

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 19603 - L2 Version 1
Chandra X-Ray Center

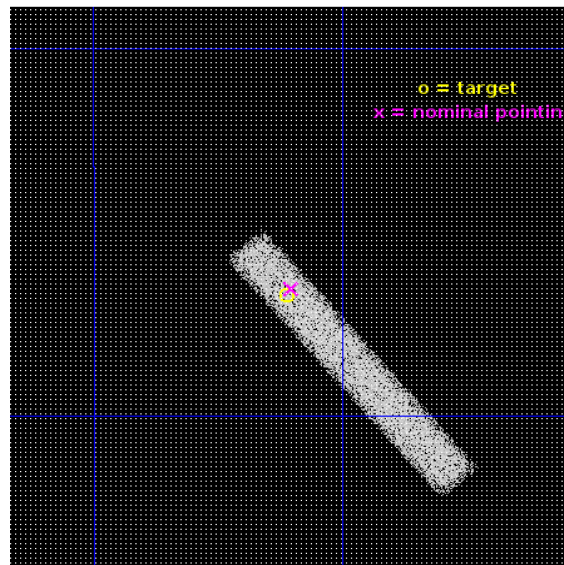
L2 Processing Date : May 26 2019

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1 Front

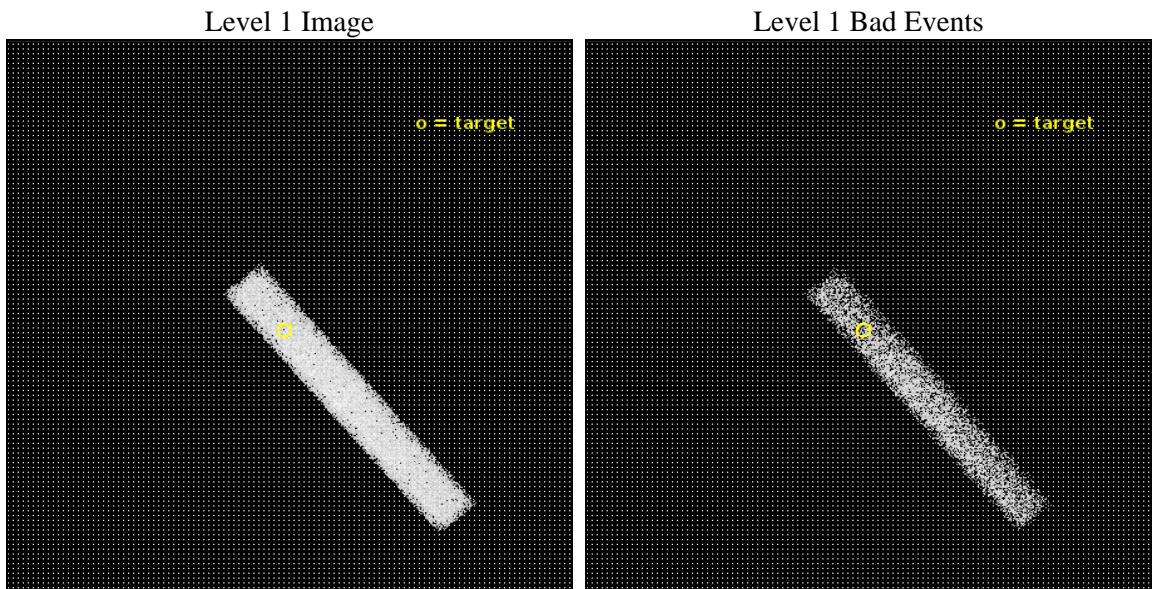
seq_num	401880	Sequence number
obs_id	19603	Observation id
title	Crust cooling of accretion-heated neutron stars	Proposal title
observer	Rudy Wijnands	Principal investigator
object	MXB 1659-298	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	255.52725	Observer's specified target RA [deg]
dec_targ	-29.945581	Observer's specified target Dec [deg]
ra_nom	255.52537970901	Nominal RA [deg]
dec_nom	-29.942429549266	Nominal Dec [deg]
roll_nom	49.15569896908	Nominal Roll [deg]
revision	1	Processing version of data
ontime	30070.398207545	Sum of GTIs [s]
livetime	27272.263928483	Livetime [s]
ontime7	30070.398207545	Sum of GTIs [s]
l2events	18362	Number of level 2 events



2 OBI

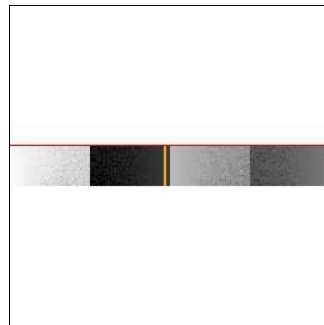
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	30000.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	30070.398207545	Sum of GTIs [s]
caldbver	4.8.3	 	ontime7	30070.398207545	Sum of GTIs [s]
date	2019-05-26T23:11:33	Date and time of file creation	l1events	39692	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

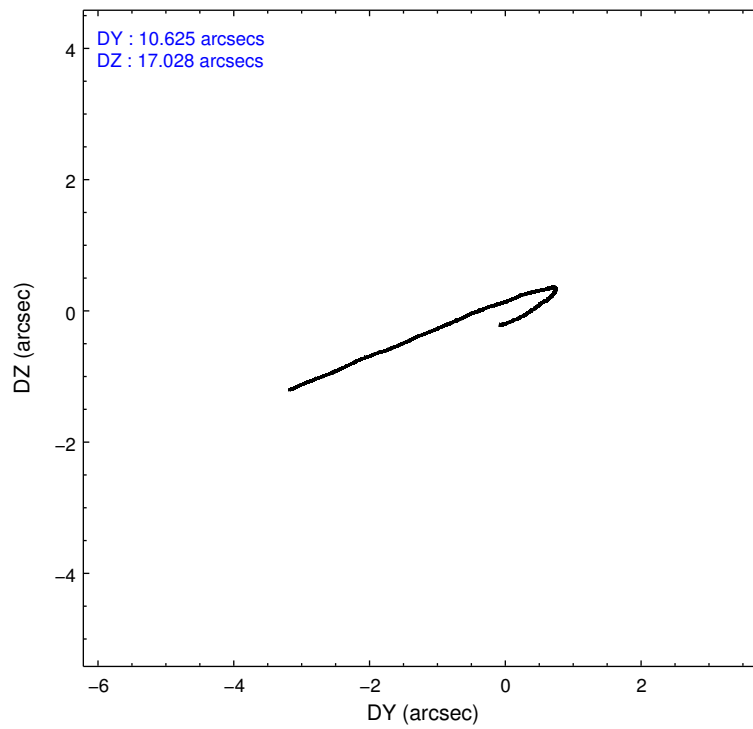
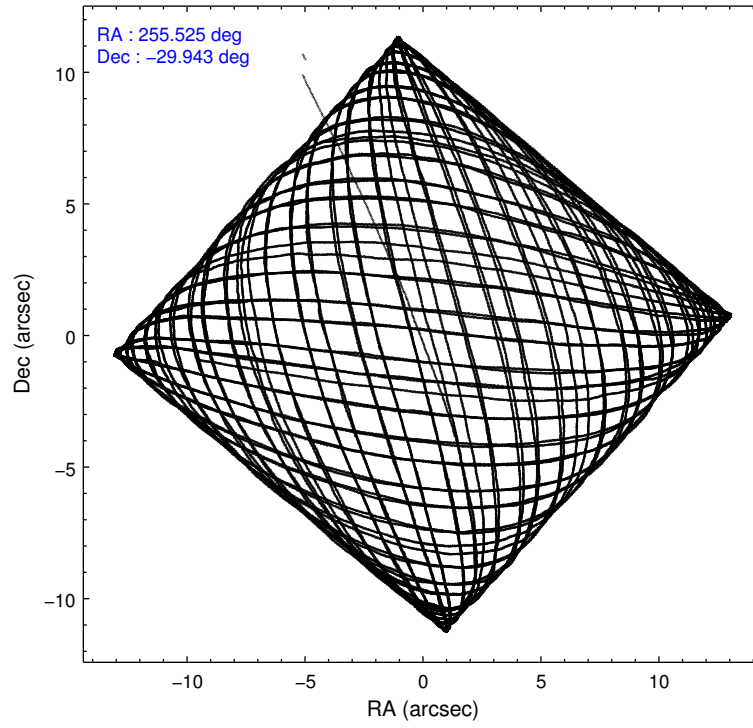
	ccd 7
level 1 events	39692
rejected events	20443
rejected %	51%

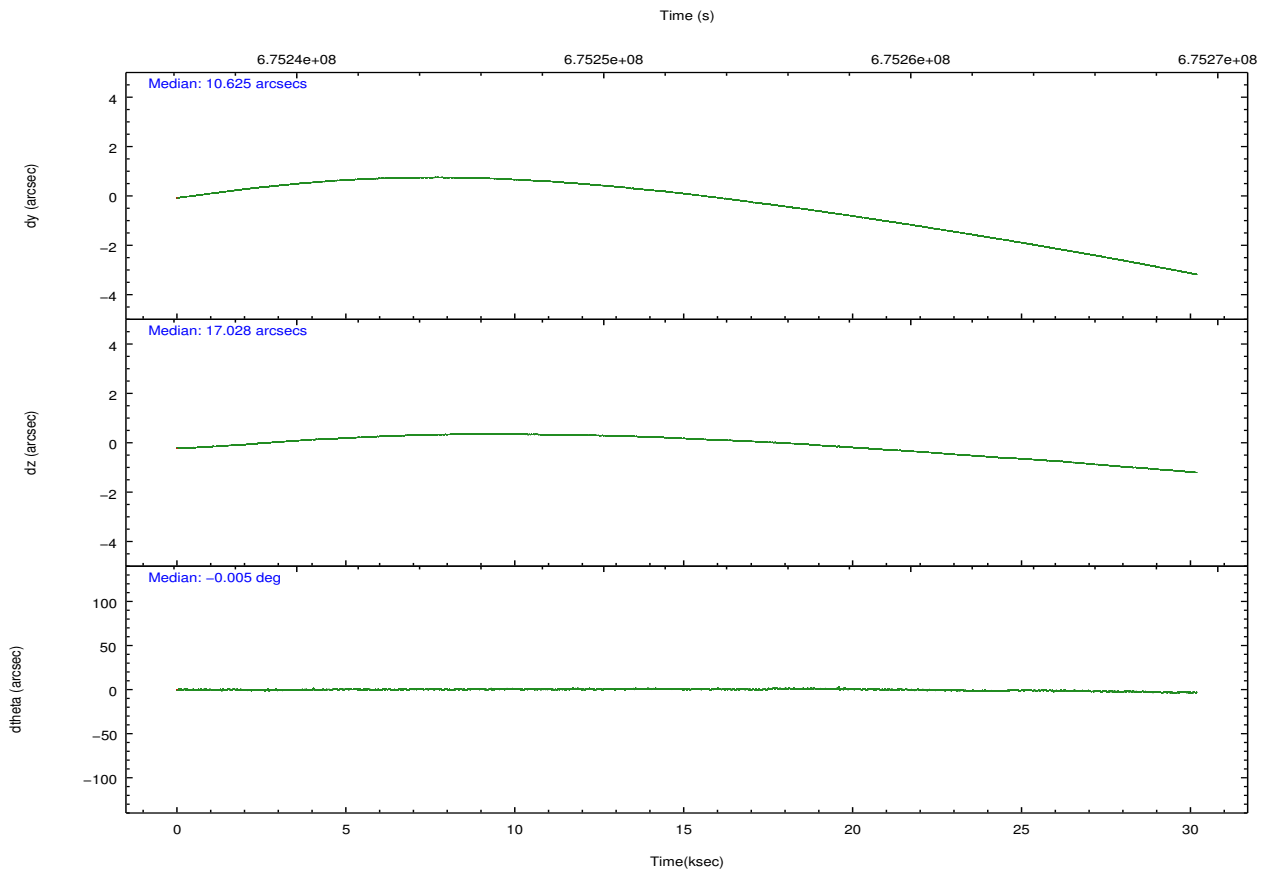
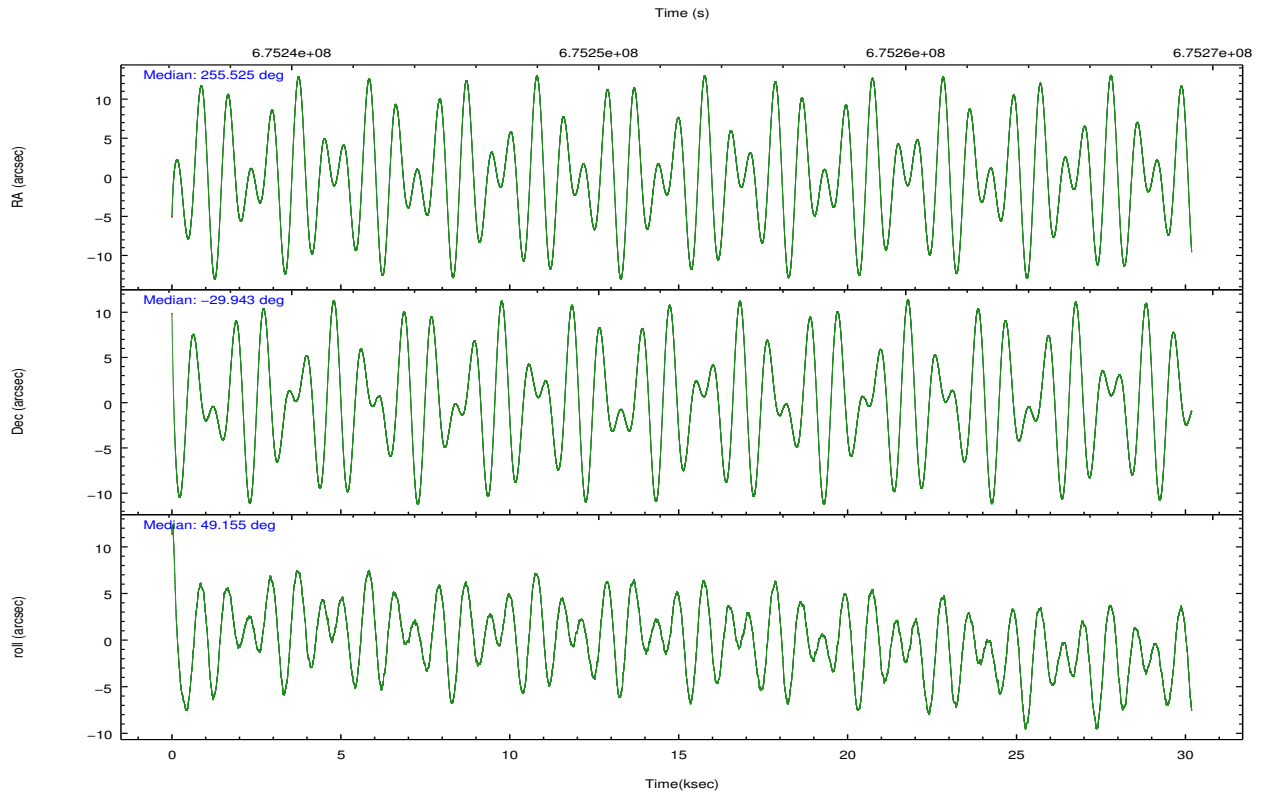
	ccd 7
grade 0 events	1897
	4%
grade 1 events	66
	0%
grade 2 events	3541
	8%
grade 3 events	2506
	6%
grade 4 events	2373
	5%
grade 5 events	4014
	10%
grade 6 events	8932
	22%
grade 7 events	16363
	41%

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	255.519822	255.5253797090106	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-29.969440	-29.94242954926626	Subarray start row	449	449
[deg] Pointing Roll	48.996293	49.15569896908006	Subarray row count	128	128
[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	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	675237778.184000	675236668.27518			
Observation start date	2019-05-26T06:01:49	2019-05-26T05:44:28			
[s] Observation end time (MET)	675267778.184000	675268514.51459			
Observation end date	2019-05-26T14:21:49	2019-05-26T14:35:14			
Read mode	TIMED	TIMED			

2.3 Aspect





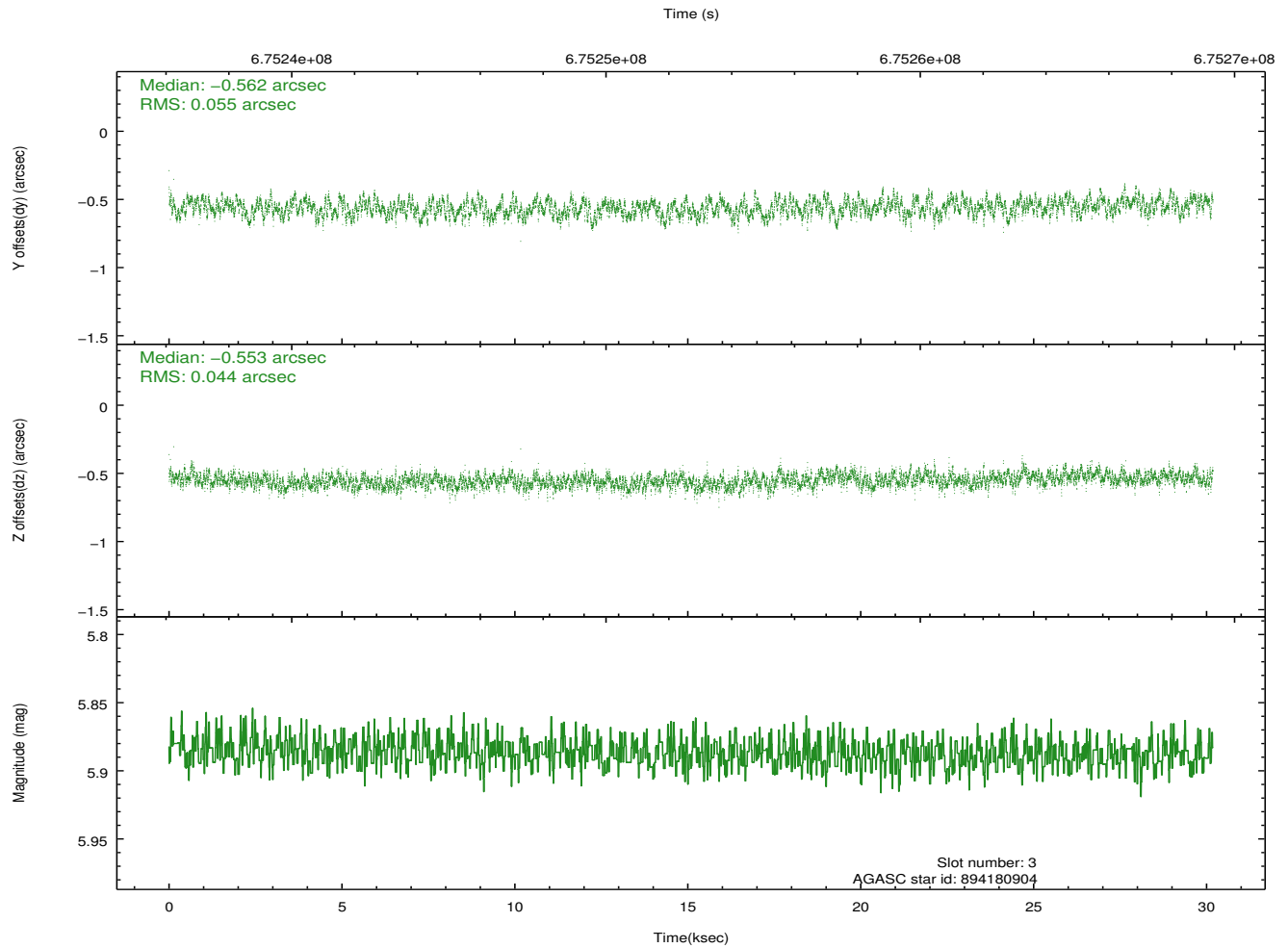
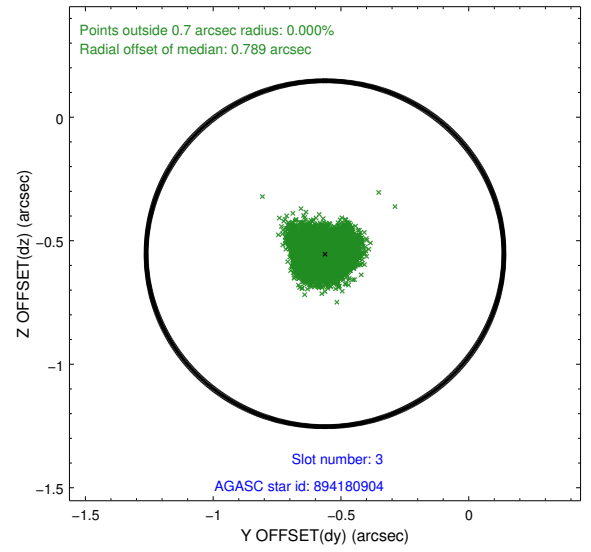
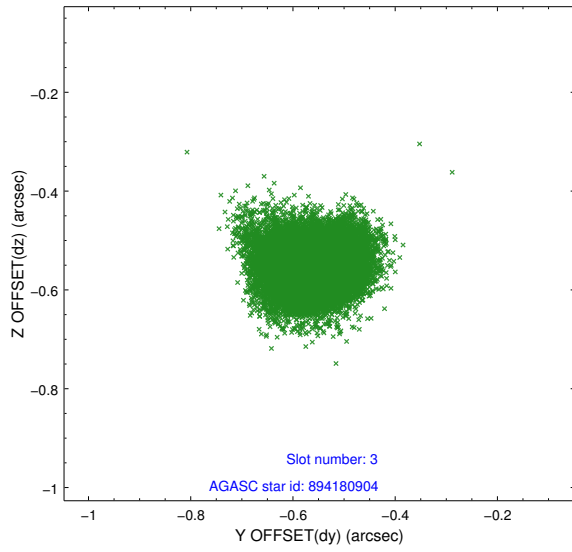
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-3	7.33	7361	1.000	-0.202	-0.207	0.020	0.052	0.000000	0.000000	50.03	-1867
1	FID		ACIS-S-4	7.18	7363	1.000	0.640	0.204	0.016	0.049	0.000000	0.000000	2151.00	170
2	FID		ACIS-S-5	7.15	7362	1.000	-0.464	0.011	0.019	0.094	0.000000	0.000000	-1816.20	163
3	GUIDE	used	894180904	5.89	14725	1.000	-0.562	-0.553	0.075	0.120	255.255927	-29.671811	265.37	1324
4	GUIDE	used	894312440	8.34	14716	1.000	0.076	-0.067	0.097	0.168	256.267206	-29.720309	2204.66	-1179
5	GUIDE	used	964697800	7.98	14720	1.000	0.454	0.363	0.088	0.139	255.454330	-30.779005	-2331.51	-1759
6	GUIDE	used	964704056	8.11	14717	1.000	0.365	0.419	0.090	0.147	255.534594	-30.651859	-1823.33	-1645
7	GUIDE	used	894311560	8.25	14717	1.000	-0.340	-0.155	0.129	0.188	255.968048	-29.561250	2027.81	-96

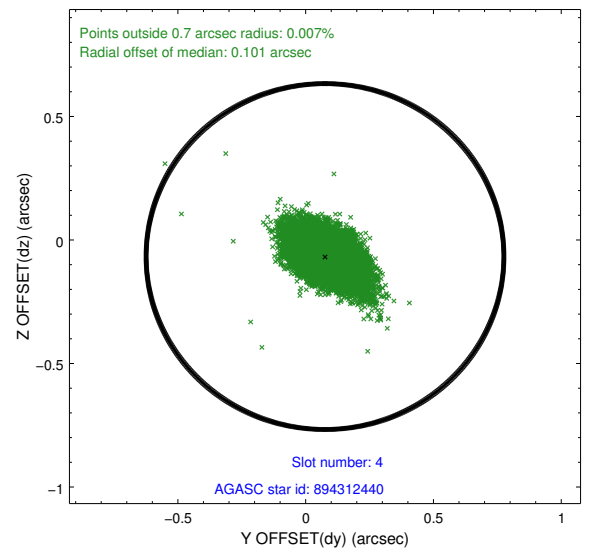
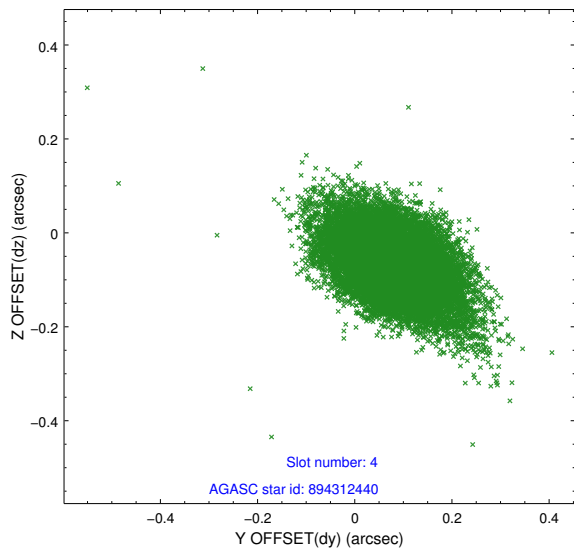
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2.4 Star Slots

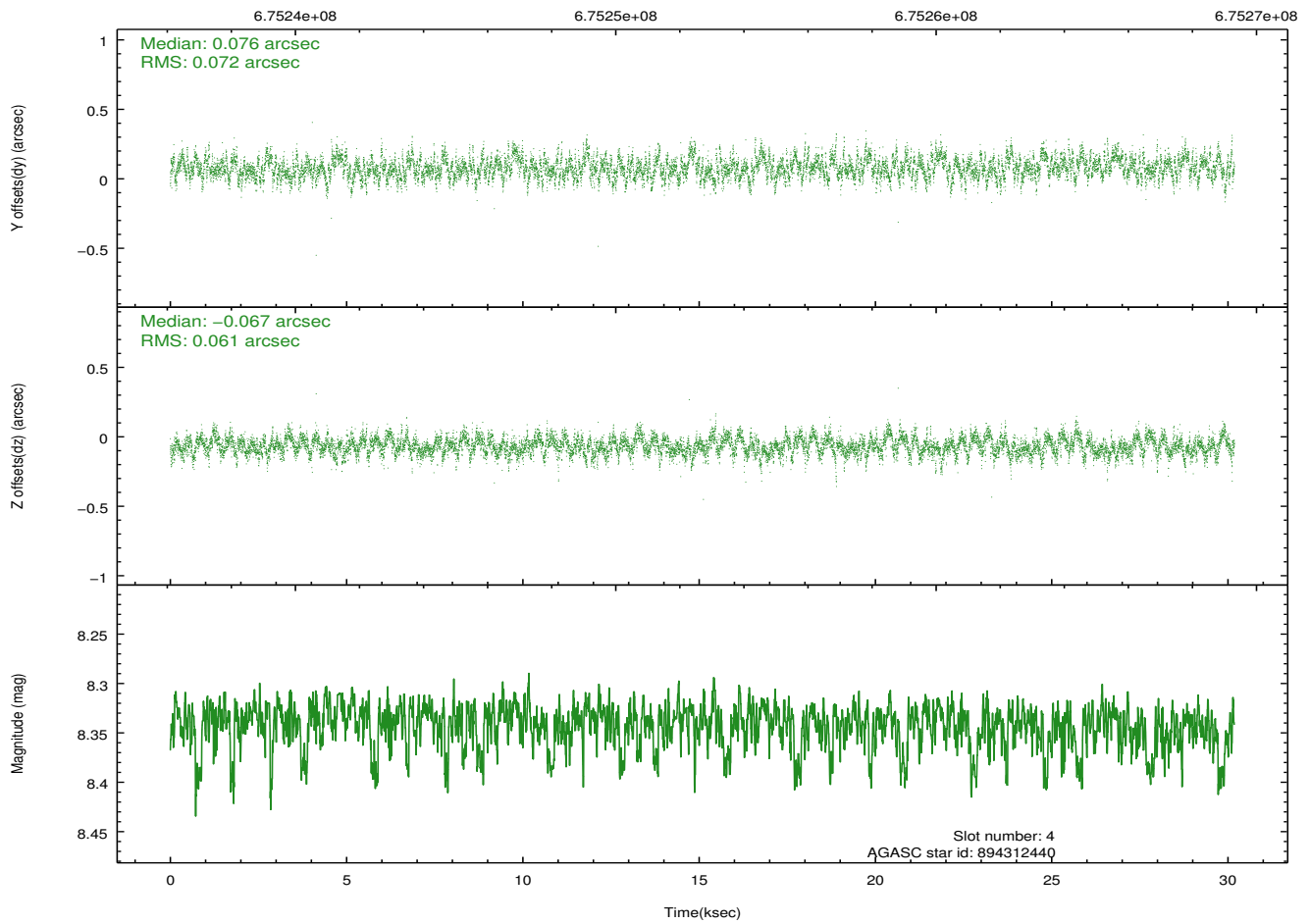
2.4.1 Slot 3



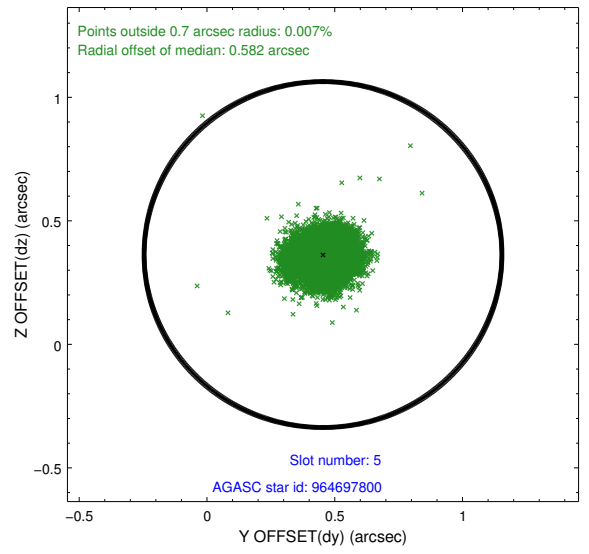
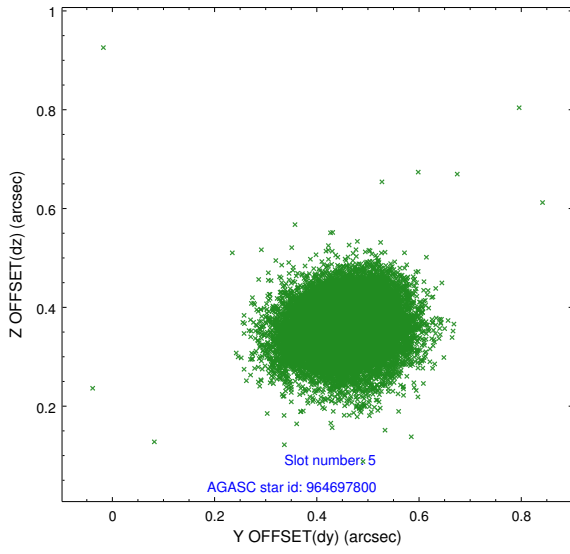
2.4.2 Slot 4



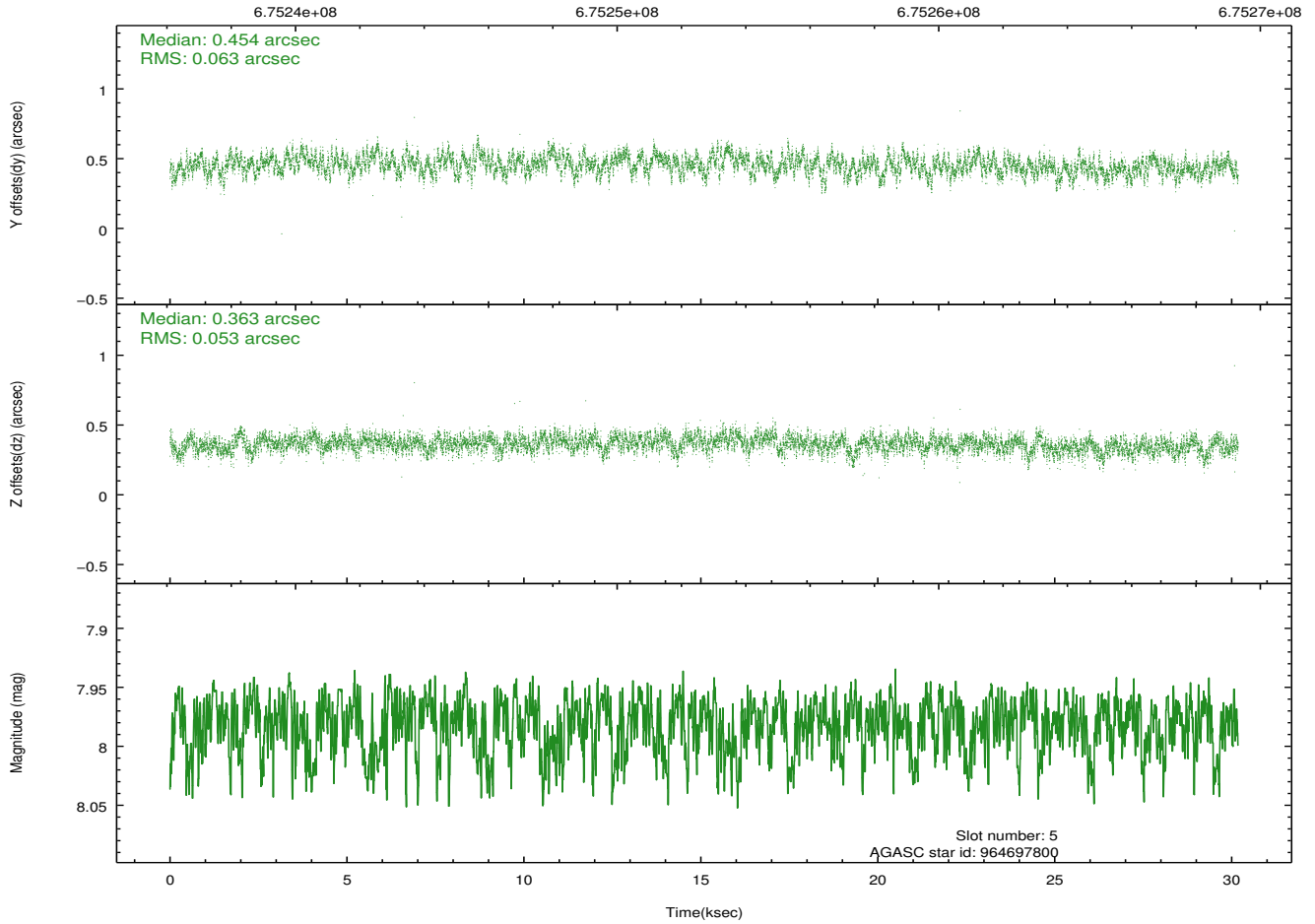
Time (s)



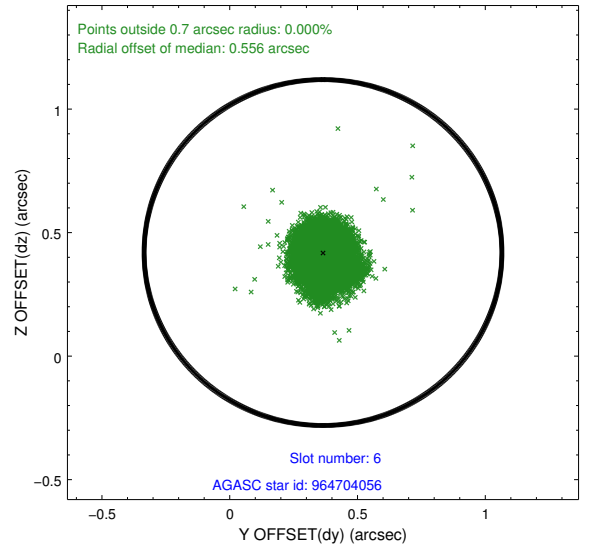
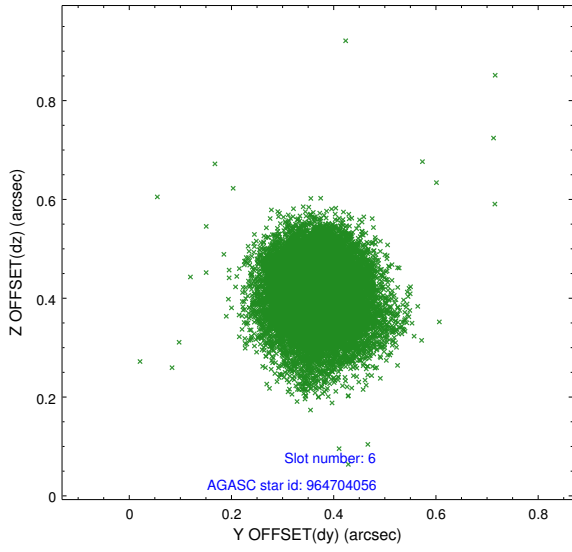
2.4.3 Slot 5



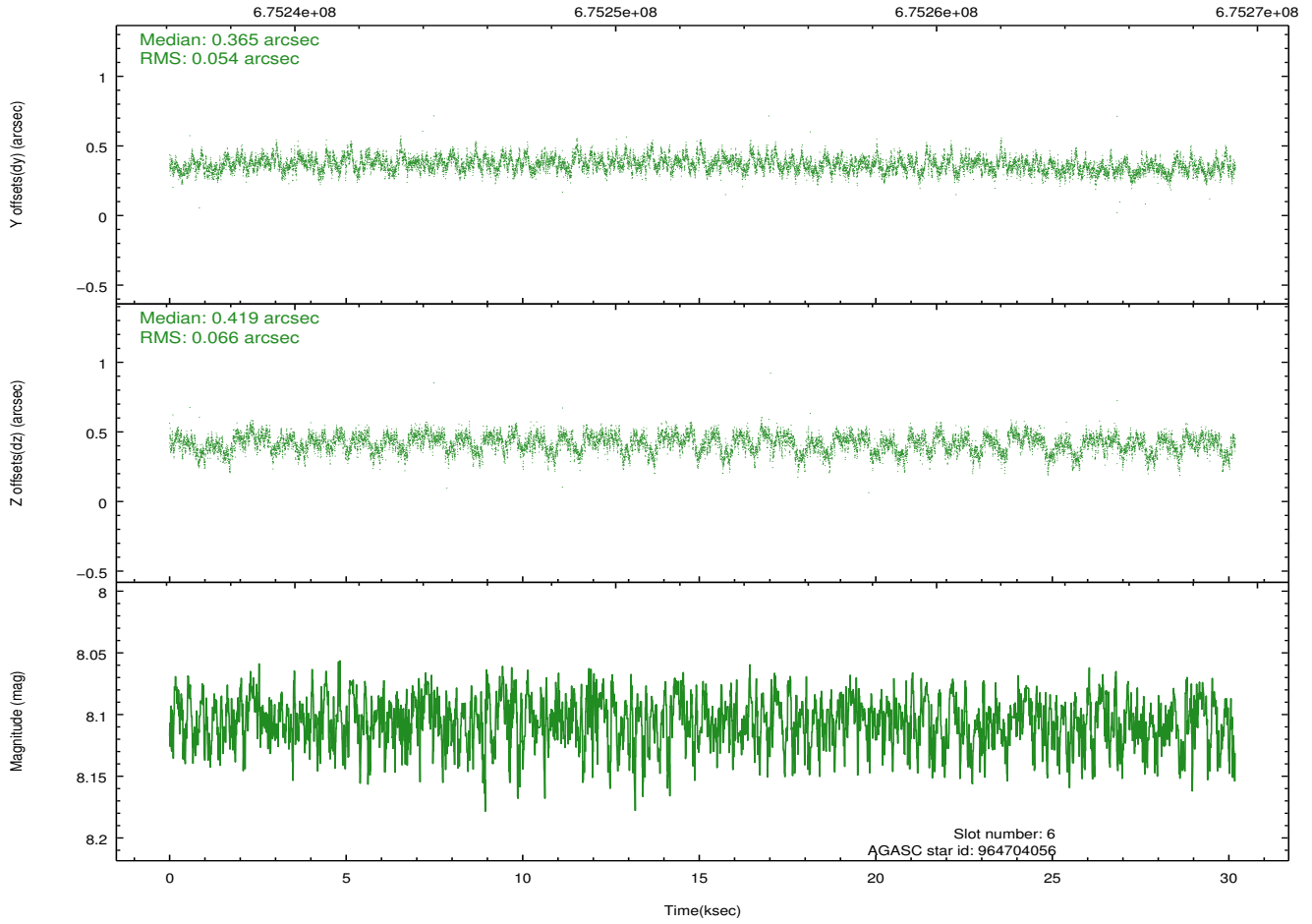
Time (s)



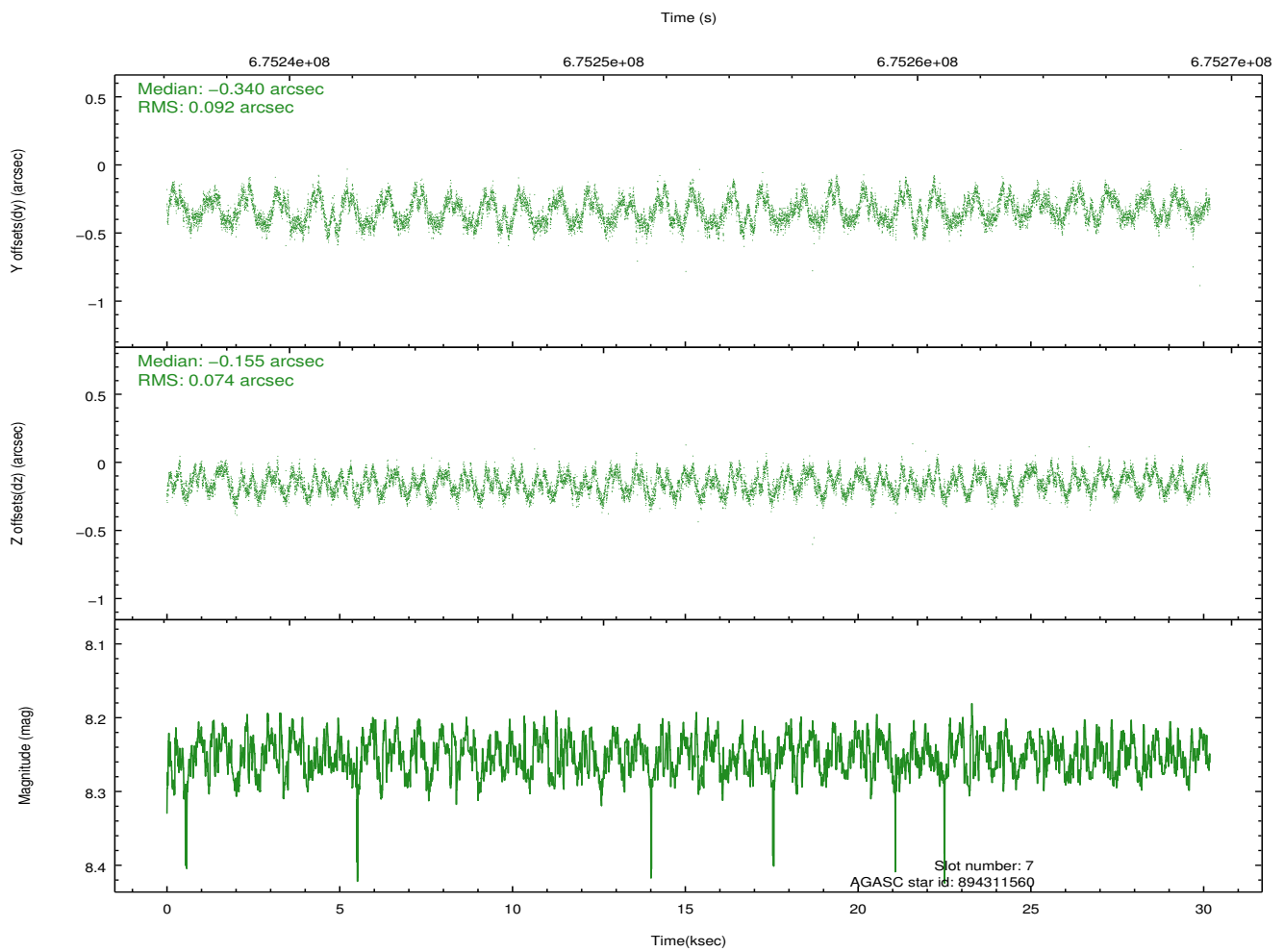
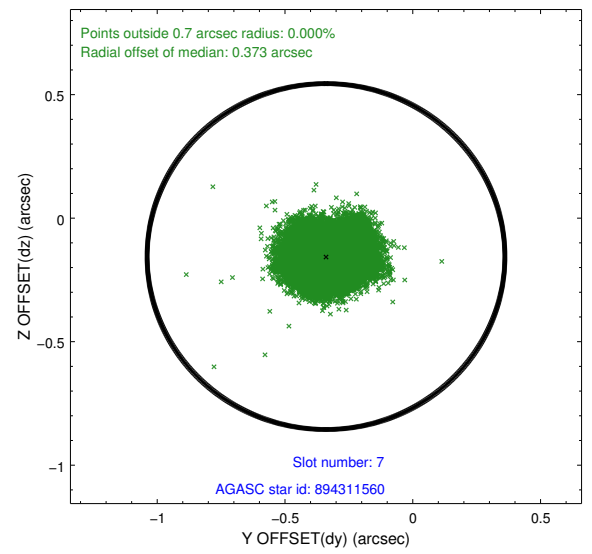
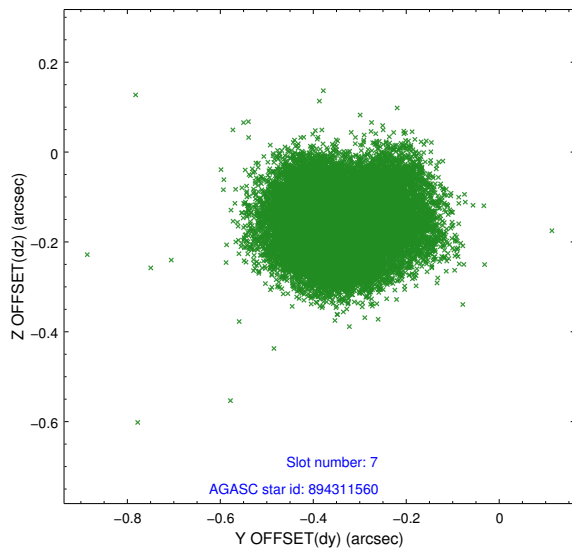
2.4.4 Slot 6



Time (s)

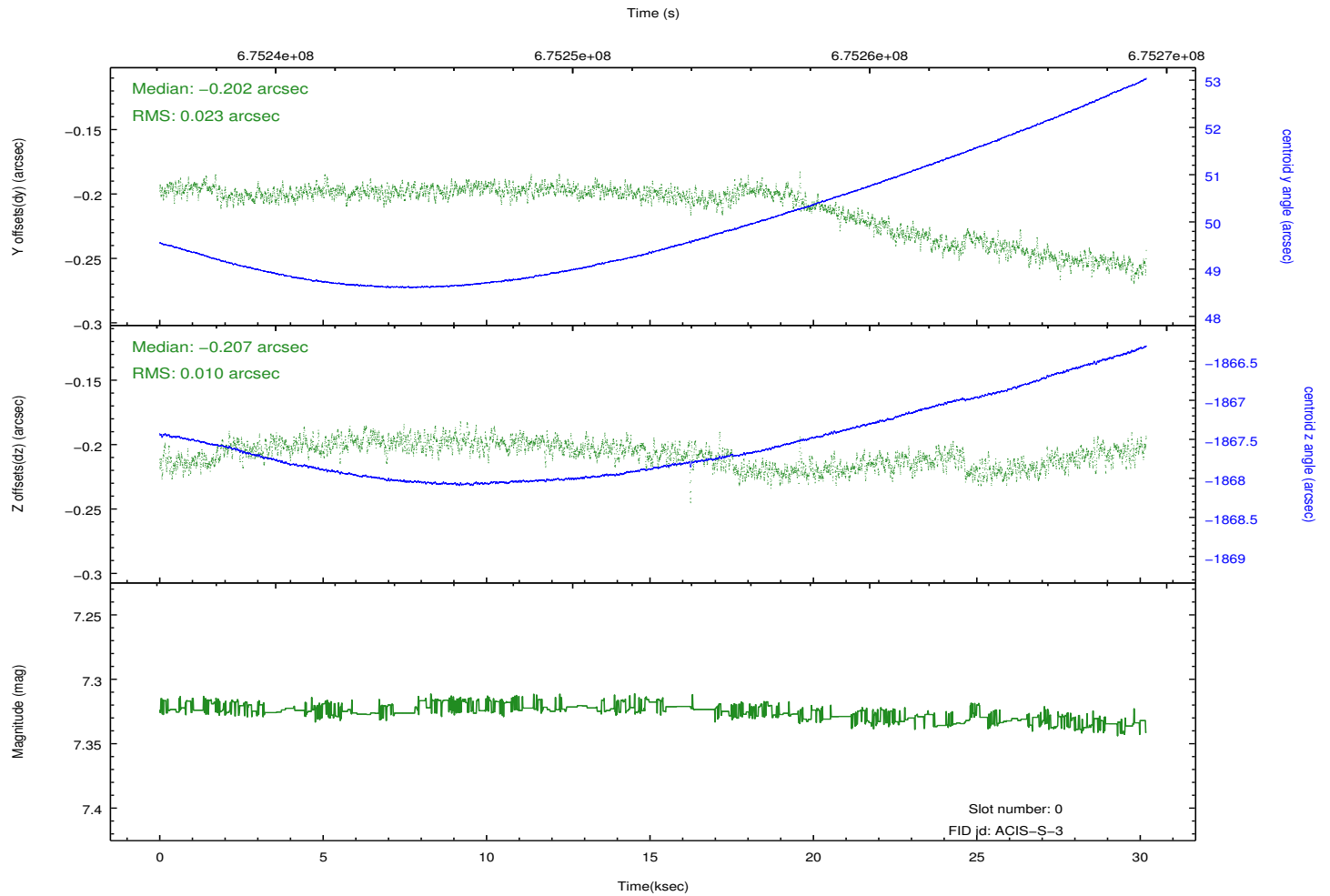
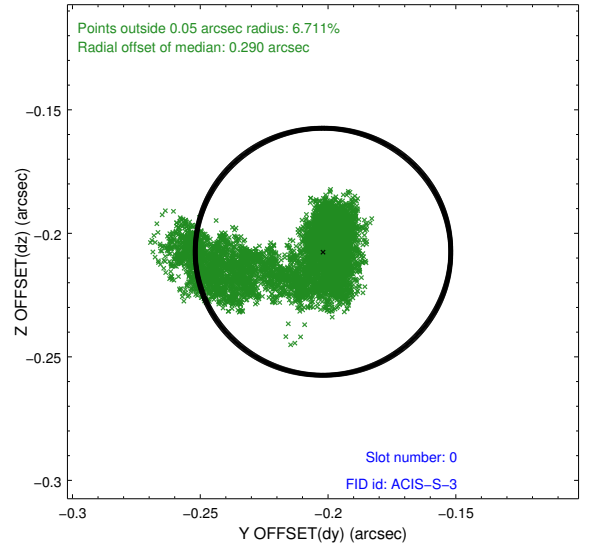
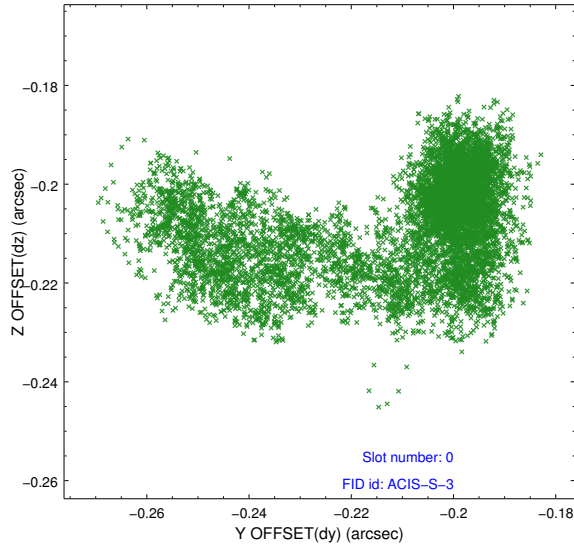


2.4.5 Slot 7

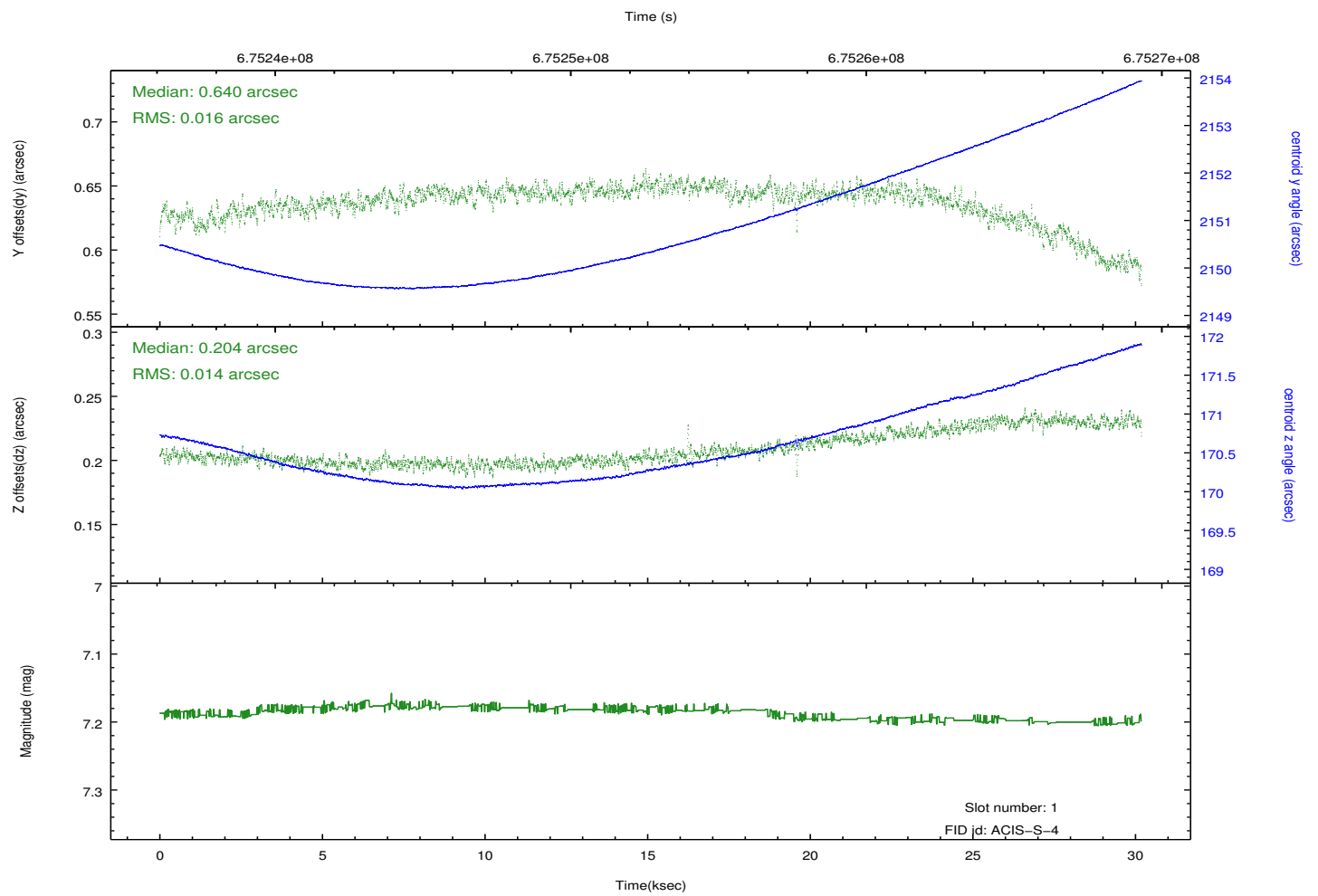
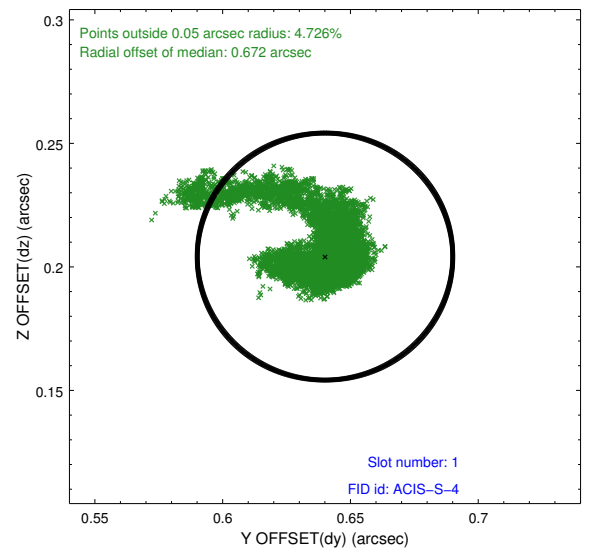
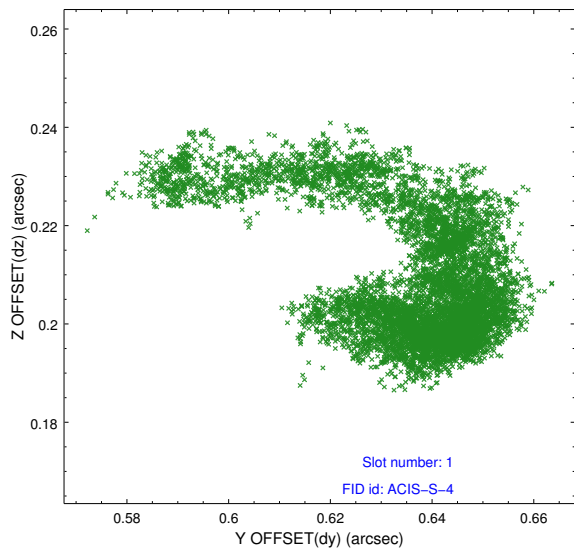


2.5 FID Slots

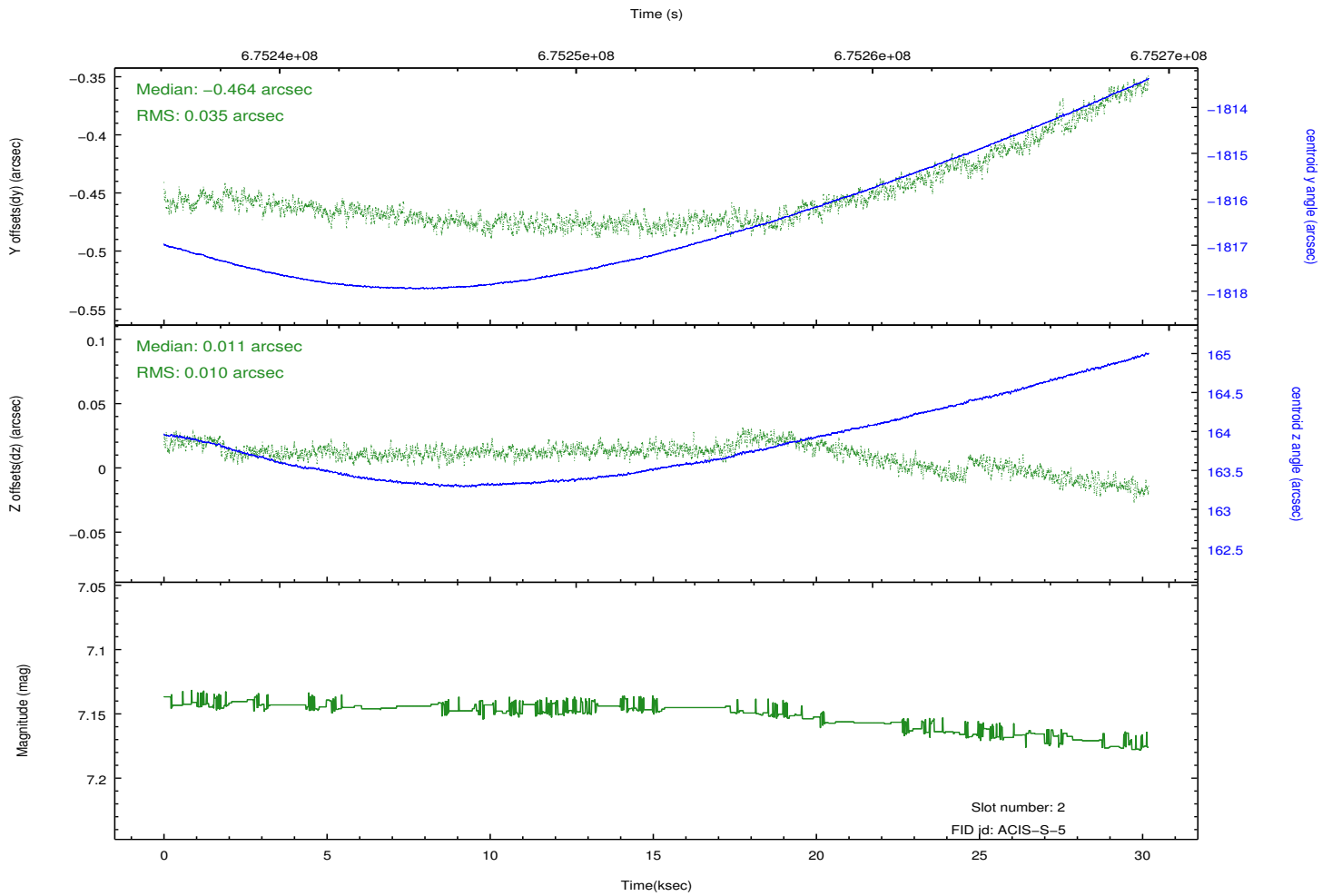
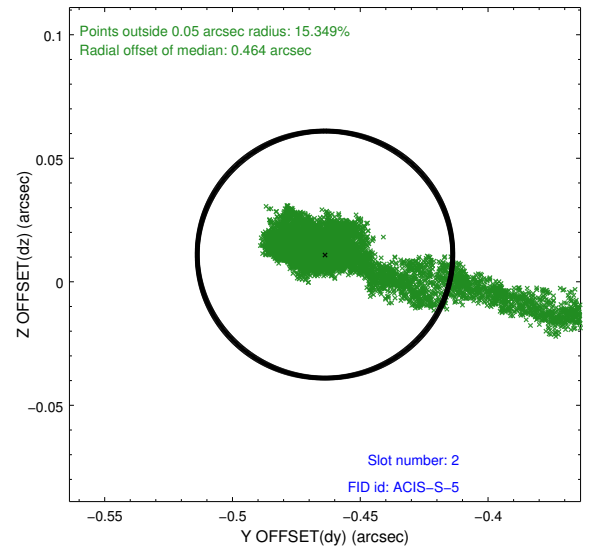
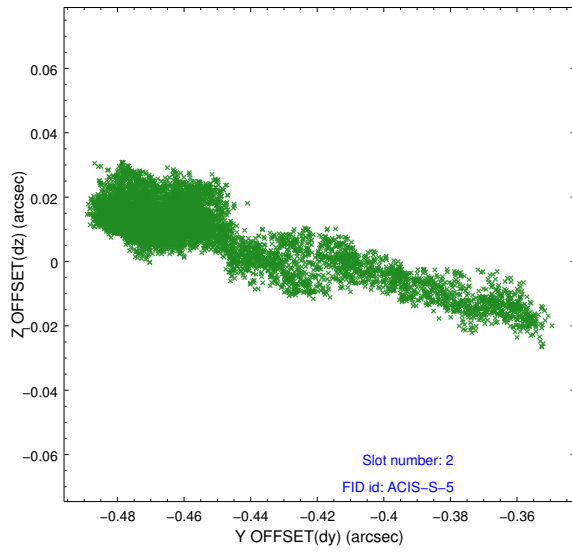
2.5.1 Slot 0



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)	2019.05.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.070398207545

A.2 Comments