

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 20858 - L2 Version 1
Chandra X-Ray Center

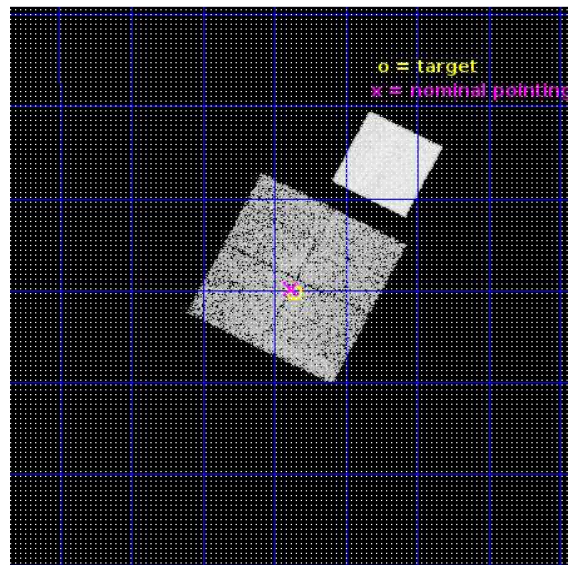
L2 Processing Date : Nov 24 2017

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

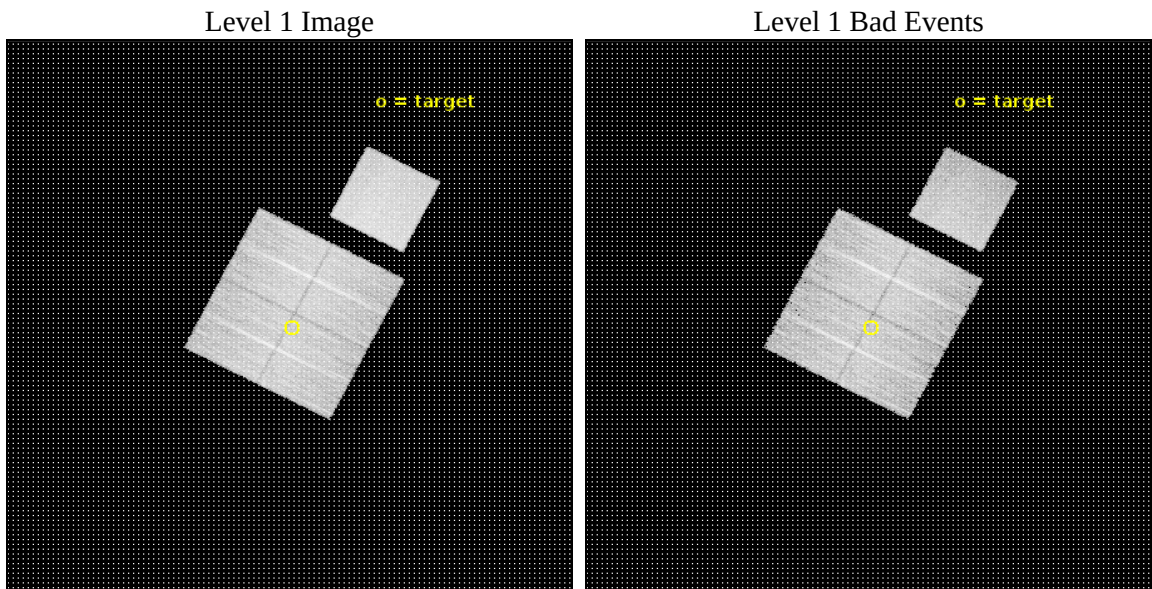
seq_num	801659	Sequence number
obs_id	20858	Observation id
title	A Violent merger in the cluster PLCKESZ G200.9-28.2: Relic formation caught in action?	Proposal title
observer	Daniel Wik	Principal investigator
object	PLCKESZ G200.9-28.2	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	72.589954	Observer's specified target RA [deg]
dec_targ	-3.004375	Observer's specified target Dec [deg]
ra_nom	72.59503959562	Nominal RA [deg]
dec_nom	-2.9972646156203	Nominal Dec [deg]
roll_nom	27.209038939526	Nominal Roll [deg]
revision	1	Processing version of data
ontime	12055.90009284	Sum of GTIs [s]
livetime	11898.380882703	Livetime [s]
ontime0	12055.90009284	Sum of GTIs [s]
ontime1	12055.90009284	Sum of GTIs [s]
ontime2	12055.90009284	Sum of GTIs [s]
ontime3	12052.759002566	Sum of GTIs [s]
ontime7	12055.90009284	Sum of GTIs [s]
l2events	84696	Number of level 2 events



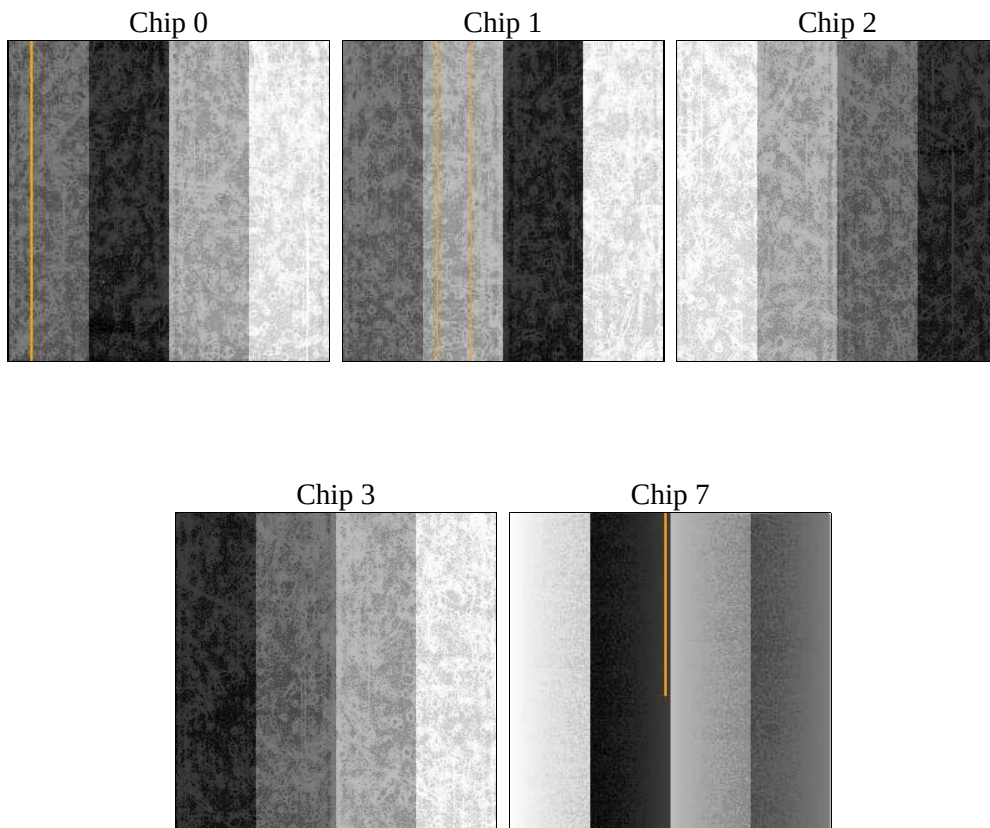
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	12000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	12055.90009284	Sum of GTIs [s]
caldbver	4.7.6	 	ontime0	12055.90009284	Sum of GTIs [s]
date	2017-11-24T18:15:03	Date and time of file creation	ontime1	12055.90009284	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	12055.90009284	Sum of GTIs [s]
			ontime3	12052.759002566	Sum of GTIs [s]
			ontime7	12055.90009284	Sum of GTIs [s]
			l1events	461503	Number of level 1 events

2.1.4 Events

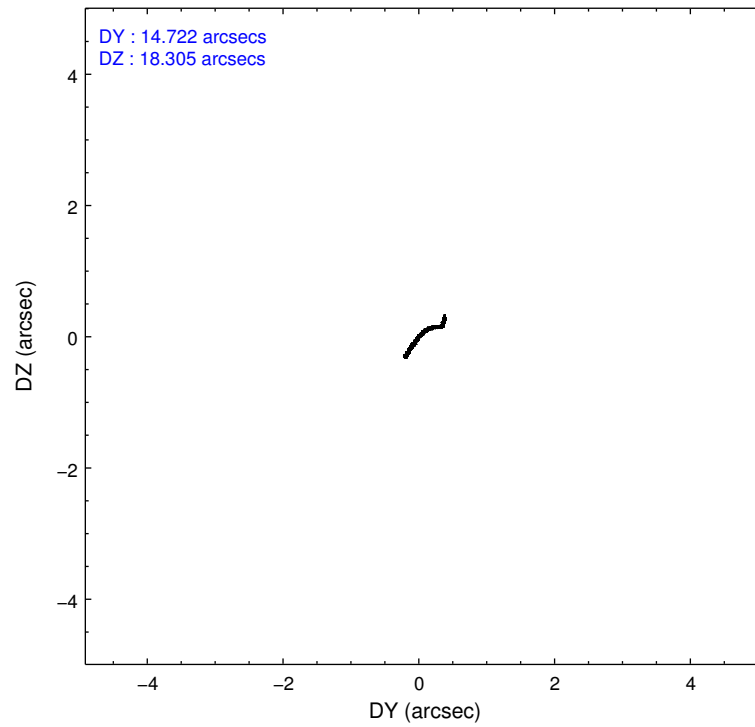
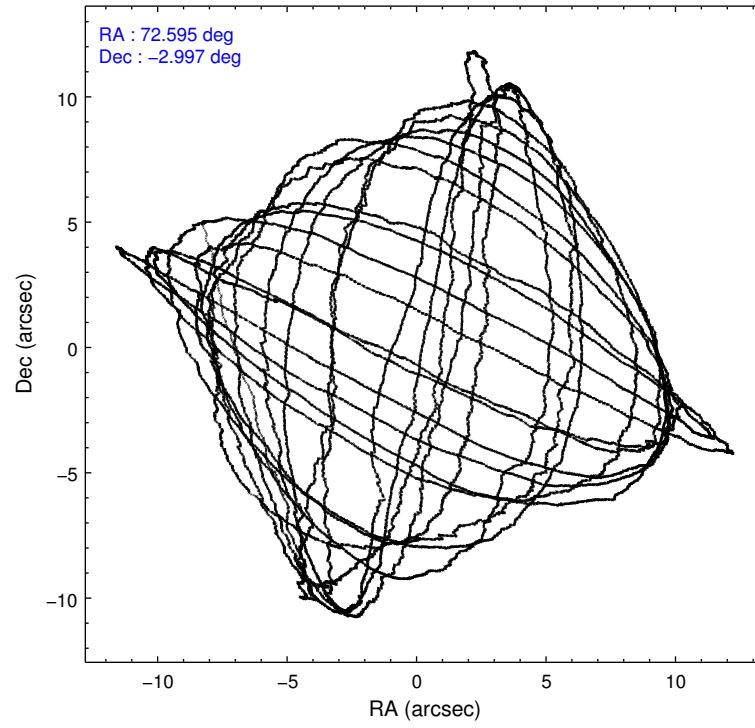
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	81916	84837	91629	86310	116811
rejected events	71371	73563	81373	76707	65811
rejected %	87%	86%	88%	88%	56%

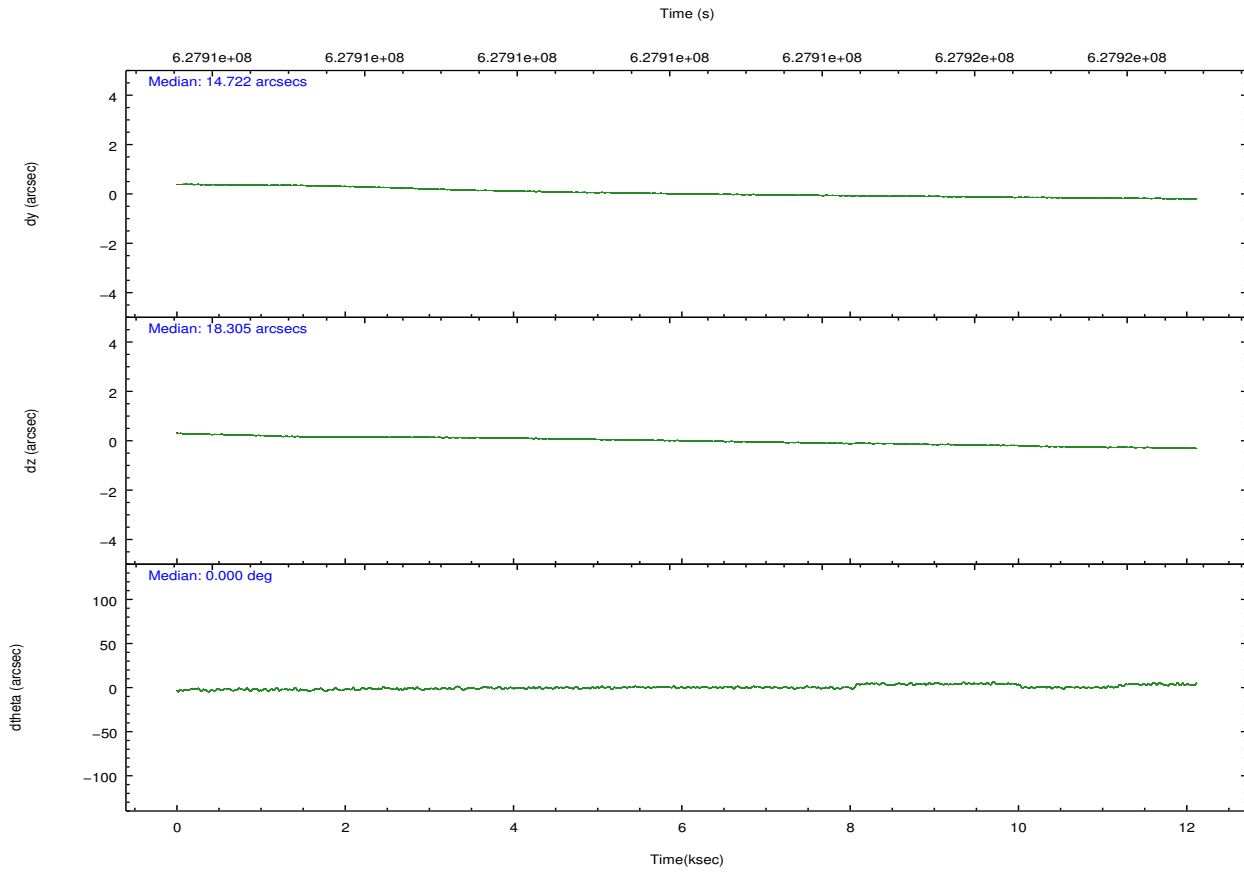
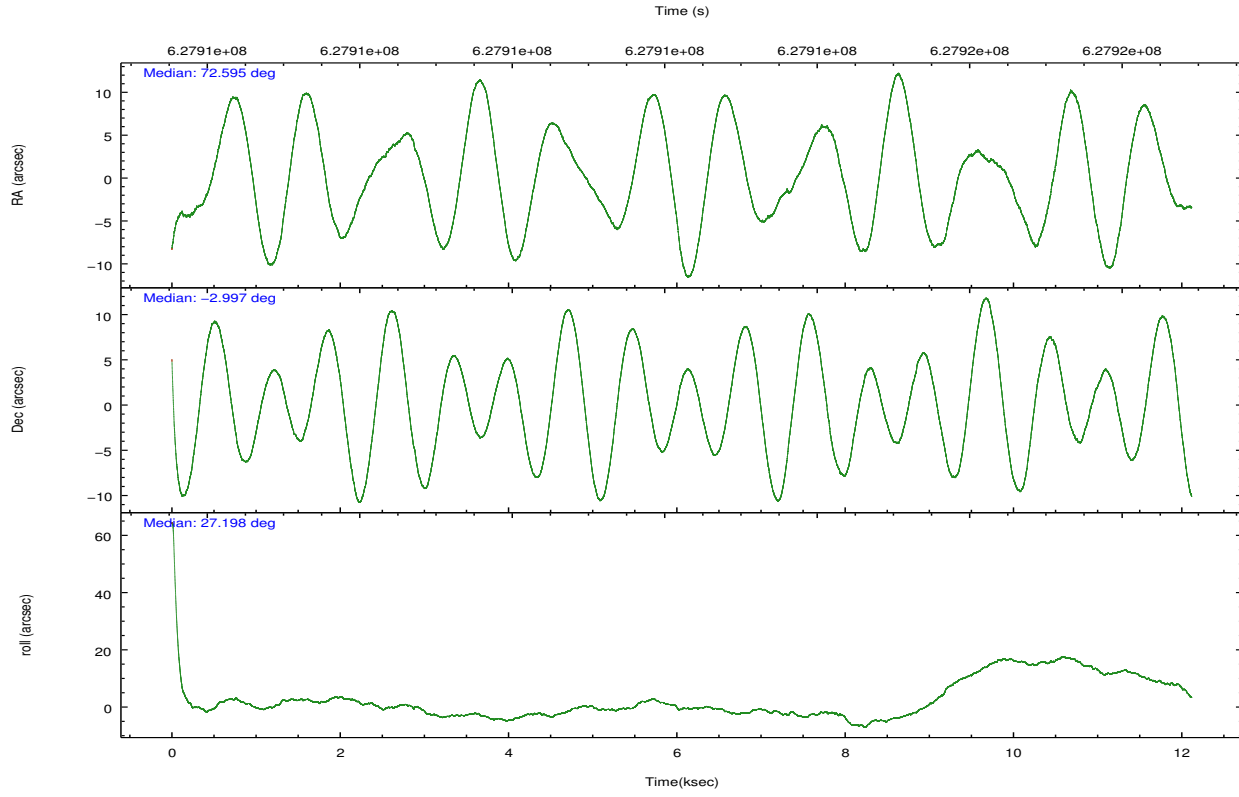
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	3816	3885	3891	3435	4440
	4%	4%	4%	3%	3%
grade 1 events	44	47	50	51	146
	0%	0%	0%	0%	0%
grade 2 events	2592	2741	2454	2071	10657
	3%	3%	2%	2%	9%
grade 3 events	1036	1068	1022	1029	4316
	1%	1%	1%	1%	3%
grade 4 events	978	1112	966	1020	4141
	1%	1%	1%	1%	3%
grade 5 events	3815	4076	3667	4322	11789
	4%	4%	4%	5%	10%
grade 6 events	2130	2473	1926	2054	27468
	2%	2%	2%	2%	23%
grade 7 events	67505	69435	77653	72328	53854
	82%	81%	84%	83%	46%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01237	ACIS-01237	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	72.580199	72.59503959562007	CCD I2 on	Y	Y
[deg] Pointing Dec	-3.020530	-2.997264615620334	CCD I3 on	Y	Y
[deg] Pointing Roll	26.999491	27.20903893952561	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	N	N
[mm] SIM translation stage pos	-239.442463	-239.4407604828604	CCD S3 on	O1	Y
[mm] SIM translation stage offset	5.85	5.848307479930696	CCD S4 on	N	N
[s] Observation start time (MET)	627906288.184000	627905236.28629	CCD S5 on	N	N
Observation start date	2017-11-24T10:23:39	2017-11-24T10:07:16	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	627918288.184000	627919221.89961	On-chip summing requested	N	N
Observation end date	2017-11-24T13:43:39	2017-11-24T14:00:21	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



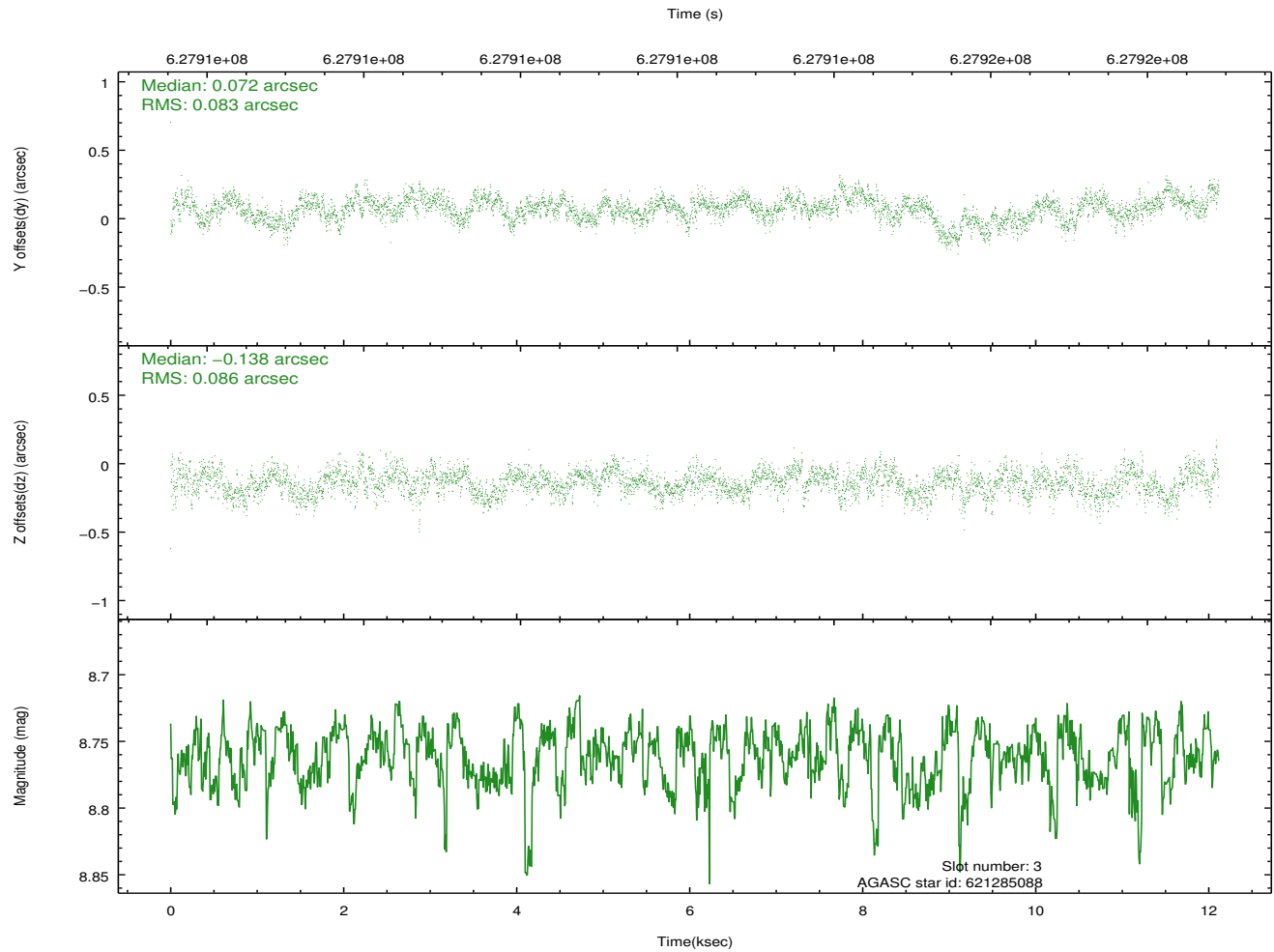
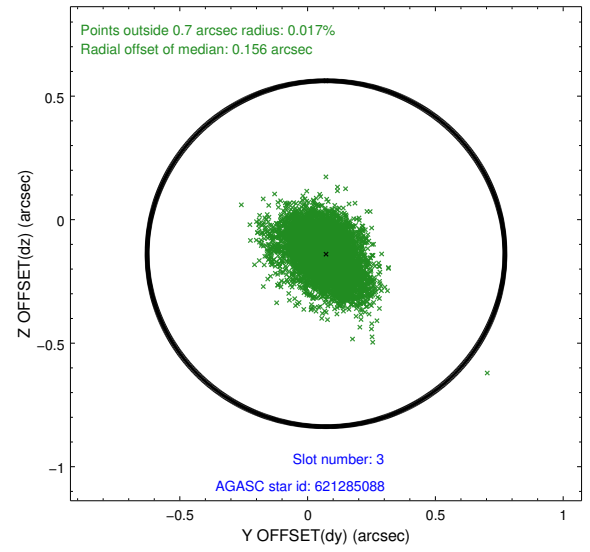
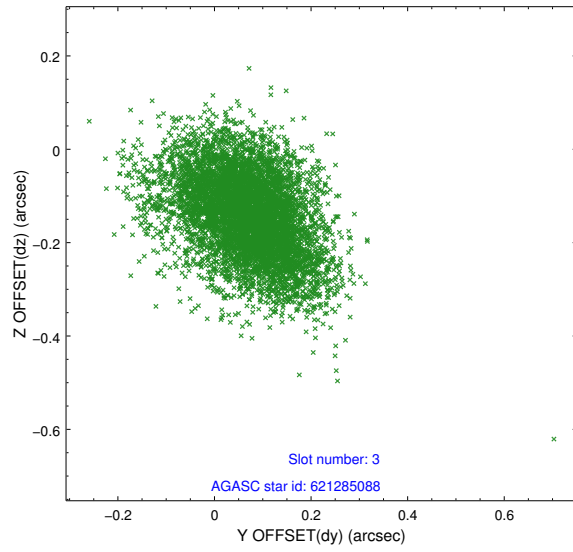


Slot Statistics

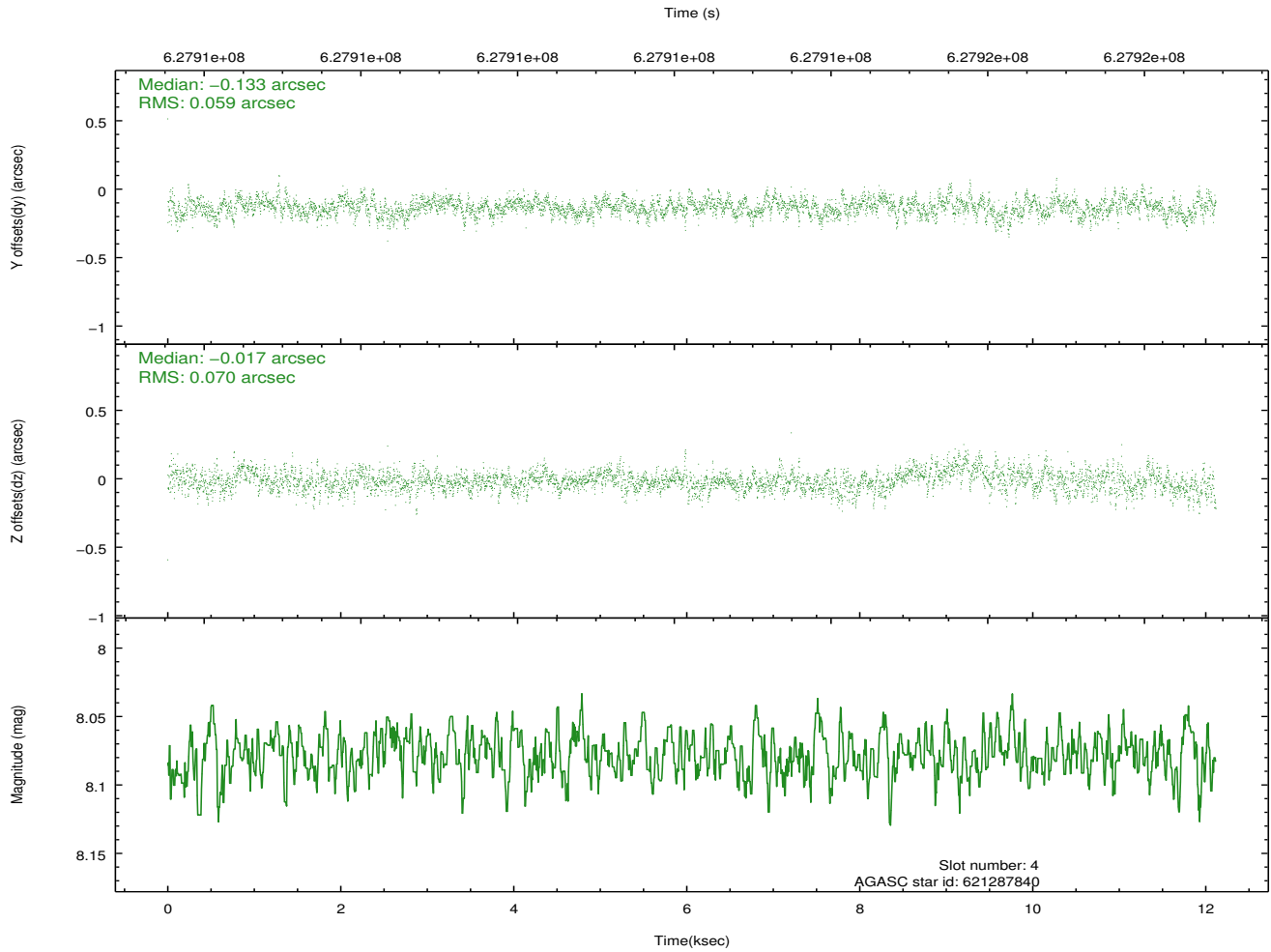
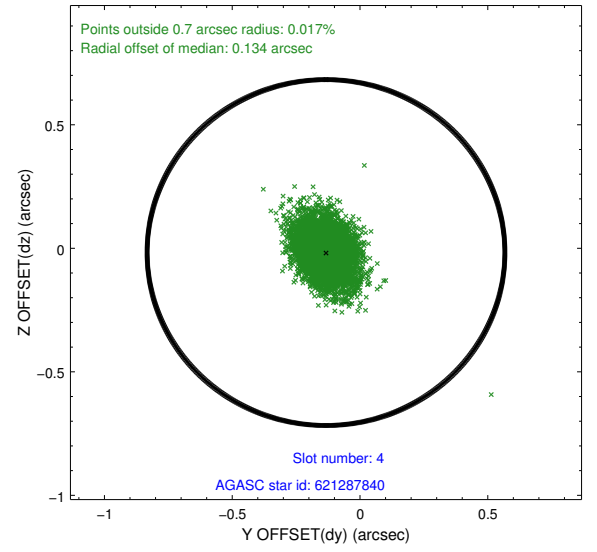
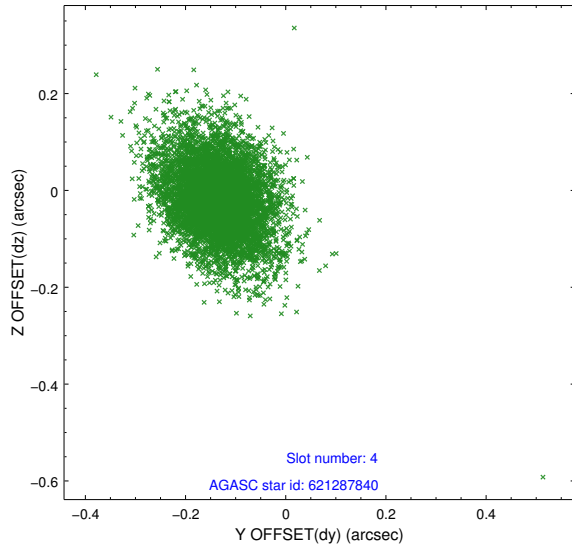
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-2	7.05	2956	-0.296	-0.137	0.012	0.018	0.000000	0.000000	-769.39	-728.99
1	FID		ACIS-I-4	7.10	2954	0.389	0.144	0.015	0.038	0.000000	0.000000	2145.27	1177.21
2	FID		ACIS-I-6	7.10	2956	-0.191	0.056	0.021	0.052	0.000000	0.000000	391.11	1820.59
3	GUIDE	used	621285088	8.76	5909	0.072	-0.138	0.124	0.212	72.185532	-2.636590	-637.37	1875.23
4	GUIDE	used	621287840	8.08	5910	-0.133	-0.017	0.094	0.164	72.904853	-2.949814	1155.94	-302.73
5	GUIDE	used	621289504	8.89	5908	-0.045	0.118	0.161	0.269	73.076403	-3.394128	979.27	-2008.09
6	GUIDE	used	621817120	8.67	5903	0.389	0.513	0.115	0.210	72.343289	-3.782403	-2002.00	-2057.80
7	GUIDE	used	621284808	8.61	5906	-0.286	-0.456	0.133	0.222	72.478666	-2.477405	561.96	1907.20

2.4 Star Slots

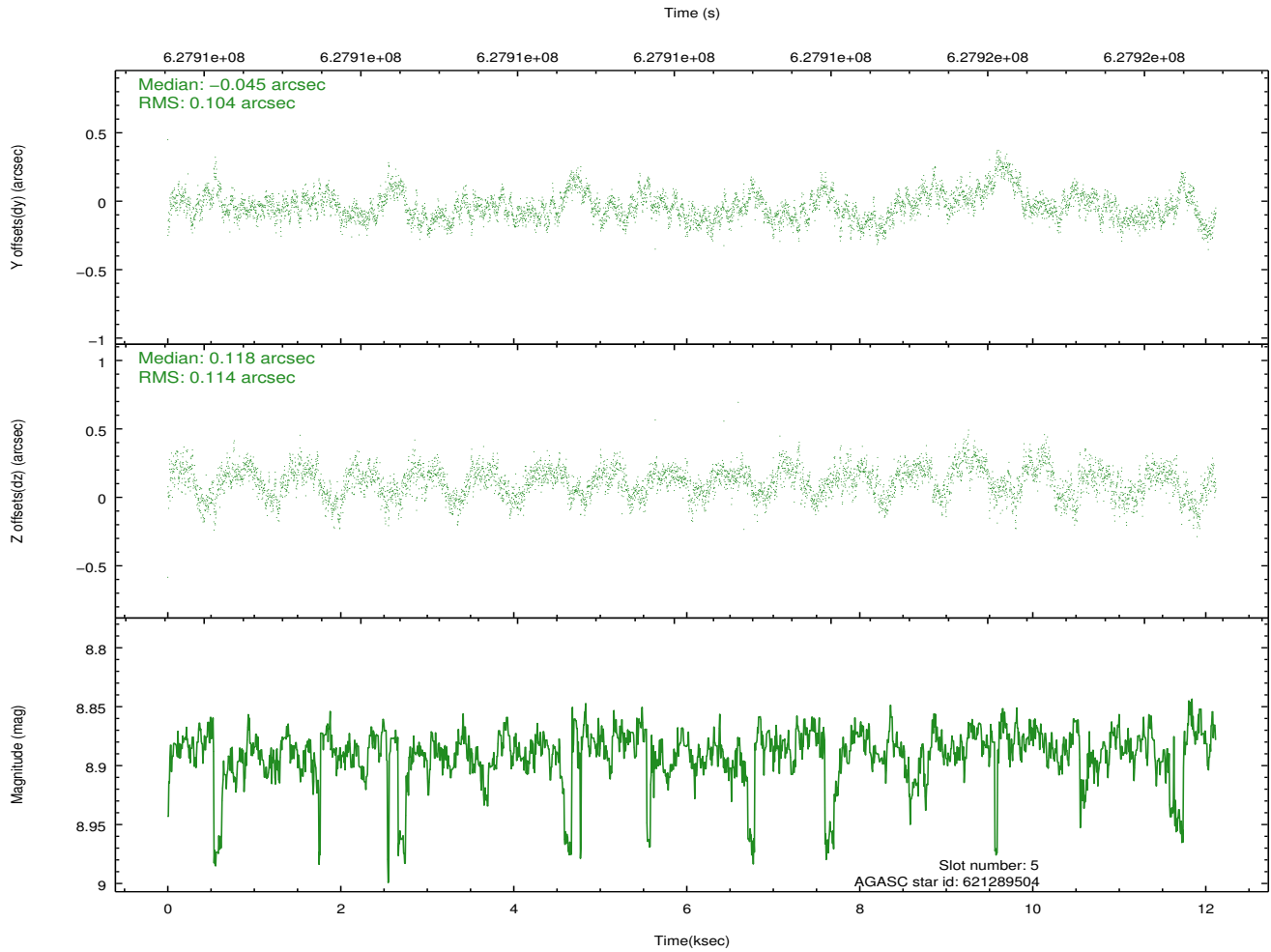
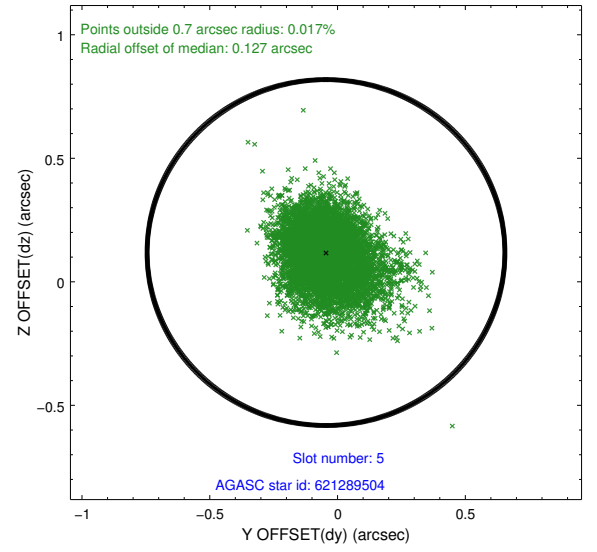
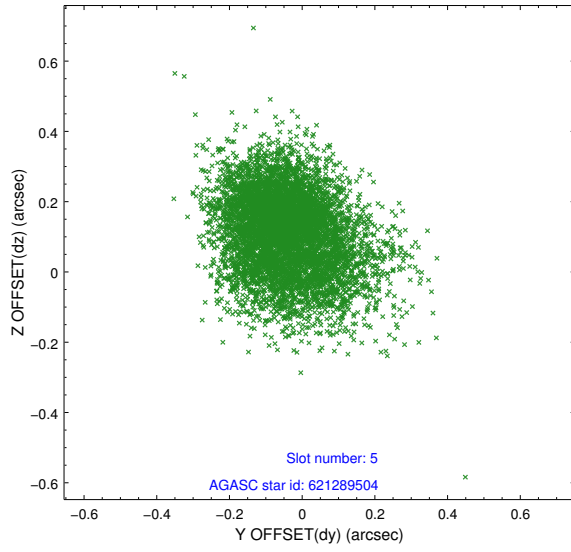
2.4.1 Slot 3



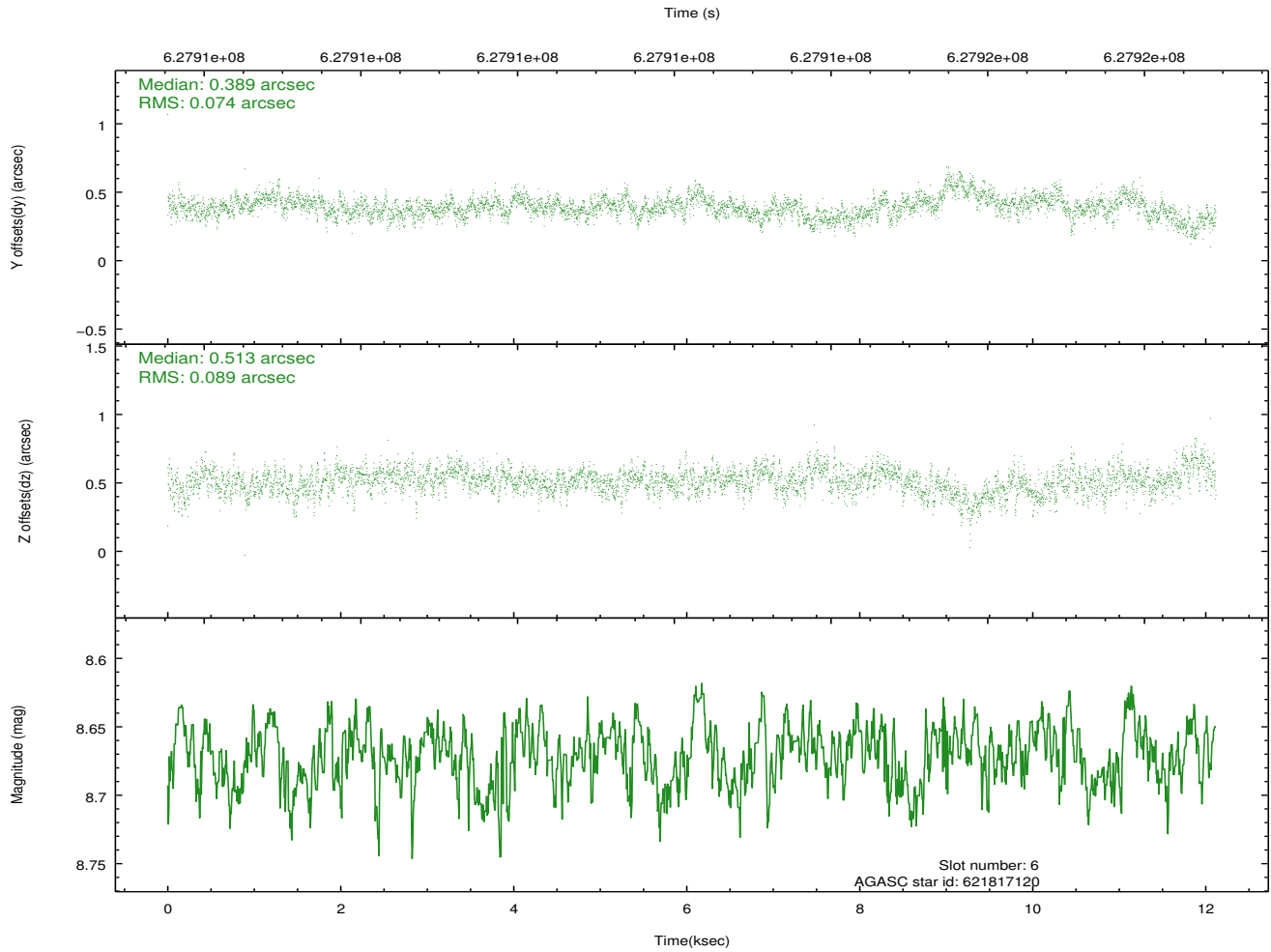
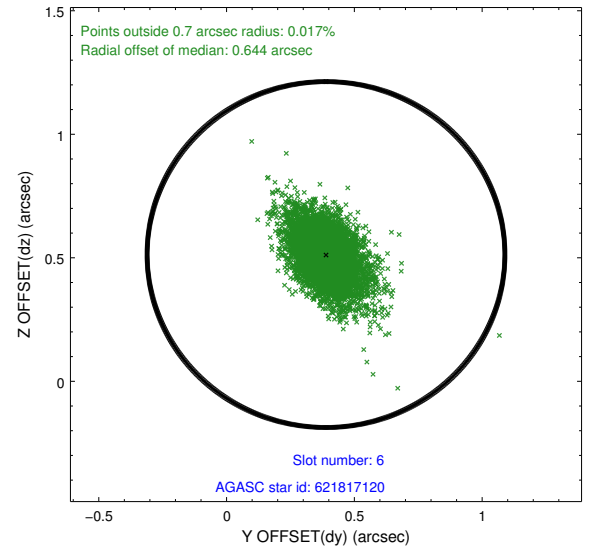
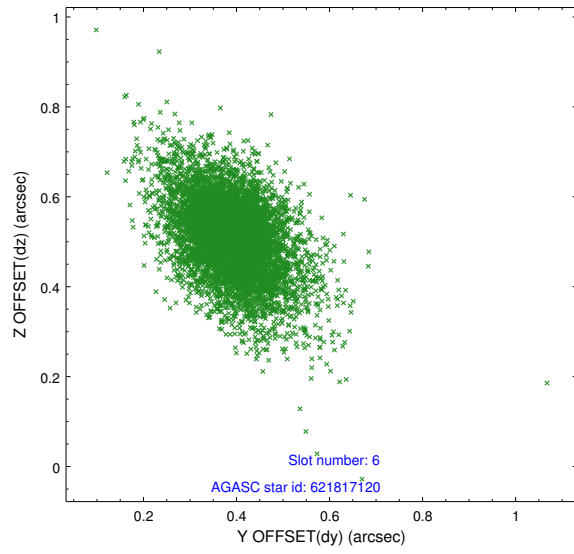
2.4.2 Slot 4



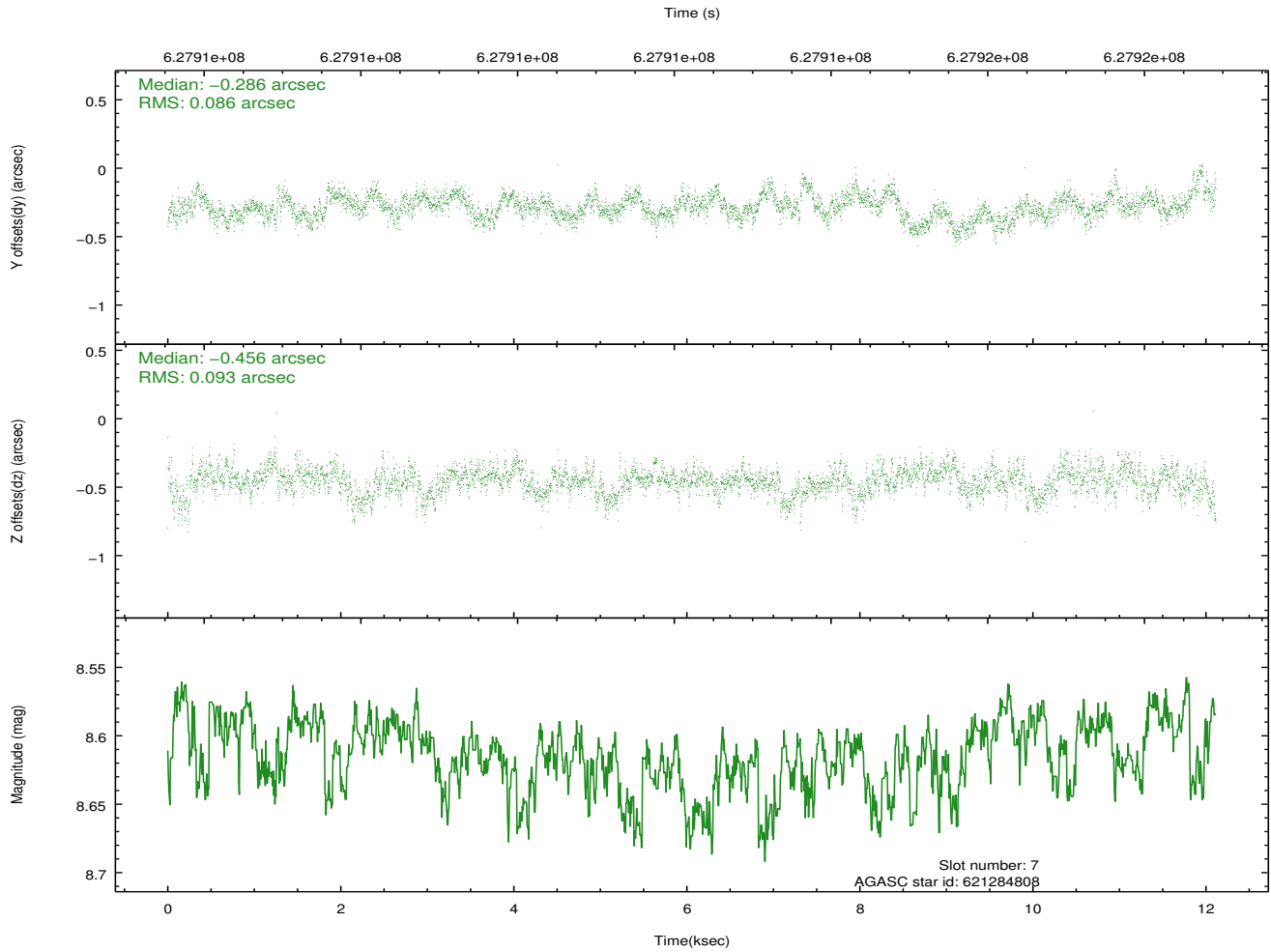
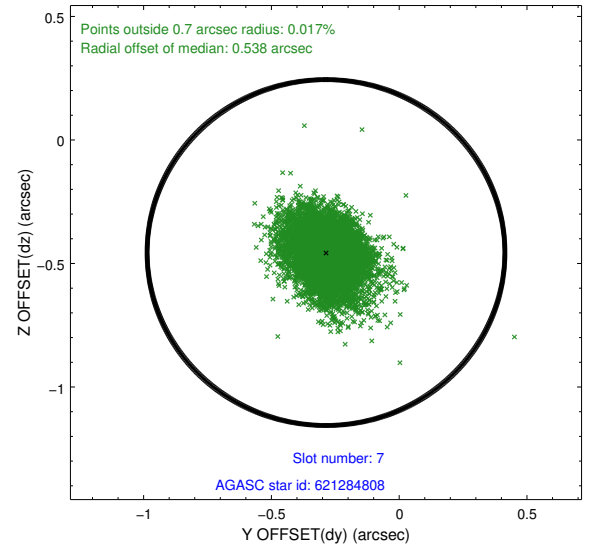
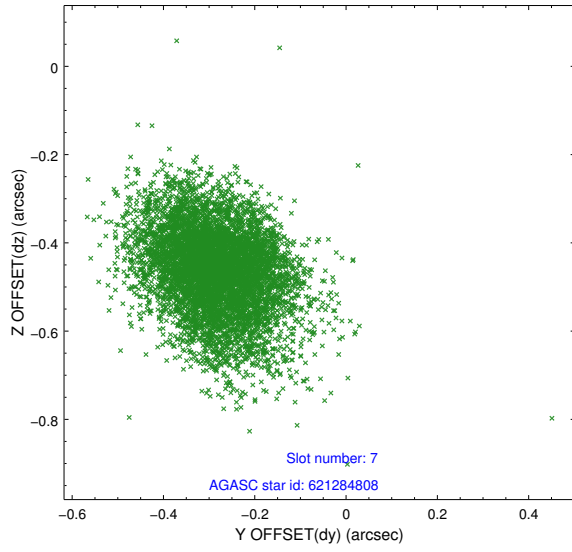
2.4.3 Slot 5



2.4.4 Slot 6

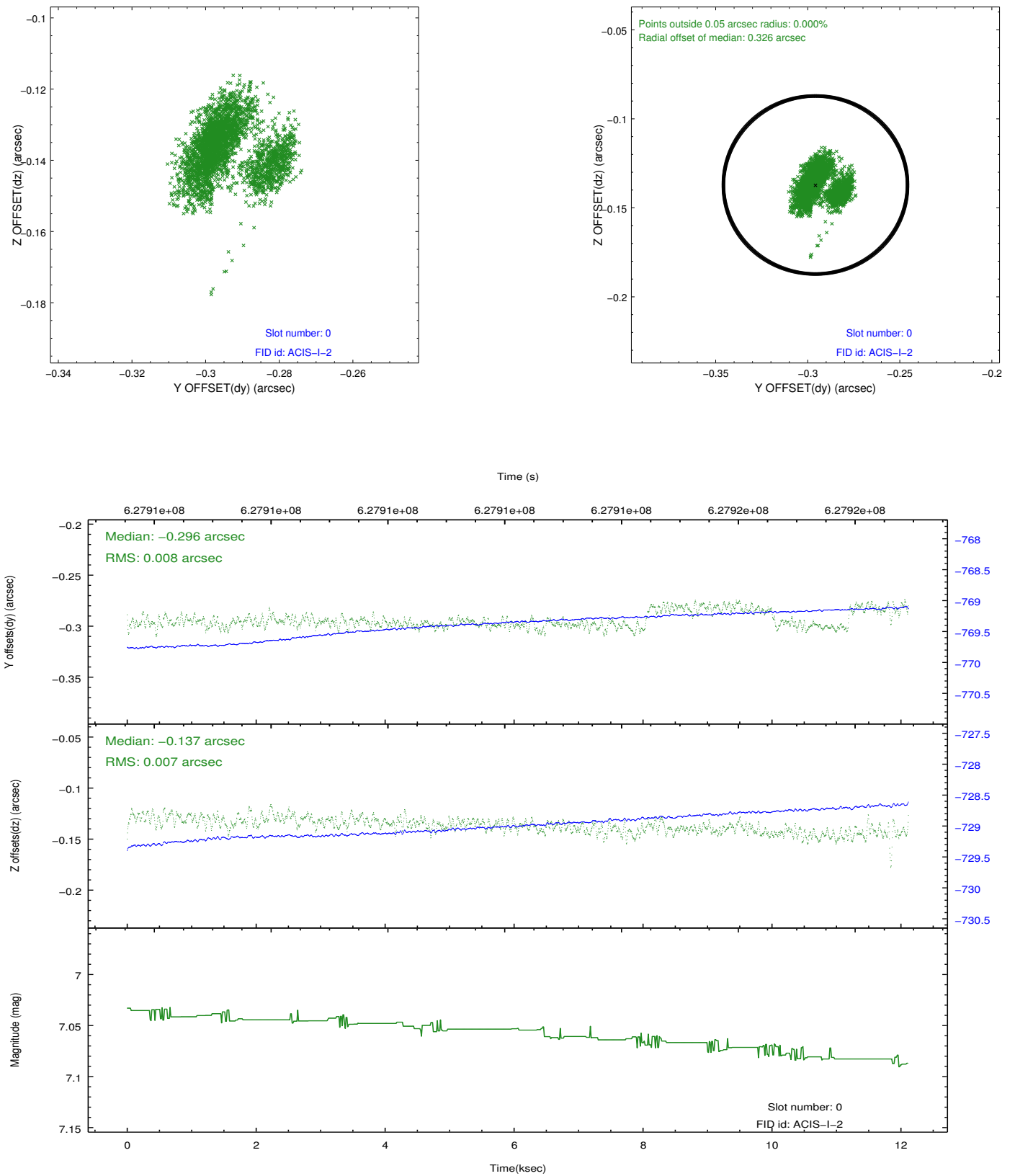


2.4.5 Slot 7

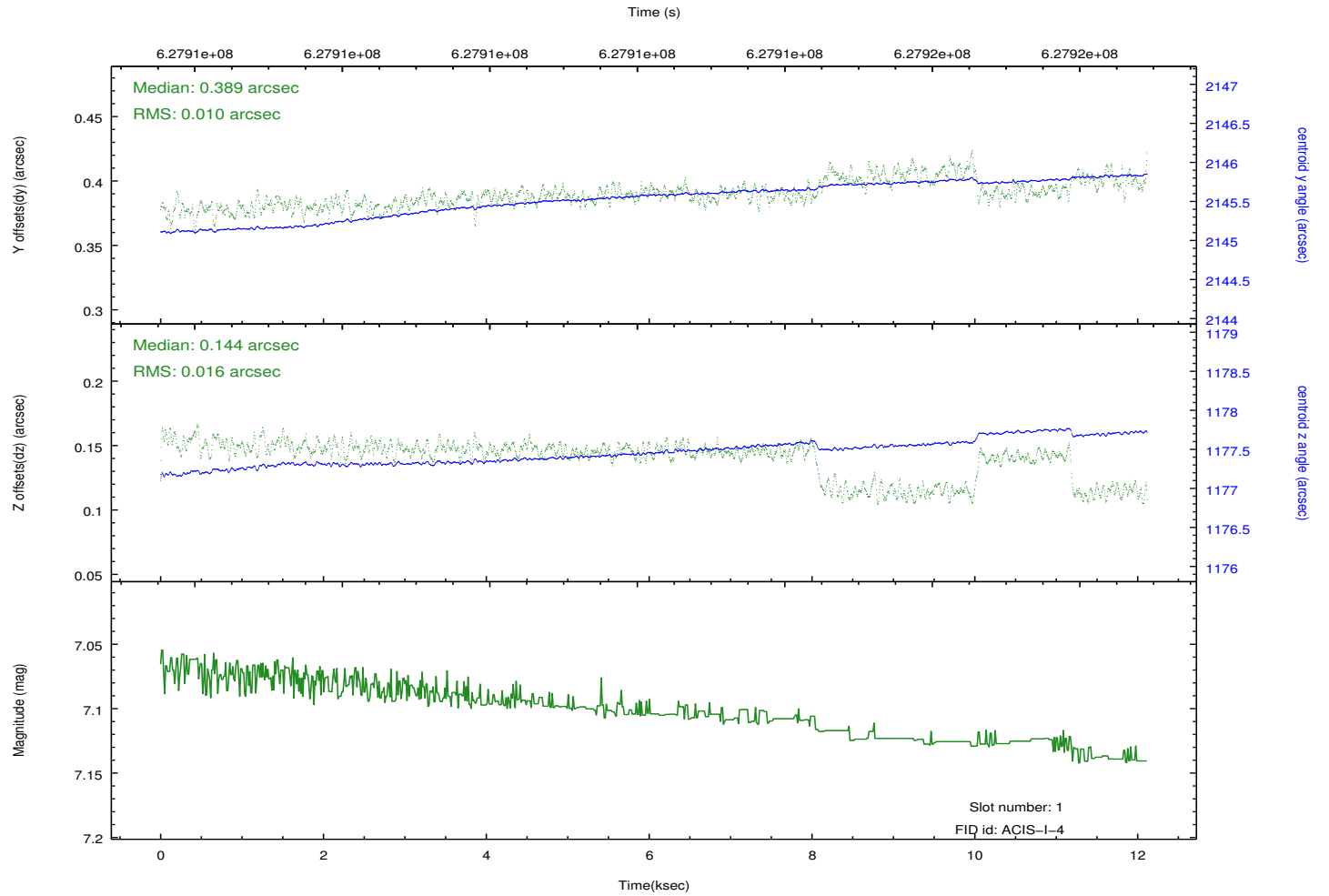
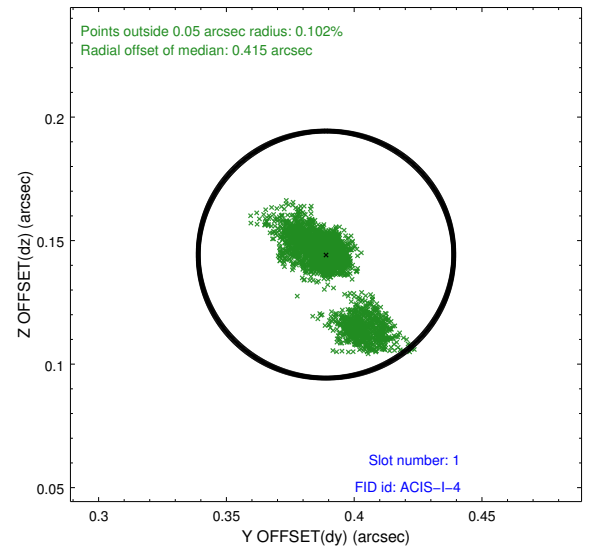
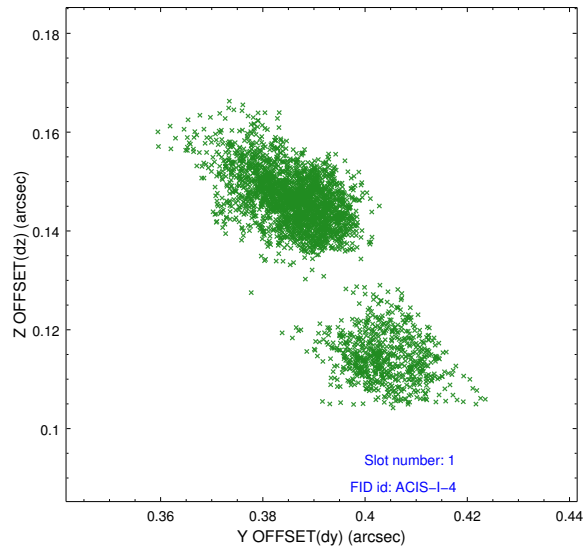


2.5 FID Slots

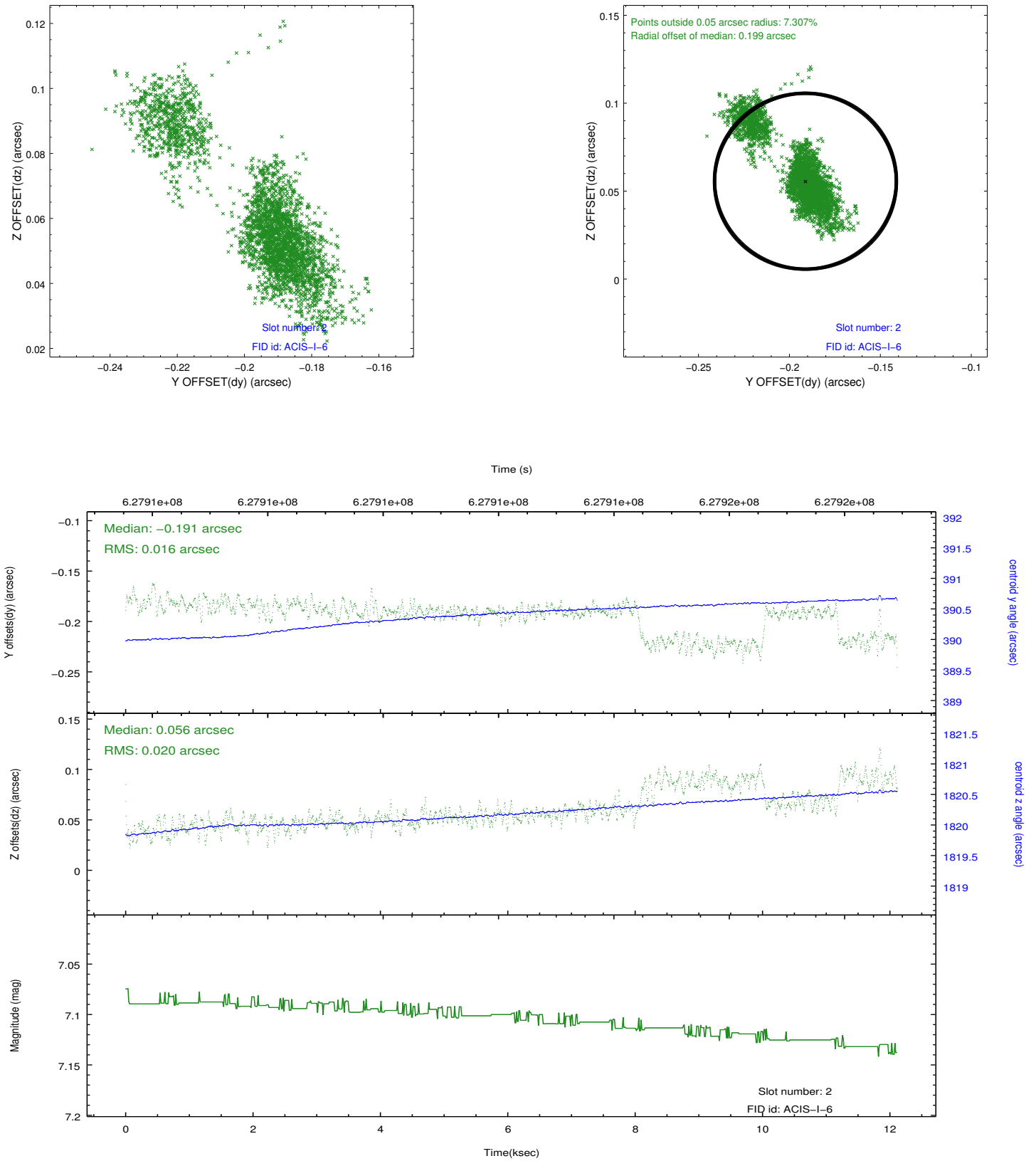
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2017.11.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	12.05590009284

A.2 Comments