

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 14203 - L2 Version 2
Chandra X-Ray Center

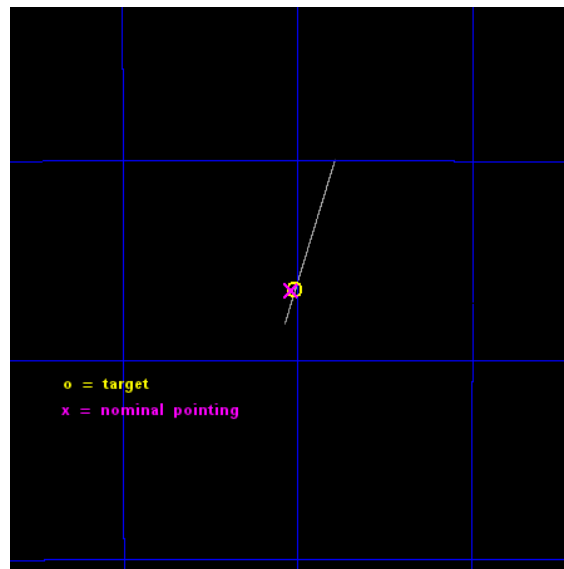
L2 Processing Date : Dec 2 2014

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1 Front

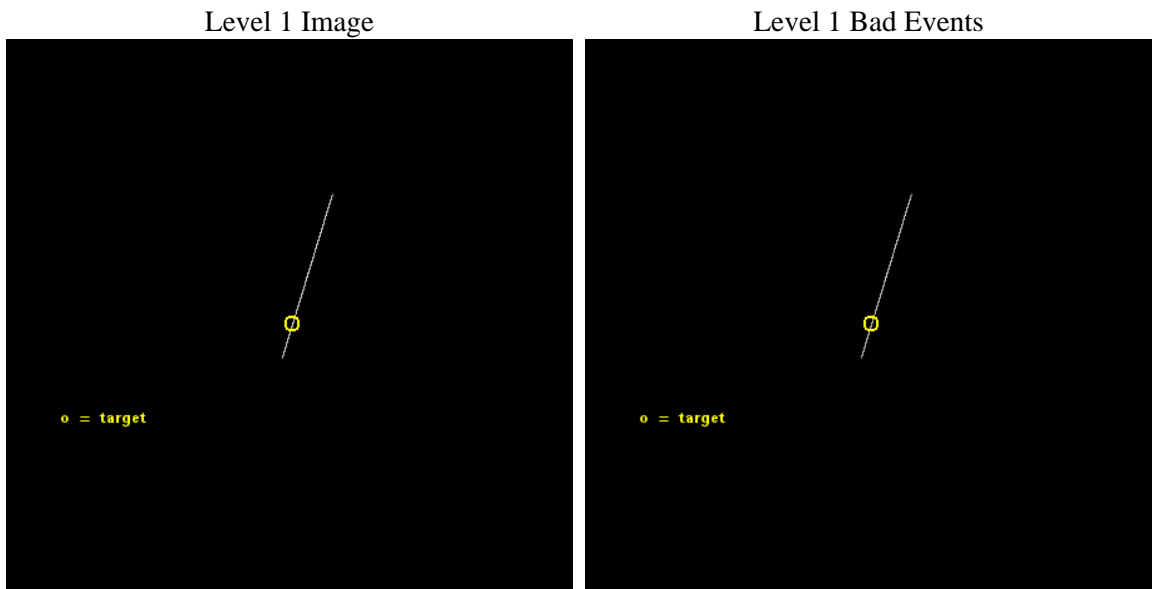
seq_num	501780	Sequence number
obs_id	14203	Observation id
title	Measuring the Spin-Down and Dipole Magnetic Field of the CCO Pulsar 1E 1207.4-5209	Proposal title
observer	Prof. Jules Halpern	Principal investigator
object	1E1207.4-5209	Source name
ra_targ	182.50375	Observer's specified target RA [deg]
dec_targ	-52.441222	Observer's specified target Dec [deg]
ra_nom	182.50854473176	Nominal RA [deg]
dec_nom	-52.441998219207	Nominal Dec [deg]
roll_nom	287.67250074224	Nominal Roll [deg]
revision	2	Processing version of data
ontime	33177.75	Sum of GTIs [s]
livetime	33048.149414062	Livetime [s]
ontime7	33177.75	Sum of GTIs [s]
l2events	115085	Number of level 2 events



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	33000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	33177.75	Sum of GTIs [s]
caldbver	4.6.4	 	ontime7	33177.75	Sum of GTIs [s]
date	2014-12-03T03:55:21	Date and time of file creation	l1events	348188	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

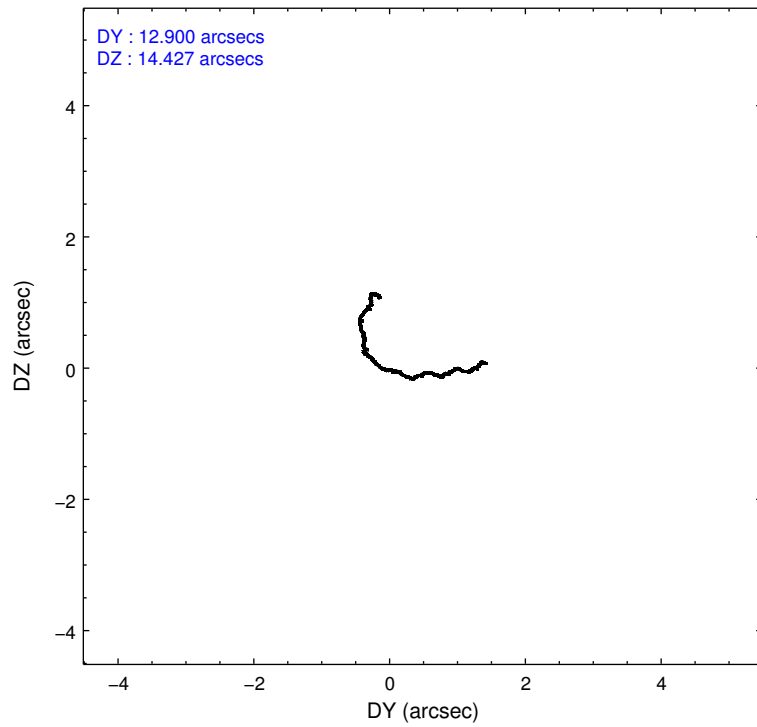
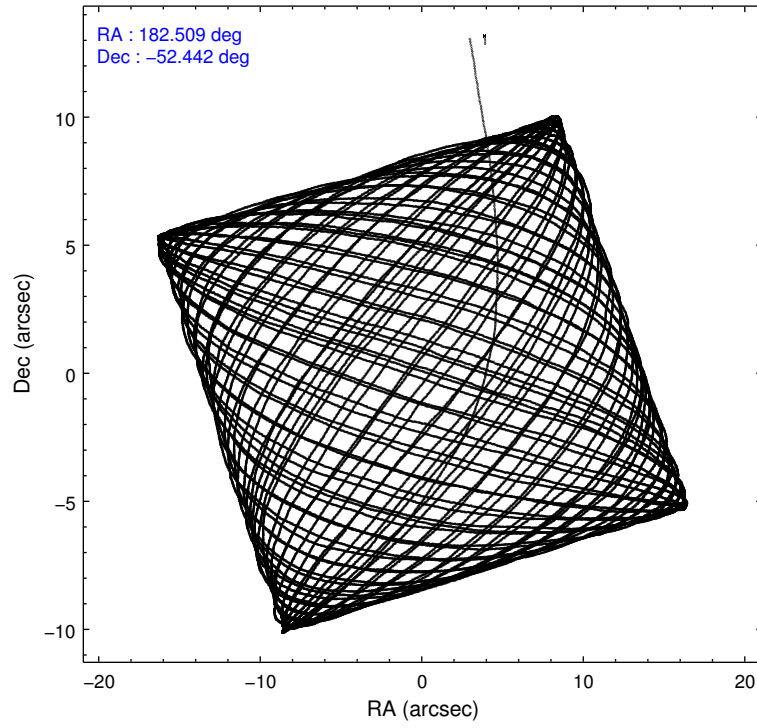
	ccd 7
level 1 events	348188
rejected events	228624
rejected %	65%

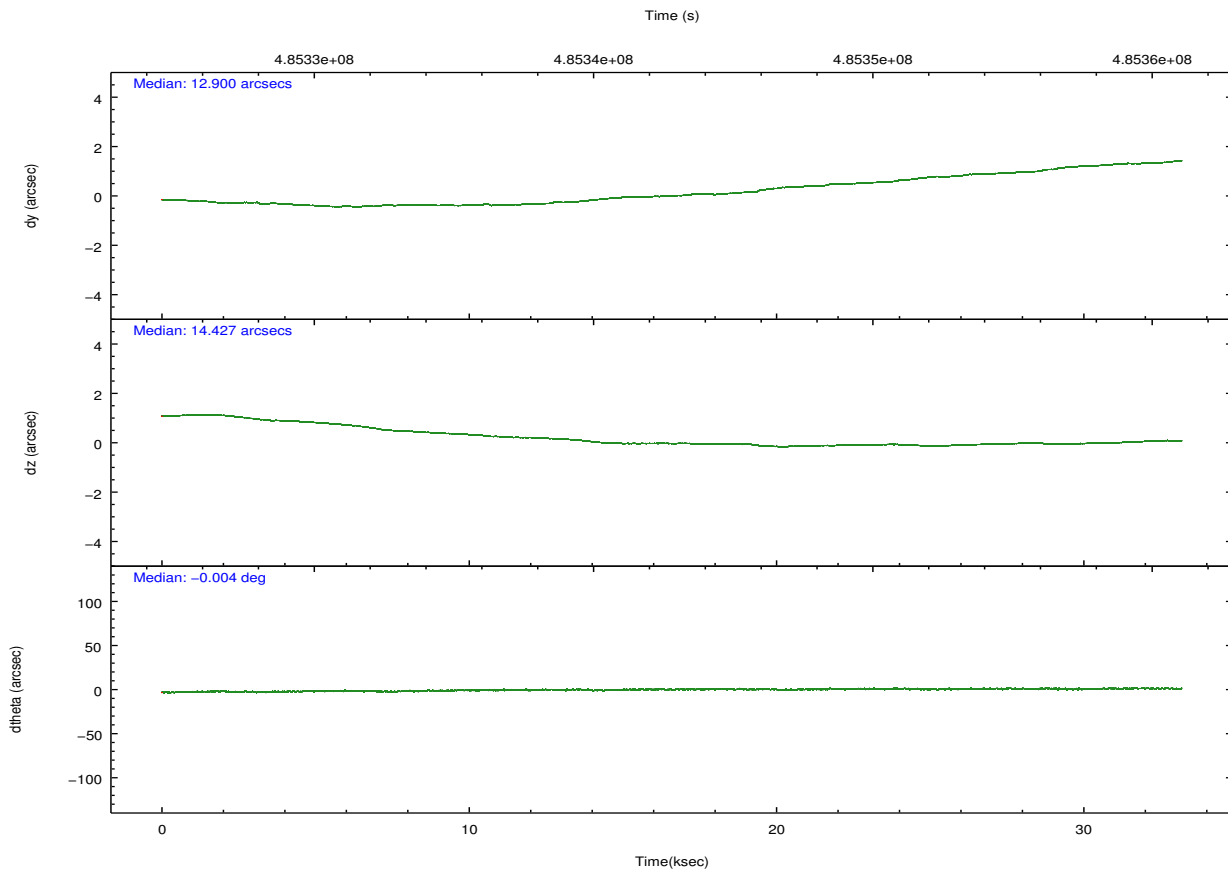
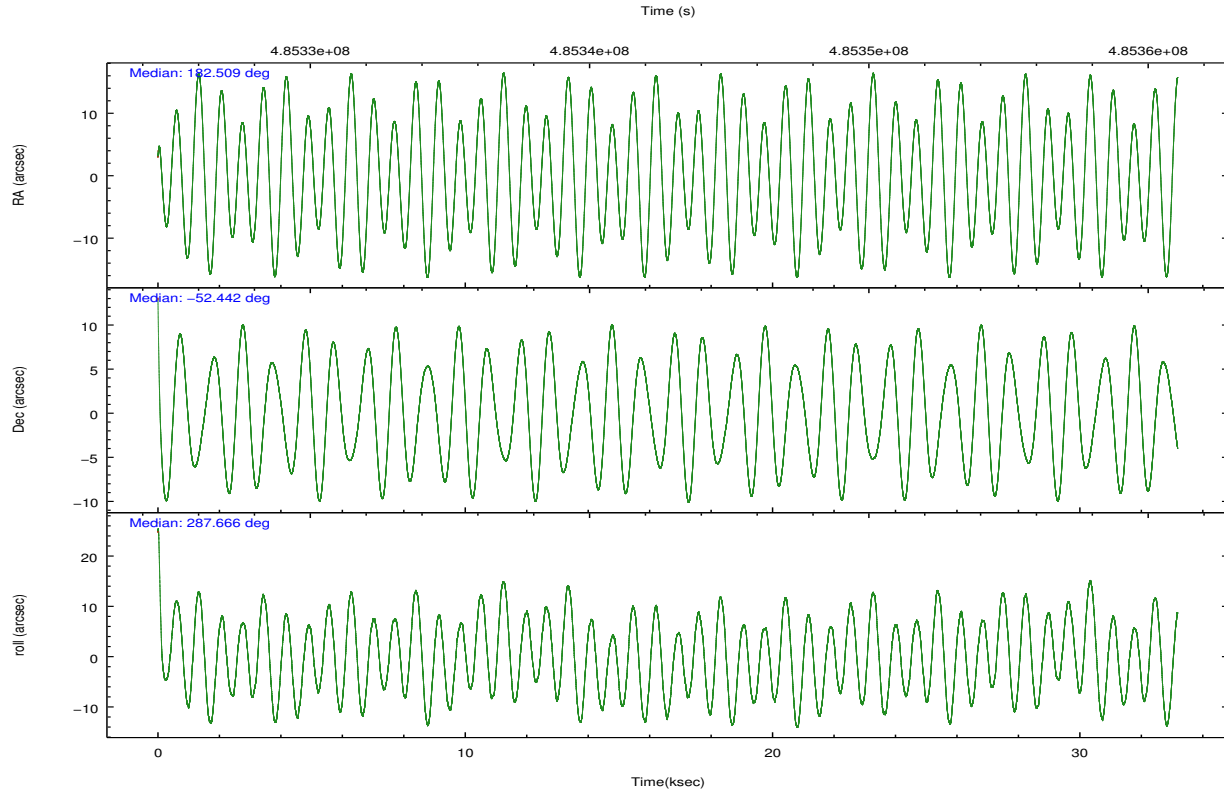
	ccd 7
grade 0 events	12217
	3%
grade 1 events	316
	0%
grade 2 events	33053
	9%
grade 3 events	6970
	2%
grade 4 events	6913
	1%
grade 5 events	20586
	5%
grade 6 events	60602
	17%
grade 7 events	207531
	59%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	CC33_FAINT	CC33_FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	182.474992	182.5085447317574	Subarray requested	NONE	NONE
[deg] Pointing Dec	-52.423849	-52.44199821920669	Alternating exposures requested	N	N
[deg] Pointing Roll	287.489267	287.6725007422425	[s] Primary exposure time	0.000000	0
[s] Window start time (MET)	483753667.184000	483753667.184000			
[s] Window stop time (MET)	488937667.184000	488937667.184000			
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	485326390.184000	485325326.96183			
Observation start date	2013-05-19T04:52:03	2013-05-19T04:35:26			
[s] Observation end time (MET)	485359390.184000	485359799.7637			
Observation end date	2013-05-19T14:02:03	2013-05-19T14:09:59			
Read mode	CONTINUOUS	CONTINUOUS			

2.3 Aspect





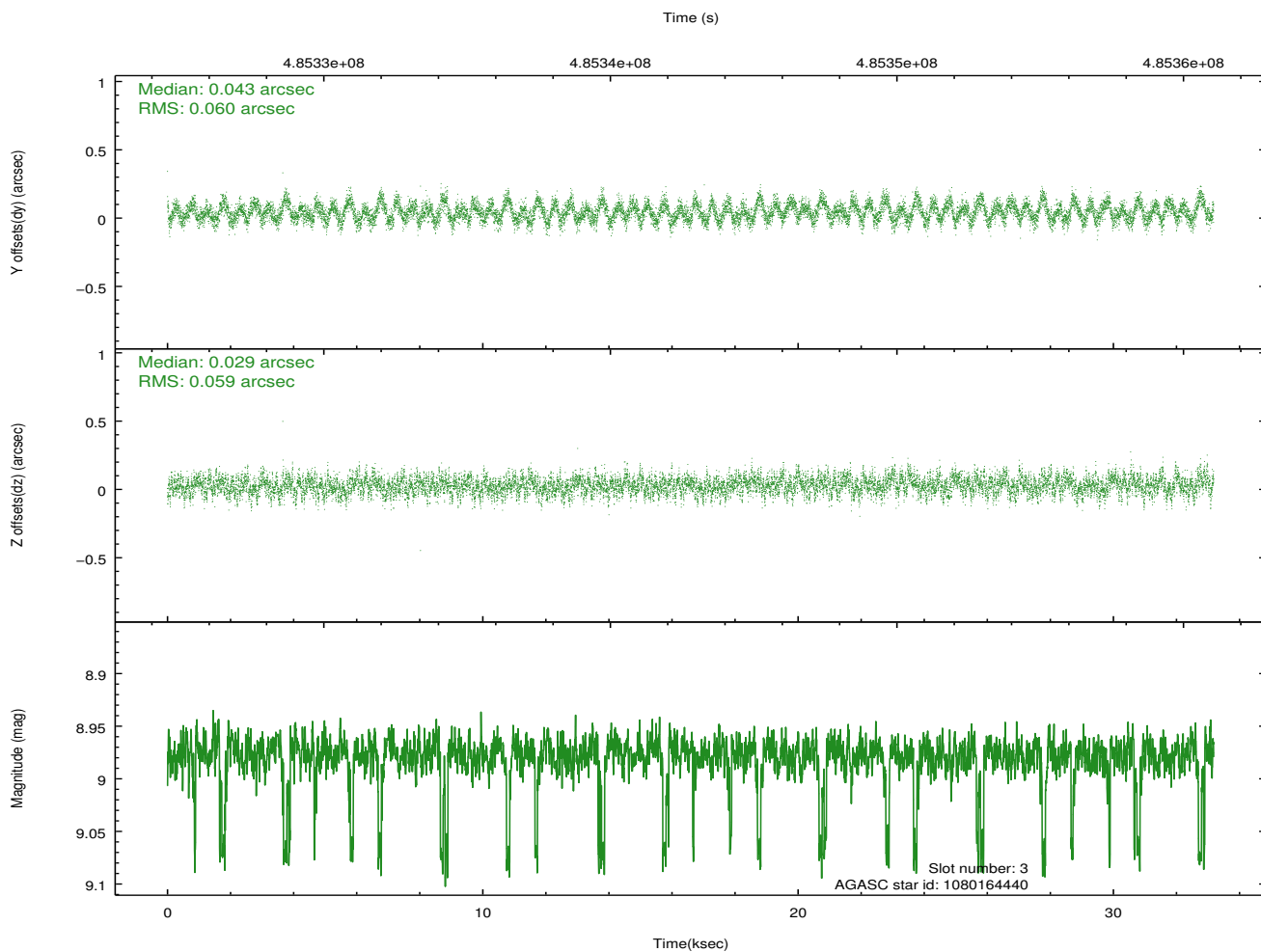
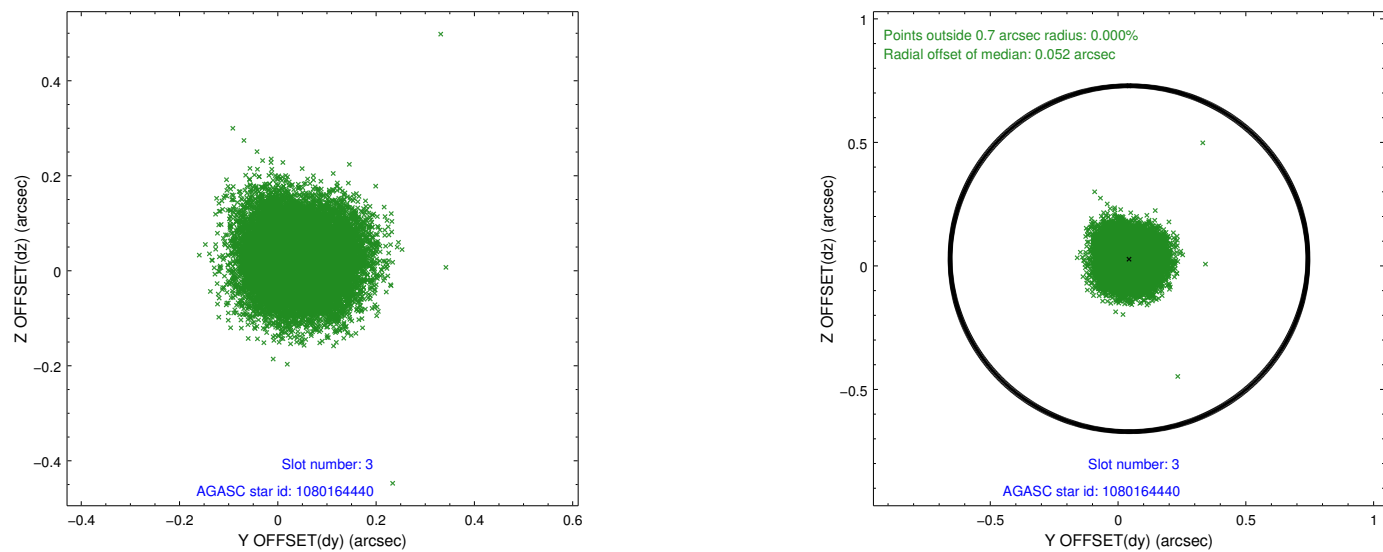
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.97	8093	-0.060	-0.028	0.018	0.034	0.000000	0.000000	-766.08	-1736.00
1	FID		ACIS-S-4	7.06	8094	0.200	0.035	0.022	0.063	0.000000	0.000000	2147.43	172.51
2	FID		ACIS-S-5	7.09	8093	-0.176	-0.003	0.020	0.028	0.000000	0.000000	-1818.99	166.17
3	GUIDE	used	1080164440	8.98	16123	0.043	0.029	0.091	0.144	181.986340	-52.264623	-866.42	-855.75
4	GUIDE	used	1131414168	8.95	16180	-0.111	-0.082	0.081	0.131	183.224863	-52.915912	2186.79	1017.78
5	GUIDE	used	1131423616	8.84	16184	-0.213	-0.047	0.129	0.192	182.073492	-52.590429	310.68	-1018.41
6	GUIDE	used	1131424824	9.27	16111	0.189	-0.002	0.093	0.151	181.758646	-52.547110	-39.97	-1631.48
7	GUIDE	used	1131554032	9.51	16109	0.098	0.096	0.116	0.188	183.691785	-52.744006	1917.68	2176.32

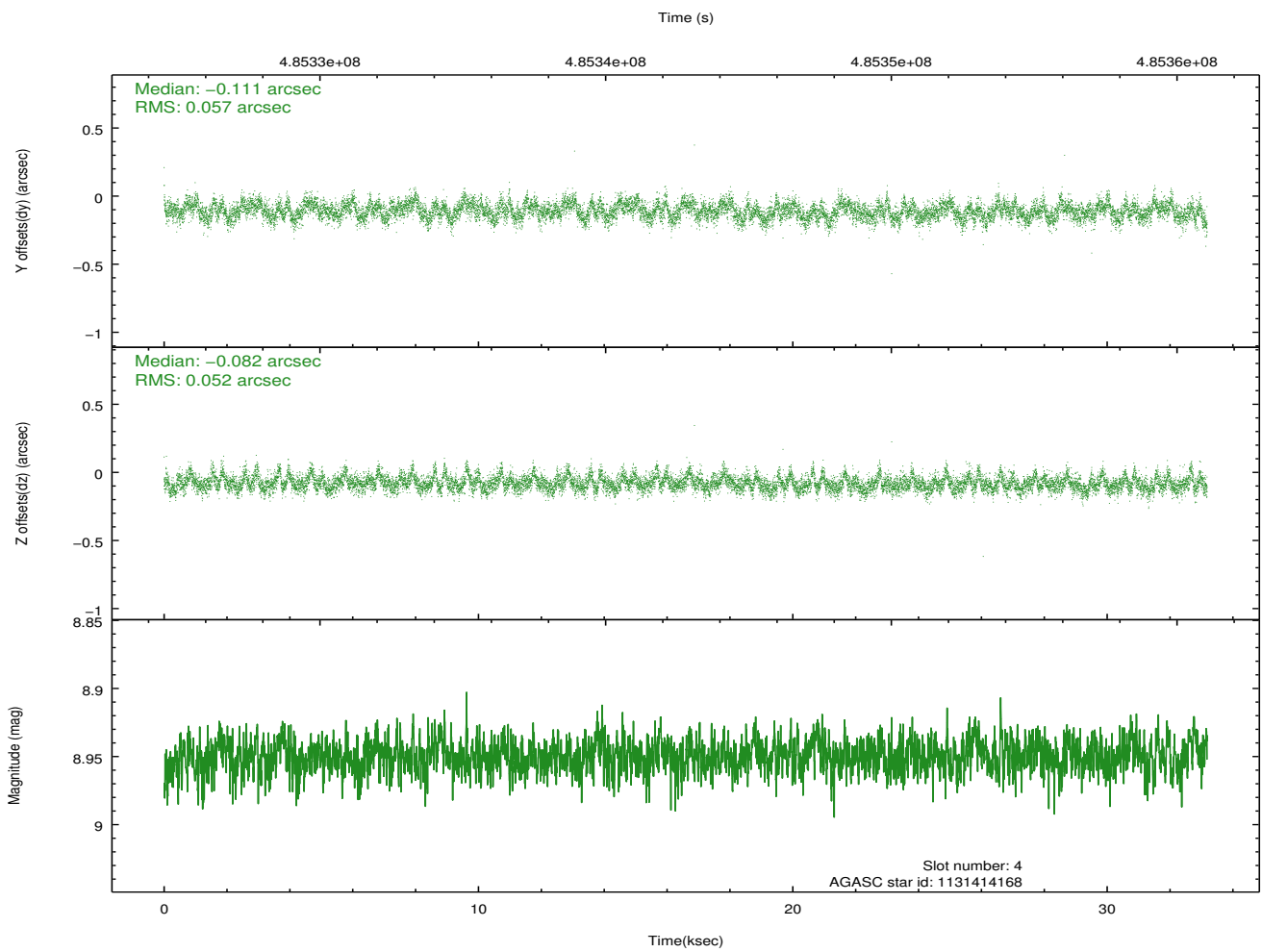
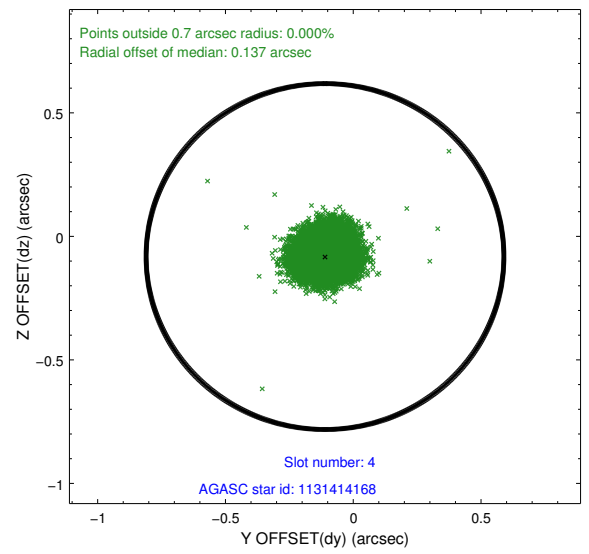
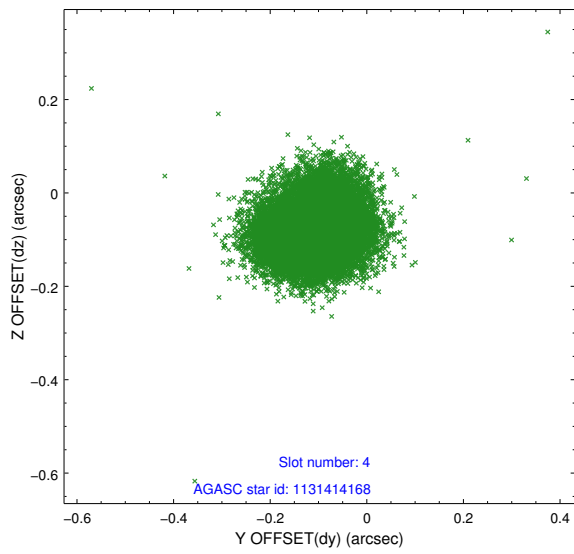
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2.4 Star Slots

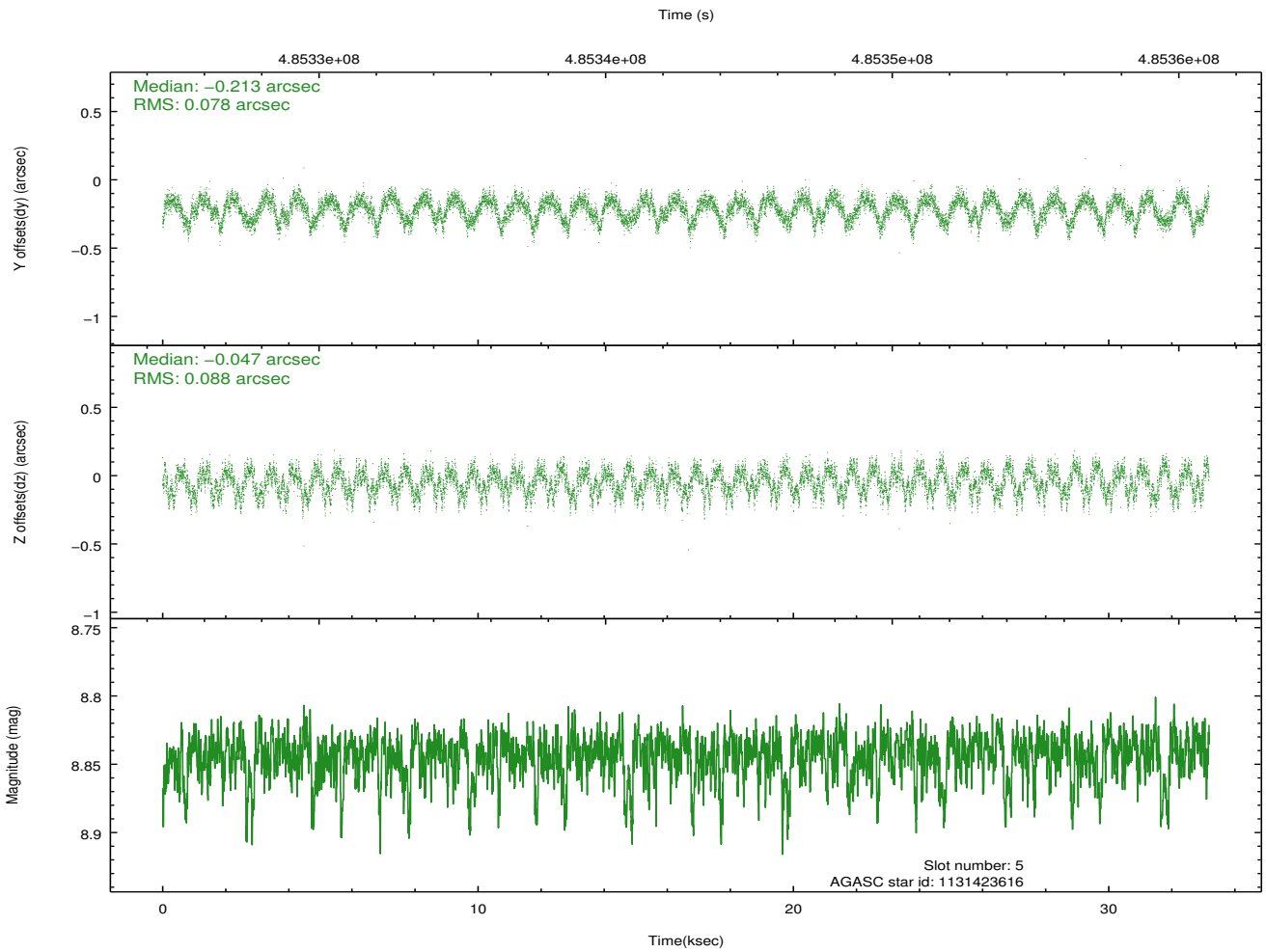
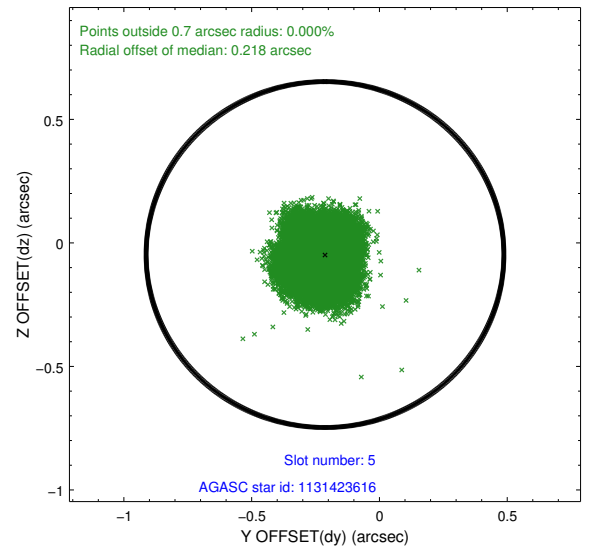
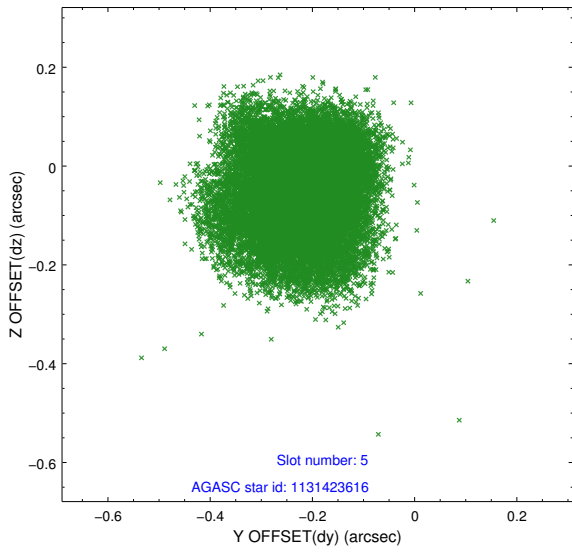
2.4.1 Slot 3



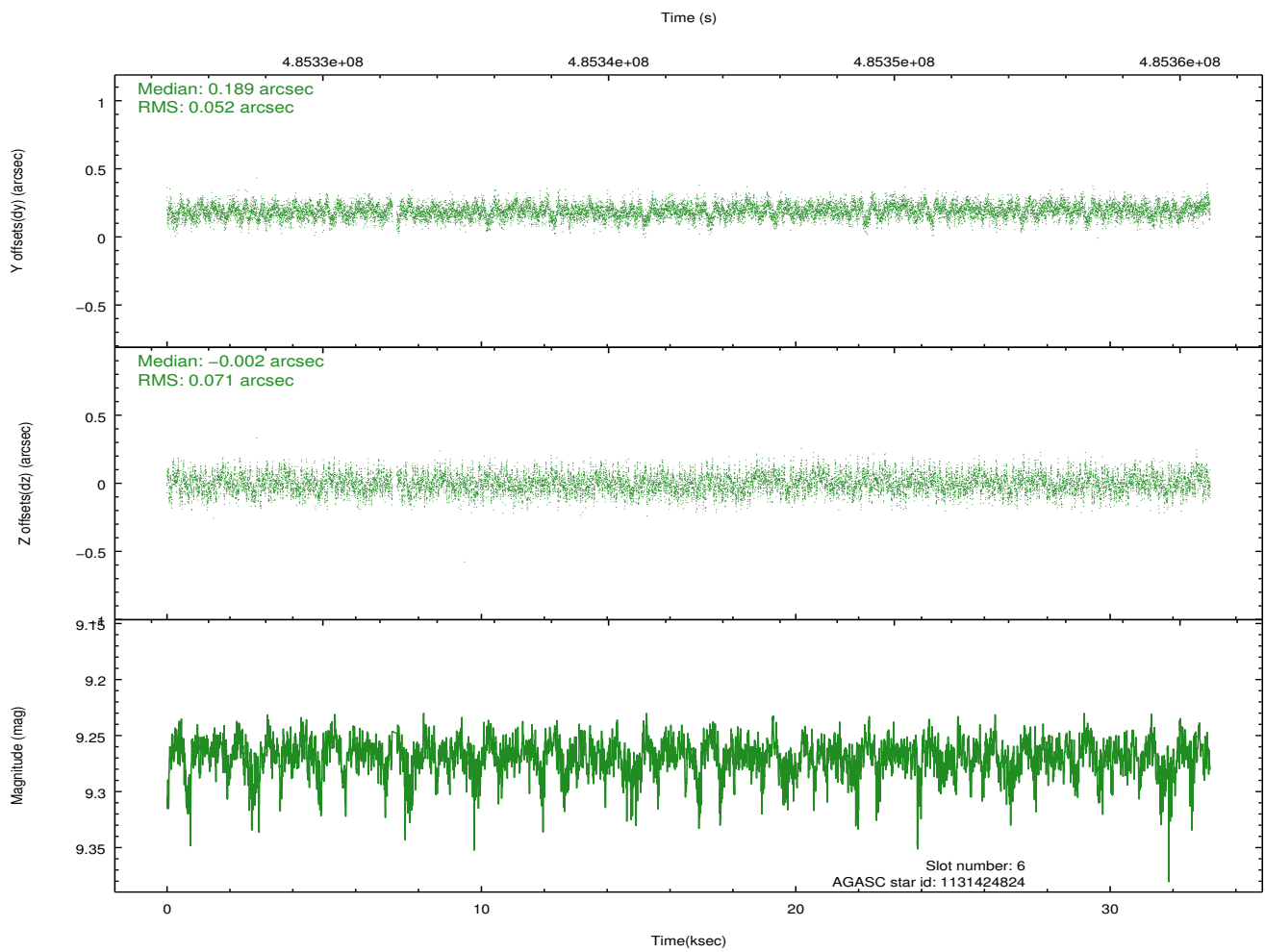
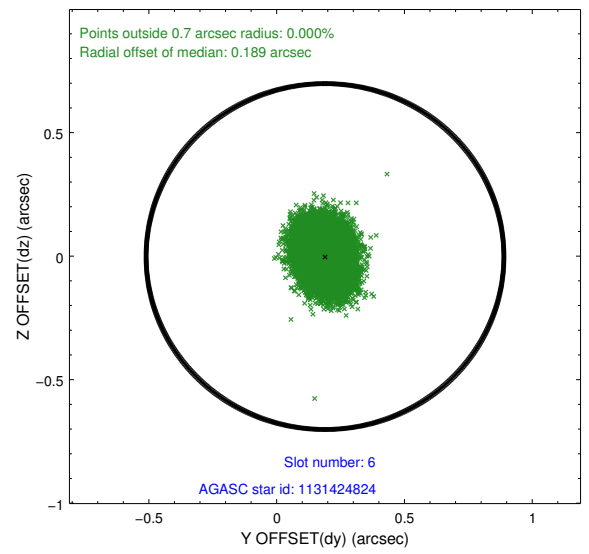
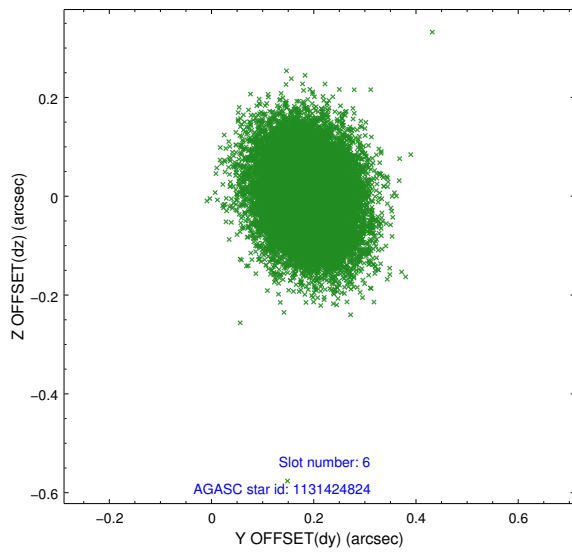
2.4.2 Slot 4



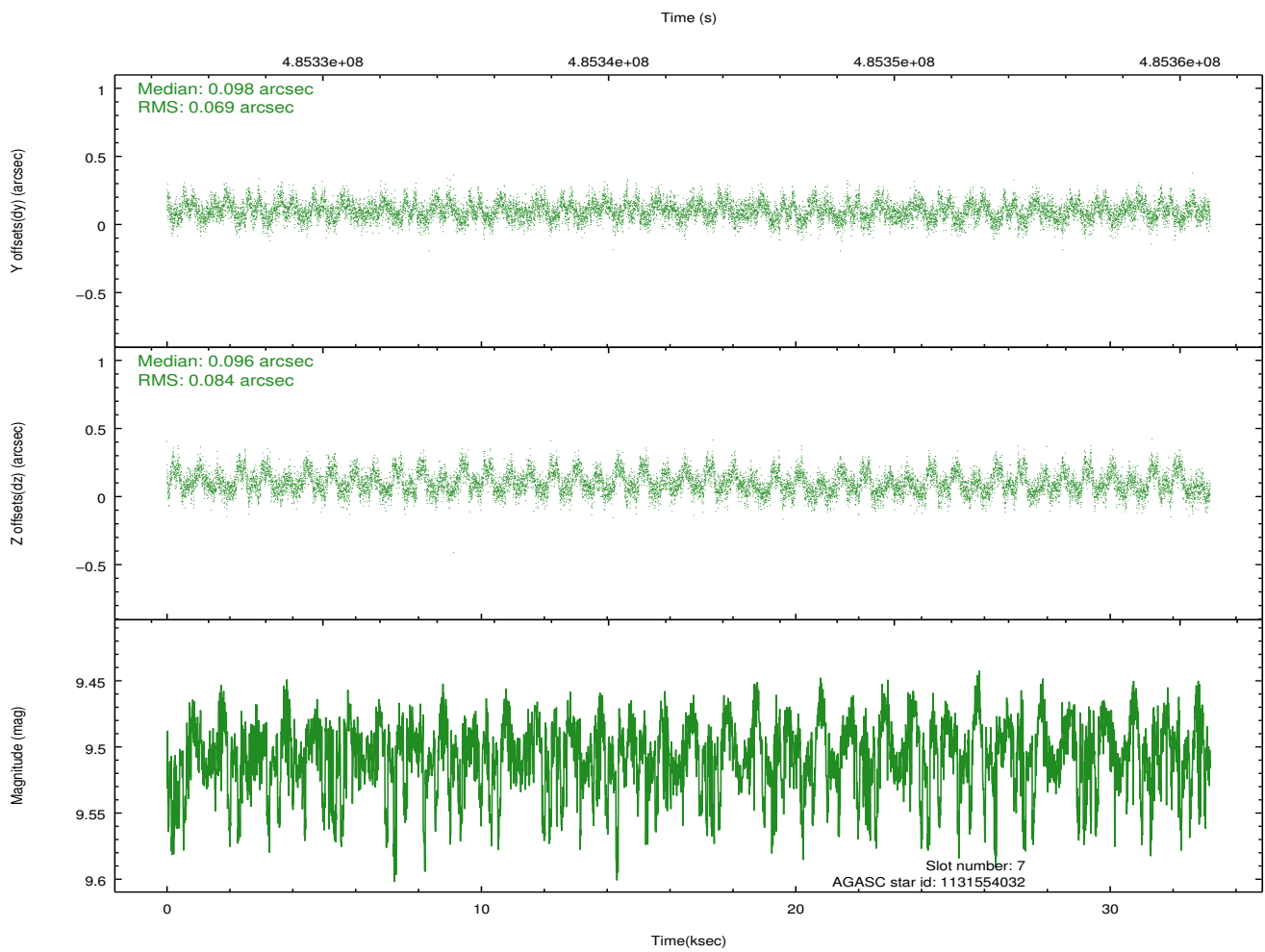
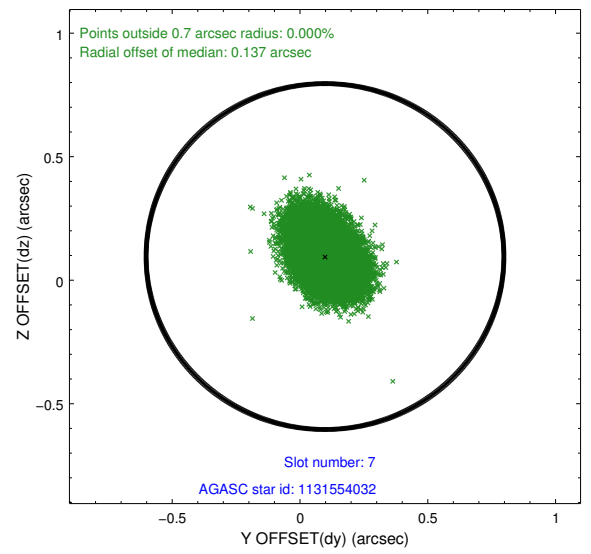
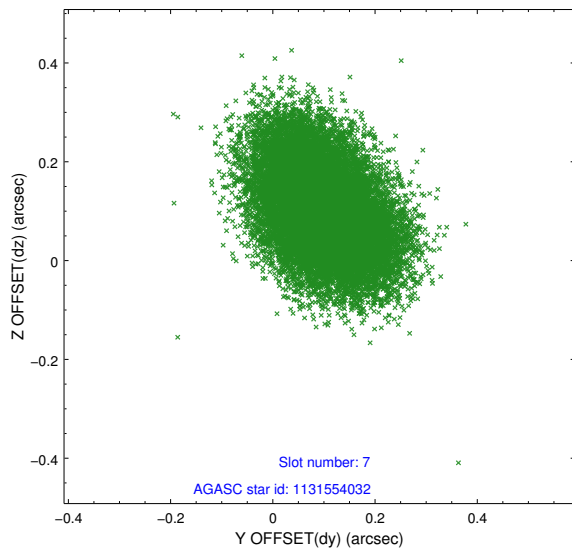
2.4.3 Slot 5



2.4.4 Slot 6

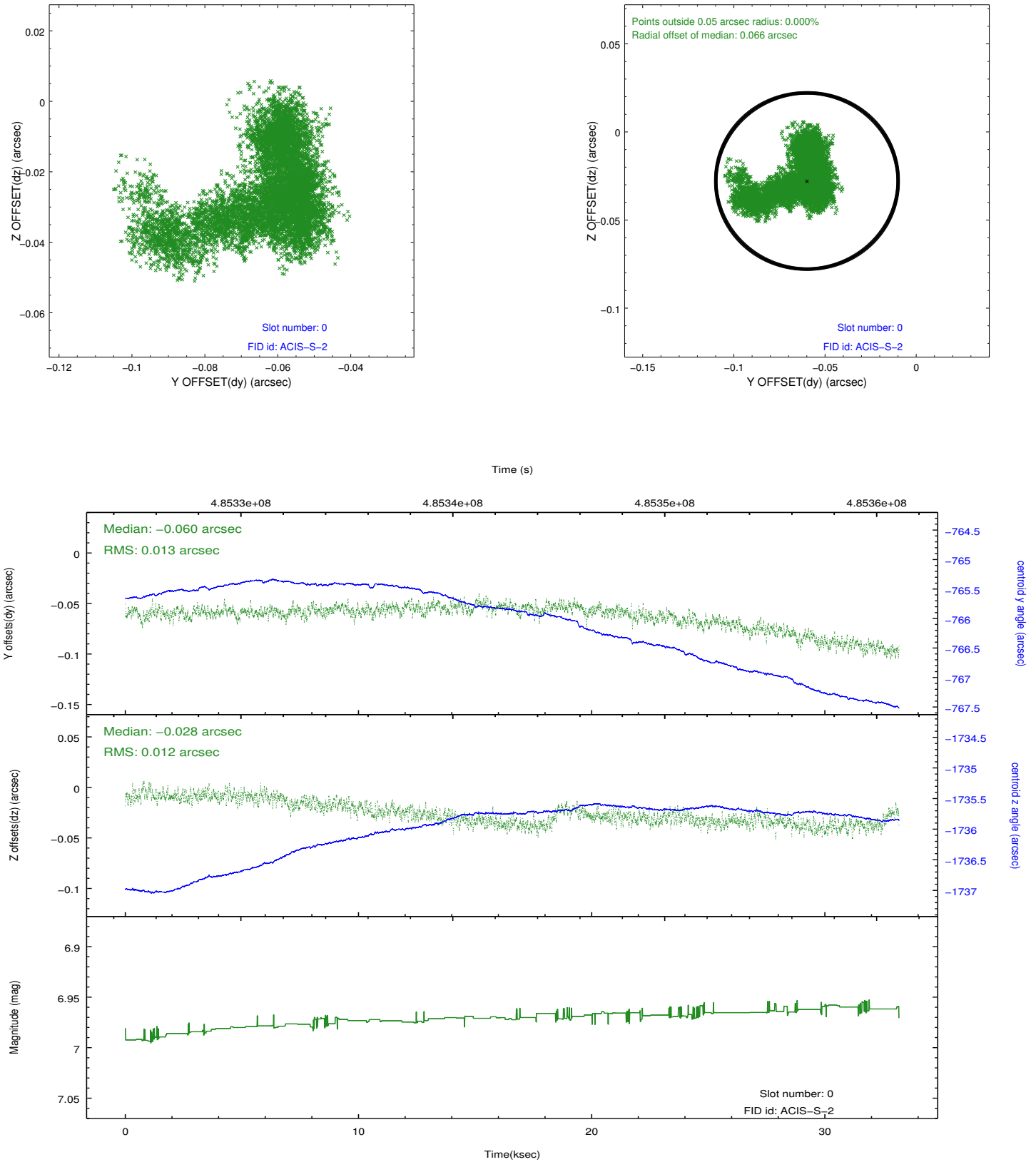


2.4.5 Slot 7

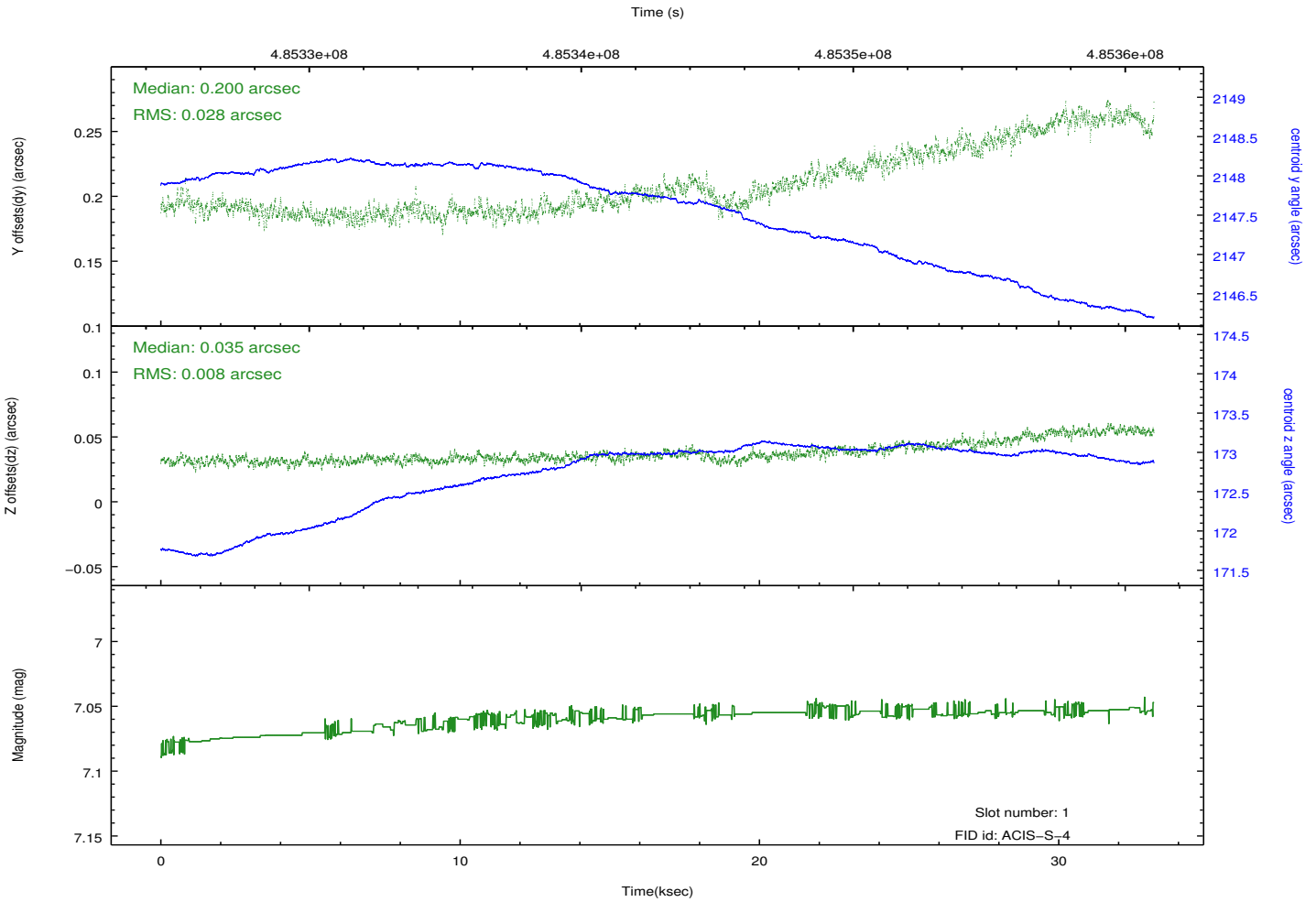
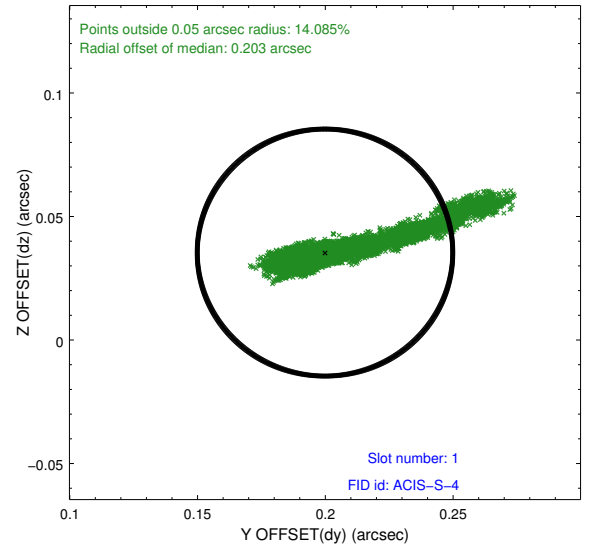
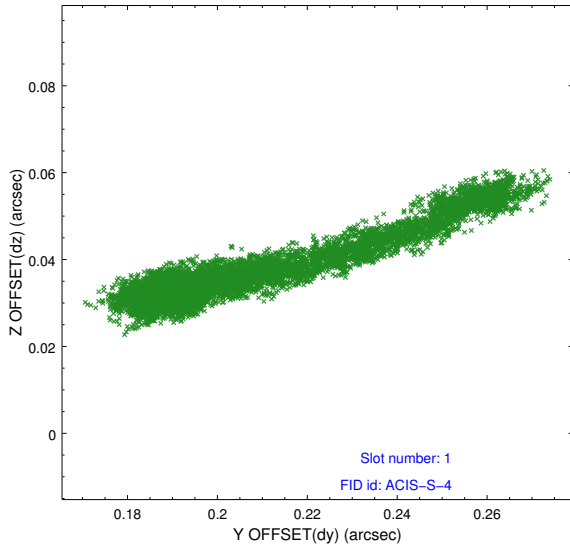


2.5 FID Slots

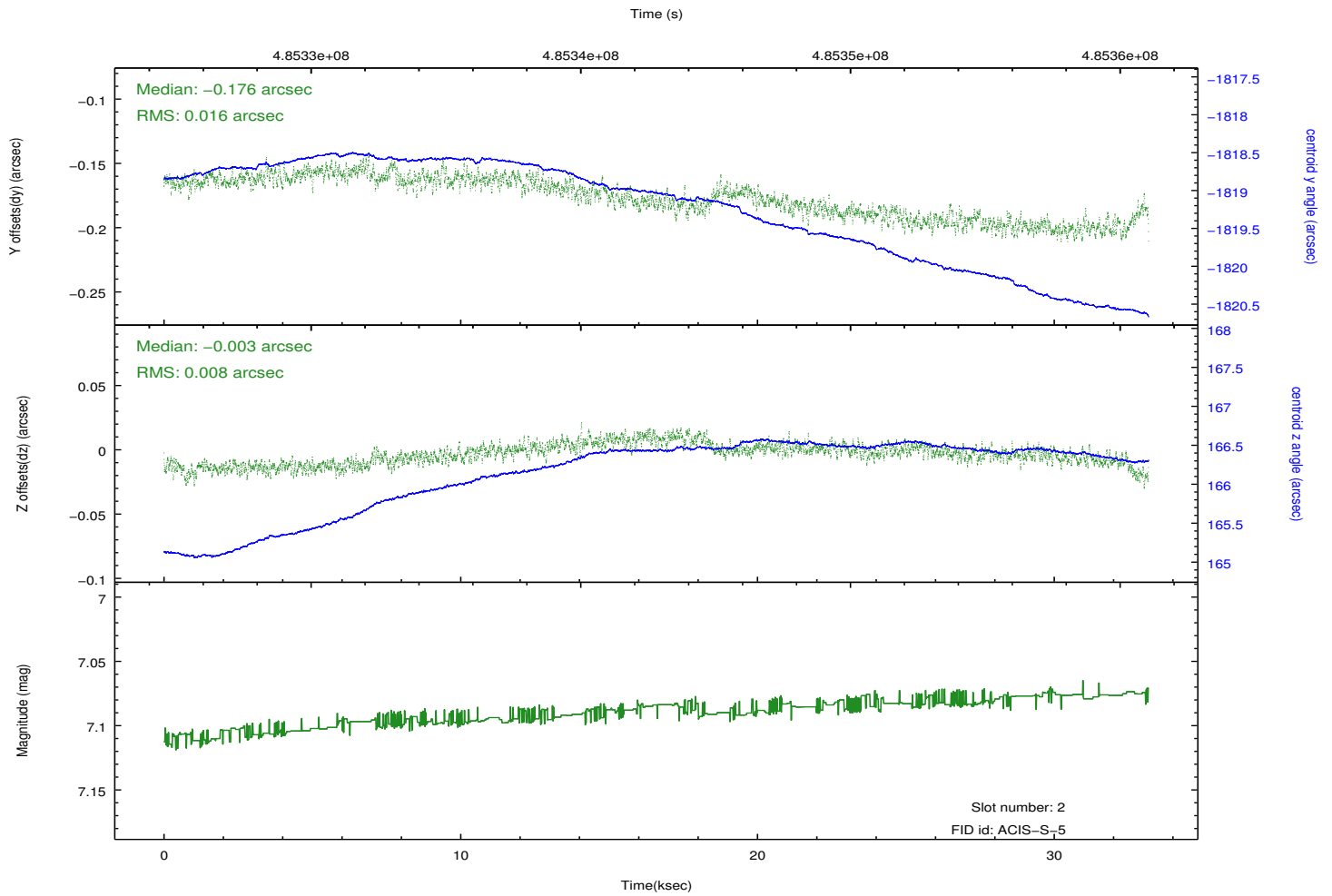
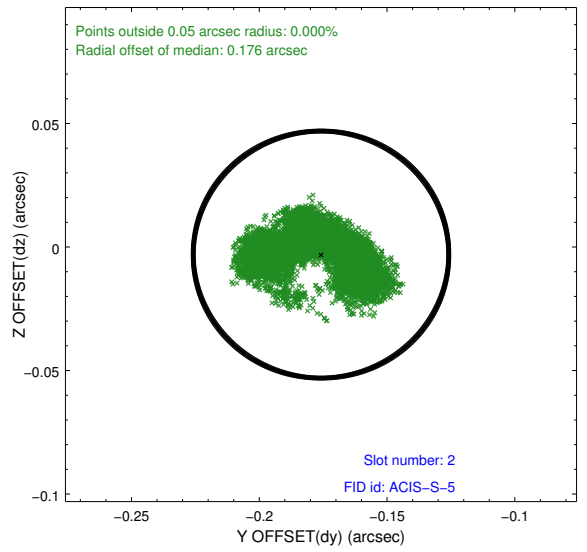
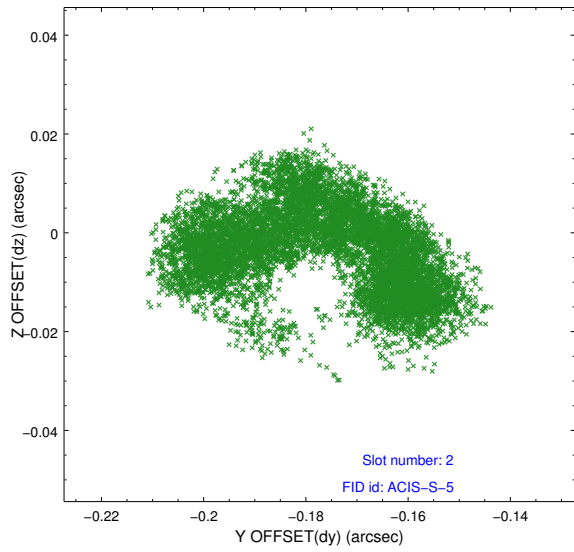
2.5.1 Slot 0



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)	2014.12.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	33.17775

A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.