

V&V Reference Report

L2 ASCDS Version : 10.2.4

Observation 16545 - L2 Version 1
Chandra X-Ray Center

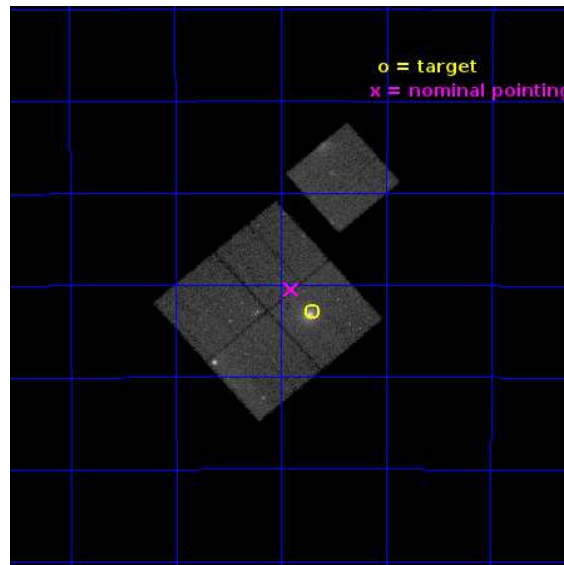
L2 Processing Date : Aug 21 2014

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1 Front

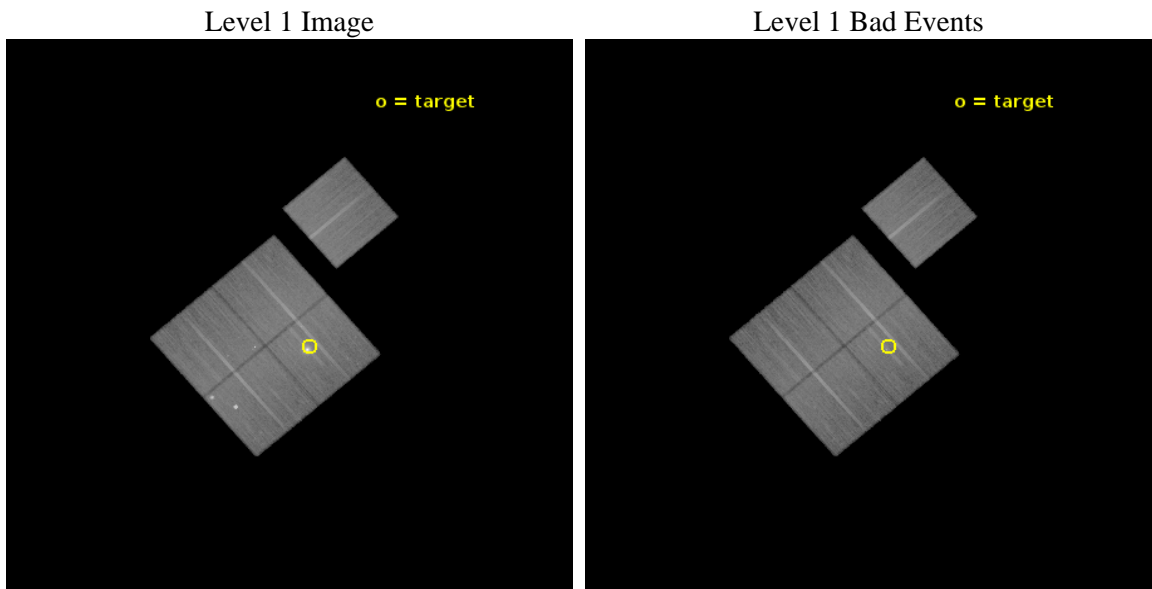
seq_num	801436	Sequence number
obs_id	16545	Observation id
title	Searching for Evidence of Current and Past Feedback Episodes in the Phoenix Cluster	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	SPT-CLJ2344-4243	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	356.175	Observer's specified target RA [deg]
dec_targ	-42.714611	Observer's specified target Dec [deg]
ra_nom	356.22534831233	Nominal RA [deg]
dec_nom	-42.674596470835	Nominal Dec [deg]
roll_nom	49.242823584866	Nominal Roll [deg]
revision	1	Processing version of data
ontime	60084.200462103	Sum of GTIs [s]
livetime	59299.156149721	Livetime [s]
ontime0	60081.059401691	Sum of GTIs [s]
ontime1	60077.918451011	Sum of GTIs [s]
ontime2	60077.918401361	Sum of GTIs [s]
ontime3	60084.200462103	Sum of GTIs [s]
ontime6	60077.918291092	Sum of GTIs [s]
l2events	197334	Number of level 2 events



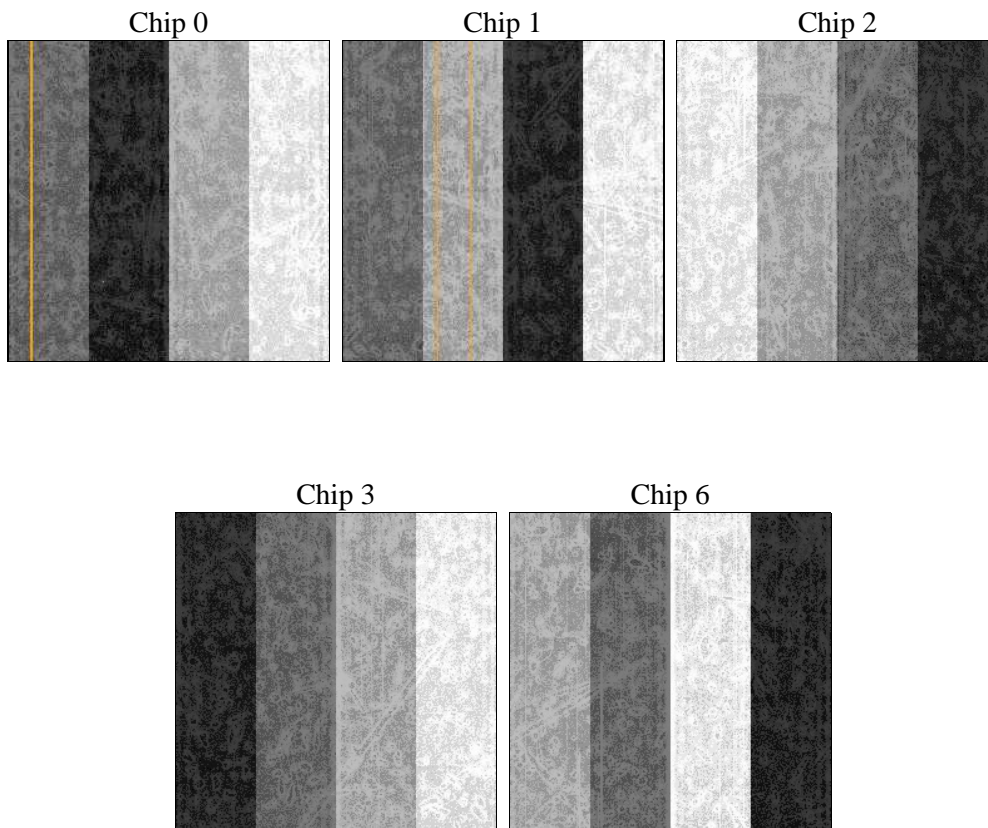
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	60000.000000	[s] Scheduled observation exposure time
ascdsver	10.2.4	Processing system revision	ontime	60084.200462103	Sum of GTIs [s]
caldbver	4.6.2	 	ontime0	60081.059401691	Sum of GTIs [s]
date	2014-08-21T15:13:40	Date and time of file creation	ontime1	60077.918451011	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	60077.918401361	Sum of GTIs [s]
			ontime3	60084.200462103	Sum of GTIs [s]
			ontime6	60077.918291092	Sum of GTIs [s]
			l1events	1514253	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	279273	298693	300181	331768	304338
rejected events	240372	246108	266304	258616	266590
rejected %	86%	82%	88%	77%	87%

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	14803	26347	11755	43096	13228
	5%	8%	3%	12%	4%
grade 1 events	184	229	172	400	158
	0%	0%	0%	0%	0%
grade 2 events	9188	9657	8464	11915	8384
	3%	3%	2%	3%	2%
grade 3 events	3839	3905	3415	4896	3856
	1%	1%	1%	1%	1%
grade 4 events	3569	4011	3519	4899	3758
	1%	1%	1%	1%	1%
grade 5 events	14483	15393	13290	16677	15685
	5%	5%	4%	5%	5%
grade 6 events	7506	8676	6729	8352	8528
	2%	2%	2%	2%	2%
grade 7 events	225701	230475	252837	241533	250741
	80%	77%	84%	72%	82%

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	356.218463	356.2253483123313	CCD I2 on	Y	Y
[deg] Pointing Dec	-42.701732	-42.67459647083489	CCD I3 on	Y	Y
[deg] Pointing Roll	49.029472	49.2428235848665	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	-225.840463	-225.8458576473255	CCD S3 on	N	N
[mm] SIM translation stage offset	-7.752	-7.746595355604228	CCD S4 on	N	N
[s] Observation start time (MET)	524918726.184000	524917775.5602	CCD S5 on	N	N
Observation start date	2014-08-20T10:44:19	2014-08-20T10:29:35	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	524978726.184000	524979267.87611	On-chip summing requested	N	N
Observation end date	2014-08-21T03:24:19	2014-08-21T03:34:27	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

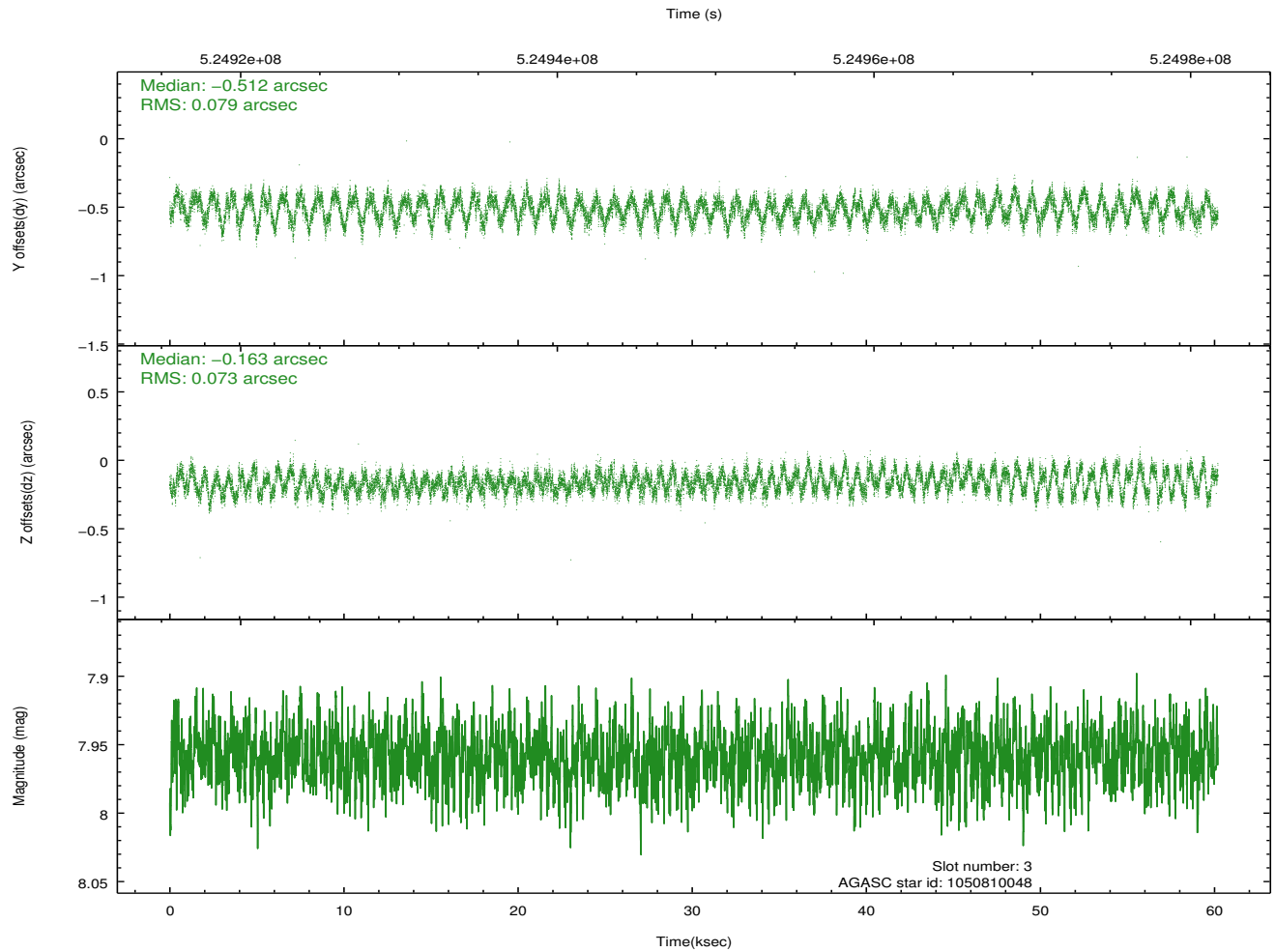
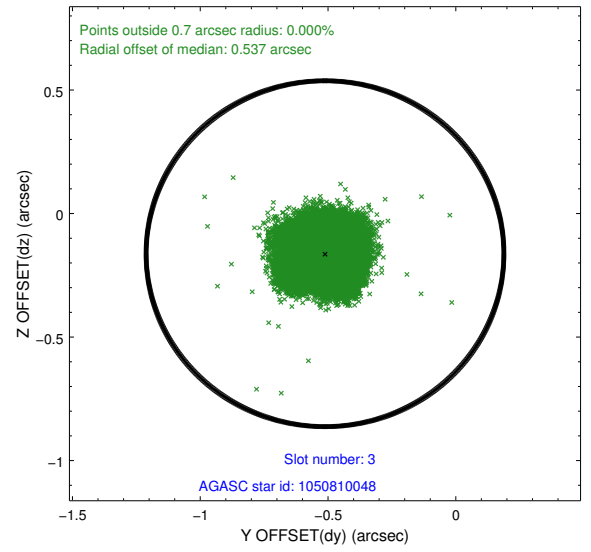
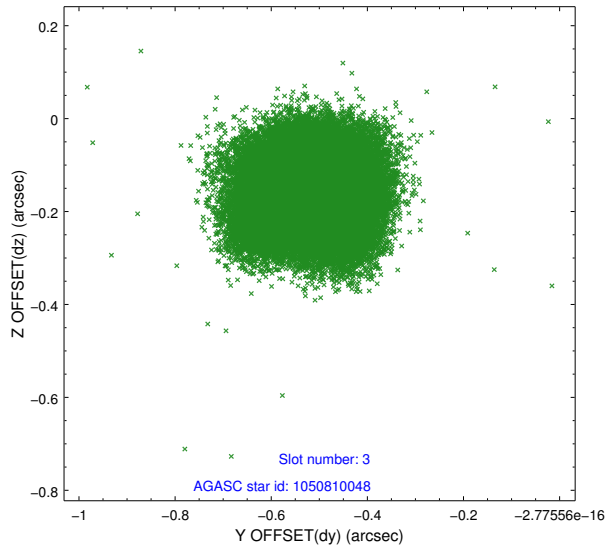
2.3 Aspect

Slot Statistics

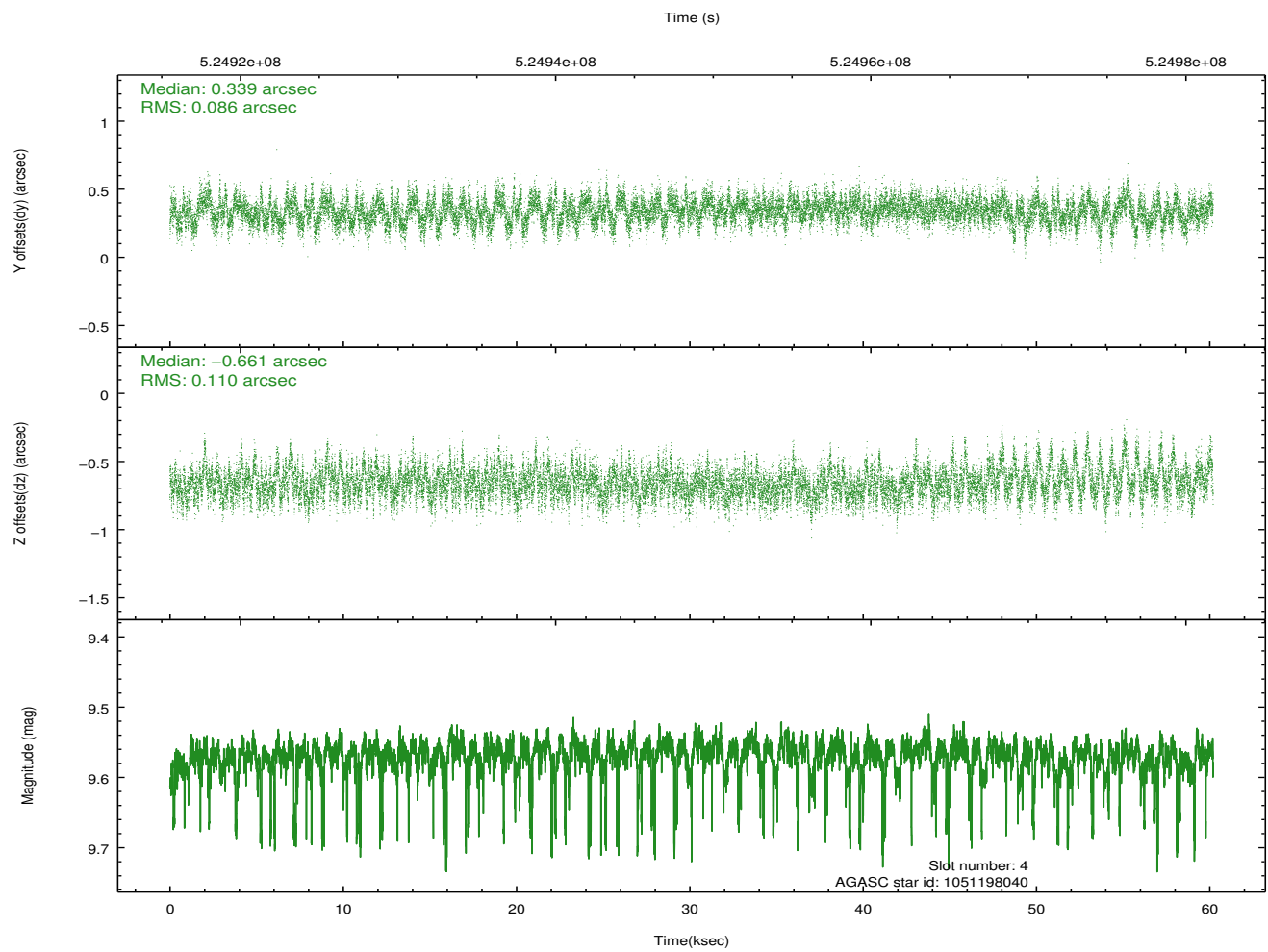
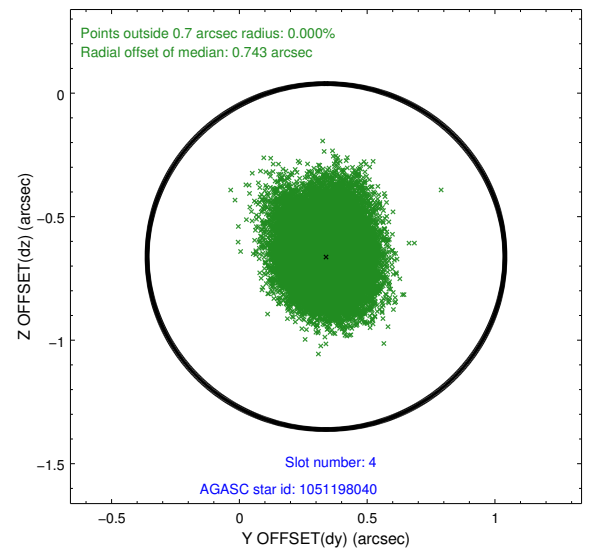
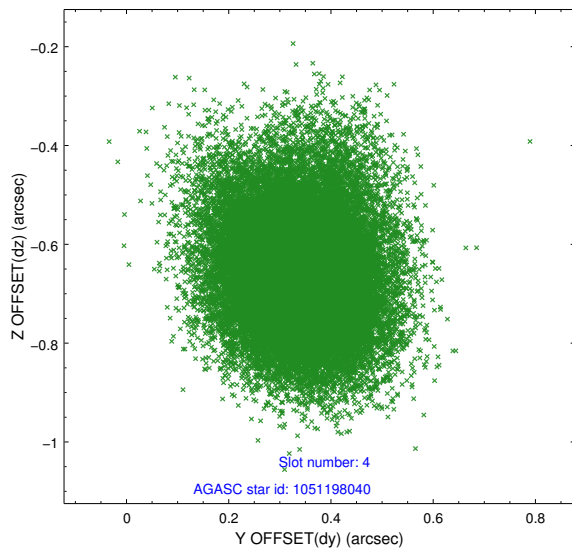
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.14	14683	0.212	-0.031	0.023	0.054	0.000000	0.000000	913.86	-1003.78
1	FID	ACIS-I-2	7.08	14683	-0.291	-0.051	0.021	0.039	0.000000	0.000000	-781.15	-1009.10
2	FID	ACIS-I-6	7.14	14685	-0.010	0.149	0.016	0.023	0.000000	0.000000	379.46	1538.26
3	GUIDE	1050810048	7.96	29364	-0.512	-0.163	0.117	0.173	356.469230	-42.341180	1416.60	346.65
4	GUIDE	1051198040	9.57	29347	0.339	-0.661	0.146	0.245	355.390308	-42.851948	-1849.07	1287.92
5	GUIDE	1051204328	9.89	28354	0.245	0.308	0.205	0.356	355.958163	-43.245581	-1924.36	-769.85
6	GUIDE	1051205696	8.13	29364	-0.182	0.212	0.105	0.165	356.065268	-43.024313	-1140.75	-456.68
7	GUIDE	1051205736	9.59	29334	0.115	0.324	0.209	0.354	356.603876	-43.253982	-839.41	-2068.18

2.4 Star Slots

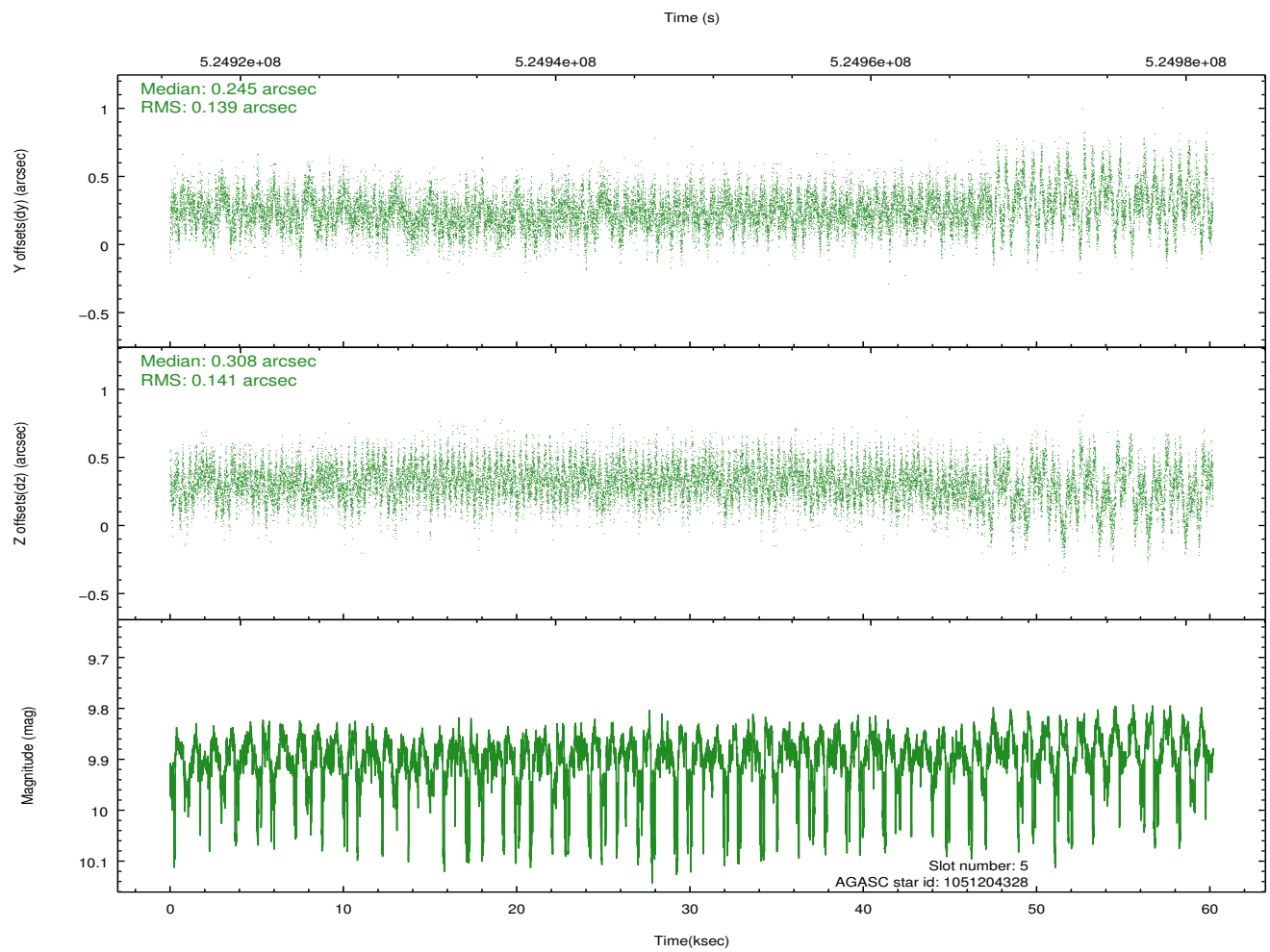
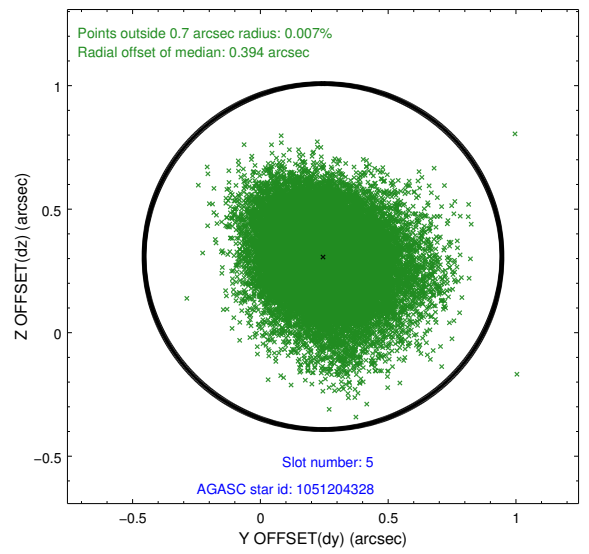
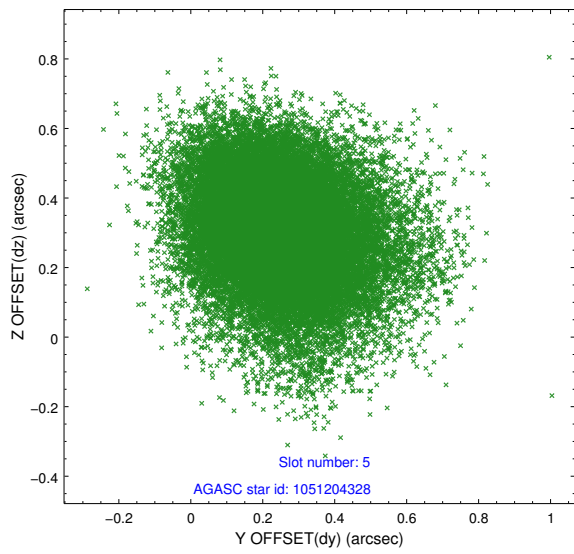
2.4.1 Slot 3



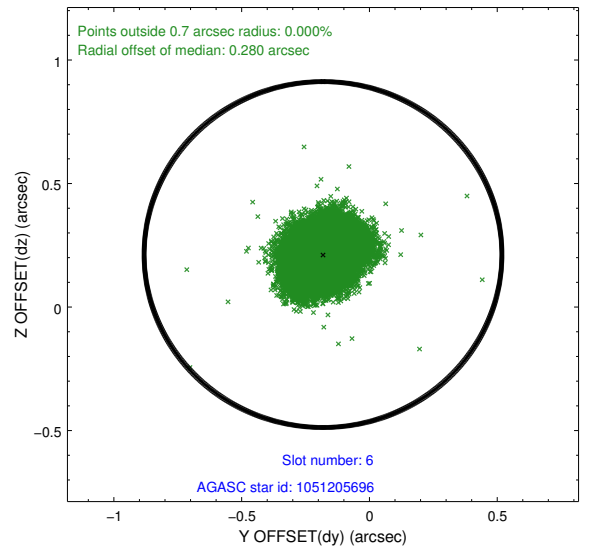
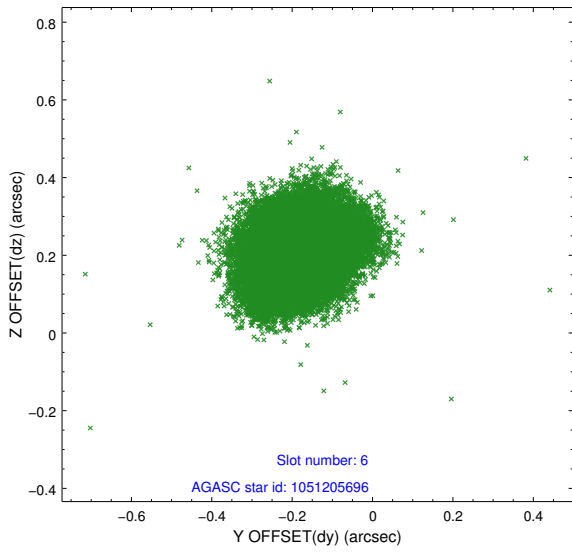
2.4.2 Slot 4



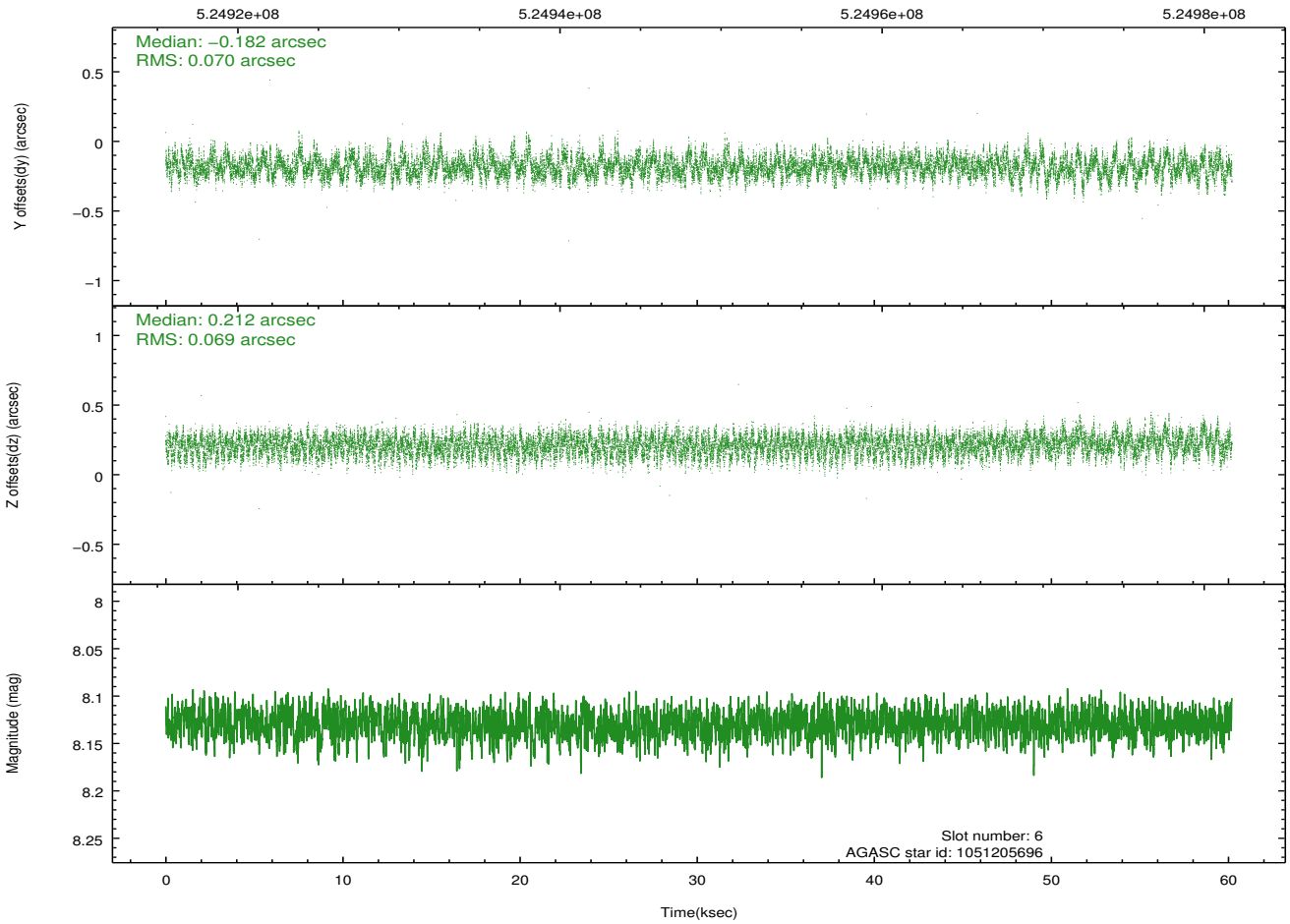
2.4.3 Slot 5



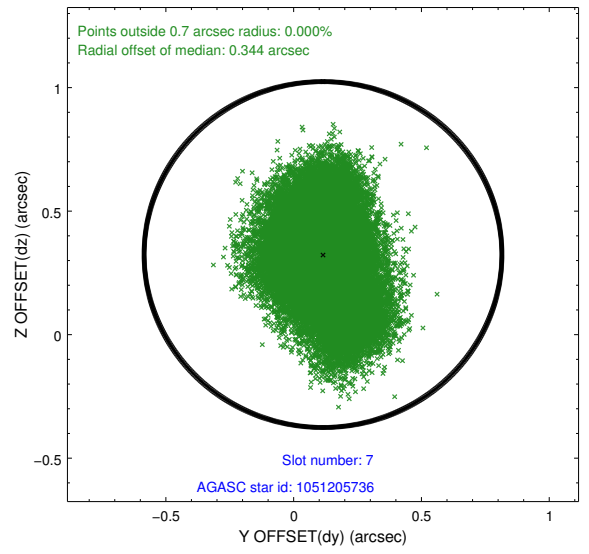
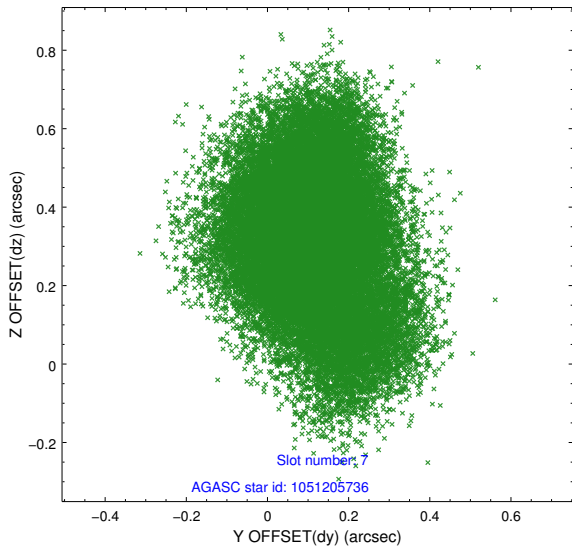
2.4.4 Slot 6



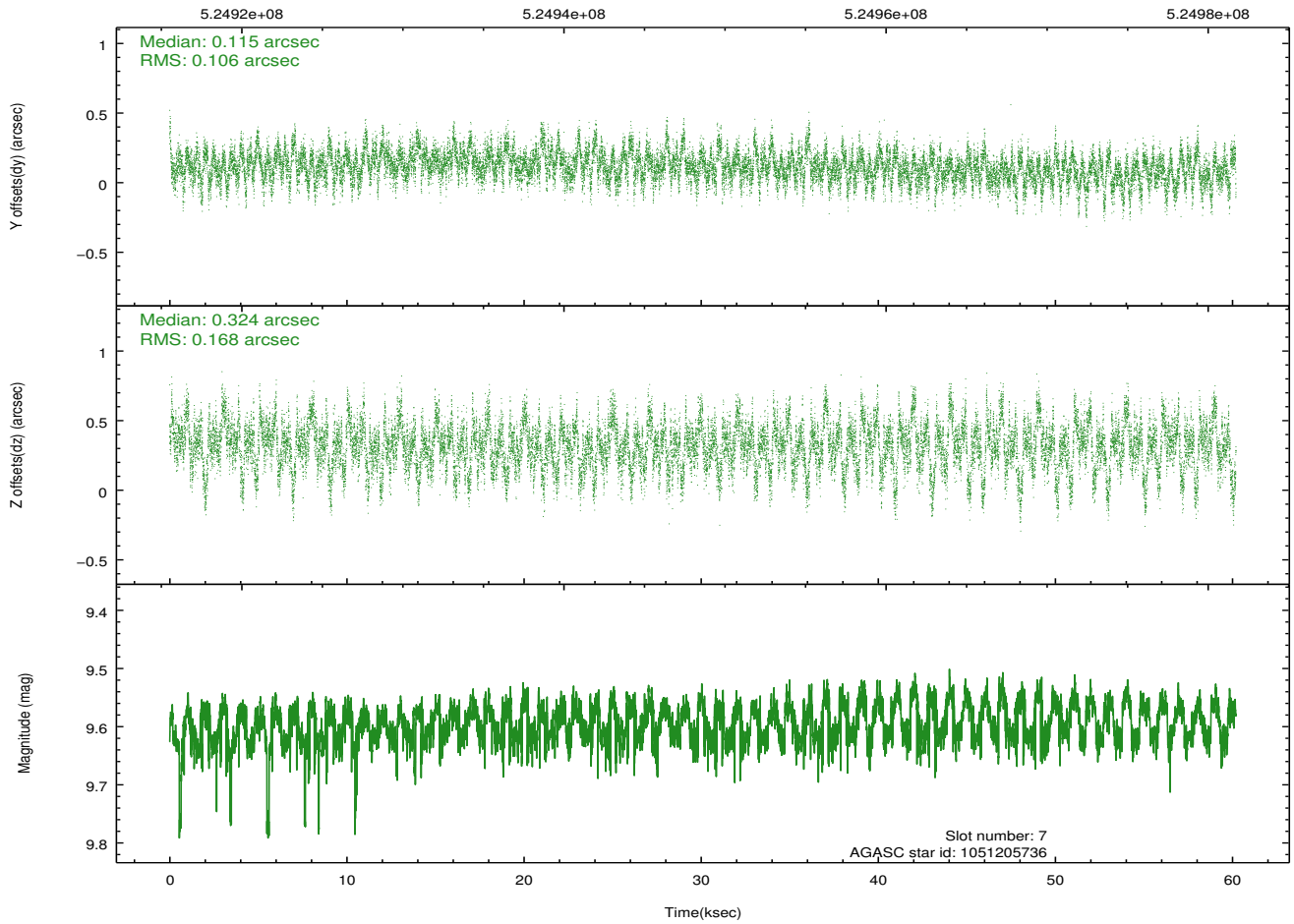
Time (s)



2.4.5 Slot 7

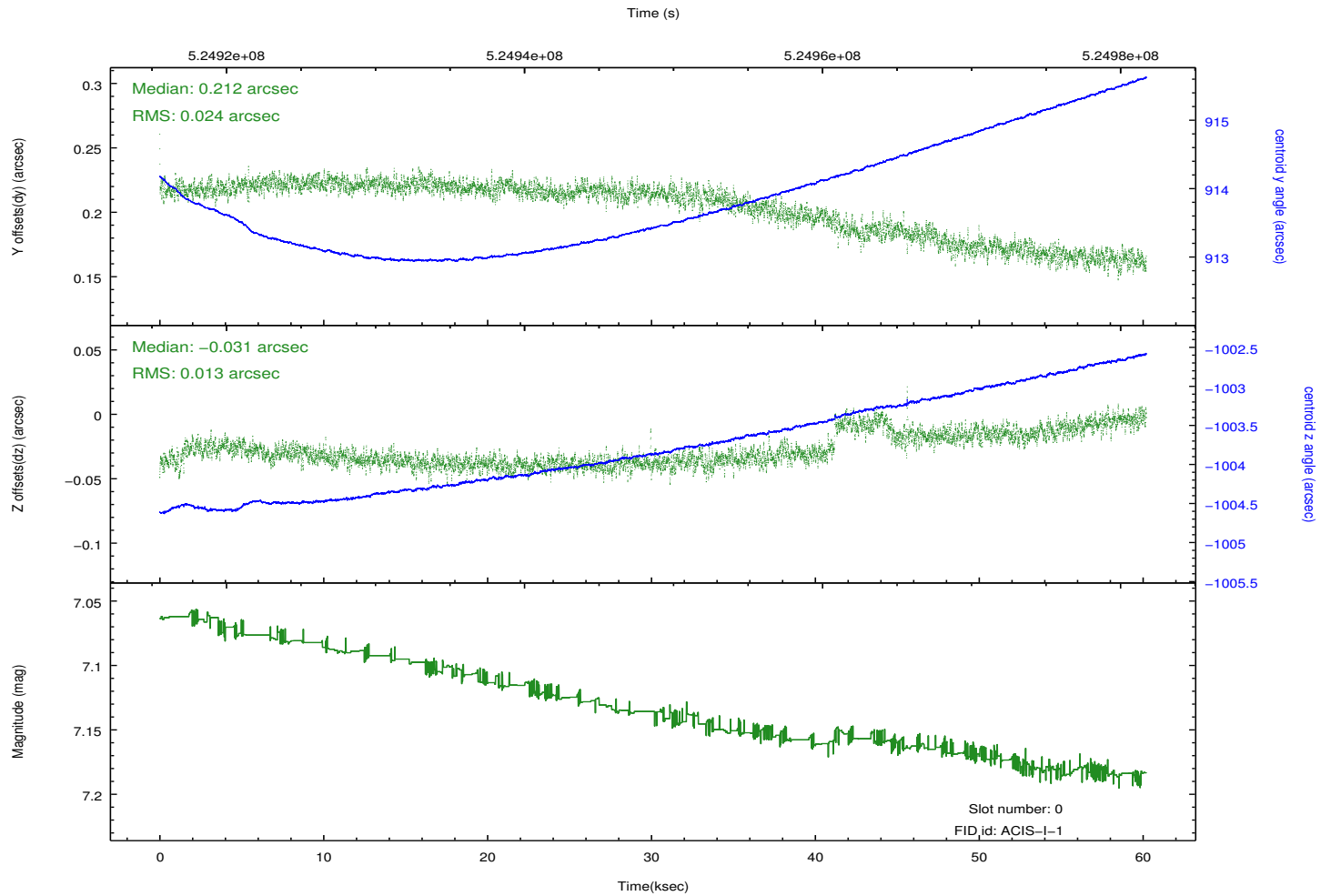
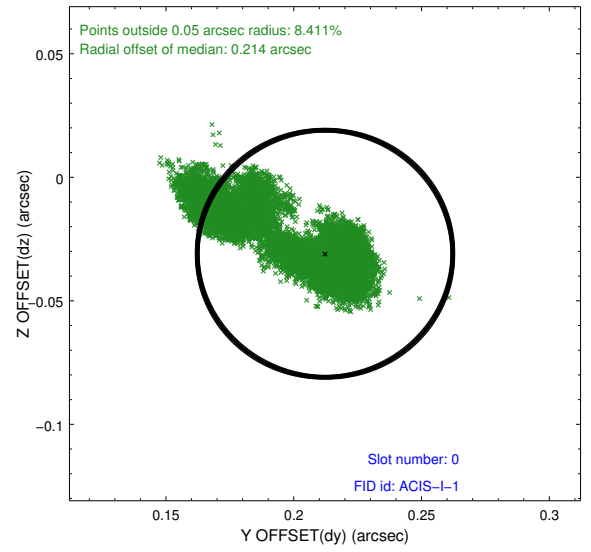
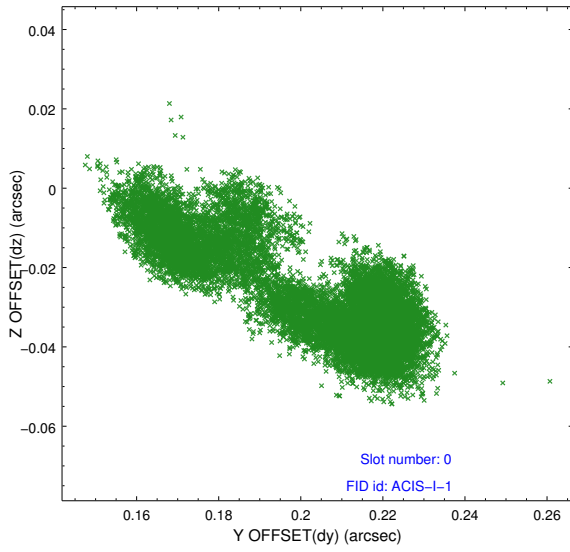


Time (s)

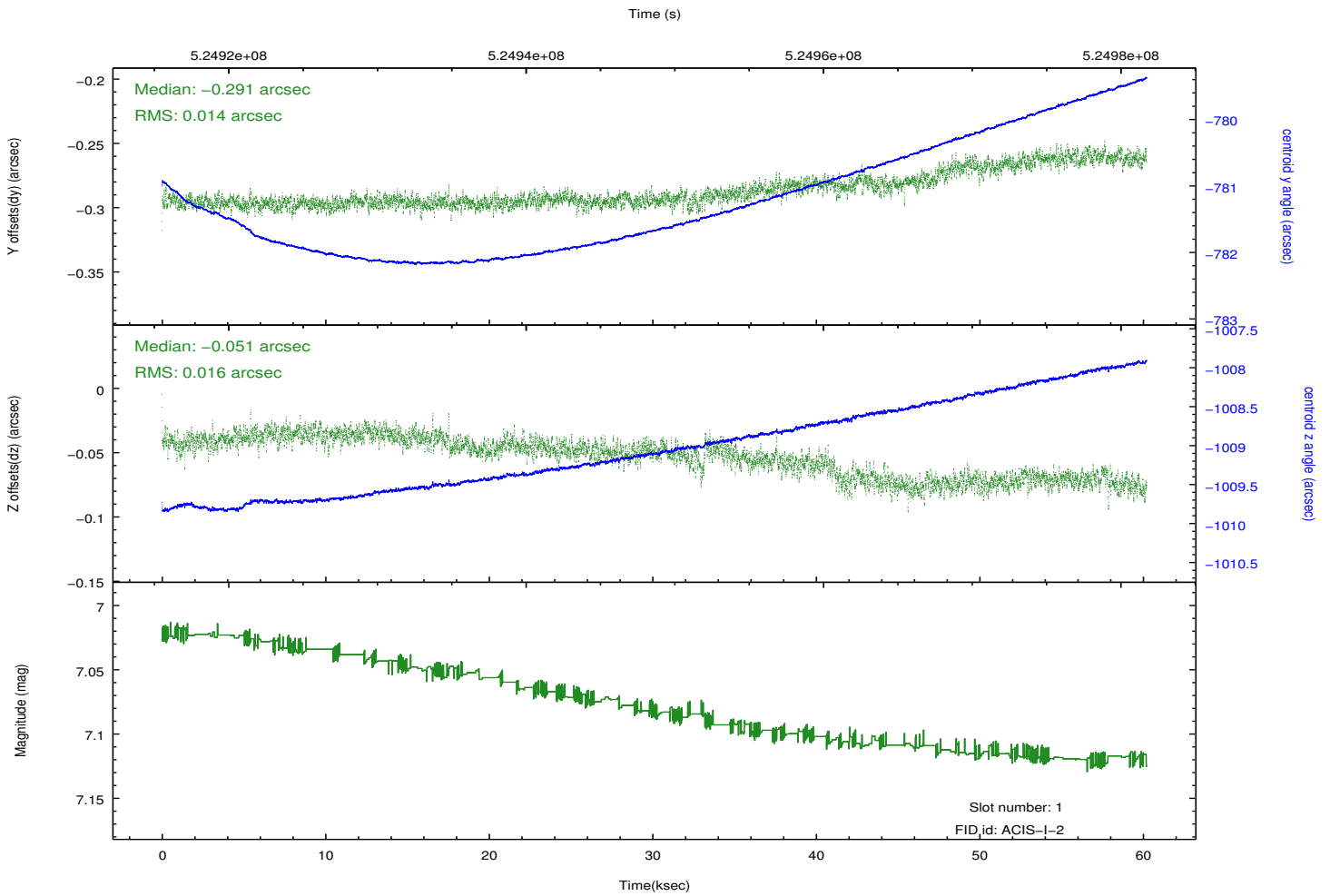
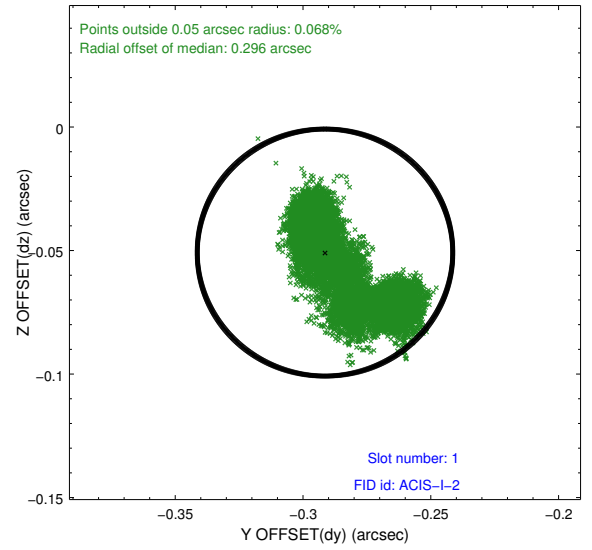
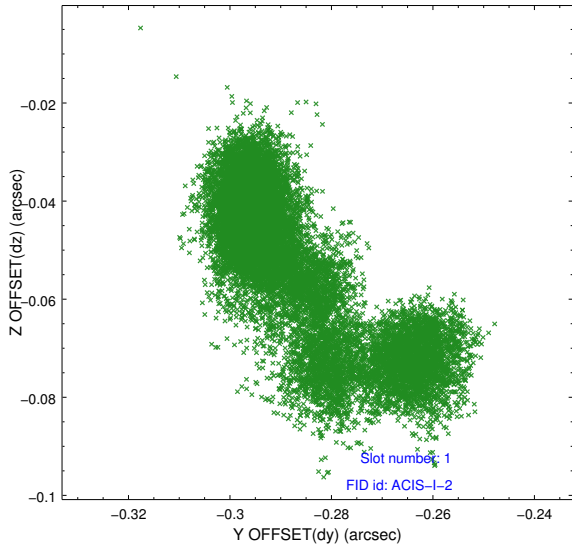


2.5 FID Slots

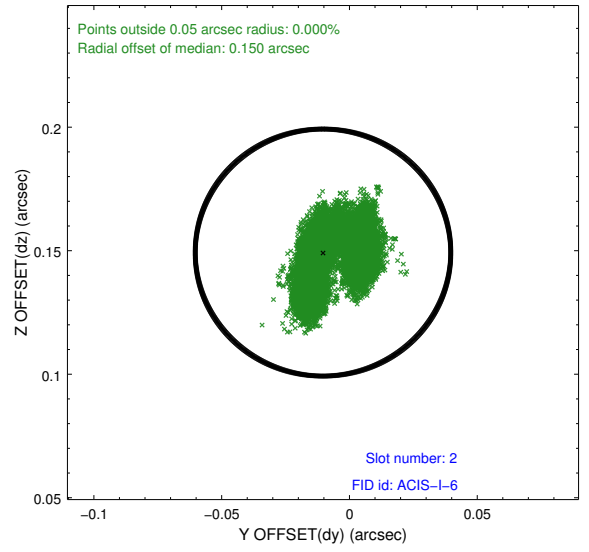
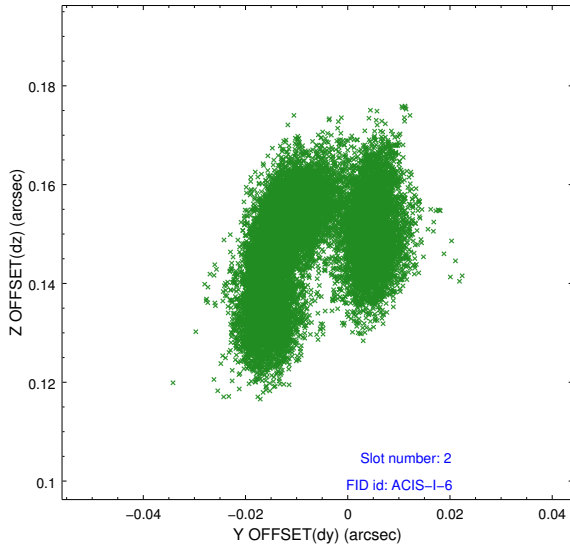
2.5.1 Slot 0



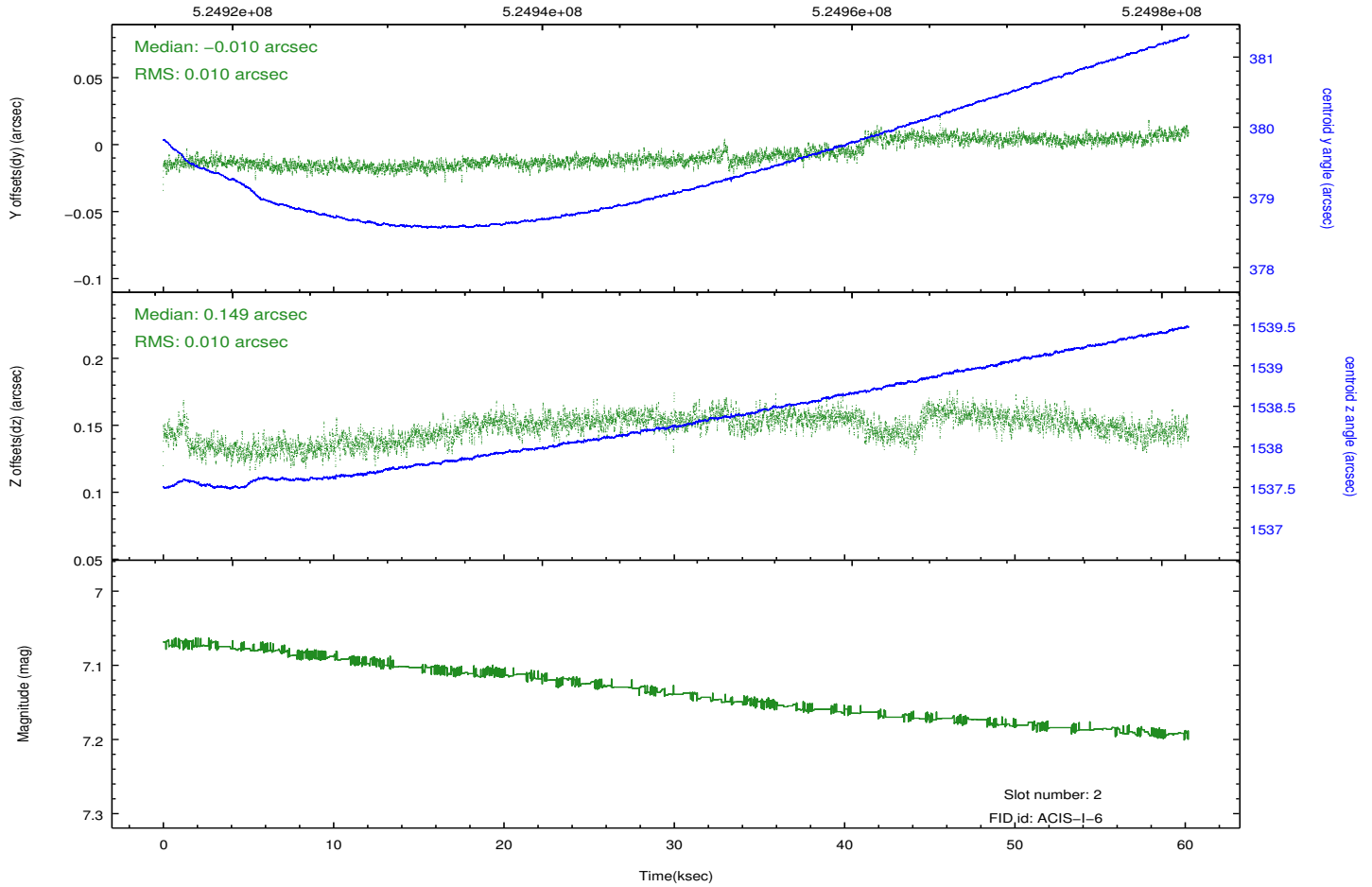
2.5.2 Slot 1



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2014.08.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	60.084200462103

A.2 Comments