

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18810 - L2 Version 1
Chandra X-Ray Center

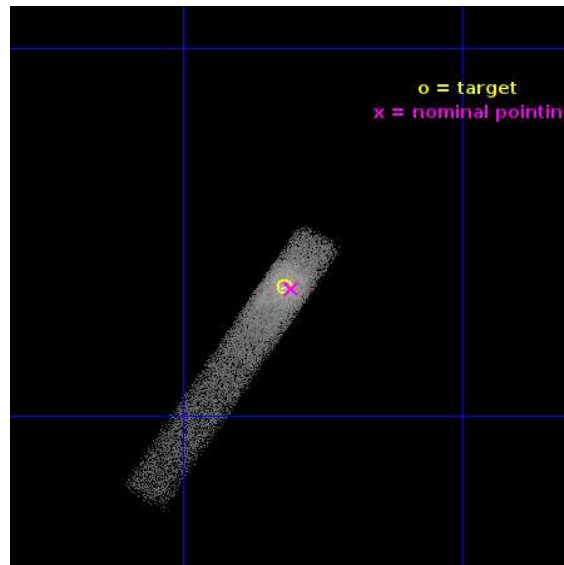
L2 Processing Date : Mar 13 2016

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

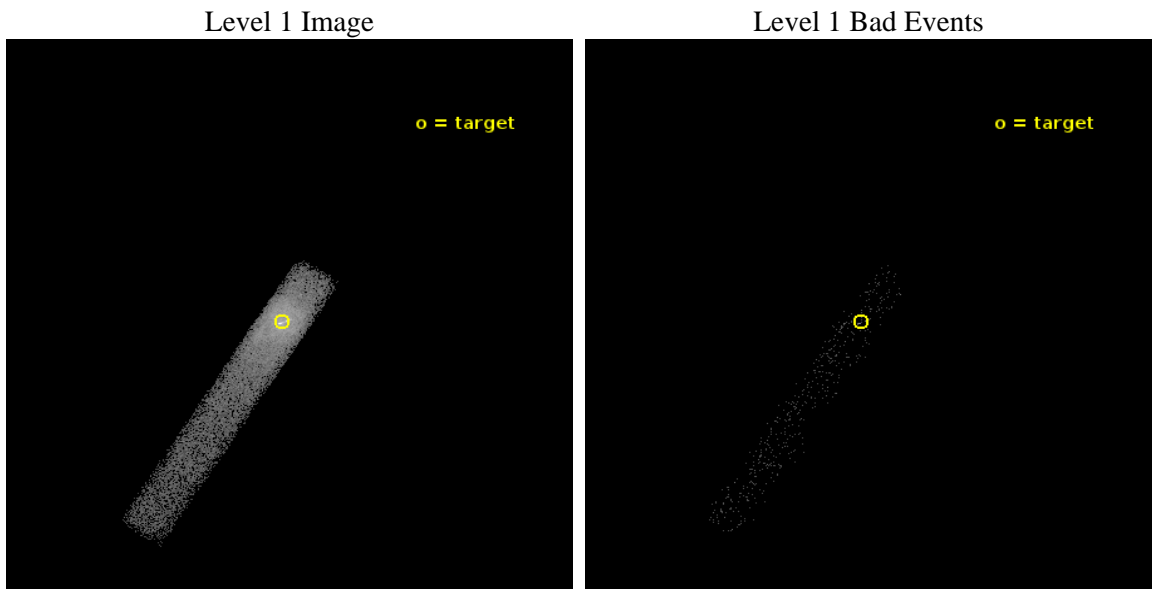
seq_num	703298	Sequence number
obs_id	18810	Observation id
title	Detecting an X-ray Counterpart to an Active TeV Flaring Event in the M87 Jet	Proposal title
observer	C. (Teddy) Cheung	Principal investigator
object	M87	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.704167	Observer's specified target RA [deg]
dec_targ	12.391667	Observer's specified target Dec [deg]
ra_nom	187.7013616315	Nominal RA [deg]
dec_nom	12.390951495842	Nominal Dec [deg]
roll_nom	123.09381076447	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5069.5996977091	Sum of GTIs [s]
liveltime	4597.8593304091	Livetime [s]
ontime7	5069.5996977091	Sum of GTIs [s]
l2events	32619	Number of level 2 events



2 OBI

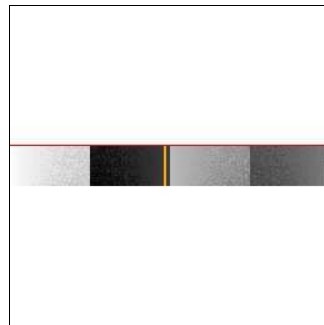
2.1 OBI

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	5069.5996977091	Sum of GTIs [s]
caldbver	4.7.0	 	ontime7	5069.5996977091	Sum of GTIs [s]
date	2016-03-13T15:34:24	Date and time of file creation	l1events	35926	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

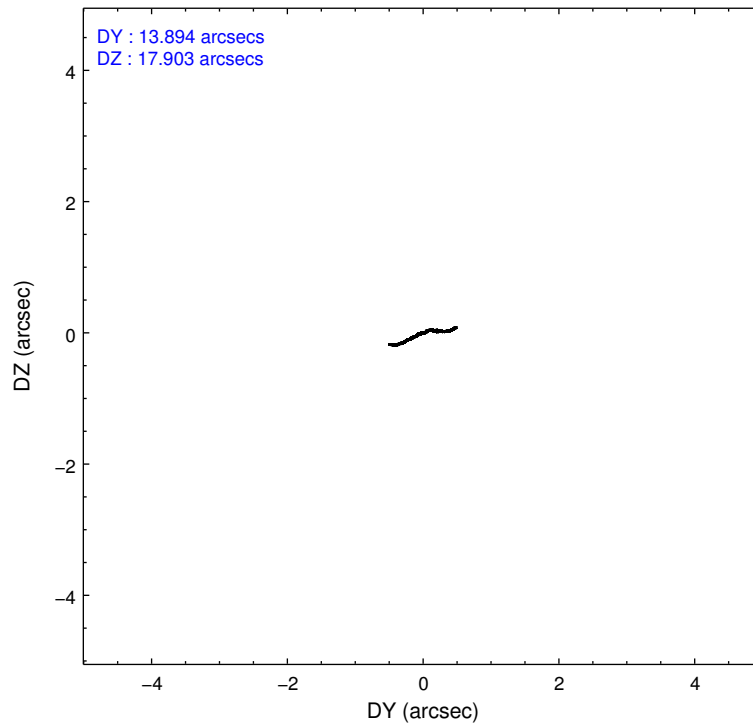
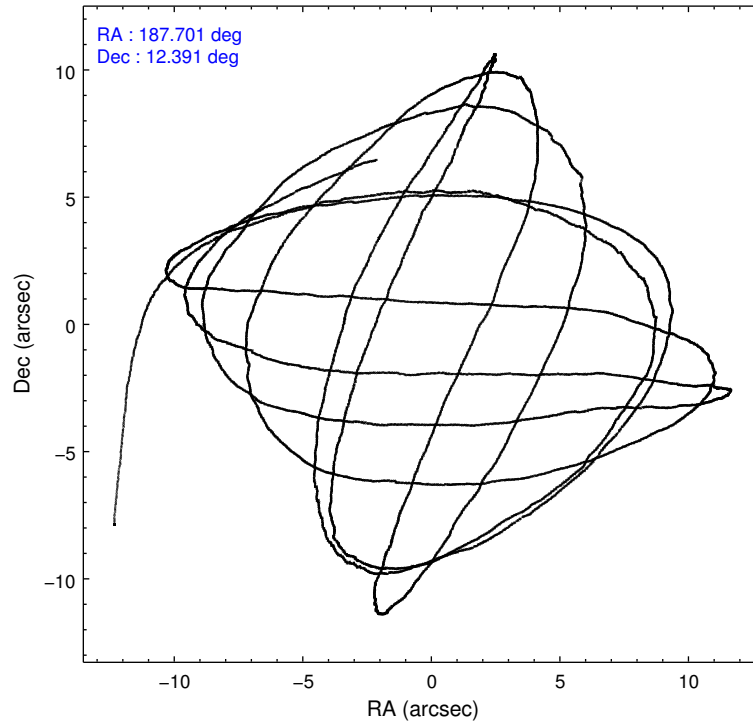
	ccd 7
level 1 events	35926
rejected events	2976
rejected %	8%

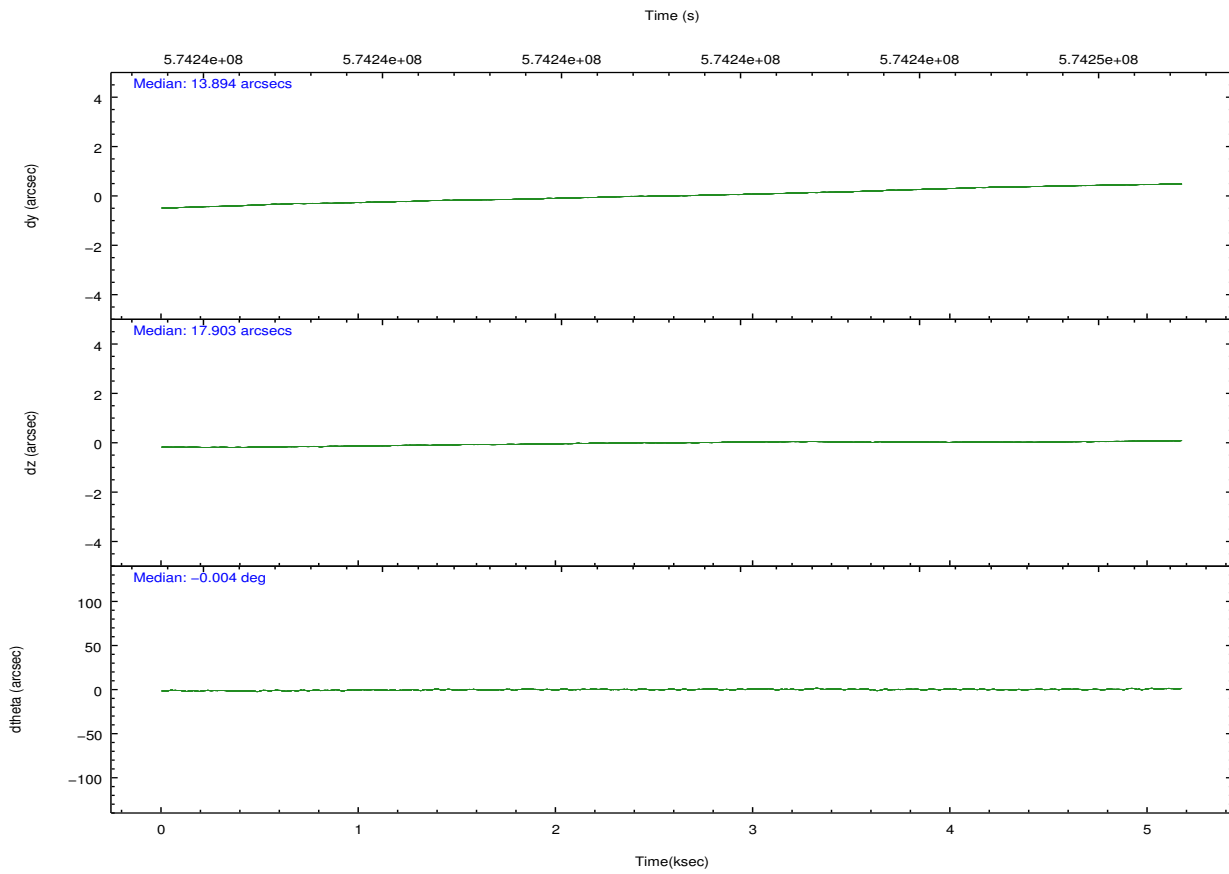
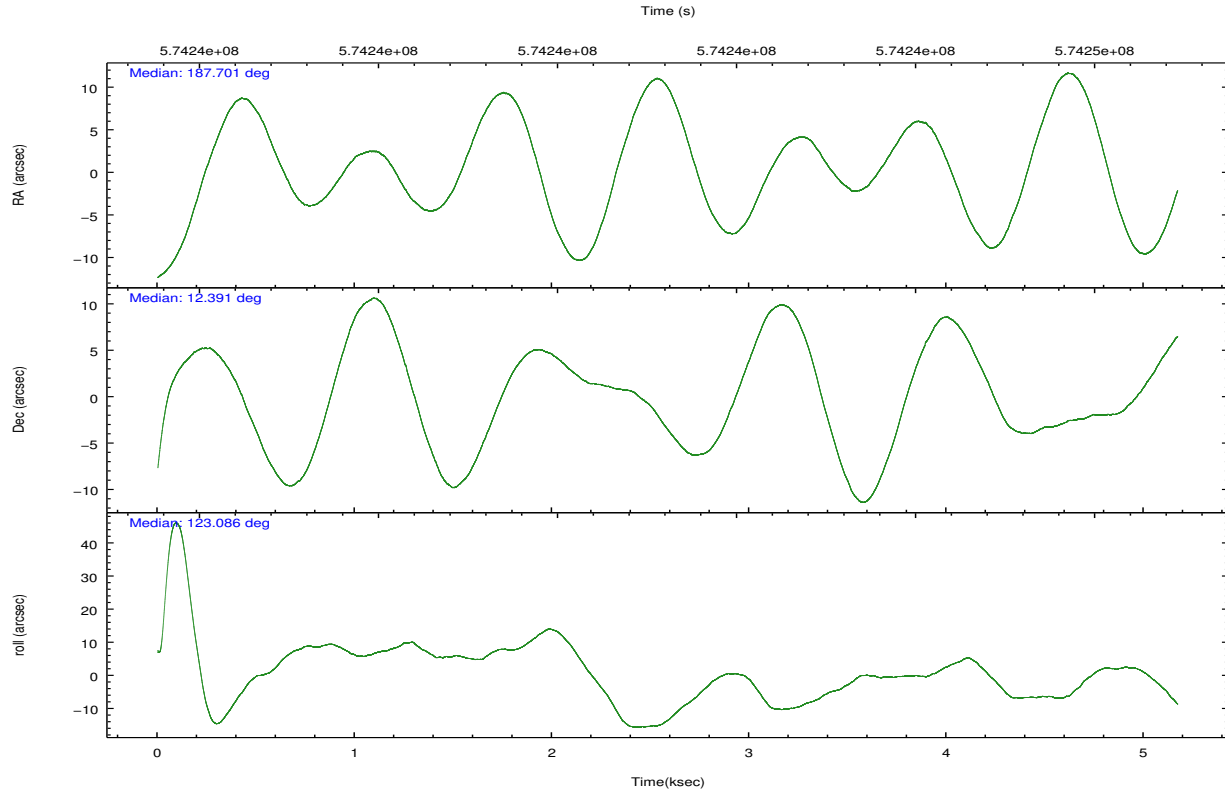
	ccd 7
grade 0 events	9359
	26%
grade 1 events	14
	0%
grade 2 events	8591
	23%
grade 3 events	3872
	10%
grade 4 events	3842
	10%
grade 5 events	728
	2%
grade 6 events	7294
	20%
grade 7 events	2226
	6%

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	187.726707	187.7013616315032	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	12.378853	12.39095149584177	Subarray start row	449	449
[deg] Pointing Roll	122.931840	123.0938107644709	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)	574241199.184000	574240165.08061			
Observation start date	2016-03-13T07:25:31	2016-03-13T07:09:25			
[s] Observation end time (MET)	574246199.184000	574246666.65598			
Observation end date	2016-03-13T08:48:51	2016-03-13T08:57:46			
Read mode	TIMED	TIMED			

2.3 Aspect





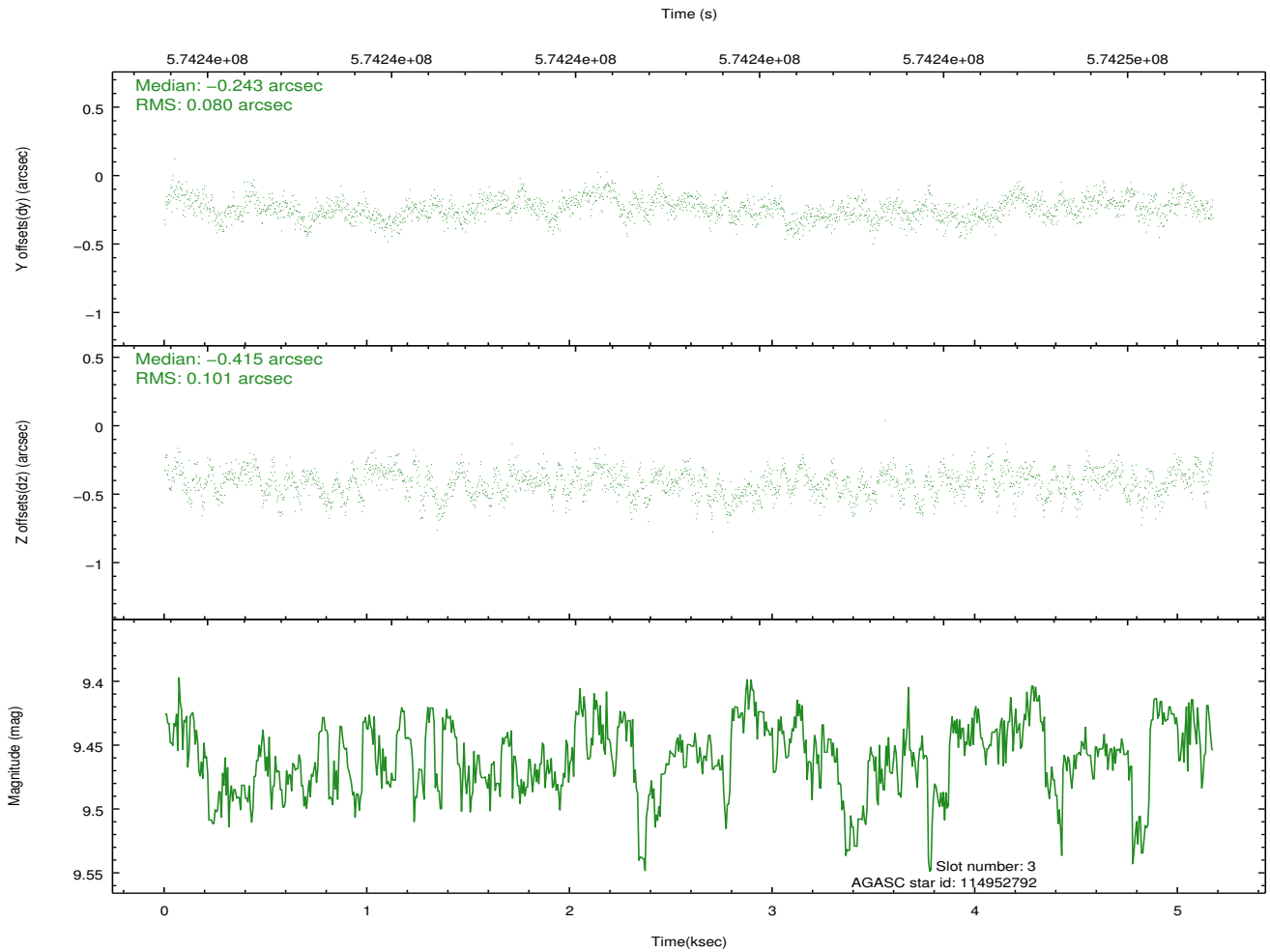
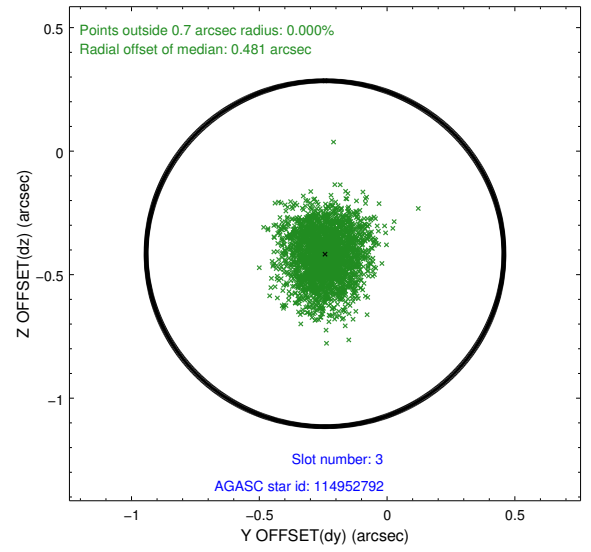
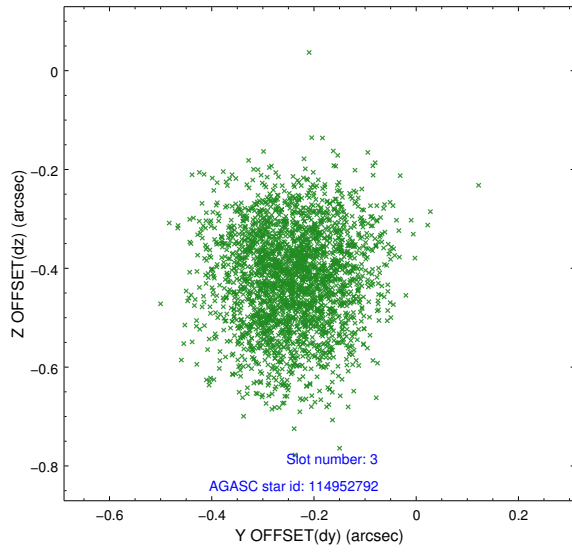
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.10	1262	-0.144	-0.147	0.018	0.026	0.000000	0.000000	-767.01	-1739.47
1	FID		ACIS-S-4	7.21	1262	0.457	0.109	0.015	0.025	0.000000	0.000000	2146.34	168.04
2	FID		ACIS-S-5	7.23	1262	-0.341	0.046	0.011	0.019	0.000000	0.000000	-1818.53	163.00
3	GUIDE	used	114952792	9.46	2519	-0.243	-0.415	0.139	0.223	187.070263	12.344747	1154.07	2003.93
4	GUIDE	used	114952824	8.54	2522	-0.075	0.223	0.147	0.219	187.703904	12.486727	370.19	-142.47
5	GUIDE	used	114956184	10.14	2476	0.064	0.130	0.278	0.456	187.851931	11.755121	-2124.58	849.67
6	GUIDE	used	114956608	9.64	2519	0.090	-0.123	0.170	0.278	187.452443	11.725979	-1447.57	2090.07
7	GUIDE	used	115347520	10.14	2435	0.104	0.184	0.305	0.478	187.517505	12.810279	1702.85	-227.38

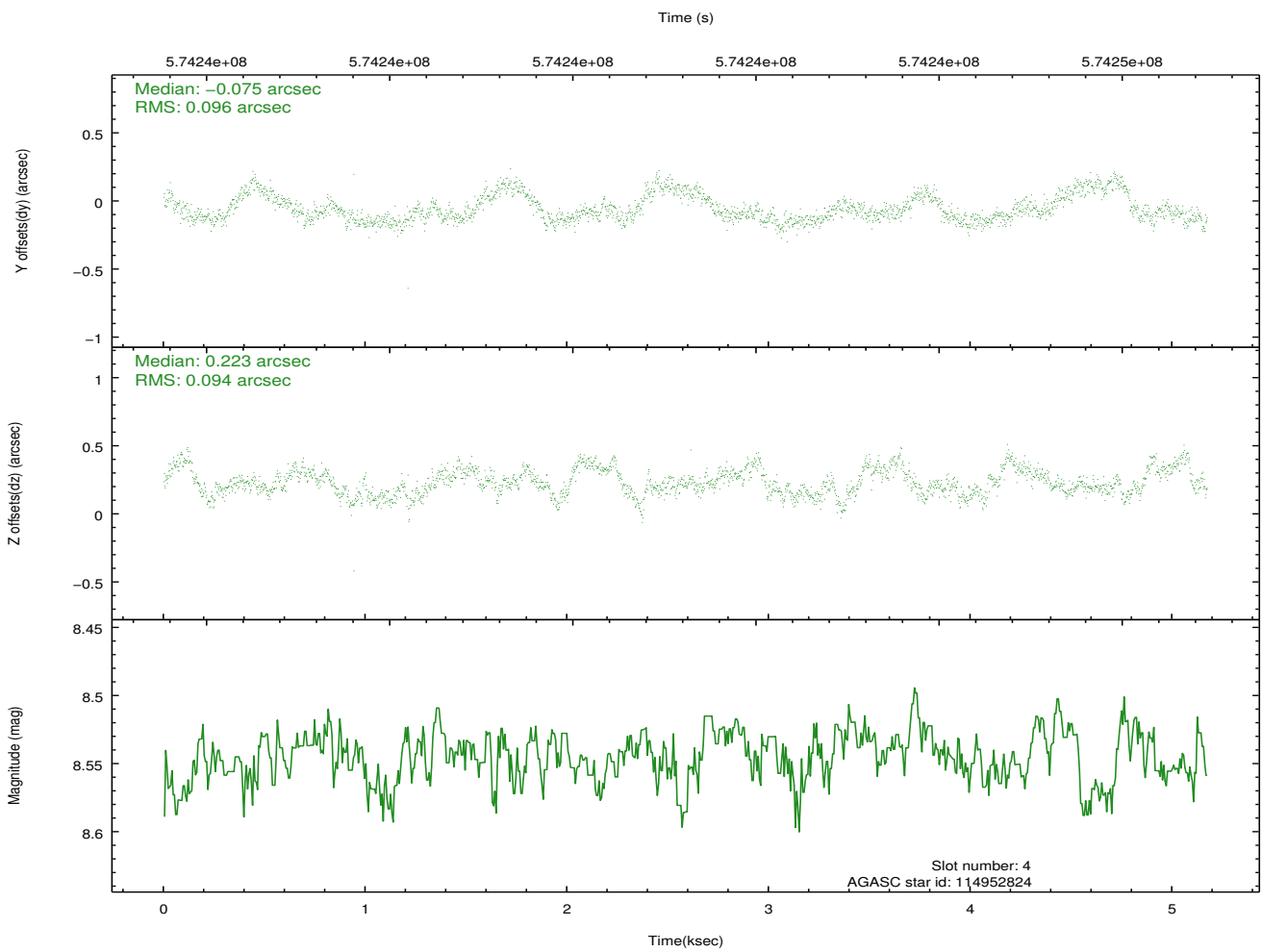
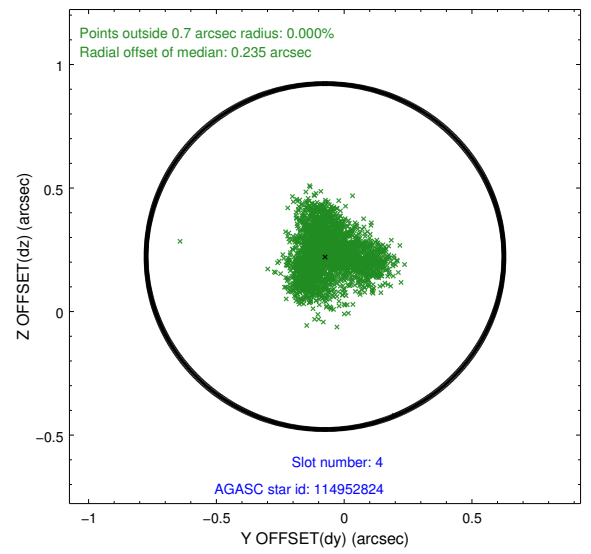
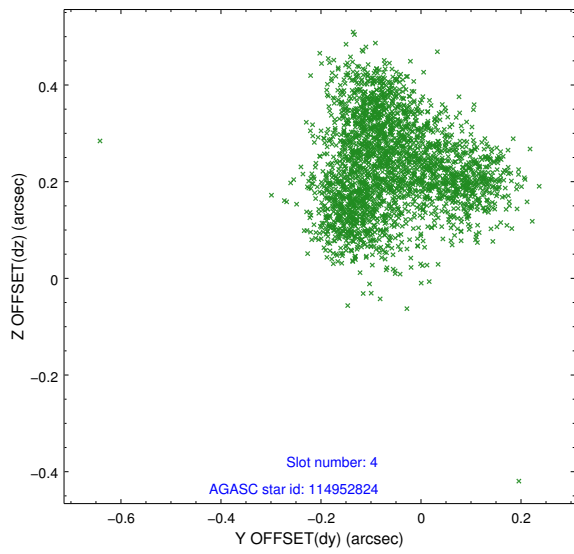
∞

2.4 Star Slots

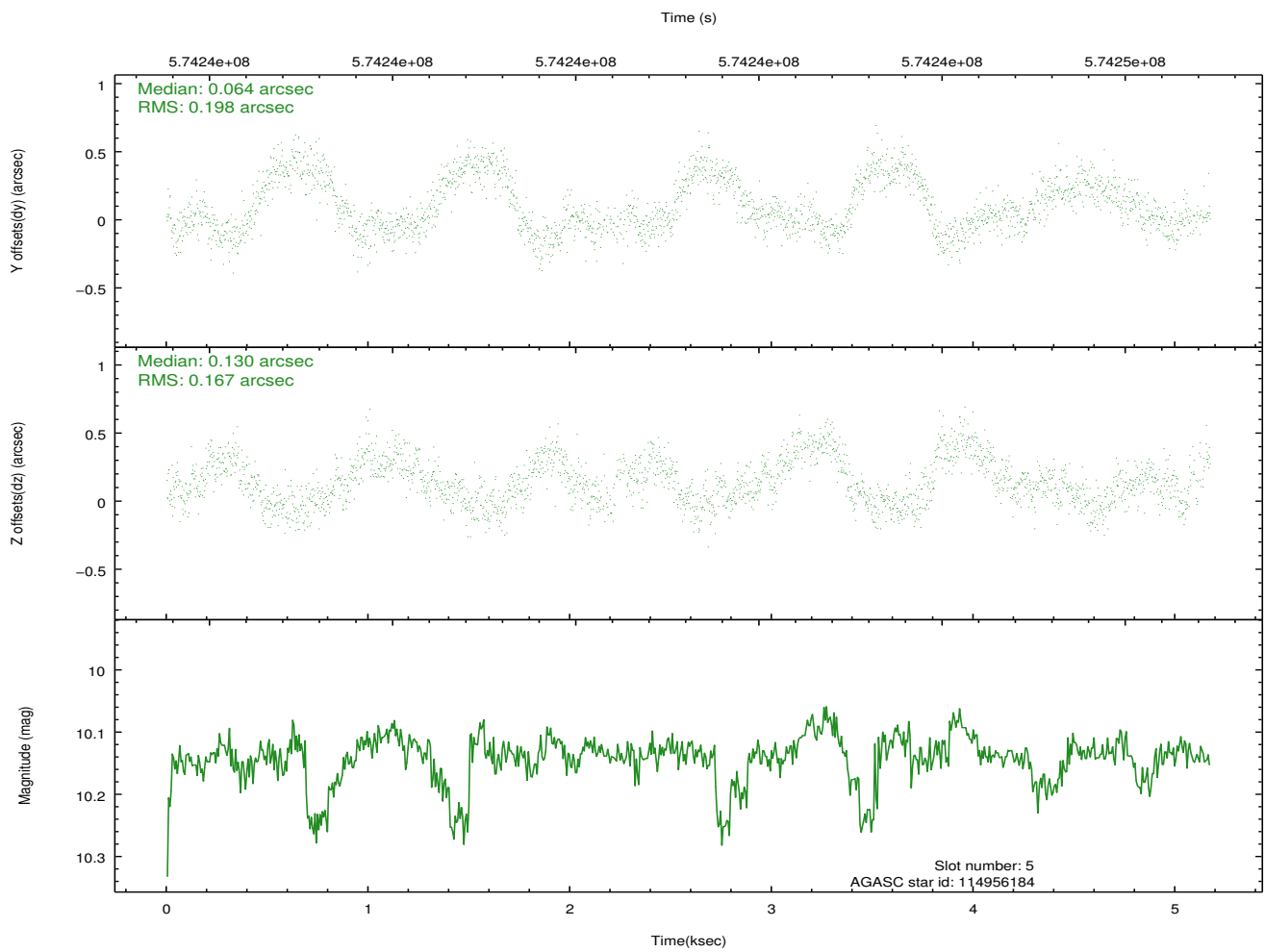
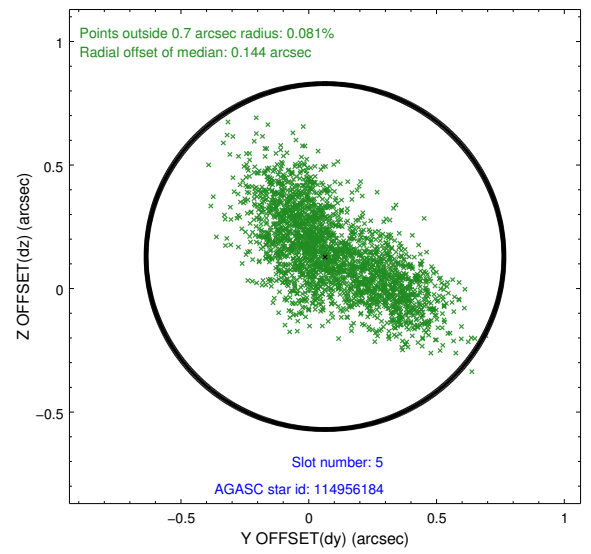
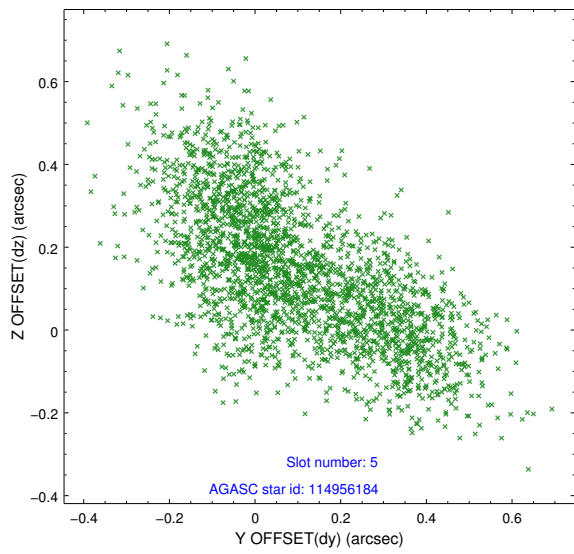
2.4.1 Slot 3



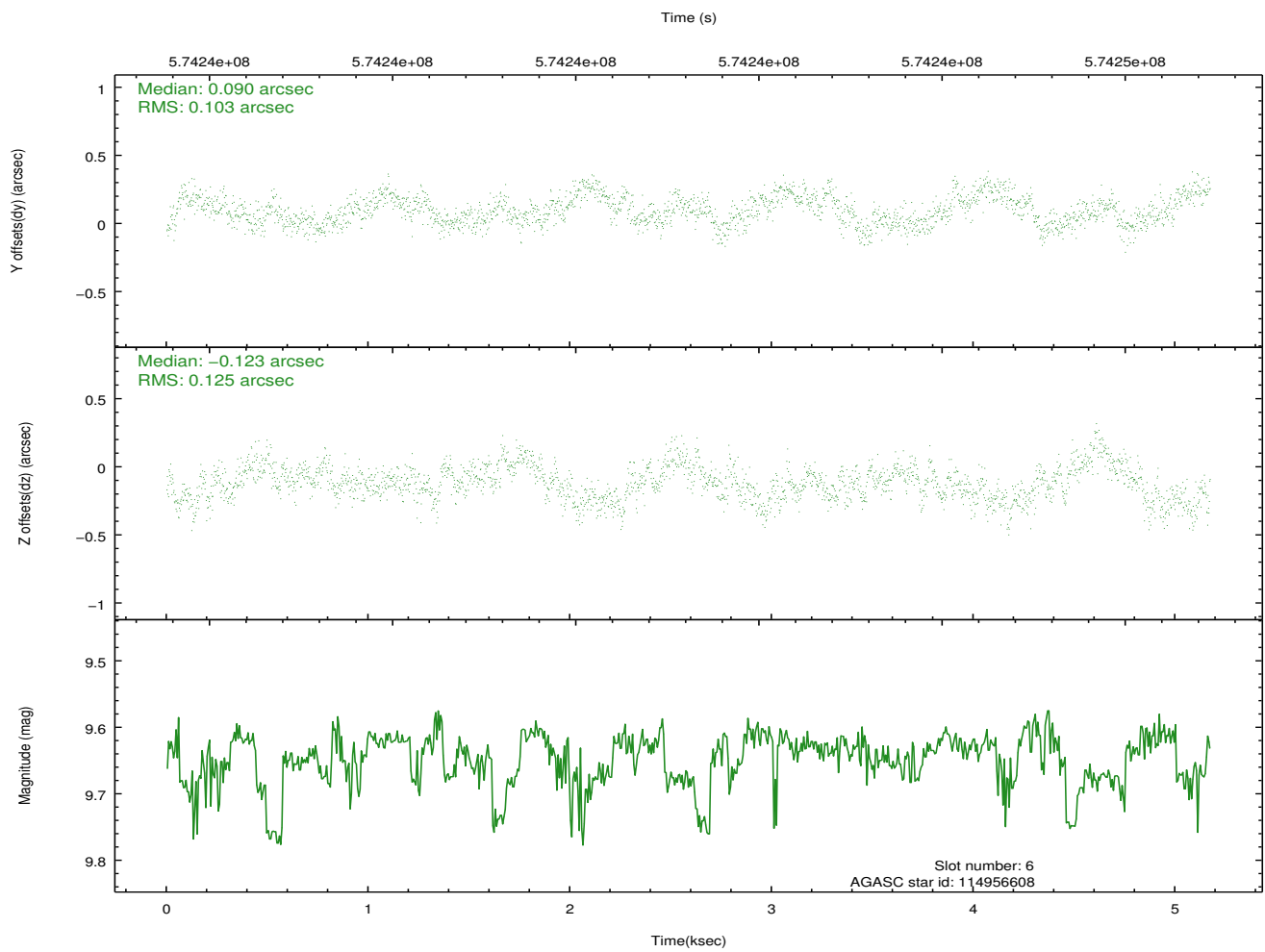
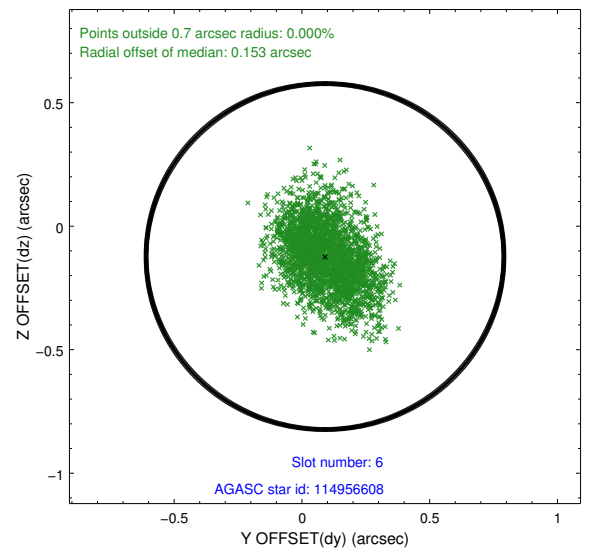
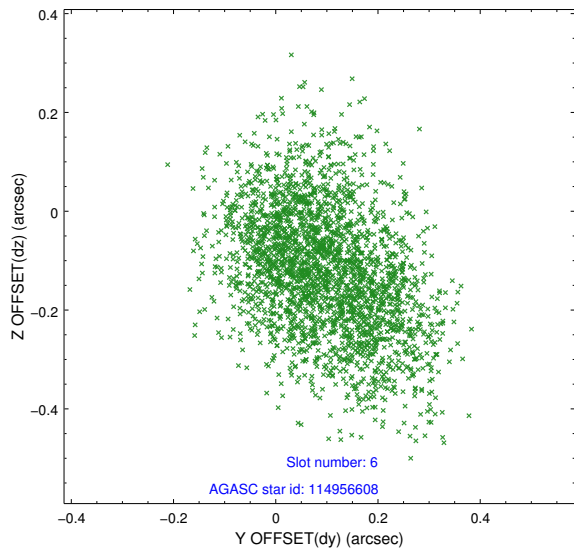
2.4.2 Slot 4



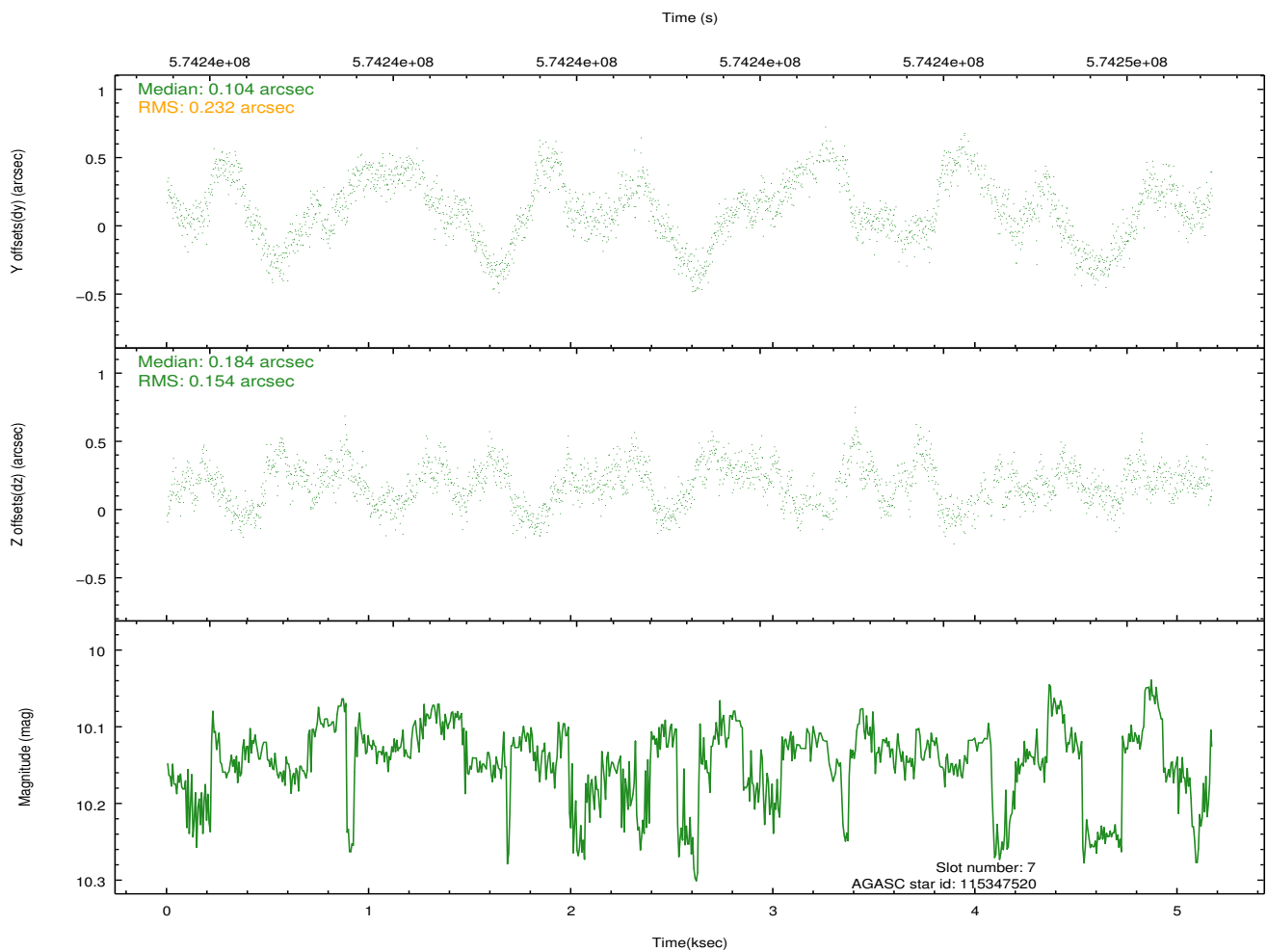
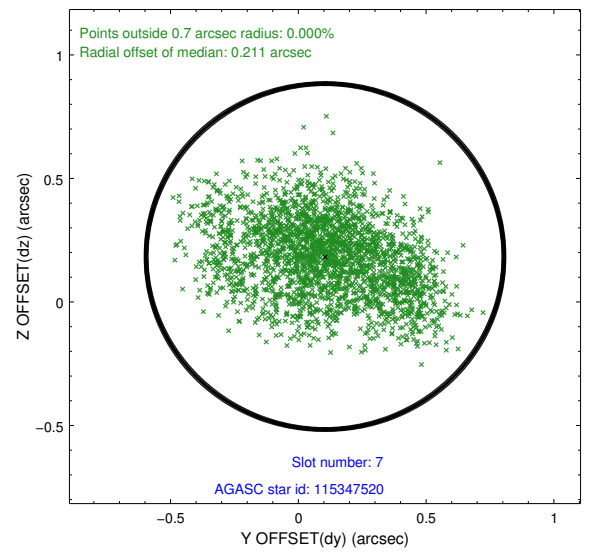
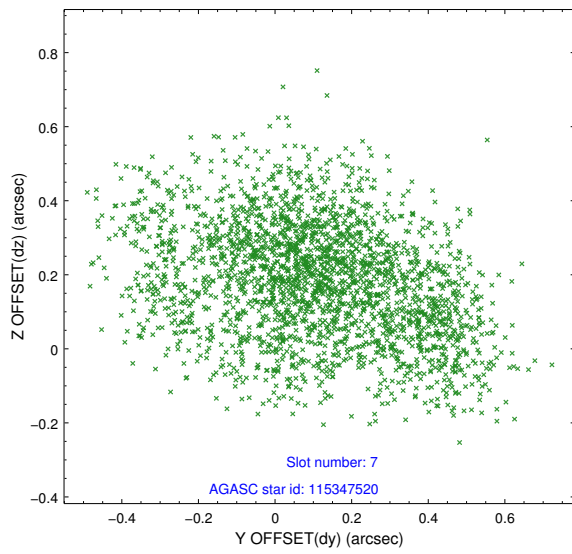
2.4.3 Slot 5



2.4.4 Slot 6

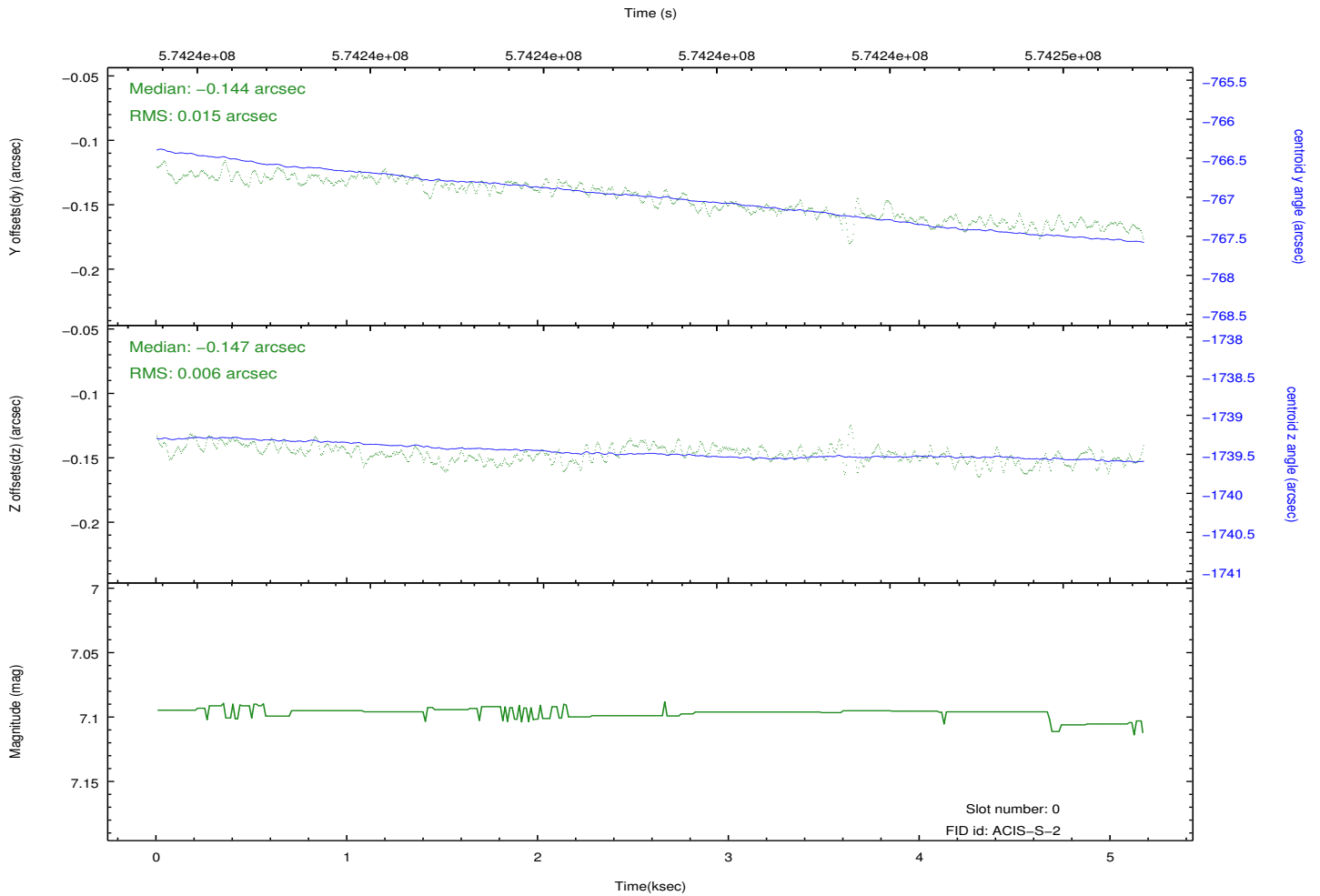
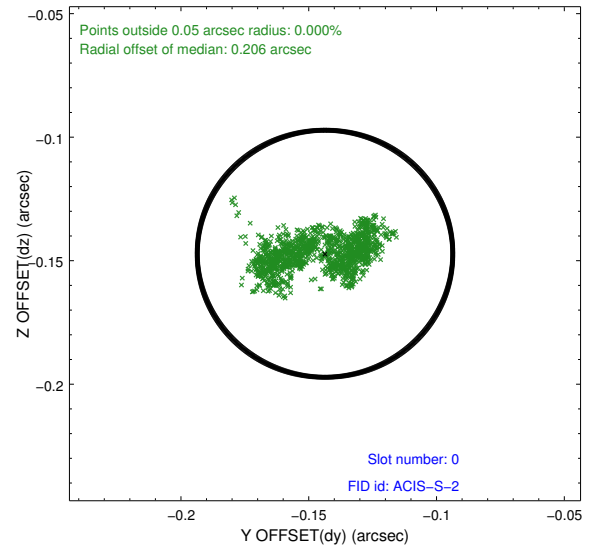
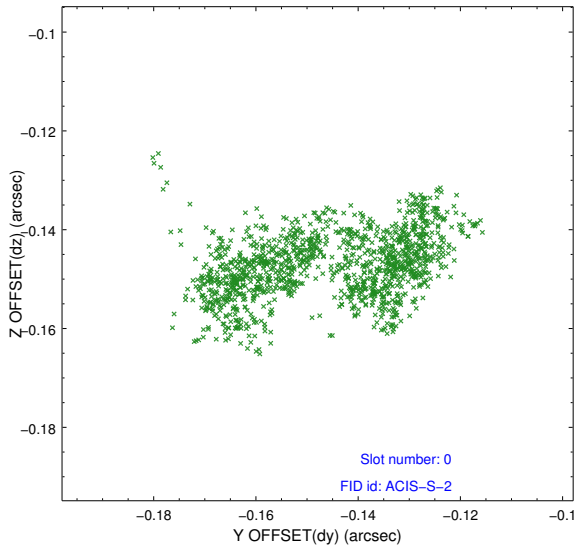


2.4.5 Slot 7

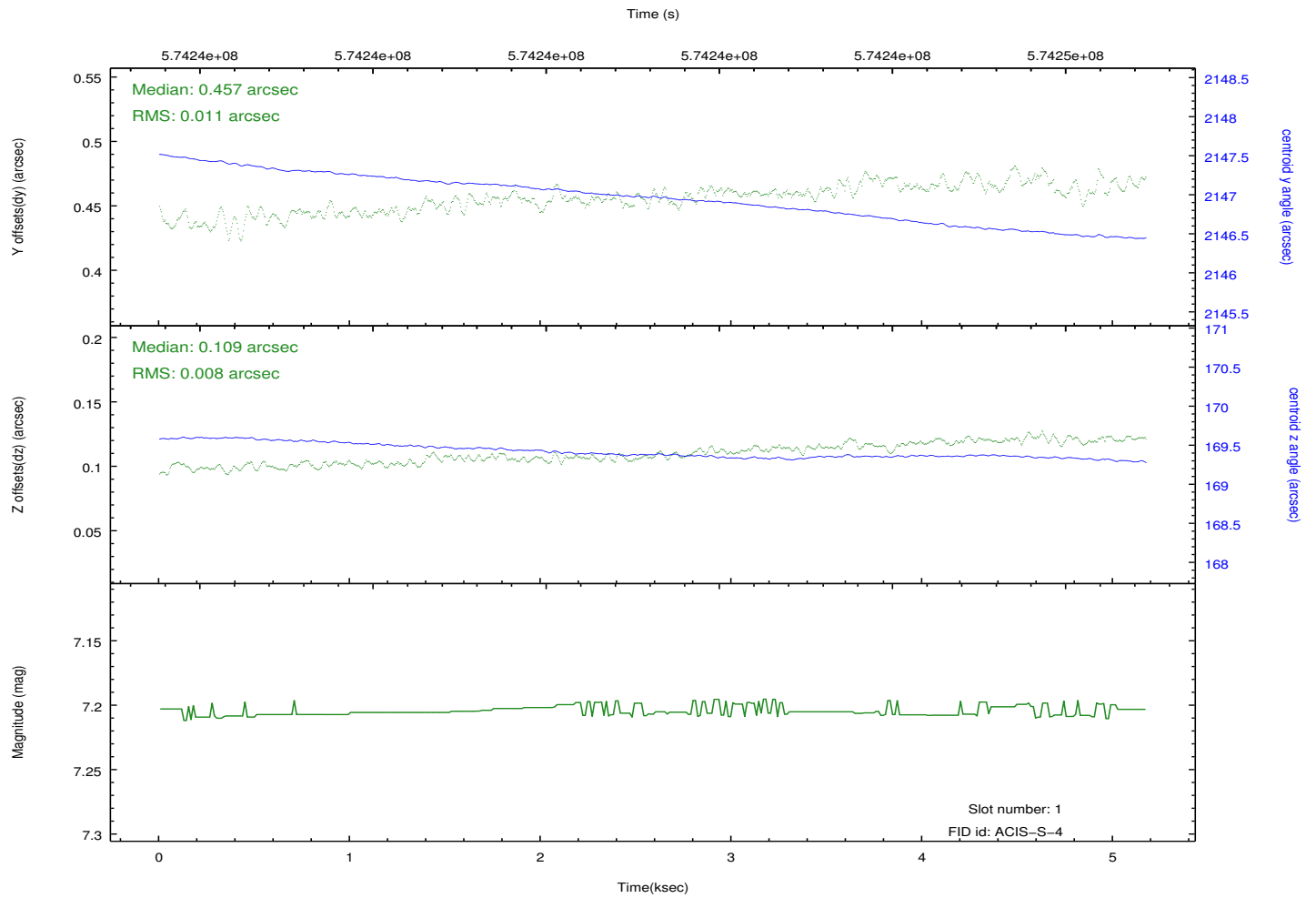
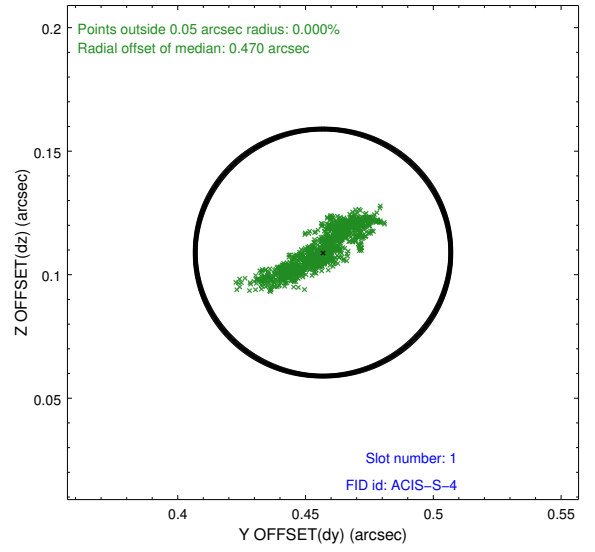
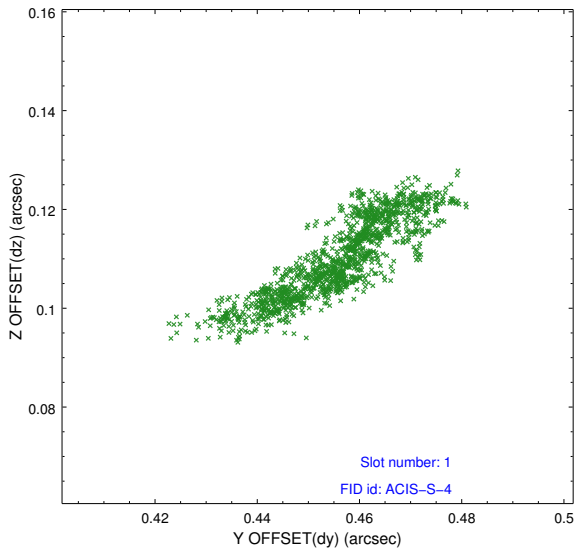


2.5 FID Slots

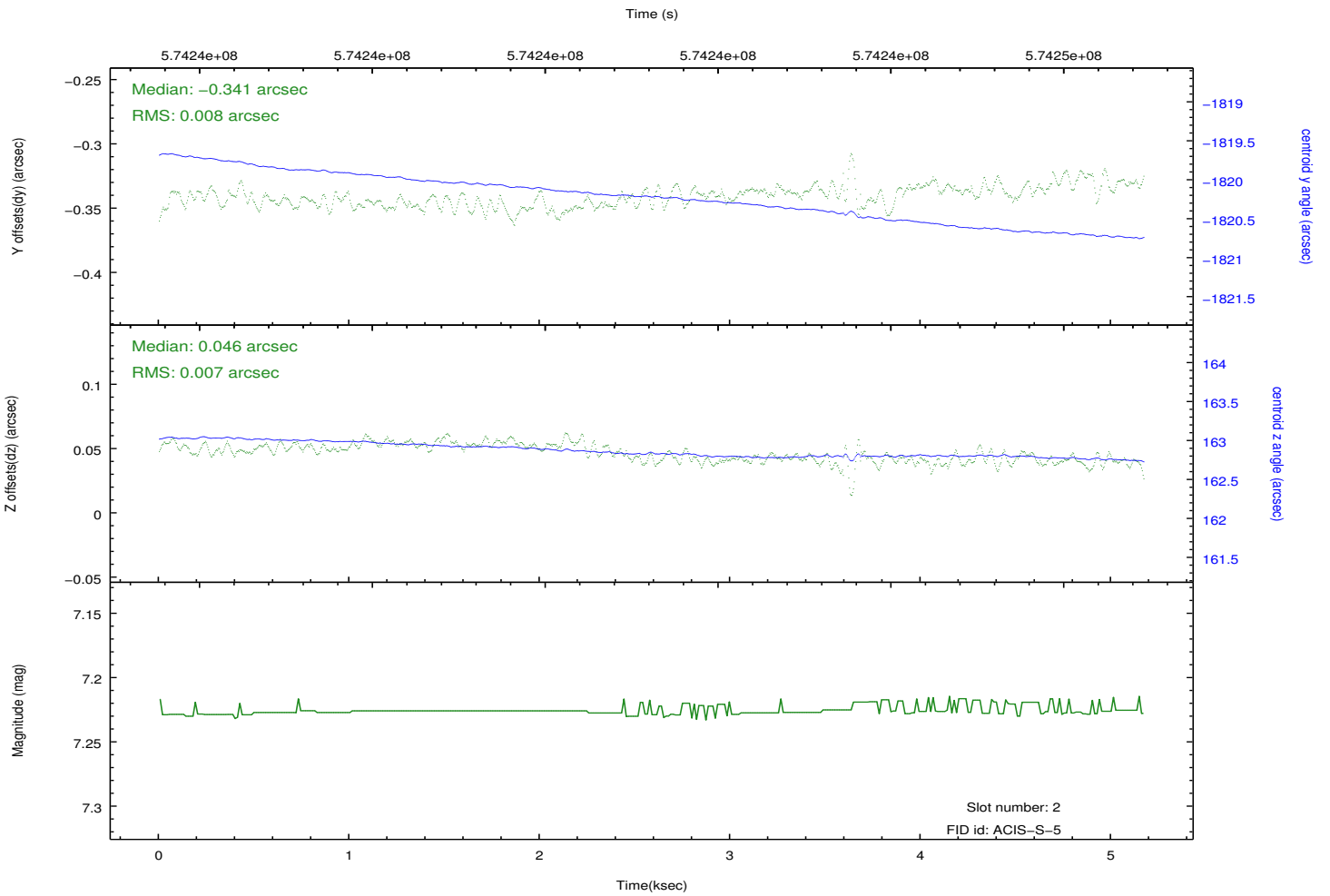
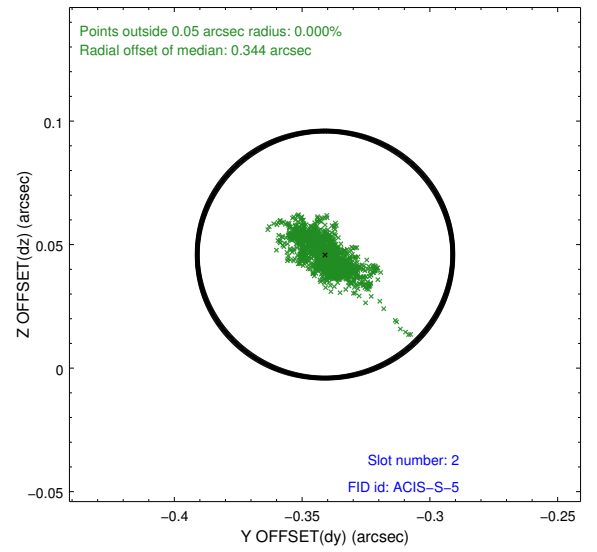
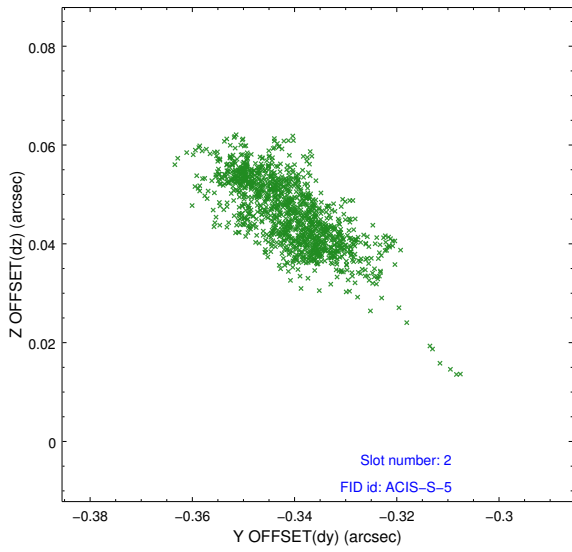
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2016.03.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0695996977091

A.2 Comments