

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18803 - L2 Version 1
Chandra X-Ray Center

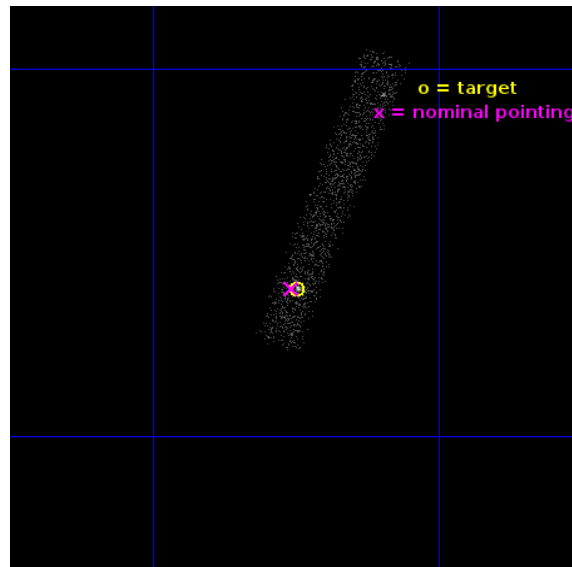
L2 Processing Date : Mar 9 2016

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1 Front

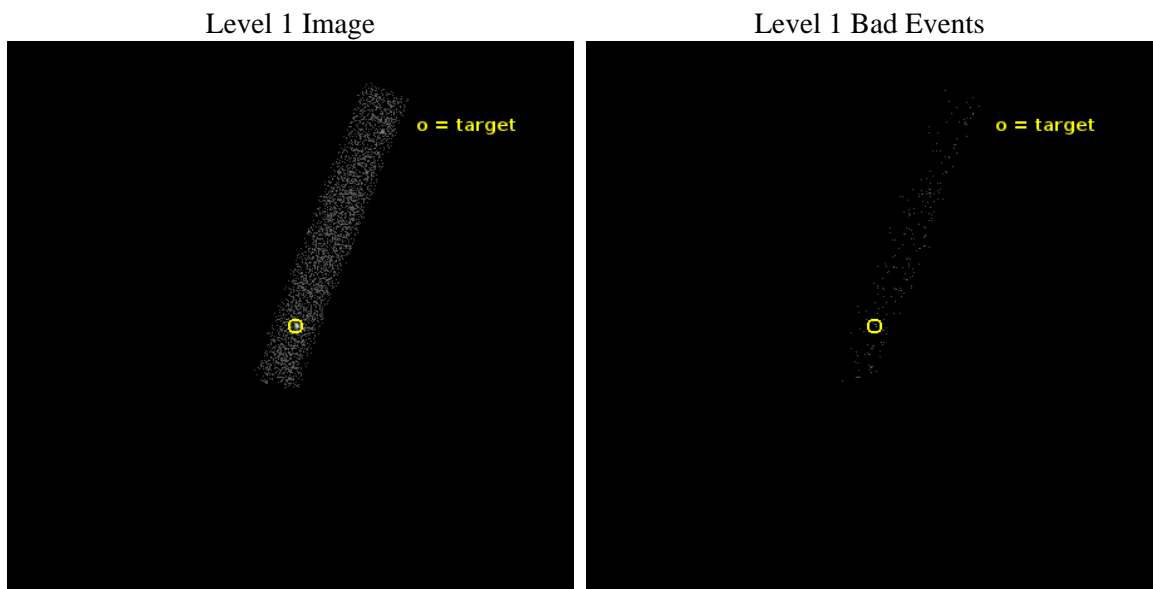
seq_num	201030	Sequence number
obs_id	18803	Observation id
title	Phase-variable X-ray Emission in the Eccentric O9.5V Binary Sigma Orionis	Proposal title
observer	Prof Frederick Walter	Principal investigator
object	sigma Orionis	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	84.686667	Observer's specified target RA [deg]
dec_targ	-2.600028	Observer's specified target Dec [deg]
ra_nom	84.689467283378	Nominal RA [deg]
dec_nom	-2.599971707493	Nominal Dec [deg]
roll_nom	290.15679877463	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3569.4228799343	Sum of GTIs [s]
livetime	3237.2781425125	Livetime [s]
ontime7	3569.4228799343	Sum of GTIs [s]
l2events	3182	Number of level 2 events



2 OBI

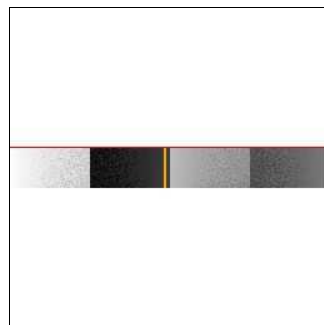
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3500.165000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	3569.4228799343	Sum of GTIs [s]
caldsver	4.7.0	 	ontime7	3569.4228799343	Sum of GTIs [s]
date	2016-03-09T07:20:54	Date and time of file creation	l1events	5217	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

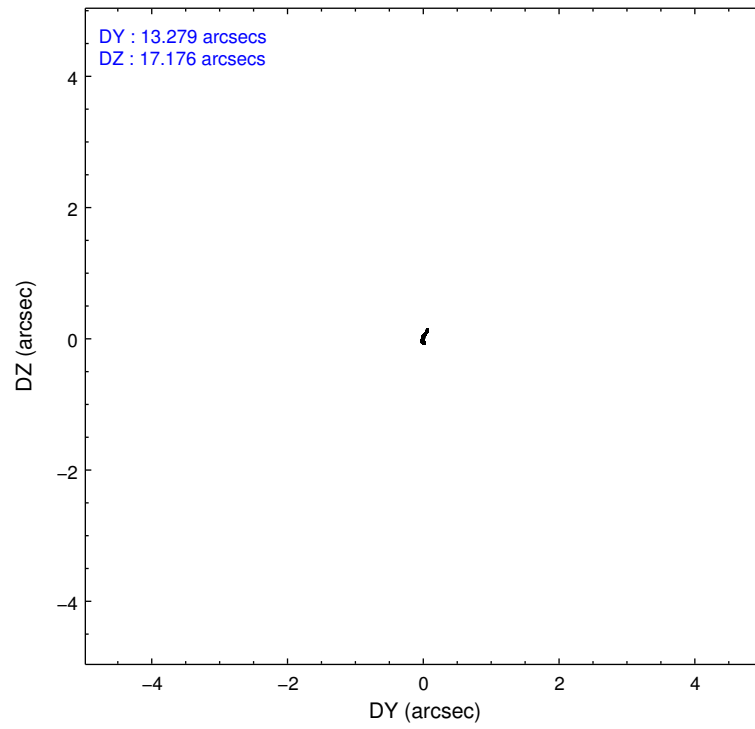
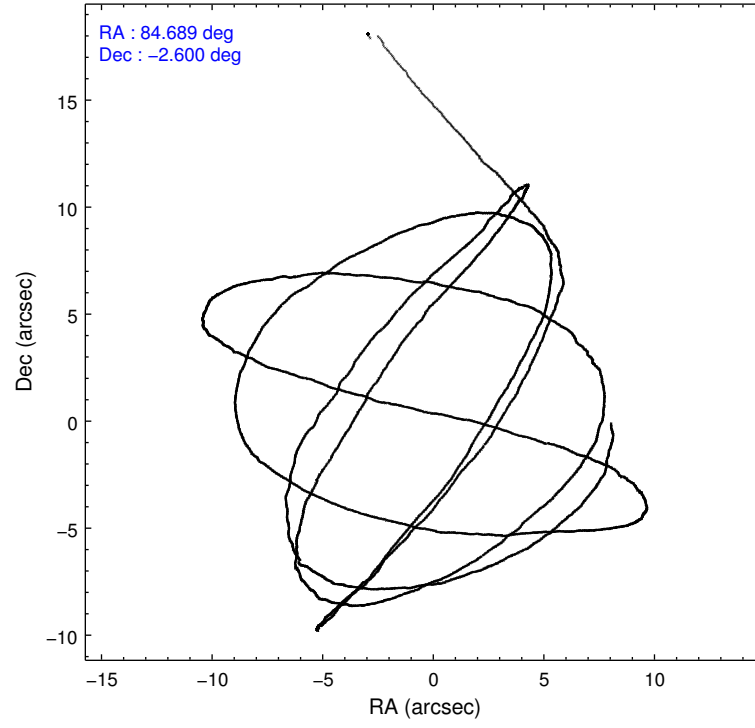
	ccd 7
level 1 events	5217
rejected events	1962
rejected %	37%

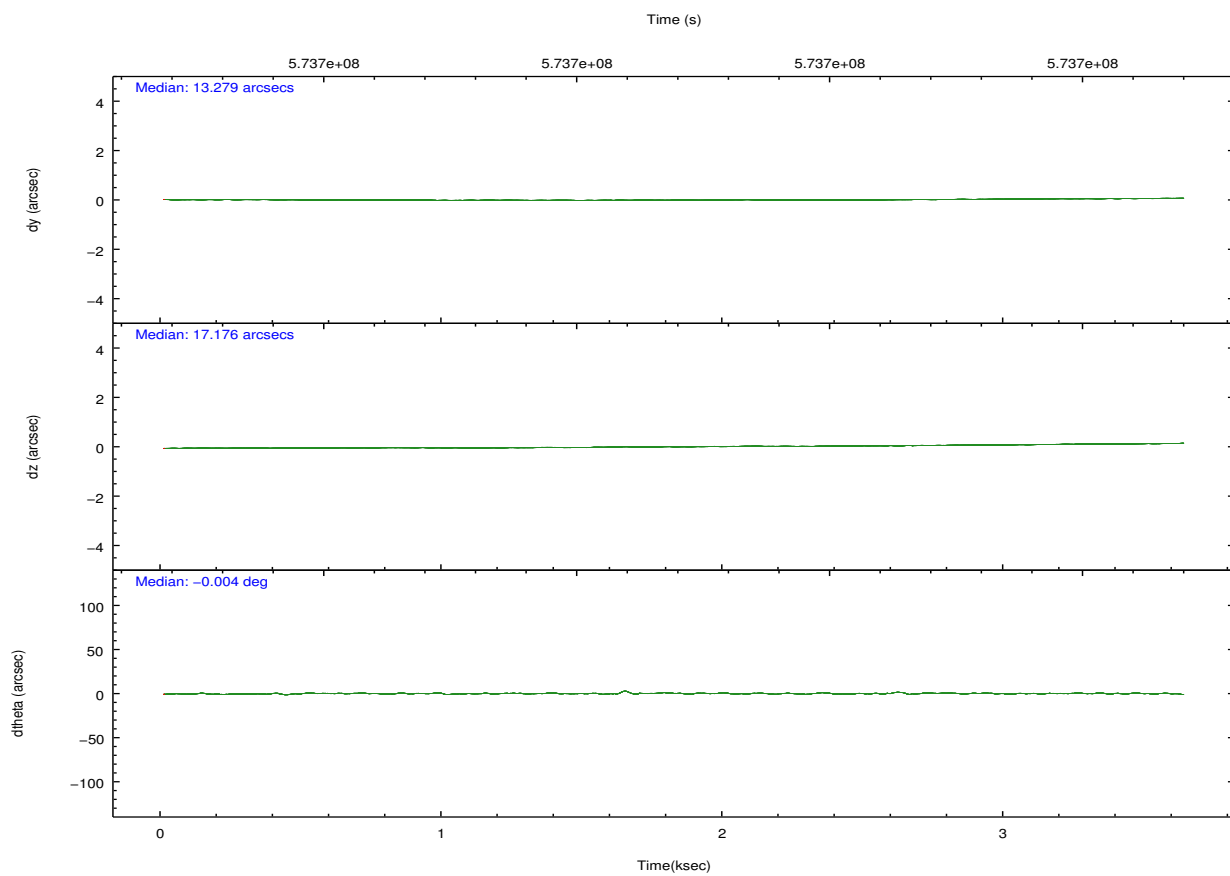
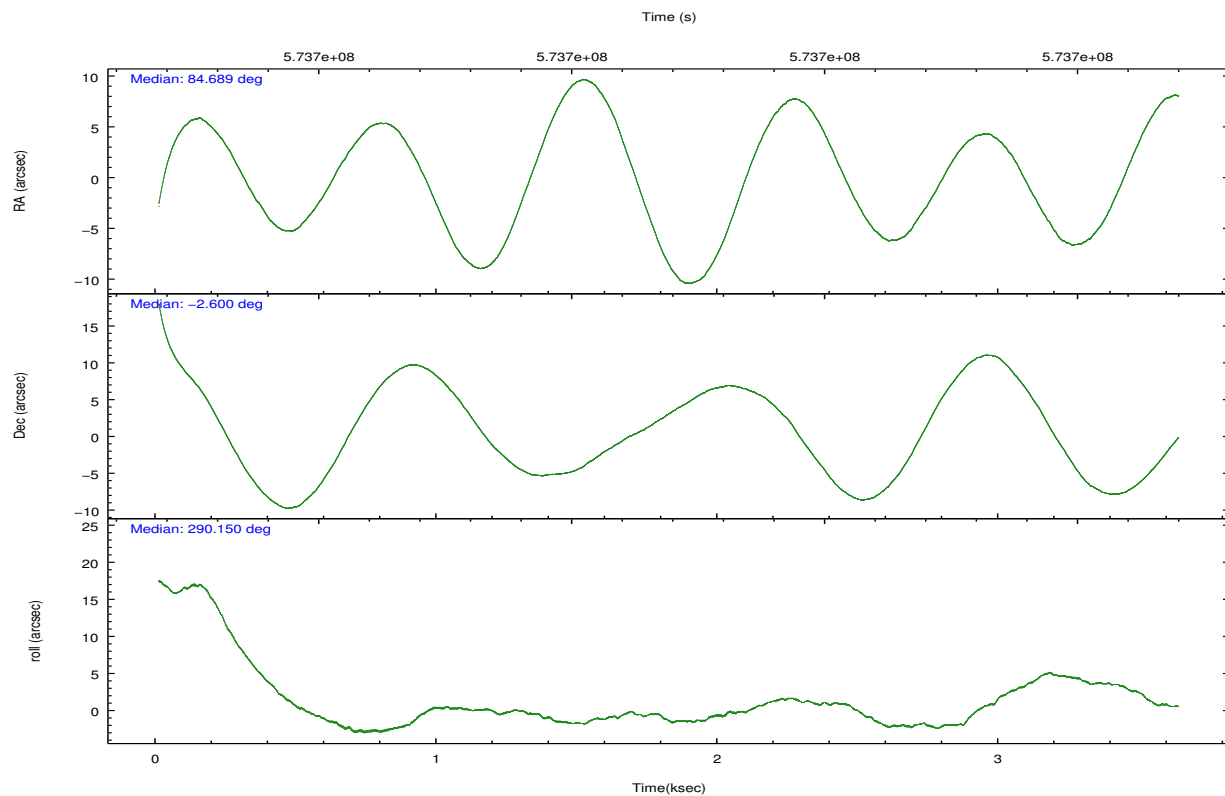
	ccd 7
grade 0 events	660
	12%
grade 1 events	7
	0%
grade 2 events	715
	13%
grade 3 events	414
	7%
grade 4 events	401
	7%
grade 5 events	371
	7%
grade 6 events	1065
	20%
grade 7 events	1584
	30%

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	84.668064	84.68946728337778	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-2.582619	-2.599971707493019	Subarray start row	449	449
[deg] Pointing Roll	289.999165	290.1567987746311	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	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
Phase constraints	Y	Y			
[d] Phase period	143.200000	143.200000			
[d] Phase epoch (MJD)	57456.000000	57456.000000			
Phase start	0.970000	0.970000			
Phase end	0.980000	0.980000			
Phase start error	0.010000	0.010000			
Phase end error	0.010000	0.010000			
[s] Observation start time (MET)	573698704.184000	573697144.13718			
Observation start date	2016-03-07T00:43:56	2016-03-07T00:19:04			
[s] Observation end time (MET)	573702205.184000	573702429.54998			
Observation end date	2016-03-07T01:42:17	2016-03-07T01:47:09			
Read mode	TIMED	TIMED			

2.3 Aspect



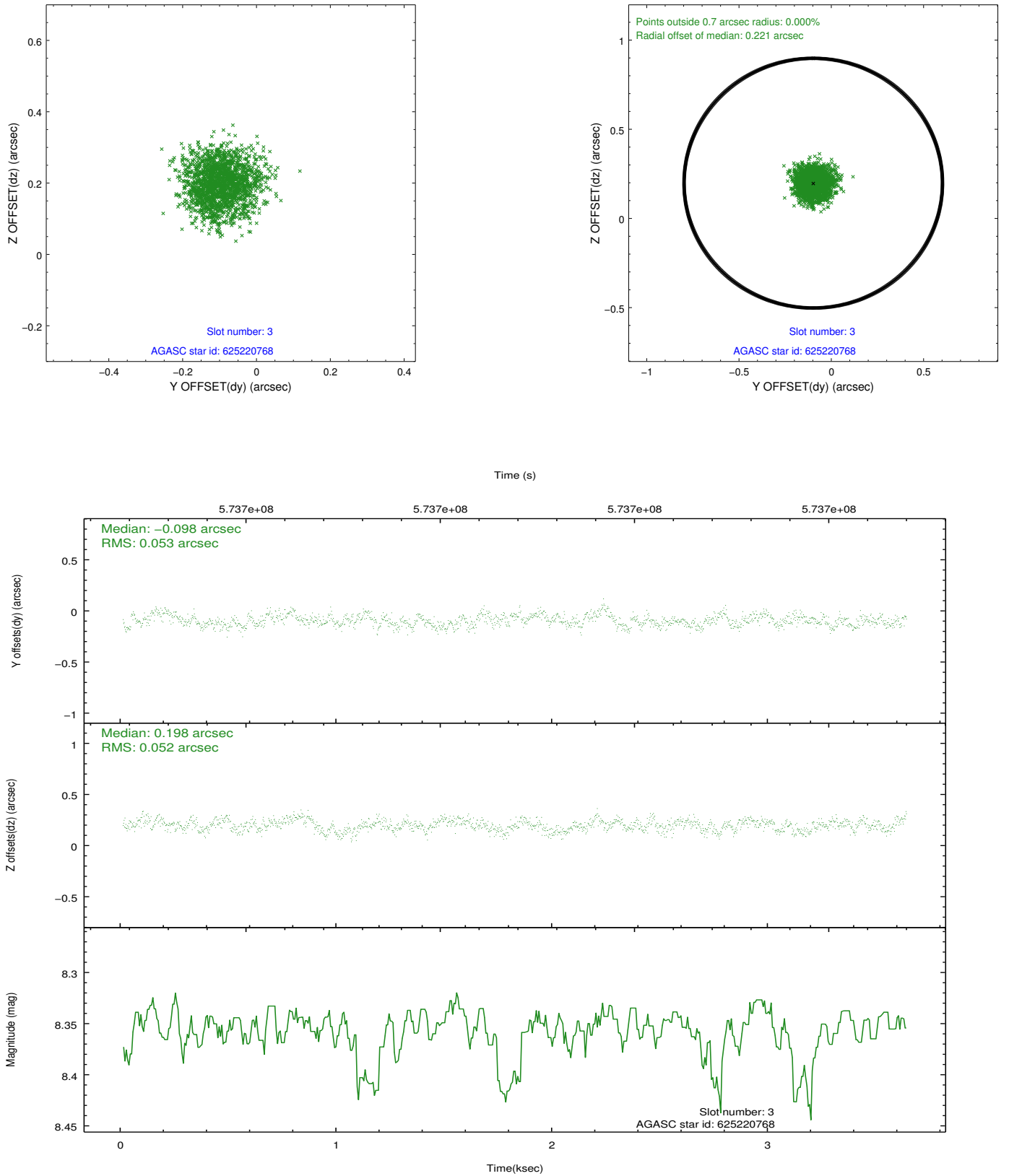


Slot Statistics

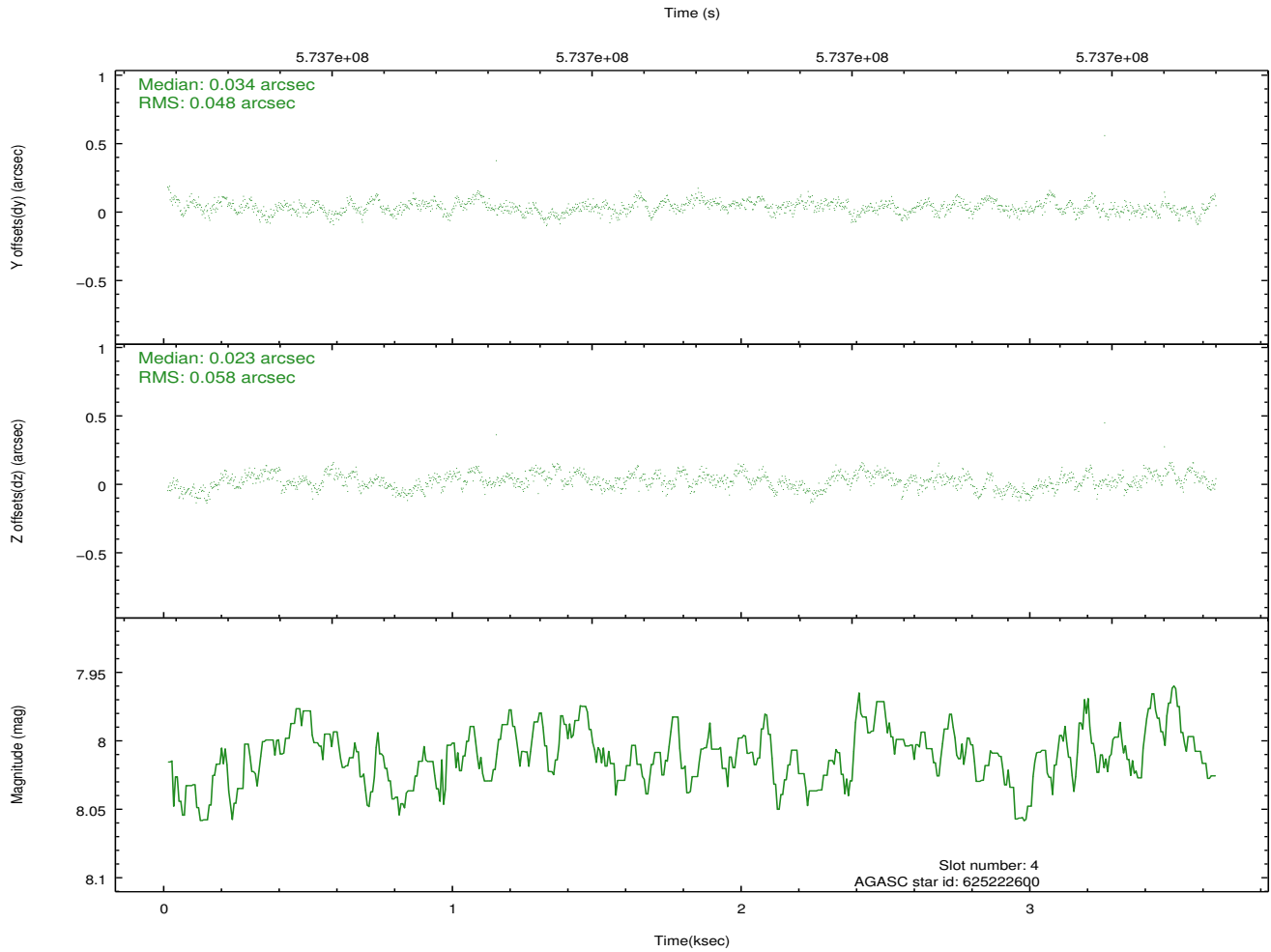
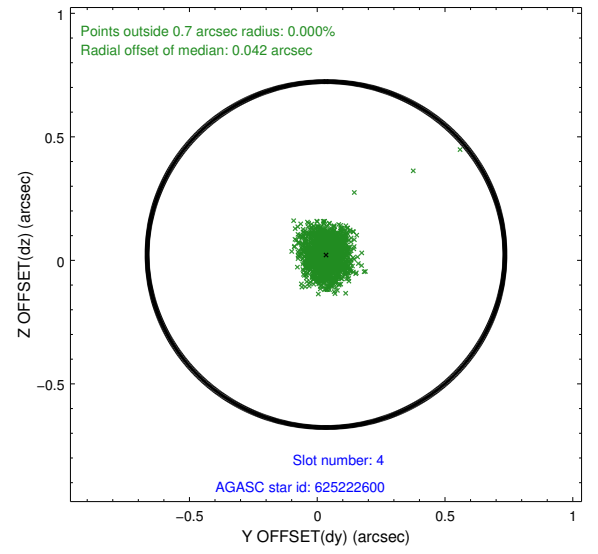
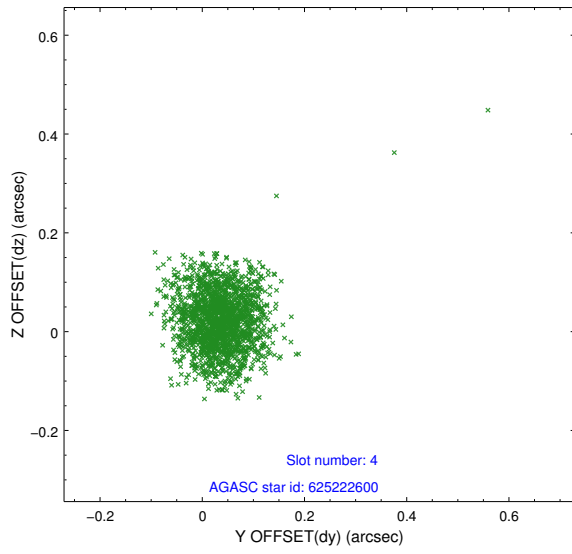
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.14	886	-0.147	-0.138	0.007	0.013	0.000000	0.000000	-766.34	-1738.71
1	FID		ACIS-S-4	7.24	886	0.476	0.108	0.006	0.009	0.000000	0.000000	2146.75	168.23
2	FID		ACIS-S-5	7.26	886	-0.361	0.039	0.007	0.012	0.000000	0.000000	-1817.19	163.78
3	GUIDE	used	625220768	8.36	1772	-0.098	0.198	0.080	0.125	84.347465	-2.083660	-2081.91	-469.35
4	GUIDE	used	625222600	8.01	1771	0.034	0.023	0.078	0.125	83.943895	-2.374066	-1596.53	-2191.62
5	GUIDE	used	625223800	8.41	1770	0.268	-0.124	0.093	0.152	84.220234	-2.967062	749.83	-1987.49
6	GUIDE	used	625354096	6.75	1772	-0.088	-0.131	0.103	0.154	85.155401	-2.825234	1420.62	1346.90
7	GUIDE	used	625352456	9.15	1768	-0.116	0.042	0.138	0.225	84.776134	-2.002015	-1830.55	1081.04

2.4 Star Slots

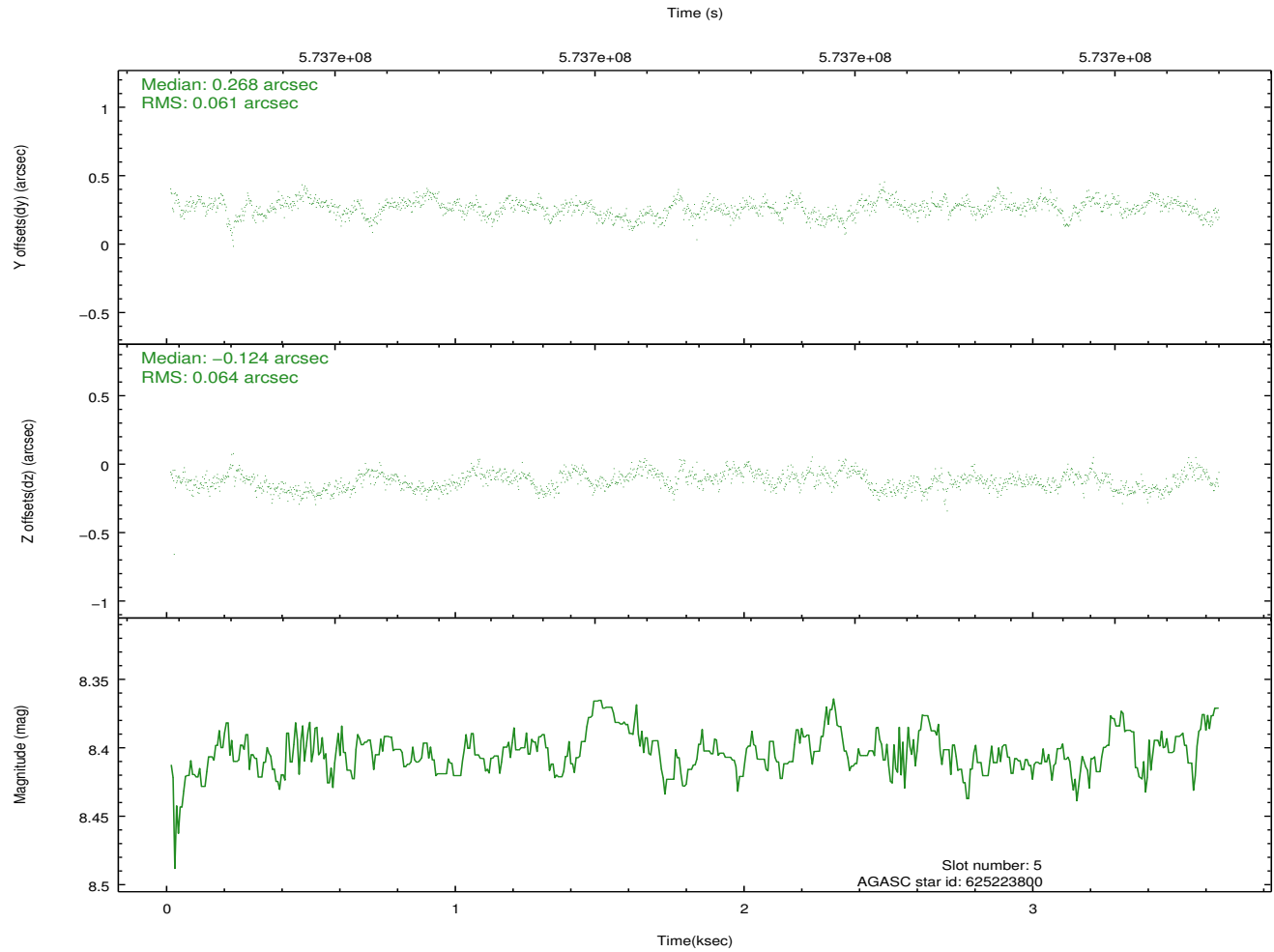
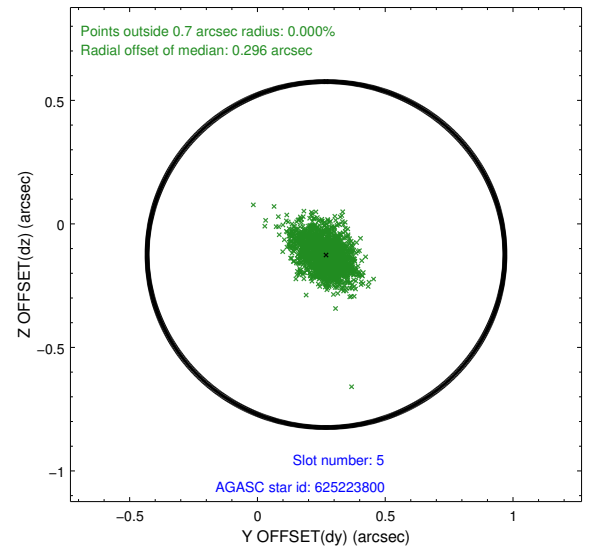
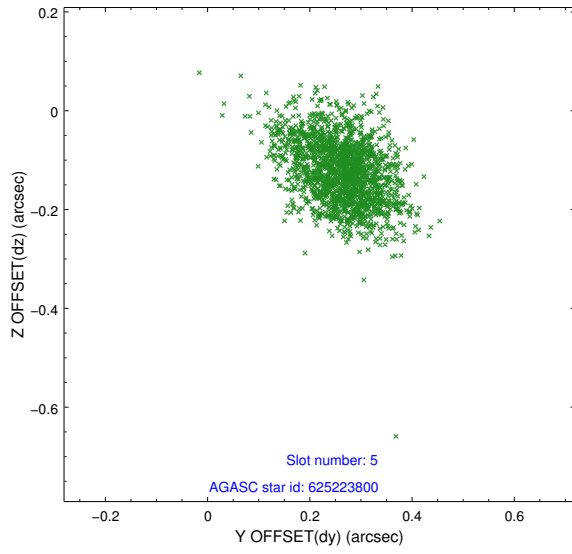
2.4.1 Slot 3



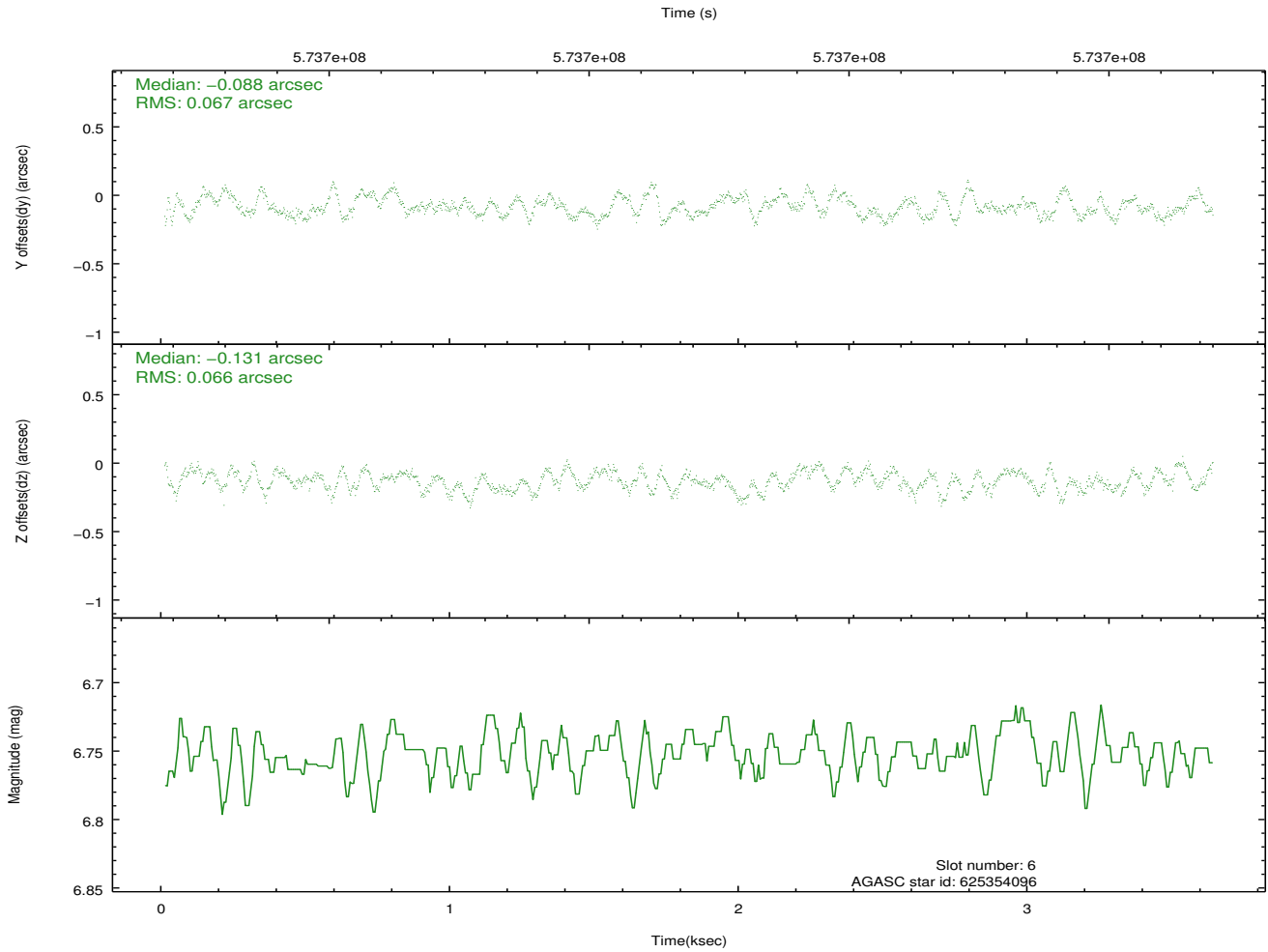
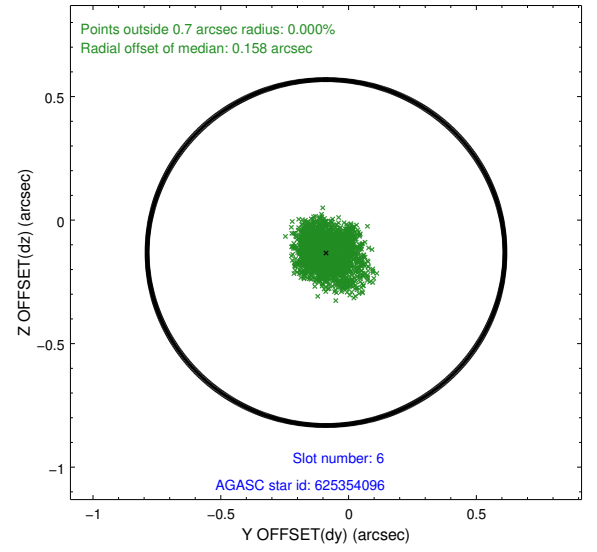
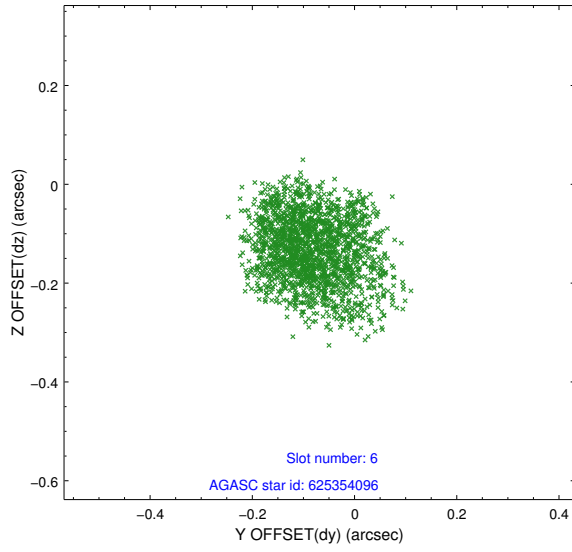
2.4.2 Slot 4



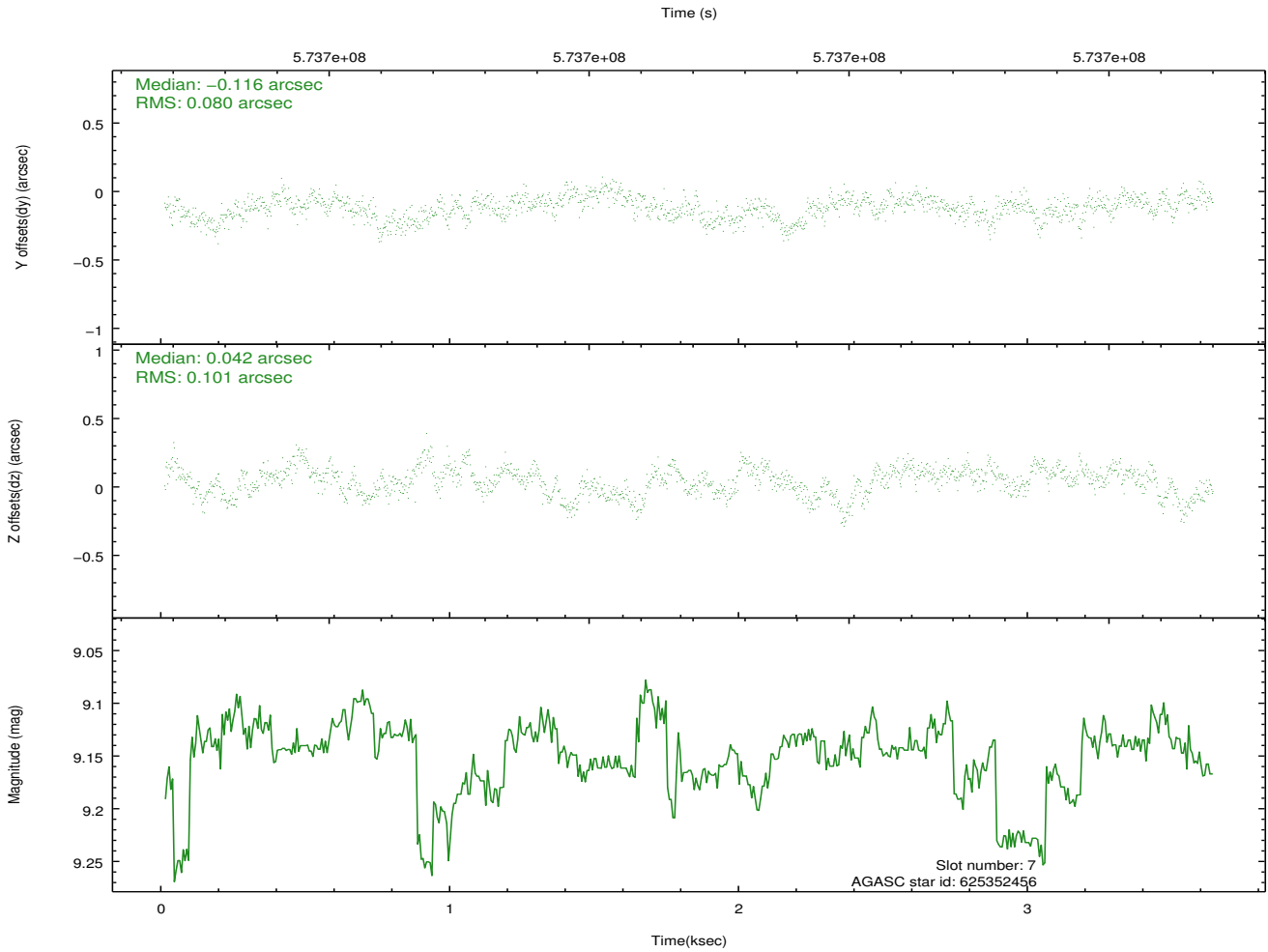
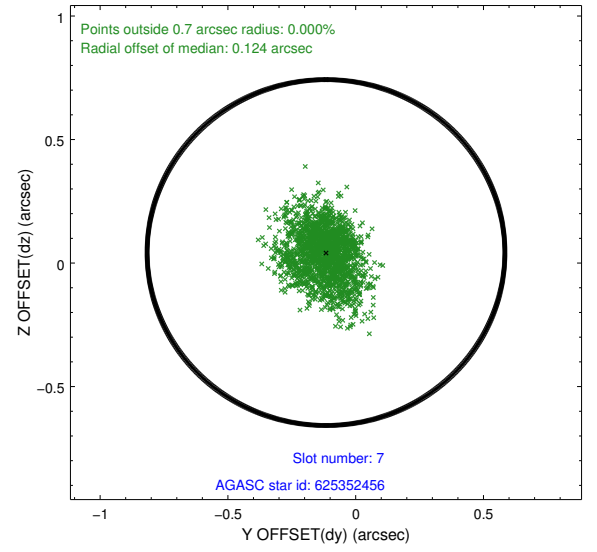
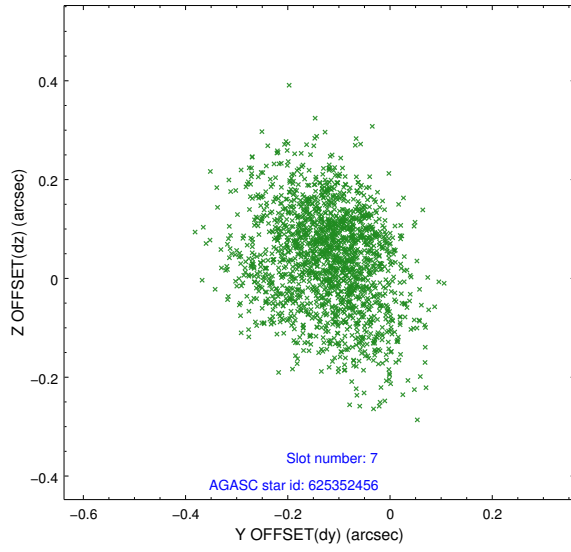
2.4.3 Slot 5



2.4.4 Slot 6

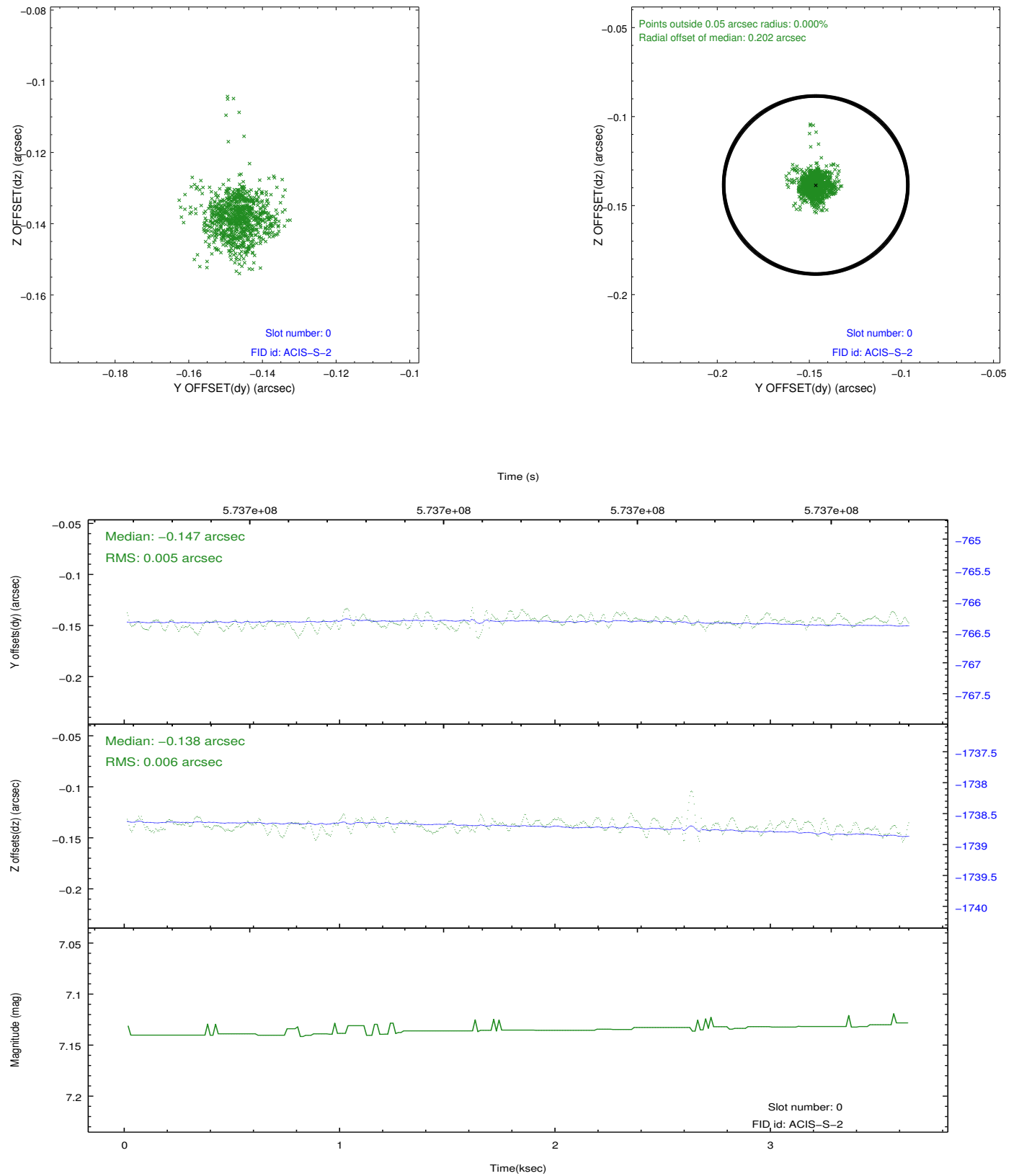


2.4.5 Slot 7

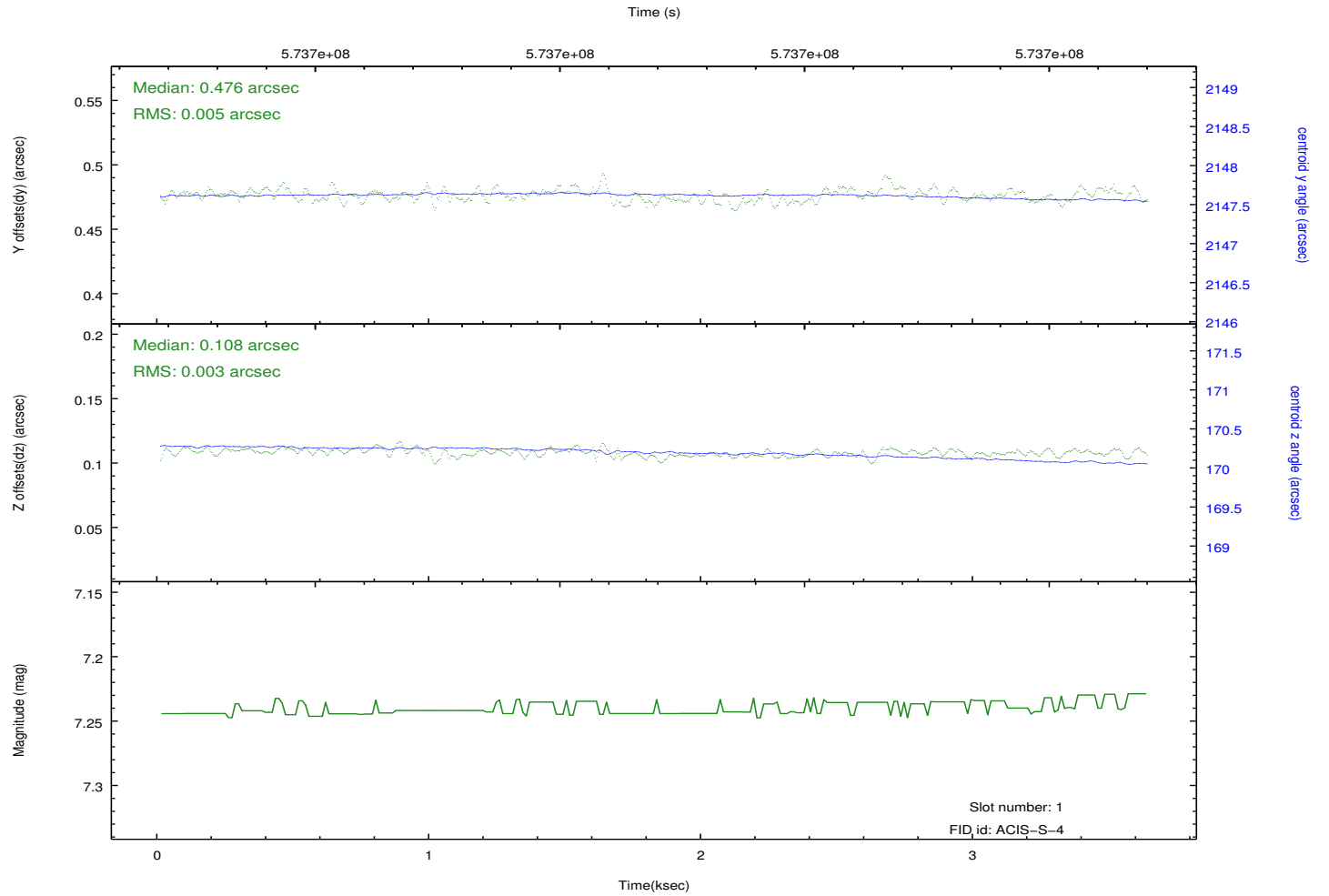
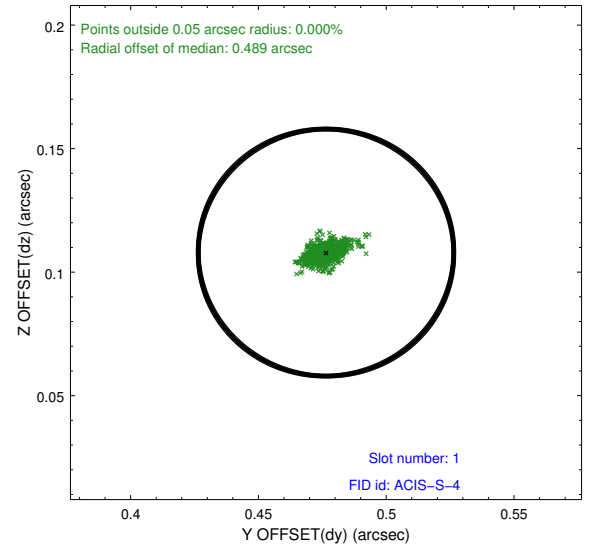
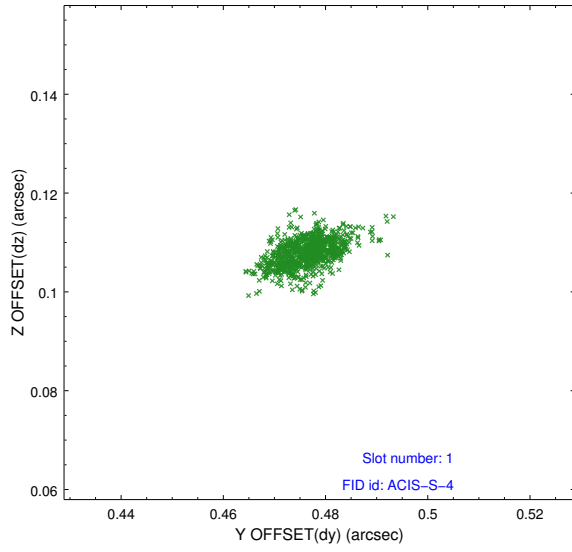


2.5 FID Slots

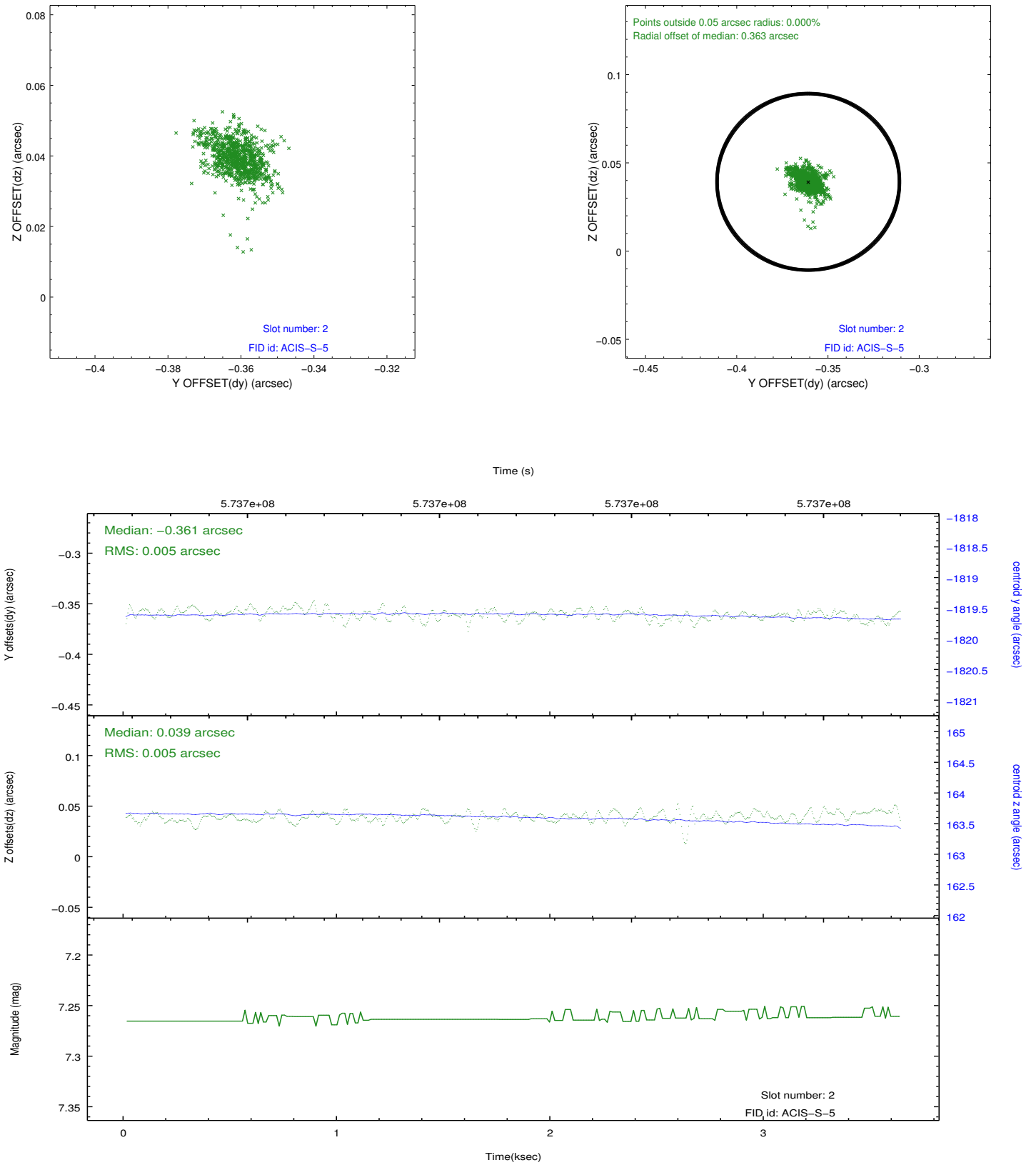
2.5.1 Slot 0



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)	2016.03.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.5694228799343

A.2 Comments