

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 10699 - L2 Version 2
Chandra X-Ray Center

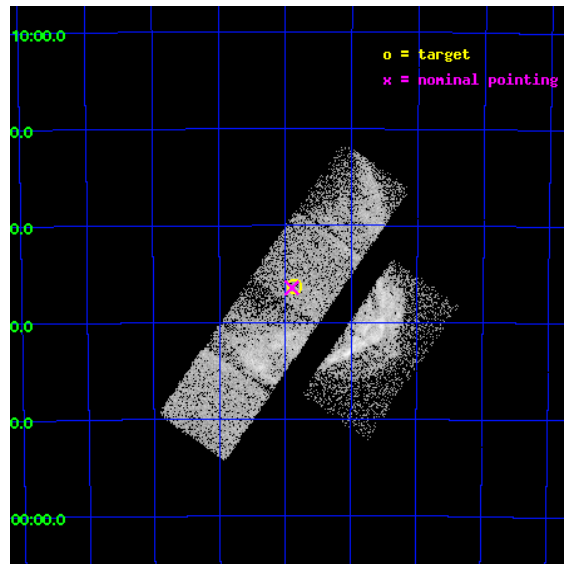
L2 Processing Date : Jun 8 2012

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

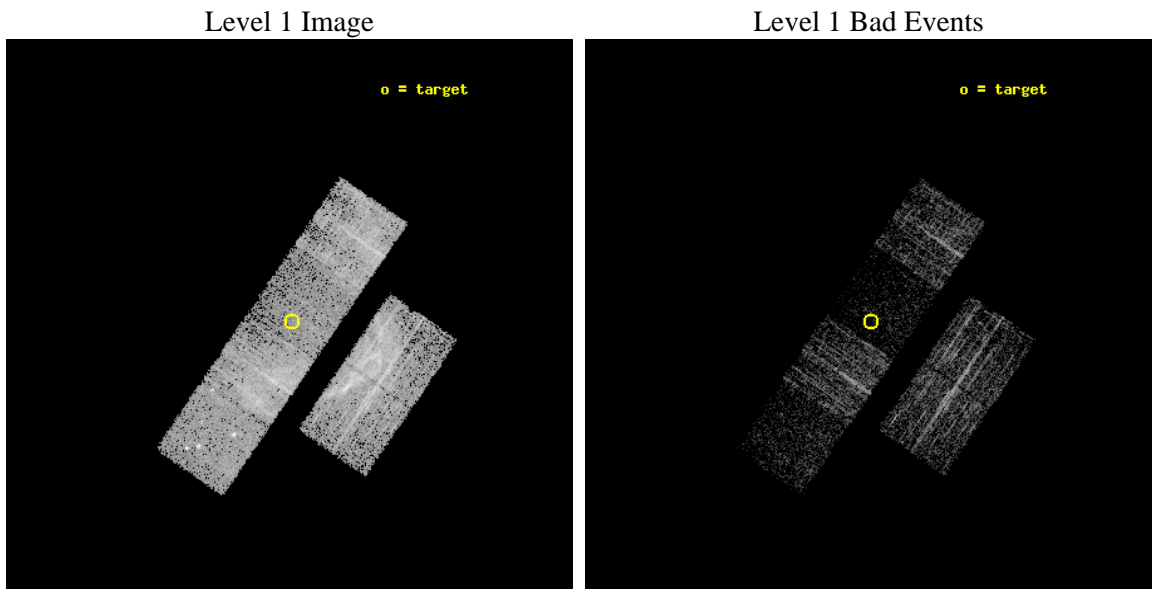
seq_num	501155	Sequence number
obs_id	10699	Observation id
title	Obtaining spatial and spectral information of a point source in RCW 86	Proposal title
observer	Dr Jelle Kaastra	Principal investigator
object	RCW 86 point source	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	220.465	Observer's specified target RA [deg]
dec_targ	-62.605417	Observer's specified target Dec [deg]
ra_nom	220.47468219112	Nominal RA [deg]
dec_nom	-62.607428504904	Nominal Dec [deg]
roll_nom	304.43042316327	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2040.3532264233	Sum of GTIs [s]
livetime	2014.5170453171	Livetime [s]
ontime2	2040.3942664266	Sum of GTIs [s]
ontime3	2040.2301064134	Sum of GTIs [s]
ontime5	2040.31218642	Sum of GTIs [s]
ontime6	2040.2711464167	Sum of GTIs [s]
ontime7	2040.3532264233	Sum of GTIs [s]
ontime8	2040.1890664101	Sum of GTIs [s]
l2events	48435	Number of level 2 events



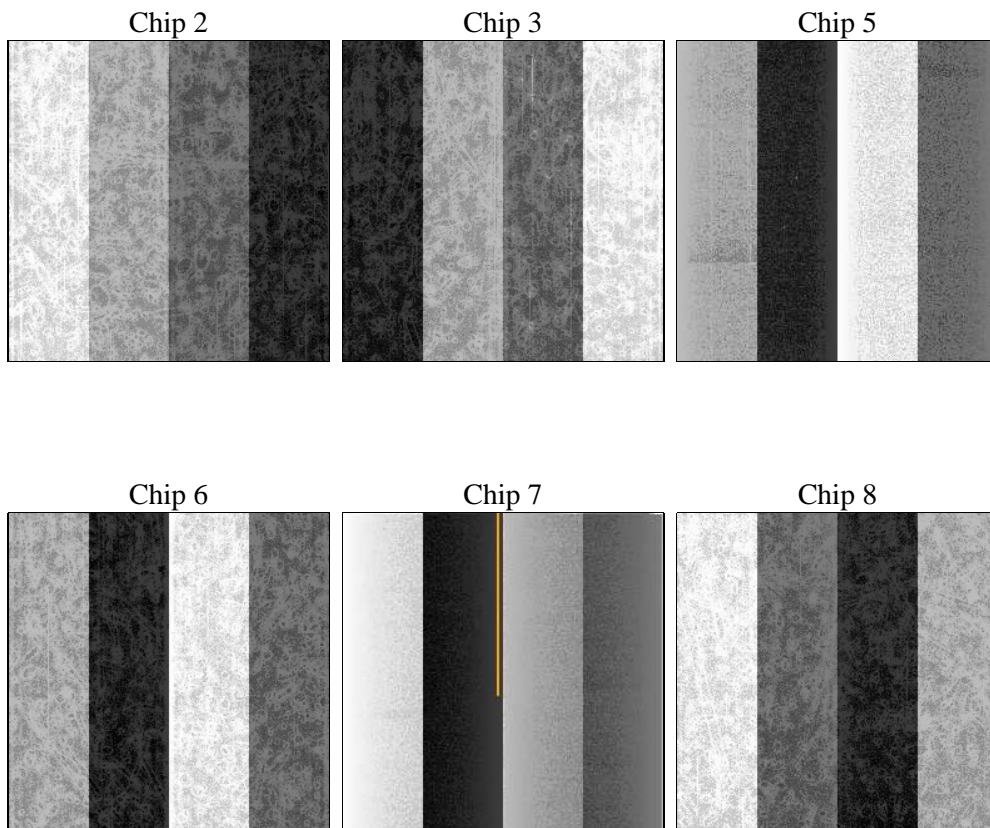
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	2040.3532264233	Sum of GTIs [s]
caldsver	4.4.10	 	ontime2	2040.3942664266	Sum of GTIs [s]
date	2012-06-08T20:04:29	Date and time of file creation	ontime3	2040.2301064134	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	2040.31218642	Sum of GTIs [s]
			ontime6	2040.2711464167	Sum of GTIs [s]
			ontime7	2040.3532264233	Sum of GTIs [s]
			ontime8	2040.1890664101	Sum of GTIs [s]
			l1events	119792	Number of level 1 events

2.1.4 Events

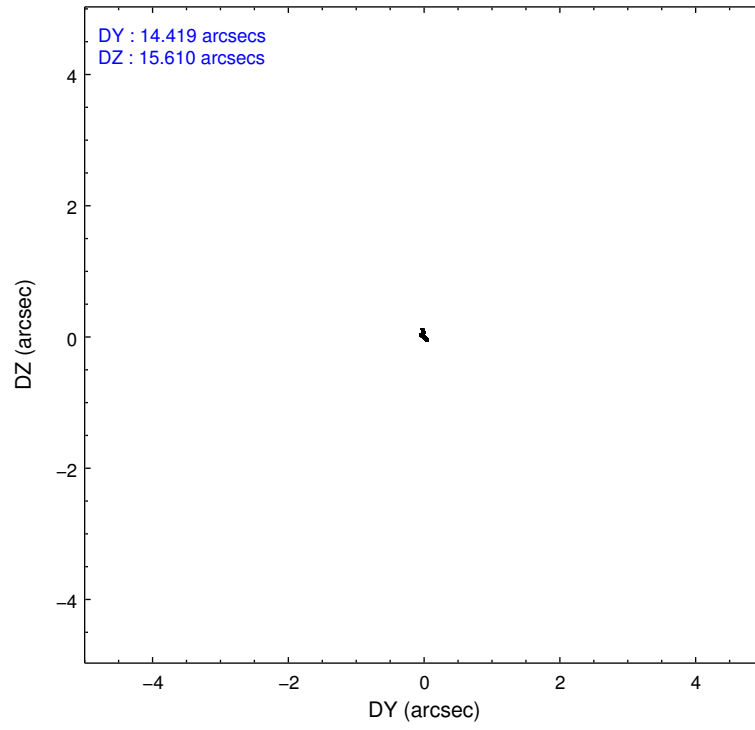
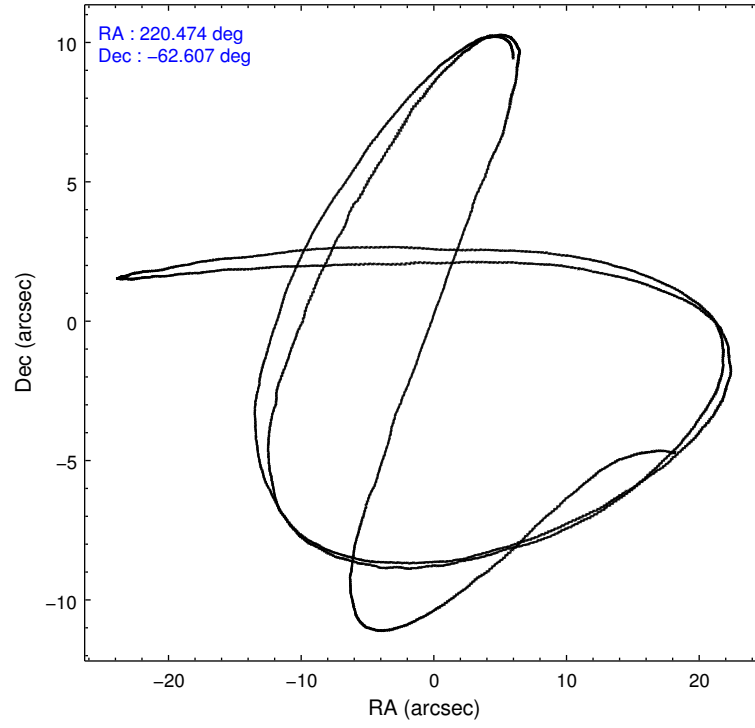
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	20317	23834	16240	24699	11691	23011
rejected events	14013	13727	5585	13587	3759	12664
rejected %	68%	57%	34%	55%	32%	55%

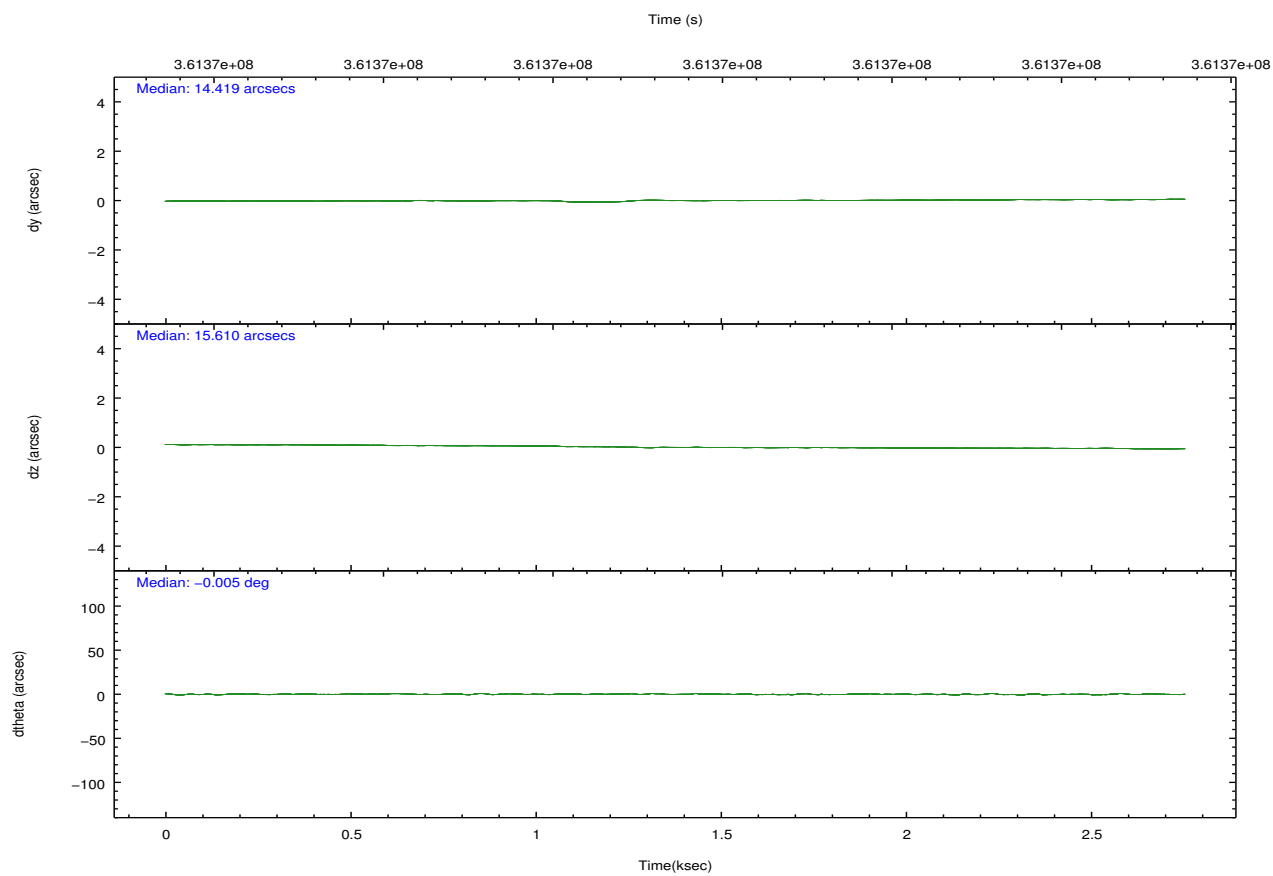
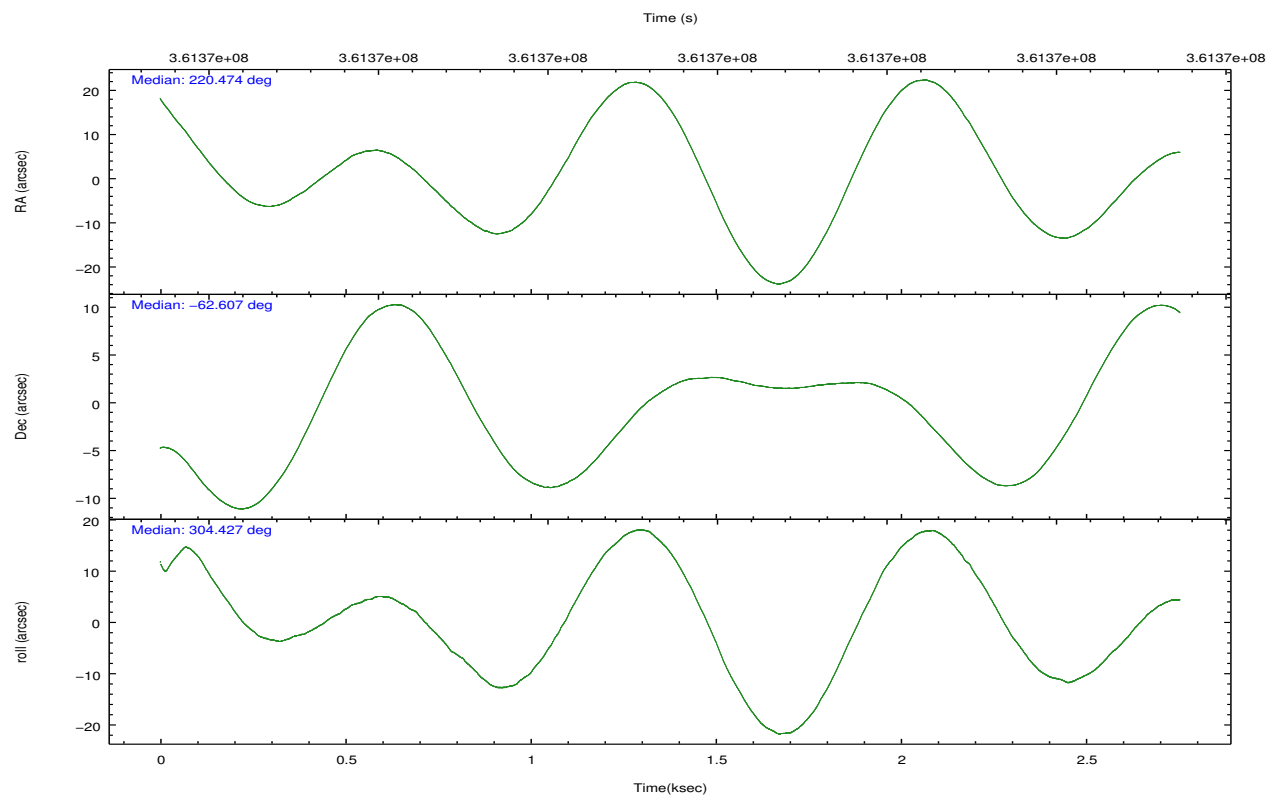
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	4921	8410	2454	8863	1579	6403
	24%	35%	15%	35%	13%	27%
grade 1 events	41	55	63	53	16	38
	0%	0%	0%	0%	0%	0%
grade 2 events	664	877	3297	1101	2060	1485
	3%	3%	20%	4%	17%	6%
grade 3 events	228	290	530	383	859	579
	1%	1%	3%	1%	7%	2%
grade 4 events	252	293	519	393	810	552
	1%	1%	3%	1%	6%	2%
grade 5 events	256	331	1161	351	910	549
	1%	1%	7%	1%	7%	2%
grade 6 events	248	245	3875	396	2638	1366
	1%	1%	23%	1%	22%	5%
grade 7 events	13707	13333	4341	13159	2819	12039
	67%	55%	26%	53%	24%	52%

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	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	220.420706	220.4746821911206	CCD I2 on	O2	Y
[deg] Pointing Dec	-62.595904	-62.60742850490377	CCD I3 on	Y	Y
[deg] Pointing Roll	304.225917	304.4304231632666	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	O1	Y
[s] Observation start time (MET)	361366736.184000	361365446.00379	CCD S5 on	N	N
Observation start date	2009-06-14T11:37:50	2009-06-14T11:17:26	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	361368736.184000	361369167.26648	On-chip summing requested	N	N
Observation end date	2009-06-14T12:11:10	2009-06-14T12:19:27	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



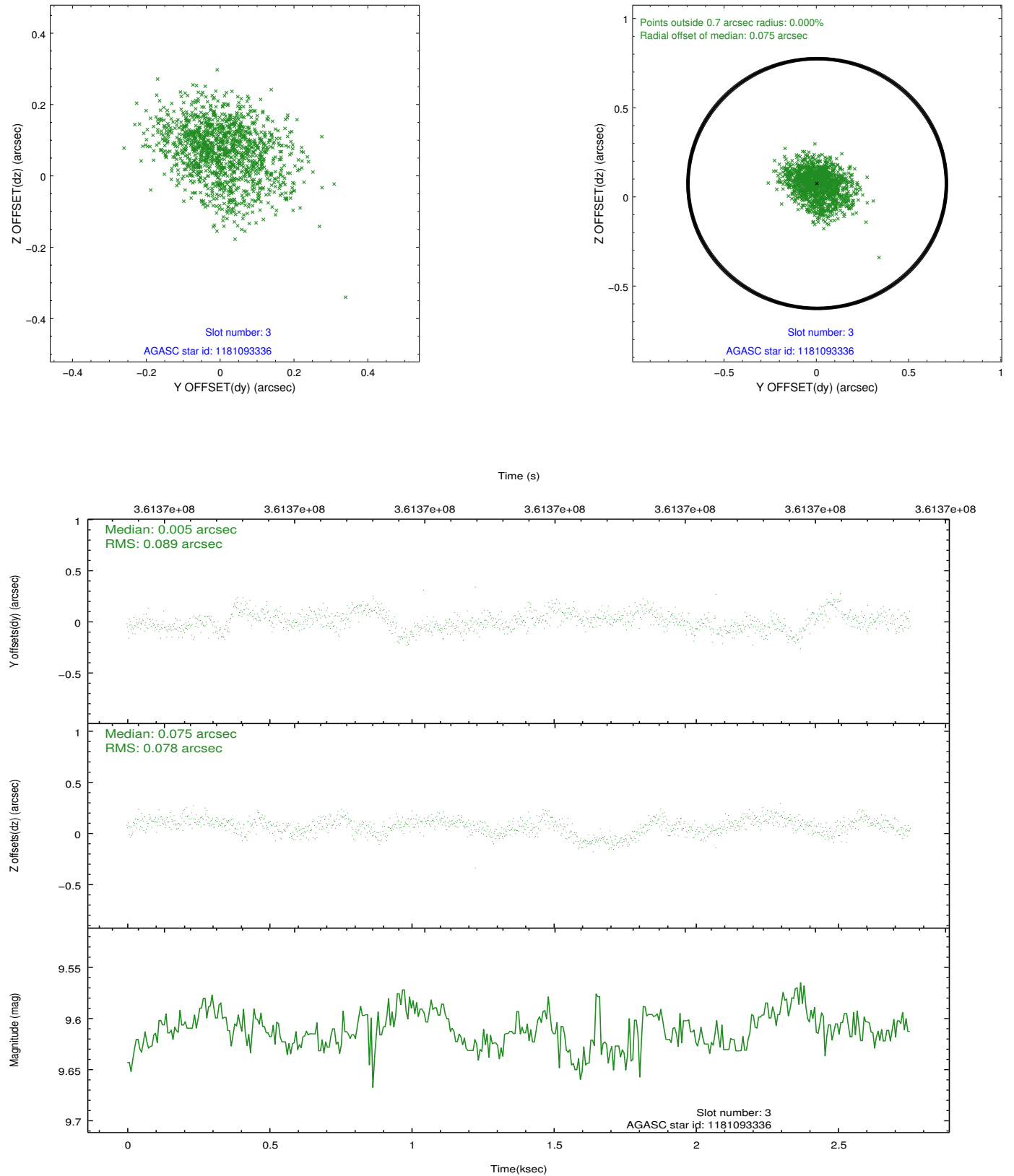


Slot Statistics

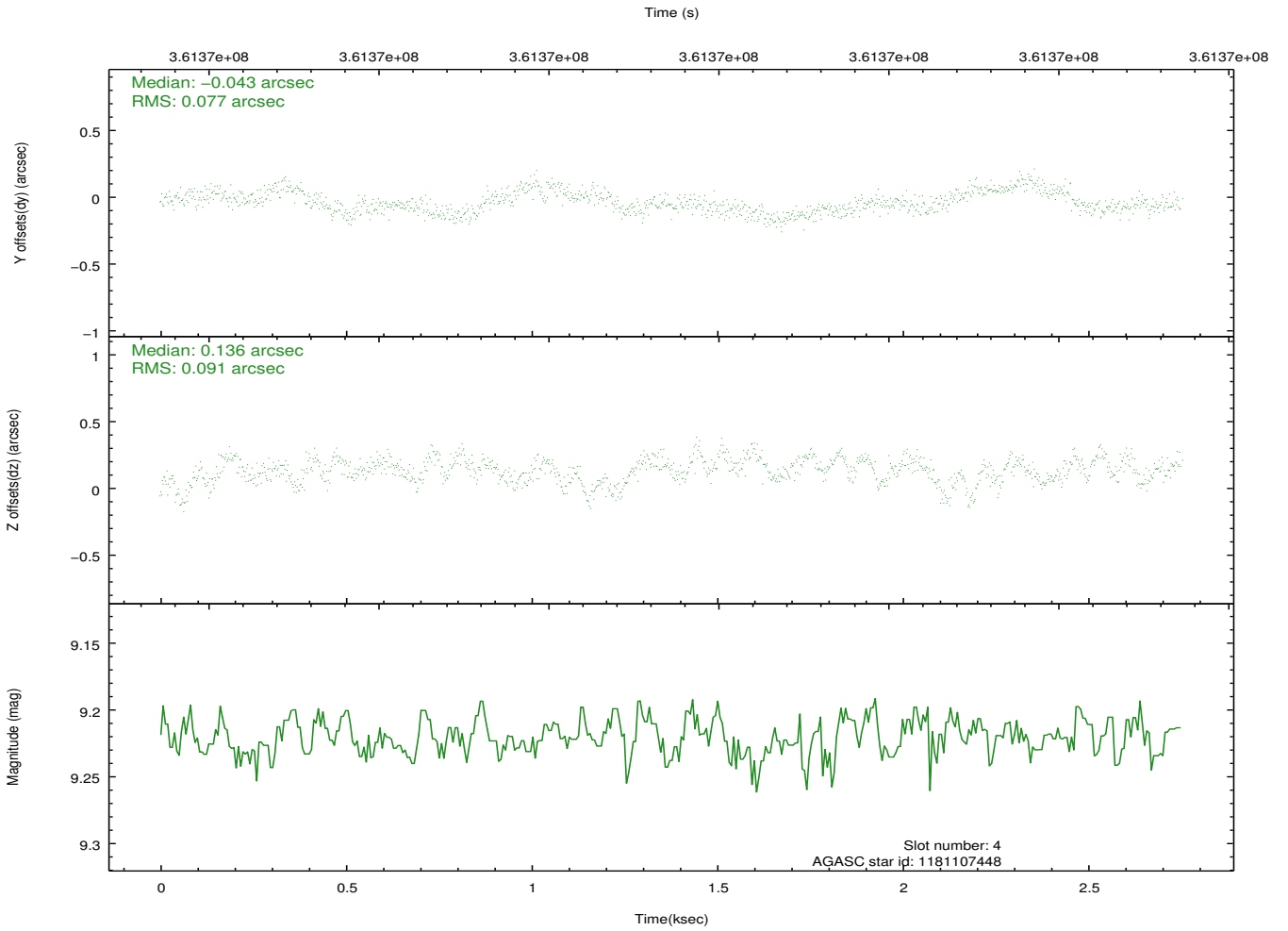
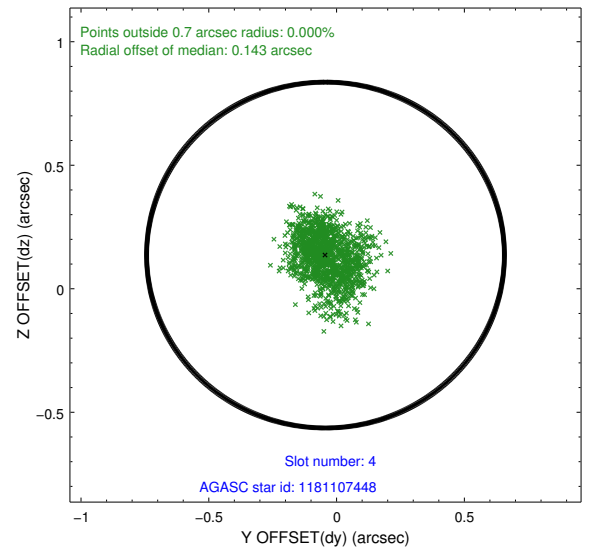
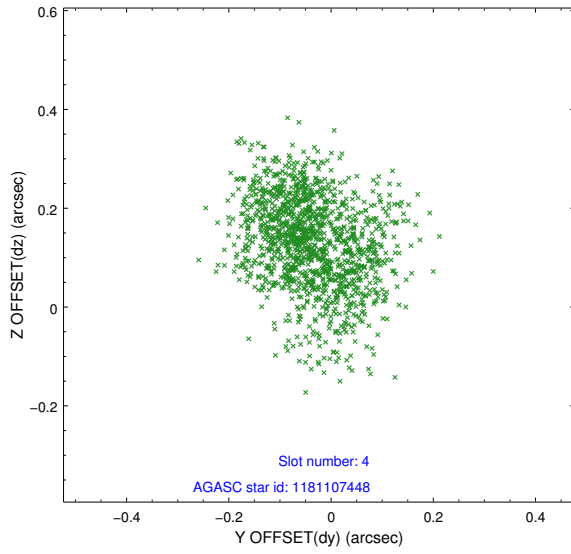
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.91	672	-0.073	-0.009	0.009	0.014	0.000000	0.000000	-767.43	-1736.99
1	FID	ACIS-S-4	6.99	672	0.176	0.037	0.010	0.019	0.000000	0.000000	2145.01	169.14
2	FID	ACIS-S-5	7.02	672	-0.133	-0.019	0.011	0.020	0.000000	0.000000	-1817.36	165.37
3	GUIDE	1181093336	9.61	1341	0.005	0.075	0.124	0.204	220.776875	-63.106347	1847.28	-554.68
4	GUIDE	1181107448	9.22	1343	-0.043	0.136	0.126	0.207	219.084809	-62.741785	-783.98	-2129.52
5	GUIDE	1181109144	8.34	1343	-0.122	-0.140	0.085	0.130	221.655127	-62.786083	1724.72	1282.69
6	GUIDE	1181119192	9.47	1343	0.207	0.004	0.100	0.155	219.914797	-62.697761	-162.12	-897.77
7	GUIDE	1181113992	9.50	1341	-0.056	-0.062	0.112	0.177	221.650516	-62.822918	1829.04	1200.87

2.4 Star Slots

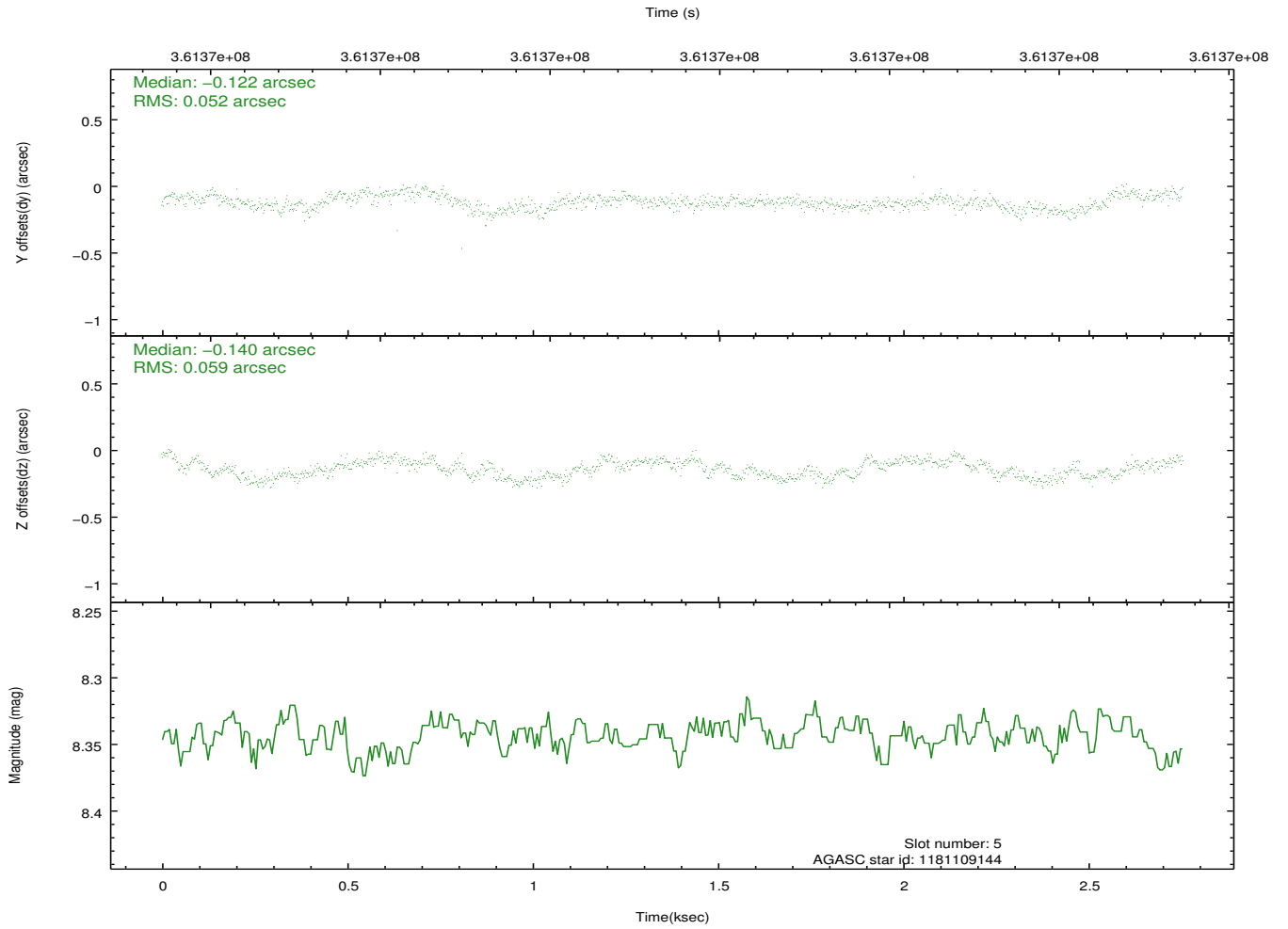
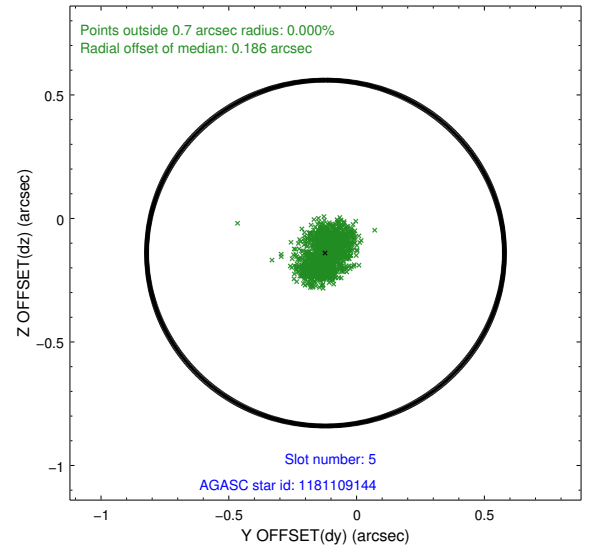
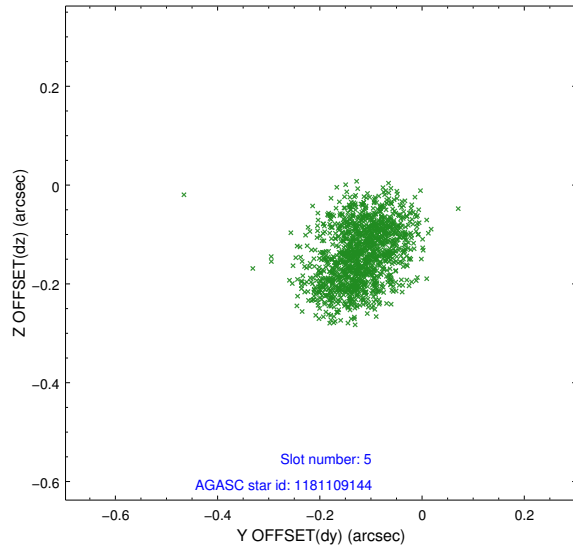
2.4.1 Slot 3



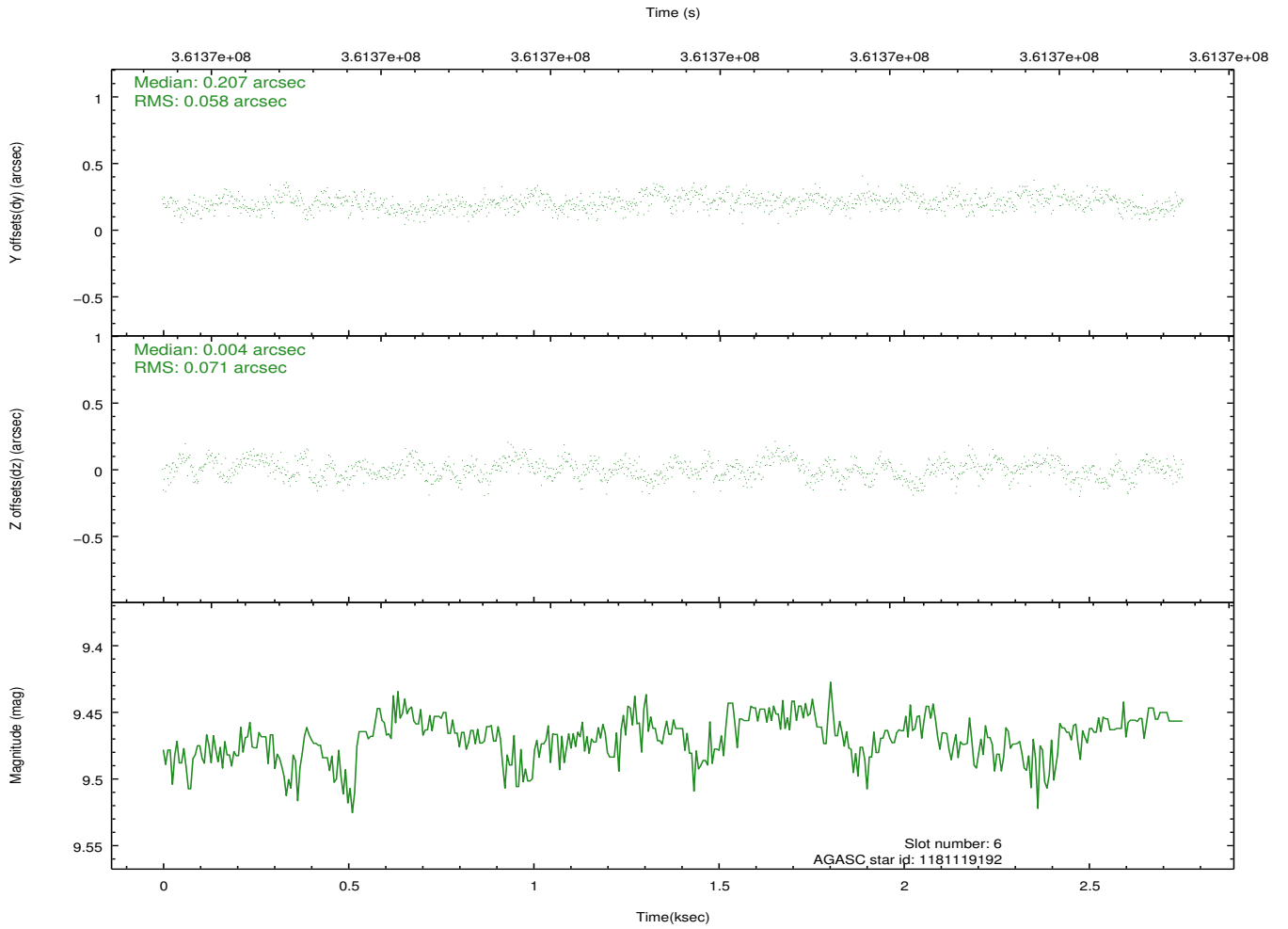
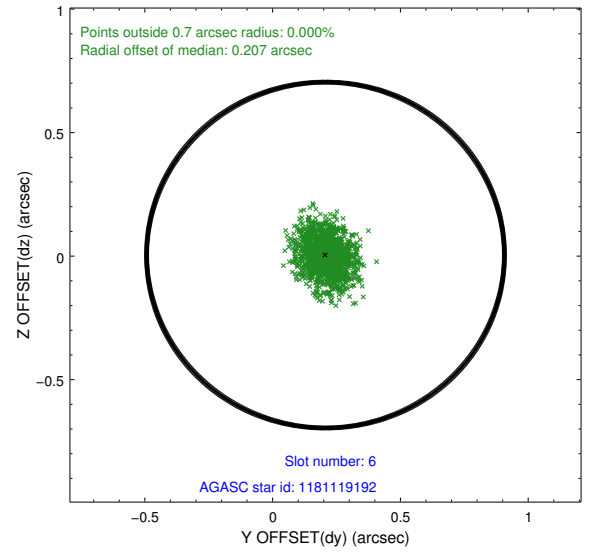
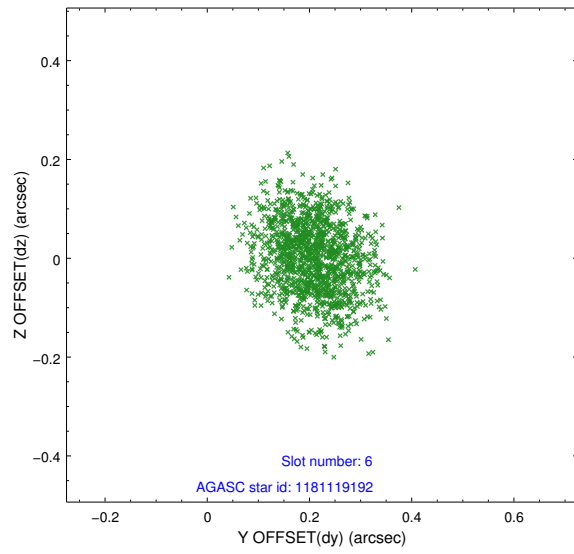
2.4.2 Slot 4



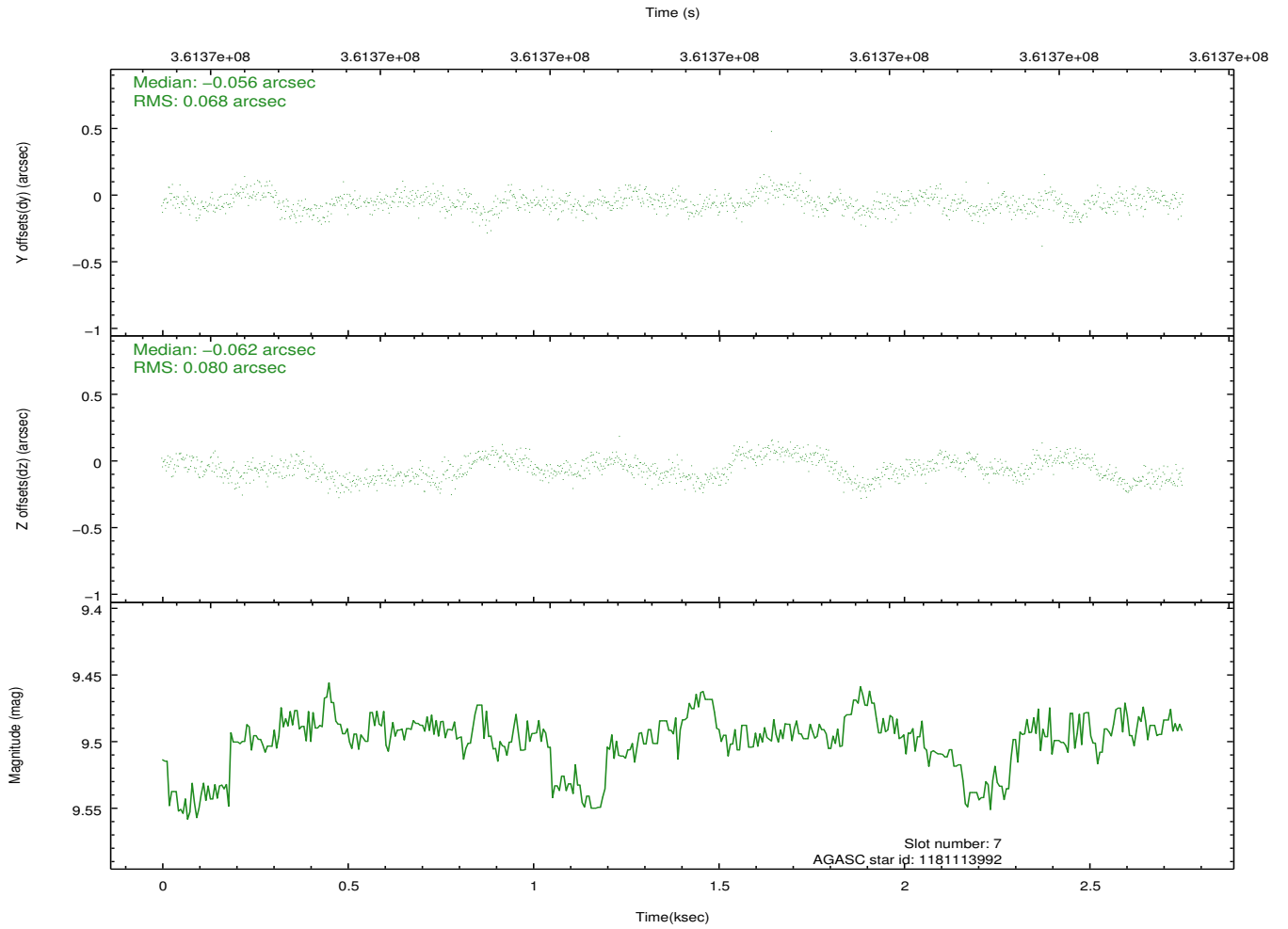
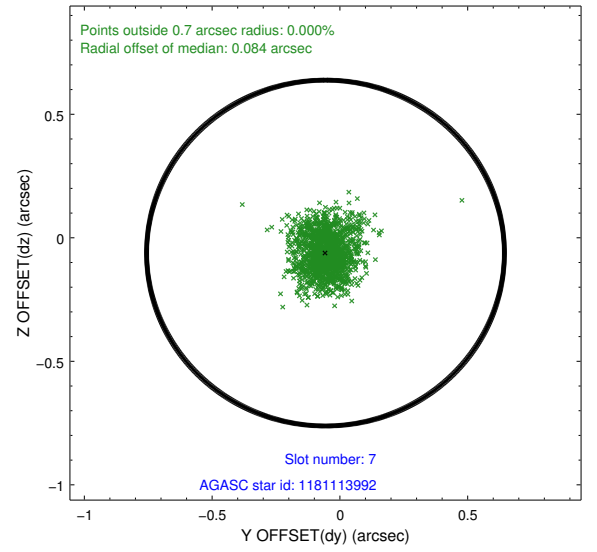
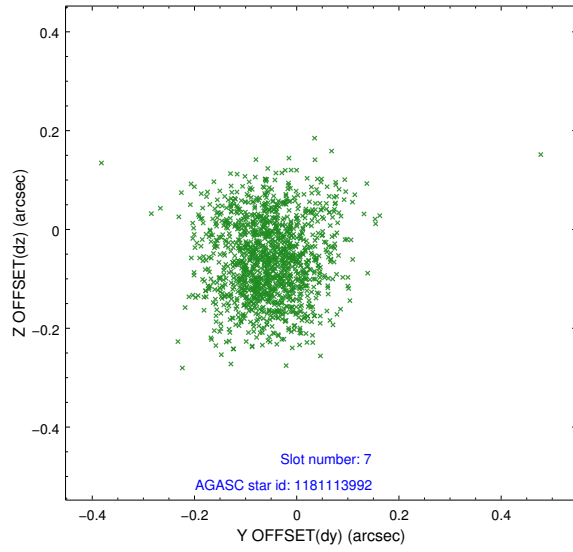
2.4.3 Slot 5



2.4.4 Slot 6

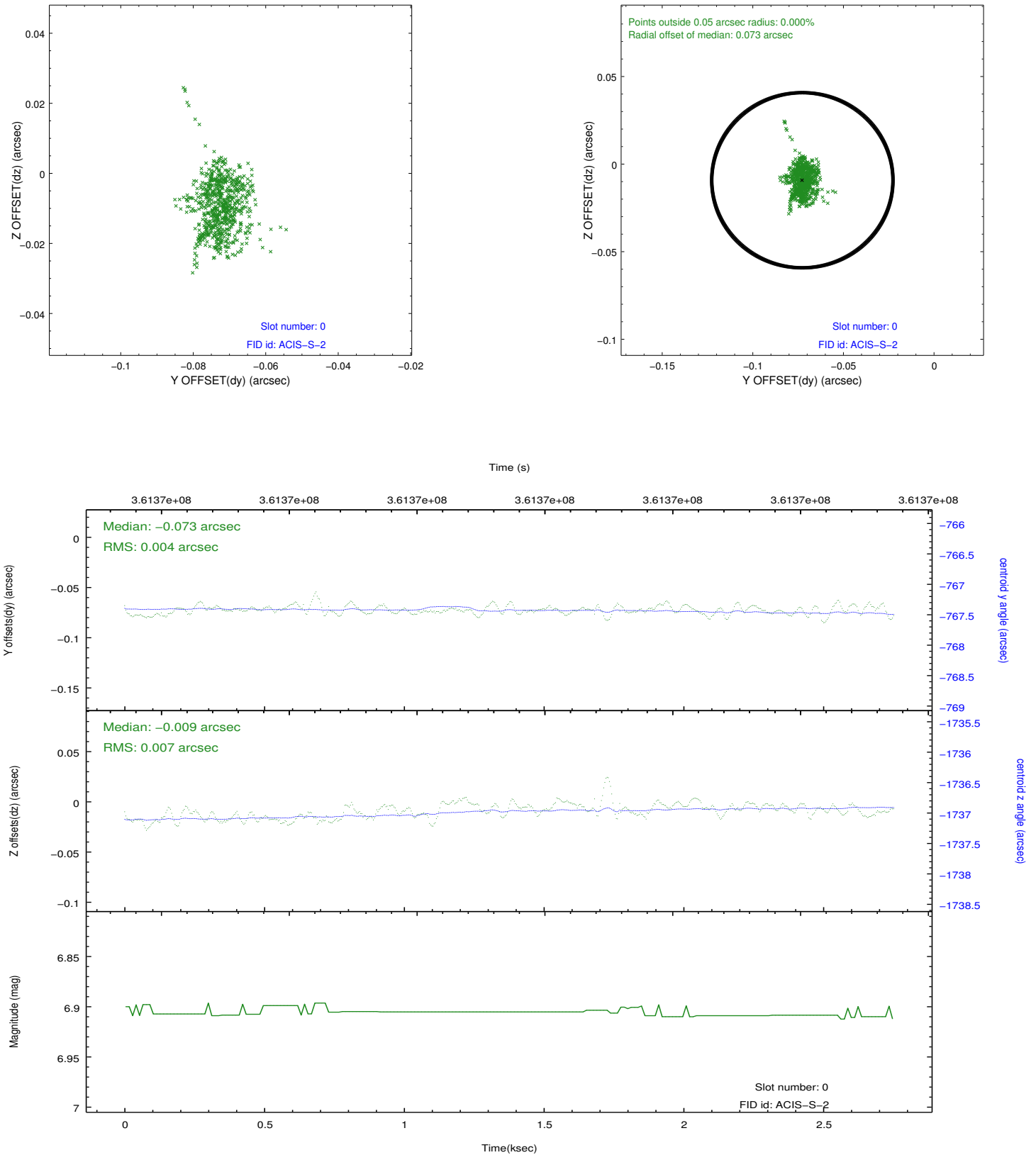


2.4.5 Slot 7

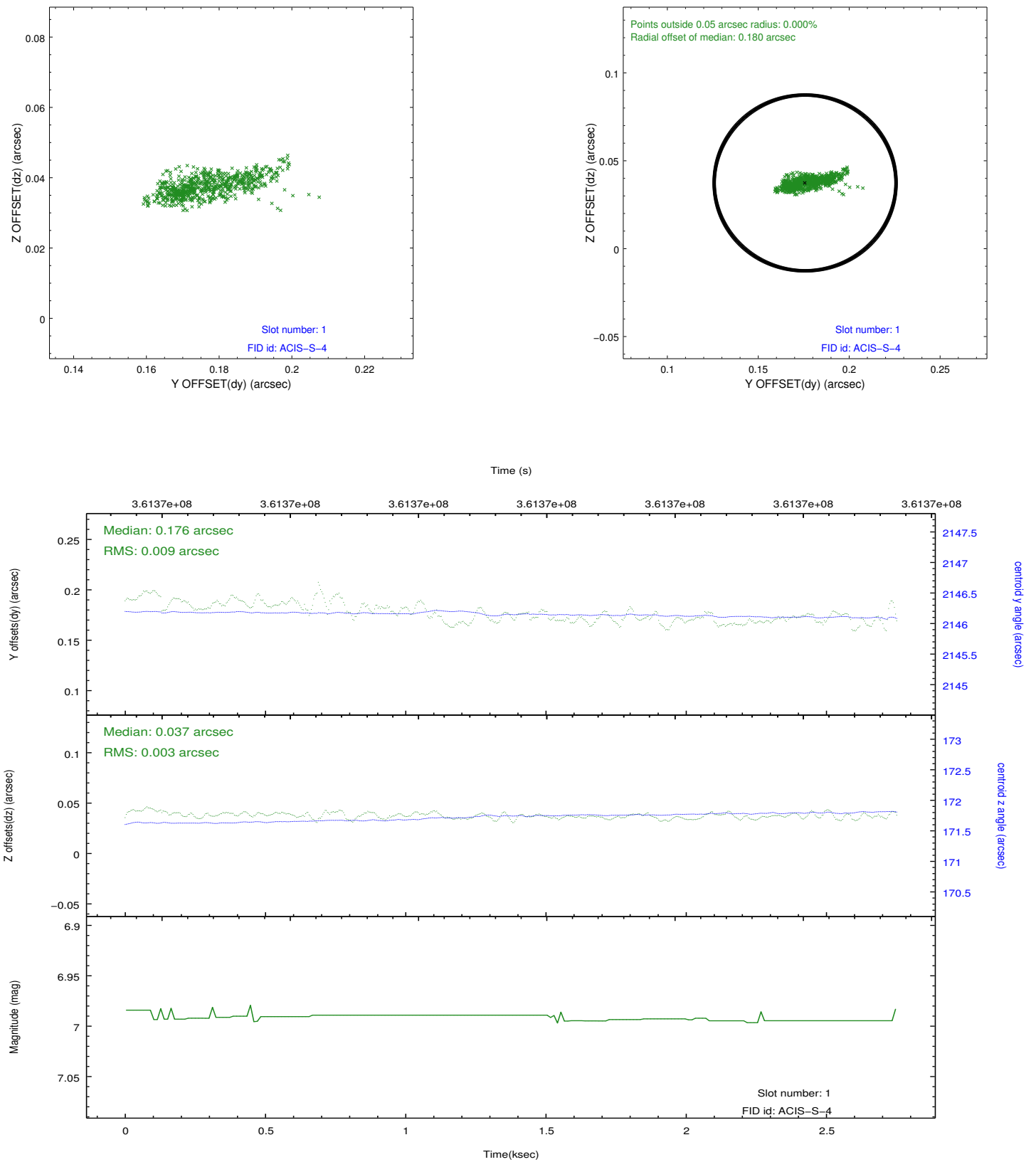


2.5 FID Slots

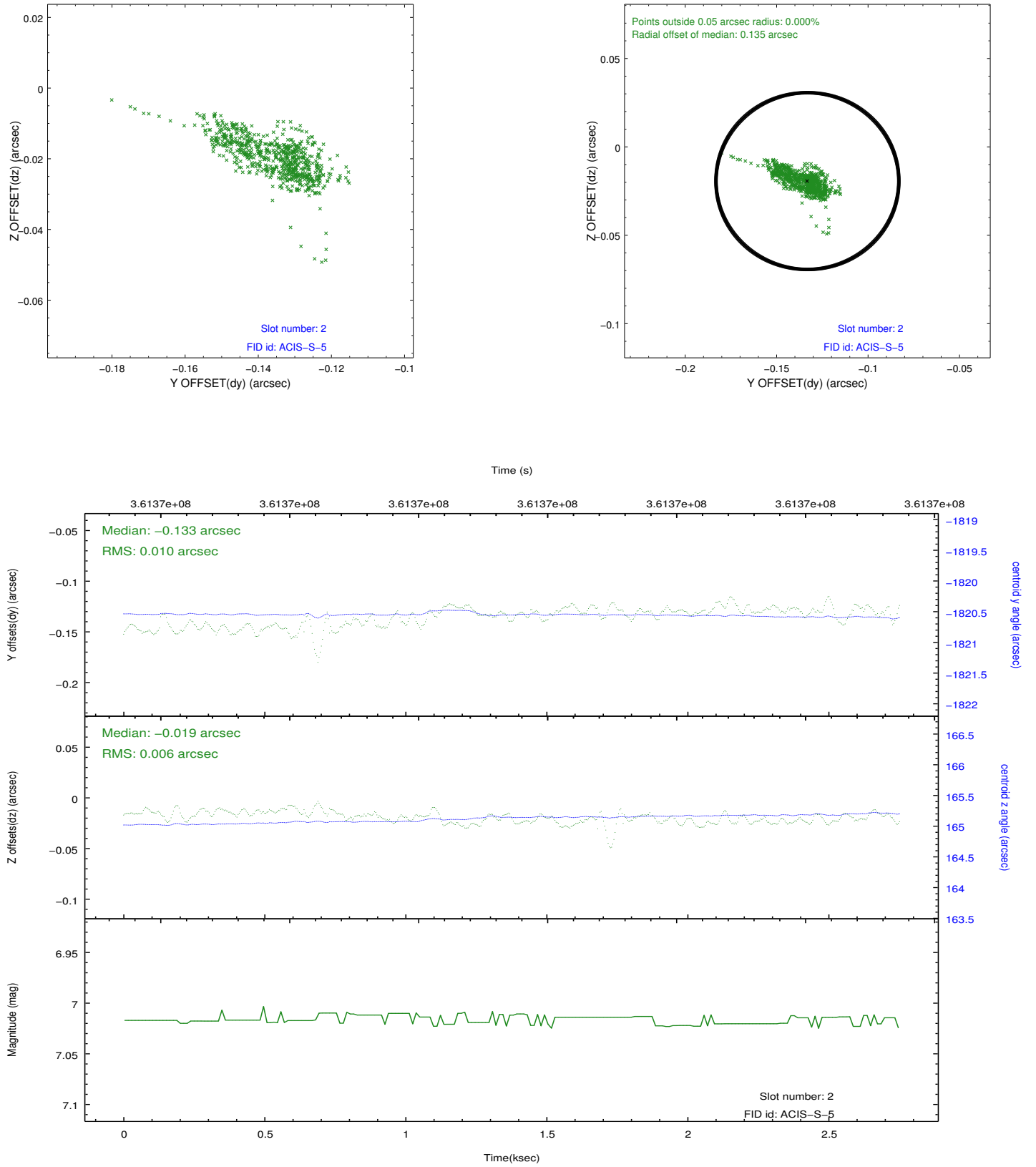
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.06.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.04159999

A.2 Comments