

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19374 - L2 Version 2
Chandra X-Ray Center

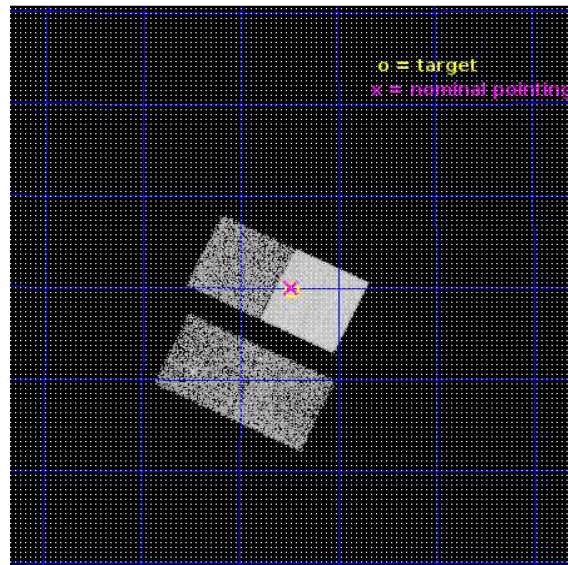
L2 Processing Date : Oct 30 2017

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1 Front

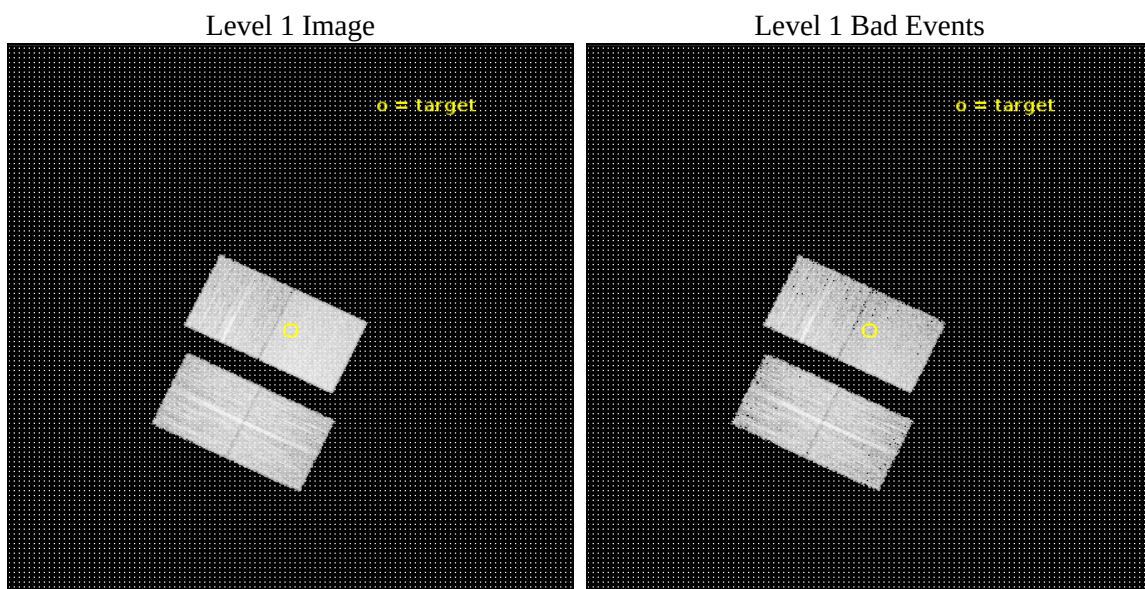
seq_num	601331	Sequence number
obs_id	19374	Observation id
title	A Statistically Complete High Resolution Chandra and Radio (eMERLIN) Survey of the Palomar Nearby Galaxies Sample	Proposal title
observer	Ian McHardy	Principal investigator
object	NGC 4346	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	185.86625	Observer's specified target RA [deg]
dec_targ	46.993889	Observer's specified target Dec [deg]
ra_nom	185.86935607434	Nominal RA [deg]
dec_nom	47.000181887423	Nominal Dec [deg]
roll_nom	25.64230148446	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10068.800077558	Sum of GTIs [s]
livetime	9937.2437920015	Livetime [s]
ontime2	10068.800077558	Sum of GTIs [s]
ontime3	10068.800077558	Sum of GTIs [s]
ontime6	10068.800077558	Sum of GTIs [s]
ontime7	10068.800077558	Sum of GTIs [s]
l2events	57434	Number of level 2 events



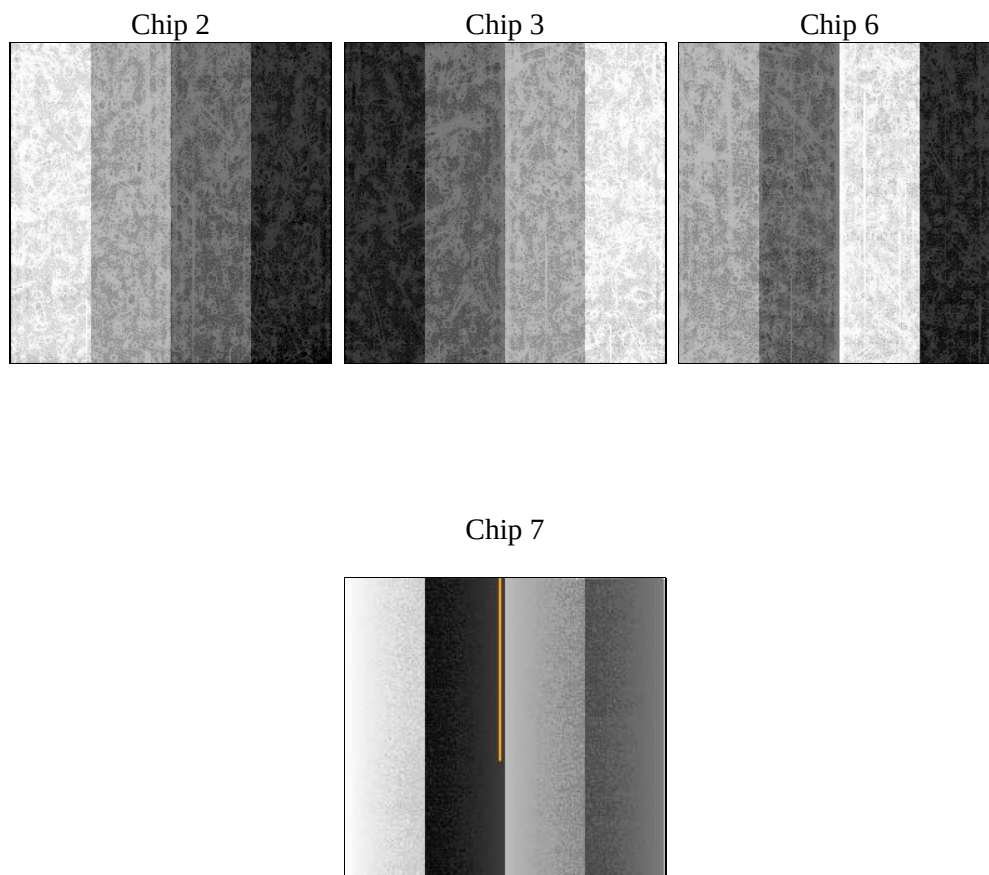
2 OBI

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	10.6	Processing system revision	ontime	10068.800077558	Sum of GTIs [s]
caldsver	4.7.6	 	ontime2	10068.800077558	Sum of GTIs [s]
date	2017-10-30T18:57:29	Date and time of file creation	ontime3	10068.800077558	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	10068.800077558	Sum of GTIs [s]
			ontime7	10068.800077558	Sum of GTIs [s]
			l1events	277902	Number of level 1 events

2.1.4 Events

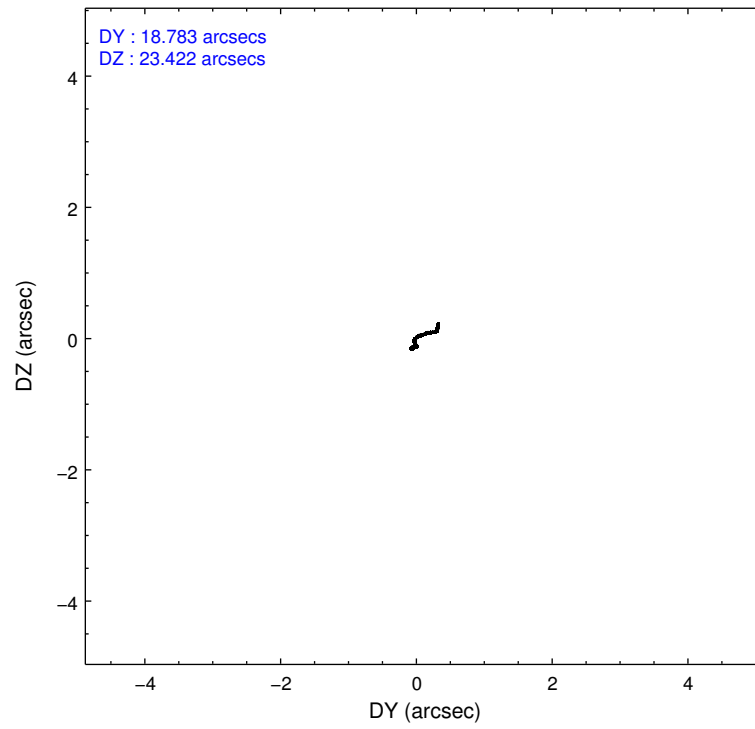
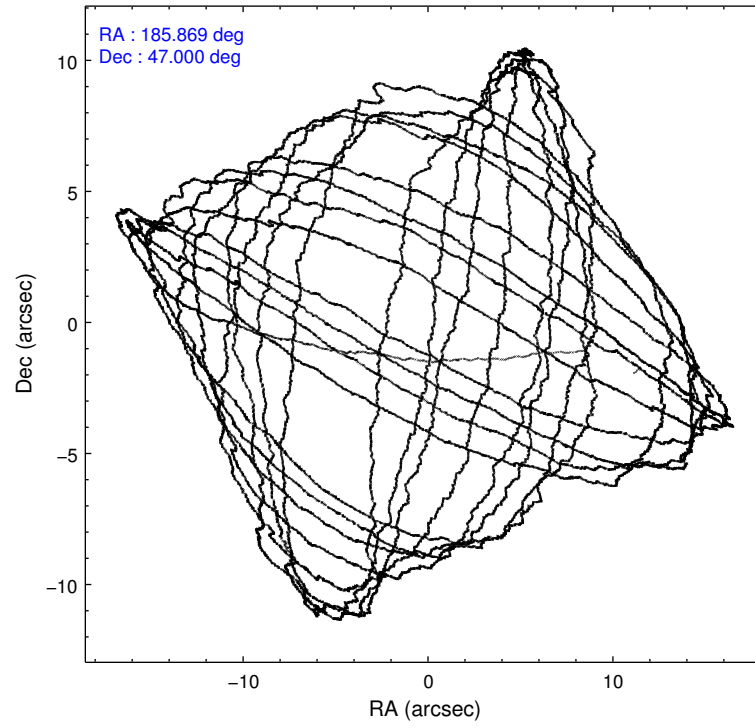
	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	64413	62222	63963	87304
rejected events	56783	54799	56261	48592
rejected %	88%	88%	87%	55%

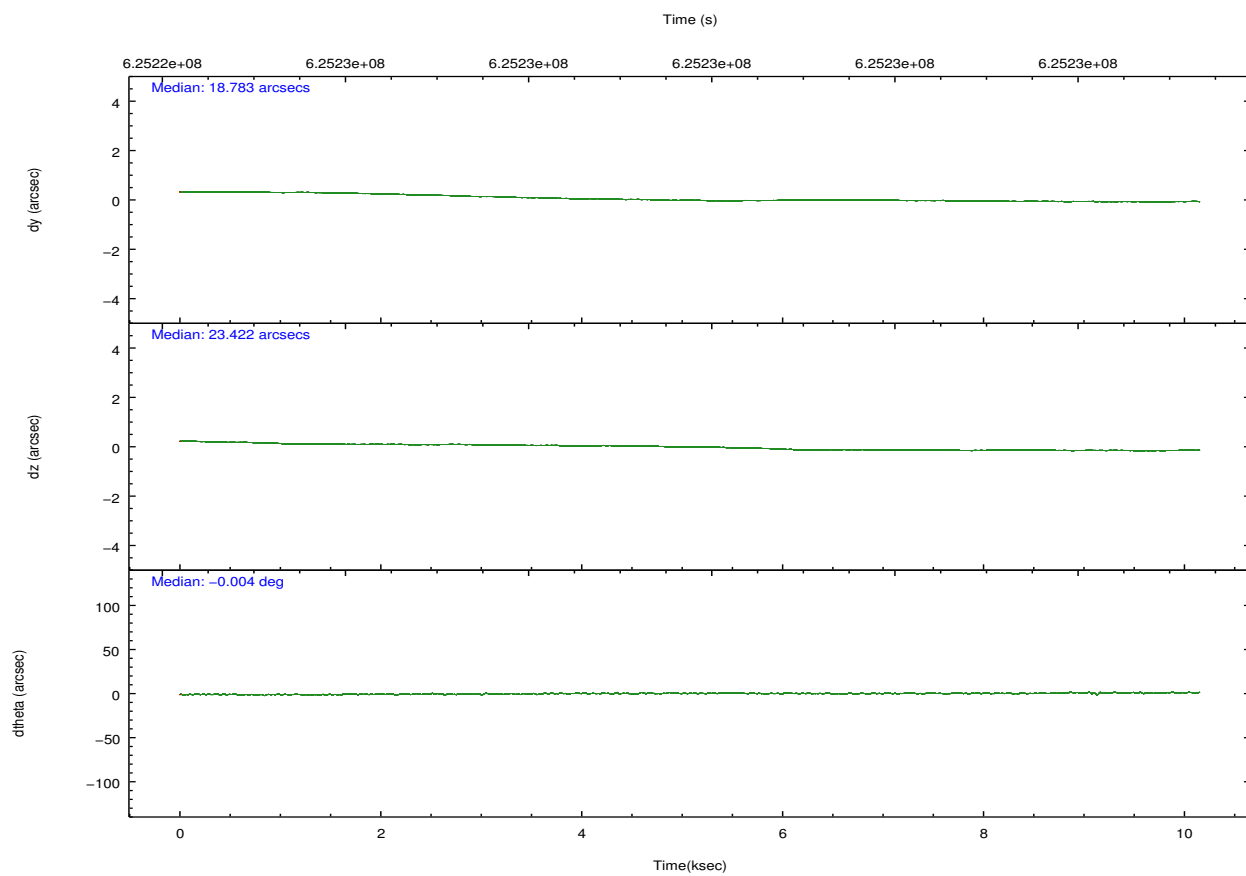
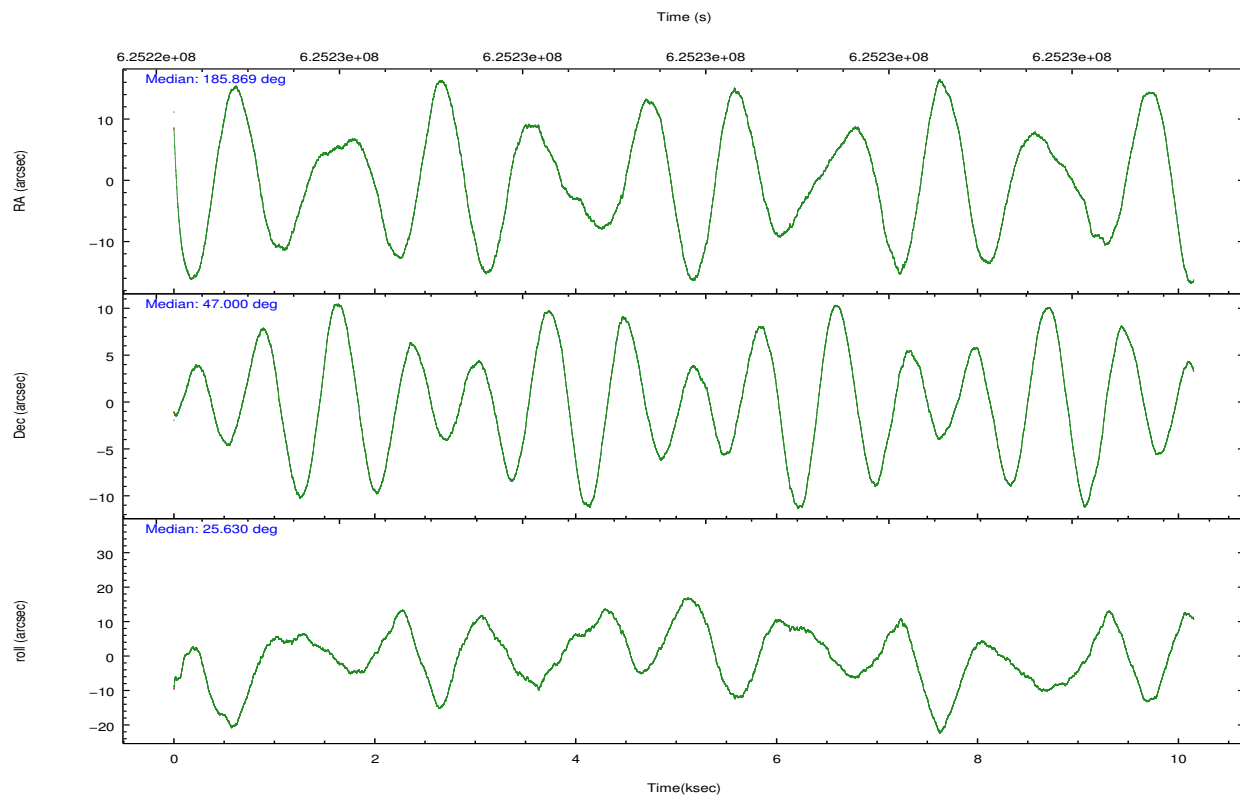
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	2740	2861	2540	3356
	4%	4%	3%	3%
grade 1 events	41	31	37	118
	0%	0%	0%	0%
grade 2 events	1857	1583	1803	8369
	2%	2%	2%	9%
grade 3 events	722	734	773	3142
	1%	1%	1%	3%
grade 4 events	748	788	754	3127
	1%	1%	1%	3%
grade 5 events	2900	3278	3293	8900
	4%	5%	5%	10%
grade 6 events	1565	1467	1837	20740
	2%	2%	2%	23%
grade 7 events	53840	51480	52926	39552
	83%	82%	82%	45%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-2367	ACIS-2367	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	185.847132	185.8693560743449	Subarray requested	NONE	NONE
[deg] Pointing Dec	46.977300	47.00018188742291	Alternating exposures requested	N	N
[deg] Pointing Roll	25.501915	25.64230148445991	[s] Primary exposure time	0.000000	3.1
[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)	625224826.184000	625223057.12898			
Observation start date	2017-10-24T09:32:37	2017-10-24T09:04:17			
[s] Observation end time (MET)	625234826.184000	625235725.61722			
Observation end date	2017-10-24T12:19:17	2017-10-24T12:35:25			
Read mode	TIMED	TIMED			

2.3 Aspect



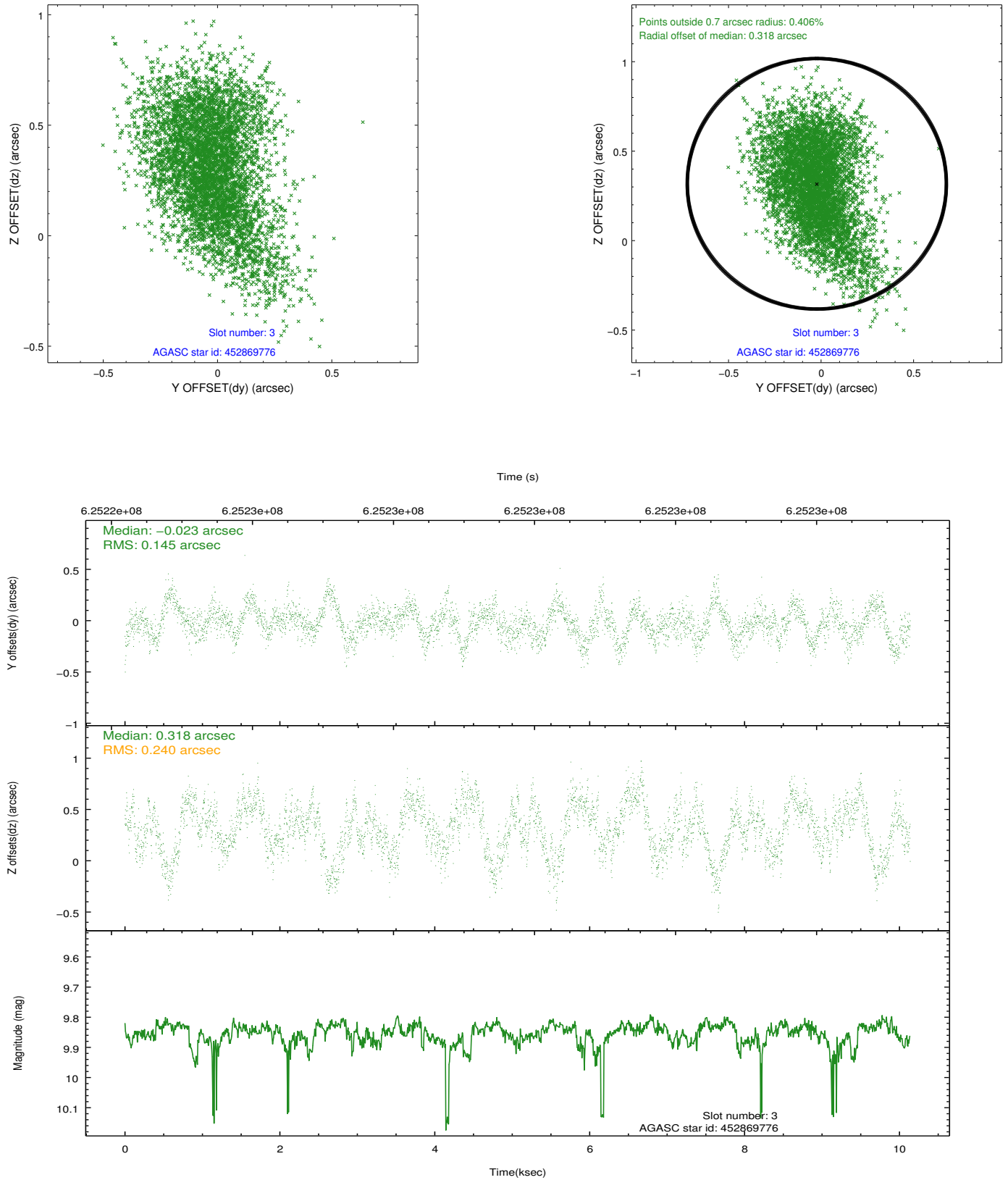


Slot Statistics

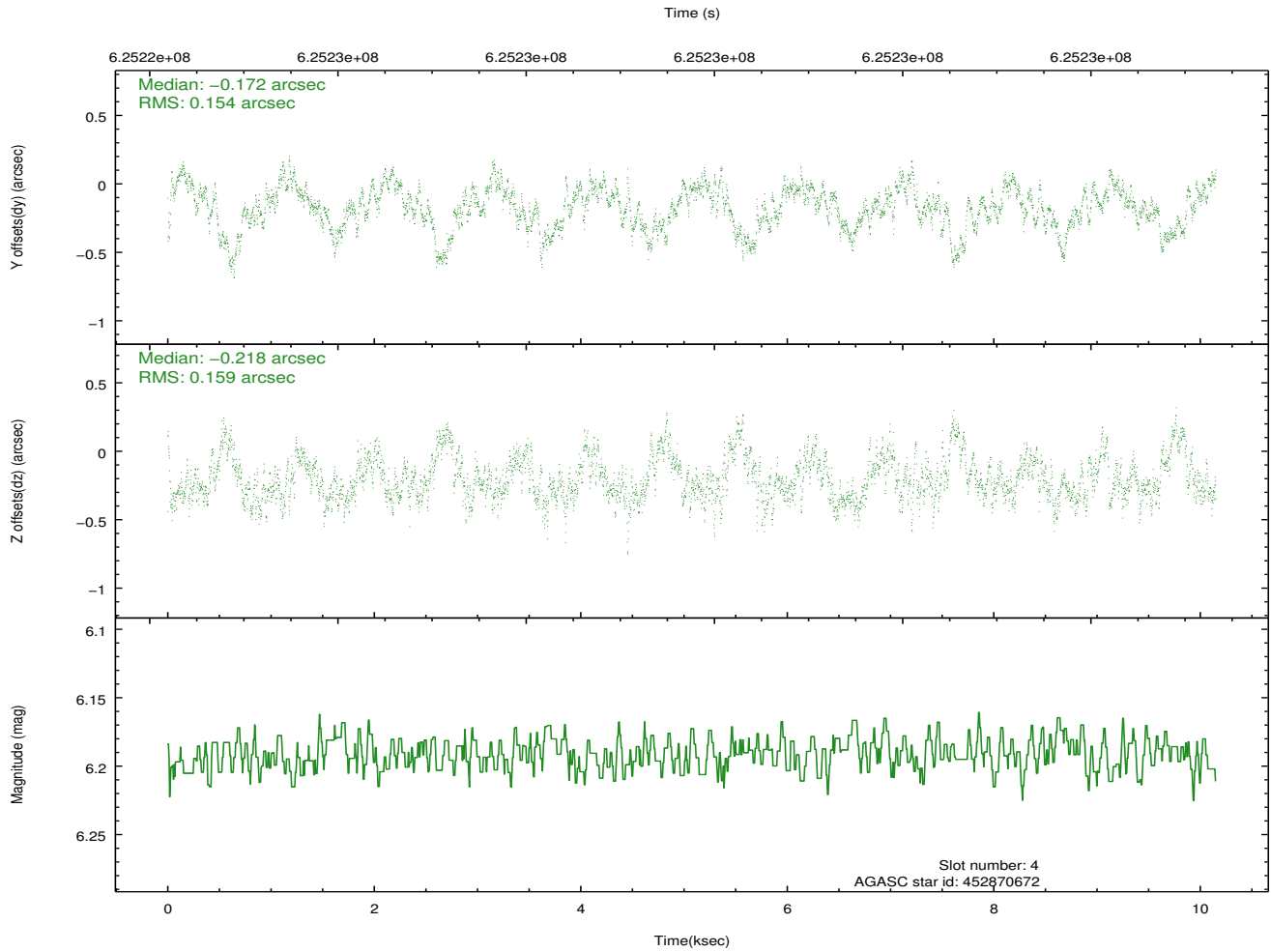
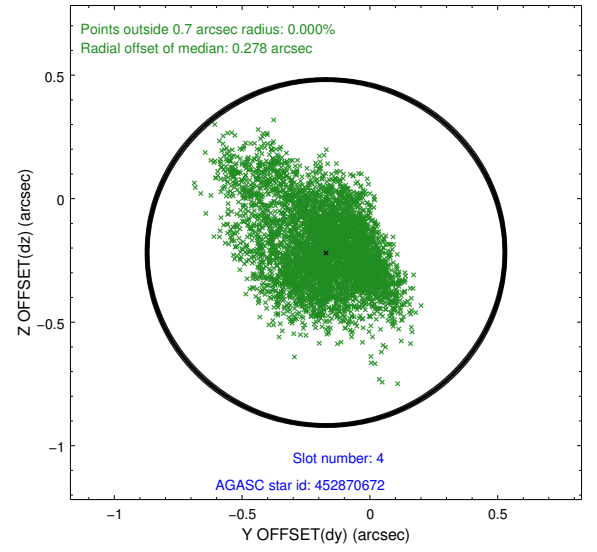
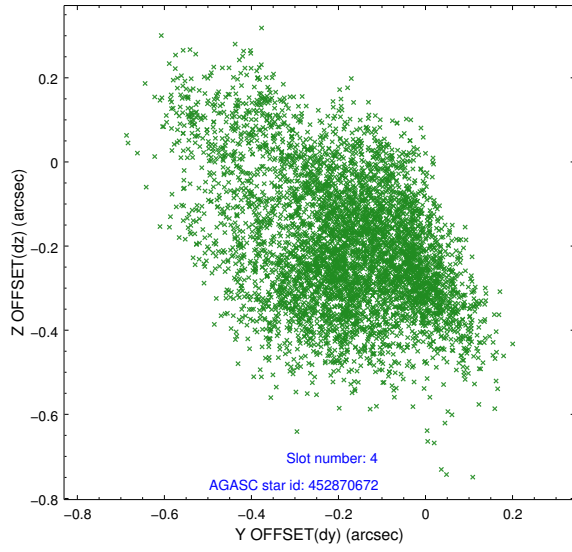
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.95	2476	-0.216	-0.127	0.018	0.030	0.000000	0.000000	-772.15	-1745.14
1	FID		ACIS-S-4	7.05	2477	0.493	0.139	0.013	0.026	0.000000	0.000000	2141.60	163.07
2	FID		ACIS-S-5	7.06	2477	-0.305	-0.002	0.014	0.023	0.000000	0.000000	-1824.41	157.18
3	GUIDE	used	452869776	9.85	4930	-0.023	0.318	0.294	0.500	185.329339	46.658315	-1646.89	-482.25
4	GUIDE	used	452870672	6.19	4953	-0.172	-0.218	0.224	0.406	185.484369	47.182204	-484.14	1049.13
5	GUIDE	used	452993112	9.27	4946	0.555	-0.268	0.203	0.341	186.957232	46.814807	2226.13	-1687.93
6	GUIDE	used	452998528	9.24	4949	-0.343	0.161	0.185	0.329	186.808546	46.891729	2008.79	-1283.52
7	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00

2.4 Star Slots

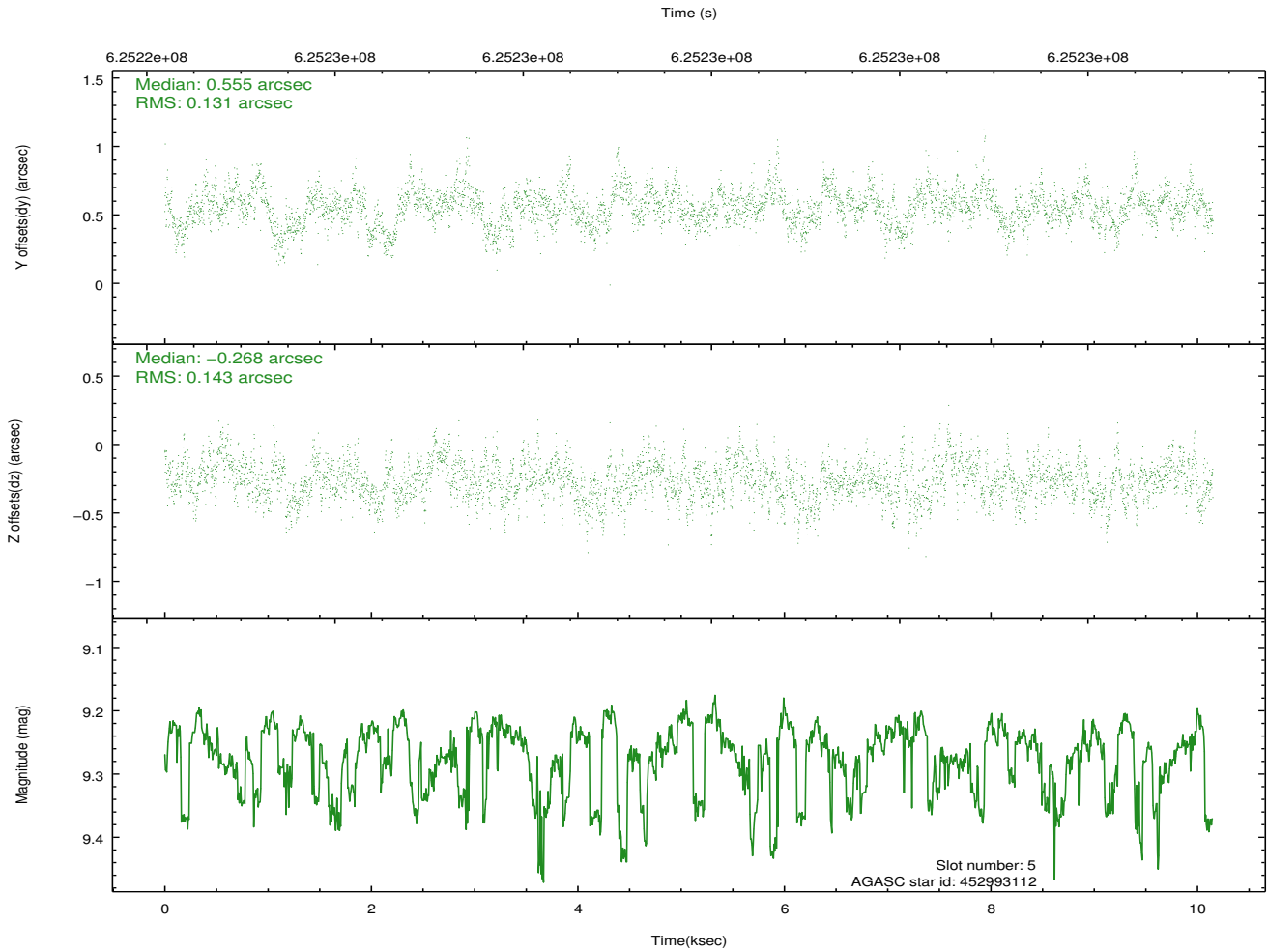
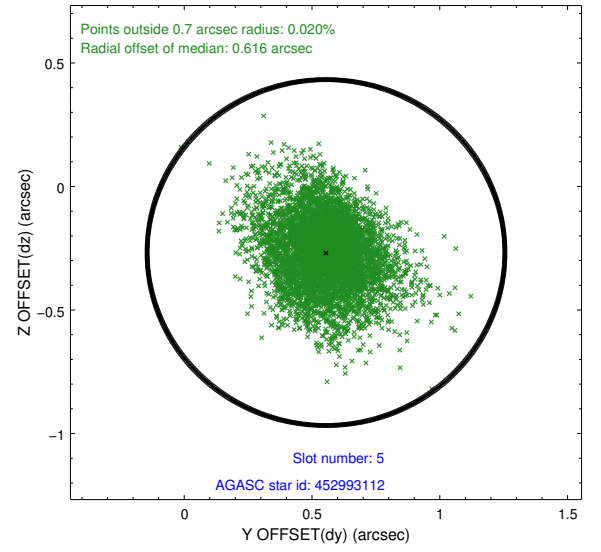
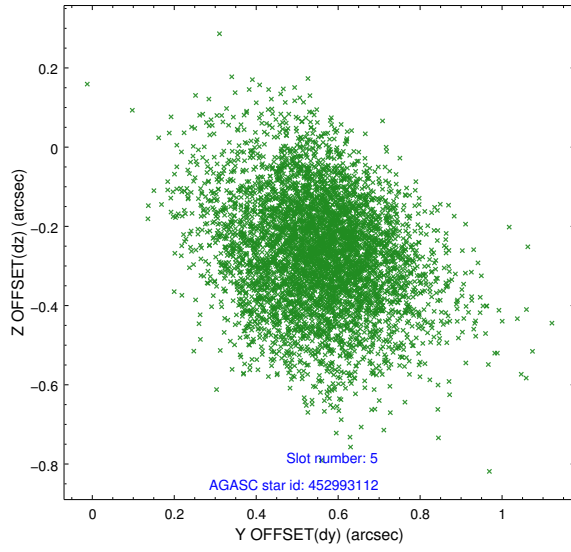
2.4.1 Slot 3



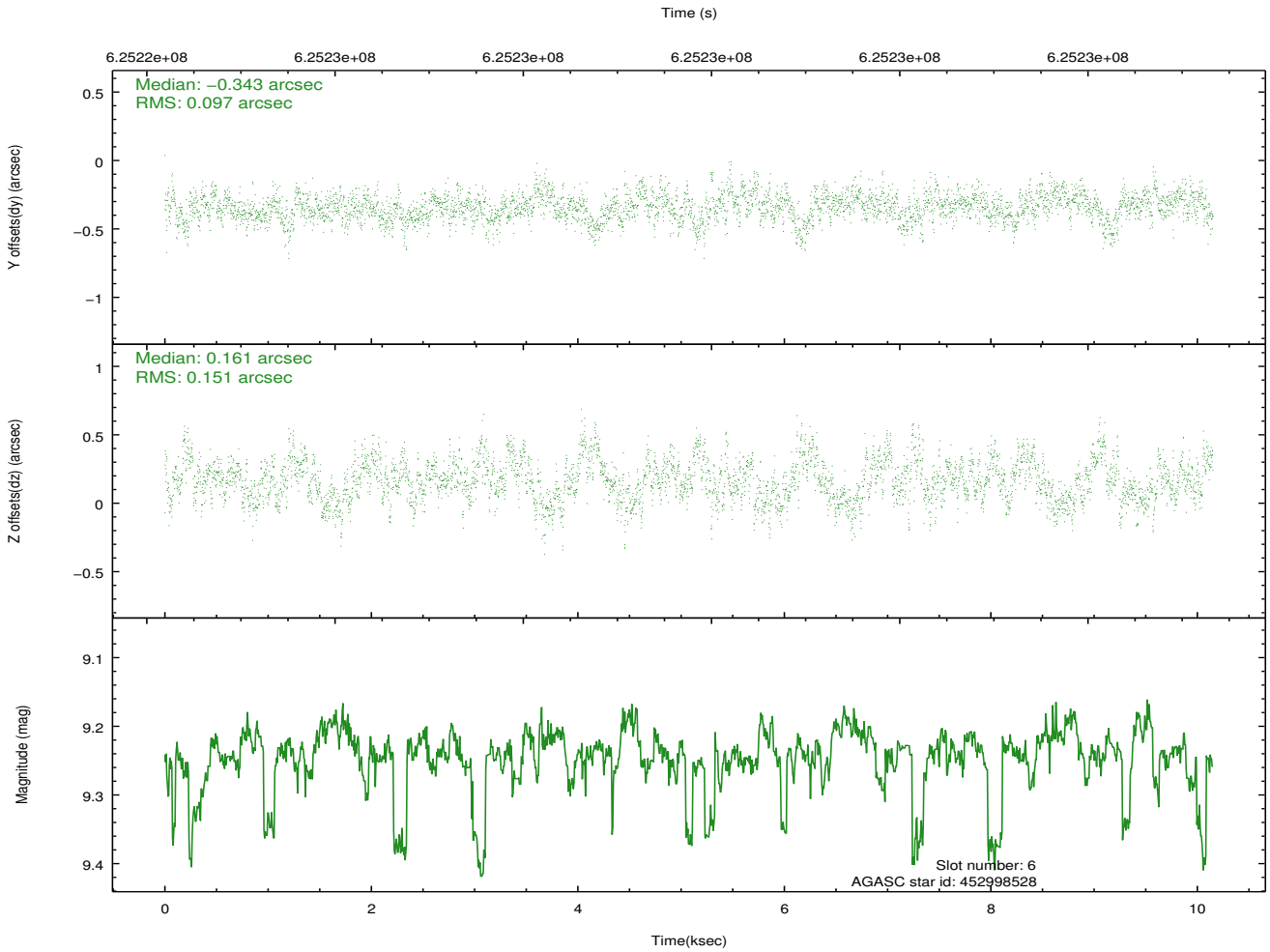
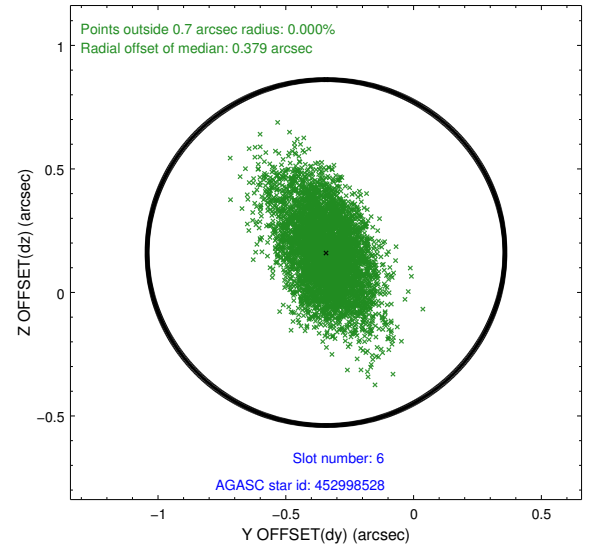
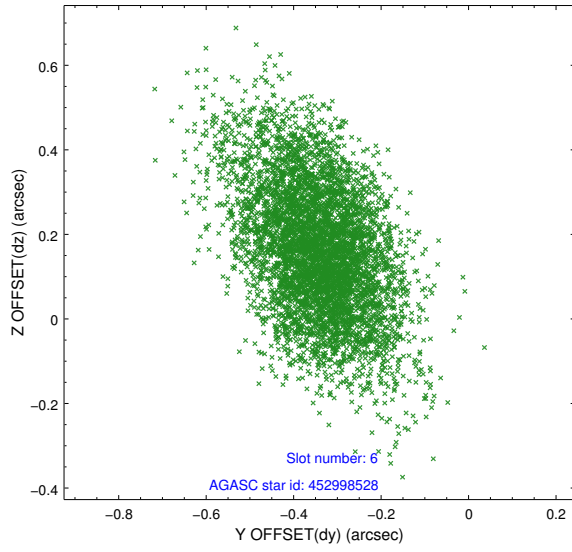
2.4.2 Slot 4



2.4.3 Slot 5

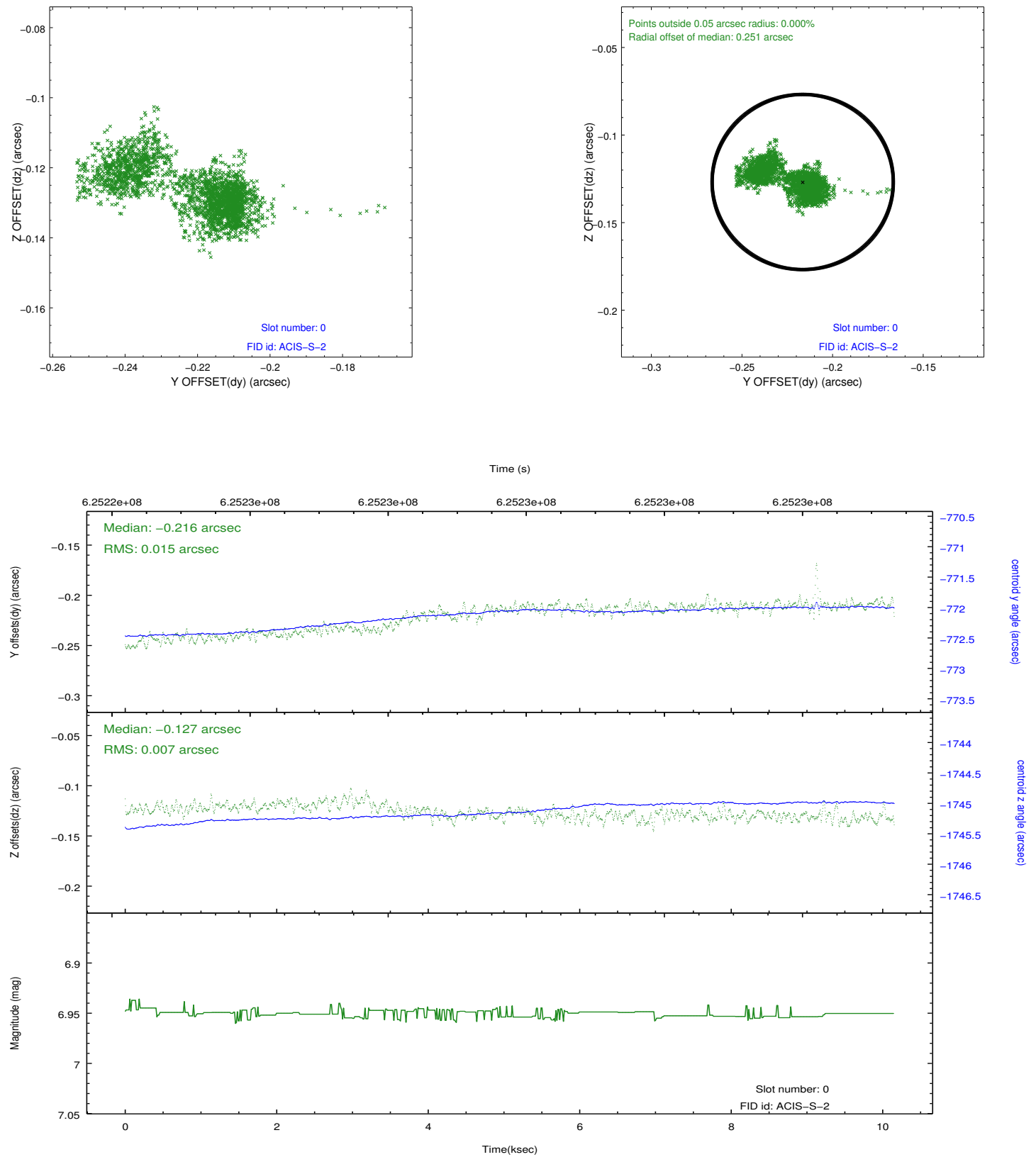


2.4.4 Slot 6

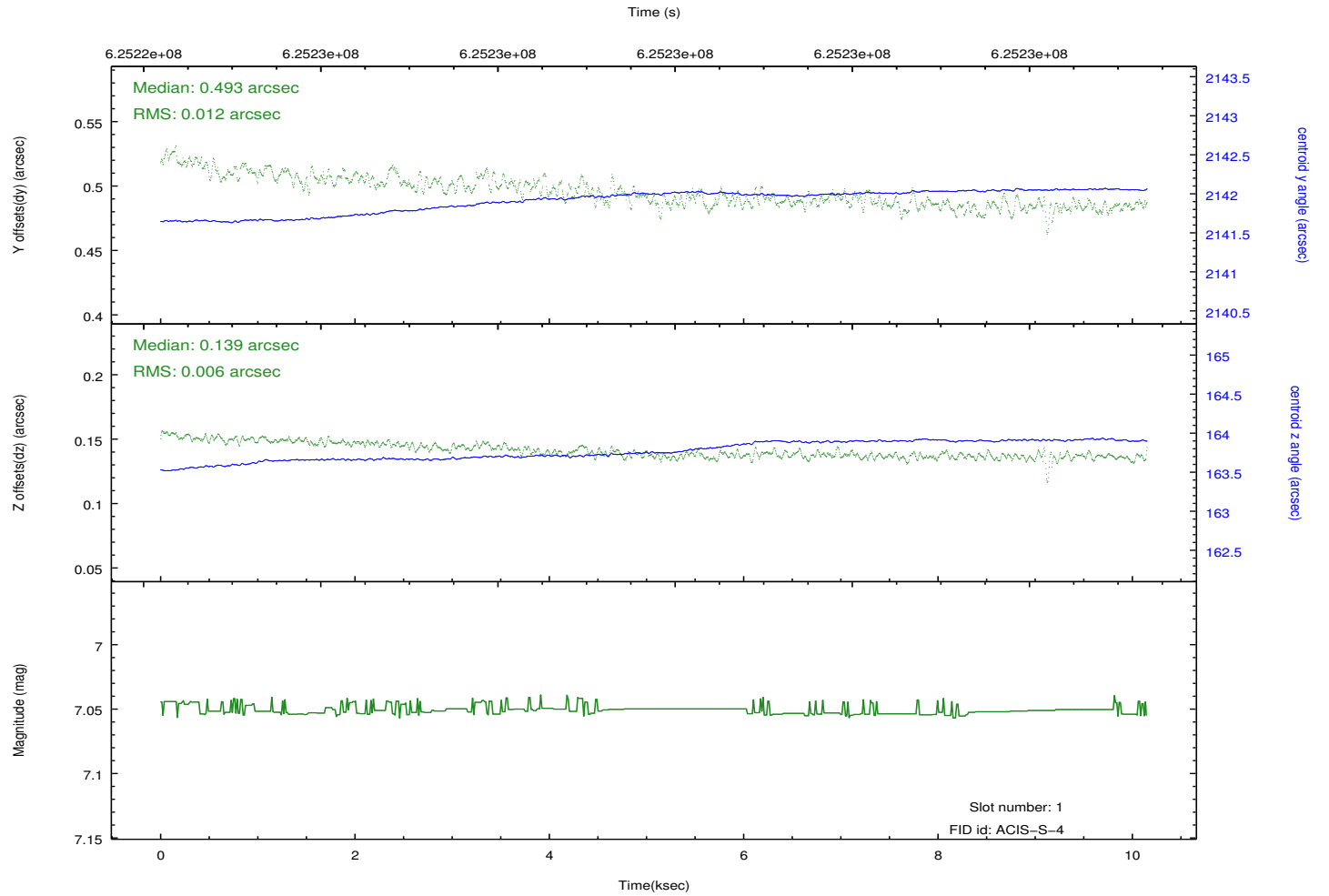
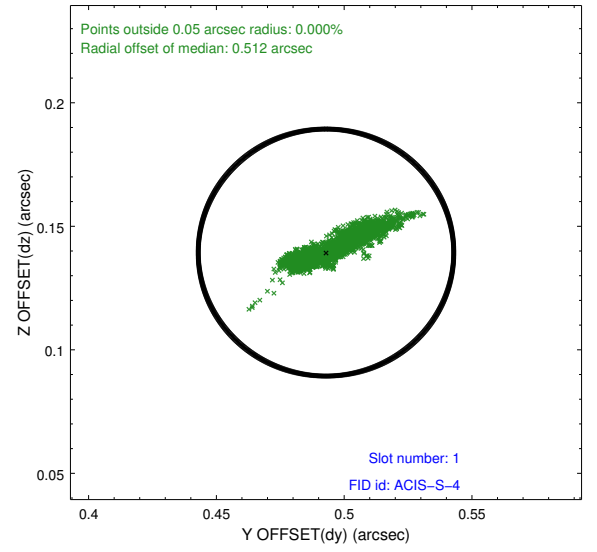
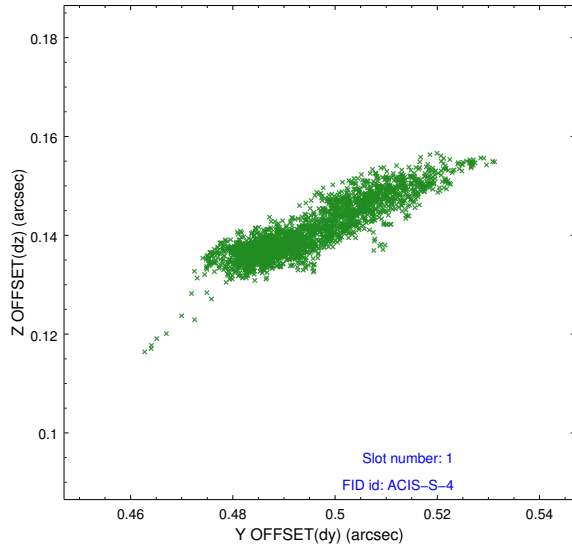


2.5 FID Slots

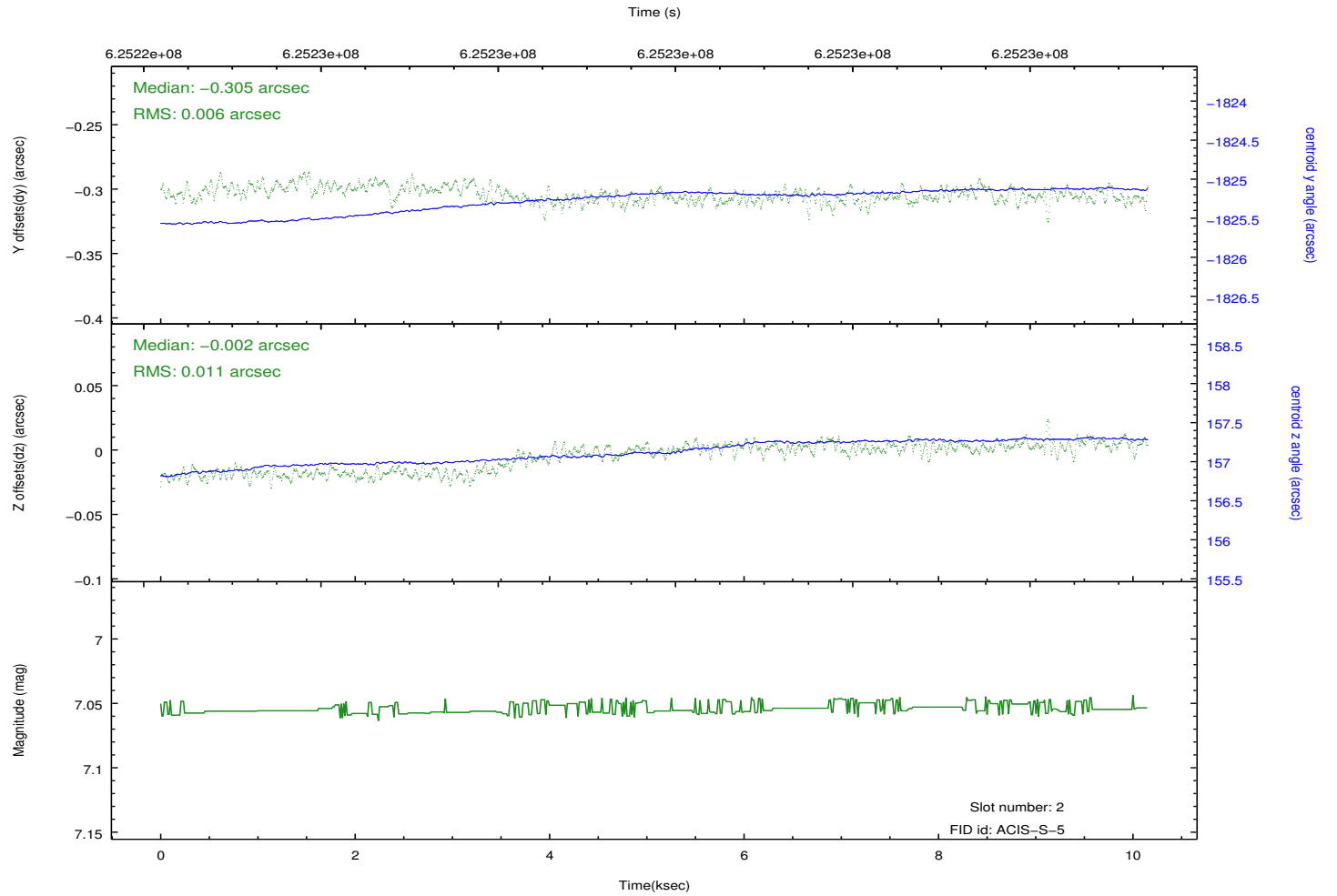
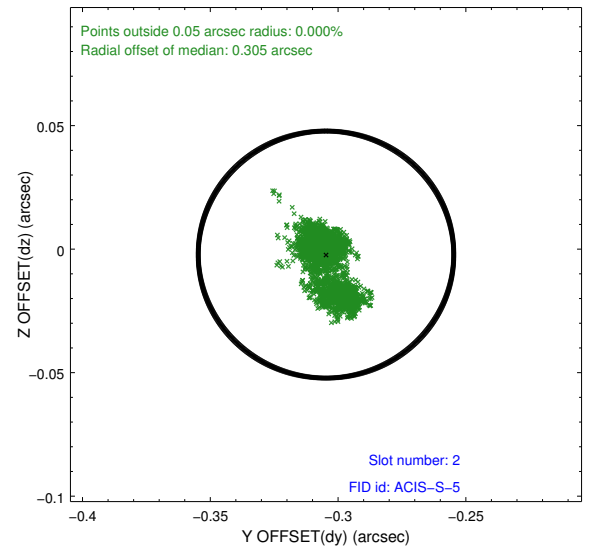
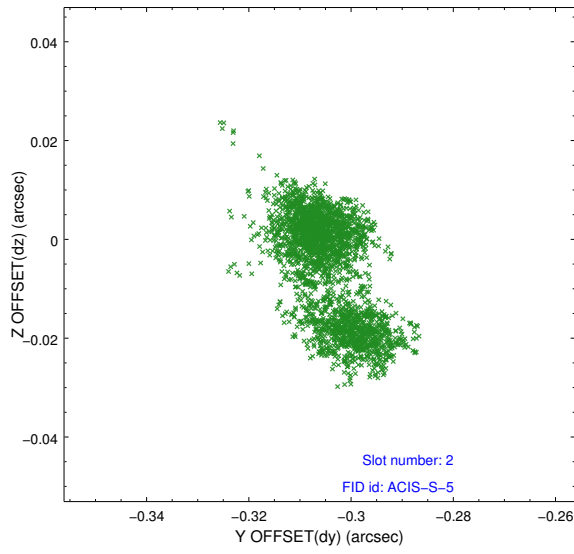
2.5.1 Slot 0



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)	2017.10.31
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.068800077558

A.2 Comments

The guide star in slot 7 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this guide star from the solution.