

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 18940 - L2 Version 1
Chandra X-Ray Center

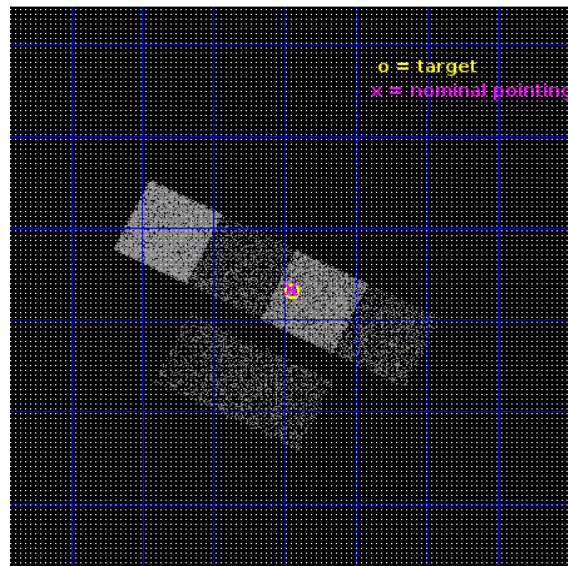
L2 Processing Date : Nov 25 2016

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1 Front

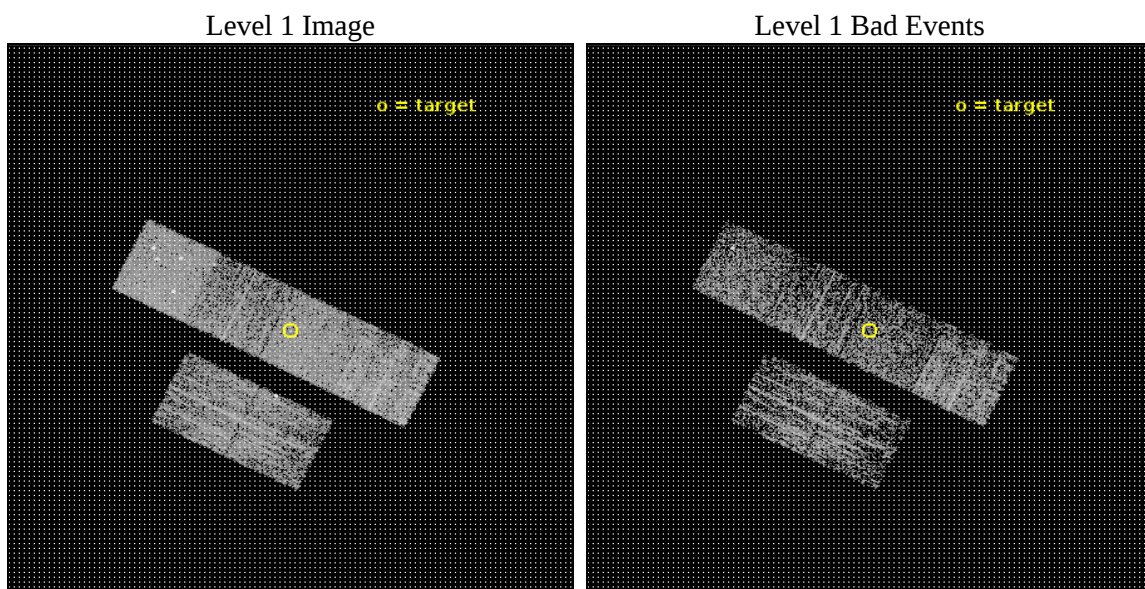
seq_num	201133	Sequence number
obs_id	18940	Observation id
title	Probing the Dynamo Mechanism in Fully Convective Stars	Proposal ti
observer	Nicholas Wright	Principal investigator
object	2MASS J05015746-0656459	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	75.486667	Observer's specified target RA [deg]
dec_targ	-6.94875	Observer's specified target Dec [deg]
ra_nom	75.487744745059	Nominal RA [deg]
dec_nom	-6.9440519358161	Nominal Dec [deg]
roll_nom	26.346157101654	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1932.800028801	Sum of GTIs [s]
livetime	1908.3257510438	Livetime [s]
ontime2	1932.800028801	Sum of GTIs [s]
ontime3	1932.800028801	Sum of GTIs [s]
ontime5	1932.800028801	Sum of GTIs [s]
ontime6	1932.800028801	Sum of GTIs [s]
ontime7	1932.800028801	Sum of GTIs [s]
ontime8	1923.0768079758	Sum of GTIs [s]
l2events	21643	Number of level 2 events



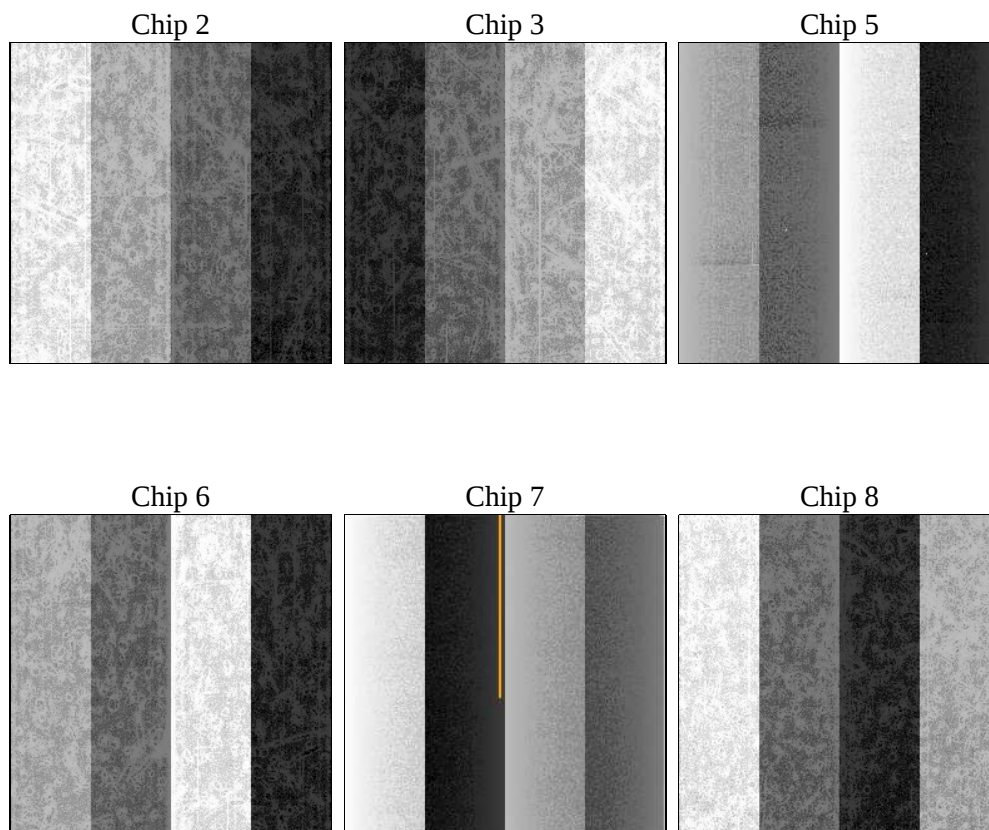
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	2180.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	1932.800028801	Sum of GTIs [s]
caldsver	4.7.2	 	ontime2	1932.800028801	Sum of GTIs [s]
date	2016-11-26T01:25:56	Date and time of file creation	ontime3	1932.800028801	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	1932.800028801	Sum of GTIs [s]
			ontime6	1932.800028801	Sum of GTIs [s]
			ontime7	1932.800028801	Sum of GTIs [s]
			ontime8	1923.0768079758	Sum of GTIs [s]
			l1events	98738	Number of level 1 events

2.1.4 Events

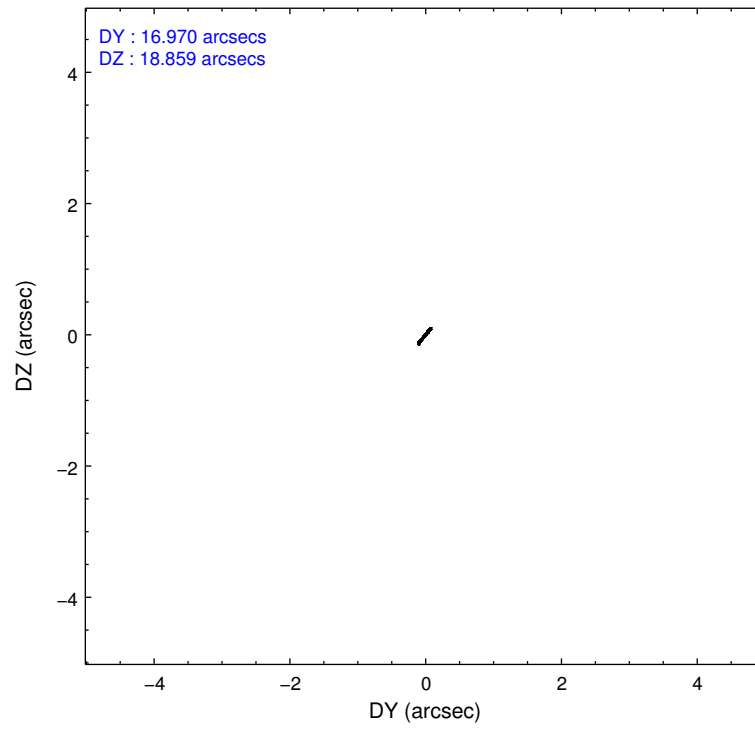
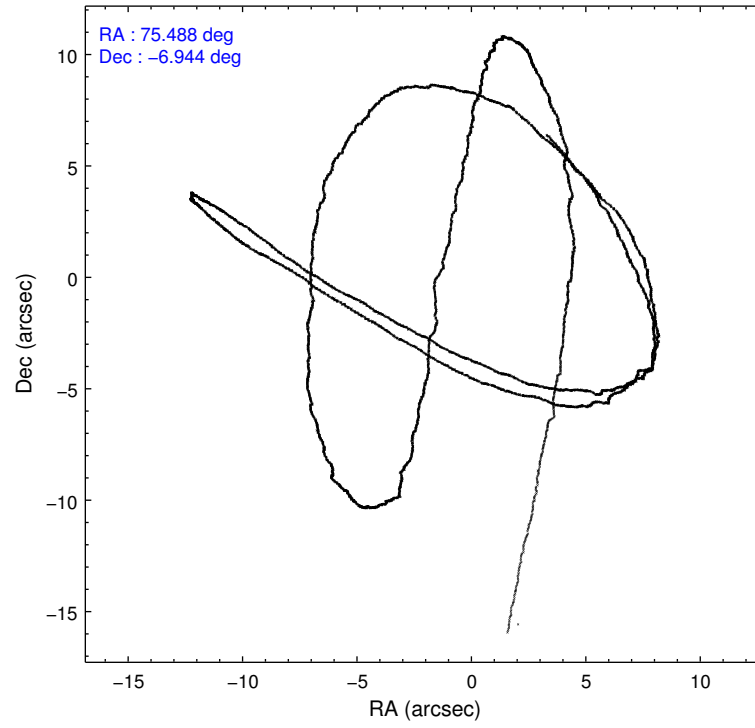
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	13616	13396	22529	11896	16838	20463
rejected events	12229	11496	11153	10443	9436	15970
rejected %	89%	85%	49%	87%	56%	78%

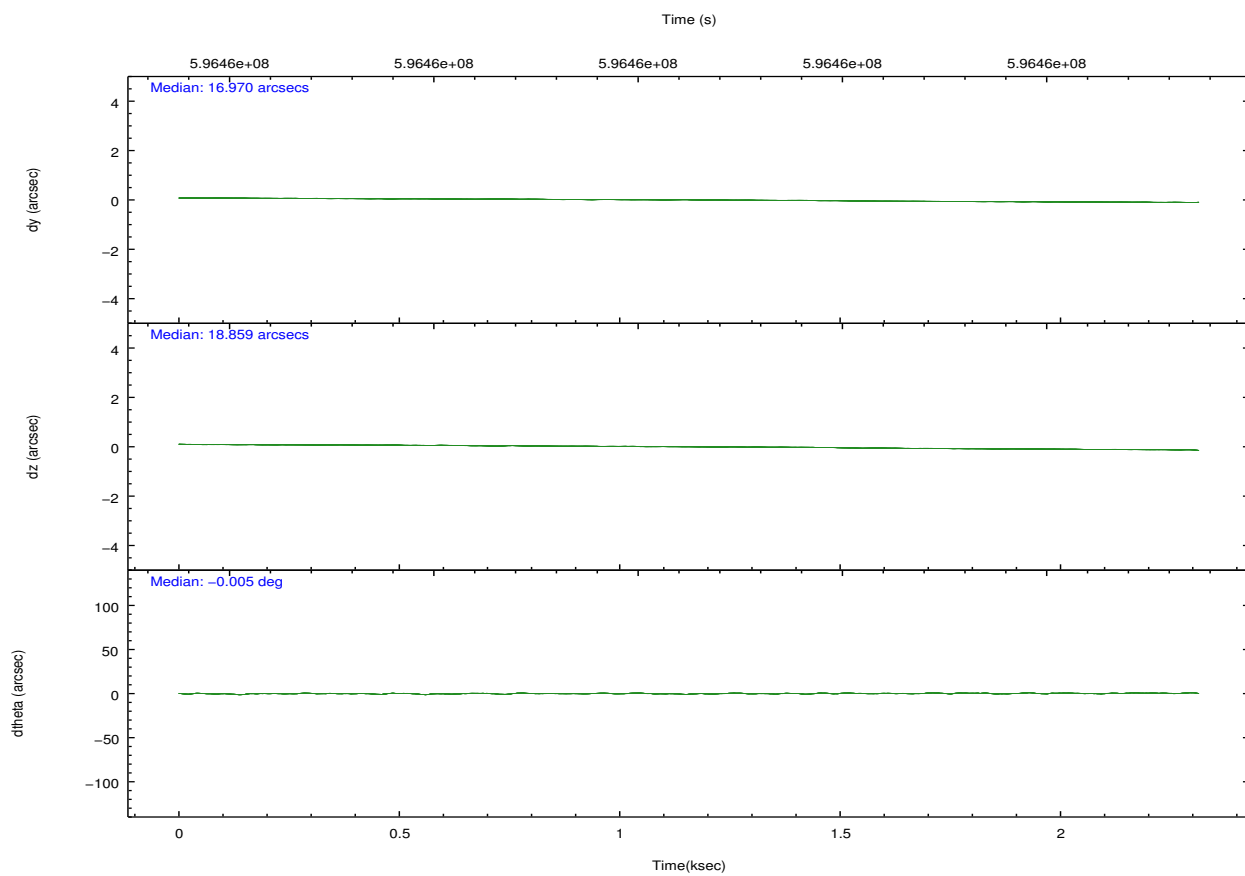
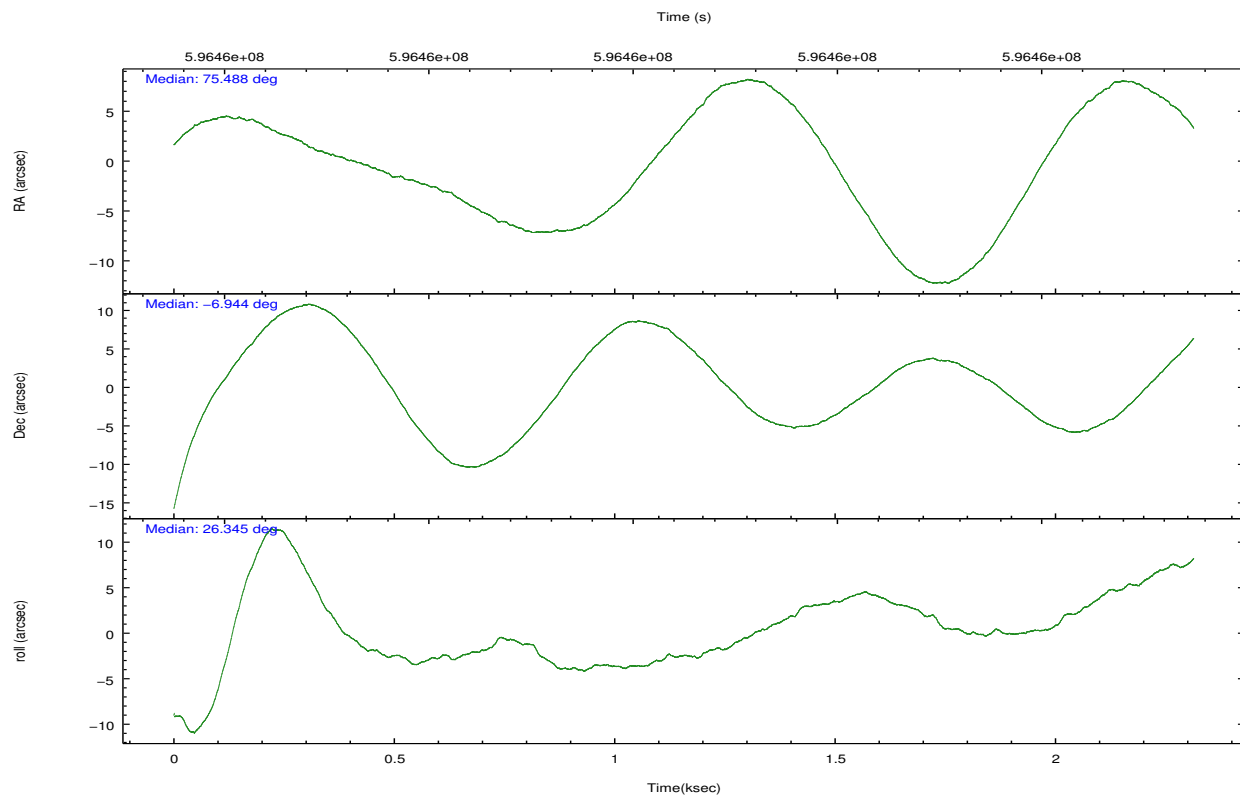
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	460	461	1991	467	705	1287
	3%	3%	8%	3%	4%	6%
grade 1 events	9	4	35	6	23	20
	0%	0%	0%	0%	0%	0%
grade 2 events	379	855	3288	329	1639	1043
	2%	6%	14%	2%	9%	5%
grade 3 events	147	158	356	151	597	490
	1%	1%	1%	1%	3%	2%
grade 4 events	130	132	340	153	608	468
	0%	0%	1%	1%	3%	2%
grade 5 events	540	587	1542	621	1642	894
	3%	4%	6%	5%	9%	4%
grade 6 events	272	301	5438	359	3871	1210
	1%	2%	24%	3%	22%	5%
grade 7 events	11679	10898	9539	9810	7753	15051
	85%	81%	42%	82%	46%	73%

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	75.472526	75.48774474505895	CCD I2 on	O1	Y
[deg] Pointing Dec	-6.967137	-6.944051935816107	CCD I3 on	O2	Y
[deg] Pointing Roll	26.187708	26.34615710165404	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	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	596461602.184000	596460538.65598	CCD S5 on	N	N
Observation start date	2016-11-25T11:45:34	2016-11-25T11:28:58	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	596463782.184000	596464804.70623	On-chip summing requested	N	N
Observation end date	2016-11-25T12:21:54	2016-11-25T12:40:04	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



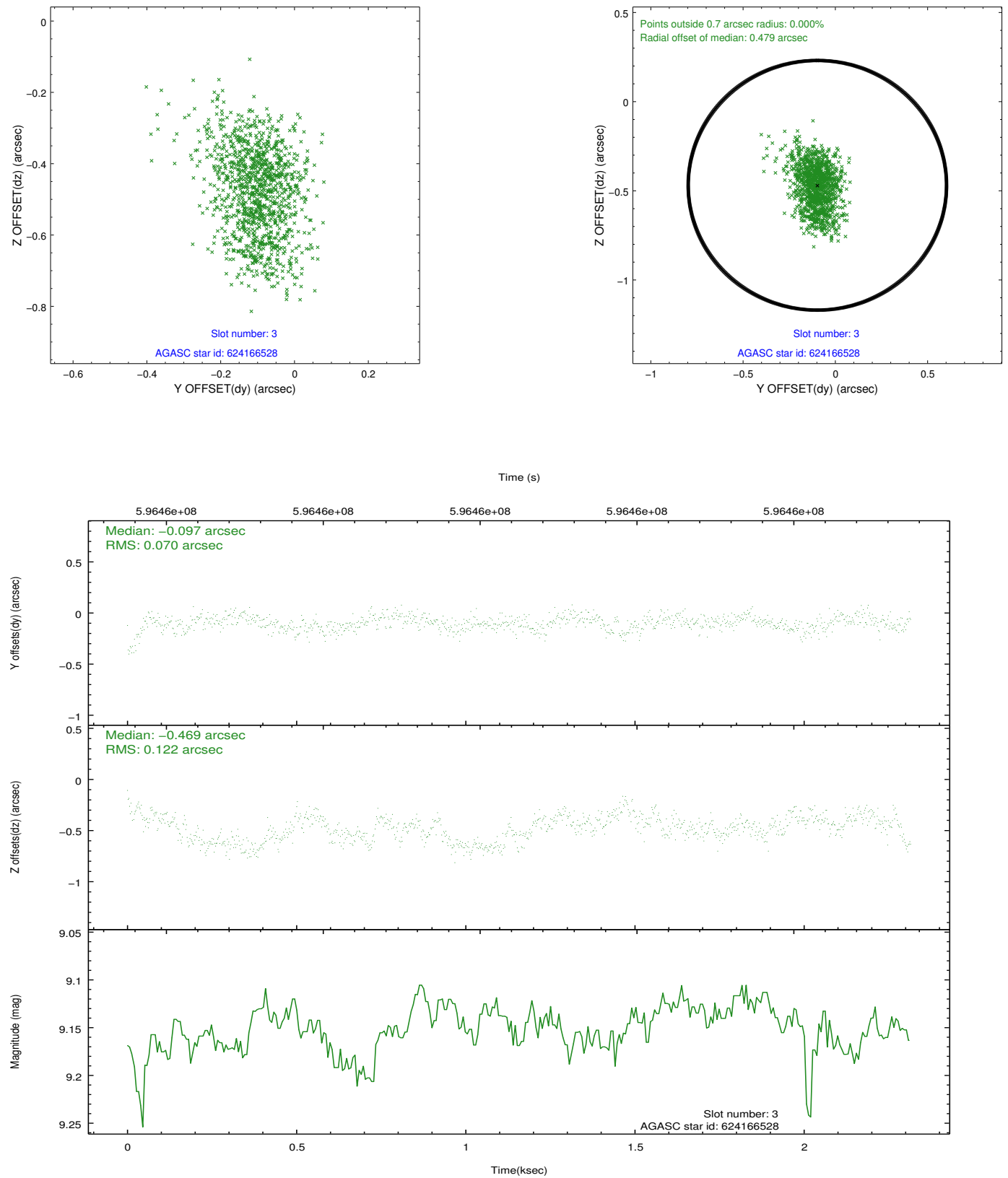


Slot Statistics

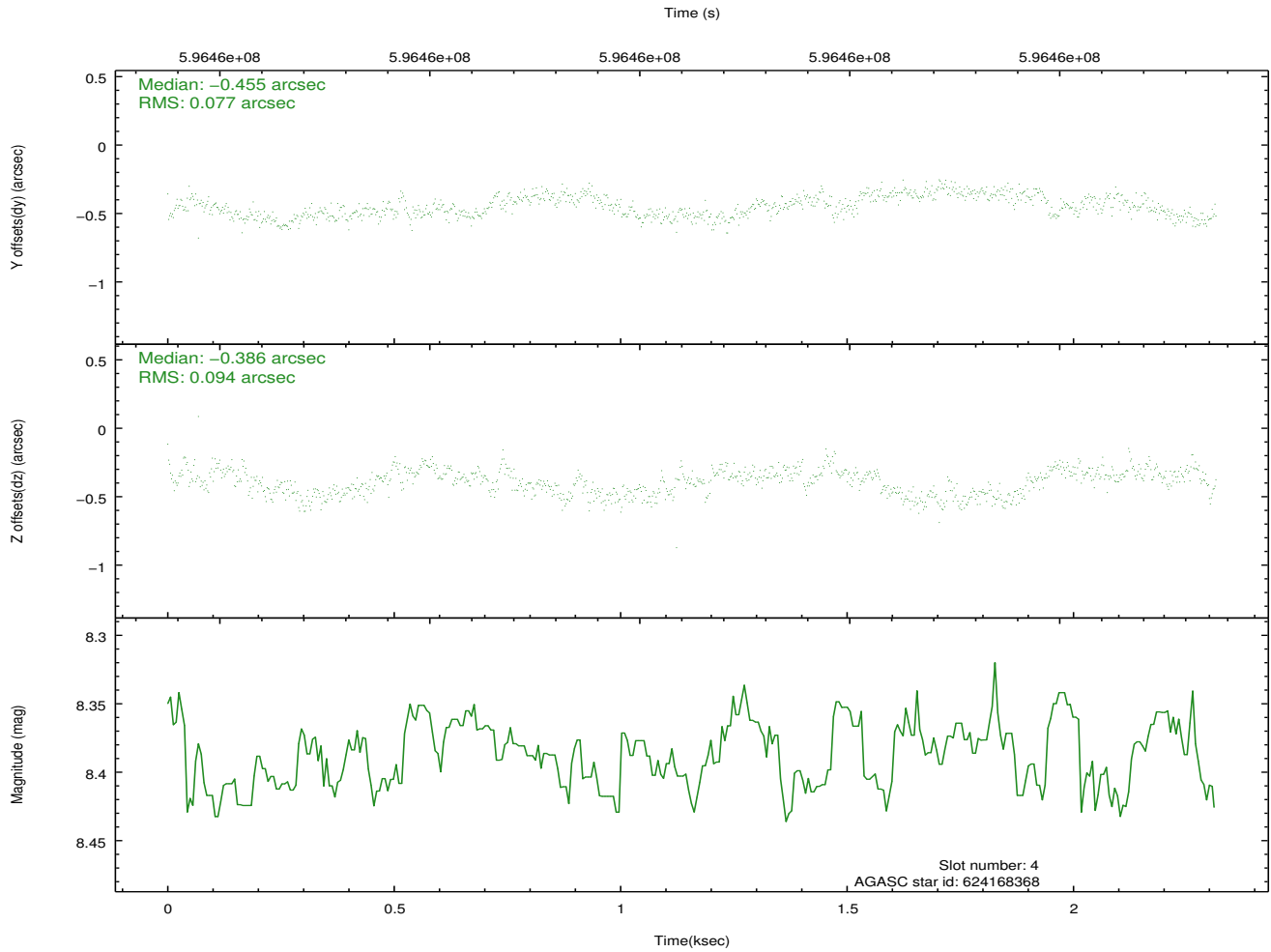
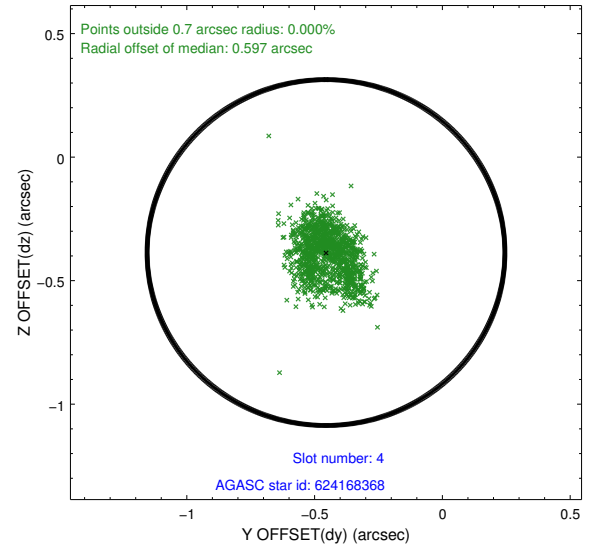
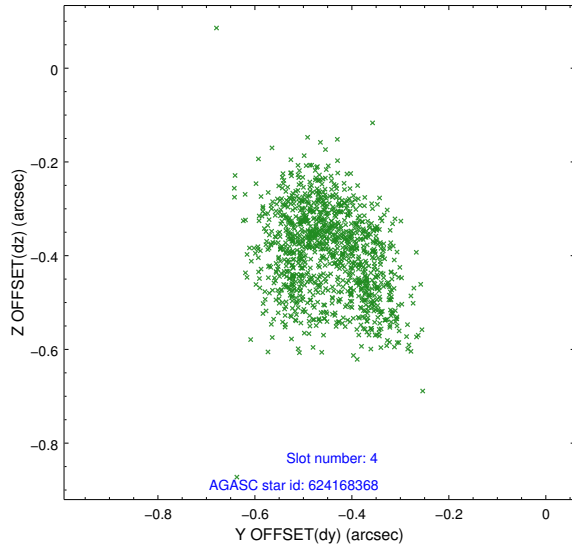
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.00	565	-0.185	-0.100	0.007	0.012	0.000000	0.000000	-770.14	-1740.44
1	FID		ACIS-S-4	7.11	565	0.429	0.116	0.005	0.009	0.000000	0.000000	2142.43	165.38
2	FID		ACIS-S-5	7.10	565	-0.275	-0.007	0.007	0.011	0.000000	0.000000	-1819.51	162.06
3	GUIDE	used	624166528	9.15	1129	-0.097	-0.469	0.149	0.245	75.495214	-7.123574	-176.16	-541.34
4	GUIDE	used	624168368	8.39	1130	-0.455	-0.386	0.128	0.204	75.685765	-7.034269	576.10	-553.82
5	GUIDE	used	624168528	8.90	1128	0.033	-0.253	0.174	0.265	75.446707	-7.376295	-732.87	-1281.80
6	GUIDE	used	624171136	9.10	1130	0.610	1.253	0.173	0.284	75.494130	-6.445900	896.90	1649.88
7	GUIDE	used	697704856	9.56	1127	-0.100	-0.109	0.249	0.383	75.182457	-7.531645	-1825.50	-1365.47

2.4 Star Slots

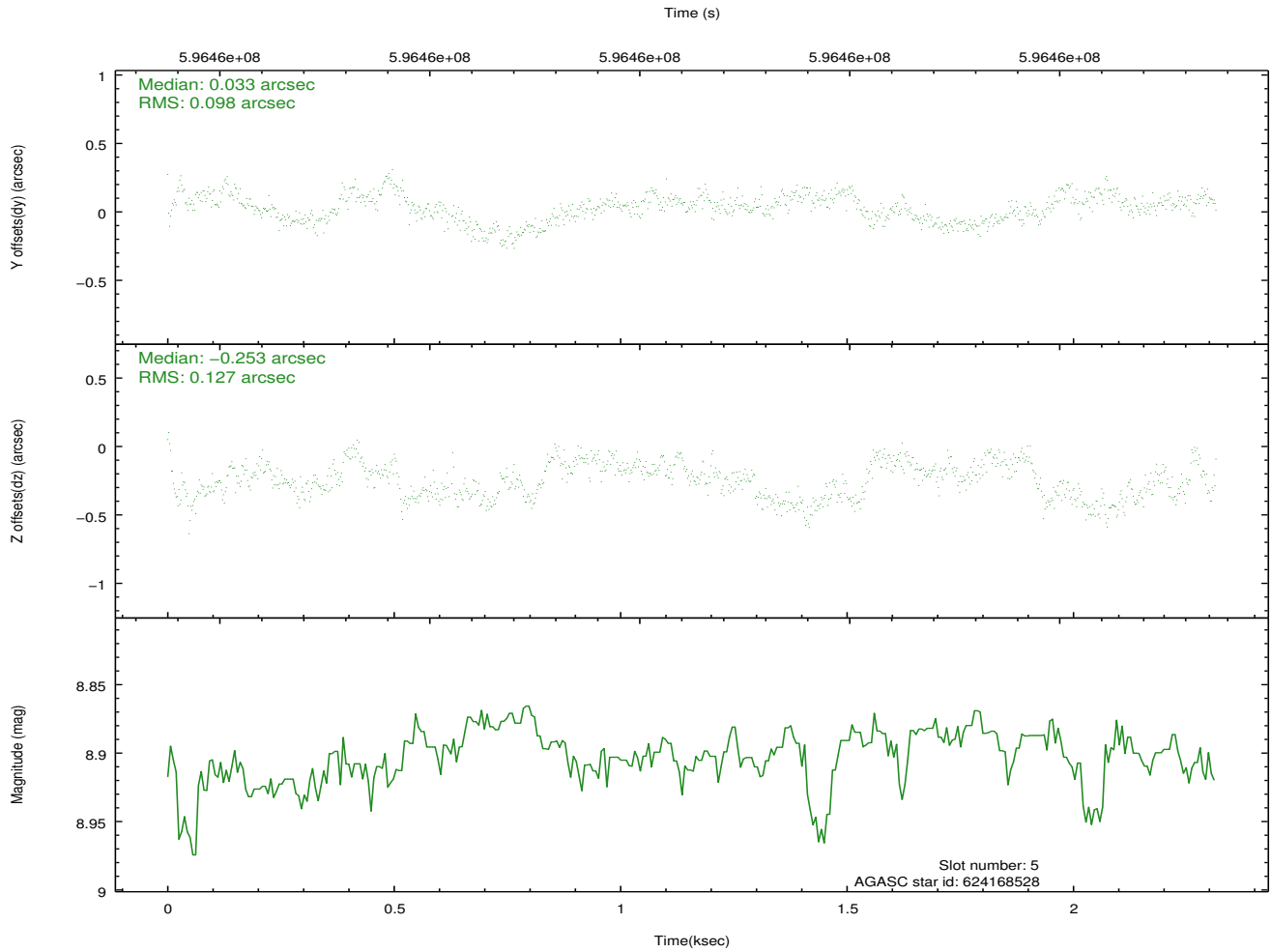
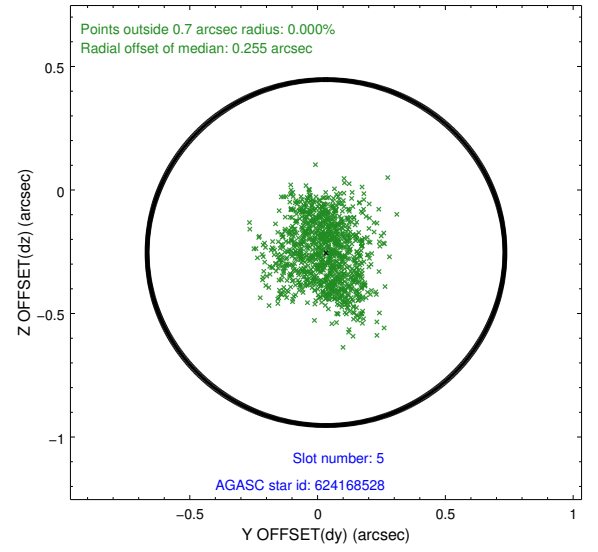
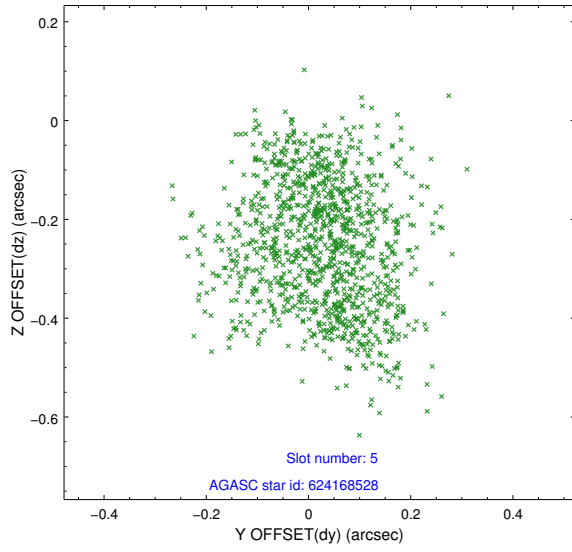
2.4.1 Slot 3



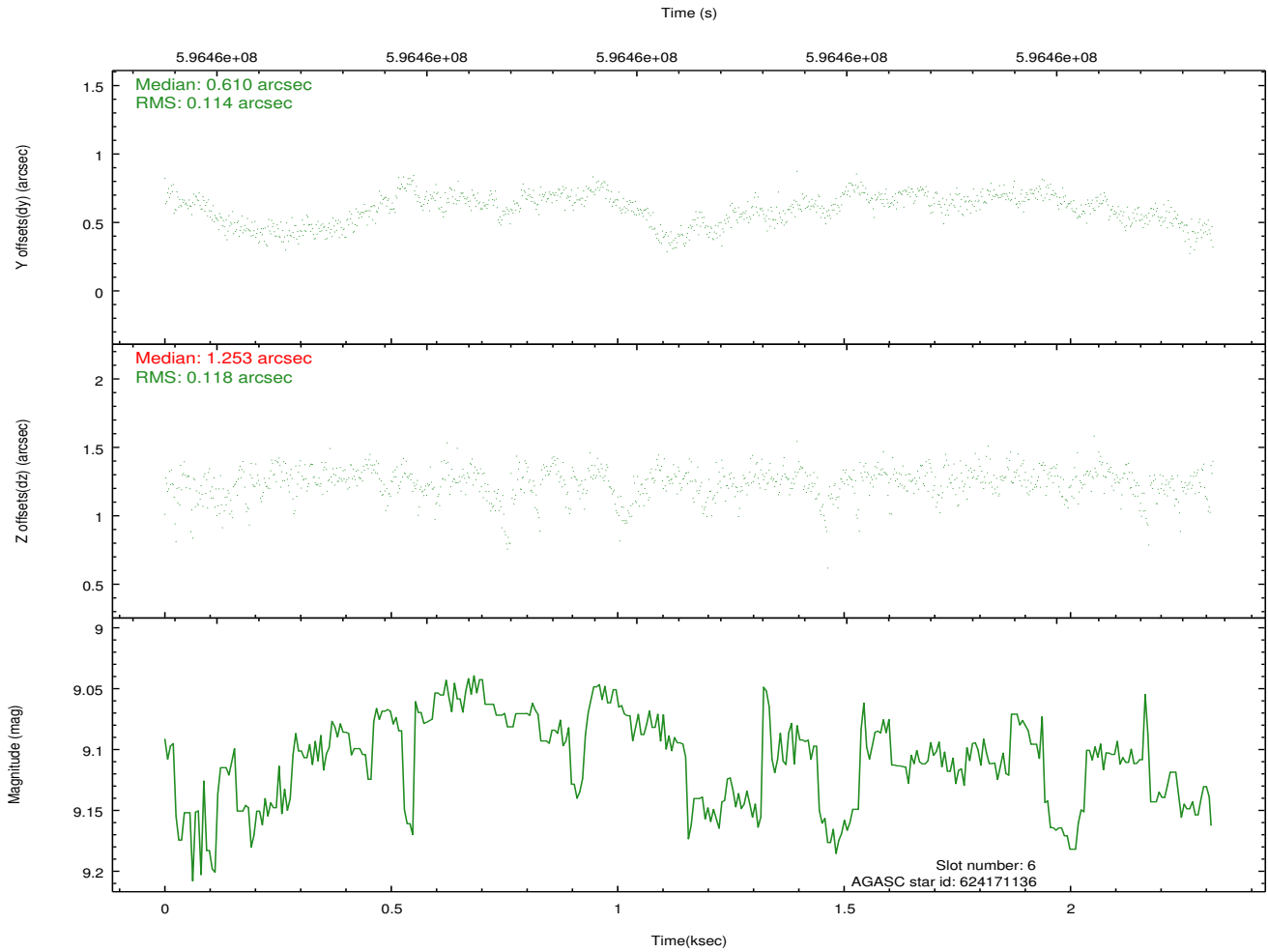
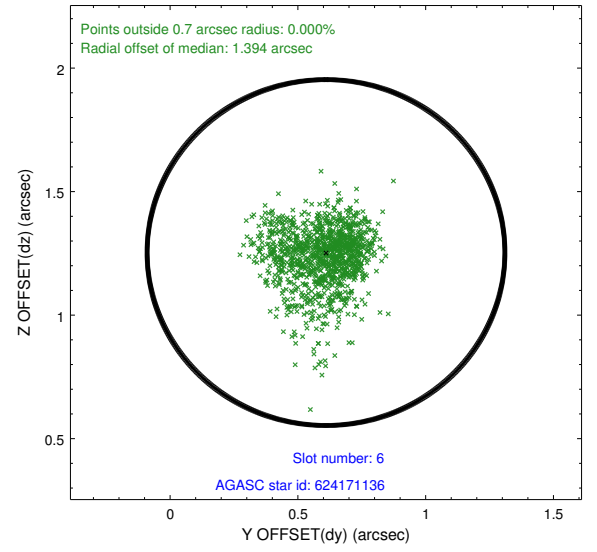
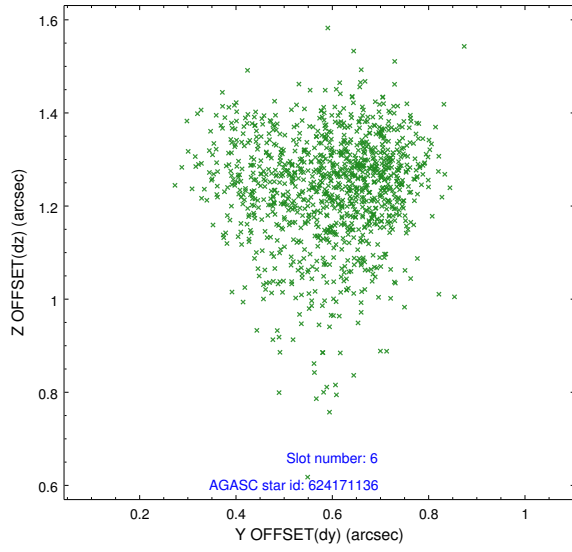
2.4.2 Slot 4



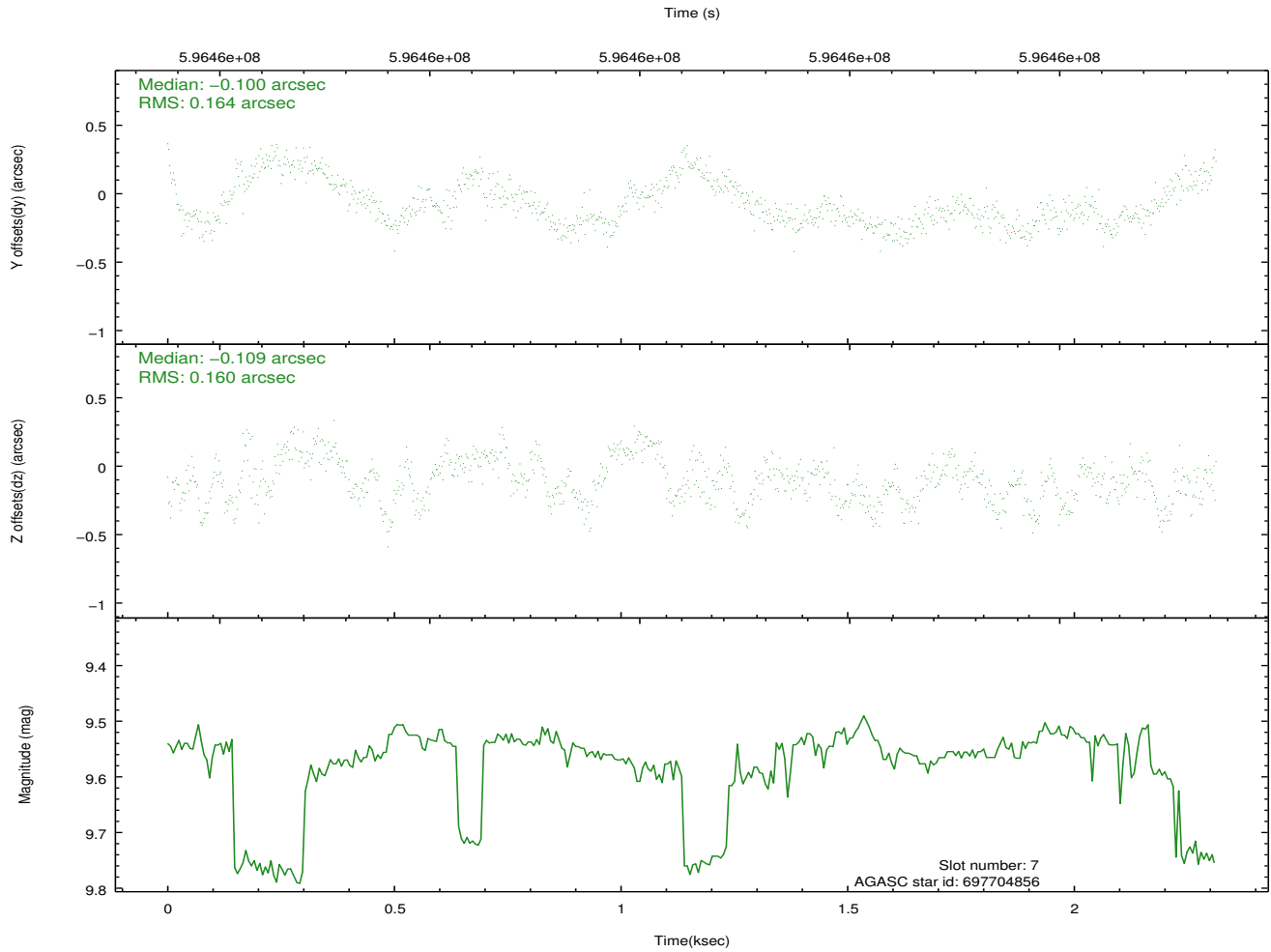
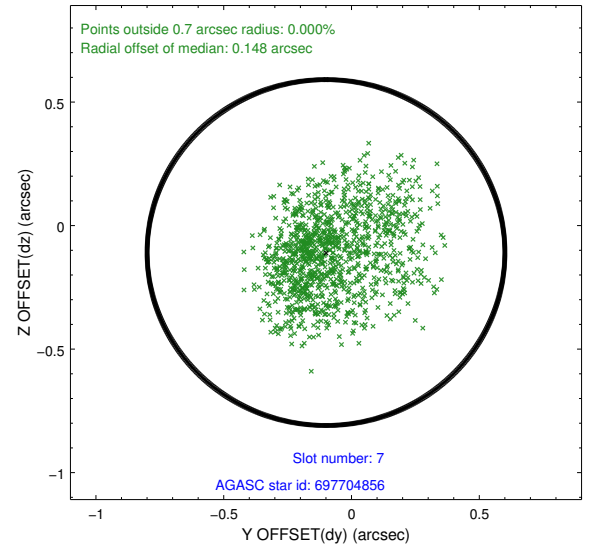
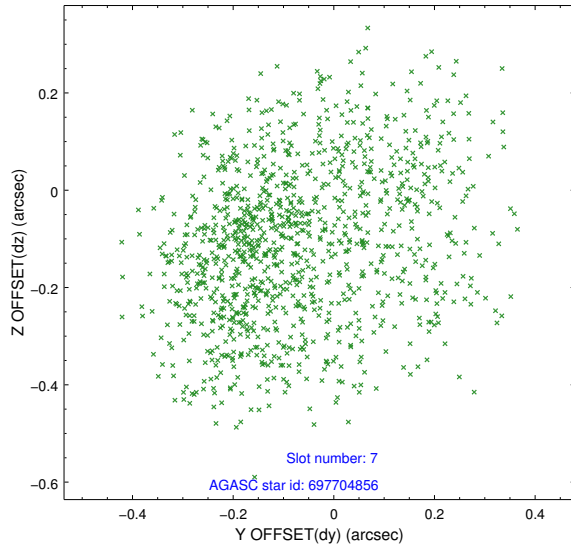
2.4.3 Slot 5



2.4.4 Slot 6

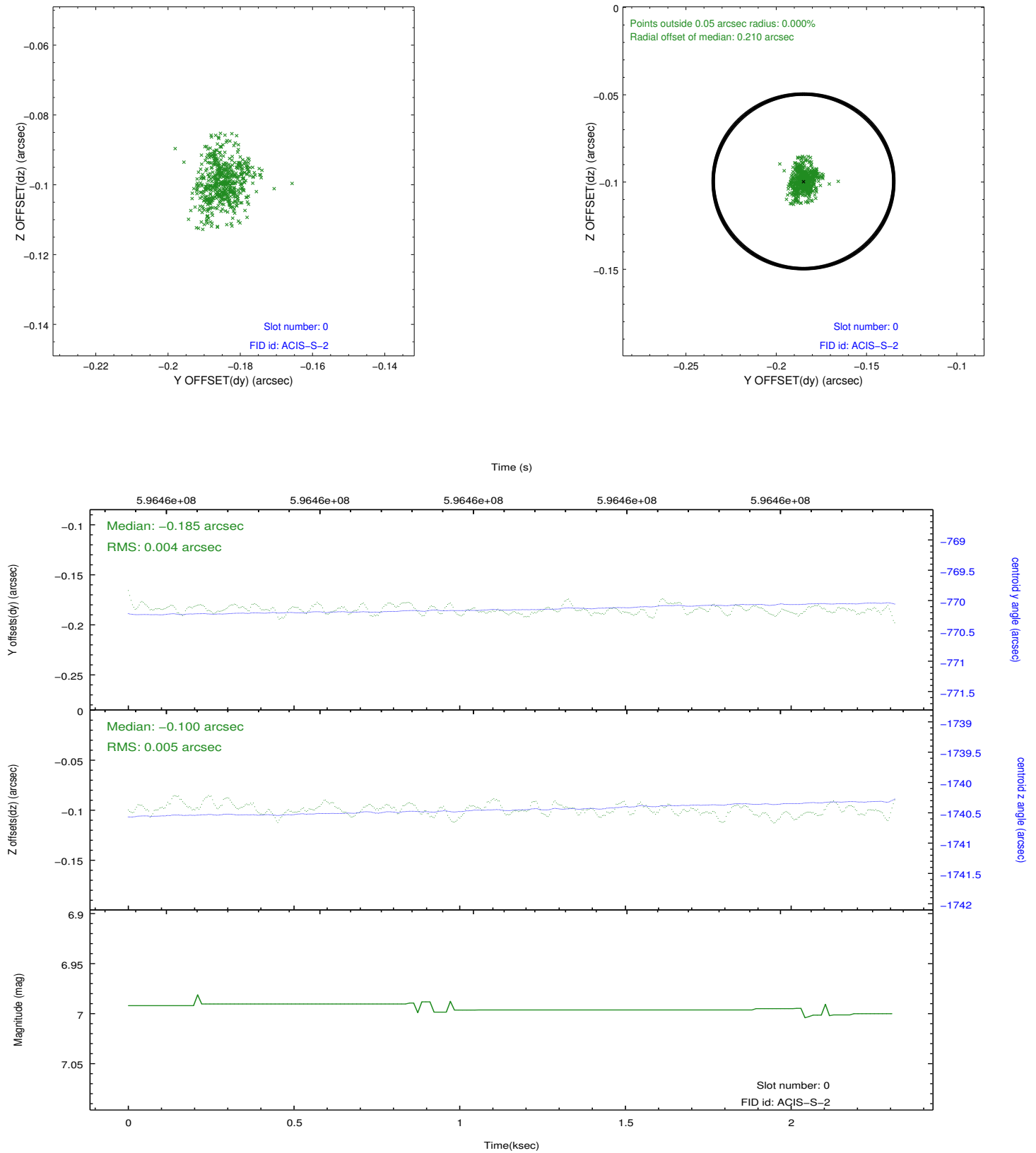


2.4.5 Slot 7

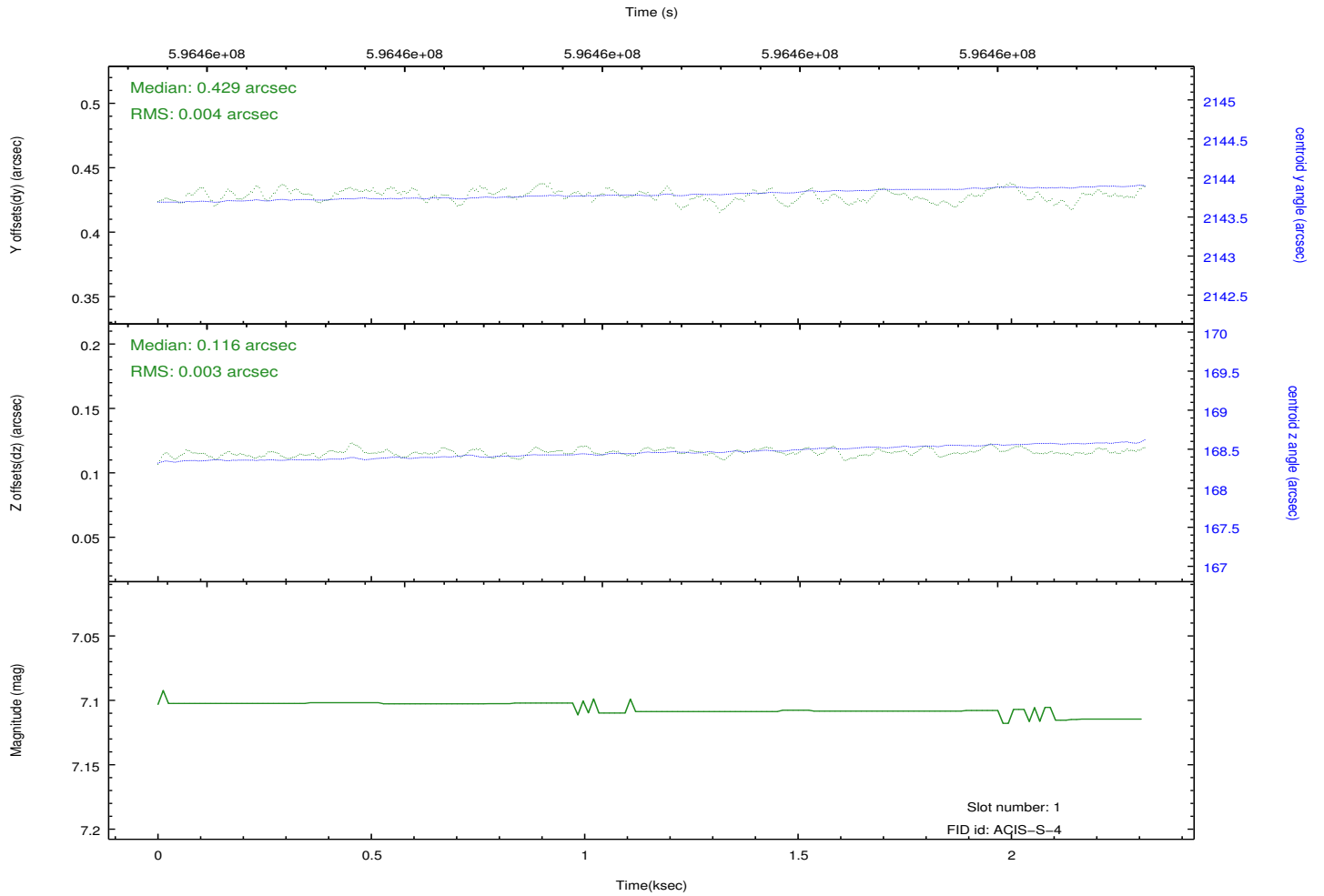
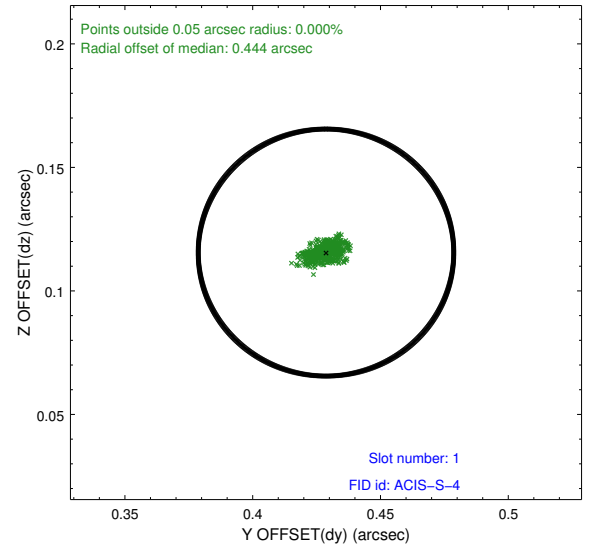
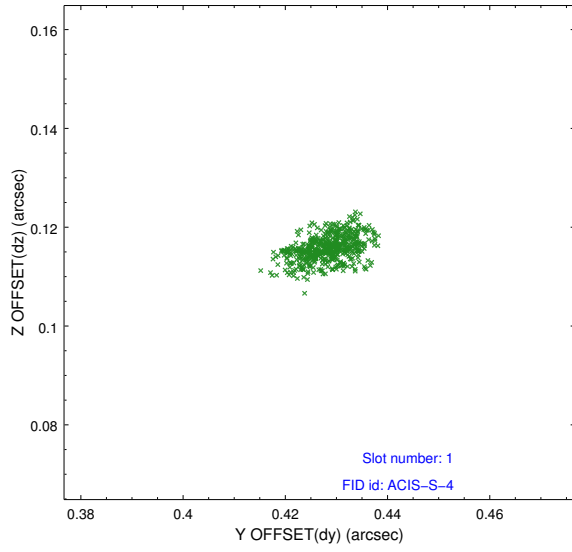


2.5 FID Slots

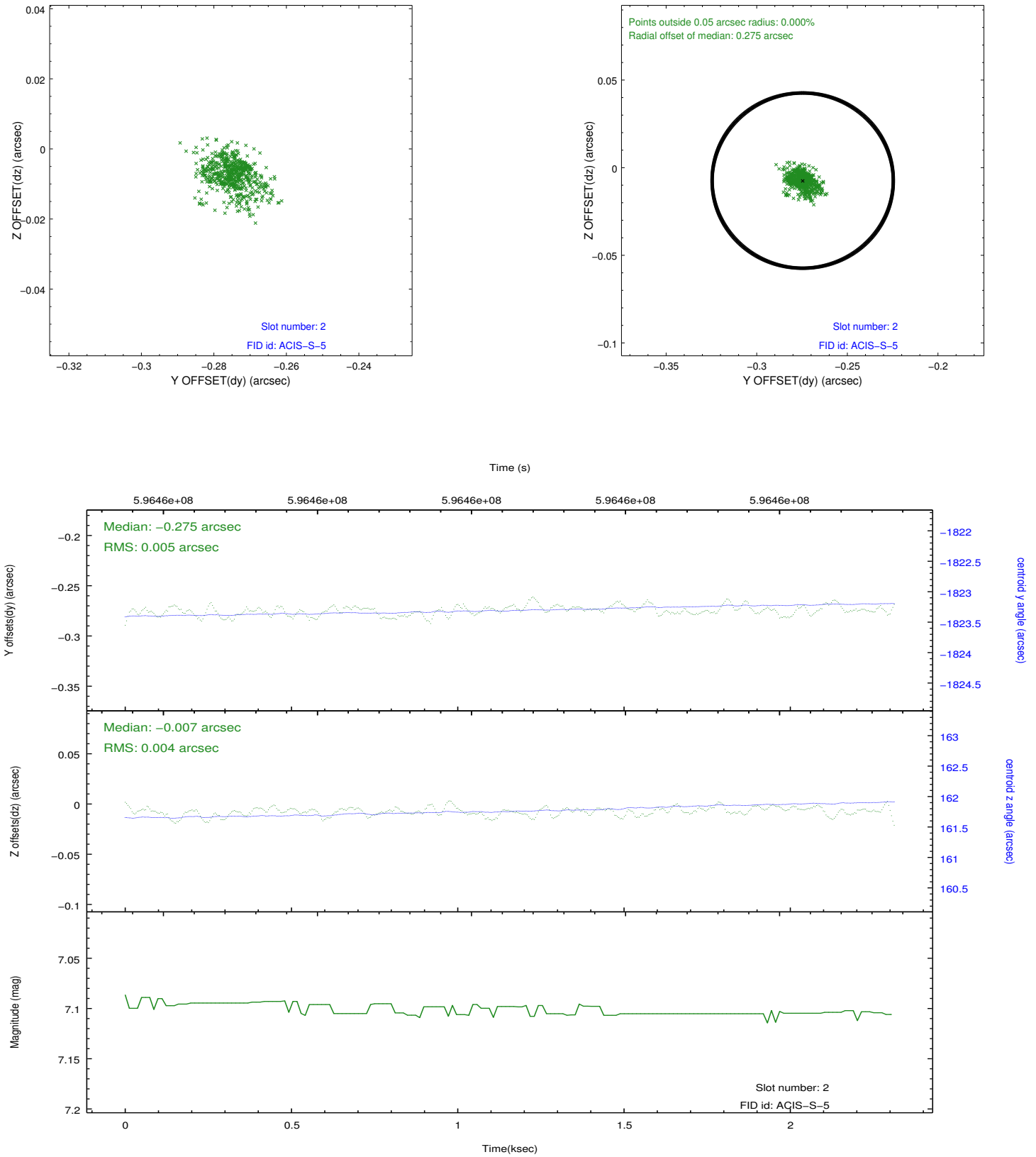
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2016.11.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.932800028801

A.2 Comments