

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 2848 - L2 Version 3
Chandra X-Ray Center

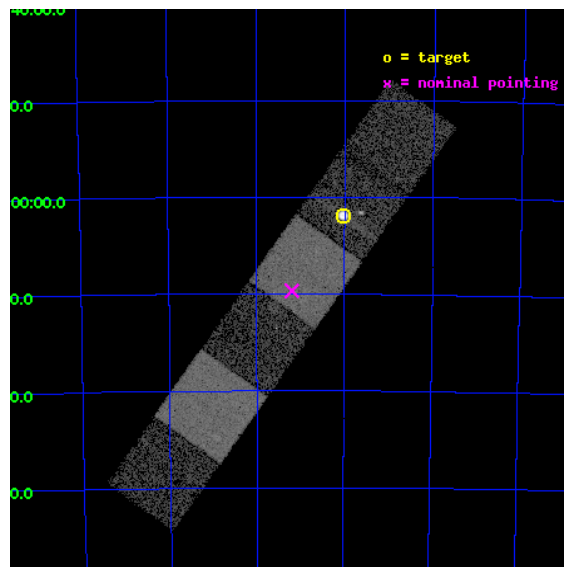
L2 Processing Date : Sep 28 2012

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

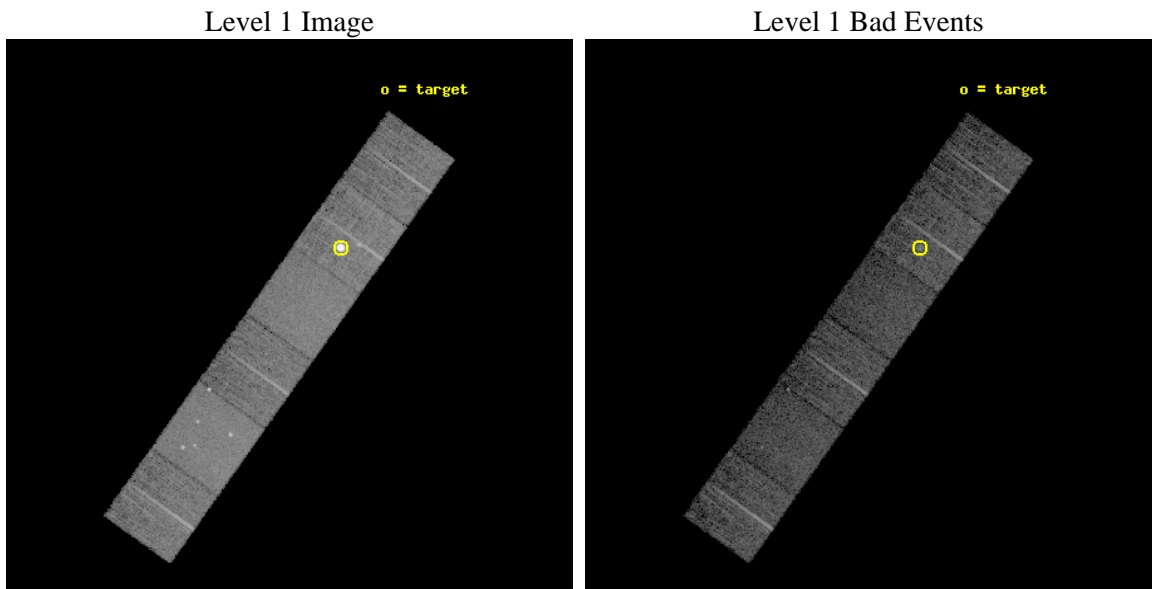
seq_num	590237	Sequence number
obs_id	2848	Observation id
title	AO3A ACIS-S CALIBRATION OBSERVATIONS OF E0102-72	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	E0102-72.3 [Chip S4, T=120, Offsets=-9,0,0]	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA [deg]
dec_targ	-72.032028	Observer's specified target Dec [deg]
ra_nom	16.298391622133	Nominal RA [deg]
dec_nom	-72.161093108853	Nominal Dec [deg]
roll_nom	305.38773990534	Nominal Roll [deg]
revision	3	Processing version of data
ontime	7558.4000070244	Sum of GTIs [s]
livetime	7462.6909950134	Livetime [s]
ontime4	7558.4000070244	Sum of GTIs [s]
ontime5	7558.4000070244	Sum of GTIs [s]
ontime6	7558.4000070244	Sum of GTIs [s]
ontime7	7558.4000070244	Sum of GTIs [s]
ontime8	7558.4000070244	Sum of GTIs [s]
ontime9	7558.4000070244	Sum of GTIs [s]
l2events	102990	Number of level 2 events



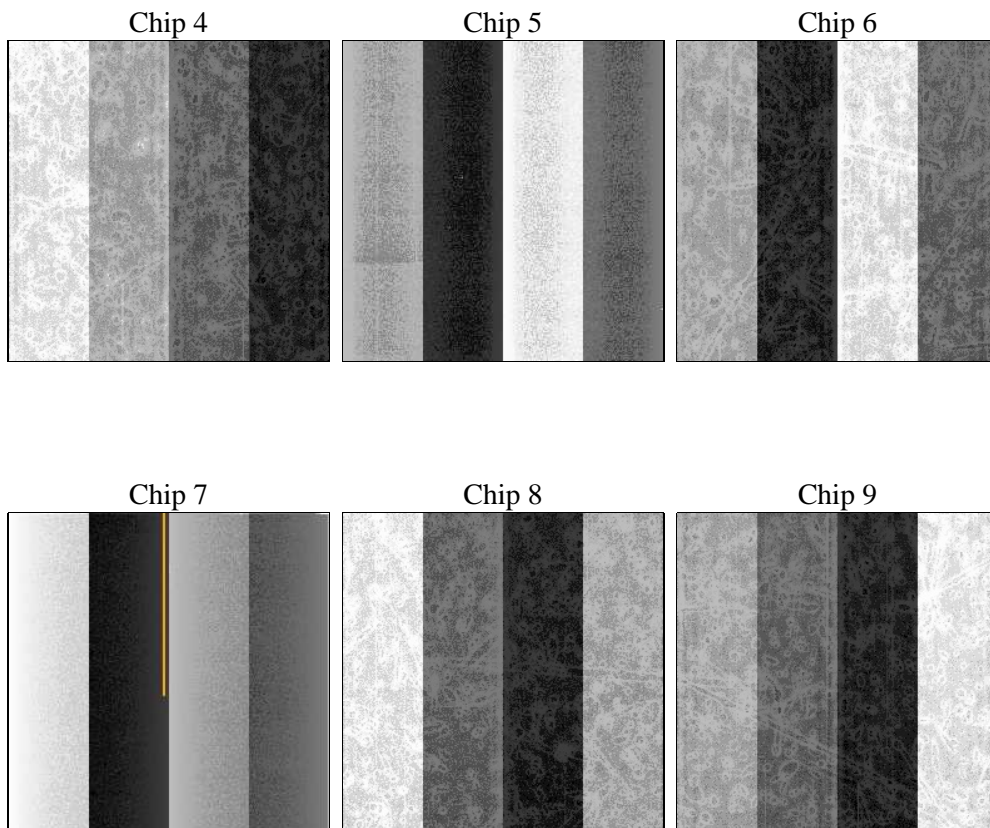
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	7800.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	7558.4000070244	Sum of GTIs [s]
caldsver	4.5.2	 	ontime4	7558.4000070244	Sum of GTIs [s]
date	2012-09-28T22:20:23	Date and time of file creation	ontime5	7558.4000070244	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	7558.4000070244	Sum of GTIs [s]
			ontime7	7558.4000070244	Sum of GTIs [s]
			ontime8	7558.4000070244	Sum of GTIs [s]
			ontime9	7558.4000070244	Sum of GTIs [s]
			l1events	374969	Number of level 1 events

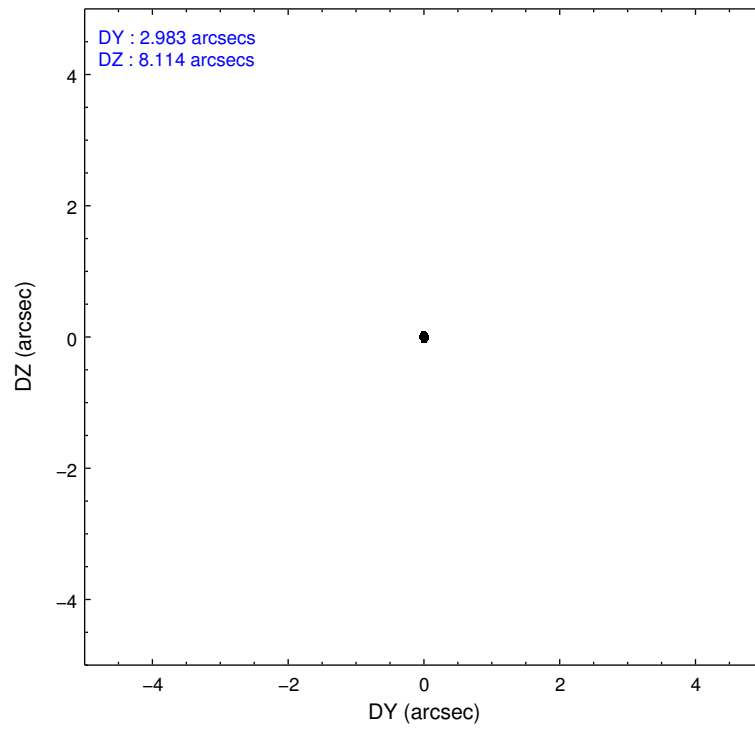
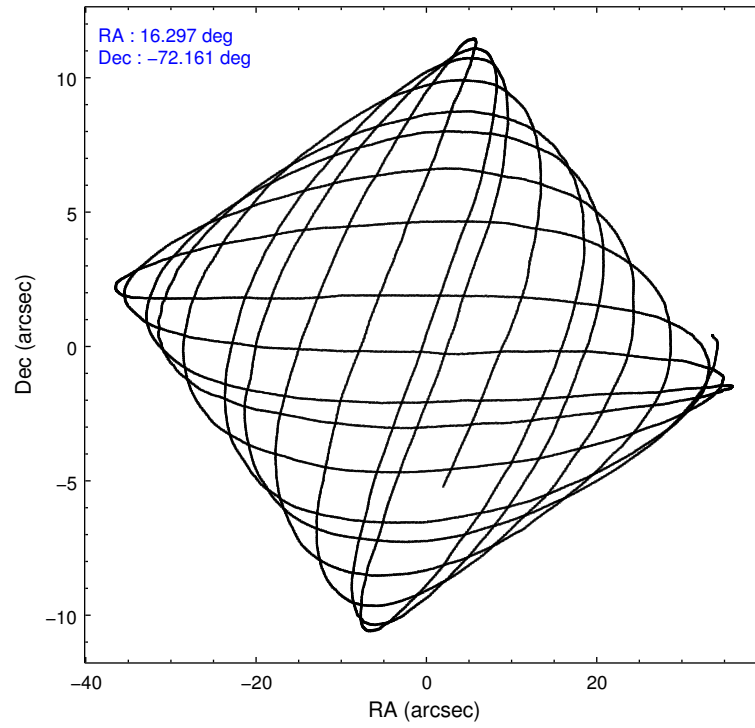
2.1.4 Events

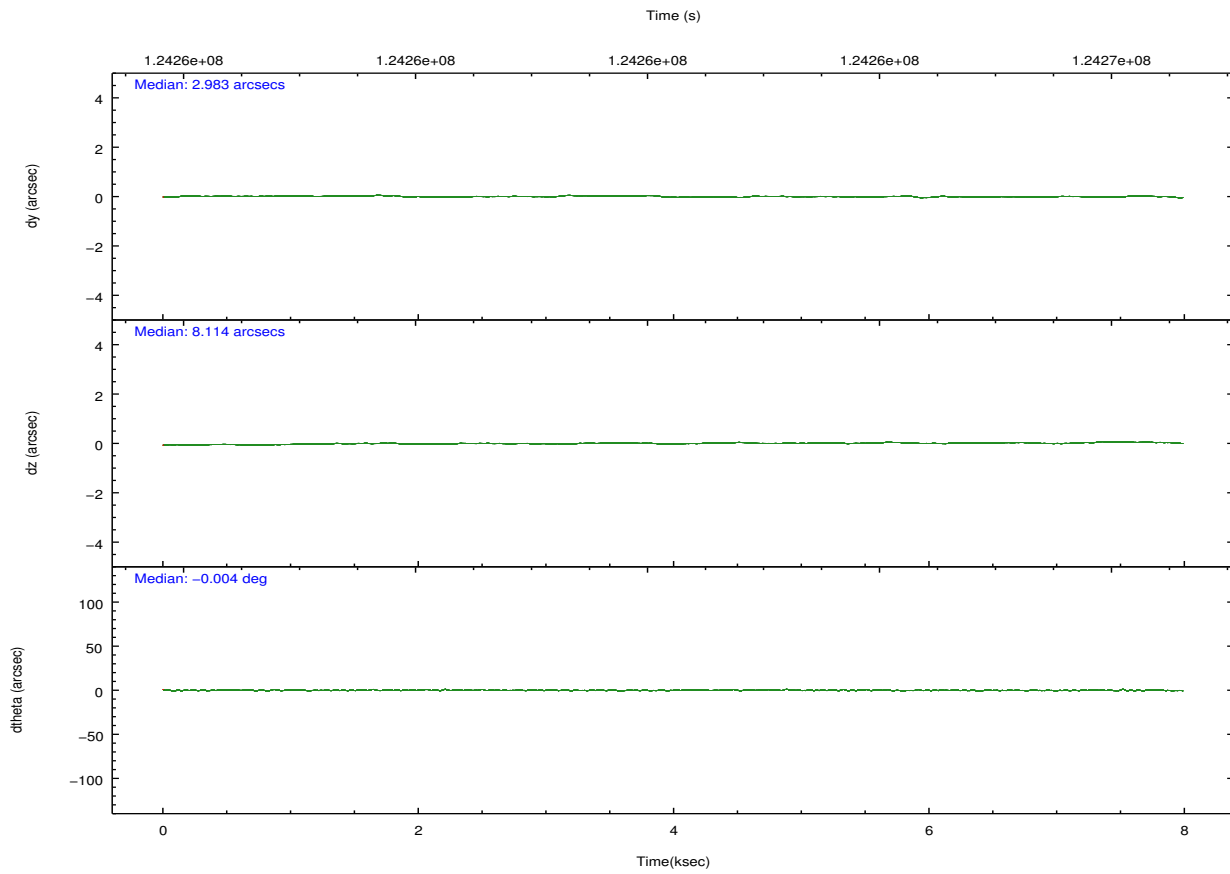
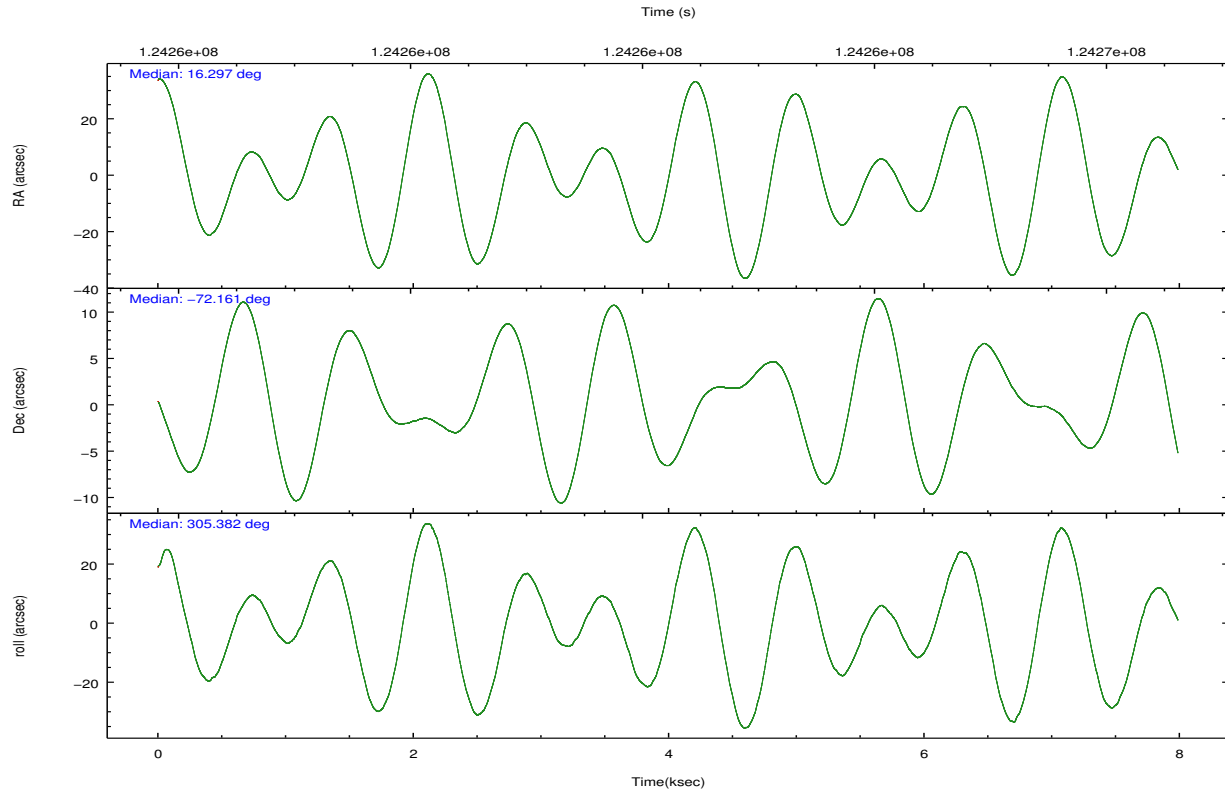
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	52520	70708	48577	64039	90342	48783	grade 0 events	2462	4884	2626	2937	28185	2500
rejected events	46684	37826	42698	36777	50707	42906		4%	6%	5%	4%	31%	5%
rejected %	88%	53%	87%	57%	56%	87%	grade 1 events	26	242	34	62	216	23
								0%	0%	0%	0%	0%	0%
							grade 2 events	1343	9190	1130	5619	4499	1192
								2%	12%	2%	8%	4%	2%
							grade 3 events	547	1326	530	2517	1791	568
								1%	1%	1%	3%	1%	1%
							grade 4 events	511	1178	541	2505	1745	526
								0%	1%	1%	3%	1%	1%
							grade 5 events	1750	5211	2064	5914	2731	2178
								3%	7%	4%	9%	3%	4%
							grade 6 events	981	16331	1056	13703	3446	1097
								1%	23%	2%	21%	3%	2%
							grade 7 events	44900	32346	40596	30782	47729	40699
								85%	45%	83%	48%	52%	83%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	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	16.217020	16.29839162213285	Subarray requested	NONE	NONE
[deg] Pointing Dec	-72.150017	-72.16109310885314	Alternating exposures requested	N	N
[deg] Pointing Roll	305.153672	305.3877399053378	[s] Primary exposure time	0.000000	3.2
[s] Window start time (MET)	123552064.184000	123552064.184000			
[s] Window stop time (MET)	126144064.184000	126144064.184000			
[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)	124258414.184000	124258038.18278			
Observation start date	2001-12-09T04:12:30	2001-12-09T04:07:18			
[s] Observation end time (MET)	124266214.184000	124266347.85812			
Observation end date	2001-12-09T06:22:30	2001-12-09T06:25:47			
Read mode	TIMED	TIMED			

2.3 Aspect



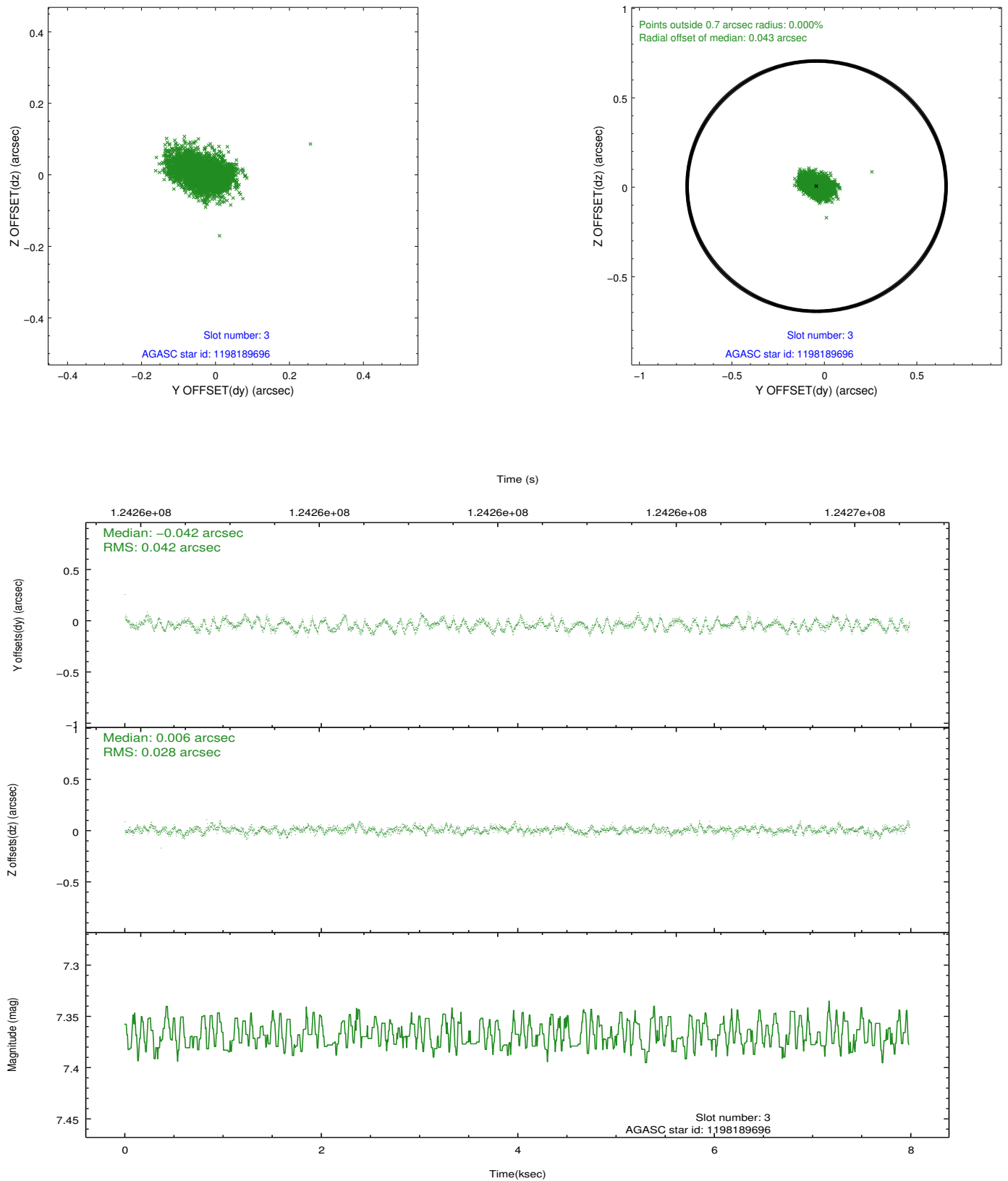


Slot Statistics

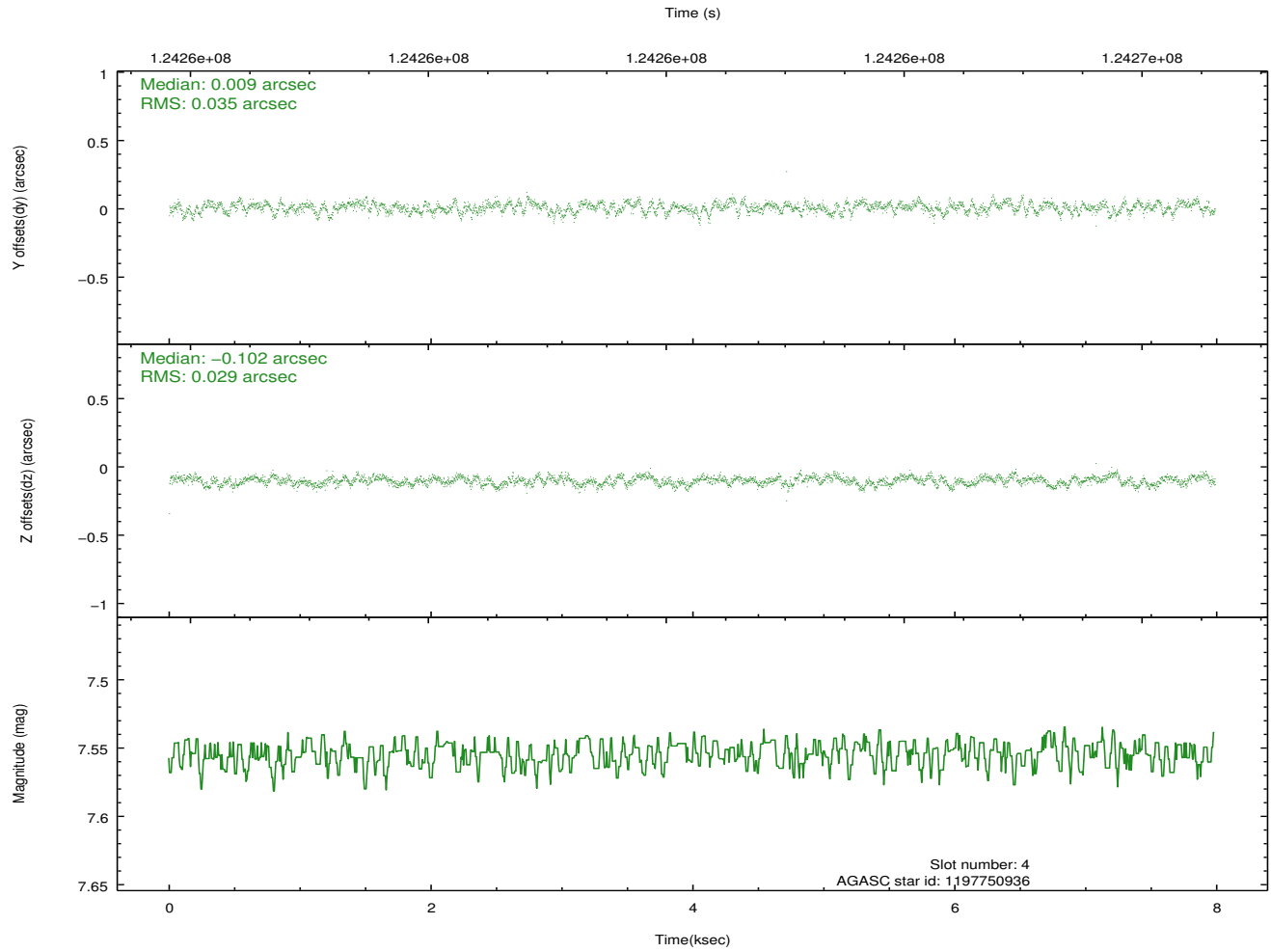
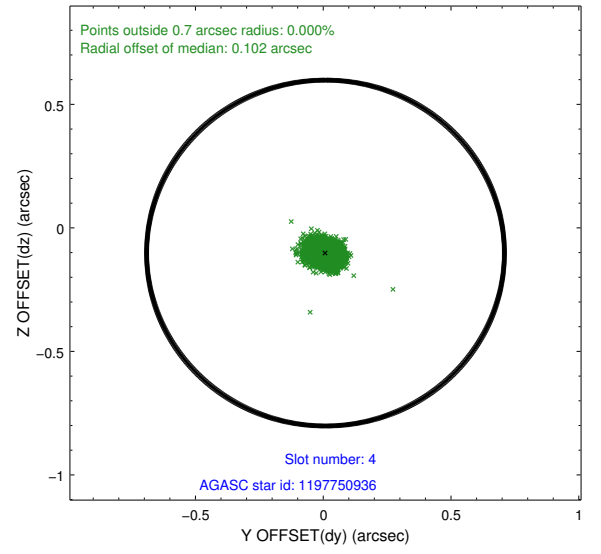
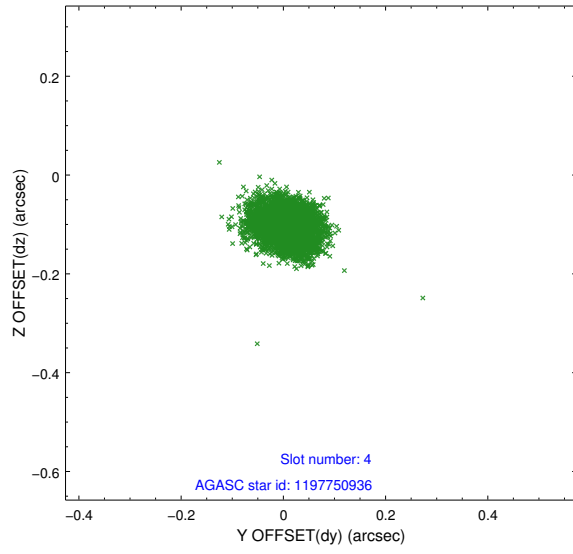
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	1949	-0.001	-0.001	0.007	0.011	0.000000	0.000000	-755.64	-1729.25
1	FID	ACIS-S-4	7.20	1949	-0.040	0.001	0.005	0.009	0.000000	0.000000	2157.29	178.49
2	FID	ACIS-S-5	7.24	1949	0.011	0.009	0.006	0.011	0.000000	0.000000	-1807.55	172.99
3	GUIDE	1198189696	7.37	3897	-0.042	0.006	0.054	0.086	15.223750	-72.697522	1007.11	-2008.38
4	GUIDE	1197750936	7.55	3896	0.009	-0.102	0.048	0.077	15.387940	-71.549550	-2305.15	468.71
5	GUIDE	1197884536	8.50	3896	0.071	0.019	0.064	0.104	17.160729	-71.835289	-309.93	1514.56
6	GUIDE	1198283128	8.00	3897	-0.080	0.055	0.046	0.073	17.272580	-72.642428	2110.58	-97.97
7	GUIDE	1197878768	9.63	3889	0.038	0.024	0.118	0.194	16.656786	-71.304581	-2193.95	2167.18

2.4 Star Slots

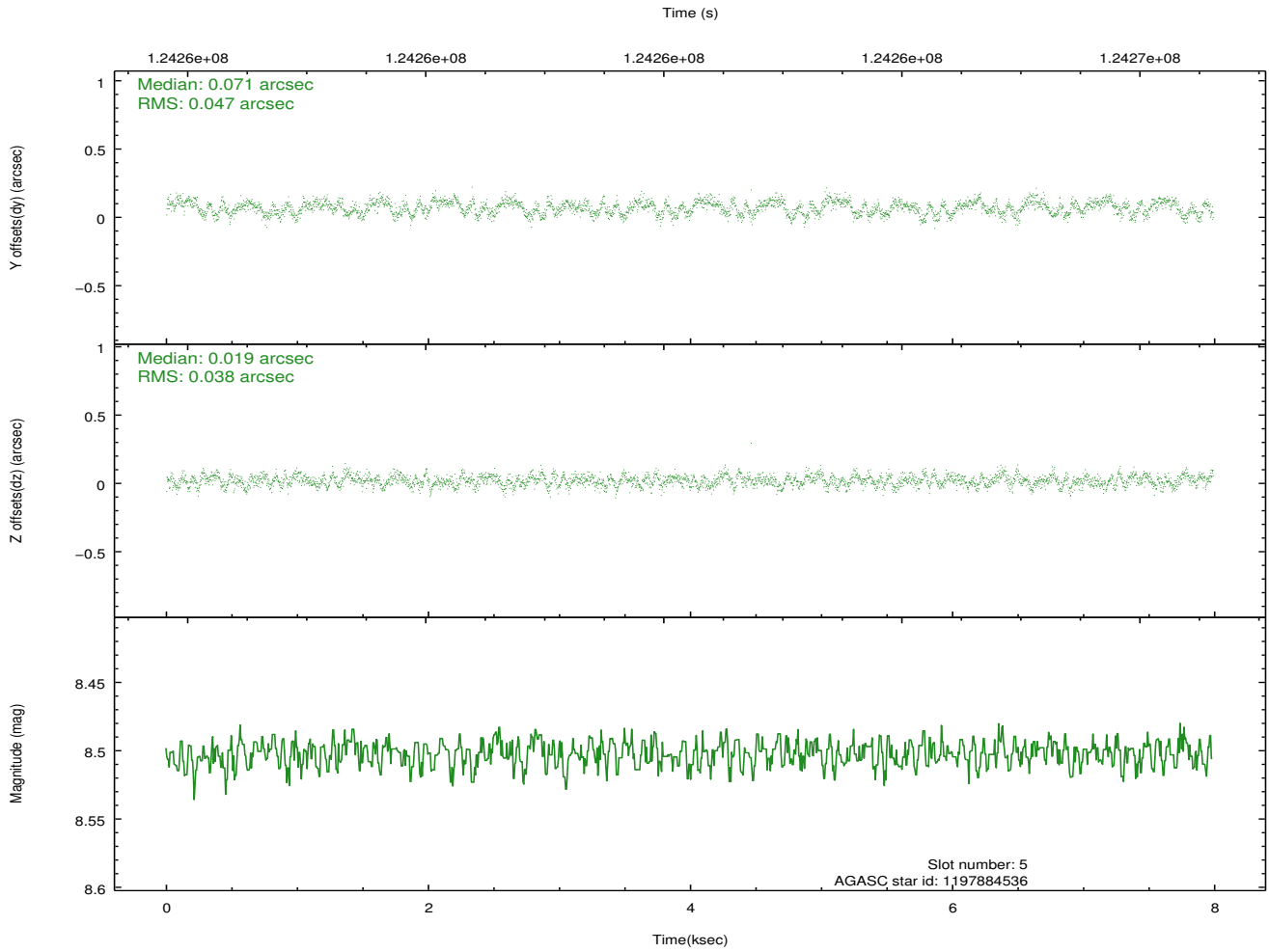
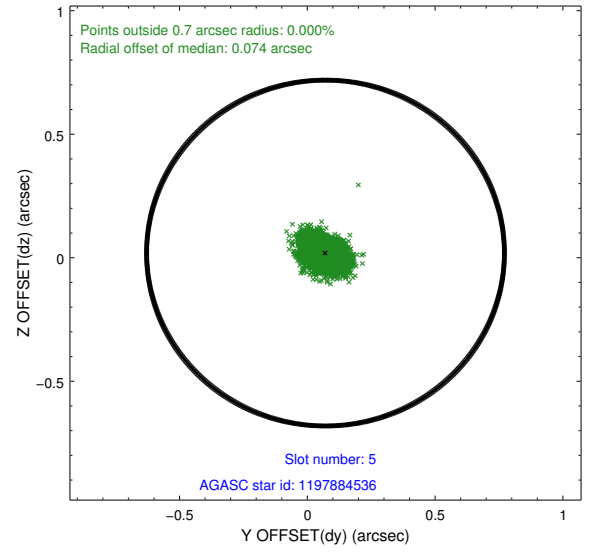
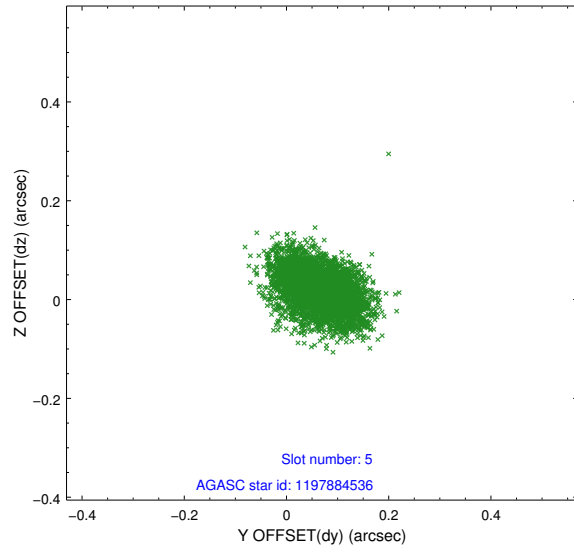
2.4.1 Slot 3



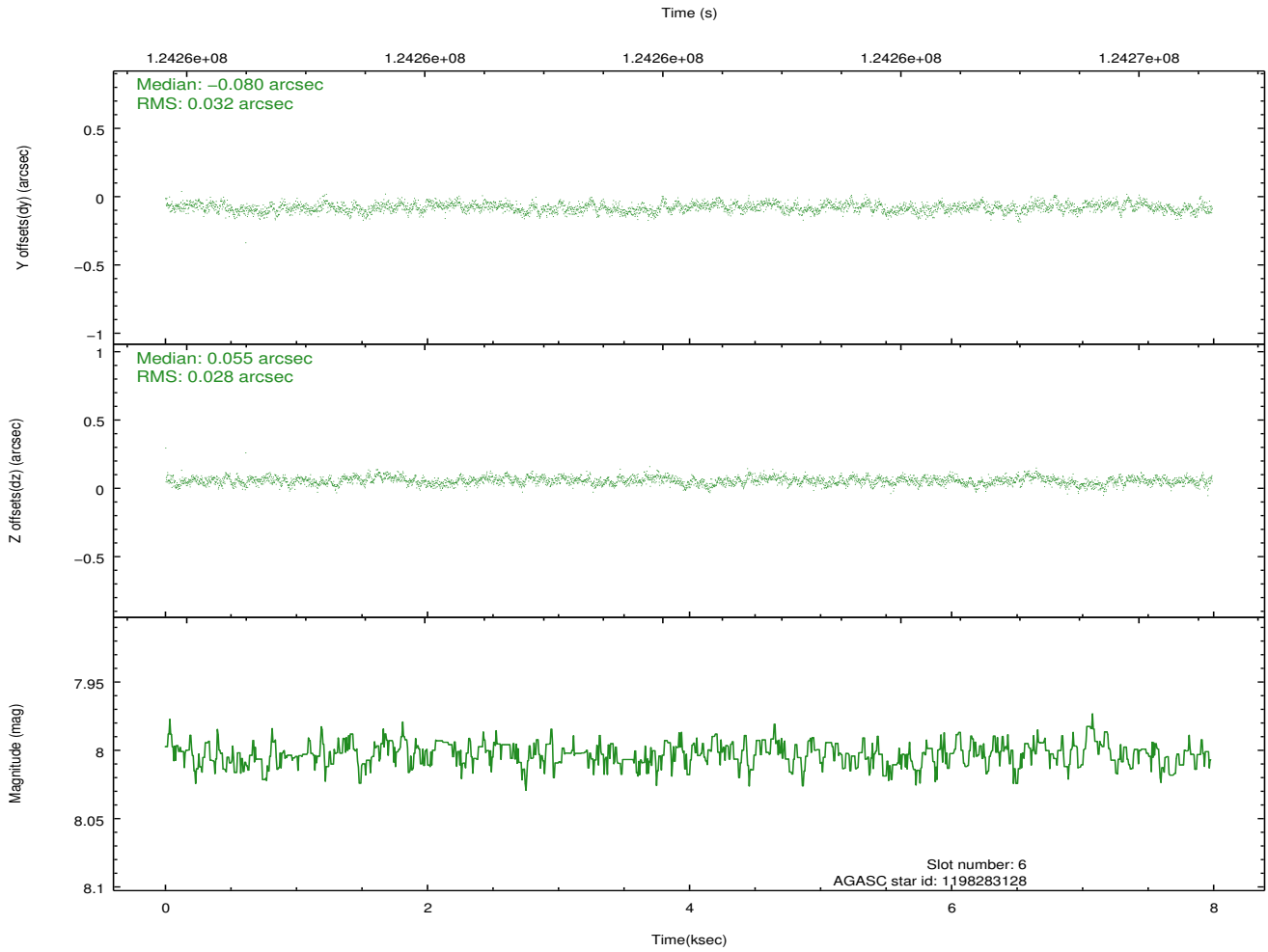
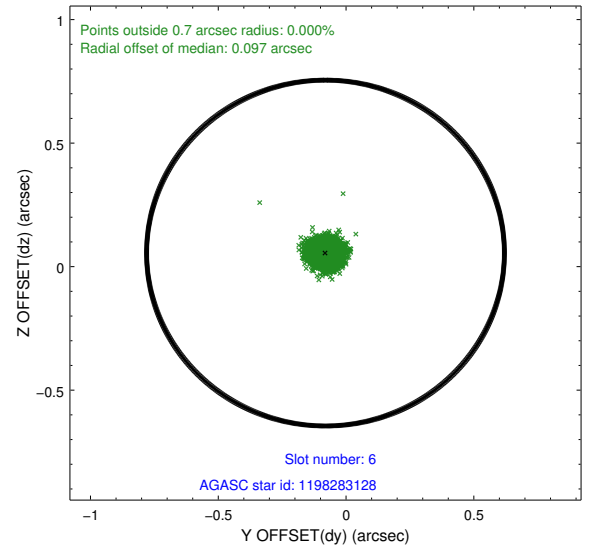
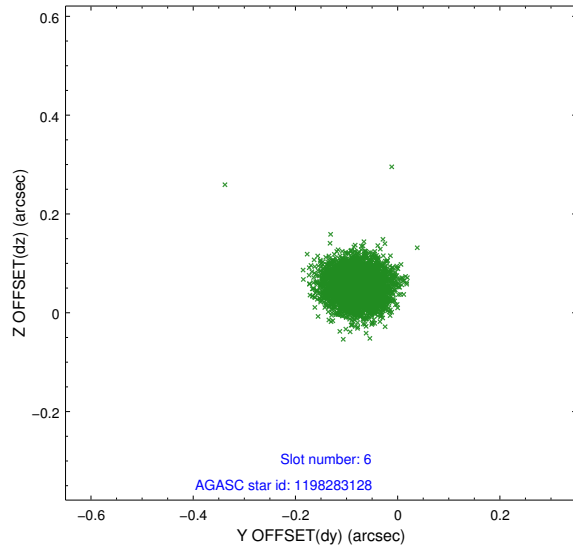
2.4.2 Slot 4



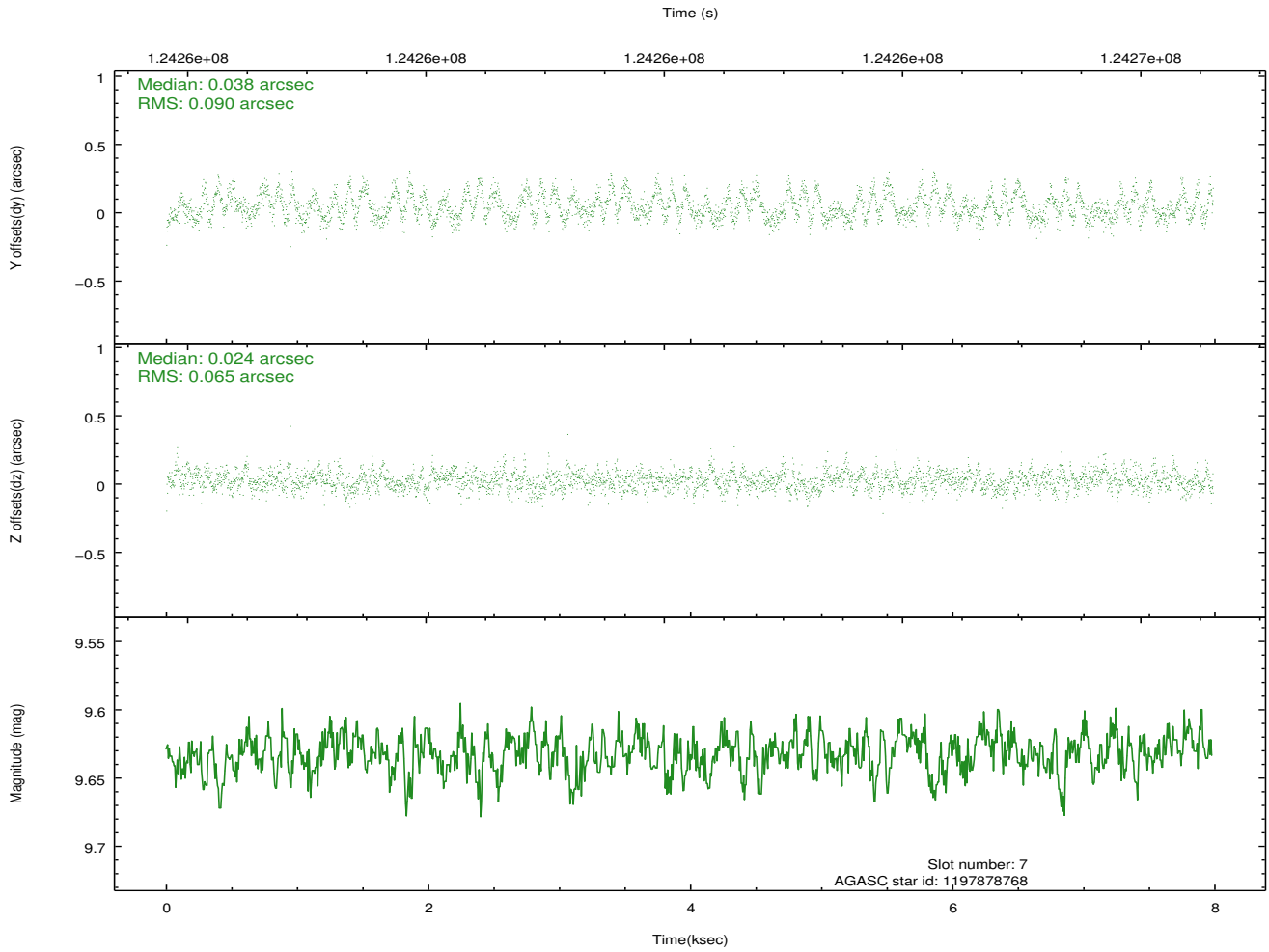
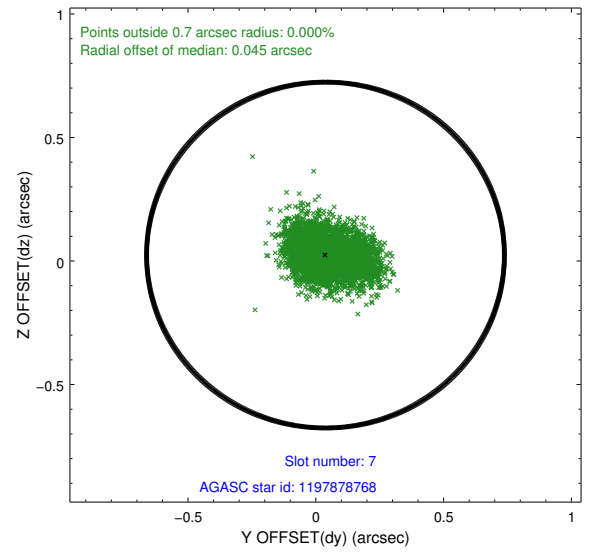
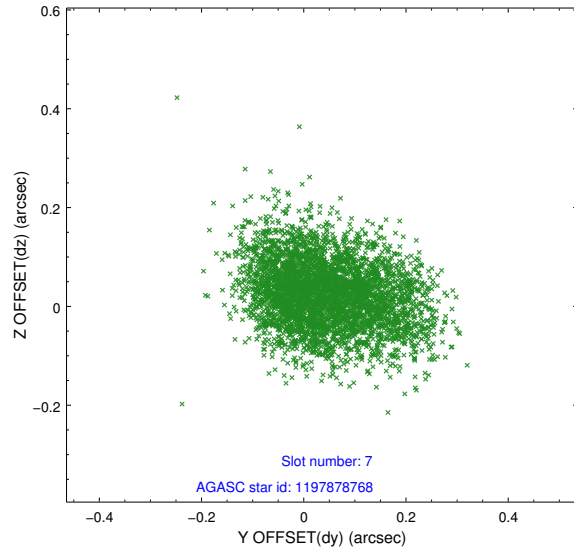
2.4.3 Slot 5



2.4.4 Slot 6

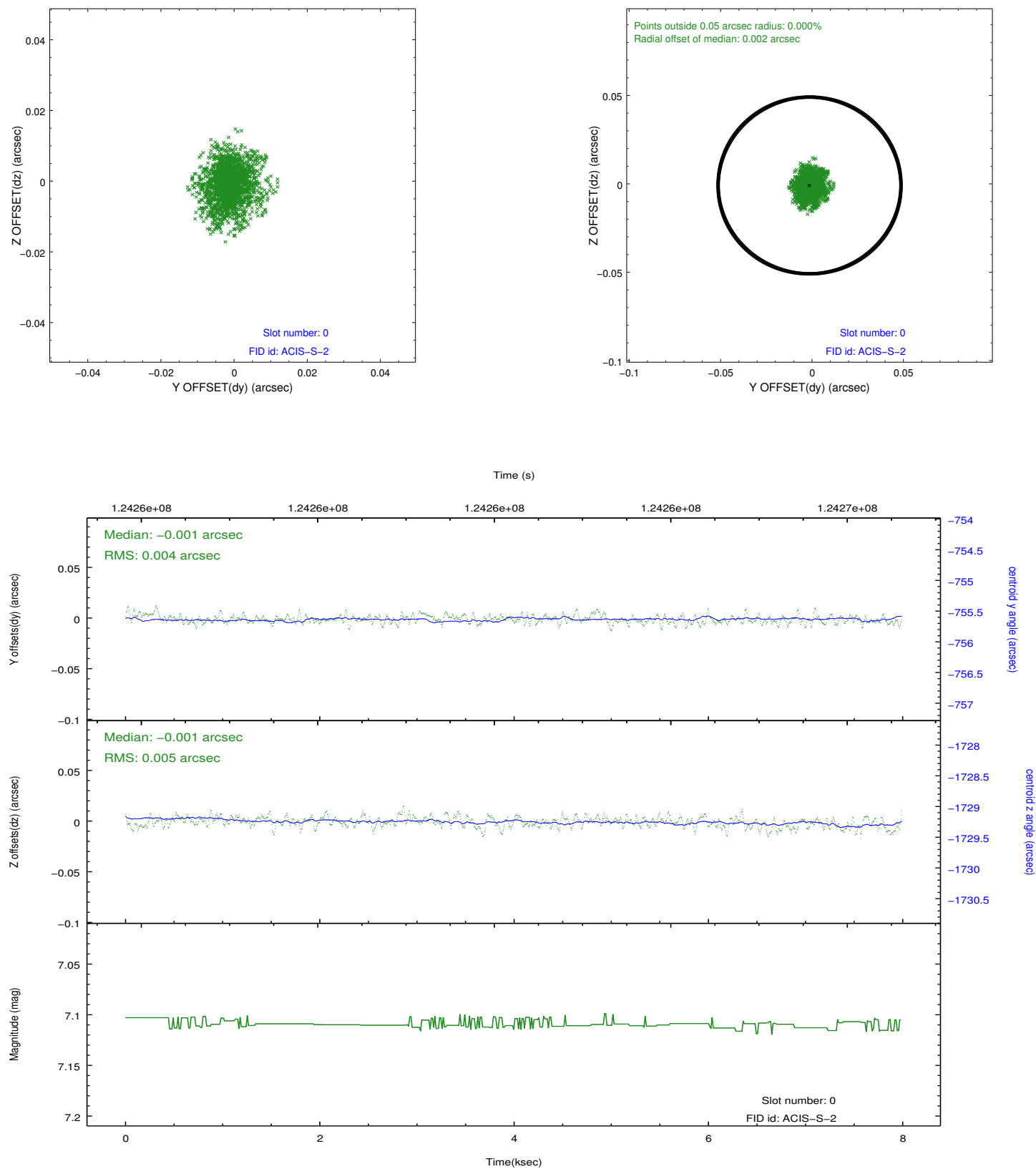


2.4.5 Slot 7

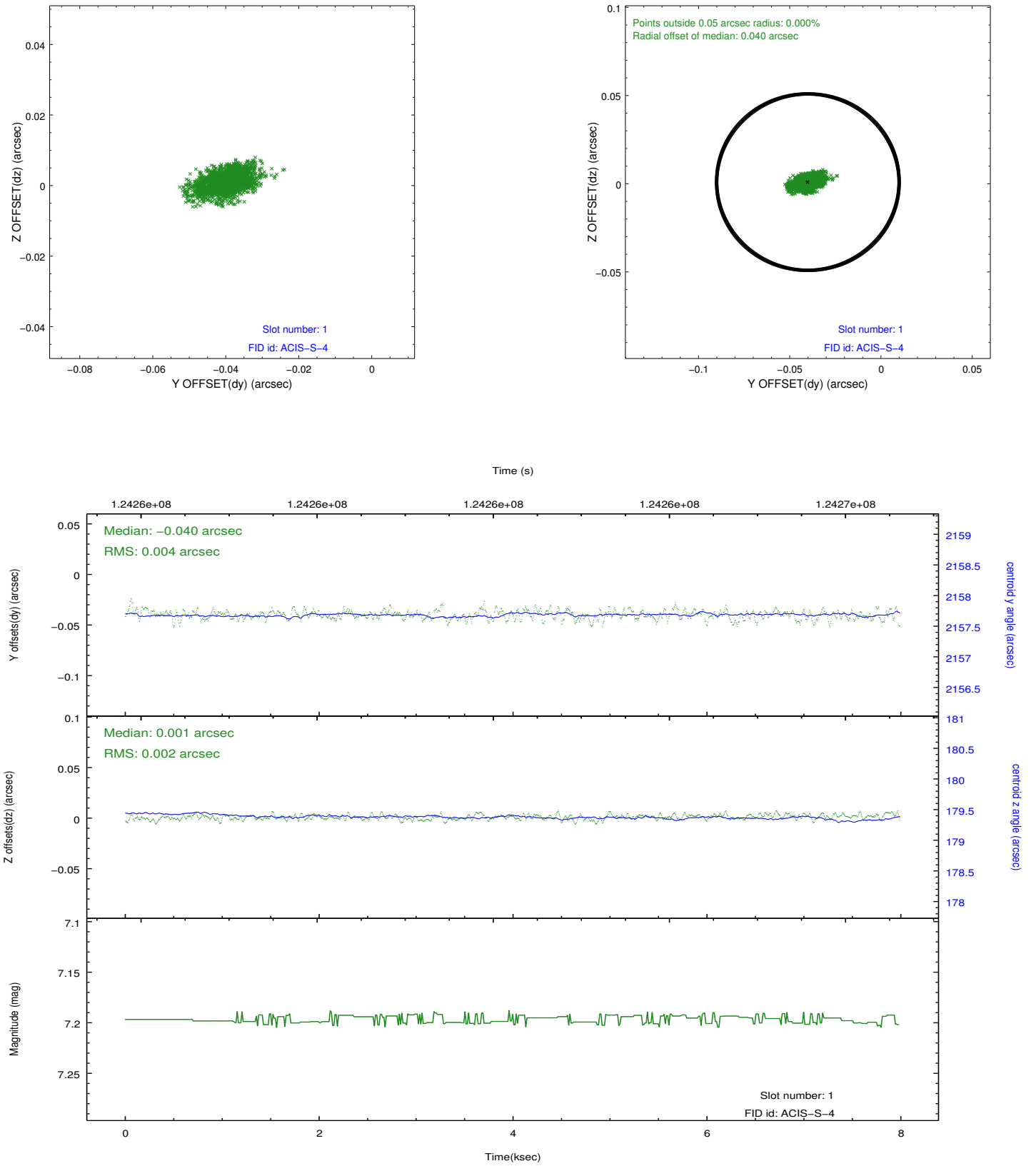


2.5 FID Slots

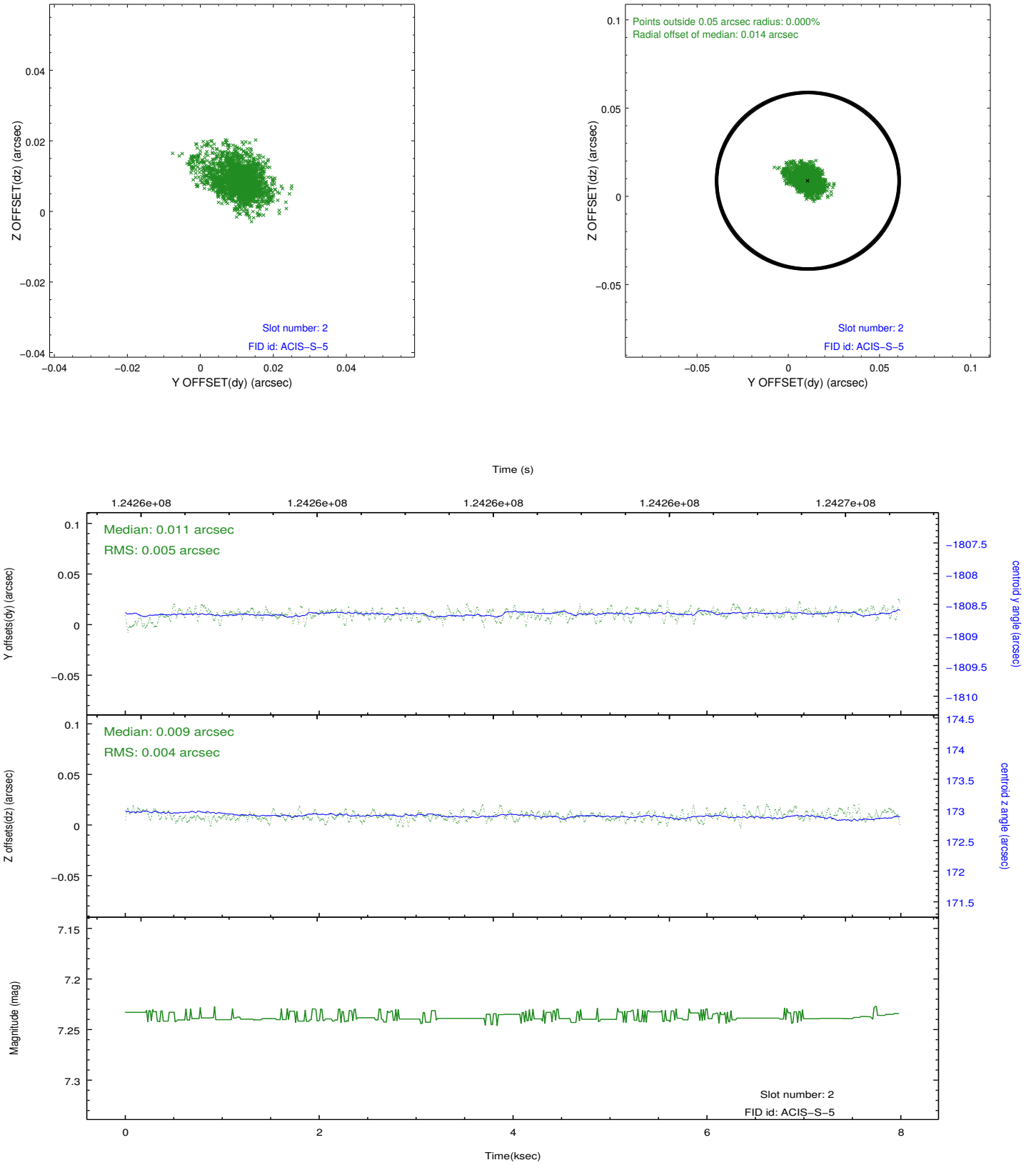
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.09.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.561

A.2 Comments

Window constraint met.