

V&V Reference Report

L2 ASCDS Version : 10.3.3

Observation 17639 - L2 Version 1
Chandra X-Ray Center

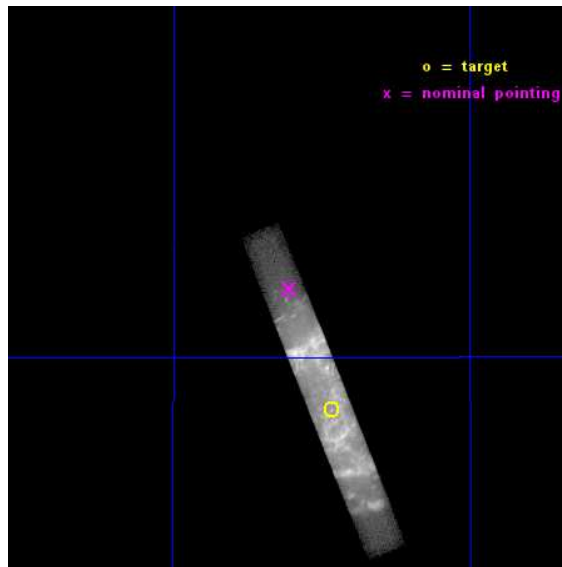
L2 Processing Date : May 2 2015

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1 Front

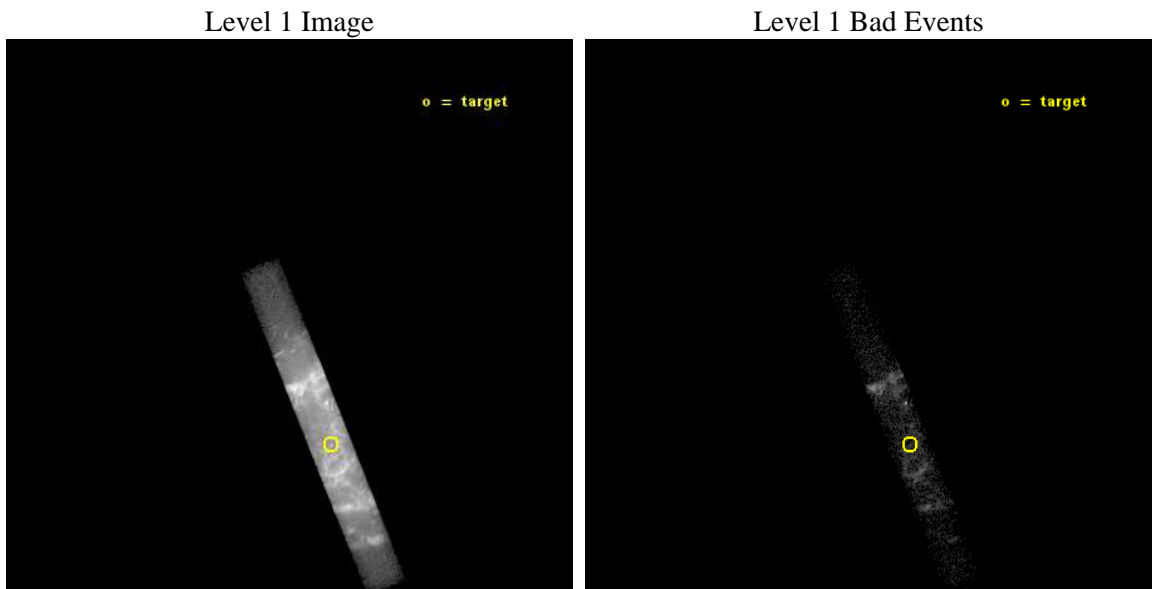
seq_num	502490	Sequence number
obs_id	17639	Observation id
title	Calibration of the ACIS GRADED mode using the Cas A CCO	Proposal t
observer	Dr Bettina Posselt	Principal investigator
object	Cas A CCO	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	350.86625	Observer's specified target RA [deg]
dec_targ	58.811833	Observer's specified target Dec [deg]
ra_nom	350.90187131536	Nominal RA [deg]
dec_nom	58.861441546735	Nominal Dec [deg]
roll_nom	67.126145015128	Nominal Roll [deg]
revision	1	Processing version of data
ontime	47108.715141654	Sum of GTIs [s]
livetime	42725.118031611	Livetime [s]
ontime7	47108.715141654	Sum of GTIs [s]
l2events	1684455	Number of level 2 events



2 OBI

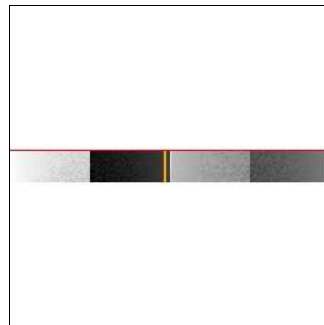
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	50000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	47108.715141654	Sum of GTIs [s]
caldsver	4.6.7	 	ontime7	47108.715141654	Sum of GTIs [s]
date	2015-05-02T04:44:54	Date and time of file creation	l1events	1723213	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

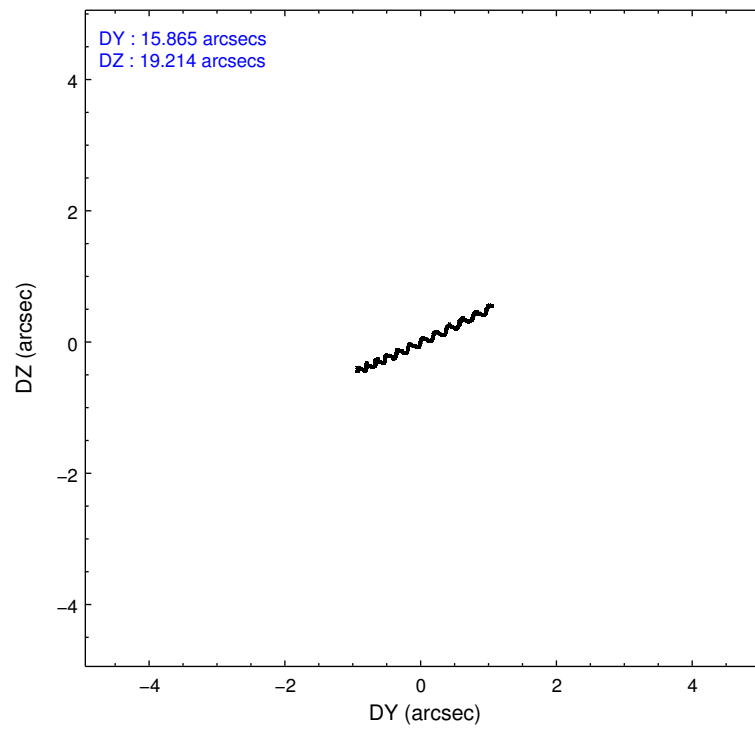
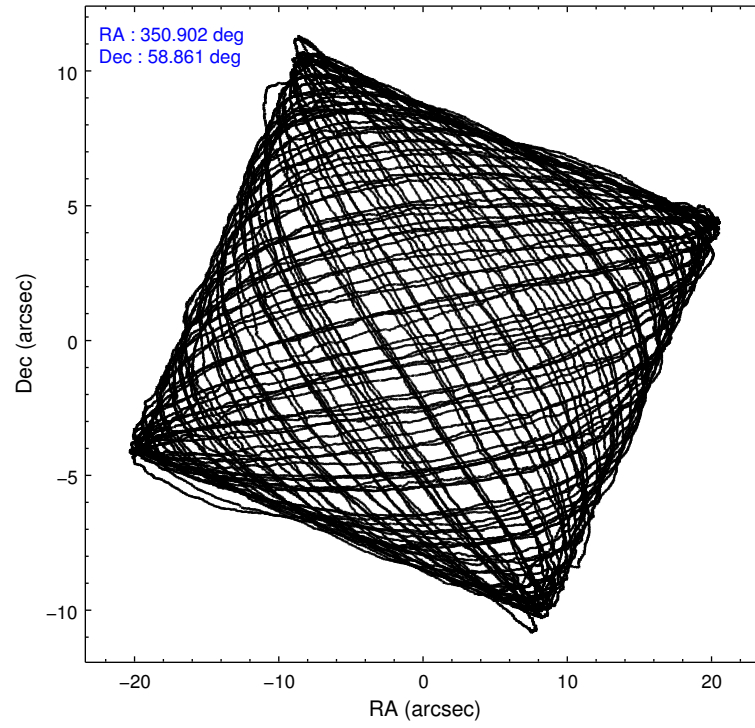
	ccd 7
level 1 events	1723213
rejected events	22553
rejected %	1%

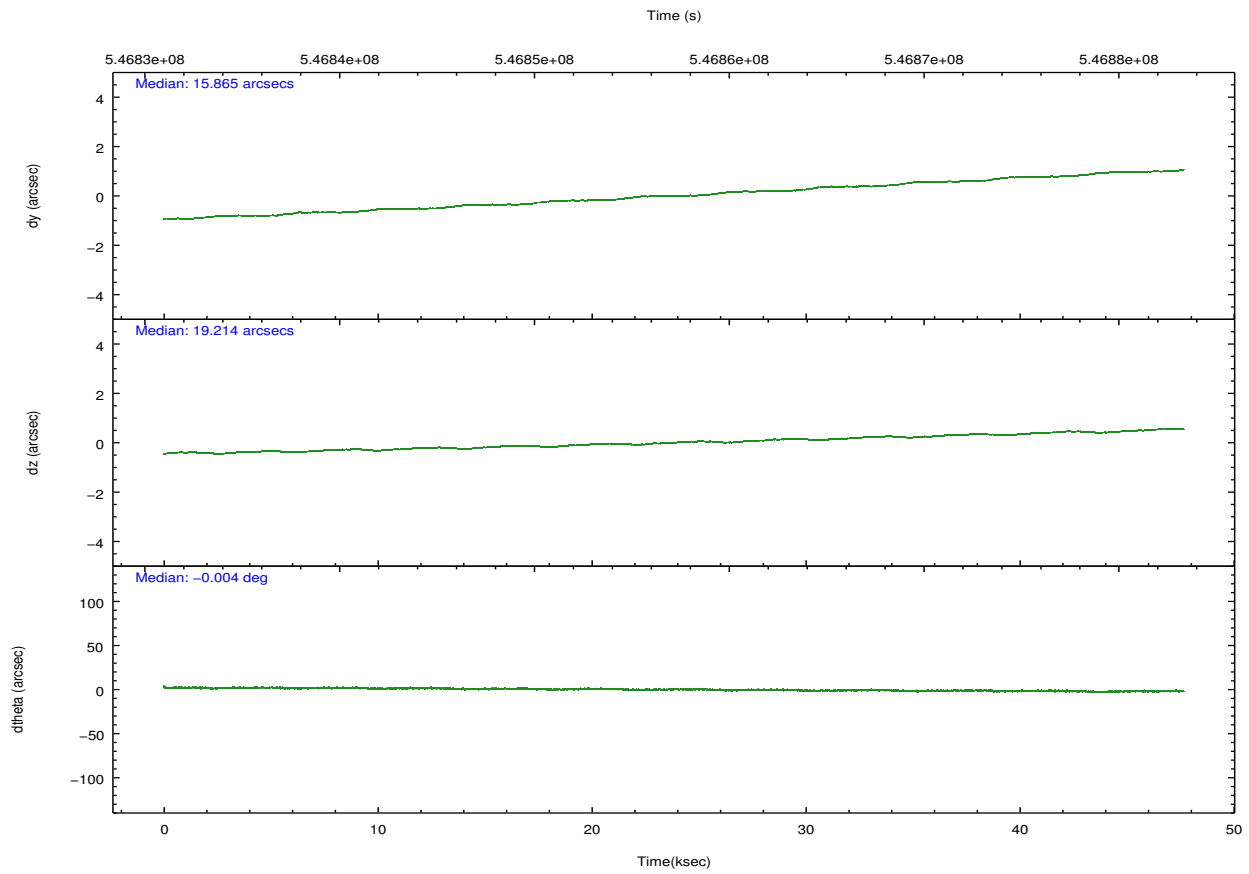
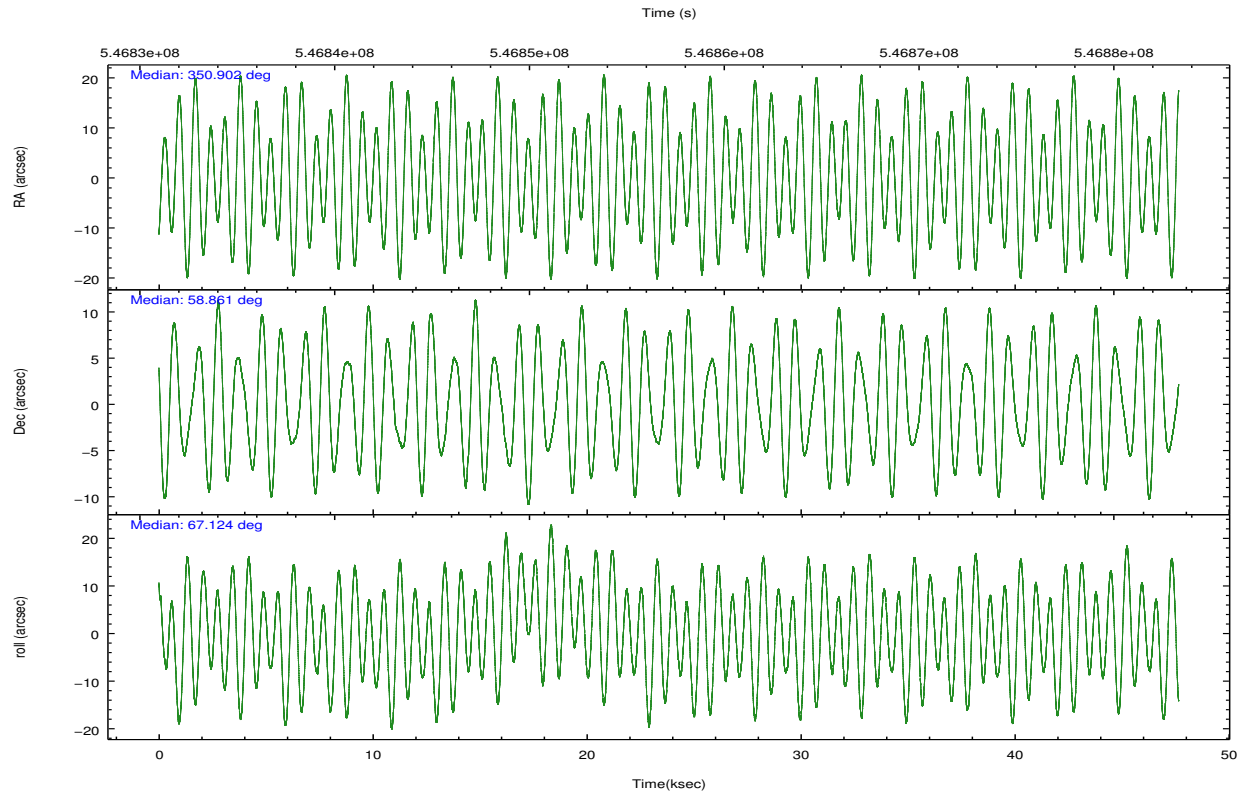
	ccd 7
grade 0 events	469729
	27%
grade 1 events	1388
	0%
grade 2 events	452701
	26%
grade 3 events	201951
	11%
grade 4 events	200537
	11%
grade 5 events	12311
	0%
grade 6 events	375806
	21%
grade 7 events	8790
	0%

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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	350.909148	350.9018713153636	Subarray requested	CUSTOM	CUSTOM
[deg] Pointing Dec	58.834264	58.86144154673479	Subarray start row	462	462
[deg] Pointing Roll	66.963290	67.12614501512753	Subarray row count	100	100
[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	0.4
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	546833997.184000	546833142.9072			
Observation start date	2015-05-01T02:18:50	2015-05-01T02:05:42			
[s] Observation end time (MET)	546883997.184000	546881923.68494			
Observation end date	2015-05-01T16:12:10	2015-05-01T15:38:43			
Read mode	TIMED	TIMED			

2.3 Aspect





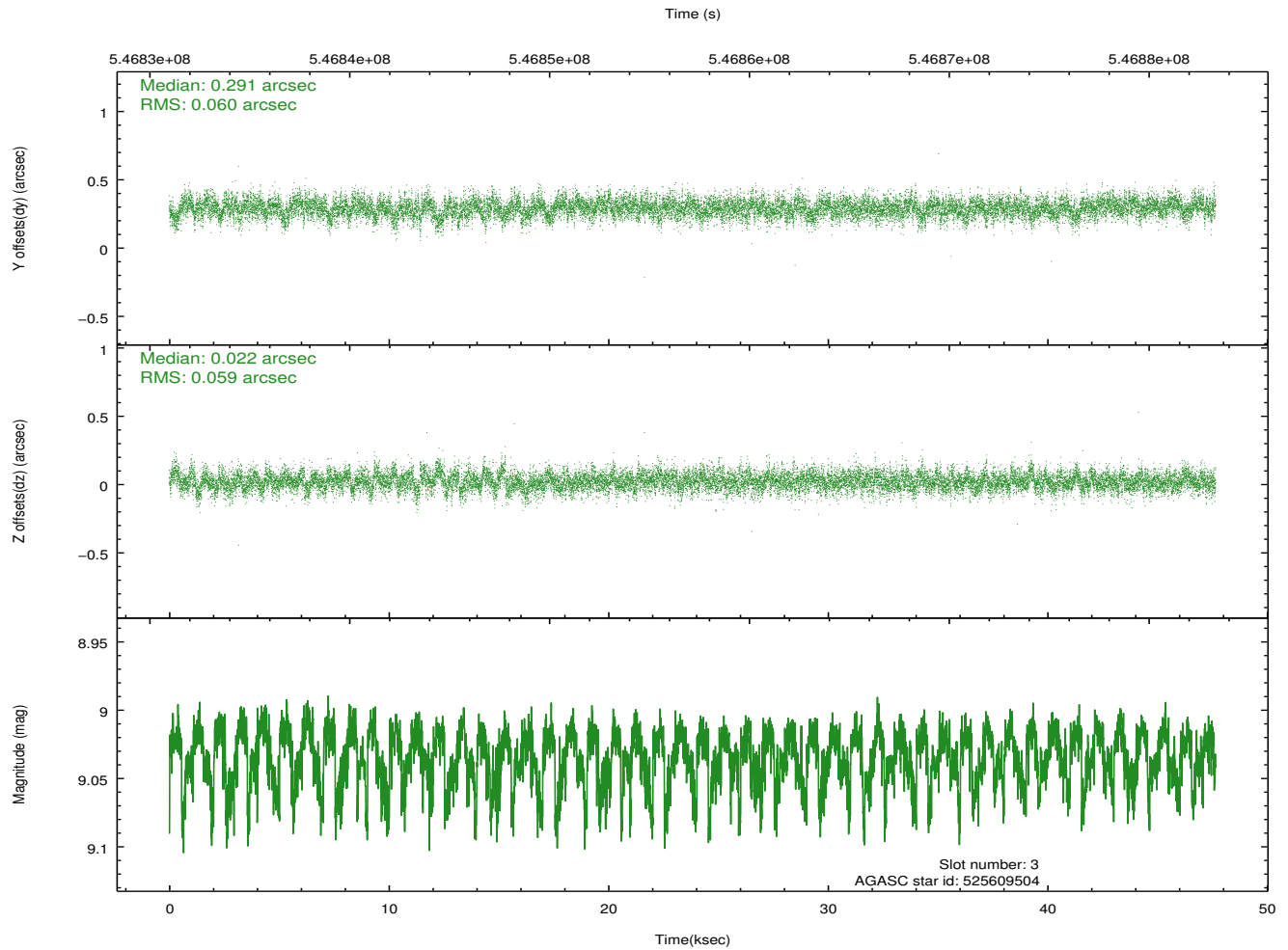
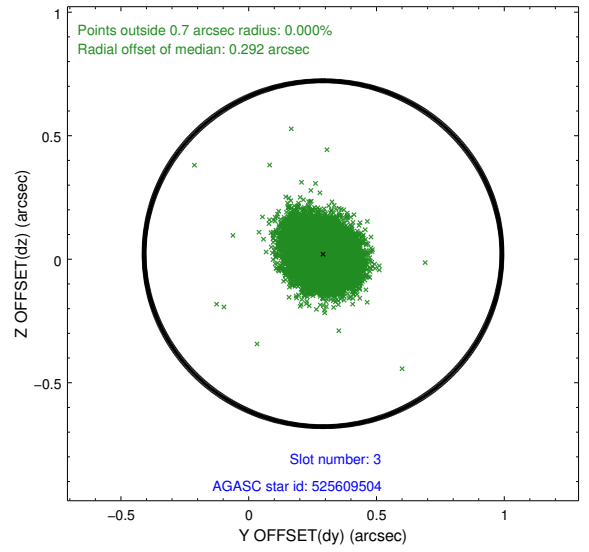
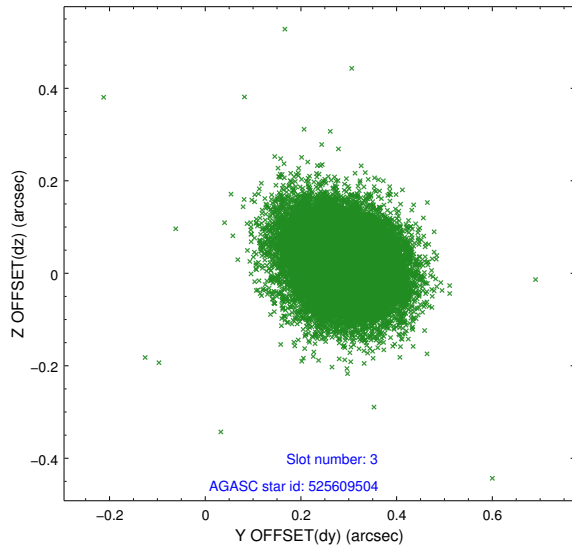
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.93	11622	-0.099	-0.025	0.016	0.026	0.000000	0.000000	-768.98	-1740.75
1	FID		ACIS-S-4	7.02	11621	0.249	0.055	0.011	0.024	0.000000	0.000000	2144.65	167.83
2	FID		ACIS-S-5	7.04	11623	-0.180	-0.022	0.016	0.036	0.000000	0.000000	-1821.92	161.40
3	GUIDE	used	525609504	9.03	23237	0.291	0.022	0.088	0.147	349.896632	58.356658	-2316.91	1093.38
4	GUIDE	used	525732232	9.09	23237	-0.081	0.063	0.108	0.170	351.669550	58.757012	306.41	-1414.22
5	GUIDE	used	525732488	8.38	23237	0.113	-0.029	0.098	0.159	350.087090	58.516915	-1646.89	978.94
6	GUIDE	used	525732528	9.34	23229	0.012	0.332	0.137	0.221	351.607241	59.298932	2047.82	-522.68
7	GUIDE	used	525735456	7.07	23243	-0.337	-0.382	0.073	0.119	350.628183	59.307249	1365.82	1141.97

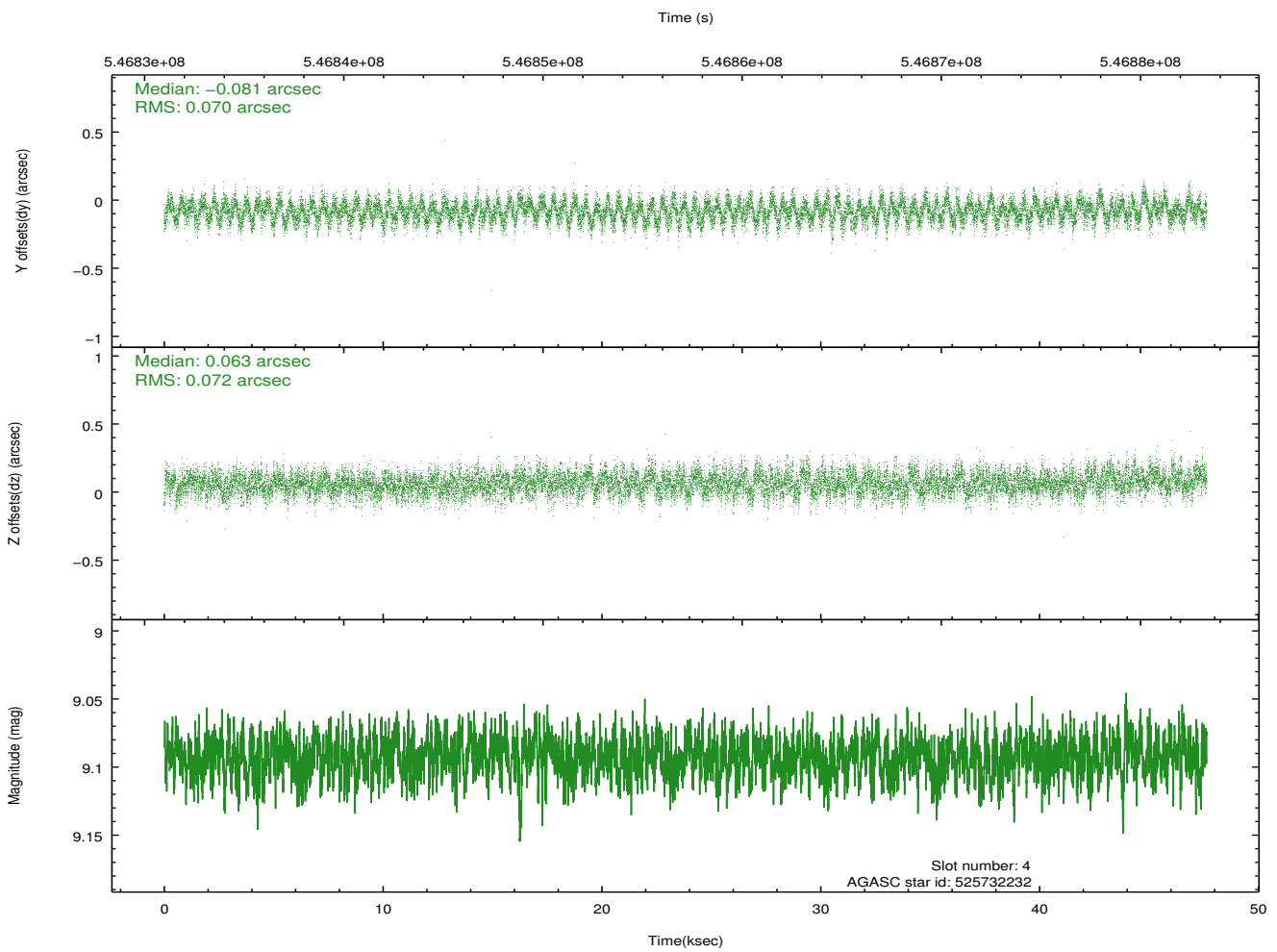
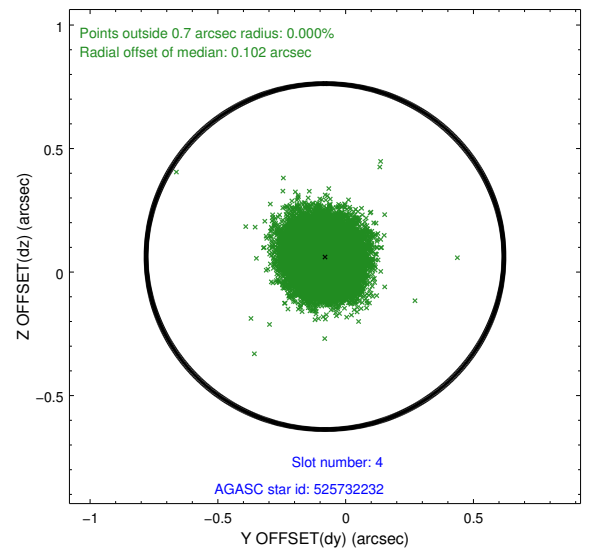
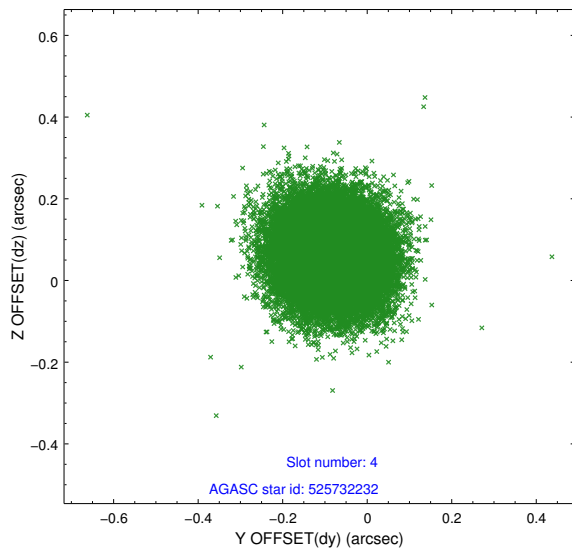
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2.4 Star Slots

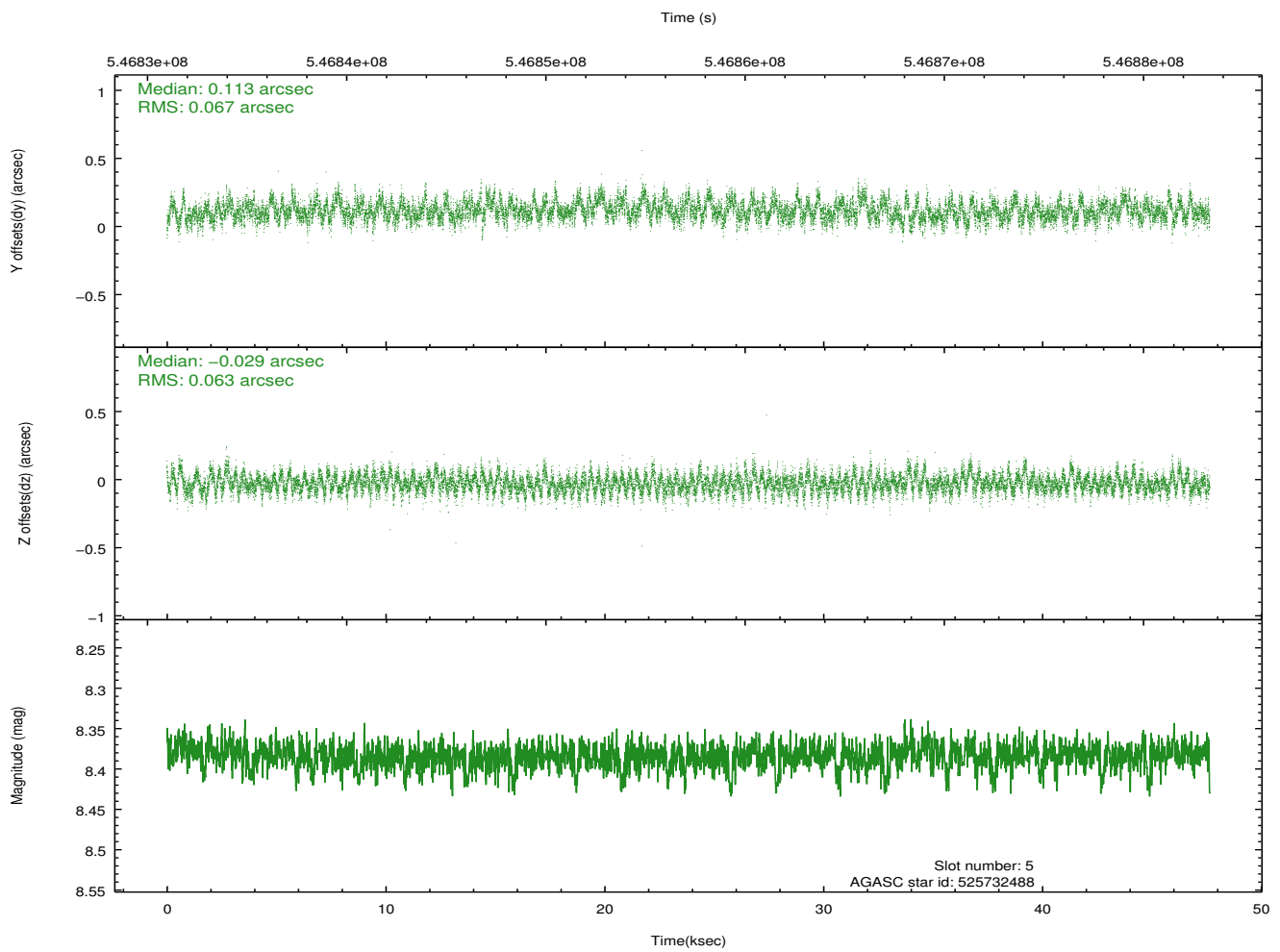
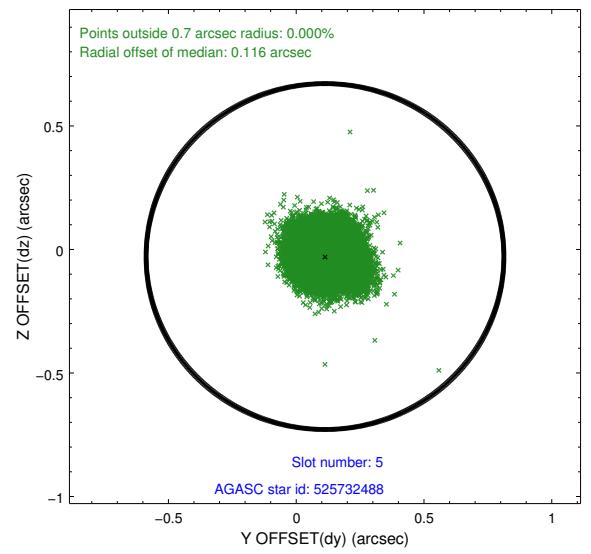
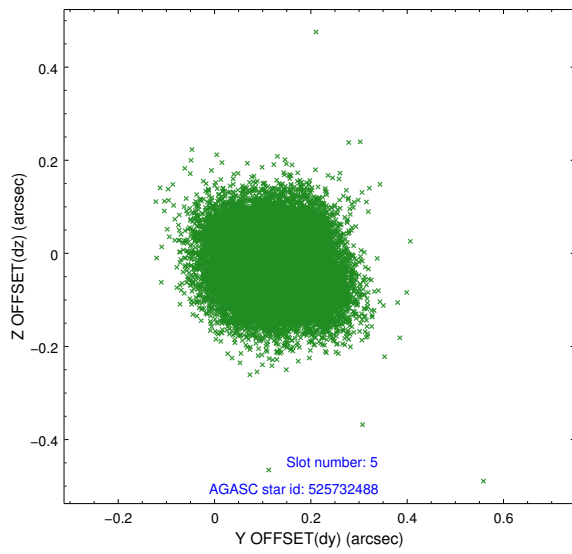
2.4.1 Slot 3



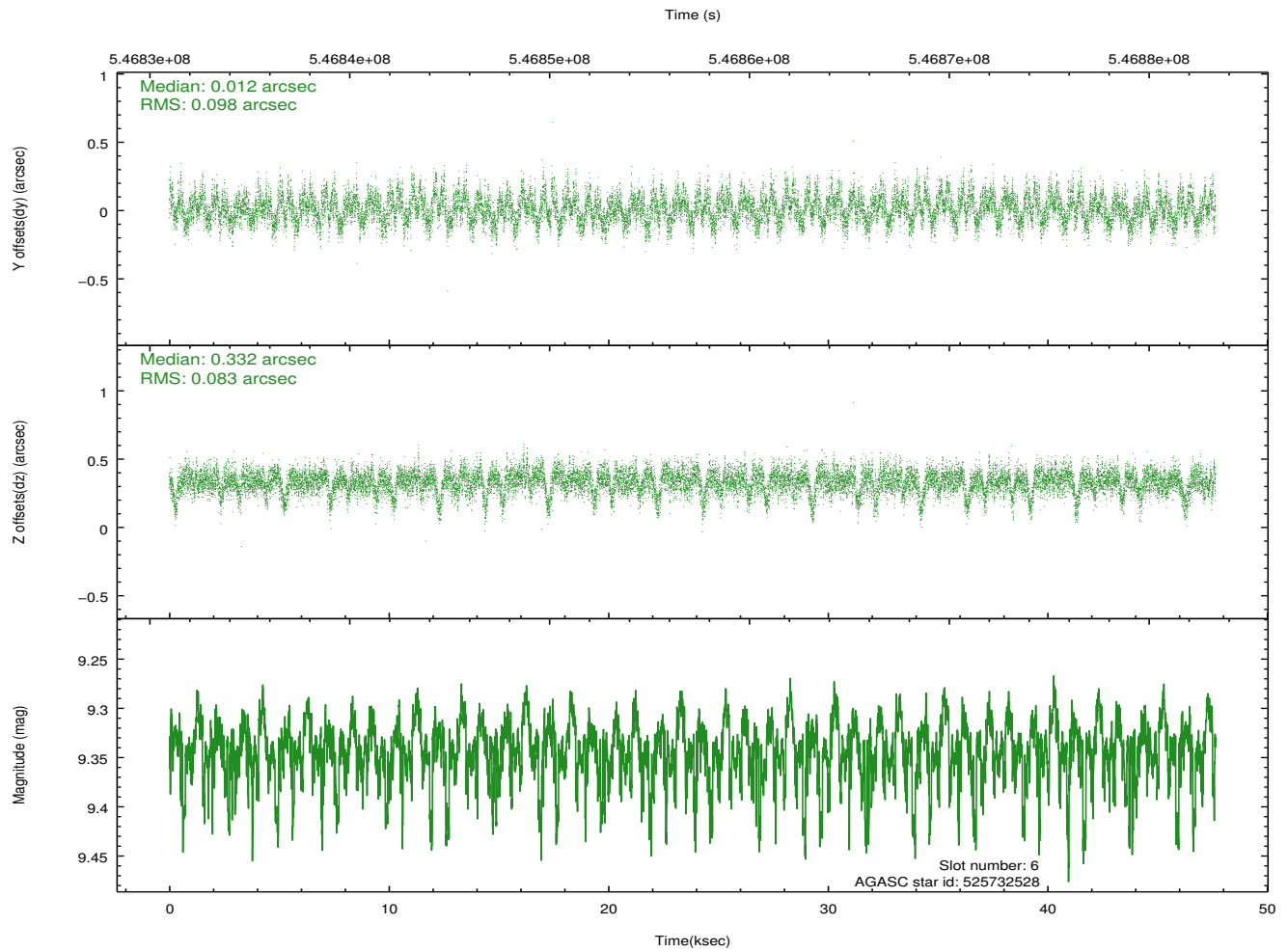
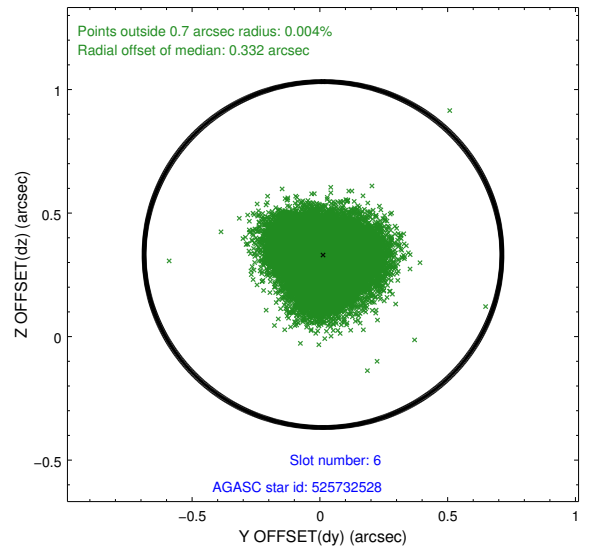
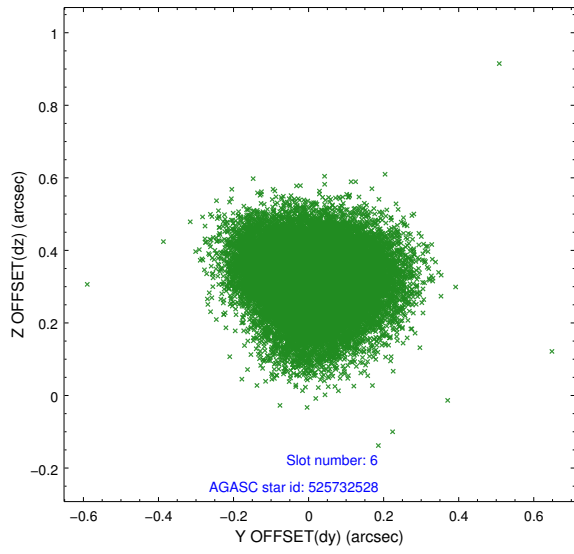
2.4.2 Slot 4



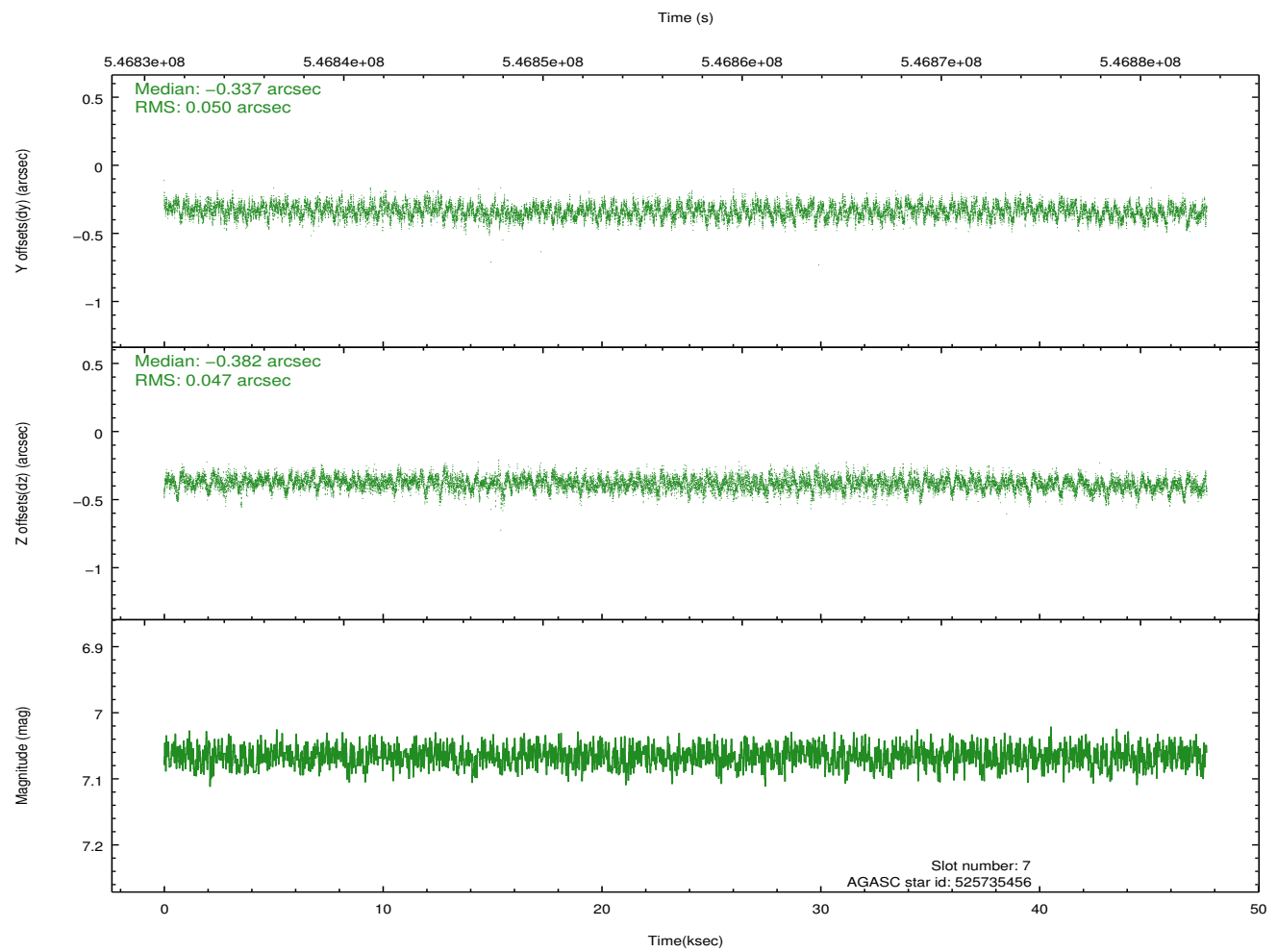
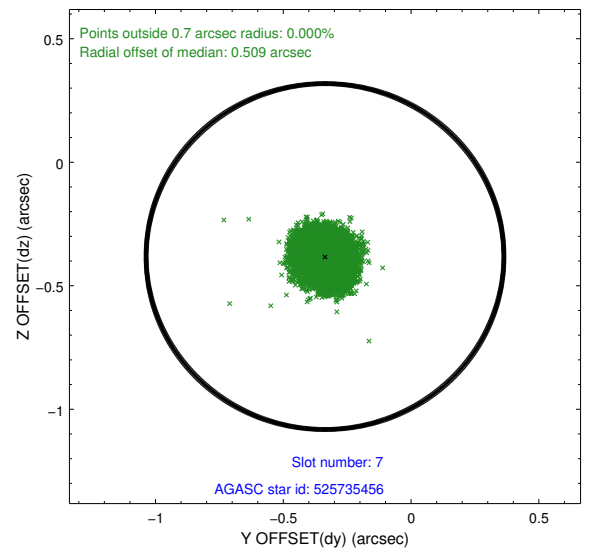
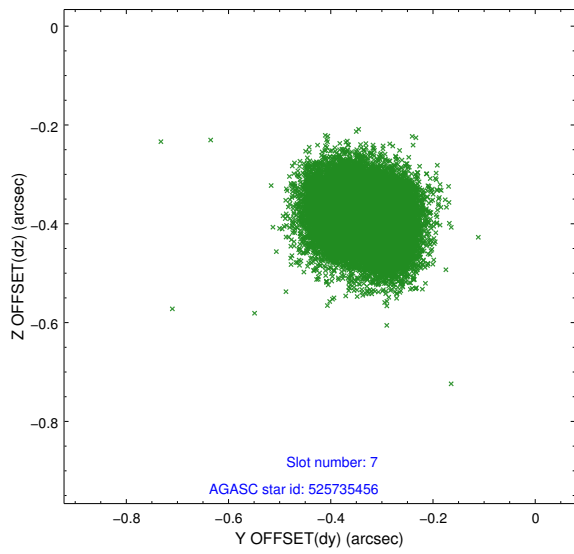
2.4.3 Slot 5



2.4.4 Slot 6

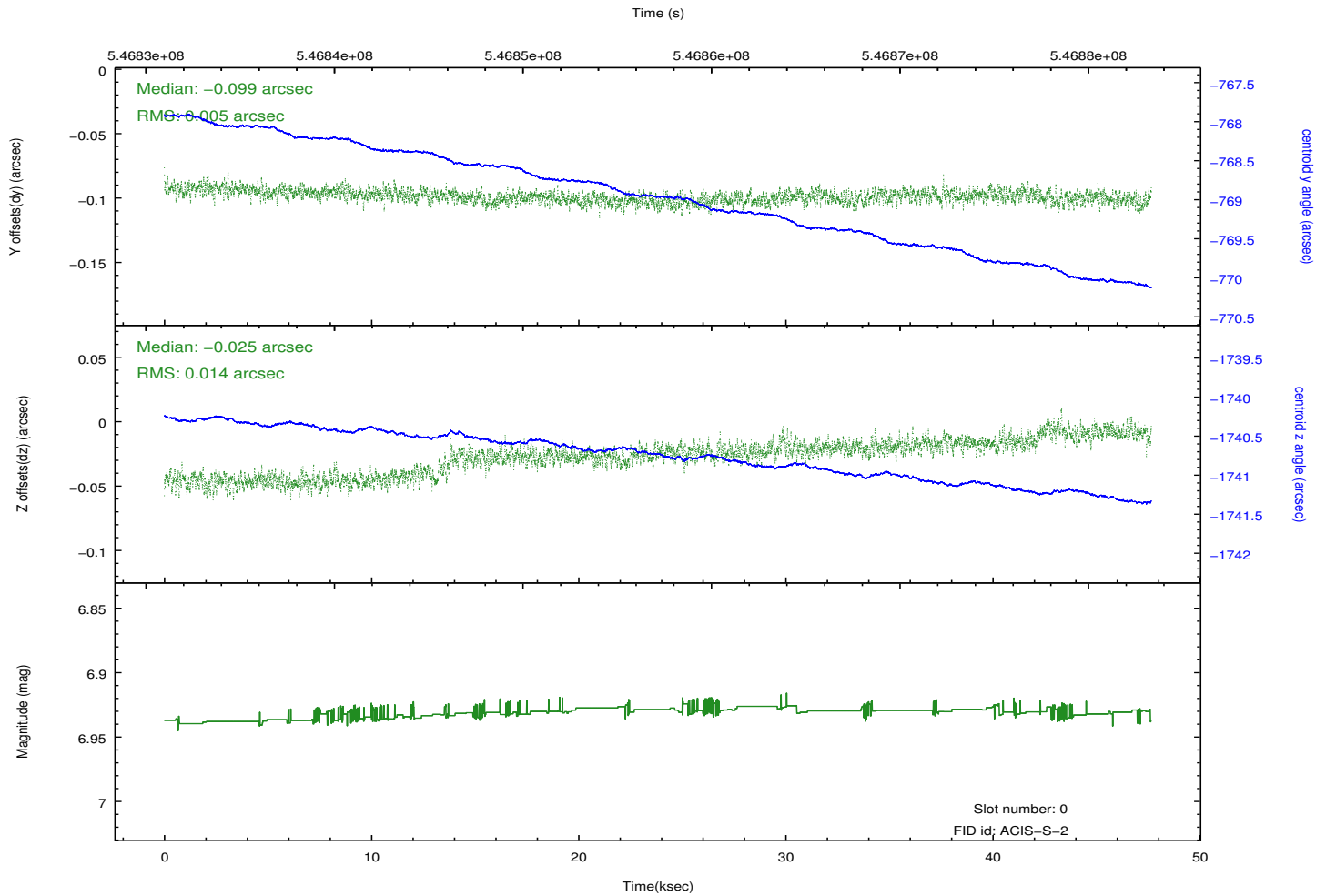
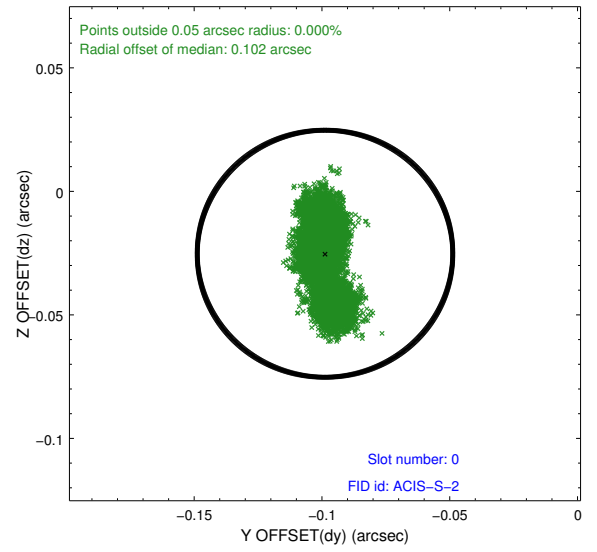
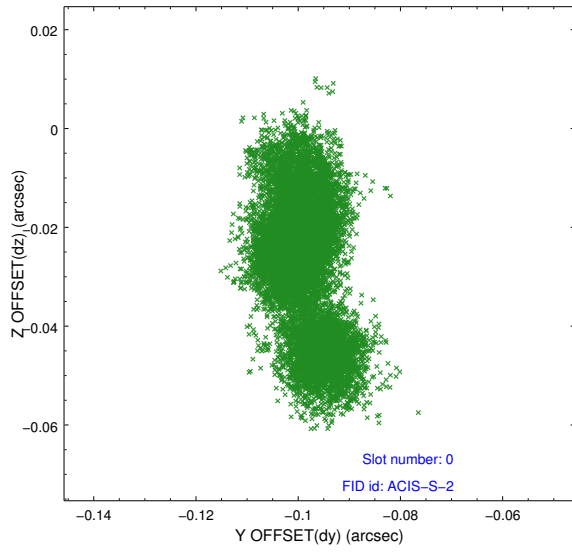


2.4.5 Slot 7

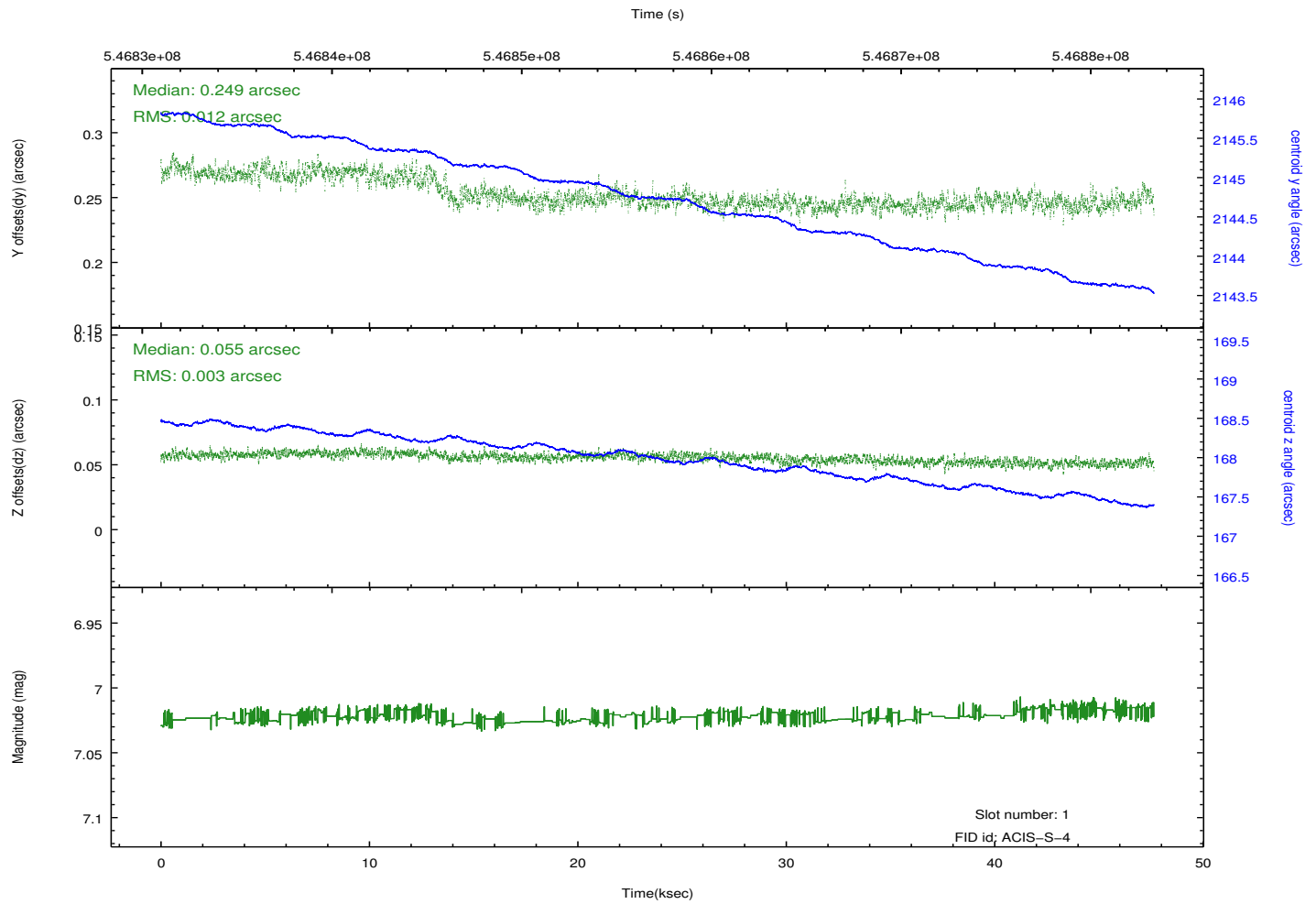
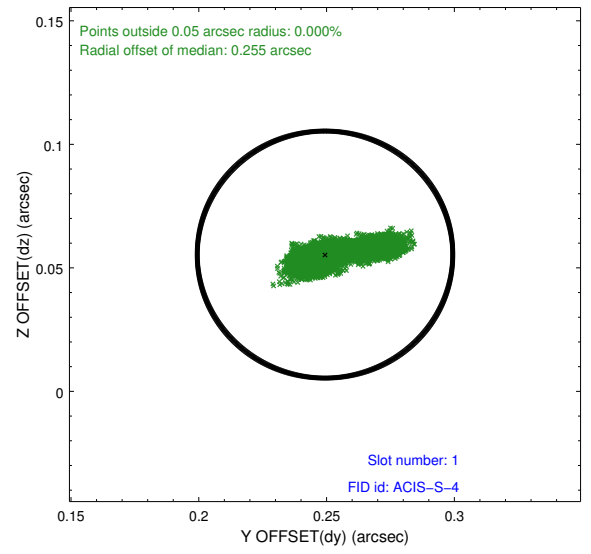
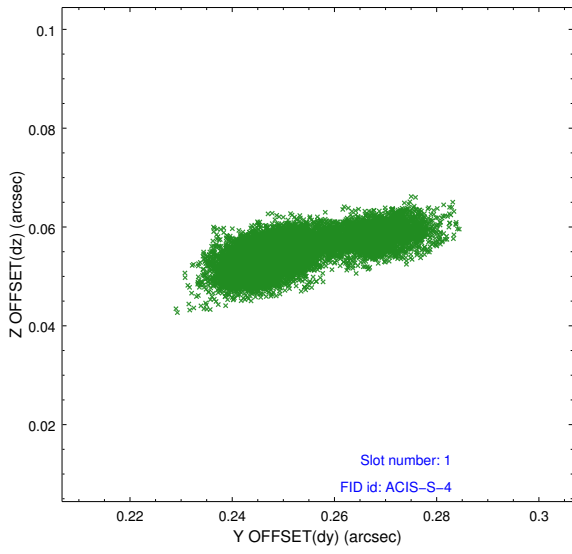


2.5 FID Slots

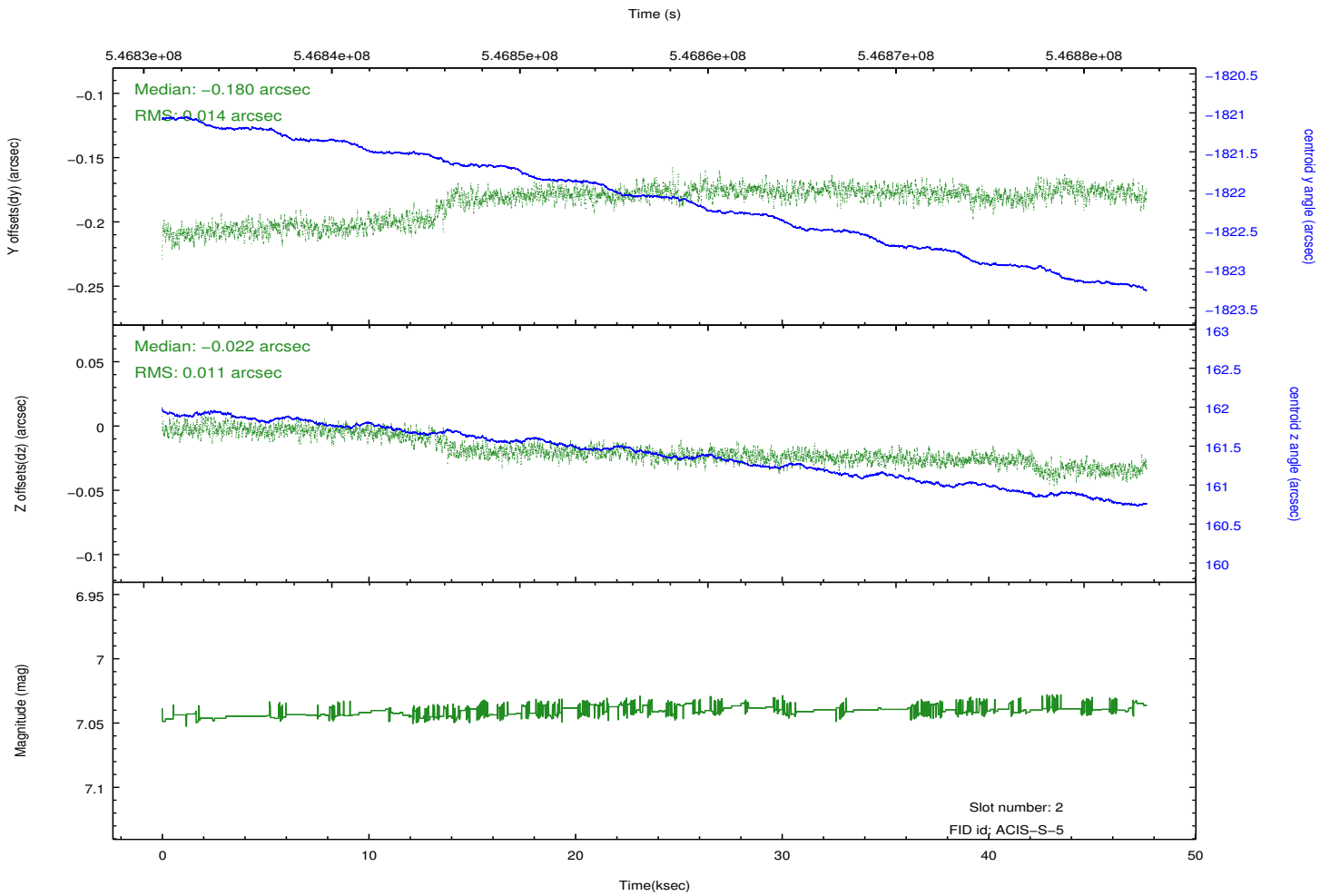
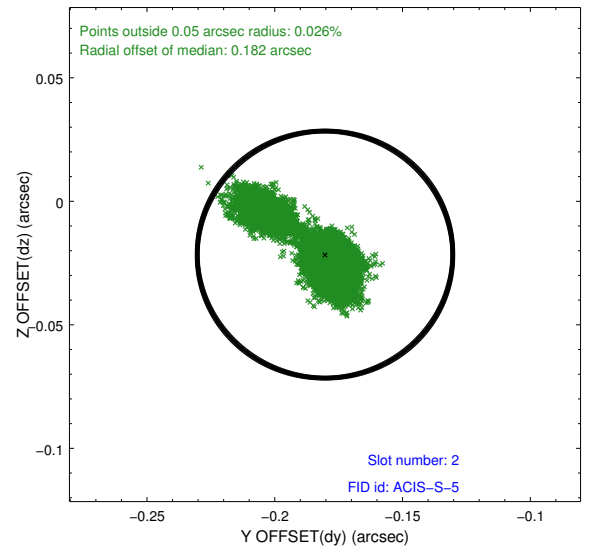
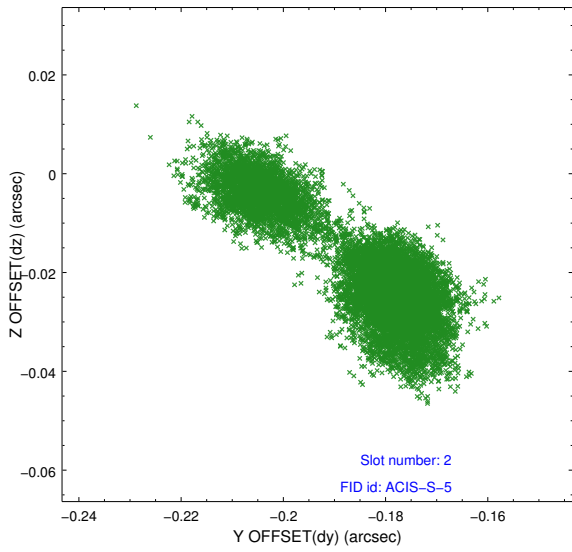
2.5.1 Slot 0



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)	2015.05.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	47.108715141654

A.2 Comments