

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 20727 - L2 Version 1
Chandra X-Ray Center

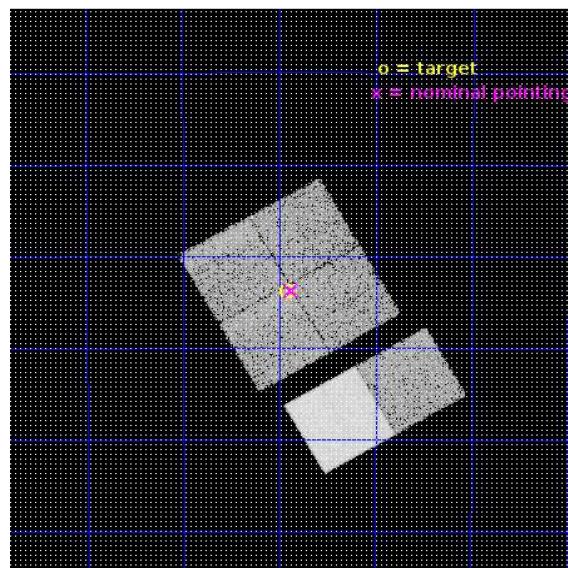
L2 Processing Date : Sep 10 2017

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1 Front

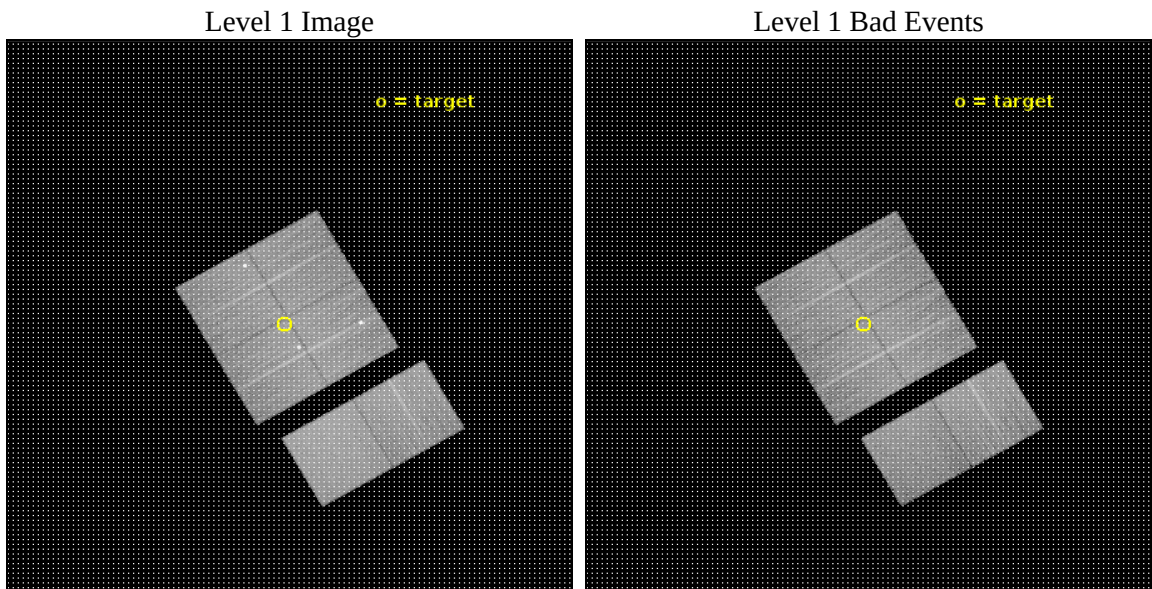
seq_num	201150	Sequence number
obs_id	20727	Observation id
title	IRAS 09002-4732: Star formation in a molecular cloud filament(GTO)	
observer	Gordon Garmire	Principal investigator
object	IRAS 09002-4732	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	135.479167	Observer's specified target RA [deg]
dec_targ	-47.729667	Observer's specified target Dec [deg]
ra_nom	135.46878501811	Nominal RA [deg]
dec_nom	-47.72937451863	Nominal Dec [deg]
roll_nom	150.2010110123	Nominal Roll [deg]
revision	1	Processing version of data
ontime	19868.759275913	Sum of GTIs [s]
livetime	19617.169082431	Livetime [s]
ontime0	19872.000296116	Sum of GTIs [s]
ontime1	19872.000296116	Sum of GTIs [s]
ontime2	19868.759305835	Sum of GTIs [s]
ontime3	19868.759275913	Sum of GTIs [s]
ontime6	19872.000296116	Sum of GTIs [s]
ontime7	19872.000296116	Sum of GTIs [s]
l2events	131649	Number of level 2 events



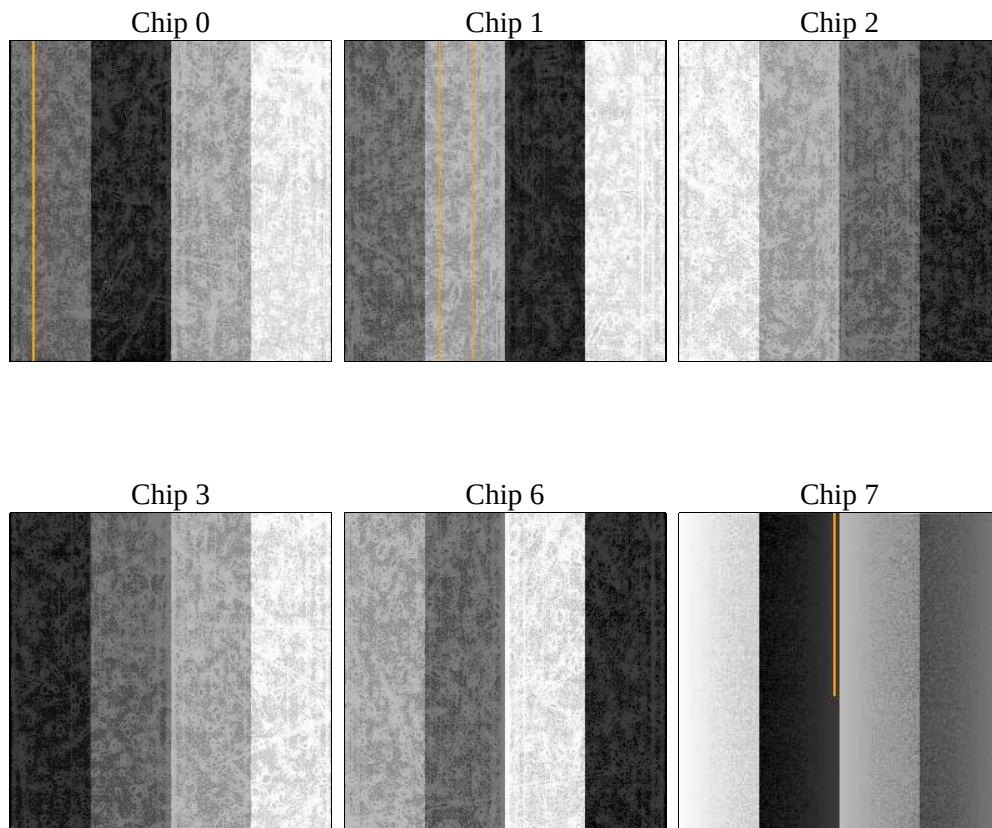
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	19868.759275913	Sum of GTIs [s]
caldsver	4.7.6	 	ontime0	19872.000296116	Sum of GTIs [s]
date	2017-09-10T22:31:10	Date and time of file creation	ontime1	19872.000296116	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	19868.759305835	Sum of GTIs [s]
			ontime3	19868.759275913	Sum of GTIs [s]
			ontime6	19872.000296116	Sum of GTIs [s]
			ontime7	19872.000296116	Sum of GTIs [s]
			l1events	803805	Number of level 1 events

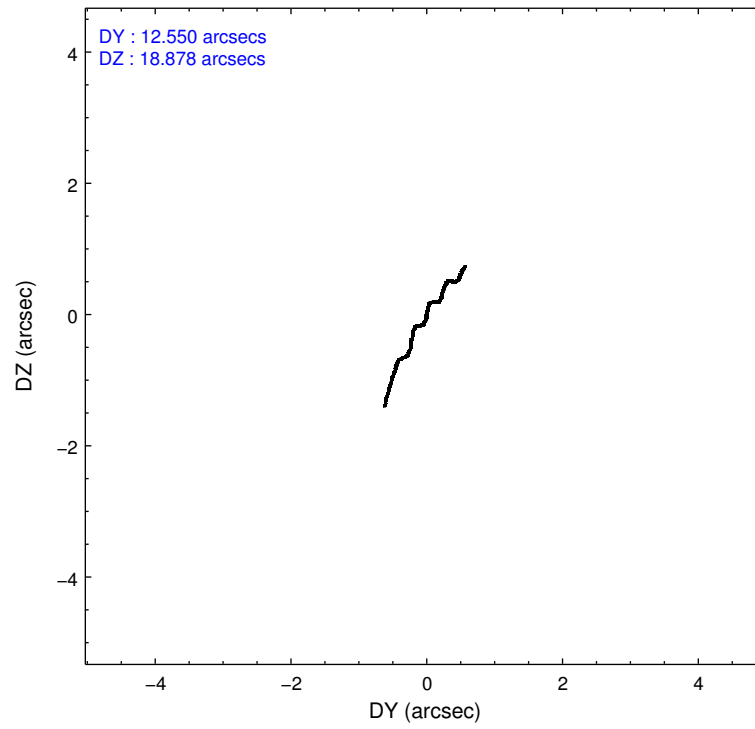
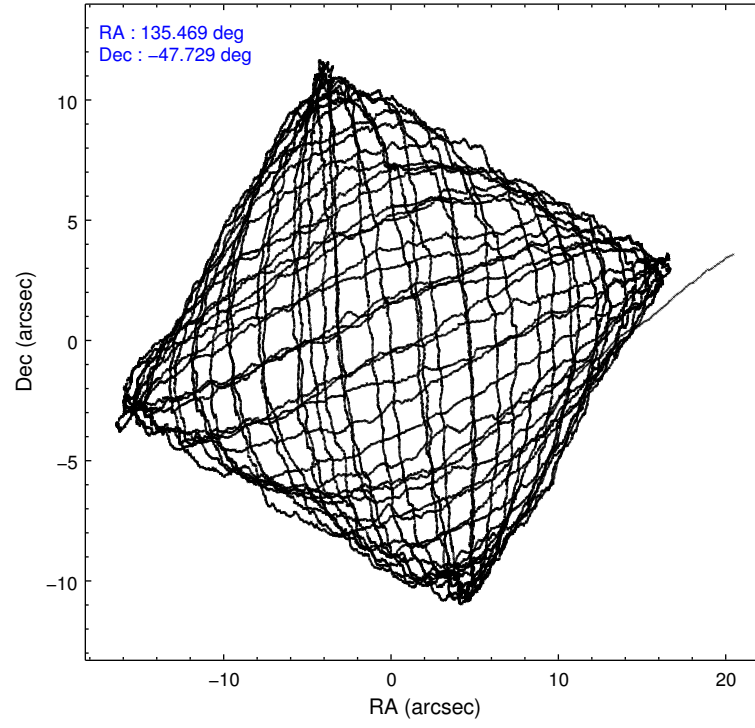
2.1.4 Events

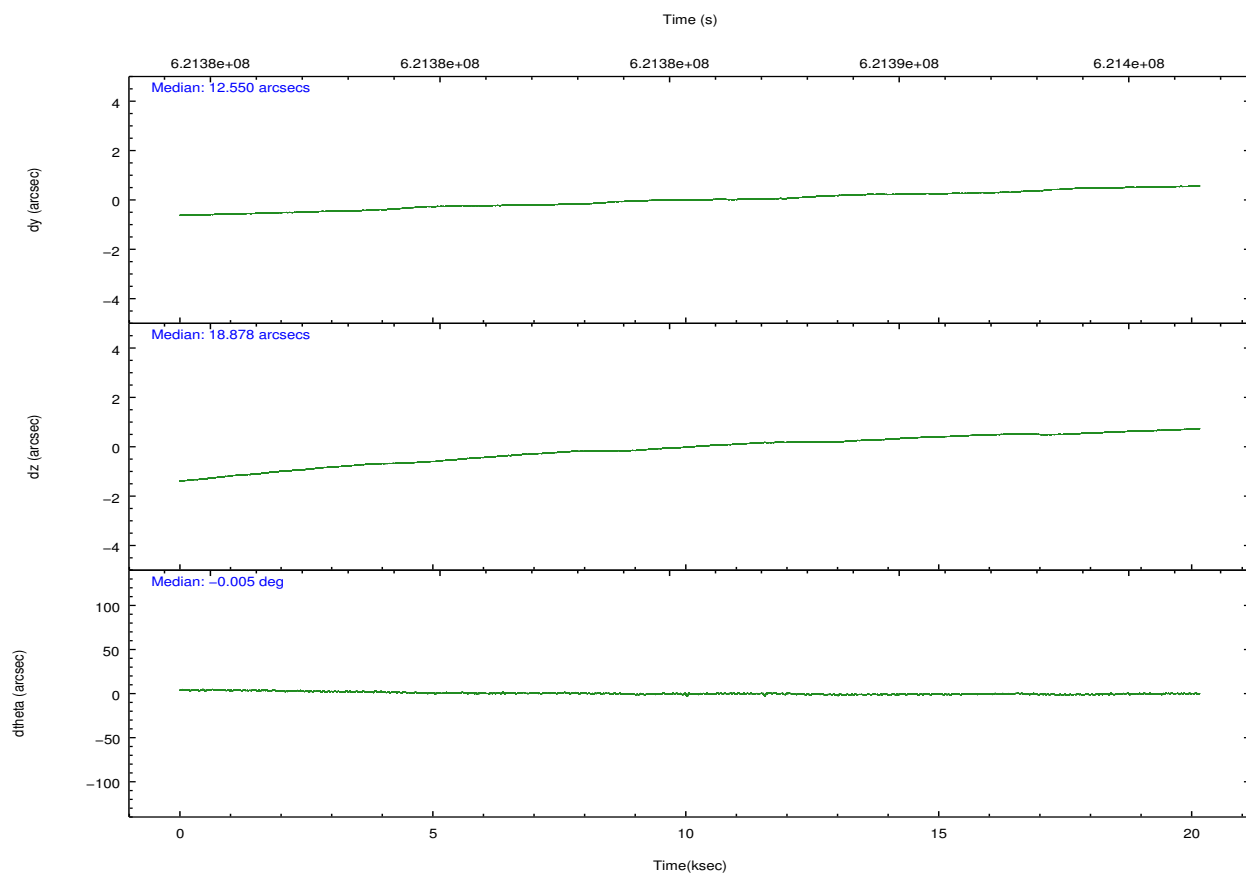
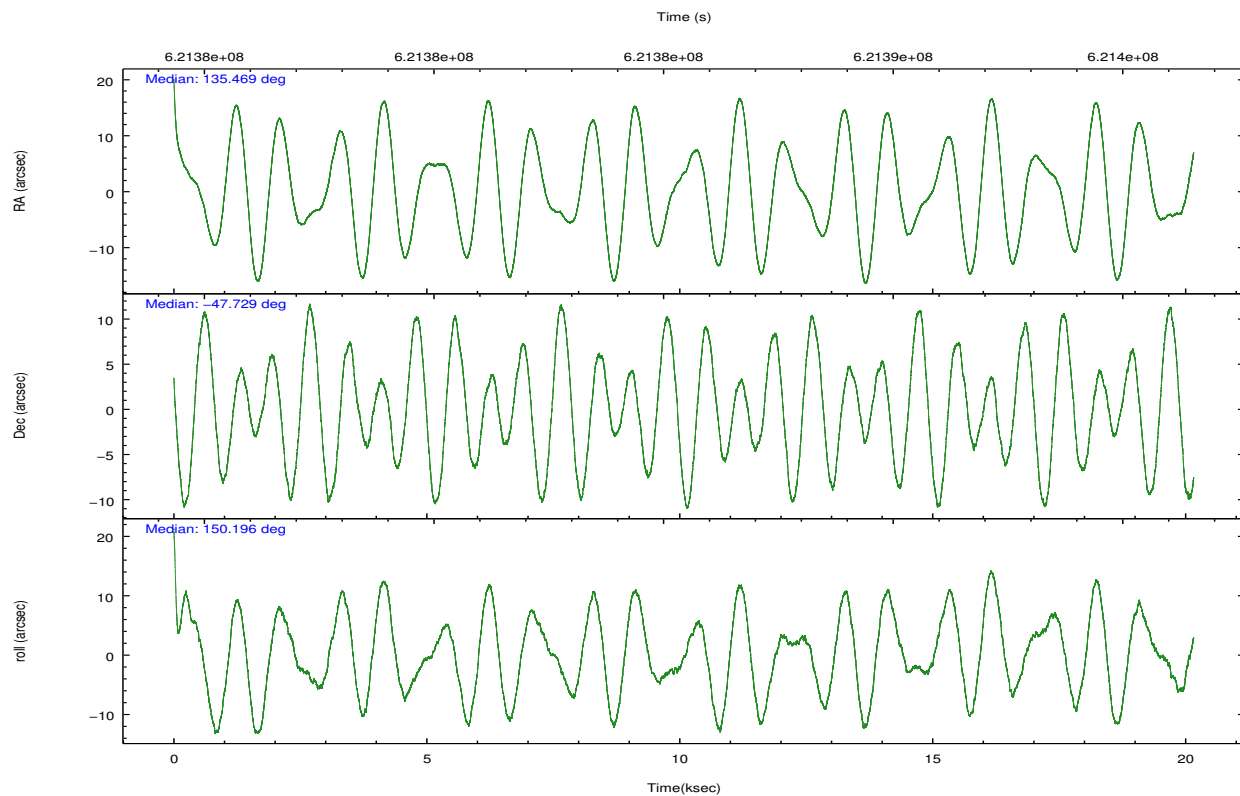
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	115602	126170	138353	127184	134270	162226	grade 0 events	5426	11207	11621	9796	5220	6229
rejected events	100661	104313	116953	108534	118997	91446		4%	8%	8%	7%	3%	3%
rejected %	87%	82%	84%	85%	88%	56%	grade 1 events	61	87	112	102	85	260
								0%	0%	0%	0%	0%	0%
							grade 2 events	3883	4228	4014	3135	3778	15565
								3%	3%	2%	2%	2%	9%
							grade 3 events	1392	1476	1394	1487	1479	5603
								1%	1%	1%	1%	1%	3%
							grade 4 events	1383	1463	1487	1441	1370	5641
								1%	1%	1%	1%	1%	3%
							grade 5 events	5251	5578	5000	5995	6080	16204
								4%	4%	3%	4%	4%	9%
							grade 6 events	2857	3486	2888	2792	3427	37753
								2%	2%	2%	2%	2%	23%
							grade 7 events	95349	98645	111837	102436	112831	74971
								82%	78%	80%	80%	84%	46%

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	135.509815	135.468785018113	CCD I2 on	Y	Y
[deg] Pointing Dec	-47.729147	-47.72937451863	CCD I3 on	Y	Y
[deg] Pointing Roll	150.022680	150.2010110123025	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)	621375528.184000	621374496.06612	CCD S5 on	N	N
Observation start date	2017-09-09T20:17:39	2017-09-09T20:01:36	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	621395528.184000	621396622.22992	On-chip summing requested	N	N
Observation end date	2017-09-10T01:50:59	2017-09-10T02:10:22	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



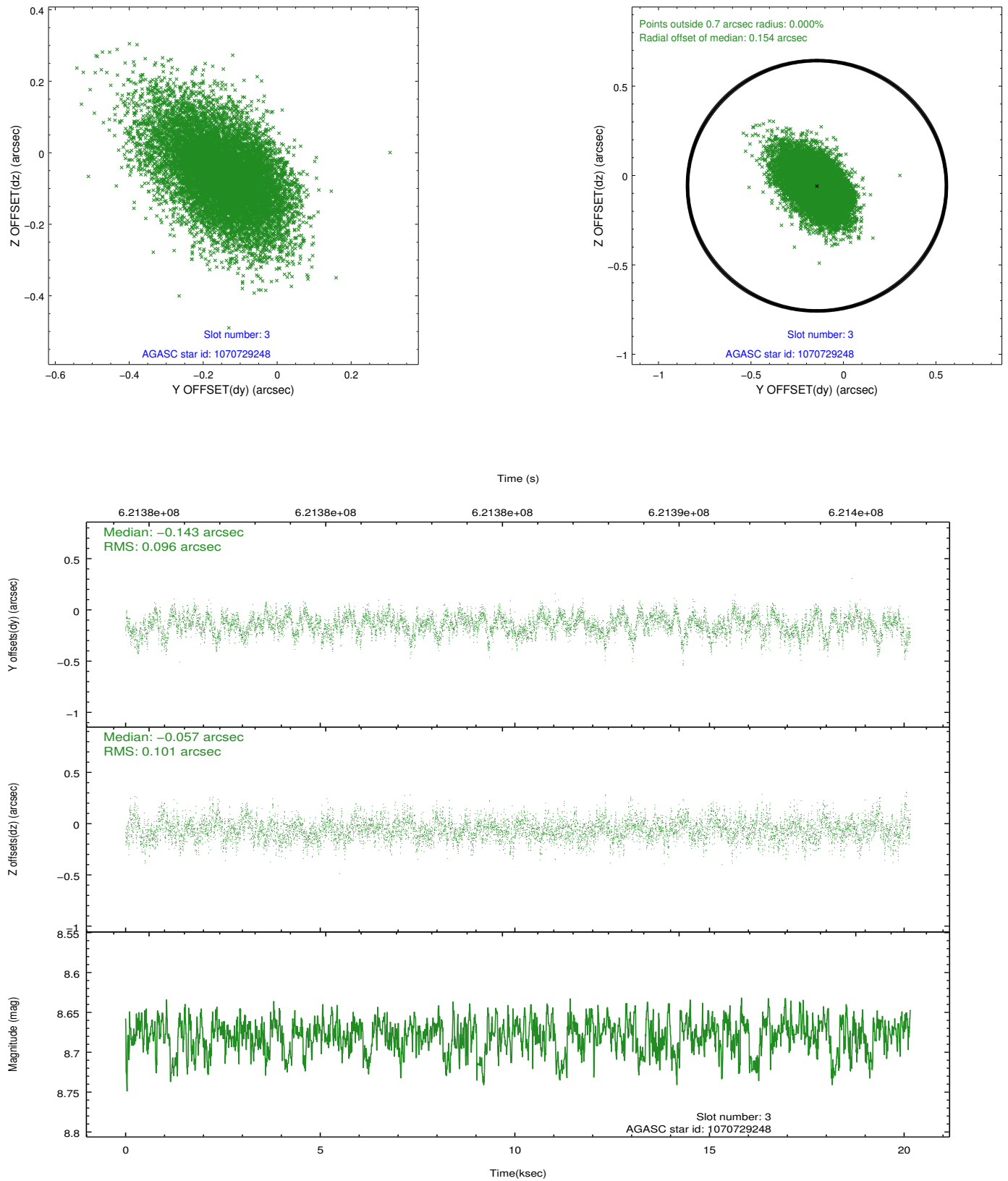


Slot Statistics

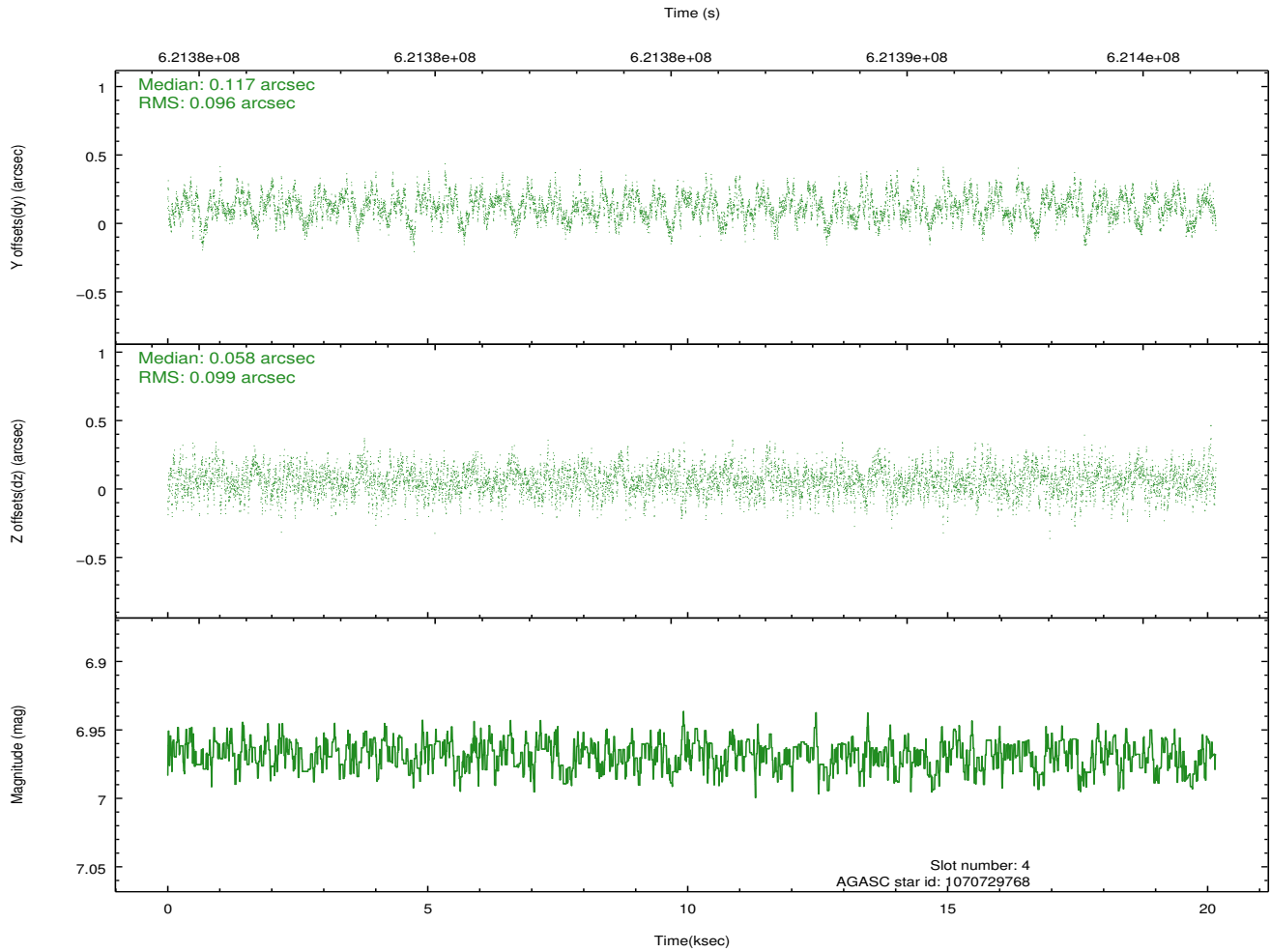
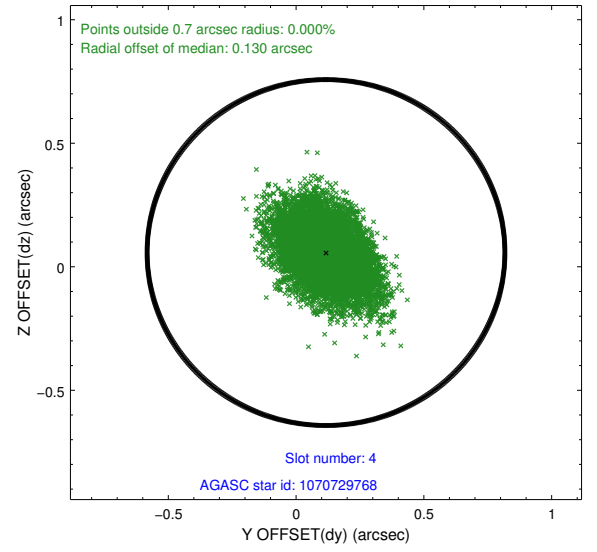
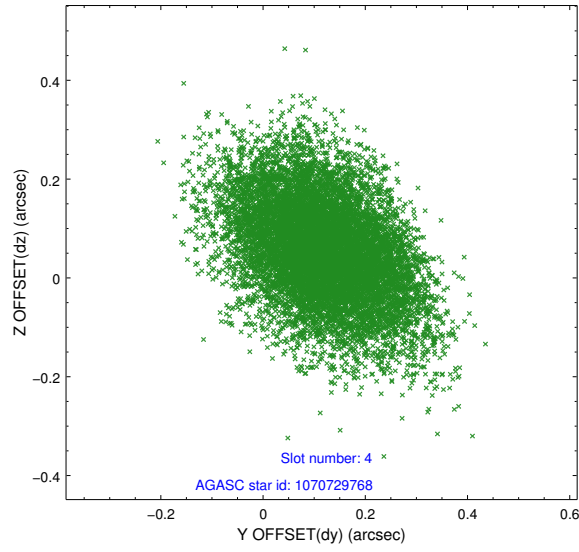
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.15	4917	0.059	-0.000	0.011	0.029	0.000000	0.000000	927.10	-842.43
1	FID		ACIS-I-5	7.16	4917	-0.319	0.037	0.008	0.014	0.000000	0.000000	-1821.38	1054.87
2	FID		ACIS-I-6	7.16	4916	0.169	0.034	0.011	0.021	0.000000	0.000000	392.42	1699.69
3	GUIDE	used	1070729248	8.68	9828	-0.143	-0.057	0.145	0.250	135.048995	-47.118313	2075.56	-1337.85
4	GUIDE	used	1070729768	6.97	9835	0.117	0.058	0.146	0.240	136.024083	-47.441445	-568.28	-1519.22
5	GUIDE	used	1070731648	8.01	9832	0.039	0.037	0.141	0.233	135.285038	-47.251382	1336.05	-1214.77
6	GUIDE	used	1070727560	9.02	9830	0.017	-0.055	0.129	0.230	136.063916	-48.196937	-1994.07	798.09
7	GUIDE	used	1070728952	8.98	9825	-0.025	0.023	0.159	0.264	136.192749	-48.216524	-2299.00	707.61

2.4 Star Slots

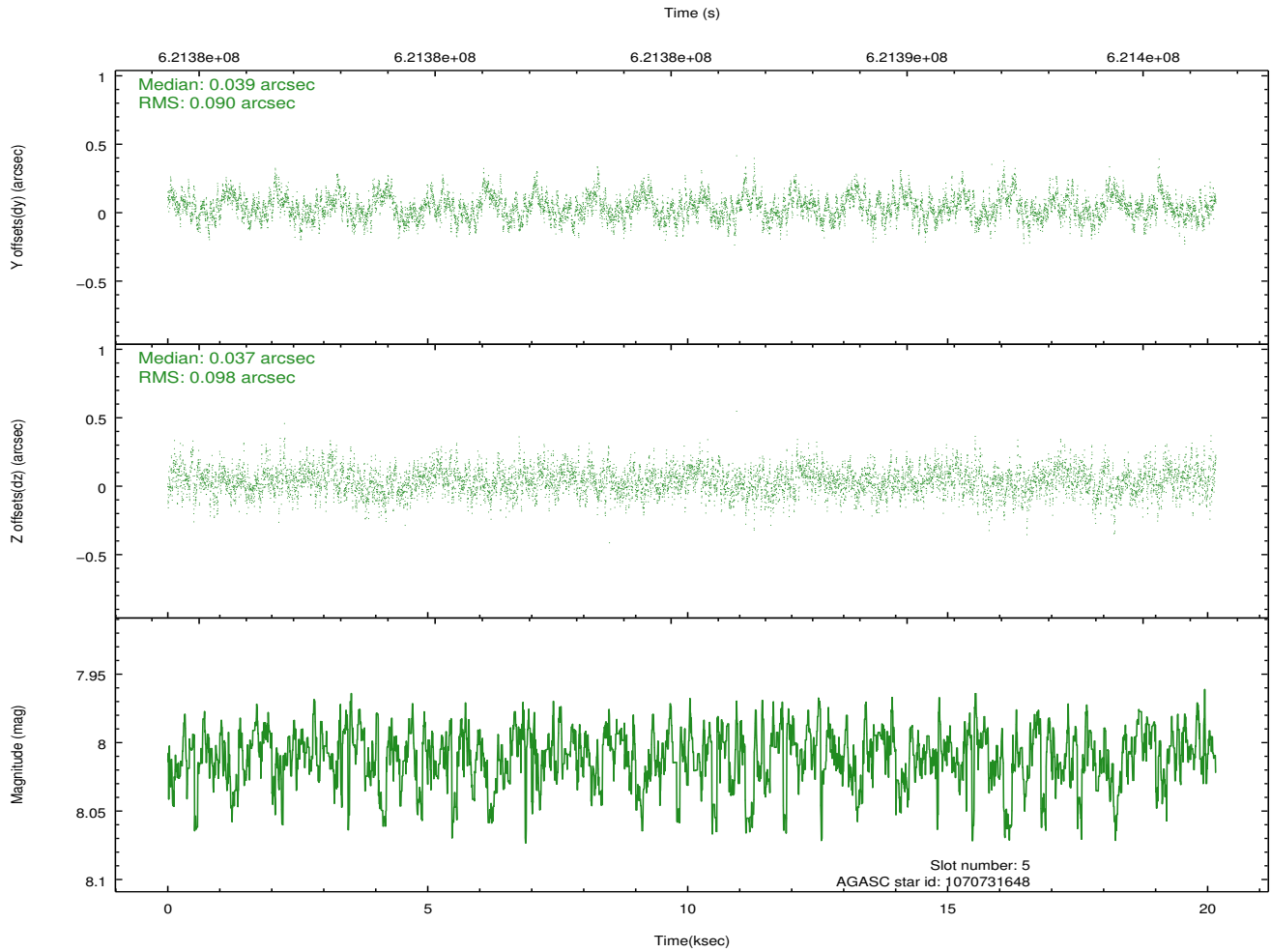
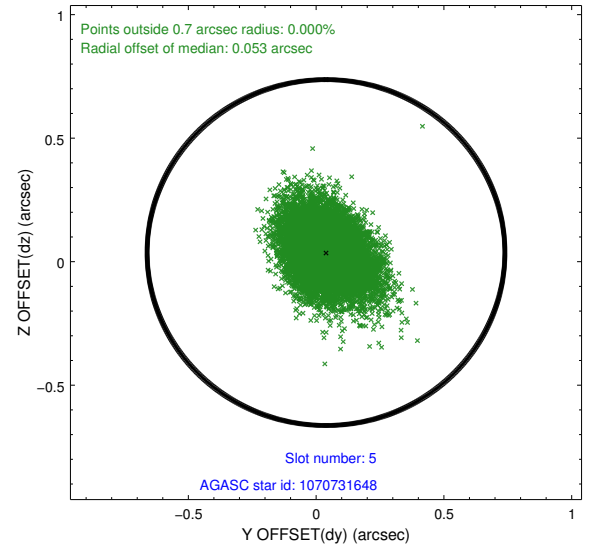
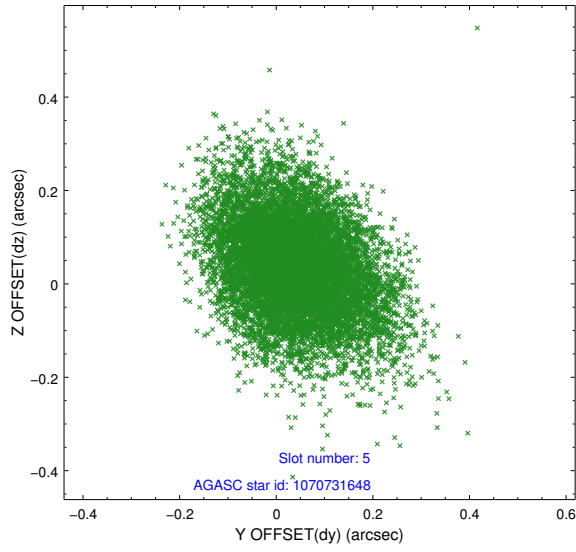
2.4.1 Slot 3



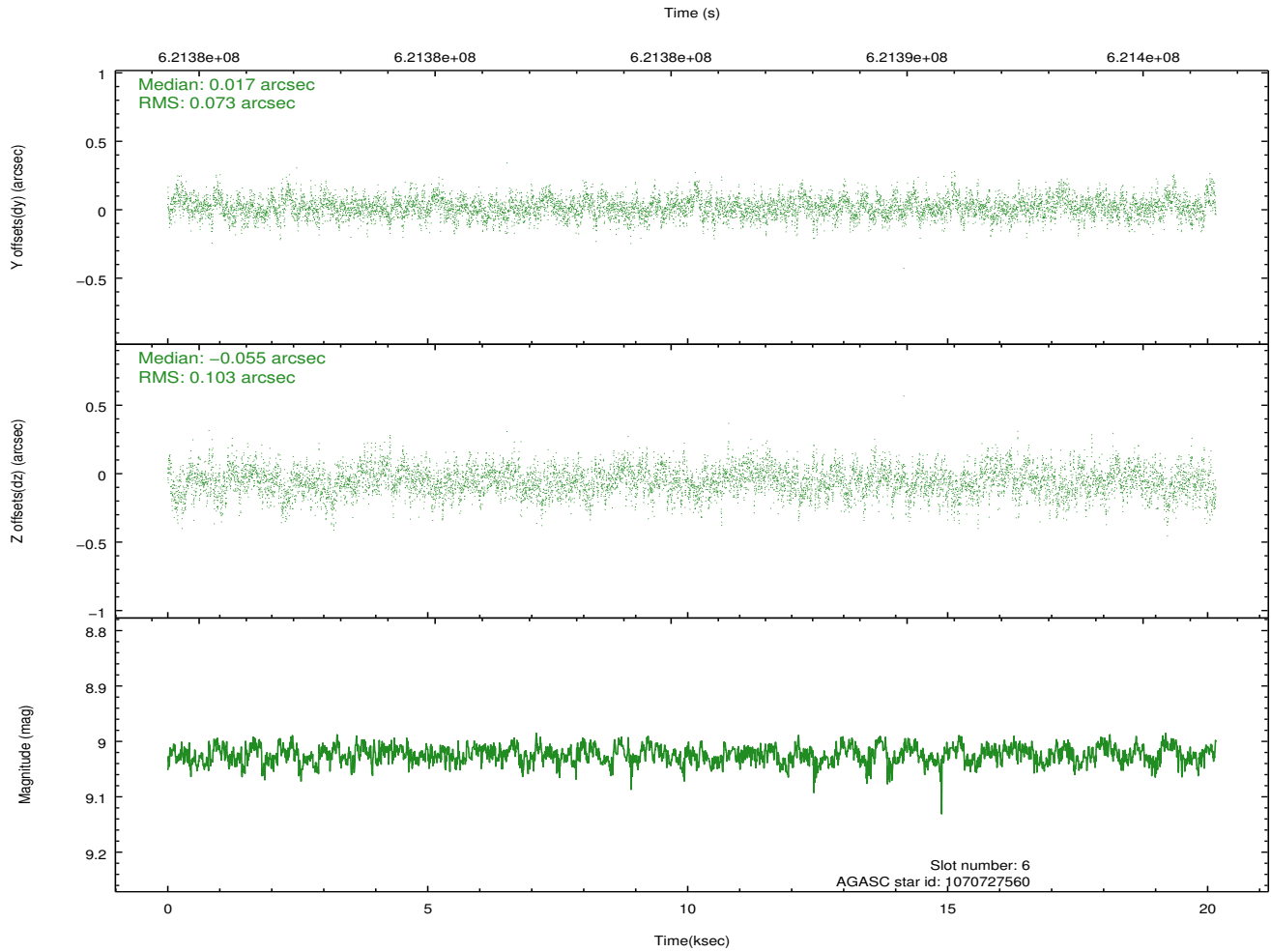
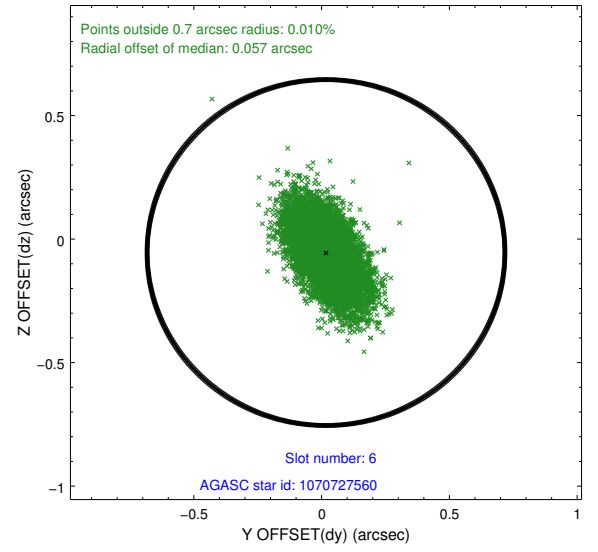
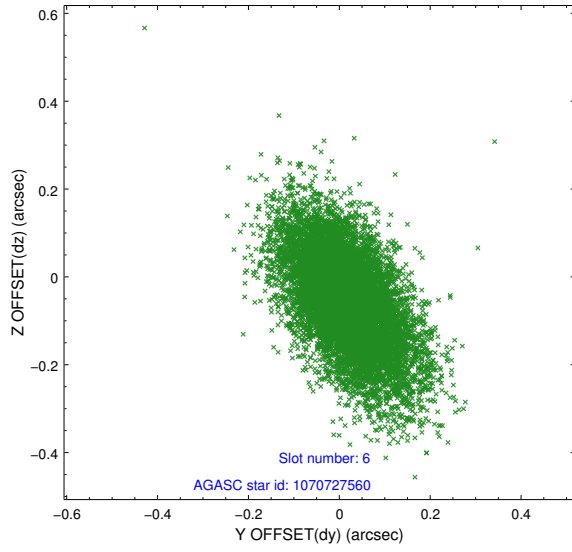
2.4.2 Slot 4



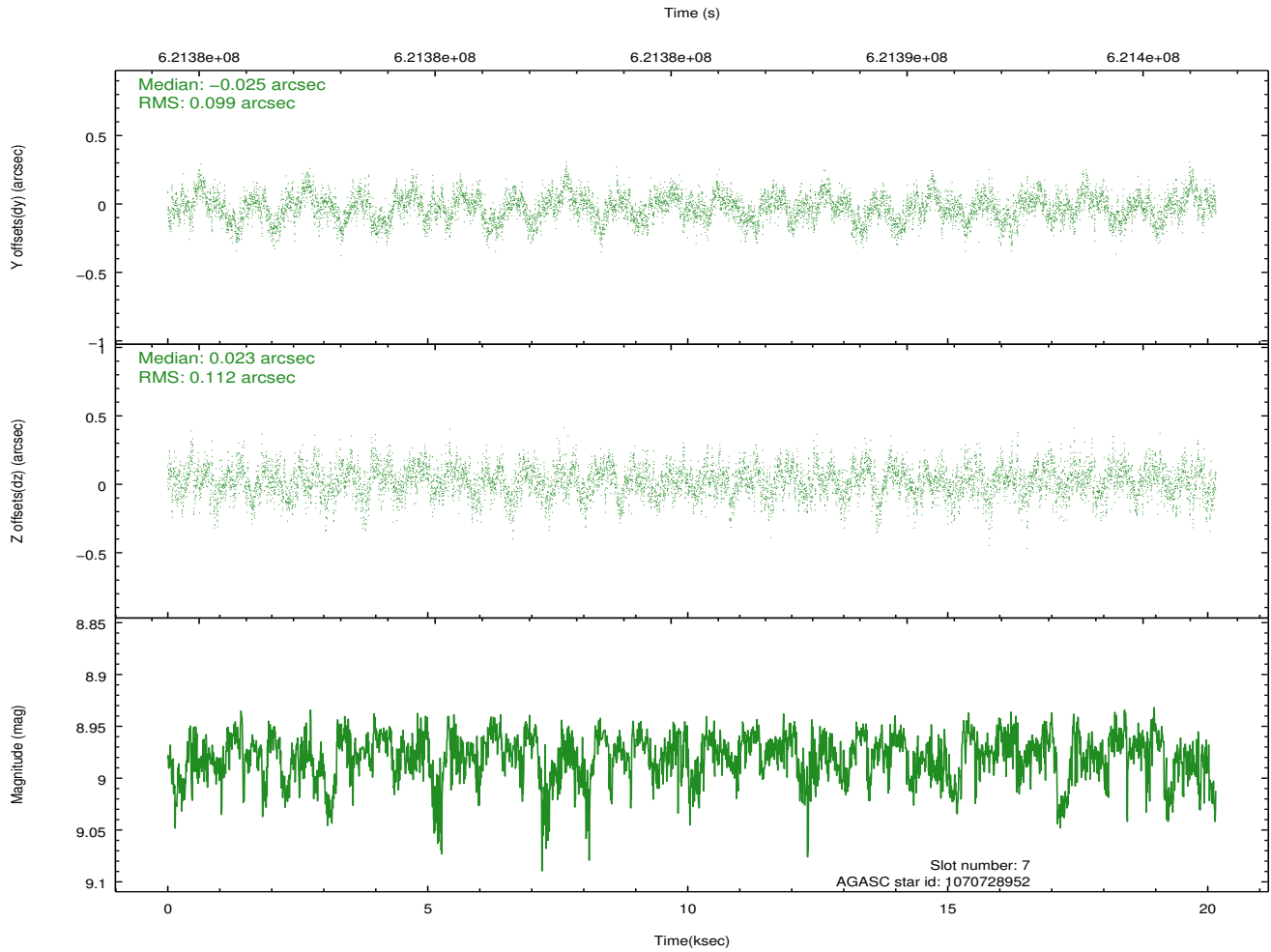
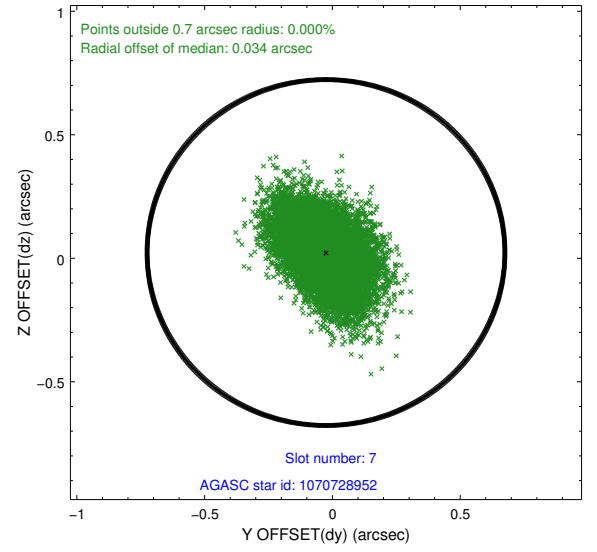
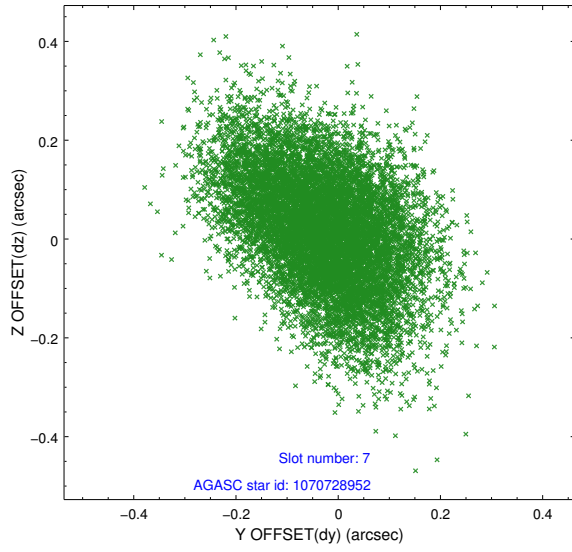
2.4.3 Slot 5



2.4.4 Slot 6

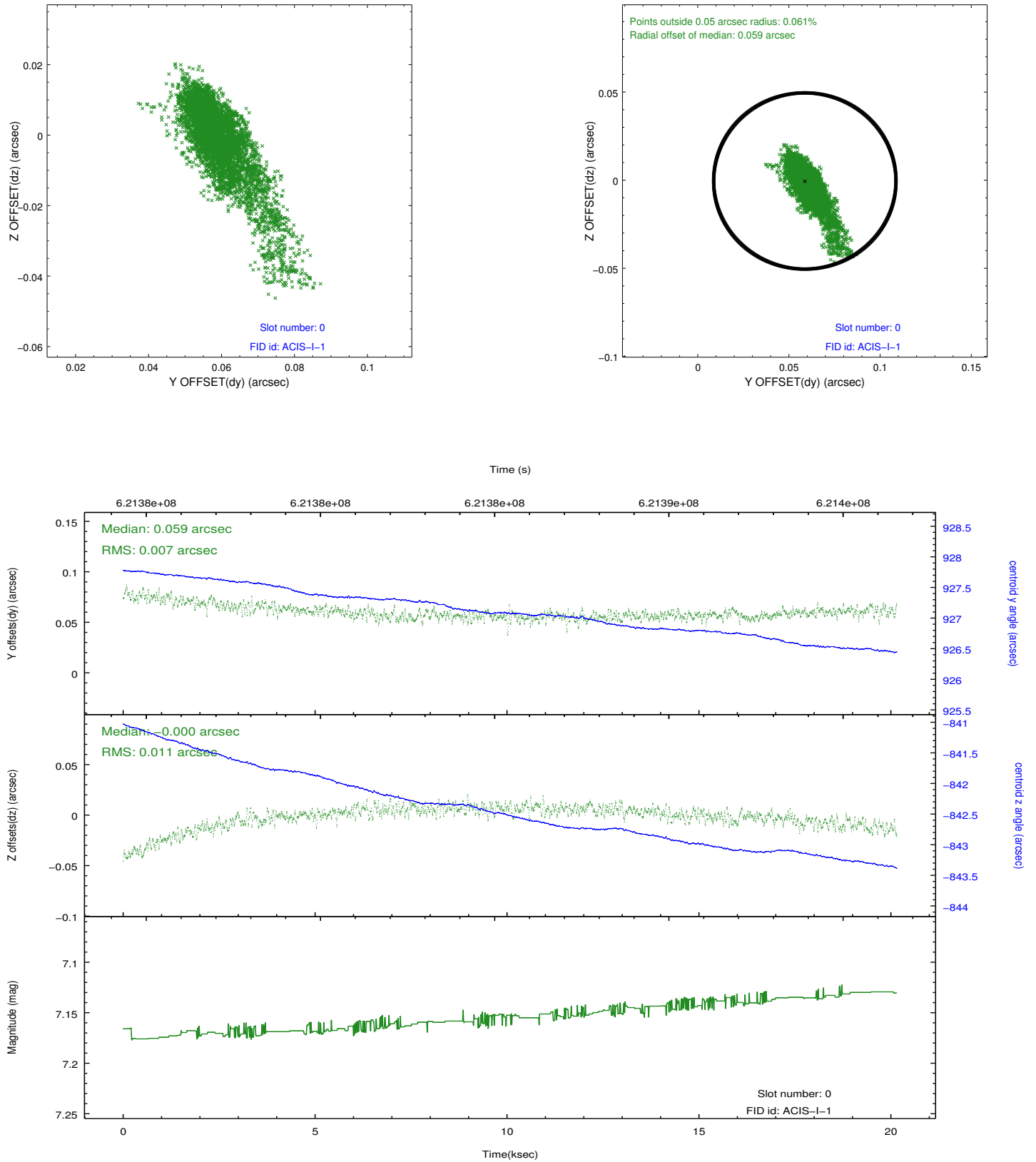


2.4.5 Slot 7

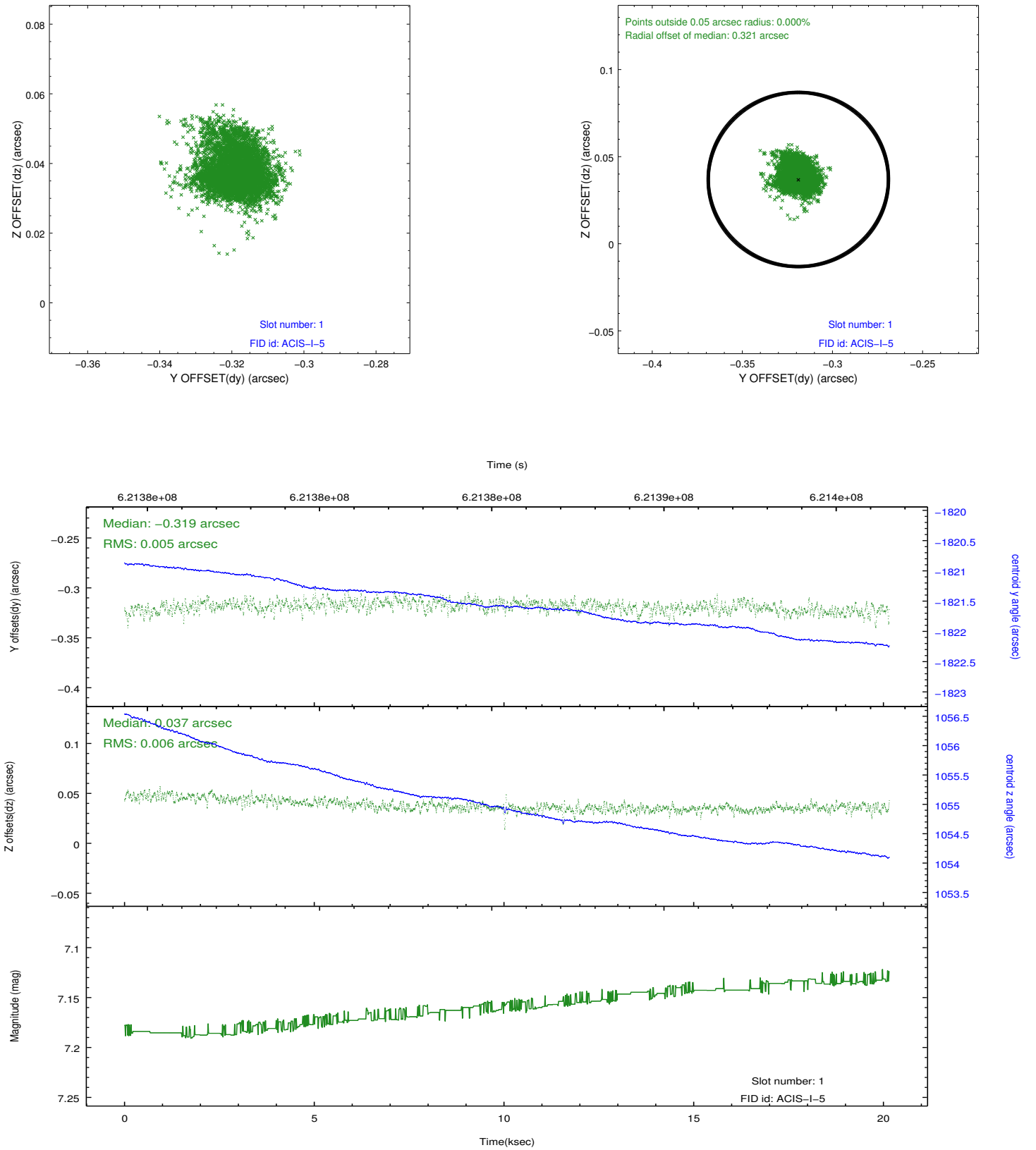


2.5 FID Slots

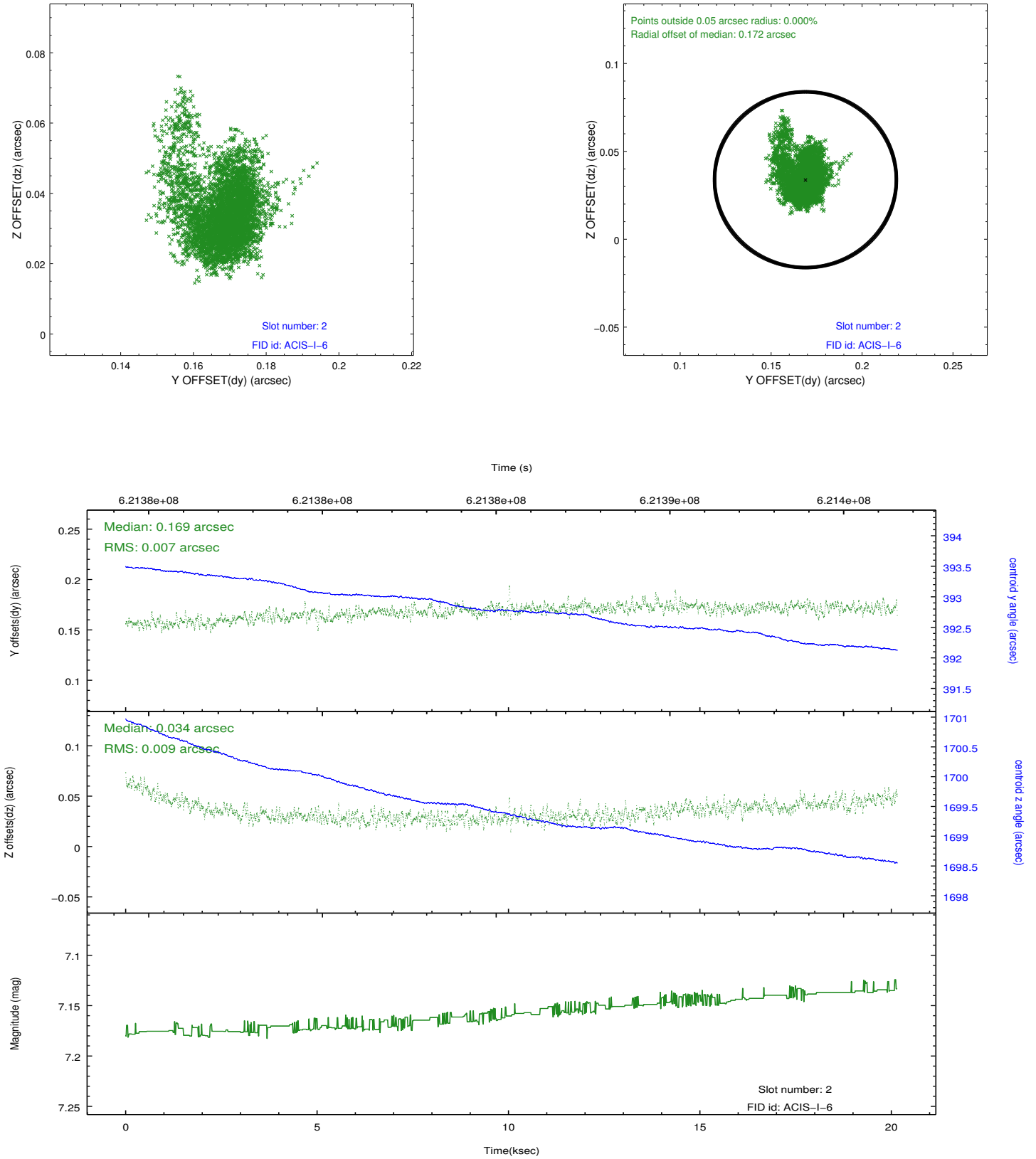
2.5.1 Slot 0



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)	2017.09.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.868759275913

A.2 Comments