

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18037 - L2 Version 2
Chandra X-Ray Center

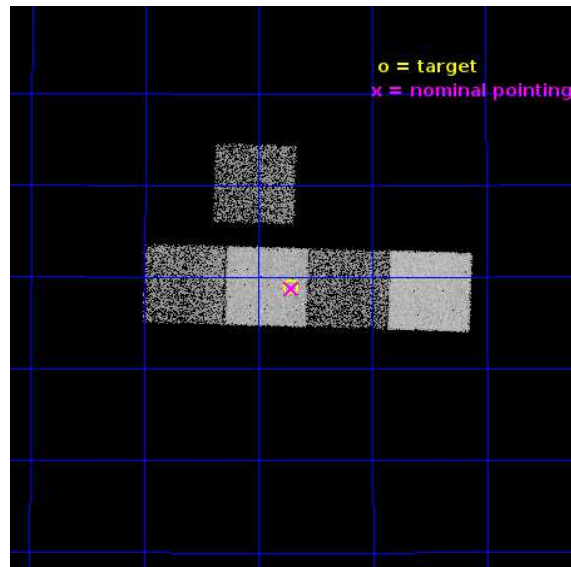
L2 Processing Date : Apr 15 2016

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1 Front

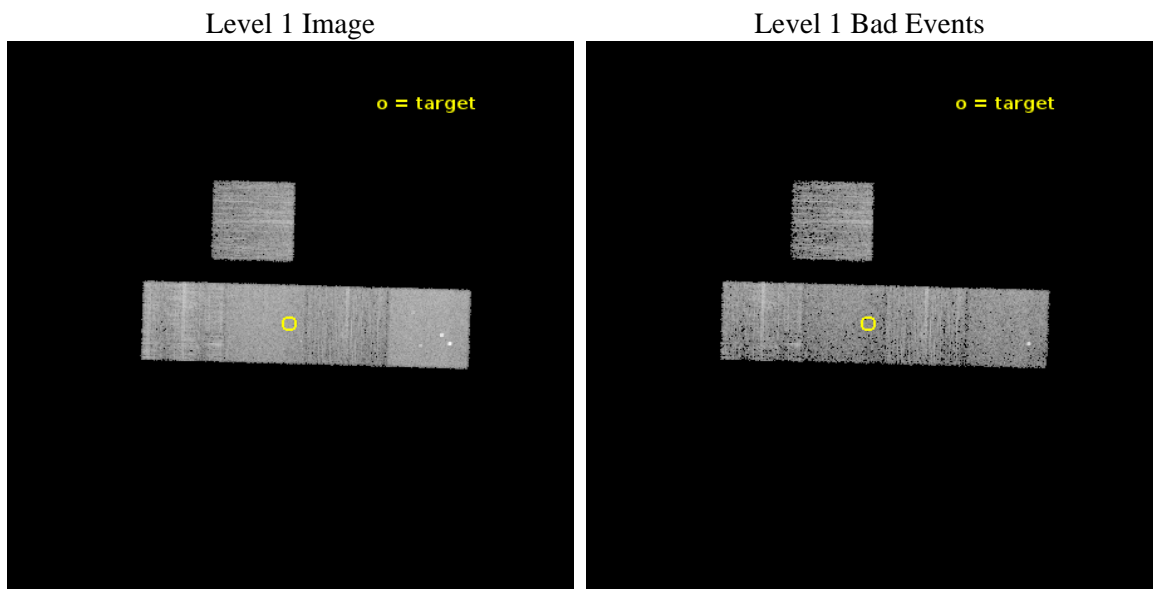
seq_num	601223	Sequence number
obs_id	18037	Observation id
title	The Most Luminous Field Early-type Galaxies	Proposal title
observer	Jimmy Irwin	Principal investigator
object	NGC 4914	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	195.17875	Observer's specified target RA [deg]
dec_targ	37.315278	Observer's specified target Dec [deg]
ra_nom	195.17787710723	Nominal RA [deg]
dec_nom	37.312656357669	Nominal Dec [deg]
roll_nom	181.65701311576	Nominal Roll [deg]
revision	2	Processing version of data
ontime	6348.8000489473	Sum of GTIs [s]
livetime	6265.8483023892	Livetime [s]
ontime3	6348.8000489473	Sum of GTIs [s]
ontime5	6348.8000489473	Sum of GTIs [s]
ontime6	6348.8000489473	Sum of GTIs [s]
ontime7	6348.8000489473	Sum of GTIs [s]
ontime8	6345.6590687037	Sum of GTIs [s]
l2events	62706	Number of level 2 events



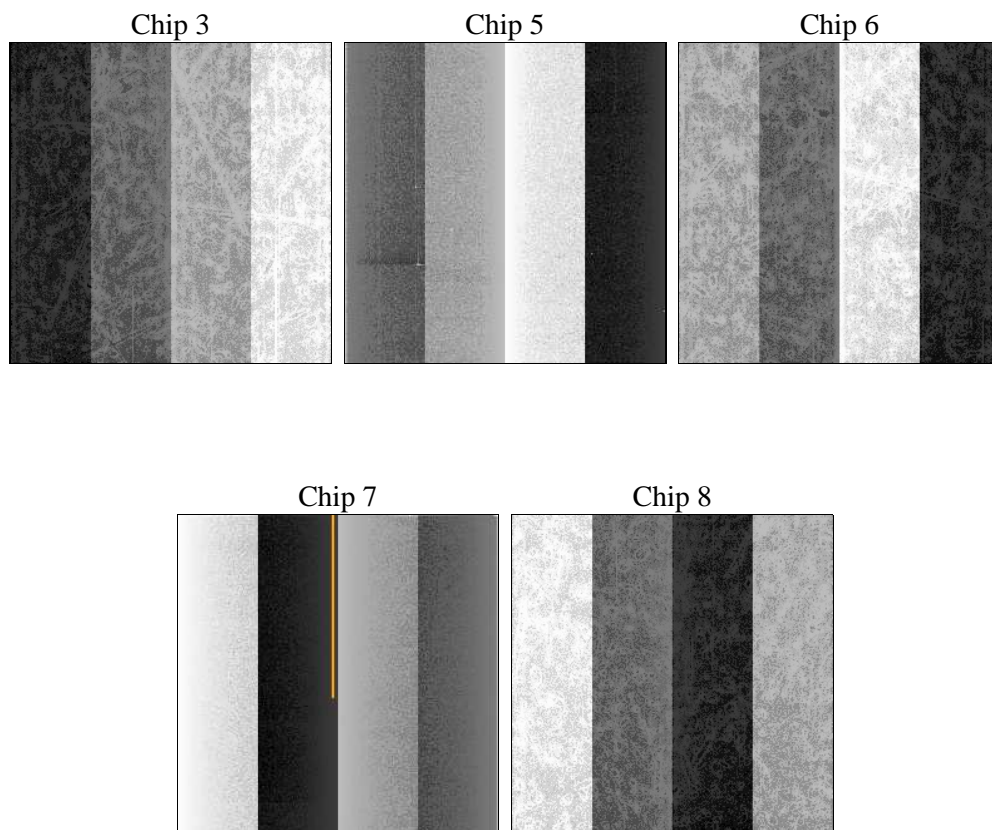
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6312.574000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	6348.8000489473	Sum of GTIs [s]
caldsver	4.7.1	 	ontime3	6348.8000489473	Sum of GTIs [s]
date	2016-04-15T16:16:45	Date and time of file creation	ontime5	6348.8000489473	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	6348.8000489473	Sum of GTIs [s]
			ontime7	6348.8000489473	Sum of GTIs [s]
			ontime8	6345.6590687037	Sum of GTIs [s]
			l1events	245180	Number of level 1 events

2.1.4 Events

	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	36474	64706	39944	51136	52920
rejected events	32353	32948	35495	28732	38503
rejected %	88%	50%	88%	56%	72%

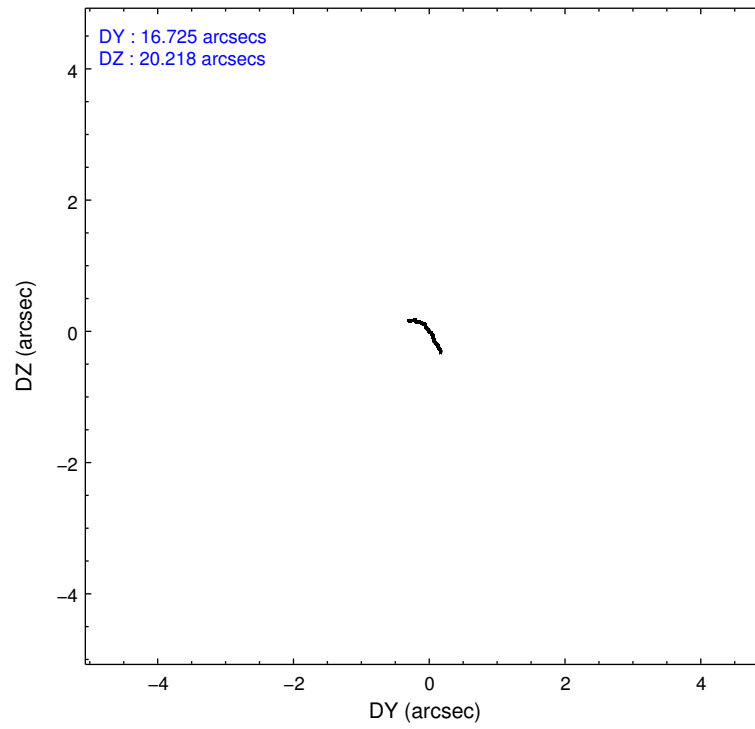
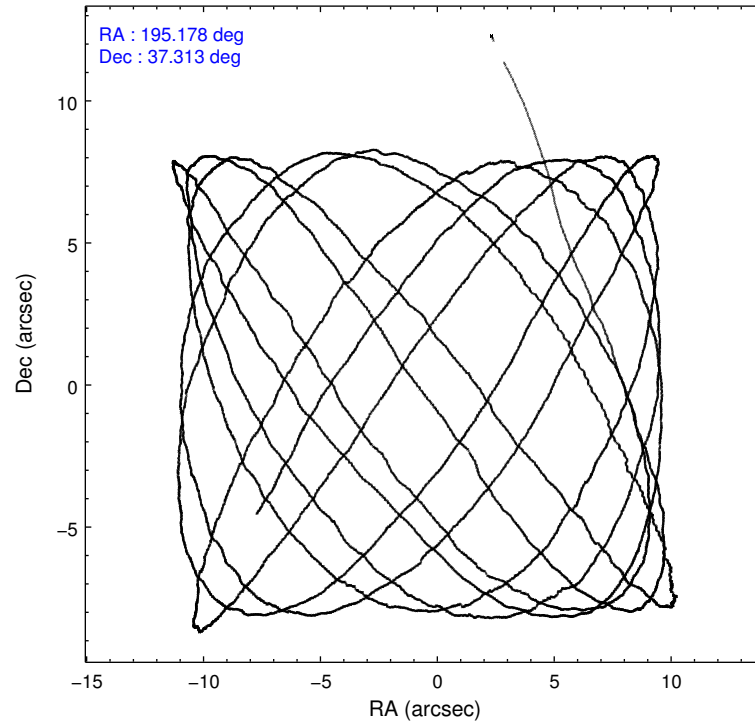
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	1466	3561	1526	1977	4079
	4%	5%	3%	3%	7%
grade 1 events	23	139	22	55	31
	0%	0%	0%	0%	0%
grade 2 events	912	10041	1023	4792	3474
	2%	15%	2%	9%	6%
grade 3 events	451	966	459	1841	1524
	1%	1%	1%	3%	2%
grade 4 events	440	997	427	1841	1455
	1%	1%	1%	3%	2%
grade 5 events	1865	4611	1897	5241	2798
	5%	7%	4%	10%	5%
grade 6 events	857	16239	1023	11977	3898
	2%	25%	2%	23%	7%
grade 7 events	30460	28152	33567	23412	35661
	83%	43%	84%	45%	67%

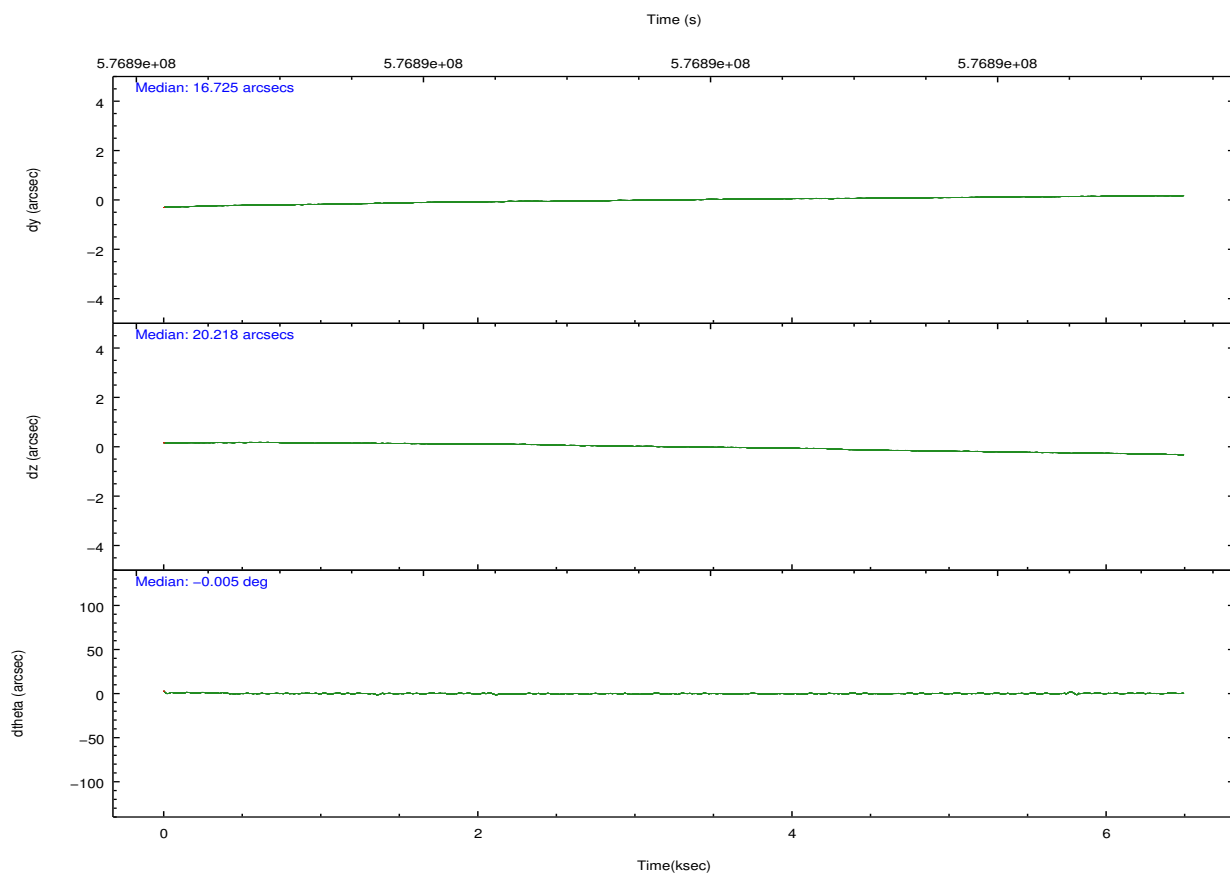
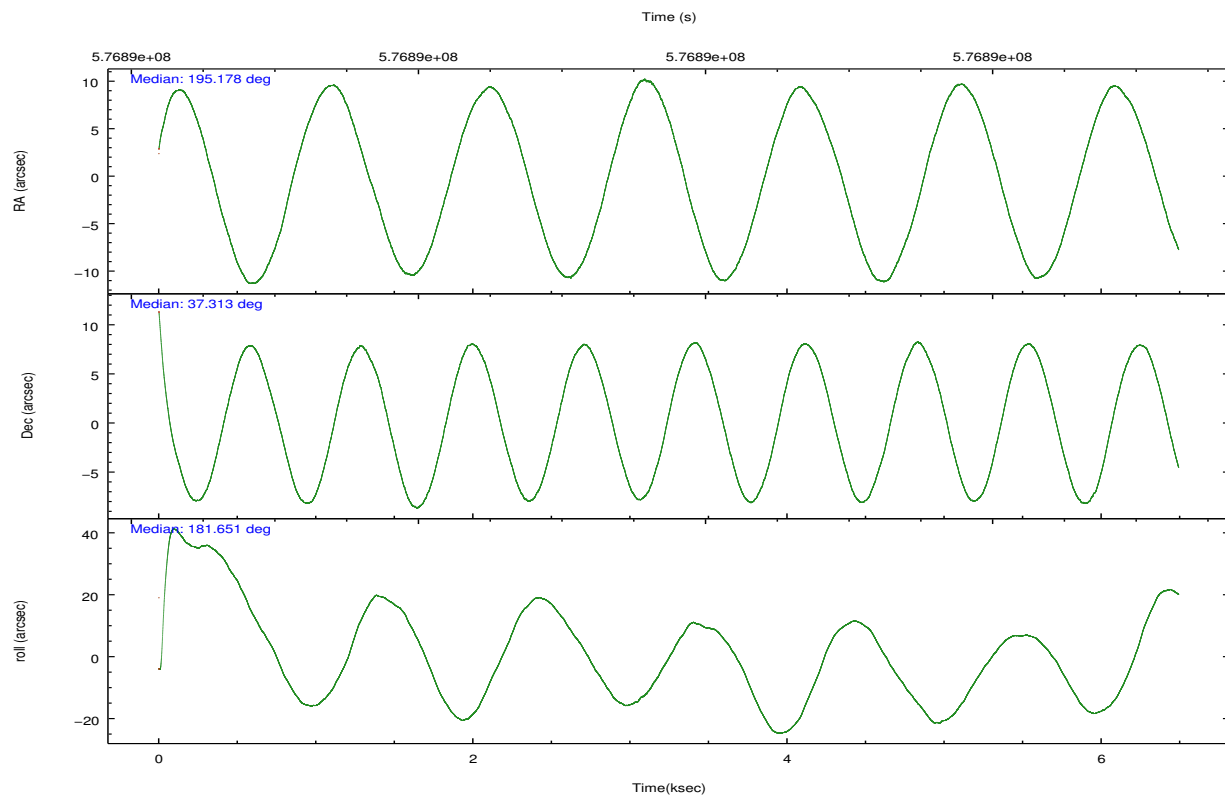
2.2 Compared Parameters

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	195.206932	195.1778771072282
[deg] Pointing Dec	37.327368	37.31265635766891
[deg] Pointing Roll	181.482919	181.6570131157627
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1425803651734
[mm] SIM translation stage offset	0	0.01005778216563158
[s] Observation start time (MET)	576888694.184000	576887564.95682
Observation start date	2016-04-12T22:50:26	2016-04-12T22:32:44
[s] Observation end time (MET)	576895007.184000	576895235.0322599
Observation end date	2016-04-13T00:35:39	2016-04-13T00:40:35
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	N	N
CCD I3 on	Y	Y
CCD S0 on	N	N
CCD S1 on	Y	Y
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	O1	Y
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



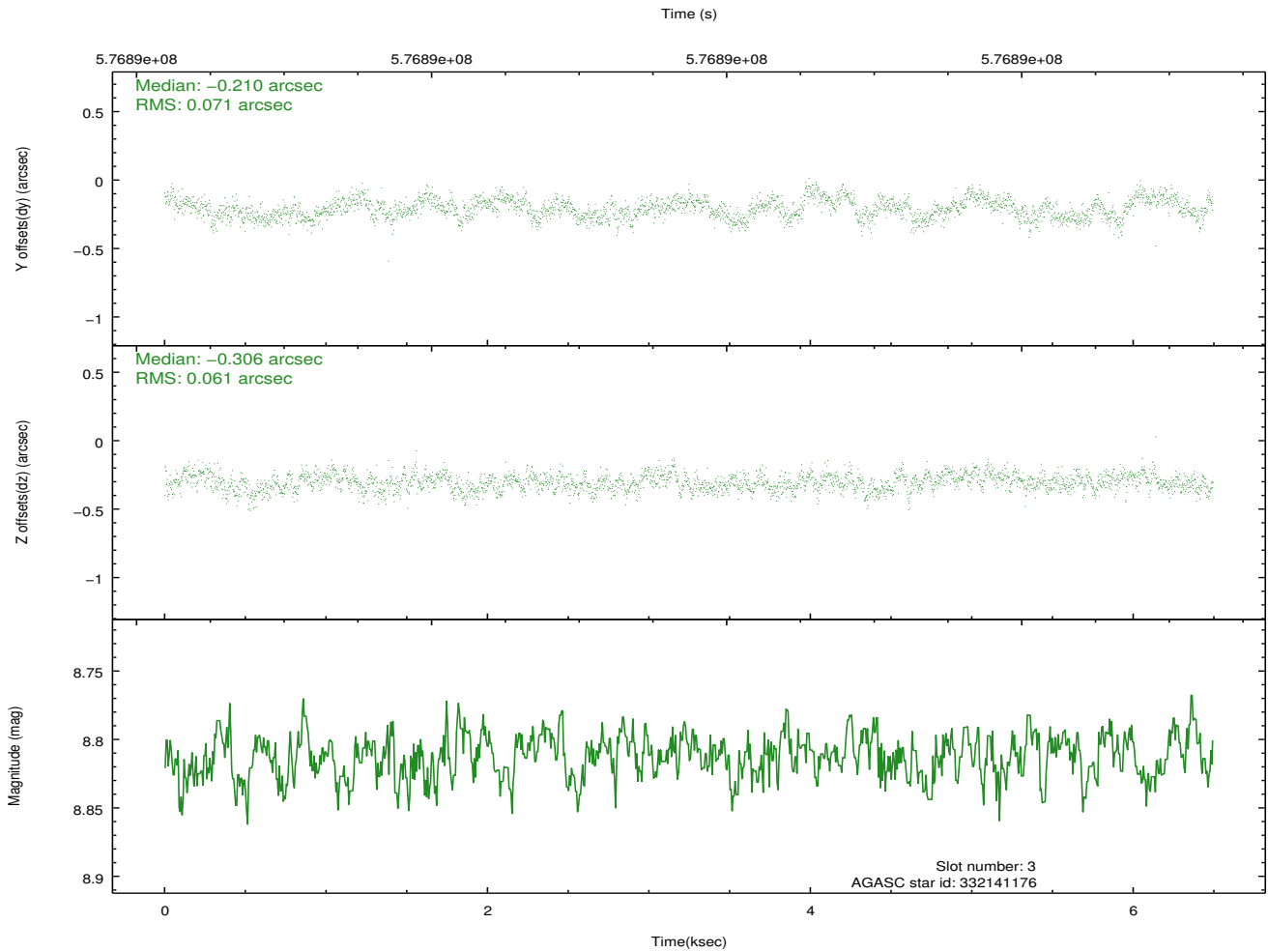
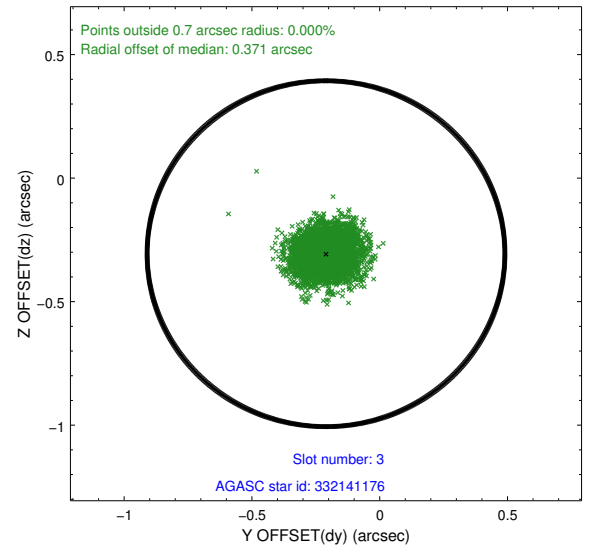
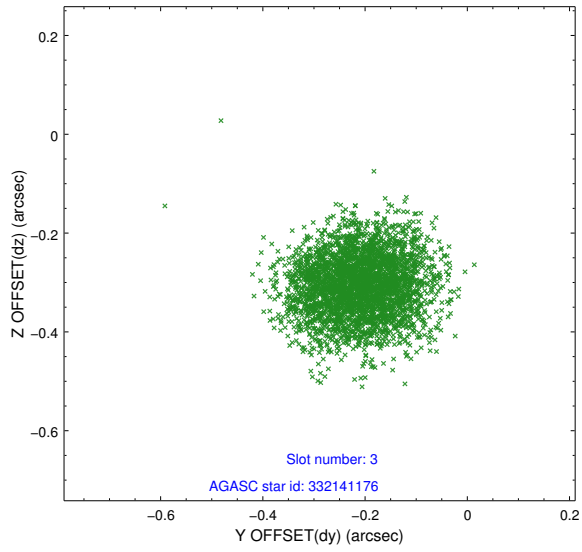


Slot Statistics

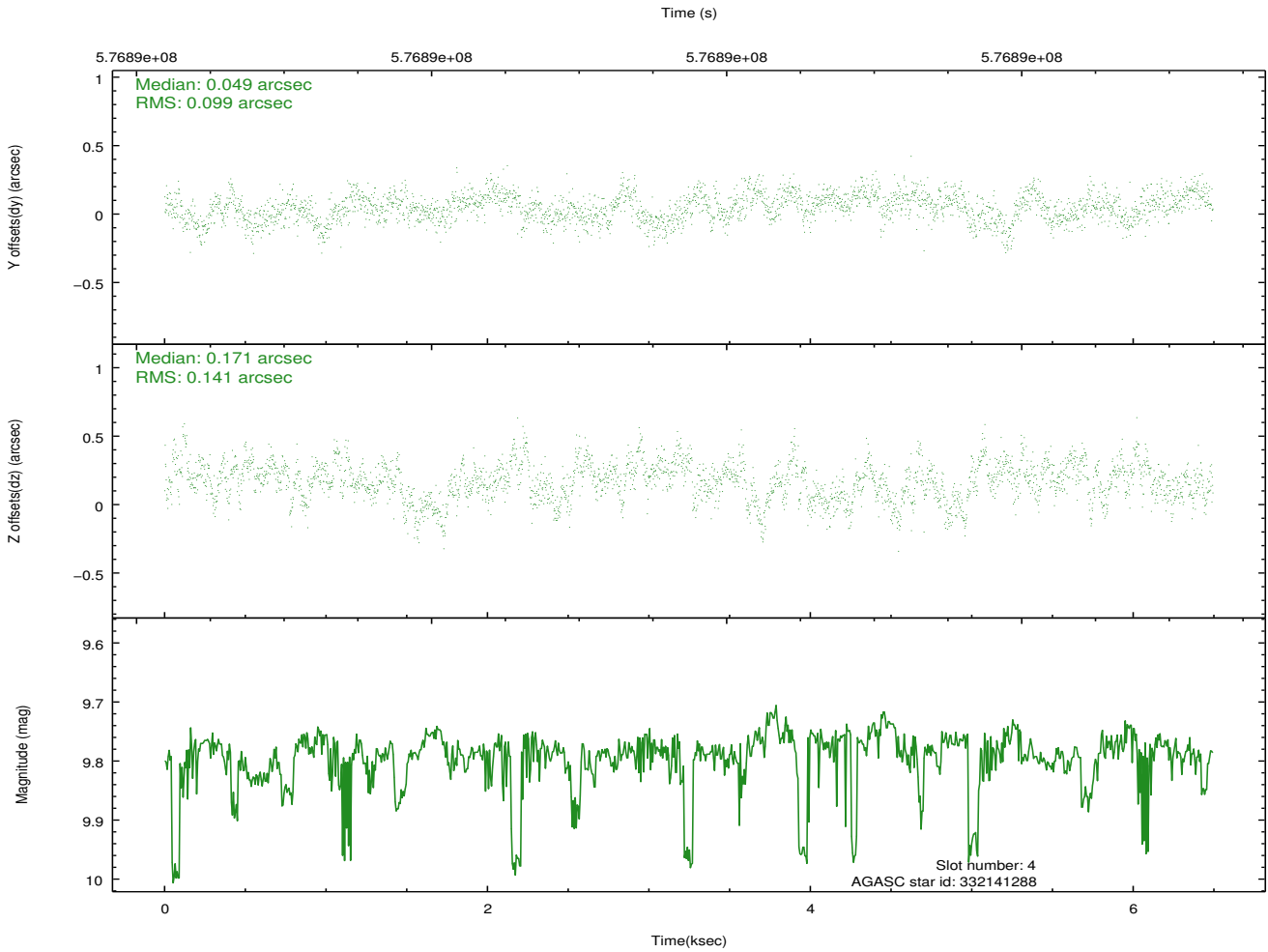
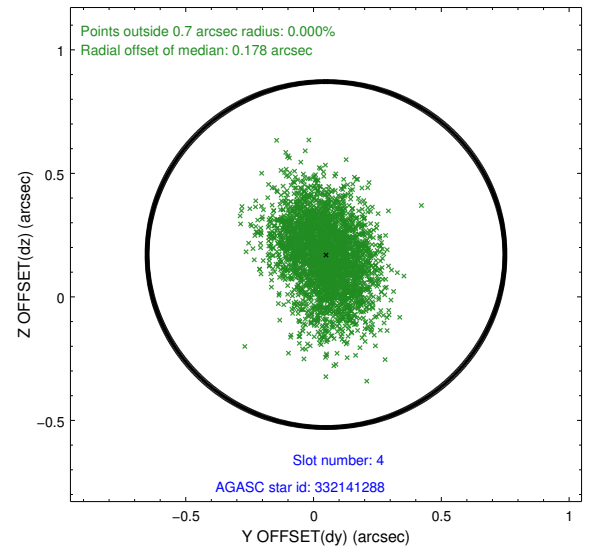
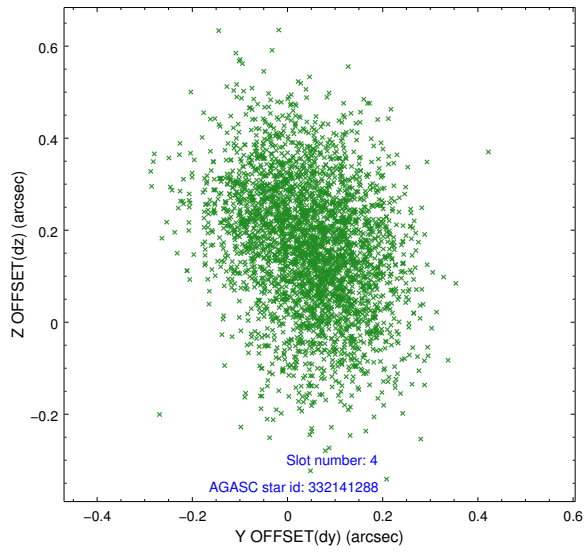
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.11	1584	-0.199	-0.105	0.008	0.014	0.000000	0.000000	-769.89	-1741.78
1	FID		ACIS-S-4	7.22	1583	0.458	0.124	0.007	0.013	0.000000	0.000000	2143.59	166.04
2	FID		ACIS-S-5	7.23	1584	-0.290	-0.010	0.010	0.019	0.000000	0.000000	-1821.71	160.54
3	GUIDE	used	332141176	8.81	3164	-0.210	-0.306	0.100	0.158	194.460299	36.730187	2209.75	2084.84
4	GUIDE	used	332141288	9.79	3162	0.049	0.171	0.181	0.306	195.365114	36.897212	-414.44	1560.68
5	GUIDE	used	332147424	9.63	3162	0.295	0.460	0.186	0.302	195.275610	37.396069	-202.39	-240.85
6	GUIDE	used	332137704	9.42	3161	-0.124	-0.319	0.202	0.364	195.331497	36.680550	-298.00	2338.04
7	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00

2.4 Star Slots

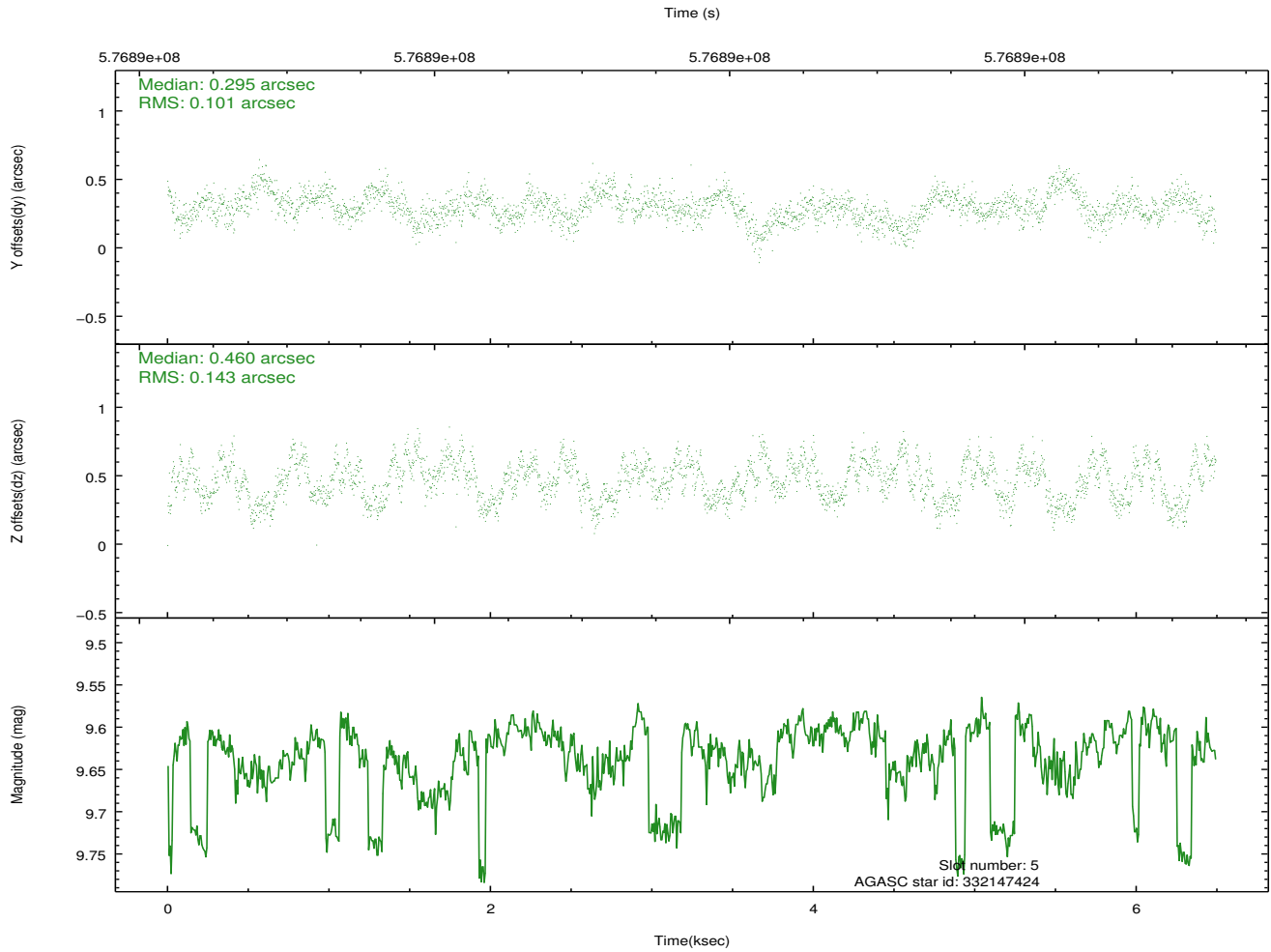
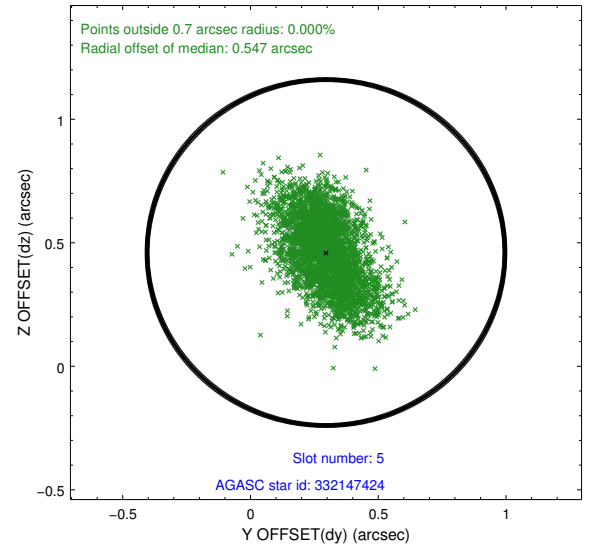
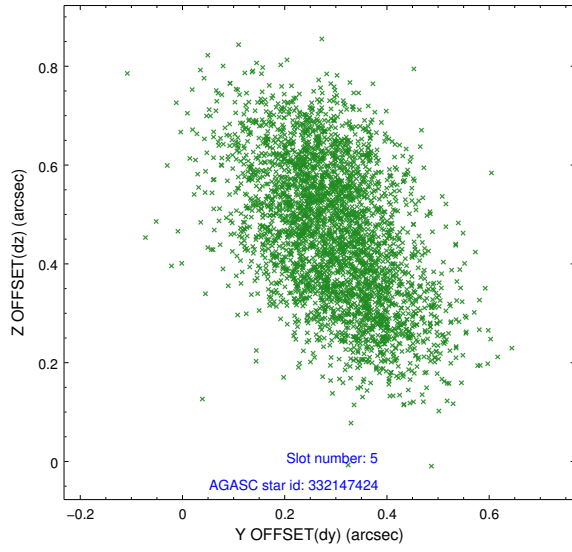
2.4.1 Slot 3



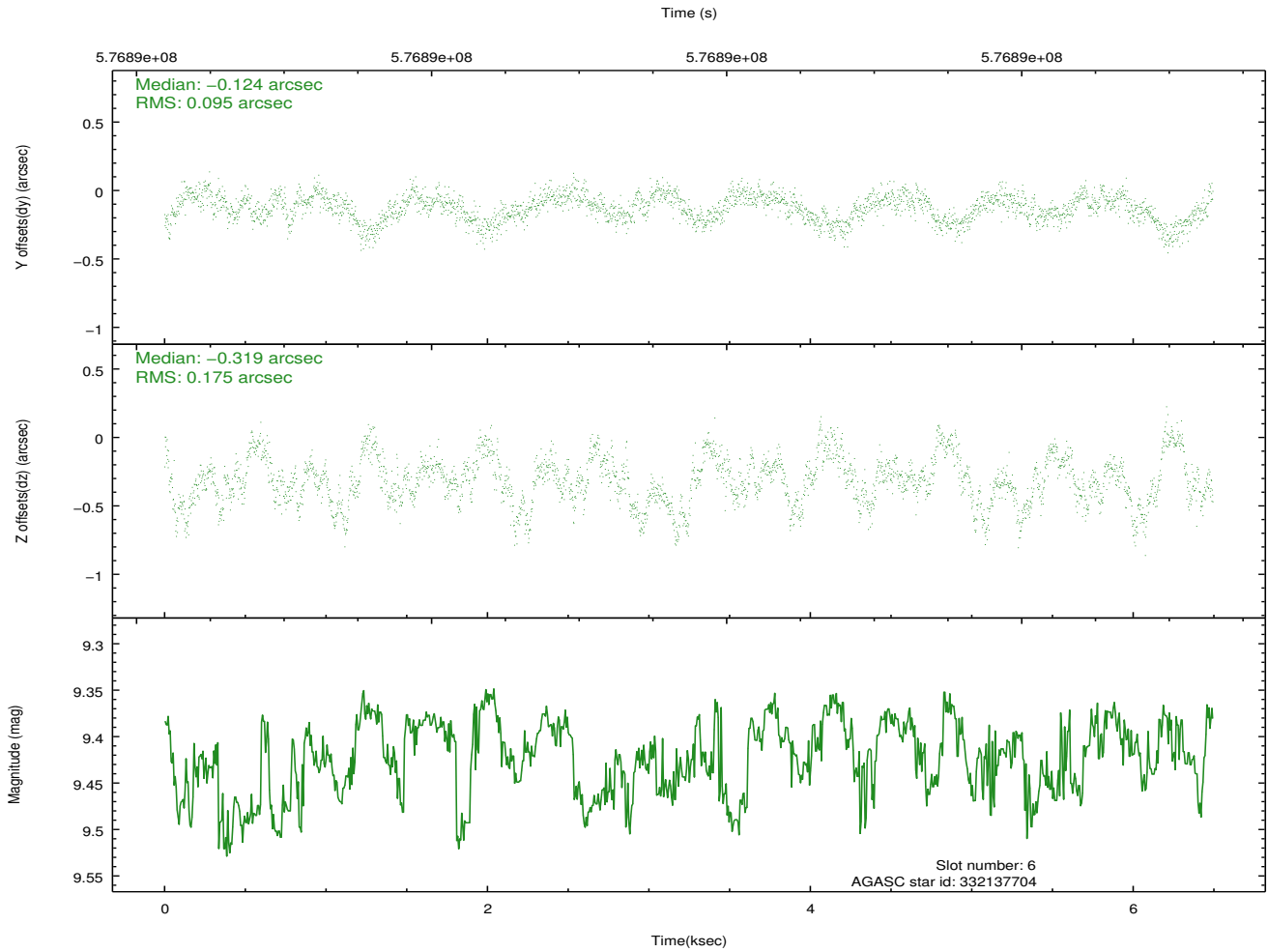
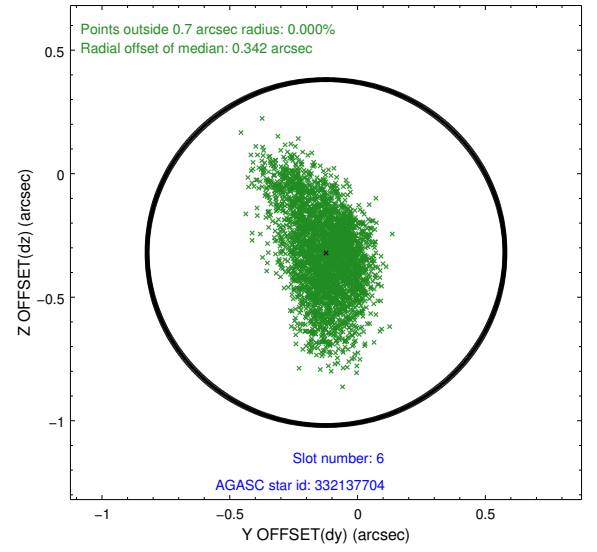
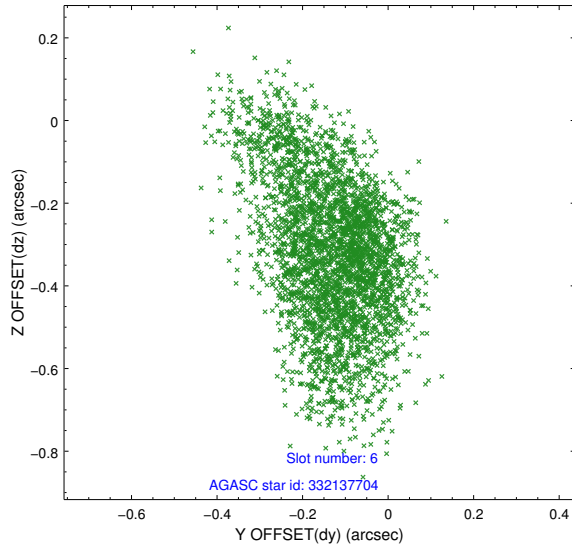
2.4.2 Slot 4



2.4.3 Slot 5

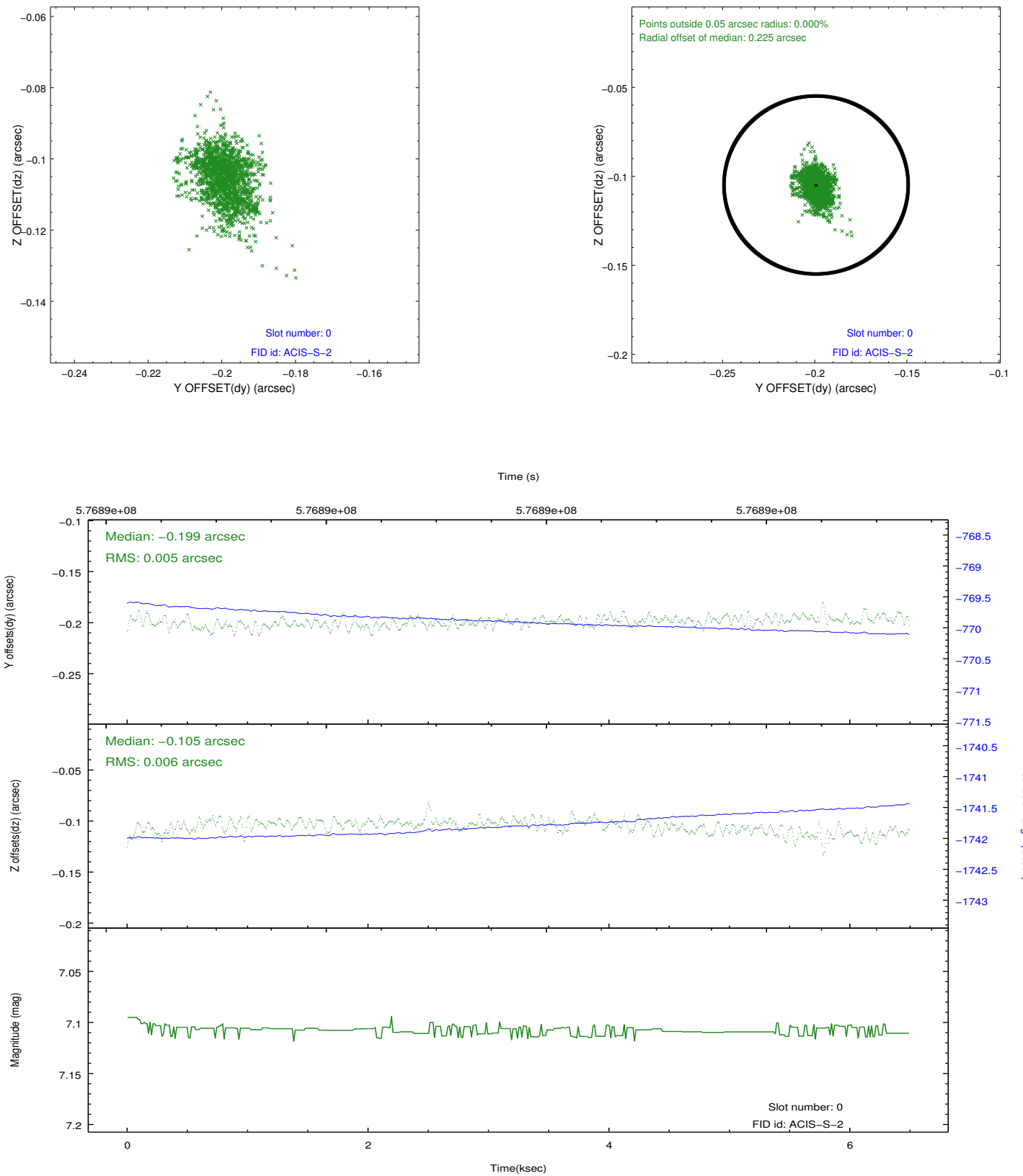


2.4.4 Slot 6

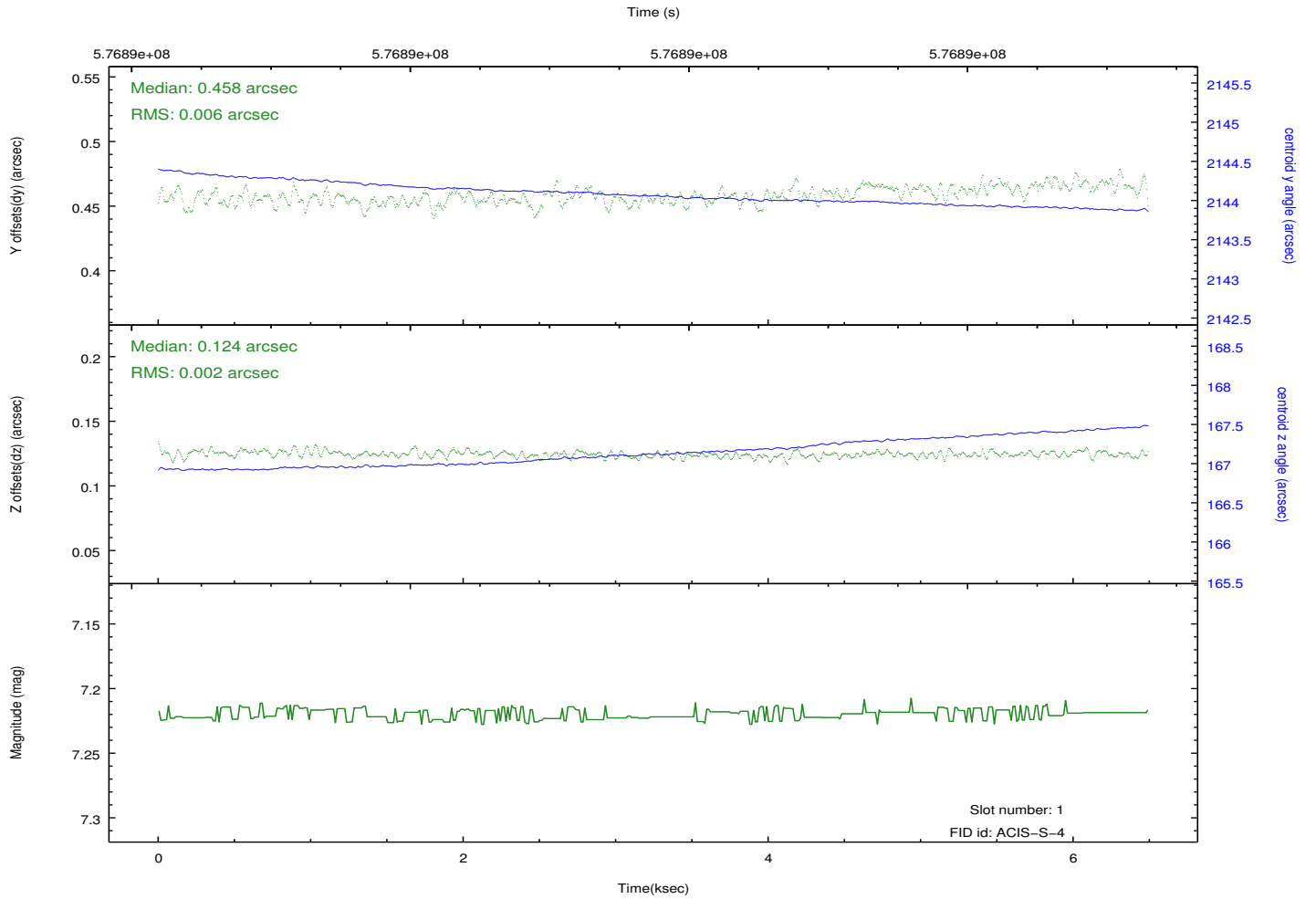
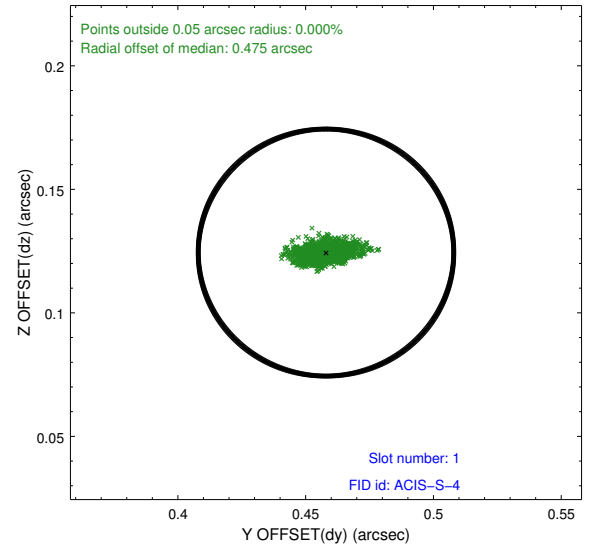
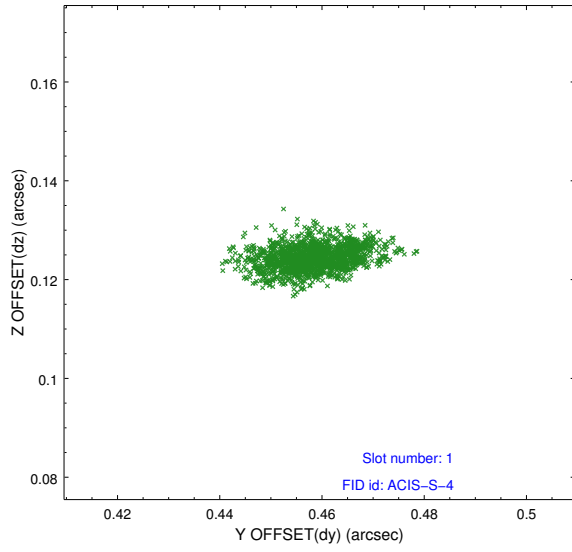


2.5 FID Slots

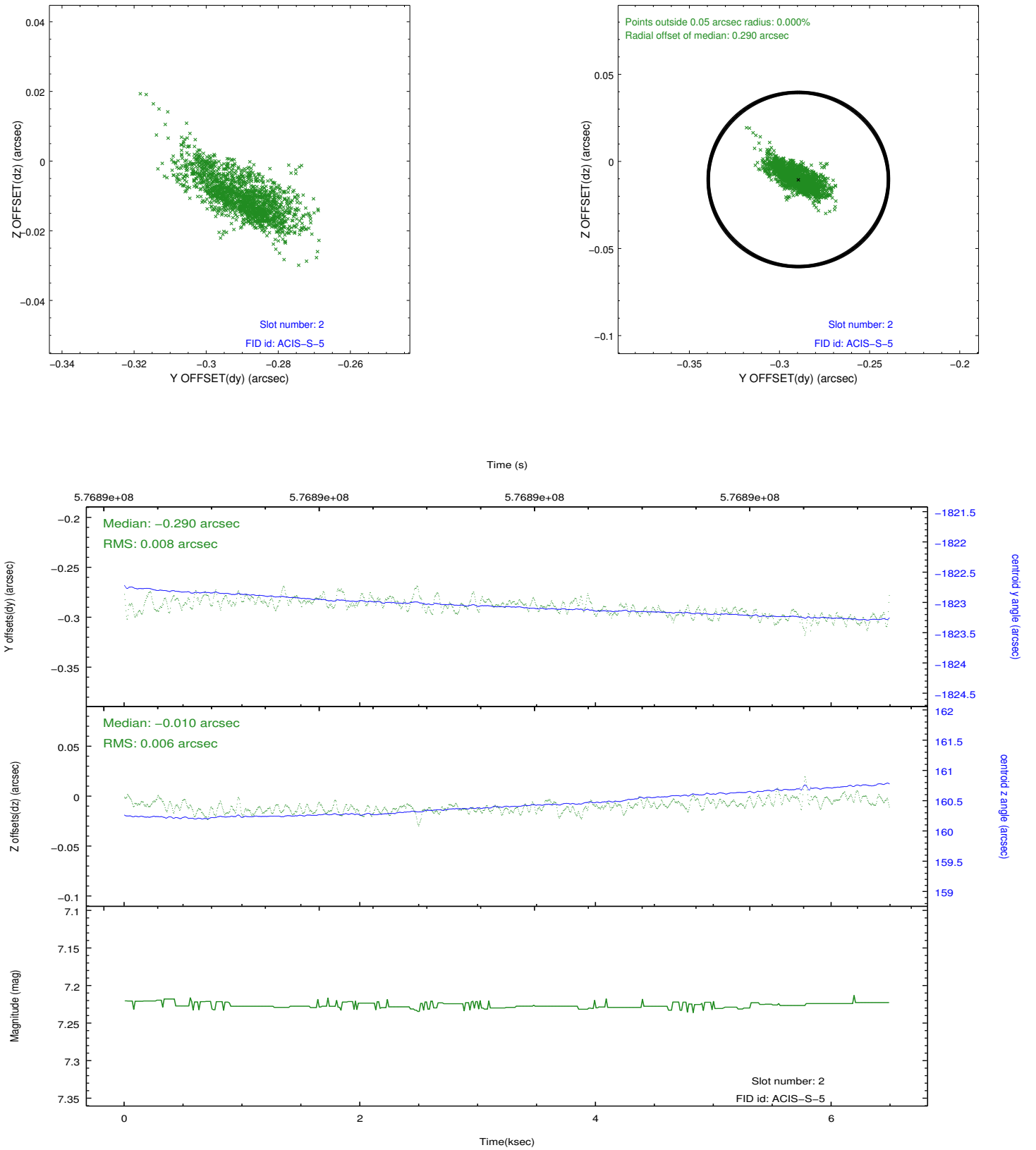
2.5.1 Slot 0



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)	2016.04.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.3488000489473

A.2 Comments

The guide star in slot 7 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.