

V&V Reference Report

L2 ASCDS Version : 10.4.2.1

Observation 18076 - L2 Version 1
Chandra X-Ray Center

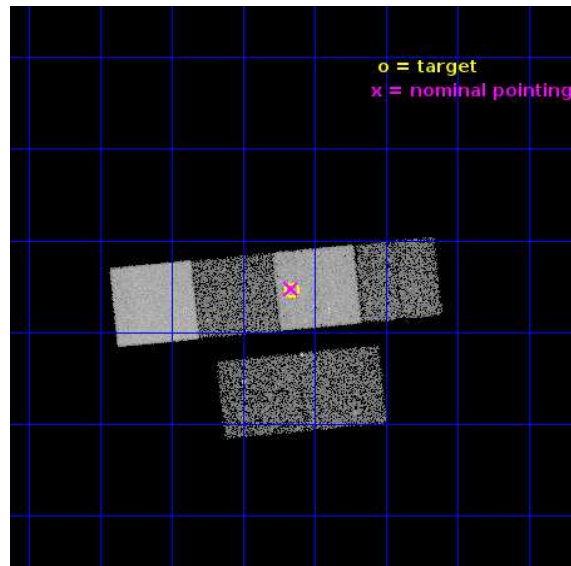
L2 Processing Date : Nov 21 2015

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

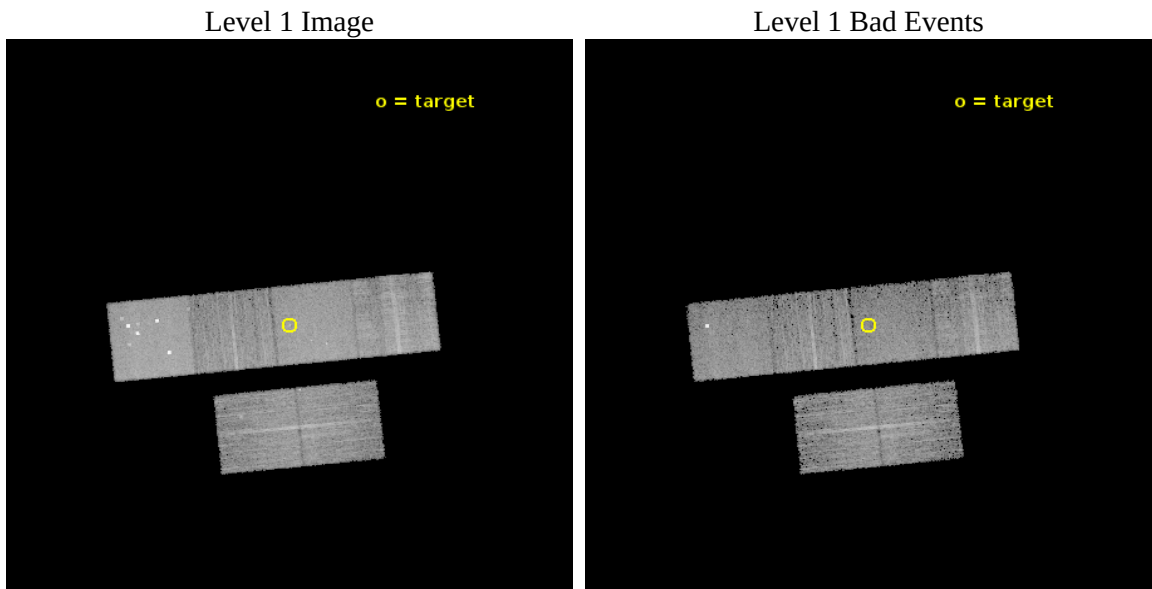
seq_num	901190	Sequence number
obs_id	18076	Observation id
title	Compton-Thick AGN: The Hunt is on	Proposal title
observer	Dr. Marco Ajello	Principal investigator
object	NGC 1358	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	53.415417	Observer's specified target RA [deg]
dec_targ	-5.089389	Observer's specified target Dec [deg]
ra_nom	53.415532154903	Nominal RA [deg]
dec_nom	-5.0871791967971	Nominal Dec [deg]
roll_nom	354.17009751572	Nominal Roll [deg]
revision	1	Processing version of data
ontime	9955.200148344	Sum of GTIs [s]
livetime	9829.1414097638	Livetime [s]
ontime2	9955.200148344	Sum of GTIs [s]
ontime3	9955.200148344	Sum of GTIs [s]
ontime5	9955.200148344	Sum of GTIs [s]
ontime6	9955.200148344	Sum of GTIs [s]
ontime7	9955.200148344	Sum of GTIs [s]
ontime8	9955.200148344	Sum of GTIs [s]
l2events	92141	Number of level 2 events



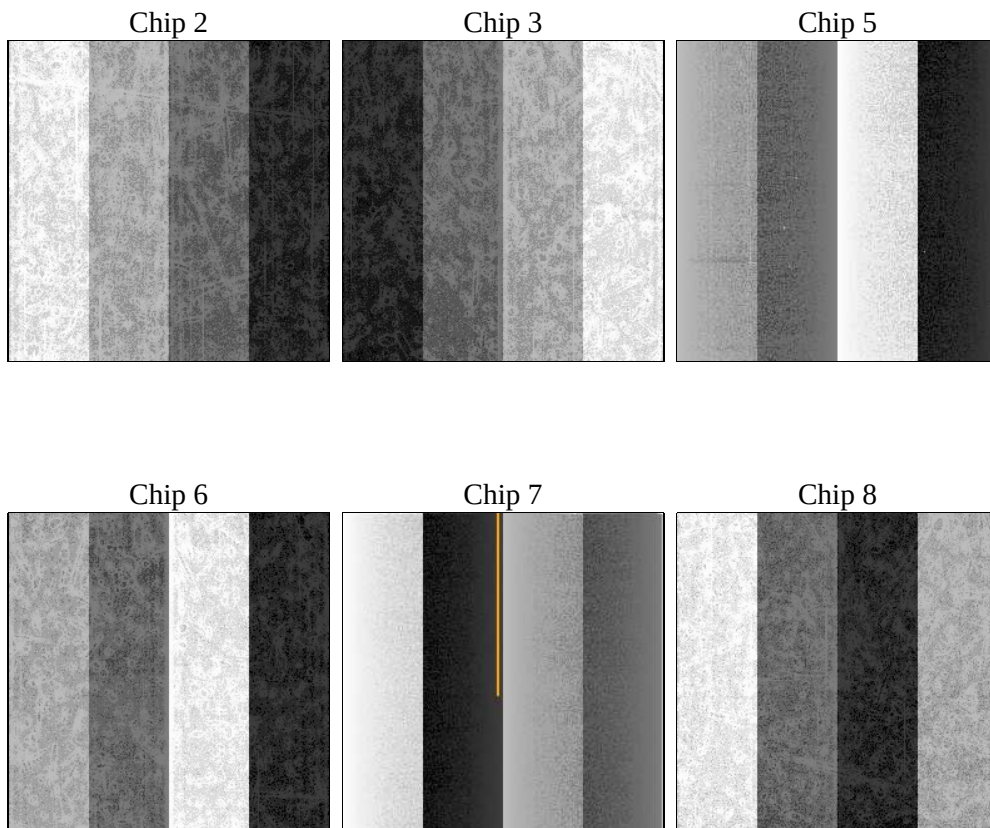
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.2.1	Processing system revision	ontime	9955.200148344	Sum of GTIs [s]
caldsver	4.6.10a	 	ontime2	9955.200148344	Sum of GTIs [s]
date	2015-11-21T14:56:37	Date and time of file creation	ontime3	9955.200148344	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	9955.200148344	Sum of GTIs [s]
			ontime6	9955.200148344	Sum of GTIs [s]
			ontime7	9955.200148344	Sum of GTIs [s]
			ontime8	9955.200148344	Sum of GTIs [s]
			l1events	404977	Number of level 1 events

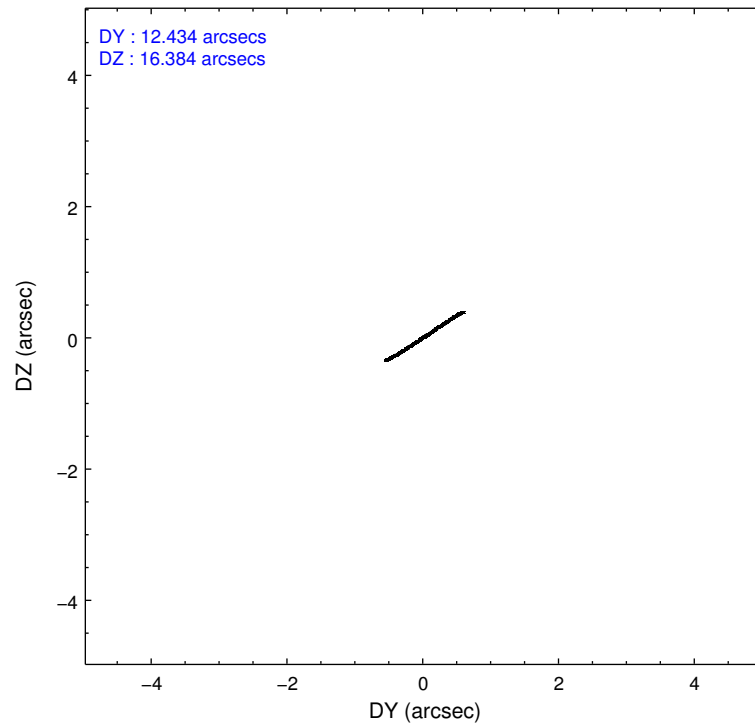
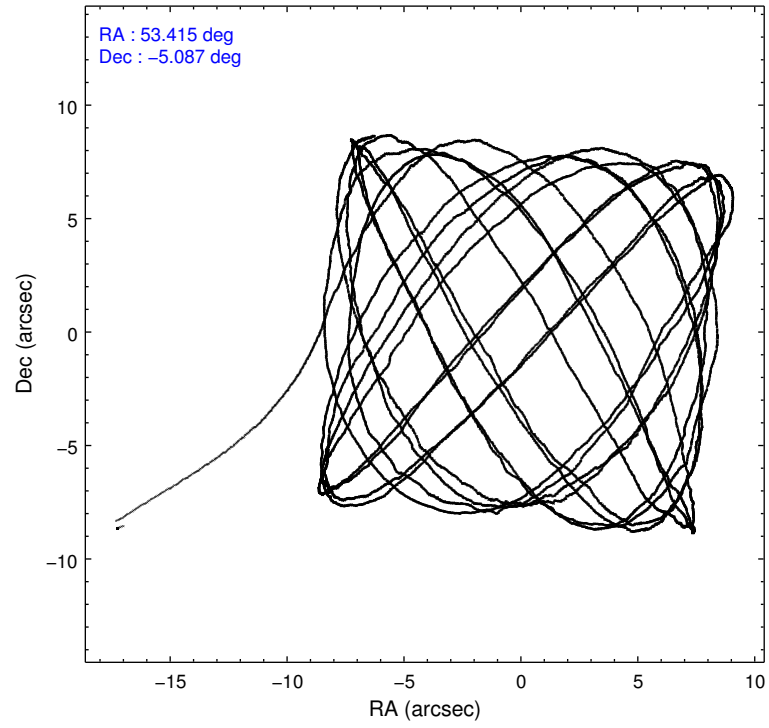
2.1.4 Events

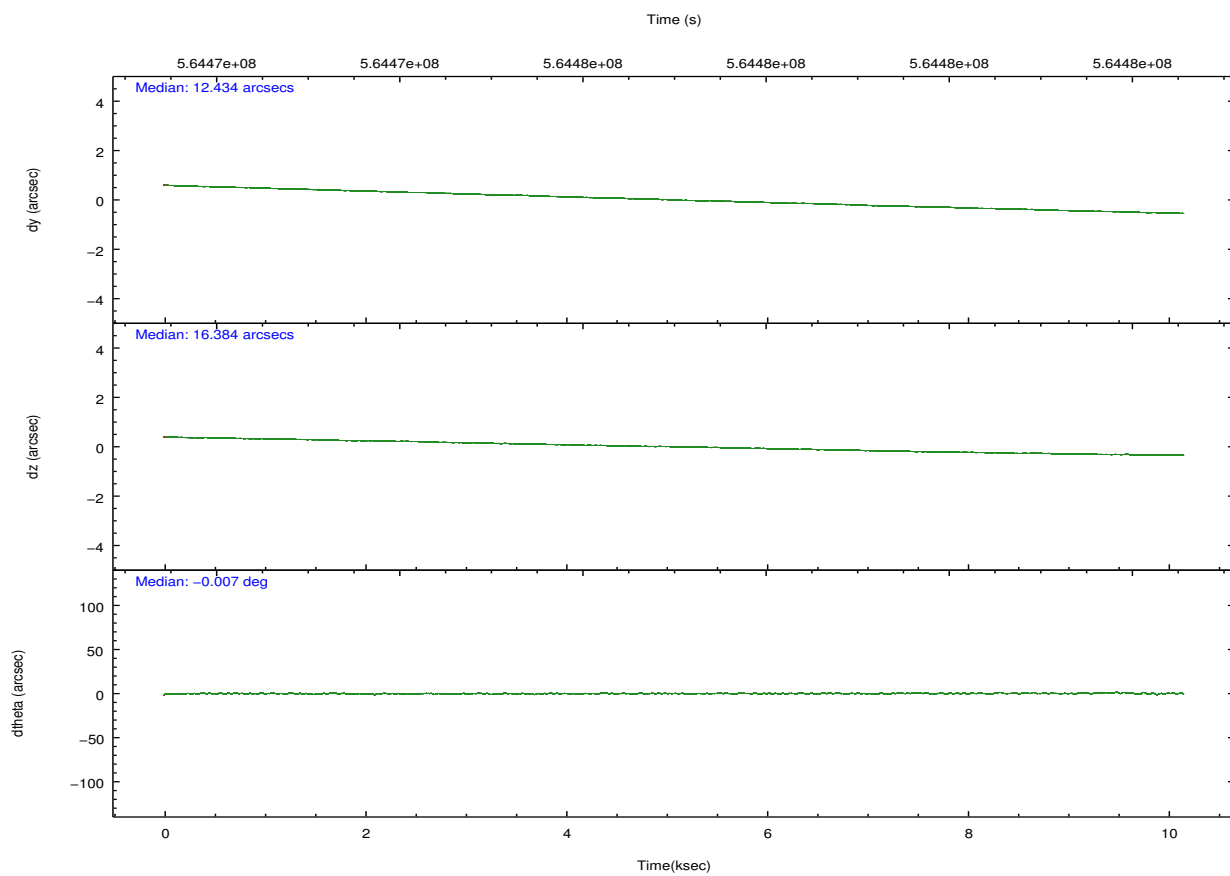
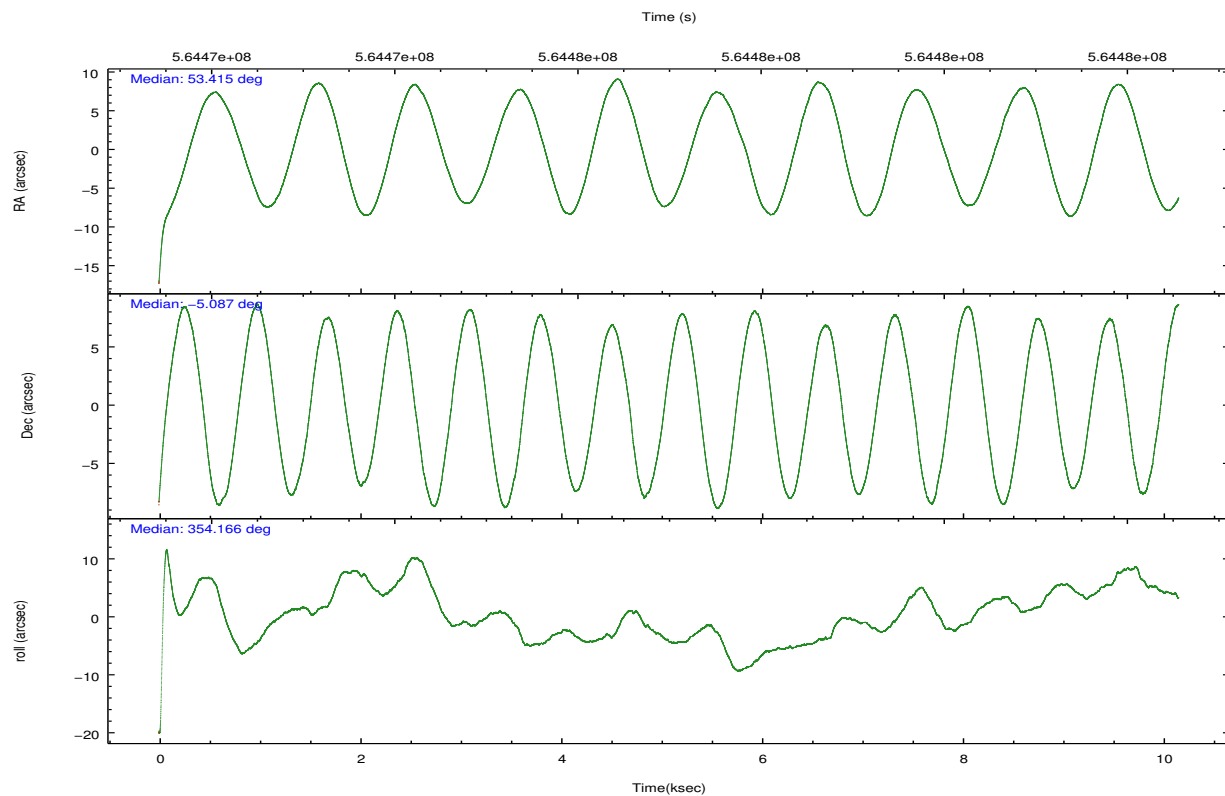
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	54478	51994	99662	55048	73097	70698	grade 0 events	2191	2199	11297	2110	2553	4909
rejected events	48378	46056	48989	48749	41804	52882		4%	4%	11%	3%	3%	6%
rejected %	88%	88%	49%	88%	57%	74%	grade 1 events	20	29	199	28	101	56
								0%	0%	0%	0%	0%	0%
							grade 2 events	1509	1237	13545	1499	6568	4380
								2%	2%	13%	2%	8%	6%
							grade 3 events	628	616	1314	589	2388	1835
								1%	1%	1%	1%	3%	2%
							grade 4 events	614	642	1224	552	2401	1776
								1%	1%	1%	1%	3%	2%
							grade 5 events	2273	2696	5948	2717	6946	3910
								4%	5%	5%	4%	9%	5%
							grade 6 events	1163	1244	23310	1551	17393	4919
								2%	2%	23%	2%	23%	6%
							grade 7 events	46080	43331	42825	46002	34747	48913
								84%	83%	42%	83%	47%	69%

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	53.390589	53.41553215490276	CCD I2 on	O4	Y
[deg] Pointing Dec	-5.098777	-5.087179196797052	CCD I3 on	O3	Y
[deg] Pointing Roll	354.011301	354.1700975157151	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O2	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	O1	Y
[s] Observation start time (MET)	564472078.184000	564470662.55264	CCD S5 on	N	N
Observation start date	2015-11-21T05:46:50	2015-11-21T05:24:22	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	564482078.184000	564483511.95337	On-chip summing requested	N	N
Observation end date	2015-11-21T08:33:30	2015-11-21T08:58:31	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



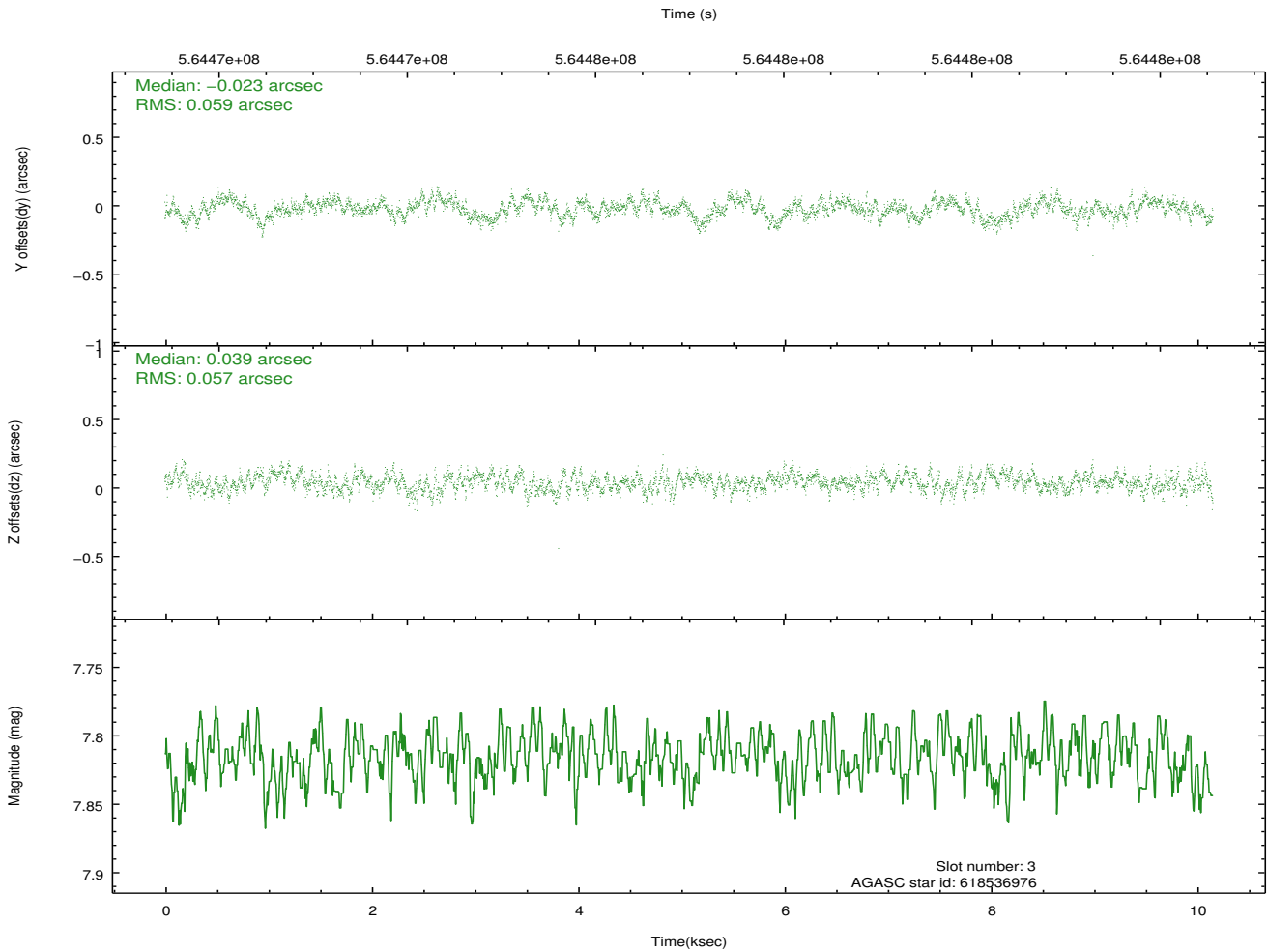
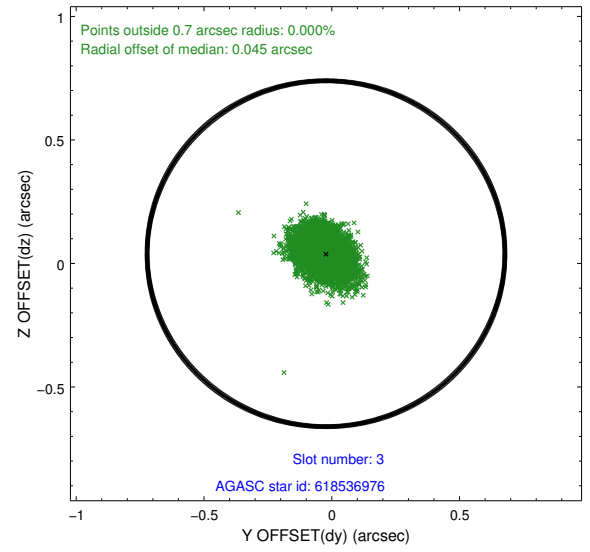
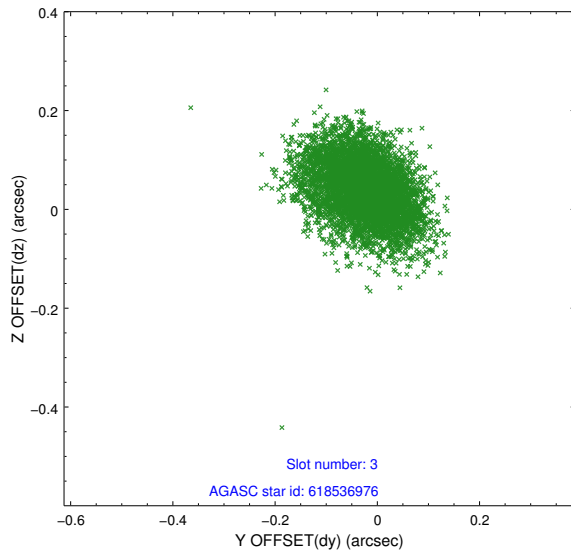


Slot Statistics

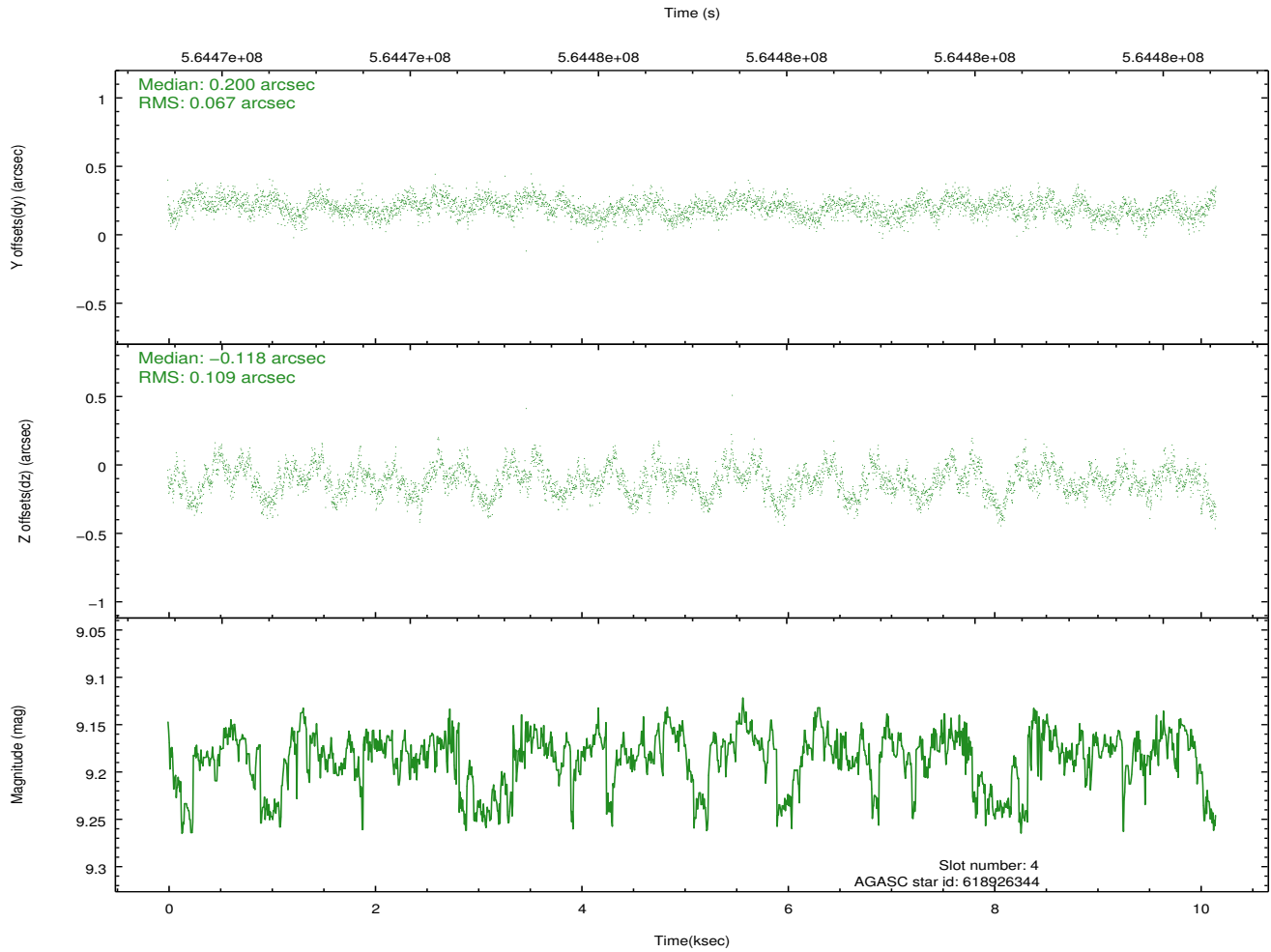
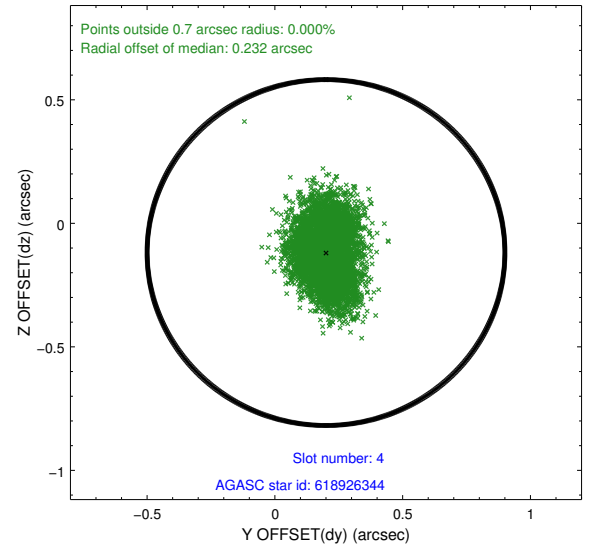
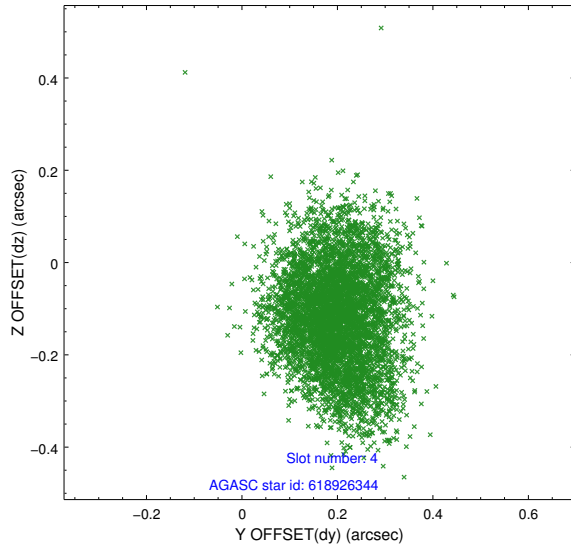
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.21	2478	0.141	-0.115	0.021	0.035	0.000000	0.000000	930.88	-1733.47
1	FID		ACIS-S-5	7.25	2478	-0.243	0.076	0.025	0.038	0.000000	0.000000	-1818.26	163.66
2	FID		ACIS-S-6	7.36	2478	0.082	0.051	0.009	0.016	0.000000	0.000000	395.75	808.24
3	GUIDE	used	618536976	7.81	4955	-0.023	0.039	0.088	0.140	53.776940	-4.898653	1303.54	860.84
4	GUIDE	used	618926344	9.18	4948	0.200	-0.118	0.135	0.224	53.552788	-5.058454	564.31	205.08
5	GUIDE	used	618927272	10.02	4950	0.291	0.328	0.213	0.339	52.866219	-5.413374	-1749.82	-1323.01
6	GUIDE	used	618934264	6.33	4955	-0.243	-0.165	0.081	0.137	53.988529	-5.124946	2142.13	128.75
7	GUIDE	used	618537504	8.50	4953	-0.210	-0.088	0.101	0.162	53.177235	-4.420322	-1016.13	2348.81

2.4 Star Slots

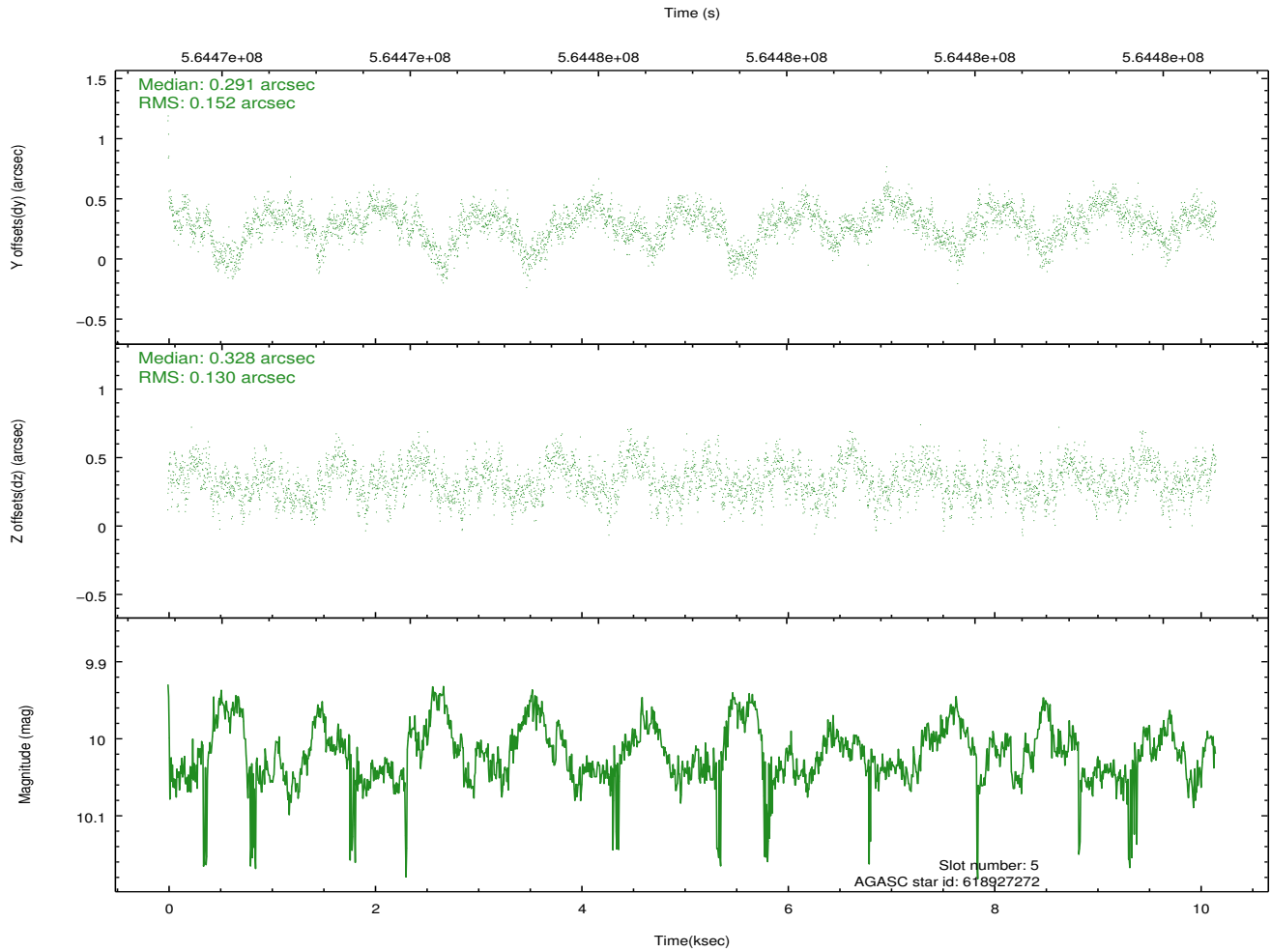
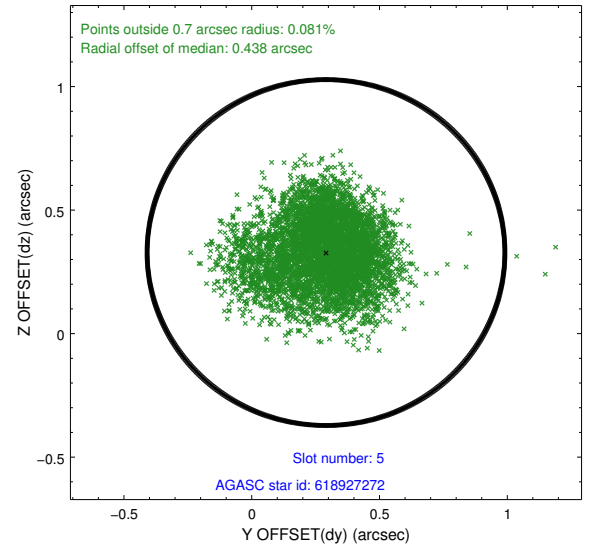
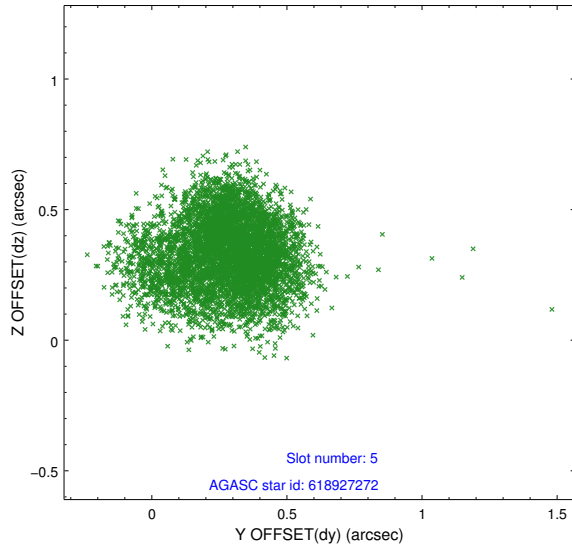
2.4.1 Slot 3



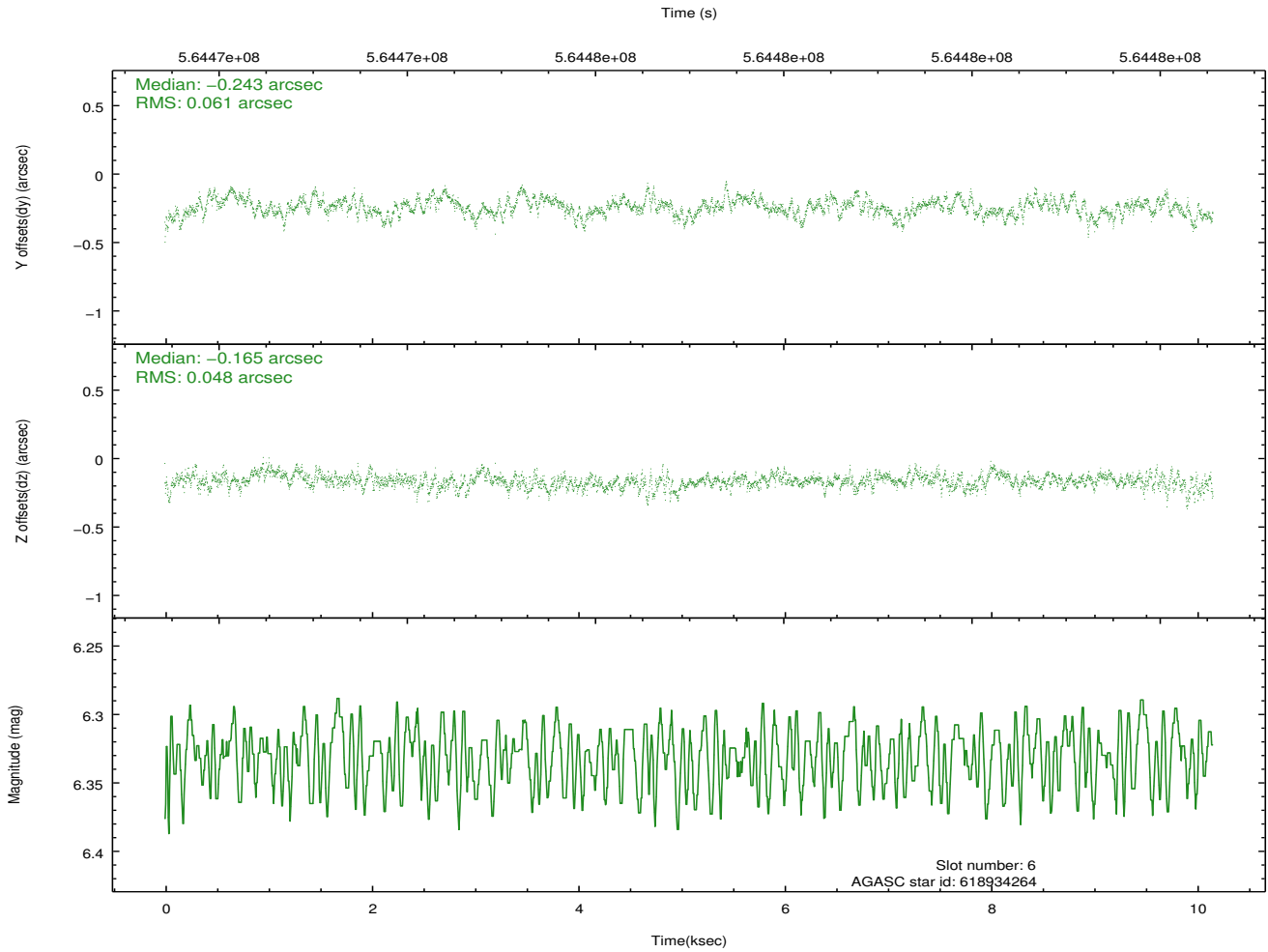
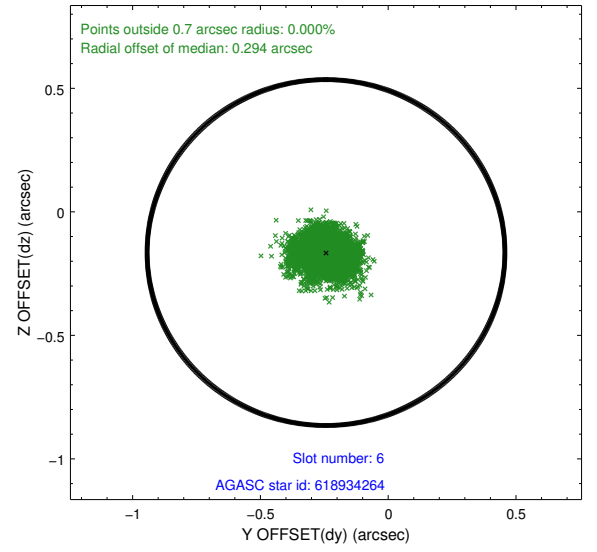
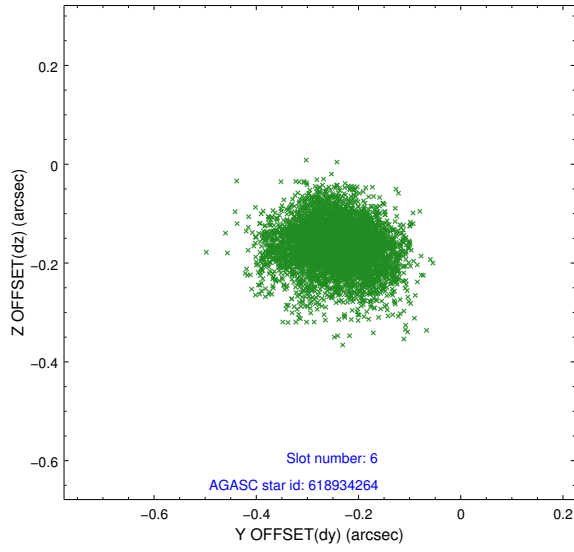
2.4.2 Slot 4



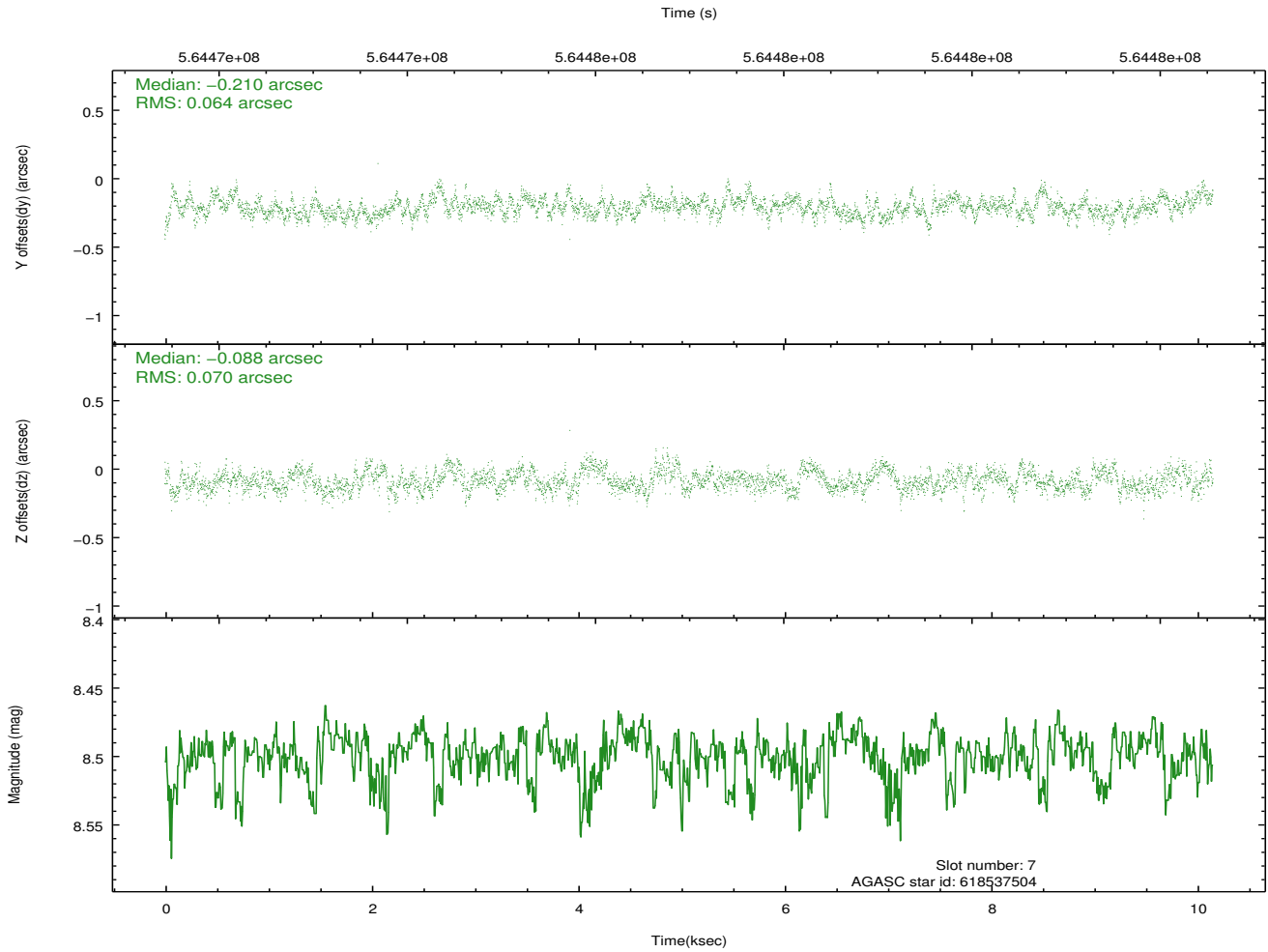
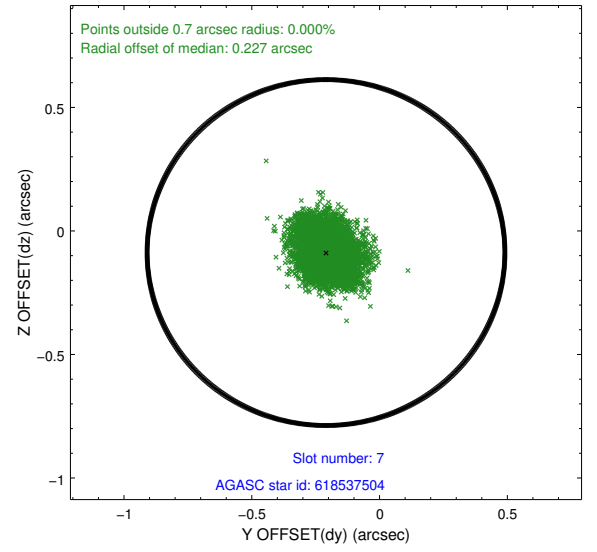
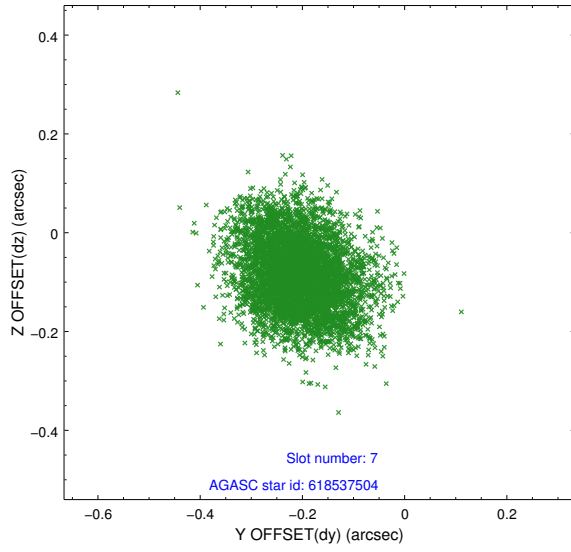
2.4.3 Slot 5



2.4.4 Slot 6

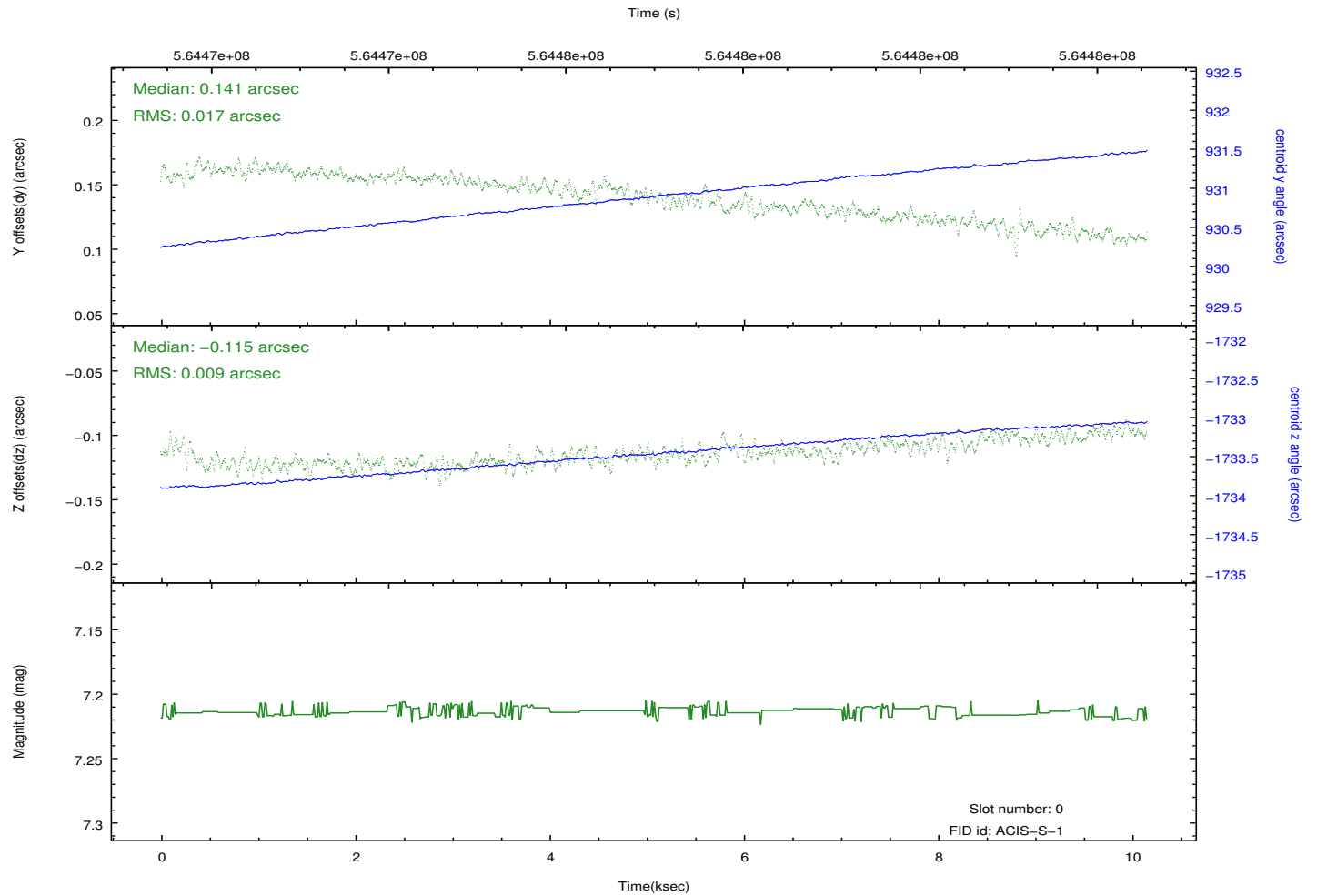
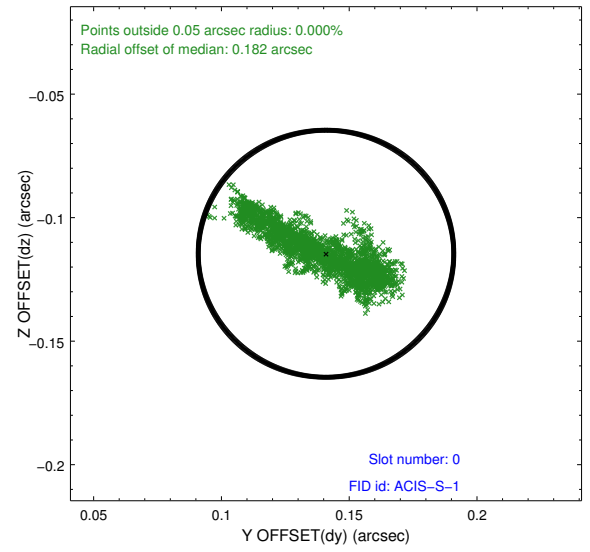
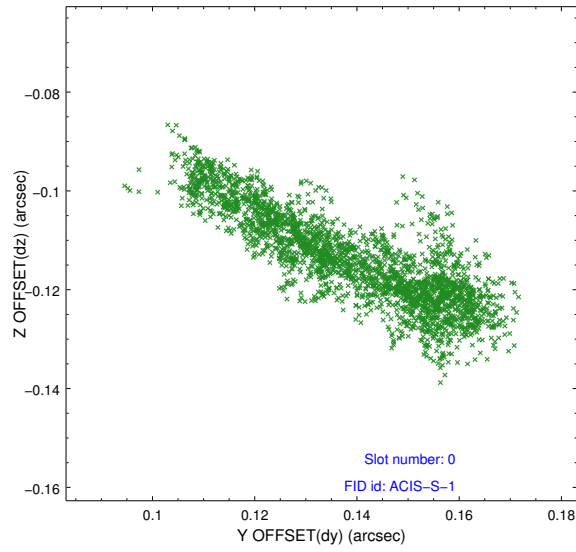


2.4.5 Slot 7

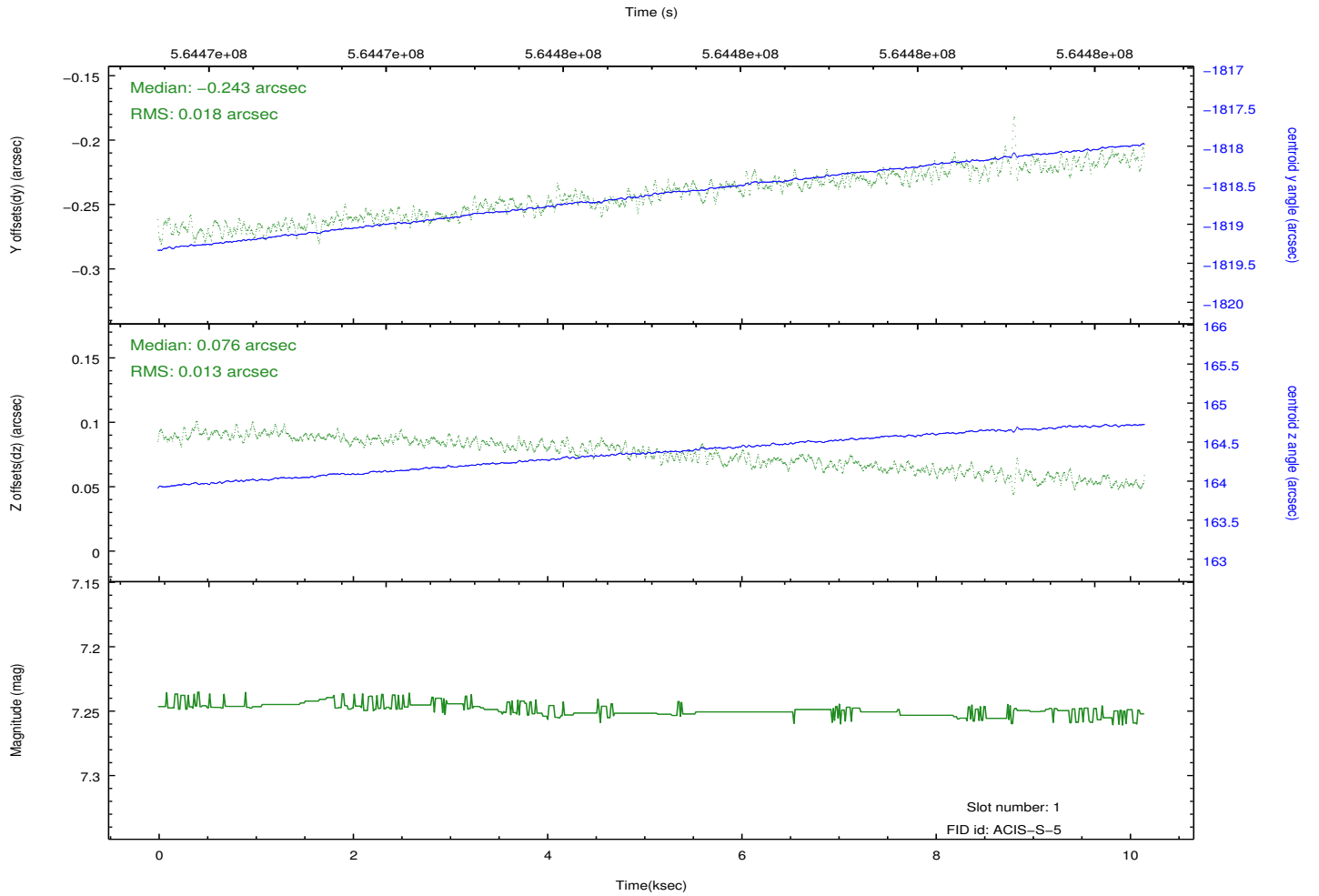
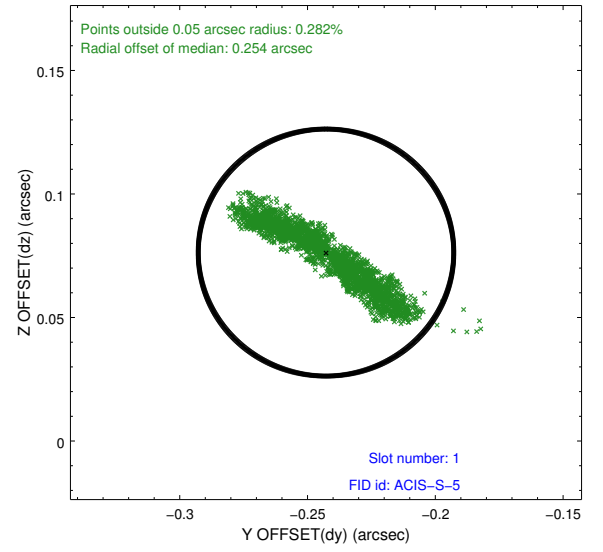
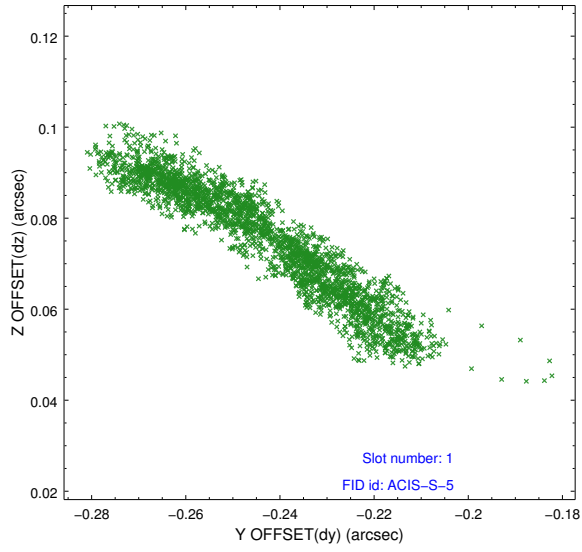


2.5 FID Slots

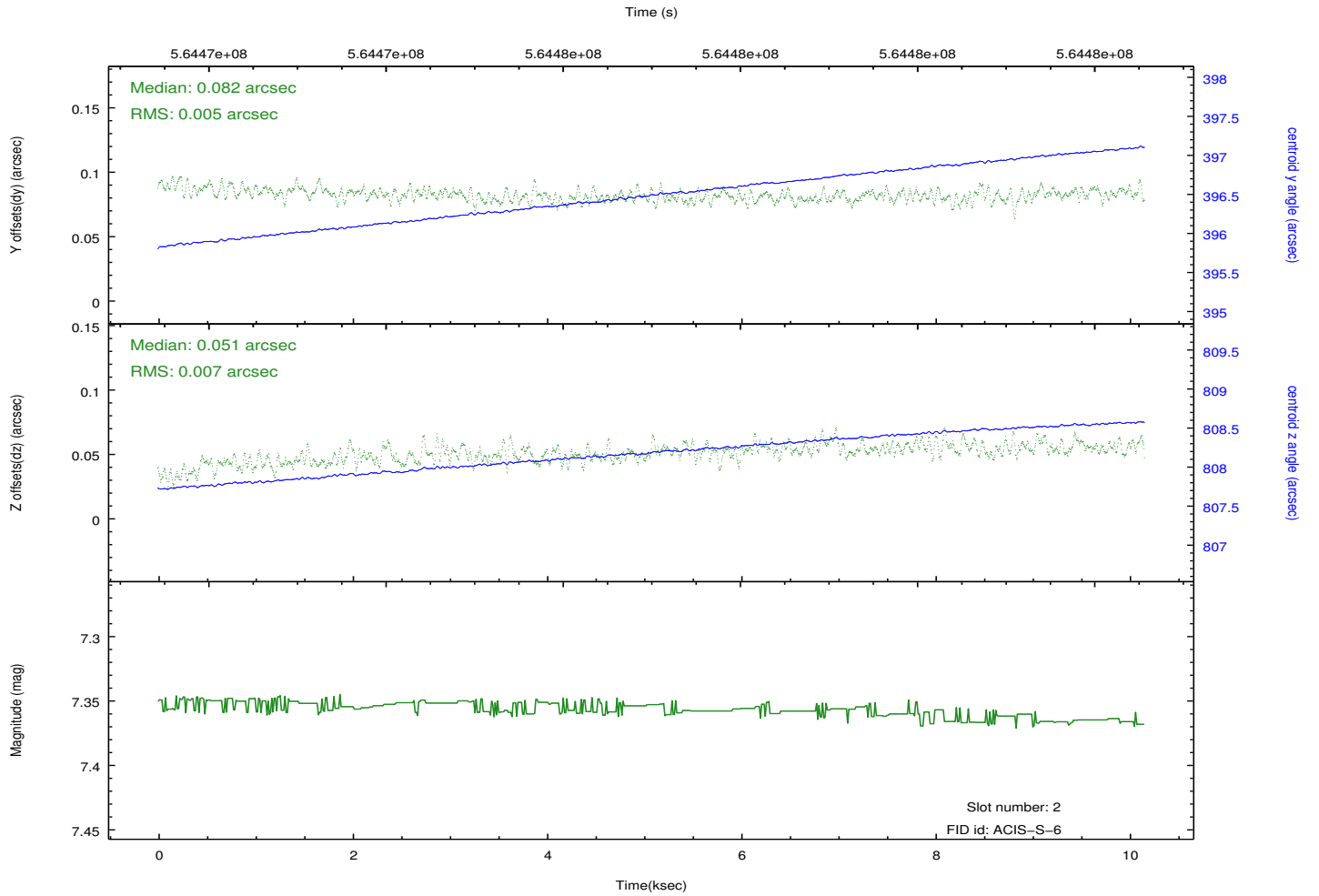
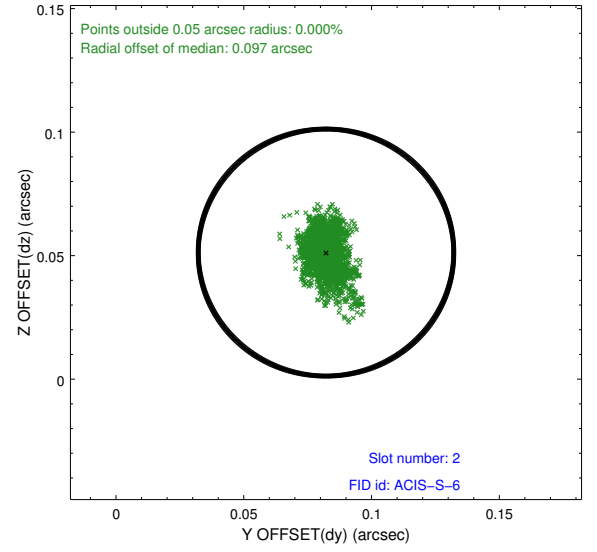
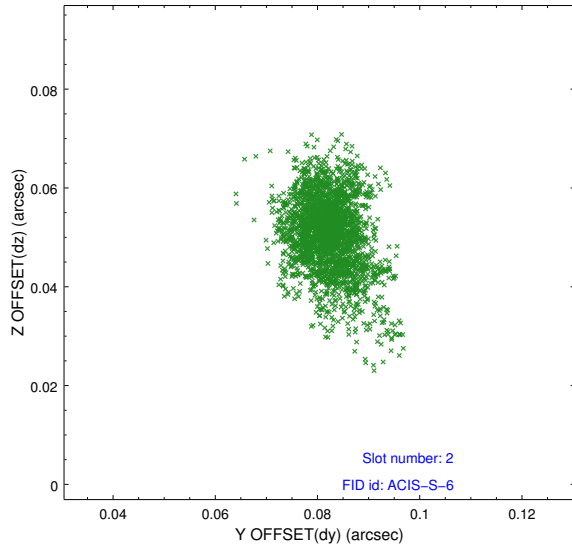
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2015.11.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.955200148344

A.2 Comments