

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19538 - L2 Version 1
Chandra X-Ray Center

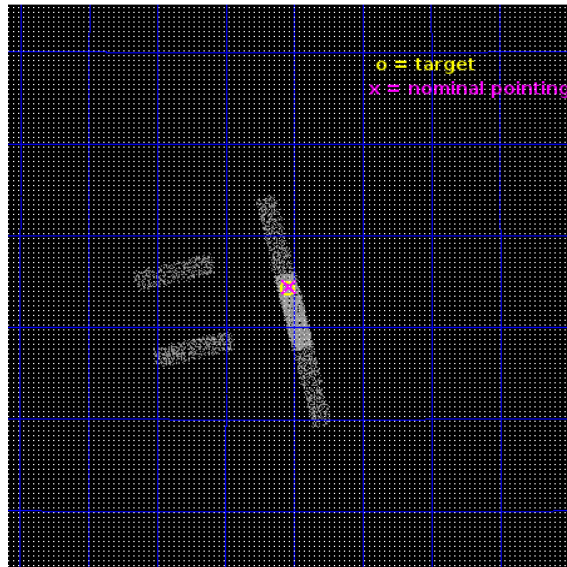
L2 Processing Date : Oct 12 2017

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1 Front

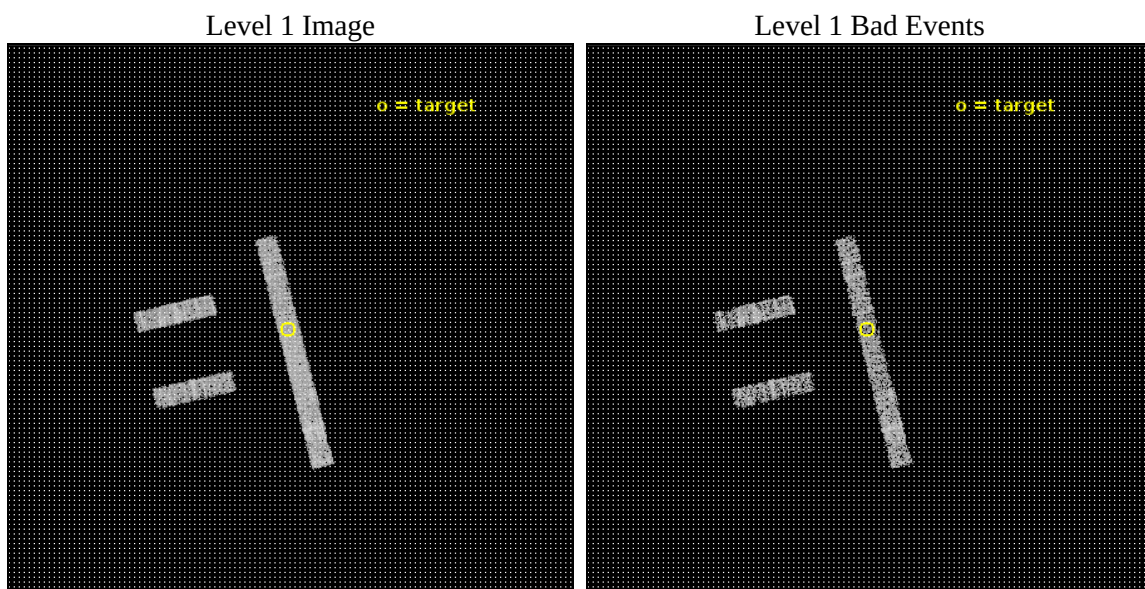
seq_num	703386	Sequence number
obs_id	19538	Observation id
title	Investigating X-ray Bias in Low-L, Low-z Quasars	Proposal title
observer	Gordon Richards	Principal investigator
object	SDSSJ083332.92+164411.0	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	128.387083	Observer's specified target RA [deg]
dec_targ	16.736417	Observer's specified target Dec [deg]
ra_nom	128.38370087792	Nominal RA [deg]
dec_nom	16.740636445788	Nominal Dec [deg]
roll_nom	76.462578026392	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3071.0	Sum of GTIs [s]
livetime	2949.9346807039	Livetime [s]
ontime2	3070.9979174137	Sum of GTIs [s]
ontime3	3071.0	Sum of GTIs [s]
ontime6	3071.0	Sum of GTIs [s]
ontime7	3071.0	Sum of GTIs [s]
ontime8	3071.0	Sum of GTIs [s]
l2events	5768	Number of level 2 events



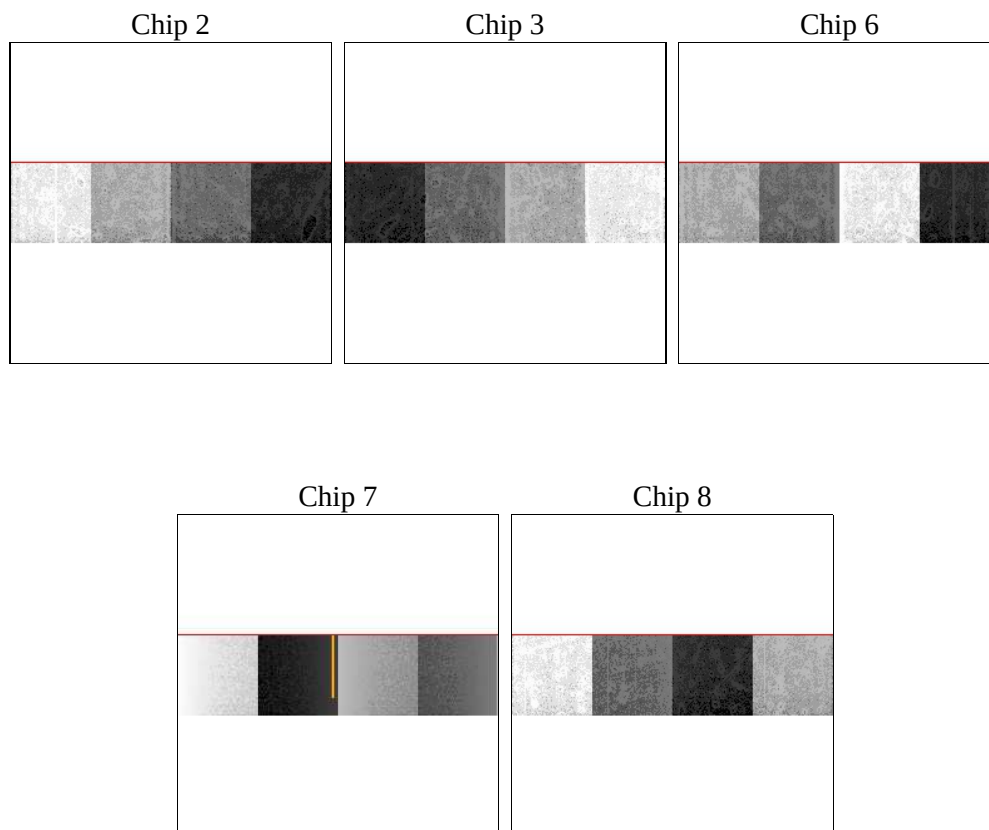
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	3071.0	Sum of GTIs [s]
caldbver	4.7.6	 	ontime2	3070.9979174137	Sum of GTIs [s]
date	2017-10-12T19:12:17	Date and time of file creation	ontime3	3071.0	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	3071.0	Sum of GTIs [s]
			ontime7	3071.0	Sum of GTIs [s]
			ontime8	3071.0	Sum of GTIs [s]
			l1events	33719	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	6215	5290	5916	7443	8855
rejected events	5565	4572	5194	3946	6746
rejected %	89%	86%	87%	53%	76%

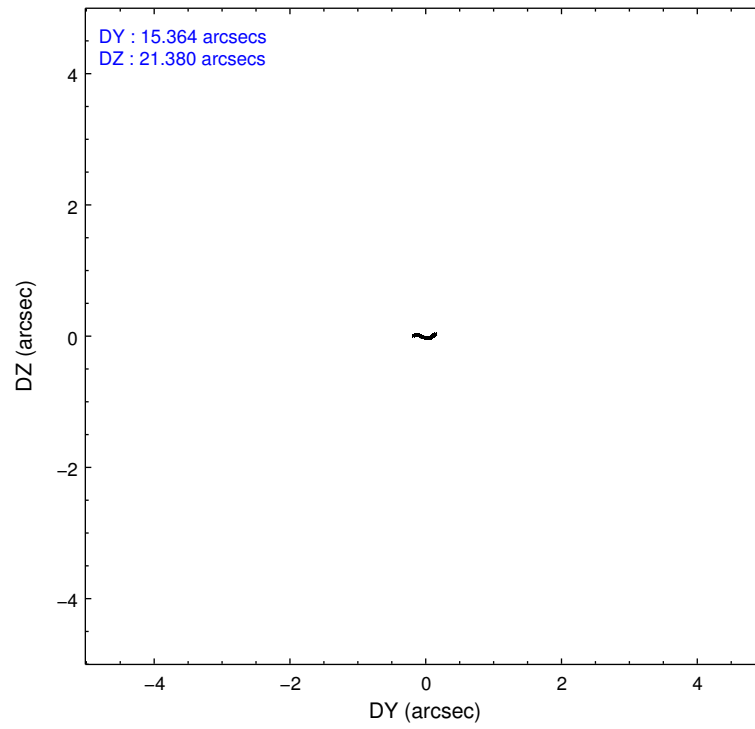
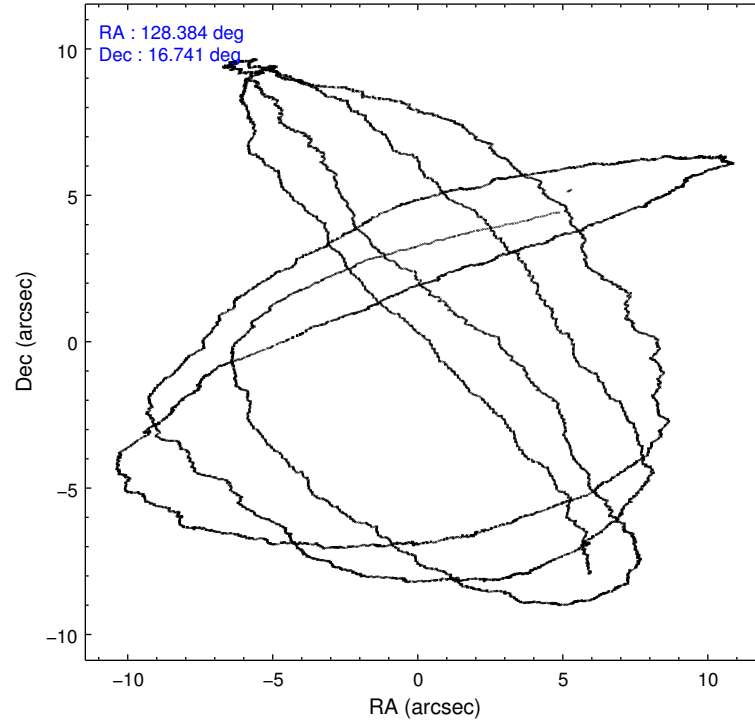
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	181	254	196	331	550
	2%	4%	3%	4%	6%
grade 1 events	2	0	3	18	7
	0%	0%	0%	0%	0%
grade 2 events	176	138	138	720	519
	2%	2%	2%	9%	5%
grade 3 events	86	101	105	369	238
	1%	1%	1%	4%	2%
grade 4 events	108	100	112	404	201
	1%	1%	1%	5%	2%
grade 5 events	201	248	264	764	365
	3%	4%	4%	10%	4%
grade 6 events	101	125	173	1677	601
	1%	2%	2%	22%	6%
grade 7 events	5360	4324	4925	3160	6374
	86%	81%	83%	42%	71%

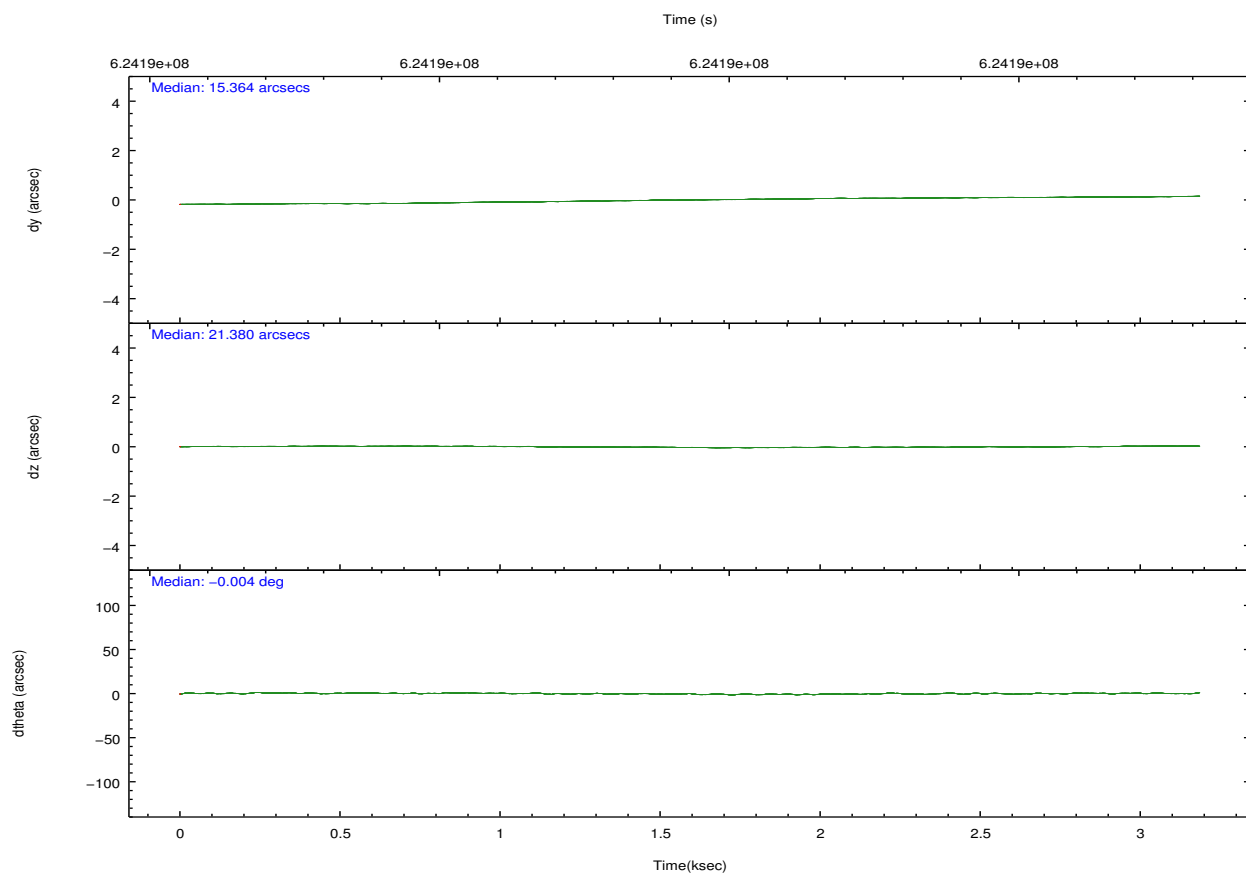
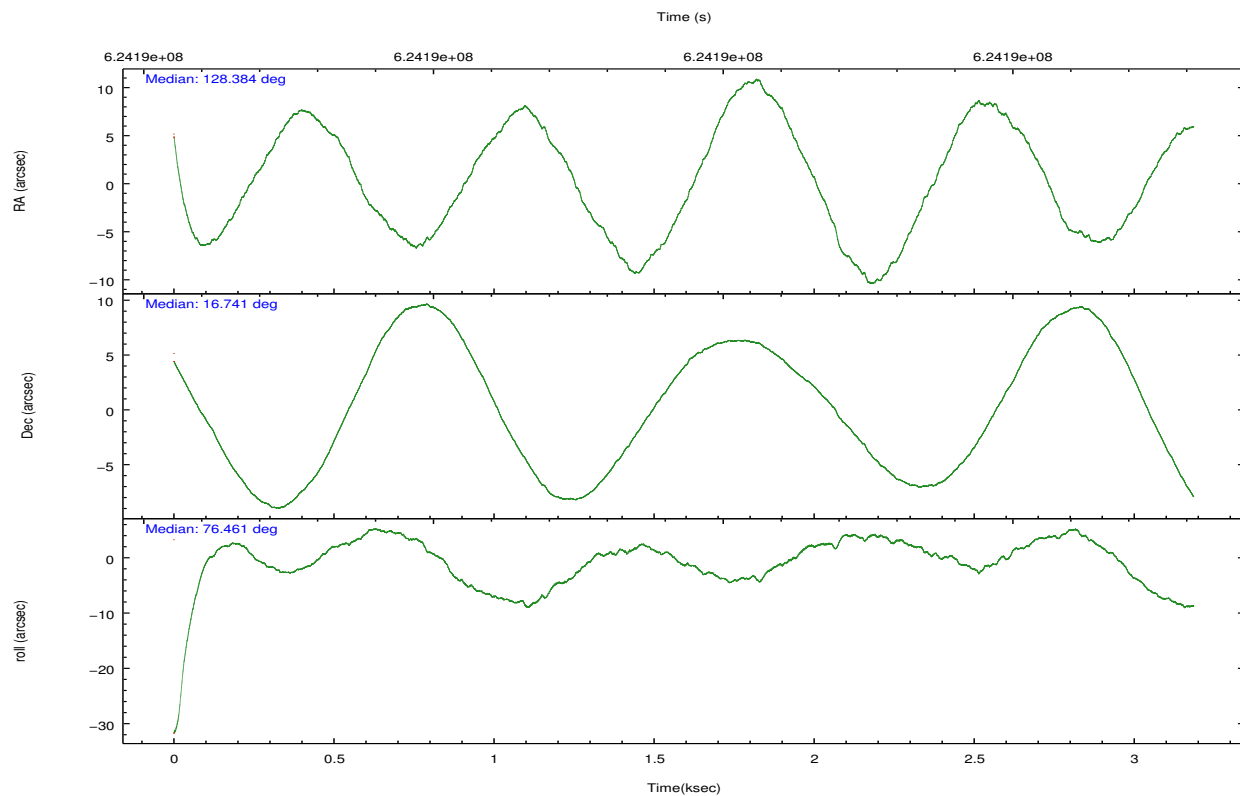
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-23678	ACIS-23678
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	128.392216	128.3837008779197
[deg] Pointing Dec	16.714444	16.74063644578803
[deg] Pointing Roll	76.303615	76.46257802639182
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1425803651734
[mm] SIM translation stage offset	0	0.01005778216563158
[s] Observation start time (MET)	624191472.184000	624189788.9059401
Observation start date	2017-10-12T10:30:03	2017-10-12T10:03:08
[s] Observation end time (MET)	624194472.184000	624195360.2937599
Observation end date	2017-10-12T11:20:03	2017-10-12T11:36:00
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	O1	Y
CCD I3 on	Y	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	CUSTOM	1/4
Subarray start row	385	385
Subarray row count	256	256
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	1

2.3 Aspect



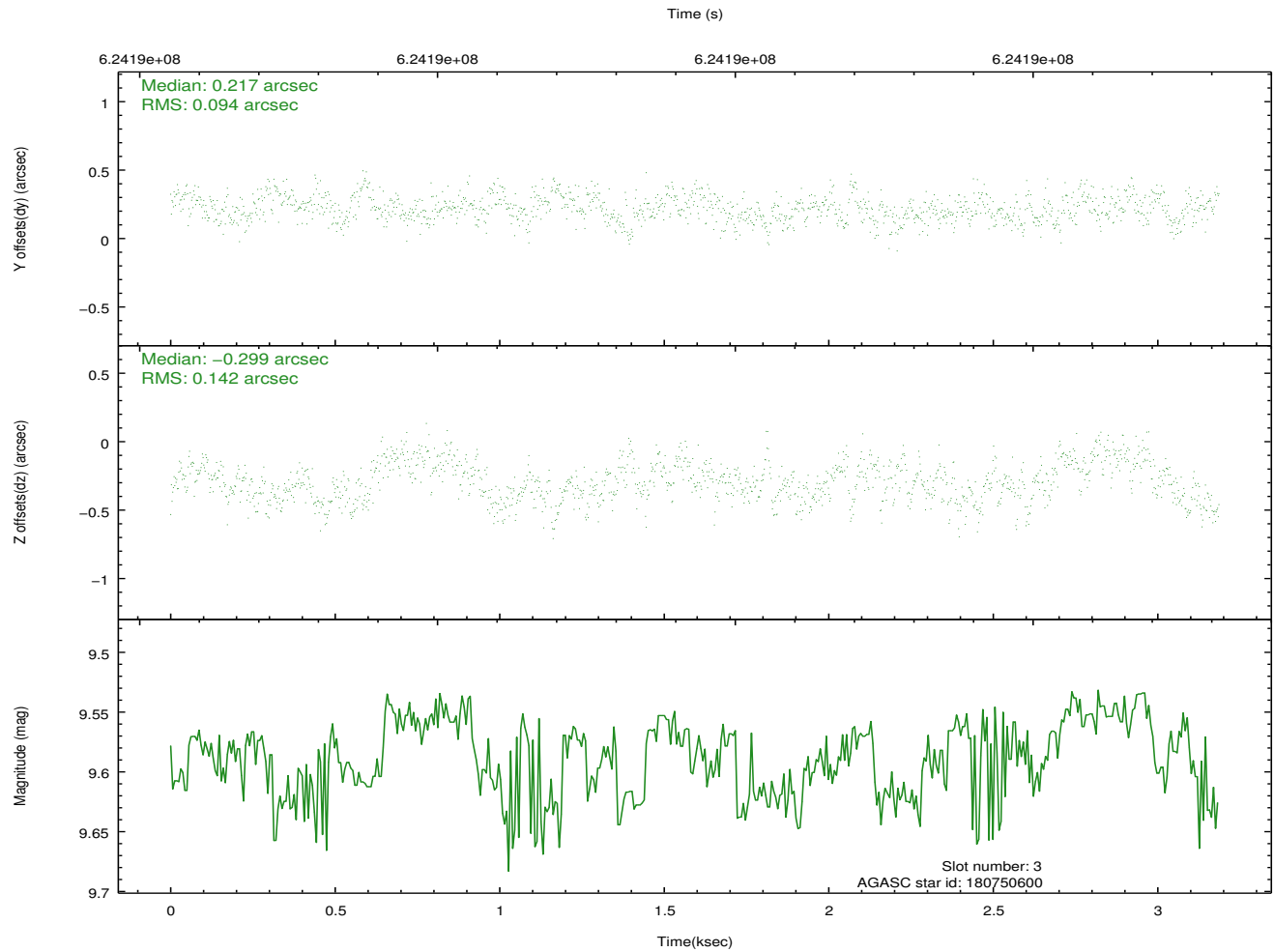
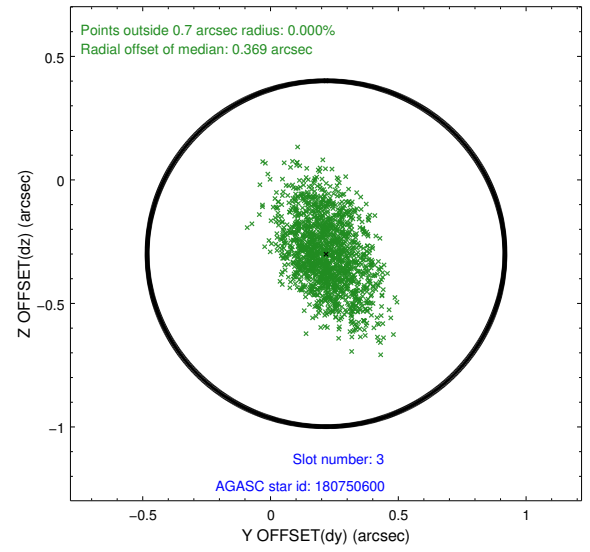
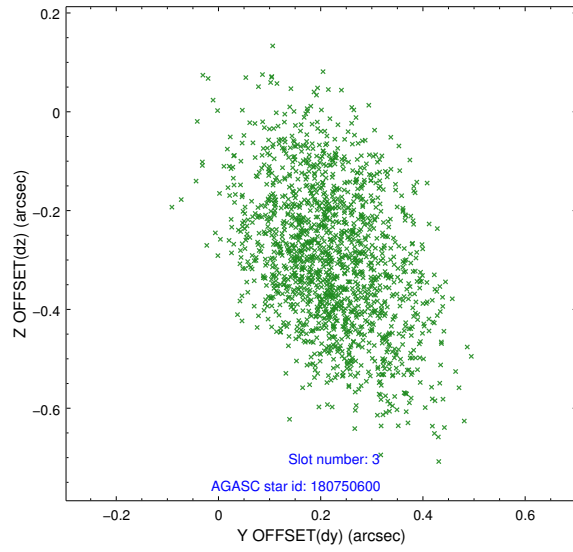


Slot Statistics

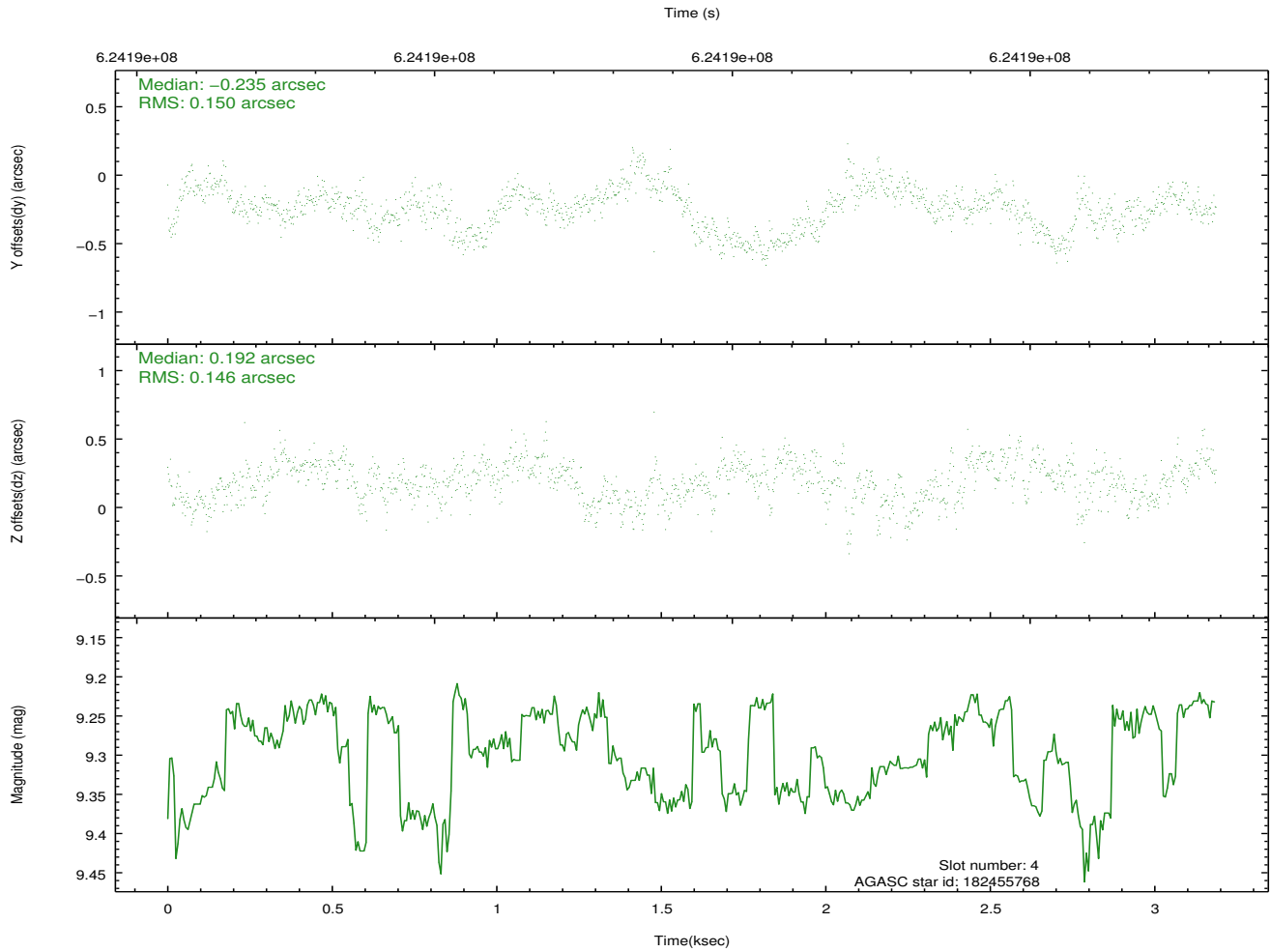
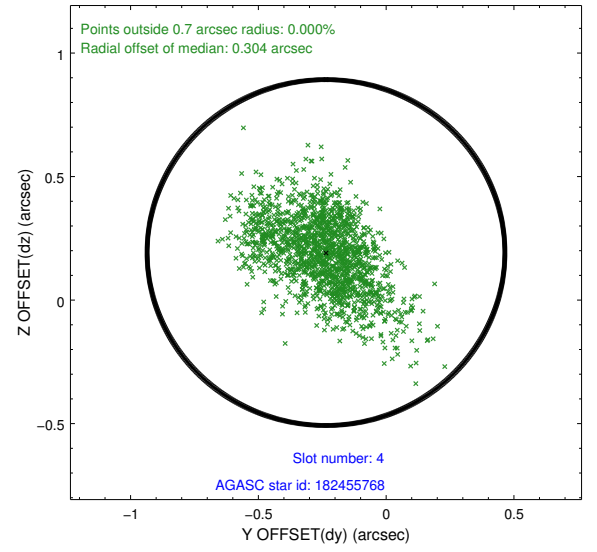
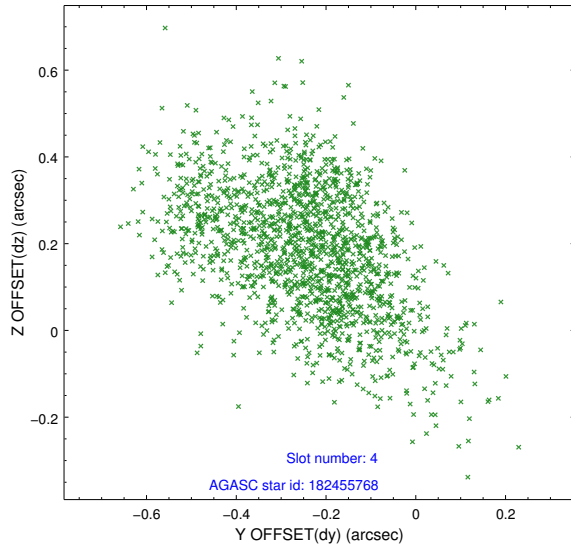
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.00	778	-0.198	-0.056	0.007	0.010	0.000000	0.000000	-768.52	-1742.94
1	FID		ACIS-S-4	7.11	778	0.420	0.111	0.005	0.009	0.000000	0.000000	2144.45	163.64
2	FID		ACIS-S-5	7.10	778	-0.253	-0.046	0.007	0.011	0.000000	0.000000	-1818.87	159.42
3	GUIDE	used	180750600	9.59	1554	0.217	-0.299	0.181	0.305	127.852154	16.229126	-2137.30	1400.95
4	GUIDE	used	182455768	9.29	1555	-0.235	0.192	0.219	0.373	128.691166	16.735688	317.92	-981.79
5	GUIDE	used	182469632	8.85	1554	0.231	-0.012	0.146	0.273	128.080487	16.212841	-2007.92	619.05
6	GUIDE	used	182471808	8.41	1553	-0.045	0.042	0.158	0.259	128.591281	16.880226	740.47	-523.66
7	GUIDE	used	182454920	9.37	1549	-0.156	0.086	0.214	0.380	128.968349	17.262973	2391.17	-1456.18

2.4 Star Slots

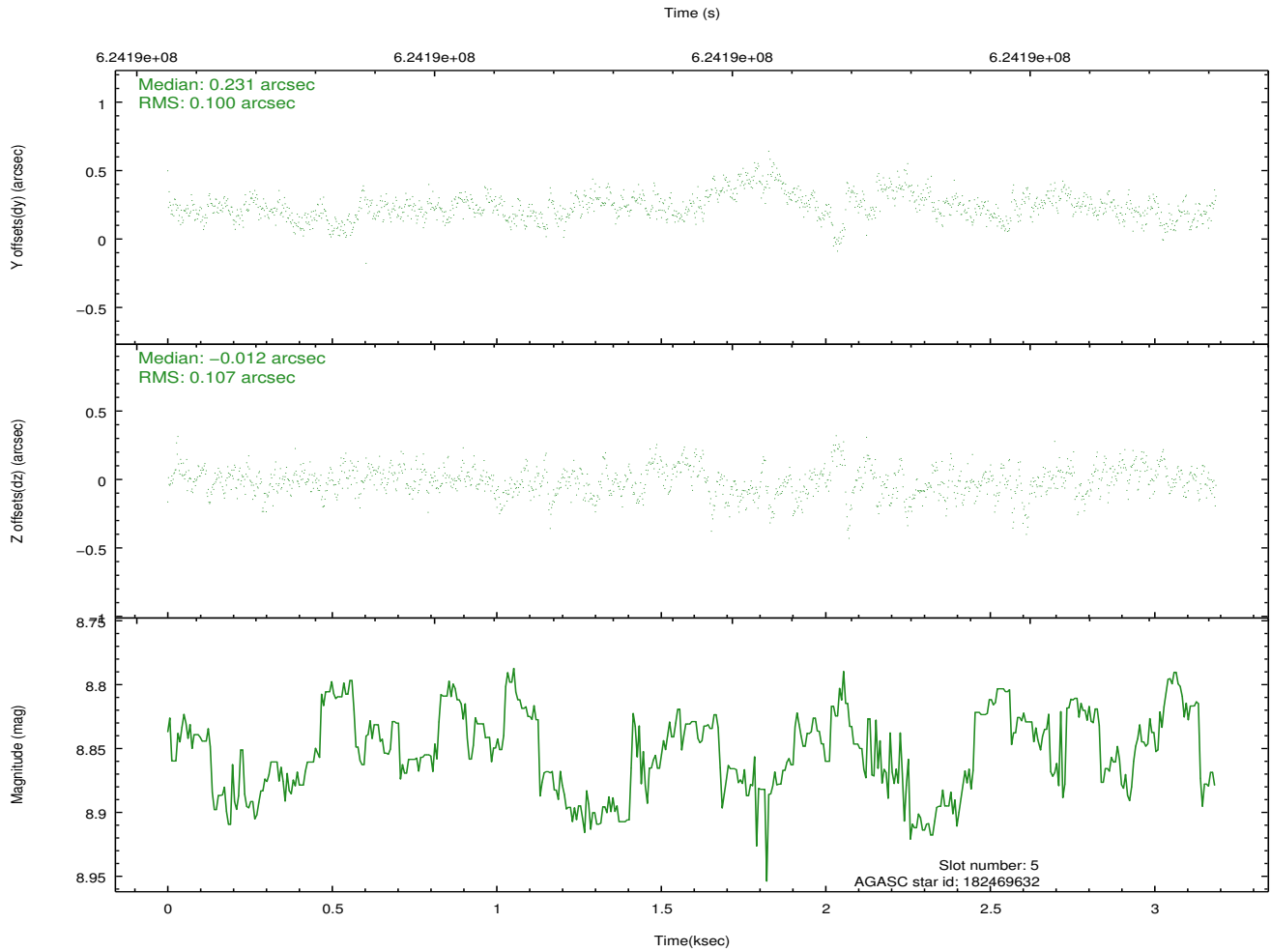
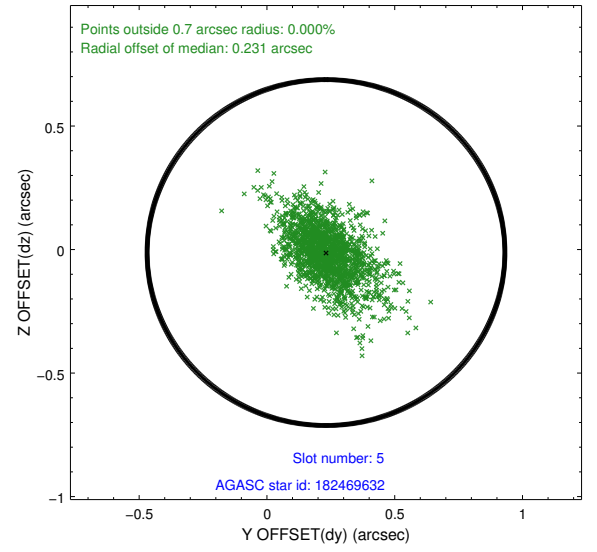
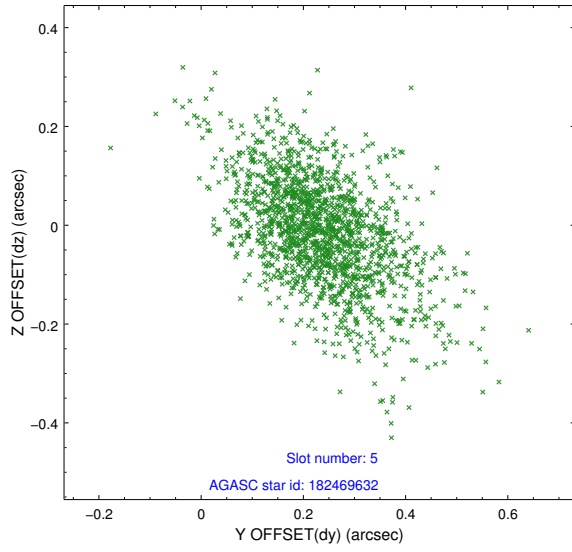
2.4.1 Slot 3



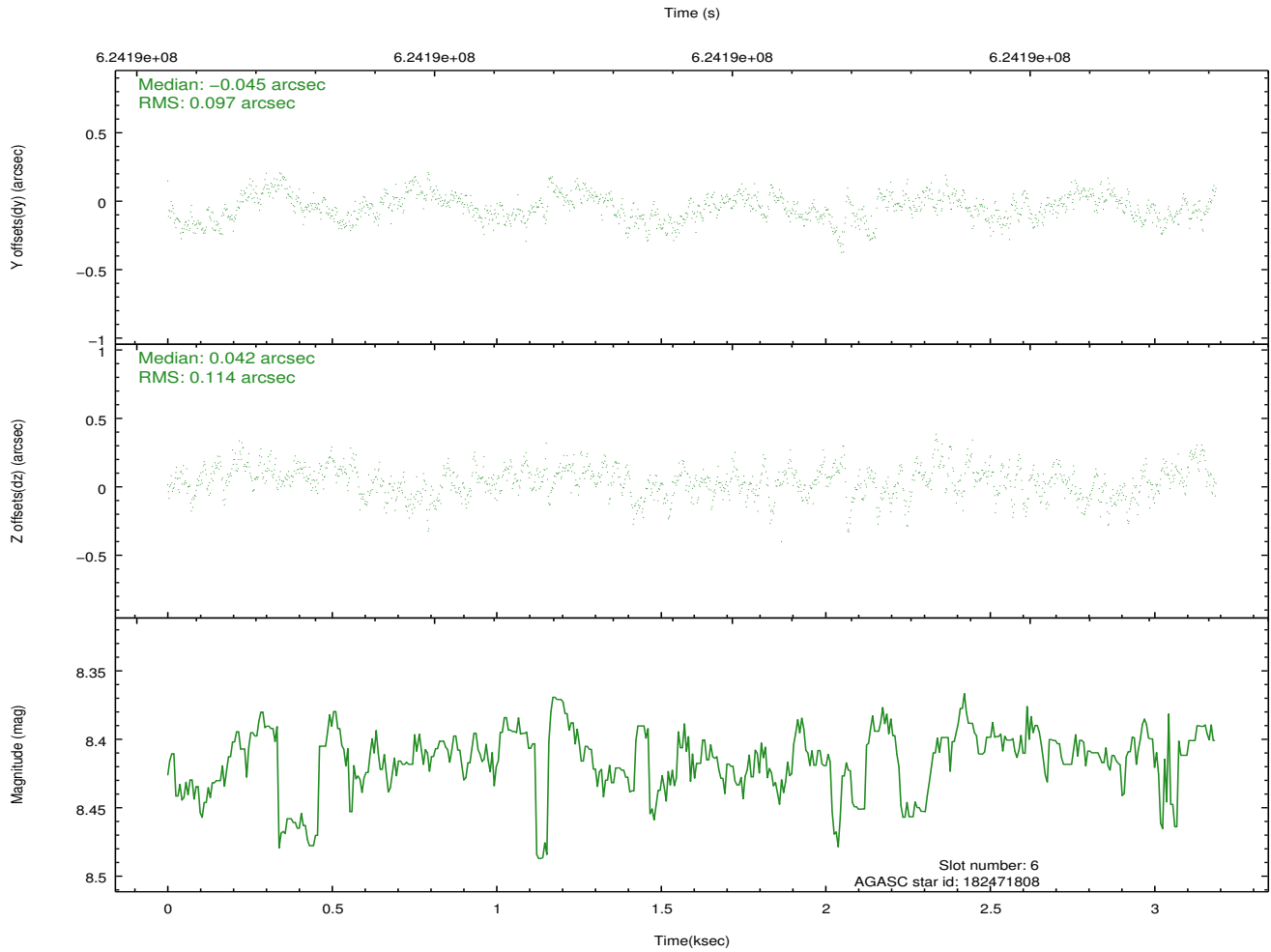
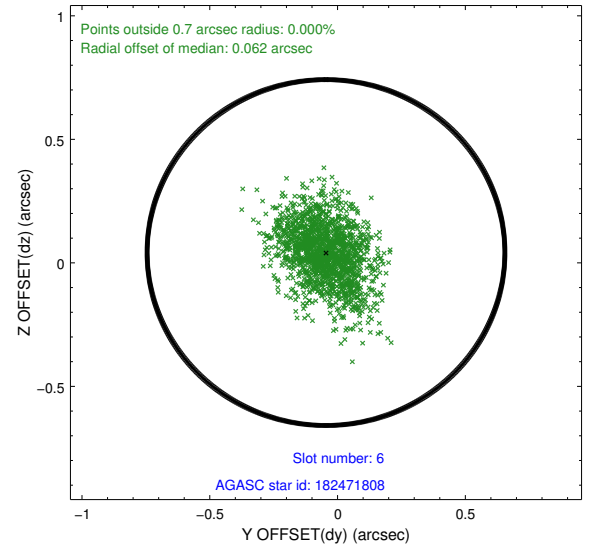
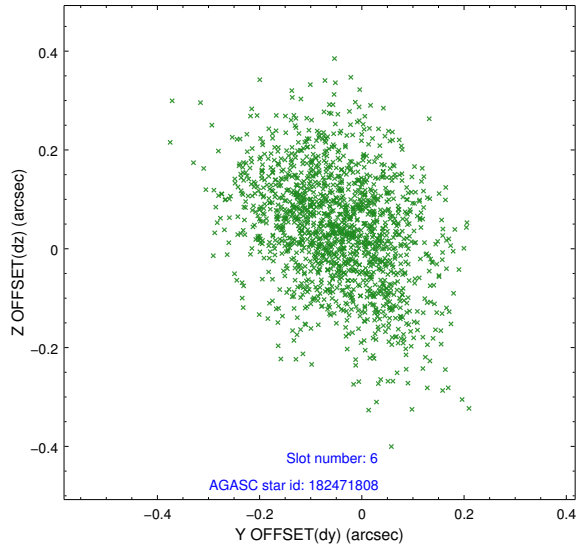
2.4.2 Slot 4



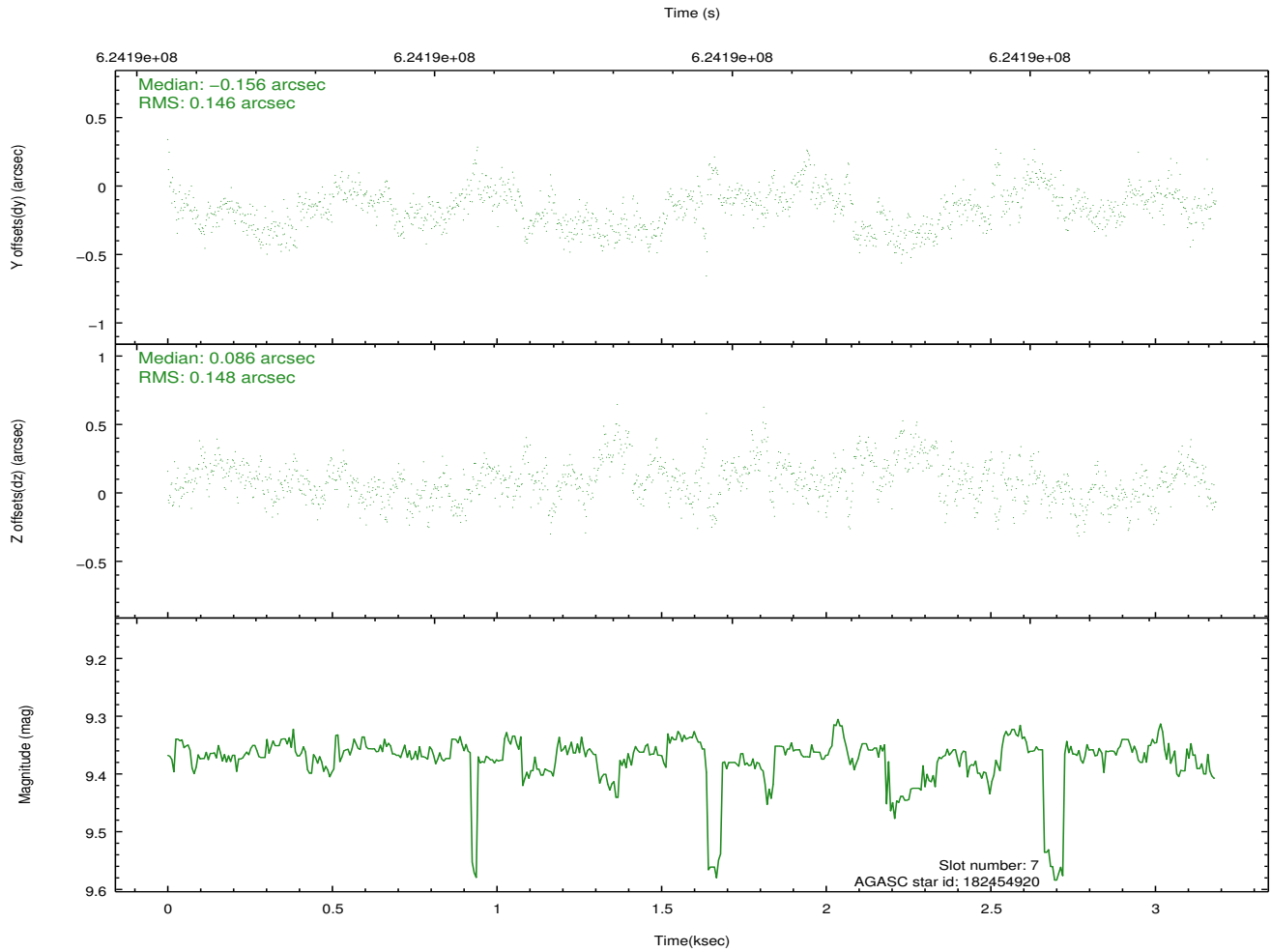
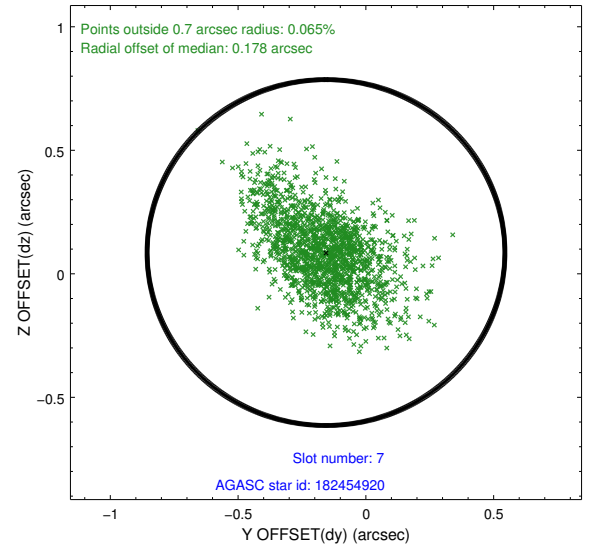
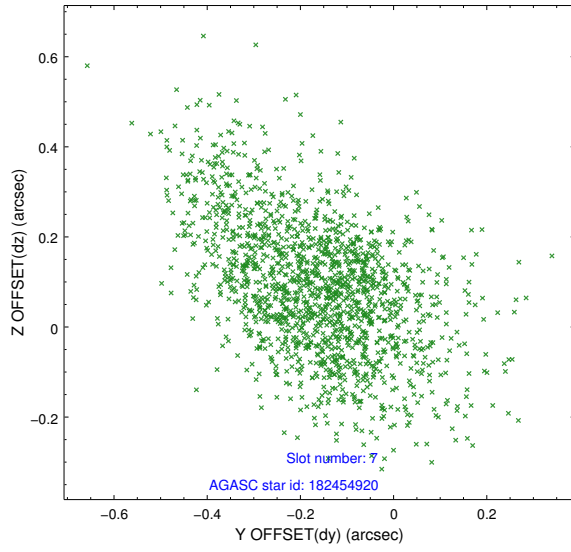
2.4.3 Slot 5



2.4.4 Slot 6

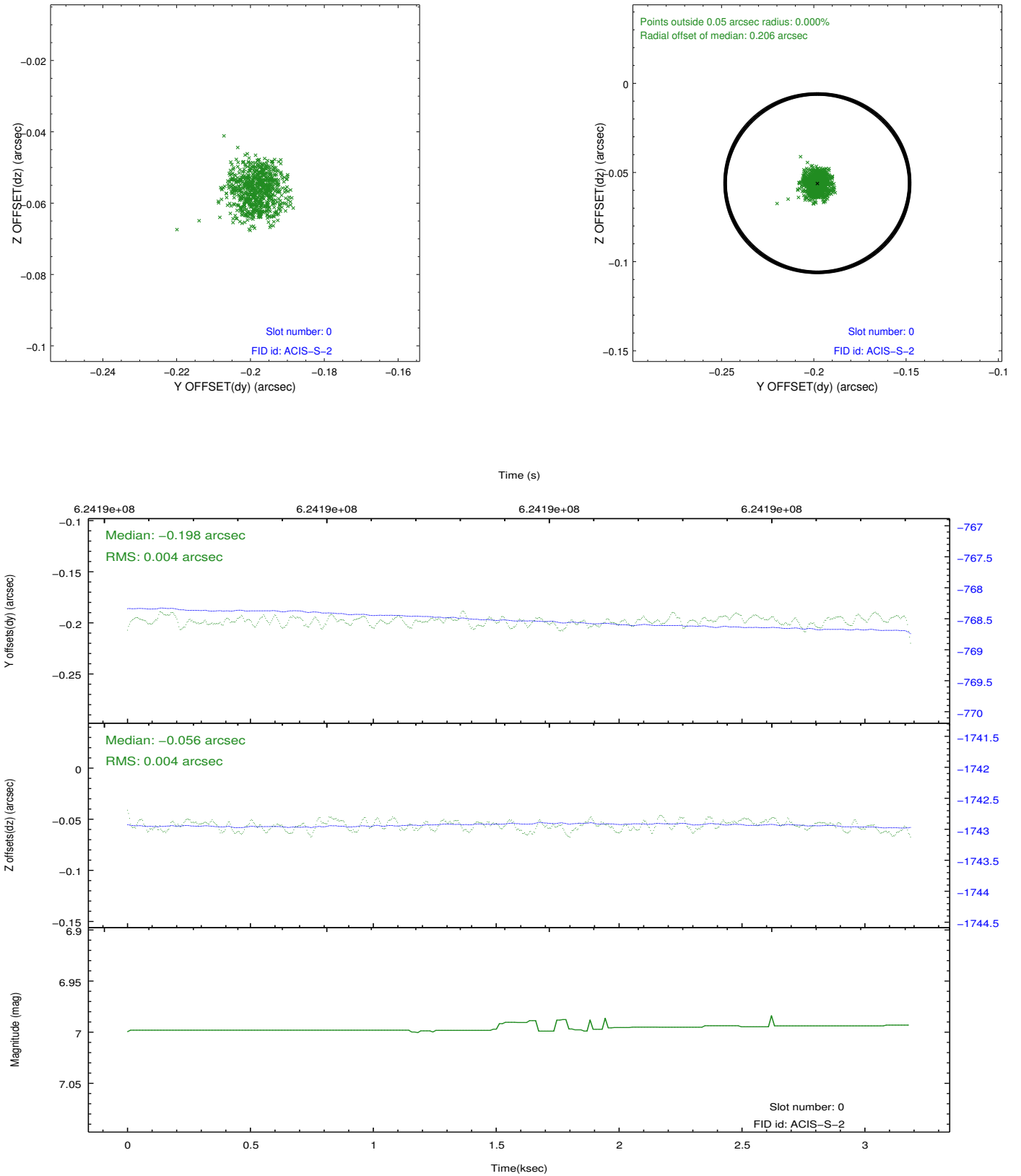


2.4.5 Slot 7

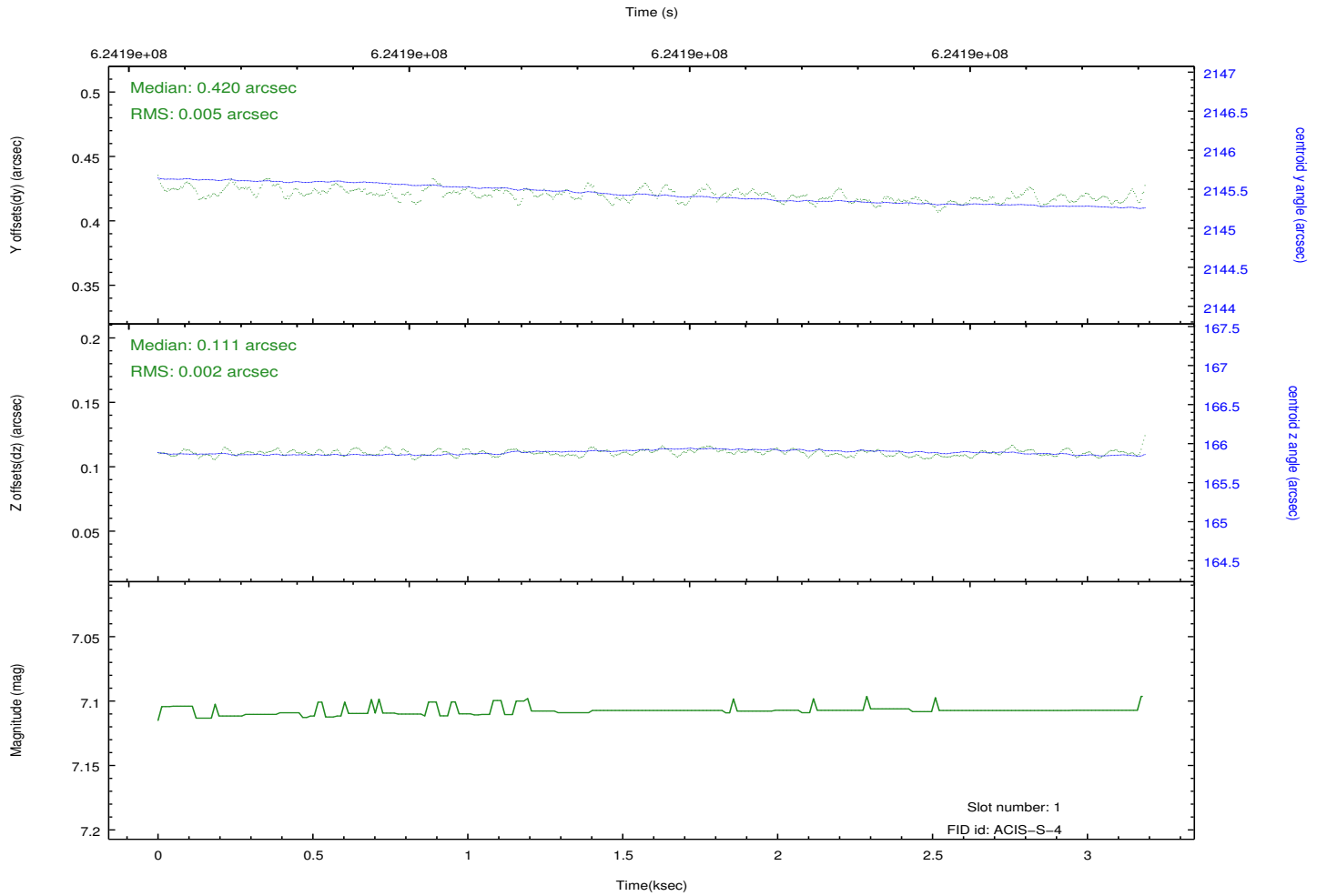
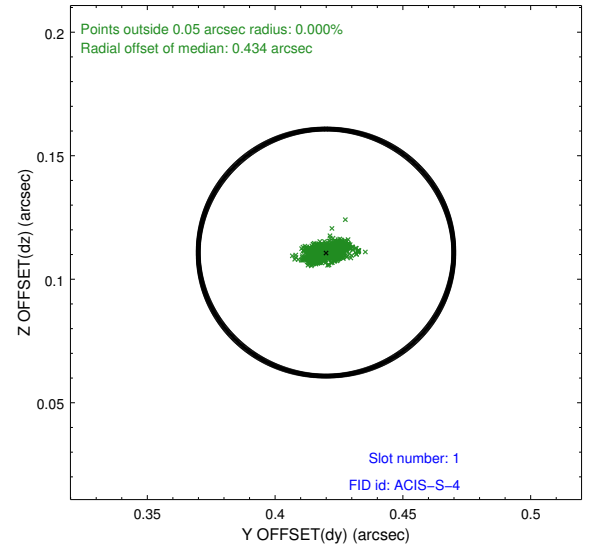
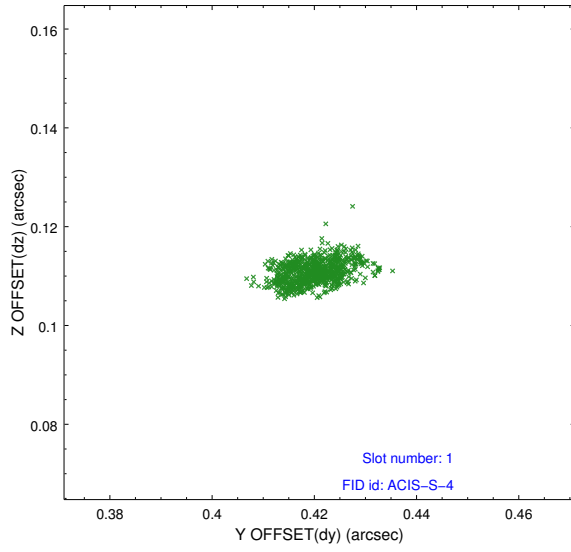


2.5 FID Slots

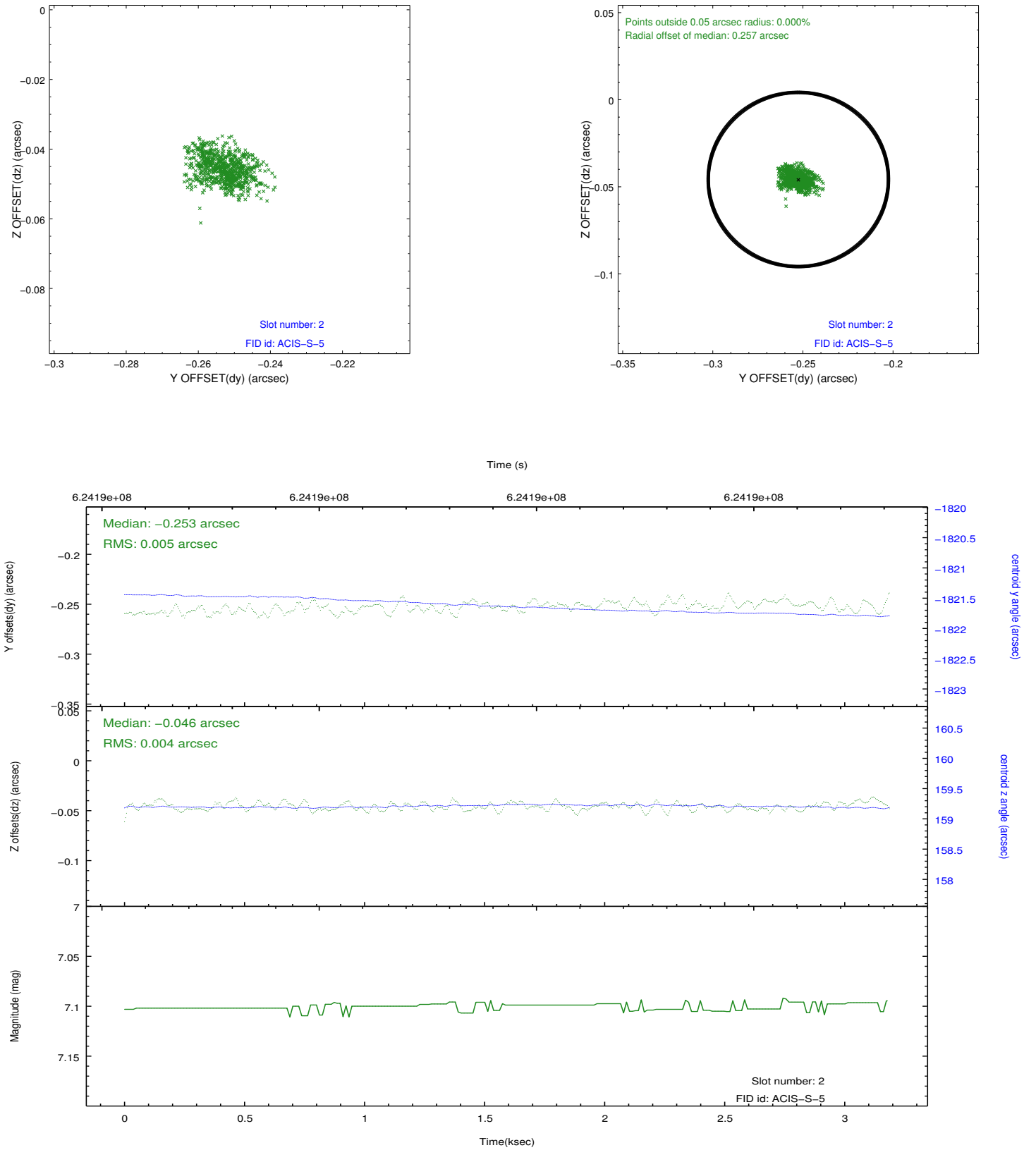
2.5.1 Slot 0



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)	2017.10.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.071

A.2 Comments