

V&V Reference Report

L2 ASCDS Version : 10.5.4

Observation 18974 - L2 Version 1
Chandra X-Ray Center

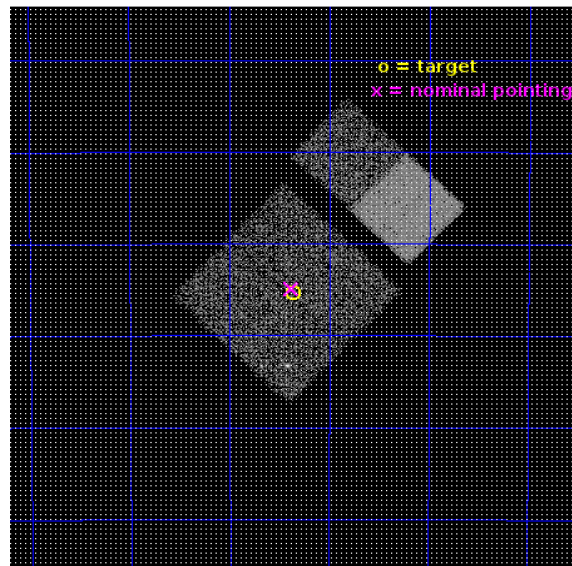
L2 Processing Date : May 3 2017

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1 Front

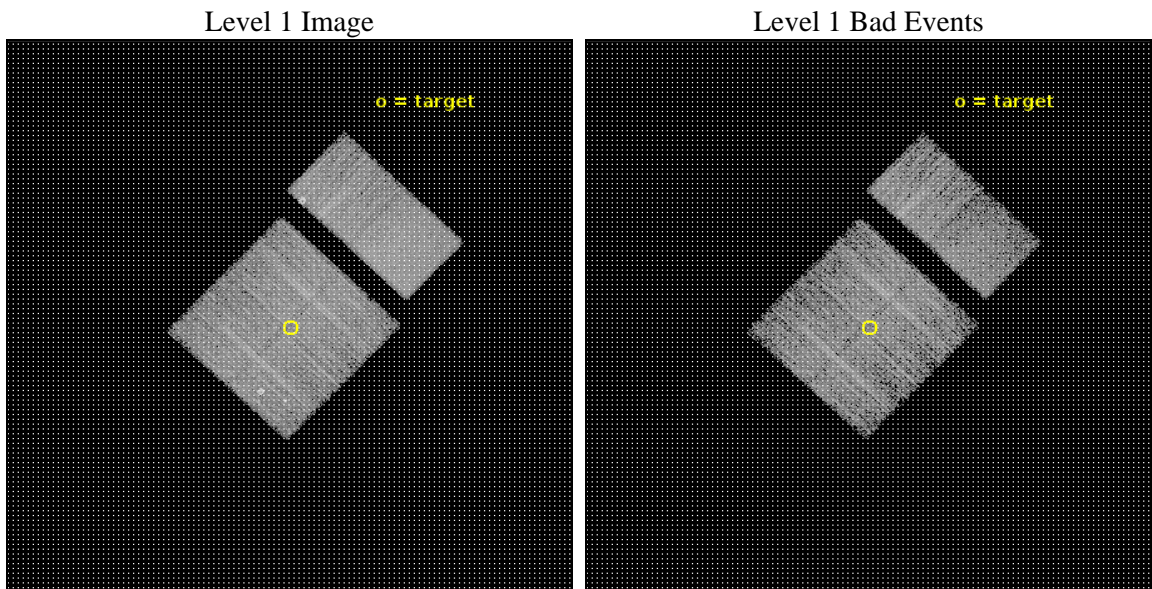
seq_num	401842	Sequence number
obs_id	18974	Observation id
title	The Nature of INTEGRAL Sources in the Galactic Plane	Proposal titl
observer	John Tomsick	Principal investigator
object	IGR J16246-4556	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	246.090833	Observer's specified target RA [deg]
dec_targ	-45.923	Observer's specified target Dec [deg]
ra_nom	246.09477221923	Nominal RA [deg]
dec_nom	-45.915078864513	Nominal Dec [deg]
roll_nom	43.746158742194	Nominal Roll [deg]
revision	1	Processing version of data
ontime	4947.200073719	Sum of GTIs [s]
livetime	4884.5556475393	Livetime [s]
ontime0	4947.200073719	Sum of GTIs [s]
ontime1	4943.9589933157	Sum of GTIs [s]
ontime2	4947.200073719	Sum of GTIs [s]
ontime3	4947.200073719	Sum of GTIs [s]
ontime6	4947.200073719	Sum of GTIs [s]
ontime7	4947.200073719	Sum of GTIs [s]
l2events	35744	Number of level 2 events



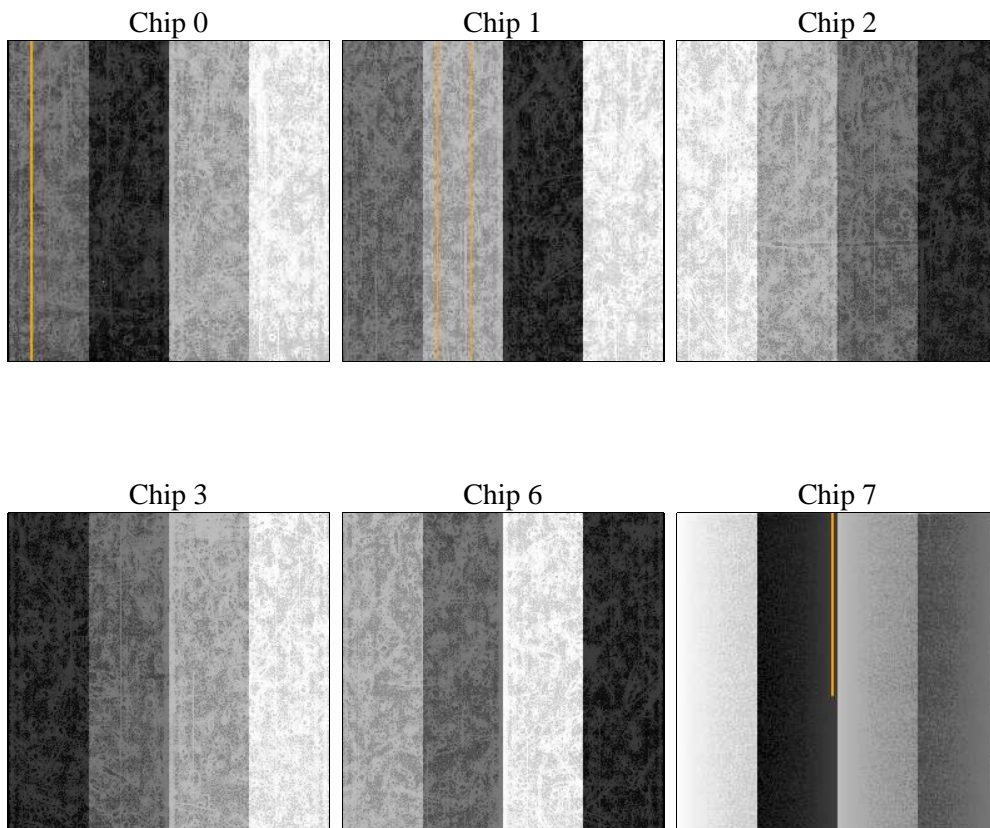
2 OBI

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	10.5.4	Processing system revision	ontime	4947.200073719	Sum of GTIs [s]
caldbver	4.7.3	 	ontime0	4947.200073719	Sum of GTIs [s]
date	2017-05-03T23:28:47	Date and time of file creation	ontime1	4943.9589933157	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	4947.200073719	Sum of GTIs [s]
			ontime3	4947.200073719	Sum of GTIs [s]
			ontime6	4947.200073719	Sum of GTIs [s]
			ontime7	4947.200073719	Sum of GTIs [s]
			l1events	227334	Number of level 1 events

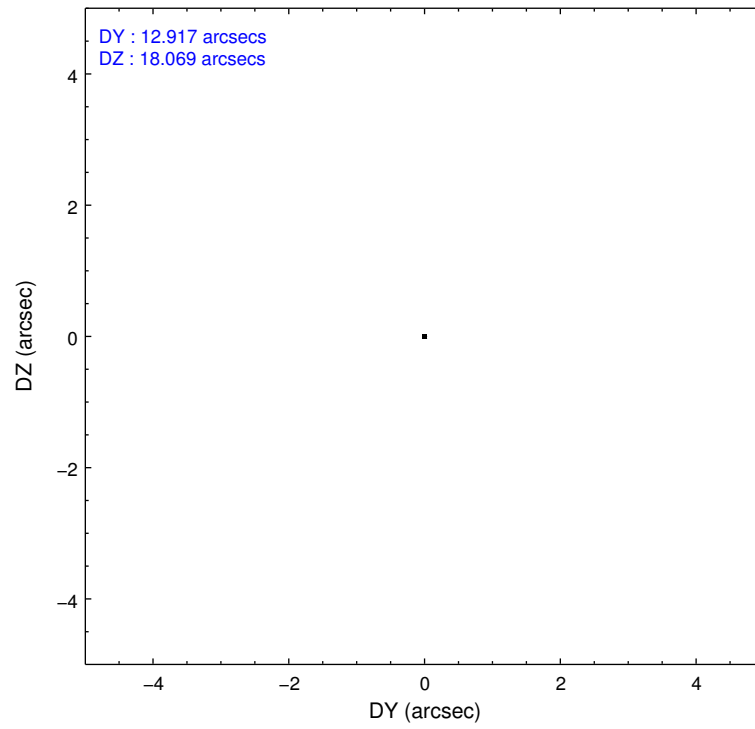
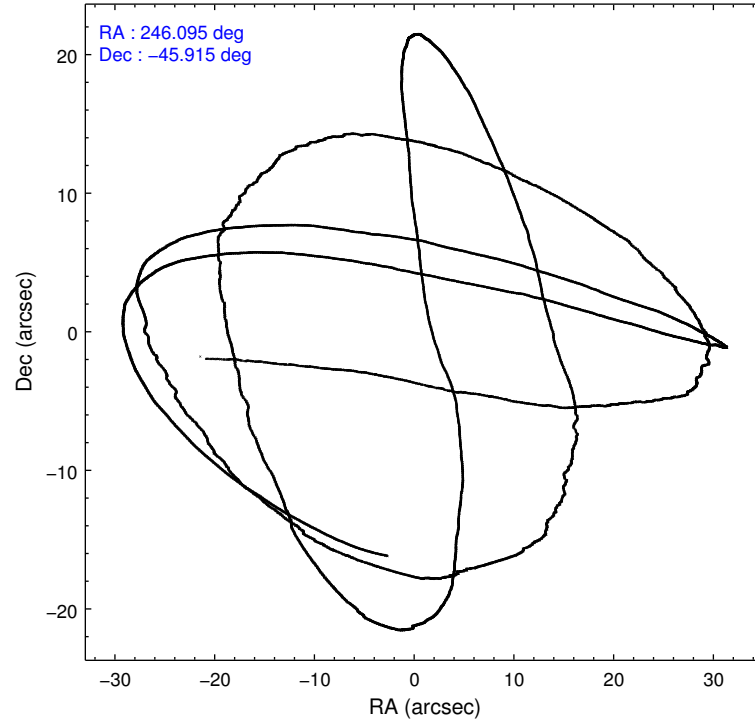
2.1.4 Events

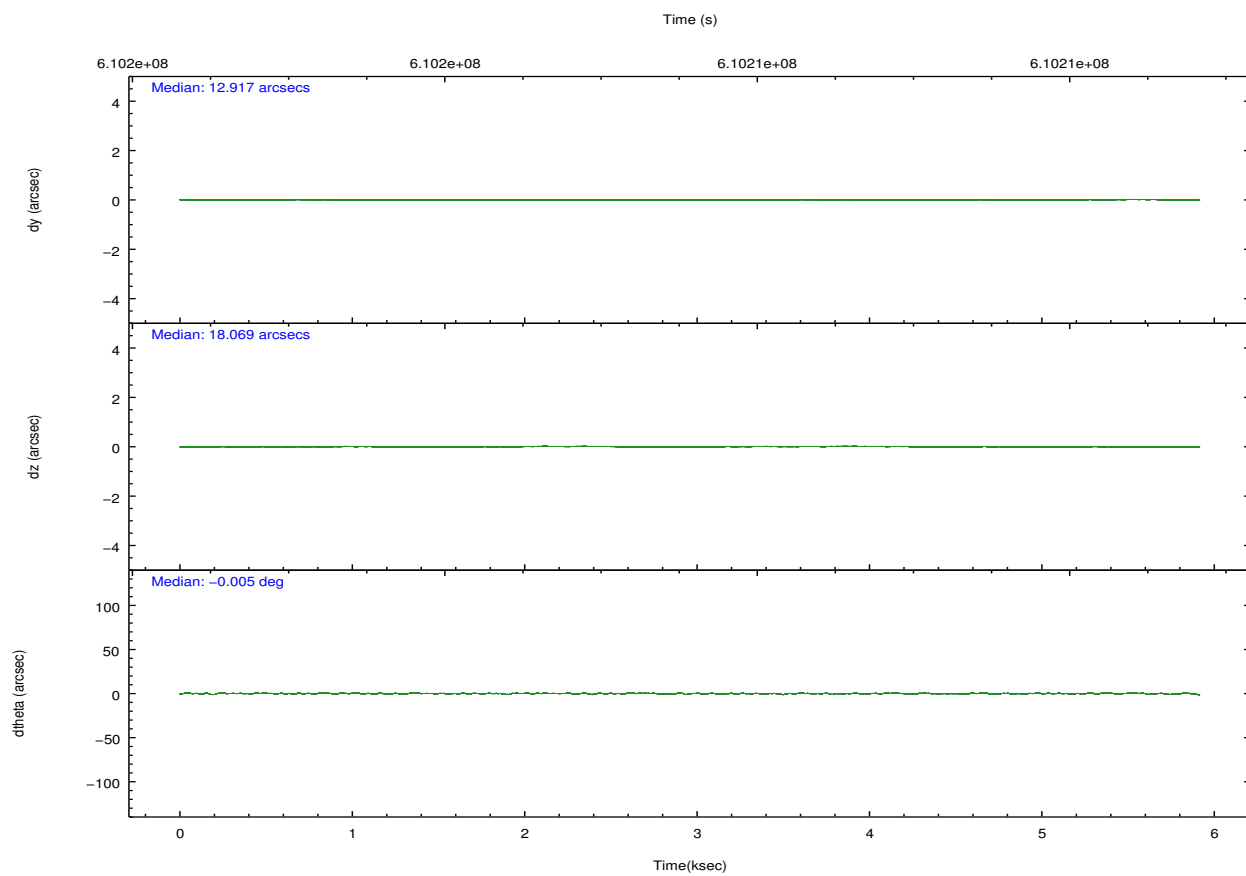
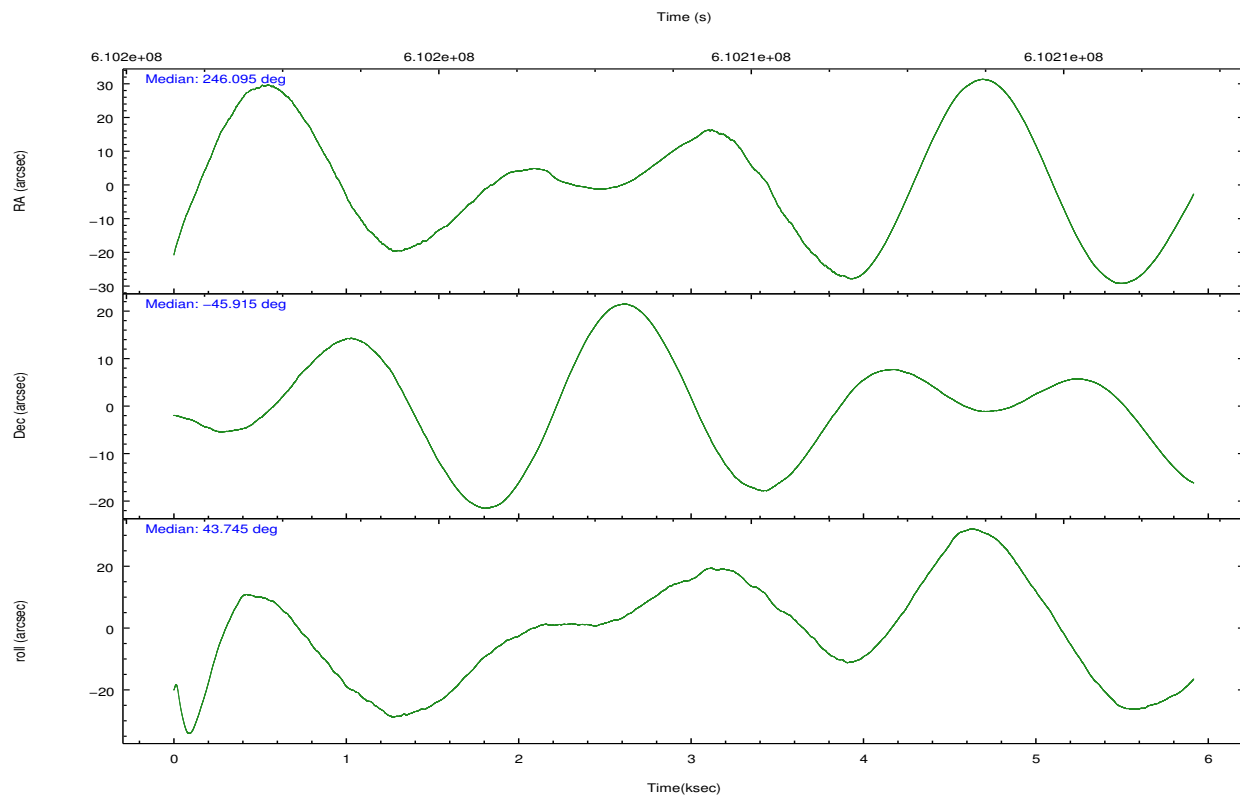
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	33402	36877	37036	35735	39265	45019	grade 0 events	1450	3382	1370	1340	2691	1498
rejected events	29361	30569	33375	32090	33847	25868		4%	9%	3%	3%	6%	3%
rejected %	87%	82%	90%	89%	86%	57%	grade 1 events	23	35	13	30	31	47
								0%	0%	0%	0%	0%	0%
							grade 2 events	984	1165	862	757	1014	4063
								2%	3%	2%	2%	2%	9%
							grade 3 events	397	362	354	421	315	1381
								1%	0%	0%	1%	0%	3%
							grade 4 events	342	392	362	356	359	1296
								1%	1%	0%	0%	0%	2%
							grade 5 events	1328	1453	1277	1633	1485	4139
								3%	3%	3%	4%	3%	9%
							grade 6 events	870	1014	717	772	1042	10924
								2%	2%	1%	2%	2%	24%
							grade 7 events	28008	29074	32081	30426	32328	21671
								83%	78%	86%	85%	82%	48%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	246.083849	246.0947722192278	CCD I2 on	Y	Y
[deg] Pointing Dec	-45.941657	-45.91507886451316	CCD I3 on	Y	Y
[deg] Pointing Roll	43.529500	43.74615874219413	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O2	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	610203523.184000	610202190.67726	CCD S5 on	N	N
Observation start date	2017-05-03T12:57:34	2017-05-03T12:36:30	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	610208523.184000	610209360.55268	On-chip summing requested	N	N
Observation end date	2017-05-03T14:20:54	2017-05-03T14:36:00	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



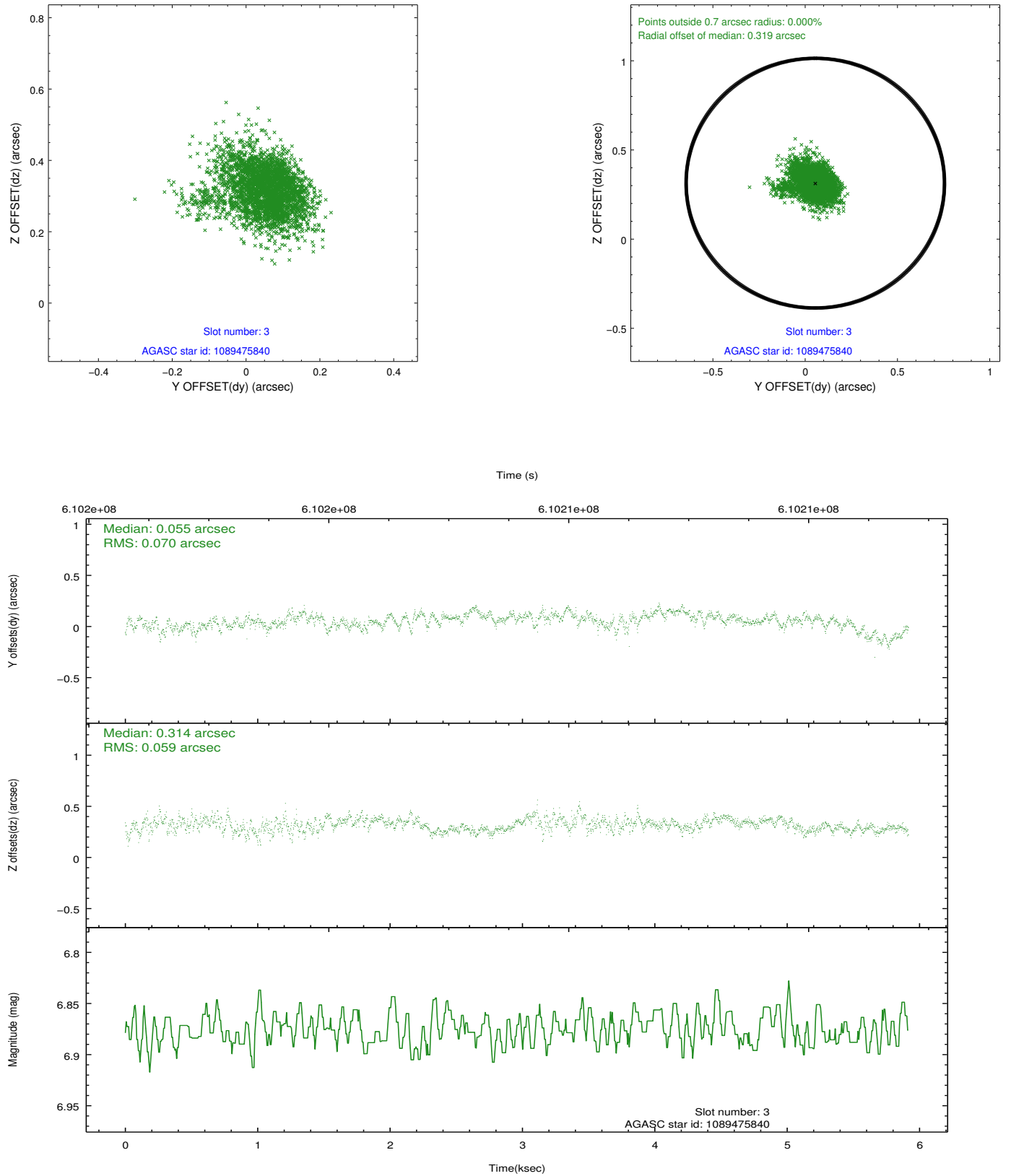


Slot Statistics

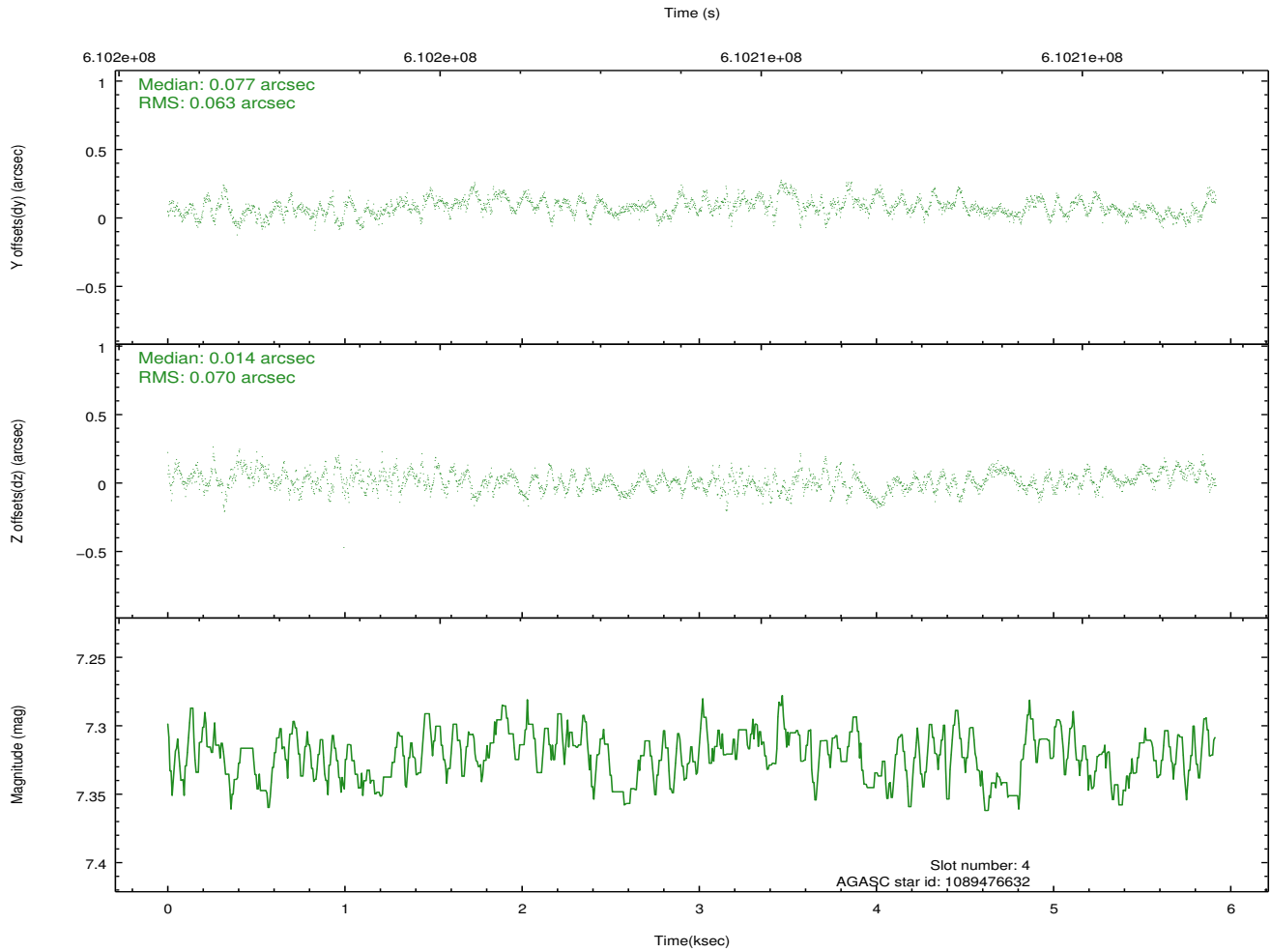
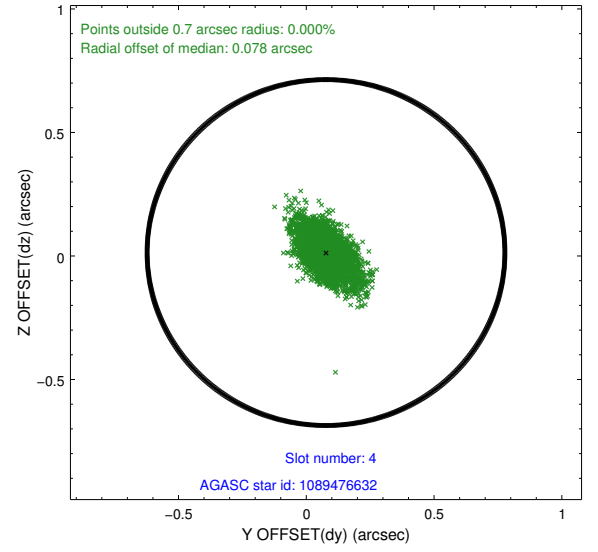
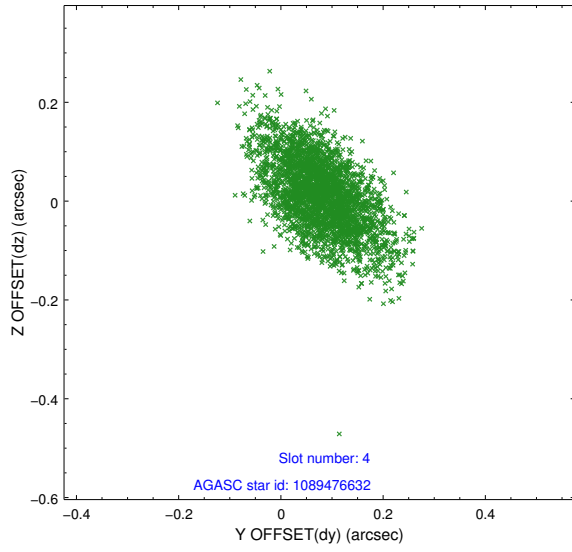
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.28	1442	0.078	-0.042	0.006	0.011	0.000000	0.000000	926.71	-841.75
1	FID		ACIS-I-5	7.28	1443	-0.350	0.040	0.007	0.012	0.000000	0.000000	-1821.35	1055.19
2	FID		ACIS-I-6	7.28	1443	0.181	0.072	0.007	0.012	0.000000	0.000000	391.15	1700.96
3	GUIDE	used	1089475840	6.88	2887	0.055	0.314	0.093	0.167	246.582198	-45.791391	1277.07	-472.15
4	GUIDE	used	1089476632	7.32	2887	0.077	0.014	0.096	0.174	246.148571	-45.851178	342.59	123.08
5	GUIDE	used	1089478400	7.86	2887	-0.171	-0.219	0.117	0.192	246.169044	-45.180500	2044.02	1837.32
6	GUIDE	used	1089494240	7.57	2885	-0.224	-0.300	0.100	0.181	246.035630	-45.150582	1873.02	2149.06
7	GUIDE	used	1089481624	8.81	2884	0.262	0.185	0.114	0.188	245.790850	-46.111039	-950.00	61.17

2.4 Star Slots

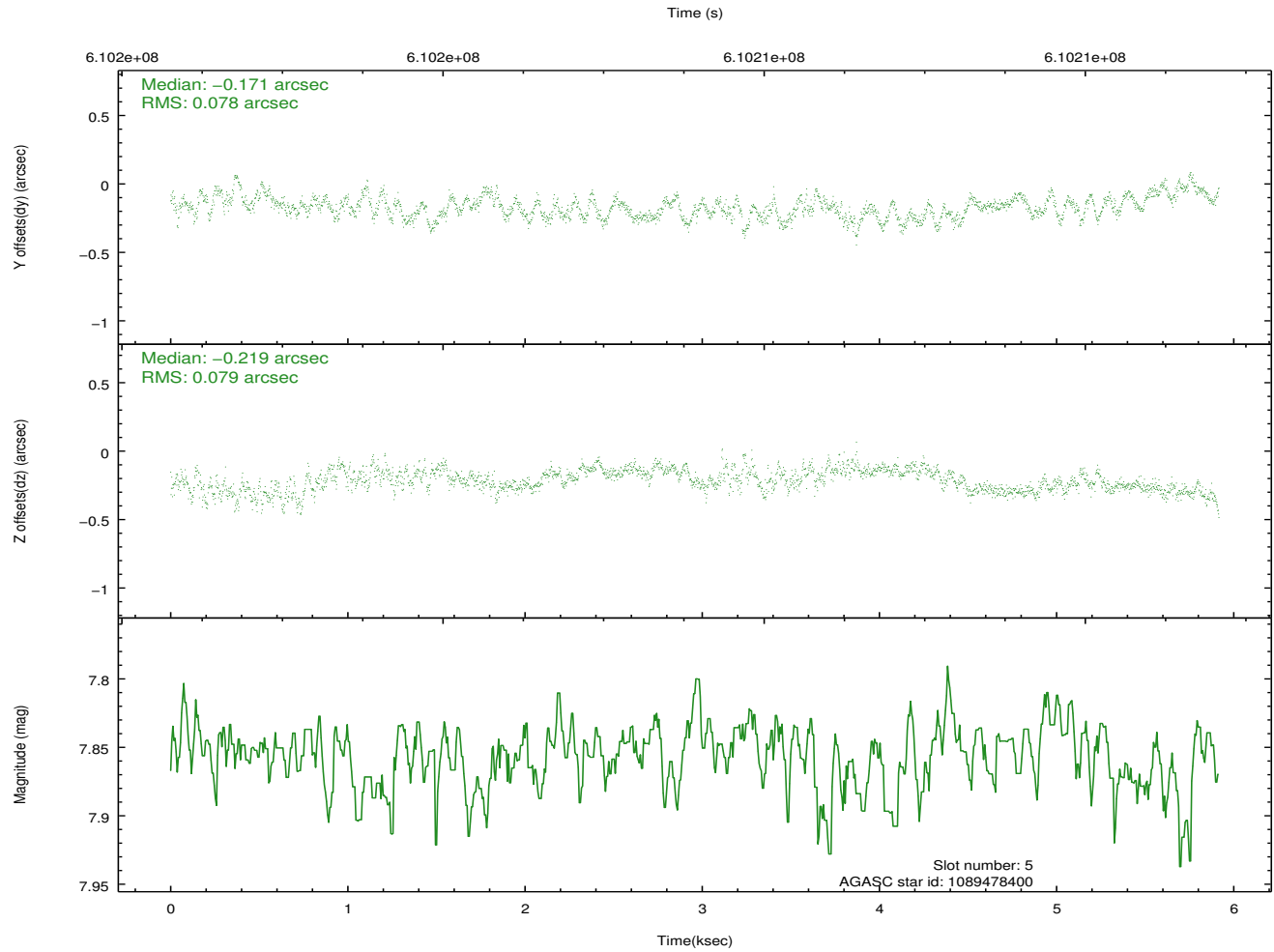
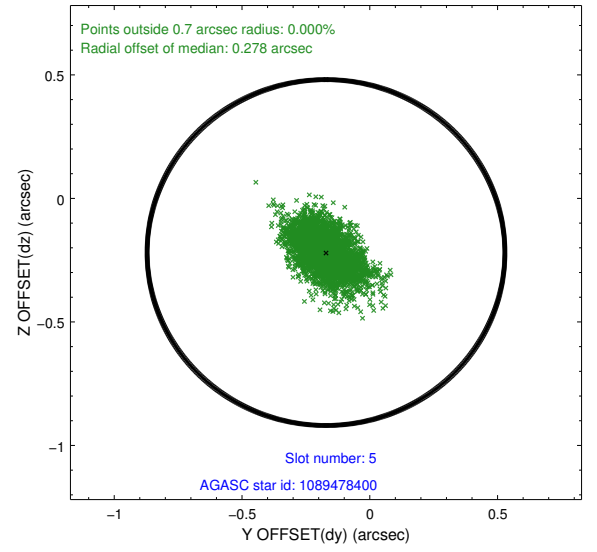
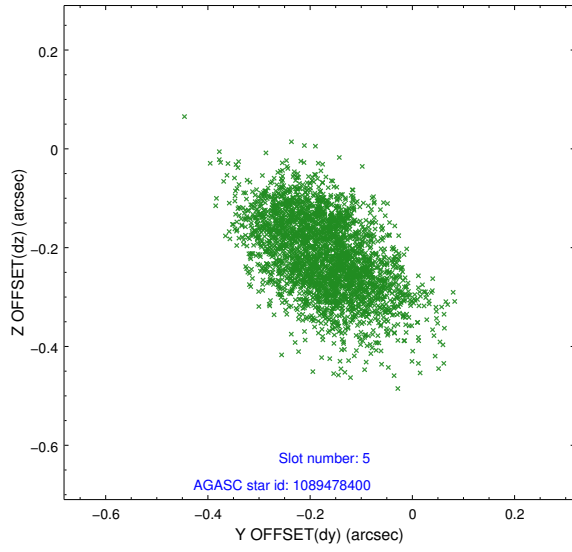
2.4.1 Slot 3



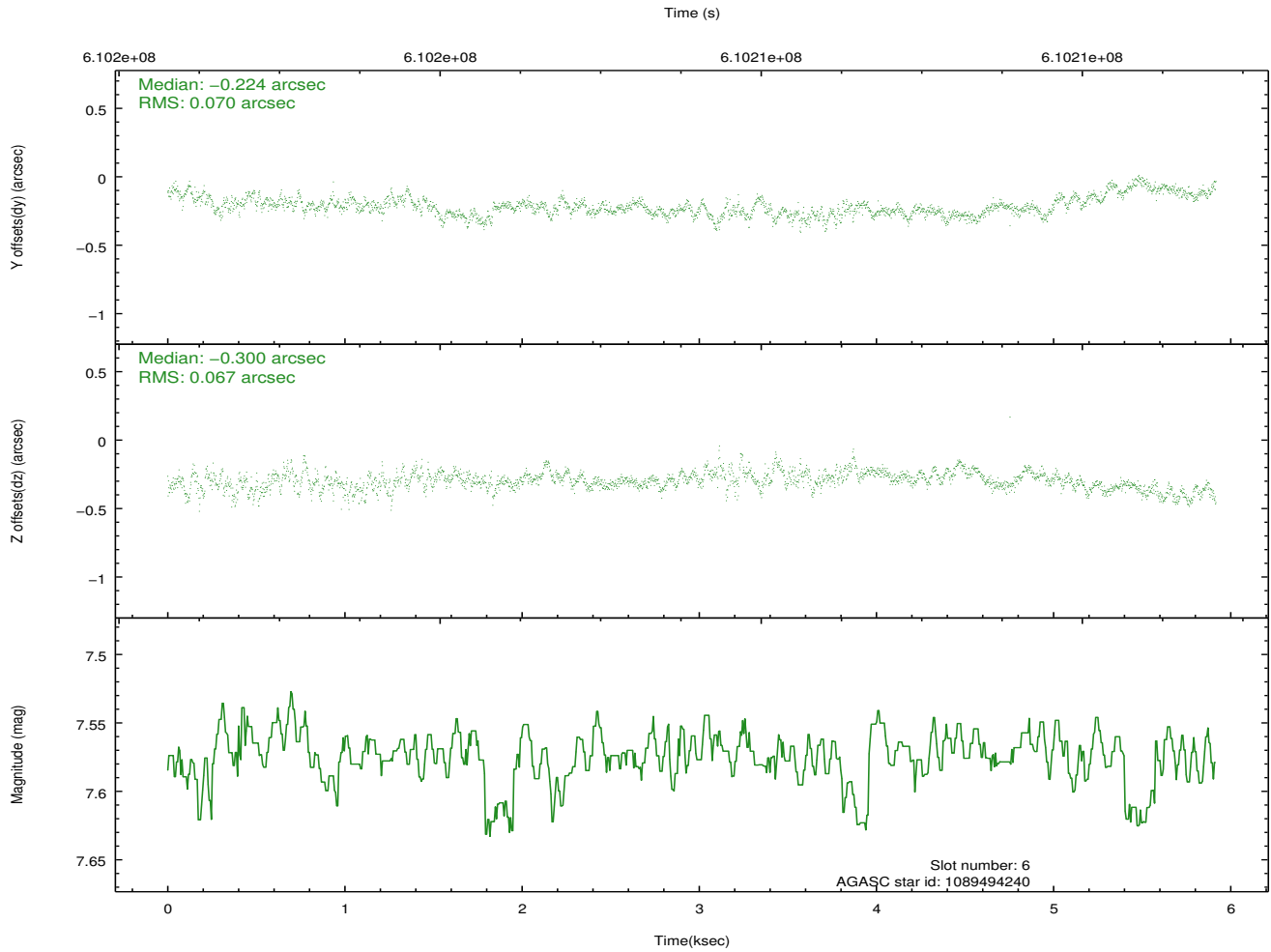
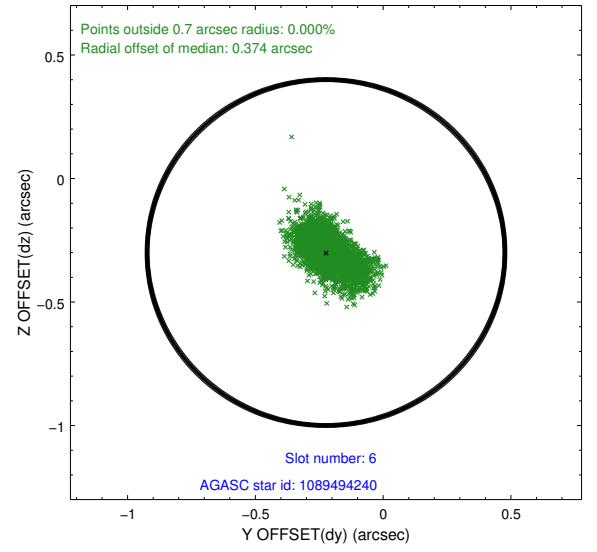
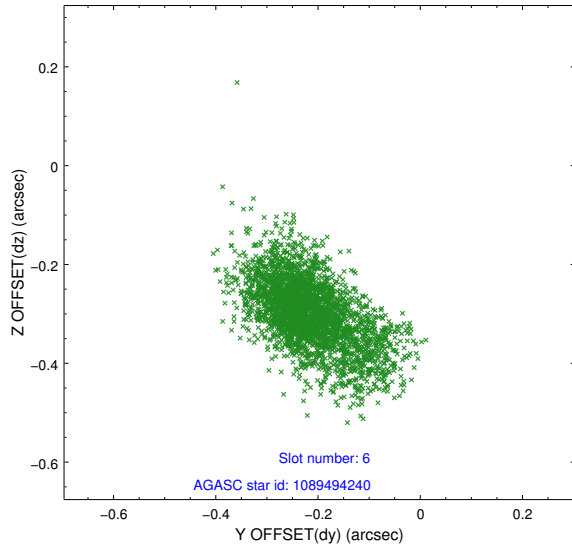
2.4.2 Slot 4



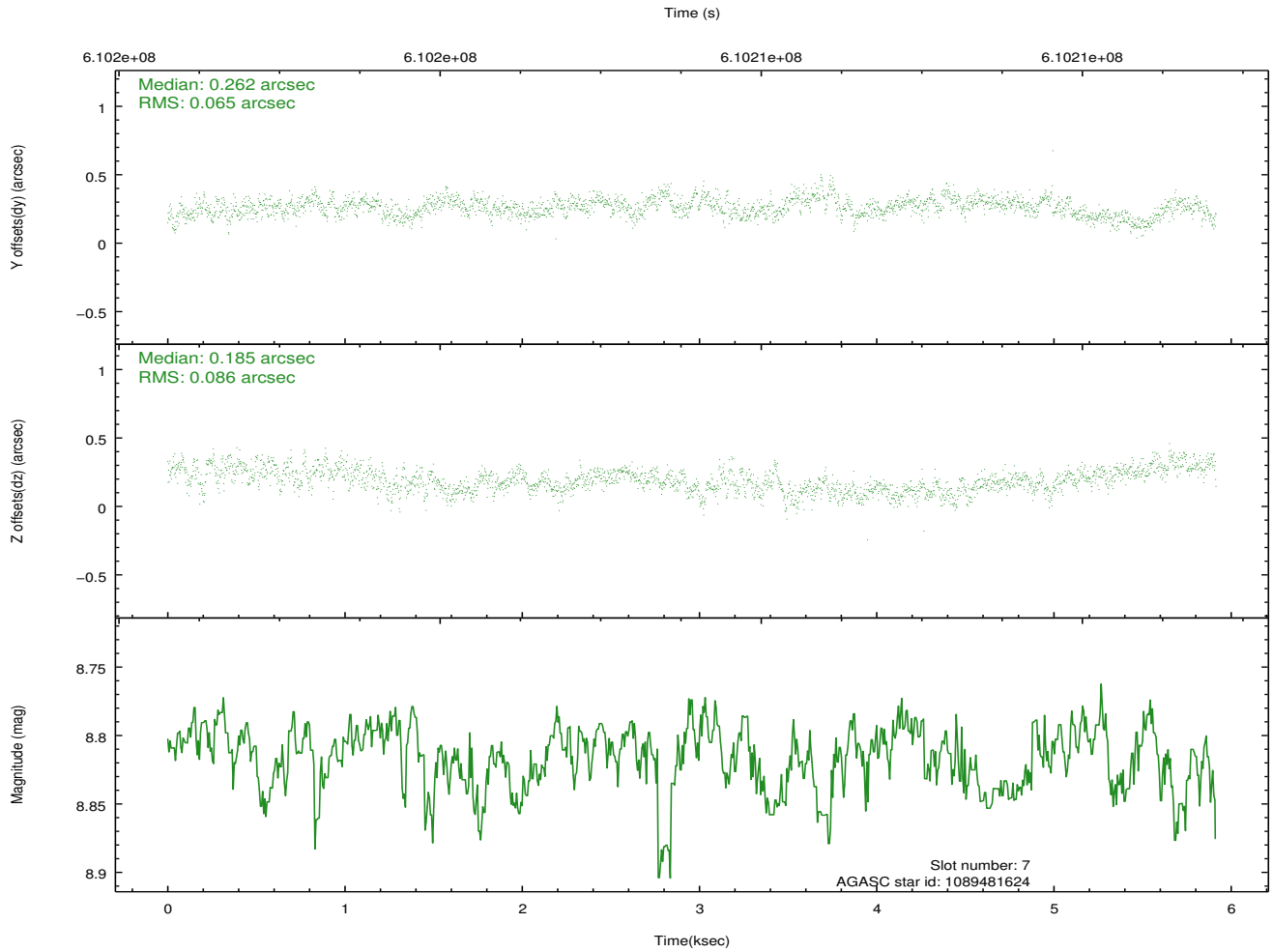
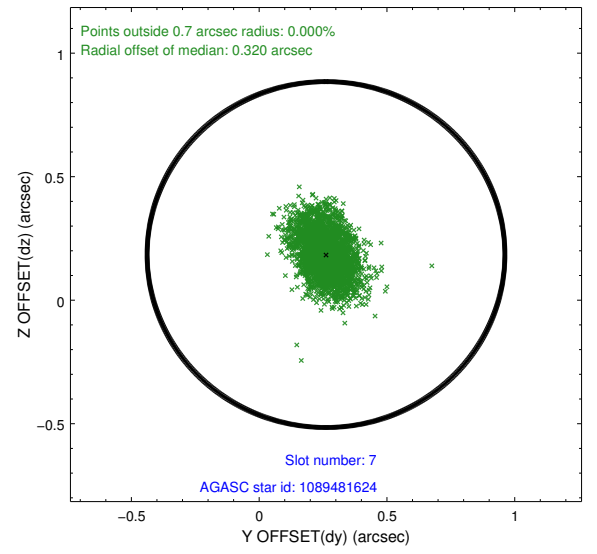
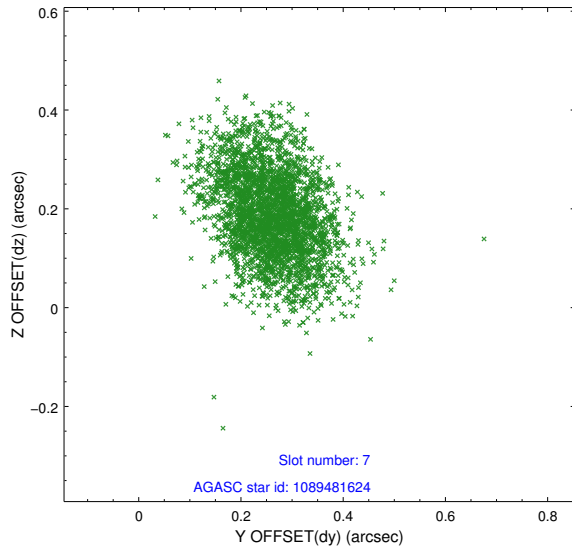
2.4.3 Slot 5



2.4.4 Slot 6

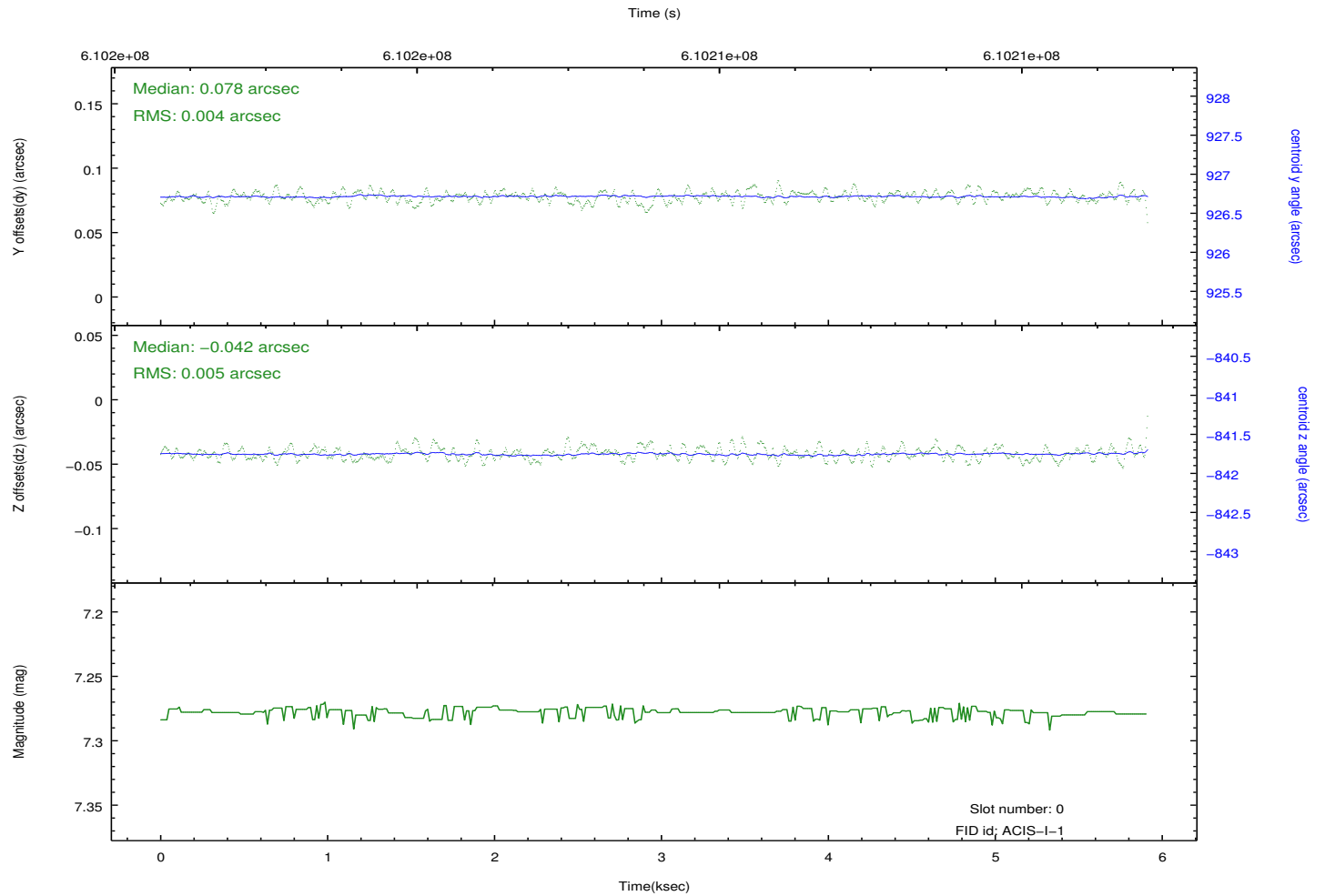
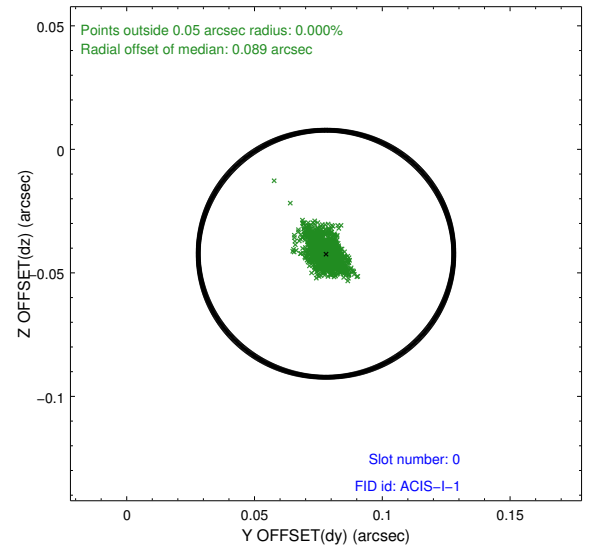
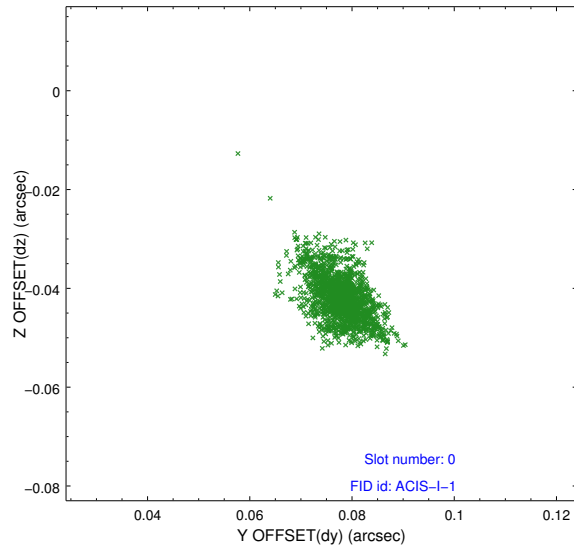


2.4.5 Slot 7

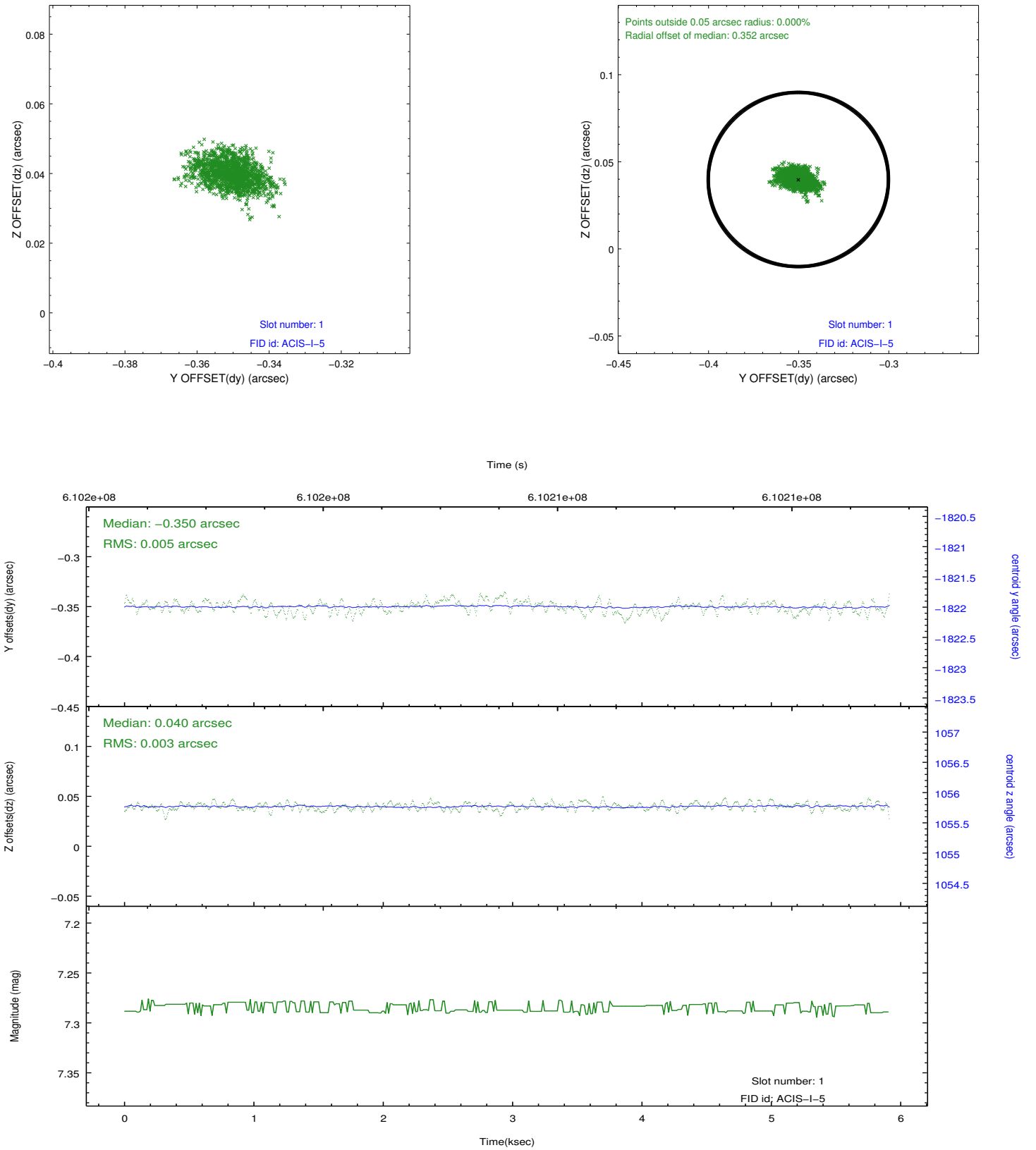


2.5 FID Slots

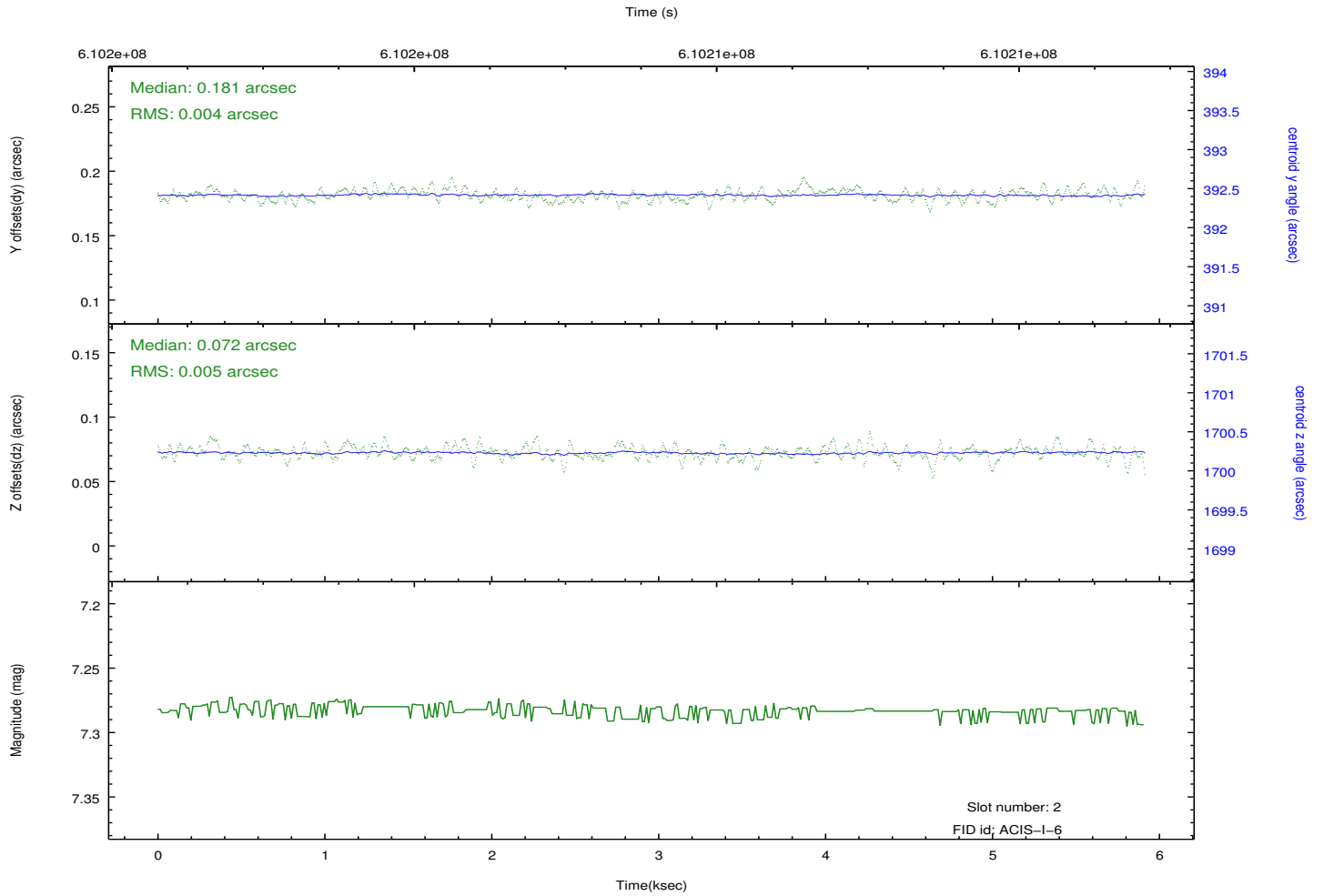
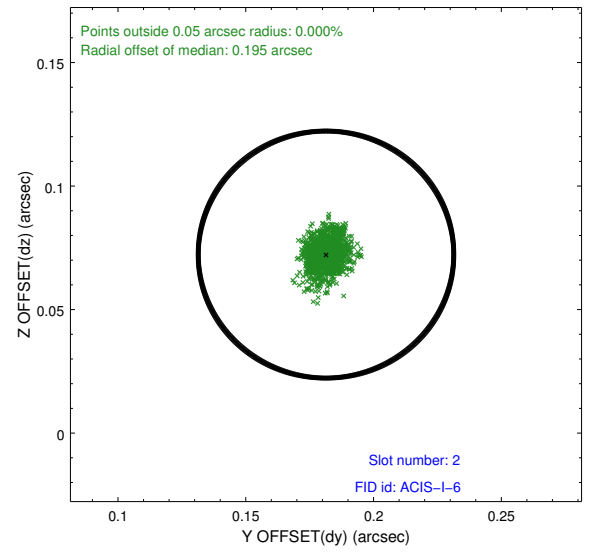
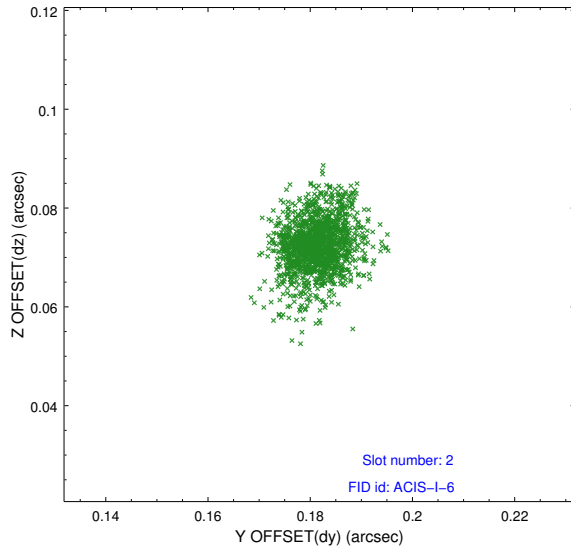
2.5.1 Slot 0



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)	2017.05.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.947200073719

A.2 Comments