

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 14411 - L2 Version 1
Chandra X-Ray Center

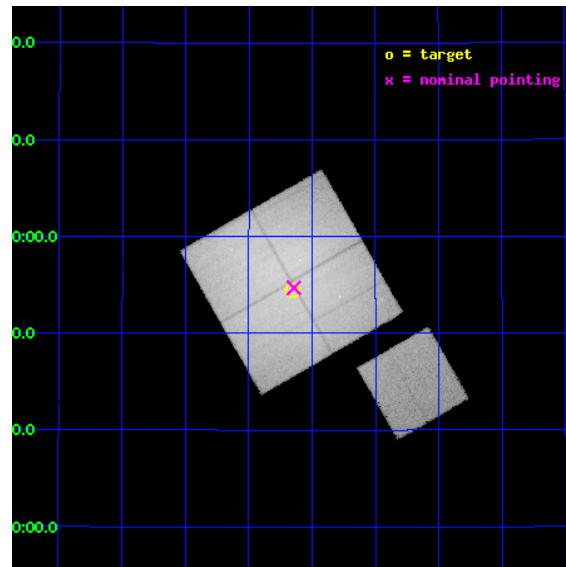
L2 Processing Date : Mar 21 2012

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1 Front

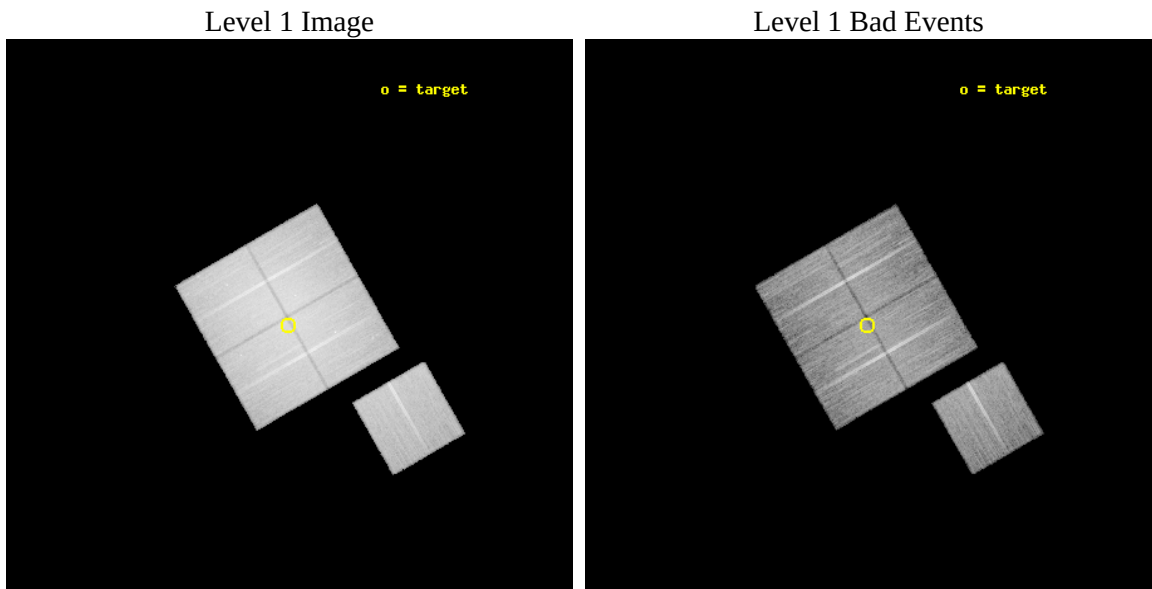
seq_num	801174	Sequence number
obs_id	14411	Observation id
title	Examining incredible structure in the core of the Coma cluster	Pro
observer	Dr Jeremy Sanders	Principal investigator
object	Coma cluster	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	194.91427	Observer's specified target RA [deg]
dec_targ	27.907942	Observer's specified target Dec [deg]
ra_nom	194.91095234952	Nominal RA [deg]
dec_nom	27.911629034869	Nominal Dec [deg]
roll_nom	150.21024514593	Nominal Roll [deg]
revision	1	Processing version of data
ontime	34081.359221935	Sum of GTIs [s]
livetime	33636.061173369	Livetime [s]
ontime0	34084.500262141	Sum of GTIs [s]
ontime1	34084.500262141	Sum of GTIs [s]
ontime2	34081.359221935	Sum of GTIs [s]
ontime3	34081.359221935	Sum of GTIs [s]
ontime6	34081.359221756	Sum of GTIs [s]
l2events	637337	Number of level 2 events



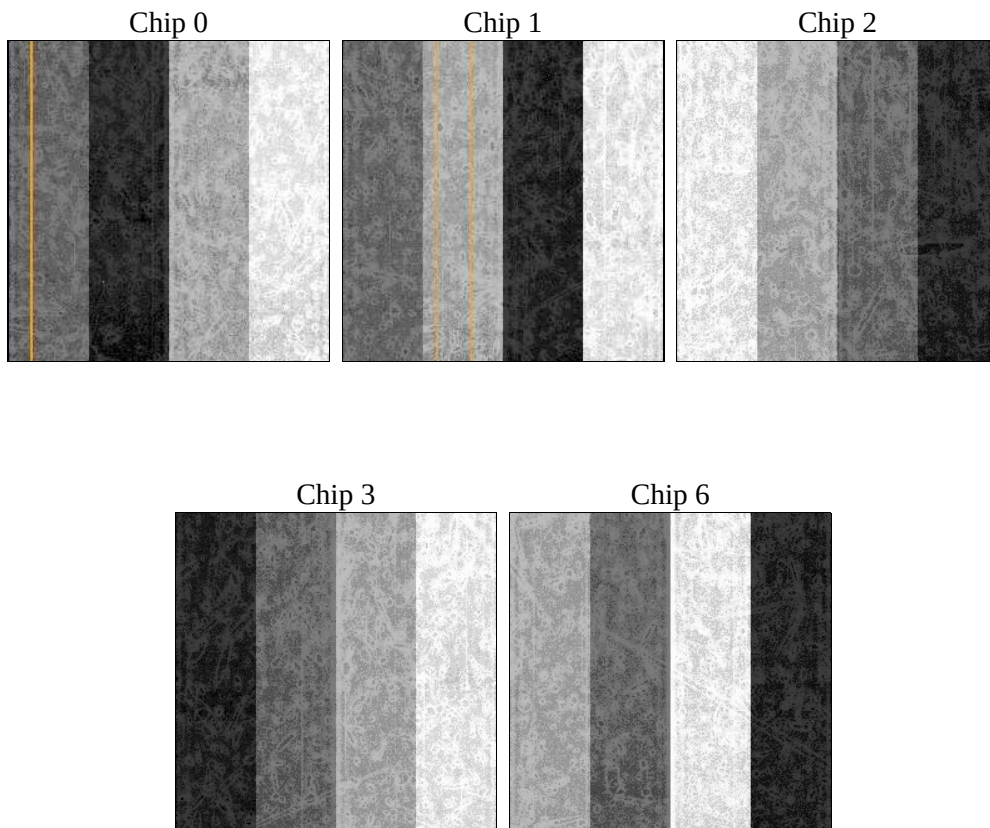
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	34000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	34081.359221935	Sum of GTIs [s]
caldsver	4.4.8	 	ontime0	34084.500262141	Sum of GTIs [s]
date	2012-03-21T16:27:51	Date and time of file creation	ontime1	34084.500262141	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	34081.359221935	Sum of GTIs [s]
			ontime3	34081.359221935	Sum of GTIs [s]
			ontime6	34081.359221756	Sum of GTIs [s]
			l1events	1490909	Number of level 1 events

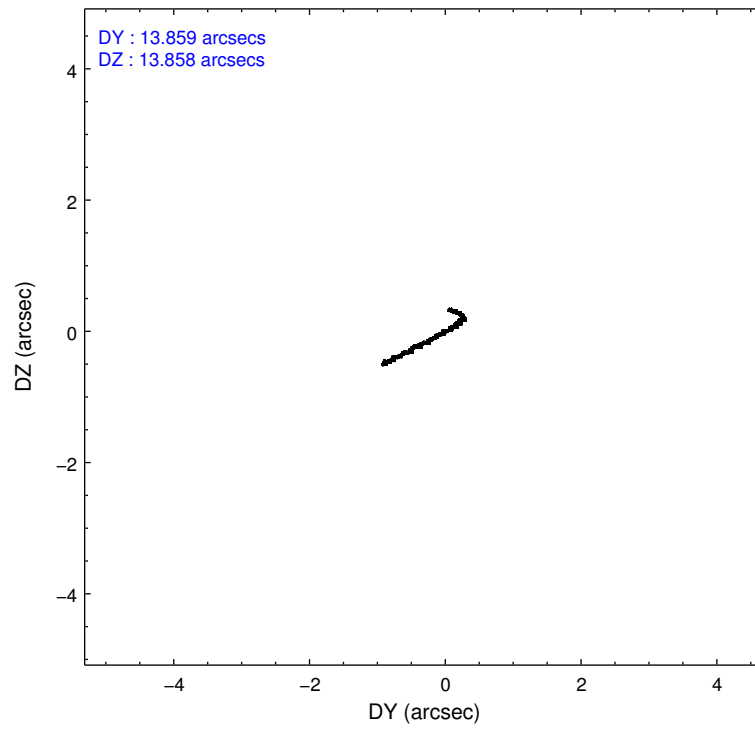
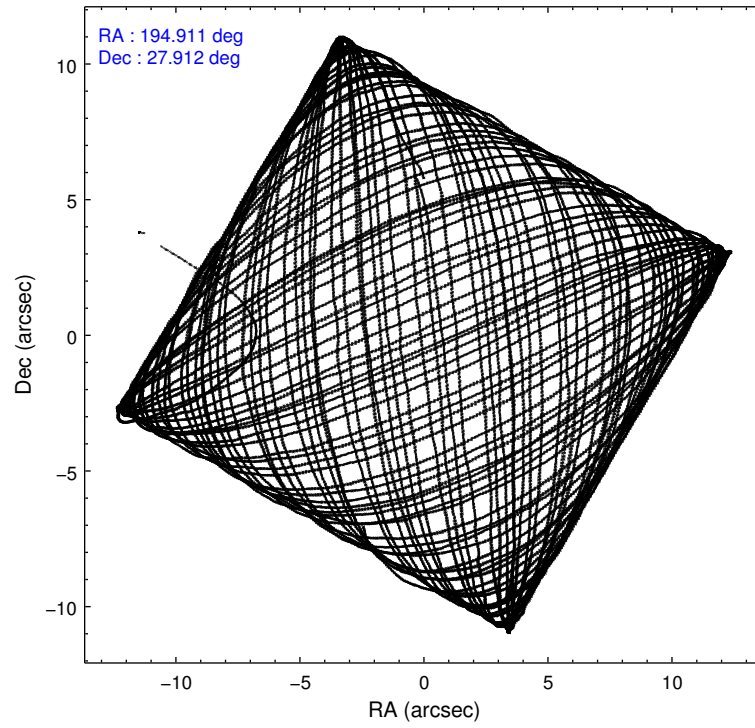
2.1.4 Events

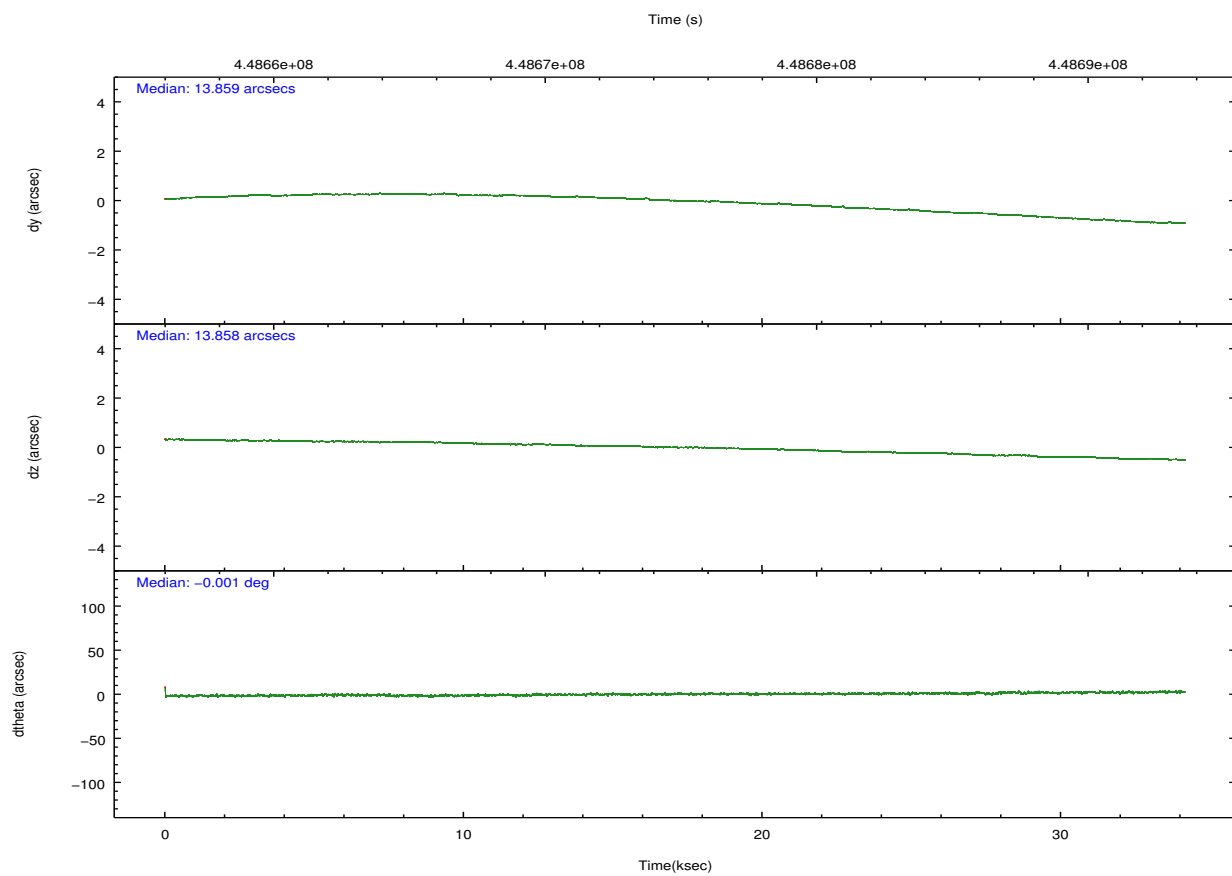
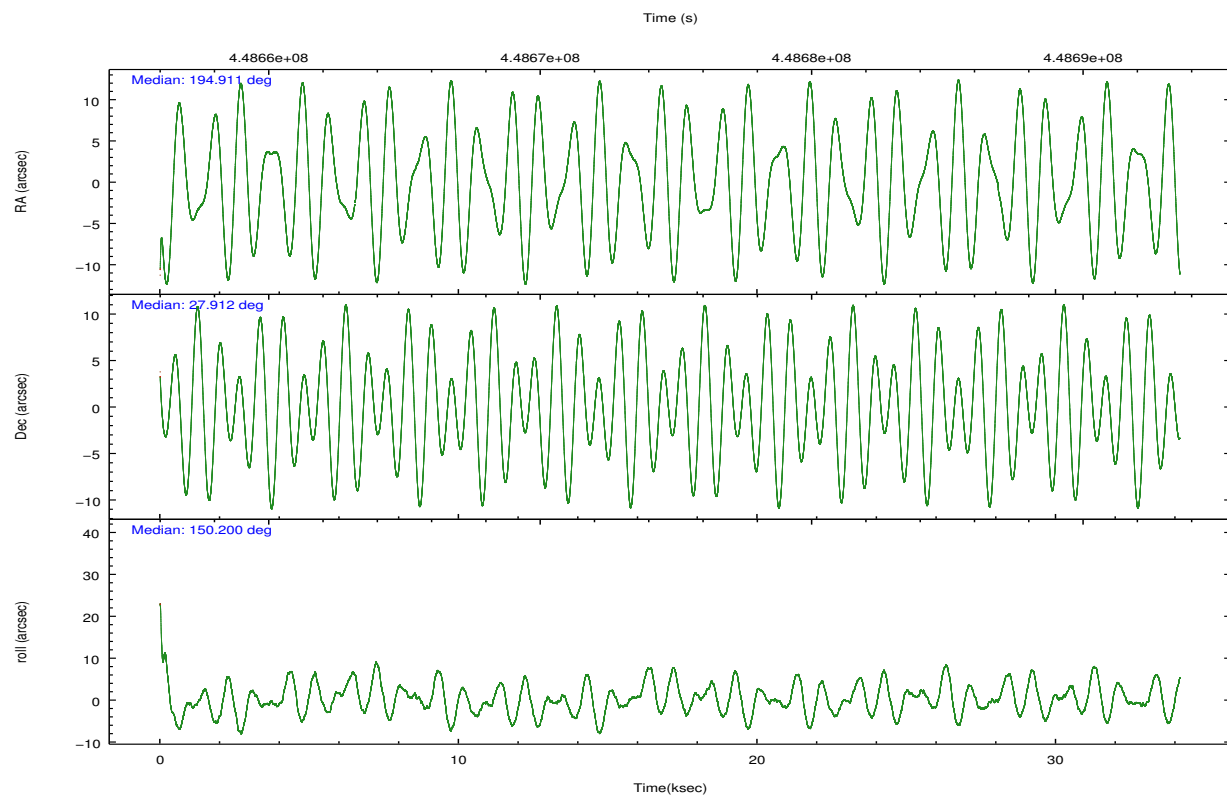
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	313303	345259	313709	311552	207086	grade 0 events	115338	142177	109173	108089	26955
rejected events	156776	153384	166817	165831	161191		36%	41%	34%	34%	13%
rejected %	50%	44%	53%	53%	77%	grade 1 events	530	612	556	546	155
							0%	0%	0%	0%	0%
						grade 2 events	19702	24081	17891	17484	7339
							6%	6%	5%	5%	3%
						grade 3 events	6494	7740	6185	6229	3058
							2%	2%	1%	1%	1%
						grade 4 events	6670	7686	6137	6143	3015
							2%	2%	1%	1%	1%
						grade 5 events	8769	9490	8619	10085	9096
							2%	2%	2%	3%	4%
						grade 6 events	8335	10209	7516	7789	5533
							2%	2%	2%	2%	2%
						grade 7 events	147465	143264	157632	155187	151935
							47%	41%	50%	49%	73%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	194.942082	194.9109523495189	CCD I2 on	Y	Y
[deg] Pointing Dec	27.911834	27.91162903486862	CCD I3 on	Y	Y
[deg] Pointing Roll	149.986979	150.2102451459308	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O2	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	448657863.184000	448656421.4982	CCD S5 on	N	N
Observation start date	2012-03-20T19:09:57	2012-03-20T18:47:01	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	448691863.184000	448692672.16259	On-chip summing requested	N	N
Observation end date	2012-03-21T04:36:37	2012-03-21T04:51:12	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



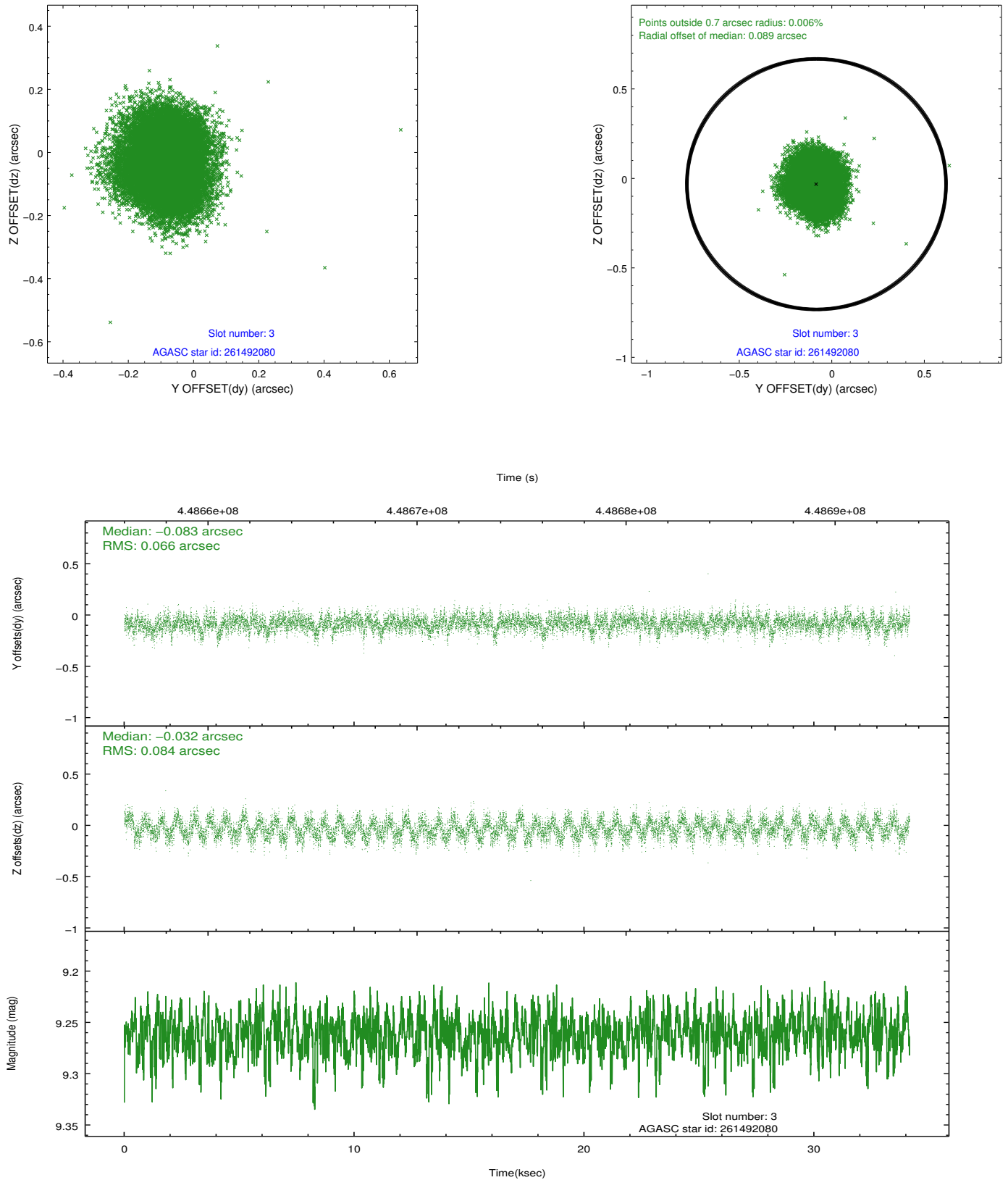


Slot Statistics

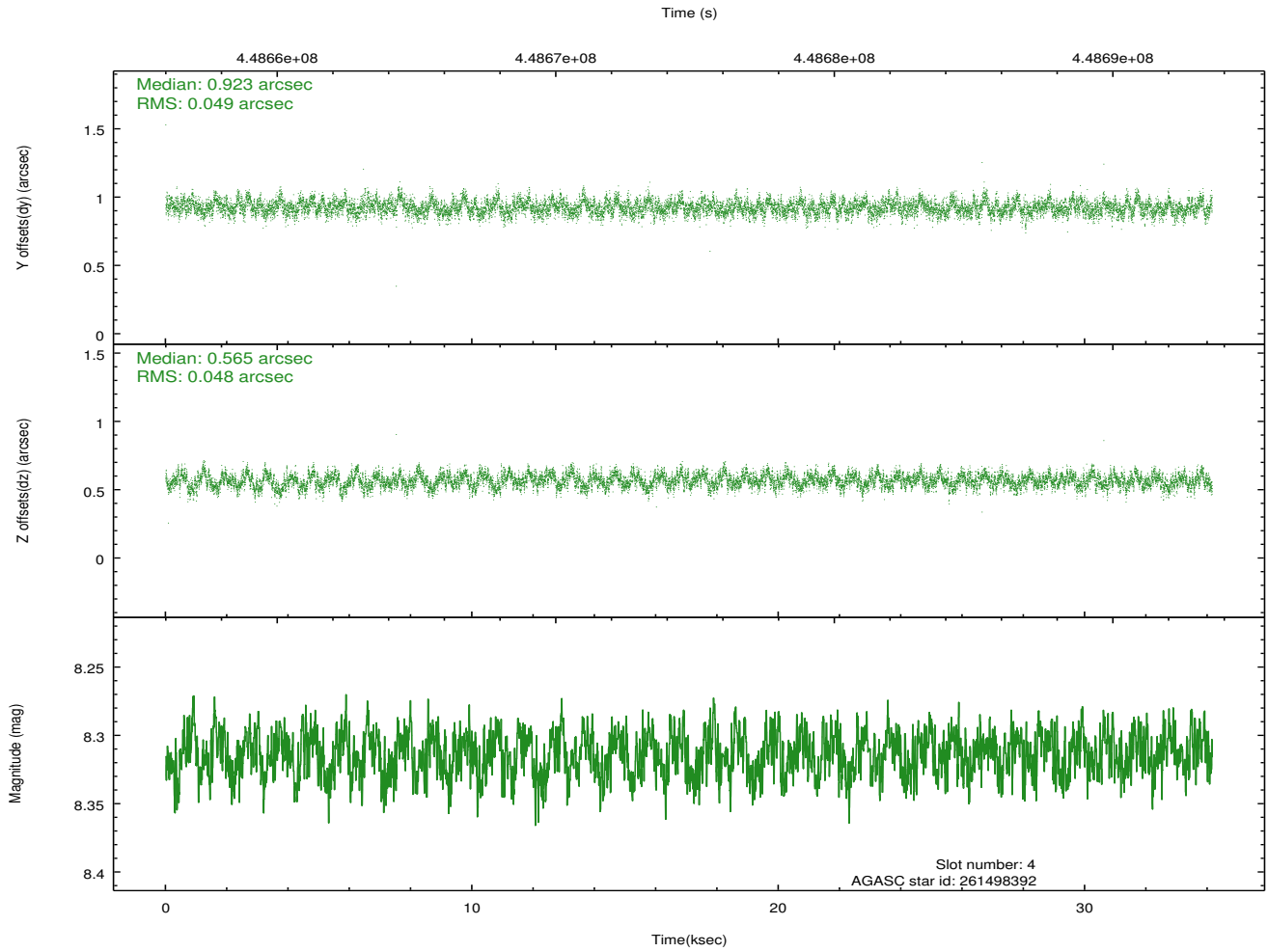
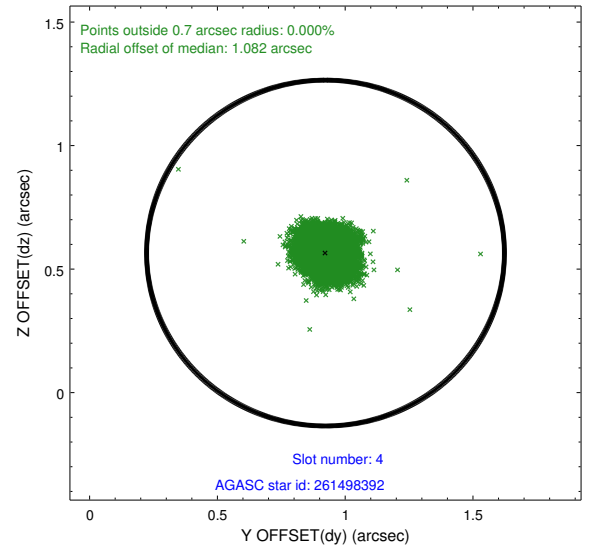
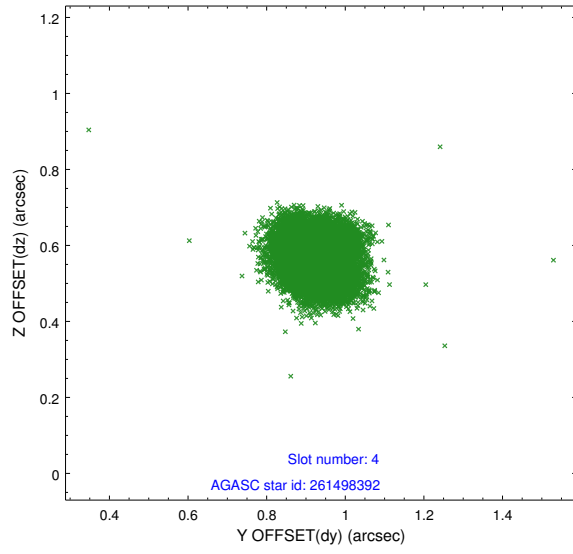
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.01	8330	-0.111	-0.080	0.013	0.024	0.000000	0.000000	-768.53	-843.83
1	FID	ACIS-I-4	7.01	8331	0.260	0.086	0.009	0.014	0.000000	0.000000	2145.91	1062.45
2	FID	ACIS-I-5	7.08	8331	-0.250	0.064	0.012	0.018	0.000000	0.000000	-1822.41	1060.38
3	GUIDE	261492080	9.26	16643	-0.083	-0.032	0.116	0.179	194.976344	28.631585	1203.17	-2297.48
4	GUIDE	261498392	8.31	16659	0.923	0.565	0.073	0.118	194.888587	28.238913	737.56	-934.01
5	GUIDE	261502496	7.35	16661	-0.479	-0.104	0.082	0.125	194.887297	28.065668	427.85	-392.41
6	GUIDE	261505232	9.73	16642	-0.142	-0.287	0.139	0.228	194.216553	27.802521	1806.26	1491.42
7	GUIDE	261495096	9.88	16633	-0.215	-0.141	0.168	0.281	194.411078	28.430653	2392.64	-778.73

2.4 Star Slots

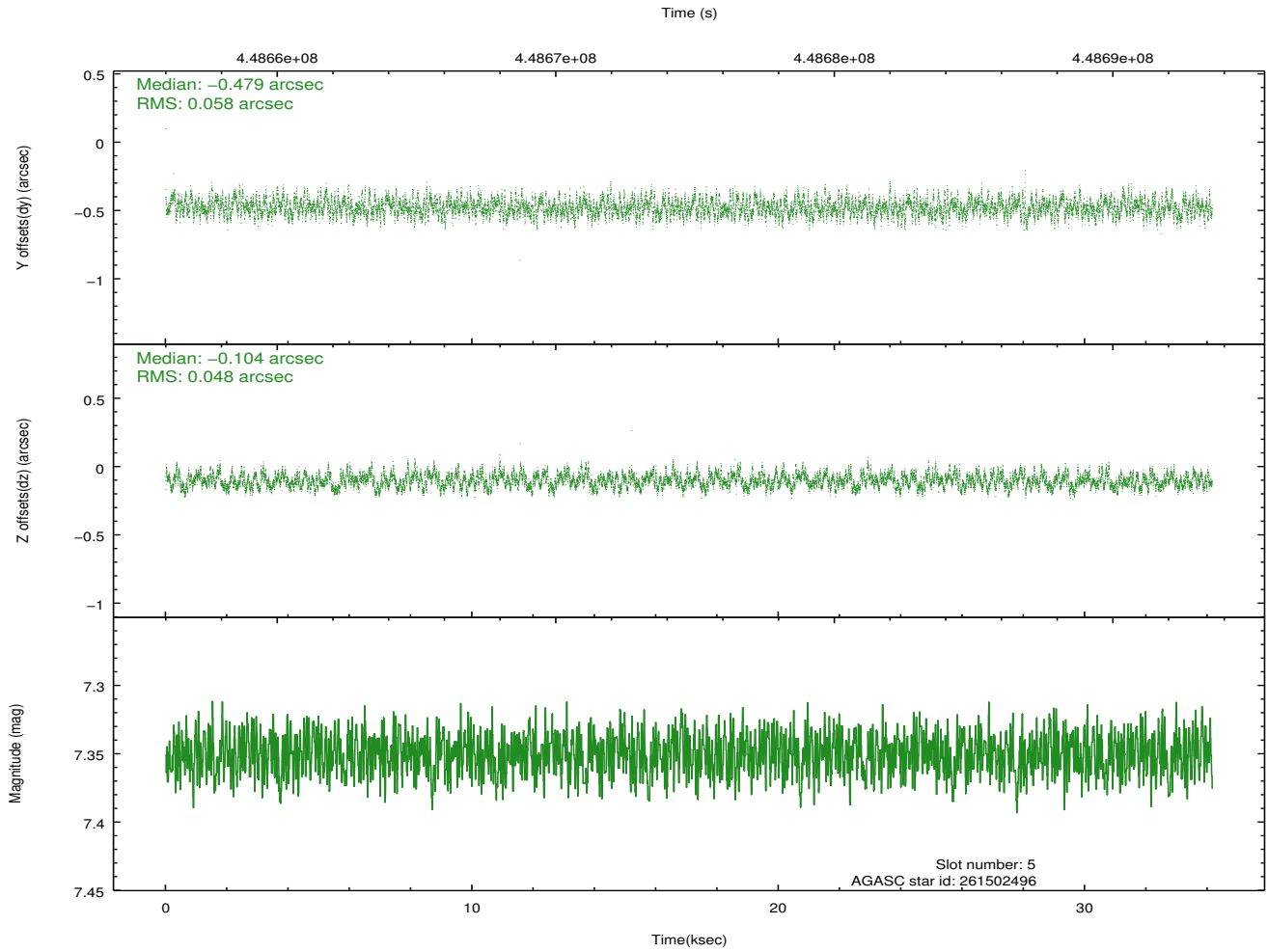
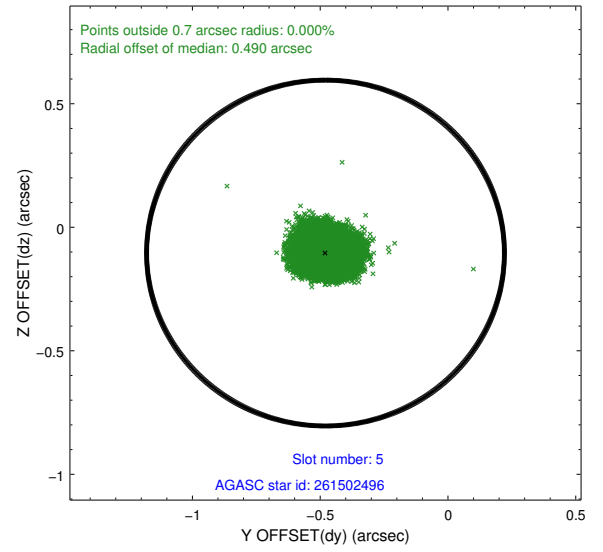
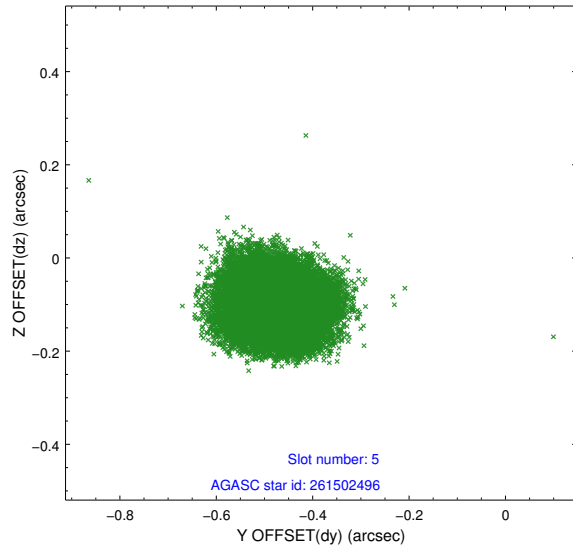
2.4.1 Slot 3



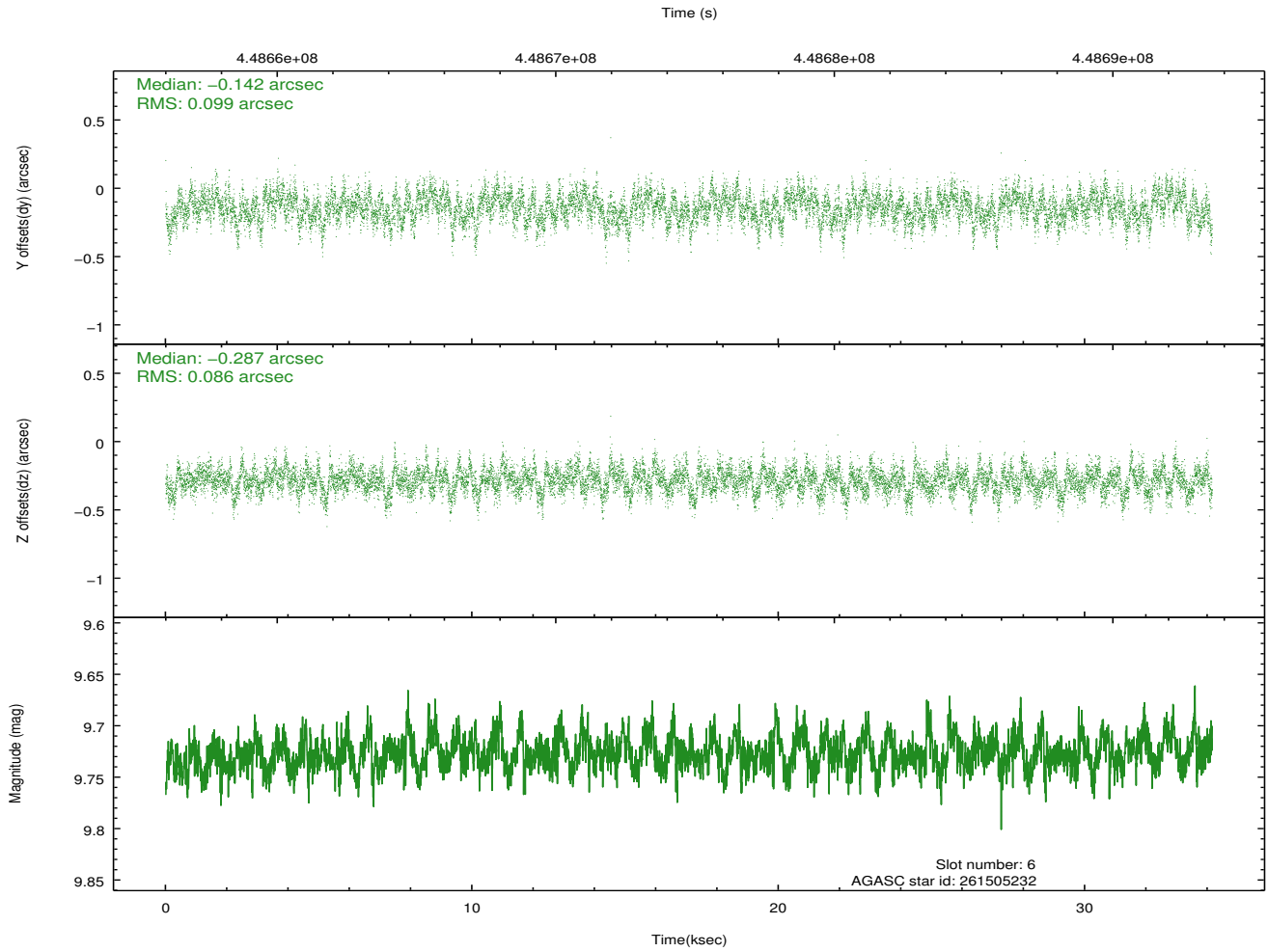
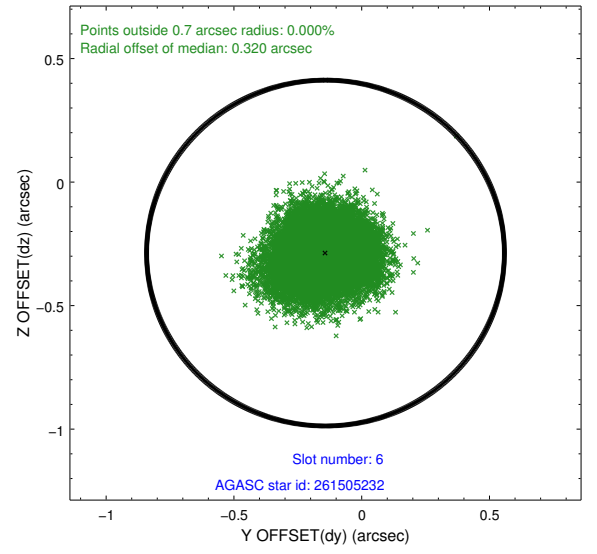
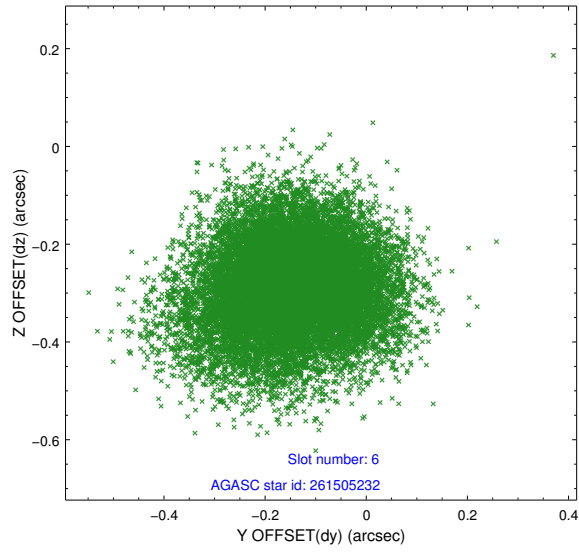
2.4.2 Slot 4



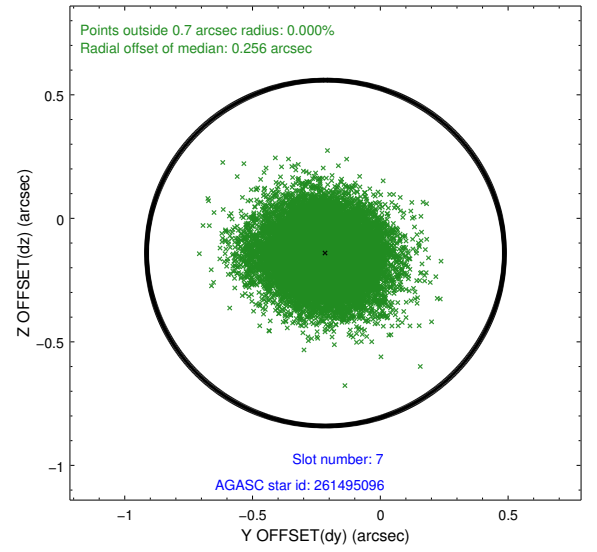
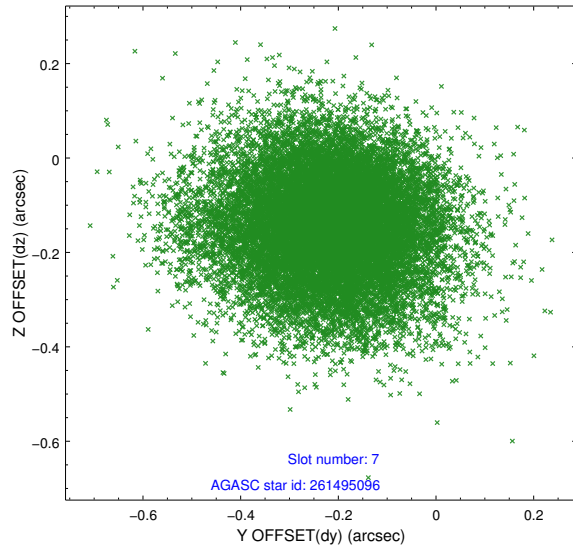
2.4.3 Slot 5



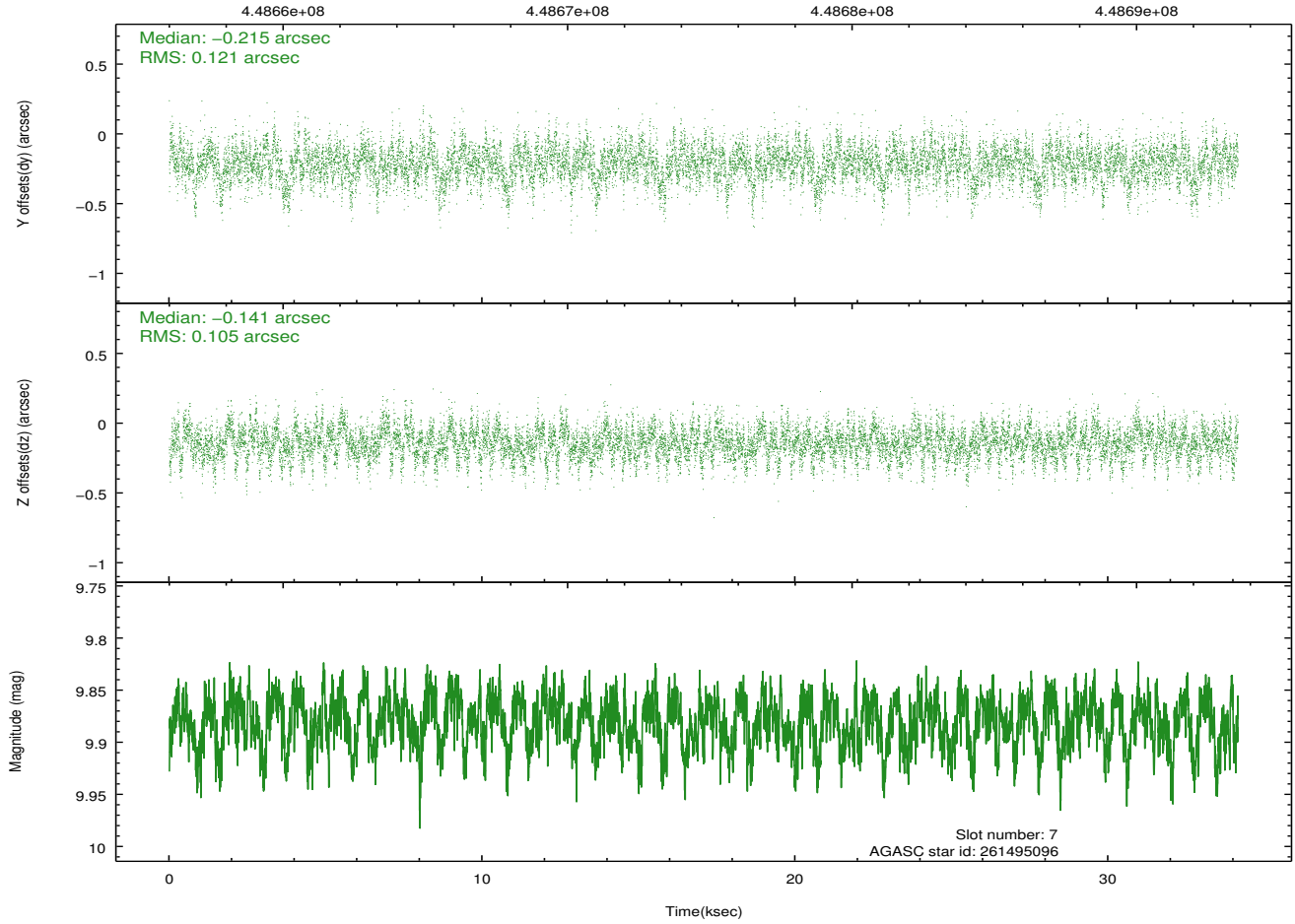
2.4.4 Slot 6



2.4.5 Slot 7

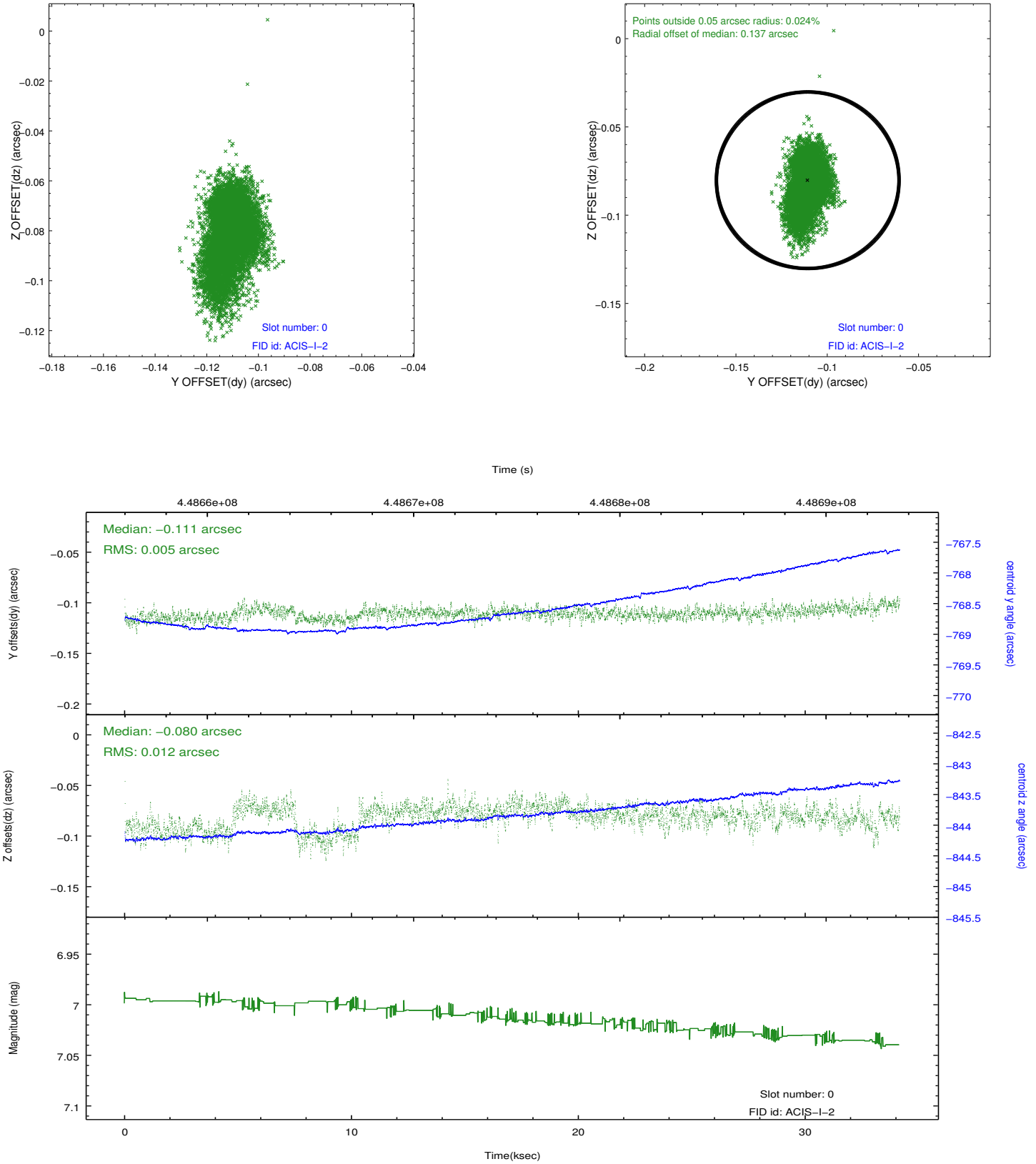


Time (s)

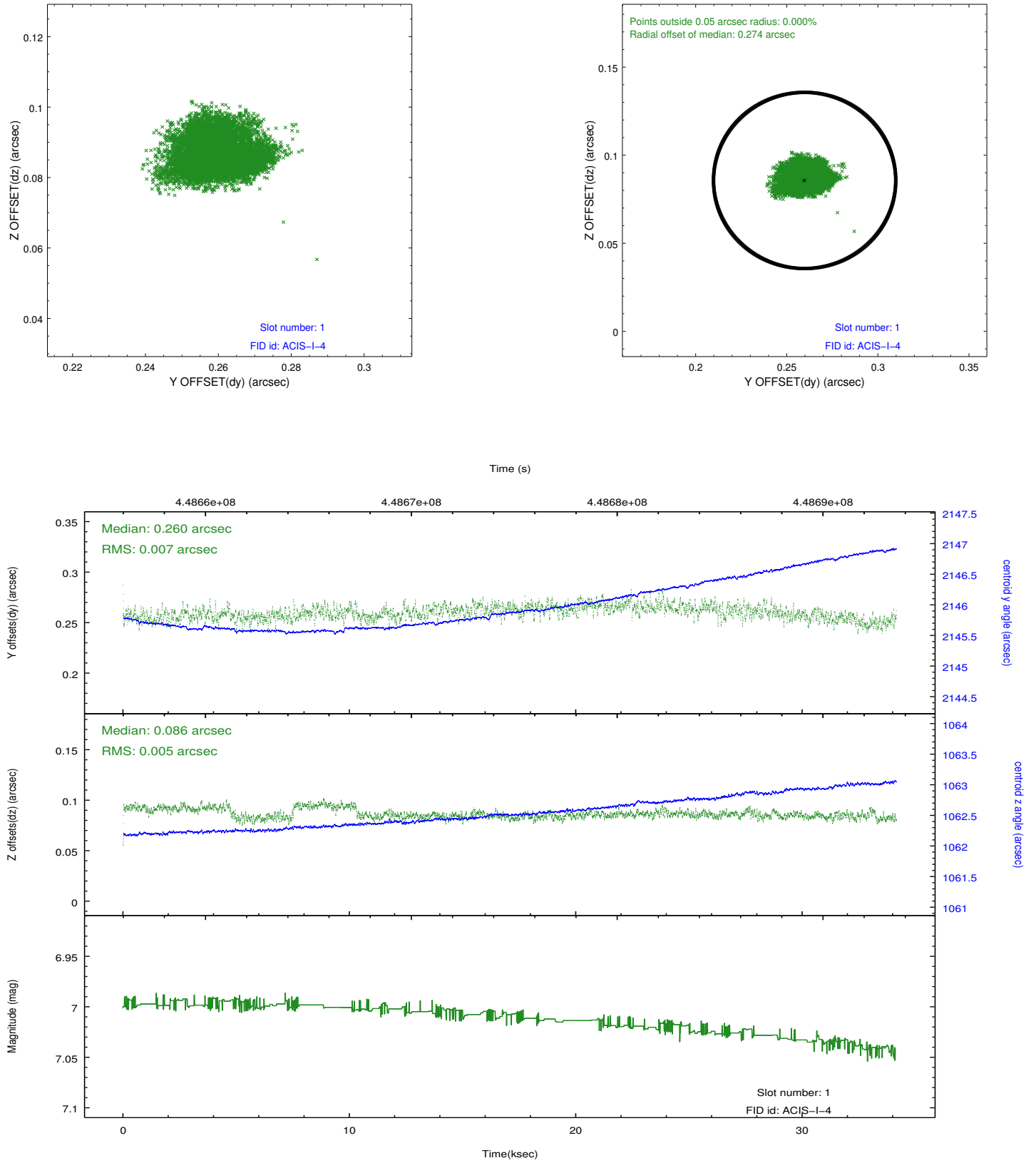


2.5 FID Slots

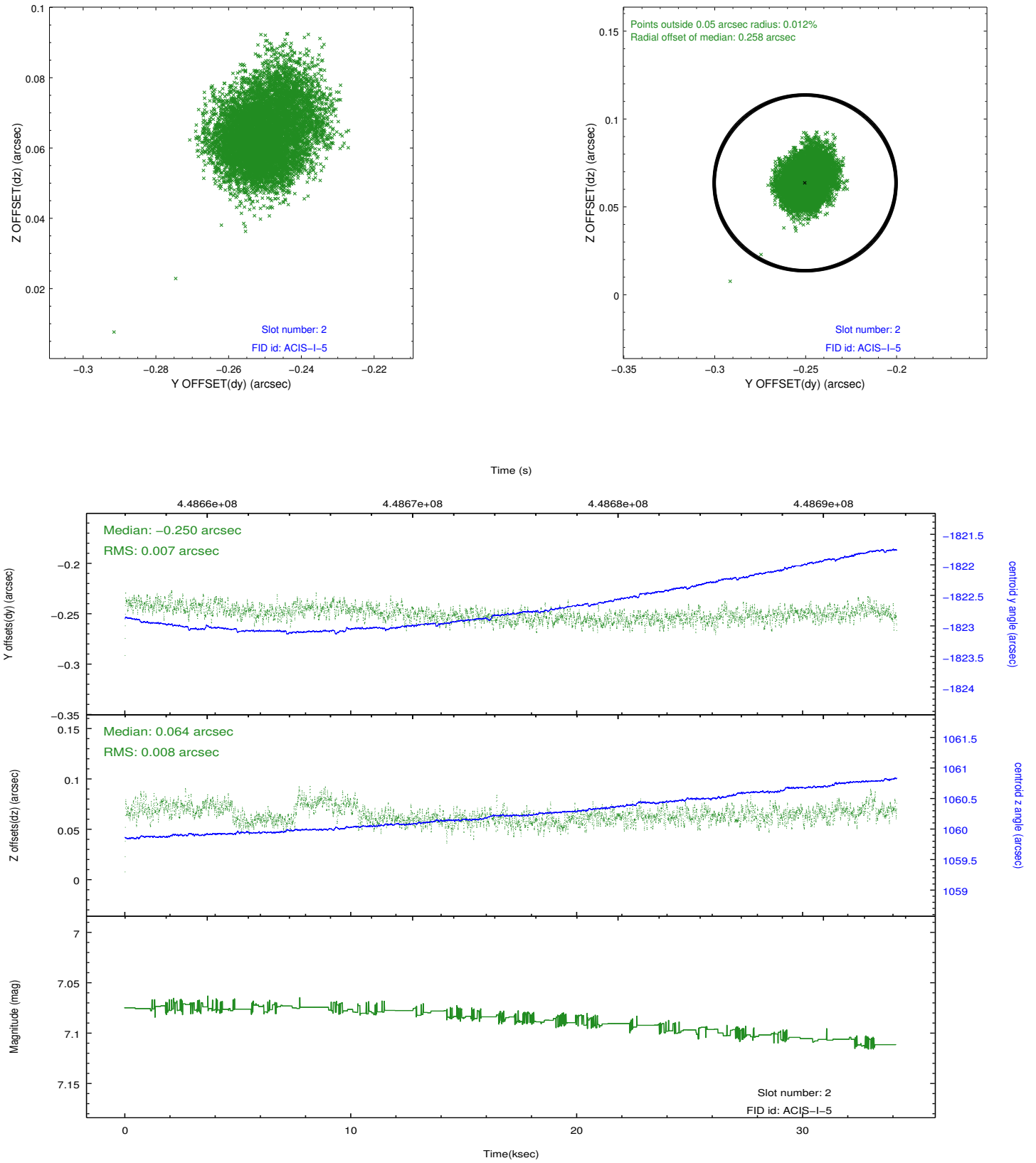
2.5.1 Slot 0



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)	2012.03.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	34.081359221935

A.2 Comments

Optional chip S3 not used.