

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18782 - L2 Version 1
Chandra X-Ray Center

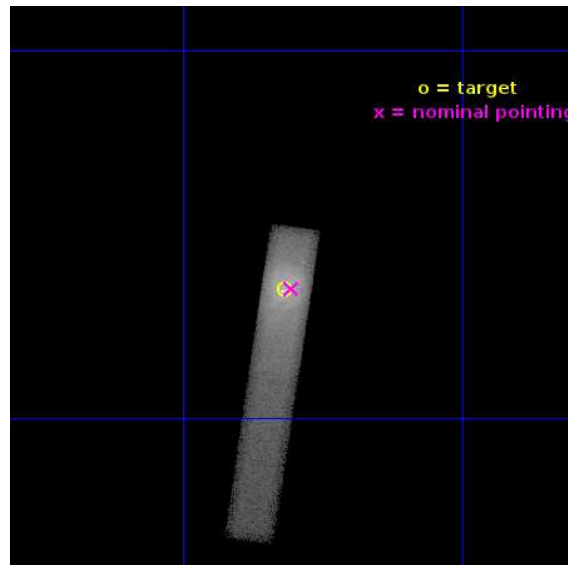
L2 Processing Date : Feb 26 2016

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1 Front

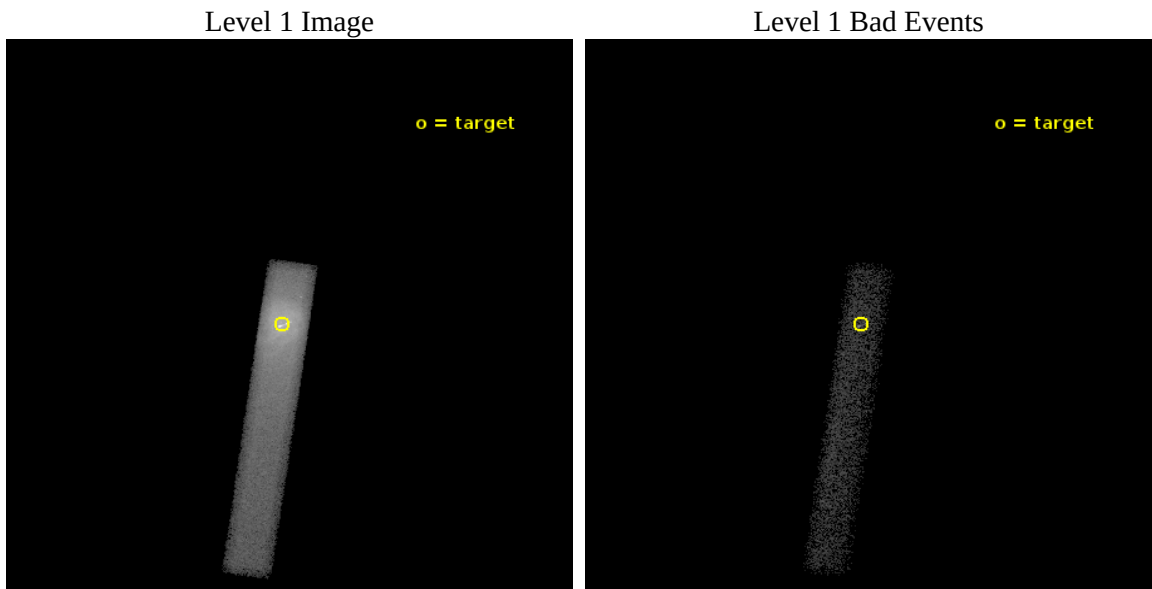
seq_num	801560	Sequence number
obs_id	18782	Observation id
title	The imprints of AGN feedback within the Bondi radius of M87	Propos
observer	Dr Helen Russell	Principal investigator
object	M87	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.704167	Observer's specified target RA [deg]
dec_targ	12.391667	Observer's specified target Dec [deg]
ra_nom	187.70142444528	Nominal RA [deg]
dec_nom	12.392137966604	Nominal Dec [deg]
roll_nom	98.157217866691	Nominal Roll [deg]
revision	1	Processing version of data
ontime	37569.046906233	Sum of GTIs [s]
liveltime	34073.142487061	Livetime [s]
ontime7	37569.046906233	Sum of GTIs [s]
l2events	242171	Number of level 2 events



2 OBI

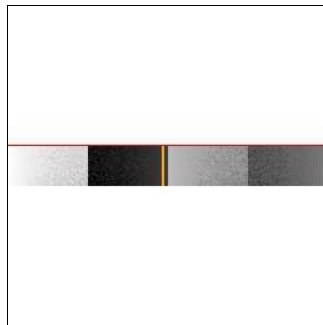
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	37500.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	37569.046906233	Sum of GTIs [s]
caldsver	4.7.0	 	ontime7	37569.046906233	Sum of GTIs [s]
date	2016-02-26T21:05:34	Date and time of file creation	l1events	267378	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

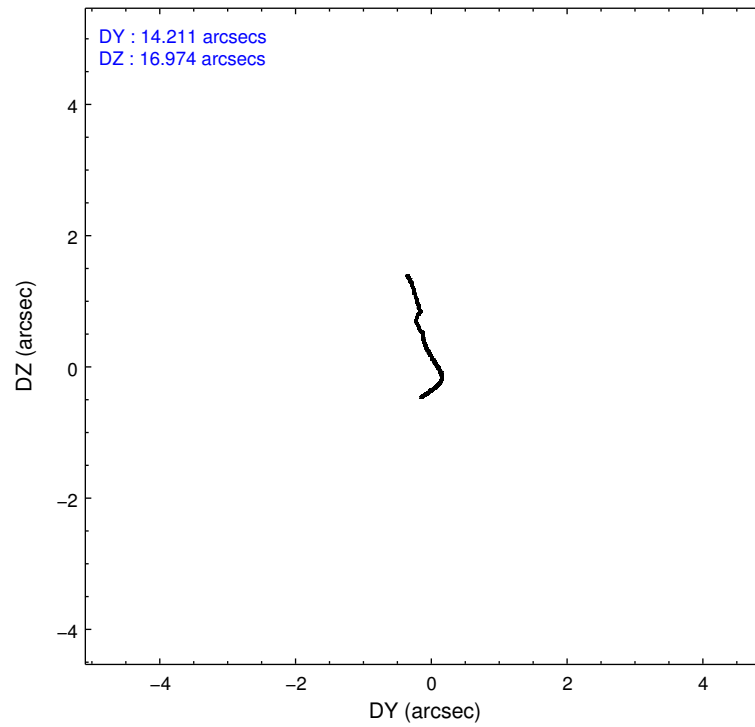
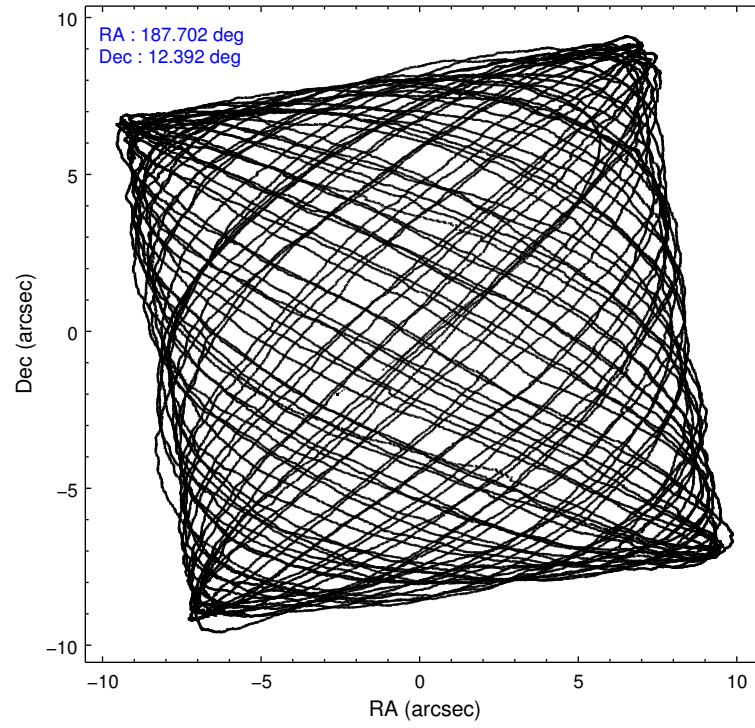
	ccd 7
level 1 events	267378
rejected events	22835
rejected %	8%

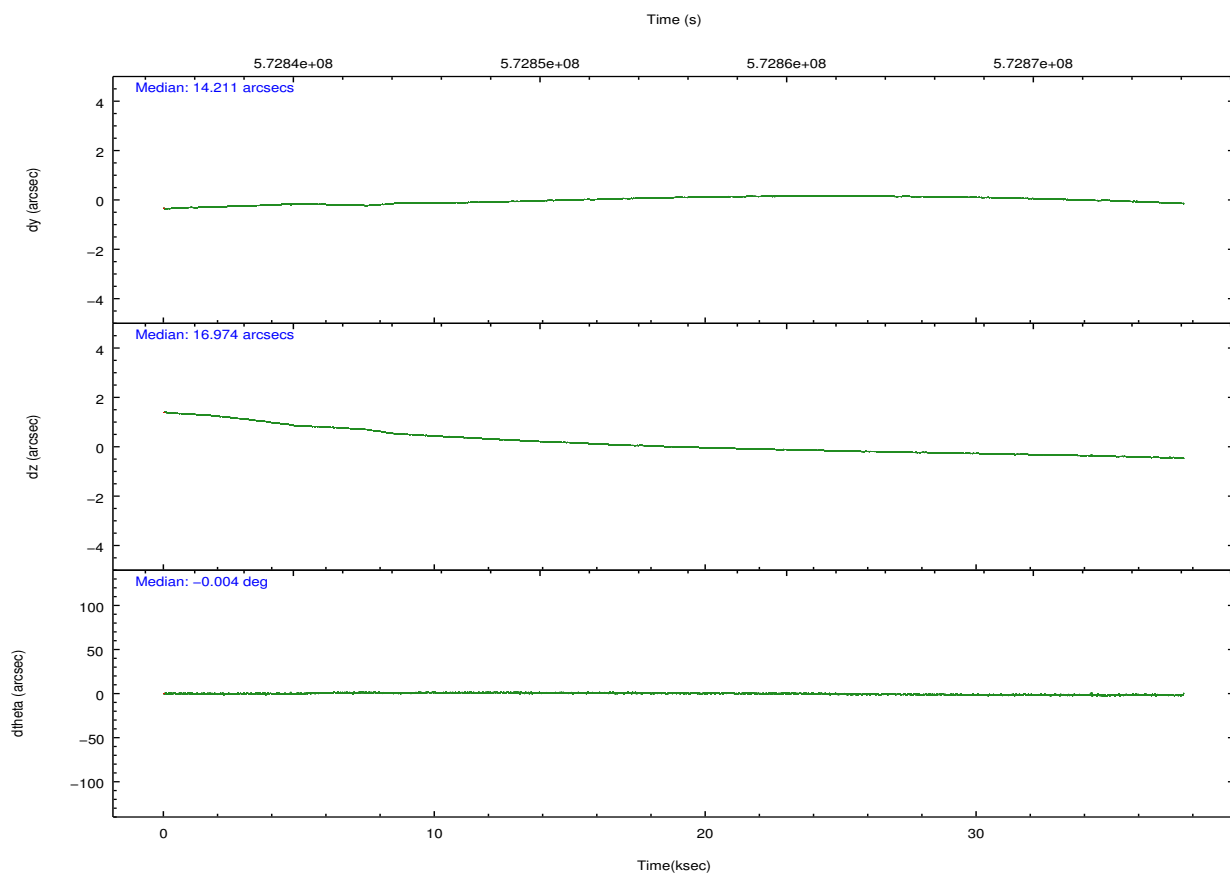
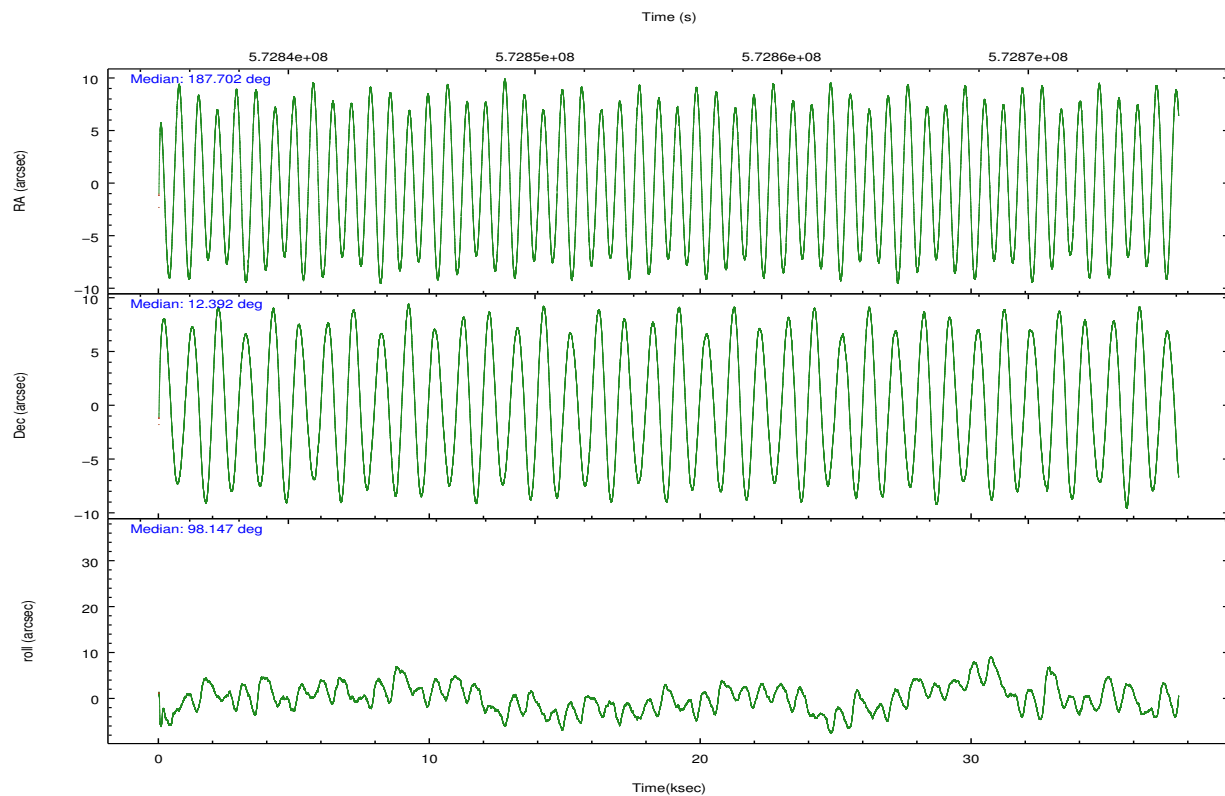
	ccd 7
grade 0 events	67822
	25%
grade 1 events	123
	0%
grade 2 events	63892
	23%
grade 3 events	29361
	10%
grade 4 events	28174
	10%
grade 5 events	5546
	2%
grade 6 events	55301
	20%
grade 7 events	17159
	6%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	187.719071	187.7014244452849	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	12.370774	12.39213796660434	Subarray start row	449	449
[deg] Pointing Roll	97.996810	98.15721786669052	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	572836772.184000	572835537.86493			
Observation start date	2016-02-26T01:18:24	2016-02-26T00:58:57			
[s] Observation end time (MET)	572874272.184000	572874879.41717			
Observation end date	2016-02-26T11:43:24	2016-02-26T11:54:39			
Read mode	TIMED	TIMED			

2.3 Aspect



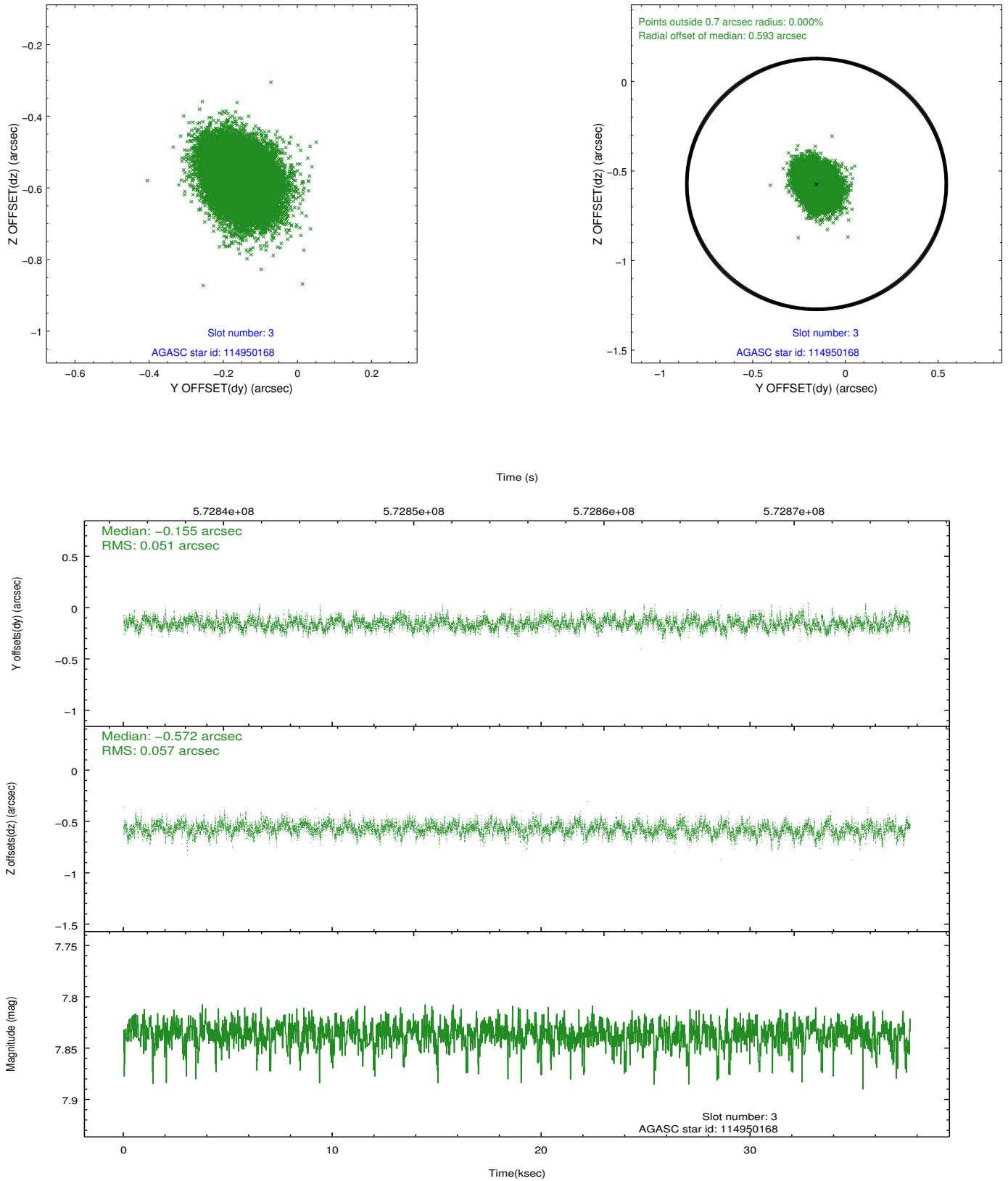


Slot Statistics

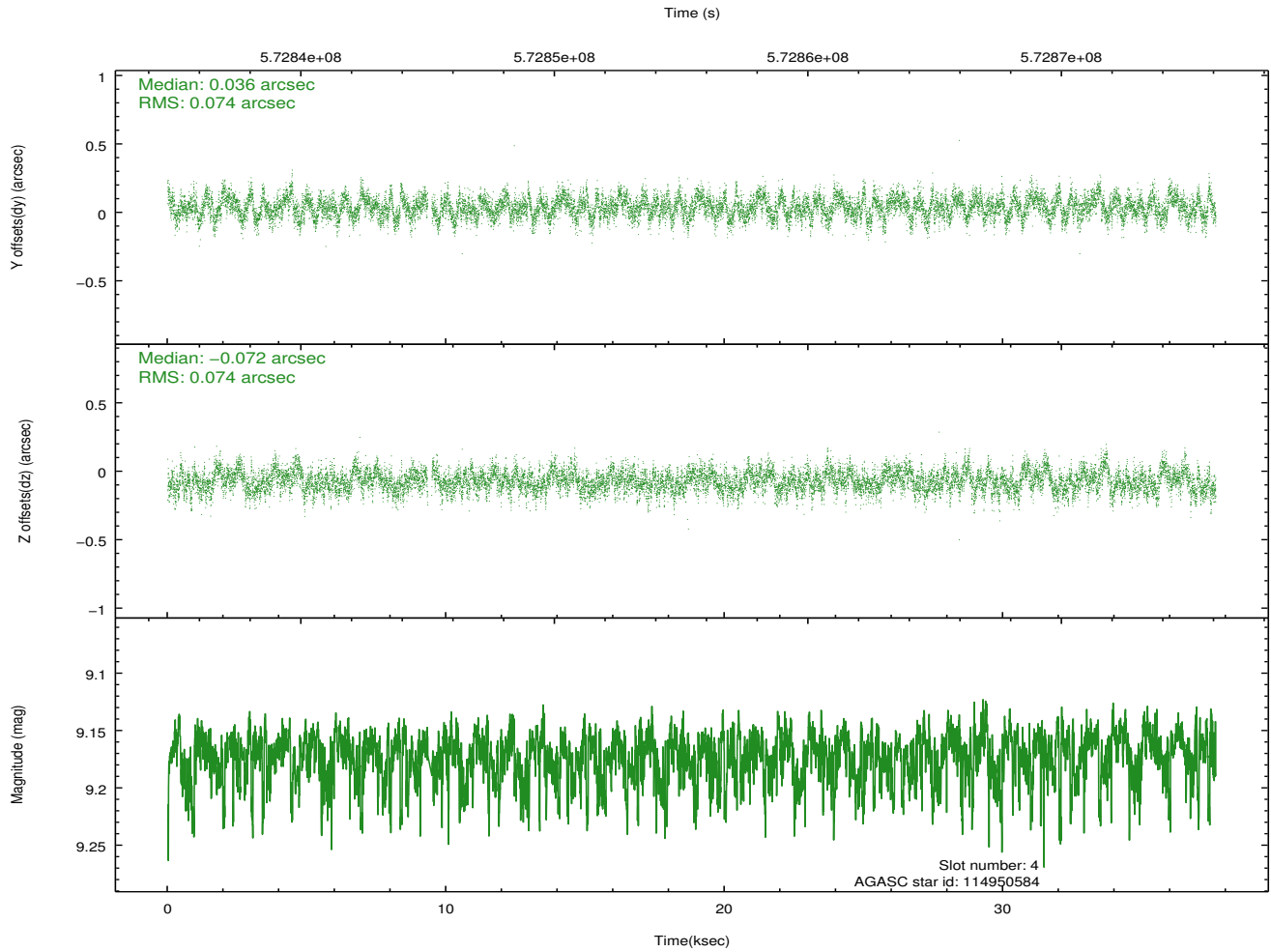
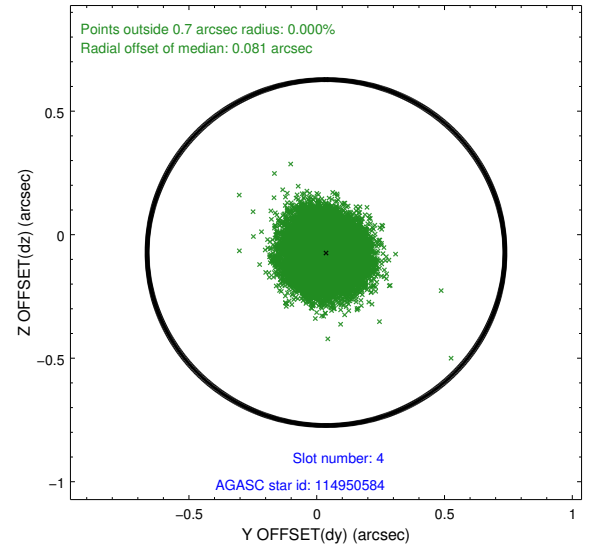
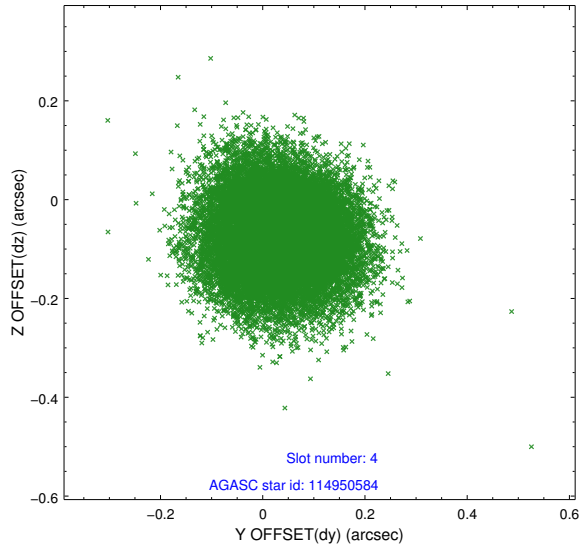
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.11	9181	-0.142	-0.109	0.024	0.031	0.000000	0.000000	-767.28	-1738.69
1	FID		ACIS-S-4	7.21	9182	0.421	0.097	0.013	0.020	0.000000	0.000000	2146.55	169.96
2	FID		ACIS-S-5	7.23	9181	-0.311	0.020	0.021	0.028	0.000000	0.000000	-1820.25	163.60
3	GUIDE	used	114950168	7.84	18361	-0.155	-0.572	0.081	0.133	187.143398	12.117441	-619.94	2132.81
4	GUIDE	used	114950584	9.17	18278	0.036	-0.072	0.113	0.179	187.487323	11.827248	-1823.93	1081.49
5	GUIDE	used	114955056	8.33	18353	0.040	1.025	0.096	0.153	187.914001	12.127854	-961.08	-556.29
6	GUIDE	used	114956608	9.61	18326	0.048	0.034	0.153	0.267	187.452443	11.725979	-2168.07	1254.97
7	GUIDE	used	114956144	9.75	18341	0.018	-0.412	0.139	0.231	187.100545	12.039156	-877.35	2326.00

2.4 Star Slots

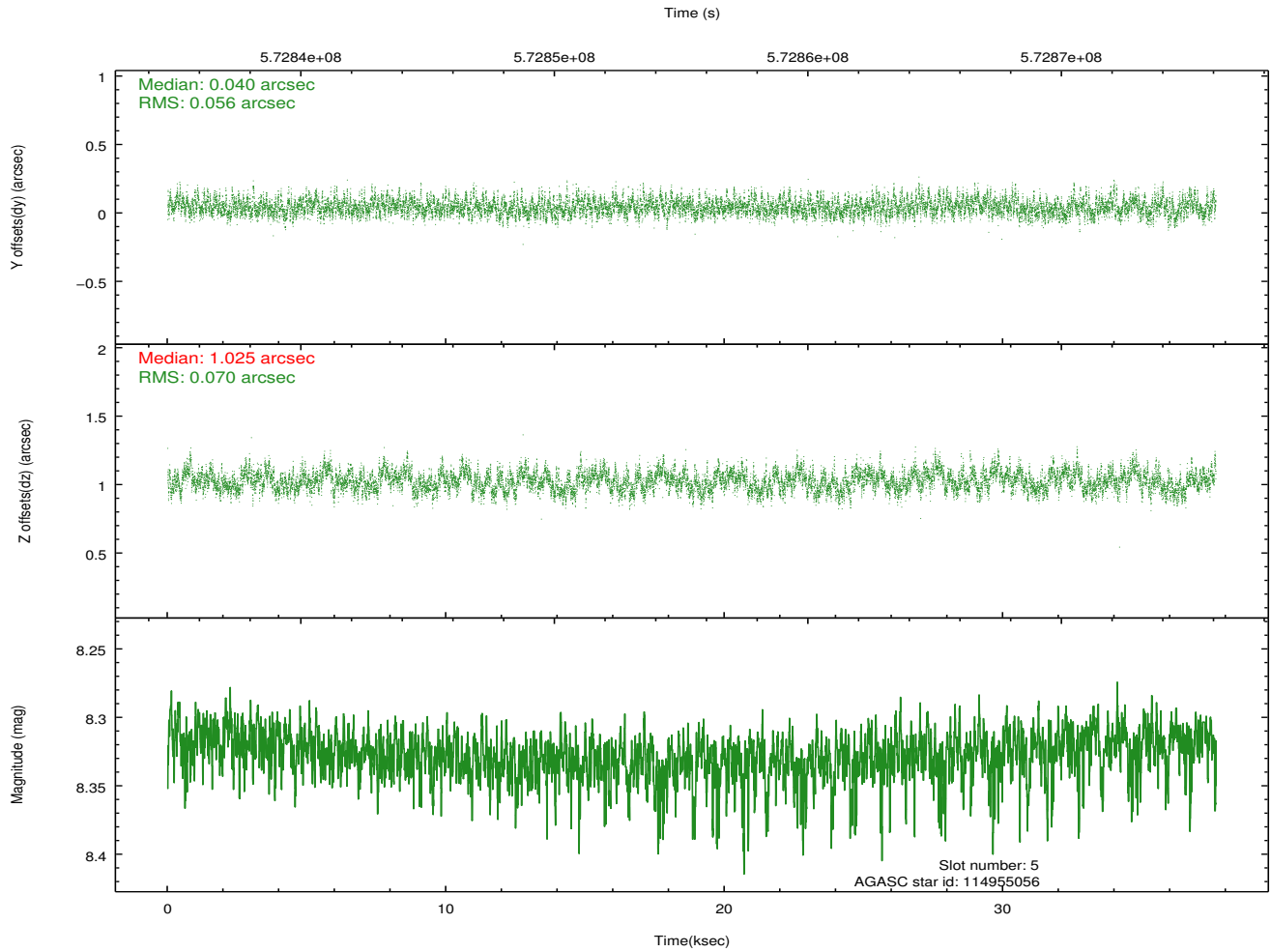
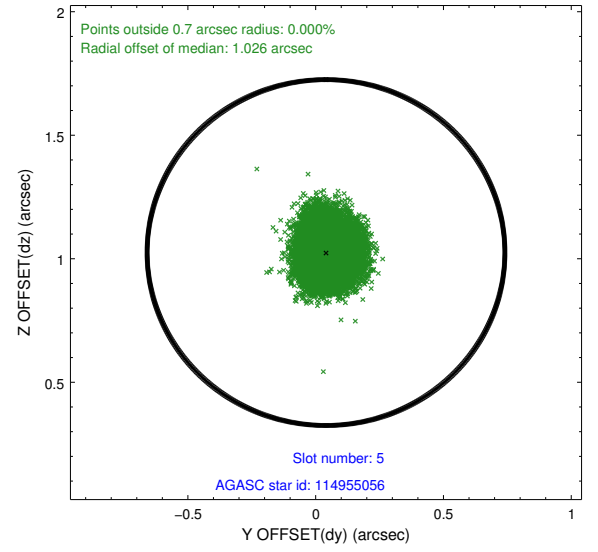
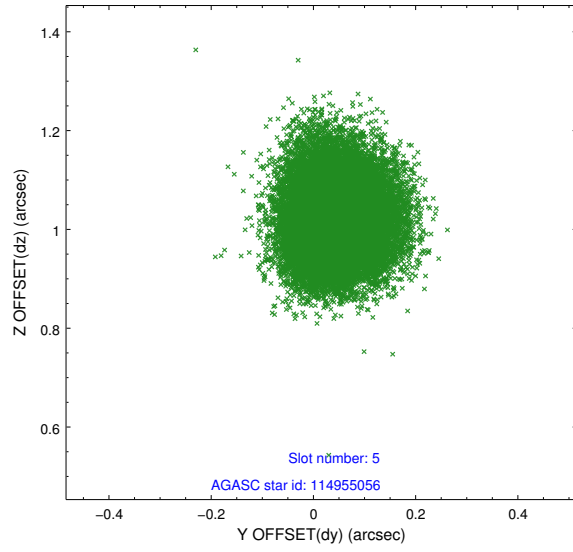
2.4.1 Slot 3



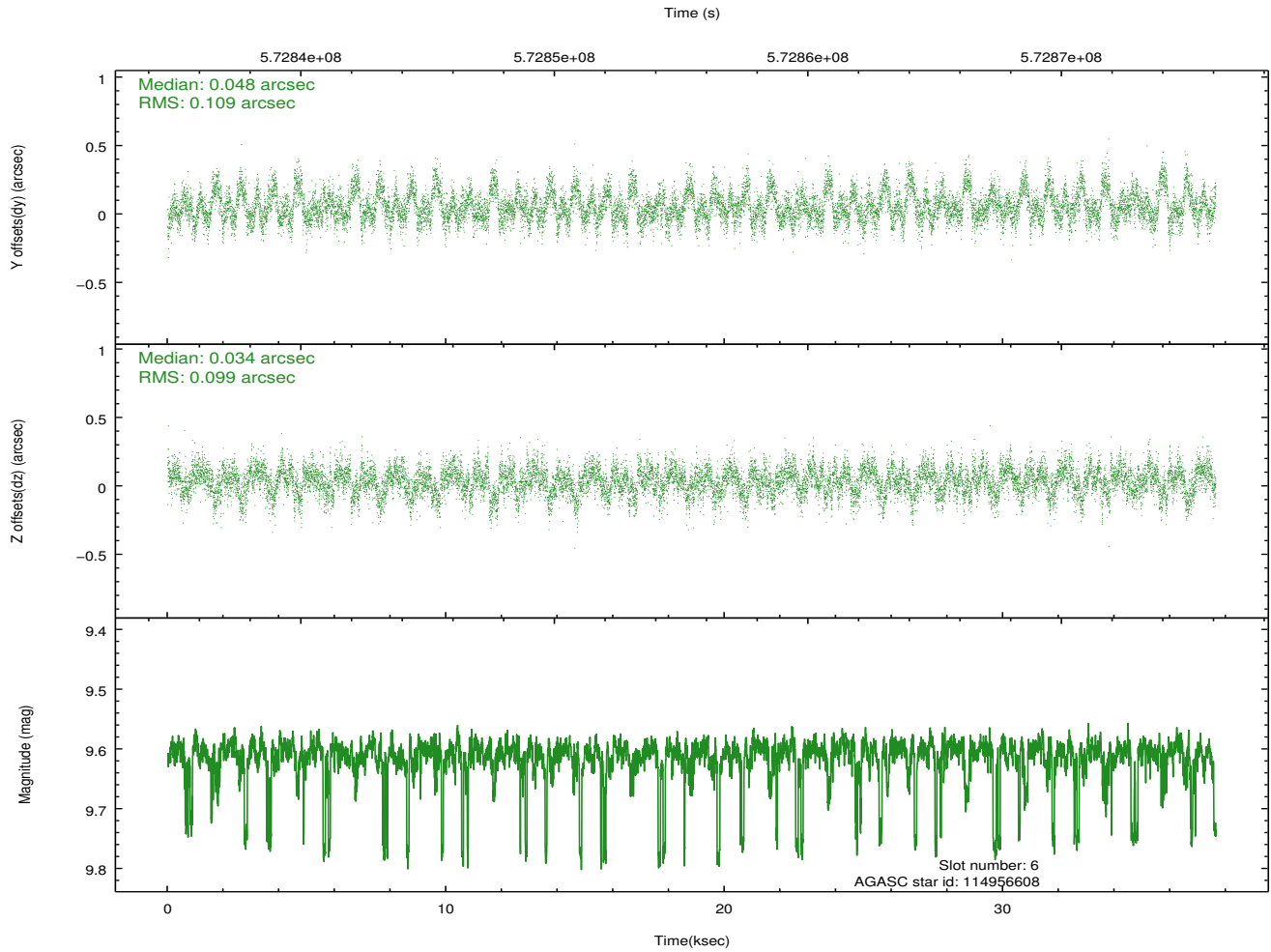
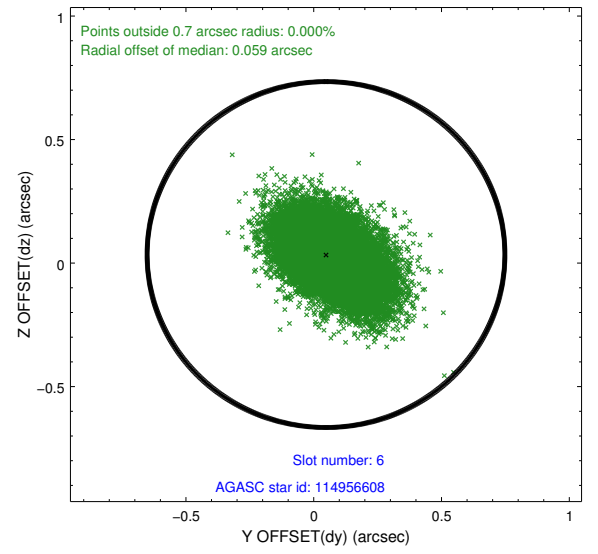
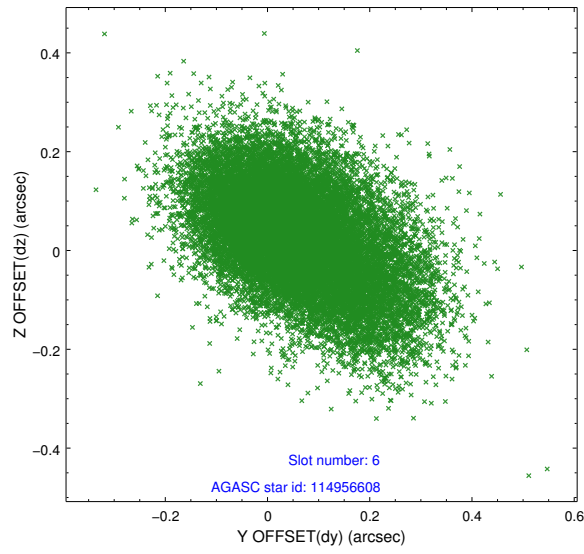
2.4.2 Slot 4



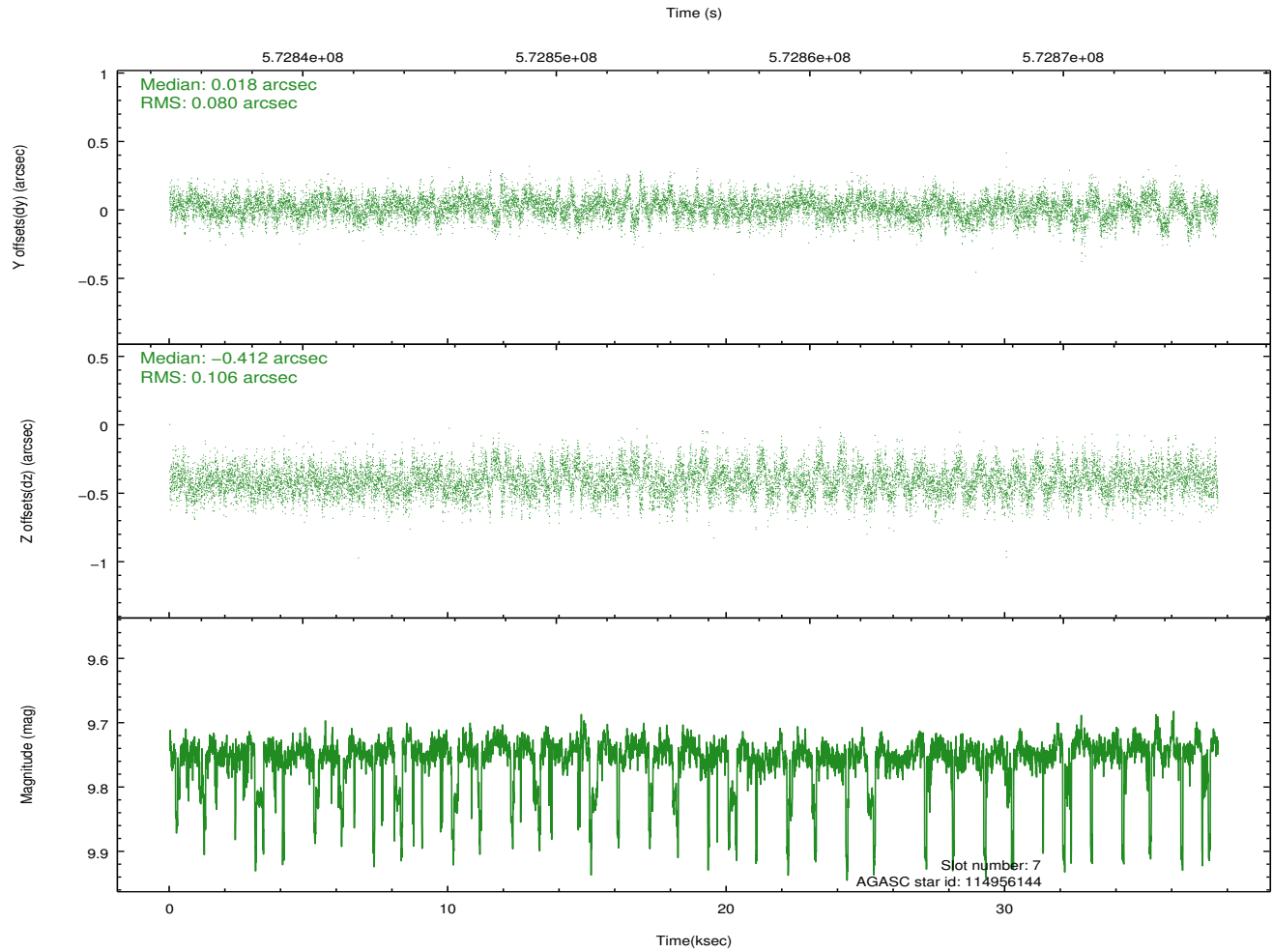
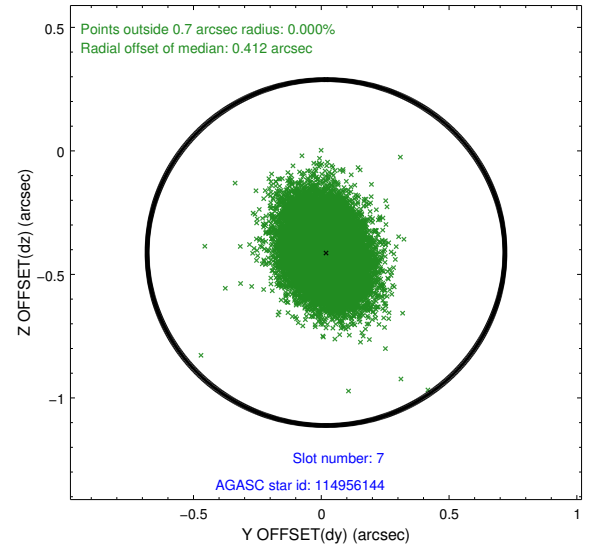
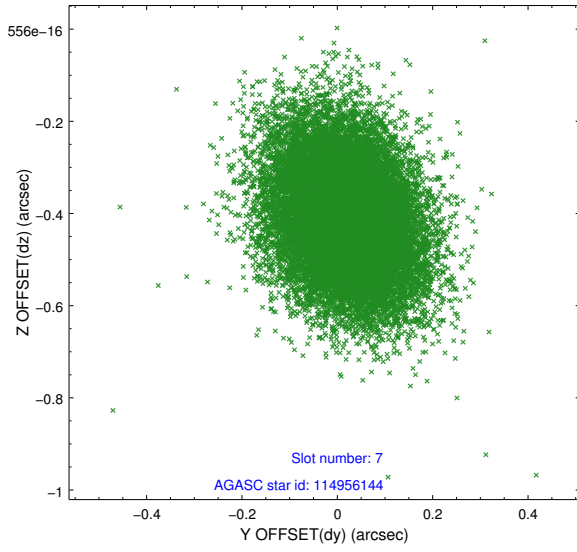
2.4.3 Slot 5



2.4.4 Slot 6

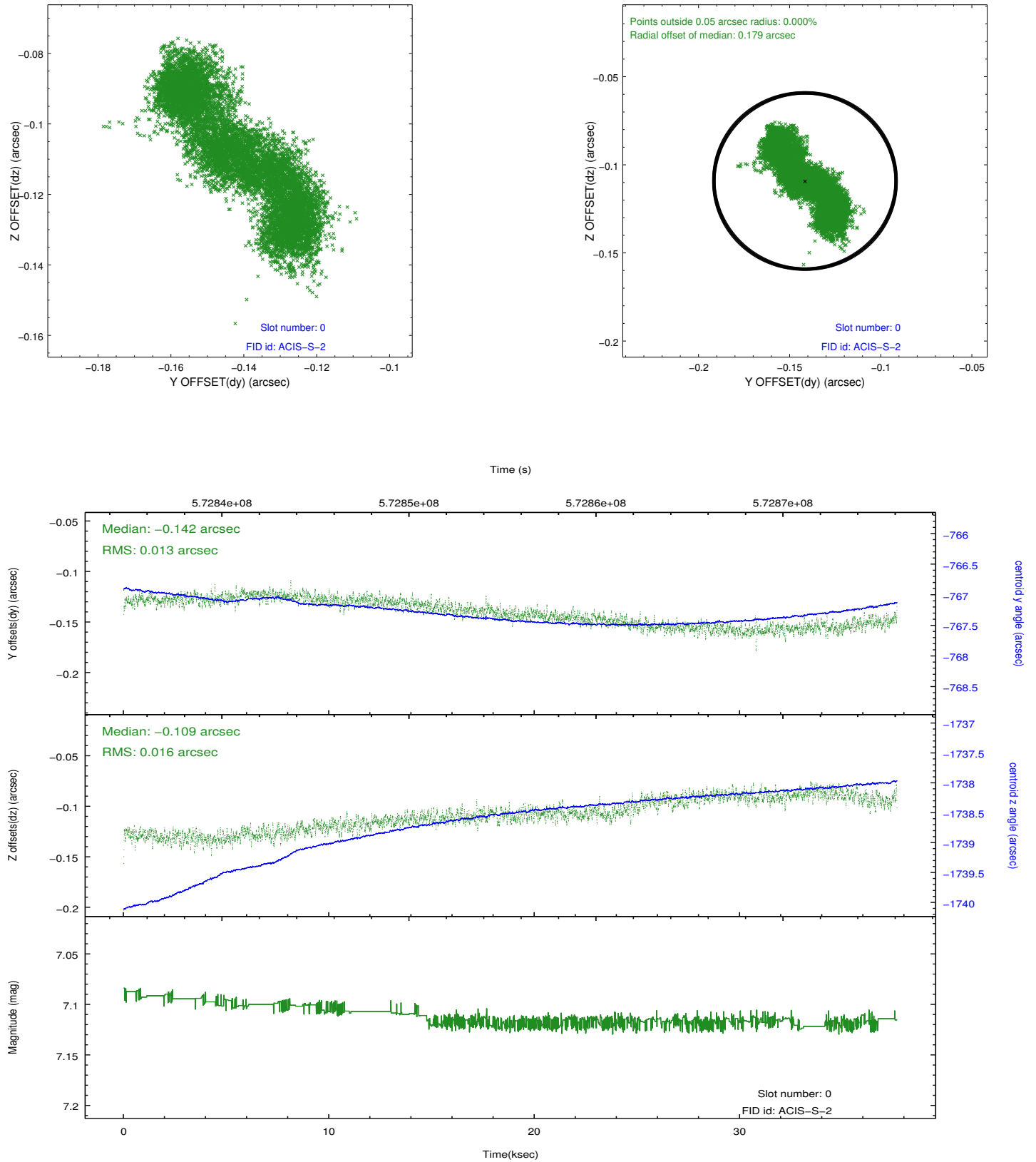


2.4.5 Slot 7

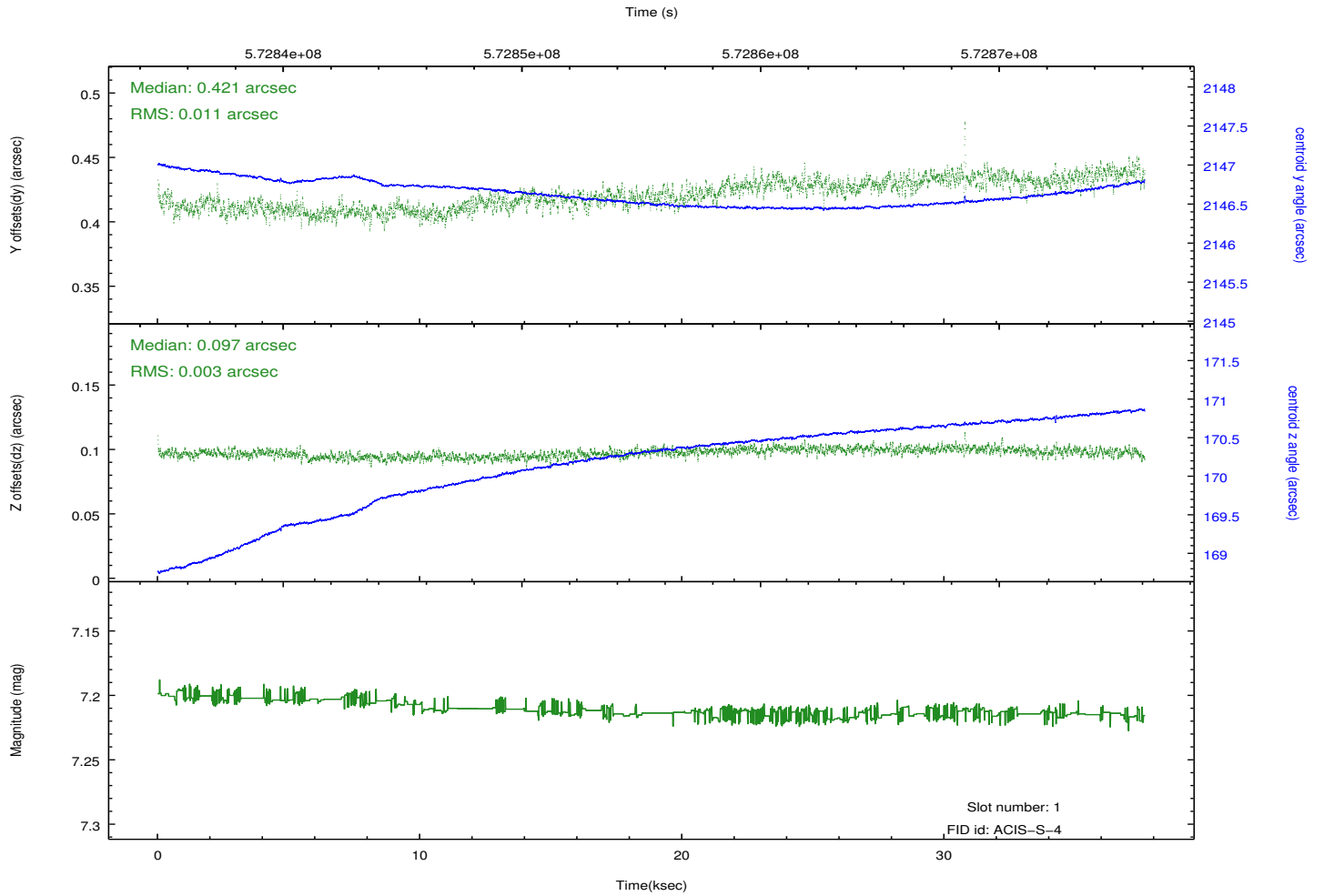
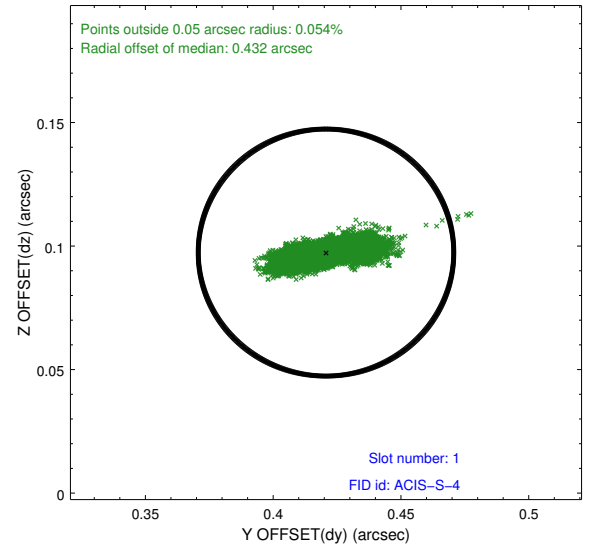
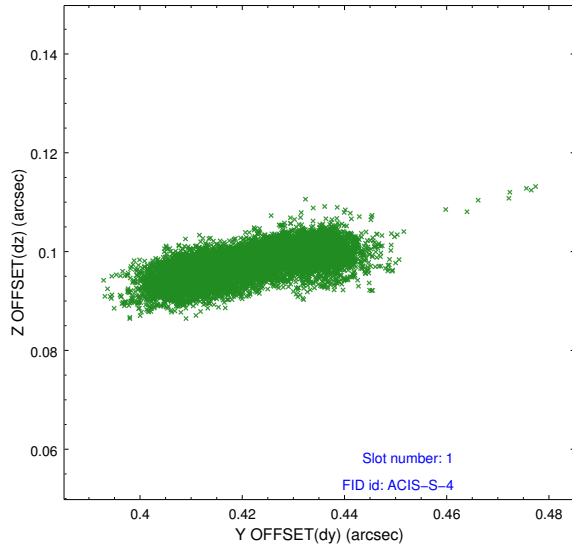


2.5 FID Slots

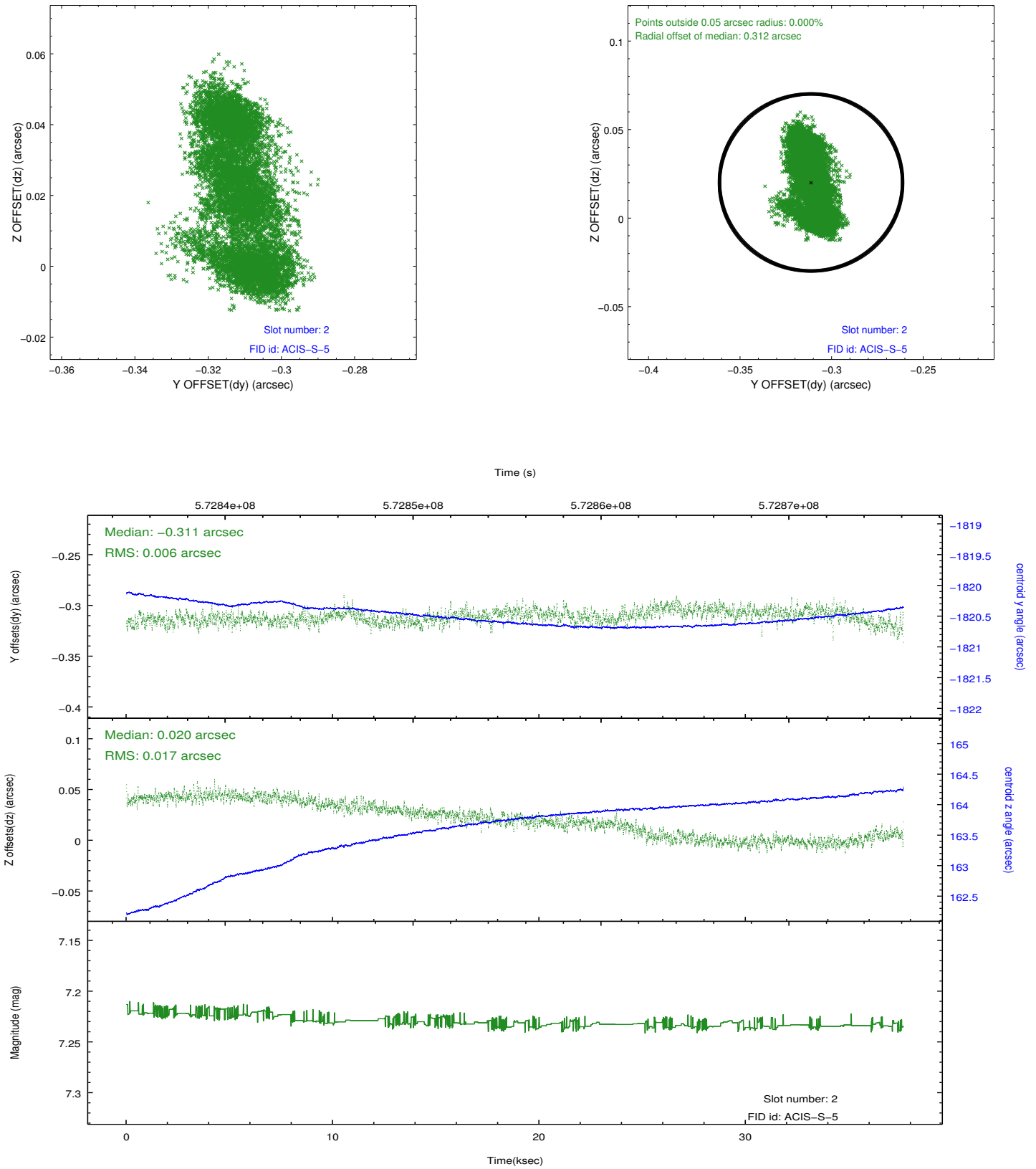
2.5.1 Slot 0



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)	2016.02.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	37.569046906233

A.2 Comments