

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19517 - L2 Version 1
Chandra X-Ray Center

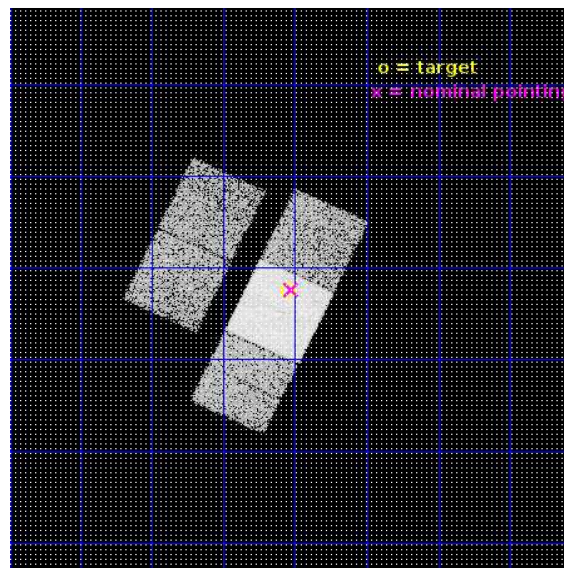
L2 Processing Date : Jul 24 2017

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

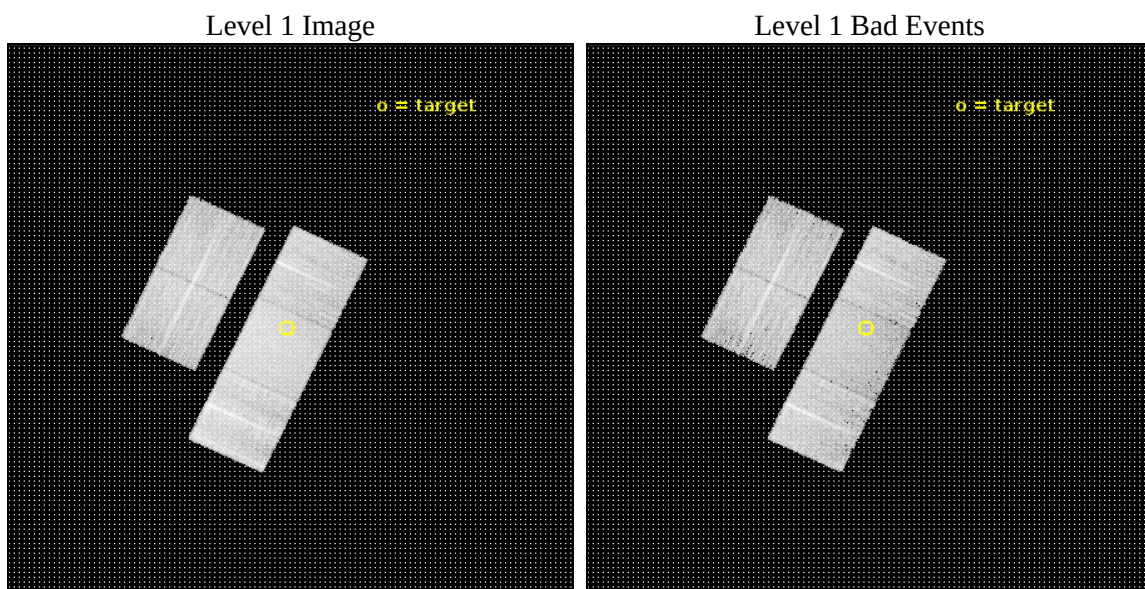
seq_num	703365	Sequence number
obs_id	19517	Observation id
title	Understanding AGN Accretion State Transitions via a Sample of Confirmed Changing-Look Quasars	Proposal title
observer	John Ruan	Principal investigator
object	SDSS J233602.98+001728.7	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	354.0125	Observer's specified target RA [deg]
dec_targ	0.291306	Observer's specified target Dec [deg]
ra_nom	354.00646483922	Nominal RA [deg]
dec_nom	0.29328362334988	Nominal Dec [deg]
roll_nom	115.37995281646	Nominal Roll [deg]
revision	1	Processing version of data
ontime	11062.475939751	Sum of GTIs [s]
livetime	10917.936547522	Livetime [s]
ontime2	11059.170789599	Sum of GTIs [s]
ontime3	11062.393859744	Sum of GTIs [s]
ontime6	11062.434899807	Sum of GTIs [s]
ontime7	11062.475939751	Sum of GTIs [s]
ontime8	11062.3528198	Sum of GTIs [s]
l2events	72883	Number of level 2 events



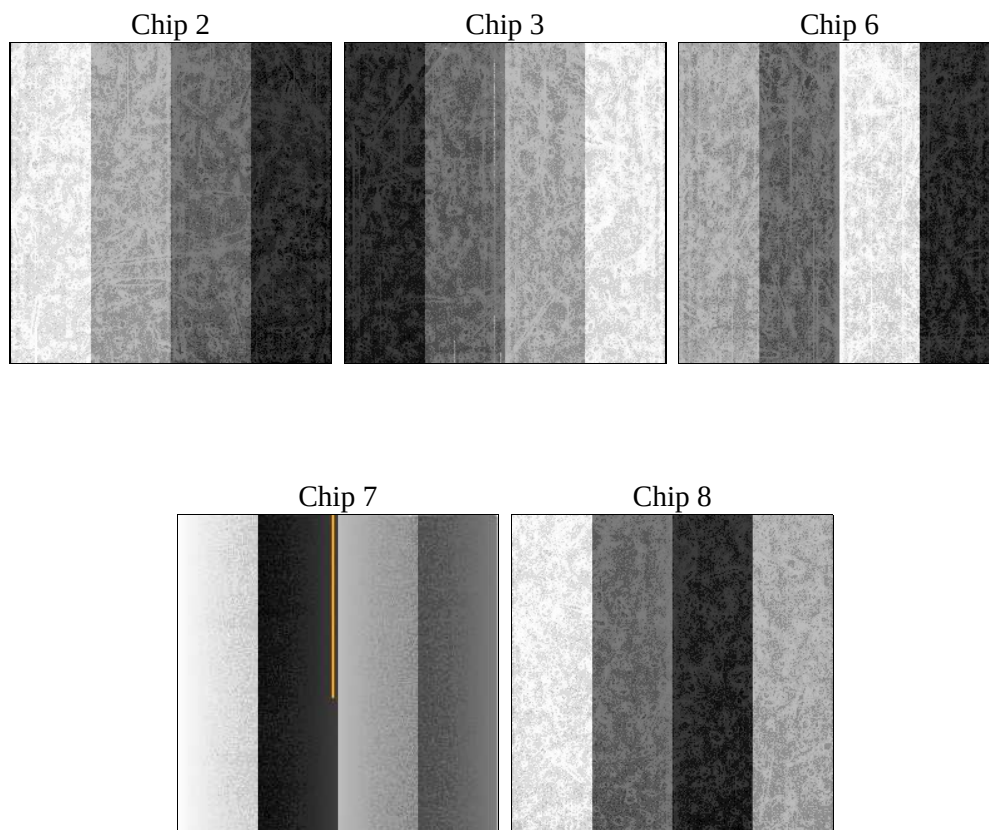
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	11000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	11062.475939751	Sum of GTIs [s]
caldbver	4.7.5	 	ontime2	11059.170789599	Sum of GTIs [s]
date	2017-07-24T13:55:21	Date and time of file creation	ontime3	11062.393859744	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	11062.434899807	Sum of GTIs [s]
			ontime7	11062.475939751	Sum of GTIs [s]
			ontime8	11062.3528198	Sum of GTIs [s]
			l1events	423671	Number of level 1 events

2.1.4 Events

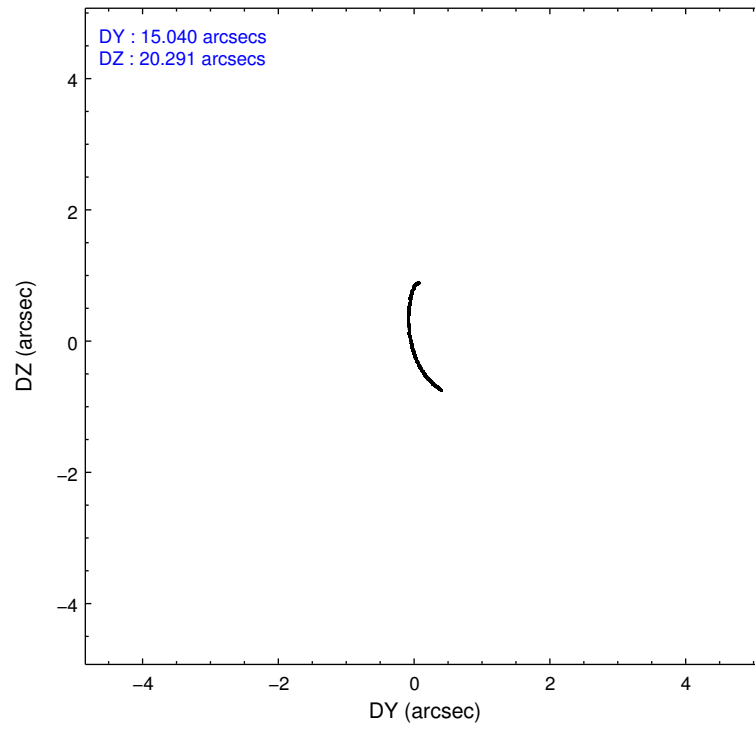
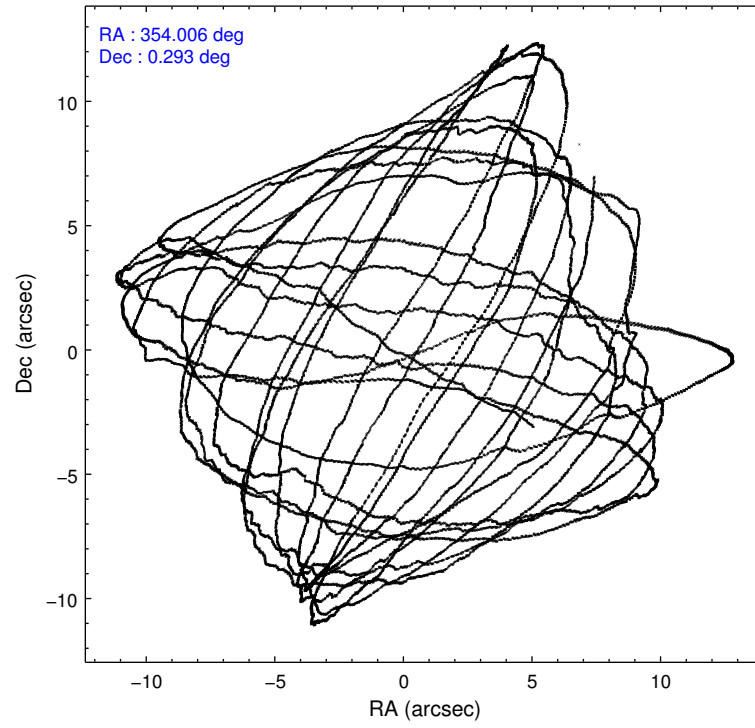
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	72262	73762	78493	97882	101272
rejected events	64013	65647	69588	55094	73535
rejected %	88%	88%	88%	56%	72%

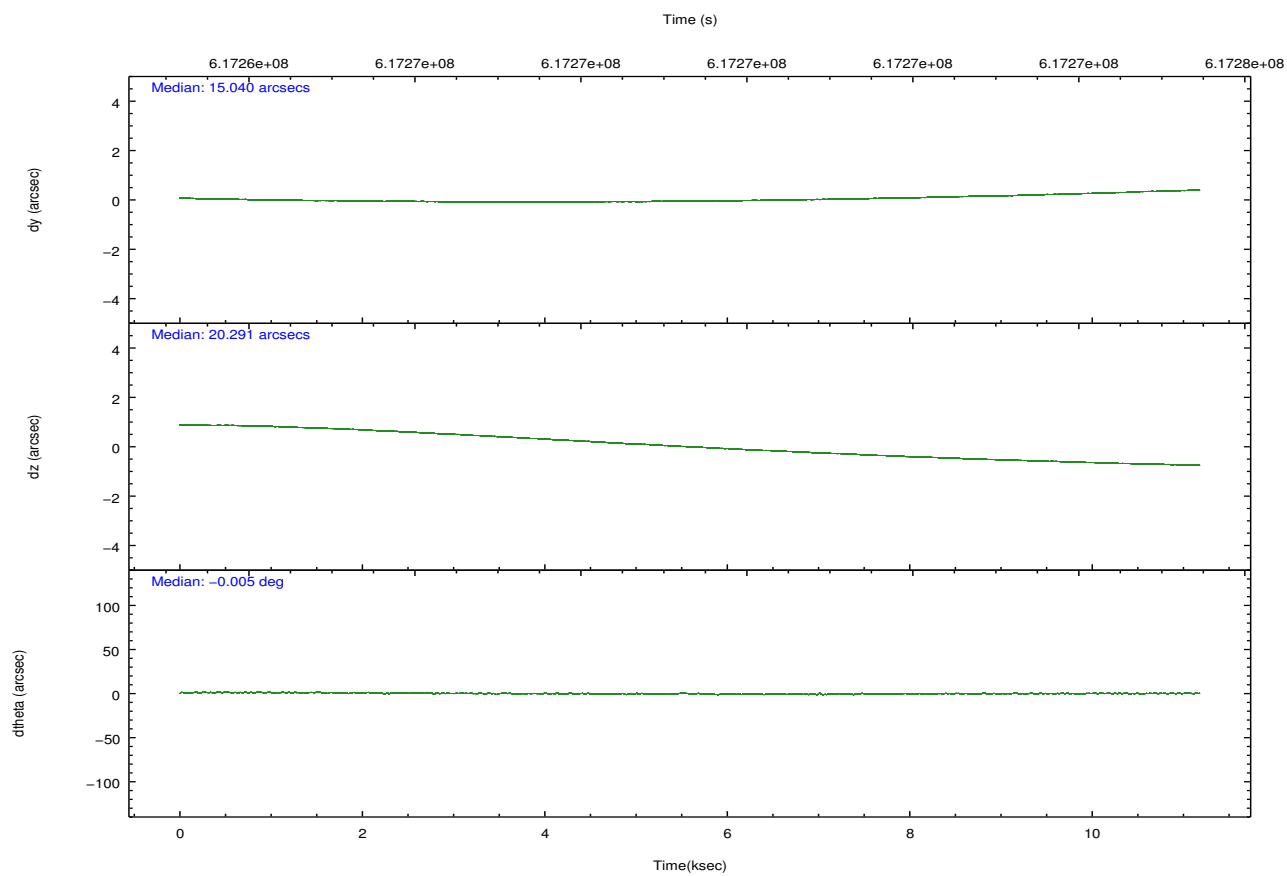
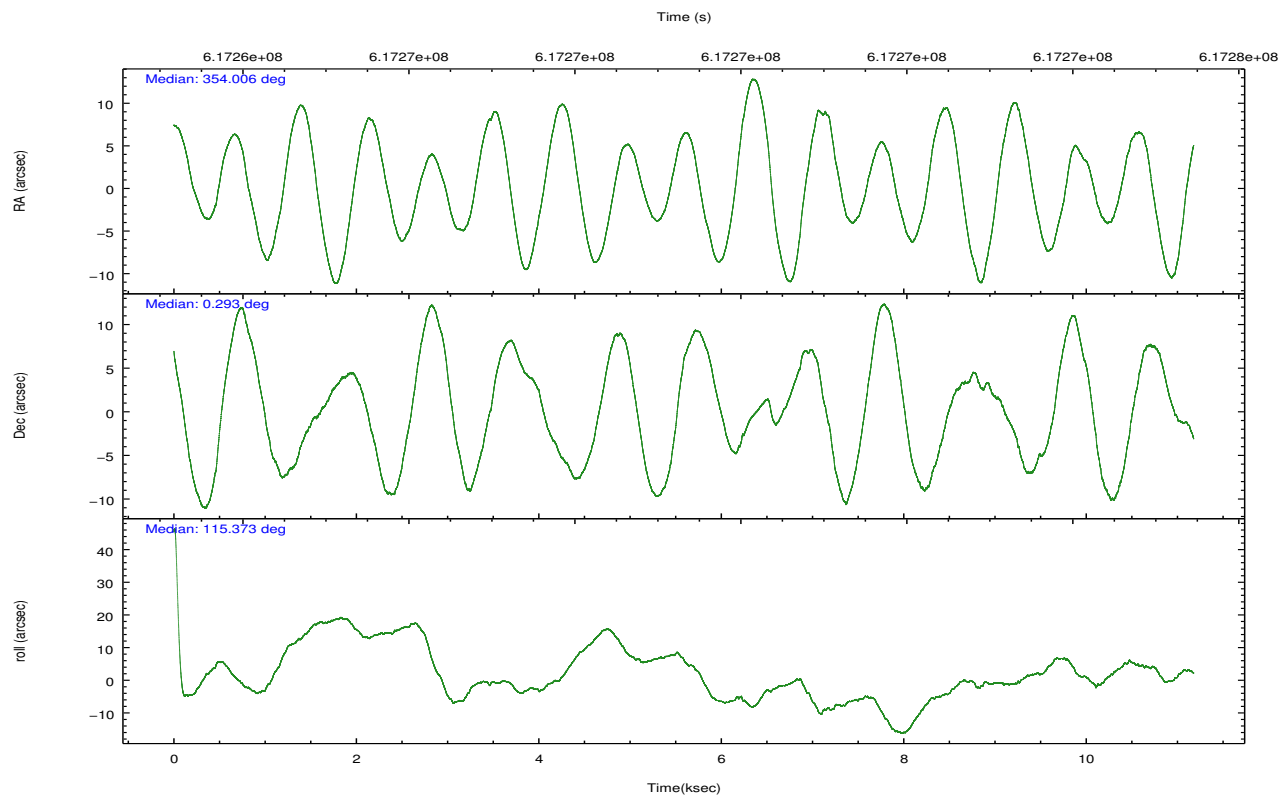
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	2836	2914	2940	3659	8231
	3%	3%	3%	3%	8%
grade 1 events	38	53	45	148	97
	0%	0%	0%	0%	0%
grade 2 events	2148	1763	2120	9105	6755
	2%	2%	2%	9%	6%
grade 3 events	842	873	876	3508	3022
	1%	1%	1%	3%	2%
grade 4 events	801	856	892	3463	2729
	1%	1%	1%	3%	2%
grade 5 events	3077	3643	3751	9910	5449
	4%	4%	4%	10%	5%
grade 6 events	1627	1710	2080	23071	7011
	2%	2%	2%	23%	6%
grade 7 events	60893	61950	65789	45018	67978
	84%	83%	83%	45%	67%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	354.029277	354.0064648392186	CCD I2 on	O1	Y
[deg] Pointing Dec	0.278011	0.2932836233498789	CCD I3 on	O2	Y
[deg] Pointing Roll	115.223216	115.3799528164646	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	617263912.184000	617262787.25094	CCD S5 on	N	N
Observation start date	2017-07-24T06:10:43	2017-07-24T05:53:07	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	617274912.184000	617276061.00172	On-chip summing requested	N	N
Observation end date	2017-07-24T09:14:03	2017-07-24T09:34:21	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



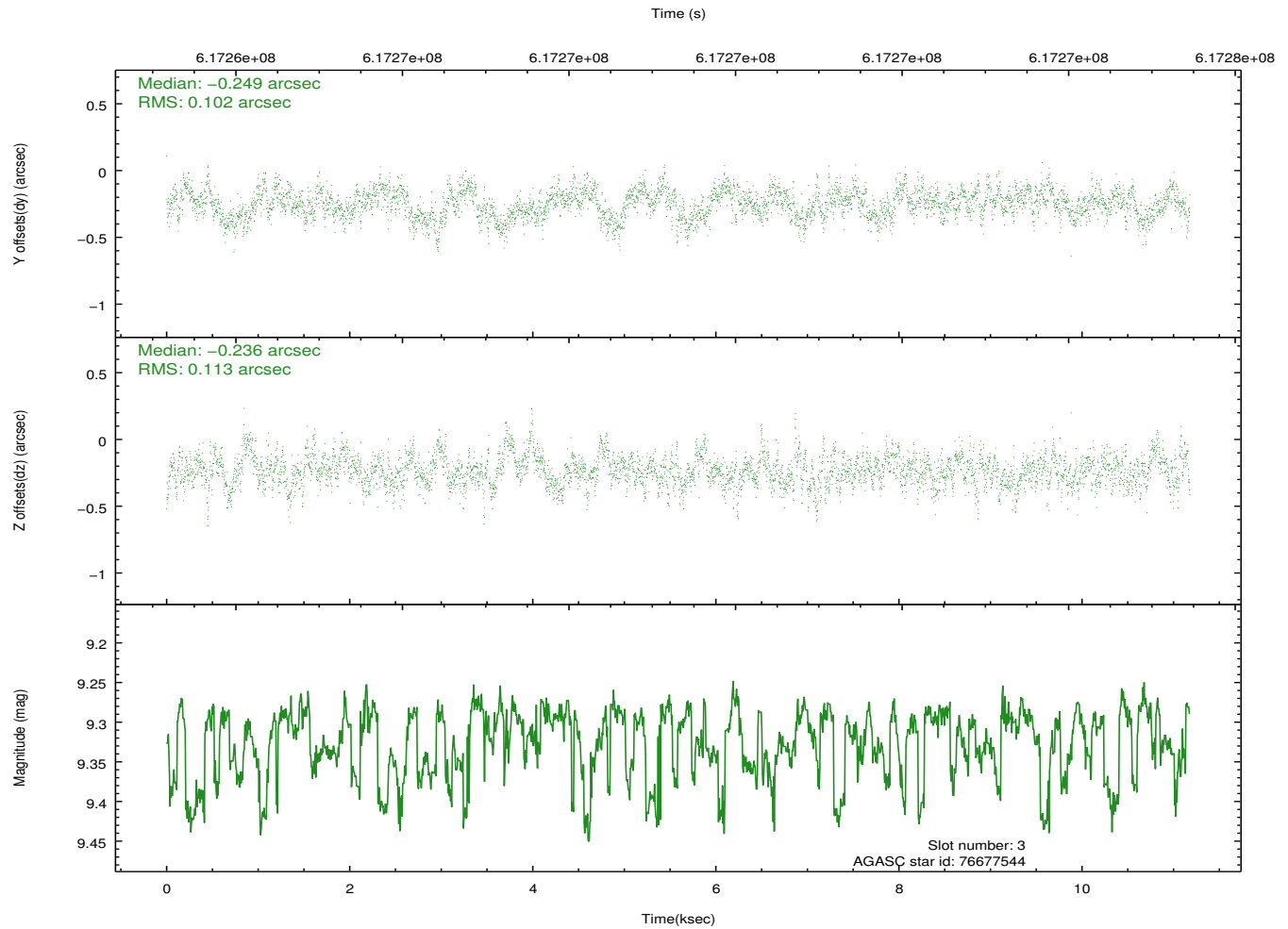
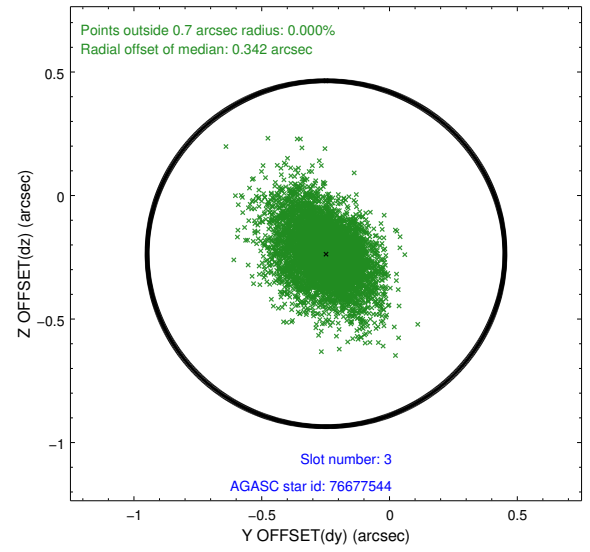
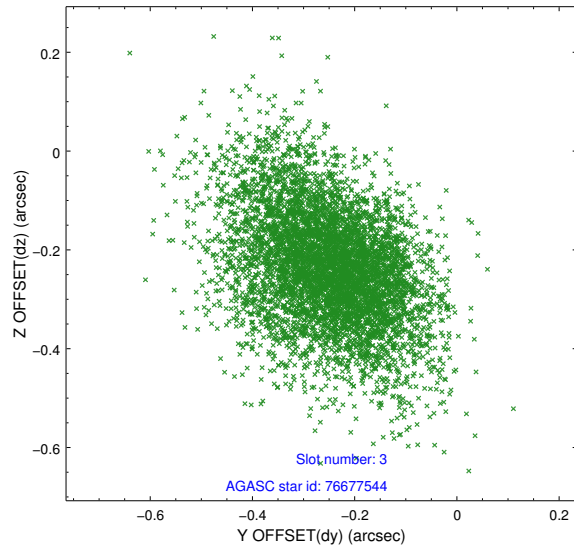


Slot Statistics

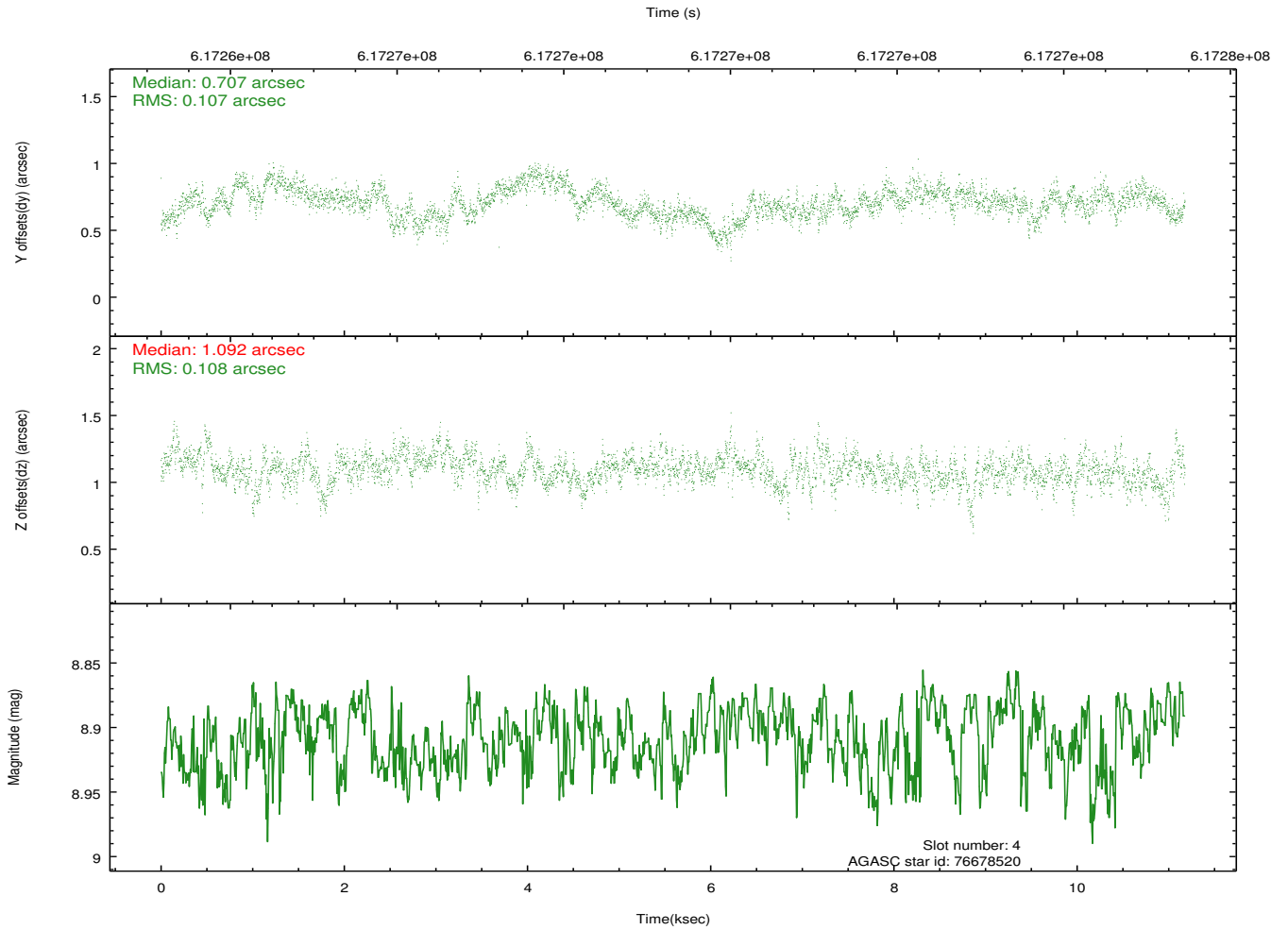
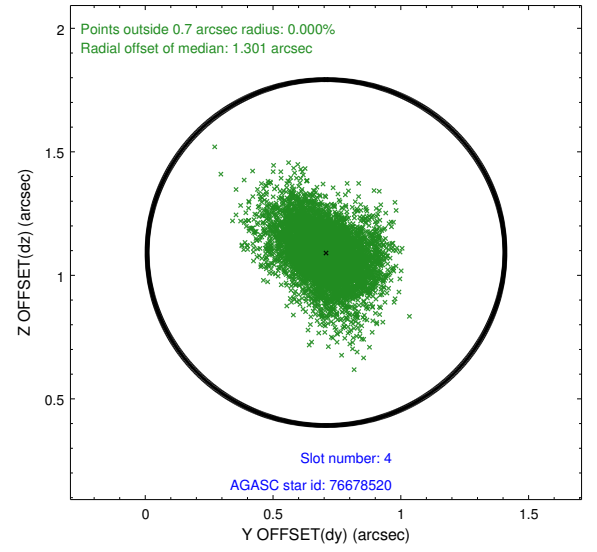
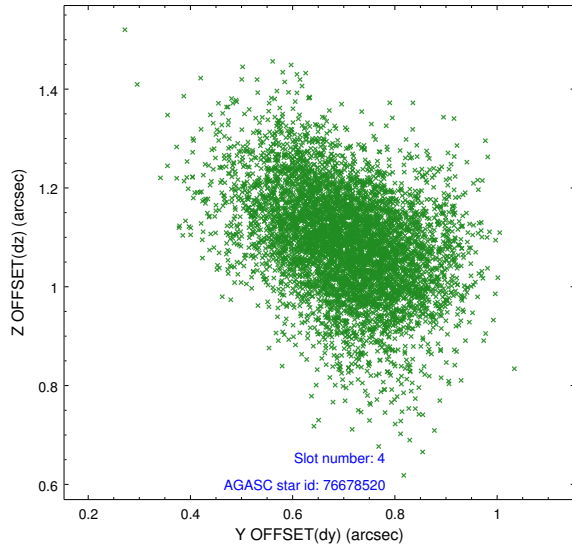
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.94	2727	-0.217	-0.054	0.011	0.023	0.000000	0.000000	-768.25	-1741.87
1	FID		ACIS-S-4	7.05	2727	0.468	0.119	0.010	0.015	0.000000	0.000000	2145.47	166.35
2	FID		ACIS-S-5	7.05	2727	-0.282	-0.057	0.012	0.020	0.000000	0.000000	-1820.60	160.31
3	GUIDE	used	76677544	9.32	5449	-0.249	-0.236	0.158	0.275	353.780973	0.190917	97.17	941.92
4	GUIDE	used	76678520	8.91	5453	0.707	1.092	0.159	0.269	354.768103	0.123630	-1635.02	-2168.46
5	GUIDE	used	76683080	9.79	5433	-0.711	-0.488	0.250	0.417	353.475595	0.556305	1754.91	1375.36
6	GUIDE	used	688259800	9.71	5443	0.103	-0.047	0.241	0.418	353.657846	-0.137055	-782.83	1846.68
7	GUIDE	used	688265920	8.08	5451	0.122	-0.303	0.150	0.243	353.620473	-0.325855	-1340.12	2257.57

2.4 Star Slots

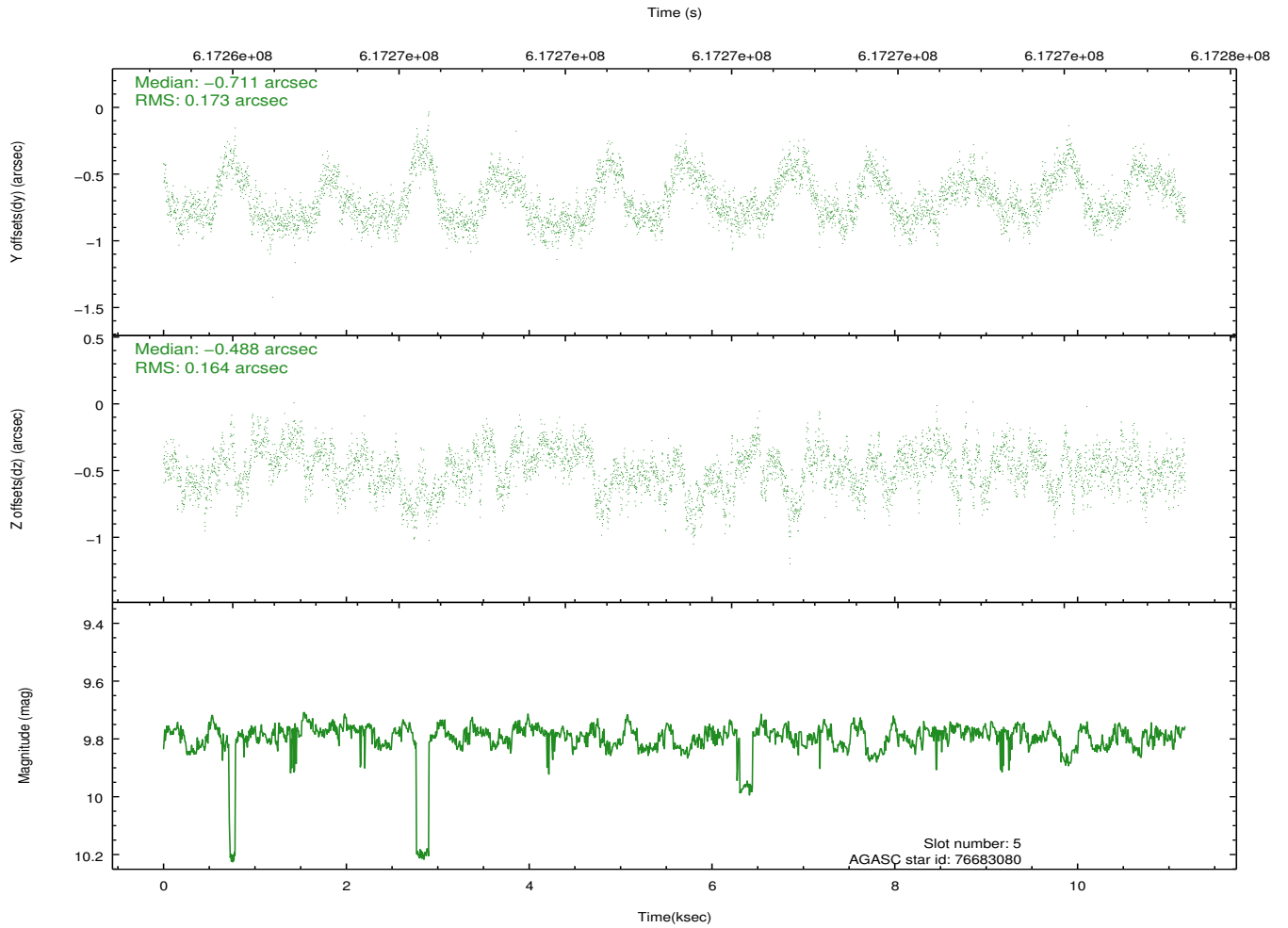
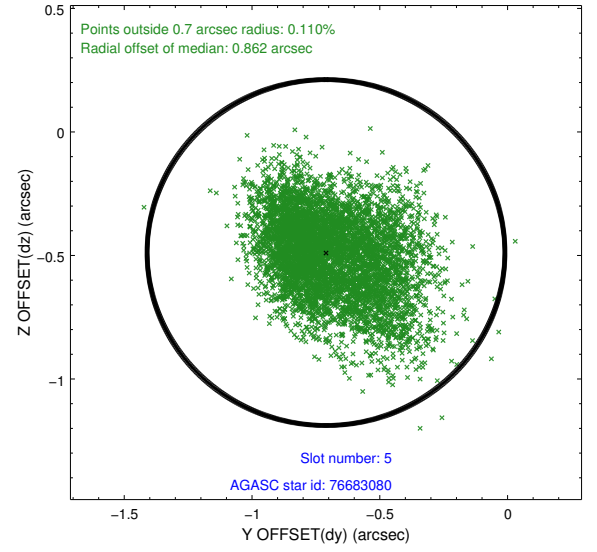
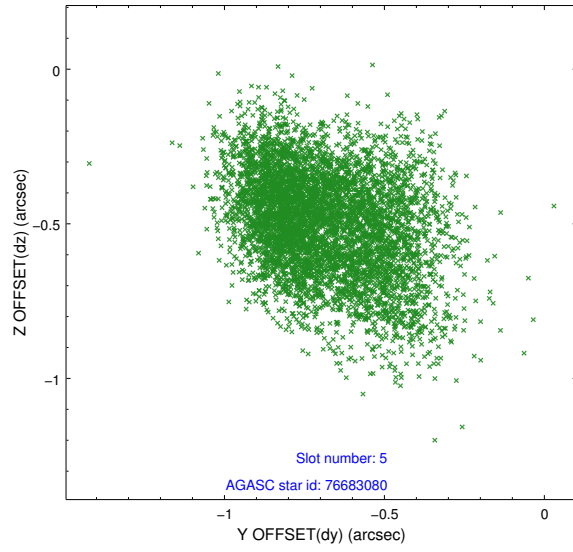
2.4.1 Slot 3



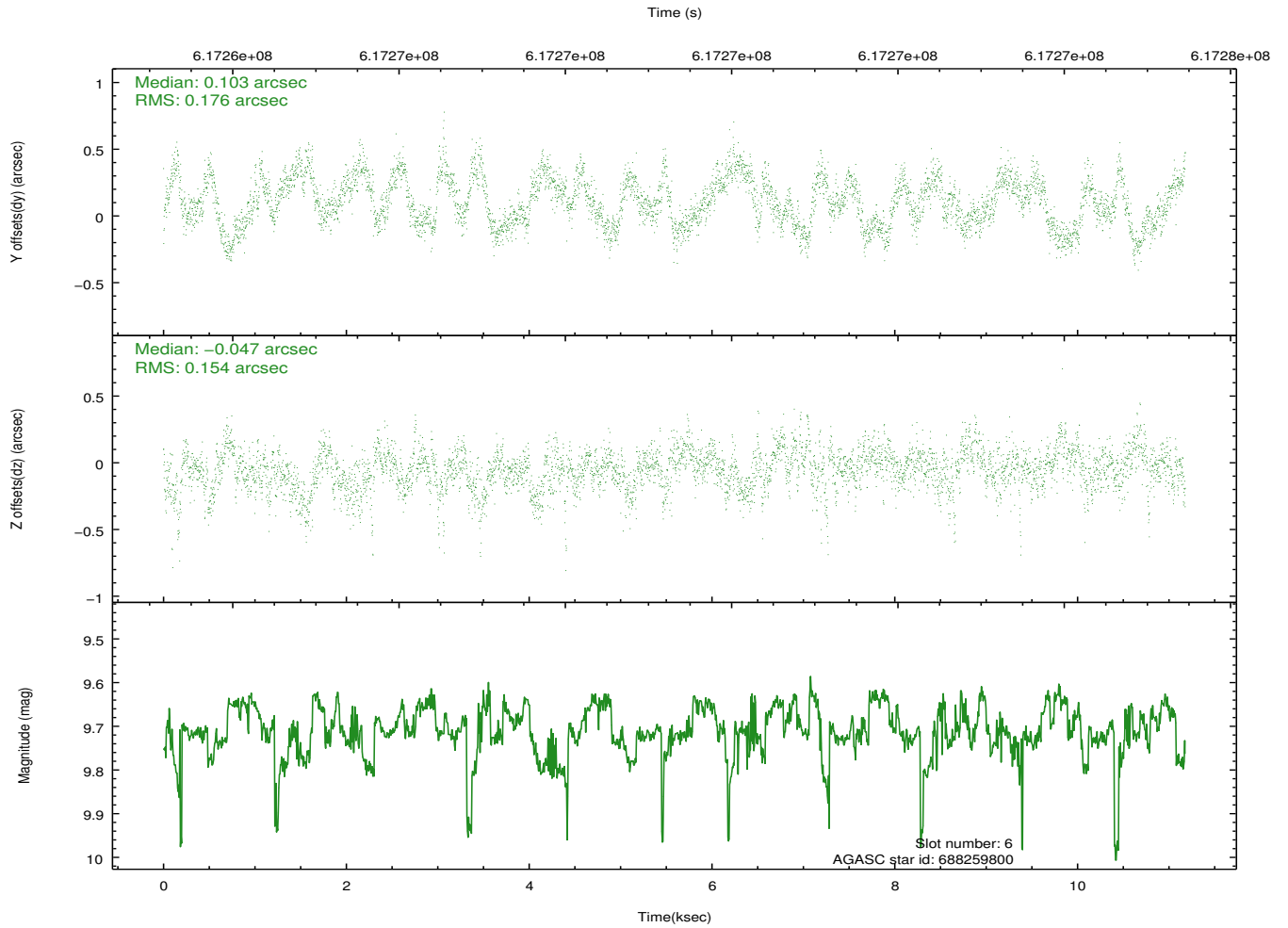
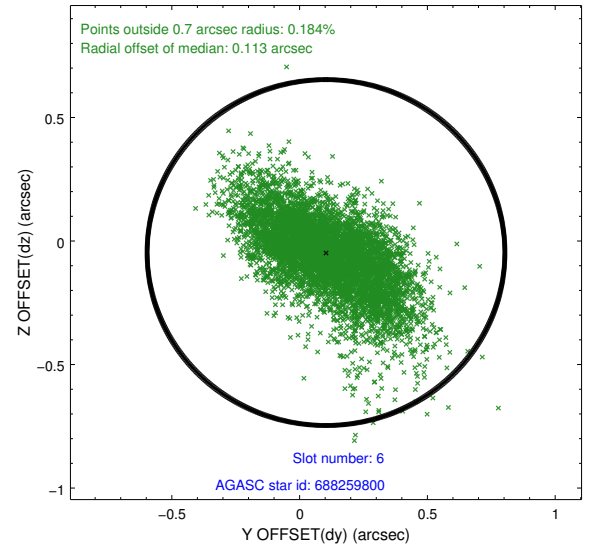
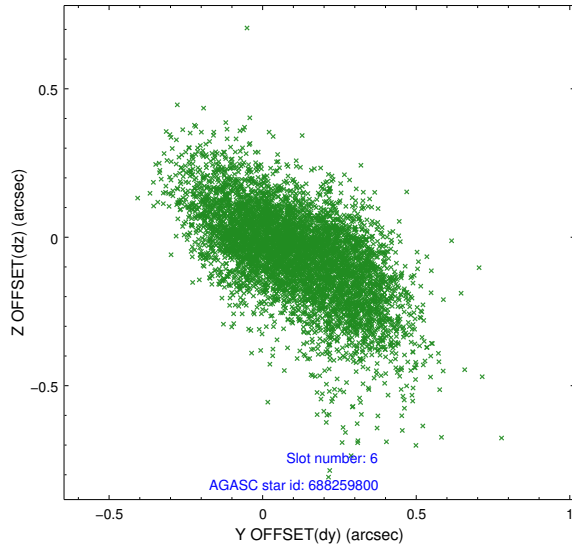
2.4.2 Slot 4



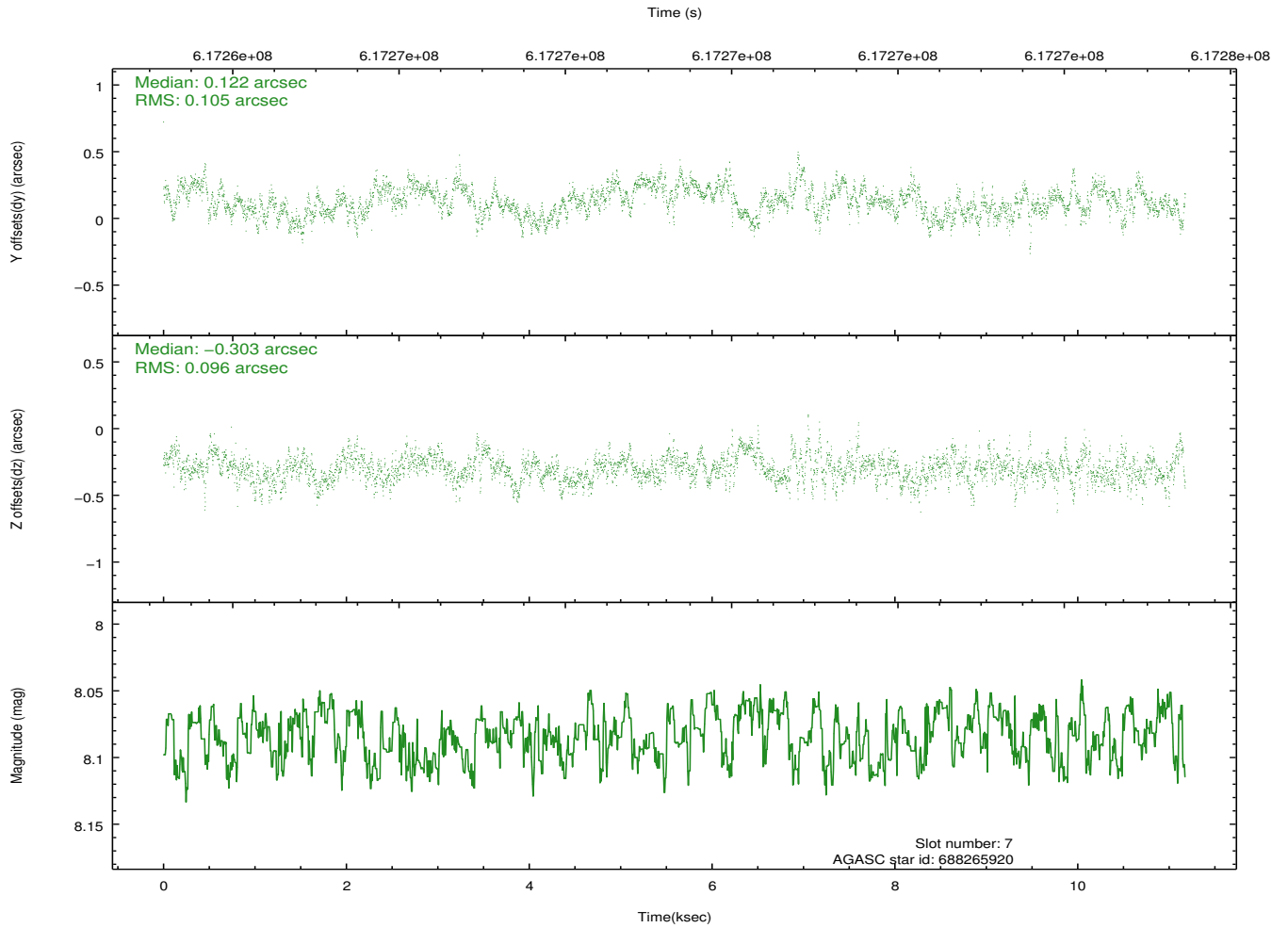
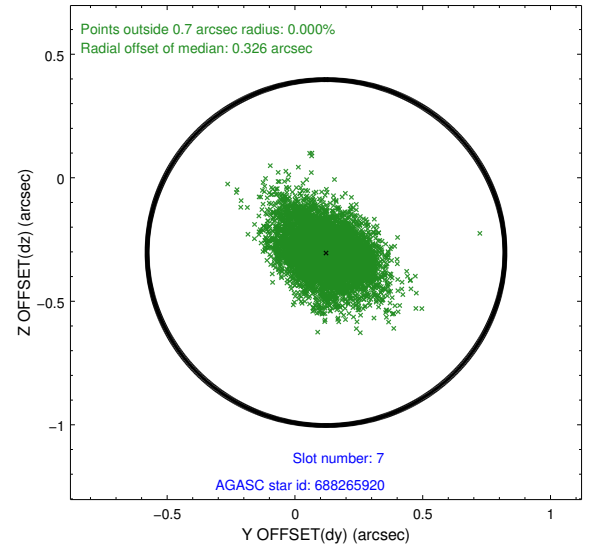
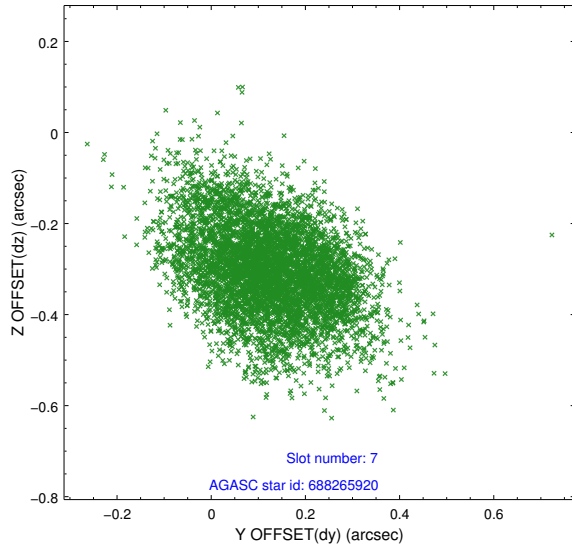
2.4.3 Slot 5



2.4.4 Slot 6

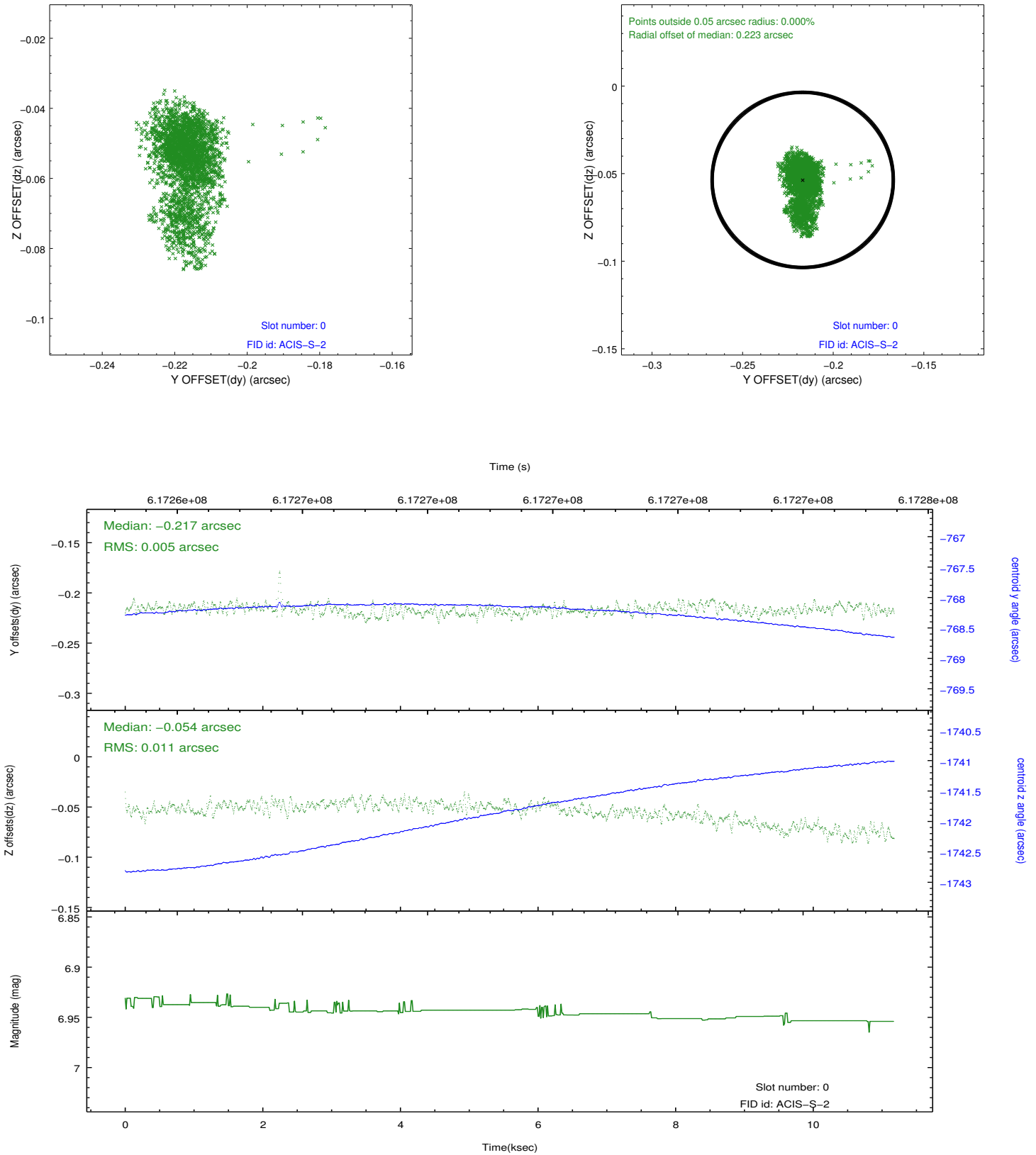


2.4.5 Slot 7

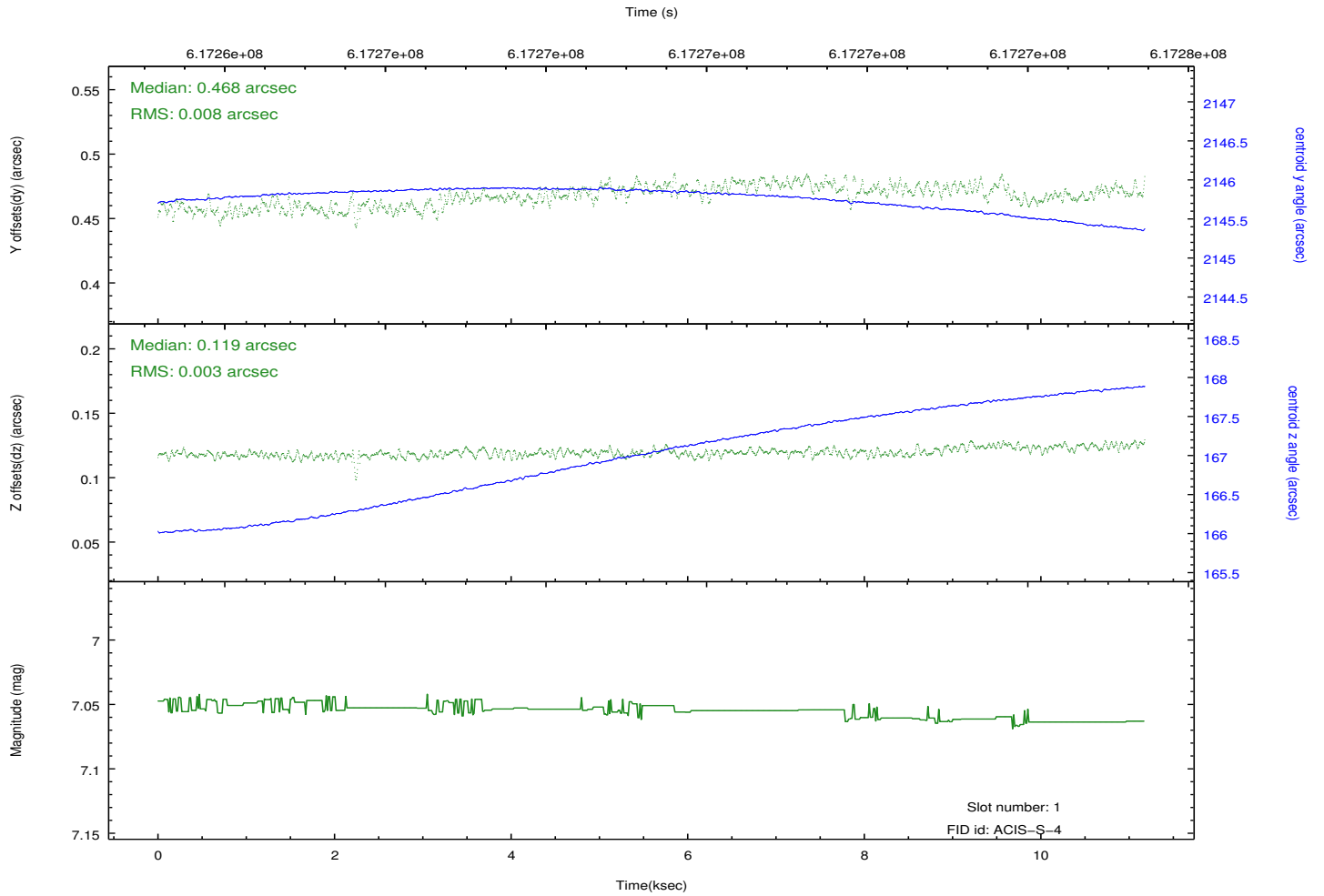
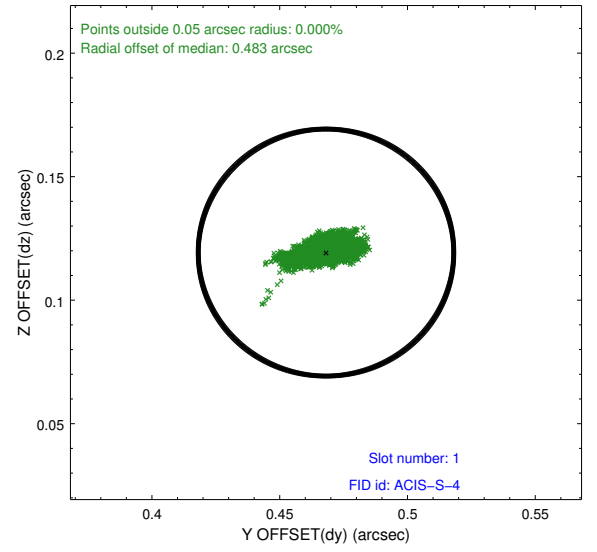
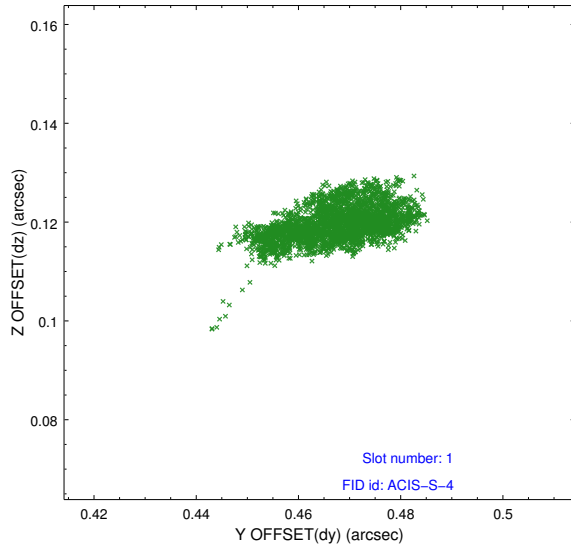


2.5 FID Slots

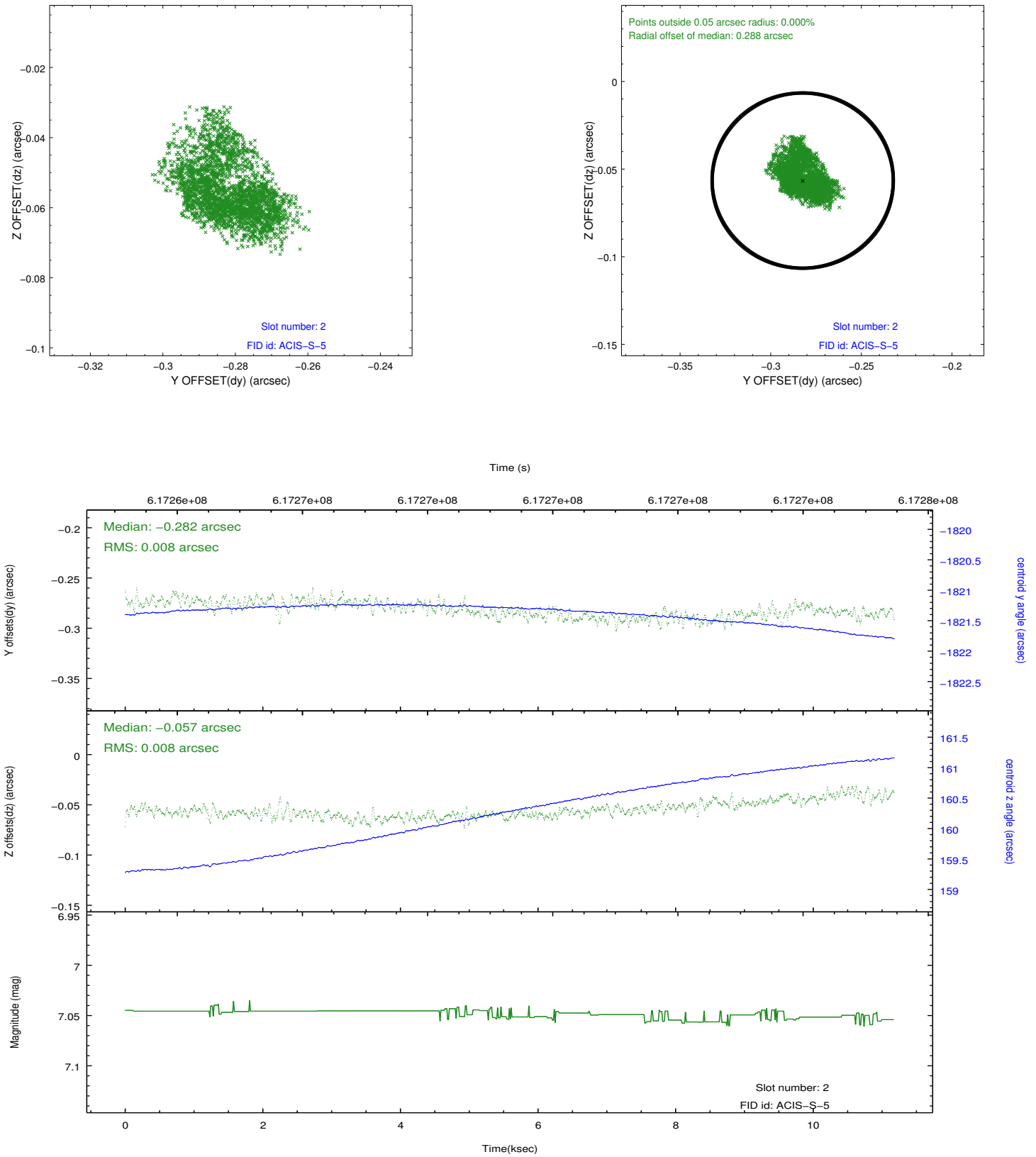
2.5.1 Slot 0



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)	2017.07.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	11.062475939751

A.2 Comments