

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 17224 - L2 Version 1
Chandra X-Ray Center

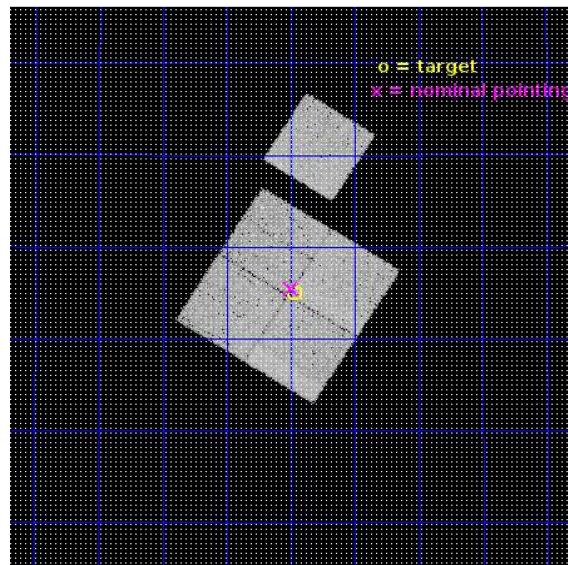
L2 Processing Date : Nov 19 2016

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1 Front

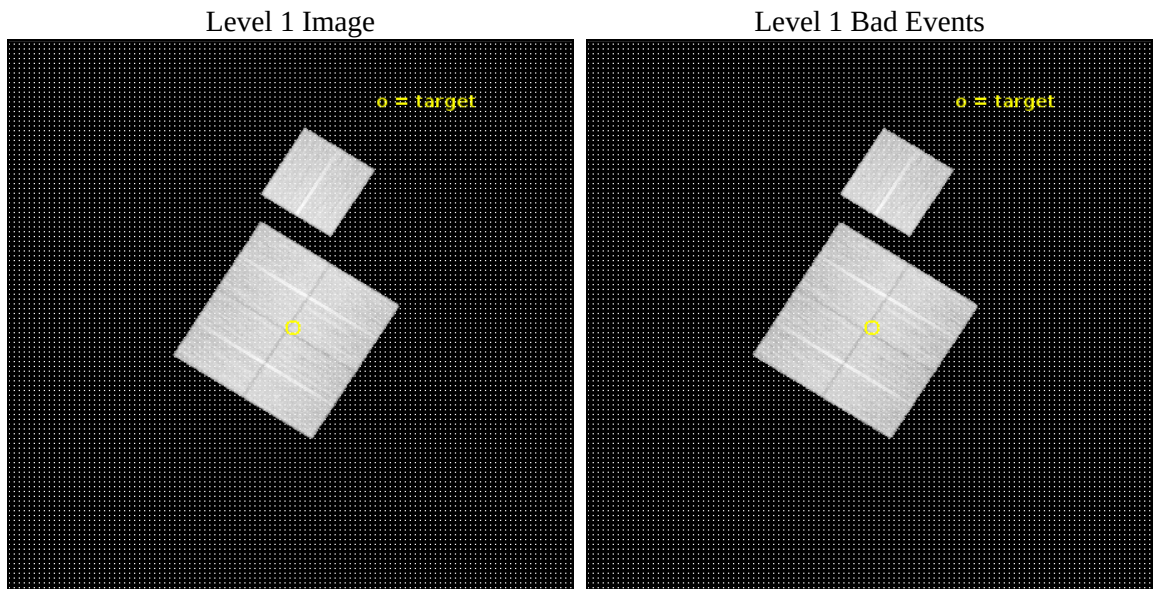
seq_num	801501	Sequence number
obs_id	17224	Observation id
title	Chandra mapping of the cosmic web converging on the virialization region of Abell 1795	Proposal title
observer	Dr Alexey Vikhlinin	Principal investigator
object	Abell 1795 outskirts	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	206.618017	Observer's specified target RA [deg]
dec_targ	26.749625	Observer's specified target Dec [deg]
ra_nom	206.62386640285	Nominal RA [deg]
dec_nom	26.757616028997	Nominal Dec [deg]
roll_nom	32.20606607173	Nominal Roll [deg]
revision	1	Processing version of data
ontime	31914.500245571	Sum of GTIs [s]
livetime	31497.513804749	Livetime [s]
ontime0	31914.500245571	Sum of GTIs [s]
ontime1	31914.500245571	Sum of GTIs [s]
ontime2	31914.500245571	Sum of GTIs [s]
ontime3	31914.500245571	Sum of GTIs [s]
ontime6	31911.359285235	Sum of GTIs [s]
l2events	106306	Number of level 2 events



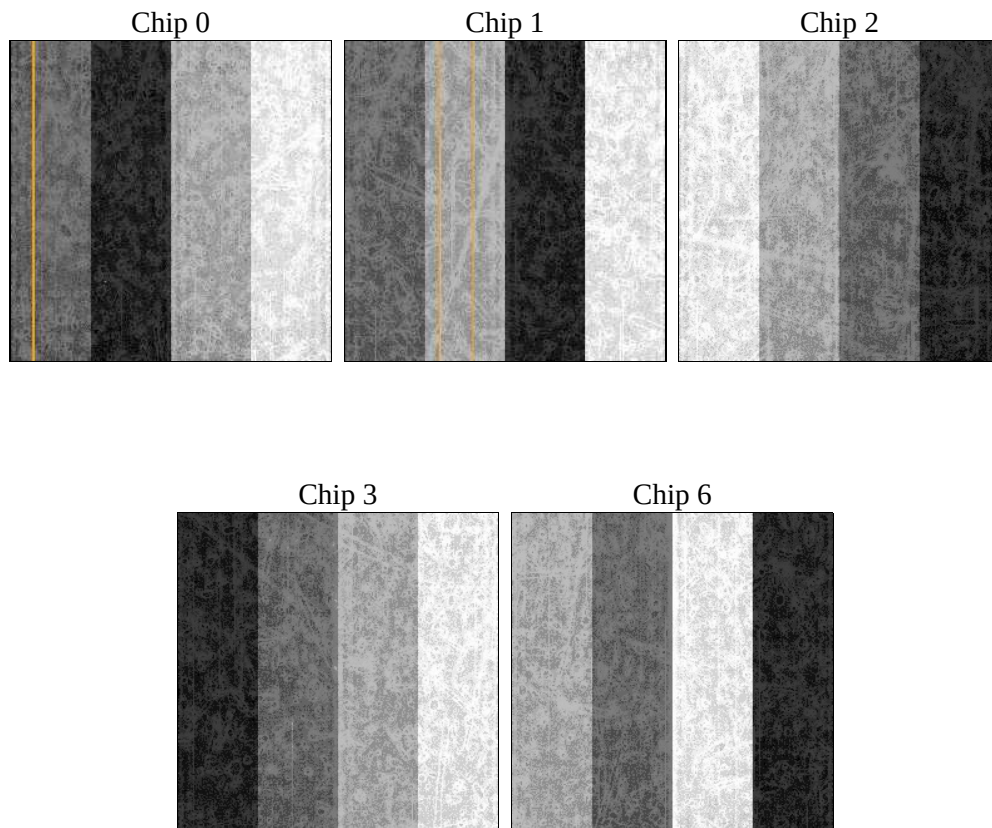
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	31841.318000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	31914.500245571	Sum of GTIs [s]
caldsver	4.7.2	 	ontime0	31914.500245571	Sum of GTIs [s]
date	2016-11-19T04:43:39	Date and time of file creation	ontime1	31914.500245571	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	31914.500245571	Sum of GTIs [s]
			ontime3	31914.500245571	Sum of GTIs [s]
			ontime6	31911.359285235	Sum of GTIs [s]
			l1events	1089781	Number of level 1 events

2.1.4 Events

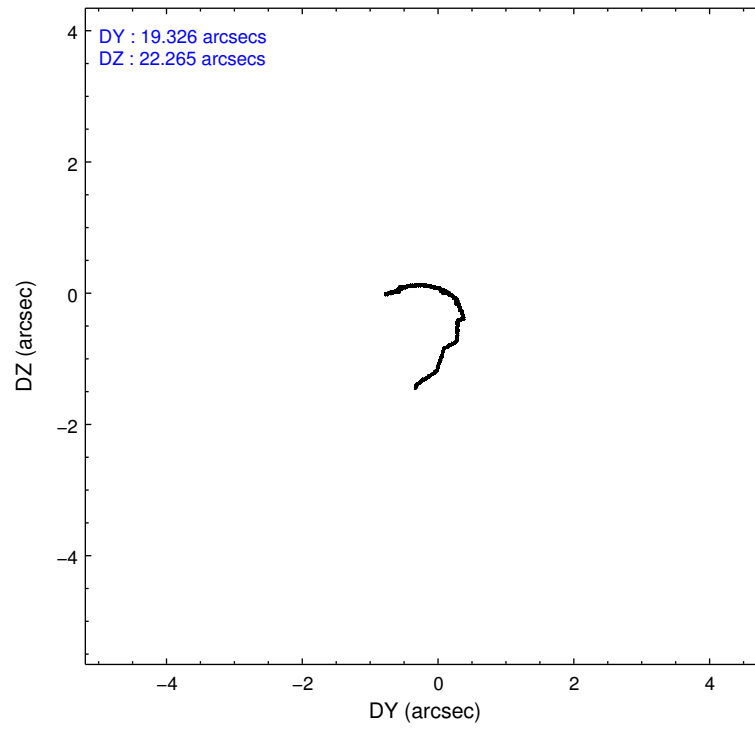
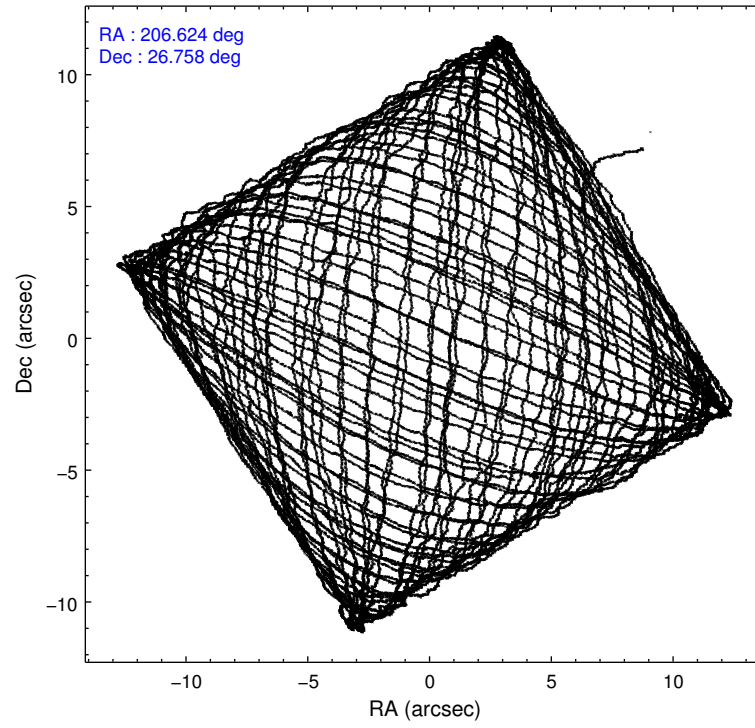
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	208384	205833	223751	222828	228985
rejected events	183144	178270	199146	198214	203759
rejected %	87%	86%	89%	88%	88%

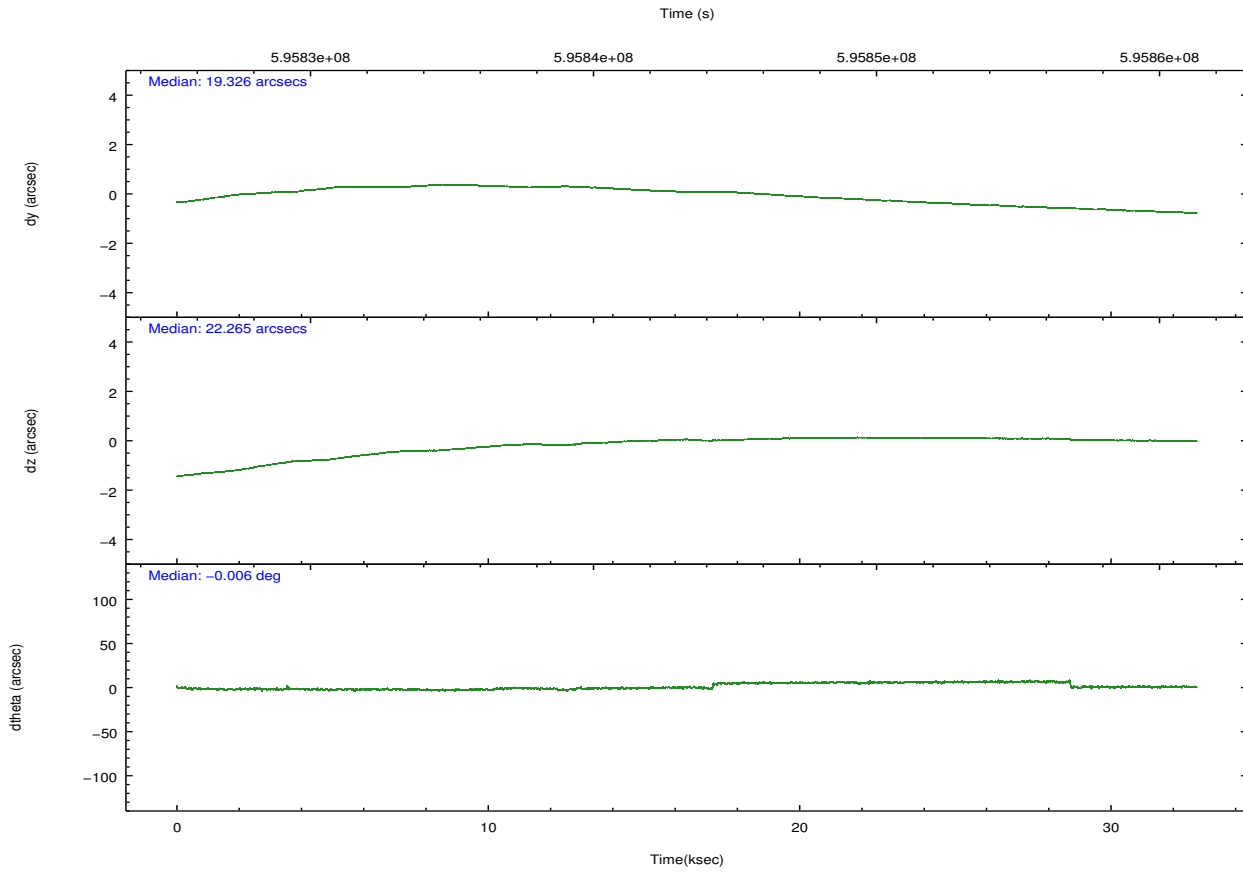
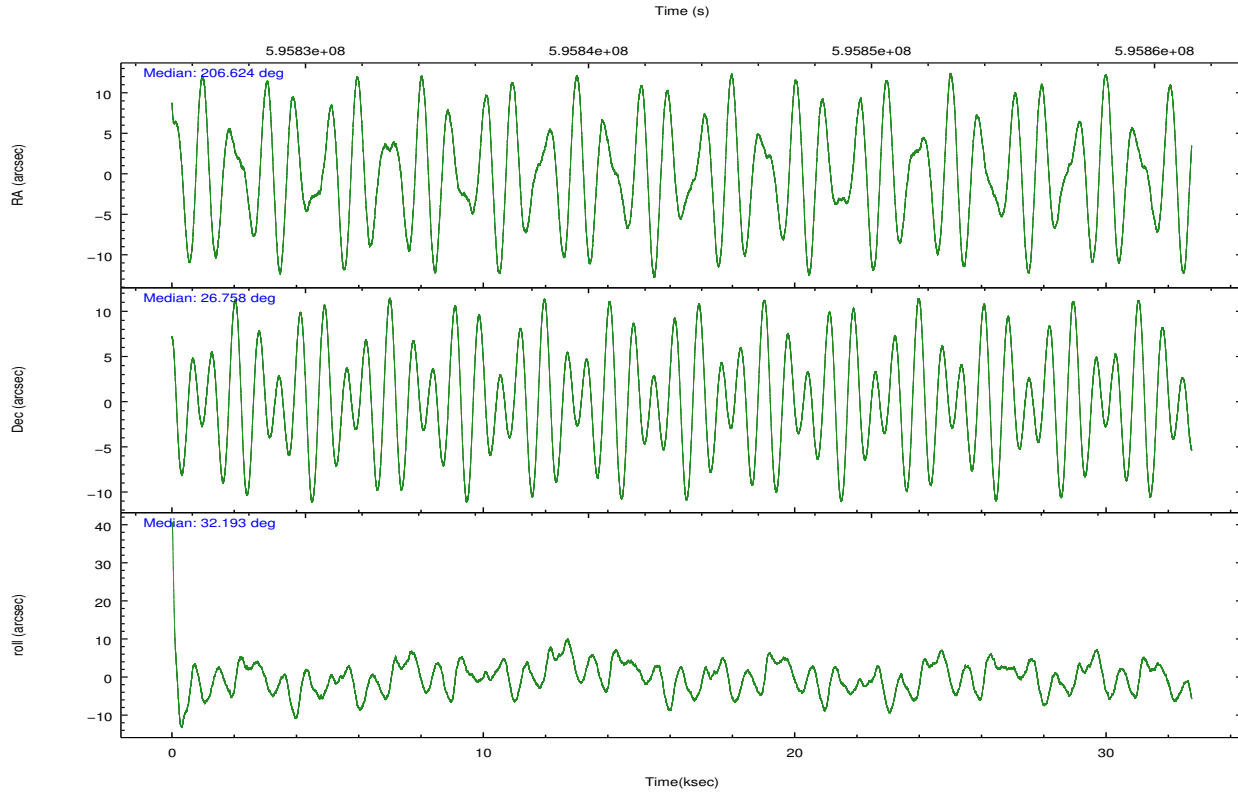
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	8762	9316	8843	9207	8555
	4%	4%	3%	4%	3%
grade 1 events	106	102	127	133	104
	0%	0%	0%	0%	0%
grade 2 events	6627	6956	6264	5410	5769
	3%	3%	2%	2%	2%
grade 3 events	2489	2664	2423	2532	2542
	1%	1%	1%	1%	1%
grade 4 events	2370	2620	2442	2543	2530
	1%	1%	1%	1%	1%
grade 5 events	9679	10228	8877	10680	10589
	4%	4%	3%	4%	4%
grade 6 events	4993	6012	4637	4922	5830
	2%	2%	2%	2%	2%
grade 7 events	173358	167935	190138	187401	193066
	83%	81%	84%	84%	84%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	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	206.609561	206.6238664028459	CCD I2 on	Y	Y
[deg] Pointing Dec	26.733164	26.75761602899666	CCD I3 on	Y	Y
[deg] Pointing Roll	32.003810	32.20606607173027	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	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	595827837.184000	595826536.1444	CCD S5 on	N	N
Observation start date	2016-11-18T03:42:49	2016-11-18T03:22:16	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	595859678.184000	595859910.14632	On-chip summing requested	N	N
Observation end date	2016-11-18T12:33:30	2016-11-18T12:38:30	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



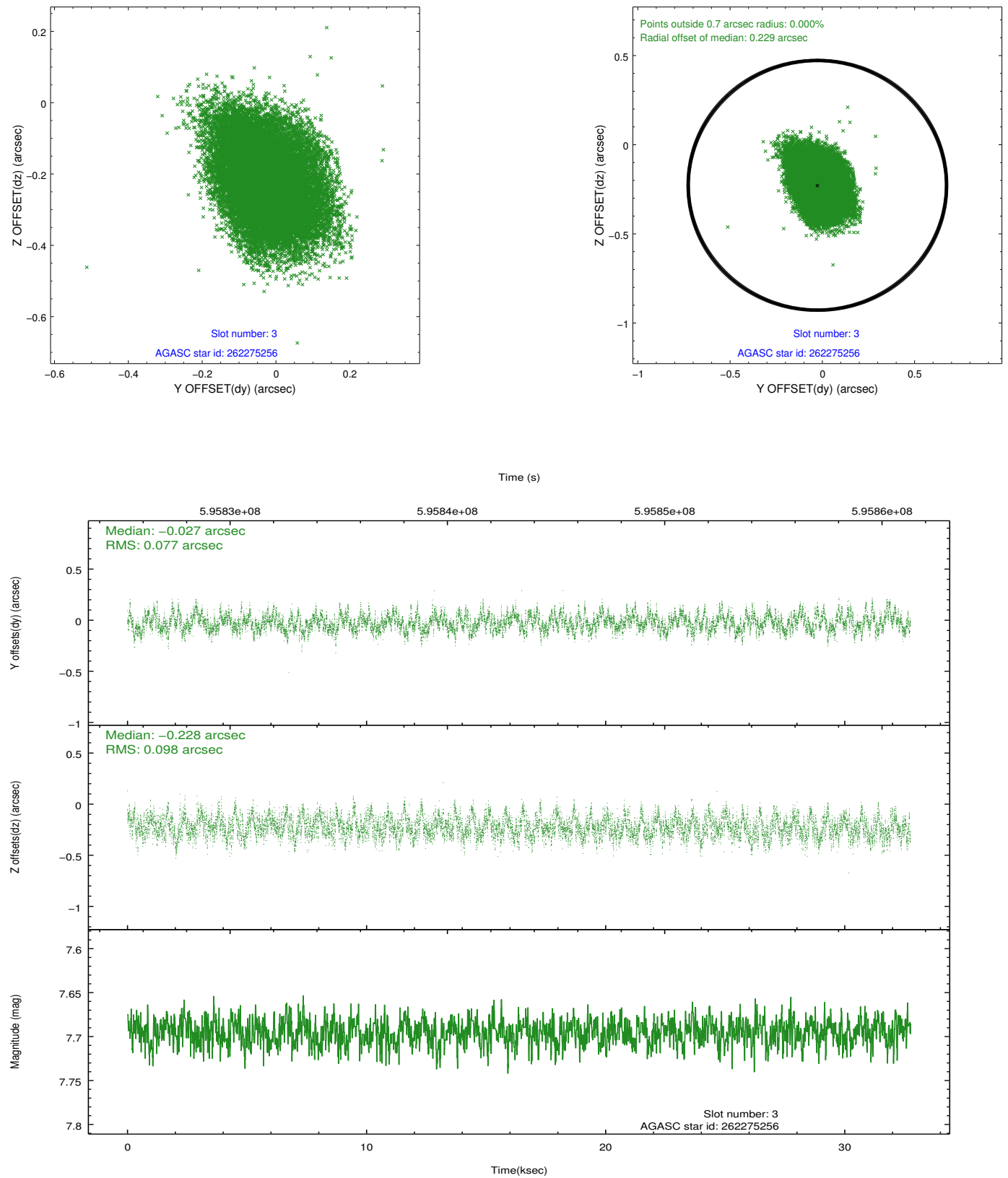


Slot Statistics

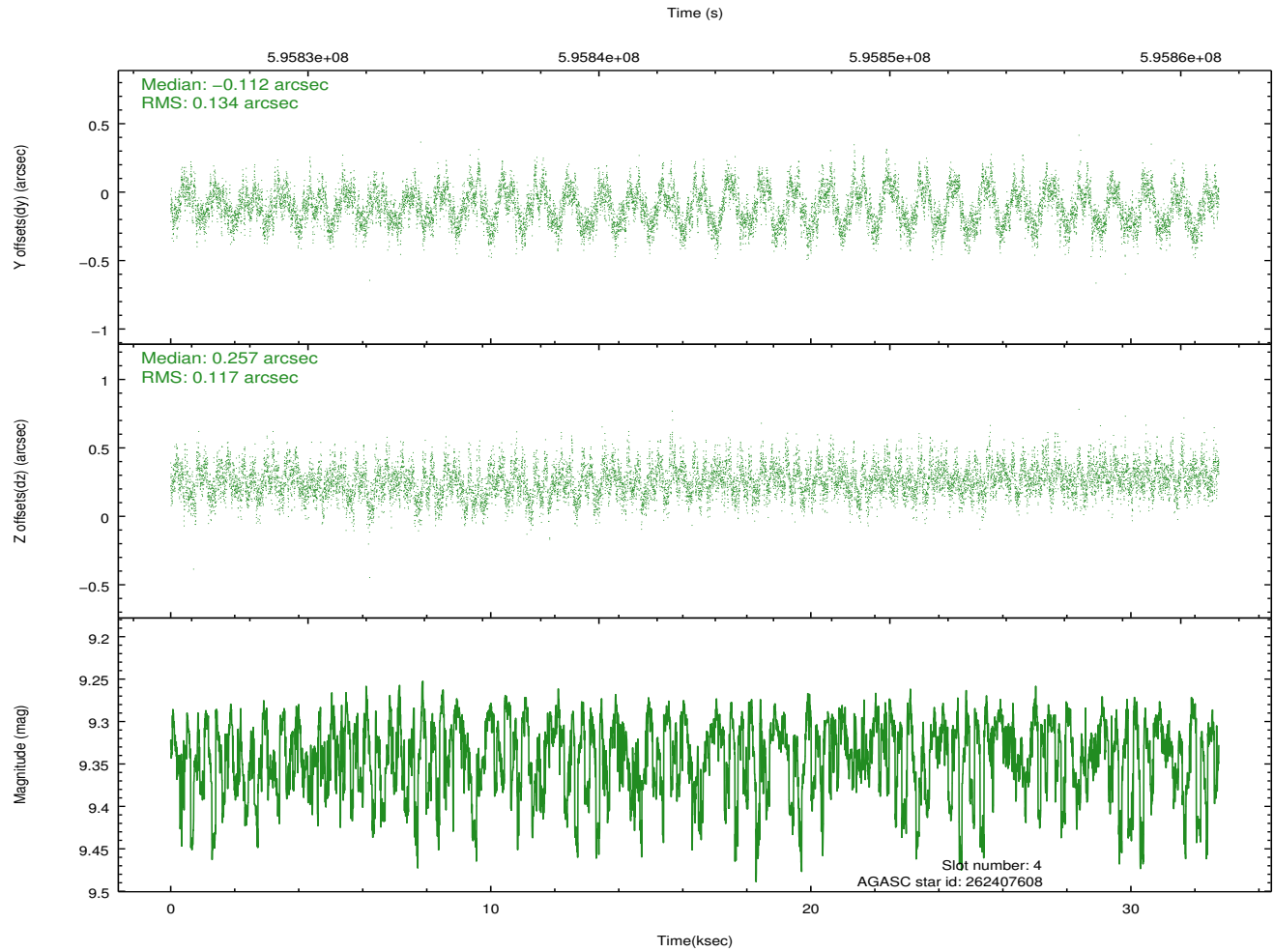
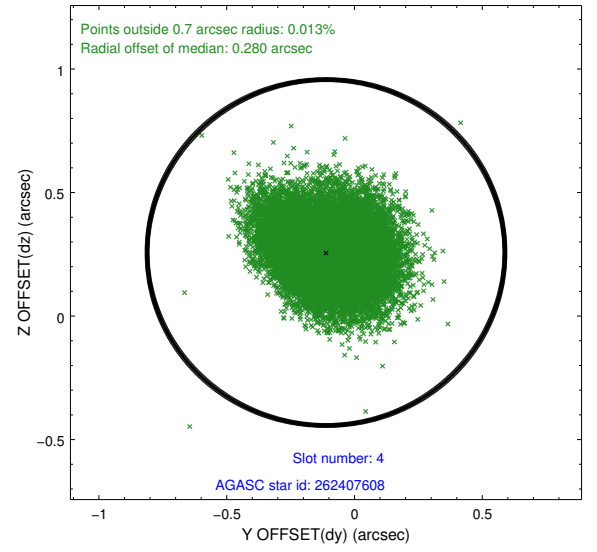
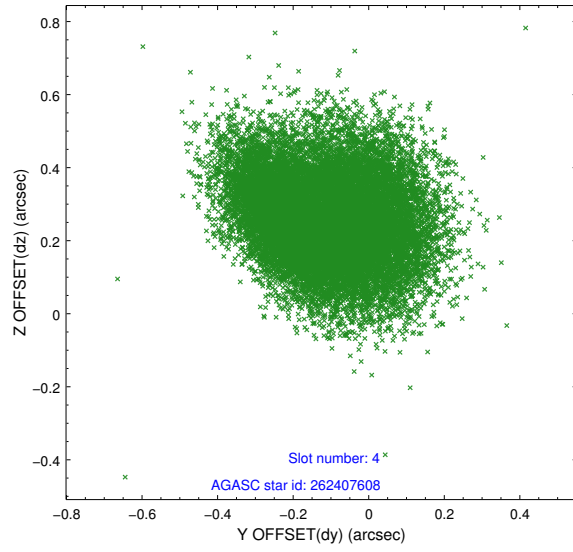
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.04	7988	-0.062	-0.081	0.064	0.082	0.000000	0.000000	920.09	-845.85
1	FID		ACIS-I-4	6.99	7987	0.380	0.114	0.053	0.065	0.000000	0.000000	2140.50	1054.17
2	FID		ACIS-I-5	7.03	7987	-0.412	0.040	0.027	0.038	0.000000	0.000000	-1828.31	1051.79
3	GUIDE	used	262275256	7.69	15972	-0.027	-0.228	0.134	0.214	206.467522	27.226414	555.68	1746.97
4	GUIDE	used	262407608	9.34	15954	-0.112	0.257	0.191	0.300	207.378401	26.435507	1538.89	-2215.34
5	GUIDE	used	262408096	9.31	15953	0.010	0.259	0.183	0.294	207.011678	26.515421	684.66	-1348.68
6	GUIDE	used	262408936	9.60	15958	0.056	0.071	0.218	0.352	207.154731	26.726554	1476.84	-946.01
7	GUIDE	used	262409552	8.14	15969	0.084	-0.356	0.160	0.242	206.584269	27.192805	808.31	1445.80

2.4 Star Slots

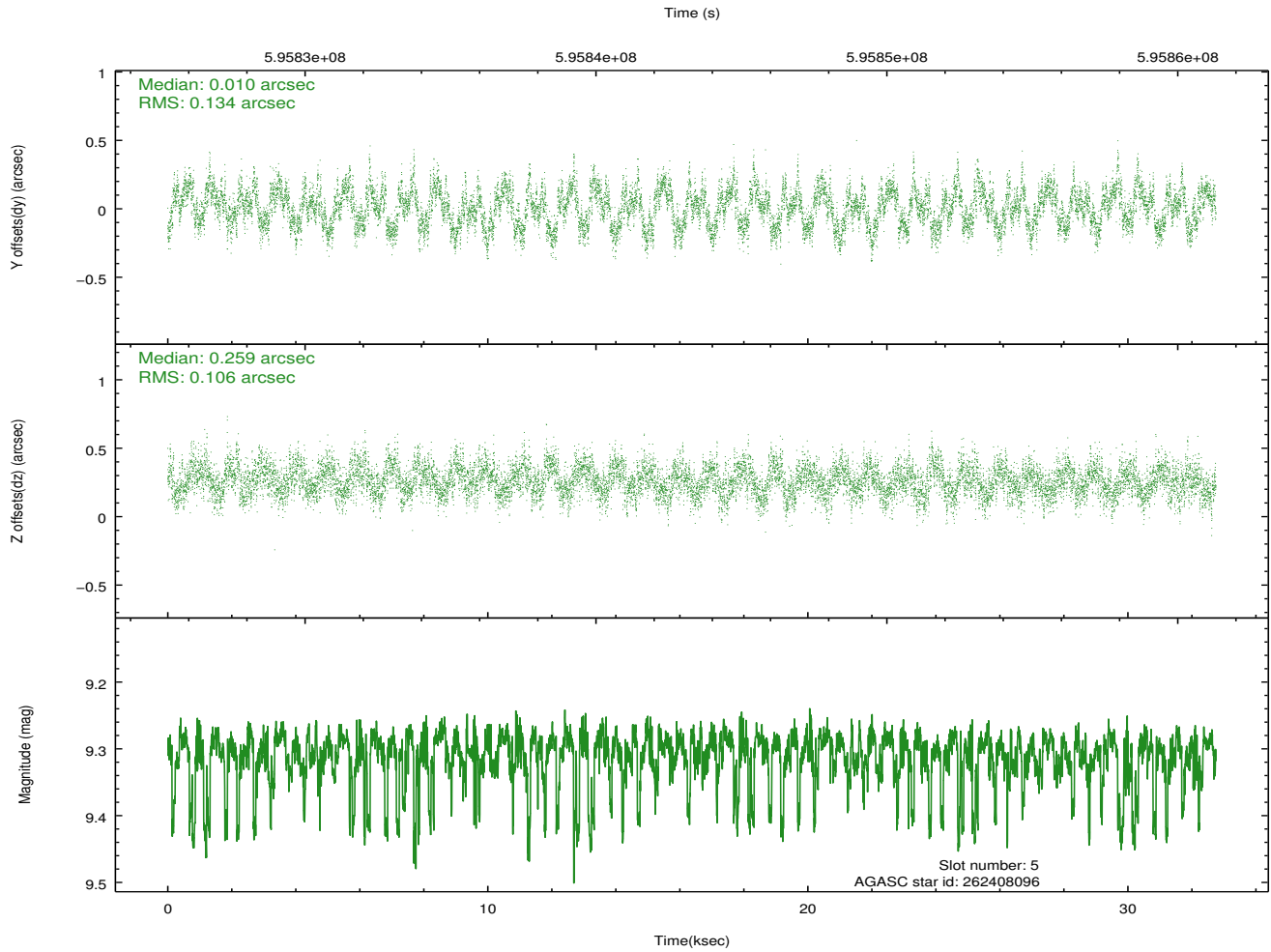
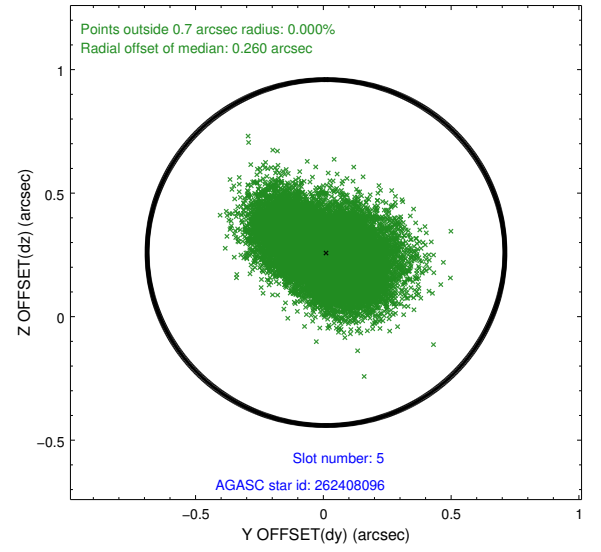
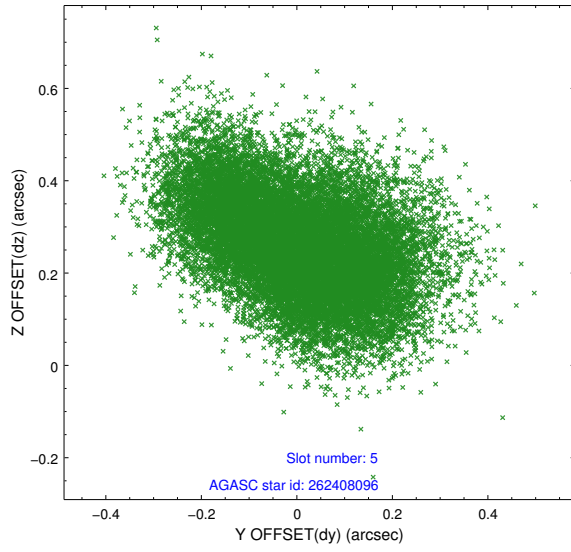
2.4.1 Slot 3



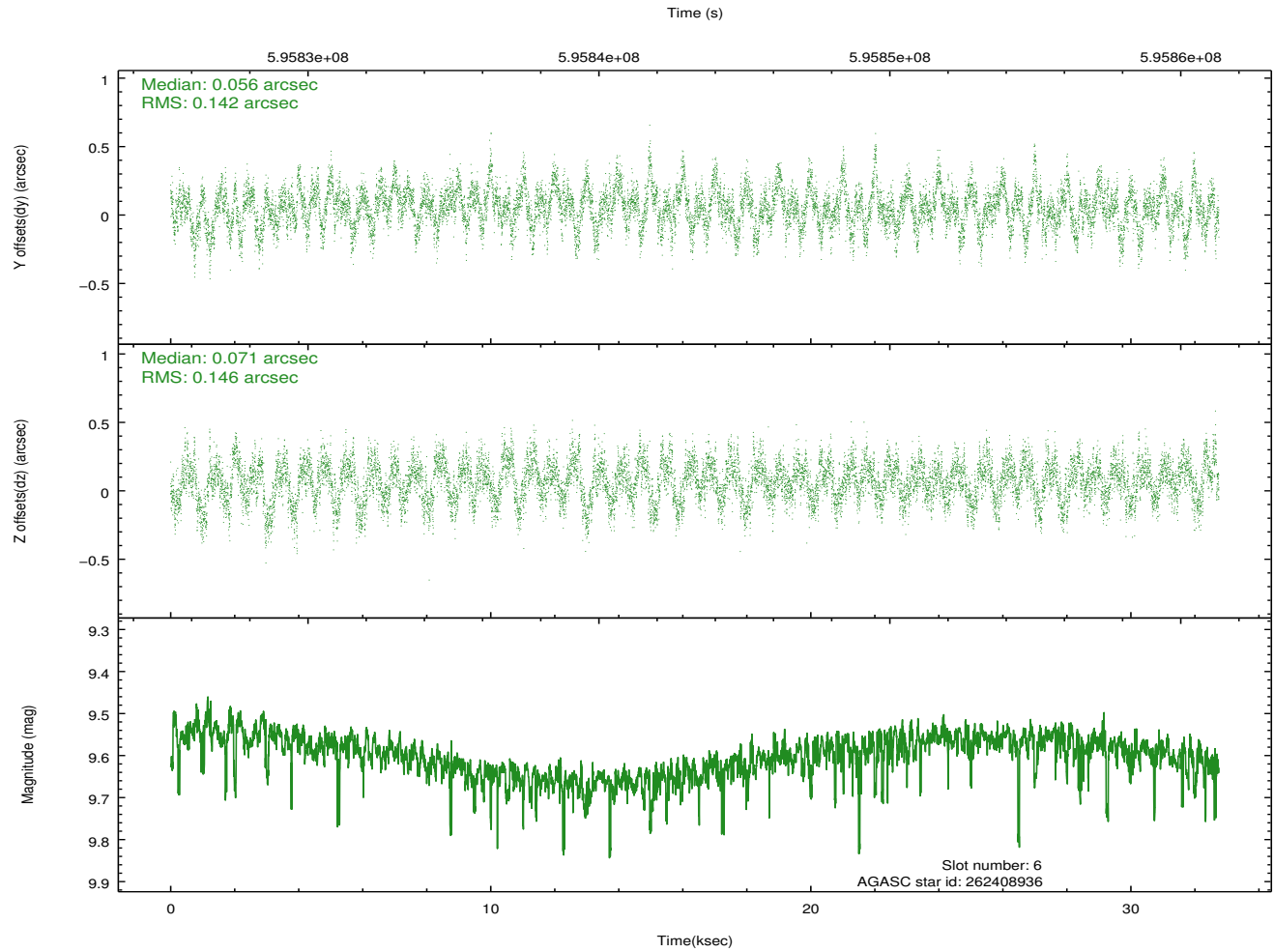
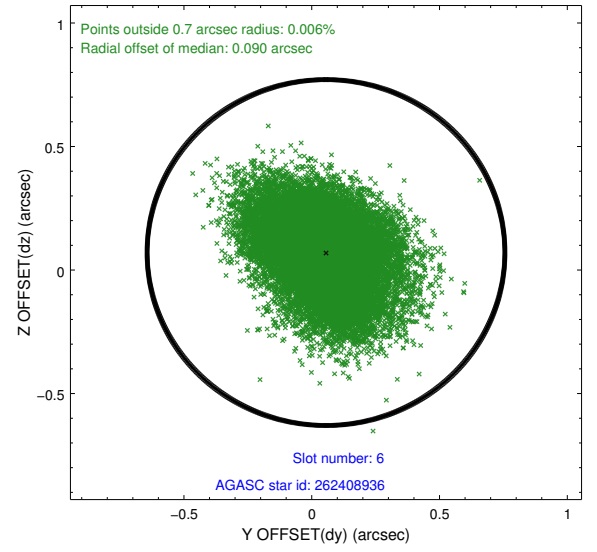
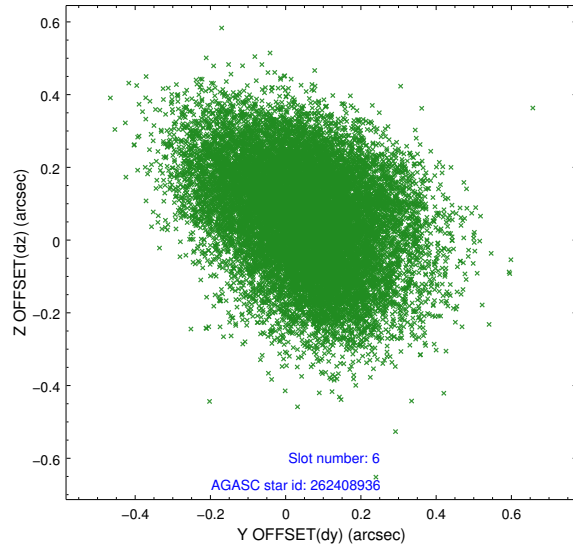
2.4.2 Slot 4



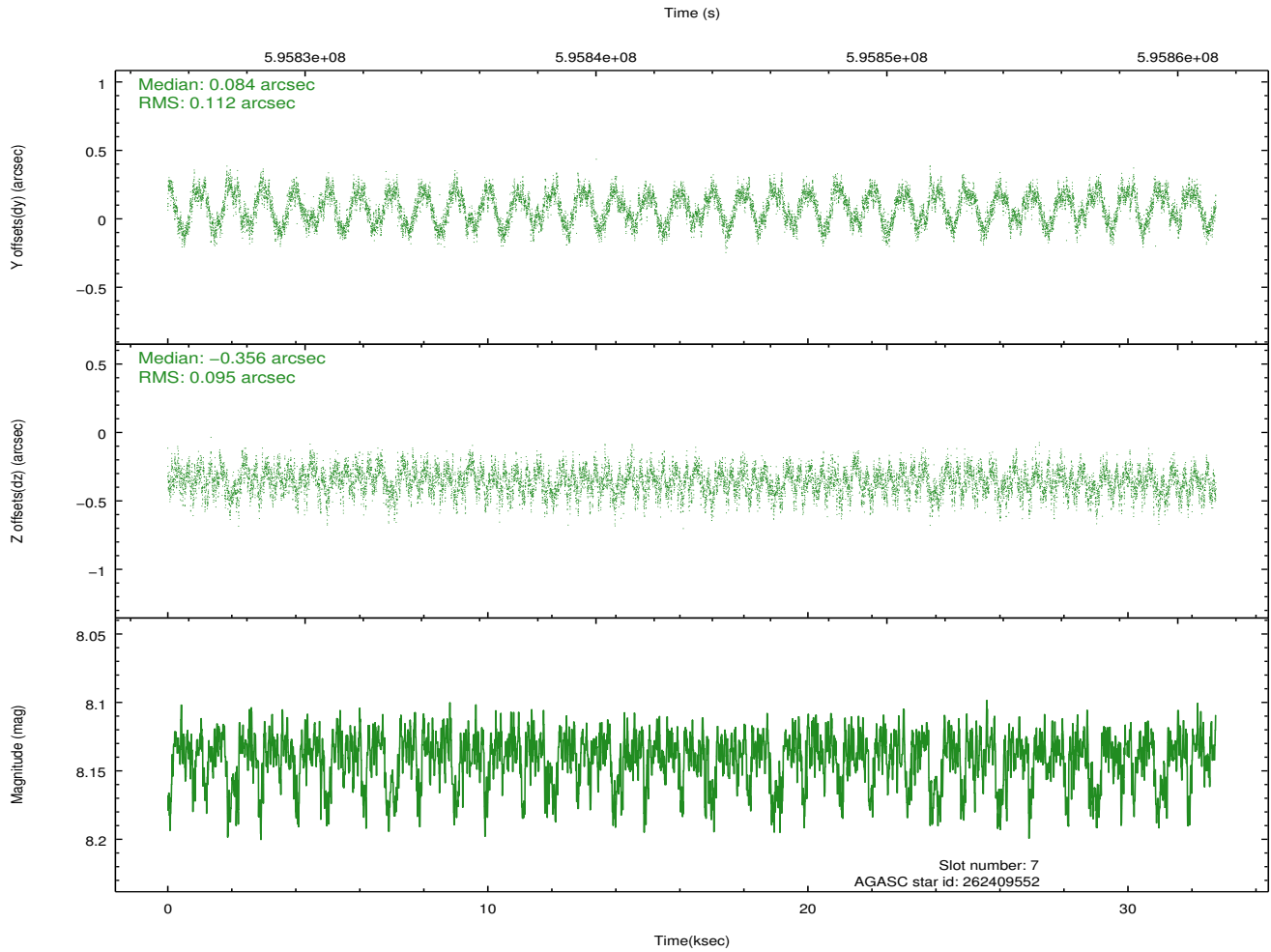
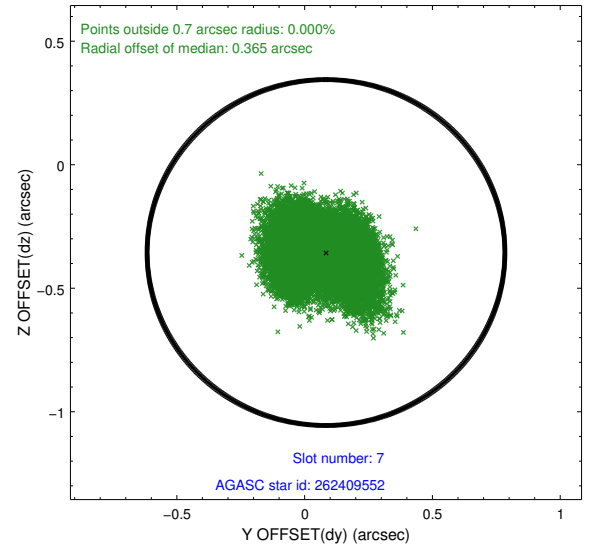
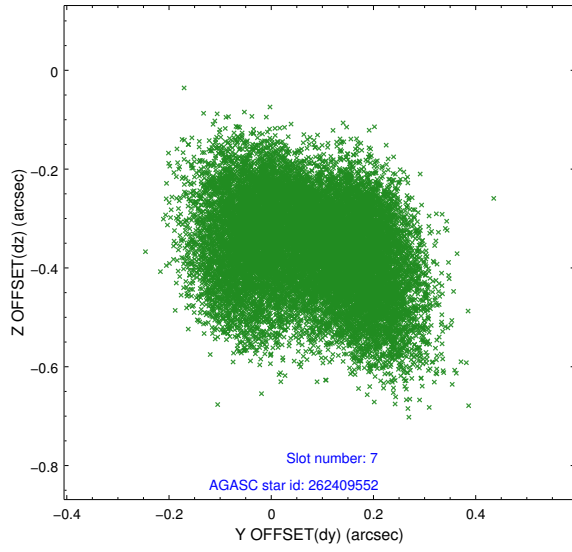
2.4.3 Slot 5



2.4.4 Slot 6

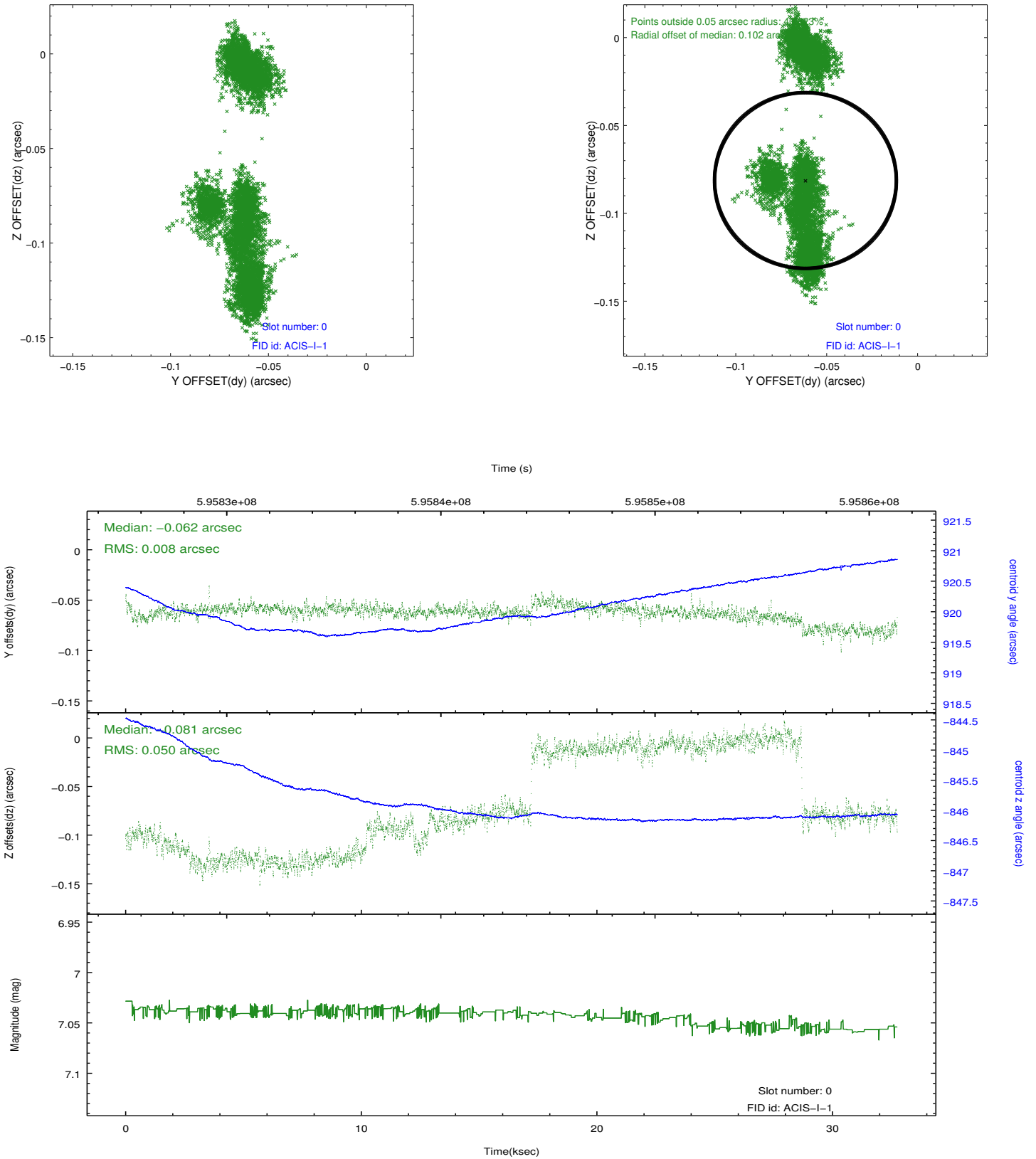


2.4.5 Slot 7

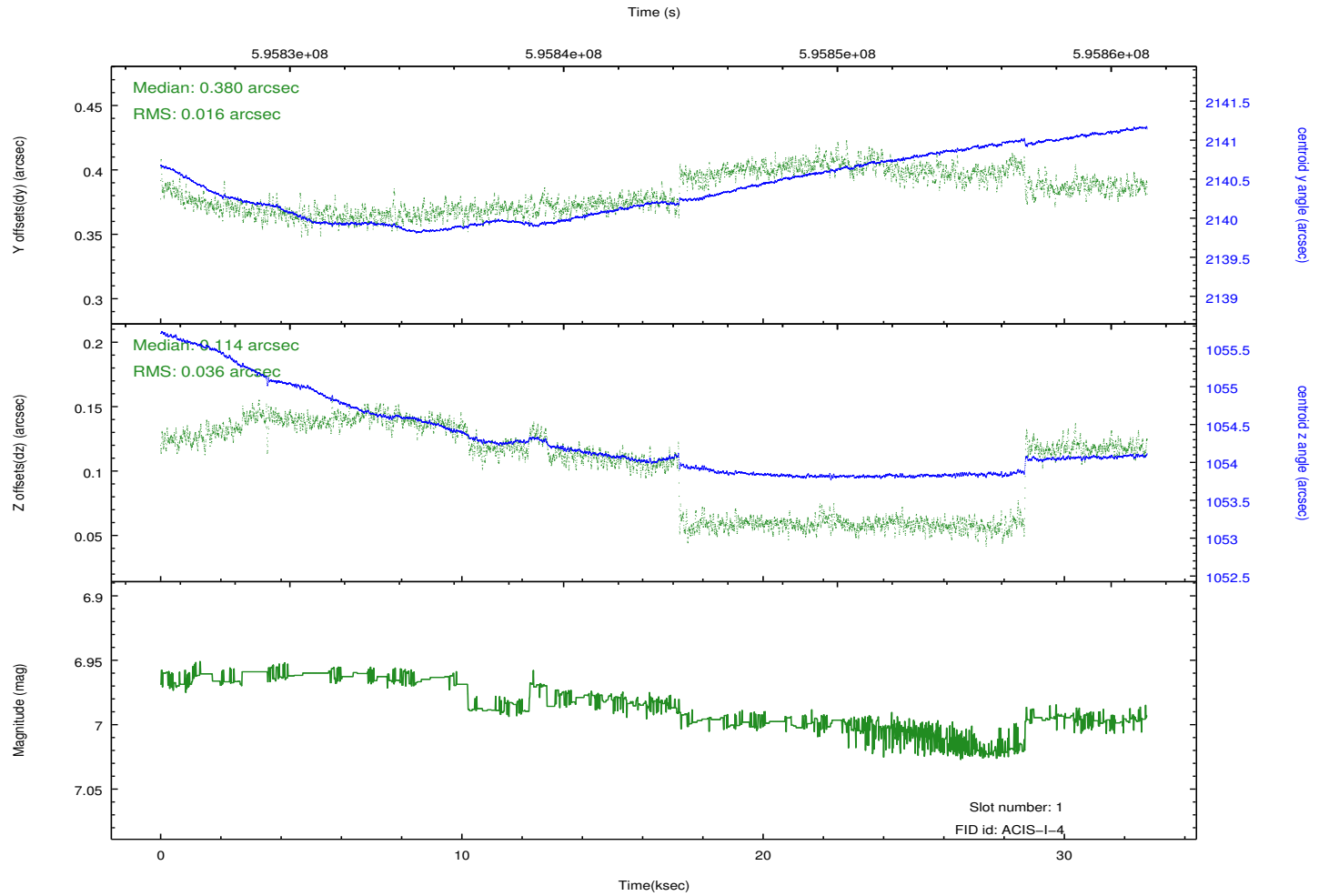
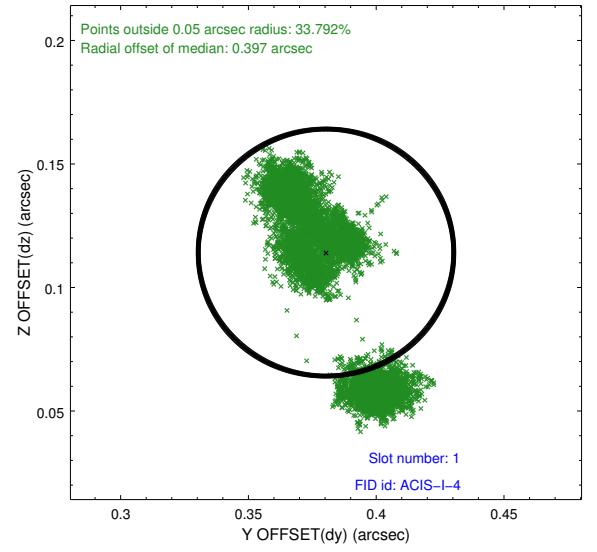
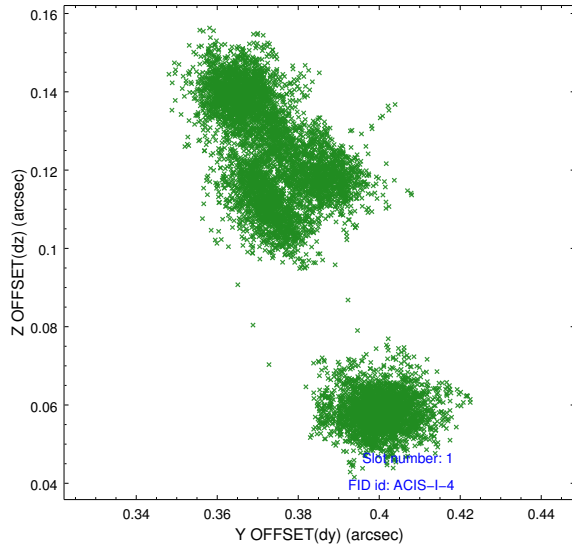


2.5 FID Slots

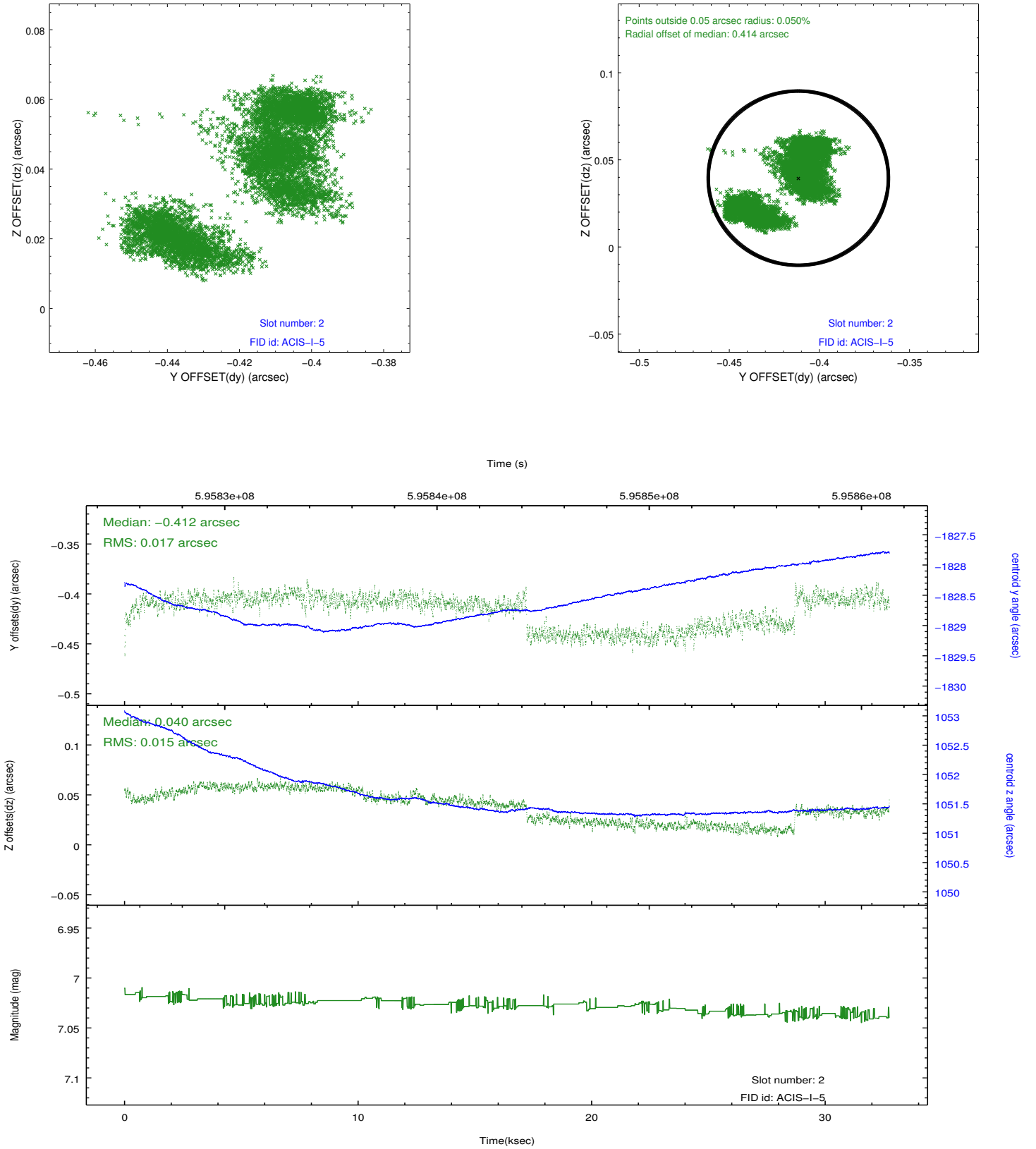
2.5.1 Slot 0



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)	2016.11.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	31.914500245571

A.2 Comments