

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 20829 - L2 Version 1
Chandra X-Ray Center

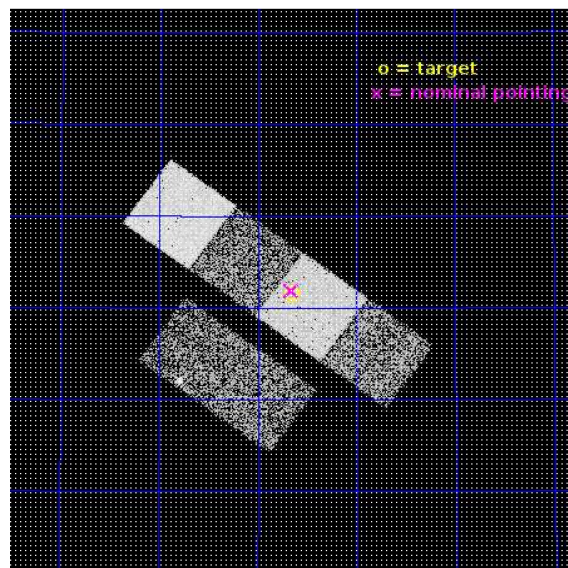
L2 Processing Date : Oct 28 2017

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

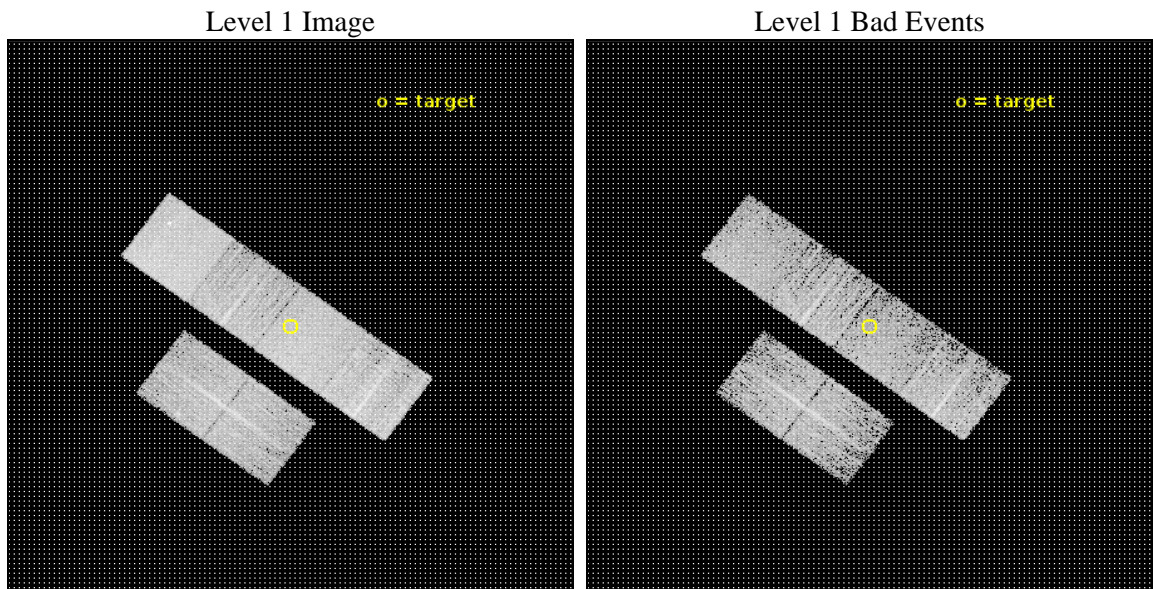
seq_num	703337	Sequence number
obs_id	20829	Observation id
title	UNDERSTANDING THE ROLE OF AGN IN TRANSITIONING GALAXI	Proposal tit
observer	Lauranne Lanz	Principal investigator
object	spog1557	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	174.91375	Observer's specified target RA [deg]
dec_targ	46.525611	Observer's specified target Dec [deg]
ra_nom	174.91480031503	Nominal RA [deg]
dec_nom	46.531559707265	Nominal Dec [deg]
roll_nom	36.155785231495	Nominal Roll [deg]
revision	1	Processing version of data
ontime	4956.8000738621	Sum of GTIs [s]
livetime	4894.0340867002	Livetime [s]
ontime2	4953.5591034889	Sum of GTIs [s]
ontime3	4956.8000738621	Sum of GTIs [s]
ontime5	4956.8000738621	Sum of GTIs [s]
ontime6	4956.8000738621	Sum of GTIs [s]
ontime7	4956.8000738621	Sum of GTIs [s]
ontime8	4956.8000738621	Sum of GTIs [s]
l2events	56190	Number of level 2 events



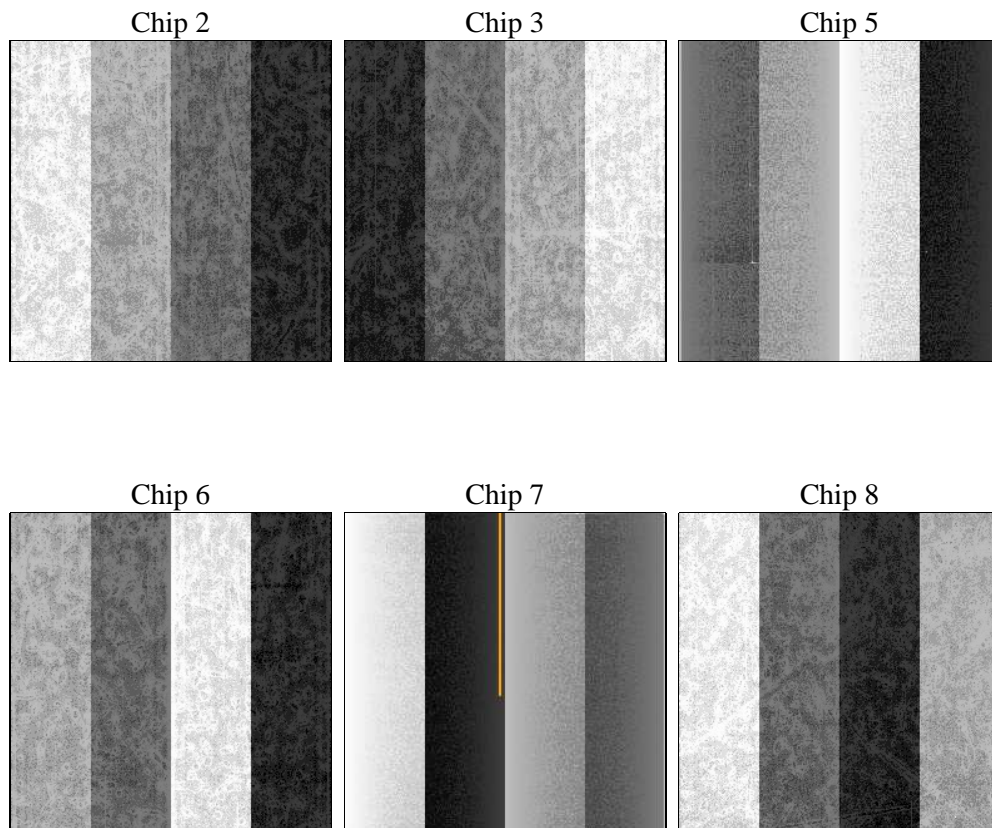
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	4956.8000738621	Sum of GTIs [s]
caldsver	4.7.6	 	ontime2	4953.5591034889	Sum of GTIs [s]
date	2017-10-28T04:27:31	Date and time of file creation	ontime3	4956.8000738621	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	4956.8000738621	Sum of GTIs [s]
			ontime6	4956.8000738621	Sum of GTIs [s]
			ontime7	4956.8000738621	Sum of GTIs [s]
			ontime8	4956.8000738621	Sum of GTIs [s]
			l1events	236539	Number of level 1 events

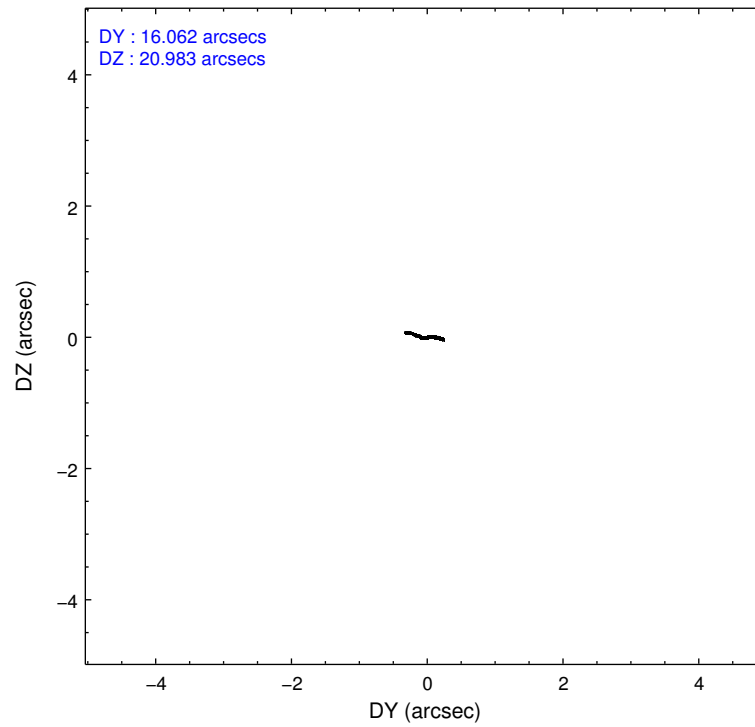
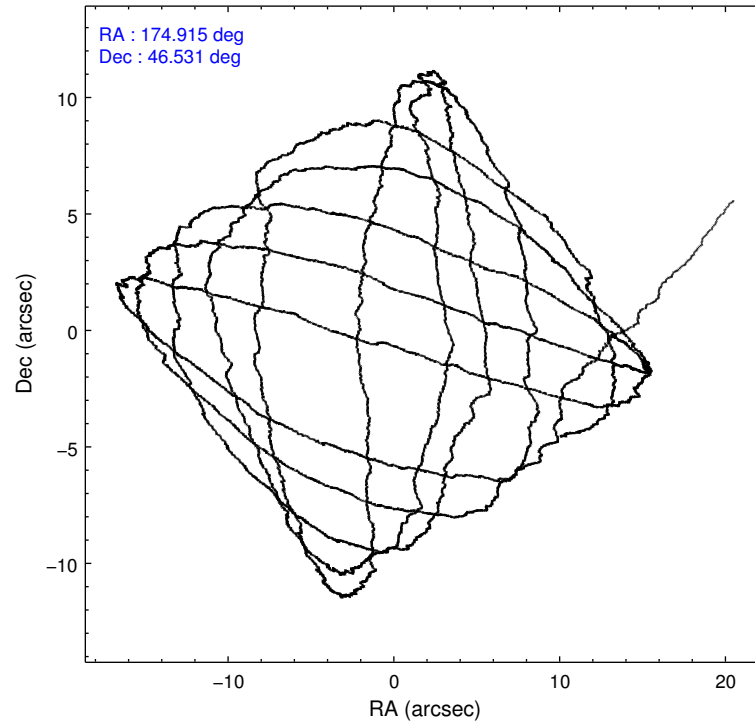
2.1.4 Events

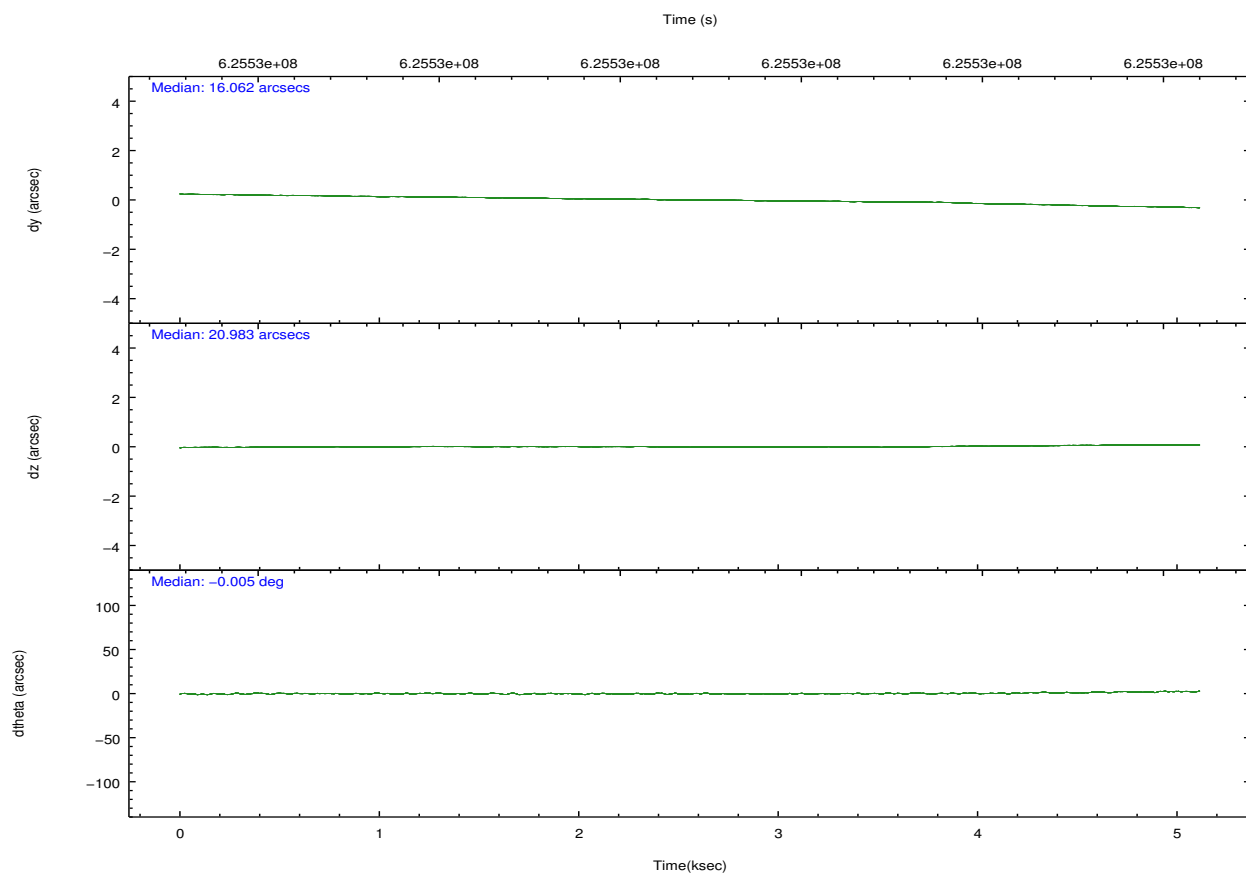
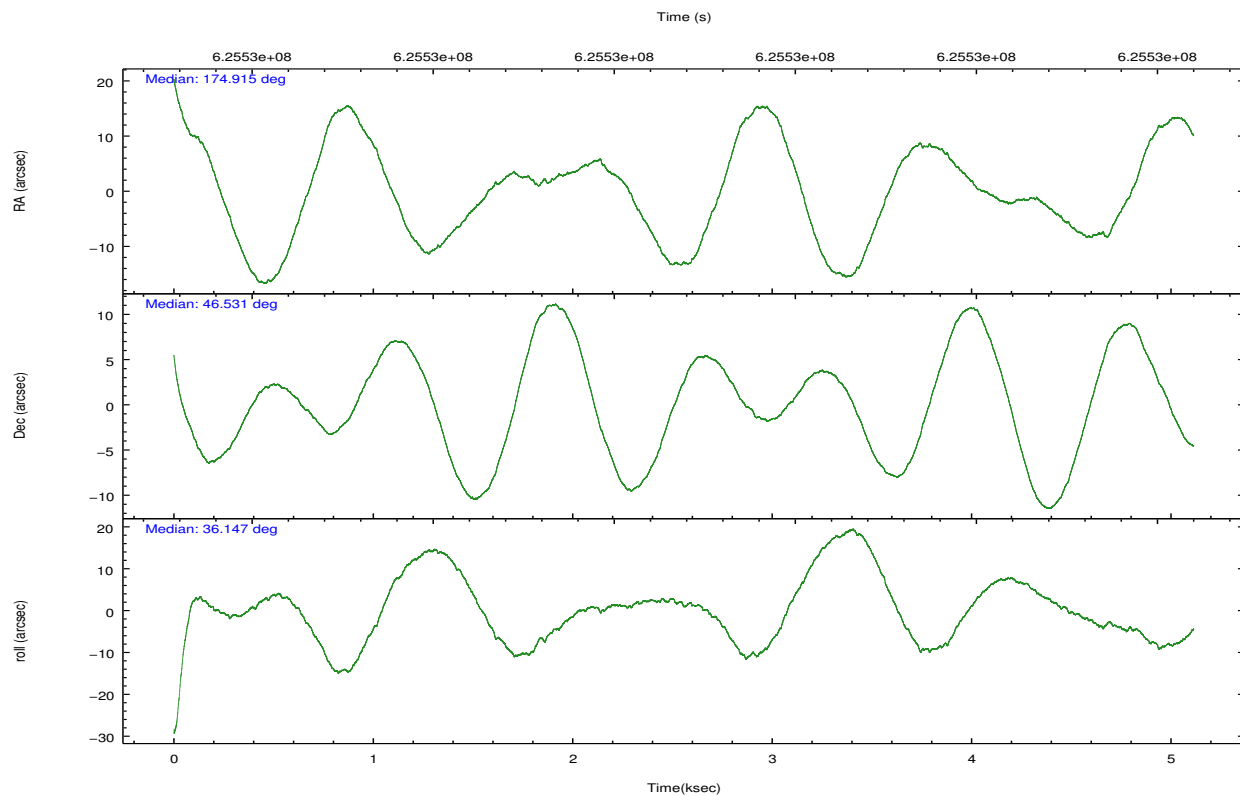
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	32689	30728	51895	34245	43031	43951	grade 0 events	1454	1284	1363	1250	1654	3723
rejected events	28965	27179	26920	30401	24203	31501		4%	4%	2%	3%	3%	8%
rejected %	88%	88%	51%	88%	56%	71%	grade 1 events	31	19	128	15	88	32
								0%	0%	0%	0%	0%	0%
							grade 2 events	863	788	7921	915	3986	2857
								2%	2%	15%	2%	9%	6%
							grade 3 events	336	379	985	384	1555	1374
								1%	1%	1%	1%	3%	3%
							grade 4 events	382	367	802	335	1542	1284
								1%	1%	1%	0%	3%	2%
							grade 5 events	1310	1562	3719	1631	4400	2355
								4%	5%	7%	4%	10%	5%
							grade 6 events	694	733	13930	961	10103	3217
								2%	2%	26%	2%	23%	7%
							grade 7 events	27619	25596	23047	28754	19703	29109
								84%	83%	44%	83%	45%	66%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	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	174.899061	174.9148003150286	CCD I2 on	O1	Y
[deg] Pointing Dec	46.506333	46.53155970726495	CCD I3 on	O2	Y
[deg] Pointing Roll	36.010652	36.15578523149452	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	625525913.184000	625524264.67163	CCD S5 on	N	N
Observation start date	2017-10-27T21:10:44	2017-10-27T20:44:24	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	625530913.184000	625531723.59707	On-chip summing requested	N	N
Observation end date	2017-10-27T22:34:04	2017-10-27T22:48:43	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



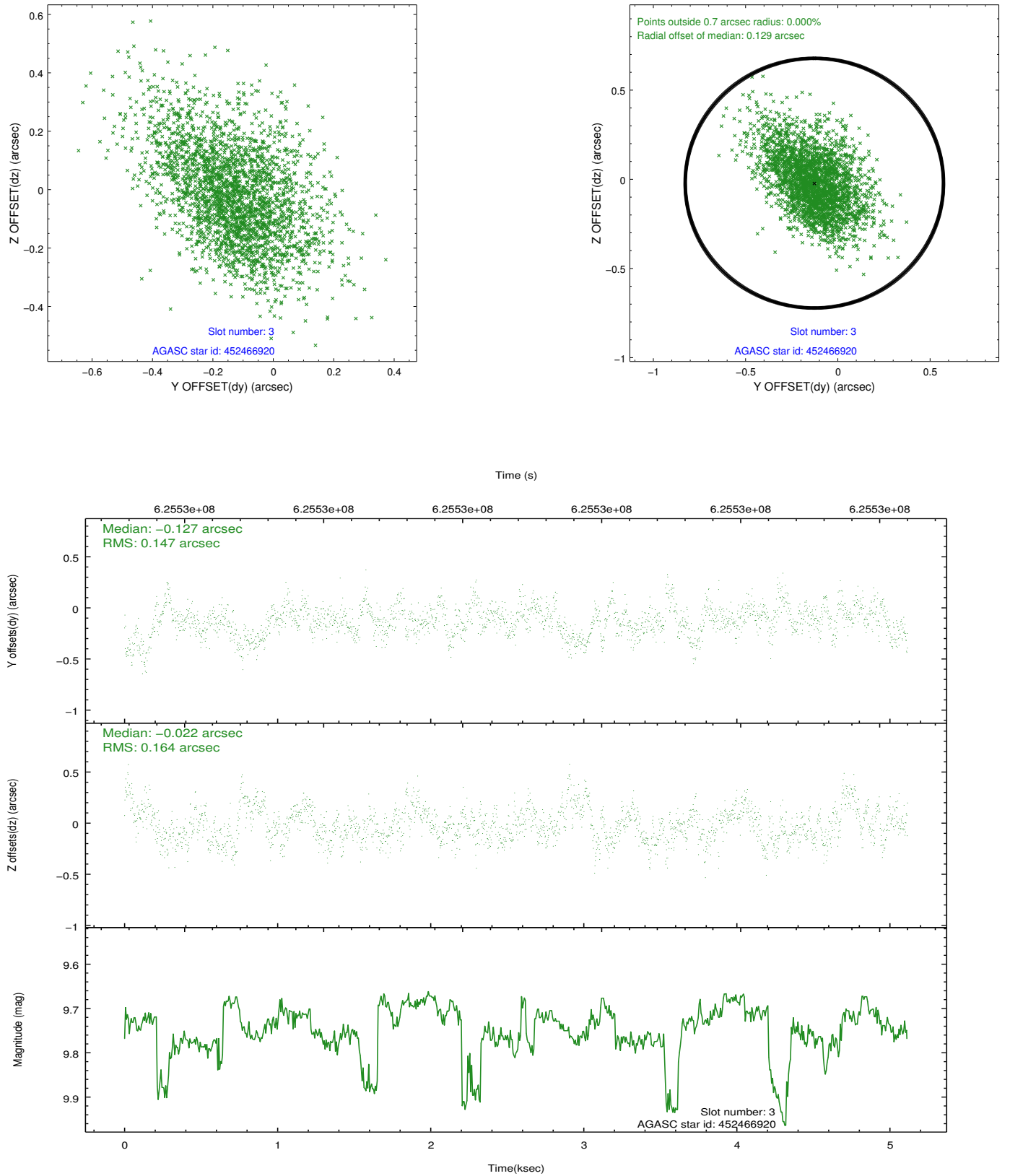


Slot Statistics

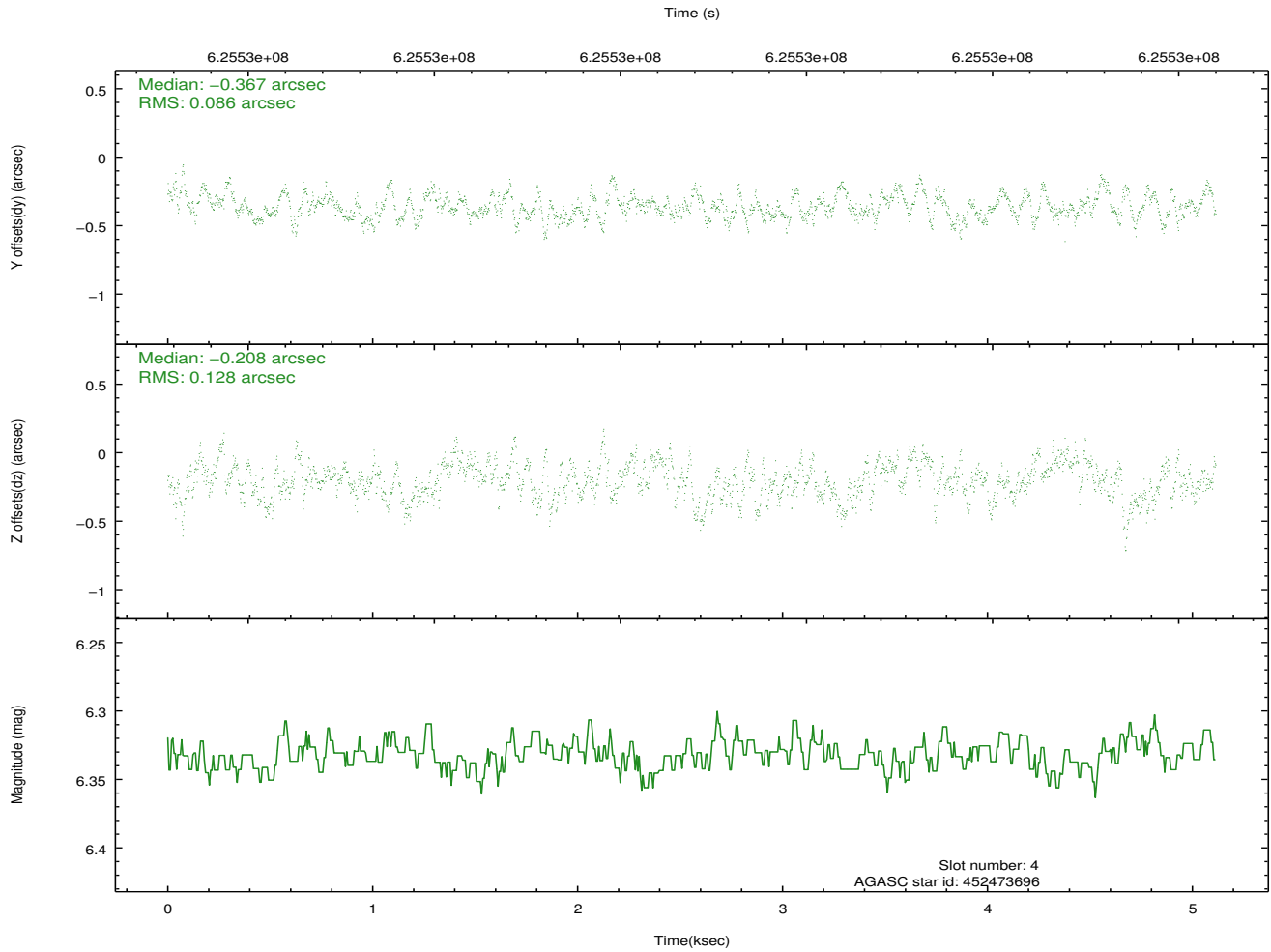
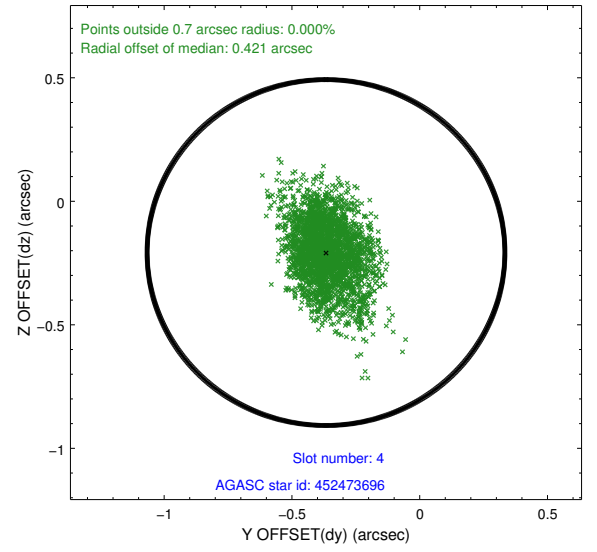
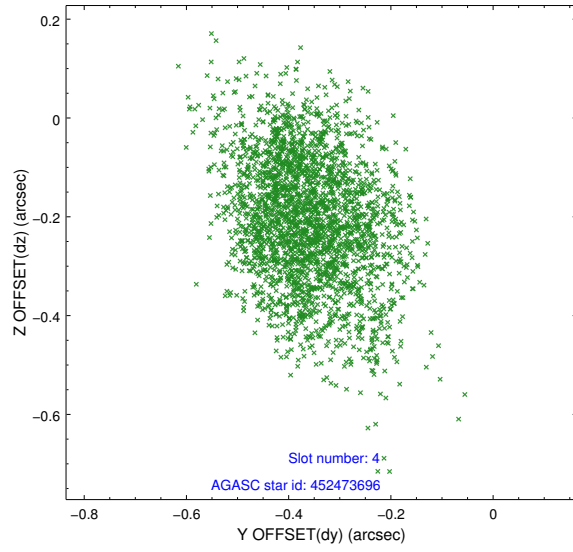
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.03	1248	-0.221	-0.078	0.008	0.012	0.000000	0.000000	-769.24	-1742.63
1	FID		ACIS-S-4	7.16	1248	0.465	0.128	0.006	0.011	0.000000	0.000000	2144.14	164.88
2	FID		ACIS-S-5	7.14	1247	-0.275	-0.041	0.007	0.012	0.000000	0.000000	-1820.65	159.66
3	GUIDE	used	452466920	9.75	2482	-0.127	-0.022	0.230	0.393	176.002077	46.445287	2094.32	-1770.67
4	GUIDE	used	452473696	6.33	2496	-0.367	-0.208	0.161	0.272	174.639632	46.834203	177.50	1330.64
5	GUIDE	used	452474296	9.38	2493	0.381	0.280	0.268	0.402	175.196051	46.137456	-181.11	-1507.30
6	GUIDE	used	452474760	8.89	2492	-0.266	0.086	0.176	0.291	175.631749	46.506608	1474.21	-1059.73
7	GUIDE	used	452341880	8.63	2494	0.406	-0.143	0.168	0.278	173.694474	46.596663	-2204.74	2032.75

2.4 Star Slots

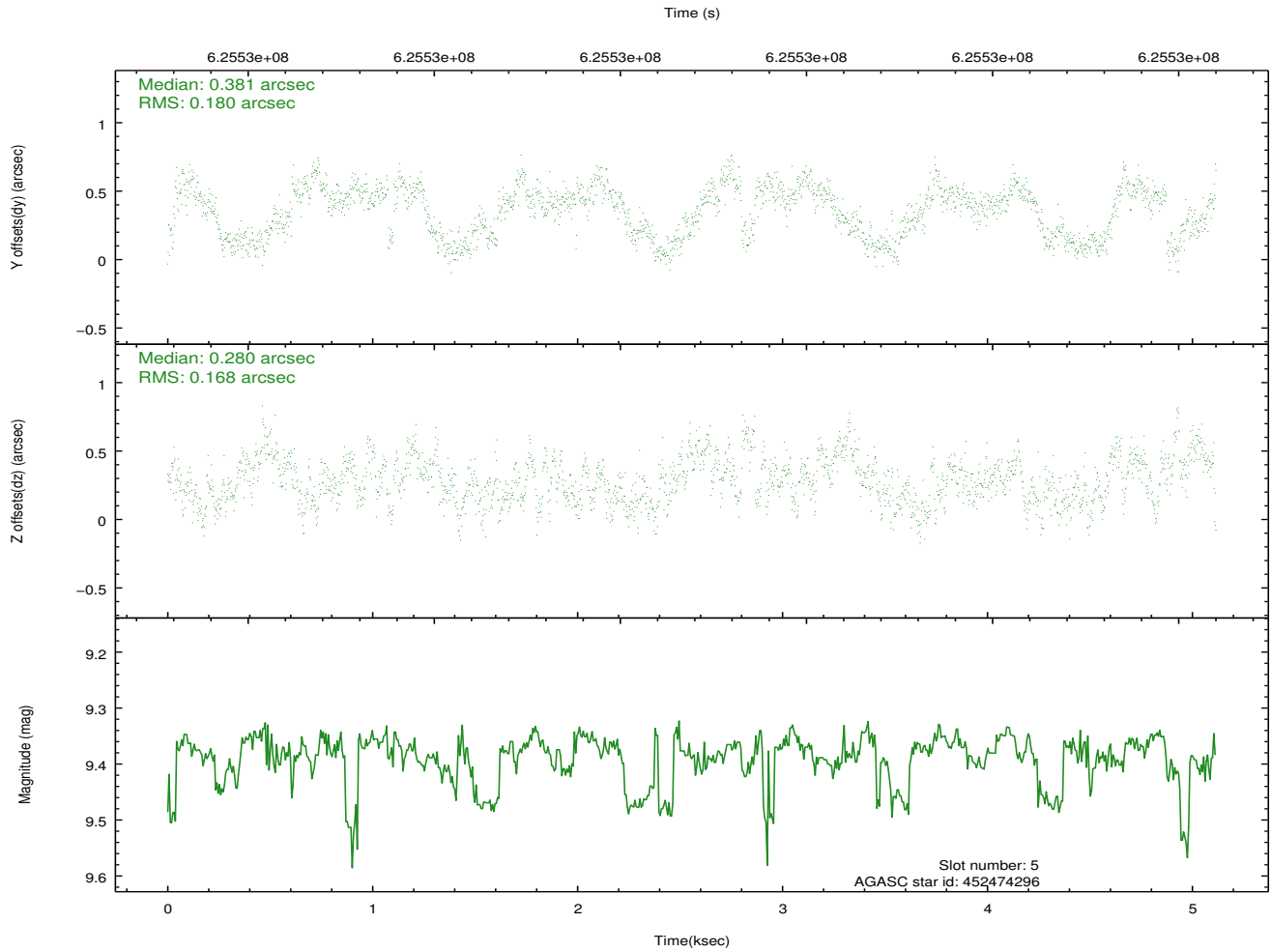
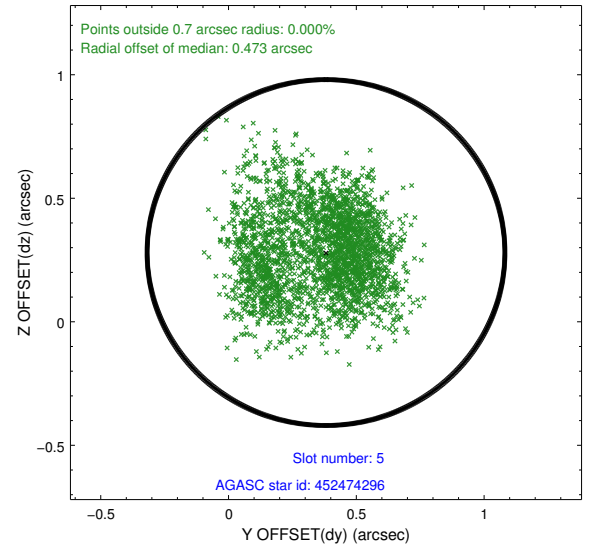
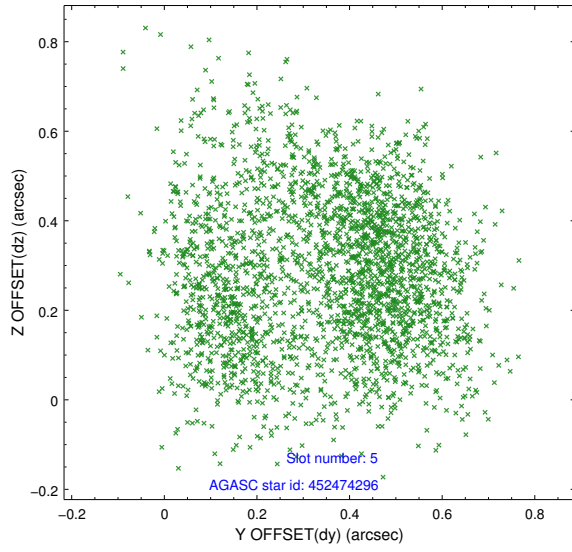
2.4.1 Slot 3



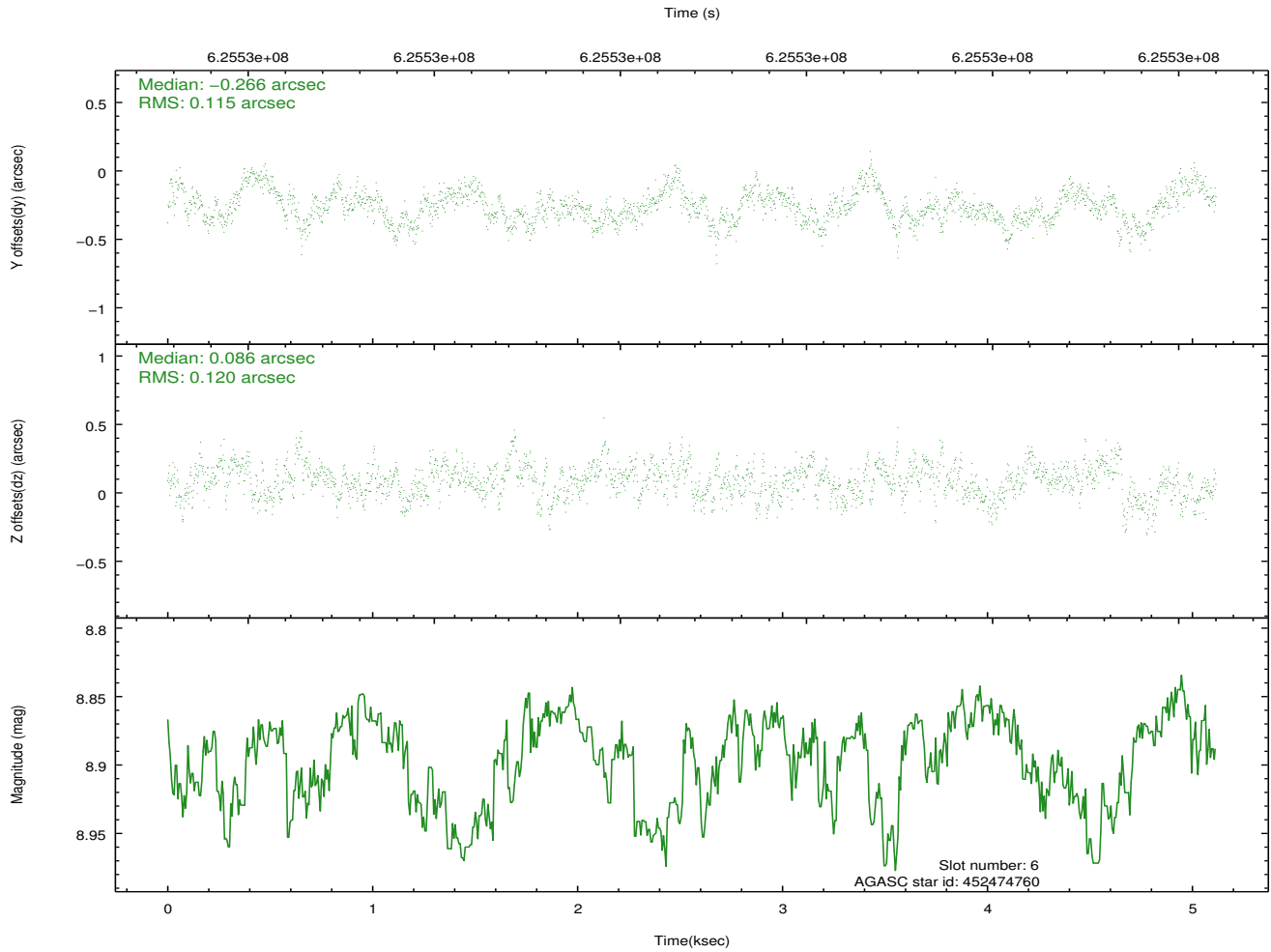
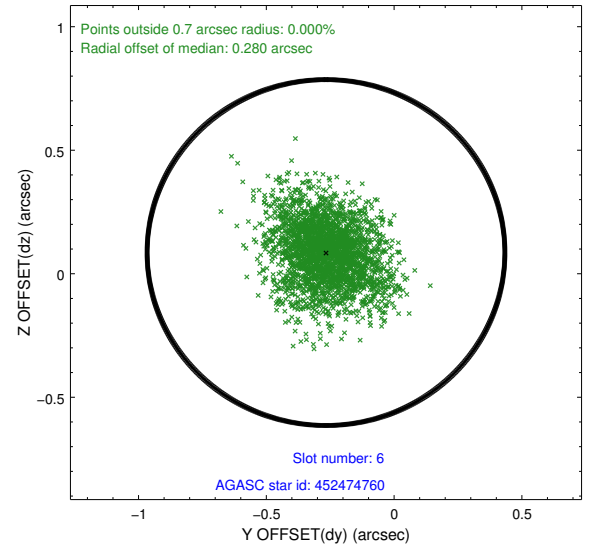
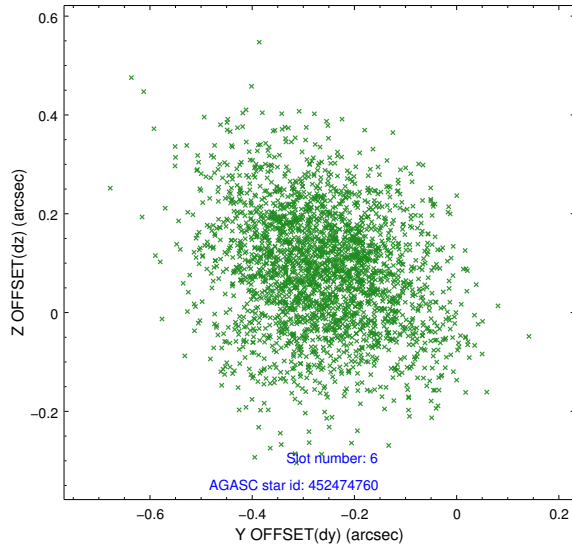
2.4.2 Slot 4



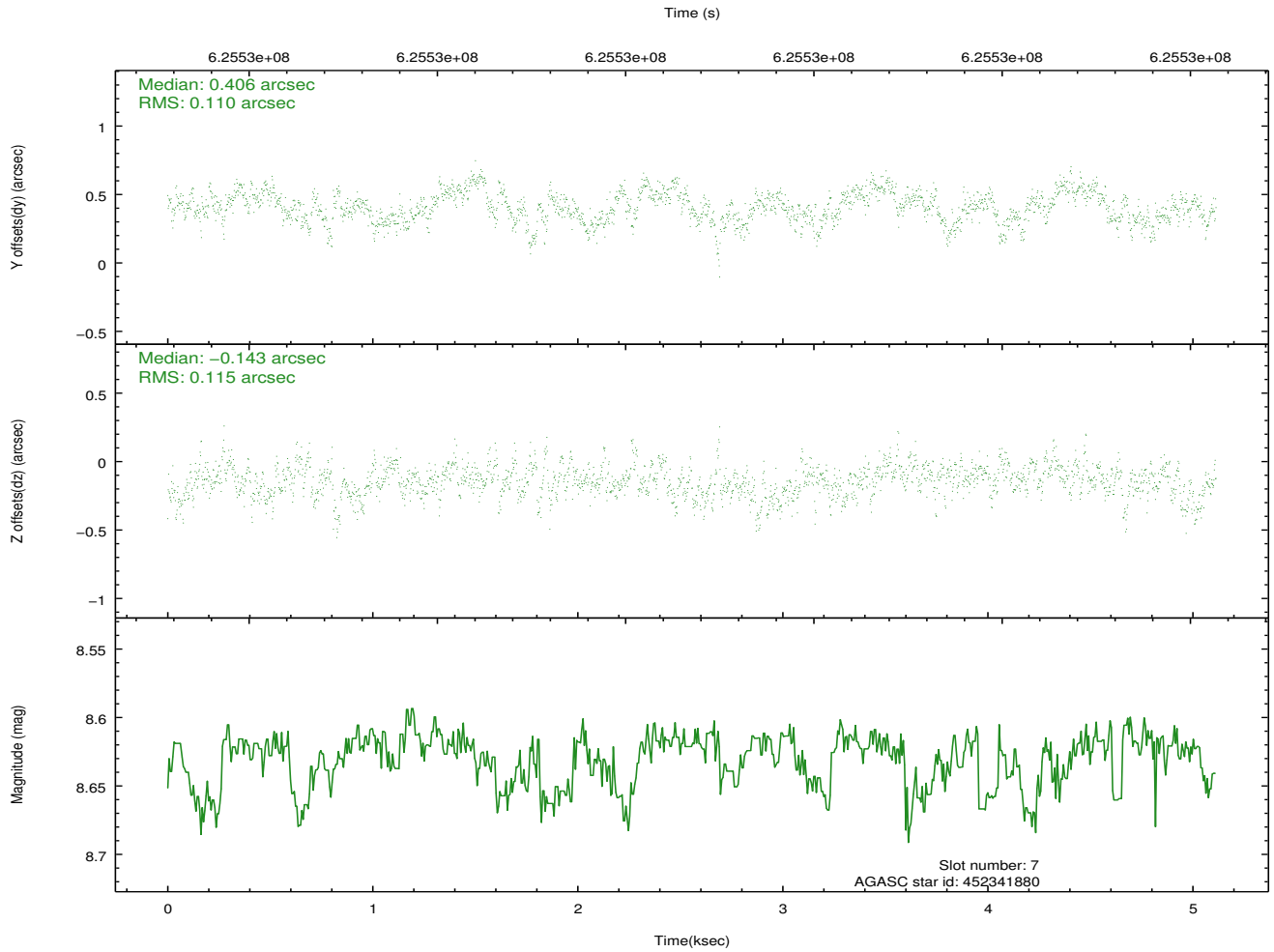
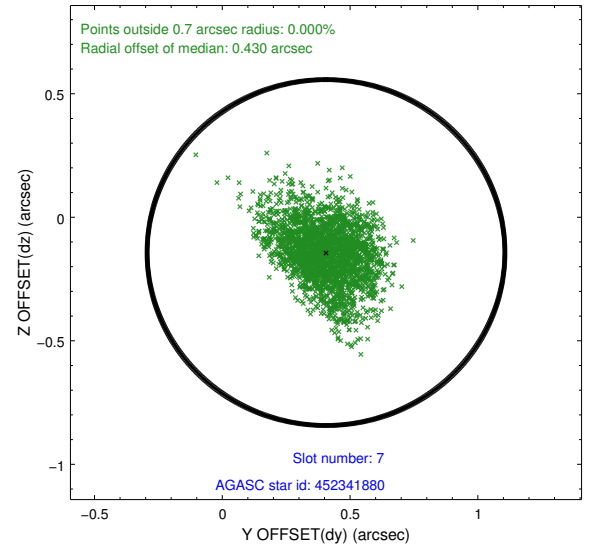
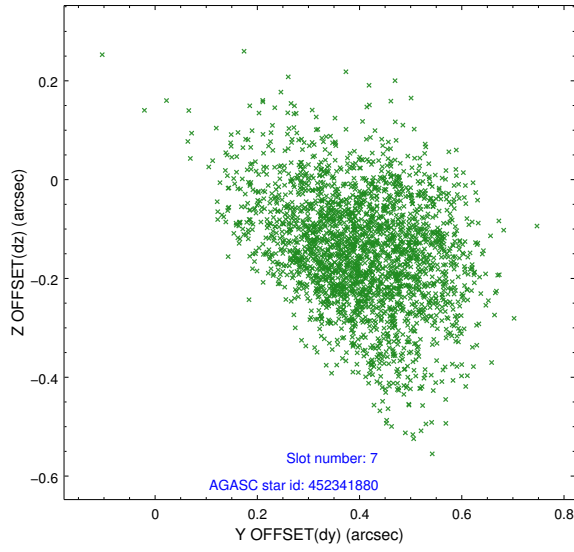
2.4.3 Slot 5



2.4.4 Slot 6

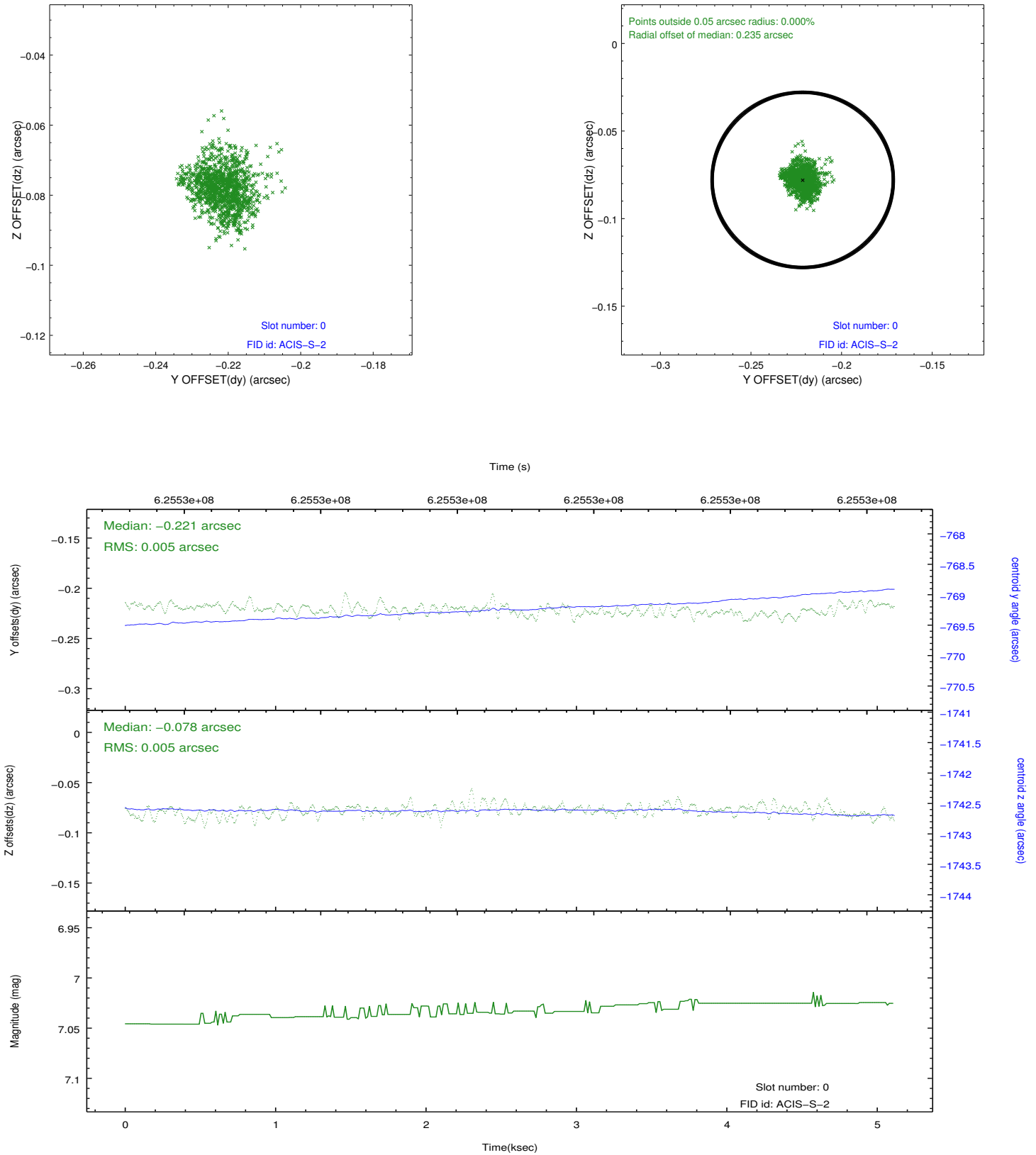


2.4.5 Slot 7

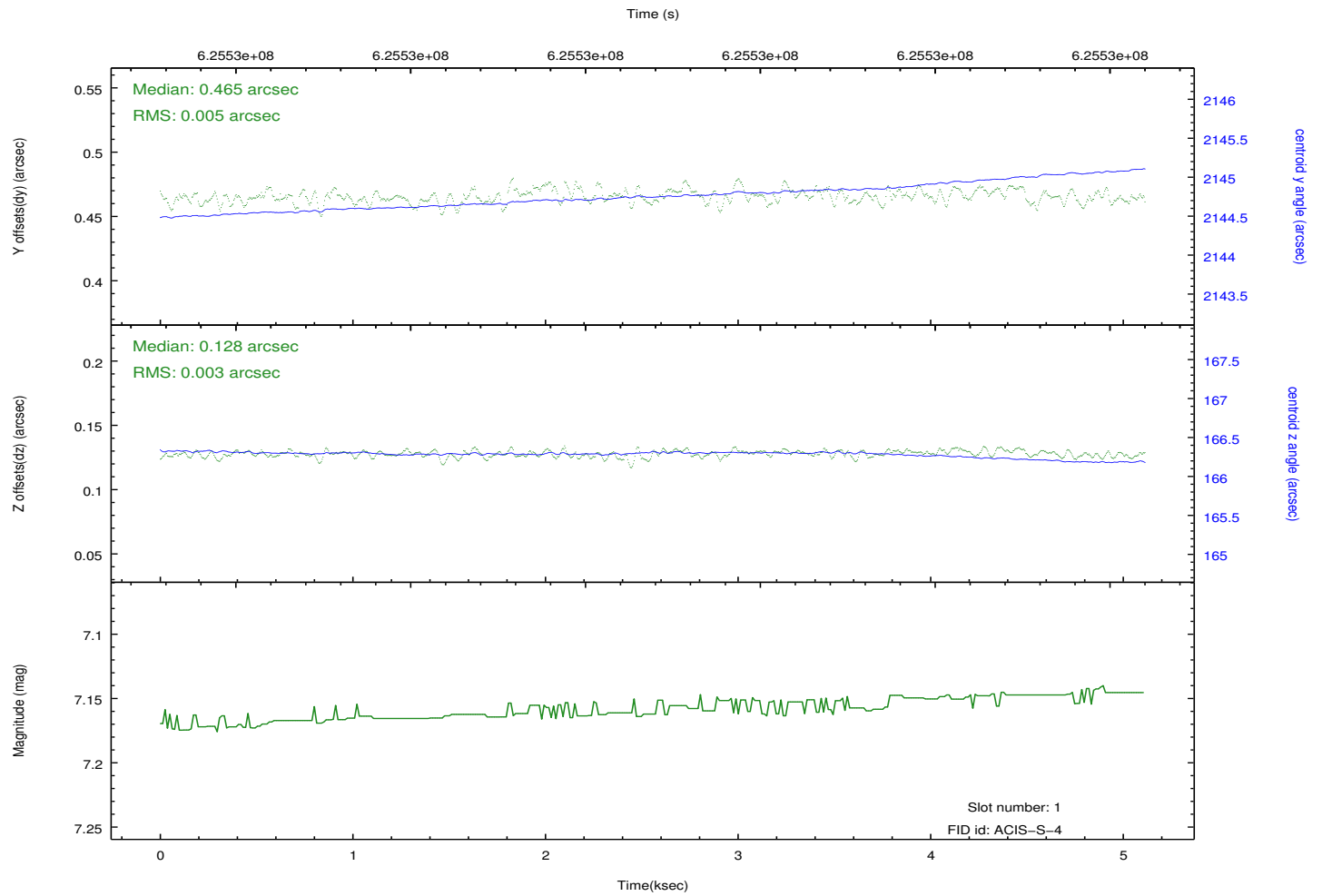
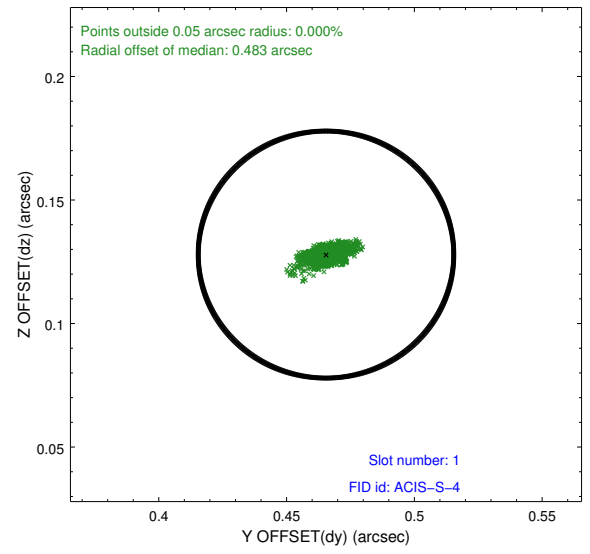
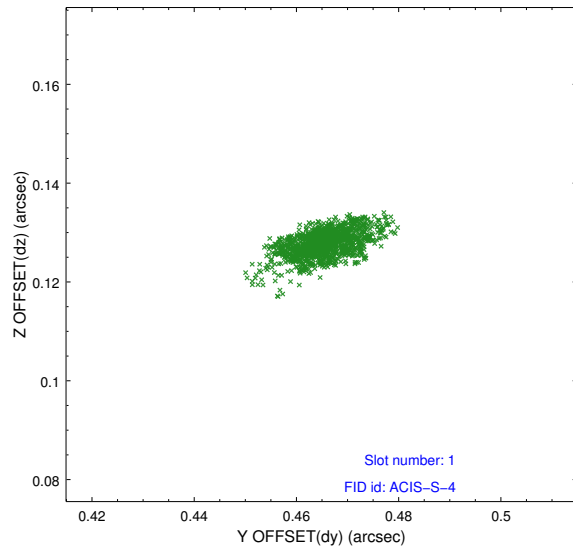


2.5 FID Slots

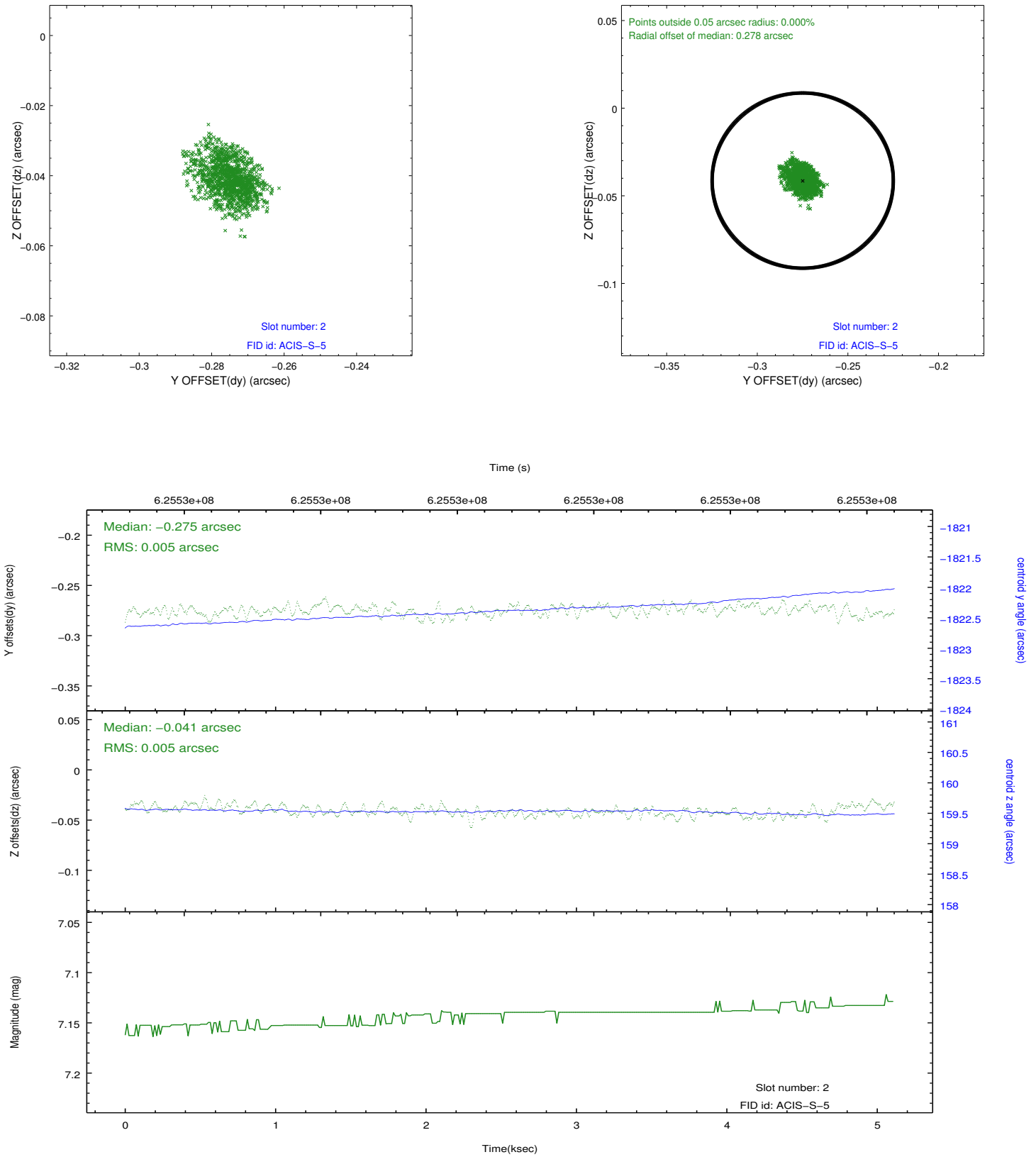
2.5.1 Slot 0



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)	2017.10.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.9568000738621

A.2 Comments