

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18813 - L2 Version 1
Chandra X-Ray Center

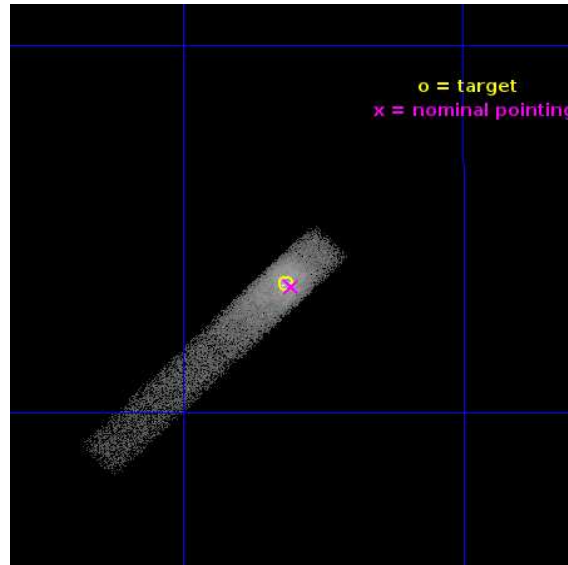
L2 Processing Date : Mar 17 2016

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1 Front

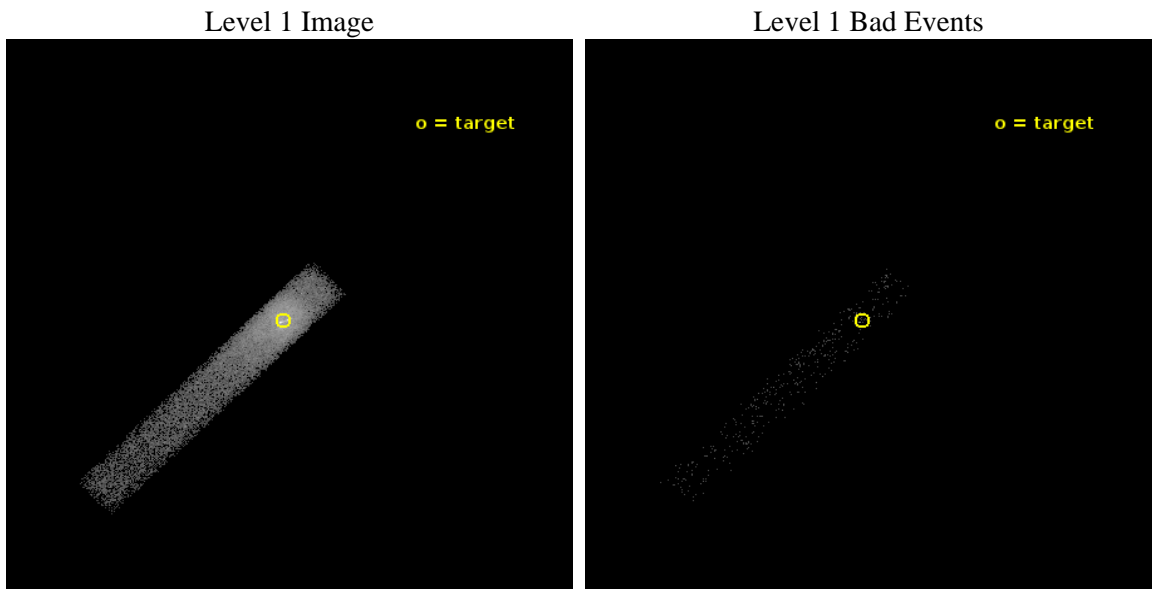
seq_num	703301	Sequence number
obs_id	18813	Observation id
title	Detecting an X-ray Counterpart to an Active TeV Flaring Event in the M87 Jet	Proposal title
observer	C. (Teddy) Cheung	Principal investigator
object	M87	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.704167	Observer's specified target RA [deg]
dec_targ	12.391667	Observer's specified target Dec [deg]
ra_nom	187.70171014708	Nominal RA [deg]
dec_nom	12.390431355638	Nominal Dec [deg]
roll_nom	135.41878812454	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5068.7681474686	Sum of GTIs [s]
livetime	4597.1051582338	Livetime [s]
ontime7	5068.7681474686	Sum of GTIs [s]
l2events	33058	Number of level 2 events



2 OBI

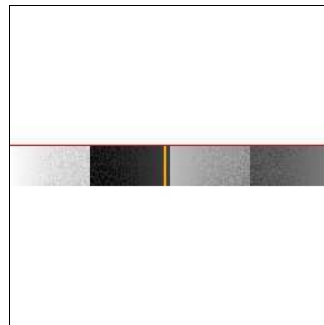
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	5068.7681474686	Sum of GTIs [s]
caldsver	4.7.0	 	ontime7	5068.7681474686	Sum of GTIs [s]
date	2016-03-17T14:56:29	Date and time of file creation	l1events	36254	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

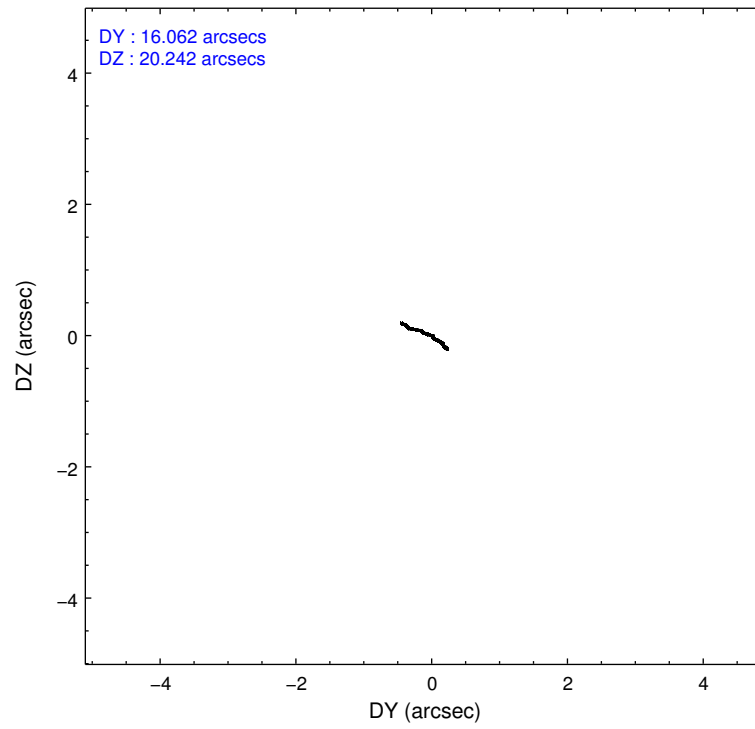
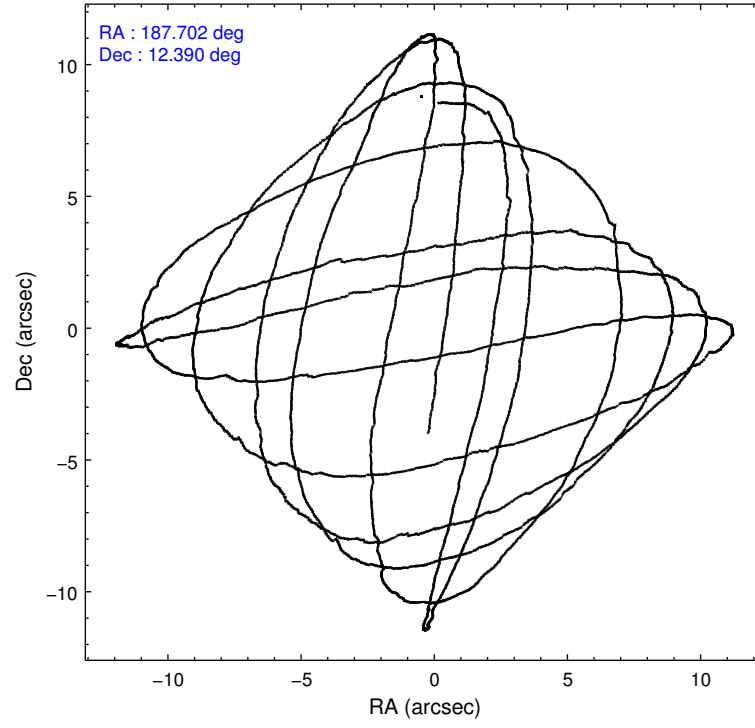
	ccd 7
level 1 events	36254
rejected events	2844
rejected %	7%

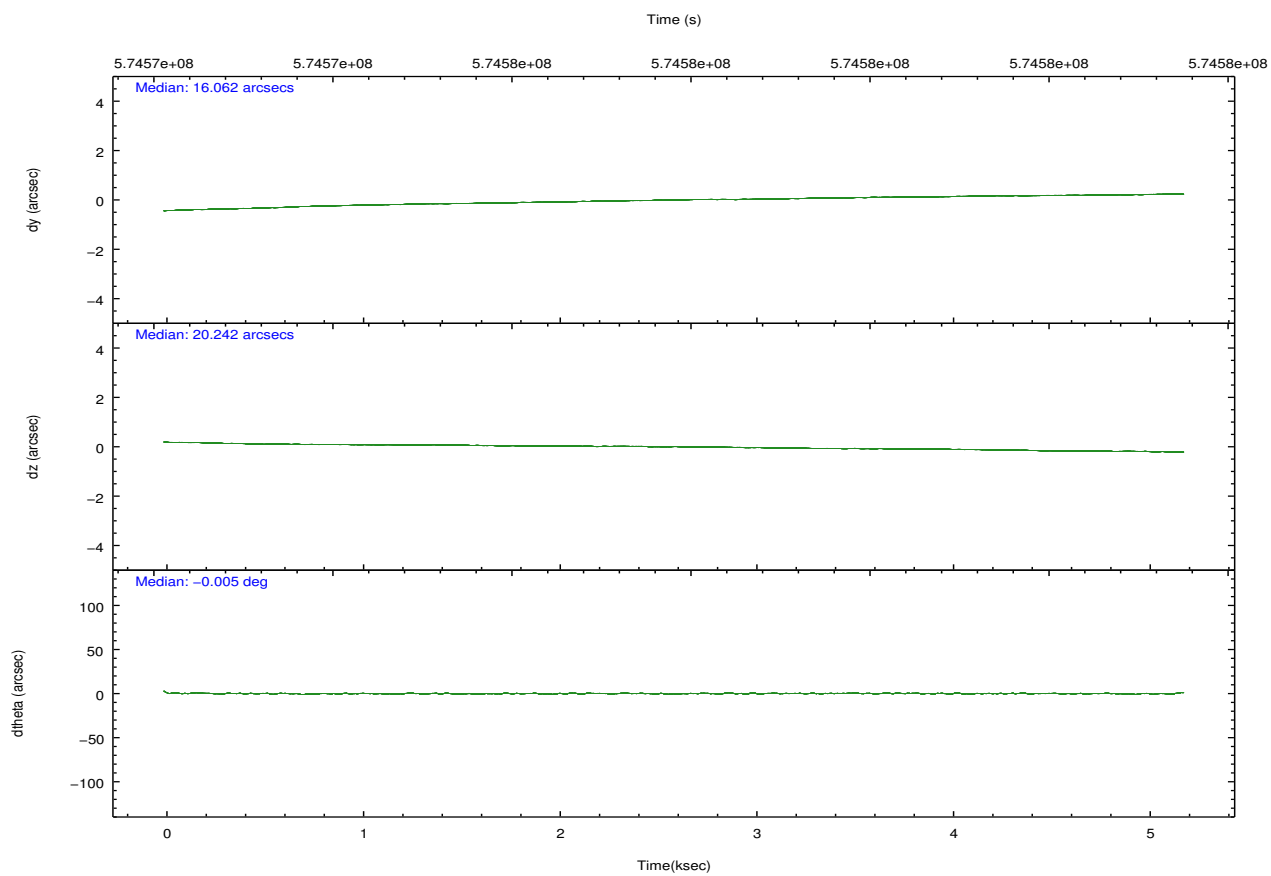
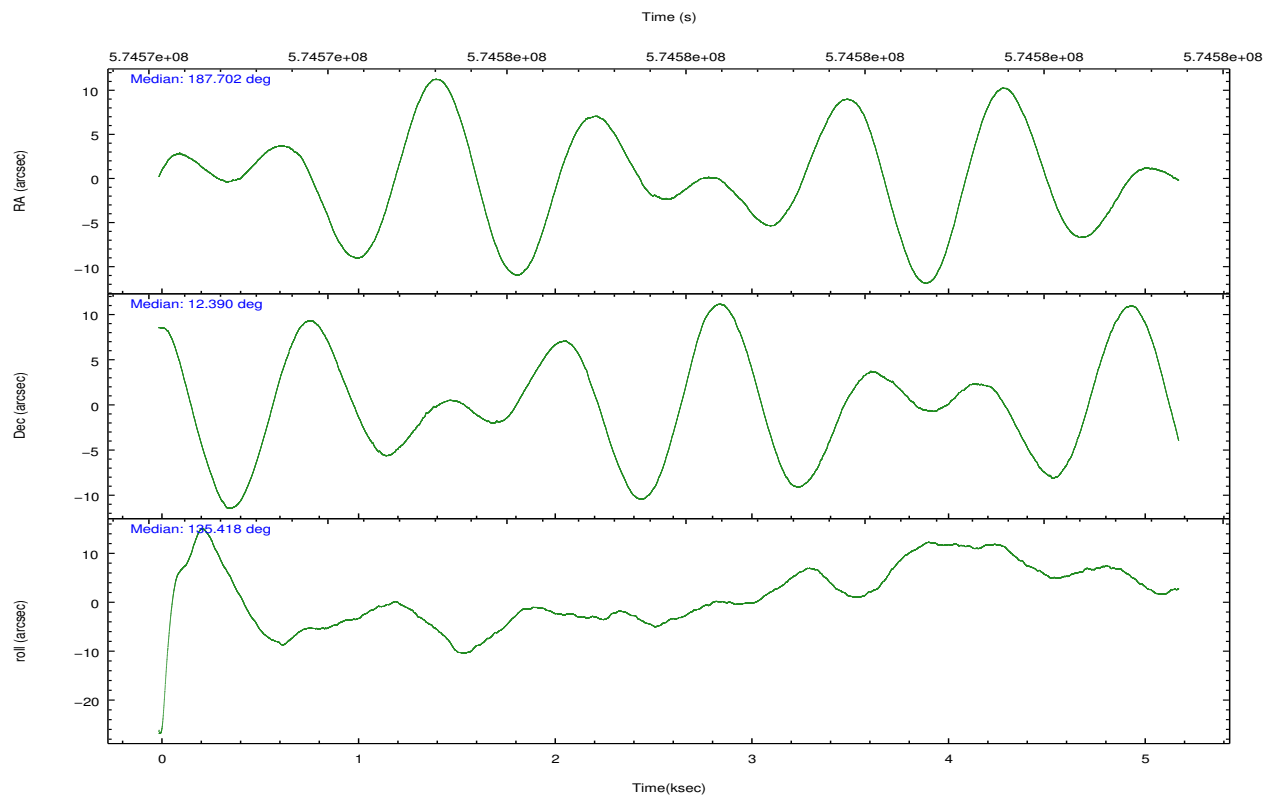
	ccd 7
grade 0 events	9301
	25%
grade 1 events	16
	0%
grade 2 events	8783
	24%
grade 3 events	3963
	10%
grade 4 events	3823
	10%
grade 5 events	735
	2%
grade 6 events	7550
	20%
grade 7 events	2083
	5%

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	187.728985	187.7017101470781	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	12.383855	12.39043135563794	Subarray start row	449	449
[deg] Pointing Roll	135.256291	135.4187881245434	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)	574573483.184000	574572437.29962			
Observation start date	2016-03-17T03:43:35	2016-03-17T03:27:17			
[s] Observation end time (MET)	574578483.184000	574578954.76249			
Observation end date	2016-03-17T05:06:55	2016-03-17T05:15:54			
Read mode	TIMED	TIMED			

2.3 Aspect



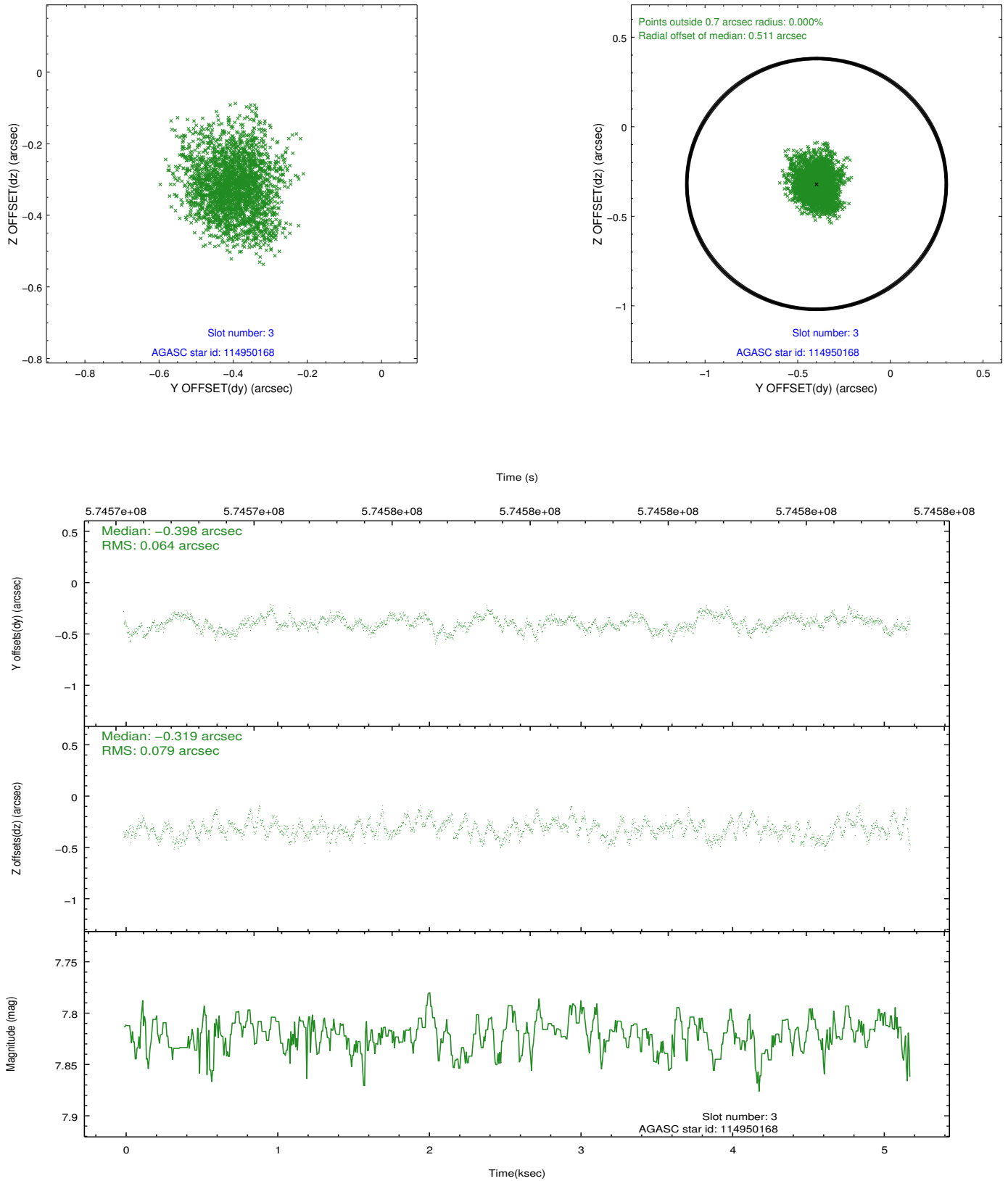


Slot Statistics

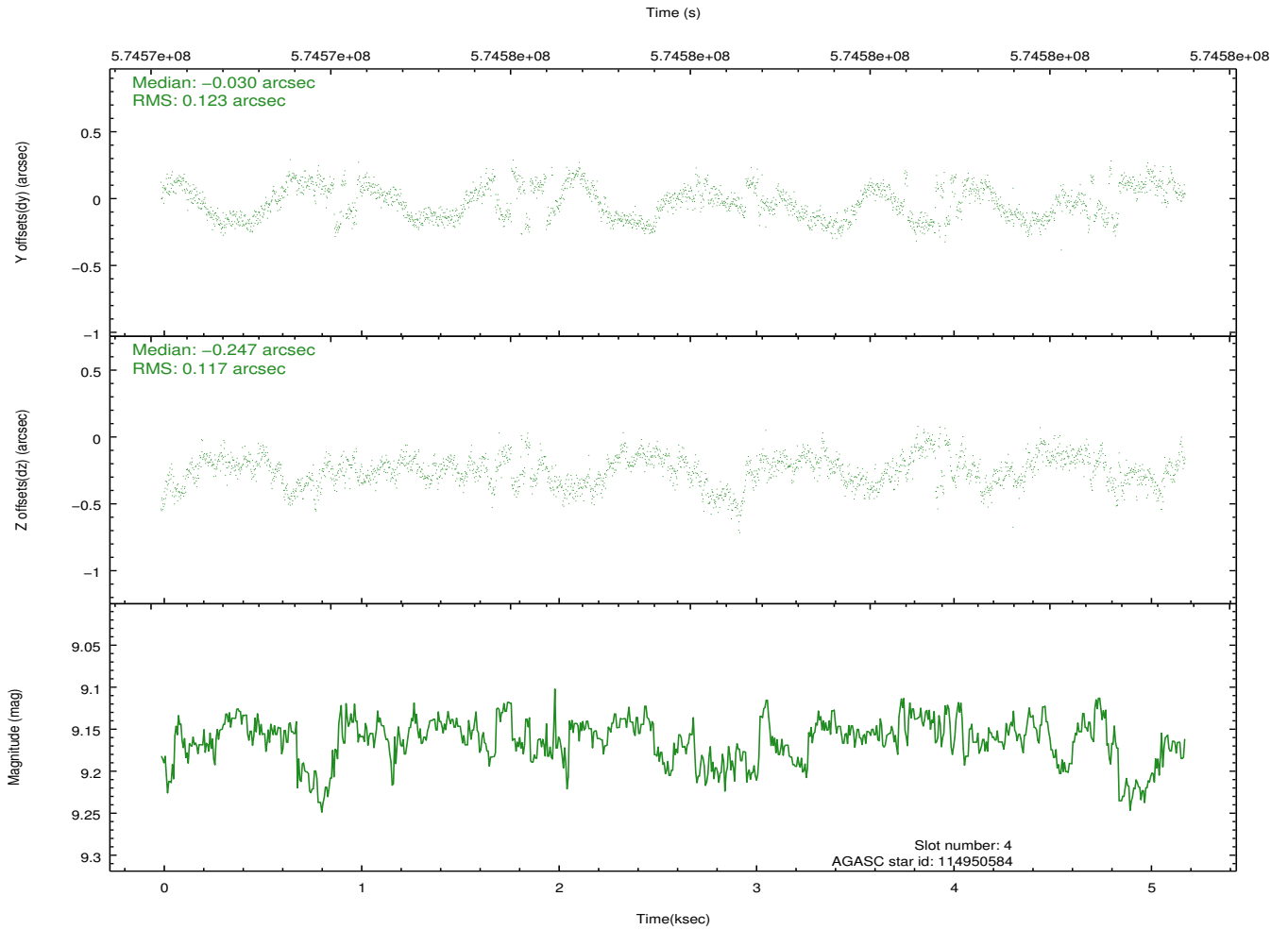
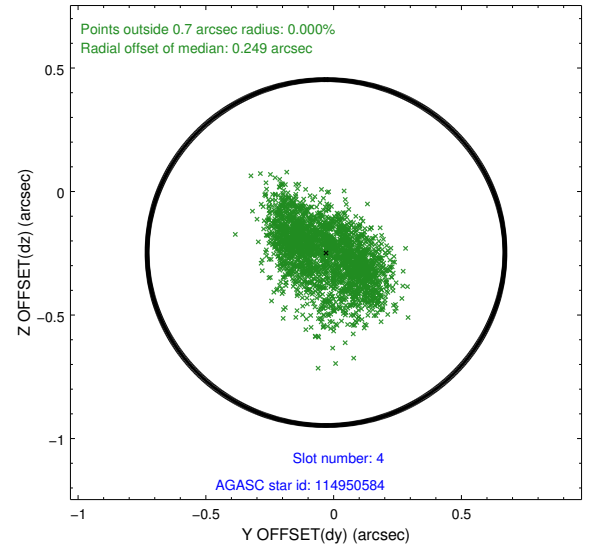
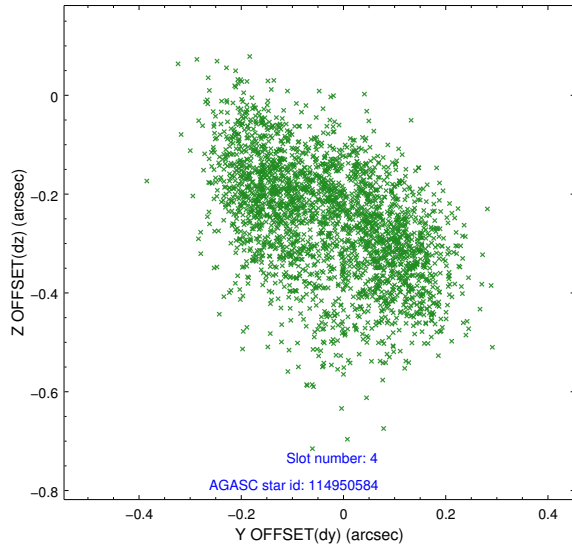
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.11	1265	-0.212	-0.097	0.009	0.015	0.000000	0.000000	-769.21	-1741.86
1	FID		ACIS-S-4	7.22	1265	0.463	0.128	0.006	0.012	0.000000	0.000000	2144.18	165.68
2	FID		ACIS-S-5	7.23	1265	-0.282	-0.022	0.009	0.015	0.000000	0.000000	-1820.66	160.47
3	GUIDE	used	114950168	7.82	2531	-0.398	-0.319	0.109	0.175	187.143398	12.117441	789.77	2130.58
4	GUIDE	used	114950584	9.16	2529	-0.030	-0.247	0.185	0.280	187.487323	11.827248	-804.89	2023.59
5	GUIDE	used	114952792	9.45	2529	-0.209	-0.351	0.138	0.225	187.070263	12.344747	1548.35	1730.90
6	GUIDE	used	114952824	8.56	2531	-0.052	0.346	0.100	0.165	187.703904	12.486727	324.28	-199.26
7	GUIDE	used	114955056	8.32	2529	0.689	0.583	0.106	0.169	187.914001	12.127854	-1110.10	196.82

2.4 Star Slots

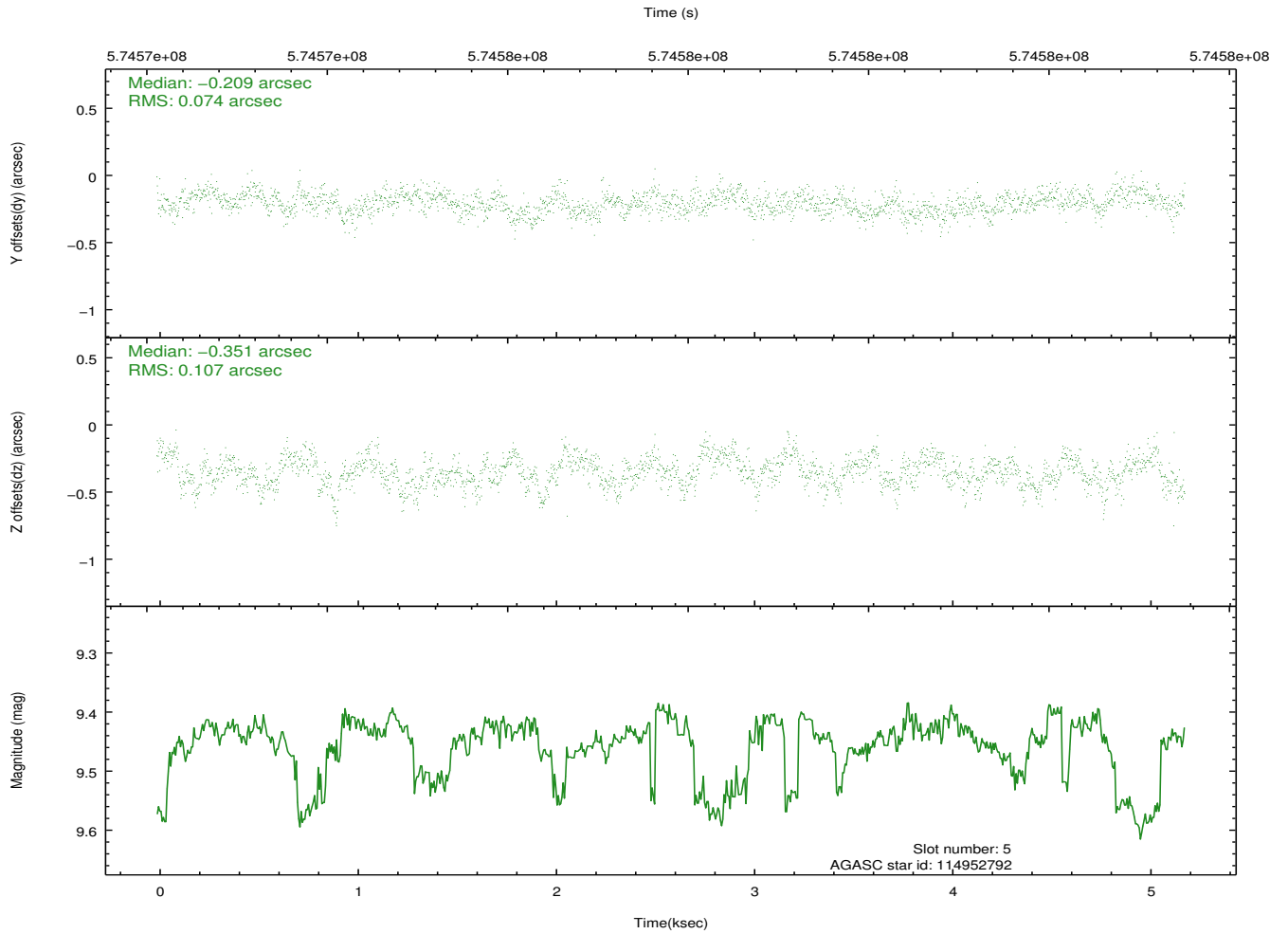
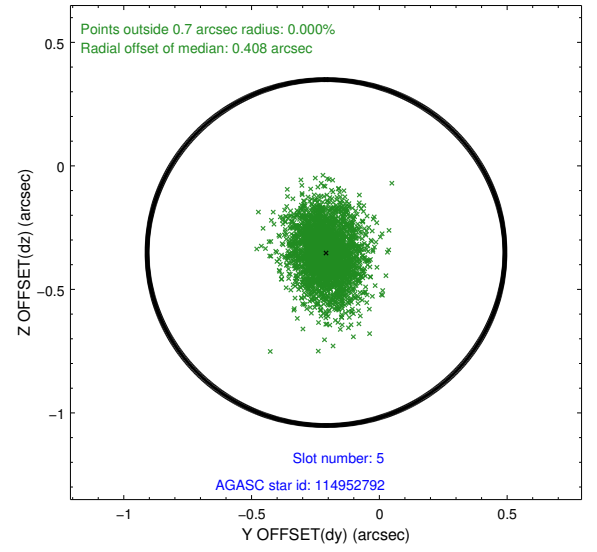
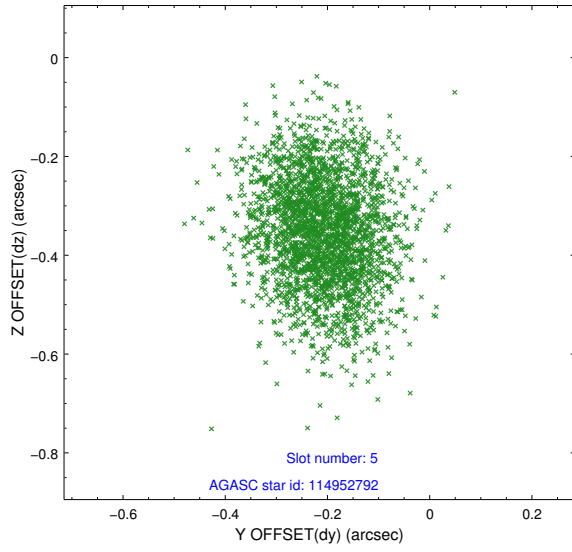
2.4.1 Slot 3



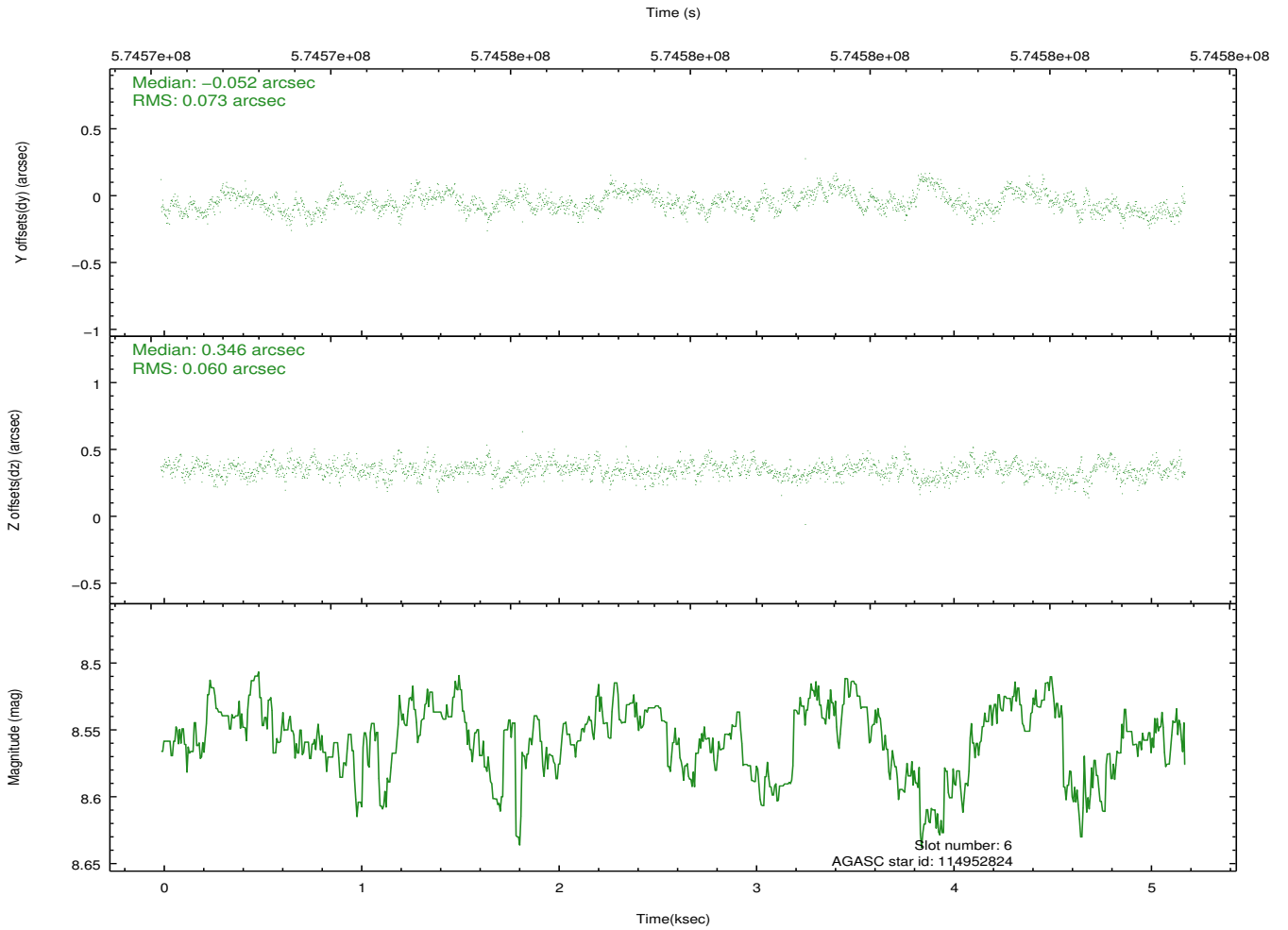
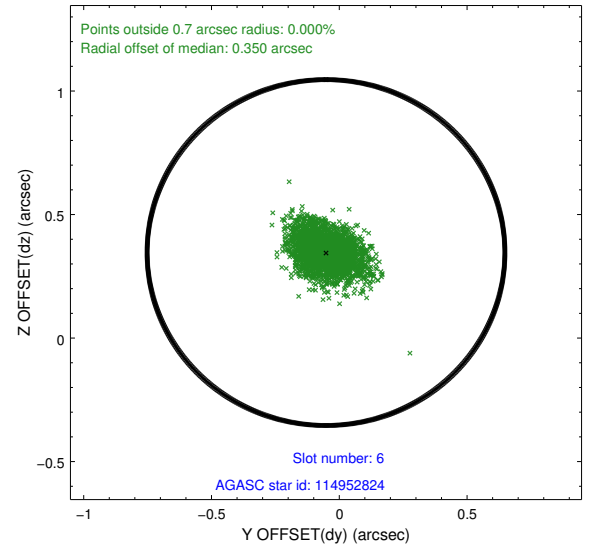
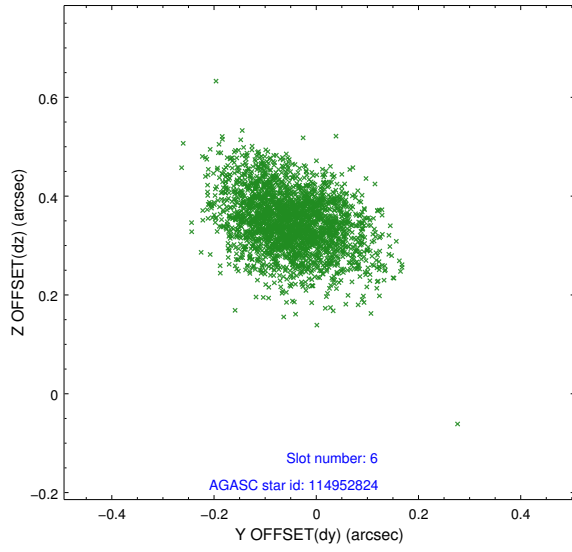
2.4.2 Slot 4



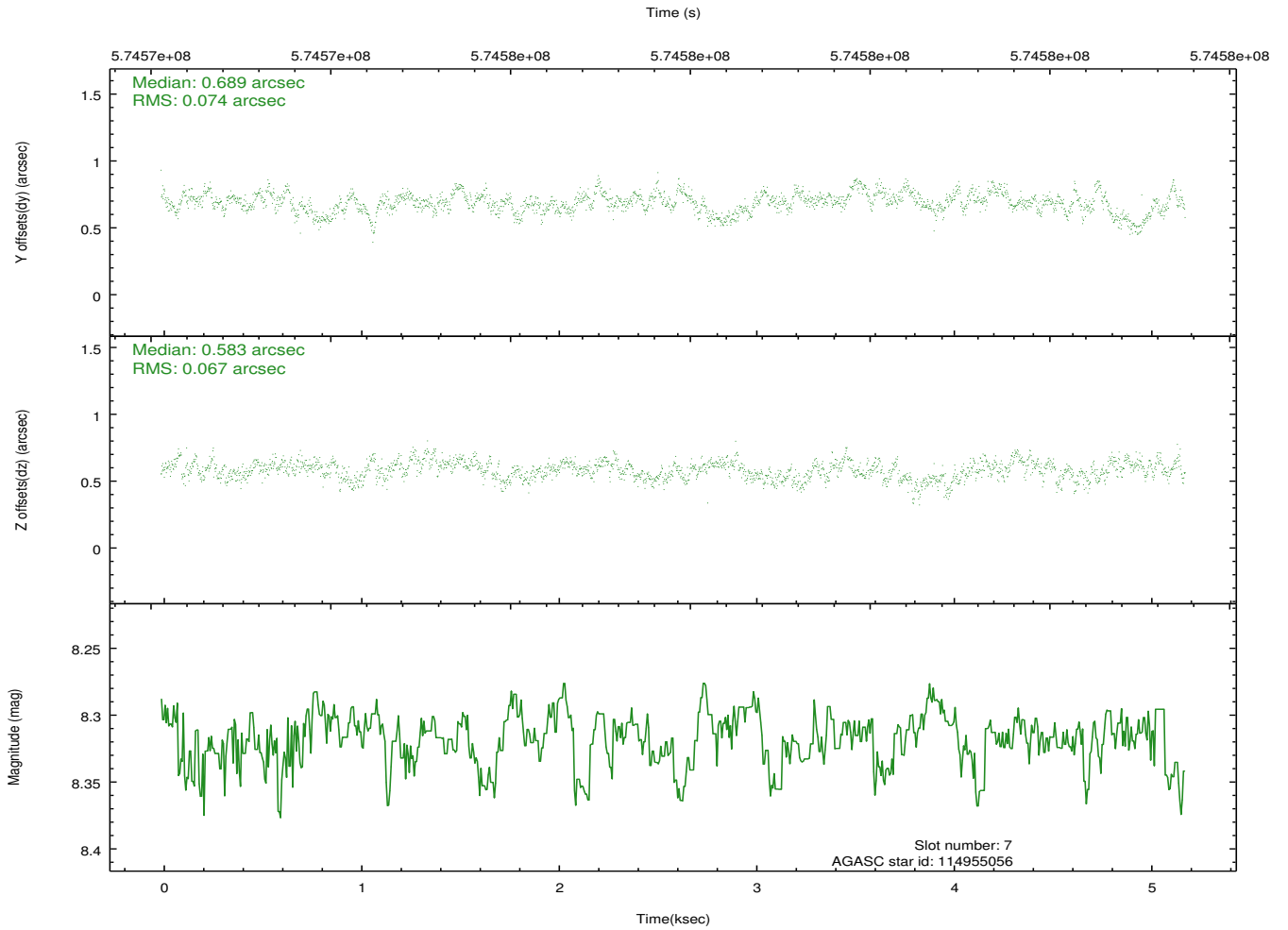
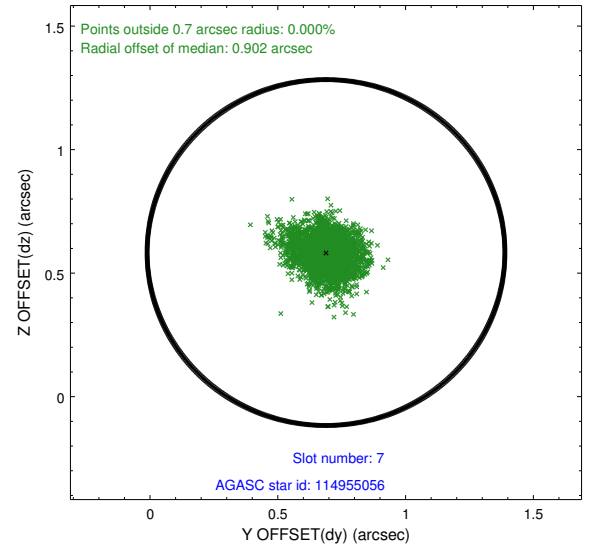
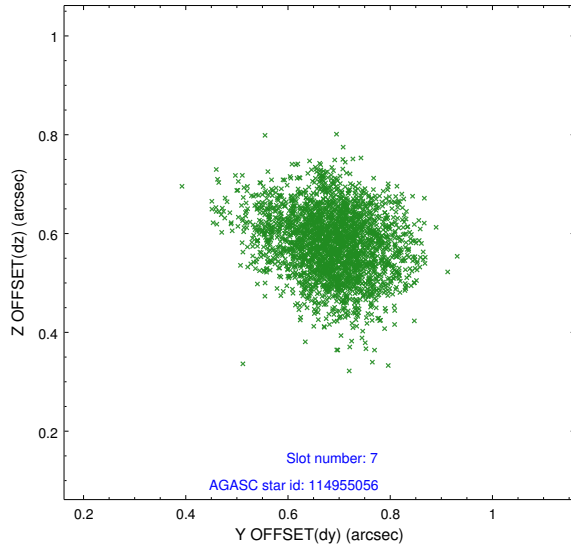
2.4.3 Slot 5



2.4.4 Slot 6

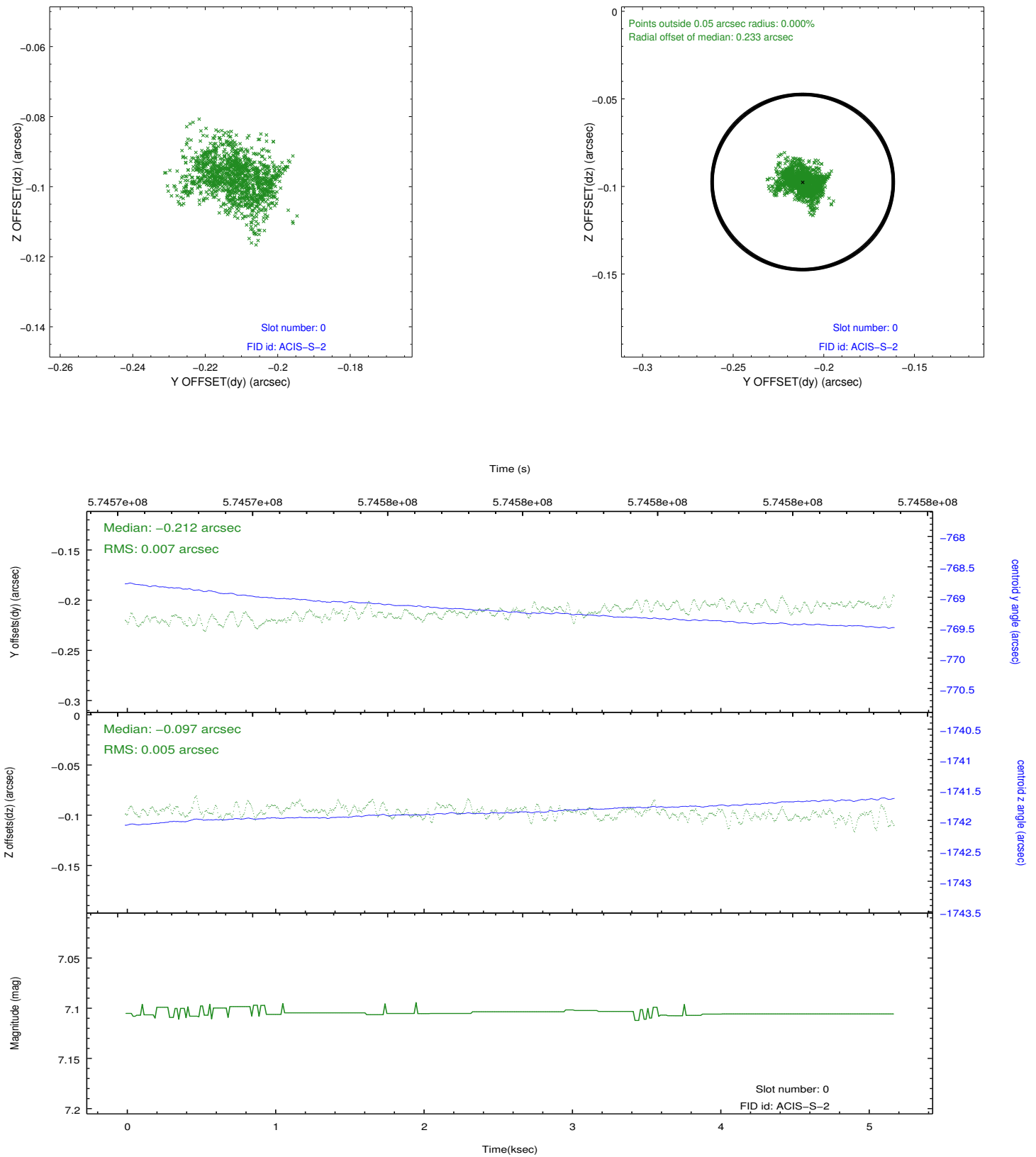


2.4.5 Slot 7

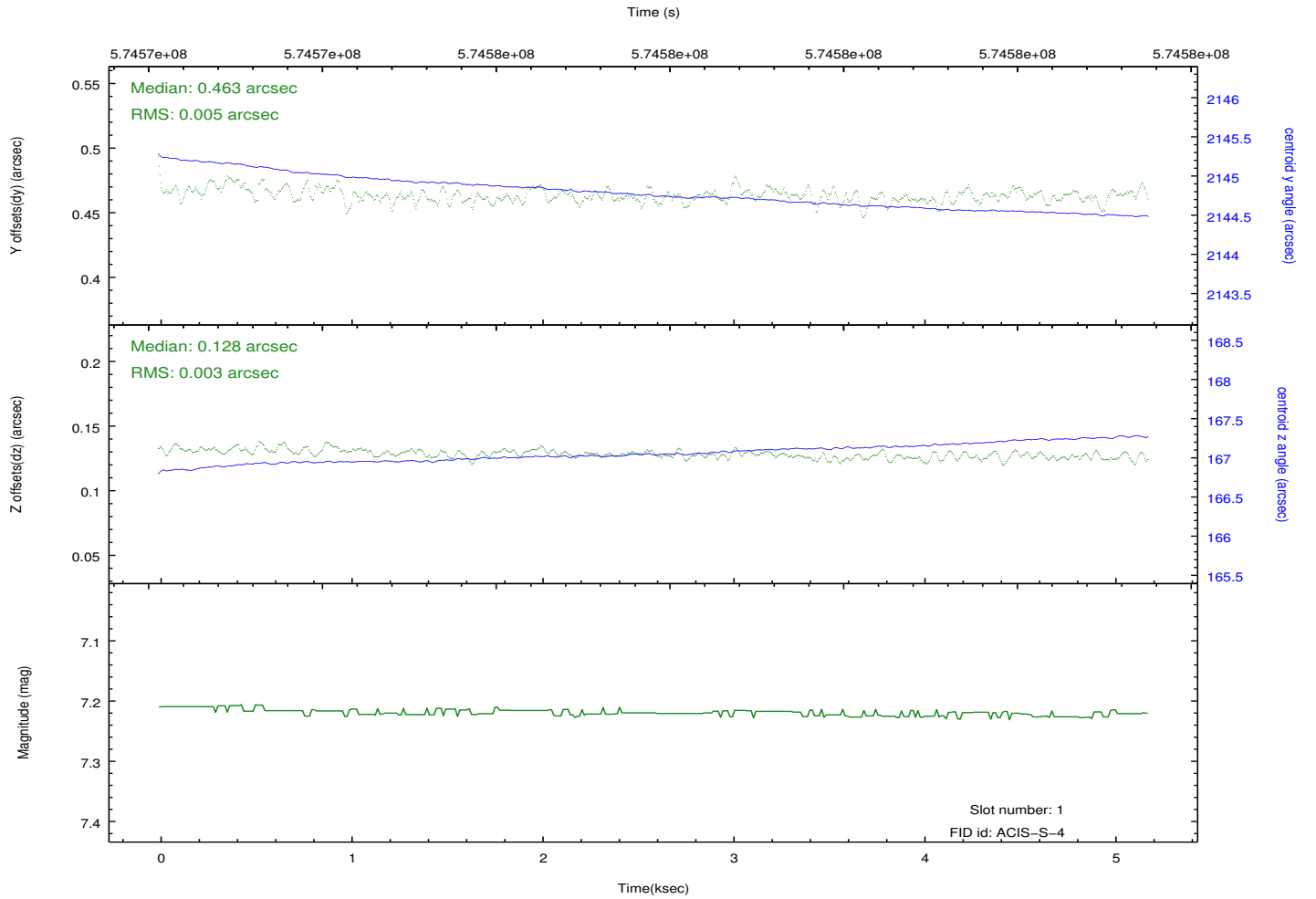
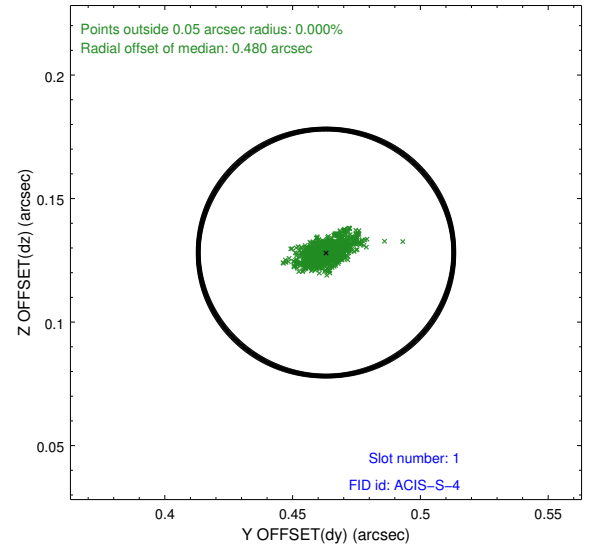
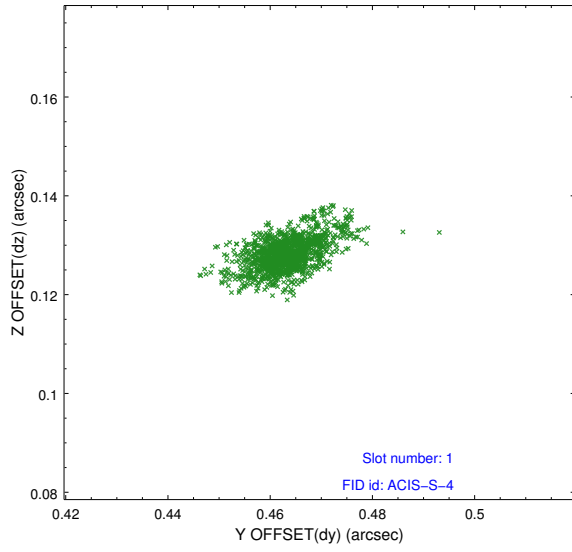


2.5 FID Slots

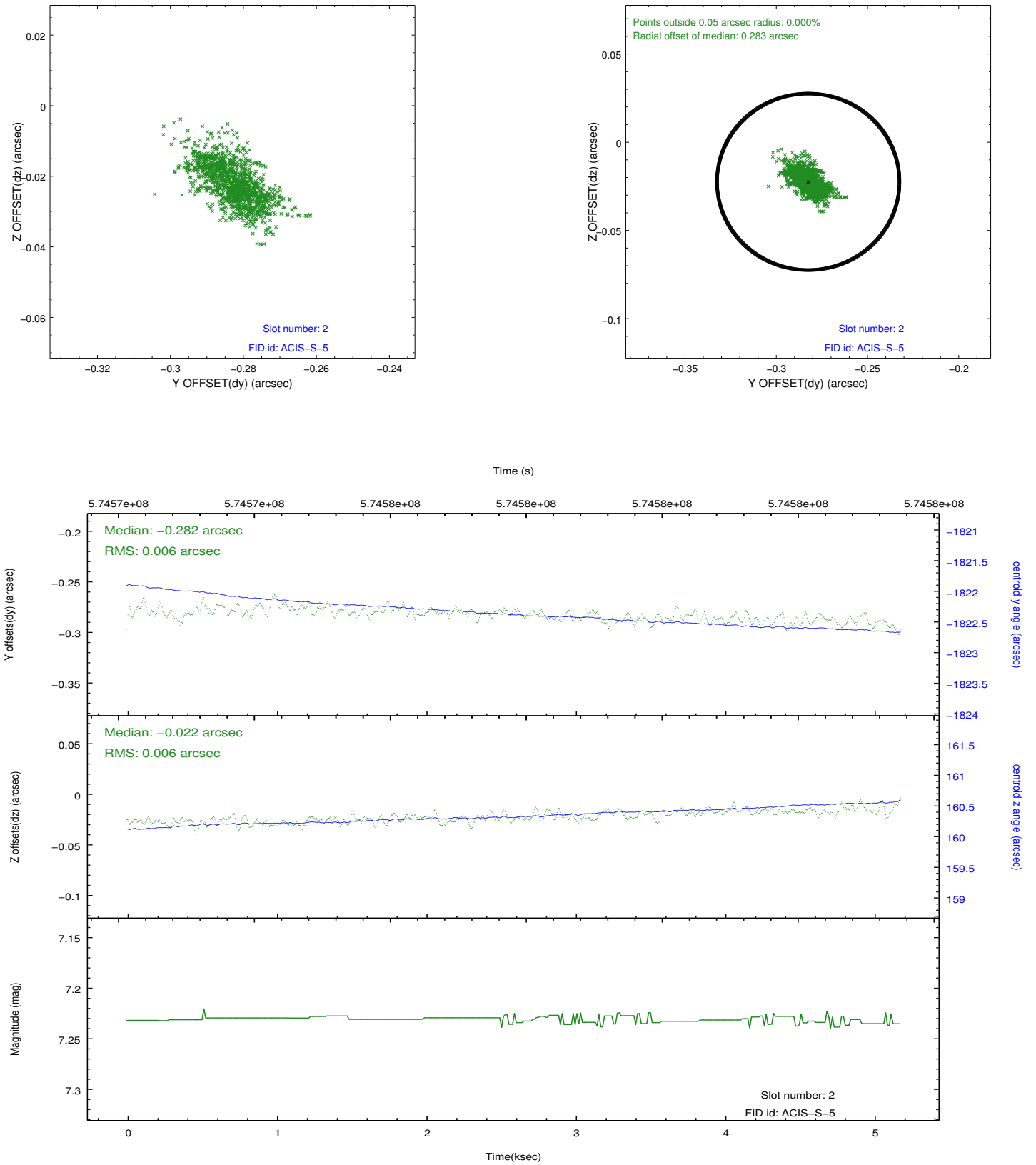
2.5.1 Slot 0



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)	2016.03.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0687681474686

A.2 Comments