

V&V Reference Report

L2 ASCDS Version : 10.3.3

Observation 17043 - L2 Version 2
Chandra X-Ray Center

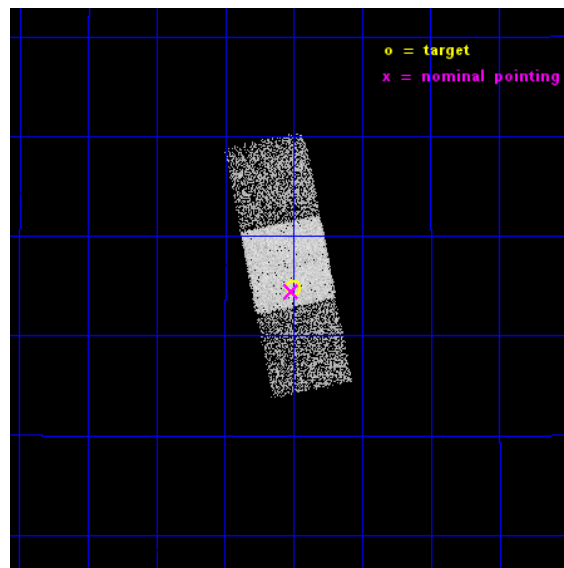
L2 Processing Date : Mar 9 2015

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1 Front

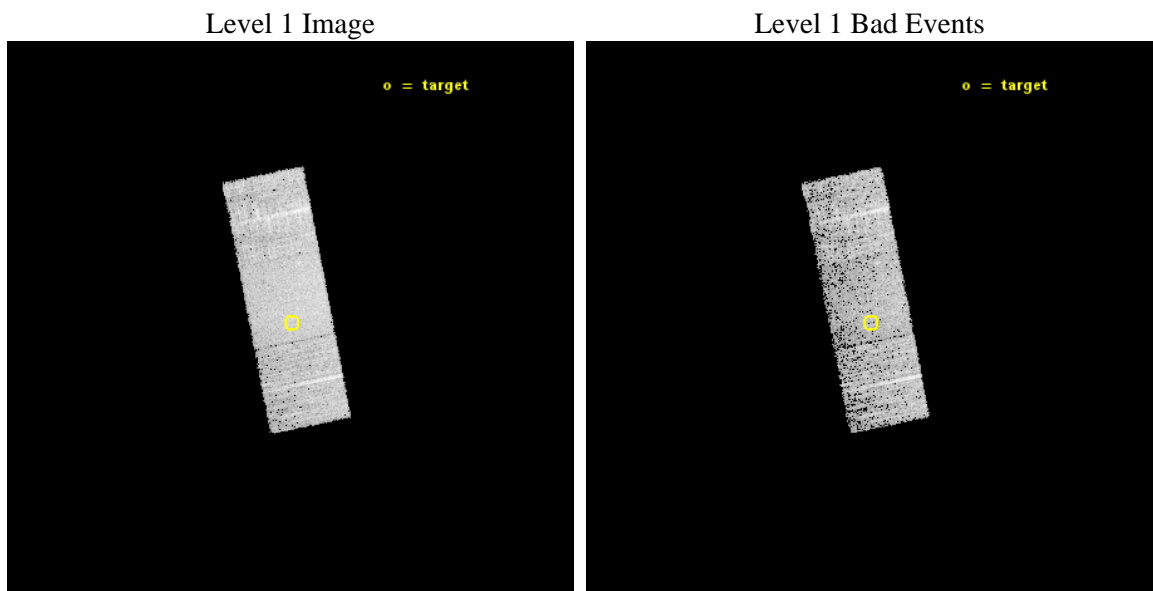
seq_num	703047	Sequence number
obs_id	17043	Observation id
title	The Nature of Quasars with Redshifted Broad Absorption Lines	Propo
observer	Prof. W.N. Brandt	Principal investigator
object	SDSS J0830+1654	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	127.62625	Observer's specified target RA [deg]
dec_targ	16.912417	Observer's specified target Dec [deg]
ra_nom	127.62885023318	Nominal RA [deg]
dec_nom	16.907635015434	Nominal Dec [deg]
roll_nom	258.68281669175	Nominal Roll [deg]
revision	2	Processing version of data
ontime	6115.4365319014	Sum of GTIs [s]
livetime	6035.5338514932	Livetime [s]
ontime6	6115.3954919577	Sum of GTIs [s]
ontime7	6115.4365319014	Sum of GTIs [s]
ontime8	6115.3544518948	Sum of GTIs [s]
l2events	22478	Number of level 2 events



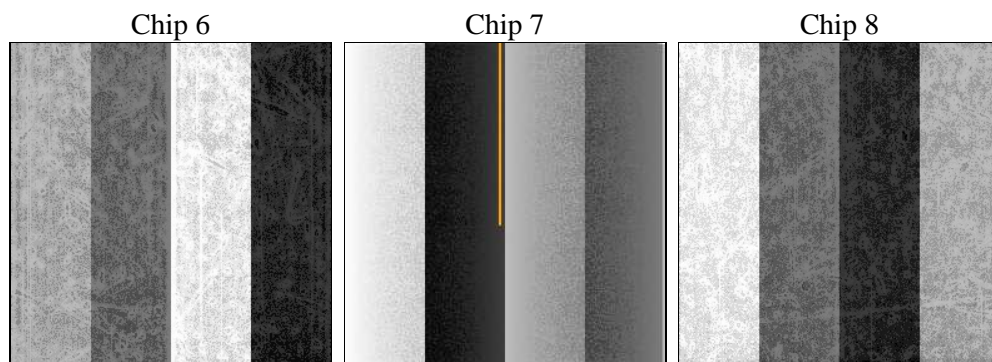
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	6000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	6115.4365319014	Sum of GTIs [s]
caldsver	4.6.7	 	ontime6	6115.3954919577	Sum of GTIs [s]
date	2015-03-09T19:33:31	Date and time of file creation	ontime7	6115.4365319014	Sum of GTIs [s]
revision	2	Processing version of data	ontime8	6115.3544518948	Sum of GTIs [s]
			l1events	106615	Number of level 1 events

2.1.4 Events

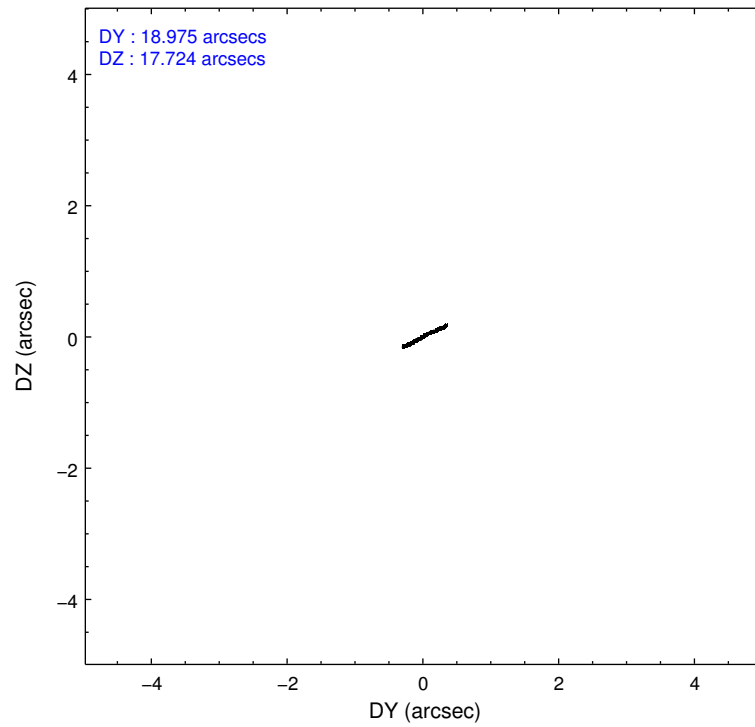
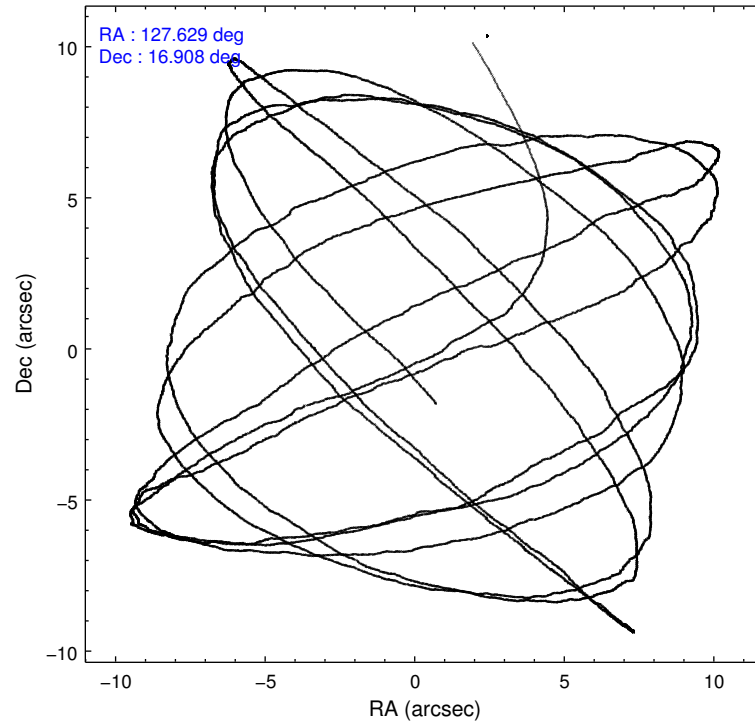
	ccd 6	ccd 7	ccd 8
level 1 events	29826	39358	37431
rejected events	26442	22660	28775
rejected %	88%	57%	76%

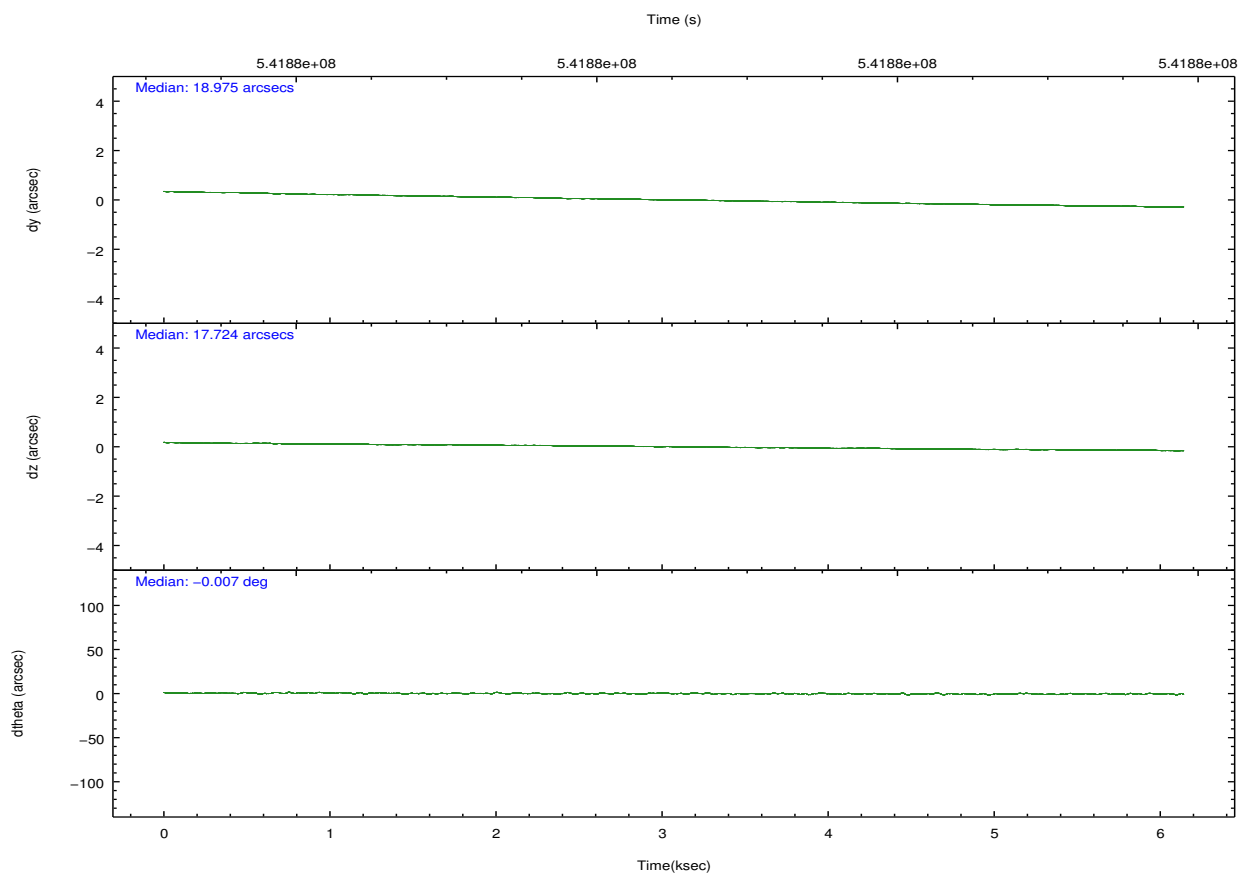
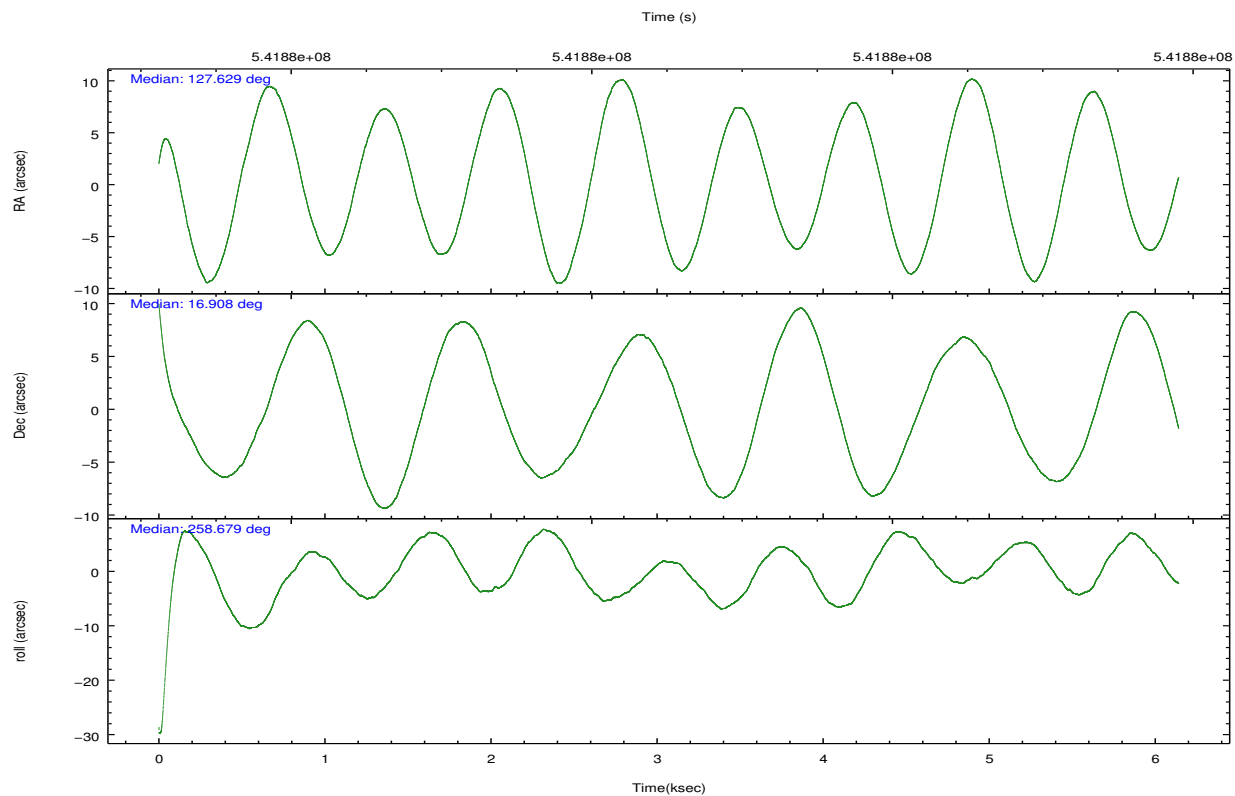
	ccd 6	ccd 7	ccd 8
grade 0 events	1050	1384	2342
	3%	3%	6%
grade 1 events	14	42	25
	0%	0%	0%
grade 2 events	796	3534	2275
	2%	8%	6%
grade 3 events	316	1238	823
	1%	3%	2%
grade 4 events	341	1250	741
	1%	3%	1%
grade 5 events	1400	3737	2202
	4%	9%	5%
grade 6 events	884	9298	2477
	2%	23%	6%
grade 7 events	25025	18875	26546
	83%	47%	70%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-678	ACIS-678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	127.619337	127.6288502331767	Subarray requested	NONE	NONE
[deg] Pointing Dec	16.933486	16.90763501543357	Alternating exposures requested	N	N
[deg] Pointing Roll	258.529018	258.6828166917533	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	541877580.184000	541876517.32967			
Observation start date	2015-03-04T17:31:53	2015-03-04T17:15:17			
[s] Observation end time (MET)	541883580.184000	541884550.76762			
Observation end date	2015-03-04T19:11:53	2015-03-04T19:29:10			
Read mode	TIMED	TIMED			

2.3 Aspect



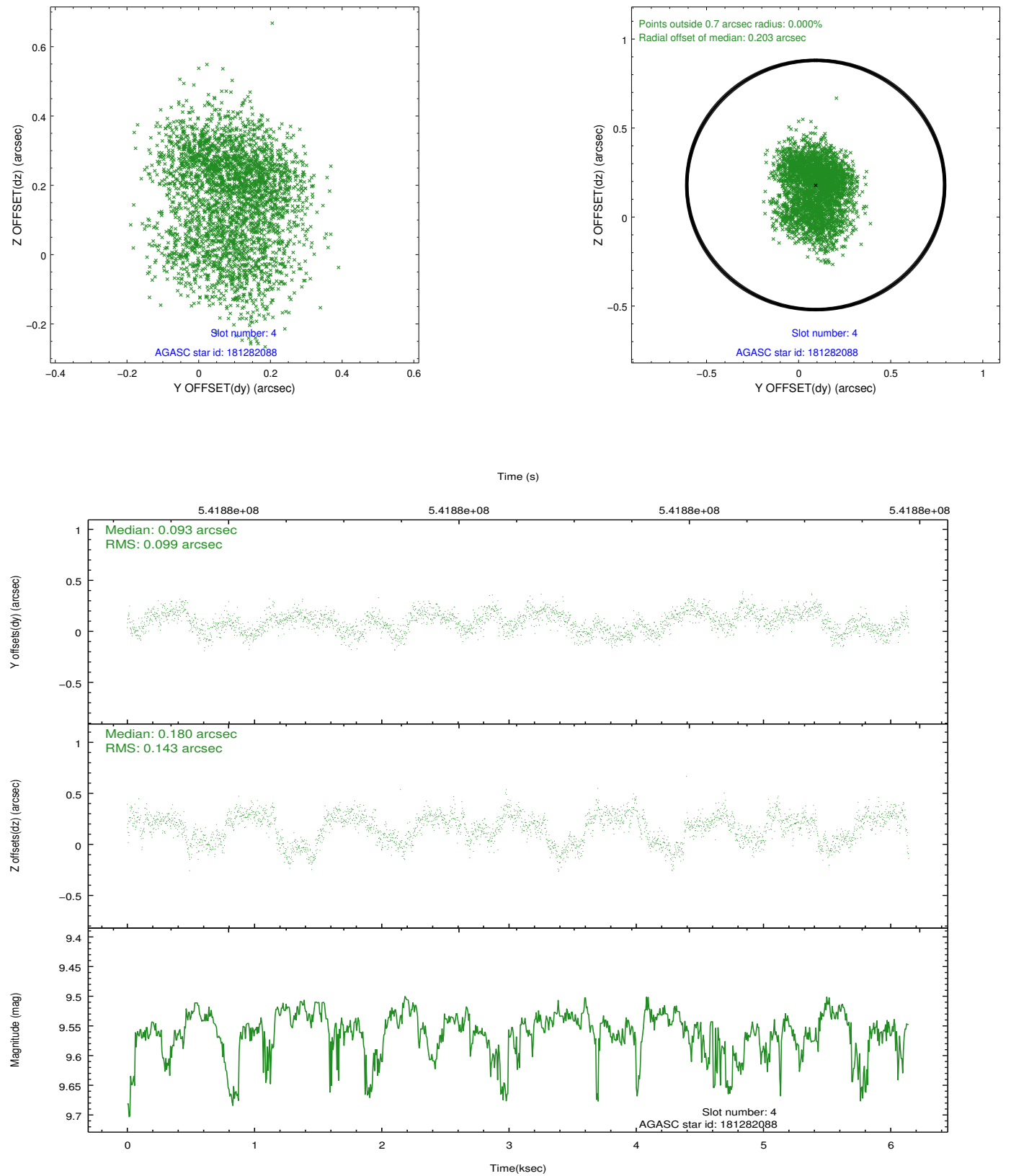


Slot Statistics

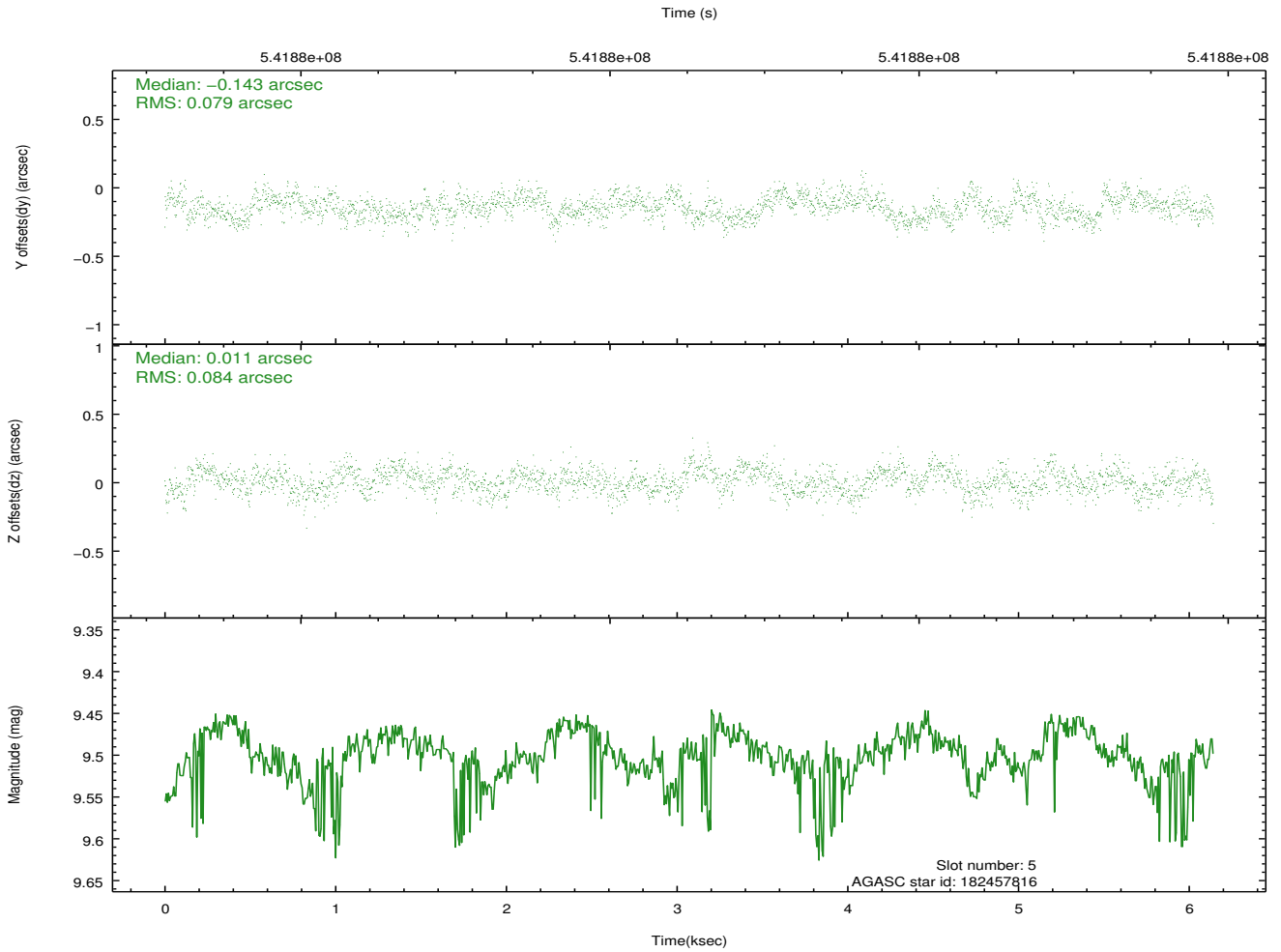
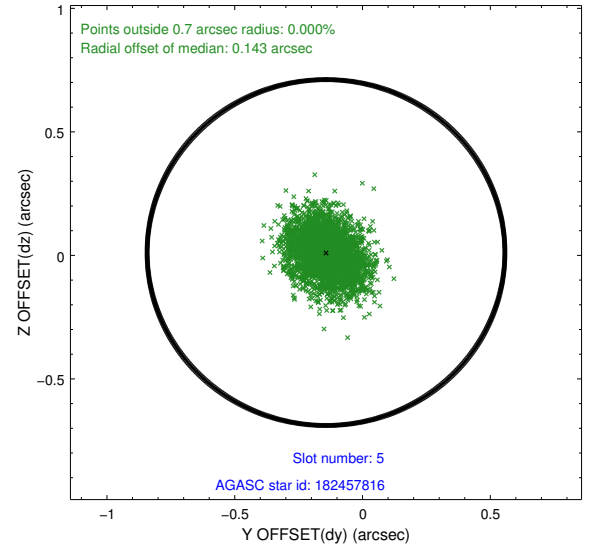
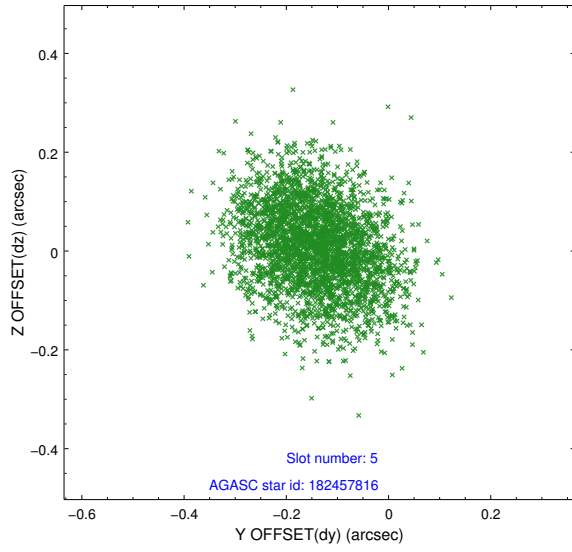
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.21	1497	0.271	-0.079	0.008	0.013	0.000000	0.000000	924.30	-1734.86
1	FID		ACIS-S-2	7.13	1498	-0.134	-0.061	0.009	0.015	0.000000	0.000000	-771.47	-1740.44
2	FID		ACIS-S-5	7.24	1499	-0.161	0.147	0.007	0.012	0.000000	0.000000	-1825.78	161.84
3	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
4	GUIDE	used	181282088	9.56	2992	0.093	0.180	0.187	0.297	127.619242	17.056872	-434.46	-88.45
5	GUIDE	used	182457816	9.50	2994	-0.143	0.011	0.125	0.199	128.254261	17.226653	-1472.06	1929.25
6	GUIDE	used	182469632	8.89	2994	-0.038	-0.148	0.099	0.159	128.080487	16.212841	2223.42	2078.96
7	GUIDE	used	180752600	8.97	2996	0.093	-0.017	0.143	0.225	127.203609	16.325053	2432.33	-971.39

2.4 Star Slots

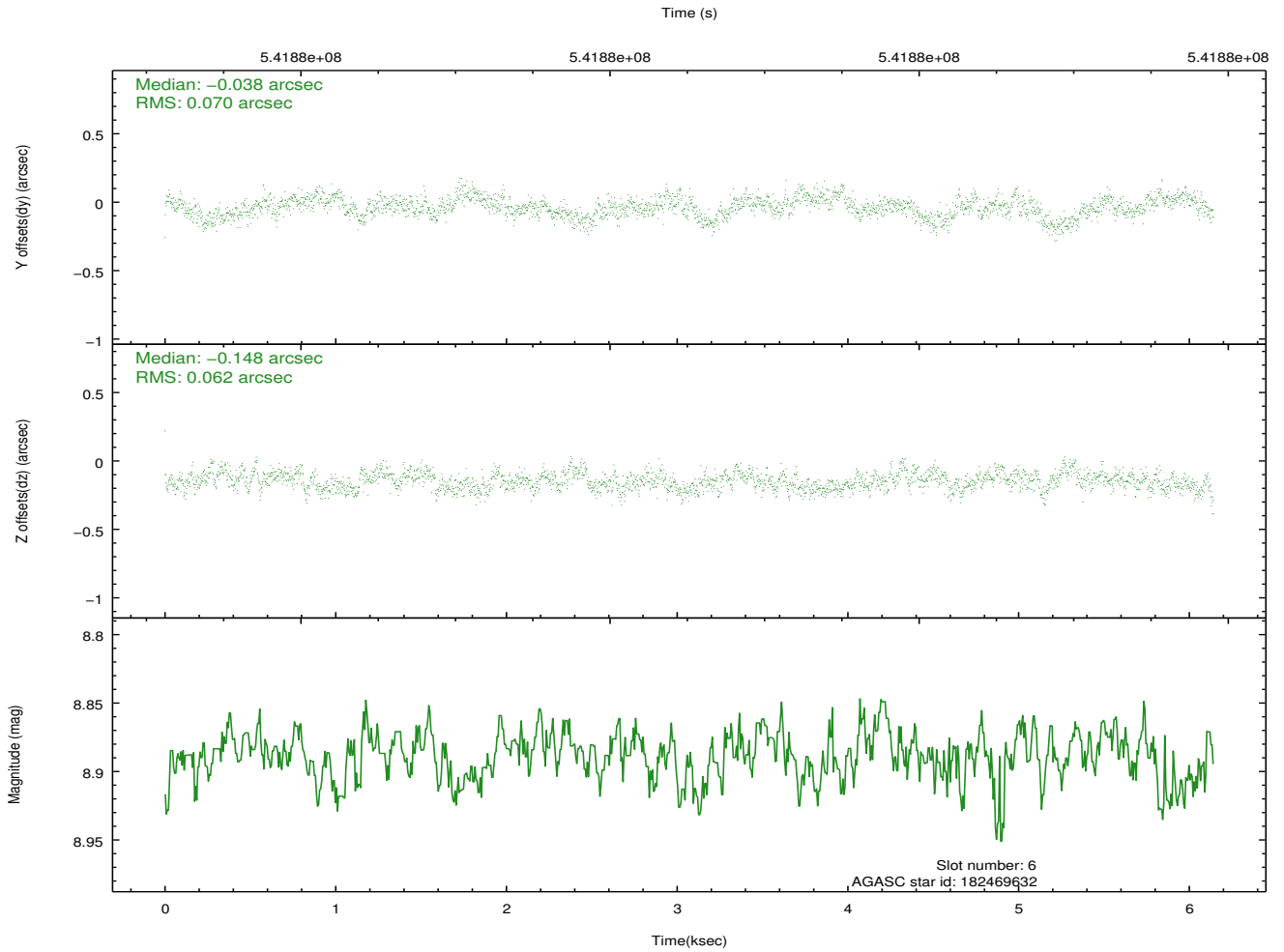
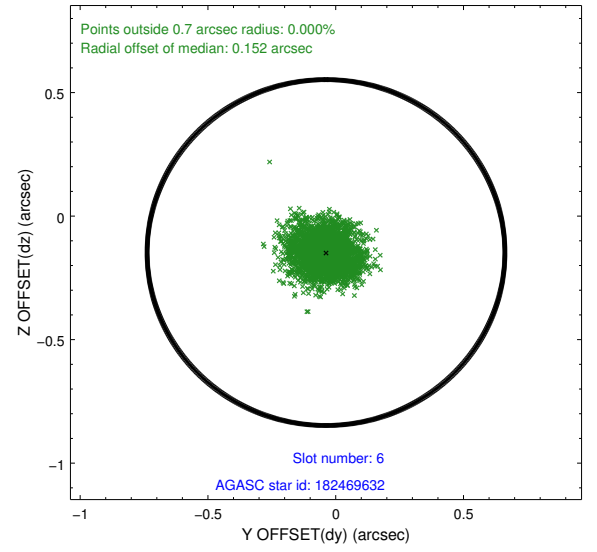
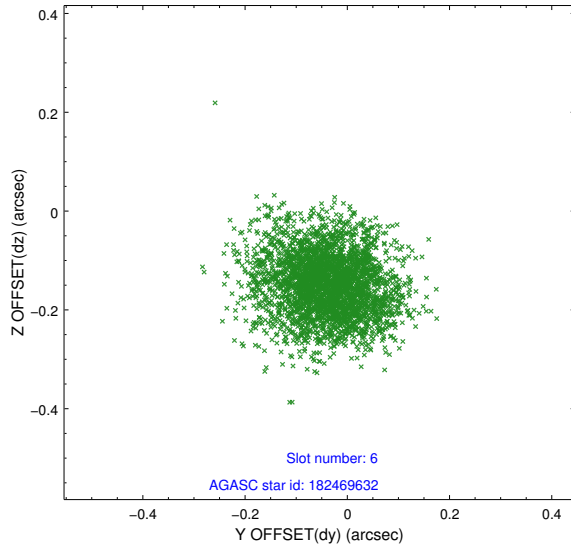
2.4.1 Slot 4



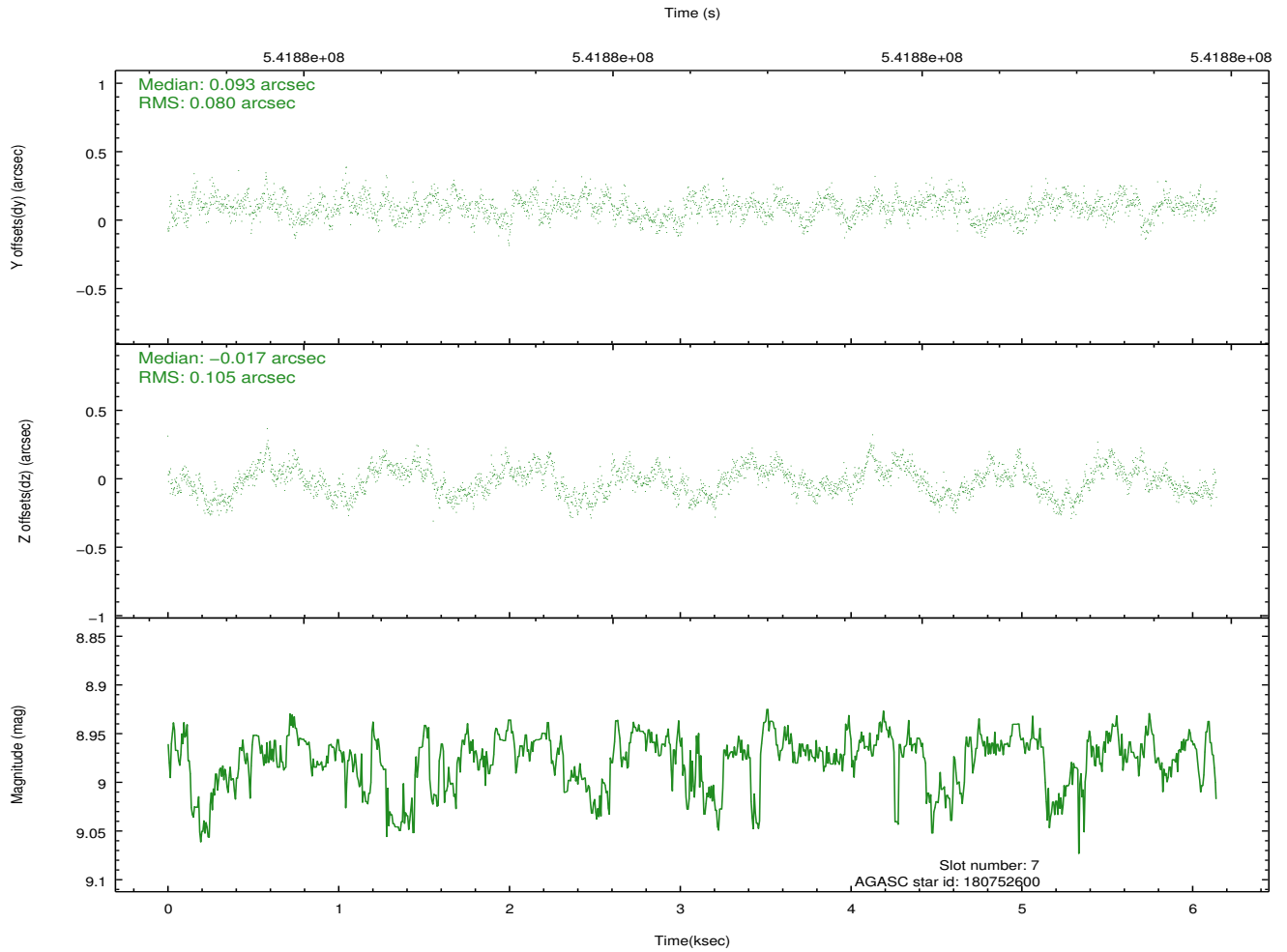
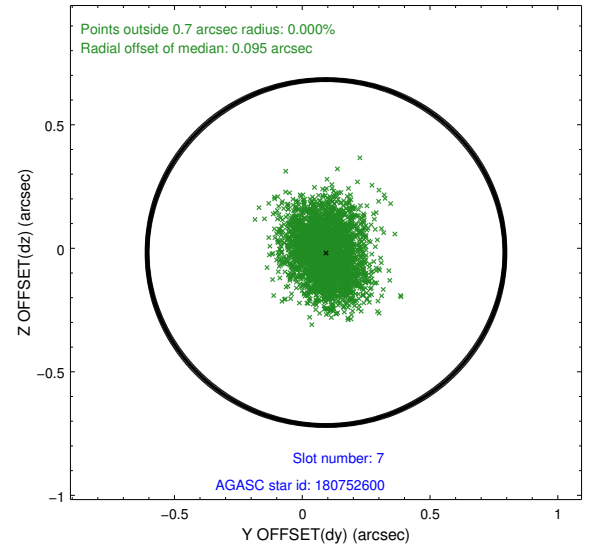
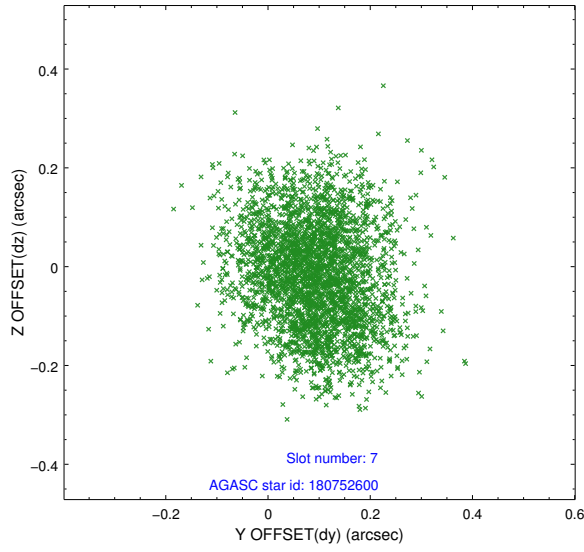
2.4.2 Slot 5



2.4.3 Slot 6

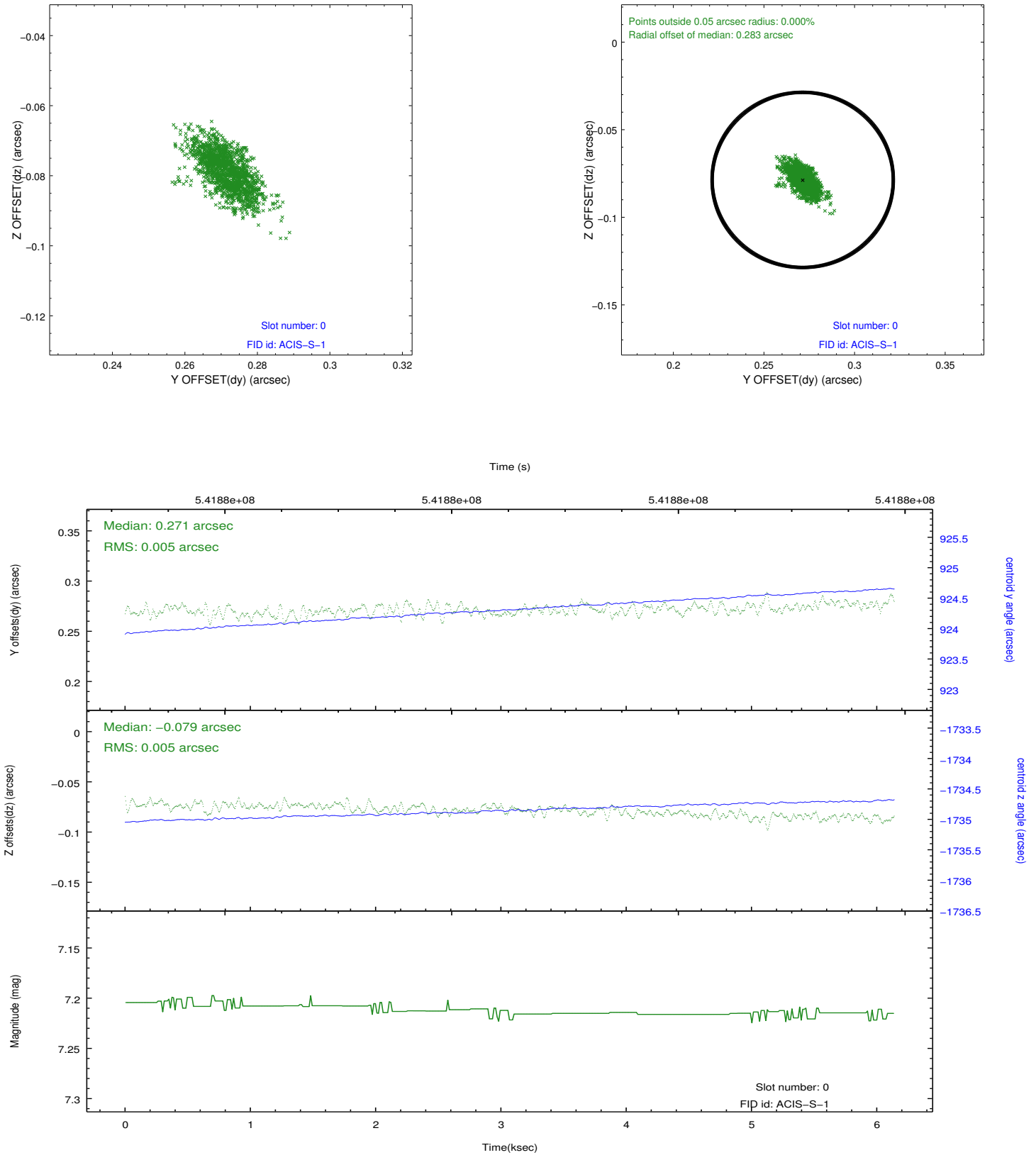


2.4.4 Slot 7

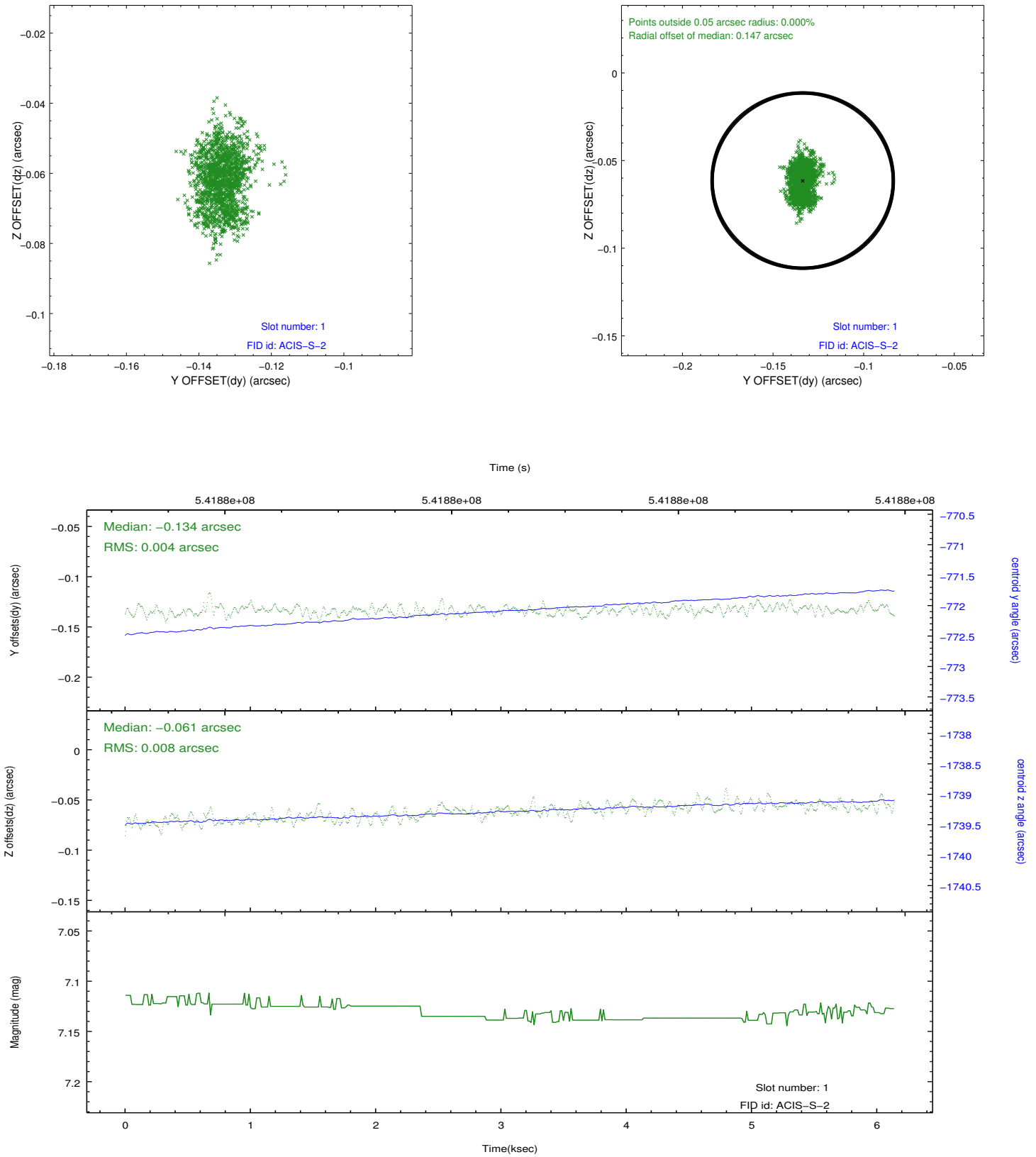


2.5 FID Slots

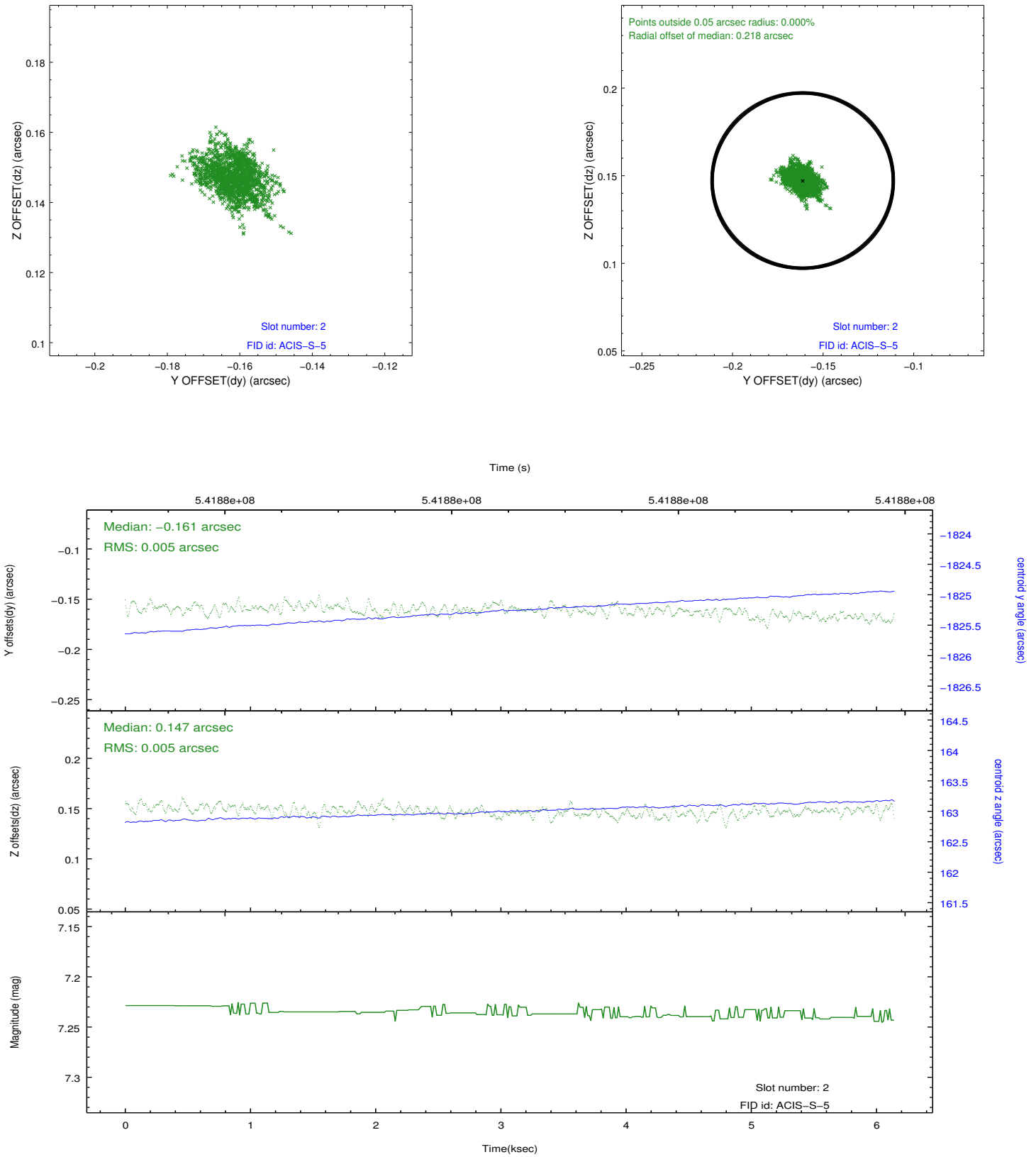
2.5.1 Slot 0



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)	2015.03.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.1154365319014

A.2 Comments

The guide star in slot 3 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this star from the solution.