

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 20852 - L2 Version 1
Chandra X-Ray Center

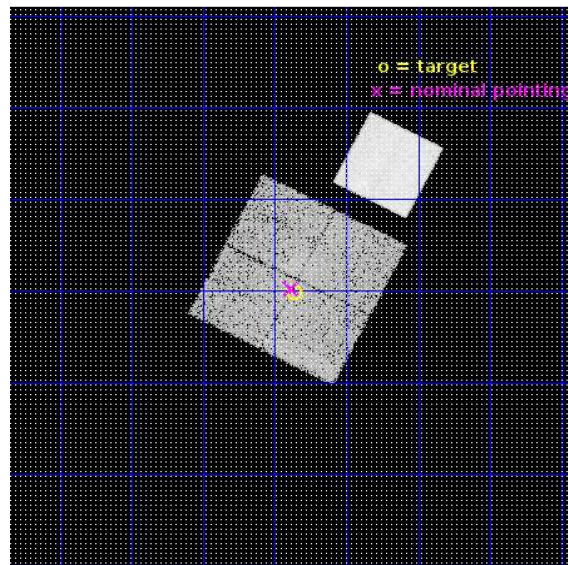
L2 Processing Date : Nov 20 2017

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1 Front

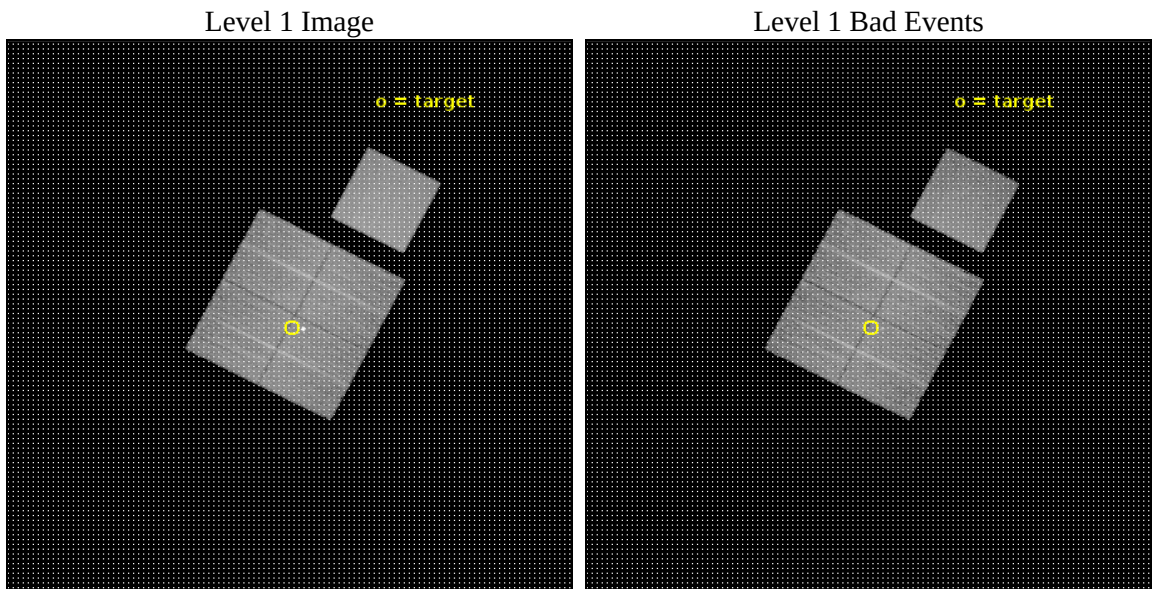
seq_num	801659	Sequence number
obs_id	20852	Observation id
title	A Violent merger in the cluster PLCKESZ G200.9-28.2: Relic formation caught in action?	Proposal title
observer	Daniel Wik	Principal investigator
object	PLCKESZ G200.9-28.2	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	72.589954	Observer's specified target RA [deg]
dec_targ	-3.004375	Observer's specified target Dec [deg]
ra_nom	72.596246356769	Nominal RA [deg]
dec_nom	-2.9957304602844	Nominal Dec [deg]
roll_nom	27.209016346158	Nominal Roll [deg]
revision	1	Processing version of data
ontime	18053.112563252	Sum of GTIs [s]
livetime	17817.235357105	Livetime [s]
ontime0	18046.789482594	Sum of GTIs [s]
ontime1	18053.112563252	Sum of GTIs [s]
ontime2	18053.153653145	Sum of GTIs [s]
ontime3	18053.194653392	Sum of GTIs [s]
ontime7	18056.376753449	Sum of GTIs [s]
l2events	119427	Number of level 2 events



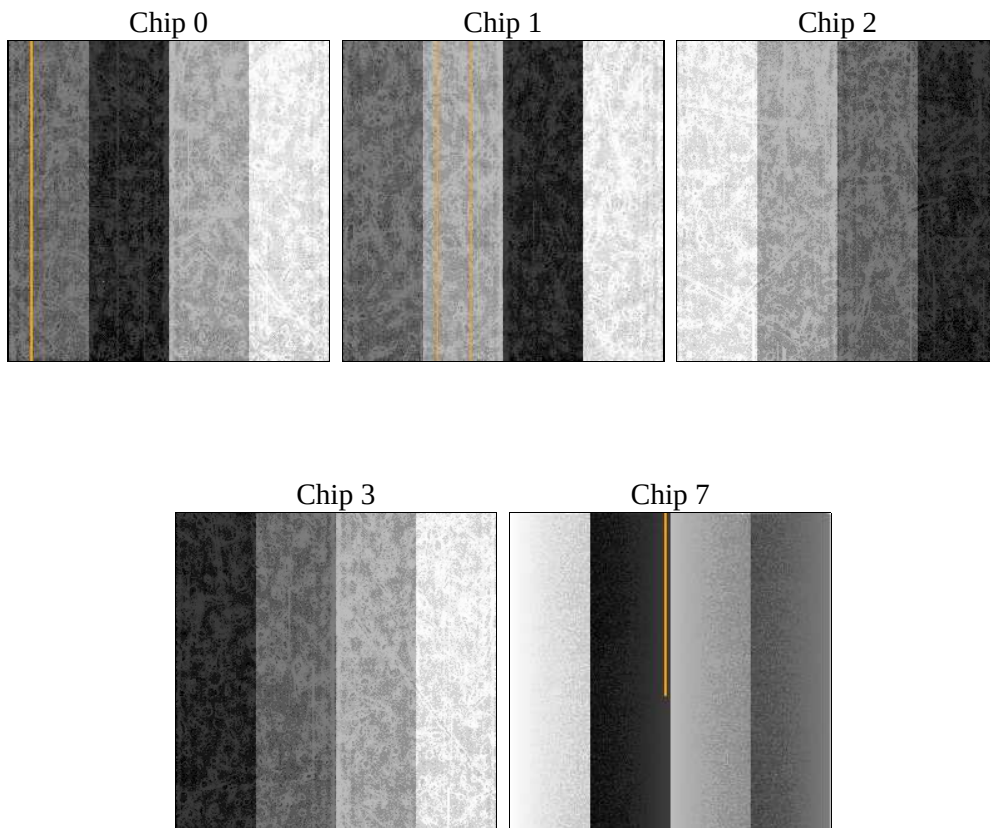
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	18000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	18053.112563252	Sum of GTIs [s]
caldsver	4.7.6	 	ontime0	18046.789482594	Sum of GTIs [s]
date	2017-11-20T20:45:06	Date and time of file creation	ontime1	18053.112563252	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	18053.153653145	Sum of GTIs [s]
			ontime3	18053.194653392	Sum of GTIs [s]
			ontime7	18056.376753449	Sum of GTIs [s]
			l1events	688246	Number of level 1 events

2.1.4 Events

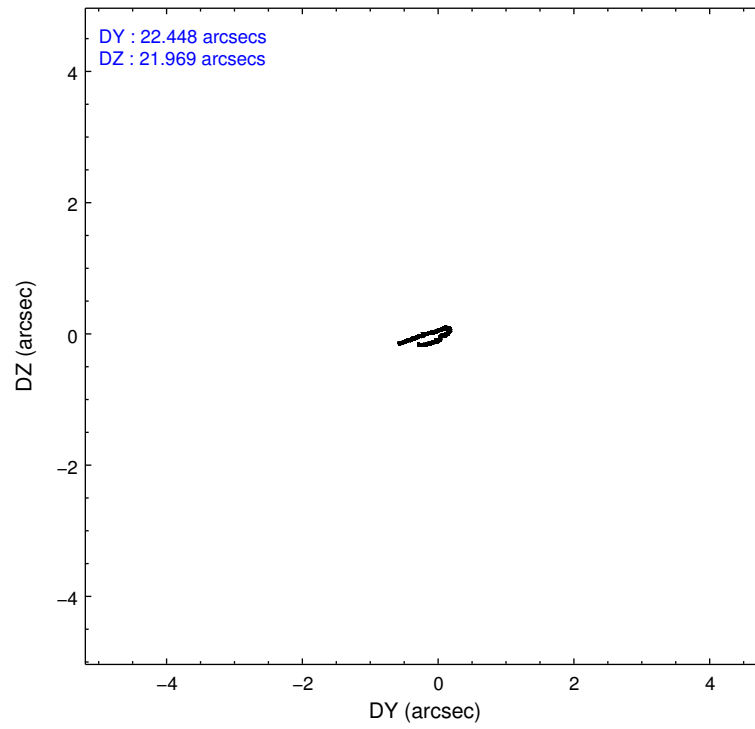
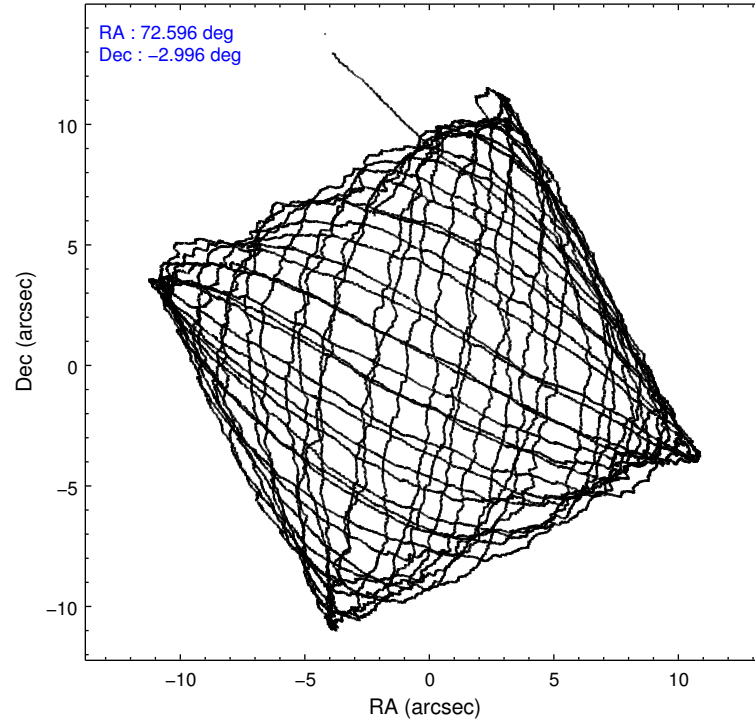
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	120952	138251	129603	130496	168944
rejected events	106367	110042	115280	116925	96772
rejected %	87%	79%	88%	89%	57%

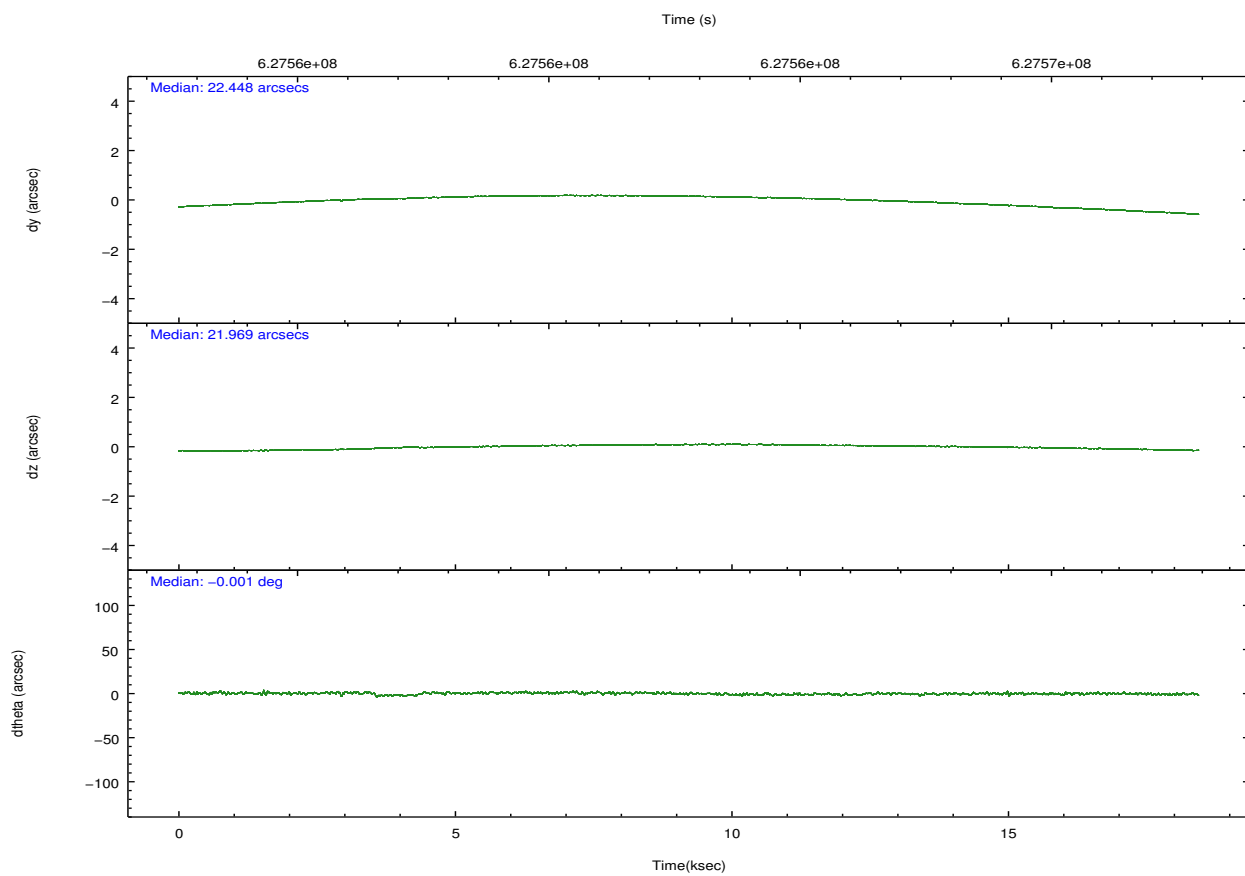
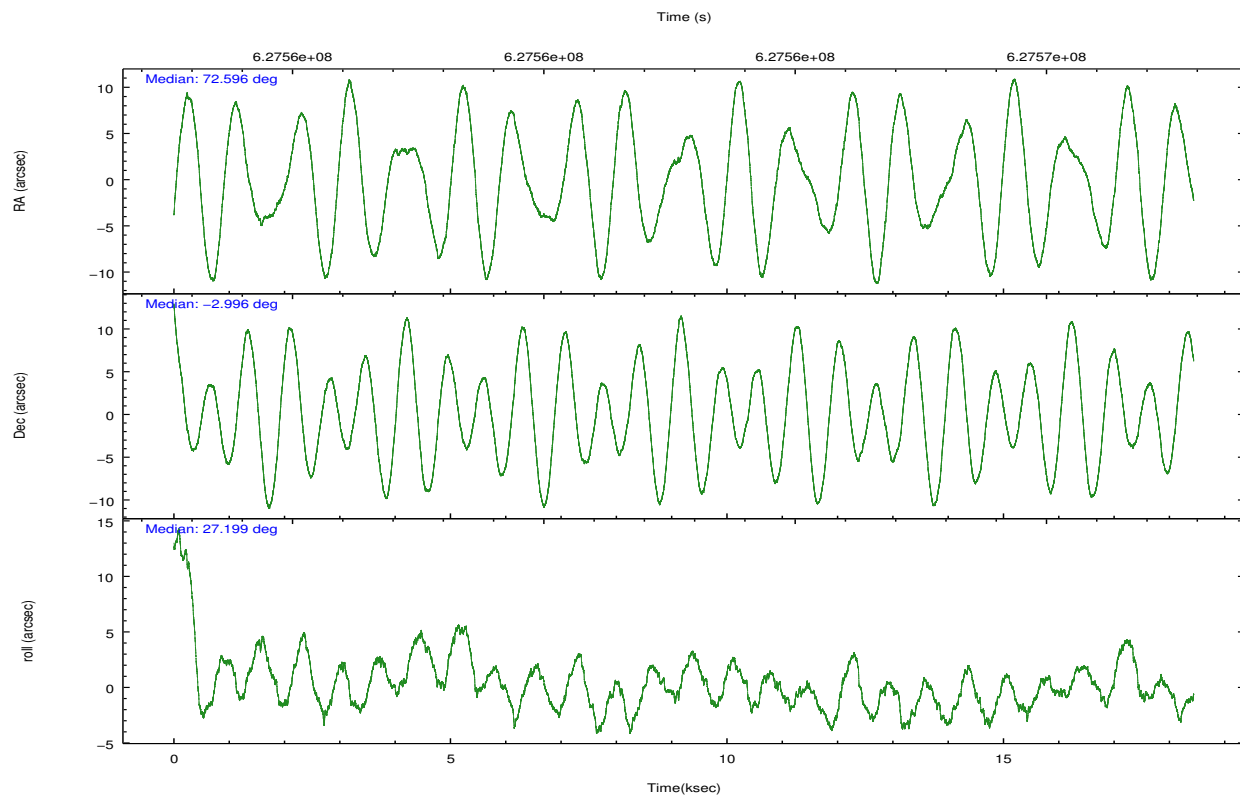
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	5109	17354	5464	4697	6002
	4%	12%	4%	3%	3%
grade 1 events	66	163	66	59	250
	0%	0%	0%	0%	0%
grade 2 events	3552	4065	3328	2992	14996
	2%	2%	2%	2%	8%
grade 3 events	1524	1495	1404	1459	5743
	1%	1%	1%	1%	3%
grade 4 events	1385	1494	1389	1513	5634
	1%	1%	1%	1%	3%
grade 5 events	5279	5572	5072	6142	16483
	4%	4%	3%	4%	9%
grade 6 events	3022	3817	2741	2912	39812
	2%	2%	2%	2%	23%
grade 7 events	101015	104291	110139	110722	80024
	83%	75%	84%	84%	47%

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	72.581334	72.59624635676936	CCD I2 on	Y	Y
[deg] Pointing Dec	-3.019015	-2.995730460284357	CCD I3 on	Y	Y
[deg] Pointing Roll	26.999551	27.2090163461585	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)	627553995.184000	627552925.82812	CCD S5 on	N	N
Observation start date	2017-11-20T08:32:06	2017-11-20T08:15:25	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	627571995.184000	627572877.4543	On-chip summing requested	N	N
Observation end date	2017-11-20T13:32:06	2017-11-20T13:47:57	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



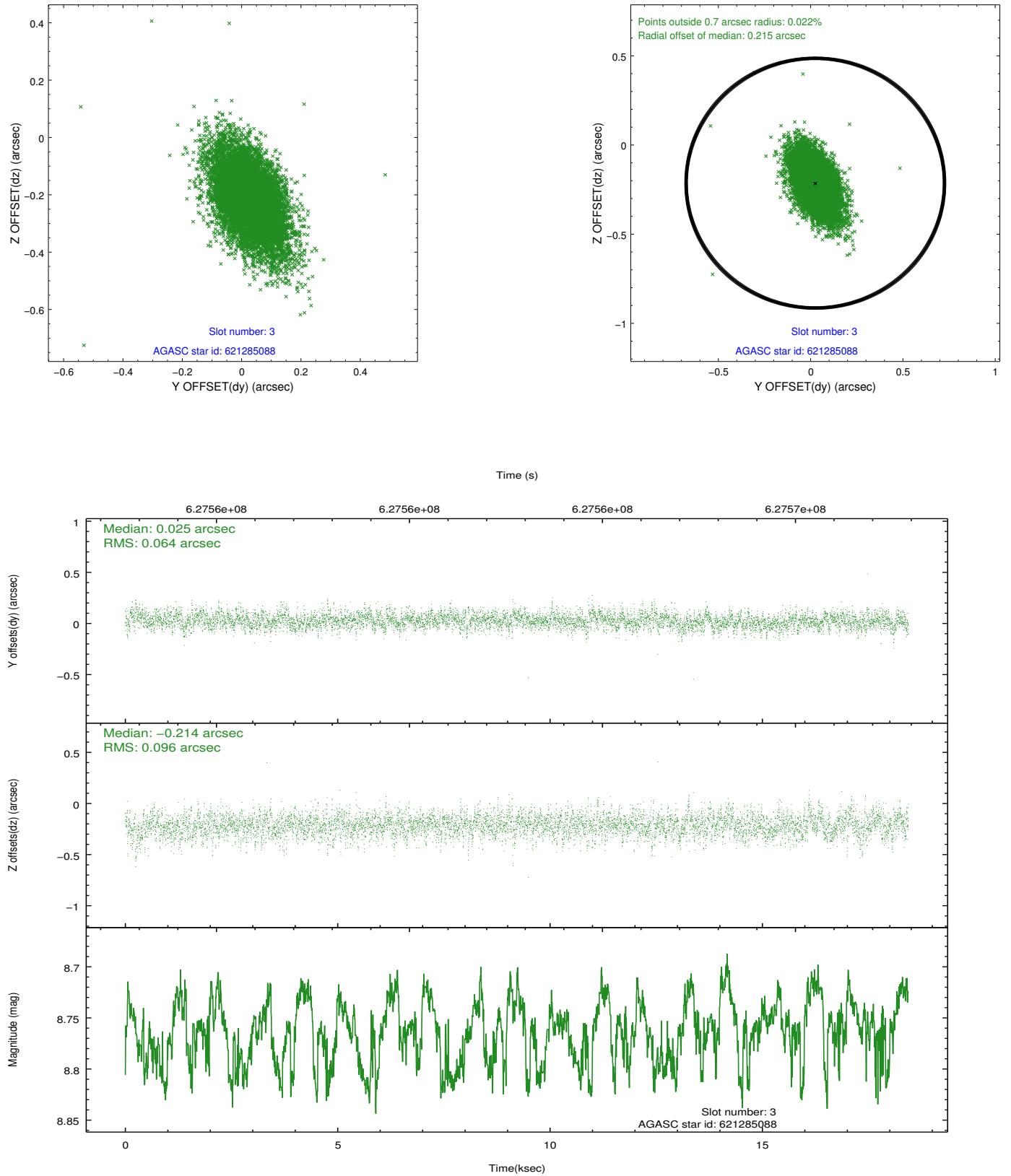


Slot Statistics

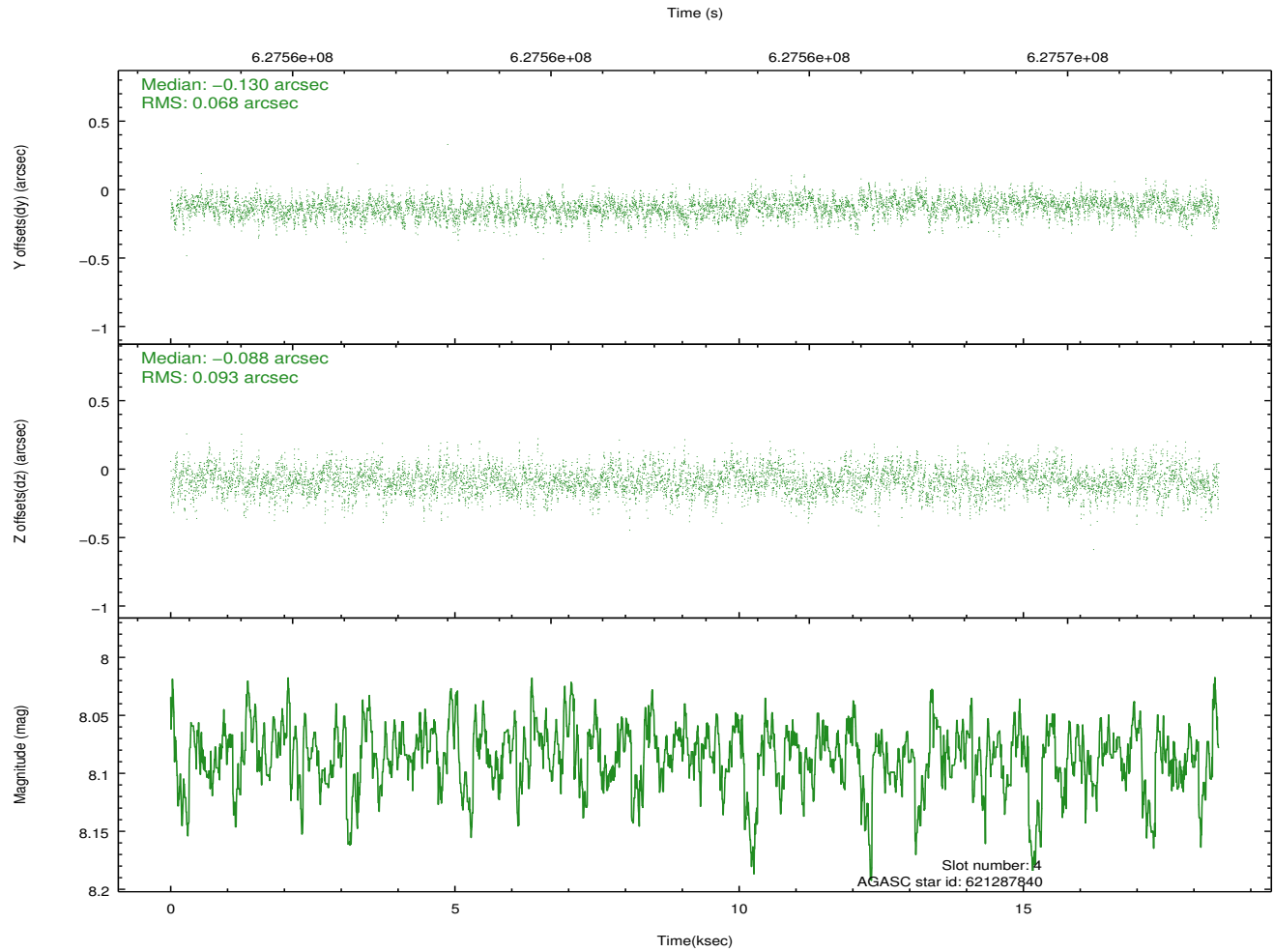
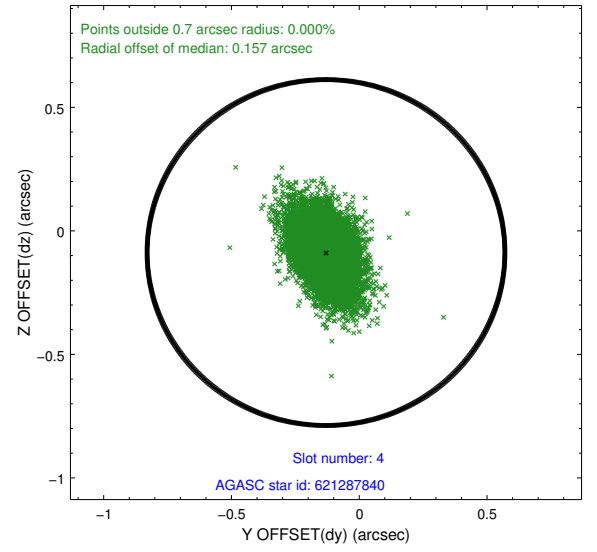
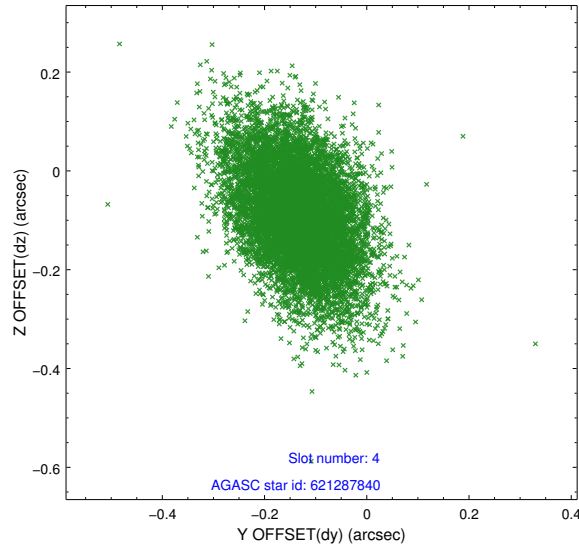
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-2	7.16	4498	-0.372	-0.219	0.011	0.020	0.000000	0.000000	-777.29	-732.84
1	FID		ACIS-I-4	7.24	4498	0.436	0.181	0.010	0.017	0.000000	0.000000	2137.54	1173.63
2	FID		ACIS-I-6	7.23	4498	-0.164	0.100	0.012	0.020	0.000000	0.000000	383.02	1816.75
3	GUIDE	used	621285088	8.76	8993	0.025	-0.214	0.115	0.214	72.185532	-2.636590	-643.83	1872.22
4	GUIDE	used	621287840	8.08	8994	-0.130	-0.088	0.119	0.208	72.904853	-2.949814	1149.56	-305.84
5	GUIDE	used	621289504	8.89	8984	-0.030	0.205	0.138	0.233	73.076403	-3.394128	972.78	-2010.91
6	GUIDE	used	621817120	8.68	8990	0.489	0.716	0.140	0.239	72.343289	-3.782403	-2008.38	-2060.40
7	GUIDE	used	621284808	8.62	8990	-0.354	-0.617	0.118	0.215	72.478666	-2.477405	555.59	1904.23

2.4 Star Slots

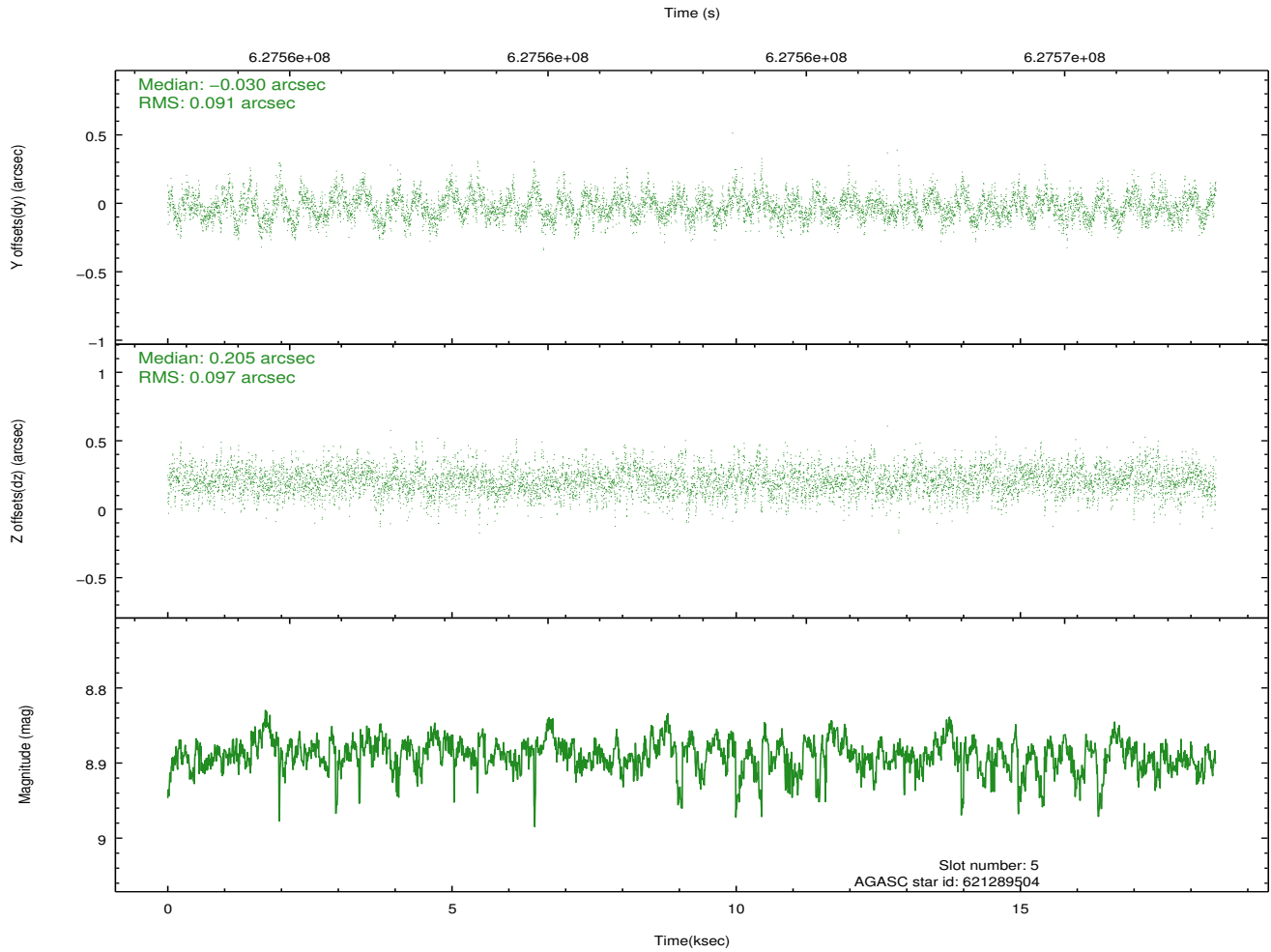
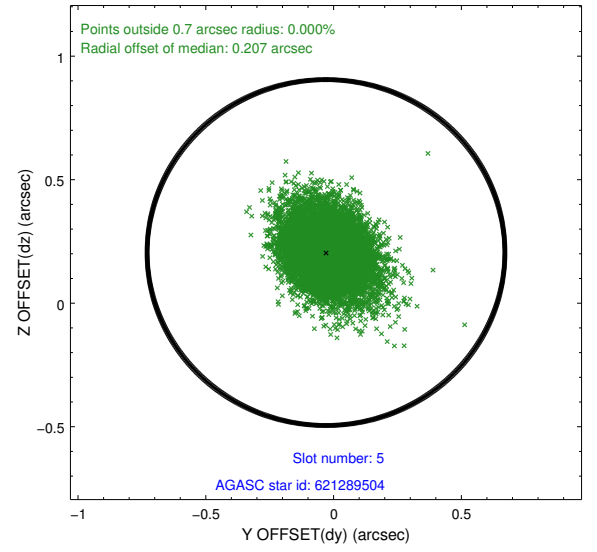
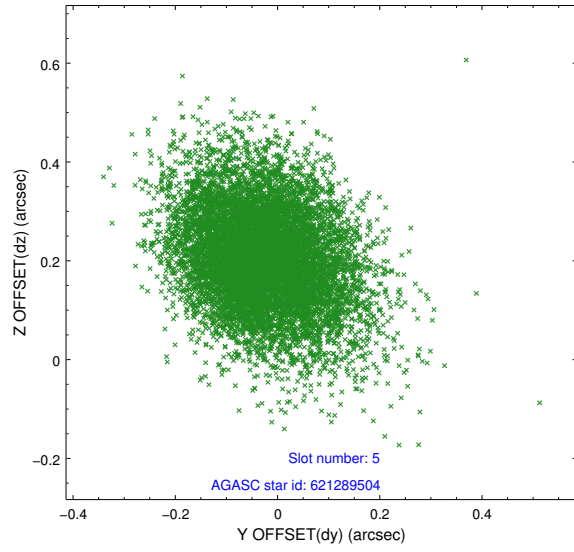
2.4.1 Slot 3



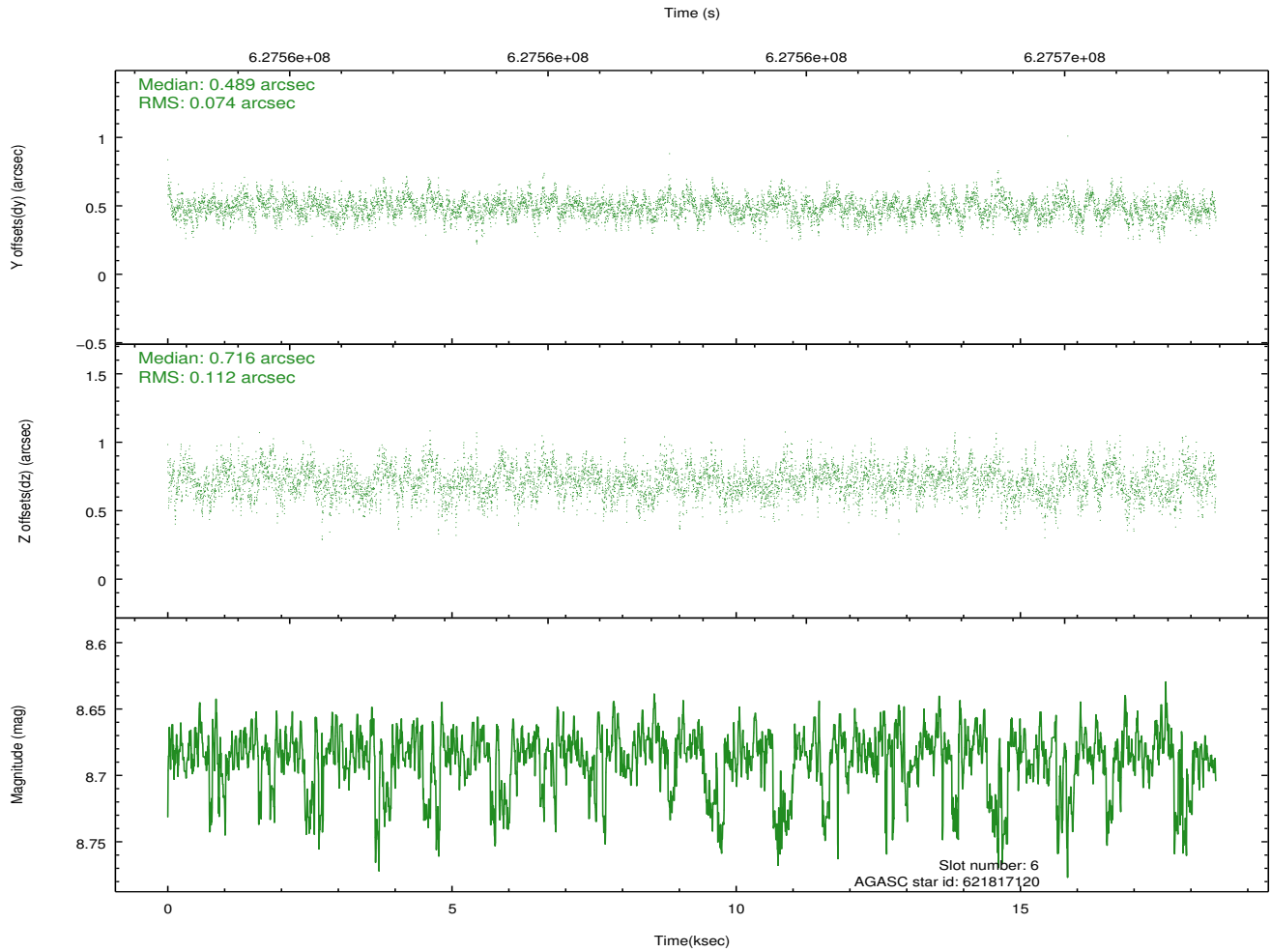
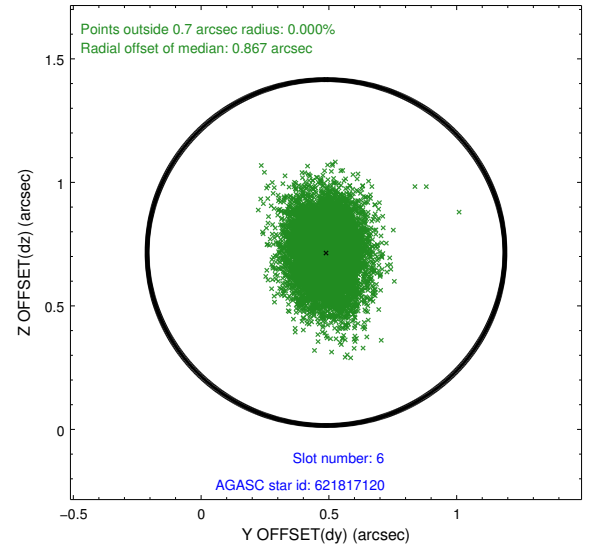
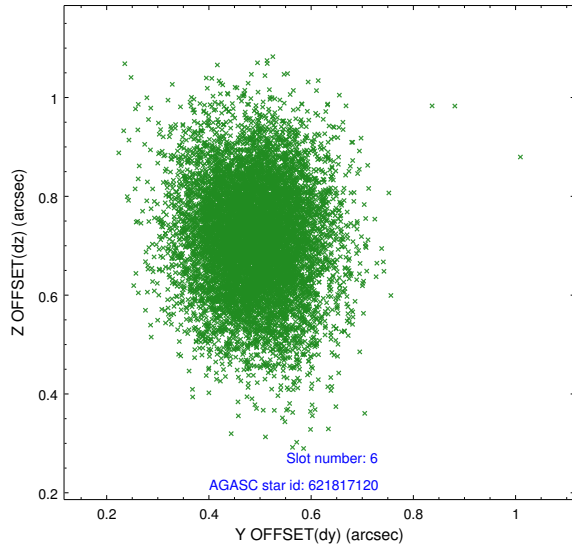
2.4.2 Slot 4



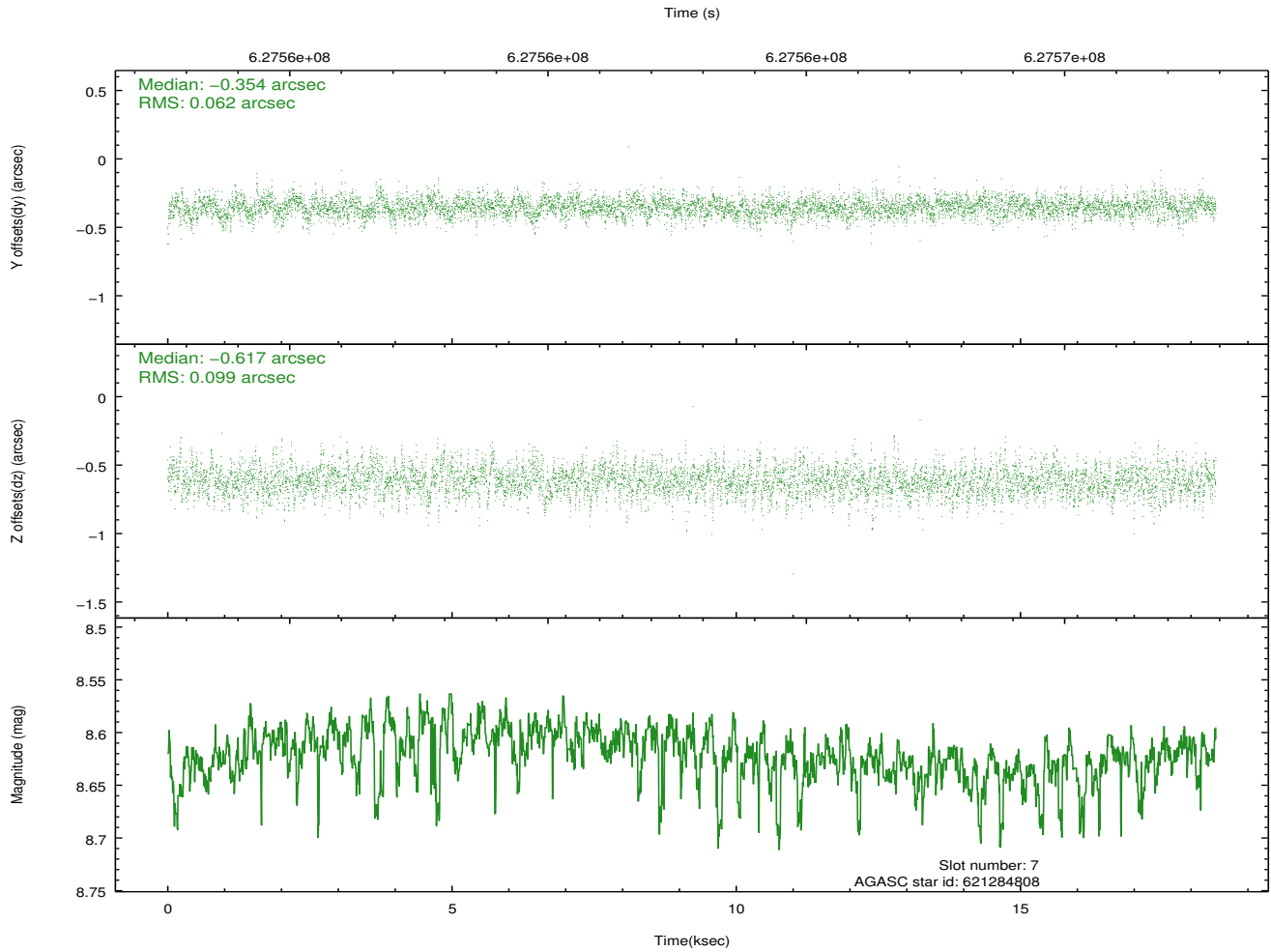
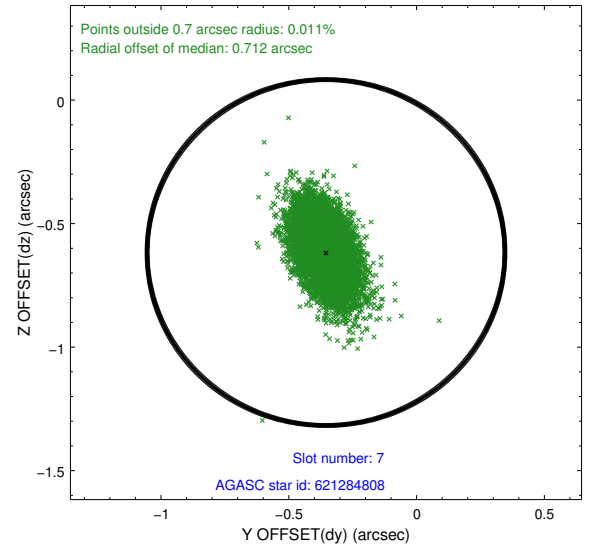
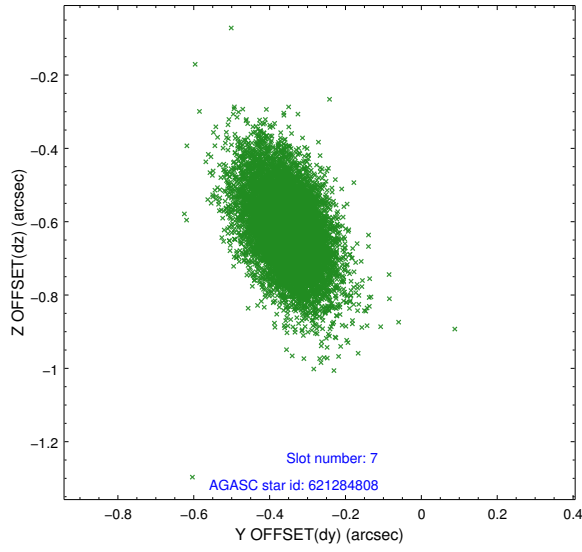
2.4.3 Slot 5



2.4.4 Slot 6

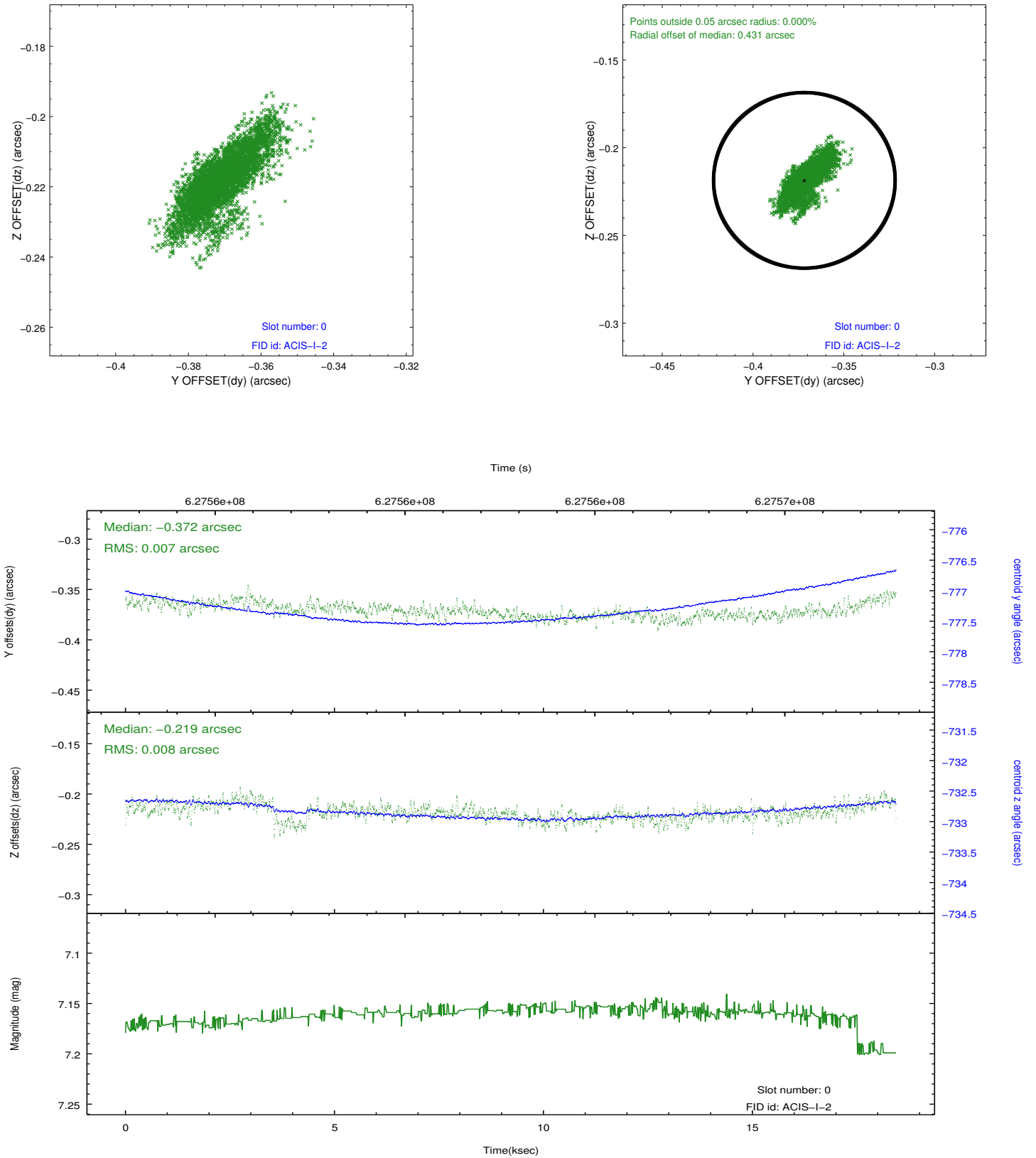


2.4.5 Slot 7

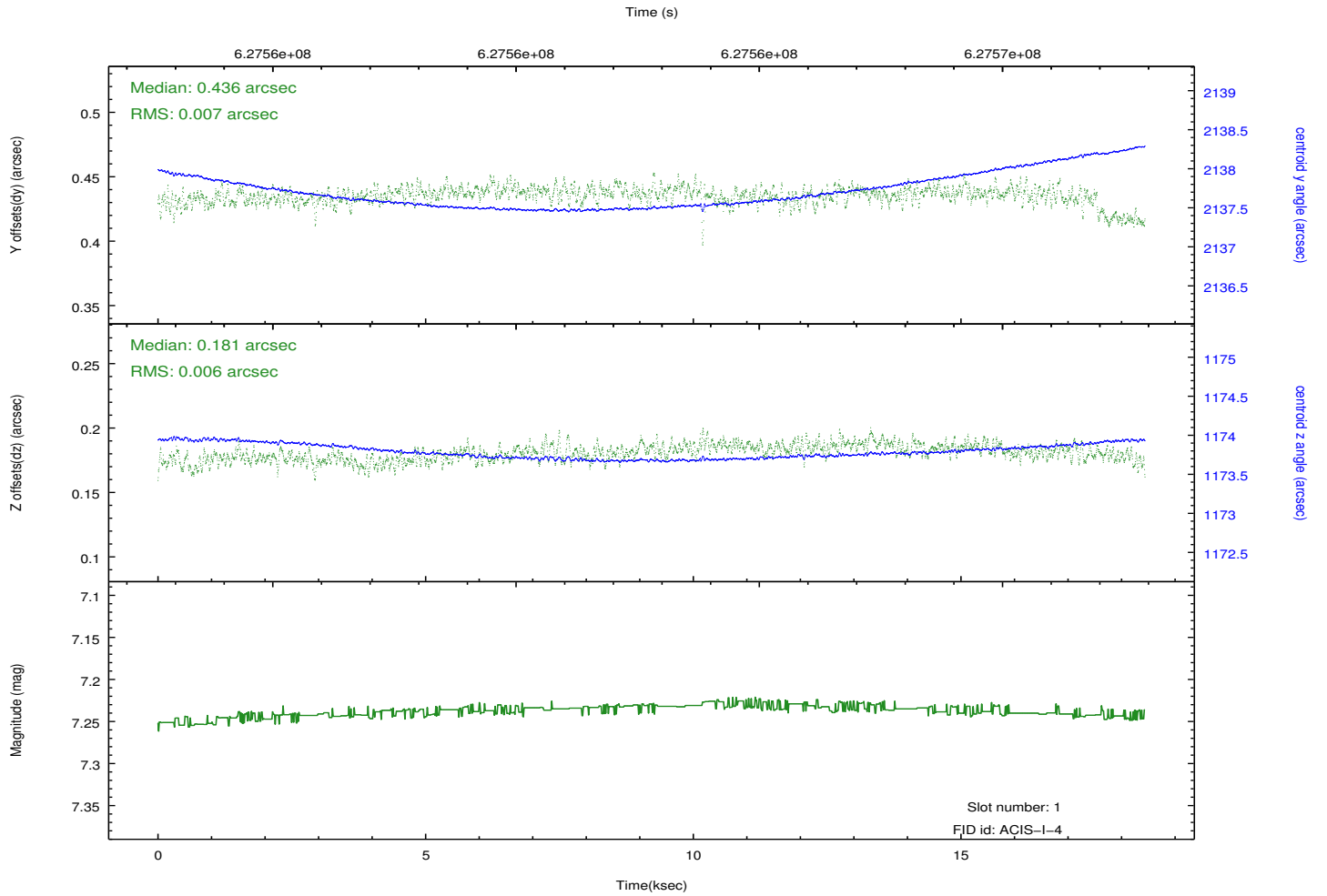
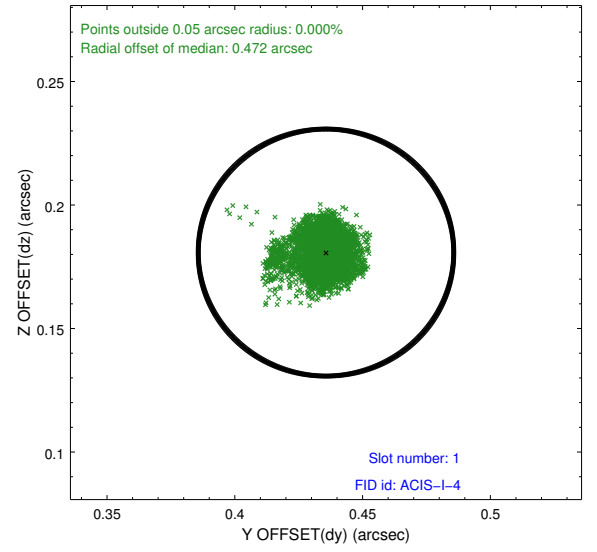
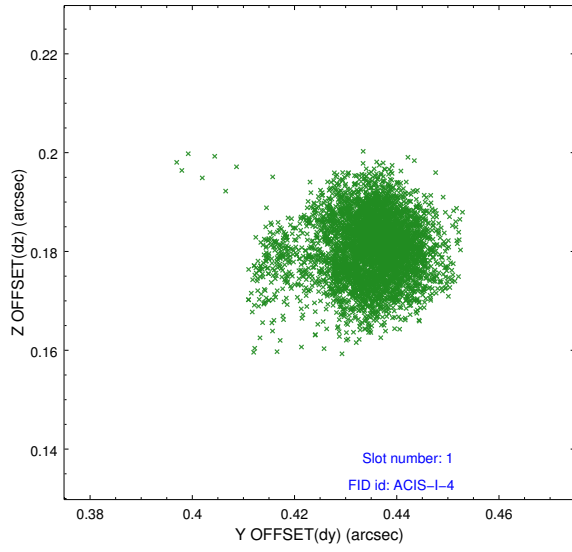


2.5 FID Slots

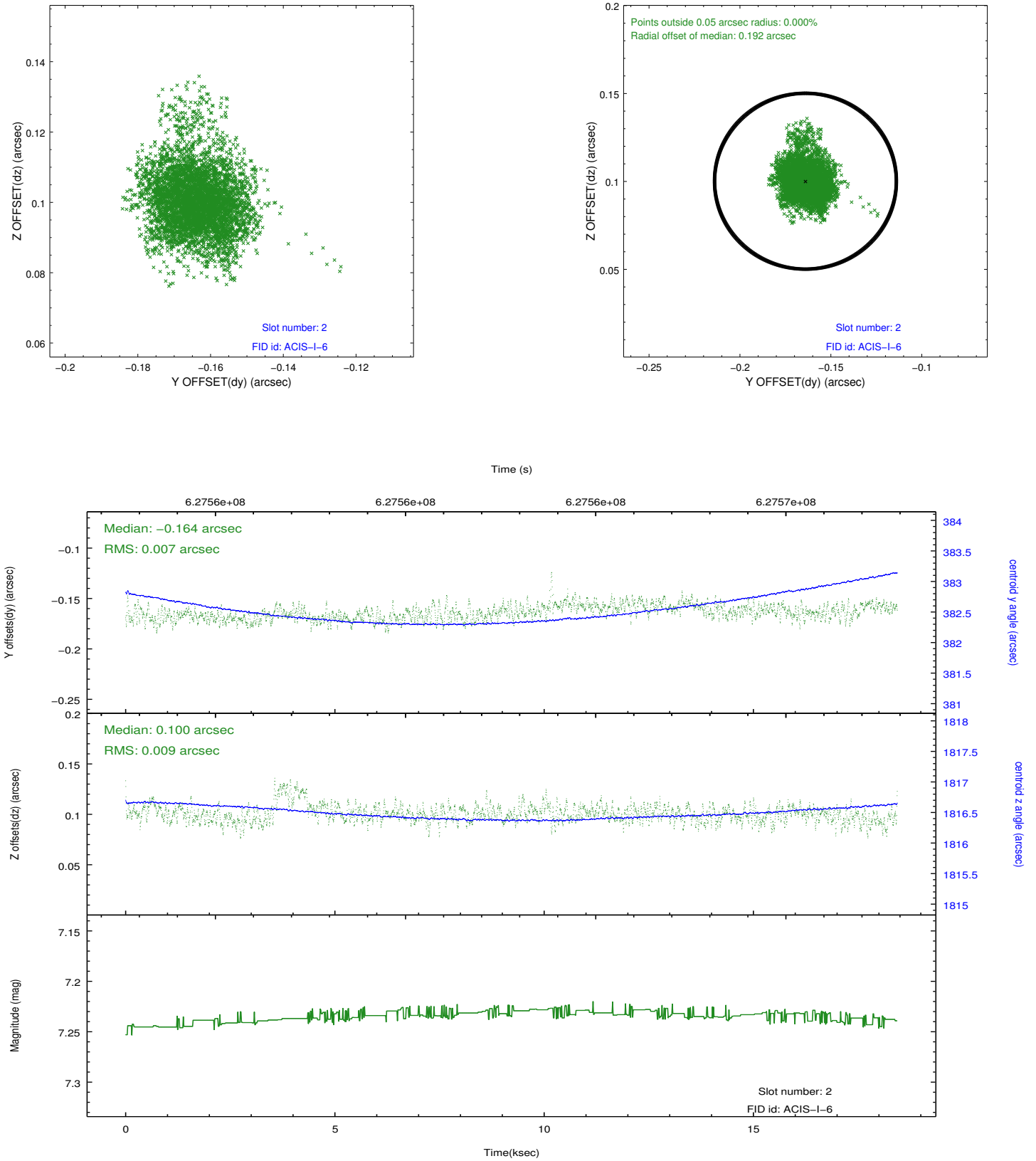
2.5.1 Slot 0



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)	2017.11.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	18.053112563252

A.2 Comments