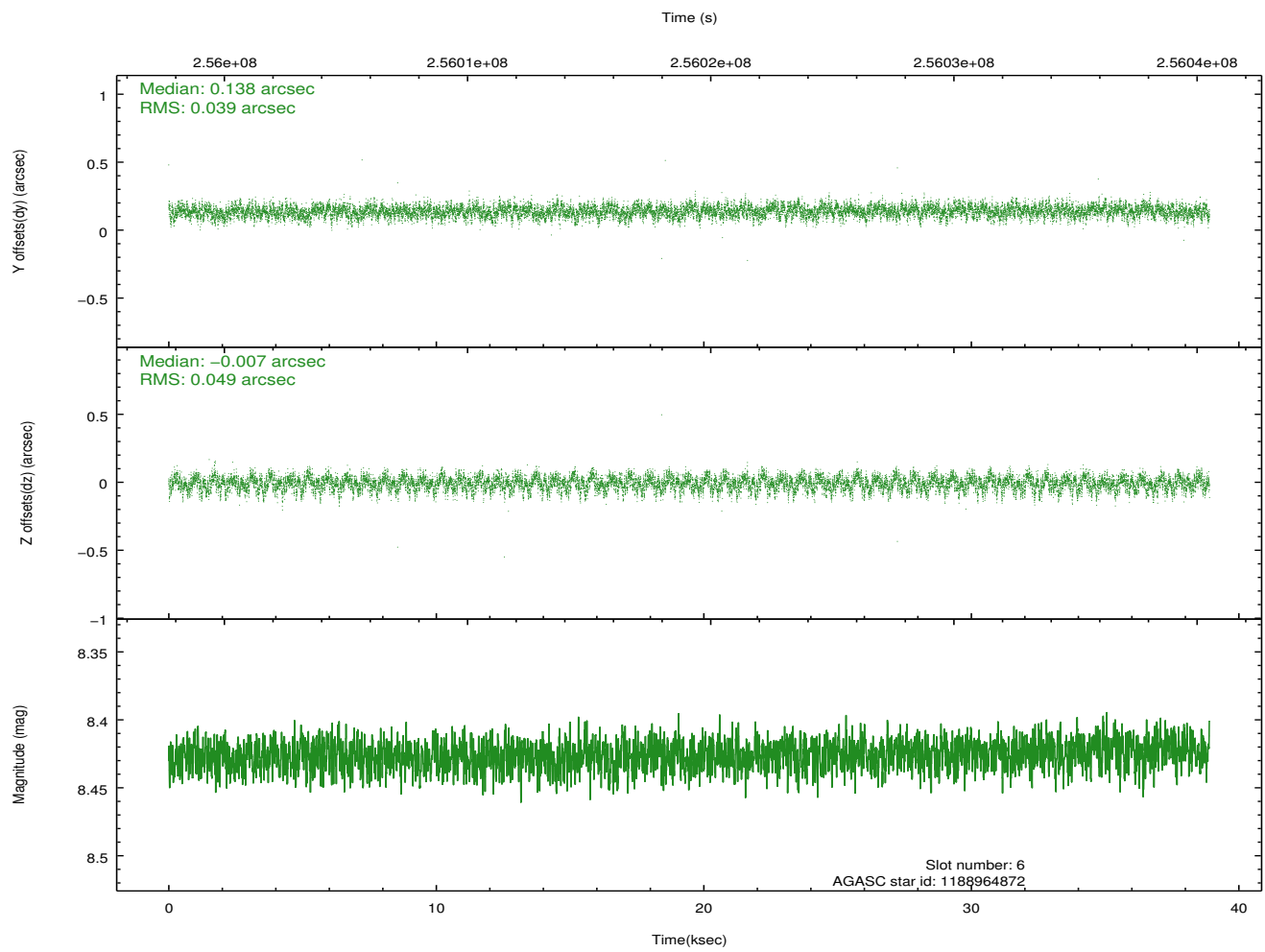
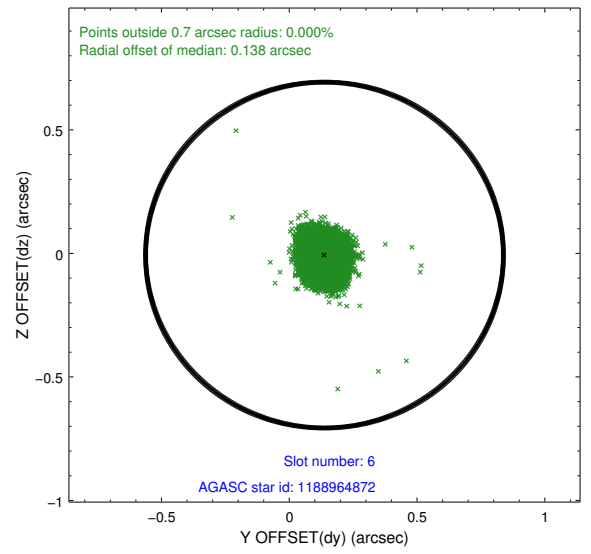
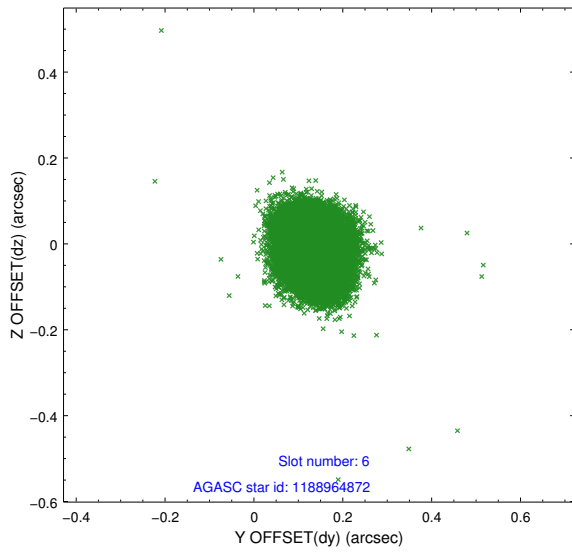
2.4.2 Slot 4



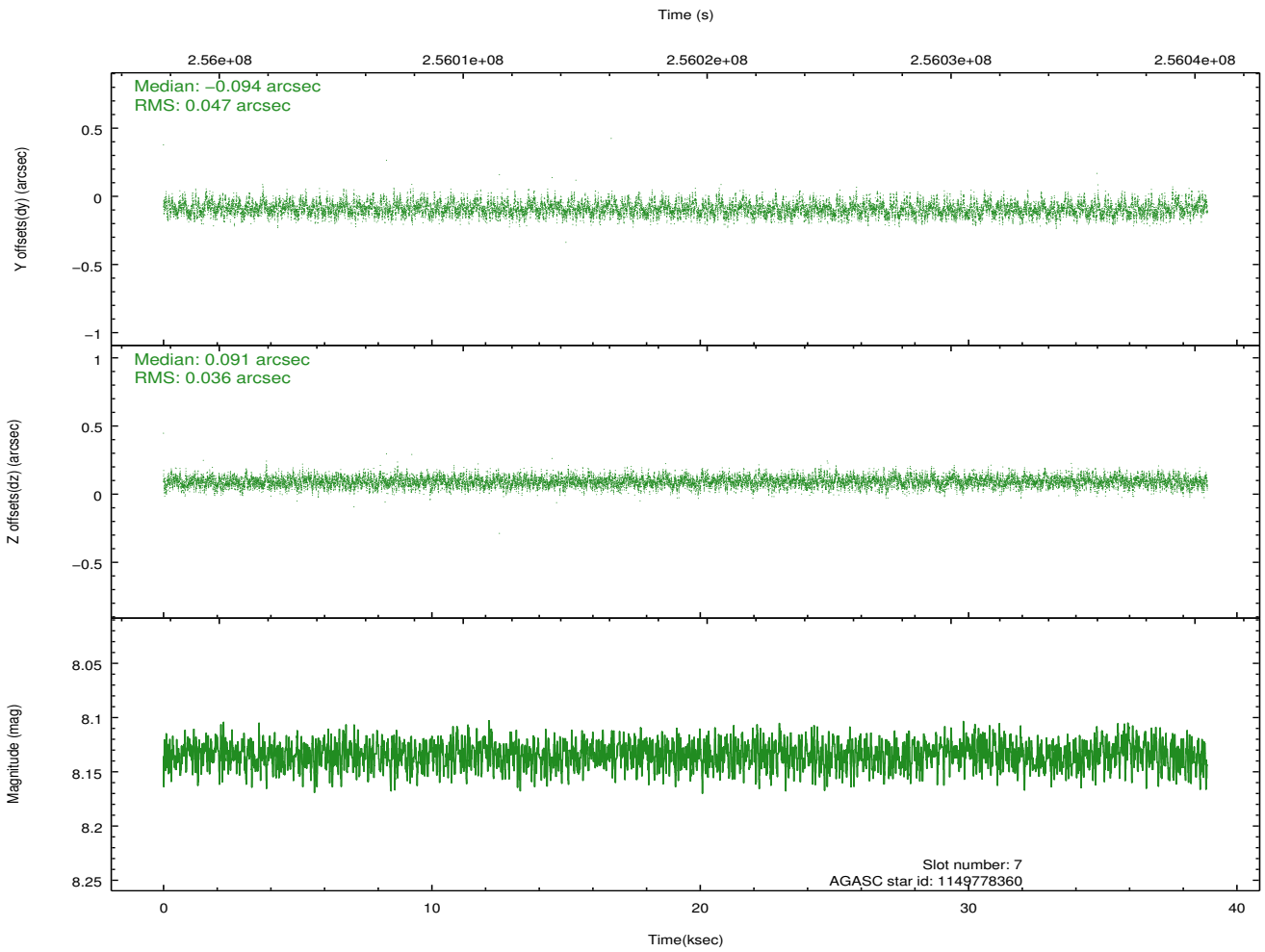
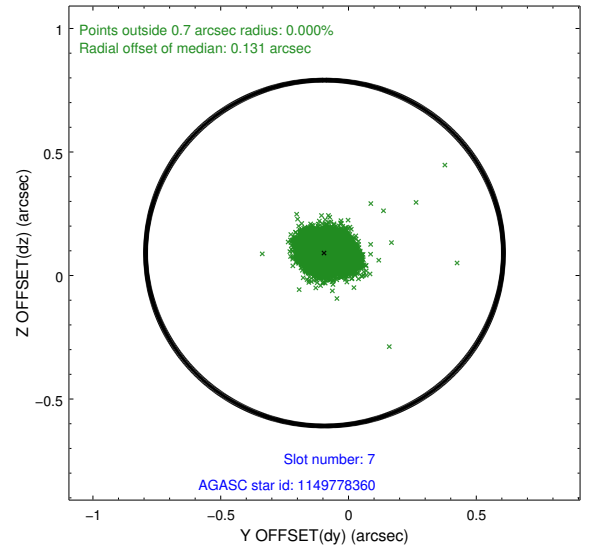
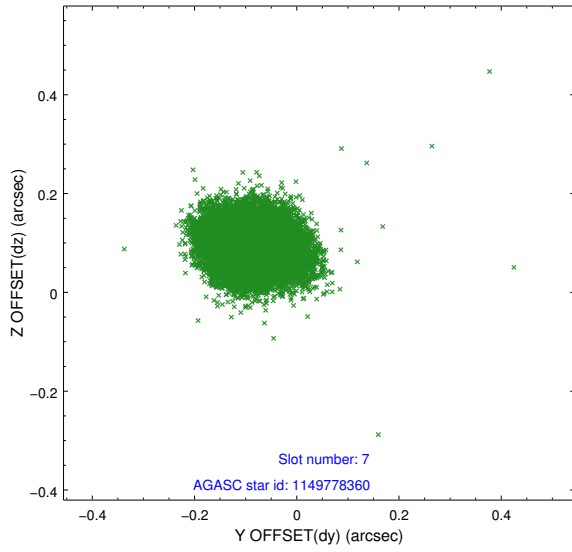
2.4.3 Slot 5



2.4.4 Slot 6

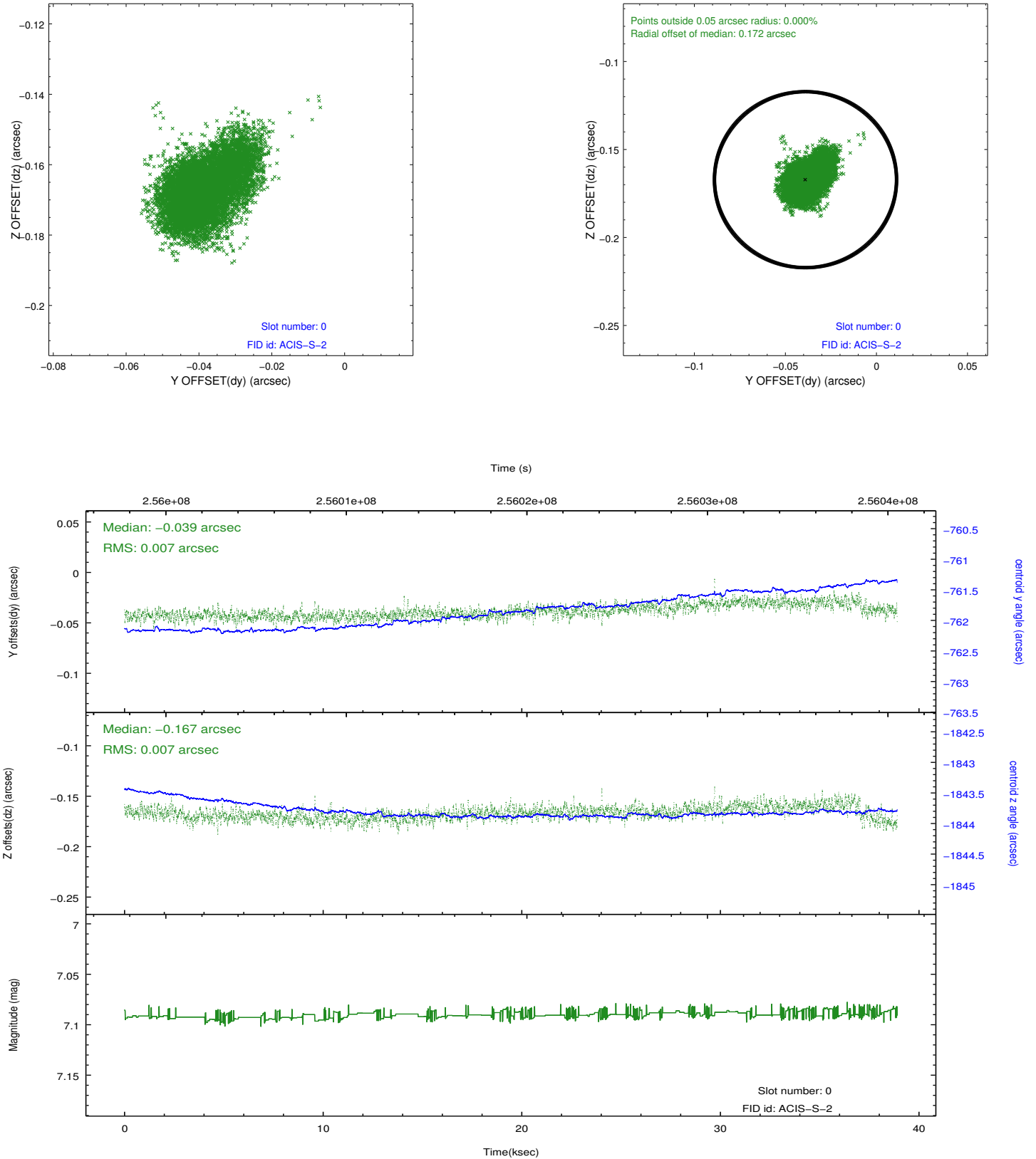


2.4.5 Slot 7

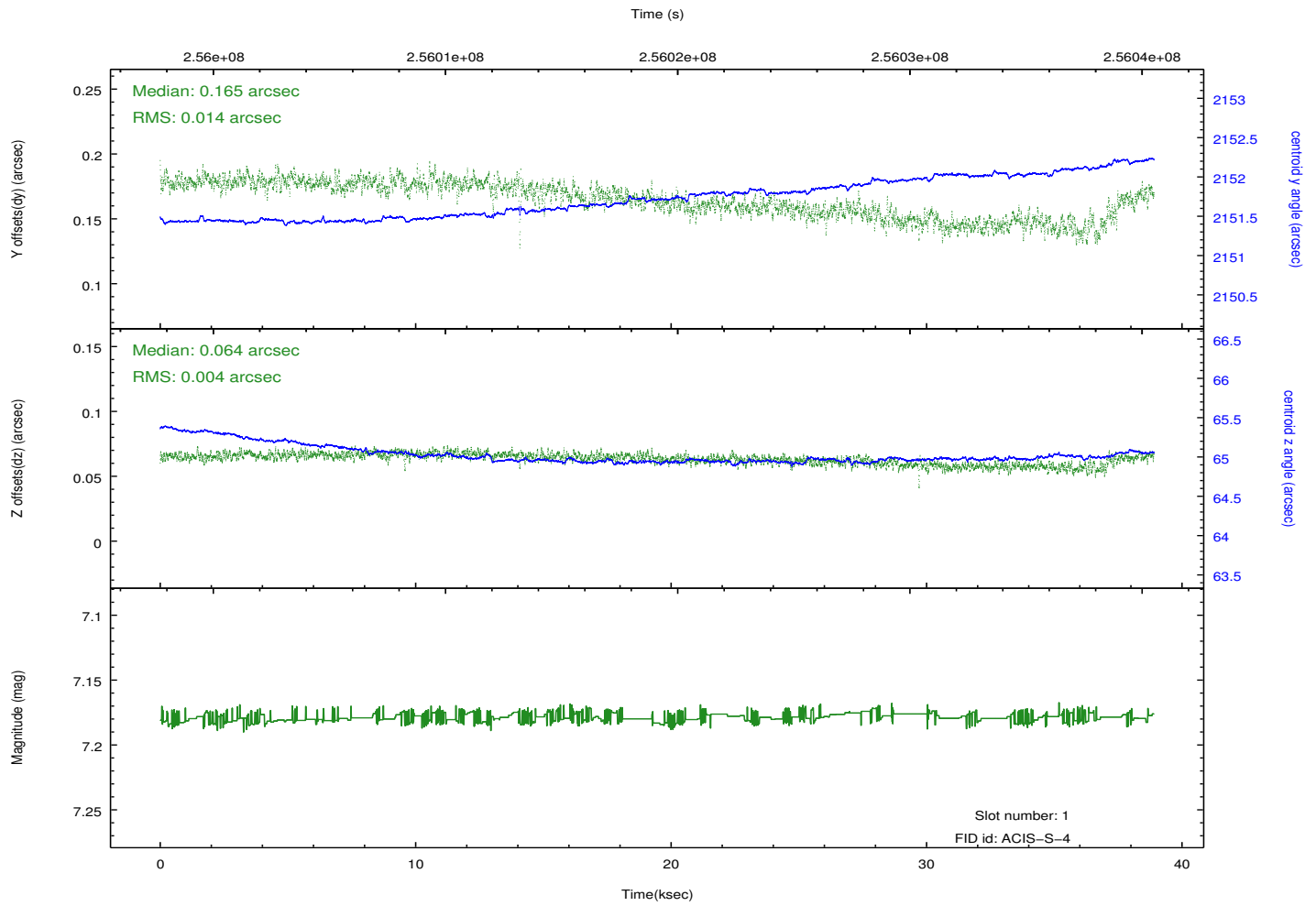
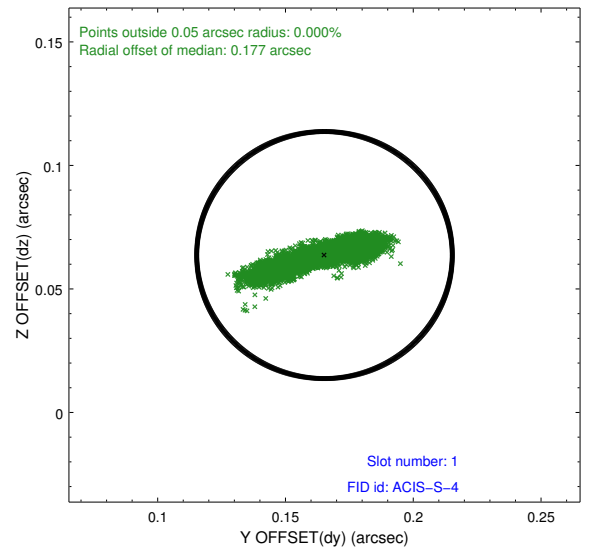
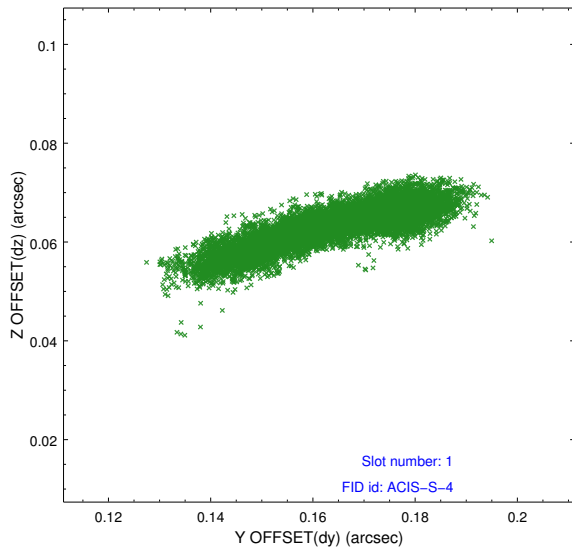


2.5 FID Slots

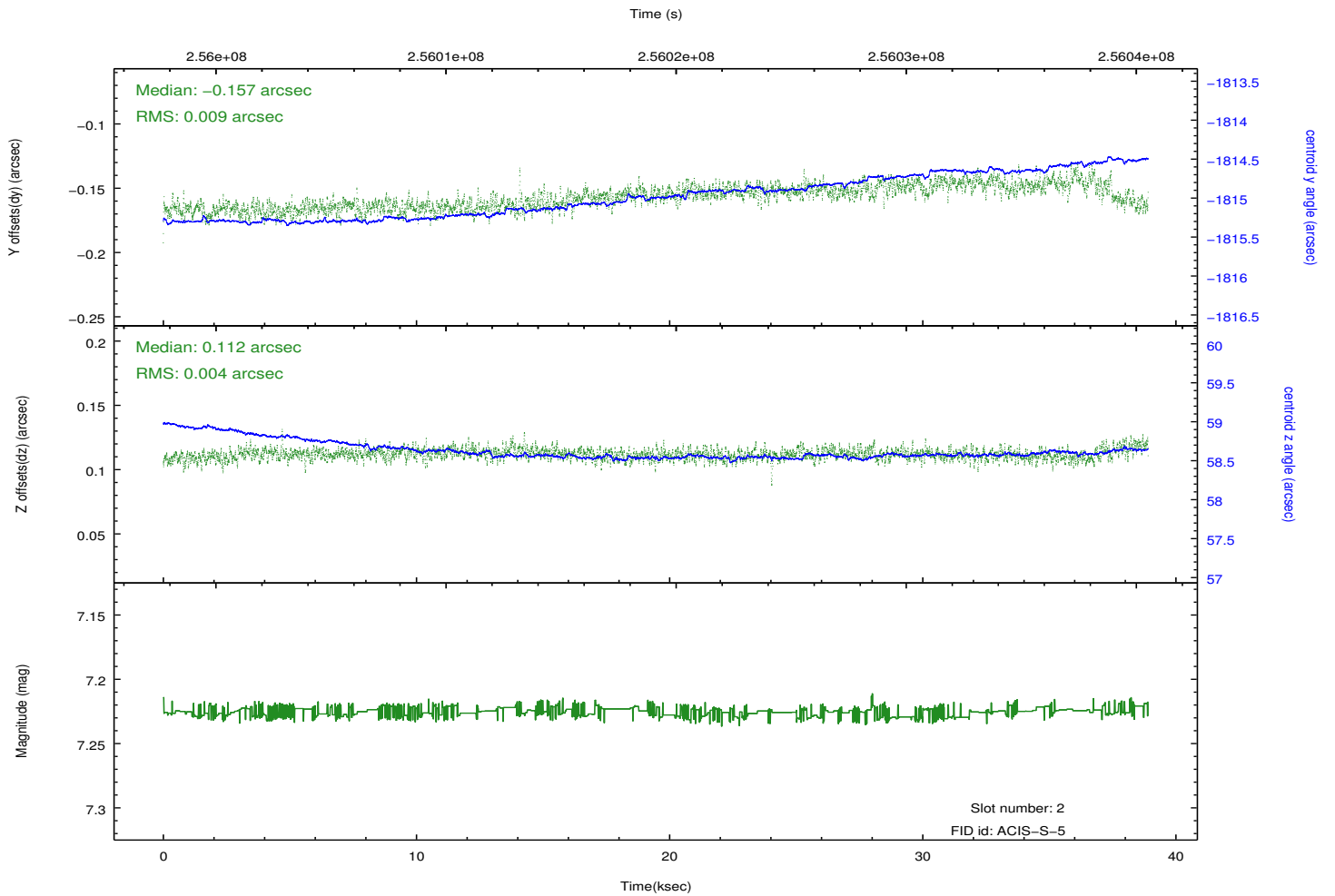
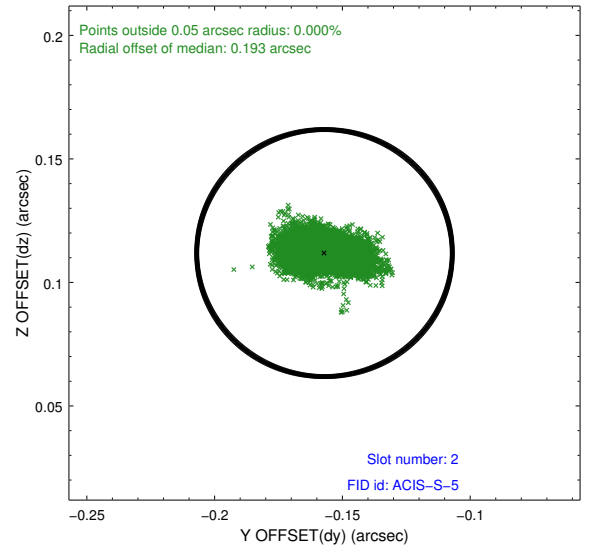
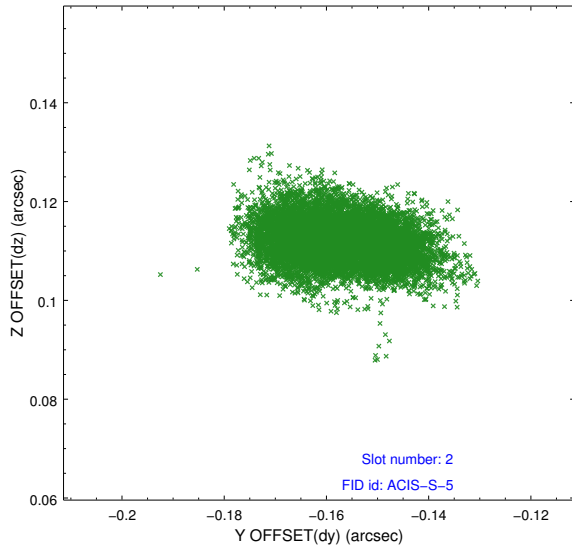
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.03.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	38.4543998

A.2 Comments

Roll constraint met.