

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 18938 - L2 Version 1
Chandra X-Ray Center

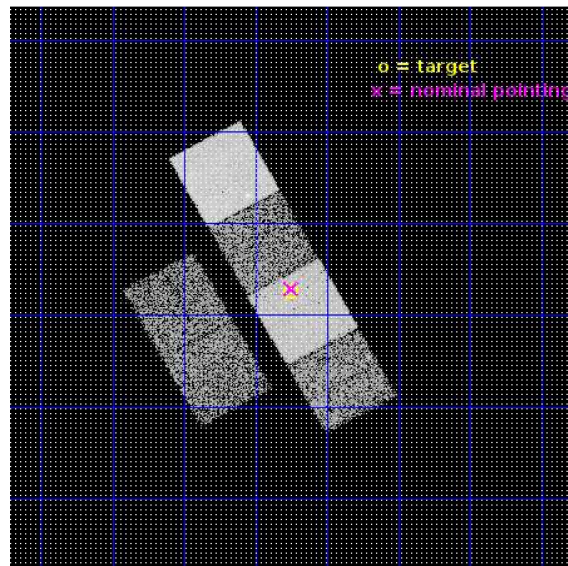
L2 Processing Date : Dec 17 2016

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1 Front

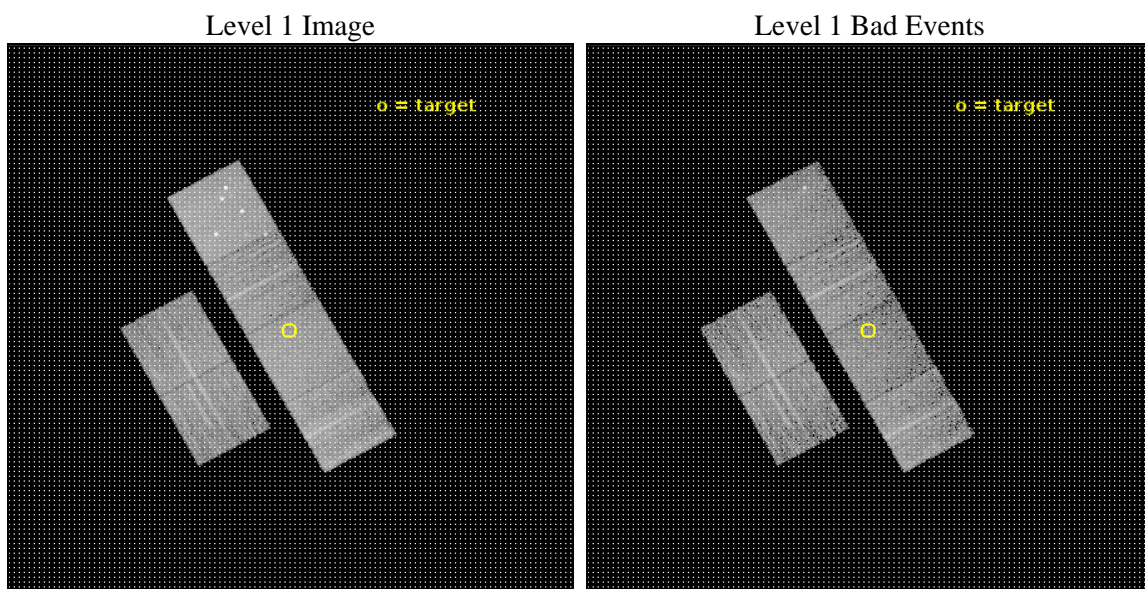
seq_num	201131	Sequence number
obs_id	18938	Observation id
title	Probing the Dynamo Mechanism in Fully Convective Stars	Proposal ti
observer	Nicholas Wright	Principal investigator
object	2MASS J14211512-0107199	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	215.314167	Observer's specified target RA [deg]
dec_targ	-1.125056	Observer's specified target Dec [deg]
ra_nom	215.31234287489	Nominal RA [deg]
dec_nom	-1.1189755495179	Nominal Dec [deg]
roll_nom	61.193209177245	Nominal Roll [deg]
revision	1	Processing version of data
ontime	6940.800103426	Sum of GTIs [s]
liveltime	6852.9115132683	Livetime [s]
ontime2	6940.800103426	Sum of GTIs [s]
ontime3	6940.800103426	Sum of GTIs [s]
ontime5	6940.800103426	Sum of GTIs [s]
ontime6	6940.800103426	Sum of GTIs [s]
ontime7	6940.800103426	Sum of GTIs [s]
ontime8	6940.800103426	Sum of GTIs [s]
l2events	81402	Number of level 2 events



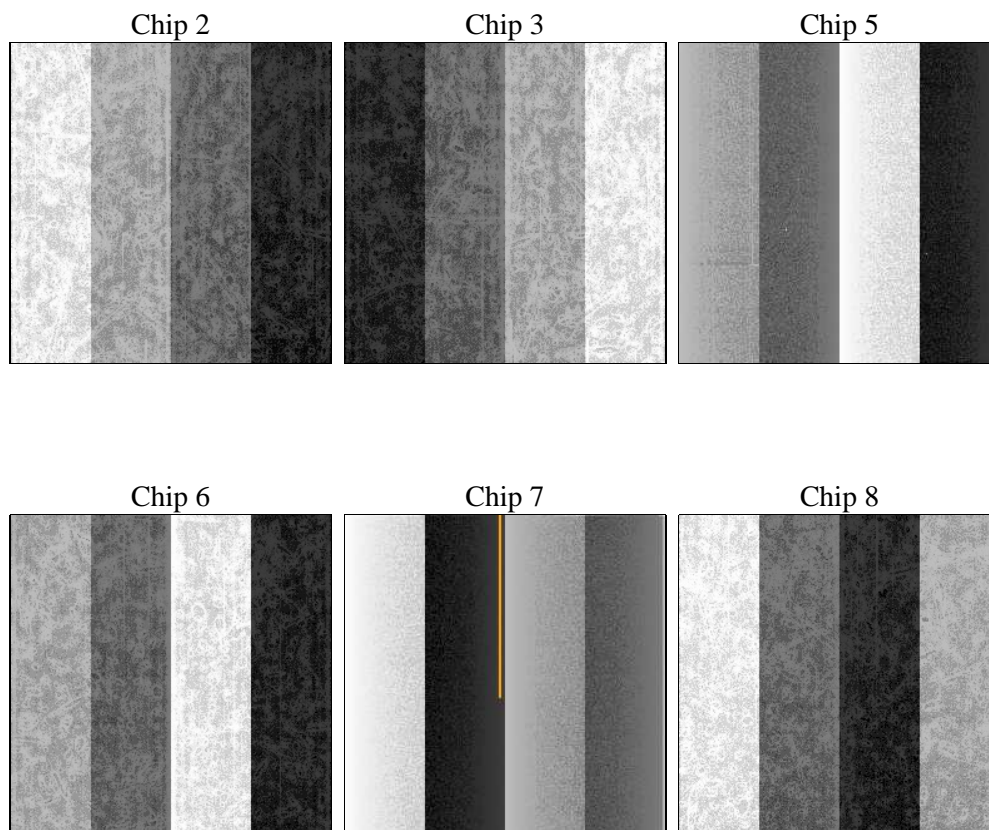
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	6940.800103426	Sum of GTIs [s]
caldsver	4.7.3	 	ontime2	6940.800103426	Sum of GTIs [s]
date	2016-12-17T12:49:18	Date and time of file creation	ontime3	6940.800103426	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	6940.800103426	Sum of GTIs [s]
			ontime6	6940.800103426	Sum of GTIs [s]
			ontime7	6940.800103426	Sum of GTIs [s]
			ontime8	6940.800103426	Sum of GTIs [s]
			l1events	369148	Number of level 1 events

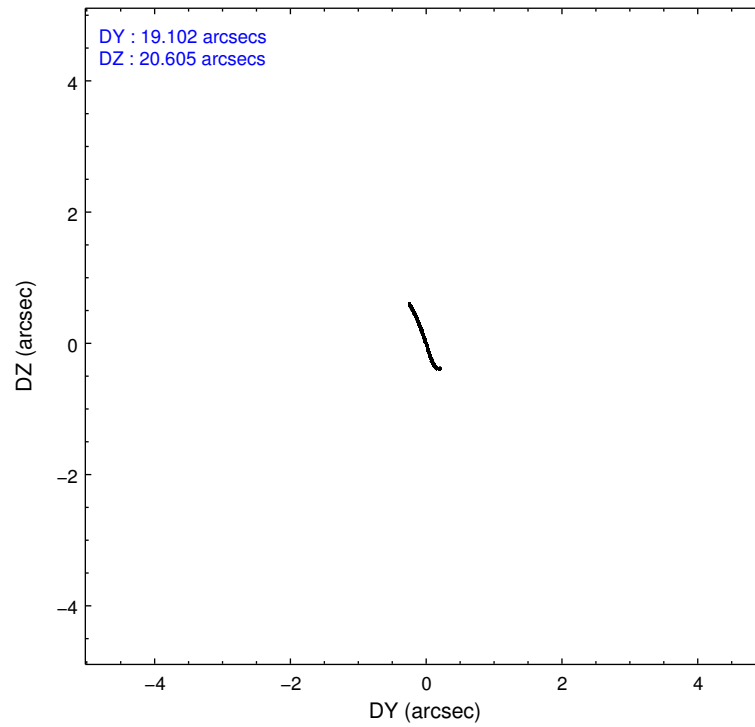
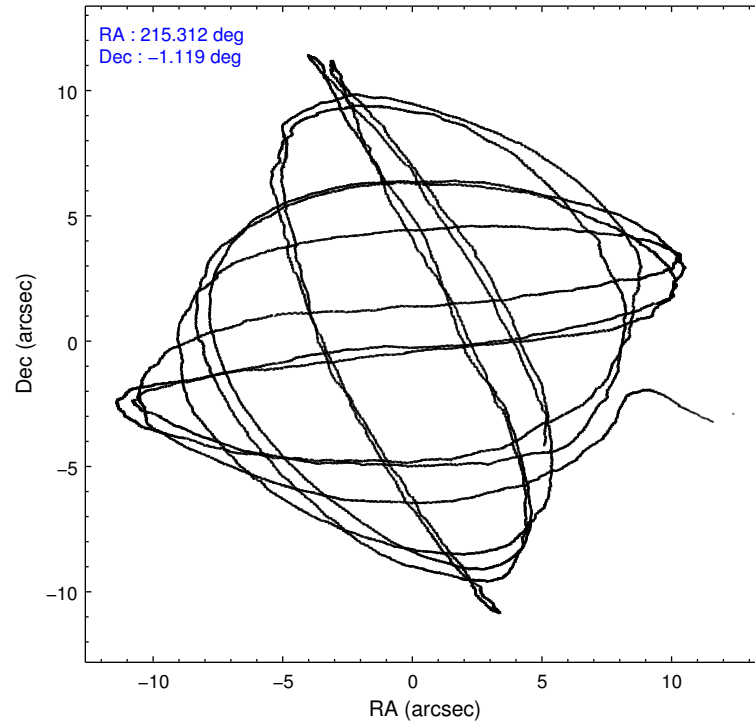
2.1.4 Events

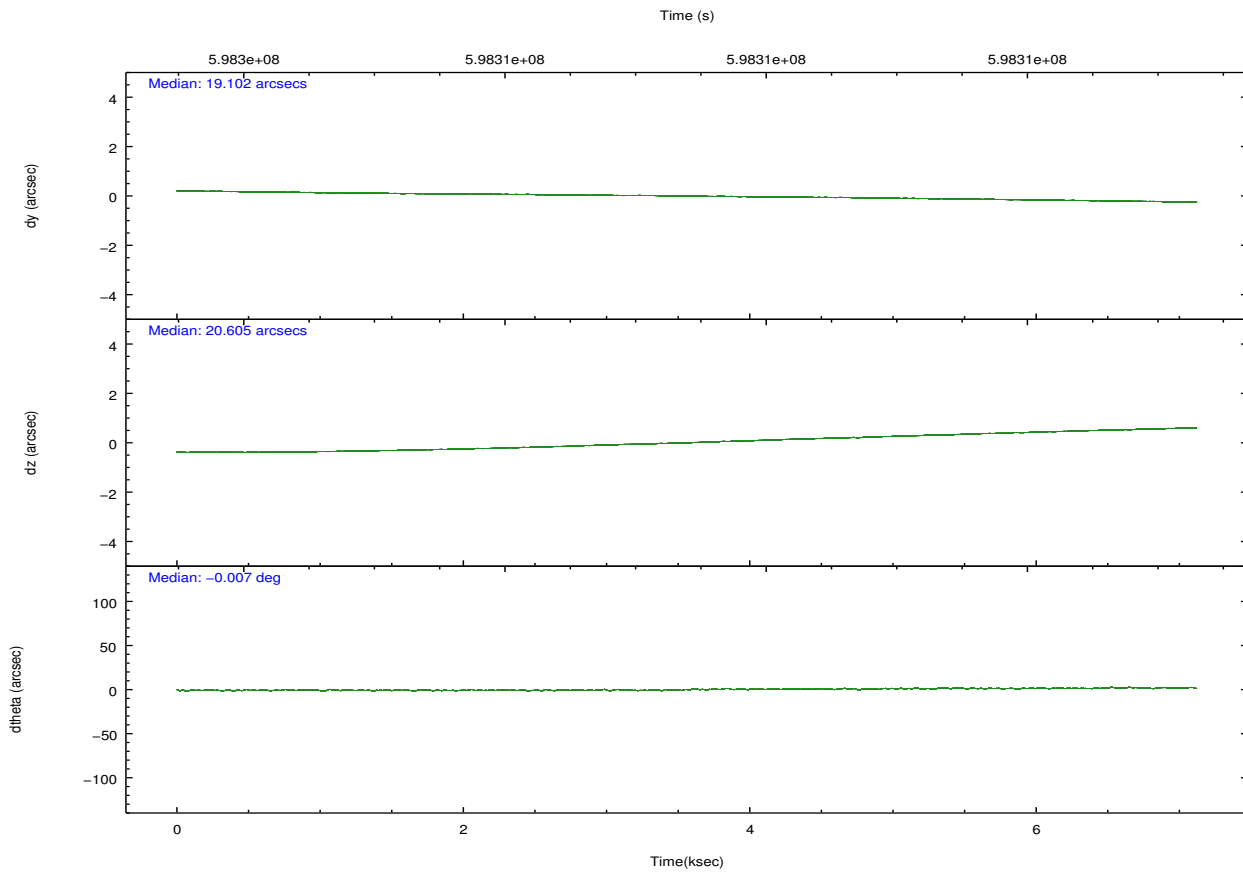
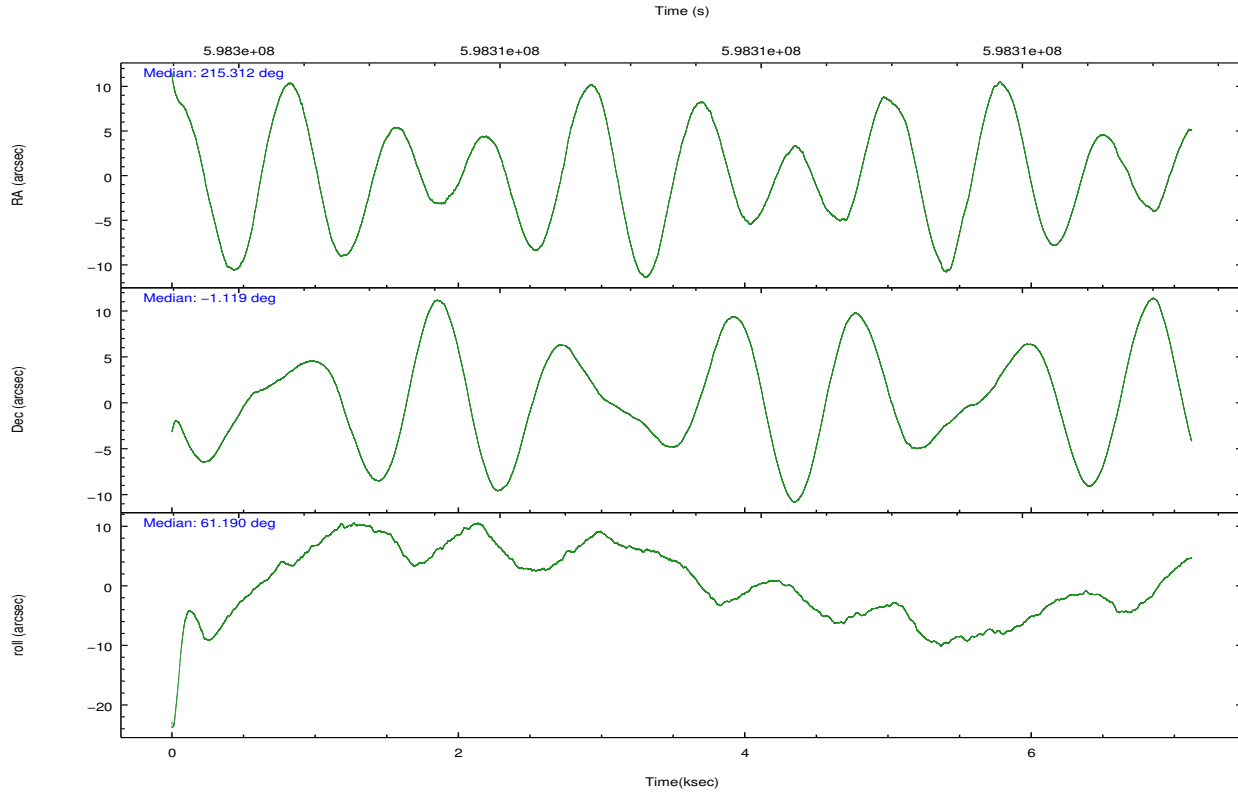
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	51002	48706	86626	52673	63427	66714	grade 0 events	1879	1694	9315	1859	2296	4752
rejected events	45836	43875	41012	46977	36166	49653		3%	3%	10%	3%	3%	7%
rejected %	89%	90%	47%	89%	57%	74%	grade 1 events	27	24	792	21	107	36
								0%	0%	0%	0%	0%	0%
							grade 2 events	1188	1017	13035	1458	5716	4211
								2%	2%	15%	2%	9%	6%
							grade 3 events	547	544	1298	511	2080	1702
								1%	1%	1%	0%	3%	2%
							grade 4 events	516	513	1253	530	2031	1565
								1%	1%	1%	1%	3%	2%
							grade 5 events	2104	2330	5275	2311	5972	3395
								4%	4%	6%	4%	9%	5%
							grade 6 events	1039	1066	20737	1341	15157	4836
								2%	2%	23%	2%	23%	7%
							grade 7 events	43702	41518	34921	44642	30068	46217
								85%	85%	40%	84%	47%	69%

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	215.313237	215.3123428748859	CCD I2 on	O1	Y
[deg] Pointing Dec	-1.146415	-1.118975549517933	CCD I3 on	O2	Y
[deg] Pointing Roll	61.036665	61.19320917724504	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	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)	598303941.184000	598302681.06242	CCD S5 on	N	N
Observation start date	2016-12-16T19:31:13	2016-12-16T19:11:21	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	598310941.184000	598311716.43795	On-chip summing requested	N	N
Observation end date	2016-12-16T21:27:53	2016-12-16T21:41:56	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



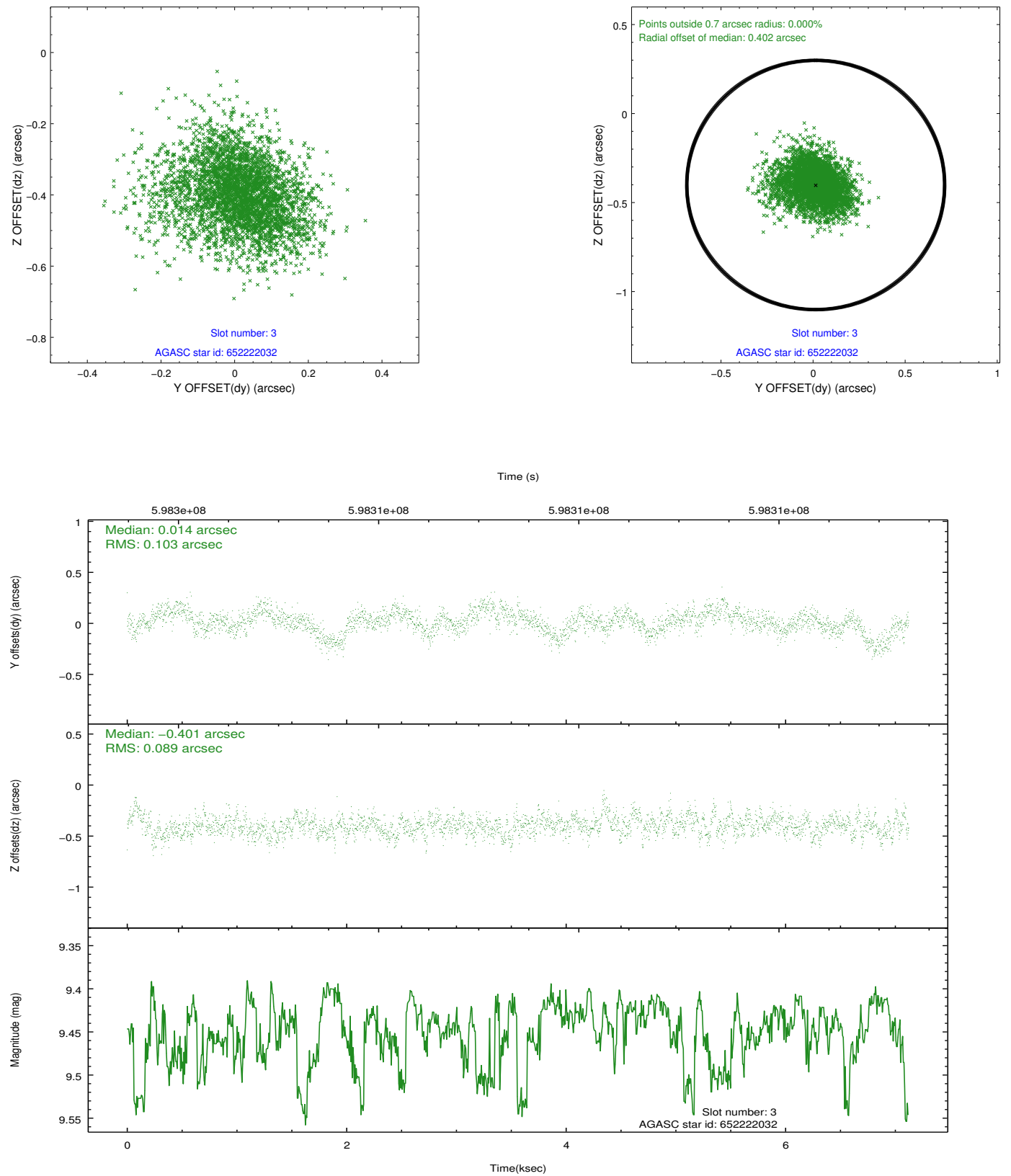


Slot Statistics

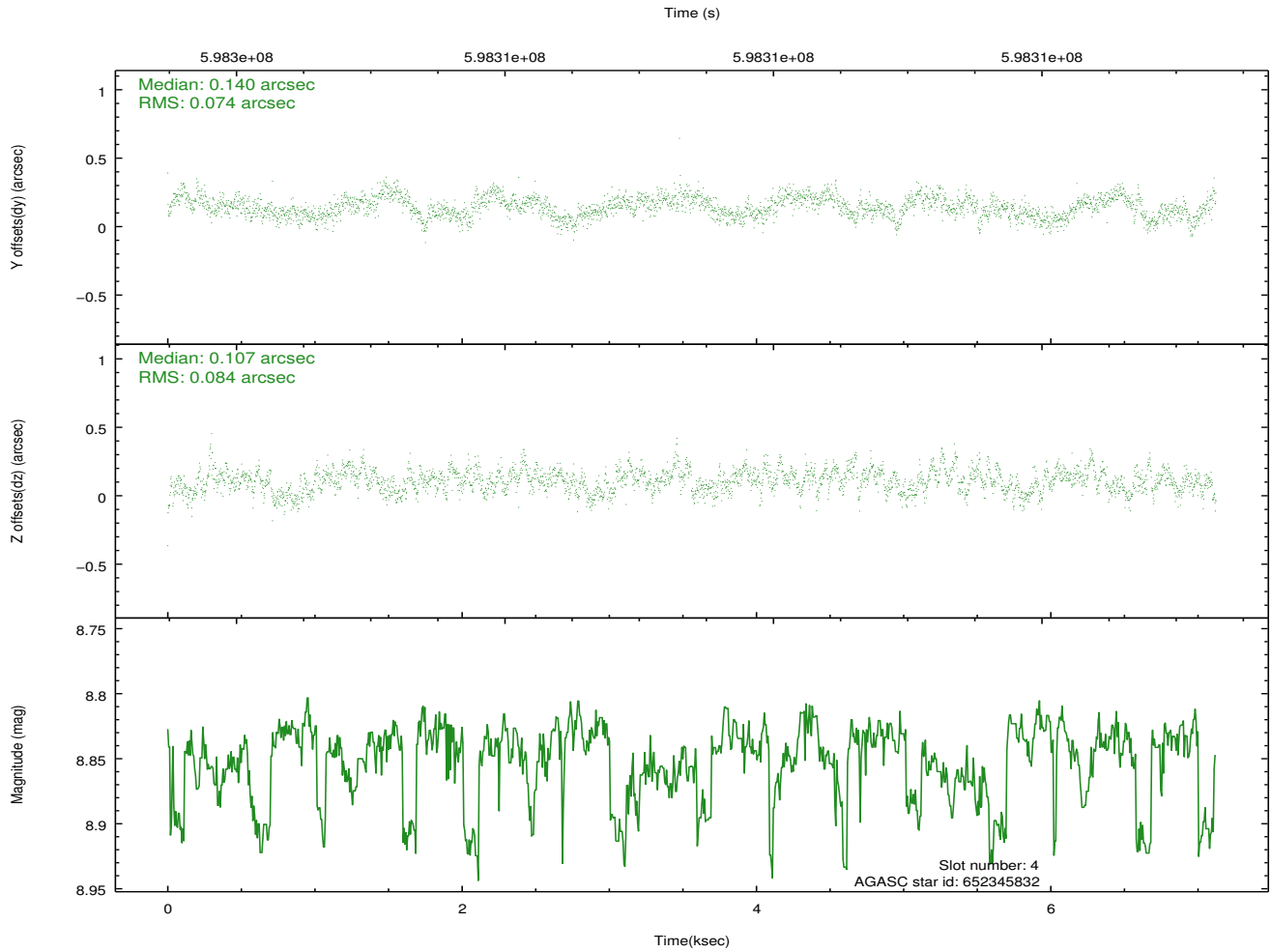
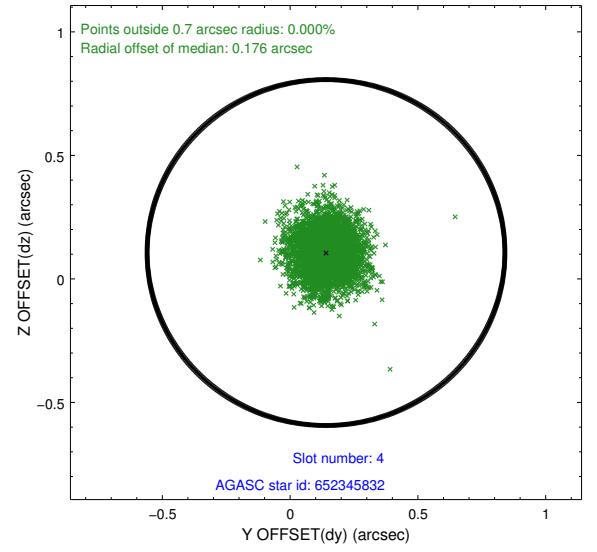
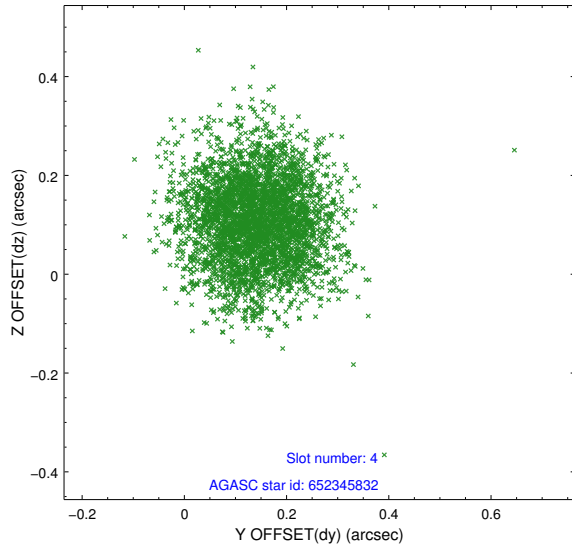
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.19	1737	0.032	-0.108	0.017	0.024	0.000000	0.000000	923.94	-1737.83
1	FID		ACIS-S-4	7.22	1737	0.397	0.064	0.013	0.022	0.000000	0.000000	2142.10	165.69
2	FID		ACIS-S-5	7.21	1737	-0.458	0.057	0.011	0.017	0.000000	0.000000	-1824.44	160.09
3	GUIDE	used	652222032	9.45	3469	0.014	-0.401	0.145	0.240	214.912251	-1.587190	-2087.00	493.95
4	GUIDE	used	652345832	8.85	3472	0.140	0.107	0.120	0.191	215.182682	-1.632926	-1760.63	-435.92
5	GUIDE	used	652346752	7.18	3474	-0.455	-0.178	0.111	0.186	215.693292	-0.637133	2265.16	-308.29
6	GUIDE	used	652349304	7.85	3475	0.128	0.208	0.109	0.180	215.704415	-1.571546	-656.62	-1972.20
7	GUIDE	used	652353576	7.18	3473	0.167	0.276	0.128	0.209	215.494065	-1.988084	-2336.35	-2035.86

2.4 Star Slots

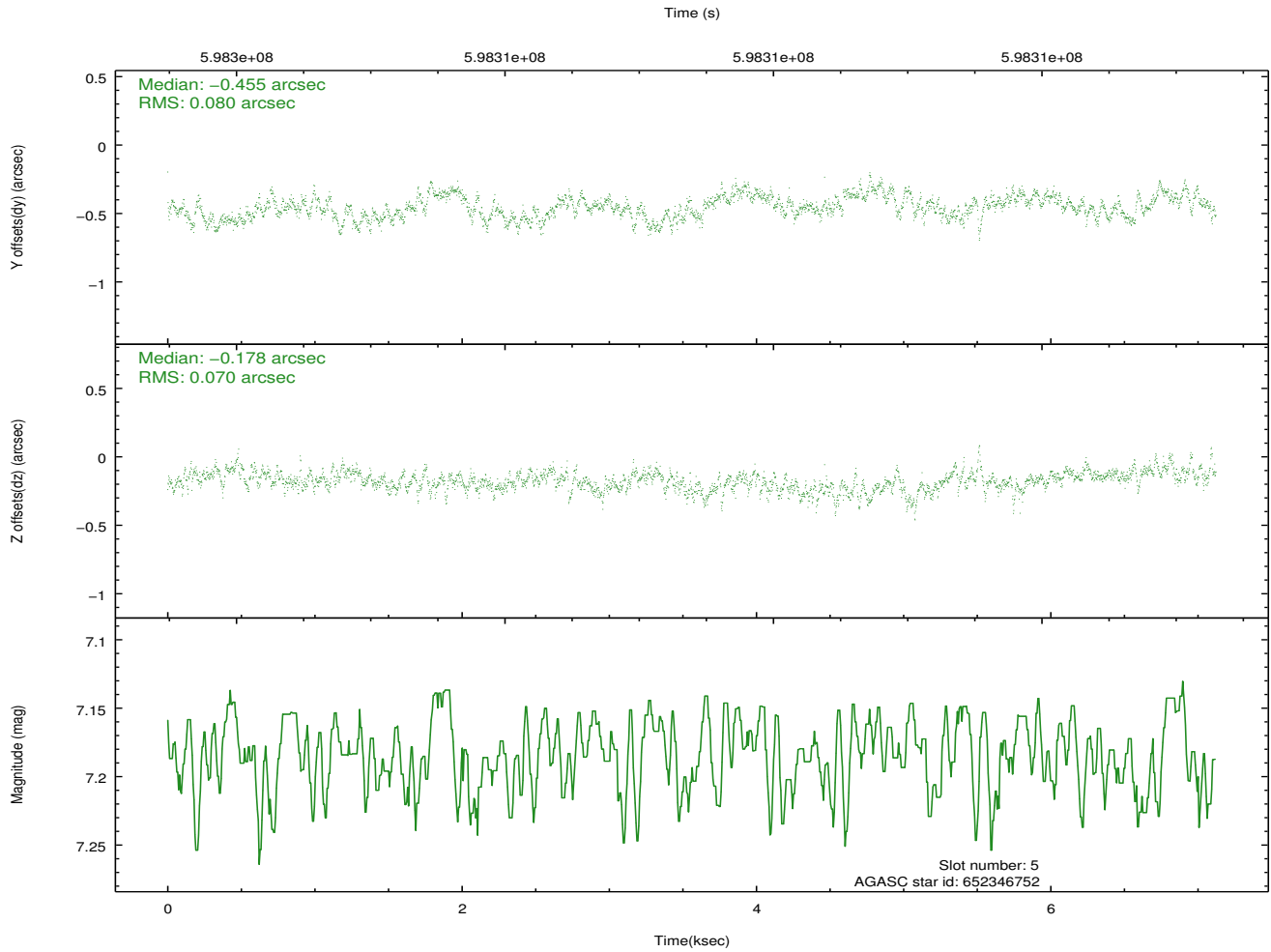
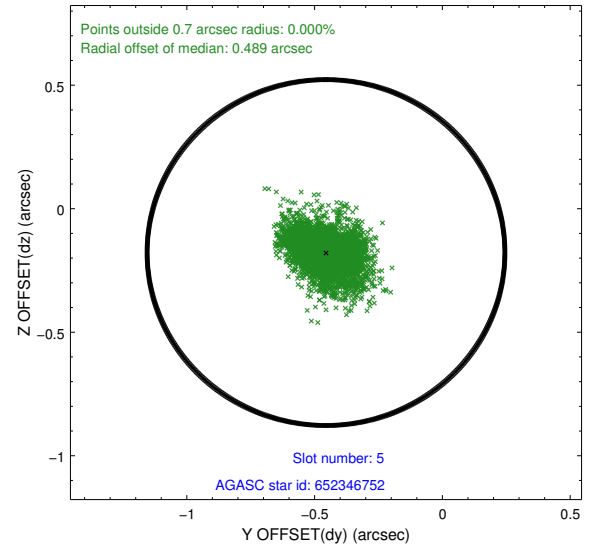
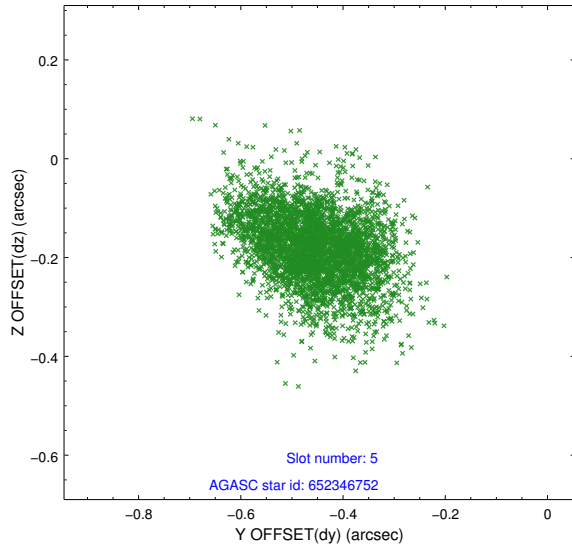
2.4.1 Slot 3



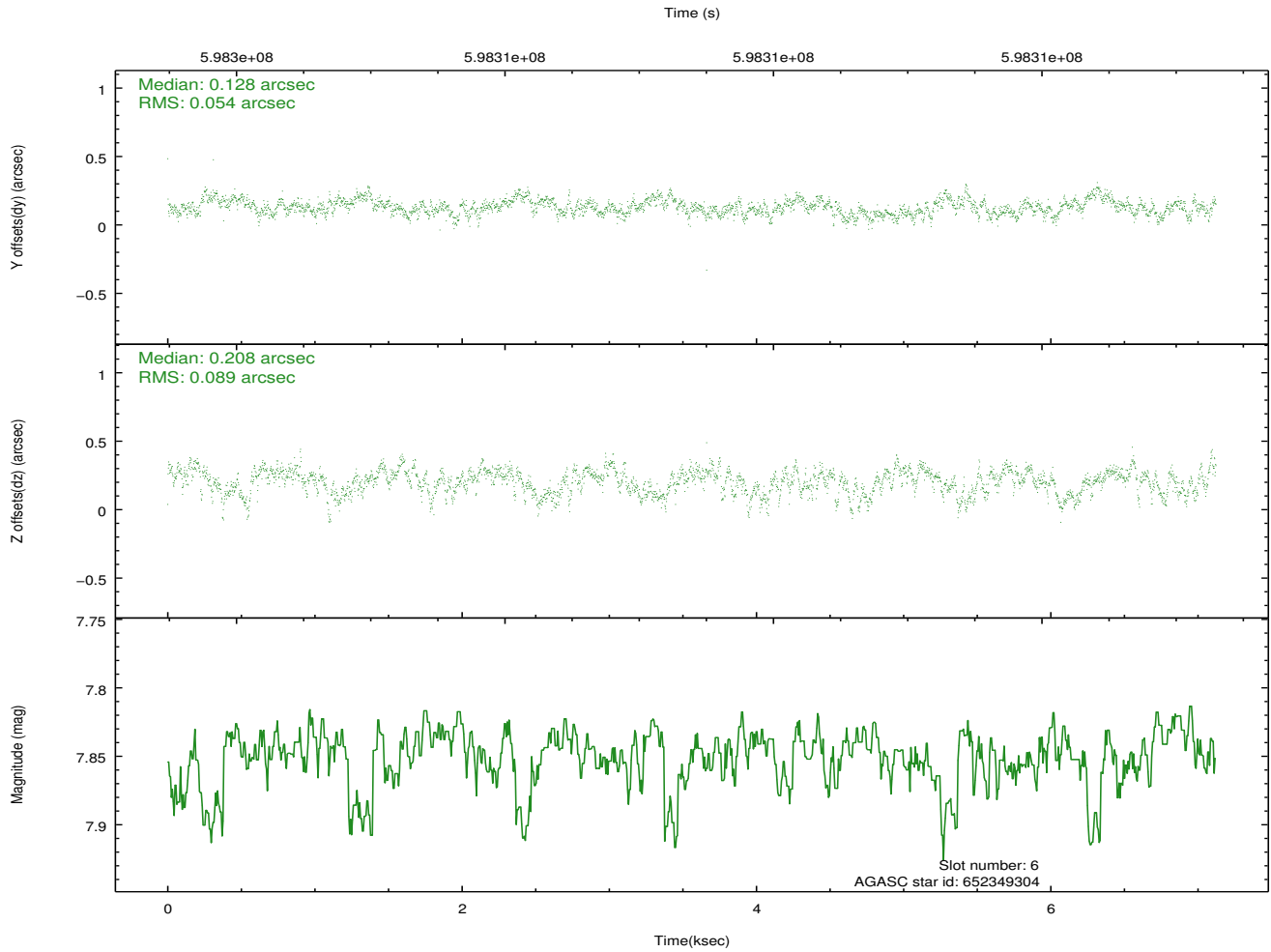
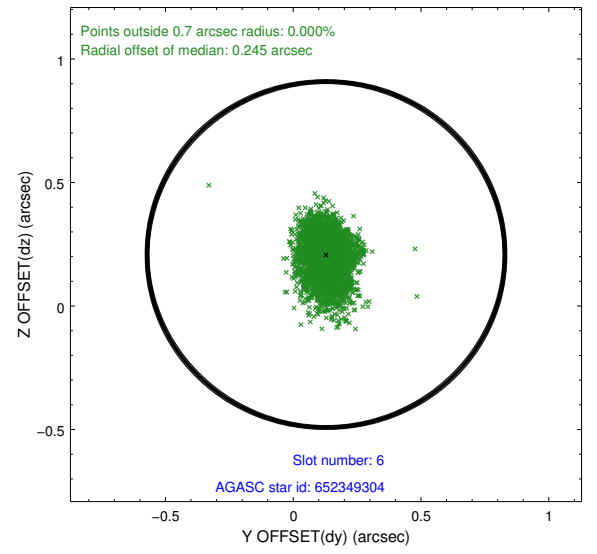
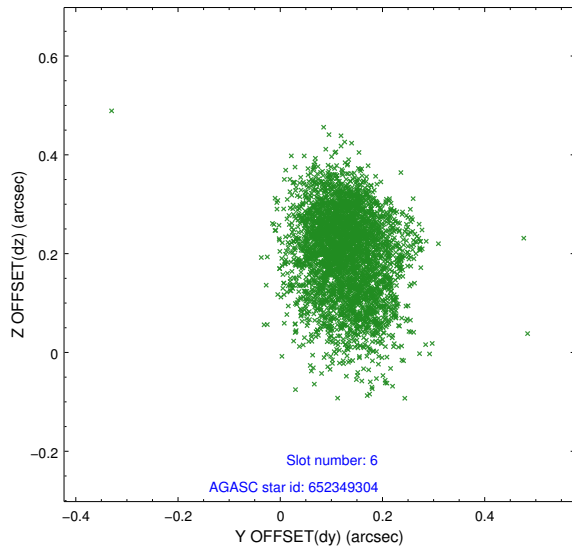
2.4.2 Slot 4



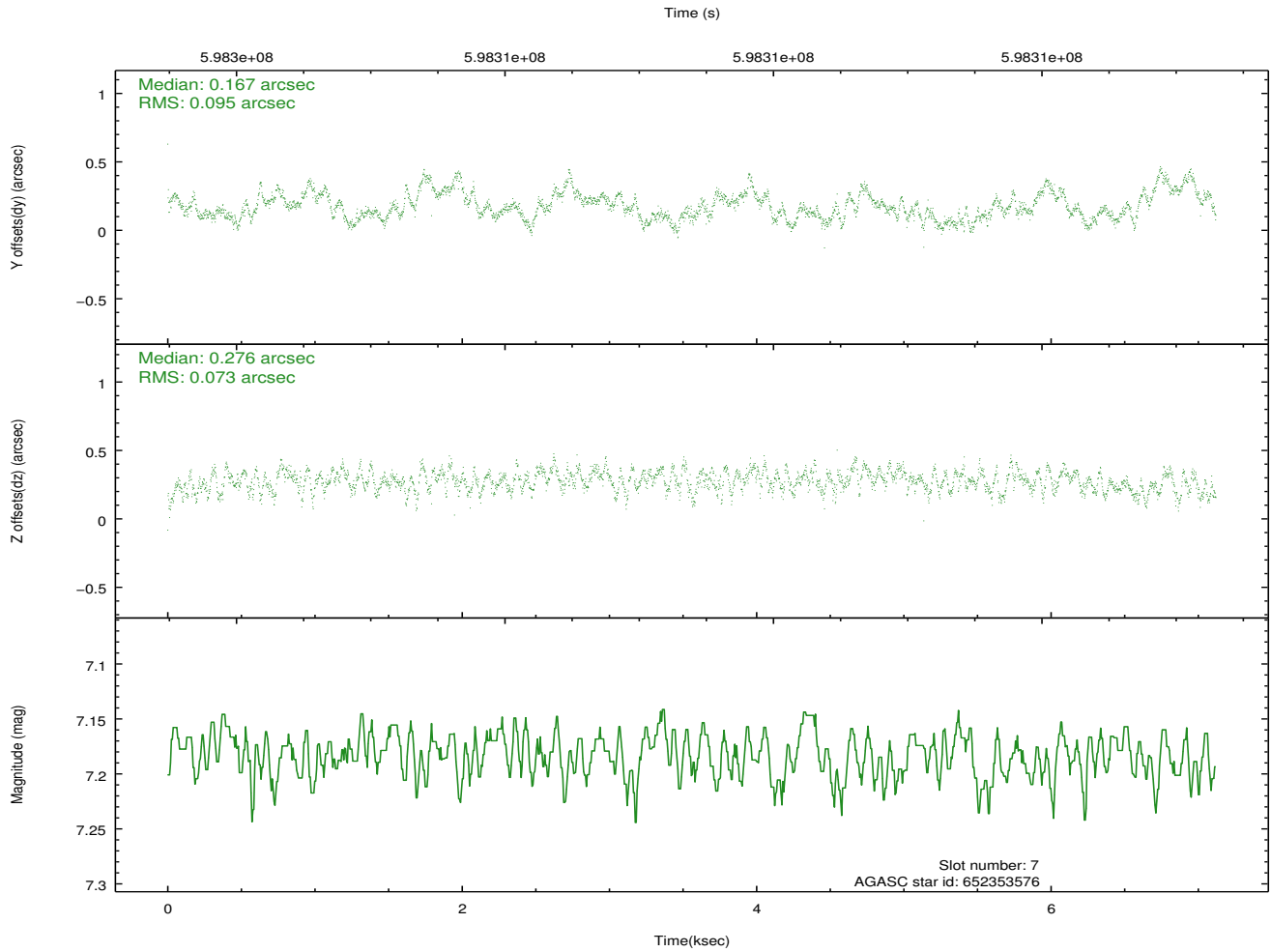
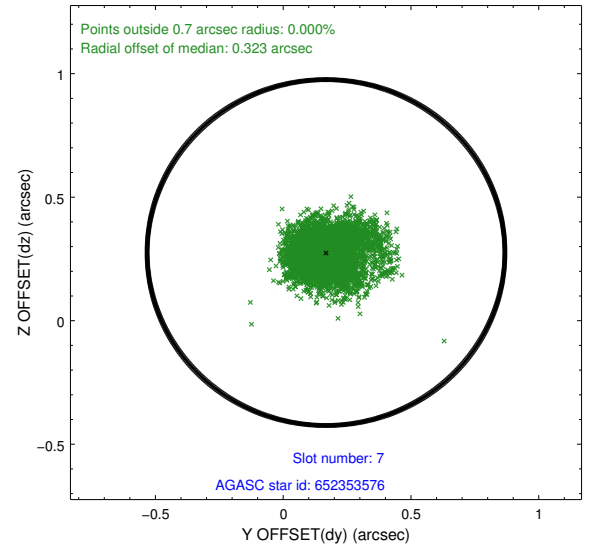
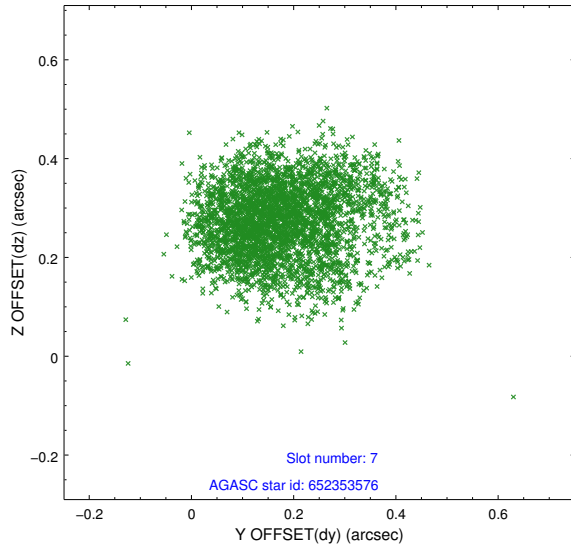
2.4.3 Slot 5



2.4.4 Slot 6

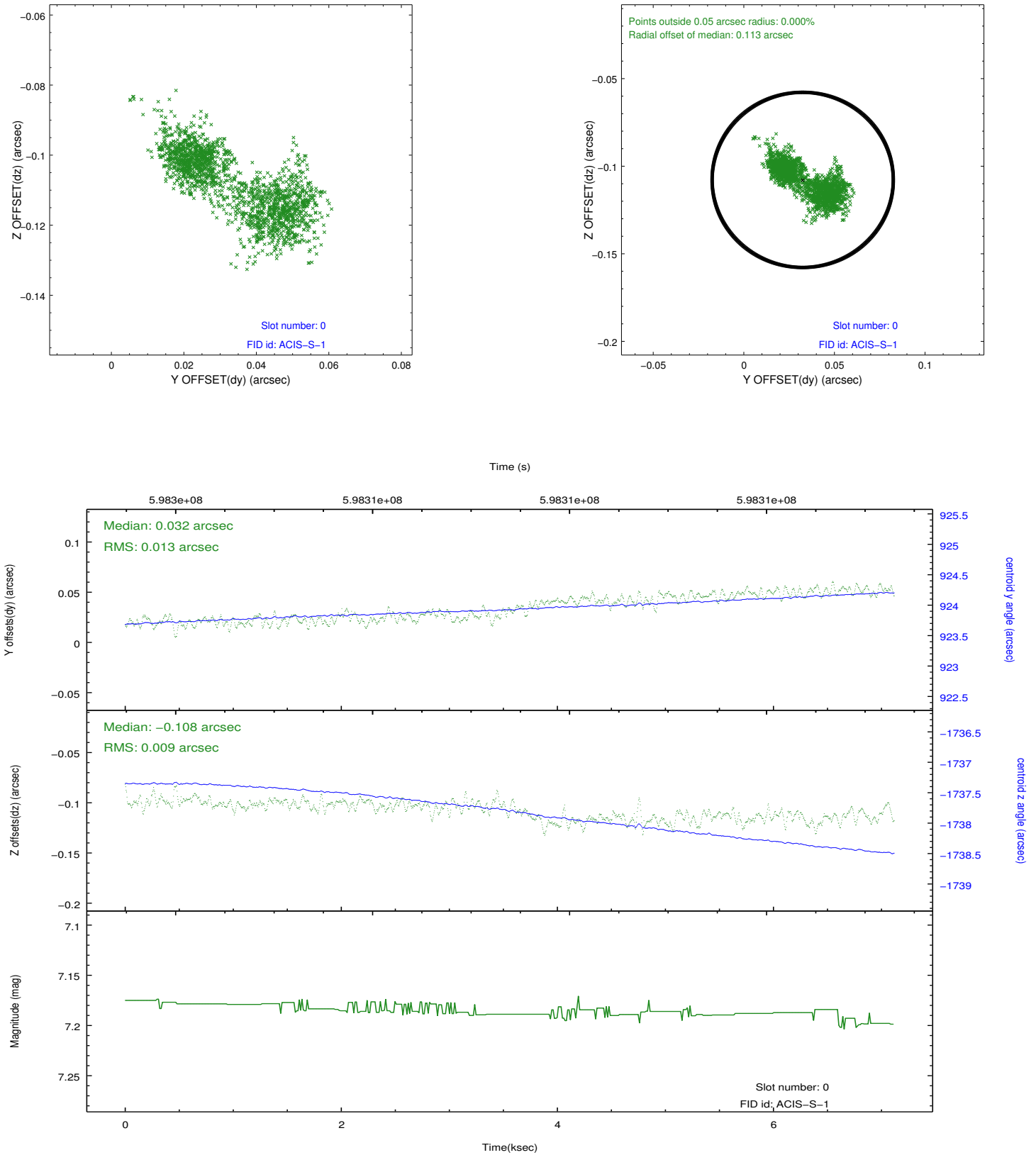


2.4.5 Slot 7

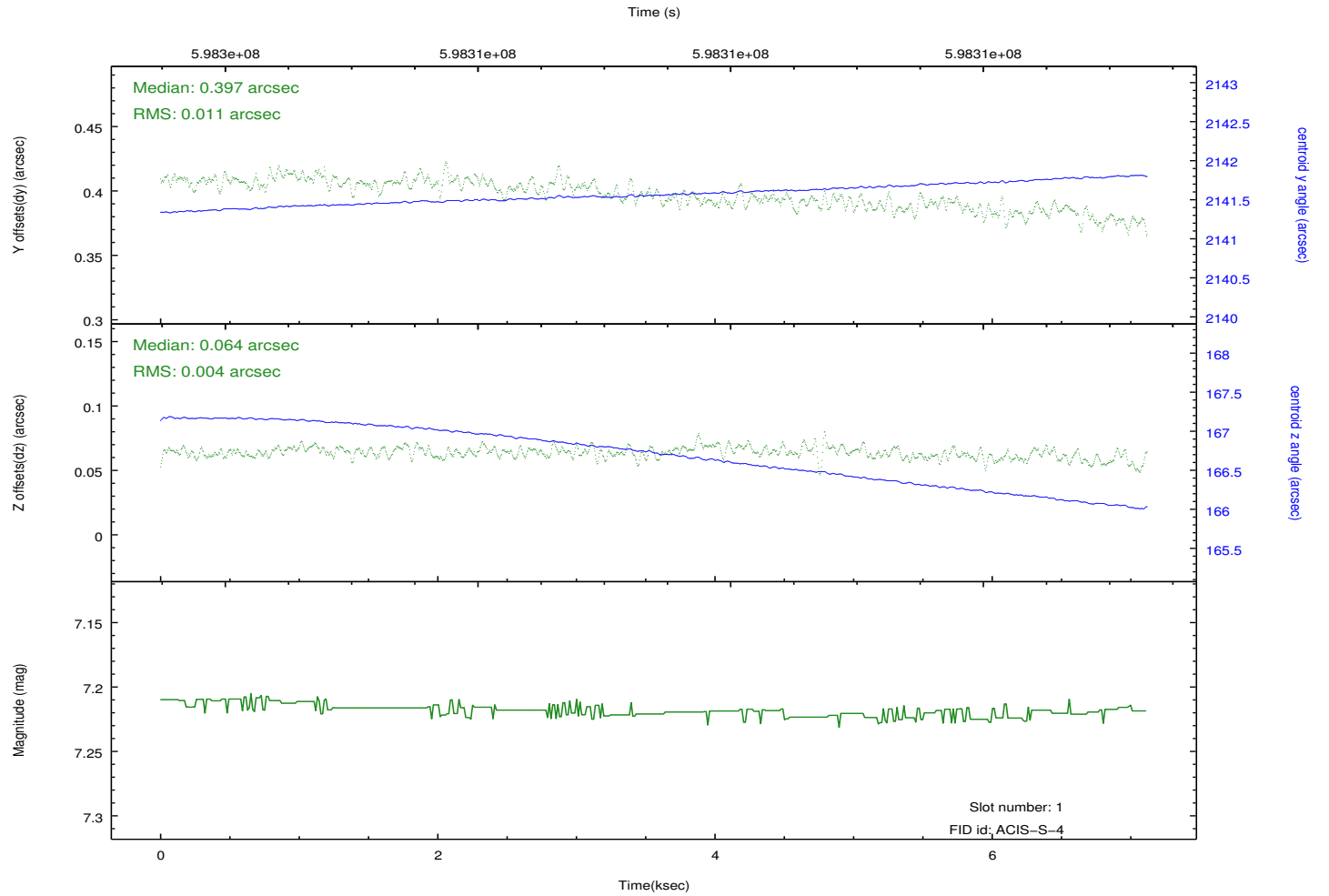
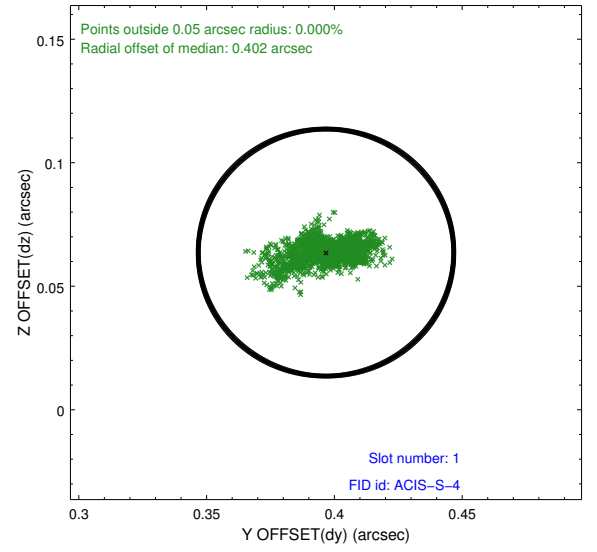
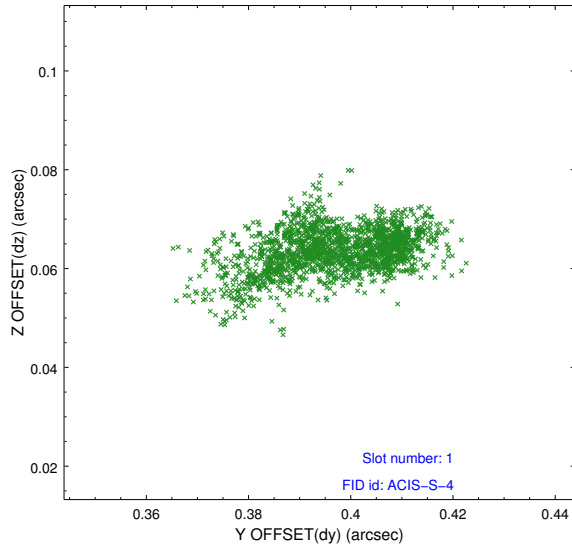


2.5 FID Slots

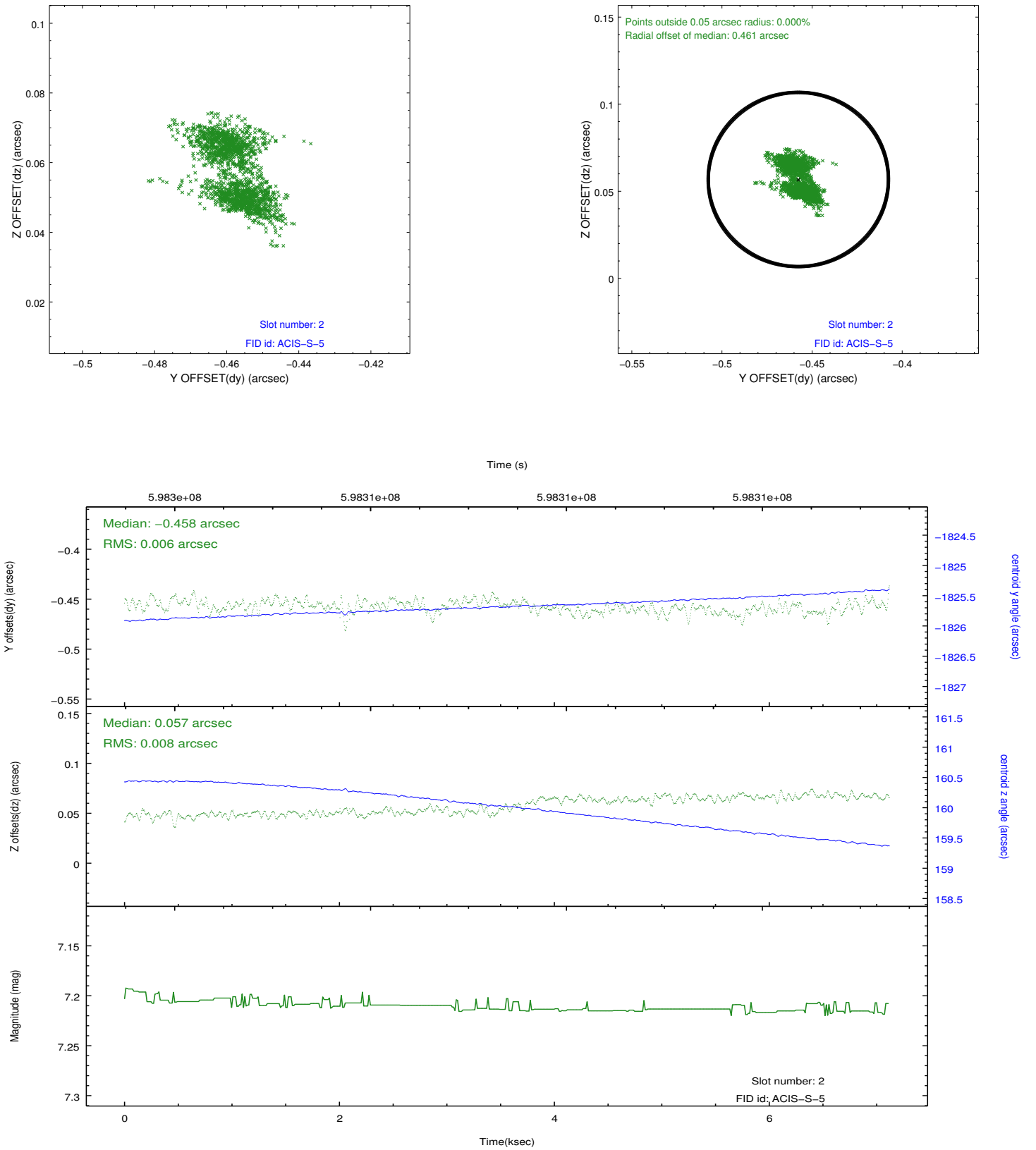
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2016.12.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.940800103426

A.2 Comments