

V&V Reference Report

L2 ASCDS Version : 10

Observation 15014 - L2 Version 2
Chandra X-Ray Center

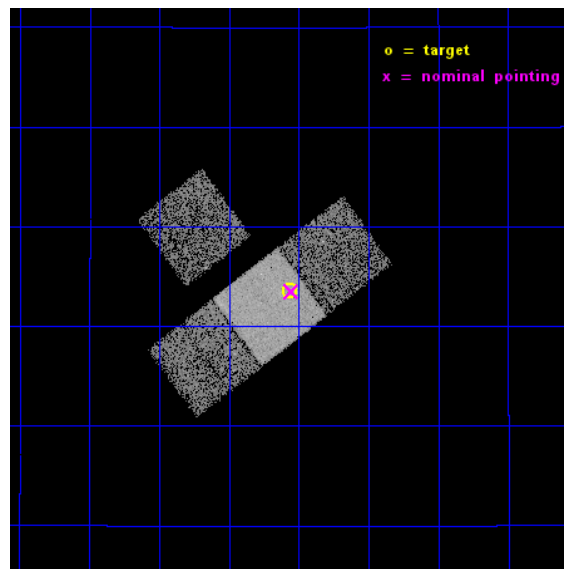
L2 Processing Date : Dec 5 2014

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1 Front

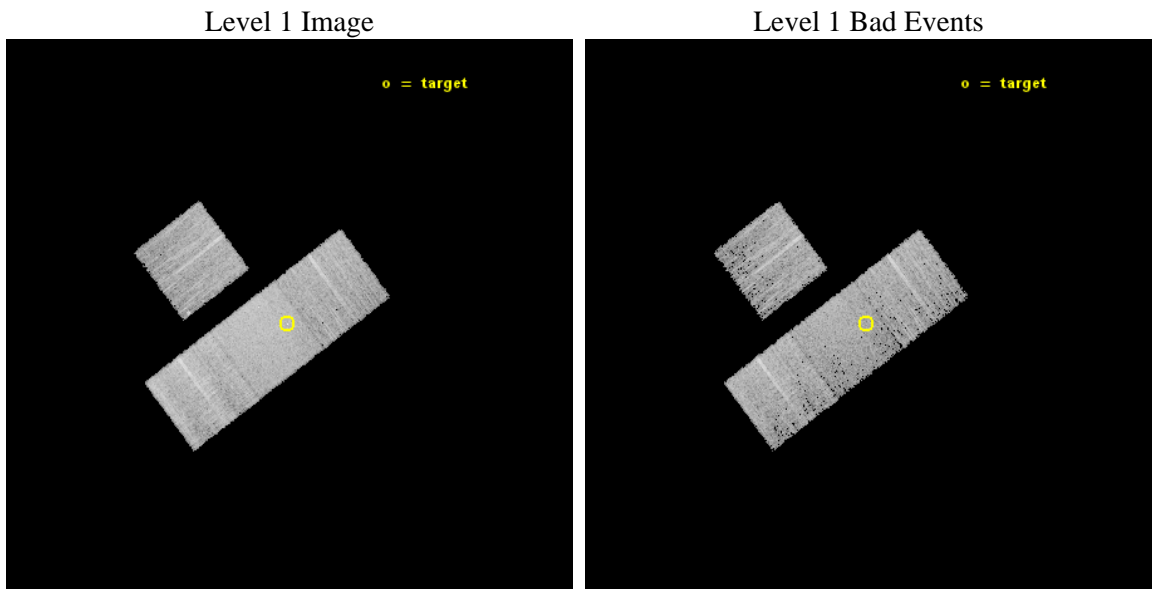
seq_num	702822	Sequence number
obs_id	15014	Observation id
title	The Herschel Legacy of powerful 3C radio galaxies and quasars II: observing Proposal.	Proposal title
observer	Dr Joanna Kuraszekiewicz	Principal investigator
object	3C455	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	343.76625	Observer's specified target RA [deg]
dec_targ	13.226111	Observer's specified target Dec [deg]
ra_nom	343.76328252503	Nominal RA [deg]
dec_nom	13.225018008442	Nominal Dec [deg]
roll_nom	142.95739204678	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10078.10007751	Sum of GTIs [s]
livetime	9946.4222806079	Livetime [s]
ontime3	10078.10007751	Sum of GTIs [s]
ontime6	10078.10007751	Sum of GTIs [s]
ontime7	10078.10007751	Sum of GTIs [s]
ontime8	10078.10007751	Sum of GTIs [s]
l2events	44858	Number of level 2 events



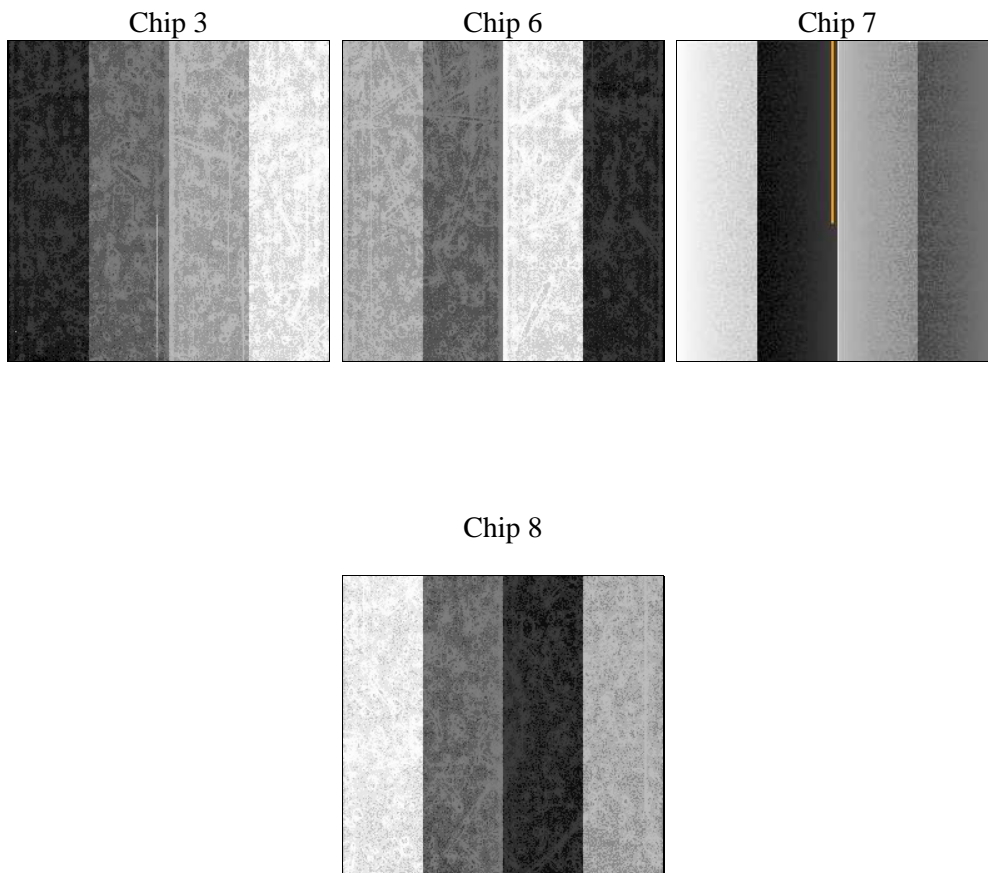
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	10078.10007751	Sum of GTIs [s]
caldbver	4.6.4	 	ontime3	10078.10007751	Sum of GTIs [s]
date	2014-12-06T03:58:36	Date and time of file creation	ontime6	10078.10007751	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	10078.10007751	Sum of GTIs [s]
			ontime8	10078.10007751	Sum of GTIs [s]
			l1events	227392	Number of level 1 events

2.1.4 Events

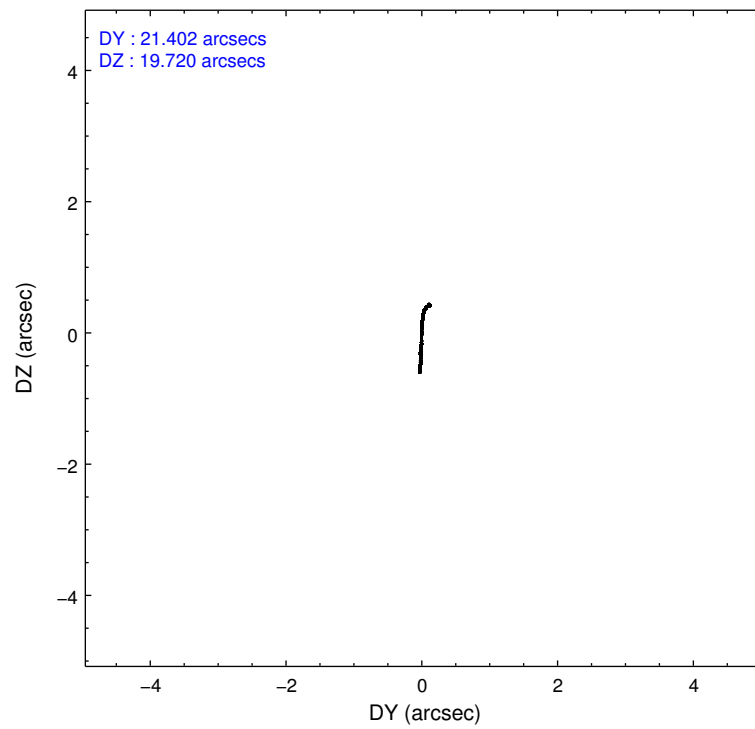
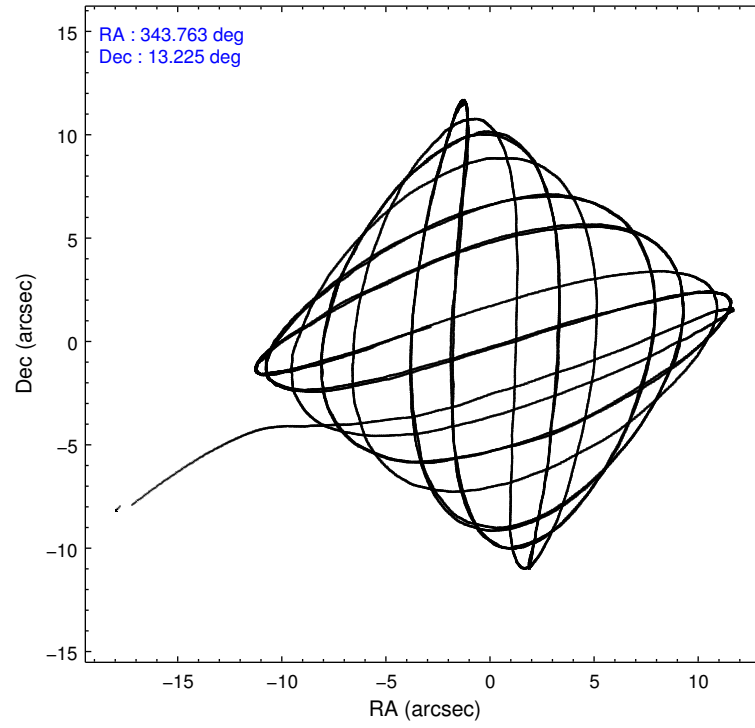
	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	46116	49717	67224	64335
rejected events	40568	43560	38096	47412
rejected %	87%	87%	56%	73%

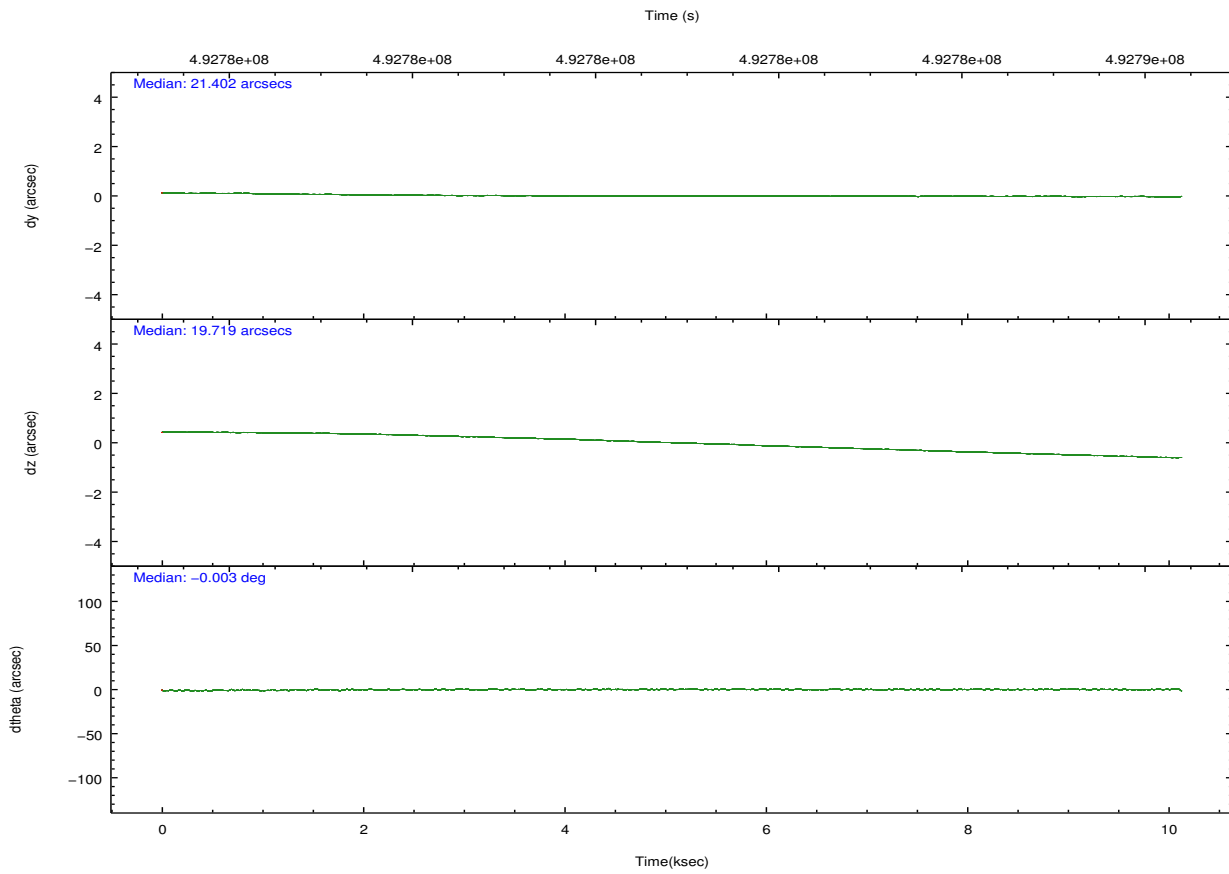
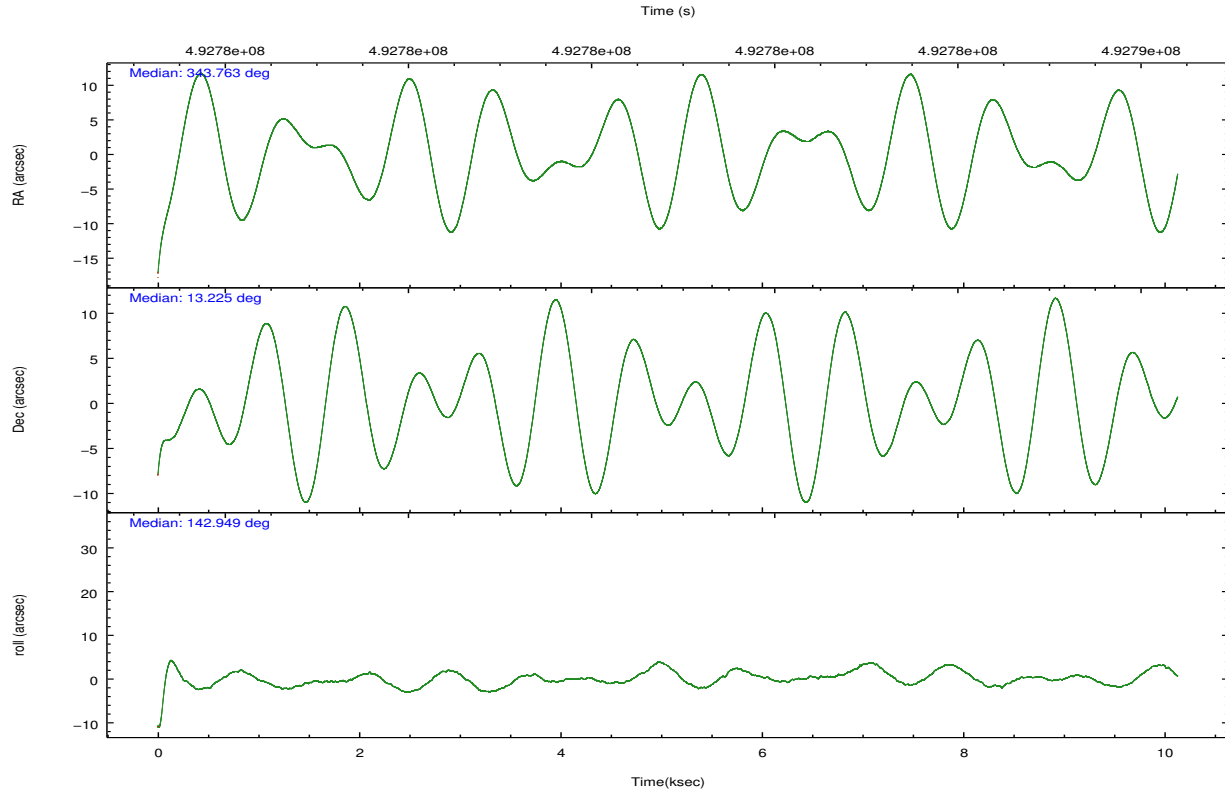
	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	2095	2128	2576	4974
	4%	4%	3%	7%
grade 1 events	25	22	83	39
	0%	0%	0%	0%
grade 2 events	1147	1381	5953	3982
	2%	2%	8%	6%
grade 3 events	573	613	2450	1786
	1%	1%	3%	2%
grade 4 events	582	606	2502	1629
	1%	1%	3%	2%
grade 5 events	2607	2720	6767	3670
	5%	5%	10%	5%
grade 6 events	1152	1430	15657	4558
	2%	2%	23%	7%
grade 7 events	37935	40817	31236	43697
	82%	82%	46%	67%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-3678	ACIS-3678	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	343.791261	343.7632825250332	CCD I2 on	N	N
[deg] Pointing Dec	13.222065	13.22501800844226	CCD I3 on	O1	Y
[deg] Pointing Roll	142.794376	142.9573920467784	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O3	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	O2	Y
[s] Observation start time (MET)	492775901.184000	492774704.49181	CCD S5 on	N	N
Observation start date	2013-08-13T10:10:34	2013-08-13T09:51:44	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	492785901.184000	492786799.49247	On-chip summing requested	N	N
Observation end date	2013-08-13T12:57:14	2013-08-13T13:13:19	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





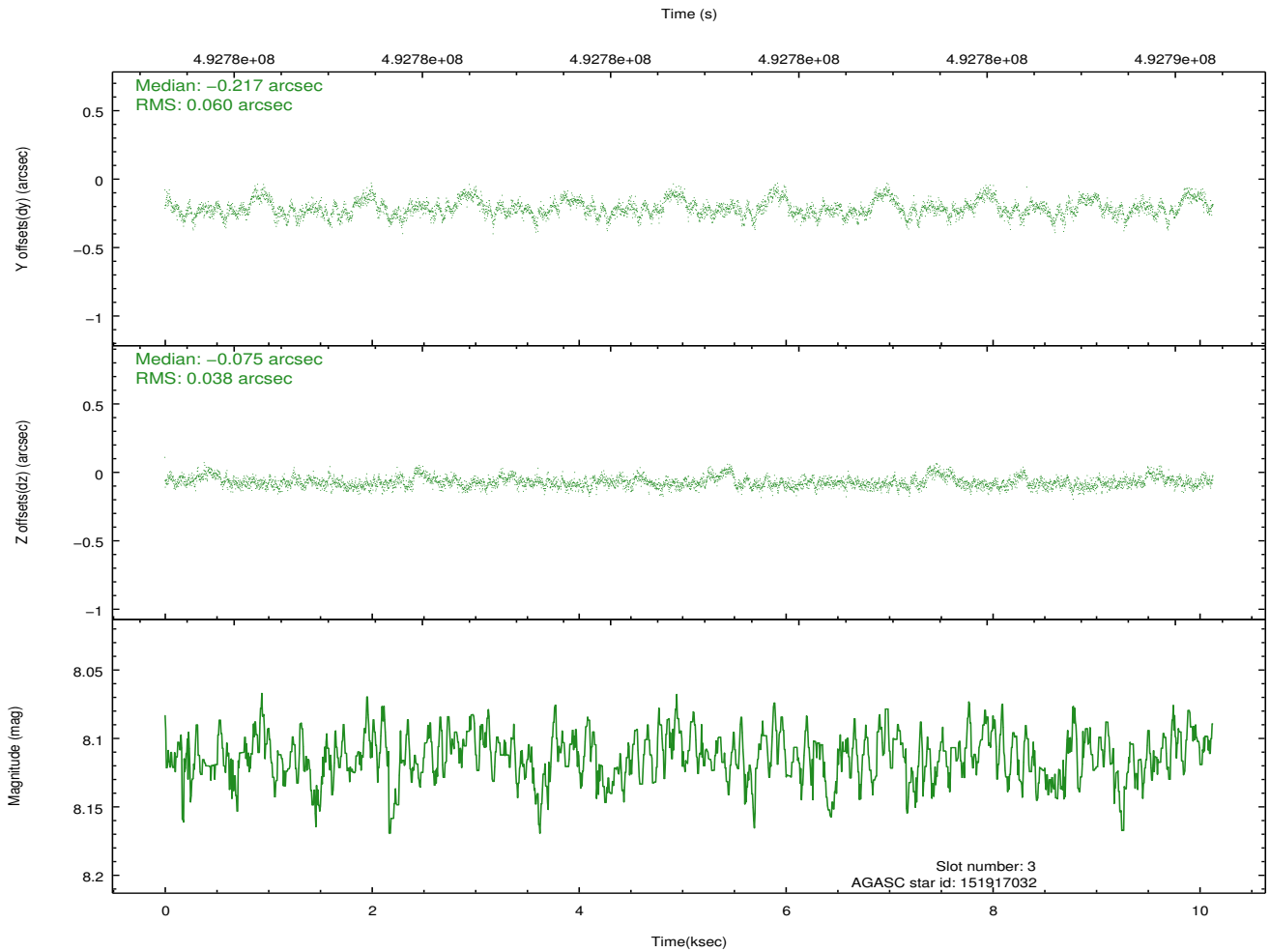
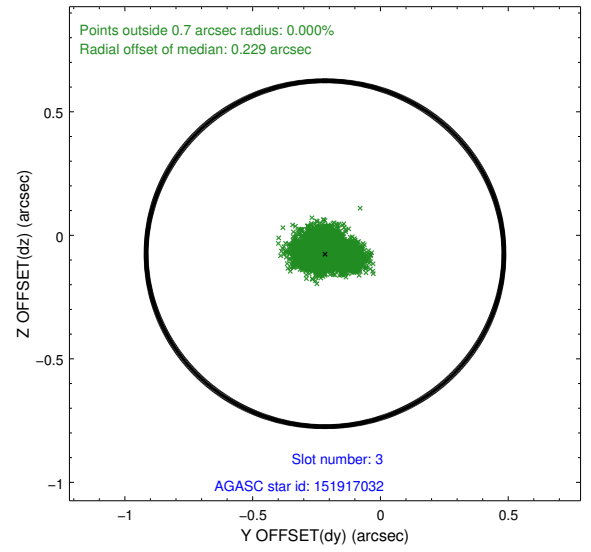
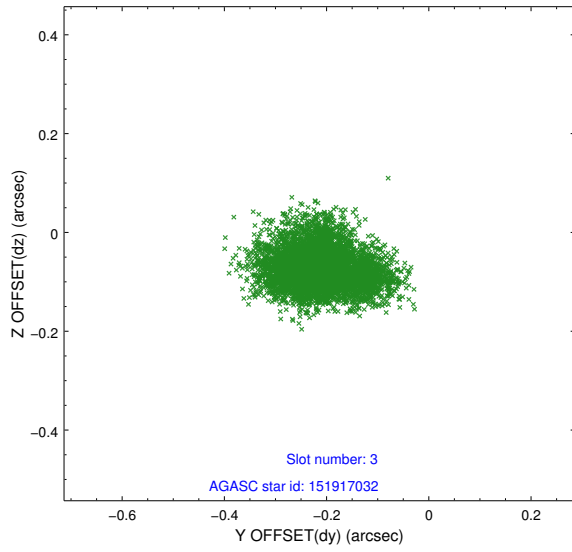
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.99	2471	-0.144	-0.081	0.006	0.009	0.000000	0.000000	-774.74	-1741.22
1	FID		ACIS-S-4	7.07	2471	0.185	0.075	0.007	0.011	0.000000	0.000000	2138.66	166.81
2	FID		ACIS-S-6	7.20	2471	-0.069	0.013	0.008	0.014	0.000000	0.000000	388.04	804.78
3	GUIDE	used	151917032	8.11	4935	-0.217	-0.075	0.076	0.126	343.534935	13.663022	1674.40	-722.19
4	GUIDE	used	151920776	8.50	4931	0.058	0.255	0.089	0.142	344.186383	13.690709	-78.90	-2179.70
5	GUIDE	used	151924320	8.08	4941	0.130	-0.023	0.098	0.143	344.239603	12.861195	-2037.39	82.33
6	GUIDE	used	151926656	7.62	4942	-0.052	0.147	0.065	0.111	344.102914	13.054530	-1236.15	-181.26
7	GUIDE	used	151927656	8.90	4938	0.054	-0.313	0.092	0.150	343.743990	12.555736	-1318.51	2010.81

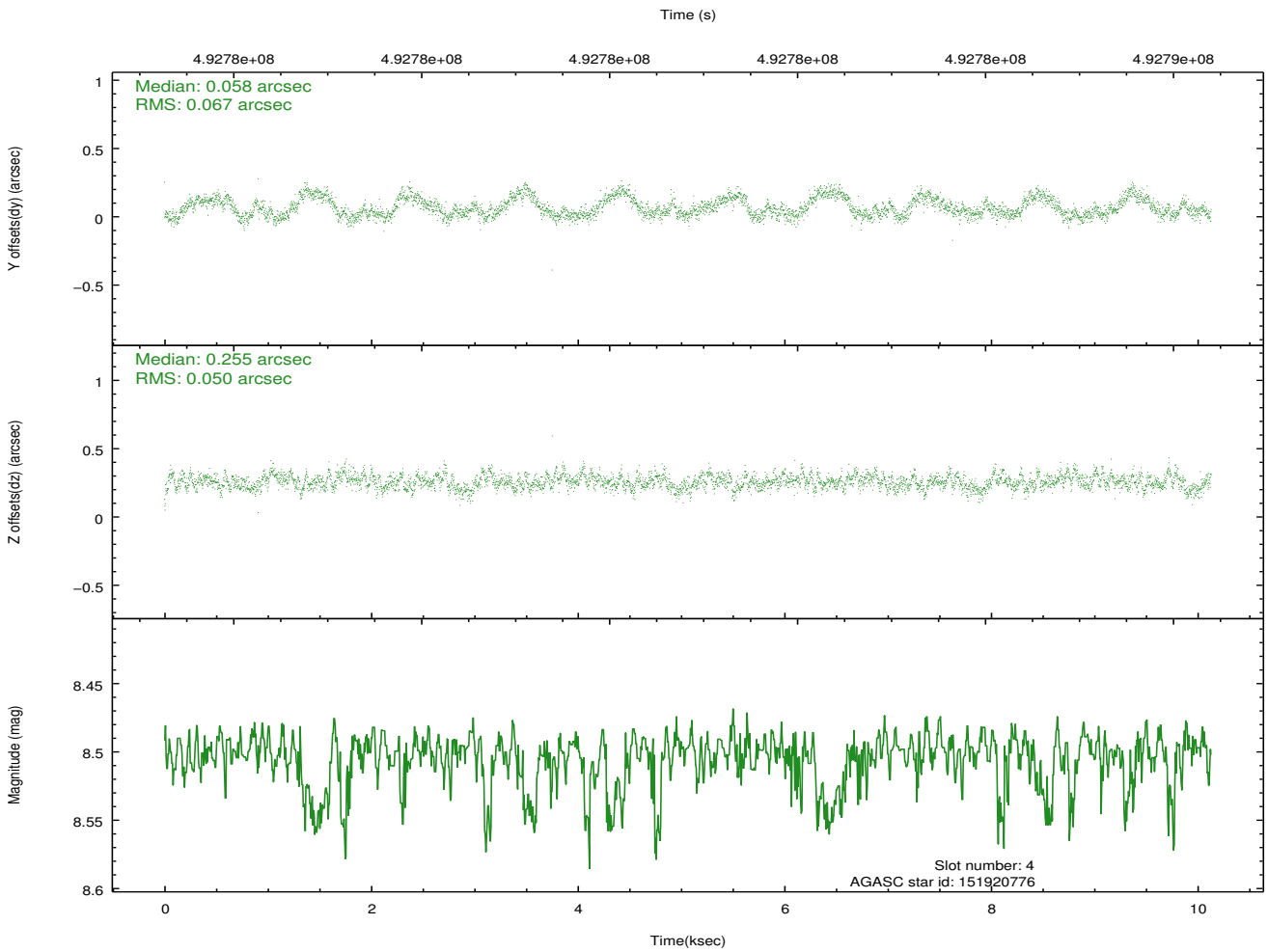
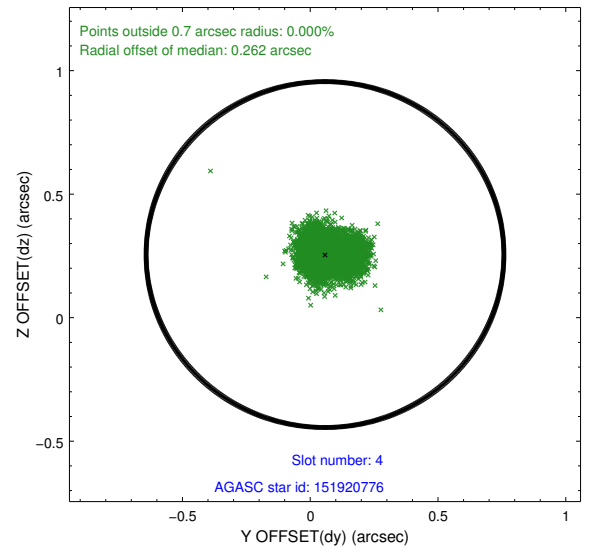
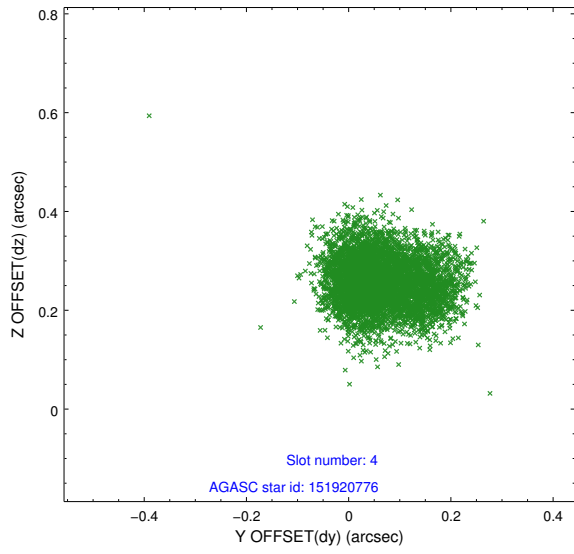
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2.4 Star Slots

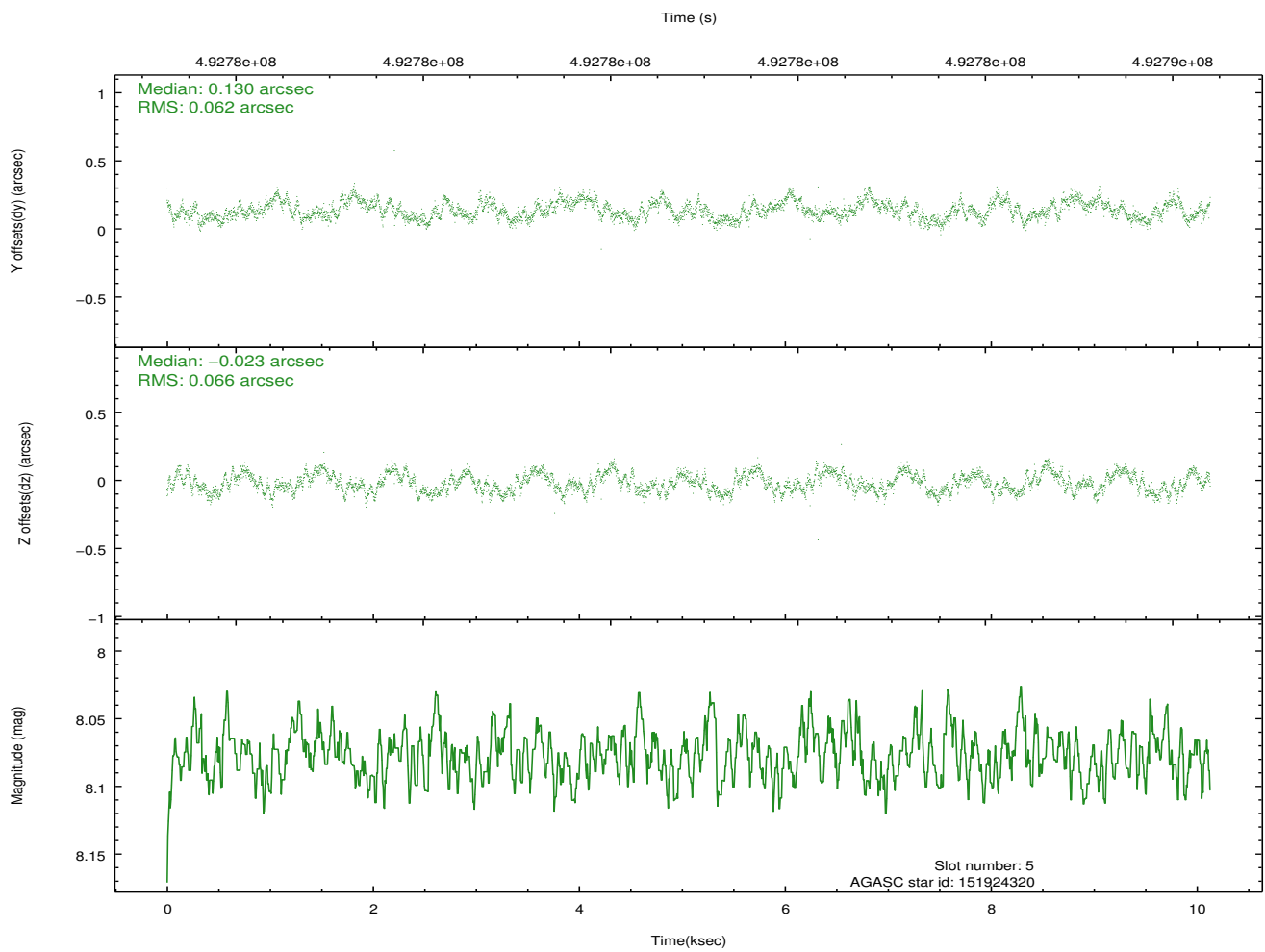
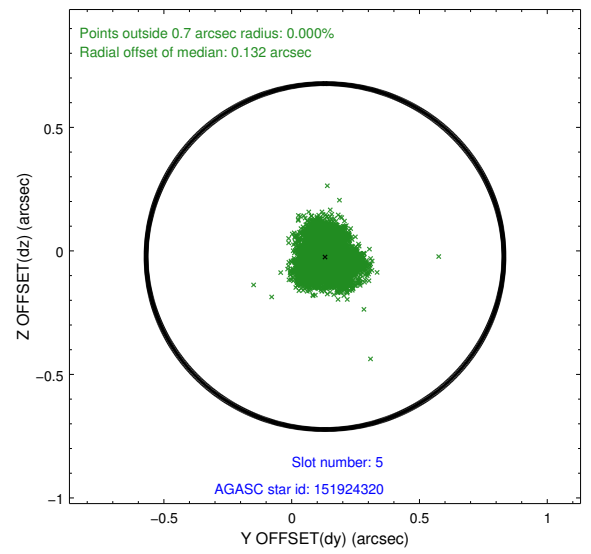
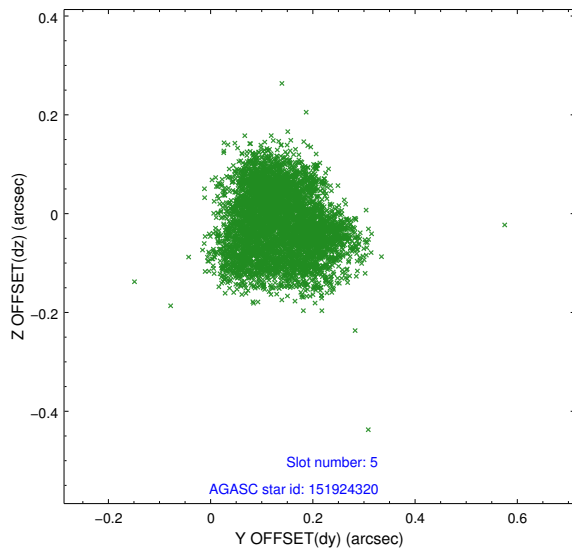
2.4.1 Slot 3



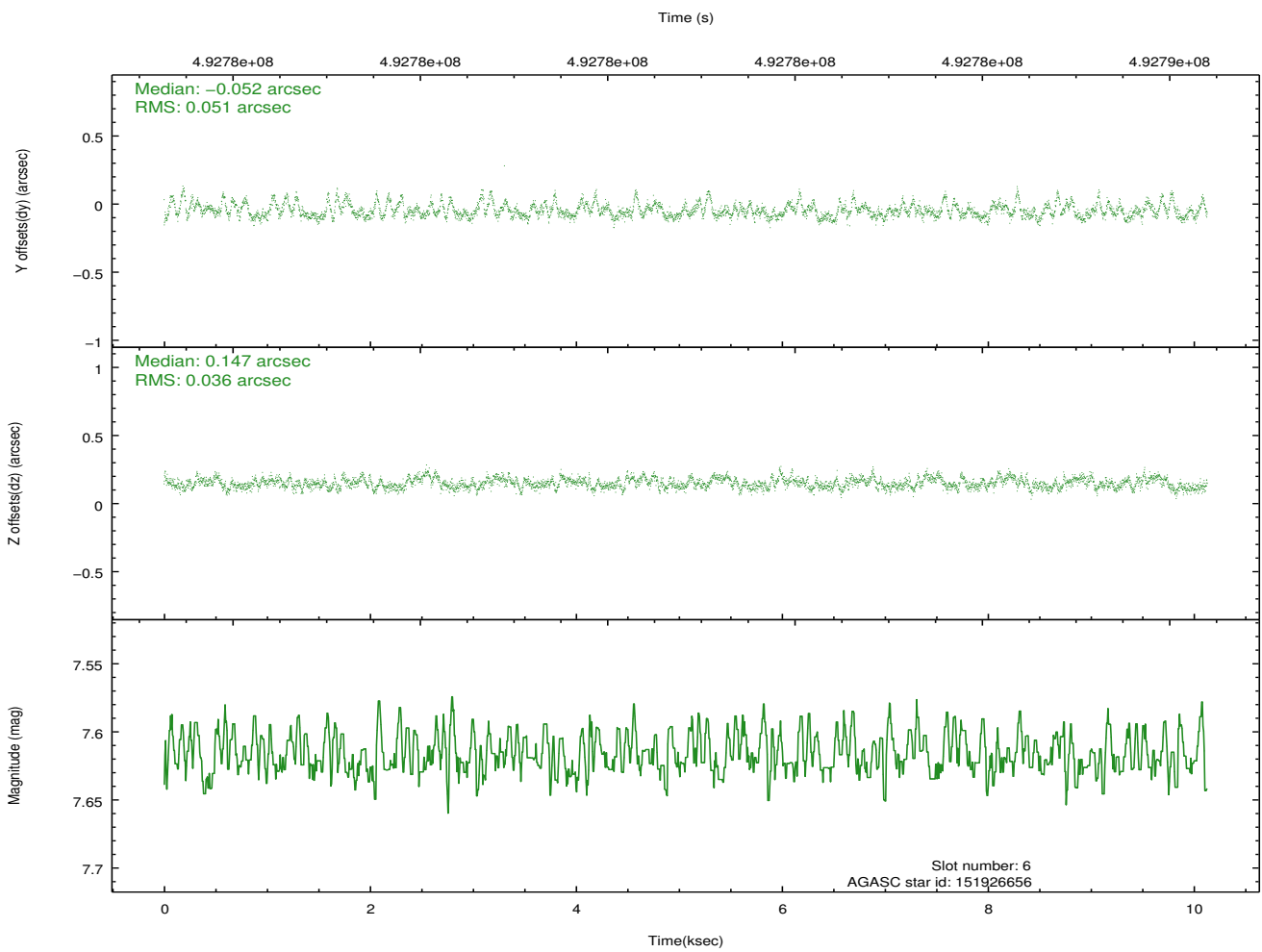
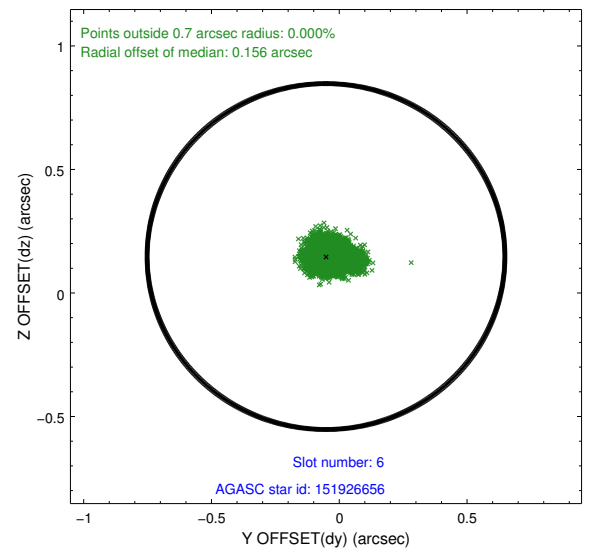
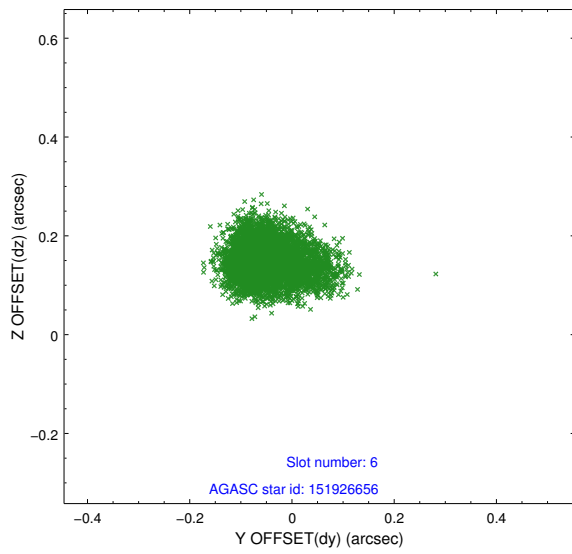
2.4.2 Slot 4



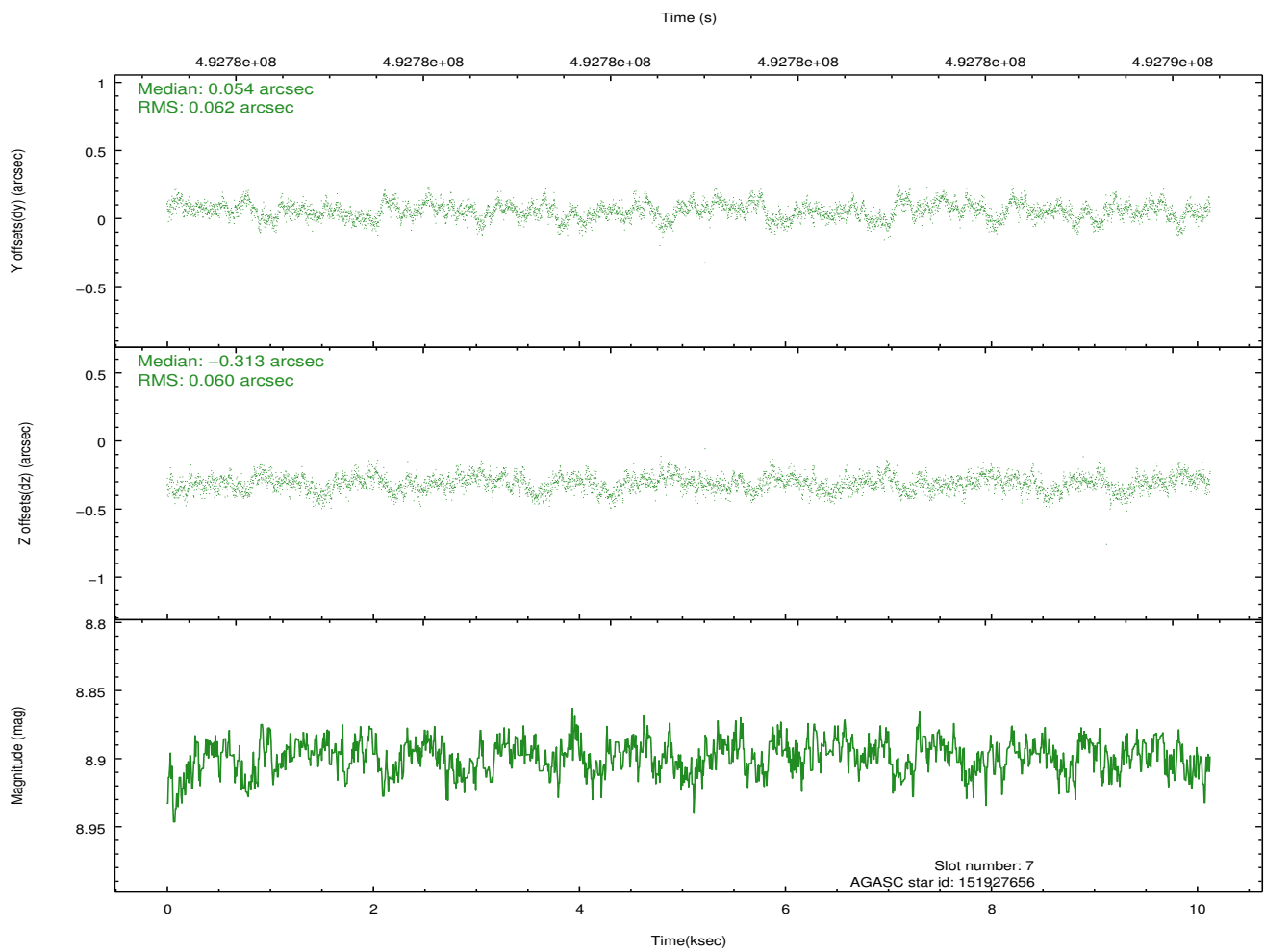
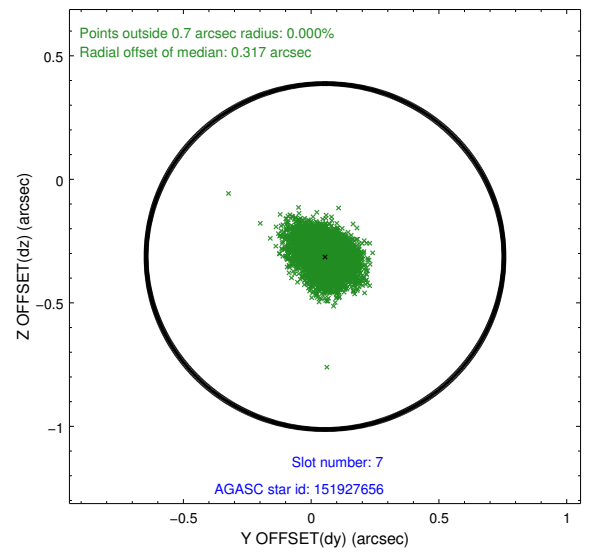
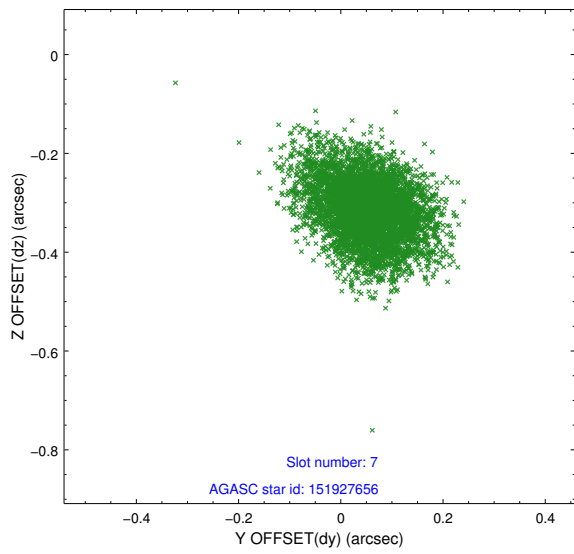
2.4.3 Slot 5



2.4.4 Slot 6

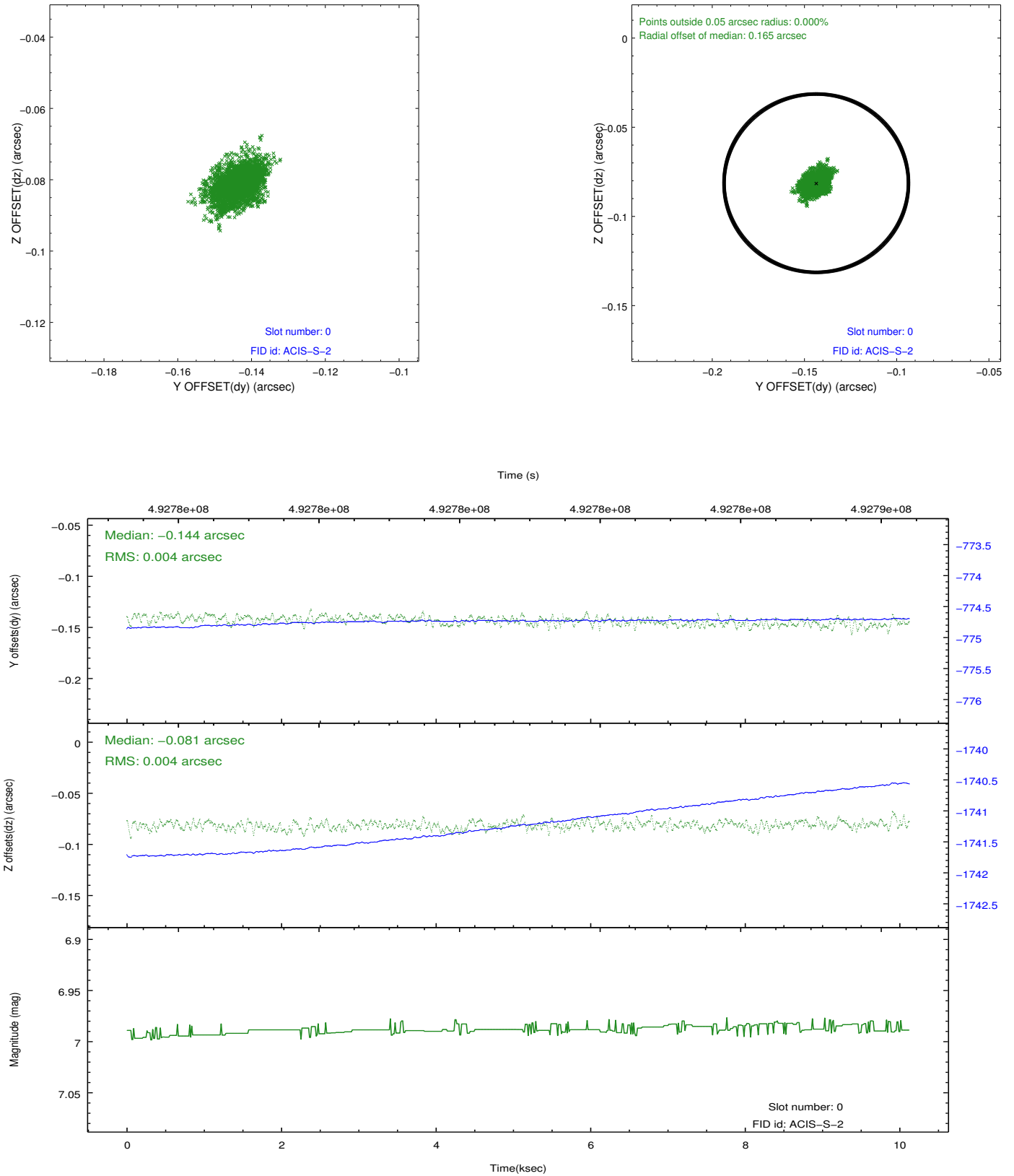


2.4.5 Slot 7

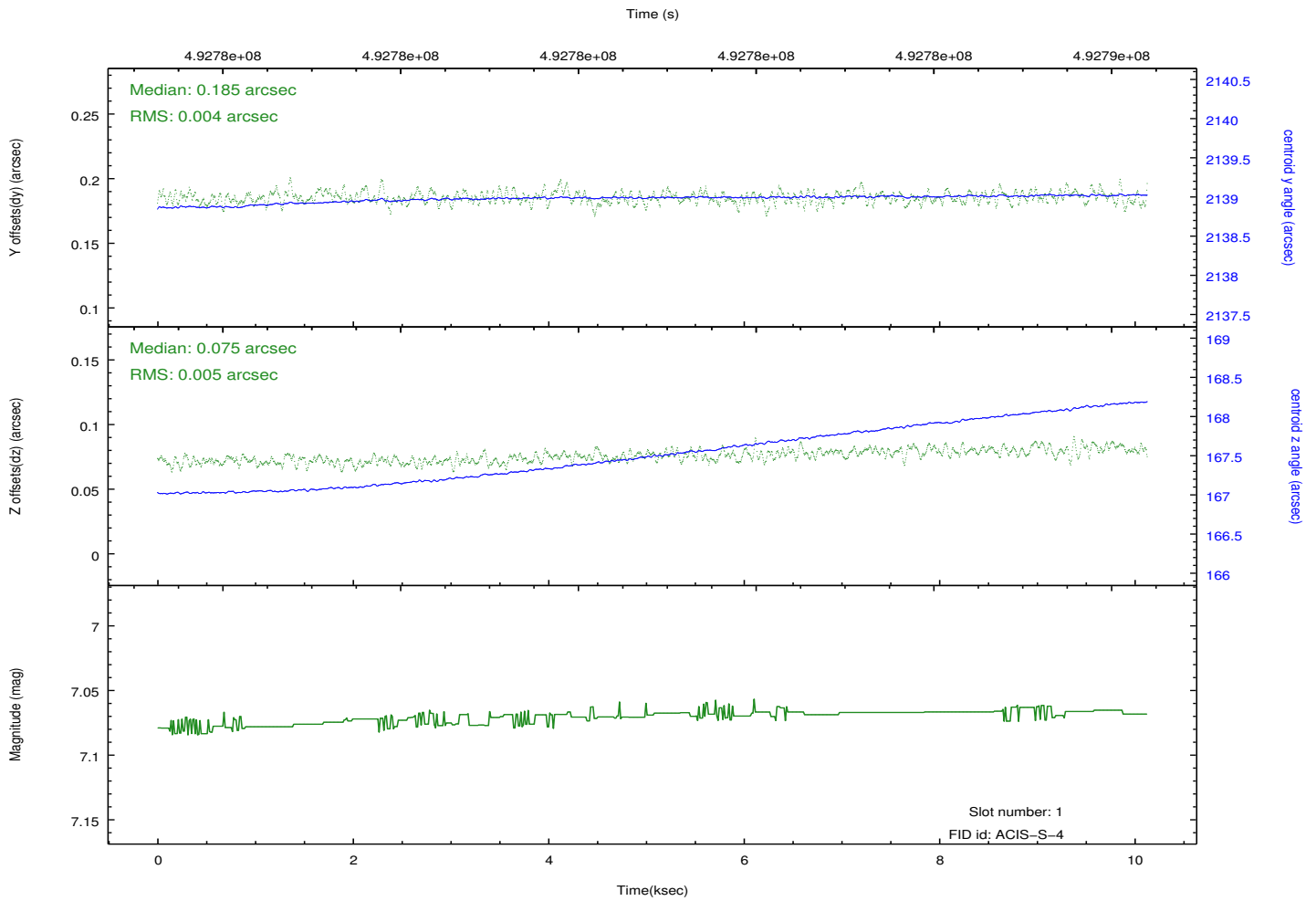
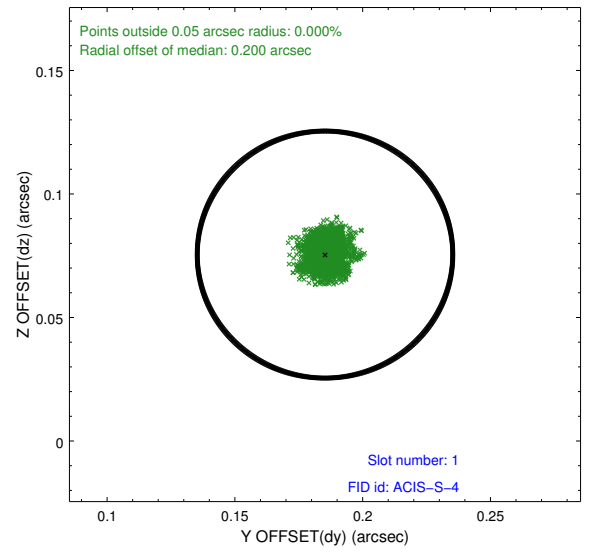
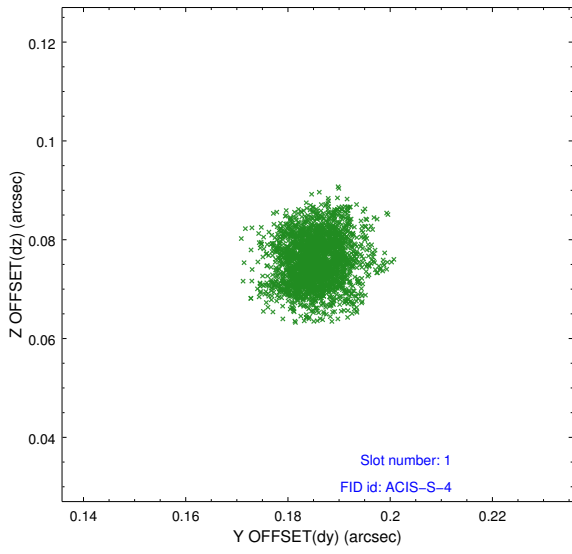


2.5 FID Slots

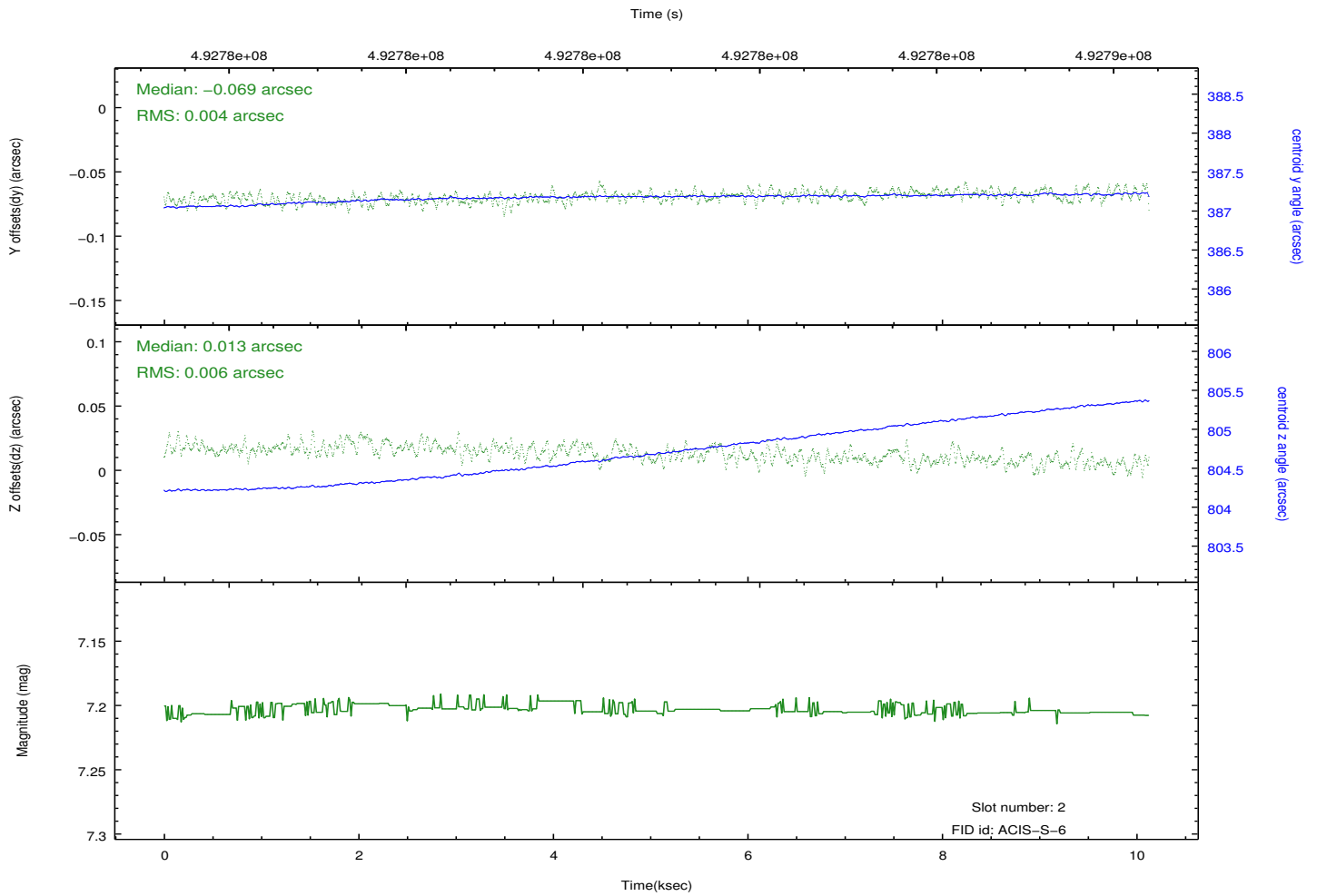
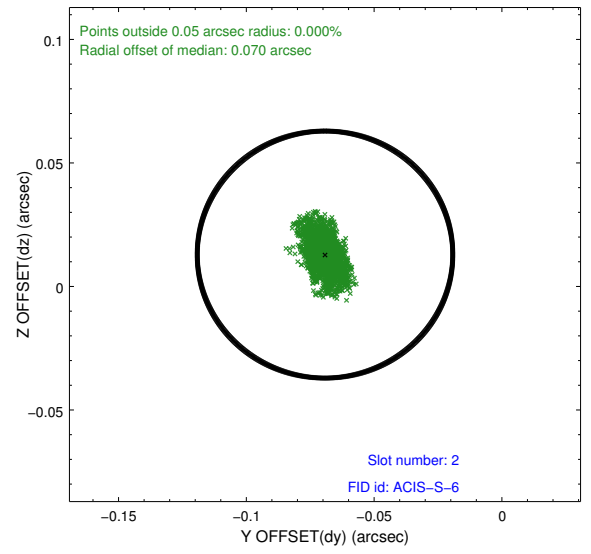
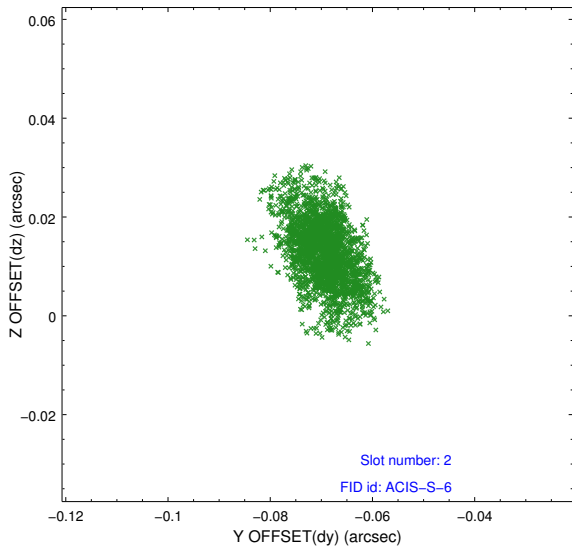
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2014.12.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.07810007751

A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.