

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 12019 - L2 Version 2
Chandra X-Ray Center

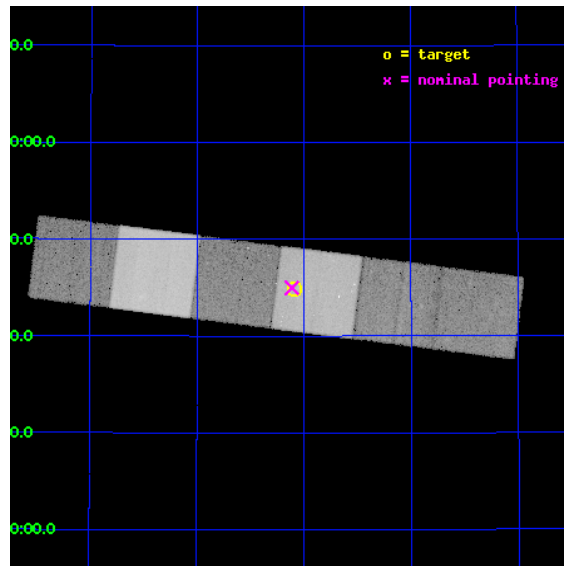
L2 Processing Date : Jun 16 2012

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1 Front

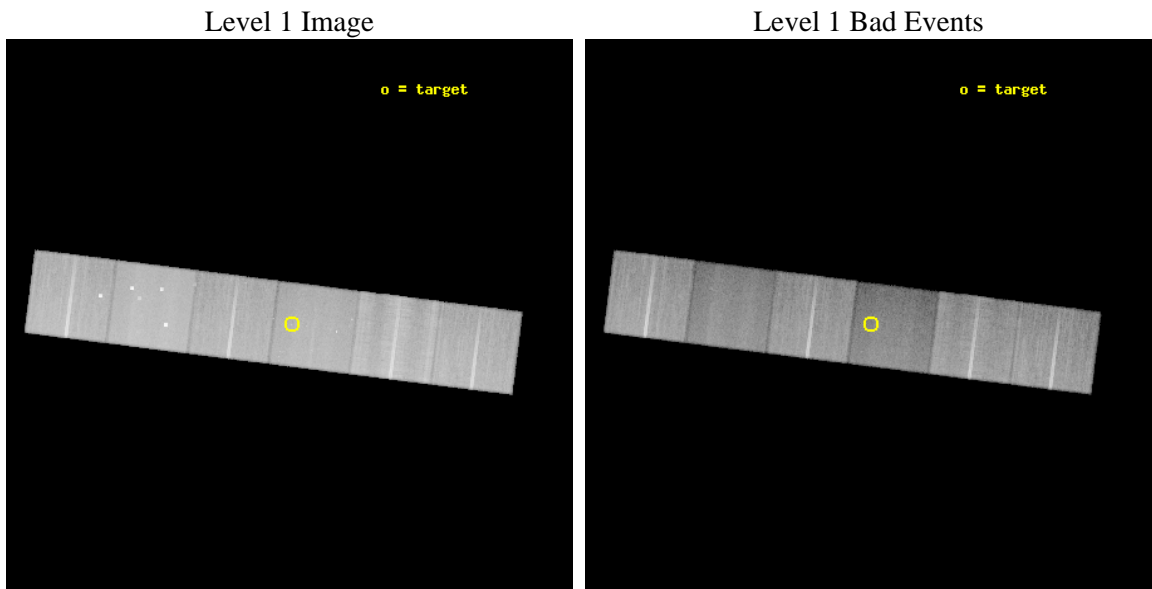
seq_num	701924	Sequence number
obs_id	12019	Observation id
title	The Circumnuclear X-Ray Environments of CSS Radio Sources	Proposal
observer	Dr Daniel Evans	Principal investigator
object	3C 299	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	215.273333	Observer's specified target RA [deg]
dec_targ	41.746833	Observer's specified target Dec [deg]
ra_nom	215.27839199467	Nominal RA [deg]
dec_nom	41.749856794962	Nominal Dec [deg]
roll_nom	7.153254691433	Nominal Roll [deg]
revision	2	Processing version of data
ontime	40038.399850905	Sum of GTIs [s]
livetime	39531.409523763	Livetime [s]
ontime4	40038.399850905	Sum of GTIs [s]
ontime5	40038.399850905	Sum of GTIs [s]
ontime6	40038.399850905	Sum of GTIs [s]
ontime7	40038.399850905	Sum of GTIs [s]
ontime8	40035.158880532	Sum of GTIs [s]
ontime9	40038.399850905	Sum of GTIs [s]
l2events	476272	Number of level 2 events



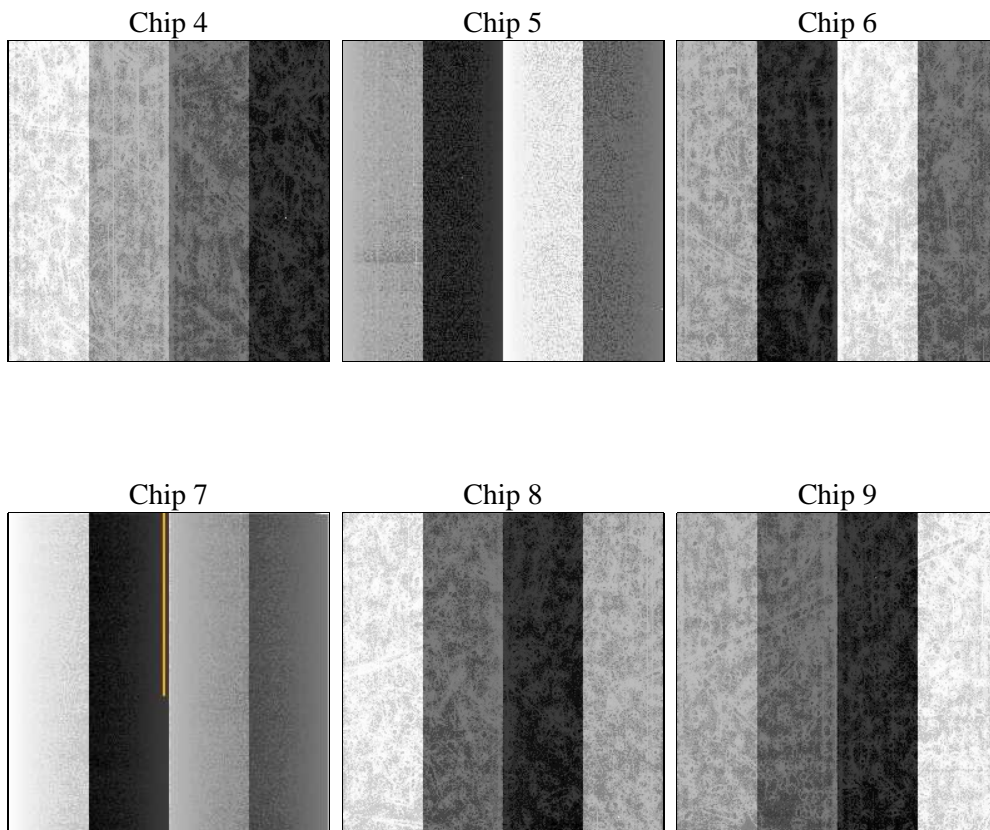
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	40000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	40038.399850905	Sum of GTIs [s]
caldbver	4.4.10	 	ontime4	40038.399850905	Sum of GTIs [s]
date	2012-06-16T05:31:42	Date and time of file creation	ontime5	40038.399850905	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	40038.399850905	Sum of GTIs [s]
			ontime7	40038.399850905	Sum of GTIs [s]
			ontime8	40035.158880532	Sum of GTIs [s]
			ontime9	40038.399850905	Sum of GTIs [s]
			l1events	2173827	Number of level 1 events

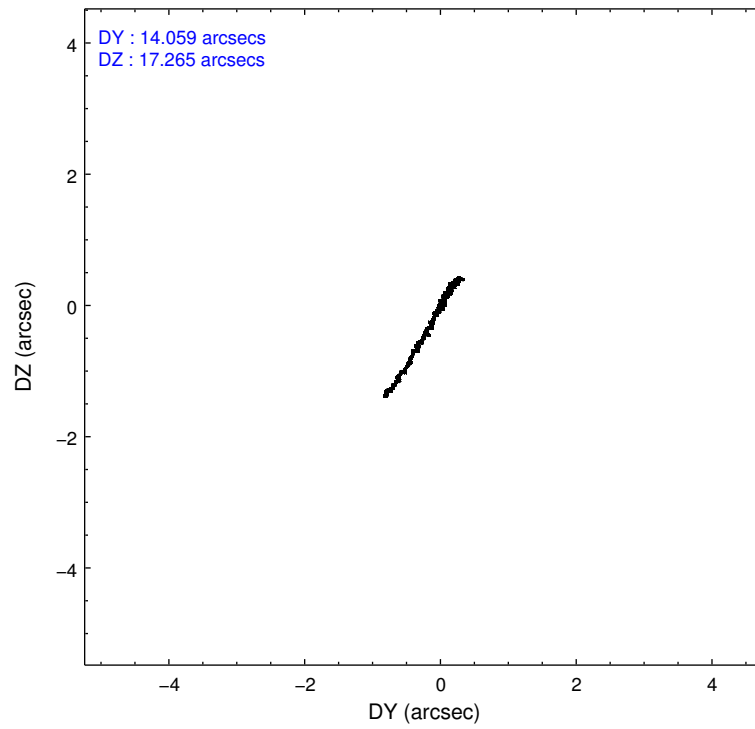
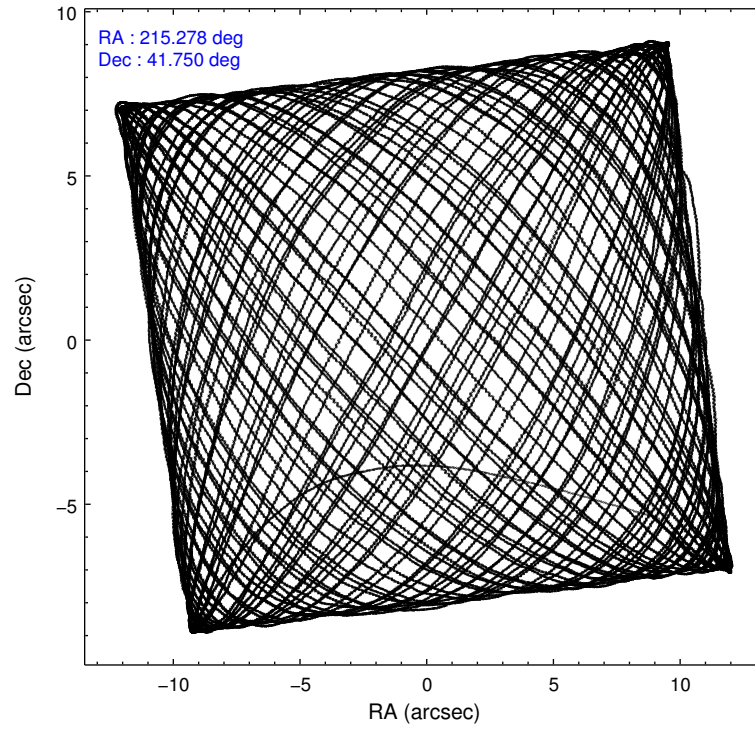
2.1.4 Events

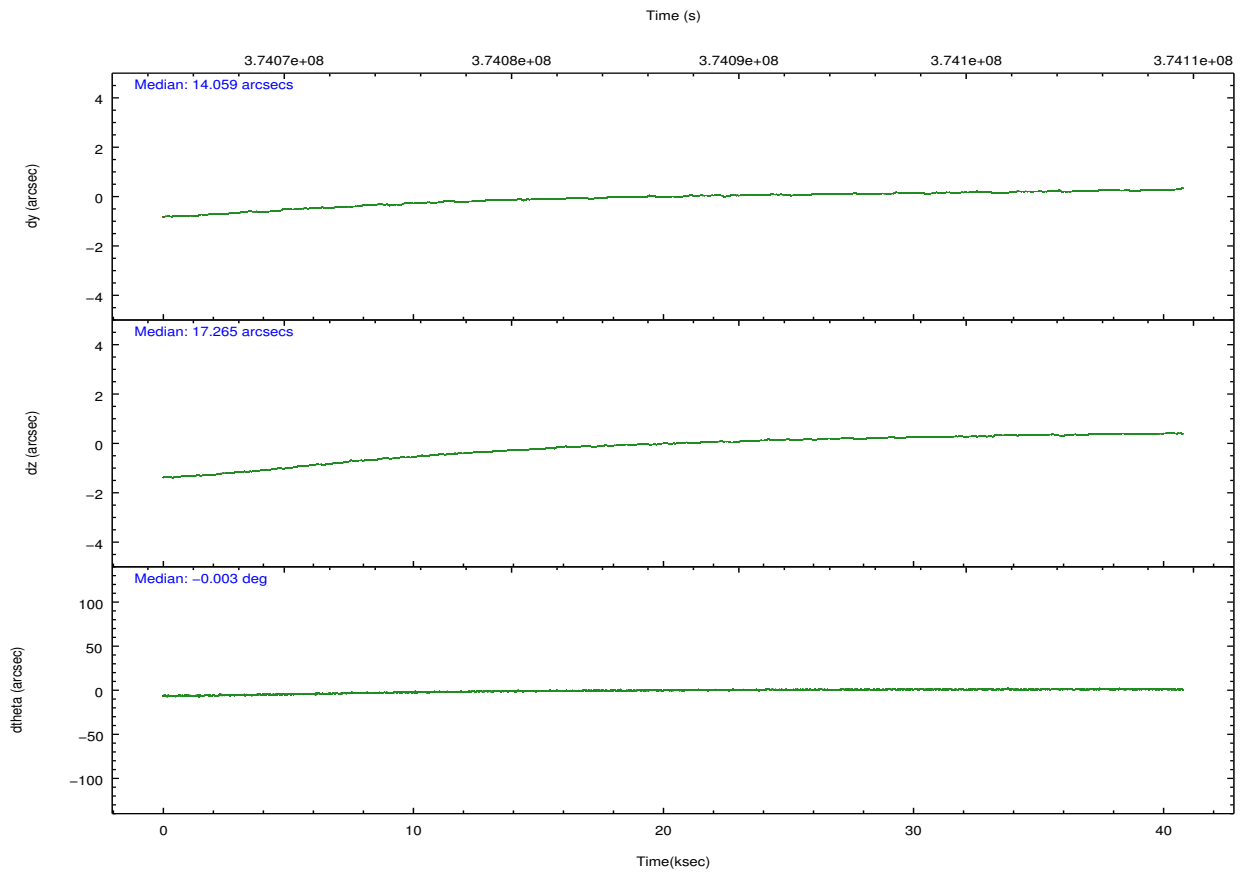
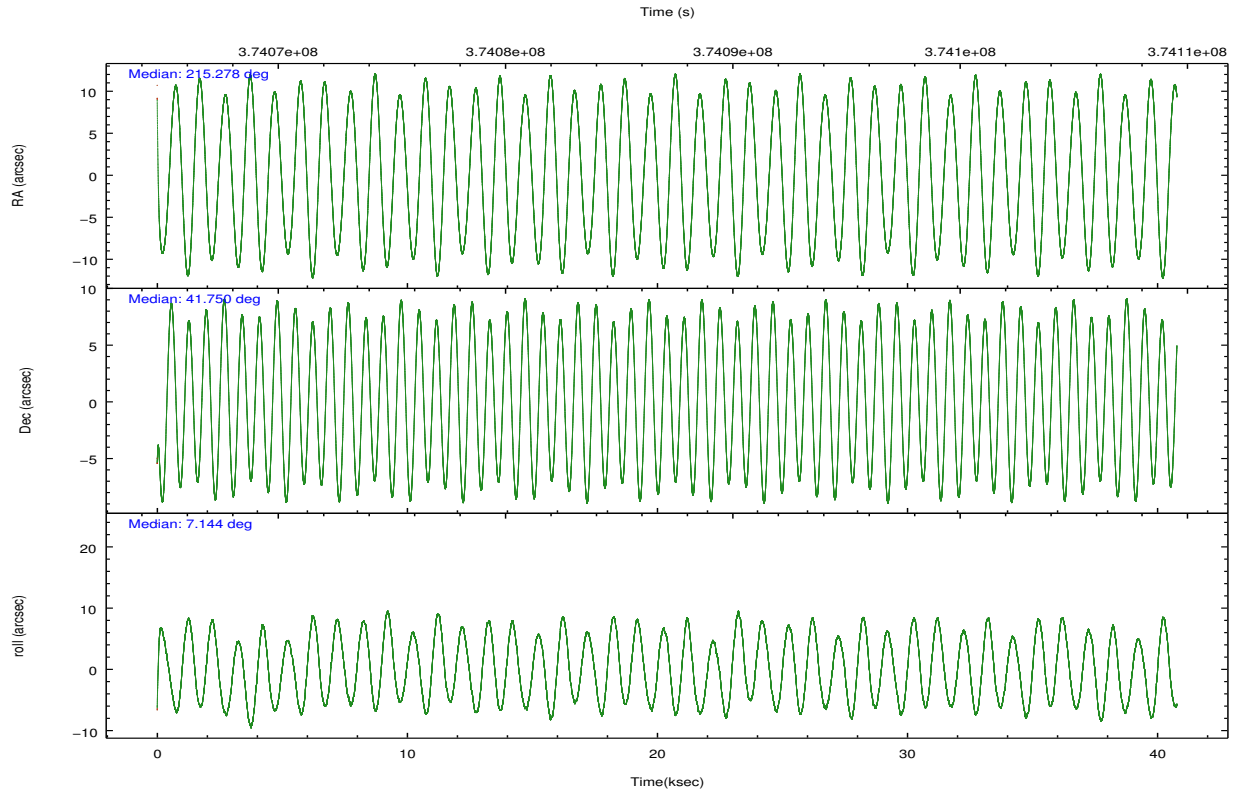
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	378309	425359	324446	318071	407867	319775	grade 0 events	18139	30016	12205	16395	29363	12092
rejected events	338173	196348	290816	160878	301820	285860		4%	7%	3%	5%	7%	3%
rejected %	89%	46%	89%	50%	73%	89%	grade 1 events	410	1066	160	481	380	178
								0%	0%	0%	0%	0%	0%
							grade 2 events	8944	68728	7637	33886	25457	7603
								2%	16%	2%	10%	6%	2%
							grade 3 events	3764	9532	3518	14433	11970	3841
								0%	2%	1%	4%	2%	1%
							grade 4 events	3537	9250	3454	14362	10671	3618
								0%	2%	1%	4%	2%	1%
							grade 5 events	11662	33752	11393	33811	17644	12916
								3%	7%	3%	10%	4%	4%
							grade 6 events	5753	111504	6819	78131	28593	6763
								1%	26%	2%	24%	7%	2%
							grade 7 events	326100	161511	279260	126572	283789	272764
								86%	37%	86%	39%	69%	85%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	215.249498	215.2783919946653	CCD I2 on	N	N
[deg] Pointing Dec	41.733056	41.74985679496184	CCD I3 on	N	N
[deg] Pointing Roll	7.015867	7.153254691433004	CCD S0 on	O1	Y
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	374067494.184000	374066046.87826	CCD S5 on	O2	Y
Observation start date	2009-11-08T11:37:08	2009-11-08T11:14:06	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	374107494.184000	374108380.9179	On-chip summing requested	N	N
Observation end date	2009-11-08T22:43:48	2009-11-08T22:59:40	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



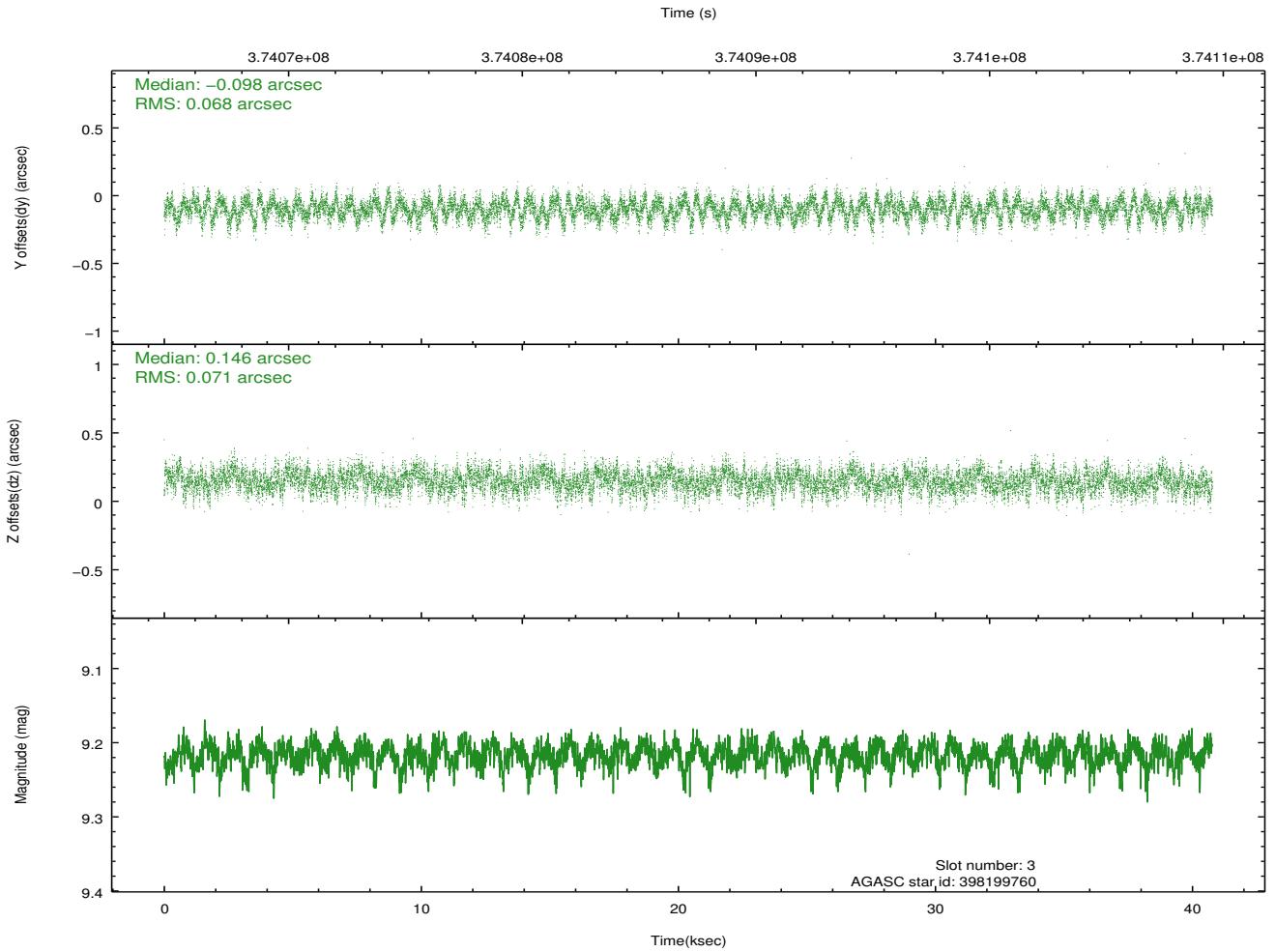
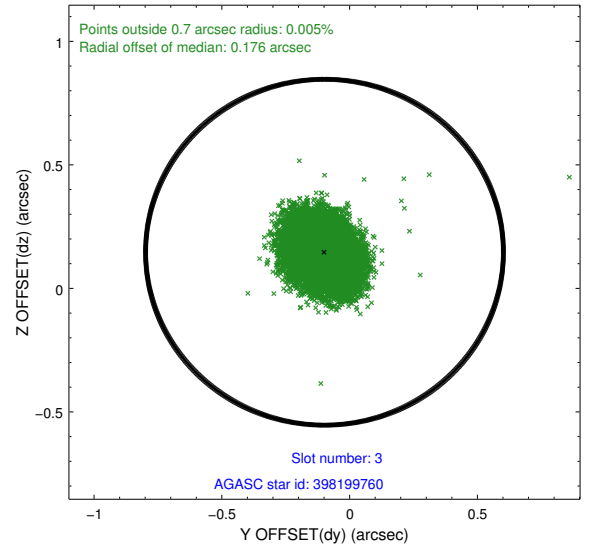
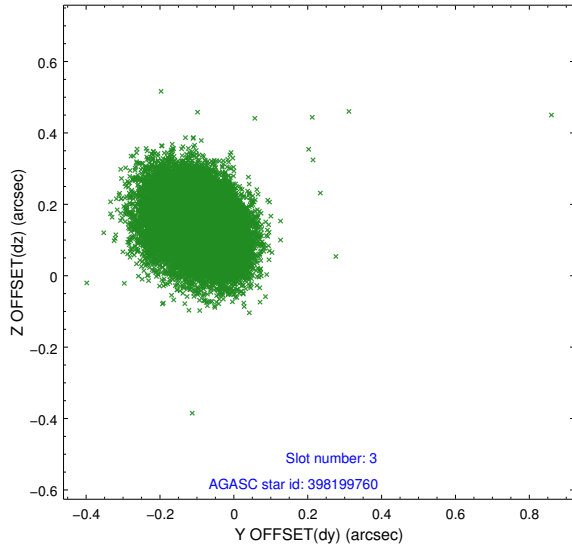


Slot Statistics

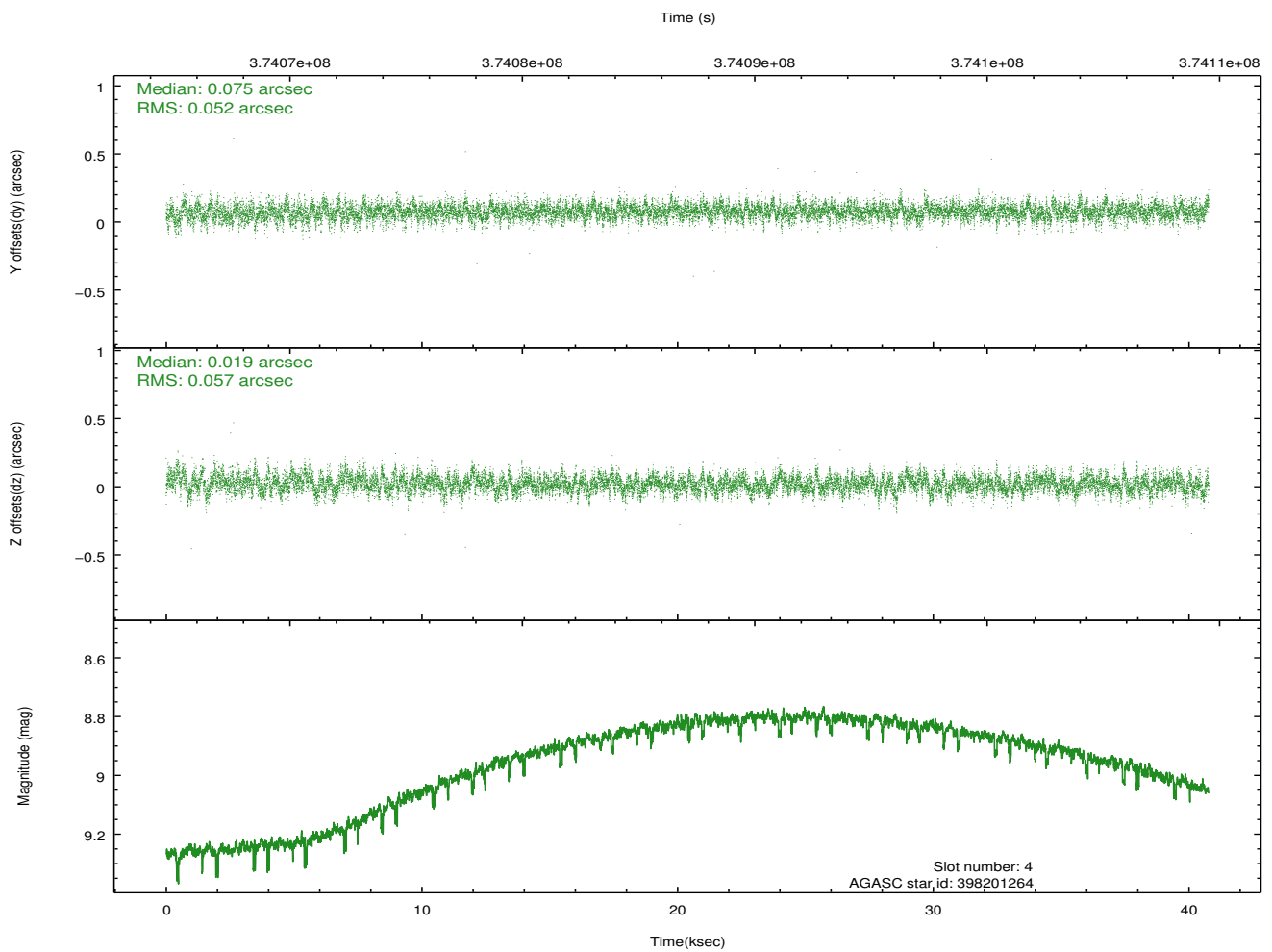
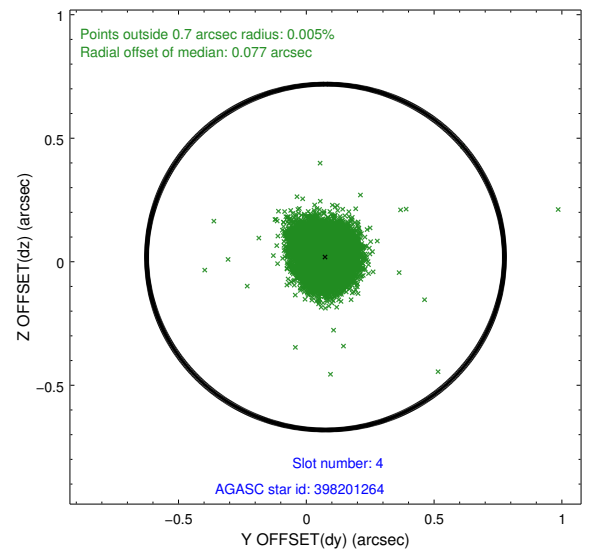
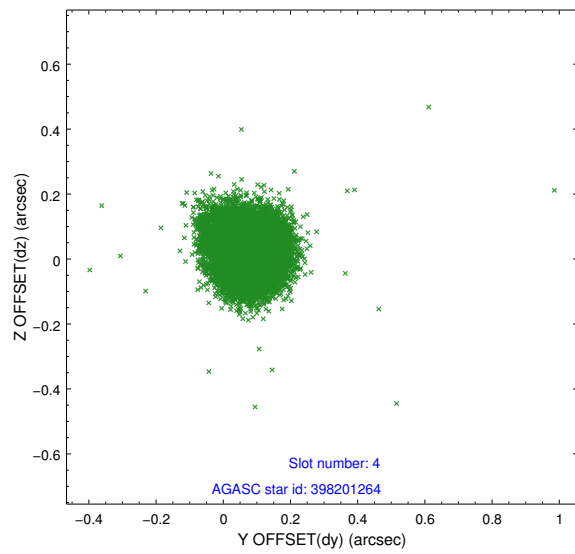
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.86	9947	-0.032	-0.021	0.014	0.032	0.000000	0.000000	-766.97	-1738.53
1	FID	ACIS-S-4	6.95	9947	0.151	0.020	0.010	0.017	0.000000	0.000000	2146.51	169.94
2	FID	ACIS-S-5	6.97	9946	-0.150	0.009	0.011	0.032	0.000000	0.000000	-1819.89	163.66
3	GUIDE	398199760	9.22	19869	-0.098	0.146	0.105	0.169	215.385688	41.175946	121.89	-2035.03
4	GUIDE	398201264	8.92	19851	0.075	0.019	0.080	0.133	215.573818	41.450598	745.17	-1114.29
5	GUIDE	398201656	6.95	19891	0.050	-0.125	0.072	0.113	214.738225	42.004935	-1236.94	1141.74
6	GUIDE	398203384	8.63	19883	0.208	-0.128	0.080	0.136	214.300226	42.208206	-2301.83	2020.91
7	GUIDE	398199408	8.98	19870	-0.235	0.086	0.080	0.131	216.068323	41.729041	2182.90	-271.82

2.4 Star Slots

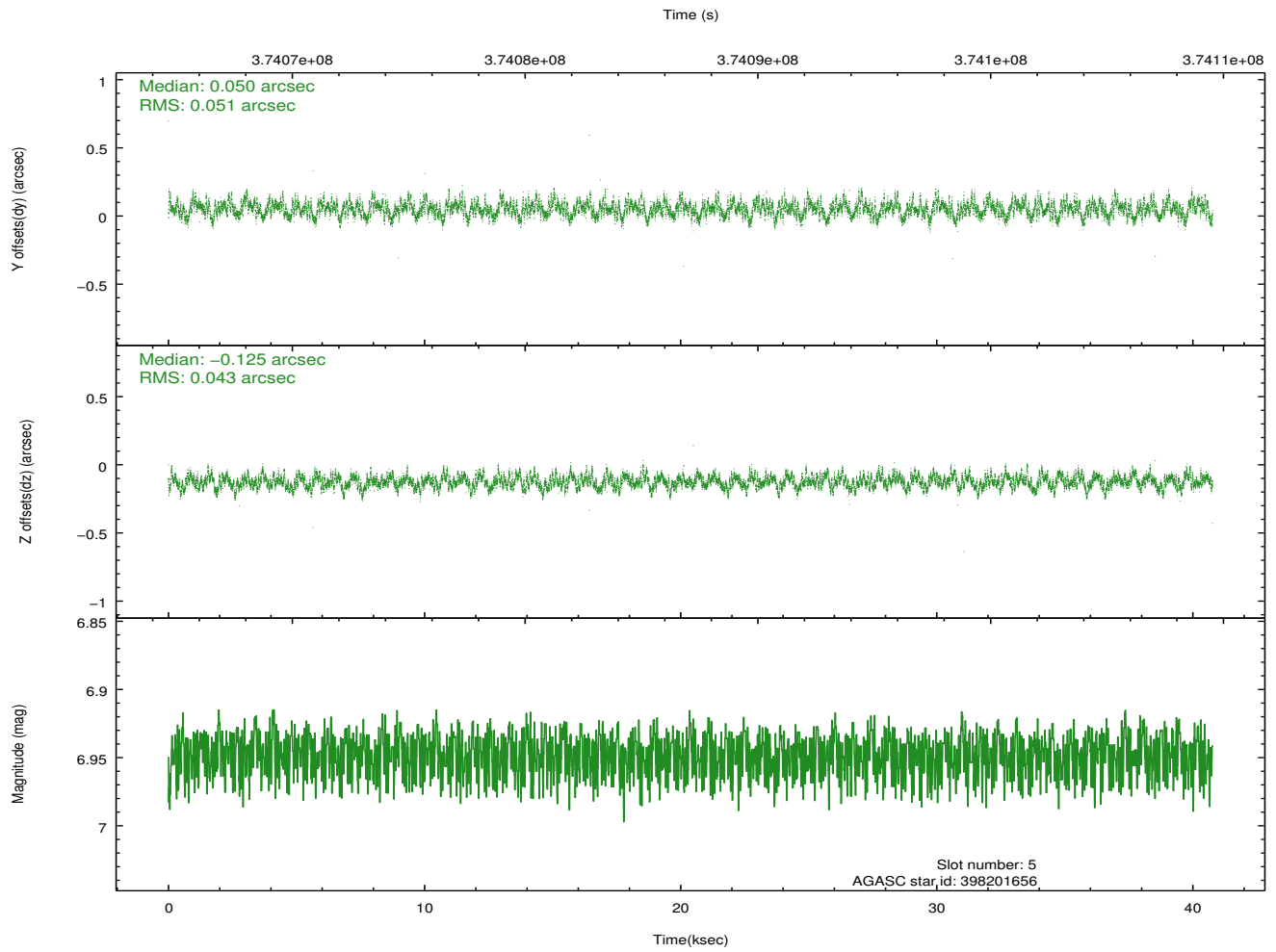
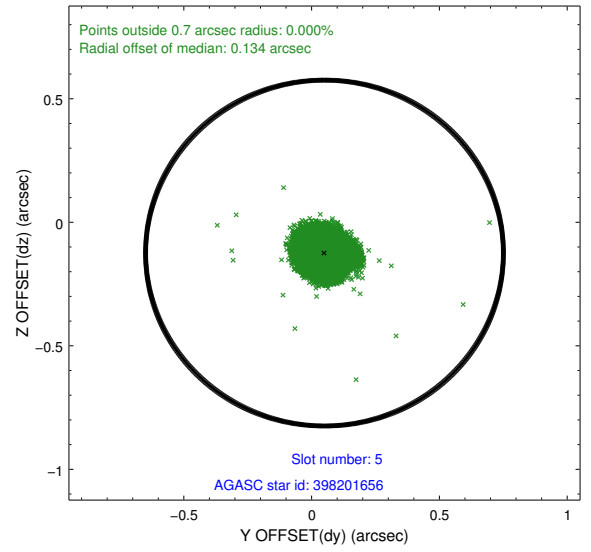
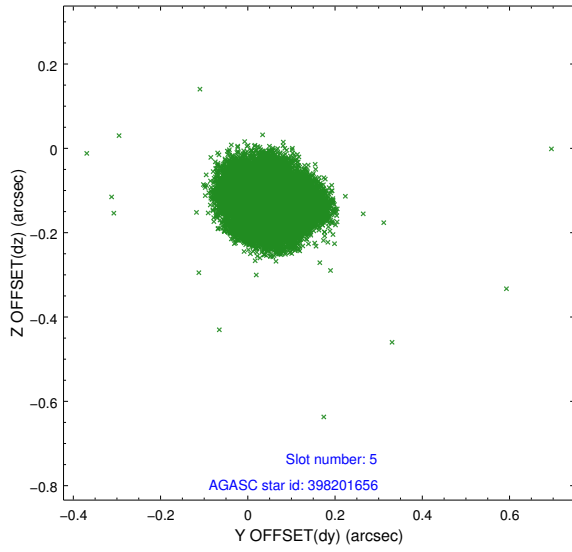
2.4.1 Slot 3



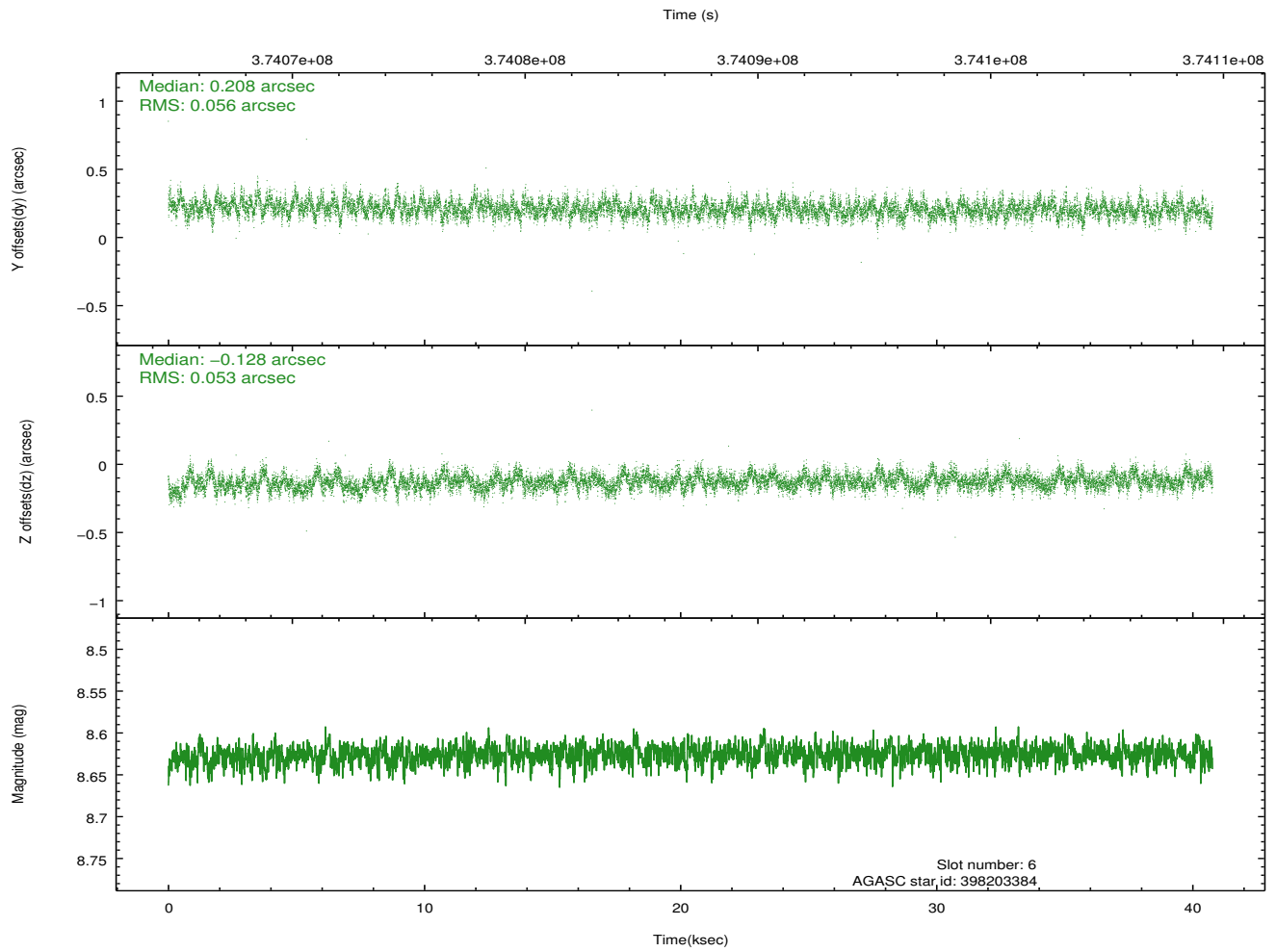
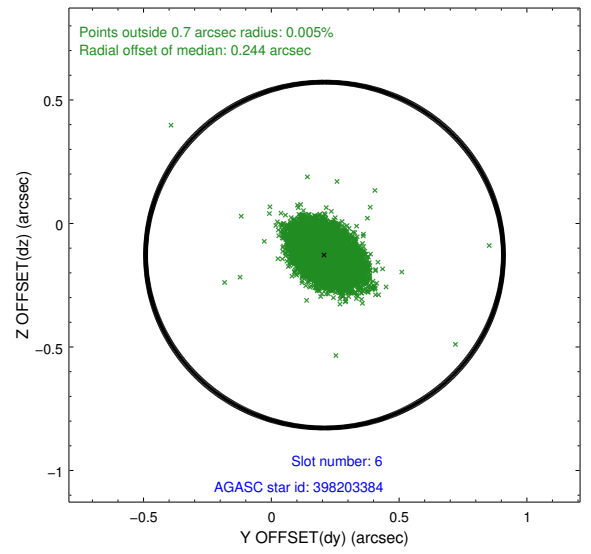
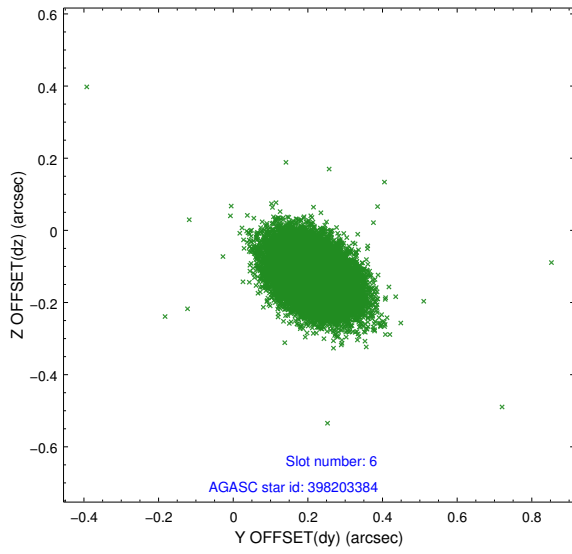
2.4.2 Slot 4



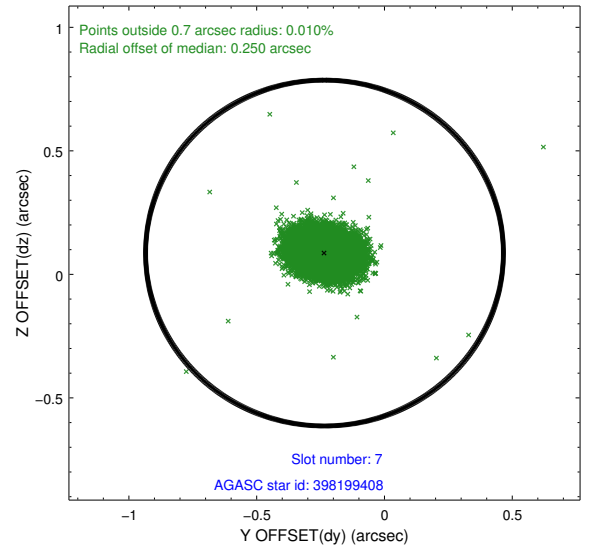
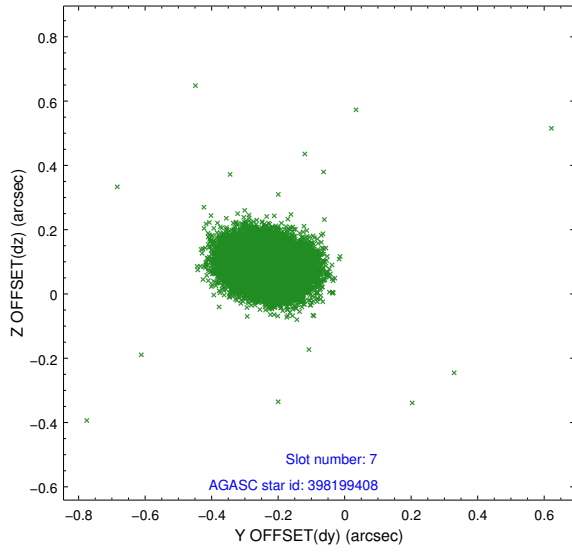
2.4.3 Slot 5



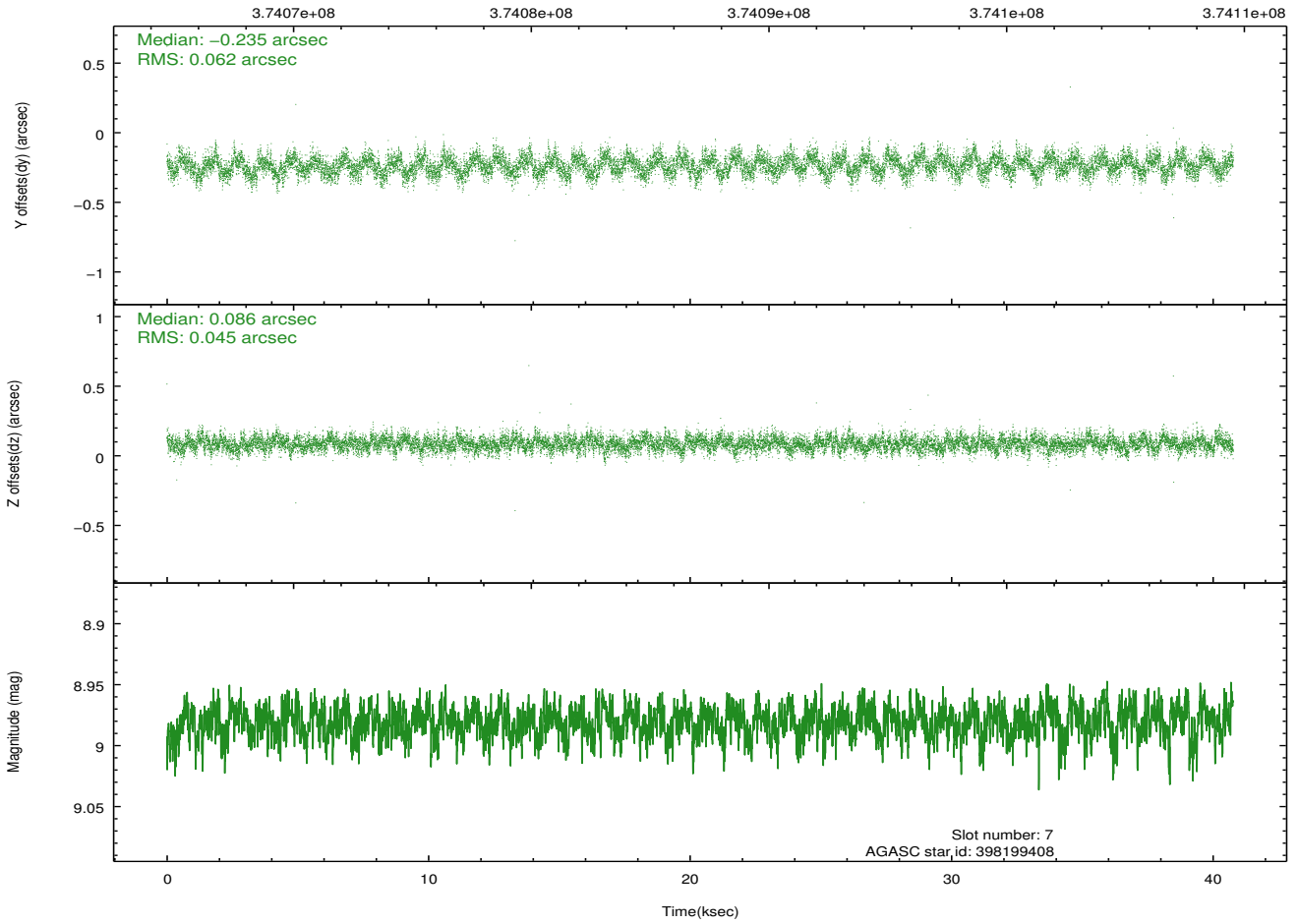
2.4.4 Slot 6



2.4.5 Slot 7

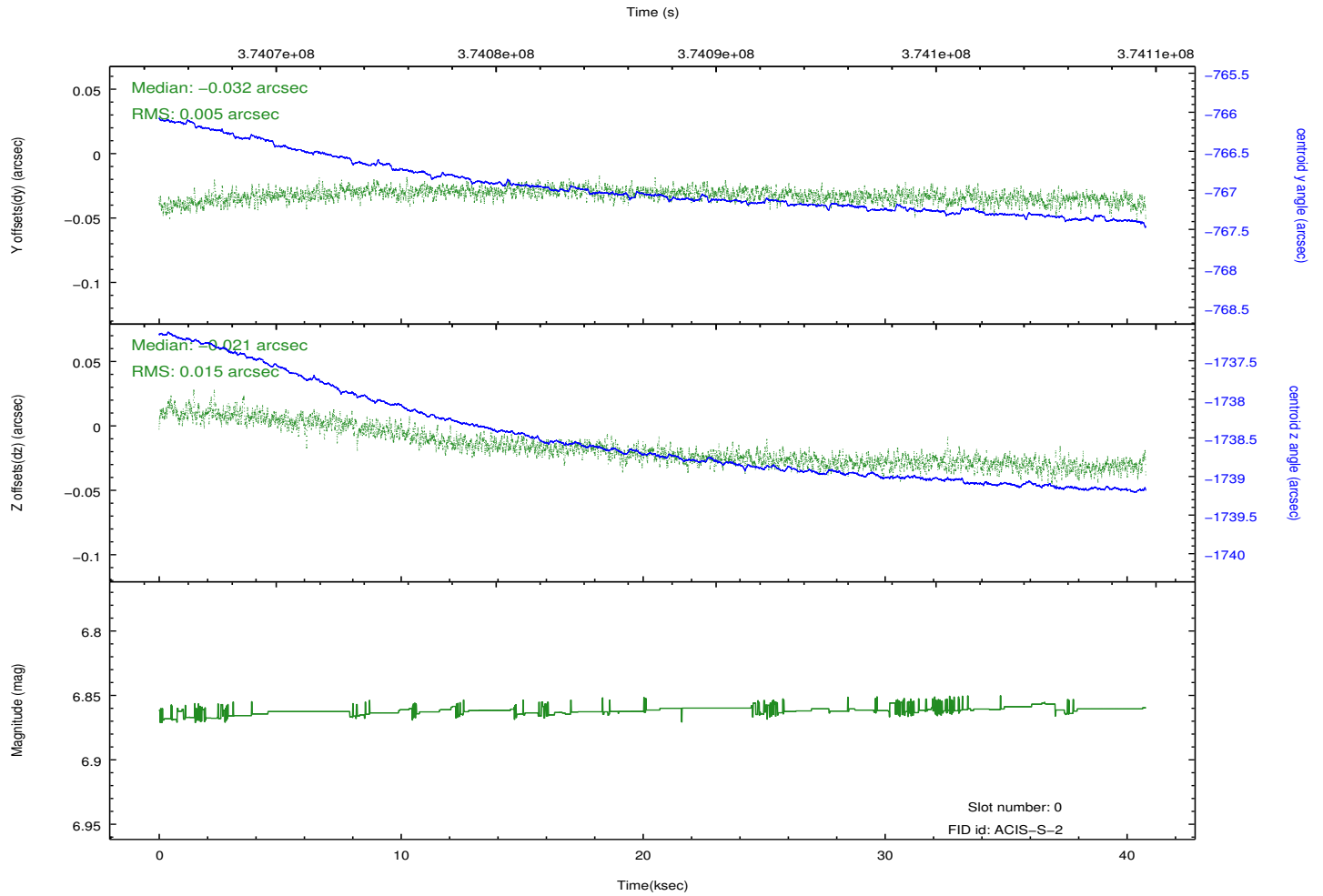
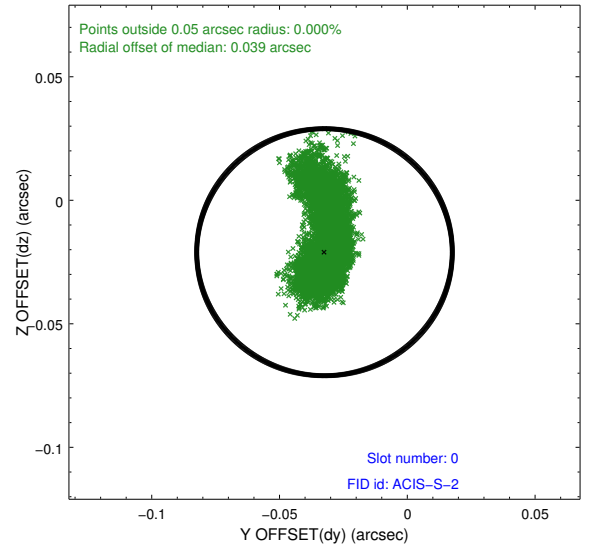
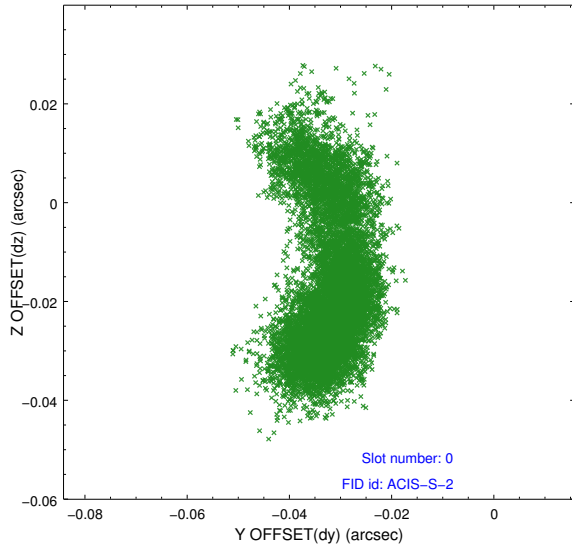


Time (s)

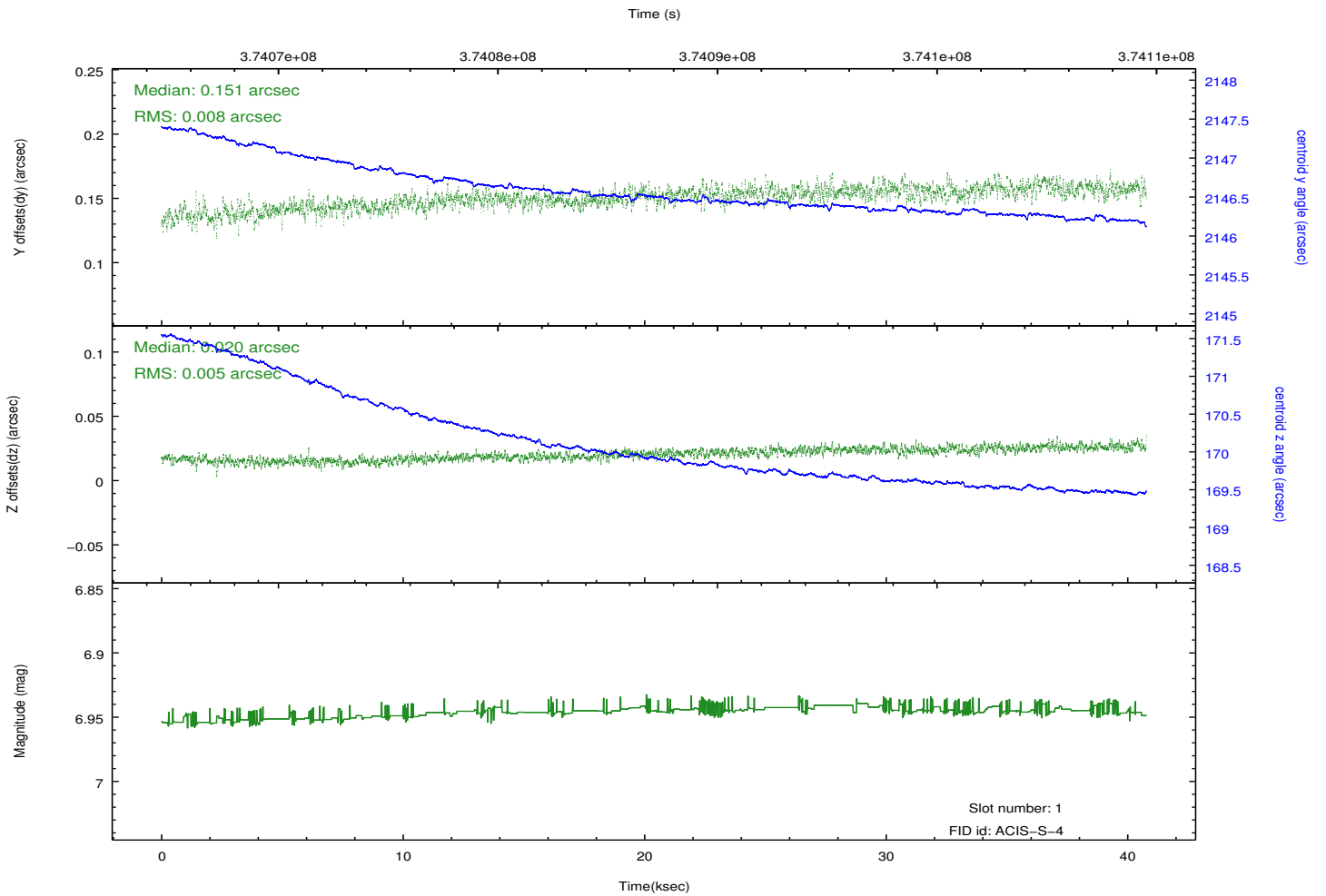
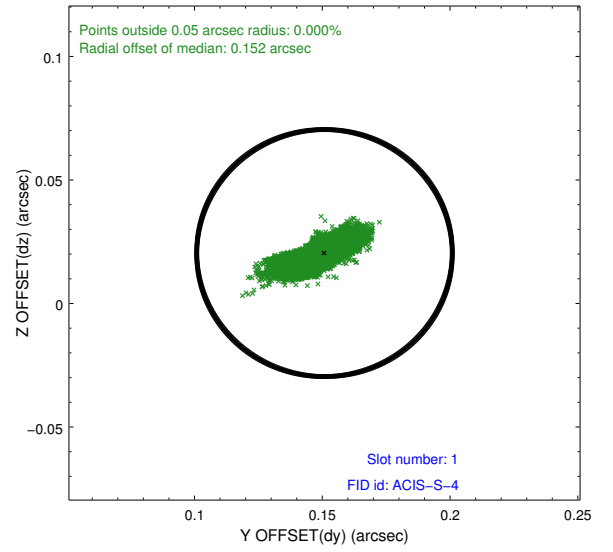
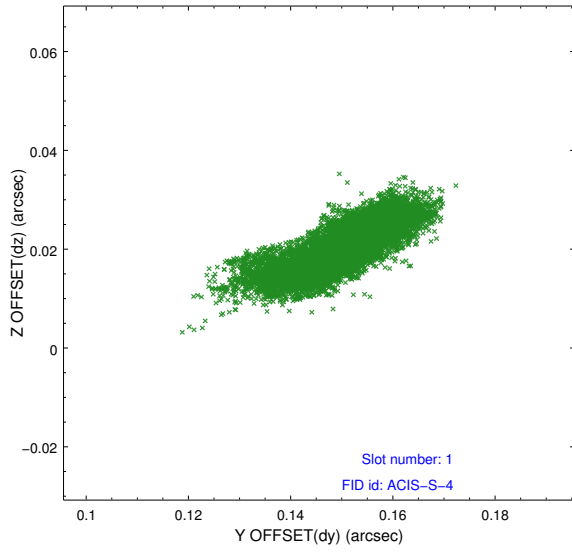


2.5 FID Slots

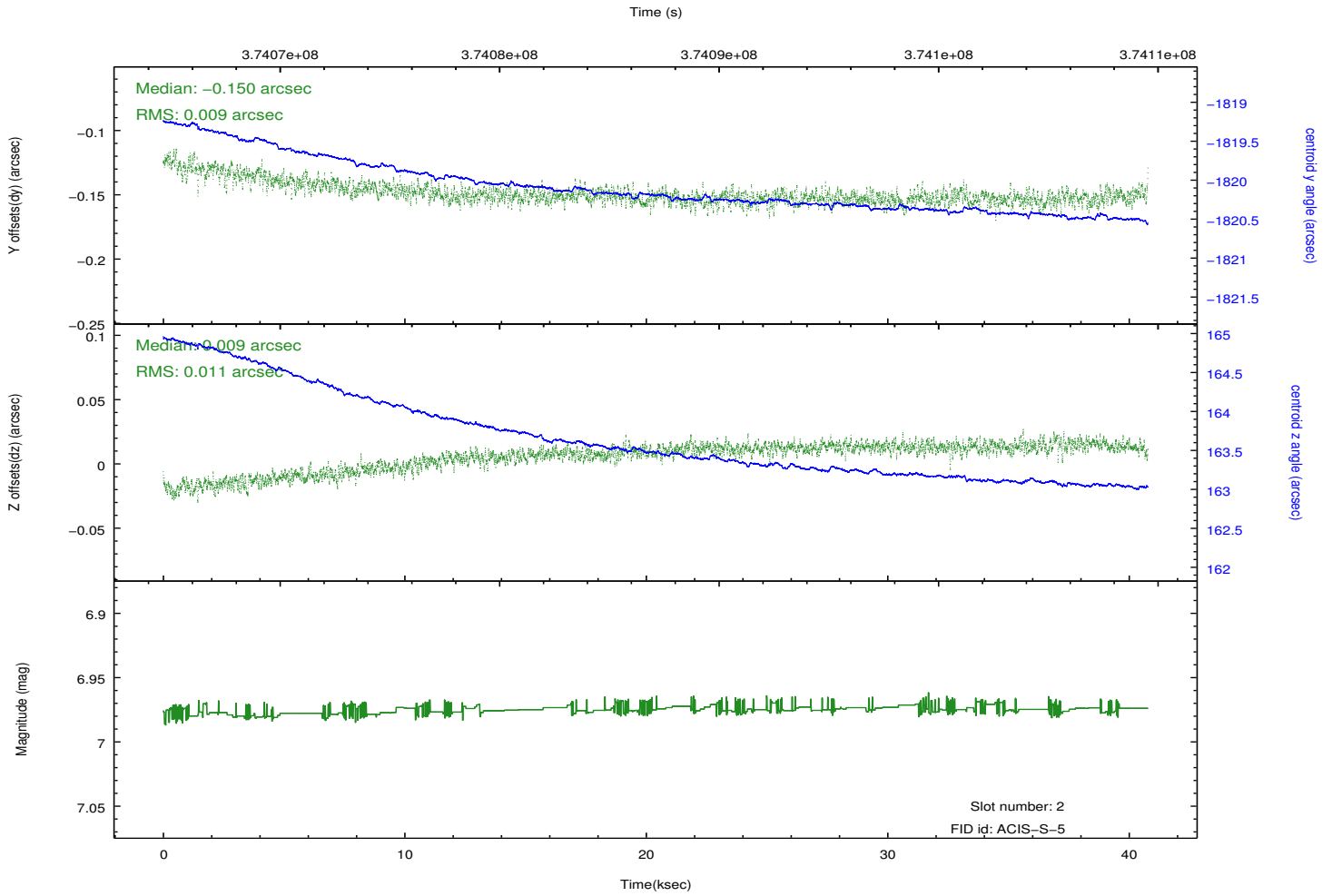
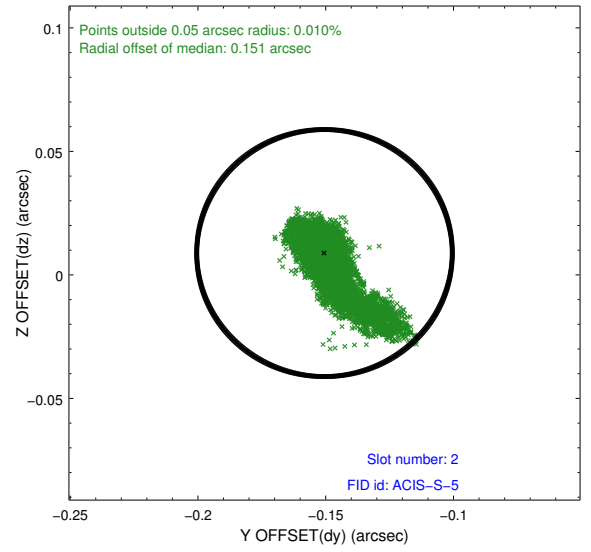
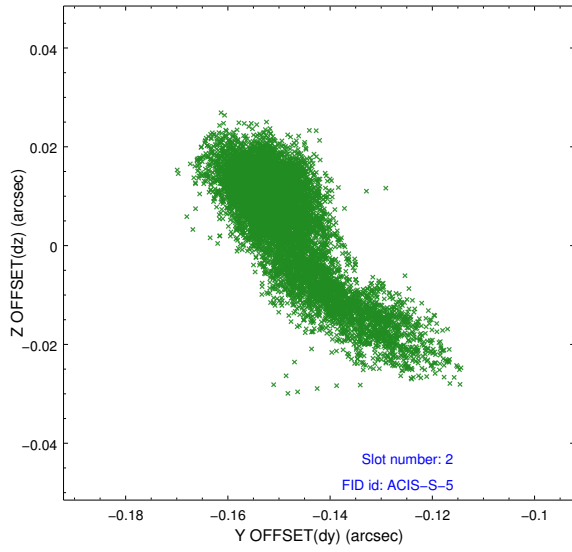
2.5.1 Slot 0



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)	2012.06.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.038399850905

A.2 Comments