

V&V Reference Report

L2 ASCDS Version : 10.8.1

Observation 22630 - L2 Version 1
Chandra X-Ray Center

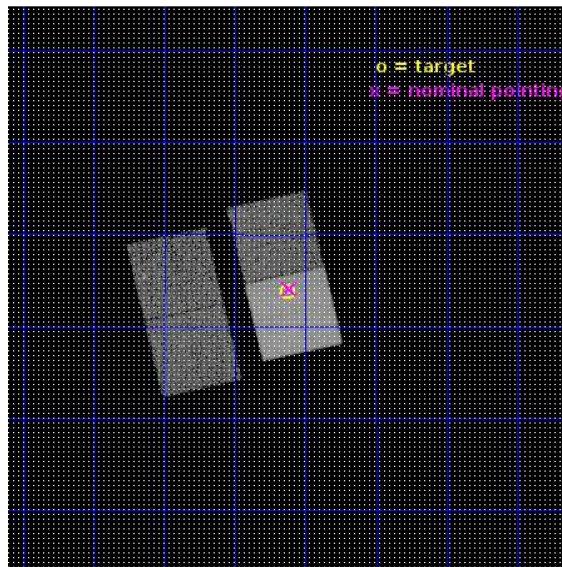
L2 Processing Date : Feb 29 2020

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1 Front

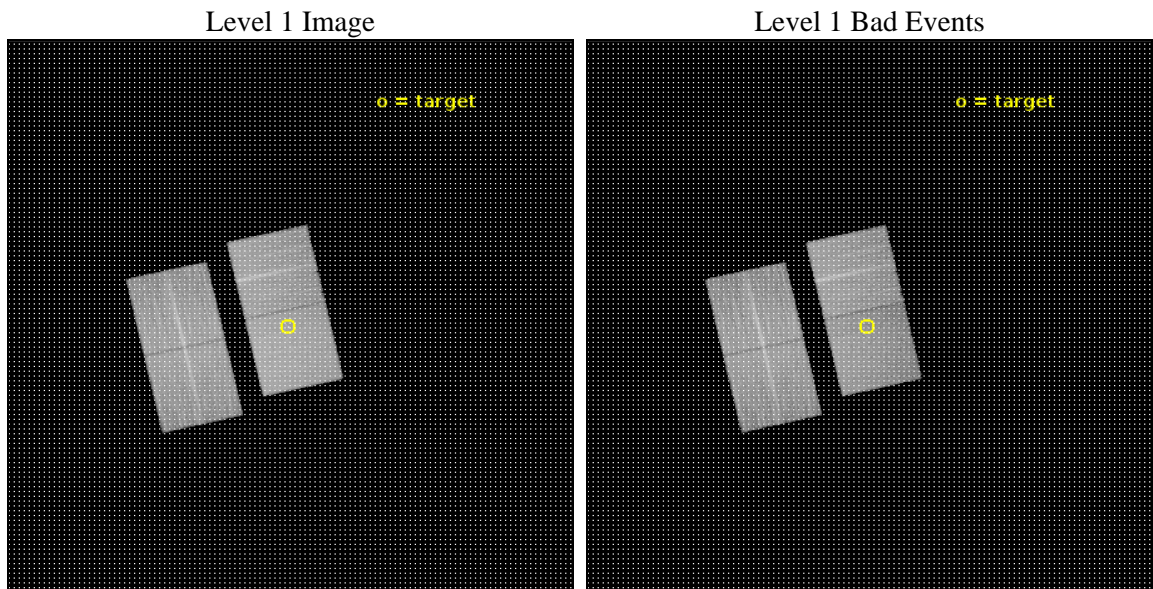
seq_num	704014	Sequence number
obs_id	22630	Observation id
title	XRAYING THE UNKNOWN 3CR EXTRAGALACTIC SKY	Proposal title
observer	Francesco Massaro	Principal investigator
object	3CR 390	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	281.406667	Observer's specified target RA [deg]
dec_targ	9.896861	Observer's specified target Dec [deg]
ra_nom	281.40303507181	Nominal RA [deg]
dec_nom	9.9015992357928	Nominal Dec [deg]
roll_nom	77.157251622596	Nominal Roll [deg]
revision	1	Processing version of data
ontime	20061.792533278	Sum of GTIs [s]
livetime	19799.670444554	Livetime [s]
ontime2	20061.669413328	Sum of GTIs [s]
ontime3	20058.569403052	Sum of GTIs [s]
ontime6	20061.751493335	Sum of GTIs [s]
ontime7	20061.792533278	Sum of GTIs [s]
l2events	129783	Number of level 2 events



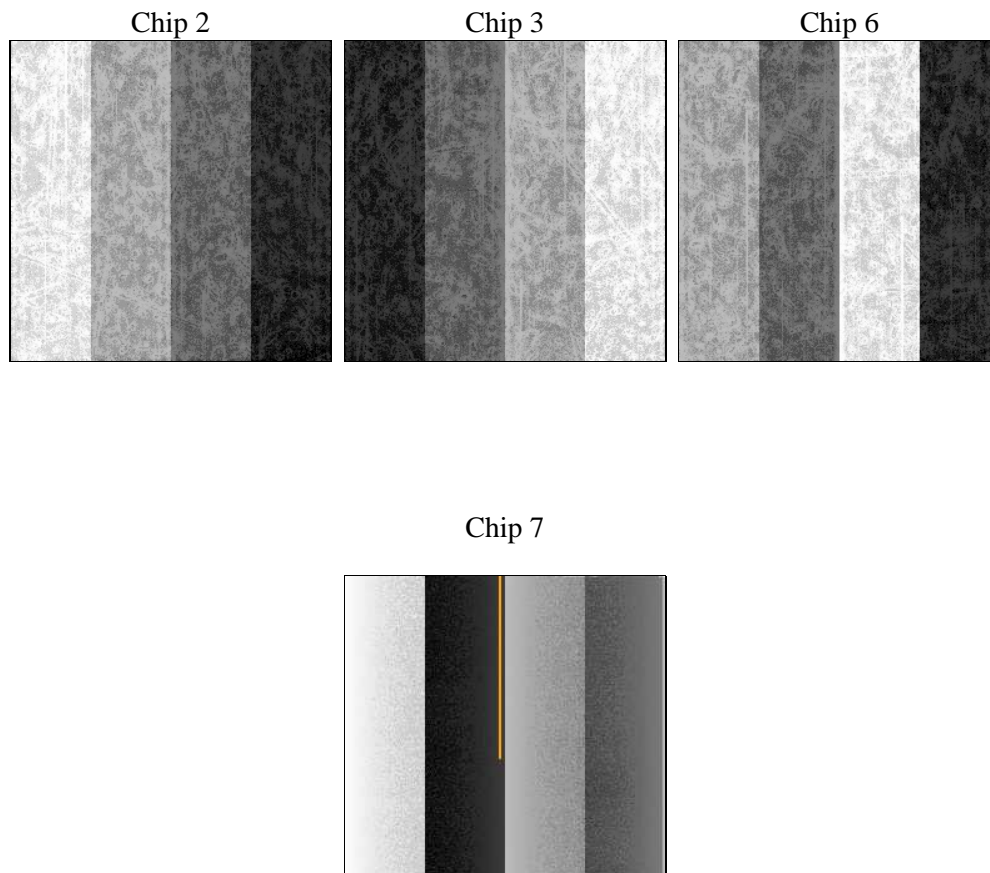
2 OBI

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	10.8.1	Processing system revision	ontime	20061.792533278	Sum of GTIs [s]
caldbver	4.8.4.2	 	ontime2	20061.669413328	Sum of GTIs [s]
date	2020-02-29T05:30:02	Date and time of file creation	ontime3	20058.569403052	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	20061.751493335	Sum of GTIs [s]
			ontime7	20061.792533278	Sum of GTIs [s]
			l1events	686517	Number of level 1 events

2.1.4 Events

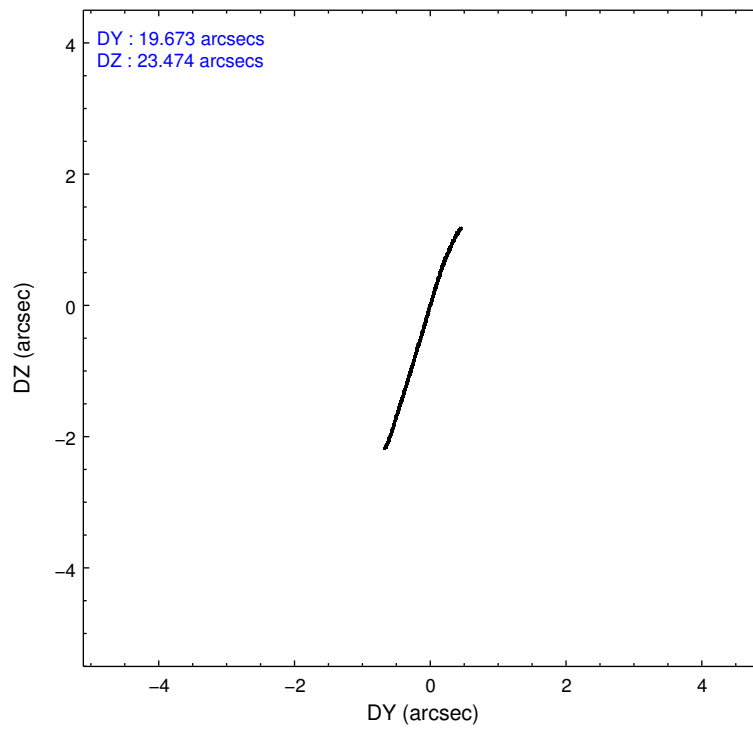
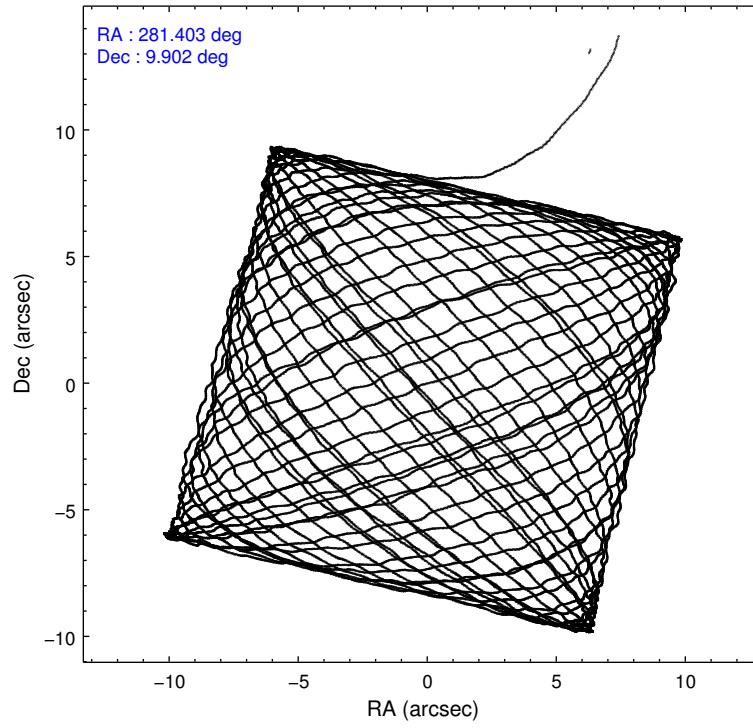
	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	162063	154682	166250	203522
rejected events	145833	138458	148517	115176
rejected %	89%	89%	89%	56%

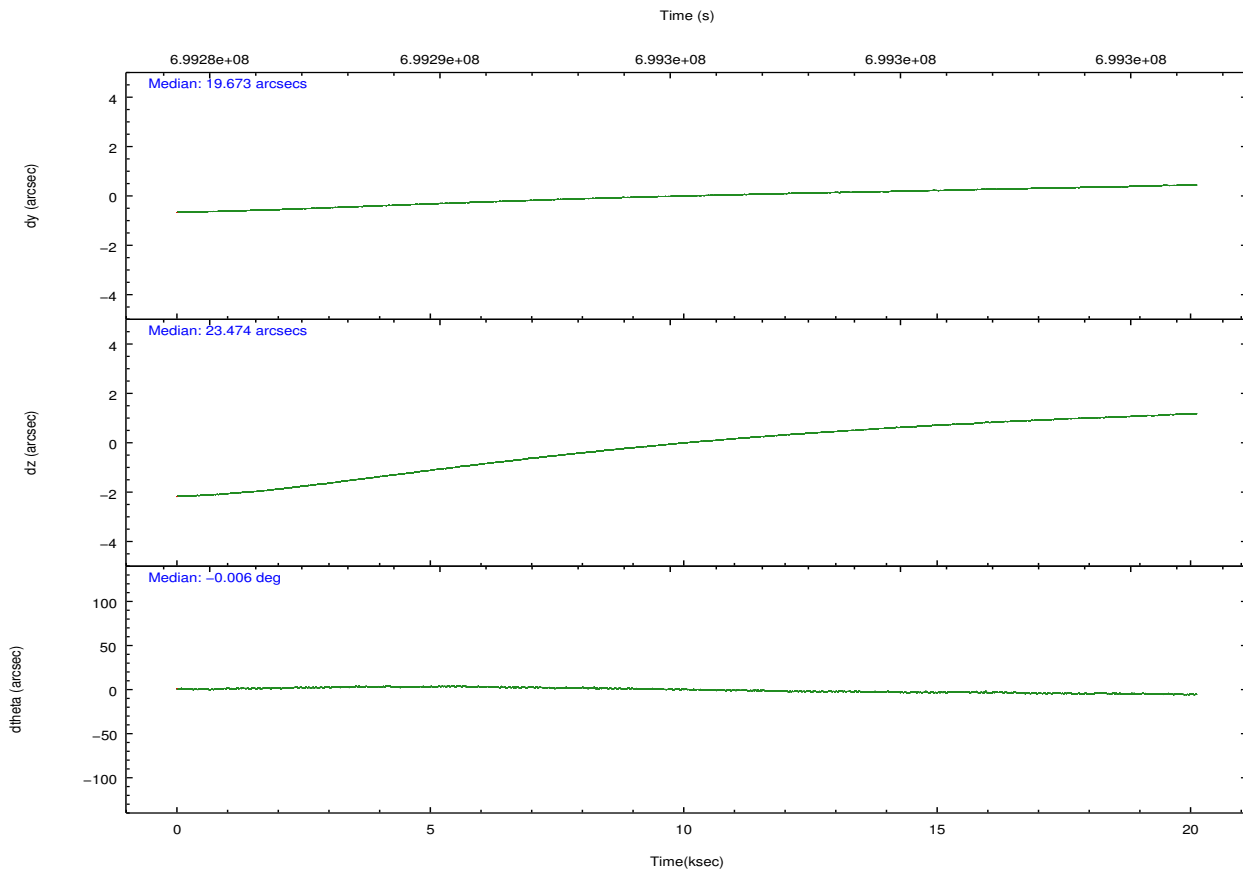
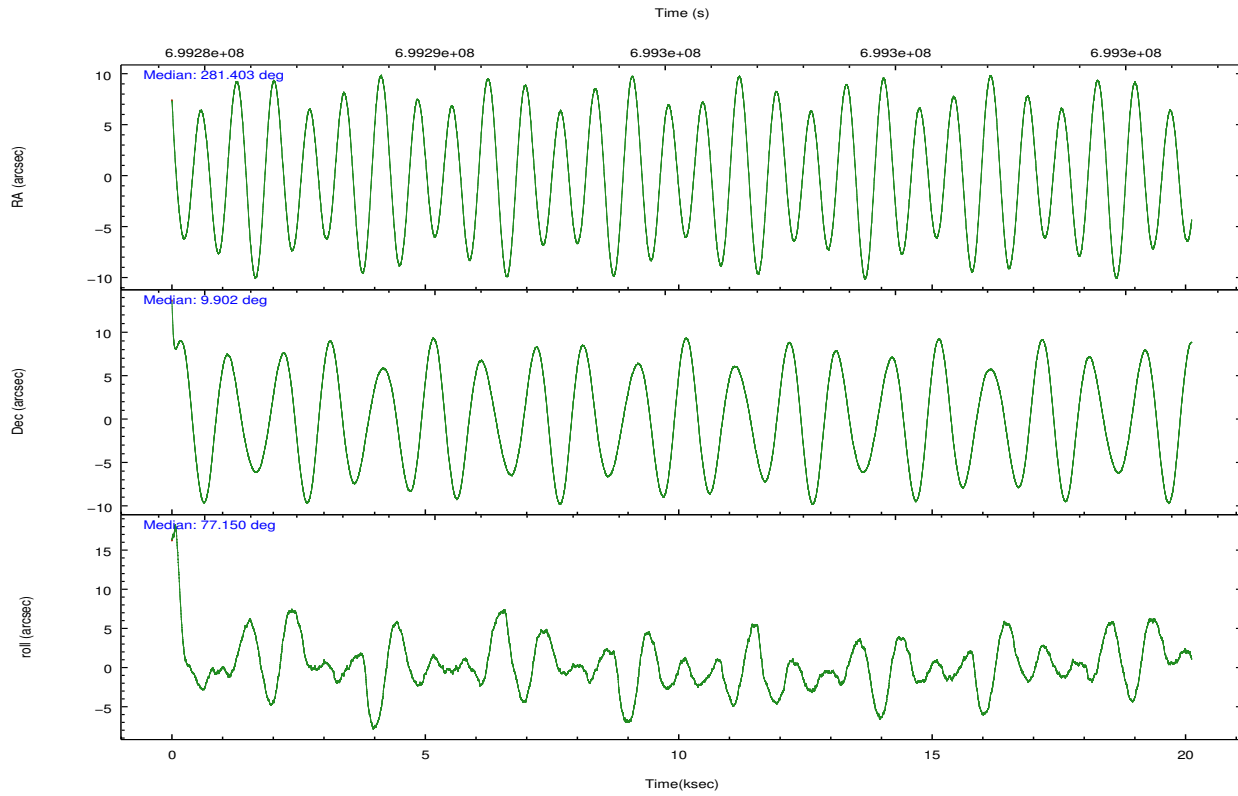
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	5778	5778	5035	7396
	3%	3%	3%	3%
grade 1 events	92	83	60	288
	0%	0%	0%	0%
grade 2 events	3919	3475	5099	18633
	2%	2%	3%	9%
grade 3 events	1531	1705	1447	6806
	0%	1%	0%	3%
grade 4 events	1575	1625	1402	6848
	0%	1%	0%	3%
grade 5 events	5628	6807	6499	19342
	3%	4%	3%	9%
grade 6 events	3430	3643	4765	48697
	2%	2%	2%	23%
grade 7 events	140110	131566	141943	95512
	86%	85%	85%	46%

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	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	281.411623	281.403035071813	CCD I2 on	O1	Y
[deg] Pointing Dec	9.875467	9.901599235792805	CCD I3 on	O2	Y
[deg] Pointing Roll	76.999149	77.15725162259628	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	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	N	N
[s] Observation start time (MET)	699285410.184000	699284078.89924	CCD S5 on	N	N
Observation start date	2020-02-28T13:55:41	2020-02-28T13:34:38	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	699305410.184000	699306522.8131	On-chip summing requested	N	N
Observation end date	2020-02-28T19:29:01	2020-02-28T19:48:42	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





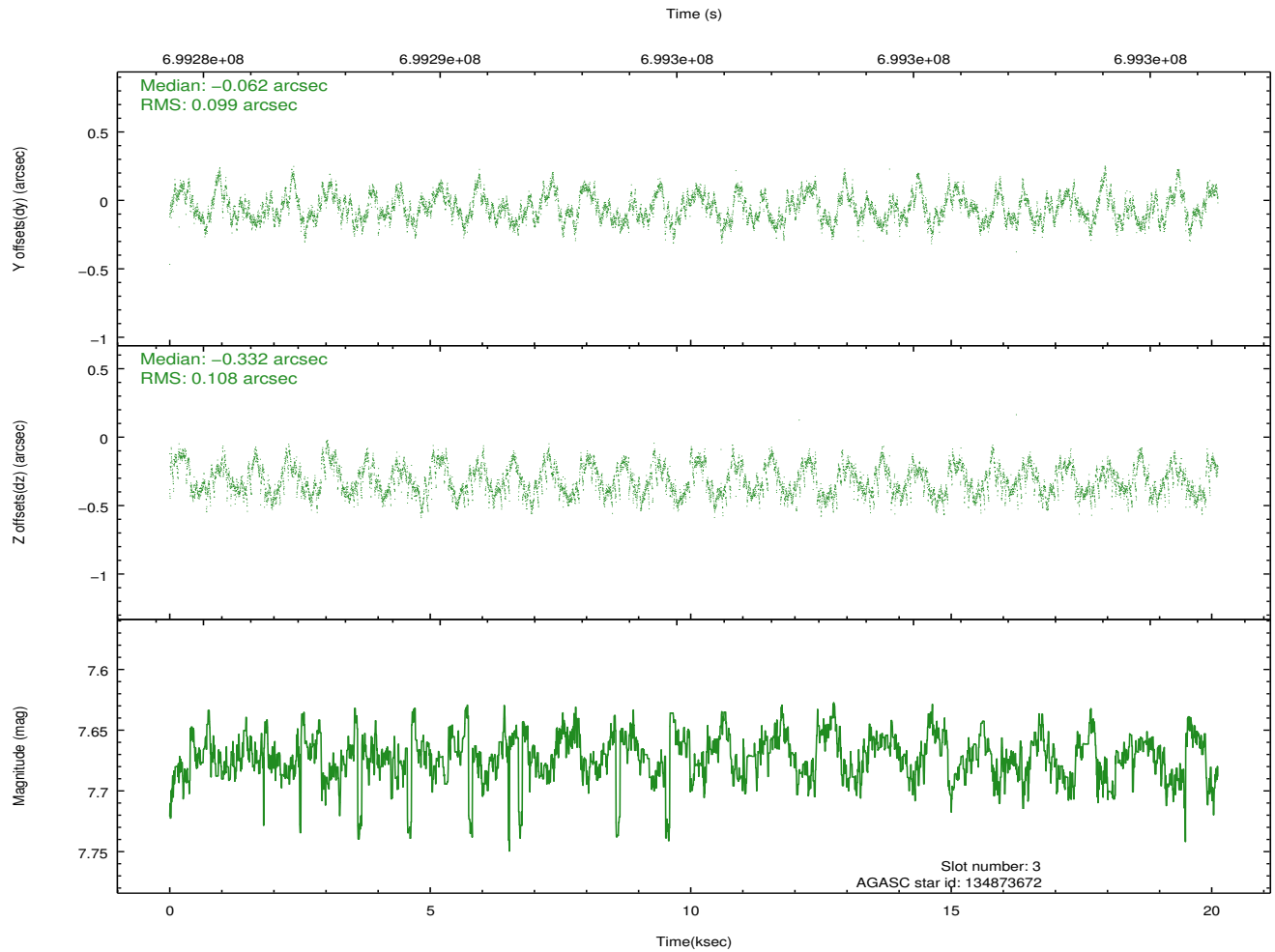
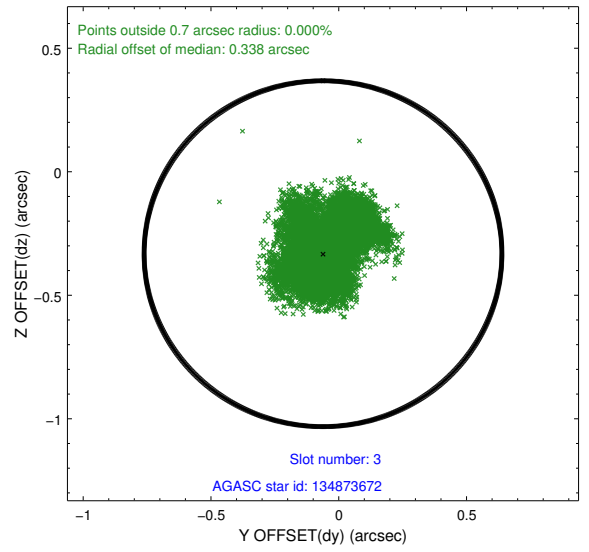
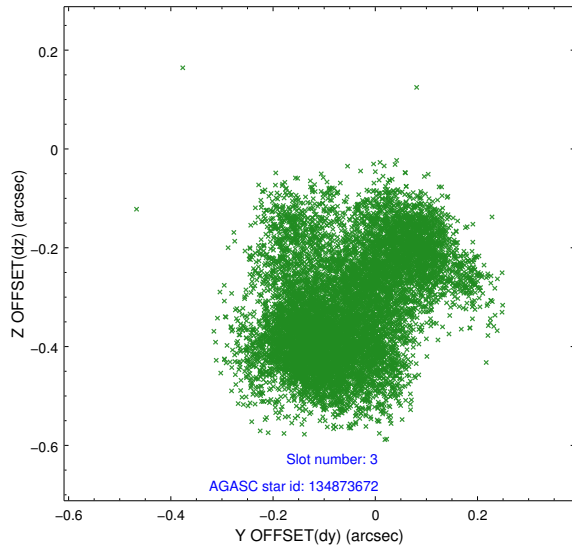
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-2	7.20	4908	1.000	-0.395	-0.293	0.051	0.078	0.000000	0.000000	-773.06	-1745
1	FID		ACIS-S-4	7.29	4908	1.000	0.854	0.268	0.011	0.021	0.000000	0.000000	2141.32	163
2	FID		ACIS-S-5	7.28	4908	1.000	-0.488	0.034	0.048	0.070	0.000000	0.000000	-1825.82	157
3	GUIDE	used	134873672	7.67	9813	1.000	-0.062	-0.332	0.161	0.245	280.819699	9.976236	-117.25	2125
4	GUIDE	used	134877816	8.76	9807	1.000	0.280	0.031	0.140	0.252	280.693383	9.589875	-1573.19	2252
5	GUIDE	used	135004352	8.27	9810	1.000	-0.103	0.189	0.145	0.277	282.010503	10.386142	2270.41	-1652
6	GUIDE	used	135019352	7.54	9815	1.000	0.249	0.643	0.127	0.216	281.504616	9.818372	-125.70	-367
7	GUIDE	used	134895584	8.73	9803	1.000	-0.369	-0.537	0.137	0.225	280.899909	10.275319	995.47	2089

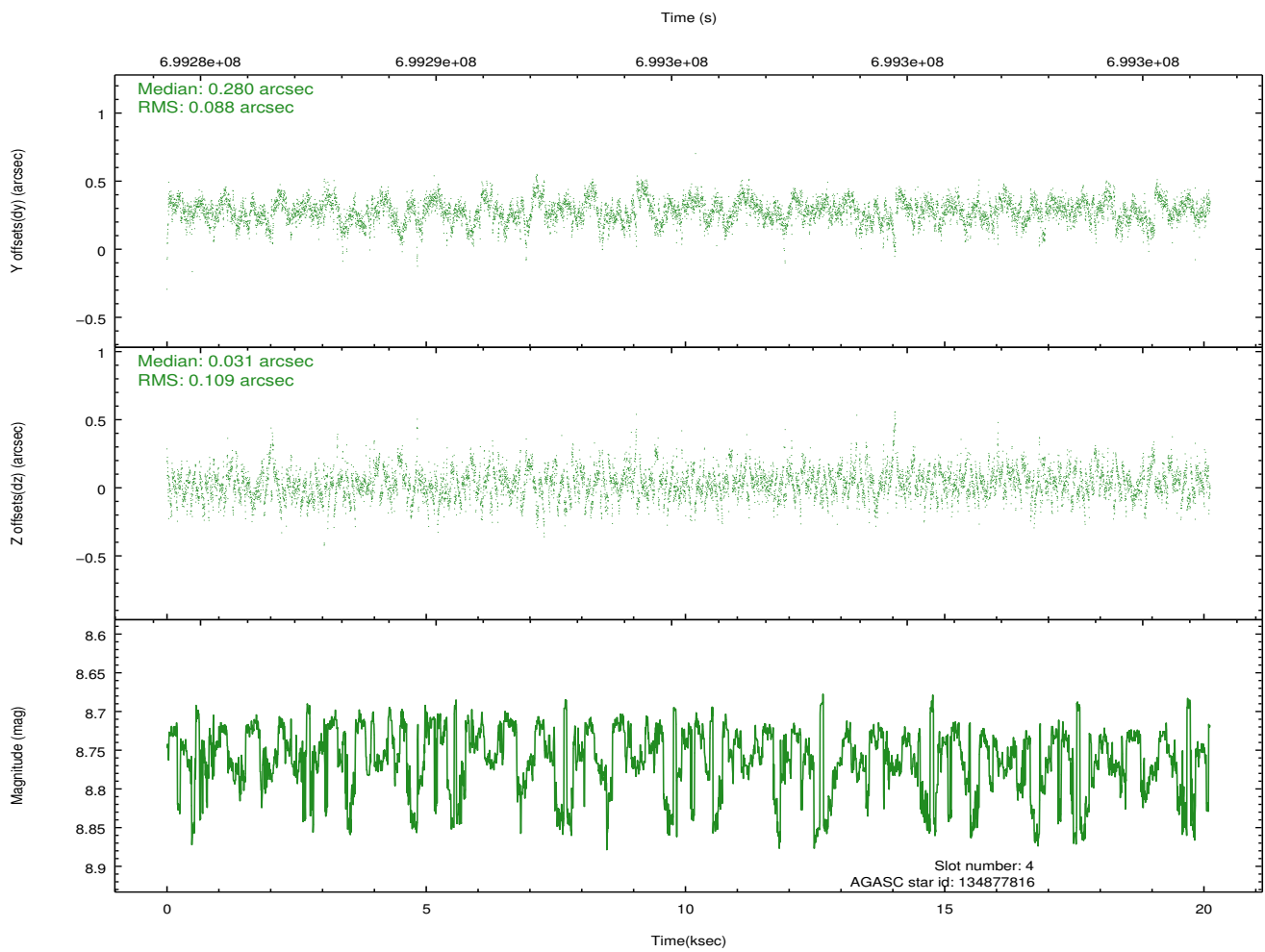
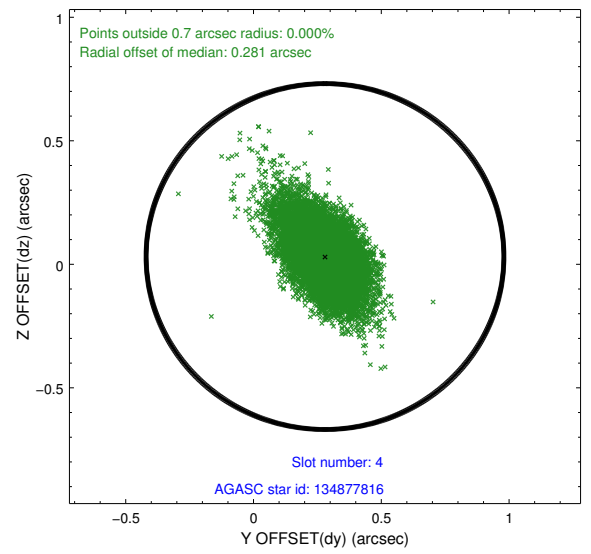
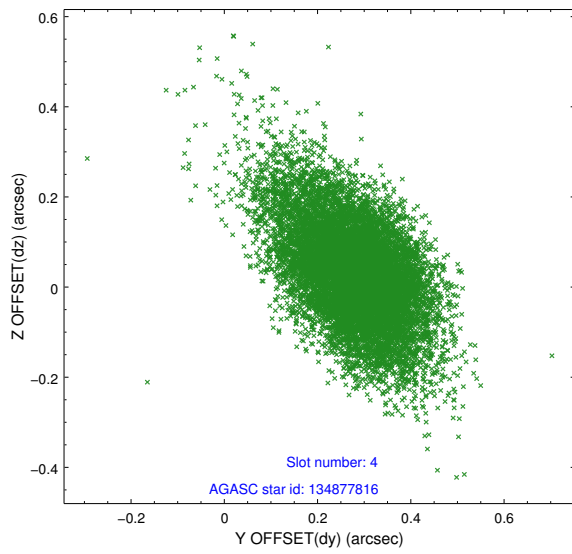
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2.4 Star Slots

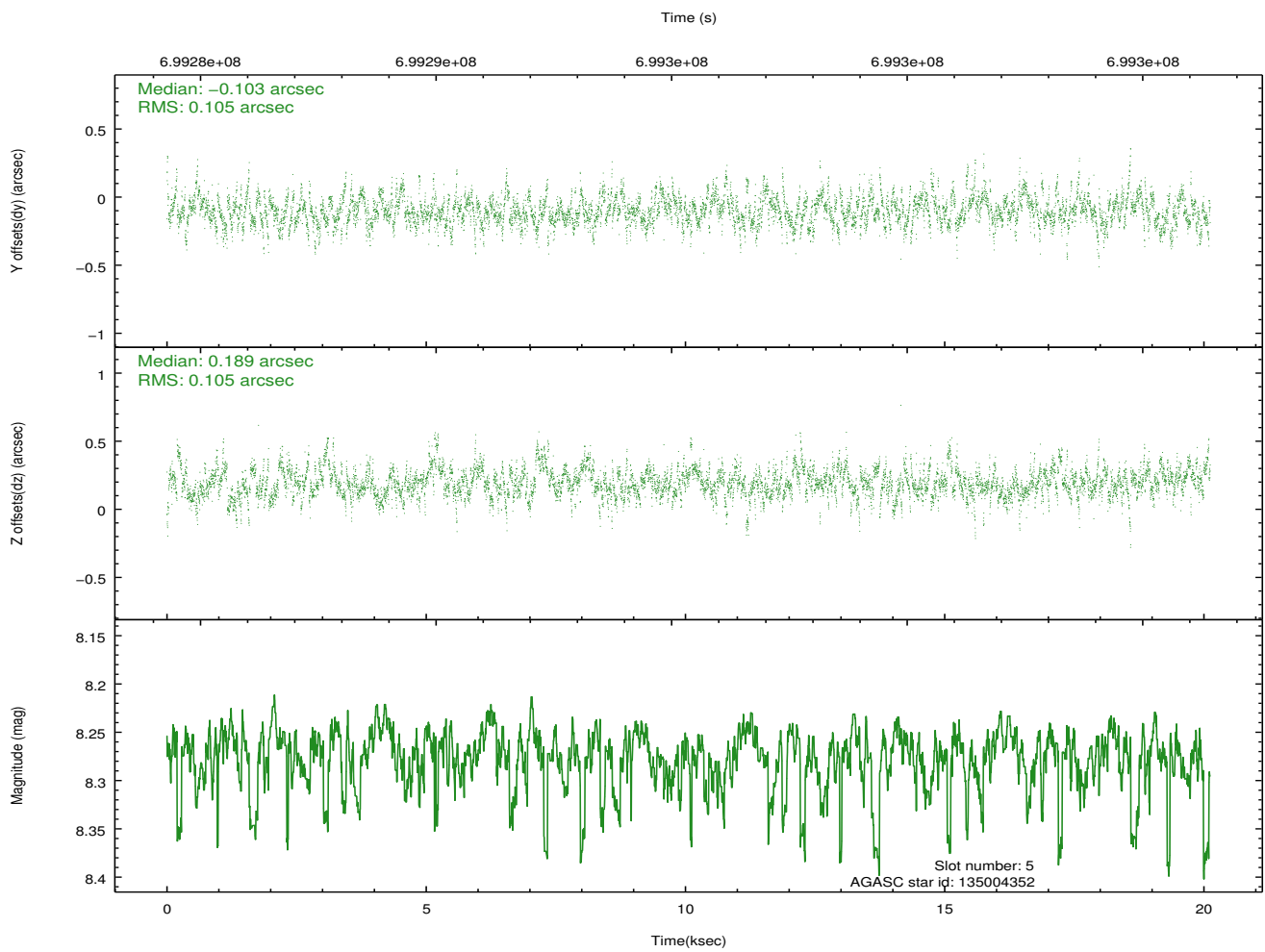
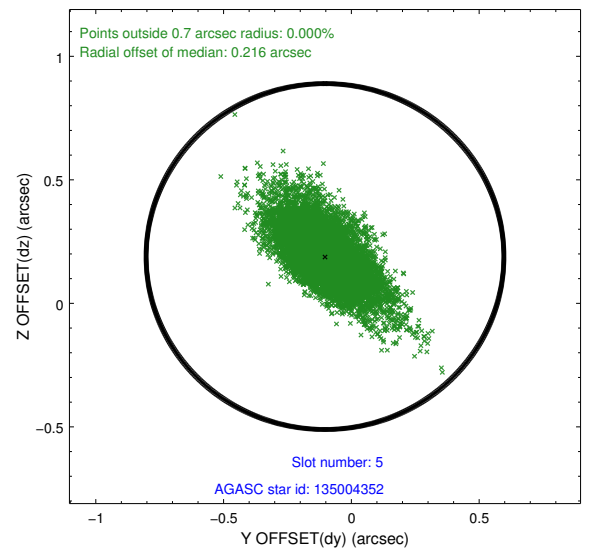
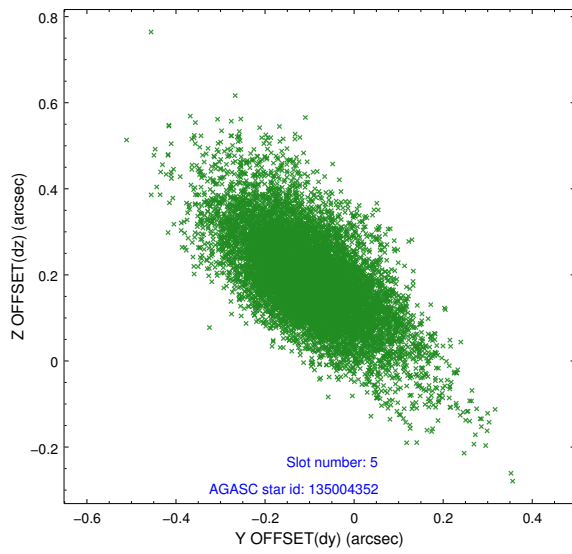
2.4.1 Slot 3



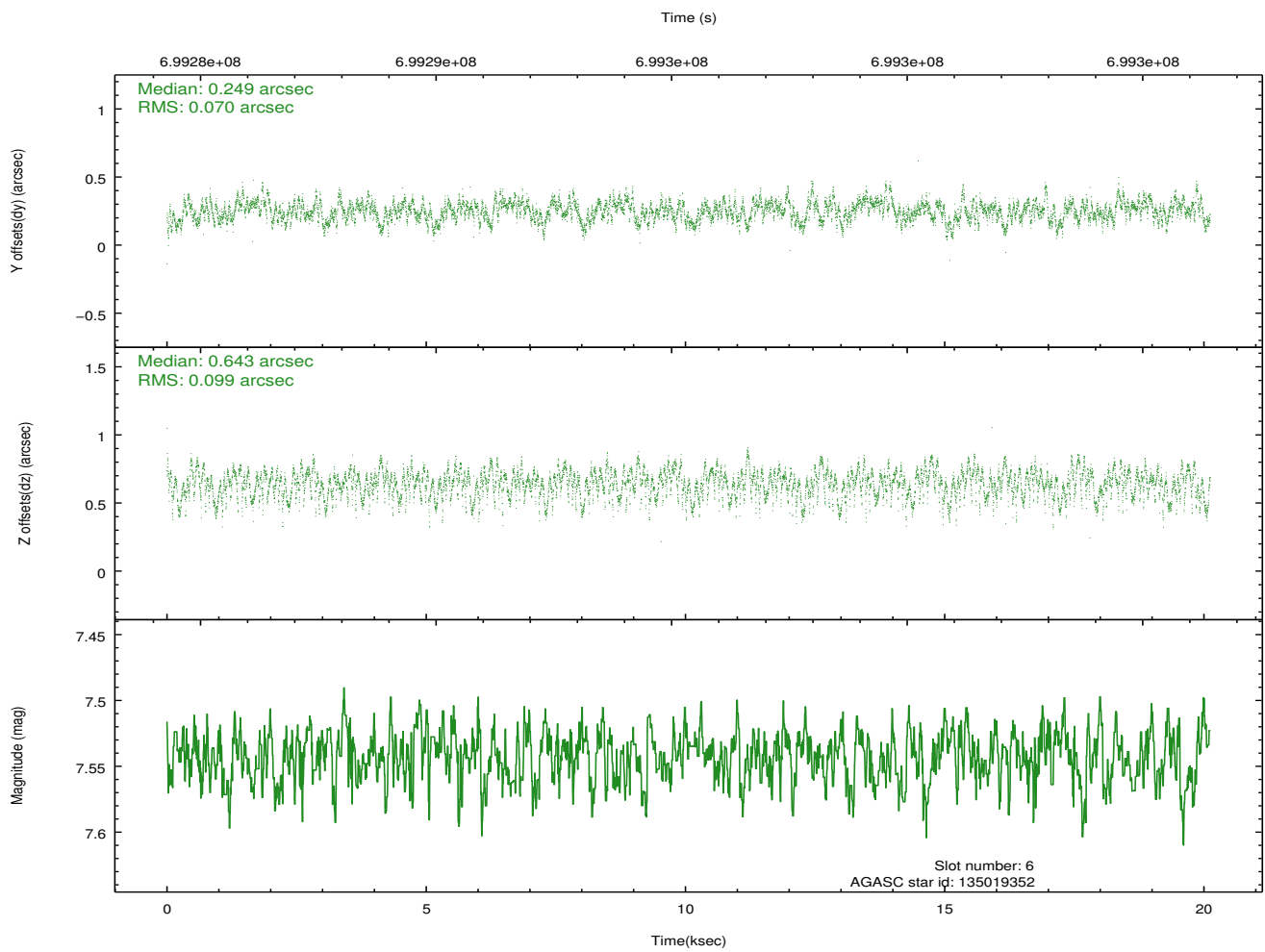
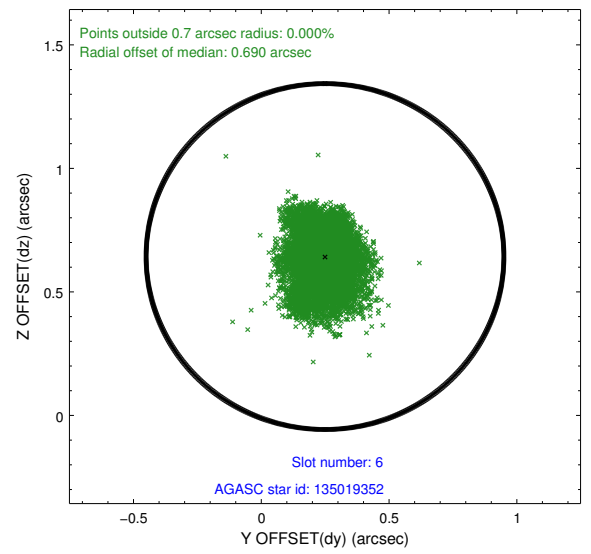
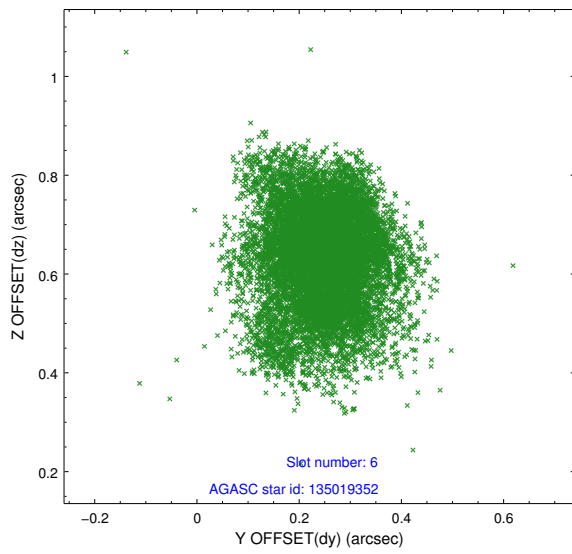
2.4.2 Slot 4



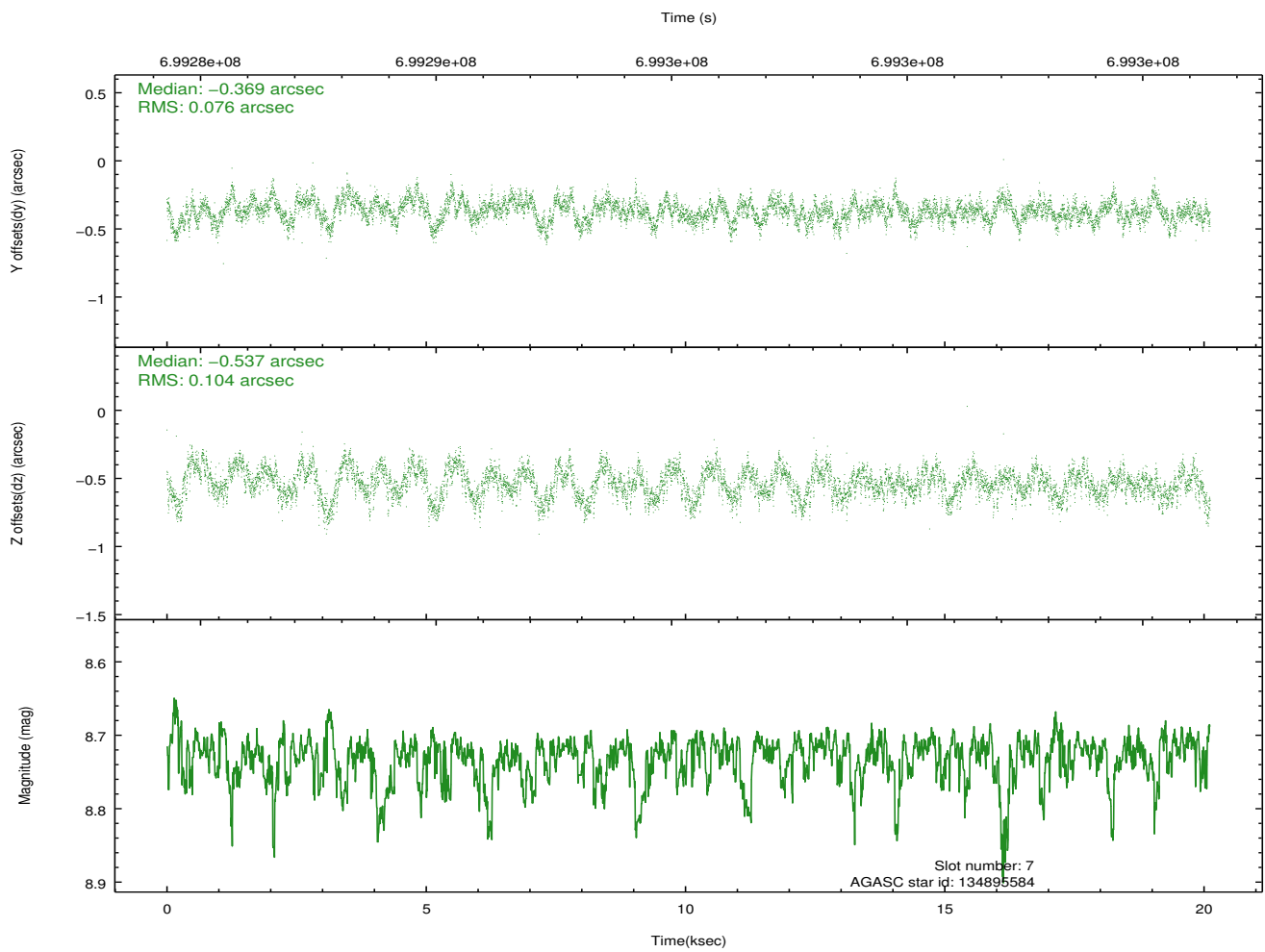
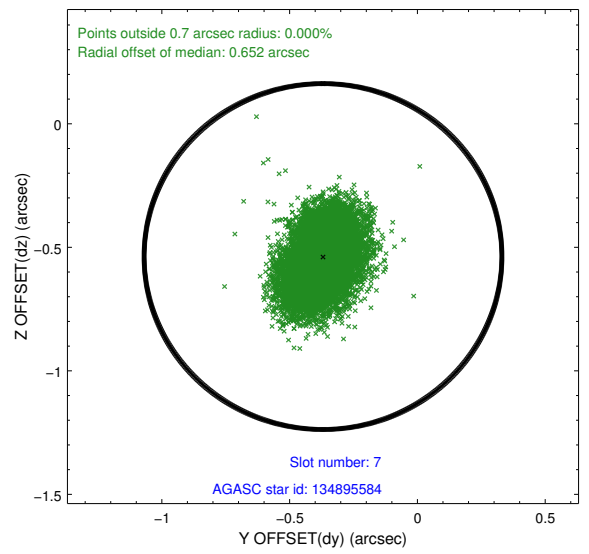
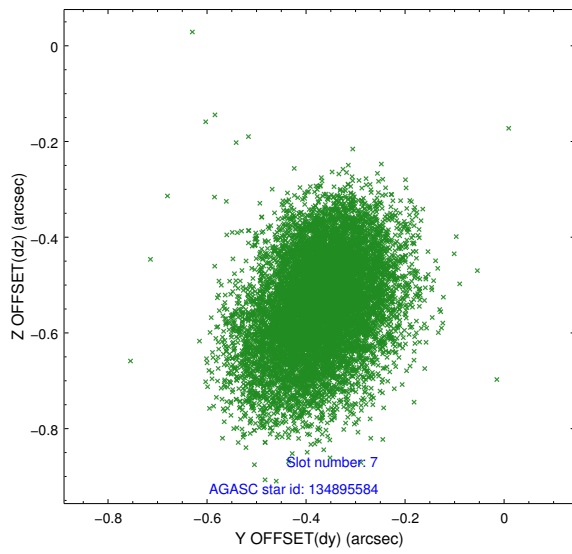
2.4.3 Slot 5



2.4.4 Slot 6

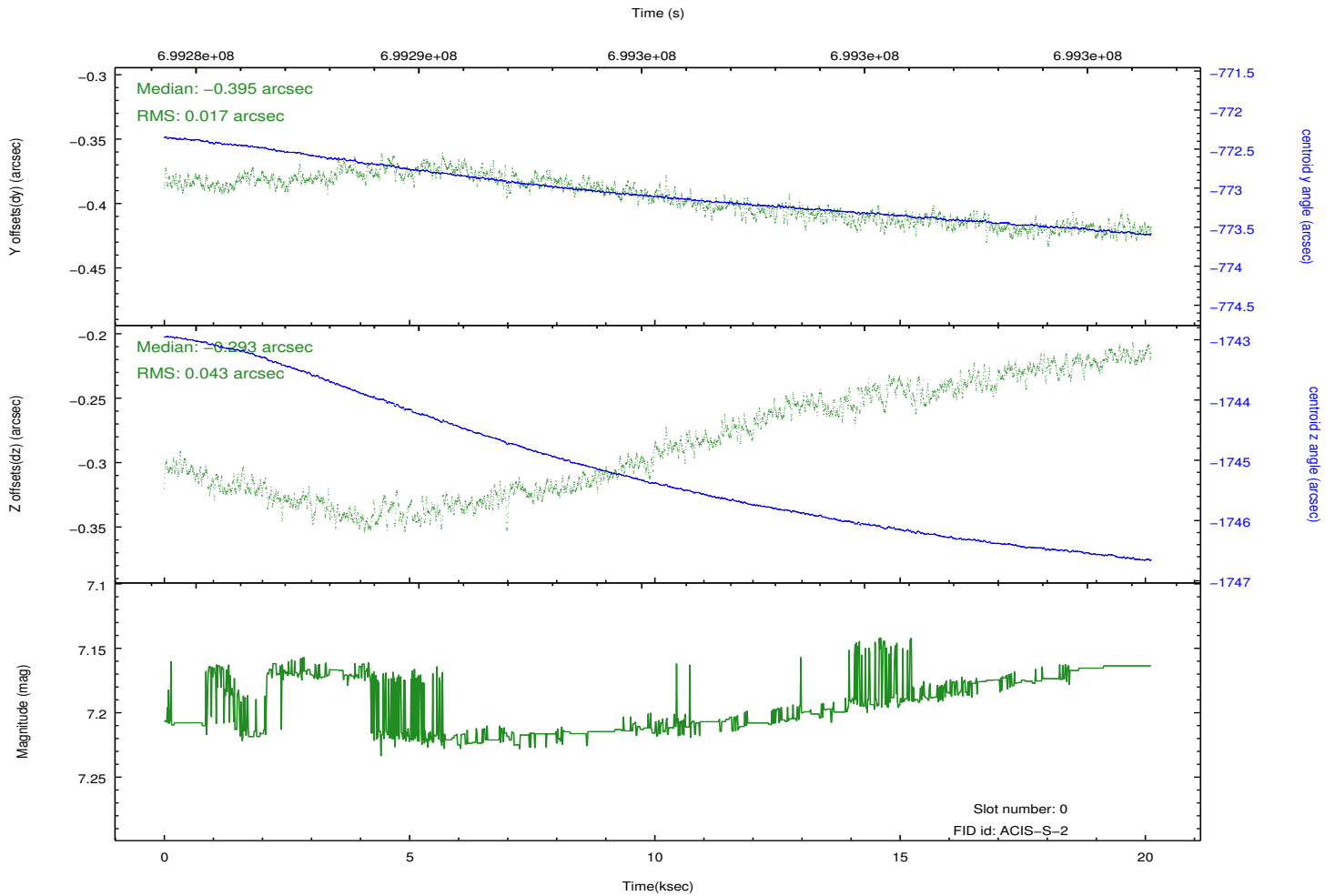
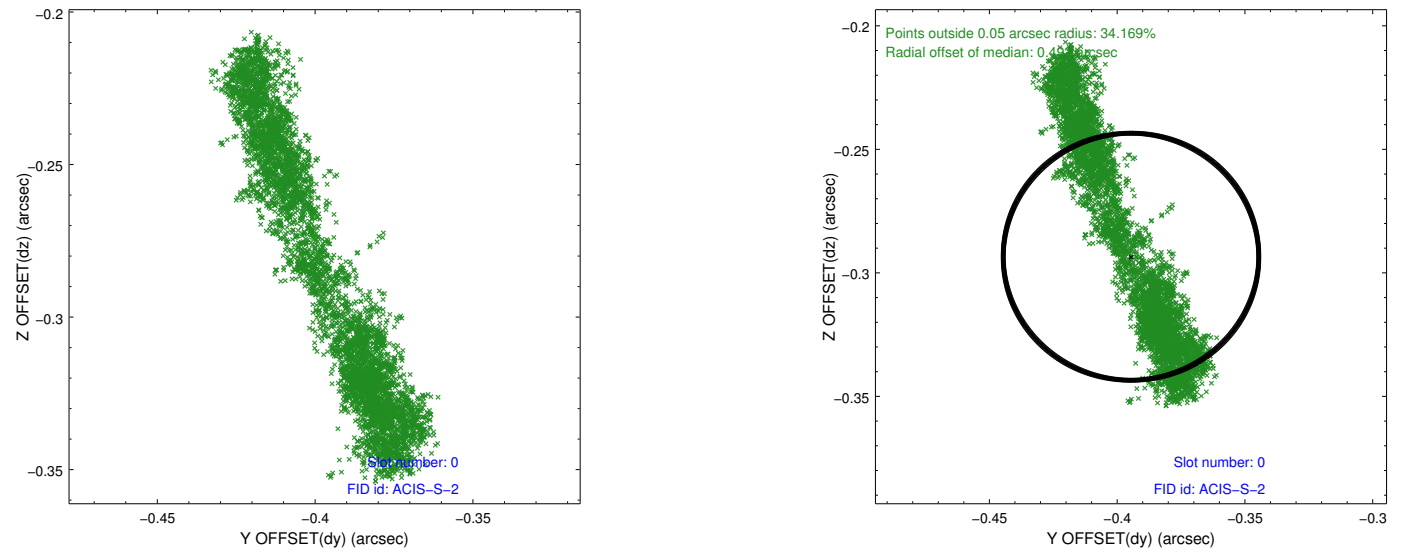


2.4.5 Slot 7

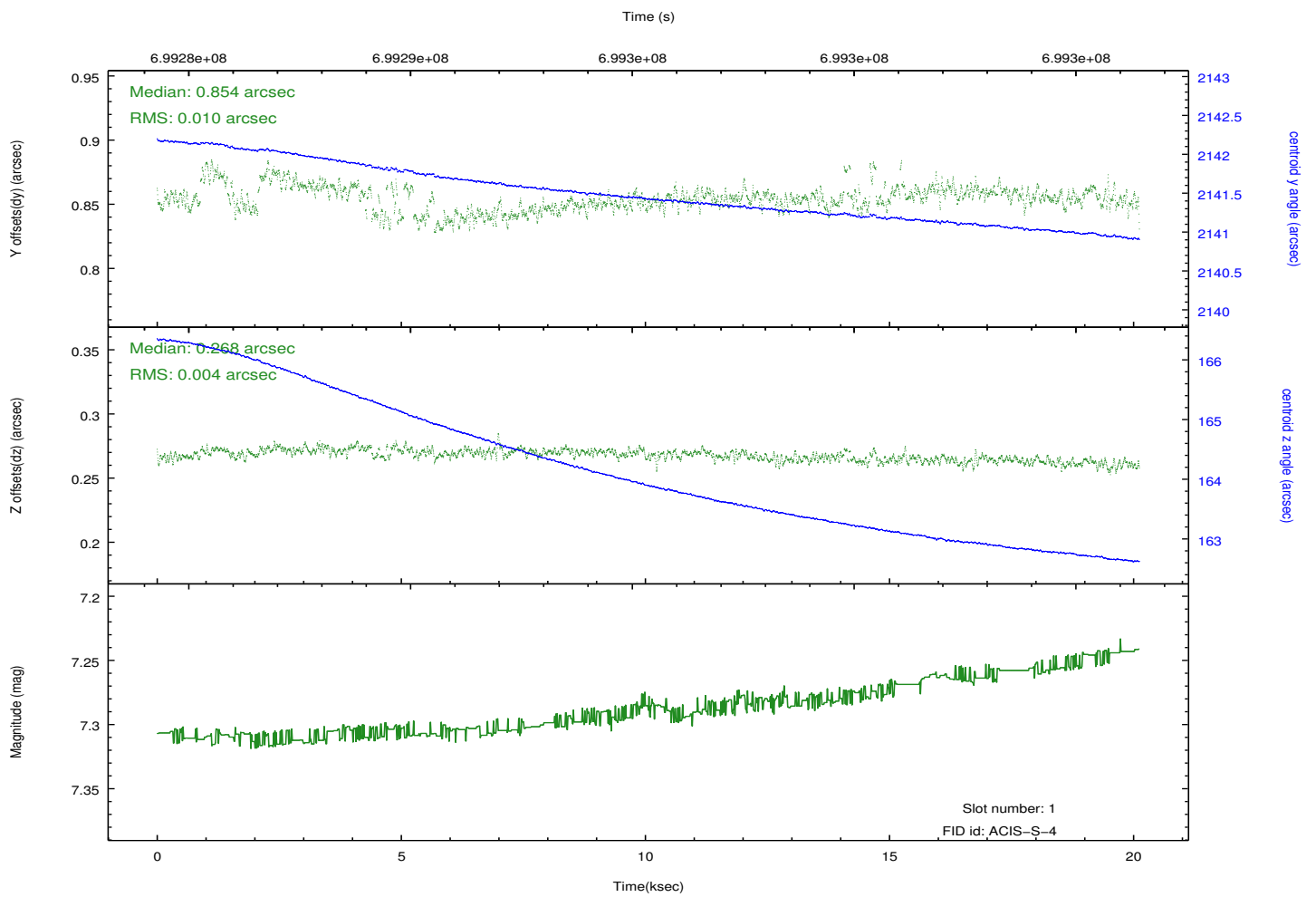
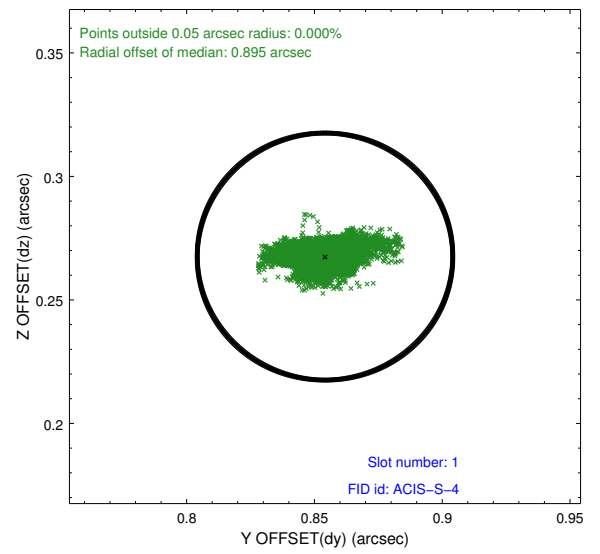
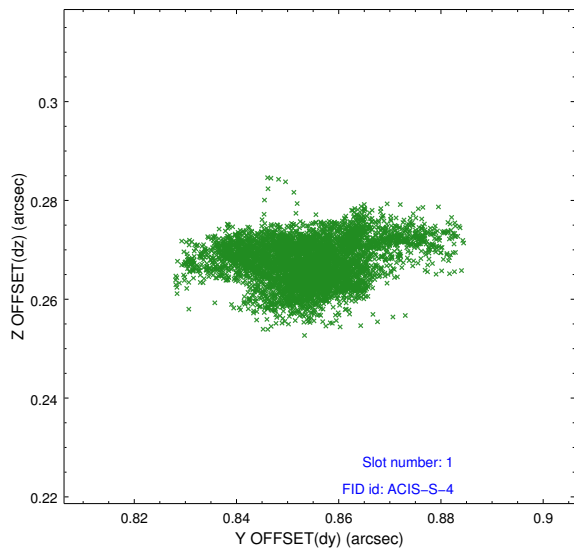


2.5 FID Slots

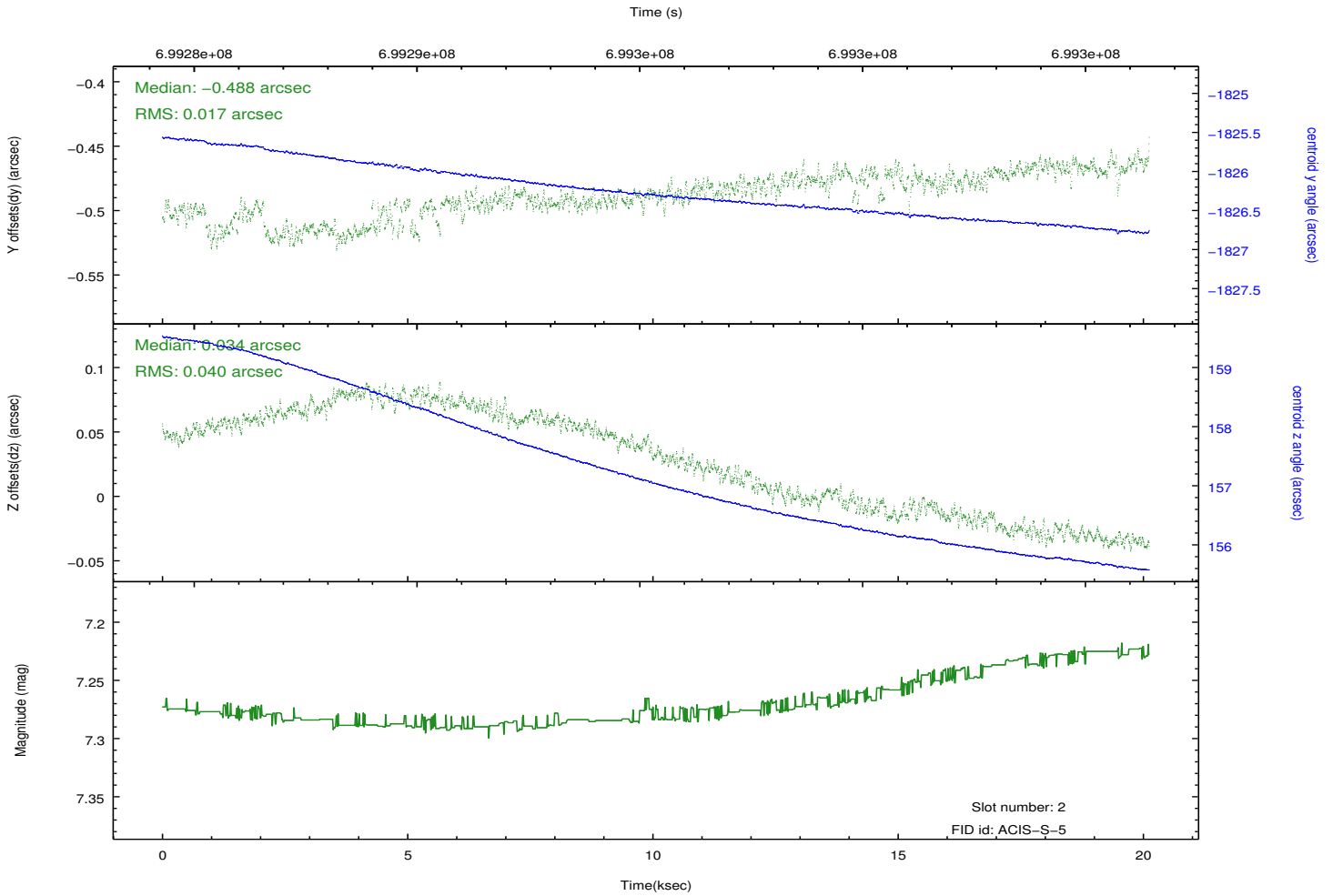
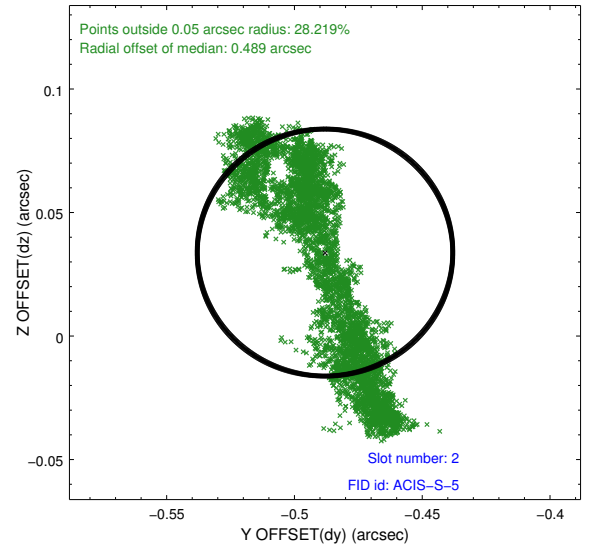
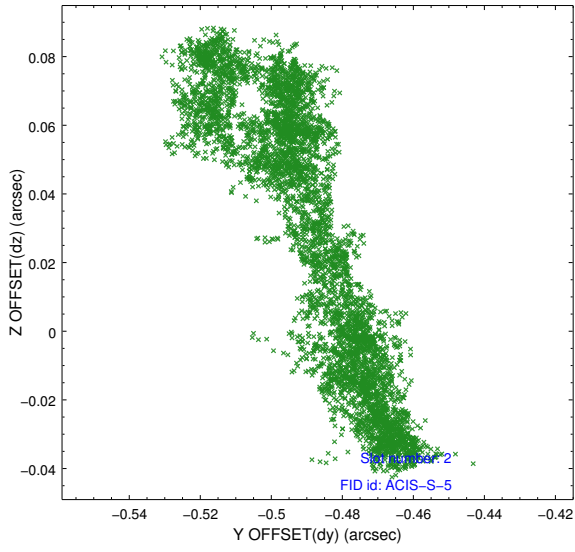
2.5.1 Slot 0



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)	2020.03.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.061792533278

A.2 Comments