

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 22082 - L2 Version 1
Chandra X-Ray Center

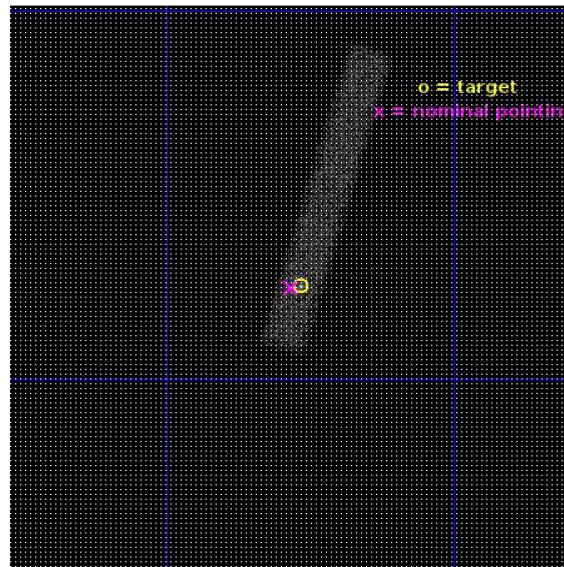
L2 Processing Date : Feb 7 2019

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

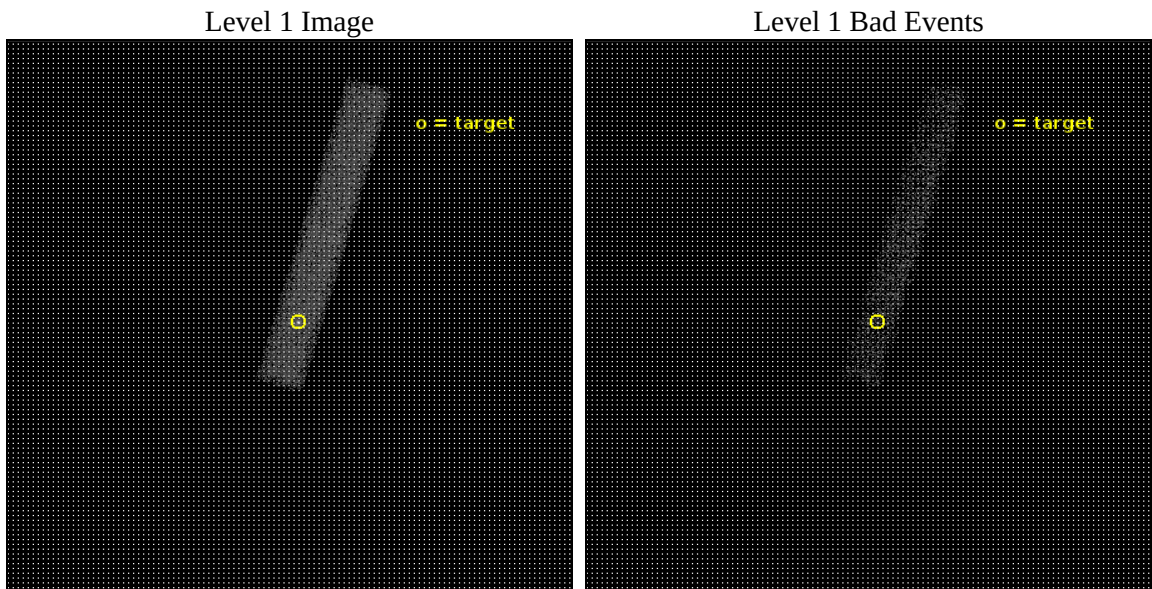
seq_num	703729	Sequence number
obs_id	22082	Observation id
title	X-ray and UV monitoring of the extraordinary changing-look AGN Mrk 1018	Proposal title
observer	Mirko Krumpe	Principal investigator
object	Mrk1018	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	31.566667	Observer's specified target RA [deg]
dec_targ	-0.291389	Observer's specified target Dec [deg]
ra_nom	31.570670153103	Nominal RA [deg]
dec_nom	-0.29230827865563	Nominal Dec [deg]
roll_nom	286.15662804381	Nominal Roll [deg]
revision	1	Processing version of data
ontime	20069.998803616	Sum of GTIs [s]
livetime	18202.429533481	Livetime [s]
ontime7	20069.998803616	Sum of GTIs [s]
l2events	16234	Number of level 2 events



2 OBI

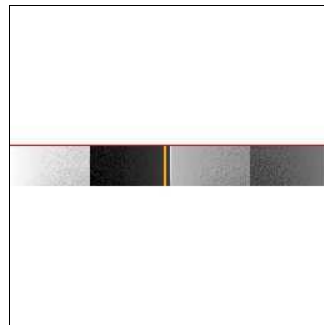
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	20069.998803616	Sum of GTIs [s]
caldsver	4.8.2	 	ontime7	20069.998803616	Sum of GTIs [s]
date	2019-02-07T20:34:52	Date and time of file creation	l1events	29701	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

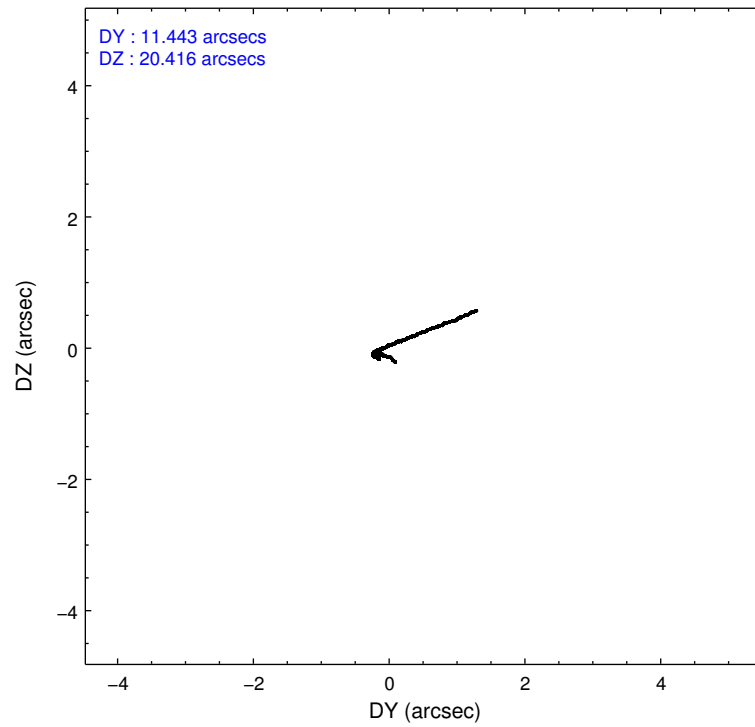
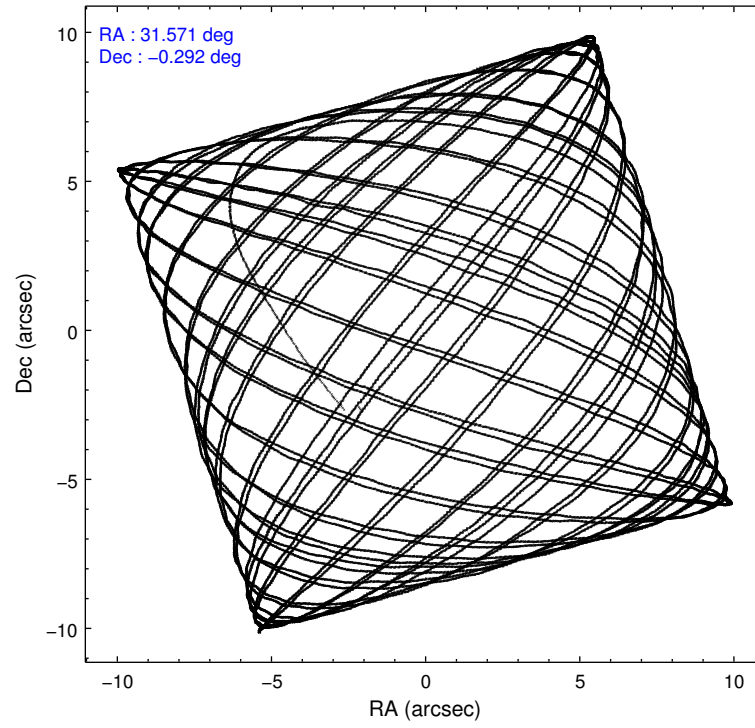
	ccd 7
level 1 events	29701
rejected events	12895
rejected %	43%

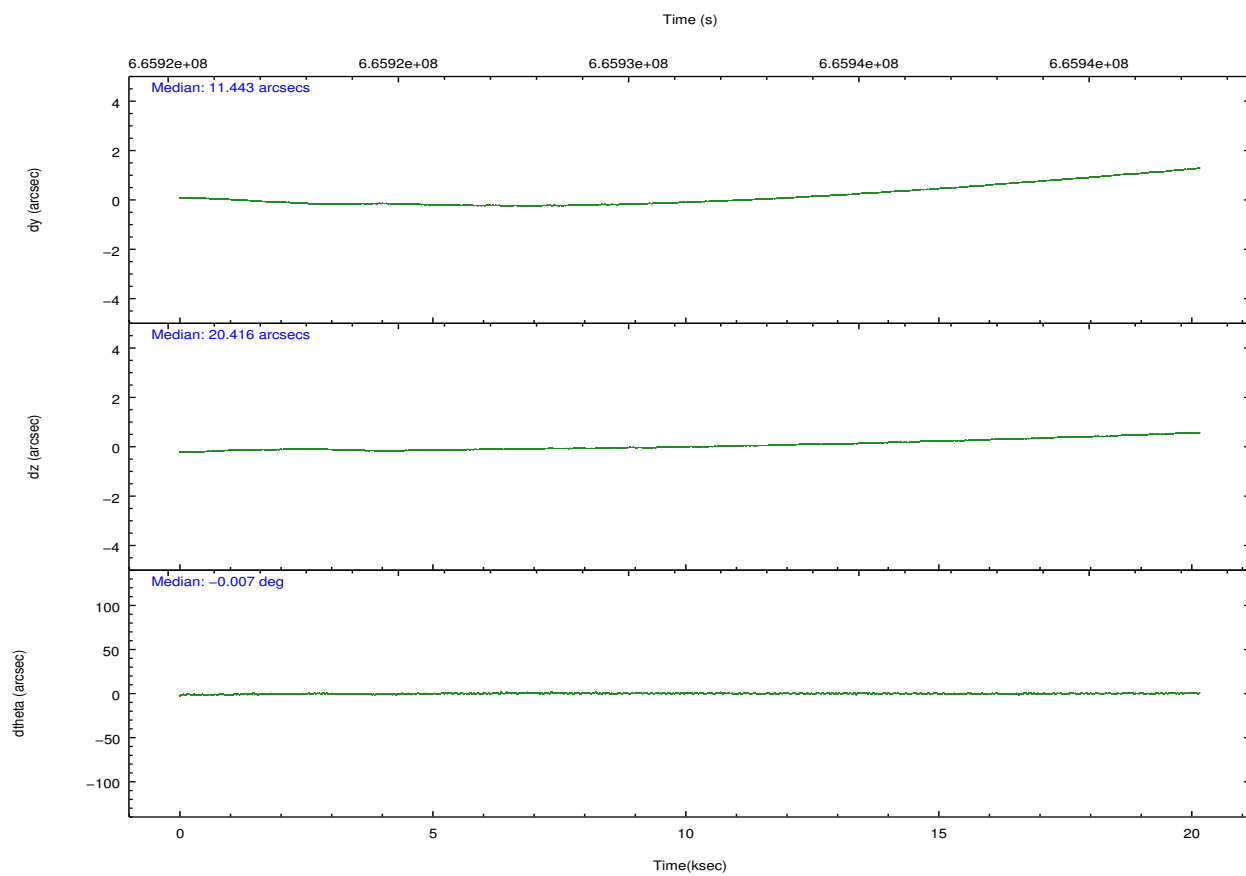
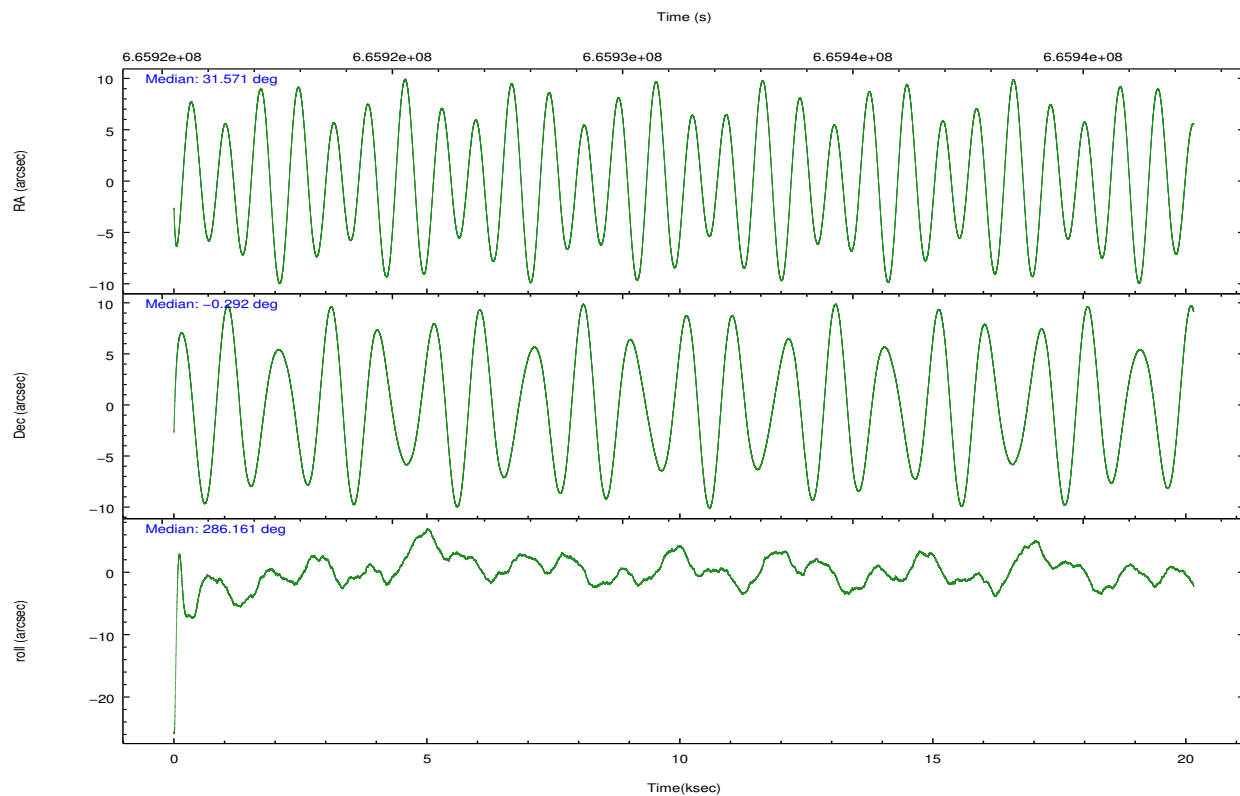
	ccd 7
grade 0 events	2284
	7%
grade 1 events	50
	0%
grade 2 events	3532
	11%
grade 3 events	2090
	7%
grade 4 events	2065
	6%
grade 5 events	2733
	9%
grade 6 events	6835
	23%
grade 7 events	10112
	34%

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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	31.550631	31.57067015310253	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-0.273573	-0.2923082786556336	Subarray start row	449	449
[deg] Pointing Roll	285.999924	286.1566280438103	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)	665921421.184000	665920542.1427			
Observation start date	2019-02-07T10:09:12	2019-02-07T09:55:42			
[s] Observation end time (MET)	665941421.184000	665941953.88148			
Observation end date	2019-02-07T15:42:32	2019-02-07T15:52:33			
Read mode	TIMED	TIMED			

2.3 Aspect



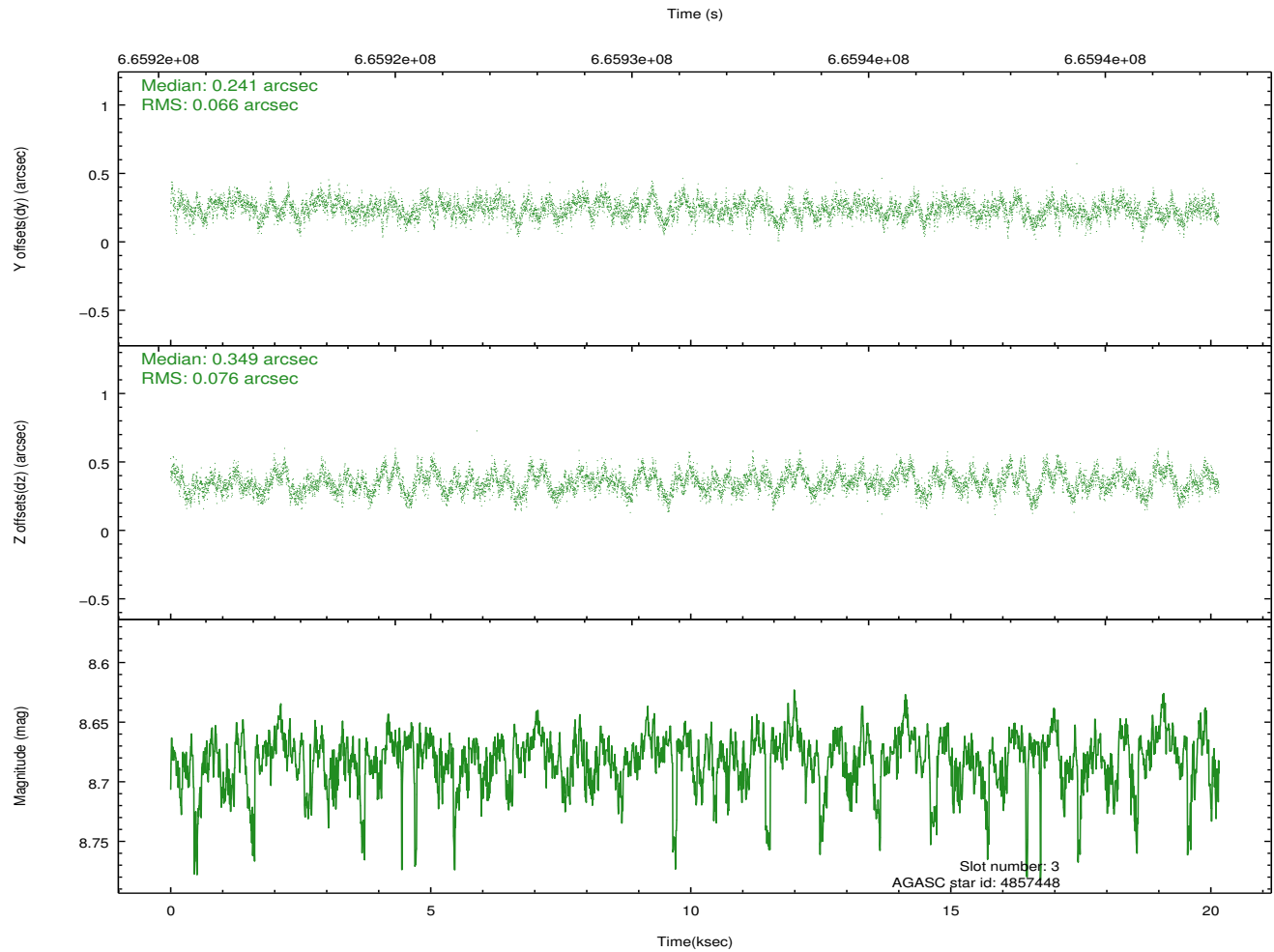
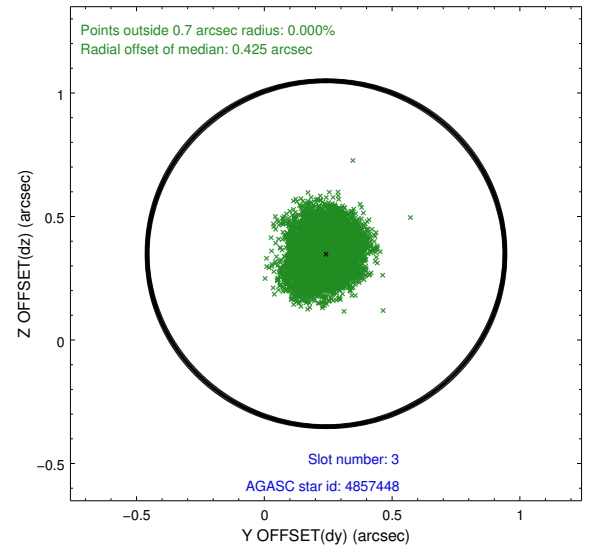
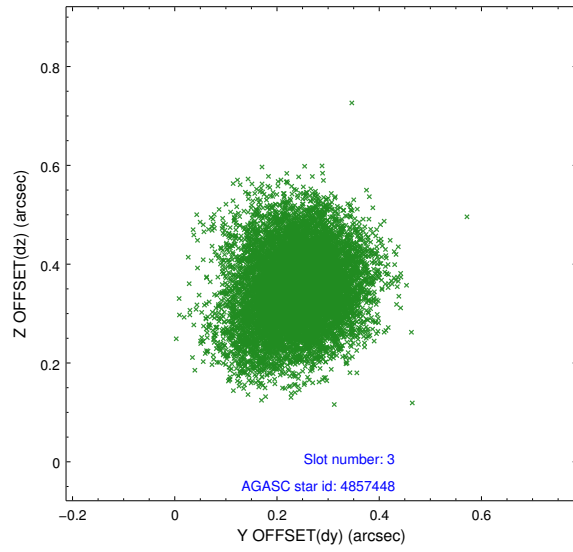


Slot Statistics

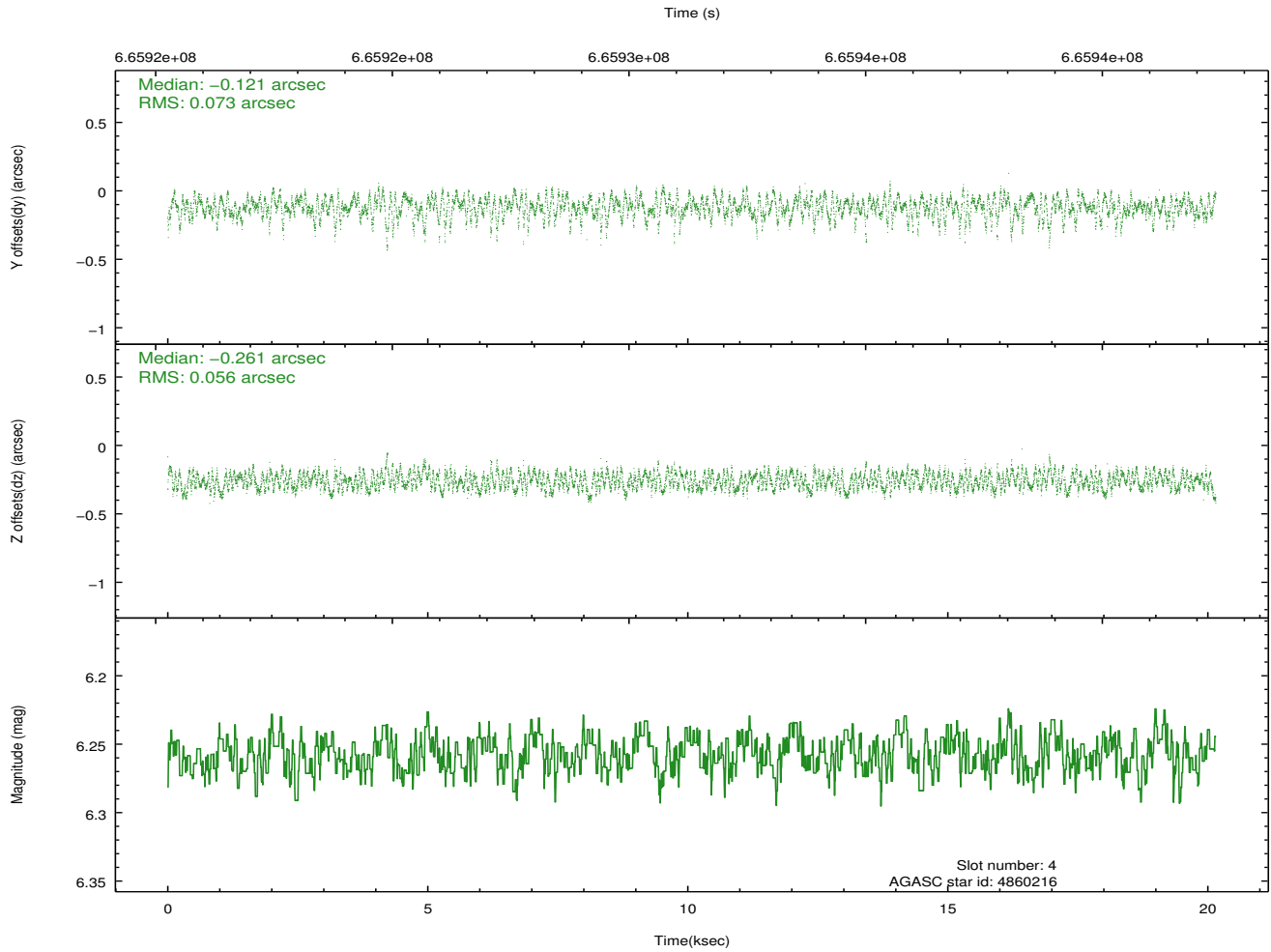
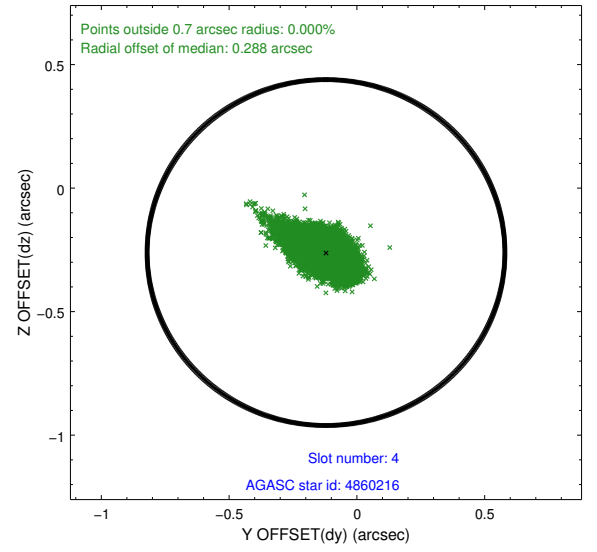
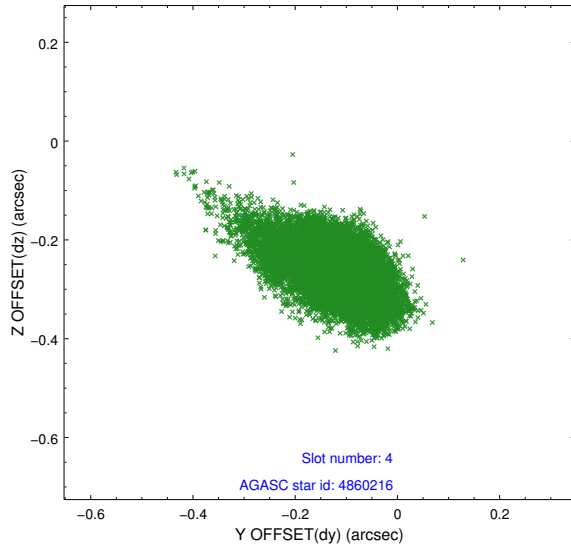
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.05	4917	1.000	-0.302	-0.116	0.015	0.034	0.000000	0.000000	-764.72	-1742
1	FID		ACIS-S-4	7.19	4915	1.000	0.666	0.176	0.012	0.021	0.000000	0.000000	2149.35	166
2	FID		ACIS-S-5	7.17	4917	1.000	-0.399	-0.051	0.016	0.037	0.000000	0.000000	-1817.52	160
3	GUIDE	used	4857448	8.68	9826	1.000	0.241	0.349	0.108	0.173	31.329717	0.322843	-2282.31	-172
4	GUIDE	used	4860216	6.26	9833	1.000	-0.121	-0.261	0.094	0.160	31.622105	0.035388	-998.28	555
5	GUIDE	used	614603000	8.72	9820	1.000	0.428	0.265	0.100	0.166	31.292832	-0.000879	-1198.63	-621
6	GUIDE	used	614605504	7.26	9832	1.000	-0.486	-0.184	0.078	0.128	32.113697	-0.419301	1062.53	1804
7	GUIDE	used	614606448	6.97	9829	1.000	-0.055	-0.156	0.082	0.134	31.892805	-0.617418	1534.71	836

2.4 Star Slots

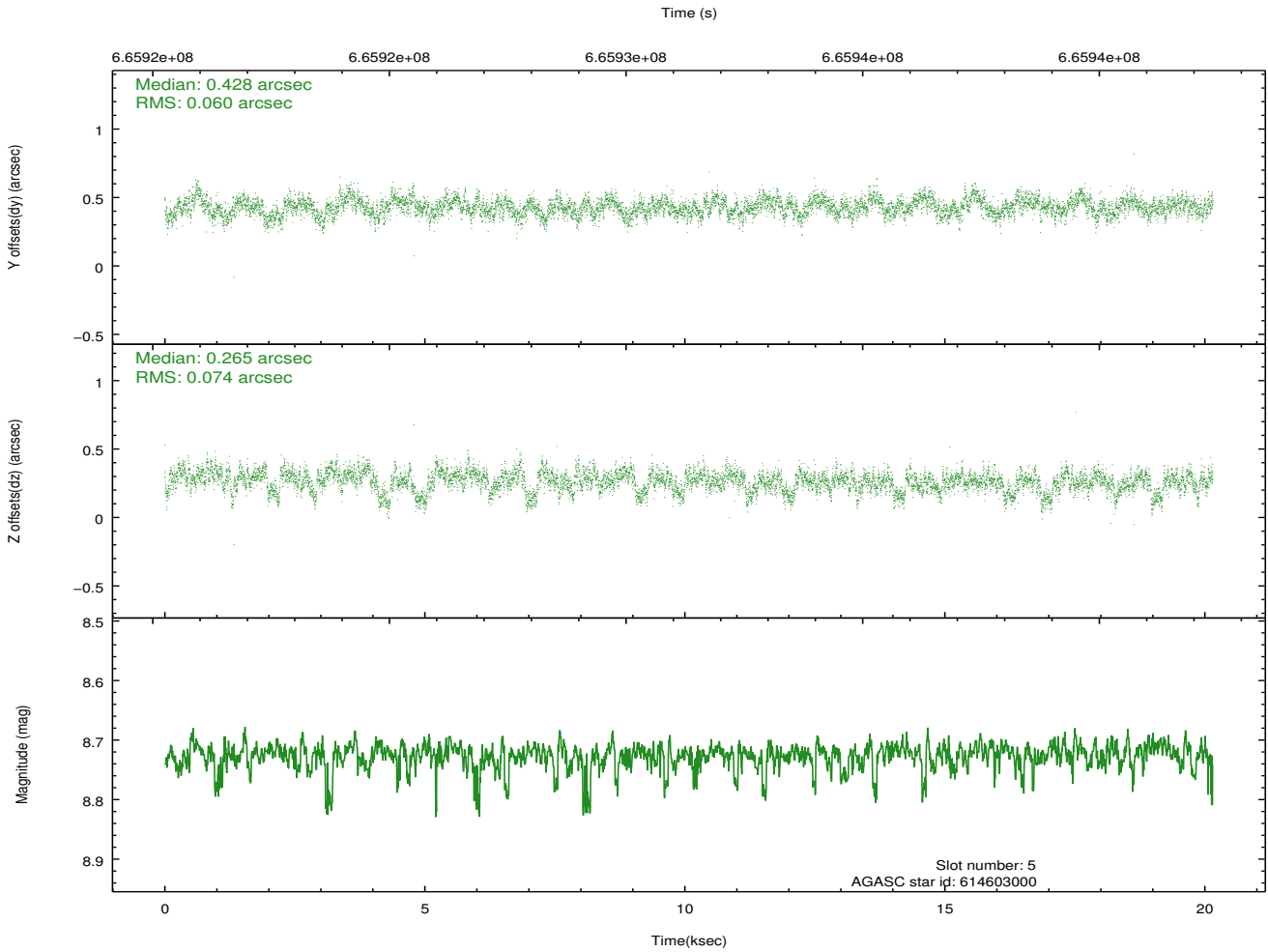
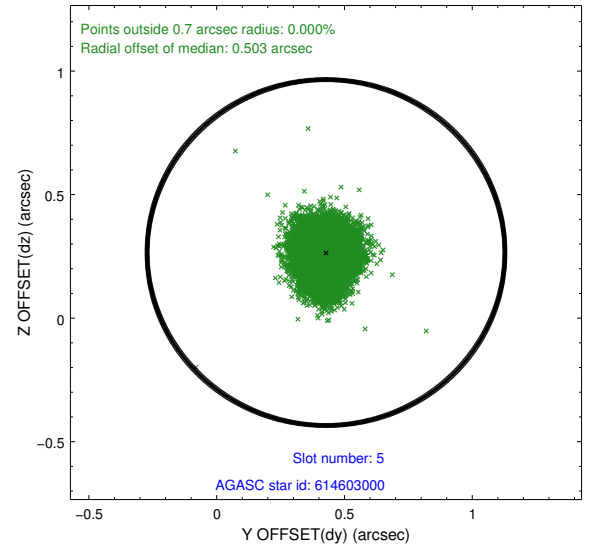
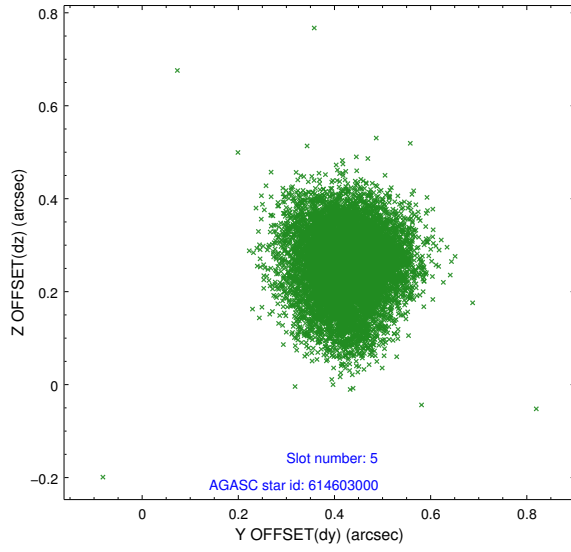
2.4.1 Slot 3



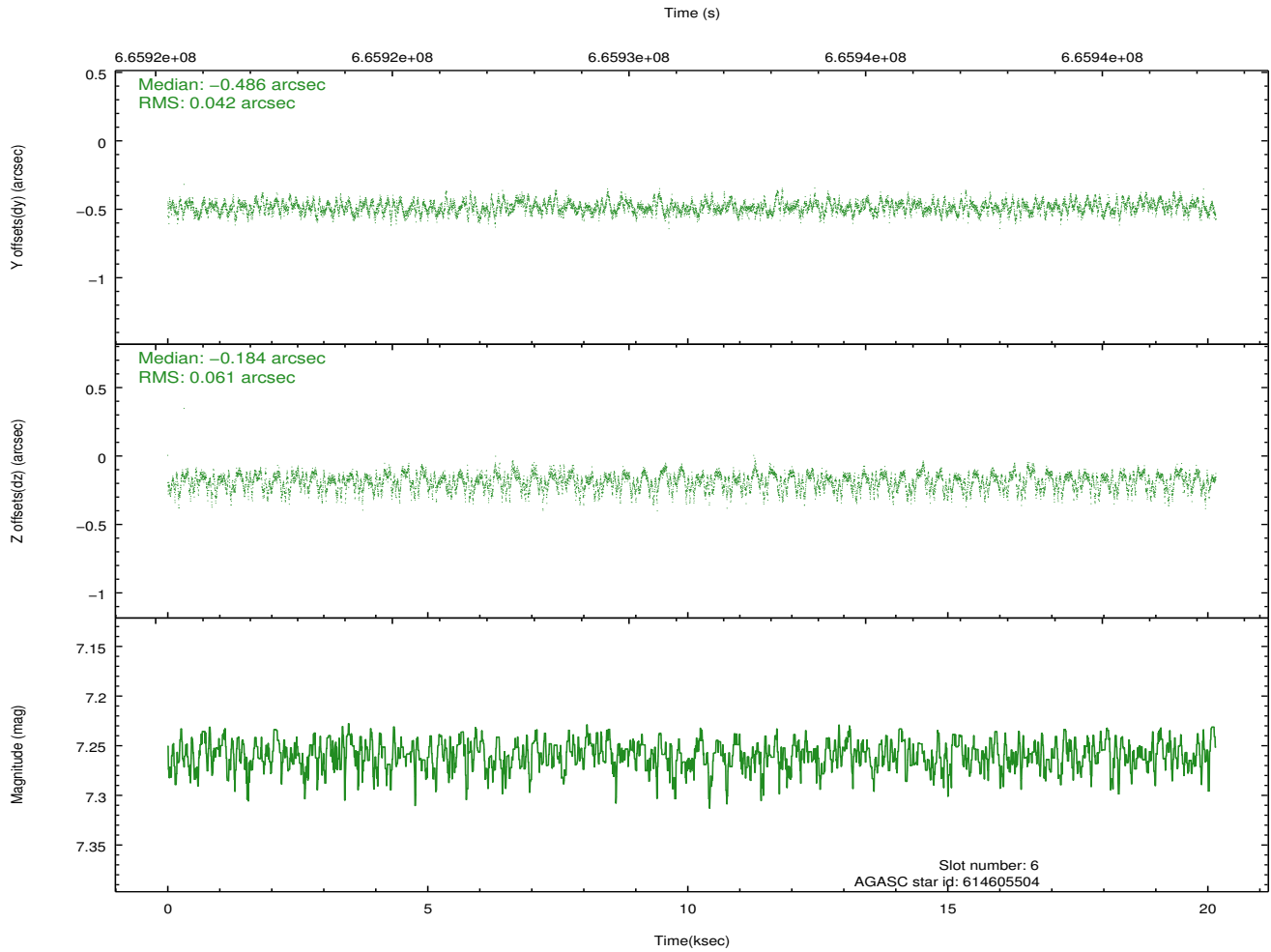
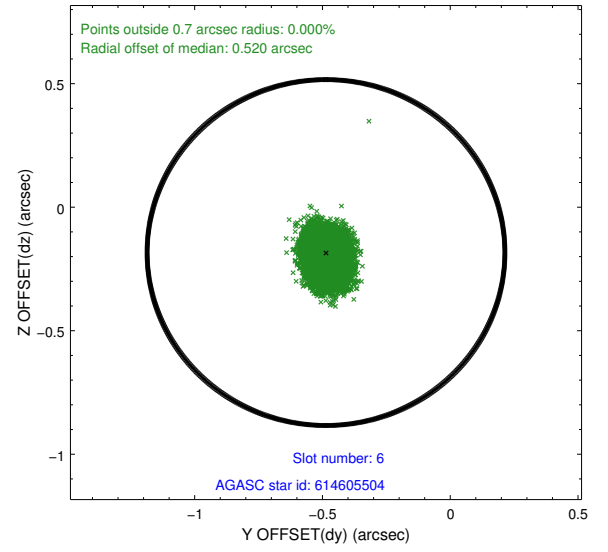
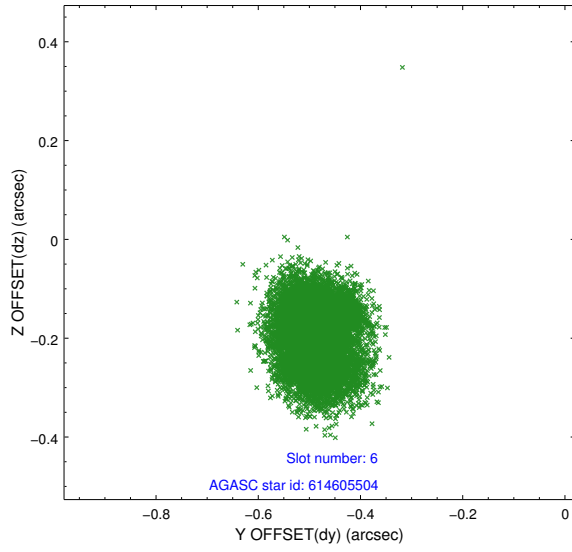
2.4.2 Slot 4



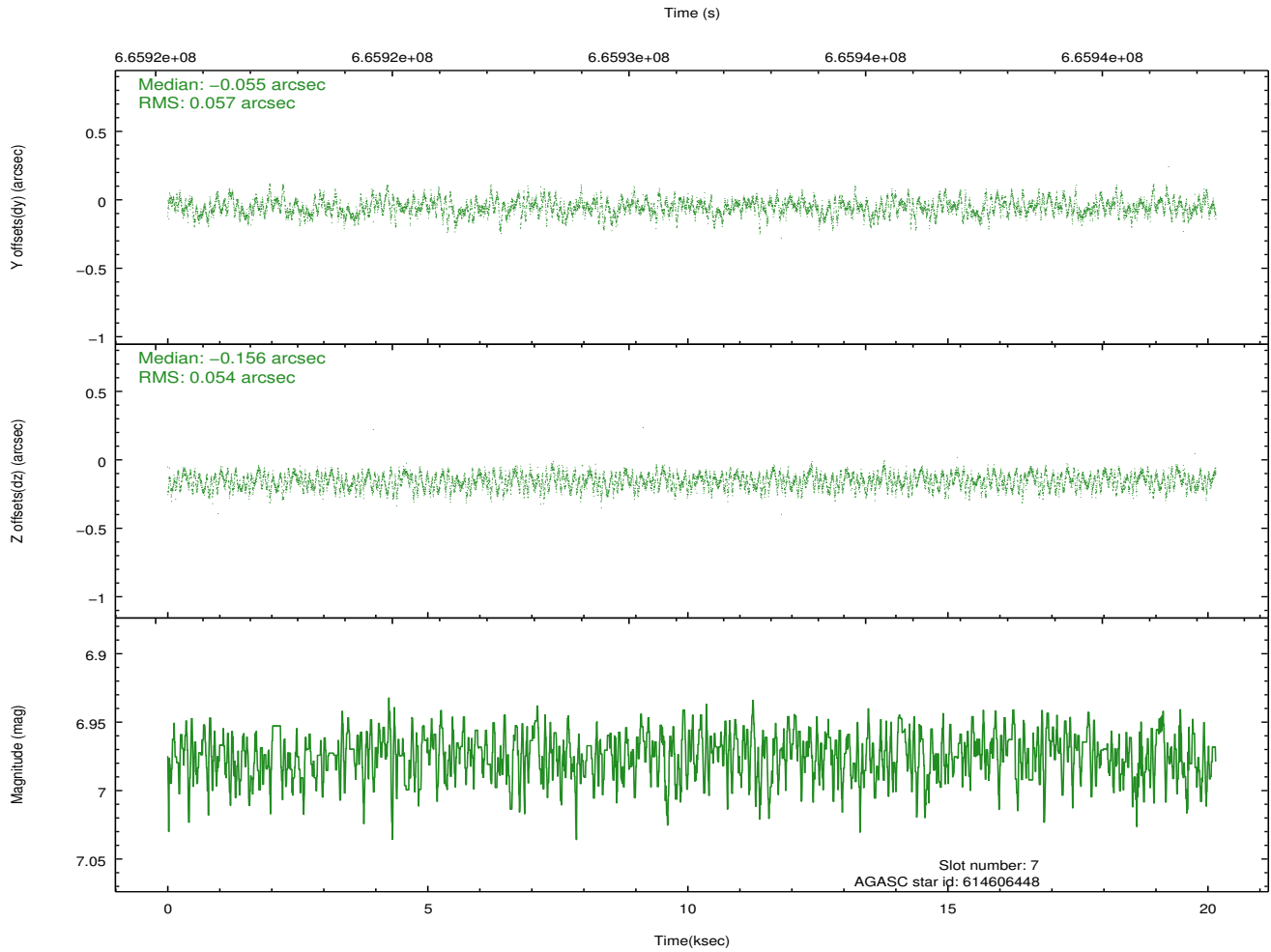
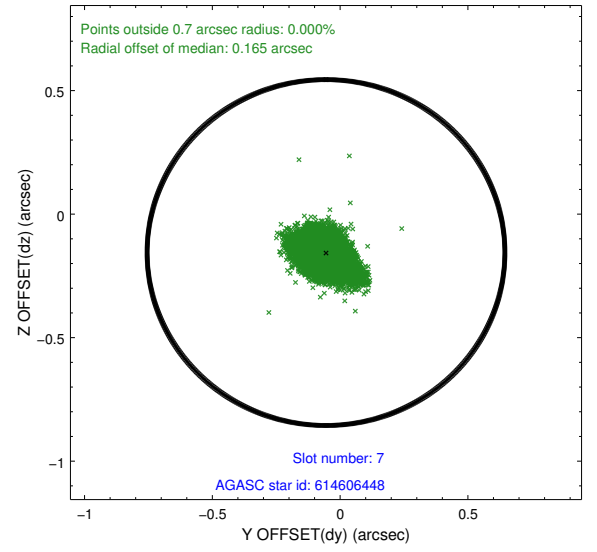
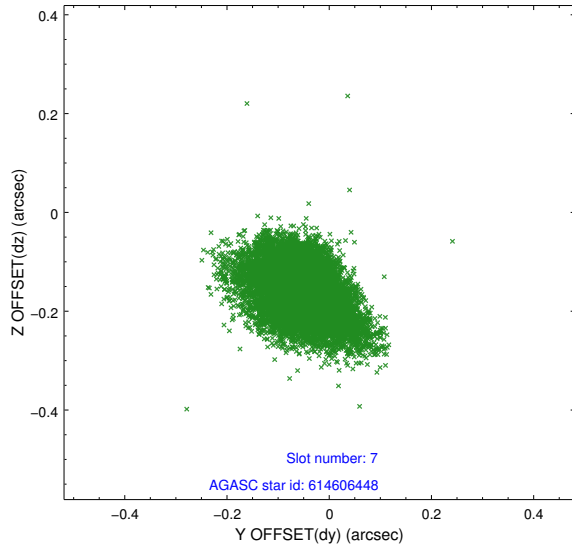
2.4.3 Slot 5



2.4.4 Slot 6

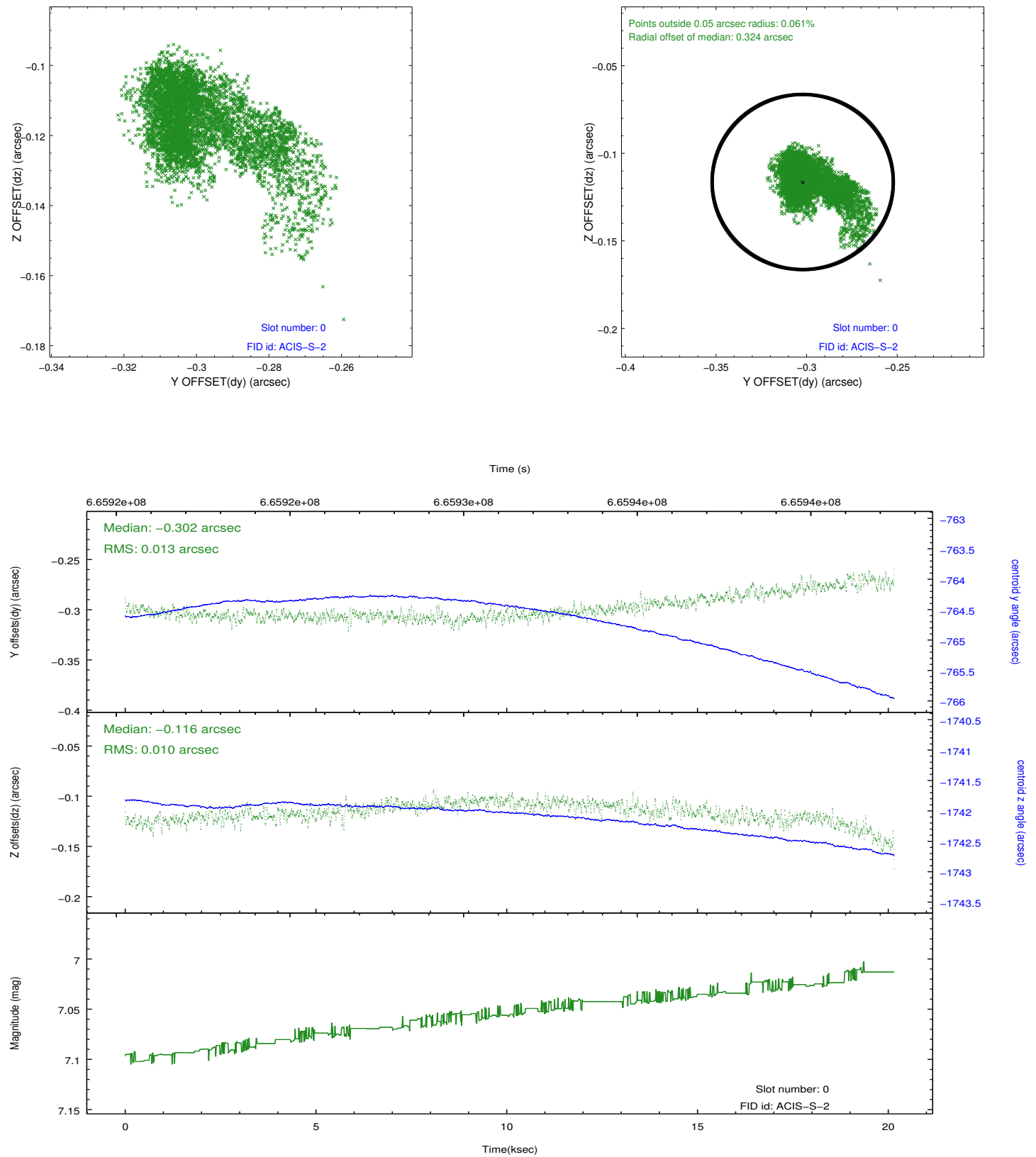


2.4.5 Slot 7

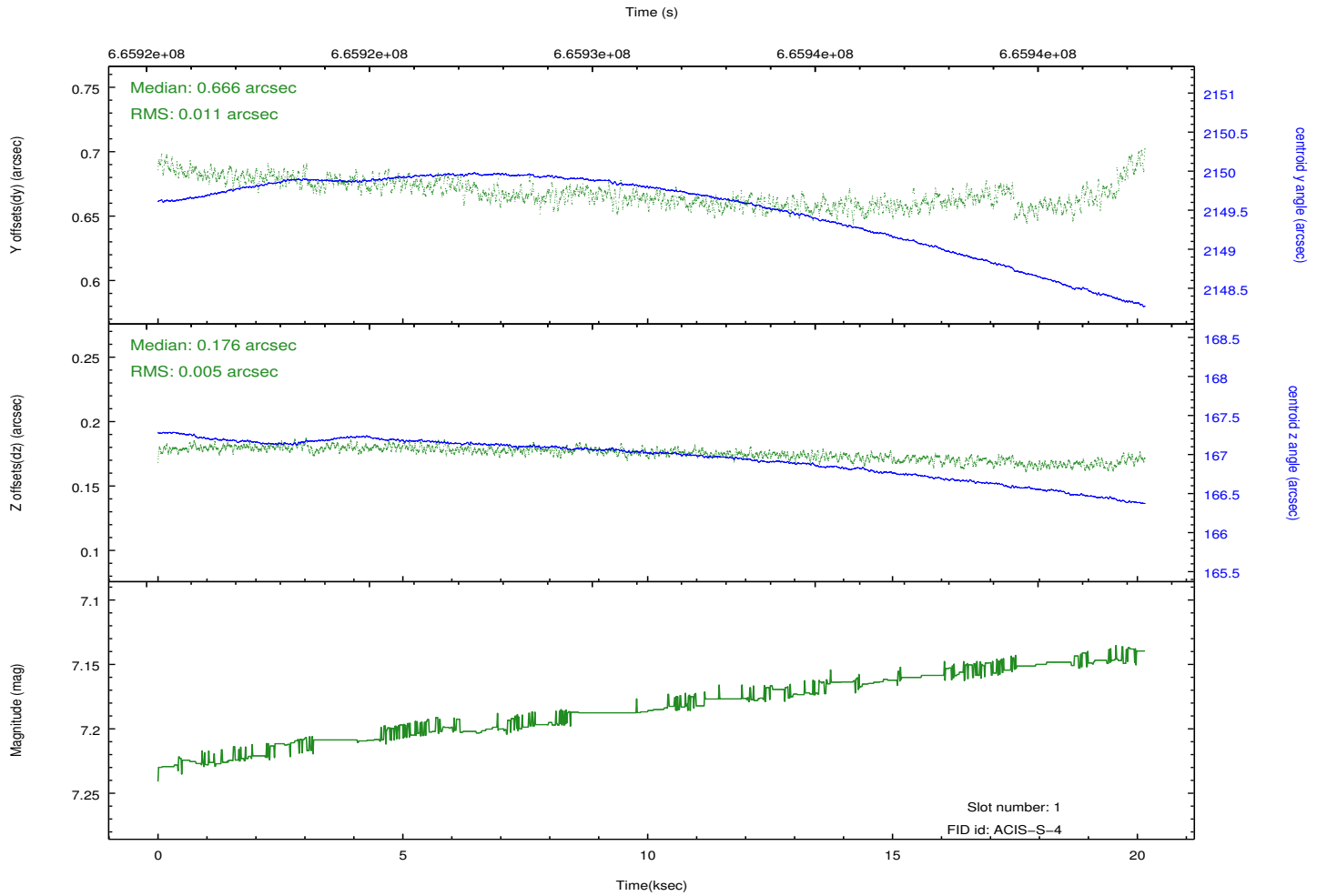
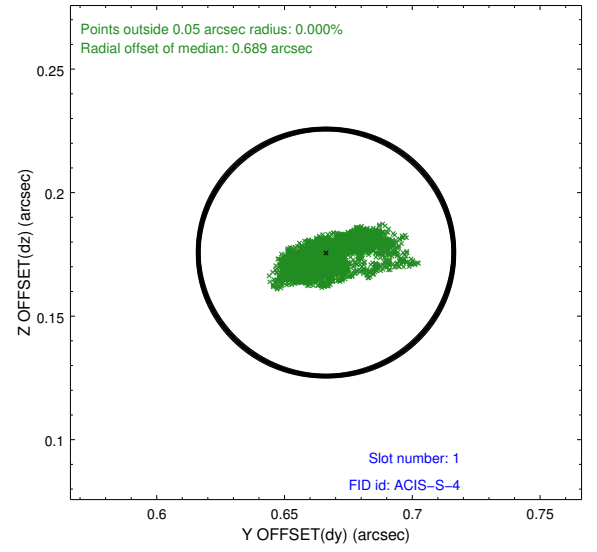
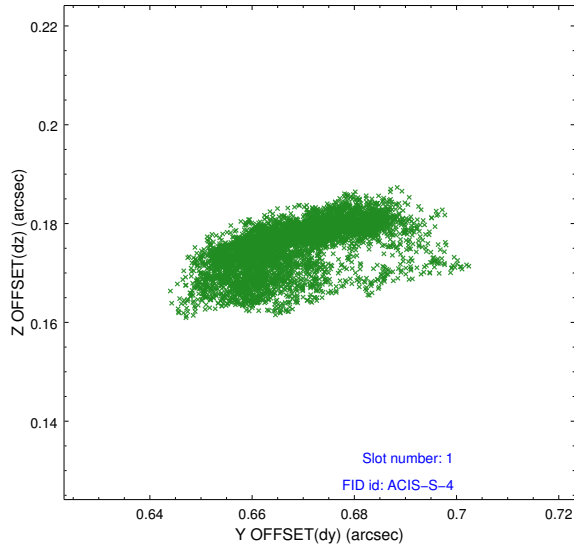


2.5 FID Slots

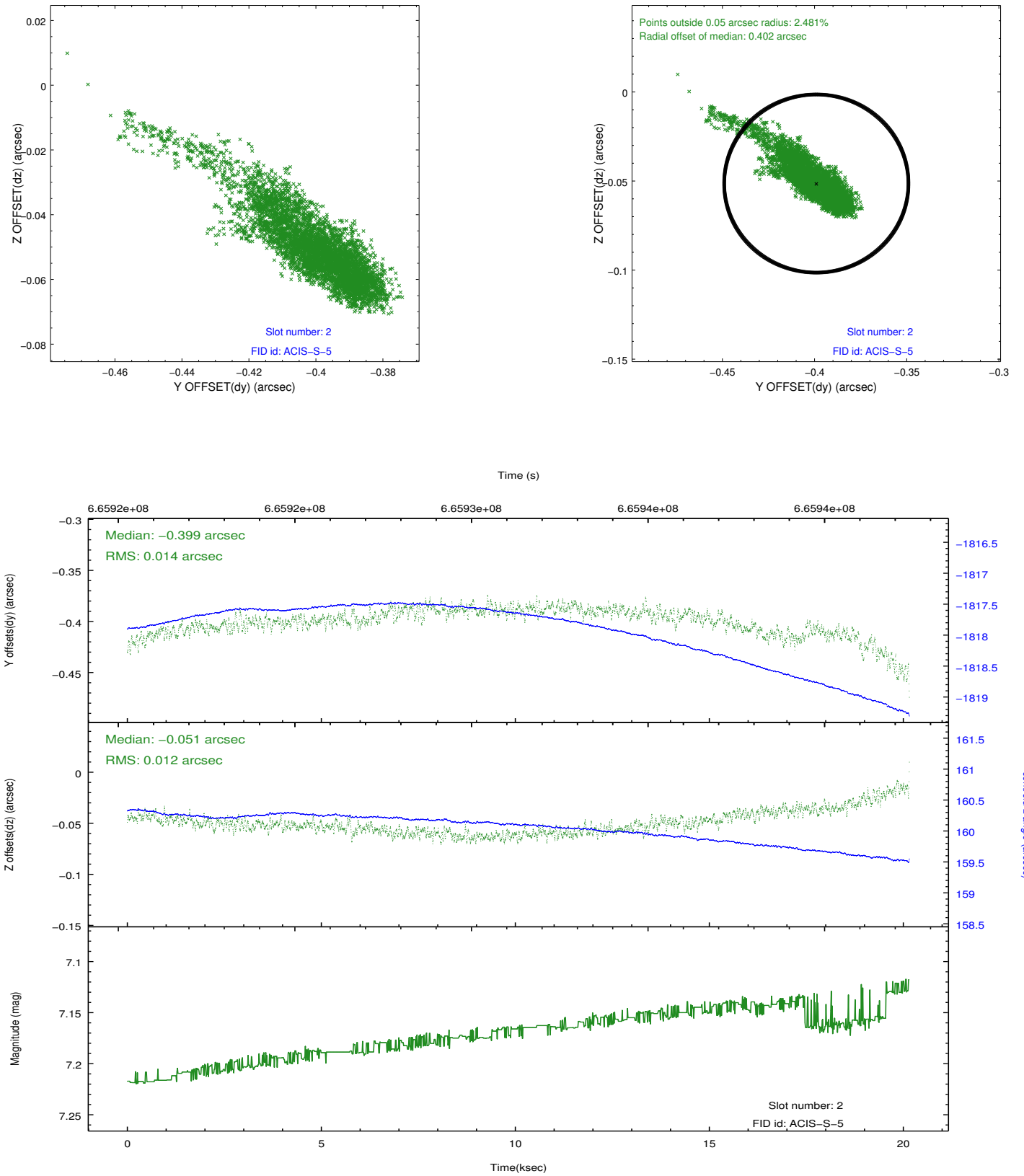
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2019.02.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.069998803616

A.2 Comments

Joint proposal with HST.

Observation coordinated with HST.