

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21712 - L2 Version 1
Chandra X-Ray Center

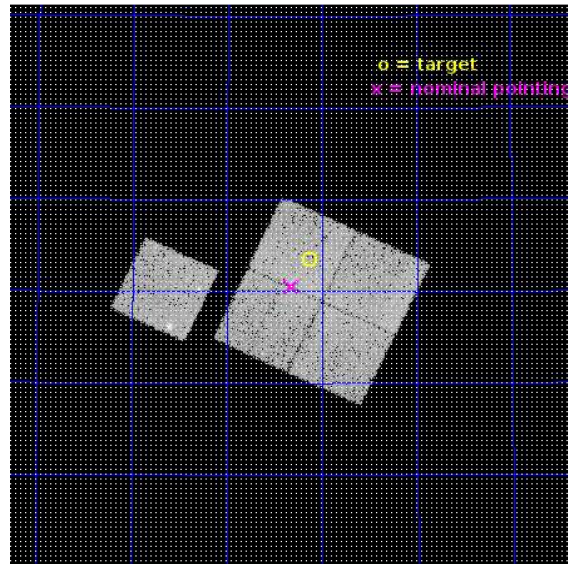
L2 Processing Date : Sep 5 2019

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1 Front

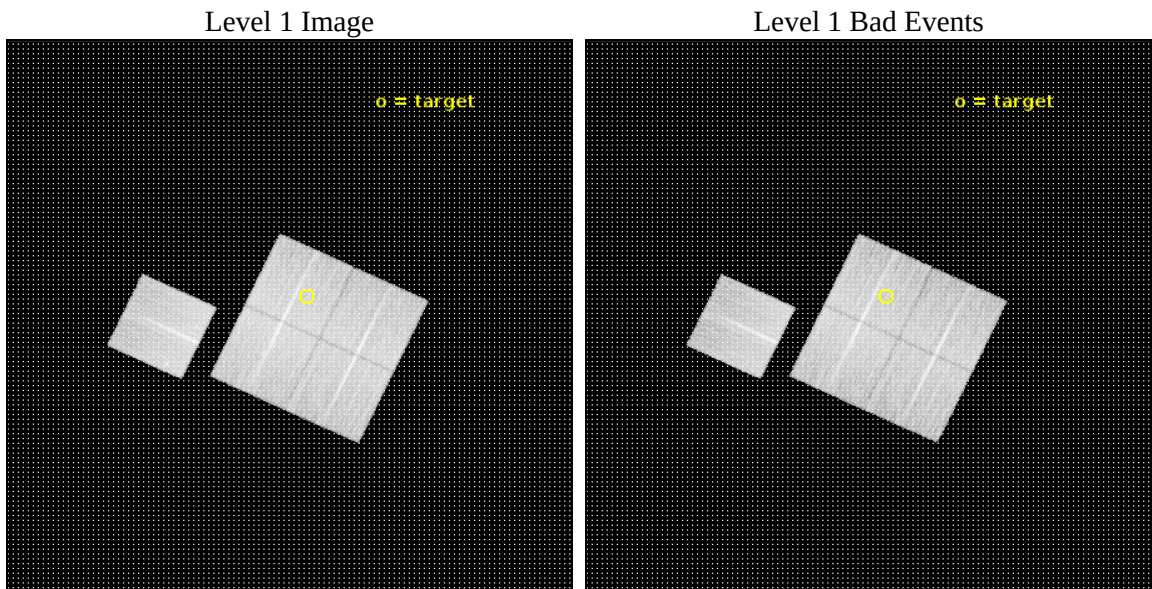
seq_num	801858	Sequence number
obs_id	21712	Observation id
title	Snapshot Survey of LOFAR-selected Galaxy Clusters	Proposal title
observer	Ralph Kraft	Principal investigator
object	Abell 1904	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	215.533333	Observer's specified target RA [deg]
dec_targ	48.556667	Observer's specified target Dec [deg]
ra_nom	215.58065429541	Nominal RA [deg]
dec_nom	48.508400368663	Nominal Dec [deg]
roll_nom	295.26435070206	Nominal Roll [deg]
revision	1	Processing version of data
ontime	19888.349845529	Sum of GTIs [s]
livetime	19628.493913207	Livetime [s]
ontime0	19888.226715803	Sum of GTIs [s]
ontime1	19891.408745885	Sum of GTIs [s]
ontime2	19891.449785948	Sum of GTIs [s]
ontime3	19888.349845529	Sum of GTIs [s]
ontime6	19885.04470551	Sum of GTIs [s]
l2events	78525	Number of level 2 events



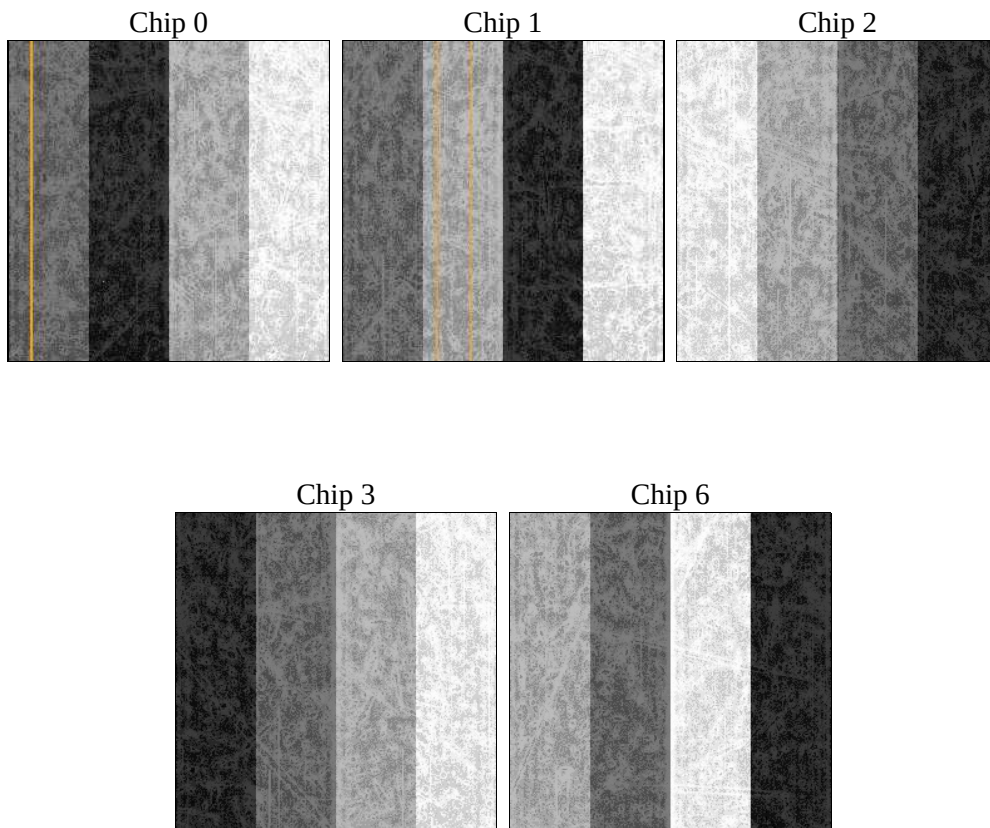
2 OBI

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	Processing system revision	ontime	19888.349845529	Sum of GTIs [s]
caldsver	4.8.4	 	ontime0	19888.226715803	Sum of GTIs [s]
date	2019-09-05T04:56:27	Date and time of file creation	ontime1	19891.408745885	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	19891.449785948	Sum of GTIs [s]
			ontime3	19888.349845529	Sum of GTIs [s]
			ontime6	19885.04470551	Sum of GTIs [s]
			l1events	741594	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	139954	142742	156572	152597	149729
rejected events	121700	122937	138634	133745	131696
rejected %	86%	86%	88%	87%	87%

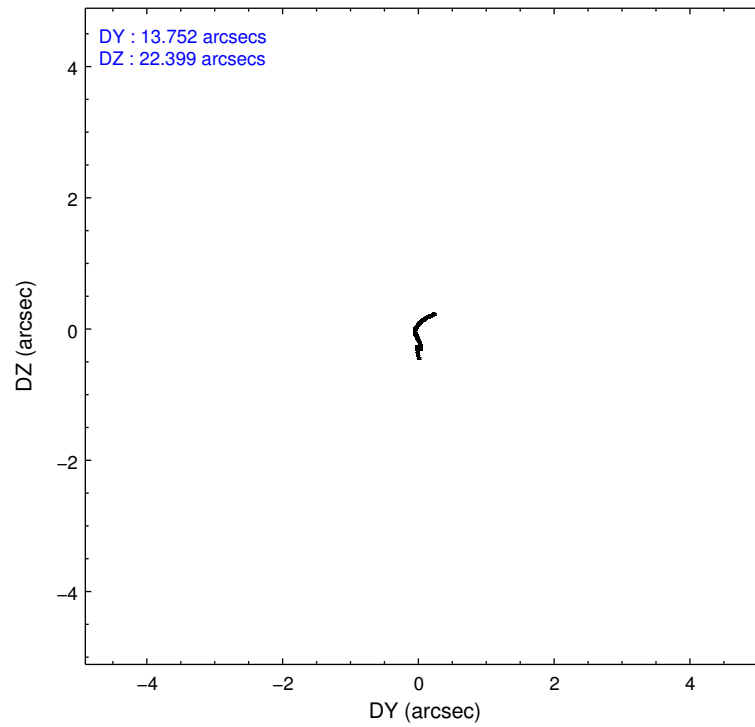
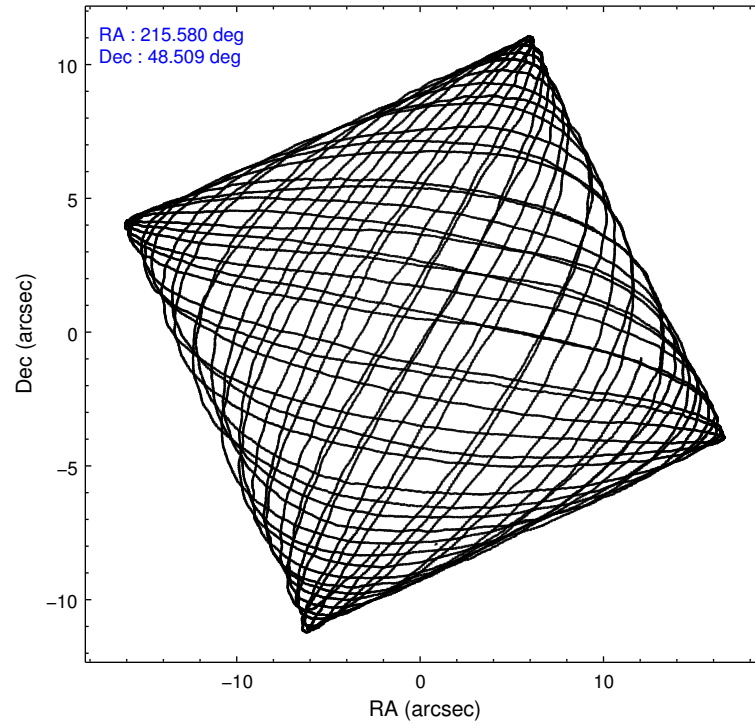
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	6864	7006	6931	8221	6411
	4%	4%	4%	5%	4%
grade 1 events	81	93	84	99	64
	0%	0%	0%	0%	0%
grade 2 events	4585	5014	4347	3805	4114
	3%	3%	2%	2%	2%
grade 3 events	1706	1765	1659	1761	1714
	1%	1%	1%	1%	1%
grade 4 events	1654	1839	1810	1702	1668
	1%	1%	1%	1%	1%
grade 5 events	6254	6613	6039	7154	7076
	4%	4%	3%	4%	4%
grade 6 events	3453	4186	3193	3369	4138
	2%	2%	2%	2%	2%
grade 7 events	115357	116226	132509	126486	124544
	82%	81%	84%	82%	83%

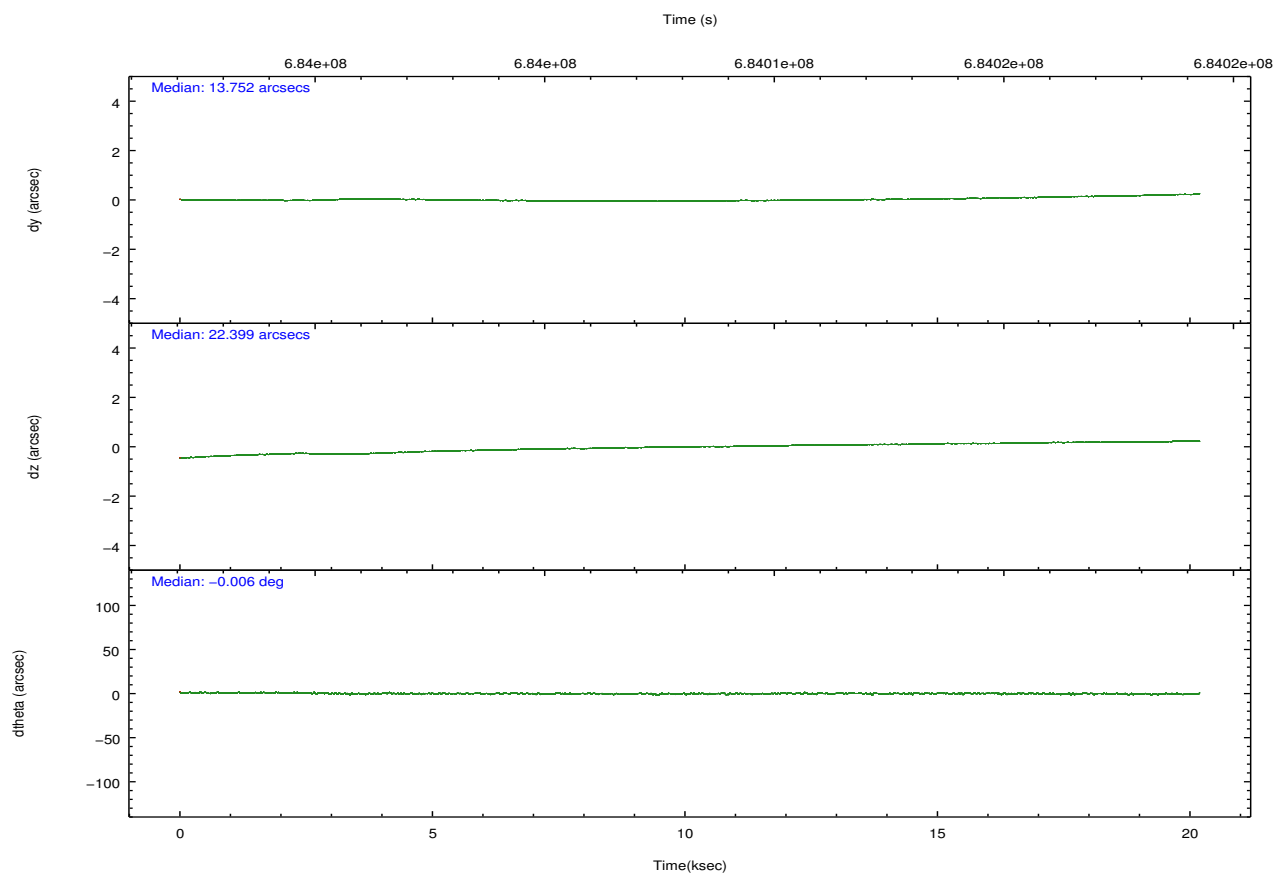
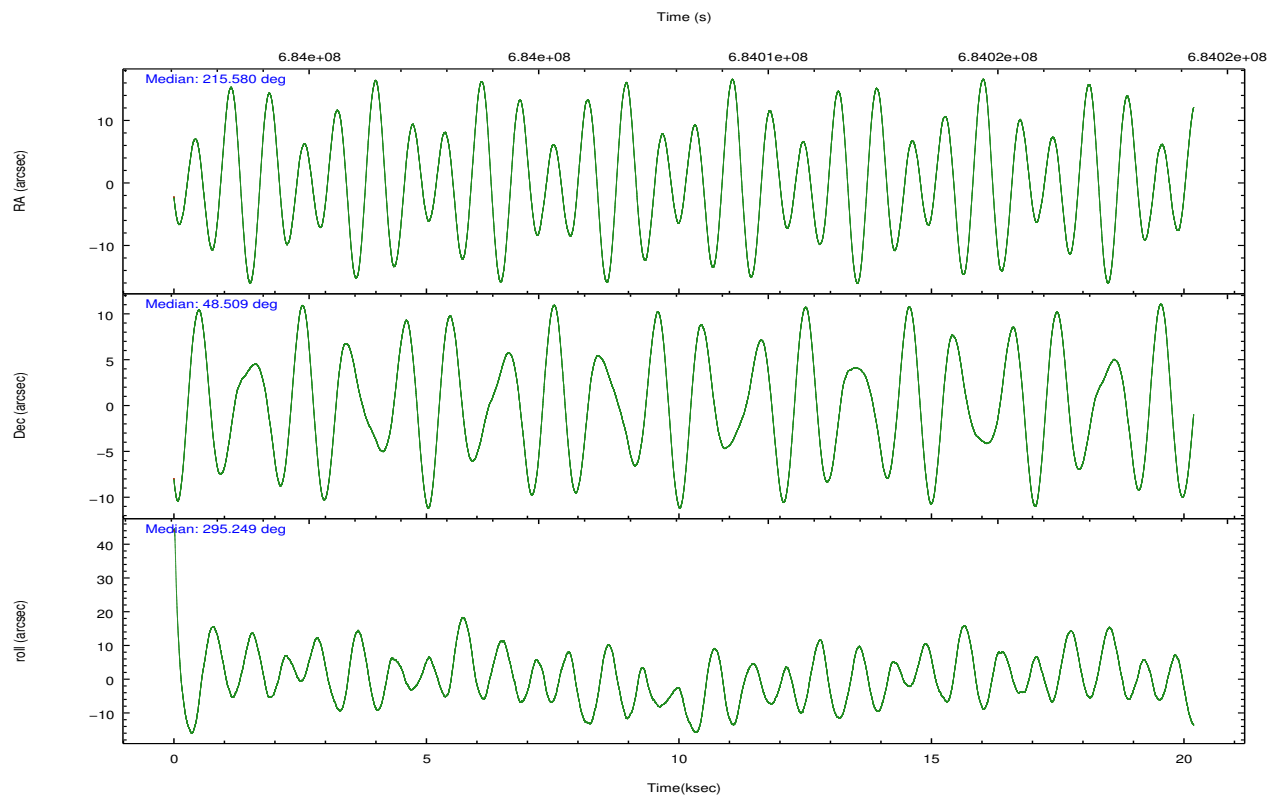
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-01236	ACIS-01236
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	215.546339	215.5806542954139
[deg] Pointing Dec	48.524068	48.5084003686629
[deg] Pointing Roll	295.081333	295.264350702055
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.001439871863259334
[mm] SIM translation stage pos	-225.842463	-225.8433433320239
[mm] SIM translation stage offset	-7.75	-7.749109670905796
[s] Observation start time (MET)	683998278.184000	683997671.2889
Observation start date	2019-09-04T15:30:09	2019-09-04T15:21:11
[s] Observation end time (MET)	684018278.184000	684018882.1276799
Observation end date	2019-09-04T21:03:29	2019-09-04T21:14:42
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	Y	Y
CCD I1 on	Y	Y
CCD I2 on	Y	Y
CCD I3 on	Y	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	O1	Y
CCD S3 on	N	N
CCD S4 on	N	N
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



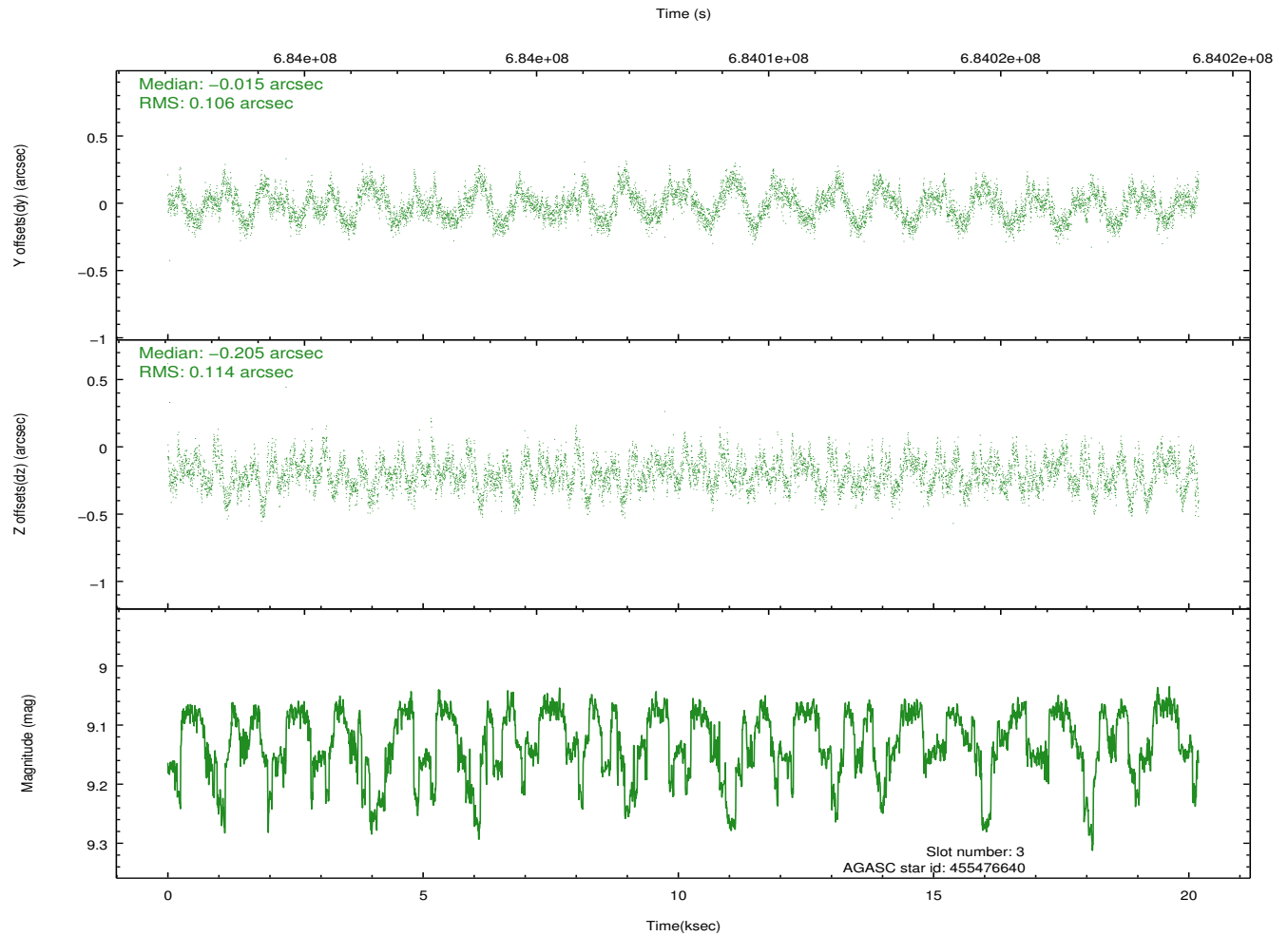
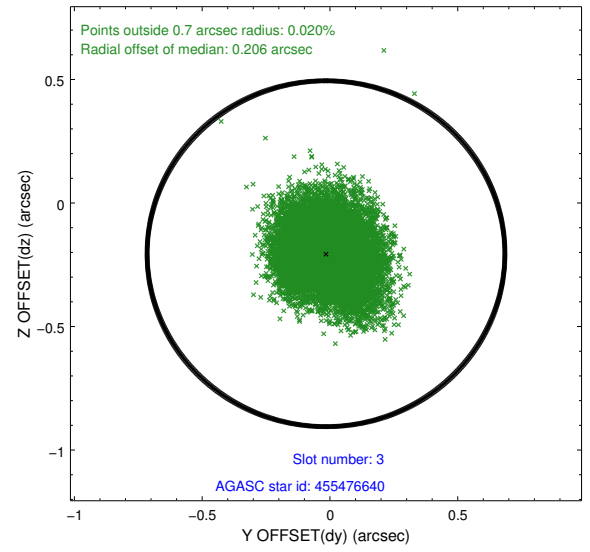
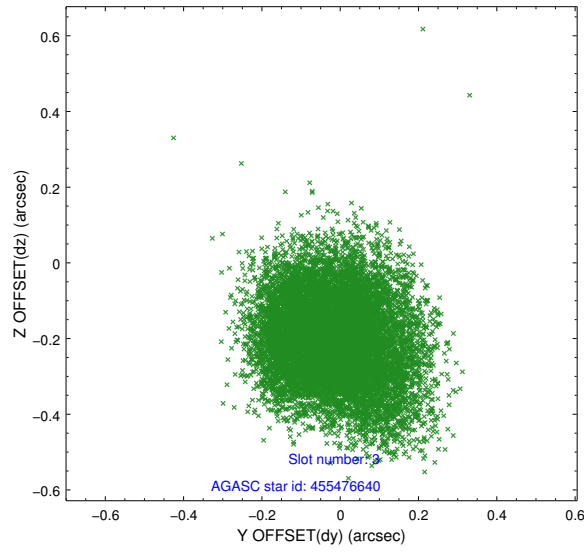


Slot Statistics

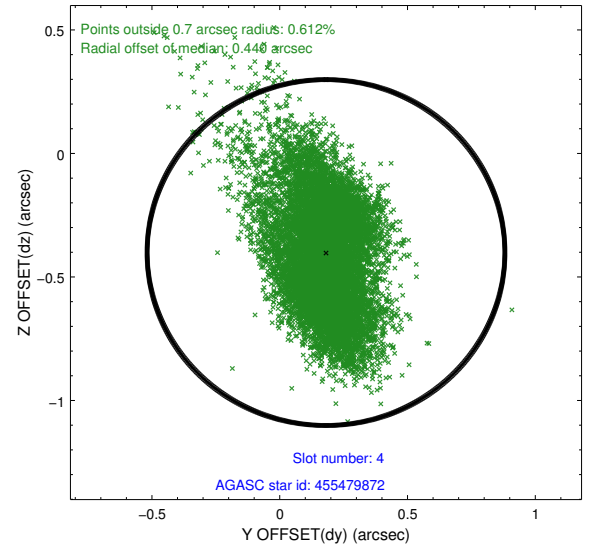
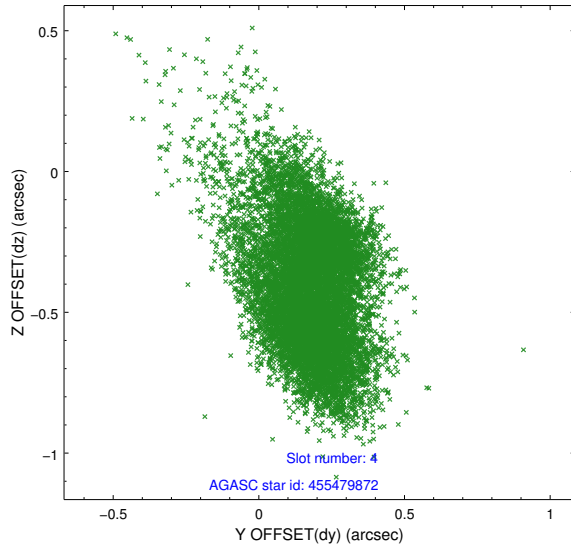
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.14	4925	1.000	0.176	-0.170	0.011	0.020	0.000000	0.000000	925.82	-1005
1	FID		ACIS-I-5	7.17	4925	1.000	-0.516	0.073	0.008	0.014	0.000000	0.000000	-1823.02	892
2	FID		ACIS-I-6	7.19	4926	1.000	0.249	0.168	0.009	0.017	0.000000	0.000000	391.04	1537
3	GUIDE	used	455476640	9.13	9829	1.000	-0.015	-0.205	0.168	0.261	215.025048	48.349758	37.29	-1392
4	GUIDE	used	455479872	9.46	9801	1.000	0.181	-0.401	0.254	0.444	216.049959	49.186700	-1661.16	2086
5	GUIDE	used	455481456	7.39	9848	1.000	-0.077	0.236	0.143	0.217	214.718471	48.592422	-1065.38	-1674
6	GUIDE	used	455483344	9.74	9822	1.000	-0.008	0.395	0.275	0.456	214.579667	48.297869	-254.93	-2434
7	GUIDE	used	455484472	8.55	9839	1.000	-0.067	-0.030	0.179	0.298	216.130402	49.297070	-1946.20	2421

2.4 Star Slots

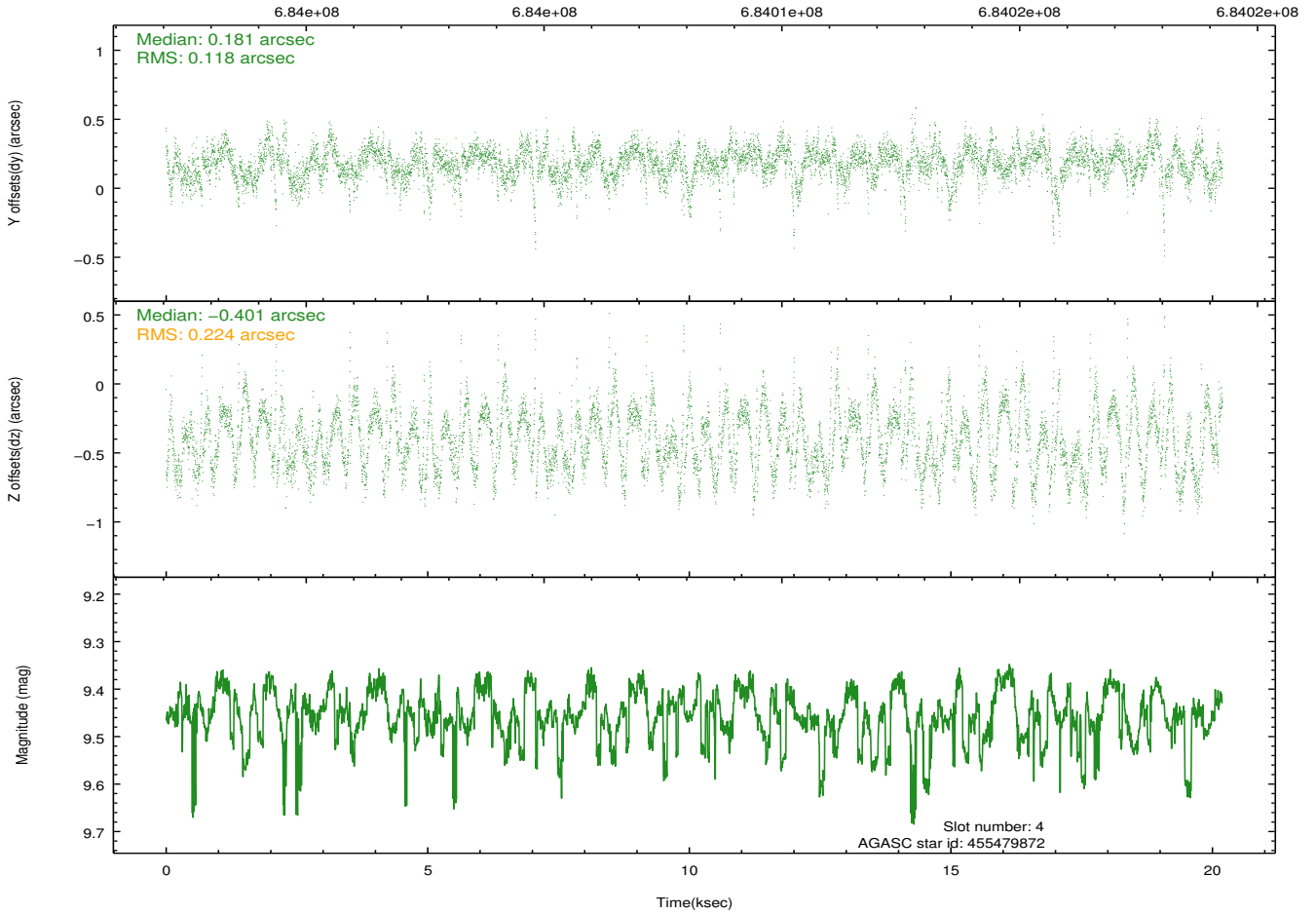
2.4.1 Slot 3



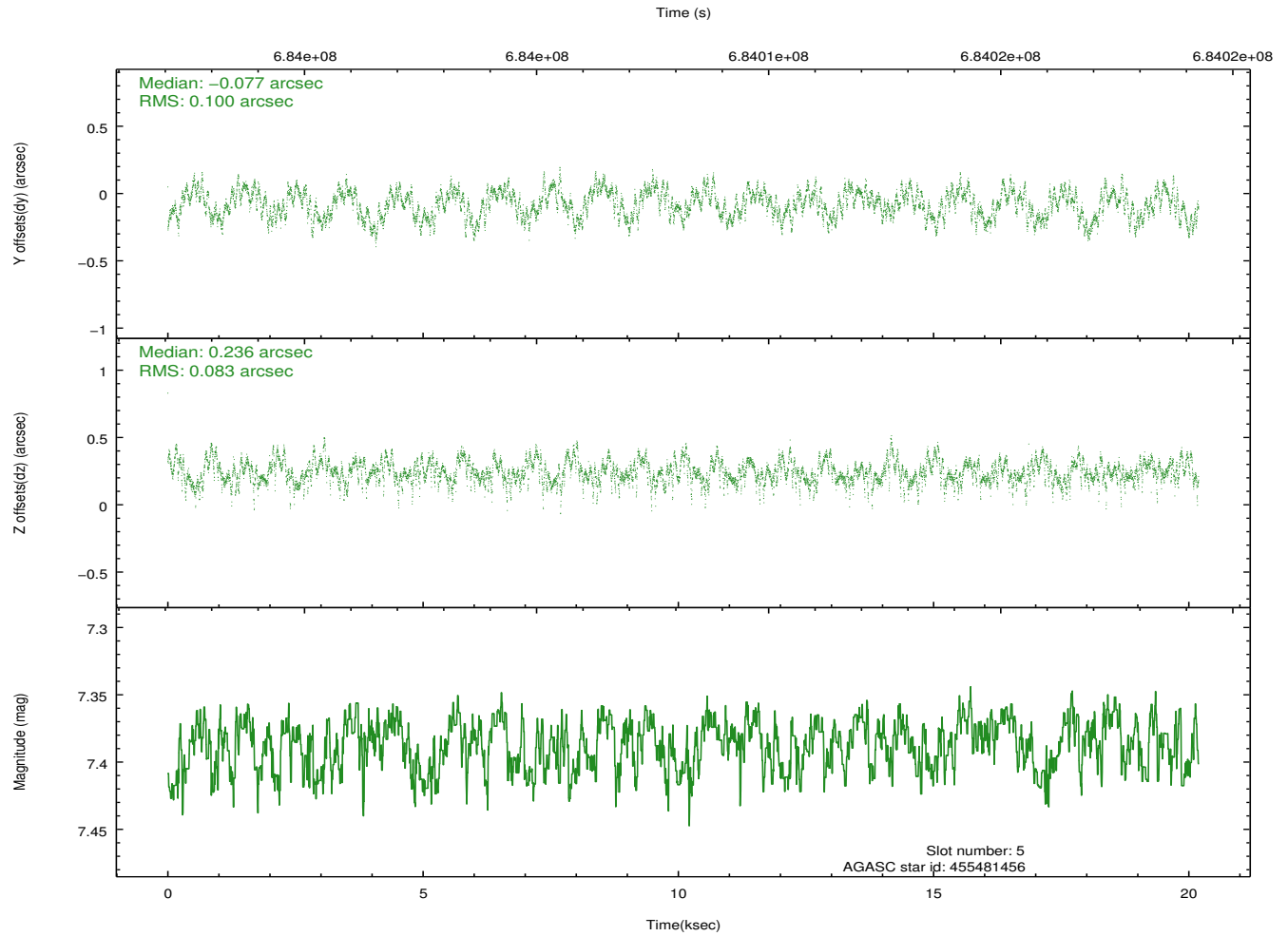
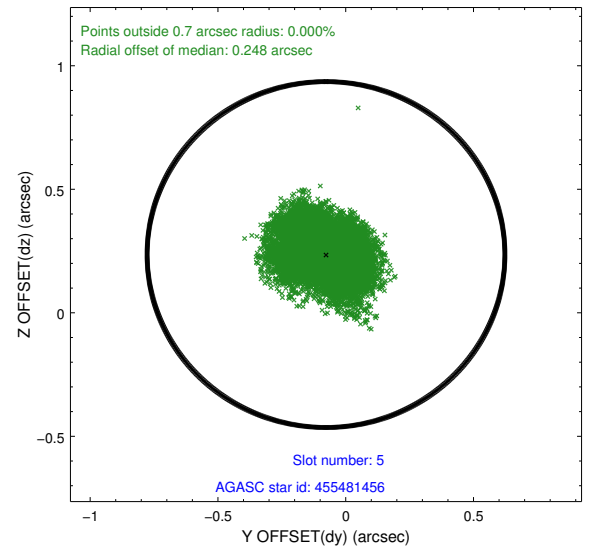
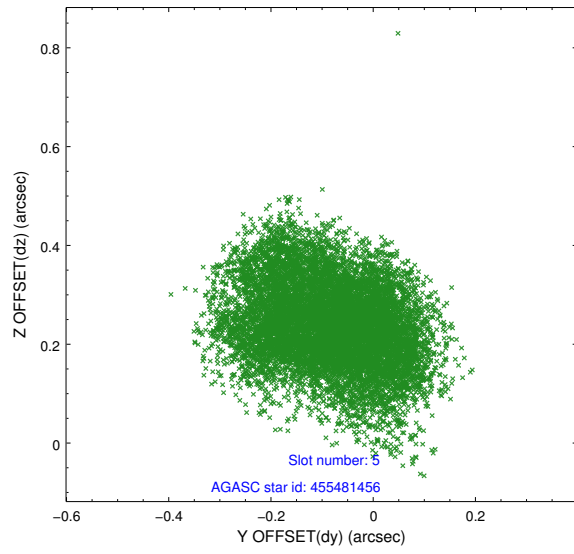
2.4.2 Slot 4



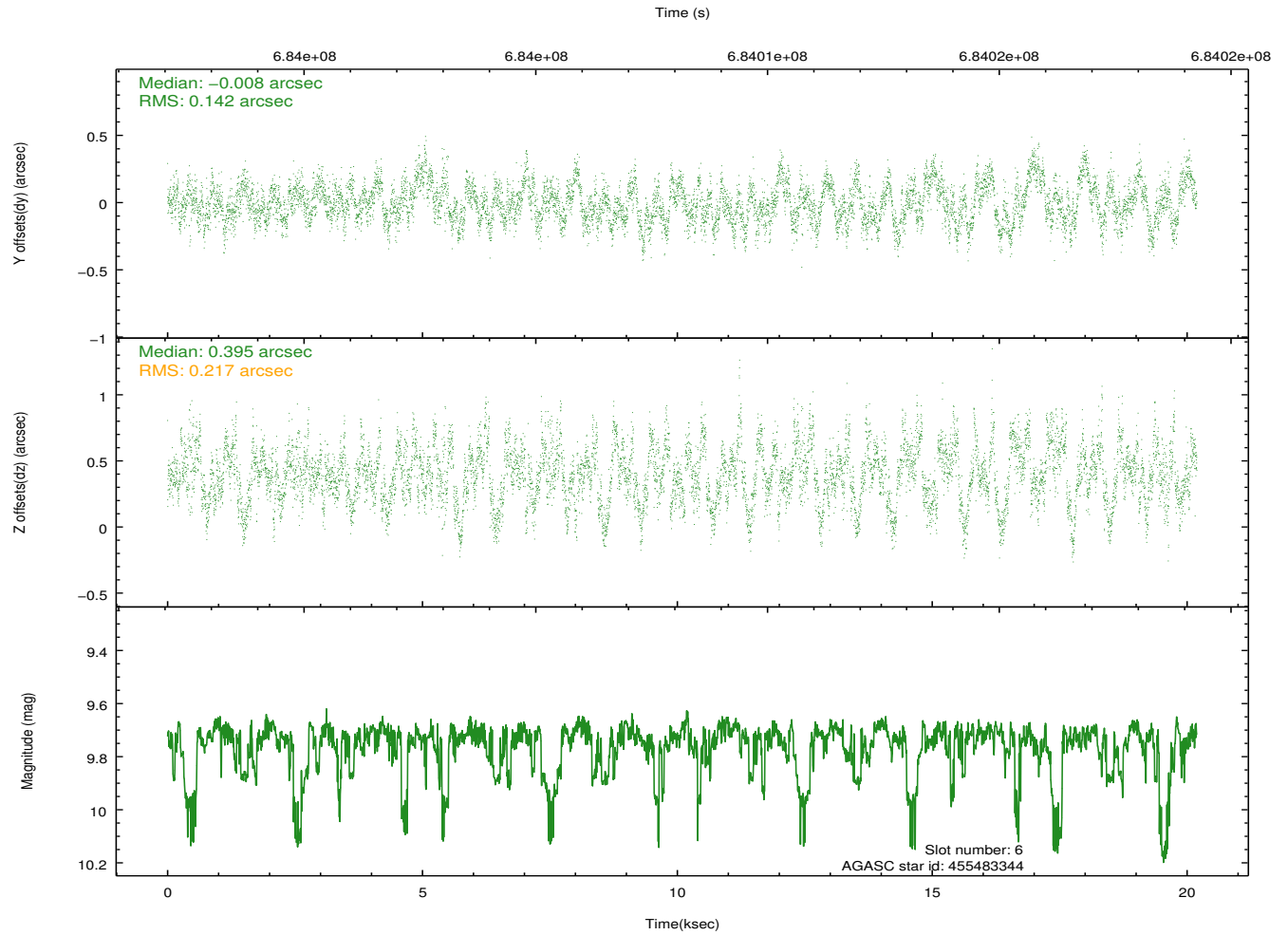
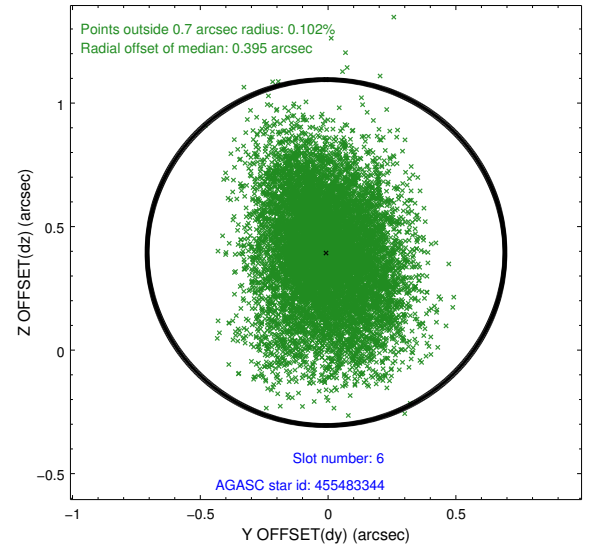
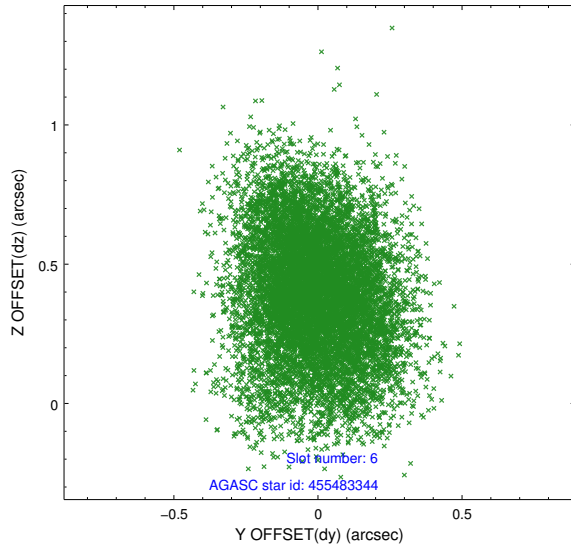
Time (s)



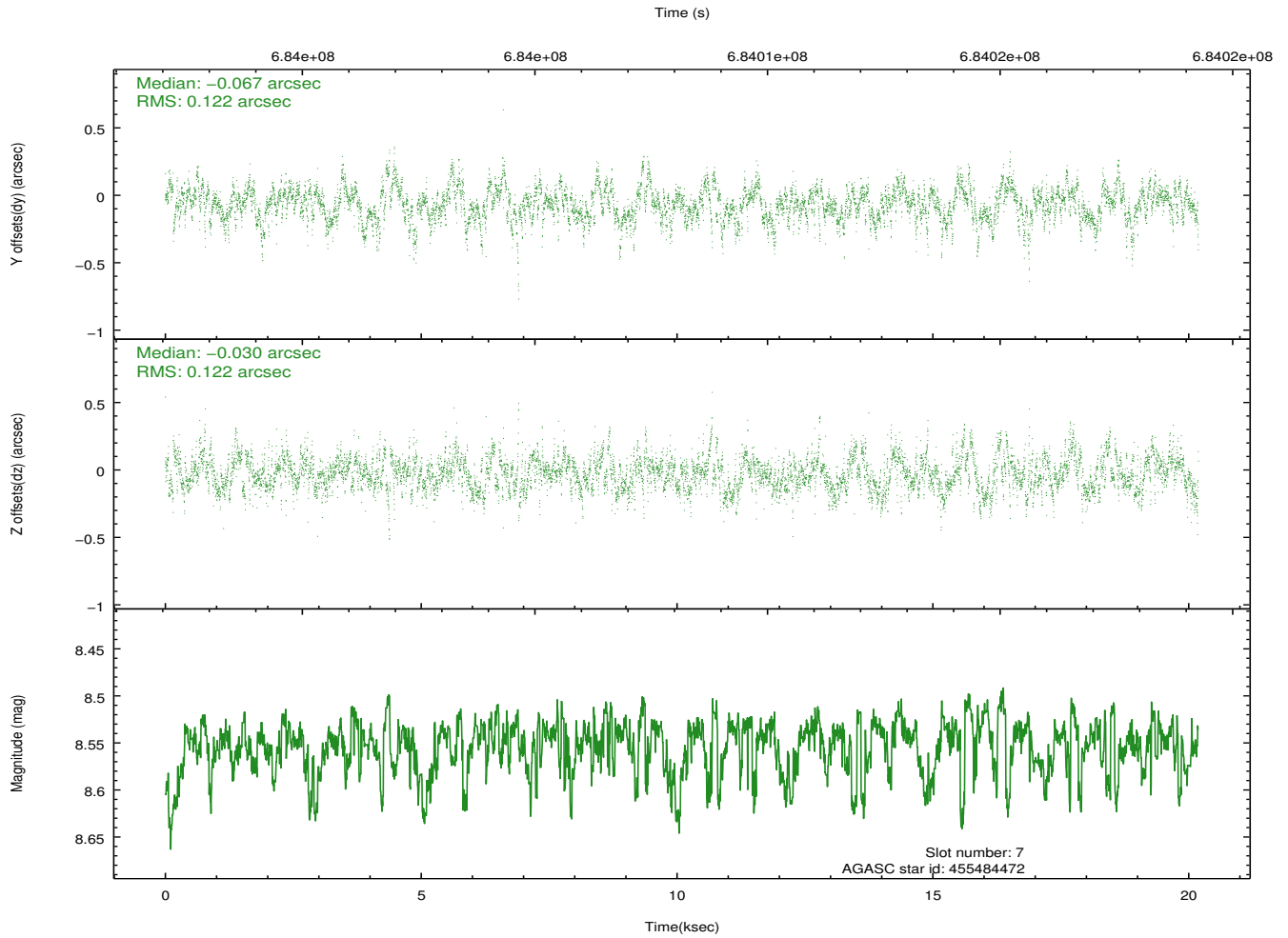
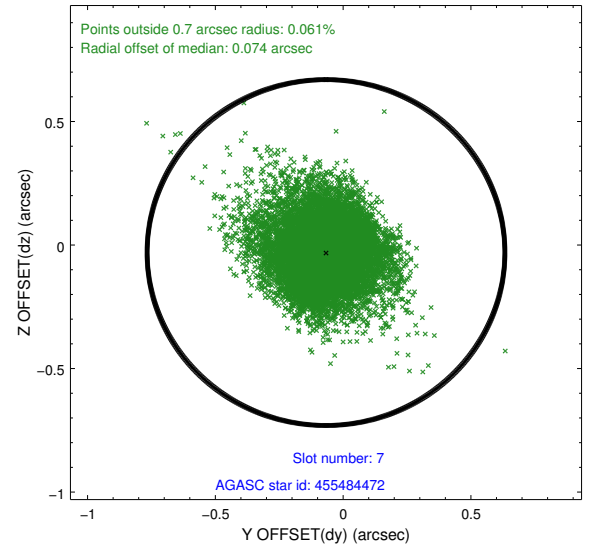
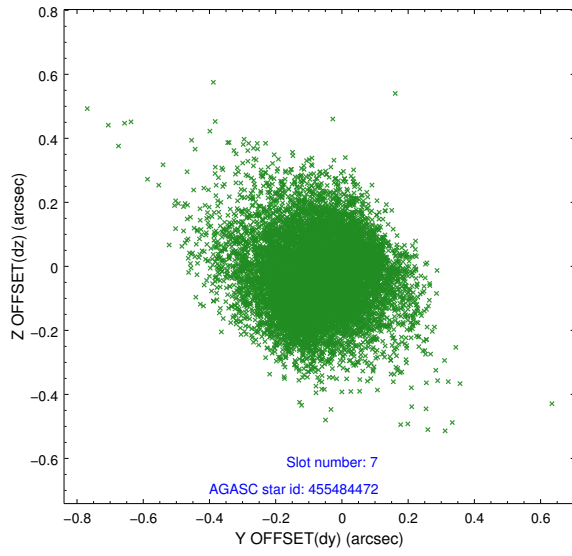
2.4.3 Slot 5



2.4.4 Slot 6

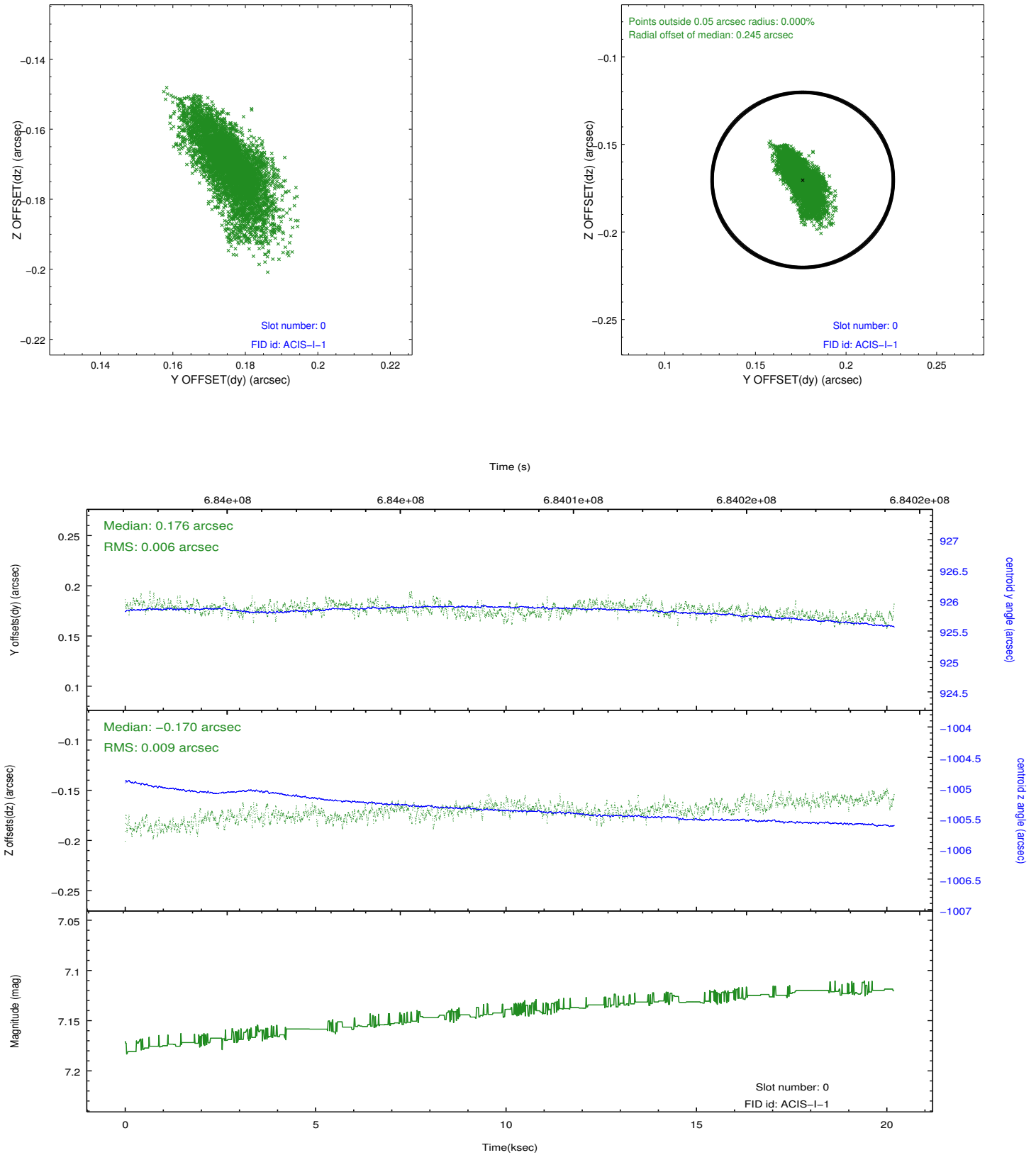


2.4.5 Slot 7

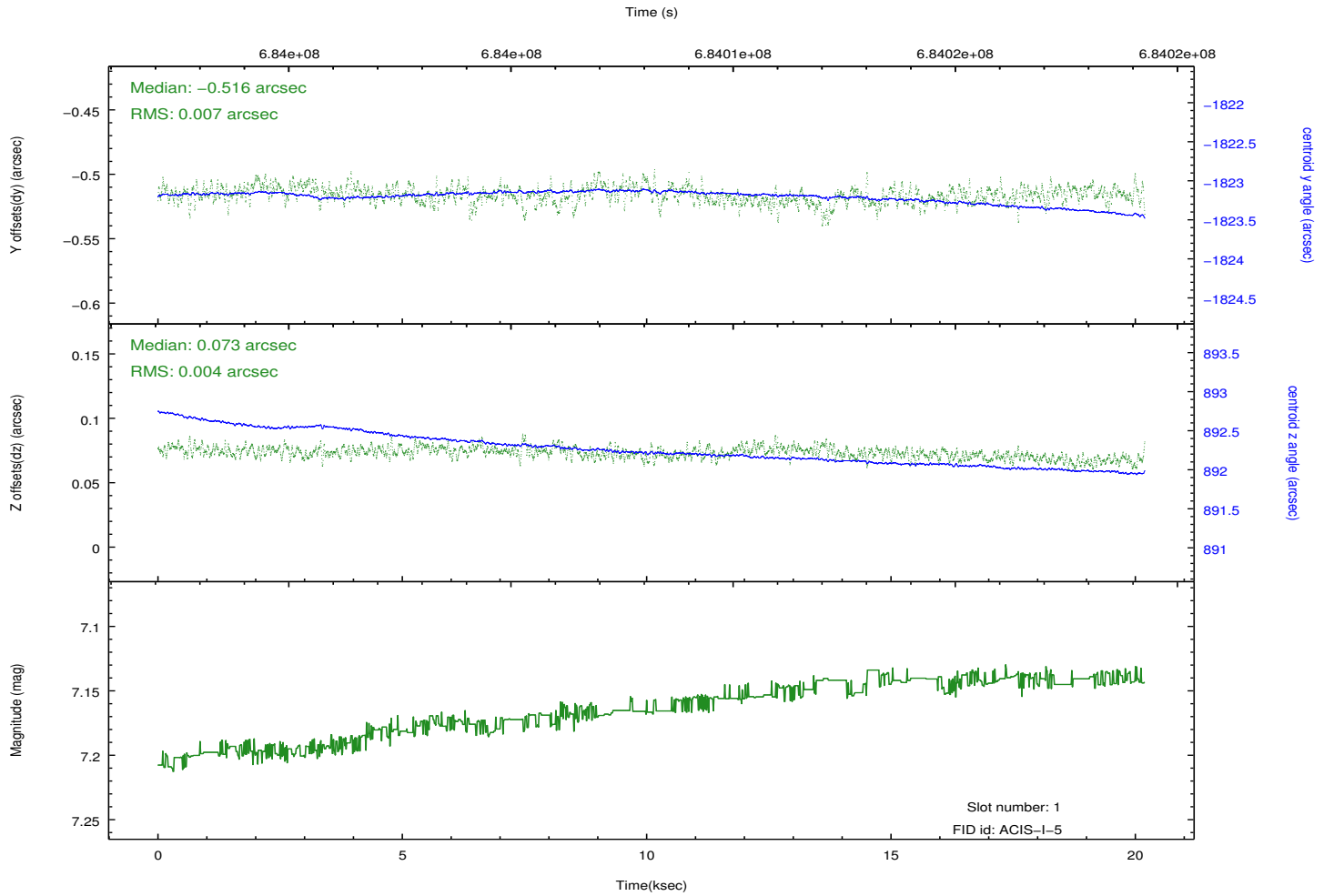
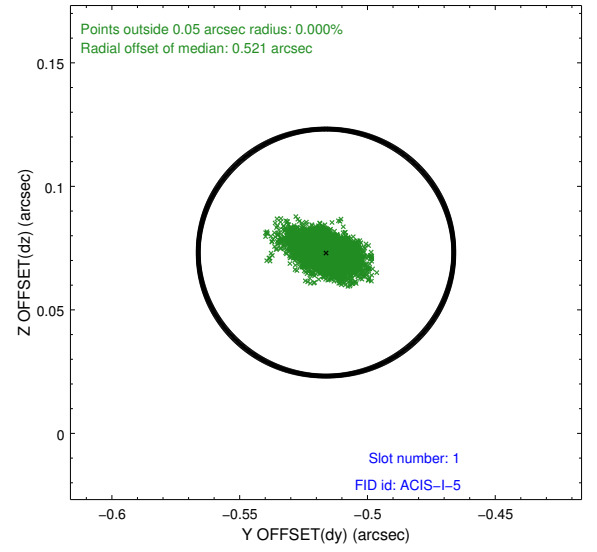
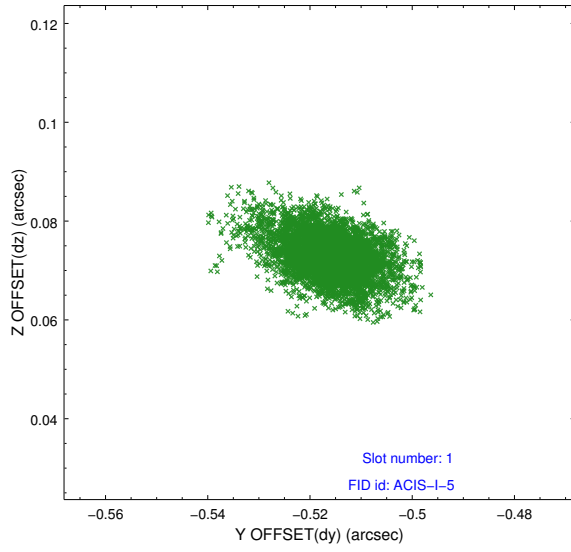


2.5 FID Slots

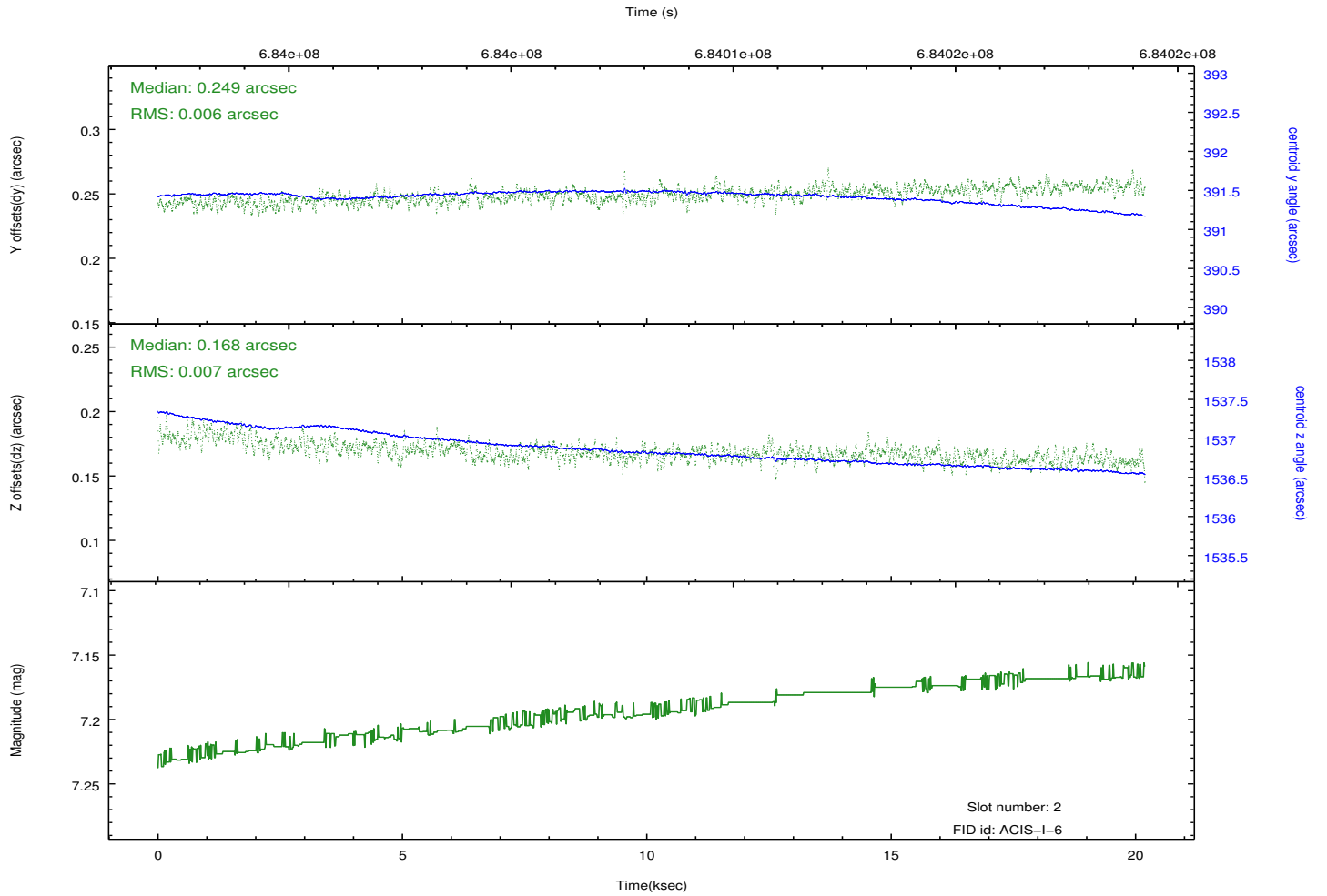
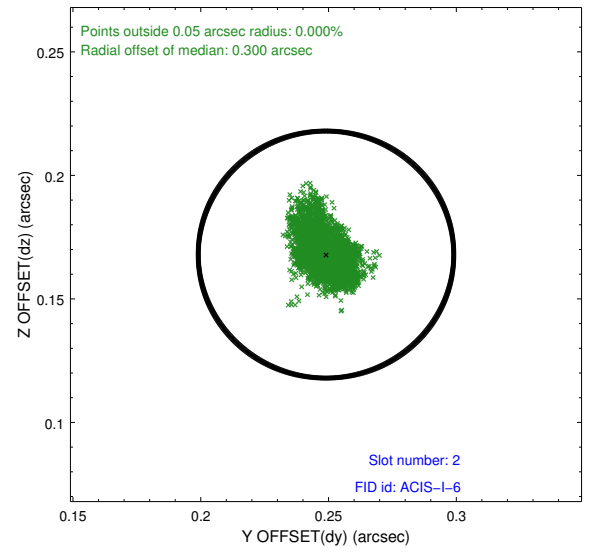
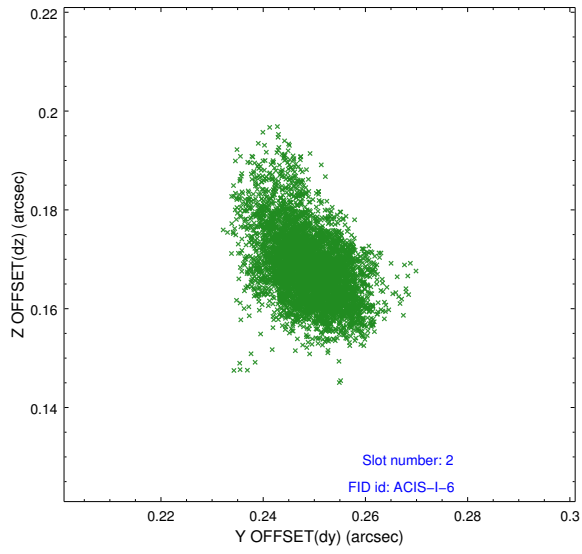
2.5.1 Slot 0



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)	2019.09.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.888349845529

A.2 Comments