

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 17189 - L2 Version 1
Chandra X-Ray Center

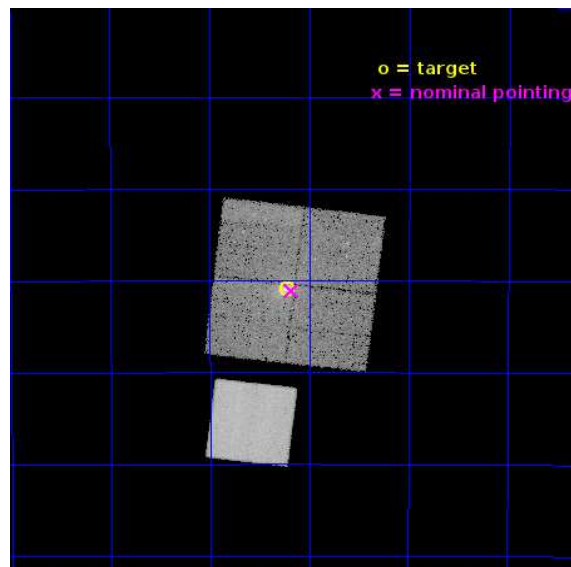
L2 Processing Date : May 26 2016

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1 Front

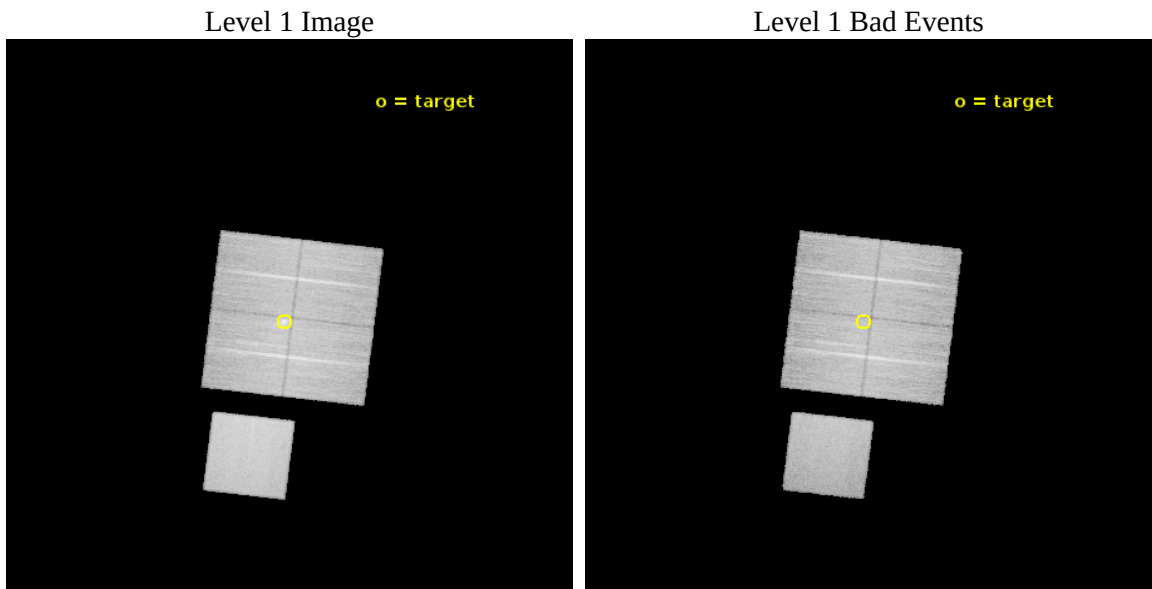
seq_num	801472	Sequence number
obs_id	17189	Observation id
title	Completing the survey of the most massive southern galaxy clusters	
observer	Prof. Hans Boehringer	Principal investigator
object	RXCJ0439.2-4600	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	69.804583	Observer's specified target RA [deg]
dec_targ	-46.015111	Observer's specified target Dec [deg]
ra_nom	69.795062945355	Nominal RA [deg]
dec_nom	-46.018462504431	Nominal Dec [deg]
roll_nom	186.80199960382	Nominal Roll [deg]
revision	1	Processing version of data
ontime	28036.359185696	Sum of GTIs [s]
livetime	27670.043512867	Livetime [s]
ontime0	28039.500215769	Sum of GTIs [s]
ontime1	28036.359205604	Sum of GTIs [s]
ontime2	28033.218135357	Sum of GTIs [s]
ontime3	28036.359185696	Sum of GTIs [s]
ontime7	28039.500215769	Sum of GTIs [s]
l2events	166387	Number of level 2 events



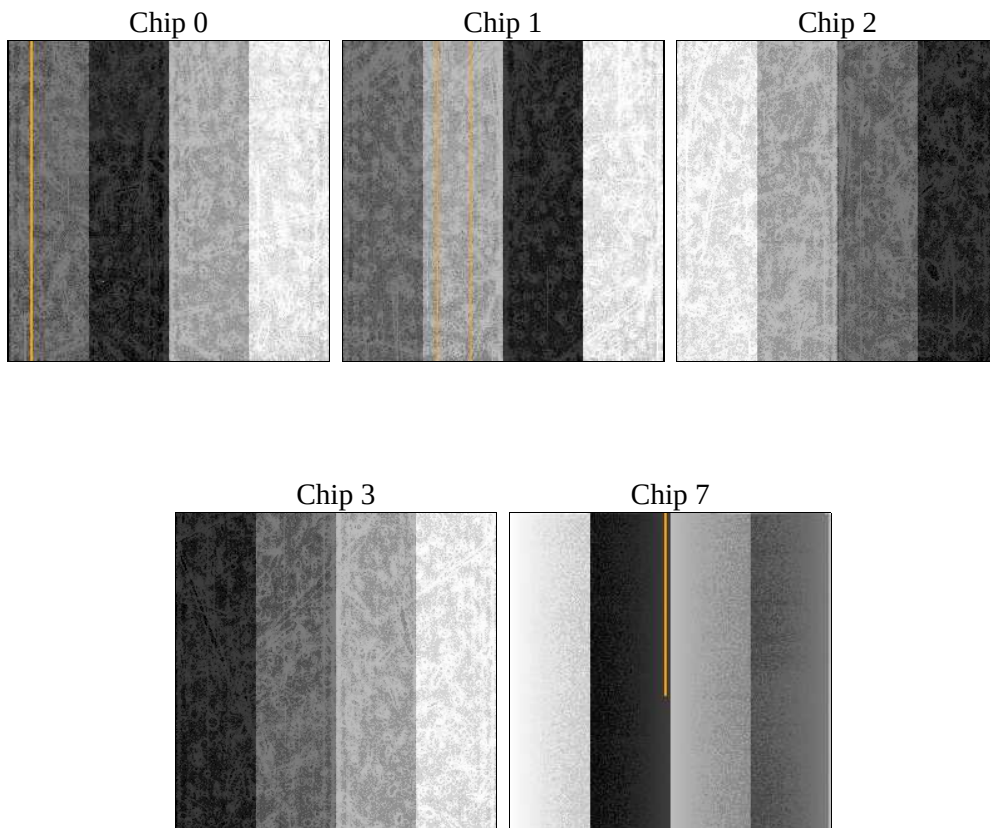
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	28000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	28036.359185696	Sum of GTIs [s]
caldsver	4.7.1	 	ontime0	28039.500215769	Sum of GTIs [s]
date	2016-05-26T22:20:55	Date and time of file creation	ontime1	28036.359205604	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	28033.218135357	Sum of GTIs [s]
			ontime3	28036.359185696	Sum of GTIs [s]
			ontime7	28039.500215769	Sum of GTIs [s]
			l1events	907127	Number of level 1 events

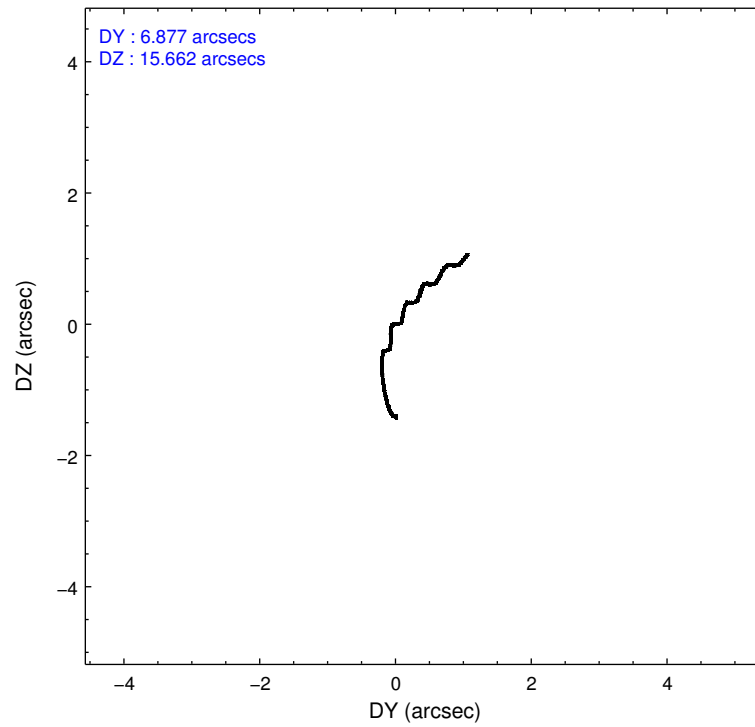
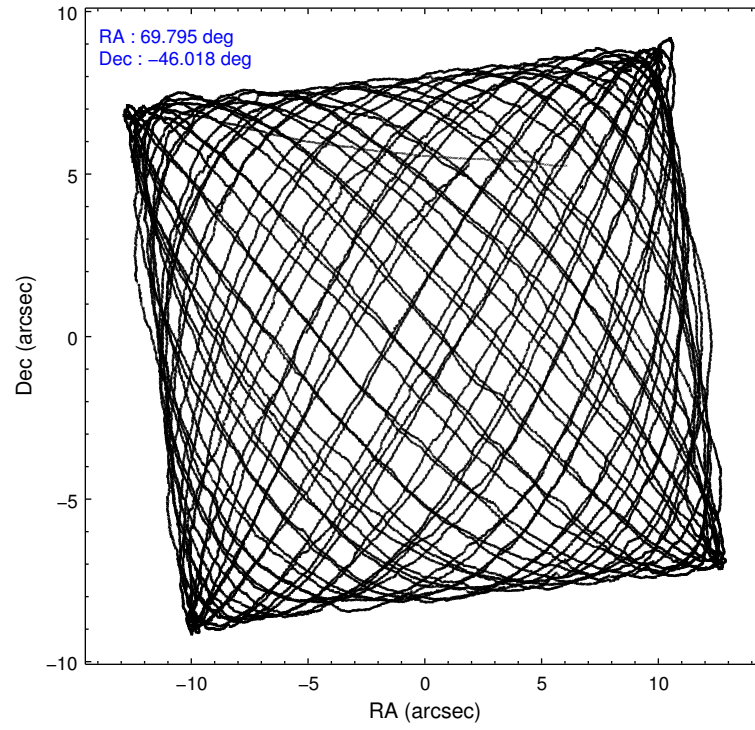
2.1.4 Events

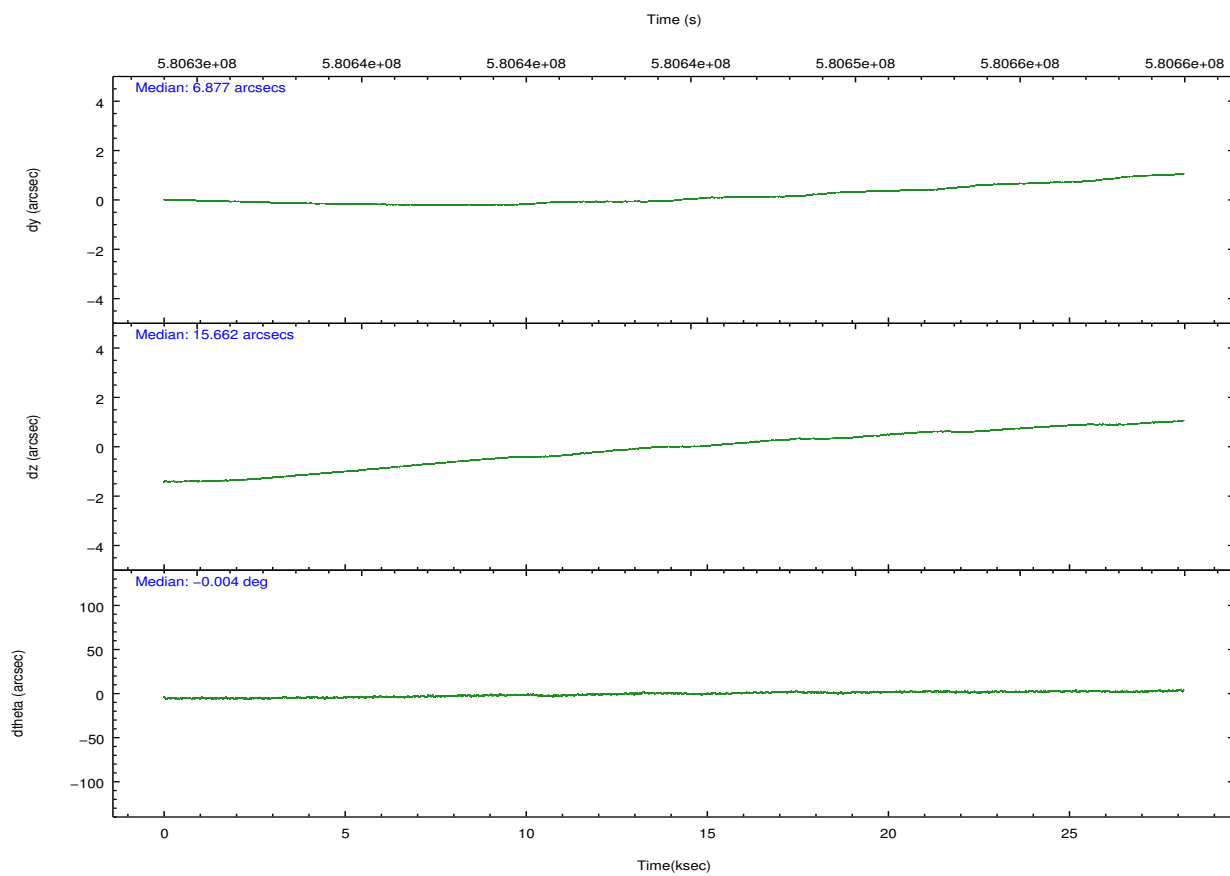
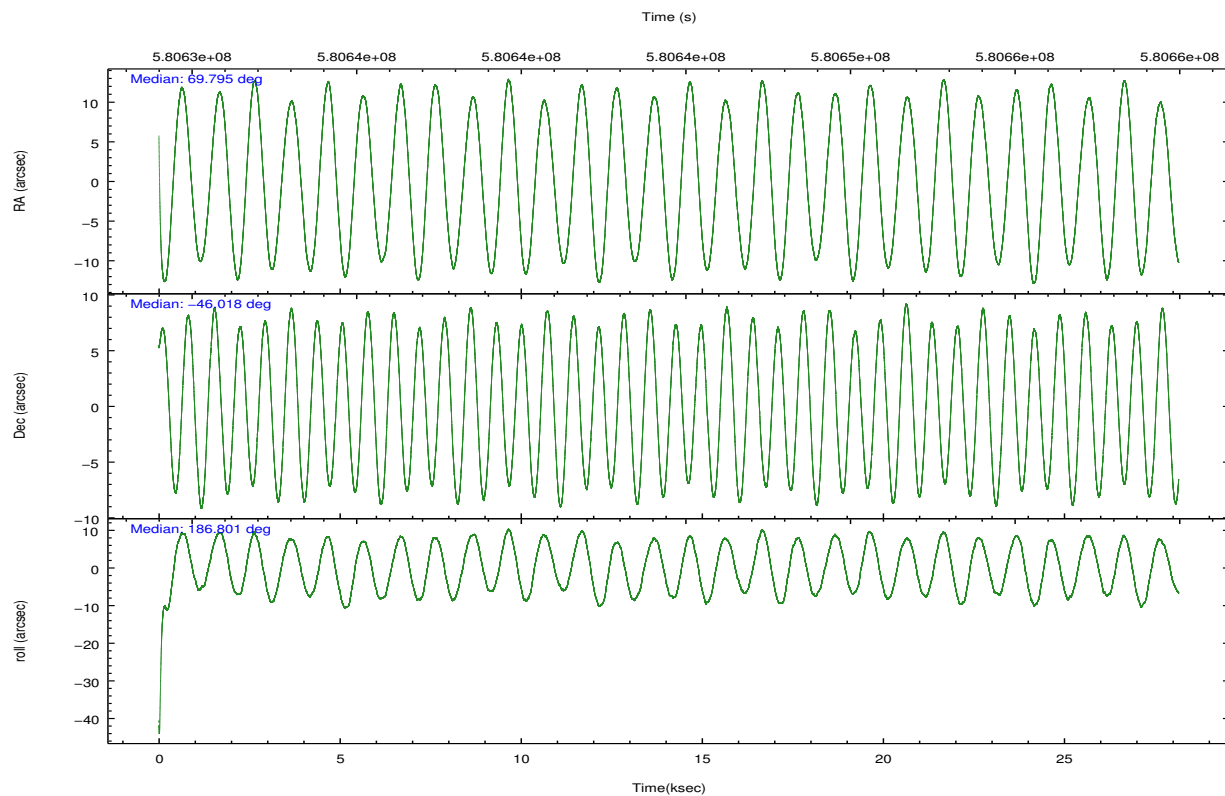
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	165342	161636	175776	176301	228072	grade 0 events	7521	7261	6920	10360	8083
rejected events	144912	139955	156679	153255	130457		4%	4%	3%	5%	3%
rejected %	87%	86%	89%	86%	57%	grade 1 events	74	81	100	109	280
							0%	0%	0%	0%	0%
						grade 2 events	4889	5506	4586	4395	20670
							2%	3%	2%	2%	9%
						grade 3 events	2018	2101	1921	2154	7821
							1%	1%	1%	1%	3%
						grade 4 events	1896	2076	1964	2113	7507
							1%	1%	1%	1%	3%
						grade 5 events	7628	7837	7216	8584	22652
							4%	4%	4%	4%	9%
						grade 6 events	4114	4738	3709	4032	53561
							2%	2%	2%	2%	23%
						grade 7 events	137202	132036	149360	144554	107498
							82%	81%	84%	81%	47%

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	69.826801	69.79506294535473	CCD I2 on	Y	Y
[deg] Pointing Dec	-46.001838	-46.01846250443138	CCD I3 on	Y	Y
[deg] Pointing Roll	186.616173	186.80199960382	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	N	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	580630553.184000	580629380.45829	CCD S5 on	N	N
Observation start date	2016-05-26T06:14:45	2016-05-26T05:56:20	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	580658553.184000	580659207.4475	On-chip summing requested	N	N
Observation end date	2016-05-26T14:01:25	2016-05-26T14:13:27	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



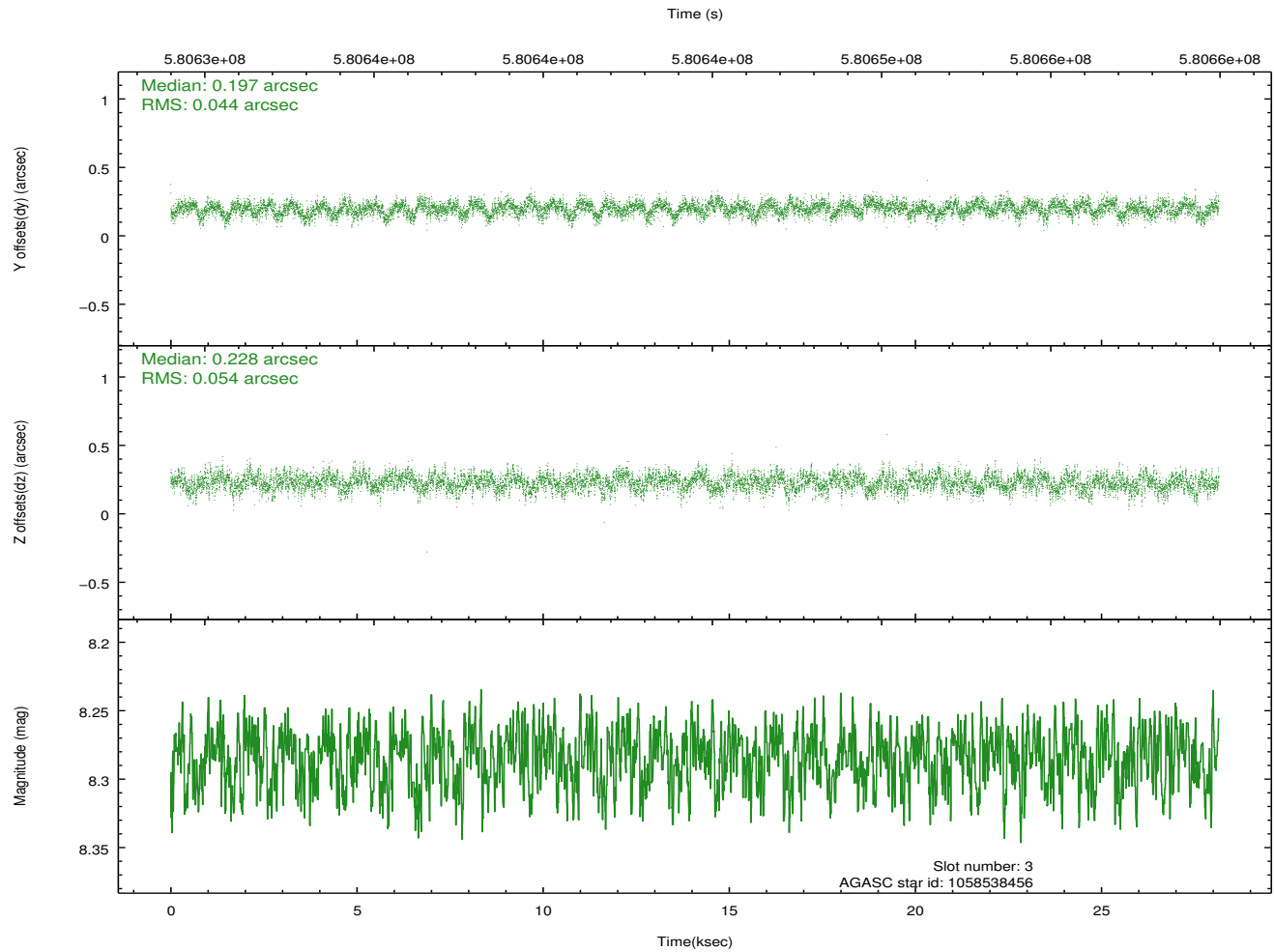
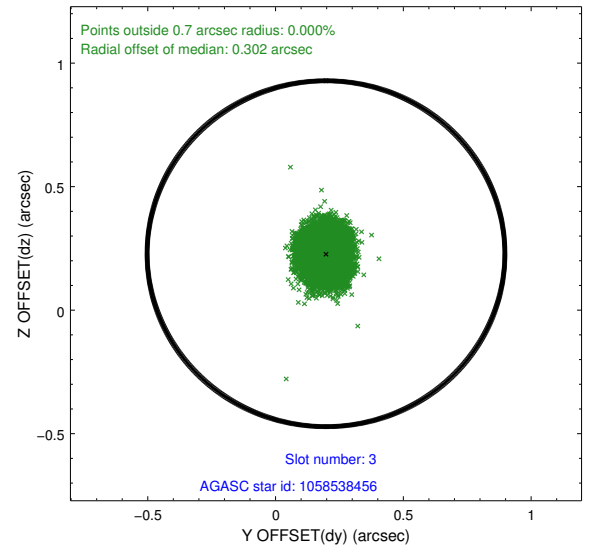
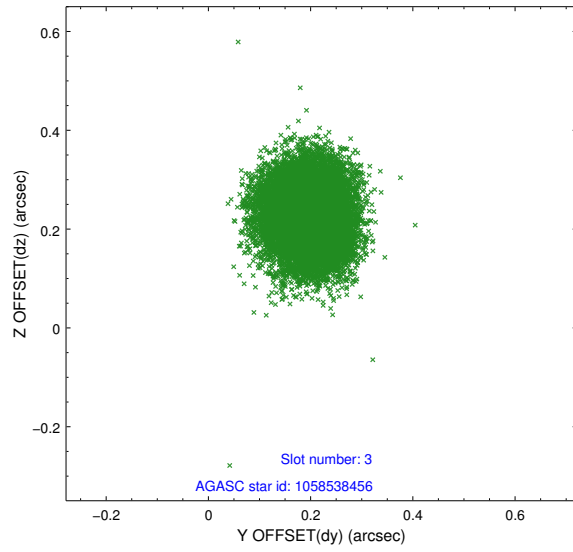


Slot Statistics

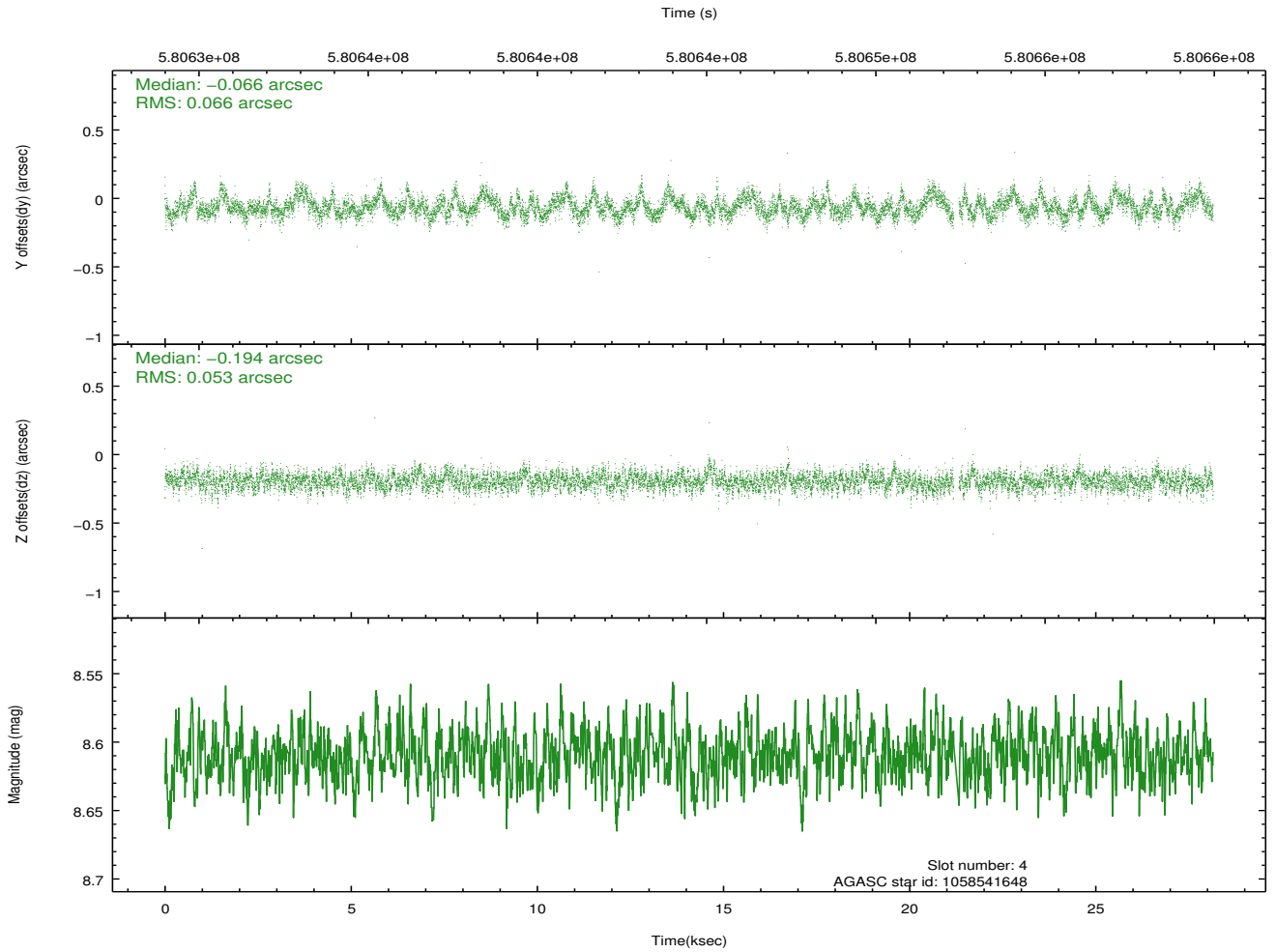
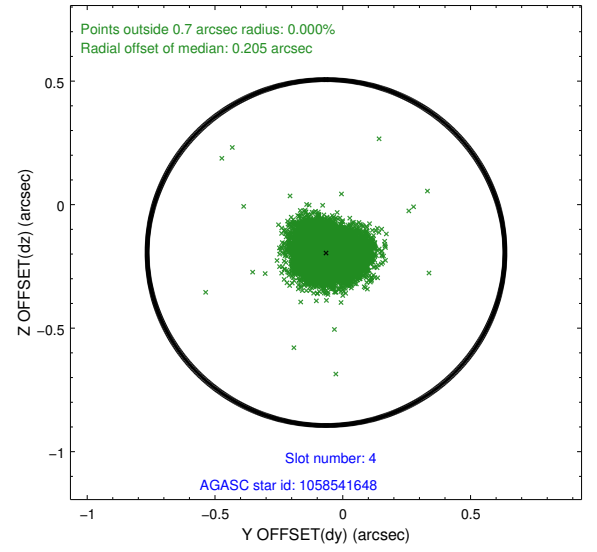
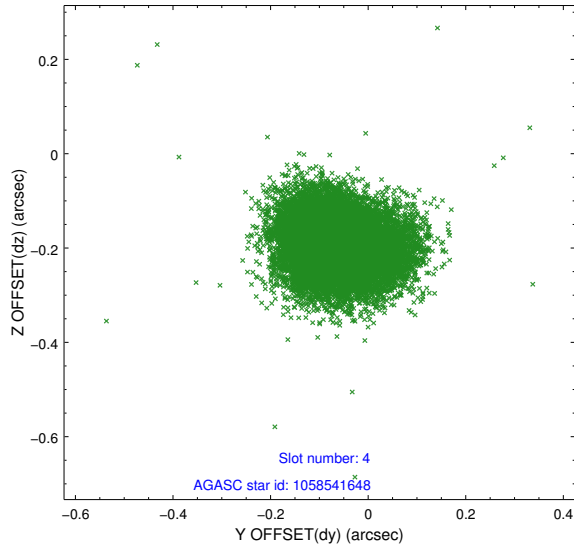
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.26	6868	0.186	-0.047	0.017	0.032	0.000000	0.000000	932.84	-839.19
1	FID		ACIS-I-2	7.16	6868	-0.087	-0.084	0.019	0.032	0.000000	0.000000	-761.48	-845.78
2	FID		ACIS-I-5	7.23	6868	-0.194	0.201	0.016	0.030	0.000000	0.000000	-1815.91	1058.40
3	GUIDE	used	1058538456	8.28	13729	0.197	0.228	0.074	0.120	70.444308	-45.307467	-1840.22	-2296.80
4	GUIDE	used	1058541648	8.61	13660	-0.066	-0.194	0.089	0.145	69.107865	-46.276071	1891.36	782.23
5	GUIDE	used	1058545048	8.58	13733	-0.243	-0.092	0.073	0.128	69.002347	-46.355503	2182.77	1039.53
6	GUIDE	used	1058548536	7.88	13737	0.142	0.160	0.095	0.154	70.202524	-45.793042	-1022.40	-635.47
7	GUIDE	used	1058543928	8.35	13733	-0.037	-0.104	0.100	0.170	70.837322	-46.453860	-2300.29	1921.14

2.4 Star Slots

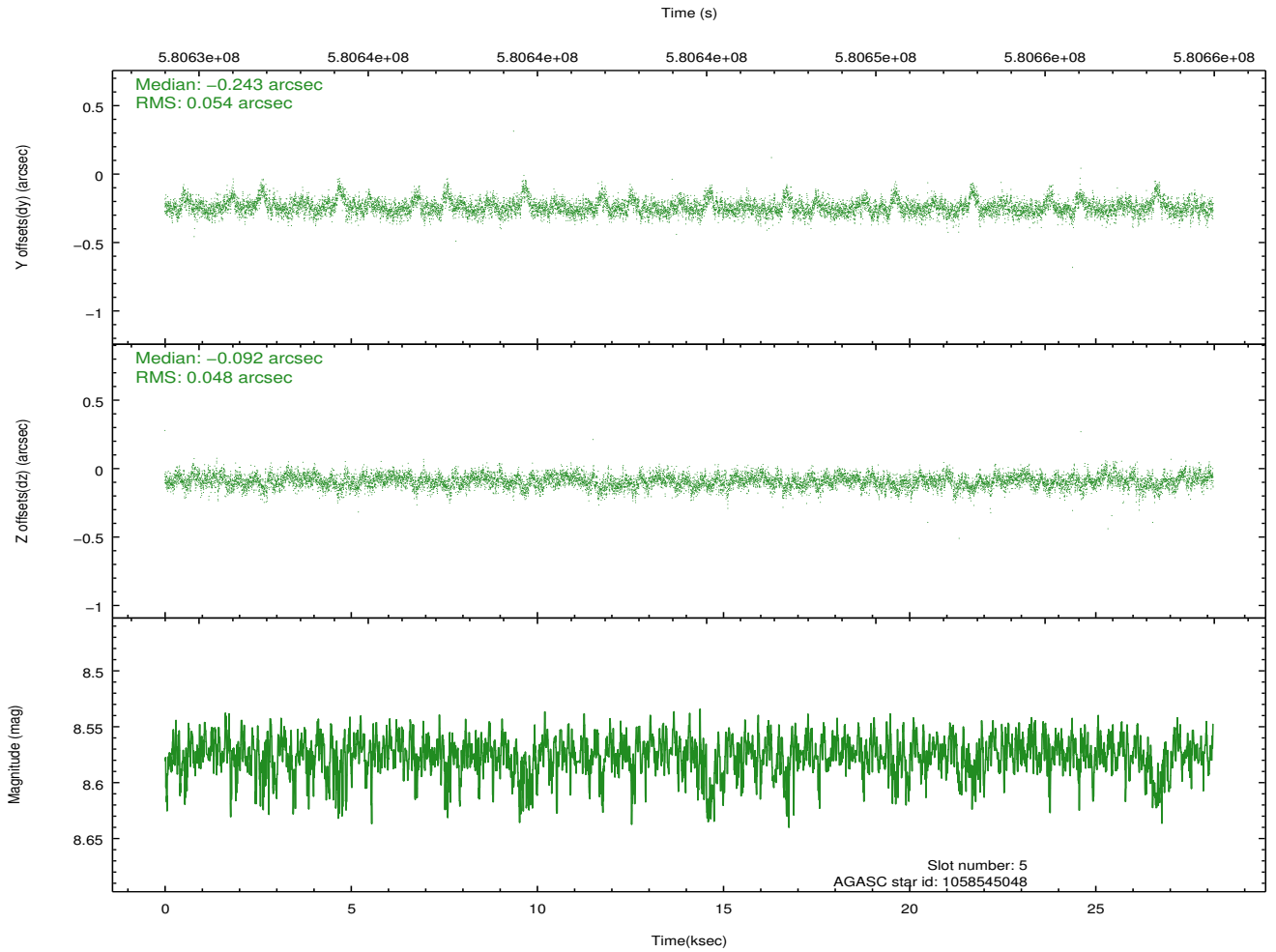
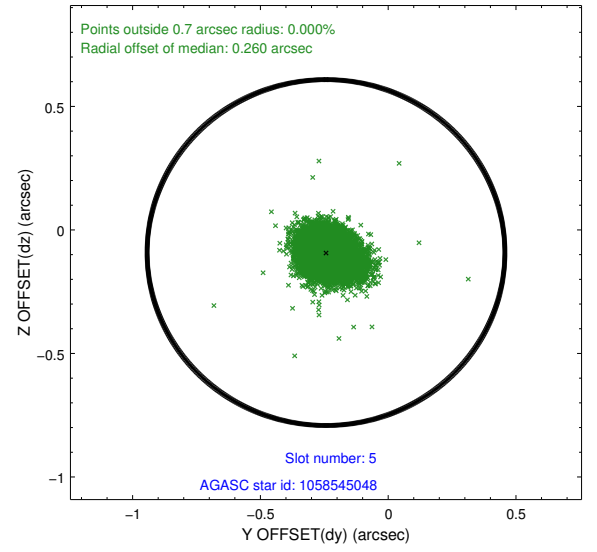
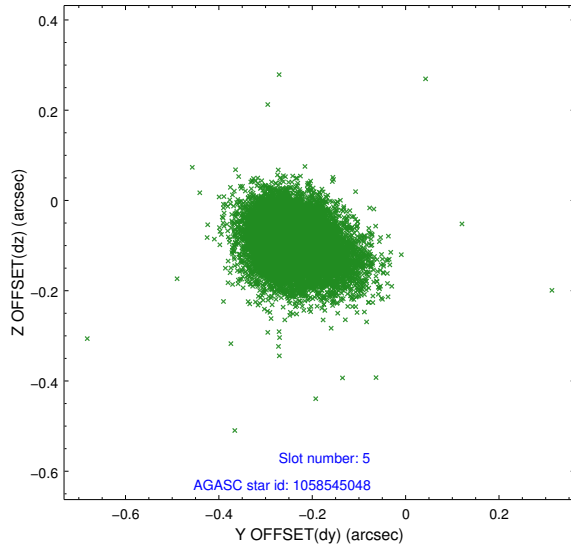
2.4.1 Slot 3



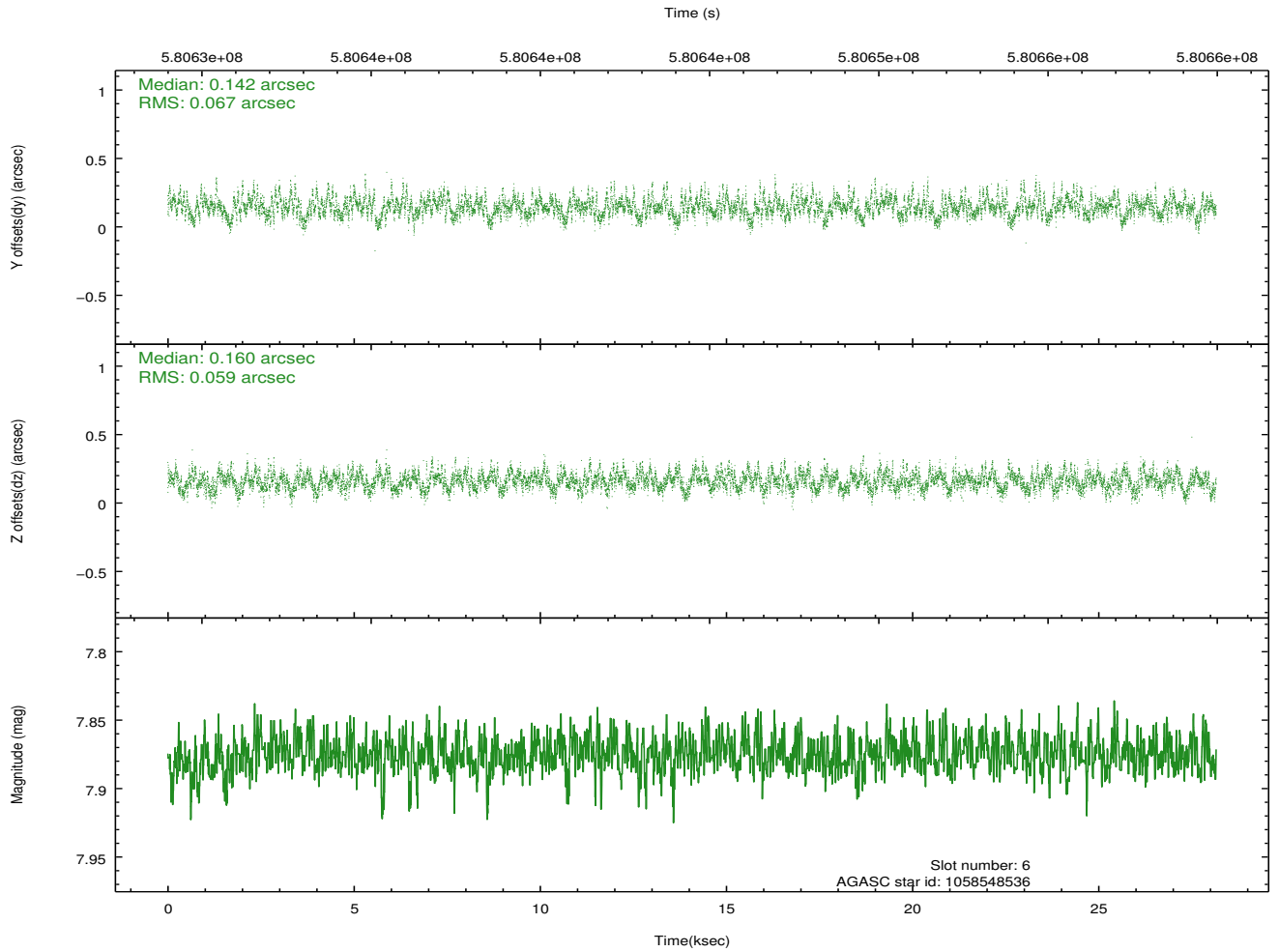
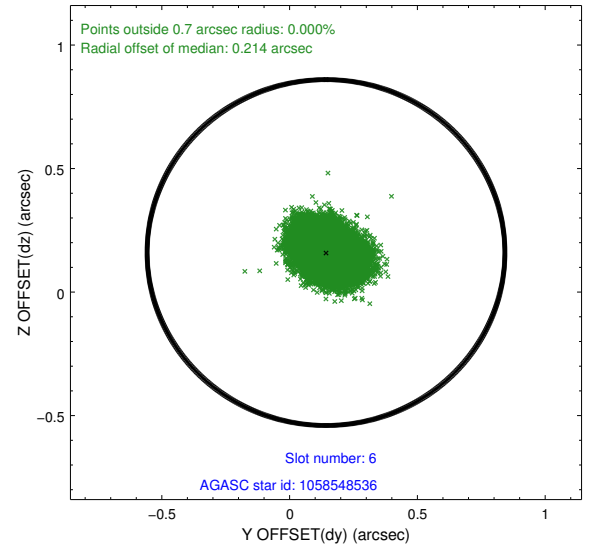
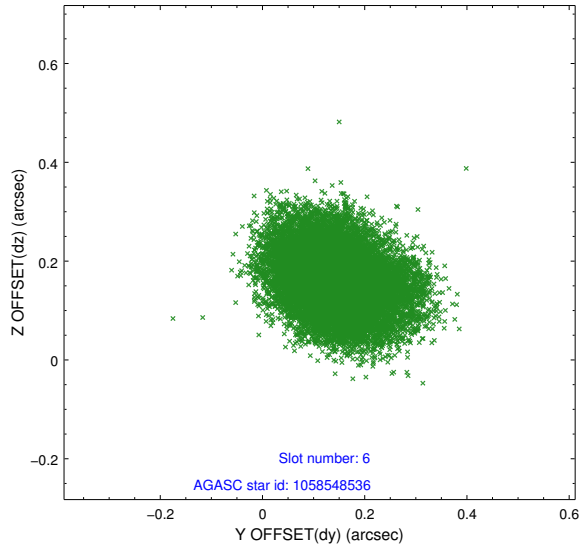
2.4.2 Slot 4



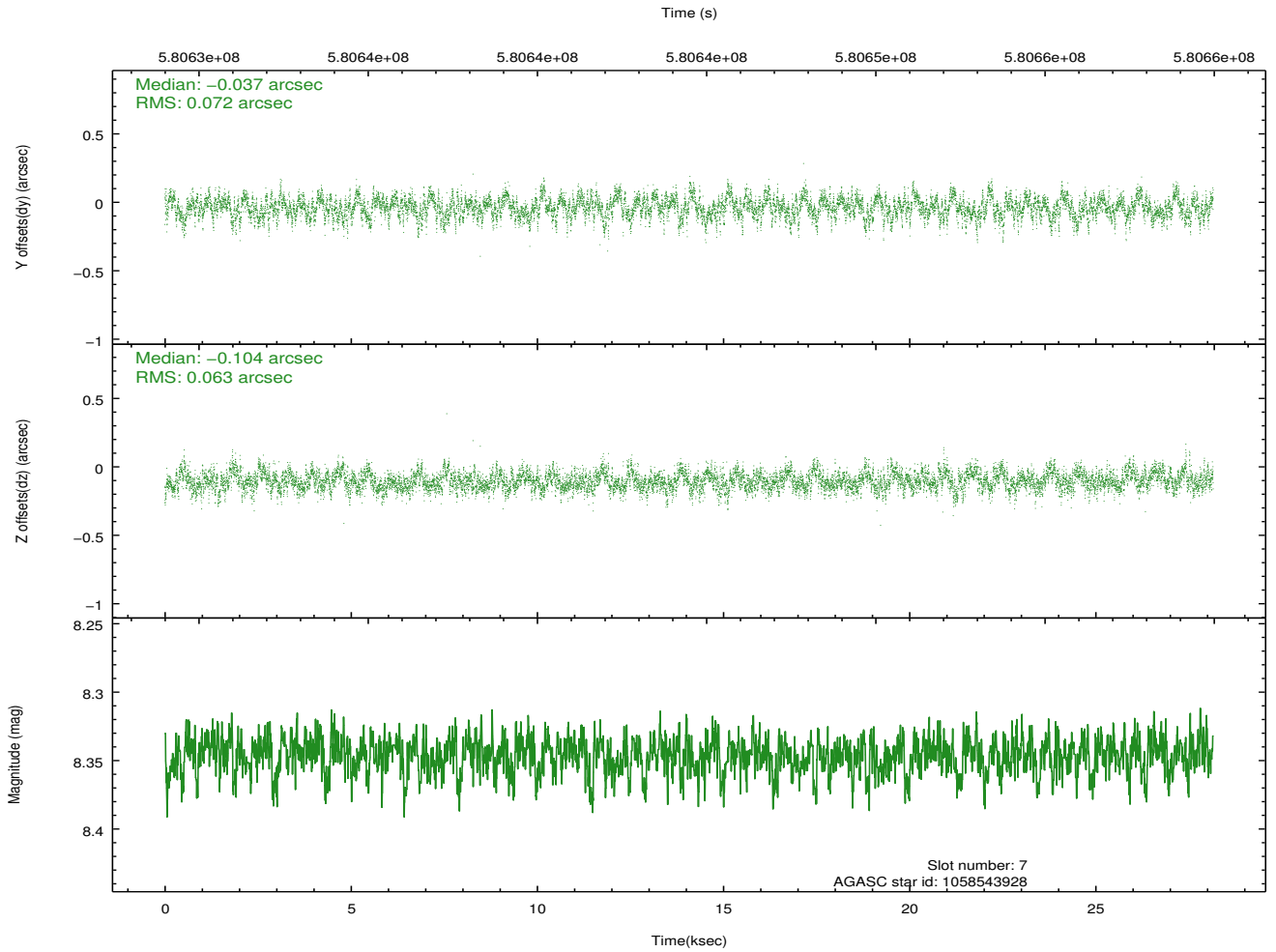
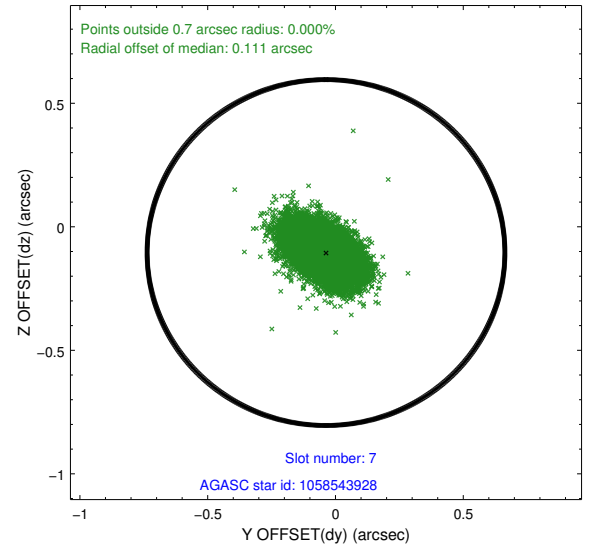
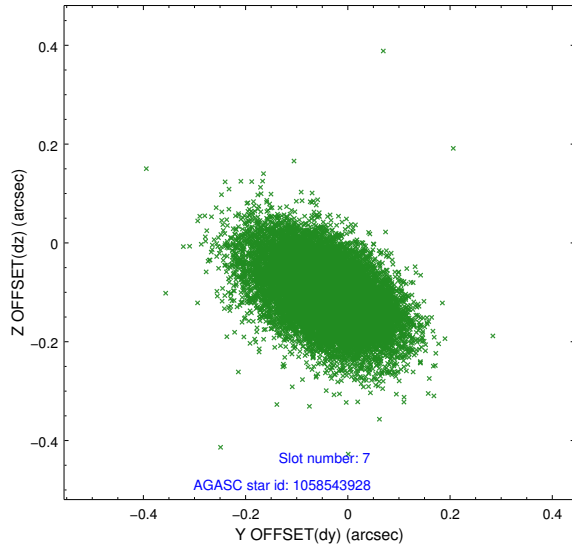
2.4.3 Slot 5



2.4.4 Slot 6

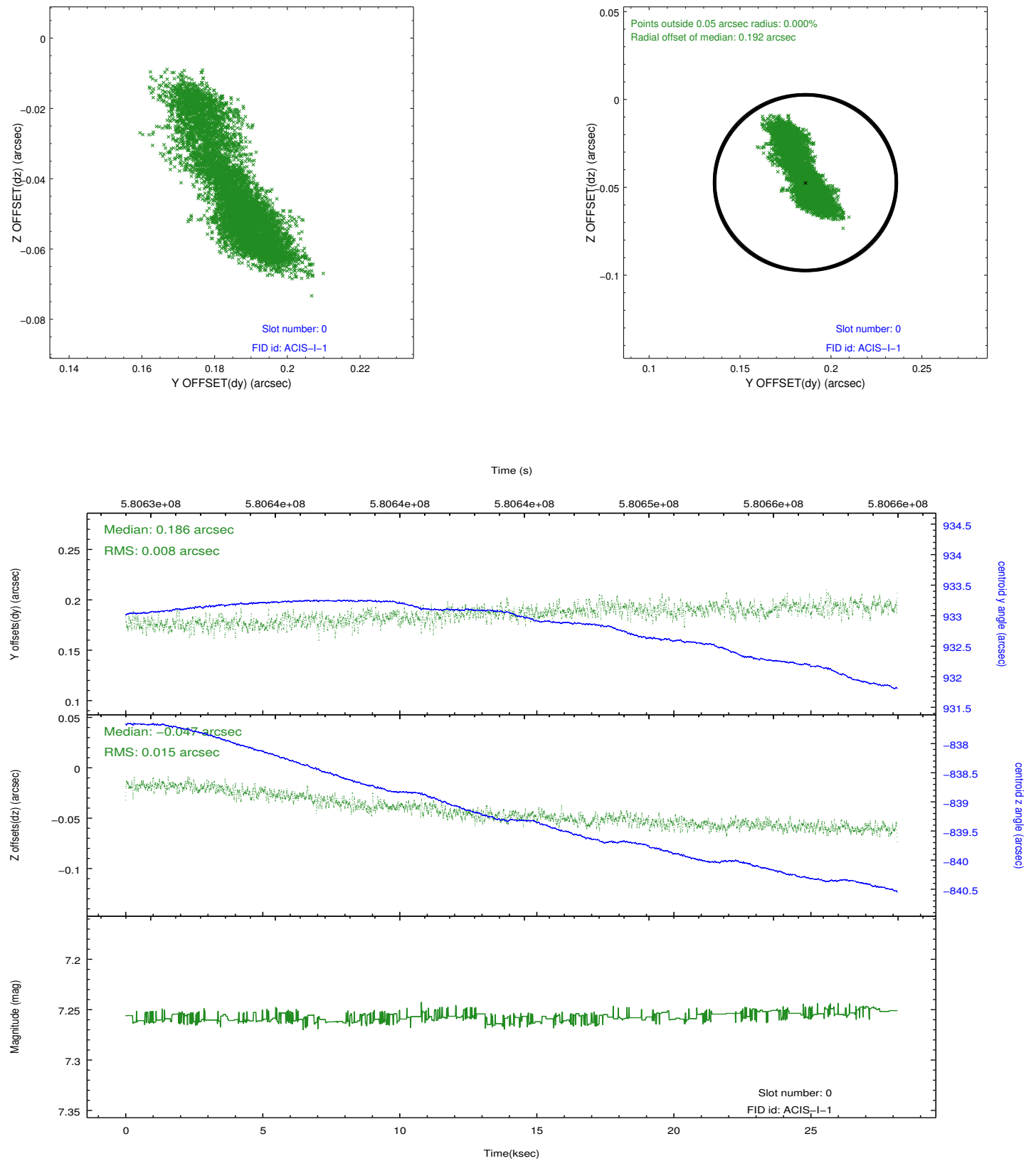


2.4.5 Slot 7

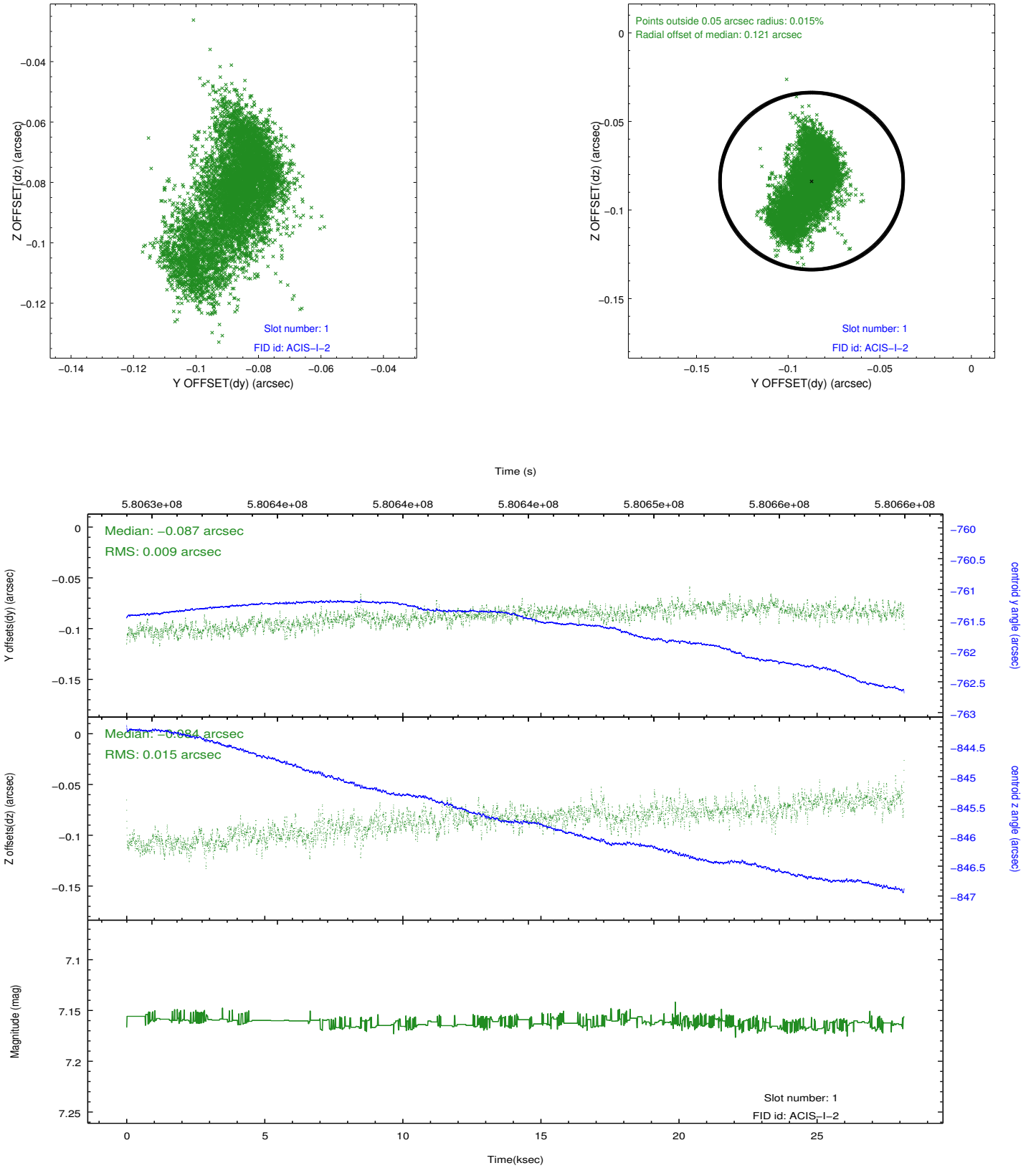


2.5 FID Slots

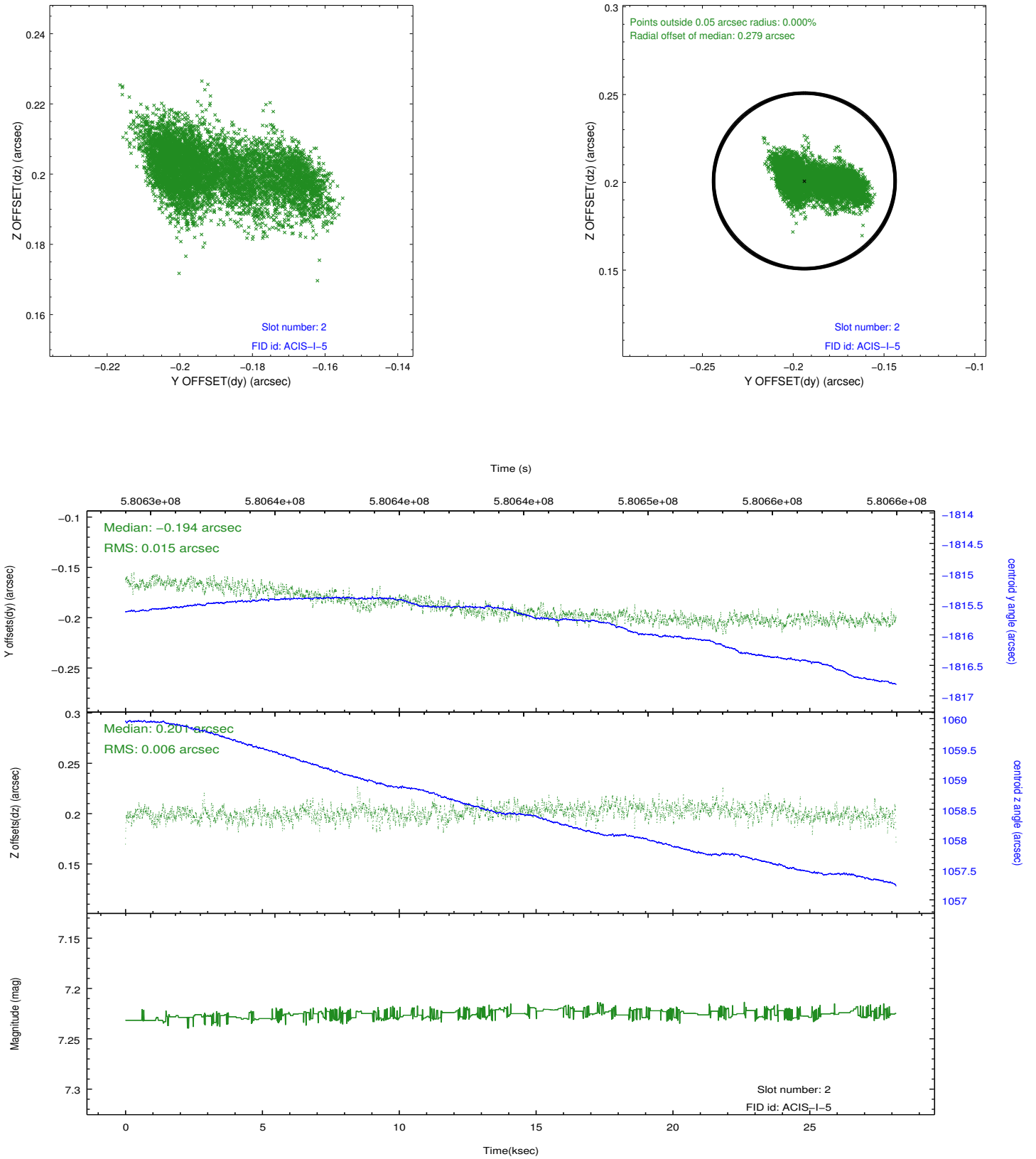
2.5.1 Slot 0



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)	2016.05.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	28.036359185696

A.2 Comments