

V&V Reference Report

L2 ASCDS Version : 10.5

Observation 18655 - L2 Version 1
Chandra X-Ray Center

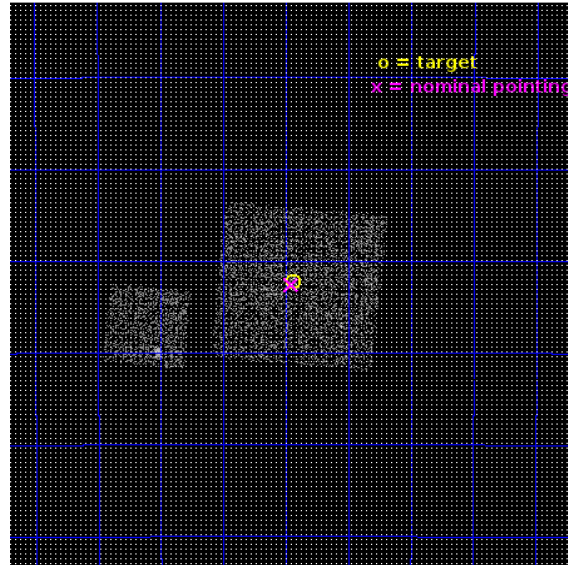
L2 Processing Date : Jul 26 2016

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1 Front

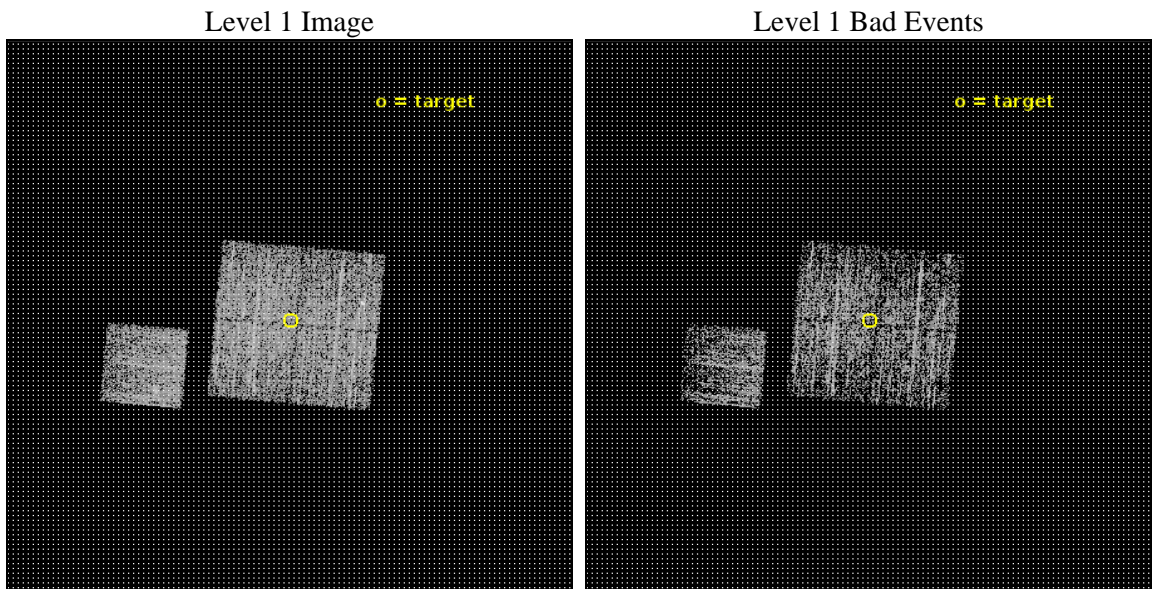
seq_num	300379	Sequence number
obs_id	18655	Observation id
title	X-raying the Galactic center/bulge interface	Proposal title
observer	Q. Daniel Wang	Principal investigator
object	GC-GB interface	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	264.61024	Observer's specified target RA [deg]
dec_targ	-29.03707	Observer's specified target Dec [deg]
ra_nom	264.61369330234	Nominal RA [deg]
dec_nom	-29.043257727047	Nominal Dec [deg]
roll_nom	275.28639043003	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1953.0000151396	Sum of GTIs [s]
livetime	1927.4826321641	Livetime [s]
ontime0	1953.0000151396	Sum of GTIs [s]
ontime1	1949.8589749336	Sum of GTIs [s]
ontime2	1949.8589749336	Sum of GTIs [s]
ontime3	1953.0000151396	Sum of GTIs [s]
ontime6	1953.0000151396	Sum of GTIs [s]
l2events	7179	Number of level 2 events



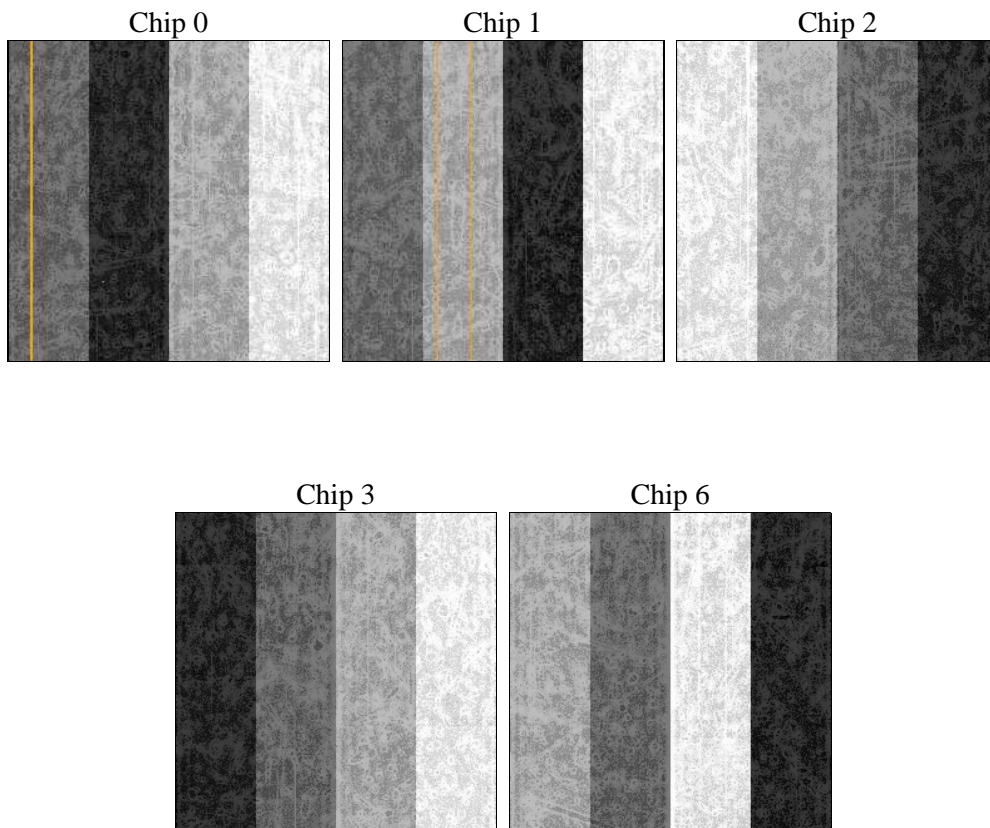
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2180.000000	[s] Scheduled observation exposure time
ascdsver	10.5	Processing system revision	ontime	1953.0000151396	Sum of GTIs [s]
caldsver	4.7.2	 	ontime0	1953.0000151396	Sum of GTIs [s]
date	2016-07-26T19:58:35	Date and time of file creation	ontime1	1949.8589749336	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1949.8589749336	Sum of GTIs [s]
			ontime3	1953.0000151396	Sum of GTIs [s]
			ontime6	1953.0000151396	Sum of GTIs [s]
			l1events	60863	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	12054	11119	12839	12585	12266
rejected events	10446	9133	11295	10975	10449
rejected %	86%	82%	87%	87%	85%

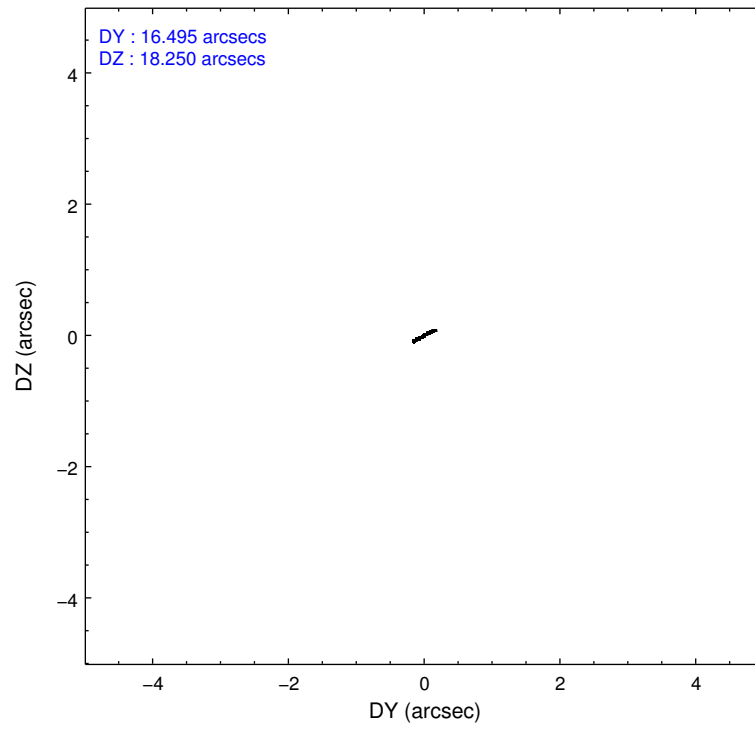
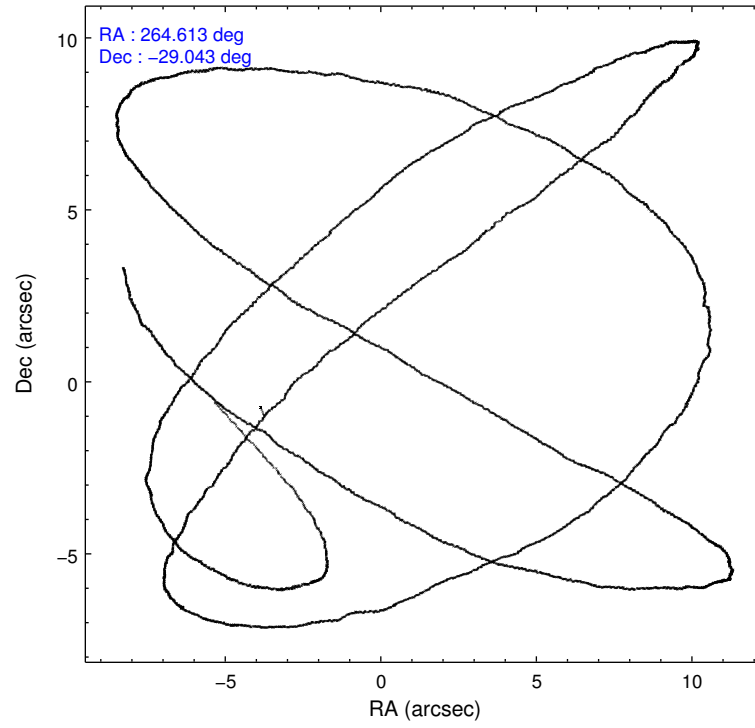
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	644	953	608	745	826
	5%	8%	4%	5%	6%
grade 1 events	5	5	9	6	8
	0%	0%	0%	0%	0%
grade 2 events	374	373	365	310	371
	3%	3%	2%	2%	3%
grade 3 events	148	136	152	155	153
	1%	1%	1%	1%	1%
grade 4 events	133	154	138	123	152
	1%	1%	1%	0%	1%
grade 5 events	589	604	541	585	575
	4%	5%	4%	4%	4%
grade 6 events	316	371	285	279	320
	2%	3%	2%	2%	2%
grade 7 events	9845	8523	10741	10382	9861
	81%	76%	83%	82%	80%

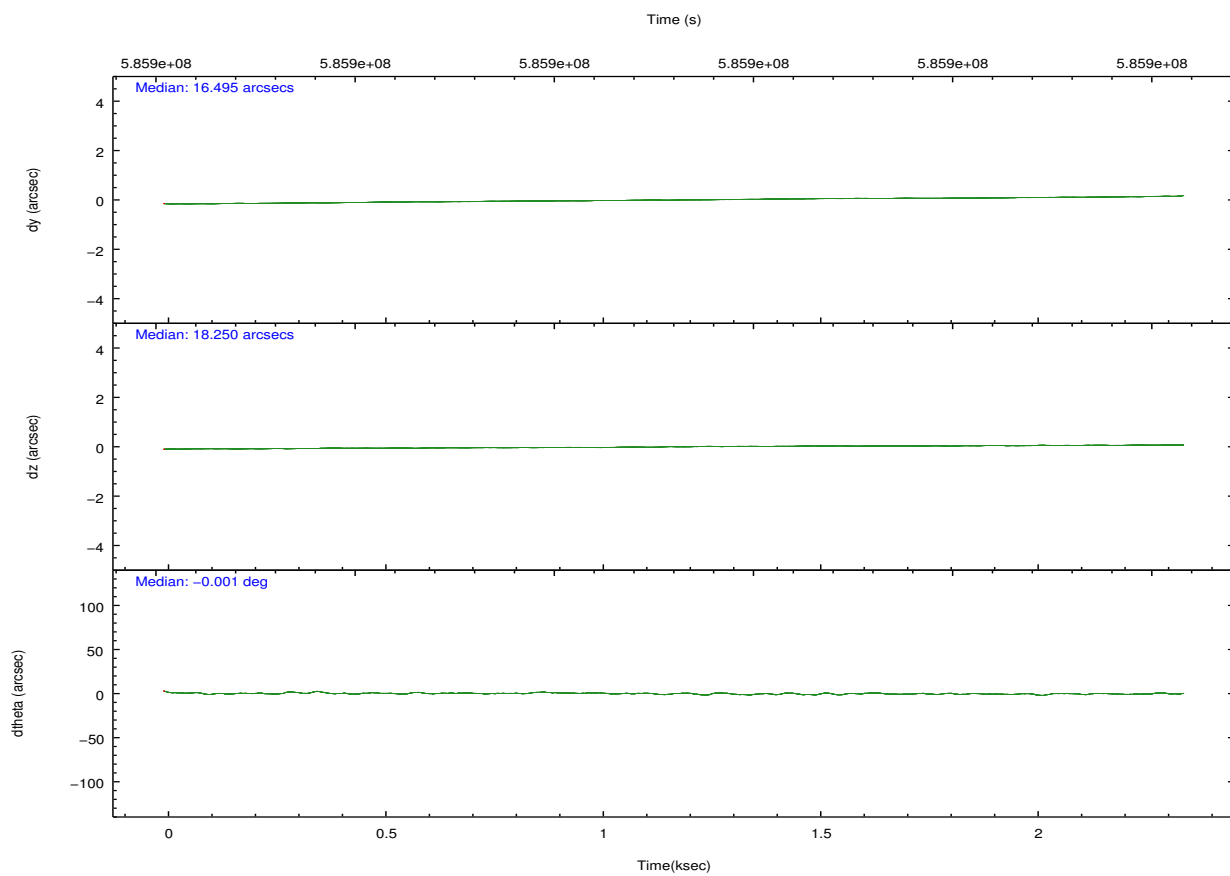
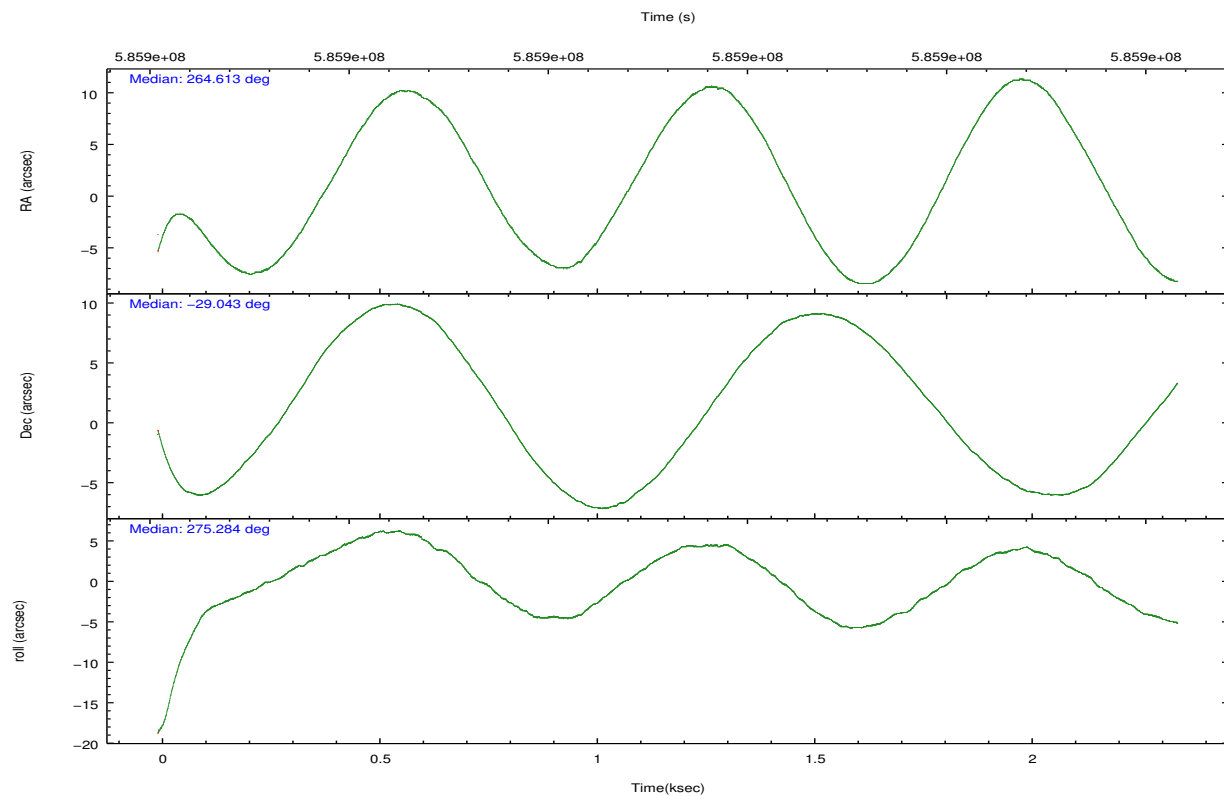
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-01236	ACIS-01236
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	264.595471	264.6136933023436
[deg] Pointing Dec	-29.020634	-29.0432577270466
[deg] Pointing Roll	275.068921	275.2863904300309
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.001439871863259334
[mm] SIM translation stage pos	-233.592463	-233.5874344608287
[mm] SIM translation stage offset	0	-0.005018542100998502
[s] Observation start time (MET)	585899803.184000	585898489.61031
Observation start date	2016-07-26T05:55:35	2016-07-26T05:34:49
[s] Observation end time (MET)	585901983.184000	585903493.6605901
Observation end date	2016-07-26T06:31:55	2016-07-26T06:58:13
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	Y	Y
CCD I1 on	Y	Y
CCD I2 on	Y	Y
CCD I3 on	Y	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	O1	Y
CCD S3 on	N	N
CCD S4 on	N	N
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



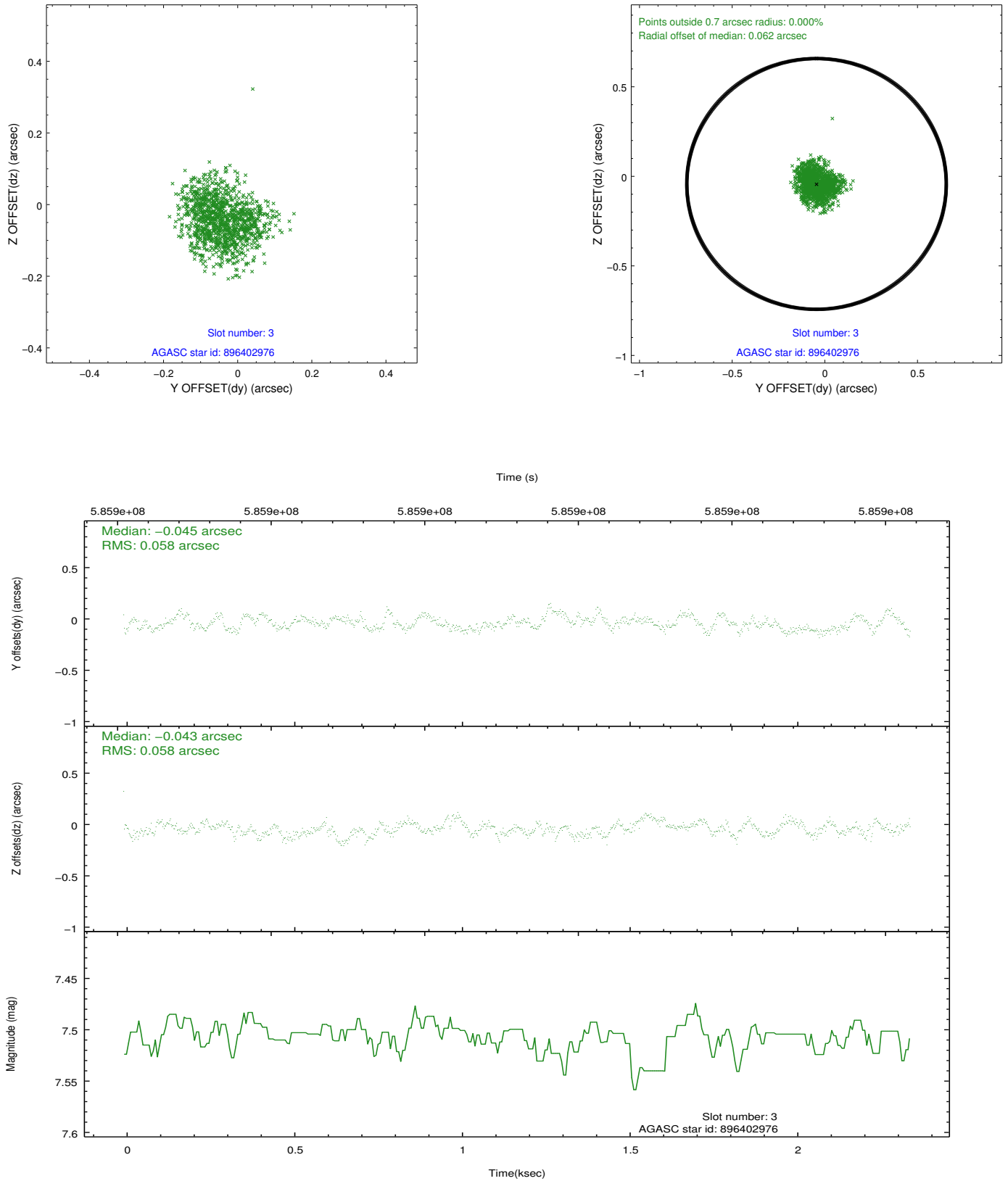


Slot Statistics

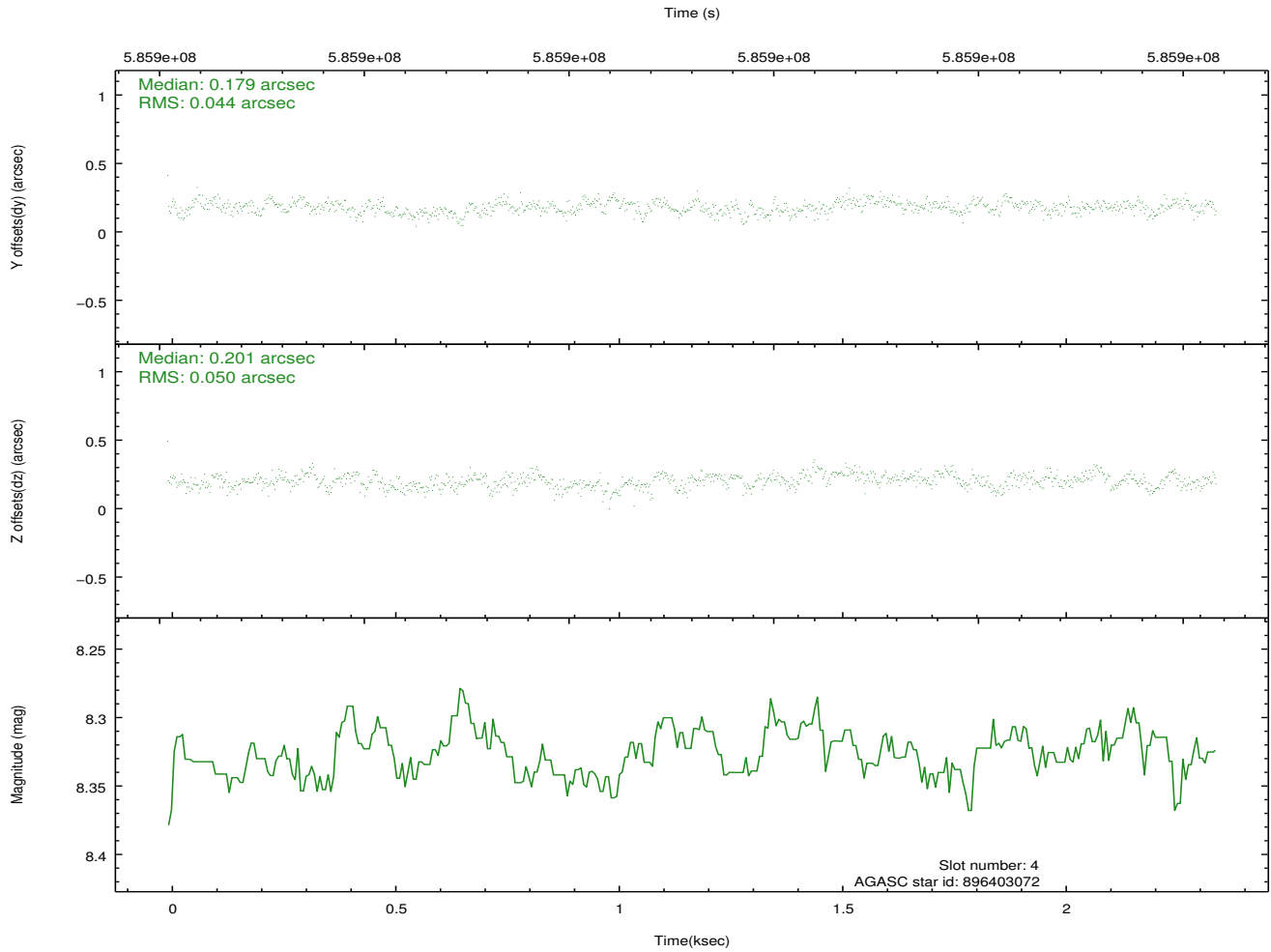
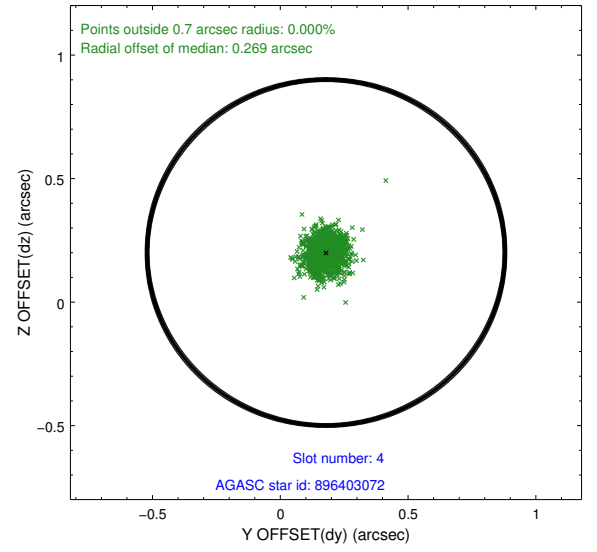
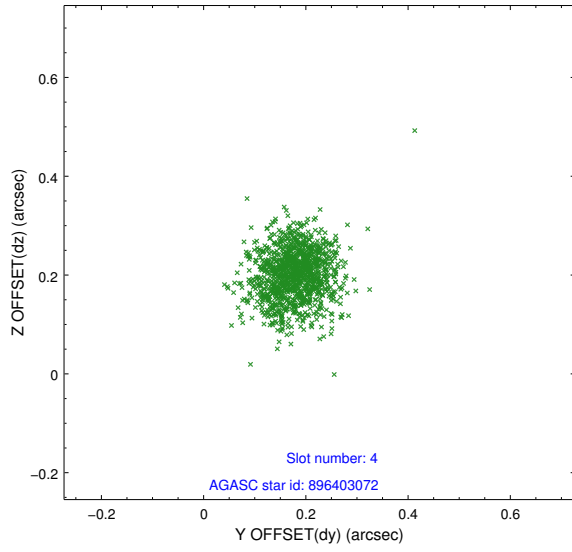
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.13	573	0.046	0.081	0.008	0.013	0.000000	0.000000	922.96	-841.86
1	FID		ACIS-I-2	7.05	572	-0.173	-0.098	0.008	0.014	0.000000	0.000000	-769.82	-849.85
2	FID		ACIS-I-6	7.16	573	0.036	0.085	0.007	0.013	0.000000	0.000000	387.36	1698.56
3	GUIDE	used	896402976	7.50	1145	-0.045	-0.043	0.088	0.135	265.099474	-28.923203	-206.08	1613.00
4	GUIDE	used	896403072	8.33	1145	0.179	0.201	0.071	0.111	263.956439	-28.943077	-450.76	-1979.05
5	GUIDE	used	896404376	6.66	1145	0.110	-0.328	0.083	0.135	264.835179	-29.530972	1896.56	584.05
6	GUIDE	used	896405480	8.23	1145	-0.163	0.087	0.088	0.142	265.220460	-29.599691	2255.70	1765.32
7	GUIDE	used	896405616	7.82	1144	-0.086	0.086	0.083	0.148	264.752771	-28.412560	-2133.44	690.25

2.4 Star Slots

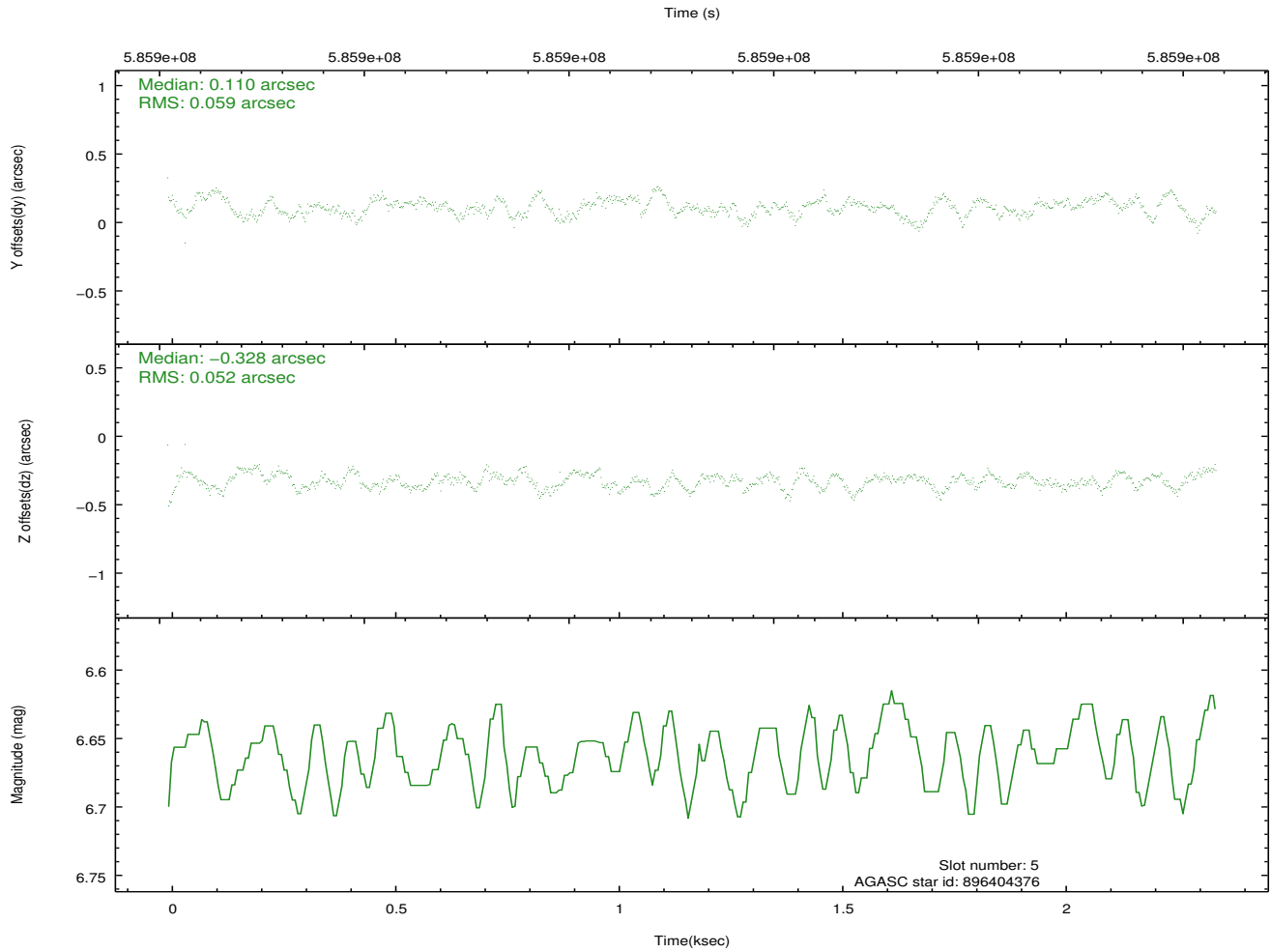
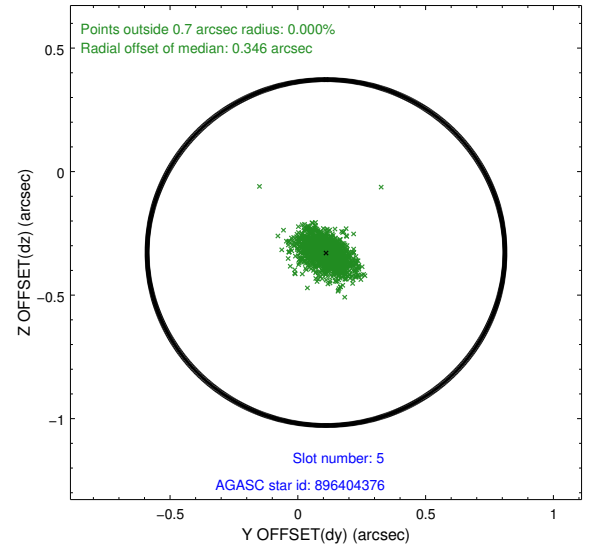
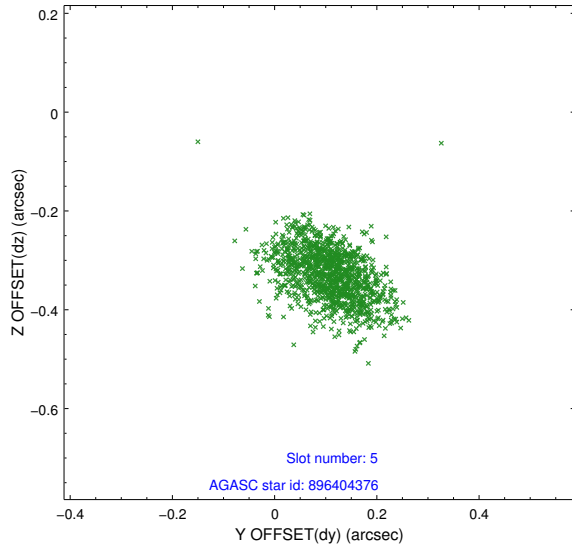
2.4.1 Slot 3



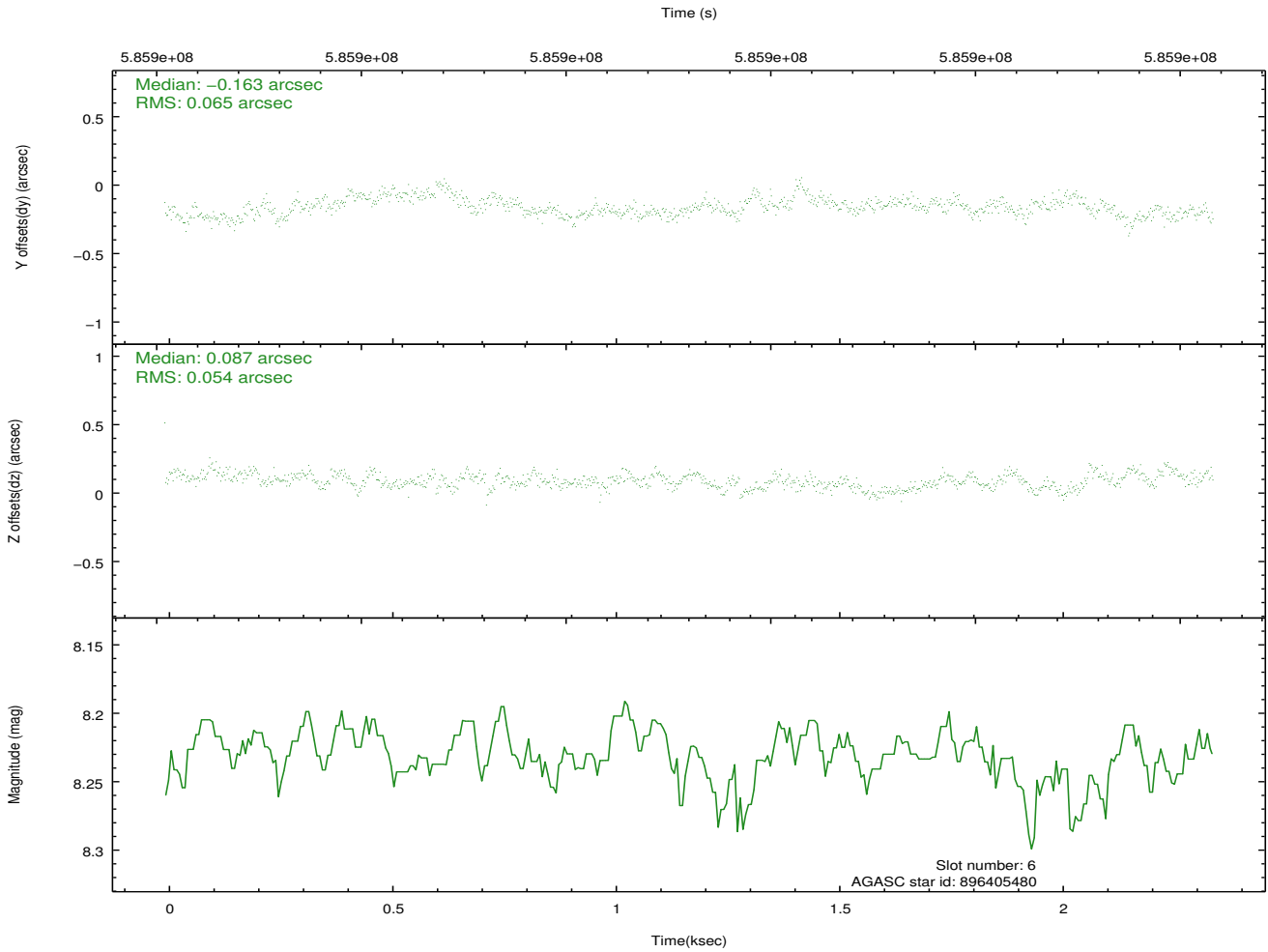
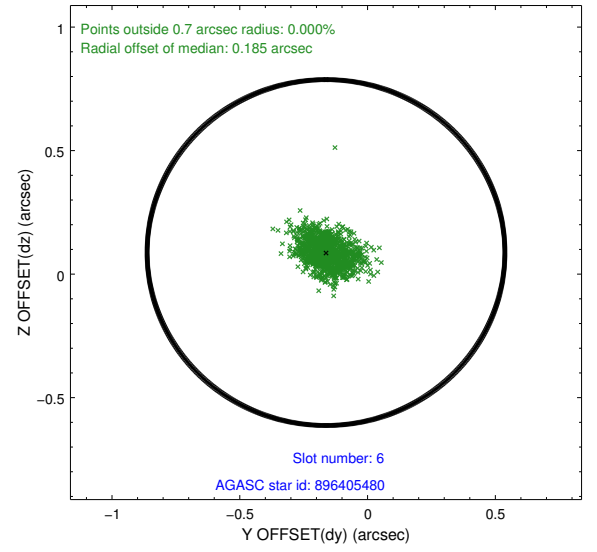
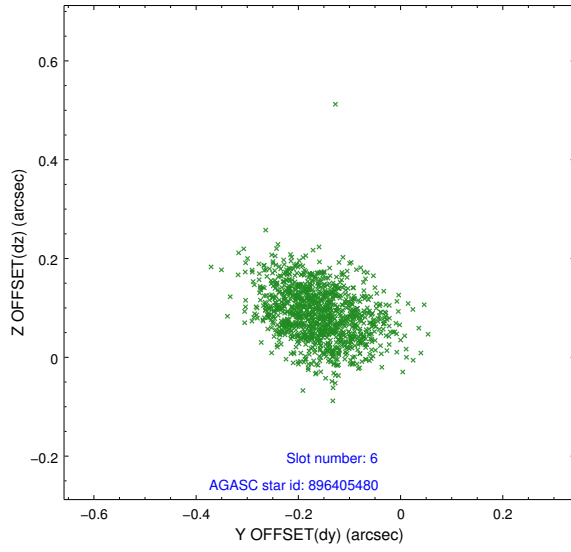
2.4.2 Slot 4



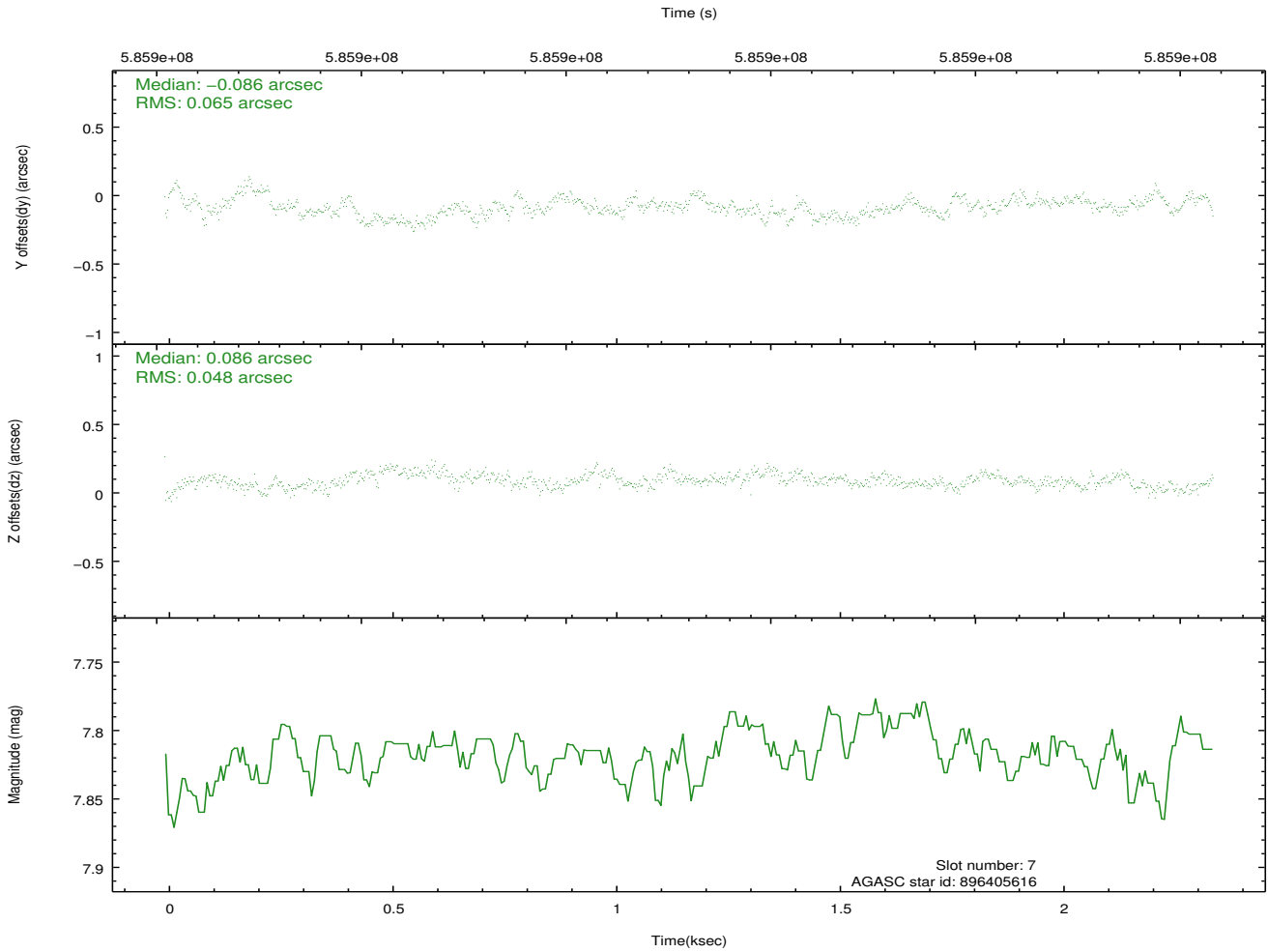
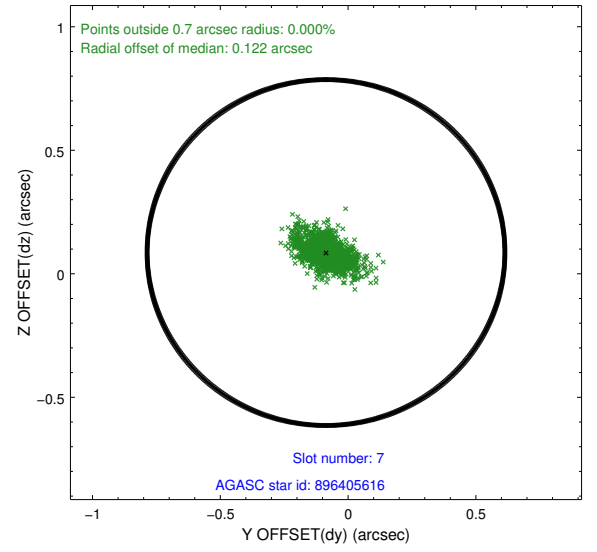
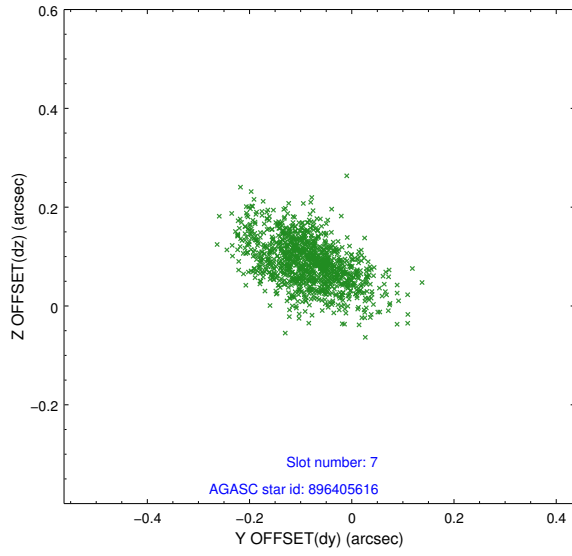
2.4.3 Slot 5



2.4.4 Slot 6

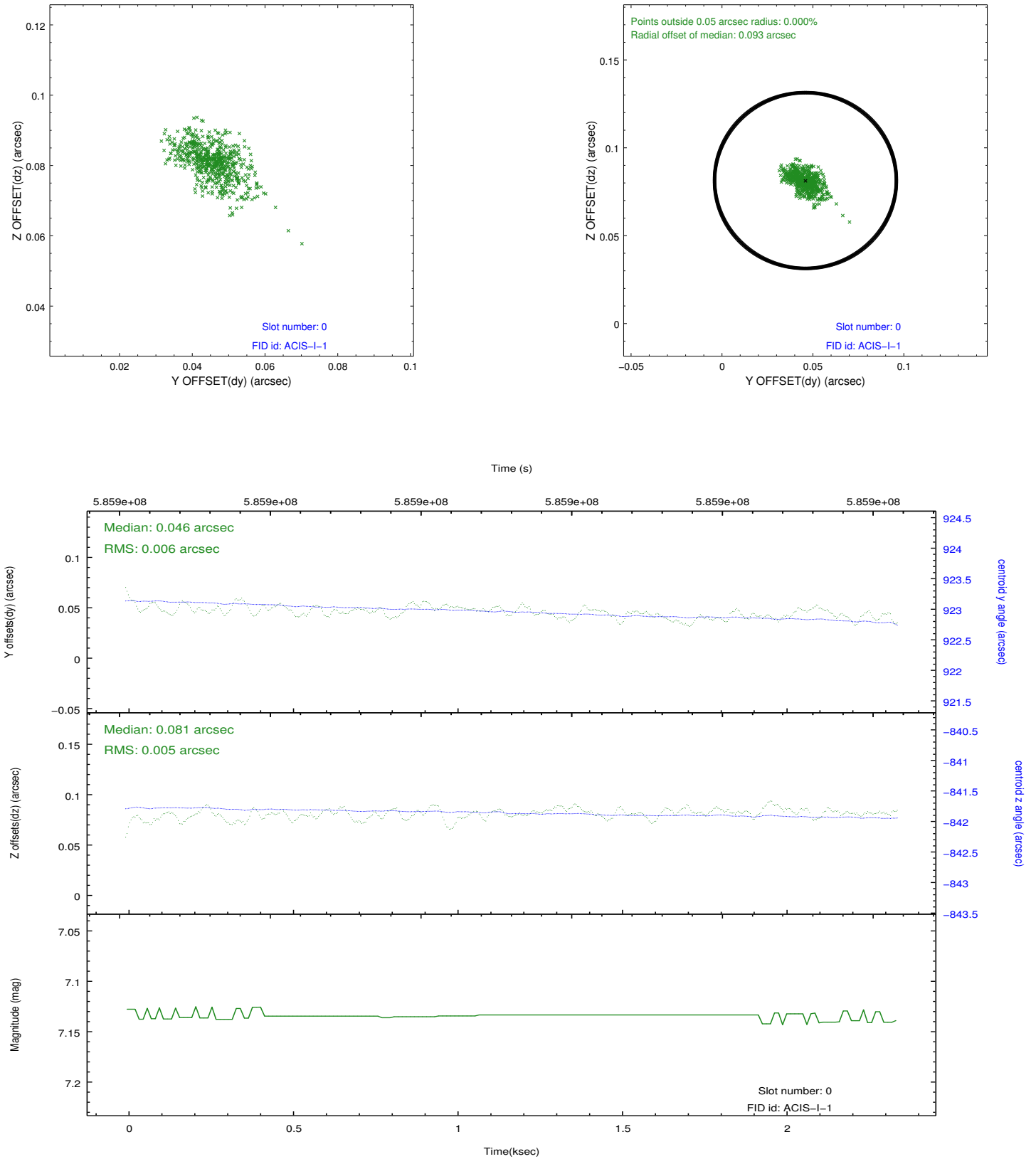


2.4.5 Slot 7

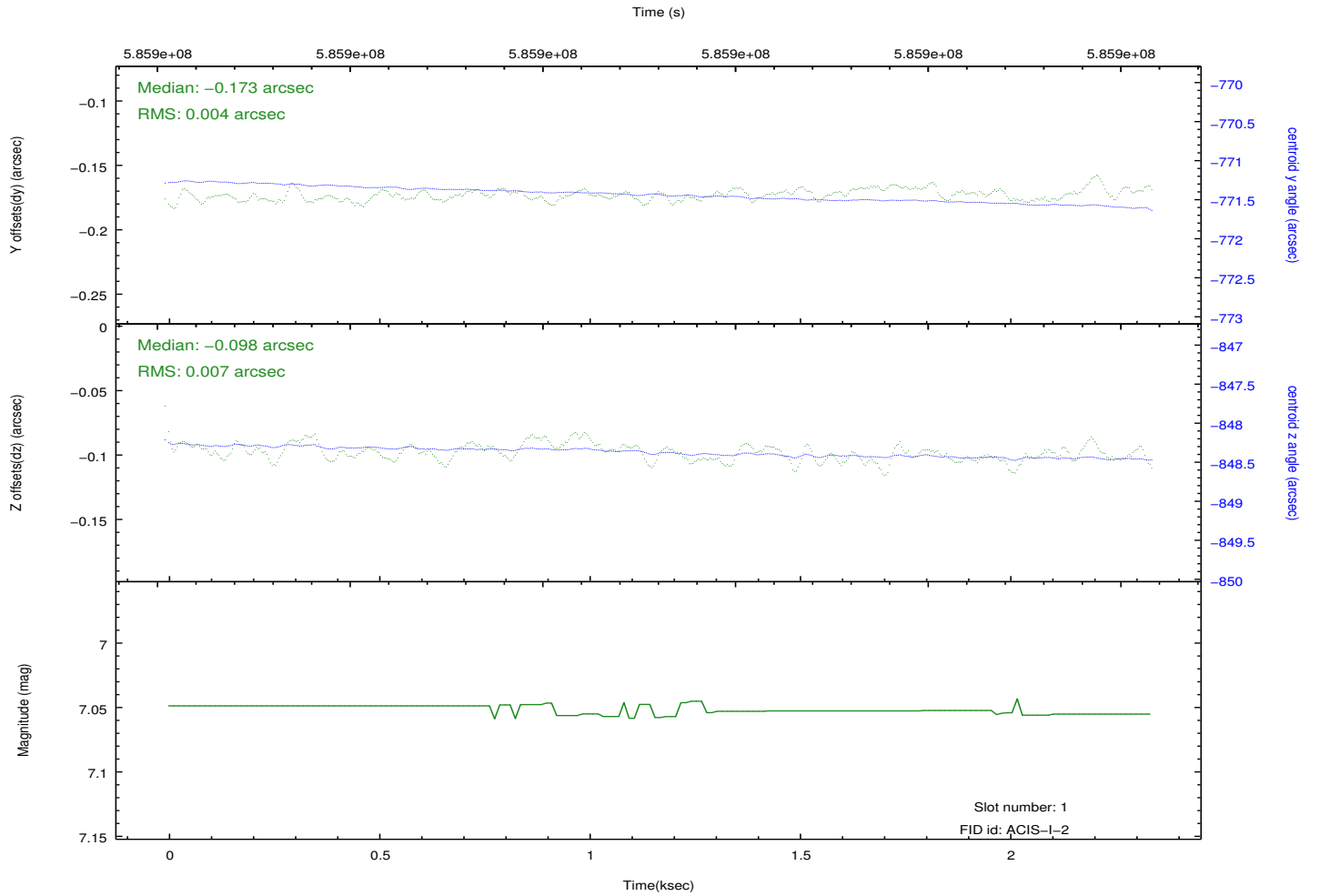
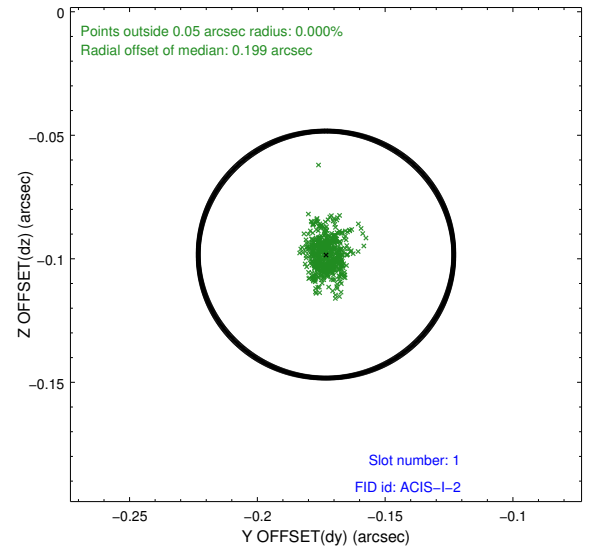
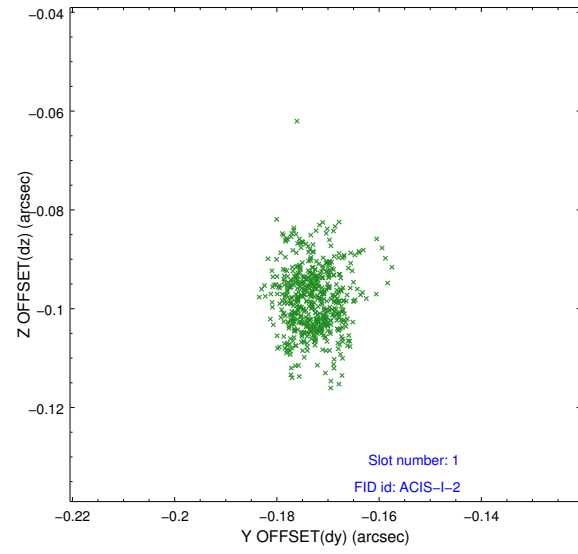


2.5 FID Slots

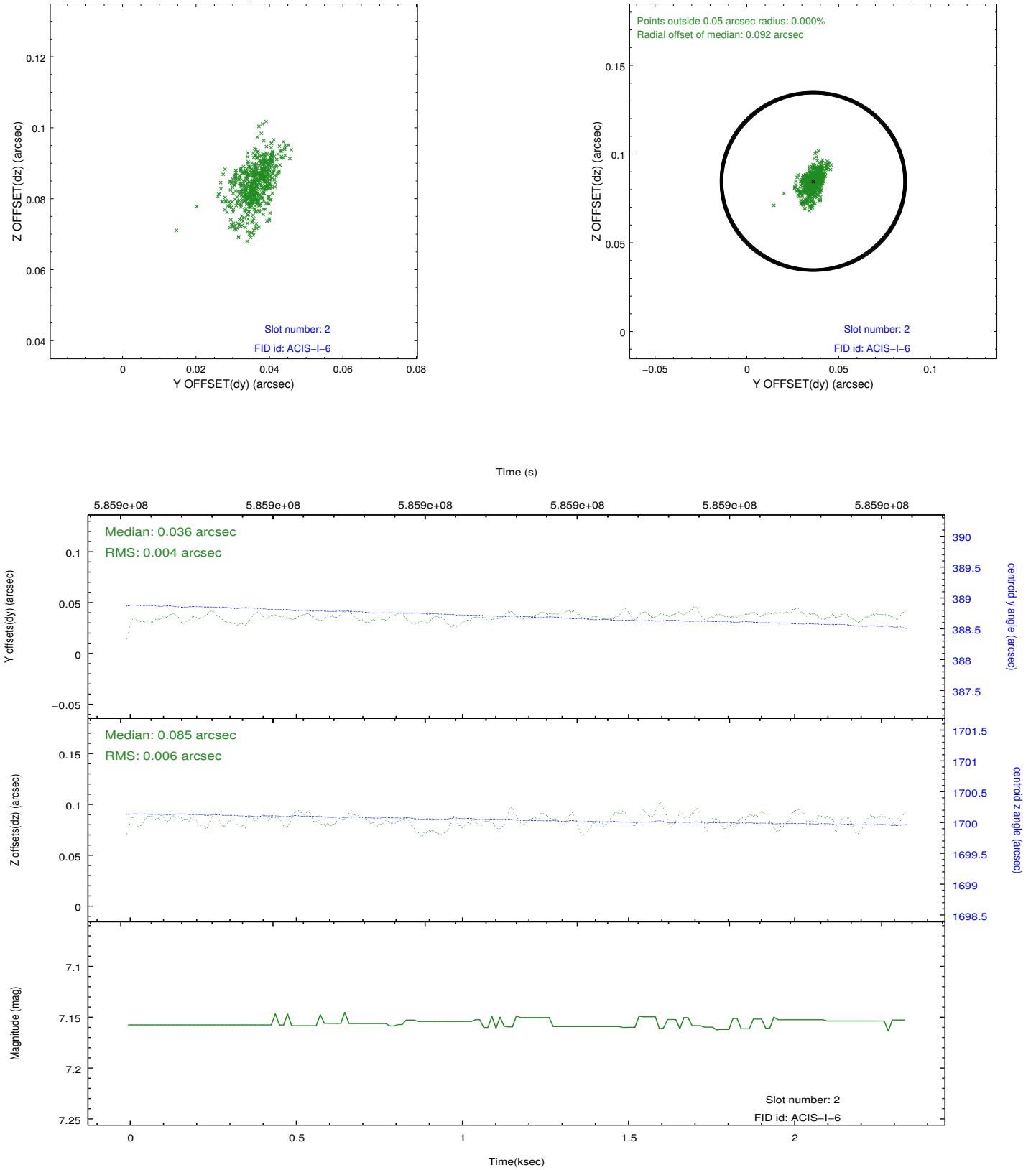
2.5.1 Slot 0



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)	2016.07.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.9530000151396

A.2 Comments