

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 16364 - L2 Version 1
Chandra X-Ray Center

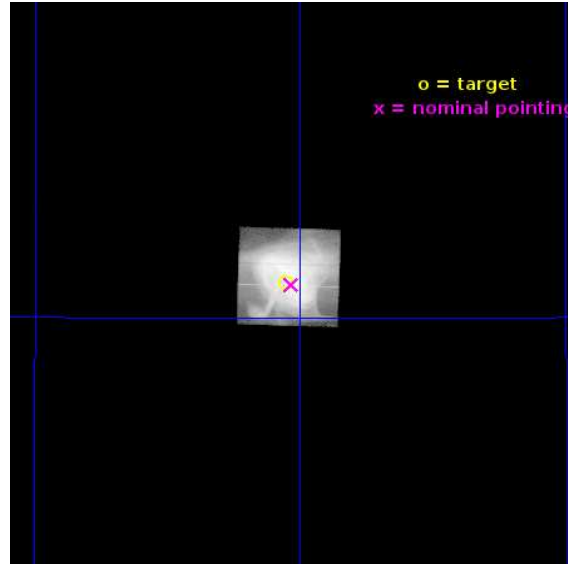
L2 Processing Date : Apr 21 2016

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1 Front

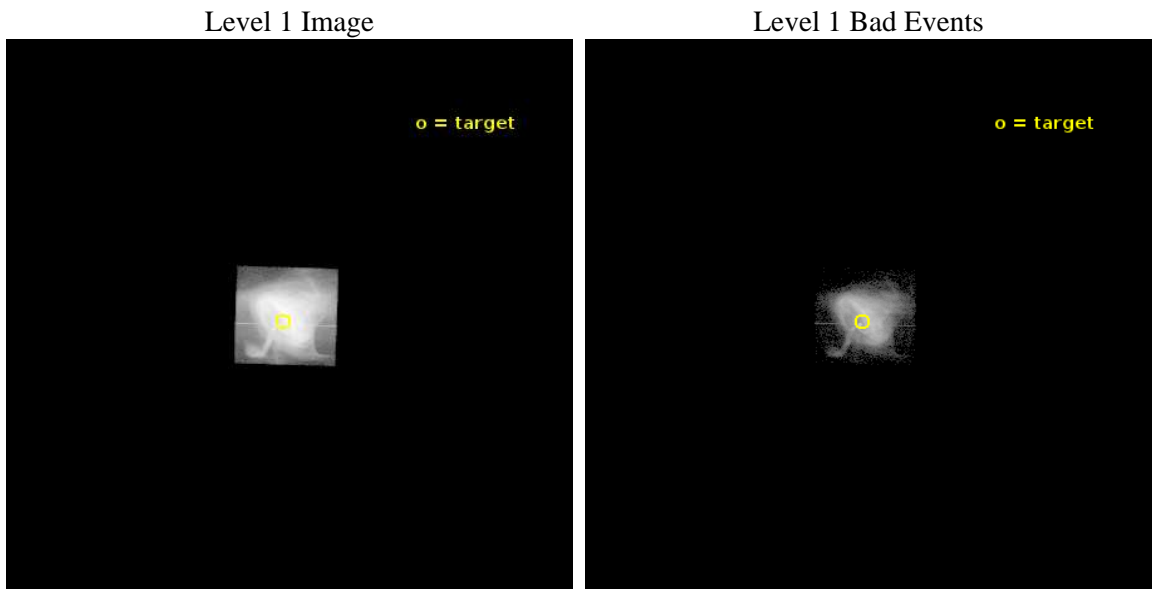
seq_num	502262	Sequence number
obs_id	16364	Observation id
title	Joint Chandra and HST Monitoring and Studies of the Crab Nebula	Pr
observer	Dr. Martin Weisskopf	Principal investigator
object	Crab	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	83.631667	Observer's specified target RA [deg]
dec_targ	22.015667	Observer's specified target Dec [deg]
ra_nom	83.629101560561	Nominal RA [deg]
dec_nom	22.014779303415	Nominal Dec [deg]
roll_nom	271.76180340525	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8729.0588126183	Sum of GTIs [s]
livetime	1430.6180039036	Livetime [s]
ontime7	8729.0588126183	Sum of GTIs [s]
l2events	3430123	Number of level 2 events



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	9766.720000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	8729.0588126183	Sum of GTIs [s]
caldsver	4.7.1	 	ontime7	8729.0588126183	Sum of GTIs [s]
date	2016-04-21T18:05:16	Date and time of file creation	l1events	3799467	Number of level 1 events
revision	1	Processing version of data			

2.1.3 Events

	ccd 7
level 1 events	3799467
rejected events	321064
rejected %	8%

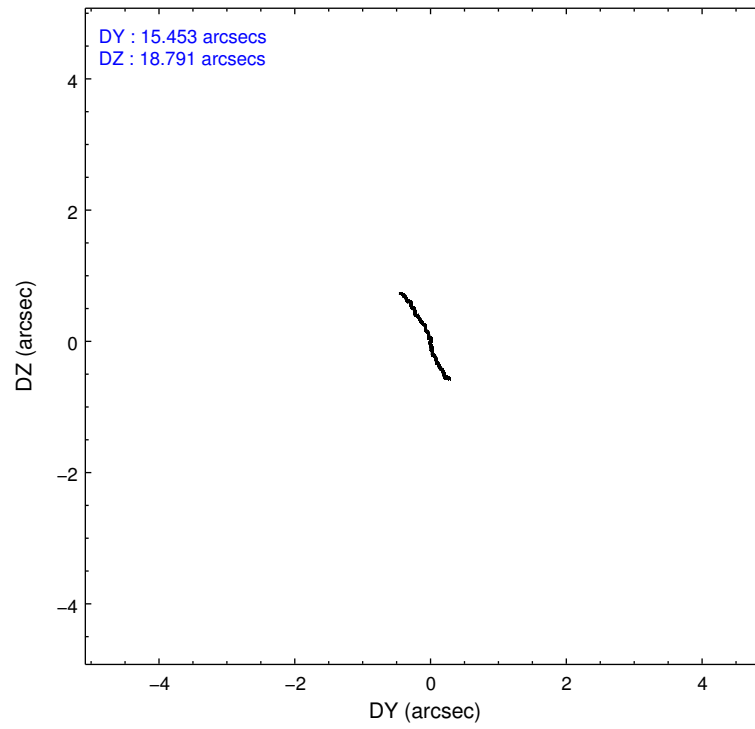
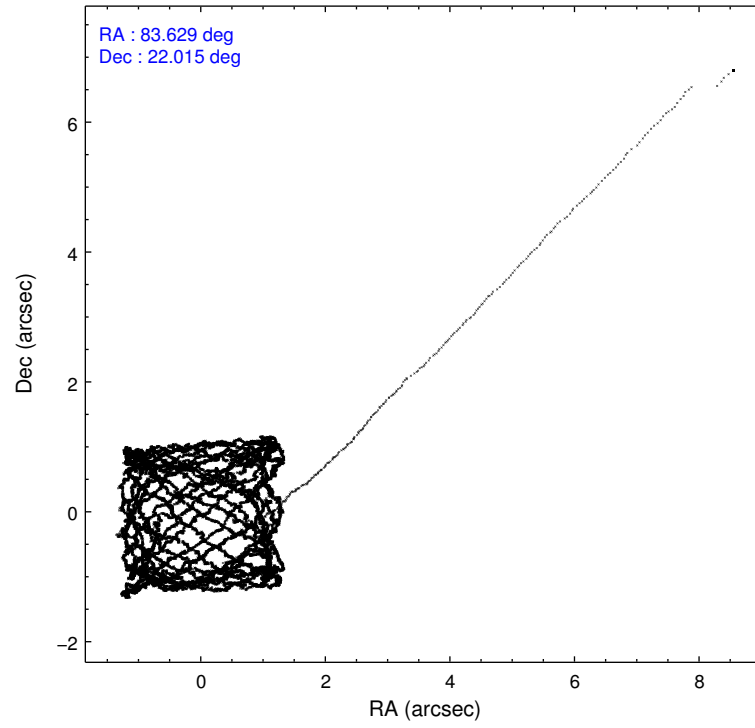
	ccd 7
grade 0 events	757486
	19%
grade 1 events	33078
	0%
grade 2 events	1024124
	26%
grade 3 events	356090
	9%
grade 4 events	349951
	9%
grade 5 events	110850
	2%
grade 6 events	991218
	26%
grade 7 events	176670
	4%

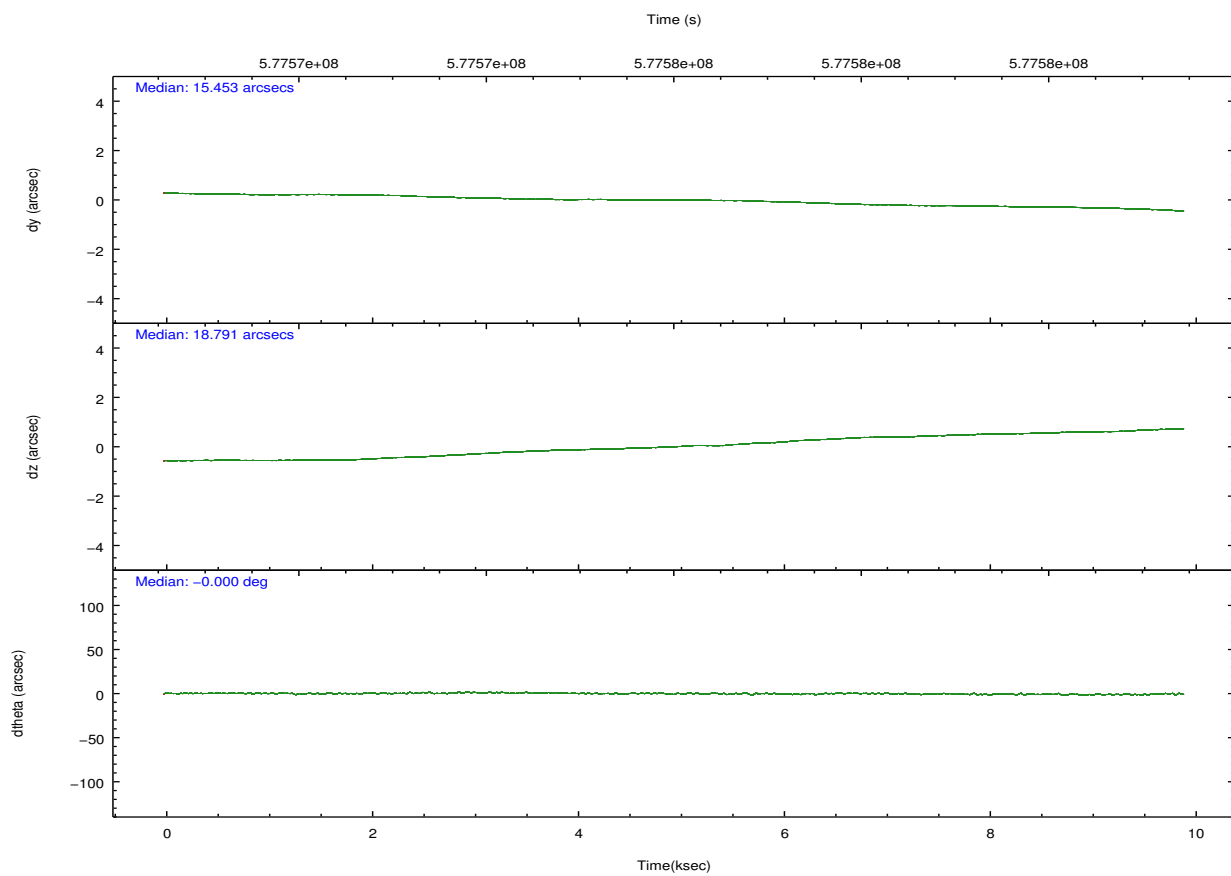
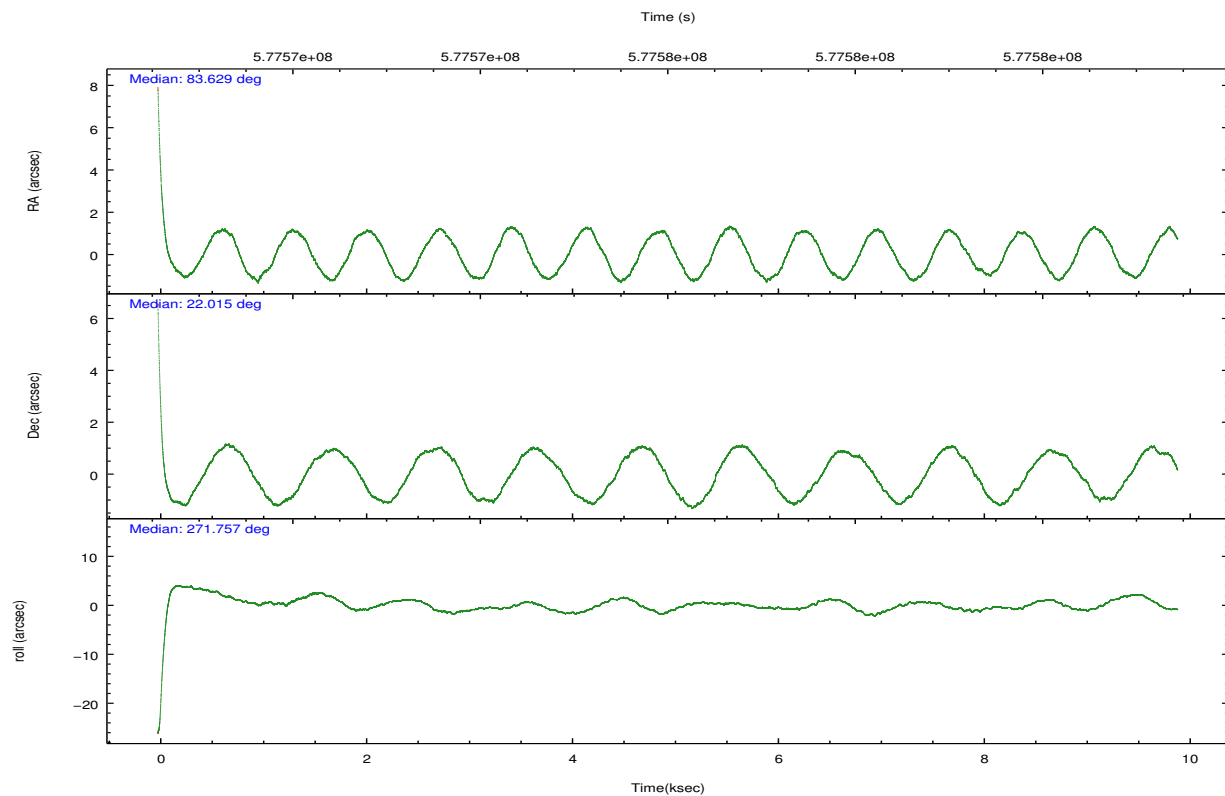
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-7	ACIS-7
Grating	NONE	NONE
Data mode	GRADED	GRADED
Observation mode	POINTING	POINTING
[deg] Pointing RA	83.613178	83.62910156056141
[deg] Pointing Dec	22.037909	22.01477930341503
[deg] Pointing Roll	271.611183	271.761803405253
[s] Window start time (MET)	576374468.184000	576374468.184000
[s] Window stop time (MET)	578102468.184000	578102468.184000
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-195.032523	-195.0278949961045
[mm] SIM translation stage offset	4.9	4.895372413096709
[s] Observation start time (MET)	577571184.184000	577569944.9083101
Observation start date	2016-04-20T20:25:16	2016-04-20T20:05:44
[s] Observation end time (MET)	577580951.184000	577581169.6839499
Observation end date	2016-04-20T23:08:03	2016-04-20T23:12:49
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	CUSTOM	CUSTOM
Subarray start row	525	525
Subarray row count	320	320
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	0.2

2.3 Aspect



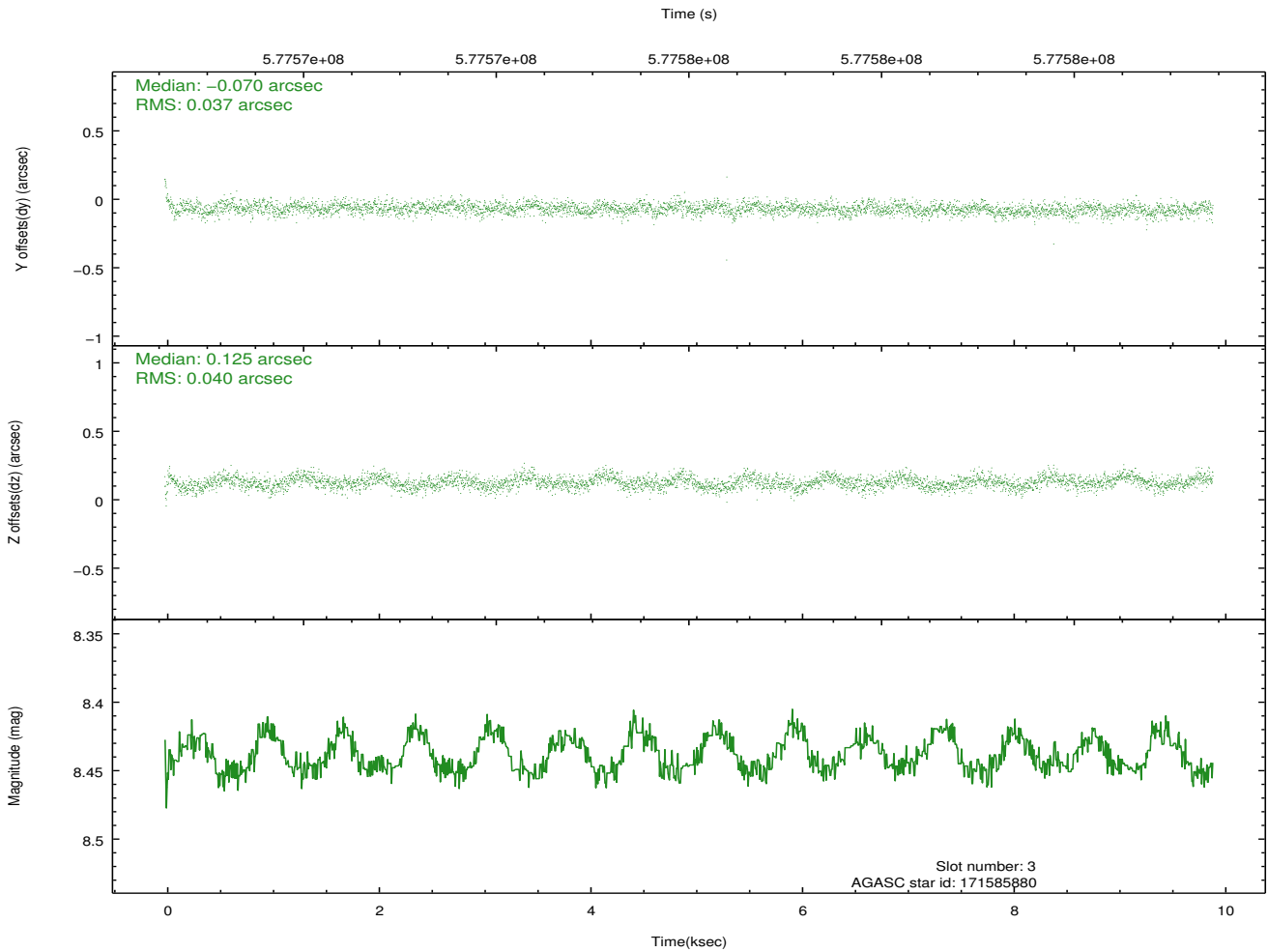
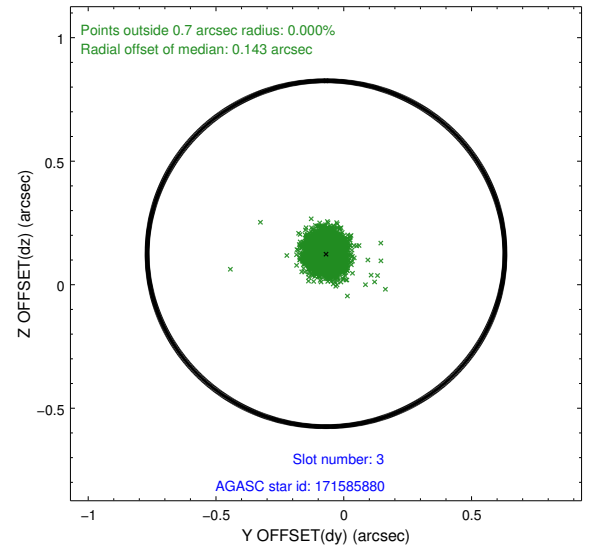
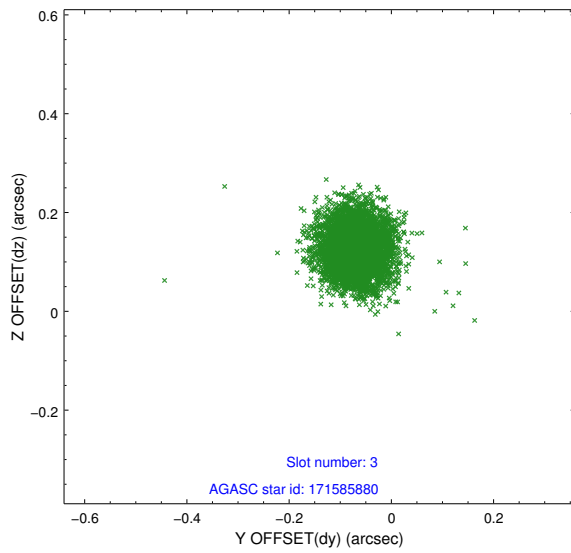


Slot Statistics

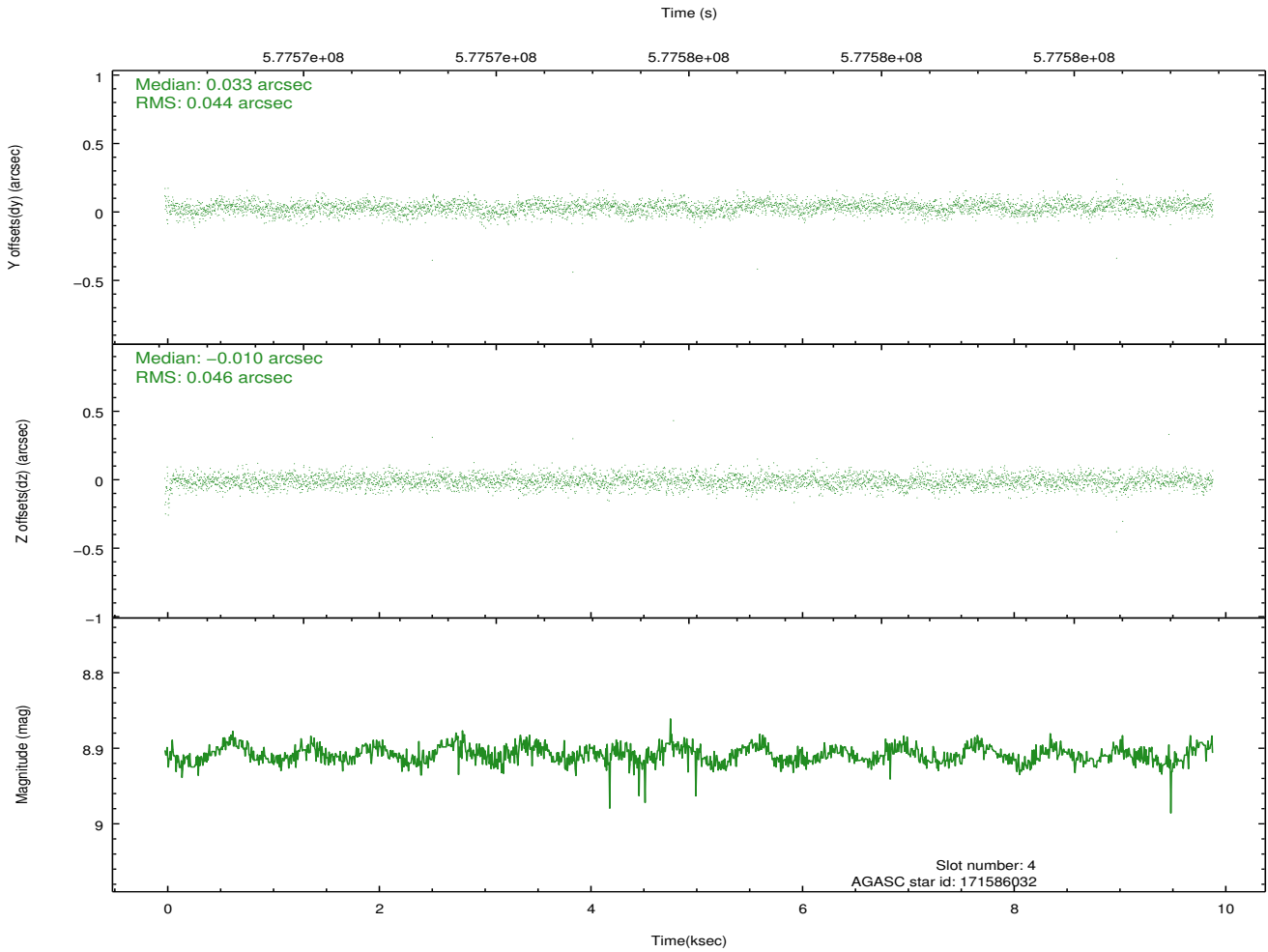
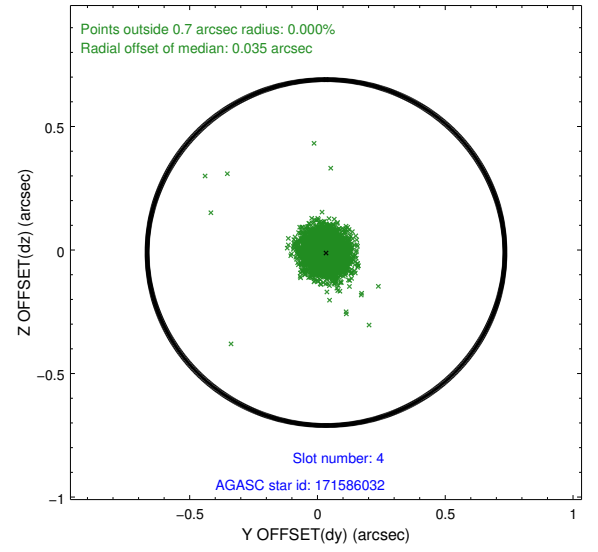
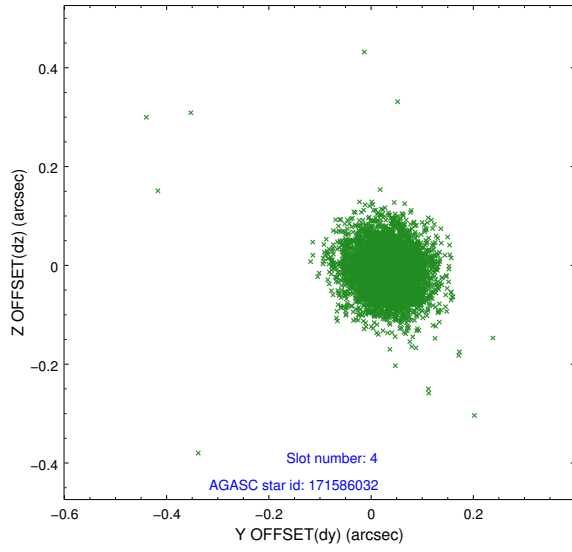
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.11	2417	-0.188	-0.124	0.013	0.020	0.000000	0.000000	-769.00	-1639.61
1	FID		ACIS-S-4	7.23	2417	0.318	0.064	0.015	0.022	0.000000	0.000000	2144.66	268.37
2	FID		ACIS-S-6	7.32	2417	-0.156	0.063	0.014	0.021	0.000000	0.000000	393.86	906.49
3	GUIDE	used	171585880	8.44	4833	-0.070	0.125	0.057	0.093	83.676260	22.176319	-491.80	224.58
4	GUIDE	used	171586032	8.91	4828	0.033	-0.010	0.065	0.107	83.950197	22.083225	-132.37	1128.74
5	GUIDE	used	171721904	9.17	4829	-0.125	0.133	0.079	0.129	84.272676	22.116922	-227.10	2207.37
6	GUIDE	used	243941560	8.27	4832	-0.262	0.079	0.063	0.102	83.733264	22.568598	-1898.24	453.21
7	GUIDE	used	171597832	9.12	4823	0.428	-0.330	0.082	0.137	83.183230	21.366702	2373.56	-1508.59

2.4 Star Slots

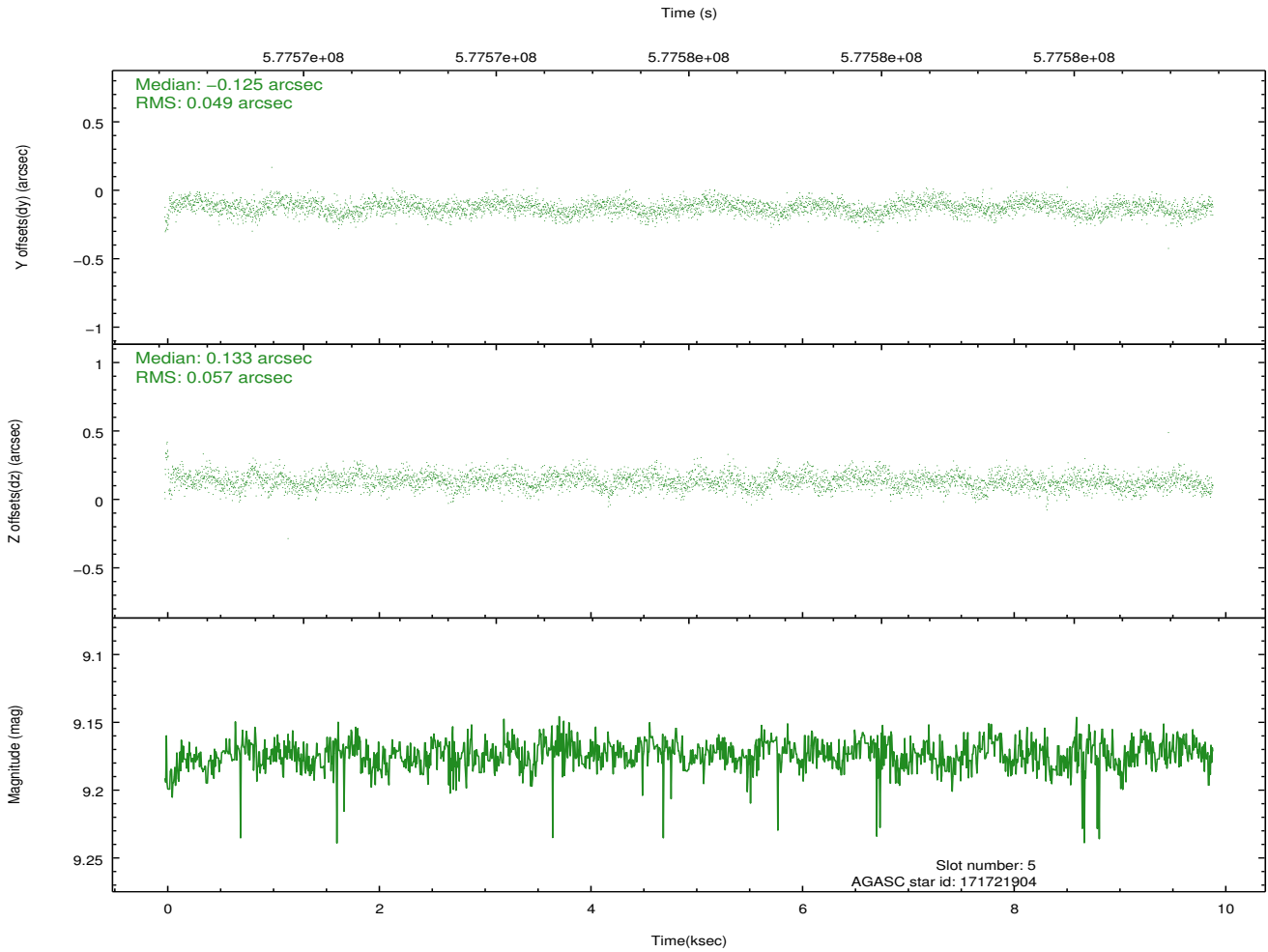
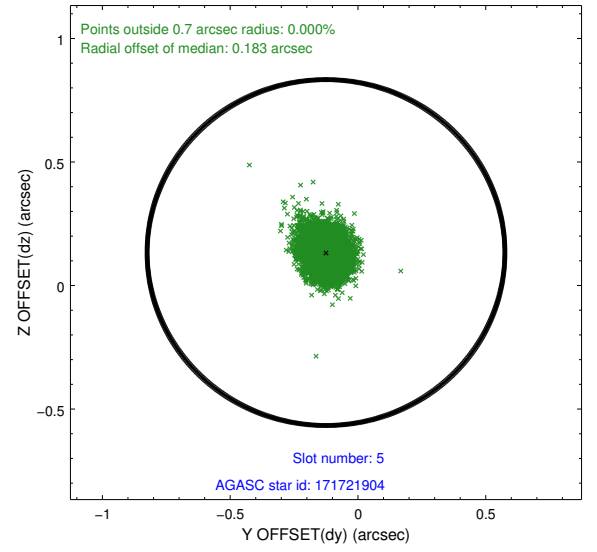
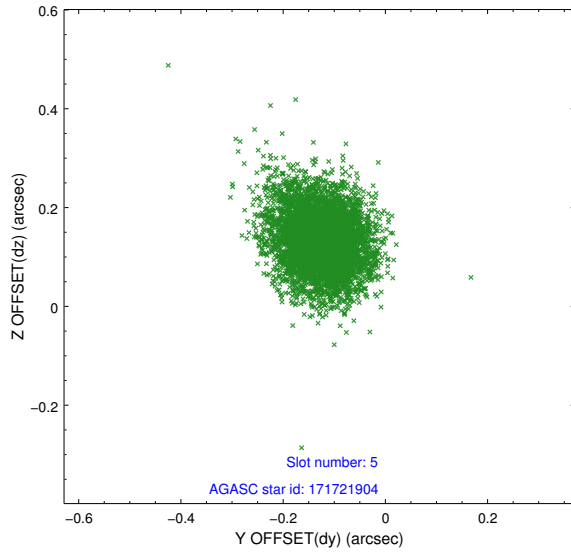
2.4.1 Slot 3



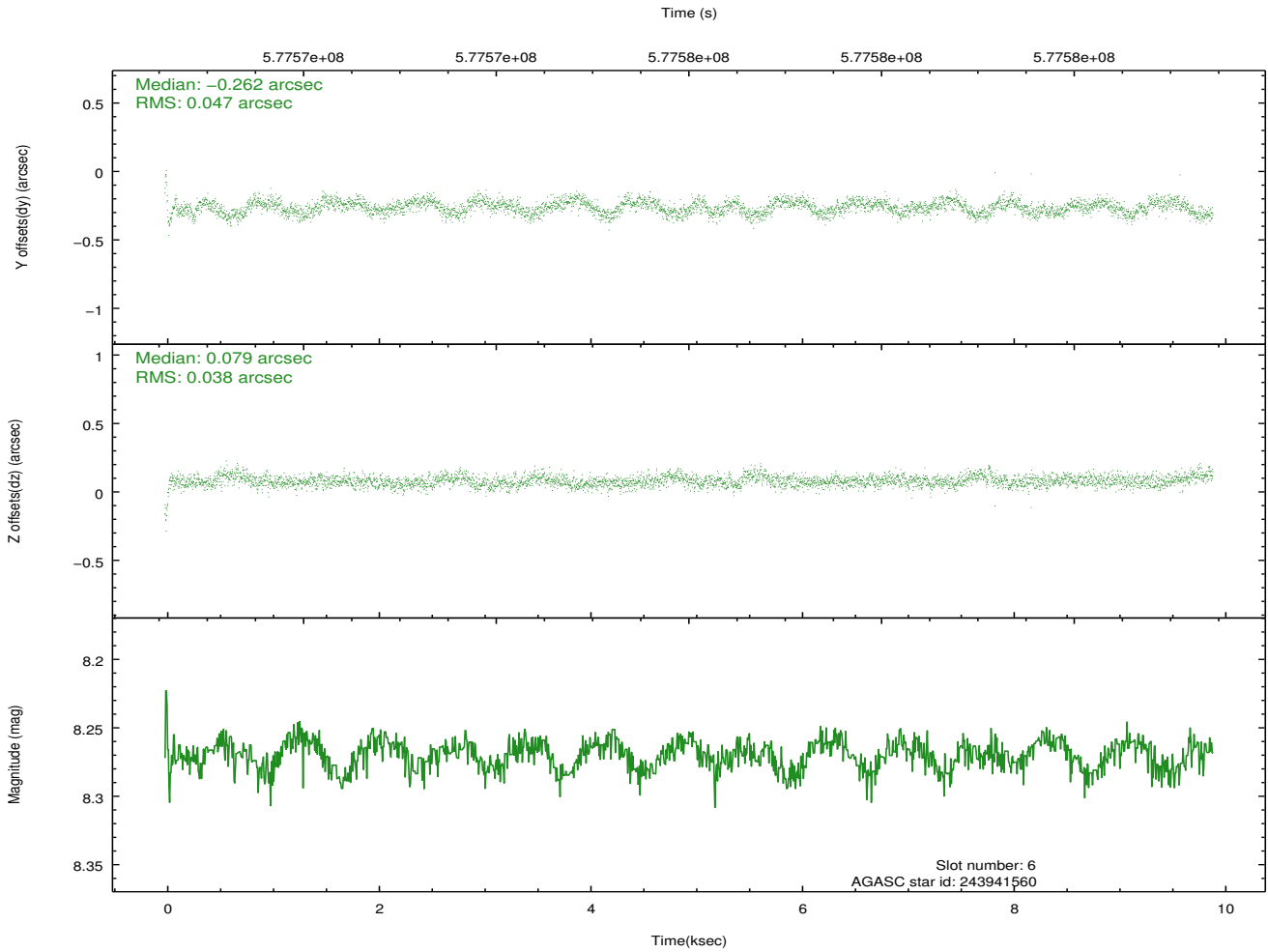
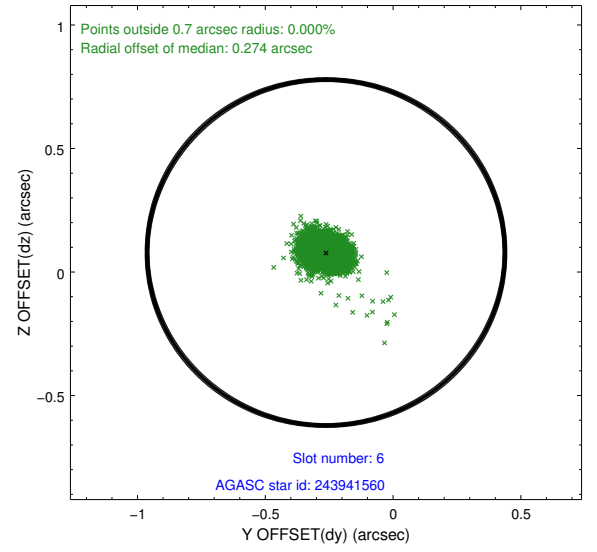
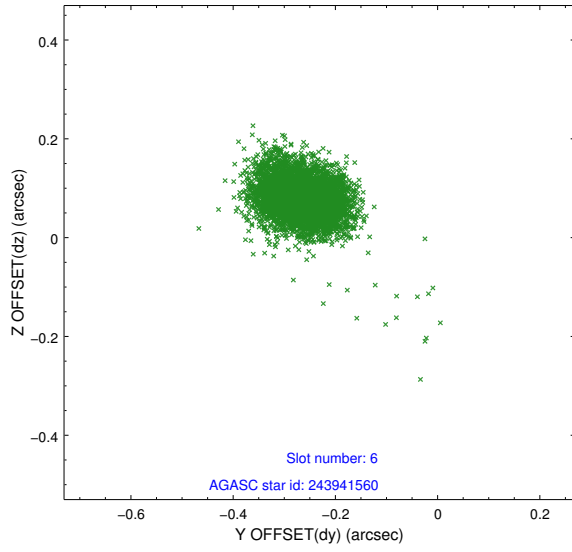
2.4.2 Slot 4



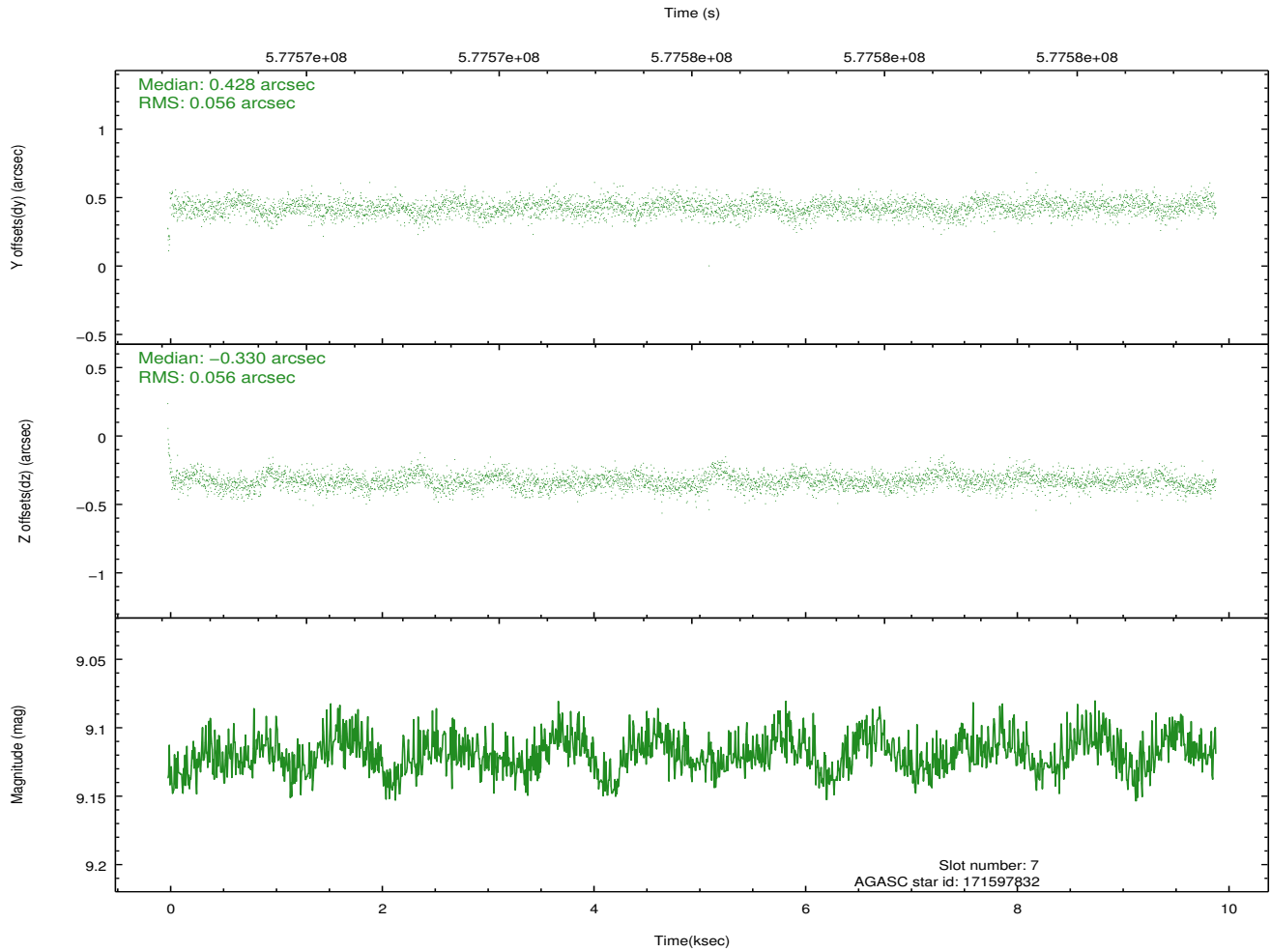
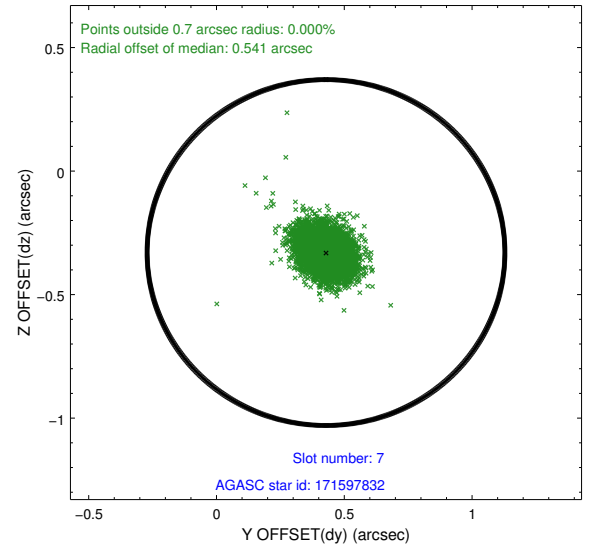
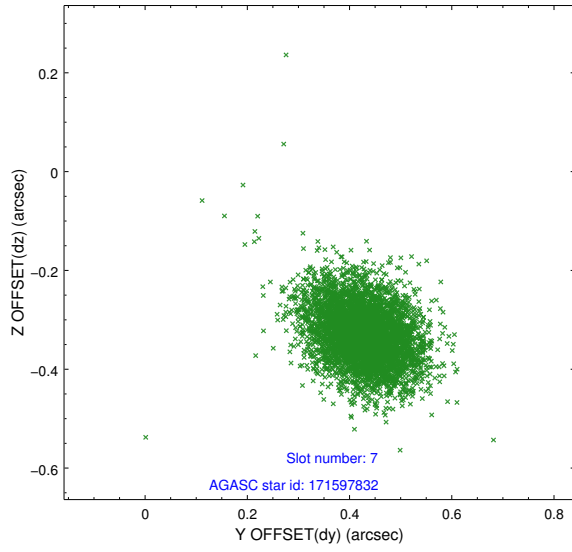
2.4.3 Slot 5



2.4.4 Slot 6

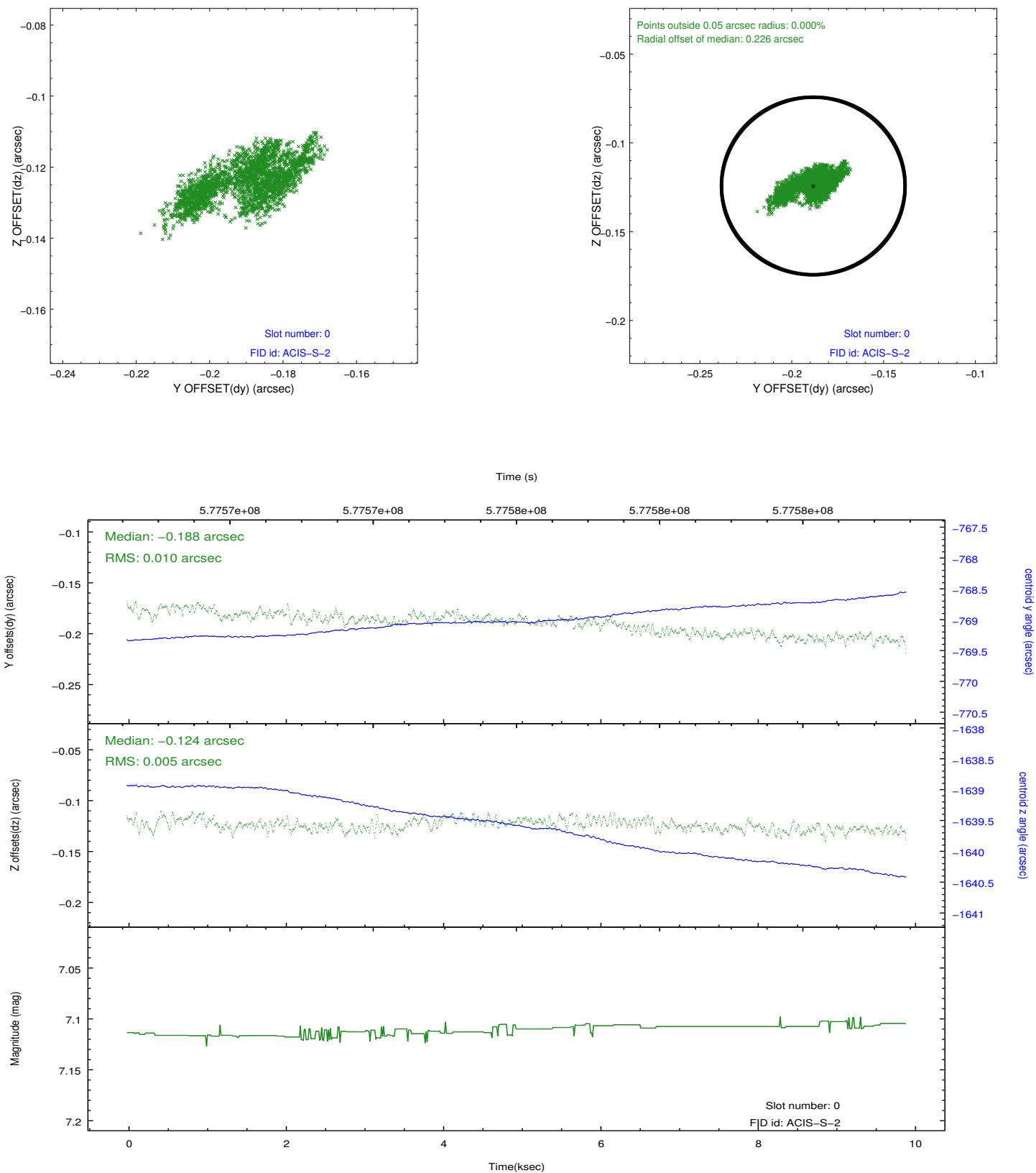


2.4.5 Slot 7

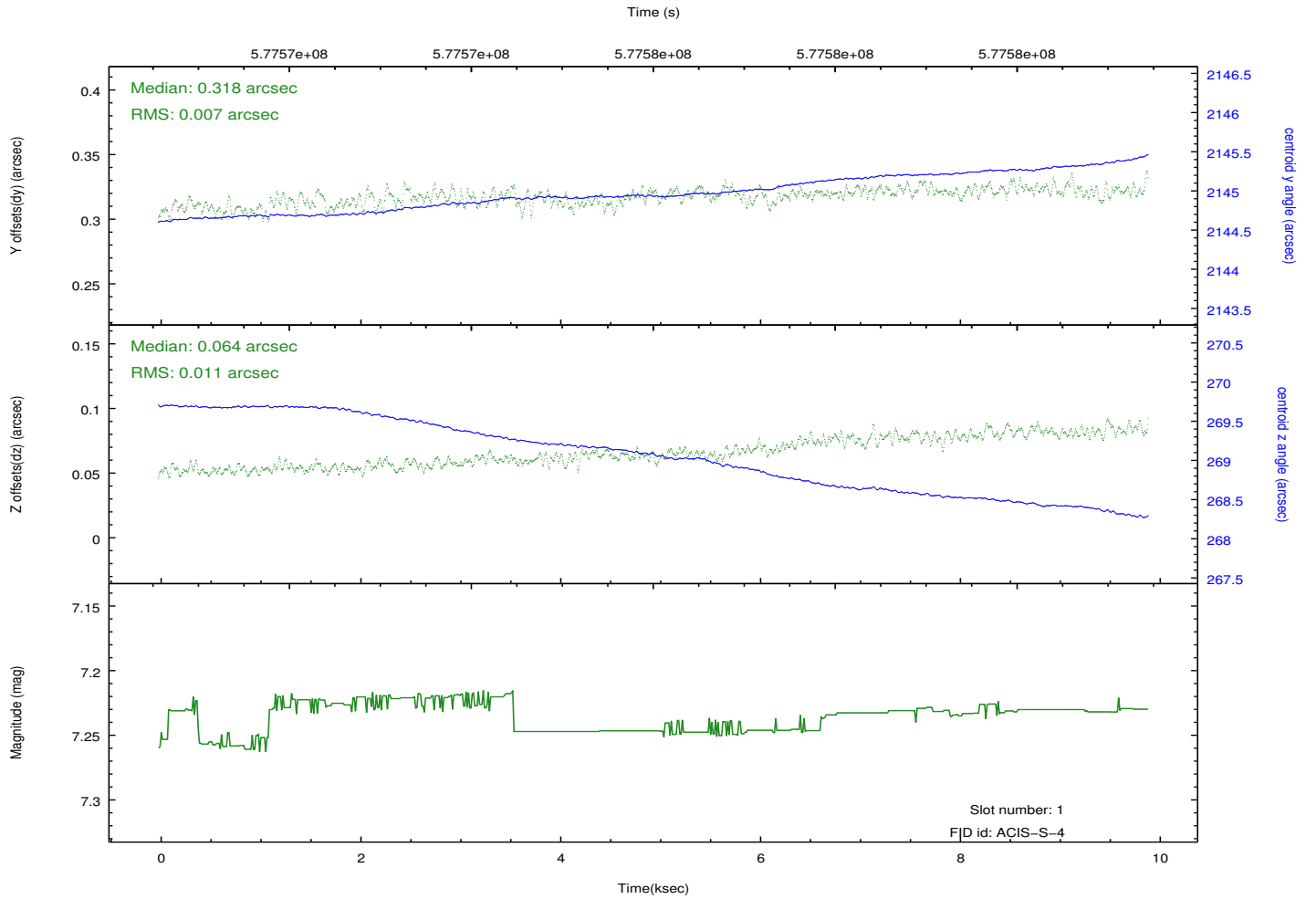
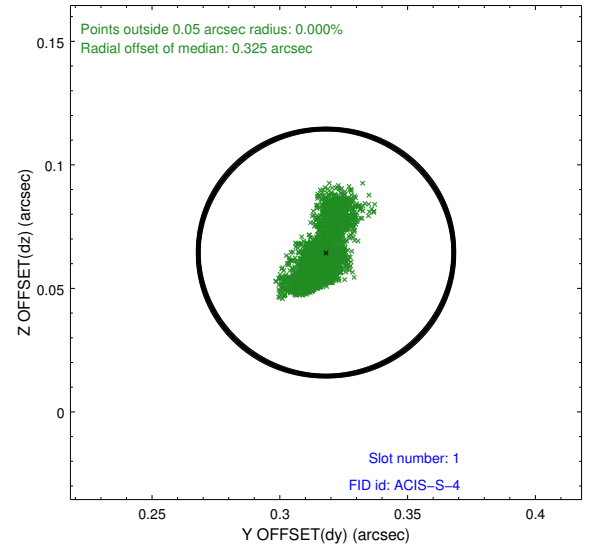
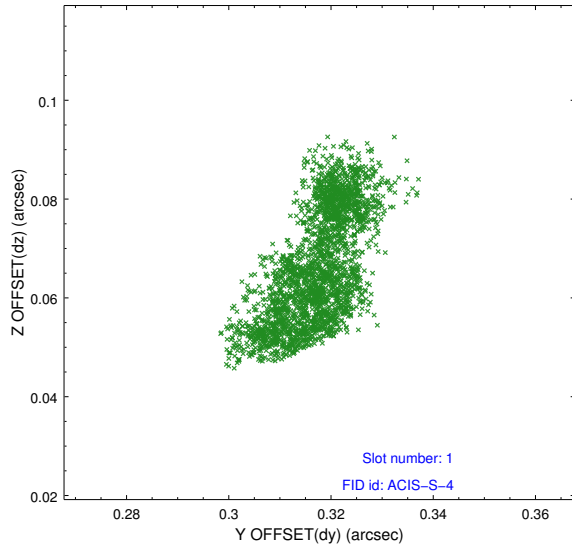


2.5 FID Slots

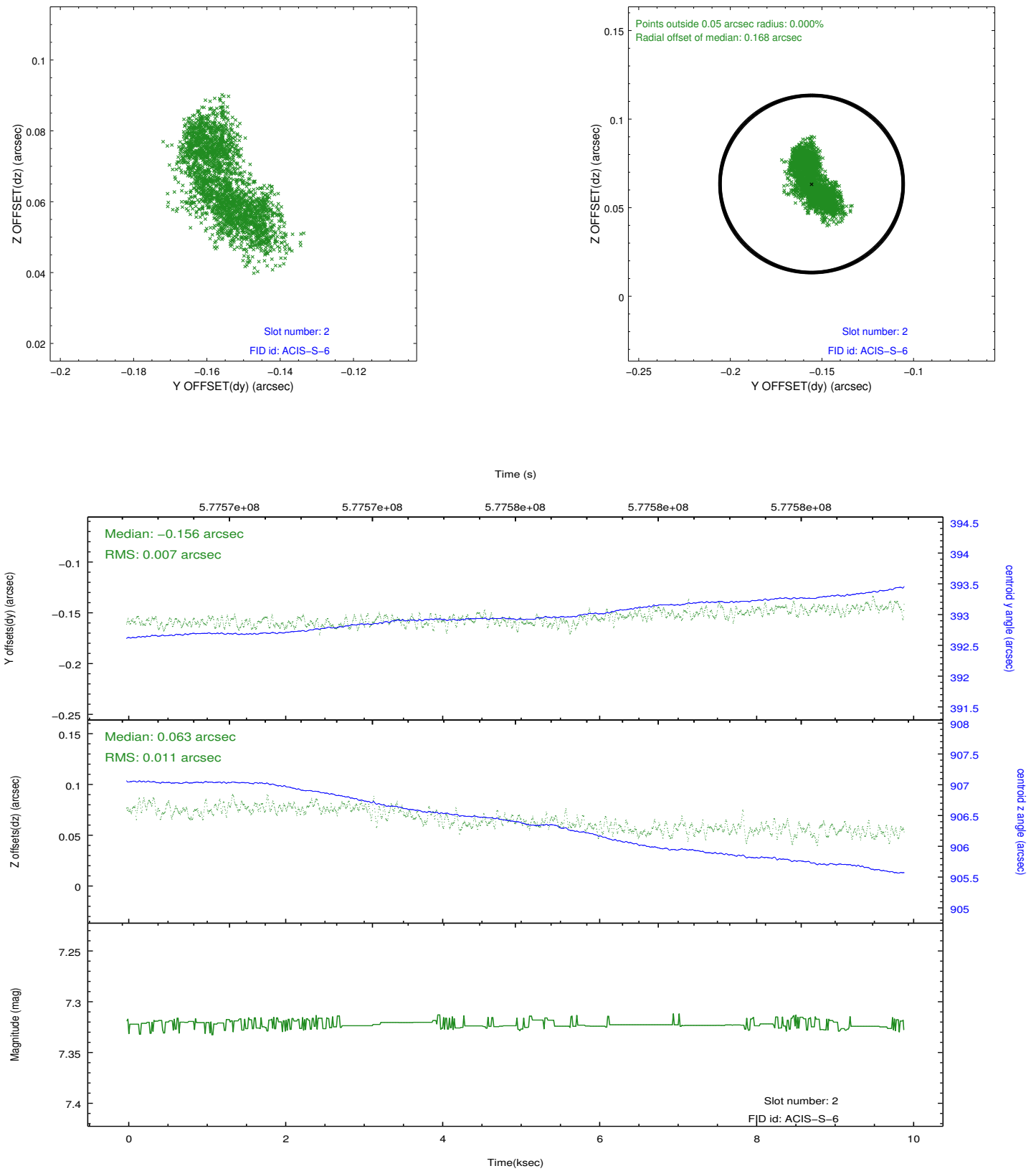
2.5.1 Slot 0



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)	2016.04.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.7290588126183

A.2 Comments

Joint proposal with HST.

Observation coordinated with HST.

Window preference met.