

V&V Reference Report

L2 ASCDS Version : 10.5.4

Observation 19722 - L2 Version 1
Chandra X-Ray Center

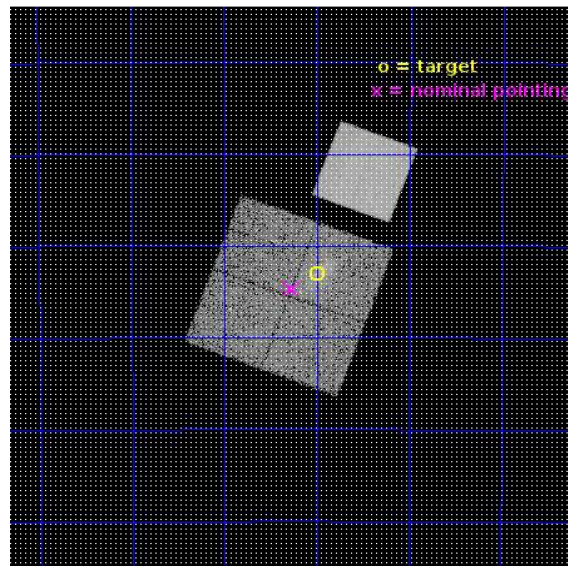
L2 Processing Date : May 5 2017

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1 Front

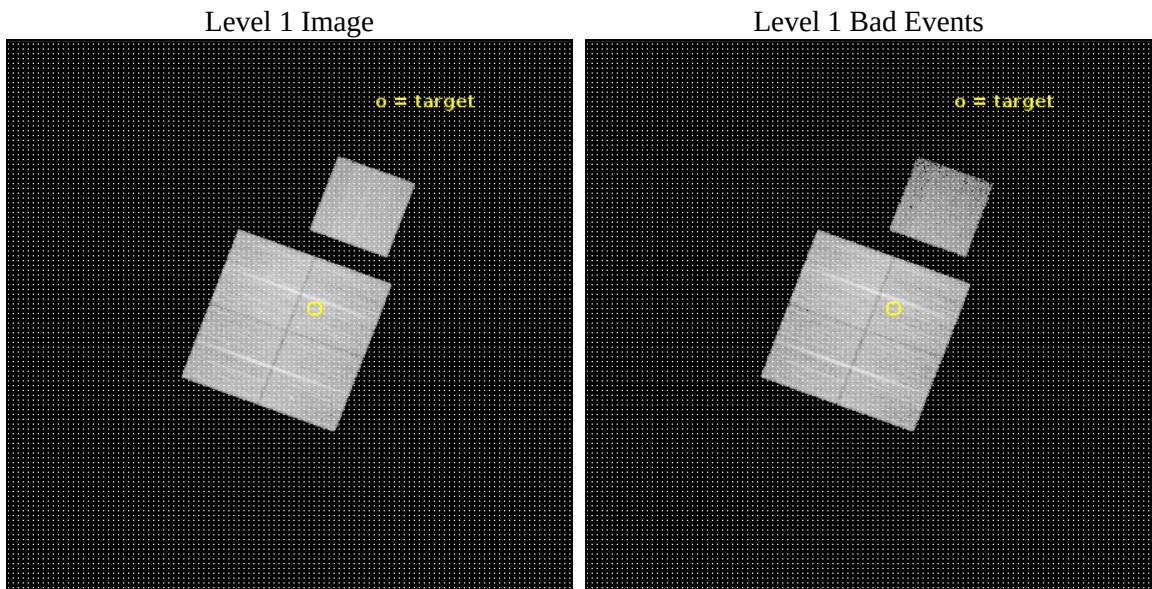
seq_num	502965	Sequence number
obs_id	19722	Observation id
title	Is XMM J153559.6-494306 a pulsar wind nebula?	Proposal title
observer	Gordon Garmire	Principal investigator
object	3xmm153559	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	233.998333	Observer's specified target RA [deg]
dec_targ	-49.718333	Observer's specified target Dec [deg]
ra_nom	234.06894164265	Nominal RA [deg]
dec_nom	-49.744793330309	Nominal Dec [deg]
roll_nom	20.392822158894	Nominal Roll [deg]
revision	1	Processing version of data
ontime	25094.459172845	Sum of GTIs [s]
livetime	24766.58158948	Livetime [s]
ontime0	25094.459182858	Sum of GTIs [s]
ontime1	25097.600193143	Sum of GTIs [s]
ontime2	25094.459192753	Sum of GTIs [s]
ontime3	25094.459172845	Sum of GTIs [s]
ontime7	25097.600193143	Sum of GTIs [s]
l2events	103259	Number of level 2 events



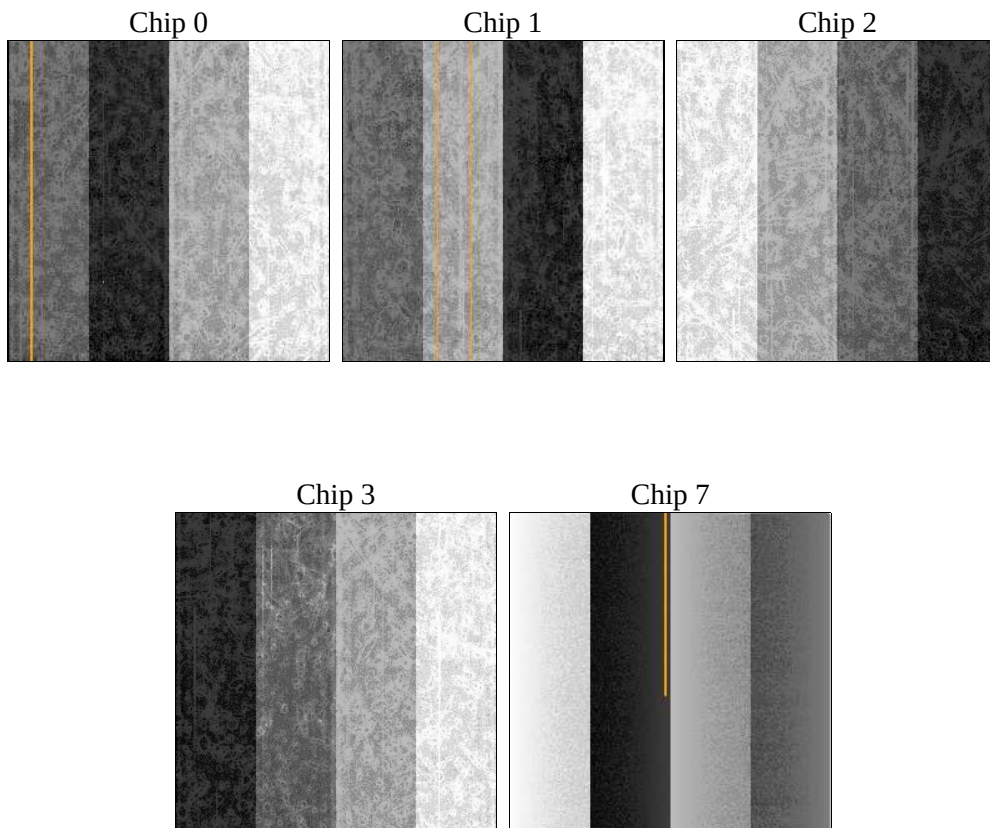
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.4	Processing system revision	ontime	25094.459172845	Sum of GTIs [s]
caldsver	4.7.4	 	ontime0	25094.459182858	Sum of GTIs [s]
date	2017-05-06T00:31:01	Date and time of file creation	ontime1	25097.600193143	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	25094.459192753	Sum of GTIs [s]
			ontime3	25094.459172845	Sum of GTIs [s]
			ontime7	25097.600193143	Sum of GTIs [s]
			l1events	664462	Number of level 1 events

2.1.4 Events

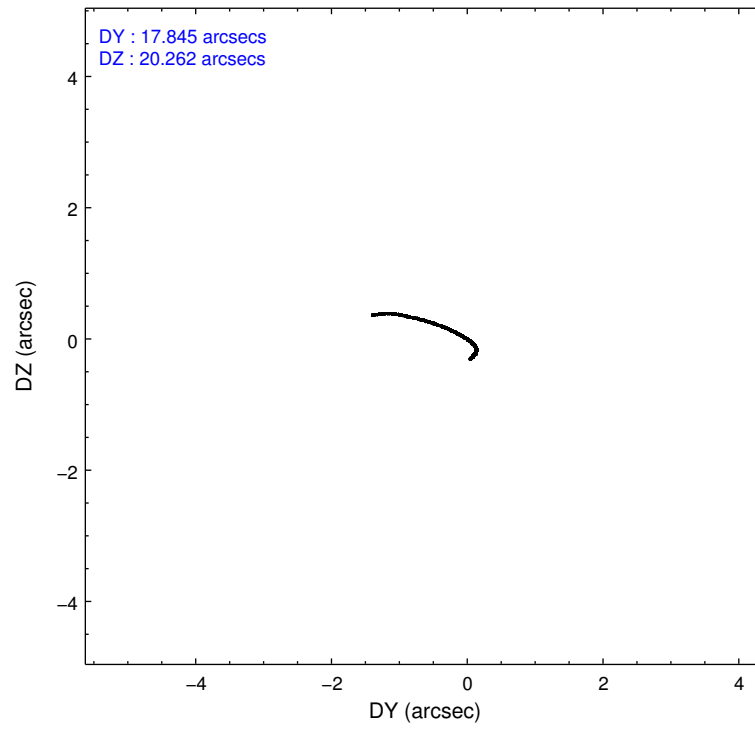
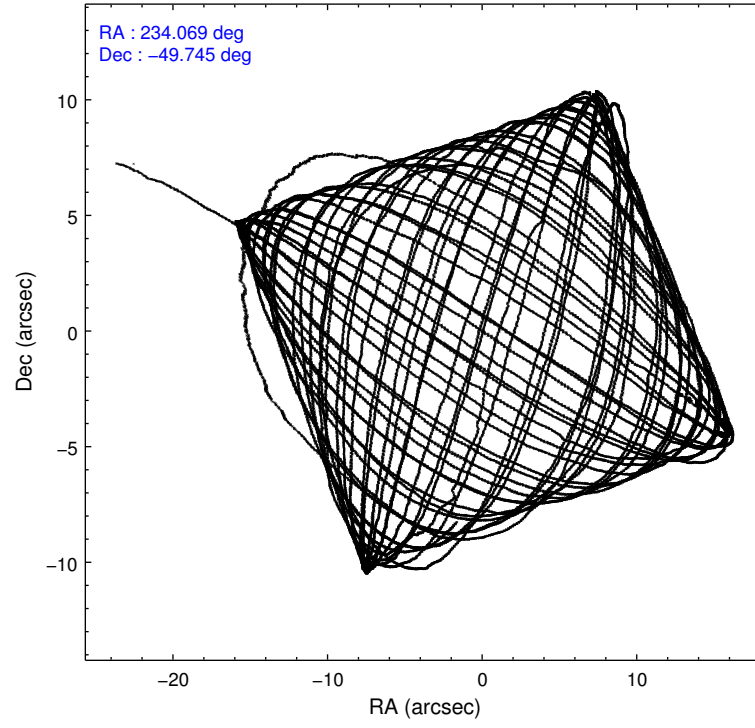
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	127236	130424	159139	144573	103090
rejected events	111988	115363	144317	128492	46249
rejected %	88%	88%	90%	88%	44%

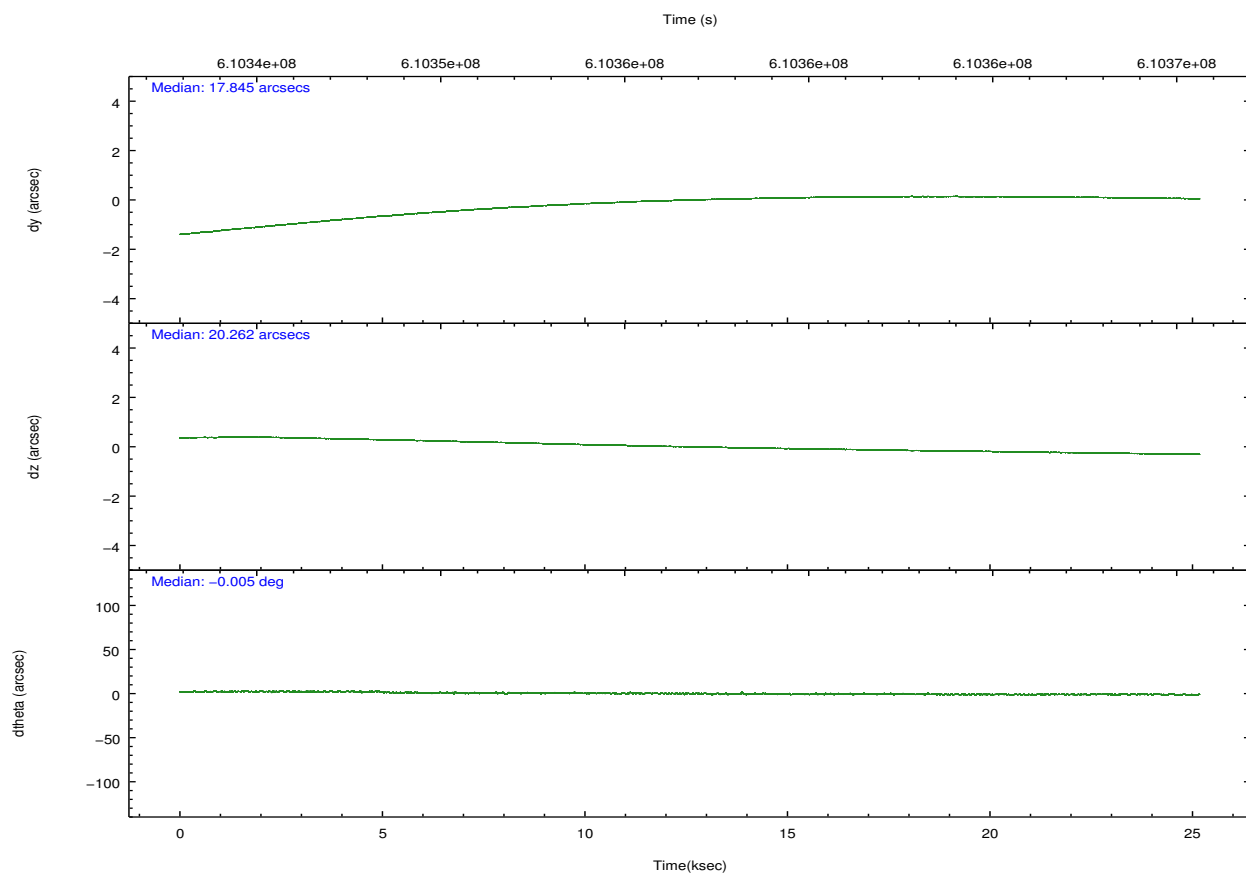
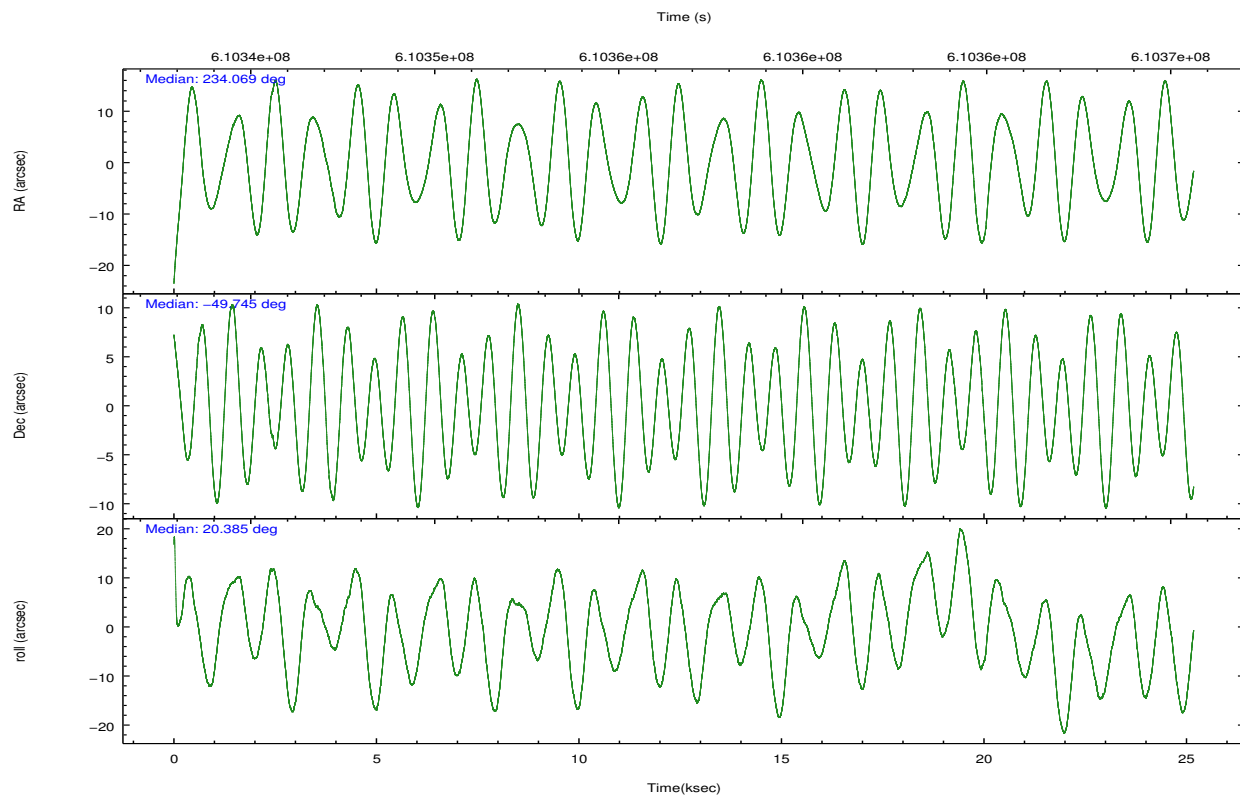
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	6302	6149	6195	7638	6948
	4%	4%	3%	5%	6%
grade 1 events	93	81	90	99	302
	0%	0%	0%	0%	0%
grade 2 events	3897	3456	3765	3291	14293
	3%	2%	2%	2%	13%
grade 3 events	1423	1512	1304	1385	5195
	1%	1%	0%	0%	5%
grade 4 events	1445	1518	1410	1435	5138
	1%	1%	0%	0%	4%
grade 5 events	3136	3499	2778	3734	10393
	2%	2%	1%	2%	10%
grade 6 events	2185	2435	2157	2334	25273
	1%	1%	1%	1%	24%
grade 7 events	108755	111774	141440	124657	35548
	85%	85%	88%	86%	34%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01237	ACIS-01237	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	234.041847	234.0689416426515	CCD I2 on	Y	Y
[deg] Pointing Dec	-49.766112	-49.74479333030929	CCD I3 on	Y	Y
[deg] Pointing Roll	20.163440	20.39282215889365	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O2	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	610344365.184000	610343369.06046	CCD S5 on	N	N
Observation start date	2017-05-05T04:04:56	2017-05-05T03:49:29	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	610369365.184000	610369640.83699	On-chip summing requested	N	N
Observation end date	2017-05-05T11:01:36	2017-05-05T11:07:20	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



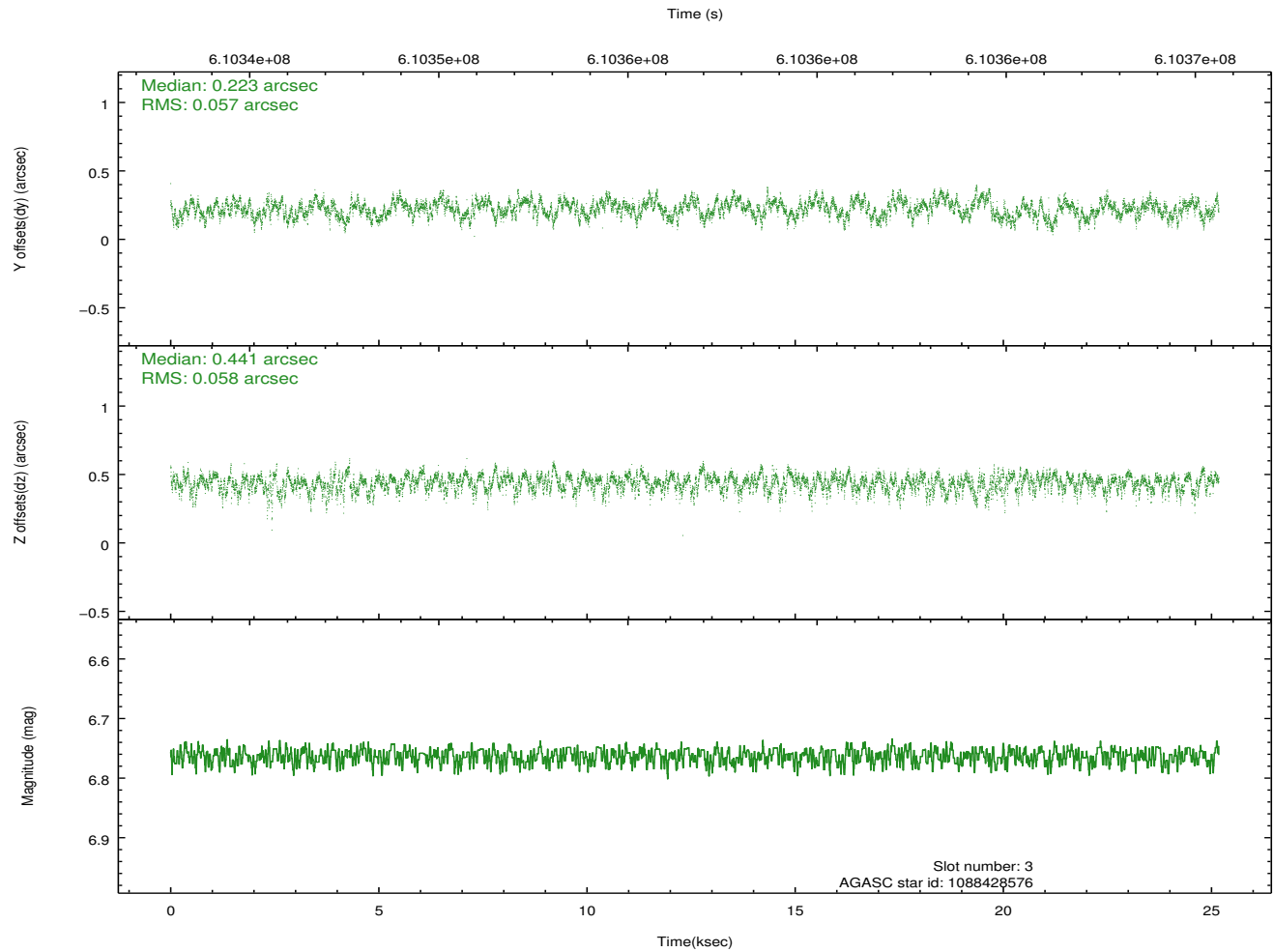
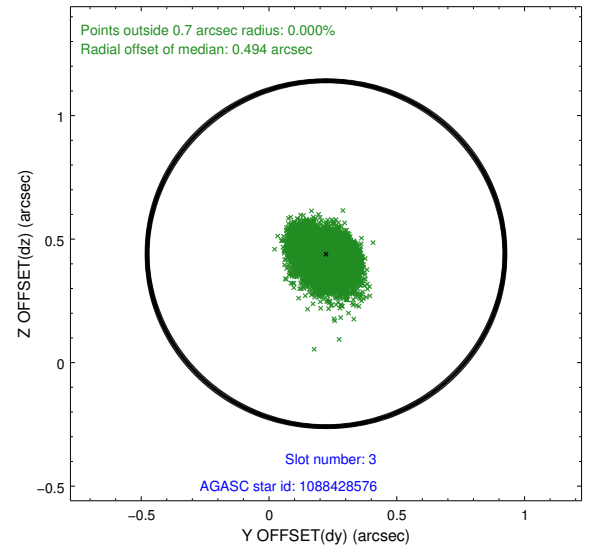
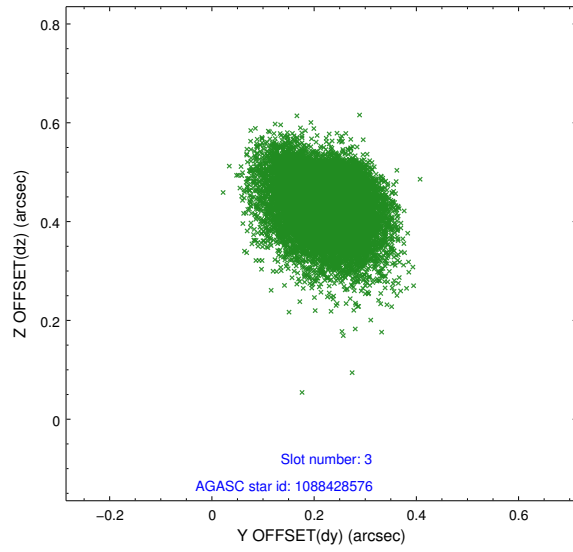


Slot Statistics

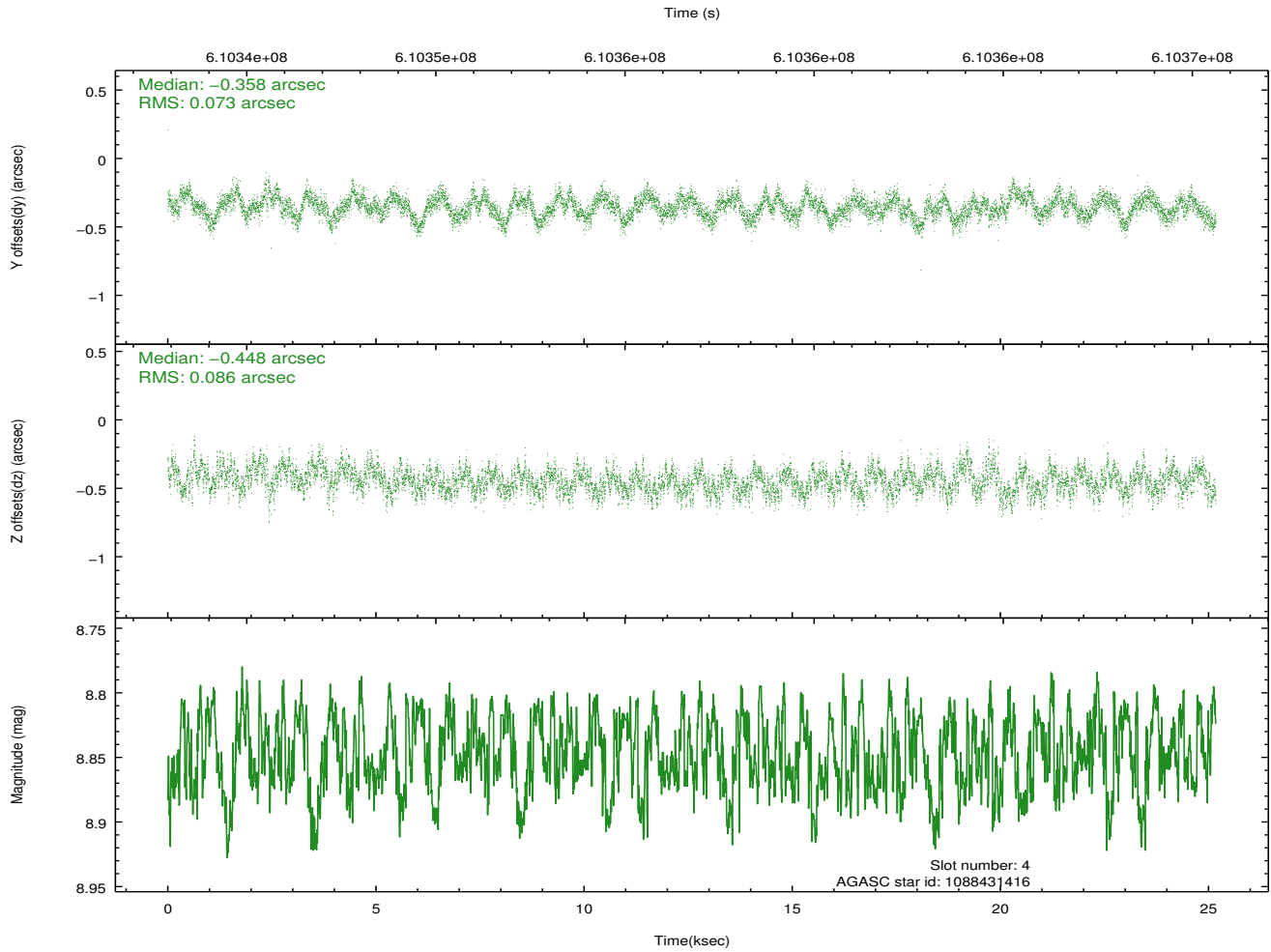
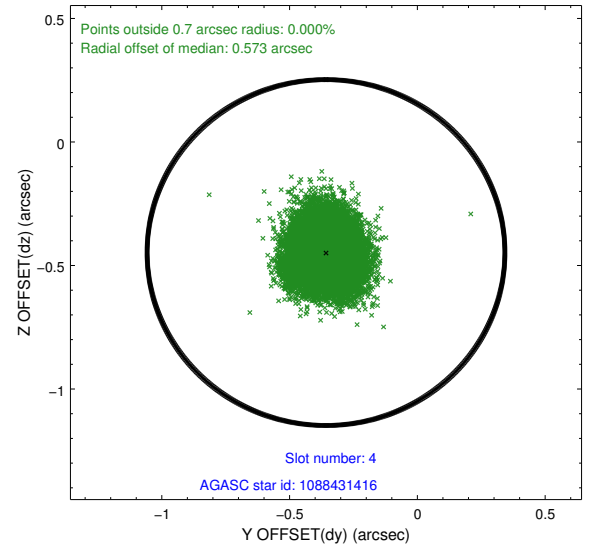
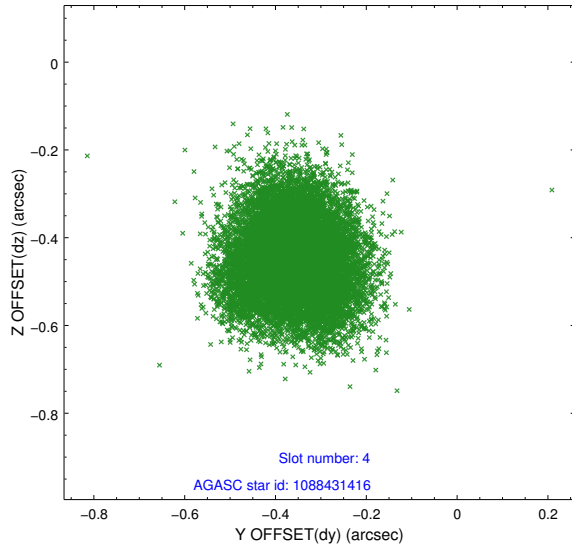
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.10	6140	0.067	-0.061	0.010	0.020	0.000000	0.000000	921.89	-844.04
1	FID		ACIS-I-5	7.09	6138	-0.377	0.015	0.012	0.023	0.000000	0.000000	-1826.70	1053.31
2	FID		ACIS-I-6	7.11	6139	0.220	0.115	0.013	0.028	0.000000	0.000000	387.32	1698.17
3	GUIDE	used	1088428576	6.76	12283	0.223	0.441	0.086	0.140	233.965323	-50.289168	-813.49	-1706.71
4	GUIDE	used	1088431416	8.85	12274	-0.358	-0.448	0.123	0.190	234.177661	-49.180389	1026.34	1868.44
5	GUIDE	used	1088434568	8.19	12279	0.280	0.370	0.094	0.158	233.466359	-50.089966	-1650.89	-640.95
6	GUIDE	used	1088422616	8.83	12276	-0.032	-0.418	0.131	0.218	233.576359	-49.181657	-304.58	2348.68
7	GUIDE	used	1088430360	8.83	12269	-0.117	0.074	0.153	0.234	235.187860	-49.858872	2374.94	-1248.77

2.4 Star Slots

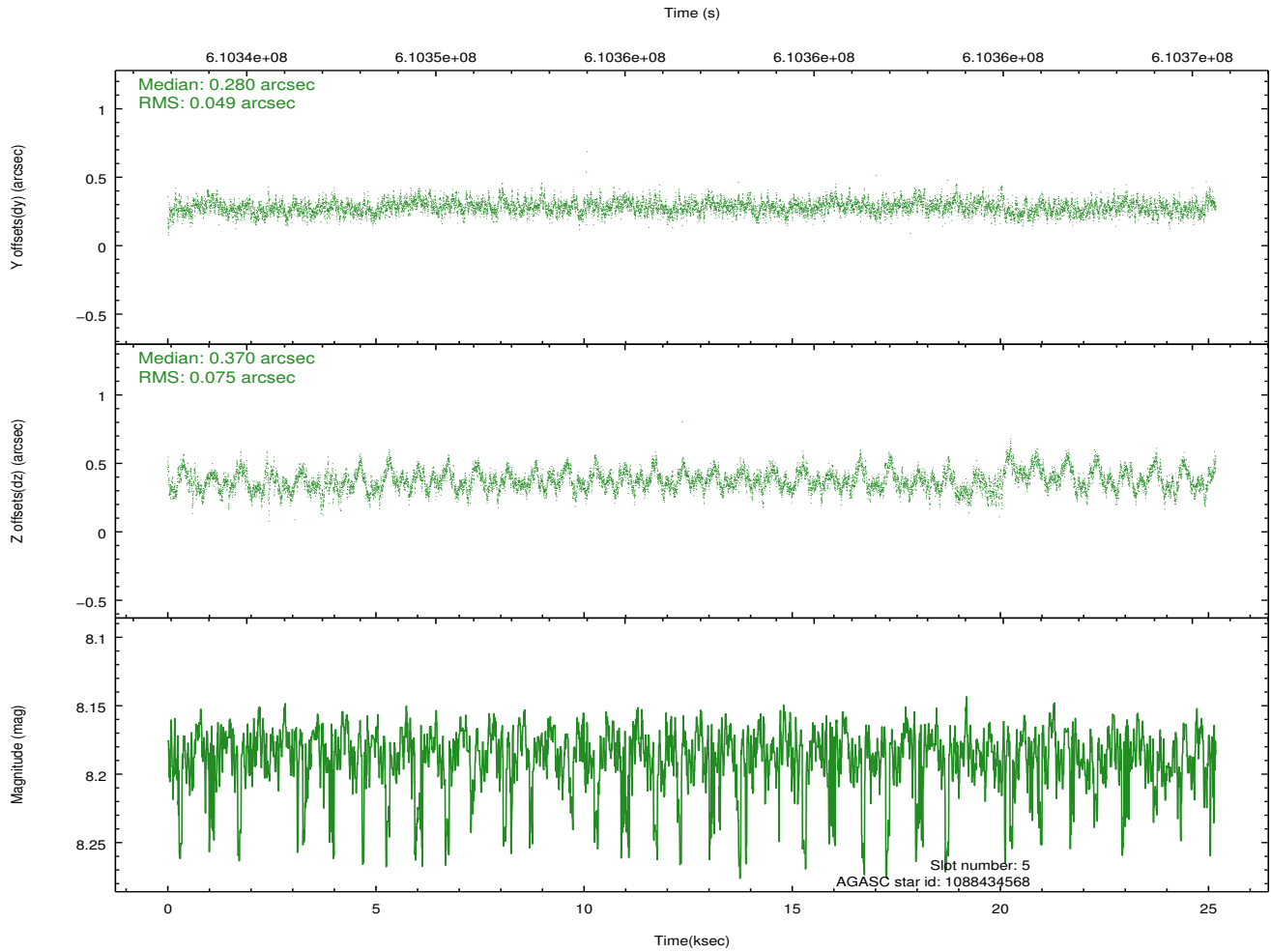
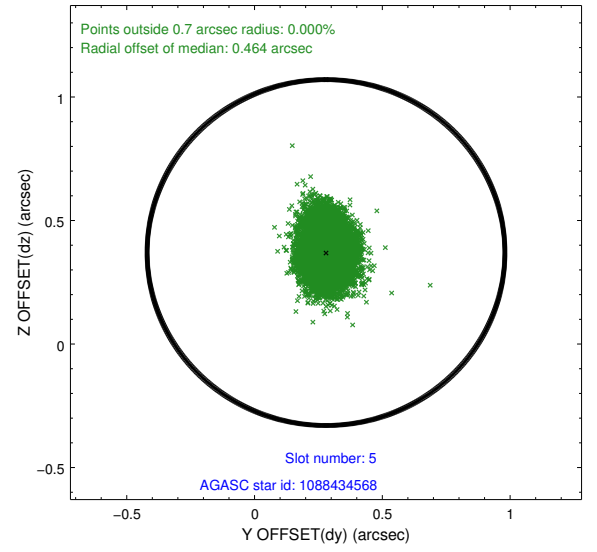
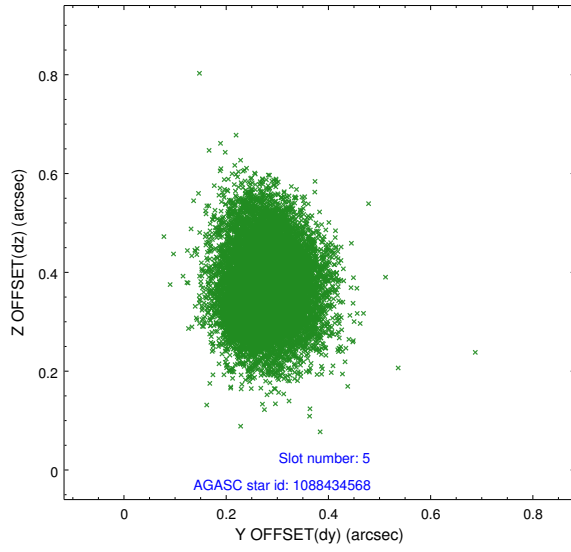
2.4.1 Slot 3



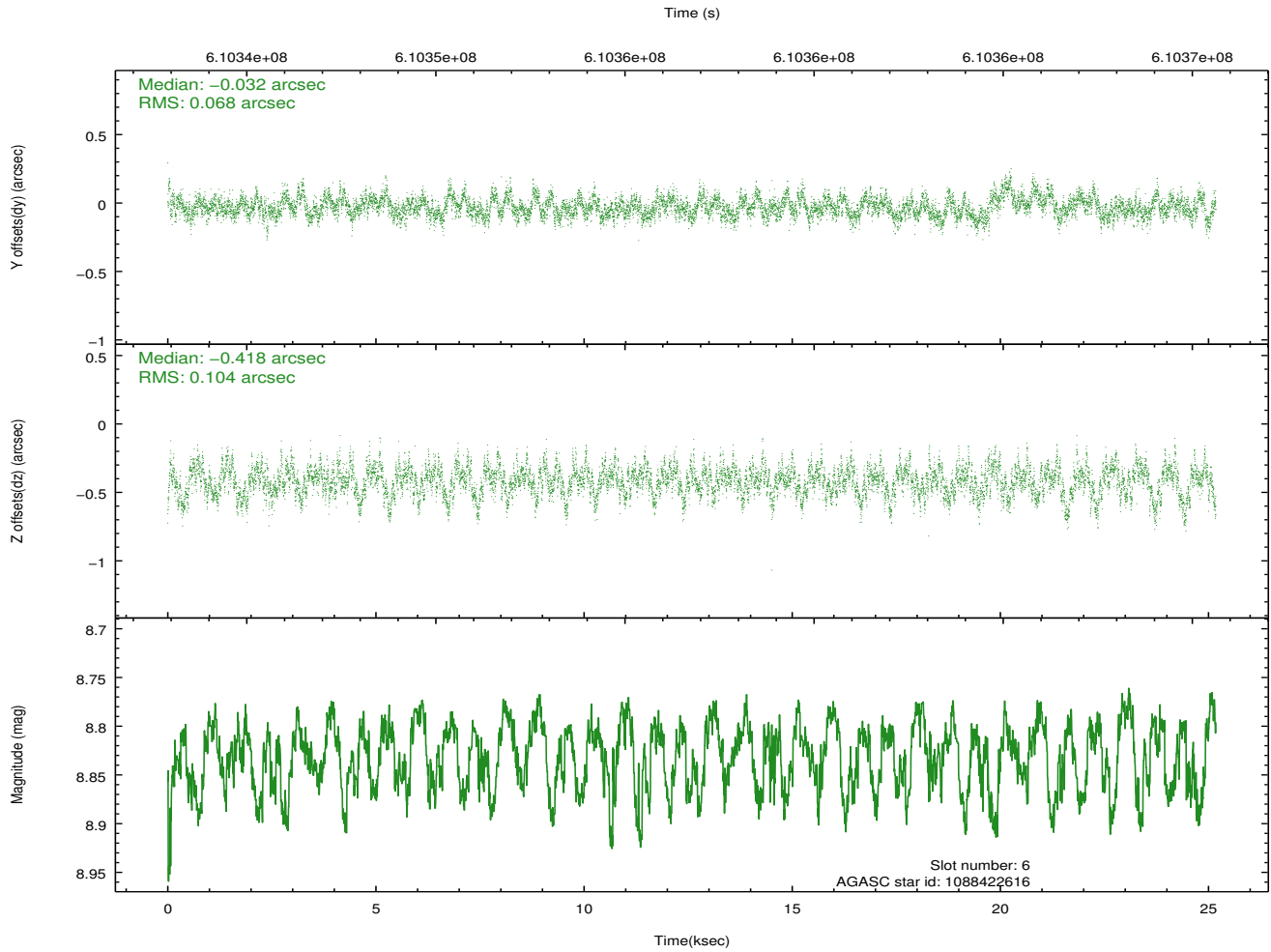
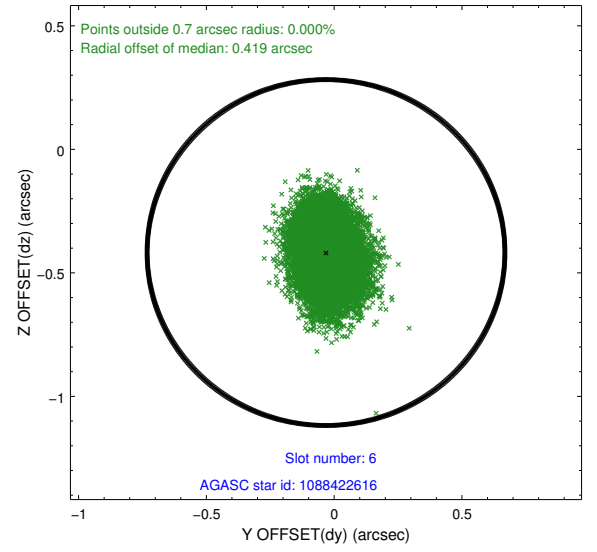
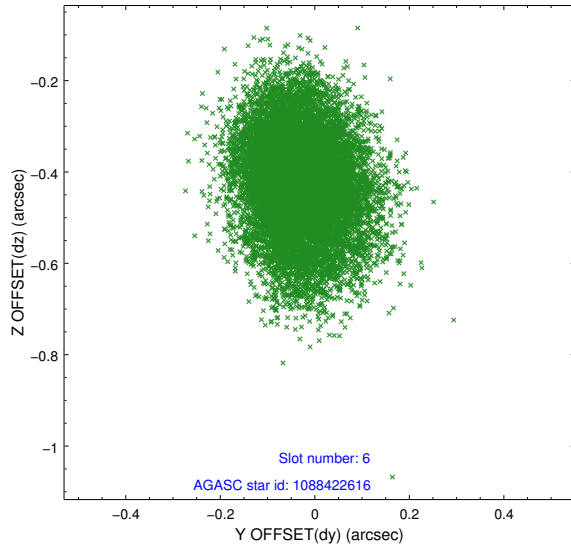
2.4.2 Slot 4



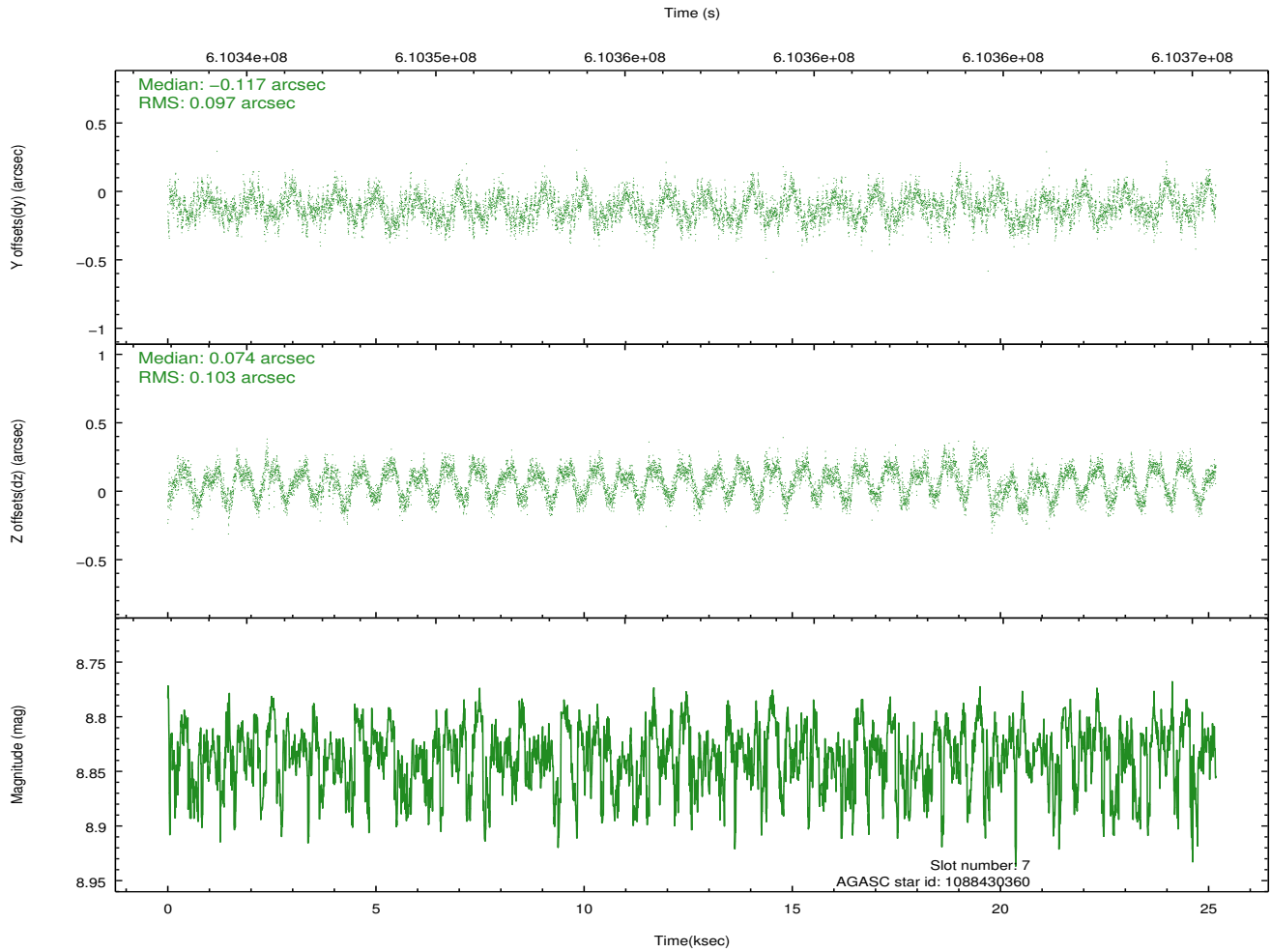
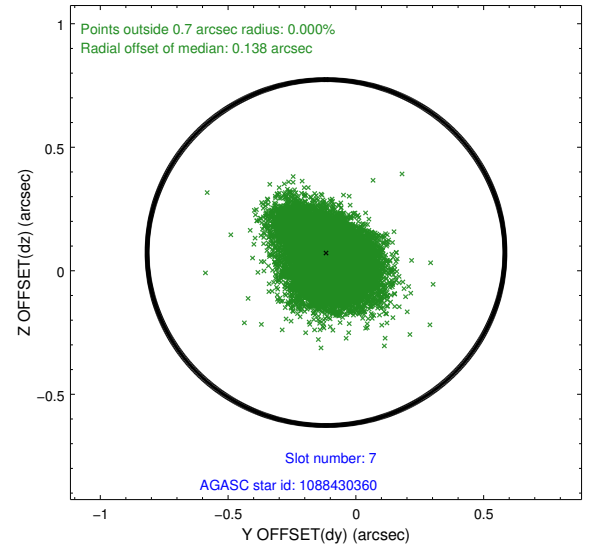
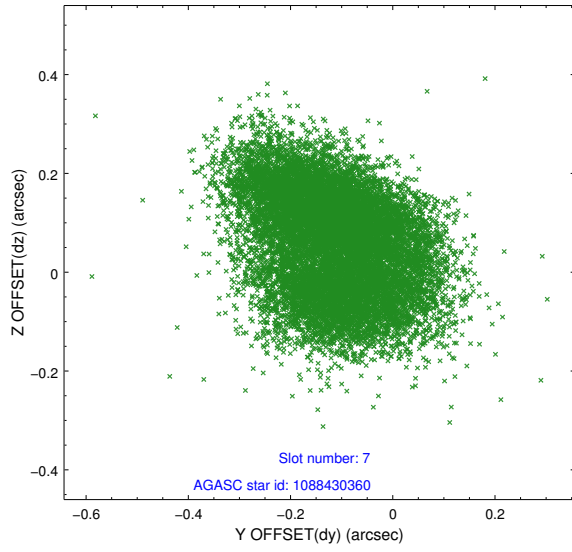
2.4.3 Slot 5



2.4.4 Slot 6

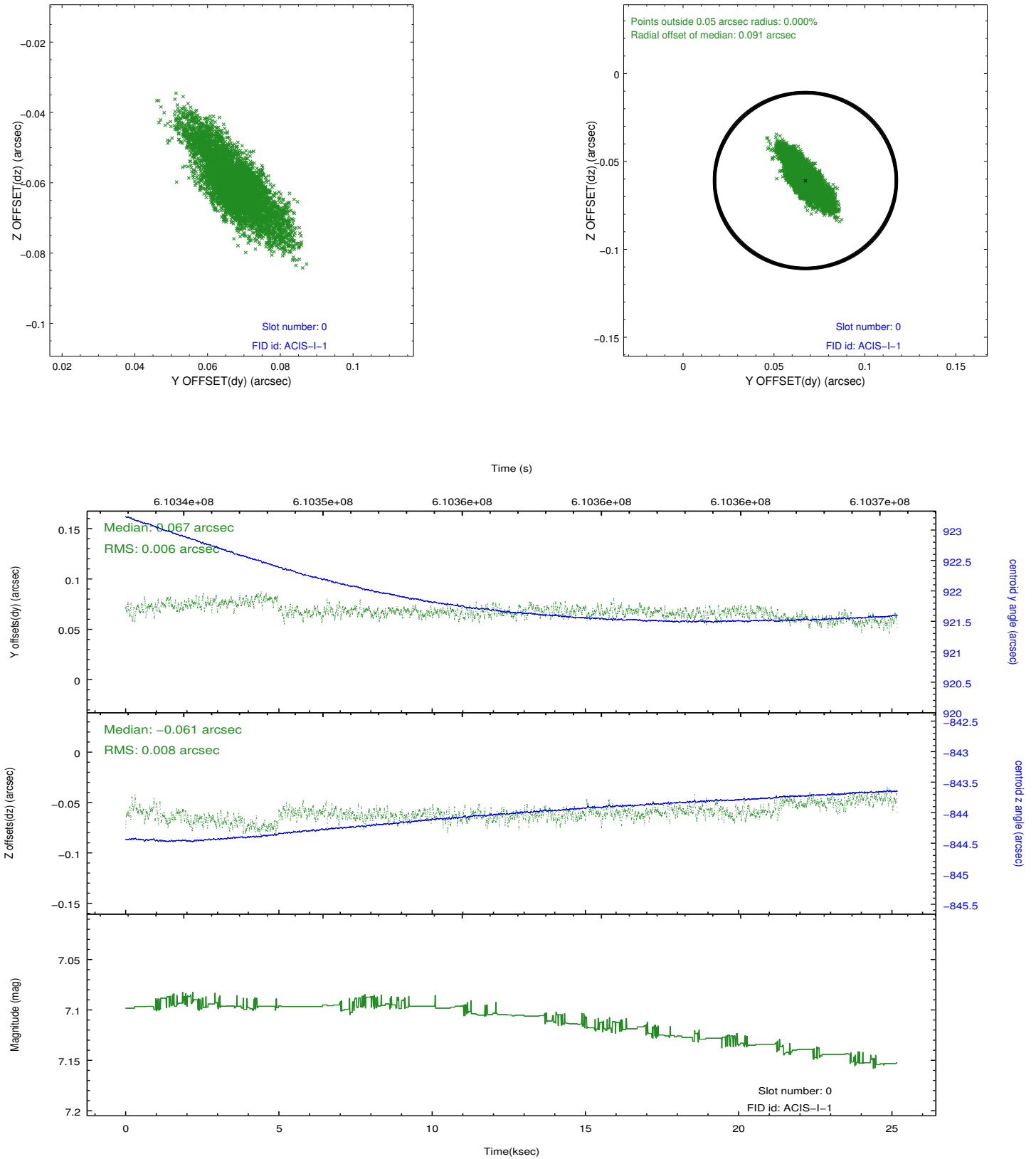


2.4.5 Slot 7

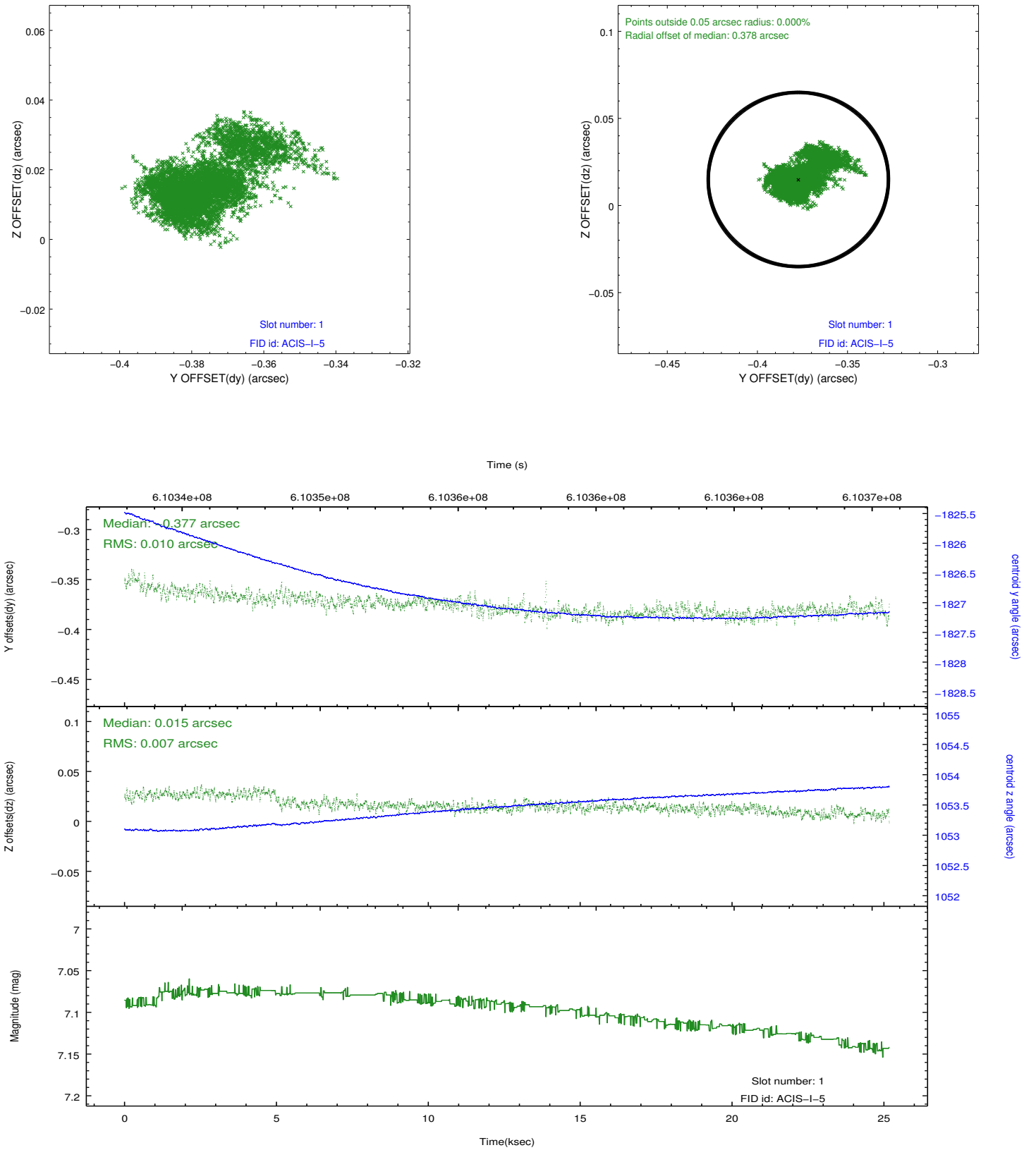


2.5 FID Slots

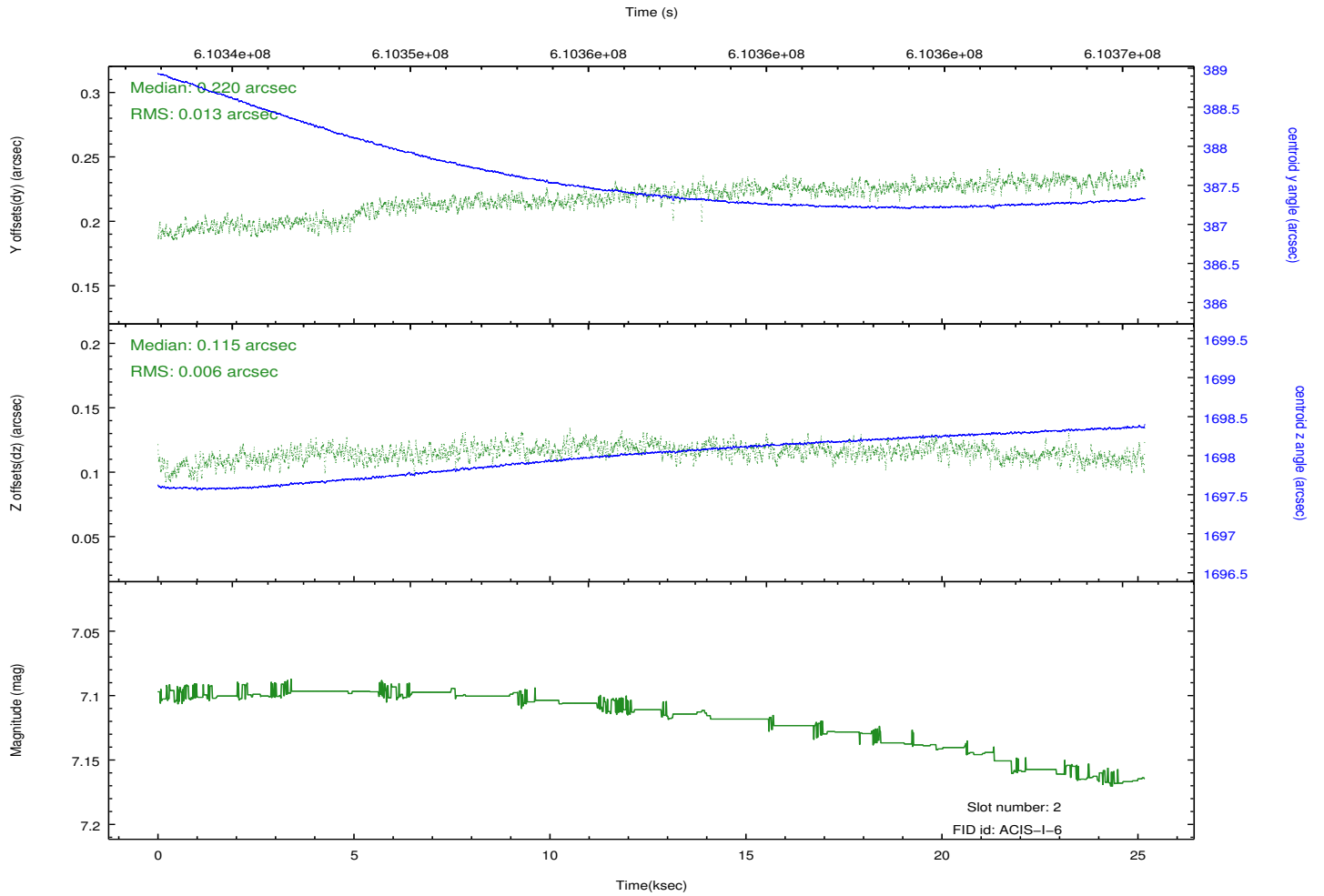
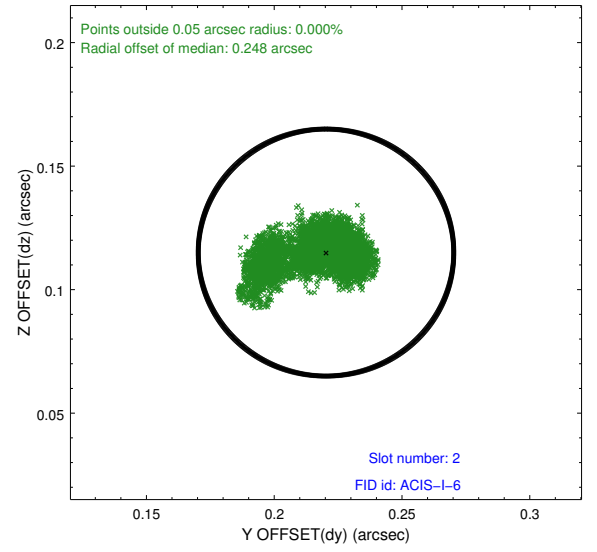
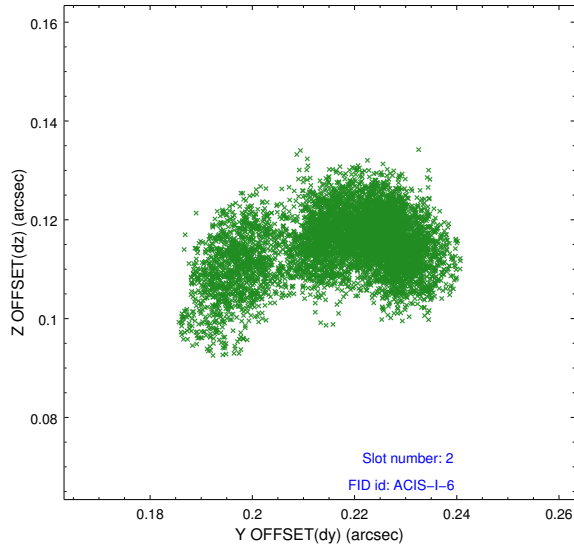
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2017.05.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.094459172845

A.2 Comments