

V&V Reference Report

L2 ASCDS Version : 10.5.4

Observation 18246 - L2 Version 1
Chandra X-Ray Center

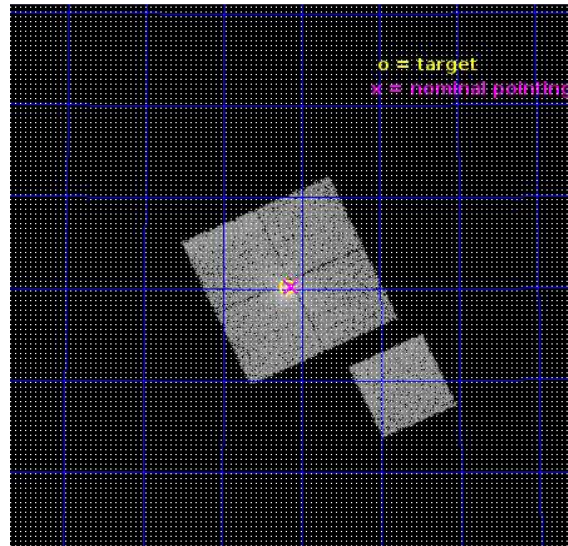
L2 Processing Date : May 16 2017

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1 Front

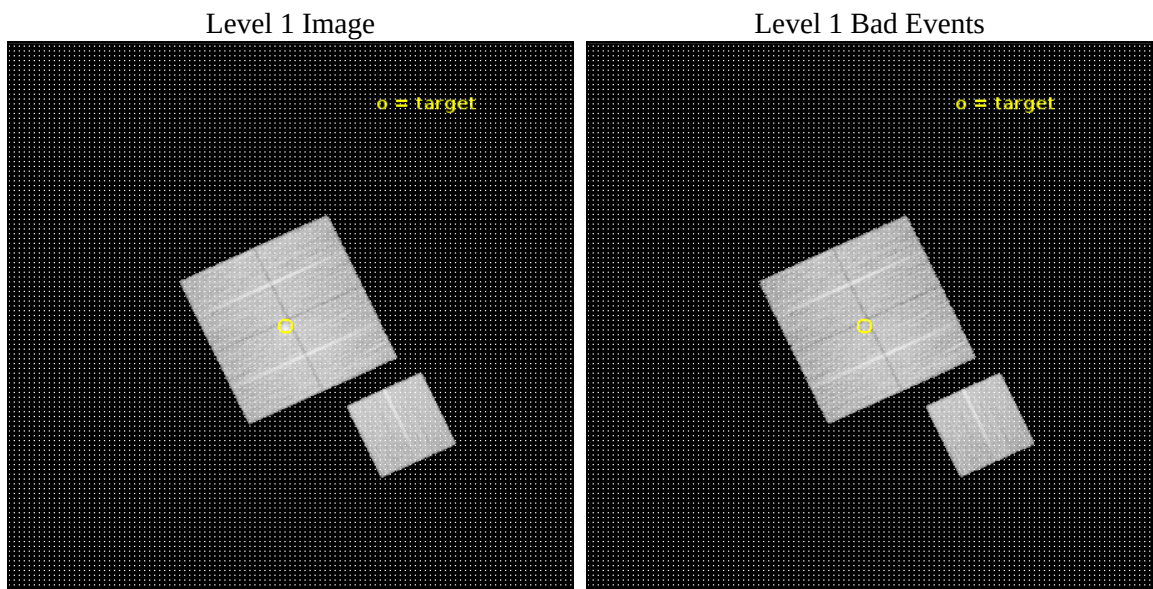
seq_num	801570	Sequence number
obs_id	18246	Observation id
title	X-ray/dynamical masses with the complete CHeCS sample	Proposal tit
observer	Ben Maughan	Principal investigator
object	ZWCL8197	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	259.547917	Observer's specified target RA [deg]
dec_targ	56.671	Observer's specified target Dec [deg]
ra_nom	259.53243866929	Nominal RA [deg]
dec_nom	56.67123517226	Nominal Dec [deg]
roll_nom	154.92989237902	Nominal Roll [deg]
revision	1	Processing version of data
ontime	19063.937987804	Sum of GTIs [s]
livetime	18814.853603327	Livetime [s]
ontime0	19066.955898046	Sum of GTIs [s]
ontime1	19066.99693799	Sum of GTIs [s]
ontime2	19067.037978053	Sum of GTIs [s]
ontime3	19063.937987804	Sum of GTIs [s]
ontime6	19066.914857984	Sum of GTIs [s]
l2events	73227	Number of level 2 events



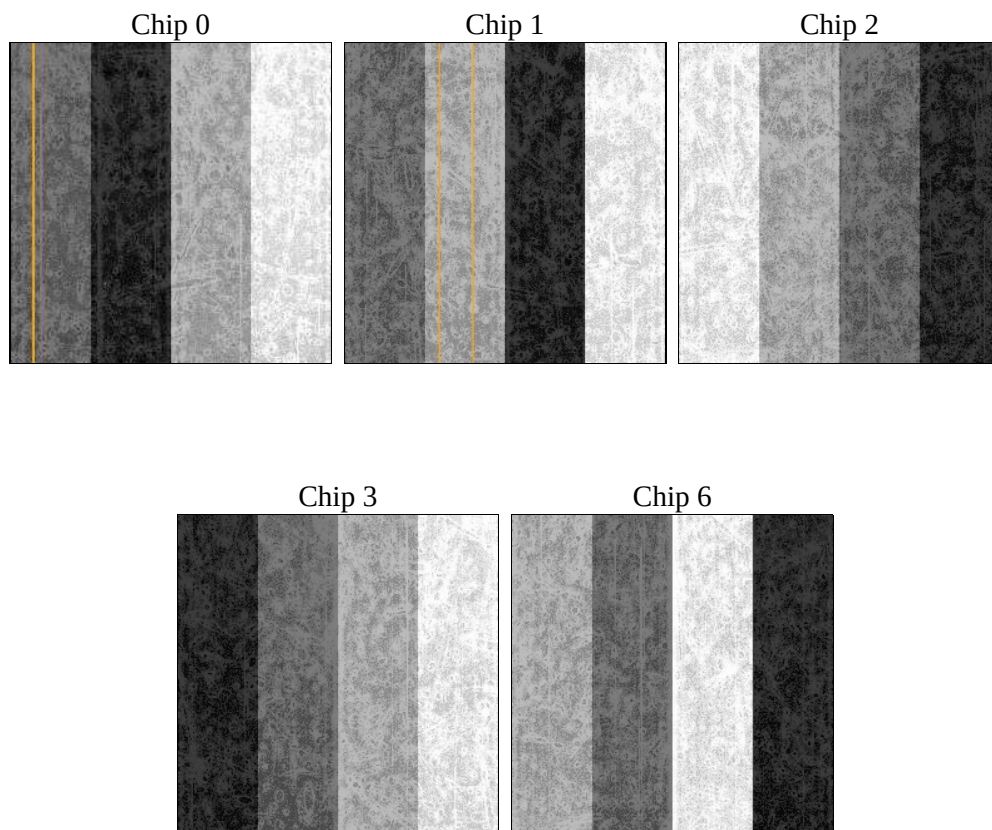
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	19000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.4	Processing system revision	ontime	19063.937987804	Sum of GTIs [s]
caldsver	4.7.4	 	ontime0	19066.955898046	Sum of GTIs [s]
date	2017-05-16T22:15:22	Date and time of file creation	ontime1	19066.99693799	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	19067.037978053	Sum of GTIs [s]
			ontime3	19063.937987804	Sum of GTIs [s]
			ontime6	19066.914857984	Sum of GTIs [s]
			l1events	689555	Number of level 1 events

2.1.4 Events

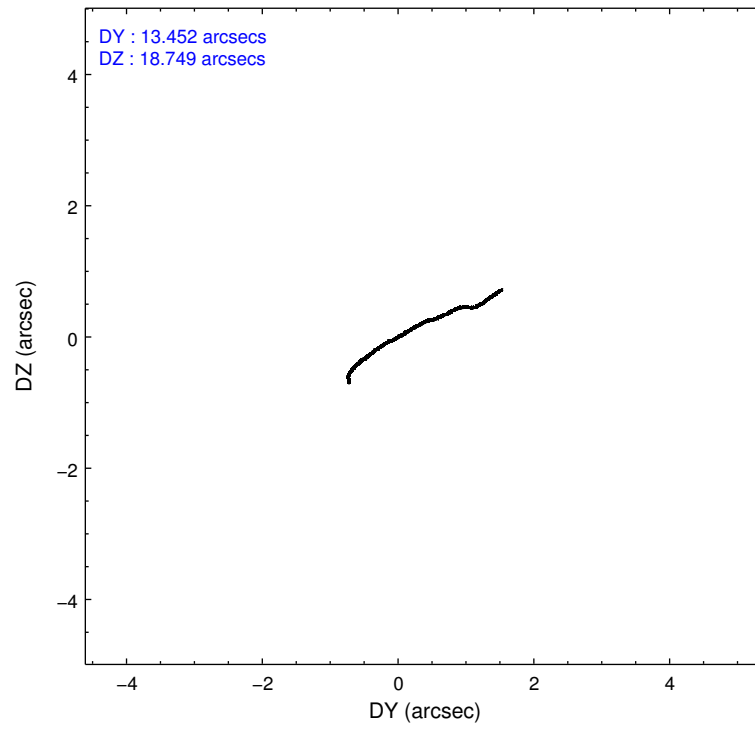
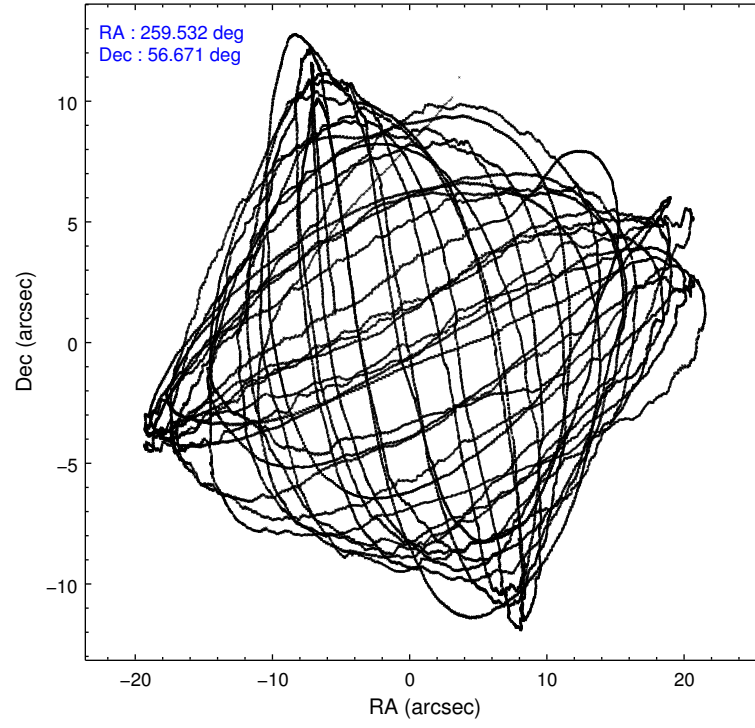
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	128523	130825	143224	145228	141755
rejected events	112790	112985	127109	124600	126712
rejected %	87%	86%	88%	85%	89%

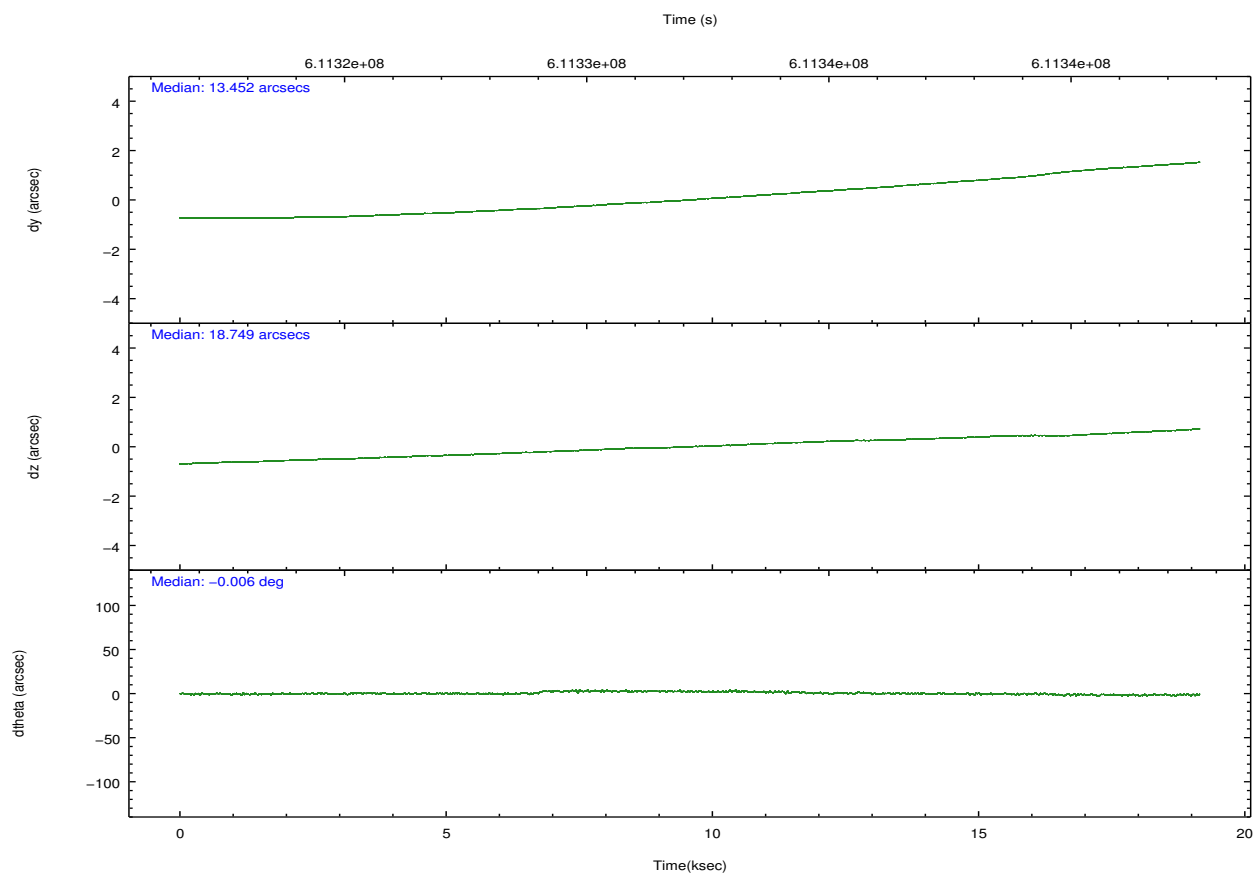
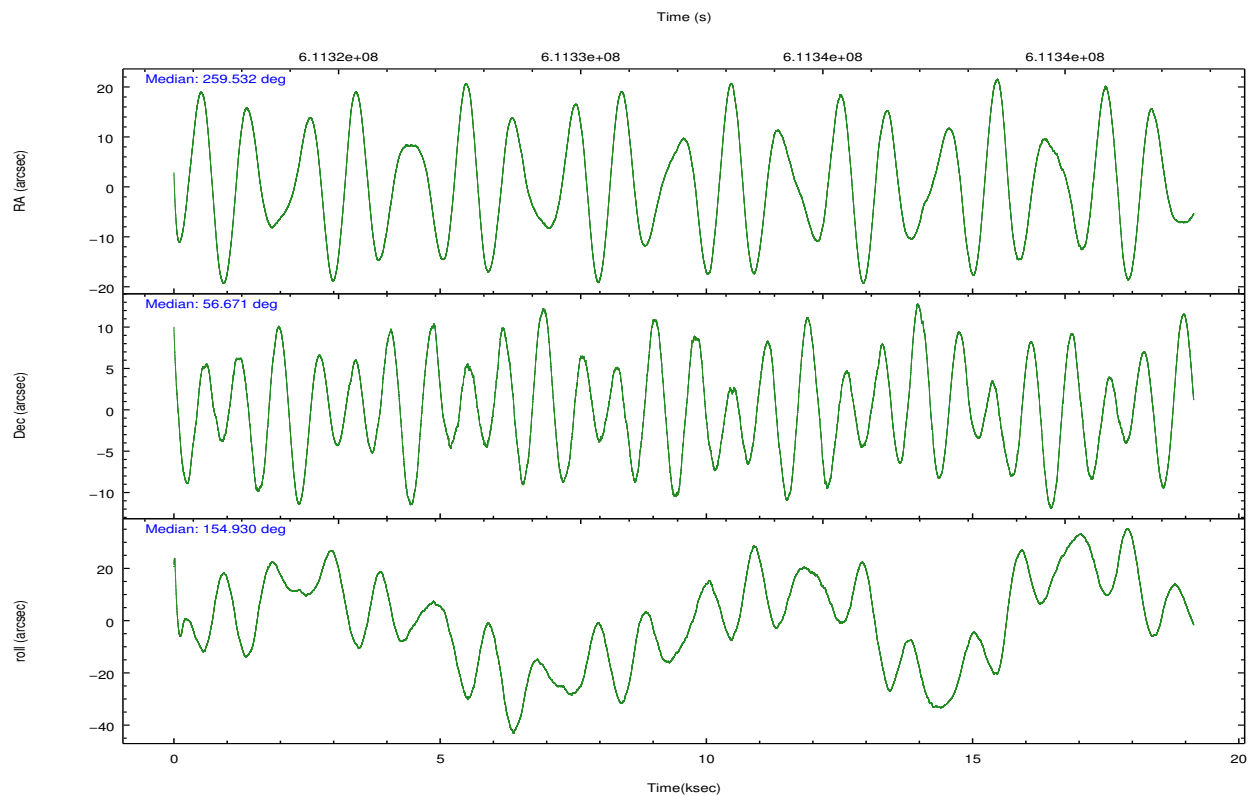
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	5600	6417	6516	10164	4778
	4%	4%	4%	6%	3%
grade 1 events	78	61	78	101	53
	0%	0%	0%	0%	0%
grade 2 events	3788	4497	3633	3840	3592
	2%	3%	2%	2%	2%
grade 3 events	1566	1577	1488	1688	1481
	1%	1%	1%	1%	1%
grade 4 events	1514	1646	1526	1693	1489
	1%	1%	1%	1%	1%
grade 5 events	5750	5856	5305	6494	6131
	4%	4%	3%	4%	4%
grade 6 events	3271	3709	2959	3251	3708
	2%	2%	2%	2%	2%
grade 7 events	106956	107062	121719	117997	120523
	83%	81%	84%	81%	85%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	259.582477	259.532438669287	CCD I2 on	Y	Y
[deg] Pointing Dec	56.673712	56.67123517226024	CCD I3 on	Y	Y
[deg] Pointing Roll	154.679354	154.9298923790239	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	611322711.184000	611320953.1298	CCD S5 on	N	N
Observation start date	2017-05-16T11:50:42	2017-05-16T11:22:33	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	611341711.184000	611342356.15604	On-chip summing requested	N	N
Observation end date	2017-05-16T17:07:22	2017-05-16T17:19:16	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



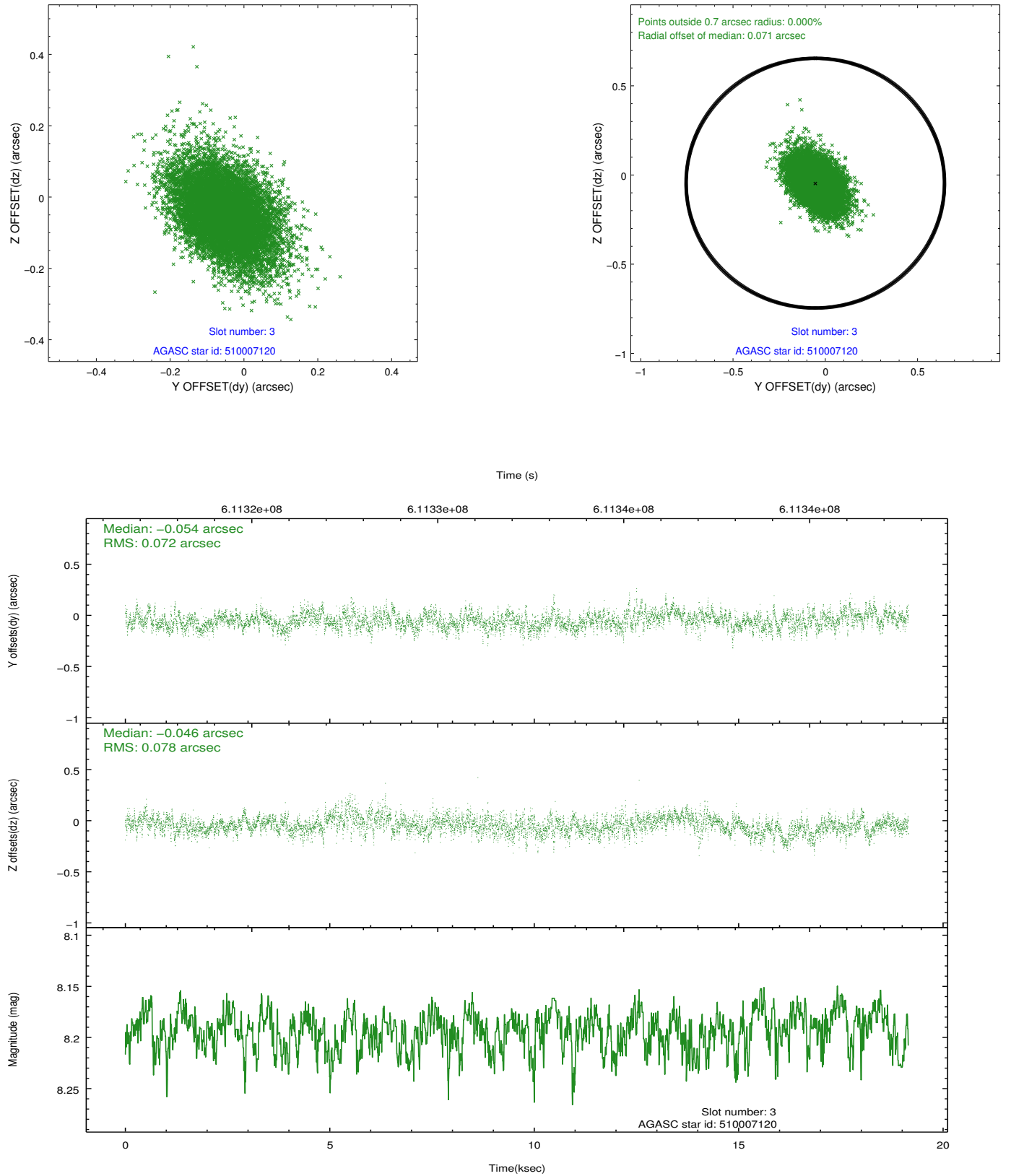


Slot Statistics

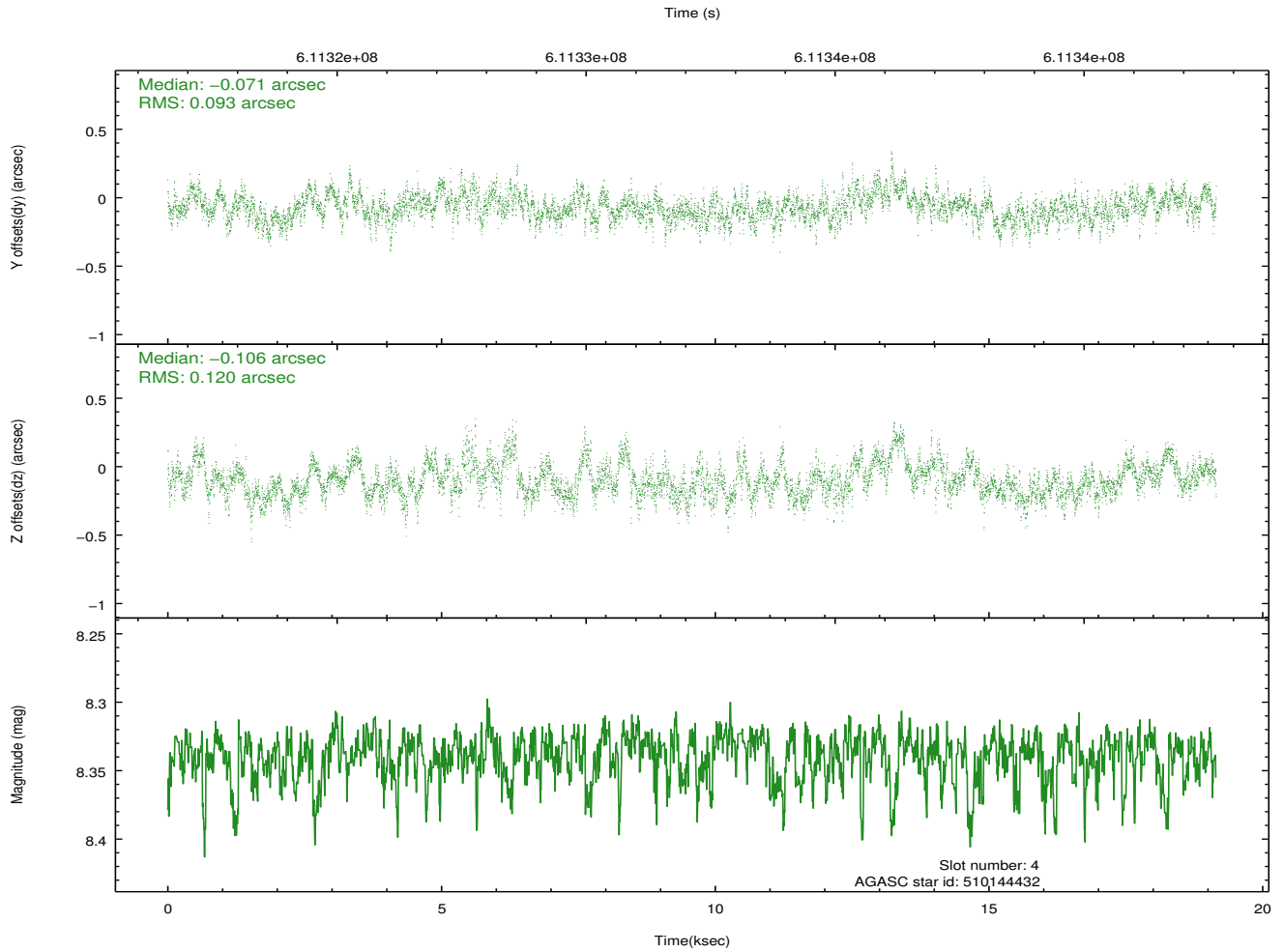
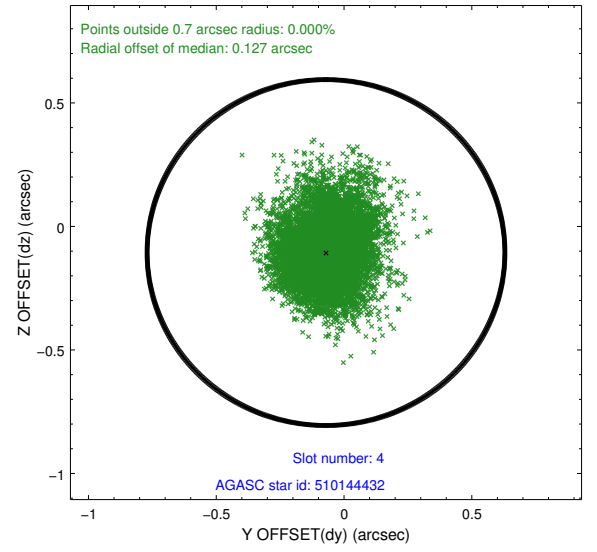
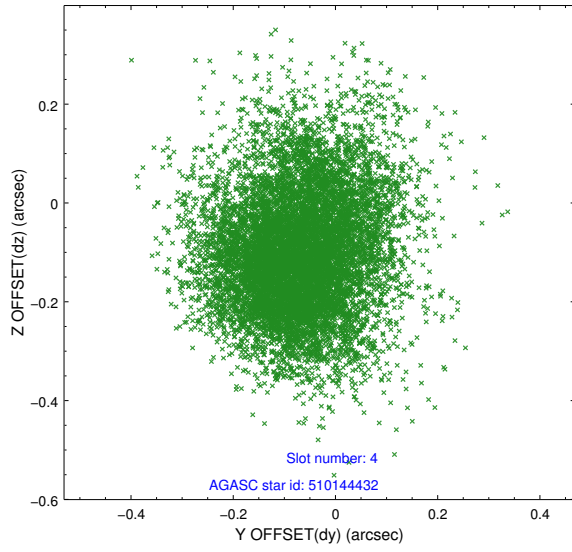
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.21	4672	-0.062	-0.024	0.027	0.044	0.000000	0.000000	925.91	-842.42
1	FID		ACIS-I-4	7.15	4672	0.397	0.069	0.022	0.035	0.000000	0.000000	2146.41	1057.47
2	FID		ACIS-I-5	7.20	4669	-0.434	0.027	0.014	0.021	0.000000	0.000000	-1822.32	1055.25
3	GUIDE	used	510007120	8.19	9337	-0.054	-0.046	0.110	0.192	259.872376	56.179326	-1285.94	1359.39
4	GUIDE	used	510144432	8.34	9342	-0.071	-0.106	0.158	0.265	260.023693	55.935444	-1939.67	2019.27
5	GUIDE	used	510525552	9.57	9275	-0.276	-0.187	0.190	0.325	258.590851	56.414002	1390.87	1676.84
6	GUIDE	used	510666456	6.82	9344	0.239	0.438	0.166	0.312	260.844448	57.011720	-1705.21	-2178.09
7	GUIDE	used	510527896	9.65	9333	0.157	-0.111	0.256	0.408	258.518383	56.455739	1584.90	1599.41

2.4 Star Slots

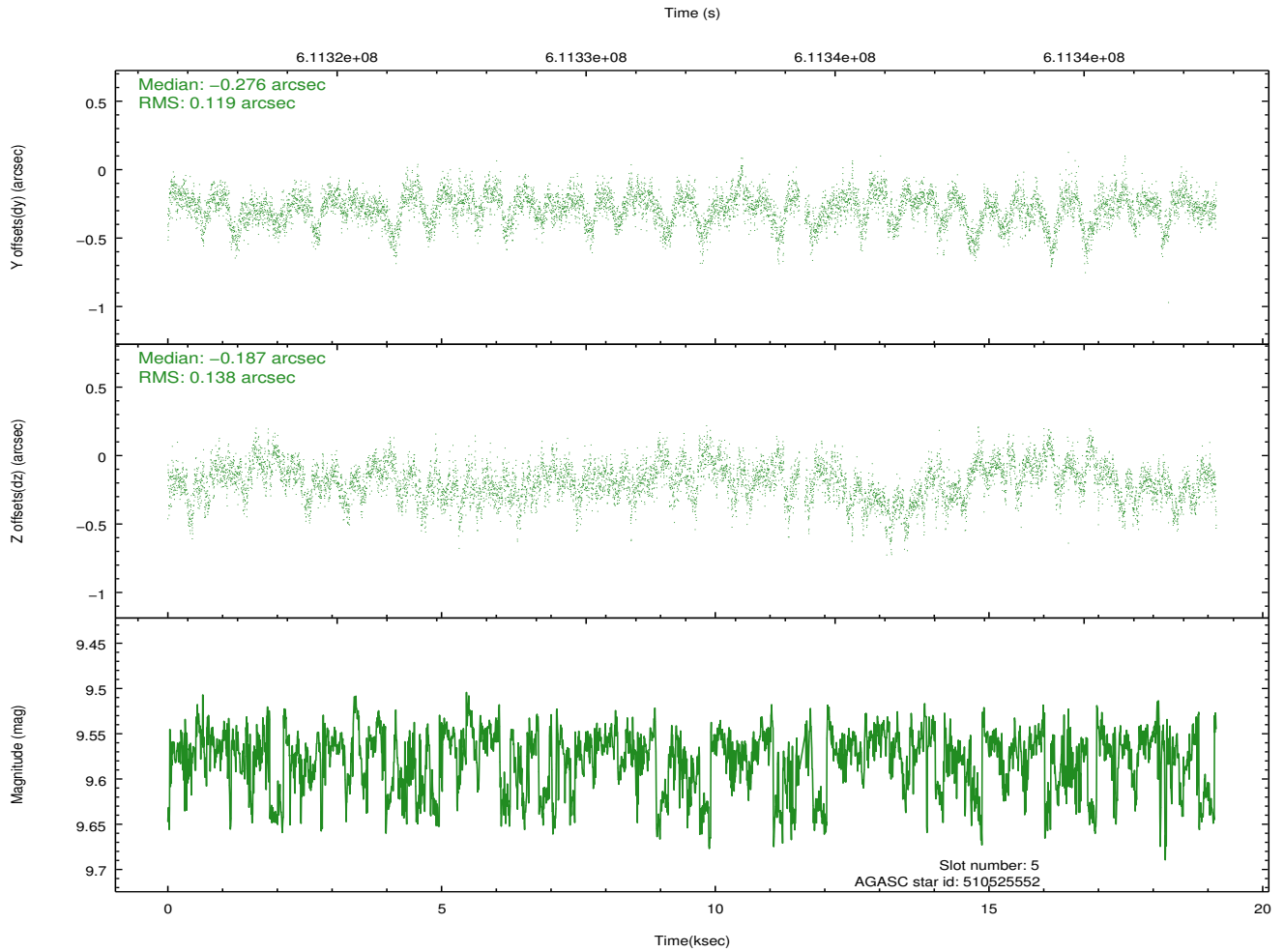
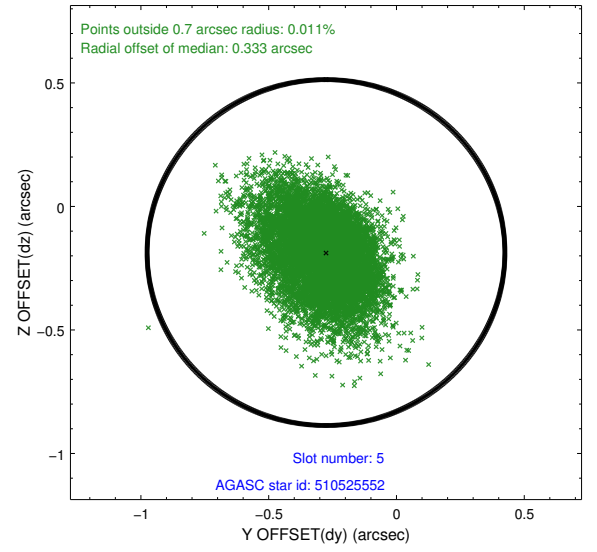
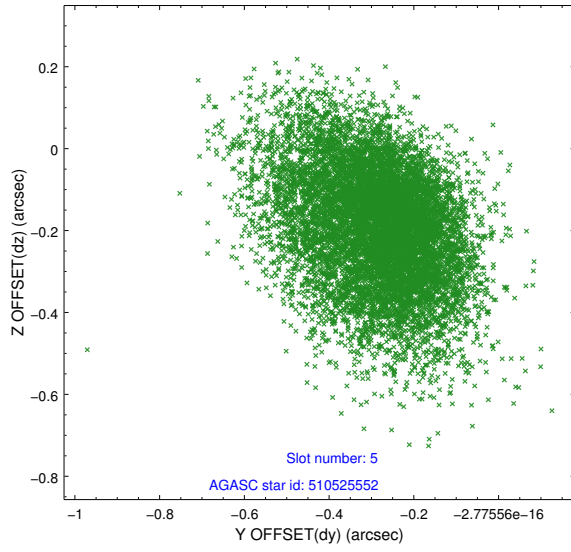
2.4.1 Slot 3



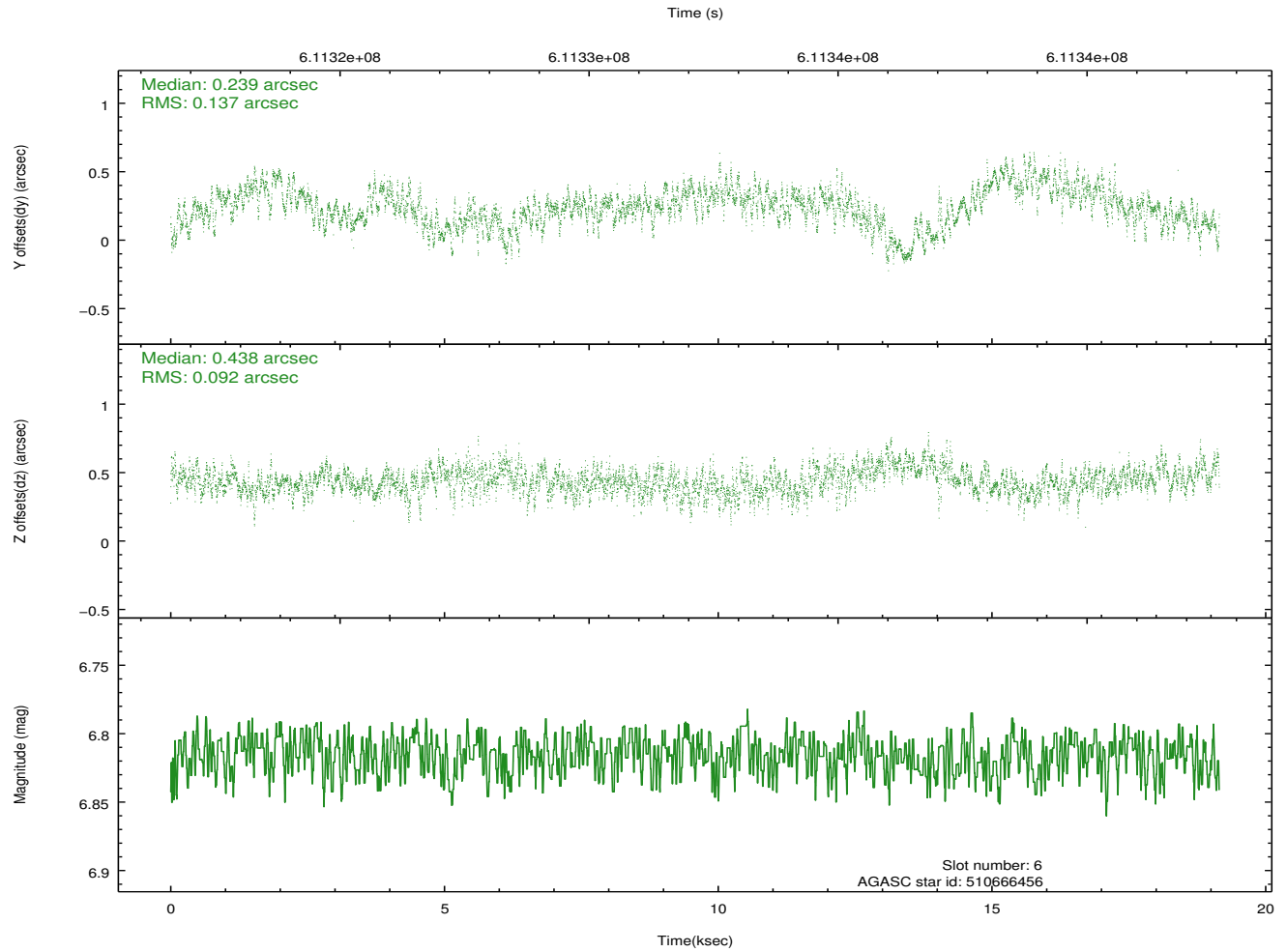
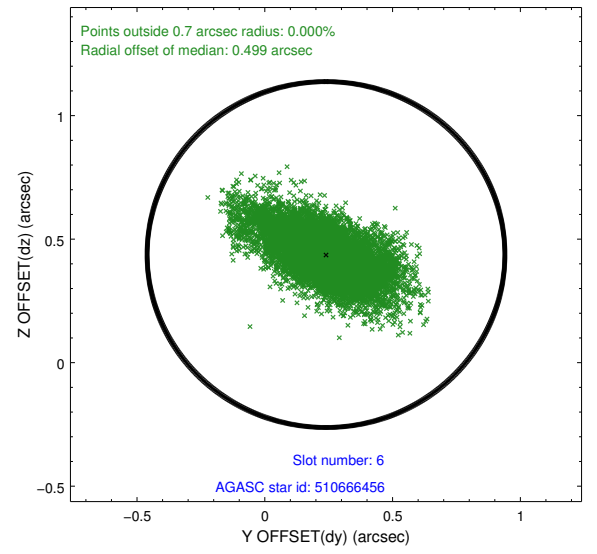
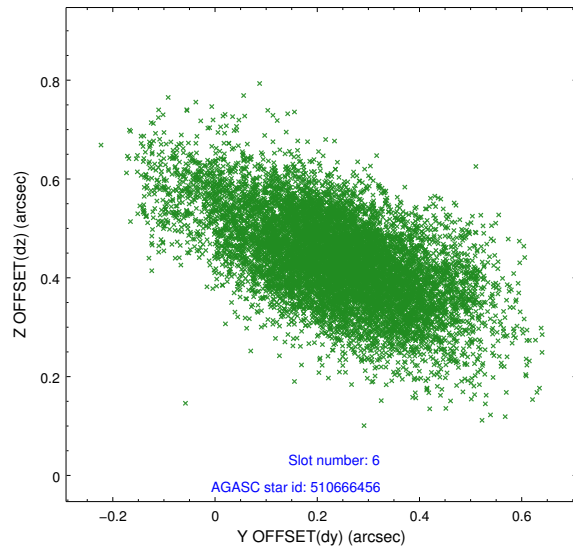
2.4.2 Slot 4



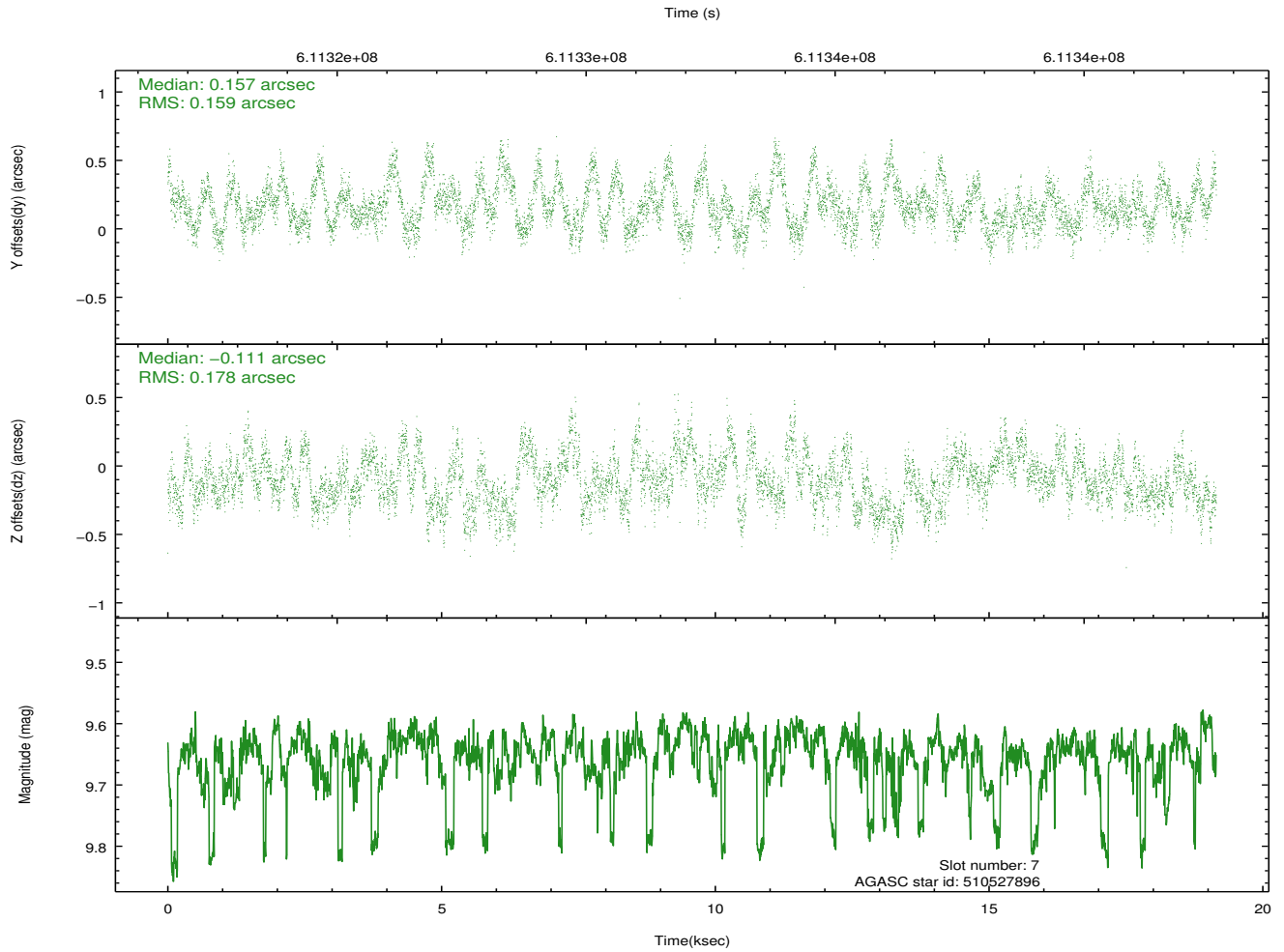
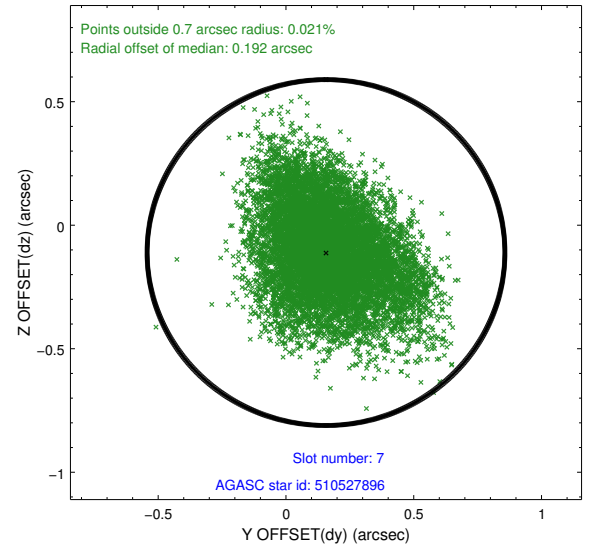
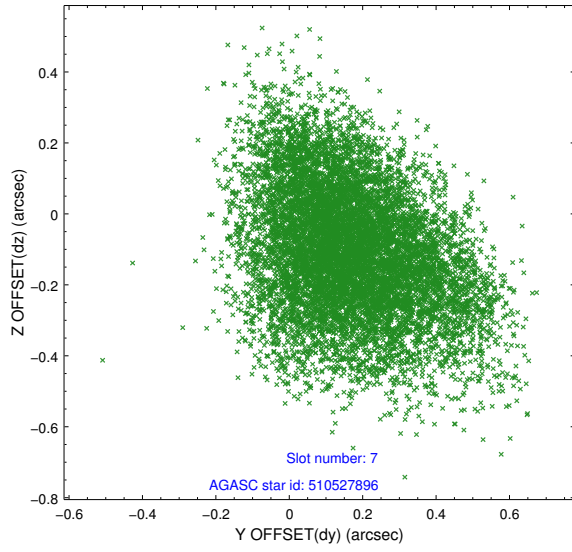
2.4.3 Slot 5



2.4.4 Slot 6

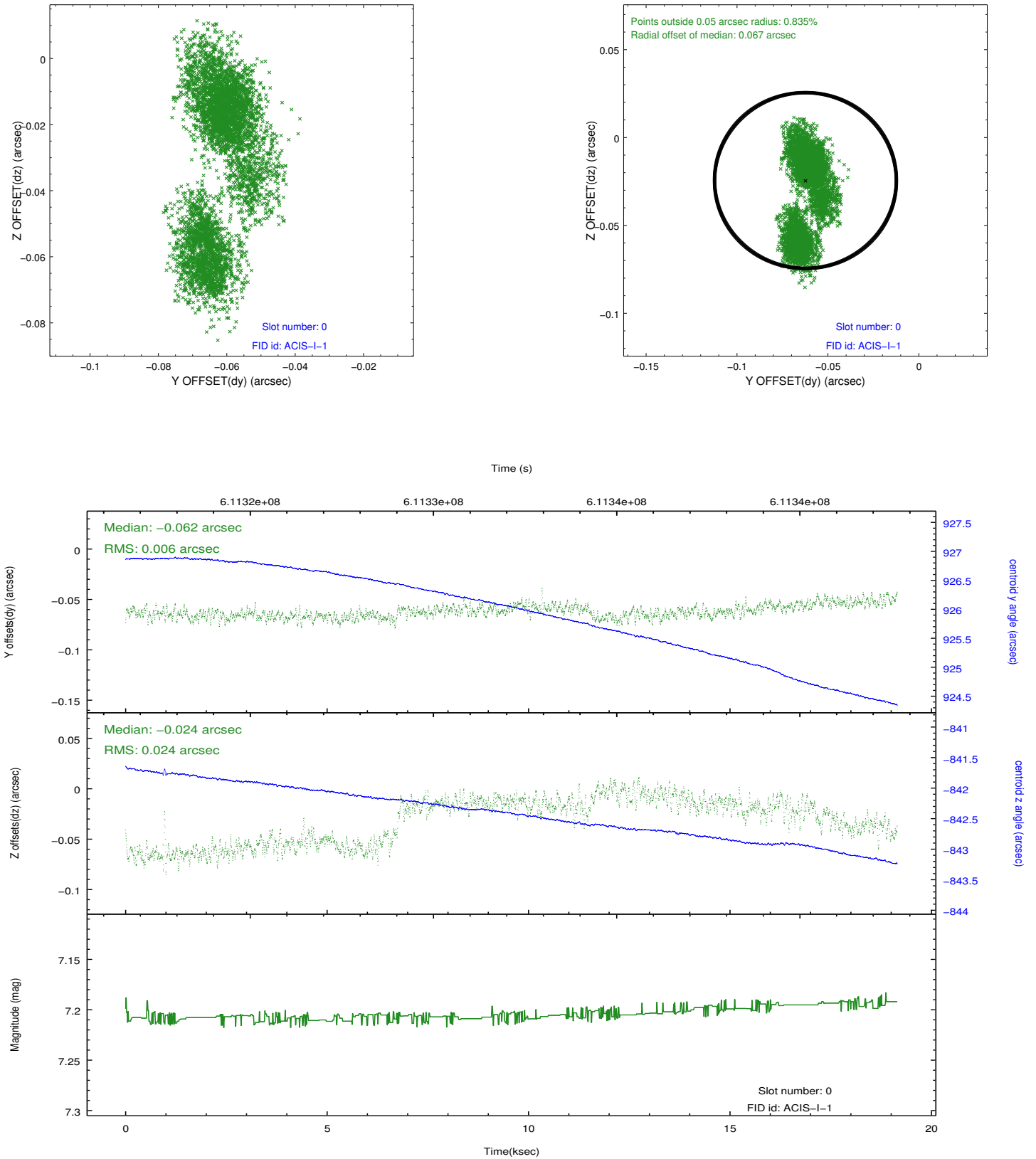


2.4.5 Slot 7

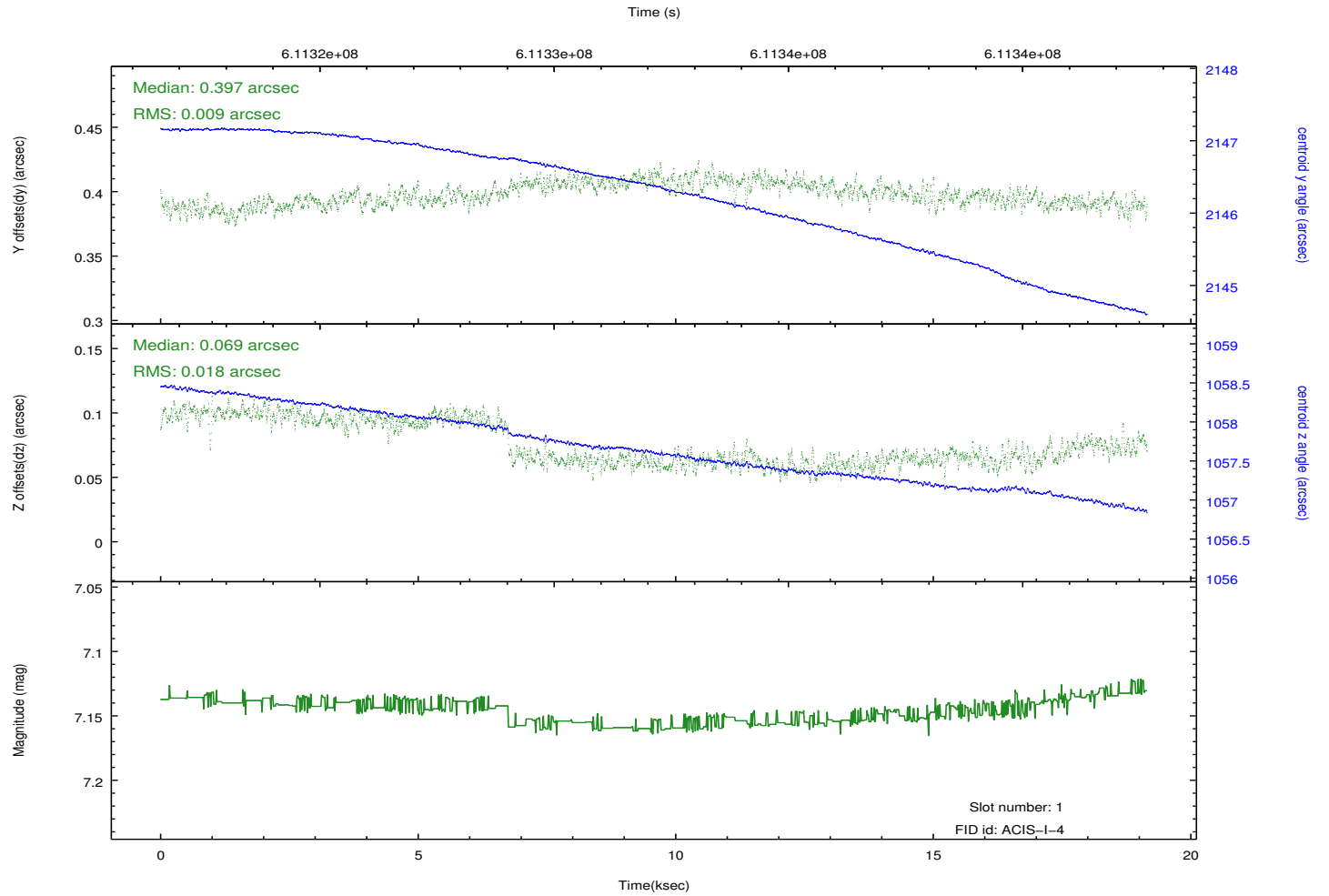
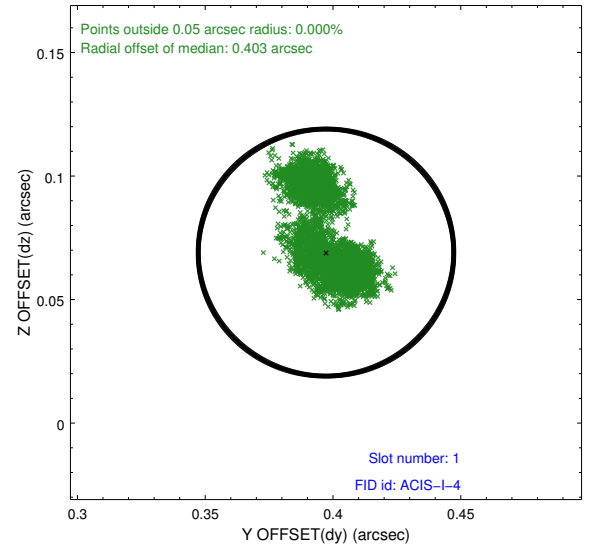
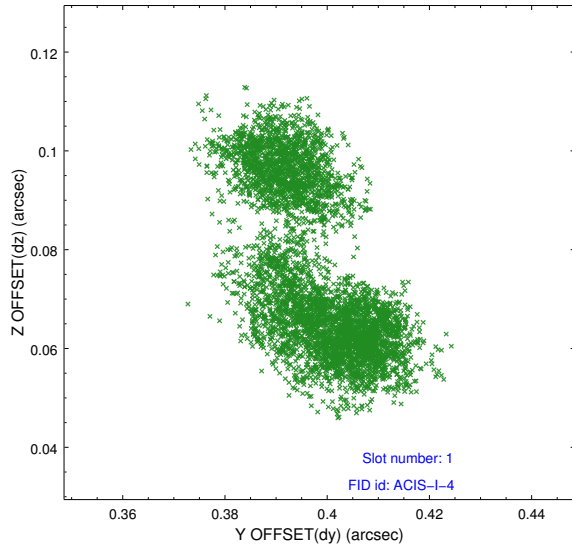


2.5 FID Slots

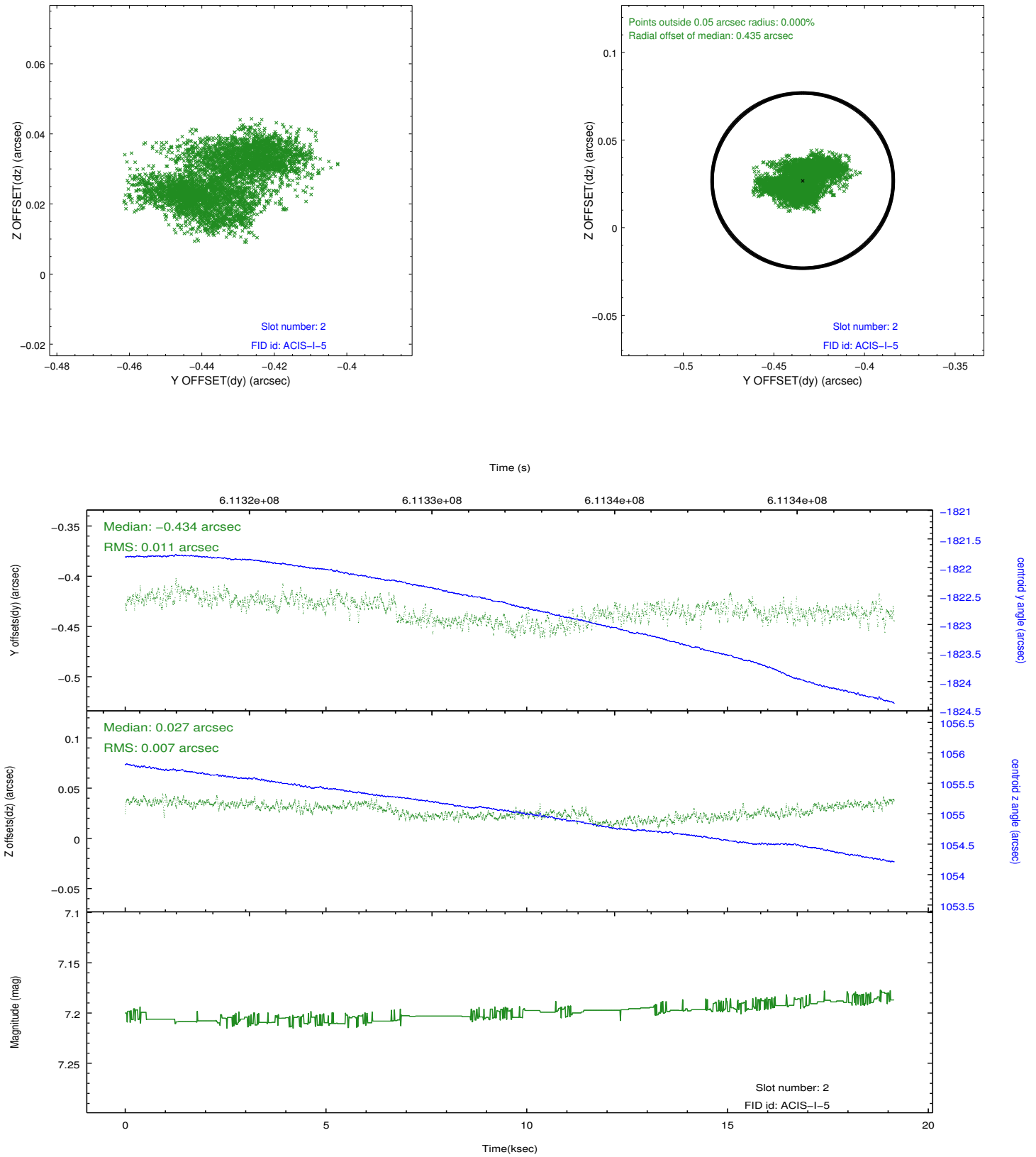
2.5.1 Slot 0



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)	2017.05.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.063937987804

A.2 Comments