

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18595 - L2 Version 1
Chandra X-Ray Center

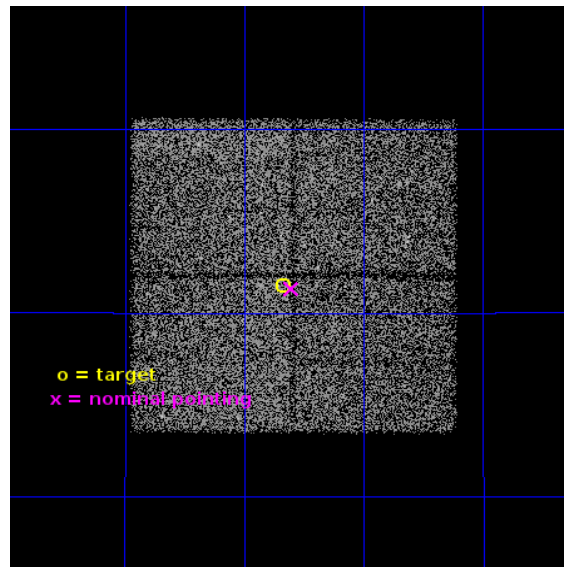
L2 Processing Date : May 4 2016

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

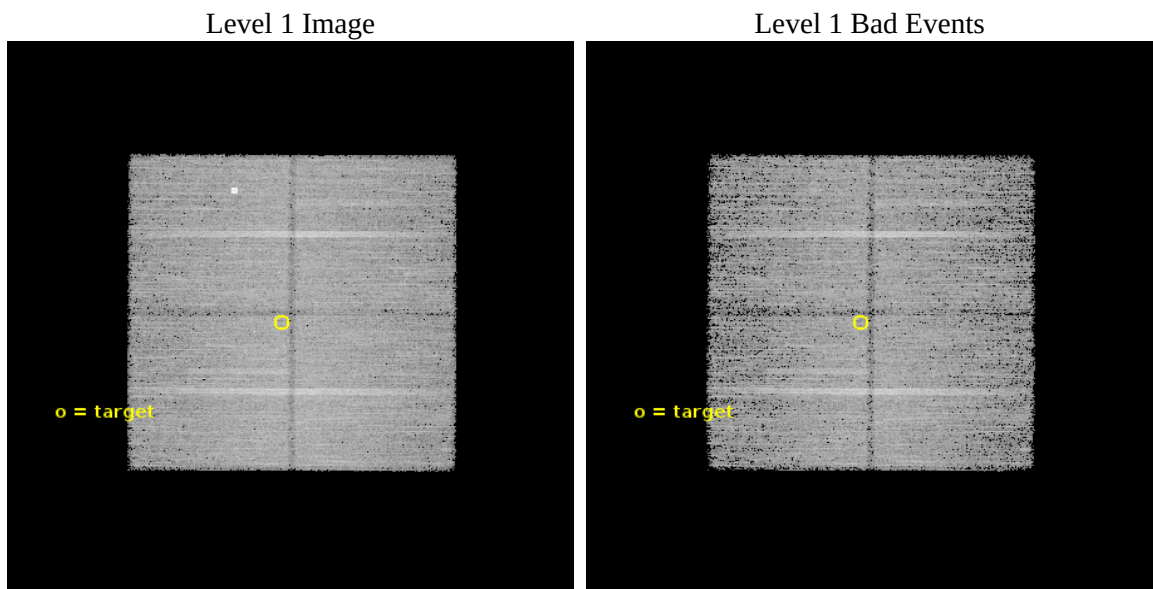
seq_num	901328	Sequence number
obs_id	18595	Observation id
title	An extended moderate-depth contiguous layer of the Chandra Bootes field -- further pointings	Proposal title
observer	Ralph Kraft	Principal investigator
object	Bootes Cy17-12	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	217.83362	Observer's specified target RA [deg]
dec_targ	33.691167	Observer's specified target Dec [deg]
ra_nom	217.82560387383	Nominal RA [deg]
dec_nom	33.688627387007	Nominal Dec [deg]
roll_nom	180.21313496054	Nominal Roll [deg]
revision	1	Processing version of data
ontime	23408.100180149	Sum of GTIs [s]
livetime	23102.256118503	Livetime [s]
ontime0	23404.95912993	Sum of GTIs [s]
ontime1	23404.95912981	Sum of GTIs [s]
ontime2	23408.100180149	Sum of GTIs [s]
ontime3	23408.100180149	Sum of GTIs [s]
l2events	52495	Number of level 2 events



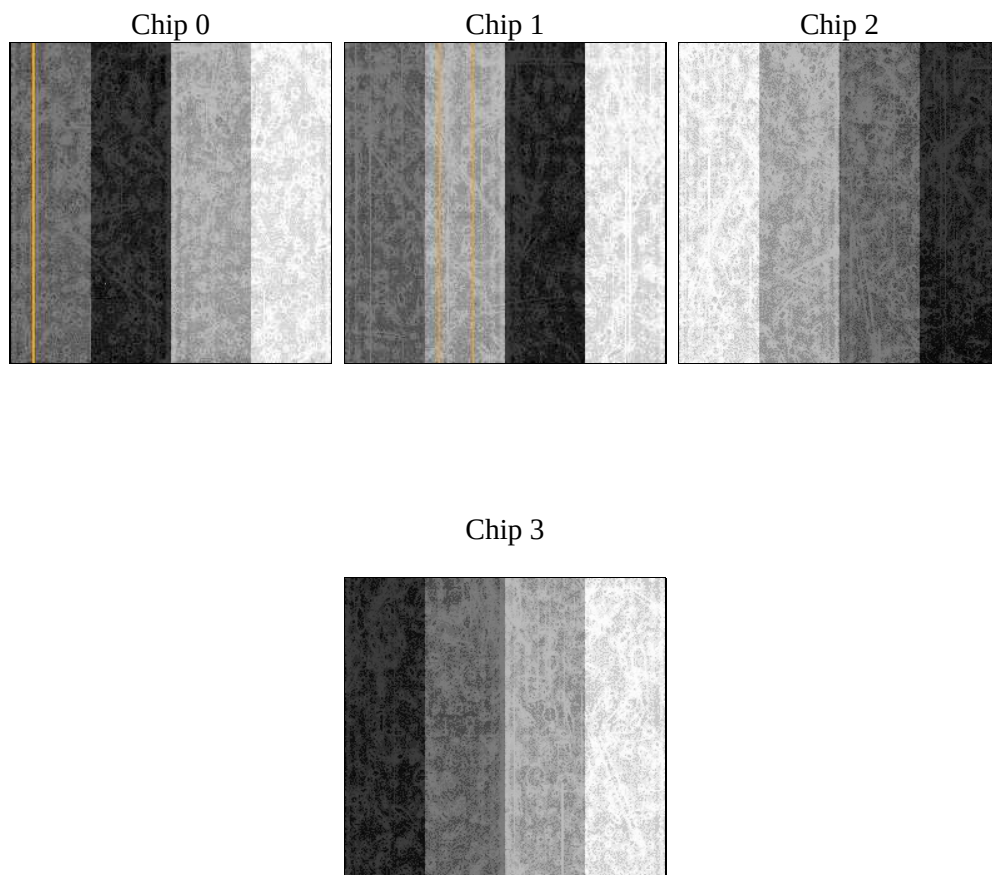
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	23617.967000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	23408.100180149	Sum of GTIs [s]
caldbver	4.7.1	 	ontime0	23404.95912993	Sum of GTIs [s]
date	2016-05-04T16:50:24	Date and time of file creation	ontime1	23404.95912981	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	23408.100180149	Sum of GTIs [s]
			ontime3	23408.100180149	Sum of GTIs [s]
			l1events	562784	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	133078	139435	145388	144883
rejected events	117577	119805	130765	129889
rejected %	88%	85%	89%	89%

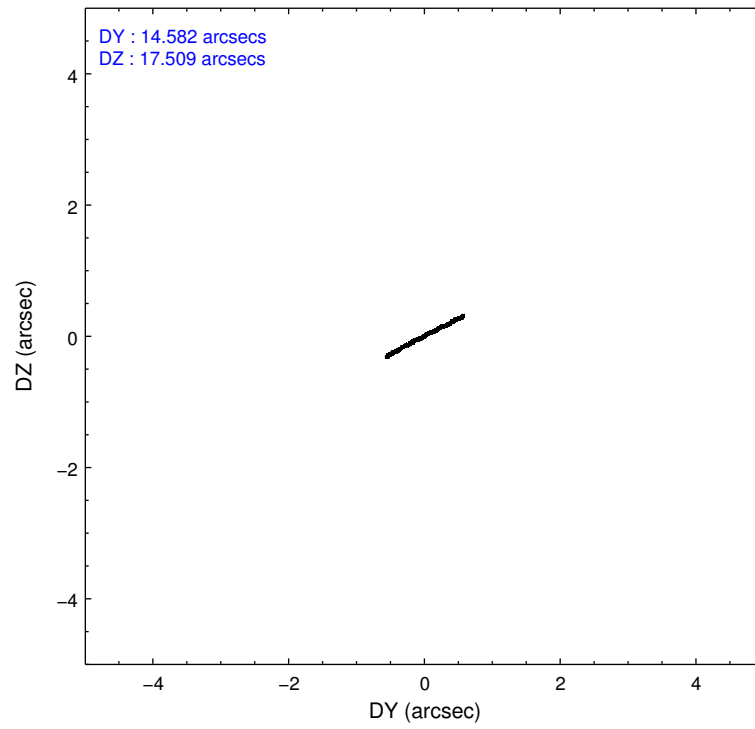
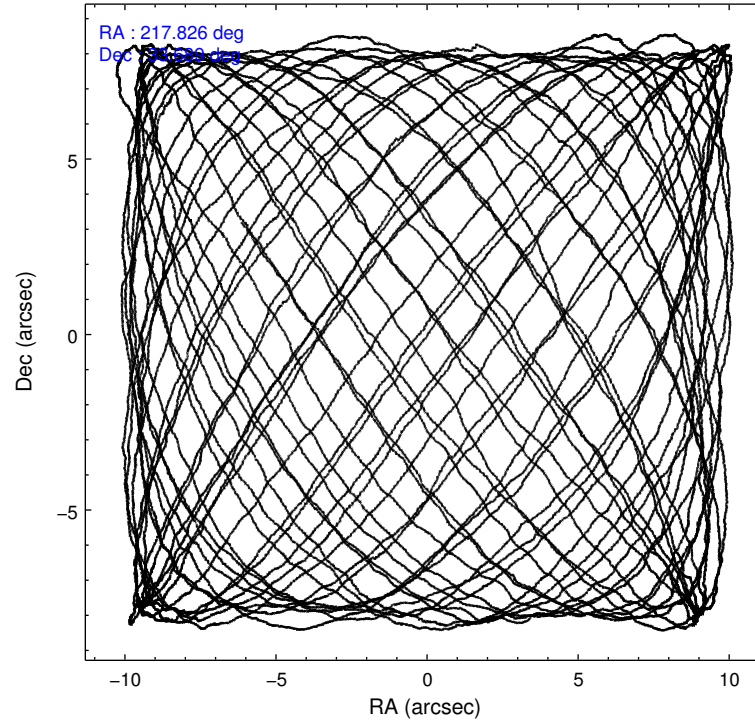
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	5376	8000	5087	5313
	4%	5%	3%	3%
grade 1 events	61	67	83	87
	0%	0%	0%	0%
grade 2 events	3816	4287	3447	3183
	2%	3%	2%	2%
grade 3 events	1556	1578	1567	1557
	1%	1%	1%	1%
grade 4 events	1435	1569	1575	1583
	1%	1%	1%	1%
grade 5 events	5870	6352	5717	6999
	4%	4%	3%	4%
grade 6 events	3321	4199	2949	3359
	2%	3%	2%	2%
grade 7 events	111643	113383	124963	122802
	83%	81%	85%	84%

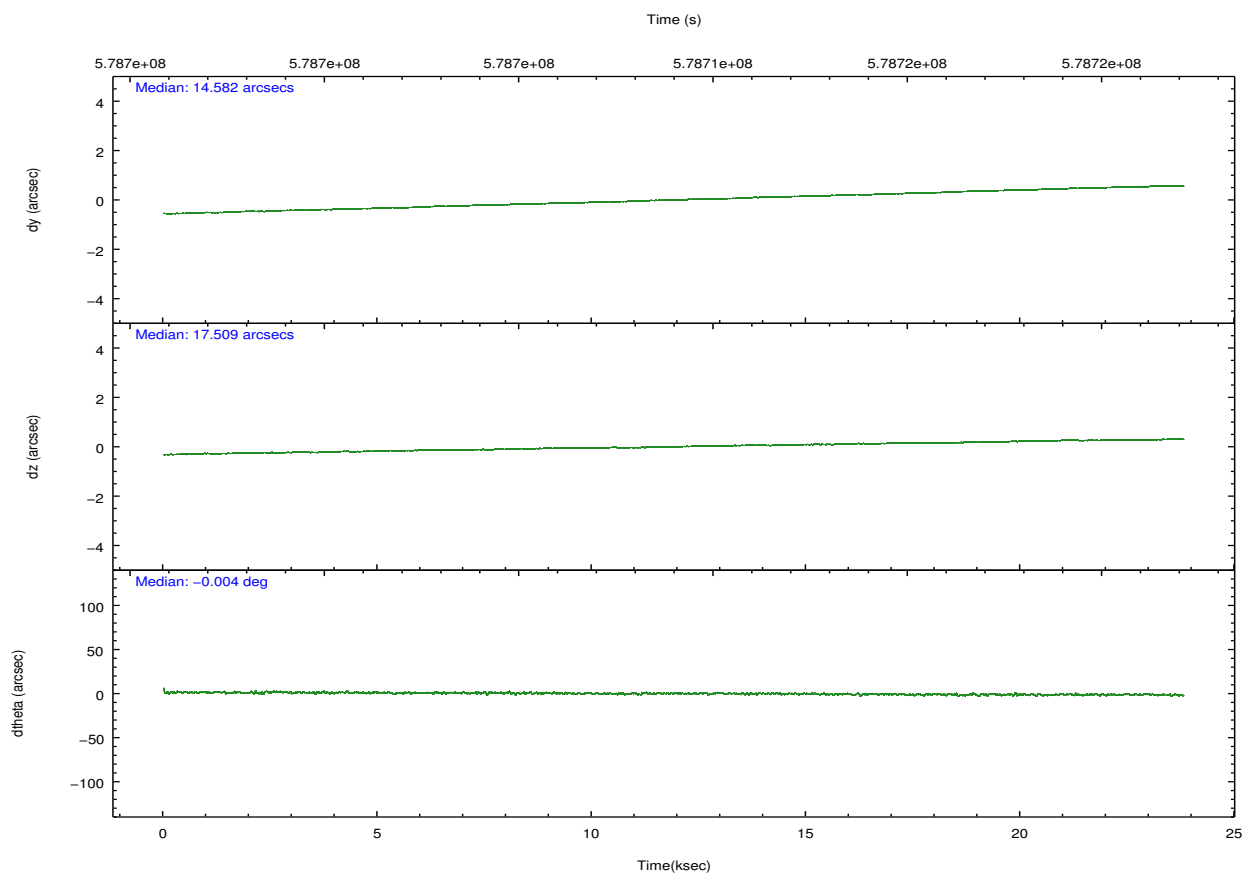
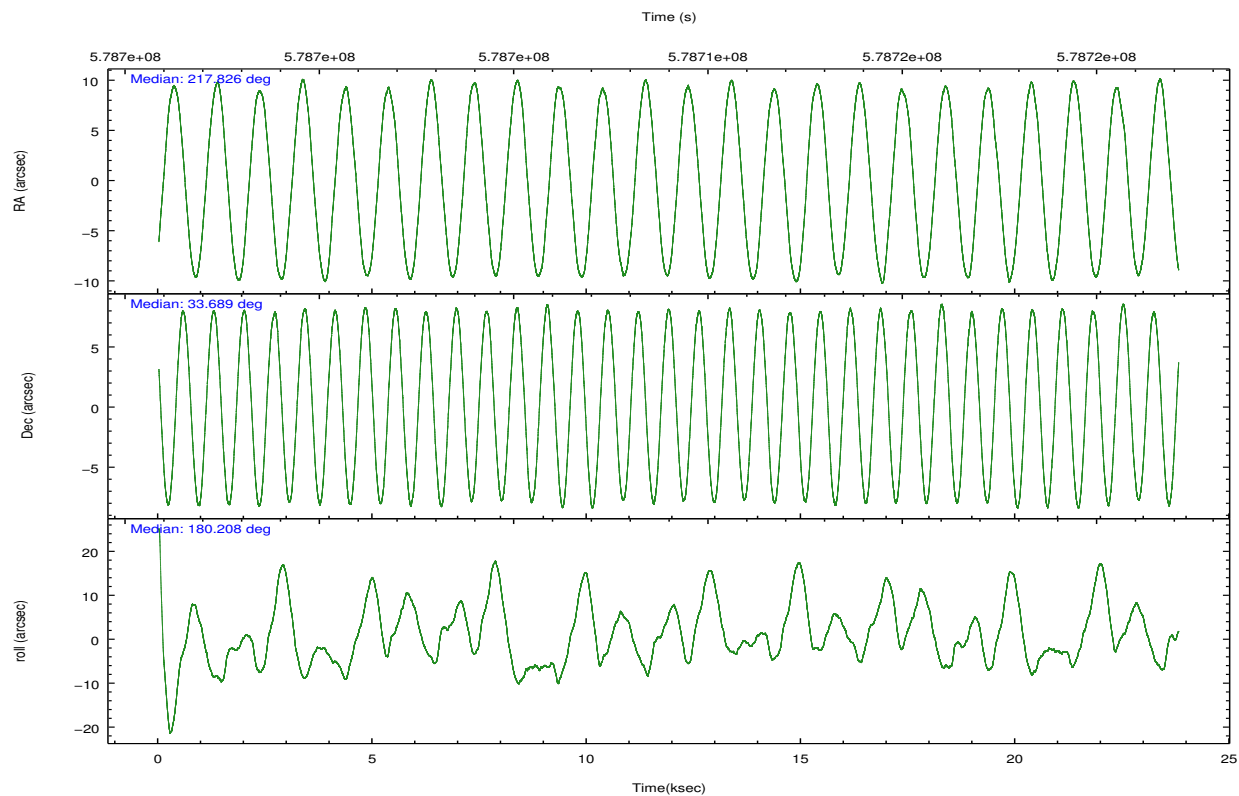
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-0123	ACIS-0123
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	217.854197	217.8256038738266
[deg] Pointing Dec	33.702620	33.68862738700692
[deg] Pointing Roll	179.988584	180.2131349605415
[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)	578697298.184000	578696922.2227401
Observation start date	2016-05-03T21:13:50	2016-05-03T21:08:42
[s] Observation end time (MET)	578720916.184000	578721153.22413
Observation end date	2016-05-04T03:47:28	2016-05-04T03:52:33
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	O2	N
CCD S3 on	O1	N
CCD S4 on	N	N
CCD S5 on	N	N
Number of optional ACIS chips dropped	2	2
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



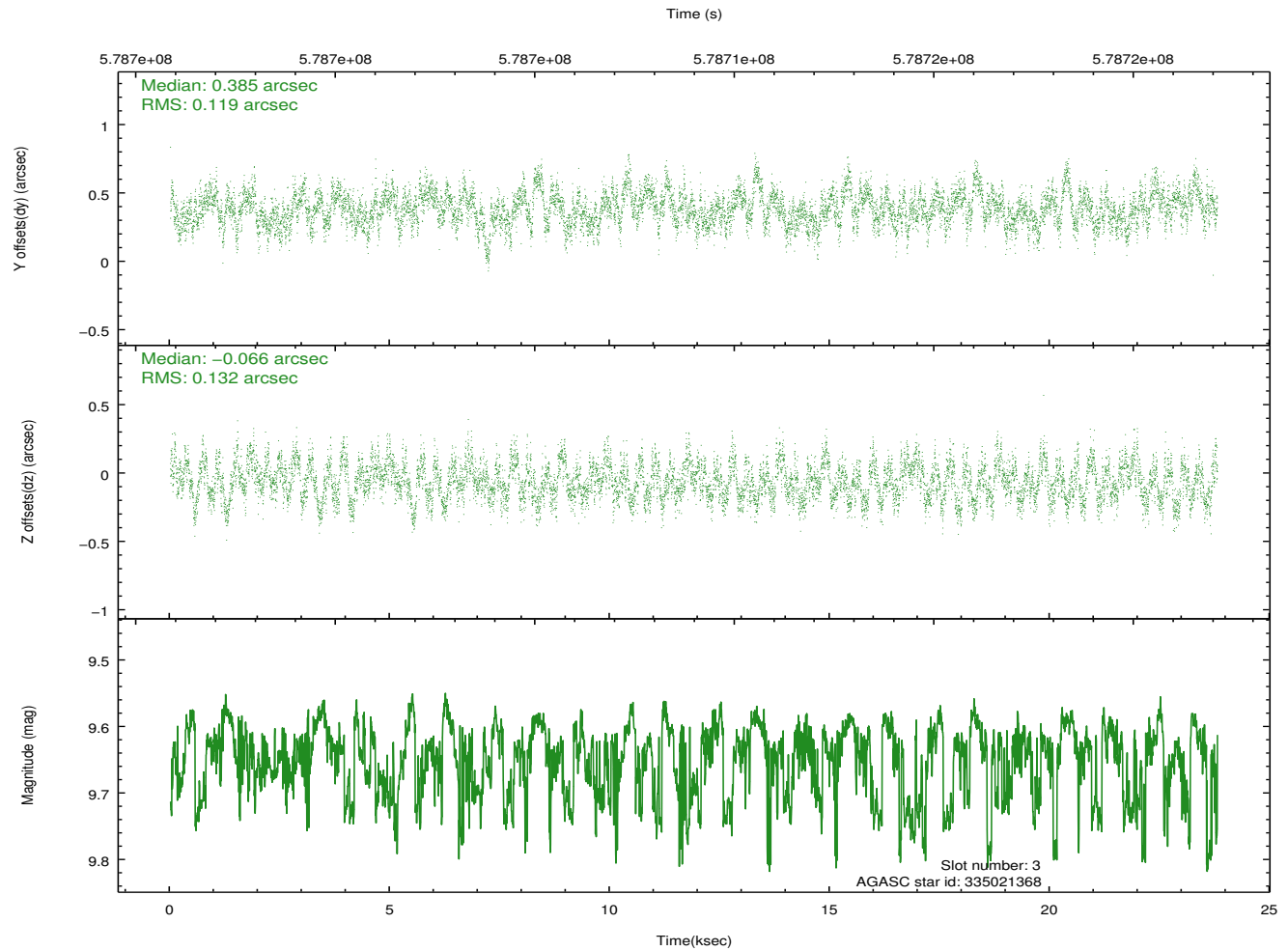
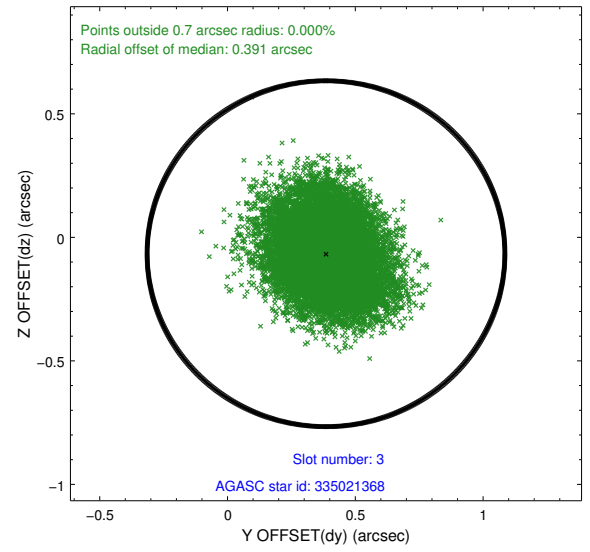
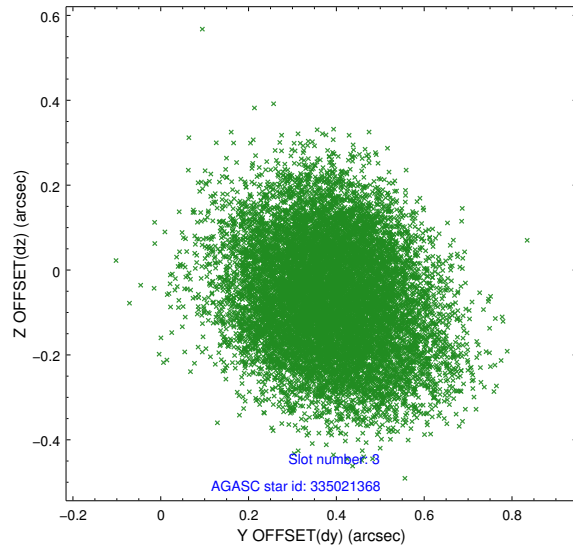


Slot Statistics

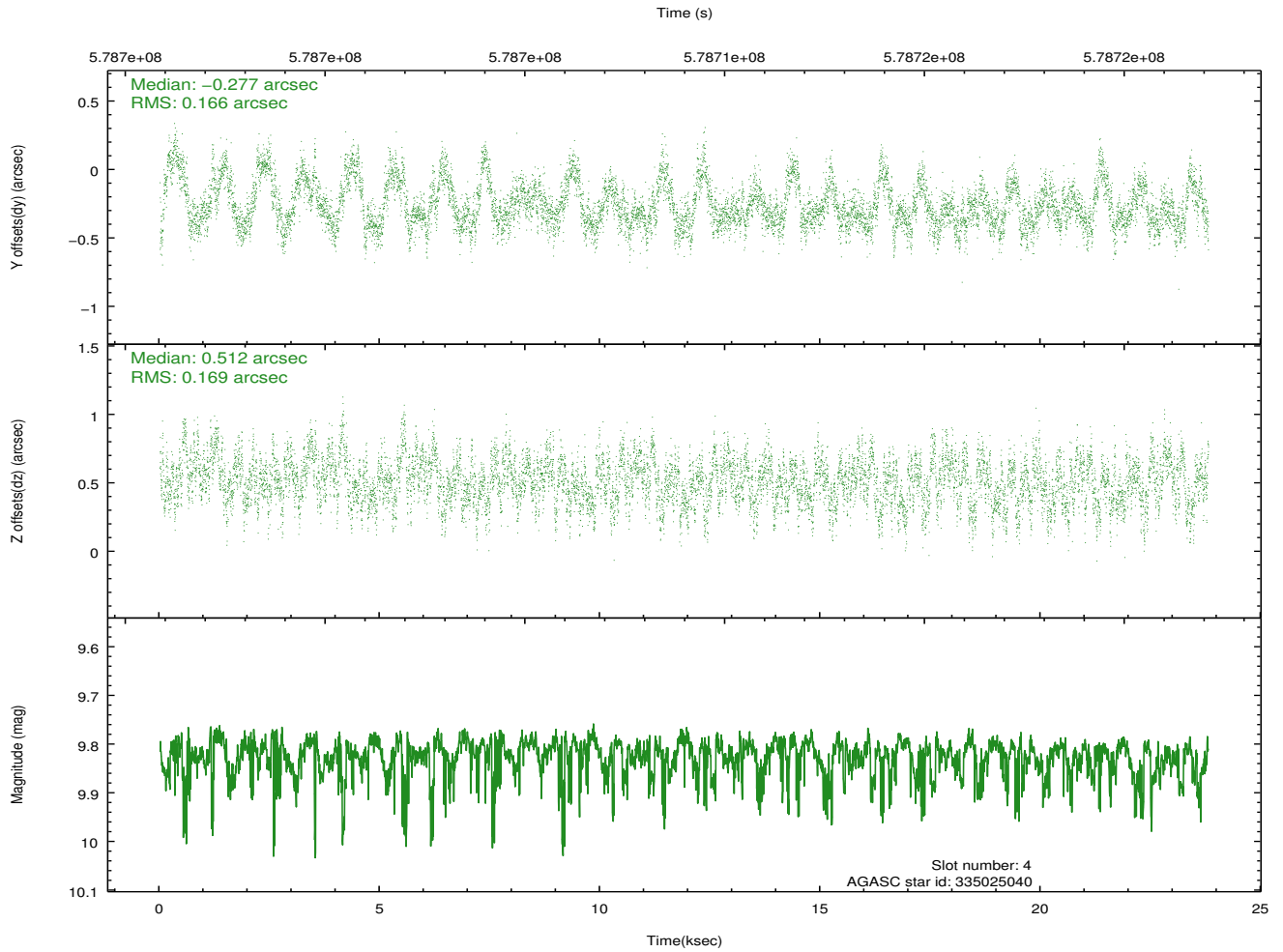
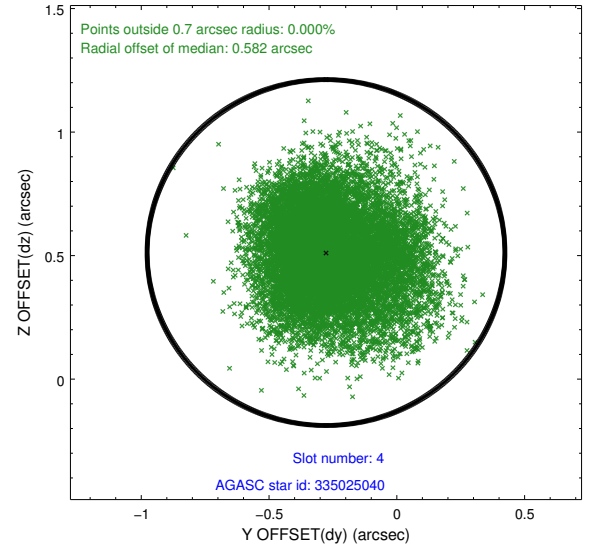
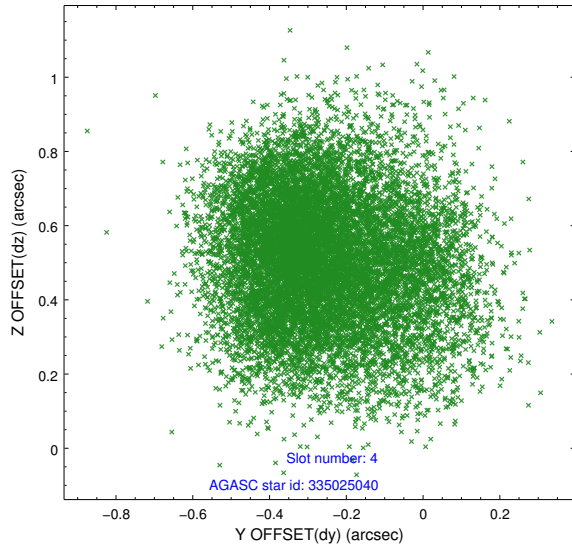
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-2	7.15	5804	-0.237	-0.104	0.016	0.029	0.000000	0.000000	-769.50	-847.67
1	FID		ACIS-I-4	7.18	5805	0.442	0.153	0.010	0.017	0.000000	0.000000	2145.13	1058.77
2	FID		ACIS-I-5	7.26	5805	-0.308	0.020	0.012	0.019	0.000000	0.000000	-1823.28	1056.54
3	GUIDE	used	335021368	9.64	11595	0.385	-0.066	0.192	0.299	217.529643	33.934817	970.83	-837.13
4	GUIDE	used	335025040	9.82	11592	-0.277	0.512	0.254	0.406	218.601670	34.305240	-2221.65	-2177.71
5	GUIDE	used	335025848	9.68	11594	-0.190	-0.210	0.200	0.296	217.530531	33.778292	969.01	-273.96
6	GUIDE	used	335027640	9.07	11536	-0.678	-0.195	0.153	0.253	218.092211	33.193770	-717.37	1830.74
7	GUIDE	used	335028696	9.17	11598	0.763	-0.034	0.187	0.328	217.260519	33.844112	1776.72	-513.77

2.4 Star Slots

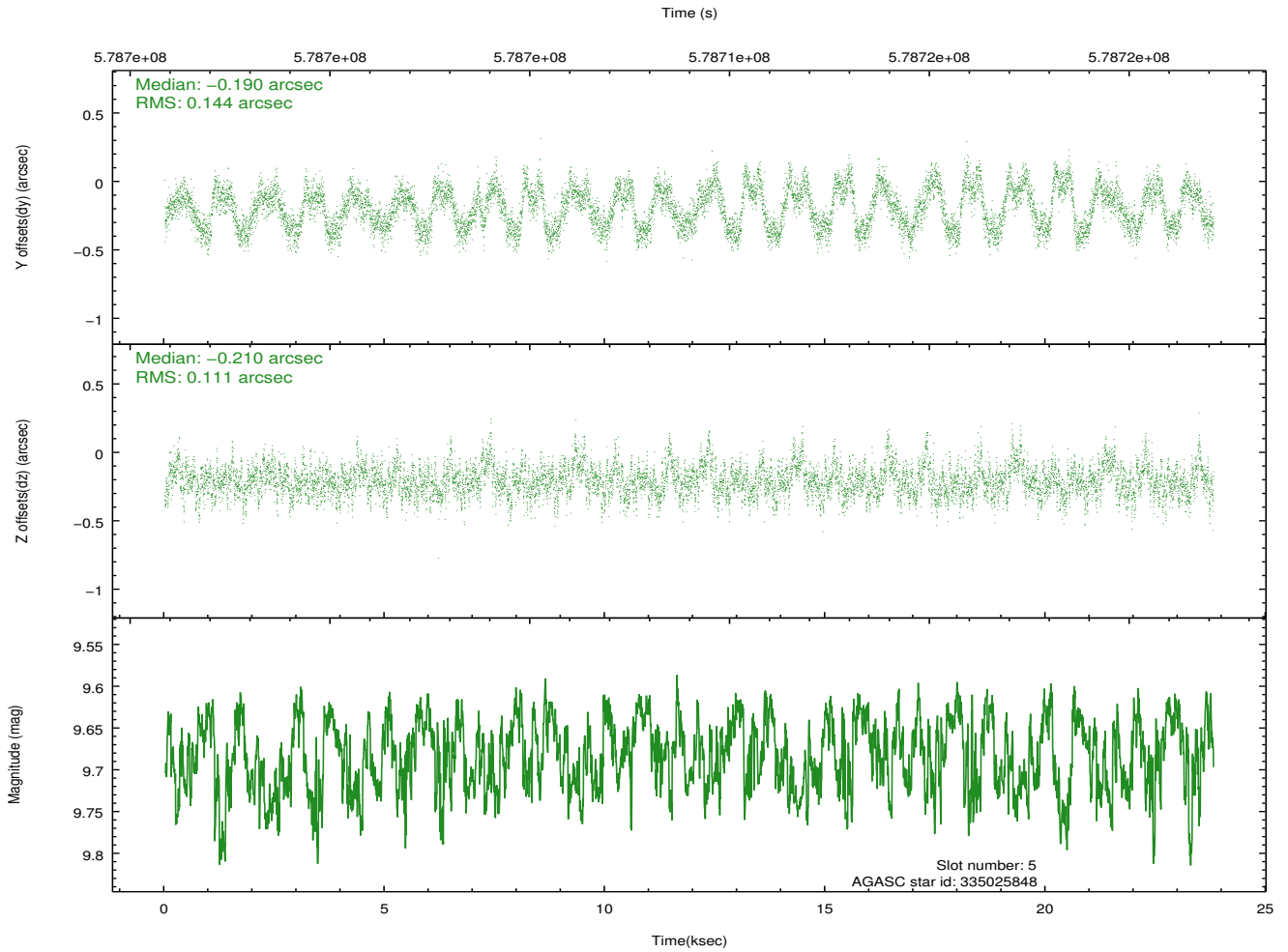
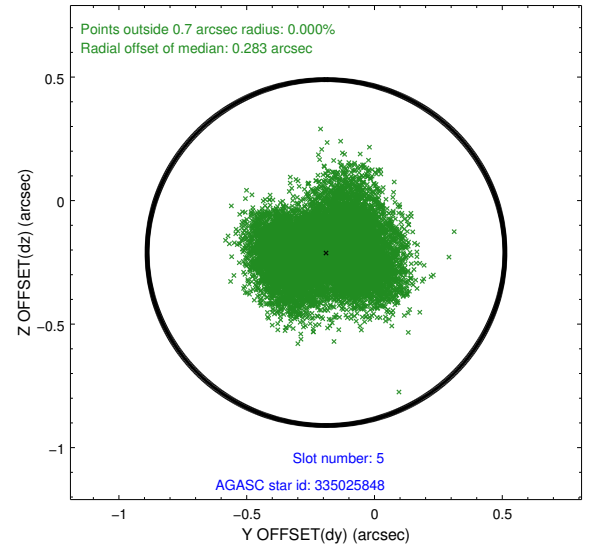
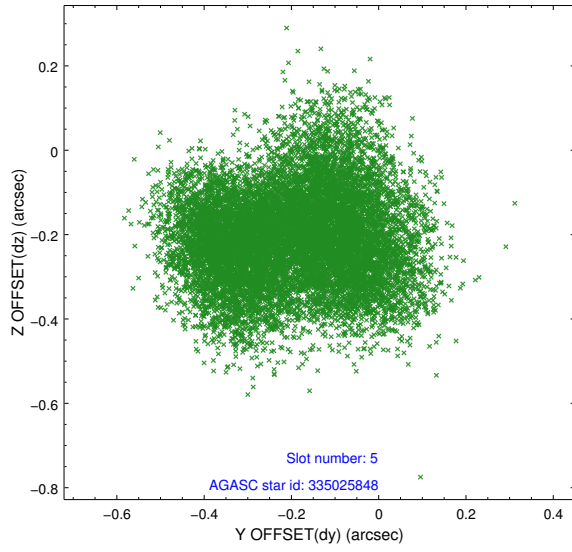
2.4.1 Slot 3



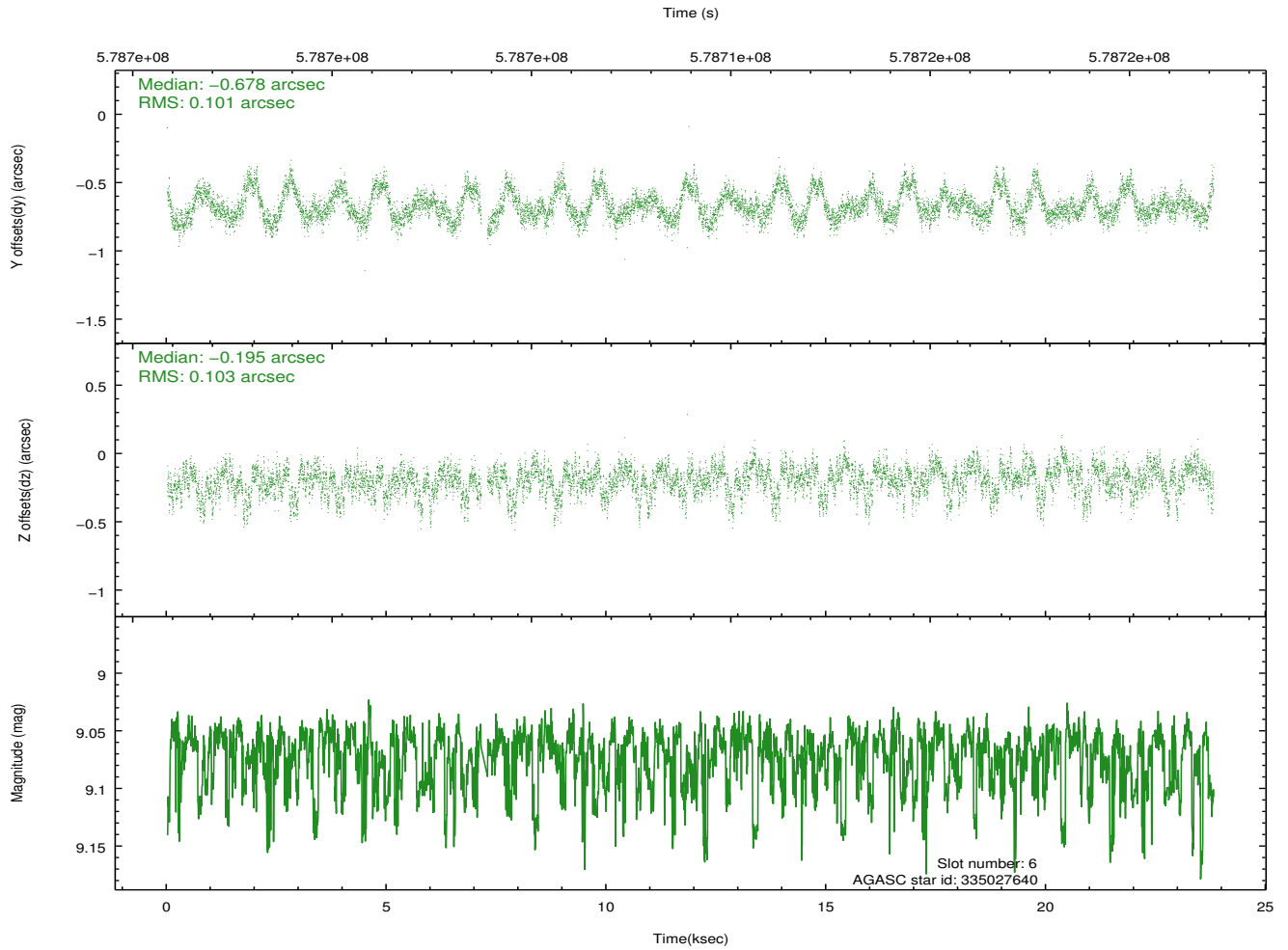
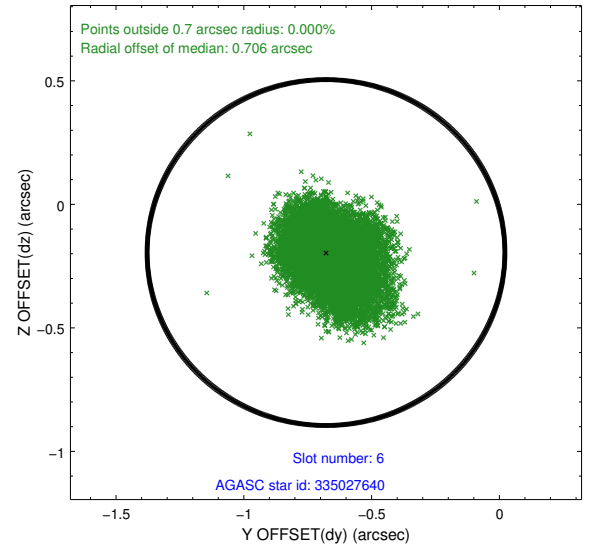
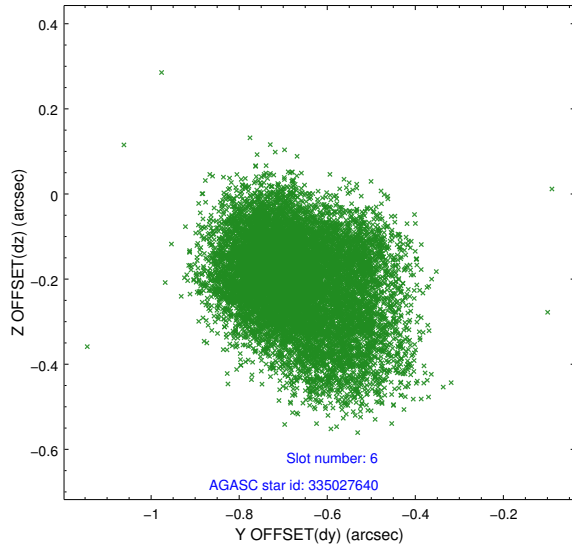
2.4.2 Slot 4



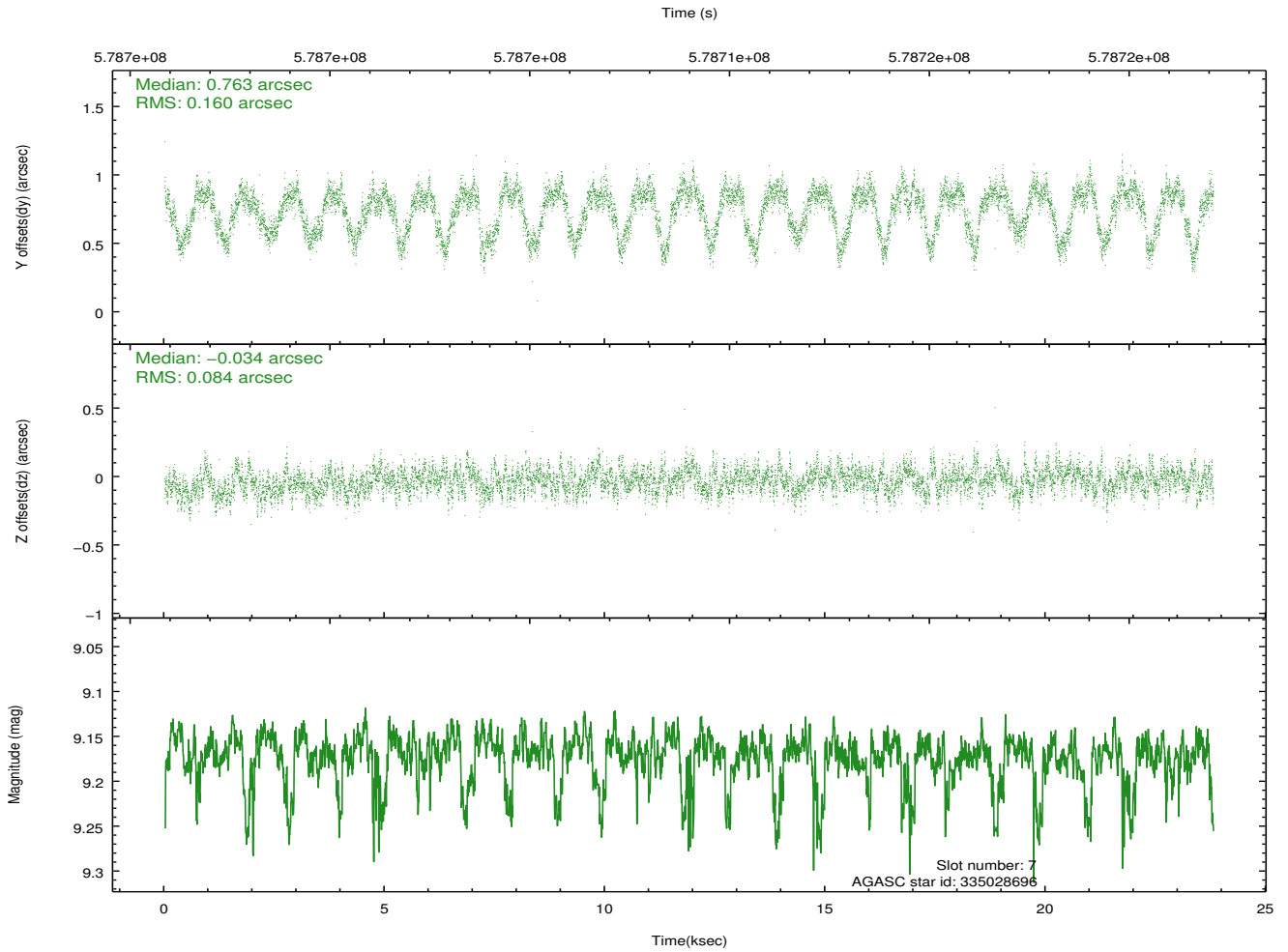
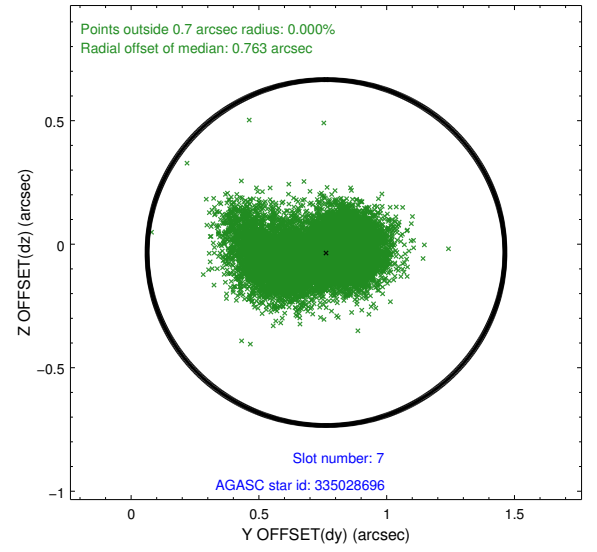
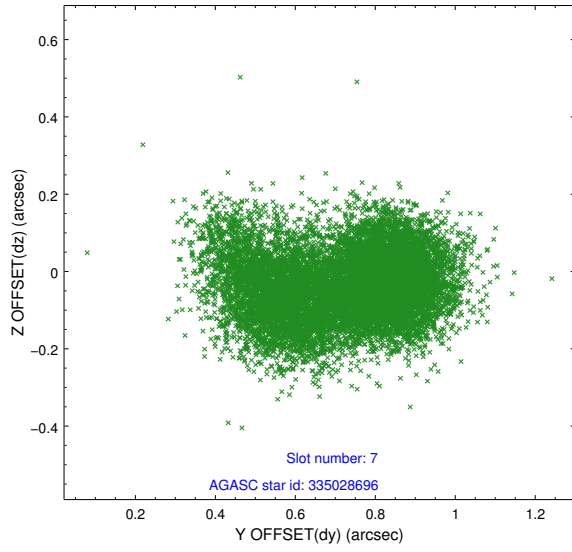
2.4.3 Slot 5



2.4.4 Slot 6

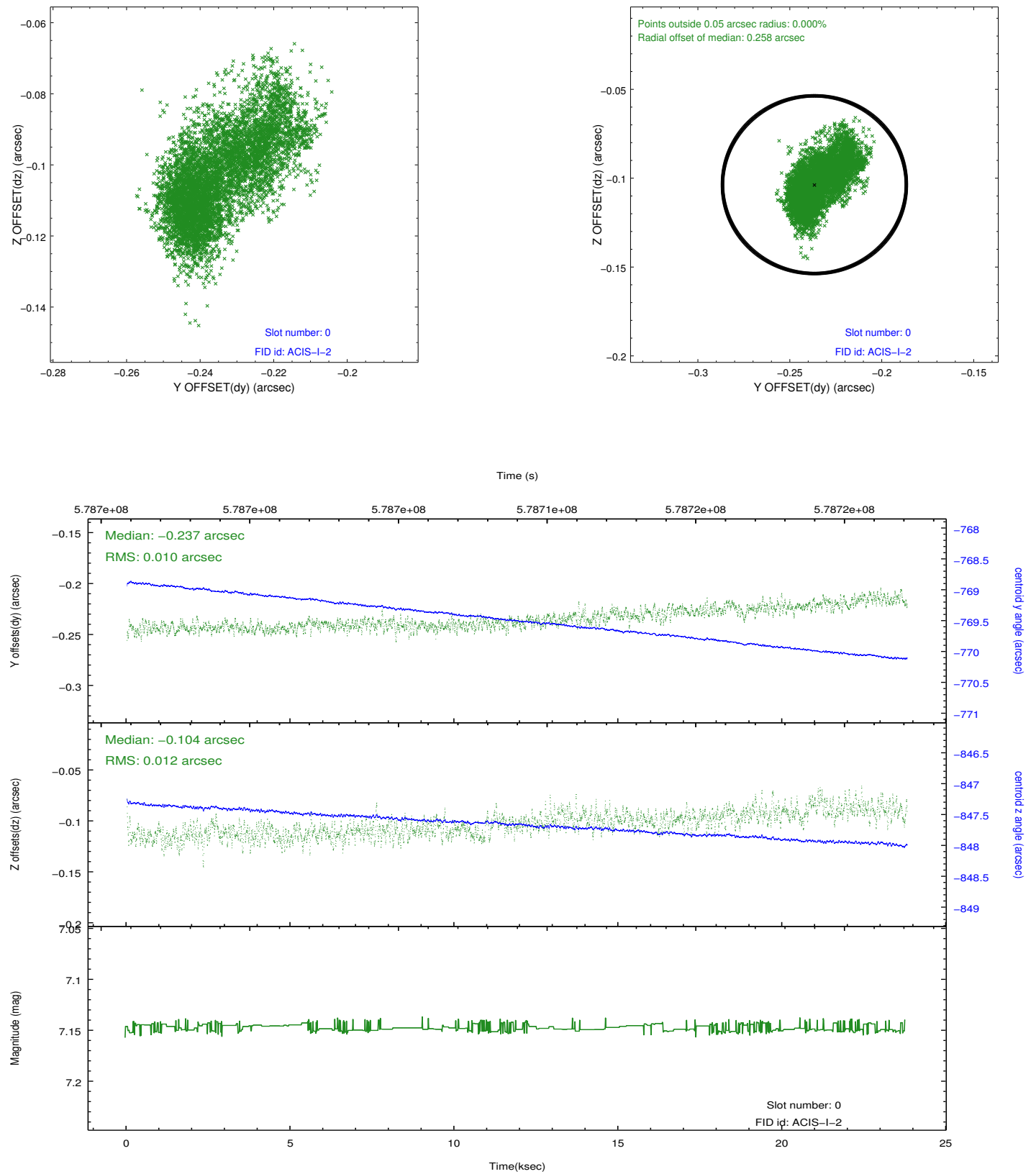


2.4.5 Slot 7

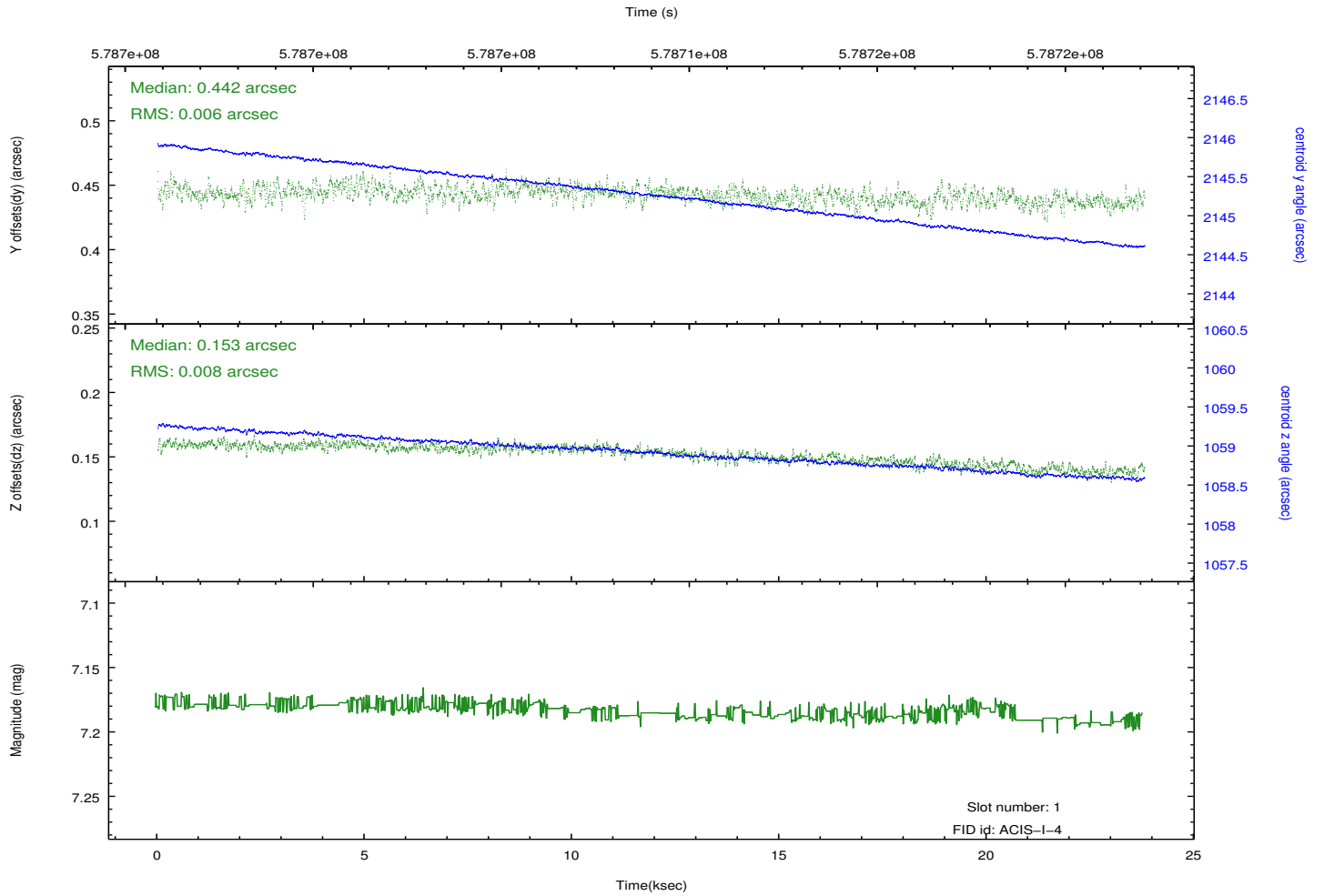
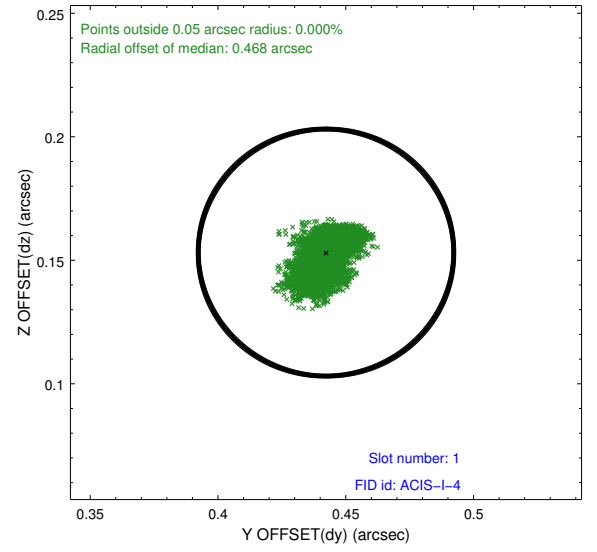
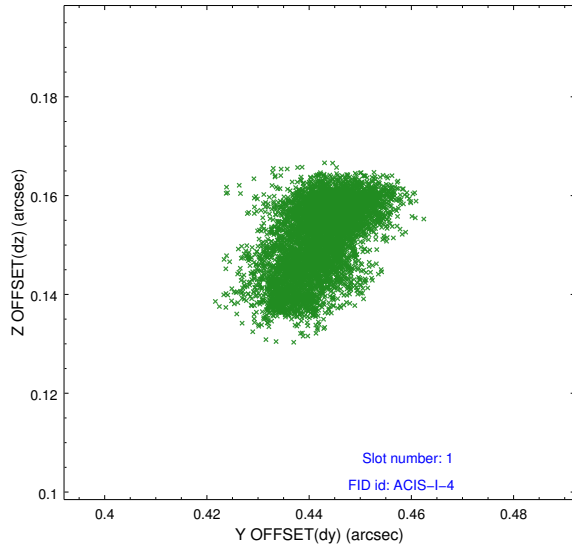


2.5 FID Slots

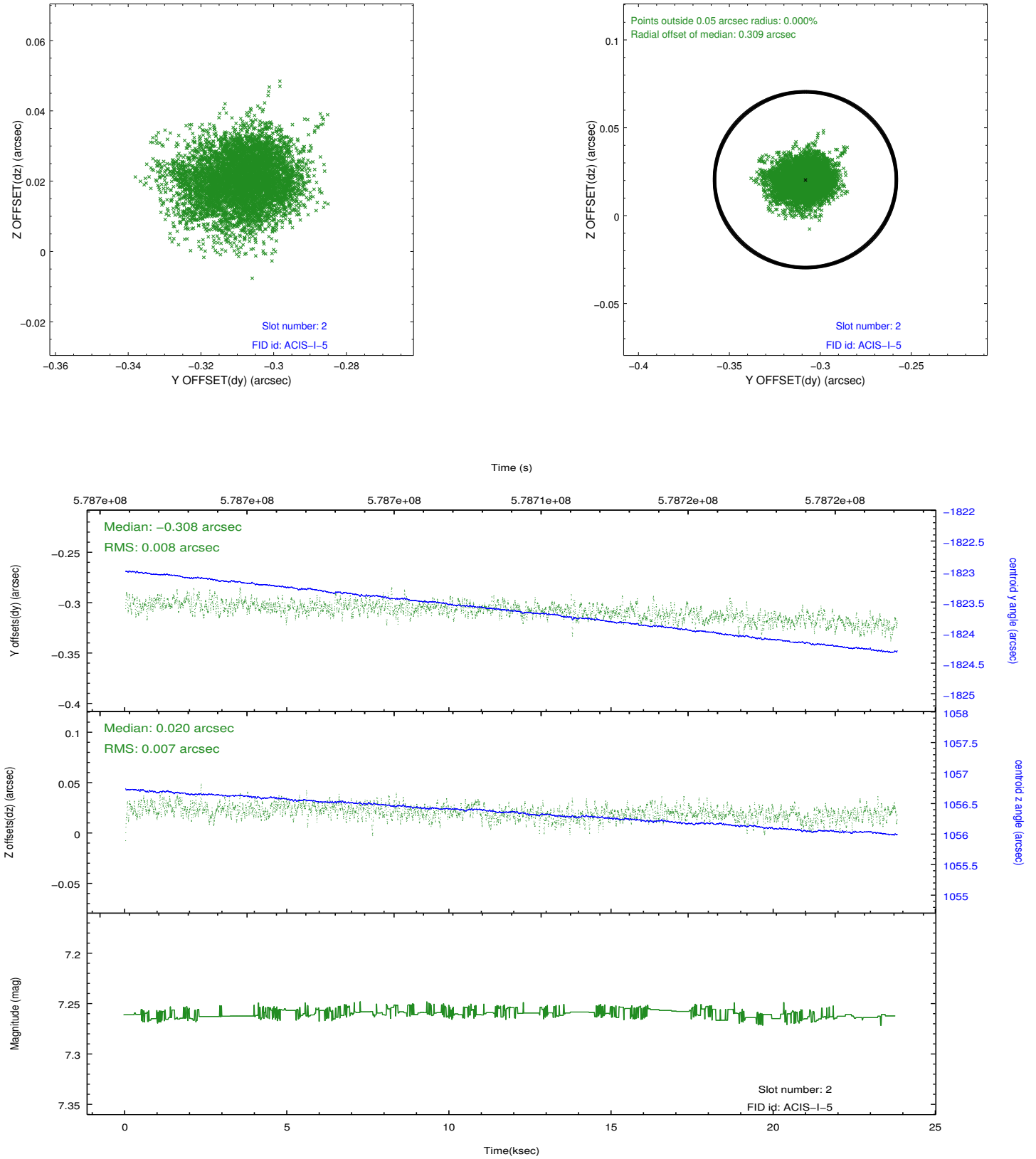
2.5.1 Slot 0



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)	2016.05.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	23.408100180149

A.2 Comments

Two optional chips were dropped.