

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 21203 - L2 Version 1
Chandra X-Ray Center

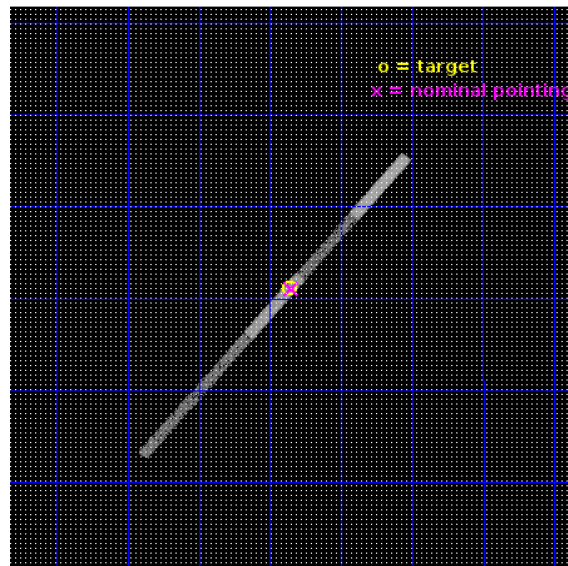
L2 Processing Date : May 24 2019

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1 Front

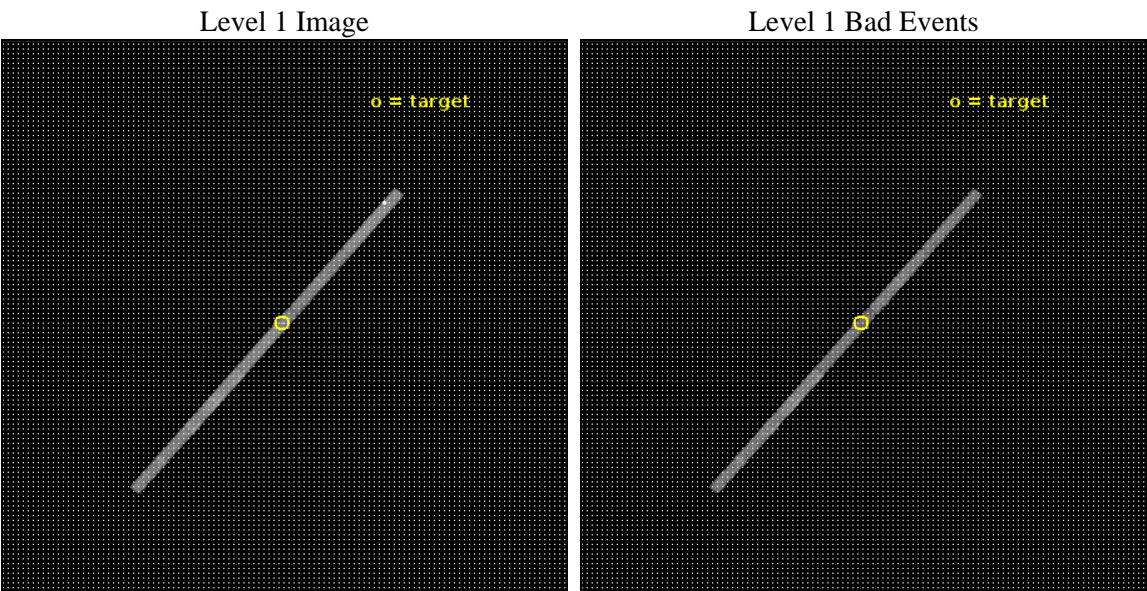
seq_num	402036	Sequence number
obs_id	21203	Observation id
title	Following a black hole X-ray transient through the transition into quiescence	Proposal title
observer	Elena Gallo	Principal investigator
object	MAXI J1820+070	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	275.09125	Observer's specified target RA [deg]
dec_targ	7.185361	Observer's specified target Dec [deg]
ra_nom	275.08711476846	Nominal RA [deg]
dec_nom	7.184592586102	Nominal Dec [deg]
roll_nom	130.32079163303	Nominal Roll [deg]
revision	1	Processing version of data
ontime	12077.100822687	Sum of GTIs [s]
livetime	11408.251343896	Livetime [s]
ontime5	12077.100822687	Sum of GTIs [s]
ontime6	12077.100822687	Sum of GTIs [s]
ontime7	12077.100822687	Sum of GTIs [s]
ontime8	12077.100822687	Sum of GTIs [s]
ontime9	12077.100822687	Sum of GTIs [s]
l2events	22115	Number of level 2 events



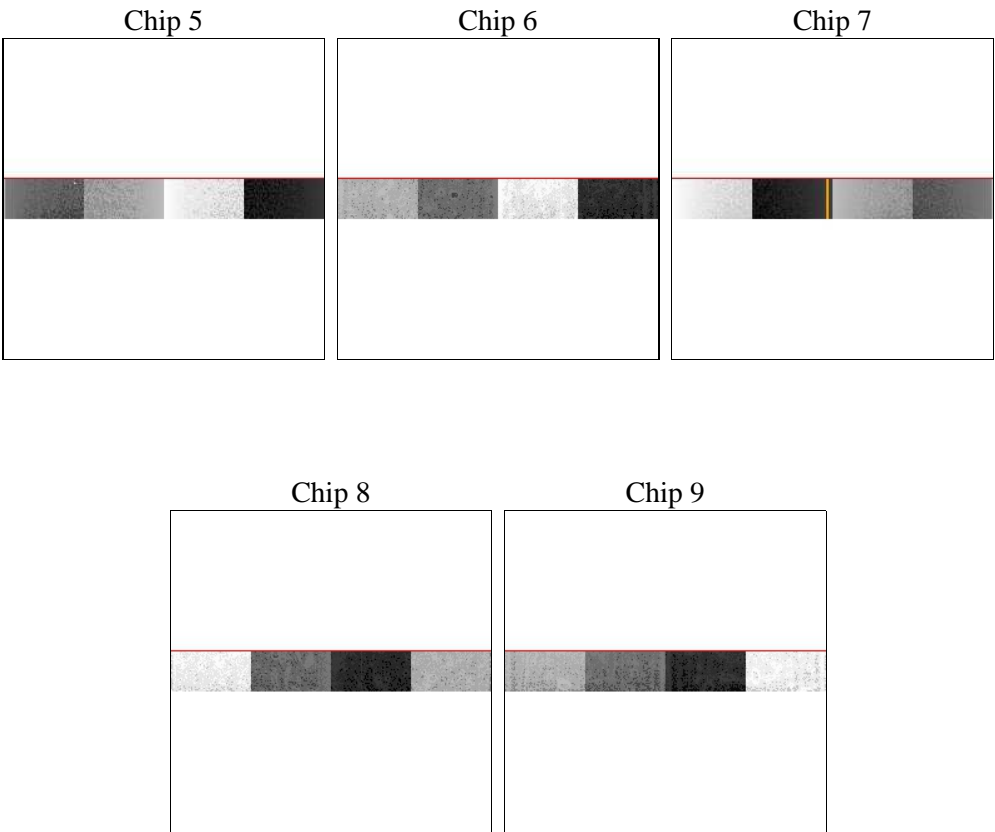
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



Chip 8



Chip 9



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	12000.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	12077.100822687	Sum of GTIs [s]
caldsver	4.8.3	 	ontime5	12077.100822687	Sum of GTIs [s]
date	2019-05-24T21:19:31	Date and time of file creation	ontime6	12077.100822687	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	12077.100822687	Sum of GTIs [s]
			ontime8	12077.100822687	Sum of GTIs [s]
			ontime9	12077.100822687	Sum of GTIs [s]
			l1events	103807	Number of level 1 events

2.1.4 Events

	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	36306	13991	17324	22058	14128
rejected events	10399	12351	9069	16541	12359
rejected %	28%	88%	52%	74%	87%

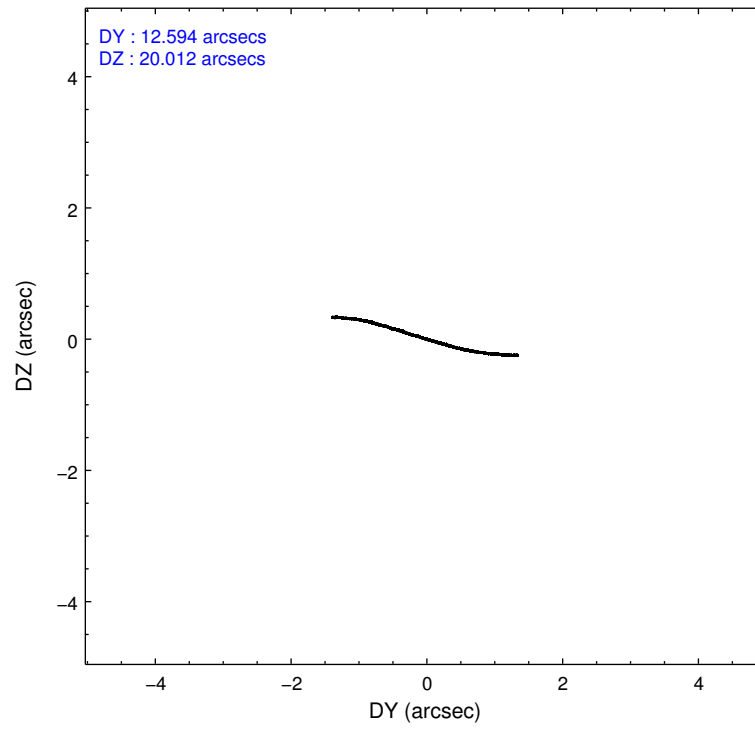
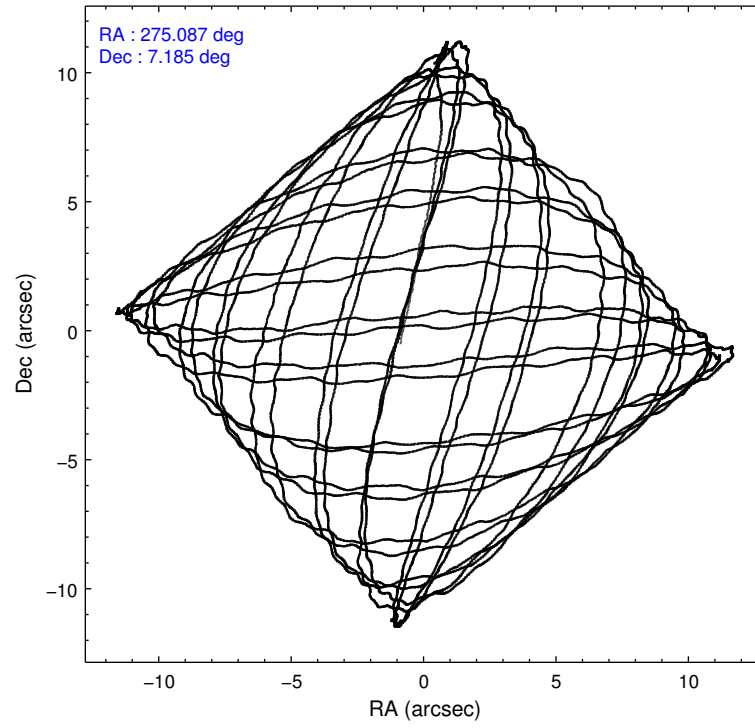
	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	15377	472	906	1378	533
	42%	3%	5%	6%	3%
grade 1 events	73	6	31	11	6
	0%	0%	0%	0%	0%
grade 2 events	4404	316	1909	1100	342
	12%	2%	11%	4%	2%
grade 3 events	628	267	905	678	280
	1%	1%	5%	3%	1%
grade 4 events	652	272	913	629	271
	1%	1%	5%	2%	1%
grade 5 events	1815	579	1759	877	659
	4%	4%	10%	3%	4%
grade 6 events	4848	313	3622	1732	343
	13%	2%	20%	7%	2%
grade 7 events	8509	11766	7279	15653	11694
	23%	84%	42%	70%	82%

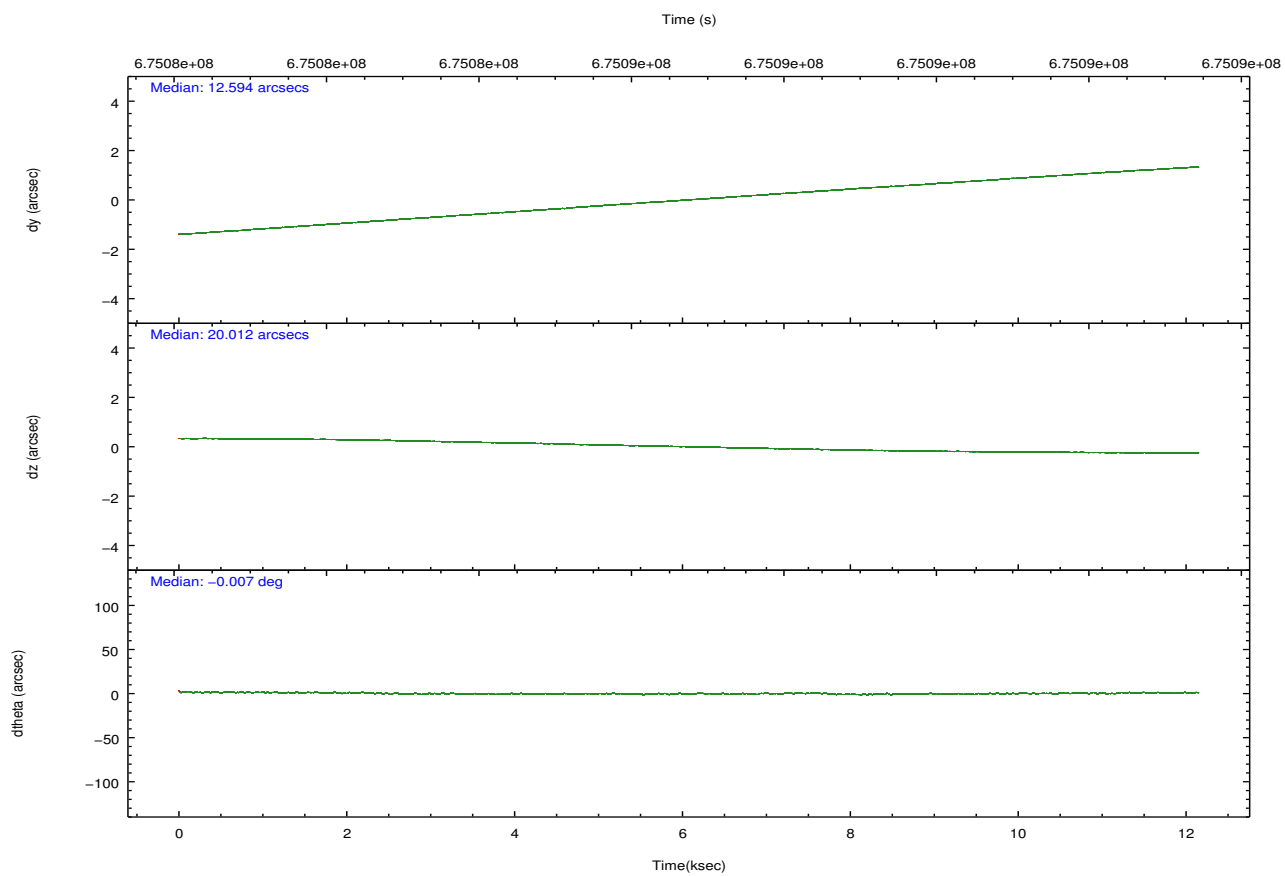
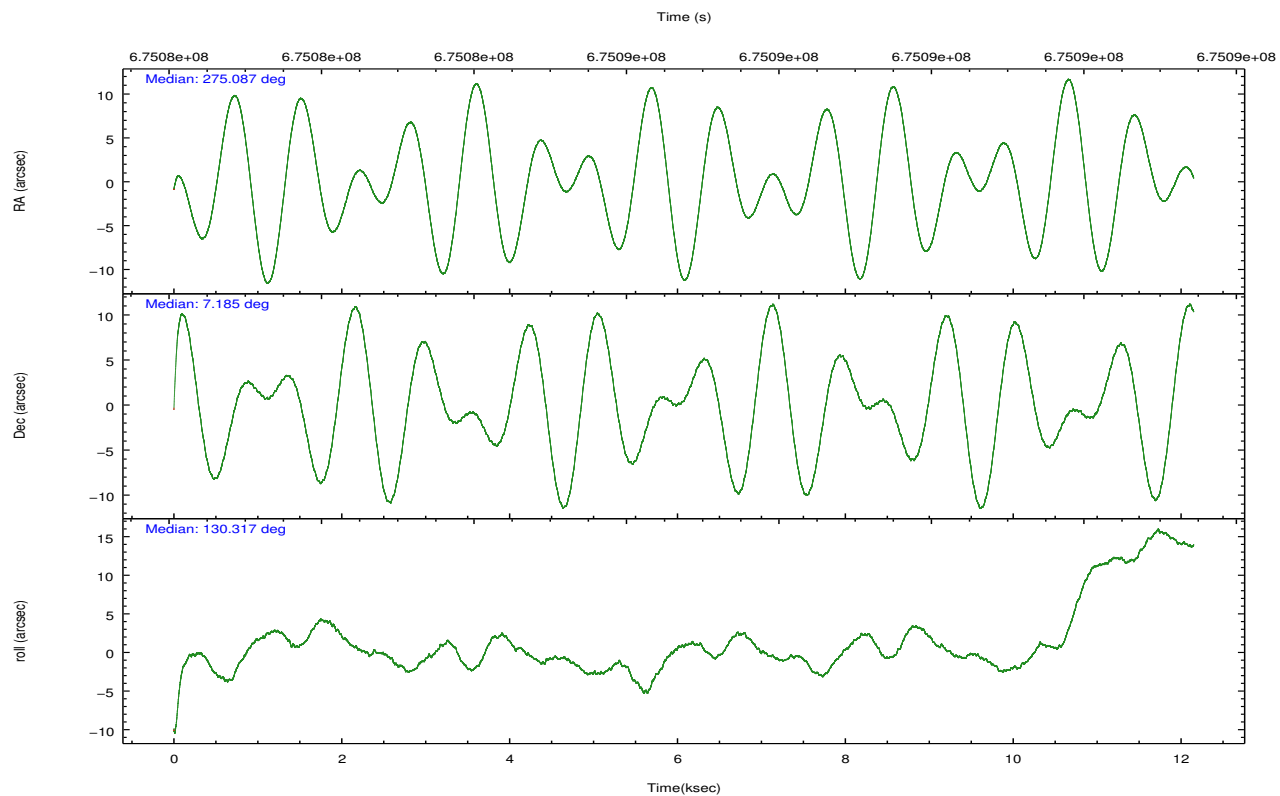
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-56789	ACIS-56789
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	275.113294	275.087114768461
[deg] Pointing Dec	7.175670	7.184592586101981
[deg] Pointing Roll	130.160900	130.3207916330323
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1400660498719
[mm] SIM translation stage offset	0	0.00754346686406393
[s] Observation start time (MET)	675080826.184000	675079808.4157799
Observation start date	2019-05-24T10:25:57	2019-05-24T10:10:08
[s] Observation end time (MET)	675092826.184000	675093838.10412
Observation end date	2019-05-24T13:45:57	2019-05-24T14:03:58
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	N	N
CCD I3 on	N	N
CCD S0 on	N	N
CCD S1 on	O2	Y
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	O1	Y
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	CUSTOM	1/8
Subarray start row	449	449
Subarray row count	128	128
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	0.7

2.3 Aspect



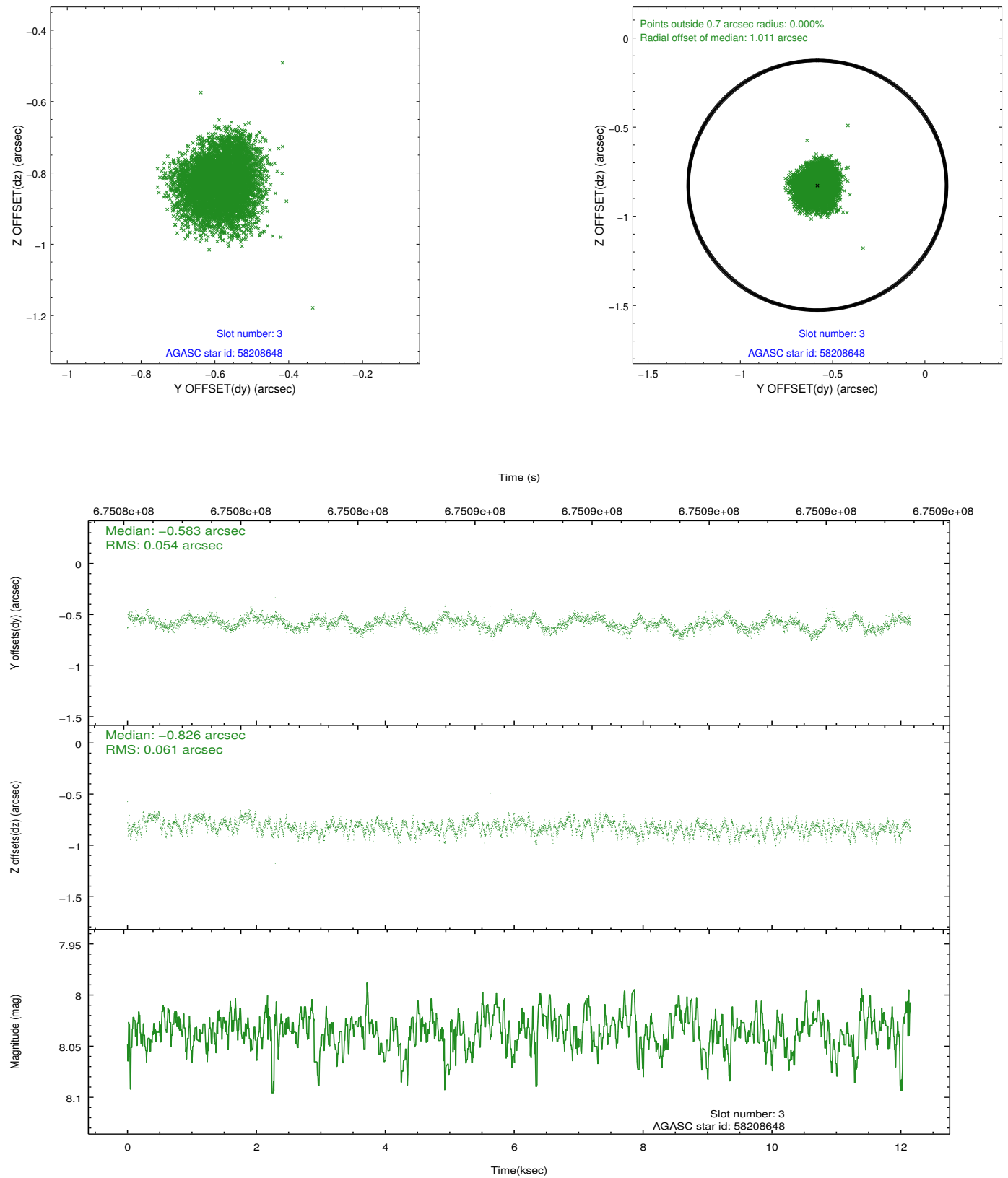


Slot Statistics

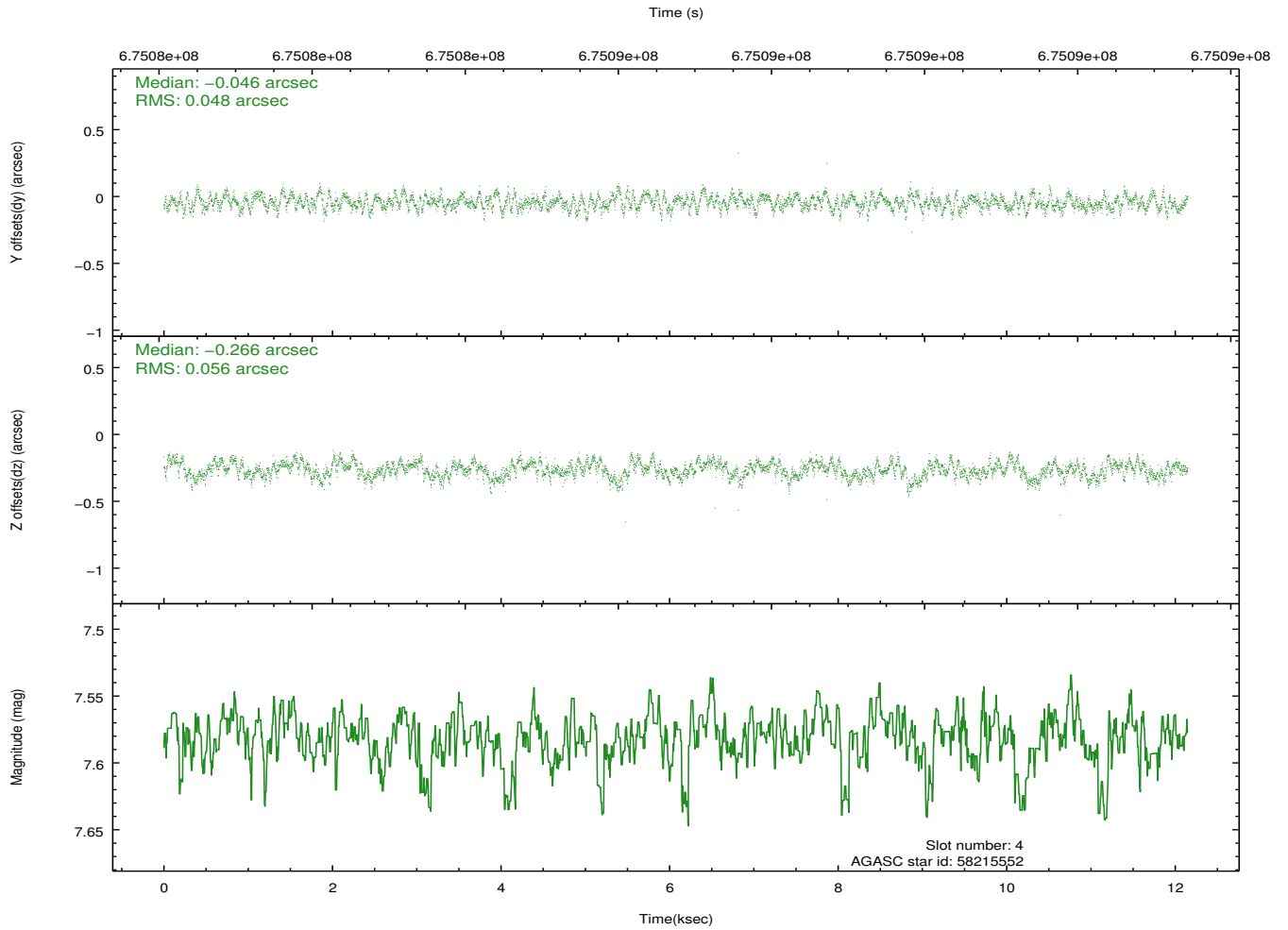
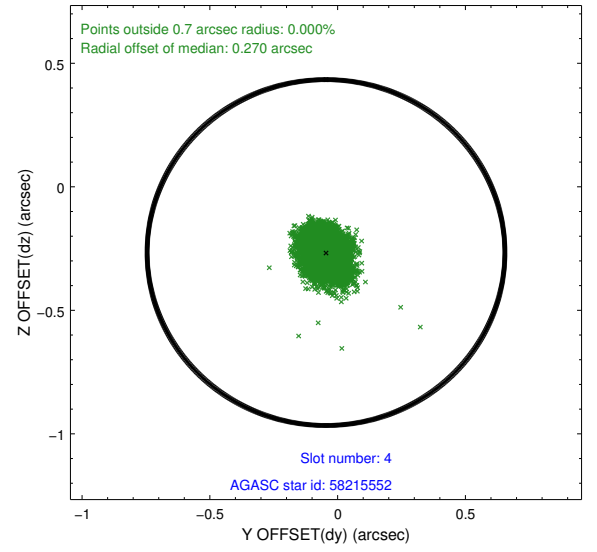
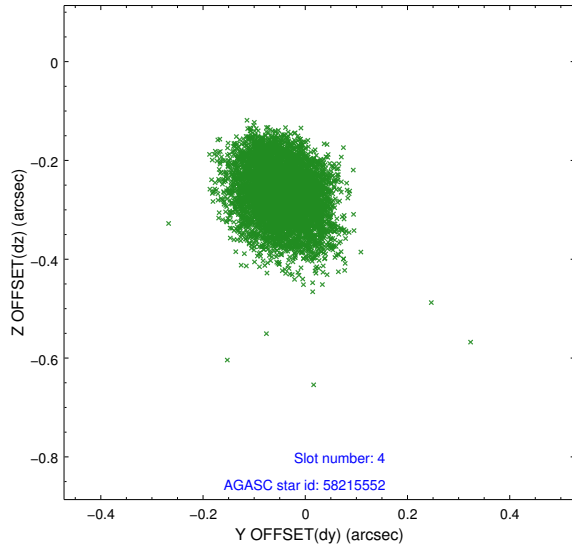
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	6.97	2964	1.000	-0.263	-0.120	0.036	0.049	0.000000	0.000000	-765.67	-1741
1	FID		ACIS-S-4	7.10	2964	1.000	0.669	0.156	0.058	0.086	0.000000	0.000000	2148.27	166
2	FID		ACIS-S-5	7.07	2964	1.000	-0.446	-0.027	0.071	0.090	0.000000	0.000000	-1818.26	160
3	GUIDE	used	58208648	8.04	5921	1.000	-0.583	-0.826	0.088	0.137	274.402649	7.152383	1574.28	1992
4	GUIDE	used	58215552	7.58	5926	1.000	-0.046	-0.266	0.079	0.123	275.048740	7.069088	-144.02	424
5	GUIDE	used	58338368	6.73	5927	1.000	0.122	0.502	0.090	0.147	275.704454	7.206741	-1274.72	-1685
6	GUIDE	used	132401928	7.33	5927	1.000	0.239	0.209	0.094	0.159	275.575114	7.548927	-34.55	-2124
7	GUIDE	used	58213856	8.37	5920	1.000	0.254	0.396	0.128	0.200	275.612553	7.226303	-1009.30	-1480

2.4 Star Slots

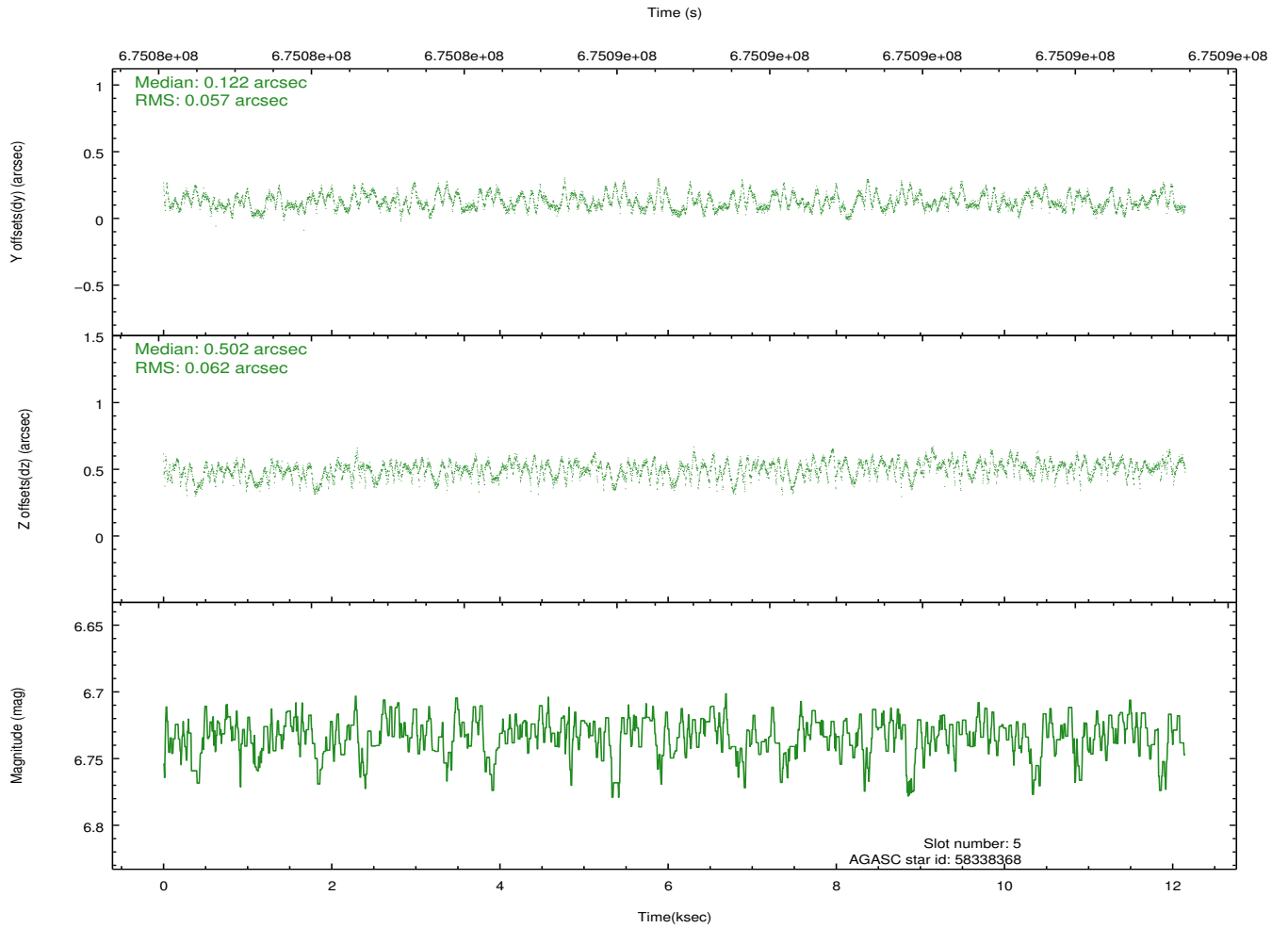
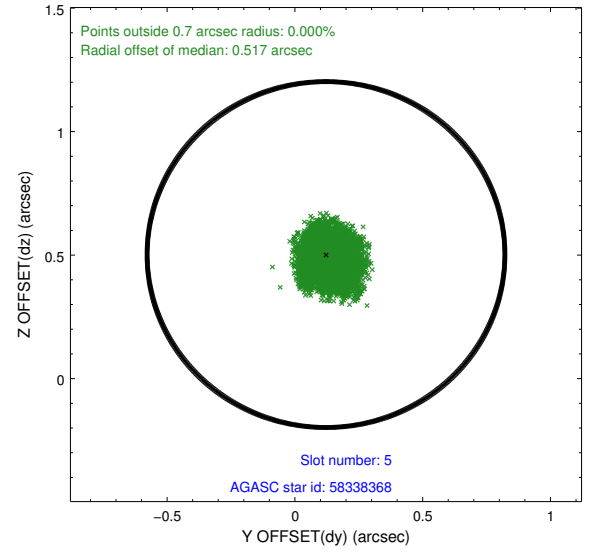
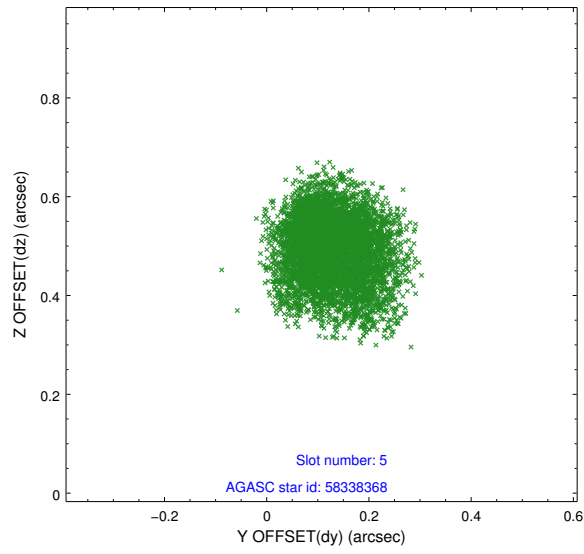
2.4.1 Slot 3



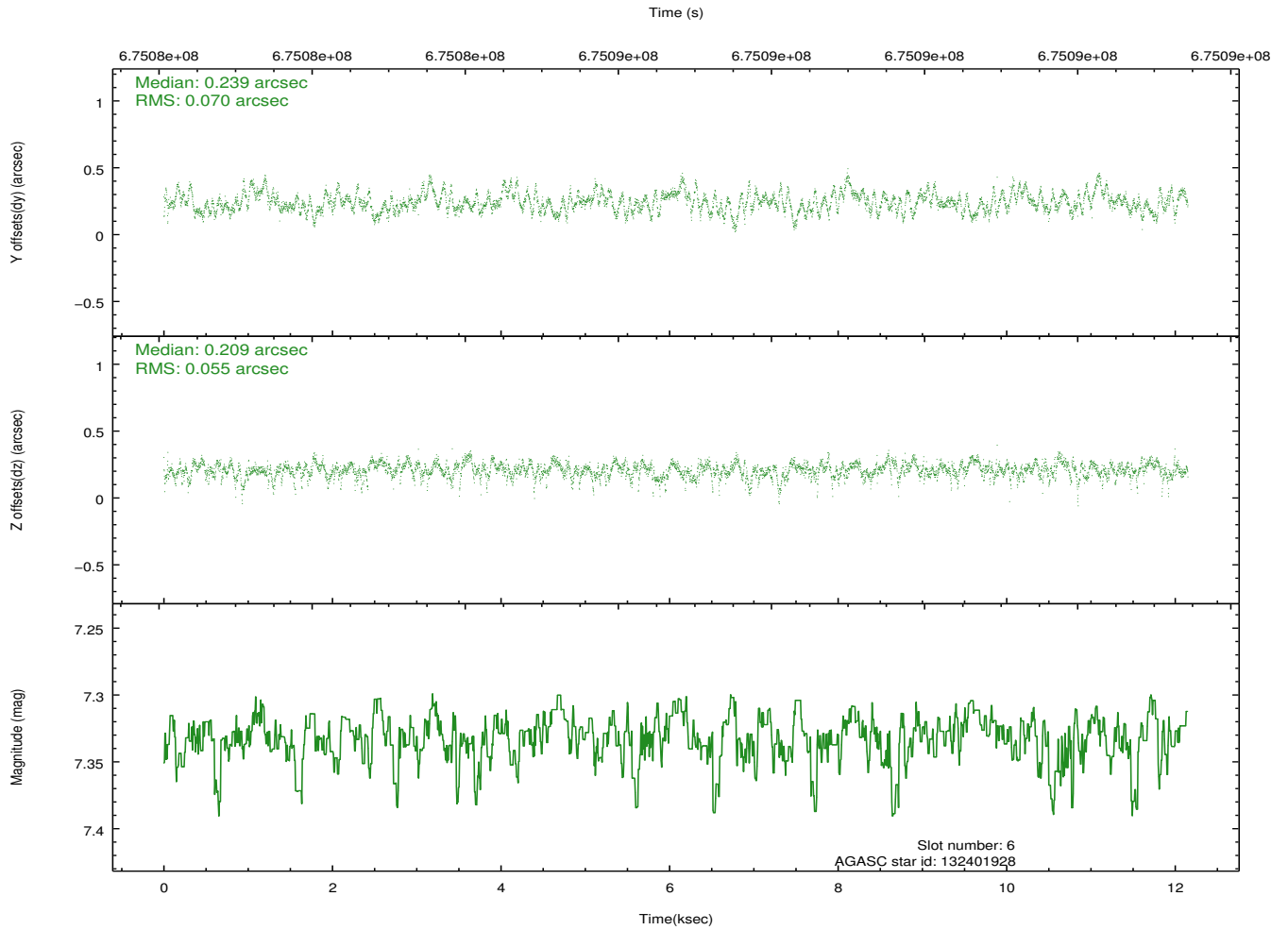
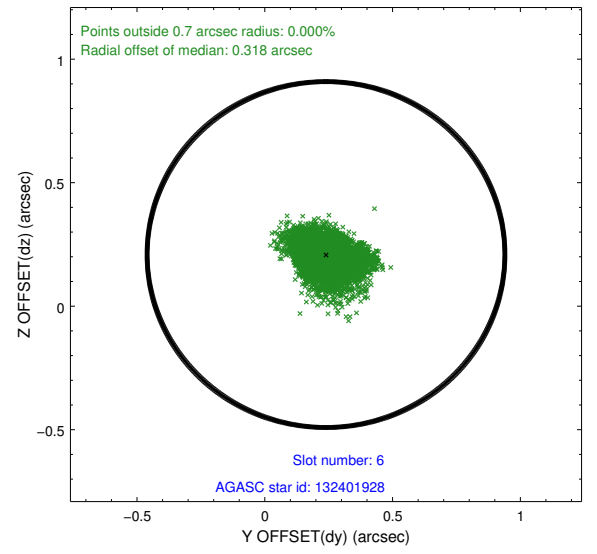
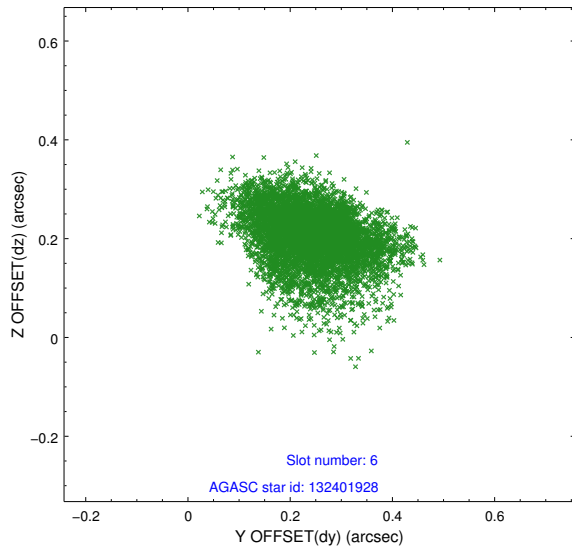
2.4.2 Slot 4



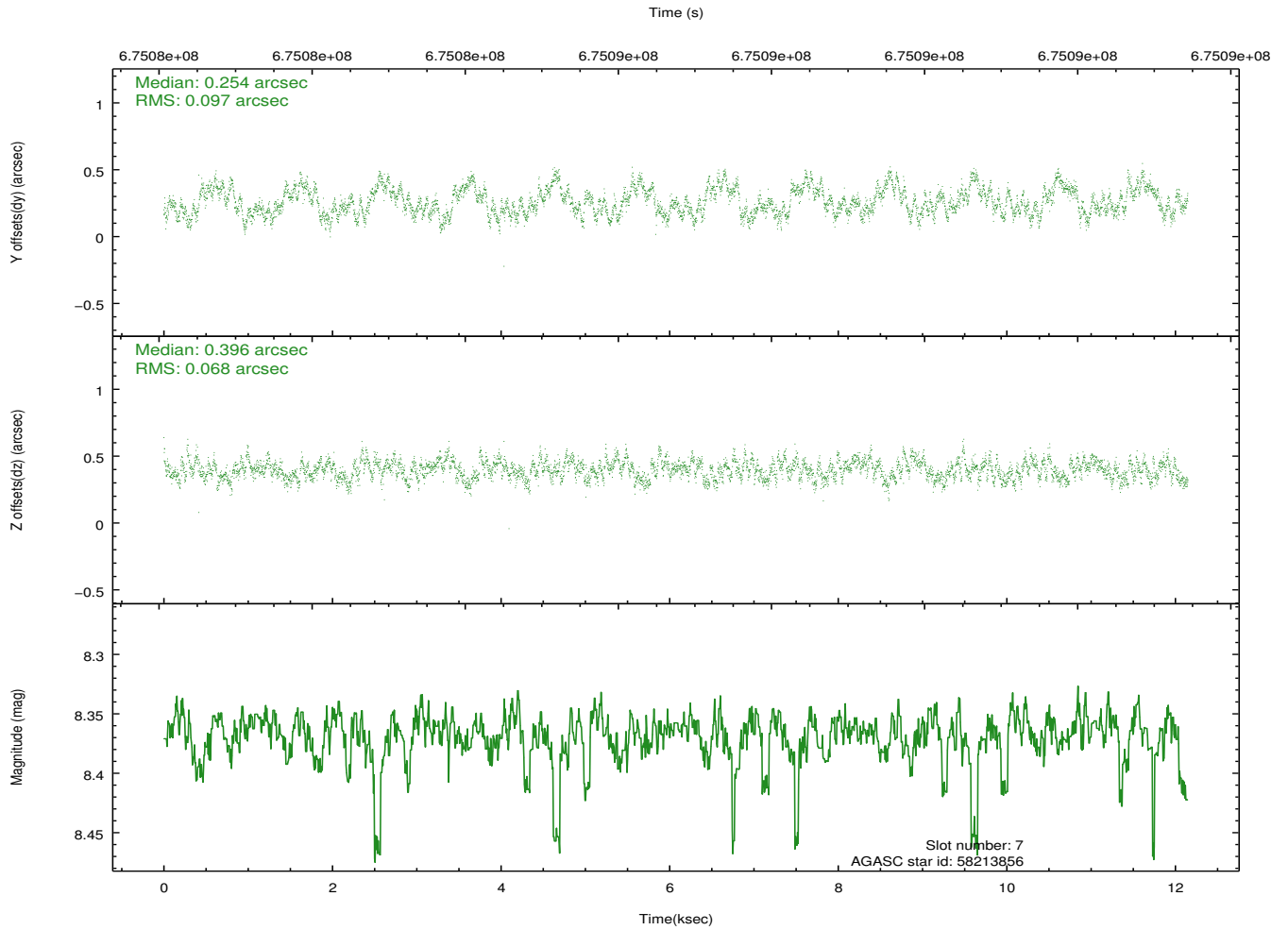
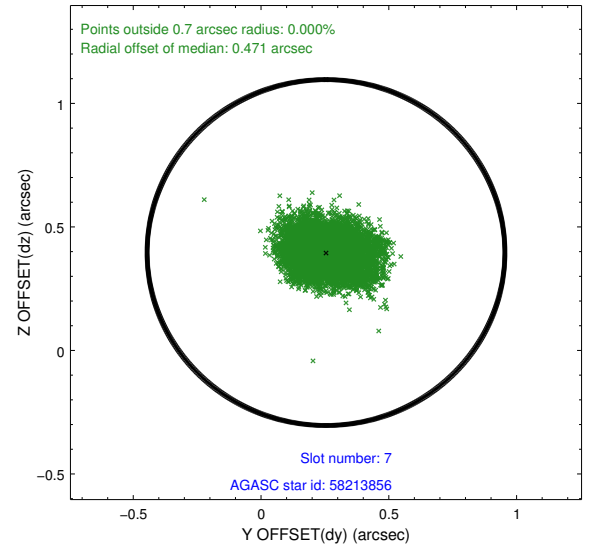
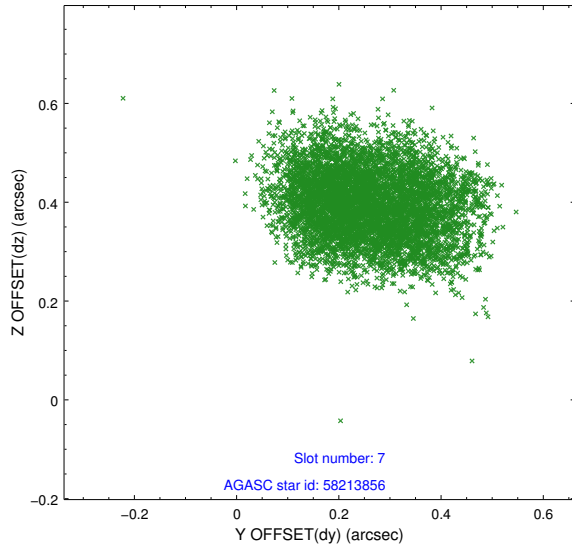
2.4.3 Slot 5



2.4.4 Slot 6

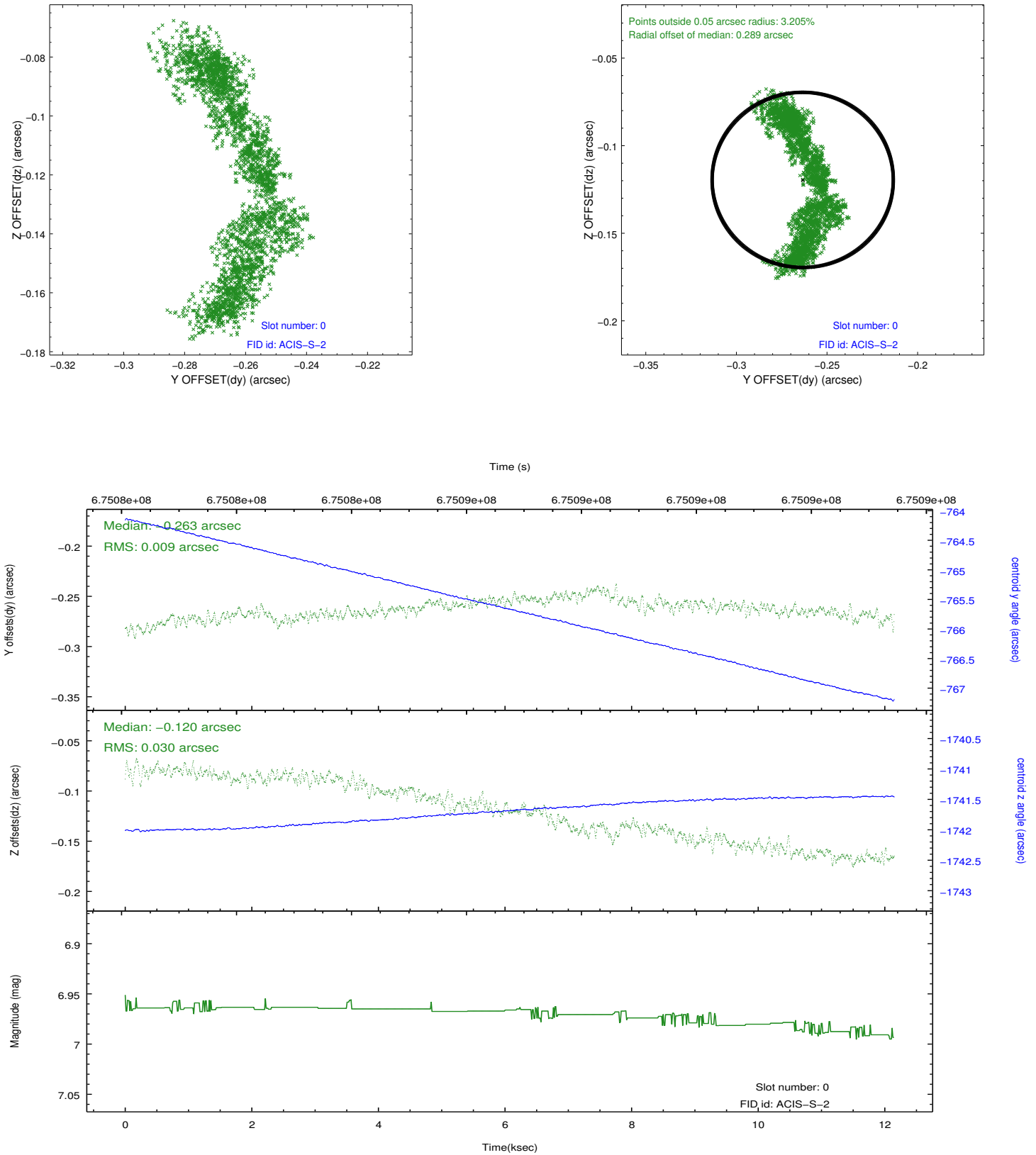


2.4.5 Slot 7

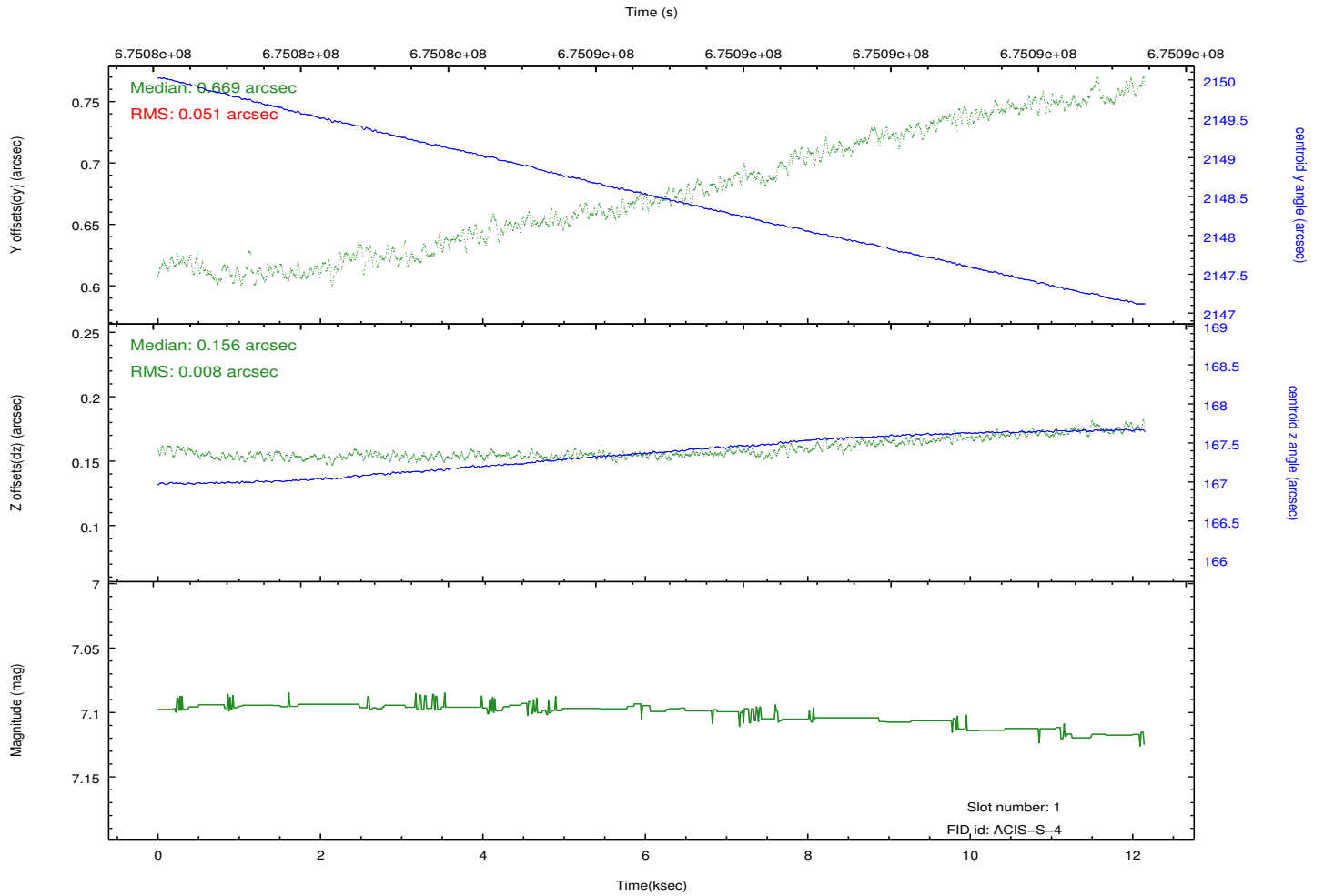
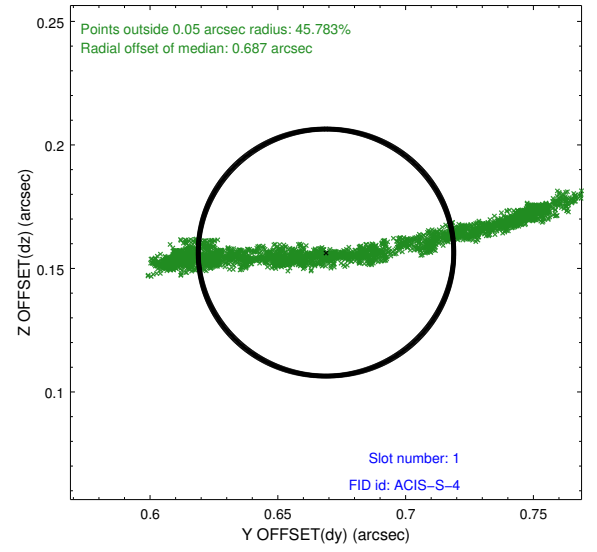
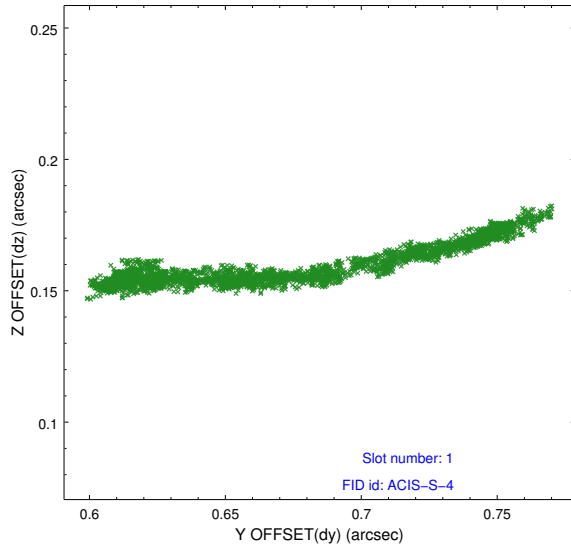


2.5 FID Slots

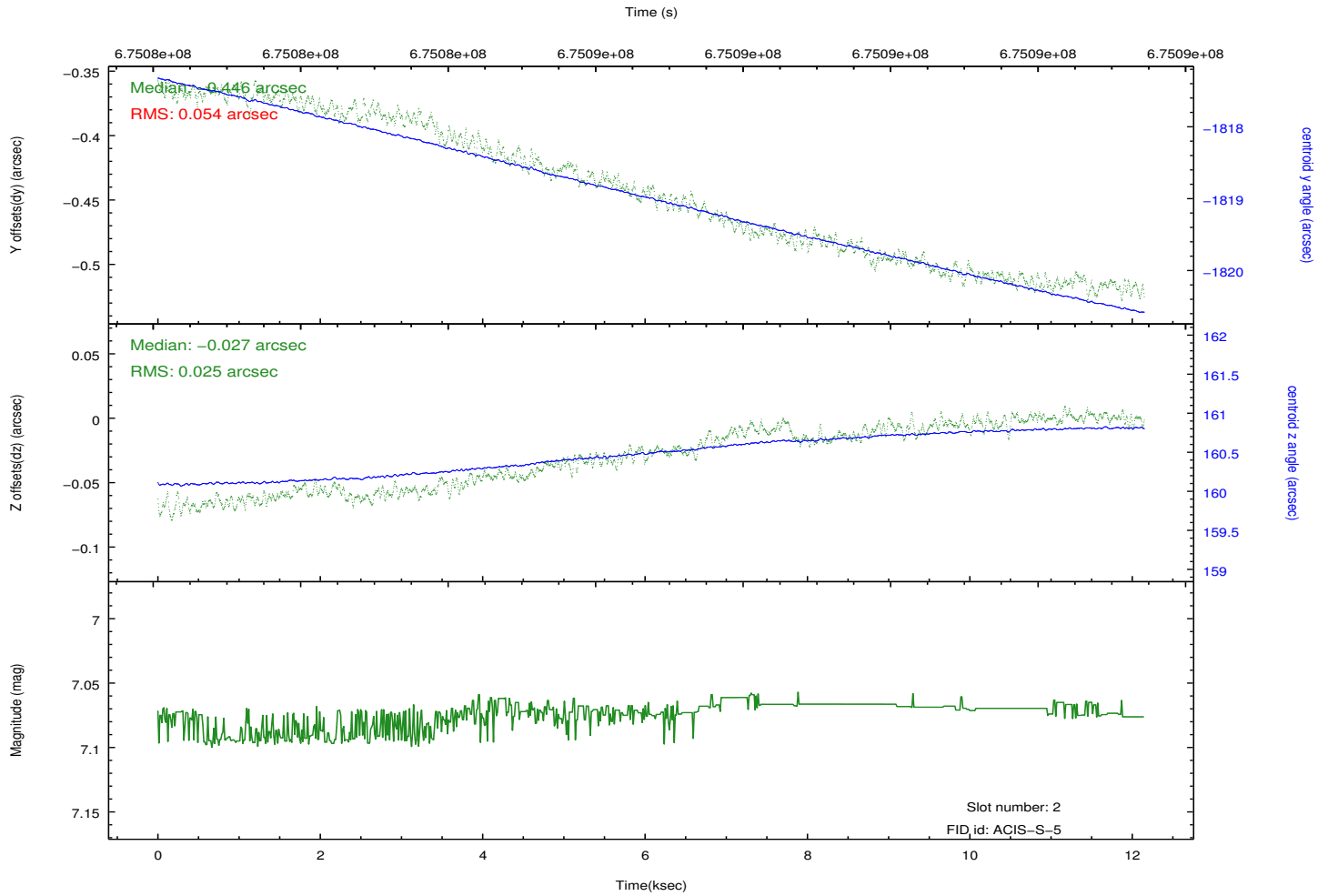
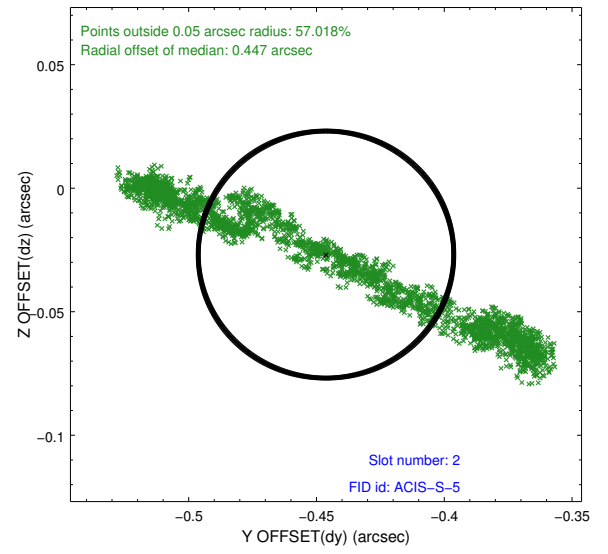
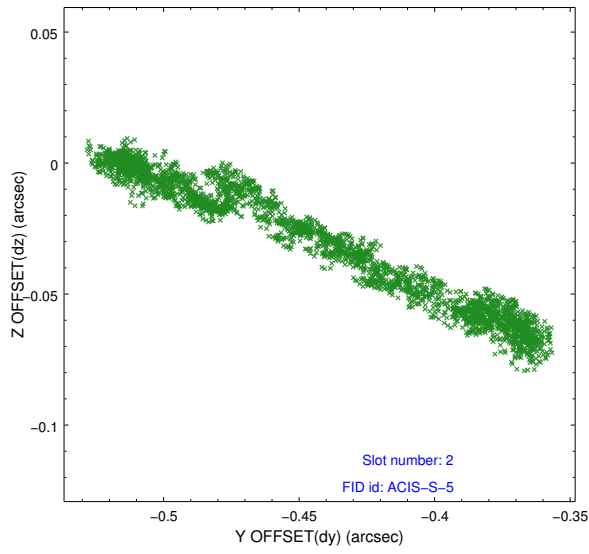
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2019.05.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	12.077100822687

A.2 Comments

Joint Proposal: NRAO. Monitor constraint met.