

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 10264 - L2 Version 2
Chandra X-Ray Center

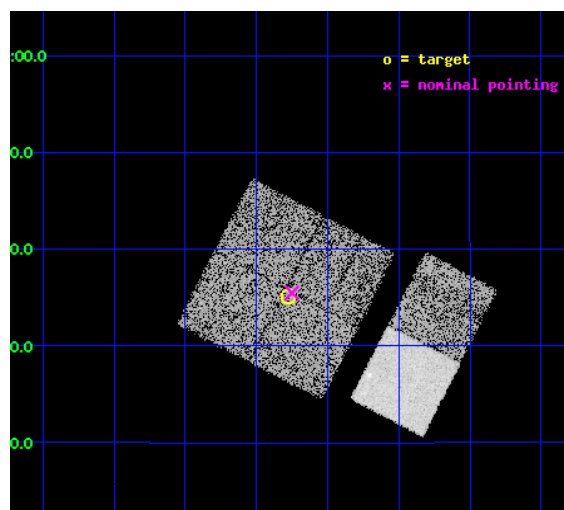
L2 Processing Date : Jun 9 2012

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1 Front

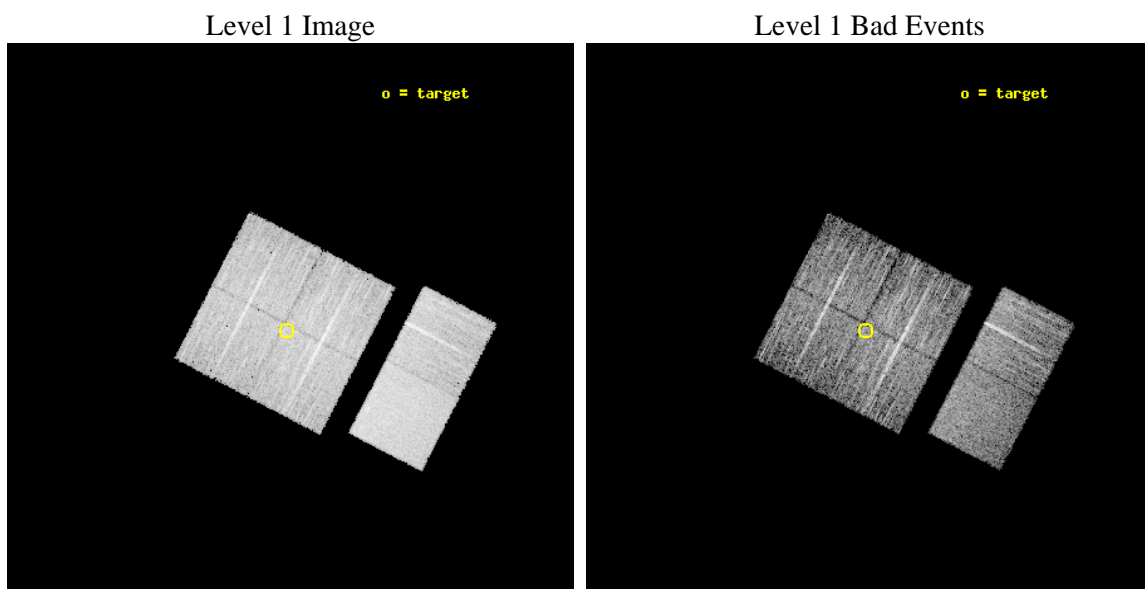
seq_num	701807	Sequence number
obs_id	10264	Observation id
title	Zeroing in on the sources of Ultrahigh Energy Cosmic Rays	Proposal
observer	Prof. Glennys Farrar	Principal investigator
object	NGC 7591	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	349.568333	Observer's specified target RA [deg]
dec_targ	6.585667	Observer's specified target Dec [deg]
ra_nom	349.56271828948	Nominal RA [deg]
dec_nom	6.5913259482844	Nominal Dec [deg]
roll_nom	117.37816828949	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4946.1708090901	Sum of GTIs [s]
livetime	4883.5394160789	Livetime [s]
ontime0	4946.0476890802	Sum of GTIs [s]
ontime1	4946.0887290835	Sum of GTIs [s]
ontime2	4946.1297690868	Sum of GTIs [s]
ontime3	4946.1708090901	Sum of GTIs [s]
ontime6	4946.2528890967	Sum of GTIs [s]
ontime7	4946.2118490934	Sum of GTIs [s]
l2events	57237	Number of level 2 events



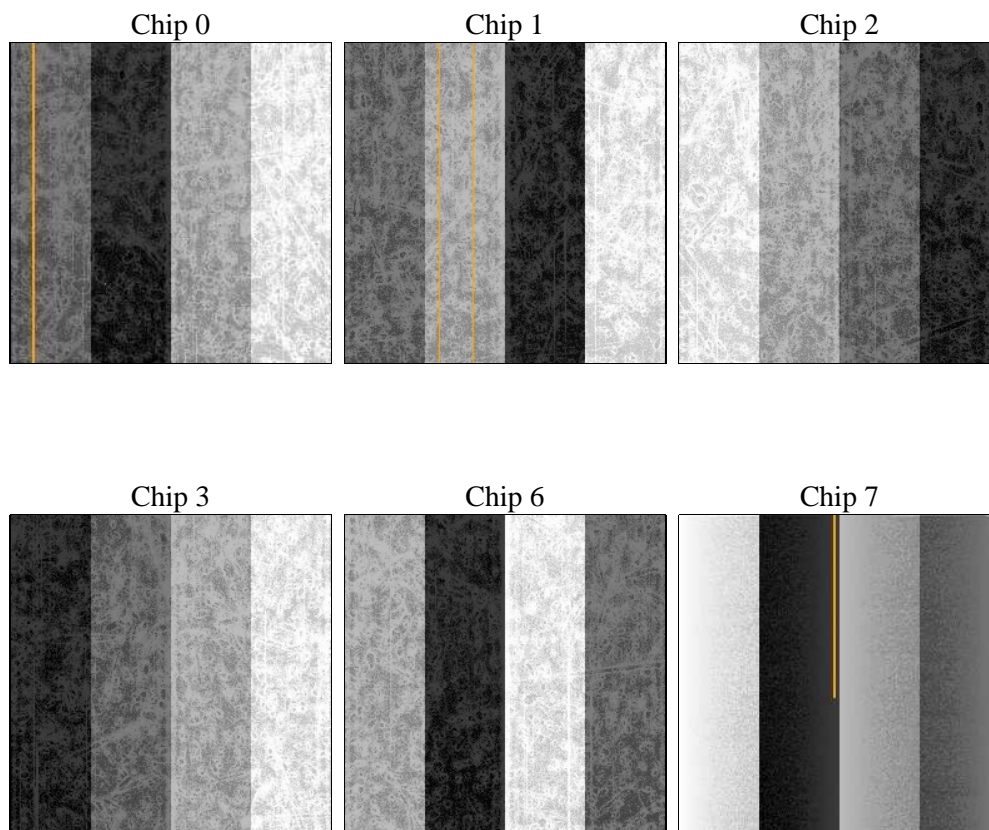
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4946.1708090901	Sum of GTIs [s]
caldsver	4.4.10	 	ontime0	4946.0476890802	Sum of GTIs [s]
date	2012-06-09T21:47:45	Date and time of file creation	ontime1	4946.0887290835	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	4946.1297690868	Sum of GTIs [s]
			ontime3	4946.1708090901	Sum of GTIs [s]
			ontime6	4946.2528890967	Sum of GTIs [s]
			ontime7	4946.2118490934	Sum of GTIs [s]
			l1events	327365	Number of level 1 events

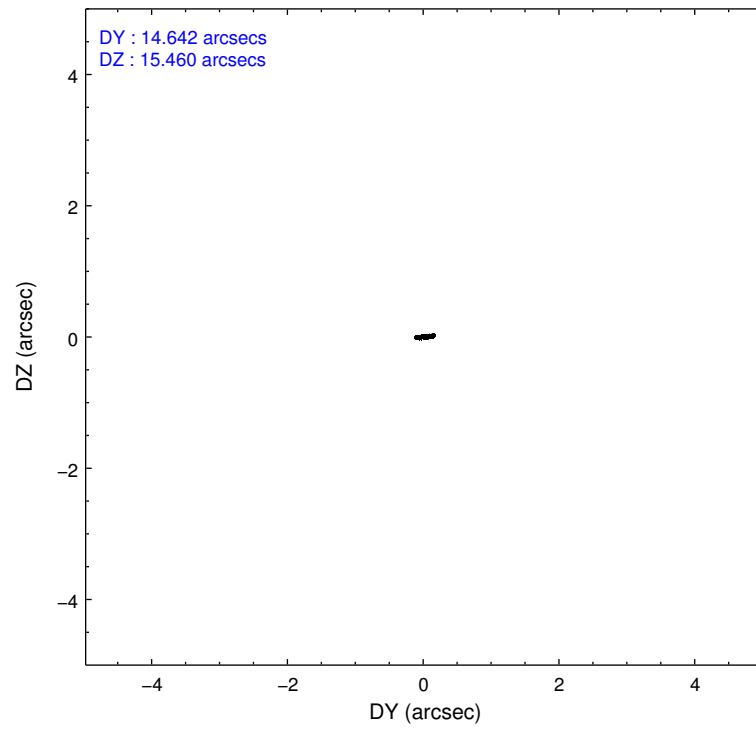
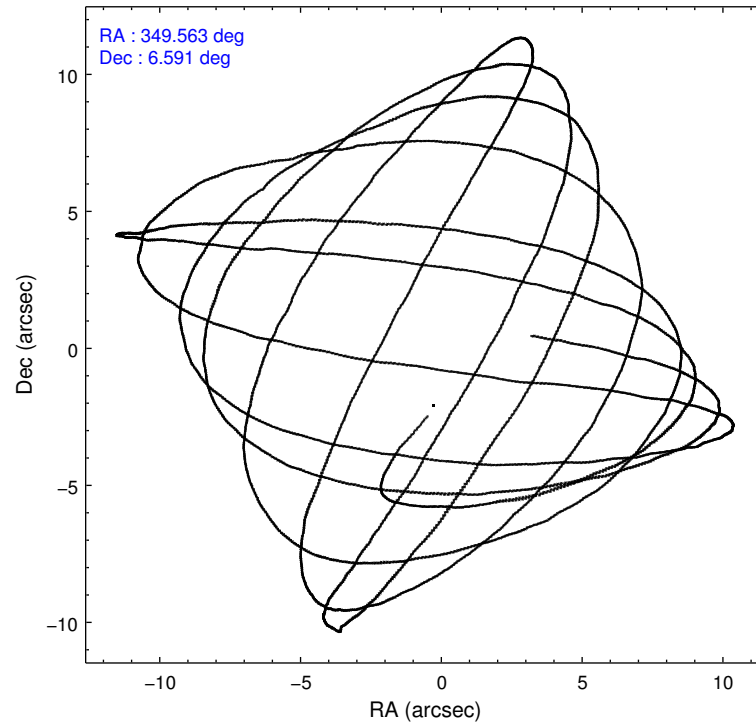
2.1.4 Events

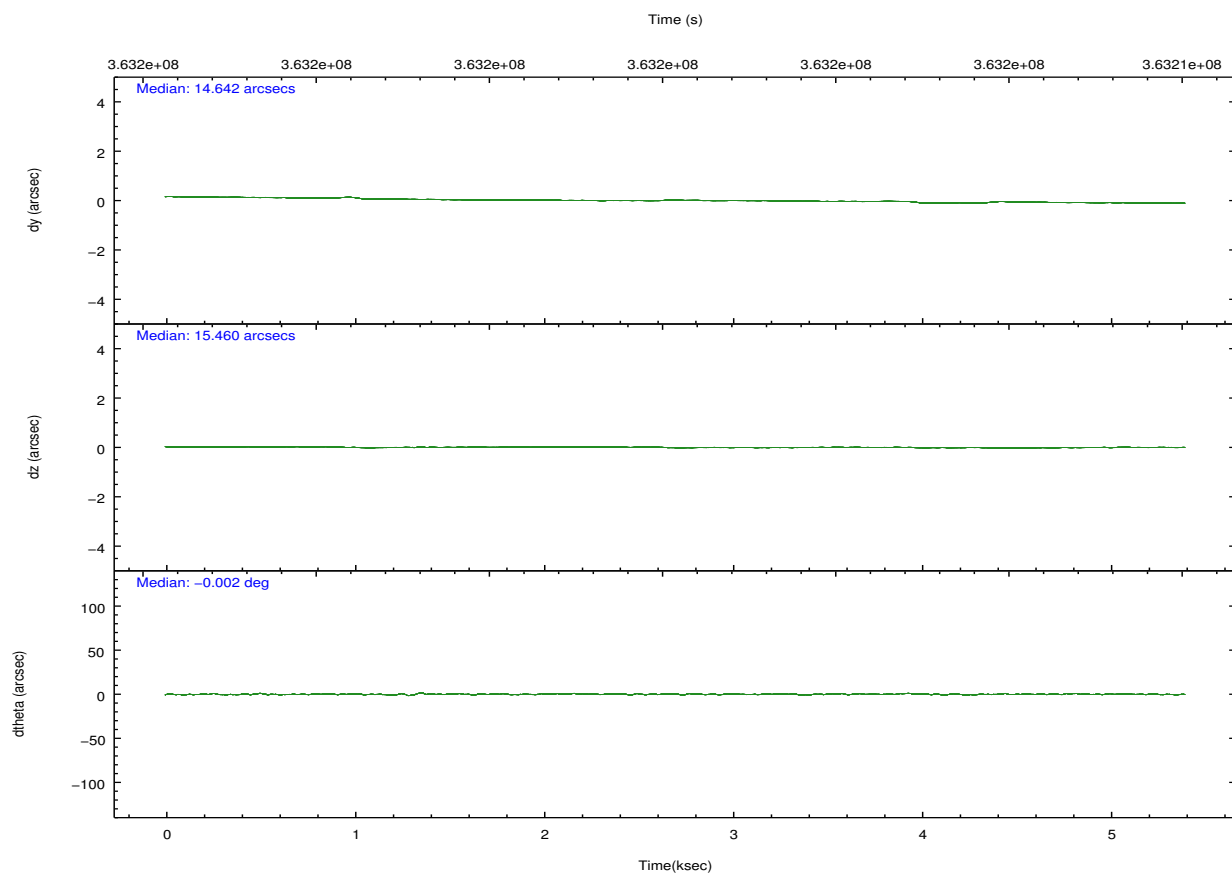
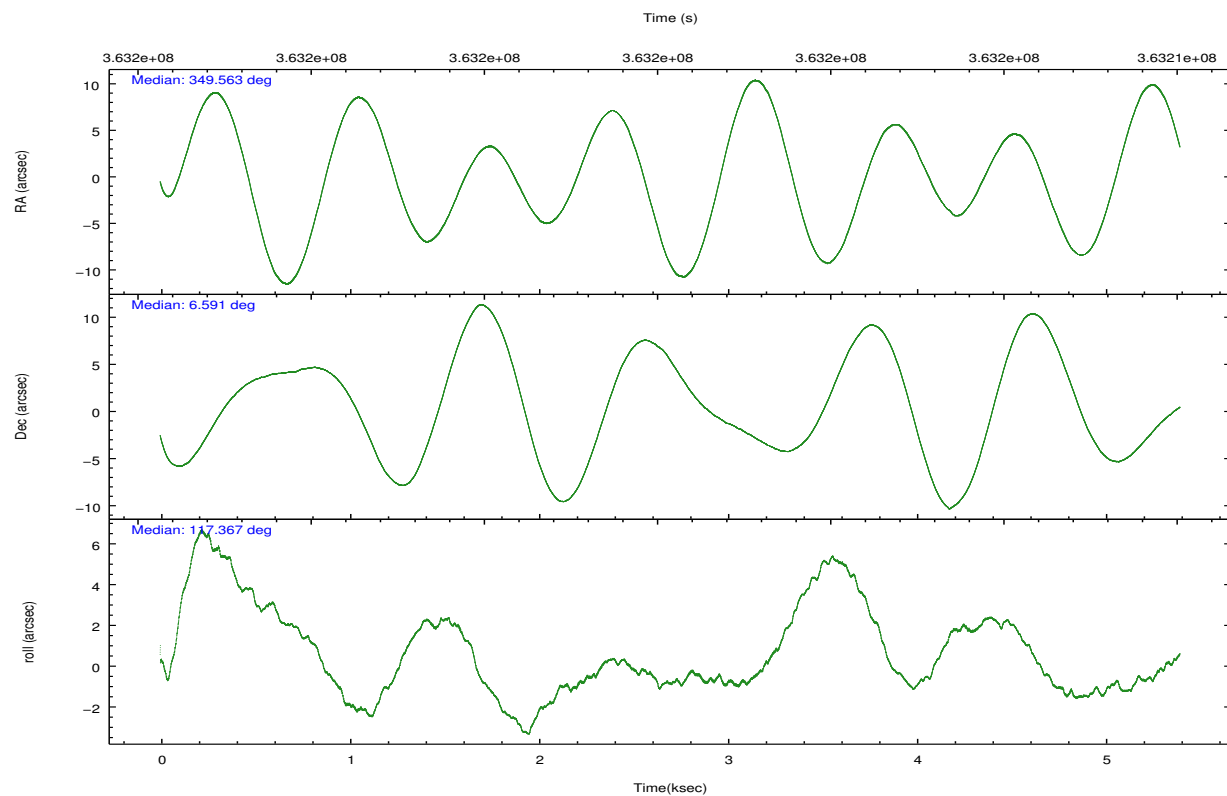
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	48099	47512	52035	51432	54875	73412	grade 0 events	2722	2567	2551	2775	2473	2668
rejected events	41737	40799	46062	45075	48455	43068		5%	5%	4%	5%	4%	3%
rejected %	86%	85%	88%	87%	88%	58%	grade 1 events	19	25	32	34	27	66
								0%	0%	0%	0%	0%	0%
							grade 2 events	1413	1584	1338	1304	1472	6285
								2%	3%	2%	2%	2%	8%
							grade 3 events	602	628	525	602	592	2666
								1%	1%	1%	1%	1%	3%
							grade 4 events	529	619	545	565	533	2464
								1%	1%	1%	1%	0%	3%
							grade 5 events	2163	2408	2171	2459	2657	6749
								4%	5%	4%	4%	4%	9%
							grade 6 events	1099	1321	1022	1122	1357	16301
								2%	2%	1%	2%	2%	22%
							grade 7 events	39552	38360	43851	42571	45764	36213
								82%	80%	84%	82%	83%	49%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	349.585986	349.5627182894791	CCD I2 on	Y	Y
[deg] Pointing Dec	6.576680	6.591325948284396	CCD I3 on	Y	Y
[deg] Pointing Roll	117.166815	117.3781682894889	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	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5899487761303	CCD S3 on	O2	Y
[mm] SIM translation stage offset	0	-0.002504226799430853	CCD S4 on	N	N
[s] Observation start time (MET)	363200773.184000	363199703.07047	CCD S5 on	N	N
Observation start date	2009-07-05T17:05:07	2009-07-05T16:48:23	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	363205773.184000	363206342.5083	On-chip summing requested	N	N
Observation end date	2009-07-05T18:28:27	2009-07-05T18:39:02	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



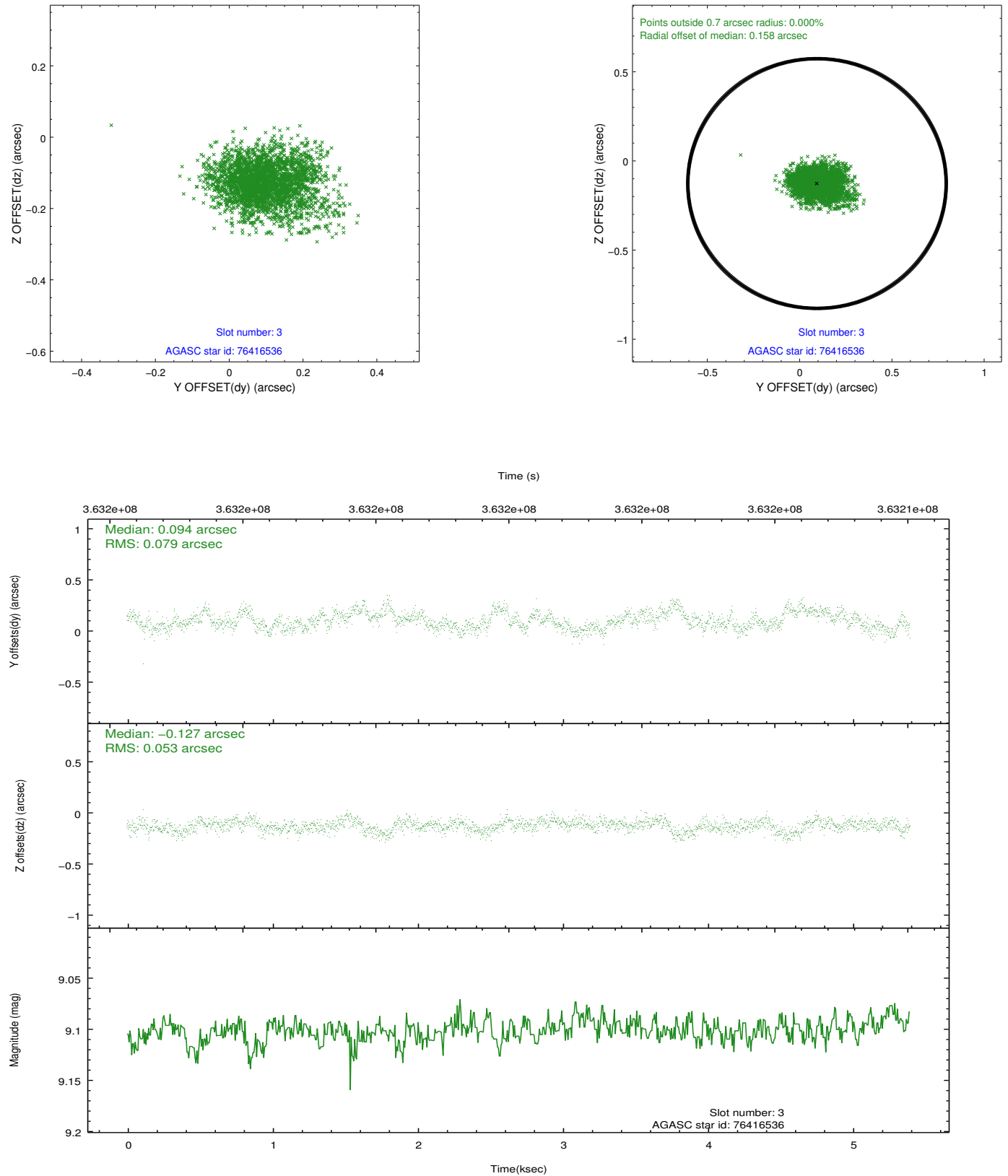


Slot Statistics

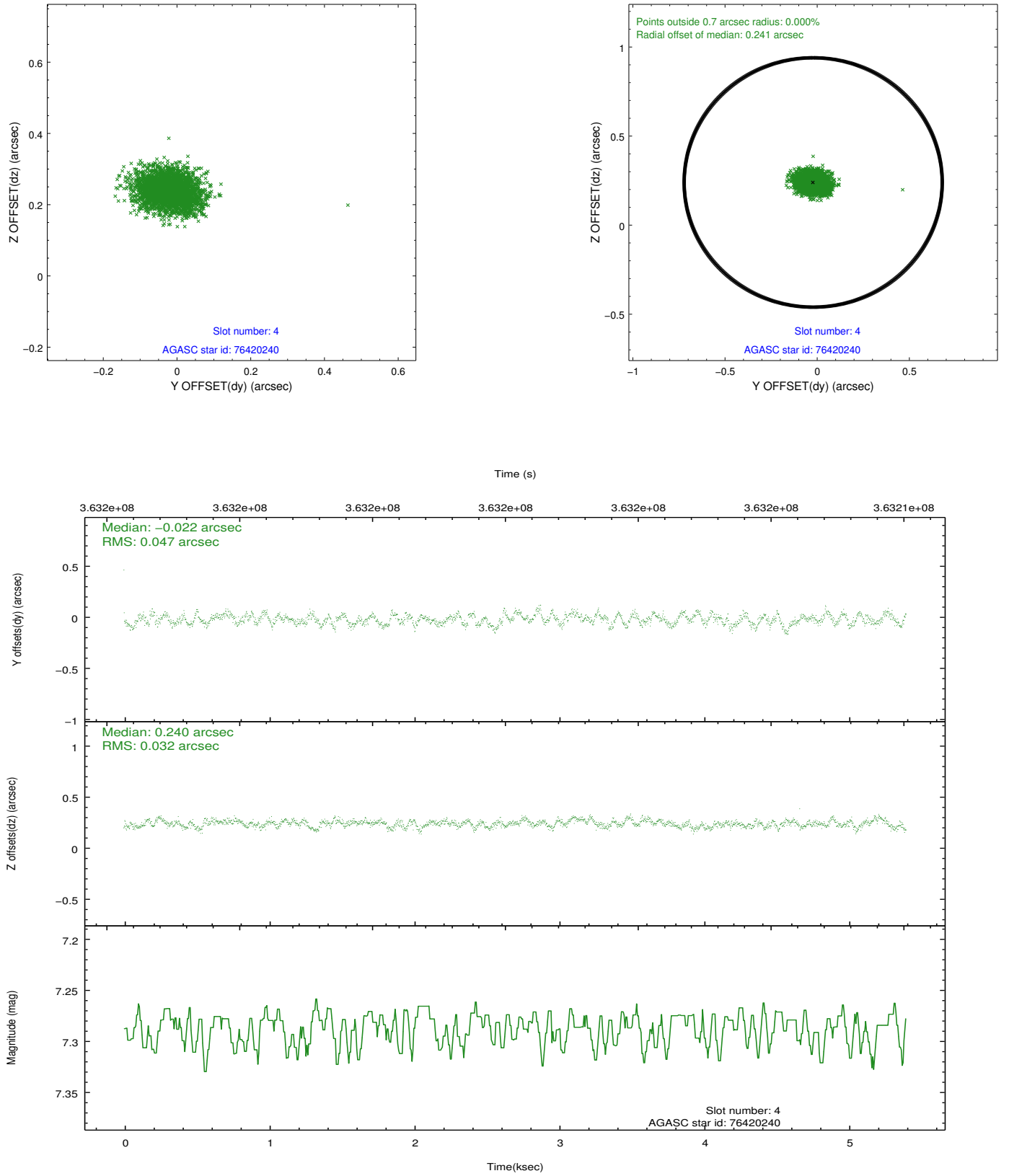
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.10	1317	0.049	-0.032	0.006	0.010	0.000000	0.000000	924.87	-839.05
1	FID	ACIS-I-5	7.10	1317	-0.231	0.044	0.006	0.009	0.000000	0.000000	-1822.90	1057.95
2	FID	ACIS-I-6	7.11	1317	0.090	0.058	0.007	0.011	0.000000	0.000000	389.24	1703.73
3	GUIDE	76416536	9.10	2633	0.094	-0.127	0.100	0.168	348.882409	6.803326	1876.34	1864.66
4	GUIDE	76420240	7.29	2634	-0.022	0.240	0.060	0.097	349.834746	7.214951	1640.18	-1838.83
5	GUIDE	76420752	8.85	2633	-0.048	-0.120	0.071	0.114	349.391064	6.530958	173.14	694.71
6	GUIDE	76422136	8.32	2634	-0.093	-0.302	0.066	0.104	349.081394	6.588986	864.54	1585.10
7	GUIDE	76551232	8.02	2632	0.070	0.308	0.103	0.157	350.076046	6.872411	150.27	-2043.21

2.4 Star Slots

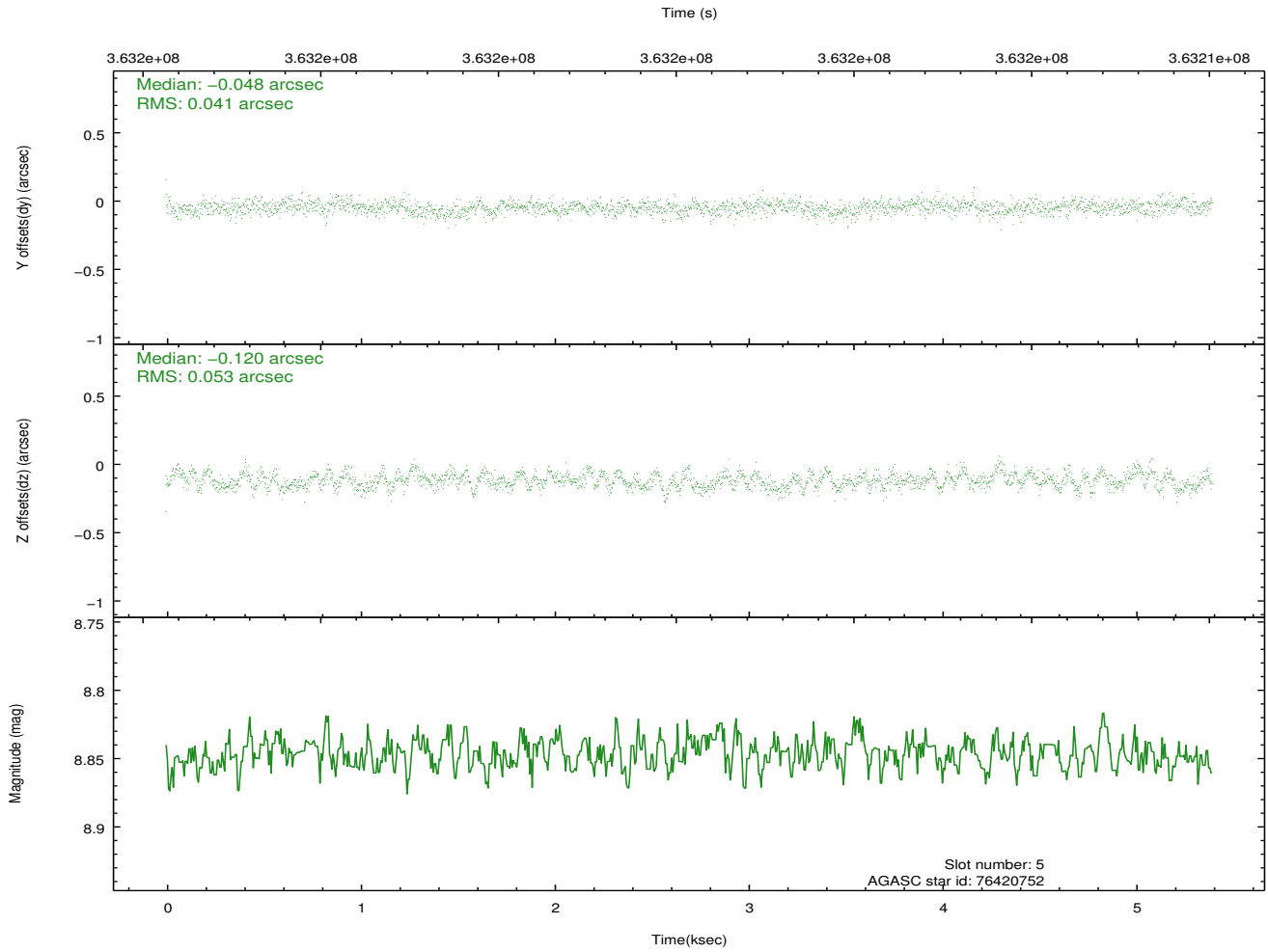
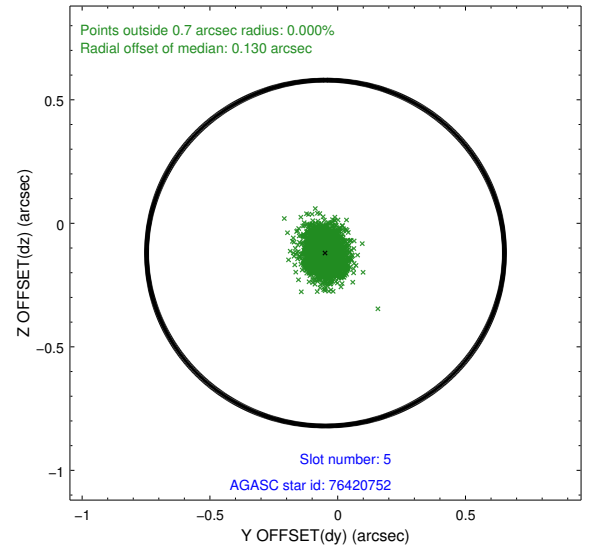
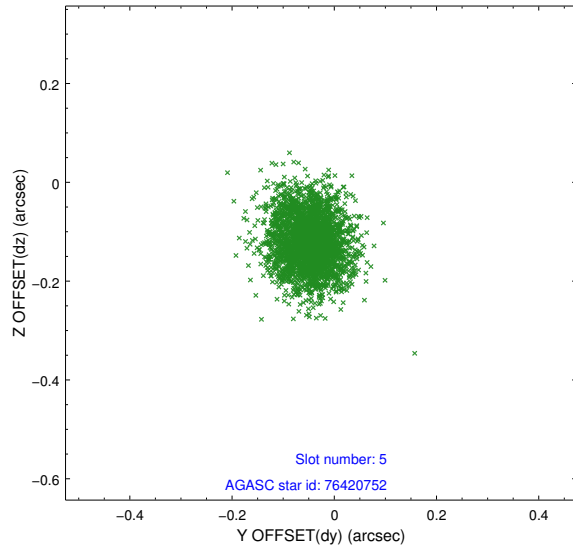
2.4.1 Slot 3



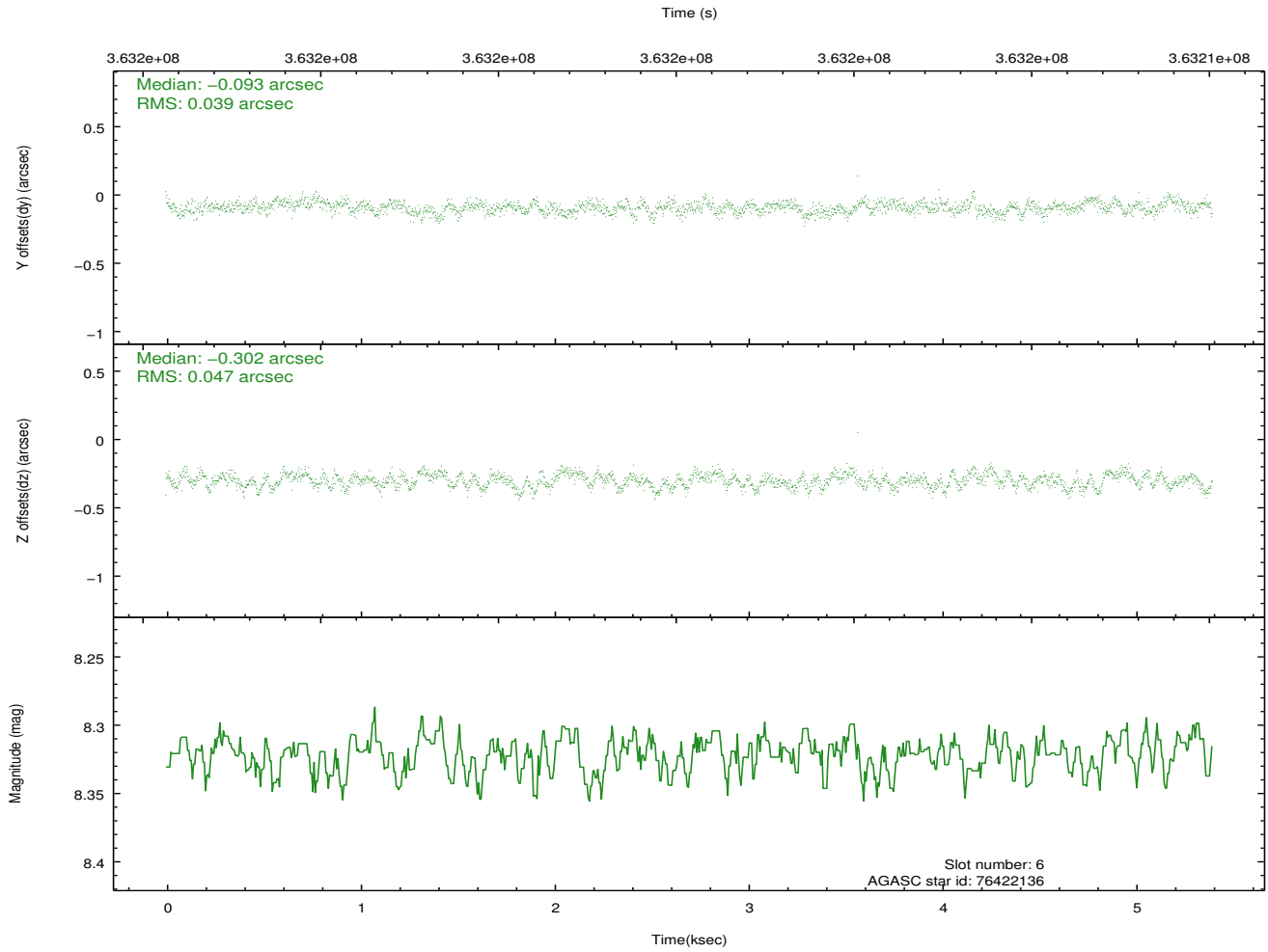
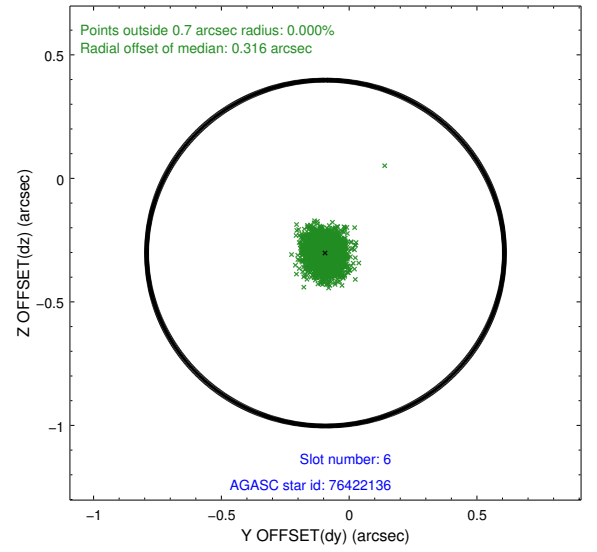
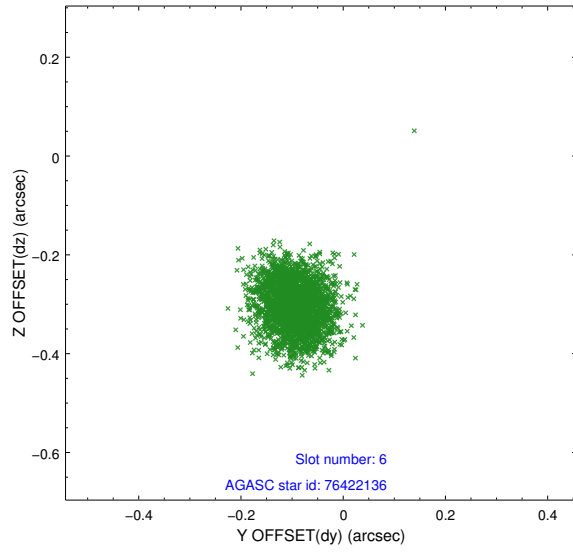
2.4.2 Slot 4



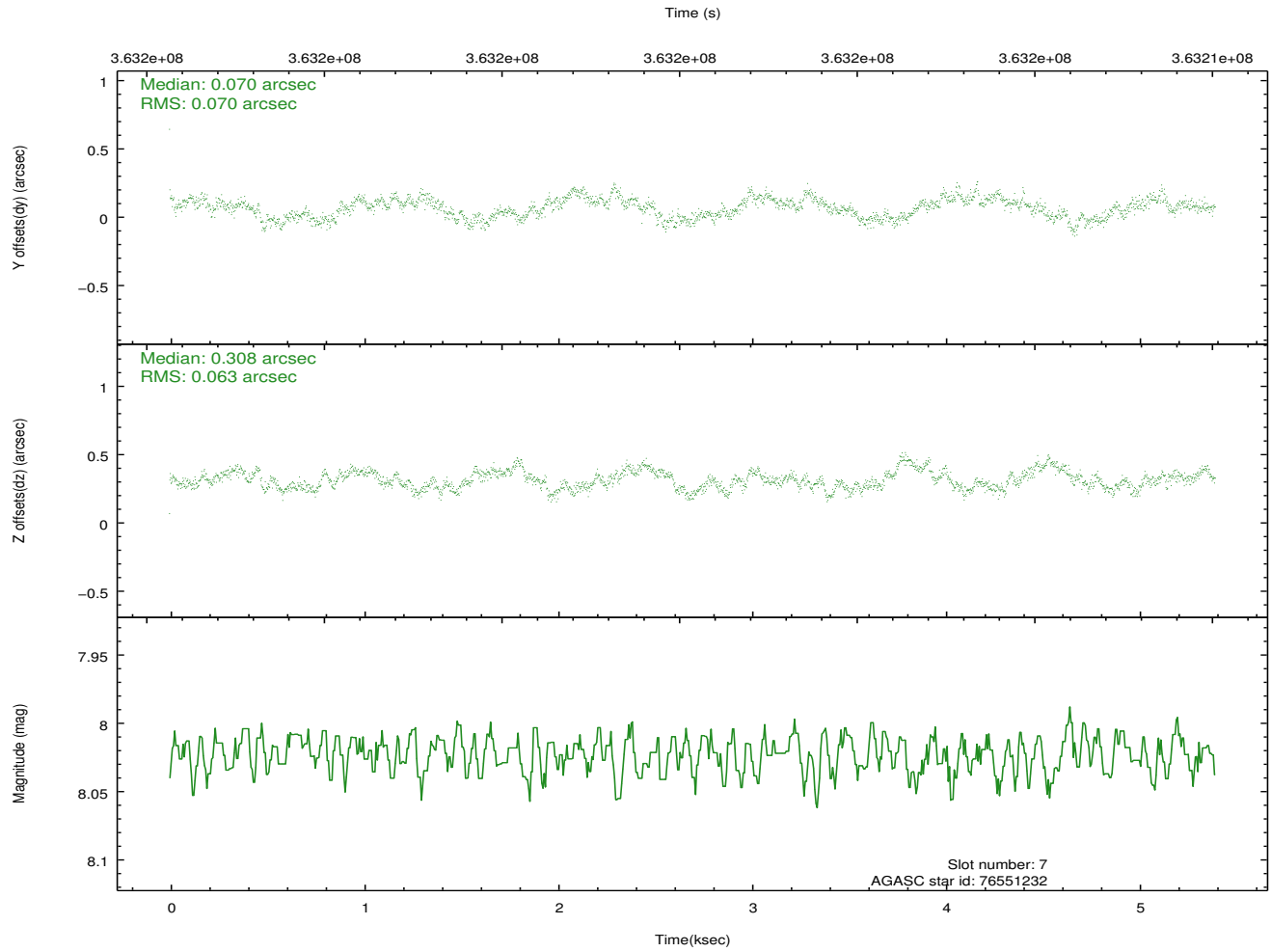
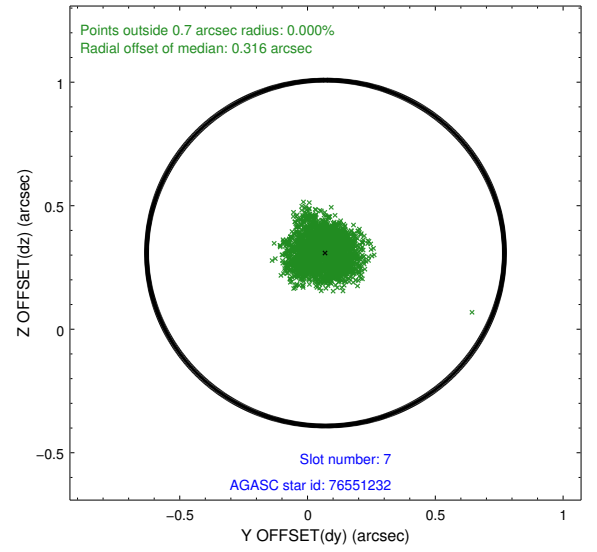
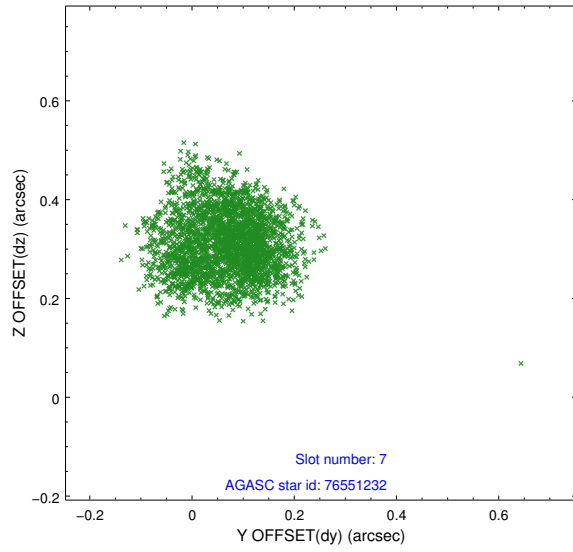
2.4.3 Slot 5



2.4.4 Slot 6

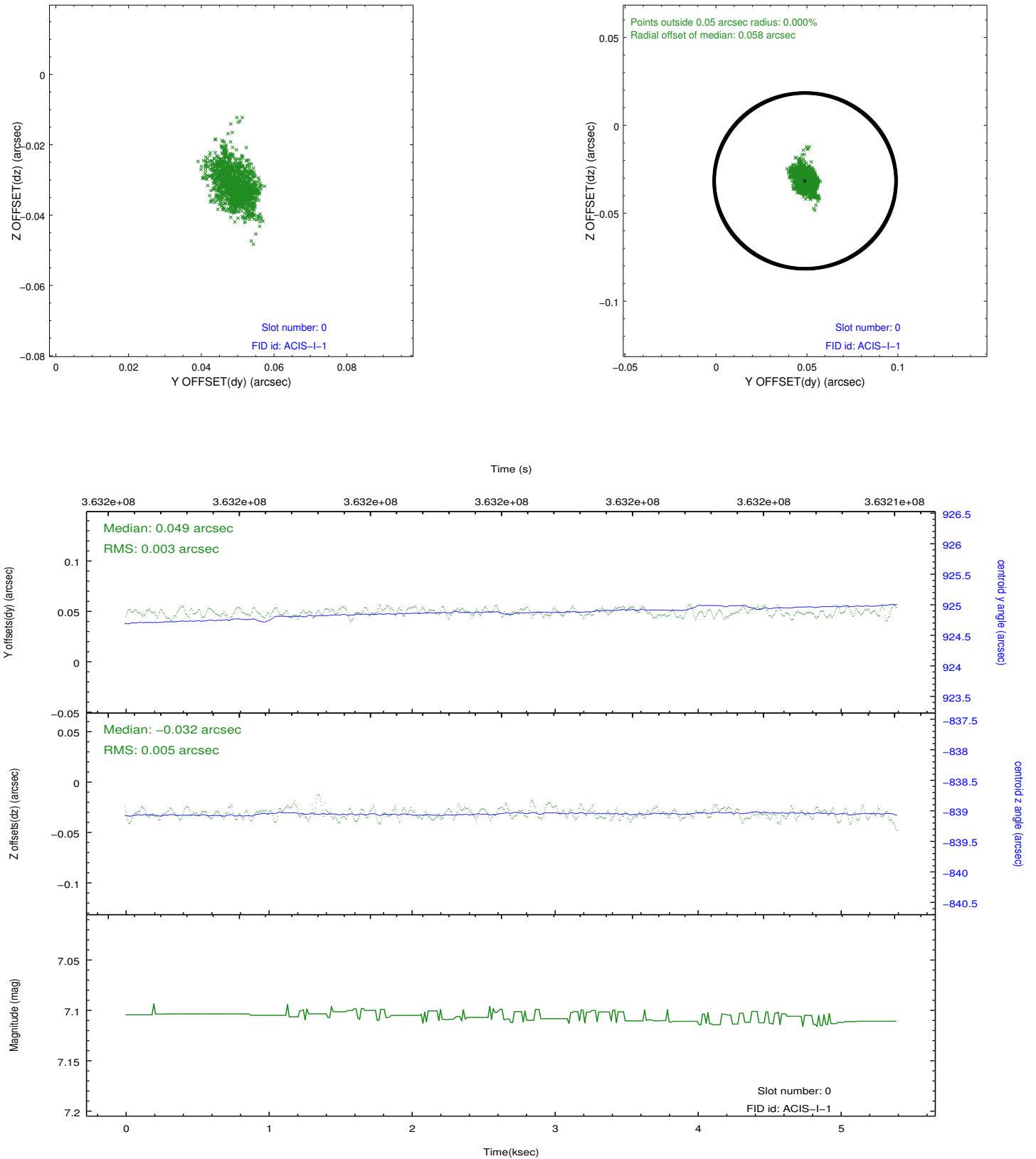


2.4.5 Slot 7

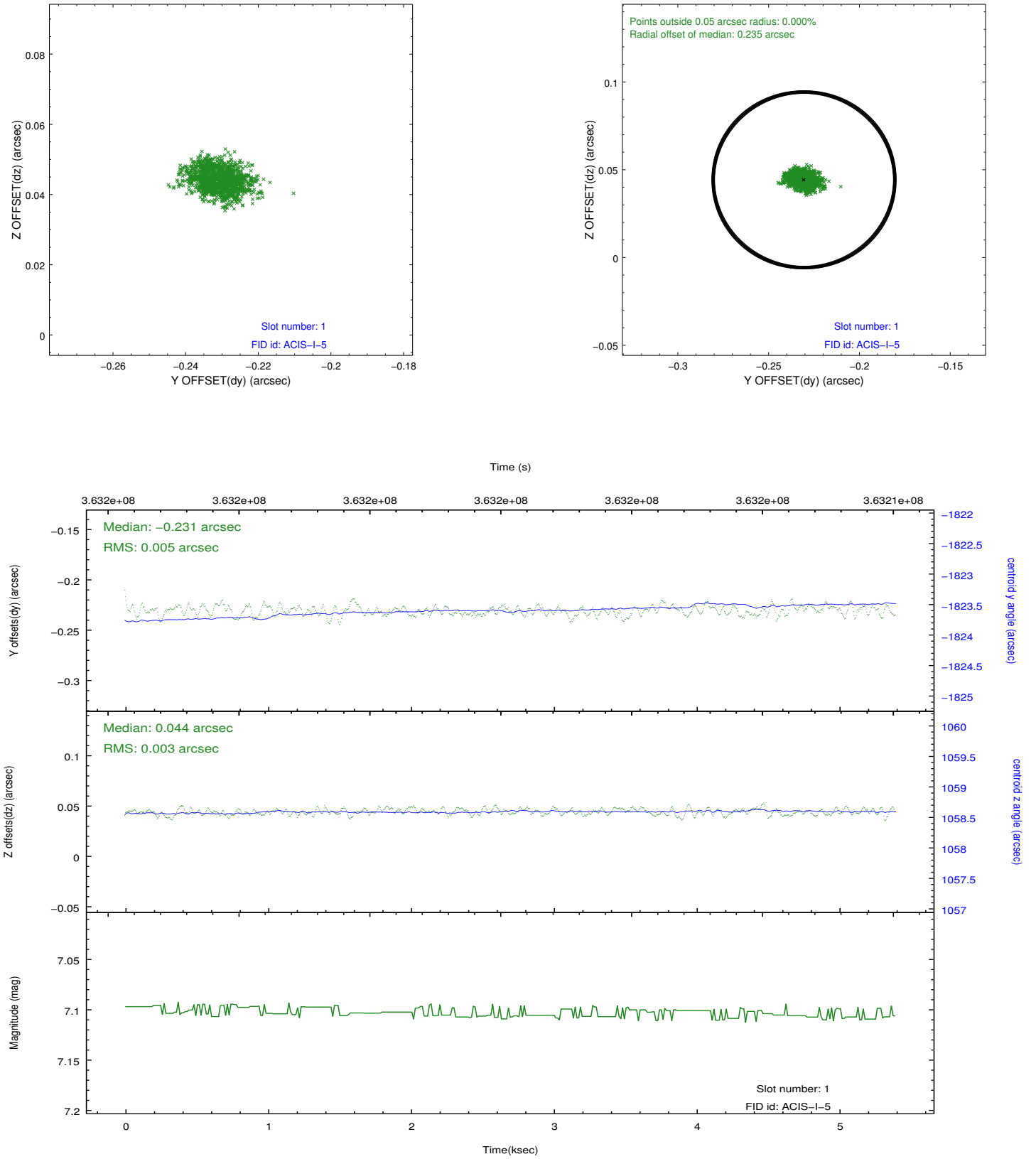


2.5 FID Slots

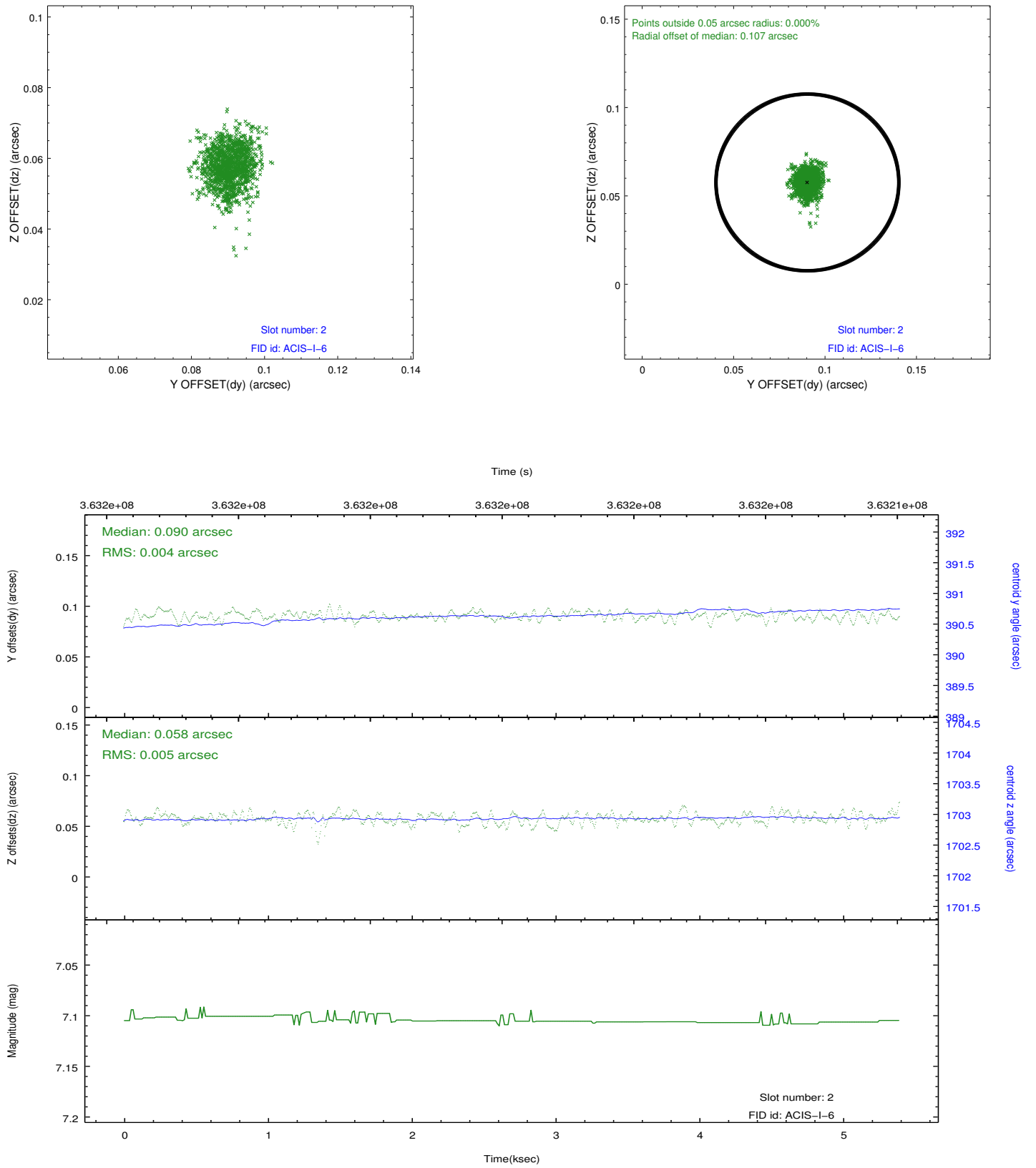
2.5.1 Slot 0



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)	2012.06.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.94719998

A.2 Comments