

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 14139 - L2 Version 1
Chandra X-Ray Center

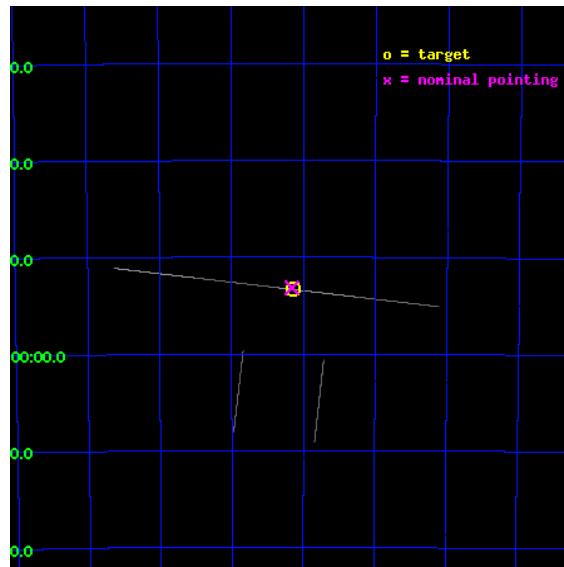
L2 Processing Date : Feb 24 2012

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1 Front

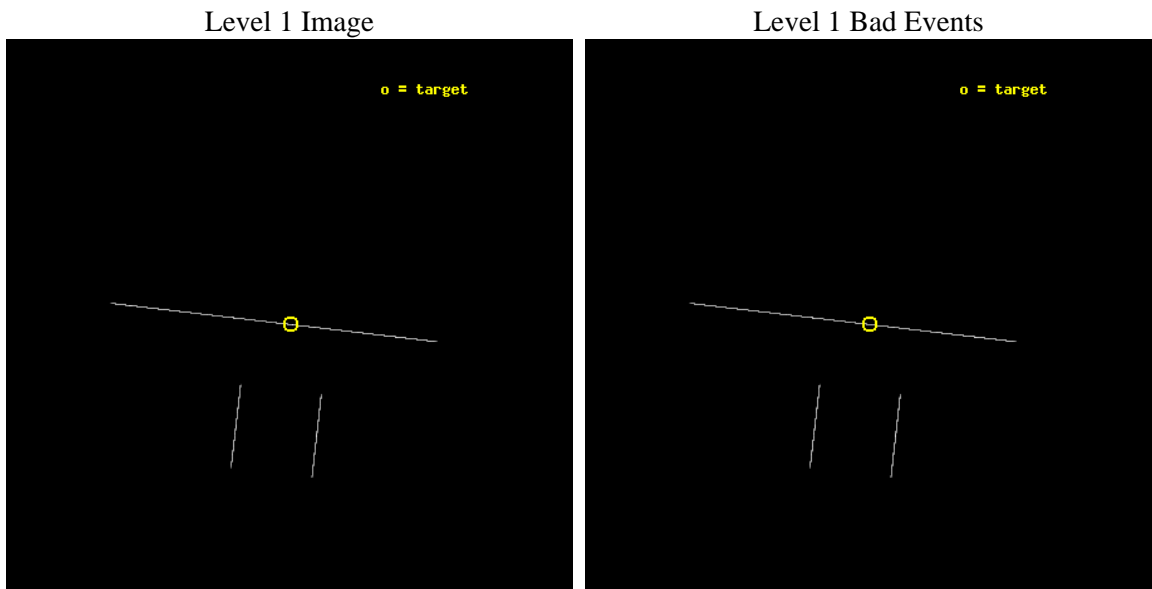
seq_num	501724	Sequence number
obs_id	14139	Observation id
title	TINY HICCUPS TO TITANIC EXPLOSIONS: Tackling Transients in Anomalous X-ray Pulsars	Proposal title
observer	Professor Victoria Kaspi	Principal investigator
object	1E 1048.1-5937	Source name
ra_targ	162.537083	Observer's specified target RA [deg]
dec_targ	-59.889	Observer's specified target Dec [deg]
ra_nom	162.53974786371	Nominal RA [deg]
dec_nom	-59.88629964284	Nominal Dec [deg]
roll_nom	6.6214113723798	Nominal Roll [deg]
revision	1	Processing version of data
ontime	6077.5	Sum of GTIs [s]
livetime	6053.759765625	Livetime [s]
ontime2	6077.5	Sum of GTIs [s]
ontime3	6077.5	Sum of GTIs [s]
ontime5	6077.5	Sum of GTIs [s]
ontime6	6077.5	Sum of GTIs [s]
ontime7	6077.5	Sum of GTIs [s]
ontime8	6077.5	Sum of GTIs [s]
l2events	96052	Number of level 2 events



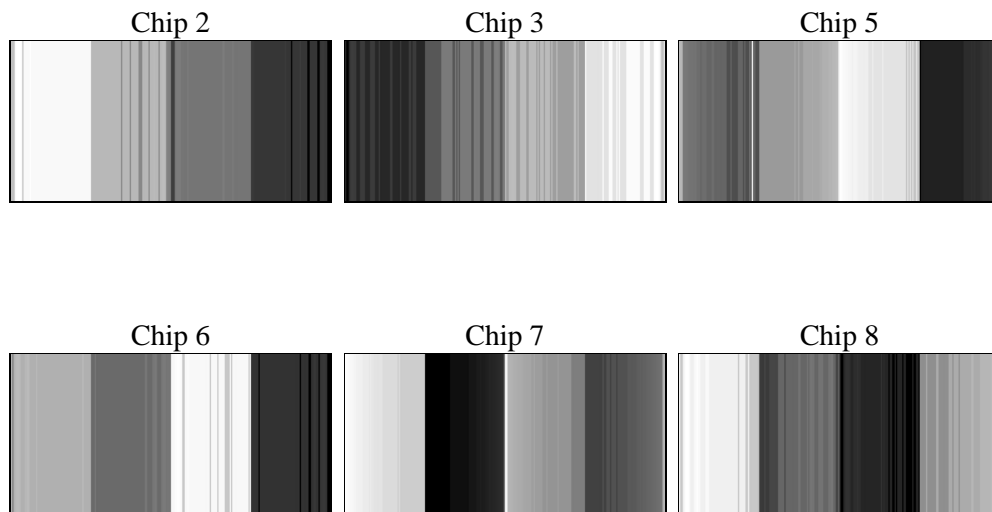
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6000.521000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	6077.5	Sum of GTIs [s]
caldsver	4.4.8	 	ontime2	6077.5	Sum of GTIs [s]
date	2012-02-24T11:35:18	Date and time of file creation	ontime3	6077.5	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	6077.5	Sum of GTIs [s]
			ontime6	6077.5	Sum of GTIs [s]
			ontime7	6077.5	Sum of GTIs [s]
			ontime8	6077.5	Sum of GTIs [s]
			l1events	499540	Number of level 1 events

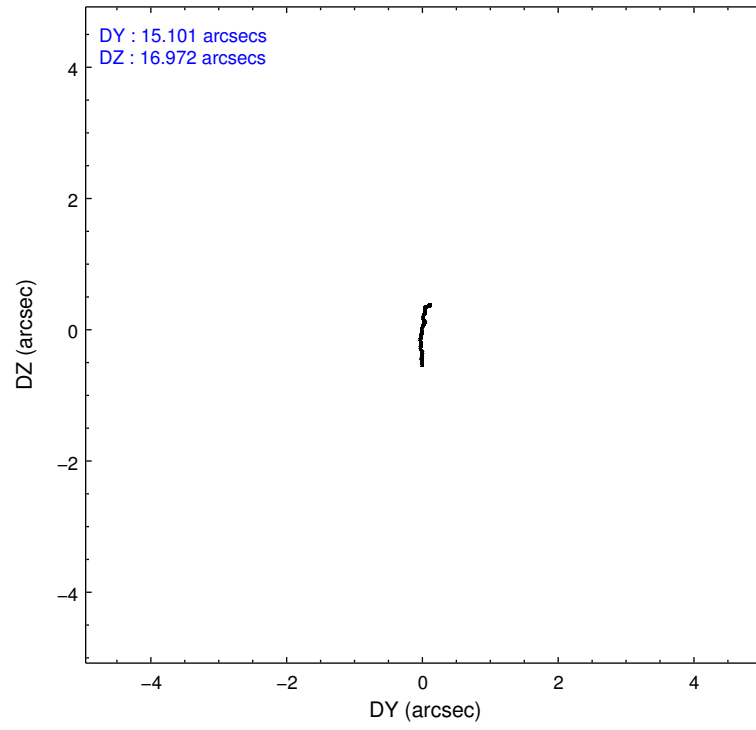
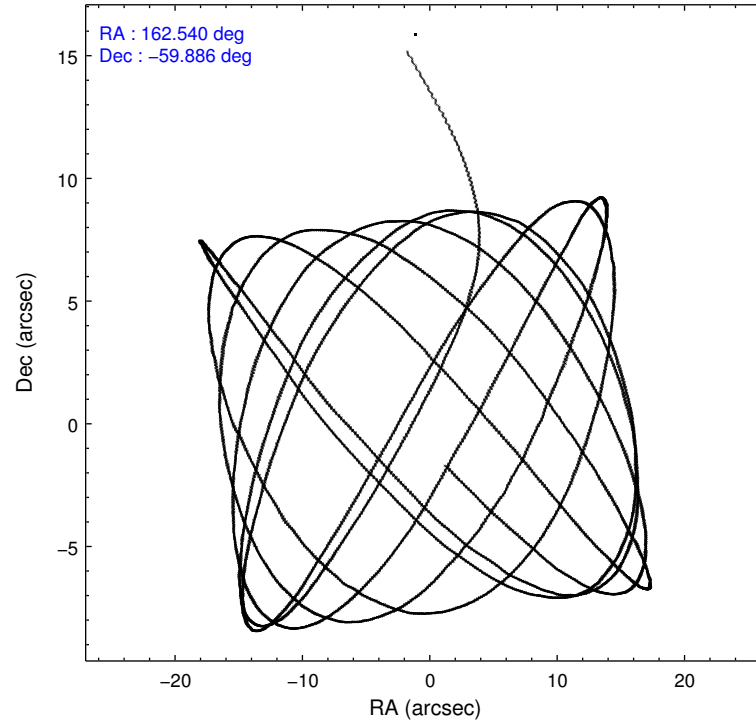
2.1.4 Events

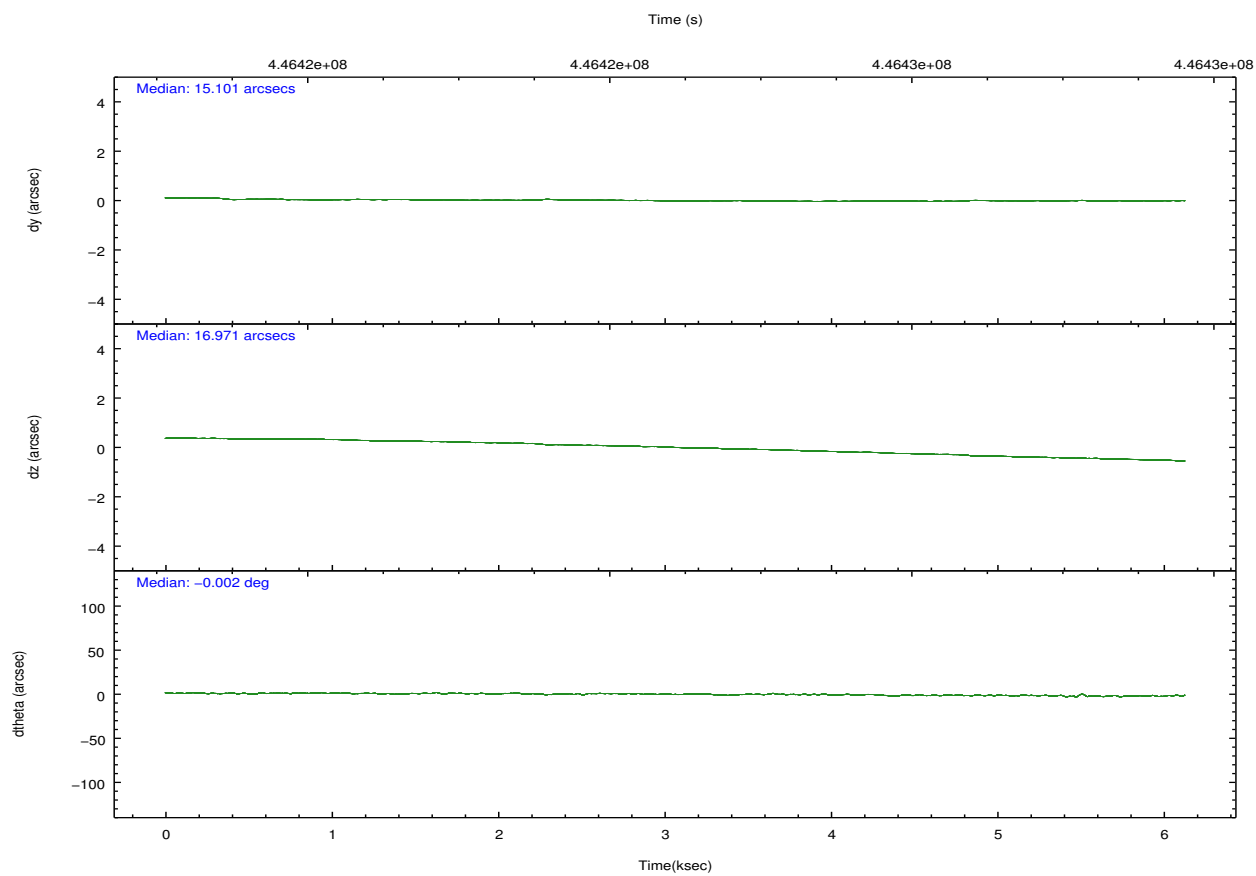
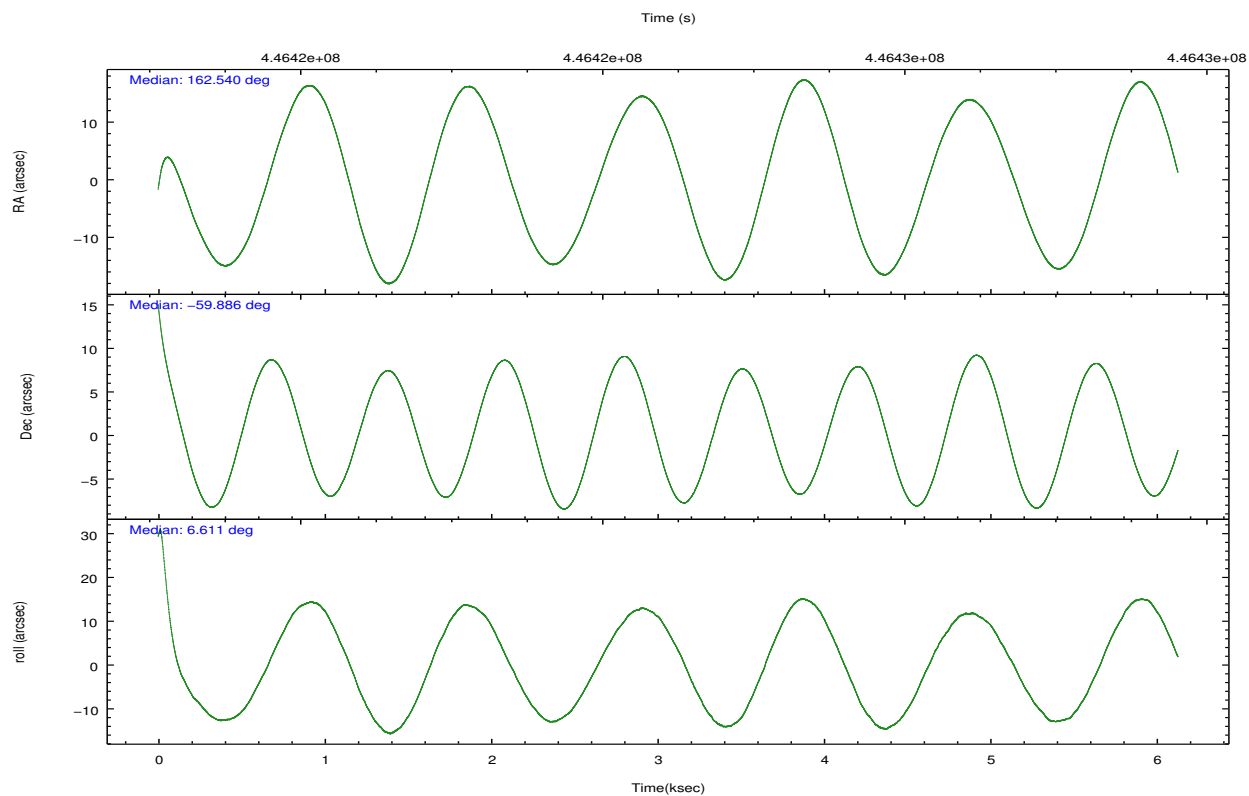
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	71906	67443	97969	61256	92516	108450	grade 0 events	799	838	14504	818	6654	4132
rejected events	65838	60889	51249	54109	48659	90156		1%	1%	14%	1%	7%	3%
rejected %	91%	90%	52%	88%	52%	83%	grade 1 events	34	29	89	26	98	80
								0%	0%	0%	0%	0%	0%
							grade 2 events	2245	2363	12610	2759	11824	5585
								3%	3%	12%	4%	12%	5%
							grade 3 events	815	953	759	899	3626	1874
								1%	1%	0%	1%	3%	1%
							grade 4 events	860	870	706	891	3525	1815
								1%	1%	0%	1%	3%	1%
							grade 5 events	1679	1922	4284	1917	5147	2956
								2%	2%	4%	3%	5%	2%
							grade 6 events	1352	1536	18167	1785	18260	4899
								1%	2%	18%	2%	19%	4%
							grade 7 events	64122	58932	46850	52161	43382	87109
								89%	87%	47%	85%	46%	80%

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	CC33_FAINT	CC33_FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	162.496408	162.5397478637129	CCD I2 on	O2	Y
[deg] Pointing Dec	-59.902872	-59.8862996428401	CCD I3 on	O3	Y
[deg] Pointing Roll	6.427227	6.621411372379797	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	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	446421500.184000	446420459.21718	CCD S5 on	N	N
Observation start date	2012-02-23T21:57:14	2012-02-23T21:40:59	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	446427501.184000	446427732.61757	On-chip summing requested	N	N
Observation end date	2012-02-23T23:37:15	2012-02-23T23:42:12	Subarray requested	NONE	NONE
Read mode	CONTINUOUS	CONTINUOUS	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	0

2.3 Aspect



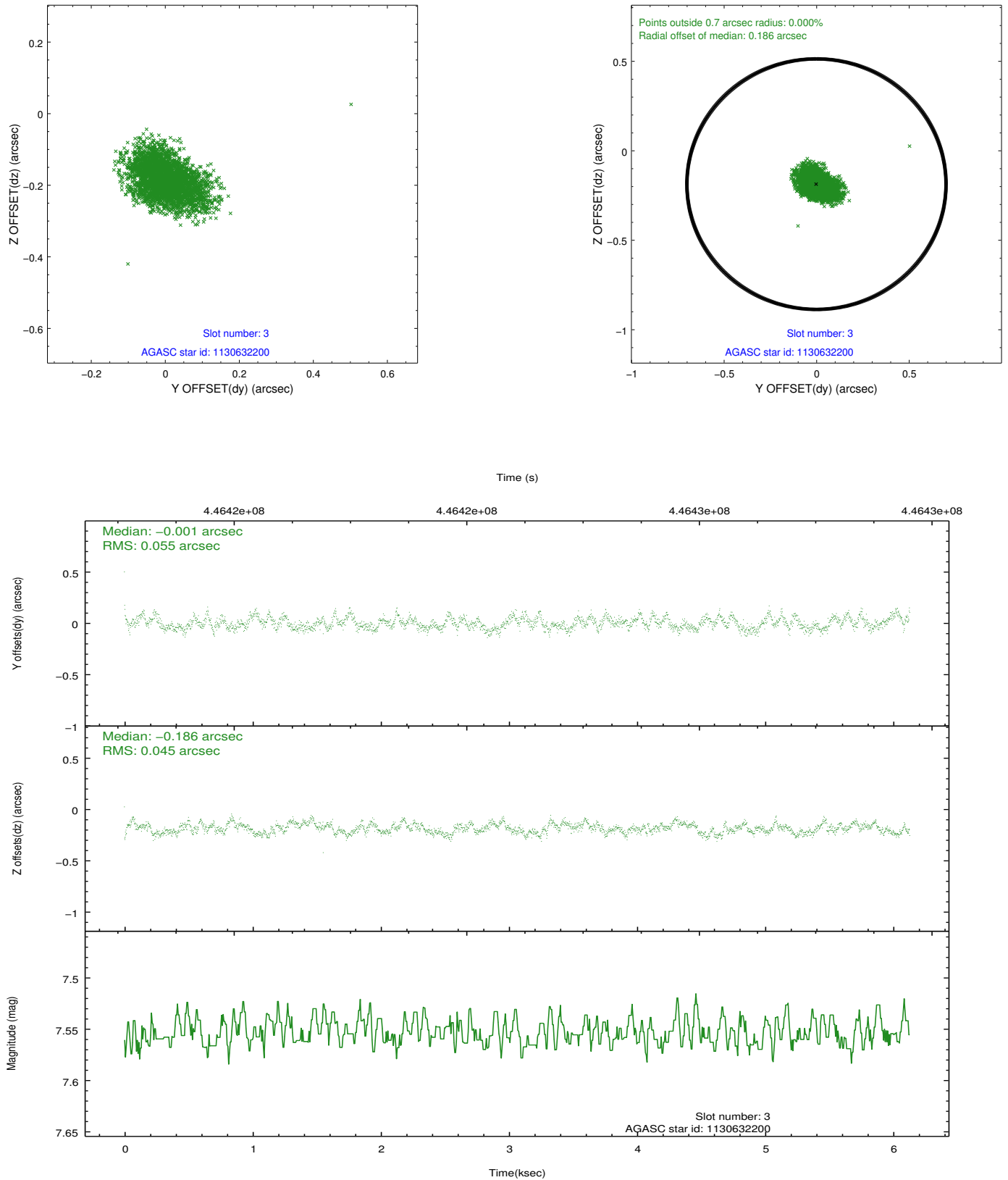


Slot Statistics

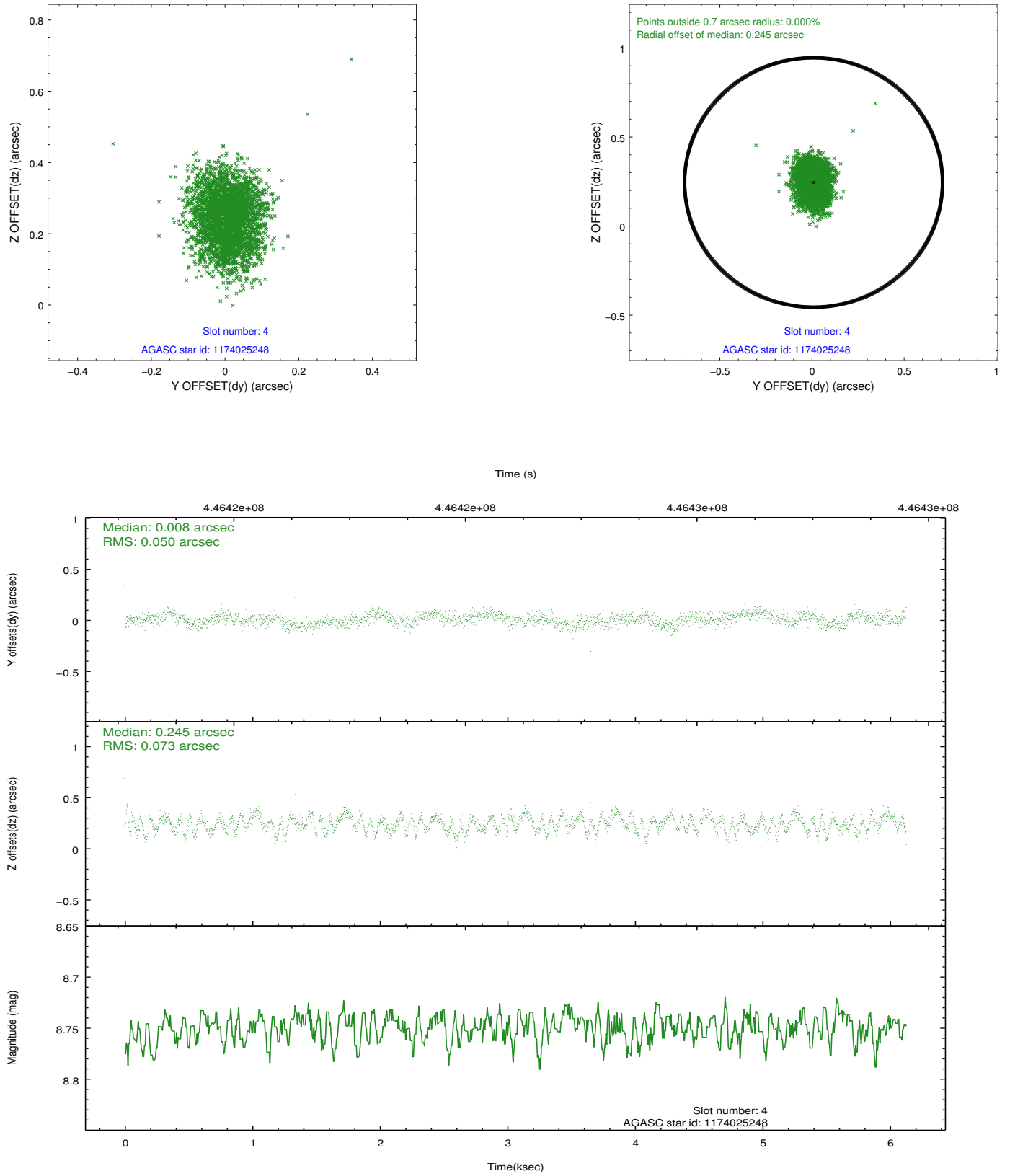
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.91	1495	-0.084	-0.018	0.012	0.019	0.000000	0.000000	-768.22	-1738.32
1	FID	ACIS-S-4	6.99	1495	0.201	0.046	0.008	0.016	0.000000	0.000000	2144.95	169.14
2	FID	ACIS-S-5	7.02	1495	-0.146	-0.019	0.011	0.018	0.000000	0.000000	-1819.83	163.95
3	GUIDE	1130632200	7.55	2990	-0.001	-0.186	0.075	0.121	161.433843	-59.407820	-1736.92	1973.42
4	GUIDE	1174025248	8.75	2986	0.008	0.245	0.094	0.148	161.784801	-60.573378	-1521.72	-2263.44
5	GUIDE	1174033752	8.47	2985	0.068	0.079	0.084	0.135	162.418977	-60.164599	-243.37	-921.12
6	GUIDE	1174166216	8.03	2990	-0.071	0.012	0.077	0.124	163.522199	-60.352910	1632.13	-1827.72
7	GUIDE	1130640672	8.27	2990	-0.009	-0.145	0.072	0.118	162.096044	-59.540805	-579.91	1374.45

2.4 Star Slots

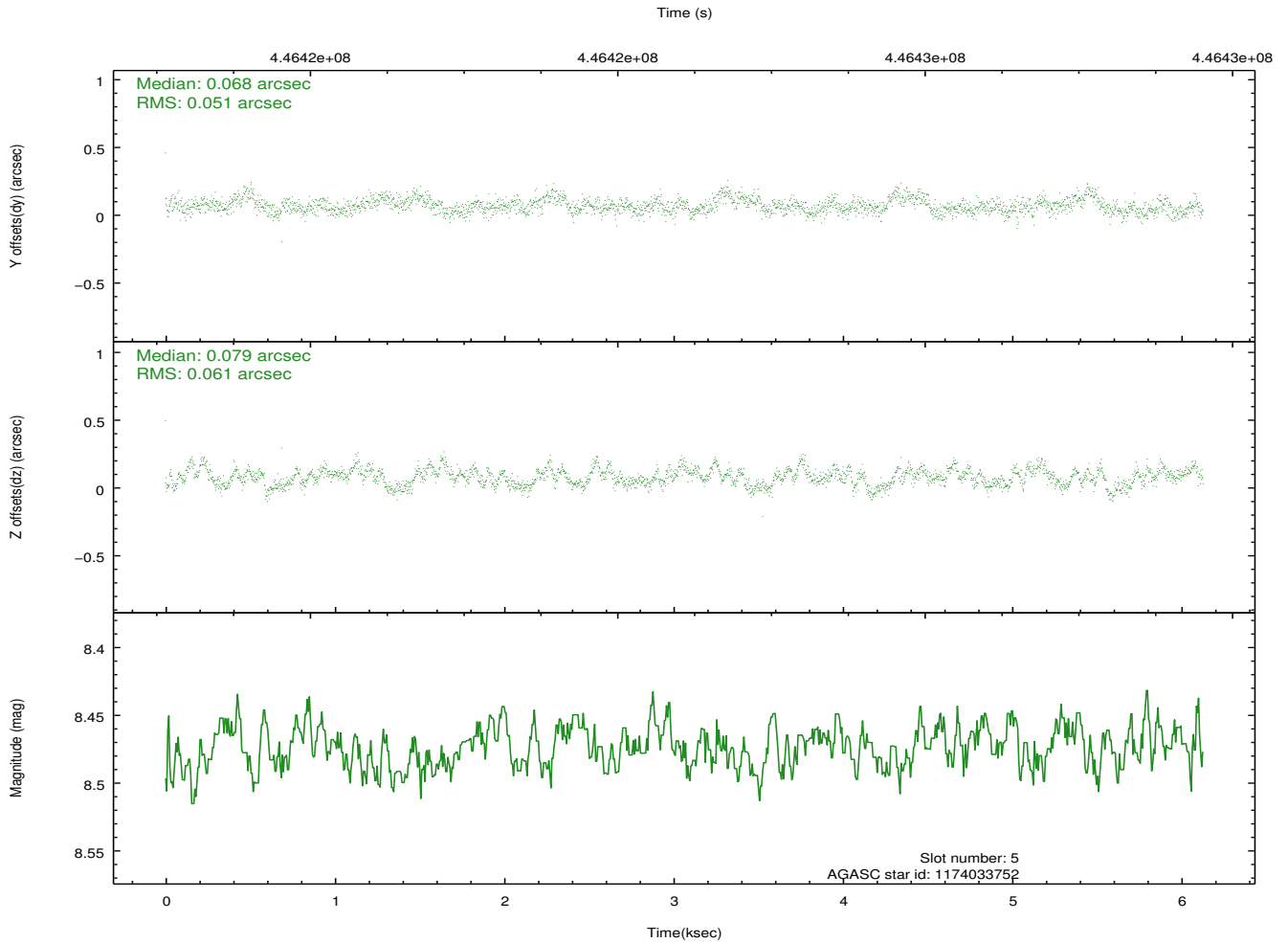
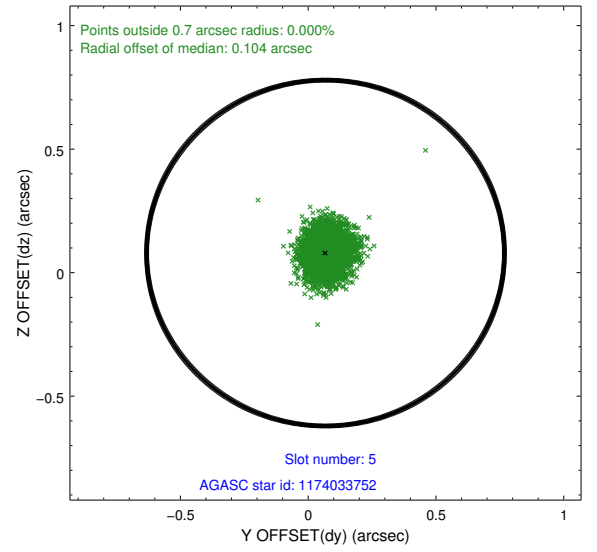
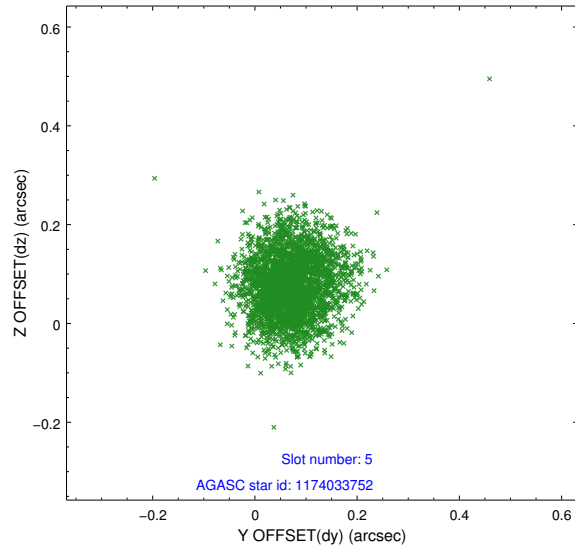
2.4.1 Slot 3



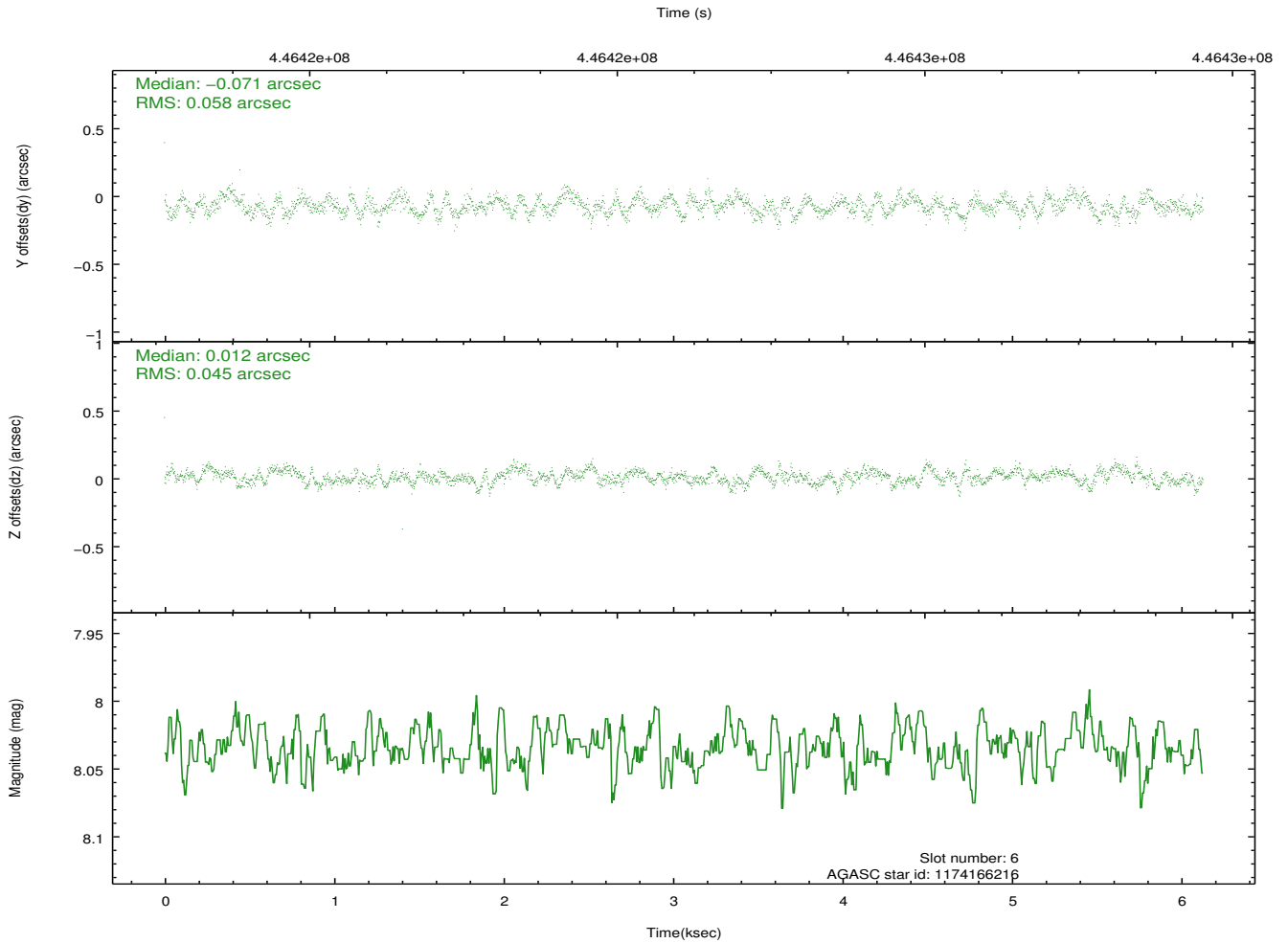
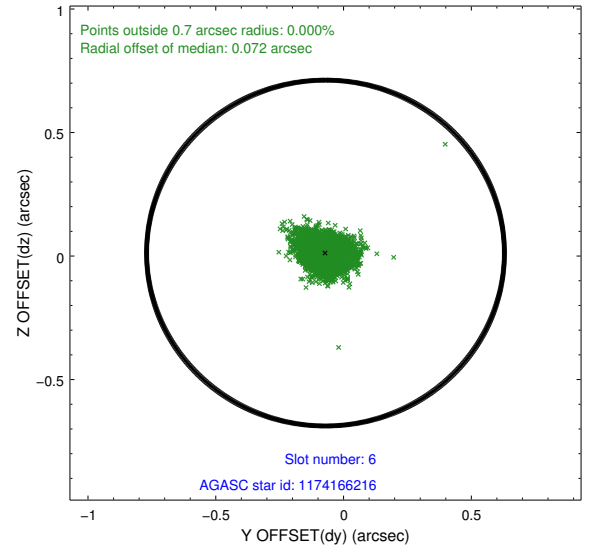
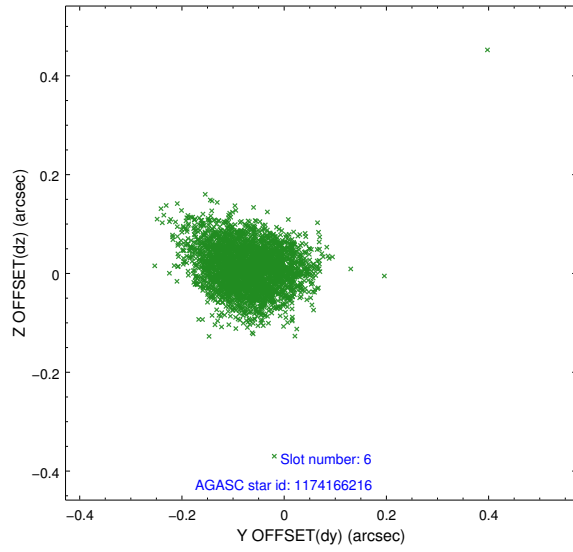
2.4.2 Slot 4



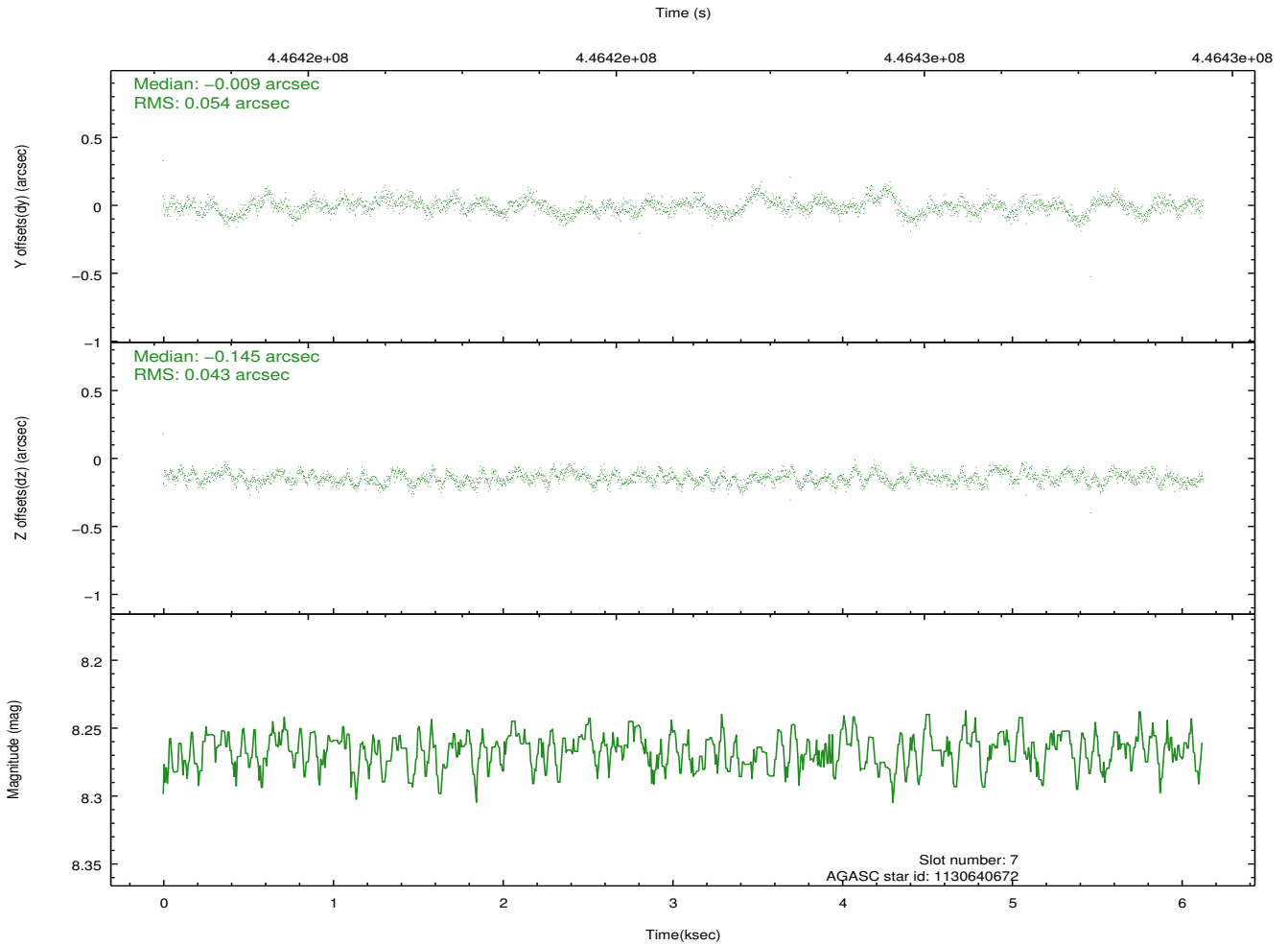
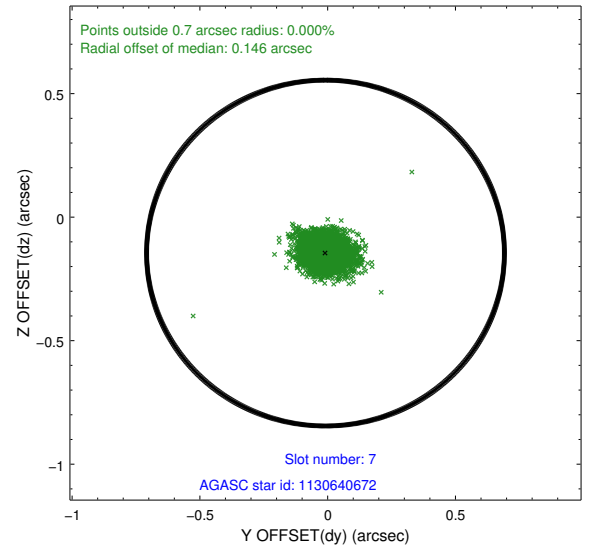
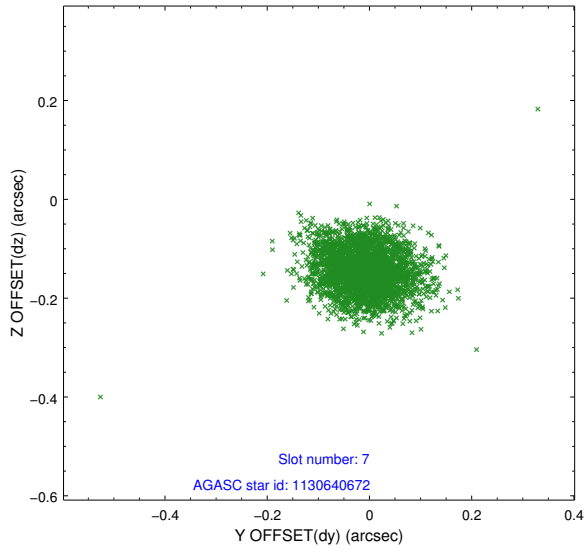
2.4.3 Slot 5



2.4.4 Slot 6

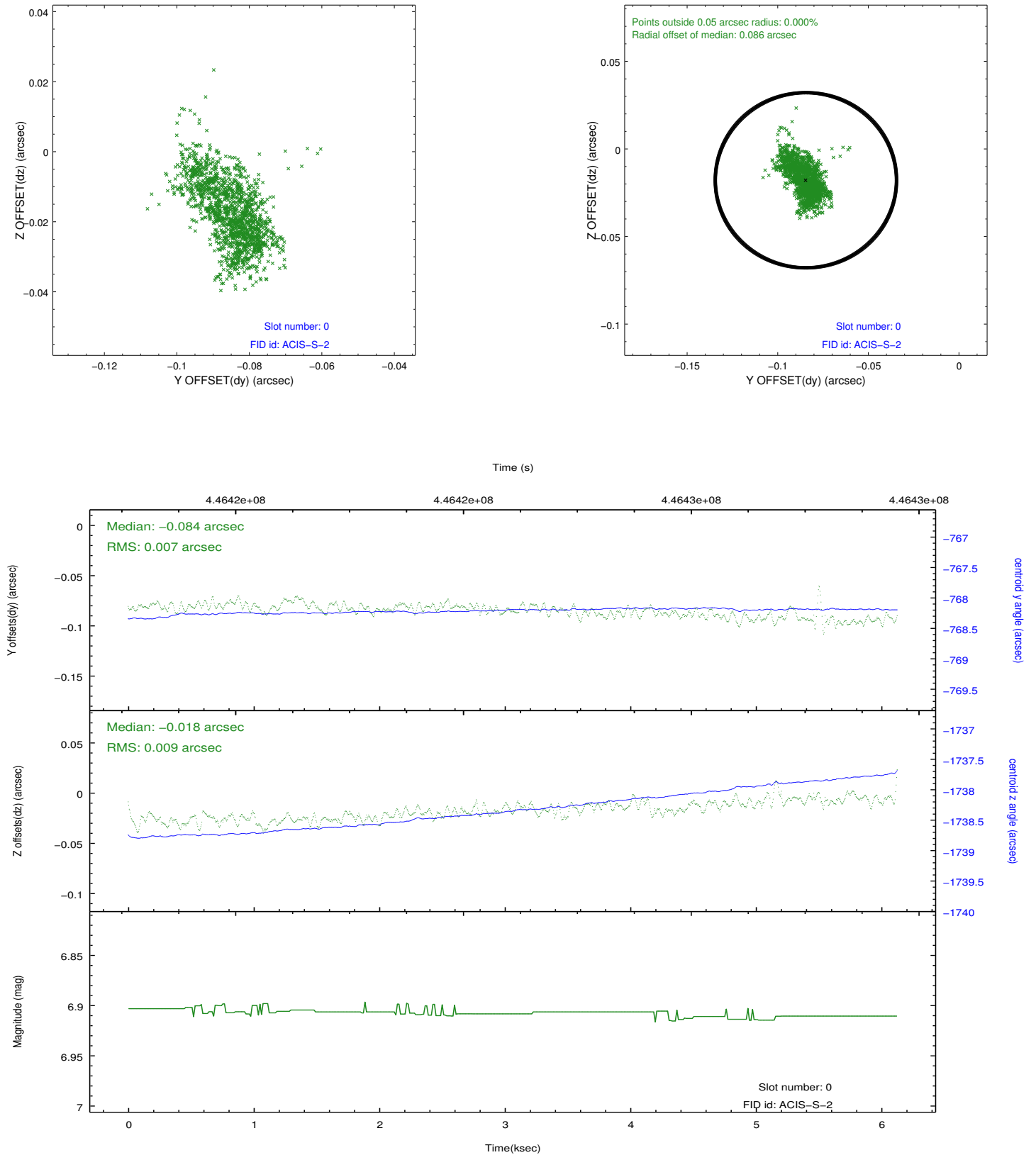


2.4.5 Slot 7

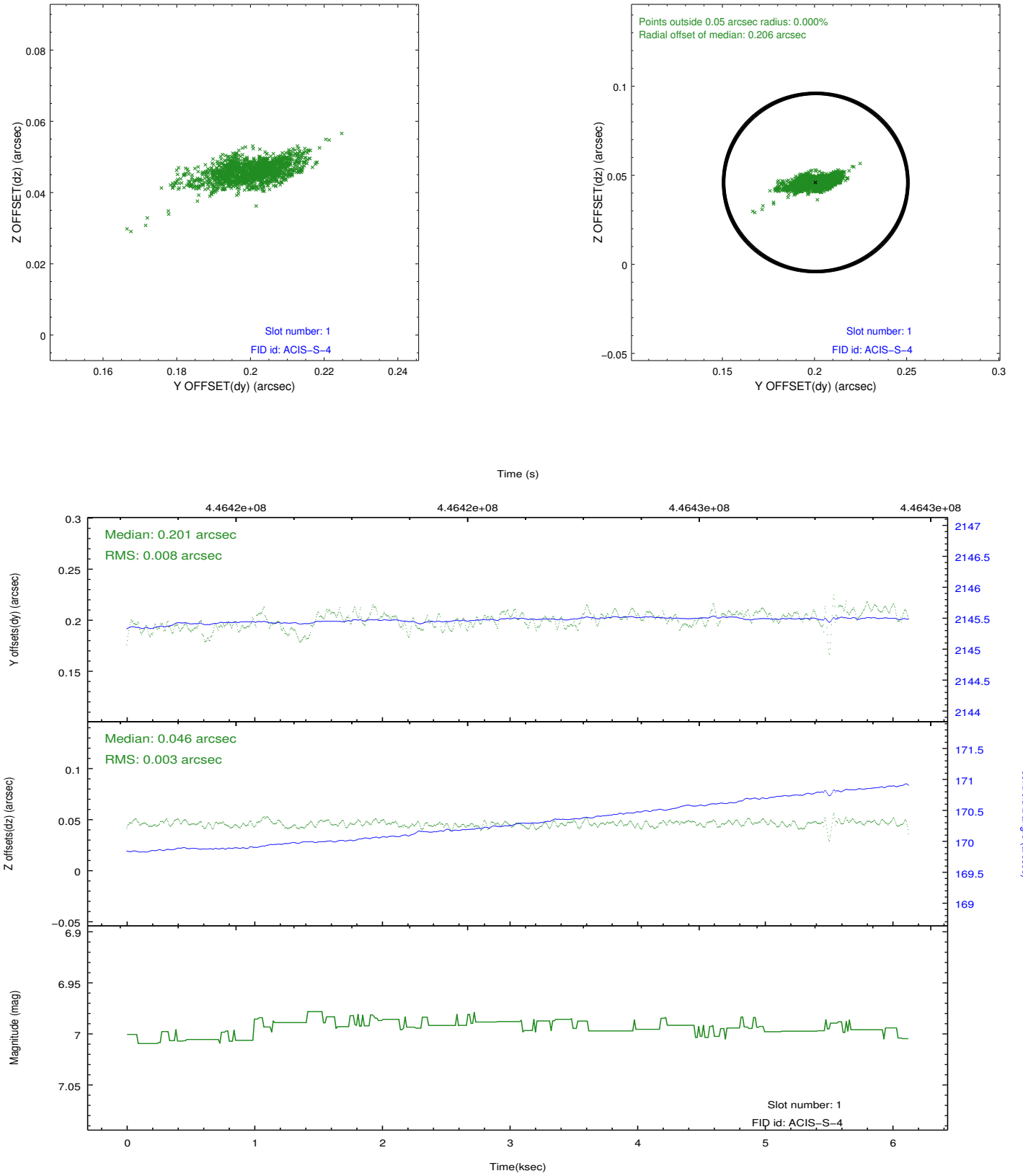


2.5 FID Slots

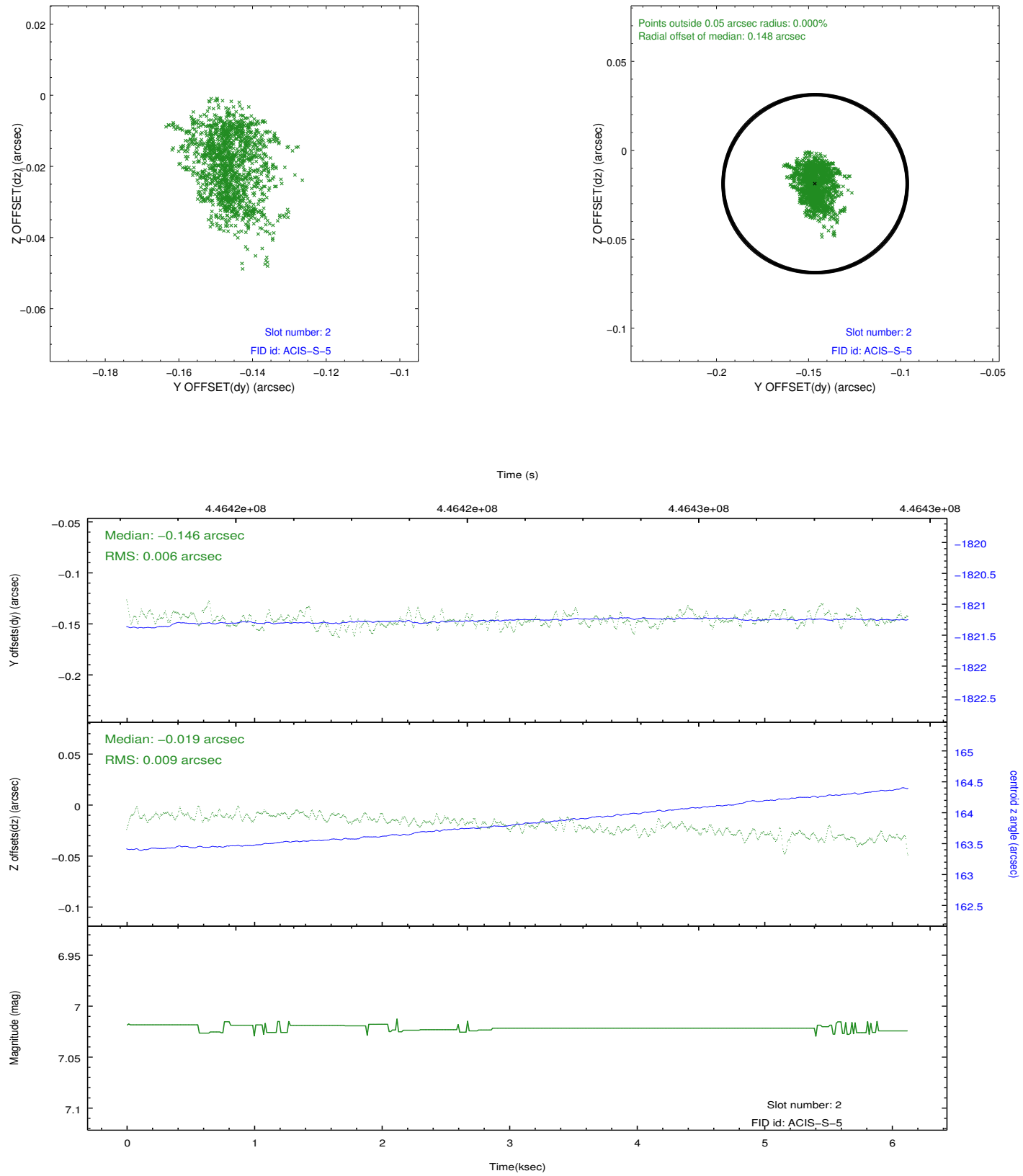
2.5.1 Slot 0



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)	2012.02.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.0775

A.2 Comments