

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19320 - L2 Version 1
Chandra X-Ray Center

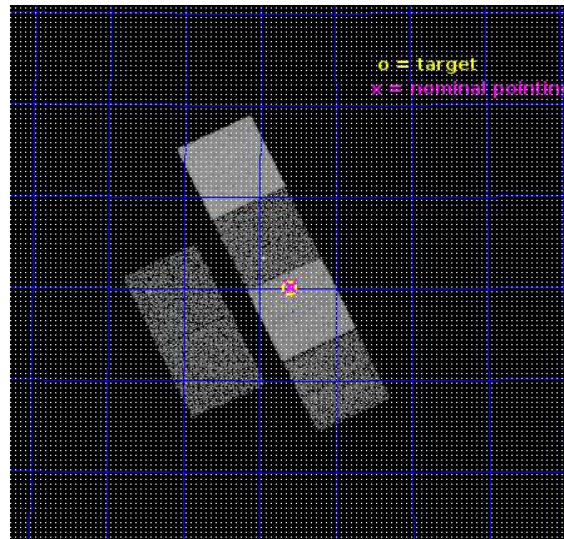
L2 Processing Date : Nov 26 2016

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

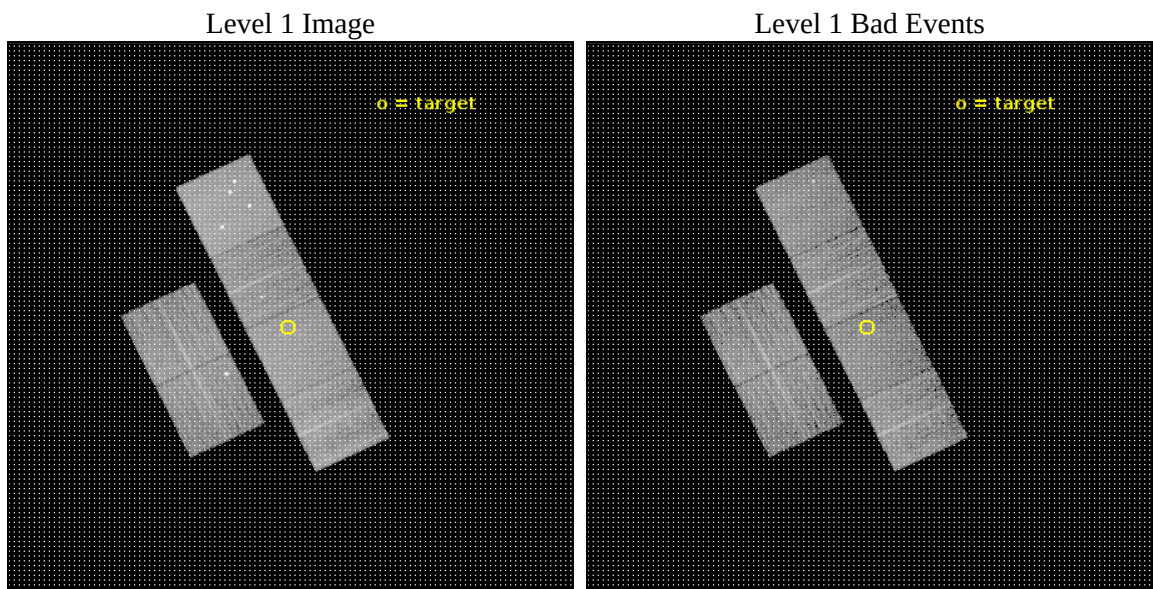
seq_num	601277	Sequence number
obs_id	19320	Observation id
title	A homogeneous view of X-ray halos in massive early-type galaxies	P
observer	Andy Goulding	Principal investigator
object	NGC3613	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	169.650417	Observer's specified target RA [deg]
dec_targ	58.0	Observer's specified target Dec [deg]
ra_nom	169.64620518326	Nominal RA [deg]
dec_nom	58.004073022548	Nominal Dec [deg]
roll_nom	64.570119329618	Nominal Roll [deg]
revision	1	Processing version of data
ontime	9968.0001485348	Sum of GTIs [s]
livetime	9841.7793286449	Livetime [s]
ontime2	9968.0001485348	Sum of GTIs [s]
ontime3	9968.0001485348	Sum of GTIs [s]
ontime5	9968.0001485348	Sum of GTIs [s]
ontime6	9968.0001485348	Sum of GTIs [s]
ontime7	9968.0001485348	Sum of GTIs [s]
ontime8	9968.0001485348	Sum of GTIs [s]
l2events	110587	Number of level 2 events



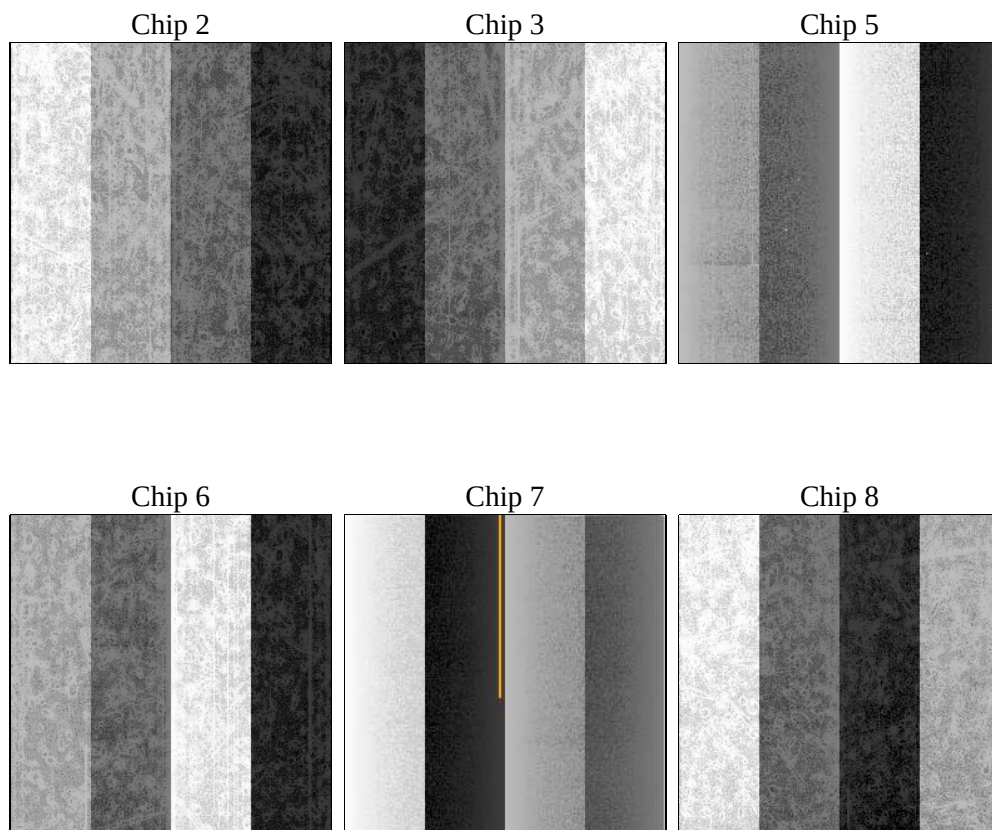
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	10015.843000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	9968.0001485348	Sum of GTIs [s]
caldbver	4.7.2	 	ontime2	9968.0001485348	Sum of GTIs [s]
date	2016-11-26T20:43:10	Date and time of file creation	ontime3	9968.0001485348	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	9968.0001485348	Sum of GTIs [s]
			ontime6	9968.0001485348	Sum of GTIs [s]
			ontime7	9968.0001485348	Sum of GTIs [s]
			ontime8	9968.0001485348	Sum of GTIs [s]
			l1events	490577	Number of level 1 events

2.1.4 Events

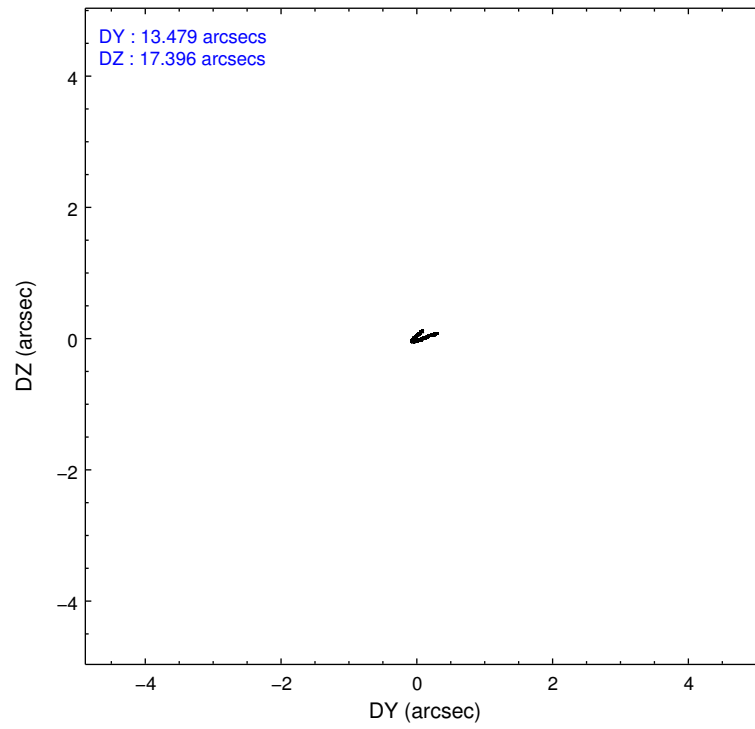
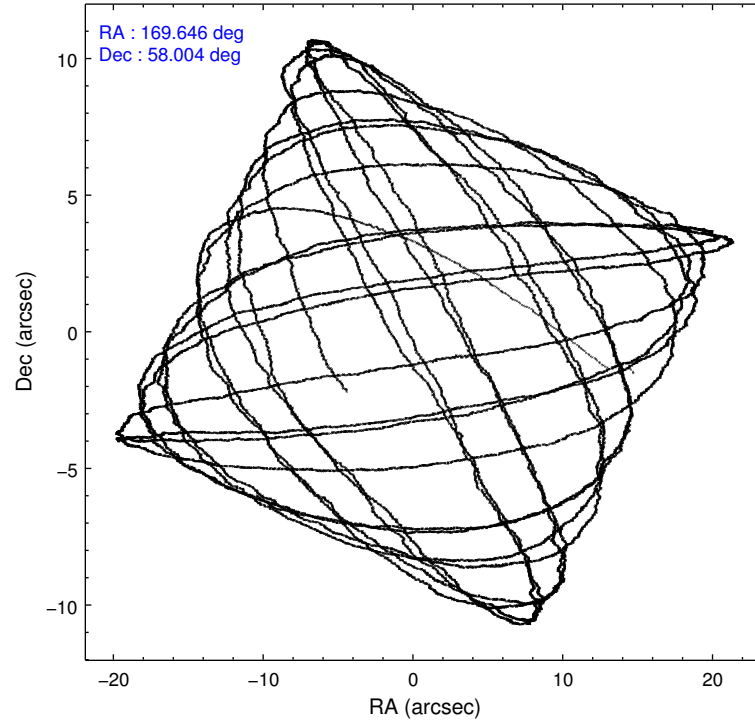
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	69825	65990	116156	66953	85593	86060	grade 0 events	2541	5304	12148	3363	3062	6085
rejected events	62688	56333	55210	58322	48879	63065		3%	8%	10%	5%	3%	7%
rejected %	89%	85%	47%	87%	57%	73%	grade 1 events	39	47	477	36	127	54
								0%	0%	0%	0%	0%	0%
							grade 2 events	1738	1438	17698	1883	7869	5883
								2%	2%	15%	2%	9%	6%
							grade 3 events	728	757	1598	787	2877	2395
								1%	1%	1%	1%	3%	2%
							grade 4 events	714	715	1563	793	2899	2216
								1%	1%	1%	1%	3%	2%
							grade 5 events	2853	3180	7320	3189	8546	4644
								4%	4%	6%	4%	9%	5%
							grade 6 events	1416	1445	27957	1808	20021	6419
								2%	2%	24%	2%	23%	7%
							grade 7 events	59796	53104	47395	55094	40192	58364
								85%	80%	40%	82%	46%	67%

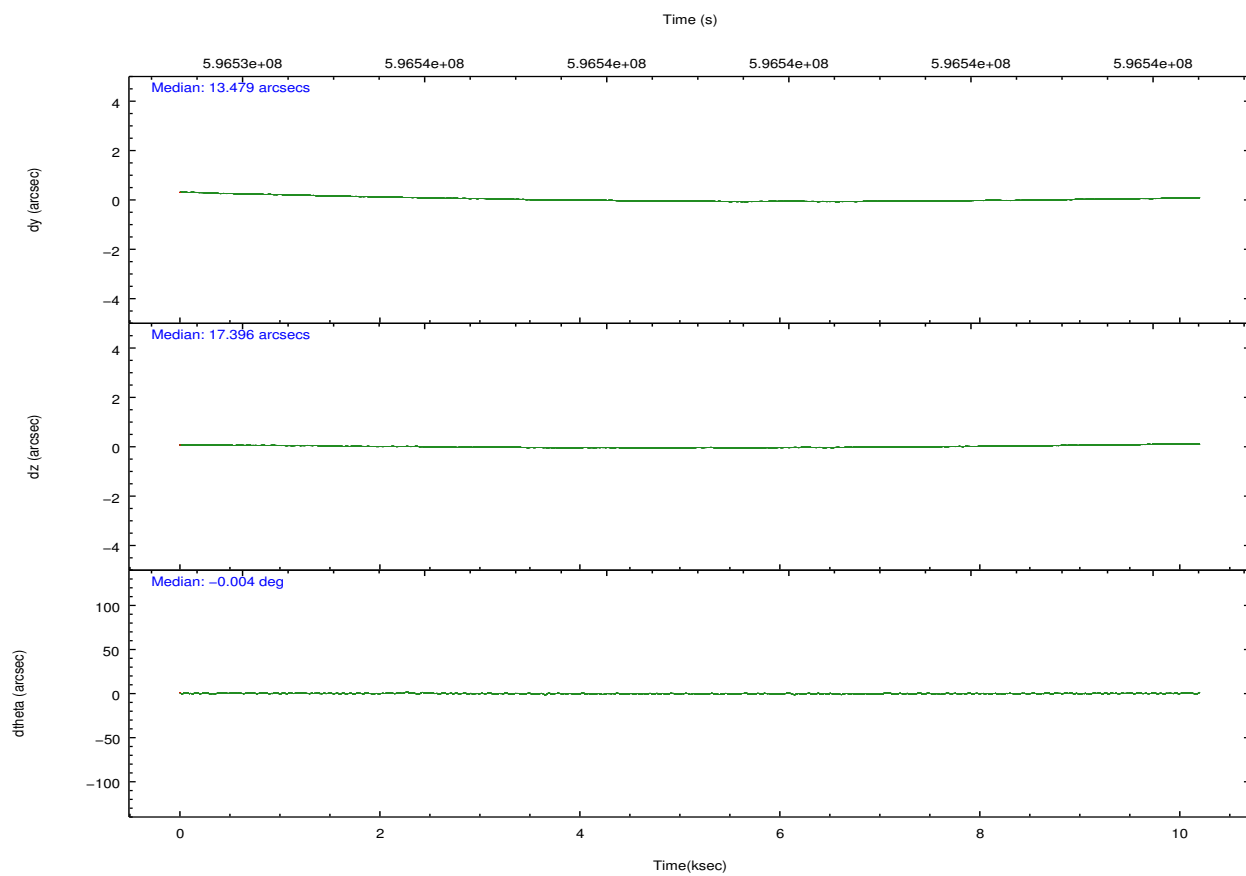
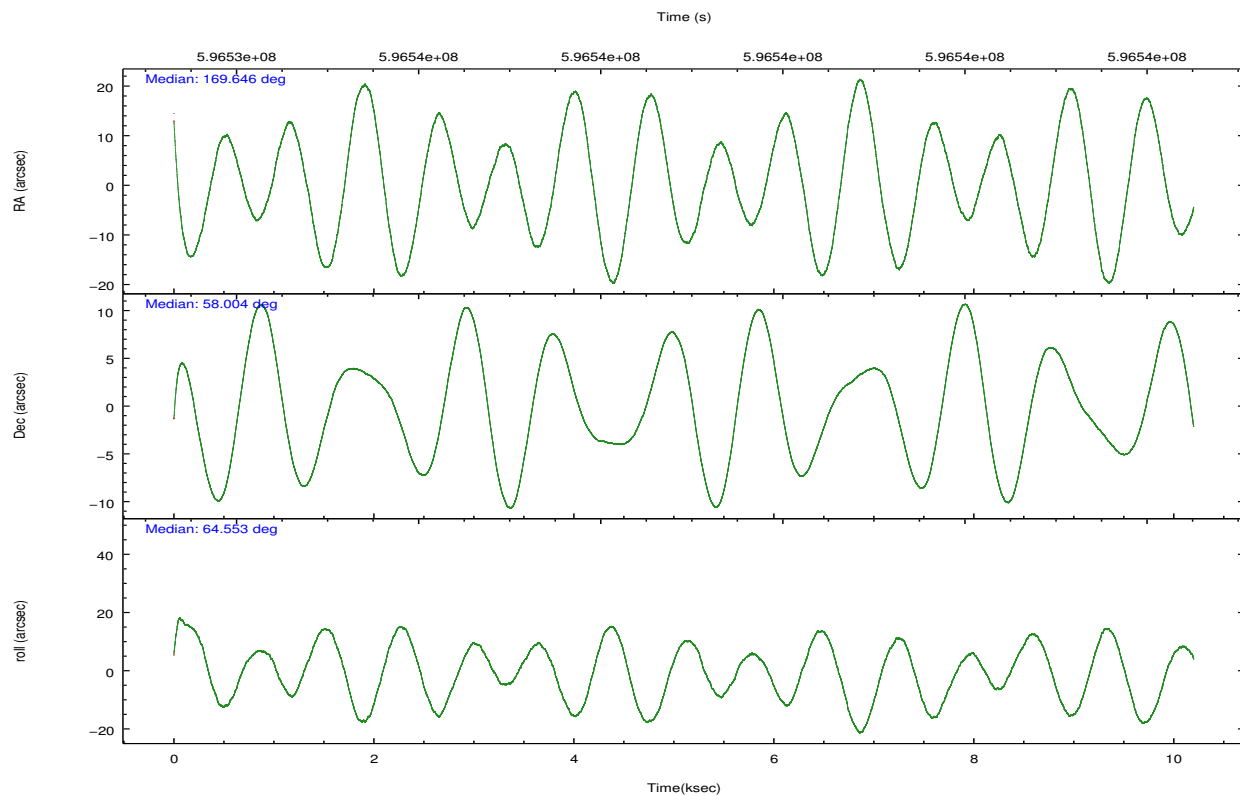
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-235678	ACIS-235678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	169.651074	169.6462051832565
[deg] Pointing Dec	57.976725	58.00407302254844
[deg] Pointing Roll	64.409359	64.57011932961814
[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)	596534011.184000	596533008.7226599
Observation start date	2016-11-26T07:52:23	2016-11-26T07:36:48
[s] Observation end time (MET)	596544027.184000	596544254.51081
Observation end date	2016-11-26T10:39:19	2016-11-26T10:44:14
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	O2	Y
CCD S0 on	N	N
CCD S1 on	Y	Y
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	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.2

2.3 Aspect



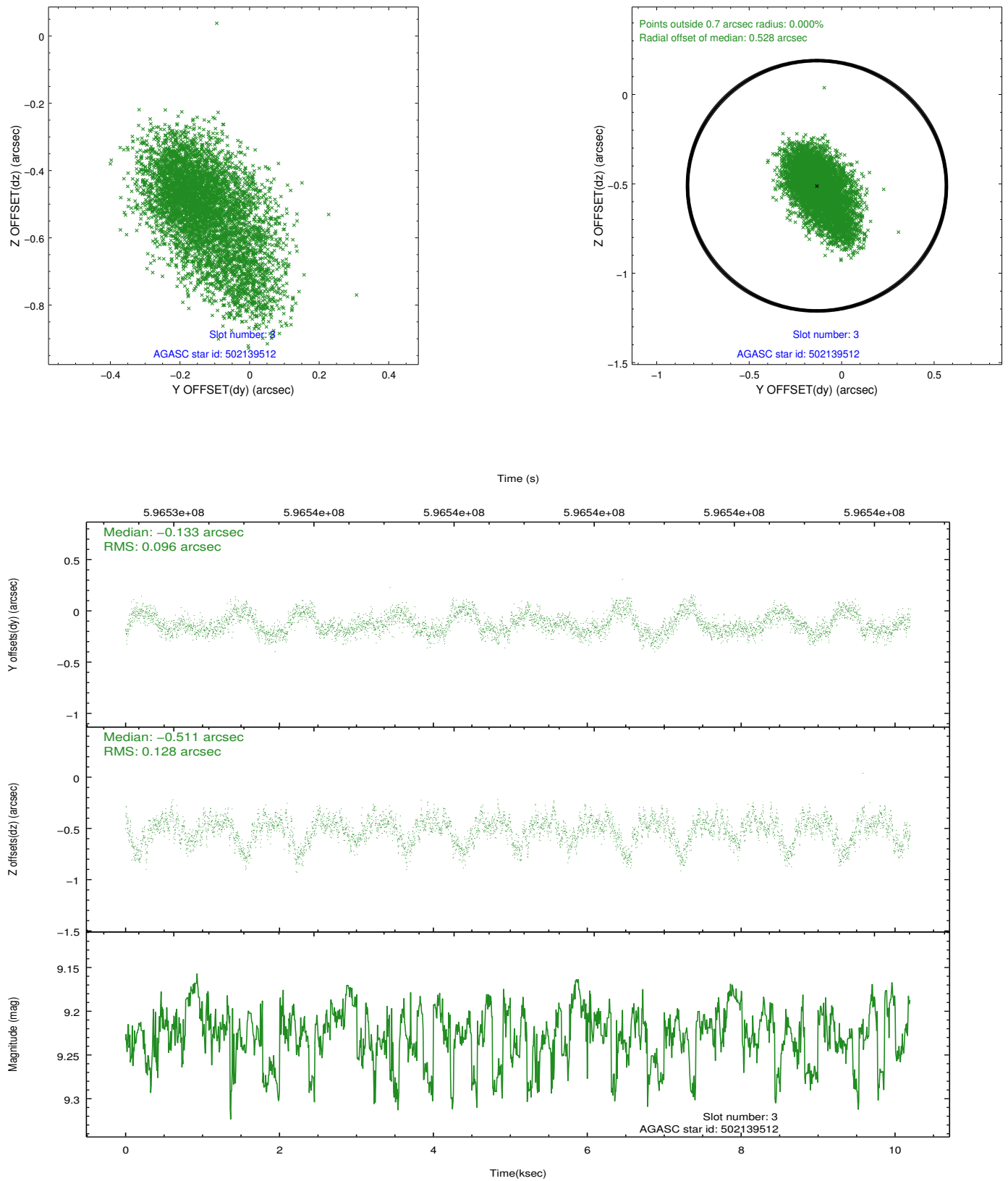


Slot Statistics

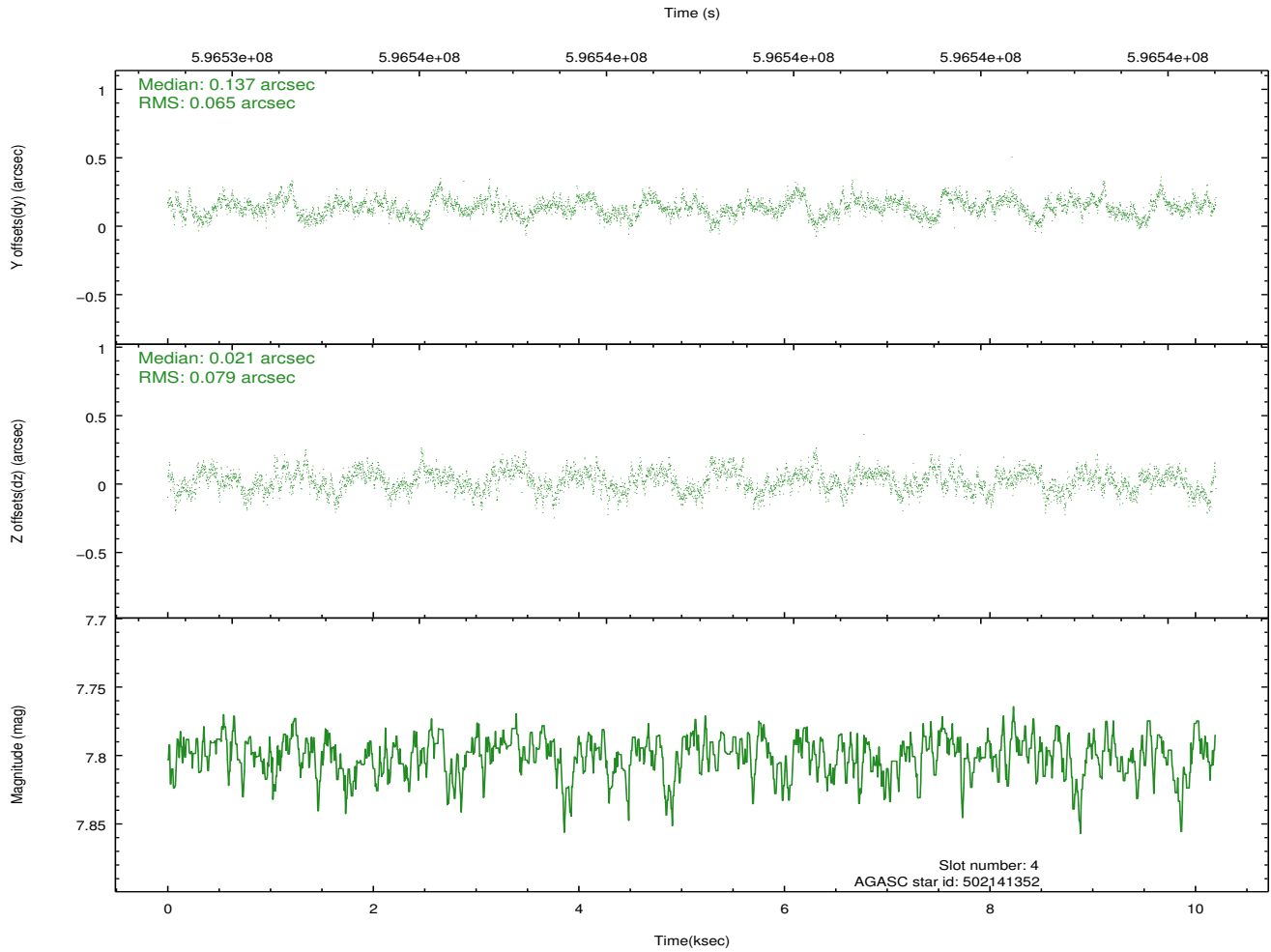
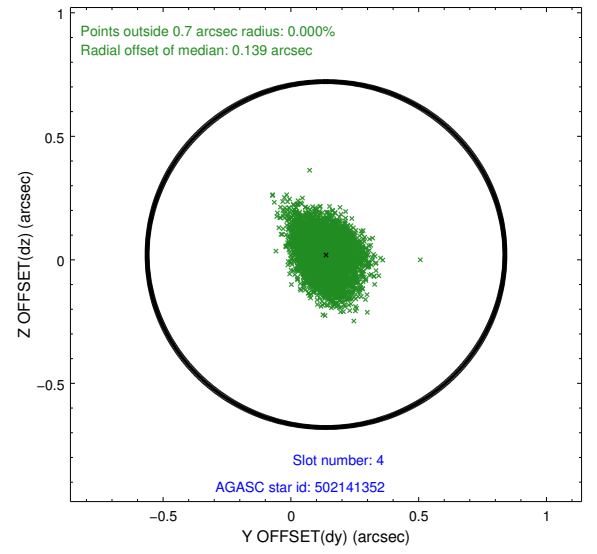
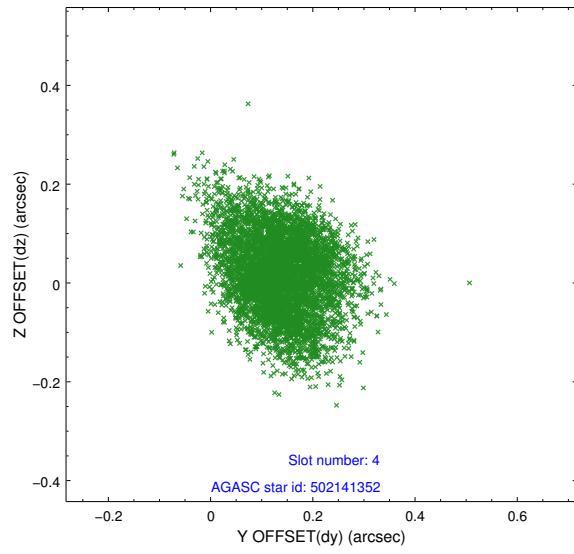
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.04	2488	-0.127	-0.097	0.008	0.013	0.000000	0.000000	-766.58	-1738.89
1	FID		ACIS-S-4	7.15	2488	0.410	0.087	0.006	0.013	0.000000	0.000000	2147.00	169.23
2	FID		ACIS-S-5	7.16	2487	-0.315	0.019	0.007	0.012	0.000000	0.000000	-1818.94	163.43
3	GUIDE	used	502139512	9.23	4972	-0.133	-0.511	0.166	0.292	169.148130	58.684719	1895.12	1950.77
4	GUIDE	used	502141352	7.80	4973	0.137	0.021	0.109	0.176	168.898541	58.214901	164.07	1660.74
5	GUIDE	used	502143224	7.73	4971	0.045	0.056	0.090	0.153	170.371109	58.484355	2241.23	-429.43
6	GUIDE	used	502143704	9.81	4948	0.017	0.378	0.232	0.363	170.428074	58.421889	2086.66	-624.85
7	GUIDE	used	502142976	9.66	4969	-0.074	0.074	0.225	0.347	171.032248	58.349058	2361.18	-1762.47

2.4 Star Slots

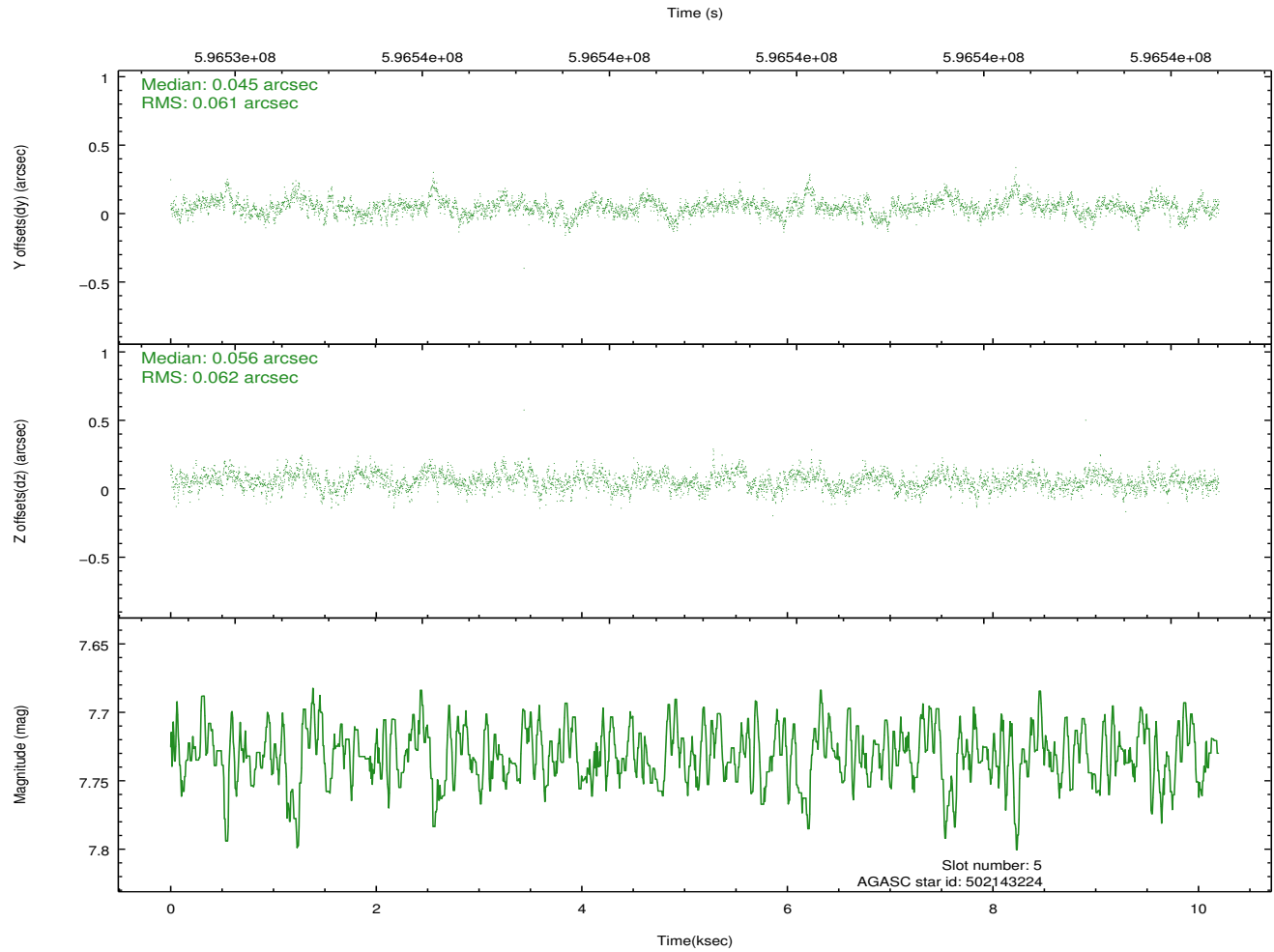
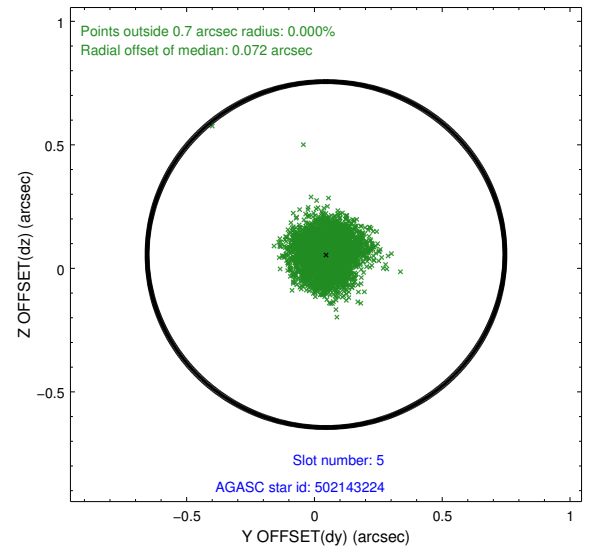
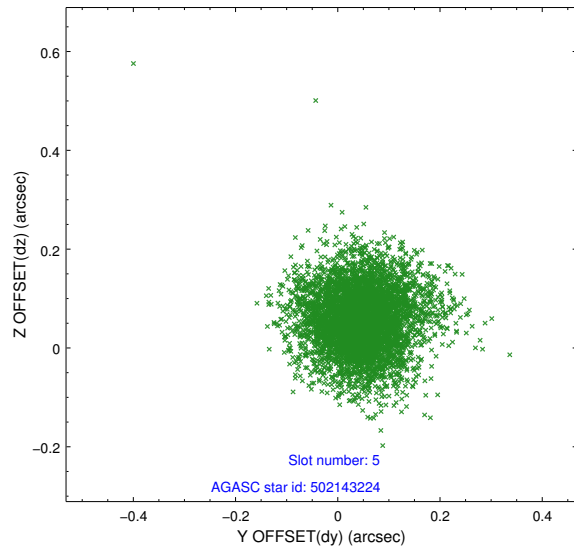
2.4.1 Slot 3



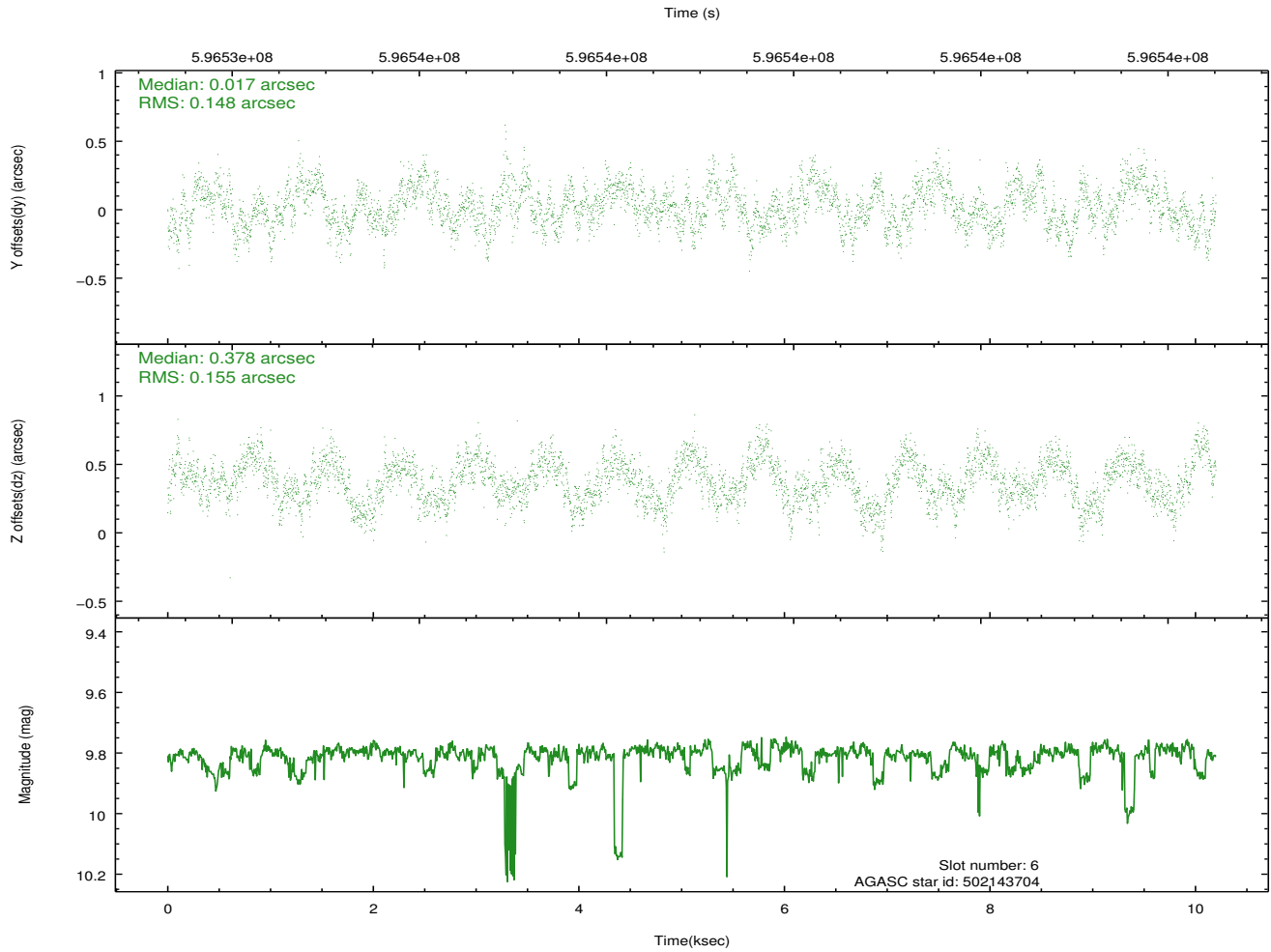
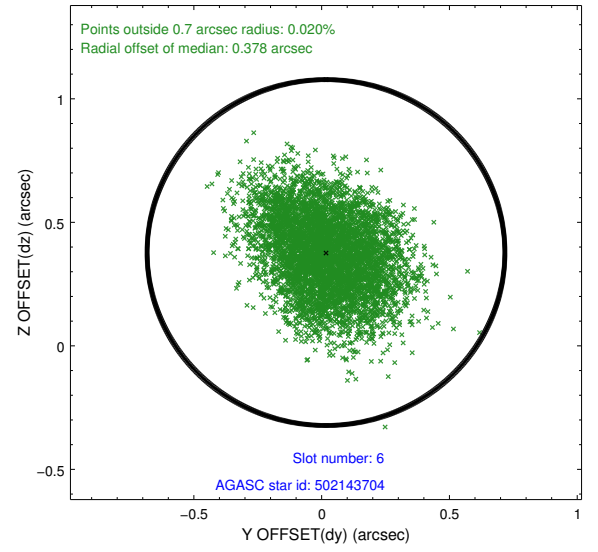
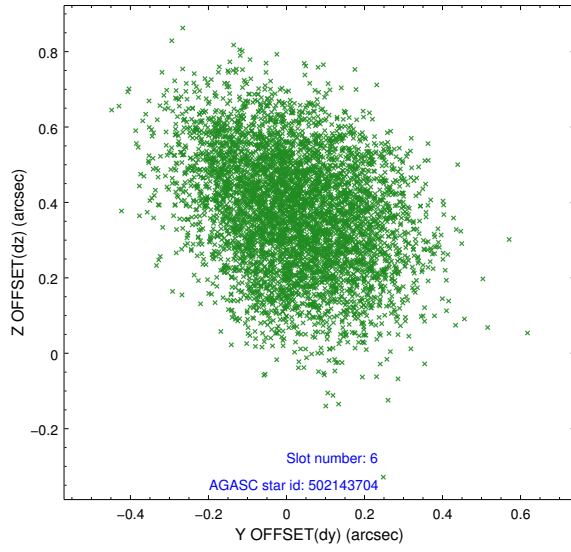
2.4.2 Slot 4



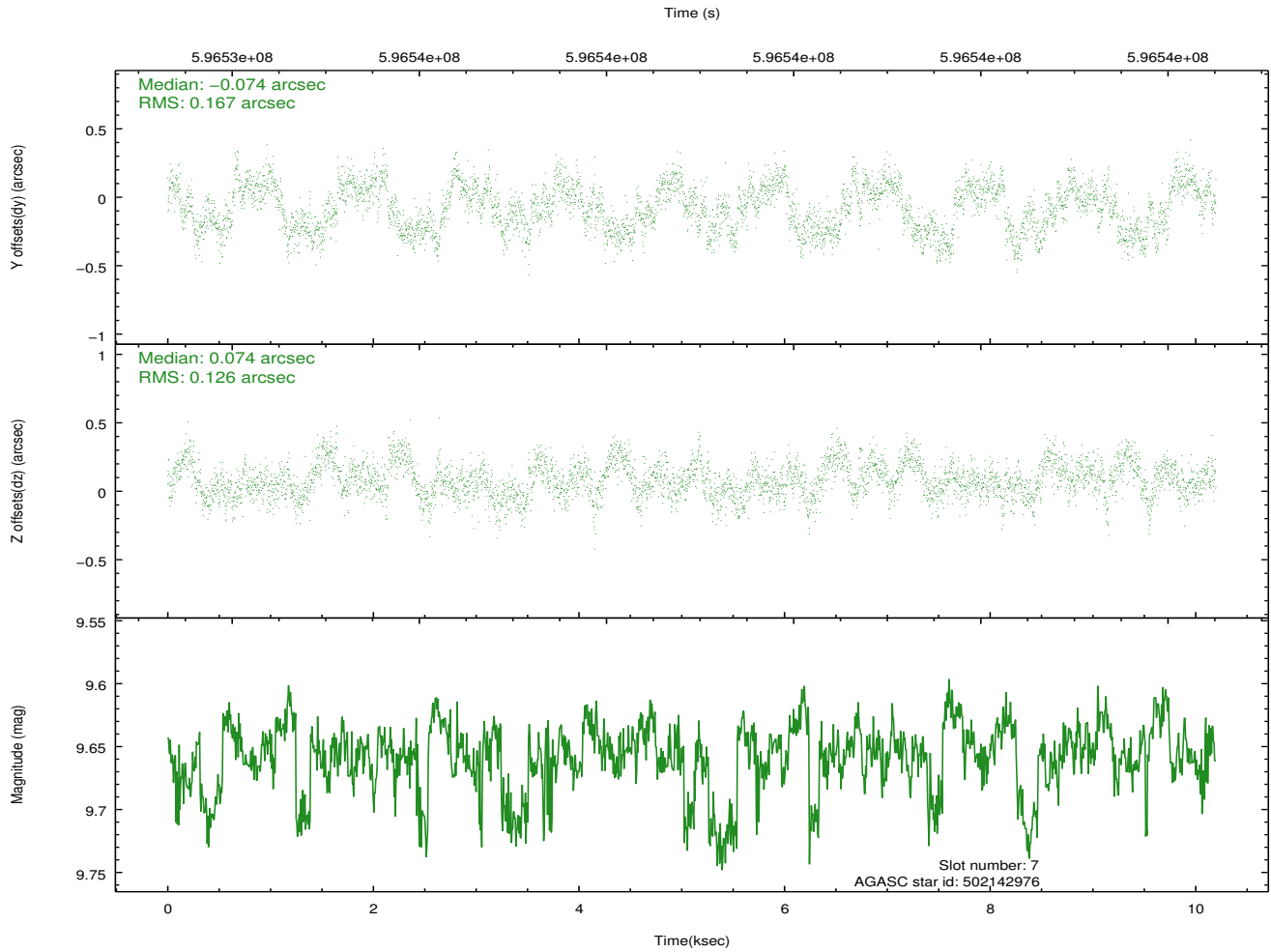
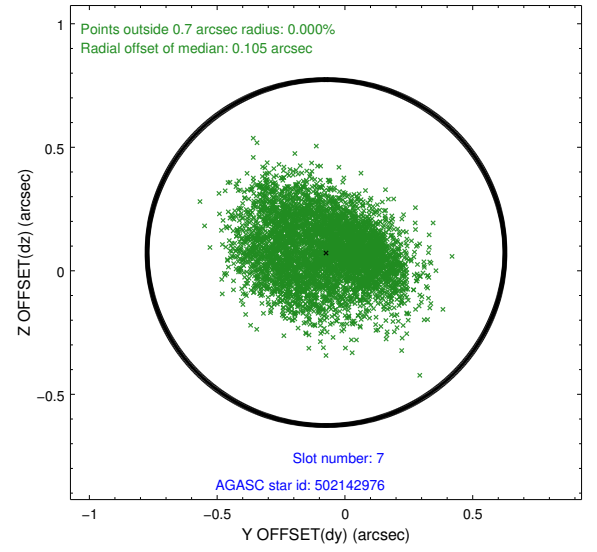
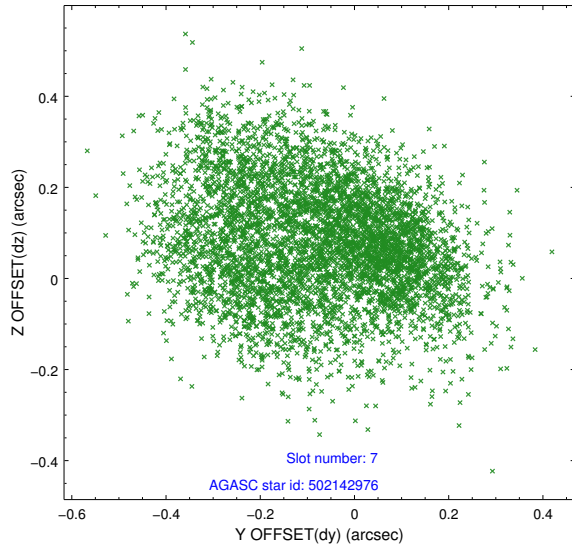
2.4.3 Slot 5



2.4.4 Slot 6

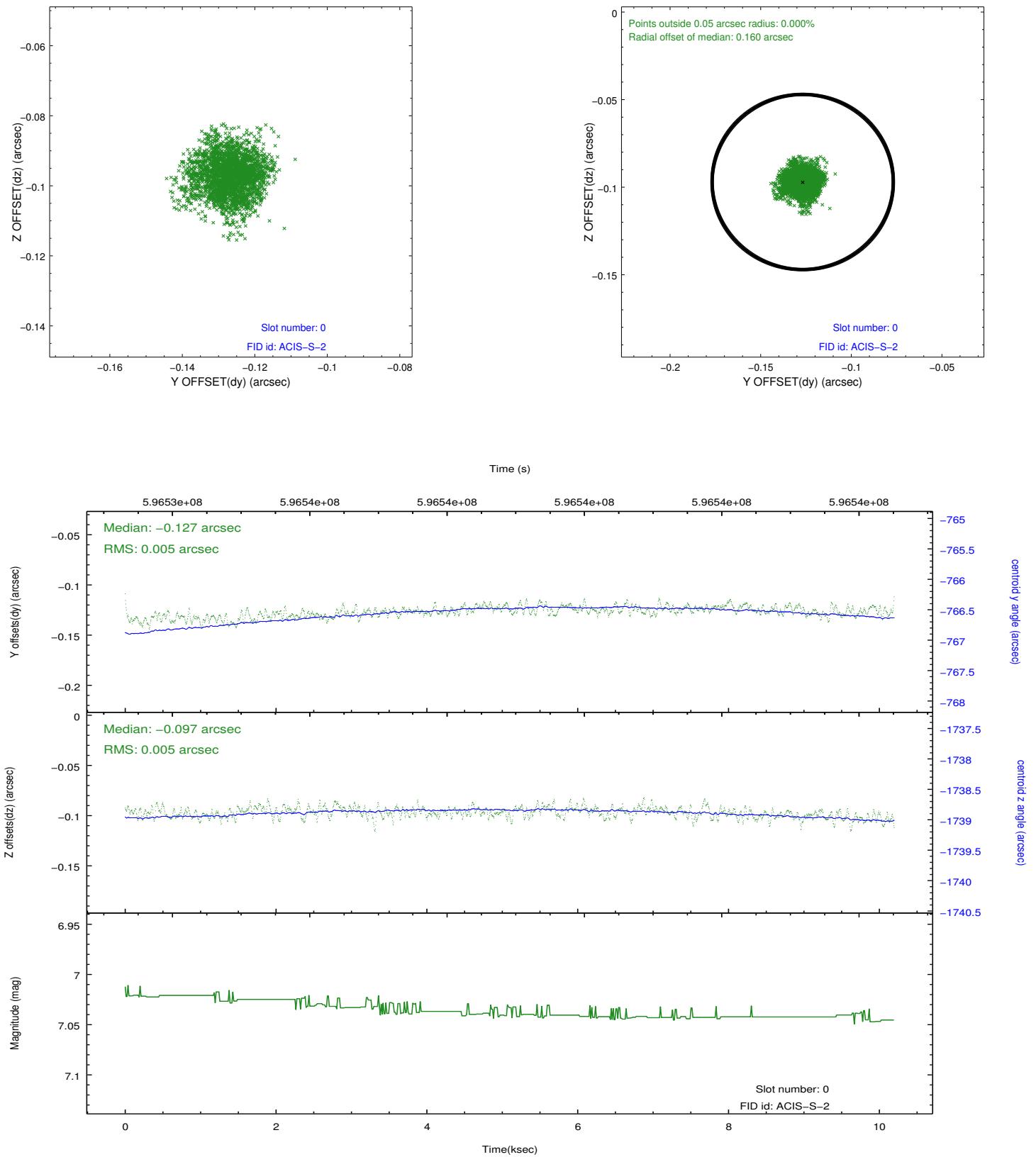


2.4.5 Slot 7

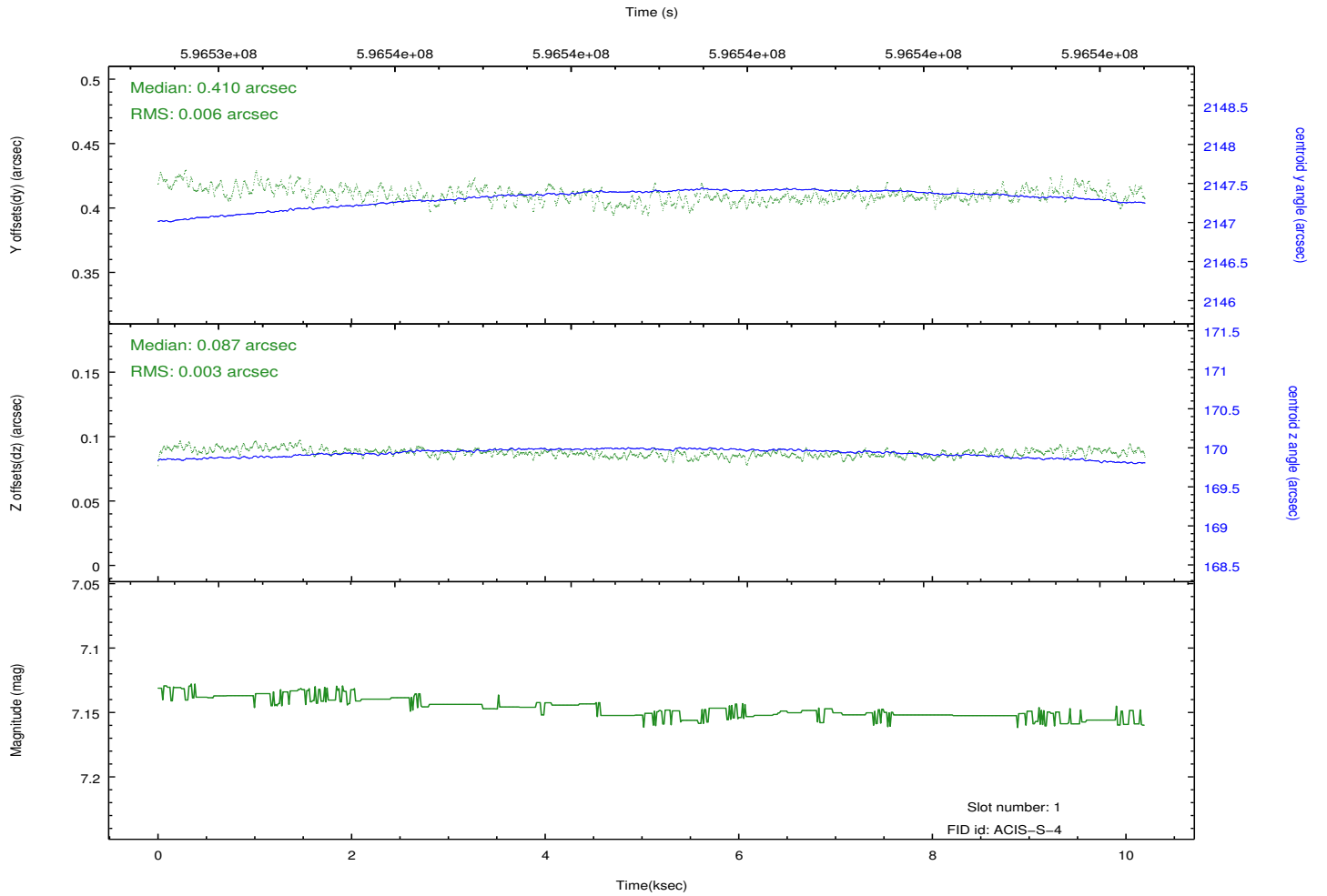
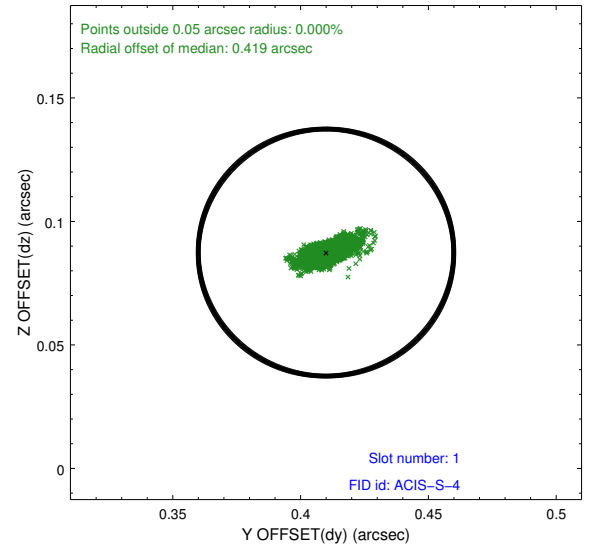
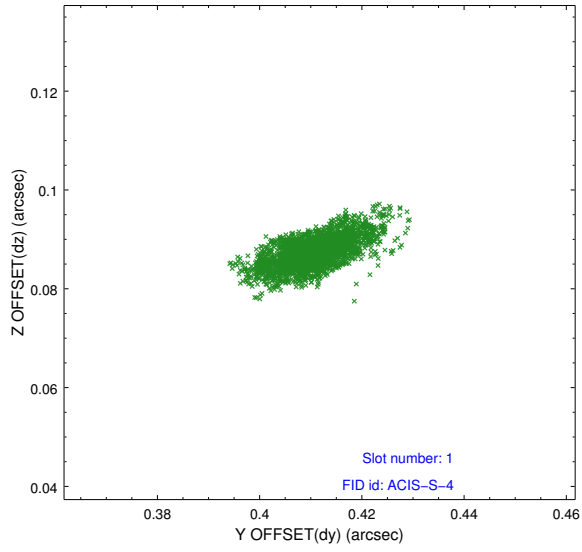


2.5 FID Slots

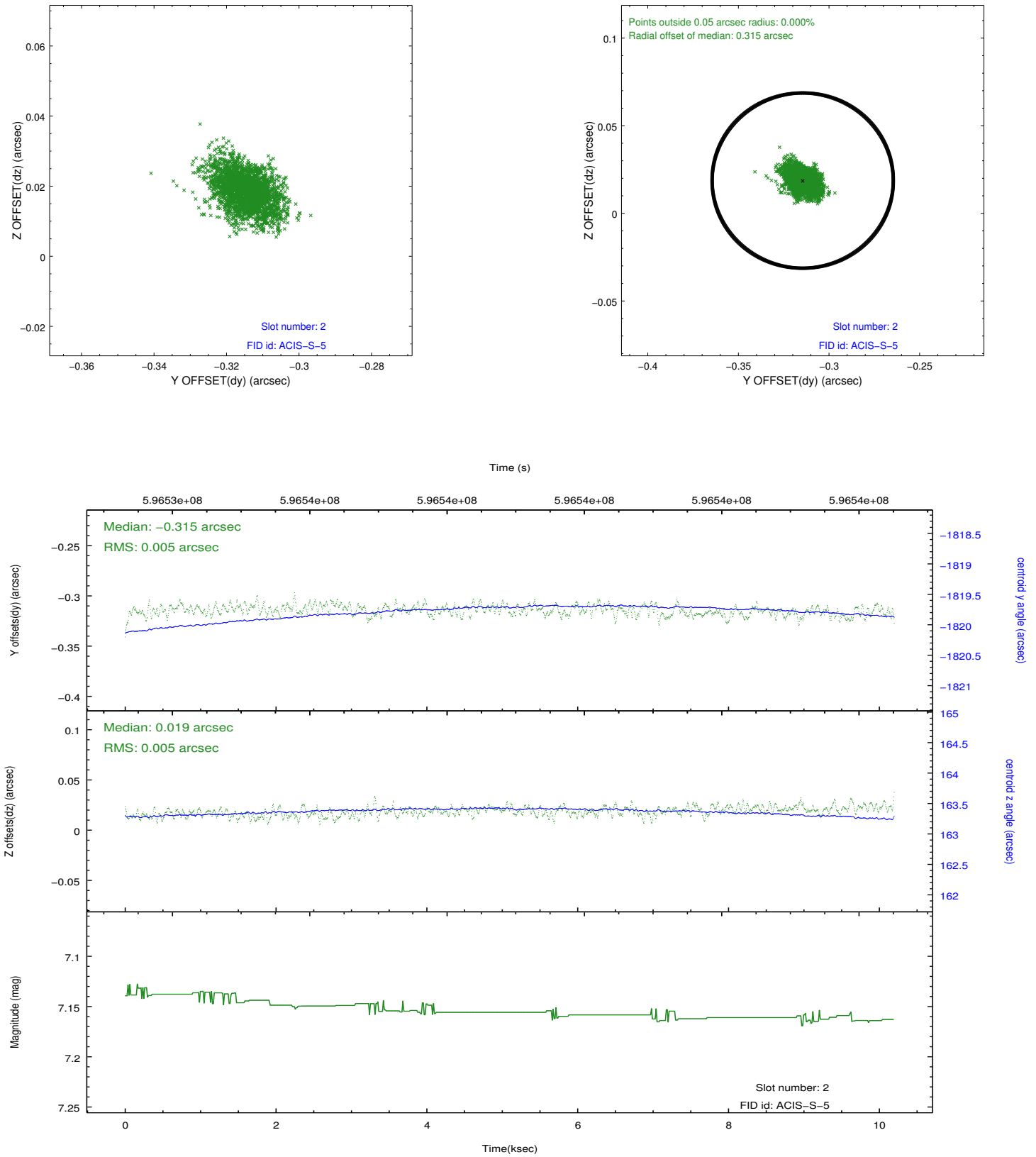
2.5.1 Slot 0



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)	2016.11.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.9680001485348

A.2 Comments