

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 18941 - L2 Version 1
Chandra X-Ray Center

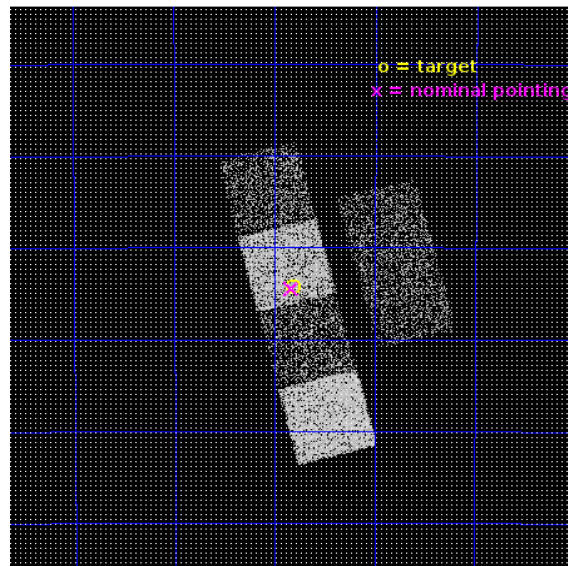
L2 Processing Date : Nov 25 2016

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

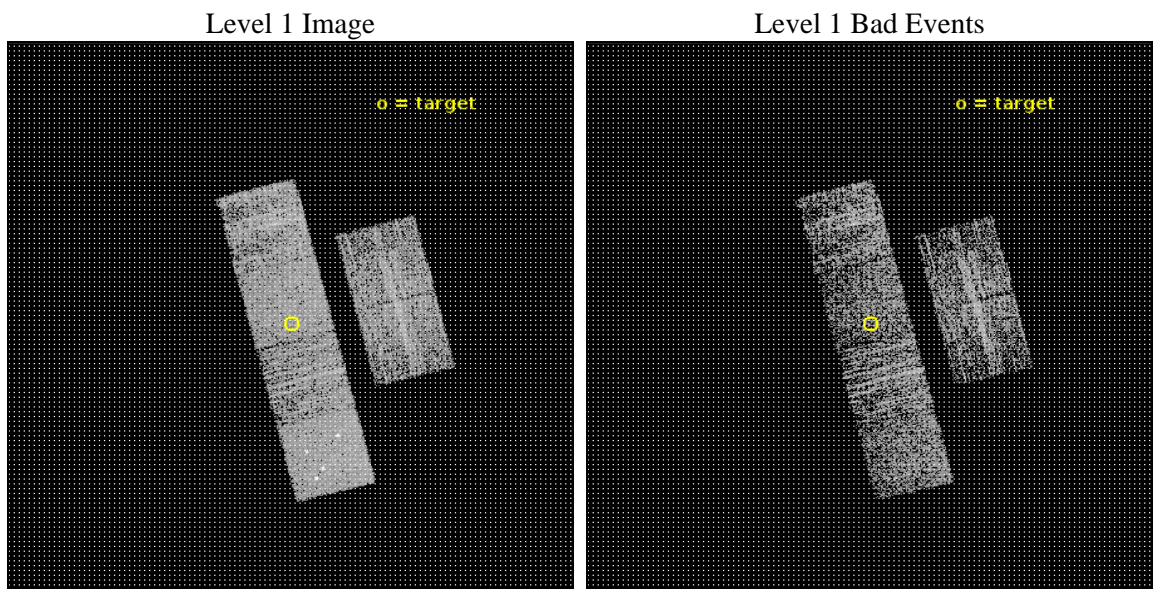
seq_num	201134	Sequence number
obs_id	18941	Observation id
title	Probing the Dynamo Mechanism in Fully Convective Stars	Proposal ti
observer	Nicholas Wright	Principal investigator
object	2MASS J19204795-4533283	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	290.204583	Observer's specified target RA [deg]
dec_targ	-45.571944	Observer's specified target Dec [deg]
ra_nom	290.20867219212	Nominal RA [deg]
dec_nom	-45.574798142267	Nominal Dec [deg]
roll_nom	255.56758280104	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1942.400028944	Sum of GTIs [s]
livetime	1917.8041902046	Livetime [s]
ontime2	1942.400028944	Sum of GTIs [s]
ontime3	1942.400028944	Sum of GTIs [s]
ontime5	1942.400028944	Sum of GTIs [s]
ontime6	1942.400028944	Sum of GTIs [s]
ontime7	1942.400028944	Sum of GTIs [s]
ontime8	1942.400028944	Sum of GTIs [s]
l2events	21421	Number of level 2 events



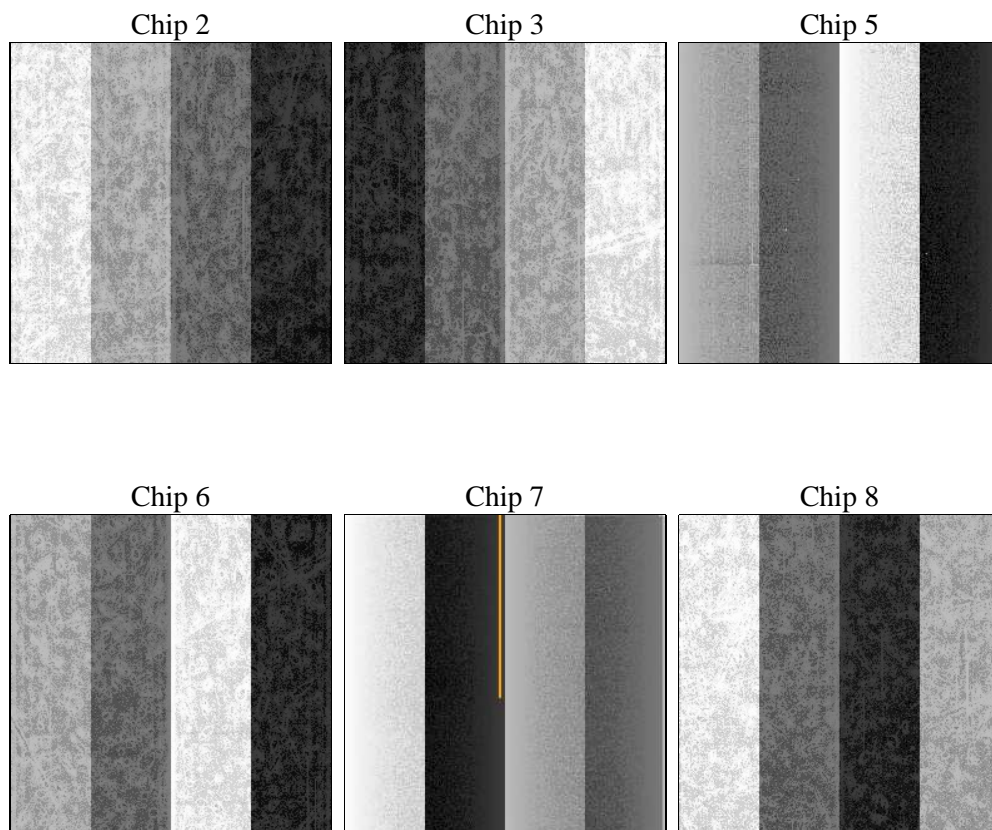
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	1942.400028944	Sum of GTIs [s]
caldsver	4.7.2	 	ontime2	1942.400028944	Sum of GTIs [s]
date	2016-11-25T11:33:54	Date and time of file creation	ontime3	1942.400028944	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	1942.400028944	Sum of GTIs [s]
			ontime6	1942.400028944	Sum of GTIs [s]
			ontime7	1942.400028944	Sum of GTIs [s]
			ontime8	1942.400028944	Sum of GTIs [s]
			l1events	96868	Number of level 1 events

2.1.4 Events

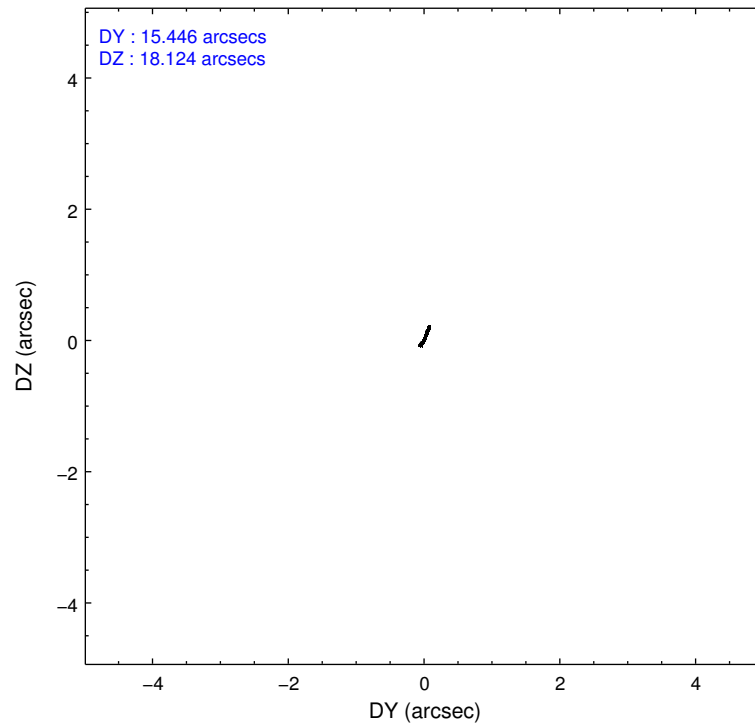
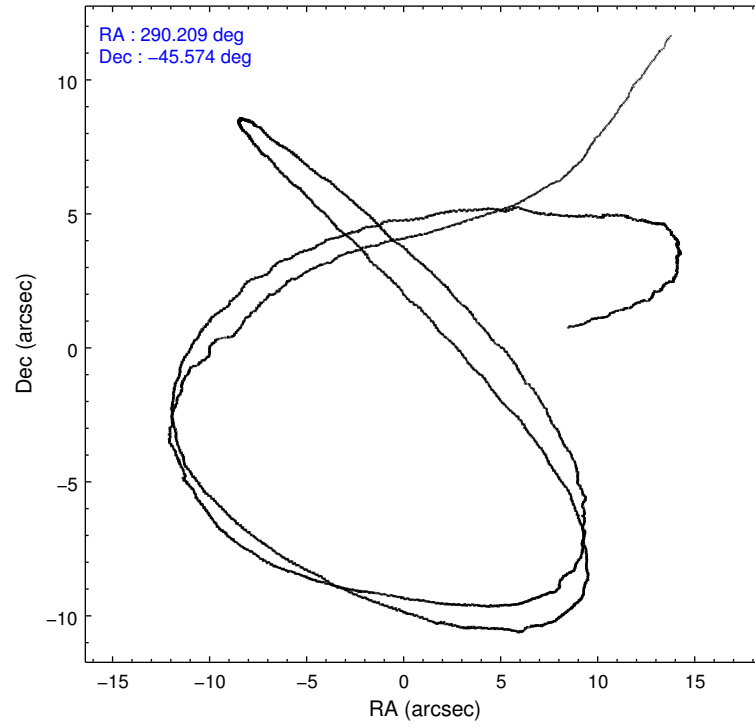
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	13371	12821	22383	14253	16885	17155
rejected events	11977	11489	10794	12724	9685	12598
rejected %	89%	89%	48%	89%	57%	73%

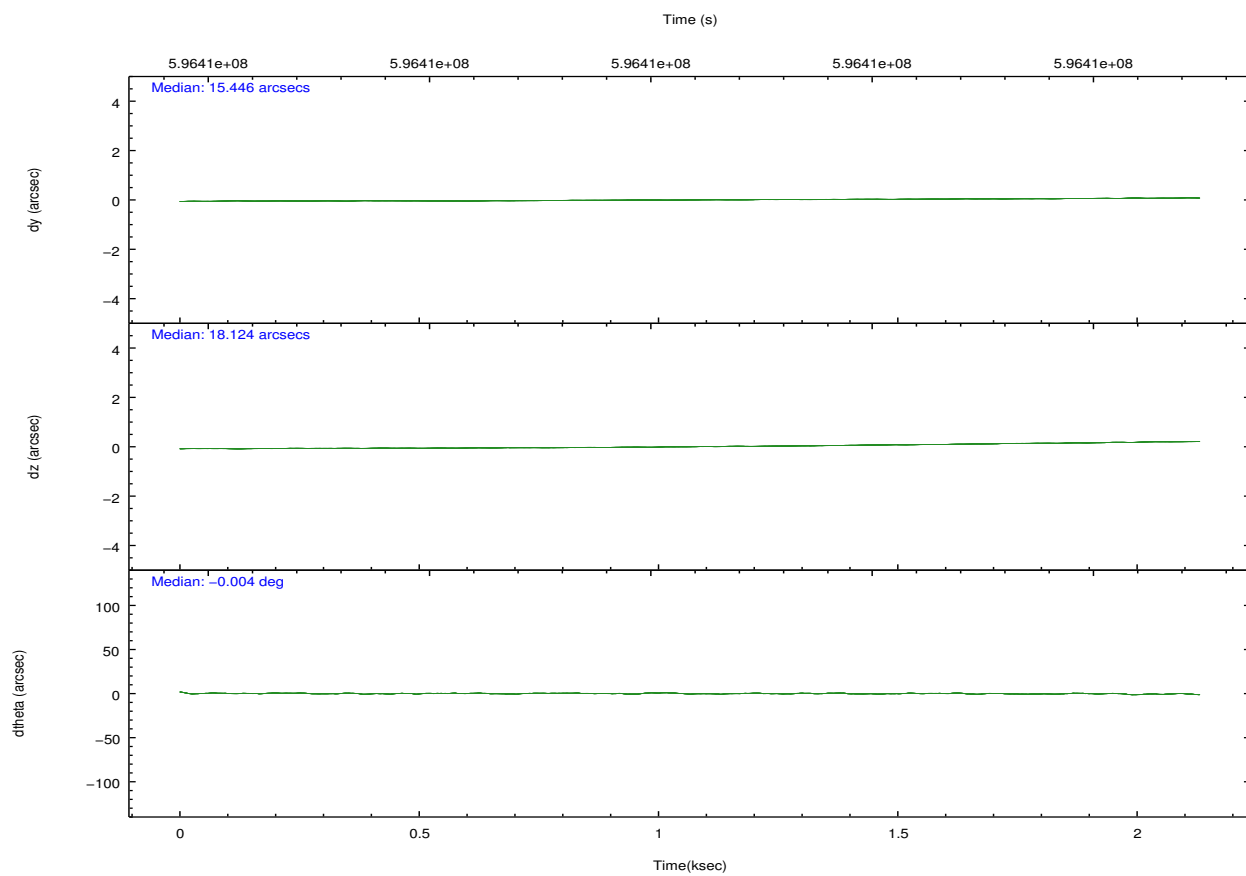
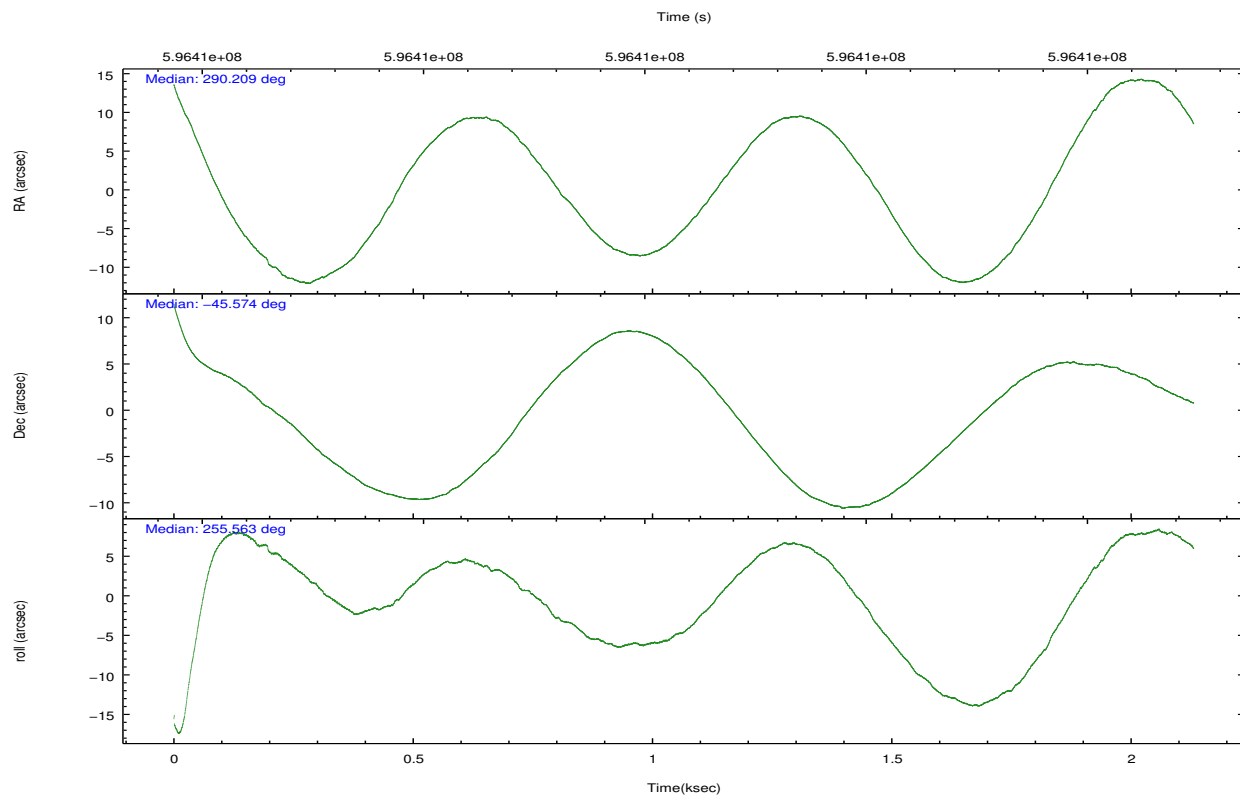
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	477	448	1998	513	616	1381
	3%	3%	8%	3%	3%	8%
grade 1 events	10	8	101	2	20	13
	0%	0%	0%	0%	0%	0%
grade 2 events	363	303	3576	362	1605	1057
	2%	2%	15%	2%	9%	6%
grade 3 events	147	122	278	170	553	545
	1%	0%	1%	1%	3%	3%
grade 4 events	156	148	285	137	542	481
	1%	1%	1%	0%	3%	2%
grade 5 events	484	624	1348	622	1679	891
	3%	4%	6%	4%	9%	5%
grade 6 events	253	313	5475	350	3901	1095
	1%	2%	24%	2%	23%	6%
grade 7 events	11481	10855	9322	12097	7969	11692
	85%	84%	41%	84%	47%	68%

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	290.197584	290.2086721921216	CCD I2 on	O1	Y
[deg] Pointing Dec	-45.548586	-45.57479814226684	CCD I3 on	O2	Y
[deg] Pointing Roll	255.403328	255.567582801043	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)	596408151.184000	596406941.40289	CCD S5 on	N	N
Observation start date	2016-11-24T20:54:43	2016-11-24T20:35:41	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	596410151.184000	596411328.4031399	On-chip summing requested	N	N
Observation end date	2016-11-24T21:28:03	2016-11-24T21:48:48	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



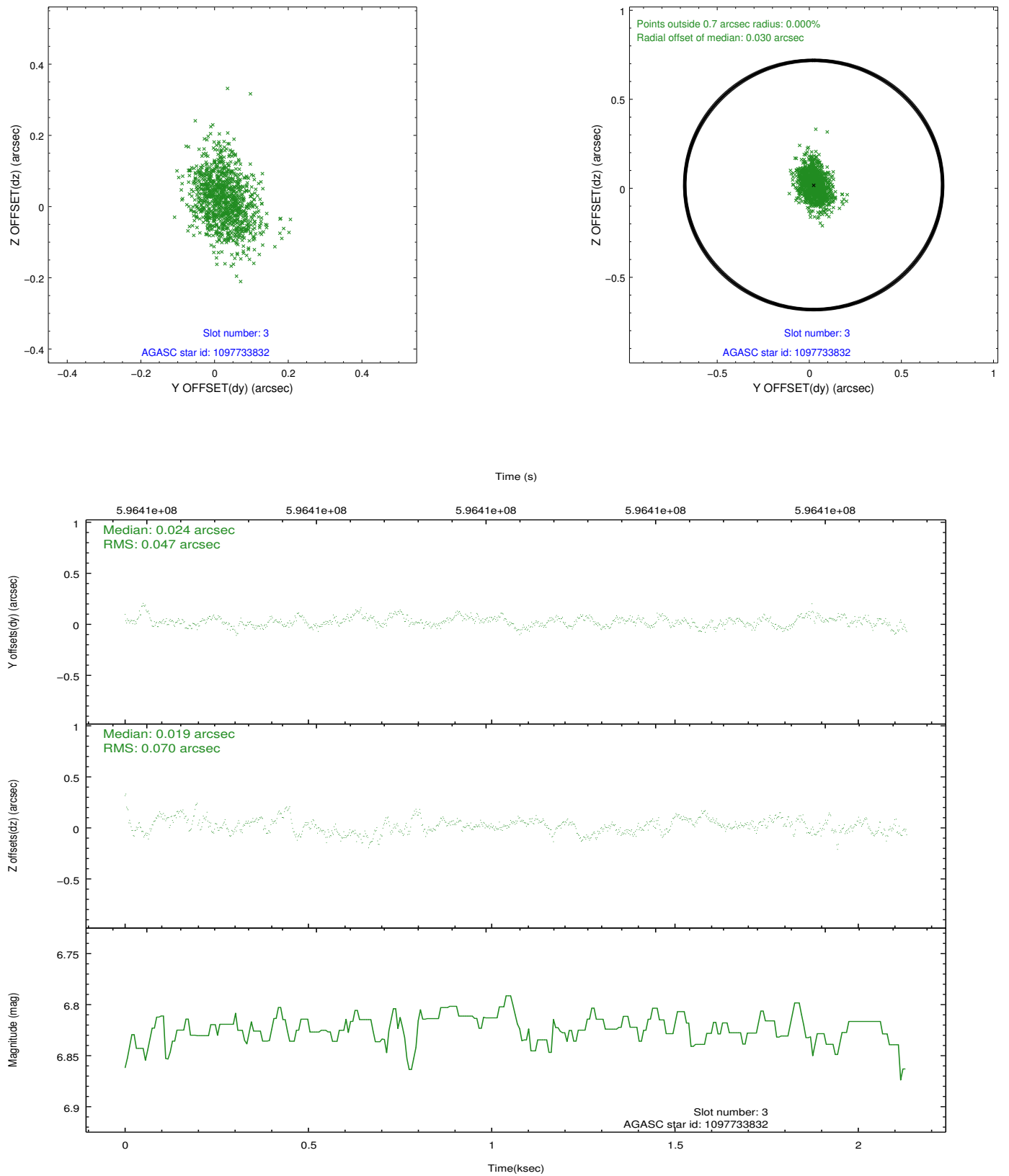


Slot Statistics

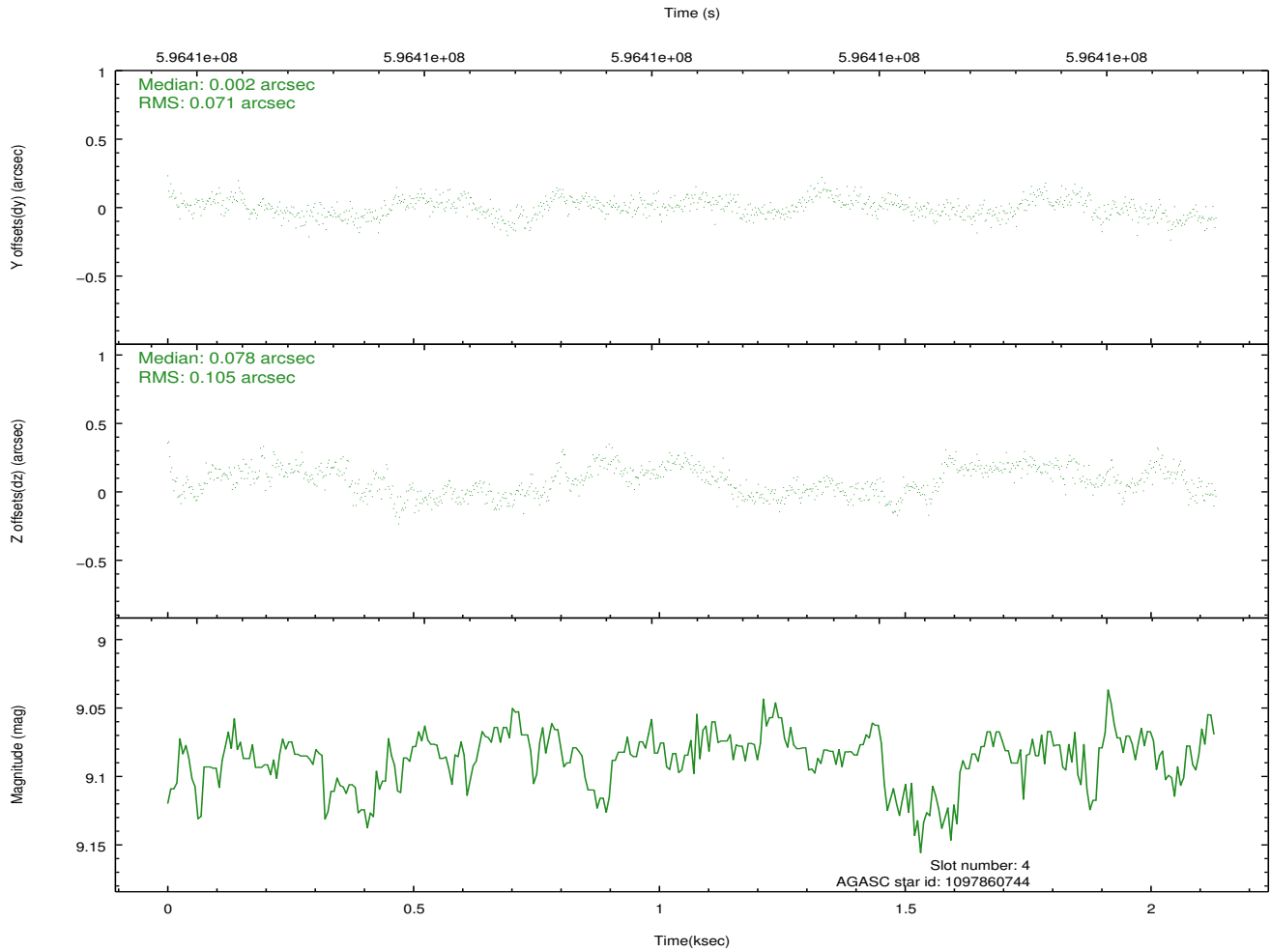
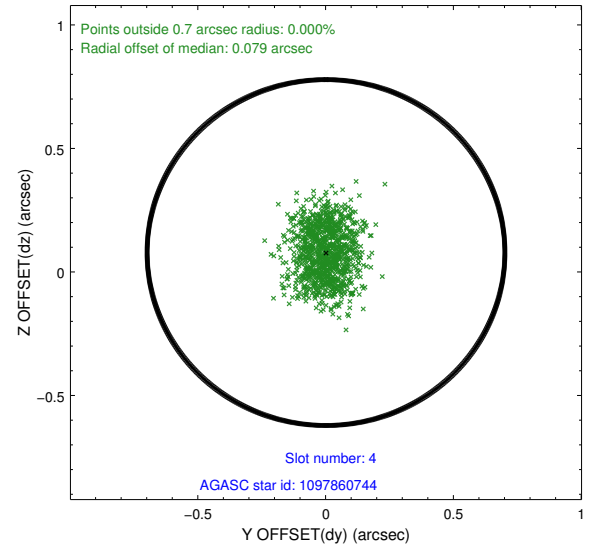
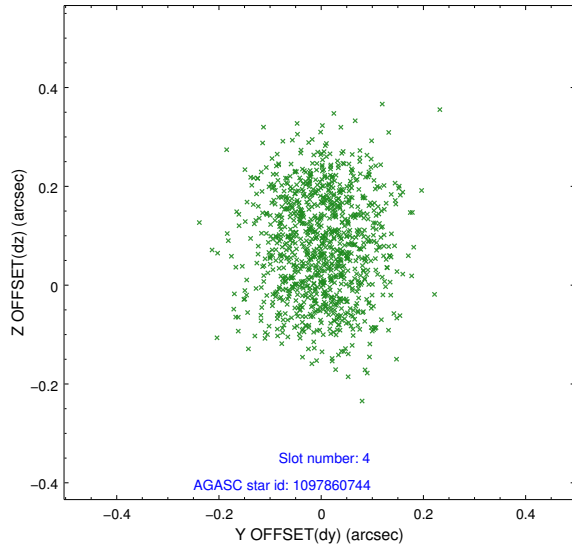
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.08	520	-0.190	-0.127	0.007	0.011	0.000000	0.000000	-768.63	-1739.73
1	FID		ACIS-S-4	7.18	520	0.463	0.126	0.005	0.011	0.000000	0.000000	2143.90	165.79
2	FID		ACIS-S-5	7.18	520	-0.303	0.010	0.007	0.011	0.000000	0.000000	-1817.65	162.87
3	GUIDE	used	1097733832	6.82	1041	0.024	0.019	0.089	0.151	289.504143	-45.624421	712.58	-1618.85
4	GUIDE	used	1097860744	9.08	1041	0.002	0.078	0.135	0.209	290.670368	-45.104175	-1845.83	758.75
5	GUIDE	used	1097861728	8.84	1040	0.045	0.075	0.105	0.193	290.679204	-45.472876	-567.44	1109.73
6	GUIDE	used	1097869776	8.87	1039	-0.124	-0.257	0.222	0.317	290.868171	-45.974229	1068.58	2013.69
7	GUIDE	used	1097876008	7.11	1040	0.062	0.083	0.098	0.167	289.785783	-46.025815	1927.03	-559.96

2.4 Star Slots

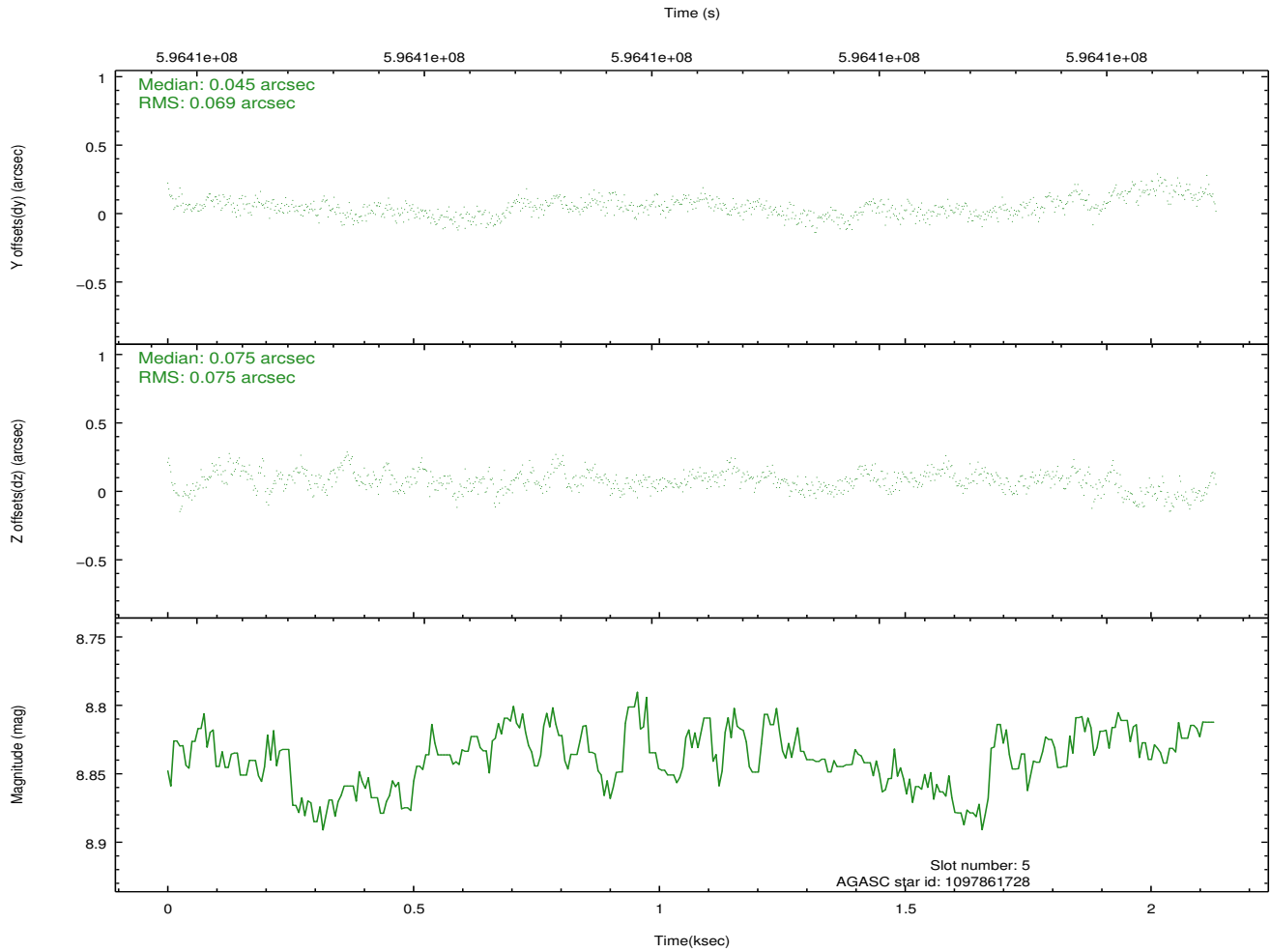
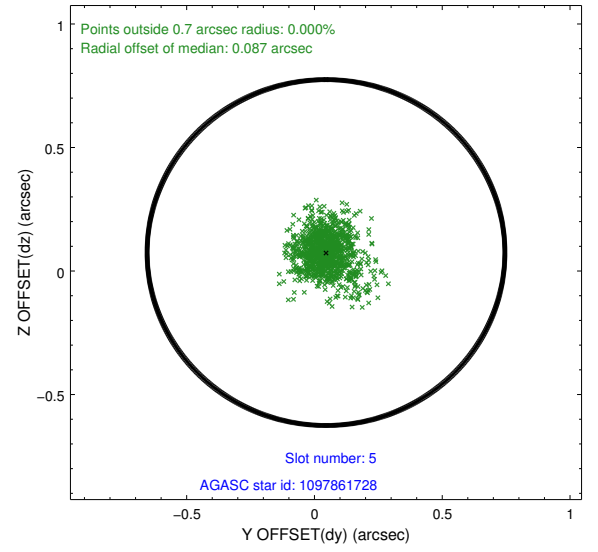
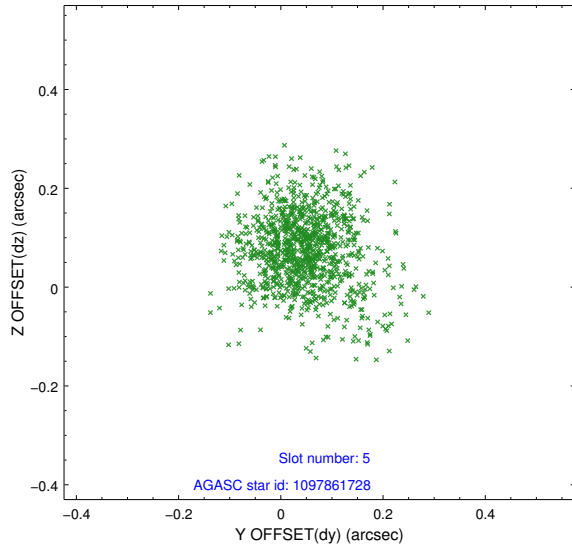
2.4.1 Slot 3



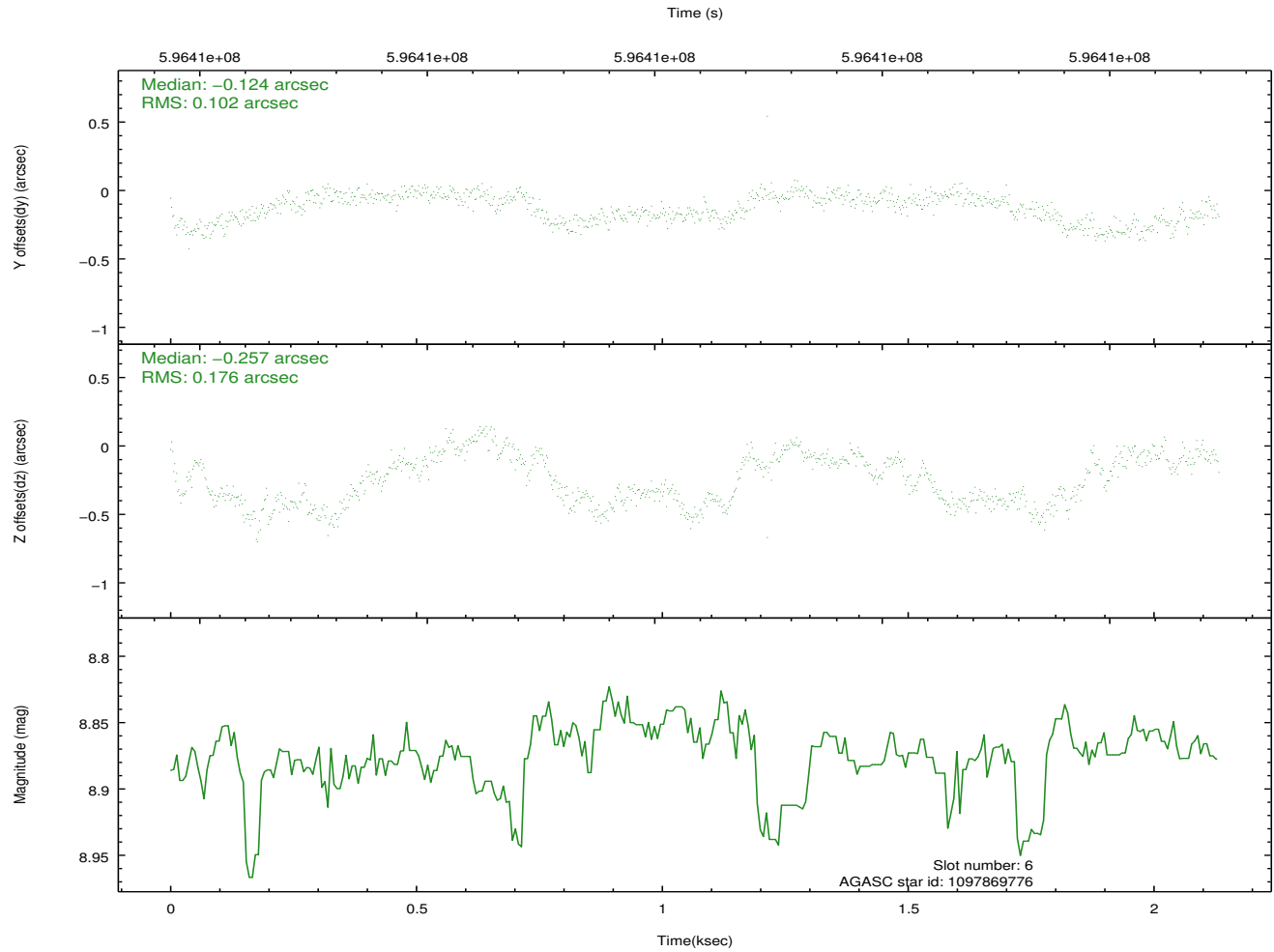
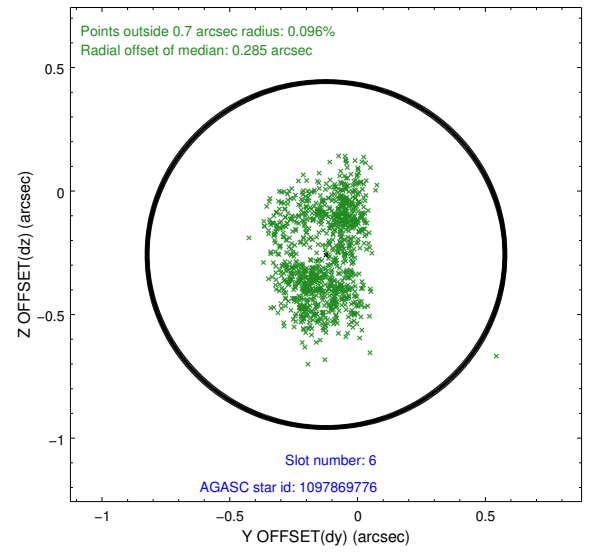
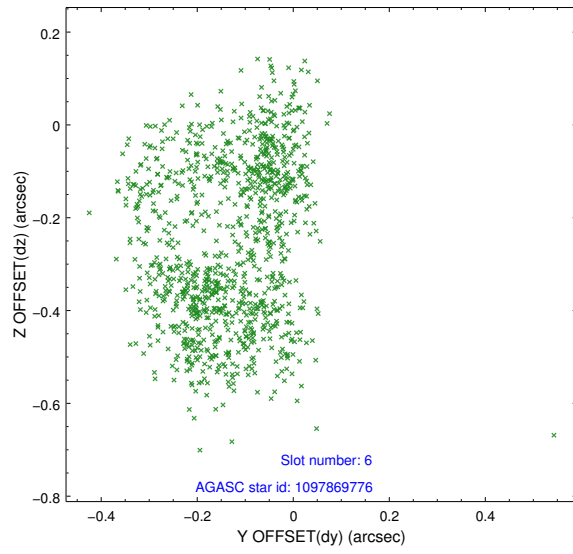
2.4.2 Slot 4



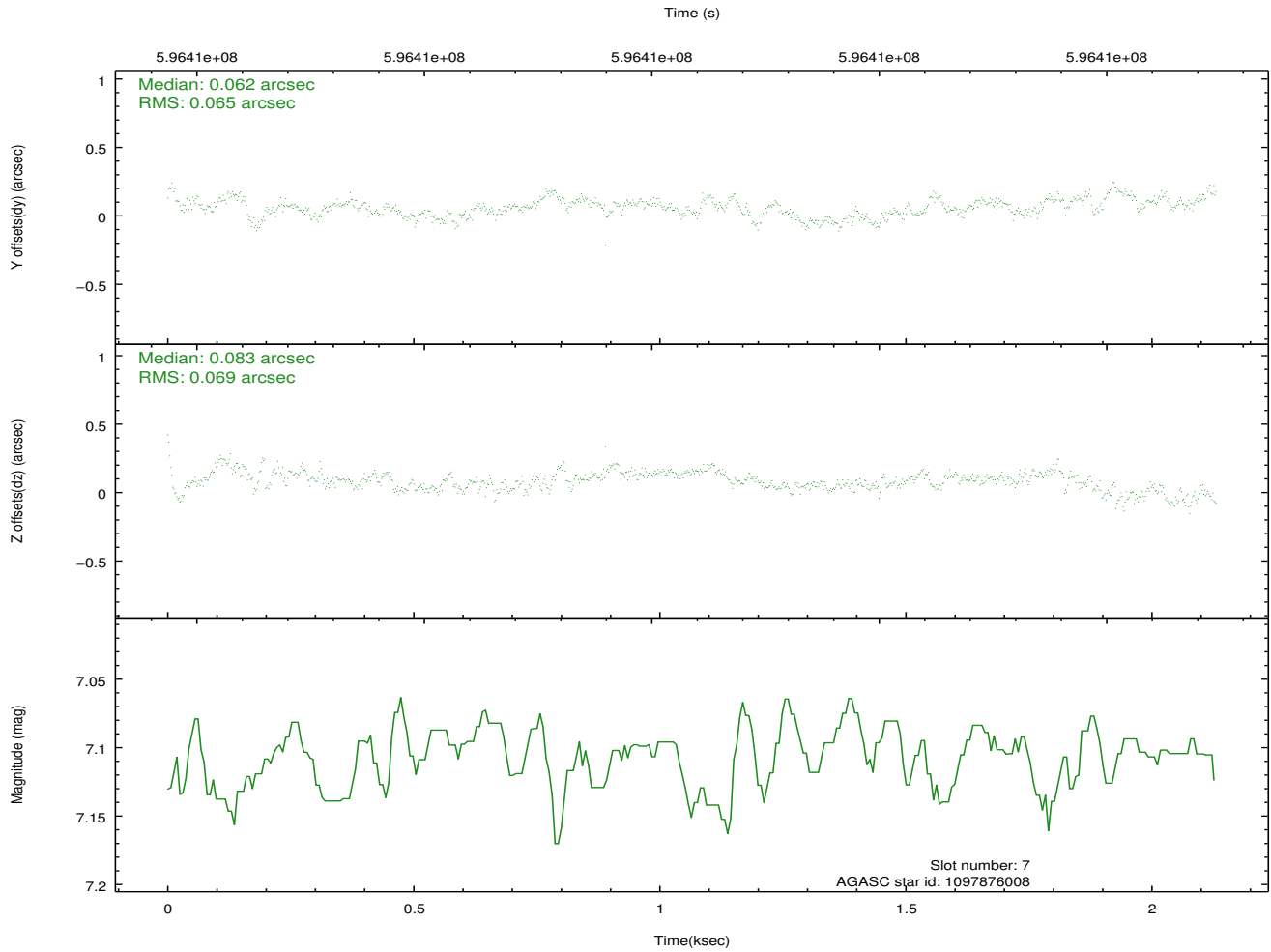
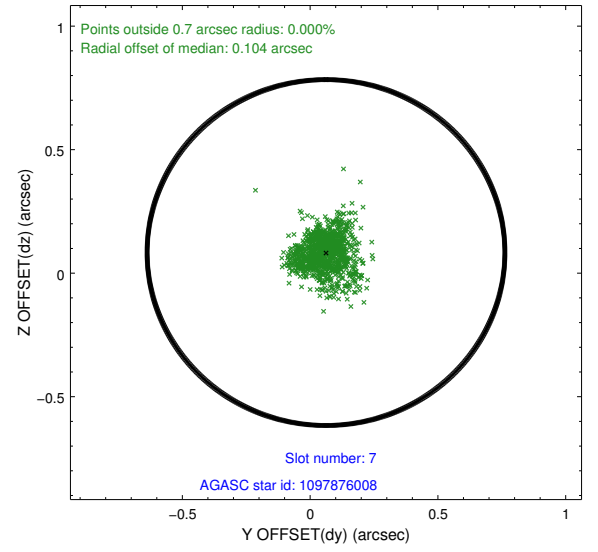
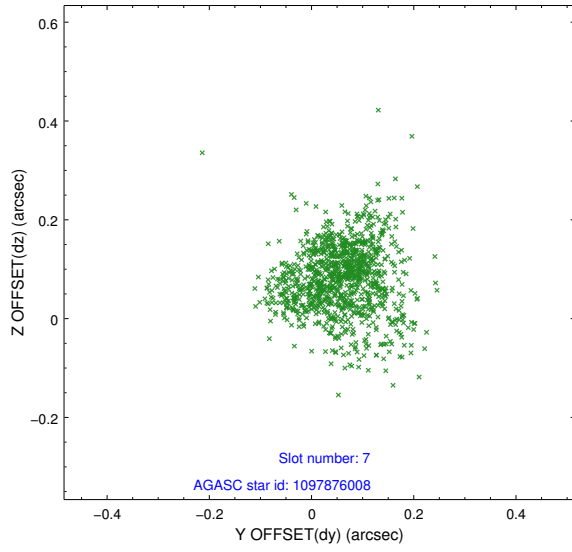
2.4.3 Slot 5



2.4.4 Slot 6

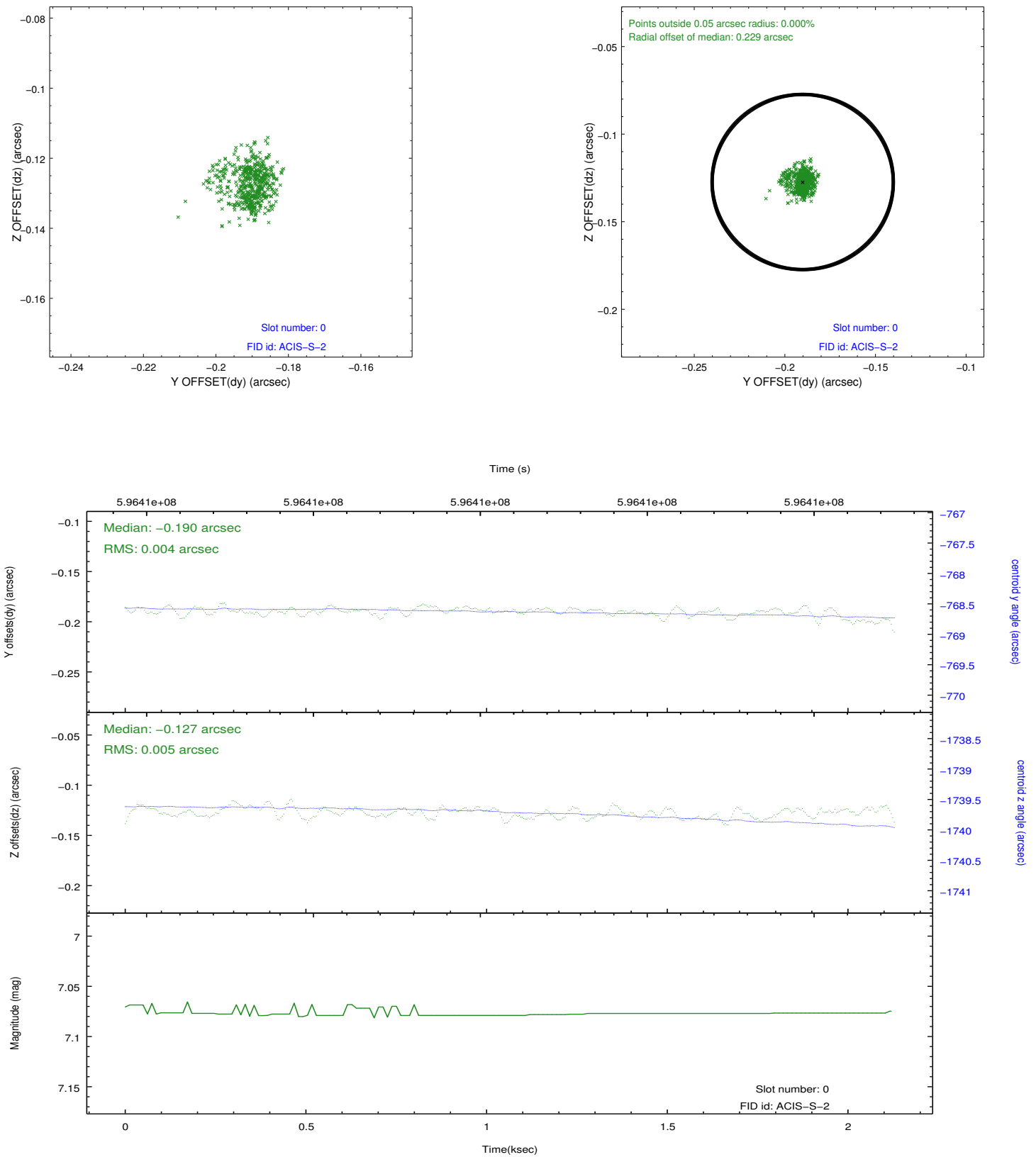


2.4.5 Slot 7

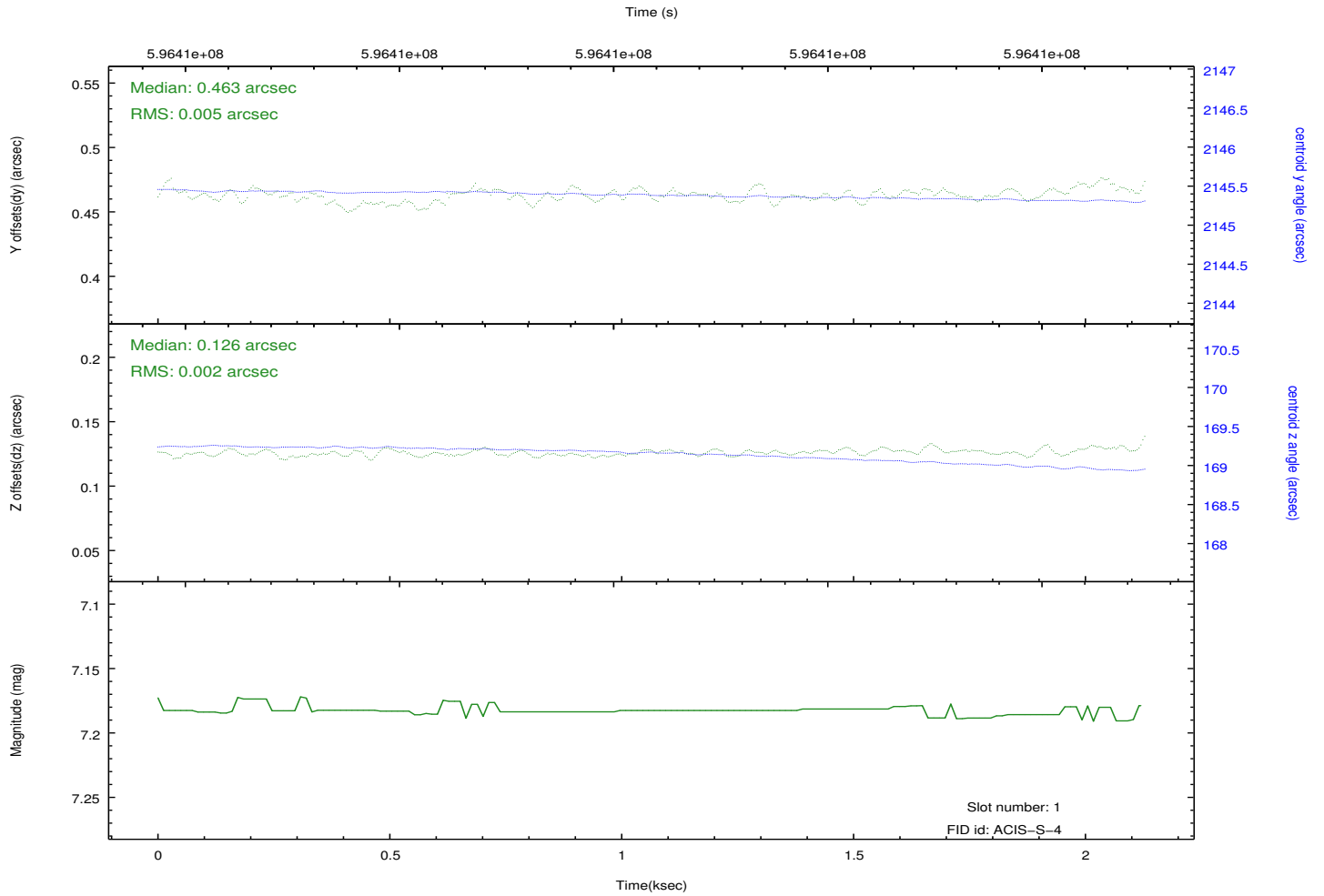
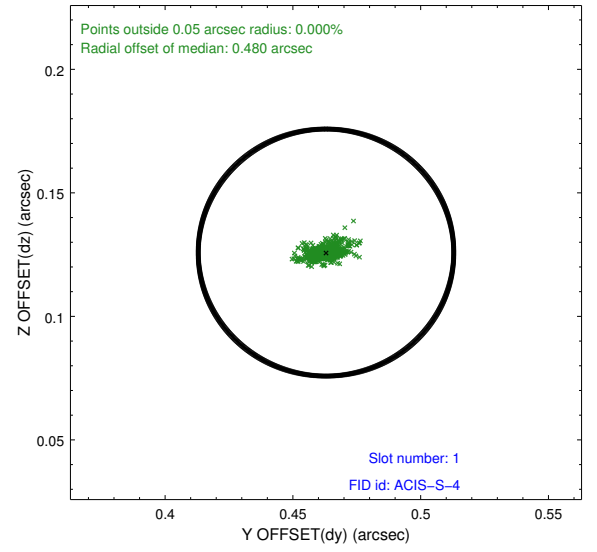
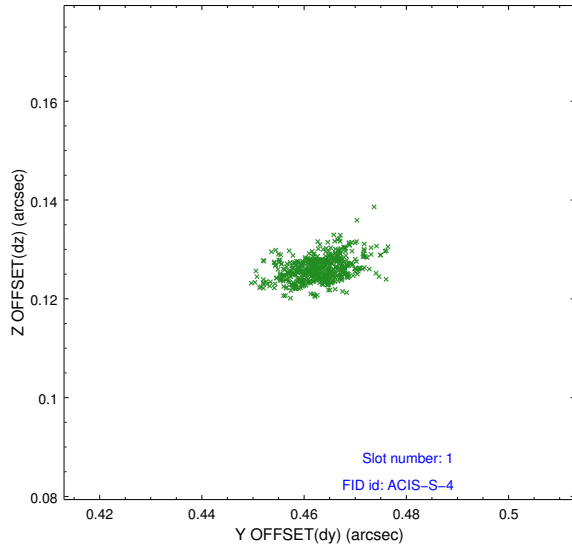


2.5 FID Slots

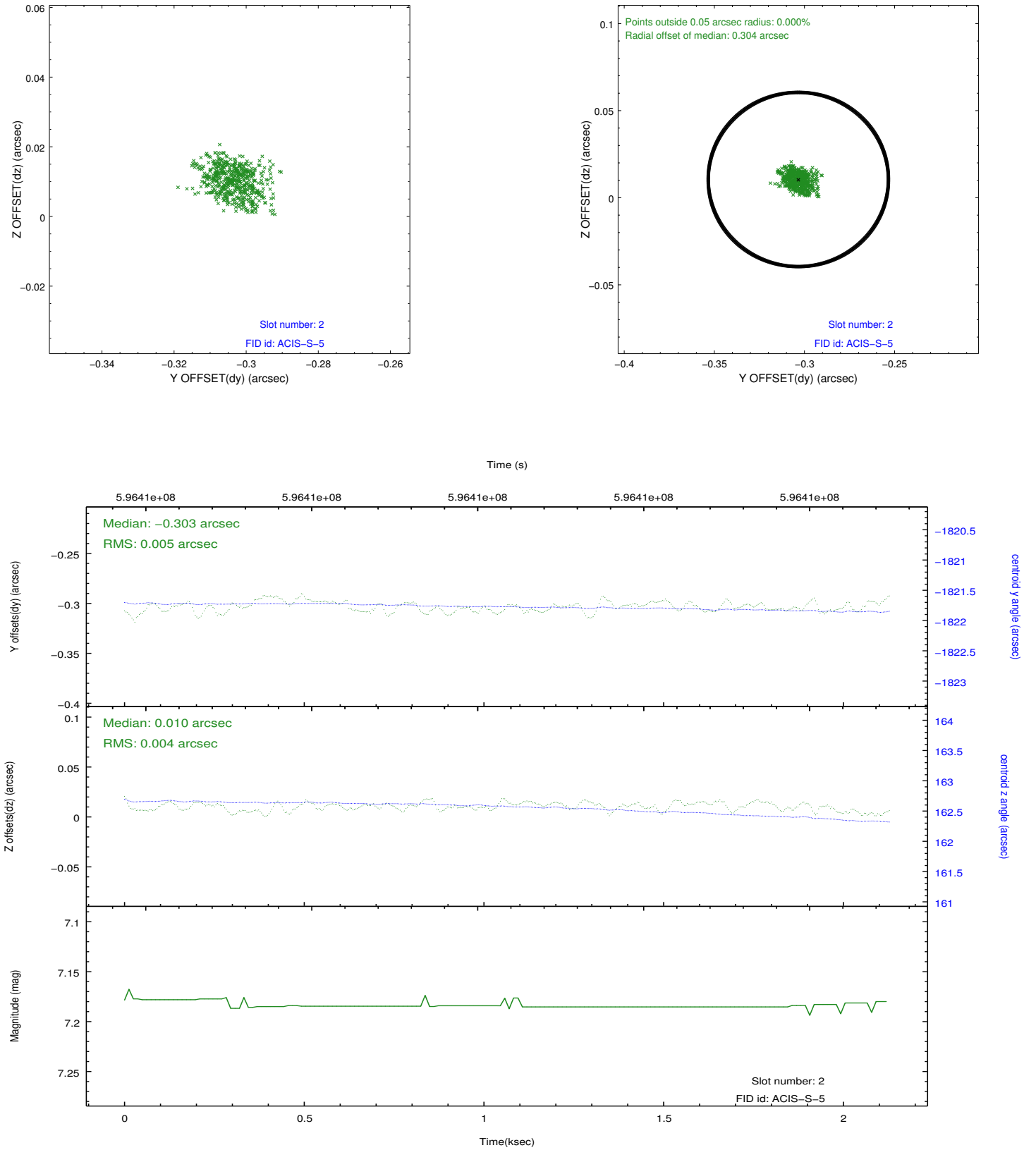
2.5.1 Slot 0



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)	2016.11.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.942400028944

A.2 Comments