

V&V Reference Report

L2 ASCDS Version : 10.3.3

Observation 17247 - L2 Version 1
Chandra X-Ray Center

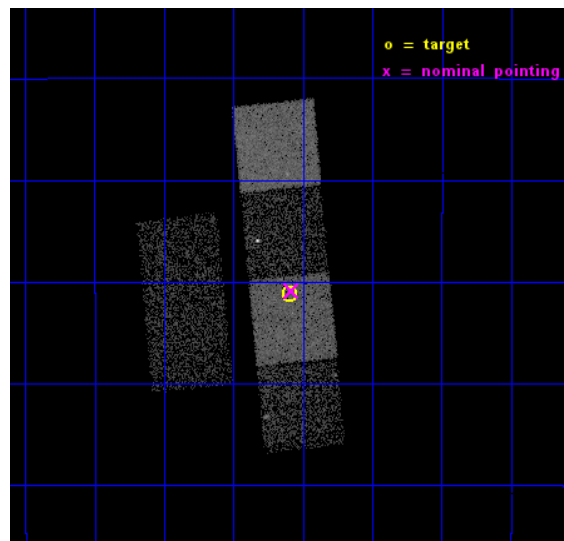
L2 Processing Date : Feb 24 2015

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1 Front

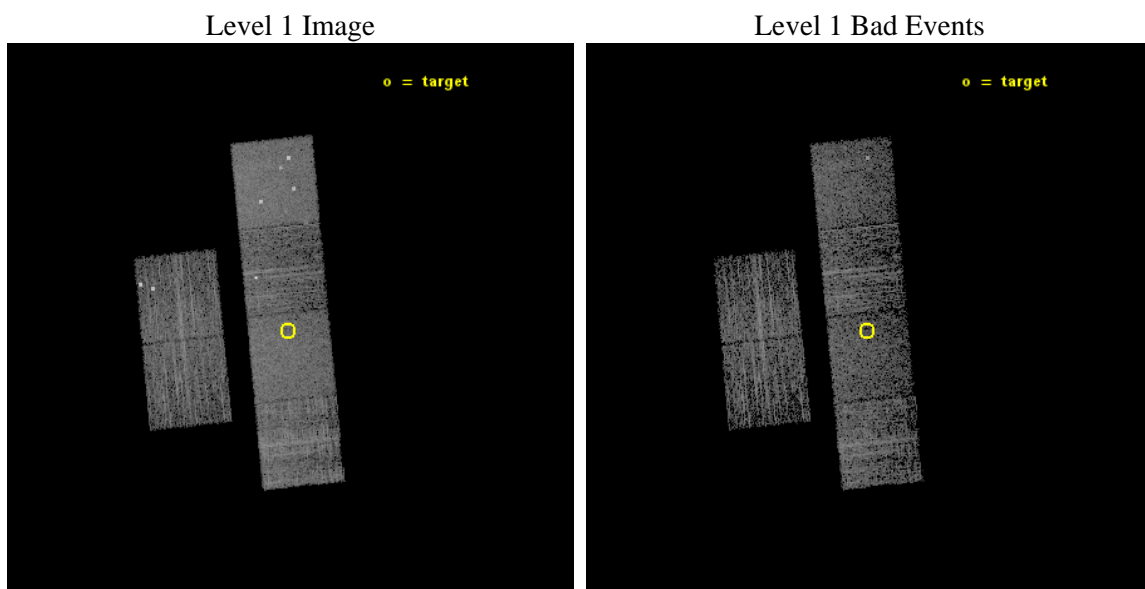
seq_num	901143	Sequence number
obs_id	17247	Observation id
title	Follow-up of Serendipitous NuSTAR Sources in the Galactic Plane	Pr
observer	Dr. John Tomsick	Principal investigator
object	3XMM J172805.7-142109	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	262.02375	Observer's specified target RA [deg]
dec_targ	-14.352583	Observer's specified target Dec [deg]
ra_nom	262.02062992974	Nominal RA [deg]
dec_nom	-14.347974504701	Nominal Dec [deg]
roll_nom	84.26522151868	Nominal Roll [deg]
revision	1	Processing version of data
ontime	4950.4000737667	Sum of GTIs [s]
livetime	4887.7151272596	Livetime [s]
ontime2	4950.4000737667	Sum of GTIs [s]
ontime3	4950.4000737667	Sum of GTIs [s]
ontime5	4950.4000737667	Sum of GTIs [s]
ontime6	4950.4000737667	Sum of GTIs [s]
ontime7	4950.4000737667	Sum of GTIs [s]
ontime8	4950.4000737667	Sum of GTIs [s]
l2events	44687	Number of level 2 events



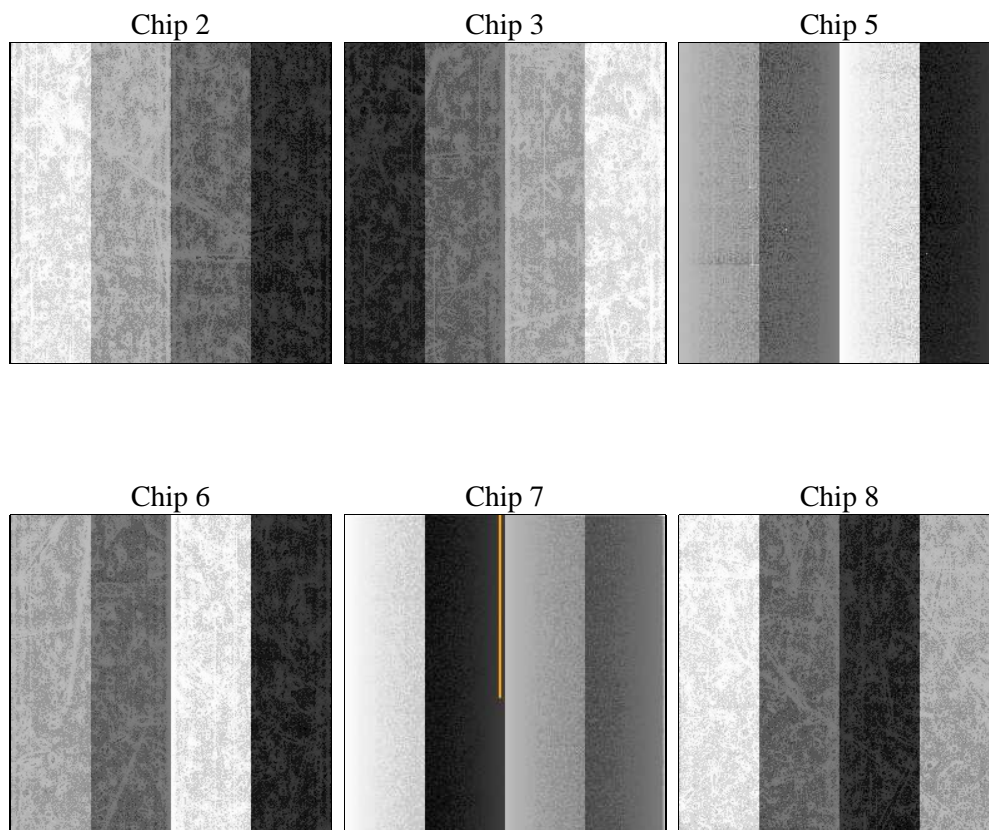
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	4950.4000737667	Sum of GTIs [s]
caldsver	4.6.7	 	ontime2	4950.4000737667	Sum of GTIs [s]
date	2015-02-25T04:22:24	Date and time of file creation	ontime3	4950.4000737667	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	4950.4000737667	Sum of GTIs [s]
			ontime6	4950.4000737667	Sum of GTIs [s]
			ontime7	4950.4000737667	Sum of GTIs [s]
			ontime8	4950.4000737667	Sum of GTIs [s]
			l1events	189656	Number of level 1 events

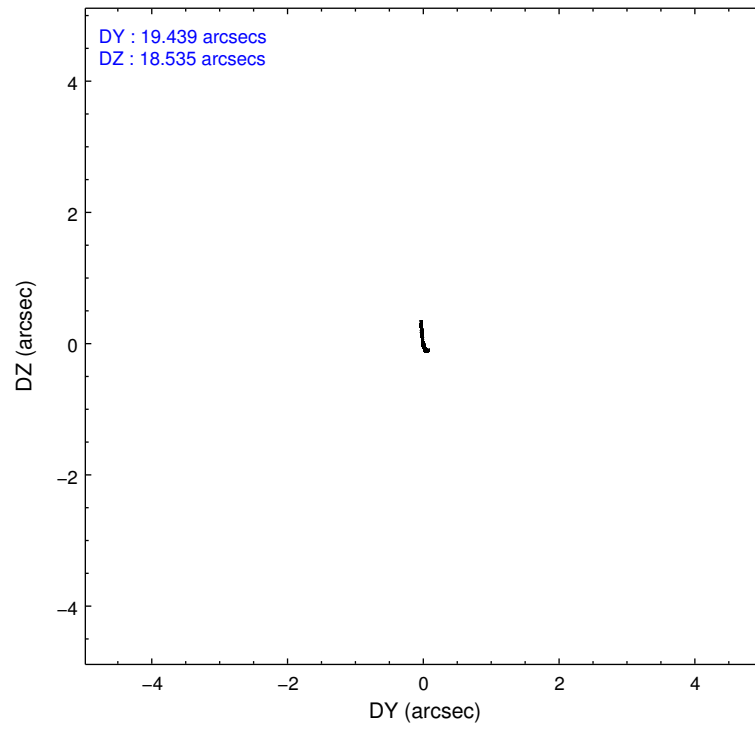
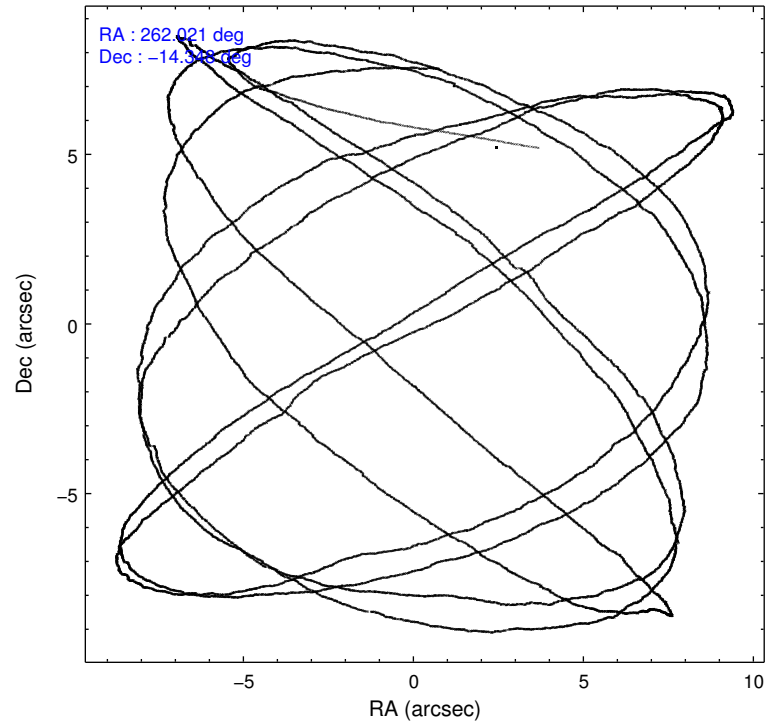
2.1.4 Events

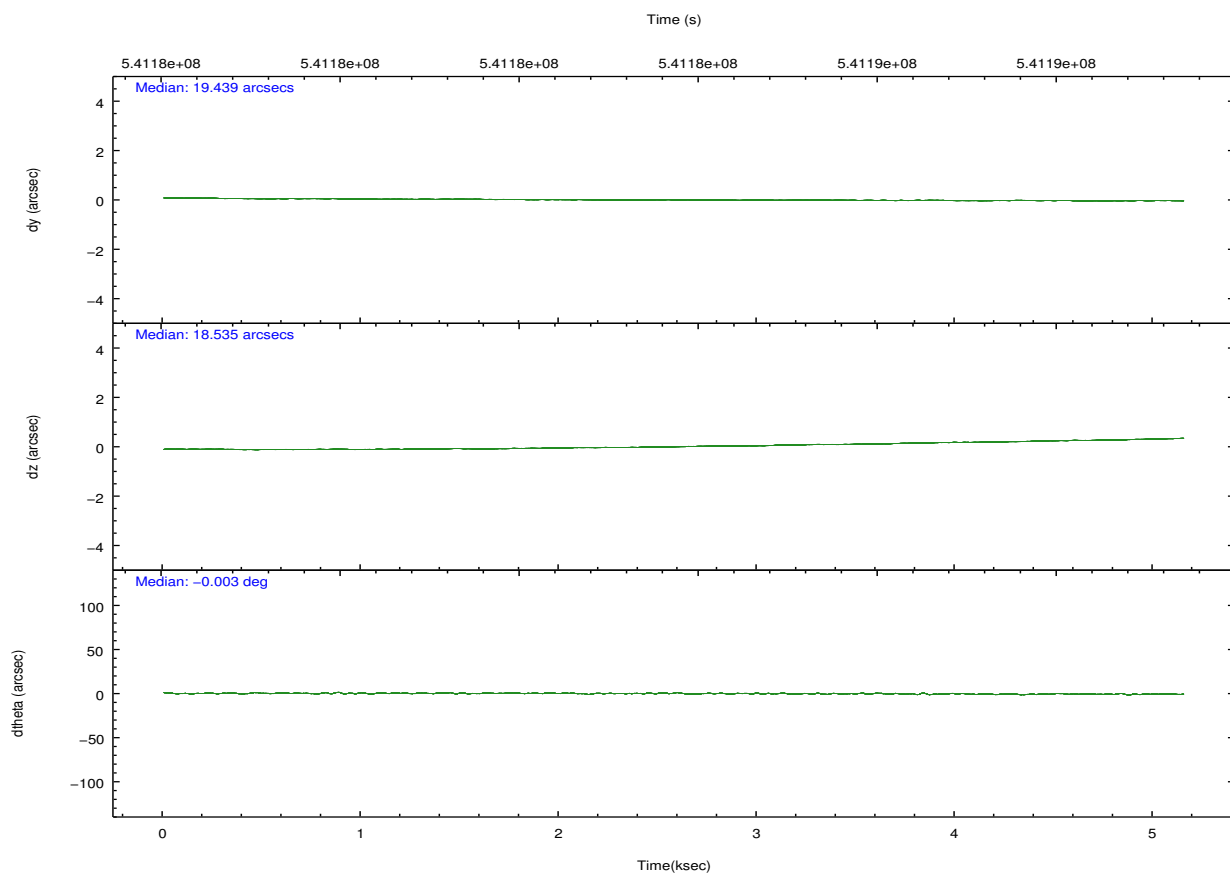
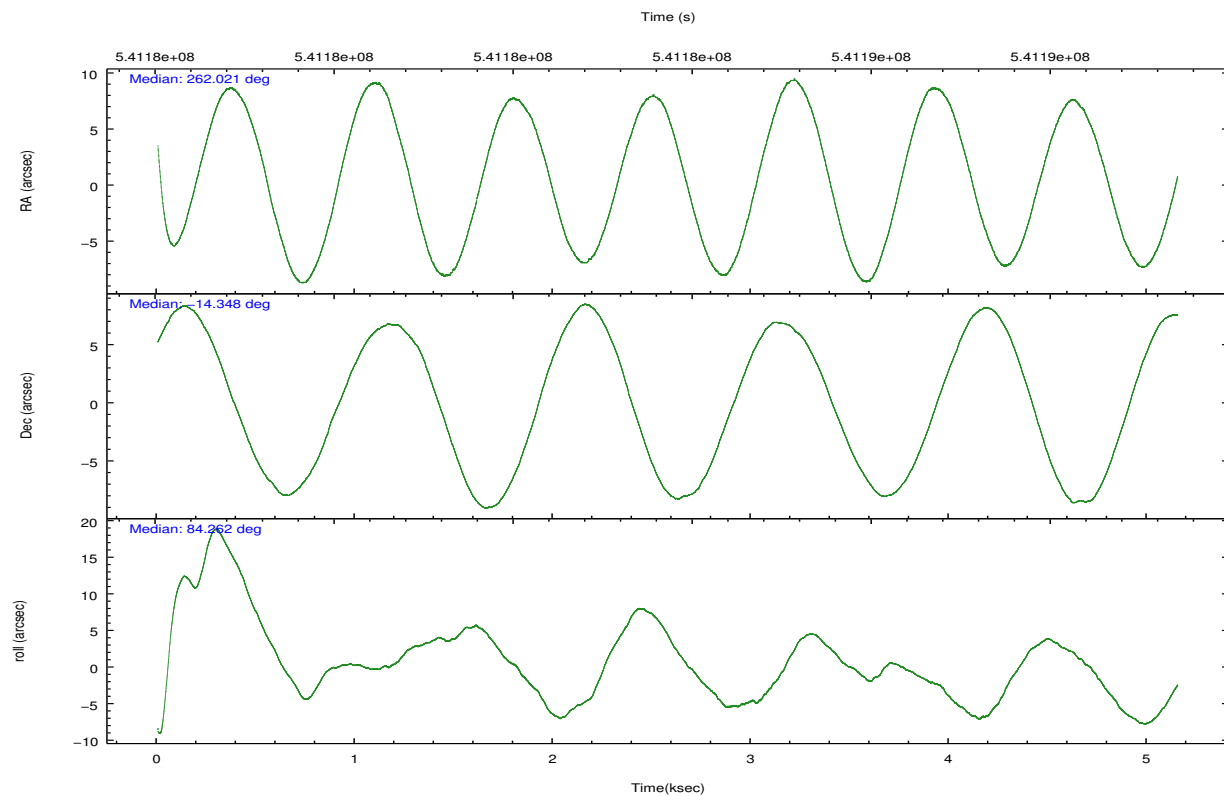
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	28369	23888	43298	26870	33323	33908	grade 0 events	4035	884	4551	2870	1326	2937
rejected events	22522	21314	20750	21484	18853	23825		14%	3%	10%	10%	3%	8%
rejected %	79%	89%	47%	79%	56%	70%	grade 1 events	16	10	334	36	39	21
								0%	0%	0%	0%	0%	0%
							grade 2 events	740	594	6277	980	2977	2227
								2%	2%	14%	3%	8%	6%
							grade 3 events	267	274	706	376	1214	1196
								0%	1%	1%	1%	3%	3%
							grade 4 events	267	285	640	382	1195	1119
								0%	1%	1%	1%	3%	3%
							grade 5 events	1032	1187	2915	1252	3314	1714
								3%	4%	6%	4%	9%	5%
							grade 6 events	542	541	10383	782	7772	2644
								1%	2%	23%	2%	23%	7%
							grade 7 events	21470	20113	17492	20192	15486	22050
								75%	84%	40%	75%	46%	65%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	262.032655	262.0206299297384	CCD I2 on	O2	Y
[deg] Pointing Dec	-14.372907	-14.34797450470075	CCD I3 on	Y	Y
[deg] Pointing Roll	84.111646	84.26522151867954	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	541182433.184000	541181331.02826	CCD S5 on	N	N
Observation start date	2015-02-24T16:26:06	2015-02-24T16:08:51	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	541187433.184000	541188417.36616	On-chip summing requested	N	N
Observation end date	2015-02-24T17:49:26	2015-02-24T18:06:57	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



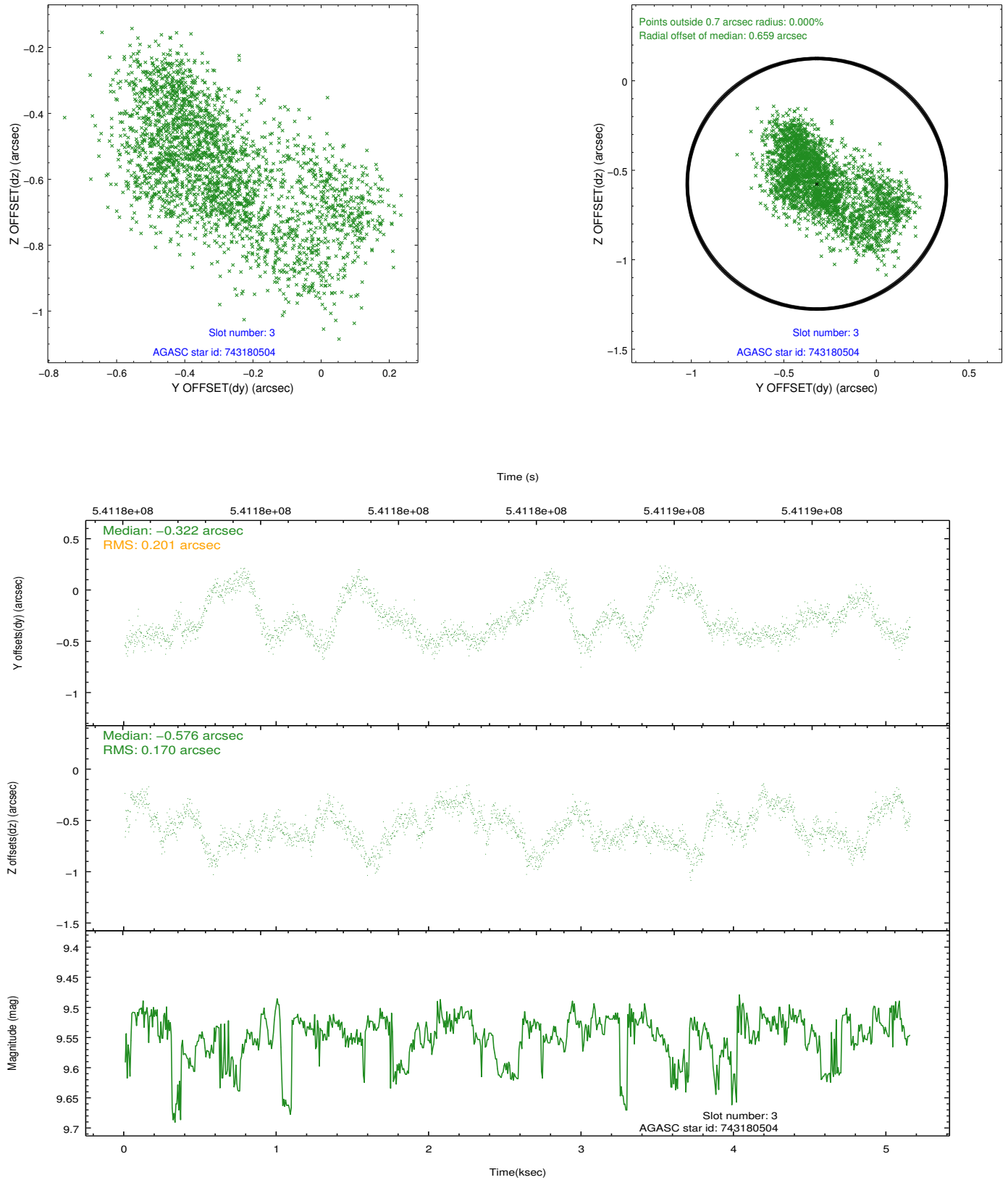


Slot Statistics

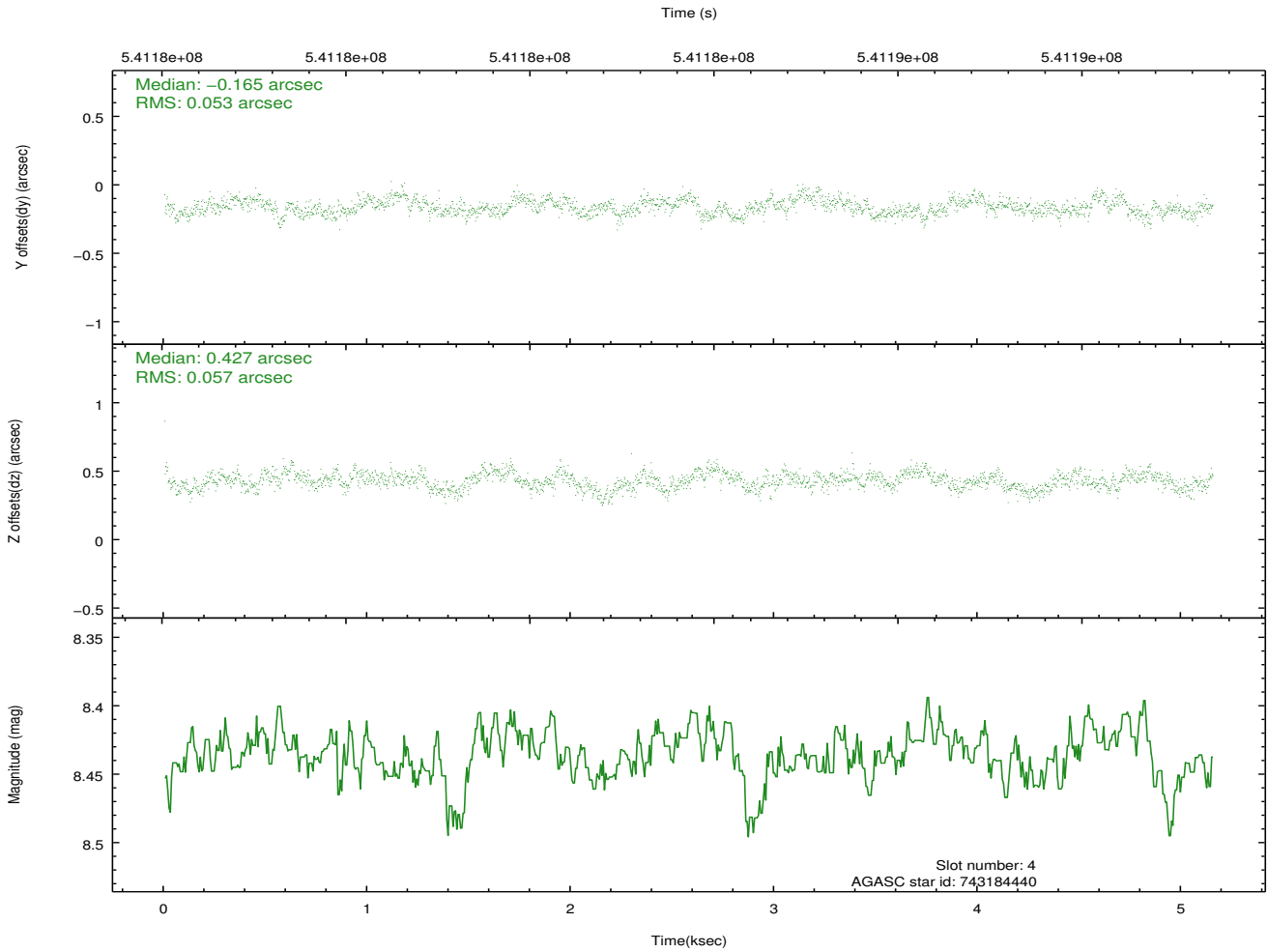
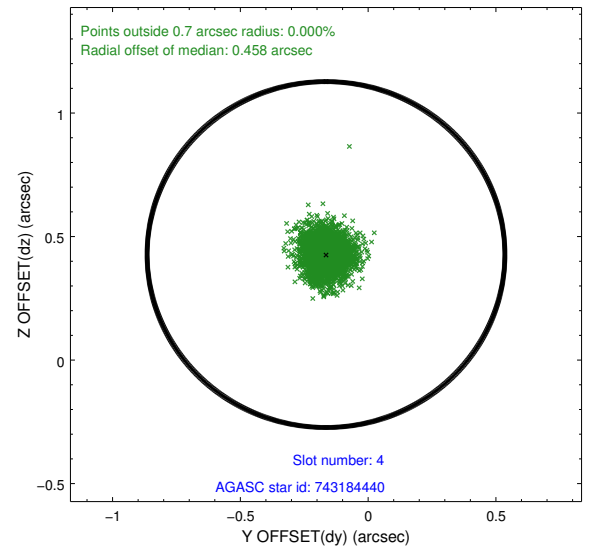
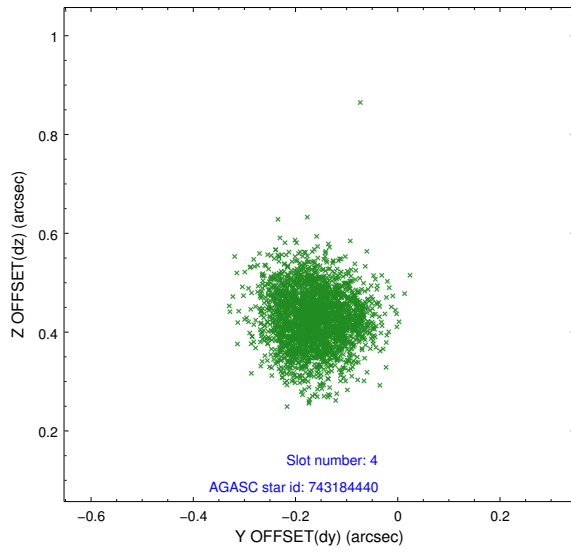
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.03	1257	-0.148	-0.108	0.008	0.012	0.000000	0.000000	-772.71	-1740.14
1	FID		ACIS-S-4	7.13	1257	0.390	0.100	0.005	0.009	0.000000	0.000000	2140.59	167.28
2	FID		ACIS-S-5	7.14	1257	-0.273	0.016	0.007	0.012	0.000000	0.000000	-1824.14	162.27
3	GUIDE	used	743180504	9.54	2512	-0.322	-0.576	0.288	0.462	261.852145	-14.035433	1143.26	751.79
4	GUIDE	used	743184440	8.44	2513	-0.165	0.427	0.083	0.133	262.326597	-14.257885	517.00	-976.74
5	GUIDE	used	743312400	8.11	2513	-0.104	0.272	0.115	0.179	262.670374	-14.408630	97.19	-2224.92
6	GUIDE	used	743316064	8.83	2514	0.321	0.386	0.104	0.182	262.633937	-14.772567	-1218.57	-2230.24
7	GUIDE	used	743179928	9.12	2511	0.236	-0.509	0.160	0.259	261.557910	-14.696387	-1330.51	1523.89

2.4 Star Slots

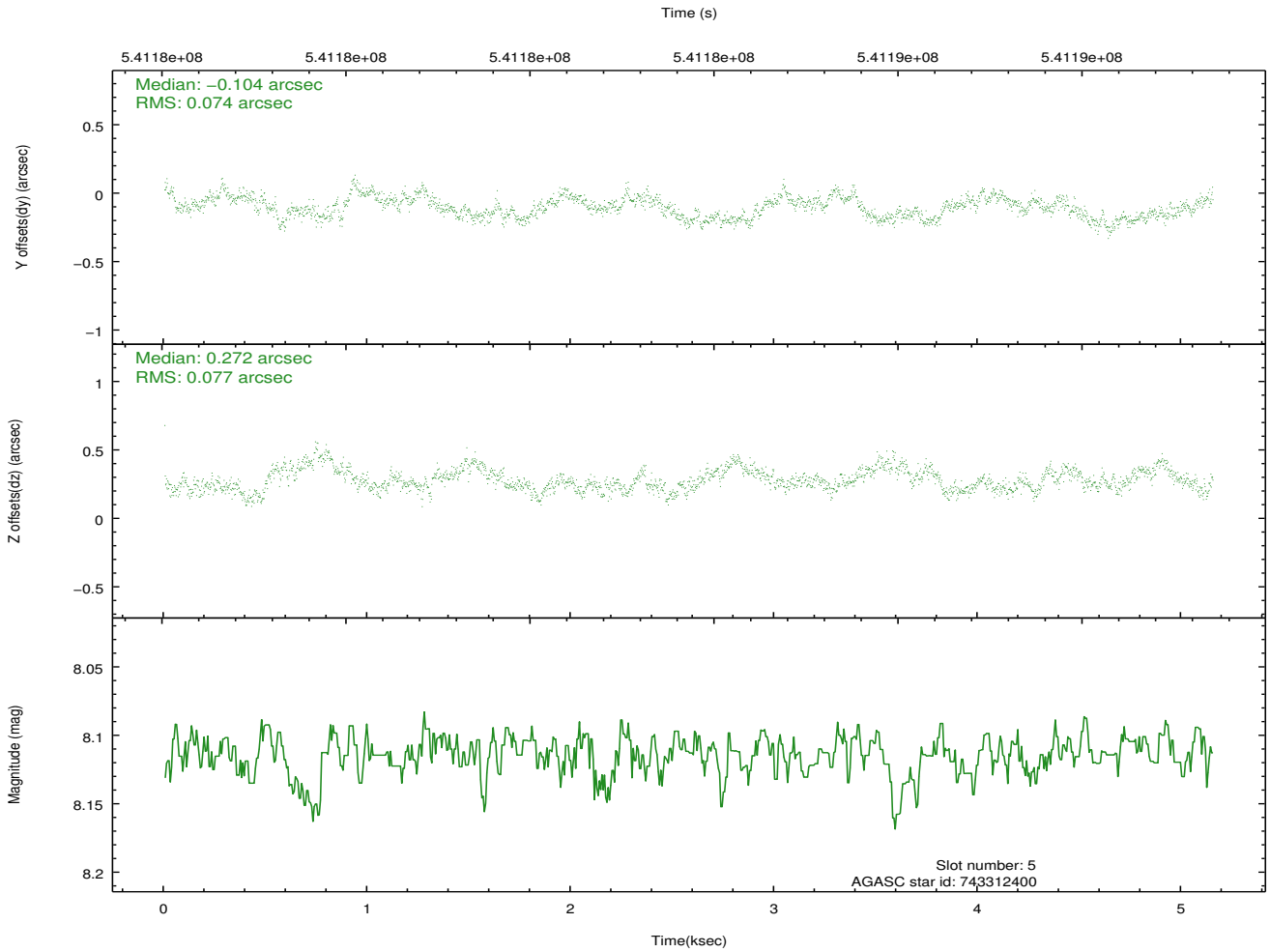
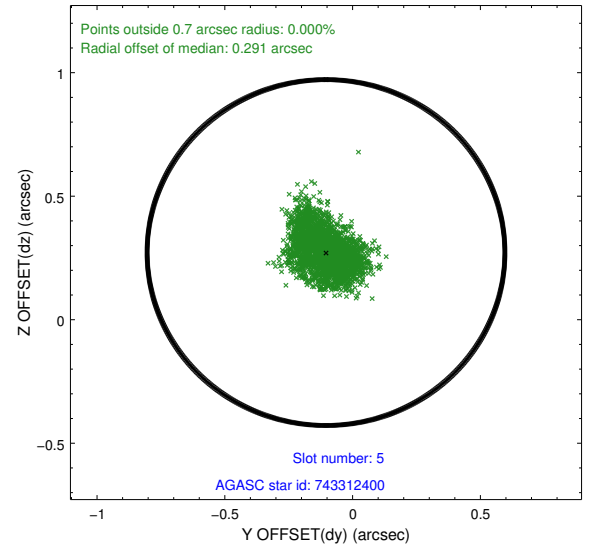
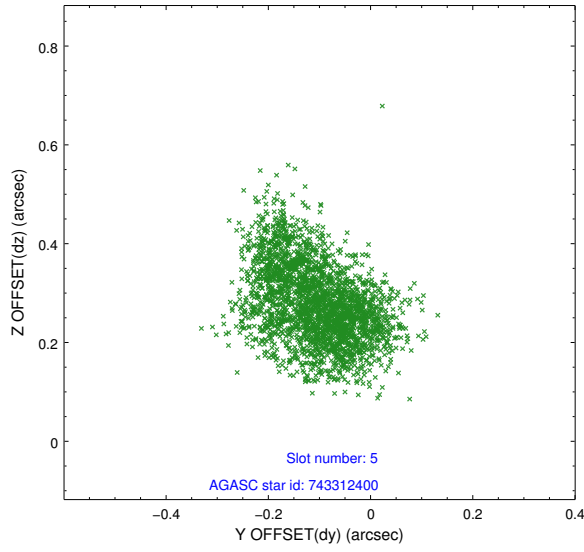
2.4.1 Slot 3



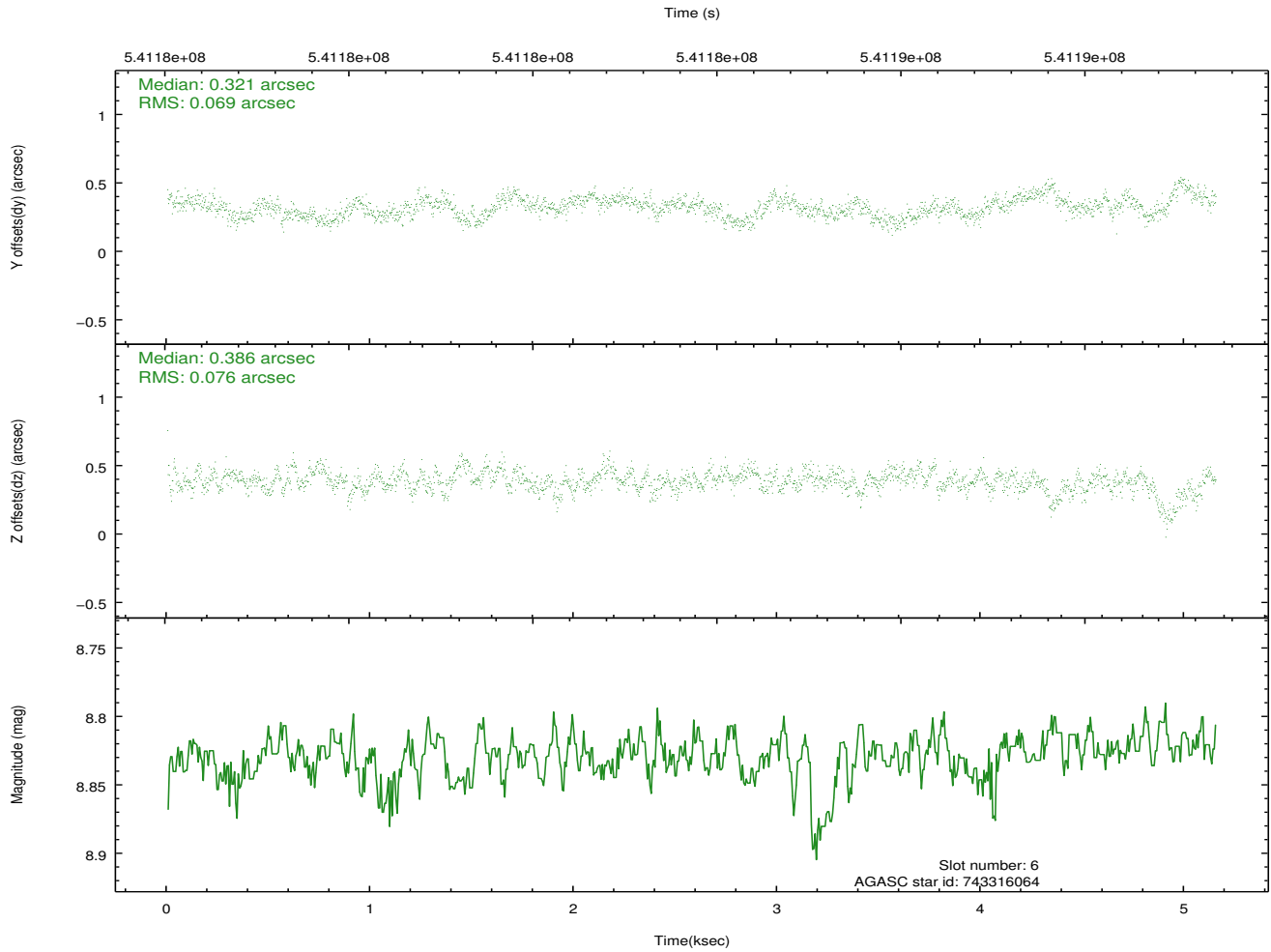
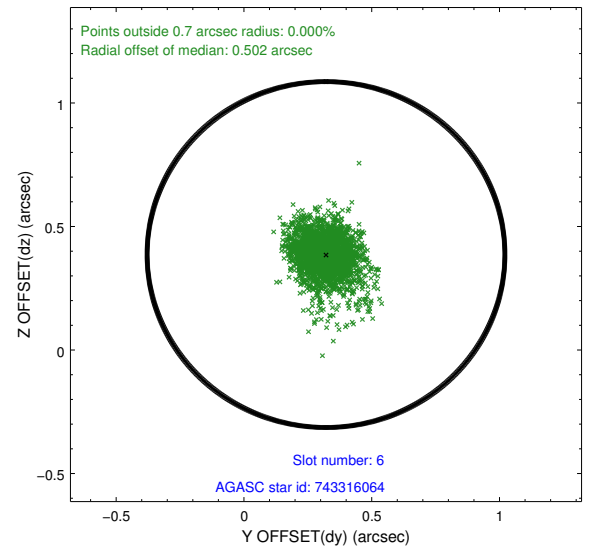
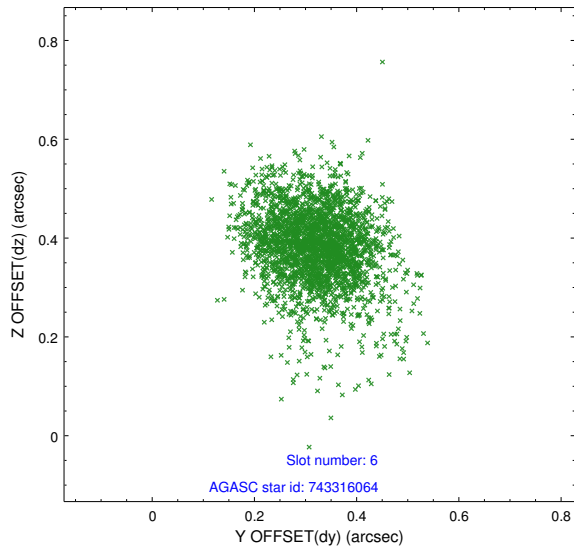
2.4.2 Slot 4



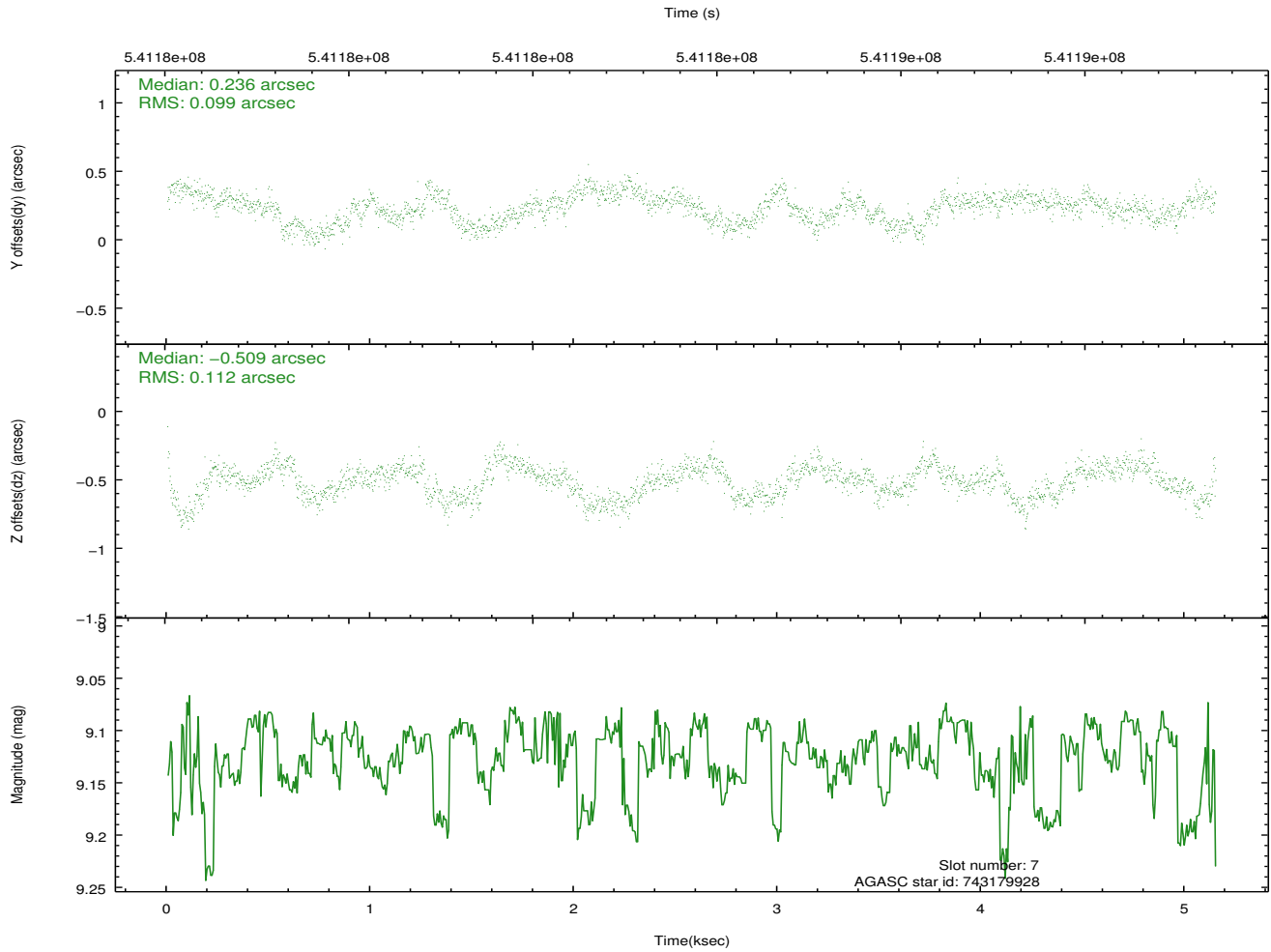
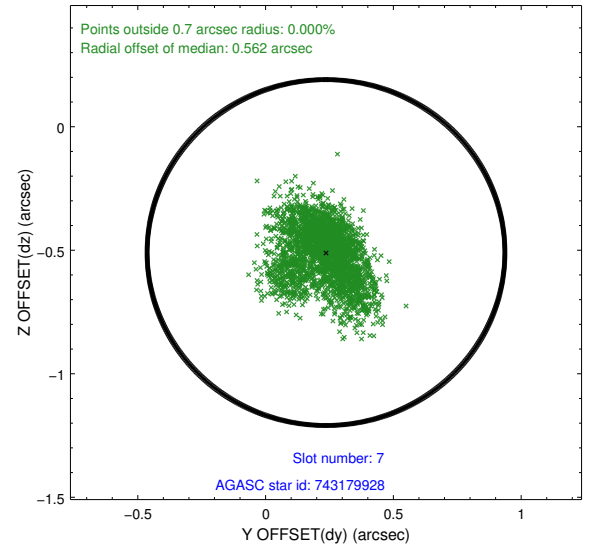
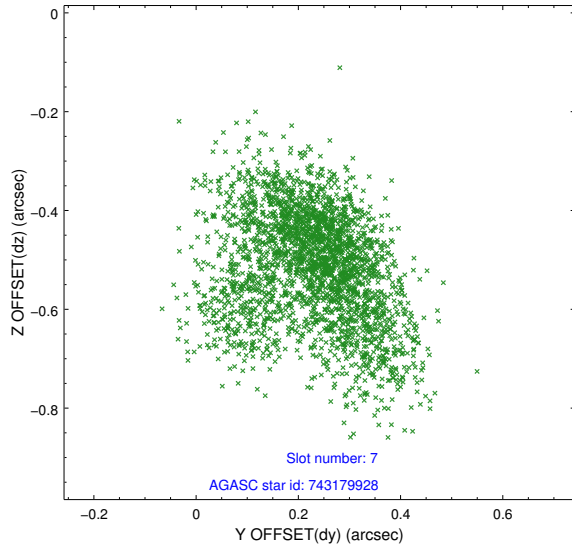
2.4.3 Slot 5



2.4.4 Slot 6

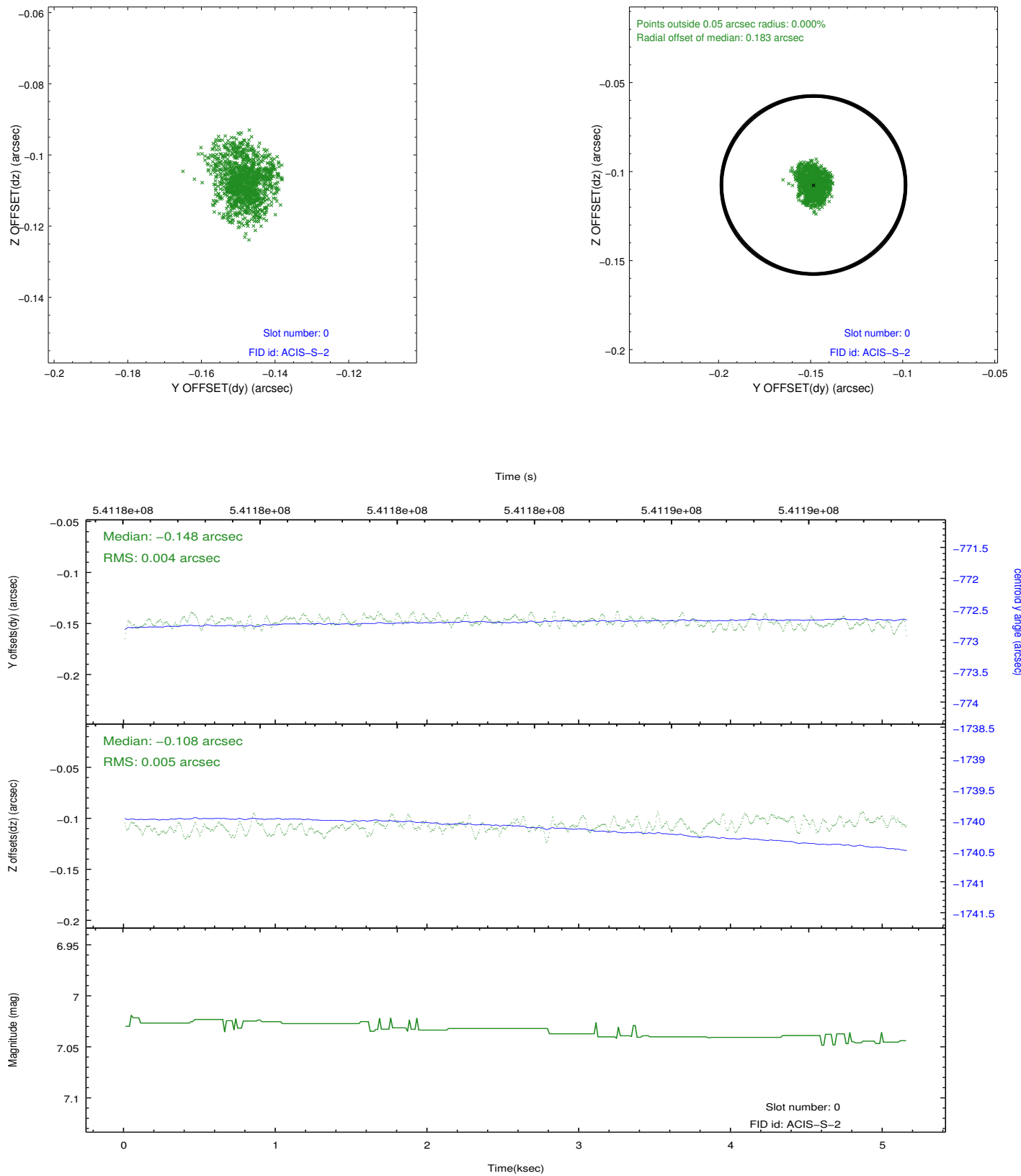


2.4.5 Slot 7

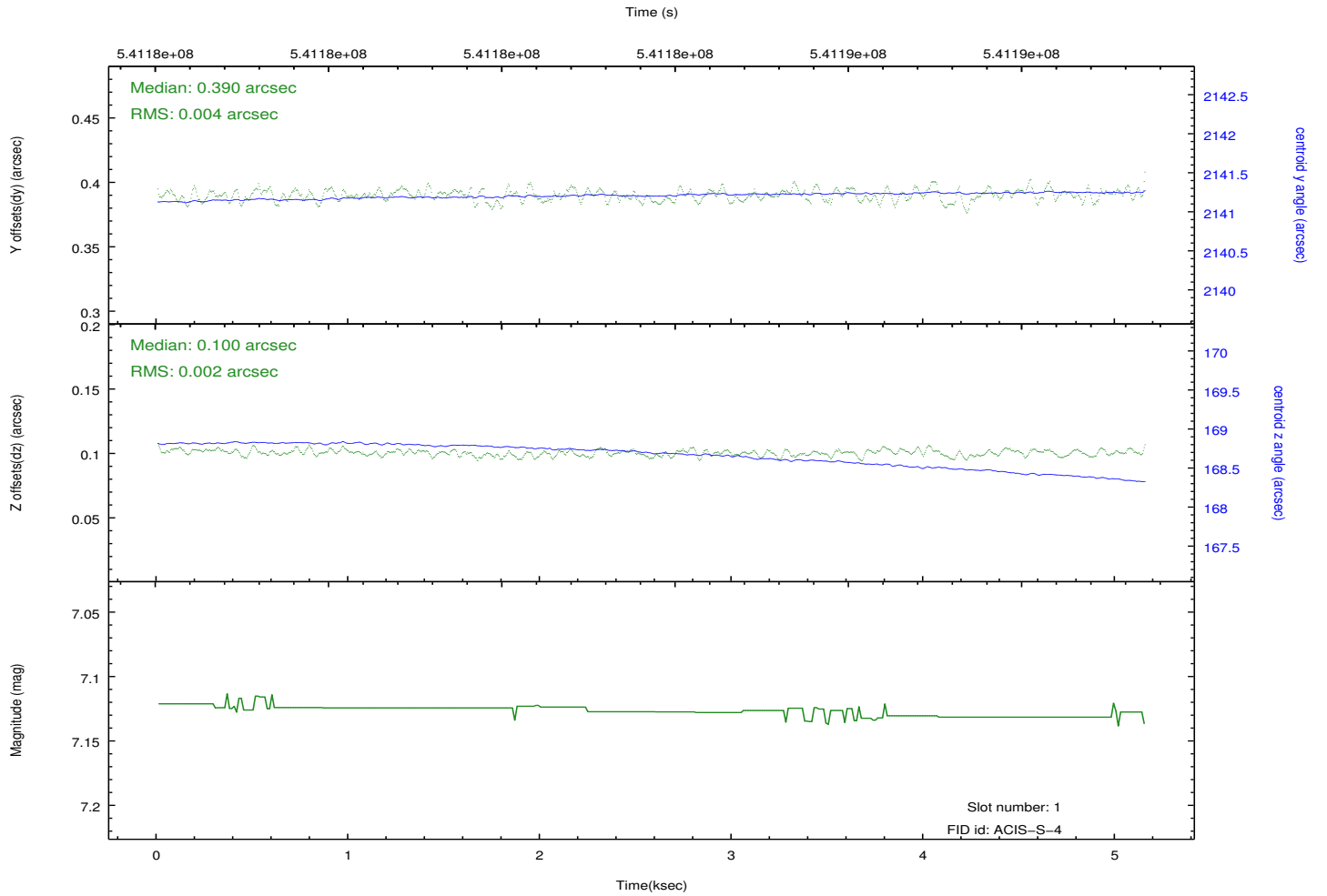
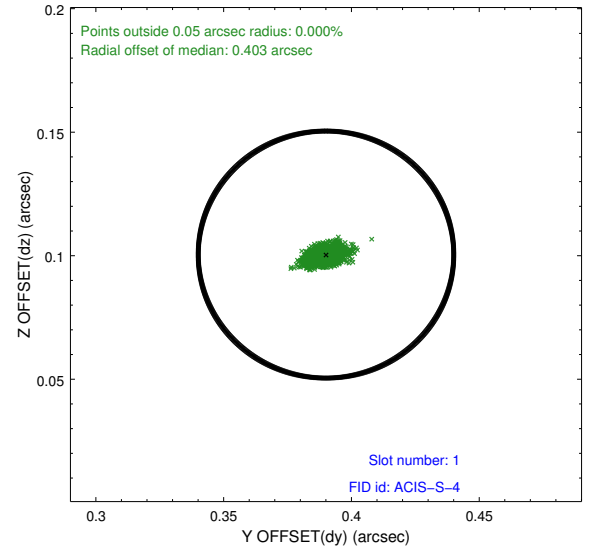
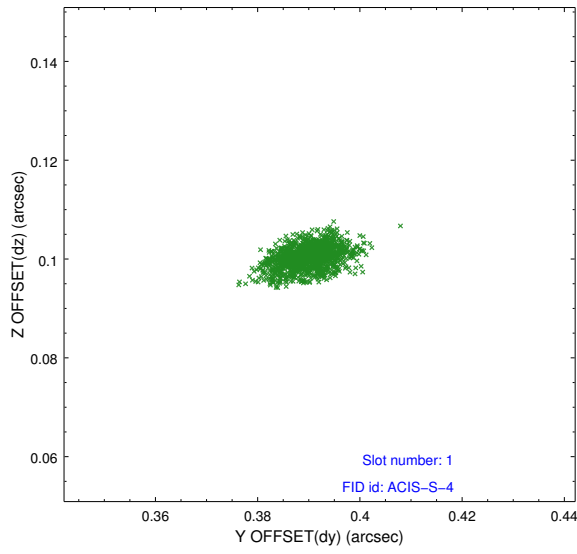


2.5 FID Slots

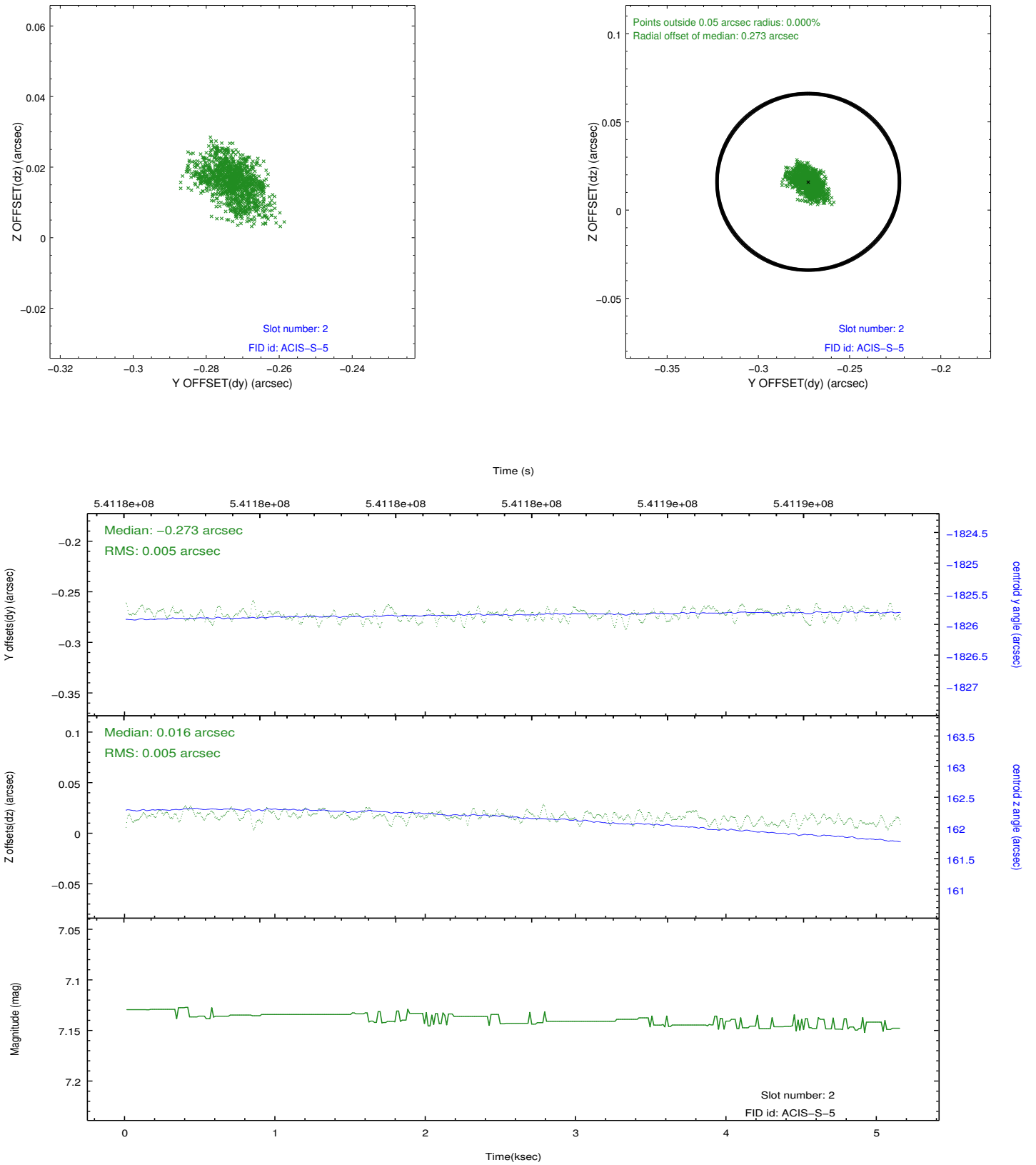
2.5.1 Slot 0



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)	2015.02.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.9504000737667

A.2 Comments

The slot 3 y-angle RMS of 0.201 arcsec and slot 1 radial offset of 0.403 arcsec are acceptable for the aspect solution.