

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18853 - L2 Version 1
Chandra X-Ray Center

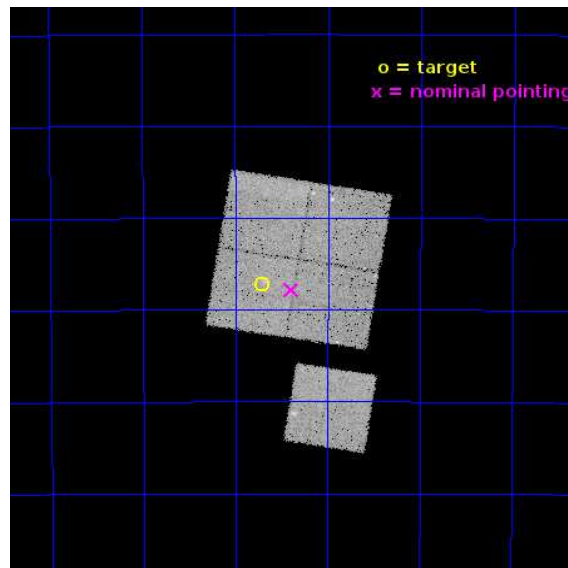
L2 Processing Date : May 23 2016

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1 Front

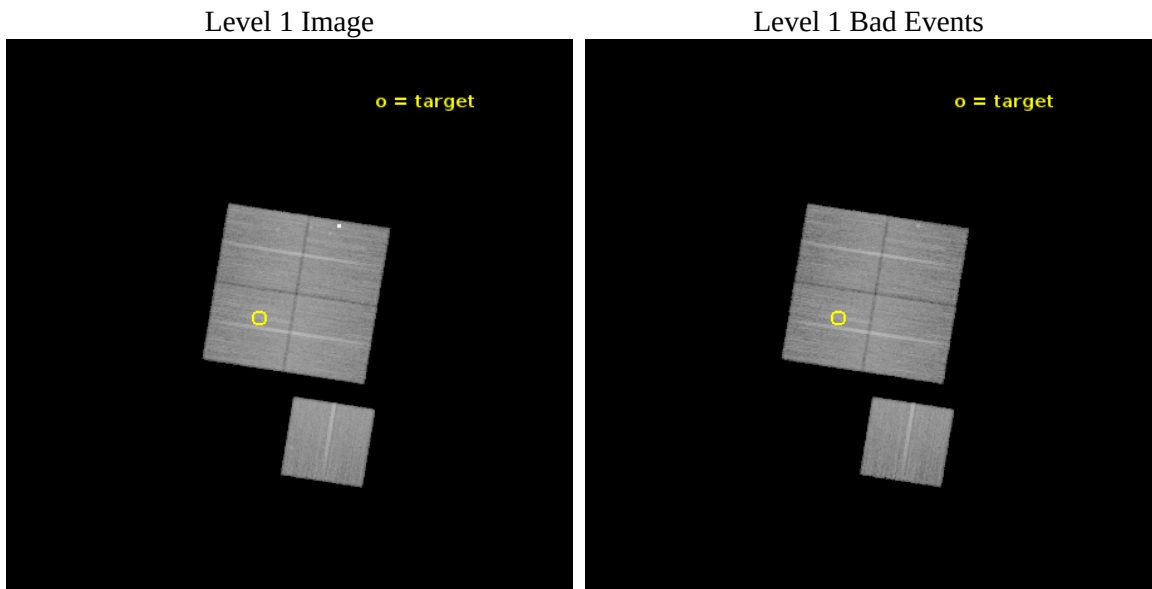
seq_num	801491	Sequence number
obs_id	18853	Observation id
title	A MASS-LIMITED SURVEY OF GALAXY CLUSTERS AT $1.2 < z < 1.7$: PROBING THE PHYSICS OF THE ICM DURING ITS ASSEMBLY	Proposal title
observer	Michael McDonald	Principal investigator
object	SPT-CLJ0459-4947	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	74.927083	Observer's specified target RA [deg]
dec_targ	-49.787194	Observer's specified target Dec [deg]
ra_nom	74.848379666625	Nominal RA [deg]
dec_nom	-49.796919714507	Nominal Dec [deg]
roll_nom	189.14857685789	Nominal Roll [deg]
revision	1	Processing version of data
ontime	33269.20025599	Sum of GTIs [s]
livetime	32834.513662217	Livetime [s]
ontime0	33262.918245316	Sum of GTIs [s]
ontime1	33266.059265852	Sum of GTIs [s]
ontime2	33262.918295503	Sum of GTIs [s]
ontime3	33269.20025599	Sum of GTIs [s]
ontime6	33266.05928576	Sum of GTIs [s]
l2events	96643	Number of level 2 events



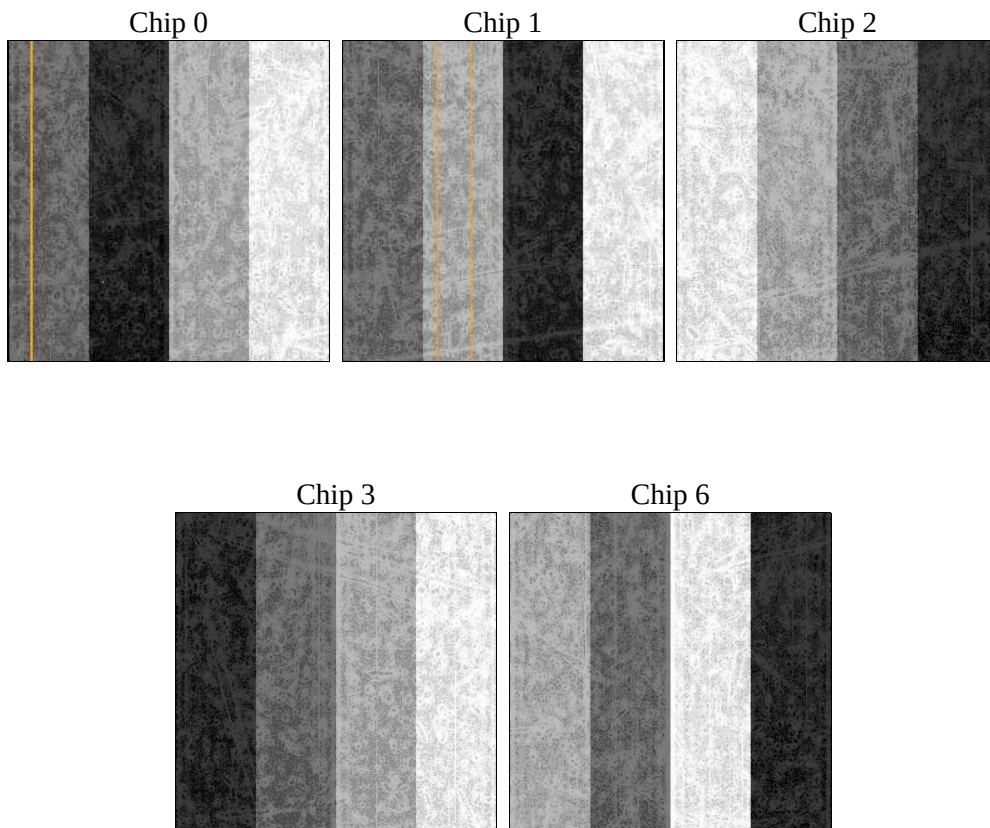
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	33197.235000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	33269.20025599	Sum of GTIs [s]
caldsver	4.7.1	 	ontime0	33262.918245316	Sum of GTIs [s]
date	2016-05-23T04:30:34	Date and time of file creation	ontime1	33266.059265852	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	33262.918295503	Sum of GTIs [s]
			ontime3	33269.20025599	Sum of GTIs [s]
			ontime6	33266.05928576	Sum of GTIs [s]
			l1events	1011689	Number of level 1 events

2.1.4 Events

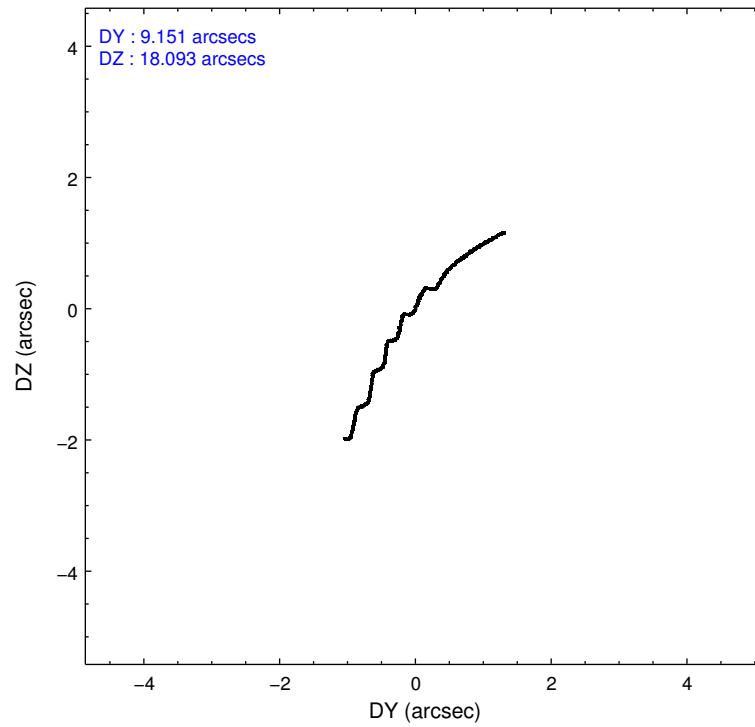
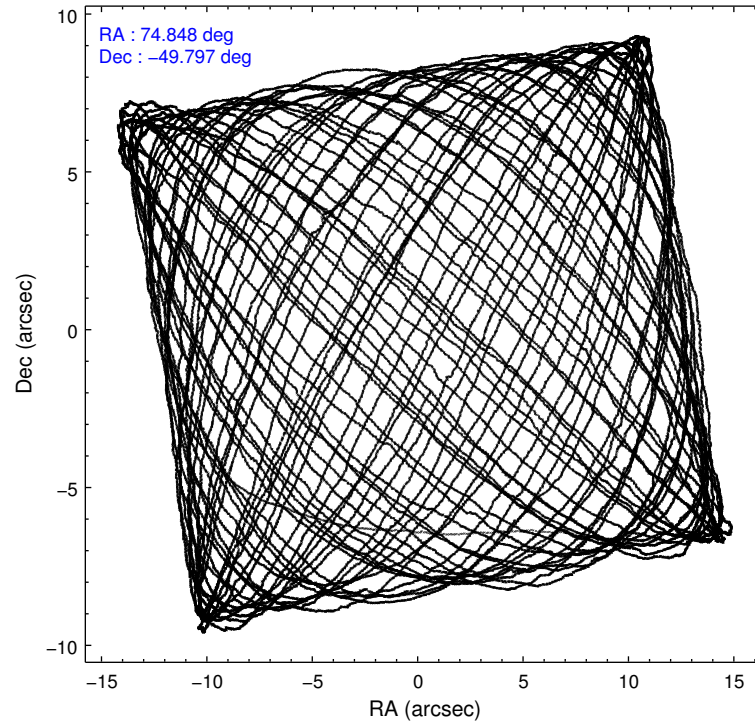
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	205194	190276	210110	203151	202958
rejected events	165519	164879	188151	181615	179753
rejected %	80%	86%	89%	89%	88%

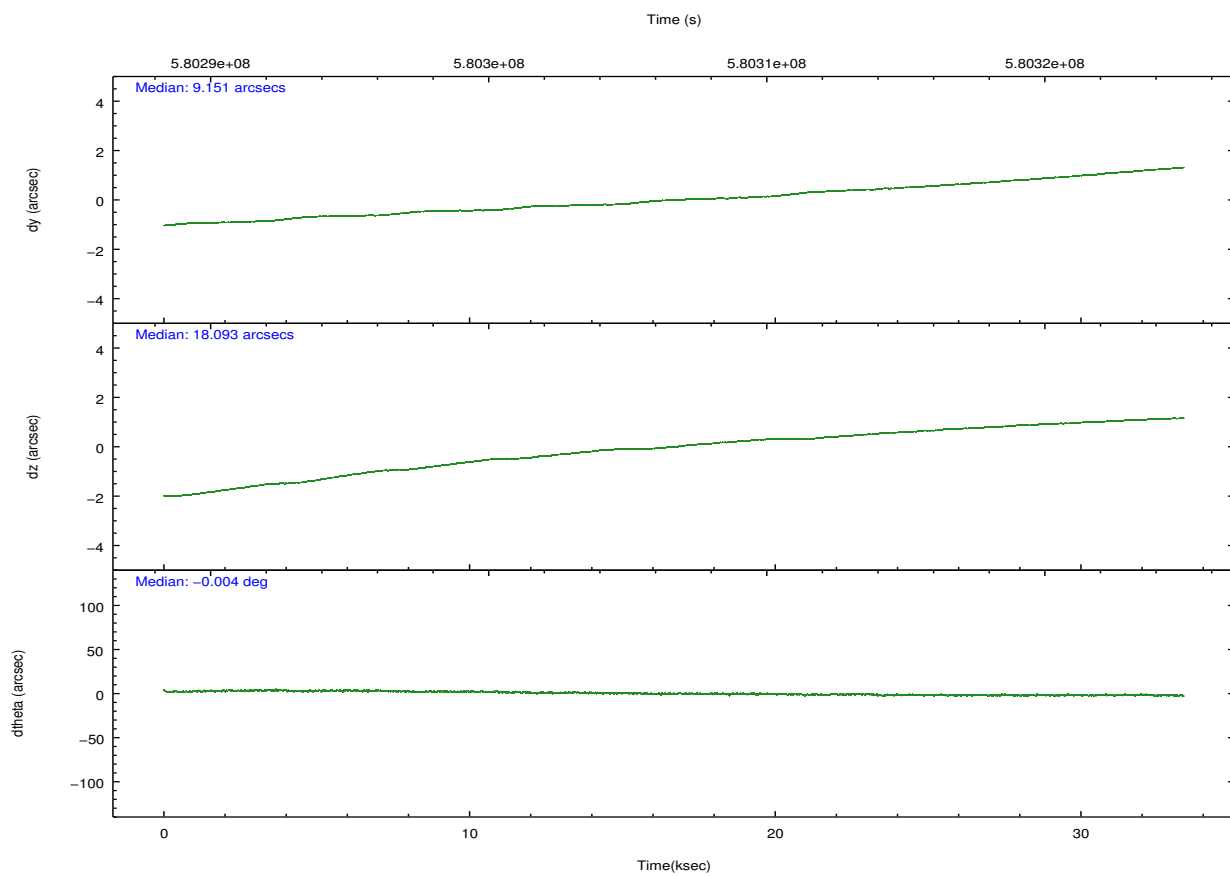
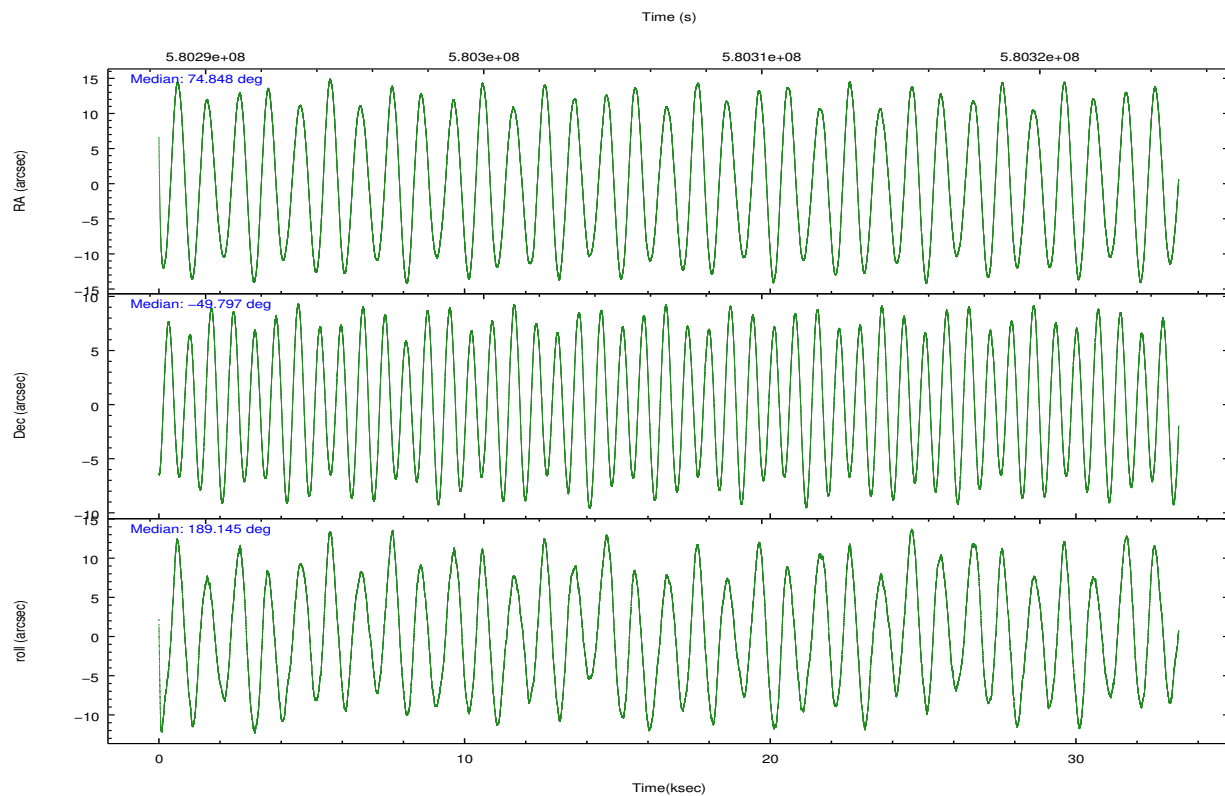
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	14489	8517	7780	7497	7809
	7%	4%	3%	3%	3%
grade 1 events	194	93	124	122	91
	0%	0%	0%	0%	0%
grade 2 events	15761	6568	5539	4818	5313
	7%	3%	2%	2%	2%
grade 3 events	2339	2422	2202	2269	2300
	1%	1%	1%	1%	1%
grade 4 events	2205	2368	2202	2300	2216
	1%	1%	1%	1%	1%
grade 5 events	8403	9000	8170	9962	9533
	4%	4%	3%	4%	4%
grade 6 events	4887	5528	4241	4657	5577
	2%	2%	2%	2%	2%
grade 7 events	156916	155780	179852	171526	170119
	76%	81%	85%	84%	83%

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	74.881463	74.84837966662509	CCD I2 on	Y	Y
[deg] Pointing Dec	-49.779412	-49.79691971450735	CCD I3 on	Y	Y
[deg] Pointing Roll	188.965159	189.1485768578938	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	-225.842463	-225.8433433320239	CCD S3 on	N	N
[mm] SIM translation stage offset	-7.75	-7.749109670905796	CCD S4 on	N	N
[s] Observation start time (MET)	580290148.184000	580289064.5513	CCD S5 on	N	N
Observation start date	2016-05-22T07:41:20	2016-05-22T07:24:24	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	580323346.184000	580323585.52827	On-chip summing requested	N	N
Observation end date	2016-05-22T16:54:38	2016-05-22T16:59:45	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



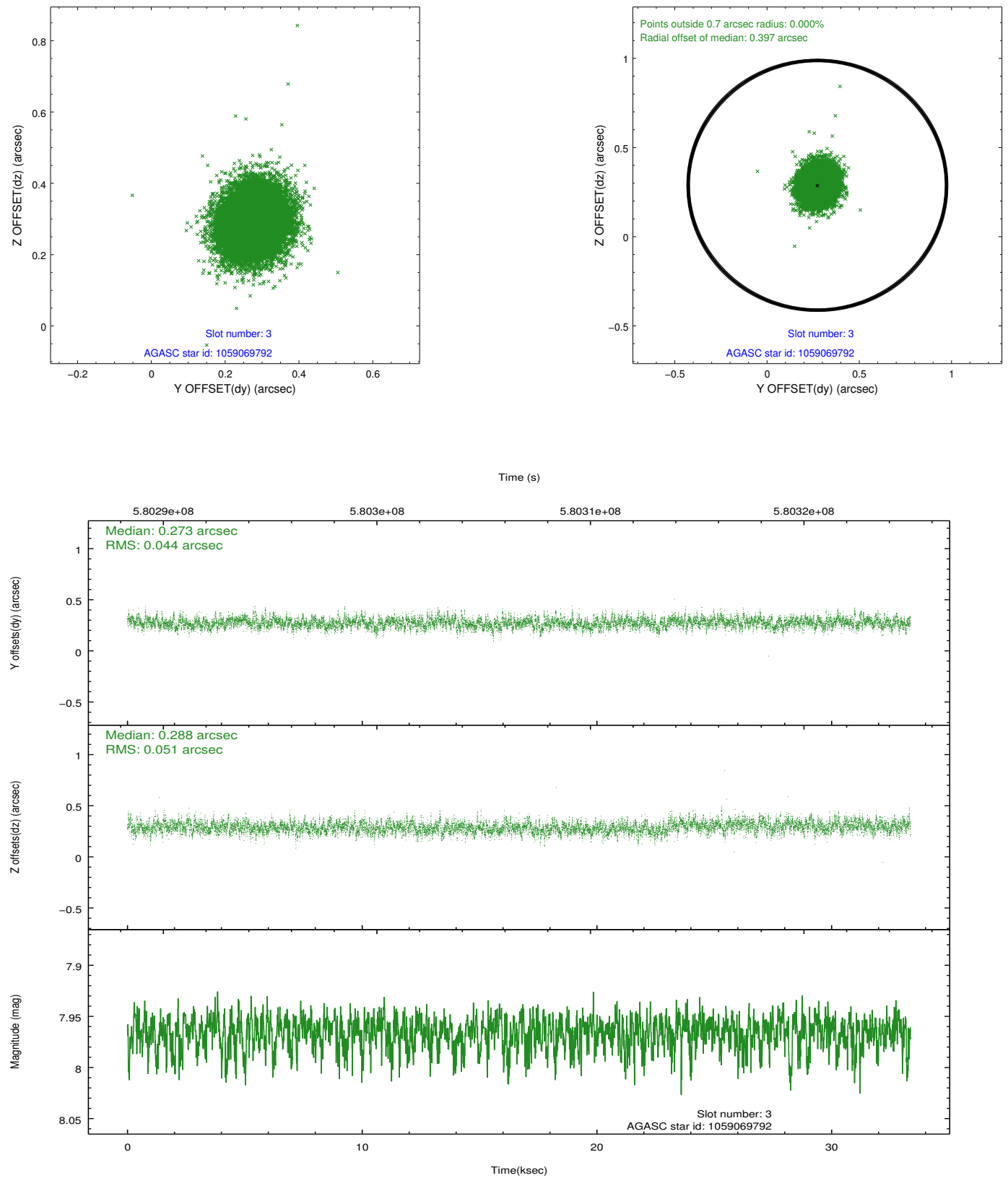


Slot Statistics

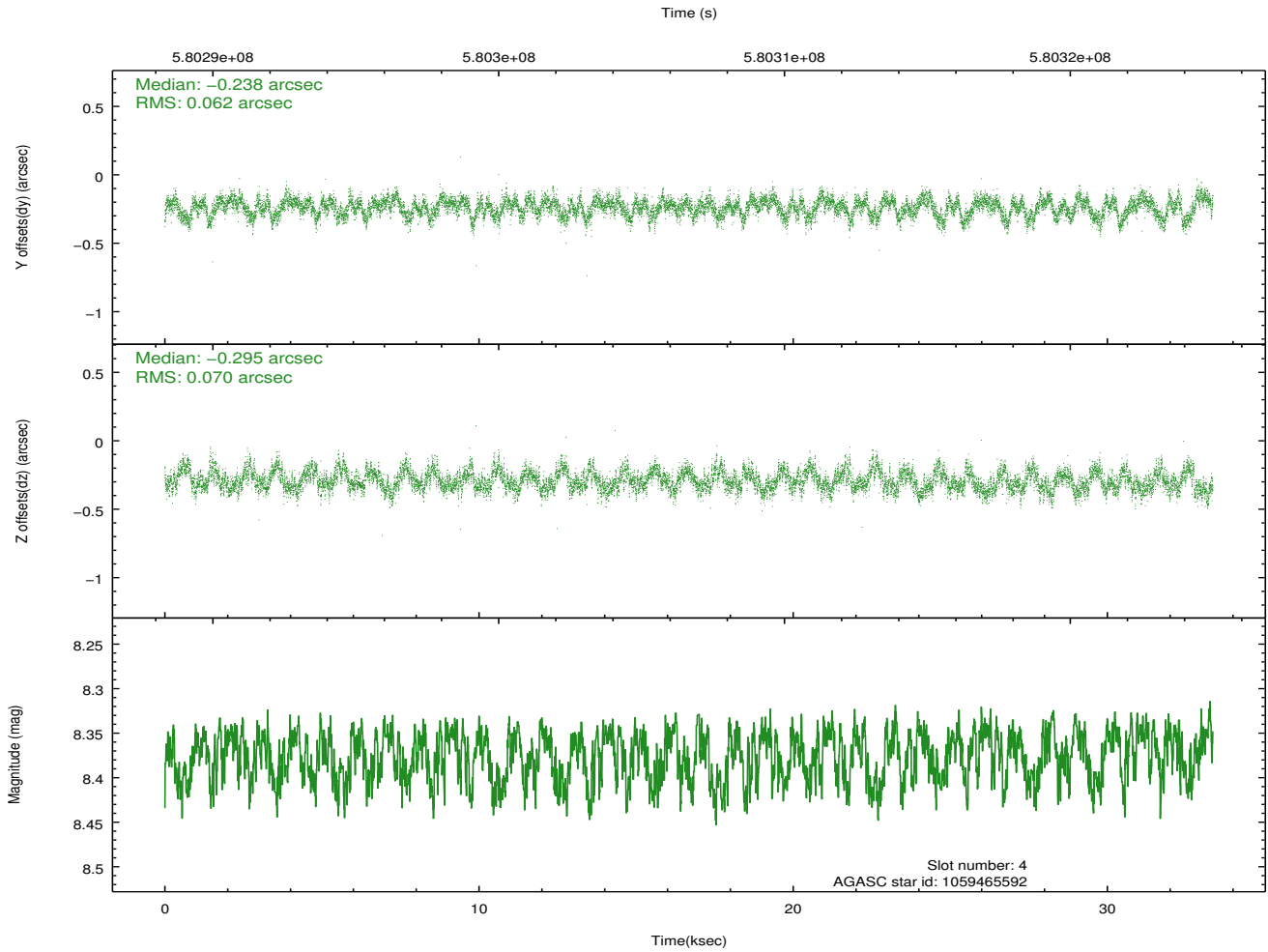
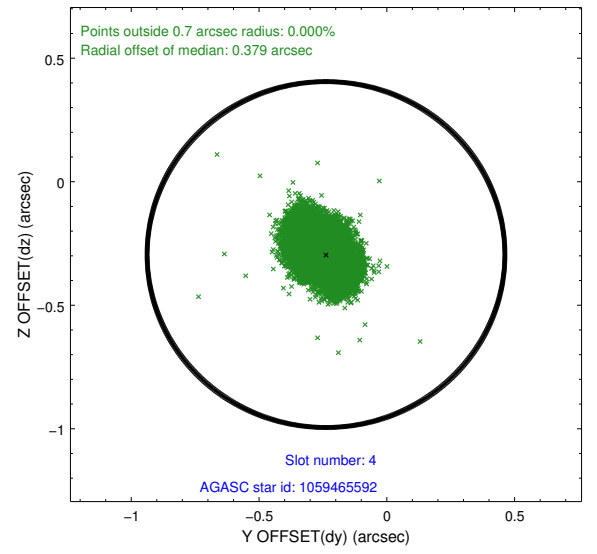
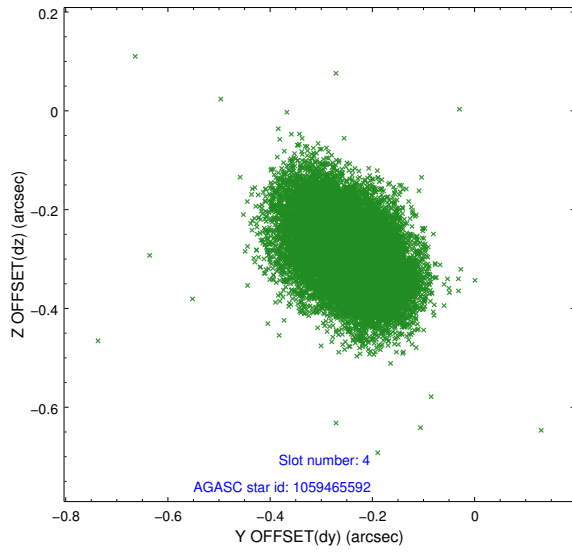
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.23	8137	0.137	-0.126	0.031	0.080	0.000000	0.000000	930.46	-1000.83
1	FID		ACIS-I-5	7.21	8138	-0.334	0.094	0.019	0.026	0.000000	0.000000	-1818.16	896.75
2	FID		ACIS-I-6	7.26	8135	0.105	0.107	0.018	0.055	0.000000	0.000000	395.82	1541.41
3	GUIDE	used	1059069792	7.97	16268	0.273	0.288	0.071	0.117	74.923482	-49.123698	-465.10	-2315.96
4	GUIDE	used	1059465592	8.37	16270	-0.238	-0.295	0.099	0.163	74.779199	-50.142014	436.22	1252.56
5	GUIDE	used	1059206568	7.03	16274	0.102	0.421	0.088	0.139	75.815619	-49.492286	-2316.82	-667.13
6	GUIDE	used	1059466240	8.89	16260	-0.063	-0.166	0.108	0.172	74.209270	-50.505530	1928.35	2349.87
7	GUIDE	used	1059592008	8.10	16199	-0.069	-0.255	0.070	0.116	75.466024	-50.276117	-1049.16	1980.88

2.4 Star Slots

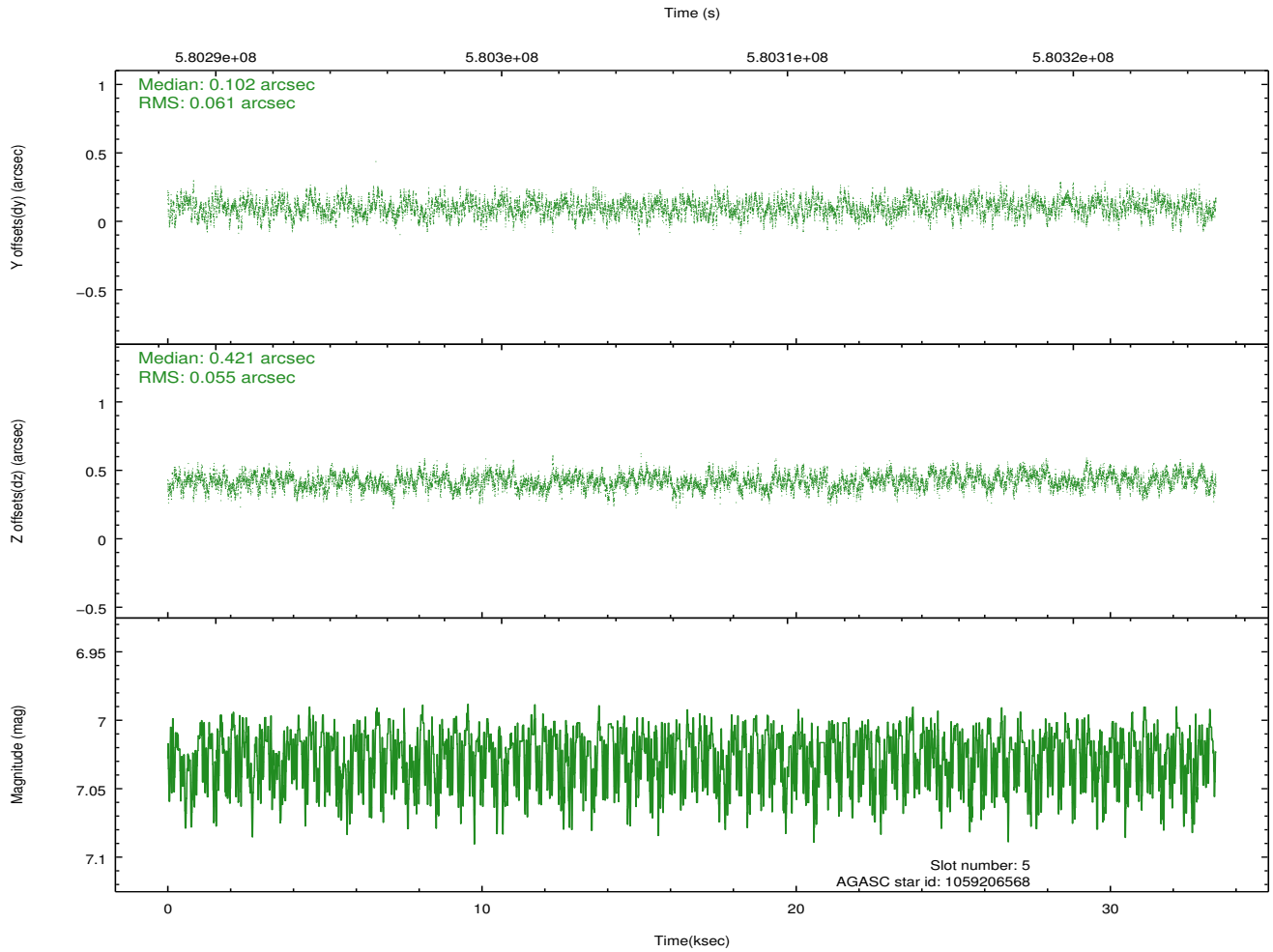
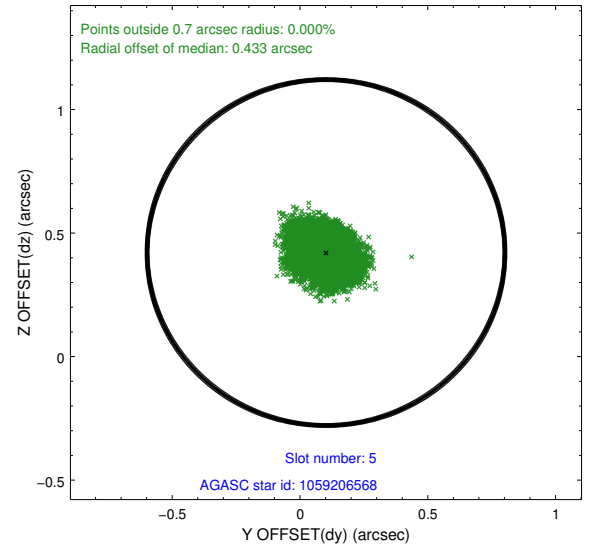
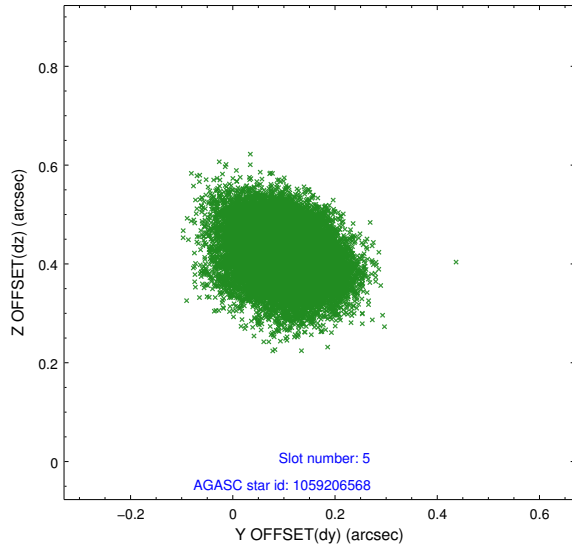
2.4.1 Slot 3



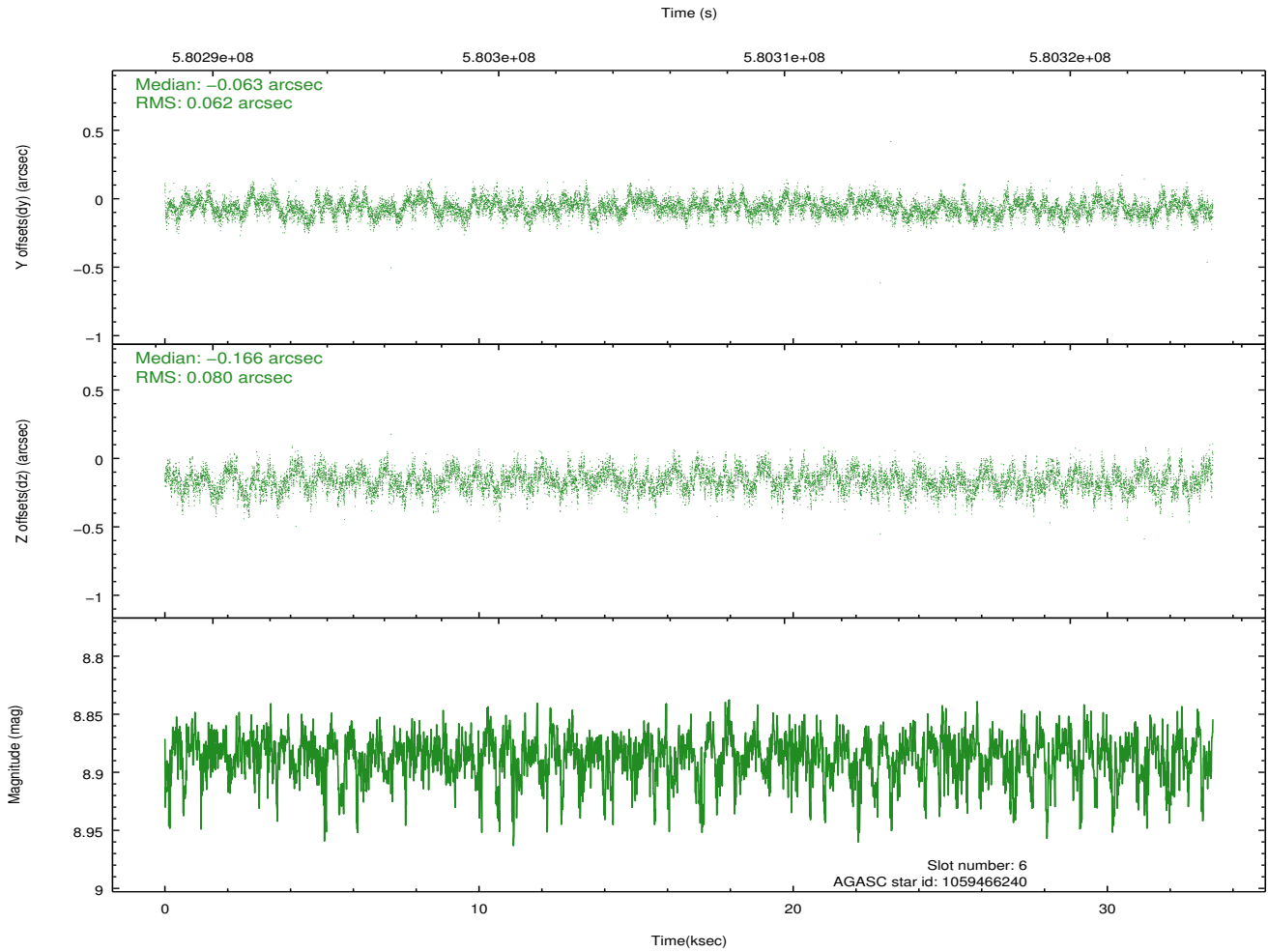
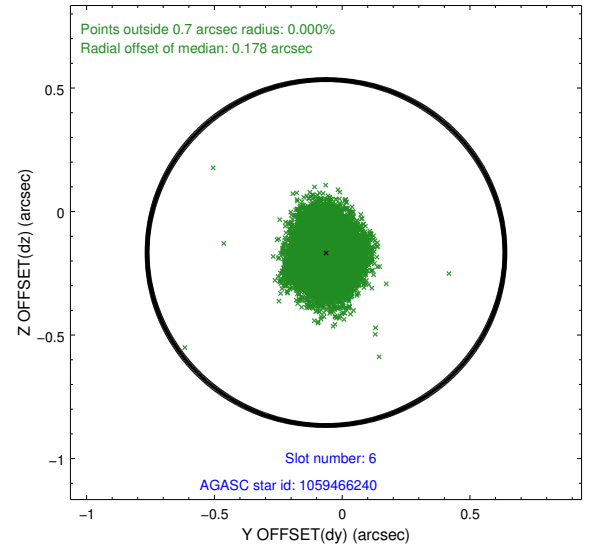
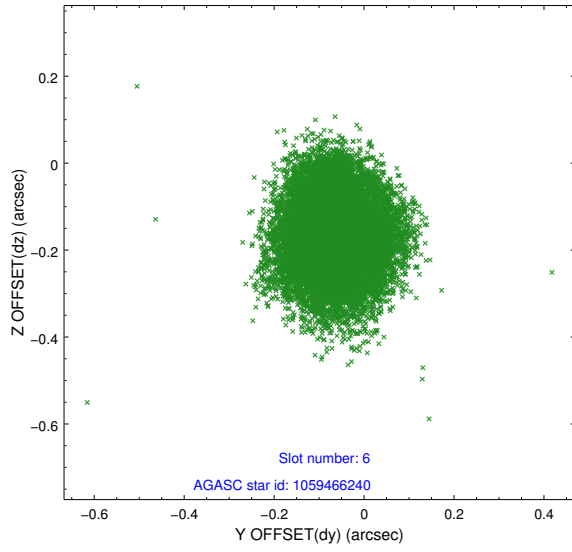
2.4.2 Slot 4



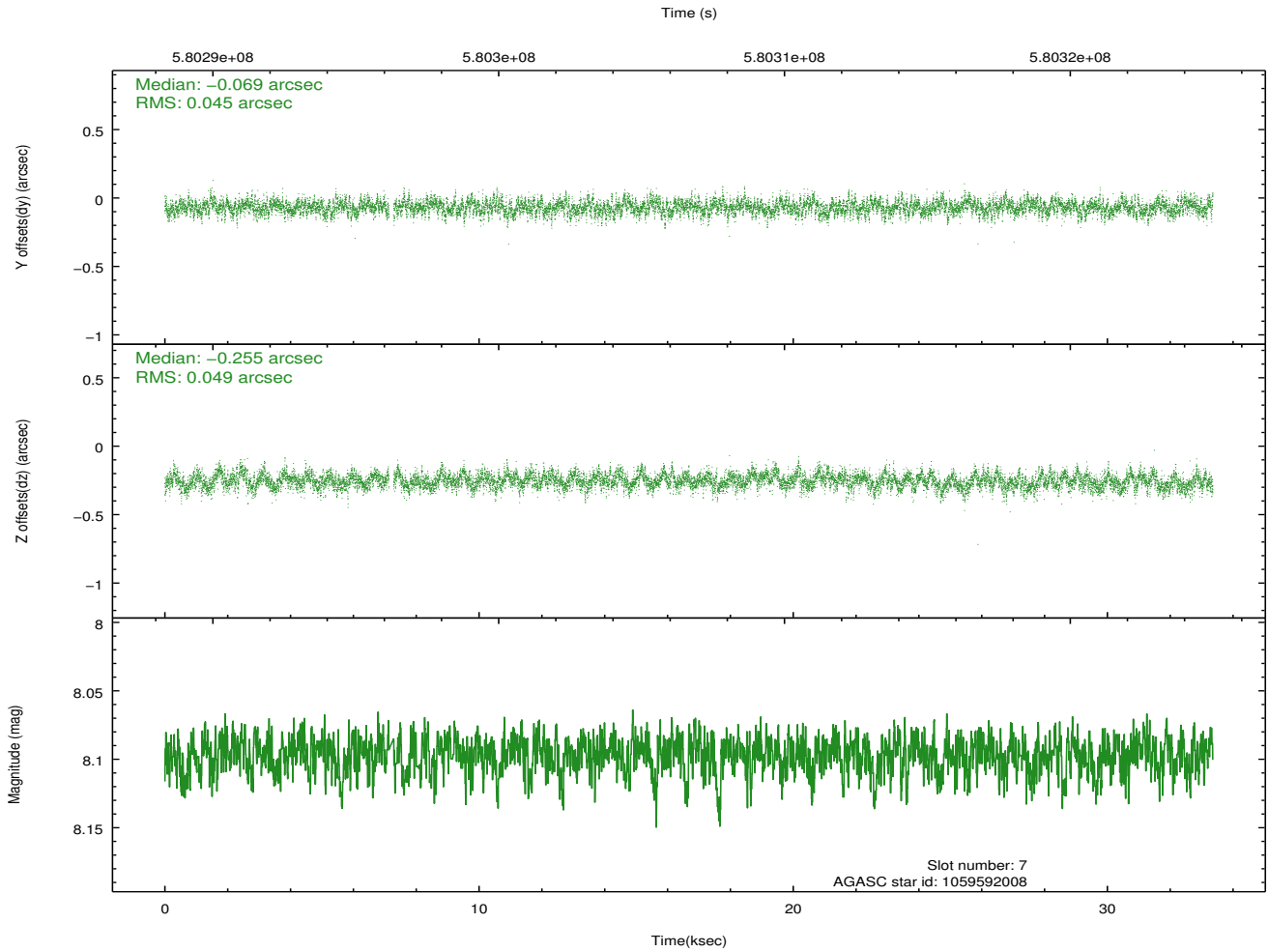
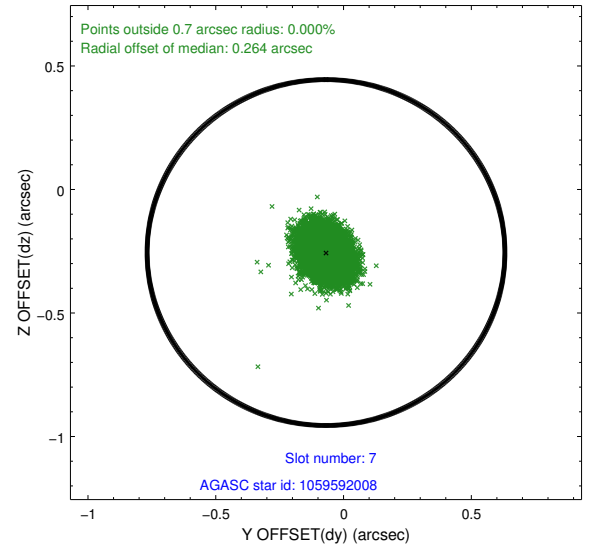
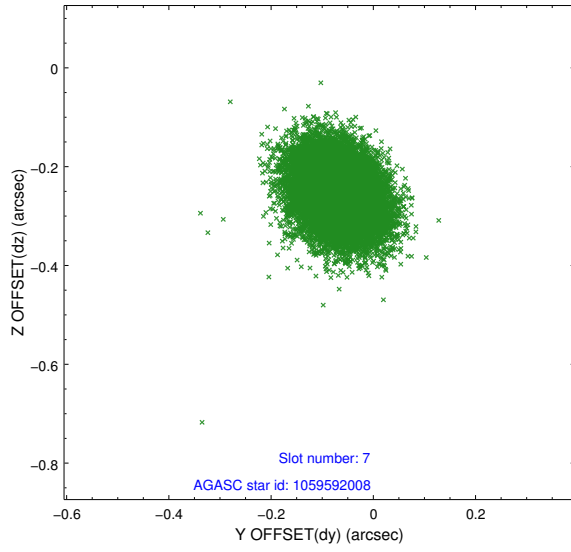
2.4.3 Slot 5



2.4.4 Slot 6

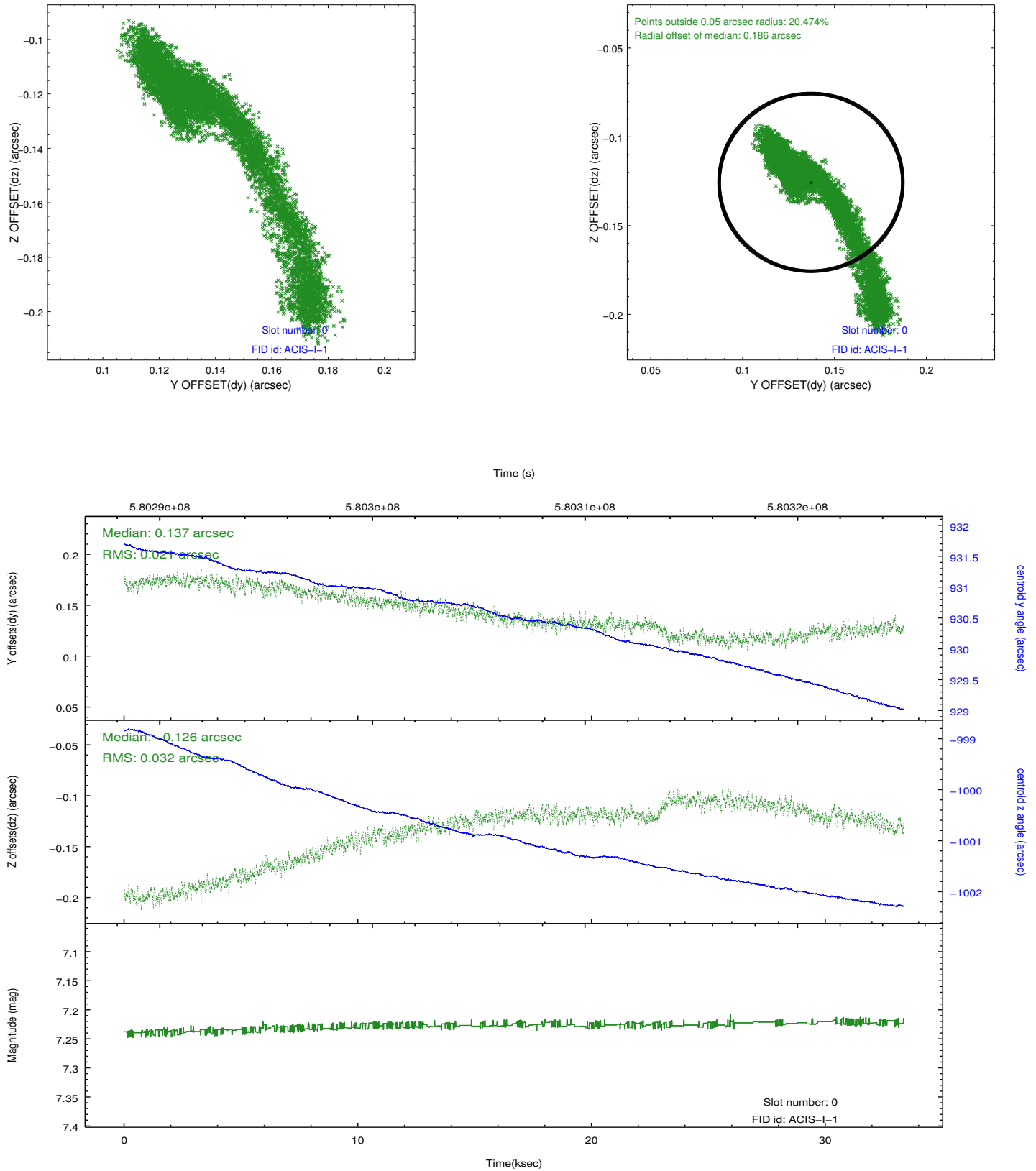


2.4.5 Slot 7

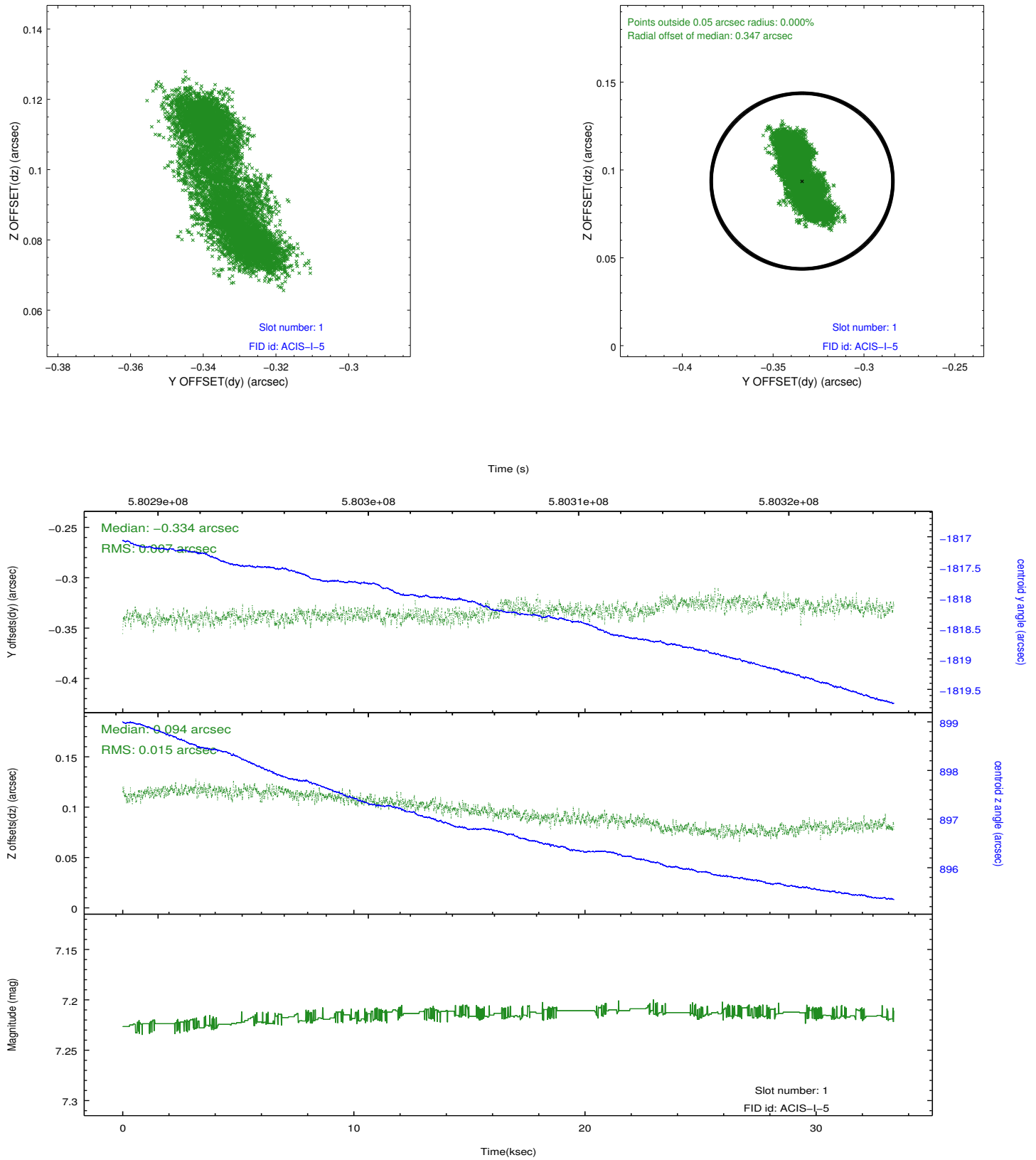


2.5 FID Slots

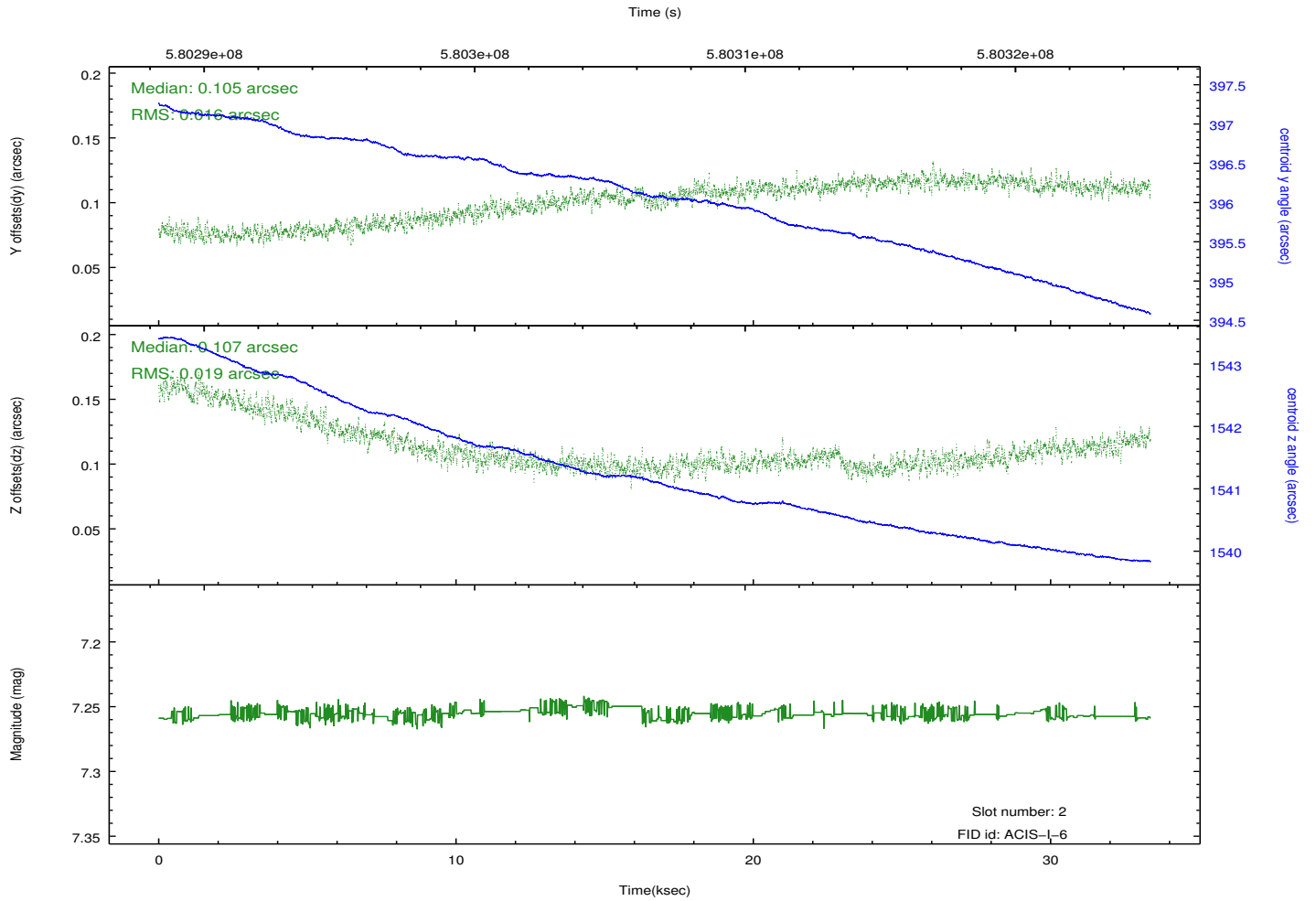
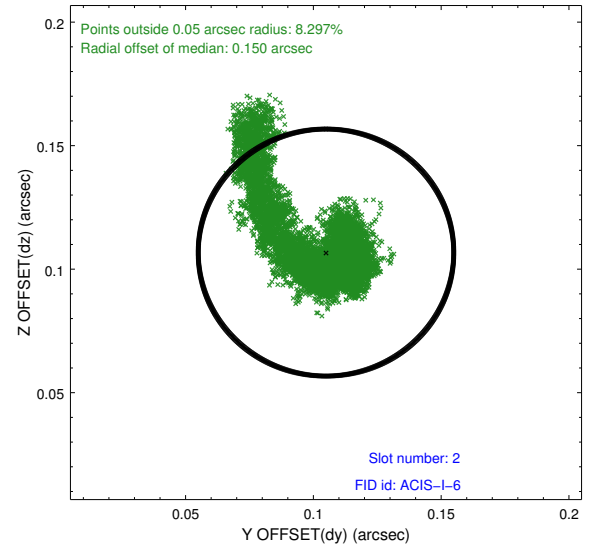
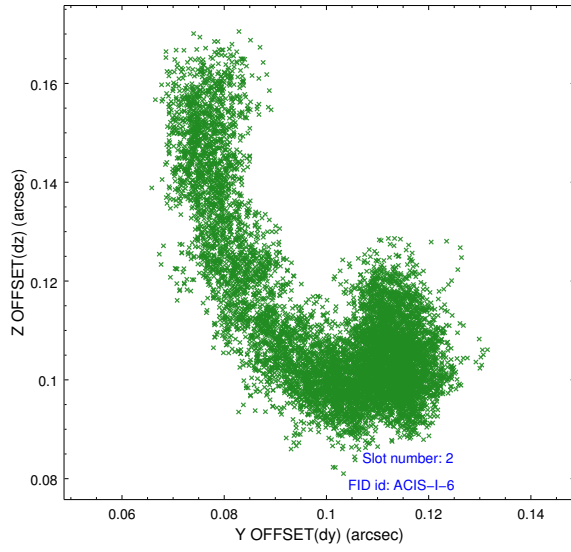
2.5.1 Slot 0



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)	2016.05.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	33.26920025599

A.2 Comments