

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 12924 - L2 Version 2
Chandra X-Ray Center

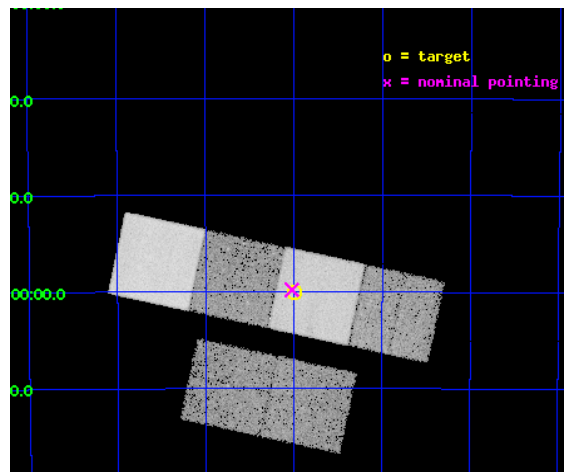
L2 Processing Date : Jul 7 2012

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

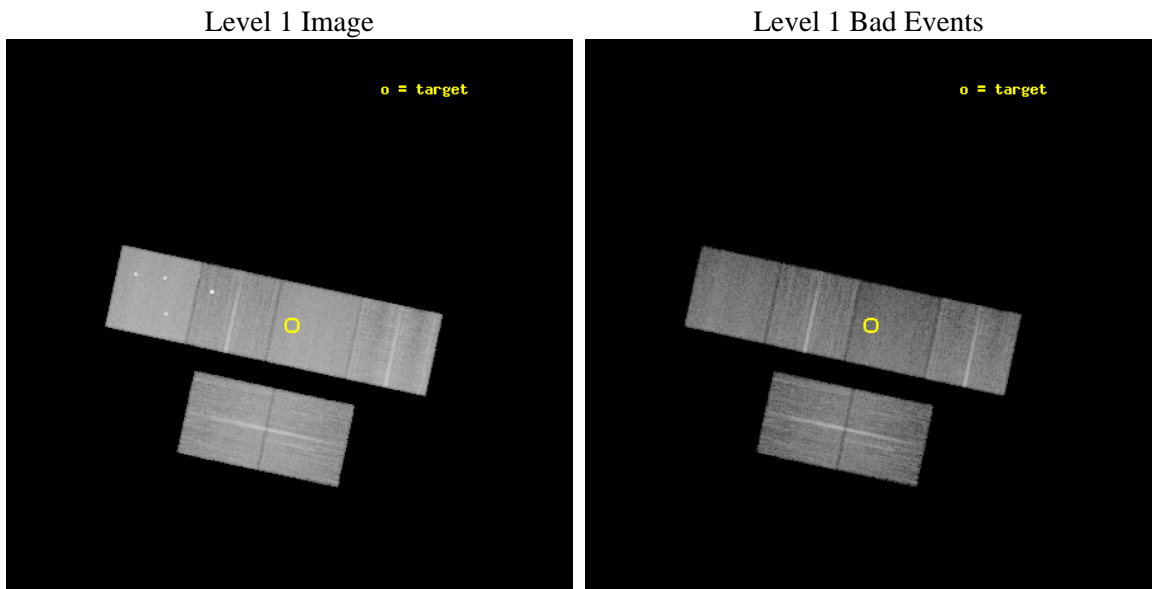
seq_num	900956	Sequence number
obs_id	12924	Observation id
title	Properties of the Warm-Hot Intergalactic Medium Using X-ray/SZ Cross-Correlation	Proposal title
observer	Dr. Massimiliano Galeazzi	Principal investigator
object	Blanco Cosmological Survey	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	79.25	Observer's specified target RA [deg]
dec_targ	-52.0	Observer's specified target Dec [deg]
ra_nom	79.255655905975	Nominal RA [deg]
dec_nom	-51.996663680422	Nominal Dec [deg]
roll_nom	12.11107881615	Nominal Roll [deg]
revision	2	Processing version of data
ontime	20047.999925375	Sum of GTIs [s]
livetime	19794.140078864	Livetime [s]
ontime2	20047.999925375	Sum of GTIs [s]
ontime3	20047.999925375	Sum of GTIs [s]
ontime5	20047.999925375	Sum of GTIs [s]
ontime6	20047.999925375	Sum of GTIs [s]
ontime7	20047.999925375	Sum of GTIs [s]
ontime8	20044.758915126	Sum of GTIs [s]
l2events	233599	Number of level 2 events



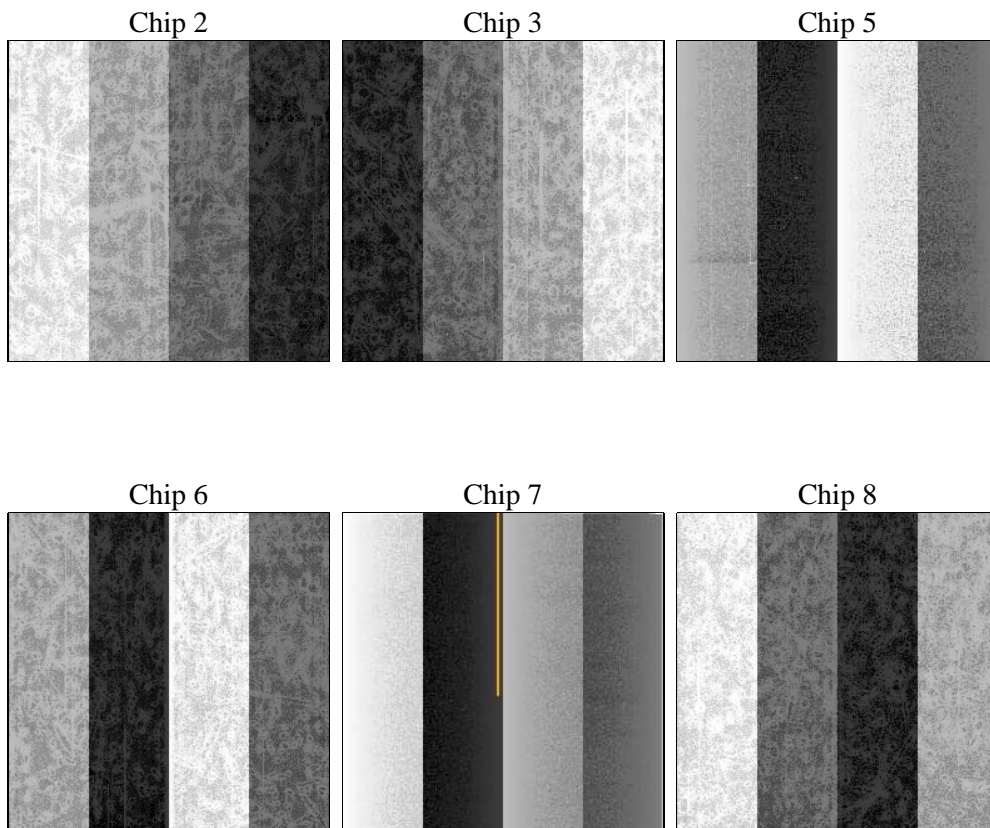
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	20047.999925375	Sum of GTIs [s]
caldbver	4.5.0	 	ontime2	20047.999925375	Sum of GTIs [s]
date	2012-07-07T17:14:51	Date and time of file creation	ontime3	20047.999925375	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	20047.999925375	Sum of GTIs [s]
			ontime6	20047.999925375	Sum of GTIs [s]
			ontime7	20047.999925375	Sum of GTIs [s]
			ontime8	20044.758915126	Sum of GTIs [s]
			l1events	1012412	Number of level 1 events

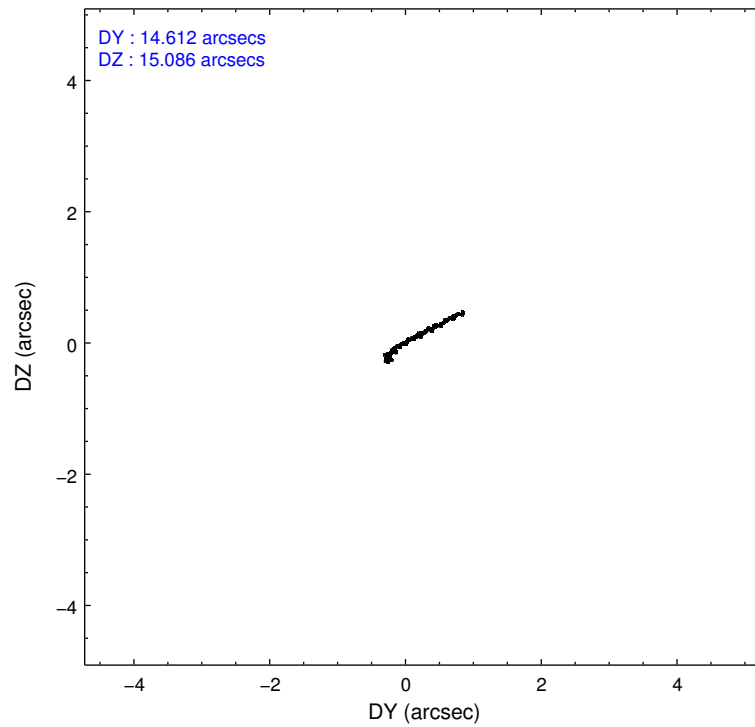
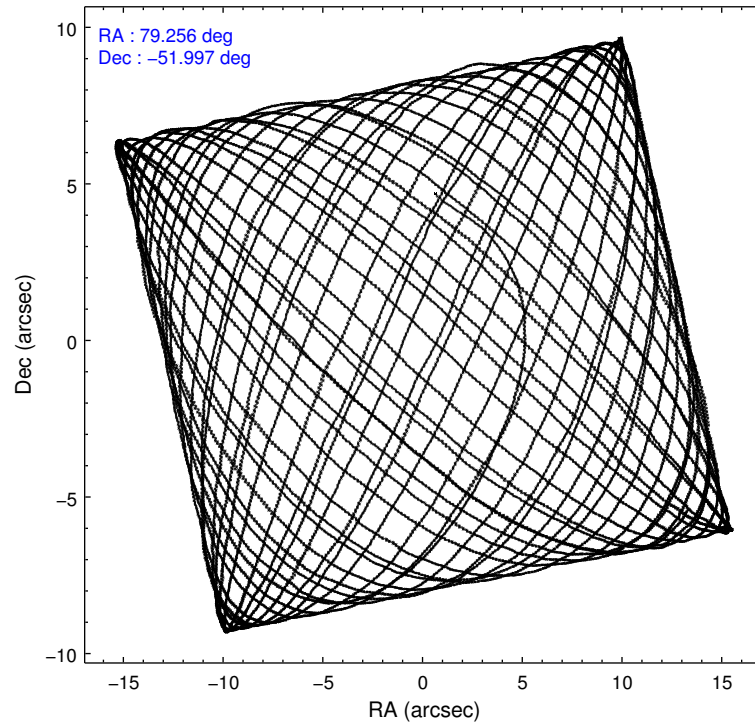
2.1.4 Events

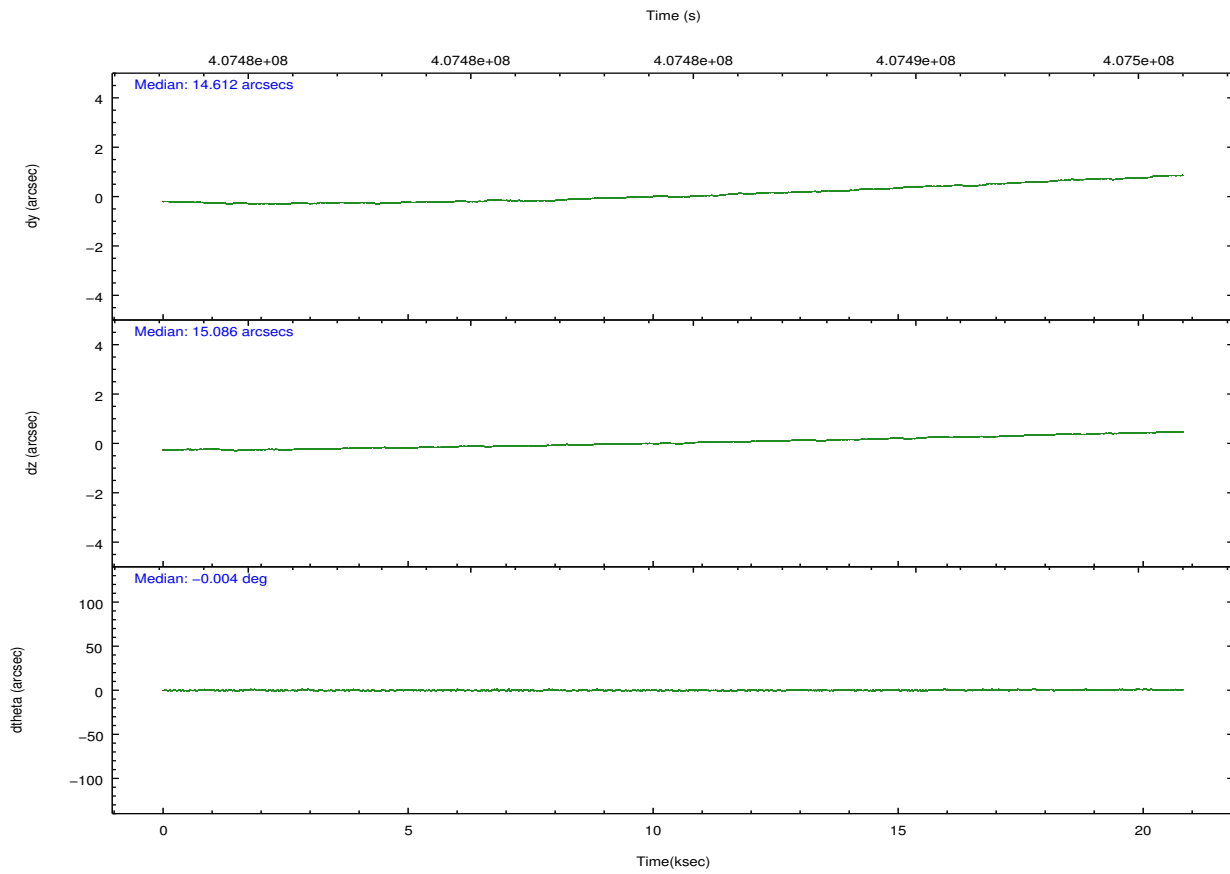
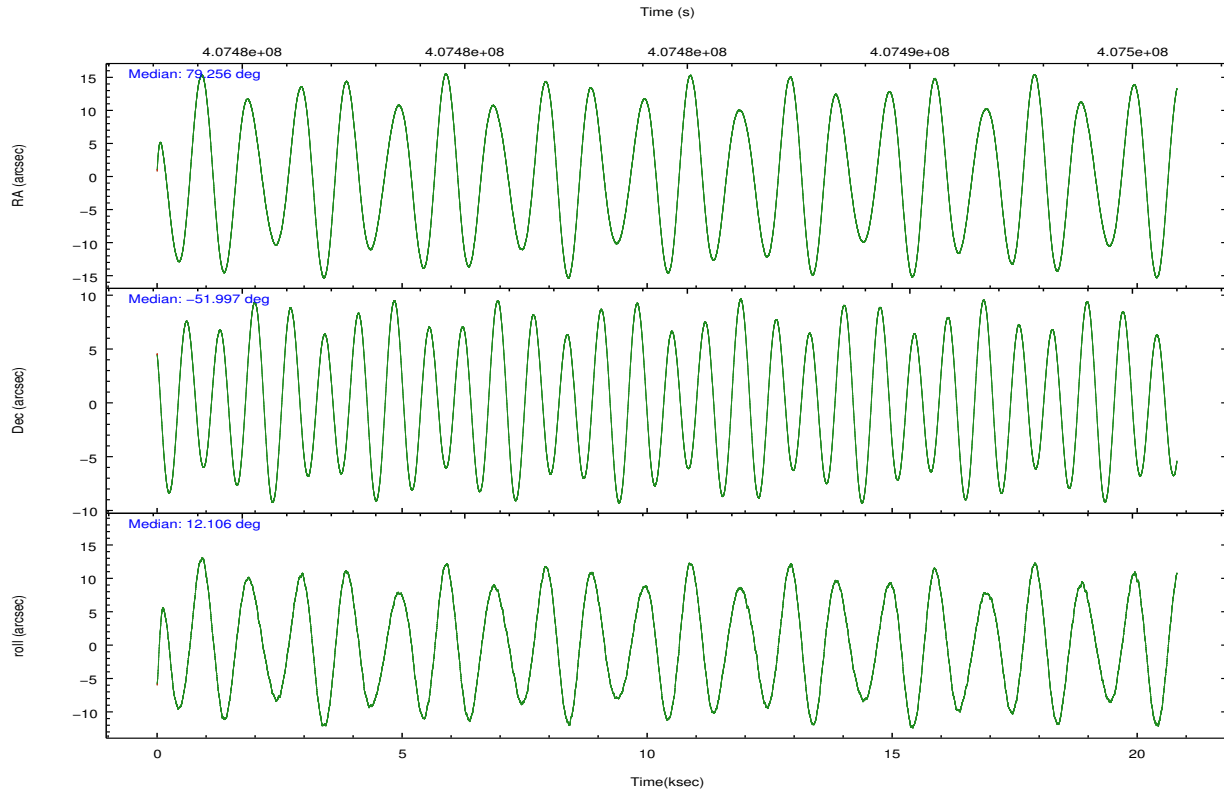
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	144885	139185	219207	149613	175907	183615	grade 0 events	5362	4999	11869	5488	7151	14590
rejected events	129562	124920	110457	127712	97005	135066		3%	3%	5%	3%	4%	7%
rejected %	89%	89%	50%	85%	55%	73%	grade 1 events	80	89	537	89	223	141
								0%	0%	0%	0%	0%	0%
							grade 2 events	3770	3143	32136	9514	16177	11416
								2%	2%	14%	6%	9%	6%
							grade 3 events	1659	1569	4161	1730	6944	5077
								1%	1%	1%	1%	3%	2%
							grade 4 events	1579	1610	3903	1679	6893	4764
								1%	1%	1%	1%	3%	2%
							grade 5 events	5774	6392	16683	6691	18278	9474
								3%	4%	7%	4%	10%	5%
							grade 6 events	2958	2949	56714	3495	41755	12715
								2%	2%	25%	2%	23%	6%
							grade 7 events	123703	118434	93204	120927	78486	125438
								85%	85%	42%	80%	44%	68%

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	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	79.223136	79.25565590597532	CCD I2 on	O1	Y
[deg] Pointing Dec	-52.015248	-51.9966636804221	CCD I3 on	Y	Y
[deg] Pointing Roll	11.928829	12.11107881615035	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	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	407474955.184000	407473639.36801	CCD S5 on	N	N
Observation start date	2010-11-30T03:28:09	2010-11-30T03:07:19	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	407494955.184000	407495587.18164	On-chip summing requested	N	N
Observation end date	2010-11-30T09:01:29	2010-11-30T09:13:07	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect





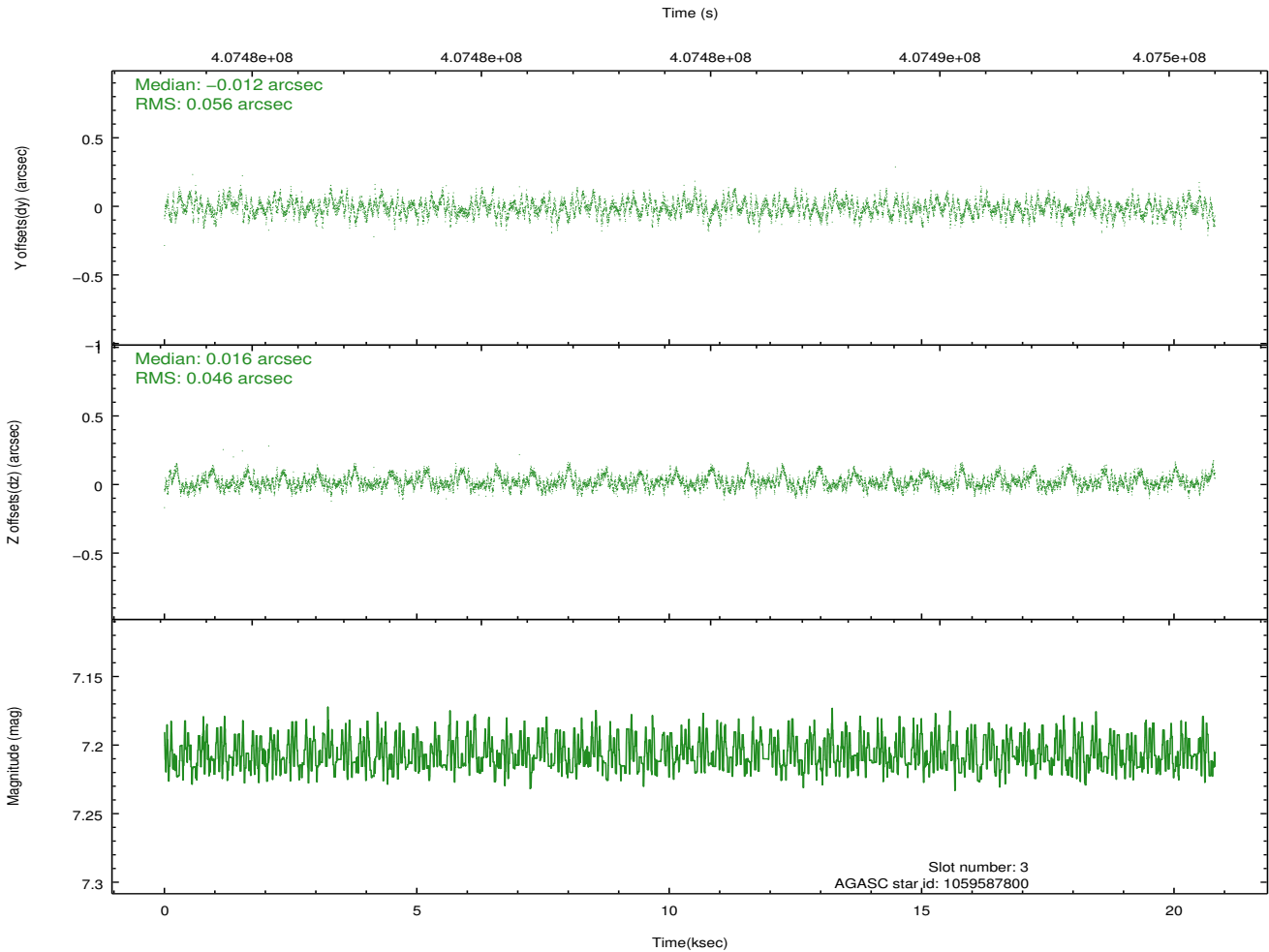
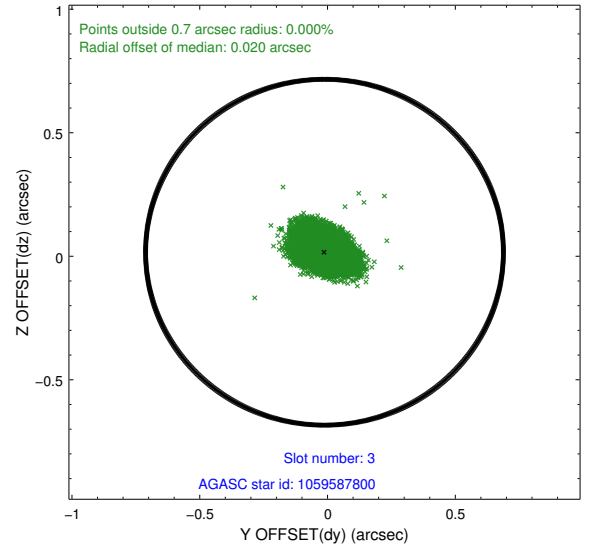
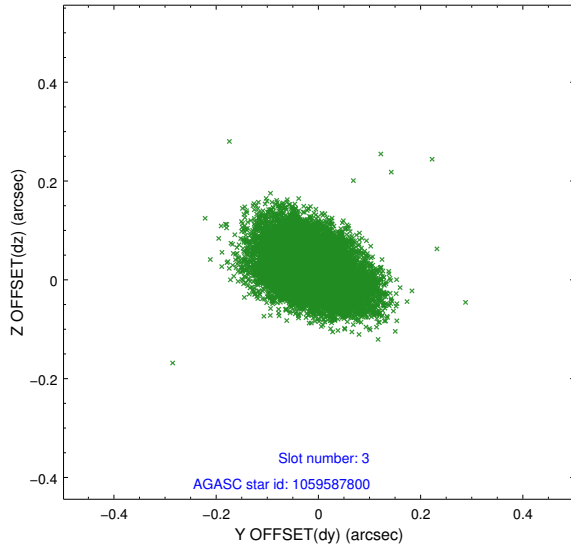
Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.92	5076	-0.097	-0.030	0.011	0.016	0.000000	0.000000	-767.76	-1736.55
1	FID	ACIS-S-4	7.01	5076	0.222	0.055	0.008	0.014	0.000000	0.000000	2145.74	171.87
2	FID	ACIS-S-5	7.03	5076	-0.157	-0.016	0.014	0.024	0.000000	0.000000	-1820.46	165.63
3	GUIDE	1059587800	7.21	10150	-0.012	0.016	0.077	0.126	78.091709	-51.550118	-2135.68	2143.17
4	GUIDE	1061293376	7.53	10151	0.008	-0.037	0.068	0.109	79.729126	-51.579452	1431.01	1297.71
5	GUIDE	1061294448	9.22	10104	-0.009	-0.135	0.100	0.160	79.302052	-51.902274	255.85	361.71
6	GUIDE	1061296568	8.34	10143	-0.037	0.052	0.077	0.122	79.123429	-51.476040	182.20	1945.28
7	GUIDE	1061297288	8.44	10147	0.045	0.099	0.069	0.111	79.226530	-52.452693	-317.83	-1541.97

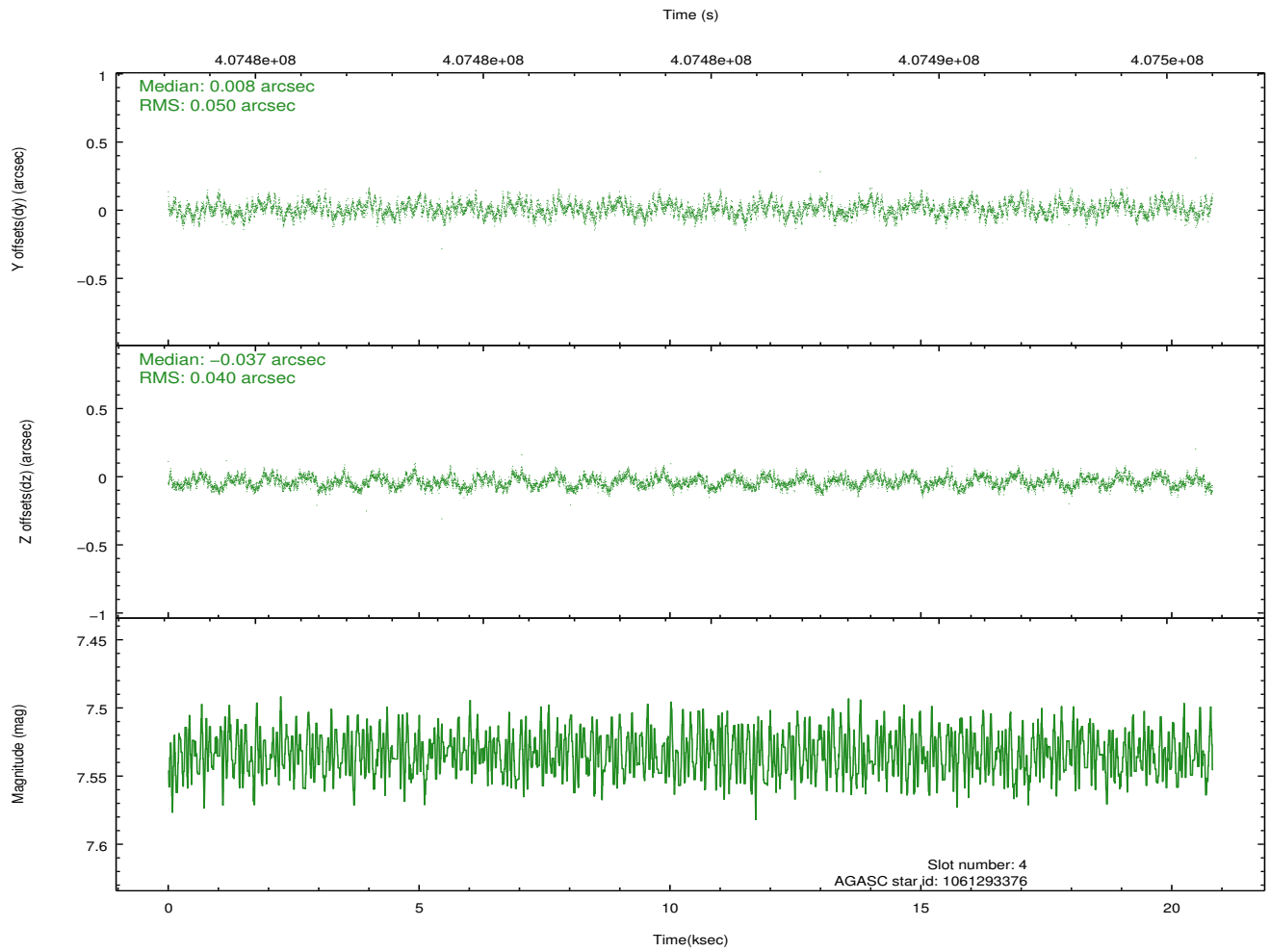
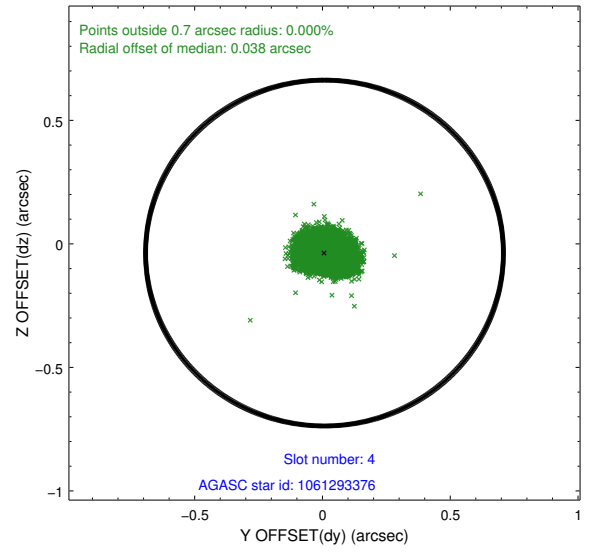
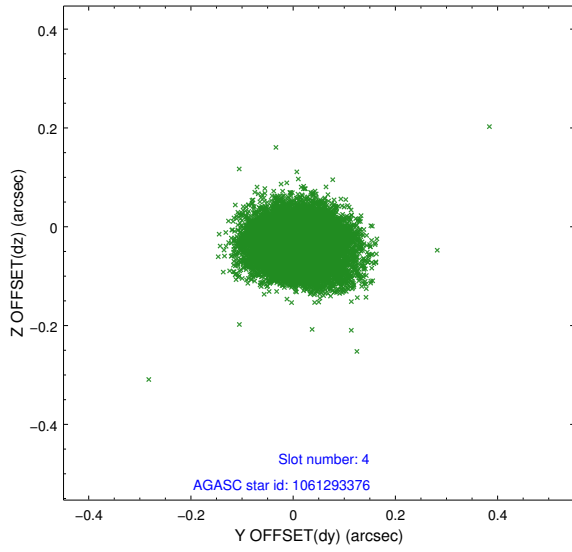
∞

2.4 Star Slots

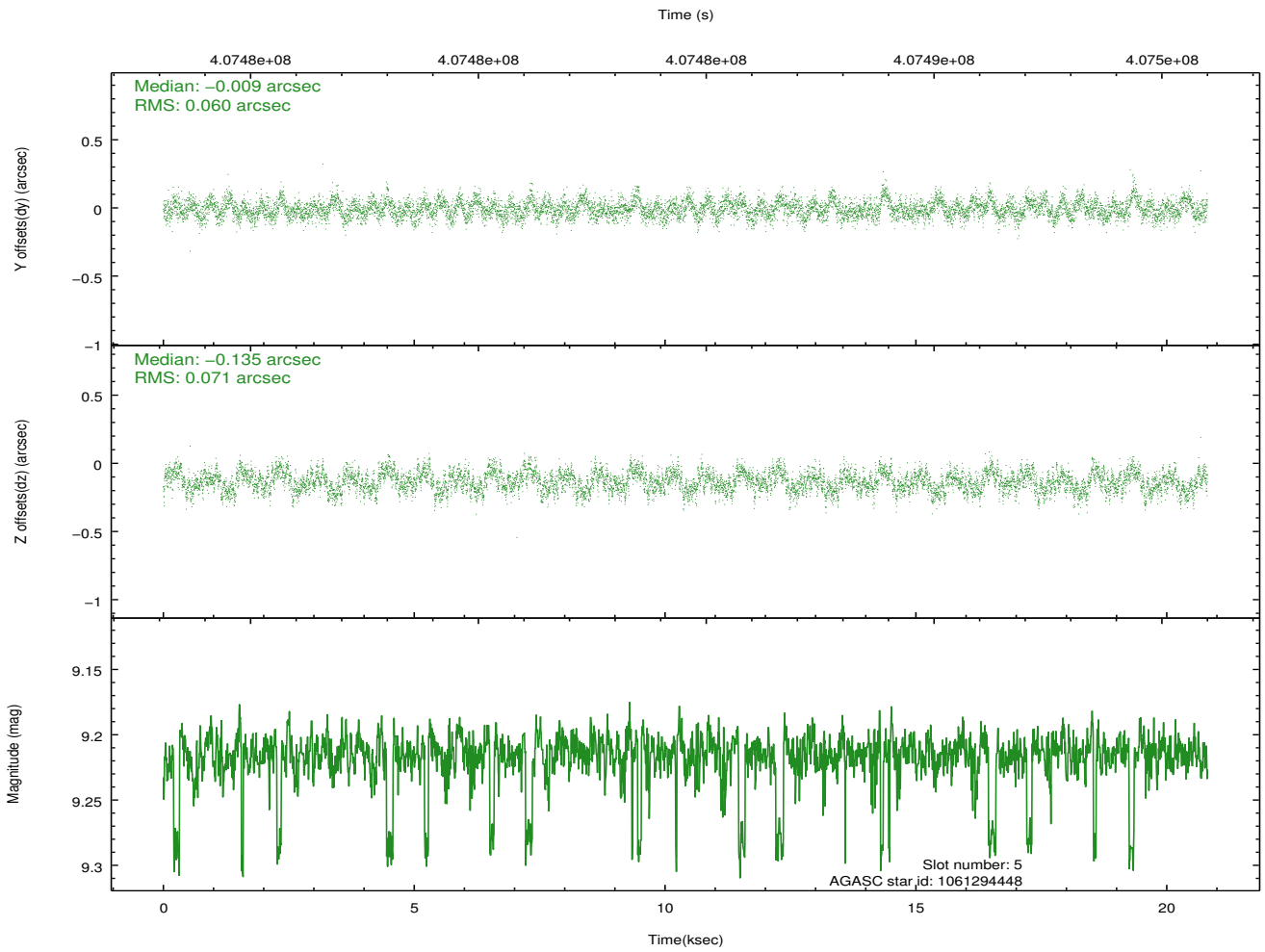
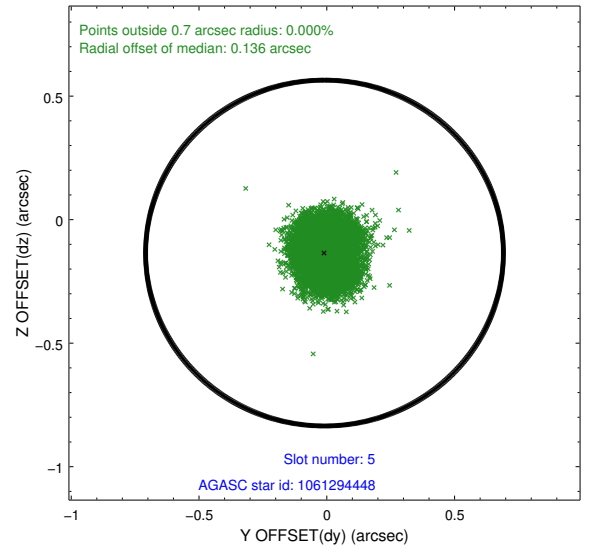
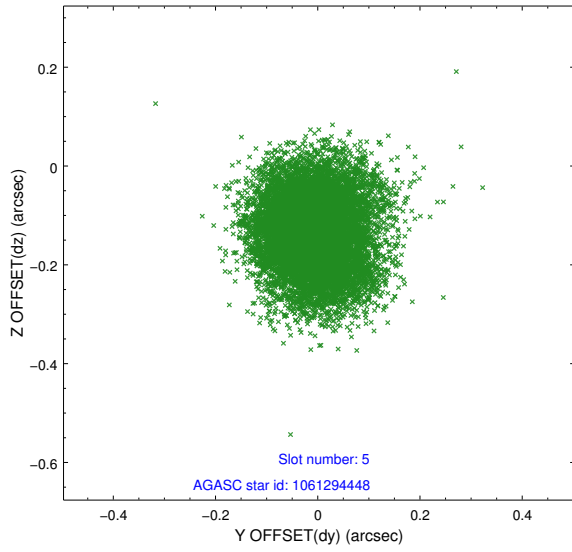
2.4.1 Slot 3



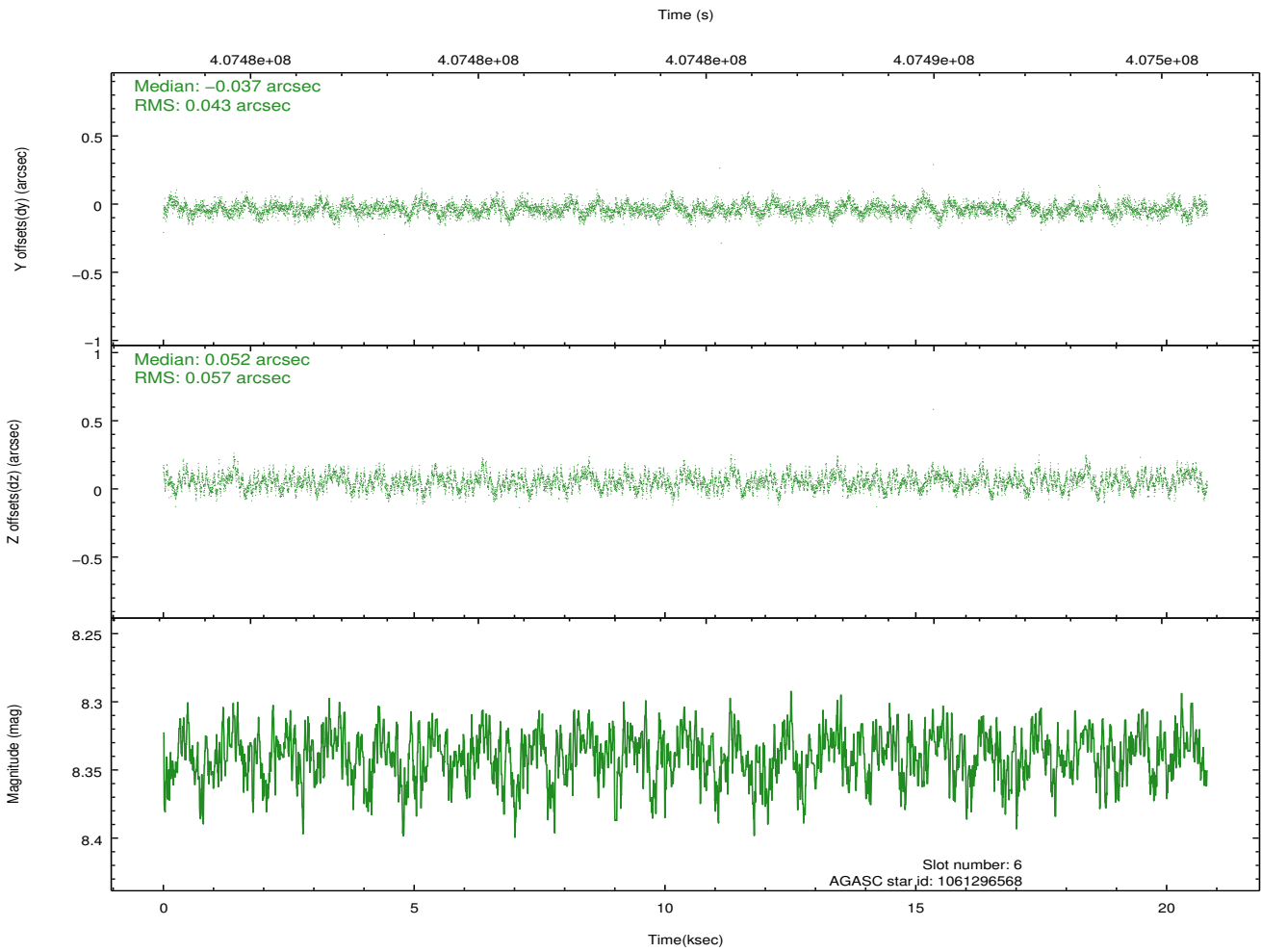
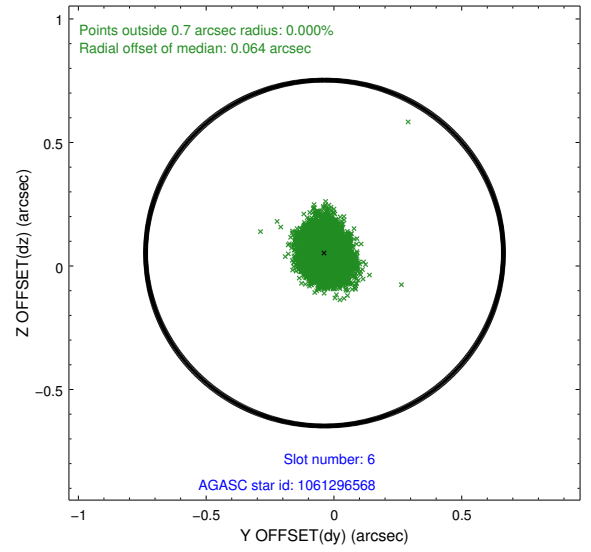
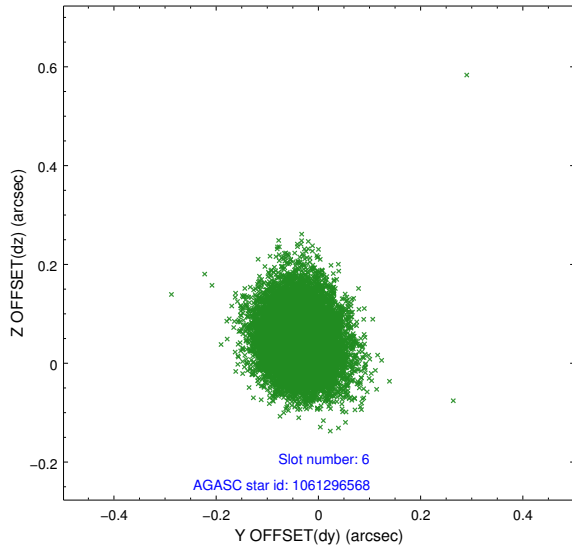
2.4.2 Slot 4



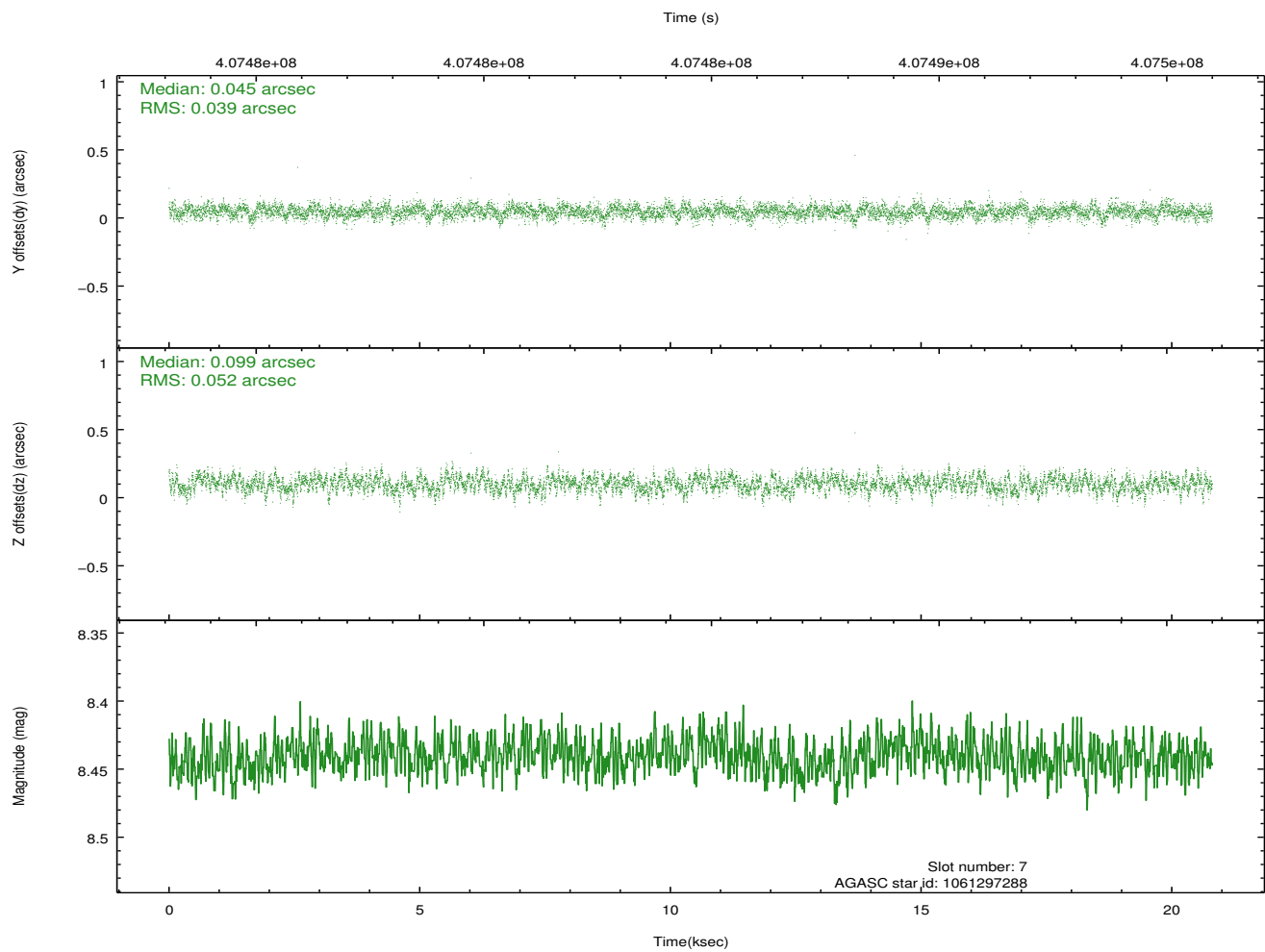
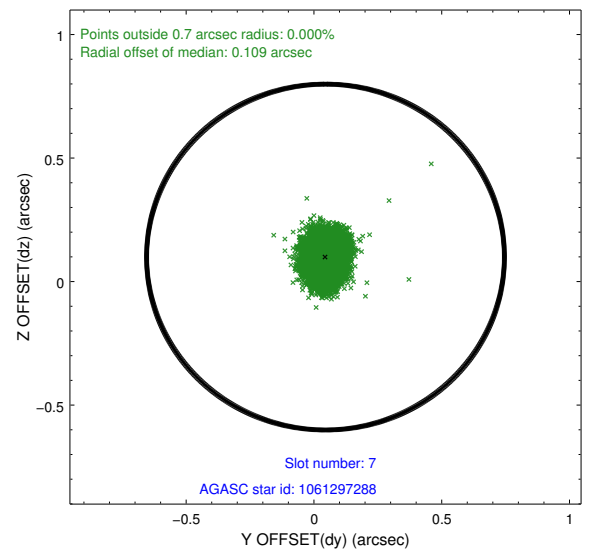
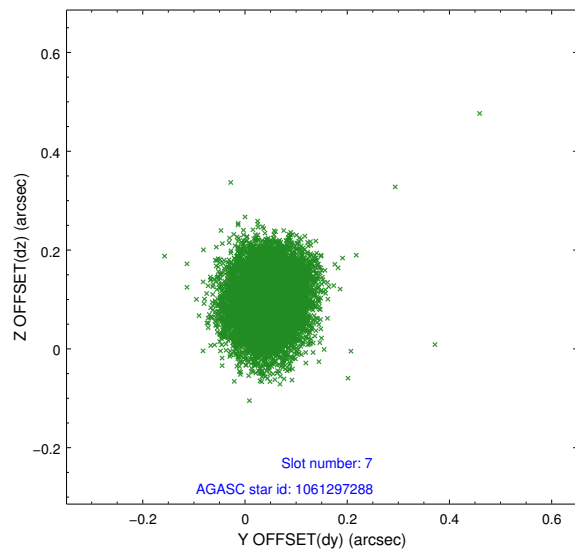
2.4.3 Slot 5



2.4.4 Slot 6

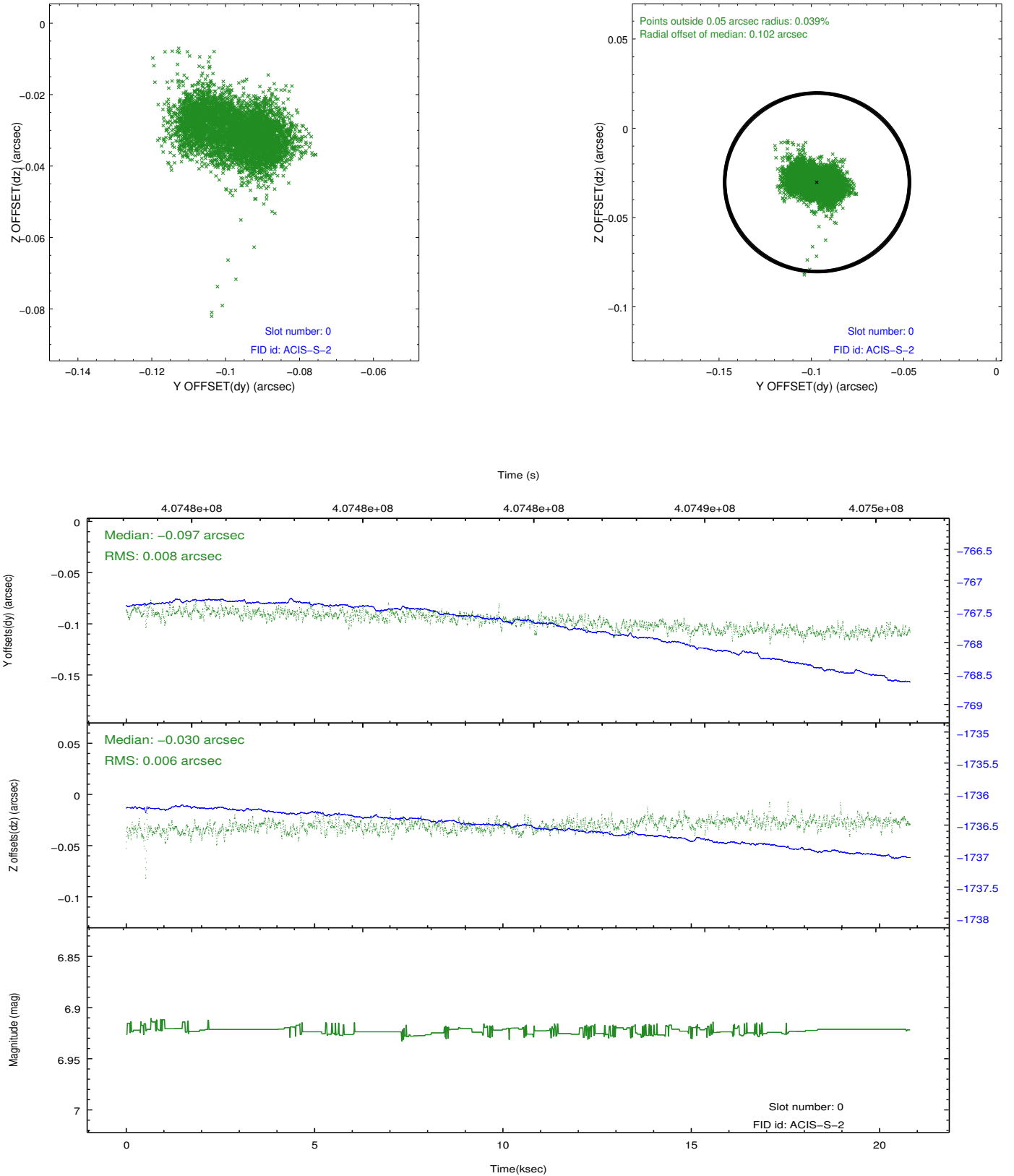


2.4.5 Slot 7

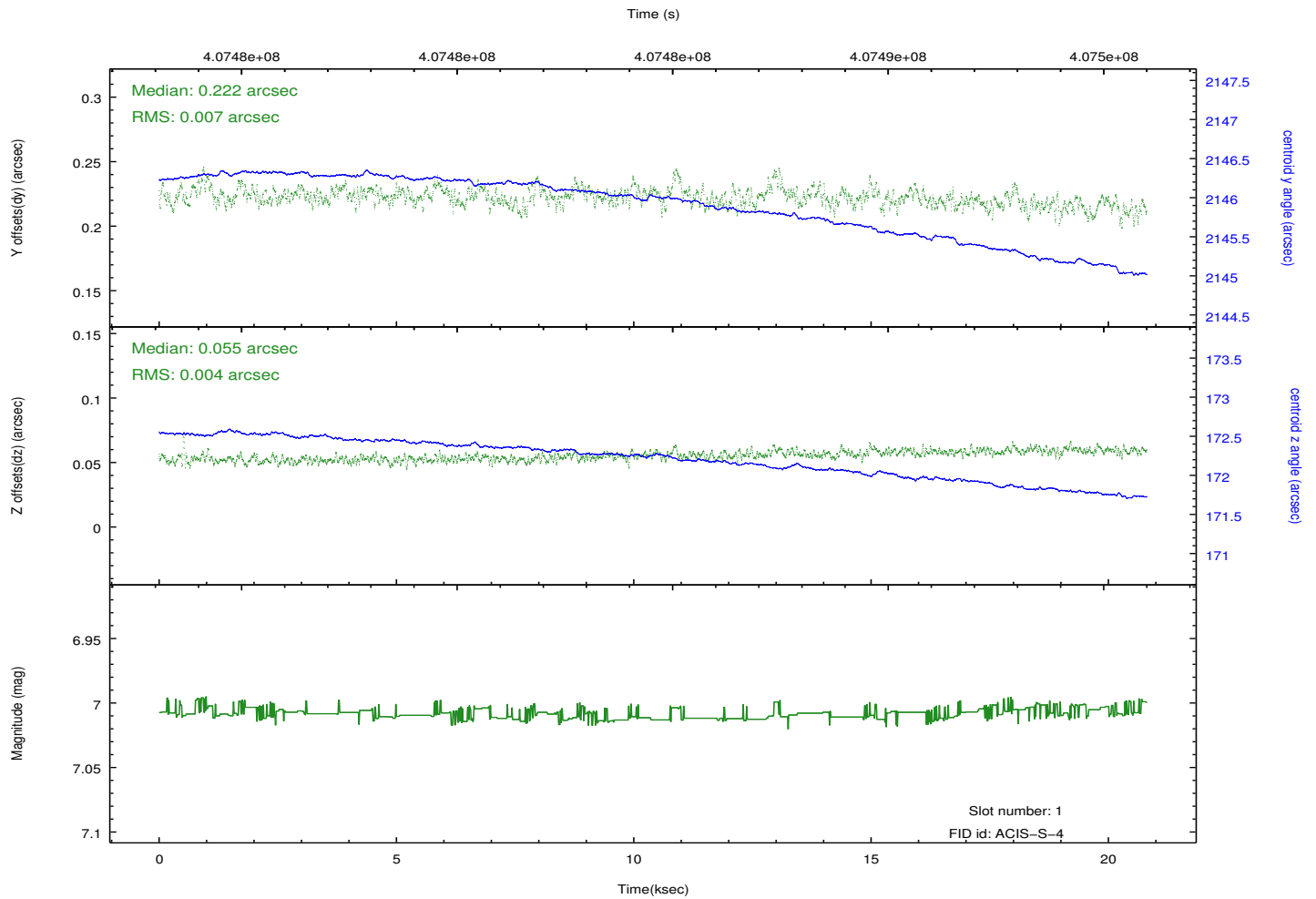
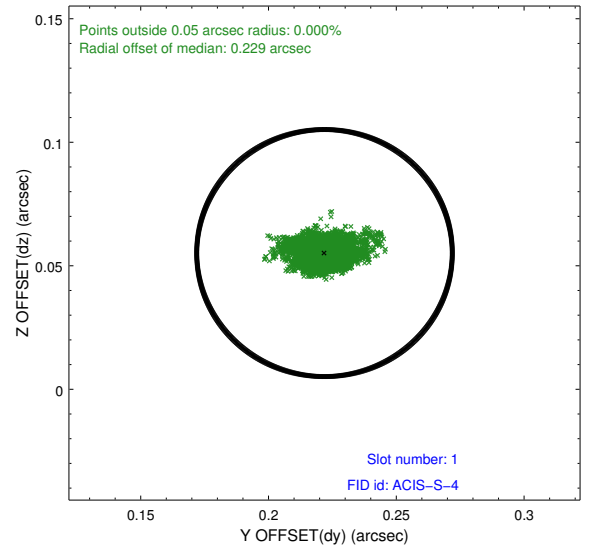
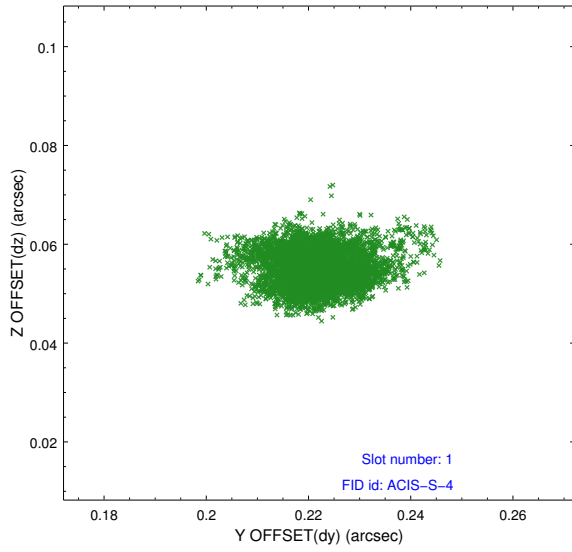


2.5 FID Slots

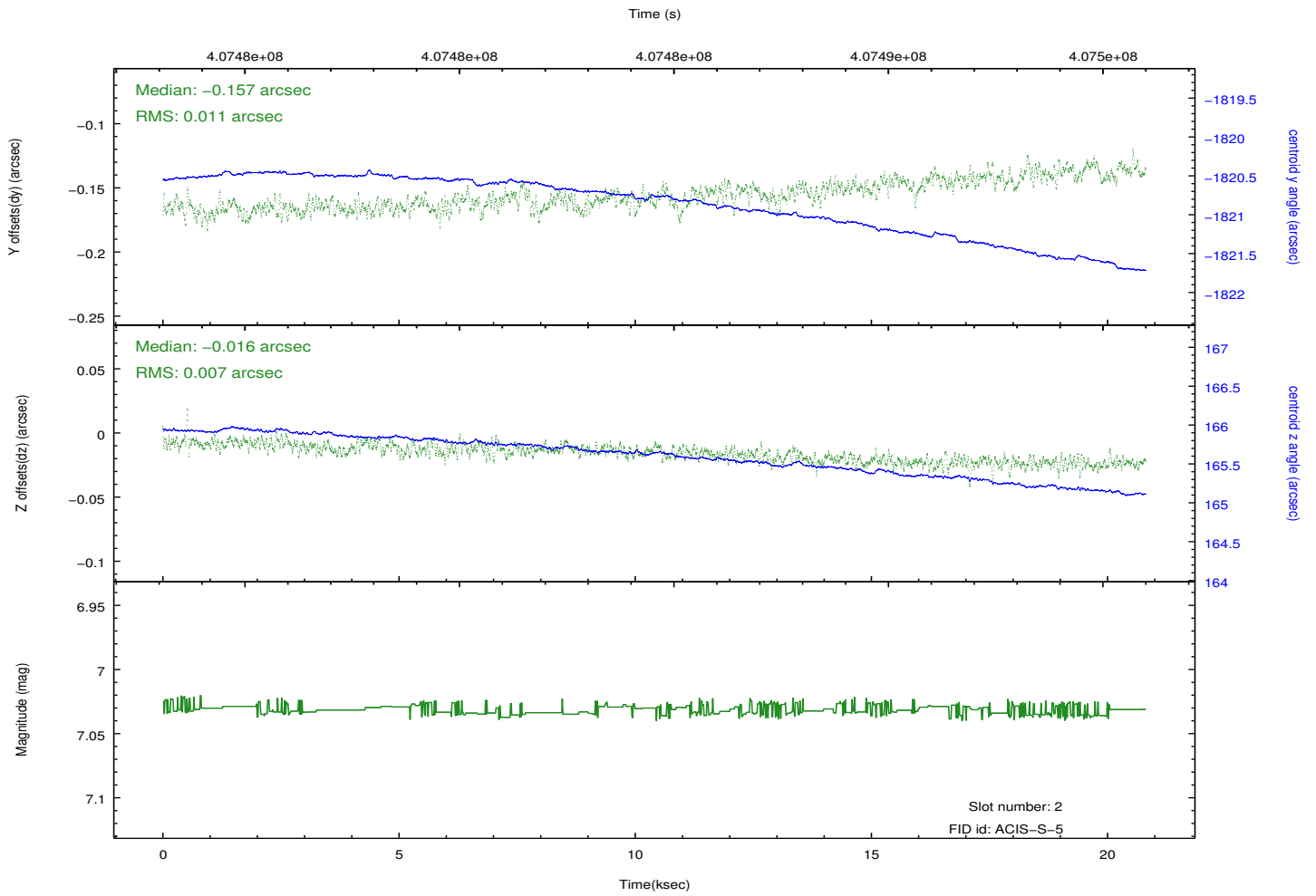
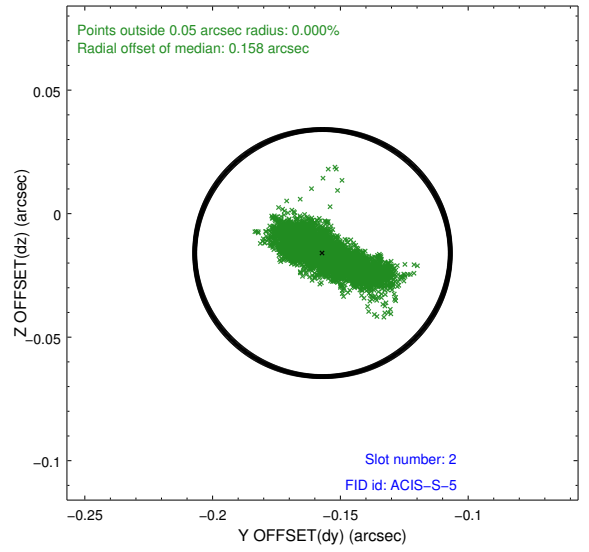
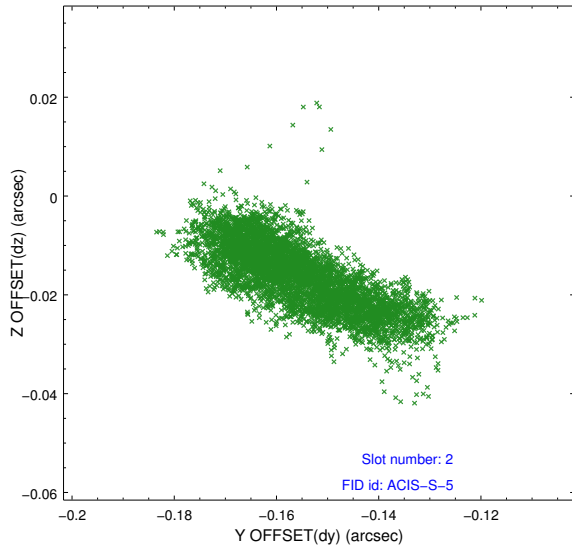
2.5.1 Slot 0



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)	2012.07.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.047999925375

A.2 Comments