

CHEMICAL QUALITY CONTROL OF SNUS PRODUCTS IN 2011

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SUMMARY

All snus products produced by Swedish Match in the Gothenburg and Kungälv factories are tested in the Chemical Quality Control Program 4 times a year. The products are collected from the production line and kept in cool storage prior to analysis. All analyses are performed within 3 weeks from the production date. Products selected to represent different tobacco blends, production processes and formats (shape and size) are also tested at the end of their shelf-lives after storage in room temperature.

Included in the test battery are not only the **GOTHIA TEK**[®] compounds, but also a number of additional undesired compounds, some additives, pH, nicotine and moisture. Most of the analyses included in the Chemical Quality Control Program are performed at Swedish Match, R&D, Chemical Analysis Laboratory in Stockholm, Sweden, except for the analyses of PAHs, formaldehyde and ammonia, which are performed by the consultant laboratory Eurofins AB, Lidköping, Sweden. The bacteria count is measured at Swedish Match, Supply Chain, Quality Laboratory, Gothenburg, Sweden.

All of the products tested in 2011 have in most cases stable levels of the tested compounds and the compound levels well below the **GOTHIA TEK**[®] limits and the limits set by authorities and have been so for many years.

The nicotine, pH and moisture levels are well within the specifications set by Swedish Match.

All products have levels of the **GOTHIA TEK**[®] compounds below the limits at all testing occasions except three products, which have cadmium levels slightly above the limit. The internal tolerance limit for cadmium is exceeded in nine products.

The level of propylene glycol is above the limit set by the Swedish National Food Agency in two snus product at one test occasion and another six products have levels at the limit of 4 %. Fourteen out of 240 tested products have levels of ethanol above the declaration limit set by the Swedish Medical Products Agency in food.

In the ambition to successively lower the levels of undesired compounds in snus products, Swedish Match has introduced internal tolerance limits for the **GOTHIA TEK**[®] compounds, some additional questionable compounds and some additives. The snus products tested in the 2011 Chemical Quality Control Program have in most cases levels of these undesired compounds and additives below the internal limits, but there are some exemptions.

In 2011, the internal tolerance limit for NDMA was lowered from 4.5 to 2.0 ppb. Twelve out of 204 tested products have levels of NDMA equal to or above the internal tolerance limit. Levels equal to or above the internal tolerance limits are found for ochratoxin in one out of 86 tested products, for ethyl carbamate in 23 out of 270 tested products and for acrylamide in 50 out of 143 tested products. Levels equal to the internal tolerance limits are found for nitrite in 14 out of 204 tested products and for water activity in 4 out of 200 tested products.

The outcome from the nicotine control did not result in any change of recipe or change in target values for nicotine, pH or pouch weight.

See Table1 for a summary of the levels of the **GOTHIA TEK®** compounds 2011 as compared to 2010.

Table 1. Results in 2010 and 2011 for snus stored in refrigerator for 3 weeks, n=270

GOTHIA TEK® Compounds	2011			2010		
	Mean	95 % conf		Mean	95 % conf	
TSNA, (ppm)	1.50	1.47	- 1.53	1.48	1.44	- 1.52
NDMA,(ppb)	0.78	0.69	- 0.87	0.91	0.80	- 1.01
Nitrite, (ppm)	2.1	2.0	- 2.2	2.4	2.3	- 2.5
B(a)P, (ppb)	<1		-	<1		
Arsenic, (ppm)	<0.10		-	<0.10		
Cadmium, (ppm)	0.49	0.48	- 0.51	0.54	0.41	- 0.57
Lead, (ppm)	0.25	0.24	- 0.26	0.31	0.30	- 0.32
Nickel, (ppm)	1.31	1.27	- 1.35	1.29	1.12	- 1.47
Chromium, (ppm)	0.66	0.63	- 0.70	0.79	0.62	- 0.97

Calculated on dry matter bases.

In 2011 Swedish Match introduced 85 products on different markets. Thirtyfour out of the 85 new products were similar to removed products, with differences in product characteristics such as product weight or package size. Three new products were products within Catch Collection brand. Sixteen of the introduced products were brand new products. The remaining 32 items were existing products which were introduced on new markets or in a new package size.

A slightly higher quality of sodium carbonate came into use in the snus products due to delivery issues of the previous quality. The Probe flavour has been revised. The pouch material for General Onyx PSWL has changed from black to standard white pouch material.

LIMITS

Swedish Match practice two different sets of limits, the official limits according to **GOTHIA TEK®** published on the Swedish Match web page and the internal limits which are lower than the **GOTHIA TEK®** limits. See Table 2.

Table 2. Limits according to **GOTHIA TEK®** and internal limits according to the specification SP "Gränsvärden kemiskt innehåll i produkter" (rev. 2011-06-16)

	INTERNAL LIMITS SNUS		GOTHIA TEK®	
	<i>As is</i>	<i>Dry base</i>	<i>As is</i>	<i>Dry base</i>
TSNA (ppm)	≤ 1.5	≤ 3.0	≤ 5.0	≤ 10.0
NDMA (ppb)	≤ 1.0	≤ 2.0	≤ 5.0	≤ 10.0
Nitrite ion (ppm)	≤ 2.0	≤ 4.0	≤ 3.5	≤ 7.0
Nitrate ion (%)	≤ 1.3	≤ 2.5	-	-
B(a)P. Bens(a)pyren (ppb)	≤ 3.0	≤ 6.0	≤ 10.0	≤ 20.0
Ethylcarbamate (ppb)	≤ 35	≤ 70	-	-
Acrylamide (ppb)	≤ 500	≤ 1 000	-	-
Lead (ppm)	≤ 0.4	≤ 0.8	≤ 1.0	≤ 2.0
Arsenic (ppm)	≤ 0.2	≤ 0.4	≤ 0.3	≤ 0.5
Cadmium (ppm)	≤ 0.4	≤ 0.8	≤ 0.5	≤ 1.0
Chromium (ppm)	≤ 1.0	≤ 2.0	≤ 1.5	≤ 3.0
Nickel (ppm)	≤ 2.0	≤ 4.0	≤ 2.3	≤ 4.5
Ethanol (%)	≤ 1.8	≤ 3.6	-	-
PG. Propylene glycol (%)	≤ 4.0	-	-	-
Water activity	≤ 0.90	-	-	-
Aflatoxins (ppb)	≤ 0.84	≤ 1.7	-	-
Ochratoxin (ppb)	≤ 7.5	≤ 15.0	-	-
Bacteria(log[cfu/g])	≤ 4	-	-	-
Ammonium ion(ppm)	-	-	-	-
Formaldehyde (ppm)	≤ 50	≤ 100	-	-
Acetaldehyde (ppm)	≤ 50	≤ 100	-	-
PAH. Polycyclic aromatic hydrocarbons. carc 5* (ppb)	≤ ΣLoQ	≤ ΣLoQ	-	-
PAH. Polycyclic aromatic hydrocarbons. 9 (ppb)	≤ 500	≤ 1 000	-	-

*B(a)P excluded

Numbers in **bold** are applicable

PRODUCT INFORMATION

Product changes 2011

In May, the sodium carbonate used in all products was exchanged to sodium carbonate from a new supplier because of delivery issues. The new grade of sodium carbonate has the same properties and even slightly higher quality than the previous grade. The quality of the finished snus products did not change.

Aiming at fulfilling new regulations, the continuous work with revision of flavors proceeded during the year. Two flavors in the Probe products were exchanged to revised versions and one flavor in the Probe products was removed. The content of flavor substances is not included in the group of chemical components covered by this report.

The product called General Onyx PSWL, present on several markets, had a change of pouch fabric during the year. In October, the black fabric used before was exchanged to a standard white fabric. The change was made without changing the item number of the products.

Introduced and removed products 2011

In 2011 a total number of 85 products were introduced on diverse markets. In the turn of the year 2010, almost all of the portion snus products sold on the Norwegian market had a change in product weight from 24 g per can, to 21.6 g per can. Later on, in November 2011, the loose snus products sold on the Norwegian market had a change of product weight from 45 g per can, to 42 g per can. The changes in product weight were made by introducing new items with lower weight and removing the previous items with higher weight. Also a few Swedish products had a change in weight. Of the 85 introduced products, 34 items were products similar to removed products, with differences in product characteristics such as product weight or package size. Three of the new, as well as three of the removed products, were products within the Catch Collection-brand. Catch Collection is the brand of which the product has a change in flavor several times a year, without change of the item number. For each flavor, the brand name is accompanied with a name representing the flavor. 16 of the introduced products were brand new products. The remaining new products, 32 items, were existing products or recently introduced products, which were introduced on a new market or in a new package size.

The Bengt Sändh products, in total eight items, which were semi-manufactured snus products sold as a mix to be ready-made by the consumer, were all removed from the market in the beginning of 2011. The products had been sold only through a mail-order service in Sweden.

Traditional Swedish snus products previously sold in Russia were not produced in 2011 and were officially removed from the Russian market. Subsequently, three brand new products were introduced in Russia in the end of the year.

The total numbers of introduced and removed products on diverse markets are listed in Table 3 below, a total listing of introduced and removed products in 2011 can be found at the end of this report. [Se Table 13.](#)

Table 3.

Market	Introduced	Removed
Canada	1	
Duty Free	1	1
Norway	28	21
Russia	3	8
Sweden	38	24
Taiwan	2	
USA	12	
Totalt	85	54

PROCEDURE

Sampling of products for Chemical Quality Control

Packed snus is collected directly from the production line and all analyses are performed within 3 weeks after production. The products are stored in a refrigerator or freezer until analyzed. Shelf life studies are performed on products stored in room temperature until best before date which is for loose snus 14 weeks, for portion snus 20 weeks and for dry portion snus 30 weeks, respectively.

Sample collection and analysis of 76 different SKUs have been performed at four occasions during 2011, see [Table 4](#). The products were collected in January, April, August and October. The products collected in August were only analyzed for those compounds that are requested to be reported on smokeless tobacco products by the authorities in the US.

Shelf-life studies, which were performed on samples collected in January, were done on products representing a unique recipe, process or format. The products were stored in room temperature until best before date. Accordingly, 9 loose snus products were analyzed after 14 weeks, 17 portion snus products after 20 weeks and one dry portion snus product should have been analyzed after 30 weeks but were analyzed after 20 weeks storage instead.

The test battery used in the Chemical Quality Control program in 2011 is shown in [Table 6](#).

As from 2012, the net weight of a can of loose snus is reduced from 45 to 42 grams and the net weight of a 1 gram pouch are reduced to 0.9 grams for most brands. If both product sizes have been produced during 2011 the same product is presented twice since the results are given per SKU-number.

The first two batches of a new product are analyzed before the product is included into the Chemical Quality Control Program. In the project “fabrikation” products under development are analyzed using similar test battery, see [Table 14](#). In [Table 5](#) are all products having a SKU number, which have been analyzed within the project “Fabrikation”, presented. These results are not included in the Summary of the results from the 2011 Chemical Quality Control Program.

Sampling of products for Nicotine Control

Cans of snus for nicotine control are collected adjacent to the collection for Chemical Quality Control in April and October. Ten Cans are collected at five different time points during a production shift, two cans each time. Each of the 10 cans is analyzed for nicotine *as is*, pH and pouch weight. The nicotine control is performed on selected snus products representing all combinations of different tobacco blends, manufacturing processes and formats (shape and size). The nicotine control is always performed on new products prior to the launch.

Table 4. Snus products included in the Chemical Quality Control program in 2011.

Snus	Code	Cont. Snus	Code
01 Original Long PSOL	834	General PSWM	839
02 Strong Long PSOL	835	General PSWM	869
05 Strong White PSWL	824	General Silver PSOL	878
Catch Collection PSWM	860+838	General Smooth Taste PSWM	848
Catch Dry Eucalyptus PSWM	865	General Smooth Taste PSWM	6320
Catch Dry Licorice PSWM	861	General StrongPSWL	826
Catch Eucalyptus PSWL	8381	General Wintergreen PSWL	4882
Catch Eucalyptus PSWL	889	Göteborgs Prima Fint LS	828
Catch Licorice PSOM	888	Göteborgs Rapé LS	823
Catch Licorice PSWL	8392	Göteborgs Rapé PSWL	8388
Catch Licorice PSWL	887	Göteborgs Rapé PSWL	874
Catch Pure Mint PSW Medium	847	Göteborgs Rapé PSWM	833
Chill Catch PSWM	821,2860,6042	Göteborgs Rapé PSWM	873
Ettan LS	804,7455	Göteborgs Rape No2 PSWL	893
Ettan PSOL	875,7456	Grov LS	844
Ettan PSWL	876	Grov PSOL	885
General Classic Blend PSWL	4877	Grov PSWL	884
General Dry Mint PSOM	4800	Grov Svart PSWL	898
General Dry Mint PSWM	4980	Kaliber PSOL	840
General Extra Strong LS	1235,2534	Kaliber PSWL	841
General Extra Strong PSOL	850	Kardus Superior Blend LS	8859
General Fresh Taste PSWM	6321	Kronan LS	802
General Green Harvest PSWL	8883	Kronan PSOL	872
General Long PSOL	849	Kronan PSOL	8372
General Long Strong PSOL	825	Kronan PSWL	894
General LS	852,7453	Marlboro Strong PSOL	832
General Mint PSWL	4352,4983	Marlboro Strong PSWL	836
General Mint PSWM (TW)	6655	N&J Crushed Ice PSOL	902
General Nordic Mint PSWL	4876	Nick & Johnny Strong PSWL	813
General Onyx PSWL	892	Nick and Johnny PSOL	814
General Onyx PSWL	8383	Probe LS	831
General Original PSWL	6323	Probe PSOL	871
General Original PSWM (TW)	3322	Röda Lacket LS	808
General PSOL	880	Röda Lacket PSWL	8385
General PSOL	8387,7454	Röda Lacket PSWL	870
General PSOM	879	Tre Ankare PSWL	883
General PSWL	4981,8389	Tre Ankare PSWM	837
General PSWL	881	Tre Ankare PSWM	882

Table 5. Products analyzed outside the Chemical Quality Control program 2011.

Snus	Code
05 Strong PSWL	824
06 Extra Strong Long PSOL	901
Catch Eucalyptus PSWL	889
Catch Collection PSWM	838
Catch Dry Licorice PSWM	861
Catch Dry Eucalyptus PSWM	865
Ettan PSWL	876
General Classic Blend PSWL	4877
General Dry Mint PSWM	4800
General Green Harvest PSWL	8883
General Long Extra Strong PSOL	8306
General Nordic Mint PSWL	4876
General Smooth PSWM	848
General Strong PSWL	826
General Titanium PSWL	6322
Grov Svart PSWL	898
Kaliber Original PSOL	840
Kaliber Strong PSOL	6454
Kaliber Strong PSWL	6451
Kaliber Vit Portion PSWL	841
Kardus Superior Blend LS	8859
Marlboro Mint PSWM	6656
Marlboro Original PSWM	6657
N&J Crushed Ice PSOL	902
Parliament Intense Creation PSWM	1896
Parliament Mint Creation PSWM	1897
Parliament Original Creation PSWM	1898
Probe LS	831
Probe PSOL	871
Tre Ankare PSWM	882

Table 6. Compounds analyzed in Chemical Quality Control 2011

3 times / year (max age 3 weeks in cold storage)	once / year (14/20/30 weeks storage in RT)
<i>Snus</i> Aflatoxins B(a)P Bacteria (3 w. RT) Glycerol Metals: (Pb, As, Cd, Cr, Ni)* NDMA Alkaloids* Nitrate Nitrite Ochratoxin pH* Propylene glycol TSNA* Water activity Water content* Moisture* Ammonia* Acrylamide Formaldehyde ** PAH carcinogenic PAH others Ethanol Ethylcarbamate	<i>Snus</i> Bacteria NDMA Nicotine Nitrite pH TSNA Ethyl Carbamate Water activity Water content

* 4 times/year

** once/year

RESULTS

SNUS

In the graphs below are the mean together with the min and max for all products obtained for the **GOTHIA TEK**[®] - compounds, nitrate and mycotoxins at each testing occasion during 2003 – 2011 presented. Mean-, min- and max-values for TSNA, NDMA, nitrite, ethyl carbamate and bacteria are also presented after 3, 14 and 20/30 weeks storage at RT. The Catch Dry product with a shelf life of 30 weeks was tested after 20 weeks instead of 30 weeks by mistake. Thereby, no data is available for 30 weeks of storage in 2011. See [Graphs 1-10 + 15-18](#). All values in the graphs and text below are given on dry weight, when not otherwise indicated.

The mean values for nicotine *as is* per SKU obtained from Chemical Quality Control together with the target values are presented in [Graph 11](#). The mean-, min- and max-values from the Nicotine Control (10 cans) for nicotine *as is*, pH and pouch weight are presented together with target values in [Graphs 12 – 14](#).

The mean values for each tested compound are given in the text below together with the range of ± 2 stdev.

Values below LOQ are set to 50 % of the LOQ in calculation of sums and averages.

GOTHIA TEK[®] COMPOUNDS

Mean values after 3 weeks storage are presented in [Table 8](#) and [9](#) for each brand.

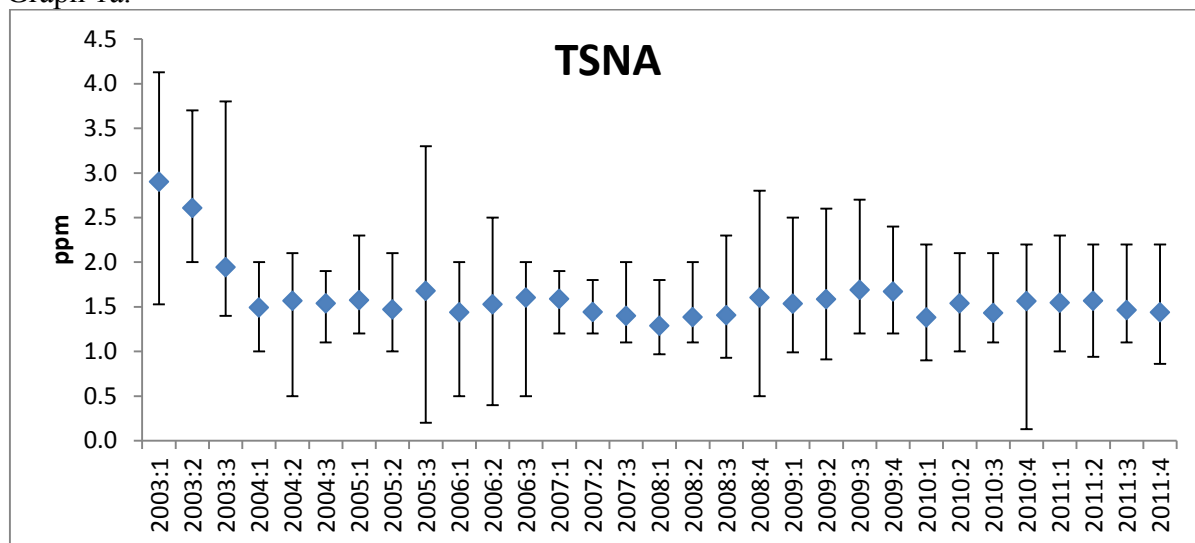
TSNA

The quantification limit is 0.05 ppm and the measurement uncertainty is 26 %.

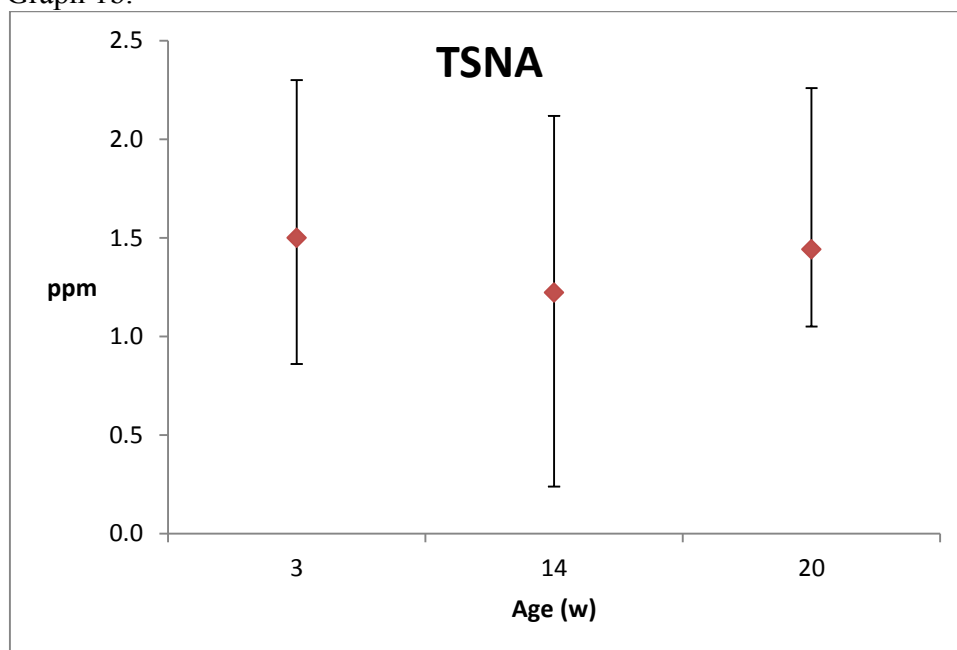
All TSNA-levels are well below the **GOTHIA TEK**[®] -limit. No levels exceed the internal limit of 3.0 ppm during 2011. The mean value for 2011 is 1.5 ppm (1.0 – 2.1 ppm).

The TSNA level does not increase by storage for 14-30 weeks at RT.

Graph 1a.



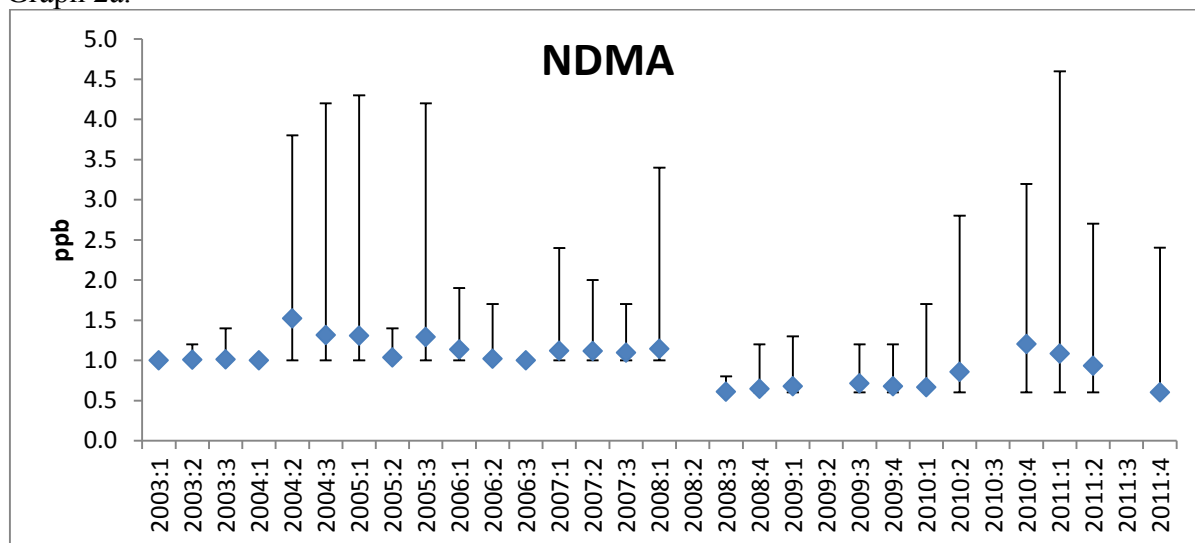
Graph 1b.



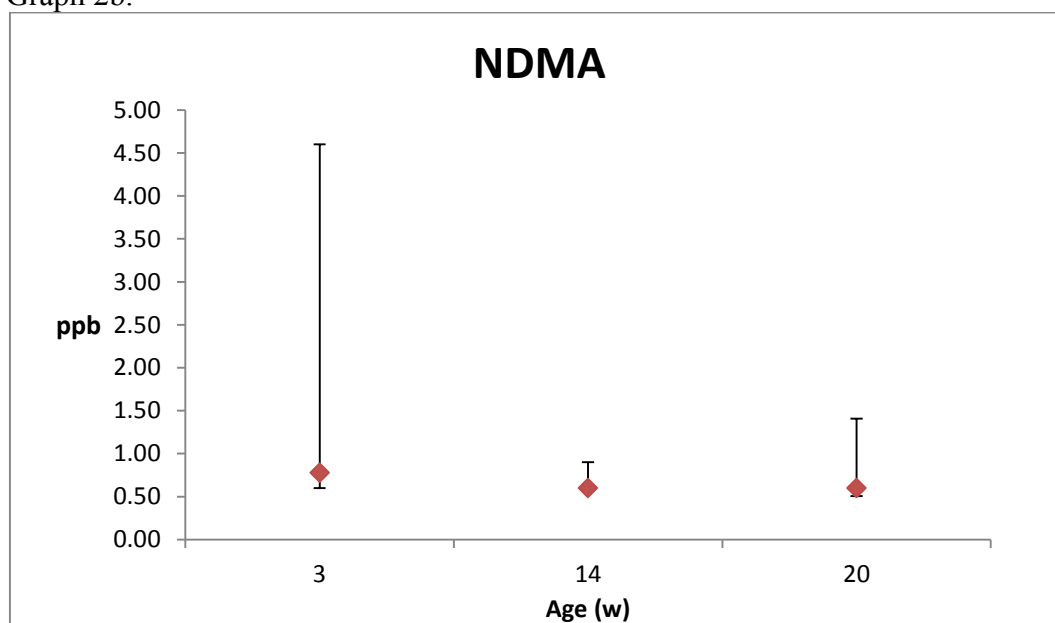
NDMA

The quantification limit is 0.6 ppb and the measurement uncertainty is 20 %. All NDMA-levels are well below the **GOTHIA TEK®**-limit. The internal upper limit has been changed from 4.5 ppb to 2.0 ppb in 2011. Twelve out of 204 tested products have levels equal to or above the internal limit of 2.0 ppb during 2011. The mean value for 2011 is 0.8 ppb (<0.6 – 2.1 ppb). The NDMA level does not increase by storage for 14-20 weeks at RT.

Graph 2a.



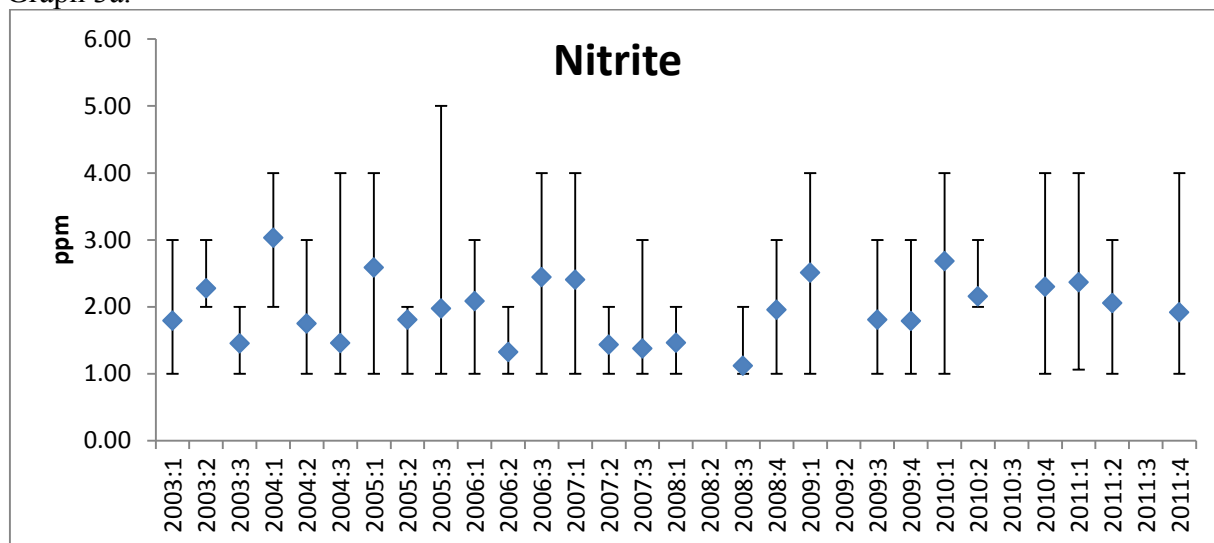
Graph 2b.



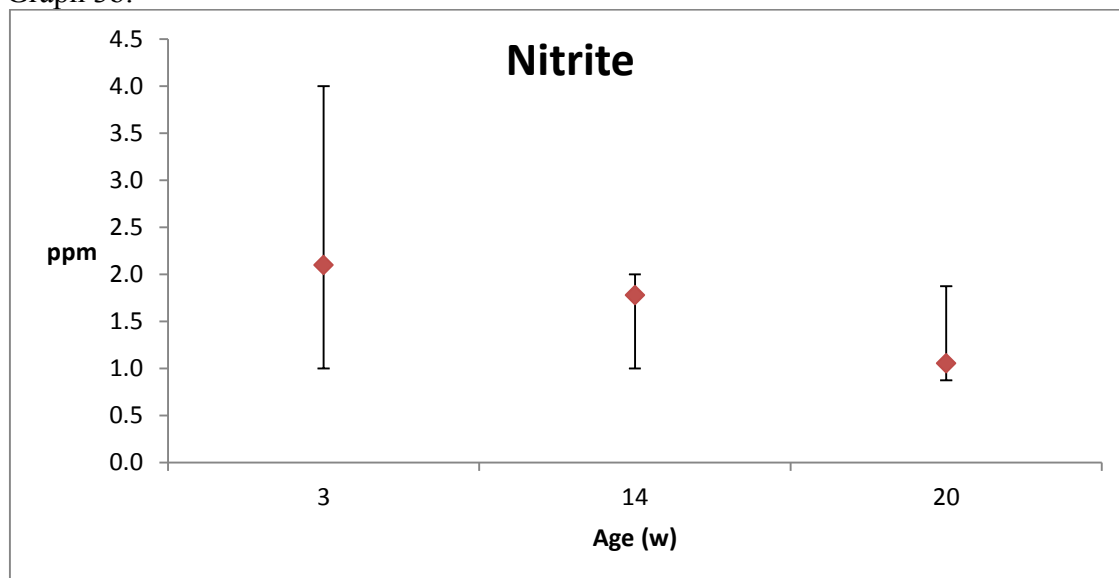
Nitrite

The quantification limit is 1 ppm and the measurement uncertainty is 29 %. All nitrite levels are well below the **GOTHIA TEK®** -limit. No levels exceed the internal limit of 4.0 ppm during 2011. Fourteen products out of 204 have 4.0 ppm of nitrite in 2011. The mean value for 2011 is 2.1 ppm (<1-3.8 ppm). The nitrite level does not increase by storage 14-20 weeks at RT.

Graph 3a.



Graph 3b.



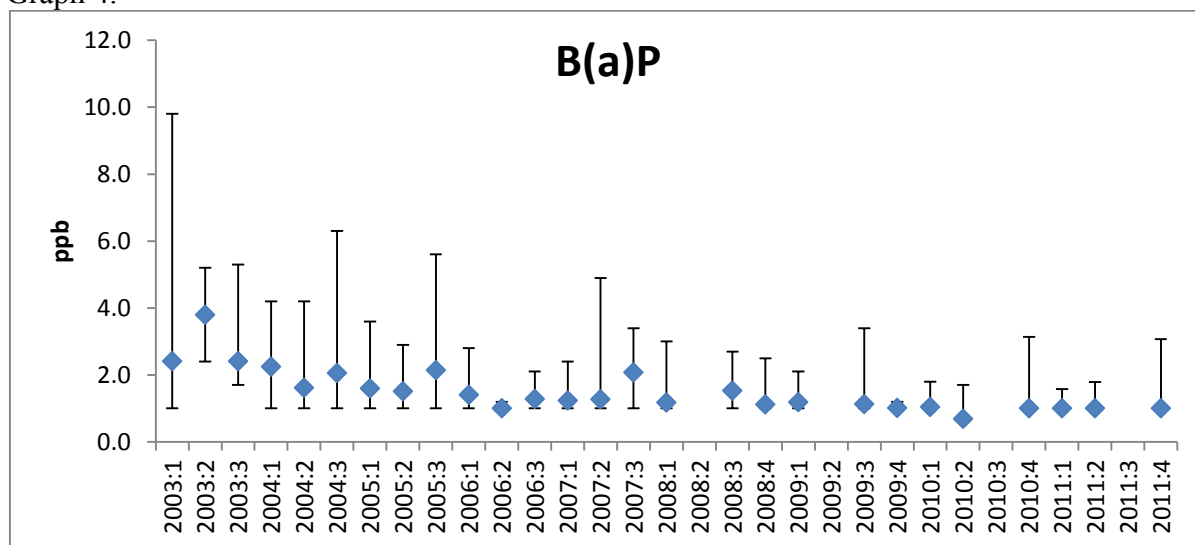
B(a)P

The quantification limit is 1.0 ppb and the measurement uncertainty 22.5 %.

All B(a)P levels are well below the **GOTHIA**TEK® -limit. No levels exceed the internal limit of 6 ppb during 2011. The mean value for 2011 is below 1 ppb (<1.0-1.6 ppb).

Fire cured tobacco has not been used since May 2002 in snus products. The present levels seems to be natural in the type of tobacco that are used today.

Graph 4.

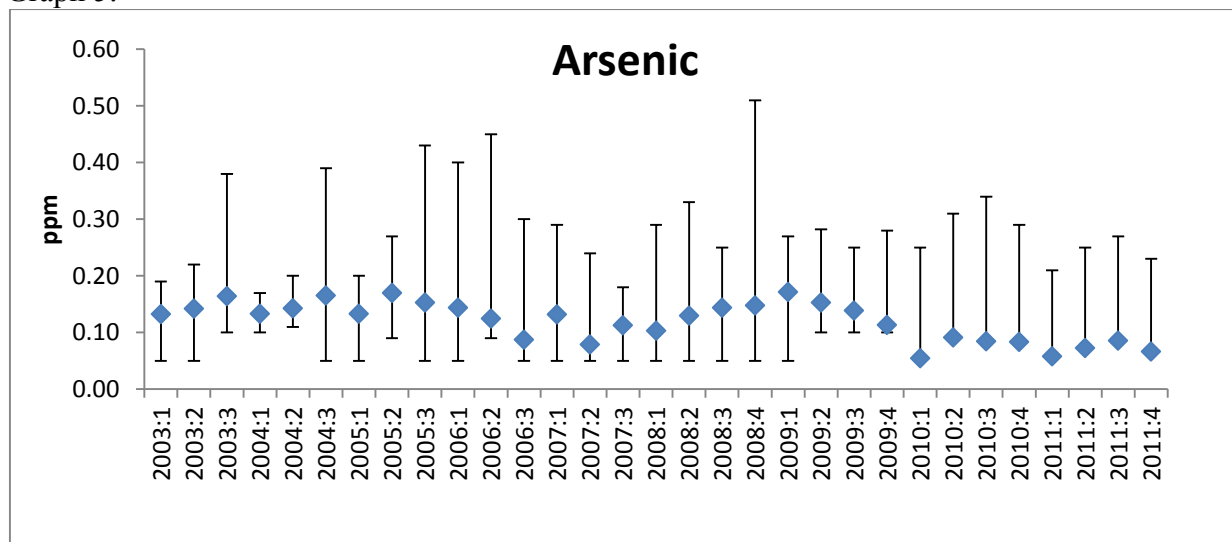


Arsenic

The quantification limit is 0.10 ppm and the measurement uncertainty and 30 %, respectively.

All arsenic levels are well below the **GOTHIA TEK**[®] -limit (0.5 ppm). No levels exceed the internal limit of 0.4 ppm during 2011. The mean value for 2011 is below the quantification limit (<0.10-0.18 ppm).

Graph 5.

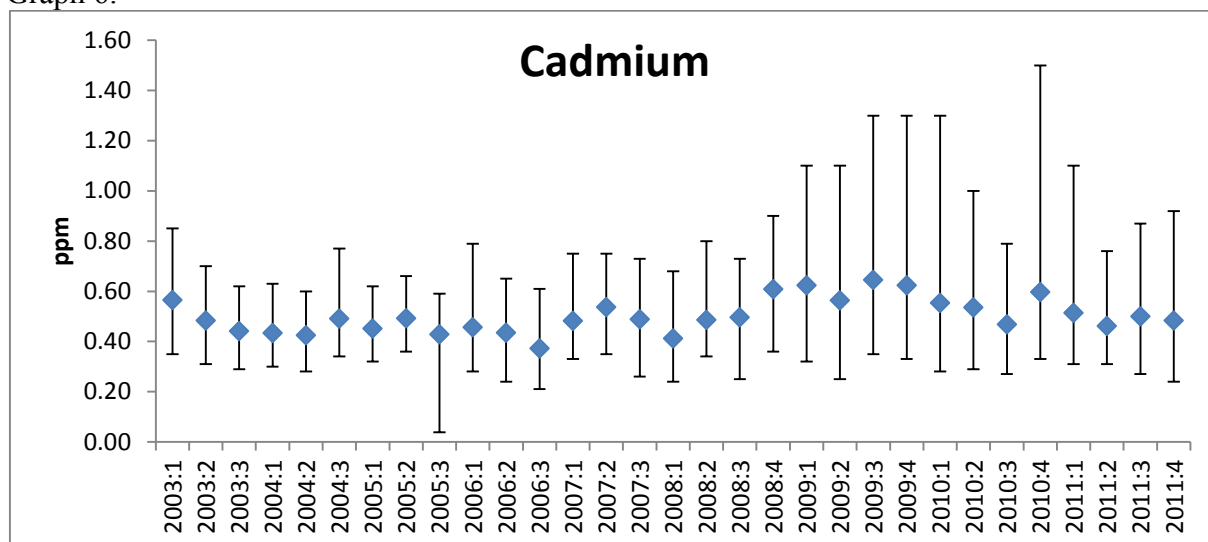


Cadmium

The quantification limit is 0.01 ppm and the measurement uncertainty 15 %.

Three out of 270 tested products have cadmium levels above the **GOTHIA TEK**[®] -limit (1 ppm) and in total nine products have levels above the internal limit of 0.8 ppm during 2011. The mean value for 2011 is 0.49 ppm (0.23 – 0.75 ppm).

Graph 6.

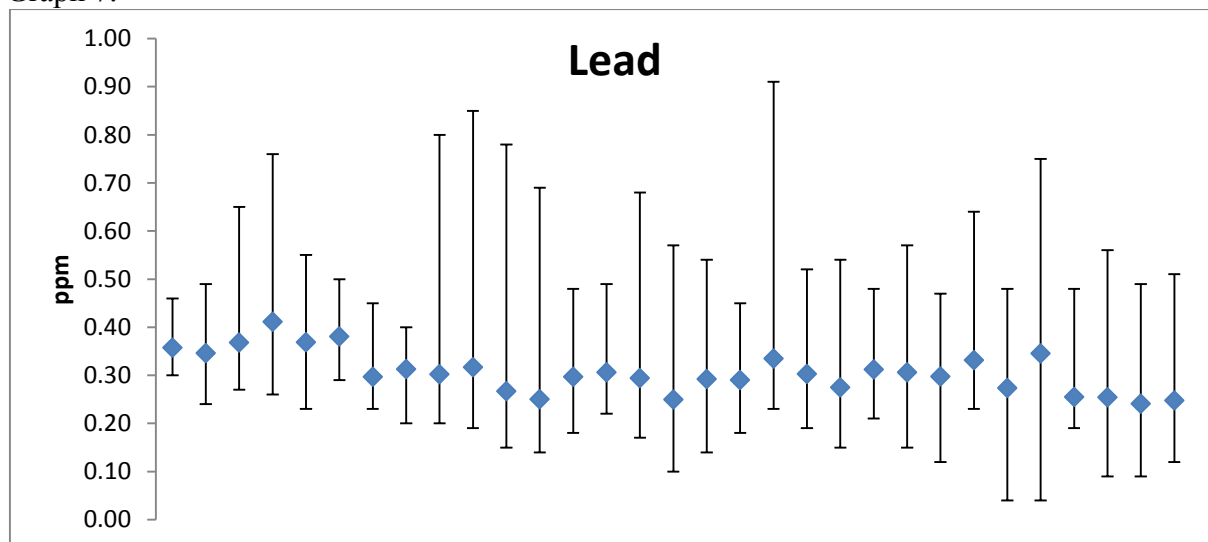


Lead

The quantification limit is 0.08 ppm and the measurement uncertainty 20 %.

All lead levels are well below the **GOTHIA TEK**[®] -limit (2 ppm) and also below the limit set by the Swedish National Food Agency of 3 ppm (wet weight). No levels exceed the internal limit of 0.8 ppm during 2011. The mean value for 2011 is 0.25 ppm (0.09-0.41 ppm).

Graph 7.

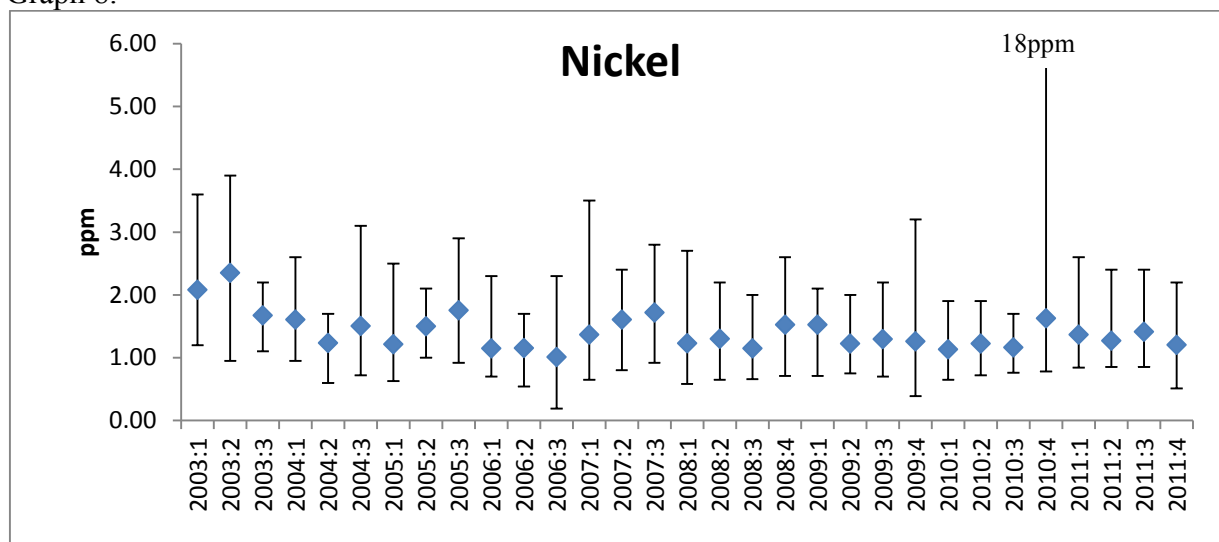


Nickel

The quantification limit is 0.10 ppm and the measurement uncertainty 20 %.

All levels of nickel are well below the **GOTHIA TEK**[®] -limit (4.5 ppm). No levels exceed the internal limit of 4.0 ppm during 2011. The mean value for 2011 is 1.3 ppm (<0.64 – 2.0 ppm).

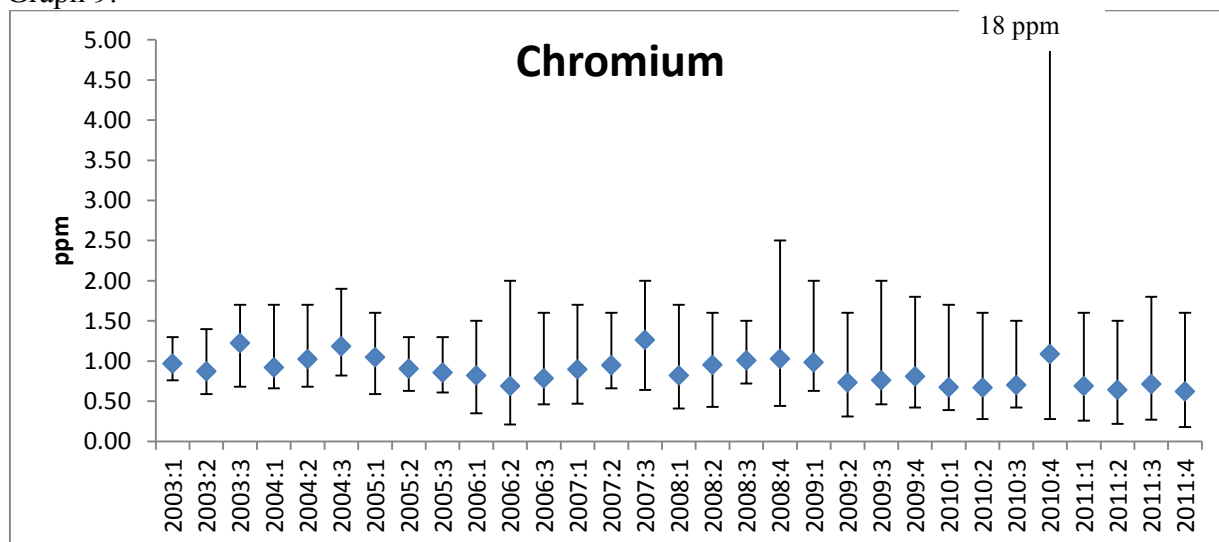
Graph 8.



Chromium

The quantification limit is 0.06 ppm and the measurement uncertainty 25 %. All chromium levels are well below the **GOTHIA TEK®** -limit (3.0 ppm). No brands exceed the internal limit of 2.0 ppm during 2011. The mean value for 2011 is 0.66 ppm (0.13-1.2 ppm).

Graph 9.



MOISTURE, WATER, pH AND NICOTINE

On www.svensktsnus.se the moisture, pH and nicotine contents are given for each snus product.

Moisture and water content

The measurement uncertainty for moisture content is 1.2 % and for water content 5 %. The measured moisture content is in accordance with the target values. See [Table 11](#).

Nicotine

The quantification limit is 0.2 % and the measurement uncertainty is 5 %.

In [Table 10](#) the nicotine content in finished products in % *as is* or % on dry weight are given per brand. Free nicotine is calculated using the Henderson-Hasselbalch equation based on measured pH and total nicotine content.

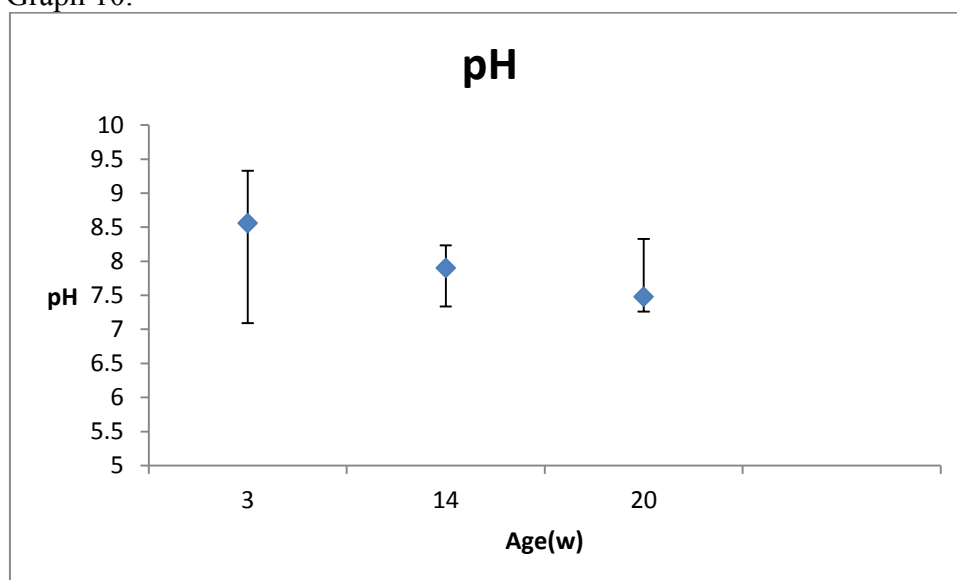
In [graph 11](#) below the total nicotine as a mean value from the 4 testing occasions in 2011 are compared with the target value for each product.

pH

The measurement uncertainty is 0.6 %.

The Dry products together with 878 General Silver PSOL have pH between 7.1 and 7.8. The other snus products have pH between 7.9 and 9.3. The pH value declines after storage 14 or 20 weeks in RT. See Graph 10.

Graph 10.



Nicotine control

A nicotine control is performed two times per year. 10 cans are collected at five different points in time during a production shift, two cans at each time. Each of the 10 cans is analyzed for nicotine *as is*, pH and pouch weight. The nicotine control is

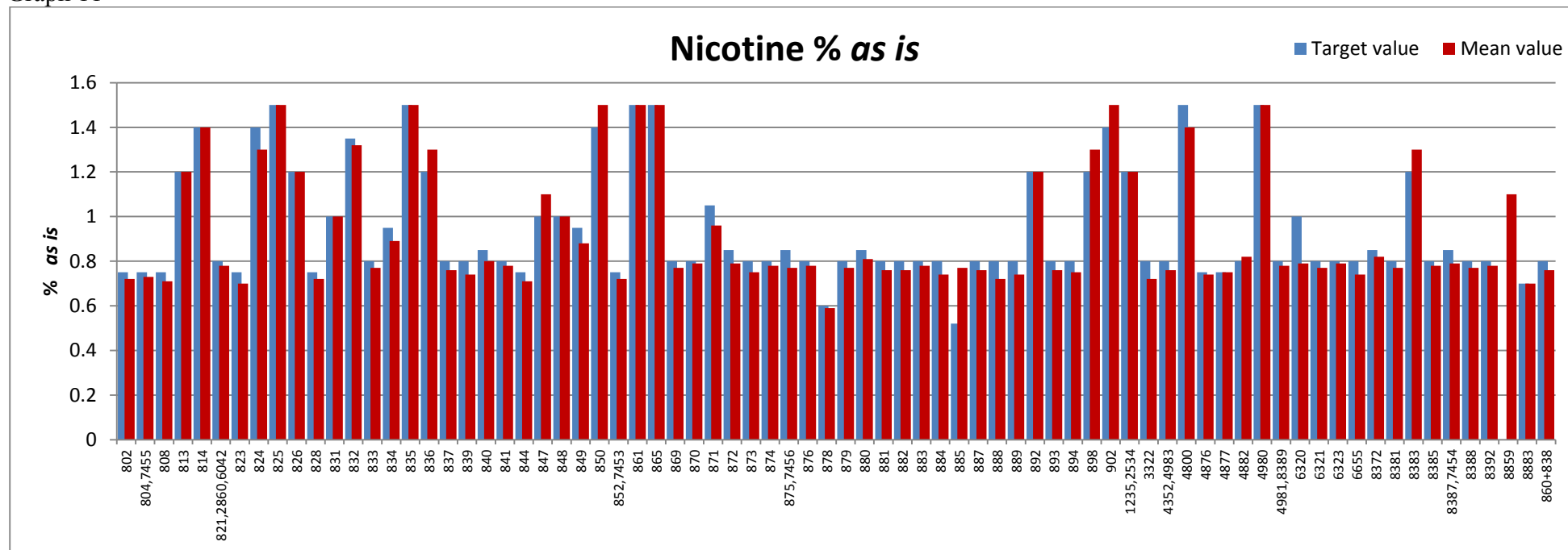
performed on selected products which represent different tobacco blends, production processes and formats (shape and size). The nicotine control is also performed on new products prior to the launch.

All products are within the specifications.

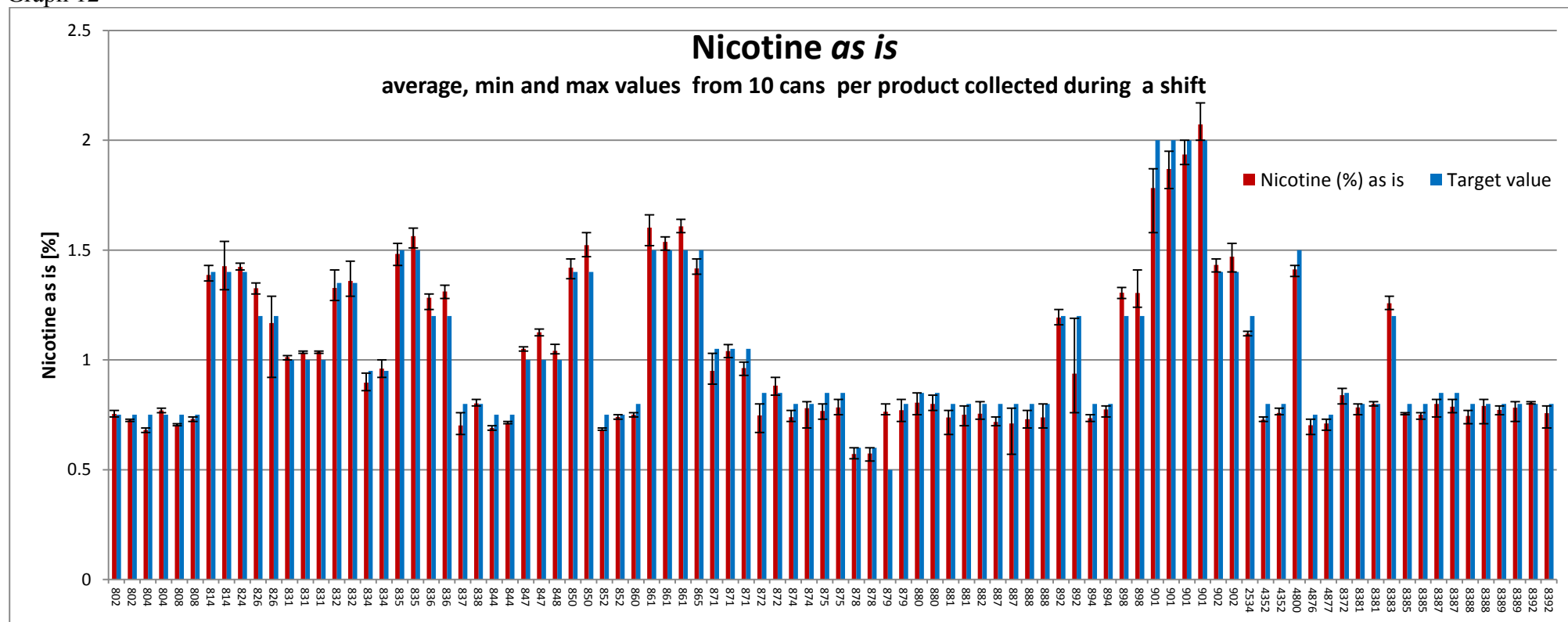
The internal tolerances are ± 15 % for loose snus and ± 20 % for portion snus.

The results from 2011 are presented in [graph 12 - 14](#) below.

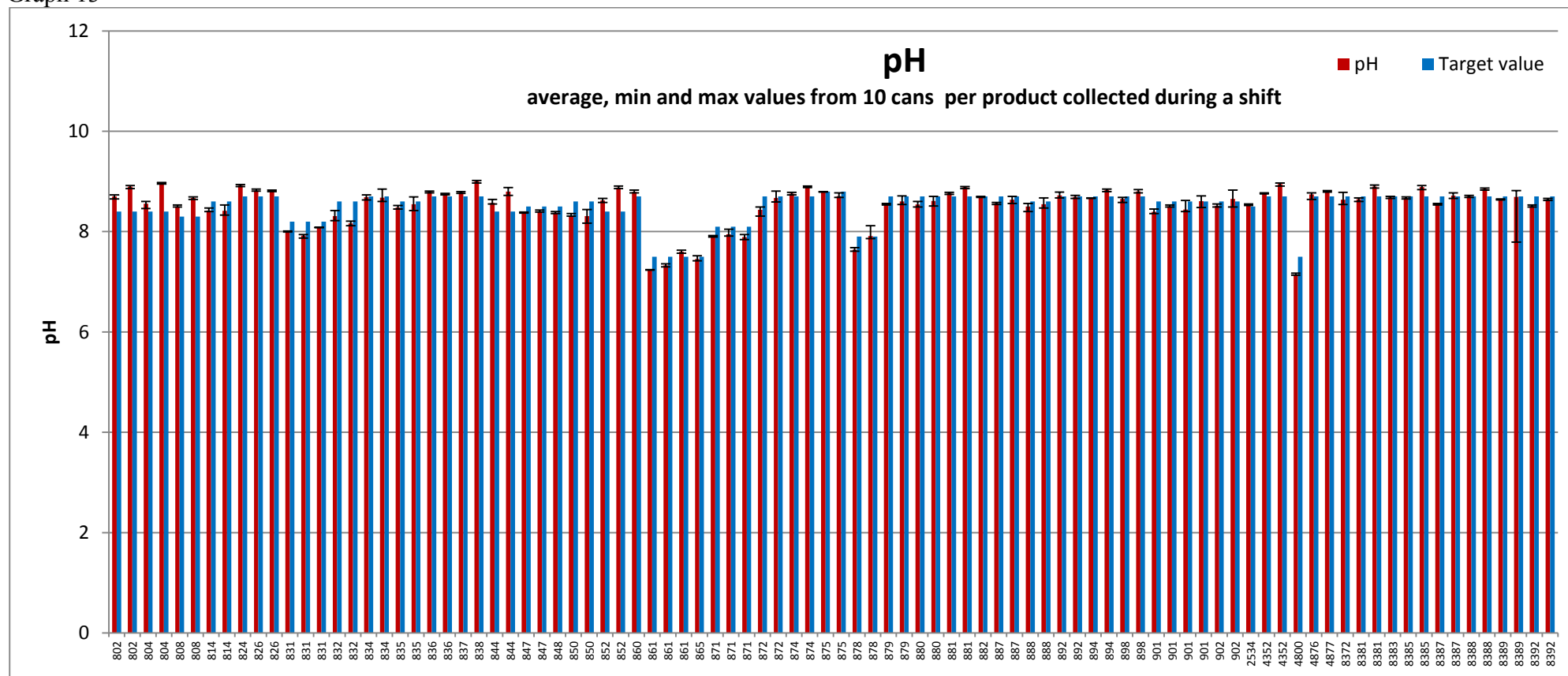
Graph 11



Graph 12



Graph 13



Pouch weight
average, min and max values from 10 cans per product collected during a shift

Legend: Pouch weight (red), Target value (blue)

Y-axis: Pouch weight [gram]

X-axis: Product No.

Product No.	Pouch weight [gram]	Target value [gram]
814	0.90	0.90
815	0.88	0.90
816	0.88	0.90
817	0.86	0.90
818	0.93	0.90
819	0.93	0.90
820	0.93	0.90
821	0.90	0.90
822	0.90	0.90
823	0.90	0.90
824	0.91	0.90
825	0.91	0.90
826	0.90	0.90
827	0.90	0.90
828	0.90	0.90
829	0.90	0.90
830	0.90	0.90
831	0.90	0.90
832	0.90	0.90
833	0.90	0.90
834	0.90	0.90
835	0.90	0.90
836	0.93	0.90
837	0.50	0.50
838	0.50	0.50
839	0.65	0.65
840	0.65	0.65
841	0.65	0.65
842	0.65	0.65
843	0.65	0.65
844	0.65	0.65
845	0.65	0.65
846	0.65	0.65
847	0.65	0.65
848	0.65	0.65
849	0.65	0.65
850	1.08	1.10
851	1.08	1.10
852	1.08	1.10
853	0.53	0.50
854	0.30	0.30
855	0.30	0.30
856	0.30	0.30
857	0.30	0.30
858	0.30	0.30
859	0.30	0.30
860	0.30	0.30
861	0.30	0.30
862	0.30	0.30
863	0.30	0.30
864	0.30	0.30
865	0.30	0.30
866	0.30	0.30
867	0.30	0.30
868	0.30	0.30
869	0.30	0.30
870	0.30	0.30
871	0.98	1.00
872	0.98	1.00
873	0.98	1.00
874	0.98	1.00
875	0.98	1.00
876	0.98	1.00
877	0.98	1.00
878	0.98	1.00
879	0.98	1.00
880	0.98	1.00
881	0.98	1.00
882	0.98	1.00
883	0.98	1.00
884	0.98	1.00
885	0.98	1.00
886	0.98	1.00
887	0.98	1.00
888	0.98	1.00
889	0.98	1.00
890	0.98	1.00
891	0.98	1.00
892	0.98	1.00
893	0.98	1.00
894	0.98	1.00
895	0.98	1.00
896	0.98	1.00
897	0.98	1.00
898	0.98	1.00
899	0.98	1.00
900	0.98	1.00
901	0.98	1.00
902	0.98	1.00
903	0.98	1.00
904	0.98	1.00
905	0.98	1.00
906	0.98	1.00
907	0.98	1.00
908	0.98	1.00
909	0.98	1.00
910	0.98	1.00
911	0.98	1.00
912	0.98	1.00
913	0.98	1.00
914	0.98	1.00
915	0.98	1.00
916	0.98	1.00
917	0.98	1.00
918	0.98	1.00
919	0.98	1.00
920	0.98	1.00
921	0.98	1.00
922	0.98	1.00
923	0.98	1.00
924	0.98	1.00
925	0.98	1.00
926	0.98	1.00
927	0.98	1.00
928	0.98	1.00
929	0.98	1.00
930	0.98	1.00
931	0.98	1.00
932	0.98	1.00
933	0.98	1.00
934	0.98	1.00
935	0.98	1.00
936	0.98	1.00
937	0.98	1.00
938	0.98	

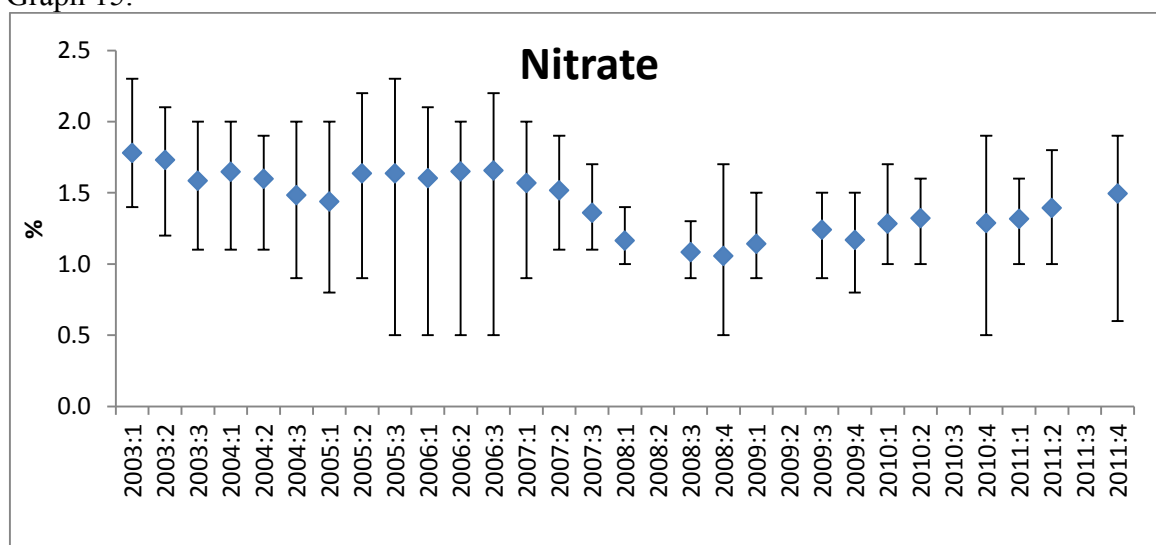
NITRATE, HUMECTANTS, WATER ACTIVITY, BACTERIA, MYCOTOXINS, AA, AMMONIA, FORMALDEHYDE, ETHANOL AND ETHYL CARBAMATE

All results per analyte (except nitrate) and per product tested are presented in [Tables 11, 12 and 13](#) and summarized below.

Nitrate

The quantification limit is 0.0015 % and the measurement uncertainty 13 %. The internal limit (3.0 %) is not exceeded in any of the tested snus products 2011. The levels range from 0.6 to 1.9 %. See [Table 8](#) for results per brand.

Graph 15.



Propylene glycol

The quantification limit is 0.2 % and the measurement uncertainty 14 %. The Swedish National Food Agency allows maximum 4.0 % propylene glycol (as is) in oral smokeless tobacco products. Two Röda Locket products have 4.3 and 4.4 % of propylene glycol at one test occasion and additional six products out of 204, have propylene glycol values equal to the maximum limit 4 % 2011.

Glycerol

The quantification limit is 0.2 % and the measurement uncertainty 9 %. Germany has a maximum value for glycerol in tobacco products, 10 % (dry weight) which corresponds to 5 % in finished products. The maximum value found in 2011 is 3.4 % in finished products.

Water activity

The internal limit is <0.90. 875 Ettan PSOL, 888 Catch Licorice PSOM, 898 Grov Svart PSWL and 8387 General PSOL have the water activity 0.90 at one testing occasion each. All other products have water activities within the range, 0.61 – 0.89.

In average the water activity is 0.02 units lower in loose snus (paper cans) after 14 weeks in RT than after 3 weeks. In pouch products packed in plastic cans the water activity is unchanged after 20 weeks in RT.

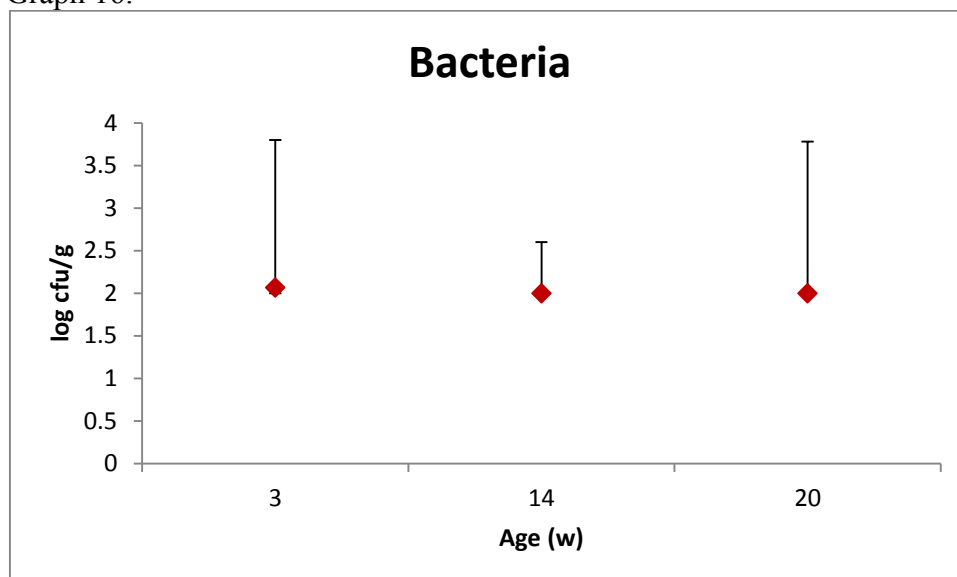
Bacteria

The quantification limit is 2 log cfu/g snus.

The internal limit is < 4 log cfu/g snus. Sixtyfive out of 204 tested products have levels below the quantification limit. When bacteria is detected it is *Bacillus* spp.

The bacterial count remains at the same level after storage in RT.

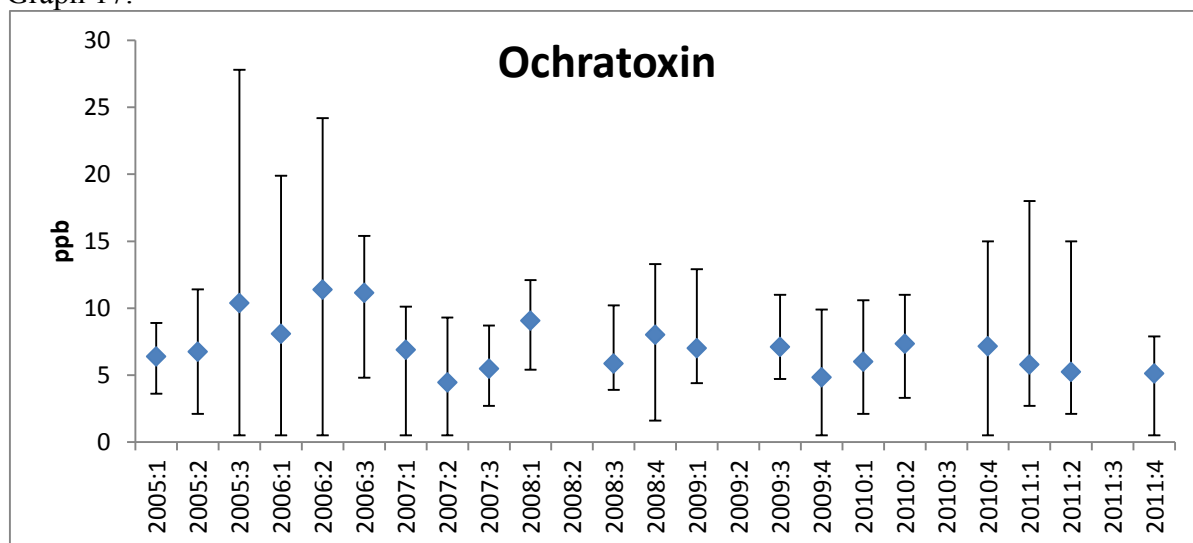
Graph 16.



Mycotoxins

The quantification limits for the aflatoxins are 0.1 ppb aflatoxin B1, 0.5 ppb B2, 0.5 ppb G1 and 1 ppb G2. No aflatoxins are found above the LOQ in any product 2011. The quantification limit for ochratoxin is 0.5 ppb, measurement uncertainty 31 %. Measurable amounts of ochratoxin are found in almost all tested products. The average value is 5.3 ppb (<0.5 – 11.3 ppb). The internal limit for ochratoxin is 15 ppb. Out of 86 tested products one product, 871 Probe PSOL has 18 ppb of ochratoxin at one test occasion 2011.

Graph 17.



Acrylamide

The quantification limit is 10 ppb and the measurement uncertainty 5.4 %.

The internal tolerance limit is 1000 ppb. In 2011, 1/3 of the tested snus products have levels of acrylamide above the internal limit. The mean value for acrylamide is 1017 ppb (<10 - 2228 ppb).

Ammonia and Formaldehyde

Swedish Match reports the levels of ammonia and formaldehyde in snus to authorities in the US.

The proposed internal limit for formaldehyde is 100 ppm, no snus product has a level that exceed that limit.

In 2011 the mean value for ammonia is 2.3 mg/g (0.4-4.2 mg/g) and the mean value for formaldehyde is 20.4 ppm (7.6-33.3 ppm).

Ethanol and Ethyl Carbamate

The Swedish MPA has set a maximum content (1.8 weight % *as is*) of alcohol in foods. If that level is exceeded, the alcohol content has to be declared. The internal limit is 3.6 % (dry weight). Fourteen products out of 270 contain more than 3.6 % ethanol.

The internal limit (70 ppb) for ethyl carbamate is exceeded in 23 products out of 270 tested.

There is a strong relationship between high ethanol content and high ethyl carbamate content in the tested snus products.

In 2011 the mean value for ethanol is 1.04 % (<0.004-3.2 %) and for ethyl carbamate <30 ppb (<30 – 75.5 ppb).

The level of ethyl carbamate increases by storage in room temperature, 14 weeks of storage for loose snus and 20 weeks for portion snus.

Graph 18.

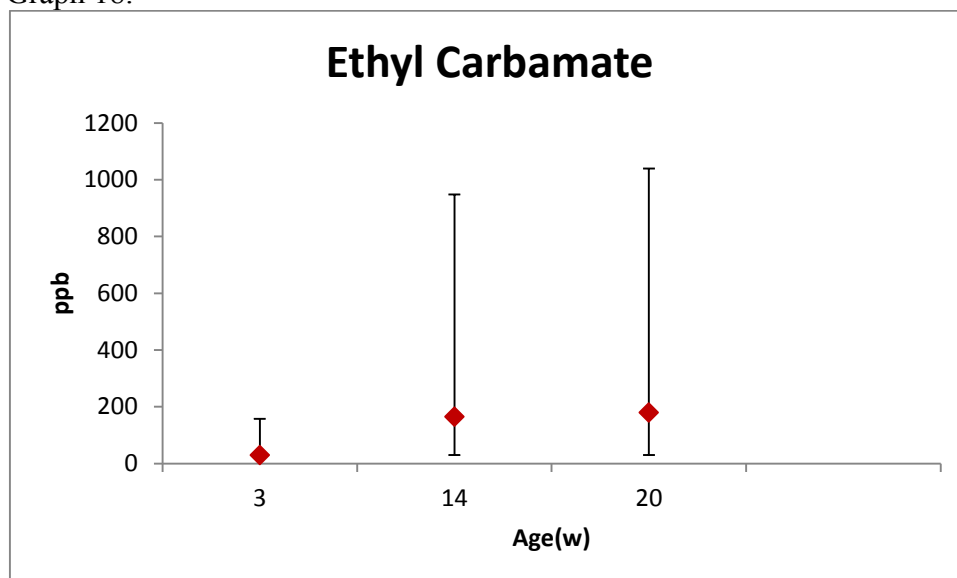


Table 7. Analytical results for all tested snus products 2011.

Age	Compound	n 2011	Min 2011	Mean 2011 (Mv ± 2 stdev)	Mean 2010 (Mv ± 2 stdev)	Max 2011	Median 2011	GT-2001	Internal limits
Max 3 w cold storage	GOTHIA TEK® compounds								
	TSNA-NNN (µg/g)	270	0.38	0.65 (0.4-0.9)	0.65 (0.4-0.9)	1.1	0.64		
	TSNA-NAT (µg/g)	270	0.26	0.52 (0.2-0.8)	0.51 (0.2-0.8)	0.97	0.47		
	TSNA-NAB (µg/g)	270	0.02	0.033 (0.01-0.05)	0.031 (0.01-0.05)	0.07	0.03		
	TSNA-NNK (µg/g)	270	0.17	0.30 (0.16-0.44)	0.29 (0.12-0.45)	0.59	0.29		
	TSNA tot (µg/g)	270	0.86	1.50 (0.95-2.1)	1.5 (0.9-2.1)	2.3	1.5	10	3.0
	Nitrite (µg/g)	204	<1	2.1 (<1-3.8)	2.4 (1.1-3.6)	4	2	7	4.0
	NDMA (ng/g) (SM)	204	<0.6	0.8 (<0.6-2.1)	0.9 (<0.6-2.2)	4.6	<0.6	10	2.0
	B(a)P (ng/g)	203	<1	0.8 (<1-1.6)	0.7 (<1-1.7)	2.8	<1	20	6.0
	Lead (µg/g)	270	0.09	0.25 (0.09-0.41)	0.31 (0.12-0.50)	0.56	0.24	2.0	0.8
	Arsenic (µg/g)	270	<0.1	0.07 (<0.1-0.18)	0.08 (<0.10-0.24)	0.27	<0.1	0.5	0.4
	Cadmium (µg/g)	270	0.24	0.49 (0.23-0.75)	0.54 (0.14-0.94)	1.1	0.46	1.0	0.8
	Chromium (µg/g)	270	0.18	0.66 (0.13-1.2)	0.79 (<0.06-3.0)	1.8	0.60	3.0	2.0
	Nickel (µg/g)	270	0.51	1.3 (0.64-2.0)	1.3 (<0.10-3.8)	2.6	1.3	4.5	4.0
	Others								
	Nicotine (%)	270	0.96	1.7 (0.9-2.4)	1.6 (0.9-2.4)	2.8	1.5		
	Nornicotine (µg/g)	270	150	325 (177-474)	322 (177-467)	560	320		
	Anatabine (µg/g)	270	150	383 (105-661)	399 (126-673)	850	345		
	Nitrate (%)	204	0.6	1.4 (0.9-1.9)	1.3 (0.8-1.8)	1.9	1.4	-	3.0
	Glycerol (% as is)	204	<0.2	0.5 (<0.2-2.4)	0.5 (<0.2-2.7)	3.4	<0.2		
	PG (% as is)	204	<0.2	3.1 (1.2-5.0)	3.1 (1.1-5.1)	4.4	3.3		4.0
	Ammonia (mg/g)	270	0.8	2.3 (0.4-4.2)	2.1 (0.2-4.0)	5.9	2.1		
	Water activity	200	0.6	0.86 (0.78-0.94)	0.87 (0.84-0.90)	0.90	0.87		< 0.90
	Moisture (%)	270	24.1			59.4	52.9		
	Bacteria (log cfu/g. as is)	204	<1	2.1 (<2-3.7)	2.3 (<2-4.3)	3.8	2.2		4.0
	Aflatoxin B1. B2. G1. G2 (ng/g)	86		<2.1	<0.84				1.7
	Ochratoxin (ng/g)	86	<0.5	5.3 (<0.5-11.3)	6.8 (0.6-13.0)	18.0	4.5		15
	pH	270	7.1	8.6 (7.8-9.3)	8.5 (7.8-9.2)	9.3	8.7		
	Ethanol (%)	270	<0.04	1.04 (<0.04-3.15)	0.69 (<0.004-2.2)	5.44	0.66		3.6
	Ethyl Carbamate (ng/g)	270	<30	<30 (<30-75.5)	<30 (<30-135)	157	<30		70

Age	Compound	n 2011	Min 2011	Mean 2011 (Mv ± 2 stdev)	Mean 2010 (Mv ± 2 stdev)	Max 2011	Median 2011	GT-2001	Internal limits
	Formaldehyde (µg/g)	66	7.1	20.4 (7.6-33.3)	29.1 (10.0-48.2)	36.7	21.2		100
	Acrylamide (ng/g)	143	380	1017 (<10-2228)	797 (<10-1661)	5600	920		1000
	Sum Carcinogenic PAHs (ng/g)	66			Max <300	<300			ΣLoQ
	Sum Other PAHs (ng/g)	66			Max 870	800			1000
14 w RT	TSNA tot (ppm)	9	1.0	1.2 (0.80-1.6)	1.1 (0.04-2.2)	1.7	1.1		
	Nitrite (ppm)	9	1	1.8 (<1-2.7)	2.0 (<1-3.5)	2	2		
	NDMA (ppb)	9	<0.6	<0.6 (<0.6-1.0)	<0.6	0.9	0.6		
	Nicotine (%)	9	1.1	1.5 (0.69-2.2)	1.3 (0.72-1.9)	2.1	1.3		
	Ethyl Carbamate (ppb)	9	15	165 (<30-759)	70 (<30-227)	948	79		
	Water activity	9	0.84	0.87 (0.83-0.90)	0.87 (0.82-0.91)	0.88	0.87		
	Bacteria (log cfu/g. as is)	9	<2	<2 (<2-3.1)	<2 (<2-3.2)	2.6	2.0		
	pH	9	7.4	7.9 (6.9-8.9)	7.2 (6.6-7.7)	9.2	7.9		
20+30 w RT	TSNA tot (ppm)	17	1.0	1.4 (0.93-2.0)	1.4 (0.7-2.1)	1.9	1.5		
	Nitrite (ppm)	18	<1	1.1 (<1-2.3)	2.1 (<1-3.4)	2.0	<1		
	NDMA (ppb)	18	<0.6	0.60 (<0.6-1.6)	0.66 (<0.6-1.4)	2.1	<0.6		
	Nicotine (%)	18	0.78	1.4 (0.55-2.3)	1.5 (0.72-2.2)	2.4	1.4		
	Ethyl Carbamate (ppb)	18	<30	181 (<30-648)	188 (<20-455)	1040	101		
	Water activity	17	0.81	0.86 (0.81-0.90)	0.87 (0.85-0.89)	0.88	0.87		
	Bacteria (log cfu/g. as is)	18	<2	<2 (<2-3.0)	2.0 (<2-4.5)	3.6	<2		
	pH	18	6.8	7.4 (6.5-8.5)	7.3 (6.6-8.0)	8.3	7.9		

All values except Glycerol, PG, Water activity and bacteria are given on dry matter basis.

Table 8: Levels of **GOTHIA TEK®** compounds and nitrate per product in 2011 (dry matter basis)

Code Brand	n	TSNA total (ppm)			NDMA (ppb)			Nitrite (ppm)			Nitrate (%)			B(a)P (ppb)		
		Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max
834 01 Original Long PSOL	4	1.5	1.6	1.7	<0.6	<0.6	0.7	1	2.2	4	1.2	1.3	1.4	<1	<1	<1
835 02 Strong Long PSOL	4	1.7	2.0	2.2	<0.6	<0.6	<0.6	2	2.7	3	1.2	1.3	1.4	1.1	1.3	1.4
824 05 Strong White PSWL	1		1.9			<0.6			2.0			1.9			<0.5	
860+838 Catch Collection PSWM	4	1.3	1.4	1.5	<0.6	0.7	0.9	<1	1.5	2	1.5	1.6	1.7	<1	<1	<1
865 Catch Dry Eucalyptus PSWM	4	1.5	1.6	1.7	<0.6	<0.6	<0.6	1	1.3	2	1.0	1.2	1.6	1.1	1.3	1.5
861 Catch Dry Licorice PSWM	4	1.5	1.7	1.8	<0.6	<0.6	<0.6	1	1.7	2	1.1	1.3	1.6	<1	1.0	1.3
8381 Catch Eucalyptus PSWL	4	1.3	1.4	1.6	<0.6	2.0	3.3	1	1.7	2	1.4	1.5	1.7	<1	<1	1.1
889 Catch Eucalyptus PSWL	4	1.3	1.4	1.5	1.7	2.9	4.6	<1	1.8	4	1.4	1.6	1.7	<1	<1	1.1
888 Catch Licorice PSOM	4	1.5	1.5	1.5	<0.6	0.7	0.9	2	2.3	3	1.2	1.2	1.2	<1	<1	<1
8392 Catch Licorice PSWL	4	0.9	1.3	1.5	<0.6	1.6	2.7	<1	0.7	1	1.1	1.4	1.6	<1	<1	1.4
887 Catch Licorice PSWL	4	1.3	1.5	1.7	2.2	2.4	2.7	2	2.0	2	1.5	1.6	1.7	<1	<1	1.4
847 Catch Pure Mint PSW Medium	4	1.4	1.6	1.7	<0.6	<0.6	0.7	2	2.3	3	1.2	1.3	1.3	<1	<1	1.0
821,2860,6042 Chill Catch PSWM	4	1.2	1.4	1.5	<0.6	0.7	0.9	1	2.3	4	1.4	1.5	1.7	<1	<1	1.1
804,7455 Ettan LS	5	1.0	1.1	1.4	<0.6	0.6	1.1	2	2.5	3	1.1	1.2	1.4	<1	1.1	1.4
875,7456 Ettan PSOL	5	1.3	1.5	1.6	<0.6	0.6	0.9	2	2.8	4	1.2	1.3	1.3	<1	<1	1.0
876 Ettan PSWL	4	1.4	1.6	1.7	<0.6	0.7	0.9	1	2.3	4	1.6	1.7	1.8	<1	<1	1.1
4877 General Classic Blend PSWL	2	1.0	1.3	1.5	<0.6	0.7	1.1	2	2.5	3	1.4	1.5	1.6	1.2	1.3	1.4
4800 General Dry Mint PSOM	4	1.4	1.6	1.8	<0.6	0.9	1.6	1	1.7	2	1.0	1.2	1.4	1.1	1.3	1.5
4980 General Dry Mint PSWM	2	1.6	1.7	1.7	<0.6	<0.6	<0.6	2	2.0	2	1.4	1.4	1.4	1.2	1.2	1.2
1235,2534 General Extra Strong LS	4	1.7	1.9	1.9	<0.6	0.7	1.0	2	3.0	4	1.2	1.2	1.2	1.2	1.4	1.5
850 General Extra Strong PSOL	4	1.8	2.0	2.1	<0.6	<0.6	0.7	2	2.3	3	1.3	1.3	1.4	<1	1.1	1.6
6321 General Fresh Taste PSWM	2	1.2	1.5	1.7	<0.6	0.5	0.7	<1	1.8	3	1.4	1.6	1.8	<1	<1	<1
8883 General Green Harvest PSWL	1		1.2			<0.6			<1			0.6			<1	
849 General Long PSOL	4	1.5	1.6	1.6	<0.6	0.6	0.7	1	2.3	3	1.3	1.4	1.4	<1	<1	1.0
825 General Long Strong PSOL	4	1.9	2.0	2.1	<0.6	<0.6	<0.6	2	3.0	4	1.3	1.3	1.4	1.0	1.2	1.5
852,7453 General LS	5	1.2	1.2	1.3	<0.6	0.5	0.8	<1	2.4	4	1.1	1.2	1.4	<1	1.0	1.5
4352,4983 General Mint PSWL	5	1.2	1.4	1.7	<0.6	1.8	3.1	2	2.5	4	1.4	1.5	1.7	<1	<1	1.1
6655 General Mint PSWM (TW)	3	1.3	1.5	1.6	<0.6	0.7	1.4	2	2.0	2	1.3	1.5	1.6	<1	1.3	2.3
4876 General Nordic Mint PSWL	3	1.2	1.4	1.6	<0.6	0.7	1.0	2	2.5	3	1.4	1.5	1.5	<1	<1	1.1
892 General Onyx PSWL	4	1.6	1.8	2.1	<0.6	0.8	1.3	2	2.3	3	1.5	1.6	1.6	<1	<1	0.5
8383 General Onyx PSWL	3	1.6	1.8	2.1	0.8	0.9	0.9	1	1.5	2	1.4	1.5	1.6	<1	<1	0.5
6323 General Original PSWL	3	1.3	1.4	1.5	<0.6	0.9	1.3	1	2.0	3	1.5	1.7	1.9	<1	<1	<1
3322 General Original PSWM (TW)	3	1.1	1.3	1.4	<0.6	0.6	1.3	<1	1.0	2	1.3	1.4	1.6	<1	<1	0.5
880 General PSOL	4	1.4	1.5	1.6	<0.6	<0.6	0.6	2	2.0	2	1.1	1.2	1.3	<1	<1	1.1

Code Brand	n	TSNA total (ppm)			NDMA (ppb)			Nitrite (ppm)			Nitrate (%)			B(a)P (ppb)		
		Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max
8387,7454 General PSOL	4	1.4	1.5	1.6	<0.6	0.6	1.0	<1	2.1	4	1.1	1.3	1.4	<1	1.2	2.8
879 General PSOM	4	1.3	1.4	1.4	<0.6	0.9	1.2	2	3.0	4	1.1	1.2	1.2	<1	<1	<1
4981,8389 General PSWL	5	1.1	1.4	1.7	<0.6	1.1	1.9	2	2.0	2	1.6	1.7	1.8	<1	<1	<1
881 General PSWL	4	1.2	1.4	1.6	<0.6	1.2	1.8	<1	1.8	3	1.5	1.6	1.7	<1	<1	1.3
839 General PSWM	2	1.2	1.3	1.3	<0.6	<0.6	<0.6	2	2.0	2	1.7	1.7	1.7	<1	<1	<1
869 General PSWM	2	1.7	1.8	1.9	1.0	1.7	2.4	3	3.0	3	1.5	1.5	1.5	<1	<1	<1
878 General Silver PSOL	4	0.9	1.0	1.1	<0.6	1.0	2.4	2	2.7	4	1.2	1.3	1.4	<1	<1	1.0
848 General Smooth Taste PSWM	3	1.2	1.5	1.7	<0.6	<0.6	<0.6	2	2.0	2	1.4	1.4	1.4	<1	<1	1.0
6320 General Smooth Taste PSWM	3	1.2	1.4	1.7	<0.6	0.5	1.0	2	2.3	3	1.5	1.6	1.8	<1	<1	<1
826 General StrongPSWL	3	1.7	2.0	2.3	0.9	1.1	1.3	2	2.0	2	1.5	1.7	1.8	<1	<1	1.1
4882 General Wintergreen PSWL	6	1.1	1.3	1.7	<0.6	0.9	1.7	<1	1.6	3	1.4	1.6	1.7	<1	<1	1.0
828 Göteborgs Prima Fint LS	4	0.9	1.1	1.3	<0.6	<0.6	<0.6	2	2.0	2	1.0	1.2	1.4	1.1	1.2	1.3
823 Göteborgs Rapé LS	4	1.1	1.2	1.3	<0.6	0.6	0.8	<1	1.8	3	1.1	1.3	1.4	<1	<1	<1
8388 Göteborgs Rapé PSWL	4	1.1	1.4	1.7	0.9	1.5	2.0	2	2.3	3	1.5	1.6	1.8	<1	<1	<1
874 Göteborgs Rapé PSWL	4	1.3	1.6	2.0	1.3	1.6	1.9	2	2.0	2	1.5	1.7	1.8	<1	<1	1.1
833 Göteborgs Rapé PSWM	2	1.2	1.3	1.4	<0.6	<0.6	<0.6	2	2.0	2	1.8	1.8	1.8	<1	<1	<1
873 Göteborgs Rapé PSWM	2	1.4	1.5	1.6	1.1	1.4	1.6	1	1.5	2	1.4	1.5	1.5	<1	<1	1.3
893 Göteborgs Rape No2 PSWL	4	1.2	1.4	1.6	1.0	1.4	1.9	1	2.0	3	1.5	1.6	1.6	<1	<1	1.2
844 Grov LS	4	1.2	1.3	1.3	<0.6	0.5	0.7	2	2.7	3	1.1	1.3	1.5	<1	<1	1.3
885 Grov PSOL	4	1.3	1.5	1.6	<0.6	0.7	1.0	2	3.0	4	1.1	1.3	1.4	<1	<1	<1
884 Grov PSWL	4	1.4	1.6	1.9	<0.6	0.5	0.9	2	2.3	3	1.5	1.6	1.8	<1	<1	1.1
898 Grov Svart PSWL	4	1.6	1.8	2.0	0.8	1.0	1.1	2	2.0	2	1.4	1.6	1.8	<1	<1	<1
840 Kaliber PSOL	2	1.3	1.4	1.5	<0.6	<0.6	<0.6	2	2.0	2	1.3	1.3	1.3	<1	<1	<1
841 Kaliber PSWL	2	1.3	1.4	1.5	<0.6	<0.6	<0.6	2	2.0	2	1.7	1.7	1.7	<1	<1	<1
8859 Kardus Superior Blend LS	2	1.3	1.4	1.5	<0.6	<0.6	<0.6	2	2.0	2	0.8	0.9	0.9	<1	<1	1.1
802 Kronan LS	4	1.3	1.4	1.4	<0.6	<0.6	0.7	2	2.0	2	1.0	1.1	1.2	<1	<1	1.2
872 Kronan PSOL	4	1.3	1.4	1.5	<0.6	<0.6	0.6	2	2.3	3	1.0	1.2	1.3	<1	<1	<1
8372 Kronan PSOL	4	1.2	1.6	1.7	<0.6	<0.6	0.6	2	2.0	2	1.1	1.2	1.4	<1	<1	1.2
894 Kronan PSWL	4	1.3	1.5	1.6	<0.6	0.6	1.2	<1	1.8	3	1.4	1.6	1.8	<1	<1	1.1
832 Marlboro Strong PSOL	3	1.7	1.9	2.2	<0.6	0.3	0.3	2	2.0	2	1.3	1.4	1.4	1.0	1.2	1.3
836 Marlboro Strong PSWL	3	1.7	1.7	1.8	<0.6	0.7	1.0	<1	1.8	3	1.7	1.8	1.8	<1	0.9	1.2
902 N&J Crushed Ice PSOL	2	2.1	2.2	2.2	<0.6	0.3	0.3	2	2.0	2	1.3	1.3	1.3	1.5	1.5	1.5
813 Nick & Johnny Strong PSWL	4	1.7	1.9	2.1	<0.6	0.8	1.3	2	2.0	2	1.3	1.6	1.8	<1	<1	1.0
814 Nick and Johnny PSOL	4	1.9	2.0	2.2	<0.6	<0.6	0.6	2	2.0	2	1.2	1.3	1.3	1.2	1.3	1.4
831 Probe LS	4	1.2	1.4	1.6	<0.6	0.9	1.5	<1	1.8	3	1.0	1.1	1.4	1.2	1.3	1.5

Code Brand	n	TSNA total (ppm)			NDMA (ppb)			Nitrite (ppm)			Nitrate (%)			B(a)P (ppb)		
		Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max
871 Probe PSOL	4	1.4	1.6	1.8	<0.6	<0.6	<0.6	2	2.7	3	1.0	1.2	1.4	1.1	1.2	1.2
808 Röda Lacket LS	4	0.9	1.1	1.1	<0.6	<0.6	<0.6	2	2.0	2	1.1	1.2	1.2	<1	1.0	1.4
8385 Röda Lacket PSWL	3	1.4	1.4	1.5	1.1	1.4	1.6	<1	1.8	3	1.5	1.5	1.5	<1	<1	1.2
870 Röda Lacket PSWL	4	1.1	1.4	1.5	<0.6	0.6	1.0	<1	2.2	4	1.4	1.6	1.8	<1	<1	1.0
883 Tre Ankare PSWL	4	1.3	1.4	1.6	<0.6	0.5	0.9	<1	1.2	2	1.4	1.6	1.7	<1	<1	1.1
837 Tre Ankare PSWM	2	1.3	1.4	1.5	<0.6	<0.6	<0.6	2	2.0	2	1.7	1.7	1.7	<1	<1	0.5
882 Tre Ankare PSWM	2	1.5	1.6	1.7	<0.6	0.6	0.8	2	2.0	2	1.5	1.5	1.5	<1	<1	1.2

All data are given on dry matter basis.

Table 9: Levels of **GOTHIA TEK®** compounds (heavy metals) per product in 2011 (dry matter basis)

Code	Brand	n	Lead (ppm)			Cadmium (ppm)			Chromium (ppm)			Arsenic (ppm)			Nickel (ppm)		
			Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max
	834 01 Original Long PSOL	4	0.29	0.32	0.34	0.41	0.42	0.43	0.71	0.81	1.00	0.2	0.2	0.3	0.77	1.1	1.4
	835 02 Strong Long PSOL	4	0.22	0.25	0.27	0.54	0.66	0.74	0.41	0.67	1.00	<0.1	<0.1	<0.1	1.1	1.4	1.7
	824 05 Strong White PSWL	1		0.17			0.60			1.60		<0.1				1.4	
	860+838 Catch Collection PSWM	4	0.12	0.18	0.21	0.35	0.41	0.53	0.28	0.51	0.59	<0.1	<0.1	<0.1	0.77	1.4	2.1
	865 Catch Dry Eucalyptus PSWM	4	0.22	0.25	0.28	0.48	0.56	0.68	0.51	0.71	0.91	<0.1	0.1	0.2	1.3	1.5	1.6
	861 Catch Dry Licorice PSWM	4	0.19	0.22	0.25	0.49	0.54	0.64	0.57	0.77	1.10	<0.1	0.1	0.1	1.2	1.6	1.8
	8381 Catch Eucalyptus PSWL	4	0.20	0.25	0.32	0.42	0.48	0.60	0.37	0.45	0.58	<0.1	0.1	0.2	1.1	1.2	1.4
	889 Catch Eucalyptus PSWL	4	0.14	0.23	0.32	0.36	0.48	0.59	0.43	0.56	0.63	<0.1	<0.1	<0.1	0.69	1.1	1.4
	888 Catch Licorice PSOM	4	0.19	0.25	0.27	0.28	0.37	0.42	0.45	0.70	1.00	<0.1	0.1	0.2	0.67	0.92	1.2
	8392 Catch Licorice PSWL	4	0.13	0.21	0.25	0.24	0.42	0.49	0.18	0.52	0.68	<0.1	<0.1	<0.1	0.51	1.1	1.3
	887 Catch Licorice PSWL	4	0.11	0.21	0.29	0.43	0.47	0.51	0.39	0.46	0.55	<0.1	<0.1	<0.1	0.93	1.2	1.4
	847 Catch Pure Mint PSW Medium	4	0.43	0.47	0.56	0.35	0.43	0.54	1.30	1.43	1.60	<0.1	0.1	0.2	1.5	1.7	2.3
821,2860,6042	Chill Catch PSWM	4	0.15	0.19	0.21	0.40	0.46	0.52	0.40	0.57	0.89	<0.1	<0.1	<0.1	1.1	1.2	1.4
	804,7455 Ettan LS	5	0.18	0.26	0.33	0.42	0.49	0.57	0.50	0.70	0.91	<0.1	<0.1	<0.1	1.0	1.3	1.4
	875,7456 Ettan PSOL	5	0.28	0.32	0.37	0.29	0.42	0.48	0.49	0.70	0.83	<0.1	0.1	0.3	0.80	1.0	1.4
	876 Ettan PSWL	4	0.10	0.18	0.24	0.43	0.45	0.49	0.34	0.44	0.51	<0.1	<0.1	<0.1	1.1	1.2	1.3
	4877 General Classic Blend PSWL	2	0.24	0.25	0.25	0.48	0.49	0.49	0.46	0.69	0.92	<0.1	<0.1	<0.1	1.8	2.0	2.1
	4800 General Dry Mint PSOM	4	0.23	0.25	0.27	0.46	0.55	0.66	0.69	0.79	1.00	<0.1	0.1	0.2	0.94	1.3	1.5
	4980 General Dry Mint PSWM	2	0.23	0.28	0.32	0.58	0.60	0.61	0.69	0.95	1.20	<0.1	<0.1	<0.1	1.4	1.6	1.7
1235,2534	General Extra Strong LS	4	0.13	0.18	0.21	0.51	0.57	0.69	0.31	0.49	0.59	<0.1	<0.1	<0.1	1.1	1.3	1.5
	850 General Extra Strong PSOL	4	0.14	0.23	0.30	0.56	0.67	0.74	0.30	0.56	0.66	<0.1	<0.1	<0.1	1.3	1.4	1.5
	6321 General Fresh Taste PSWM	2	0.12	0.16	0.20	0.43	0.43	0.43	0.46	0.51	0.55	<0.1	<0.1	<0.1	1.7	1.9	2.1
	8883 General Green Harvest PSWL	1		0.25			0.37			0.37		<0.1	<0.1			0.73	
	849 General Long PSOL	4	0.29	0.30	0.30	0.32	0.43	0.47	0.59	0.82	1.20	<0.1	0.1	0.2	1.0	1.2	1.4
	825 General Long Strong PSOL	4	0.18	0.23	0.29	0.57	0.77	0.92	0.58	0.67	0.76	<0.1	<0.1	<0.1	1.2	1.3	1.5
	852,7453 General LS	5	0.22	0.26	0.30	0.43	0.46	0.51	0.46	0.55	0.69	<0.1	<0.1	<0.1	0.88	1.2	1.4
4352,4983	General Mint PSWL	6	0.15	0.21	0.24	0.35	0.43	0.50	0.39	0.53	0.60	<0.1	<0.1	<0.1	1.2	1.5	1.7
	6655 General Mint PSWM (TW)	3	0.09	0.16	0.20	0.35	0.40	0.43	0.33	0.48	0.61	<0.1	<0.1	<0.1	1.4	1.8	2.2
	4876 General Nordic Mint PSWL	3	0.16	0.19	0.22	0.40	0.45	0.49	0.45	0.72	0.98	<0.1	<0.1	<0.1	1.5	2.0	2.4
	892 General Onyx PSWL	4	0.18	0.25	0.35	0.57	0.78	1.10	0.85	1.00	1.20	<0.1	<0.1	<0.1	0.88	1.3	2.2
	8383 General Onyx PSWL	3	0.12	0.19	0.22	0.63	0.77	1.00	0.77	0.95	1.10	<0.1	<0.1	<0.1	1.2	1.3	1.3
	6323 General Original PSWL	3	0.19	0.22	0.27	0.41	0.42	0.44	0.55	0.61	0.69	<0.1	<0.1	<0.1	1.3	1.4	1.7
	3322 General Original PSWM (TW)	3	0.14	0.19	0.23	0.35	0.38	0.39	0.42	0.45	0.47	<0.1	<0.1	<0.1	1.6	2.0	2.4
	880 General PSOL	4	0.26	0.32	0.39	0.44	0.47	0.52	0.75	0.82	0.93	<0.1	<0.1	<0.1	0.88	1.1	1.3

Code	Brand	n	Lead (ppm)			Cadmium (ppm)			Chromium (ppm)			Arsenic (ppm)			Nickel (ppm)		
			Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max
8387,7454	General PSOL	5	0.28	0.35	0.47	0.28	0.38	0.47	0.48	0.84	1.10	<0.1	0.1	0.2	0.8	1.0	1.3
879	General PSOM	4	0.30	0.34	0.43	0.31	0.41	0.47	0.49	0.68	0.82	<0.1	0.1	0.2	0.88	1.1	1.3
4981,8389	General PSWL	5	0.18	0.21	0.26	0.37	0.47	0.74	0.29	0.54	0.84	<0.1	<0.1	<0.1	0.8	1.1	1.6
881	General PSWL	4	0.20	0.24	0.31	0.43	0.49	0.54	0.42	0.57	0.73	<0.1	<0.1	<0.1	0.93	1.2	1.4
839	General PSWM	2	0.17	0.23	0.28	0.45	0.48	0.50	0.46	0.47	0.48	<0.1	<0.1	<0.1	1.1	1.2	1.3
869	General PSWM	2	0.25	0.27	0.28	0.37	0.40	0.43	0.22	0.26	0.30	<0.1	<0.1	<0.1	0.85	1.0	1.1
878	General Silver PSOL	4	0.23	0.25	0.27	0.37	0.40	0.43	0.58	0.69	0.77	<0.1	0.1	0.2	1.0	1.4	1.7
848	General Smooth Taste PSWM	3	0.43	0.49	0.52	0.33	0.39	0.45	0.87	1.39	1.80	0.2	0.2	0.3	1.2	1.5	1.8
6320	General Smooth Taste PSWM	3	0.20	0.22	0.24	0.40	0.43	0.48	0.49	0.52	0.58	<0.1	<0.1	<0.1	1.8	2.0	2.3
826	General StrongPSWL	3	0.09	0.16	0.21	0.58	0.70	0.92	0.44	0.54	0.62	<0.1	<0.1	<0.1	0.93	1.2	1.6
4882	General Wintergreen PSWL	6	0.19	0.23	0.32	0.38	0.45	0.50	0.39	0.60	1.10	<0.1	<0.1	<0.1	0.86	1.2	1.6
828	Göteborgs Prima Fint LS	4	0.17	0.28	0.40	0.37	0.43	0.51	0.37	0.67	1.10	<0.1	<0.1	<0.1	1.1	1.3	1.5
823	Göteborgs Rapé LS	4	0.22	0.25	0.27	0.34	0.42	0.49	0.47	0.73	1.10	<0.1	<0.1	<0.1	1.1	1.2	1.2
8388	Göteborgs Rapé PSWL	4	0.18	0.21	0.25	0.35	0.48	0.74	0.51	0.61	0.89	<0.1	<0.1	<0.1	1.0	1.2	1.5
874	Göteborgs Rapé PSWL	4	0.16	0.22	0.28	0.41	0.45	0.54	0.41	0.47	0.52	<0.1	<0.1	<0.1	0.90	1.1	1.4
833	Göteborgs Rapé PSWM	2	0.21	0.22	0.23	0.46	0.48	0.50	0.41	0.55	0.68	<0.1	<0.1	<0.1	1.4	1.6	1.8
873	Göteborgs Rapé PSWM	2	0.24	0.25	0.25	0.41	0.49	0.57	0.55	0.58	0.60	<0.1	0.1	0.2	1.3	1.4	1.5
893	Göteborgs Rape No2 PSWL	4	0.19	0.23	0.31	0.40	0.47	0.51	0.36	0.49	0.60	<0.1	<0.1	<0.1	0.72	1.2	1.9
844	Grov LS	4	0.26	0.31	0.35	0.40	0.44	0.48	0.43	0.58	0.73	<0.1	0.1	0.2	1.2	1.3	1.4
885	Grov PSOL	4	0.31	0.32	0.34	0.45	0.49	0.52	0.63	0.78	0.98	<0.1	0.1	0.2	0.87	1.2	1.4
884	Grov PSWL	4	0.14	0.20	0.24	0.40	0.44	0.45	0.35	0.43	0.49	<0.1	<0.1	<0.1	1.0	1.2	1.4
898	Grov Svart PSWL	4	0.10	0.16	0.24	0.54	0.71	1.00	0.71	0.98	1.40	<0.1	<0.1	<0.1	0.93	1.3	1.5
840	Kaliber PSOL	2	0.32	0.41	0.49	0.39	0.42	0.45	0.61	0.78	0.94	<0.1	0.2	0.3	0.91	1.3	1.6
841	Kaliber PSWL	2	0.21	0.23	0.24	0.49	0.64	0.78	0.68	0.73	0.78	<0.1	<0.1	<0.1	1.4	1.5	1.6
8859	Kardus Superior Blend LS	2	0.26	0.29	0.32	0.56	0.58	0.59	1.30	1.50	1.70	<0.1	0.1	0.2	1.0	1.2	1.5
802	Kronan LS	4	0.33	0.37	0.40	0.31	0.35	0.39	0.78	1.01	1.20	<0.1	<0.1	<0.1	0.93	1.1	1.2
872	Kronan PSOL	4	0.30	0.38	0.50	0.33	0.37	0.39	0.75	0.98	1.10	<0.1	0.1	0.2	1.0	1.2	1.4
8372	Kronan PSOL	4	0.33	0.43	0.49	0.27	0.32	0.37	0.86	1.02	1.20	<0.1	0.1	0.2	1.1	1.4	1.6
894	Kronan PSWL	4	0.09	0.19	0.28	0.36	0.39	0.43	0.26	0.40	0.62	<0.1	<0.1	<0.1	1.0	1.1	1.5
832	Marlboro Strong PSOL	3	0.15	0.18	0.20	0.51	0.53	0.54	0.42	0.52	0.60	<0.1	<0.1	<0.1	1.2	1.4	1.6
836	Marlboro Strong PSWL	3	0.18	0.22	0.27	0.56	0.66	0.76	0.51	0.58	0.63	<0.1	<0.1	<0.1	0.18	0.22	0.27
902	N&J Crushed Ice PSOL	2	0.26	0.29	0.32	0.73	0.80	0.87	0.53	0.76	0.99	<0.1	<0.1	<0.1	1.3	1.5	1.7
813	Nick & Johnny Strong PSWL	4	0.13	0.16	0.20	0.56	0.77	0.92	0.40	0.59	0.92	<0.1	<0.1	<0.1	0.84	1.2	1.5
814	Nick and Johnny PSOL	4	0.16	0.23	0.28	0.53	0.59	0.67	0.37	0.49	0.55	<0.1	0.1	0.2	1.3	1.4	1.8
831	Probe LS	4	0.20	0.26	0.32	0.50	0.54	0.59	0.32	0.54	0.80	<0.1	0.1	0.2	1.1	1.8	2.6

Code	Brand	n	Lead (ppm)			Cadmium (ppm)			Chromium (ppm)			Arsenic (ppm)			Nickel (ppm)		
			Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max
	871 Probe PSOL	4	0.18	0.23	0.27	0.48	0.50	0.51	0.39	0.56	0.72	<0.1	<0.1	<0.1	1.0	1.4	1.7
	808 Röda Lacket LS	4	0.22	0.30	0.42	0.43	0.46	0.49	0.27	0.52	0.94	<0.1	0.1	0.2	1.3	1.5	1.6
	8385 Röda Lacket PSWL	3	0.20	0.21	0.22	0.40	0.45	0.49	0.51	0.57	0.61	<0.1	<0.1	<0.1	1.1	1.3	1.5
	870 Röda Lacket PSWL	4	0.20	0.22	0.24	0.41	0.50	0.59	0.39	0.57	0.83	<0.1	<0.1	<0.1	0.93	1.1	1.2
	883 Tre Ankare PSWL	4	0.19	0.21	0.22	0.35	0.45	0.52	0.41	0.57	0.65	<0.1	<0.1	<0.1	1.1	1.5	1.9
	837 Tre Ankare PSWM	2	0.11	0.16	0.20	0.43	0.46	0.48	0.51	0.53	0.54	<0.1	<0.1	<0.1	1.2	1.4	1.6
	882 Tre Ankare PSWM	2	0.17	0.21	0.25	0.41	0.43	0.45	0.43	0.44	0.44	<0.1	<0.1	<0.1	1.0	1.2	1.5

All data are given on dry matter basis.

Table 10: Levels of nicotine, free nicotine and pH per product in 2011

Code	Brand	n	Nicotine finished product (%)				Free Nicotine finished product (%)			Nicotine (dry matter basis) (%)			pH			
			Target*	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Target	Min	Mean	Max
	834 01 Original Long PSOL	4	0.95	0.86	0.89	0.93	0.62	0.69	0.73	1.5	1.5	1.5	8.7	8.4	8.6	8.7
	835 02 Strong Long PSOL	4	1.5	1.4	1.5	1.6	0.94	1.14	1.30	2.4	2.6	2.8	8.6	8.3	8.5	8.6
	824 05 Strong White PSWL	1	1.4		1.3			1.20			2.5		8.7		8.9	
	860+838 Catch Collection PSWM	4	0.8	0.71	0.76	0.80	0.59	0.65	0.69	1.3	1.4	1.4	8.7	8.6	8.8	9.0
	865 Catch Dry Eucalyptus PSWM	4	1.5	1.4	1.5	1.6	0.16	0.19	0.26	1.7	1.9	2.0	7.5	7.1	7.2	7.3
	861 Catch Dry Licorice PSWM	4	1.5	1.4	1.5	1.6	0.25	0.32	0.44	1.8	1.9	2.0	7.5	7.3	7.5	7.6
	8381 Catch Eucalyptus PSWL	4	0.8	0.73	0.77	0.80	0.62	0.66	0.69	1.4	1.5	1.5	8.7	8.6	8.8	8.9
	889 Catch Eucalyptus PSWL	4	0.8	0.65	0.74	0.80	0.58	0.62	0.67	1.2	1.4	1.5	8.7	8.6	8.7	8.9
	888 Catch Licorice PSOM	4	0.8	0.68	0.72	0.76	0.53	0.59	0.66	1.2	1.3	1.4	8.6	8.6	8.7	8.8
	8392 Catch Licorice PSWL	4	0.8	0.76	0.78	0.79	0.57	0.59	0.62	1.0	1.4	1.5	8.7	8.4	8.5	8.6
	887 Catch Licorice PSWL	4	0.8	0.75	0.76	0.78	0.58	0.60	0.62	1.4	1.5	1.5	8.7	8.5	8.6	8.7
	847 Catch Pure Mint PSW Medium	4	1.0	1.0	1.1	1.2	0.65	0.74	0.91	1.5	1.7	1.9	8.5	8.3	8.4	8.6
821,2860,6042	Chill Catch PSWM	4	0.8	0.76	0.78	0.82	0.64	0.68	0.72	1.4	1.4	1.5	8.7	8.8	8.9	9.0
	804,7455 Ettan LS	5	0.75	0.67	0.73	0.78	0.56	0.65	0.70	1.3	1.5	1.7	8.4	8.7	8.9	9.0
	875,7456 Ettan PSOL	5	0.85	0.74	0.77	0.81	0.61	0.65	0.69	1.3	1.4	1.5	8.8	8.7	8.7	8.8
	876 Ettan PSWL	4	0.8	0.76	0.78	0.82	0.62	0.65	0.67	1.5	1.5	1.5	8.7	8.6	8.7	8.9
	4877 General Classic Blend PSWL	2	0.75	0.72	0.75	0.78	0.61	0.63	0.64	1.4	1.4	1.4	8.7	8.7	8.7	8.8
	4800 General Dry Mint PSOM	4	1.5	1.3	1.4	1.5	0.17	0.24	0.27	1.6	1.8	1.9	7.5	7.2	7.3	7.4
	4980 General Dry Mint PSWM	2	1.5	1.5	1.5	1.6	0.17	0.19	0.21	1.9	2.0	2.0	7.5	7.1	7.2	7.2
	1235,2534 General Extra Strong LS	4	1.2	1.2	1.2	1.2	0.99	1.01	1.05	2.3	2.4	2.5	8.5	8.7	8.8	8.8
	850 General Extra Strong PSOL	4	1.4	1.4	1.5	1.5	1.02	1.05	1.09	2.5	2.6	2.6	8.6	8.3	8.4	8.5
	6321 General Fresh Taste PSWM	2	0.8	0.76	0.77	0.79	0.48	0.50	0.52	1.4	1.5	1.5	8.1	8.2	8.3	8.4
	8883 General Green Harvest PSWL	1	0.7		0.70			0.62			1.4		8.7		8.9	
	849 General Long PSOL	4	0.95	0.82	0.88	0.92	0.64	0.71	0.76	1.4	1.5	1.6	8.7	8.6	8.7	8.8
	825 General Long Strong PSOL	4	1.5	1.4	1.5	1.5	0.88	1.05	1.22	2.3	2.5	2.6	8.6	8.2	8.4	8.6
	852,7453 General LS	5	0.75	0.67	0.72	0.76	0.55	0.63	0.66	1.3	1.5	1.6	8.4	8.7	8.8	8.9
4352,4983	General Mint PSWL	6	0.8	0.74	0.76	0.78	0.64	0.67	0.69	1.3	1.4	1.5	8.7	8.8	8.9	9.0
	6655 General Mint PSWM (TW)	3	0.8	0.71	0.74	0.77	0.42	0.44	0.49	1.4	1.4	1.4	8.1	8.1	8.2	8.3
	4876 General Nordic Mint PSWL	3	0.75	0.73	0.74	0.75	0.59	0.61	0.62	1.3	1.3	1.4	8.7	8.6	8.7	8.8
	892 General Onyx PSWL	4	1.2	1.1	1.2	1.3	0.95	1.01	1.06	2.2	2.3	2.3	8.7	8.7	8.7	8.8
	8383 General Onyx PSWL	3	1.2	1.2	1.3	1.3	1.02	1.04	1.05	2.3	2.3	2.3	8.7	8.7	8.7	8.7
	6323 General Original PSWL	3	0.8	0.75	0.79	0.82	0.58	0.64	0.71	1.4	1.5	1.6	8.7	8.5	8.7	8.8

Code	Brand	n	Nicotine finished product (%)				Free Nicotine finished product (%)			Nicotine (dry matter basis) (%)			pH			
			Target*	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Target	Min	Mean	Max
3322	General Original PSWM (TW)	3	0.8	0.70	0.72	0.73	0.40	0.42	0.44	1.3	1.3	1.3	8.1	8.2	8.2	8.2
880	General PSOL	4	0.85	0.78	0.81	0.83	0.60	0.66	0.68	1.4	1.5	1.6	8.7	8.6	8.7	8.7
8387,7454	General PSOL	5	0.85	0.75	0.79	0.83	0.56	0.62	0.66	1.4	1.5	1.6	8.7	8.4	8.6	8.7
879	General PSOM	4	0.8	0.75	0.77	0.83	0.59	0.62	0.66	1.4	1.5	1.5	8.7	8.6	8.6	8.6
4981,8389	General PSWL	5	0.8	0.73	0.78	0.81	0.60	0.64	0.67	1.4	1.5	1.6	8.7	8.7	8.7	8.7
881	General PSWL	4	0.8	0.72	0.76	0.81	0.61	0.63	0.67	1.4	1.5	1.5	8.7	8.6	8.7	8.8
839	General PSWM	2	0.8	0.73	0.74	0.75	0.61	0.63	0.65	1.4	1.5	1.5	8.7	8.7	8.8	8.9
869	General PSWM	2	0.8	0.76	0.77	0.79	0.65	0.65	0.66	1.4	1.5	1.5	8.7	8.7	8.8	8.8
878	General Silver PSOL	4	0.6	0.57	0.59	0.60	0.17	0.22	0.25	1.0	1.1	1.1	7.9	7.6	7.8	7.9
848	General Smooth Taste PSWM	3	1.0	1.0	1.0	1.1	0.61	0.71	0.78	1.6	1.6	1.7	8.5	8.2	8.4	8.5
6320	General Smooth Taste PSWM	3	1.0	0.75	0.79	0.81	0.39	0.45	0.51	1.4	1.5	1.6	8.5	8.1	8.1	8.3
826	General Strong PSWL	3	1.2	1.2	1.2	1.3	1.00	1.06	1.13	2.3	2.3	2.4	8.7	8.7	8.8	8.9
4882	General Wintergreen PSWL	6	0.8	0.75	0.82	0.86	0.61	0.66	0.69	1.3	1.5	1.5	8.7	8.5	8.6	8.7
828	Göteborgs Prima Fint LS	4	0.75	0.69	0.72	0.75	0.57	0.60	0.64	1.4	1.4	1.5	8.3	8.7	8.7	8.8
823	Göteborgs Rapé LS	4	0.75	0.67	0.70	0.77	0.58	0.61	0.64	1.4	1.5	1.5	8.4	8.7	8.9	9.0
8388	Göteborgs Rapé PSWL	4	0.8	0.70	0.77	0.81	0.61	0.65	0.69	1.3	1.5	1.6	8.7	8.7	8.7	8.8
874	Göteborgs Rapé PSWL	4	0.8	0.73	0.78	0.82	0.61	0.65	0.71	1.4	1.5	1.6	8.7	8.6	8.7	8.9
833	Göteborgs Rapé PSWM	2	0.8	0.77	0.77	0.77	0.60	0.62	0.65	1.5	1.5	1.5	8.7	8.6	8.7	8.8
873	Göteborgs Rapé PSWM	2	0.8	0.72	0.75	0.77	0.62	0.62	0.62	1.4	1.4	1.4	8.7	8.6	8.7	8.8
893	Göteborgs Rape No2 PSWL	4	0.8	0.74	0.76	0.81	0.59	0.62	0.66	1.4	1.5	1.5	8.7	8.6	8.7	8.9
844	Grov LS	4	0.75	0.69	0.71	0.73	0.58	0.62	0.64	1.5	1.5	1.5	8.4	8.8	8.8	9.0
885	Grov PSOL	4	0.52	0.74	0.77	0.81	0.55	0.60	0.64	1.3	1.4	1.5	8.7	8.5	8.5	8.6
884	Grov PSWL	4	0.8	0.68	0.74	0.81	0.57	0.61	0.66	1.4	1.5	1.5	8.7	8.7	8.7	8.8
898	Grov Svart PSWL	4	1.2	1.2	1.3	1.3	1.00	1.04	1.08	2.3	2.4	2.4	8.7	8.5	8.7	8.8
840	Kaliber PSOL	2	0.85	0.78	0.80	0.82	0.64	0.65	0.67	1.5	1.6	1.6	8.7	8.6	8.7	8.8
841	Kaliber PSWL	2	0.8	0.75	0.78	0.80	0.63	0.66	0.70	1.4	1.5	1.6	8.7	8.7	8.8	8.9
8859	Kardus Superior Blend LS	2		1.1	1.1	1.1	1.0	1.1	1.1	2.1	2.1	2.1	8.1	9.3	9.3	9.3
802	Kronan LS	4	0.75	0.70	0.72	0.76	0.58	0.63	0.66	1.5	1.5	1.6	8.4	8.7	8.9	9.1
872	Kronan PSOL	4	0.85	0.74	0.79	0.84	0.55	0.61	0.69	1.3	1.5	1.6	8.7	8.5	8.6	8.7
8372	Kronan PSOL	4	0.85	0.79	0.82	0.85	0.56	0.60	0.69	1.4	1.5	1.7	8.7	8.4	8.5	8.7
894	Kronan PSWL	4	0.8	0.70	0.75	0.77	0.55	0.61	0.63	1.3	1.4	1.5	8.7	8.6	8.7	8.7
832	Marlboro Strong PSOL	3	1.35	1.29	1.32	1.37	0.77	0.86	0.91	2.3	2.4	2.5	8.6	8.2	8.3	8.4
836	Marlboro Strong PSWL	3	1.2	1.3	1.3	1.3	1.0	1.1	1.1	2.4	2.4	2.4	8.7	8.6	8.8	8.8
902	N&J Crushed Ice PSOL	2	1.4	1.5	1.5	1.5	1.1	1.1	1.2	2.5	2.6	2.7	8.6	8.5	8.5	8.6

Code	Brand	n	Nicotine finished product (%)				Free Nicotine finished product (%)			Nicotine (dry matter basis) (%)			pH			
			Target*	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Target	Min	Mean	Max
813	Nick & Johnny Strong PSWL	4	1.2	1.0	1.2	1.3	0.9	1.0	1.1	2.0	2.3	2.4	8.7	8.7	8.8	8.9
814	Nick and Johnny PSOL	4	1.4	1.3	1.4	1.4	1.0	1.0	1.0	2.4	2.5	2.5	8.6	8.4	8.5	8.5
831	Probe LS	4	1.0	1.0	1.0	1.0	0.50	0.55	0.59	1.9	2.0	2.0	8.2	8.0	8.1	8.2
871	Probe PSOL	4	1.05	0.95	0.96	0.97	0.36	0.41	0.44	1.8	1.8	1.9	8.1	7.8	7.9	8.0
808	Röda Lacket LS	4	0.75	0.68	0.71	0.74	0.54	0.58	0.62	1.3	1.4	1.4	8.3	8.6	8.7	8.8
8385	Röda Lacket PSWL	3	0.8	0.75	0.78	0.81	0.62	0.65	0.68	1.4	1.4	1.5	8.7	8.7	8.7	8.9
870	Röda Lacket PSWL	4	0.8	0.76	0.79	0.82	0.65	0.67	0.70	1.4	1.5	1.6	8.7	8.7	8.8	8.8
883	Tre Ankare PSWL	4	0.8	0.76	0.78	0.80	0.62	0.65	0.69	1.5	1.5	1.5	8.7	8.6	8.7	8.9
837	Tre Ankare PSWM	2	0.8	0.75	0.76	0.76	0.60	0.63	0.65	1.4	1.5	1.5	8.7	8.6	8.7	8.8
882	Tre Ankare PSWM	2	0.8	0.73	0.76	0.79	0.61	0.62	0.64	1.4	1.5	1.5	8.7	8.6	8.7	8.7

*Suggested values for declaration on cans and website

Table 11: Levels of moisture, water, water activity, bacteria and humectants per product in 2011 (calculated as is)

Code Brand		n	Moisture (%)				Water content (%)			Water activity			Bacteria (log cfu/g)			Glycerol as is (%)			PG as is (%)		
			Target	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max
821,2860,6042	834 01 Original Long PSOL	3-4	46.5	45.0	45.9	47.1	39.7	41.3	42.8	0.87	0.87	0.87	2.6	3.1	3.6	<0.2	<0.2	<0.2	2.7	2.8	2.9
	835 02 Strong Long PSOL	3-4	46.5	44.6	46.3	47.7	39.0	41.2	42.8	0.84	0.86	0.88	2.7	3.1	3.3	<0.2	<0.2	<0.2	2.6	2.8	3.0
	824 05 Strong White PSWL	1	50.5		52.0			46.7			0.88			2.8			<0.2			3.0	
	860+838 Catch Collection PSWM	3-4	52.5	50.9	52.4	53.4	43.9	45.1	46.3	0.87	0.87	0.88	<2	1.4	2.3	<0.2	<0.2	<0.2	3.6	3.8	4.0
	865 Catch Dry Eucalyptus PSWM	3-4	26.0	24.7	25.1	25.4	20.5	22.1	23.4	0.67	0.67	0.67	<2	2.3	2.9	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	861 Catch Dry Licorice PSWM	3-4	26.0	24.2	24.8	25.9	20.4	22.2	23.5	0.67	0.68	0.69	<2	2.1	3.3	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	8381 Catch Eucalyptus PSWL	3-4	53.3	52.7	53.1	53.7	45.5	47.1	48.6	0.86	0.86	0.86	<2	2.0	3.1	<0.2	<0.2	<0.2	3.0	3.3	3.7
	889 Catch Eucalyptus PSWL	3-4	53.3	52.9	53.3	54.2	46.3	47.2	48.5	0.85	0.86	0.87	2.0	2.1	2.2	<0.2	<0.2	<0.2	3.2	3.4	3.5
	888 Catch Licorice PSOM	3-4	51.0	48.3	51.9	56.6	42.1	44.8	47.2	0.88	0.89	0.90	2.5	2.7	2.9	<0.2	<0.2	<0.2	3.7	3.8	3.8
	8392 Catch Licorice PSWL	3-4	53.3	52.6	53.2	54.0	21.3	41.0	48.2	0.85	0.85	0.86	<2	2.2	3.2	<0.2	<0.2	<0.2	3.0	3.2	3.5
	887 Catch Licorice PSWL	3-4	53.3	52.6	53.0	53.5	48.0	48.2	48.6	0.84	0.85	0.86	<2	1.9	2.5	<0.2	<0.2	<0.2	3.1	3.3	3.4
	847 Catch Pure Mint PSW Medium	3-4	39.0	38.4	39.4	40.1	32.7	35.9	37.6	0.80	0.81	0.81	2.2	2.4	2.6	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Chill Catch PSWM	3-4	52.5	52.8	53.1	53.3	45.6	46.4	47.0	0.87	0.87	0.87	2.0	2.4	2.9	<0.2	<0.2	<0.2	3.4	3.6	3.8
	804,7455 Ettan LS	4-5	58.0	58.3	58.5	59.0	48.8	52.3	54.2	0.88	0.88	0.88	<2	1.9	2.3	2.7	2.7	2.8	3.4	3.5	3.5
	875,7456 Ettan PSOL	4-5	51.0	49.7	51.5	53.1	43.6	46.1	48.5	0.88	0.89	0.90	<2	1.3	2.0	<0.2	<0.2	<0.2	3.6	3.6	3.7
	876 Ettan PSWL	3-4	53.3	51.8	53.0	54.2	46.3	48.3	49.5	0.86	0.87	0.87	2.3	2.8	3.2	<0.2	<0.2	<0.2	3.2	3.3	3.5
	4877 General Classic Blend PSWL	2	53.5	52.9	54.1	55.3	45.4	46.8	48.1	0.85	0.86	0.86	<2	1.5	2.0	<0.2	<0.2	<0.2	3.4	3.5	3.6
	4800 General Dry Mint PSOM	3-4	26.0	24.1	25.4	26.0	18.1	20.2	21.5	0.66	0.68	0.69	<2	1.4	2.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	4980 General Dry Mint PSWM	2	26.0	24.5	24.9	25.3	21.1	21.2	21.2	0.66	0.66	0.66	<2	<2	1.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	1235,2534 General Extra Strong LS	3-4	58.0	57.9	58.7	59.3	49.7	50.7	51.8	0.88	0.89	0.89	<2	1.3	2.0	2.7	2.7	2.8	3.3	3.3	3.4
	850 General Extra Strong PSOL	3-4	47.5	45.2	47.5	48.9	41.3	42.5	44.4	0.85	0.86	0.87	2.0	2.5	3.0	<0.2	<0.2	<0.2	2.9	3.0	3.0
	6321 General Fresh Taste PSWM	2	52.5	51.9	52.1	52.2	46.3	46.9	47.5	0.86	0.87	0.88	<2	<2	<2	<0.2	<0.2	<0.2	2.7	3.1	3.4
	8883 General Green Harvest PSWL	1	53.5		53.5			48.5			0.88			<2			<0.2			3.6	
	849 General Long PSOL	3-4	46.5	44.9	46.1	47.3	40.7	41.7	42.6	0.86	0.86	0.86	2.2	2.6	3.0	<0.2	<0.2	<0.2	2.7	2.8	2.8
	825 General Long Strong PSOL	3-4	46.5	45.1	45.6	46.4	40.4	41.2	42.3	0.85	0.86	0.87	<2	1.8	2.4	<0.2	<0.2	<0.2	2.8	2.8	2.9
	852,7453 General LS	4-5	58.0	57.9	58.4	58.8	49.9	51.6	53.0	0.88	0.88	0.88	<2	1.3	2.0	2.7	2.8	2.8	3.4	3.4	3.5
	4352,4983 General Mint PSWL	4-5	53.5	52.9	53.8	54.7	43.3	46.7	48.8	0.86	0.86	0.86	2.0	2.6	3.4	<0.2	<0.2	<0.2	2.7	3.3	3.7
	6655 General Mint PSWM (TW)	3	52.5	51.4	51.9	52.2	46.4	46.9	47.7	0.85	0.86	0.87	<2	<2	<2	<0.2	<0.2	<0.2	3.0	3.3	3.5
	4876 General Nordic Mint PSWL	2-3	53.5	53.0	53.1	53.2	43.7	45.2	46.6	0.83	0.84	0.85	<2	1.5	2.0	<0.2	<0.2	<0.2	3.4	3.6	3.8
	892 General Onyx PSWL	3-4	53.3	52.8	54.1	55.1	44.6	46.2	47.8	0.85	0.86	0.86	<2	2.0	2.9	<0.2	<0.2	<0.2	3.5	3.7	4.0
8383 General Onyx PSWL	2-3	53.3	51.9	53.2	54.0	43.7	45.2	46.2	0.85	0.85	0.85	<2	1.6	2.2	<0.2	<0.2	<0.2	3.7	3.8	3.9	
6323 General Original PSWL	2-3	53.5	52.9	53.2	53.5	45.7	47.3	49.2	0.84	0.85	0.87	<2	2.0	2.7	<0.2	<0.2	<0.2	3.0	3.2	3.3	
3322 General Original PSWM (TW)	3	52.5	52.0	52.7	53.3	45.6	46.1	47.1	0.86	0.86	0.87	<2	<2	<2	<0.2	<0.2	<0.2	3.7	3.7	3.8	

Code	Brand	n	Moisture (%)				Water content (%)			Water activity			Bacteria (log cfu/g)			Glycerol as is (%)			PG as is (%)		
			Target	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max
880	General PSOL	3-4	51.0	50.6	51.1	51.6	43.8	46.3	47.8	0.86	0.87	0.88	2.3	2.8	3.4	<0.2	<0.2	<0.2	3.3	3.4	3.5
8387,7454	General PSOL	3-4	51.0	50.5	51.6	53.3	45.7	46.7	47.5	0.87	0.89	0.90	2.5	3.0	3.7	<0.2	<0.2	<0.2	3.1	3.3	3.5
879	General PSOM	3-4	51.0	48.7	51.4	52.6	44.8	46.5	48.8	0.88	0.88	0.89	2.5	2.7	2.9	<0.2	<0.2	<0.2	3.3	3.4	3.6
4981,8389	General PSWL	4-5	53.3	52.2	53.4	54.6	47.2	49.2	51.0	0.86	0.87	0.87	<2	1.7	2.5	<0.2	<0.2	<0.2	3.0	3.2	3.3
881	General PSWL	3-4	53.3	51.7	53.7	54.8	45.7	48.3	50.4	0.85	0.85	0.85	<2	2.3	3.5	<0.2	<0.2	<0.2	2.9	3.1	3.2
839	General PSWM	2	52.5	53.7	53.8	53.9	48.7	48.8	48.9	0.87	0.87	0.87	2.4	2.4	2.4	<0.2	<0.2	<0.2	2.9	2.9	2.9
869	General PSWM	2	52.5	51.1	51.6	52.0	46.0	46.1	46.1	0.86	0.86	0.86	2.0	2.3	2.6	<0.2	<0.2	<0.2	3.1	3.2	3.3
878	General Silver PSOL	3-4	49.0	48.9	49.8	51.1	42.7	43.9	44.9	0.86	0.87	0.88	<2	1.9	2.8	<0.2	<0.2	<0.2	3.1	3.2	3.4
848	General Smooth Taste PSWM	3	39.0	39.4	39.7	39.9	37.2	37.3	37.3	0.81	0.82	0.82	2.7	2.8	2.9	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
6320	General Smooth Taste PSWM	2-3	52.2	50.5	51.7	52.5	44.8	46.3	48.5	0.86	0.86	0.87	<2	<2	<2	<0.2	<0.2	<0.2	3.0	3.5	4.0
826	General StrongPSWL	2-3	53.5	52.0	53.5	55.1	43.7	46.8	50.5	0.86	0.86	0.86	3.0	3.1	3.1	<0.2	<0.2	<0.2	3.1	3.3	3.4
4882	General Wintergreen PSWL	4-6	53.5	51.8	52.4	53.2	41.5	43.2	45.1	0.85	0.87	0.90	<2	2.3	3.0	<0.2	<0.2	<0.2	2.5	3.0	3.8
828	Göteborgs Prima Fint LS	3-4	57.0	55.7	56.5	57.1	47.6	49.4	51.4	0.88	0.88	0.89	2.3	2.5	2.6	2.7	2.7	2.8	3.7	3.7	3.7
823	Göteborgs Rapé LS	3-4	58.0	58.5	58.8	59.0	50.1	51.9	52.6	0.88	0.88	0.88	<2	1.3	2.0	3.2	3.3	3.4	3.4	3.5	3.5
8388	Göteborgs Rapé PSWL	3-4	53.3	51.9	53.5	54.4	44.9	47.6	48.8	0.86	0.86	0.87	<2	1.9	2.4	<0.2	<0.2	<0.2	3.1	3.2	3.3
874	Göteborgs Rapé PSWL	3-4	53.3	52.4	53.5	54.1	45.1	47.9	49.3	0.83	0.85	0.86	<2	1.3	2.0	<0.2	<0.2	<0.2	3.1	3.2	3.4
833	Göteborgs Rapé PSWM	2	52.5	53.1	53.4	53.6	47.6	48.5	49.4	0.86	0.86	0.86	2.9	2.9	2.9	<0.2	<0.2	<0.2	3.1	3.1	3.1
873	Göteborgs Rapé PSWM	2	52.5	52.4	53.0	53.6	46.2	46.7	47.1	0.84	0.85	0.86	2.0	2.1	2.2	<0.2	<0.2	<0.2	3.1	3.2	3.2
893	Göteborgs Rape No2 PSWL	3-4	53.3	52.5	53.7	54.6	46.7	47.5	48.2	0.87	0.87	0.87	<2	2.1	3.2	<0.2	<0.2	<0.2	3.2	3.4	3.5
844	Grov LS	3-4	58.0	58.2	58.9	59.4	49.8	51.3	52.9	0.88	0.89	0.89	<2	<2	<2	3.3	3.4	3.4	3.5	3.6	3.6
885	Grov PSOL	3-4	51.0	48.3	50.5	52.1	44.8	45.9	47.8	0.86	0.88	0.89	2.8	2.9	3.0	<0.2	<0.2	<0.2	3.3	3.4	3.6
884	Grov PSWL	3-4	53.3	53.5	54.1	54.7	46.9	49.0	49.8	0.86	0.87	0.88	2.2	2.2	2.2	<0.2	<0.2	<0.2	3.2	3.3	3.5
898	Grov Svart PSWL	3-4	53.3	53.3	54.0	55.6	45.9	46.9	48.7	0.85	0.85	0.86	2.2	2.9	3.3	<0.2	<0.2	<0.2	3.3	3.5	3.9
840	Kaliber PSOL	2	51.0	49.8	51.4	52.9	46.2	47.3	48.3	0.89	0.89	0.89	3.7	3.7	3.7	<0.2	<0.2	<0.2	3.5	3.5	3.5
841	Kaliber PSWL	2	53.0	53.6	53.8	53.9	47.1	48.5	49.8	0.86	0.86	0.86	2.4	2.4	2.4	<0.2	<0.2	<0.2	3.1	3.1	3.1
8859	Kardus Superior Blend LS	2		52.5	52.5	52.5	46.2	47.9	49.5	0.87	0.87	0.87	<2	<2	<2	0.8	0.8	0.9	<0.2	<0.2	<0.2
802	Kronan LS	3-4	58.0	58.5	58.9	59.2	51.5	51.8	52.1	0.88	0.88	0.89	<2	1.7	2.2	3.3	3.3	3.4	3.5	3.6	3.7
872	Kronan PSOL	3-4	51.0	50.7	51.4	52.4	43.8	45.9	47.3	0.88	0.88	0.88	2.7	3.1	3.8	<0.2	<0.2	<0.2	3.4	3.5	3.6
8372	Kronan PSOL	3-4	51.0	48.8	50.1	51.5	44.6	47.1	50.9	0.88	0.89	0.89	2.0	2.6	3.4	<0.2	<0.2	<0.2	3.2	3.2	3.3
894	Kronan PSWL	3-4	53.0	53.3	53.8	54.9	46.4	48.3	50.0	0.86	0.87	0.88	2.3	2.5	2.6	<0.2	<0.2	<0.2	3.0	3.1	3.3
832	Marlboro Strong PSOL	2-3	51.0	49.1	51.5	54.2	43.9	45.7	48.0	0.89	0.89	0.89	2.5	2.6	2.7	<0.2	<0.2	<0.2	3.7	3.9	4.0
836	Marlboro Strong PSWL	2-3	53.3	53.0	53.5	54.3	46.6	47.1	47.4	0.85	0.86	0.87	<2	2.0	3.0	<0.2	<0.2	<0.2	3.1	3.4	3.7
902	N&J Crushed Ice PSOL	2	47.5	47.4	48.6	49.8	41.4	42.8	44.1	0.61	0.61	0.61	<2	<2	<2	<0.2	<0.2	<0.2	3.2	3.2	3.2
813	Nick & Johnny Strong PSWL	3-4	53.3	52.4	53.8	54.6	46.0	47.3	48.5	0.87	0.87	0.87	<2	1.4	2.3	<0.2	<0.2	<0.2	3.3	3.5	4.0
814	Nick and Johnny PSOL	3-4	51.0	48.4	49.6	51.3	43.1	44.1	45.2	0.86	0.87	0.89	2.9	3.4	3.6	<0.2	<0.2	<0.2	3.0	3.2	3.4

Code	Brand	n	Moisture (%)				Water content (%)			Water activity			Bacteria (log cfu/g)			Glycerol as is (%)			PG as is (%)		
			Target	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max
831	Probe LS	3-4	54.0	54.0	54.4	54.7	47.3	48.6	49.8	0.86	0.87	0.88	<2	1.3	2.0	<0.2	<0.2	<0.2	3.6	3.7	3.8
871	Probe PSOL	3-4	51.0	49.7	51.8	53.1	47.3	47.6	47.9	0.86	0.88	0.89	<2	1.9	2.5	<0.2	<0.2	<0.2	3.4	3.5	3.6
808	Röda Lacket LS	3-4	55.5	53.4	55.4	56.6	46.5	49.2	50.6	0.88	0.88	0.88	<2	2.1	2.8	2.6	2.7	2.8	3.8	3.9	4.0
8385	Röda Lacket PSWL	2-3	53.3	51.9	53.4	54.4	44.3	45.0	45.5	0.86	0.86	0.86	2.3	2.6	2.9	<0.2	<0.2	<0.2	3.5	3.9	4.3
870	Röda Lacket PSWL	3-4	53.3	52.7	53.9	54.8	46.6	47.7	49.1	0.86	0.87	0.88	<2	<2	<2	<0.2	<0.2	<0.2	3.1	3.8	4.4
883	Tre Ankare PSWL	3-4	53.3	53.1	53.7	54.6	46.7	48.2	50.0	0.85	0.86	0.86	2.0	2.3	2.5	<0.2	<0.2	<0.2	3.0	3.2	3.3
837	Tre Ankare PSWM	2	52.5	52.6	53.1	53.6	47.6	47.9	48.2	0.87	0.87	0.87	<2	<2	<2	<0.2	<0.2	<0.2	3.0	3.0	3.0
882	Tre Ankare PSWM	2	52.5	51.6	51.9	52.1	47.2	47.7	48.1	0.85	0.86	0.87	2.3	2.6	2.8	<0.2	<0.2	<0.2	3.2	3.3	3.4

All data are given on dry matter basis.

Table 12. levels of mycotoxins and PAHs per product in 2011(dry matter basis)

Code	Brand	n	Aflatoxin B1 (ppb)	Aflatoxin B2 (ppb)	Aflatoxin G1 (ppb)	Aflatoxin G2 (ppb)	Ochratoxin (ppb)			n	Carcinogenic PAHs (ppb)	Other PAHs (ppb)
Min	Mean	Max										
834	01 Original Long PSOL	1	<0.1	<0.5	<0.5	<1	3.8	3.8	3.8	1	<300	<300
835	02 Strong Long PSOL									1	<300	610
824	05 Strong White PSWL									1	<300	<300
860+838	Catch Collection PSWM	3	<0.1	<0.5	<0.5	<1	3.7	9.6	13.0	1	<300	<300
865	Catch Dry Eucalyptus PSWM									1	<300	360
861	Catch Dry Licorice PSWM									1	<300	310
8381	Catch Eucalyptus PSWL	3	<0.1	<0.5	<0.5	<1	3.4	4.1	4.5	1	<300	<300
889	Catch Eucalyptus PSWL									1	<300	<300
888	Catch Licorice PSOM									1	<300	<300
8392	Catch Licorice PSWL	1	<0.1	<0.5	<0.5	<1	7.5	7.5	7.5	1	<300	<300
887	Catch Licorice PSWL									1	<300	<300
847	Catch Pure Mint PSW Medium									1	<300	<300
821,2860,6042	Chill Catch PSWM	4	<0.1	<0.5	<0.5	<1	3.8	5.9	7.6	1	<300	<300
804,7455	Ettan LS									1	<300	<300
875,7456	Ettan PSOL									1	<300	<300
876	Ettan PSWL	2	<0.1	<0.5	<0.5	<1	3.8	5.1	6.3	1	<300	<300
4877	General Classic Blend PSWL									1	<300	490
4800	General Dry Mint PSOM									1	<300	<300
4980	General Dry Mint PSWM	3	<0.1	<0.5	<0.5	<1	3.4	3.5	3.8	1	<300	410
1235,2534	General Extra Strong LS									1	<300	530
850	General Extra Strong PSOL									1	<300	530
6321	General Fresh Taste PSWM	2	<0.1	<0.5	<0.5	<1	5.6	6.0	6.4			
8883	General Green Harvest PSWL											
849	General Long PSOL									1	<300	<300
825	General Long Strong PSOL	4	<0.1	<0.5	<0.5	<1	2.8	4.3	5.1	1	<300	650
852,7453	General LS									1	<300	<300
4352,4983	General Mint PSWL									1	<300	<300
6655	General Mint PSWM (TW)	2	<0.1	<0.5	<0.5	<1	3.4	4.6	5.8	1	<300	<300
4876	General Nordic Mint PSWL									1	<300	<300
892	General Onyx PSWL									1	<300	<300

		n	Aflatoxin B1 (ppb)	Aflatoxin B2 (ppb)	Aflatoxin G1 (ppb)	Aflatoxin G2 (ppb)	Ochratoxin (ppb)			n	Carcinogenic PAHs (ppb)	Other PAHs (ppb)
Code	Brand						Min	Mean	Max			
8383	General Onyx PSWL	3	<0.1	<0.5	<0.5	<1	5.7	7.2	8.1	1	<300	340
6323	General Original PSWL											
3322	General Original PSWM (TW)											
880	General PSOL	3	<0.1	<0.5	<0.5	<1	2.7	3.8	4.4	1	<300	<300
8387,7454	General PSOL	1	<0.1	<0.5	<0.5	<1	5.0	5.0	5.0	1	<300	<300
879	General PSOM	3	<0.1	<0.5	<0.5	<1	4.9	6.8	7.9	1	<300	<300
4981,8389	General PSWL									1	<300	<300
881	General PSWL									1	<300	<300
839	General PSWM	1	<0.1	<0.5	<0.5	<1	6.8	6.8	6.8	1	<300	<300
869	General PSWM	3	<0.1	<0.5	<0.5	<1	2.1	2.8	3.4	1	<300	<300
878	General Silver PSOL									1	<300	<300
848	General Smooth Taste PSWM									1	<300	<300
6320	General Smooth Taste PSWM	3	<0.1	<0.5	<0.5	<1	4.0	5.6	6.5	1	<300	470
826	General StrongPSWL	3	<0.1	<0.5	<0.5	<1	4.2	4.5	4.8		<300	<300
4882	General Wintergreen PSWL										<300	<300
828	Göteborgs Prima Fint LS									1	<300	<300
823	Göteborgs Rapé LS	1	<0.1	<0.5	<0.5	<1	7.7	7.7	7.7	1	<300	<300
8388	Göteborgs Rapé PSWL									1	<300	<300
874	Göteborgs Rapé PSWL									1	<300	<300
833	Göteborgs Rapé PSWM	1	<0.1	<0.5	<0.5	<1	6.7	6.7	6.7	1	<300	<300
873	Göteborgs Rapé PSWM	2	<0.1	<0.5	<0.5	<1	4.4	5.7	7.0	1	<300	<300
893	Göteborgs Rape No2 PSWL	3	<0.1	<0.5	<0.5	<1	2.4	3.1	4.1		<300	<300
844	Grov LS										1	<300
885	Grov PSOL									1	<300	<300
884	Grov PSWL	2	<0.1	<0.5	<0.5	<1		<0.5		1	<300	<300
898	Grov Svart PSWL									1	<300	<300
840	Kaliber PSOL									1	<300	<300
841	Kaliber PSWL	3	<0.1	<0.5	<0.5	<1	2.7	3.8	4.8	1	<300	<300
8859	Kardus Superior Blend LS									1	<300	<300
802	Kronan LS									1	<300	<300
872	Kronan PSOL	3	<0.1	<0.5	<0.5	<1	2.9	4.4	6.3	1	<300	<300

		n	Aflatoxin B1 (ppb)	Aflatoxin B2 (ppb)	Aflatoxin G1 (ppb)	Aflatoxin G2 (ppb)	Ochratoxin (ppb)			n	Carcinogenic PAHs (ppb)	Other PAHs (ppb)
Code	Brand						Min	Mean	Max			
8372	Kronan PSOL	3	<0.1	<0.5	<0.5	<1	3.3	3.8	4.6	1	<300	<300
894	Kronan PSWL									1	<300	<300
832	Marlboro Strong PSOL									1	<300	800
836	Marlboro Strong PSWL									1	<300	510
902	N&J Crushed Ice PSOL									1	<300	310
813	Nick & Johnny Strong PSWL									1	<300	440
814	Nick and Johnny PSOL									1	<300	480
831	Probe LS									1	<300	<300
871	Probe PSOL									1	<300	<300
808	Röda Lacket LS									1	<300	<300
8385	Röda Lacket PSWL									1	<300	<300
870	Röda Lacket PSWL									1	<300	<300
883	Tre Ankare PSWL									1	<300	330
837	Tre Ankare PSWM									1	<300	<300
882	Tre Ankare PSWM									1	<300	<300

All data are given on dry matter basis.

Table 13. Levels of formaldehyde, ammonia, ethanol and ethyl carbamate per product in 2011.

Code	Brand	n	Formaldehyde (ppm)	Ammonia (mg/g)			Ethanol (%)			Ethyl Carbamate (ppb)			Acrylamide (ppb)		
				Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max
834	01 Original Long PSOL	1-4	14.0	1.3	1.5	1.7	0.36	0.54	0.86	<30	53	70	560	585	610
835	02 Strong Long PSOL	1-4	15.8	2.4	2.6	2.7	0.39	0.52	0.73	<30	33	85	820	890	960
824	05 Strong White PSWL	0-1			3.7			1.03			<30			620	
860+838	Catch Collection PSWM	1-4	24.1	2.0	2.3	2.5	1.70	3.32	5.16	<30	50	73	730	820	910
865	Catch Dry Eucalyptus PSWM	1-4	23.5	1.6	1.9	2.1	0.02	0.39	0.61	<30	<30	<30	760	880	1000
861	Catch Dry Licorice PSWM	1-4	26.9	3.0	3.3	3.8	0.22	0.78	1.21	<30	68	109	750	1225	1700
8381	Catch Eucalyptus PSWL	1-4	25.8	1.9	2.2	2.5	1.08	1.27	1.49	<30	20	34	850	915	980
889	Catch Eucalyptus PSWL	1-4	24.3	1.5	2.0	2.3	0.71	1.63	3.58	<30	<30	<30	950	975	1000
888	Catch Licorice PSOM	1-4	27.8	3.5	3.7	3.9	0.43	0.76	1.13	<30	88	<307	550	925	1300
8392	Catch Licorice PSWL	1-4	23.2	3.7	4.6	5.1	0.53	0.99	1.48	<30	<30	<30	500	620	740
887	Catch Licorice PSWL	1-4	21.3	4.1	4.9	5.2	0.58	0.94	1.15	<30	<30	<30	810	905	1000
847	Catch Pure Mint PSW Medium	1-4	32.9	1.0	1.4	1.6	0.17	0.76	1.31	<30	32	60	480	495	510
821,2860,6042	Chill Catch PSWM	1-4	18.3	1.1	1.9	2.3	2.40	3.19	3.49	<30	40	114	790	800	810
804,7455	Ettan LS	1-5	13.1	1.5	1.8	2.2	0.38	0.47	0.52	<30	<30	<30	1400	1633	2000
875,7456	Ettan PSOL	1-5	21.4	0.8	1.0	1.1	0.18	0.30	0.39	<30	<30	<30	380	493	690
876	Ettan PSWL	1-4	21.8	1.9	2.2	2.5	0.60	0.85	1.08	<30	<30	<30	960	1030	1100
4877	General Classic Blend PSWL	0-2		2.2	2.3	2.3	0.21	0.27	0.33	<30	<30	<30	980	980	980
4980	General Dry Mint PSOM	1-4	12.9	2.1	2.2	2.2	0.12	0.12	0.12	<30	<30	<30	650	775	900
4800	General Dry Mint PSWM	1-2	24.2	1.6	1.8	2.0	0.16	0.29	0.38	<30	24	51	880	900	920
1235,253	General Extra Strong LS	1-4	7.3	2.4	2.6	2.8	0.64	0.71	0.79	<30	<30	<30	1500	1500	1500
850	General Extra Strong PSOL	1-4	29.7	3.8	3.9	3.9	0.29	0.37	0.49	<30	46	63	720	960	1200
6321	General Fresh Taste PSWM	0-2		2.2	2.2	2.2	1.53	1.68	1.82	<30	23	31	770	770	770
8883	General Green Harvest PSWL	0-1			1.7			0.26			<30			590	
849	General Long PSOL	1-4	20.7	1.3	1.7	1.9	0.11	0.20	0.27	<30	<30	<30	680	990	1300
825	General Long Strong PSOL	1-4	21.7	2.2	2.5	2.7	0.08	0.45	0.70	<30	26	60	620	1010	1400
852,7453	General LS	1-5	12.1	1.0	1.6	2.0	0.36	0.47	0.53	<30	<30	<30	1200	1500	1800
4352,498	General Mint PSWL	1-5	15.0	2.1	2.3	2.4	0.90	2.15	3.50	<30	<30	<30	780	923	1200
6655	General Mint PSWM (TW)	0-3		2.1	2.4	2.6	0.22	0.36	0.46	<30	<30	<30	920	920	920
4876	General Nordic Mint PSWL	1-3	19.2	2.0	2.1	2.2	0.29	0.42	0.54	<30	<30	<30	860	895	930
892	General Onyx PSWL	1-4	16.1	3.4	5.1	5.9	1.63	3.40	5.44	<30	65	<305	900	1000	1100

Code	Brand	n	Formaldehyde (ppm)	Ammonia (mg/g)			Ethanol (%)			Ethyl Carbamate (ppb)			Acrylamide (ppb)		
				Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max
8383	General Onyx PSWL	1-3	13.8	5.5	5.7	5.9	2.00	3.99	4.99	32	60	75	930	930	930
6323	General Original PSWL	0-3		2.1	2.3	2.5	0.58	0.62	0.67	<30	<30	<30	1300	1300	1300
3322	General Original PSWM (TW)	0-3		2.3	2.3	2.3	0.22	0.36	0.50	<30	<30	<30	970	970	970
880	General PSOL	1-4	28.0	1.6	1.7	1.8	0.19	0.24	0.31	<30	<30	<30	720	850	980
8387,745	General PSOL	1-4	21.4	1.6	1.8	2.1	0.14	0.26	0.38	<30	<30	<30	760	817	890
879	General PSOM	1-4	25.0	1.3	1.6	1.7	0.07	0.15	0.21	<30	<30	<30	810	845	880
4981,839	General PSWL	1-5	28.8	2.1	2.4	2.8	0.42	0.58	0.68	<30	<30	<30	710	940	1300
881	General PSWL	1-4	18.1	2.0	2.2	2.5	0.41	0.55	0.66	<30	<30	<30	730	915	1100
839	General PSWM	1-2	34.1	1.9	2.2	2.5	0.52	0.55	0.57	<30	<30	<30	990	1045	1100
869	General PSWM	0-2		2.0	2.0	2.0	0.43	0.43	0.43	<30	<30	<30			
878	General Silver PSOL	1-4	18.5	0.9	1.0	1.1	0.42	0.60	0.78	<30	<30	<30	900	1100	1300
848	General Smooth Taste PSWM	1-3	36.7	1.5	1.6	1.8	0.19	0.53	1.15	<30	<30	<30	390	435	480
6320	General Smooth Taste PSWM	0-3		2.4	2.5	2.6	0.38	1.09	1.51	<30	<30	<30	920	920	920
826	General StrongPSWL	1-3	21.2	1.6	2.5	3.3	0.82	1.25	1.80	<30	<30	<30	1000	1000	1000
4882	General Wintergreen PSWL	1-6	14.2	2.0	2.3	2.5	2.40	4.02	4.92	<30	76	132	680	800	1100
828	Göteborgs Prima Fint LS	1-4	7.1	1.6	1.9	2.3	0.46	0.66	0.76	<30	31	79	700	765	830
823	Göteborgs Rapé LS	1-4	12.8	1.6	1.7	2.0	0.30	0.50	0.58	<30	<30	<30	1300	1500	1700
8388	Göteborgs Rapé PSWL	1-4	27.3	2.0	2.2	2.5	0.62	0.80	0.92	<30	<30	<30	970	1085	1200
874	Göteborgs Rapé PSWL	1-4	20.2	1.9	2.2	2.7	0.67	0.78	0.94	<30	<30	<30	1100	1200	1300
833	Göteborgs Rapé PSWM	1-2	21.0	2.5	2.6	2.6	0.77	0.82	0.86	<30	<30	<30	940	970	1000
873	Göteborgs Rapé PSWM	0-2		1.9	2.1	2.2	0.33	0.53	0.73	<30	<30	<30			
893	Göteborgs Rape No2 PSWL	1-4	21.2	2.1	2.3	2.5	1.20	1.52	1.68	<30	<30	<30	850	975	1100
844	Grov LS	1-4	12.1	1.4	1.6	1.9	0.62	0.70	0.75	<30	<30	<30	1400	1750	2100
885	Grov PSOL	1-4	16.7	1.4	1.5	1.7	0.35	0.49	0.61	<30	28	67	700	790	880
884	Grov PSWL	1-4	23.9	1.9	2.1	2.2	0.80	1.06	1.34	<30	<30	<30	1200	1250	1300
898	Grov Svart PSWL	1-4	10.3	2.5	3.0	3.2	1.90	3.21	3.82	<30	34	91	870	915	960
840	Kaliber PSOL	1-2	22.3	1.1	1.4	1.7	0.25	0.26	0.27	<30	<30	<30	900	950	1000
841	Kaliber PSWL	1-2	25.5	2.3	2.4	2.5	0.55	0.76	0.96	<30	<30	<30	880	940	1000
8859	Kardus Superior Blend LS	0-2		2.2	2.4	2.5	2.34	2.39	2.44	<30	<30	<30	600	650	700
802	Kronan LS	1-4	14.3	1.4	1.5	1.6	0.58	0.83	1.01	<30	<30	<30	1300	1400	1500
872	Kronan PSOL	1-4	27.0	1.4	1.5	1.6	0.22	0.40	0.51	<30	31	79	680	705	730
8372	Kronan PSOL	1-4	16.5	1.4	1.6	1.8	0.35	0.39	0.47	<30	<30	<30	630	695	760

Code	Brand	n	Formaldehyde (ppm)	Ammonia (mg/g)			Ethanol (%)			Ethyl Carbamate (ppb)			Acrylamide (ppb)		
				Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max
894	Kronan PSWL	1-4	26.4	1.7	2.1	2.8	0.73	0.79	0.84	<30	<30	<30	820	1060	1300
832	Marlboro Strong PSOL	1-3	14.0	2.2	2.4	2.5	0.24	0.46	0.76	<30	<30	<30	840	890	940
836	Marlboro Strong PSWL	1-3	19.0	1.7	2.7	3.5	1.44	2.00	2.31	<30	22	37	770	835	900
902	N&J Crushed Ice PSOL	1-2	22.4	2.3	2.3	2.3	0.98	1.07	1.16	123	128	132	750	925	1100
813	Nick & Johnny Strong PSWL	1-4	20.4	2.4	3.4	4.1	0.68	1.98	3.15	<30	<30	<30	900	930	960
814	Nick and Johnny PSOL	1-4	22.8	3.3	3.7	3.9	0.39	0.45	0.51	<30	20	33	870	1135	1400
831	Probe LS	1-4	9.4	1.5	1.7	1.9	0.70	0.96	1.08	<30	<30	<30	5200	5400	5600
871	Probe PSOL	1-4	14.4	1.3	1.5	1.7	0.44	0.60	0.76	<30	<30	<30	520	750	980
808	Röda Lacket LS	1-4	9.0	1.5	1.7	2.1	0.43	0.55	0.63	<30	29	70	610	855	1100
8385	Röda Lacket PSWL	1-3	22.9	2.0	2.3	2.6	1.41	2.37	3.39	<30	47	67	820	820	820
870	Röda Lacket PSWL	1-4	19.1	2.3	2.6	3.0	1.10	2.16	3.28	<30	<30	<30	850	920	990
883	Tre Ankare PSWL	1-4	22.0	2.2	2.3	2.4	0.55	0.80	0.97	<30	<30	<30	1000	1100	1200
837	Tre Ankare PSWM	1-2	23.2	1.7	2.0	2.3	0.49	0.69	0.88	<30	<30	<30	970	985	1000
882	Tre Ankare PSWM	0-2		2.0	2.2	2.3	0.71	0.74	0.76	<30	<30	<30			

All data are given on dry matter basis.

Table 13. Introduced and removed products 2011

Item no	Product name	Market	First date of manufacturing	Comment
6322	GENERAL TITANIUM PSWL 24g	Canada	August 2011	New product (similar to existing Swedish product 892 GENERAL ONYX PSWL 24g, alternative package and name).
9782	GENERAL PSWM 10g	Duty Free	April 2011	Replaces removed product (9769 GENERAL PSWM 10g). New can with star filling, new item number.
4332	01 ORIGINAL LONG PSOL 21,6g	Norway	November 2010	Replaces removed product (4232 01 ORIGINAL LONG PSOL 24g). Reduced weight; reduced no. of pouches.
5345	02 STRONG LONG PSOL 21,6g	Norway	November 2010	Replaces removed product (5645 02 STRONG LONG PSOL 24g). Reduced weight; reduced no. of pouches.
8342	05 STRONG WHITE PSWL 21,6g	Norway	August 2011	New product (similar to new Swedish product 824 05 STRONG WHITE PSWL 21,6g).
3765	06 EXTRA STRONG LONG PSOL 21,6g	Norway	April 2011	New product (similar to new Swedish product 901 06 EXTRA STRONG LONG PSOL 21,6g).
8381	CATCH EUCALYPTUS PSWL 21,6g	Norway	November 2010	Replaces removed product (8291 CATCH EUCALYPTUS PSWL 24g). Reduced weight; reduced pouch weight.
8392	CATCH LICORICE PSWL 21,6g	Norway	November 2010	Replaces removed product (8292 CATCH LICORICE PSWL 24g). Reduced weight; reduced pouch weight.
2861	CHILL CATCH PSWM 10g	Norway	April 2011	Replaces removed product (2860 CHILL CATCH PSWM 10g). New can with star filling, new item number.
8304	ETTAN LS 42g	Norway	October 2011	Replaces removed product (8204 ETTAN LS 45g). Reduced product weight.
1335	GENERAL EXTRA STRONG LS 42g	Norway	October 2011	Replaces removed product (1235 GENERAL EXTRA STRONG LS 45g). Reduced product weight.
8366	GENERAL LONG STRONG PSOL 21,6g	Norway	December 2010	Replaces removed product (8367 GENERAL LONG STRONG PSOL 24g). Reduced weight; reduced no. of pouches.
8352	GENERAL LS 42g	Norway	October 2011	Replaces removed product (8252 GENERAL LS 45g). Reduced product weight.
8383	GENERAL ONYX PSWL 21,6g	Norway	December 2010	Replaces removed product (8283 GENERAL ONYX PSWL 24g). Reduced weight; reduced pouch weight.
8387	GENERAL PSOL 21,6g	Norway	December 2010	Replaces removed product (8287 GENERAL PSOL 24g). Reduced weight; reduced pouch weight.
8389	GENERAL PSWL 21,6g	Norway	December 2010	Replaces removed product (8289 GENERAL PSWL 24g). Reduced weight; reduced pouch weight.
8270	GENERAL PSWM 10g	Norway	April 2011	Replaces removed product (8269 GENERAL PSWM 10g). New can with star filling, new item number.
3512	GENERAL SMOOTH PSW MEDIUM 13g	Norway	January 2011	New product (similar to new Swedish product 848 GENERAL SMOOTH PSW MEDIUM 13g).
8378	GENERAL STRONG PSWL 21,6g	Norway	November 2010	Replaces removed product (8278 GENERAL STRONG PSWL 24g). Reduced weight; reduced pouch weight.
8344	GROV LS 42g	Norway	October 2011	Replaces removed product (8244 GROV LS 45g). Reduced product weight.
8388	GÖTEBORGS RAPÉ PSWL 21,6g	Norway	November 2010	Replaces removed product (8288 GÖTEBORGS RAPÉ PSWL 24g). Reduced weight; reduced pouch weight.
8866	KARDUS SUPERIOR BLEND LS 100g	Norway	September 2011	New product (similar to existing Swedish product 8859 KARDUS SUPERIOR BLEND LS 100g).
8372	KRONAN PSOL 21,6g	Norway	December 2010	Replaces removed product (8272 KRONAN PSOL 24g). Reduced weight; reduced pouch weight.
1978	MARLBORO STRONG PSOL 21,6g	Norway	December 2010	New product (similar to new Swedish product 832 MARLBORO STRONG PSOL 21,6g).
1876	MARLBORO STRONG PSWL 21,6g	Norway	December 2010	New product (similar to new Swedish product 836 MARLBORO STRONG PSWL 21,6g).
1987	NICK & JOHNNY CRUSHED ICE PSOL 24g	Norway	April 2011	New product (similar to new Swedish product 902 NICK & JOHNNY CRUSHED ICE PSOL 24g).
8360	NICK & JOHNNY PSOL 21,6g	Norway	November 2010	Replaces removed product (8260 NICK & JOHNNY PSOL 24g). Reduced weight; reduced pouch weight.
1356	NICK & JOHNNY STRONG WHITE PSWL 21,6g	Norway	December 2010	Replaces removed product (1256 NICK & JOHNNY STRONG WHITE PSWL 24g). Reduced weight; reduced pouch weight.
8308	RÖDA LACKET LS 42g	Norway	October 2011	Replaces removed product (8208 RÖDA LACKET LS 45g). Reduced product weight.
8385	RÖDA LACKET PSWL 21,6g	Norway	November 2010	Replaces removed product (8285 RÖDA LACKET PSWL 24g). Reduced weight; reduced pouch weight.
1896	PARLIAMENT INTENSE CREATION PSWM 7,5g	Russia	September 2011	New product.
1897	PARLIAMENT MINT CREATION PSWM 7,5g	Russia	September 2011	New product.
1898	PARLIAMENT ORIGINAL CREATION PSWM 7,5g	Russia	September 2011	New product.
834	01 ORIGINAL LONG PSOL 21,6g	Sweden	December 2010	Replaces removed product (3542 01 ORIGINAL LONG PSOL 24g). Reduced weight; reduced no. of pouches.
835	02 STRONG LONG PSOL 21,6g	Sweden	November 2010	Replaces removed product (6743 02 STRONG LONG PSOL 24g). Reduced weight; reduced no. of pouches.
824	05 STRONG WHITE PSWL 21,6g	Sweden	August 2011	New product (also launched in Norway as 8342 05 STRONG WHITE PSWL 21,6g).
901	06 EXTRA STRONG LONG PSOL 21,6g	Sweden	August 2011	New product (also launched in Norway as 3765 06 EXTRA STRONG LONG PSOL 21,6g).
8884	BELOW ZERO STRONG MINT PSOL 18g	Sweden	August 2011	New product (similar to new Swedish product 902 NICK & JOHNNY CRUSHED ICE PSOL 24g, with alternative name and package size).
860	CATCH COLLECTION CHILL PSWM 10g (Vanilla Mint)	Sweden	January 2011	New taste of existing product, replaces 860 CATCH COLLECTION EASE PSWM 10g (Orange Ginger).
838	CATCH COLLECTION STILL PSWM 10g (Violet Licorice)	Sweden	April 2011	New taste of existing product, change of item number with new can. Replaces 860 CATCH COLLECTION CHILL PSWM 10g (Vanilla Mint).
838	CATCH COLLECTION THRILL PSWM 10g (Raspberry Pepper)	Sweden	September 2011	New taste of existing product, replaces 838 CATCH COLLECTION STILL PSWM 10g (Violet Licorice).
8885	CATCH EUCALYPTUS LIMITED DESIGN EDITION TR PSWL 24g	Sweden	October 2011	Existing product (889 CATCH EUCALYPTUS PSWL 24g) with alternative branding.
8886	CATCH LICORICE LIMITED DESIGN EDITION TR PSWL 24g	Sweden	October 2011	Existing product (887 CATCH LICORICE PSWL 24g) with alternative branding.
8845	CATCH PURE MINT PSW MEDIUM SACHEER 2g	Sweden	March 2011	Existing product (847 CATCH PURE MINT PSW MEDIUM 13g) with alternative package and product weight.
821	CHILL CATCH PSWM 10g	Sweden	April 2011	Replaces removed product (6042 CHILL CATCH PSWM 10g). New can with star filling, new item number.
7455	ETTAN TRAVELPACK LS 50g	Sweden	April 2011	Existing product (804 ETTAN LS 45g) with increased product weight.

Item no	Product name	Market	First date of manufacturing	Comment
7456	ETTAN VALUEPACK PSOL 27g	Sweden	April 2011	Existing product (875 ETTAN PSOL 24g) with increased product weight (reduced pouch weight, increased no. of pouches).
818	GENERAL EXTRA STRONG LS 42g	Sweden	October 2011	Replaces removed product (2534 GENERAL EXTRA STRONG LS 45g). Reduced product weight.
8883	GENERAL GREEN HARVEST PSWL 24g	Sweden	August 2011	New product.
825	GENERAL LONG STRONG PSOL 21,6g	Sweden	December 2010	Replaces removed product (842 GENERAL LONG STRONG PSOL 24g). Reduced weight; reduced no. of pouches.
839	GENERAL PSWM 10g	Sweden	April 2011	Replaces removed product (869 GENERAL PSWM 10g). New can with star filling, new item number.
848	GENERAL SMOOTH PSW MEDIUM 13g	Sweden	November 2010	New product (also launched in Norway as 3512 GENERAL SMOOTH PSW MEDIUM 13g).
826	GENERAL STRONG PSWL 21,6g	Sweden	November 2010	Replaces removed product (856 GENERAL STRONG PSWL 24g). Reduced weight; reduced pouch weight.
7453	GENERAL TRAVELPACK LS 50g	Sweden	April 2011	Existing product (852 GENERAL LS 45g) with increased product weight.
7454	GENERAL VALUEPACK PSOL 27g	Sweden	April 2011	Existing product (880 GENERAL PSOL 24g) with increased product weight (reduced pouch weight, increased no. of pouches).
900	GROVSNUS 2-PACK PSOL 24g	Sweden	April 2011	Existing product (885 GROV PSOL 24g) in a two can roll. Limited edition.
903	GÖTEBORGS RAPÉ LIMITED DESIGN EDITION PSWL 24g	Sweden	May 2011	Existing product (874 GÖTEBORGS RAPÉ PSWL 24g) in a limited design edition.
833	GÖTEBORGS RAPÉ PSWM 10g	Sweden	April 2011	Replaces removed product (873 GÖTEBORGS RAPÉ PSWM 10g). New can with star filling, new item number.
840	KALIBER ORIGINAL PORTION PSOL 21,6g	Sweden	February 2011	New product.
841	KALIBER VIT PORTION PSWL 19,2g	Sweden	February 2011	New product.
832	MARLBORO STRONG PSOL 21,6g	Sweden	December 2010	New product (also launched in Norway as 1978 MARLBORO STRONG PSOL 21,6g).
836	MARLBORO STRONG PSWL 21,6g	Sweden	December 2010	New product (also launched in Norway as 1876 MARLBORO STRONG PSWL 21,6g).
902	NICK & JOHNNY CRUSHED ICE PSOL 24g	Sweden	April 2011	New product (also launched in Norway as 1987 NICK & JOHNNY CRUSHED ICE PSOL 24g).
814	NICK & JOHNNY PSOL 21,6g	Sweden	November 2010	Replaces removed product (895 NICK & JOHNNY PSOL 24g). Reduced weight; reduced pouch weight.
813	NICK & JOHNNY STRONG WHITE PSWL 21,6g	Sweden	December 2010	Replaces removed product (4521 NICK & JOHNNY STRONG WHITE PSWL 24g). Reduced weight; reduced pouch weight.
8562	ONICO ENBÄR PSWL SACHÉER 2g	Sweden	February 2011	Existing product (9416 ONICO ENBÄR PSWL 24g) with alternative package and product weight.
8565	ONICO PEPPARMINT PSWL SACHÉER 2g	Sweden	March 2011	Existing product (9414 ONICO PEPPARMINT PSWL 24g) with alternative package and product weight.
8776	ONICO PSWL SACHÉER 2g	Sweden	February 2011	Existing product (9412 ONICO PSWL 24g) with alternative package and product weight.
9419	ONICO PSWM 10g	Sweden	April 2011	Replaces removed product (9418 ONICO PSWM 10g). New can with star filling, new item number.
8432	ONICO PSWM SACHÉER 1g	Sweden	March 2011	Existing product (9418 ONICO PSWM 10g) with alternative package and product weight.
837	TRE ANKARE PSWM 10g	Sweden	April 2011	Replaces removed product (882 TRE ANKARE PSWM 10g). New can with star filling, new item number.
6656	MARLBORO MINT PSWM 10g	Taiwan	October 2011	New product.
6657	MARLBORO ORIGINAL PSWM 10g	Taiwan	October 2011	New product.
4978	ETTAN LS 45g	USA	March 2011	New product (similar to existing Swedish product 804 ETTAN LS 45g).
4123	ETTAN PSOL 24g	USA	April 2011	New product (similar to existing Swedish product 875 ETTAN PSOL 24g).
4877	GENERAL CLASSIC BLEND PSWL 13,5g	USA	October 2010	New product.
8002	GENERAL CLASSIC BLEND SAMPLE CAN PSWL 7,2g	USA	October 2010	New product (similar to new US product 4877 GENERAL CLASSIC BLEND PSWL 13,5g, alternative product weight; less pouches - sample size).
8103	GENERAL CLASSIC BLEND TRIAL CAN PSWL 9g	USA	October 2010	New product (similar to new US product 4877 GENERAL CLASSIC BLEND PSWL 13,5g, alternative product weight; less pouches - trial size).
4980	GENERAL DRY MINT PSWM SACHÉER 1,2g	USA	July 2011	Existing product (4800 GENERAL DRY MINT PSWM 6g) with alternative package and product weight.
4983	GENERAL MINT PSWL SACHÉER 4g	USA	July 2011	Existing product (4352 GENERAL MINT PSWL 24g) with alternative package and product weight.
4876	GENERAL NORDIC MINT PSWL 13,5g	USA	October 2010	New product.
8943	GENERAL NORDIC MINT SAMPLE CAN PSWL 7,2g	USA	October 2010	New product (similar to new US product 4876 GENERAL NORDIC MINT PSWL 13,5g, alternative product weight; less pouches - sample size).
8345	GENERAL NORDIC MINT TRIAL CAN PSWL 9g	USA	October 2010	New product (similar to new US product 4876 GENERAL NORDIC MINT PSWL 13,5g, alternative product weight; less pouches - trial size).
4981	GENERAL PSWL SACHÉER 4g	USA	July 2011	Existing product (4881 GENERAL PSWL 24g) with alternative package and product weight.
4982	GENERAL WINTERGREEN PSWL SACHÉER 4g	USA	July 2011	Existing product (4882 GENERAL WINTERGREEN PSWL 24g) with alternative package and product weight.
9769	GENERAL PSWM 10g	Duty Free	April 2011	Removed, replaced with similar product with new can and new item number (9782 GENERAL PSWM 10g).
4232	01 ORIGINAL LONG PSOL 24g	Norway	December 2010	Removed, replaced with similar product with reduced weight (4332 01 ORIGINAL LONG PSOL 21,6g).
5645	02 STRONG LONG PSOL 24g	Norway	December 2010	Removed, replaced with similar product with reduced weight (5345 02 STRONG LONG PSOL 21,6g).
8291	CATCH EUCALYPTUS PSWL 24g	Norway	December 2010	Removed, replaced with similar product with reduced weight (8381 CATCH EUCALYPTUS PSWL 21,6g).
8292	CATCH LICORICE PSWL 24g	Norway	December 2010	Removed, replaced with similar product with reduced weight (8392 CATCH LICORICE PSWL 21,6g).
2860	CHILL CATCH PSWM 10g	Norway	April 2011	Removed, replaced with similar product with new can and new item number (2861 CHILL CATCH PSWM 10g).
8204	ETTAN LS 45g	Norway	October 2011	Removed, replaced with similar product with reduced weight (8304 ETTAN LS 42g).
1235	GENERAL EXTRA STRONG LS 45g	Norway	October 2011	Removed, replaced with similar product with reduced weight (1335 GENERAL EXTRA STRONG LS 42g).
8367	GENERAL LONG STRONG PSOL 24g	Norway	December 2010	Removed, replaced with similar product with reduced weight (8366 GENERAL LONG STRONG PSOL 21,6g).

Item no	Product name	Market	First date of manufacturing	Comment
8252	GENERAL LS 45g	Norway	October 2011	Removed, replaced with similar product with reduced weight (8352 GENERAL LS 42g).
8283	GENERAL ONYX PSWL 24g	Norway	December 2010	Removed, replaced with similar product with reduced weight (8383 GENERAL ONYX PSWL 21,6g).
8287	GENERAL PSOL 24g	Norway	December 2010	Removed, replaced with similar product with reduced weight (8387 GENERAL PSOL 21,6g).
8289	GENERAL PSWL 24g	Norway	December 2010	Removed, replaced with similar product with reduced weight (8389 GENERAL PSWL 21,6g).
8269	GENERAL PSWM 10g	Norway	April 2011	Removed, replaced with similar product with new can and new item number (8270 GENERAL PSWM 10g).
8278	GENERAL STRONG PSWL 24g	Norway	December 2010	Removed, replaced with similar product with reduced weight (8378 GENERAL STRONG PSWL 21,6g).
8244	GROV LS 45g	Norway	September 2011	Removed, replaced with similar product with reduced weight (8344 GROV LS 42g).
8288	GÖTEBORGS RAPÉ PSWL 24g	Norway	December 2010	Removed, replaced with similar product with reduced weight (8388 GÖTEBORGS RAPÉ PSWL 21,6g).
8272	KRONAN PSOL 24g	Norway	December 2010	Removed, replaced with similar product with reduced weight (8372 KRONAN PSOL 21,6g).
8260	NICK & JOHNNY PSOL 24g	Norway	December 2010	Removed, replaced with similar product with reduced weight (8360 NICK & JOHNNY PSOL 21,6g).
1256	NICK & JOHNNY STRONG WHITE PSWL 24g	Norway	December 2010	Removed, replaced with similar product with reduced weight (1356 NICK & JOHNNY STRONG WHITE PSWL 21,6g).
8208	RÖDA LACKET LS 45g	Norway	October 2011	Removed, replaced with similar product with reduced weight (8308 RÖDA LACKET LS 42g).
8285	RÖDA LACKET PSWL 24g	Norway	December 2010	Removed, replaced with similar product with reduced weight (8385 RÖDA LACKET PSWL 21,6g).
1865	CATCH DRY EUCALYPTUS PSWM 6g	Russia	[Not produced in 2011]	Removed from Russian market.
1873	CATCH LAVENDER PSWM 10g	Russia	[Not produced in 2011]	Removed from Russian market.
1805	ETTAN LS 45g	Russia	[Not produced in 2011]	Removed from Russian market.
1875	ETTAN PSOL 24g	Russia	[Not produced in 2011]	Removed from Russian market.
1852	GENERAL LS 45g	Russia	[Not produced in 2011]	Removed from Russian market.
1880	GENERAL PSOL 24g	Russia	[Not produced in 2011]	Removed from Russian market.
1881	GENERAL PSWL 24g	Russia	[Not produced in 2011]	Removed from Russian market.
1869	GENERAL PSWM 10g	Russia	[Not produced in 2011]	Removed from Russian market.
3542	01 ORIGINAL LONG PSOL 24g	Sweden	December 2010	Removed, replaced with similar product with reduced weight (834 01 ORIGINAL LONG PSOL 21,6g).
6743	02 STRONG LONG PSOL 24g	Sweden	December 2010	Removed, replaced with similar product with reduced weight (835 02 STRONG LONG PSOL 21,6g).
2743	BENGT SÄNDH FIN COGNAC SNUSSATS 1kg	Sweden	December 2010	Removed from market.
2843	BENGT SÄNDH FIN COGNAC SNUSSATS 2kg	Sweden	December 2010	Removed from market.
2343	BENGT SÄNDH FIN NATURELL SNUSSATS 1kg	Sweden	December 2010	Removed from market.
2443	BENGT SÄNDH FIN NATURELL SNUSSATS 2kg	Sweden	December 2010	Removed from market.
2943	BENGT SÄNDH GROV COGNAC SNUSSATS 1kg	Sweden	December 2010	Removed from market.
3043	BENGT SÄNDH GROV COGNAC SNUSSATS 2kg	Sweden	December 2010	Removed from market.
2543	BENGT SÄNDH GROV NATURELL SNUSSATS 1kg	Sweden	December 2010	Removed from market.
2643	BENGT SÄNDH GROV NATURELL SNUSSATS 2kg	Sweden	December 2010	Removed from market.
860	CATCH COLLECTION CHILL PSWM 10g (Vanilla Mint)	Sweden	April 2011	Removed, replaced with existing product with new taste, new can and new item number (838 CATCH COLLECTION STILL PSWM 10g (Violet Liqorice)).
860	CATCH COLLECTION EASE PSWM 10g (Orange Ginger)	Sweden	December 2010	Removed, replaced with existing product with new taste (860 CATCH COLLECTION CHILL PSWM 10g (Vanilla Mint)).
838	CATCH COLLECTION STILL PSWM 10g (Violet Liqorice)	Sweden	August 2011	Removed, replaced with existing product with new taste (838 CATCH COLLECTION THRILL PSWM 10g (Raspberry Pepper)).
821	CHILL CATCH PSWM 10g	Sweden	May 2011	Removed from Swedish market.
6042	CHILL CATCH PSWM 10g	Sweden	April 2011	Removed, replaced with similar product with new can and new item number (821 CHILL CATCH PSWM 10g).
2534	GENERAL EXTRA STRONG LS 45g	Sweden	October 2011	Removed, replaced with similar product with reduced weight (818 GENERAL EXTRA STRONG LS 42g).
842	GENERAL LONG STRONG PSOL 24g	Sweden	December 2010	Removed, replaced with similar product with reduced weight (825 GENERAL LONG STRONG PSOL 21,6g).
869	GENERAL PSWM 10g	Sweden	April 2011	Removed, replaced with similar product with new can and new item number (839 GENERAL PSWM 10g).
856	GENERAL STRONG PSWL 24g	Sweden	December 2010	Removed, replaced with similar product with reduced weight (826 GENERAL STRONG PSWL 21,6g).
873	GÖTEBORGS RAPÉ PSWM 10g	Sweden	April 2011	Removed, replaced with similar product with new can and new item number (833 GÖTEBORGS RAPÉ PSWM 10g).
895	NICK & JOHNNY PSOL 24g	Sweden	December 2010	Removed, replaced with similar product with reduced weight (814 NICK & JOHNNY PSOL 21,6g).
4521	NICK & JOHNNY STRONG WHITE PSWL 24g	Sweden	December 2010	Removed, replaced with similar product with reduced weight (813 NICK & JOHNNY STRONG WHITE PSWL 21,6g).
9418	ONICO PSWM 10g	Sweden	April 2011	Removed, replaced with similar product with new can and new item number (9419 ONICO PSWM 10g).
882	TRE ANKARE PSWM 10g	Sweden	April 2011	Removed, replaced with similar product with new can and new item number (837 TRE ANKARE PSWM 10g).

Table 14. Products analyzed outside the Chemical Quality Control program within “Fabrikation”

Sample no	Article	Art. no	Remarks	Age W	C	Nico-tine %	Nico-tine mg/unit	Nicotin e %	Water %	TSNA-NNN MS ppm	TSNA-NAT MS ppm	TSNA-NAB MS ppm	TSNA-NNK MS ppm	TSNA-LC-MSMS ppm	Nornic-otine ppm	Anaba-sine ppm	Anata-bine ppm	Nornic/Nicotin %	Nitrite ion ppm	Nitrate ion %	aw-CAS % as is	Glyce-rol % as is	Propyl. glycol % as is	Glyce-rol %	Propyl. glycol %
P211-00046-01	Kardus Superior Blend LS	8859	Kardus kyl lagrad 2			1			40,3	0,07	0,03	<0,003	0,01	0,11											
P211-00046-02	Kardus Superior Blend LS	8859	Kardus rumslagrad 2			1			41,7	0,07	0,03	<0,003	0,01	0,11											
P211-00047-01	General Smooth PSW M	848	Batchnr 12009		X	1,7			37,3	0,81	0,61	0,05	0,33	1,8	310	84	340	1,9	2	1,3	0,82	<0,2	<0,2	<0,2	<0,2
P211-00047-02	General Smooth PSW M	848	Batchnr 12009	20		1,4			35,5	0,87	0,48	0,06	0,28	1,7	220	69	160	1,6	1		0,82				
P211-00058-01			Batchnr:115012		X	2,4			44,5	1,1	0,82	0,04	0,34	2,3	400	94	580	1,7	4	1,5	0,86	<0,2	3,7	<0,2	6,6
P211-00058-02			Batchnr:115012	20	X	1,9			42,5	1,1	0,78	0,04	0,2	2,1	480	82	260	2,5	2		0,86				
P211-00062-01	General Sterk PSWL 21,6g	826			X	2,3			46,5	1	0,72	0,03	0,32	2,1					4	1,4					
P211-00062-02	Tre Ankare White Mini	882			X	1,4			45,7	0,58	0,42	0,02	0,31	1,3					3	1,5					
P211-00062-03	Catch White Eucalyptus Lar	889			X	1,4			45,2	0,55	0,45	0,02	0,3	1,3					4	1,4					
P211-00100-01	Kardus Superior Blend LS	8859	Kardus kyl lagrad 4			1			40,7	0,06	0,02	<0,003	0,01	0,1											
P211-00100-02	Kardus Superior Blend LS	8859	Kardus rumslagrad 4			0,99			41,3	0,07	0,02	<0,003	0,01	0,1											
P211-00112-01	Kaliber Original Portion	840	Satsnr:152-042		X	1,4			43,9	0,69	0,5	0,04	0,3	1,5	270	74	260	1,8	3	1,2	0,9	<0,2	3,3	<0,2	5,9
P211-00130-01	841 Kaliber Vit Portion		841 Kaliber Vit Port		X	1,3			46,4	0,54	0,39	0,03	0,34	1,3	250	53	310	1,9	3	1,6	0,86	<0,2	3,2	<0,2	6
P211-00145-01	06 Extra Strong Long PSOL	901	La Famiglia			3			40,6	0,98	1	0,05	0,2	2,3	430	110	630	1,4	2	1	0,87	<0,2	2,7	<0,2	4,5
P211-00145-02	06 Extra Strong Long PSOL	901	La Famiglia			2,7			38,5	1	0,94	0,05	0,13	2,1	450	99	330	1,7	2		0,87				
P211-00180-01	N&J Crushed Ice	902	1987N&JCrushedIce		X	2,5			43,2	1,1	0,93	0,06	0,37	2,4	260	87	310	1,1	2	1,4	0,87	<0,2	3,1	<0,2	5,5
P211-00185-01	Kaliber Strong PSWL	6451	6451Kaliber_Strong		X	2,4			46,6	0,72	0,7	0,03	0,35	1,8	330	85	650	1,4	2	1,8	0,85	<0,2	3,3	<0,2	6,1
P211-00186-01	Kaliber Strong PSOL	6454	6454Kaliber_Strong		X	2,4			42,6	0,82	0,77	0,04	0,25	1,9	330	89	590	1,3	2	1,3	0,87	<0,2	3,2	<0,2	5,6
P211-00190-01	06 Extra Strong Long PSOL	901	06Extra_Strong	3	X	3,2			40	0,68	0,77	0,03	0,17	1,7	380	110	780	1,2	3	1	0,87	<0,2	3	<0,2	5
P211-00190-02	06 Extra Strong Long PSOL	901	06Extra_Strong	20		2,6			40,7	0,65	0,87	0,04	0,13	1,7	330	92	280	1,3	2		0,86				
P211-00201-01	General Classic Blend	4877	(QAT)_satsnr.161-077		X	1,4			48,7	0,59	0,48	0,03	0,39	1,5	230	53	270	1,7	<1	1,6	0,86	<0,2	3,5	<0,2	6,8
P211-00201-02	General Nordic Mint	4876	(QAT)_satsnr.115-064		X	1,4			45,4	0,61	0,5	0,02	0,35	1,5	230	55	250	1,7	<1	1,4	0,86	<0,2	3,4	<0,2	6,3
P211-00211-01	Kardus Superior Blend LS	8859	Kyllagrad 6 mån			1			39,8	0,07	0,02	<0,003	0,01	0,11											
P211-00211-02	Kardus Superior Blend LS	8859	Rumslagrad 6 mån			1			40,8	0,07	0,03	<0,003	0,01	0,11											
P211-00232-01	General Dry Mint PSOM	4800	Batchnr:161101		X	1,8			20,3	0,78	0,66	0,04	0,27	1,7	400	110	440	2,2	2	1,2	0,68	<0,2	<0,2	<0,2	<0,2
P211-00234-01	Catch Dry WPS Mini Eucalyp	865	Batchnr:154030		X	1,9			23,1	0,8	0,65	0,04	0,26	1,7	400	85	440	2,1	2	1,3	0,68	<0,2	<0,2	<0,2	<0,2
P211-00238-01	Probe Lös 45g	831	Batchnr:141079		X	2			48,9	0,7	0,48	0,03	0,3	1,5	530	93	660	2,6	2	1,2	0,87	<0,2	3,8	<0,2	7,4
P211-00239-01	Catch Dry WPS Mini Licoric	861	Batchnr:12104		X	2			21,2	0,82	0,66	0,04	0,28	1,8	560	88	660	2,9	1	1,4		<0,2	<0,2	<0,2	<0,2
P211-00245-01	Probe Large	871	Batchnummer 154035		X	1,9			46,3	0,77	0,67	0,04	0,26	1,7	450	82	540	2,4	2	1,4	0,88	<0,2	3,6	<0,2	6,8
P211-00248-01	Catch Dry WPS Mini Licoric	861	Batchnr:121111		X	1,9			21,8	0,75	0,63	0,04	0,21	1,6	530	85	620	2,8	1	1,5		<0,2	<0,2	<0,2	<0,2
P211-00249-01	Catch Dry WPS Mini Eucalyp	865	Batchnr:112112		X	1,9			22	0,74	0,62	0,03	0,21	1,6	550	90	630	2,8	1	1,5		<0,2	<0,2	<0,2	<0,2
P211-00253-01	Catch Dry WPS Mini Licoric	861	Batchnr:112119		X	2			21,5	0,83	0,73	0,04	0,26	1,9	550	89	620	2,8	2	1,5		<0,2	<0,2	<0,2	<0,2
P211-00254-01	Catch Dry WPS Mini Eucalyp	865	Batchnr:112118		X	2			23,4	0,83	0,63	0,04	0,26	1,8	570	91	620	2,9	2	1,5		<0,2	<0,2	<0,2	<0,2
P211-00255-01	General Green Harvest	8883	Satsnr. 161118		X	1,3			48,5	0,46	0,38	0,02	0,29	1,2	300	62	380	2,3	2	0,5	0,89	<0,2	3,4	<0,2	6,6
P211-00255-02	General Green Harvest	8883	Satsnr. 161118	20		1,1			47,6	0,47	0,38	0,03	0,2	1,1	240	66	<60	2,1	2		0,88				
P211-00258-01	Probe Large	871	Batchnr:152108			1,8			46,2	0,77	0,6	0,04	0,25	1,7	400	79	460	2,3	<1	1,4	0,87	<0,2	3,4	<0,2	6,2
P211-00265-02	06 Extra Strong Long PSOL	901	Prov2,08:05				17,7	1,9																	
P211-00265-03	06 Extra Strong Long PSOL	901	Prov3,09:40				15,1	1,79																	
P211-00265-04	06 Extra Strong Long PSOL	901	Prov4,09:40				17,4	1,92																	
P211-00265-05	06 Extra Strong Long PSOL	901	Prov5,10:40				17,1	1,91																	
P211-00265-06	06 Extra Strong Long PSOL	901	Prov6,10:40				17,1	1,9																	
P211-00265-07	06 Extra Strong Long PSOL	901	Prov7,11:40				17,1	1,98																	
P211-00265-08	06 Extra Strong Long PSOL	901	Prov8,11:40				17,3	1,87																	
P211-00265-09	06 Extra Strong Long PSOL	901	Prov9,13:15				17,7	1,85																	
P211-00265-10	06 Extra Strong Long PSOL	901	Prov10,13:15				17,5	1,89																	

Sample no	Article	Art. no	Remarks	Age	C	Nico- tine% %	Nico- tine% mg/unit	Nicotin e% %	Water% GC %	TSNA- NNN% MS ppm	TSNA- NAT% MS ppm	TSNA- NAB% MS ppm	TSNA- NNK% MS ppm	TSNA% LC-MSMS ppm	Nornic- otine% ppm	Anaba- sine ppm	Anata- bine ppm	Nornic/ Nicotin %	Nitrite ion% ppm	Nitrate ion% %	aw-CAS % as is	Glyce- rol % as is	Propy- glycol % as is	Glyce- rol %	Propyl- glycol %
P211-00266-01	06 Extra Strong Long PSOL	901	Batchnr:112131		X	3,3			43,4	0,77	0,76	0,04	0,16	1,7	470	120	860	1,4	<1	1,2	0,88	<0,2	3,1	<0,2	5,5
P211-00266-02	06 Extra Strong Long PSOL	901	Batchnr:112131	20		2,7			38,6	0,71	0,62	0,04	0,11	1,5	420	110	230	1,6	2		0,88				
P211-00270-01	Probe Lös 45g	831	Batchnr:122108		X	2,1			48,6	0,73	0,55	0,04	0,28	1,6	520	92	630	2,5	<1	1,4	0,87	<0,2	3,7	<0,2	7,1
P211-00271-01	05 White Strong Long 21,6g	824	Prodbatch:22076		X	2,6			46,4	0,82	0,77	0,04	0,22	1,8	530	100	860	2,1	<1	1,5	0,87	<0,2	3,1	<0,2	5,8
P211-00271-02	05 White Strong Long 21,6g	824	Prodbatch:22076	20		2			45,1	0,81	0,69	0,04	0,14	1,7	380	89	210	2	3		0,87				
P211-00278-01	06 Extra Strong Long PSOL	901	110818,530,D,112139		X	3,2			41,1	0,92	0,9	0,04	0,17	2	440	120	770	1,4	<1	<0,05	0,86	<0,2	2,9	<0,2	5
P211-00288-01	General Dry Mint PSOM	4800	Batchnr:161137			1,9			22	1,1	0,78	0,06	0,31	2,2	460	110	480	2,4	1	1,4	0,67	<0,2	<0,2	<0,2	<0,2
P211-00292-01	Probe Large	871	Batchnr:154053		X	1,7			45,7	0,62	0,51	0,04	0,18	1,4	420	78	470	2,4	2	1,4	0,89	<0,2	4	<0,2	7,3
P211-00296-01	General Green Harvest	8883	Batch61141,1:a_prod.		X	1,3			48,8	0,4	0,33	0,02	0,31	1,1	220	51	280	1,7	2	0,5	0,88	<0,2	3,4	<0,2	6,6
P211-00298-01			Gen.PSOL,s.nr.134116		X				46,6																
P211-00298-02			Gen.PSOL,s.nr.134114		X				46,6																
P211-00302-01	General Green Harvest	8883	Batch61150,2:a_prod.		X	1,3			48,4	0,44	0,41	0,02	0,33	1,2	220	53	310	1,7	3	0,6	0,86	<0,2	3,5	<0,2	6,7
P211-00303-01	Probe Lös 45g	831	Batch122-6		X	2			49,4	0,75	0,49	0,04	0,24	1,5	430	73	510	2,1	3	1,5	0,86	<0,2	3,8	<0,2	7,5
P211-00304-01	Catch Collection PSWM 10g	838	QAT110914,sats115142		X	1,4			46,3	0,54	0,43	0,02	0,23	1,2	300	52	310	2	2	1,6	0,87	<0,2	4	<0,2	7,4
P211-00311-01	Grovsnus Svart	898	1:a dosan,L:530,P1		X				45																
P211-00311-02	Grovsnus Svart	898	1:a dosan,L:530,P2						45																
P211-00311-03	Grovsnus Svart	898	1:a dosan,L:530,P3						45																
P211-00311-04	Grovsnus Svart	898	1:a dosan,L:530,P4						45																
P211-00312-01			Kardus 2011, ny prod		X	2,2			46,8	0,55	0,28	0,03	0,56	1,4	360	96	230	1,6	<1	0,9	0,88	0,87	<0,2	1,6	<0,2
P211-00312-02			Kardus 2011, ny prod			2,1			46,6	0,58	0,25	0,04	0,53	1,4	280	100	150	1,3	2		0,87				
P211-00316-01		901	1) REF 12-155 46,5 %		X	3,4	18,2	1,92	43,1																
P211-00316-02		901	2) Utv. mjöl Pub. 46			3,4	17,4	1,91	44,2																
P211-00316-03		901	3) Prod. mjöl Pub. 4			3,6	18,8	2,01	43,5																
P211-00316-04		901	4) 12-155 44%			3,6	20	2,09	41,1																
P211-00316-05		901	5) 12-155 42%			3,4	18,3	1,99	41,9																
P211-00316-06		901	6) 12-155 44,3%			3,4	17,7	2,08	39,7																
P211-00354-01	Parliament Intense Creatio	1896	1:aprod.satsnr:61156		X	1,9			46,1	0,76	0,67	0,04	0,17	1,6	310	61	460	1,6	2	1,2	0,87	<0,2	2,8	<0,2	5,2
P211-00354-02	Parliament Mint Creation	1897	1:aprod.satsnr:61159			1,4			46,1	0,7	0,48	0,03	0,39	1,6	300	57	310	2,1	2	1,5	0,87	<0,2	3,3	<0,2	6,2
P211-00354-03	Parliament Original Creati	1898	1:aprod.satsnr:61158			1,4			46,5	0,61	0,43	0,03	0,29	1,4	290	55	290	2,1	2	1,5	0,88	<0,2	3,7	<0,2	6,9
P211-00354-04	Parliament Intense Creatio	1896	1:aprod.satsnr:61156			?			?	!	?	?	?	?	?	?	?	?	?	?	?				
P211-00354-05	Parliament Mint Creation	1897	1:aprod.satsnr:61159			?			?	!	?	?	?	?	?	?	?	?	?	?	?				
P211-00354-06	Parliament Original Creati	1898	1:aprod.satsnr:61158			?			?	!	?	?	?	?	?	?	?	?	?	?	?				
P211-00383-01	06 Extra Strong Long PSOL	901	Batchnr: 112180			3,3			40,1	0,62	0,65	0,03	0,13	1,4	380	110	700	1,1	4	1,2	0,86	<0,2	2,8	<0,2	4,7
P211-00383-02	06 Extra Strong Long PSOL	901	Batchnr: 112180			2,8			38,4	0,77	0,73	0,04	0,11	1,6	430	110	280	1,5	2		0,85				
P211-00391-01	Ettan White PS	876	1:a dosan,L:530,P1		X				45																
P211-00391-02	Ettan White PS	876	1:a dosan,L:530,P2						45																
P211-00391-03	Ettan White PS	876	1:a dosan,L:530,P3						45																
P211-00391-04	Ettan White PS	876	1:a dosan,L:530,P4						45																
P211-00402-01			6657 Marlboro Origin		X	1,4			46,4	0,51	0,39	0,03	0,3	1,2	220	48	240	1,6	4	1,6	0,85	<0,2	4,2	<0,2	7,9
P211-00402-02			6656 Marlboro Mint S		X	1,4			48,2	0,54	0,39	0,03	0,28	1,2	230	49	220	1,6	2	1,7	0,86	<0,2	3,3	<0,2	6,4
P211-00402-03			6657 Marlboro Origin	26	X	?			?	?	?	?	?	?	?	?	?	?	?	?	?				
P211-00402-04			6656 Marlboro Mint S	26	X	?			?	?	?	?	?	?	?	?	?	?	?	?	?				
P211-00406-01	General Dry Mint PSWM	4800	Batchnr:161185		X	1,8			21	0,64	0,53	0,04	0,18	1,4	410	120	440	2,2	2	1,4	0,65	<0,2	<0,2	<0,2	<0,2
P211-00424-01	General Long Extra Strong	8306	111125,530,D,12207		X	3,5			40,6	0,86	0,87	0,04	0,18	2	540	140	920	1,5	2	1,3	0,83	<0,2	2,6	<0,2	4,4
P211-00424-02	General Long Extra Strong	8306	111125,530,D,12207	20		?			?	?	?	?	?	?	?	?	?	?	?	?	?				
P211-00425-01	General Titanium PSWL	6322	1:a prod,satsnr21106		X	2,4			47,9	0,78	0,75	0,03	0,2	1,8	440	100	720	1,8	2	1,8	0,85	<0,2	3,1	<0,2	6
P211-00425-02	General Titanium PSWL	6322	1:a prod,satsnr21106	26		?			?	?	?	?	?	?	?	?	?	?	?	?	?				

More results for	Article	Art. no	Remarks	Age	C	B(a)P CAS ppb	Sodium chlorid %	NDMA ppb	Etyl ka rbamat ppb	pH - CAS	Nicotin en asis mg/g	Aflatox B1 CAS ppb	Aflatox B2 CAS ppb	Aflatox G1 CAS ppb	Aflatox G2 CAS ppb	Ochrat- ox CAS ppb	Ethanol %	Arse- nic CA ppm	Lead CA ppm	Cadmi- um CA ppm	Chrom- ium CA ppm	Nickel CA ppm	Moistu- re FDA %	Ammonia Not CAS mg/g	Formal- dehyde ppm
P211-00046-01	Kardus Superior Blend L	8859	Kardus kyl lagrad 2																						
P211-00046-02	Kardus Superior Blend L	8859	Kardus rumslagrad 2																						
P211-00047-01	General Smooth PSW M	848	Batchnr 12009		X	1	10,6	0,7	<30	8,38	10,48	0,2	<0,5	<0,5	<1	4,7	0,51	0,19	0,47	0,31	1,9	2,3	40	1,6	21,5
P211-00047-02	General Smooth PSW M	848	Batchnr 12009	20	X	1,1	10,1	1,5	<30	8,83	13,54	<0,1	<0,5	<0,5	<1	14	1	<0,10	0,25	1	0,55	1,7	52	2,8	23,6
P211-00058-01			Batchnr:115012		X			<0,6	689	7,93	11,05														
P211-00058-02			Batchnr:115012	20	X			1,6																	
P211-00062-01	General Sterk PSWL 21,6	826			X	<1																			
P211-00062-02	Tre Ankare White Mini	882			X	1		1																	
P211-00062-03	Catch White Eucalyptus	889			X	<1		3,6																	
P211-00100-01	Kardus Superior Blend L	8859	Kardus kyl lagrad 4																						
P211-00100-02	Kardus Superior Blend L	8859	Kardus rumslagrad 4																						
P211-00112-01	Kaliber Original Portio	840	Satsnr:152-042		X	1,1	8,8	<0,6	<30	8,56	8,1	<0,1	<0,5	<0,5	<1	3,3		<0,10	0,44	0,36	1,2	1,5	51,4	1,4	17,8
P211-00130-01	841 Kaliber Vit Portion		841 Kaliber Vit Port		X	<1	11,9	1,2	<30	8,6	7,07	<0,1	<0,5	<0,5	<1	7,4		<0,10	0,23	0,48	0,44	1,3	53,2	2,2	18,4
P211-00145-01	06 Extra Strong Long PS	901	La Famiglia			1,5	7,8	0,6	104	8,48	17,98	<0,1	<0,5	<0,5	<1	2,1		0,19	0,25	0,88	0,67	1,4	48,3	2,5	20,2
P211-00145-02	06 Extra Strong Long PS	901	La Famiglia					<0,6	802	7,51	16,43														
P211-00180-01	N&J Crushed Ice	902	1987N&JCrushedIce		X	1,1	8,4	<0,6	57	8,5	14,19	<0,1	<0,5	<0,5	<1	2,7		<0,10	0,27	0,56	0,36	1,2	50	2,3	11,3
P211-00185-01	Kaliber Strong PSWL	6451	6451Kaliber_Strong		X	<1	11,5	0,8	<30	8,7	12,85	<0,1	<0,5	<0,5	<1	6		<0,10	0,23	1,4	2,2	3,4	54,1	2,6	13,8
P211-00186-01	Kaliber Strong PSOL	6454	6454Kaliber_Strong		X	1,5	8,4	<0,6	<30	8,61	13,86	<0,1	<0,5	<0,5	<1	3,6		<0,10	0,53	0,03	3,3	3,6	50,3	2,4	15,2
P211-00190-01	06 Extra Strong Long PS	901	06Extra_Strong	3	X	2	7,6	<0,6	<30	8,37	18,91	<0,1	<0,5	<0,5	<1	3		<0,10	0,16	0,54	0,38	1,2	45,6	2,2	15,3
P211-00190-02	06 Extra Strong Long PS	901	06Extra_Strong	20				<0,6	732	7,25	15,34														
P211-00201-01	General Classic Blend	4877	(QAT)_satsnr.161-077		X	<1	12,7	0,8	<30	8,88	7,26	<0,1	<0,5	<0,5	<1	4		<0,10	0,22	0,41	0,62	2,1	54,3	2,3	17,4
P211-00201-02	General Nordic Mint	4876	(QAT)_satsnr.115-064		X	<1	10,8	0,8	<30	8,76	7,43	<0,1	<0,5	<0,5	<1	3,9		<0,10	0,15	0,39	0,59	1,9	53,5	2,3	17,1
P211-00211-01	Kardus Superior Blend L	8859	Kyllagrad 6 mån																						
P211-00211-02	Kardus Superior Blend L	8859	Rumslagrad 6 mån																						
P211-00232-01	General Dry Mint PSOM	4800	Batchnr:161101		X	<1	10,7	<0,6	<30	7,17	14,55	<0,1	<0,5	<0,5	<1	2,8		0,14	0,26	0,44	0,6	1,7	25,7	1,9	15,7
P211-00234-01	Catch Dry WPS Mini Euca	865	Batchnr:154030		X	<1	11	<0,6	<30	7,43	14,41	<0,1	<0,5	<0,5	<1	1,8		0,14	0,3	0,48	0,58	1,6	26,1	2	18,9
P211-00238-01	Probe Lös 45g	831	Batchnr:141079		X	<1	14	<0,6	<30	7,98	10,35	<0,1	<0,5	<0,5	<1	1,3		<0,10	0,29	0,49	0,53	1,7	54,5	1,8	7,83
P211-00239-01	Catch Dry WPS Mini Lico	861	Batchnr:12104		X	<1	11,6	<0,6	<30	7,35	15,39	<0,1	<0,5	<0,5	<1	1,2		0,13	0,25	0,44	0,57	1,7	24,4	3,4	19,7
P211-00245-01	Probe Large	871	Batchnummer 154035		X	<1	9,4	<0,6	<30	7,91	10,27	<0,1	<0,5	<0,5	<1	2,4		0,21	0,19	0,55	0,77	1,4	51,7	1,7	17,9
P211-00248-01	Catch Dry WPS Mini Lico	861	Batchnr:121111		X	<1	11,8	<0,6	<30	7,38	15,04	<0,1	<0,5	<0,5	<1	3,6		0,2	0,17	0,55	0,85	1,4	25,2	3,5	17,2
P211-00249-01	Catch Dry WPS Mini Euca	865	Batchnr:112112		X	<1	11,1	<0,6	<30	7,37	15,08	<0,1	<0,5	<0,5	<1	3,5		0,19	0,18	0,57	0,77	1,4	25,4	1,7	27,4
P211-00253-01	Catch Dry WPS Mini Lico	861	Batchnr:112119		X	<1	11,5	<0,6	<30	7,39	15,36	<0,1	<0,5	<0,5	<1	3,9		0,19	0,18	0,54	0,86	1,5	24	3	21,7
P211-00254-01	Catch Dry WPS Mini Euca	865	Batchnr:112118		X	<1	11,1	<0,6	<30	7,06	14,96	<0,1	<0,5	<0,5	<1	4		0,19	0,19	0,56	0,7	1,6	25,4	1,8	21
P211-00255-01	General Green Harvest	8883	Satsnr. 161118		X	<1	10	<0,6	<30	8,67	6,78	<0,1	<0,5	<0,5	<1	<0,5		<0,10	0,17	0,32	0,49	0,25	53,8	0,9	18,3
P211-00255-02	General Green Harvest	8883	Satsnr. 161118	20				<0,6	<30	7,65	5,92														
P211-00258-01	Probe Large	871	Batchnr:152108			<1	9,4	<0,6	<30	7,97	9,47	<0,1	<0,5	<0,5	<1	4,7		<0,10	0,2	0,48	0,71	1	52,1	1,7	15,4
P211-00265-02	06 Extra Strong Long PS	901	Prov2,08:05							8,46	19														
P211-00265-03	06 Extra Strong Long PS	901	Prov3,09:40							8,43	17,9														
P211-00265-04	06 Extra Strong Long PS	901	Prov4,09:40							8,43	19,24														
P211-00265-05	06 Extra Strong Long PS	901	Prov5,10:40							8,51	19,13														
P211-00265-06	06 Extra Strong Long PS	901	Prov6,10:40							8,33	18,99														
P211-00265-07	06 Extra Strong Long PS	901	Prov7,11:40							8,44	19,83														
P211-00265-08	06 Extra Strong Long PS	901	Prov8,11:40							8,44	18,72														
P211-00265-09	06 Extra Strong Long PS	901	Prov9,13:15							8,54	18,53														
P211-00265-10	06 Extra Strong Long PS	901	Prov10,13:15							8,45	18,91														
P211-00266-01	06 Extra Strong Long PS	901	Batchnr:112131		X	1,6	7,6	<0,6	88	8,5	18,7	<0,1	<0,5	<0,5	<1	4,5		0,18	0,24	0,63	0,66	2,1	47,1	2,4	29,2

More results for	Article	Art. no	Remarks	Age W	C	B(a)P CAS ppb	Sodium chlorid %	NDMA ppb	Etyl ka rbamat ppb	pH - CAS	Nicotin en asis mg/g	Aflatox B1 CAS ppb	Aflatox B2 CAS ppb	Aflatox G1 CAS ppb	Aflatox G2 CAS ppb	Ochrat- ox CAS ppb	Ethanol %	Arse- nic CA ppm	Lead CA ppm	Cadmi- um CA ppm	Chrom- ium CA ppm	Nickel CA ppm	Moistu- re FDA %	Ammonia Not CAS mg/g	Formal- dehyde ppm
Sample no																									
P211-00266-02	06 Extra Strong Long PS	901	Batchnr:112131	20				<0,6	595	7,57	16,69												45,7		
P211-00270-01	Probe Lös 45g	831	Batchnr:122108		X	<1	13,8	1,2	<30	8,08	10,58	<0,1	<0,5	<0,5	<1	6	<0,10	0,56	0,64	0,74	1,5	53,8	2,1	7,98	
P211-00271-01	05 White Strong Long 21	824	Prodbatch:22076		X	<1	10,6	2,4	<30	8,64	13,78	<0,1	<0,5	<0,5	<1	9,3	<0,10	0,22	0,62	0,6	2	51,6	3,7	21,5	
P211-00271-02	05 White Strong Long 21	824	Prodbatch:22076	20				1	395	8,37	10,71														
P211-00278-01	06 Extra Strong Long PS	901	110818,530,D,112139		X	1,6	7,2	<0,6	<30	8,6	18,96	<0,1	<0,5	<0,5	<1	4,4	<0,10	0,19	0,67	0,79	1,8	45,1	2,7	19,5	
P211-00288-01	General Dry Mint PSOM	4800	Batchnr:161137			<1	10,3	<0,6	<30	7,3	14,81	<0,1	<0,5	<0,5	<1	4,3	<0,10	0,27	0,26	1,4	1,8	25,9	2	21,2	
P211-00292-01	Probe Large	871	Batchnr:154053		X	<1	9,2	<0,6	<30	7,85	9,45	<0,1	<0,5	<0,5	<1	4,8	<0,10	0,24	0,48	0,67	1,3	51,4	84,7	22,1	
P211-00296-01	General Green Harvest	8883	Batch61141,1:a_prod.		X	<1	10,4	<0,6	<30	8,73	6,69	<0,1	<0,5	<0,5	<1	<0,5	0,11	0,21	0,26	0,41	<0,1	53,9	1,8	11,9	
P211-00298-01			Gen.PSOL,s.nr.134116		X		7,3																		
P211-00298-02			Gen.PSOL,s.nr.134114		X		7,8																		
P211-00302-01	General Green Harvest	8883	Batch61150,2:a_prod.		X	<1	10,1	<0,6	<30	8,83	6,82	<0,1	<0,5	<0,5	<1	<0,5	0,2	0,19	0,34	0,4	<0,1	53,5	0,9	12,4	
P211-00303-01	Probe Lös 45g	831	Batch122-6		X	1	14,2	<0,6	<30	8,02	10,27	<0,1	<0,5	<0,5	<1	4,4	<0,10	0,21	0,62	0,58	1,2	54,2	1,2	7,11	
P211-00304-01	Catch Collection PSWM 1	838	QAT110914,sats115142		X	1,1	11,1	<0,6	<30	8,83	7,78	<0,1	<0,5	<0,5	<1	5,8	<0,10	0,24	0,5	0,59	1,3	51,7	1,1	26,1	
P211-00311-01	Grovsnus Svart	898	1:a dosan,L:530,P1		X																				
P211-00311-02	Grovsnus Svart	898	1:a dosan,L:530,P2																						
P211-00311-03	Grovsnus Svart	898	1:a dosan,L:530,P3																						
P211-00311-04	Grovsnus Svart	898	1:a dosan,L:530,P4																						
P211-00312-01	Kardus 2011, ny prod		Kardus 2011, ny prod		X	1,2	12,7	<0,6	<30	9,25	11,55	<0,1	<0,5	<0,5	<1	<0,5	<0,10	0,35	0,64	2,1	1,3	52,4	2,4	4,61	
P211-00312-02	Kardus 2011, ny prod		Kardus 2011, ny prod					!	<30	9,07	11,31											50,97			
P211-00316-01		901	1) REF 12-155 46,5 %		X						19,16														
P211-00316-02		901	2) Utv. mjöl Pub. 46								19,1														
P211-00316-03		901	3) Prod. mjöl Pub. 4								20,06														
P211-00316-04		901	4) 12-155 44%								20,92														
P211-00316-05		901	5) 12-155 42%								19,86														
P211-00316-06		901	6) 12-155 44,3%								20,8														
P211-00354-01	Parliament Intense Crea	1896	1:aprod.satsnr:61156		X	1,3	10,5	<0,6	<30	7,94	10,05	<0,1	<0,5	<0,5	<1	3	<0,10	0,25	1,3	0,99	2,4	52,3	2,8	14,8	
P211-00354-02	Parliament Mint Creatio	1897	1:aprod.satsnr:61159			<1	11,5	<0,6	<30	8,04	7,56	<0,1	<0,5	<0,5	<1	6,6	<0,10	0,22	0,79	0,87	2,4	52,4	2,4	14,1	
P211-00354-03	Parliament Original Cre	1898	1:aprod.satsnr:61158			<1	12,1	<0,6	<30	7,91	7,63	<0,1	<0,5	<0,5	<1	6,1	<0,10	0,25	0,44	0,38	1,7	52,2	2,4	16	
P211-00354-04	Parliament Intense Crea	1896	1:aprod.satsnr:61156					?	?	?	?														
P211-00354-05	Parliament Mint Creatio	1897	1:aprod.satsnr:61159					?	?	?	?														
P211-00354-06	Parliament Original Cre	1898	1:aprod.satsnr:61158					?	?	?	?														
P211-00383-01	06 Extra Strong Long PS	901	Batchnr: 112180			1,4	7,7	<0,6	<30	8,66	19,9	<0,1	<0,5	<0,5	<1	3,2	<0,10	0,2	0,95	0,49	1,7	44,9	19,2	2,92	
P211-00383-02	06 Extra Strong Long PS	901	Batchnr: 112180					!	503	7,83	17,16											44,1			
P211-00391-01	Ettan White PS	876	1:a dosan,L:530,P1		X																				
P211-00391-02	Ettan White PS	876	1:a dosan,L:530,P2																						
P211-00391-03	Ettan White PS	876	1:a dosan,L:530,P3																						
P211-00391-04	Ettan White PS	876	1:a dosan,L:530,P4																						
P211-00402-01	6657 Marlboro Origin				X	<1	11,4	<0,6	<30	8,44	7,44	<0,1	<0,5	<0,5	<1	8,1	<0,10	0,24	0,39	0,32	1,9	52,9	2,2	21,5	
P211-00402-02	6656 Marlboro Mint S				X	<1	11,8	<0,6	<30	8,49	7,3	<0,1	<0,5	<0,5	<1	8,6	0,1	0,23	0,42	0,38	1,7	52,8	2,2	23,2	
P211-00402-03	6657 Marlboro Origin	26			X			?	!	?	?											?			
P211-00402-04	6656 Marlboro Mint S	26			X			?	?	?	?											?			
P211-00406-01	General Dry Mint PSWM	4800	Batchnr:161185		X	1,1	10,7	<0,6	<30	7,36	14,31	<0,1	<0,5	<0,5	<1	2,9	0,18	0,27	0,45	0,77	1	26	2	13,9	
P211-00424-01	General Long Extra Stro	8306	111125,530,D,12207		X	1	8	<0,6	<30	8,72	20,83	<0,1	<0,5	<0,5	<1	3,3	<0,10	0,19	0,99	0,64	2	44,2	3,3	18,5	
P211-00424-02	General Long Extra Stro	8306	111125,530,D,12207	20				!	!	!	?											?			
P211-00425-01	General Titanium PSWL	6322	1:a prod,satsnr21106		X	<0,6	12,4	<0,6	<30	8,74	12,68	<0,1	<0,5	<0,5	<1	6,4	<0,10	0,11	0,52	0,94	1,6	55,1	6,3	22,1	
P211-00425-02	General Titanium PSWL	6322	1:a prod,satsnr21106	26				?	?	?	?											?			

More results for						Unit	Sum	Sum																					
Sample no	Article	Art. no	Remarks	Age W	C	weight g as is	Gin senosid mg/g	Gin senosid mg/g as	Gin senosid mg/st	AA CAS ppb	Ethanol vikt %	B(a)A ppb	Chrys- ene ppb	B(b,k)F ppb	B(a)P ppb	I(1,2,- 3-cd)P ppb	D(a,h)A ppb	Sum canPAH ppb	Naph- thalene ppb	Acenap- hthylene ppb	Fluo- rene ppb	Acenap- hthene ppb	Phenan- threne ppb	Anthra- cene ppb	Fluor- anthene ppb	Pyrene ppb	B(g,- h,i)P ppb	Sum othPAH ppb	
P211-00046-01	Kardus Superior Blend L	8859	Kardus kyl lagrad 2																										
P211-00046-02	Kardus Superior Blend L	8859	Kardus rumslagrad 2																										
P211-00047-01	General Smooth PSW M	848	Batchnr 12009		X																								
P211-00047-02	General Smooth PSW M	848	Batchnr 12009	20																									
P211-00058-01			Batchnr:115012		X																								
P211-00058-02			Batchnr:115012	20	X																								
P211-00062-01	General Sterk PSWL 21,6	826			X					590																			
P211-00062-02	Tre Ankare White Mini	882			X					560																			
P211-00062-03	Catch White Eucalyptus	889			X					500																			
P211-00100-01	Kardus Superior Blend L	8859	Kardus kyl lagrad 4																										
P211-00100-02	Kardus Superior Blend L	8859	Kardus rumslagrad 4																										
P211-00112-01	Kaliber Original Portio	840	Satsnr:152-042		X						0,25																		
P211-00130-01	841 Kaliber Vit Portion		841 Kaliber Vit Port		X						0,57																		
P211-00145-01	06 Extra Strong Long PS	901	La Famiglia								0,78																		
P211-00145-02	06 Extra Strong Long PS	901	La Famiglia																										
P211-00180-01	N&J Crushed Ice	902	1987N&JCrushedIce		X						0,69																		
P211-00185-01	Kaliber Strong PSWL	6451	6451Kaliber_Strong		X						1,31																		
P211-00186-01	Kaliber Strong PSOL	6454	6454Kaliber_Strong		X						0,45																		
P211-00190-01	06 Extra Strong Long PS	901	06Extra_Strong	3	X						0,87																		
P211-00190-02	06 Extra Strong Long PS	901	06Extra_Strong	20																									
P211-00201-01	General Classic Blend	4877	(QAT)_satsnr.161-077		X					1200	0,18																		
P211-00201-02	General Nordic Mint	4876	(QAT)_satsnr.115-064		X					890	1,88																		
P211-00211-01	Kardus Superior Blend L	8859	Kyllagrad 6 mån																										
P211-00211-02	Kardus Superior Blend L	8859	Rumslagrad 6 mån																										
P211-00232-01	General Dry Mint PSOM	4800	Batchnr:161101		X					600	0,13	<30	<30	<30	1,8	<30	<30	<300	<30	<30	<30	<30	<30	118	<30	41,4	<30	<300	
P211-00234-01	Catch Dry WPS Mini Euca	865	Batchnr:154030		X					710	0,19	<30	<30	<30	<1	<30	<30	<300	<30	<30	<30	<30	<30	54,6	<30	<30	<30	<300	
P211-00238-01	Probe Lös 45g	831	Batchnr:141079		X					3500	1,05	<30	<30	<30	<1	<30	<30	<300	<30	<30	<30	<30	<30	254	<30	139	76,3	<30	470
P211-00239-01	Catch Dry WPS Mini Lico	861	Batchnr:12104		X					1200	0,55	<30	<30	<30	<1	<30	<30	<300	<30	<30	<30	<30	<30	228	<30	110	79,9	<30	420
P211-00245-01	Probe Large	871	Batchnummer 154035		X					720	0,61	<30	<30	<30	<1	<30	<30	<300	<30	<30	<30	<30	<30	186	<30	85,7	74,5	<30	350
P211-00248-01	Catch Dry WPS Mini Lico	861	Batchnr:121111		X					1200	0,44	<30	<30	<30	<1	<30	<30	<300	<30	<30	104	<30	<30	205	<30	101	63,9	<30	470
P211-00249-01	Catch Dry WPS Mini Euca	865	Batchnr:112112		X					1200	0,41	<30	<30	<30	<1	<30	<30	<300	<30	<30	<30	<30	<30	108	<30	69,2	75,6	<30	<300
P211-00253-01	Catch Dry WPS Mini Lico	861	Batchnr:112119		X					1200	0,55	<30	<30	<30	<1	<30	<30	<300	<30	<30	<30	<30	<30	103	<30	66,2	59,9	<30	<300
P211-00254-01	Catch Dry WPS Mini Euca	865	Batchnr:112118		X					1100	0,49	<30	<30	<30	<1	<30	<30	<300	<30	<30	<30	<30	<30	77	<30	61,4	57,4	<30	<300
P211-00255-01	General Green Harvest	8883	Satsnr. 161118		X					530	0,27	<30	<30	<30	<1	<30	<30	<300	<30	<30	<30	<30	<30	<30	<30	<30	<30	<300	
P211-00255-02	General Green Harvest	8883	Satsnr. 161118	20																									
P211-00258-01	Probe Large	871	Batchnr:152108							530	0,51	<30	<30	<30	<1	<30	<30	<300	<30	<30	<30	<30	<30	151	<30	126	55,8	<30	330
P211-00265-02	06 Extra Strong Long PS	901	Prov2,08:05			0,934																							
P211-00265-03	06 Extra Strong Long PS	901	Prov3,09:40			0,842																							
P211-00265-04	06 Extra Strong Long PS	901	Prov4,09:40			0,902																							
P211-00265-05	06 Extra Strong Long PS	901	Prov5,10:40			0,892																							
P211-00265-06	06 Extra Strong Long PS	901	Prov6,10:40			0,899																							
P211-00265-07	06 Extra Strong Long PS	901	Prov7,11:40			0,863																							
P211-00265-08	06 Extra Strong Long PS	901	Prov8,11:40			0,923																							
P211-00265-09	06 Extra Strong Long PS	901	Prov9,13:15			0,954																							
P211-00265-10	06 Extra Strong Long PS	901	Prov10,13:15			0,927																							
P211-00266-01	06 Extra Strong Long PS	901	Batchnr:112131		X					1700	0,85	<30	<30	<30	<1	<30	<30	<300	<30	<30	58,3	<30	459	<30	336	154	<30	1000	
P211-00266-02	06 Extra Strong Long PS	901	Batchnr:112131	20																									
P211-00270-01	Probe Lös 45g	831	Batchnr:122108		X					4200	0,87	<30	<30	<30	<1	<30	<30	<300	<30	<30	<30	<30	<30	152	<30	97,3	60,3	<30	310
P211-00271-01	05 White Strong Long 21	824	Prodbatch:22076		X					900	0,89	<30	<30	<30	<1	<30	<30	<300	<30	<30	<30	<30	<30	280	<30	187	70,9	<30	540
P211-00271-02	05 White Strong Long 21	824	Prodbatch:22076	20																									
P211-00278-01	06 Extra Strong Long PS	901	110818,530,D,112139		X					1400	0,7	<30	<30	<30	<1	<30	<30	<300	<30	<30	50,9	<30	526	<30	289	158	<30	1000	
P211-00288-01	General Dry Mint PSOM	4800	Batchnr:161137							970	0,33	<30	<30	<30	<1	<30	<30	<300	<30	<30	<30	94,9	167	<30	78,2	48,7	<30	390	

More results for Sample no	Article	Art. no	Remarks	Age W	C	Unit weight g as is	Sum Gin senosid mg/g	Sum Gin senosid mg/g as	Sum Gin senosid mg/st	AA CAS ppb	Ethanol vikt %	B(a)A ppb	Chrys- ene ppb	B(b,k)F ppb	B(a)P ppb	I(1,2,- 3-cd)P ppb	D(a,h)A ppb	Sum canPAH ppb	Naph- thalene ppb	Acenap- hthylene ppb	Fluo- rene ppb	Acenap- hthene ppb	Phenan- threne ppb	Anthra- cene ppb	Fluor- anthene ppb	Pyrene ppb	B(g,- h,i)P ppb	Sum othPAH ppb
P211-00292-01	Probe Large	871	Batchnr:154053		X					880	0,89	<30	<30	<30	<1	<30	<30	<300	<30	<30	<30	<30	<30	<30	<30	<30	<30	<300
P211-00296-01	General Green Harvest	8883	Batch61141,1:a _prod.		X					500	0,15	<30	<30	<30	<1	<30	<30	<300	<30	<30	<30	<30	<30	<30	<30	<30	<30	<300
P211-00298-01			Gen.PSOL,s.nr.134116		X																							
P211-00298-02			Gen.PSOL,s.nr.134114		X																							
P211-00302-01	General Green Harvest	8883	Batch61150,2:a _prod.		X					680	0,22	<30	<30	<30	<1	<30	<30	<300	<30	<30	<30	<30	<30	<30	<30	<30	<30	<300
P211-00303-01	Probe Lös 45g	831	Batch122-6		X					3900	0,97	<30	<30	<30	<1	<30	<30	<300	<30	<30	83	<30	593	<30	217	107	<30	1000
P211-00304-01	Catch Collection PSWM 1	838	QAT110914,sats115142		X					820	2,16	<30	<30	<30	<1	<30	<30	<300	<30	<30	<30	<30	484	<30	72,6	<30	<30	560
P211-00311-01	Grovsnus Svart	898	1:a dosan,L:530,P1		X	1,026	<0,0007	<0,0007	<0,0007																			
P211-00311-02	Grovsnus Svart	898	1:a dosan,L:530,P2			0,944	<0,0007	<0,0007	<0,0007																			
P211-00311-03	Grovsnus Svart	898	1:a dosan,L:530,P3			1,006	<0,0007	<0,0007	<0,0007																			
P211-00311-04	Grovsnus Svart	898	1:a dosan,L:530,P4			1,016	<0,0007	<0,0007	<0,0007																			
P211-00312-01			Kardus 2011, ny prod		X					600	2,3	<30	<30	<30	<1	<30	<30	<300	<30	<30	<30	<30	<30	<30	<30	<30	<30	<300
P211-00312-02			Kardus 2011, ny prod																									
P211-00316-01		901	1) REF 12-155 46,5 %		X	0,952																						
P211-00316-02		901	2) Utv. mjöl Pub. 46			0,91																						
P211-00316-03		901	3) Prod. mjöl Pub. 4			0,938																						
P211-00316-04		901	4) 12-155 44%			0,958																						
P211-00316-05		901	5) 12-155 42%			0,921																						
P211-00316-06		901	6) 12-155 44,3%			0,85																						
P211-00354-01	Parliament Intense Crea	1896	1:aprod.satsnr:61156		X					800	0,19	<30	<30	<30	<1	<30	<30	<300	<30	<30	<30	<30	128	<30	100	<30	<30	<300
P211-00354-02	Parliament Mint Creatio	1897	1:aprod.satsnr:61159							760	0,37	<30	<30	<30	<1	<30	<30	<300	<30	<30	<30	<30	100	<30	61,2	<30	<30	<300
P211-00354-03	Parliament Original Cre	1898	1:aprod.satsnr:61158							710	0,3	<30	<30	<30	<1	<30	<30	<300	<30	<30	<30	<30	103	<30	63,6	<30	<30	<300
P211-00354-04	Parliament Intense Crea	1896	1:aprod.satsnr:61156																									
P211-00354-05	Parliament Mint Creatio	1897	1:aprod.satsnr:61159																									
P211-00354-06	Parliament Original Cre	1898	1:aprod.satsnr:61158																									
P211-00383-01	06 Extra Strong Long PS	901	Batchnr: 112180							1100	0,9	<30	<30	<30	<1	<30	<30	<300	<30	<30	<30	<30	184	<30	105	51,8	<30	340
P211-00383-02	06 Extra Strong Long PS	901	Batchnr: 112180																									
P211-00391-01	Ettan White PS	876	1:a dosan,L:530,P1		X	0,931	<0,0007	<0,0007	<0,0007																			
P211-00391-02	Ettan White PS	876	1:a dosan,L:530,P2			0,949	<0,0007	<0,0007	<0,0007																			
P211-00391-03	Ettan White PS	876	1:a dosan,L:530,P3			0,929	<0,0007	<0,0007	<0,0007																			
P211-00391-04	Ettan White PS	876	1:a dosan,L:530,P4			0,942	<0,0007	<0,0007	<0,0007																			
P211-00402-01			6657 Marlboro Origin		X					880	0,51	<30	<30	<30	<1	<30	<30	<300	<30	<30	<30	<30	<30	<30	<30	<30	<30	<300
P211-00402-02			6656 Marlboro Mint S		X					870	0,44	<30	<30	<30	<1	<30	<30	<300	<30	<30	<30	<30	<30	<30	<30	<30	<30	<300
P211-00402-03			6657 Marlboro Origin	26	X																							
P211-00402-04			6656 Marlboro Mint S	26	X																							
P211-00406-01	General Dry Mint PSWM	4800	Batchnr:161185		X					840	0,28	<30	<30	<30	<1	<30	<30	<300	<30	<30	<30	<30	78,5	<30	69,6	38	<30	<300
P211-00424-01	General Long Extra Stro	8306	111125,530,D,12207		X					1300	0,47	<30	<30	<30	<1	<30	<30	<300	<30	<30	<30	<30	219	<30	185	65,7	<30	470
P211-00424-02	General Long Extra Stro	8306	111125,530,D,12207	20																								
P211-00425-01	General Titanium PSWL	6322	1:a prod,satsnr21106		X					970	1,85	<30	<30	<30	<1	<30	<30	<300	<30	<30	<30	<30	94	<30	74,9	59,5	<30	<300
P211-00425-02	General Titanium PSWL	6322	1:a prod,satsnr21106	26																								

All data are given on dry matter basis unless otherwise stated.