

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19312 - L2 Version 1
Chandra X-Ray Center

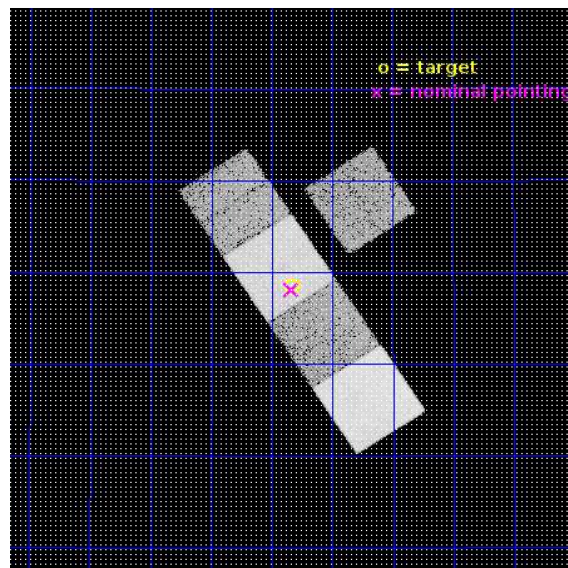
L2 Processing Date : Nov 23 2016

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1 Front

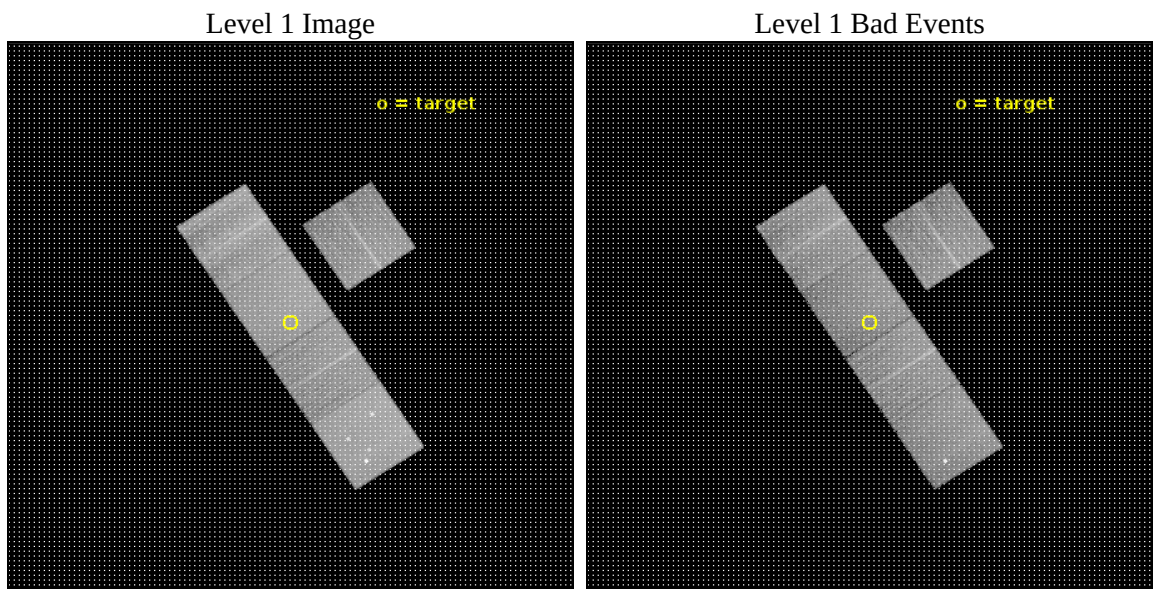
seq_num	601269	Sequence number
obs_id	19312	Observation id
title	A homogeneous view of X-ray halos in massive early-type galaxies	P
observer	Andy Goulding	Principal investigator
object	NGC1066	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	40.957917	Observer's specified target RA [deg]
dec_targ	32.475	Observer's specified target Dec [deg]
ra_nom	40.959519799812	Nominal RA [deg]
dec_nom	32.468554700217	Nominal Dec [deg]
roll_nom	236.80245057092	Nominal Roll [deg]
revision	1	Processing version of data
ontime	17034.353832245	Sum of GTIs [s]
livetime	16811.787458918	Livetime [s]
ontime3	17034.230712295	Sum of GTIs [s]
ontime5	17034.312792301	Sum of GTIs [s]
ontime6	17034.271752238	Sum of GTIs [s]
ontime7	17034.353832245	Sum of GTIs [s]
ontime8	17034.189672232	Sum of GTIs [s]
l2events	185365	Number of level 2 events



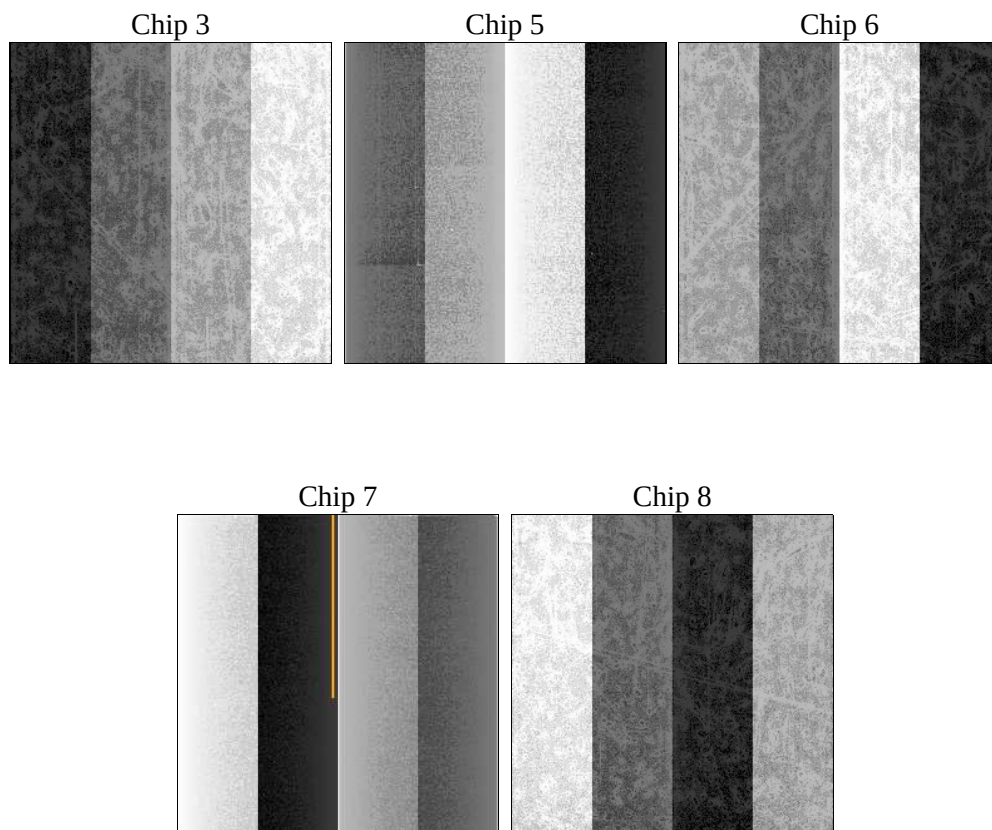
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	17000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	17034.353832245	Sum of GTIs [s]
caldsver	4.7.2	 	ontime3	17034.230712295	Sum of GTIs [s]
date	2016-11-23T14:40:55	Date and time of file creation	ontime5	17034.312792301	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	17034.271752238	Sum of GTIs [s]
			ontime7	17034.353832245	Sum of GTIs [s]
			ontime8	17034.189672232	Sum of GTIs [s]
			l1events	726520	Number of level 1 events

2.1.4 Events

	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	110393	193834	119195	150161	152937
rejected events	98218	99953	104973	84020	109896
rejected %	88%	51%	88%	55%	71%

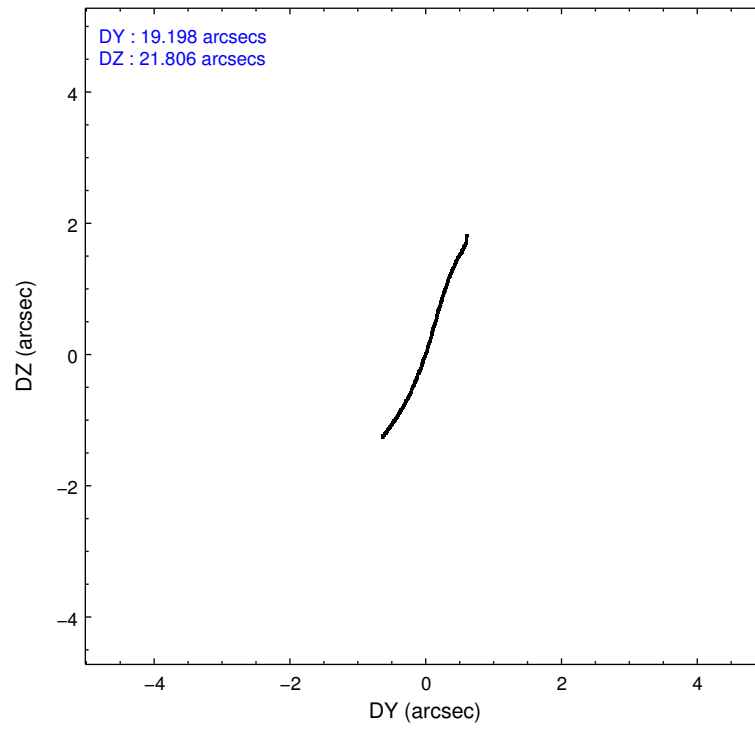
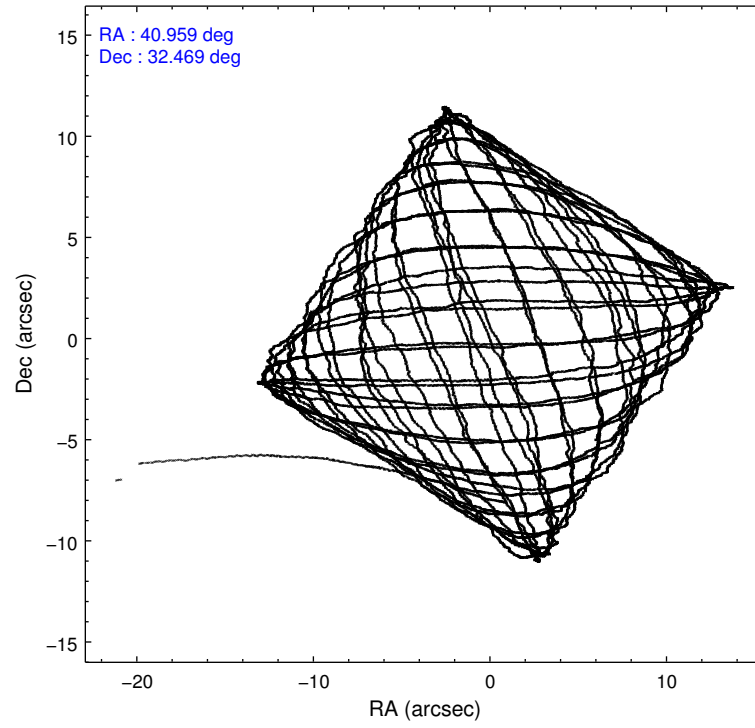
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	4403	11955	5123	6018	11837
	3%	6%	4%	4%	7%
grade 1 events	59	380	64	221	100
	0%	0%	0%	0%	0%
grade 2 events	2635	28481	3212	14116	10517
	2%	14%	2%	9%	6%
grade 3 events	1349	2802	1448	5567	4570
	1%	1%	1%	3%	2%
grade 4 events	1246	2798	1348	5283	4378
	1%	1%	1%	3%	2%
grade 5 events	5573	13224	5681	15083	8218
	5%	6%	4%	10%	5%
grade 6 events	2546	47878	3096	35177	11757
	2%	24%	2%	23%	7%
grade 7 events	92582	86316	99223	68696	101560
	83%	44%	83%	45%	66%

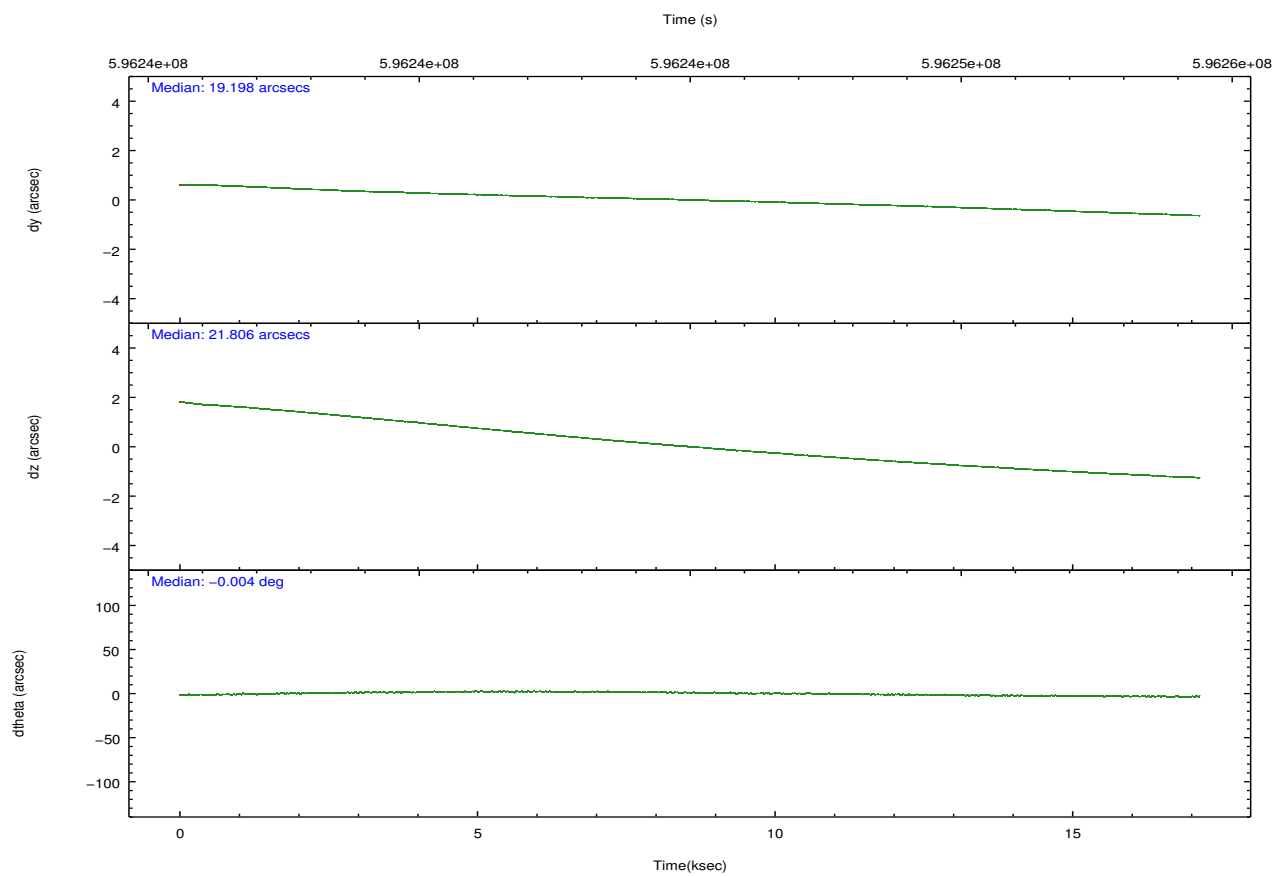
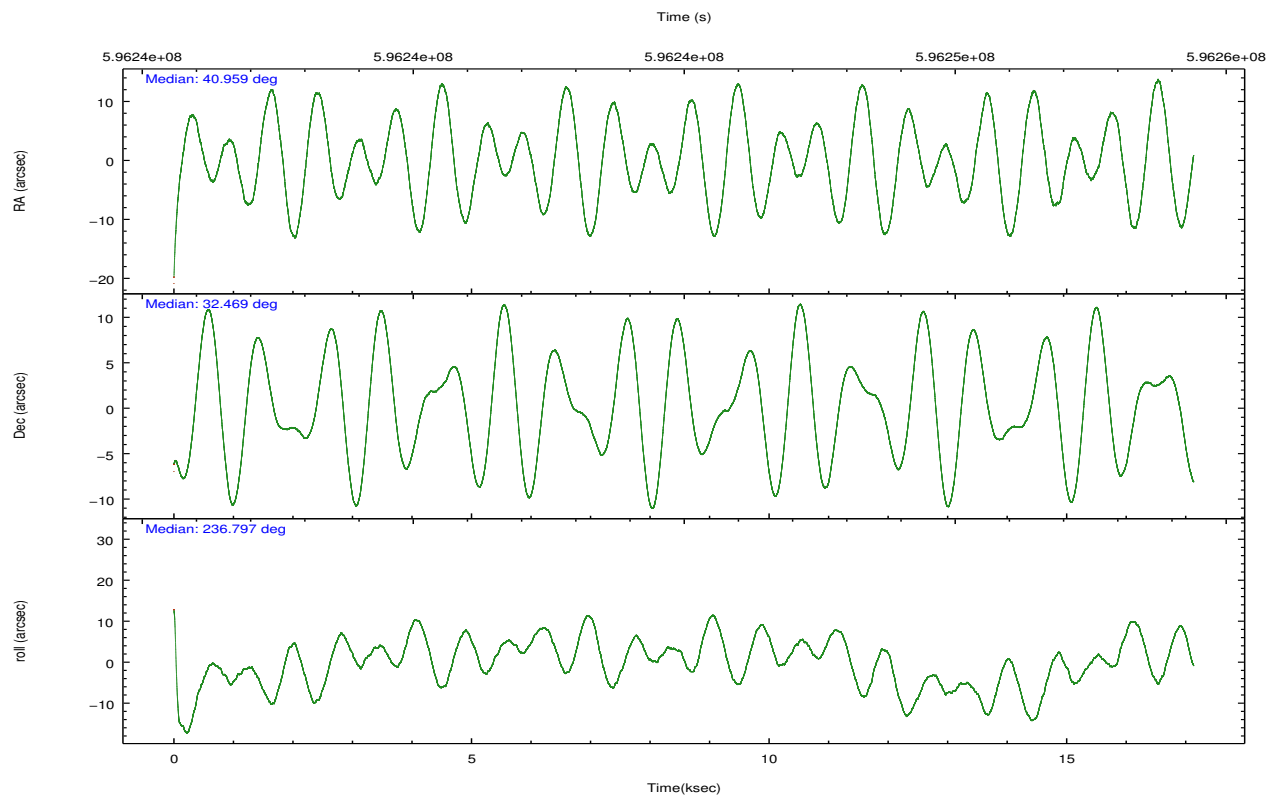
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-35678	ACIS-35678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	40.960905	40.95951979981248
[deg] Pointing Dec	32.495995	32.4685547002173
[deg] Pointing Roll	236.645064	236.8024505709193
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1400660498719
[mm] SIM translation stage offset	0	0.00754346686406393
[s] Observation start time (MET)	596236545.184000	596235230.3179801
Observation start date	2016-11-22T21:14:37	2016-11-22T20:53:50
[s] Observation end time (MET)	596253545.184000	596254256.3690701
Observation end date	2016-11-23T01:57:57	2016-11-23T02:10:56
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	N	N
CCD I1 on	N	N
CCD I2 on	O1	N
CCD I3 on	O2	Y
CCD S0 on	N	N
CCD S1 on	Y	Y
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	N	N
Number of optional ACIS chips dropped	1	1
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



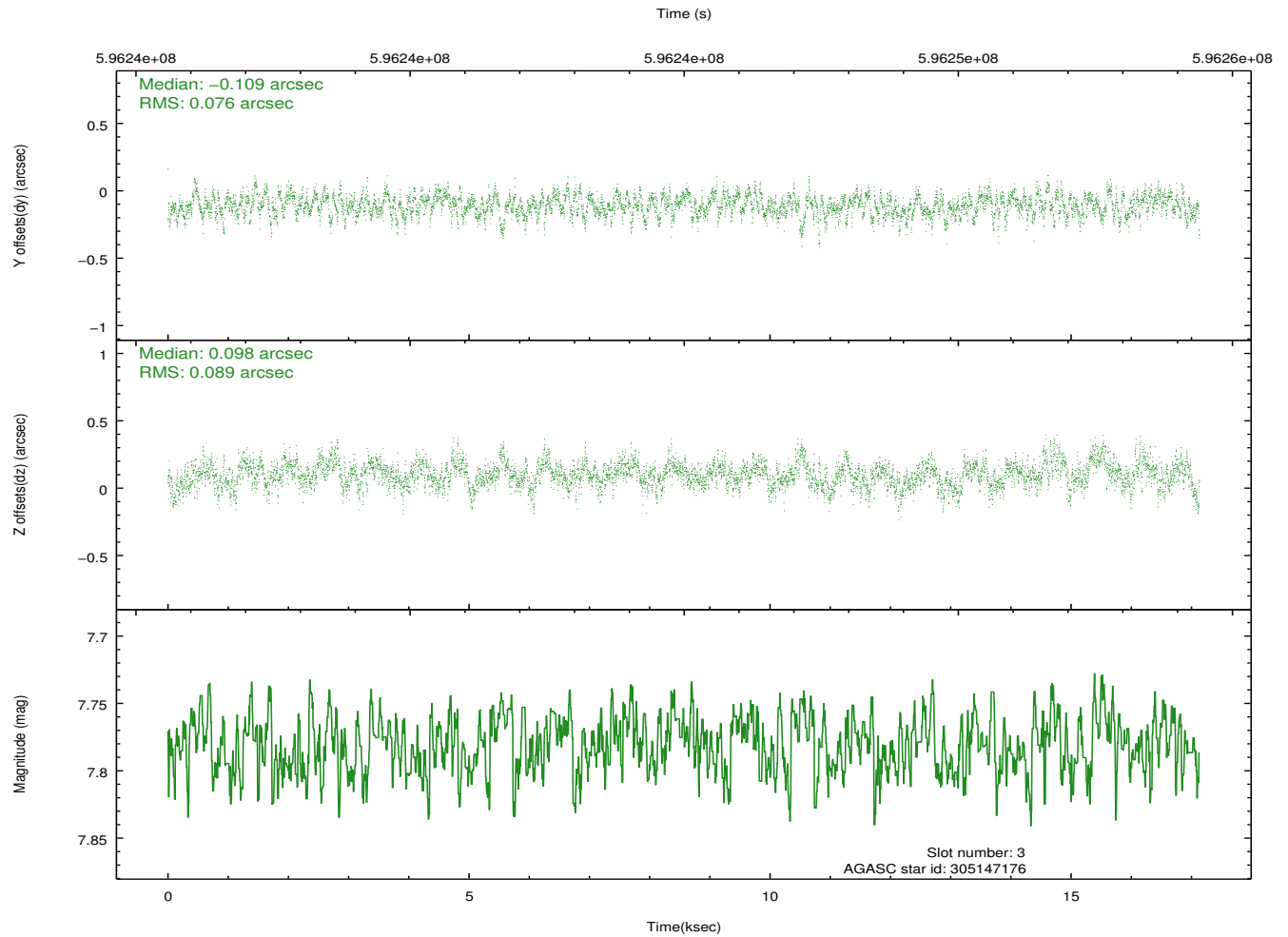
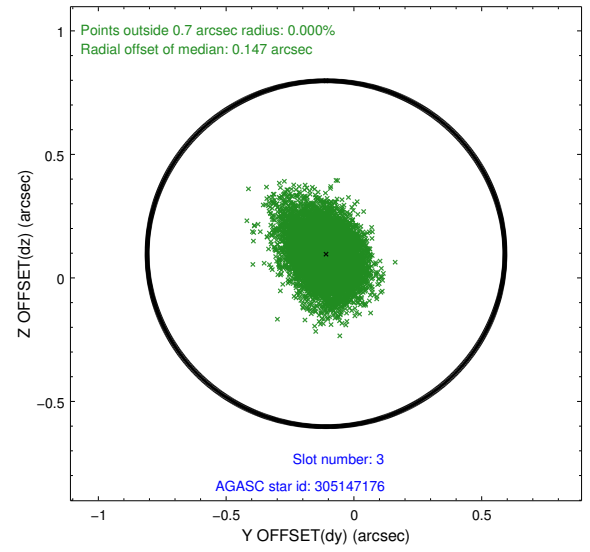
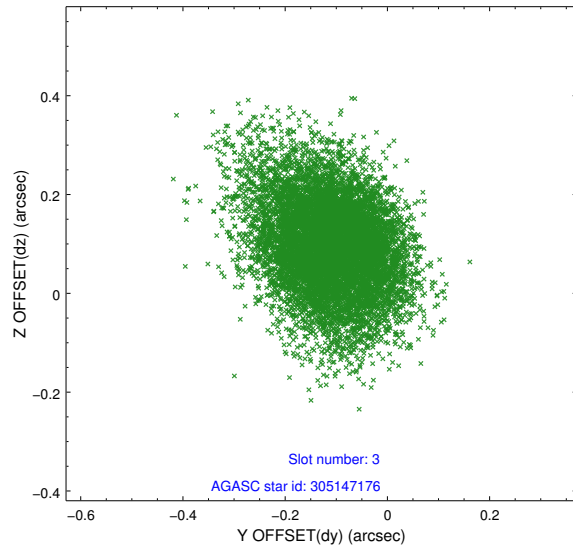


Slot Statistics

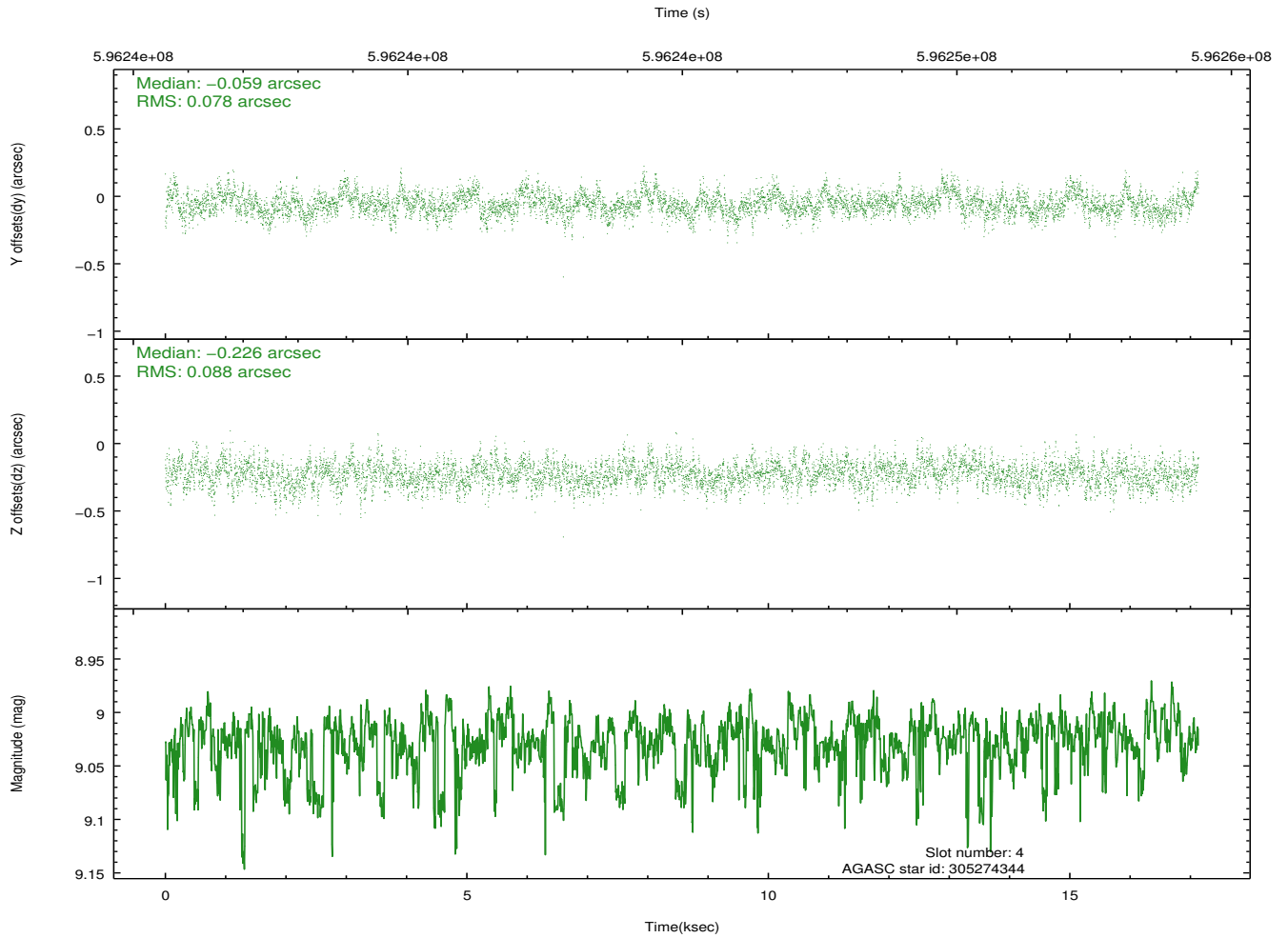
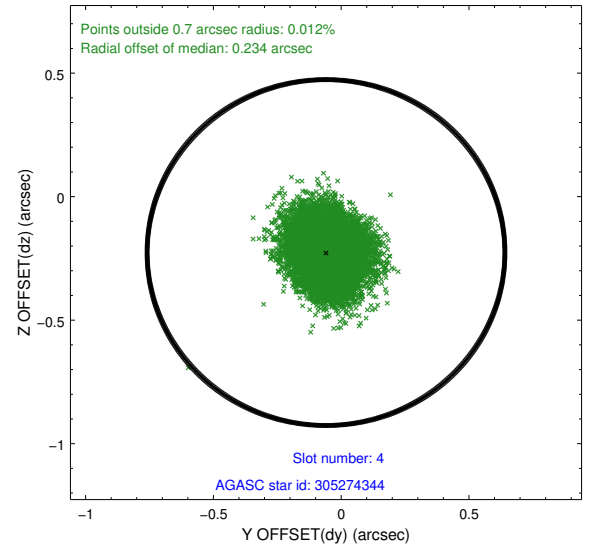
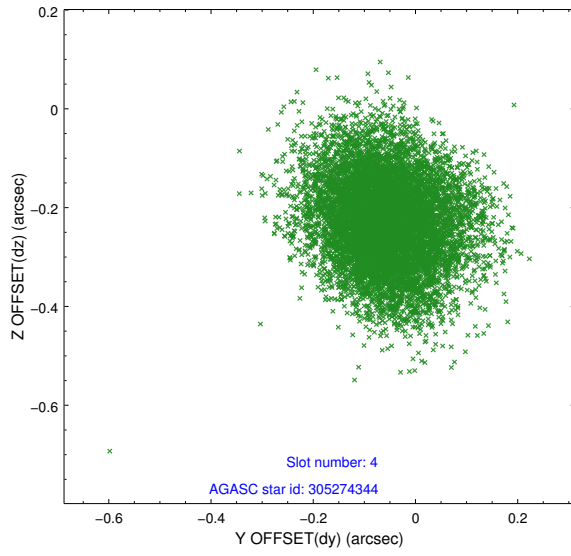
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.97	4180	-0.215	-0.114	0.023	0.037	0.000000	0.000000	-772.49	-1743.59
1	FID		ACIS-S-4	7.08	4179	0.464	0.133	0.011	0.016	0.000000	0.000000	2141.35	164.87
2	FID		ACIS-S-5	7.08	4179	-0.281	-0.014	0.020	0.026	0.000000	0.000000	-1825.08	158.68
3	GUIDE	used	305147176	7.78	8358	-0.109	0.098	0.123	0.208	40.109077	32.320442	1944.60	-1822.19
4	GUIDE	used	305274344	9.03	8353	-0.059	-0.226	0.125	0.201	41.280796	32.752238	-1303.31	302.14
5	GUIDE	used	305277504	9.25	8353	0.141	0.186	0.164	0.267	40.990540	33.060769	-1747.16	-1042.34
6	GUIDE	used	305278880	7.19	8358	0.064	-0.090	0.101	0.169	41.005714	32.370308	303.19	362.74
7	GUIDE	used	305275512	7.71	8354	-0.043	0.034	0.104	0.170	40.696155	32.869449	-683.01	-1407.75

2.4 Star Slots

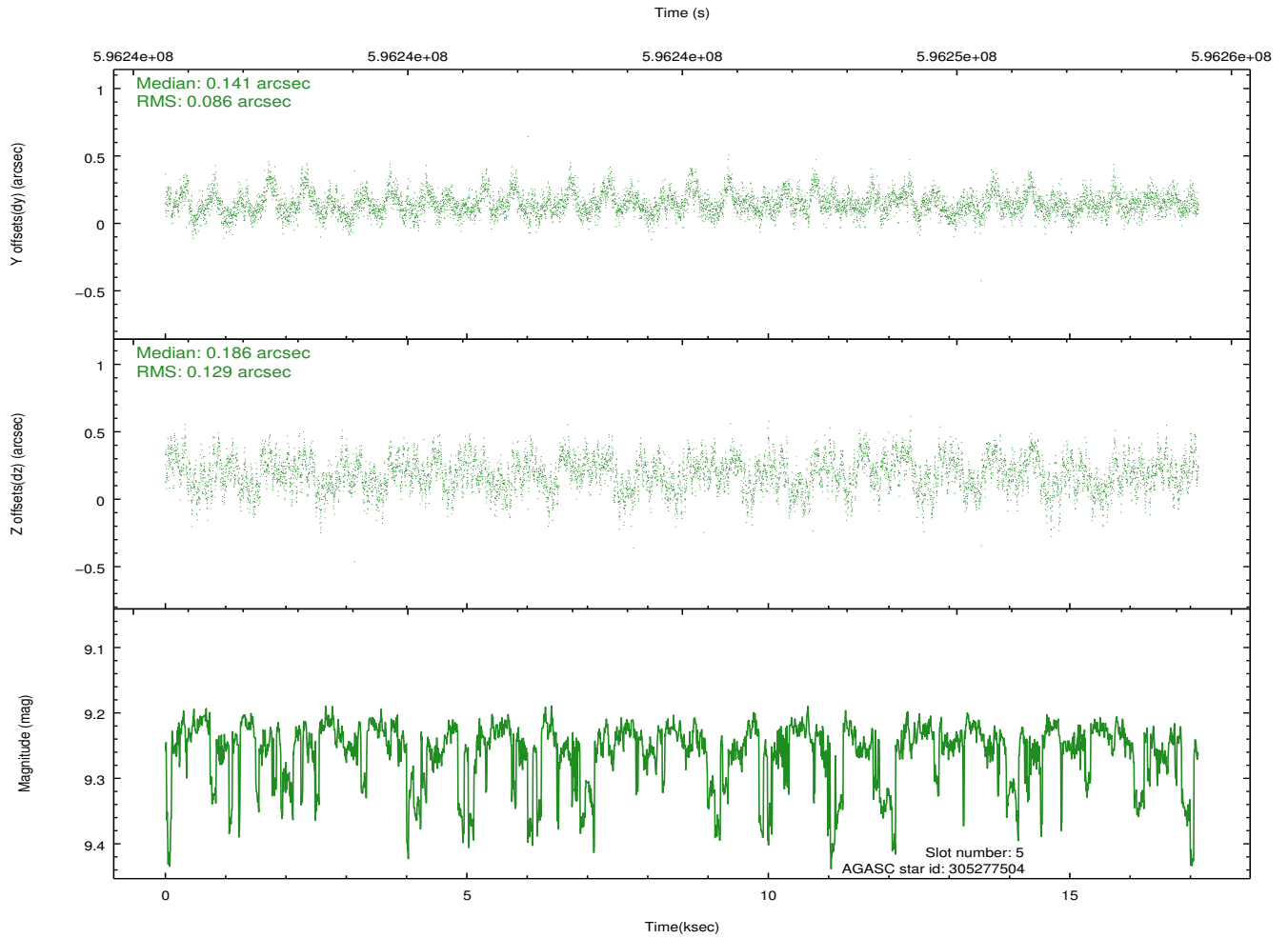
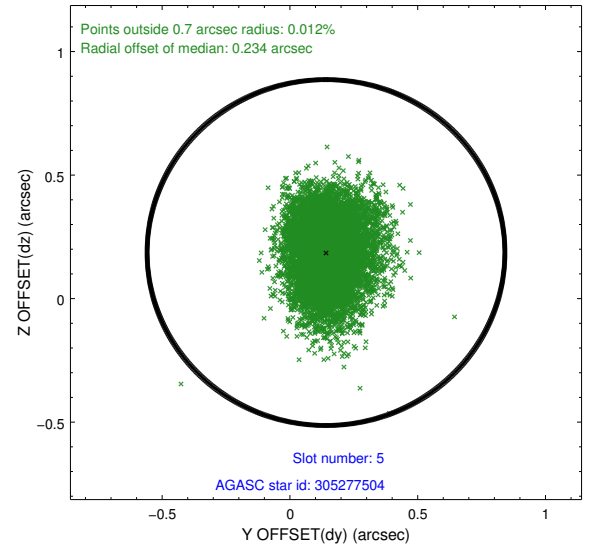
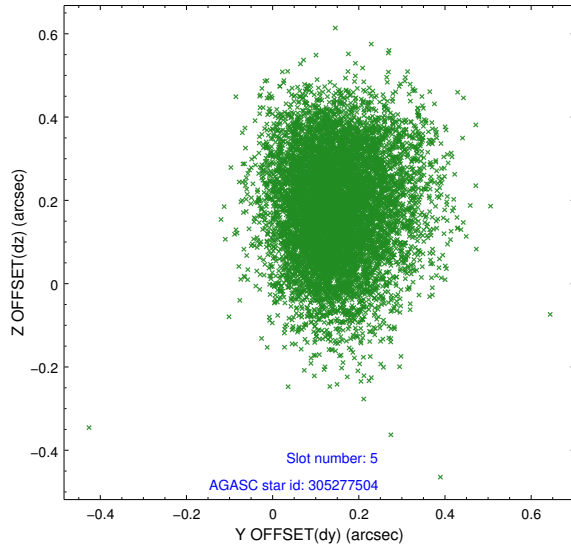
2.4.1 Slot 3



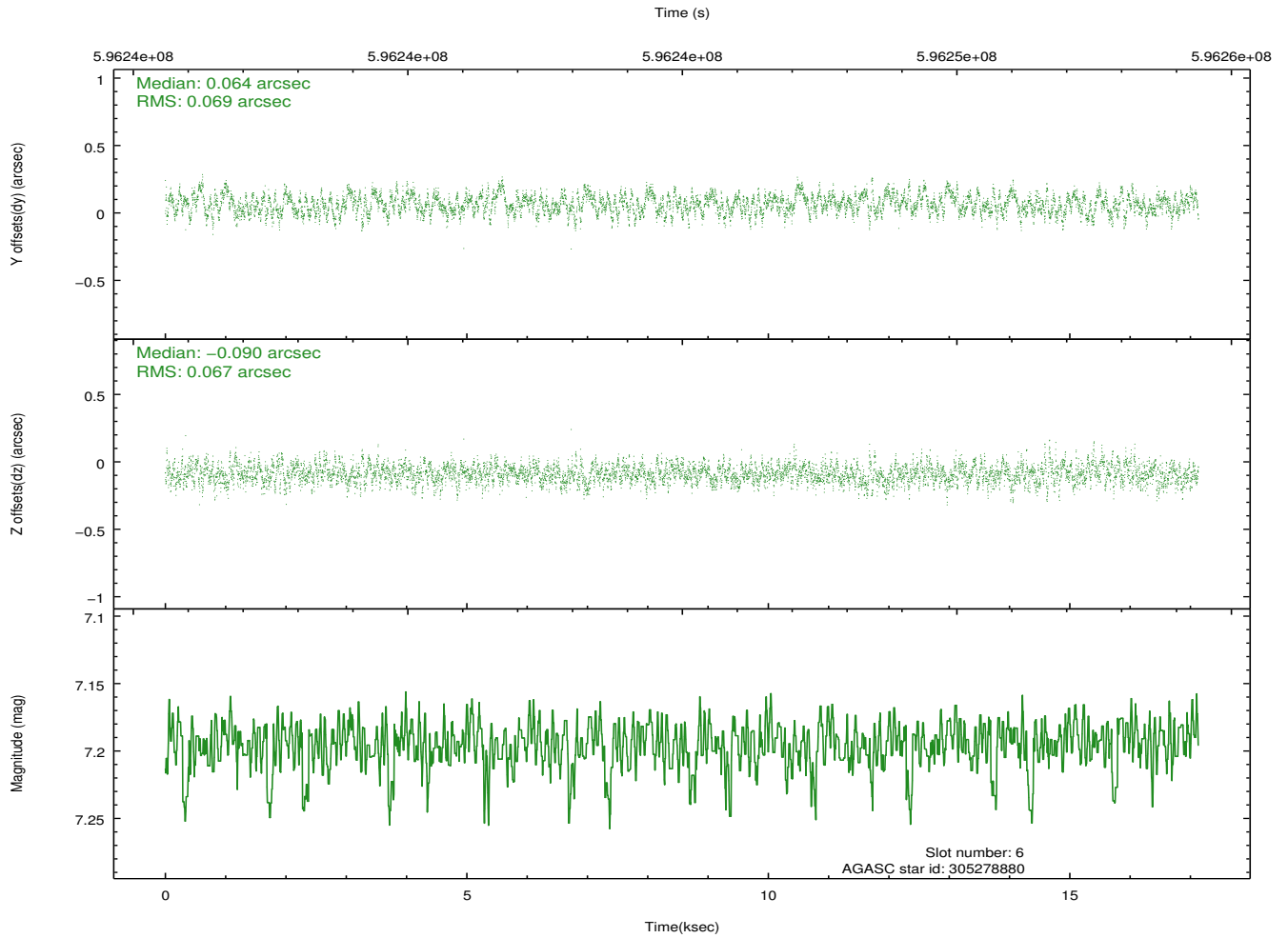
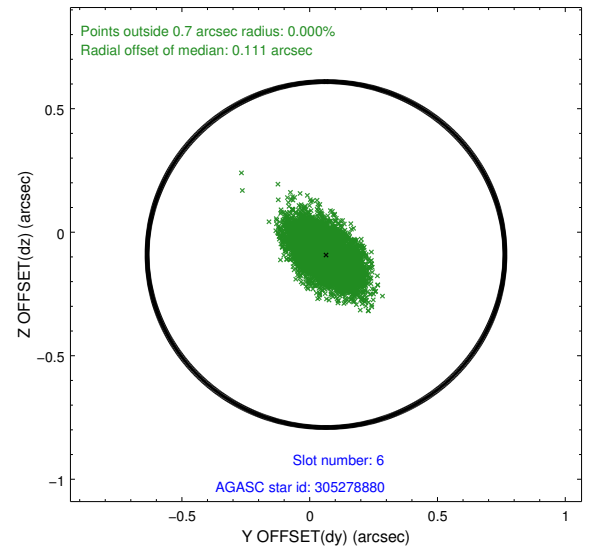
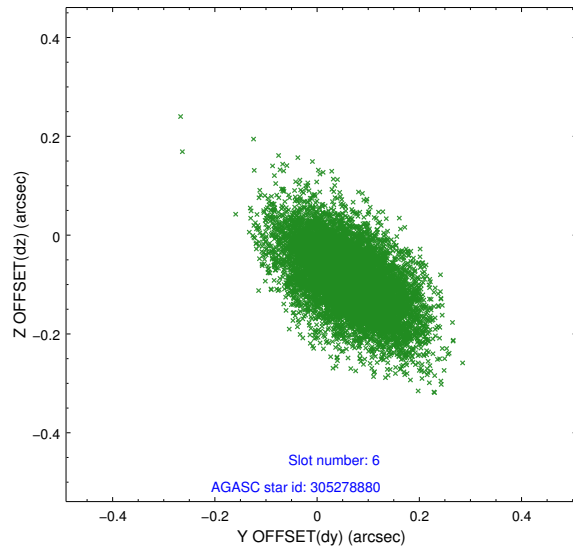
2.4.2 Slot 4



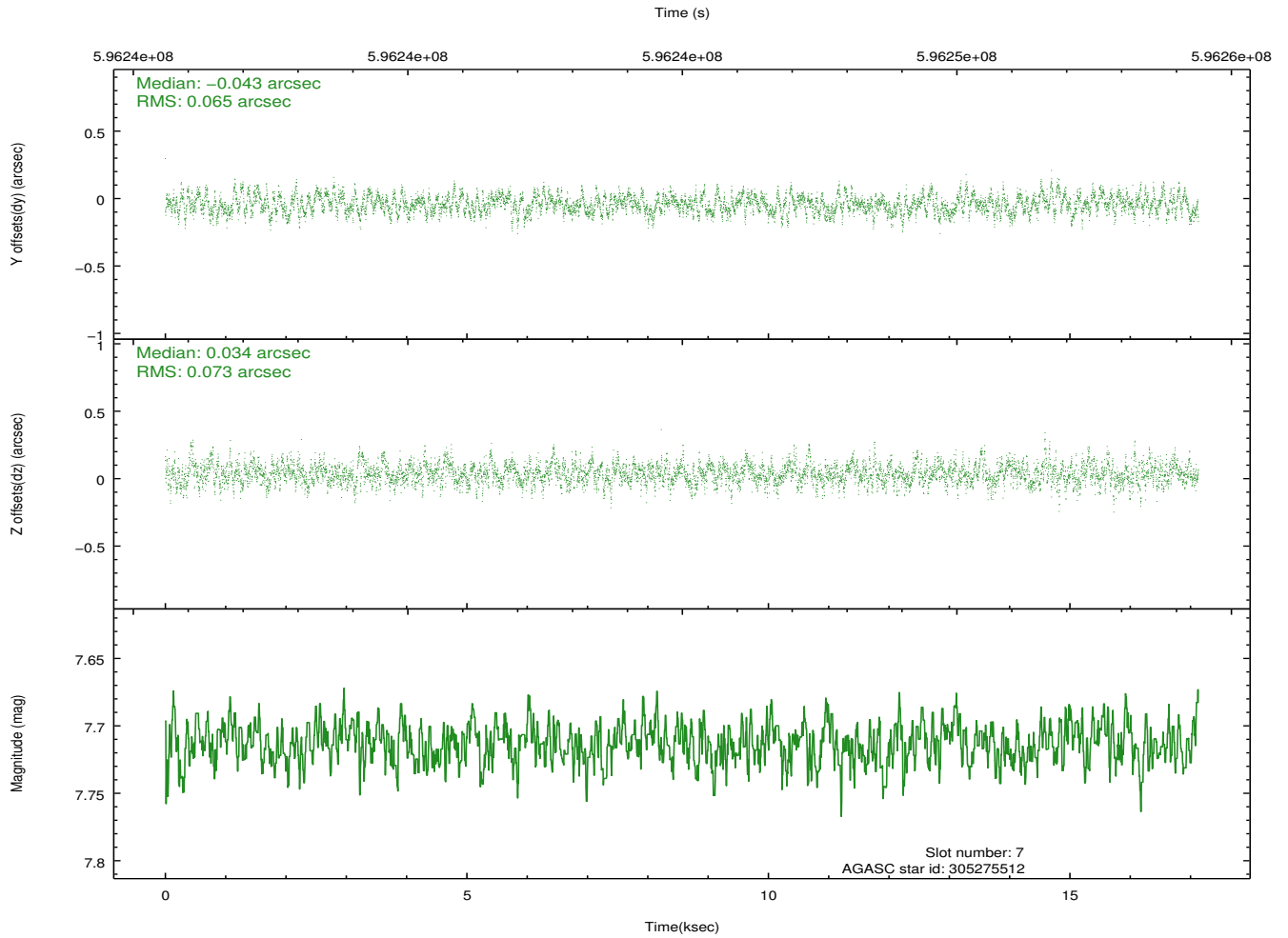
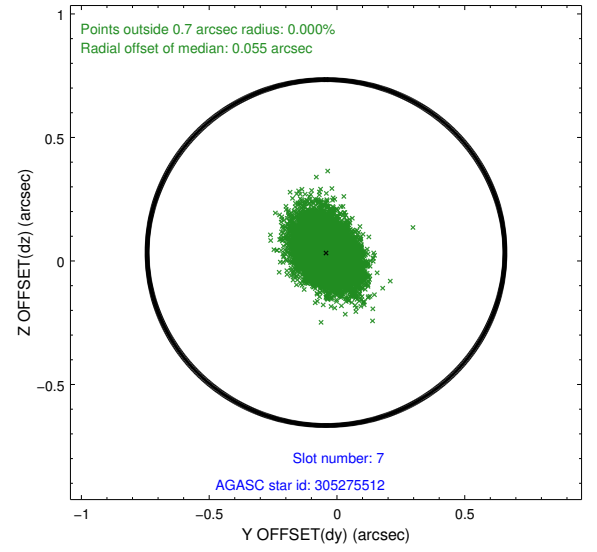
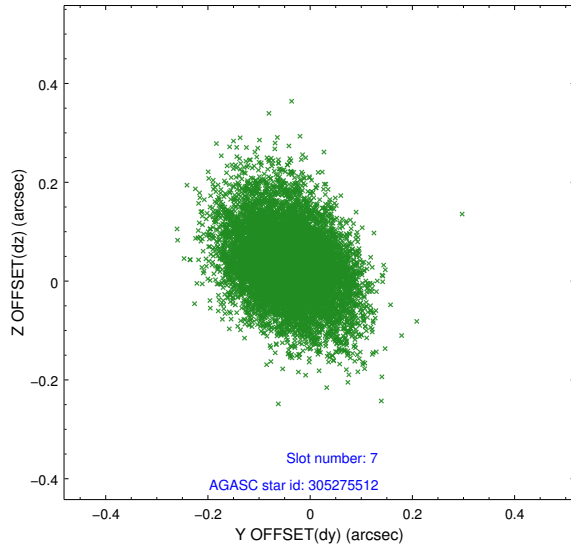
2.4.3 Slot 5



2.4.4 Slot 6

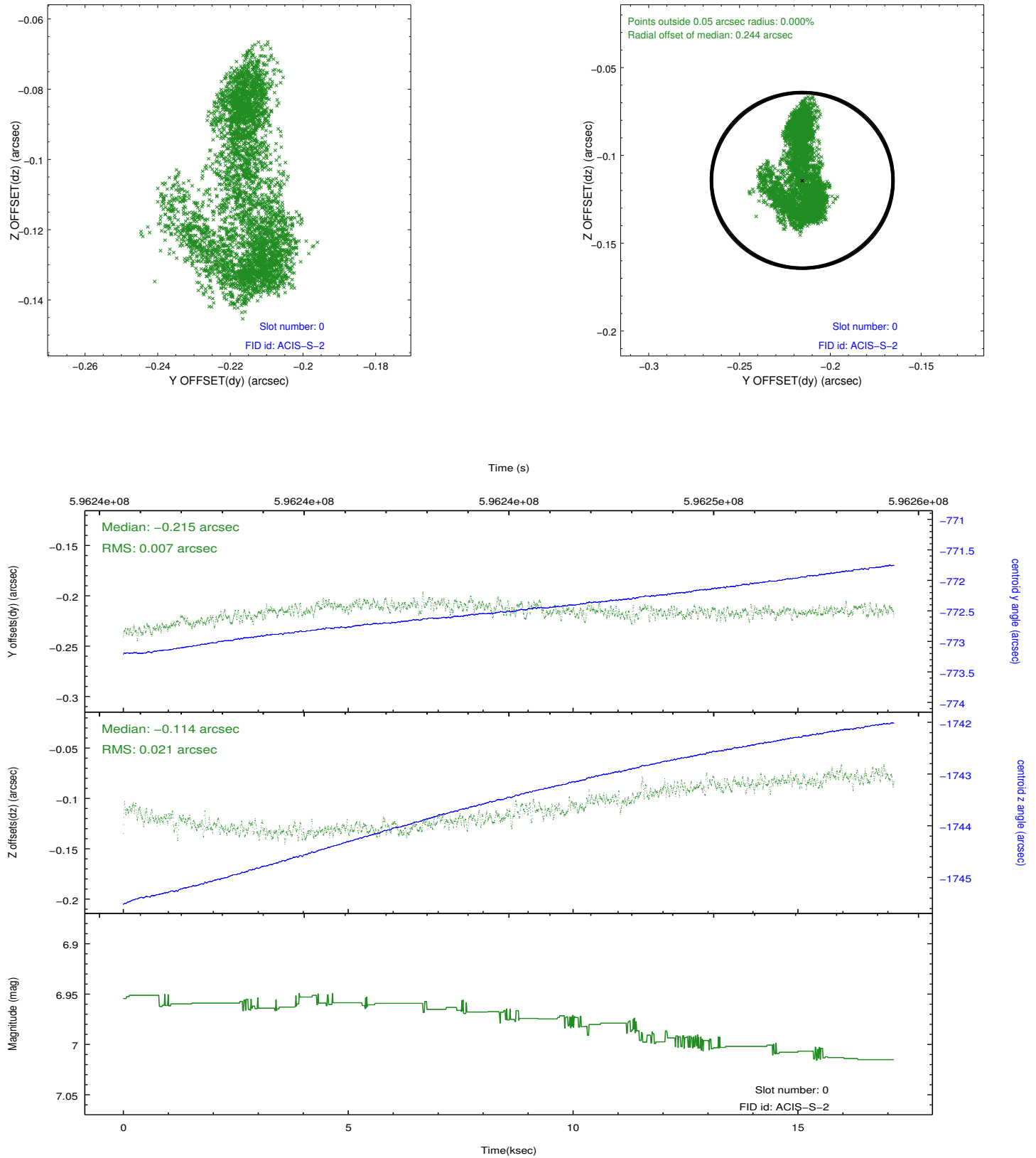


2.4.5 Slot 7

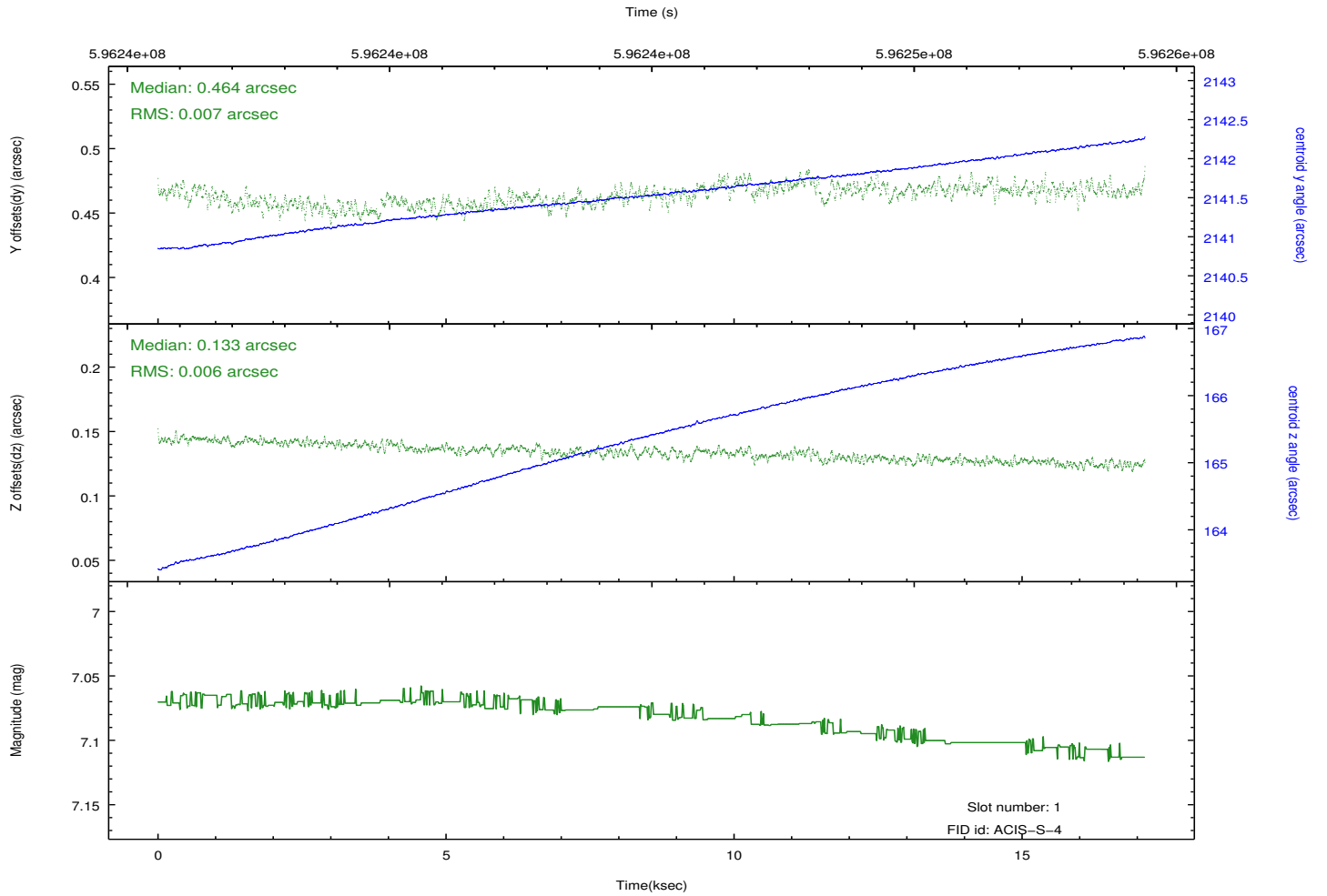
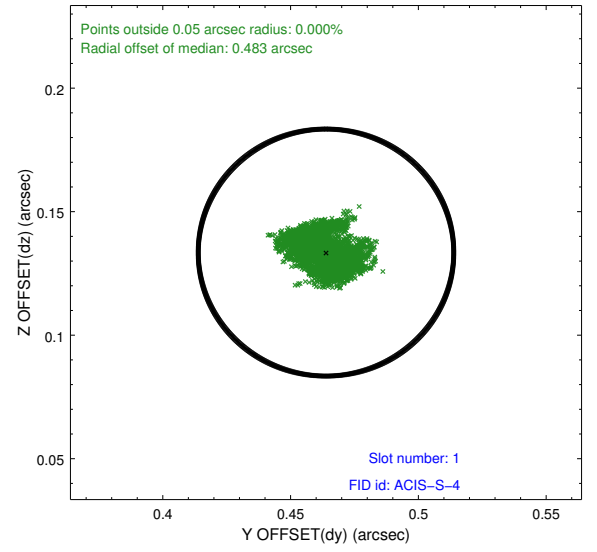
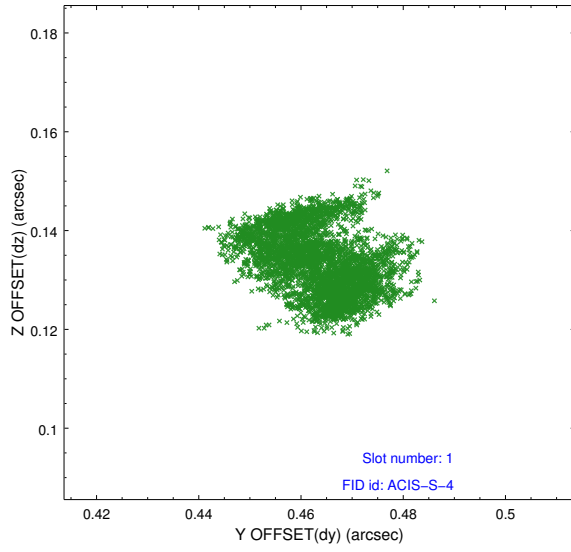


2.5 FID Slots

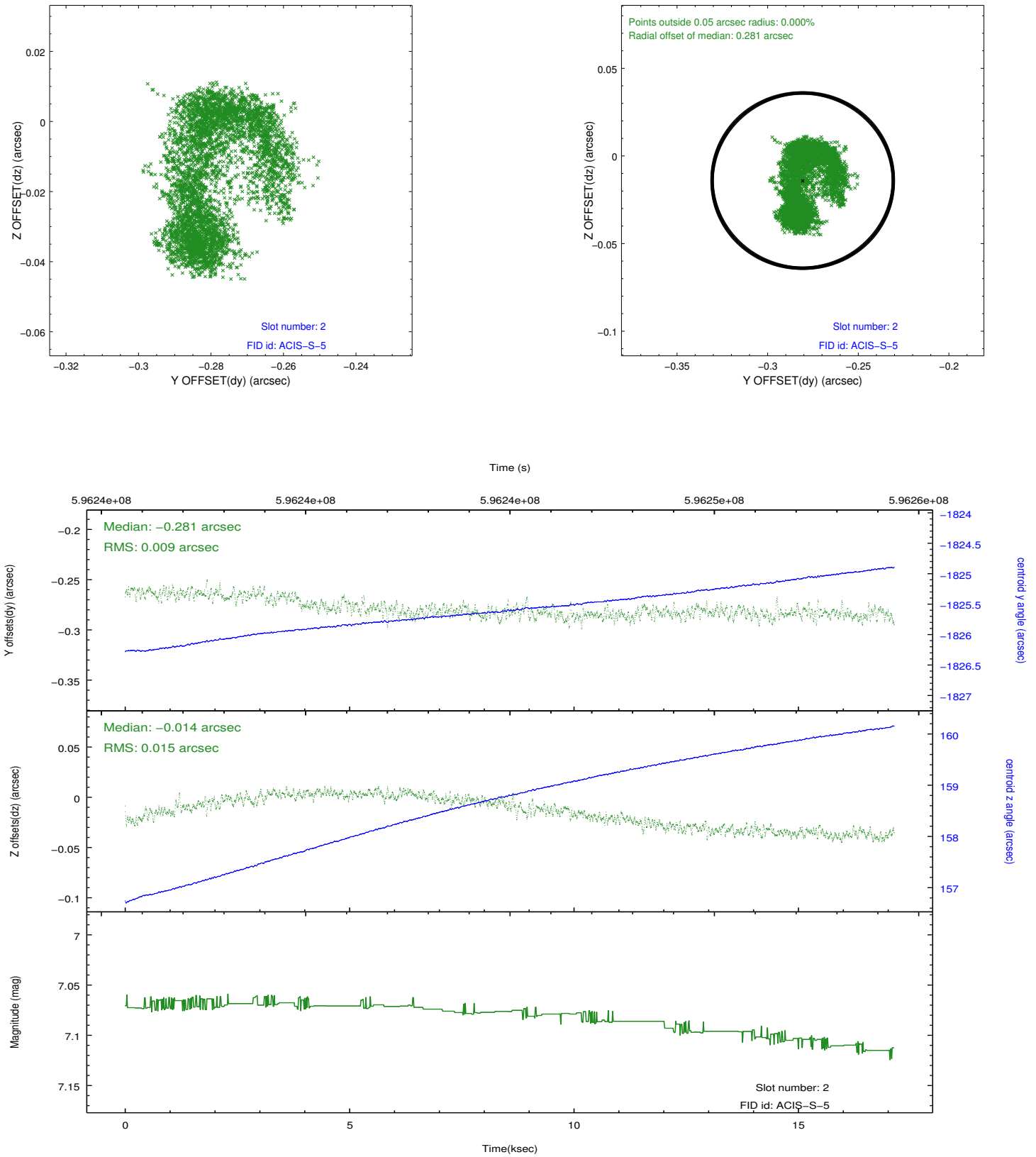
2.5.1 Slot 0



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)	2016.11.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	17.034353832245

A.2 Comments

One optional chip was dropped.