

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 13949 - L2 Version 1
Chandra X-Ray Center

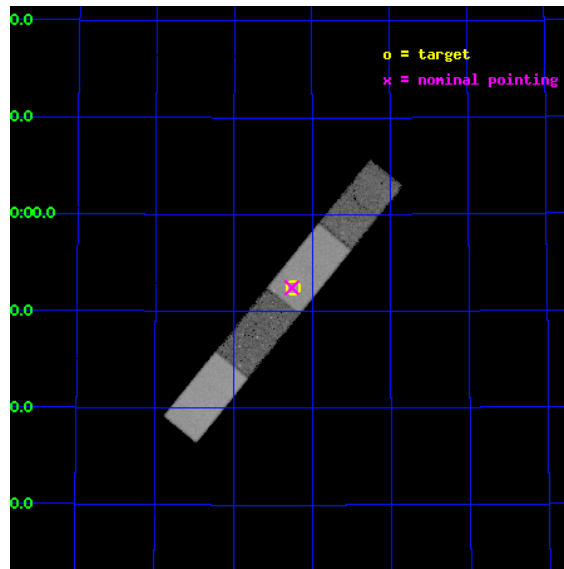
L2 Processing Date : Aug 24 2012

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

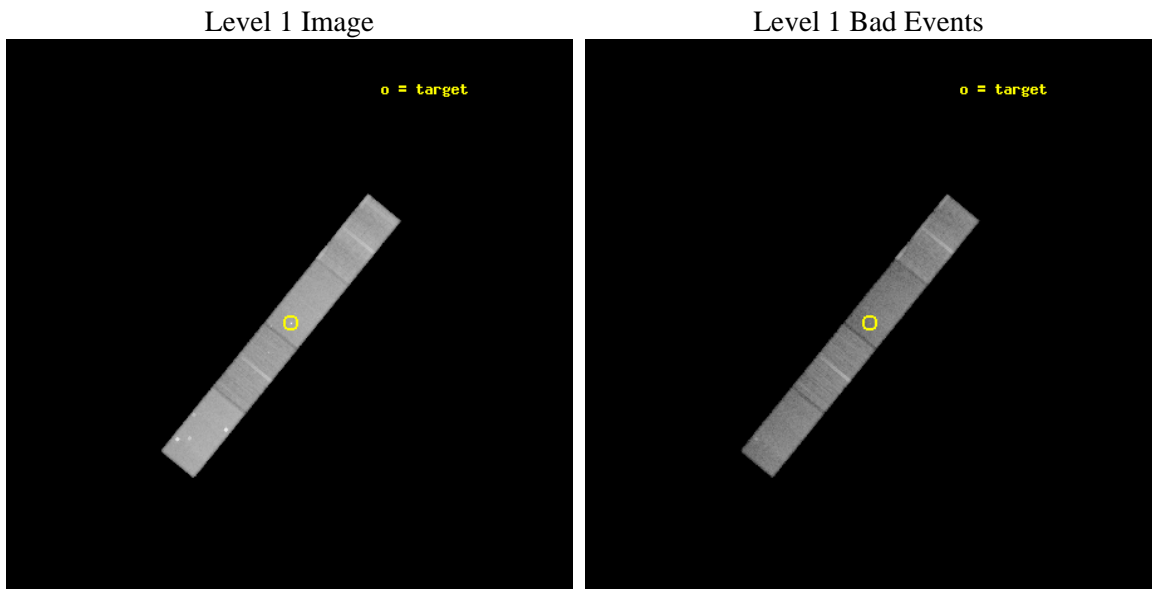
seq_num	702671	Sequence number
obs_id	13949	Observation id
title	Quasar Feedback in Action: The Wide-Angle Wind of Mrk 231	Proposal
observer	Prof. Sylvain Veilleux	Principal investigator
object	Mrk 231	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	194.059167	Observer's specified target RA [deg]
dec_targ	56.873611	Observer's specified target Dec [deg]
ra_nom	194.06466149609	Nominal RA [deg]
dec_nom	56.873958325717	Nominal Dec [deg]
roll_nom	309.15201870595	Nominal Roll [deg]
revision	1	Processing version of data
ontime	40973.399712741	Sum of GTIs [s]
livetime	40007.569907446	Livetime [s]
ontime5	40973.399712741	Sum of GTIs [s]
ontime6	40971.65872252	Sum of GTIs [s]
ontime7	40973.399712741	Sum of GTIs [s]
ontime8	40973.399712741	Sum of GTIs [s]
l2events	175352	Number of level 2 events



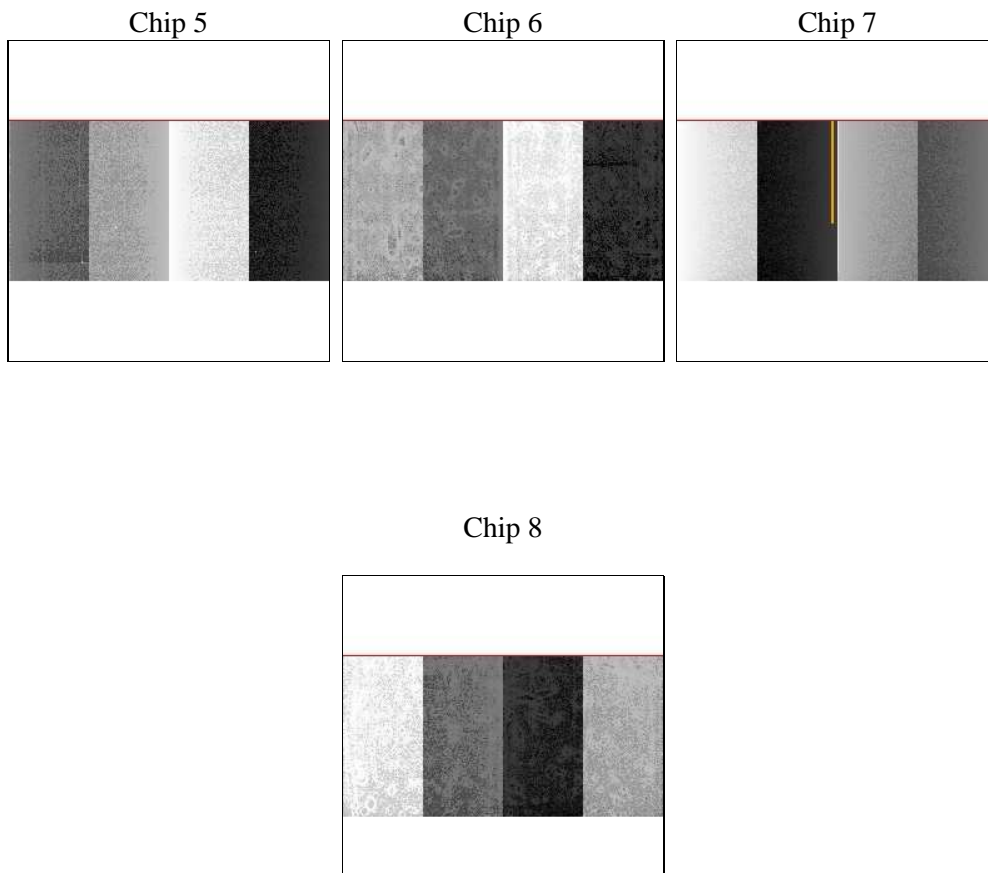
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	40902.288000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	40973.399712741	Sum of GTIs [s]
caldsver	4.5.1.1	 	ontime5	40973.399712741	Sum of GTIs [s]
date	2012-08-24T21:48:27	Date and time of file creation	ontime6	40971.65872252	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	40973.399712741	Sum of GTIs [s]
			ontime8	40973.399712741	Sum of GTIs [s]
			l1events	601123	Number of level 1 events

2.1.4 Events

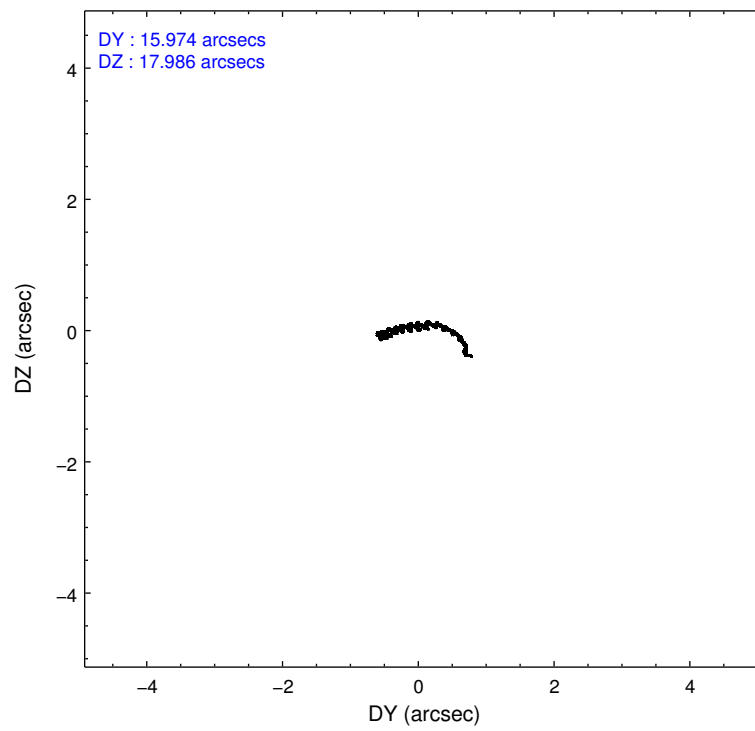
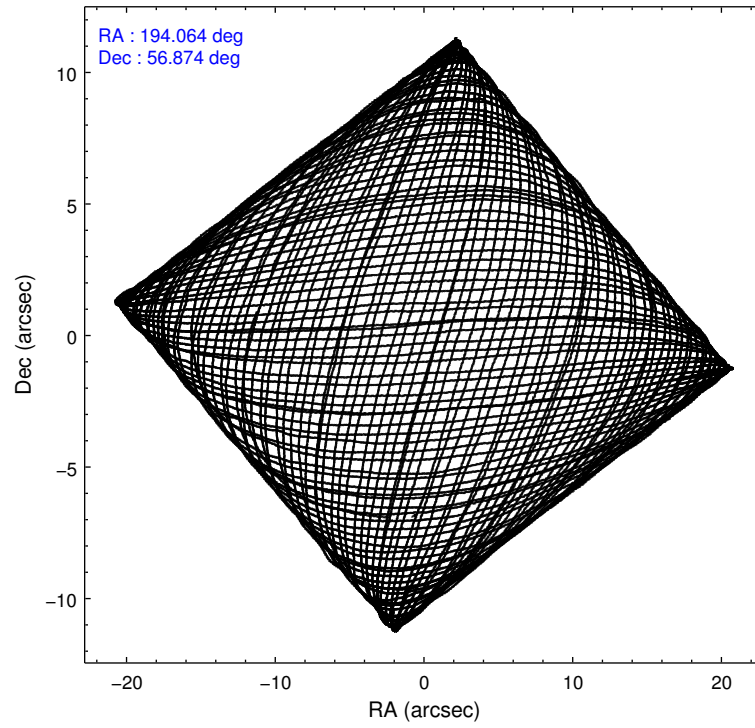
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	186884	114682	147499	152058
rejected events	90986	100290	78317	112586
rejected %	48%	87%	53%	74%

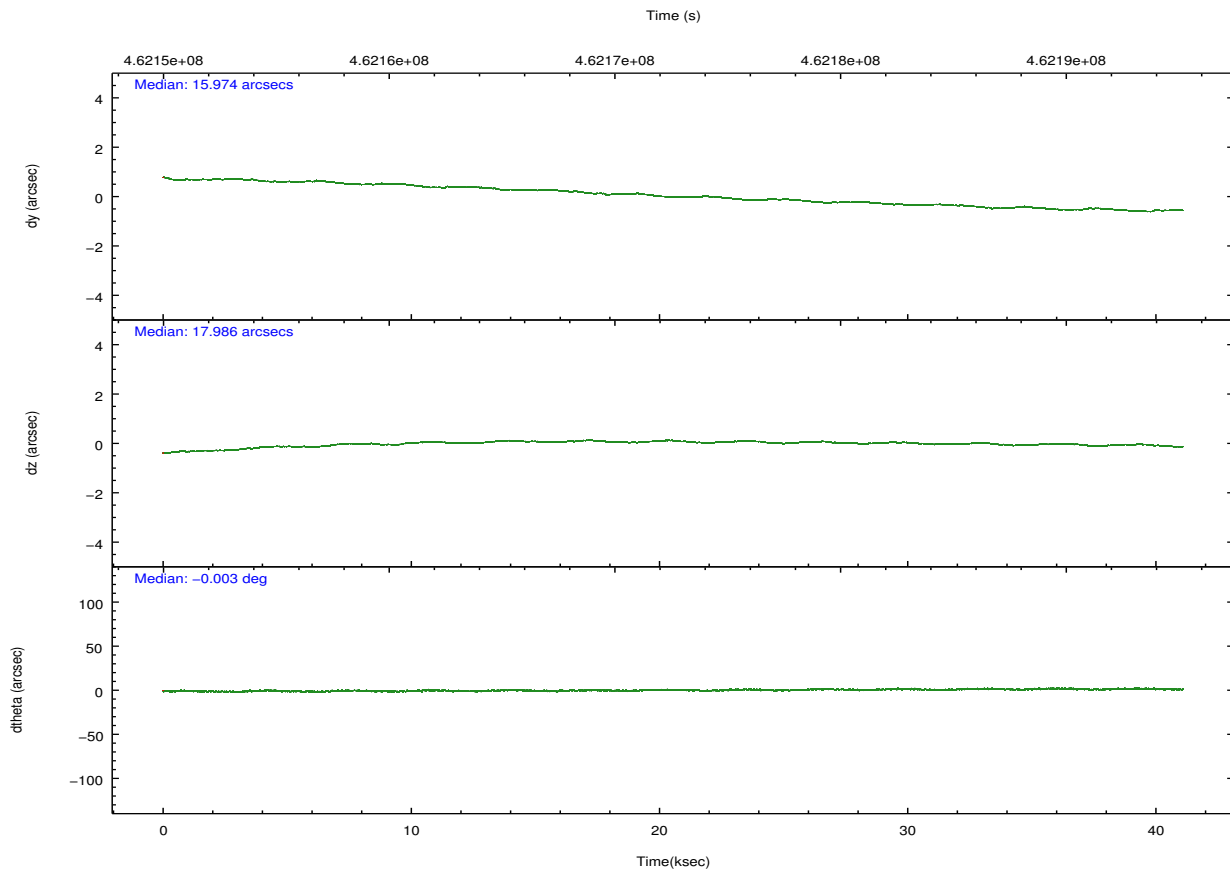
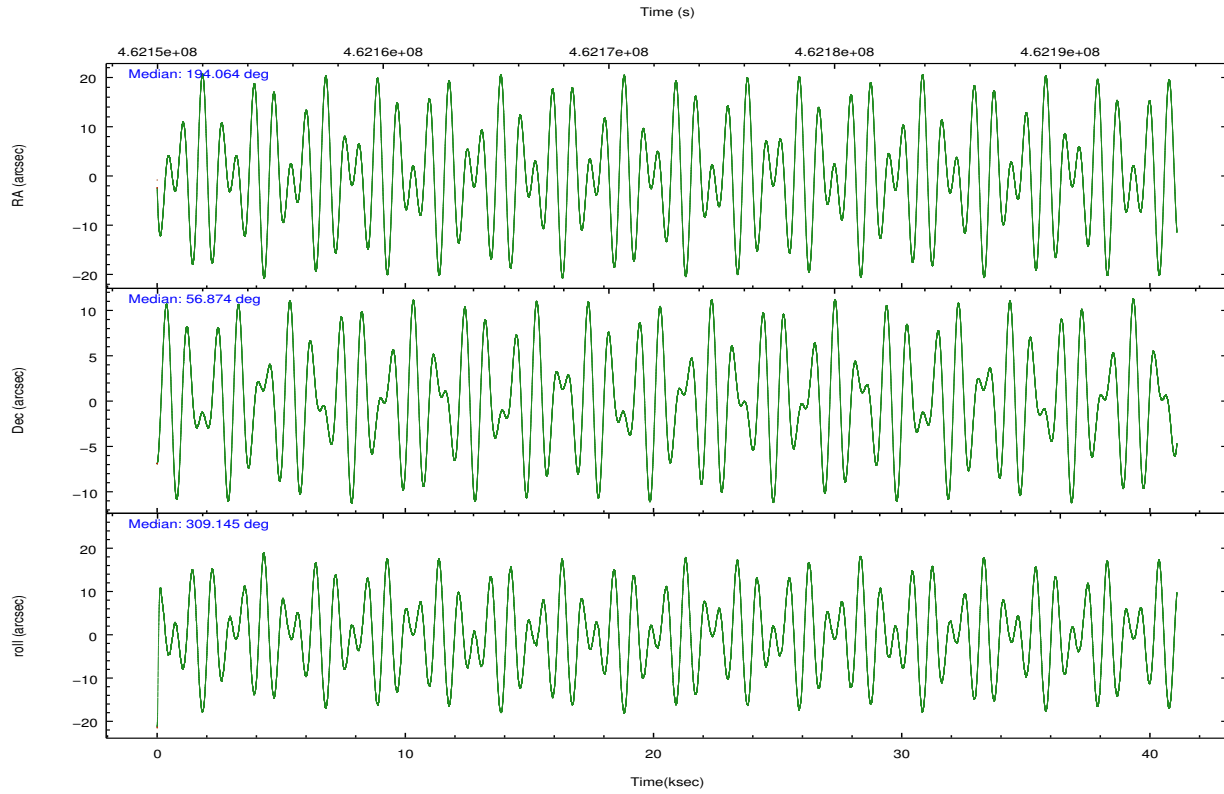
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	15443	4974	7252	11271
	8%	4%	4%	7%
grade 1 events	359	48	216	91
	0%	0%	0%	0%
grade 2 events	28198	2951	14431	9184
	15%	2%	9%	6%
grade 3 events	4190	1717	6794	4175
	2%	1%	4%	2%
grade 4 events	4001	1773	6734	3982
	2%	1%	4%	2%
grade 5 events	14943	5459	15515	7857
	7%	4%	10%	5%
grade 6 events	44068	2977	33975	10861
	23%	2%	23%	7%
grade 7 events	75682	94783	62582	104637
	40%	82%	42%	68%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-5678	ACIS-5678	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	194.017649	194.0646614960947	Subarray requested	CUSTOM	1/2
[deg] Pointing Dec	56.883324	56.87395832571657	Subarray start row	257	257
[deg] Pointing Roll	309.034775	309.1520187059481	Subarray row count	512	512
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	1.7
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	462152219.184000	462150452.40032			
Observation start date	2012-08-23T23:35:52	2012-08-23T23:07:32			
[s] Observation end time (MET)	462193121.184000	462193346.60261			
Observation end date	2012-08-24T10:57:34	2012-08-24T11:02:26			
Read mode	TIMED	TIMED			

2.3 Aspect



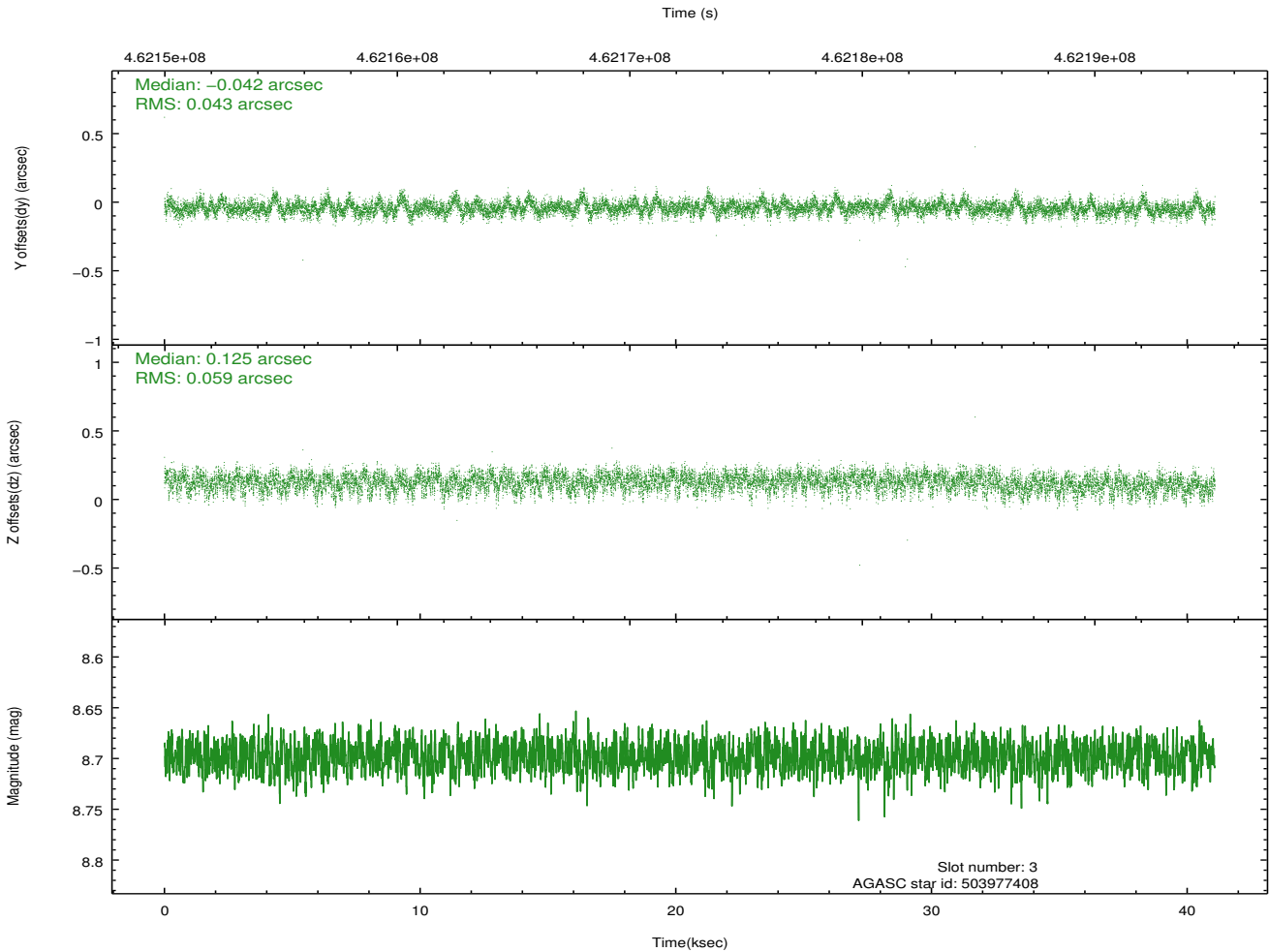
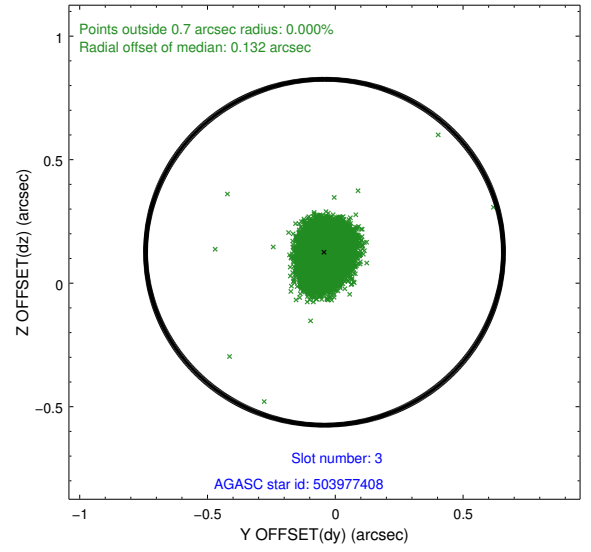
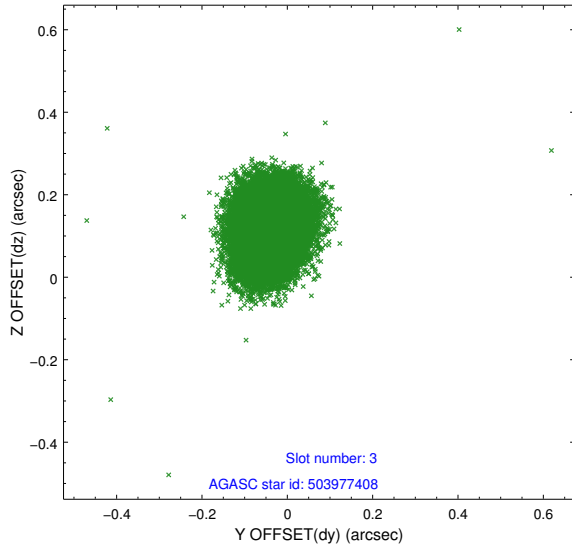


Slot Statistics

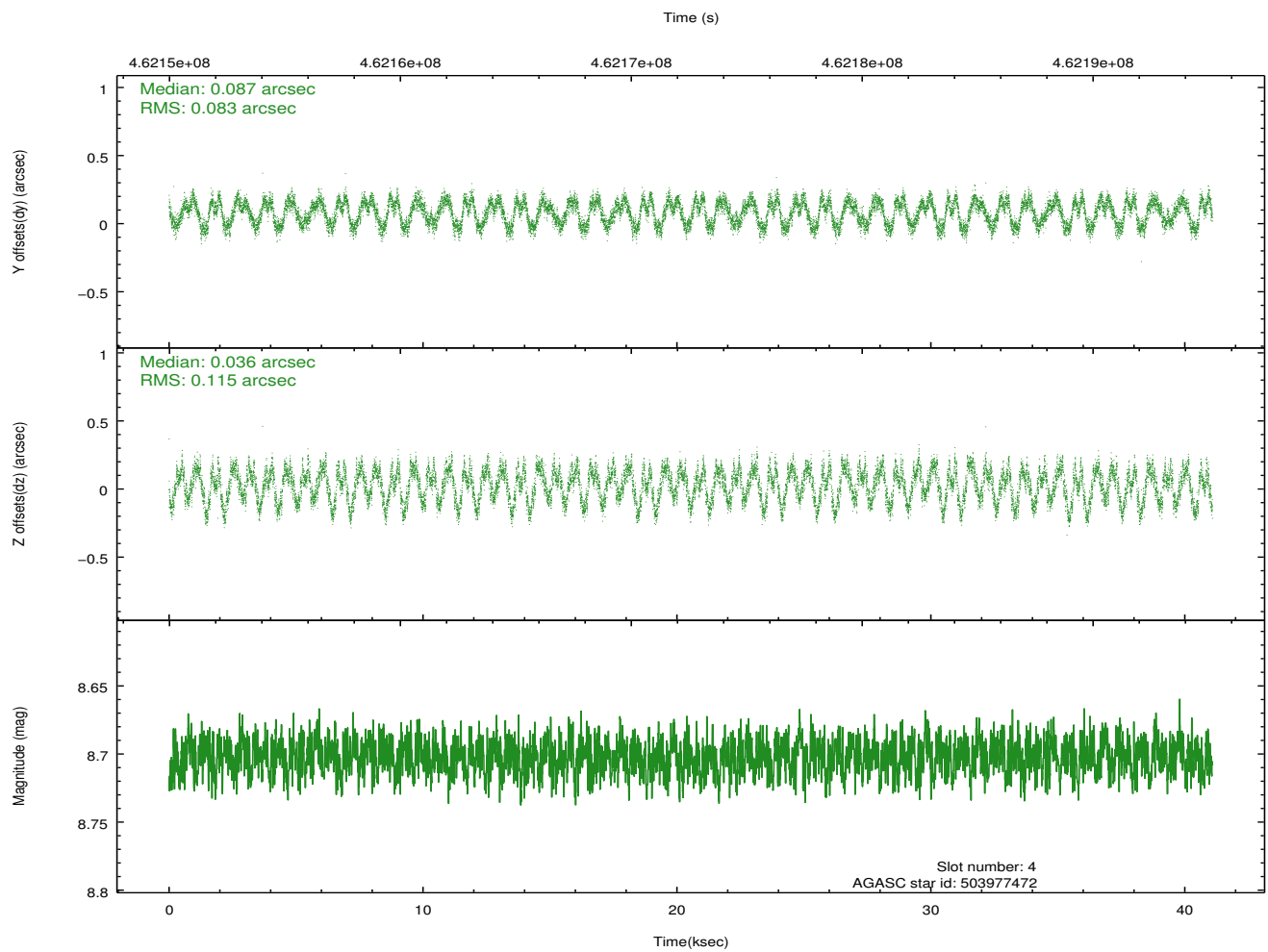
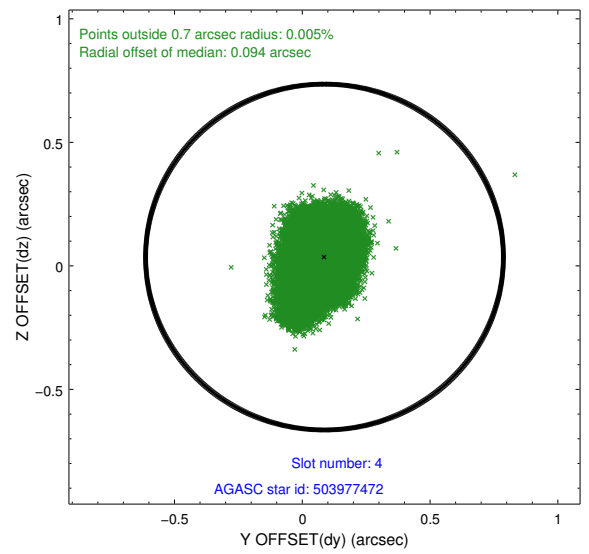
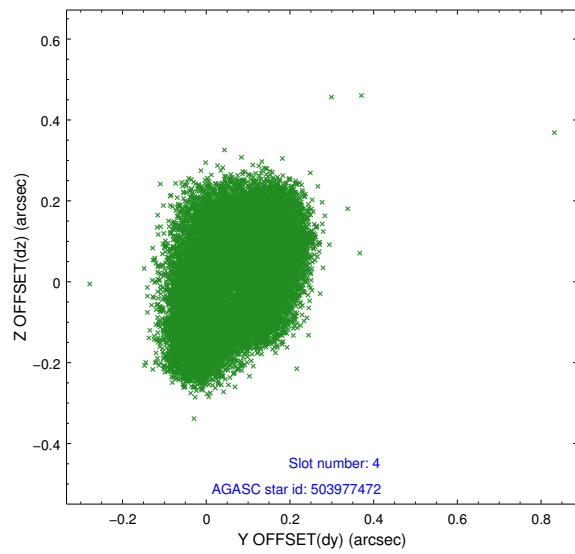
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.92	10022	-0.089	-0.043	0.009	0.015	0.000000	0.000000	-769.15	-1739.44
1	FID	ACIS-S-4	7.01	10022	0.192	0.054	0.010	0.022	0.000000	0.000000	2144.45	169.06
2	FID	ACIS-S-5	7.03	10022	-0.136	-0.002	0.010	0.020	0.000000	0.000000	-1821.98	162.78
3	GUIDE	503977408	8.70	20036	-0.042	0.125	0.077	0.124	192.662536	56.861423	-1638.65	-2104.21
4	GUIDE	503977472	8.70	19991	0.087	0.036	0.151	0.241	193.107383	56.634174	-447.19	-1957.03
5	GUIDE	503979936	8.62	20031	-0.159	0.031	0.093	0.144	194.419806	56.566429	1386.75	-96.94
6	GUIDE	504365896	8.77	20019	0.050	-0.185	0.088	0.149	194.216695	57.731870	-2132.37	2221.14
7	GUIDE	504368776	7.96	20040	0.078	0.000	0.096	0.151	194.317087	57.691724	-1898.85	2281.50

2.4 Star Slots

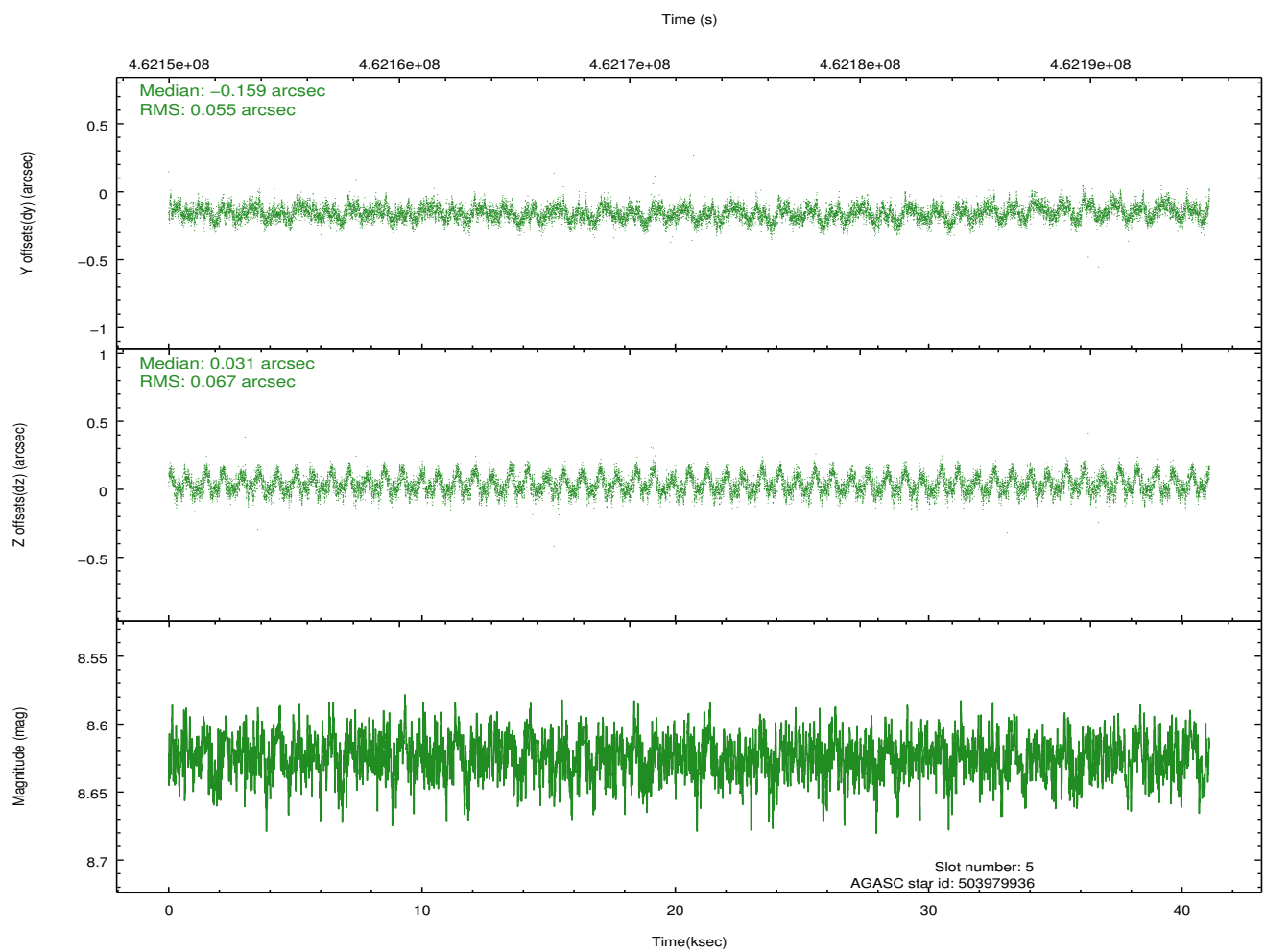
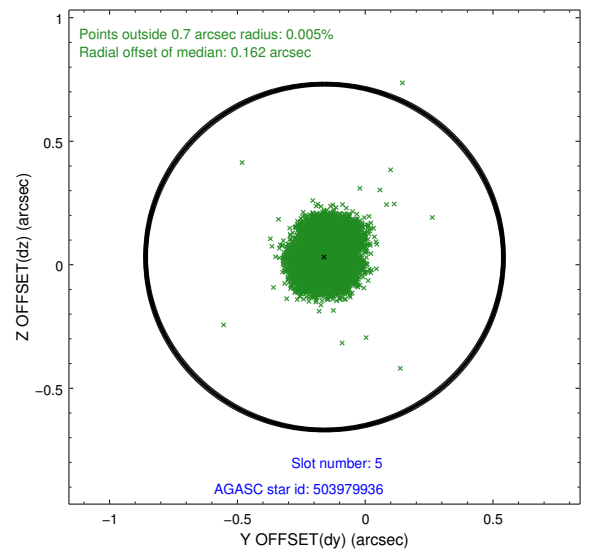
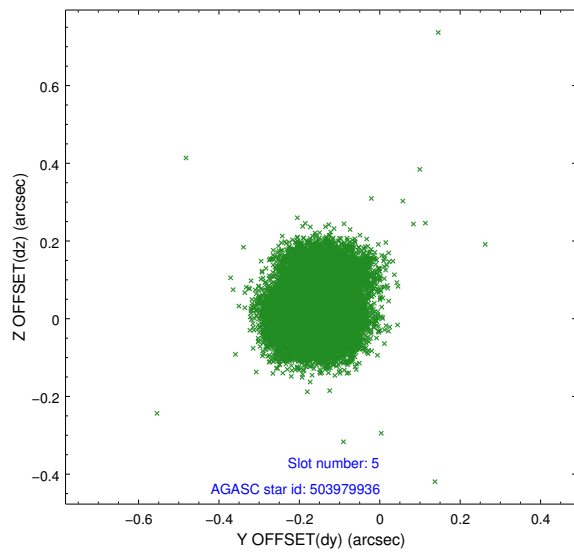
2.4.1 Slot 3



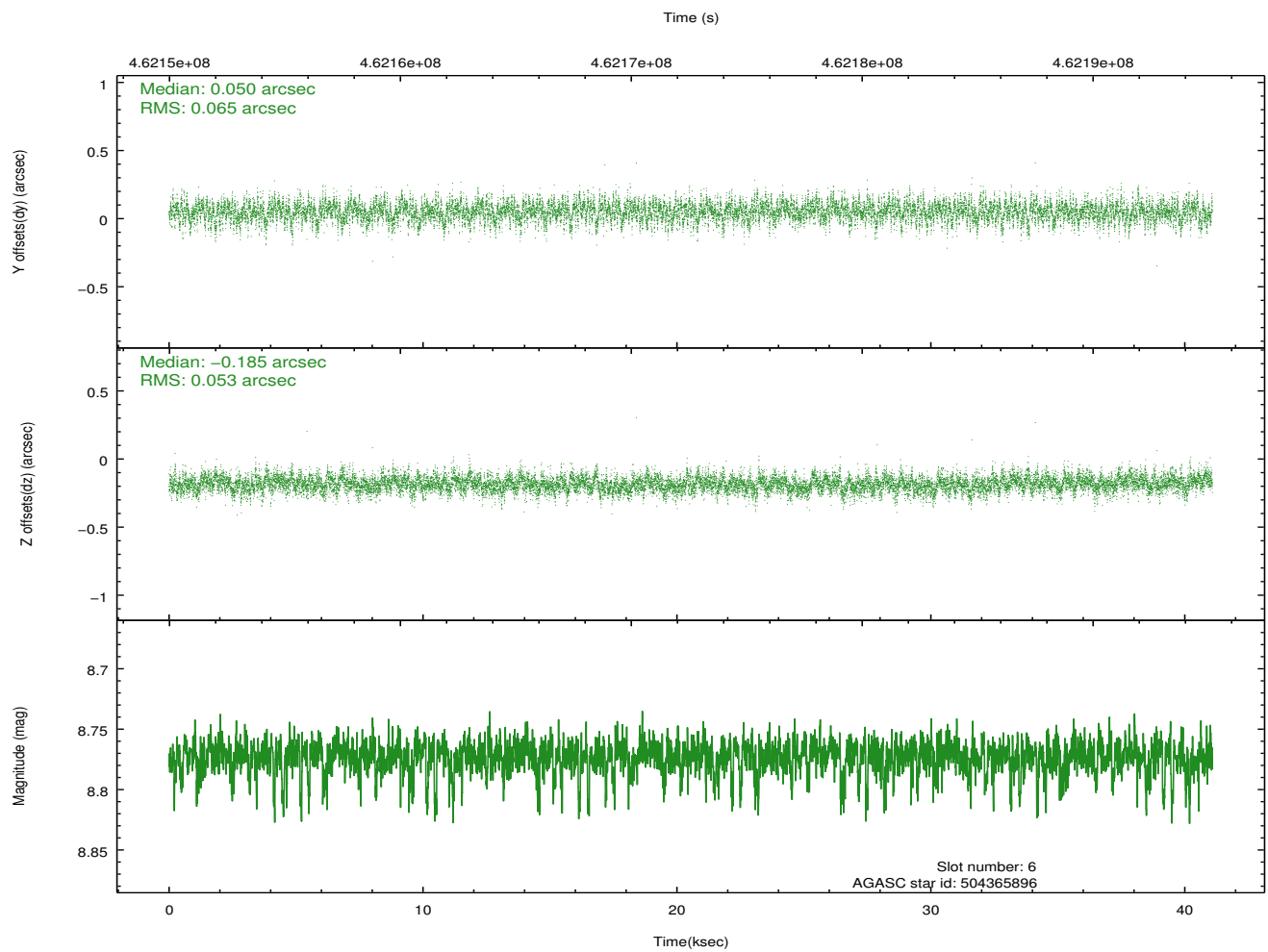
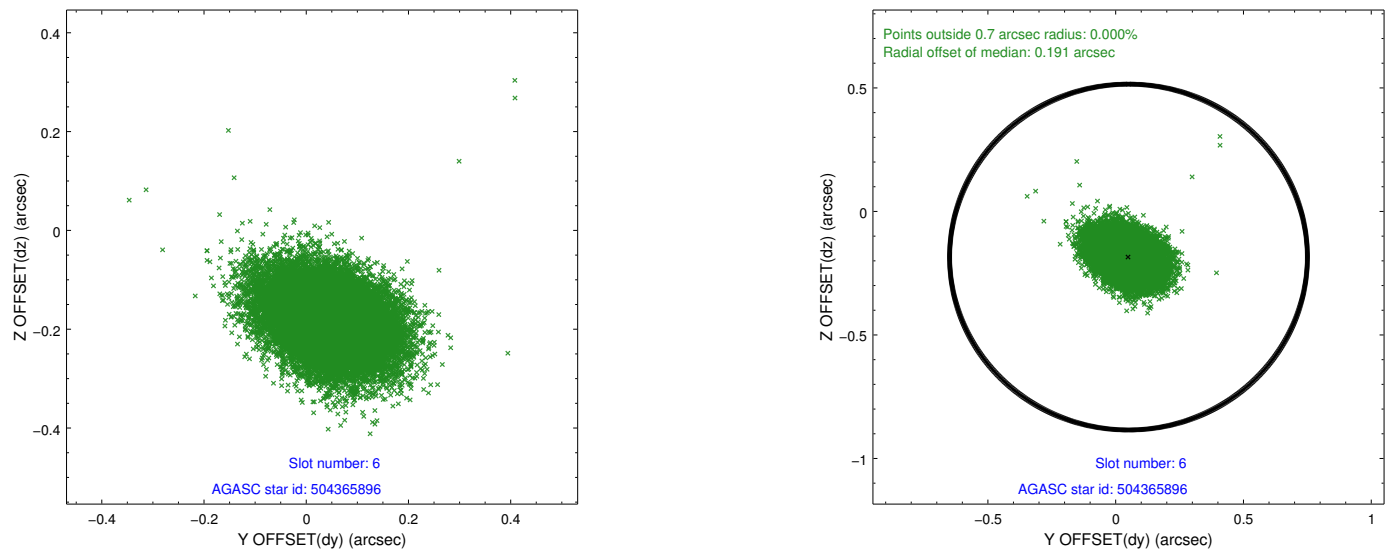
2.4.2 Slot 4



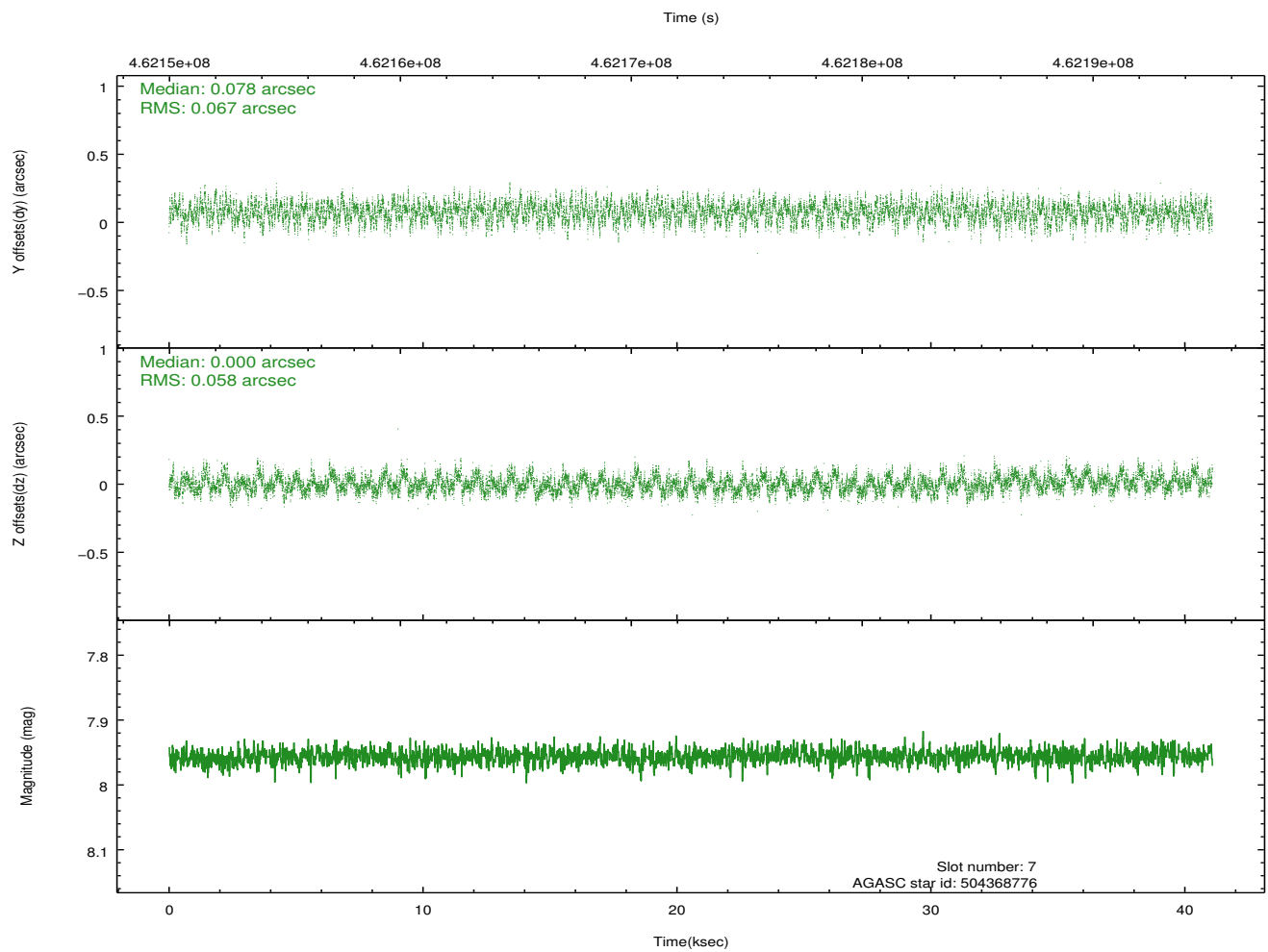
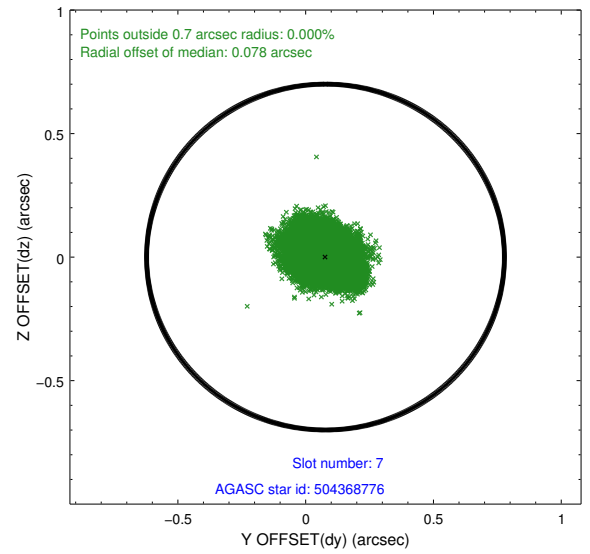
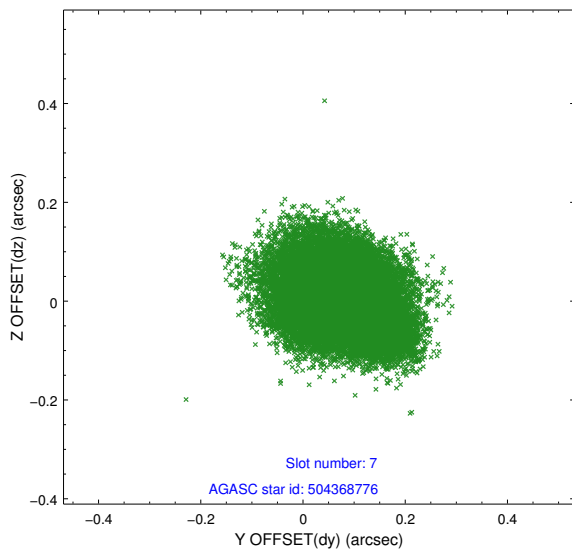
2.4.3 Slot 5



2.4.4 Slot 6

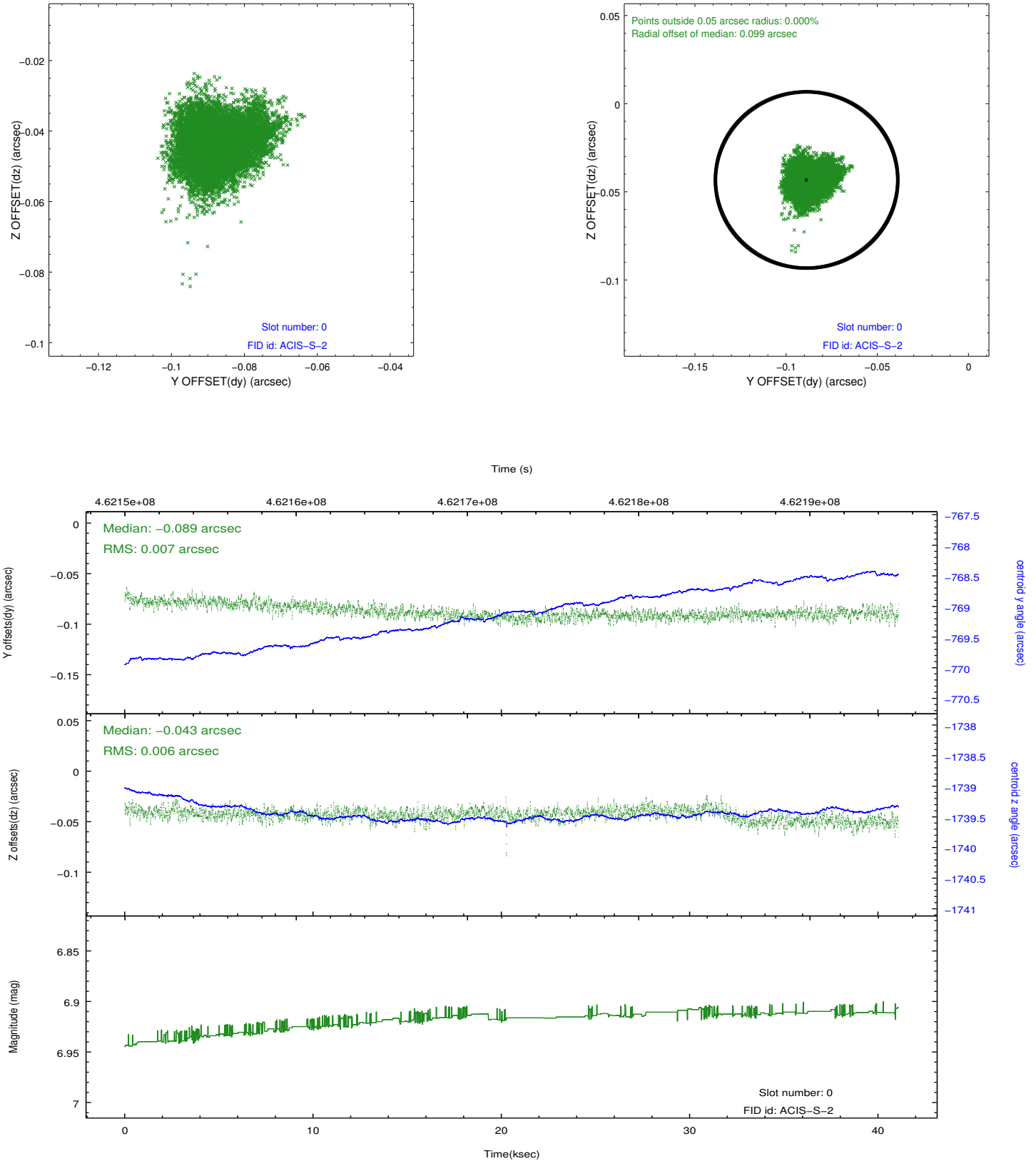


2.4.5 Slot 7

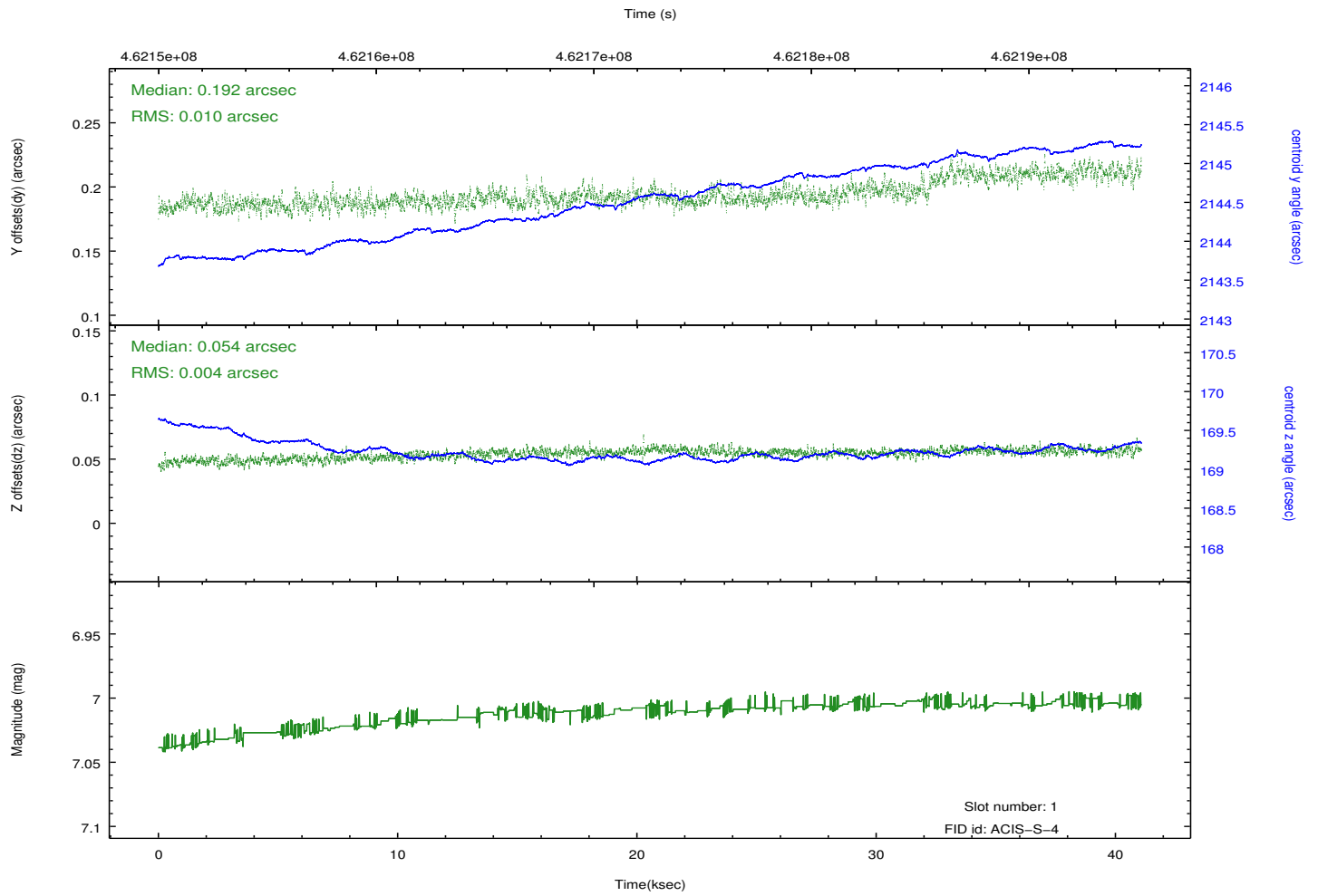
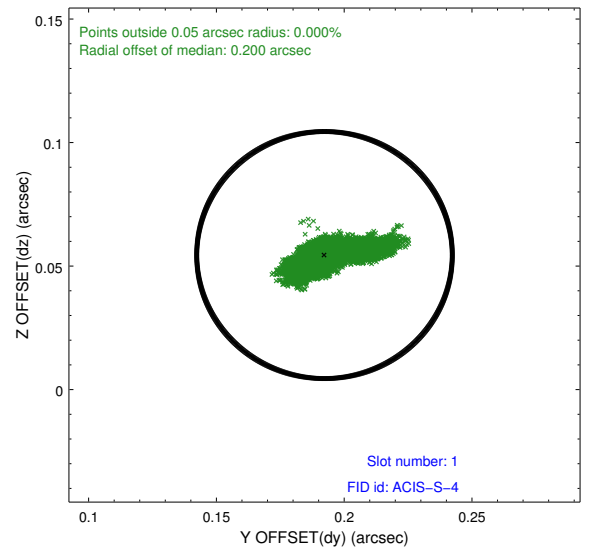
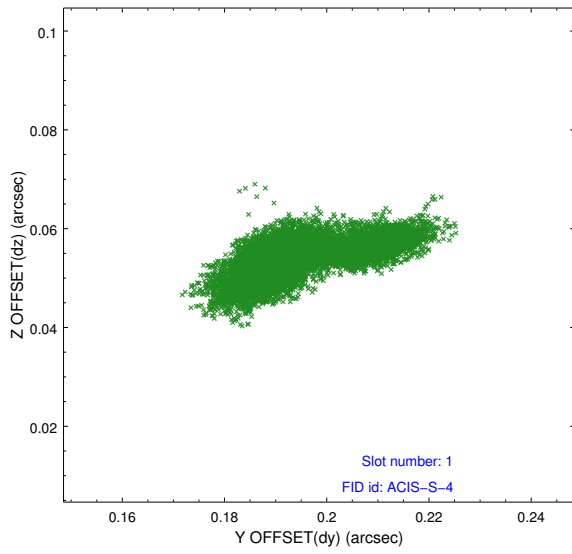


2.5 FID Slots

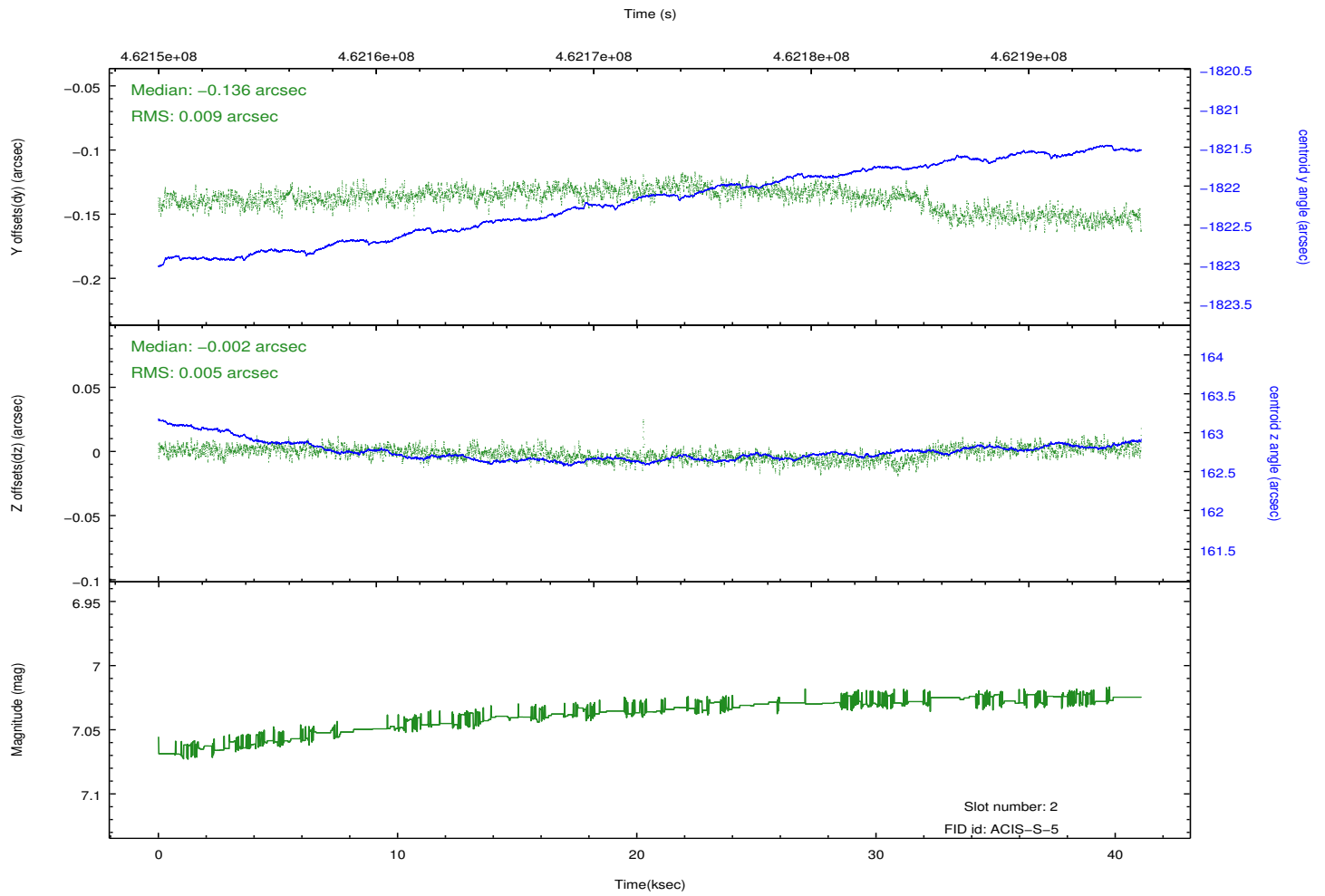
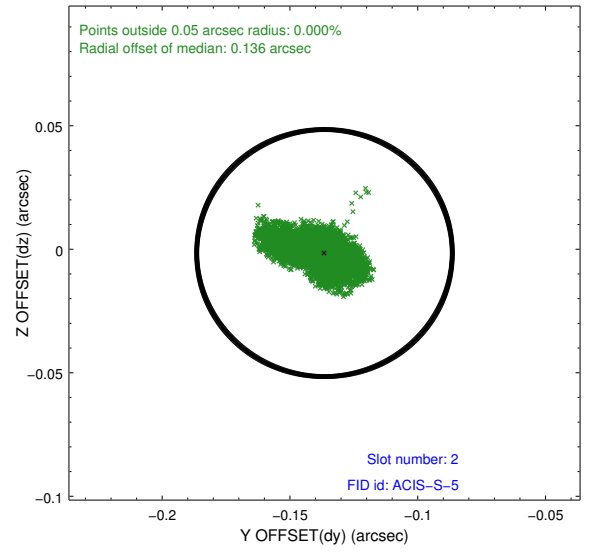
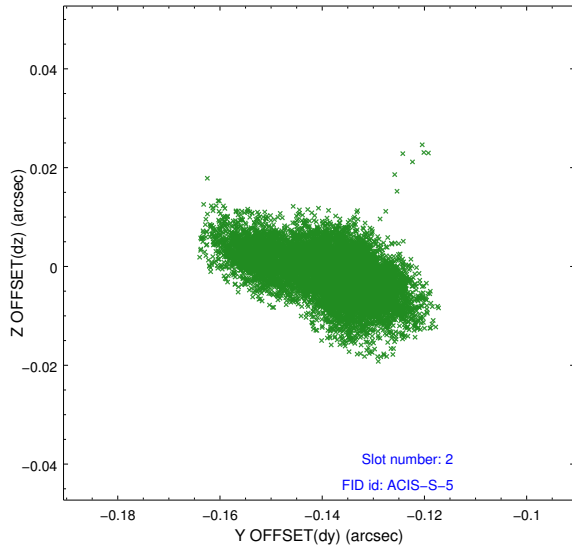
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.08.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.973399712741

A.2 Comments