

V&V Reference Report

L2 ASCDS Version : 7.6.8

Observation 3902 - L2 Version 001
Chandra X-Ray Center

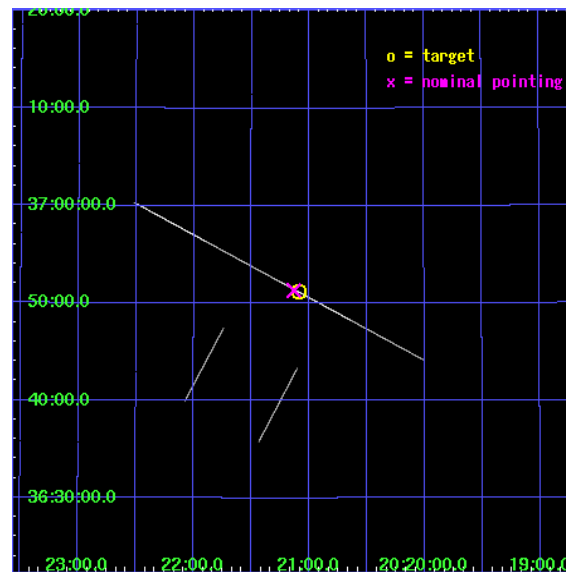
L2 Processing Date : Jul 26 2006

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1 Front

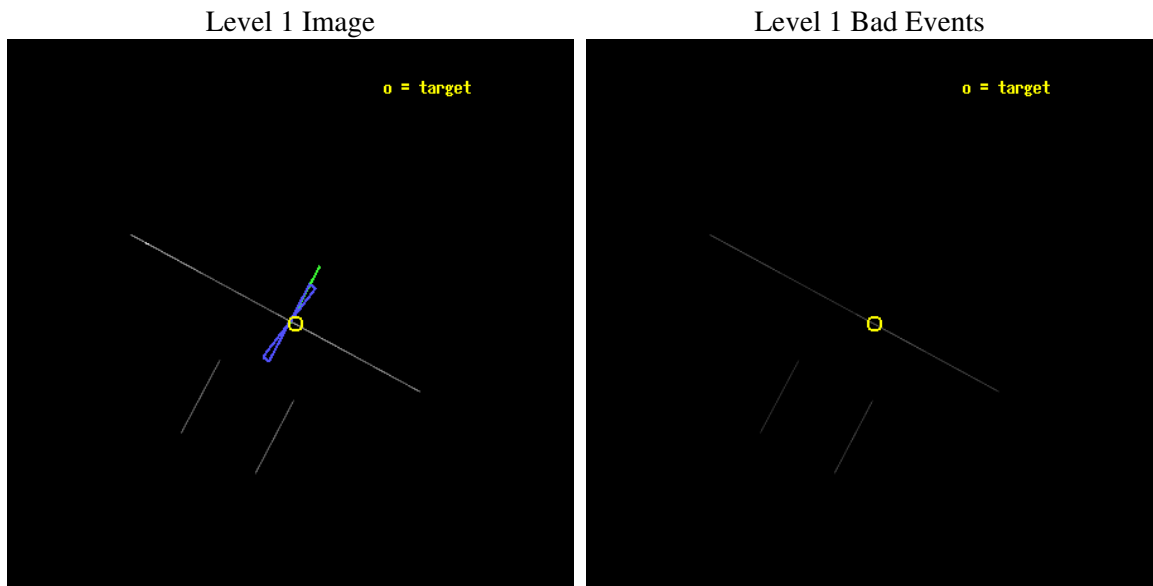
seq_num	500381
obs_id	3902
title	PSR J2021+3651: A GAMMA-RAY PULSAR AT THE EDGE OF THE GALAXY?
observer	Dr. Mallory Roberts
object	PSR J2021+3651
ra_targ	305.271667
dec_targ	36.852333
ra_nom	305.28313891389
dec_nom	36.855321534128
roll_nom	28.149743553305
revision	3
ontime	20764.25
livetime	20683.139648438
ontime2	20764.25
ontime3	20764.25
ontime5	20764.25
ontime6	20764.25
ontime7	20764.25
ontime8	20764.25
l2events	249551



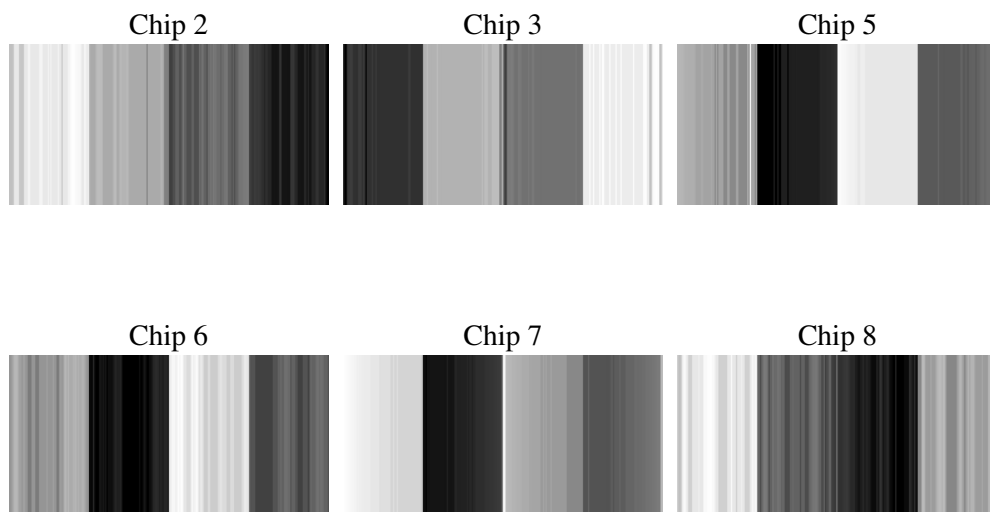
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0
ascdsver	7.6.8
caldbver	3.2.2
date	2006-07-26T10:07:12
revision	3

sched_exp_time	19700.000000
ontime	20767.09345296
ontime2	20767.105134577
ontime3	20767.052588075
ontime5	20767.093497038
ontime6	20767.093441308
ontime7	20767.09345296
ontime8	20767.093427867
l1events	416739

2.1.4 Events

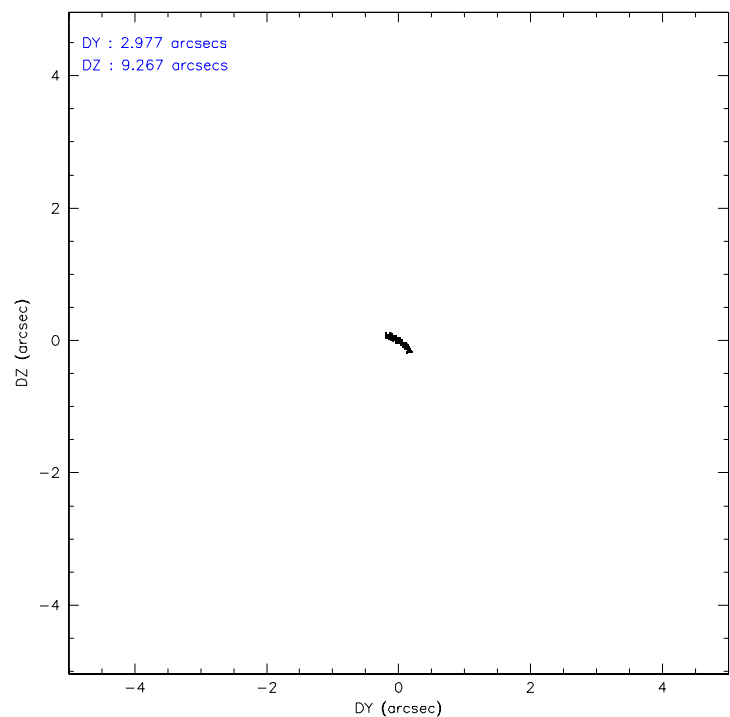
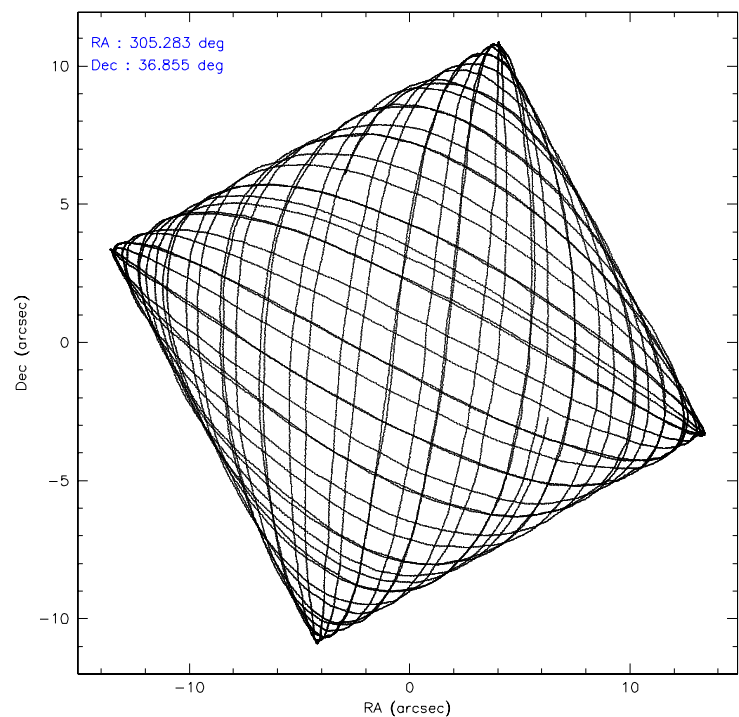
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	26766	28361	176839	33471	94375	56927
rejected events	4767	6974	10206	5626	13188	7894
rejected %	17%	24%	5%	16%	13%	13%

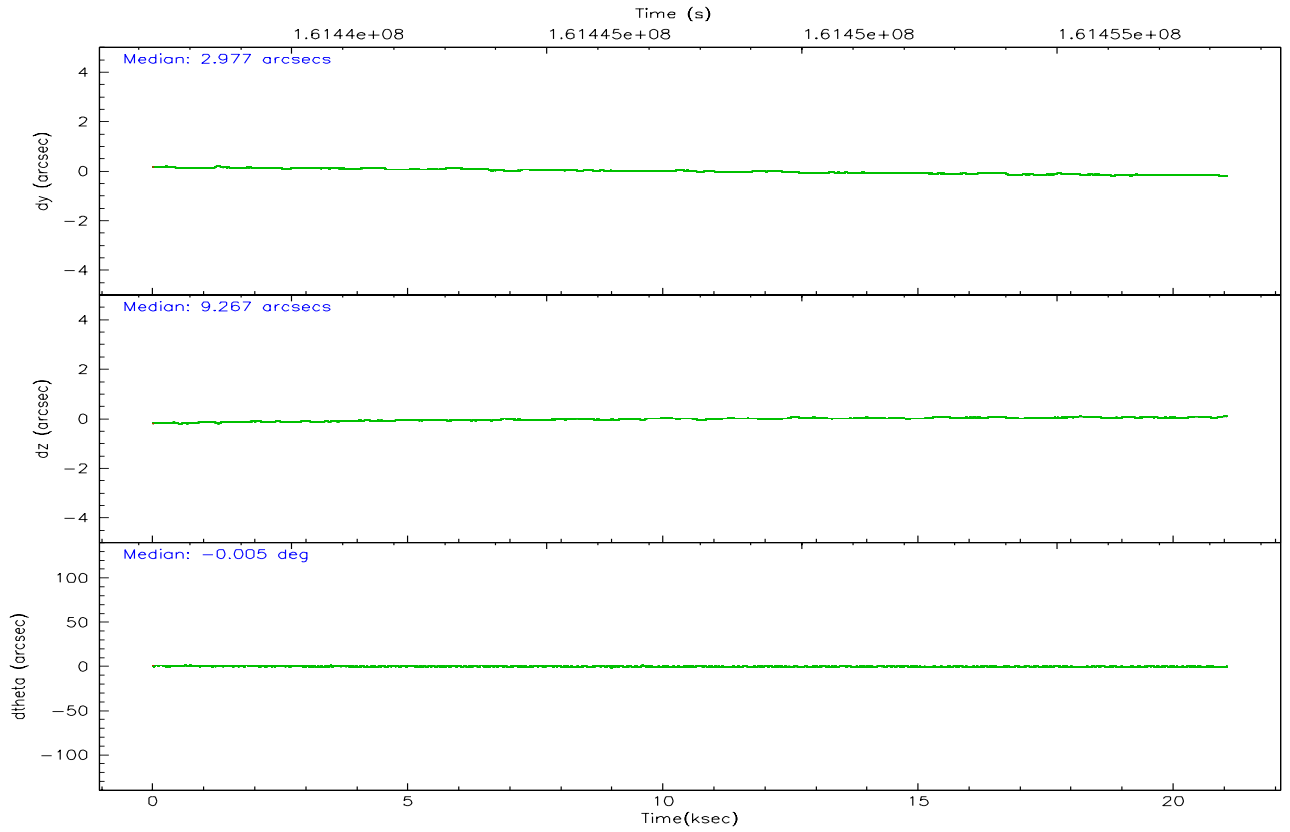
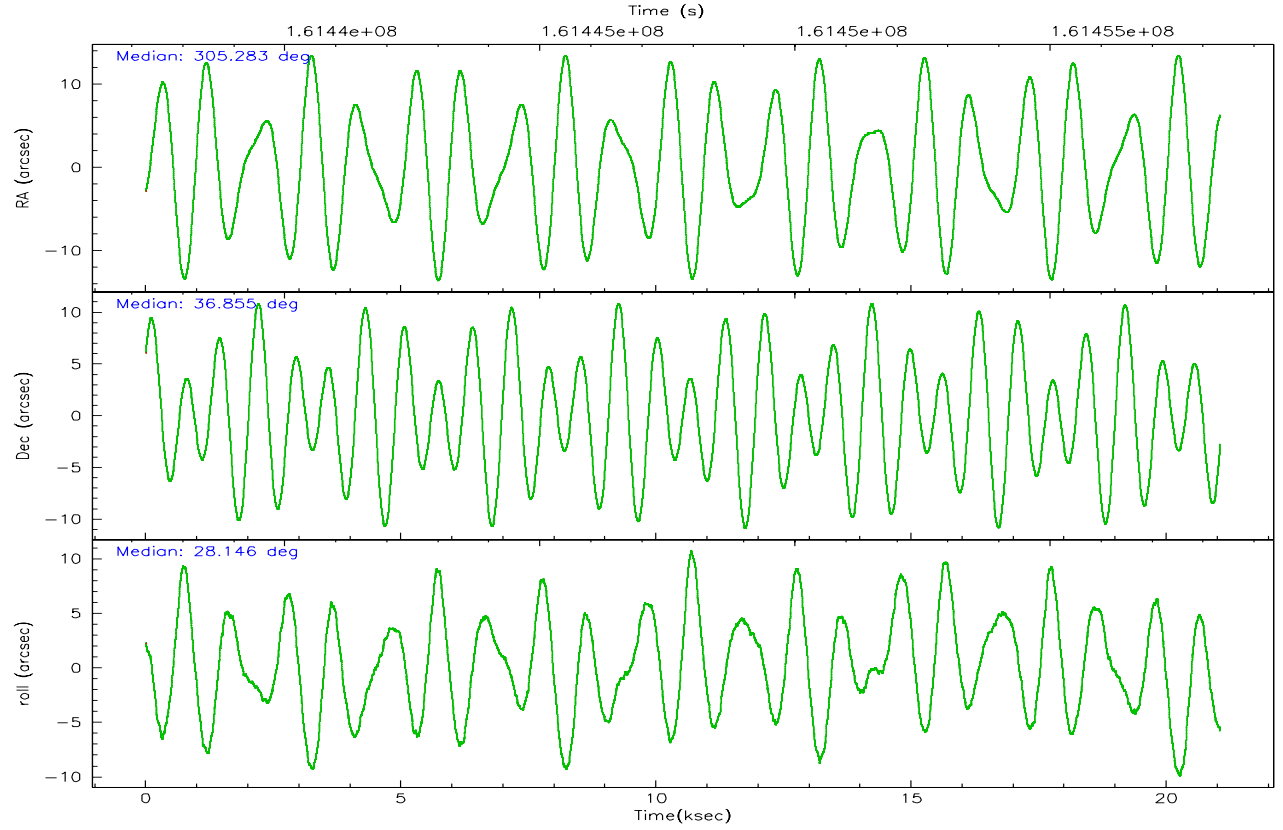
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	3245	2622	63758	3497	6117	9581
	12%	9%	36%	10%	6%	16%
grade 1 events	98	94	133	106	124	206
	0%	0%	0%	0%	0%	0%
grade 2 events	8453	8631	43152	12356	21766	15342
	31%	30%	24%	36%	23%	26%
grade 3 events	2956	2941	2061	3170	3917	5782
	11%	10%	1%	9%	4%	10%
grade 4 events	2963	2443	1976	3016	3845	5724
	11%	8%	1%	9%	4%	10%
grade 5 events	4665	4625	10049	5519	13040	7635
	17%	16%	5%	16%	13%	13%
grade 6 events	4386	4754	55710	5807	45566	12657
	16%	16%	31%	17%	48%	22%
grade 7 events	0	2251	0	0	0	0
	0%	7%	0%	0%	0%	0%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	CC33_FAINT	CC33_FAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	305.265601	305.2831389138876	Alternating exposures requested	N	N
Pointing Dec	36.832001	36.85532153412827	Primary exposure time	0.000000	0
Pointing Roll	28.003637	28.14974355330475			
Roll angle	33.000000	33.000000			
Roll tolerance	5.000000	5.000000			
Roll constraint allows 180D rotation	Y	Y			
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.1400660498719			
SIM translation stage offset (mm)	0	0.00754346686406393			
Observation start time	161438640.184000	161437093.90856			
Observation start date	2003-02-12T12:02:56	2003-02-12T11:38:13			
Observation end time	161458340.184000	161458636.33447			
Observation end date	2003-02-12T17:31:16	2003-02-12T17:37:16			
Read mode	CONTINUOUS	CONTINUOUS			

2.3 Aspect



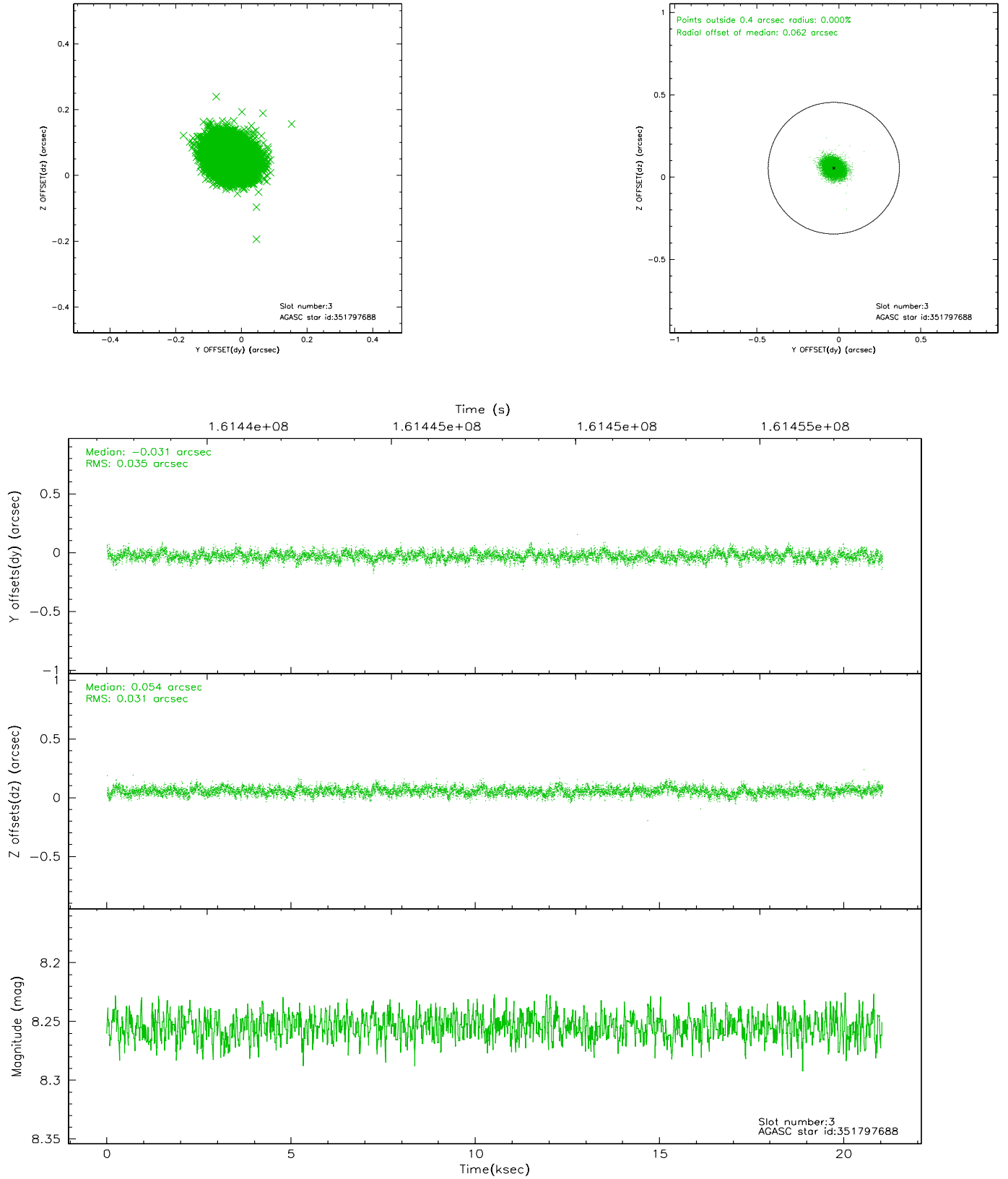


Slot Statistics

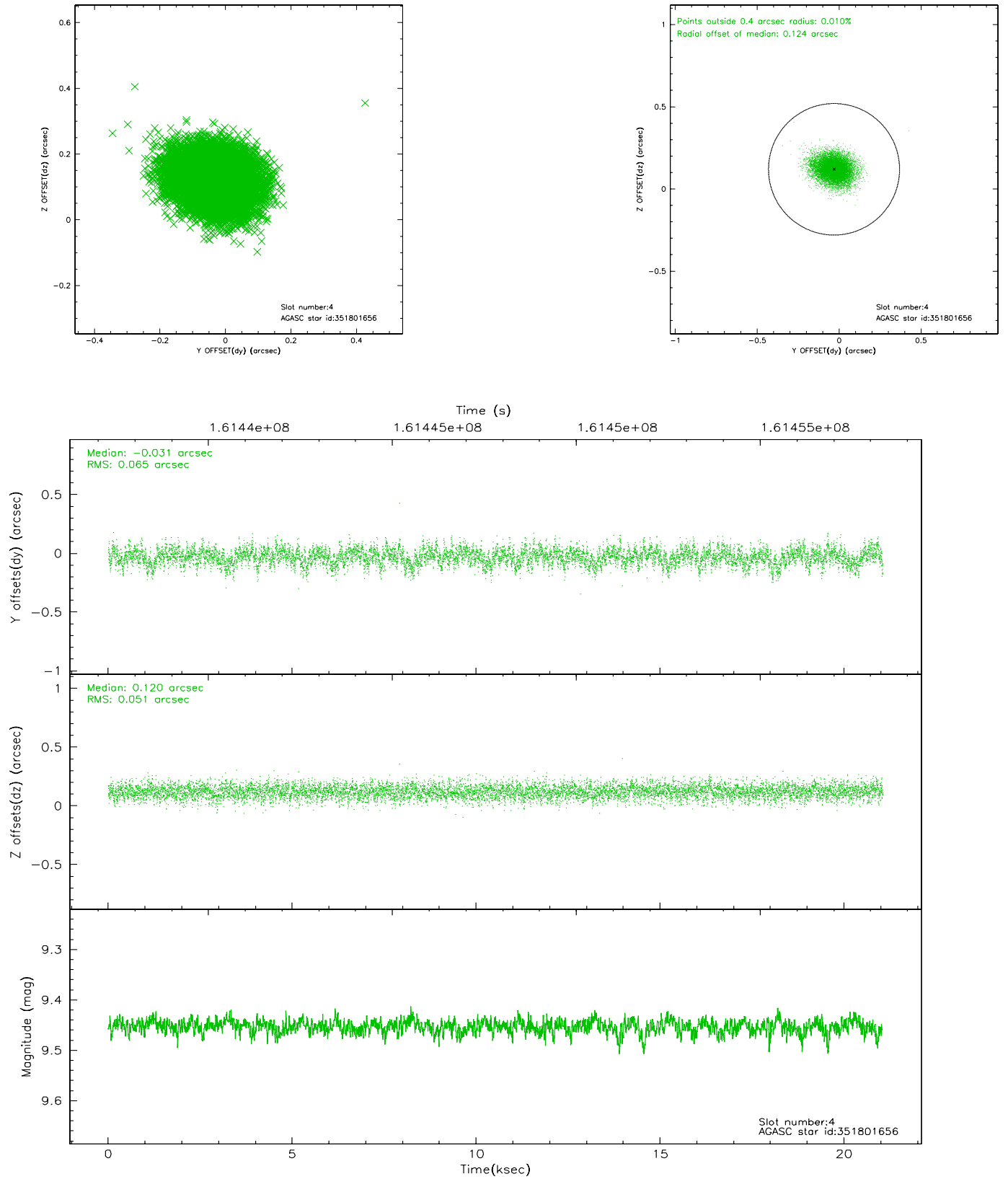
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	5136	-0.025	0.014	0.007	0.011	0.000000	0.000000	-755.61	-1730.47
1	FID	ACIS-S-4	7.20	5136	-0.036	0.008	0.007	0.012	0.000000	0.000000	2157.55	177.87
2	FID	ACIS-S-5	7.24	5134	0.030	-0.014	0.009	0.015	0.000000	0.000000	-1808.21	171.65
3	GUIDE	351797688	8.25	10271	-0.031	0.054	0.049	0.081	305.702978	37.435347	2125.03	1333.57
4	GUIDE	351801656	9.45	10251	-0.031	0.120	0.087	0.145	305.958441	36.522506	1250.50	-1918.10
5	GUIDE	351812608	8.23	10268	0.129	-0.078	0.062	0.098	304.539634	36.570010	-2291.88	159.47
6	GUIDE	351803264	9.13	10269	-0.066	0.043	0.100	0.153	305.048112	36.103142	-1790.25	-2019.05
7	GUIDE	413143680	9.15	10245	0.004	-0.137	0.109	0.172	305.316452	37.600642	1427.24	2374.90

2.4 Star Slots

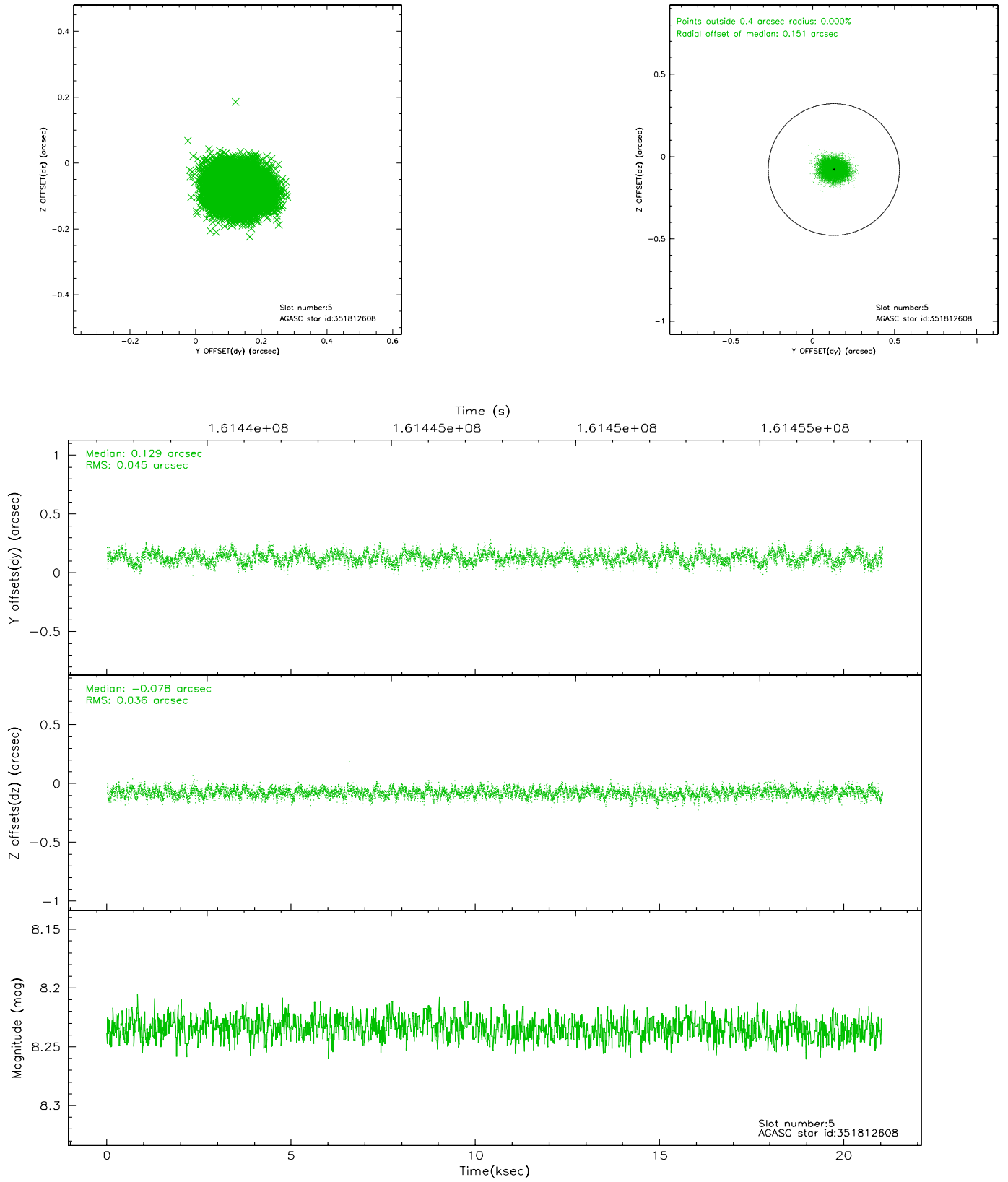
2.4.1 Slot 3



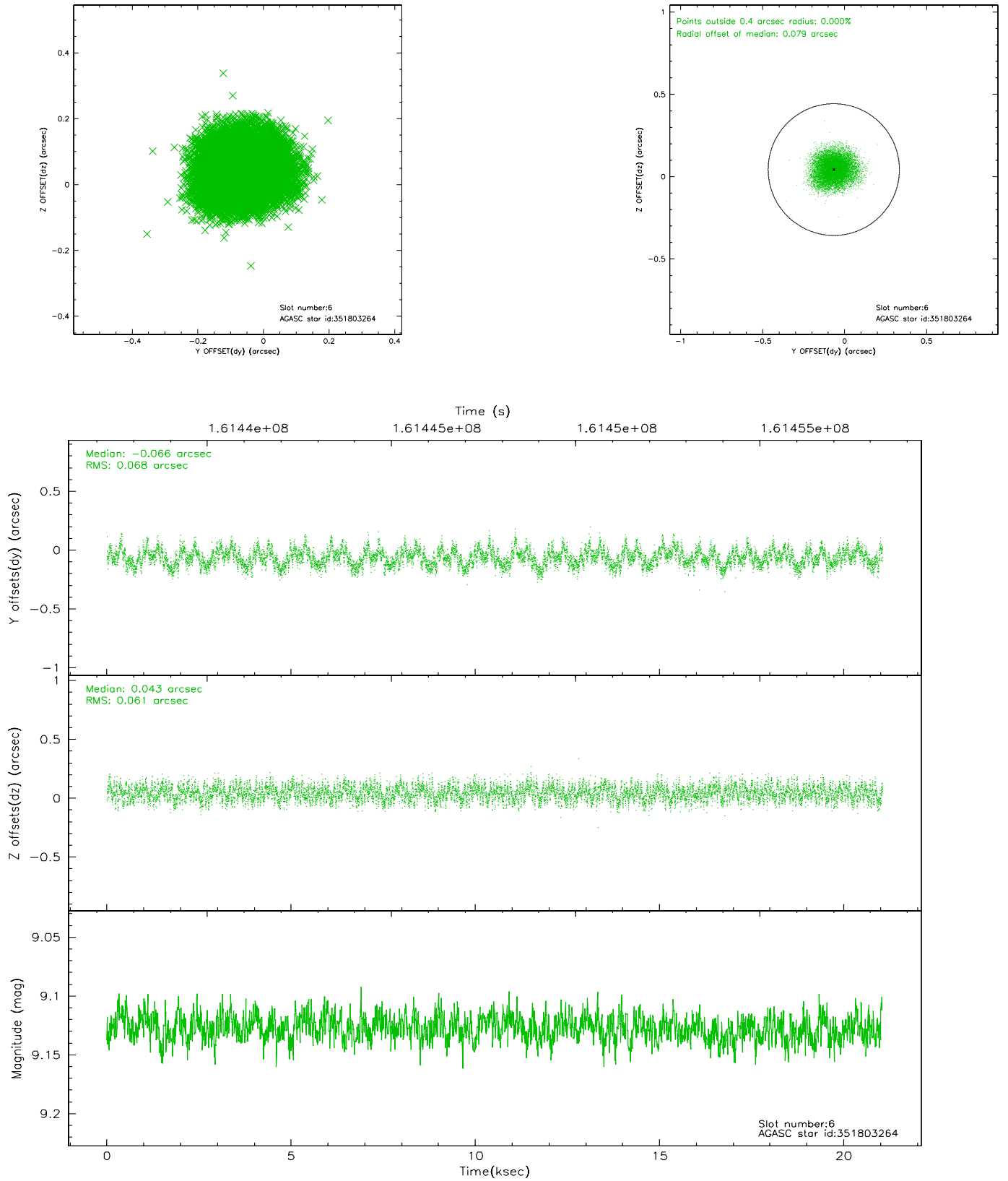
2.4.2 Slot 4



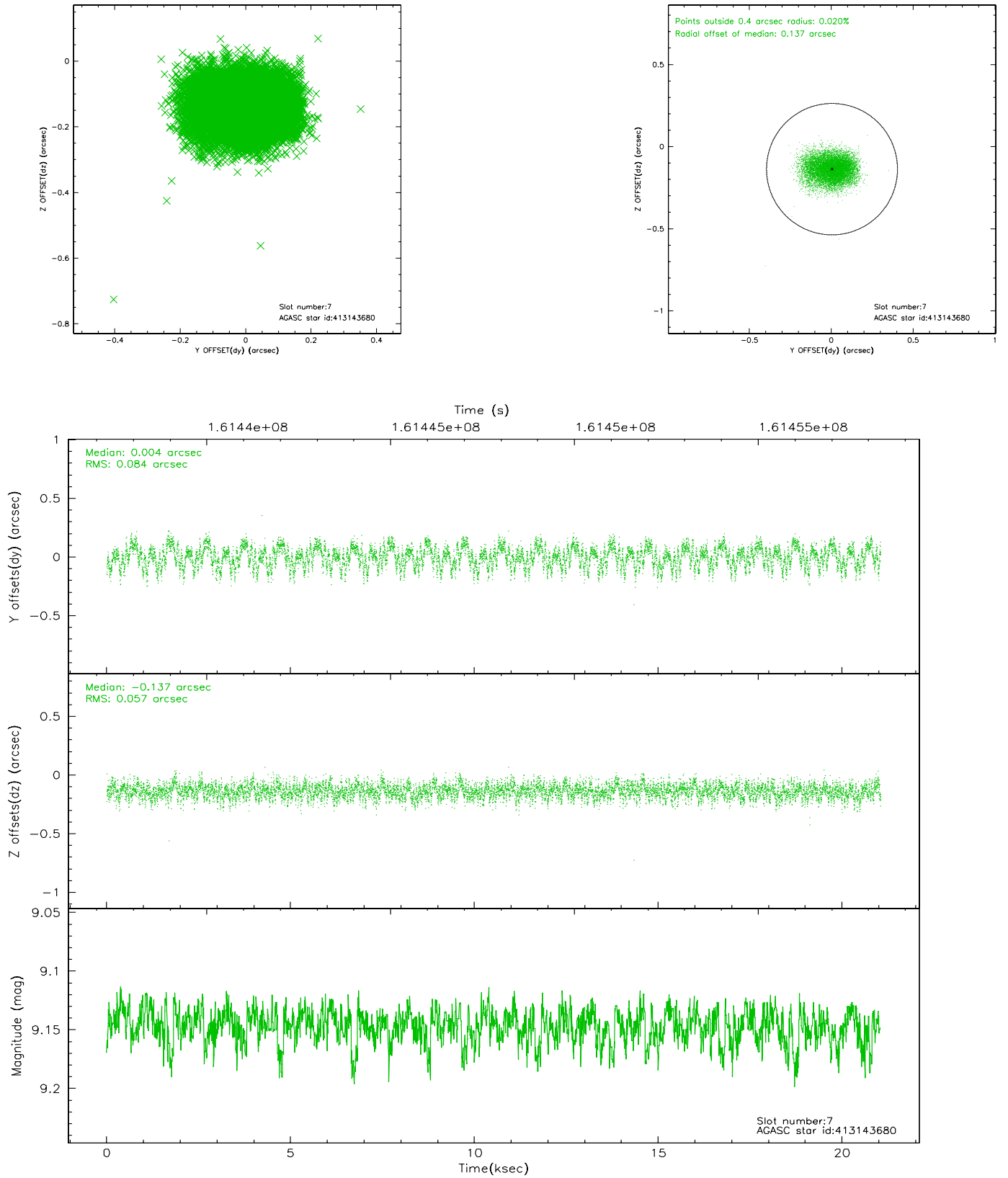
2.4.3 Slot 5



2.4.4 Slot 6

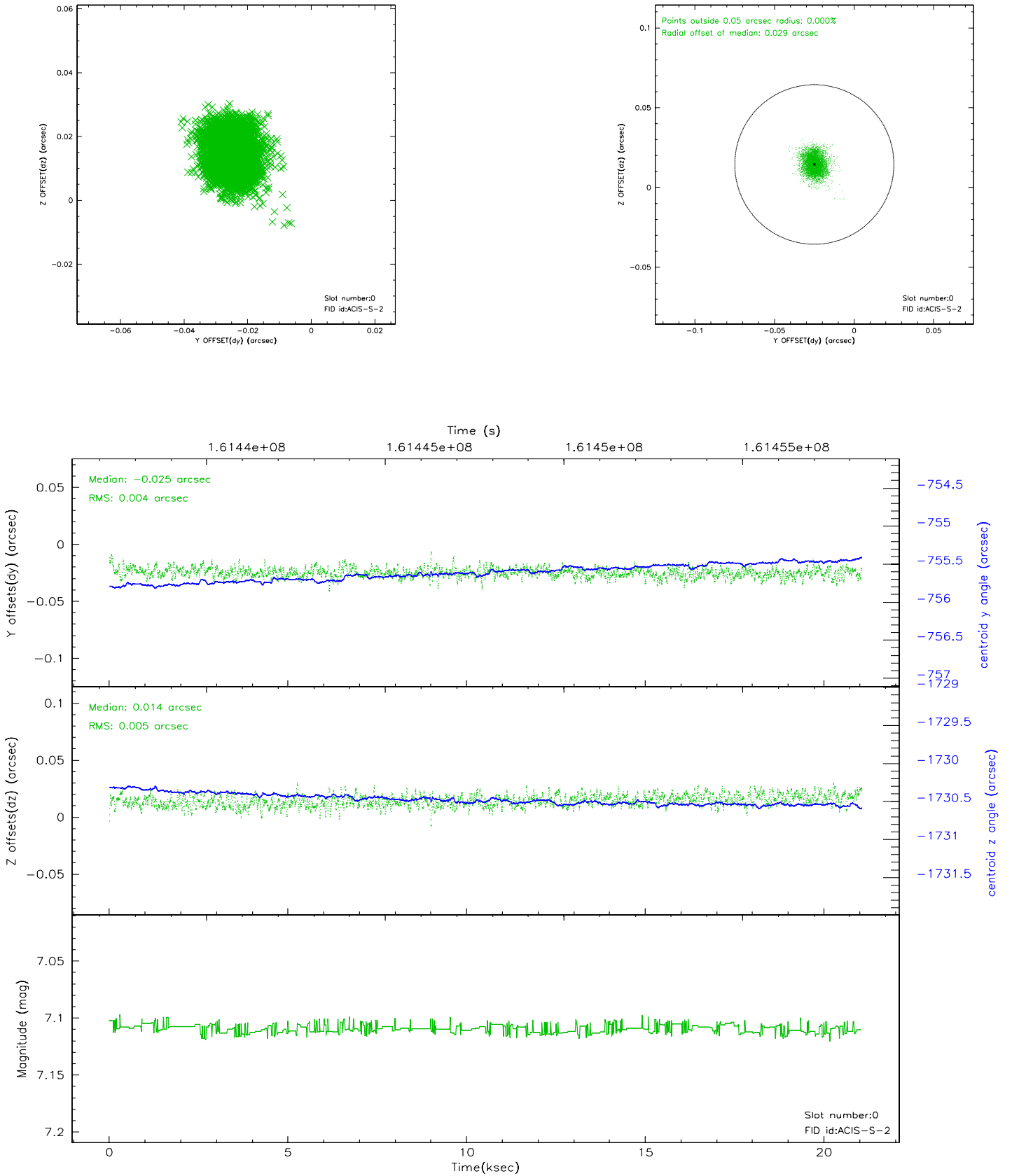


2.4.5 Slot 7

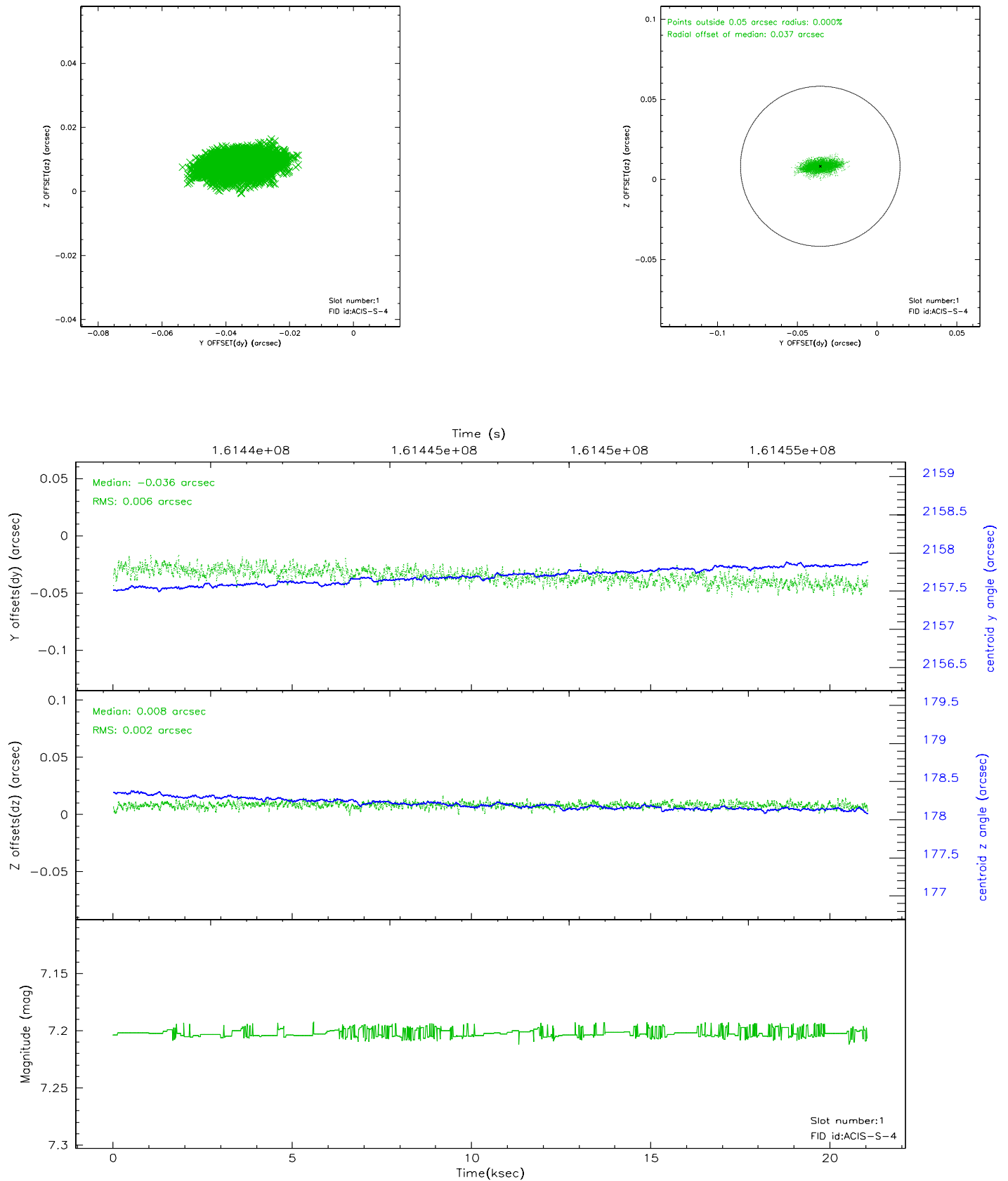


2.5 FID Slots

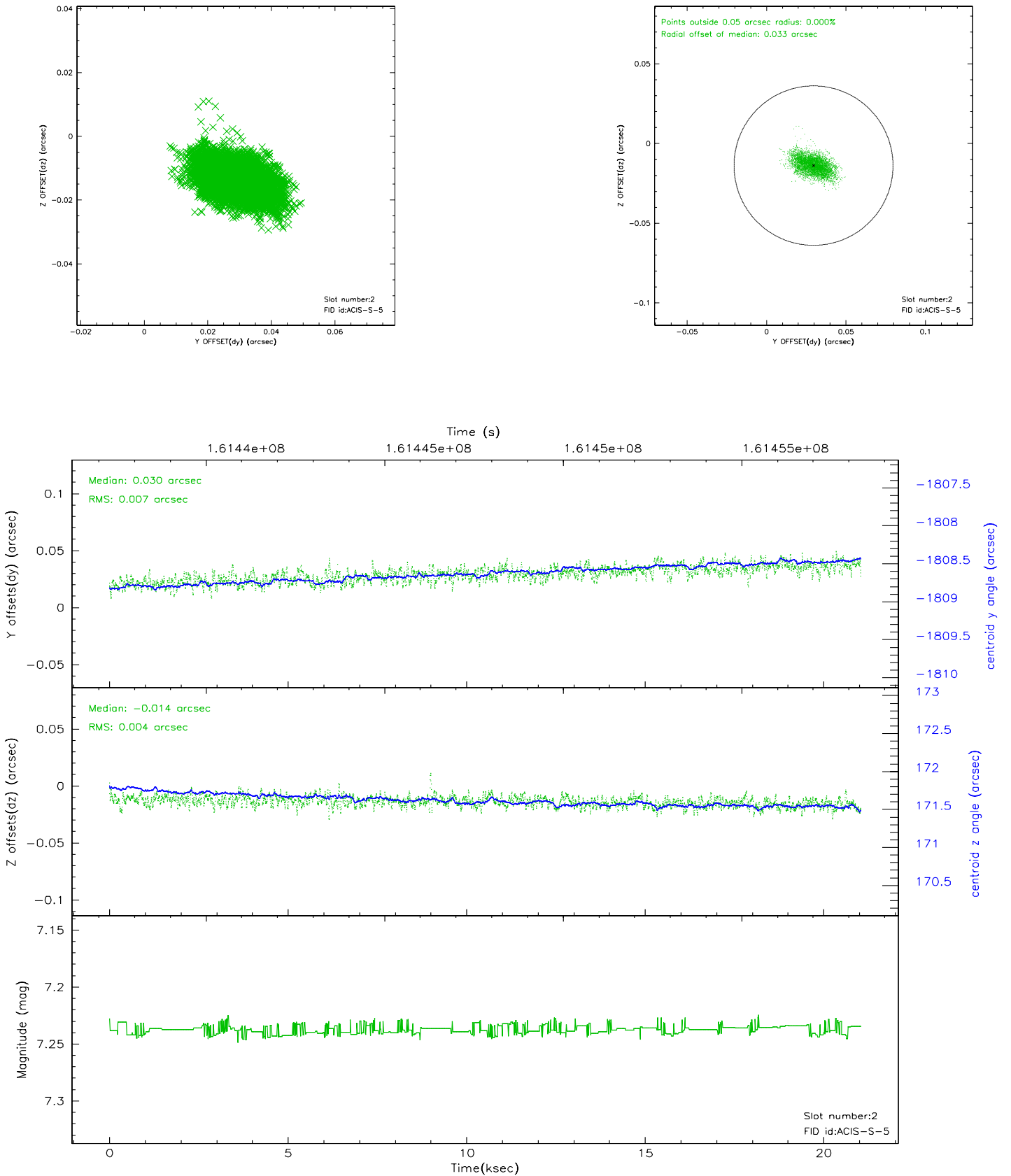
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2006.07.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.767

A.2 Comments

Roll constraint met.

Bias map for chip 3 was lost due to a telemetry dropout. A replacement bias
file was created using the event and exposure data to model a
reasonable
bias map for chip 3. The target does not fall on chip 3.