

V&V Reference Report

L2 ASCDS Version : 10.4.1

Observation 16984 - L2 Version 1
Chandra X-Ray Center

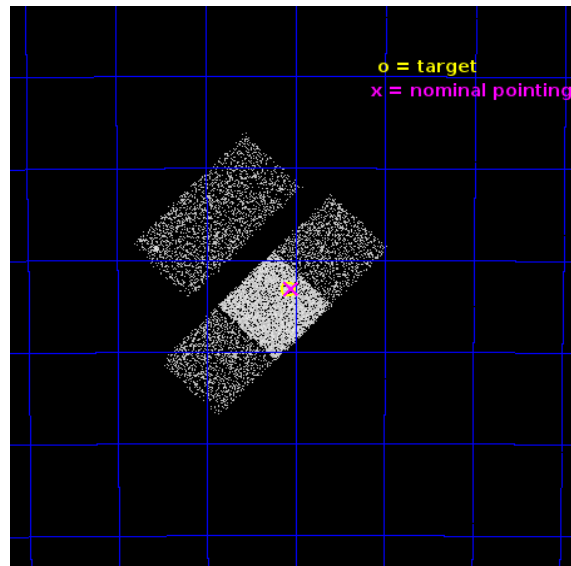
L2 Processing Date : Aug 5 2015

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

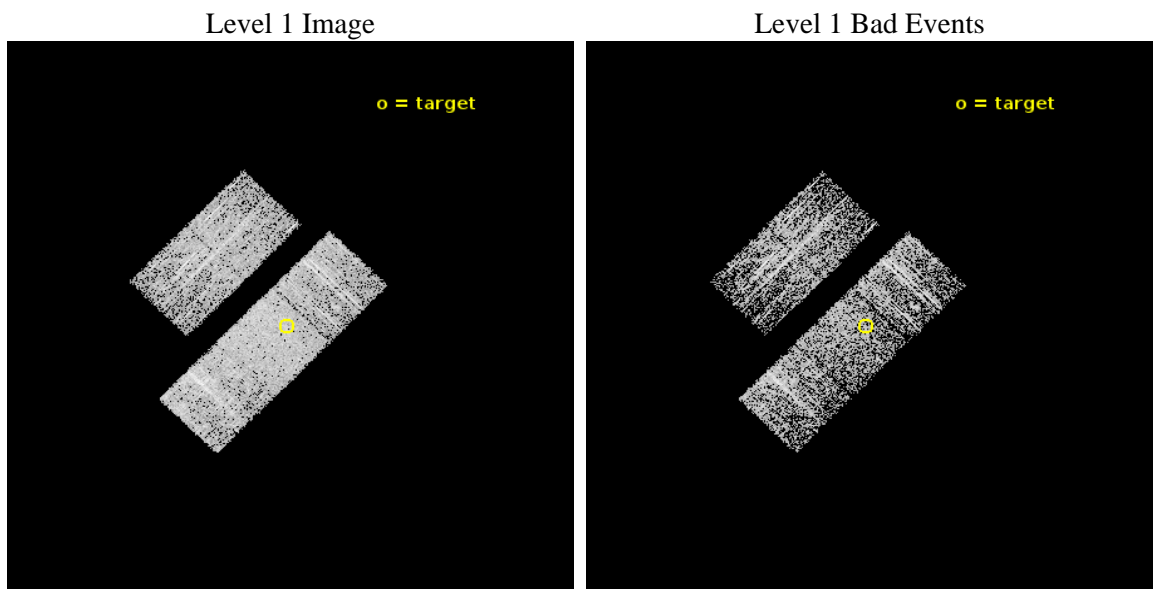
seq_num	601177	Sequence number
obs_id	16984	Observation id
title	Super-massive black holes and nuclear star clusters in late type galaxies	Proposal title
observer	Elena Gallo	Principal investigator
object	NGC2104	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	86.77	Observer's specified target RA [deg]
dec_targ	-51.552944	Observer's specified target Dec [deg]
ra_nom	86.761514722317	Nominal RA [deg]
dec_nom	-51.552456595723	Nominal Dec [deg]
roll_nom	134.29459411704	Nominal Roll [deg]
revision	1	Processing version of data
ontime	2662.9000205994	Sum of GTIs [s]
livetime	2628.1072714318	Livetime [s]
ontime2	2662.9000205994	Sum of GTIs [s]
ontime3	2662.9000205994	Sum of GTIs [s]
ontime6	2662.9000205994	Sum of GTIs [s]
ontime7	2662.9000205994	Sum of GTIs [s]
ontime8	2662.9000205994	Sum of GTIs [s]
l2events	13512	Number of level 2 events



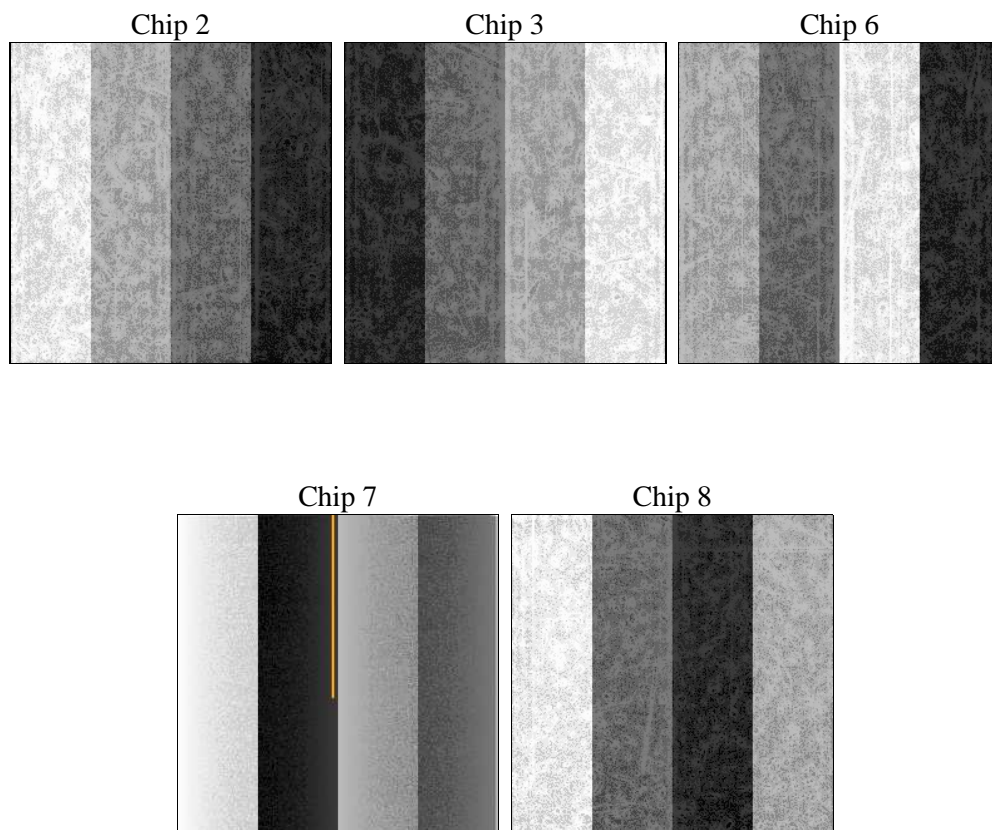
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2600.000000	[s] Scheduled observation exposure time
ascdsver	10.4.1	Processing system revision	ontime	2662.9000205994	Sum of GTIs [s]
caldsver	4.6.8	 	ontime2	2662.9000205994	Sum of GTIs [s]
date	2015-08-05T16:34:41	Date and time of file creation	ontime3	2662.9000205994	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	2662.9000205994	Sum of GTIs [s]
			ontime7	2662.9000205994	Sum of GTIs [s]
			ontime8	2662.9000205994	Sum of GTIs [s]
			l1events	80007	Number of level 1 events

2.1.4 Events

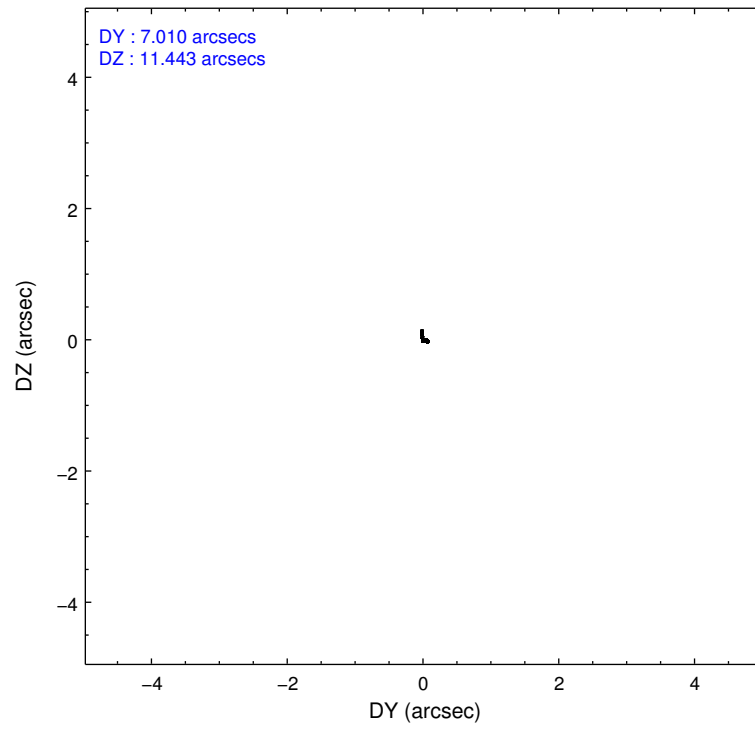
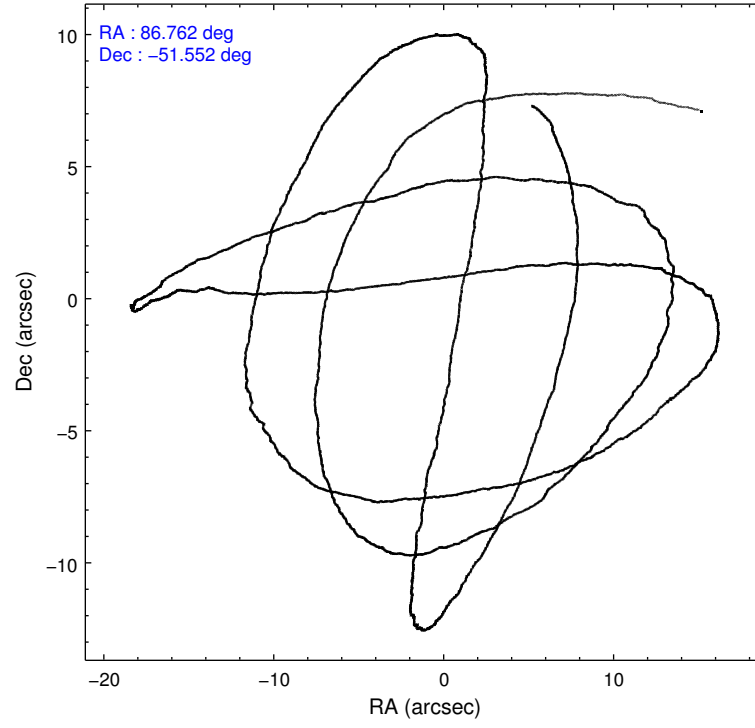
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	13586	13578	15372	19411	18060
rejected events	12133	12035	13688	11335	13358
rejected %	89%	88%	89%	58%	73%

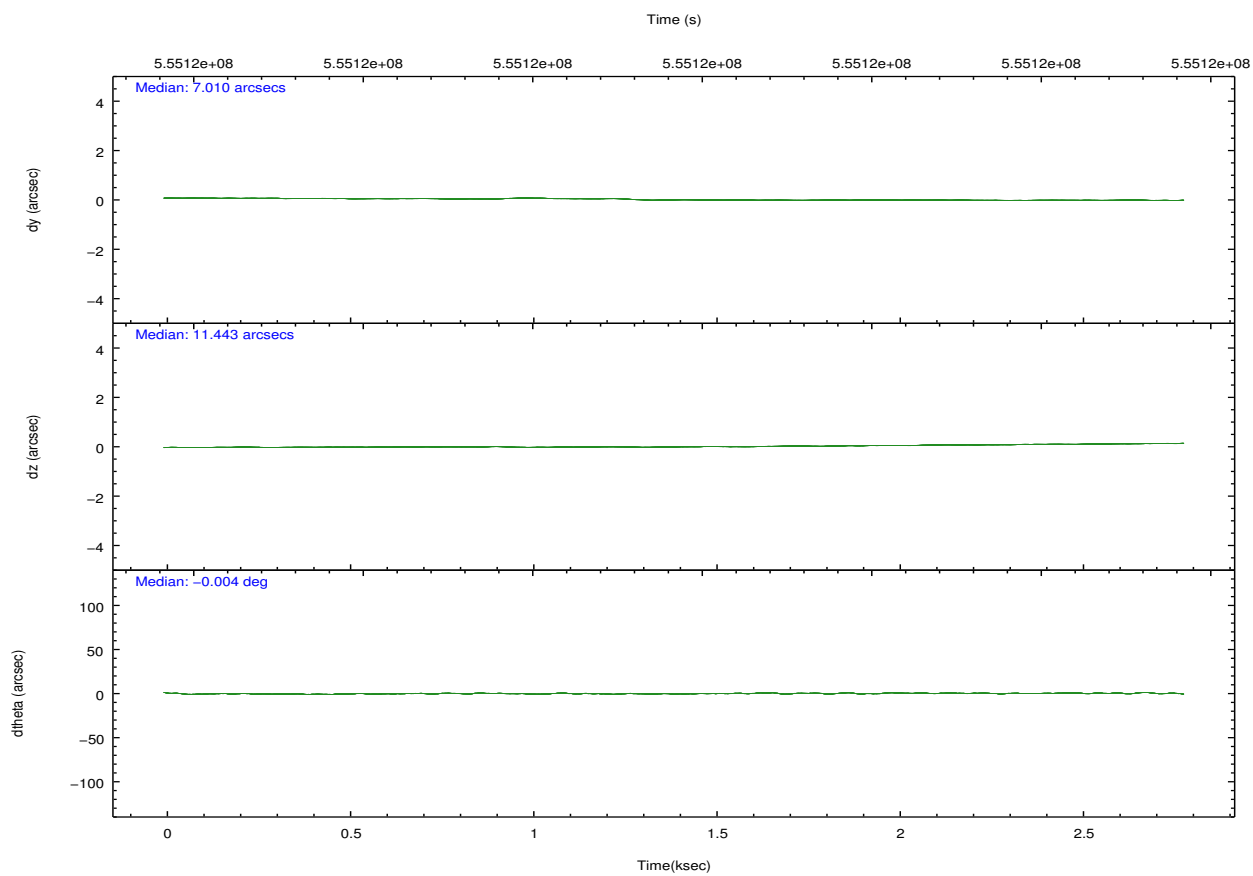
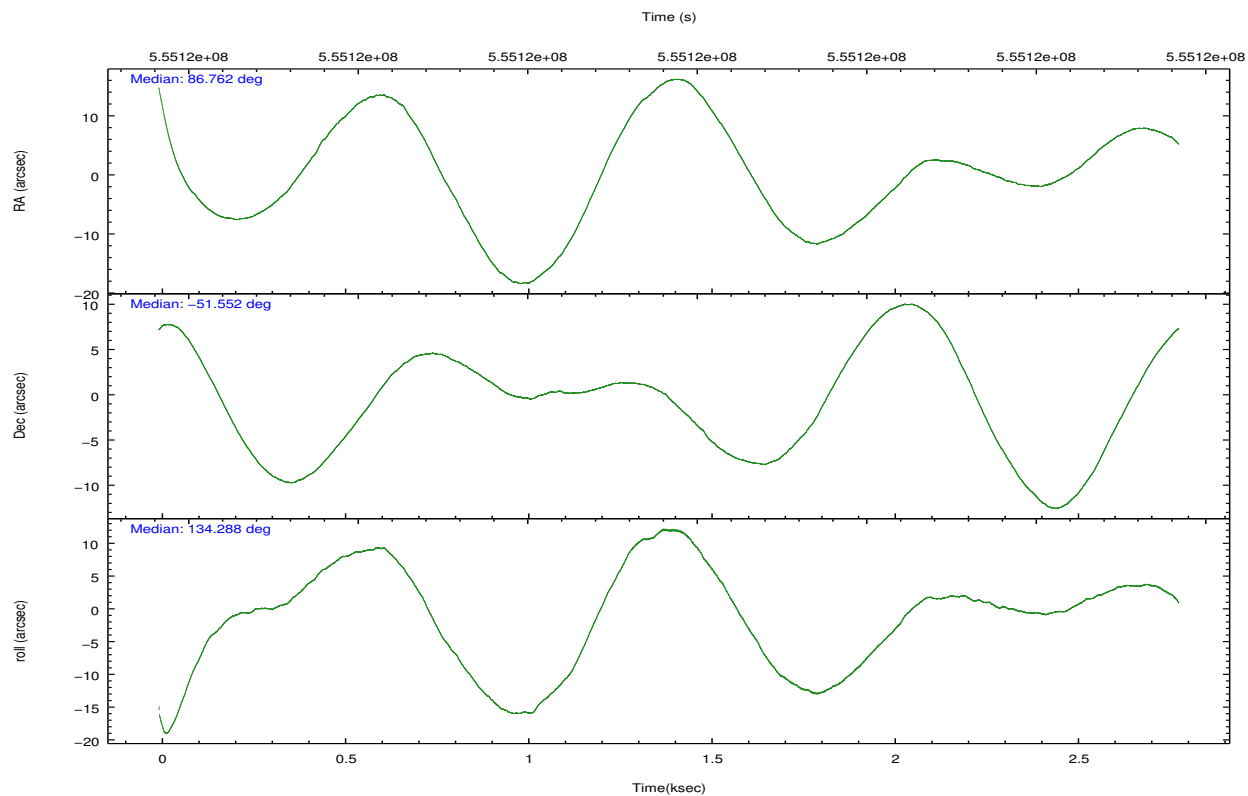
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	554	549	524	607	1312
	4%	4%	3%	3%	7%
grade 1 events	10	9	1	34	7
	0%	0%	0%	0%	0%
grade 2 events	309	347	440	1633	1117
	2%	2%	2%	8%	6%
grade 3 events	141	173	155	614	505
	1%	1%	1%	3%	2%
grade 4 events	151	168	172	592	499
	1%	1%	1%	3%	2%
grade 5 events	590	695	705	1795	993
	4%	5%	4%	9%	5%
grade 6 events	299	309	394	4639	1272
	2%	2%	2%	23%	7%
grade 7 events	11532	11328	12981	9497	12355
	84%	83%	84%	48%	68%

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	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	86.803976	86.76151472231749	CCD I2 on	O2	Y
[deg] Pointing Dec	-51.559388	-51.55245659572294	CCD I3 on	O1	Y
[deg] Pointing Roll	134.171354	134.2945941170373	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)	555119214.184000	555118107.67269	CCD S5 on	N	N
Observation start date	2015-08-04T23:45:46	2015-08-04T23:28:27	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	555121814.184000	555123288.02298	On-chip summing requested	N	N
Observation end date	2015-08-05T00:29:06	2015-08-05T00:54:48	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



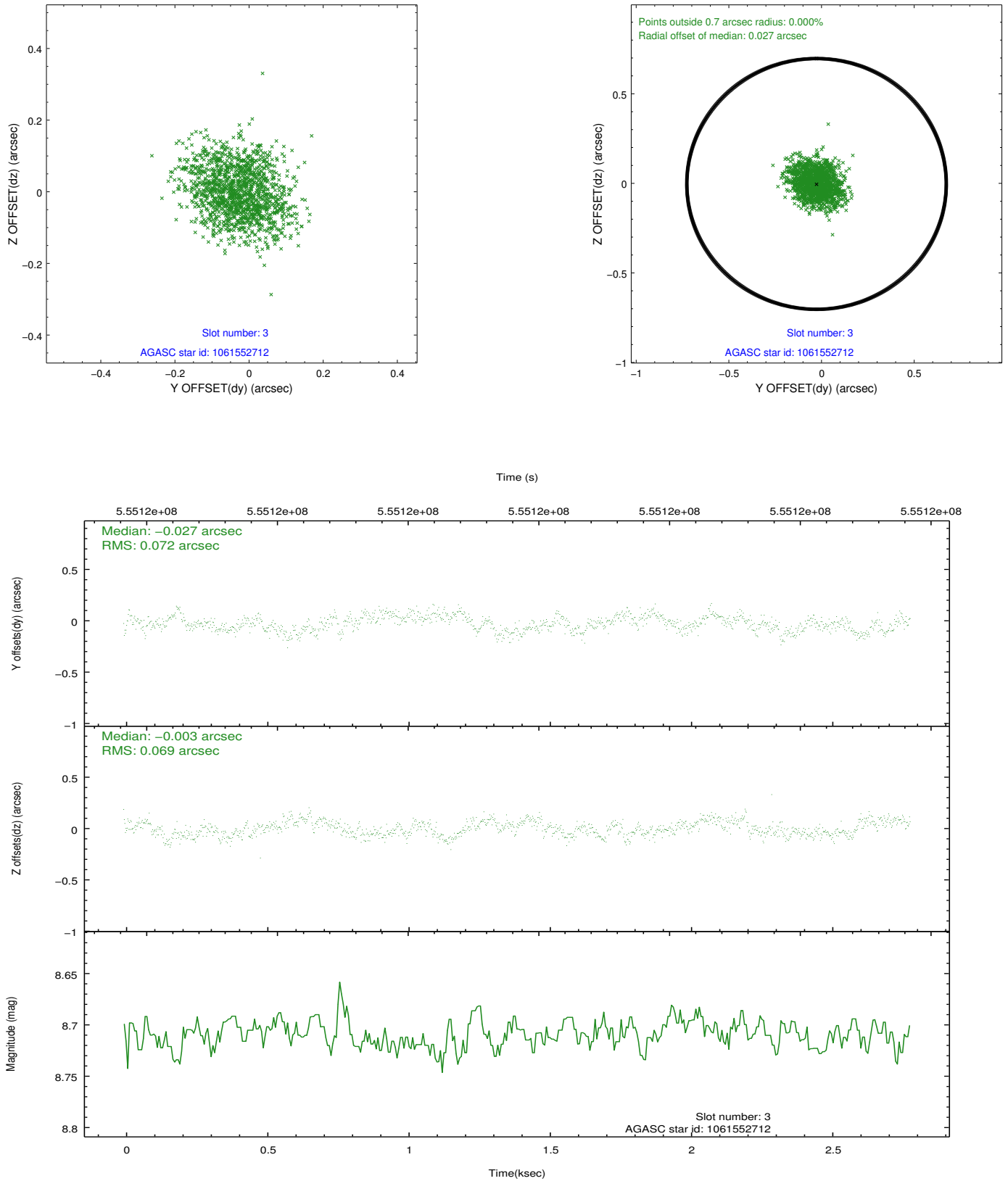


Slot Statistics

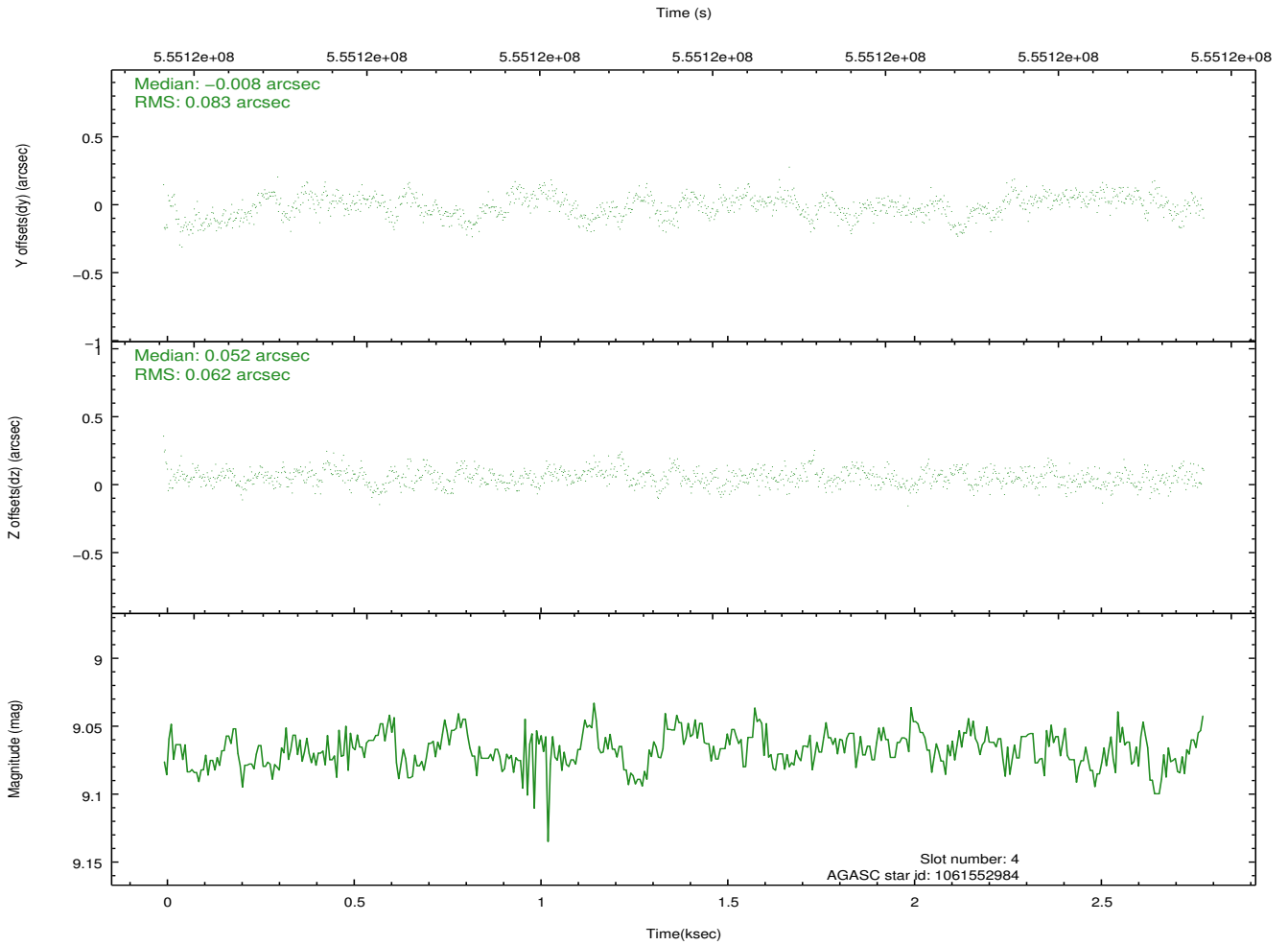
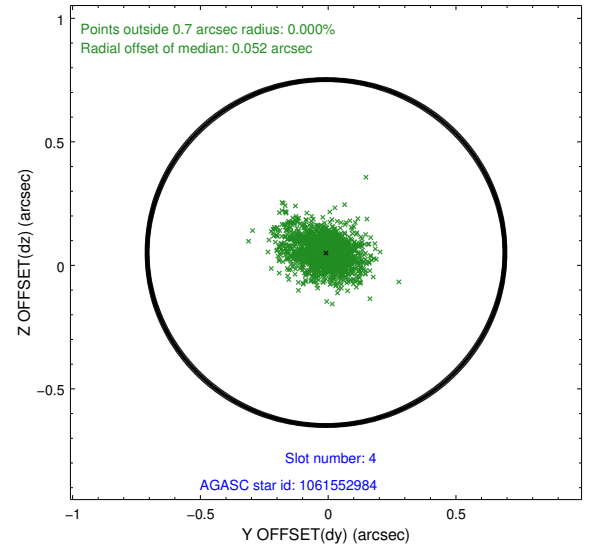
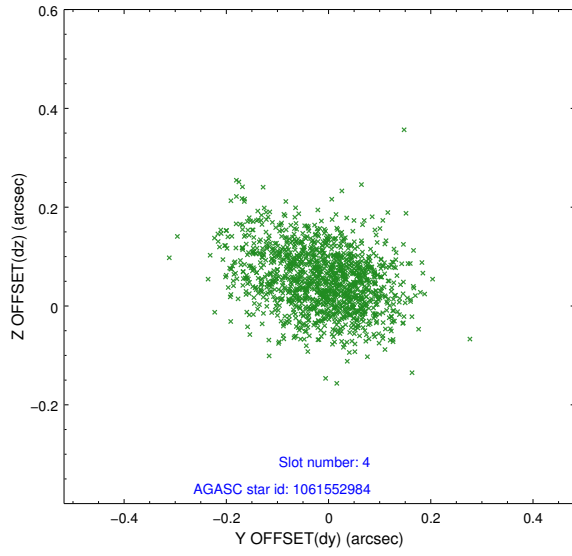
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.12	679	-0.070	-0.023	0.007	0.012	0.000000	0.000000	-759.84	-1732.73
1	FID		ACIS-S-4	7.23	679	0.182	0.040	0.006	0.011	0.000000	0.000000	2152.63	173.45
2	FID		ACIS-S-5	7.25	679	-0.144	-0.008	0.007	0.012	0.000000	0.000000	-1809.80	169.67
3	GUIDE	used	1061552712	8.71	1359	-0.027	-0.003	0.108	0.167	86.693864	-50.854729	1995.10	-1587.85
4	GUIDE	used	1061552984	9.07	1359	-0.008	0.052	0.107	0.183	86.714676	-50.755350	2220.16	-1871.26
5	GUIDE	used	1061557952	9.12	1359	-0.092	-0.016	0.099	0.168	86.320636	-51.749592	259.21	1251.03
6	GUIDE	used	1061559504	8.74	1358	0.095	-0.244	0.118	0.185	86.617999	-52.324036	-1688.82	2212.63
7	GUIDE	used	1061686840	8.89	1357	0.039	0.207	0.099	0.163	88.232547	-51.526079	-2165.94	-2355.04

2.4 Star Slots

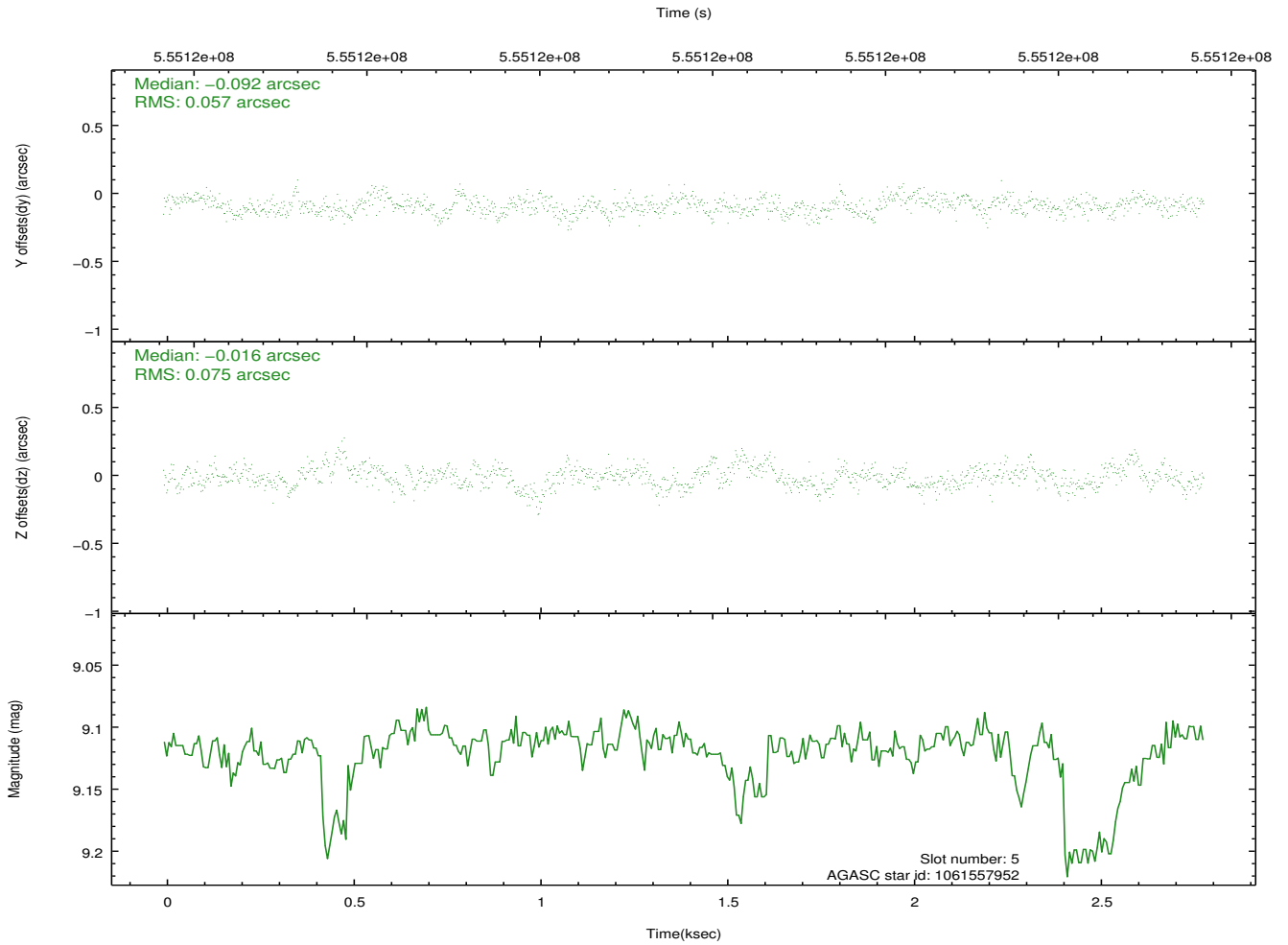
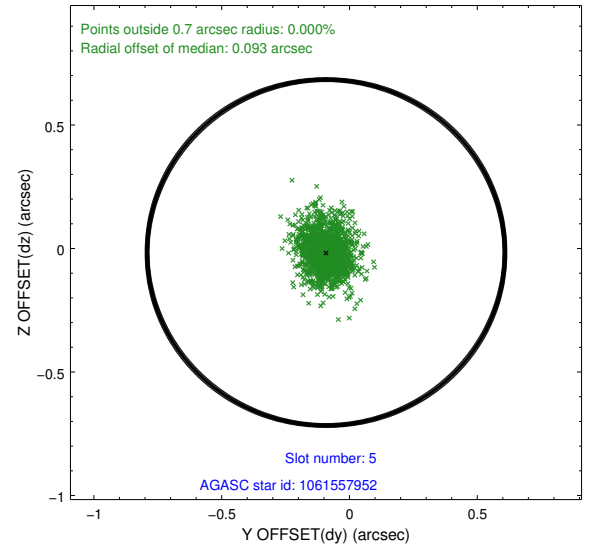
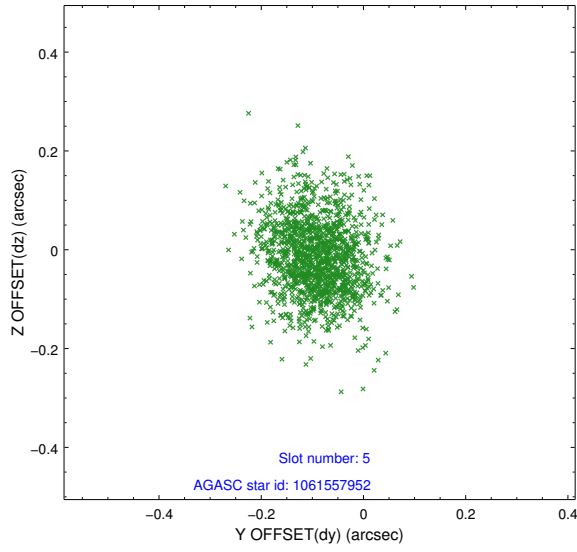
2.4.1 Slot 3



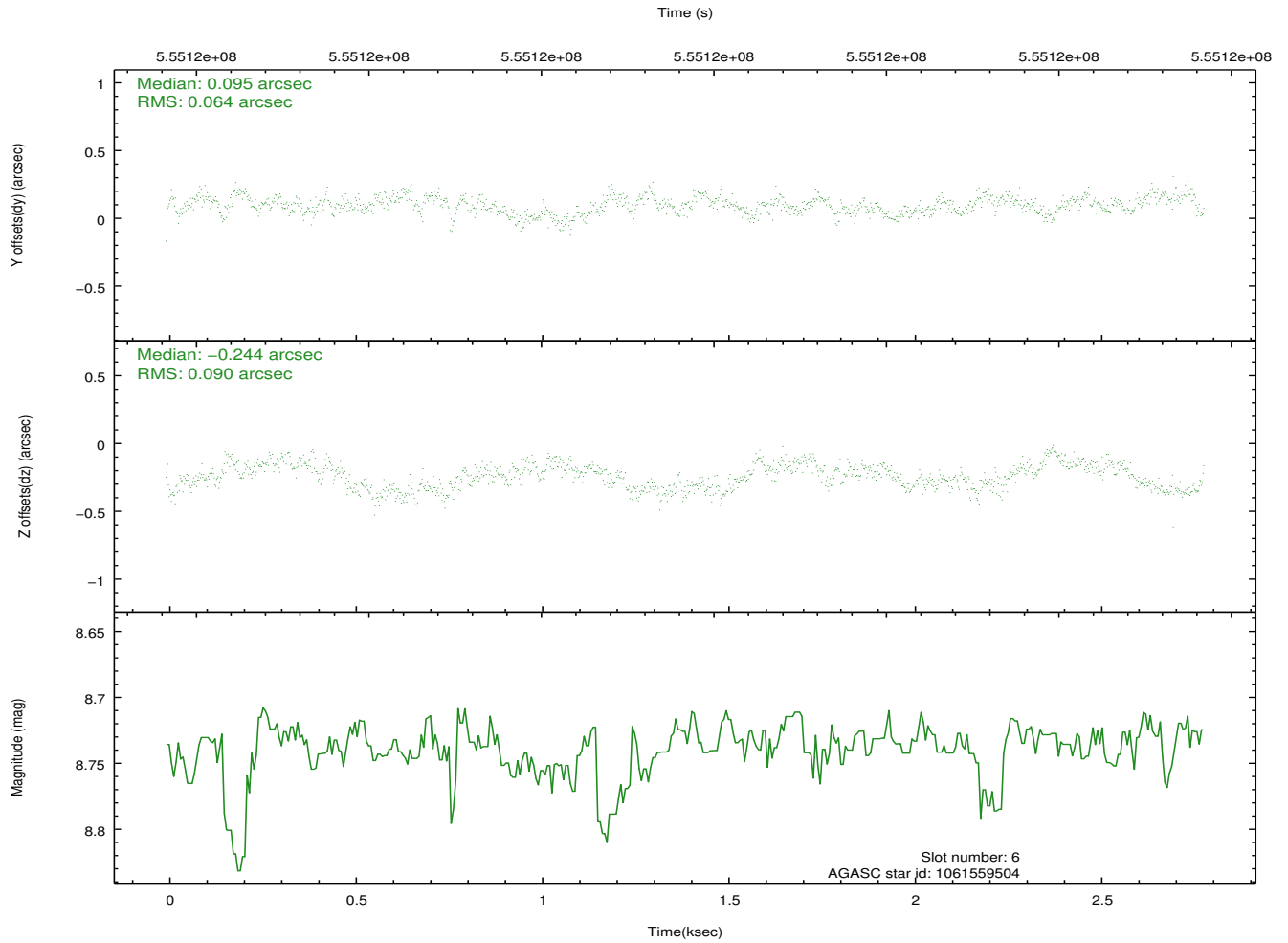
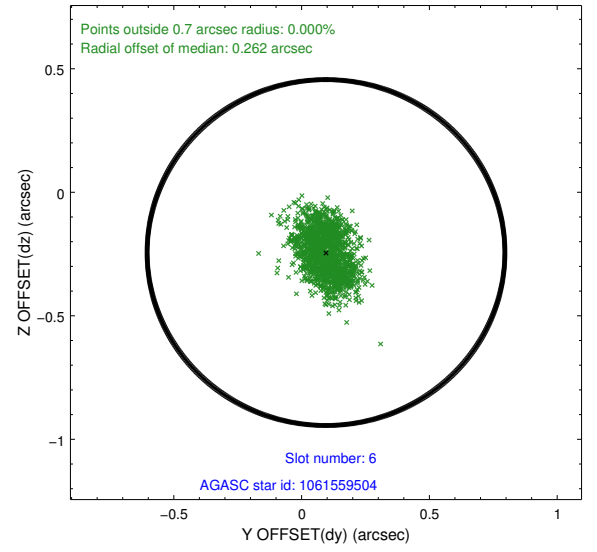
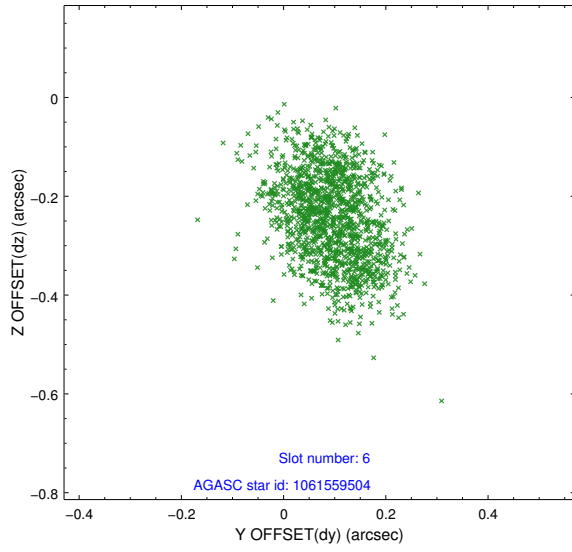
2.4.2 Slot 4



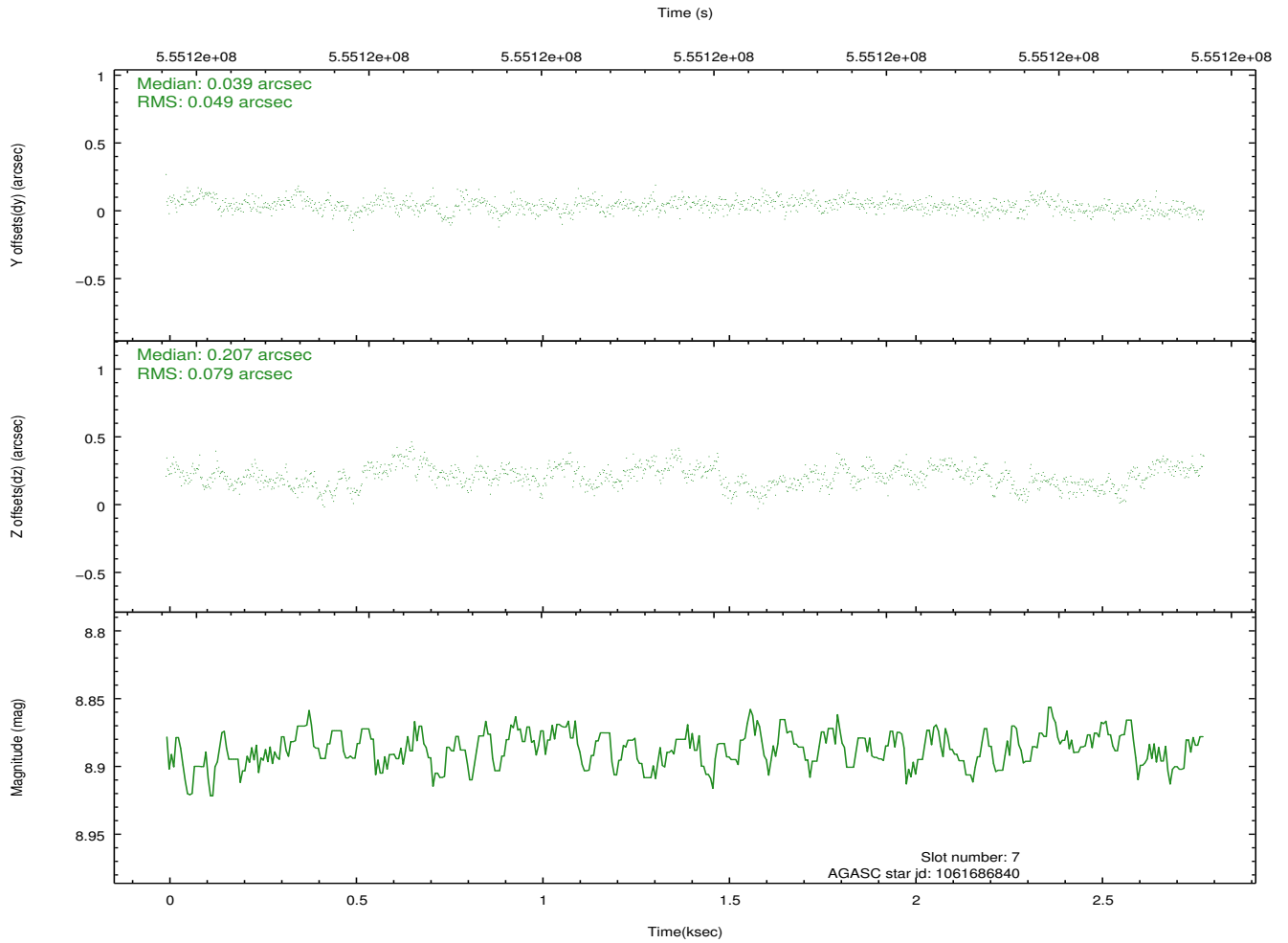
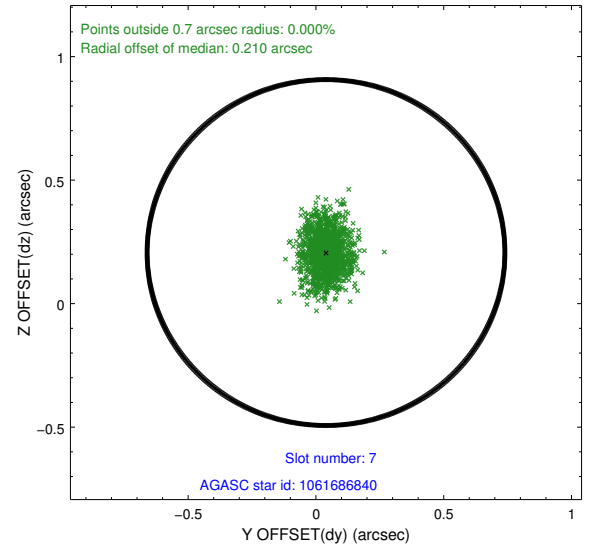
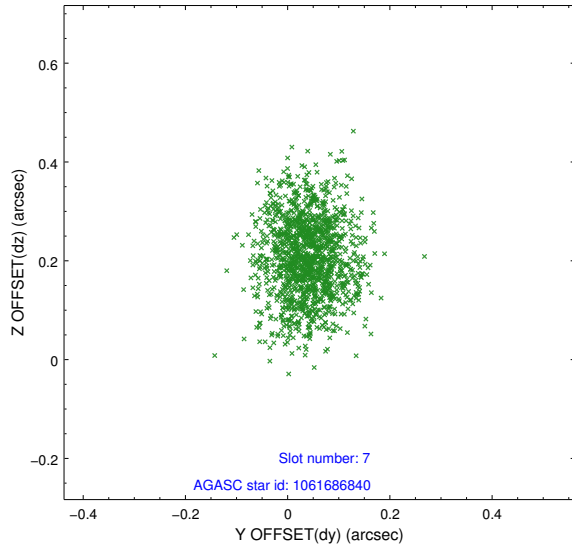
2.4.3 Slot 5



2.4.4 Slot 6

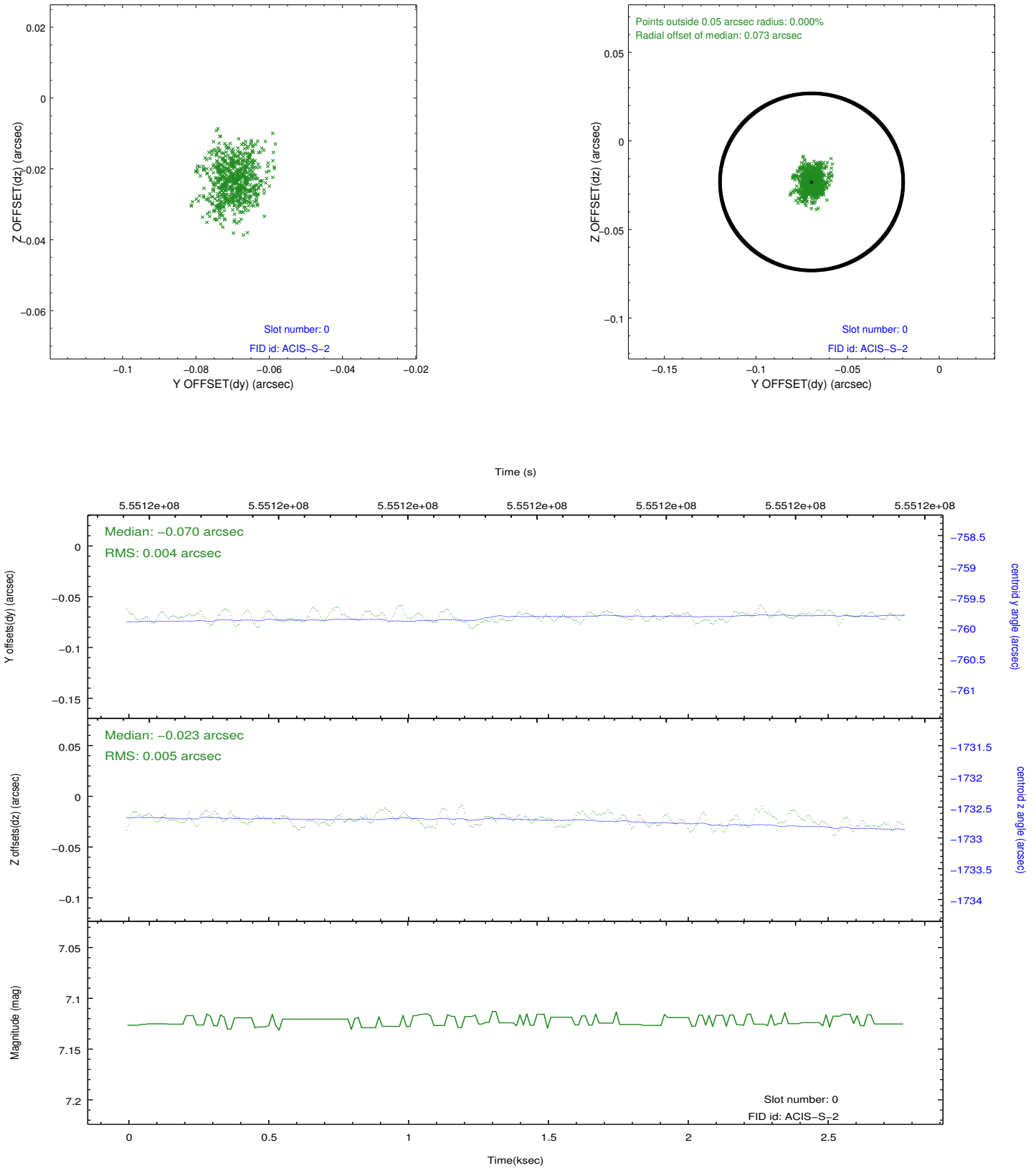


2.4.5 Slot 7

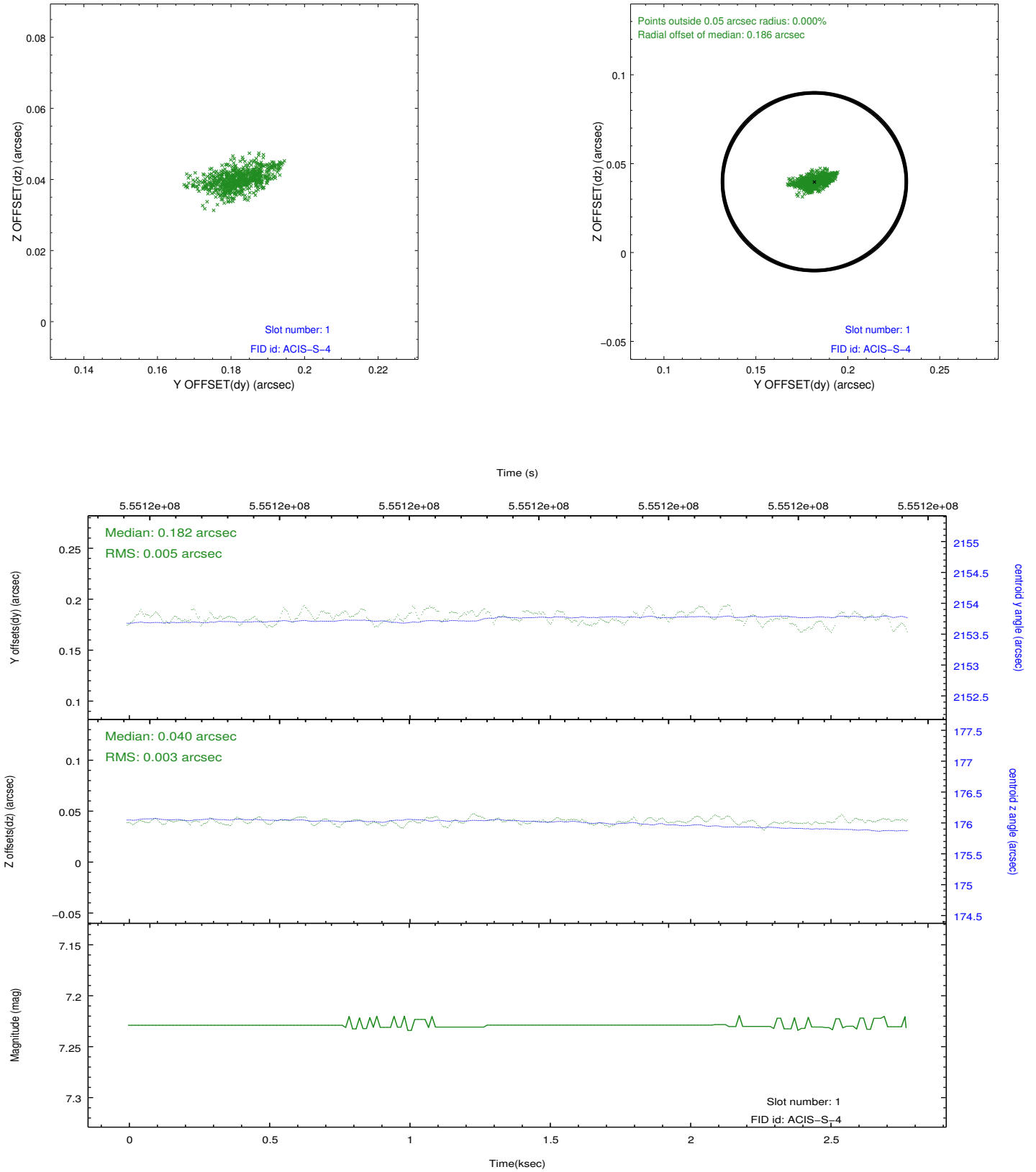


2.5 FID Slots

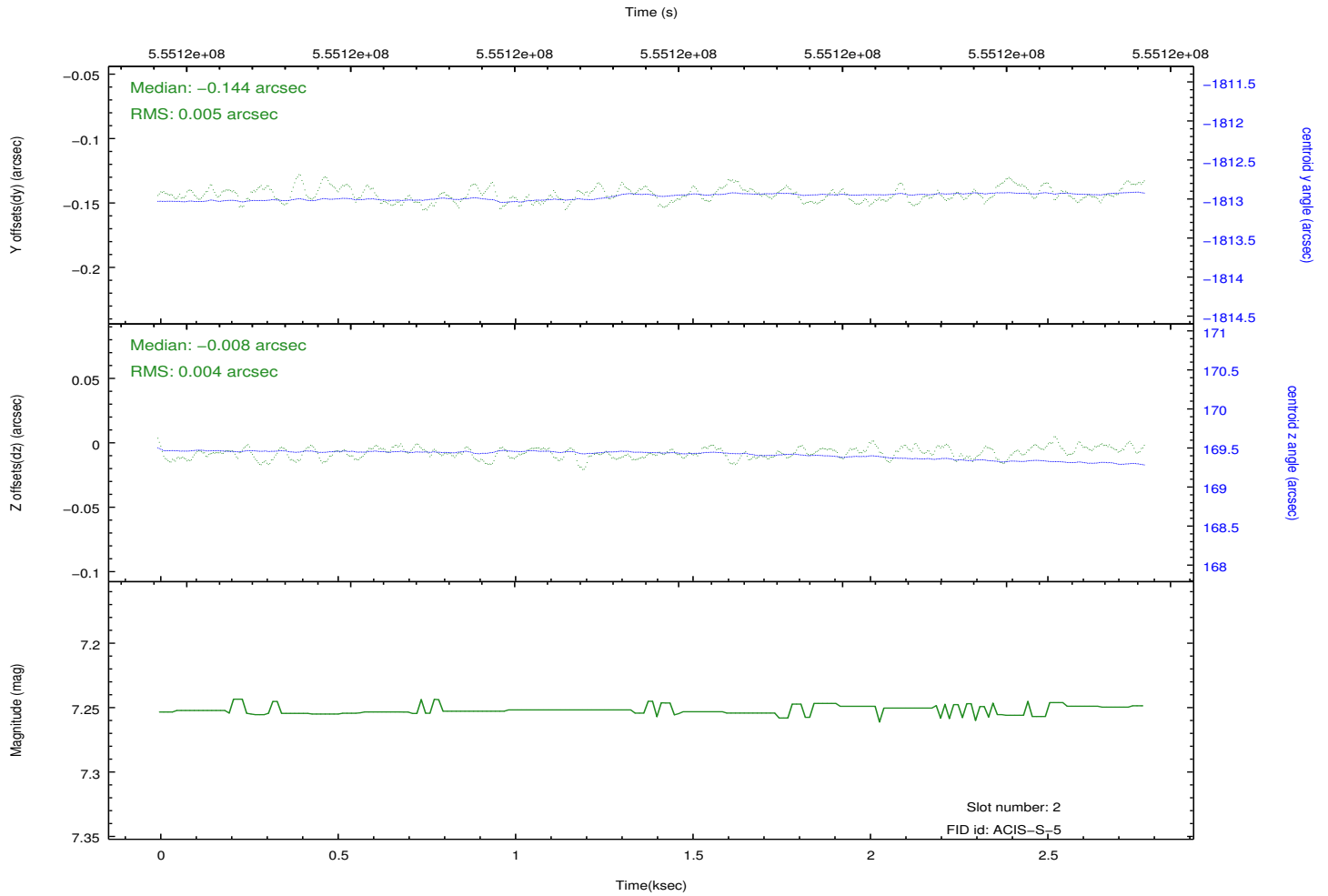
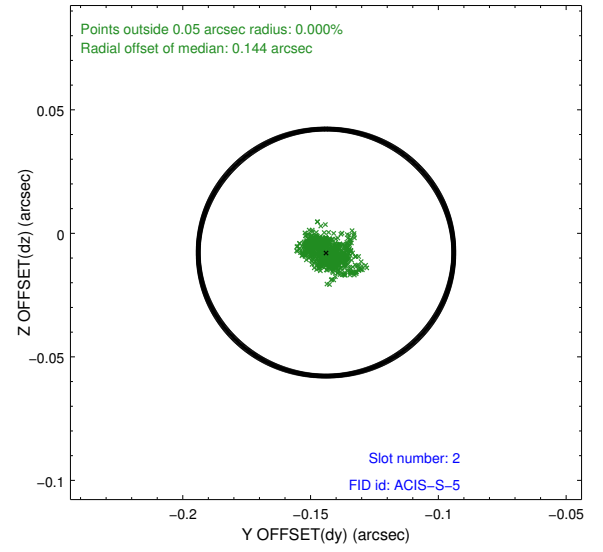
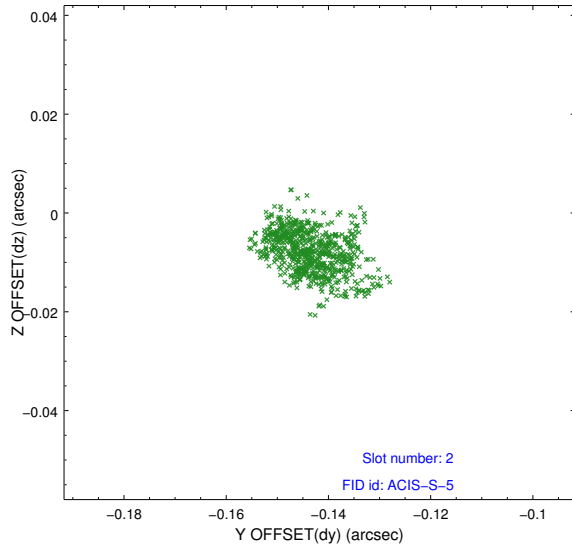
2.5.1 Slot 0



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)	2015.08.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.6629000205994

A.2 Comments