

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19710 - L2 Version 1
Chandra X-Ray Center

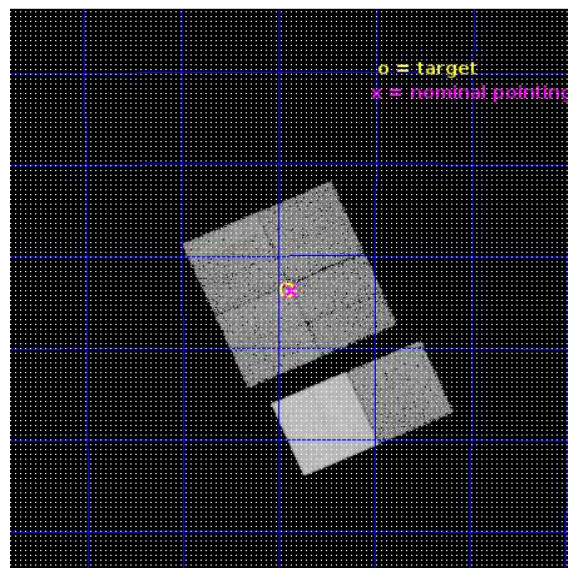
L2 Processing Date : Sep 4 2017

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

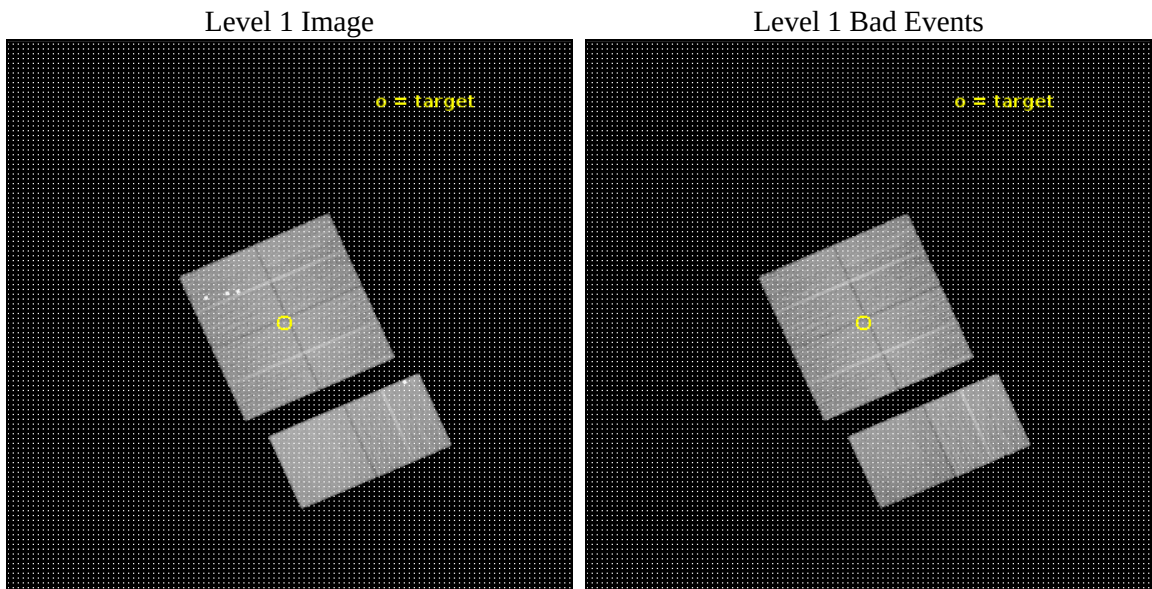
seq_num	201150	Sequence number
obs_id	19710	Observation id
title	IRAS 09002-4732: Star formation in a molecular cloud filament(GTO)	
observer	Gordon Garmire	Principal investigator
object	IRAS 09002-4732	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	135.479167	Observer's specified target RA [deg]
dec_targ	-47.729667	Observer's specified target Dec [deg]
ra_nom	135.46715289796	Nominal RA [deg]
dec_nom	-47.730122335654	Nominal Dec [deg]
roll_nom	156.19978492663	Nominal Roll [deg]
revision	1	Processing version of data
ontime	25955.200386763	Sum of GTIs [s]
livetime	25626.54001112	Livetime [s]
ontime0	25955.200386763	Sum of GTIs [s]
ontime1	25951.959356427	Sum of GTIs [s]
ontime2	25955.200386763	Sum of GTIs [s]
ontime3	25955.200386763	Sum of GTIs [s]
ontime6	25948.718336582	Sum of GTIs [s]
ontime7	25955.200386763	Sum of GTIs [s]
l2events	182839	Number of level 2 events



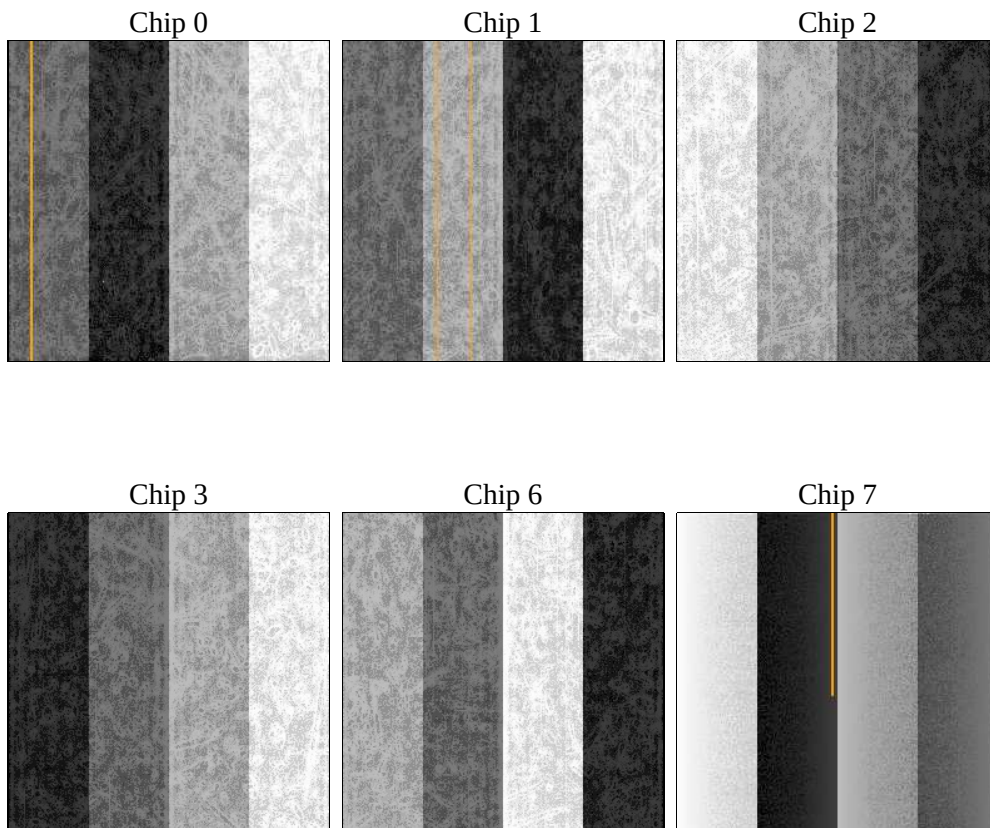
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	26000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	25955.200386763	Sum of GTIs [s]
caldsver	4.7.6	 	ontime0	25955.200386763	Sum of GTIs [s]
date	2017-09-05T01:43:53	Date and time of file creation	ontime1	25951.959356427	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	25955.200386763	Sum of GTIs [s]
			ontime3	25955.200386763	Sum of GTIs [s]
			ontime6	25948.718336582	Sum of GTIs [s]
			ontime7	25955.200386763	Sum of GTIs [s]
			l1events	1150924	Number of level 1 events

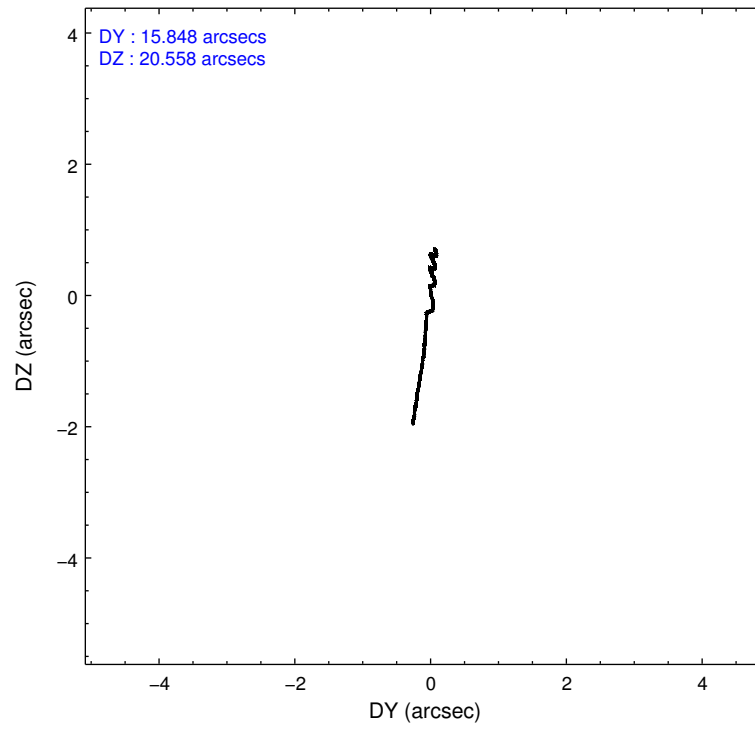
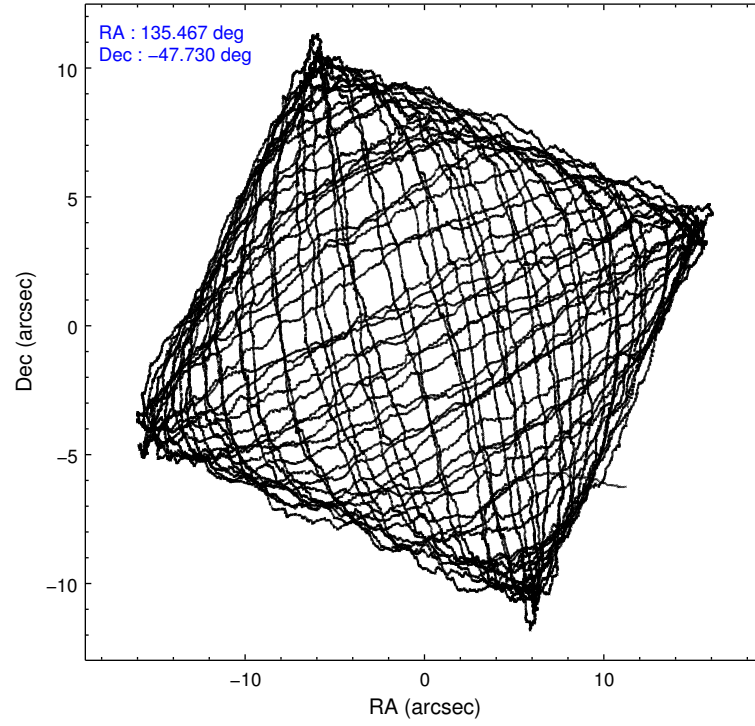
2.1.4 Events

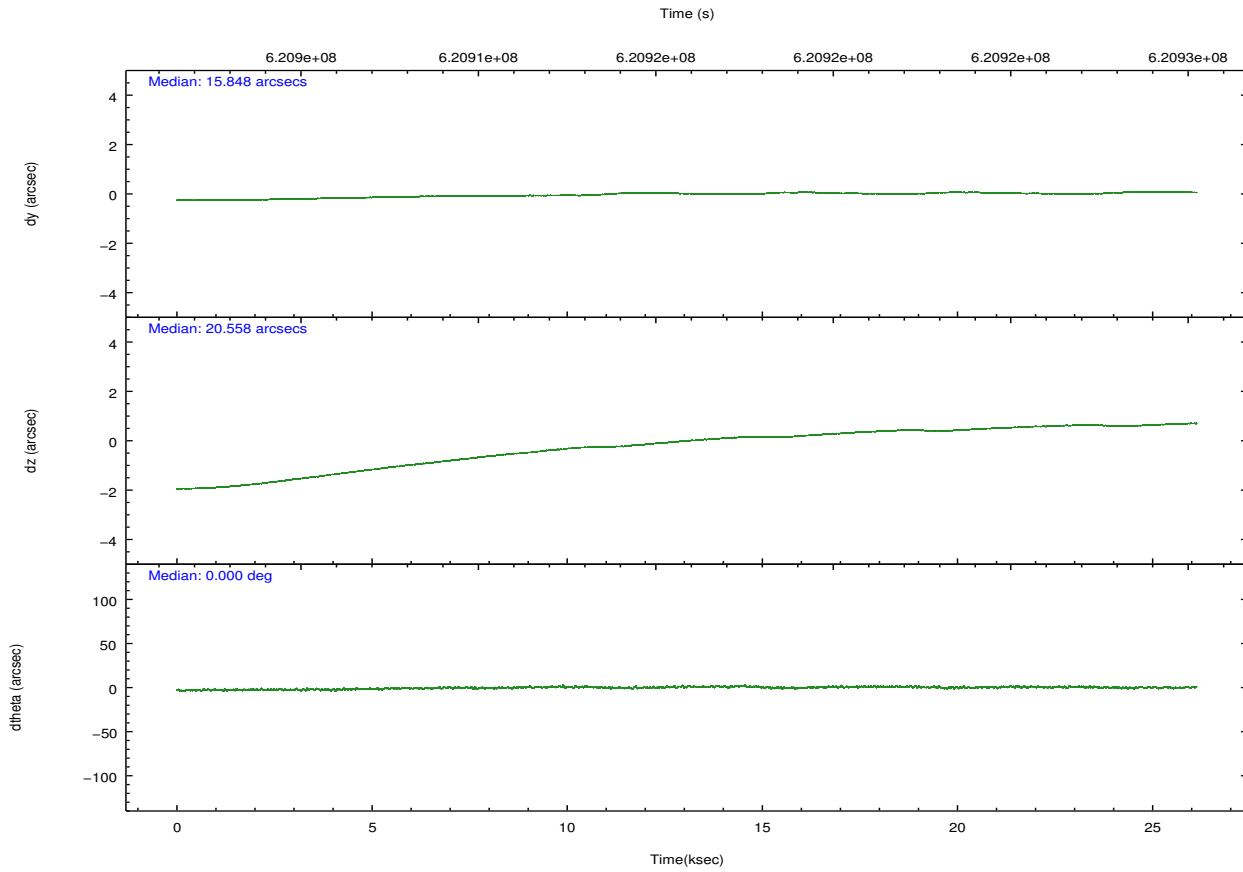
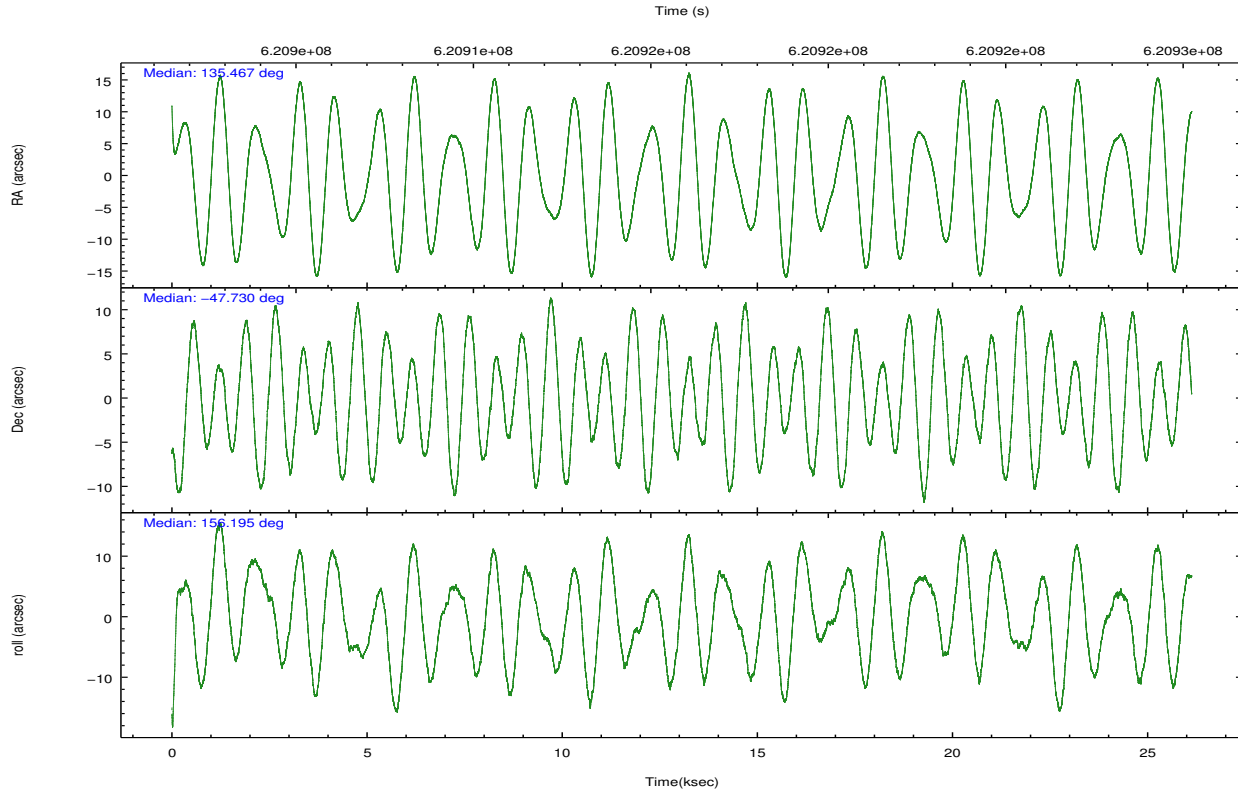
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	161799	192638	184703	180251	200294	231239	grade 0 events	6725	30158	6944	8021	7736	8432
rejected events	142329	147715	165560	159975	172077	131559		4%	15%	3%	4%	3%	3%
rejected %	87%	76%	89%	88%	85%	56%	grade 1 events	92	237	94	109	101	329
								0%	0%	0%	0%	0%	0%
							grade 2 events	4966	5742	4699	4202	11624	20864
								3%	2%	2%	2%	5%	9%
							grade 3 events	1949	2041	1833	2034	1889	7811
								1%	1%	0%	1%	0%	3%
							grade 4 events	1828	1988	1890	1956	1898	7805
								1%	1%	1%	1%	0%	3%
							grade 5 events	7083	7572	6699	8375	8327	22794
								4%	3%	3%	4%	4%	9%
							grade 6 events	4006	4999	3780	4064	5072	54782
								2%	2%	2%	2%	2%	23%
							grade 7 events	135150	139901	158764	151490	163647	108422
								83%	72%	85%	84%	81%	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	135.507918	135.4671528979621	CCD I2 on	Y	Y
[deg] Pointing Dec	-47.727038	-47.73012233565387	CCD I3 on	Y	Y
[deg] Pointing Roll	156.021276	156.1997849266328	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)	620902961.184000	620901821.38849	CCD S5 on	N	N
Observation start date	2017-09-04T09:01:32	2017-09-04T08:43:41	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	620928961.184000	620930054.50264	On-chip summing requested	N	N
Observation end date	2017-09-04T16:14:52	2017-09-04T16:34:14	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



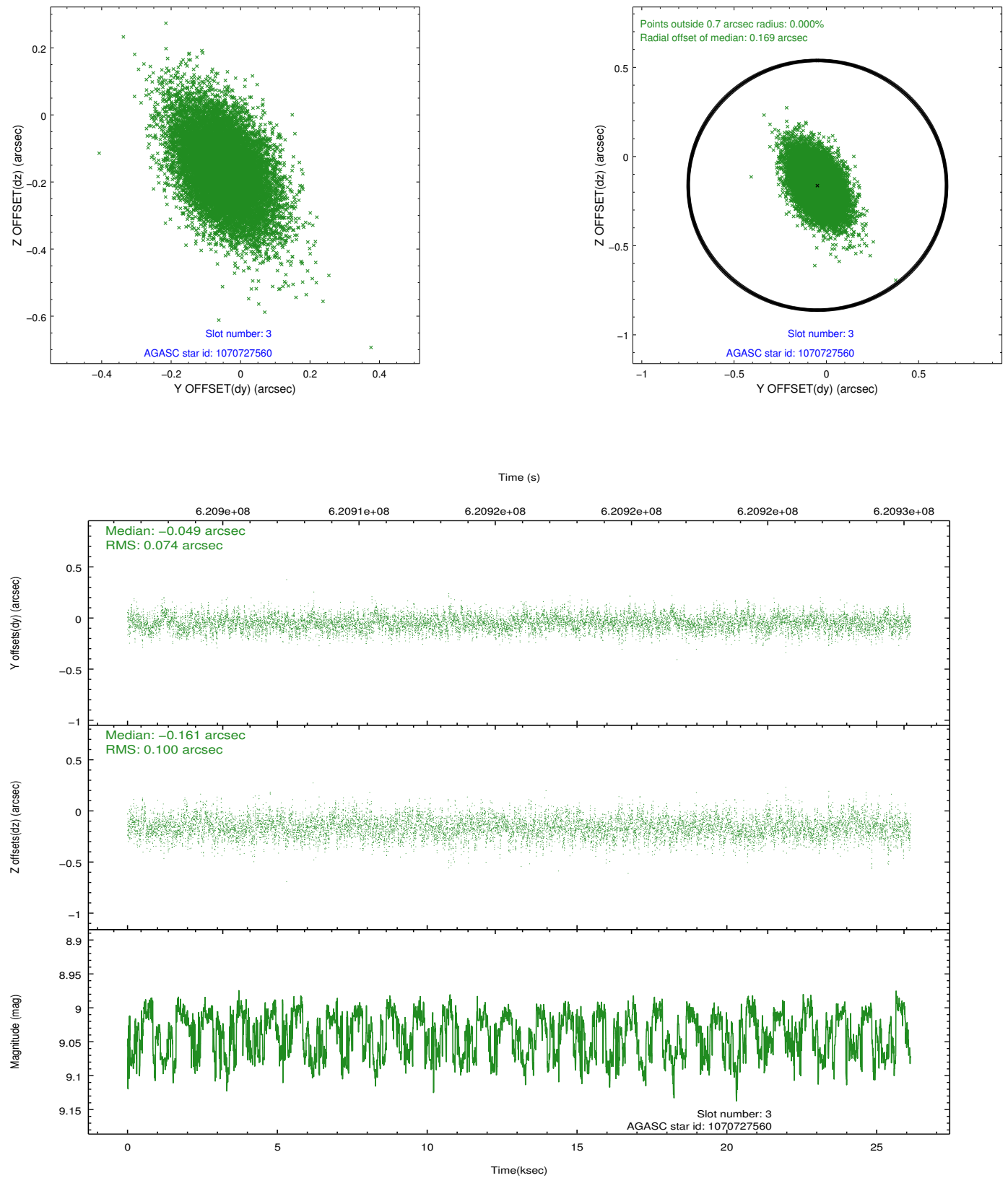


Slot Statistics

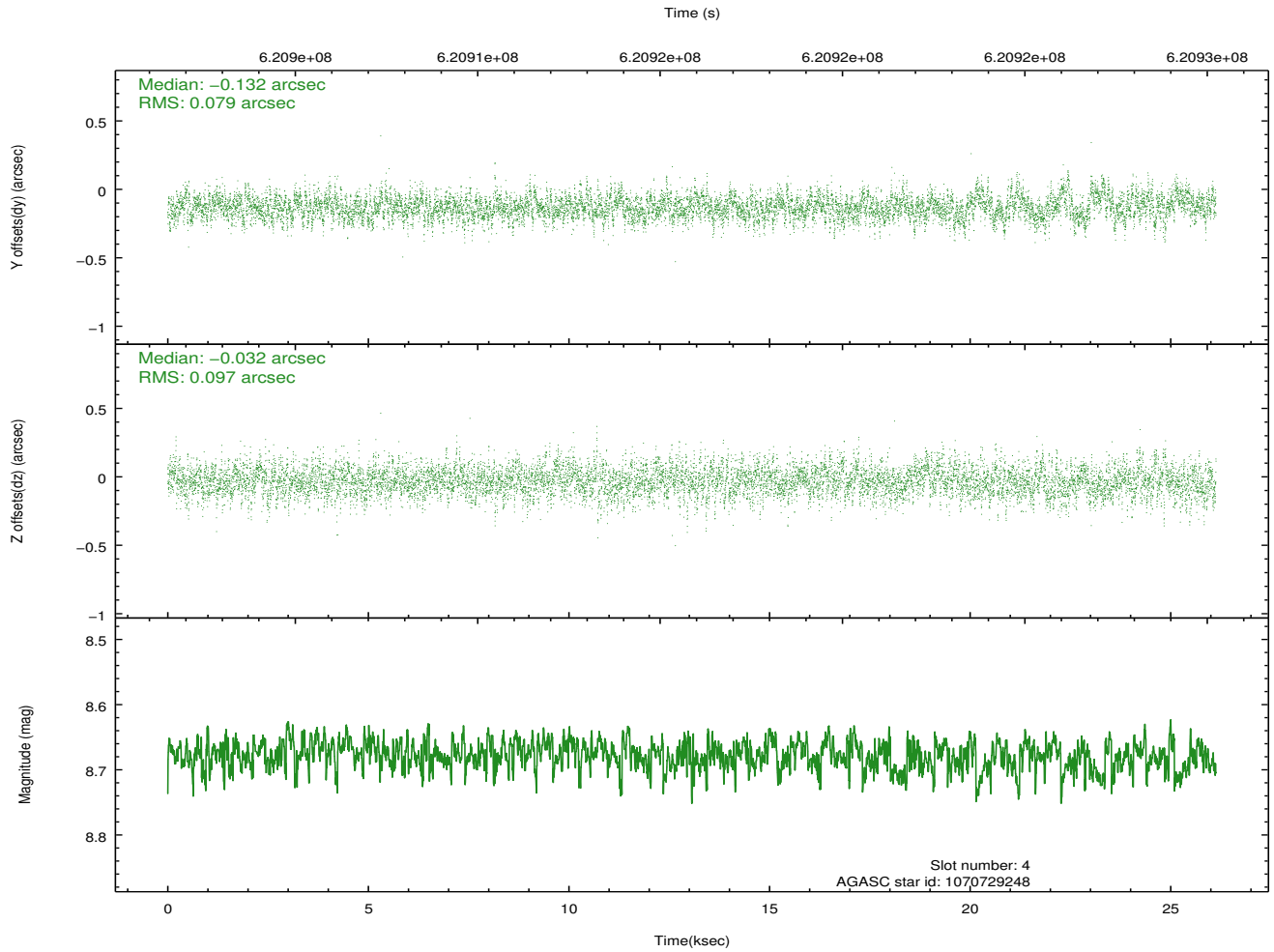
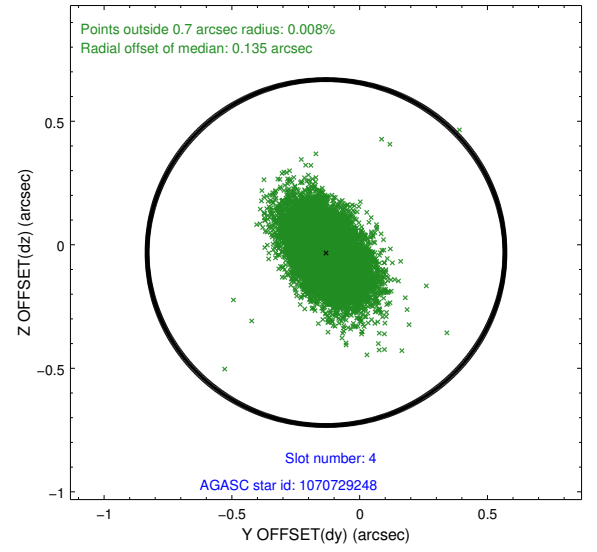
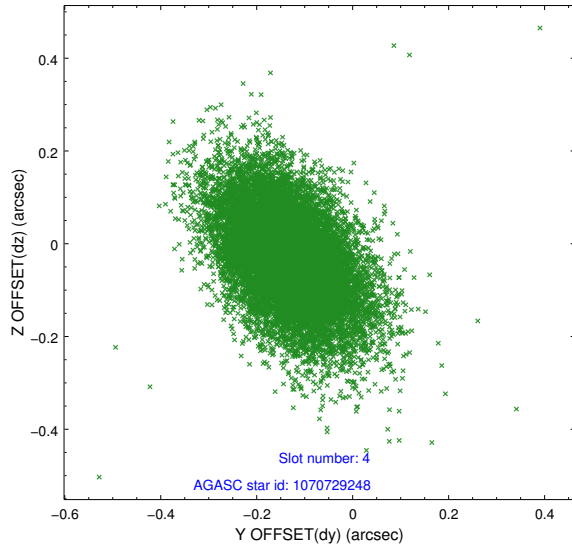
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.23	6373	0.094	0.011	0.019	0.060	0.000000	0.000000	923.69	-844.04
1	FID		ACIS-I-2	7.13	6372	-0.190	-0.055	0.017	0.043	0.000000	0.000000	-770.63	-850.56
2	FID		ACIS-I-6	7.24	6372	0.001	0.107	0.014	0.036	0.000000	0.000000	389.28	1697.82
3	GUIDE	used	1070727560	9.04	12740	-0.049	-0.161	0.127	0.224	136.063916	-48.196937	-1907.33	1007.51
4	GUIDE	used	1070729248	8.68	12734	-0.132	-0.032	0.128	0.224	135.048995	-47.118313	1916.81	-1542.06
5	GUIDE	used	1070731648	7.99	12740	-0.008	0.008	0.128	0.221	135.285038	-47.251382	1194.50	-1342.44
6	GUIDE	used	1070728952	9.01	12737	-0.093	-0.081	0.137	0.241	136.192749	-48.216524	-2219.66	949.06
7	GUIDE	used	1070731224	8.52	12740	0.283	0.268	0.117	0.199	136.463878	-47.768563	-2179.69	-789.87

2.4 Star Slots

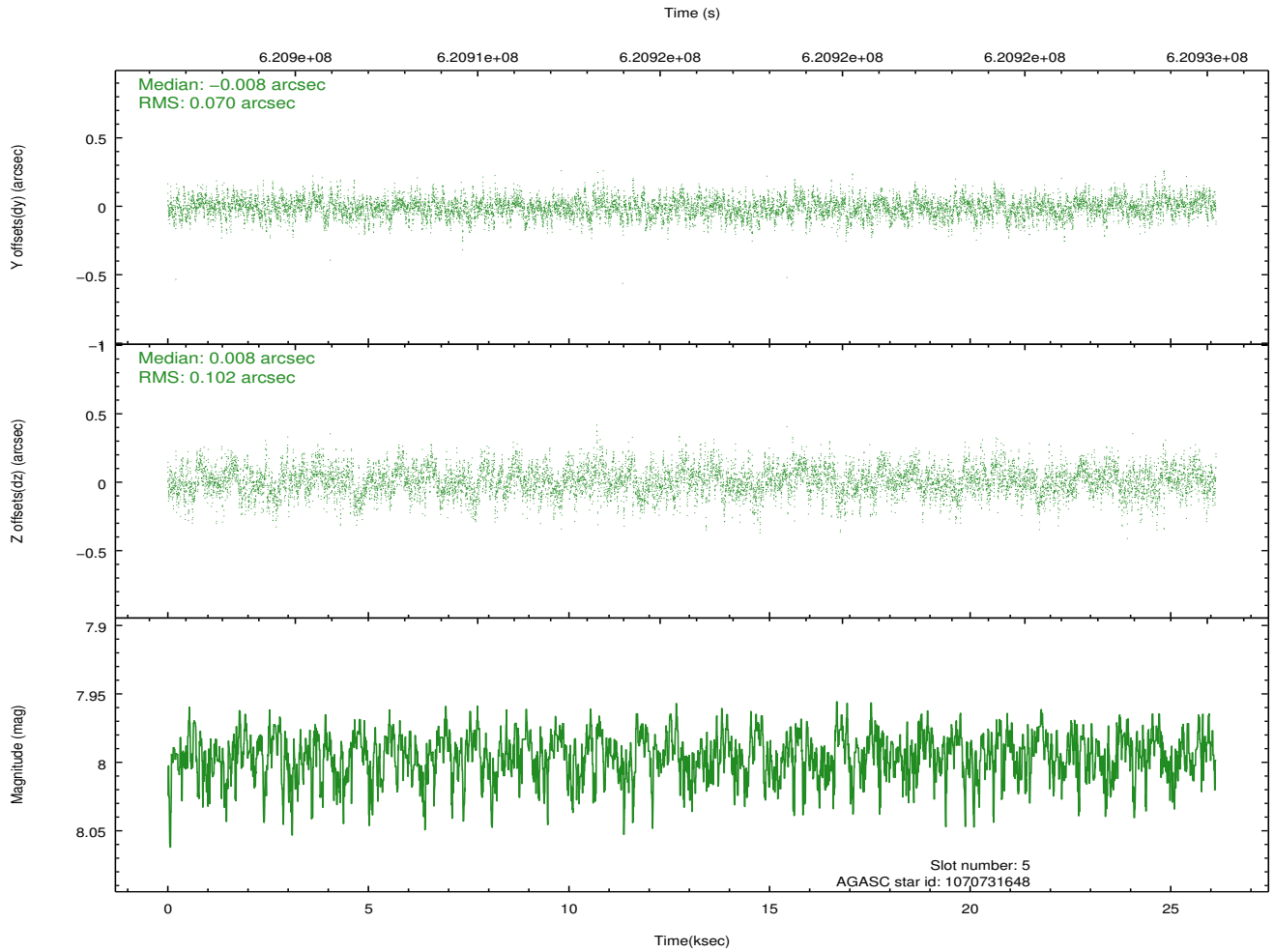
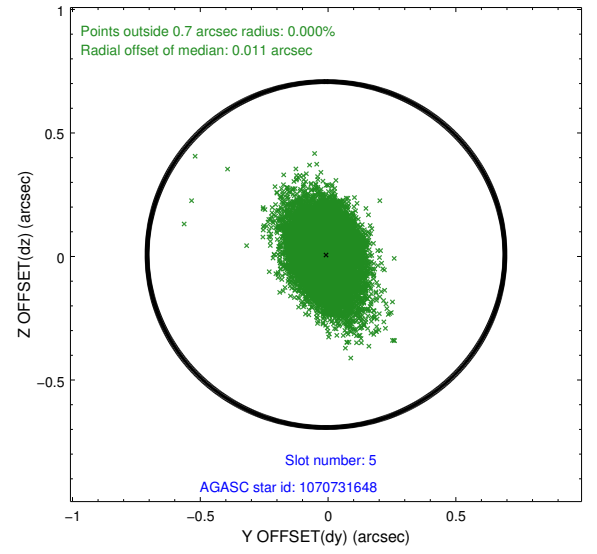
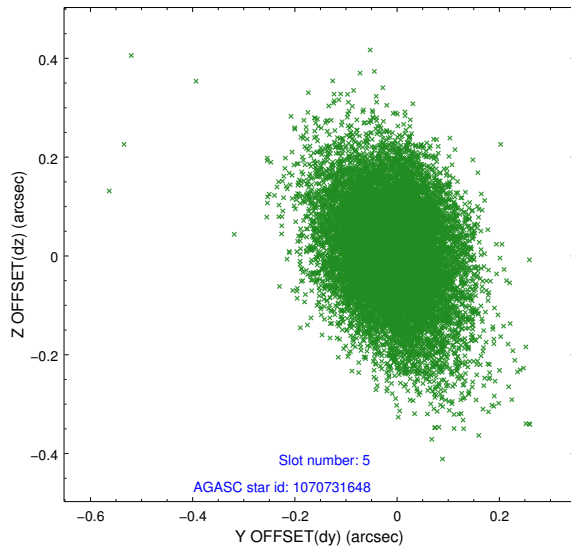
2.4.1 Slot 3



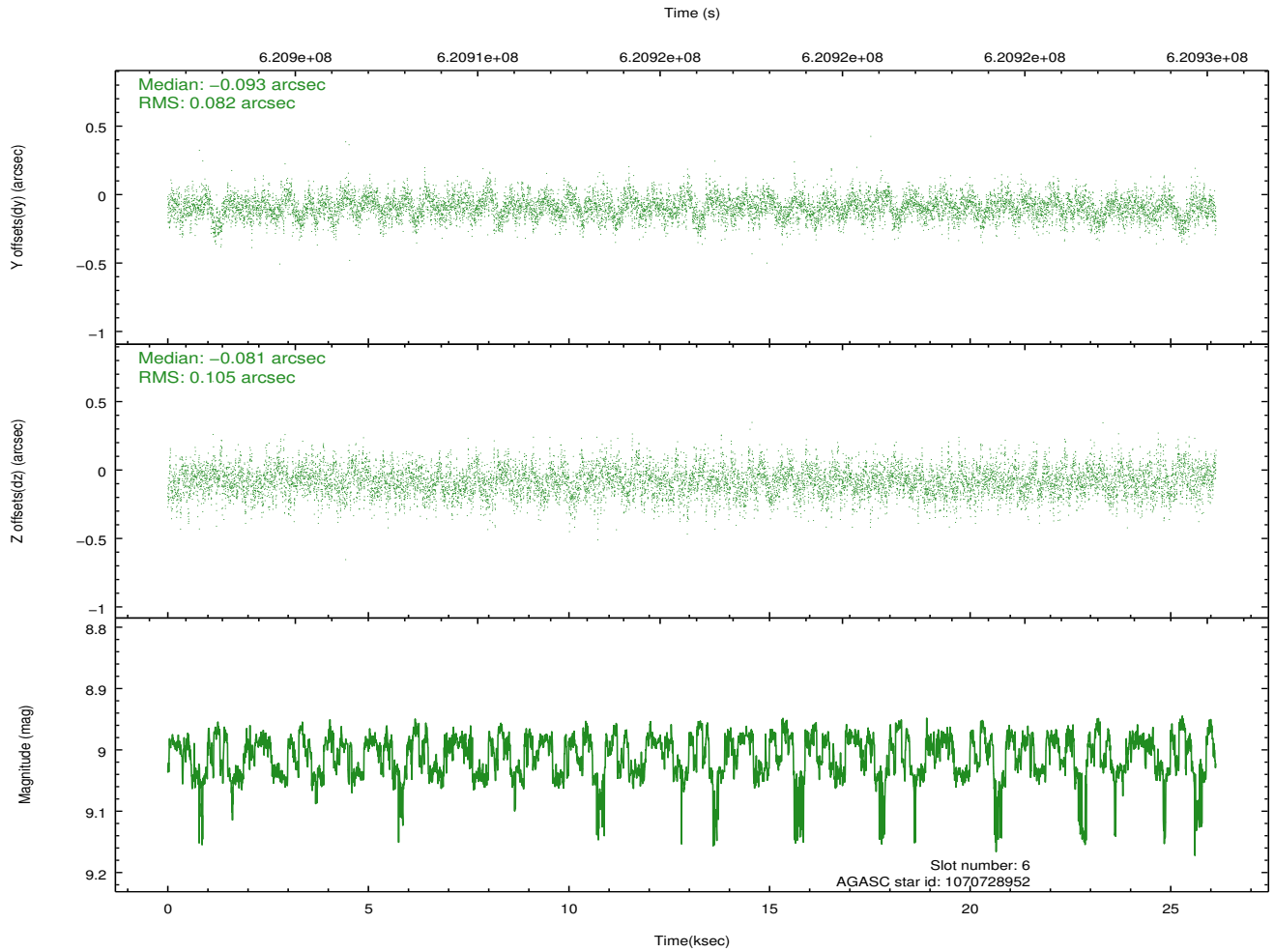
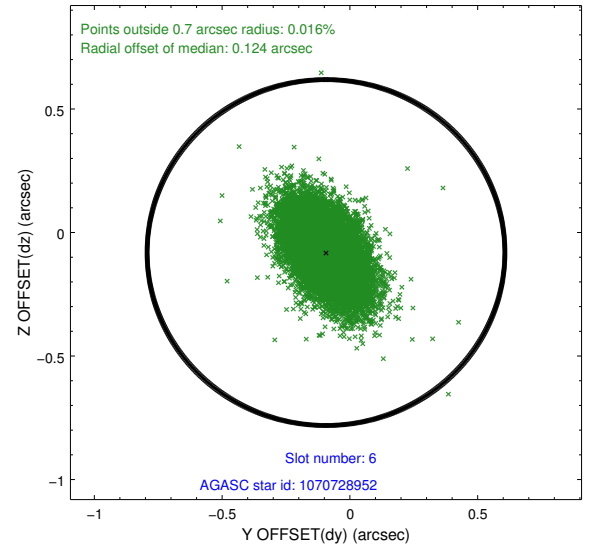
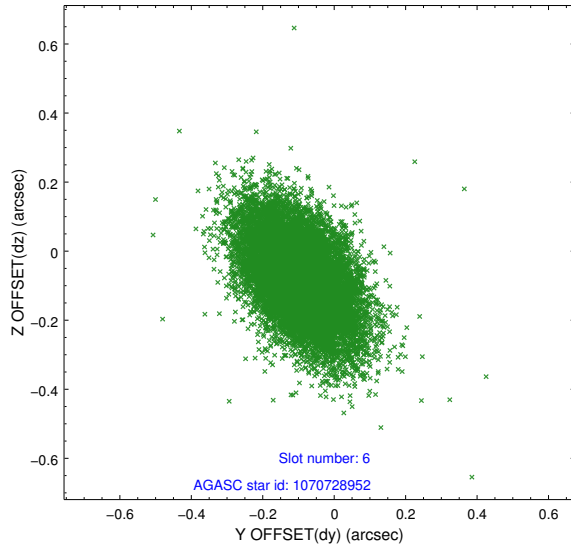
2.4.2 Slot 4



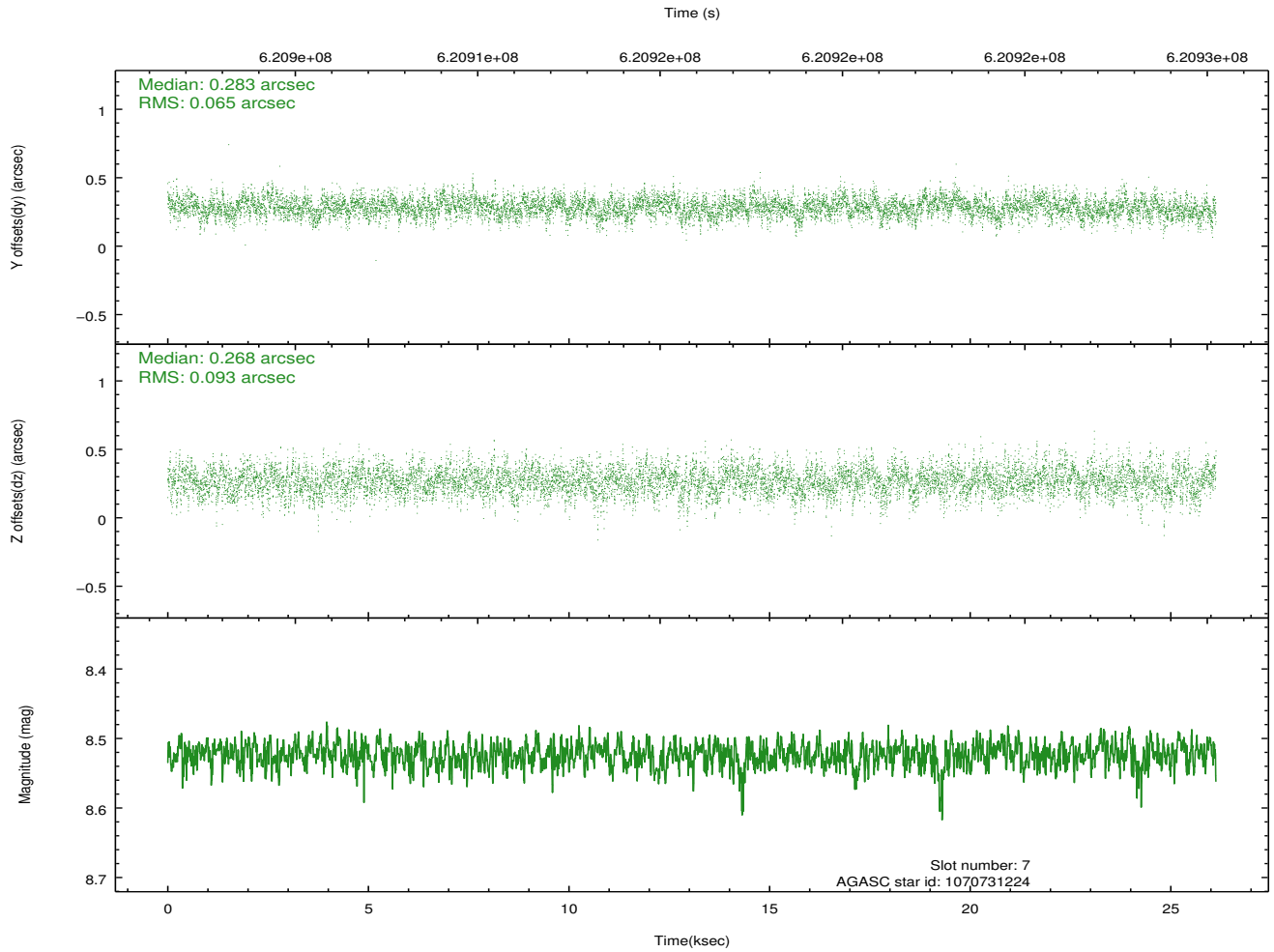
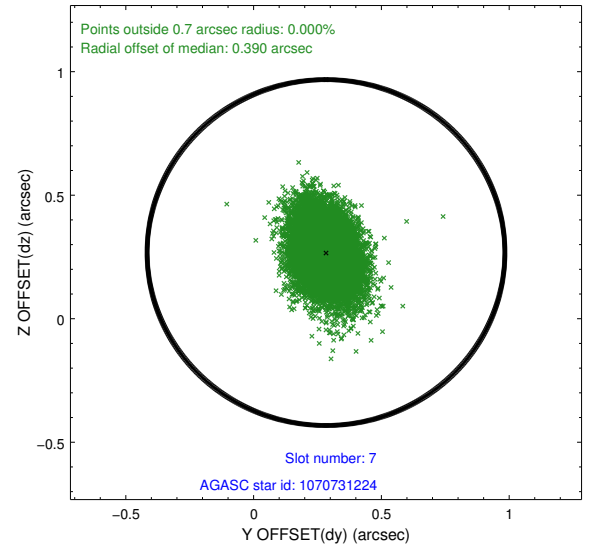
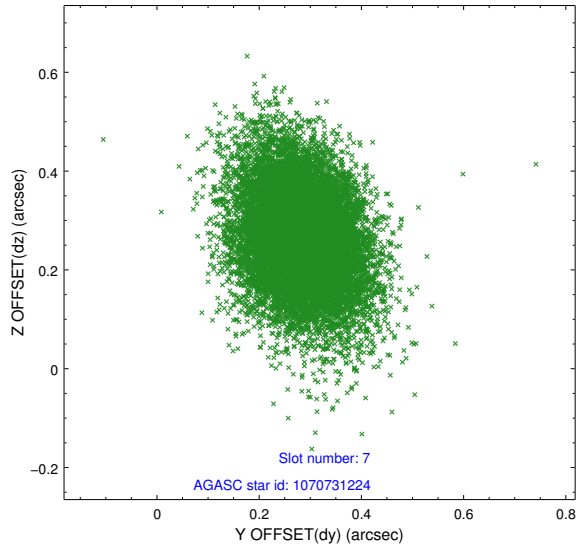
2.4.3 Slot 5



2.4.4 Slot 6

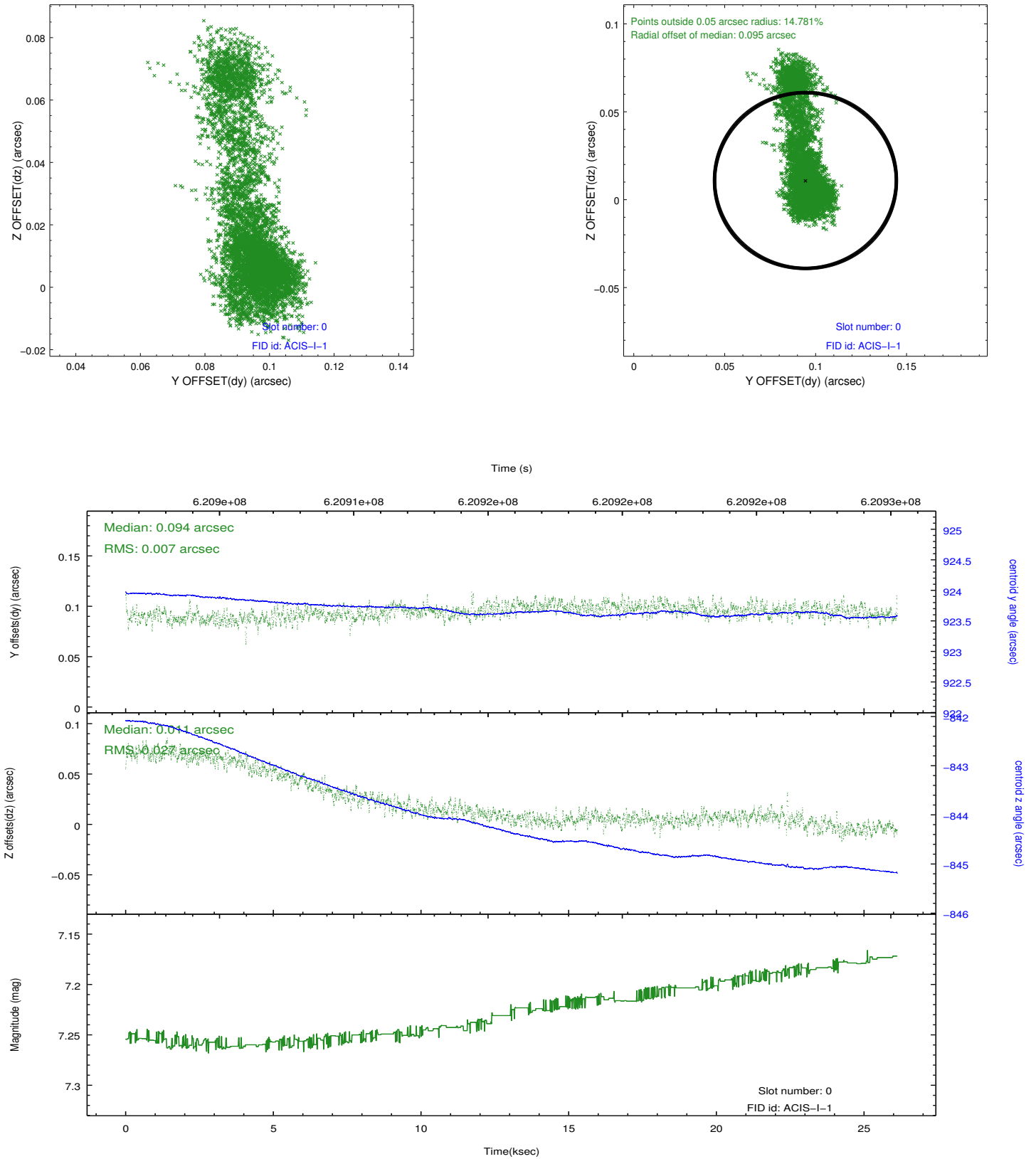


2.4.5 Slot 7

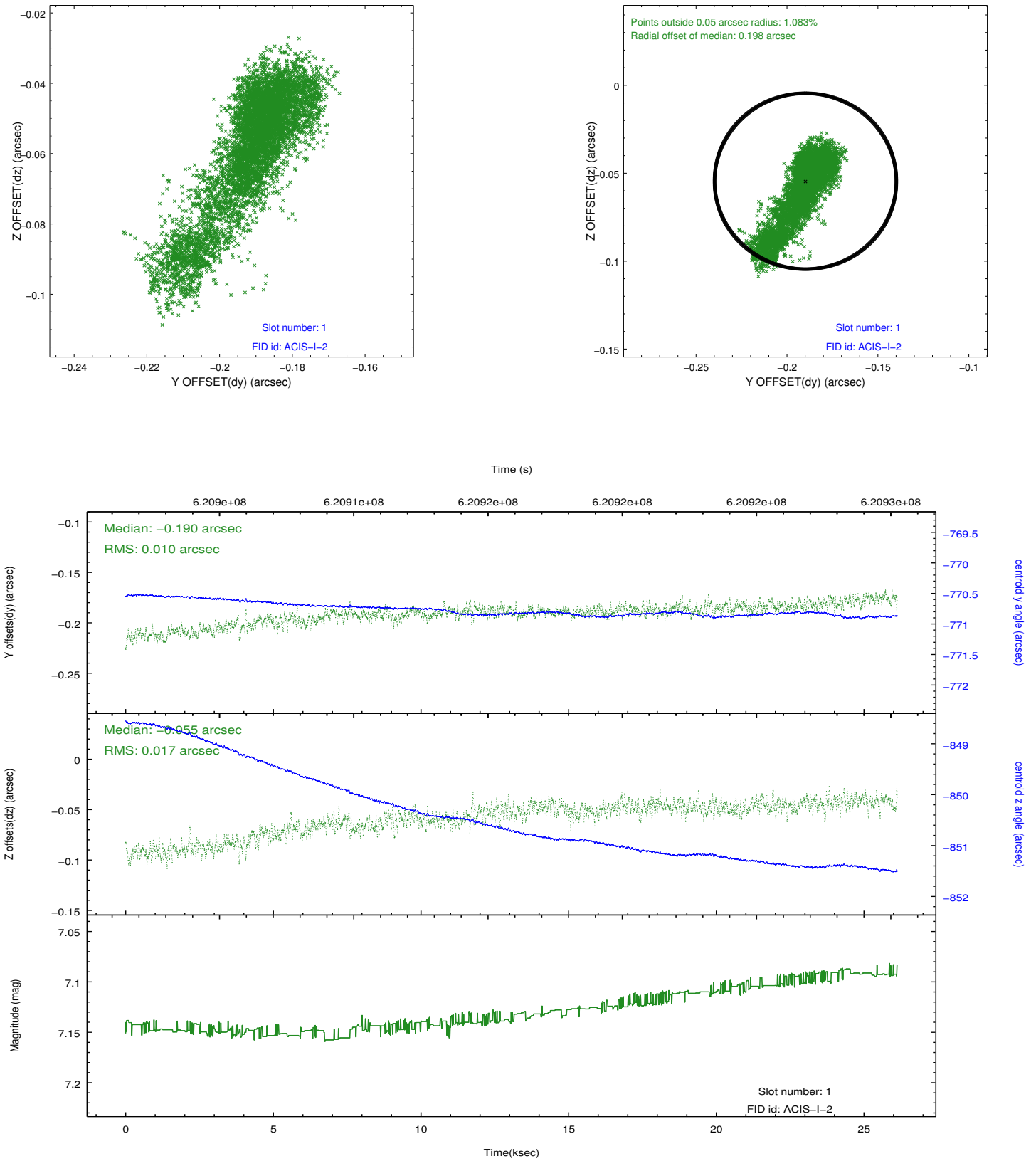


2.5 FID Slots

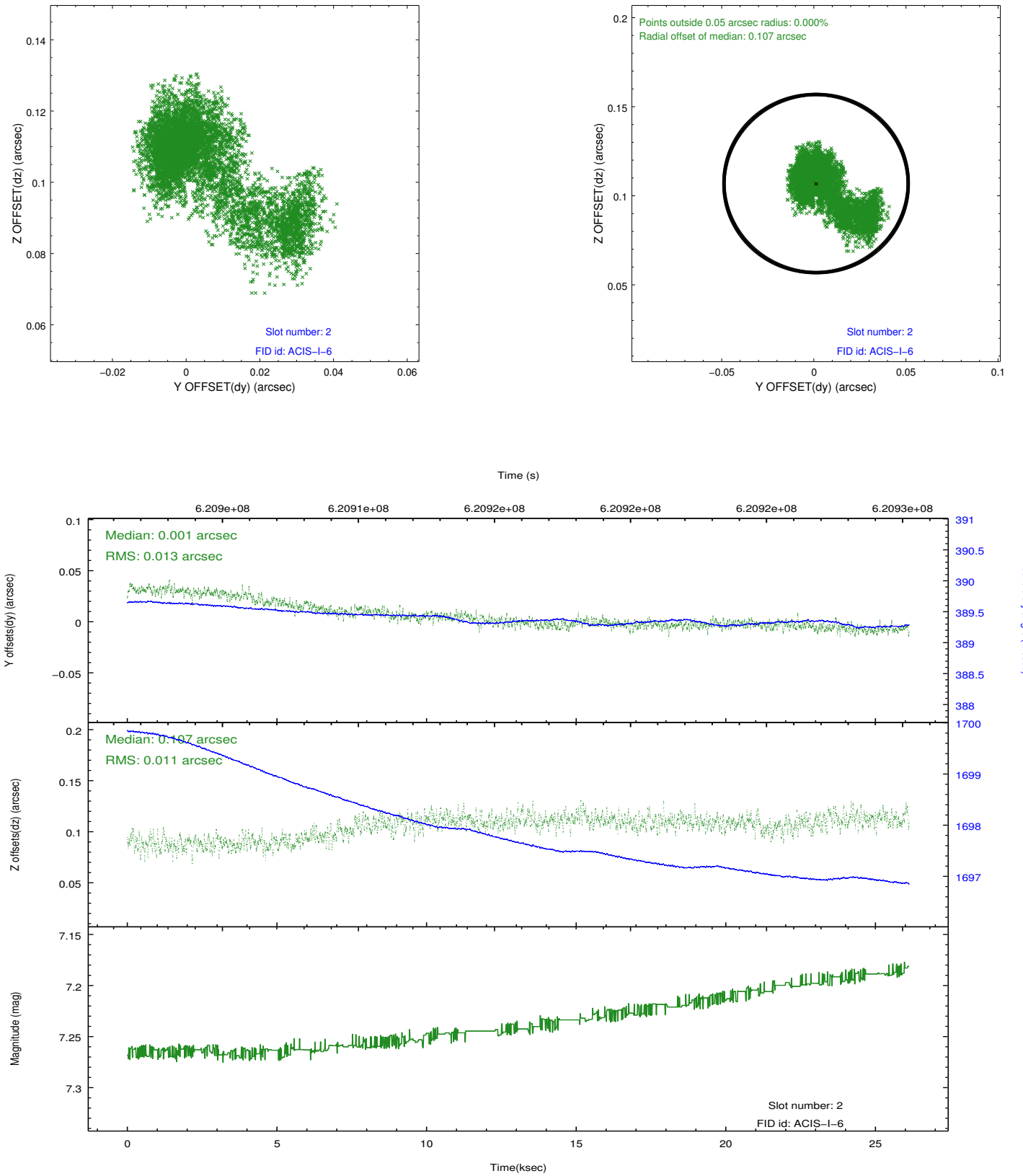
2.5.1 Slot 0



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)	2017.09.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.955200386763

A.2 Comments