

V&V Reference Report

L2 ASCDS Version : 10.3.3

Observation 17654 - L2 Version 1
Chandra X-Ray Center

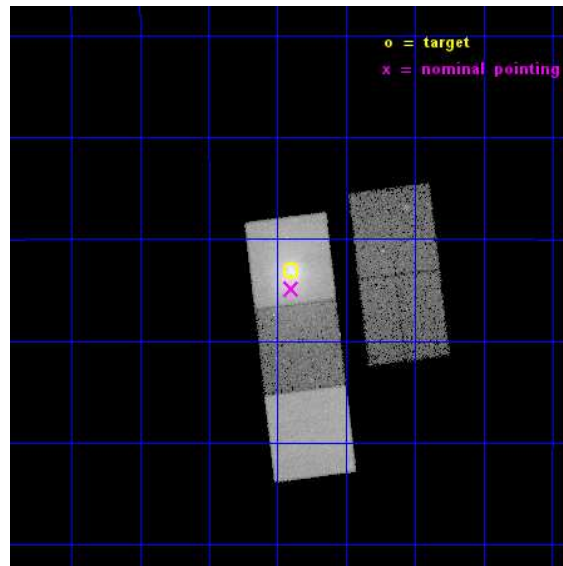
L2 Processing Date : May 10 2015

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1 Front

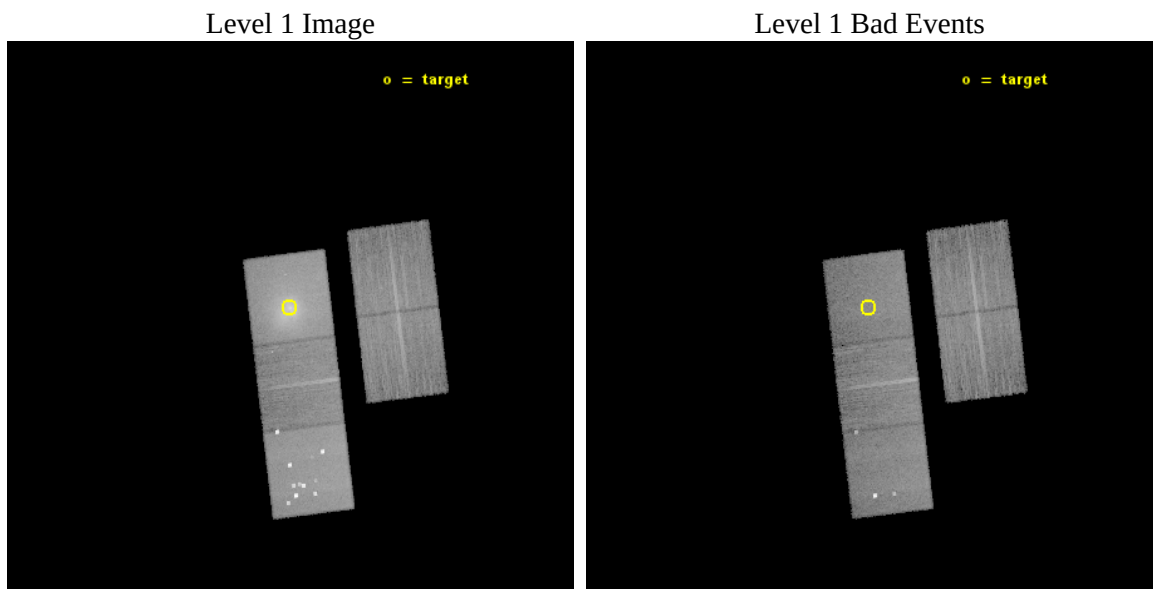
seq_num	801478	Sequence number
obs_id	17654	Observation id
title	The Highly Perturbed X-ray Bright Group NGC 5044	Proposal title
observer	Dr. Laurence David	Principal investigator
object	NGC 5044	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	198.85	Observer's specified target RA [deg]
dec_targ	-16.385278	Observer's specified target Dec [deg]
ra_nom	198.8497363536	Nominal RA [deg]
dec_nom	-16.414713455409	Nominal Dec [deg]
roll_nom	262.9565420961	Nominal Roll [deg]
revision	1	Processing version of data
ontime	25373.500195265	Sum of GTIs [s]
livetime	25041.976735515	Livetime [s]
ontime2	25373.500195265	Sum of GTIs [s]
ontime3	25373.500195265	Sum of GTIs [s]
ontime5	25373.500195265	Sum of GTIs [s]
ontime6	25373.500195265	Sum of GTIs [s]
ontime7	25373.500195265	Sum of GTIs [s]
l2events	296379	Number of level 2 events



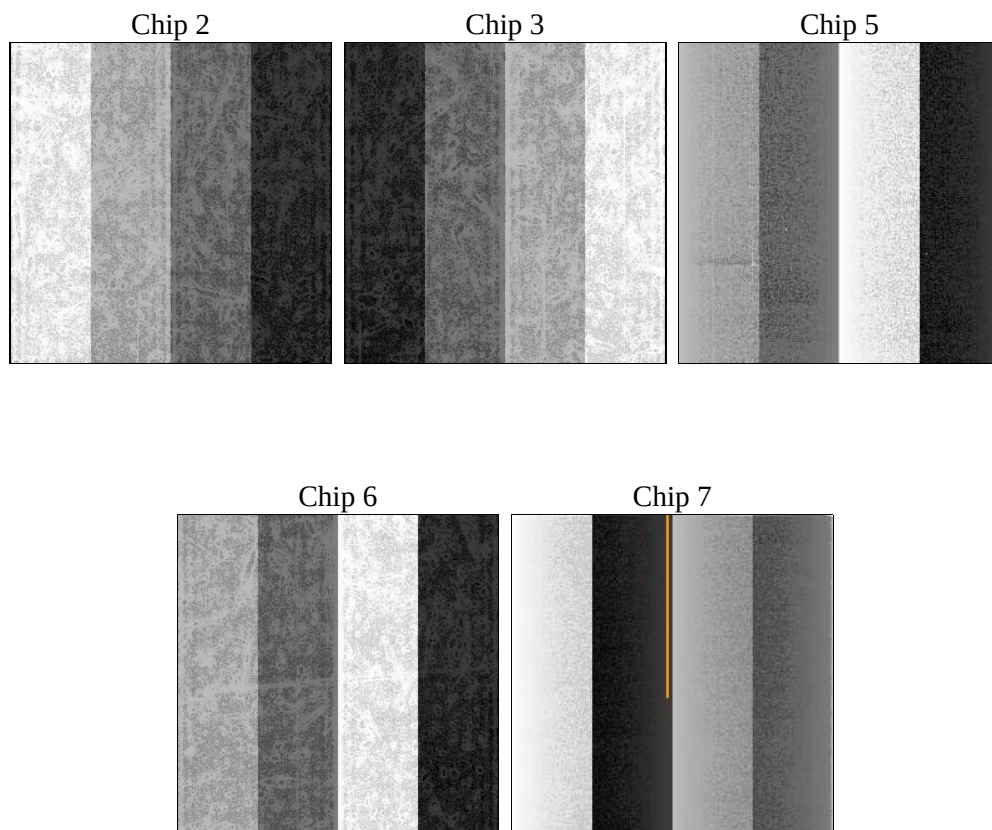
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25337.121000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	25373.500195265	Sum of GTIs [s]
caldsver	4.6.7	 	ontime2	25373.500195265	Sum of GTIs [s]
date	2015-05-11T02:42:00	Date and time of file creation	ontime3	25373.500195265	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	25373.500195265	Sum of GTIs [s]
			ontime6	25373.500195265	Sum of GTIs [s]
			ontime7	25373.500195265	Sum of GTIs [s]
			l1events	864027	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	117749	115450	246934	125158	258736
rejected events	103120	100611	112795	103269	94393
rejected %	87%	87%	45%	82%	36%

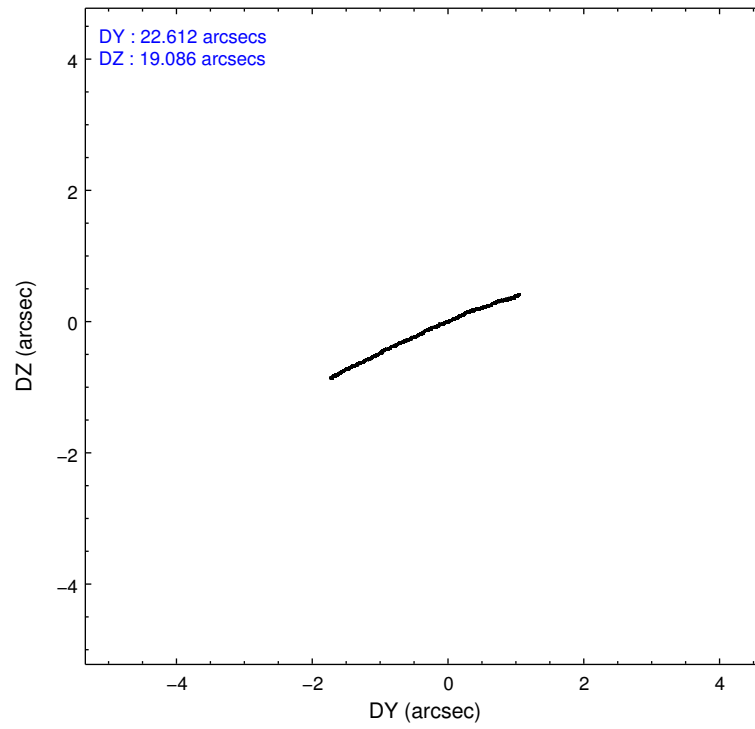
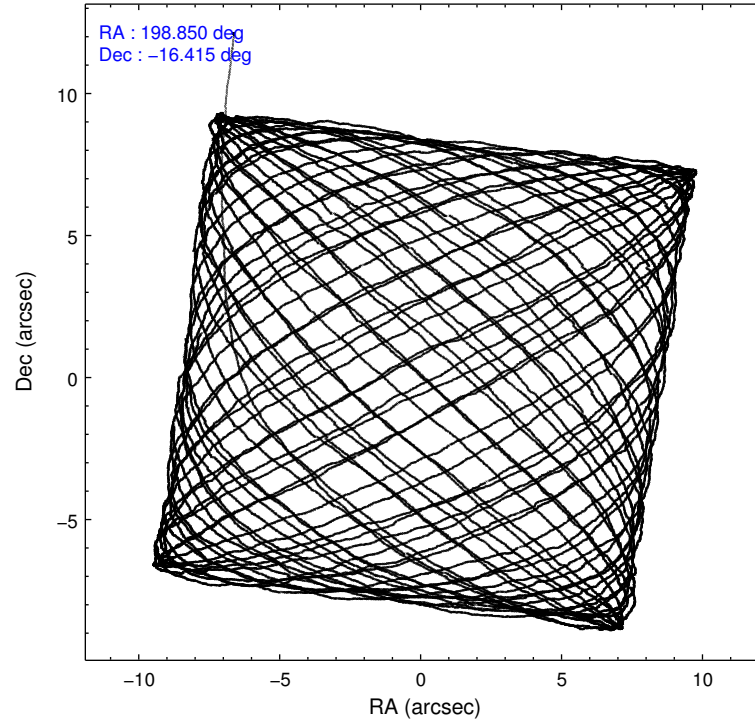
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	5883	6093	38121	11129	36499
	4%	5%	15%	8%	14%
grade 1 events	69	58	421	72	230
	0%	0%	0%	0%	0%
grade 2 events	3374	3052	33508	3951	40546
	2%	2%	13%	3%	15%
grade 3 events	1333	1442	5166	1587	16738
	1%	1%	2%	1%	6%
grade 4 events	1393	1462	3113	1557	16495
	1%	1%	1%	1%	6%
grade 5 events	5061	6126	15062	6162	16706
	4%	5%	6%	4%	6%
grade 6 events	2646	2793	54271	3670	54106
	2%	2%	21%	2%	20%
grade 7 events	97990	94424	97272	97030	77416
	83%	81%	39%	77%	29%

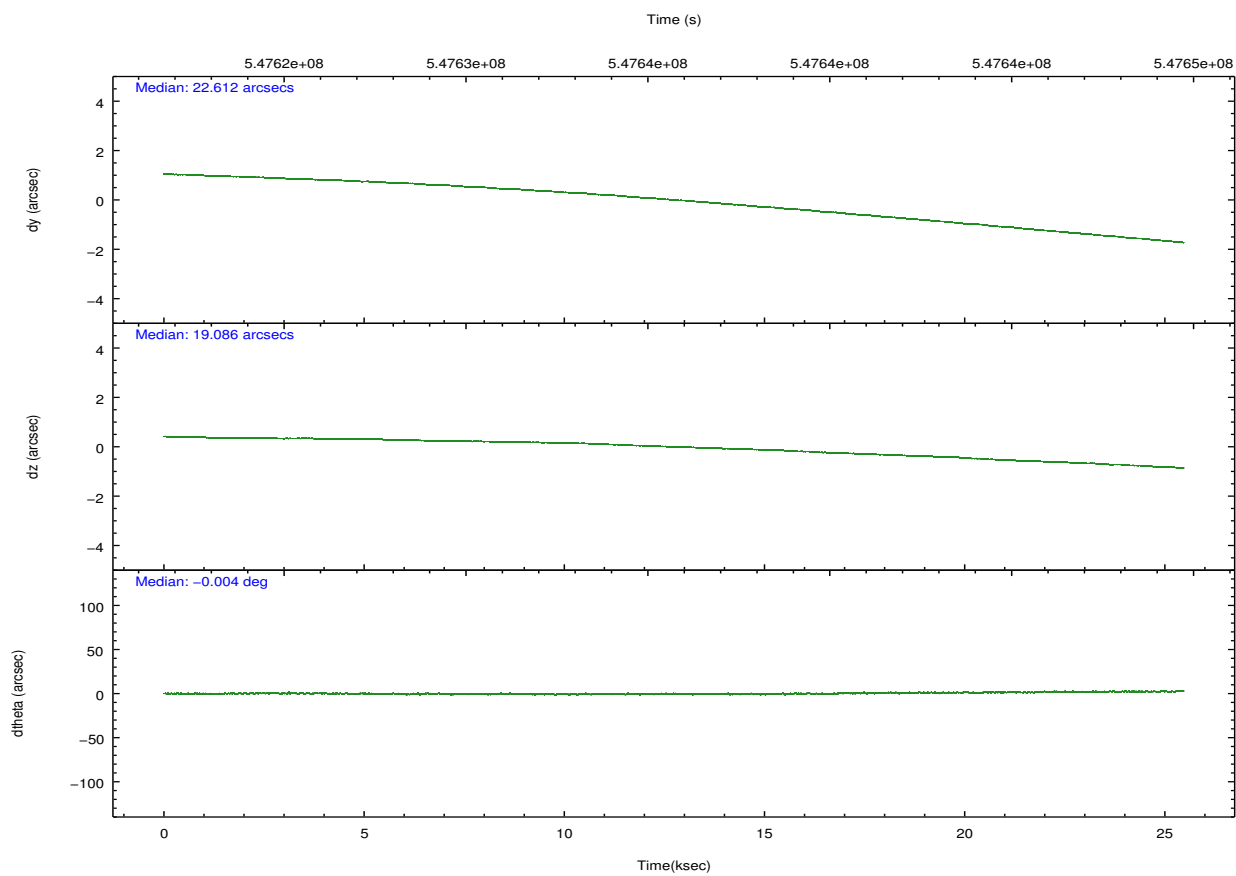
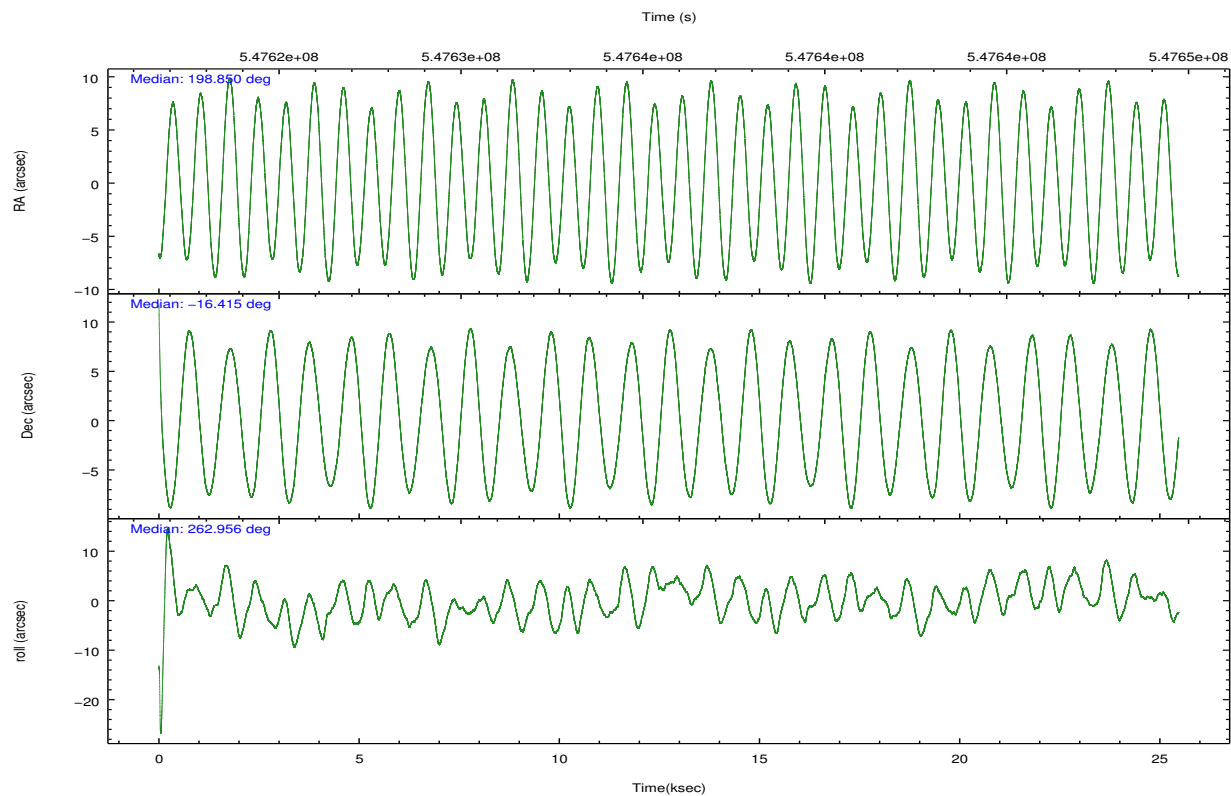
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-23567	ACIS-23567
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	198.838229	198.8497363536043
[deg] Pointing Dec	-16.389559	-16.41471345540902
[deg] Pointing Roll	262.796680	262.9565420960955
[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)	547623109.184000	547621463.78888
Observation start date	2015-05-10T05:30:42	2015-05-10T05:04:23
[s] Observation end time (MET)	547648447.184000	547648673.9529001
Observation end date	2015-05-10T12:33:00	2015-05-10T12:37:53
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	Y
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	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



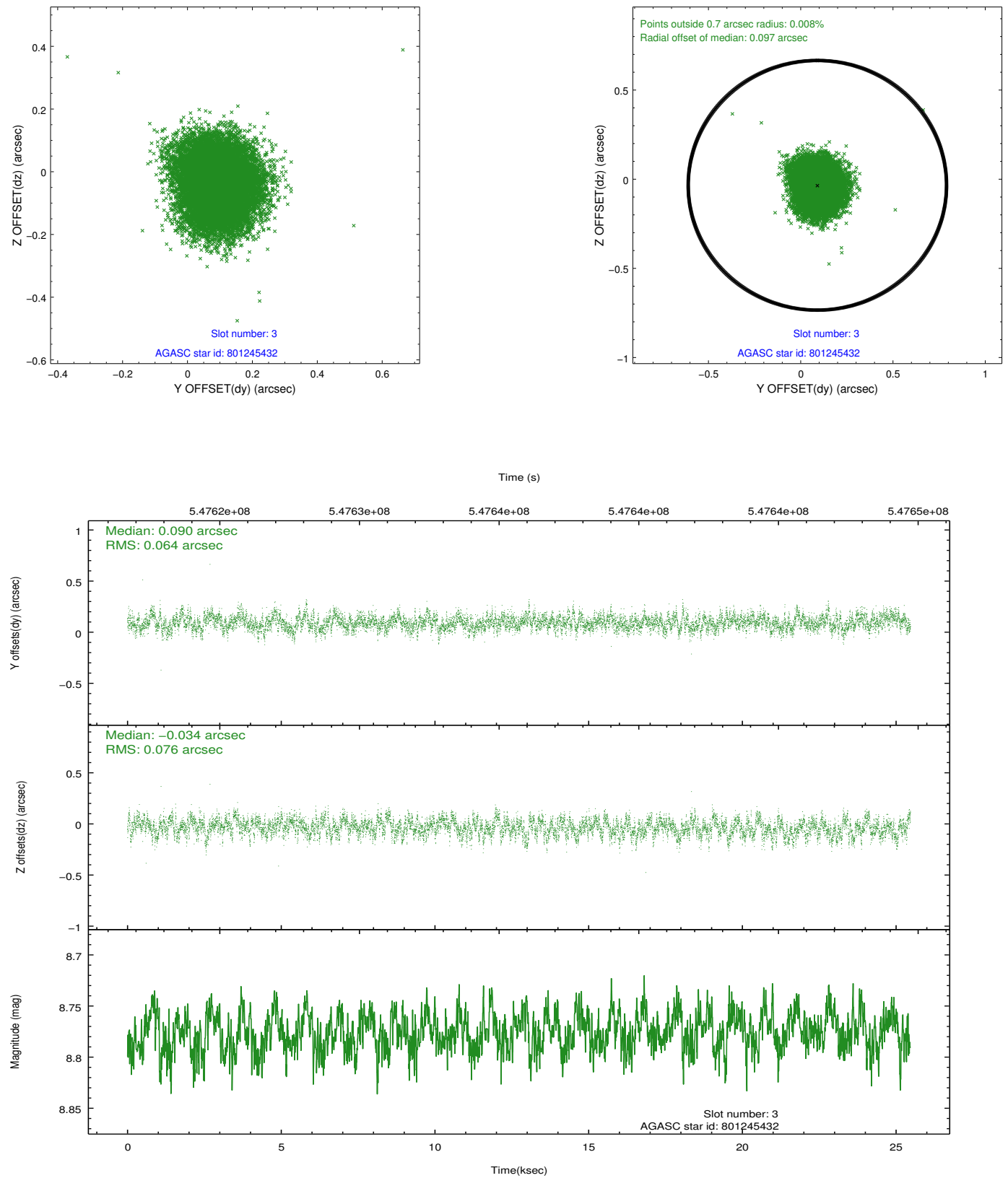


Slot Statistics

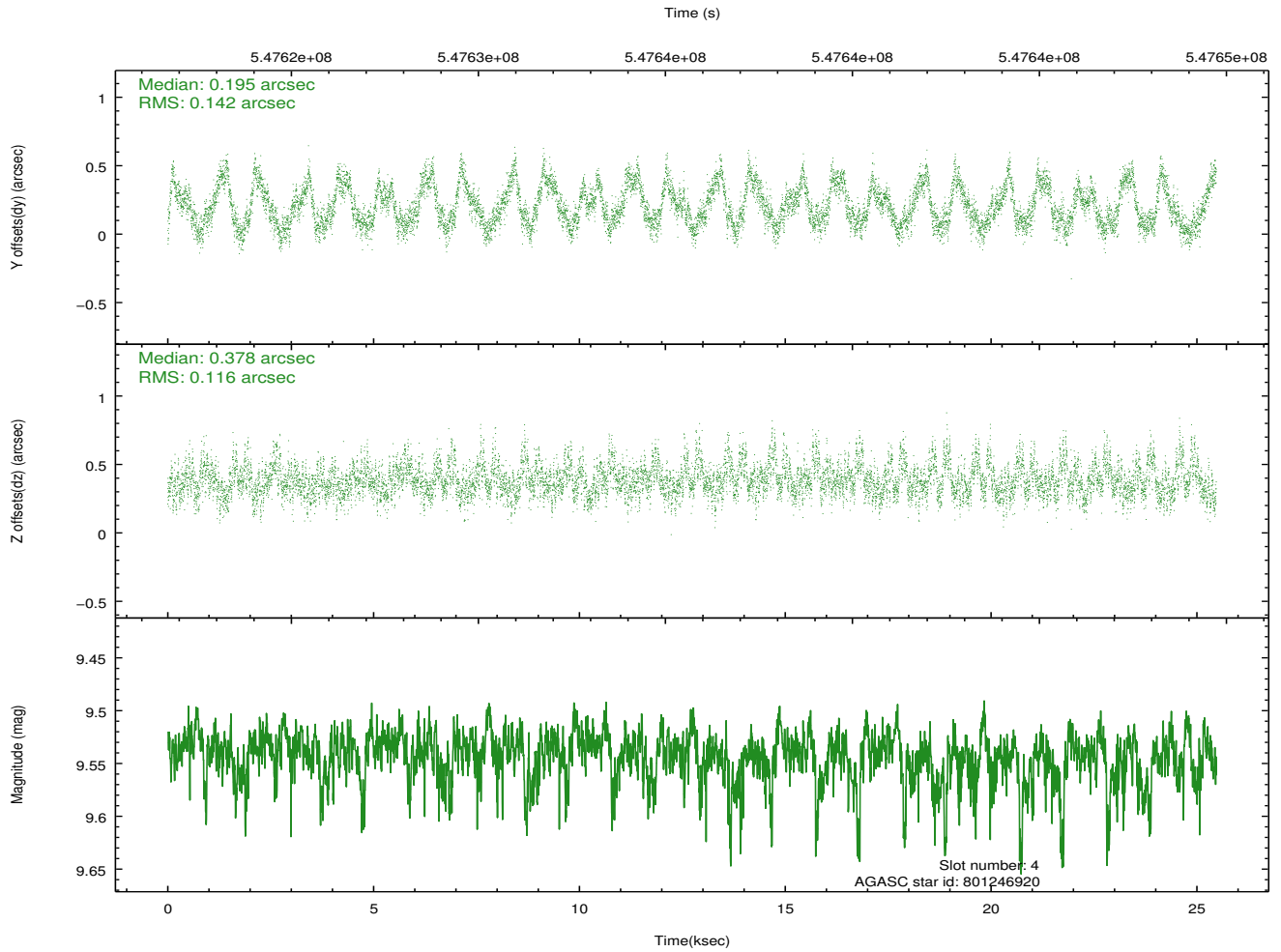
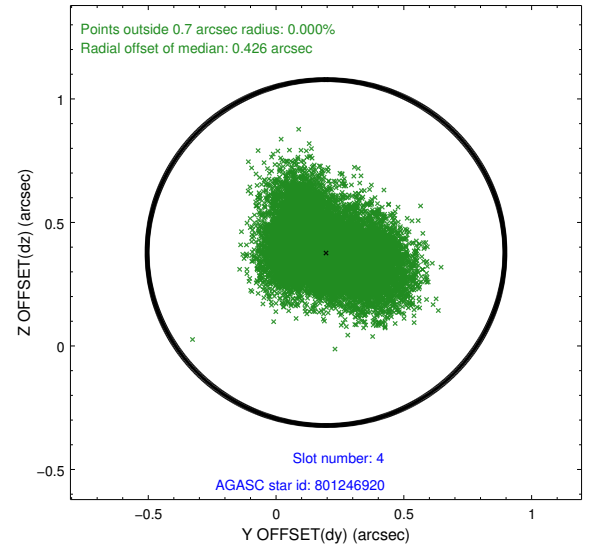
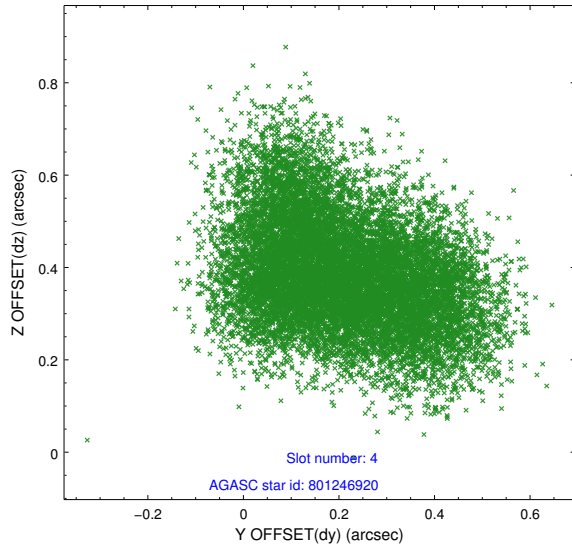
lot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-2	7.04	6213	-0.162	-0.092	0.018	0.034	0.000000	0.000000	-775.83	-1740.53
1	FID		ACIS-S-4	7.14	6213	0.393	0.104	0.033	0.051	0.000000	0.000000	2137.96	168.03
2	FID		ACIS-S-5	7.15	6213	-0.263	-0.003	0.024	0.031	0.000000	0.000000	-1828.62	161.72
3	GUIDE	used	801245432	8.78	12417	0.090	-0.034	0.106	0.169	198.949872	-16.275389	-455.15	330.55
4	GUIDE	used	801246920	9.54	12417	0.195	0.378	0.199	0.311	198.279277	-16.235725	-304.15	-1985.73
5	BAD	used	801251976	10.34	10867	-0.027	0.019	0.230	0.388	199.489404	-15.954989	-1830.84	2040.05
6	GUIDE	used	801252224	9.46	12413	-0.123	-0.142	0.145	0.238	198.949290	-17.046136	2297.22	676.04
7	GUIDE	used	801255952	9.35	12413	-0.154	-0.200	0.195	0.308	199.159726	-16.764729	1202.19	1269.08

2.4 Star Slots

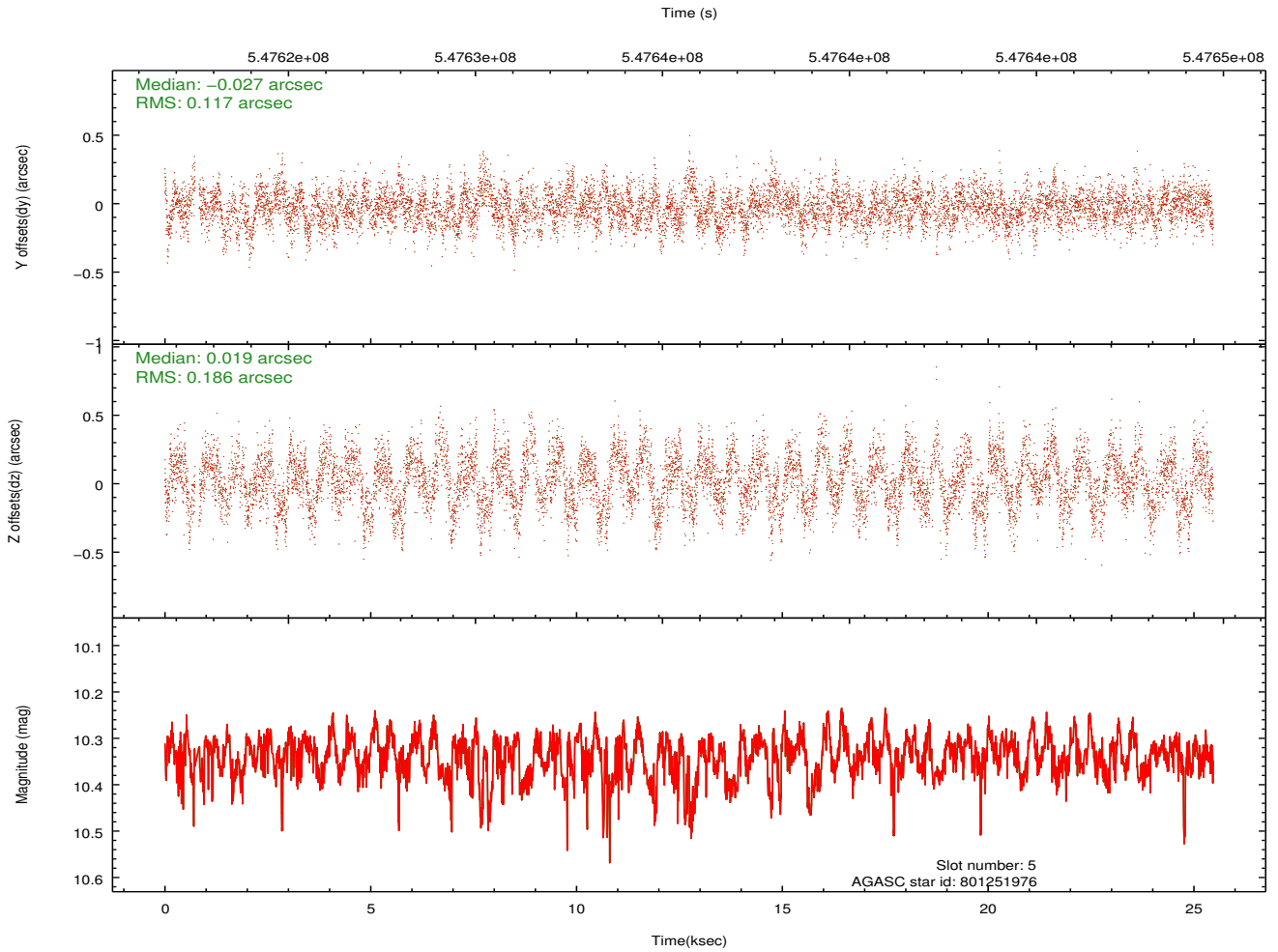
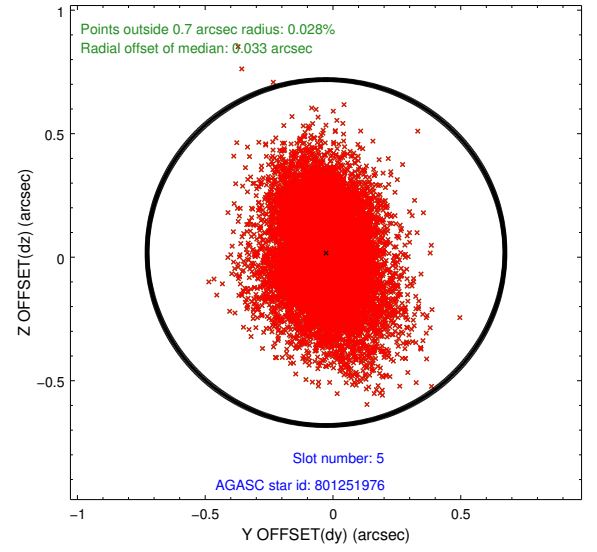
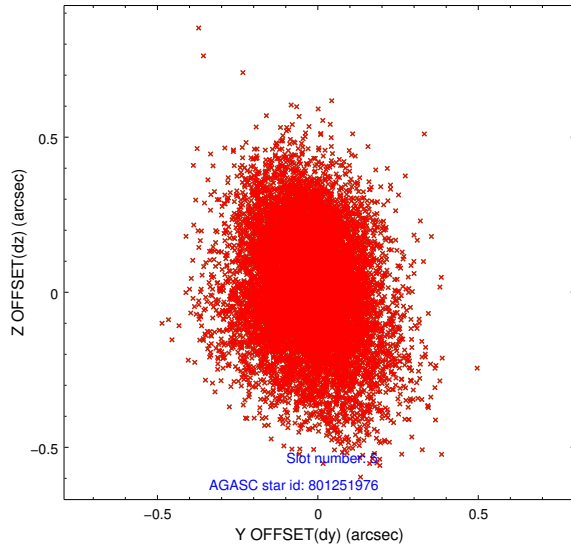
2.4.1 Slot 3



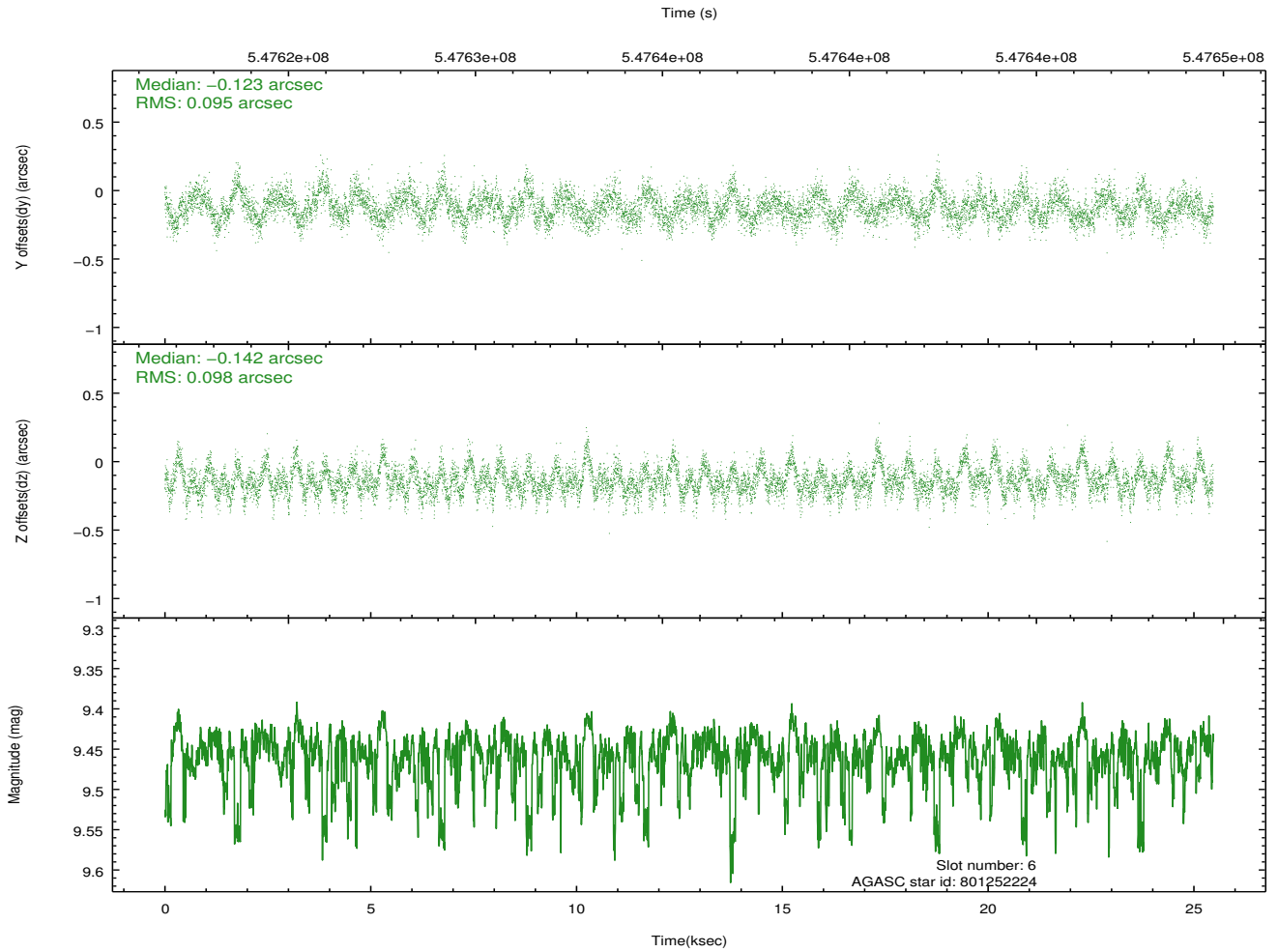
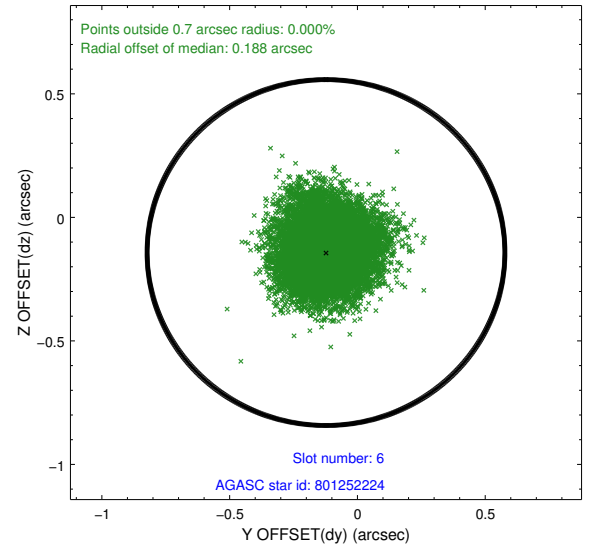
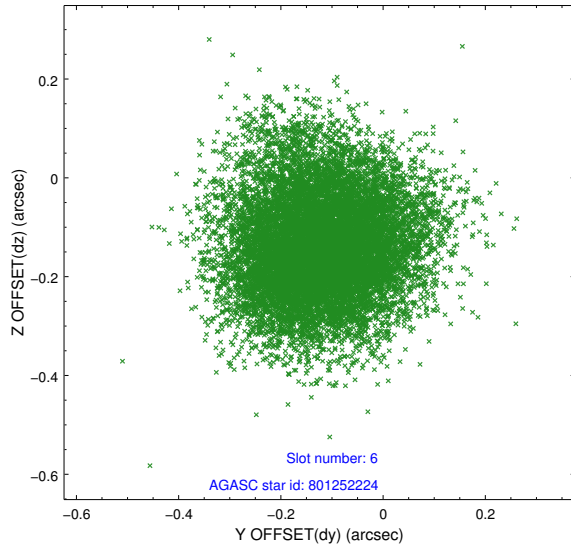
2.4.2 Slot 4



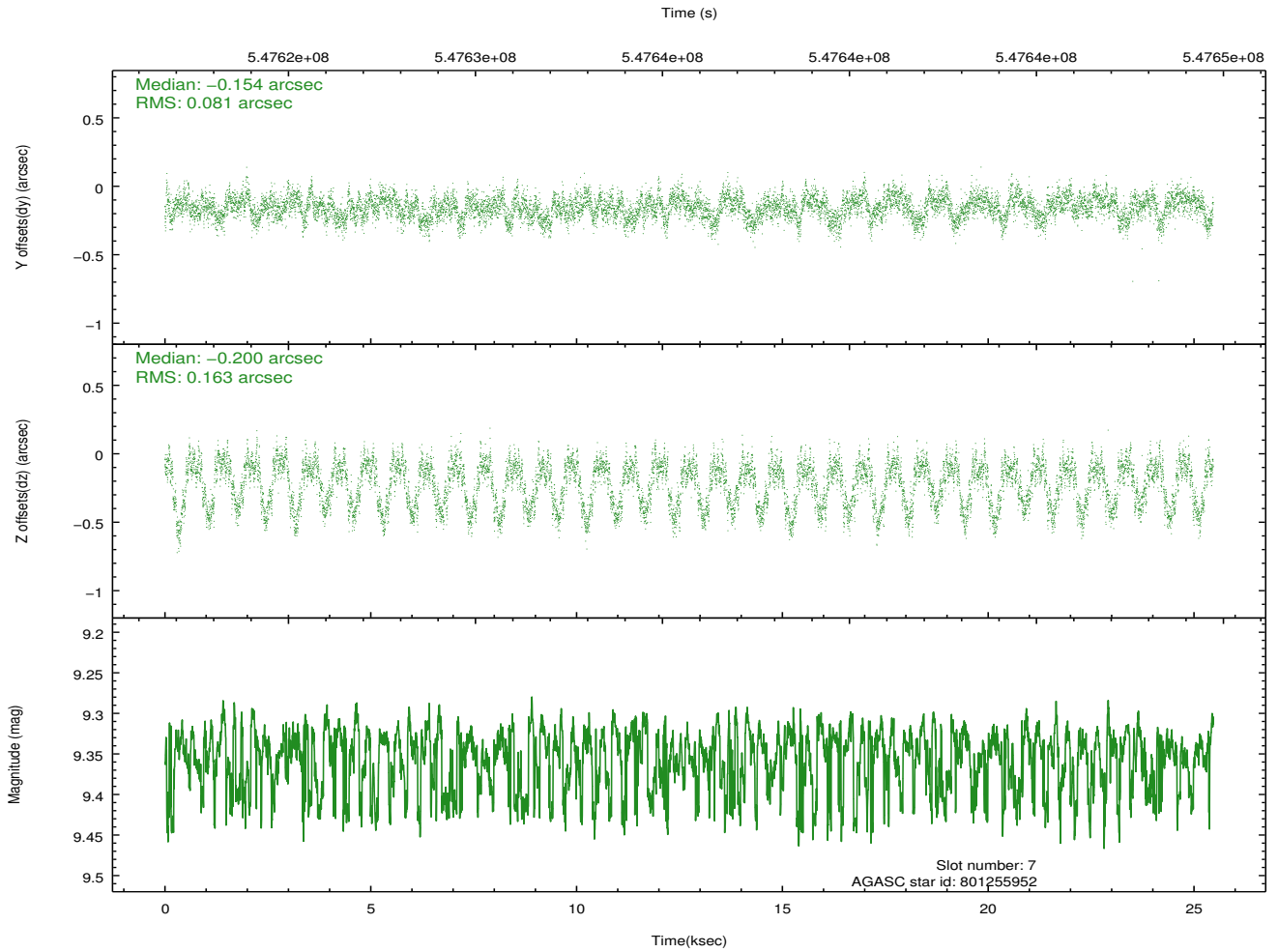
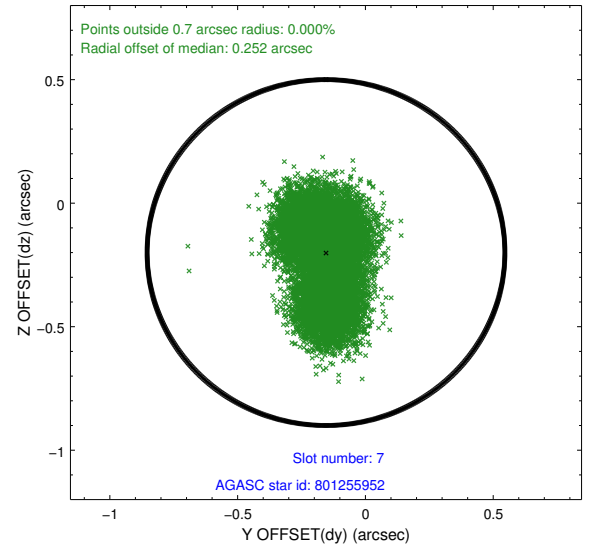
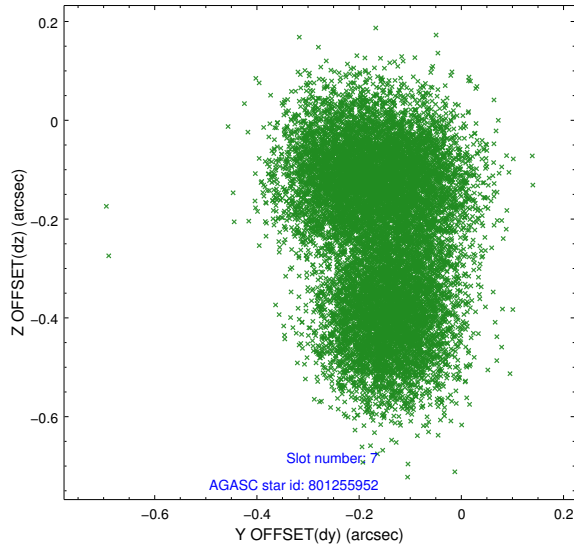
2.4.3 Slot 5



2.4.4 Slot 6

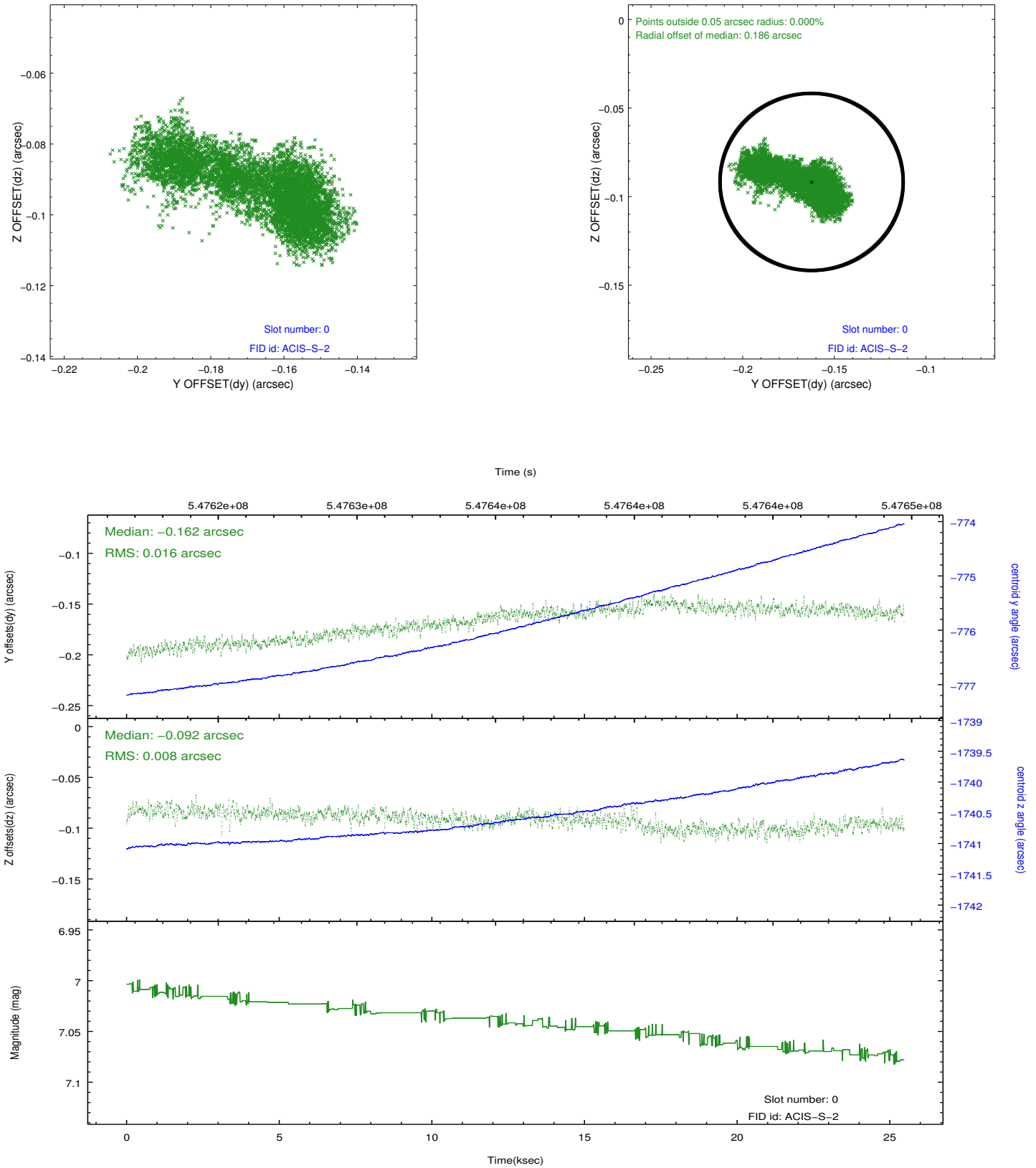


2.4.5 Slot 7

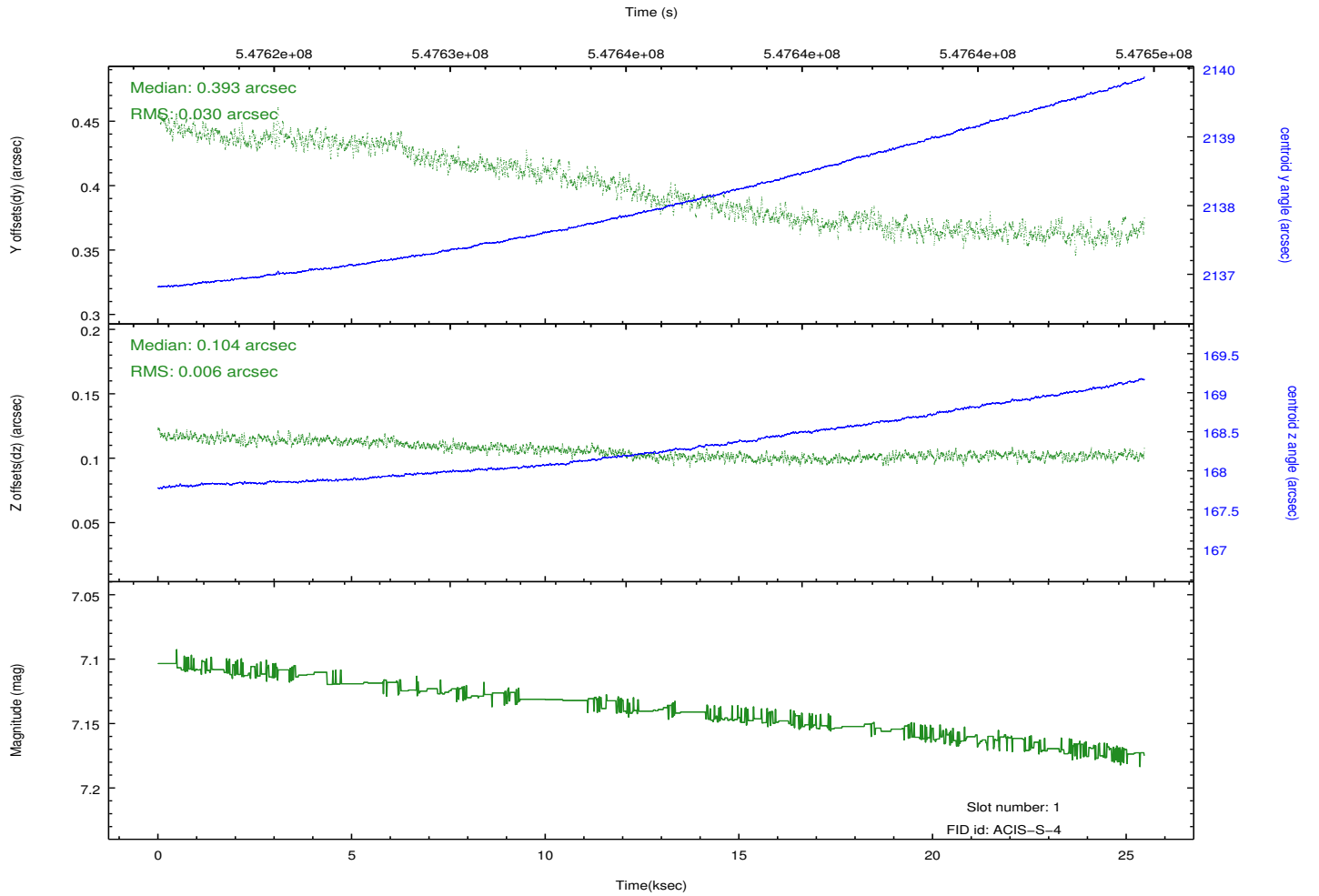
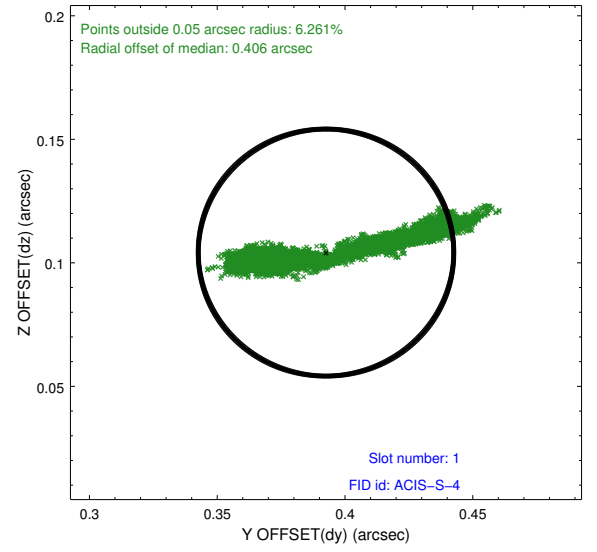
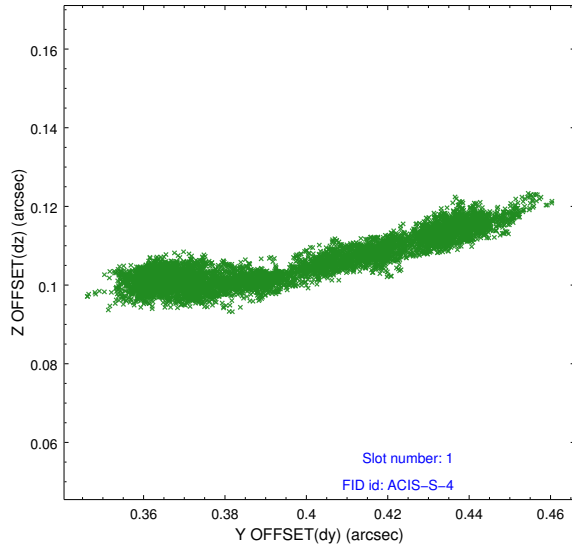


2.5 FID Slots

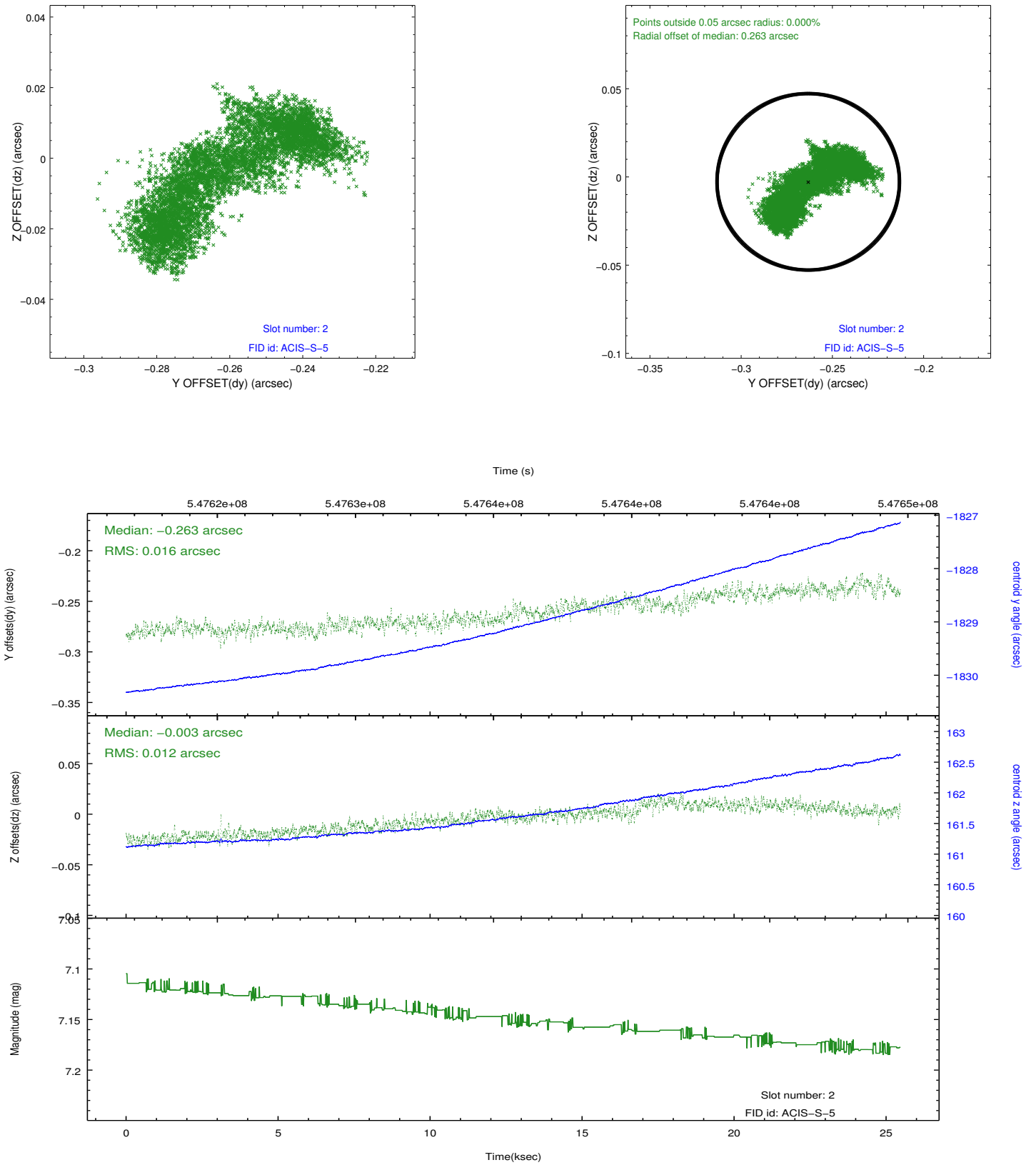
2.5.1 Slot 0



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)	2015.05.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.373500195265

A.2 Comments