

V&V Reference Report

L2 ASCDS Version : 10.3.3

Observation 17653 - L2 Version 1
Chandra X-Ray Center

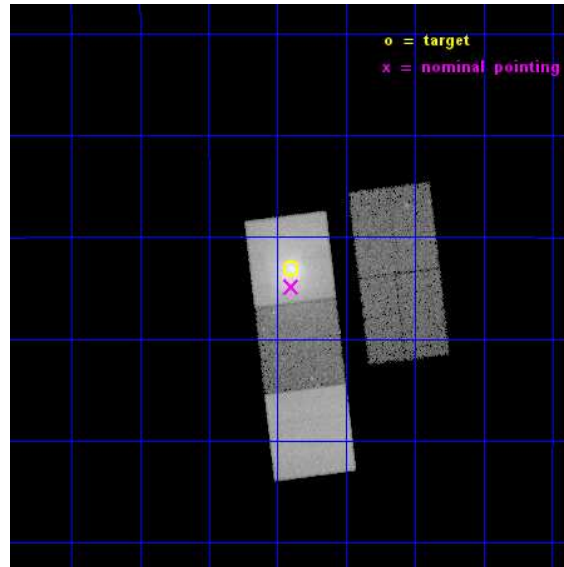
L2 Processing Date : May 8 2015

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1 Front

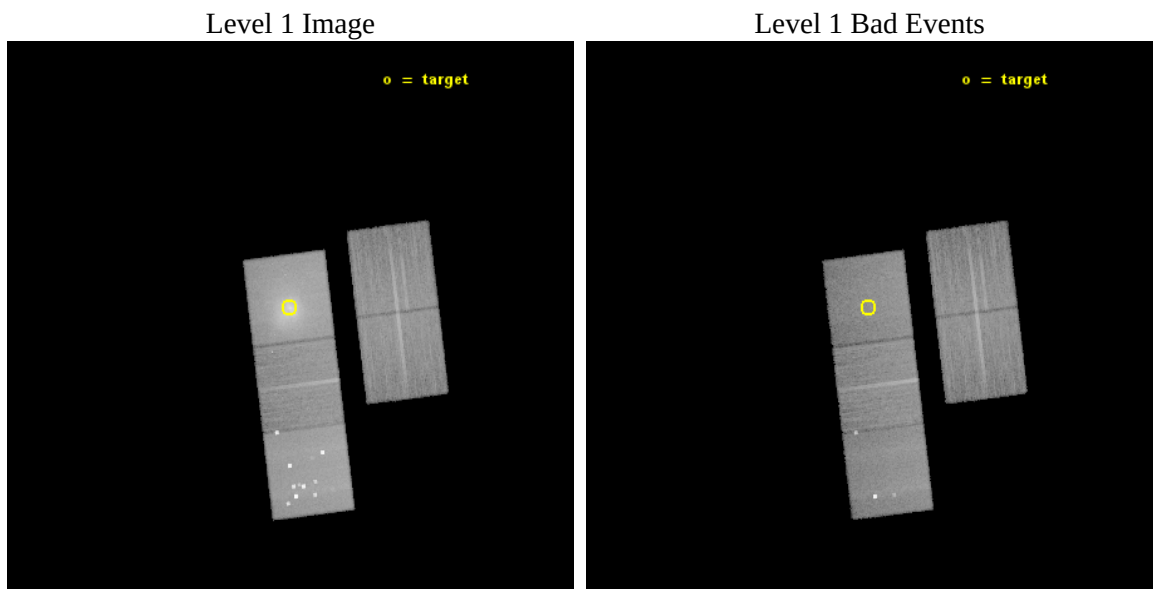
seq_num	801478	Sequence number
obs_id	17653	Observation id
title	The Highly Perturbed X-ray Bright Group NGC 5044	Proposal title
observer	Dr. Laurence David	Principal investigator
object	NGC 5044	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	198.85	Observer's specified target RA [deg]
dec_targ	-16.385278	Observer's specified target Dec [deg]
ra_nom	198.84973389613	Nominal RA [deg]
dec_nom	-16.414682010302	Nominal Dec [deg]
roll_nom	262.95656714758	Nominal Roll [deg]
revision	1	Processing version of data
ontime	36003.400277019	Sum of GTIs [s]
livetime	35532.989347082	Livetime [s]
ontime2	36003.400277019	Sum of GTIs [s]
ontime3	36000.259196758	Sum of GTIs [s]
ontime5	36003.400277019	Sum of GTIs [s]
ontime6	36003.400277019	Sum of GTIs [s]
ontime7	36003.400277019	Sum of GTIs [s]
l2events	409367	Number of level 2 events



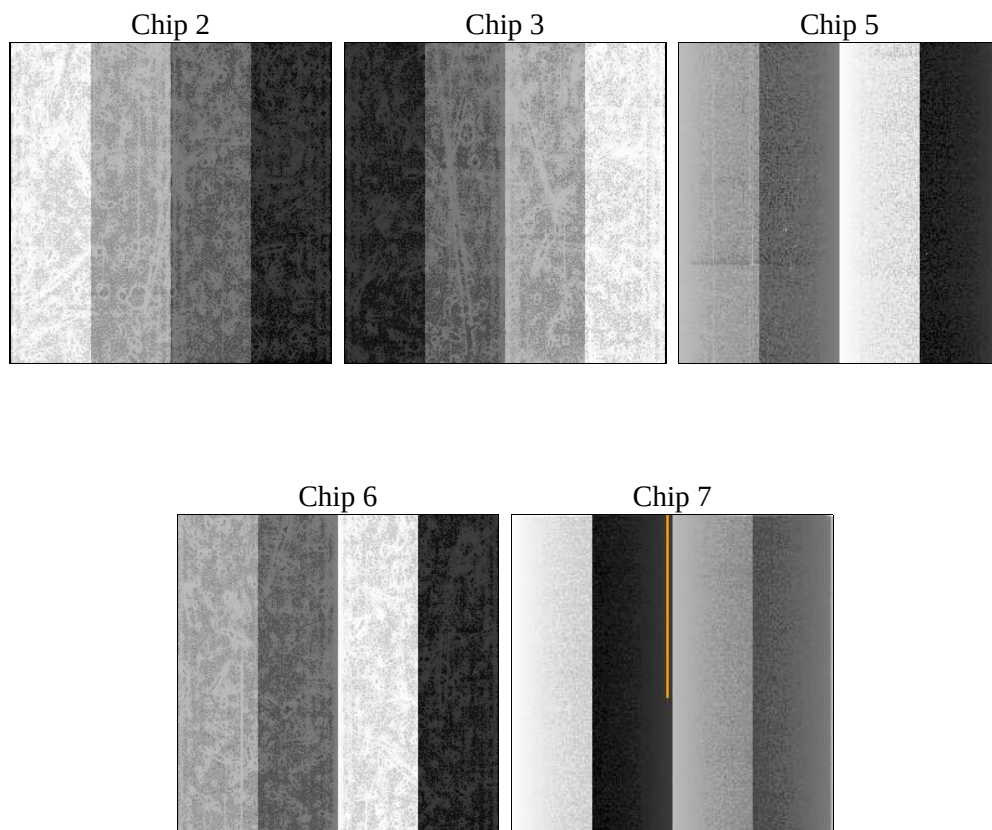
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	35941.230000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	36003.400277019	Sum of GTIs [s]
caldsver	4.6.7	 	ontime2	36003.400277019	Sum of GTIs [s]
date	2015-05-08T06:43:55	Date and time of file creation	ontime3	36000.259196758	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	36003.400277019	Sum of GTIs [s]
			ontime6	36003.400277019	Sum of GTIs [s]
			ontime7	36003.400277019	Sum of GTIs [s]
			l1events	1209134	Number of level 1 events

2.1.4 Events

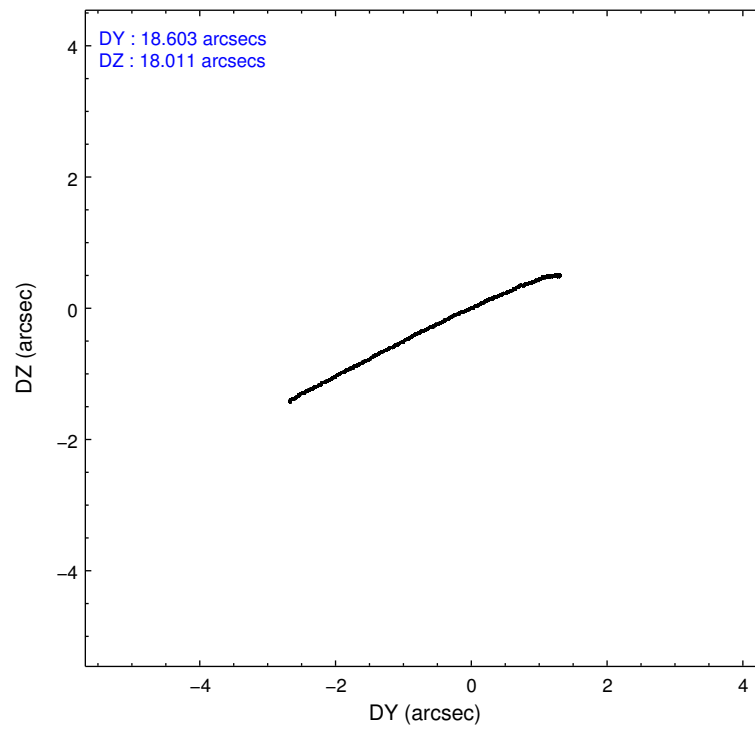
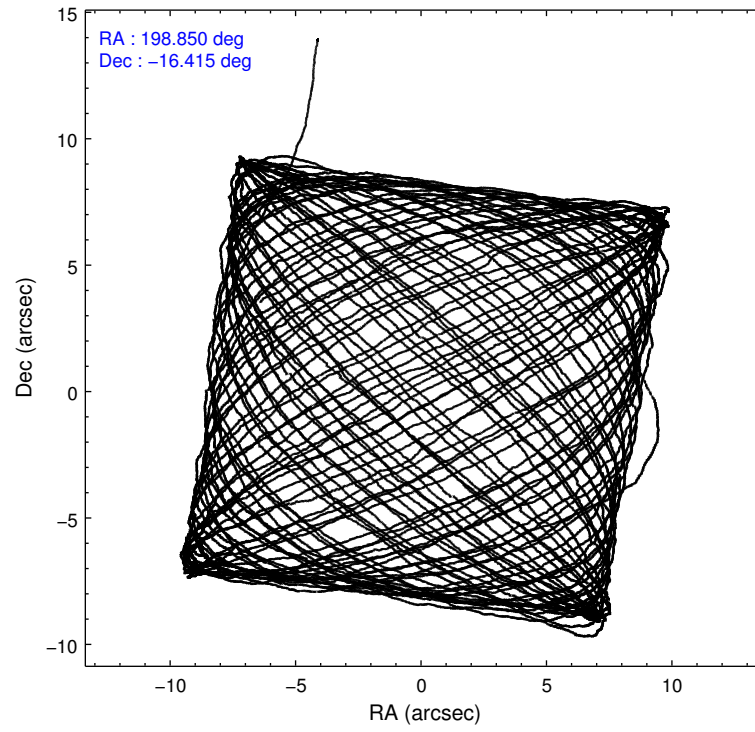
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	166558	162390	338490	181326	360370
rejected events	147124	142123	158645	151192	131807
rejected %	88%	87%	46%	83%	36%

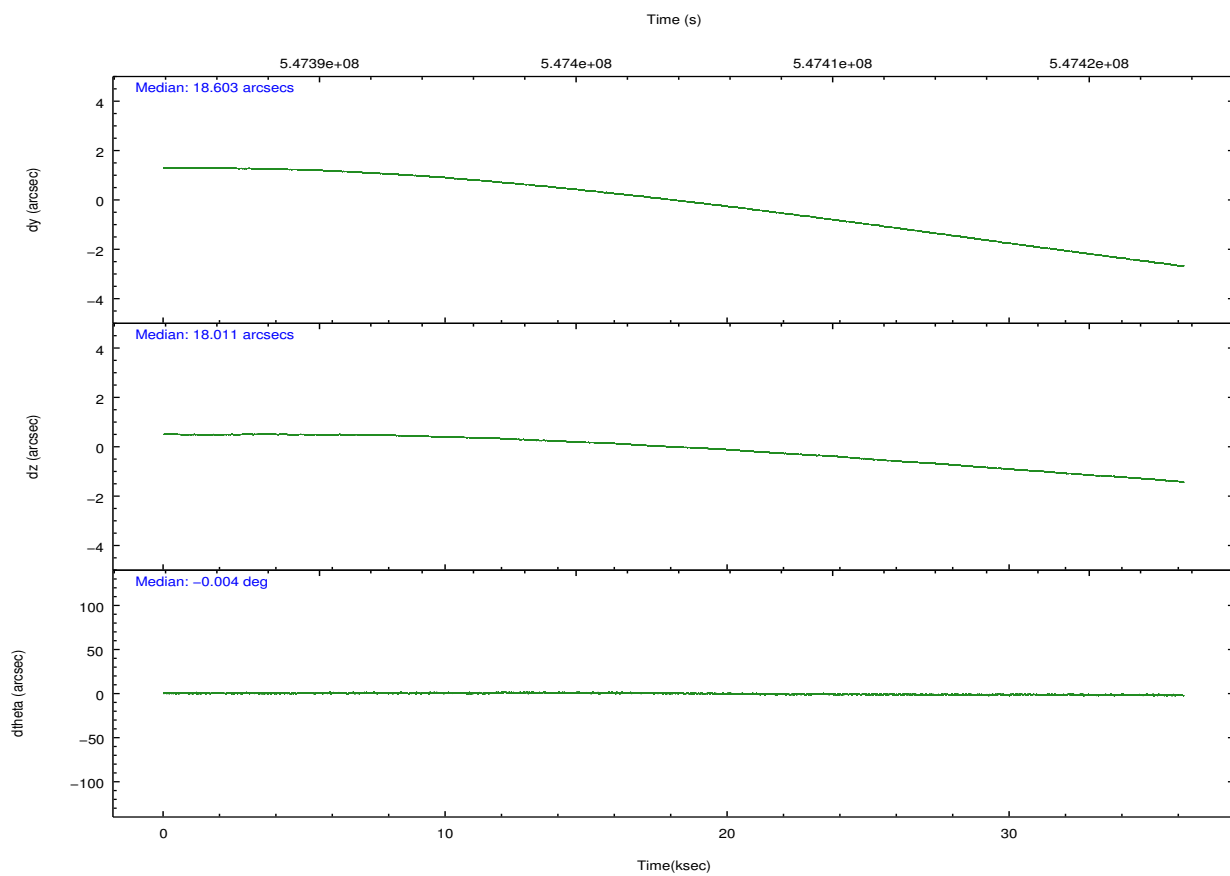
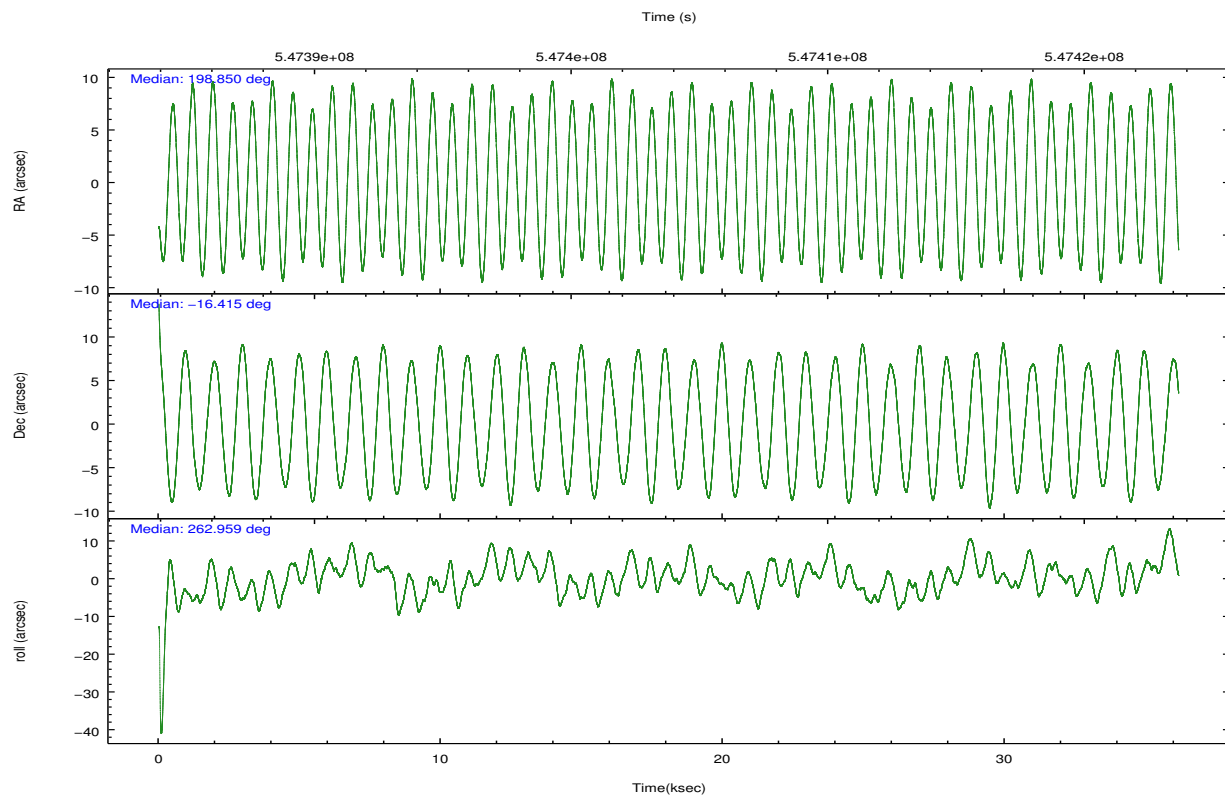
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	7880	8340	50414	15098	50100
	4%	5%	14%	8%	13%
grade 1 events	112	94	880	75	293
	0%	0%	0%	0%	0%
grade 2 events	4211	4057	46025	5745	57385
	2%	2%	13%	3%	15%
grade 3 events	1864	1980	4940	2044	22692
	1%	1%	1%	1%	6%
grade 4 events	1829	2001	4234	2031	22334
	1%	1%	1%	1%	6%
grade 5 events	6530	8285	20295	8057	22187
	3%	5%	5%	4%	6%
grade 6 events	3653	3896	74274	5223	76103
	2%	2%	21%	2%	21%
grade 7 events	140479	133737	137428	143053	109276
	84%	82%	40%	78%	30%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23567	ACIS-23567	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	198.838229	198.8497338961312	CCD I2 on	O1	Y
[deg] Pointing Dec	-16.389559	-16.41468201030195	CCD I3 on	Y	Y
[deg] Pointing Roll	262.796680	262.9565671475772	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	N	N
[s] Observation start time (MET)	547385978.184000	547385019.33812	CCD S5 on	N	N
Observation start date	2015-05-07T11:38:31	2015-05-07T11:23:39	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	547421919.184000	547422145.3527	On-chip summing requested	N	N
Observation end date	2015-05-07T21:37:32	2015-05-07T21:42:25	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



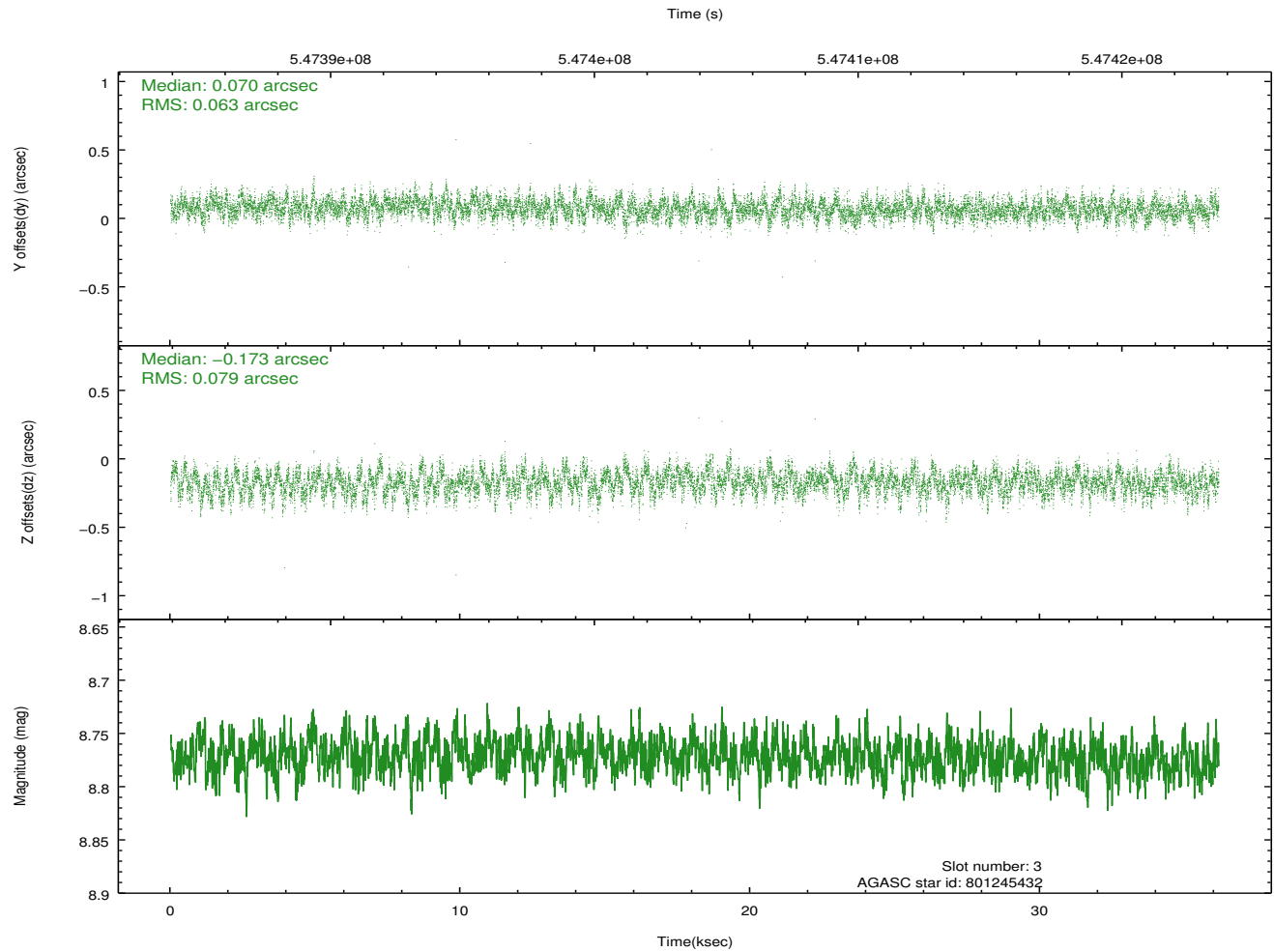
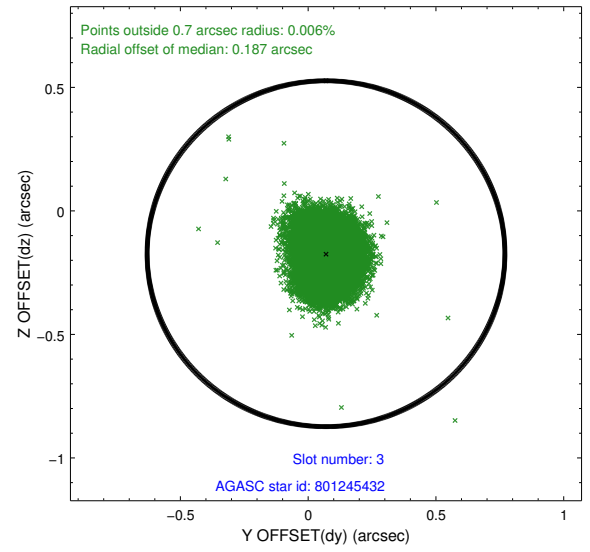
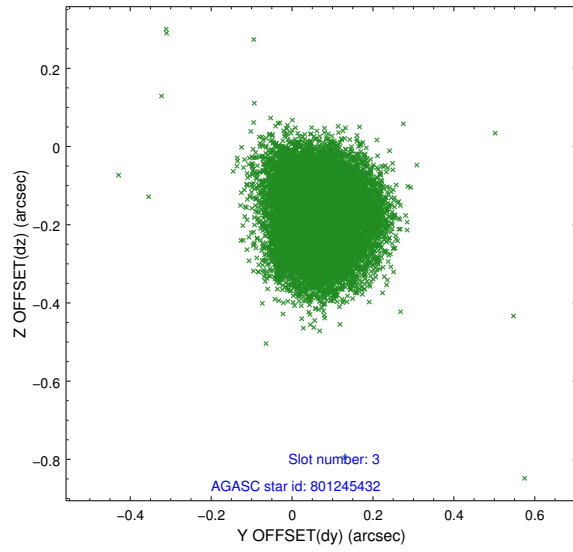


Slot Statistics

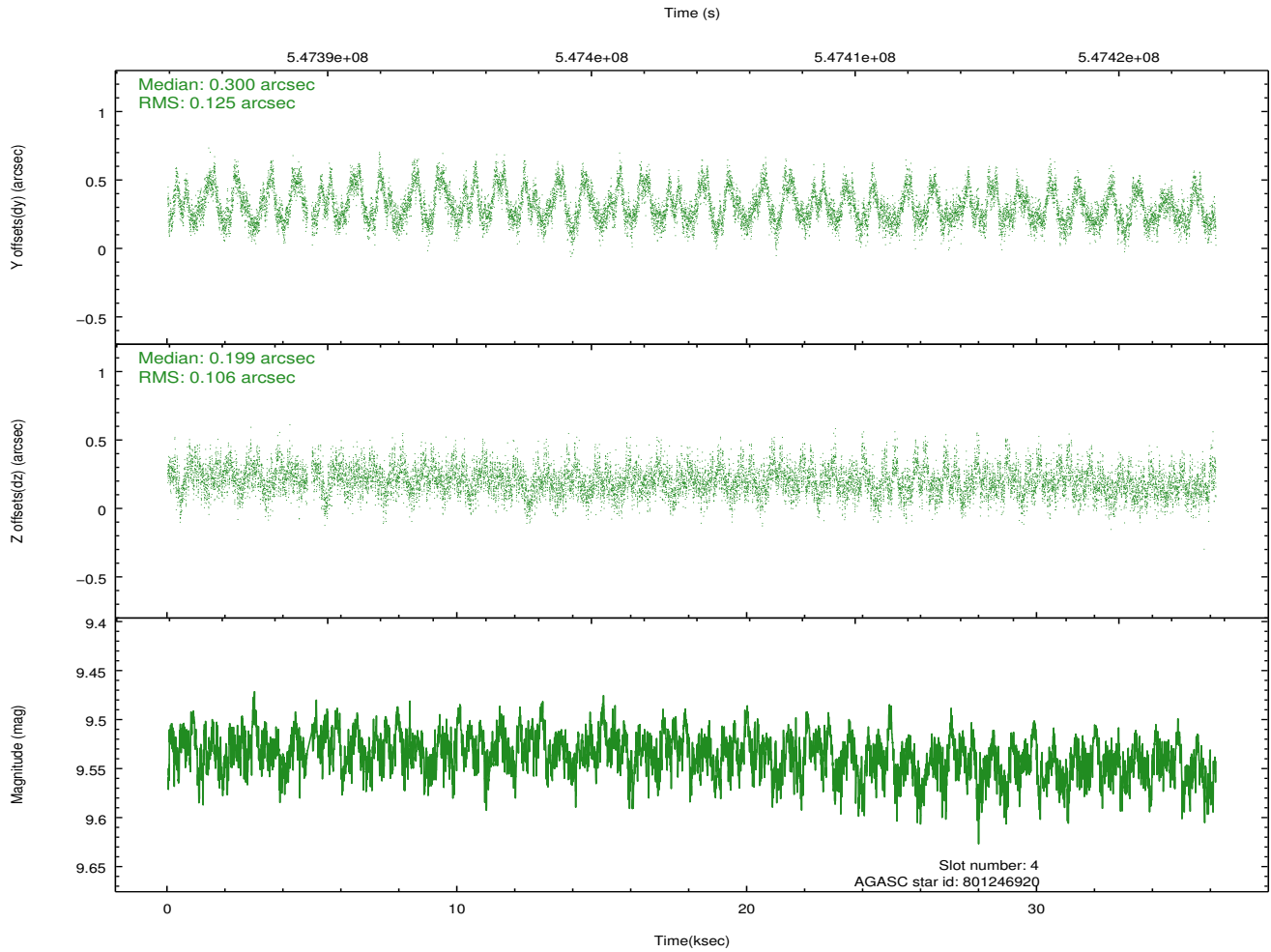
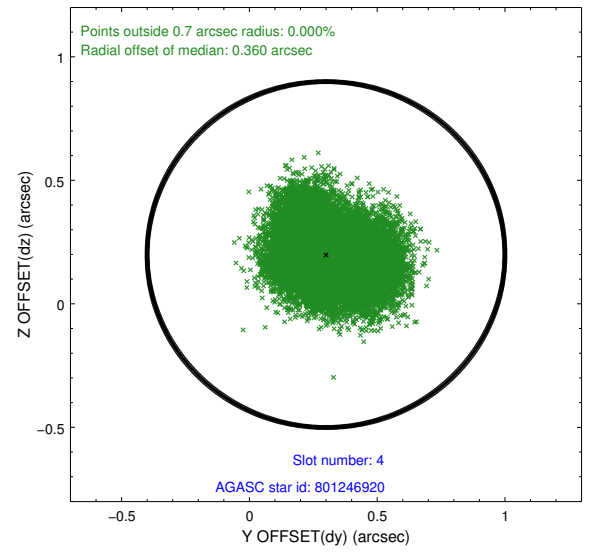
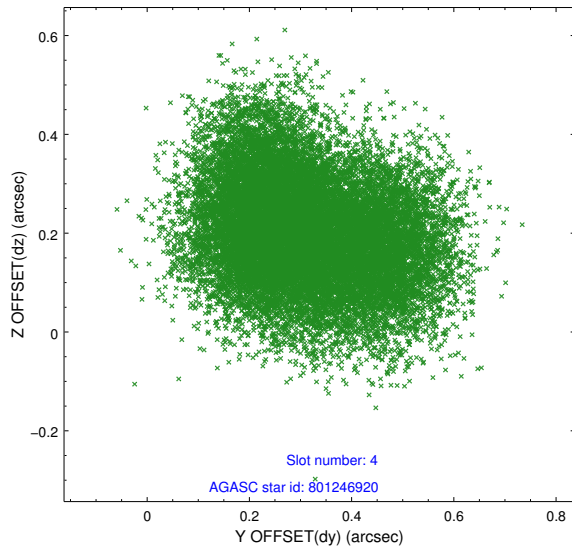
lot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-2	7.13	8820	-0.120	-0.091	0.030	0.037	0.000000	0.000000	-771.57	-1739.33
1	FID		ACIS-S-4	7.22	8820	0.352	0.081	0.029	0.047	0.000000	0.000000	2142.17	169.22
2	FID		ACIS-S-5	7.24	8819	-0.253	0.011	0.019	0.030	0.000000	0.000000	-1824.48	162.87
3	GUIDE	used	801245432	8.77	17633	0.070	-0.173	0.107	0.174	198.949872	-16.275389	-455.07	330.56
4	GUIDE	used	801246920	9.54	17558	0.300	0.199	0.178	0.276	198.279277	-16.235725	-304.08	-1985.75
5	BAD	used	801251976	10.33	16441	-0.073	0.339	0.289	0.455	199.489404	-15.954989	-1830.65	2040.33
6	GUIDE	used	801252224	9.46	17626	-0.122	-0.103	0.132	0.217	198.949290	-17.046136	2297.38	676.05
7	GUIDE	used	801255952	9.35	17621	-0.189	-0.203	0.202	0.334	199.159726	-16.764729	1202.25	1269.14

2.4 Star Slots

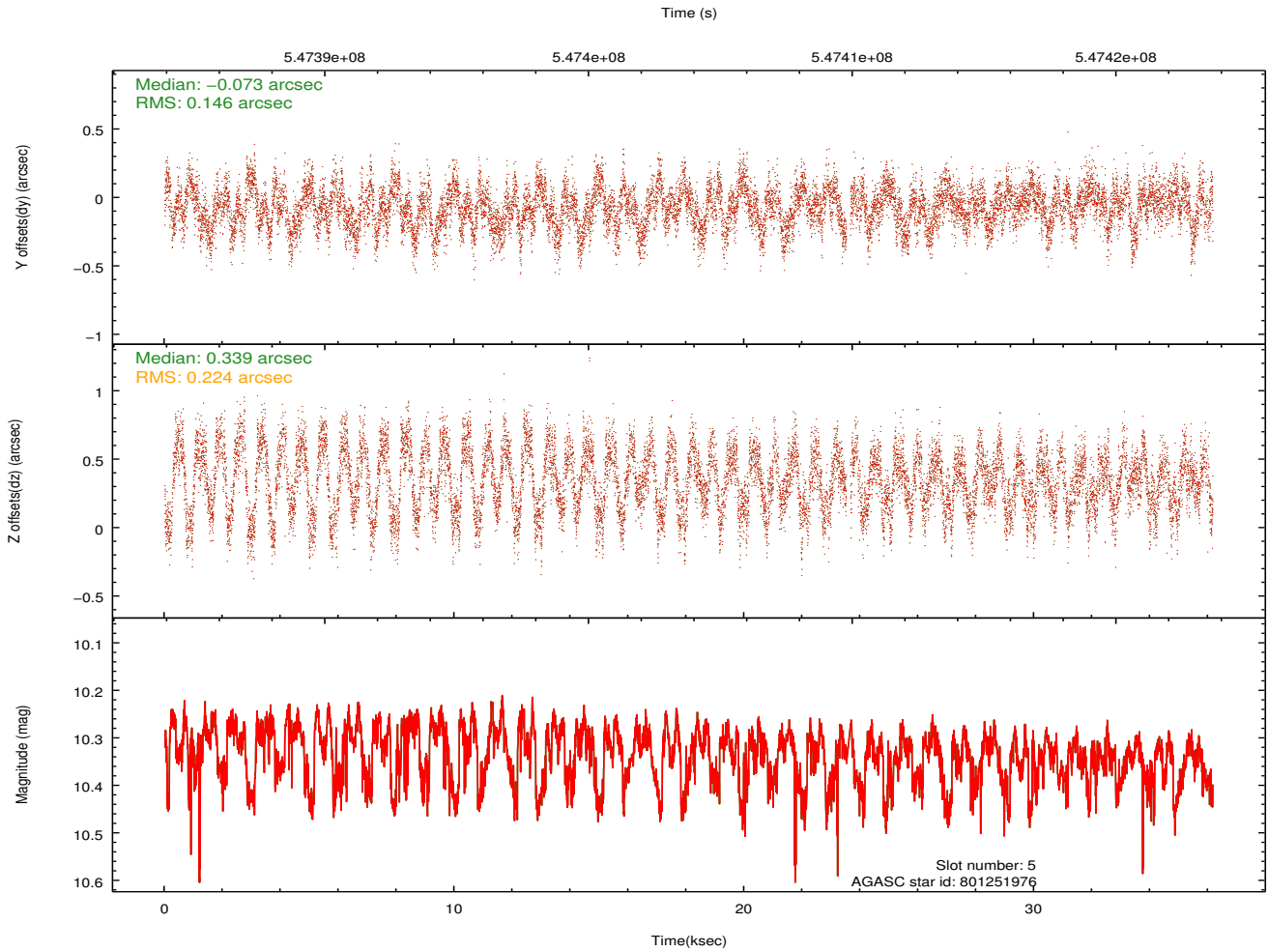
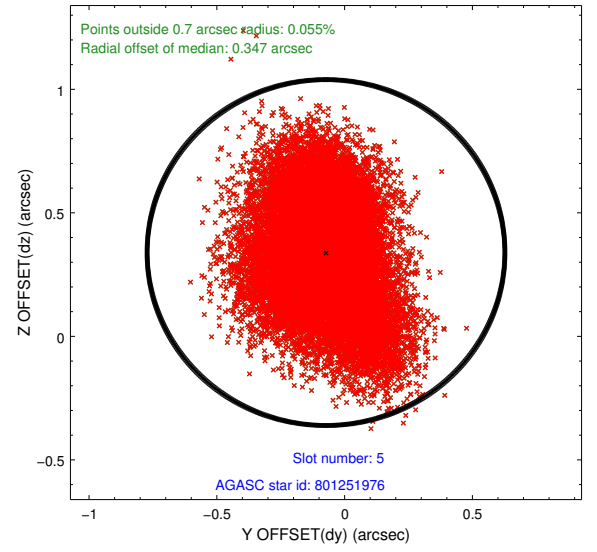
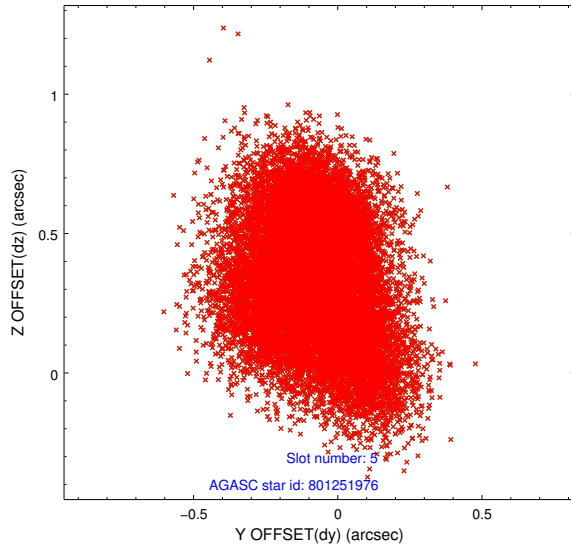
2.4.1 Slot 3



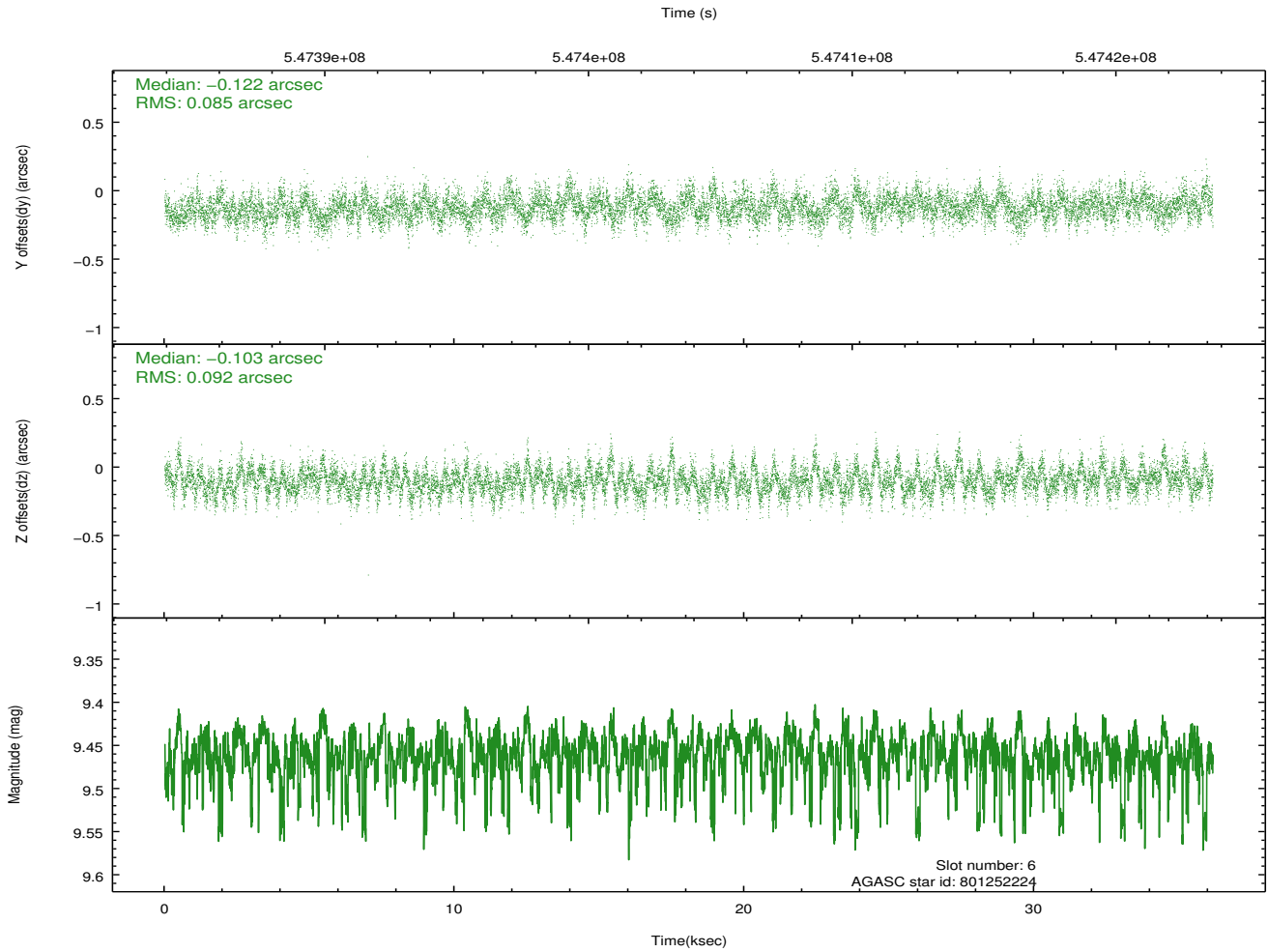
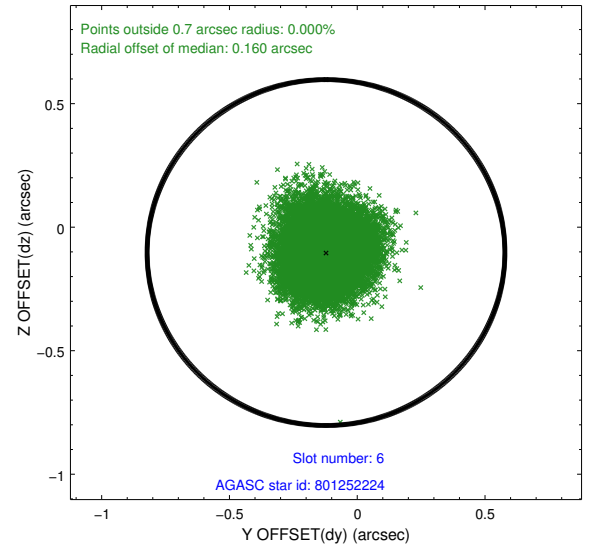
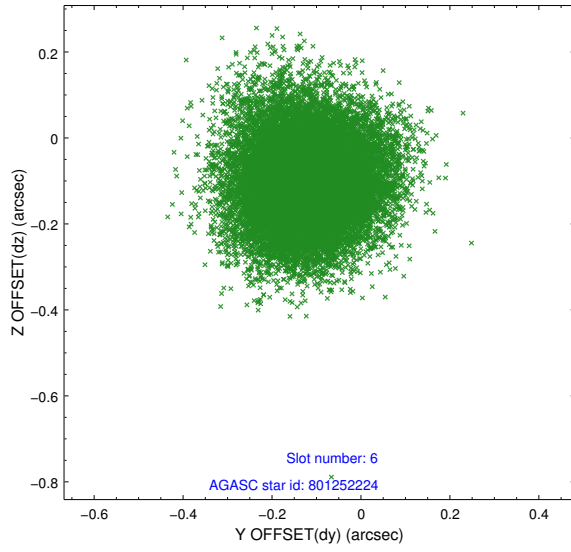
2.4.2 Slot 4



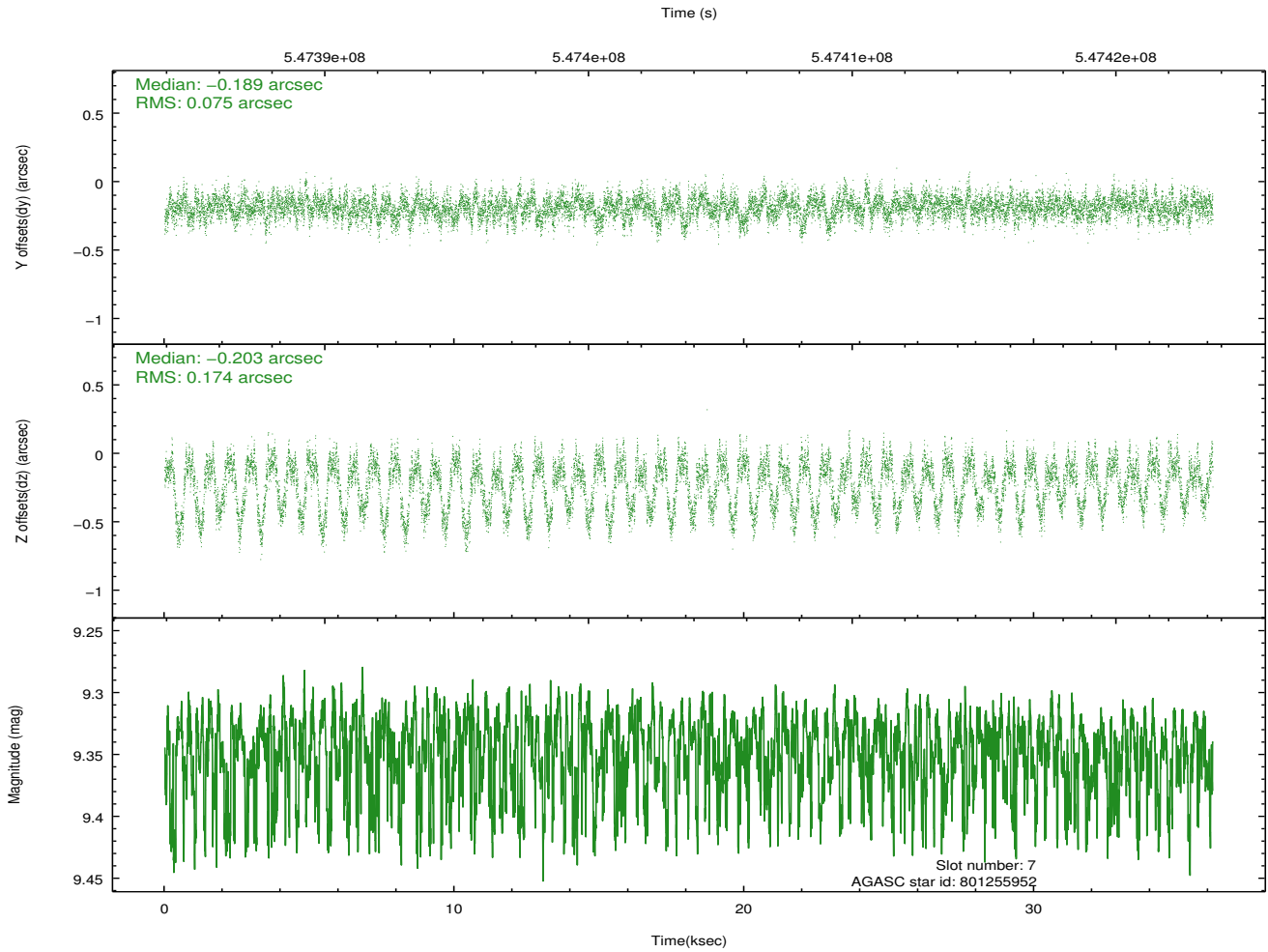
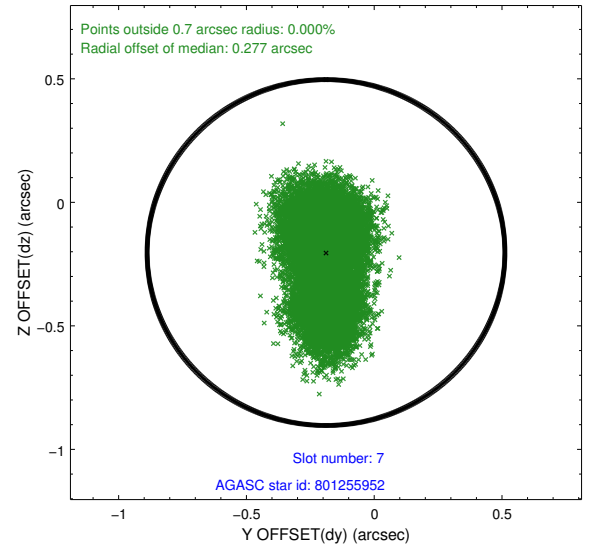
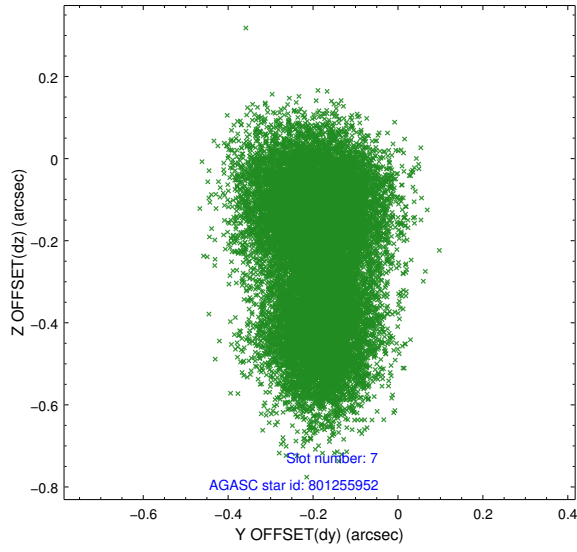
2.4.3 Slot 5



2.4.4 Slot 6

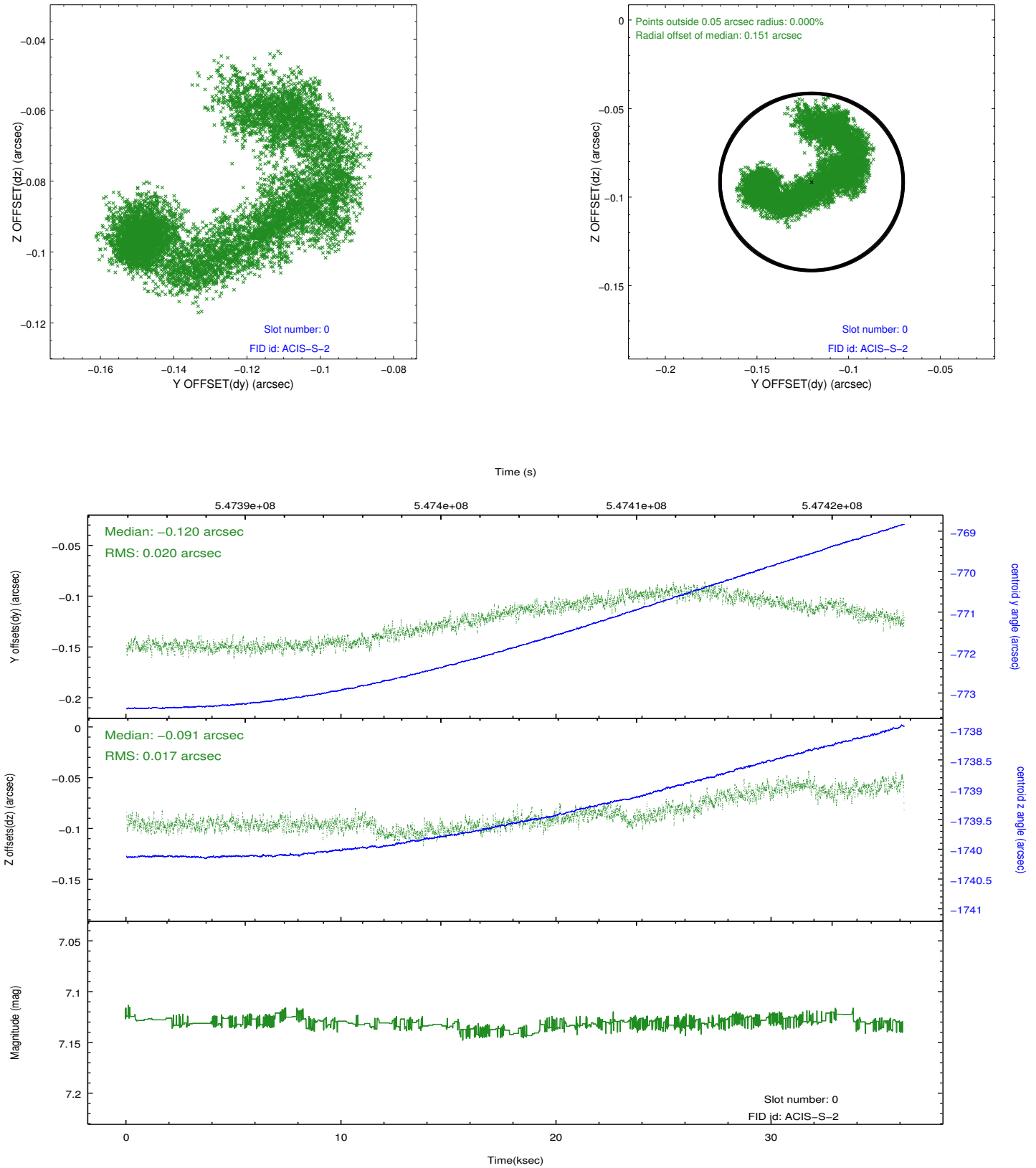


2.4.5 Slot 7

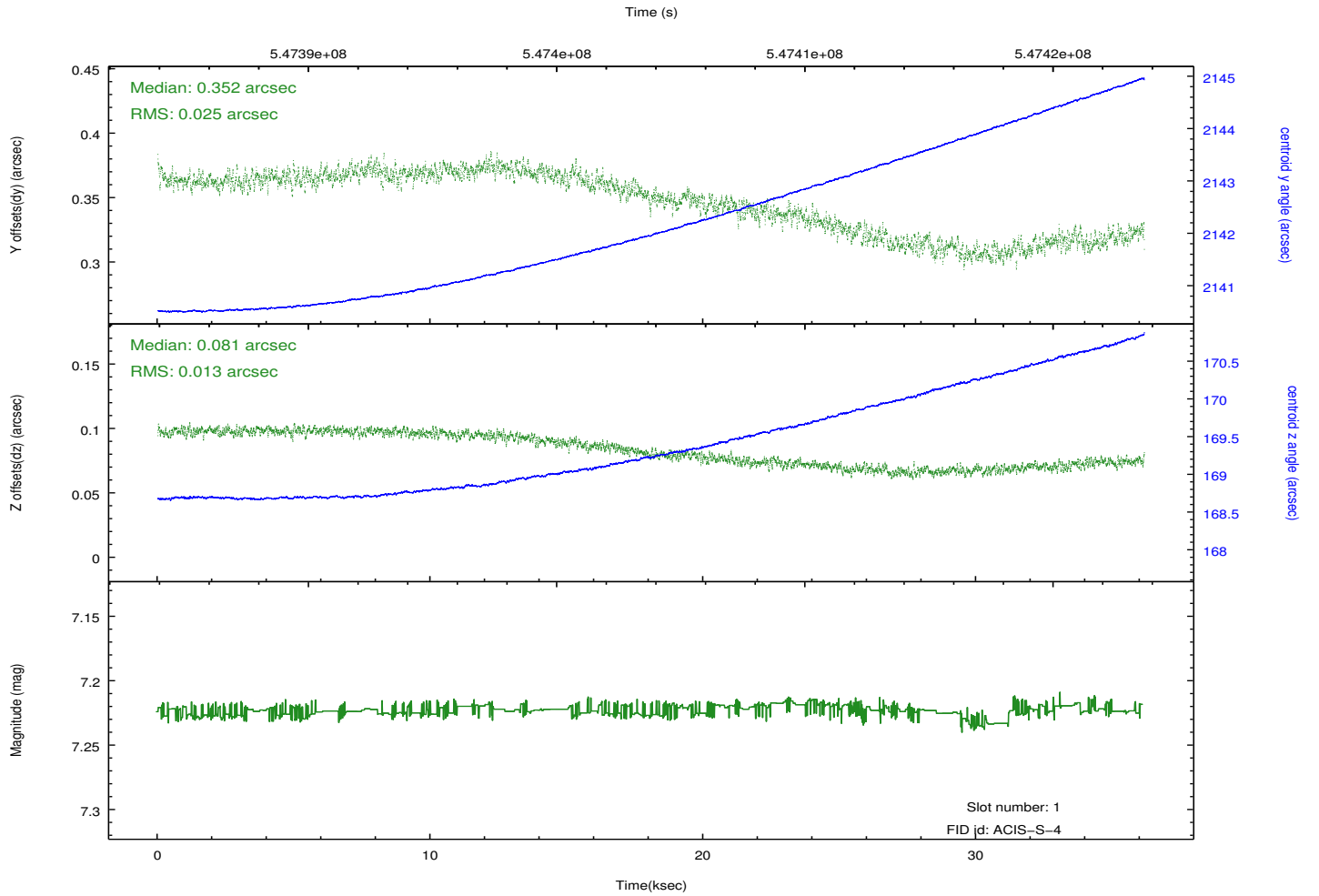
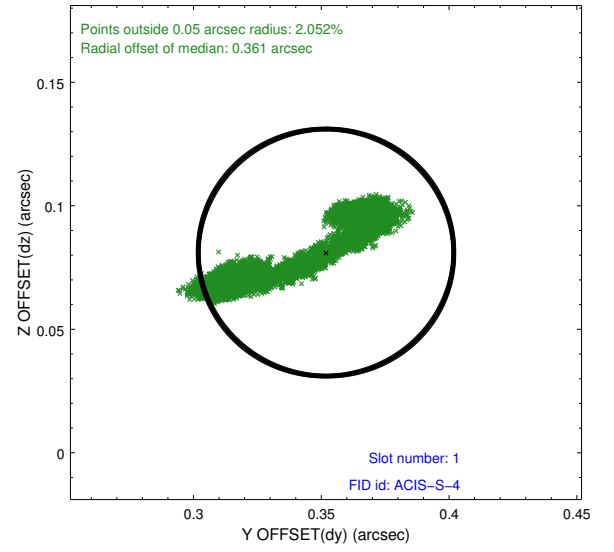
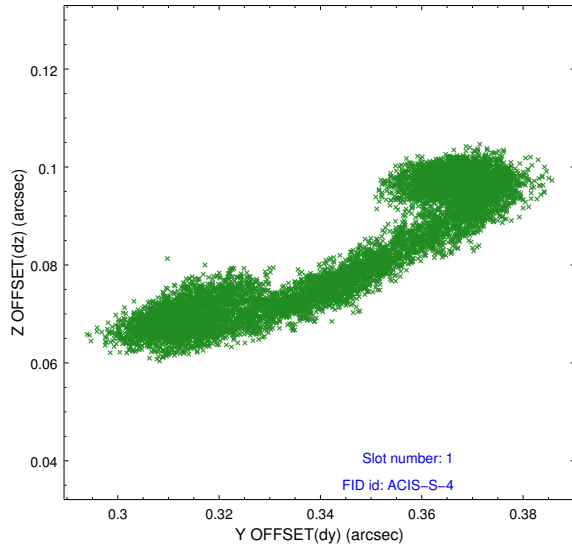


2.5 FID Slots

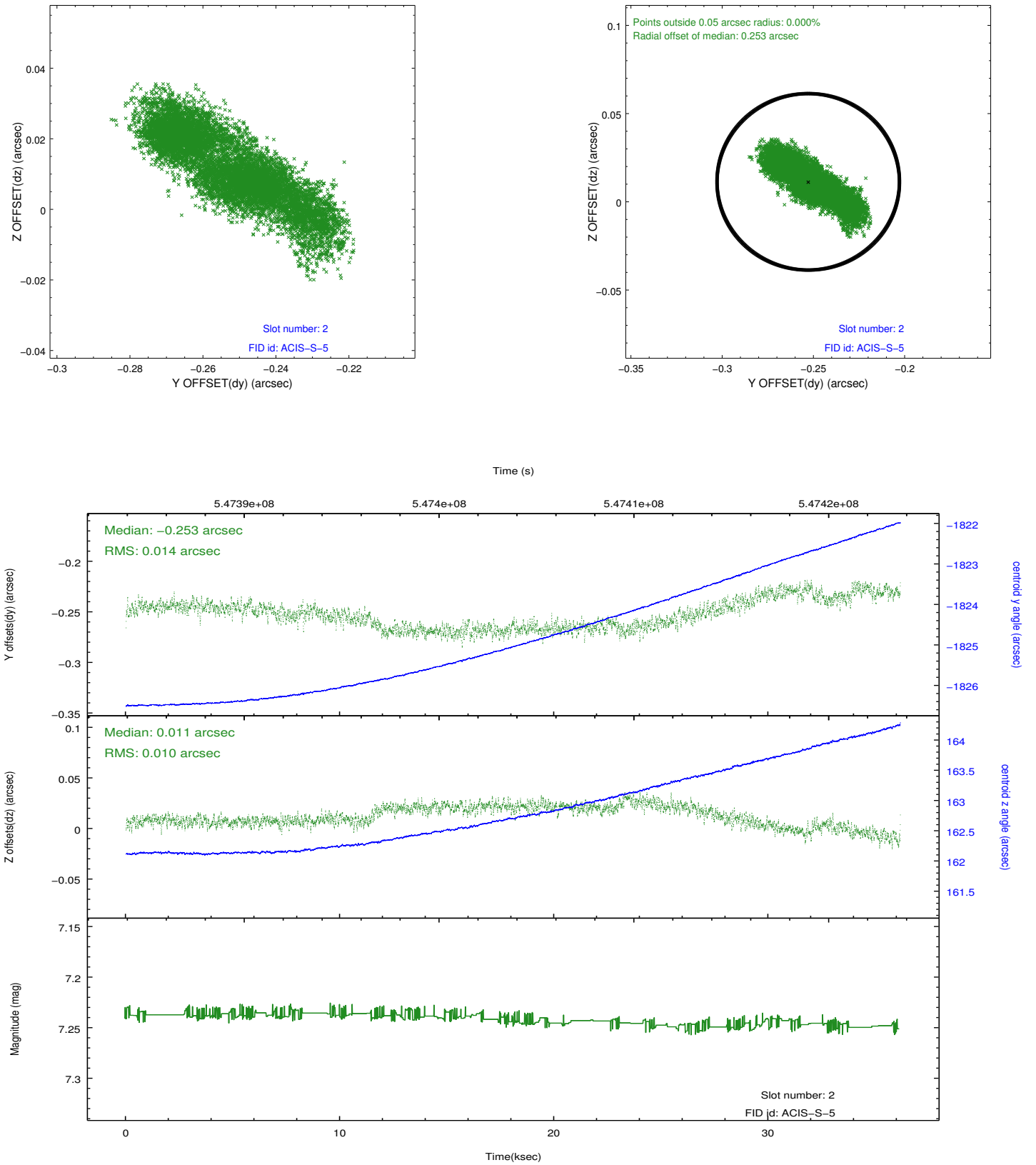
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2015.05.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	36.003400277019

A.2 Comments