

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18272 - L2 Version 2
Chandra X-Ray Center

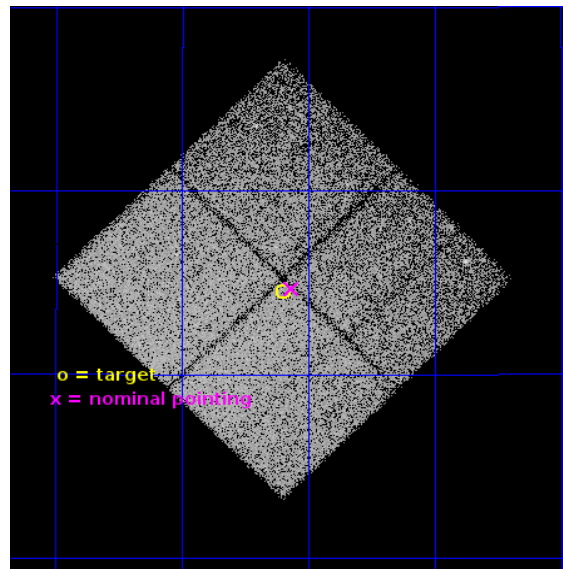
L2 Processing Date : Mar 10 2016

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1 Front

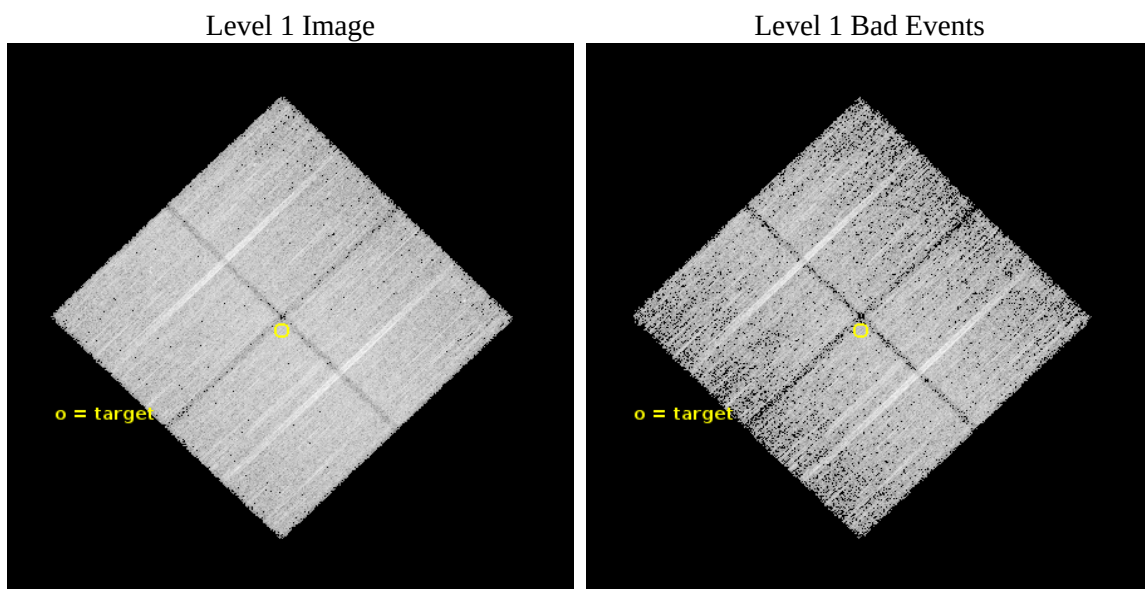
seq_num	801595	Sequence number
obs_id	18272	Observation id
title	Probing ICM on mean free path scales	Proposal title
observer	Dr Irina Zhuravleva	Principal investigator
object	Coma cluster	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	194.649583	Observer's specified target RA [deg]
dec_targ	28.074806	Observer's specified target Dec [deg]
ra_nom	194.64199978302	Nominal RA [deg]
dec_nom	28.077712776103	Nominal Dec [deg]
roll_nom	135.21227468167	Nominal Roll [deg]
revision	2	Processing version of data
ontime	20081.250990033	Sum of GTIs [s]
livetime	19818.874662246	Livetime [s]
ontime0	20081.127870083	Sum of GTIs [s]
ontime1	20078.02783978	Sum of GTIs [s]
ontime2	20078.068889856	Sum of GTIs [s]
ontime3	20081.250990033	Sum of GTIs [s]
l2events	103812	Number of level 2 events



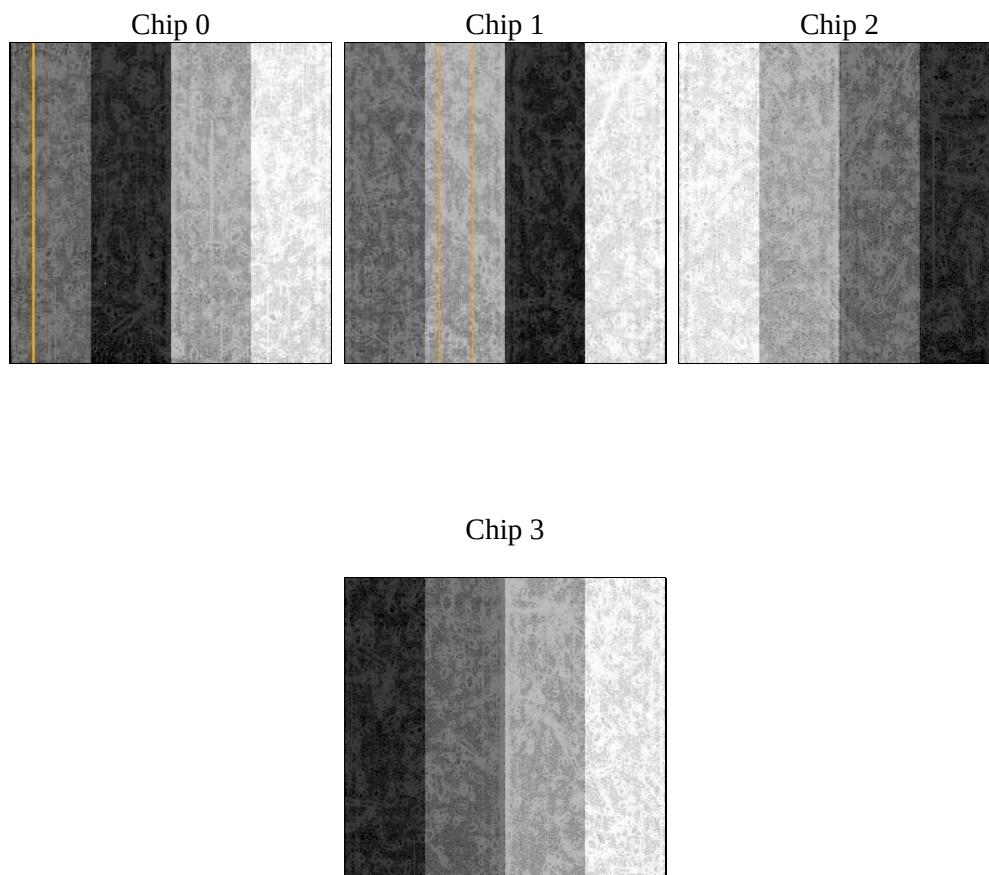
2 OBI

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	10.4.3.1	Processing system revision	ontime	20081.250990033	Sum of GTIs [s]
caldbver	4.7.0	 	ontime0	20081.127870083	Sum of GTIs [s]
date	2016-03-10T18:54:51	Date and time of file creation	ontime1	20078.02783978	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	20078.068889856	Sum of GTIs [s]
			ontime3	20081.250990033	Sum of GTIs [s]
			l1events	536487	Number of level 1 events

2.1.4 Events

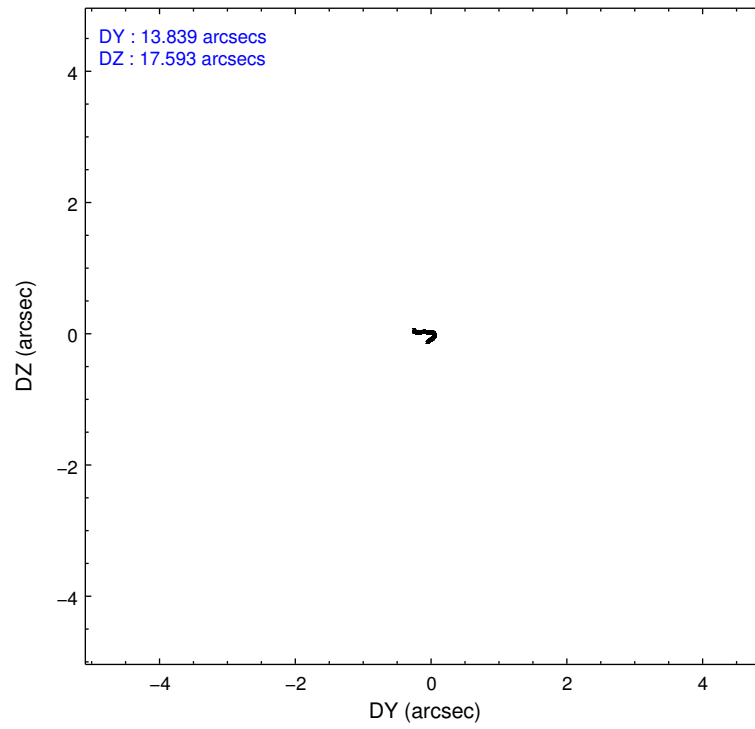
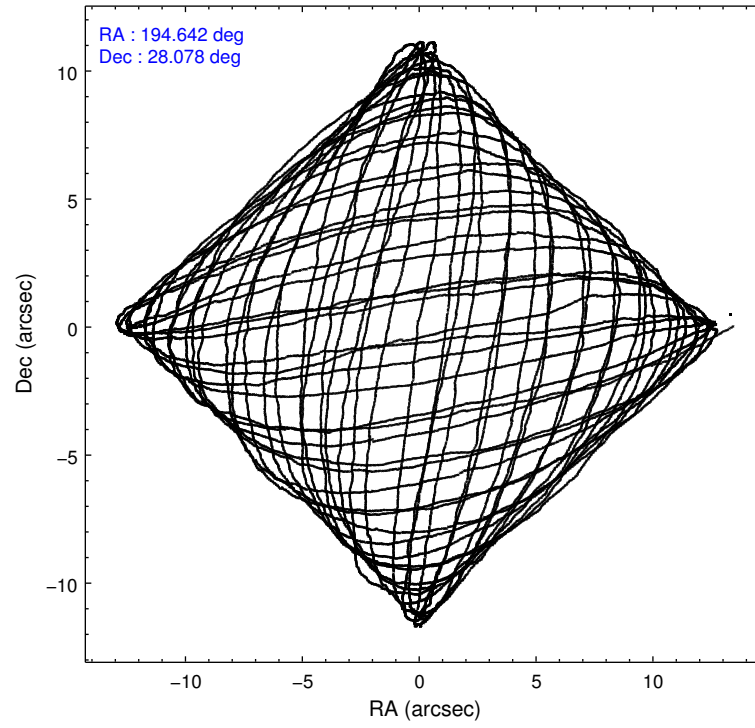
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	120489	139358	133972	142668
rejected events	99015	101463	111851	108518
rejected %	82%	72%	83%	76%

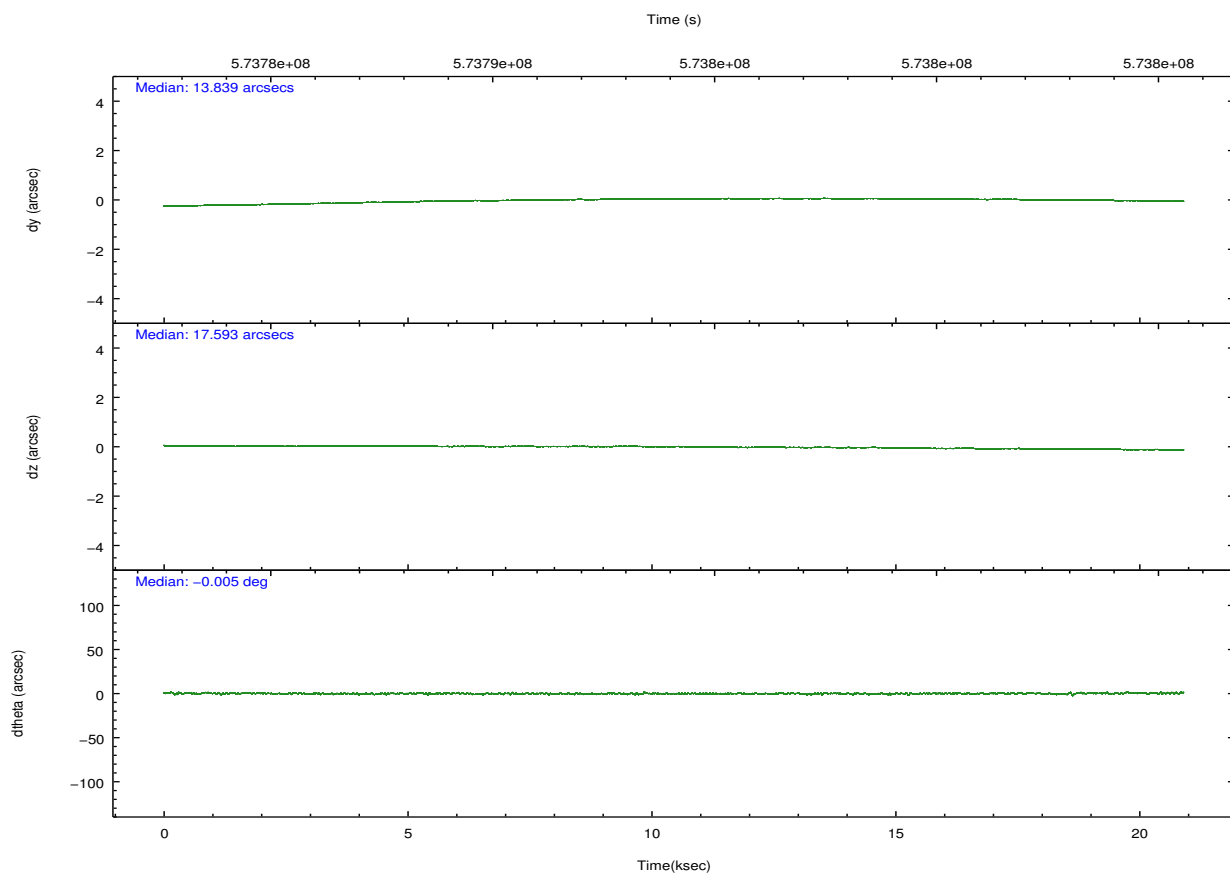
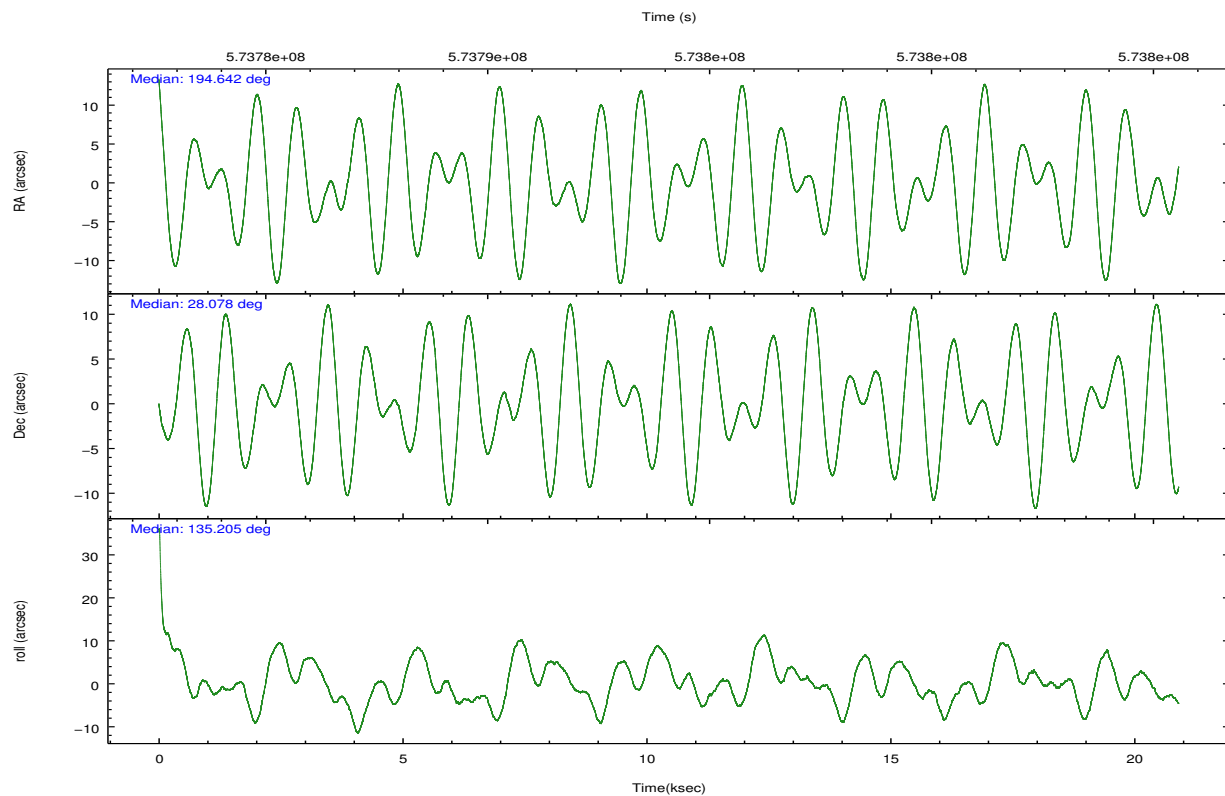
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	10924	22697	11816	21195
	9%	16%	8%	14%
grade 1 events	92	137	104	152
	0%	0%	0%	0%
grade 2 events	4213	6584	4075	5107
	3%	4%	3%	3%
grade 3 events	1612	2234	1608	2143
	1%	1%	1%	1%
grade 4 events	1585	2107	1668	2136
	1%	1%	1%	1%
grade 5 events	5183	5429	4752	5922
	4%	3%	3%	4%
grade 6 events	3146	4282	2965	3576
	2%	3%	2%	2%
grade 7 events	93734	95888	106984	102437
	77%	68%	79%	71%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	194.672297	194.6419997830203	Subarray requested	NONE	NONE
[deg] Pointing Dec	28.070769	28.07771277610285	Alternating exposures requested	N	N
[deg] Pointing Roll	134.989303	135.2122746816663	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	573784515.184000	573783274.3796			
Observation start date	2016-03-08T00:34:07	2016-03-08T00:14:34			
[s] Observation end time (MET)	573804515.184000	573805034.10584			
Observation end date	2016-03-08T06:07:27	2016-03-08T06:17:14			
Read mode	TIMED	TIMED			

2.3 Aspect



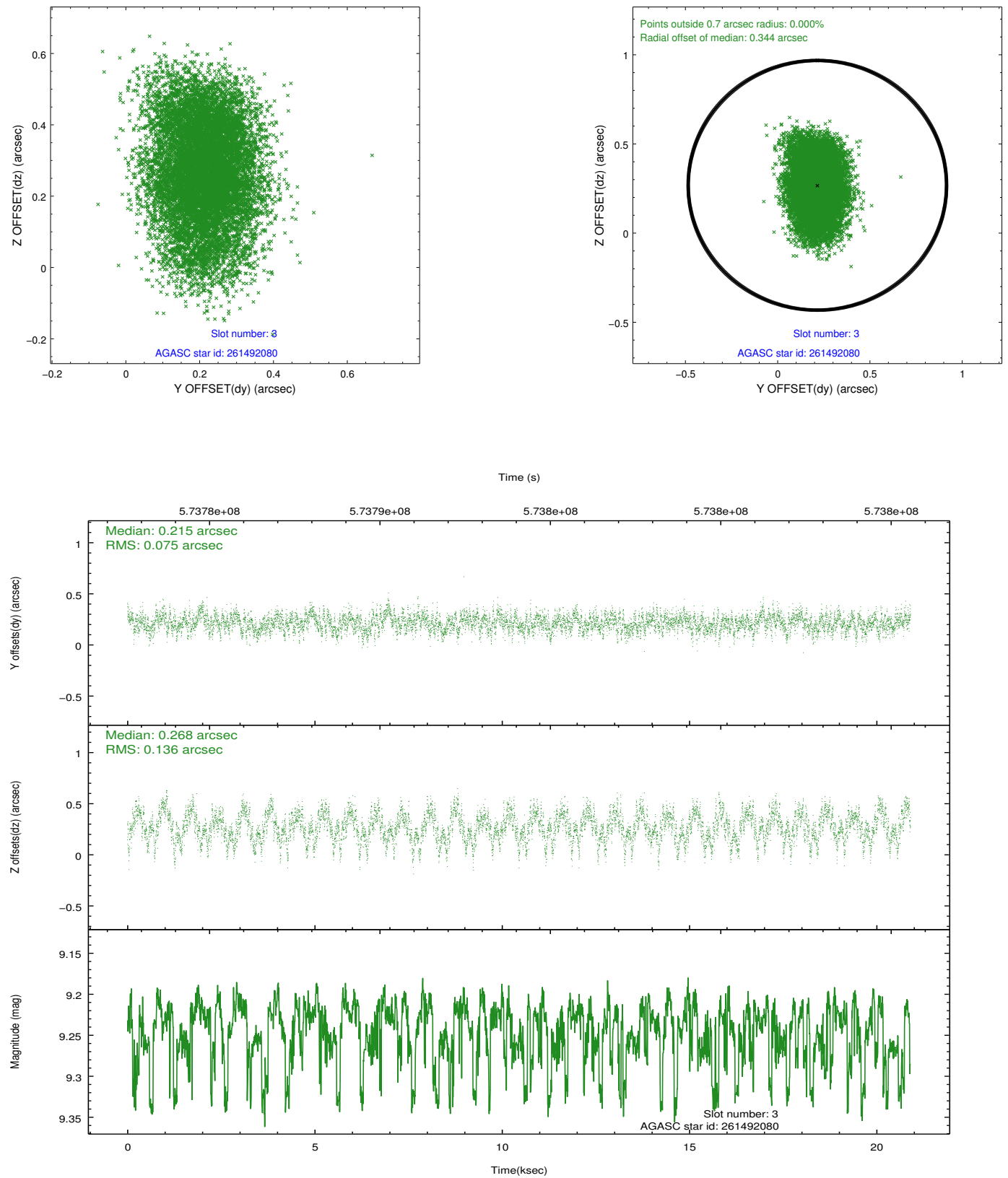


Slot Statistics

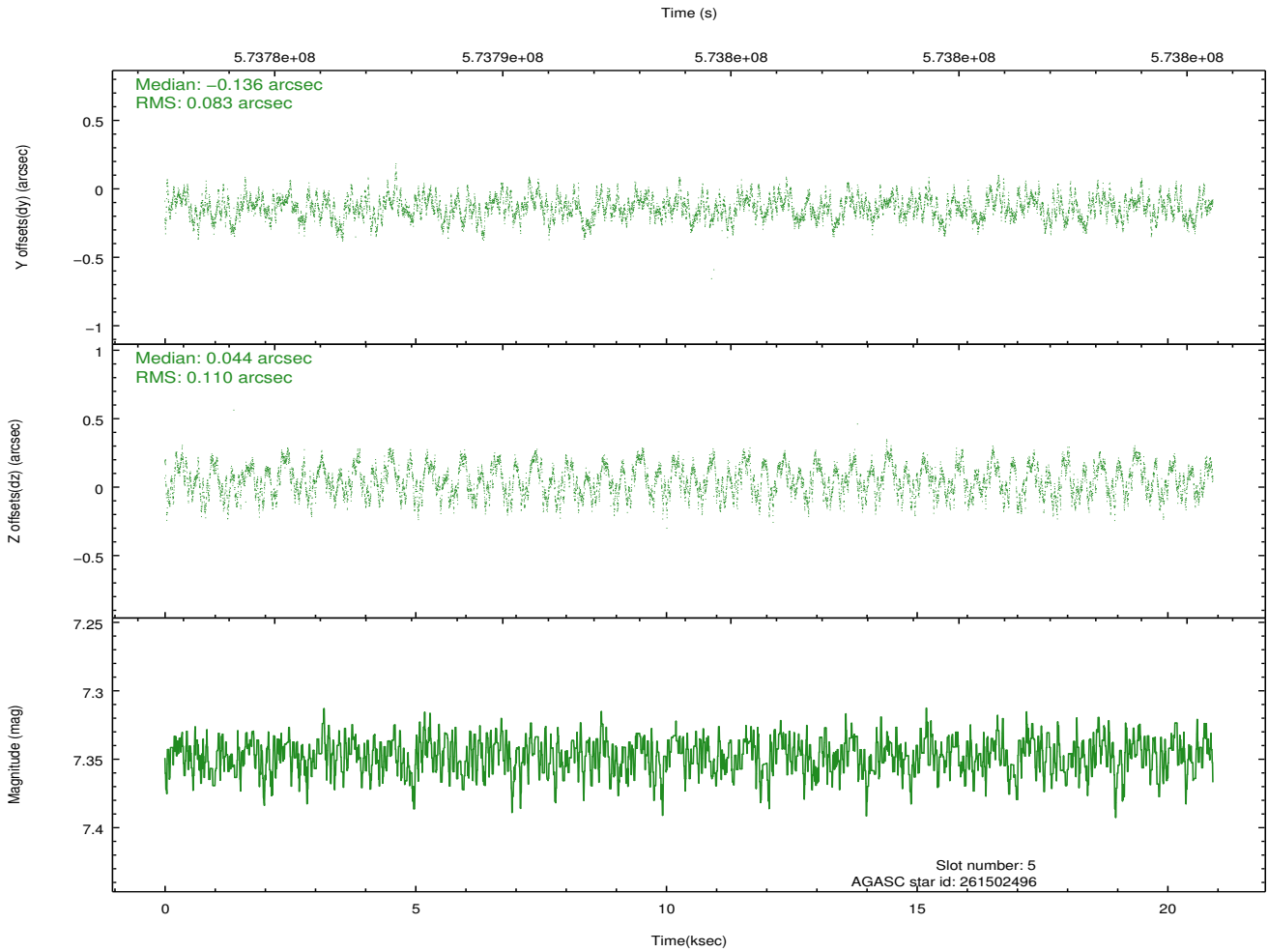
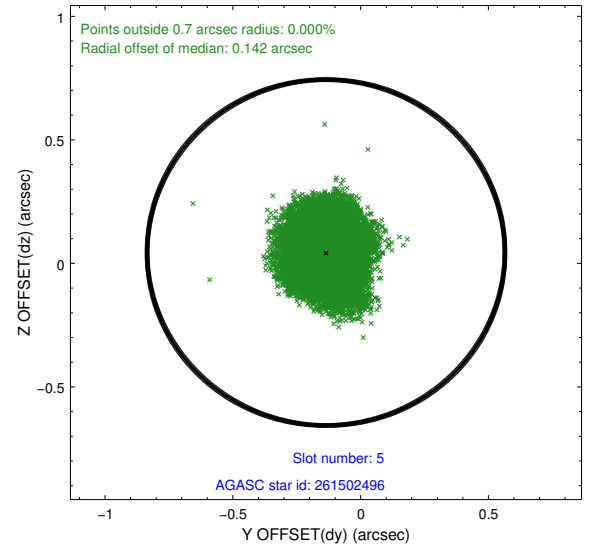
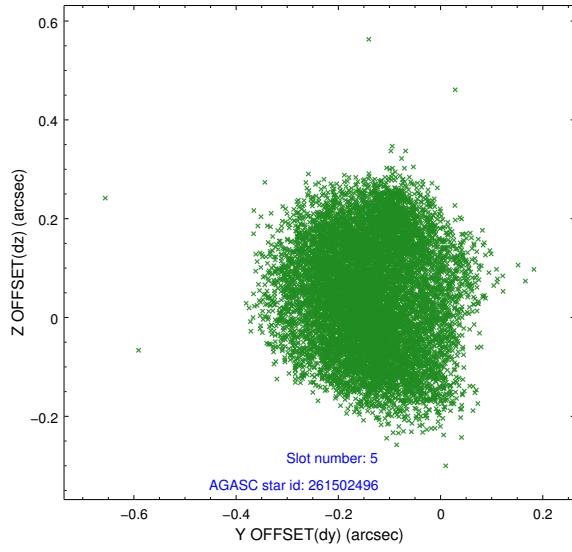
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.25	5099	-0.034	-0.110	0.009	0.015	0.000000	0.000000	925.69	-841.31
1	FID		ACIS-I-4	7.17	5099	0.371	0.116	0.009	0.014	0.000000	0.000000	2146.15	1058.69
2	FID		ACIS-I-5	7.26	5098	-0.435	0.064	0.007	0.012	0.000000	0.000000	-1822.58	1056.51
3	GUIDE	used	261492080	9.24	10188	0.215	0.268	0.166	0.273	194.976344	28.631585	750.26	-2107.24
4	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
5	GUIDE	used	261502496	7.35	10197	-0.136	0.044	0.154	0.218	194.887297	28.065668	-495.17	-470.63
6	GUIDE	used	261505232	9.75	10184	-0.144	0.055	0.259	0.396	194.216553	27.802521	343.24	1707.84
7	GUIDE	used	261505760	9.77	10181	0.070	-0.352	0.154	0.250	193.736841	27.992885	1912.47	2293.54

2.4 Star Slots

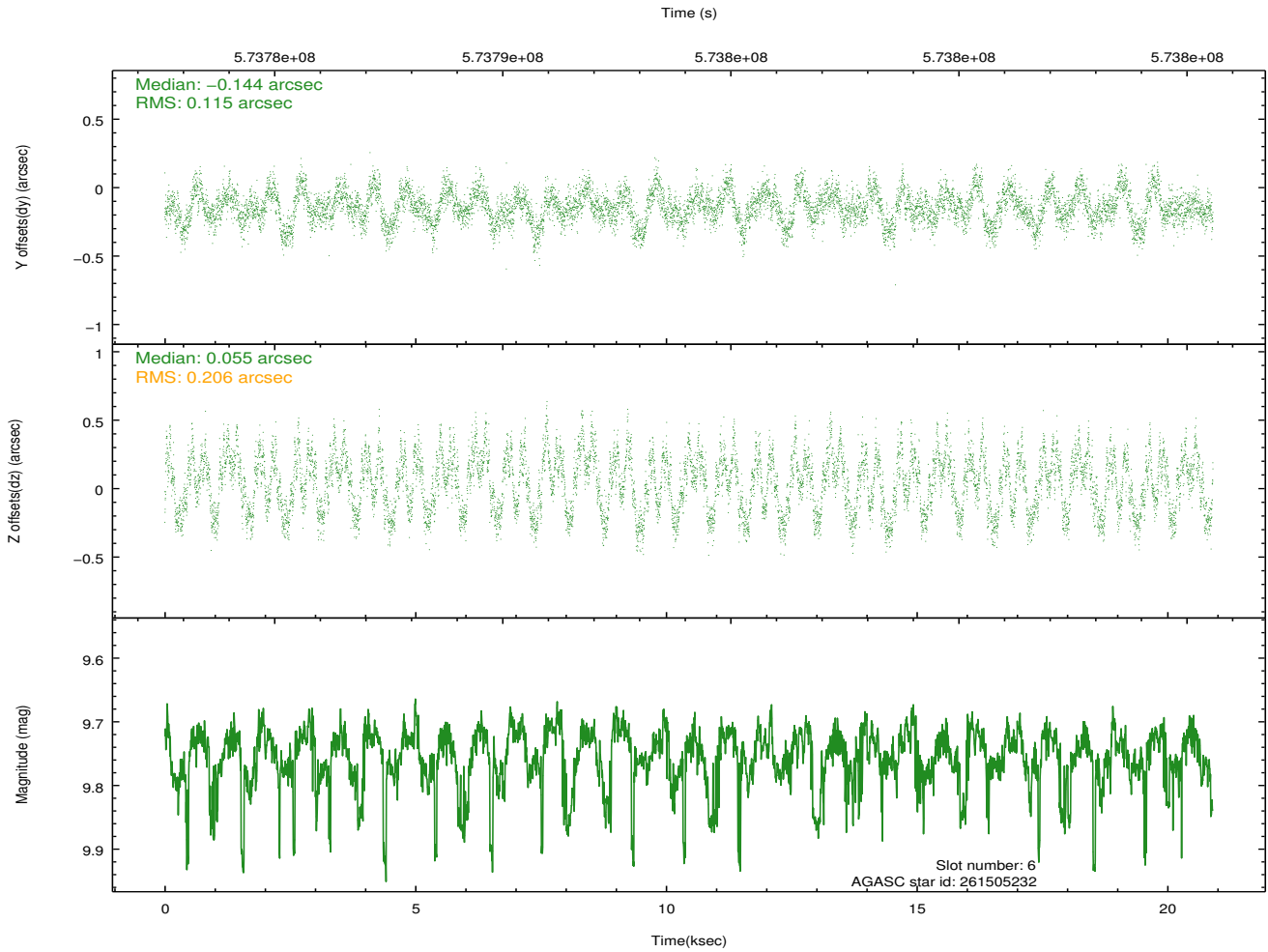
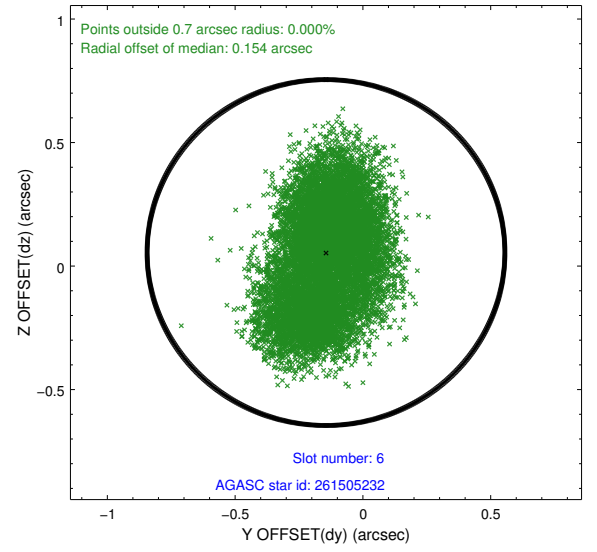
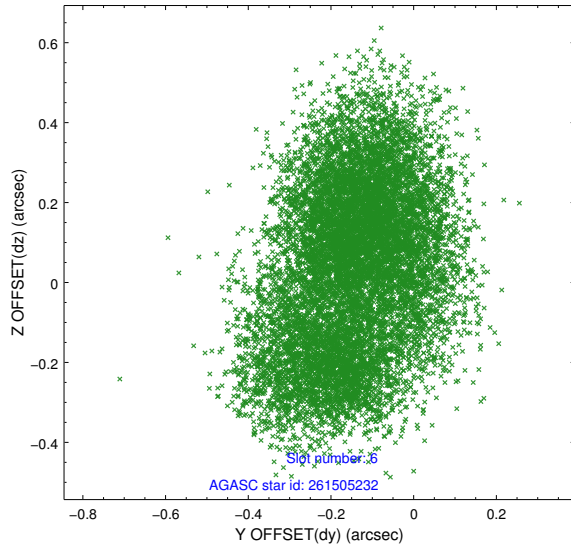
2.4.1 Slot 3



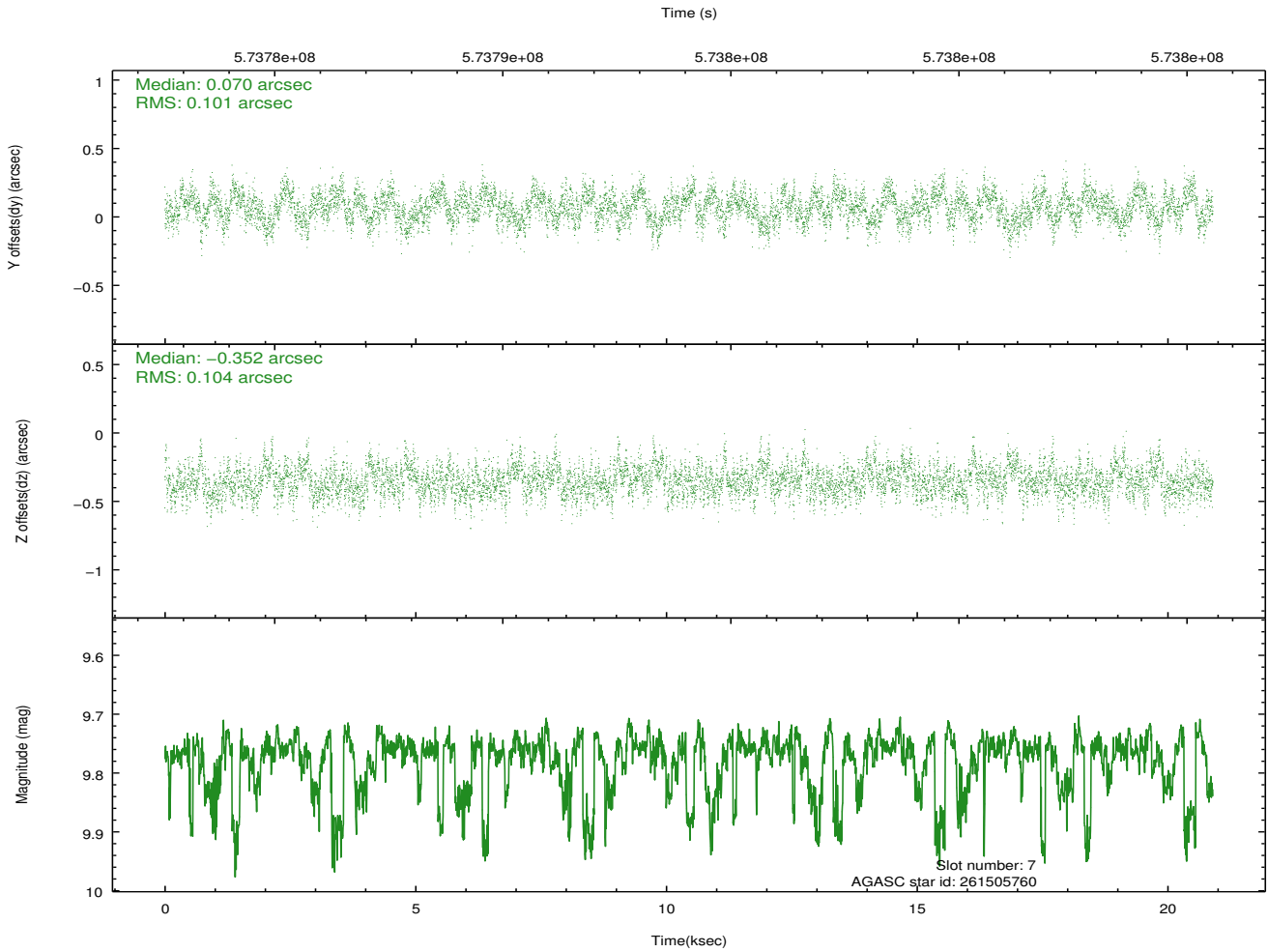
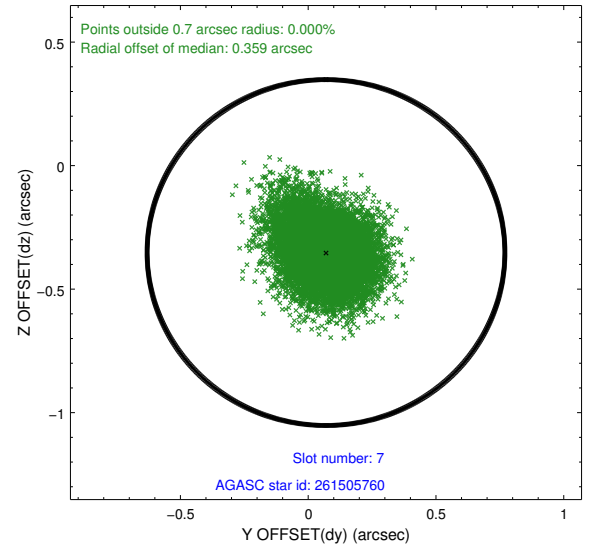
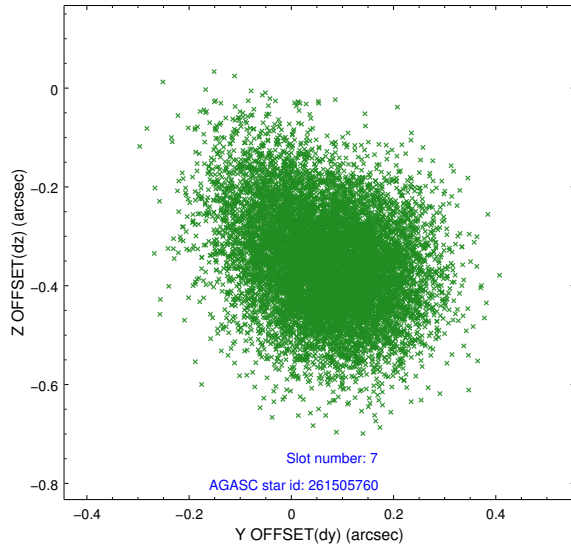
2.4.2 Slot 5



2.4.3 Slot 6

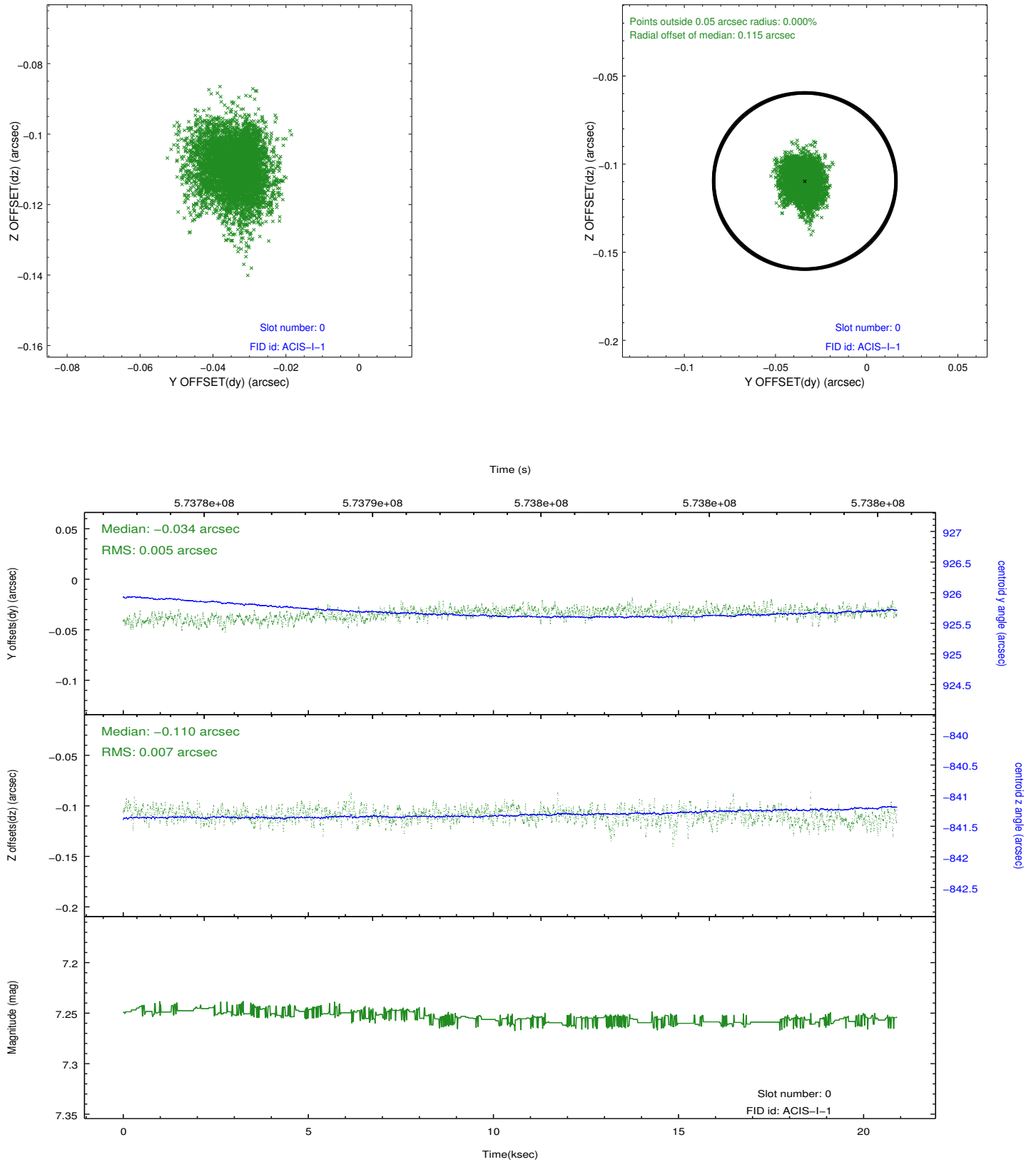


2.4.4 Slot 7

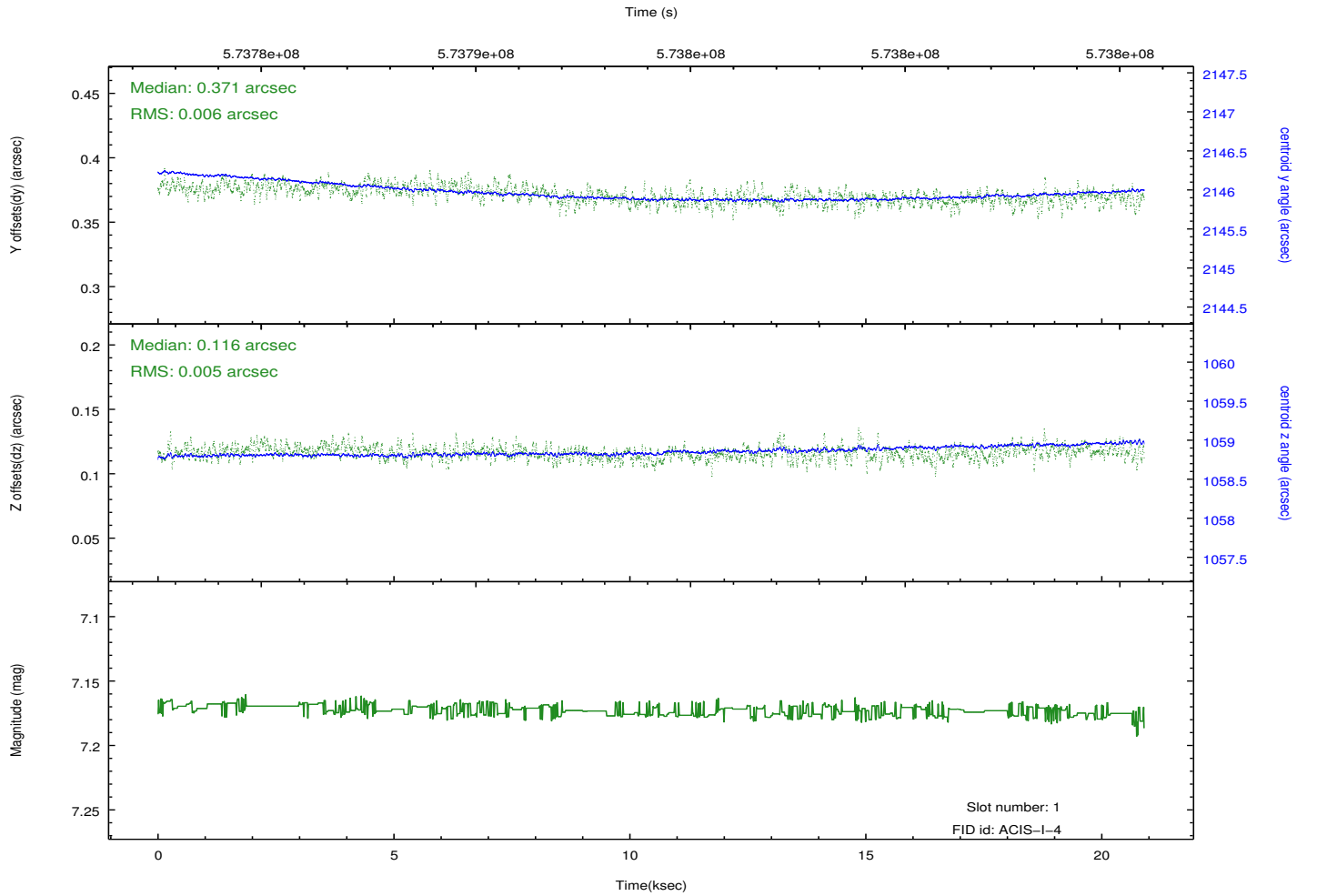
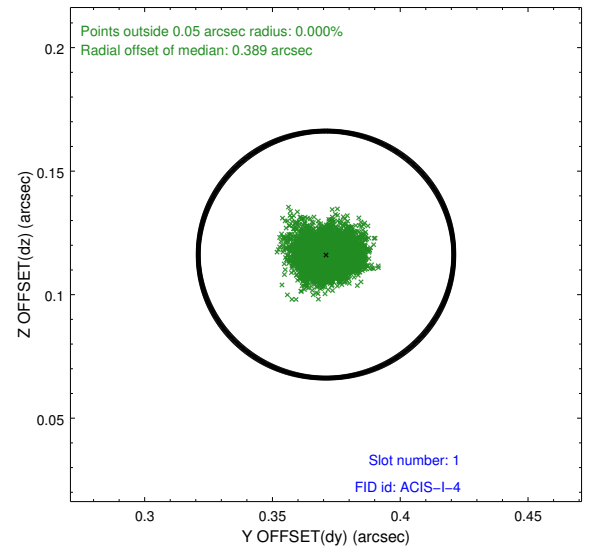
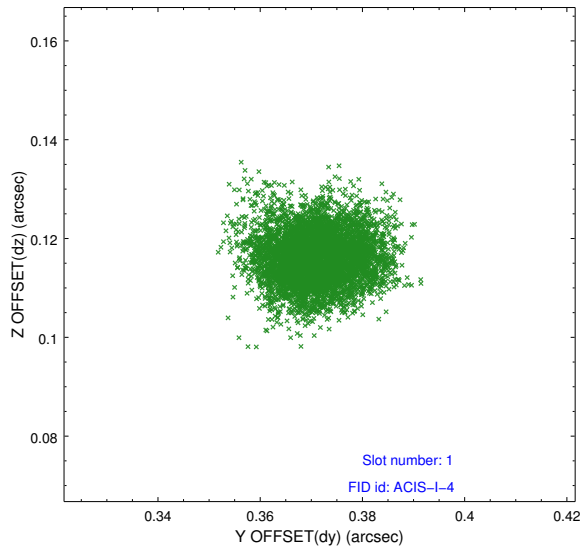


2.5 FID Slots

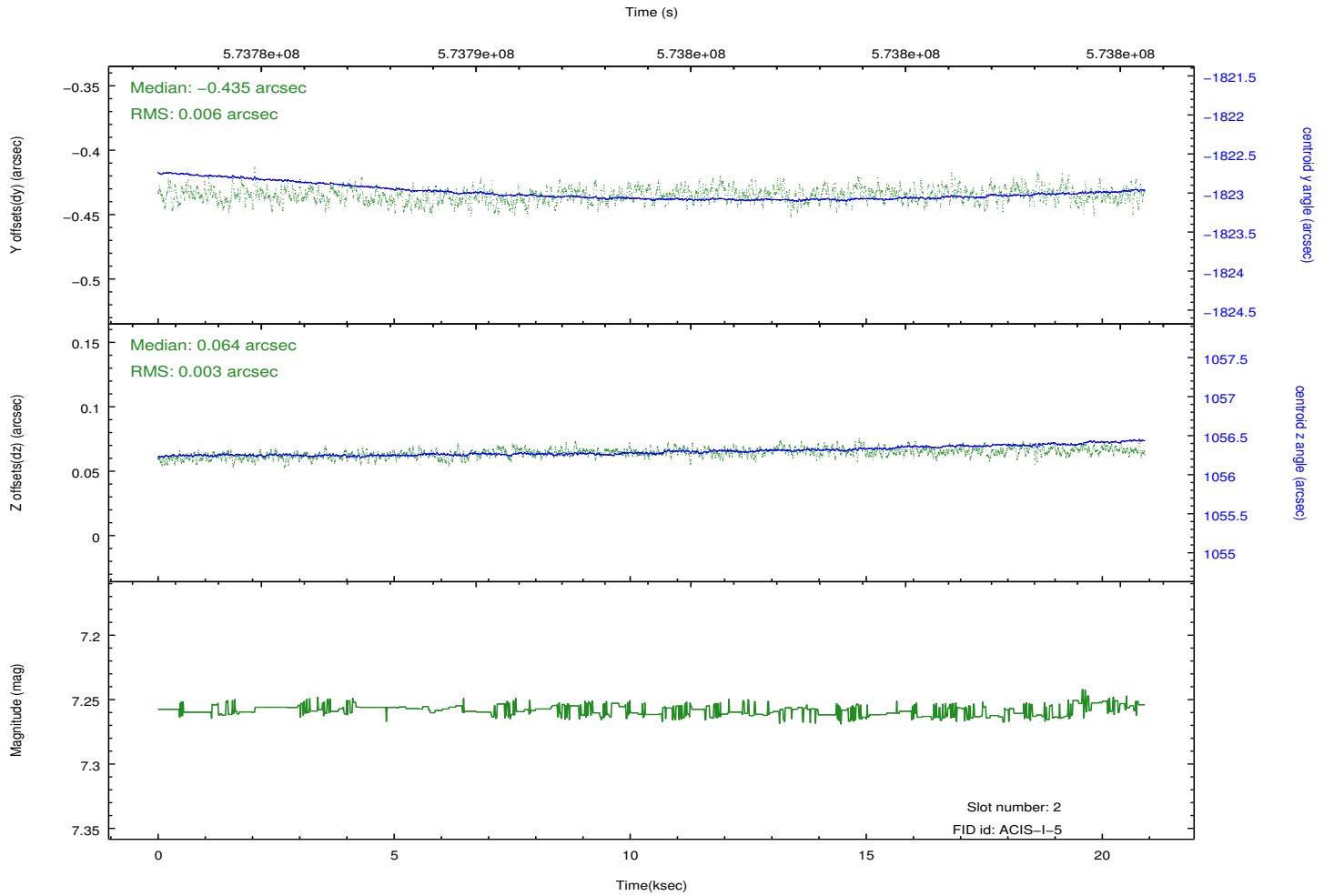
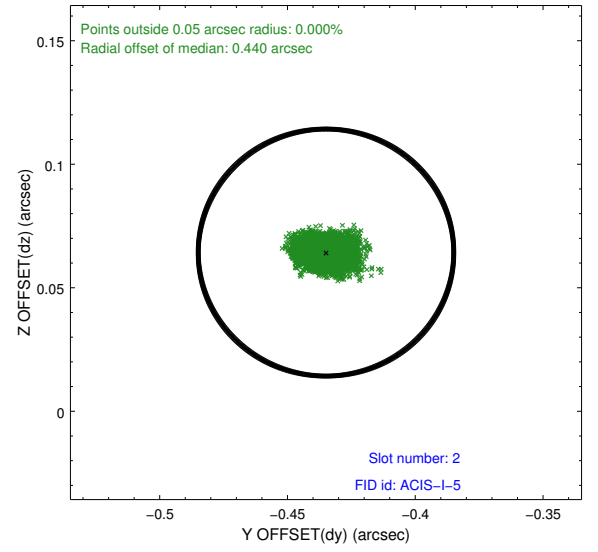
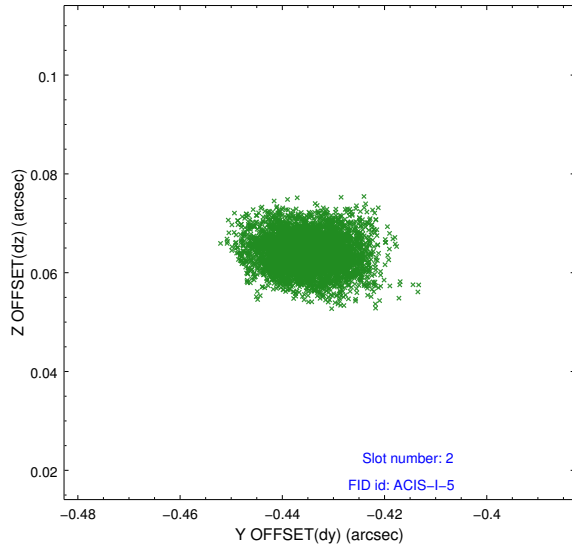
2.5.1 Slot 0



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)	2016.03.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.081250990033

A.2 Comments

The guide star in slot 4 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this star from the solution.