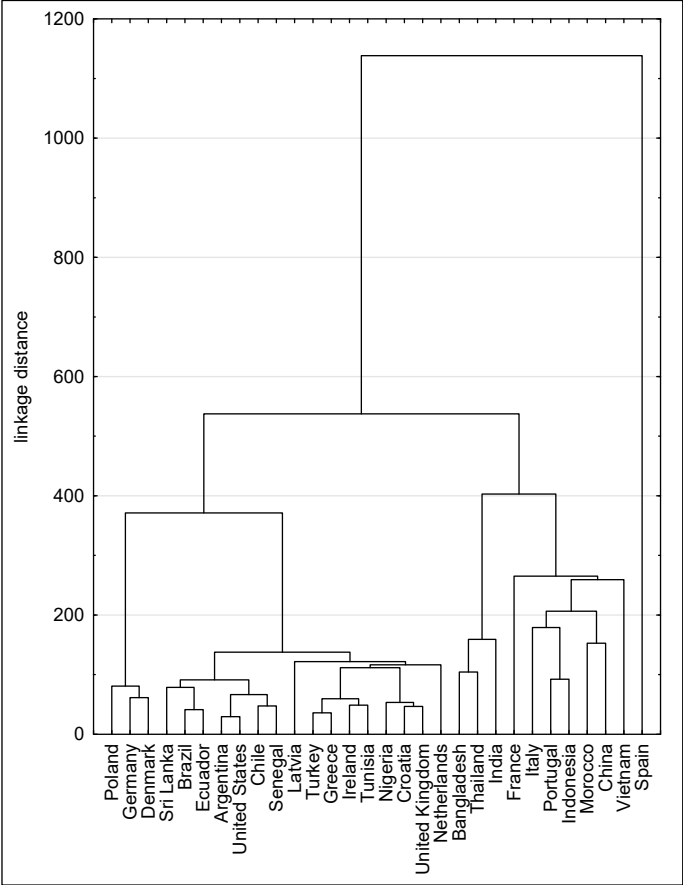
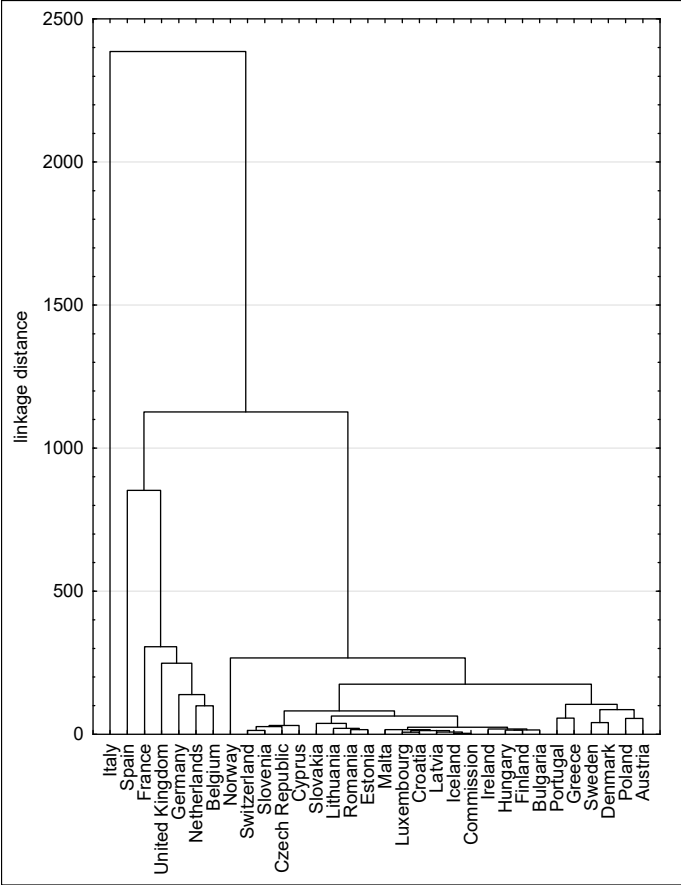
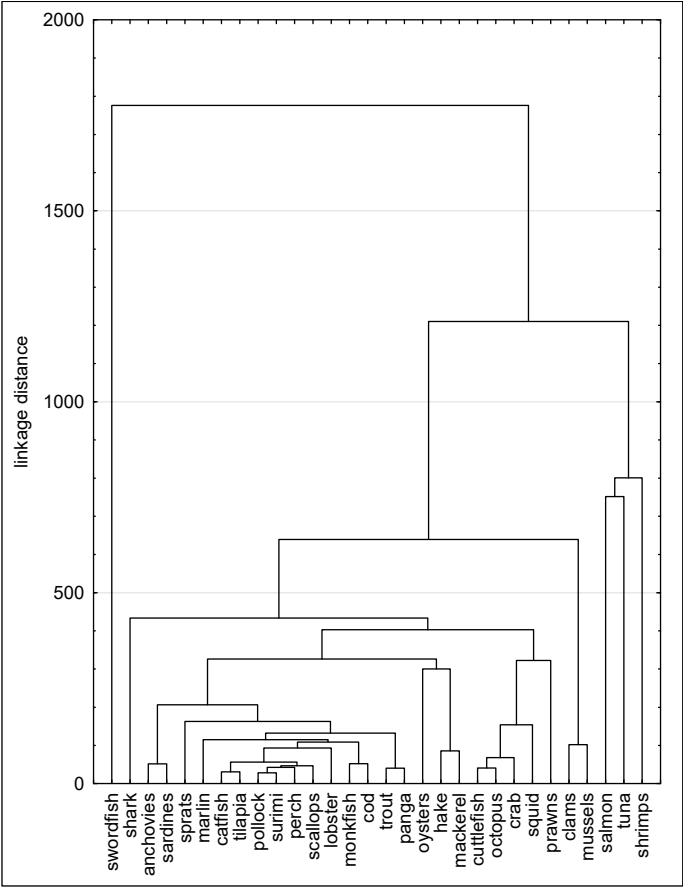
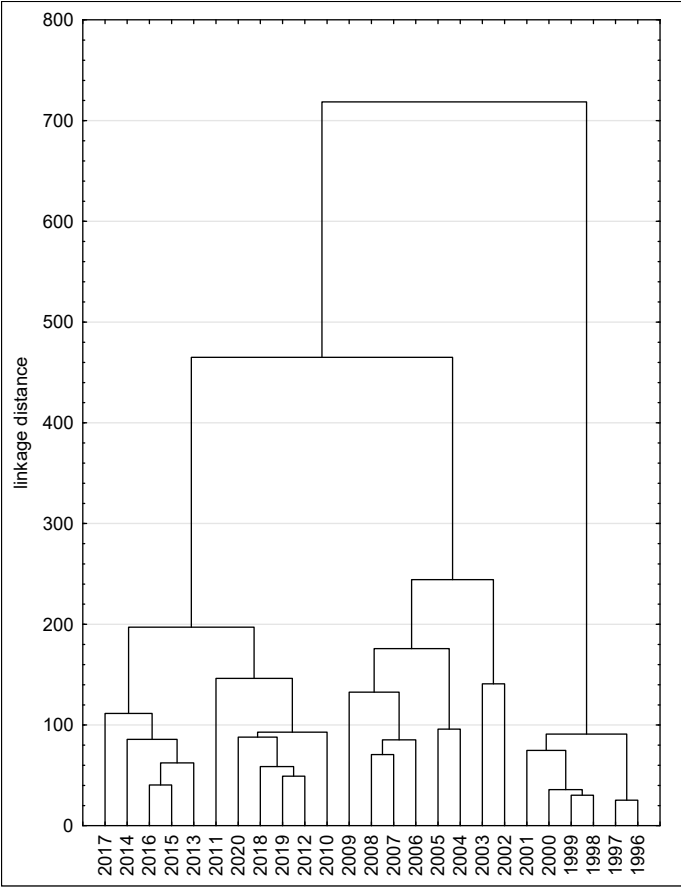
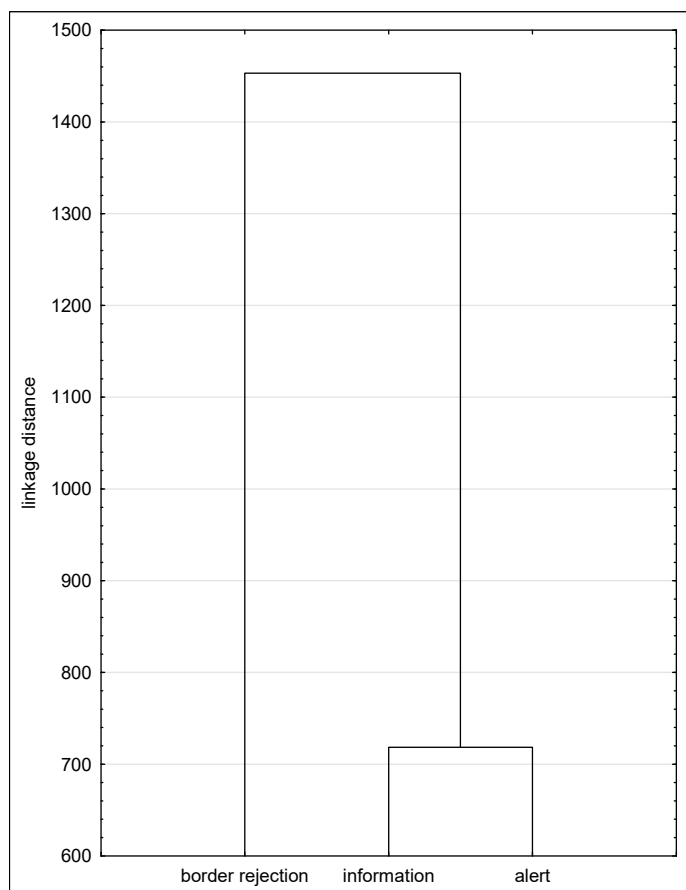
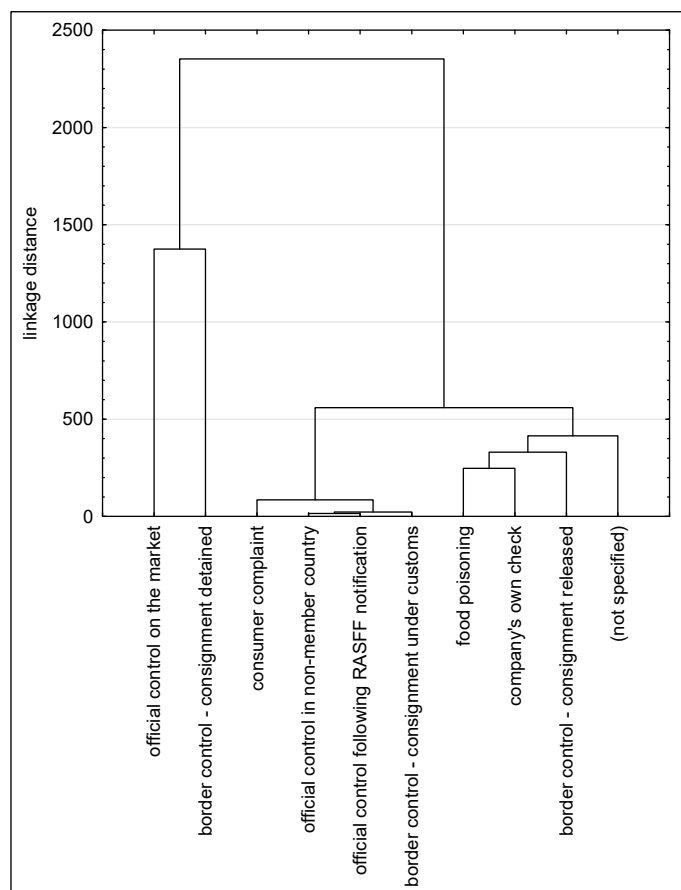


Supplementary Materials

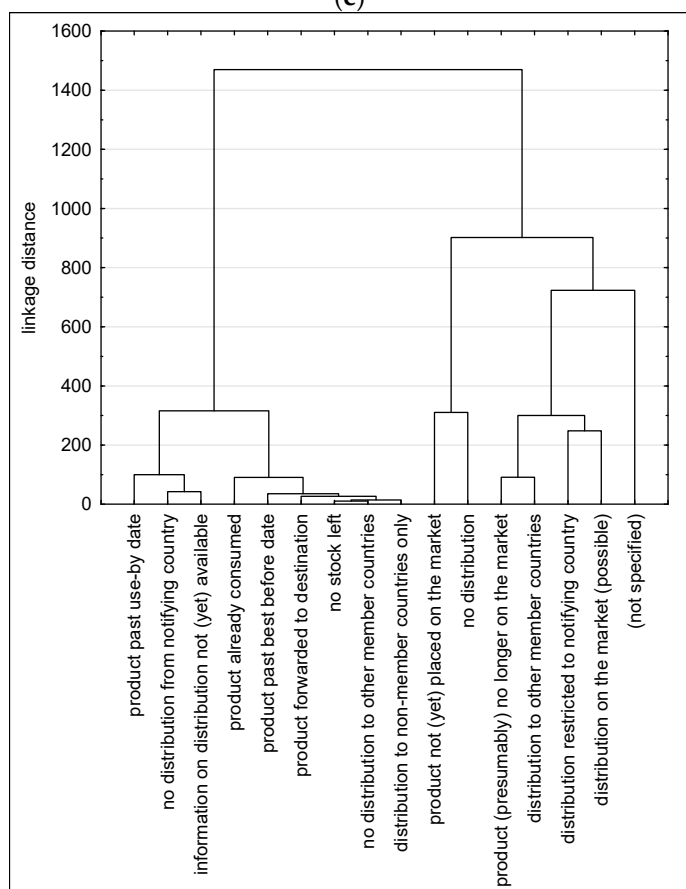




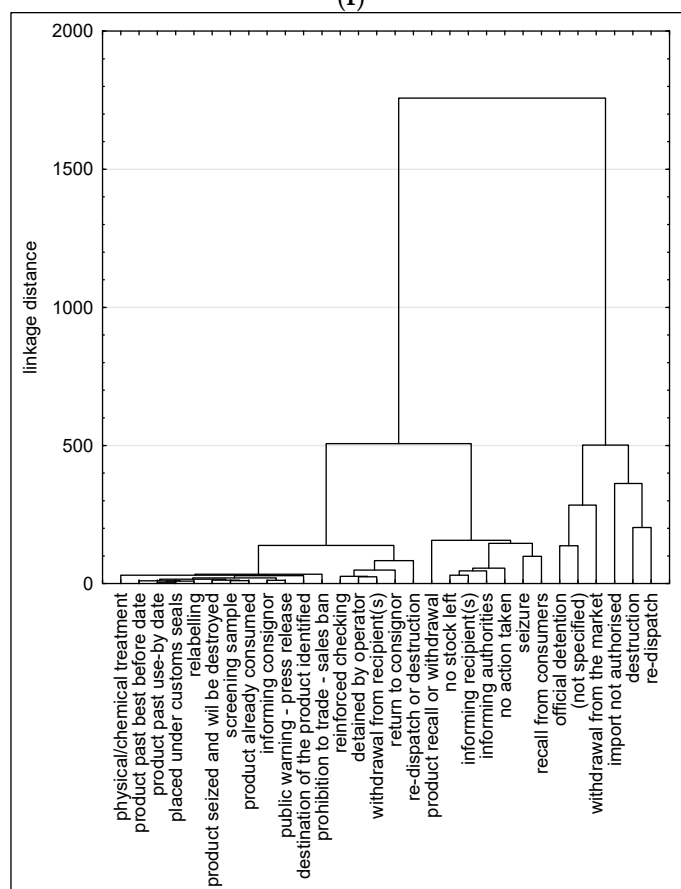
(e)



(f)

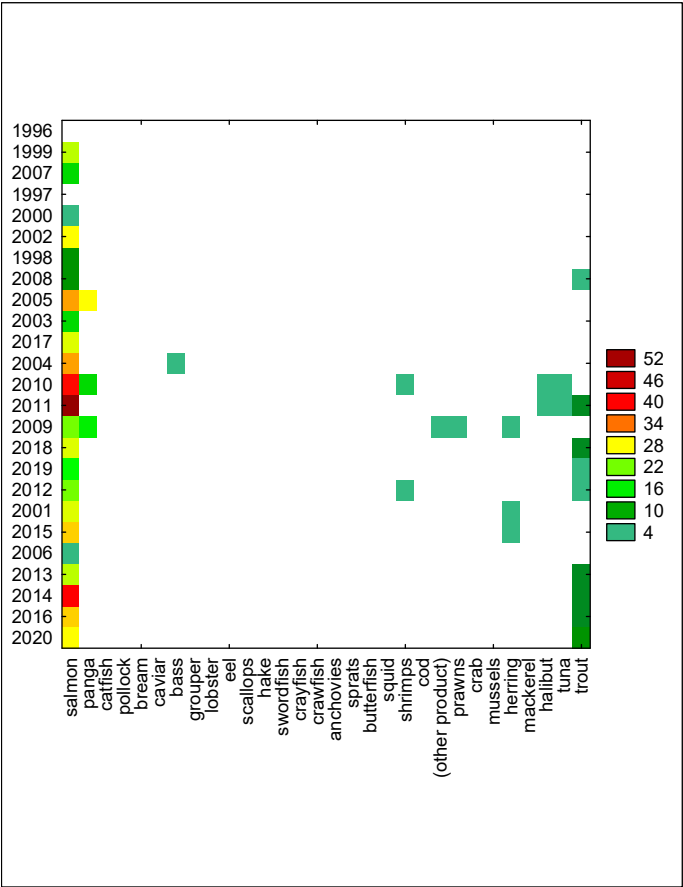


(g)

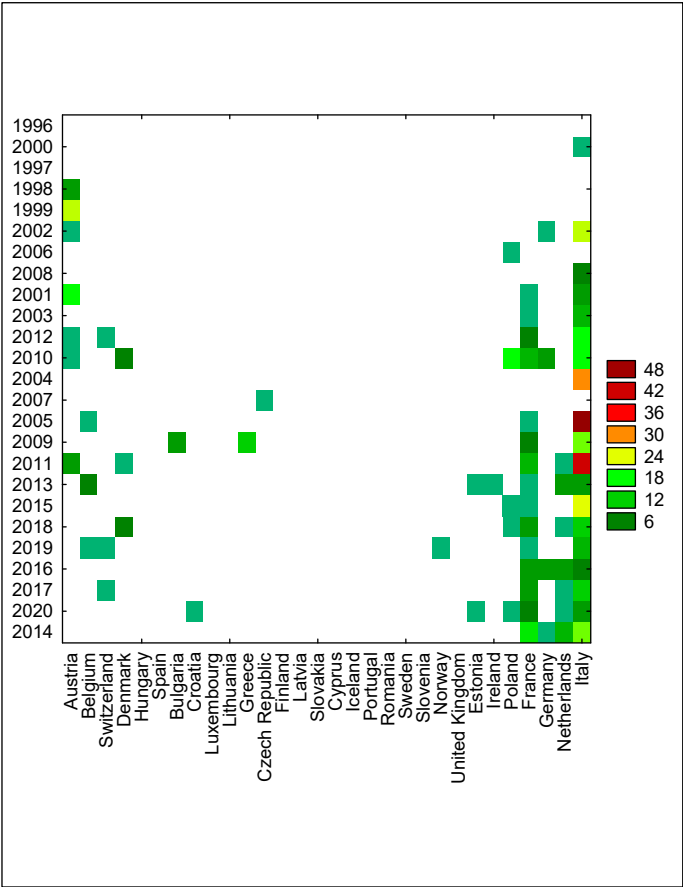


(h)

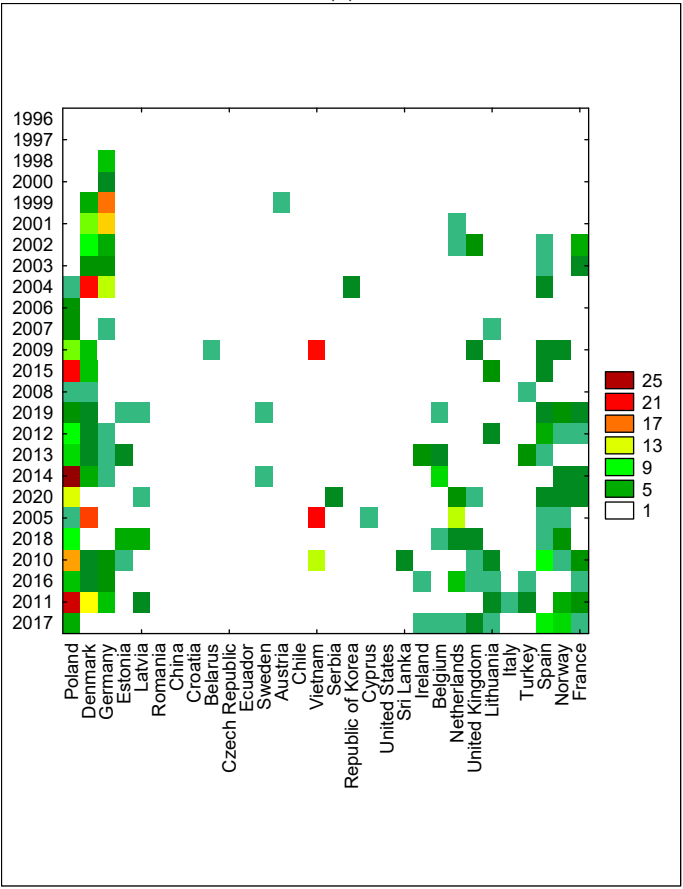
Figure S1. Results of joining cluster analysis; (a) year; (b) product; (c) notifying country; (d) country of origin; (e) notification type; (f) notification basis; (g) distribution status; (h) action taken.



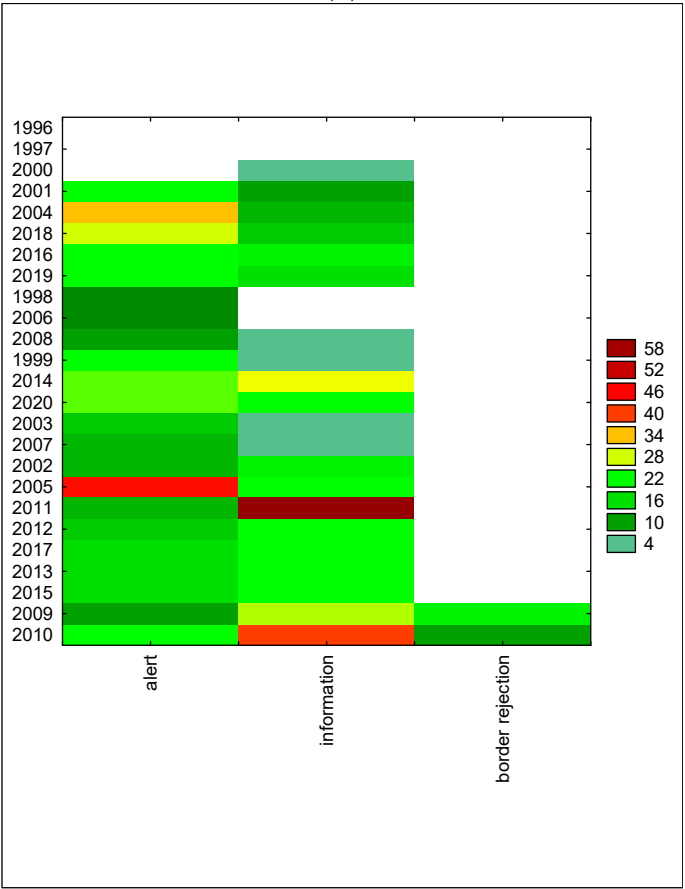
(a)



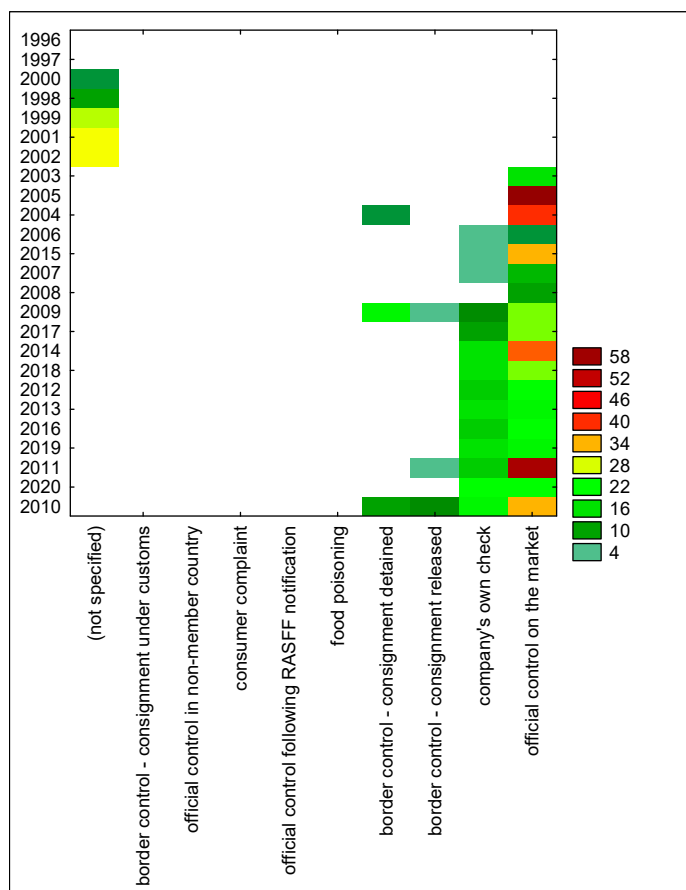
(b)



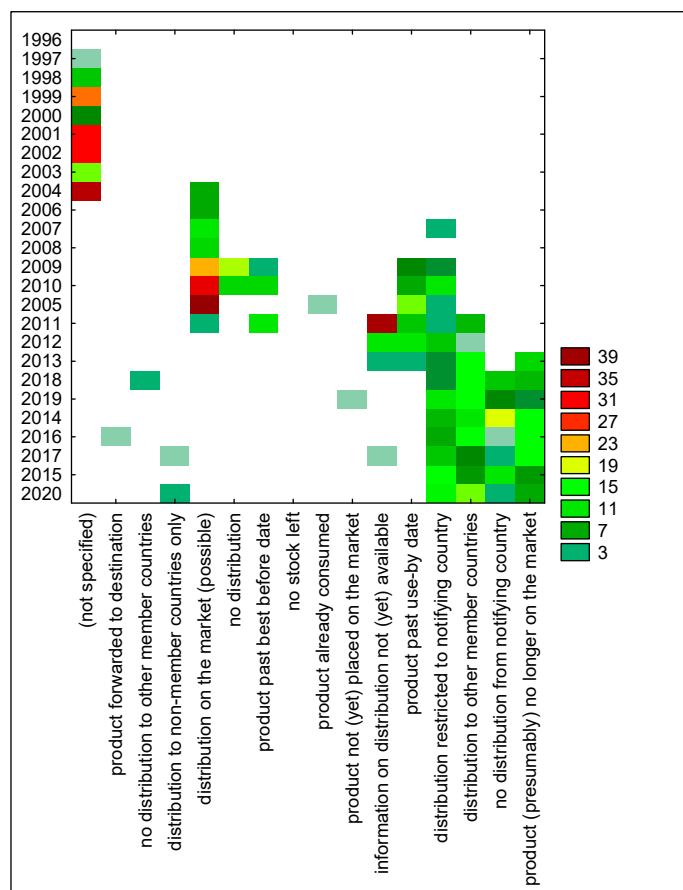
(c)



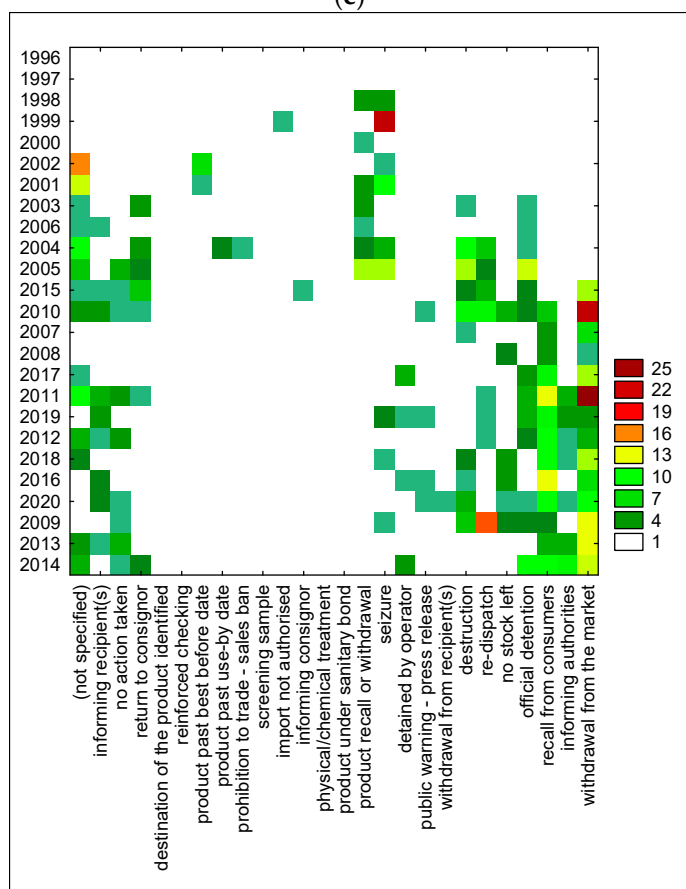
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(e)

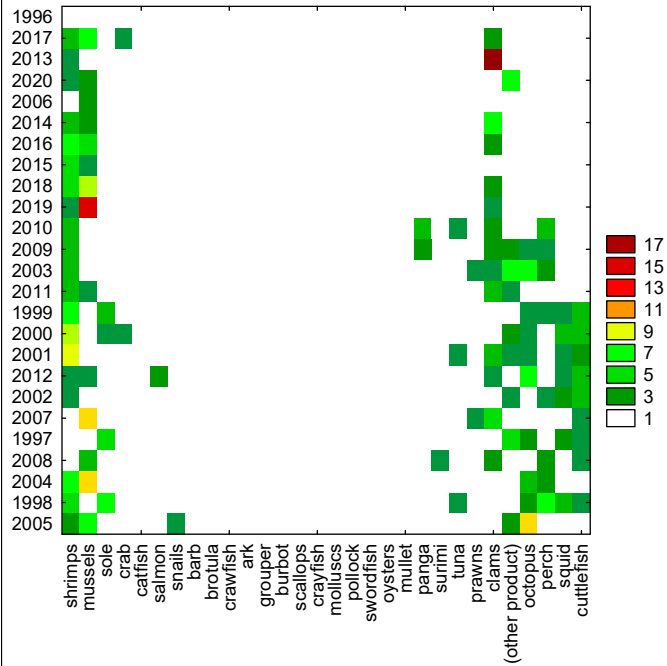


(f)

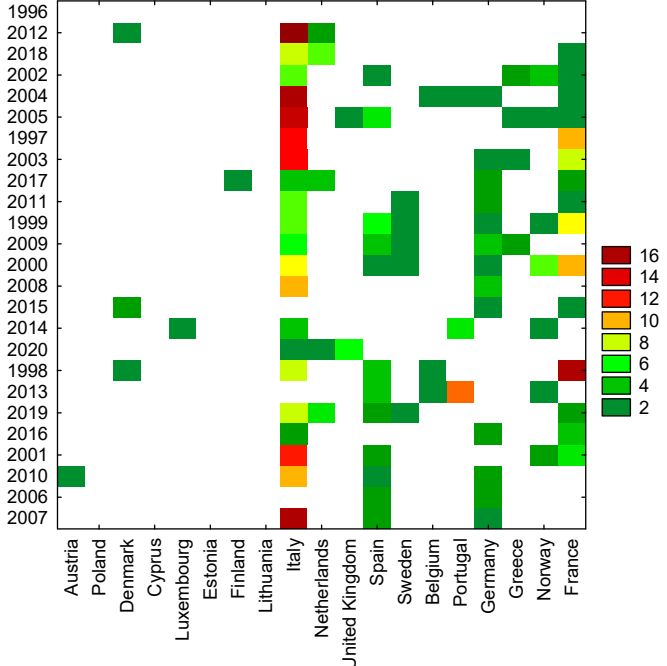


(g)

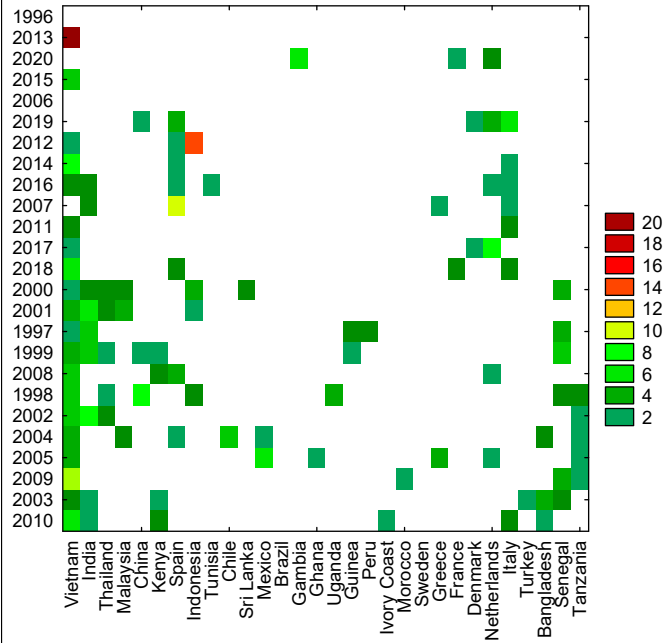
Figure S2. Results of two-way joining cluster analysis related to *Listeria*; (a) product; (b) notifying country; (c) country of origin; (d) notification type; (e) notification basis; (f) distribution status; (g) action taken.



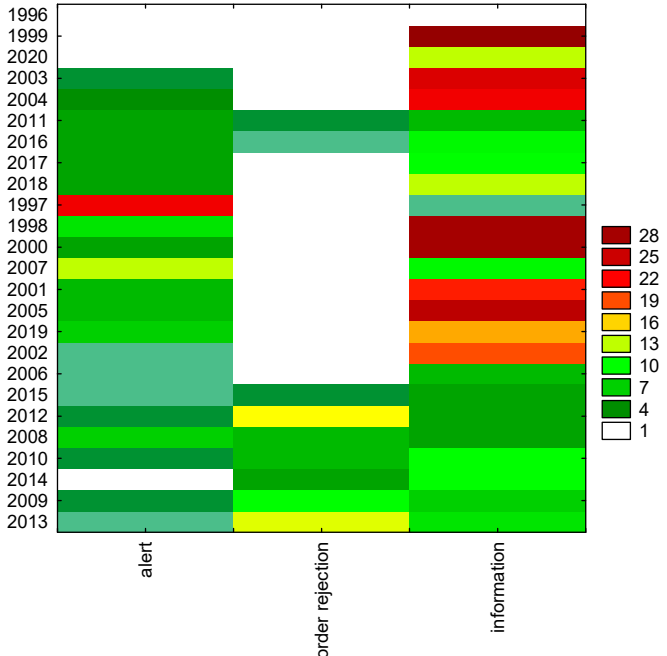
(a)



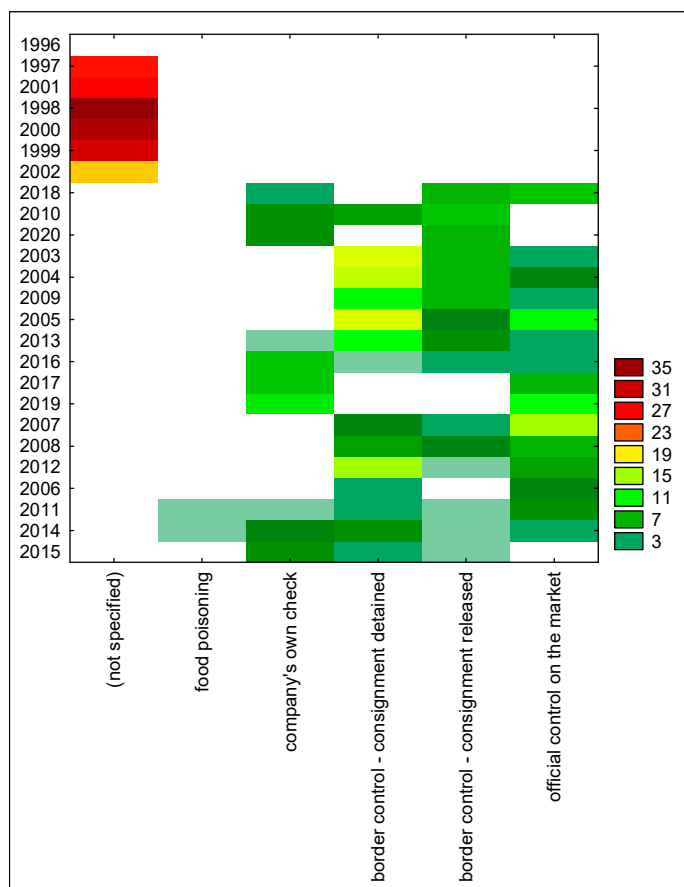
(b)



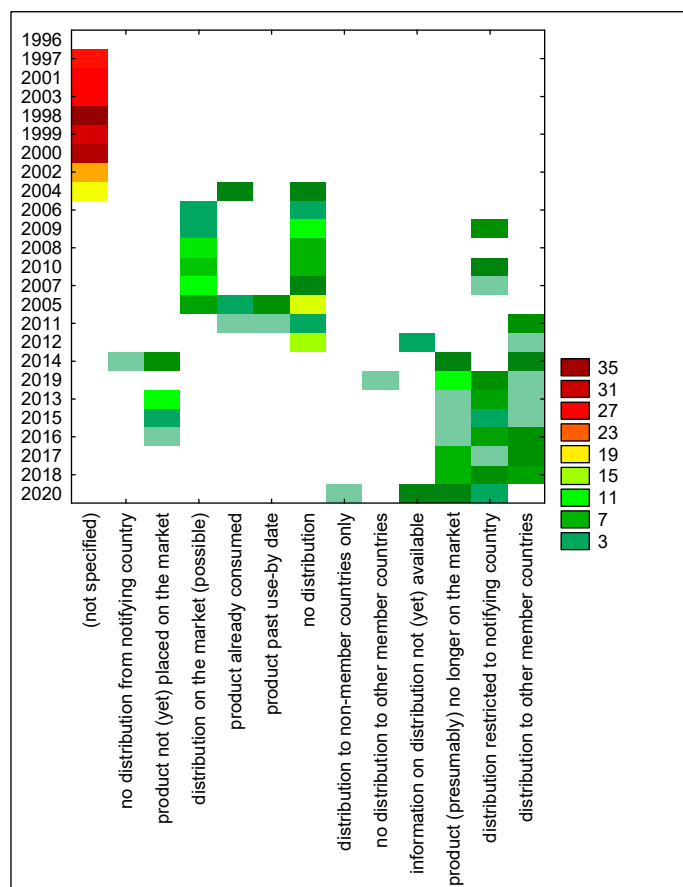
(c)



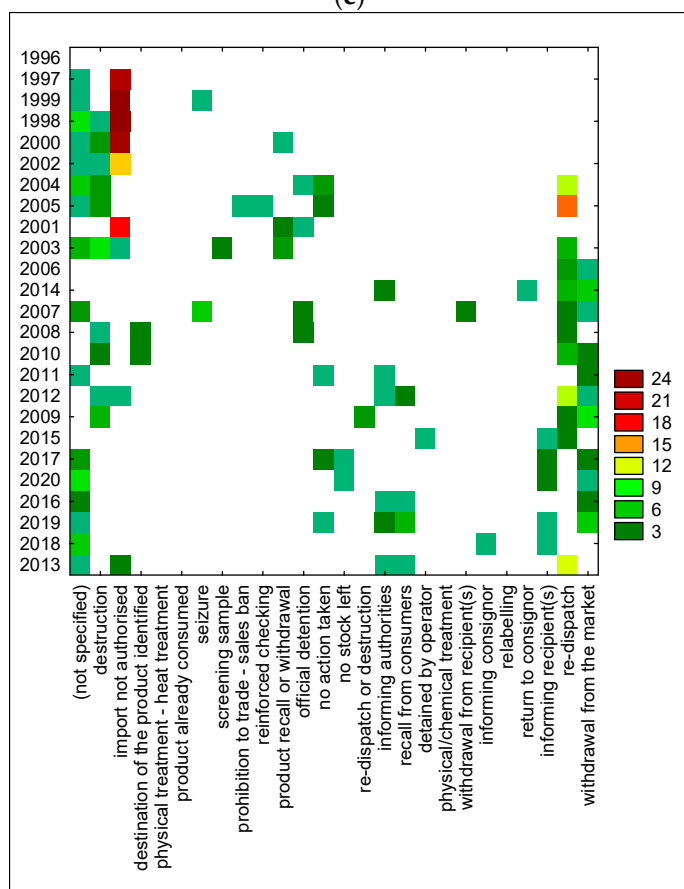
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(e)

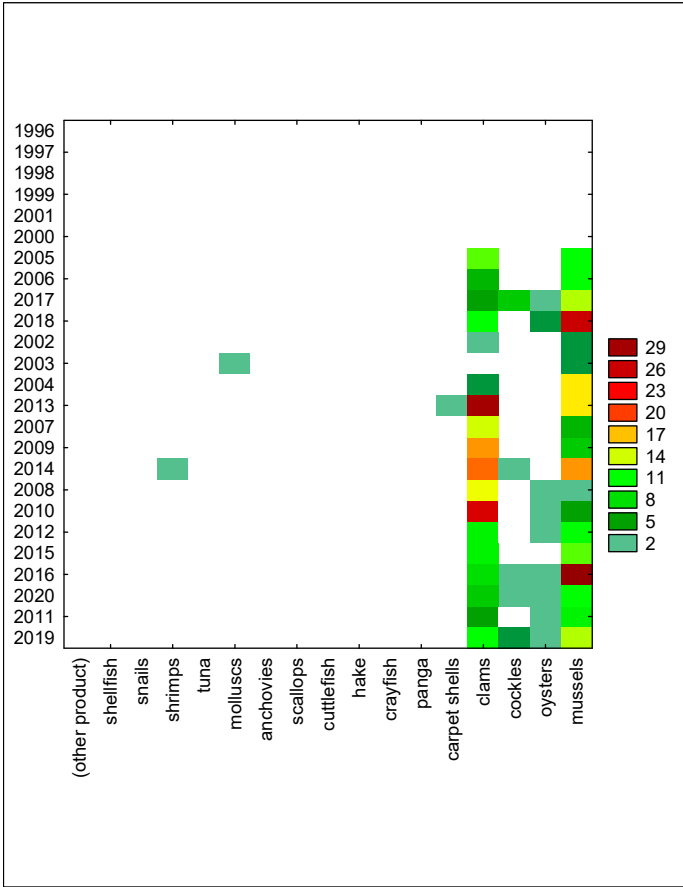


(f)

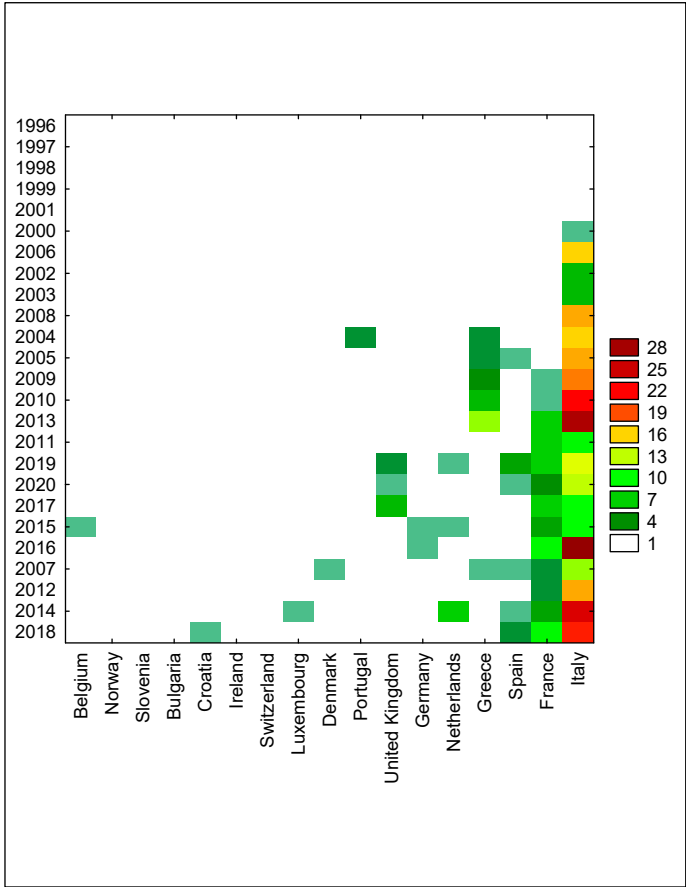


(g)

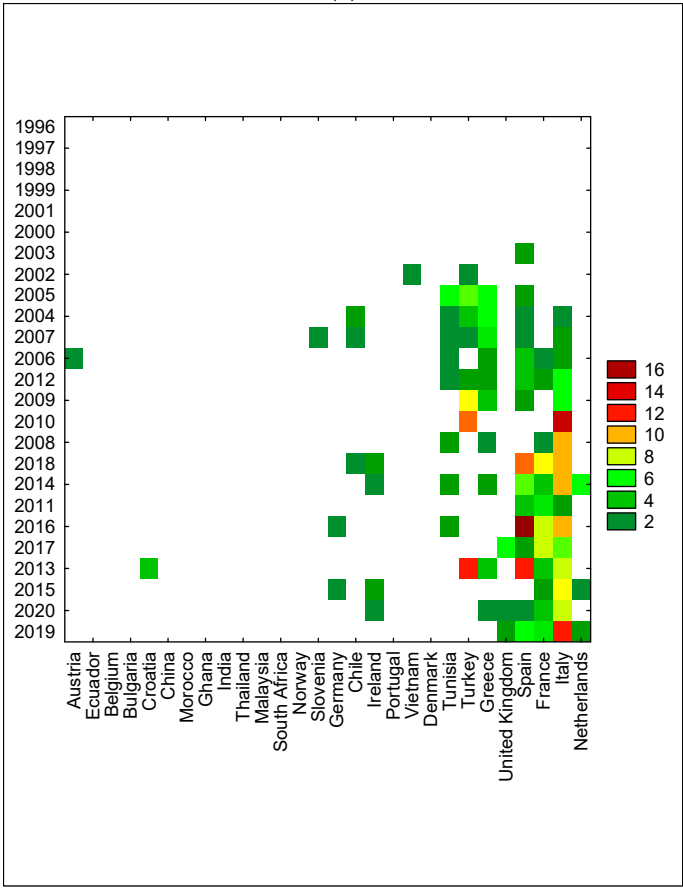
Figure S3. Results of two-way joining cluster analysis related to *Salmonella*; (a) product; (b) notifying country; (c) country of origin; (d) notification type; (e) notification basis; (f) distribution status; (g) action taken.



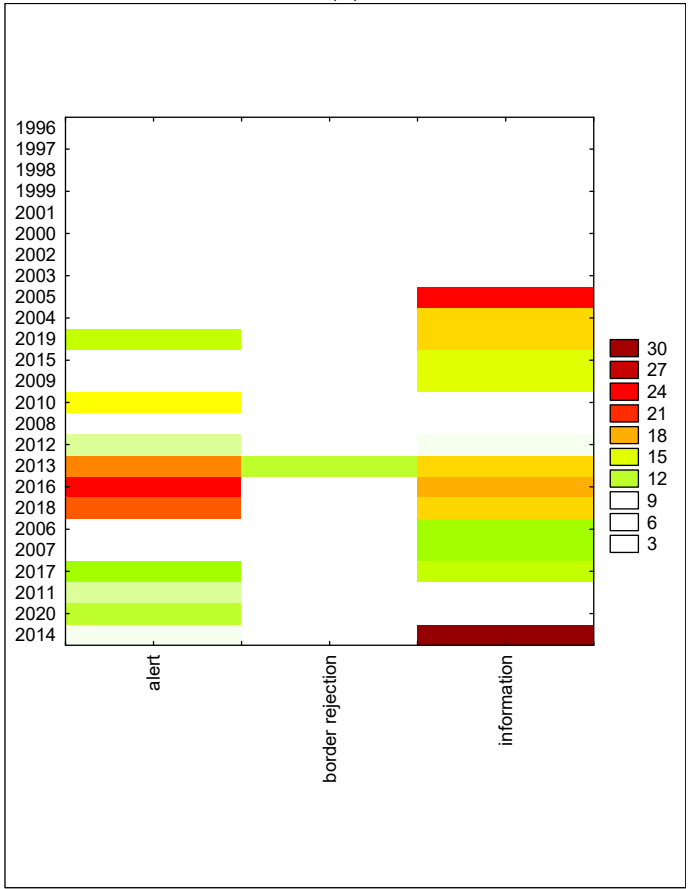
(a)



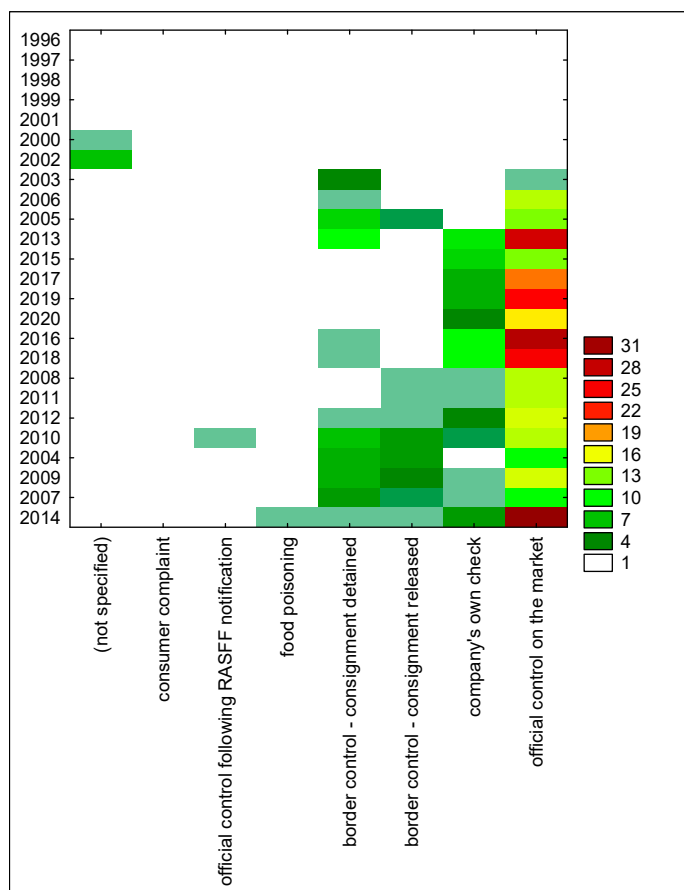
(b)



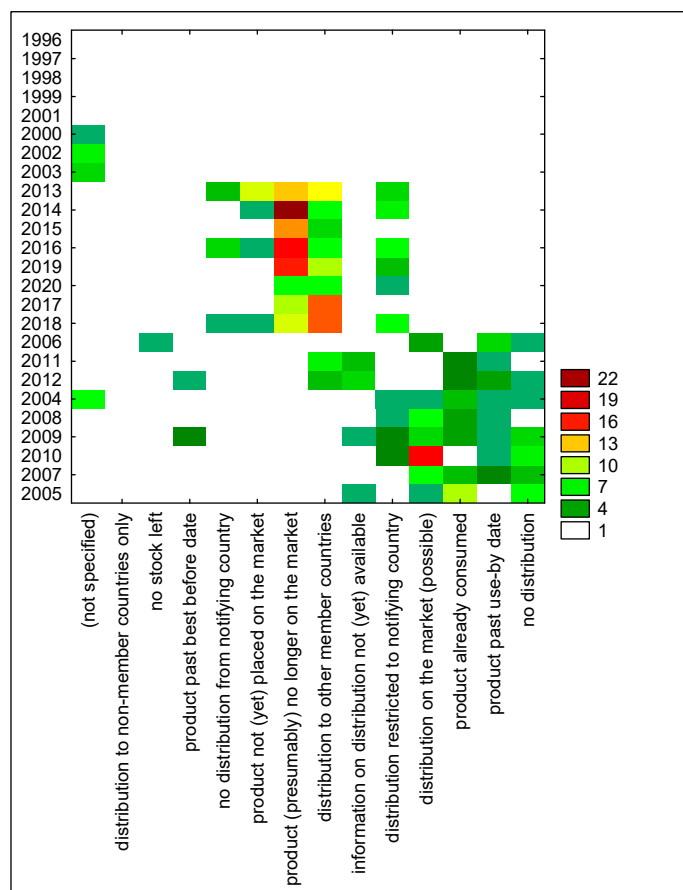
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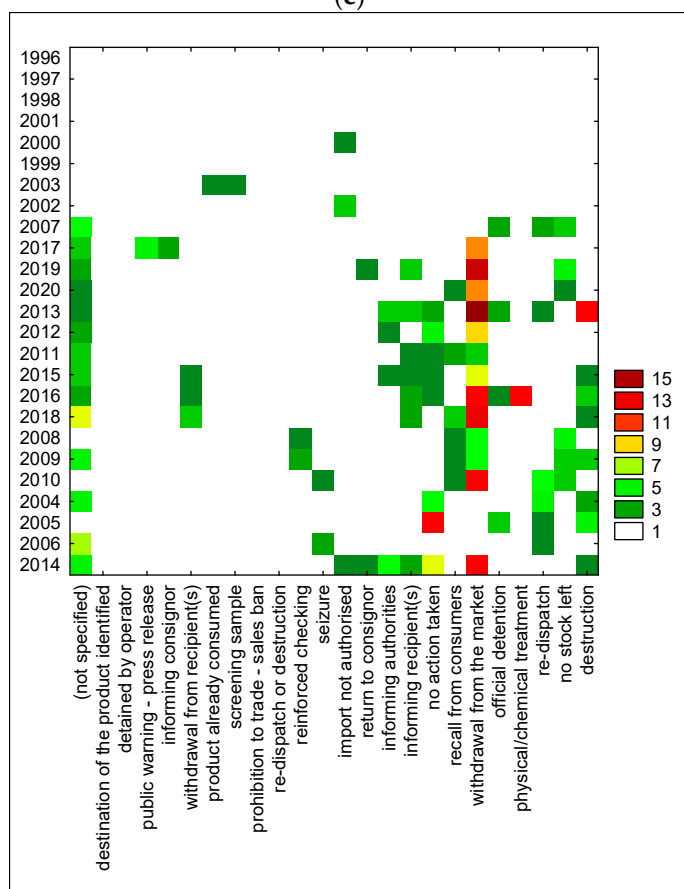
(d)



(e)

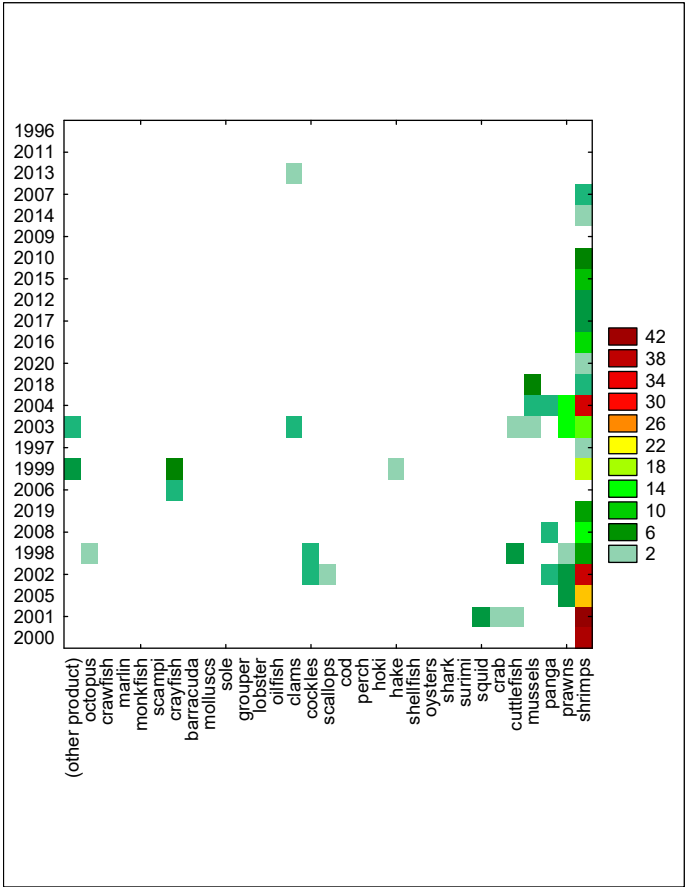


(f)

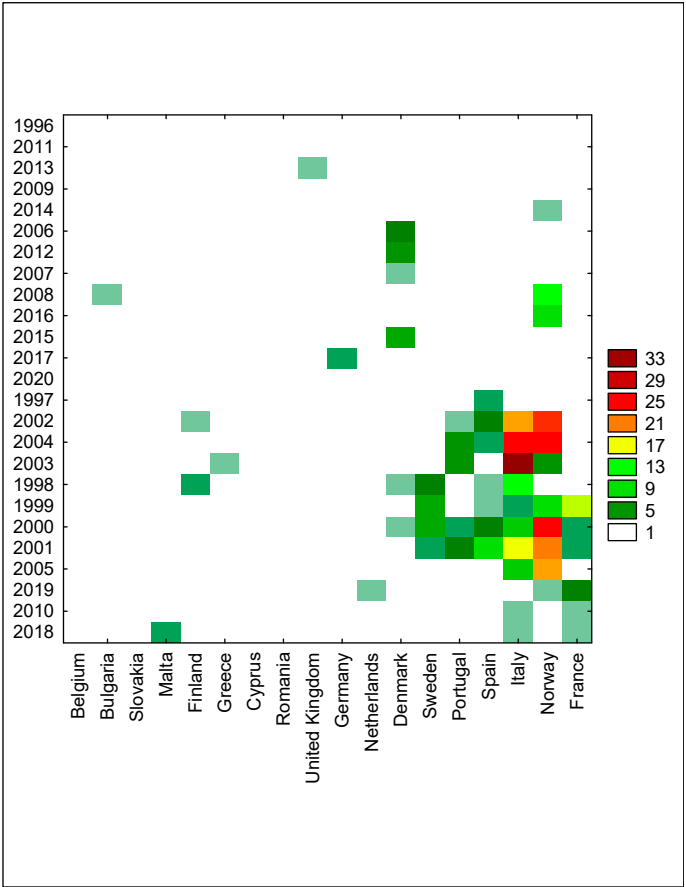


(g)

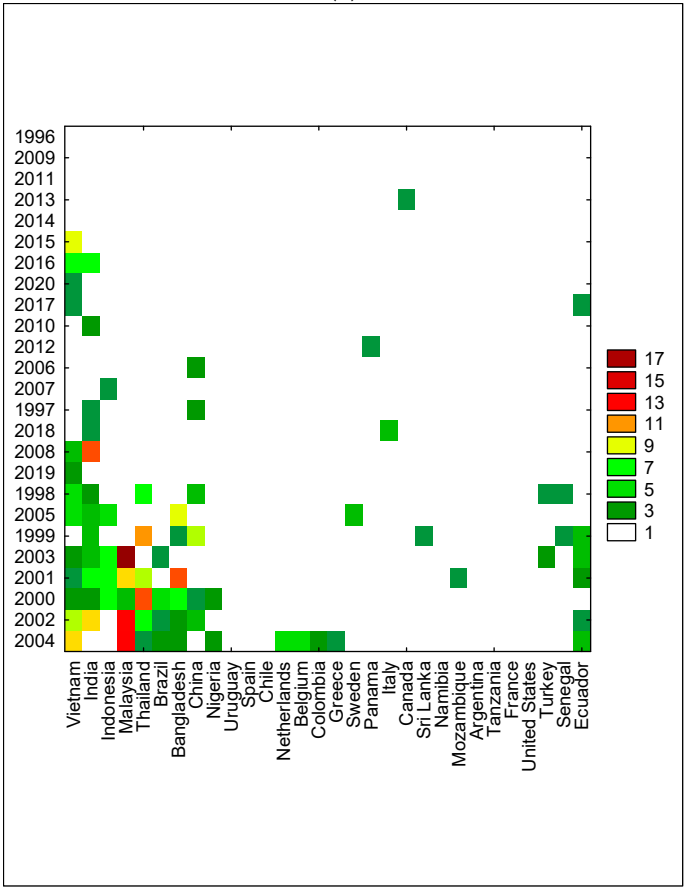
Figure S4. Results of two-way joining cluster analysis related to *Escherichia coli*; (a) product; (b) notifying country; (c) country of origin; (d) notification type; (e) notification basis; (f) distribution status; (g) action taken.



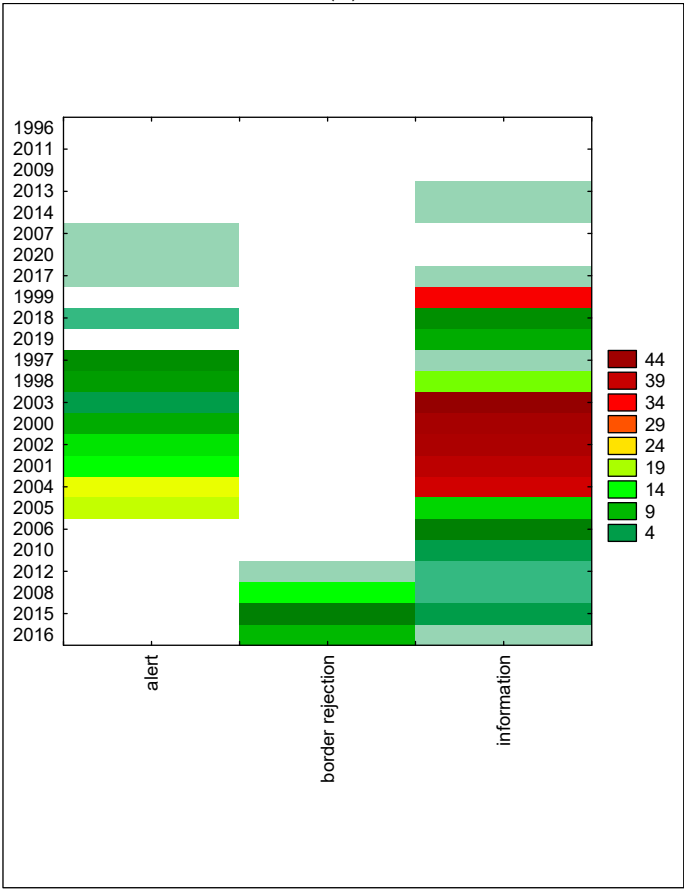
(a)



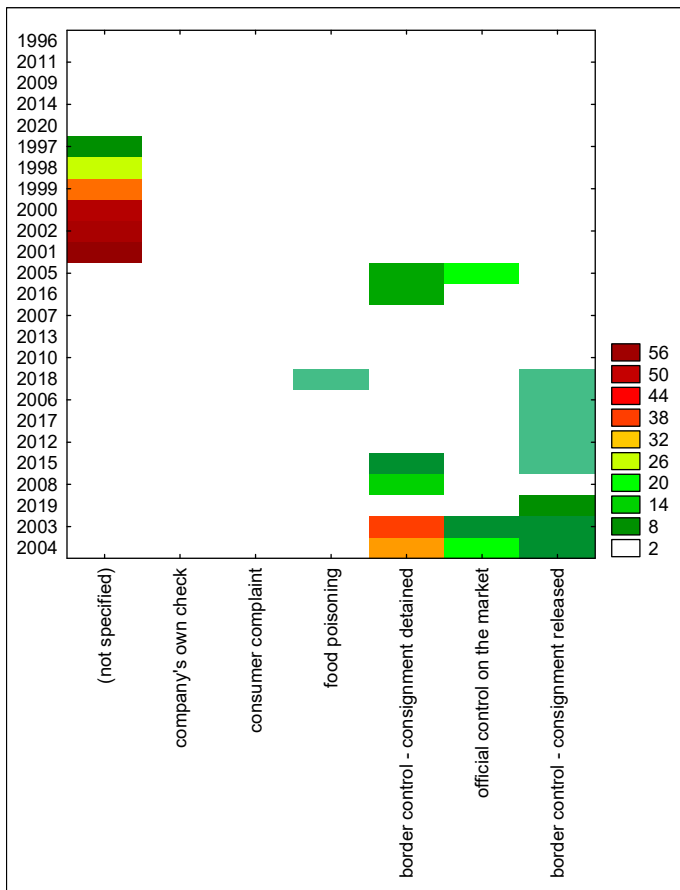
(b)



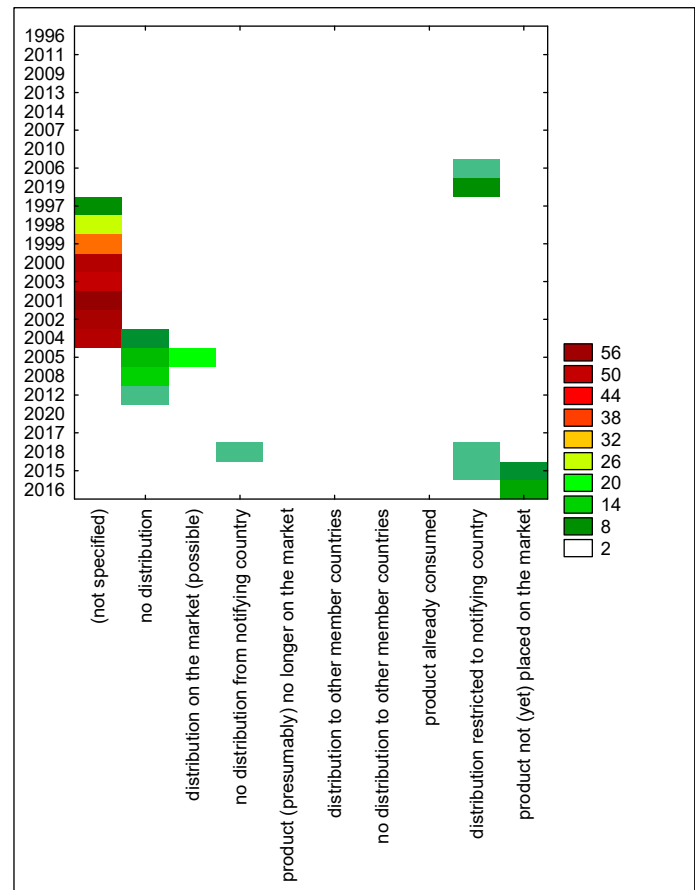
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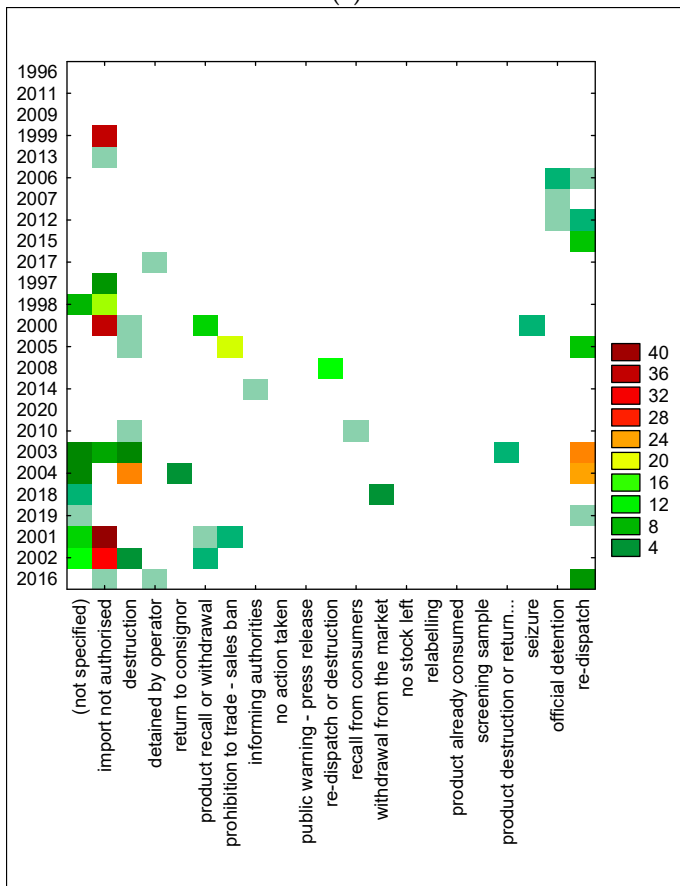
(d)



(e)

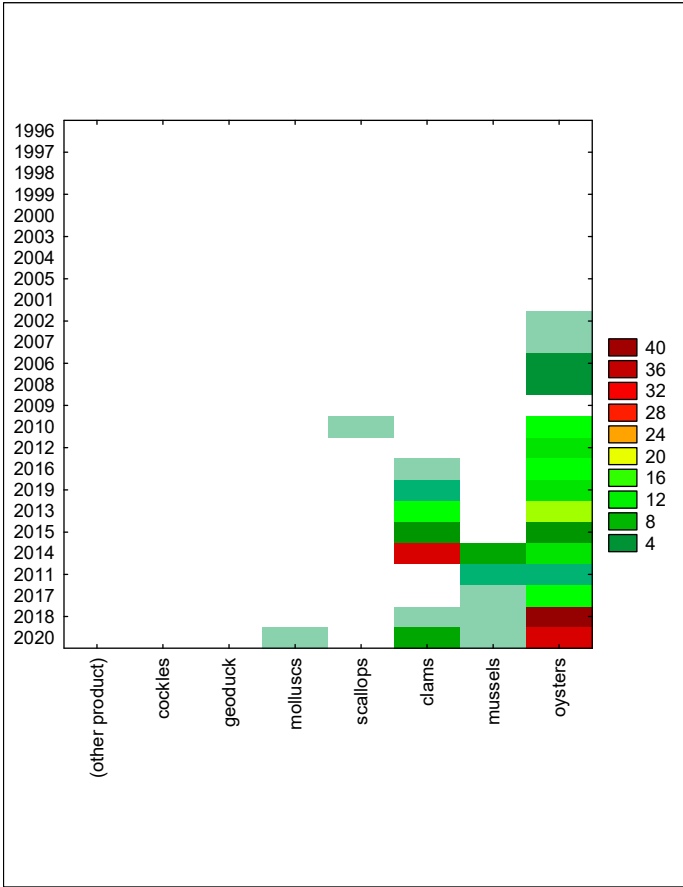


(f)

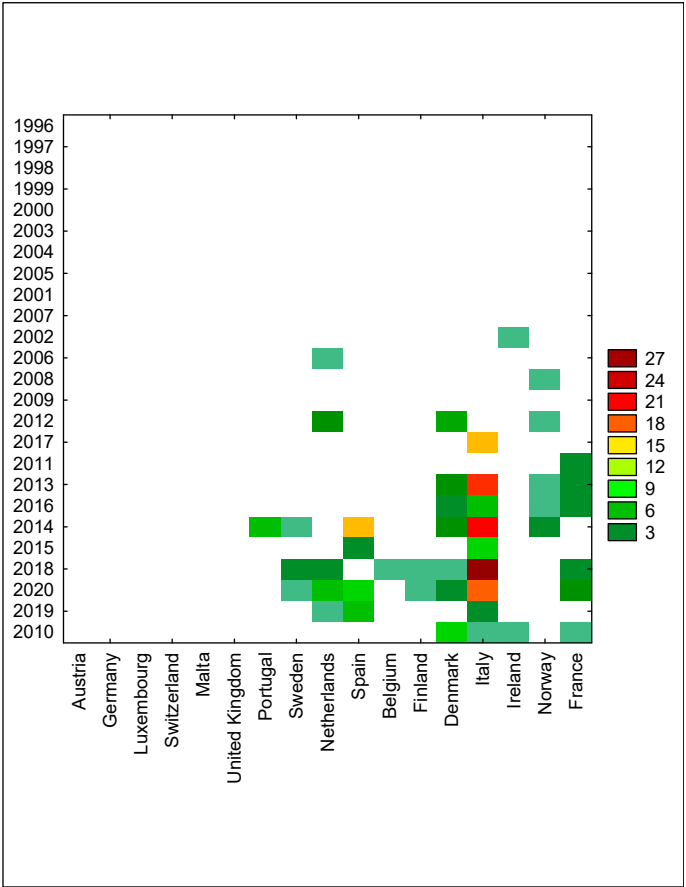


(g)

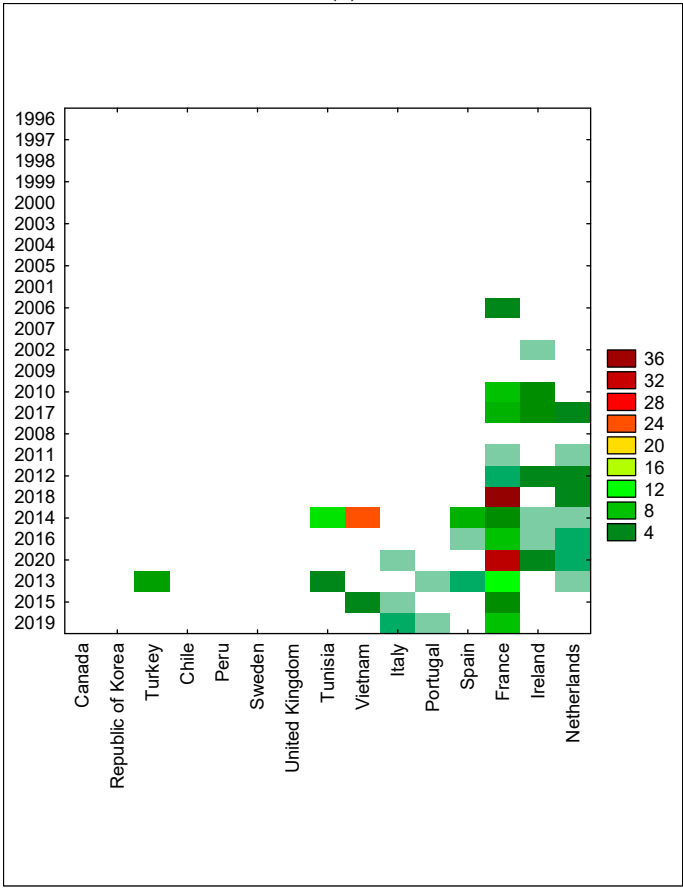
Figure S5. Results of two-way joining cluster analysis related to *Vibrio*; (a) product; (b) notifying country; (c) country of origin; (d) notification type; (e) notification basis; (f) distribution status; (g) action taken.



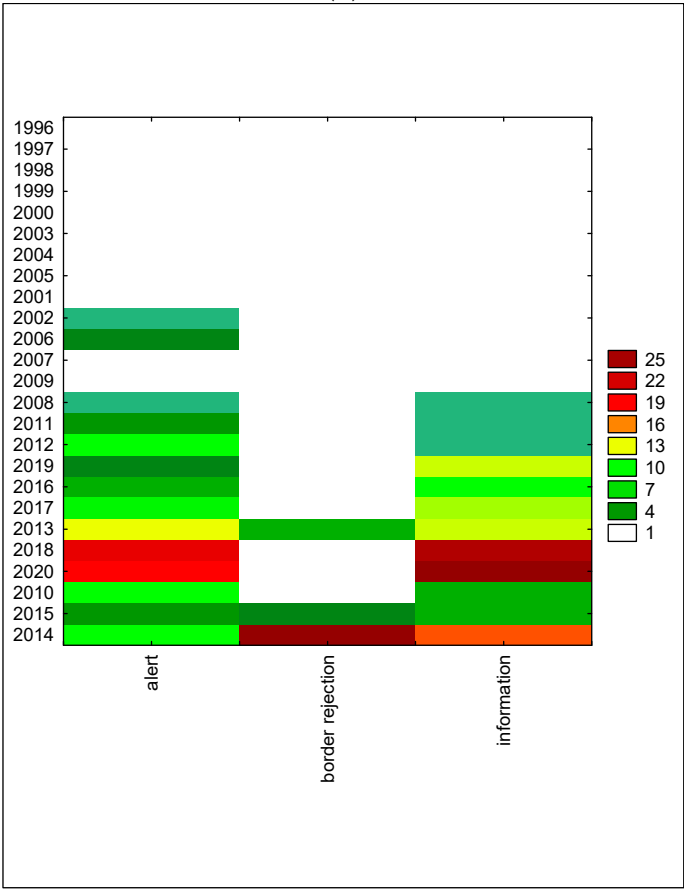
(a)



(b)



(c)



(d)

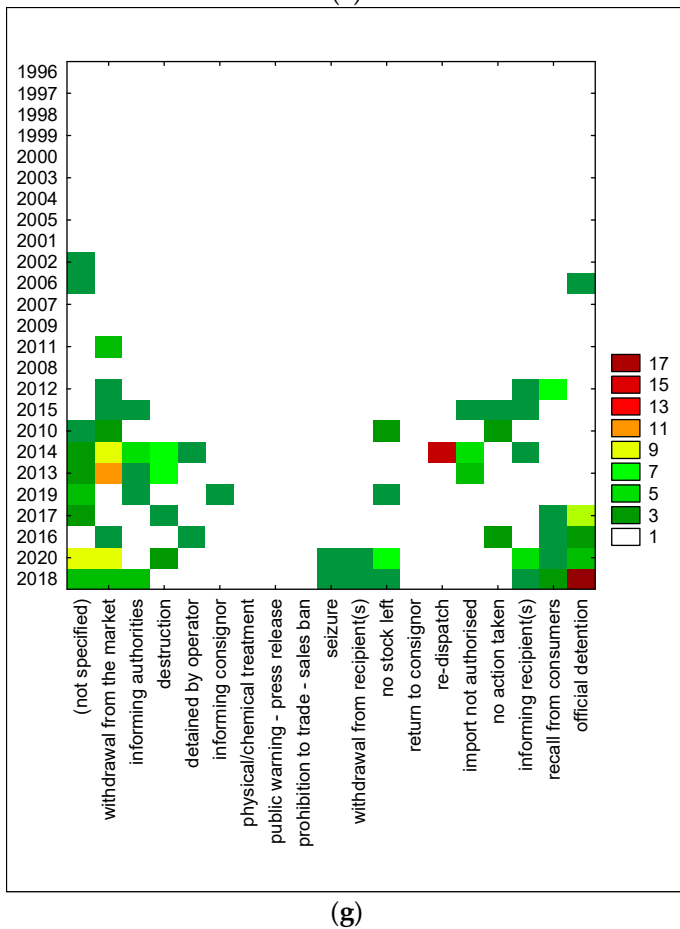
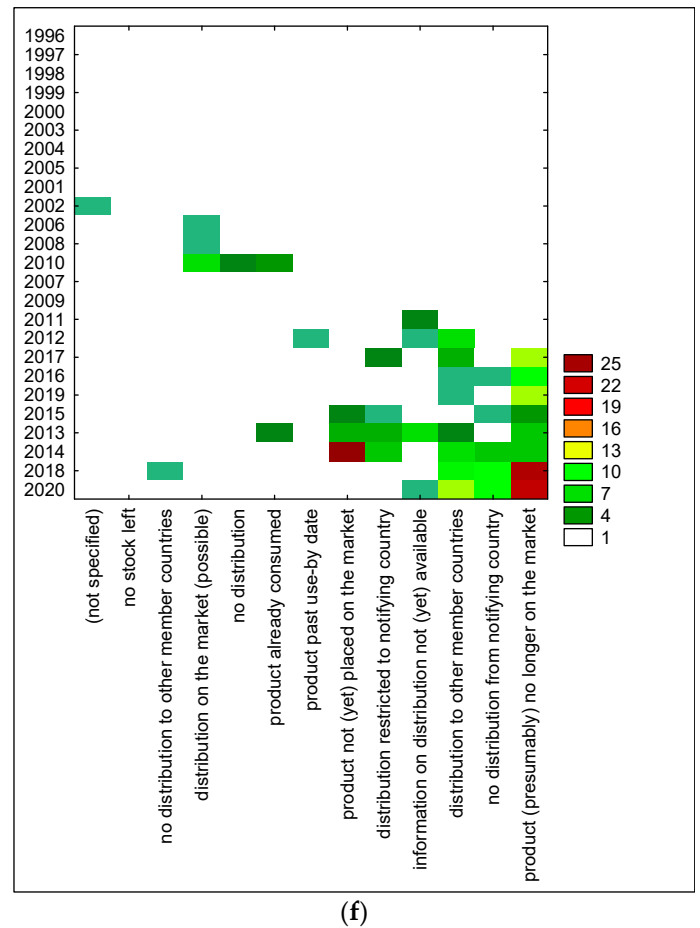
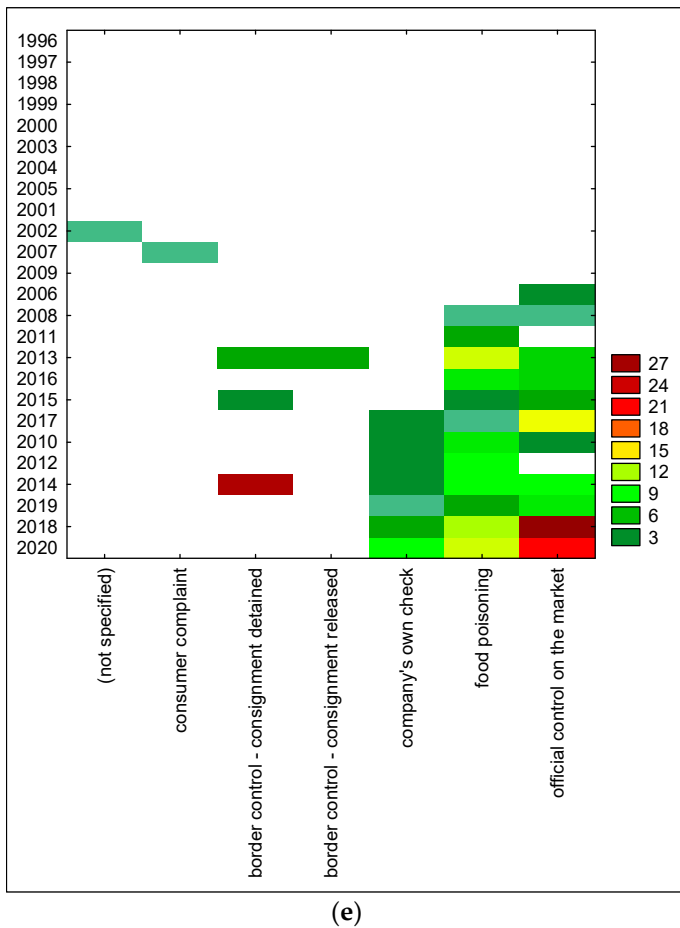
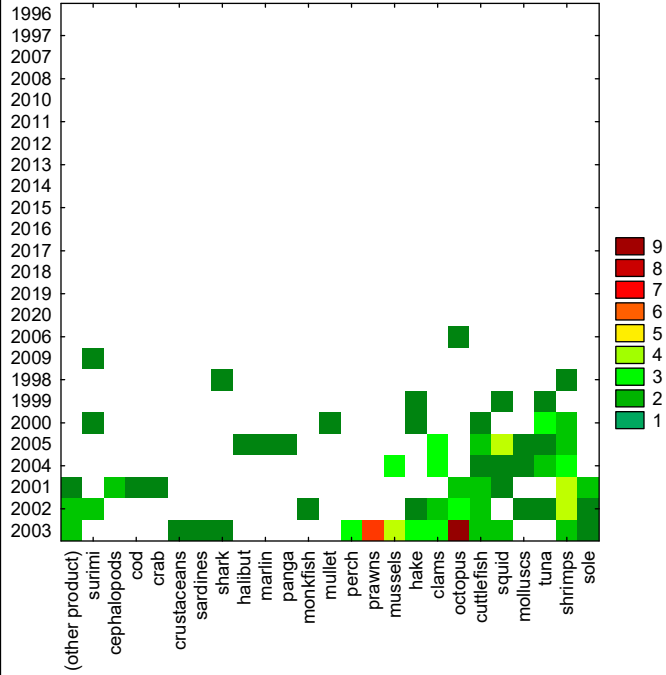
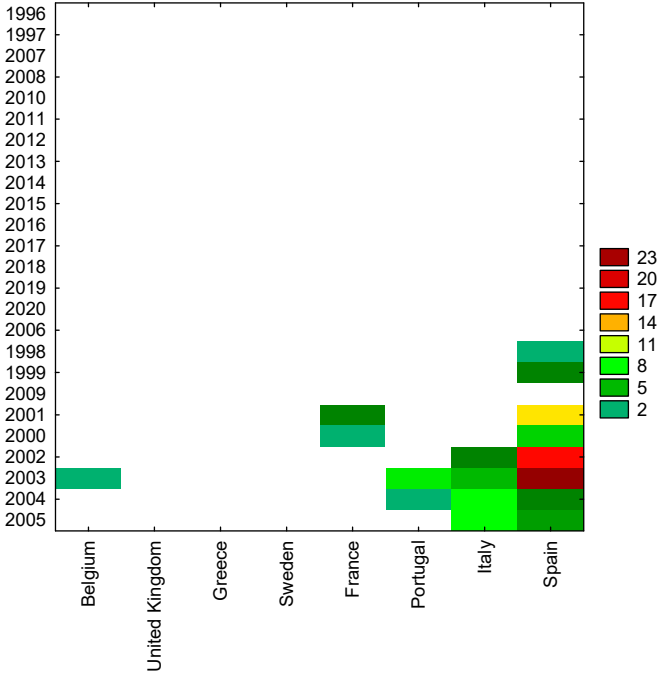


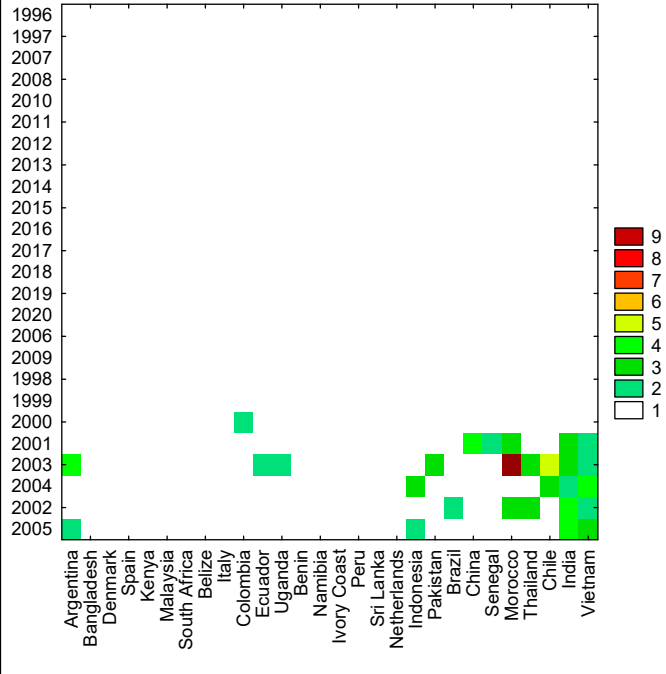
Figure S6. Results of two-way joining cluster analysis related to norovirus; (a) product; (b) notifying country; (c) country of origin; (d) notification type; (e) notification basis; (f) distribution status; (g) action taken.



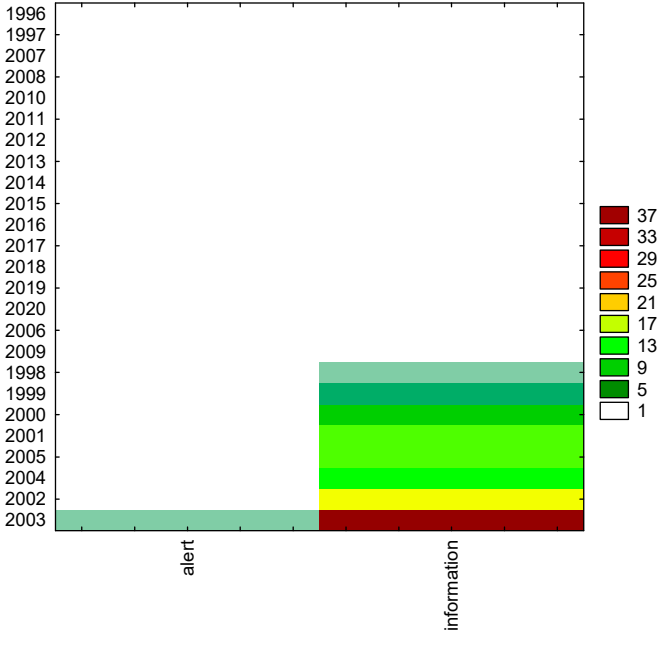
(a)



(b)



(c)



(d)

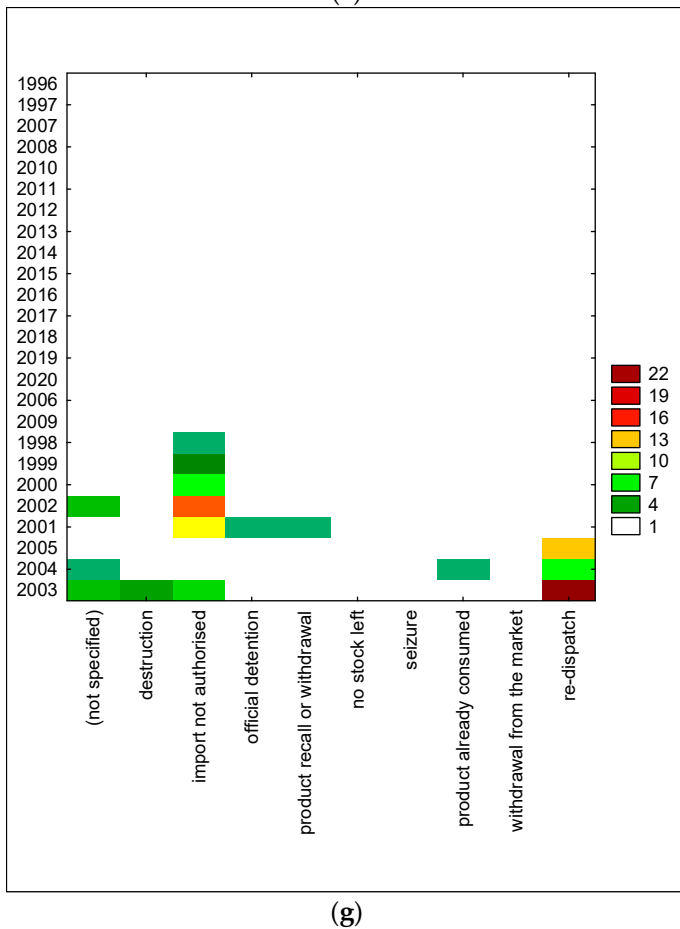
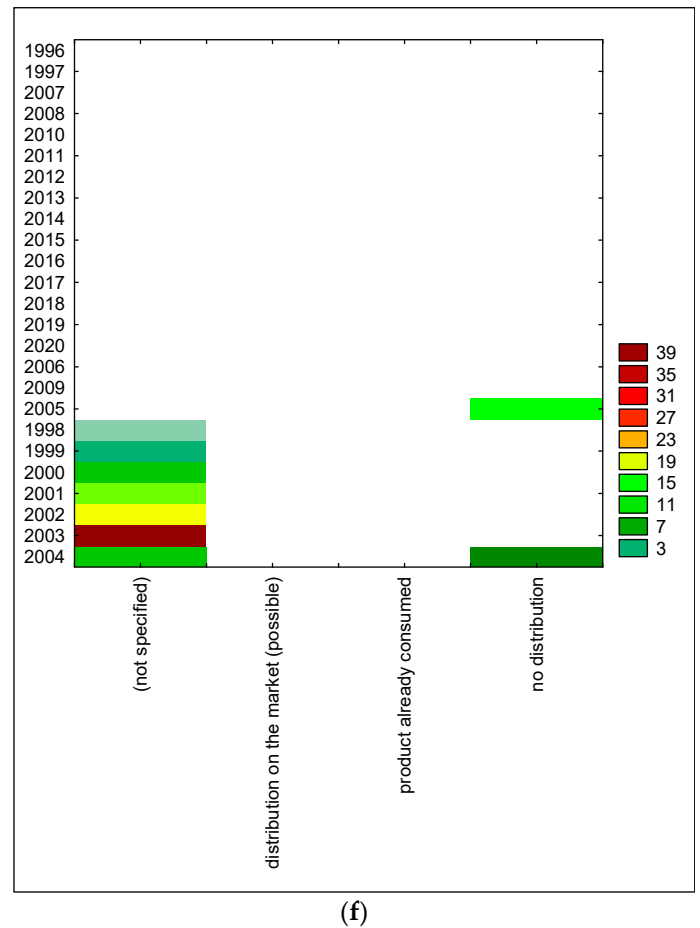
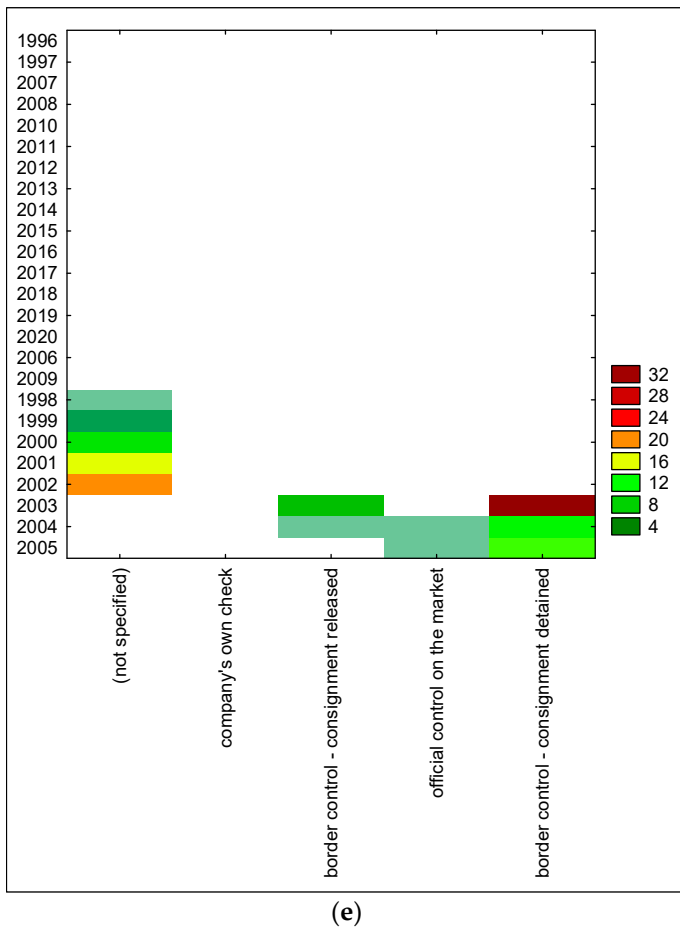
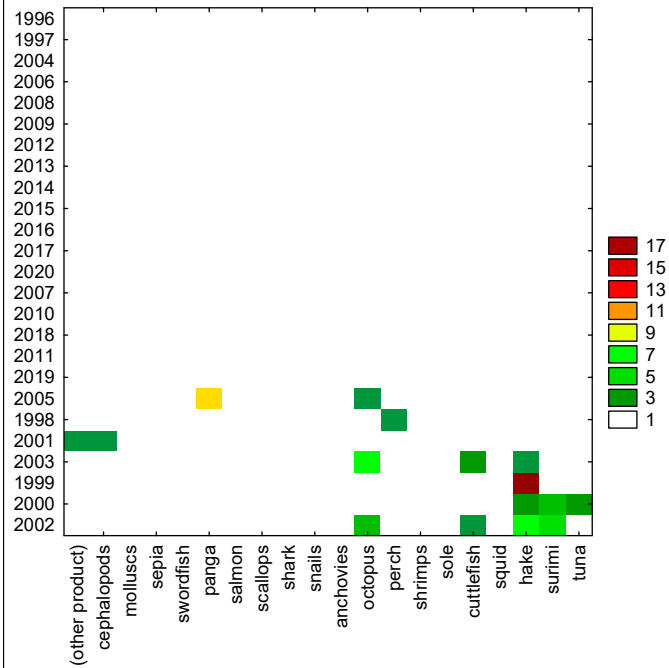
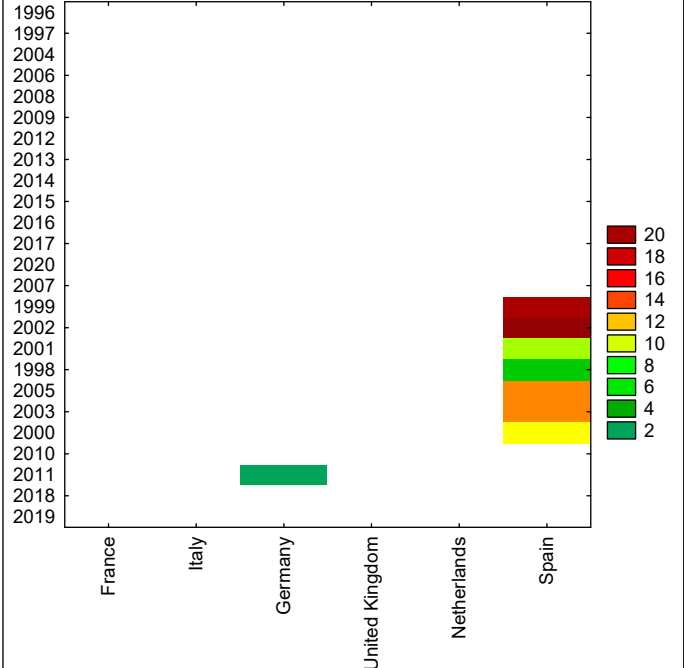


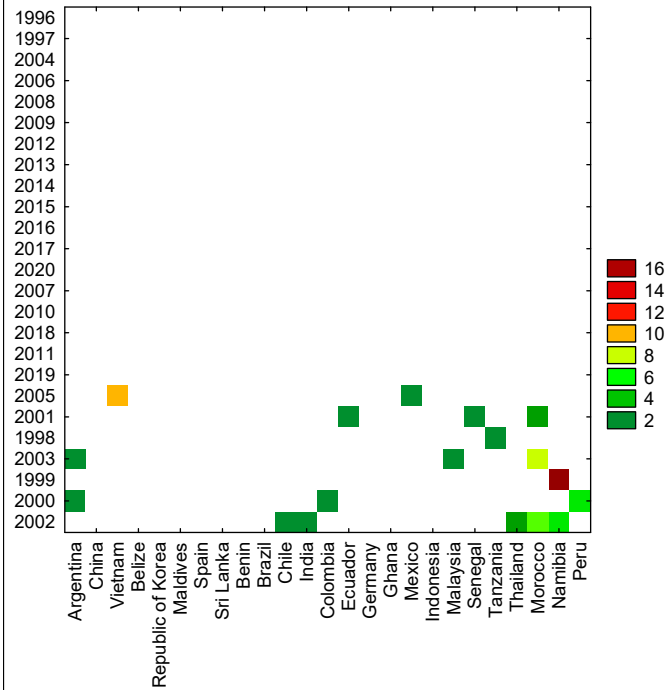
Figure S7. Results of two-way joining cluster analysis related to mesophiles; (a) product; (b) notifying country; (c) country of origin; (d) notification type; (e) notification basis; (f) distribution status; (g) action taken.



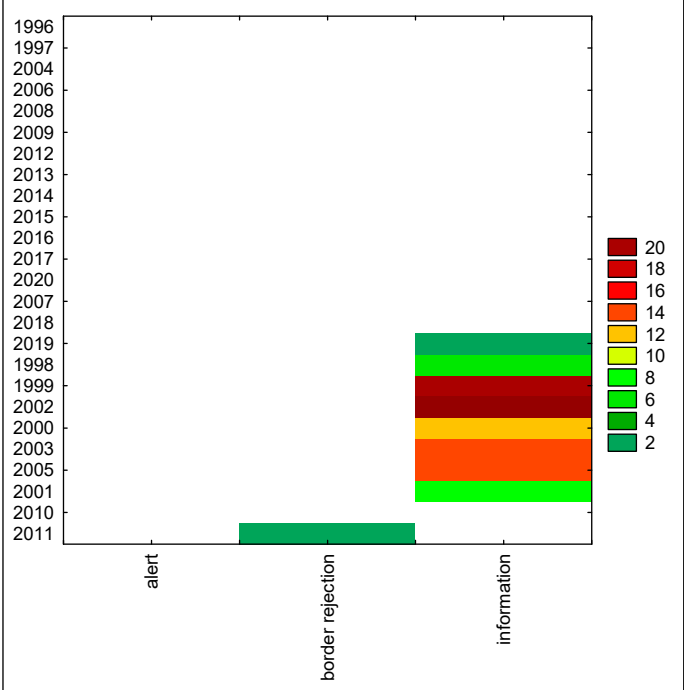
(a)



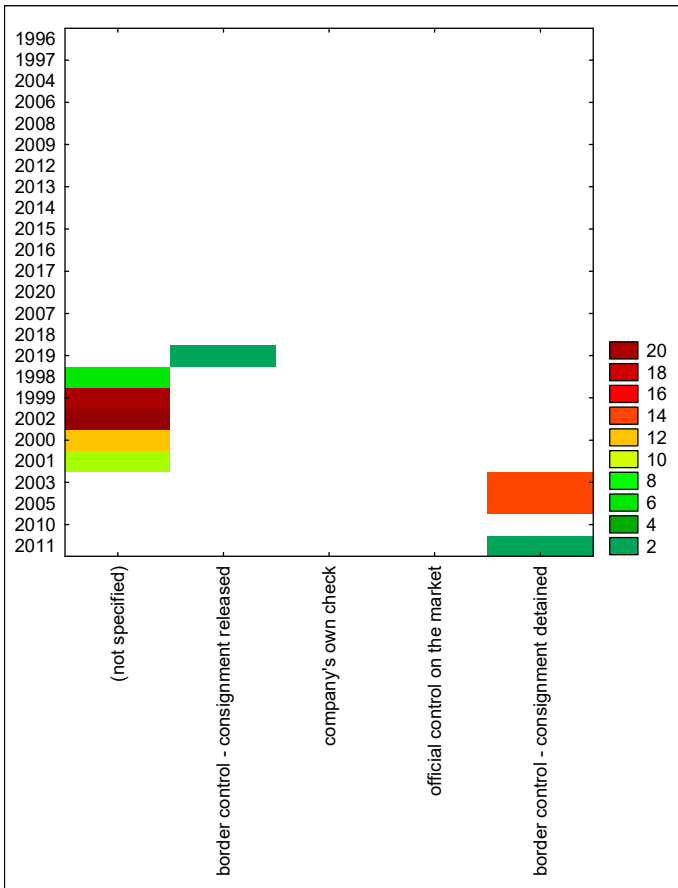
(b)



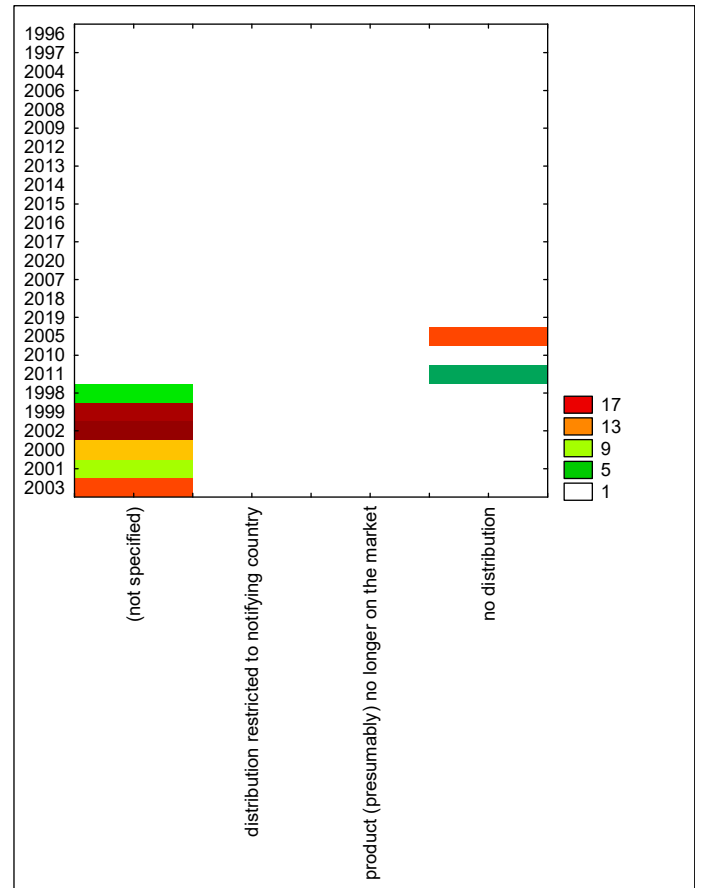
(c)



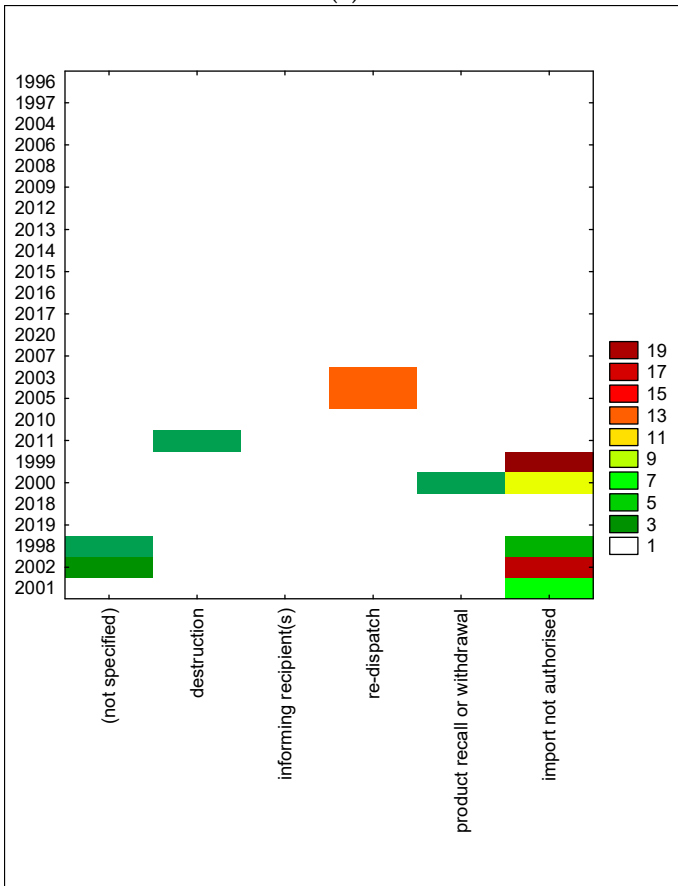
(d)



(e)

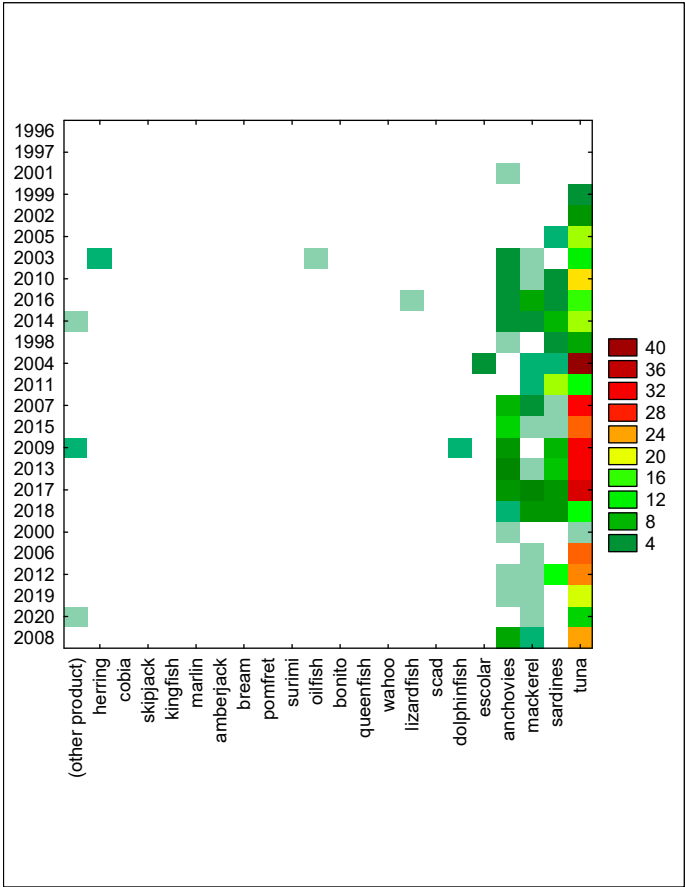


(f)

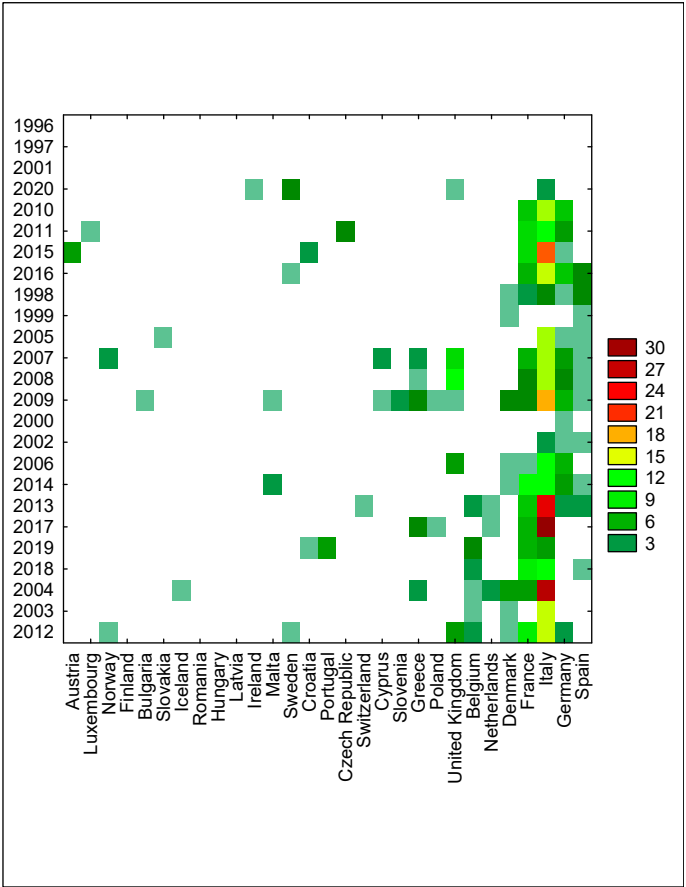


(g)

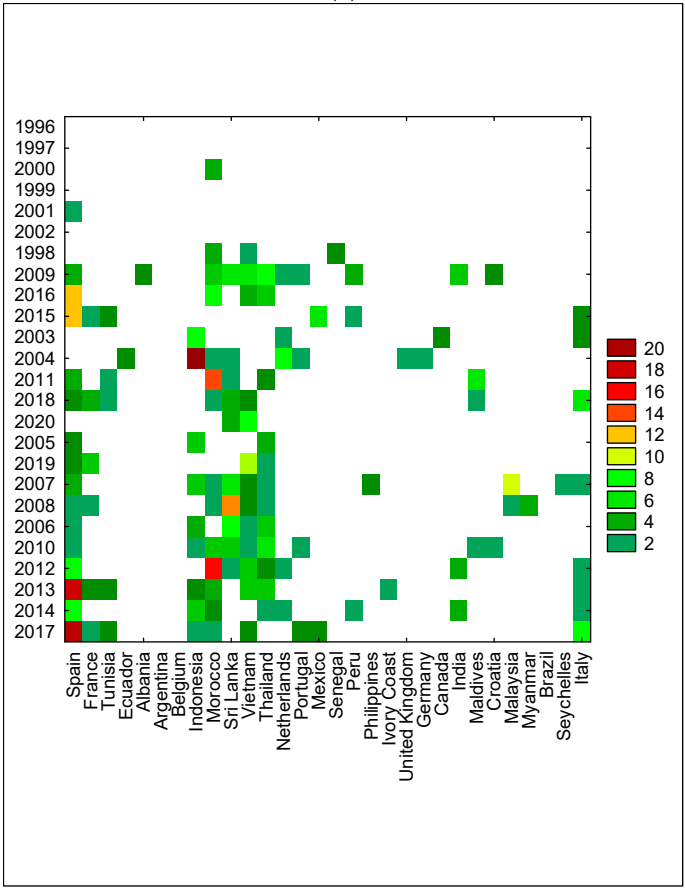
Figure S8. Results of two-way joining cluster analysis related to Enterobacteriaceae; (a) product; (b) notifying country; (c) country of origin; (d) notification type; (e) notification basis; (f) distribution status; (g) action taken.



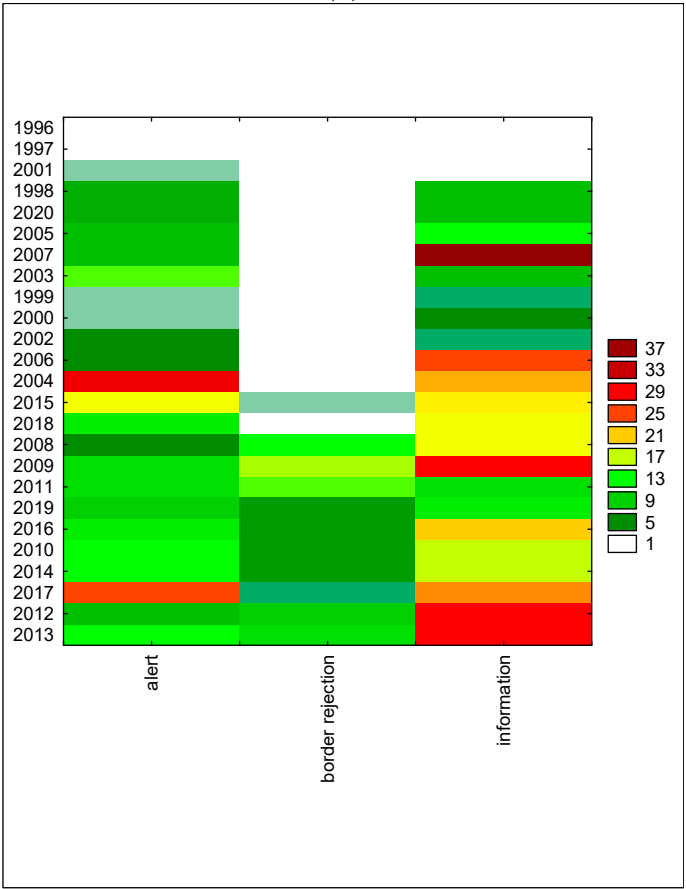
(a)



(b)



(c)



(d)

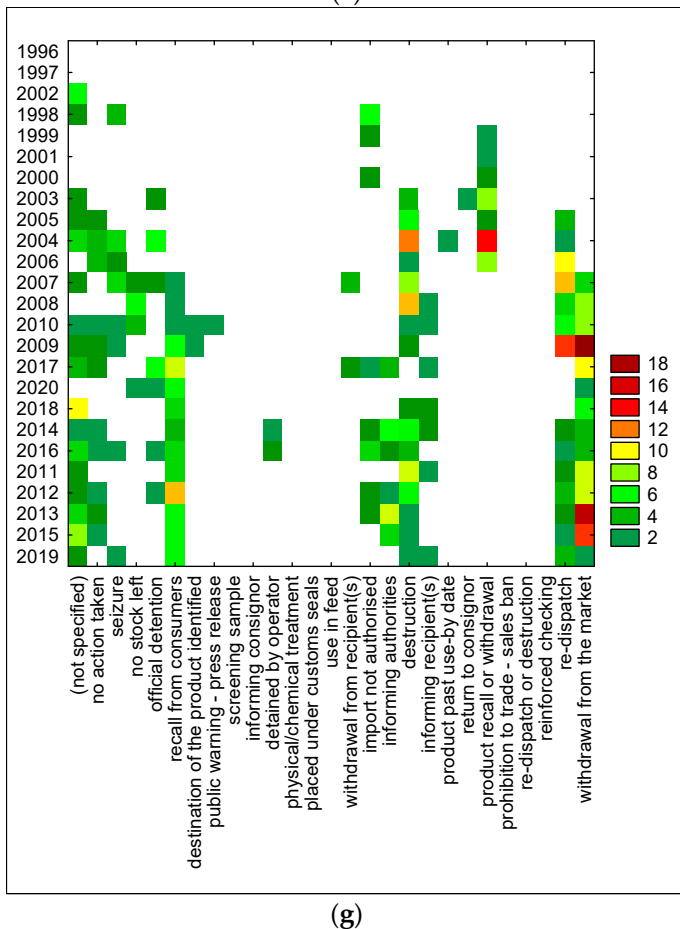
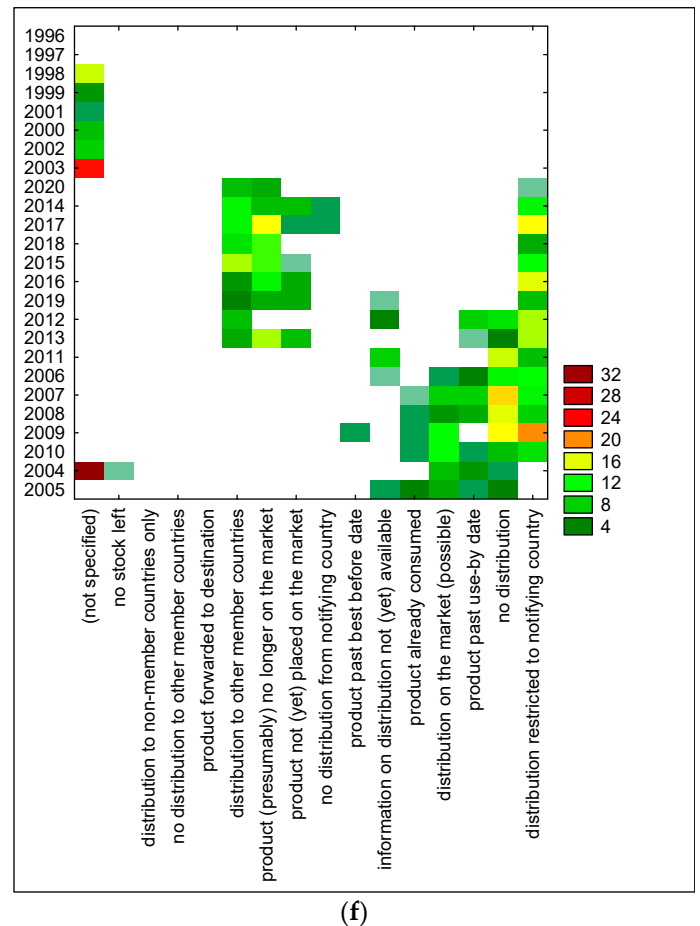
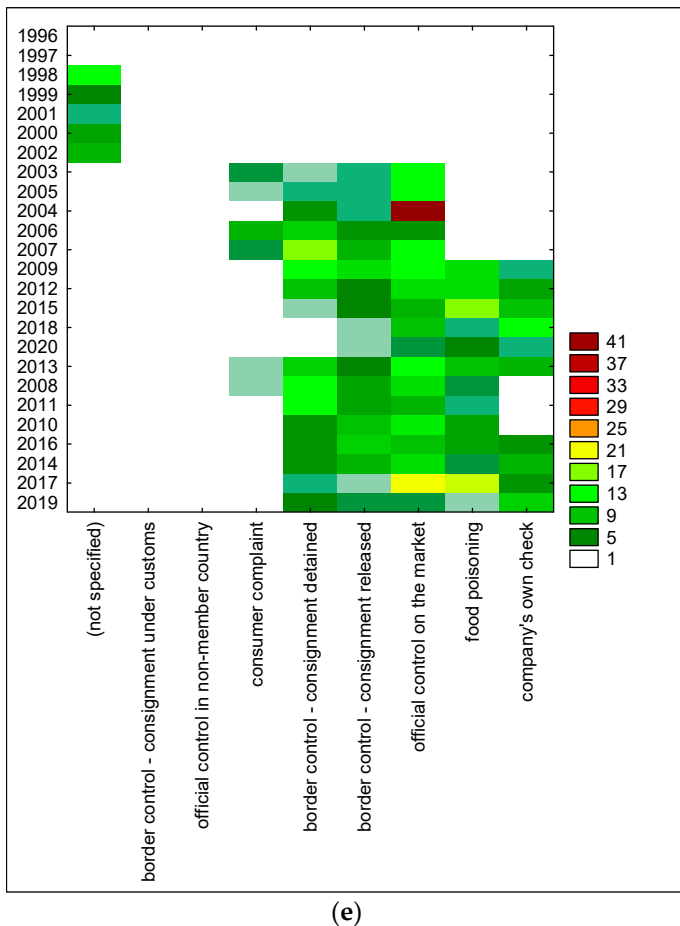
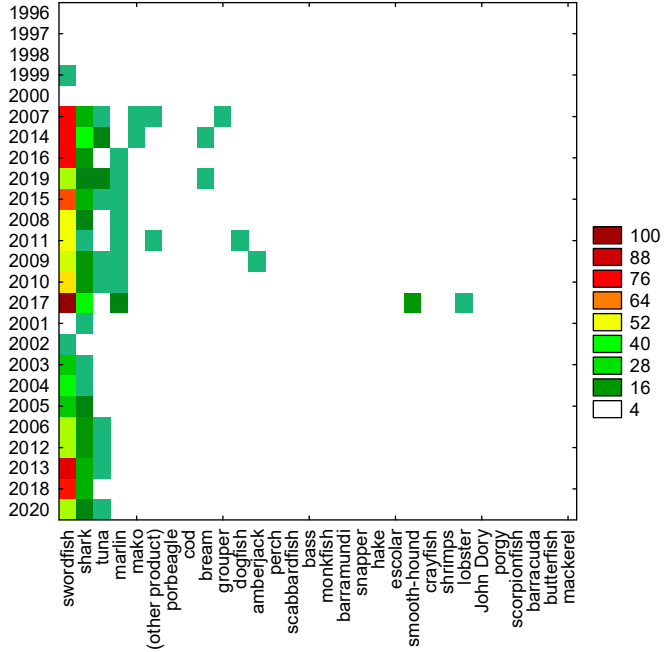
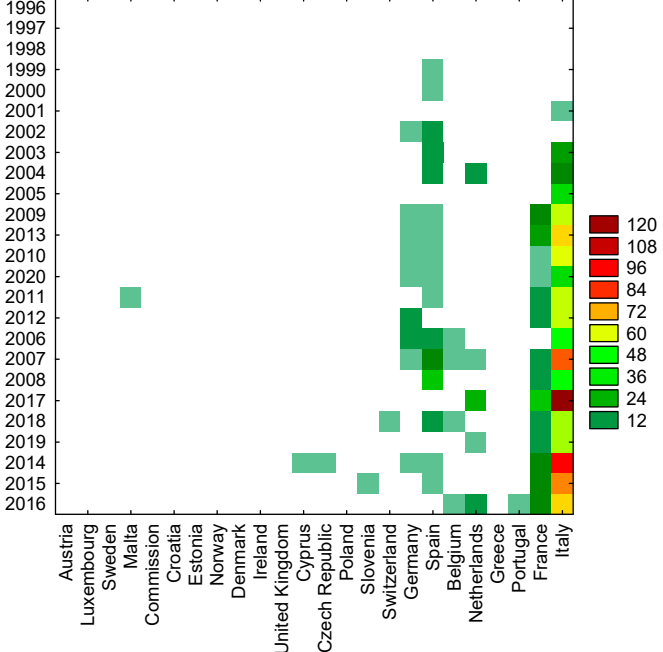


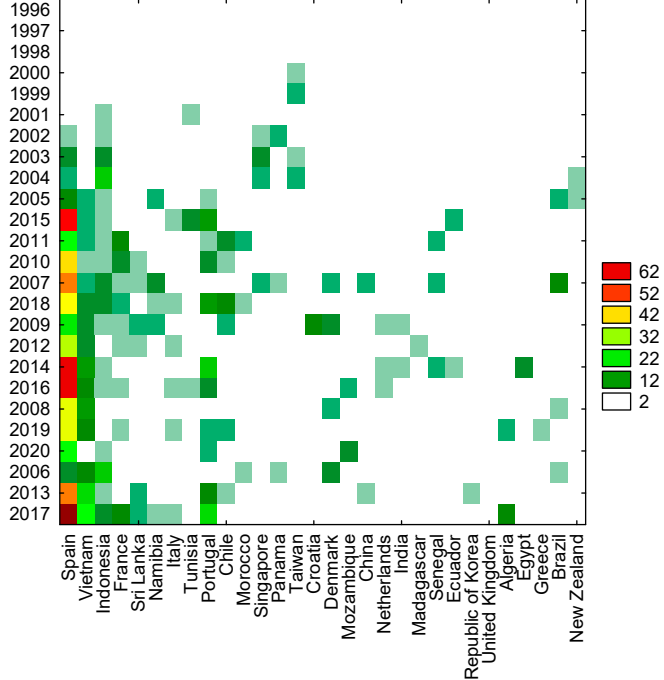
Figure S9. Results of two-way joining cluster analysis related to histamine; (a) product; (b) notifying country; (c) country of origin; (d) notification type; (e) notification basis; (f) distribution status; (g) action taken.



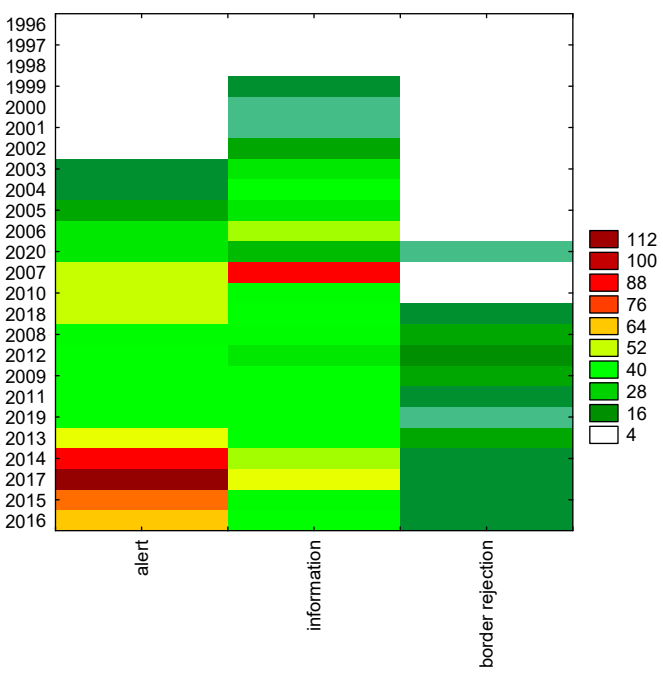
(a)



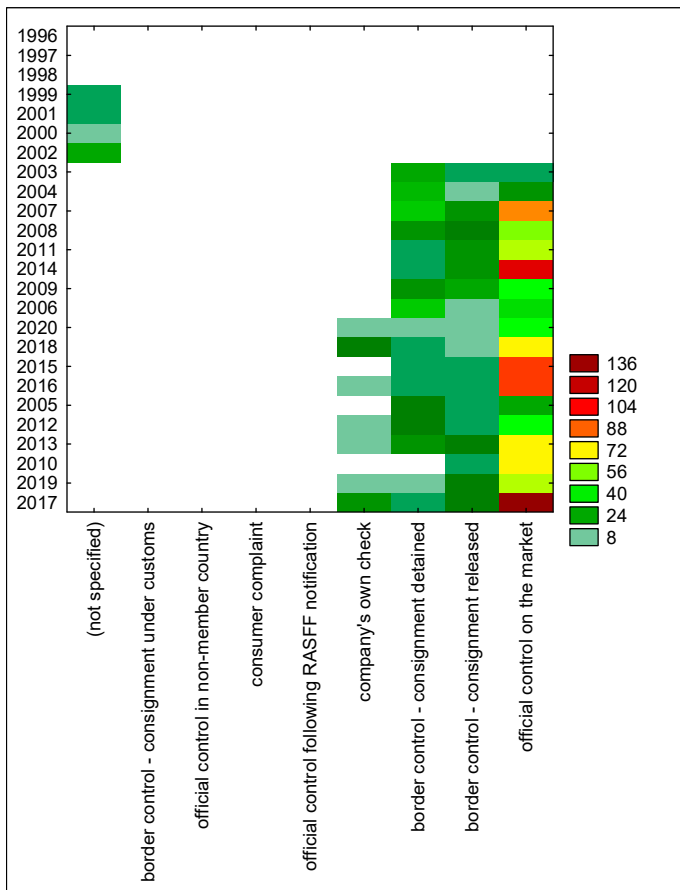
(b)



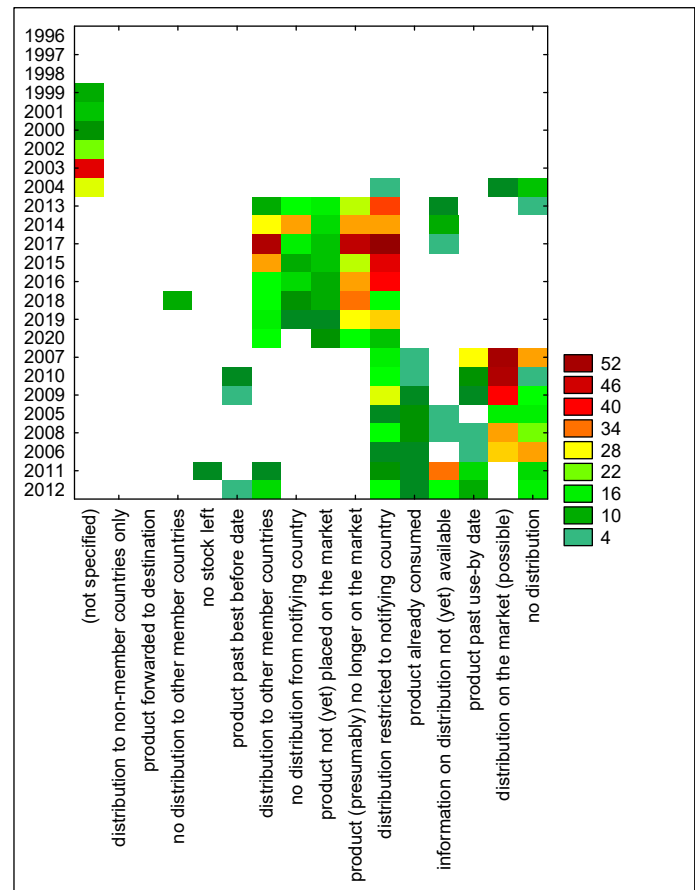
(c)



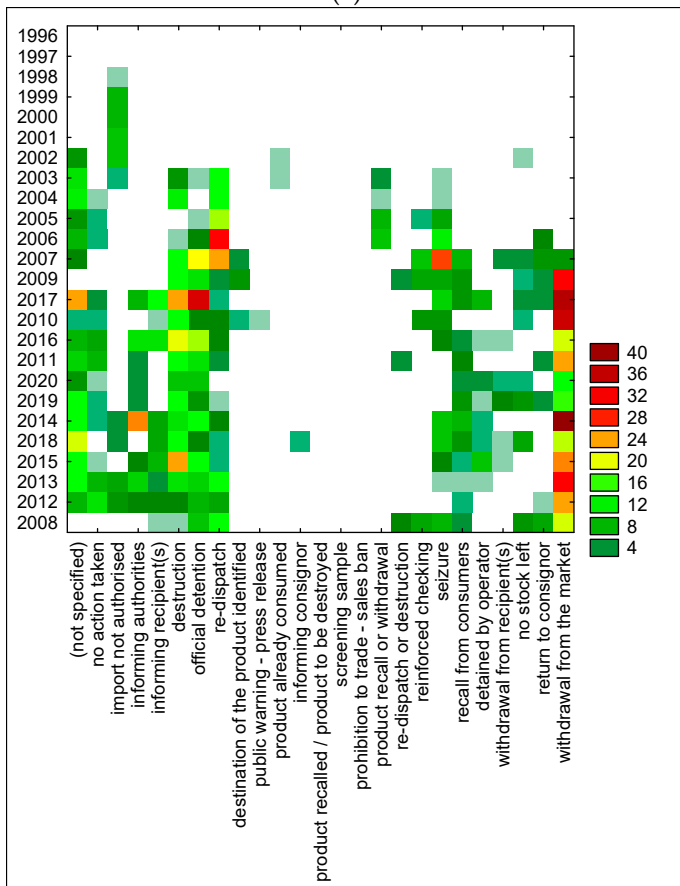
(d)



(e)

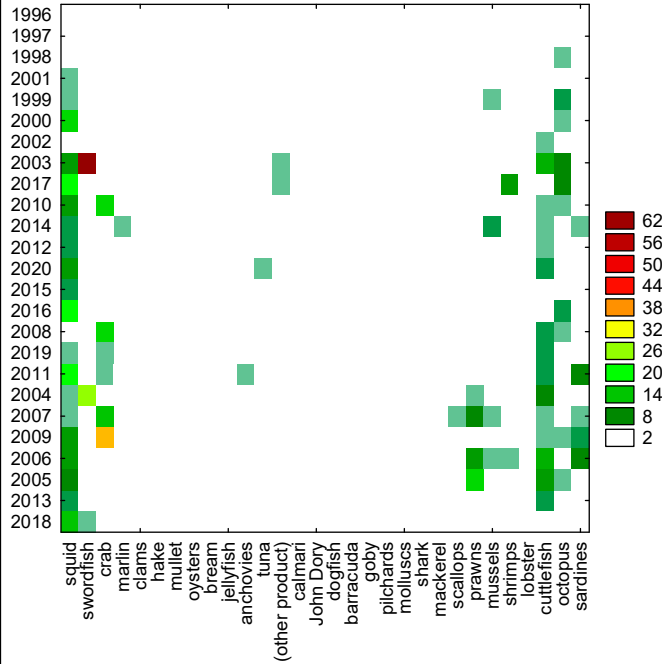


(f)

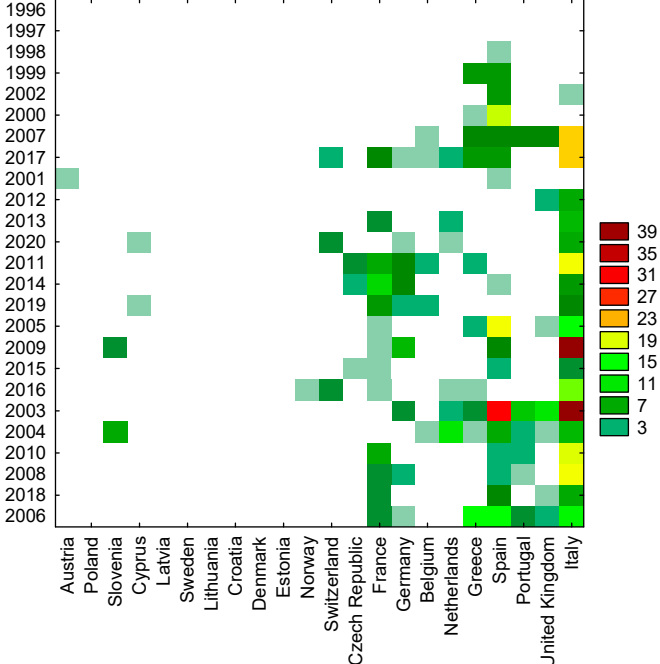


(g)

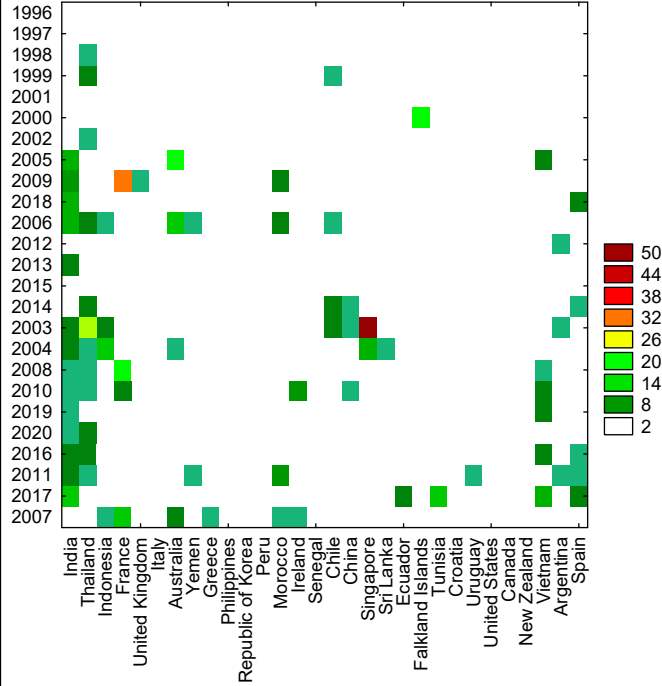
Figure S10. Results of two-way joining cluster analysis related to mercury; (a) product; (b) notifying country; (c) country of origin; (d) notification type; (e) notification basis; (f) distribution status; (g) action taken.



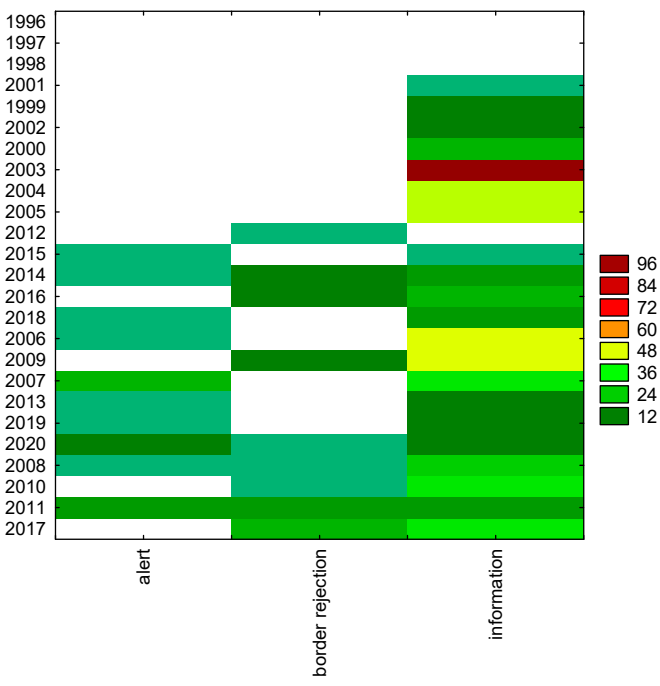
(a)



(b)



(c)



(d)

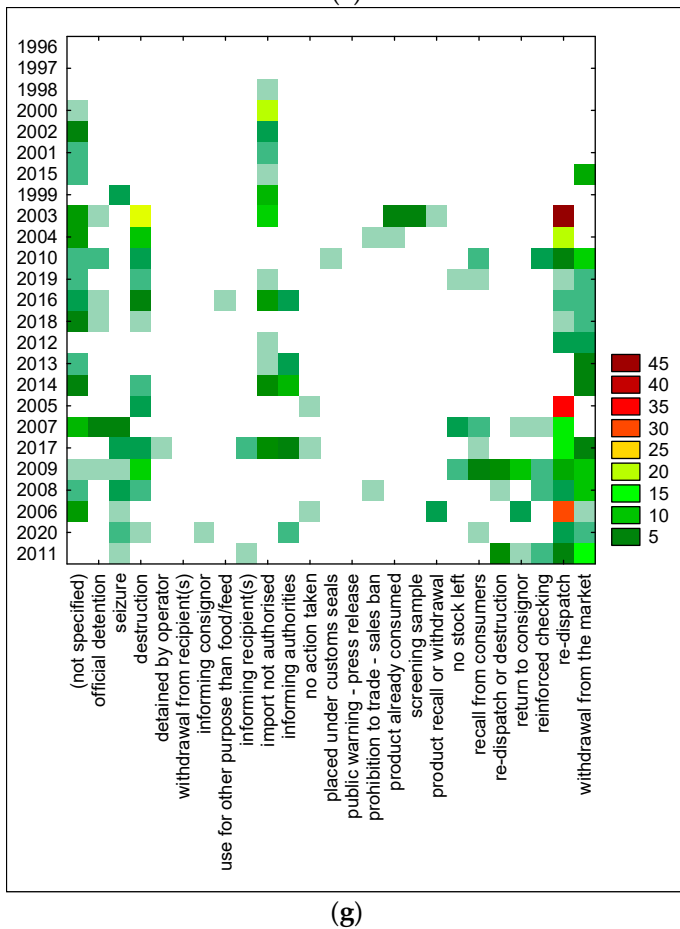
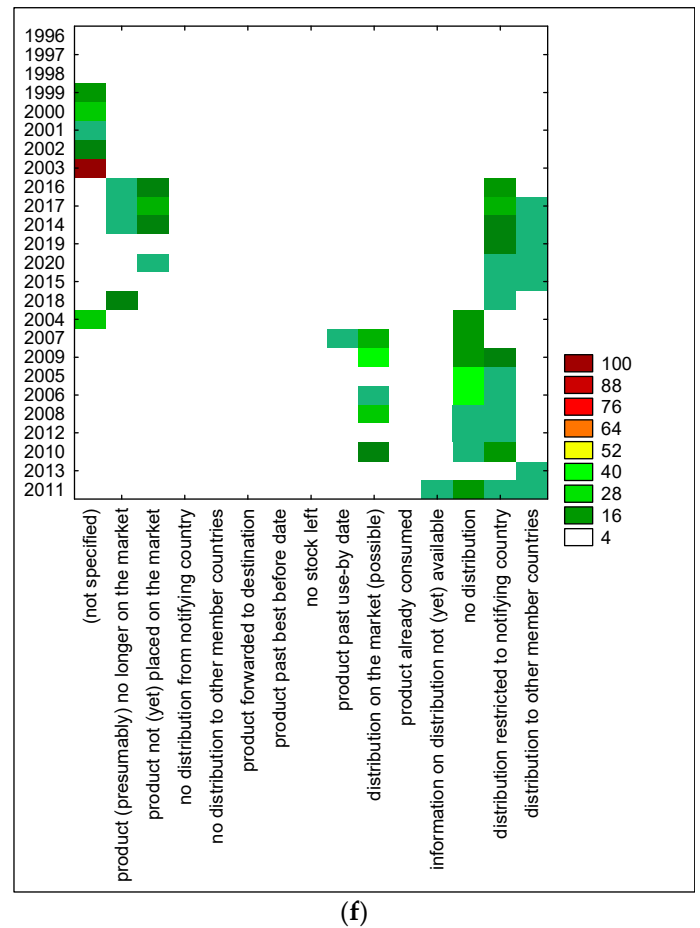
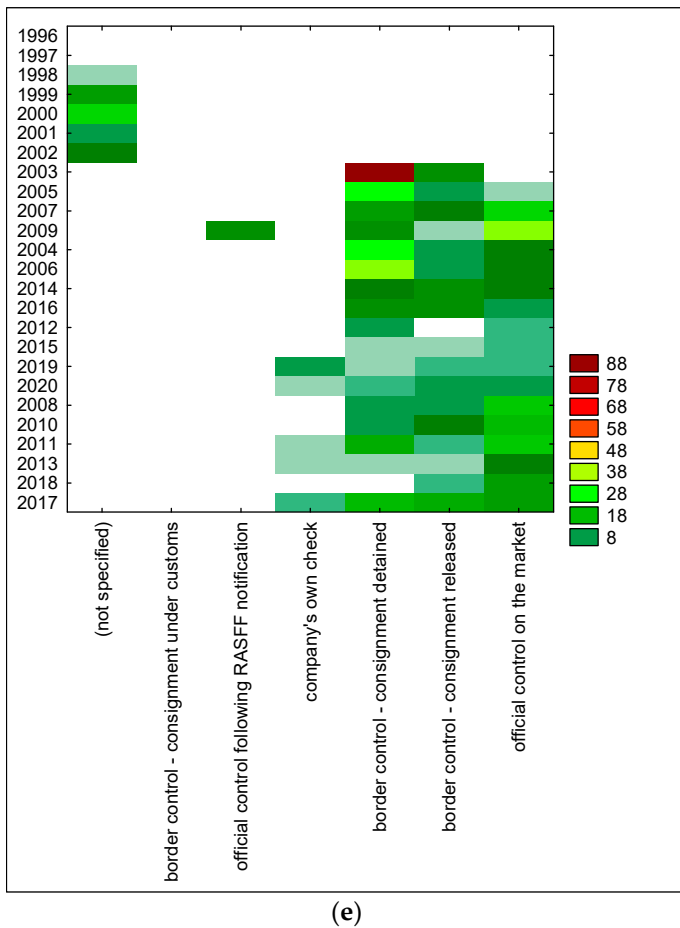
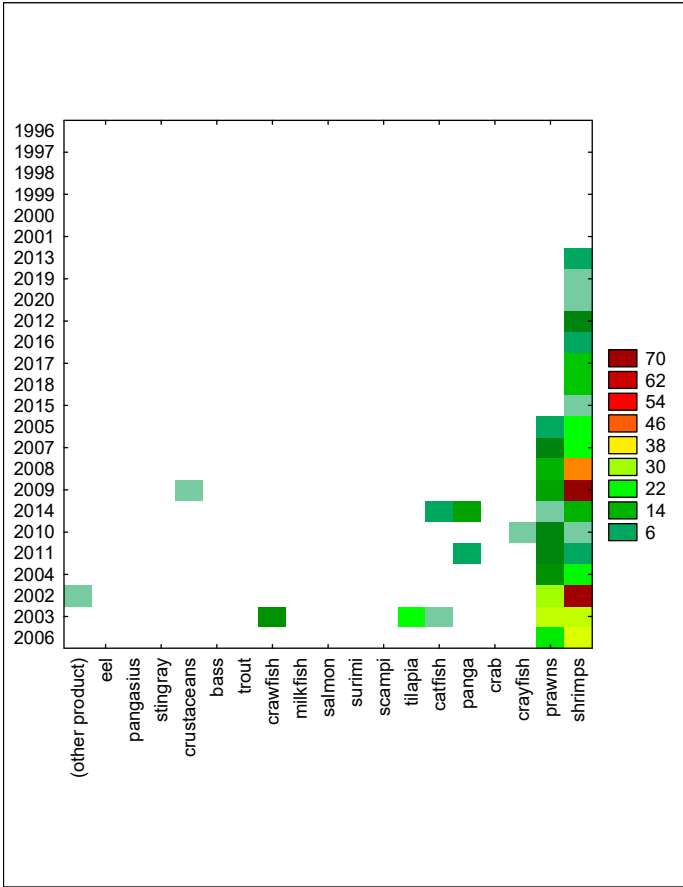
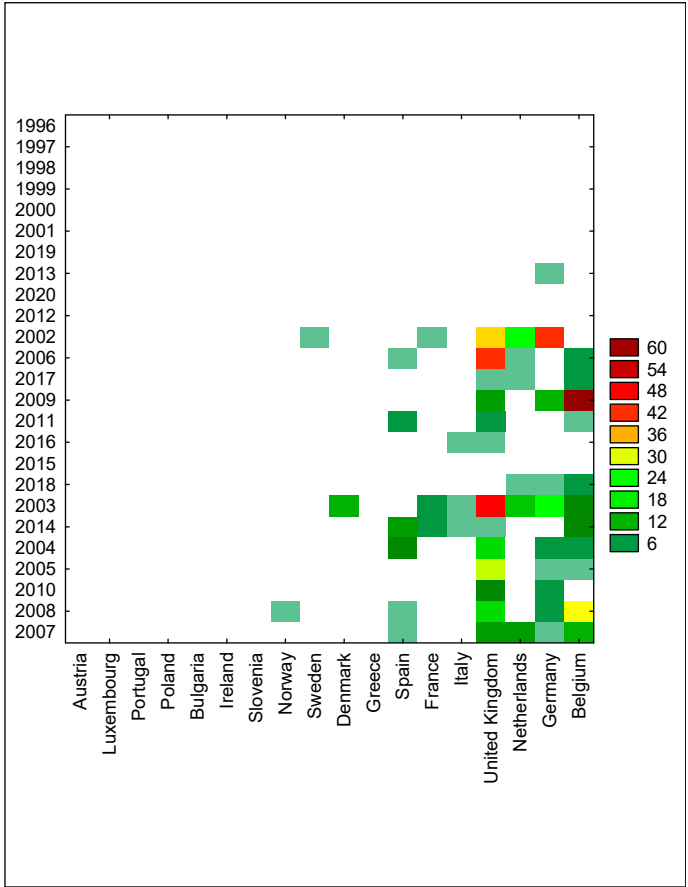


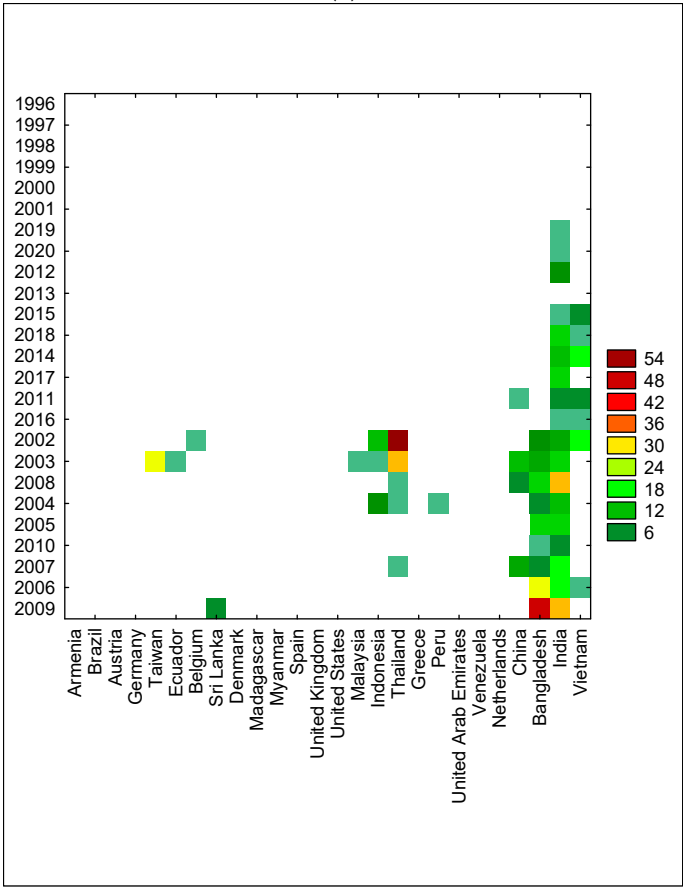
Figure S11. Results of two-way joining cluster analysis related to cadmium; (a) product; (b) notifying country; (c) country of origin; (d) notification type; (e) notification basis; (f) distribution status; (g) action taken.



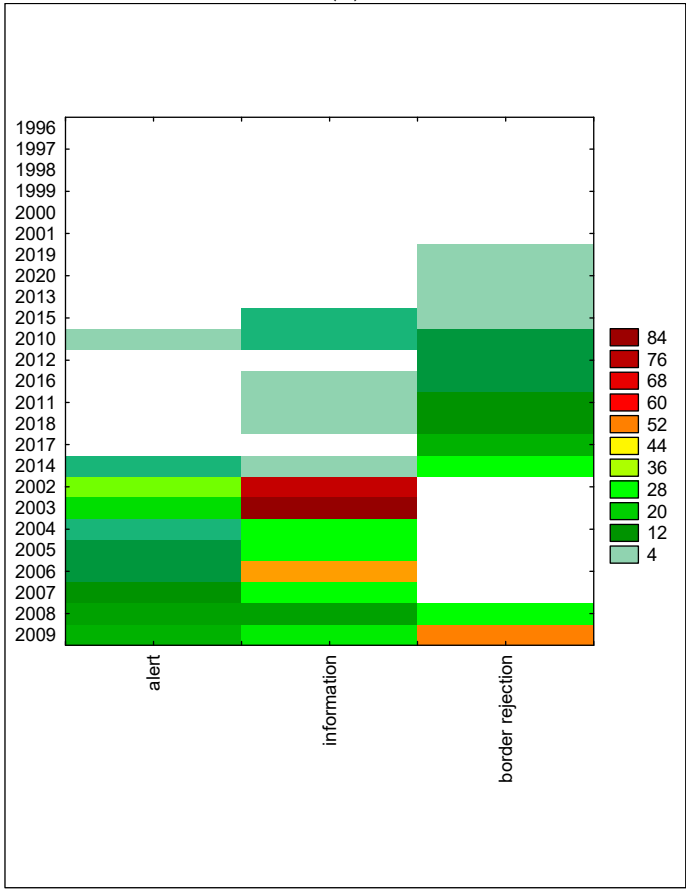
(a)



(b)



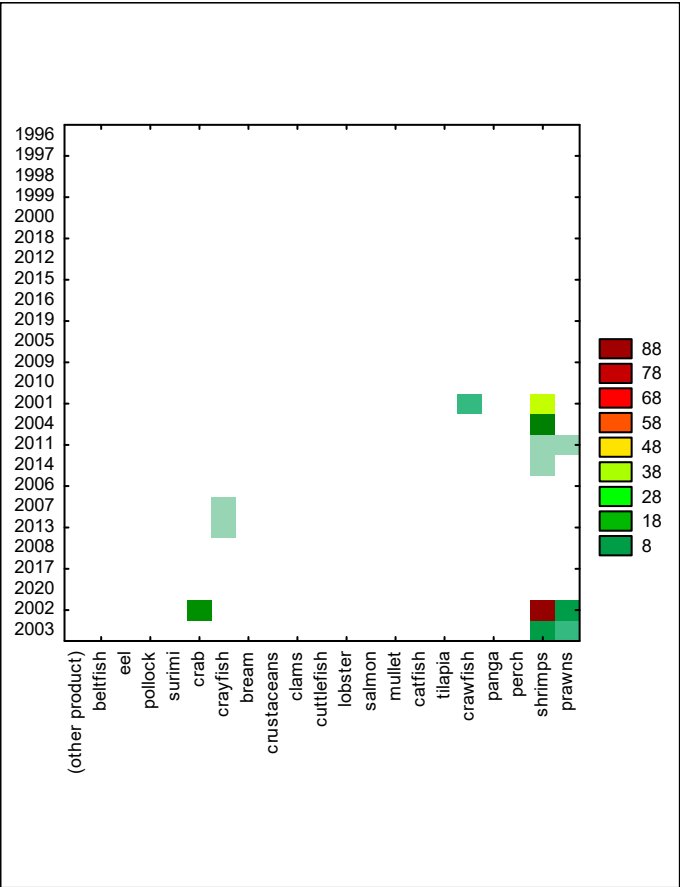
(c)



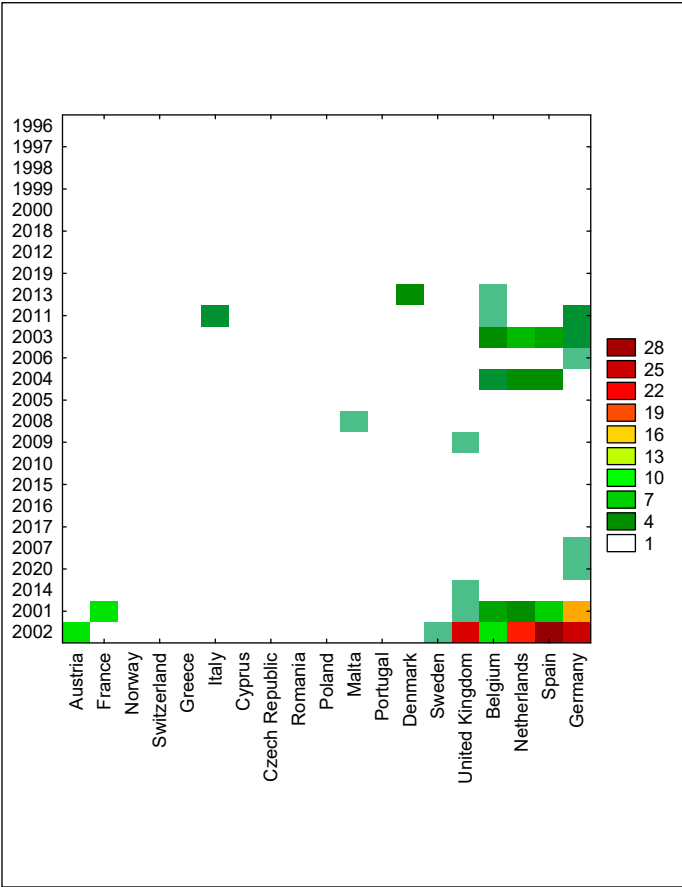
(d)

[illegible][illegible]

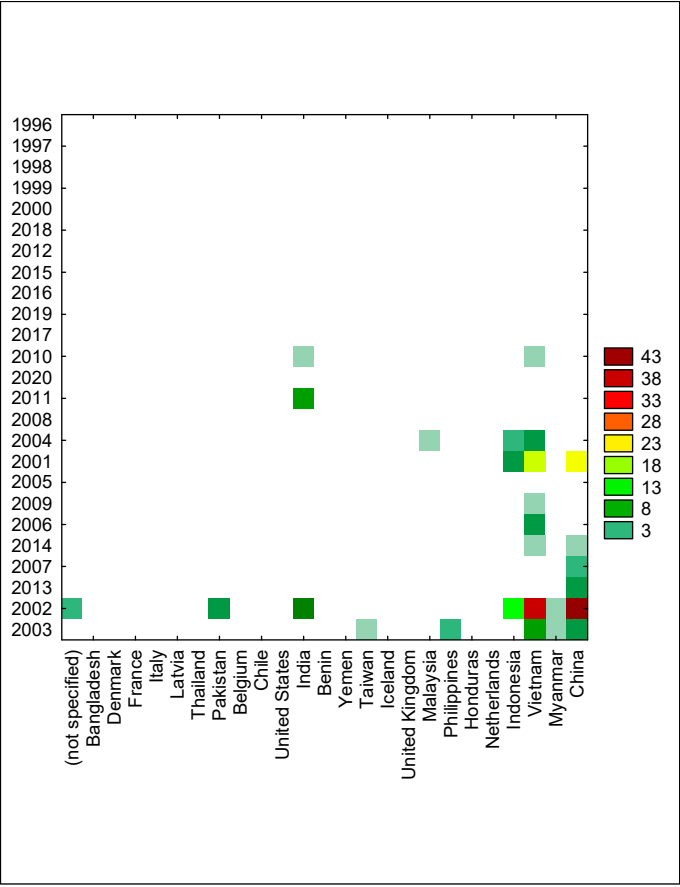
Figure S12. Results of two-way joining cluster analysis related to nitrofurantoin (metabolite); (a) product; (b) notifying country; (c) country of origin; (d) notification type; (e) notification basis; (f) distribution status; (g) action taken.



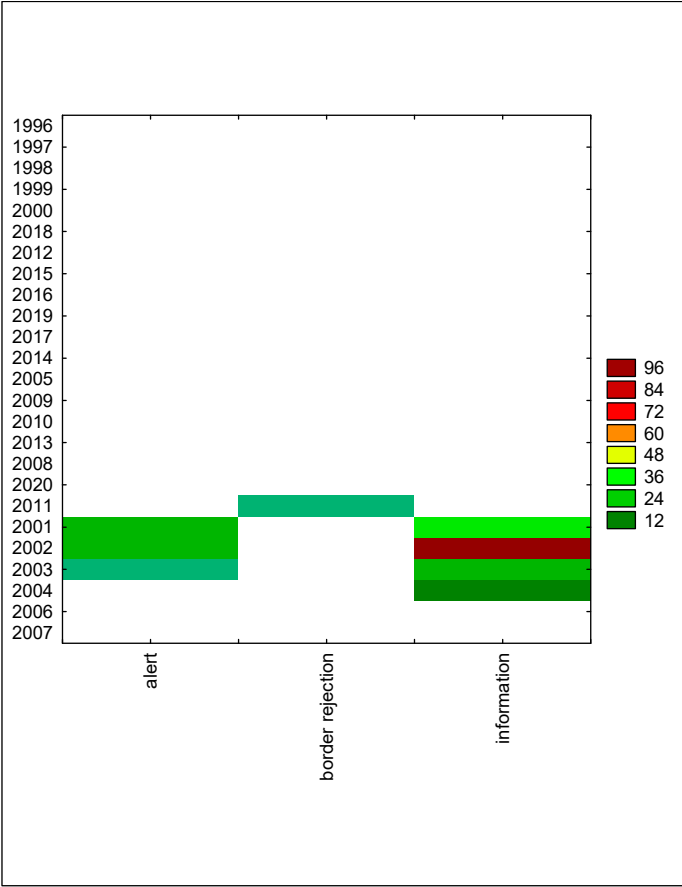
(a)



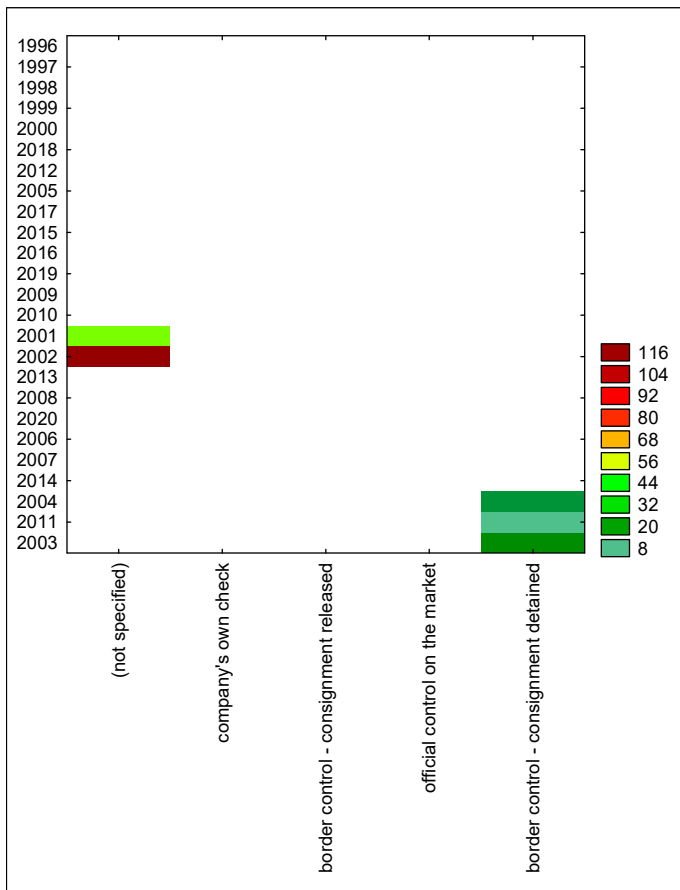
(b)



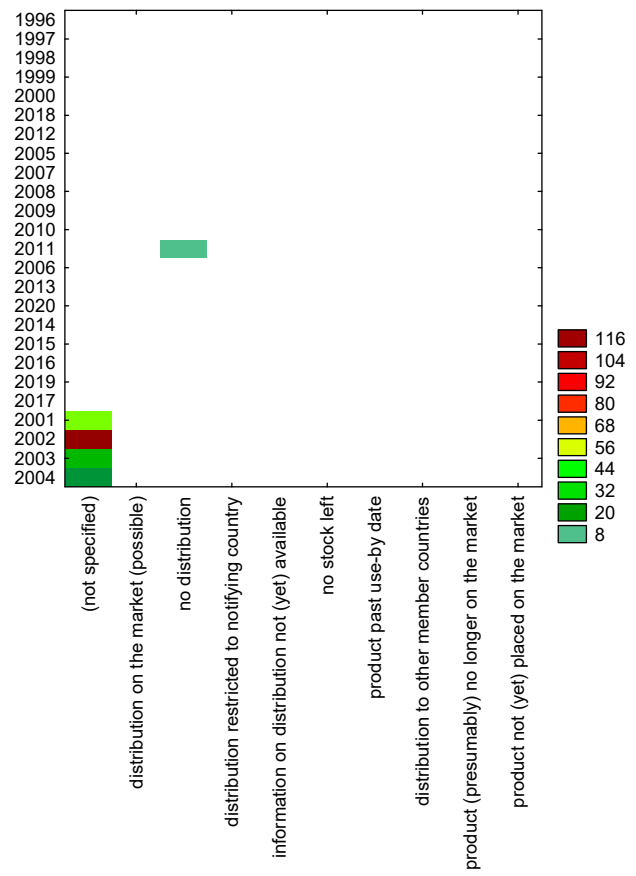
(c)



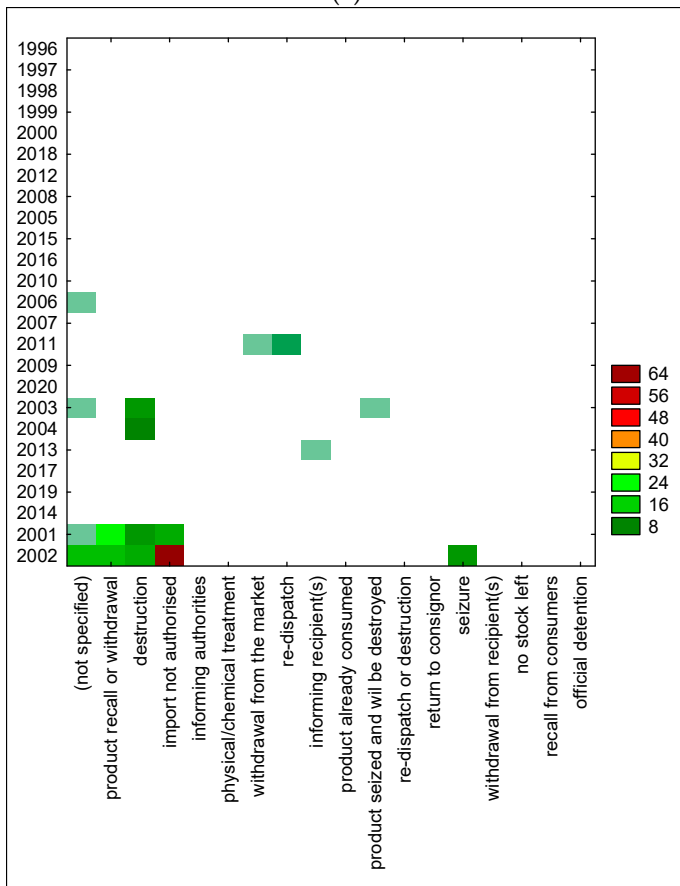
(d)



(e)

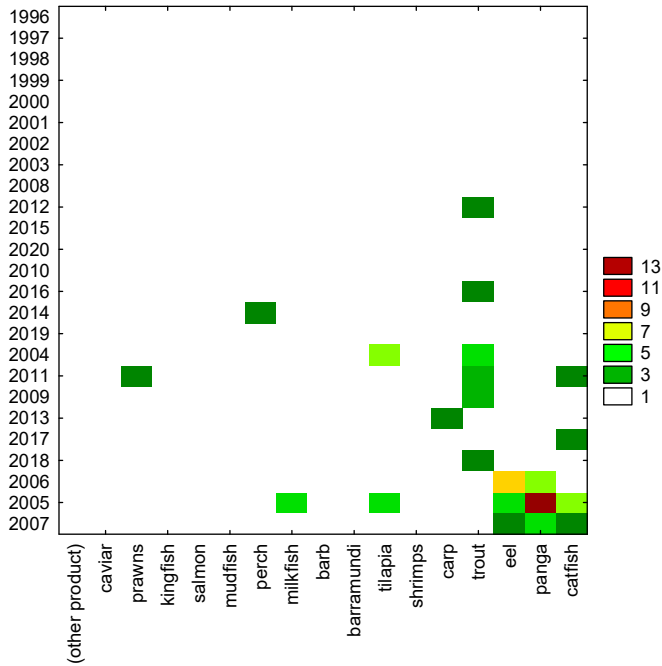


(f)

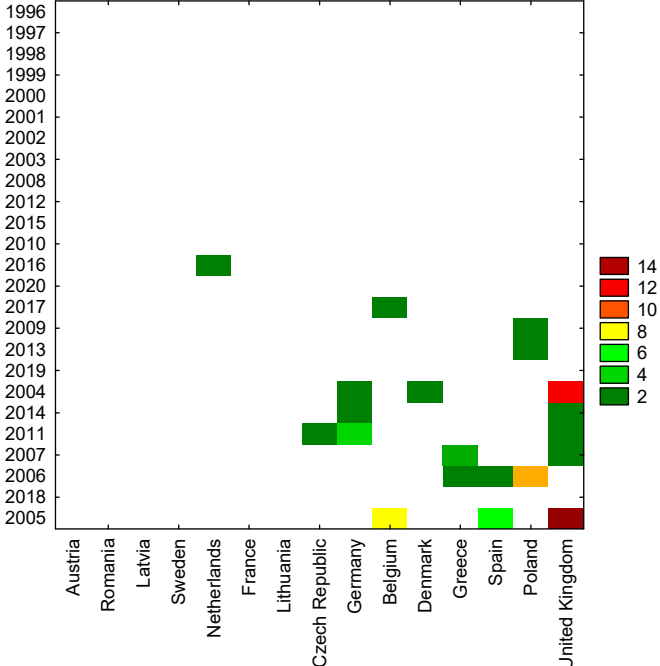


(g)

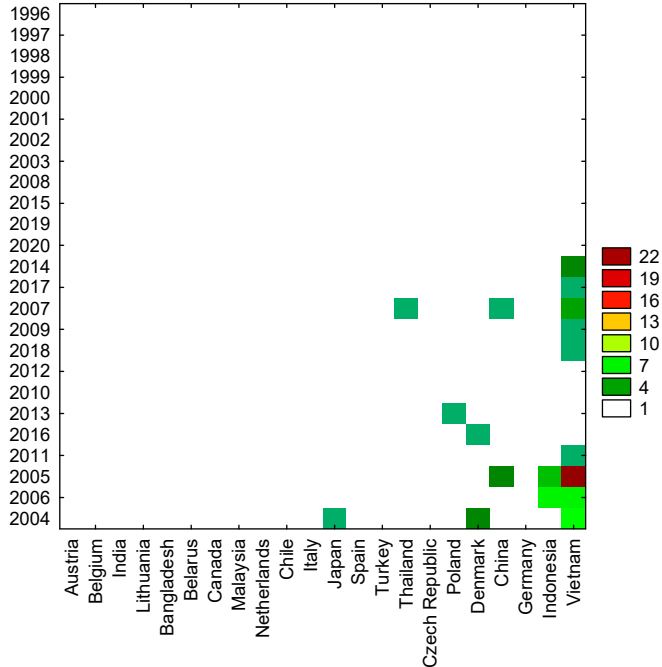
Figure S13. Results of two-way joining cluster analysis related to chloramphenicol; (a) product; (b) notifying country; (c) country of origin; (d) notification type; (e) notification basis; (f) distribution status; (g) action taken.



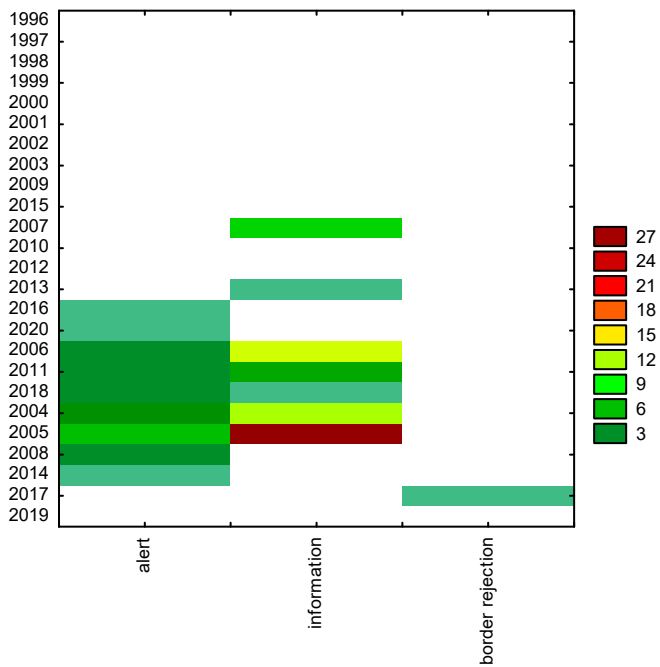
(a)



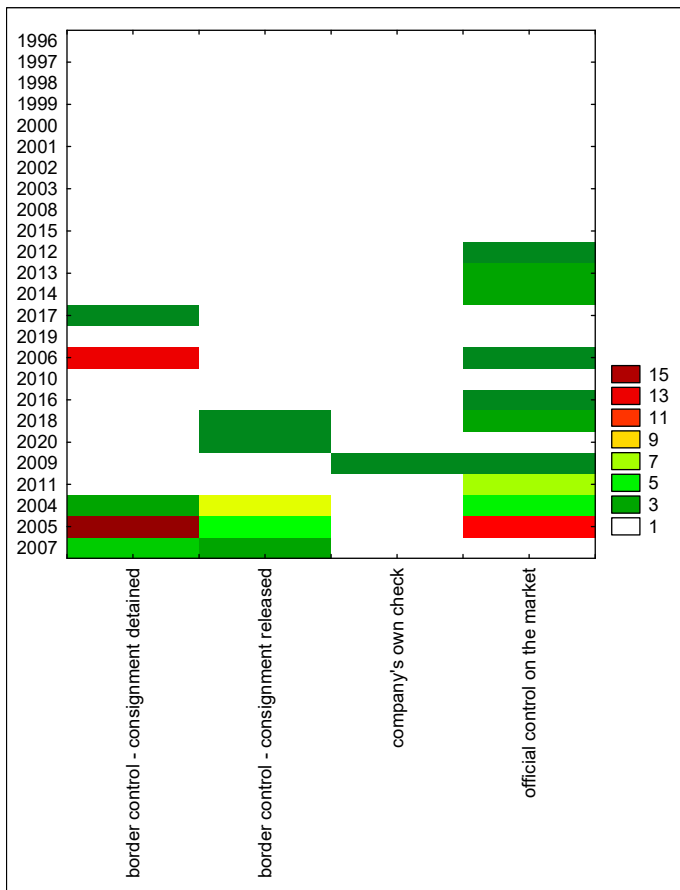
(b)



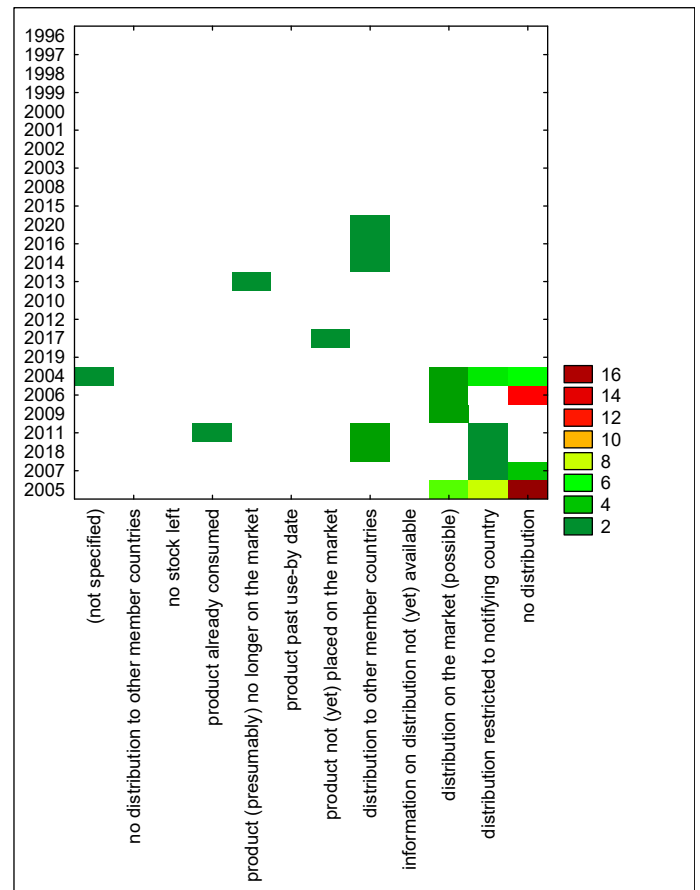
(c)



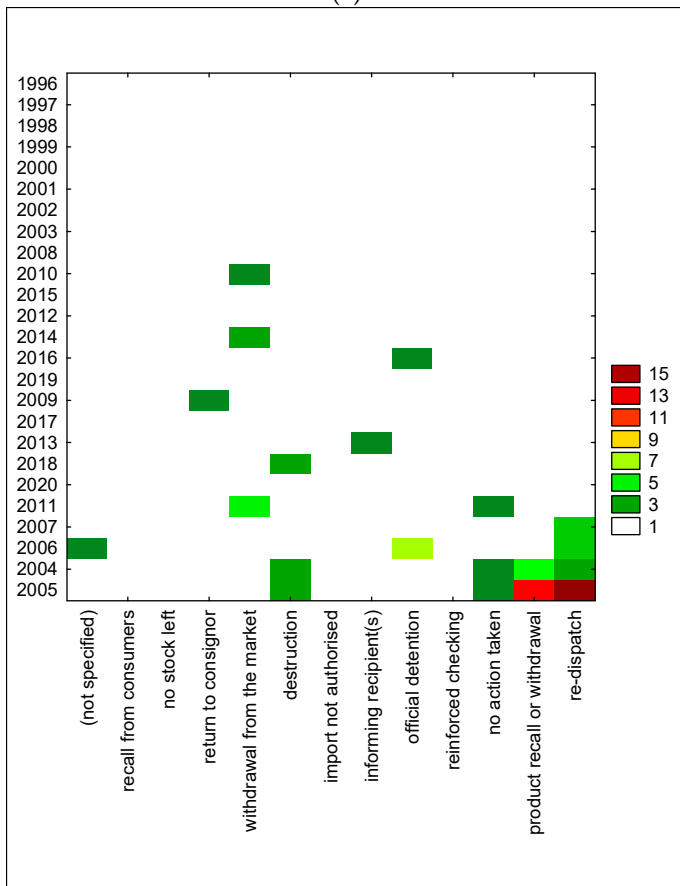
(d)



(e)

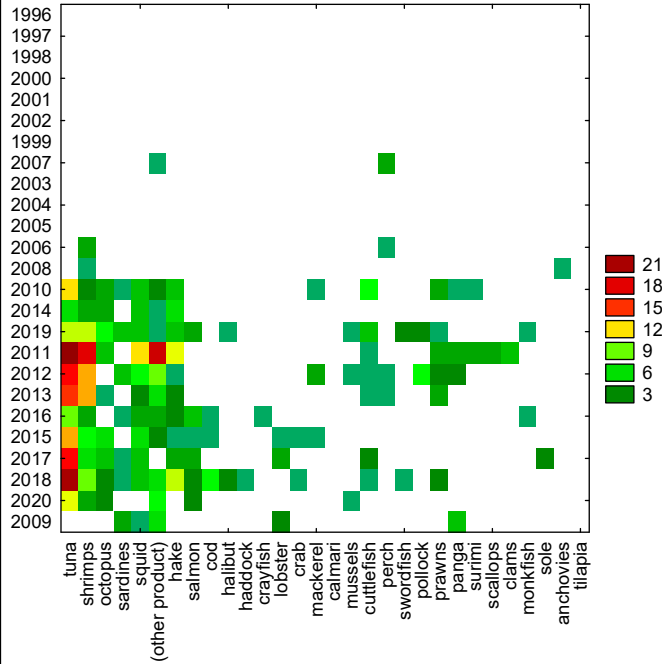


(f)

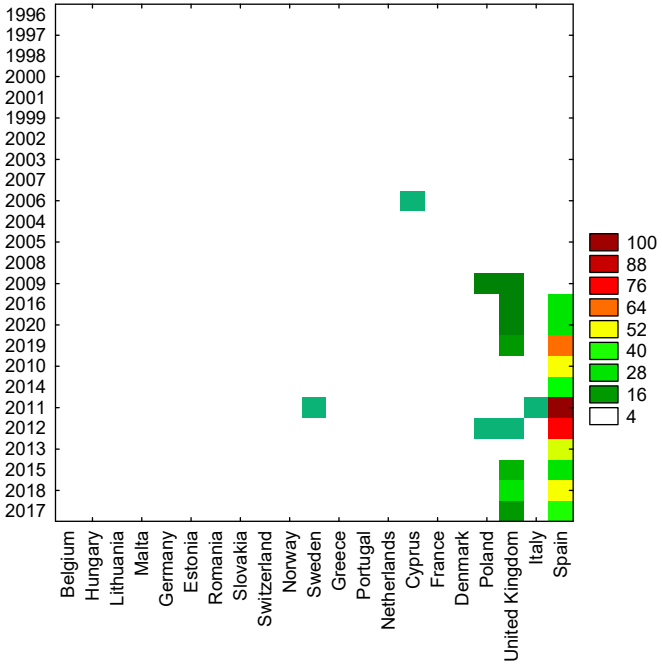


(g)

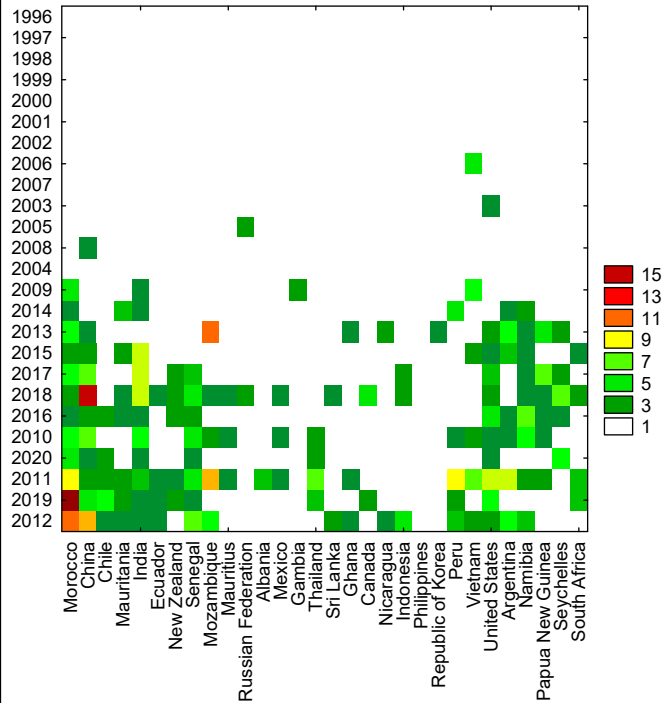
Figure S14. Results of two-way joining cluster analysis related to leucomalachite green; (a) product; (b) notifying country; (c) country of origin; (d) notification type; (e) notification basis; (f) distribution status; (g) action taken.



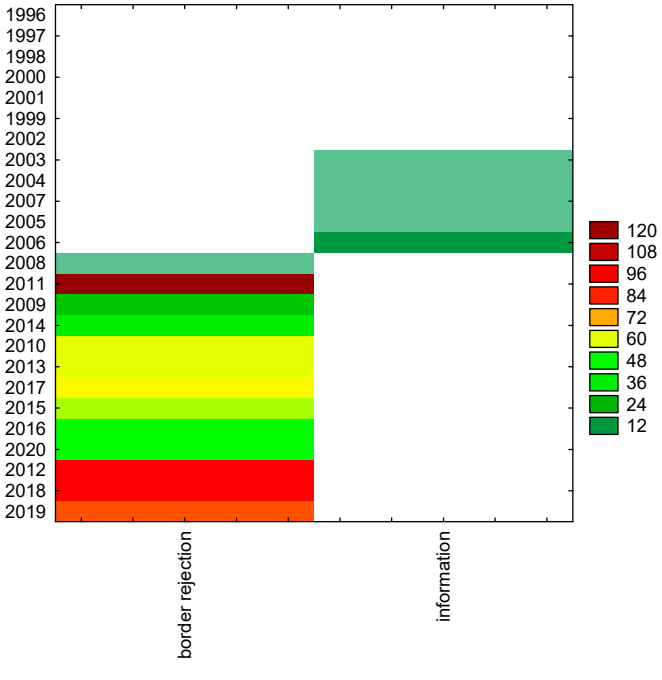
(a)



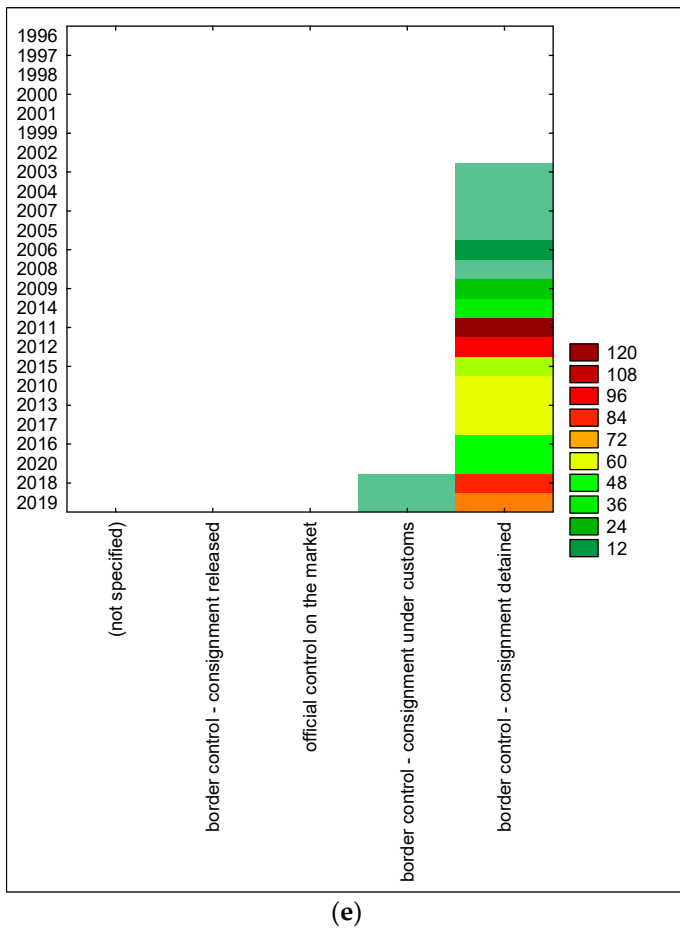
(b)



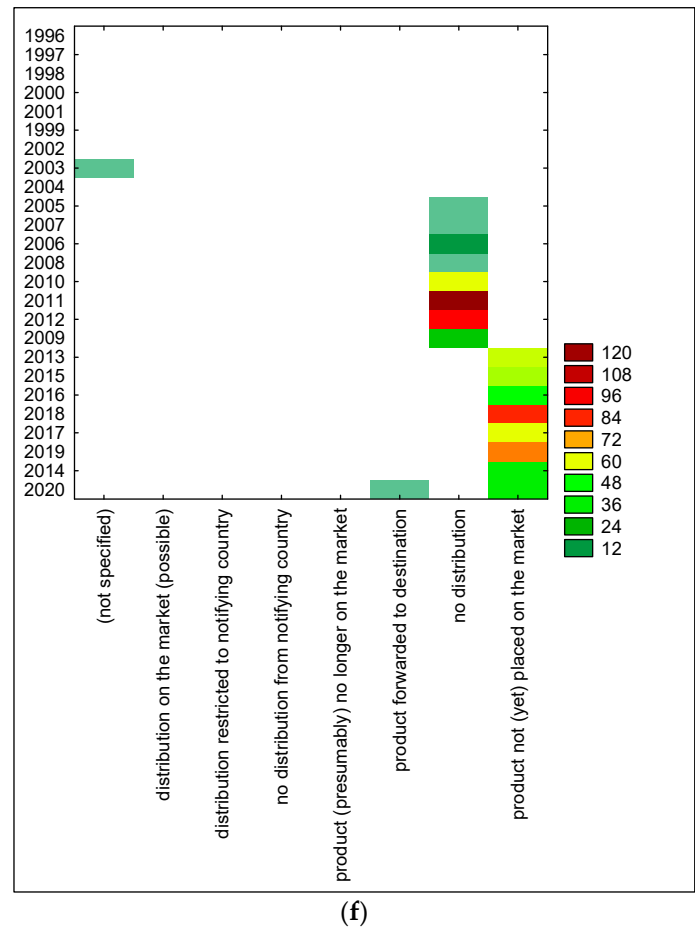
(c)



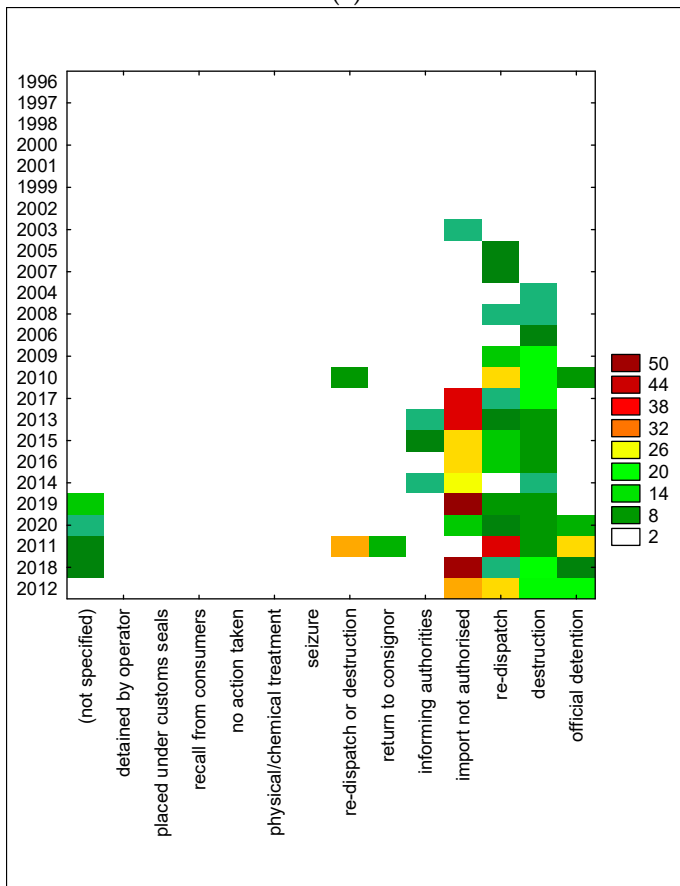
(d)



(e)

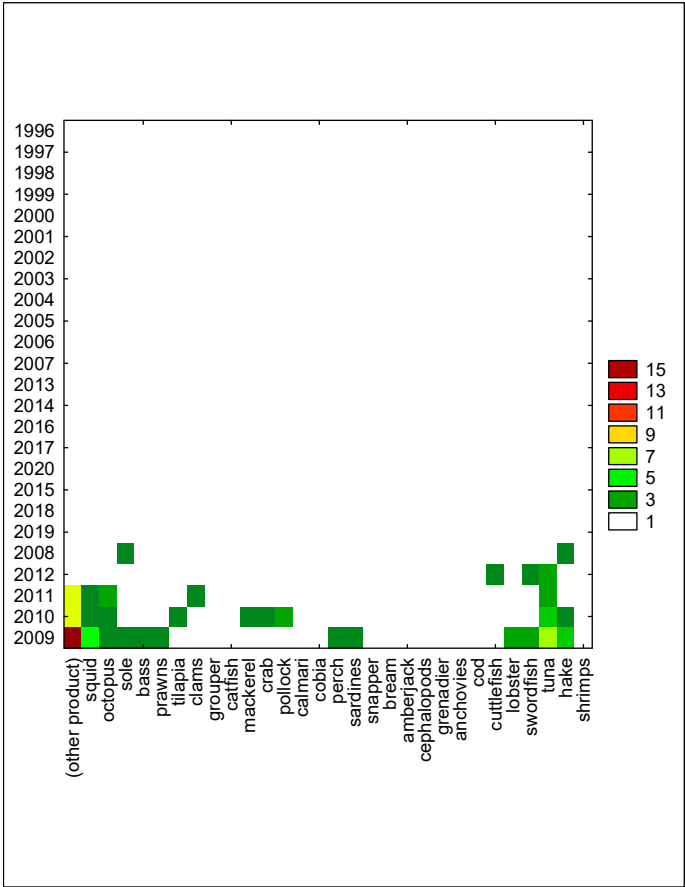


(f)

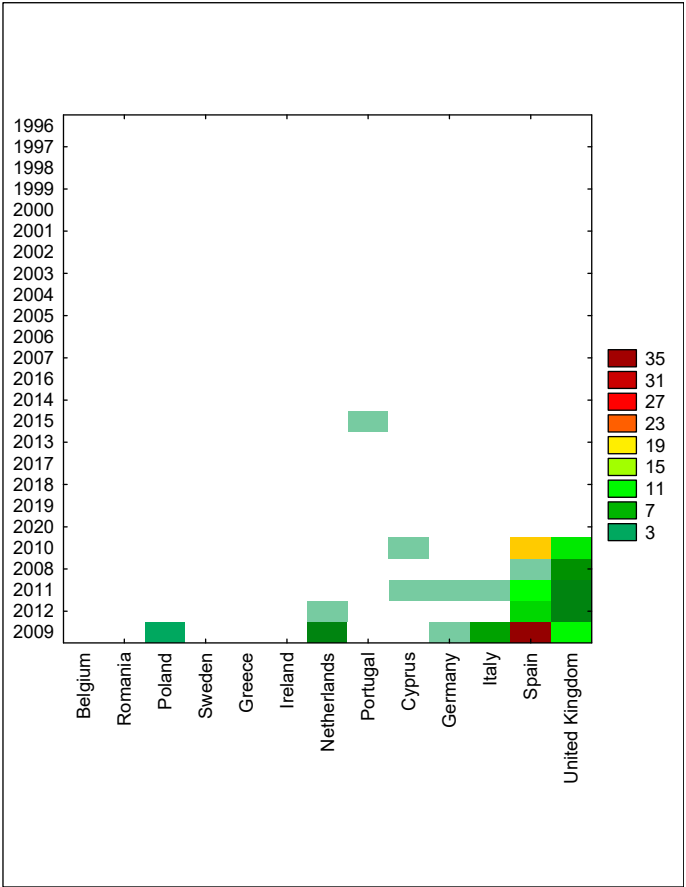


(g)

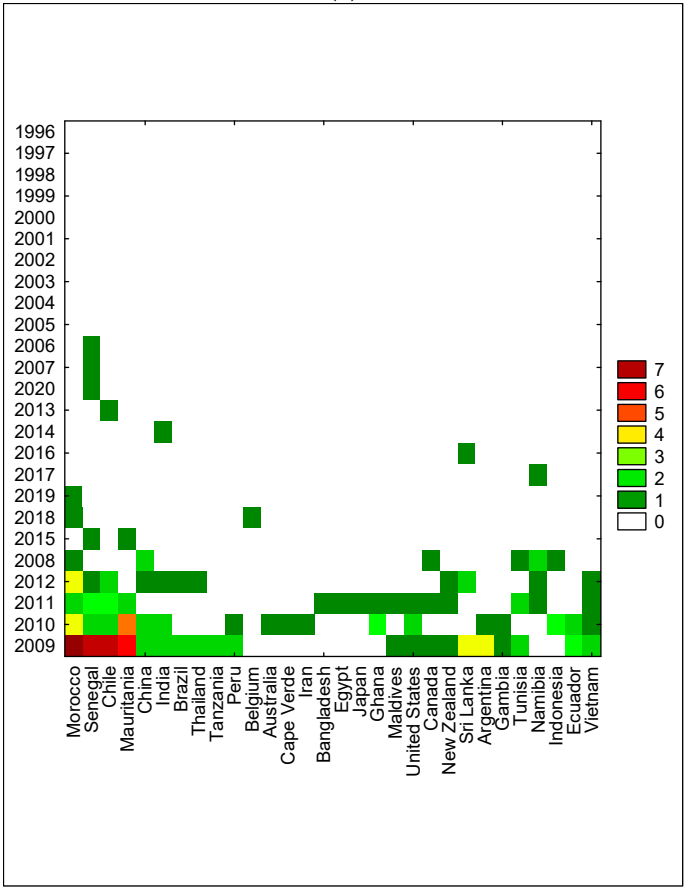
Figure S15. Results of two-way joining cluster analysis related to poor temperature control; (a) product; (b) notifying country; (c) country of origin; (d) notification type; (e) notification basis; (f) distribution status; (g) action taken.



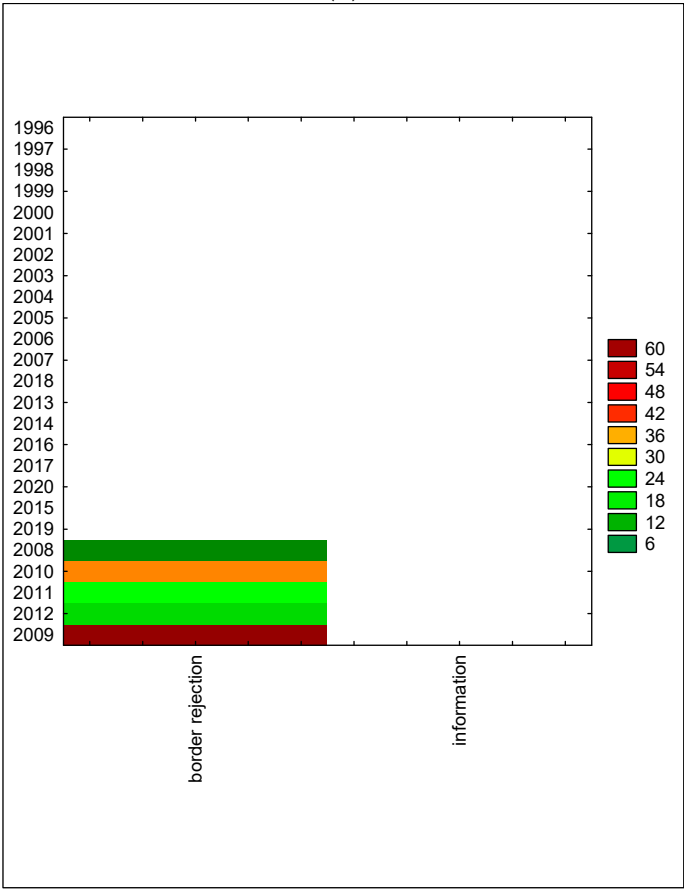
(a)



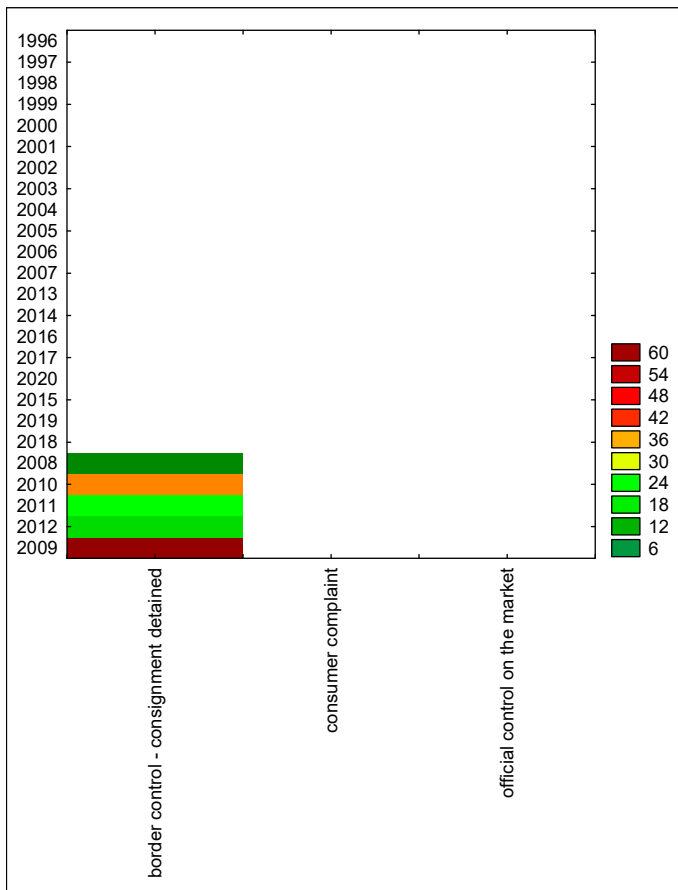
(b)



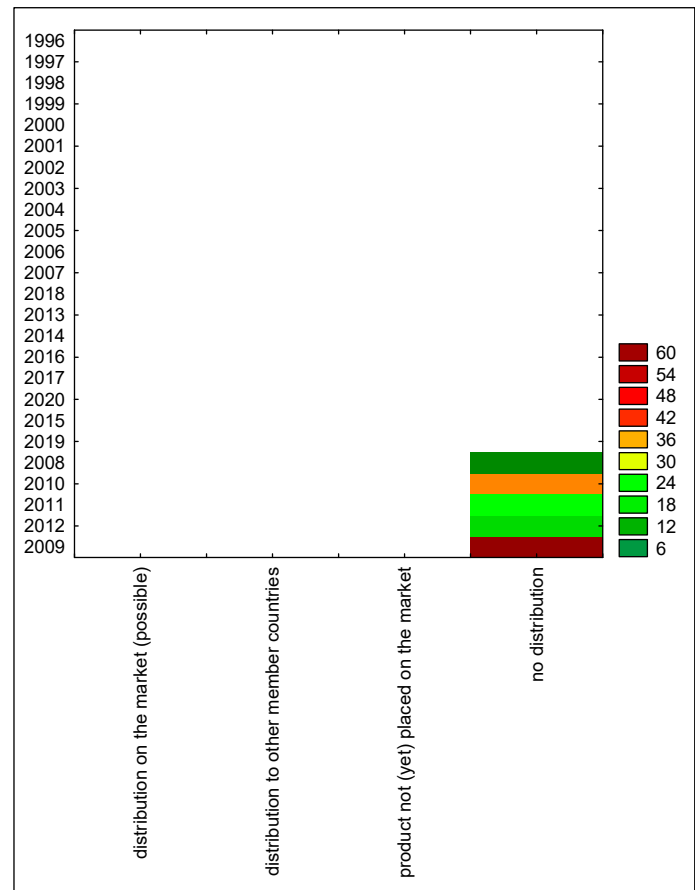
(c)



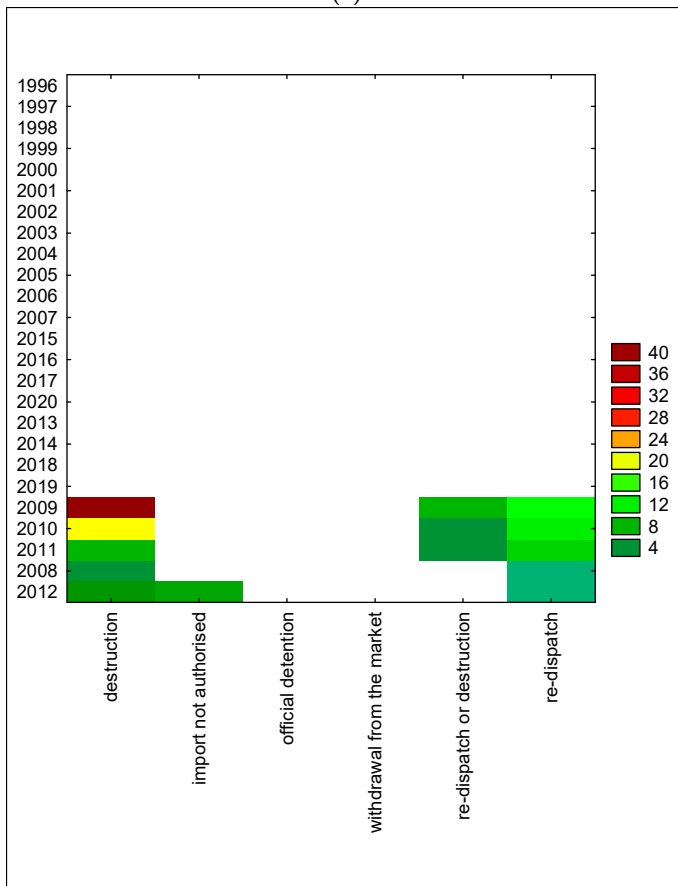
(d)



(e)

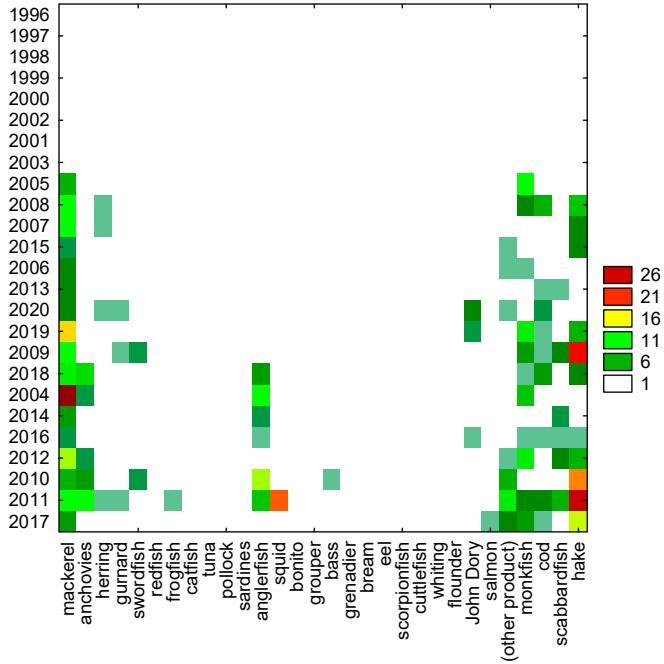


(f)

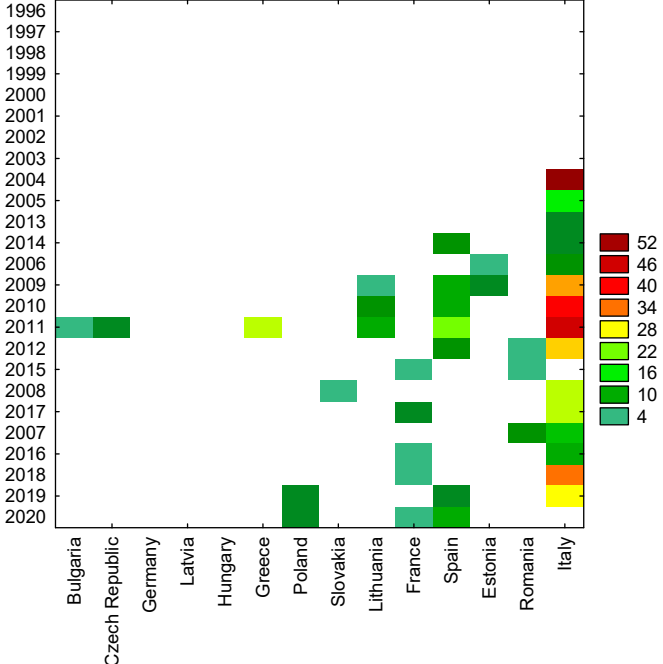


(g)

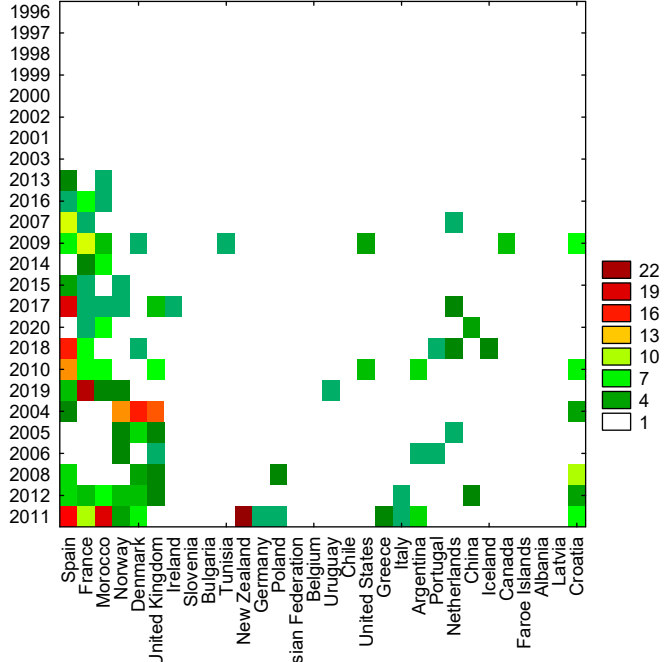
Figure S16. Results of two-way joining cluster analysis related to poor hygienic state; (a) product; (b) notifying country; (c) country of origin; (d) notification type; (e) notification basis; (f) distribution status; (g) action taken.



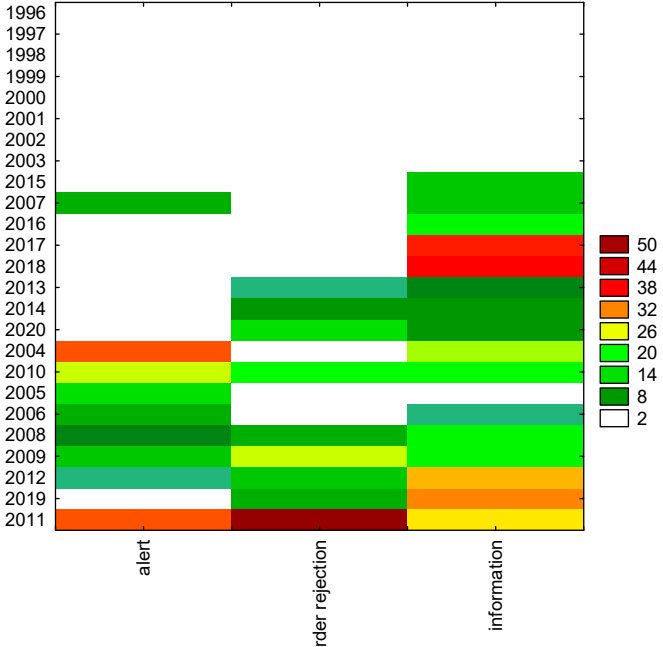
(a)



(b)



(c)



(d)

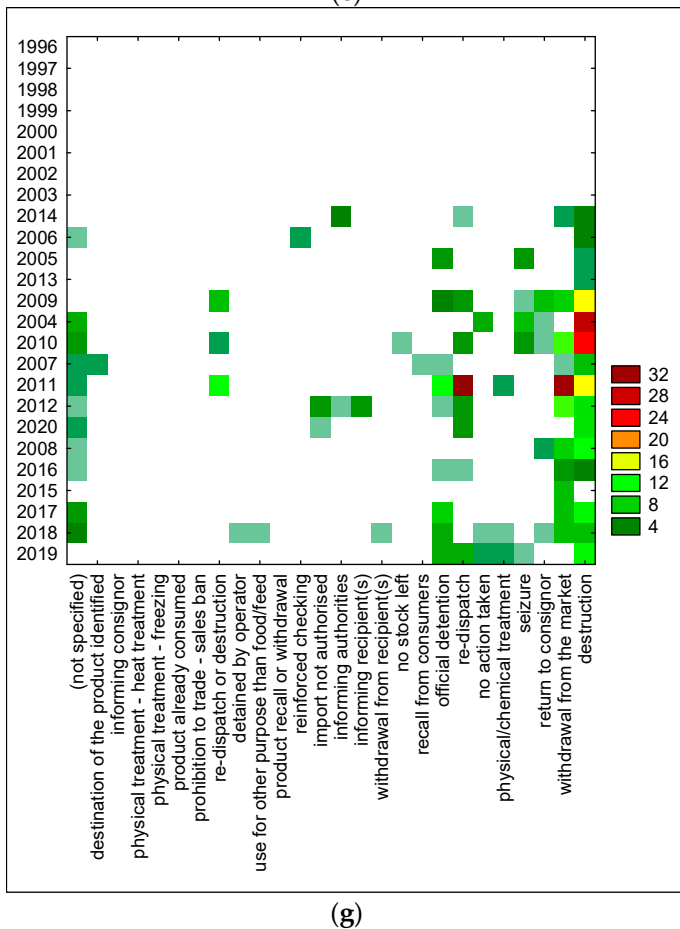
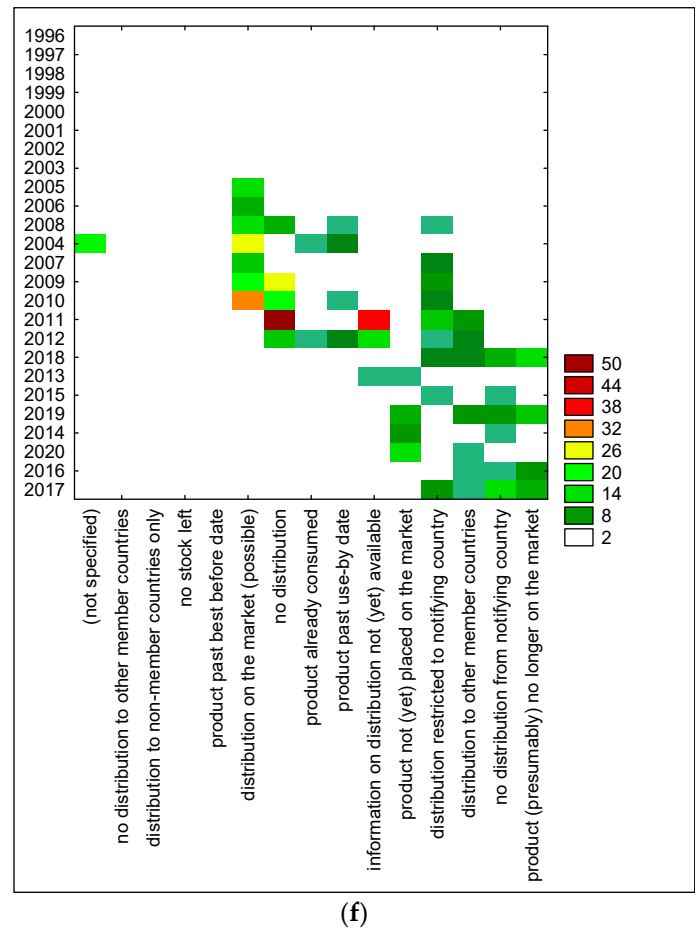
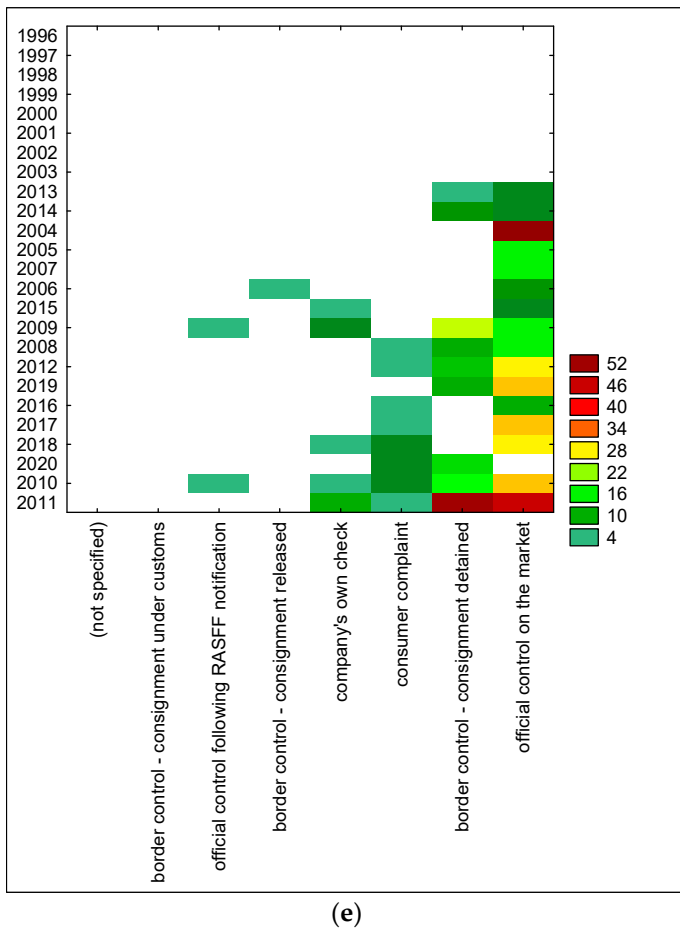
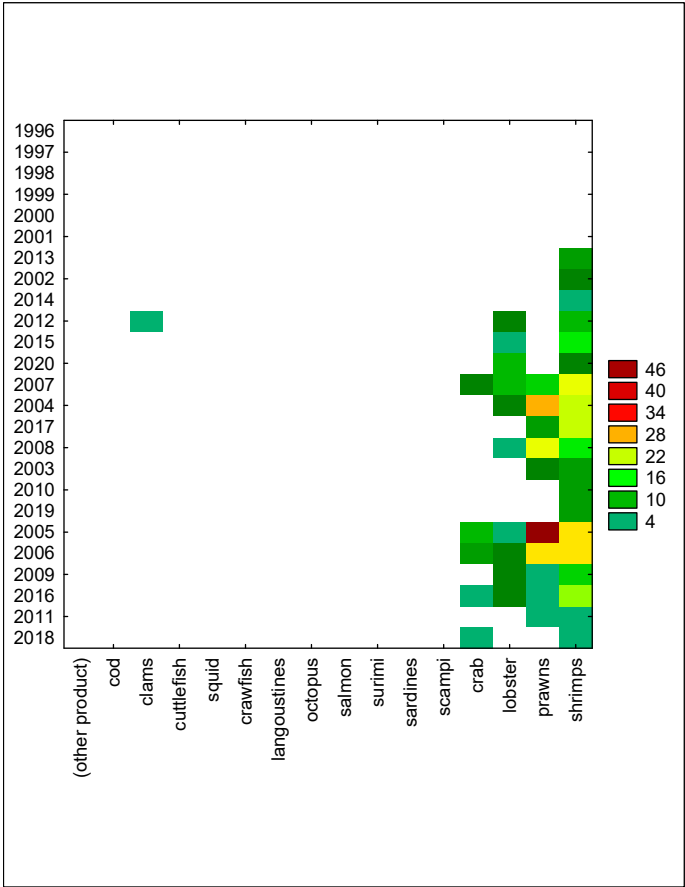
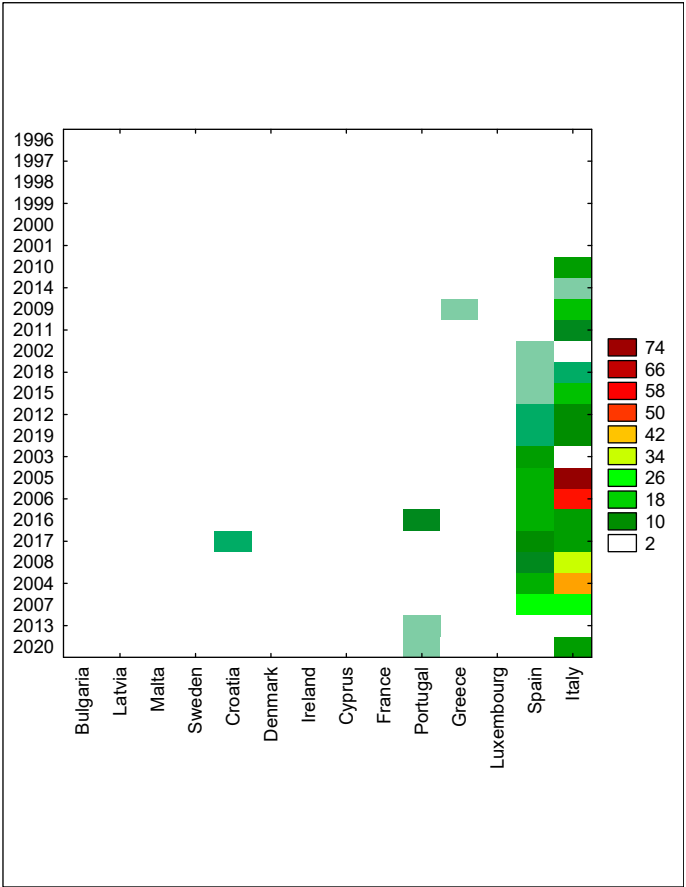


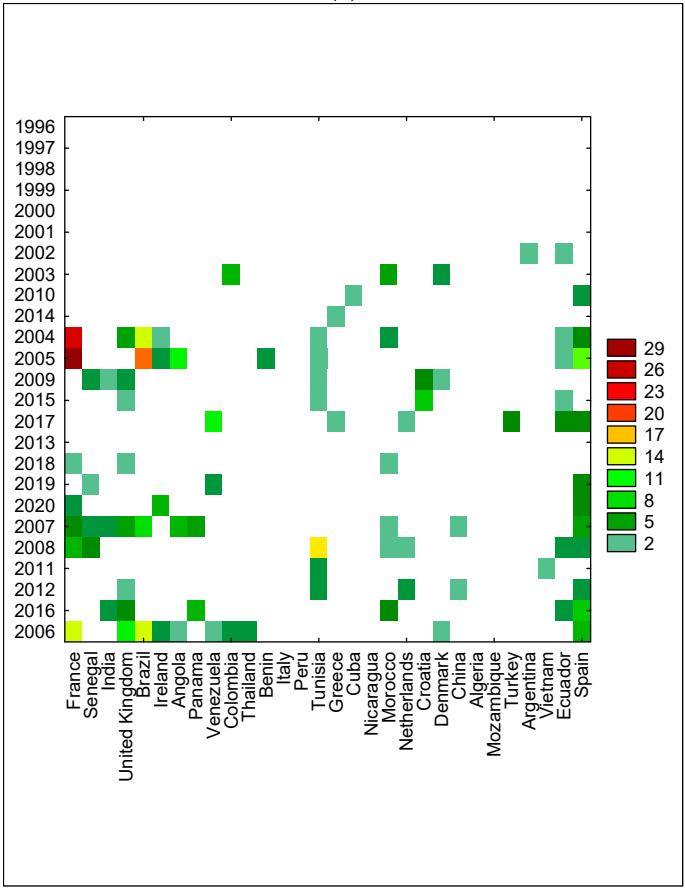
Figure S17. Results of two-way joining cluster analysis related to *Anisakis*; (a) product; (b) notifying country; (c) country of origin; (d) notification type; (e) notification basis; (f) distribution status; (g) action taken.



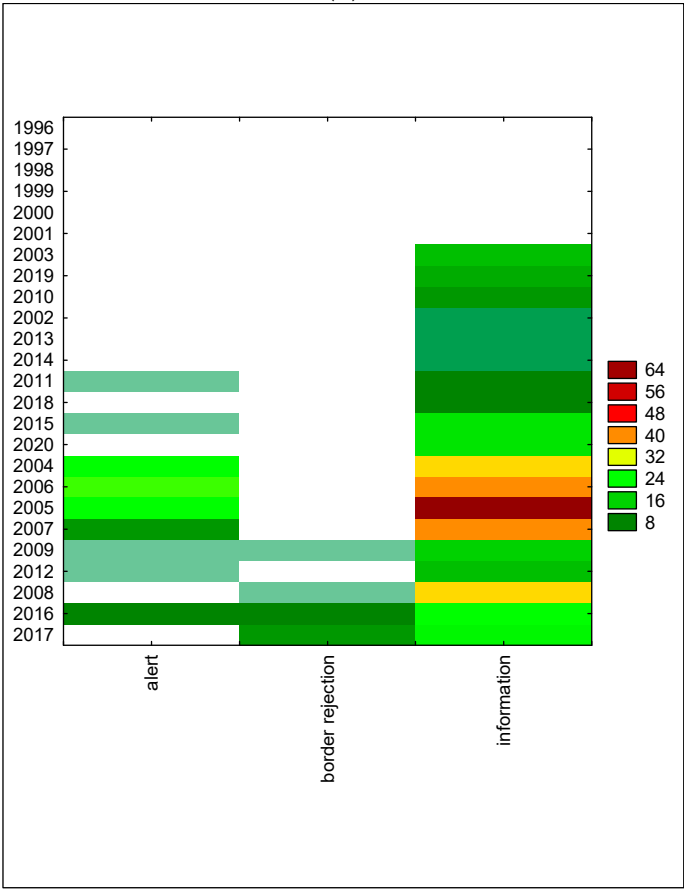
(a)



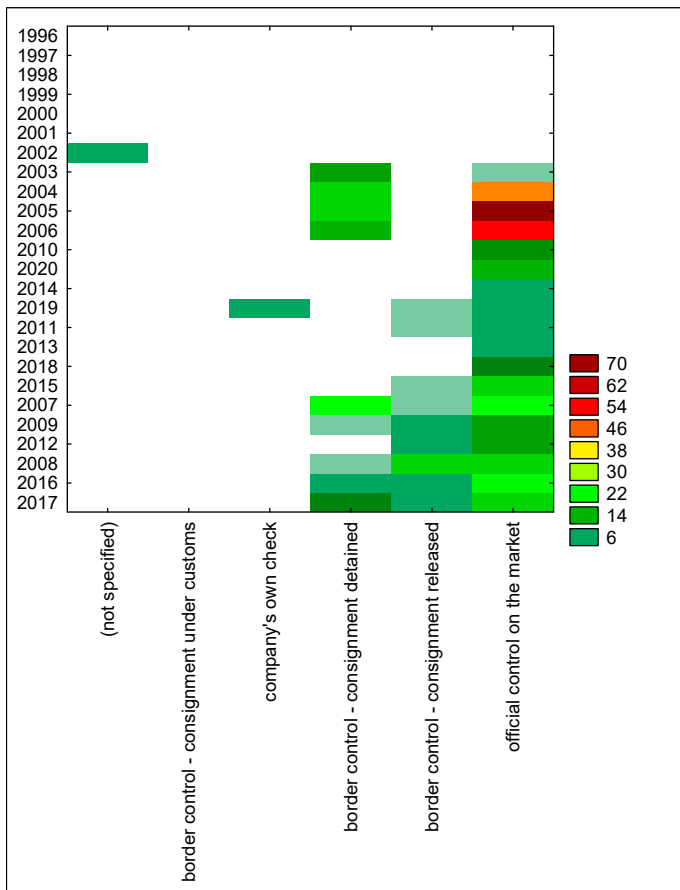
(b)



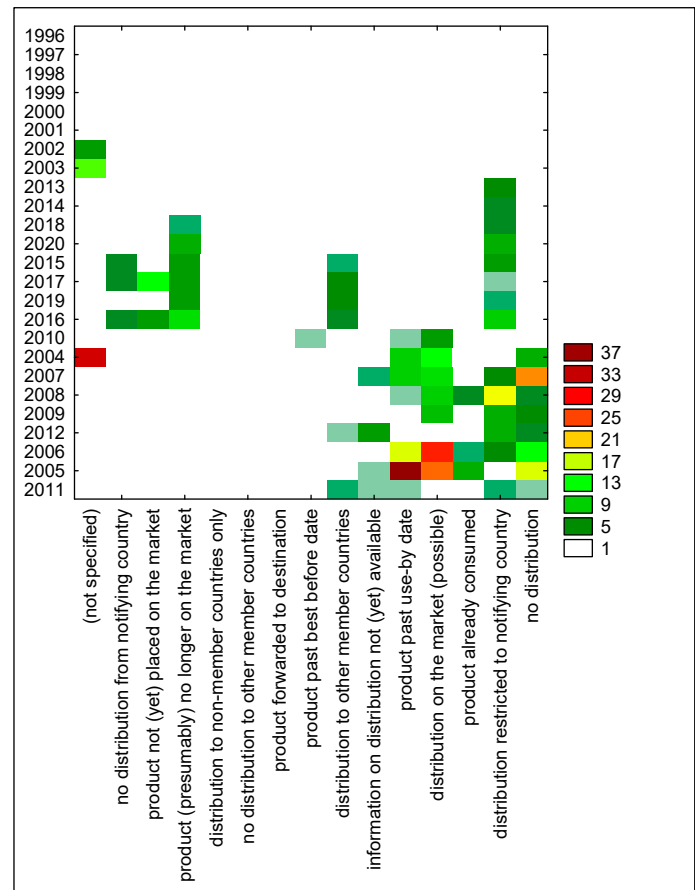
(c)



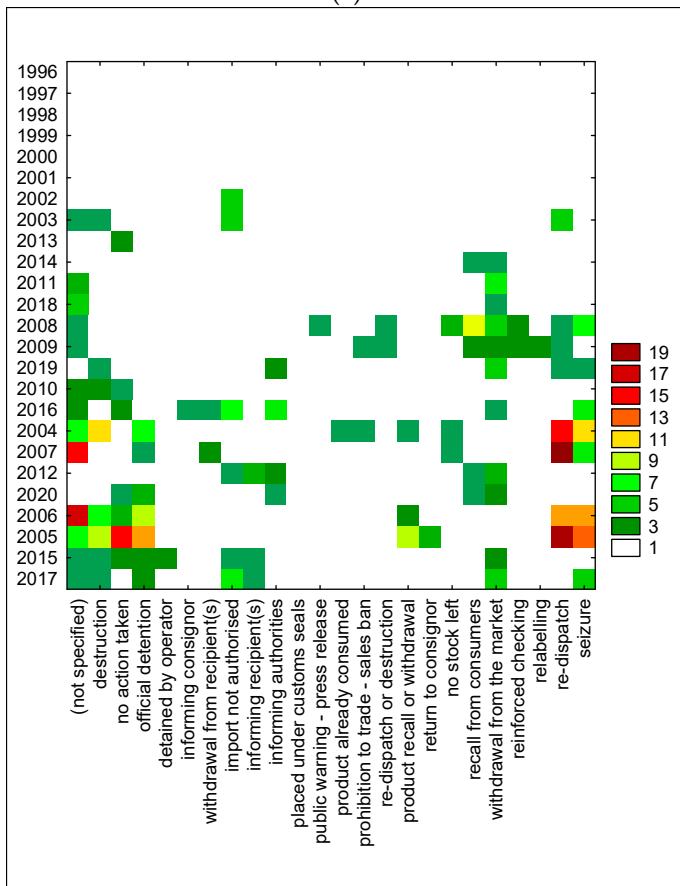
(d)



(e)

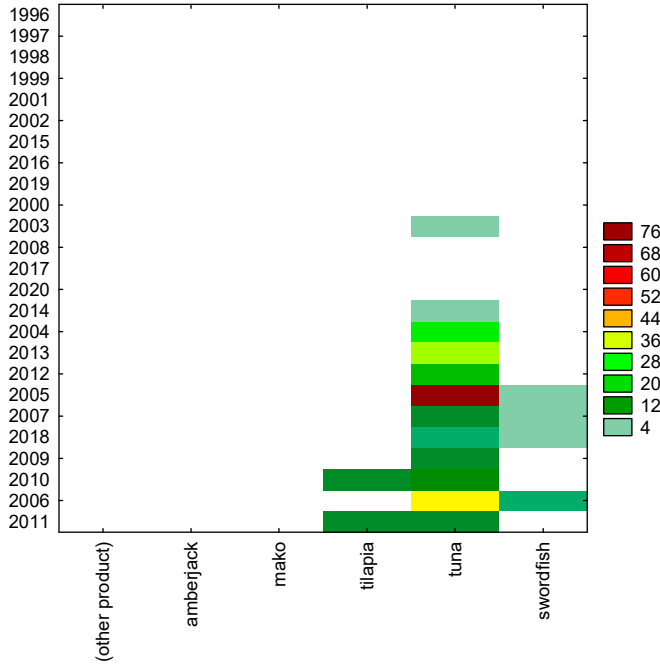


(f)

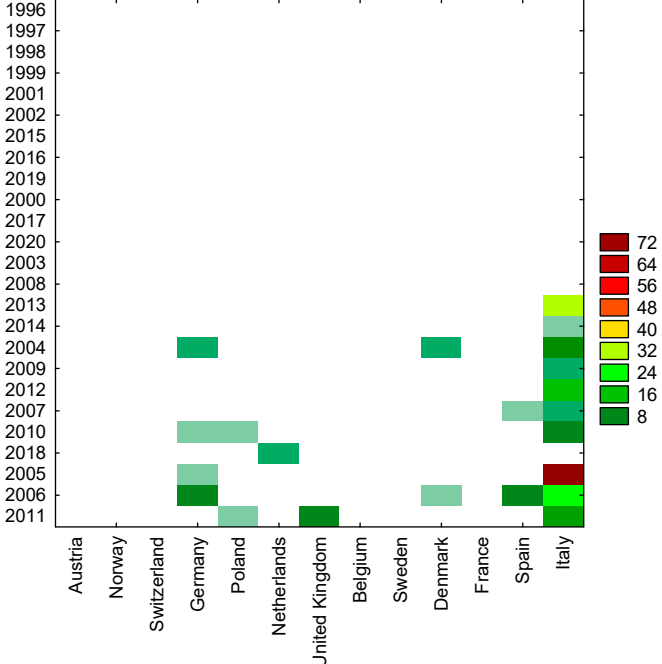


(g)

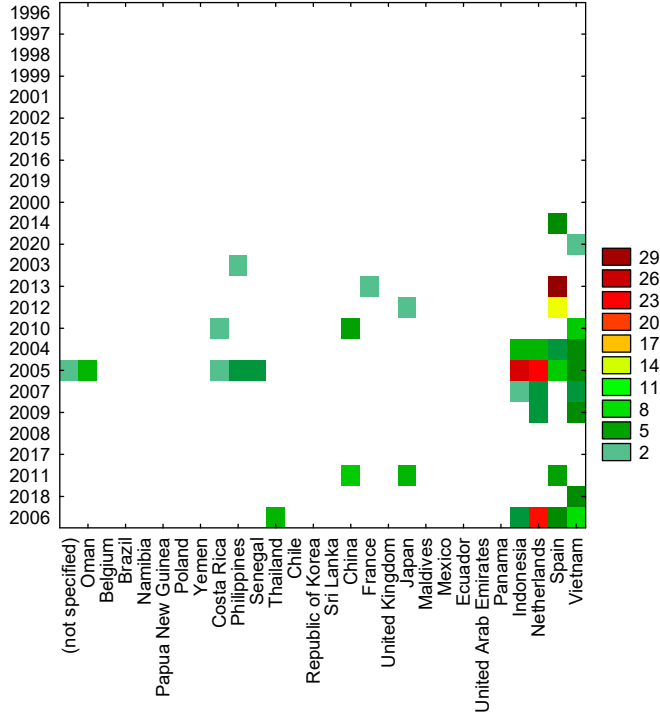
Figure S18. Results of two-way joining cluster analysis related to sulphite; (a) product; (b) notifying country; (c) country of origin; (d) notification type; (e) notification basis; (f) distribution status; (g) action taken



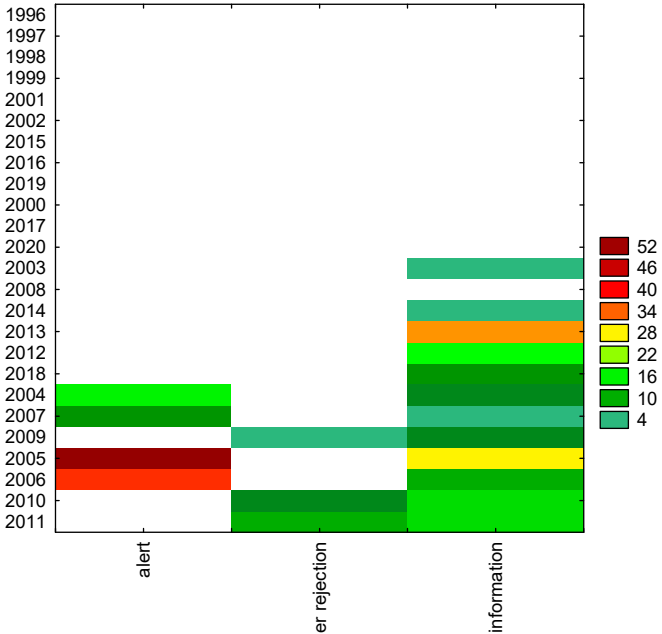
(a)



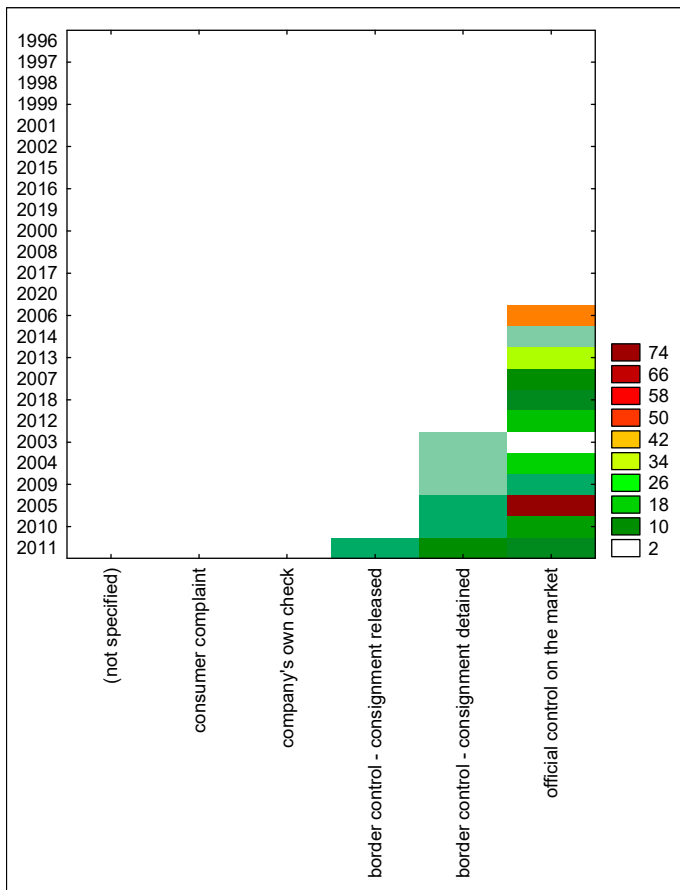
(b)



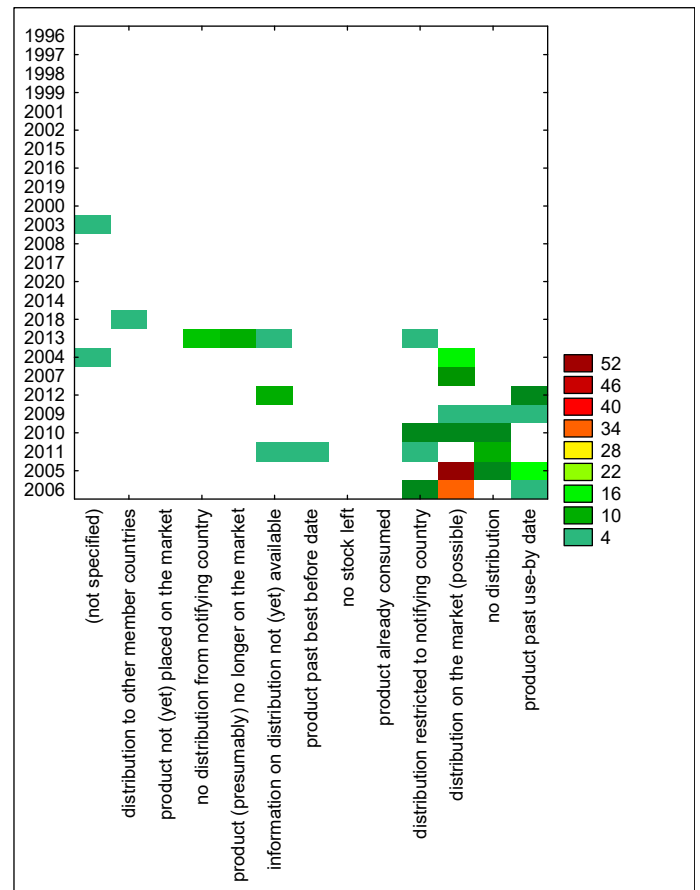
(c)



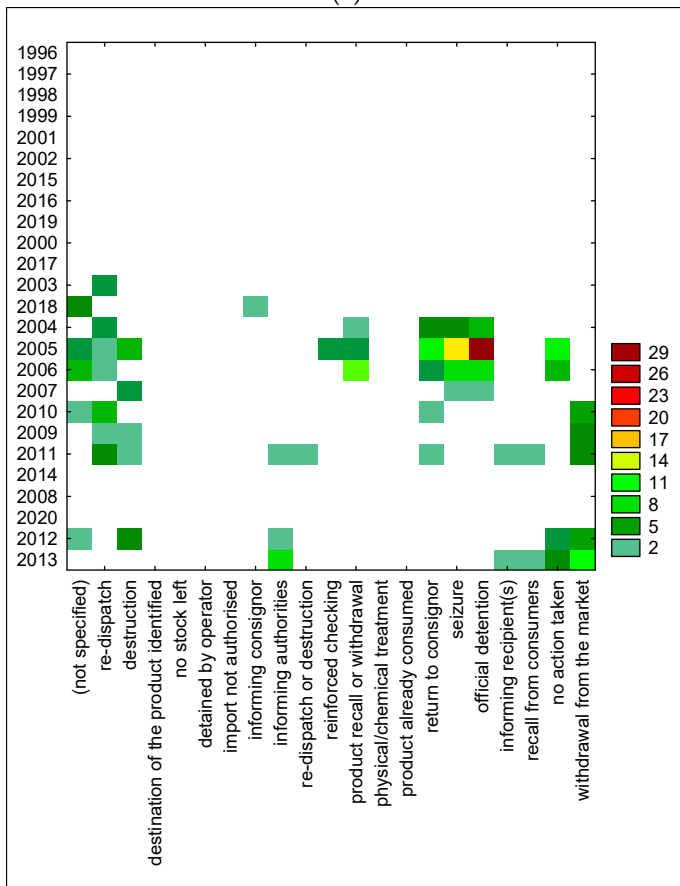
(d)



(e)

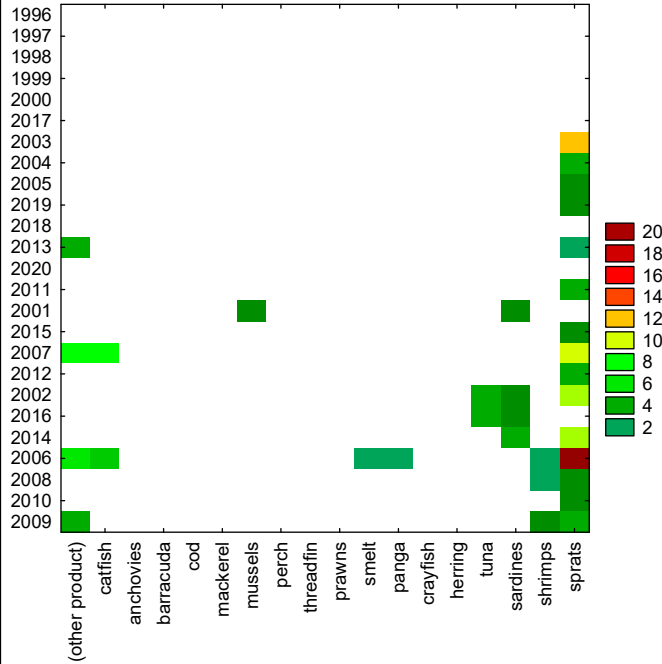


(f)

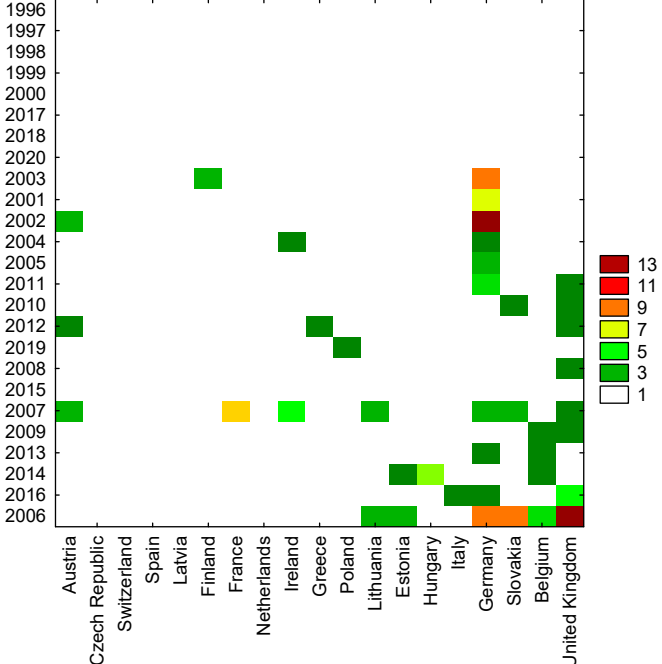


(g)

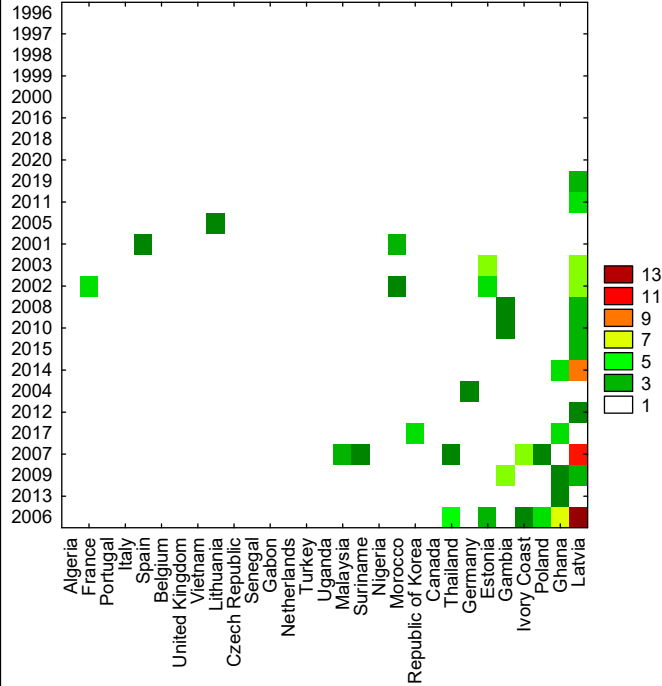
Figure S19. Results of two-way joining cluster analysis related to carbon monoxide; (a) product; (b) notifying country; (c) country of origin; (d) notification type; (e) notification basis; (f) distribution status; (g) action taken.



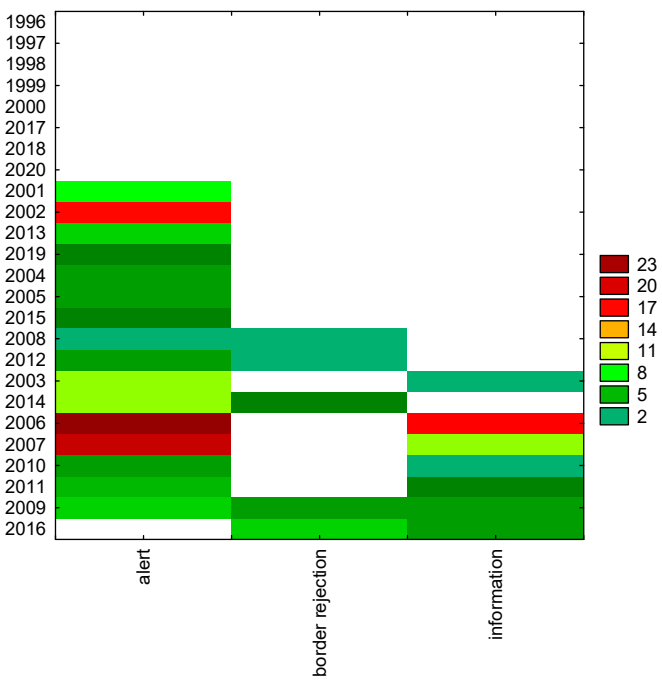
(a)



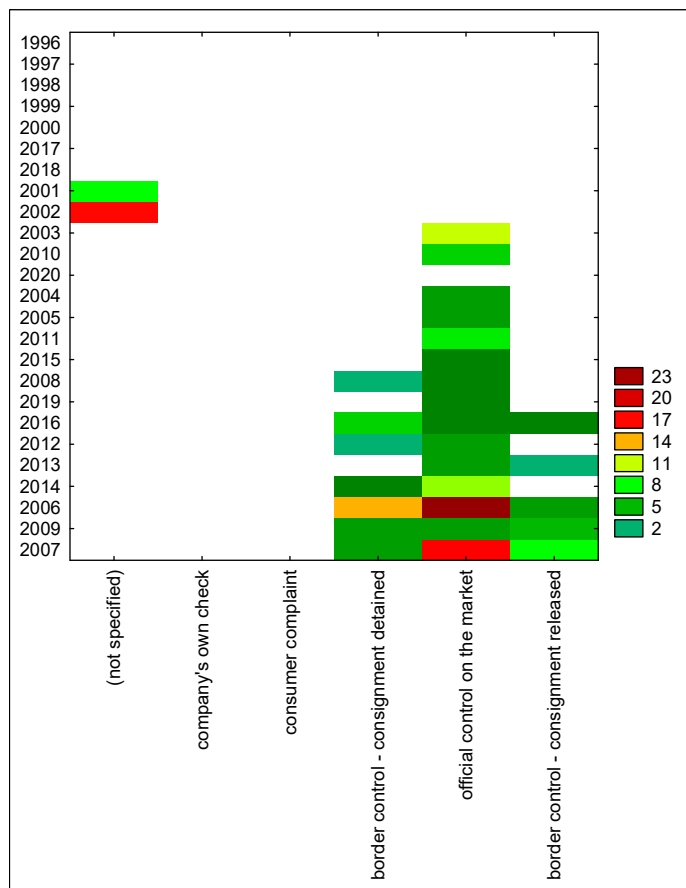
(b)



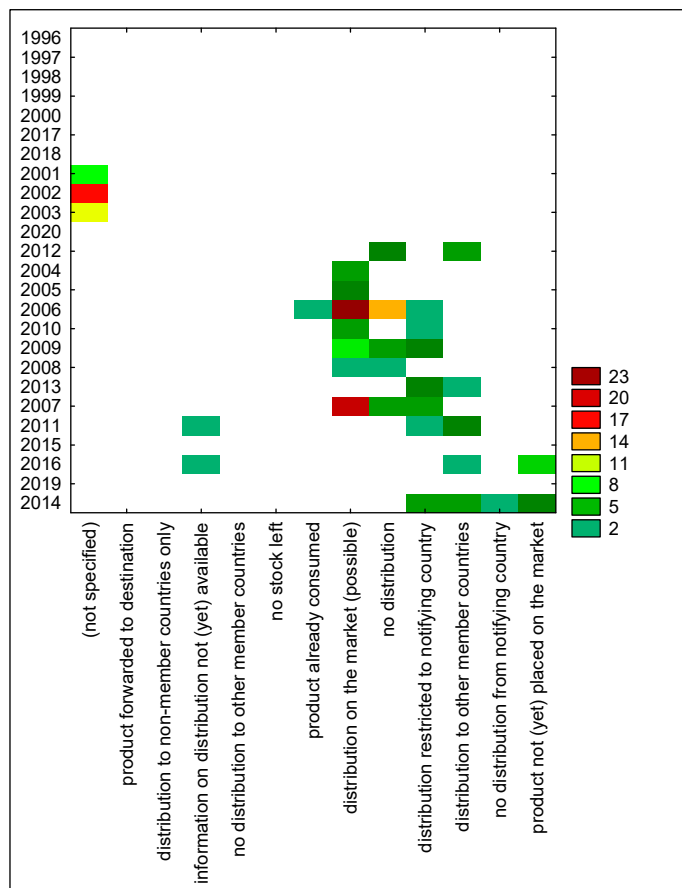
(c)



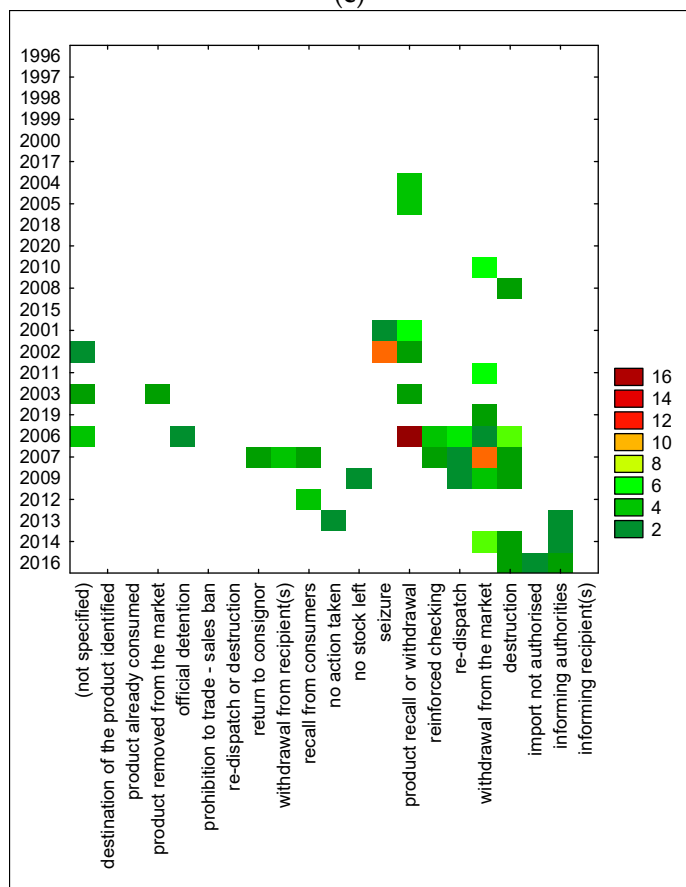
(d)



(e)

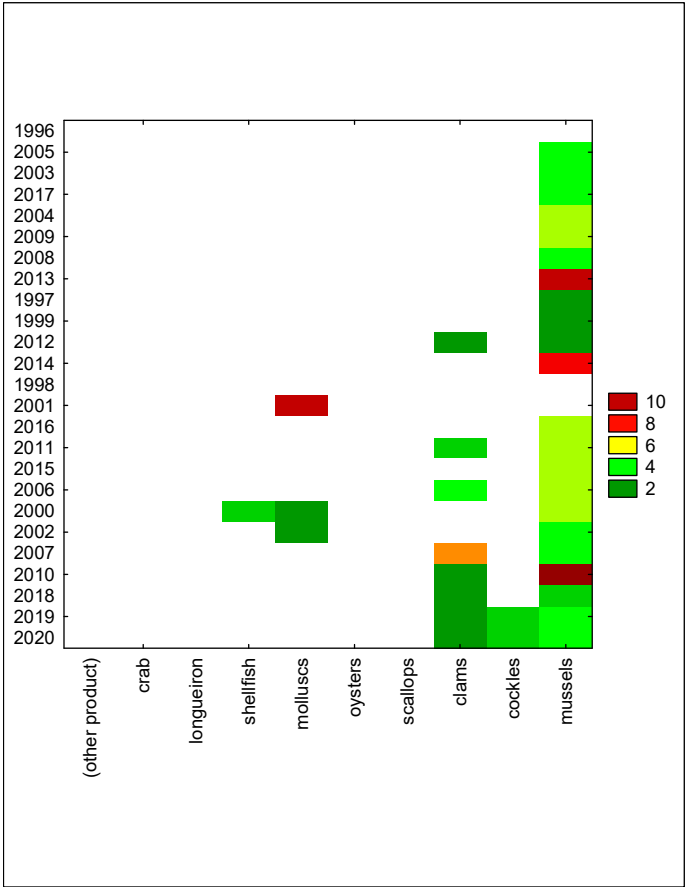


(f)

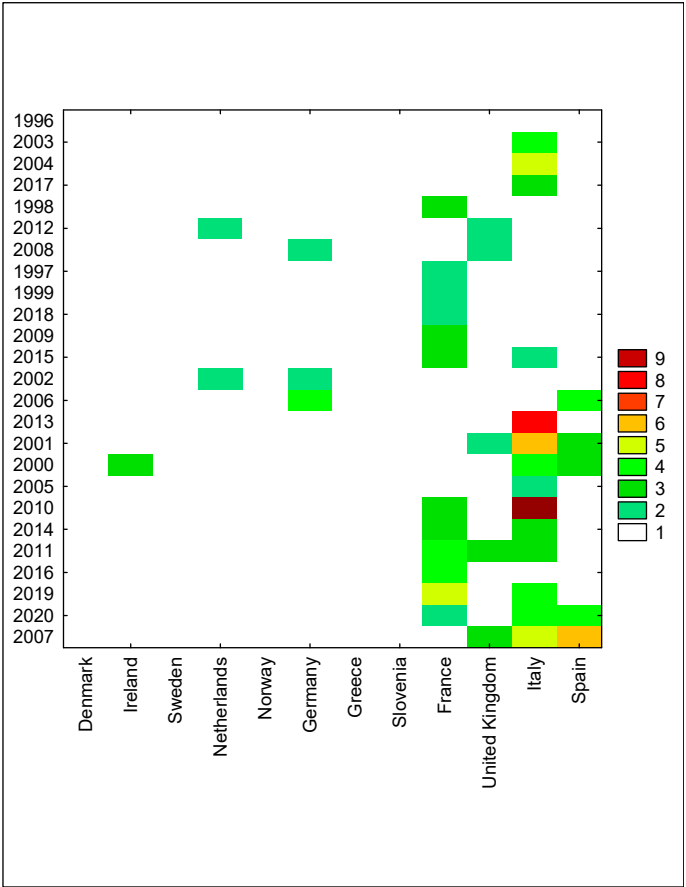


(g)

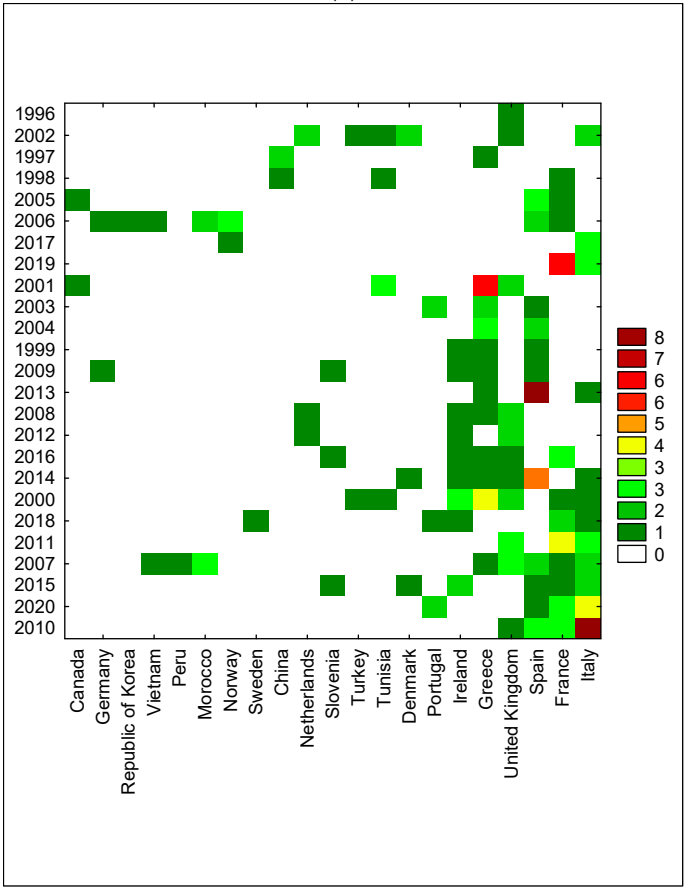
Figure S20. Results of two-way joining cluster analysis related to benzo(a)pyrene; (a) product; (b) notifying country; (c) country of origin; (d) notification type; (e) notification basis; (f) distribution status; (g) action taken.



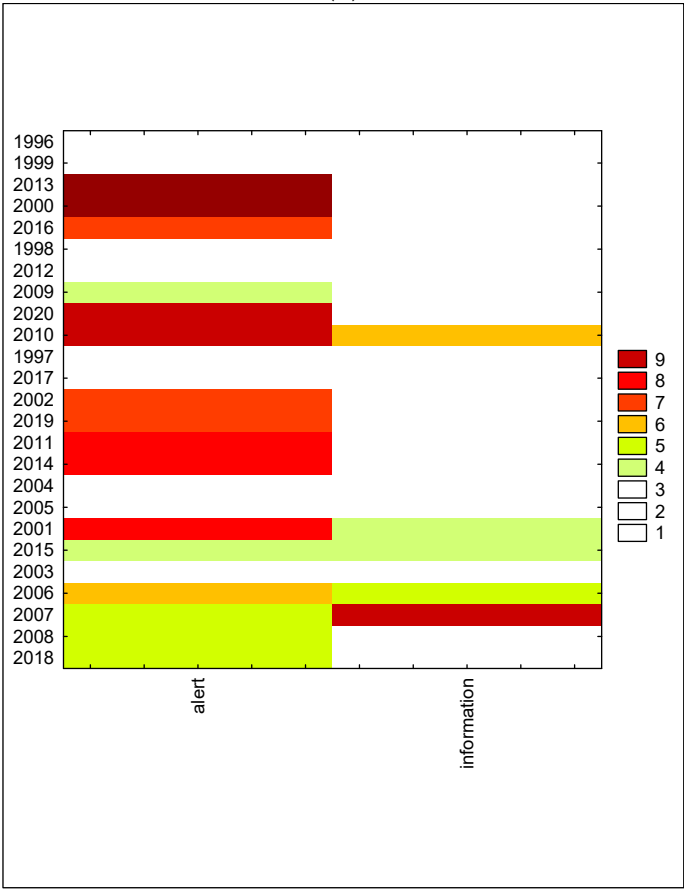
(a)



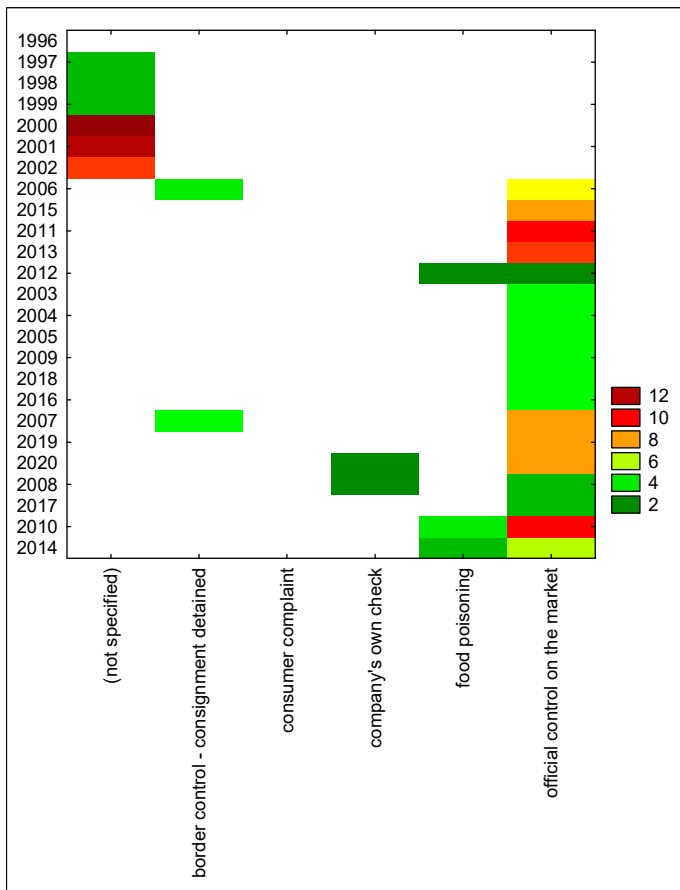
(b)



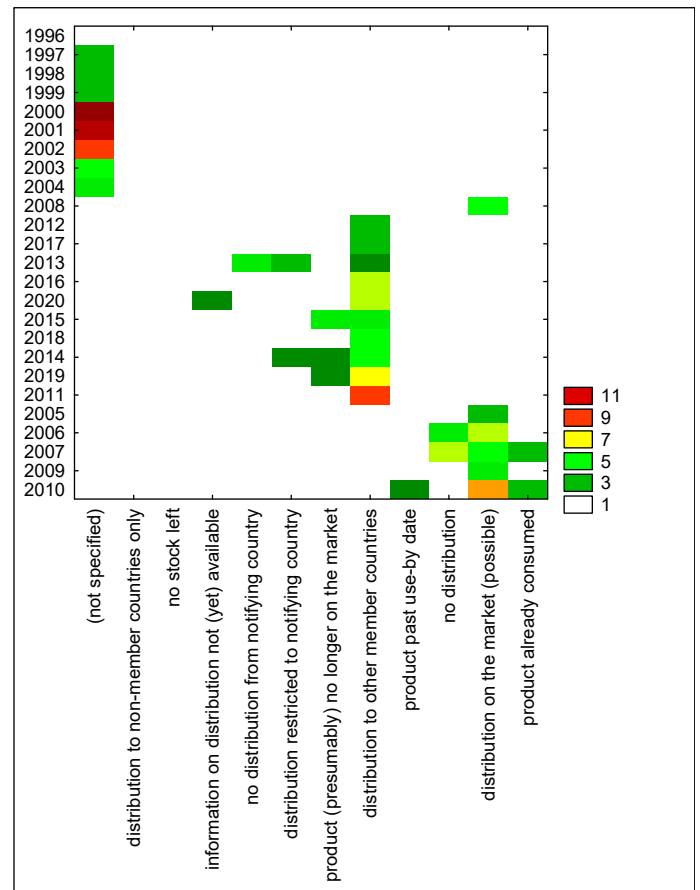
(c)



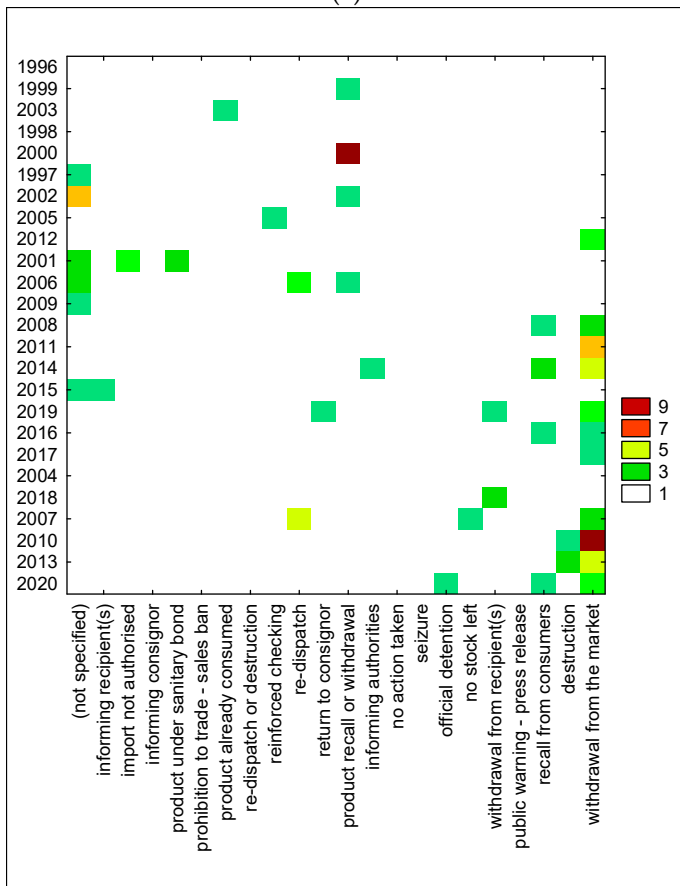
(d)



(e)

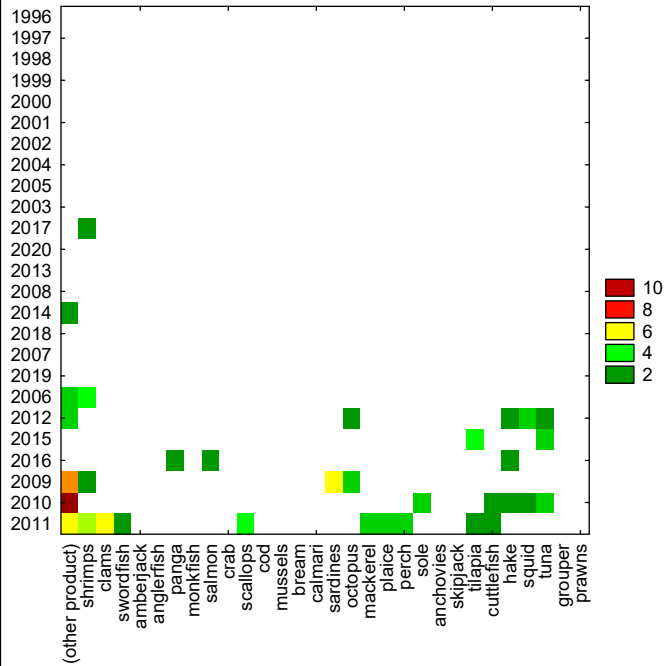


(f)

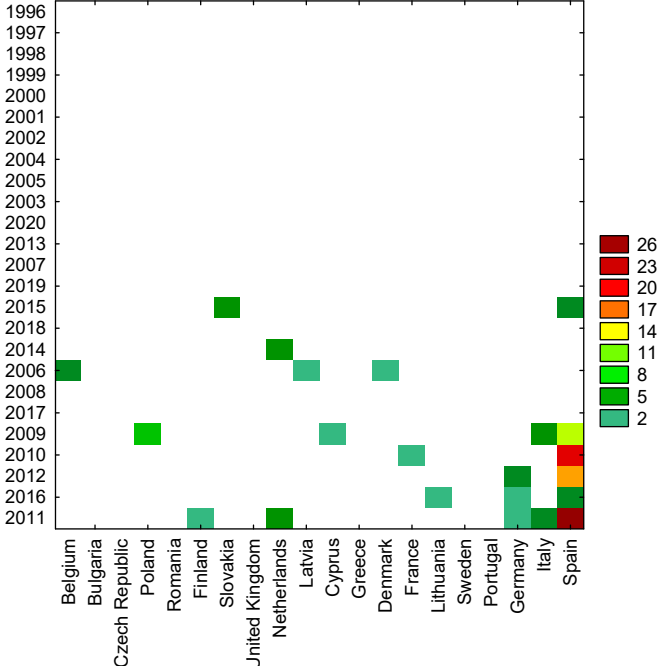


(g)

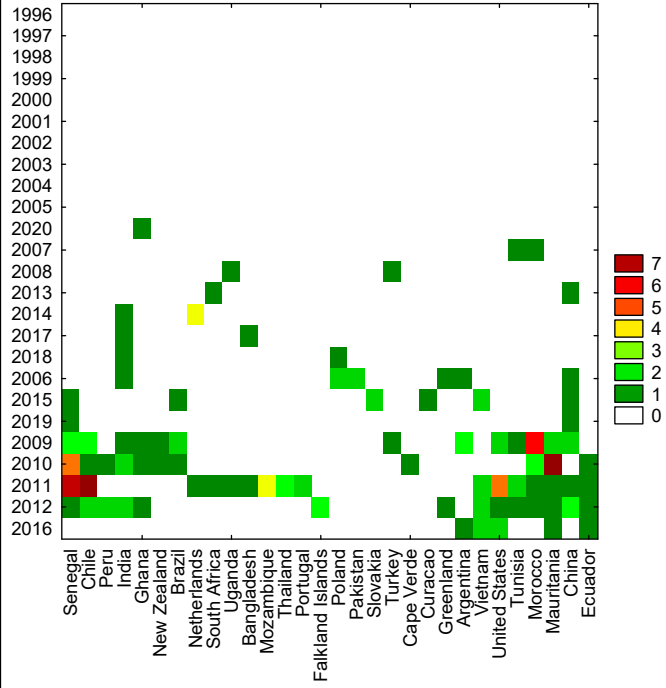
Figure S21. Results of two-way joining cluster analysis related to Diarrhoeic Shellfish Poisoning (DSP) toxins; (a) product; (b) notifying country; (c) country of origin; (d) notification type; (e) notification basis; (f) distribution status; (g) action taken.



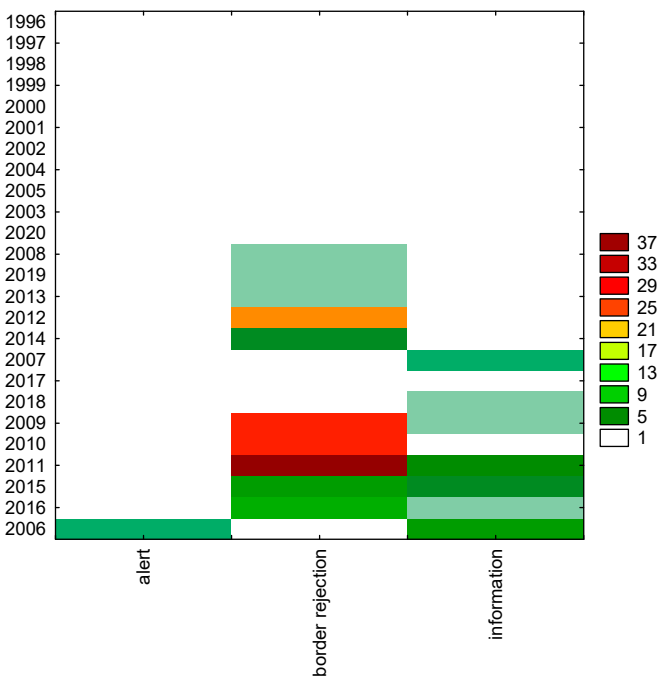
(a)



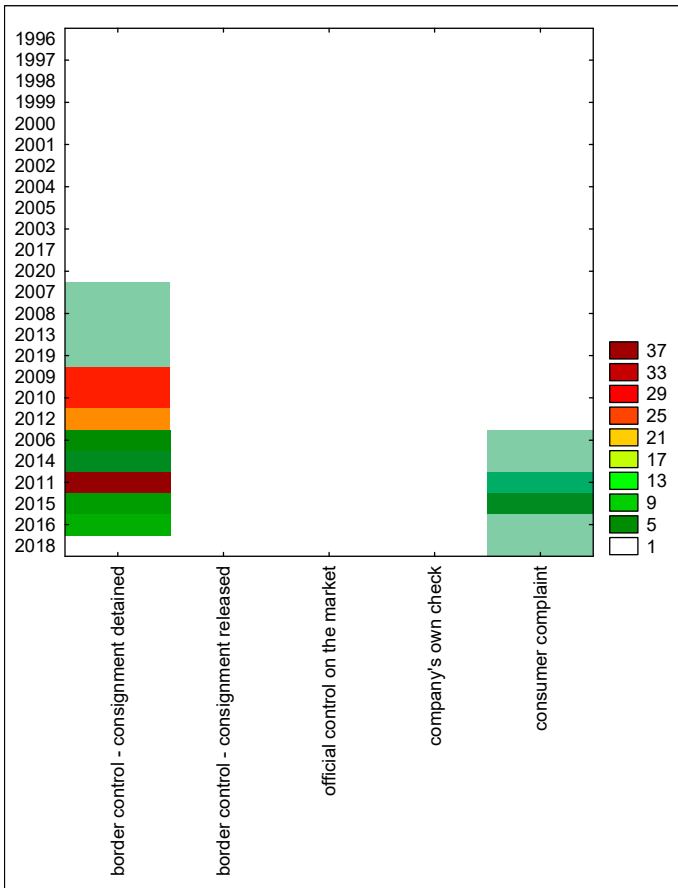
(b)



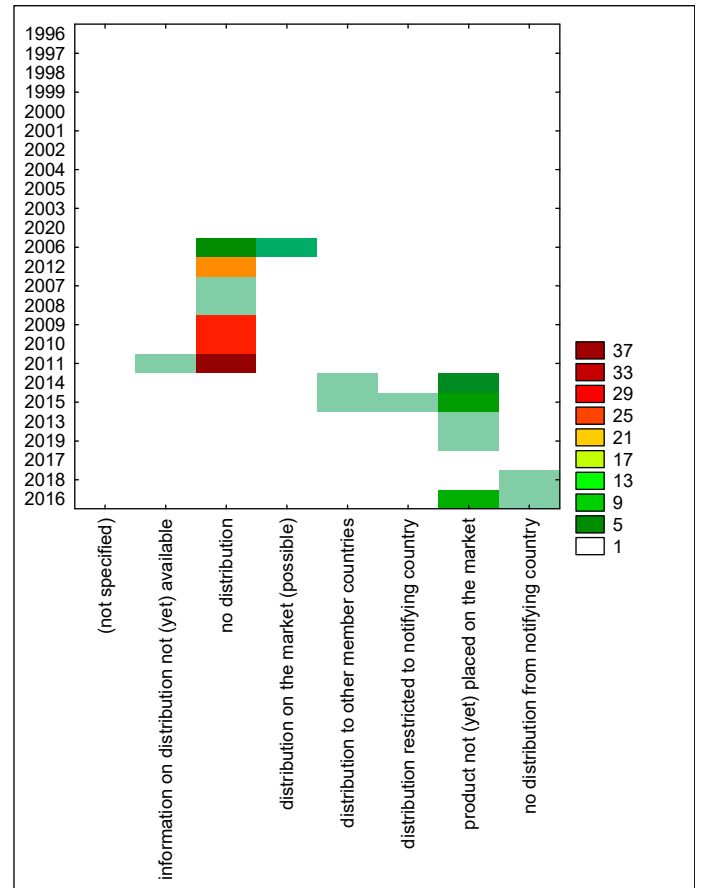
(c)



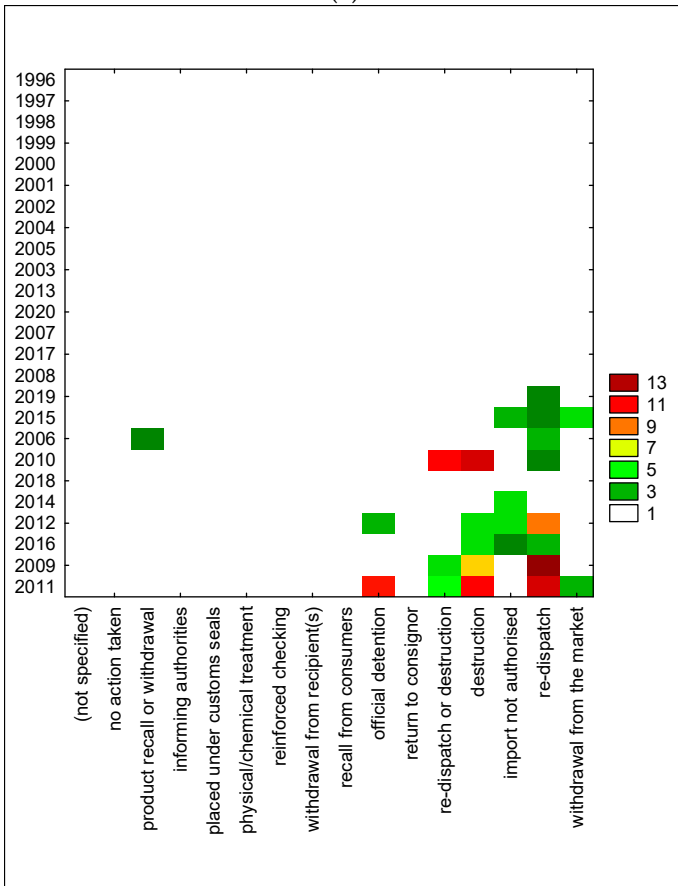
(d)



(e)

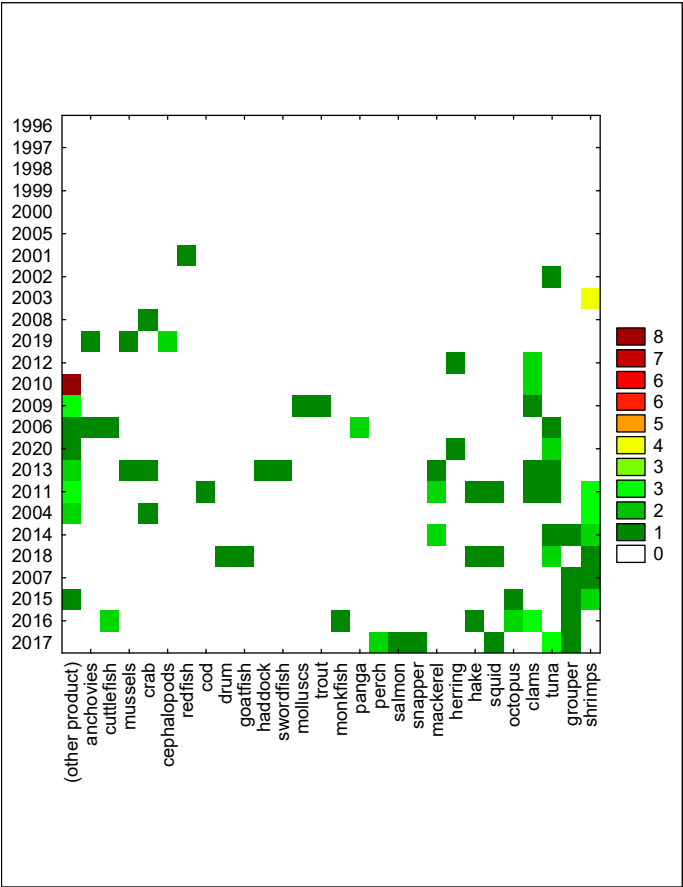


(f)

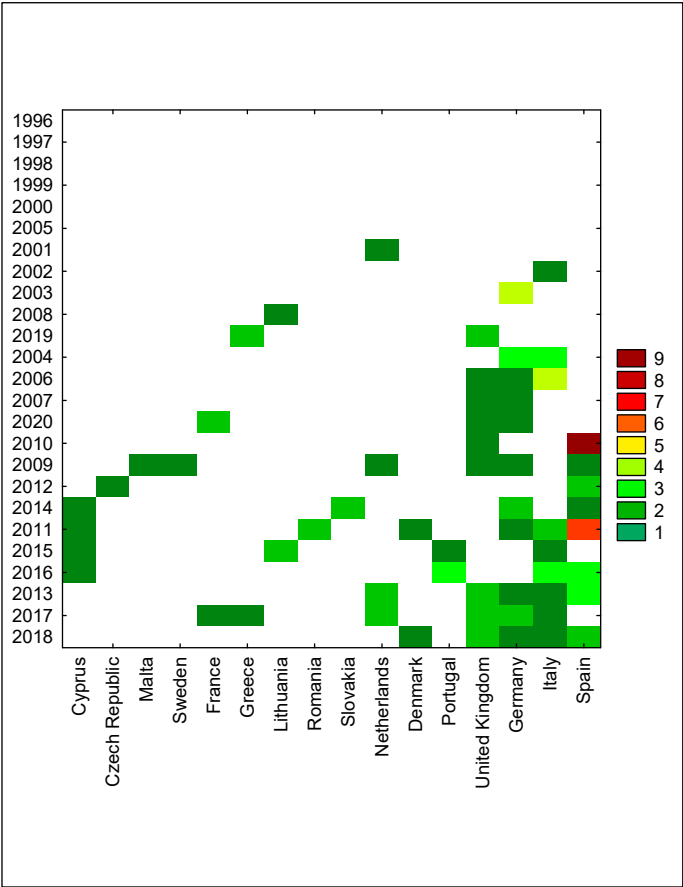


(g)

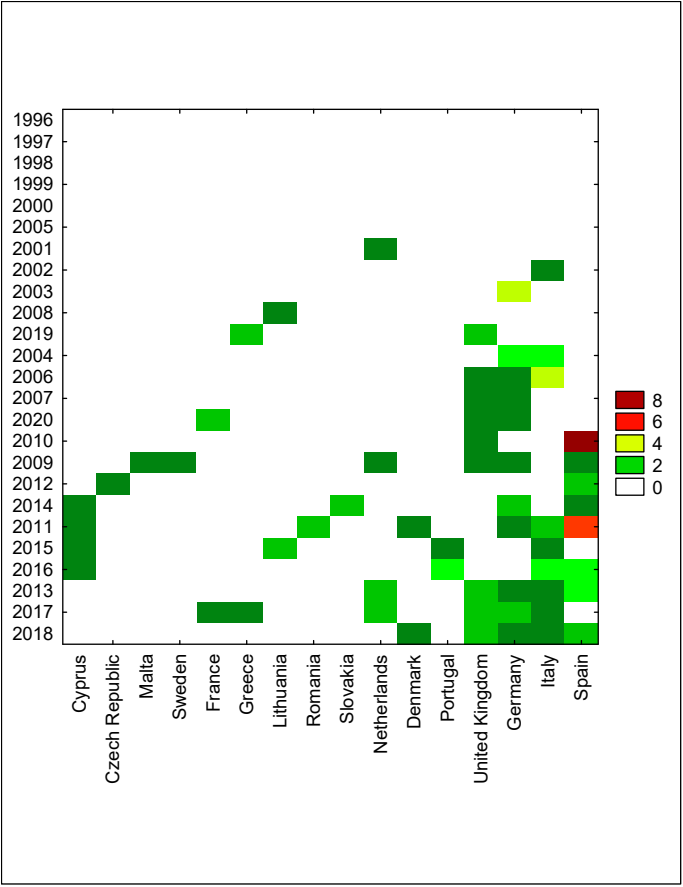
Figure S22. Results of two-way joining cluster analysis related to organoleptic characteristics; (a) product; (b) notifying country; (c) country of origin; (d) notification type; (e) notification basis; (f) distribution status; (g) action taken.



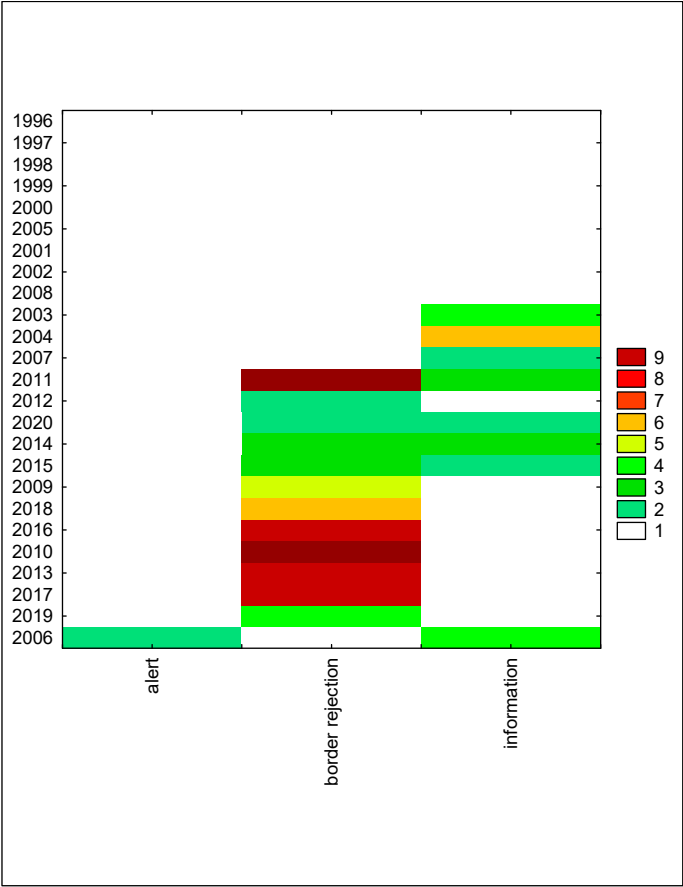
(a)



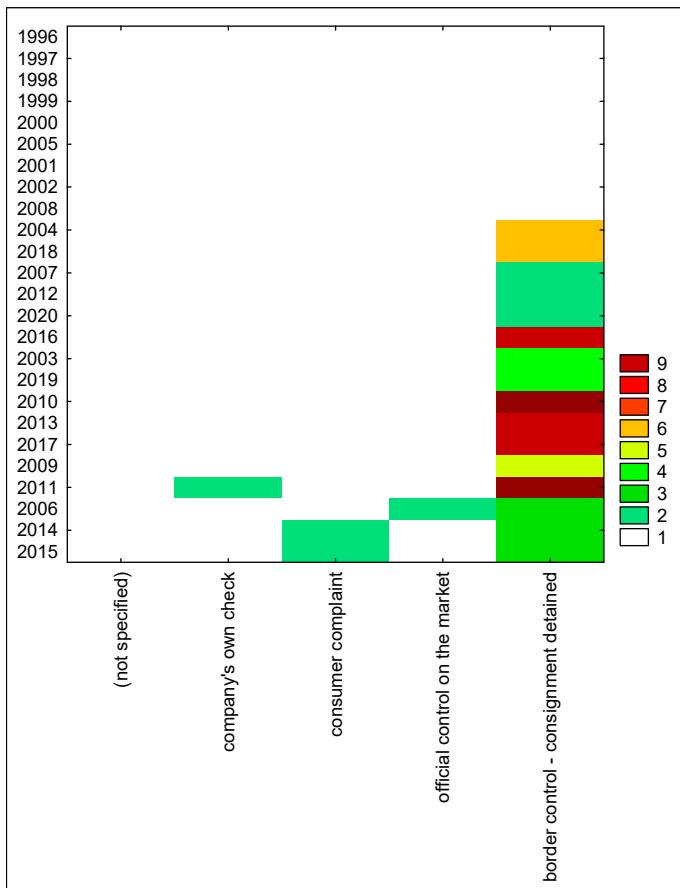
(b)



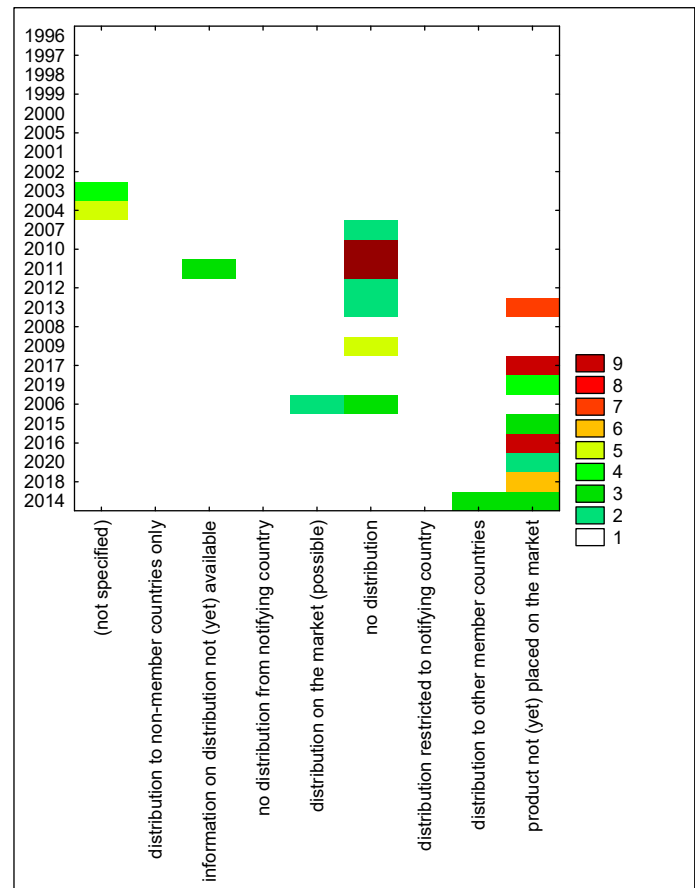
(c)



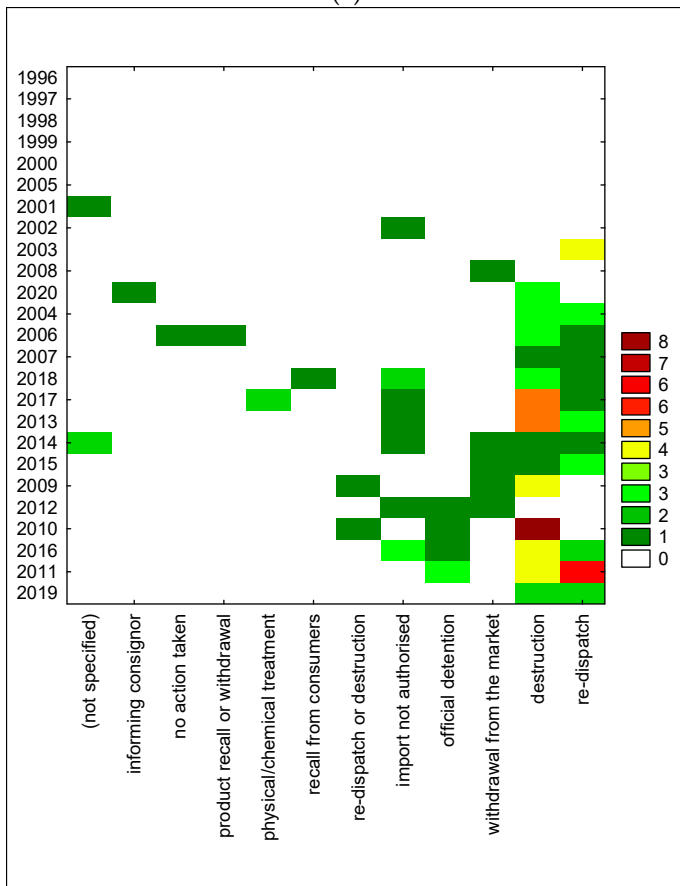
(d)



(e)

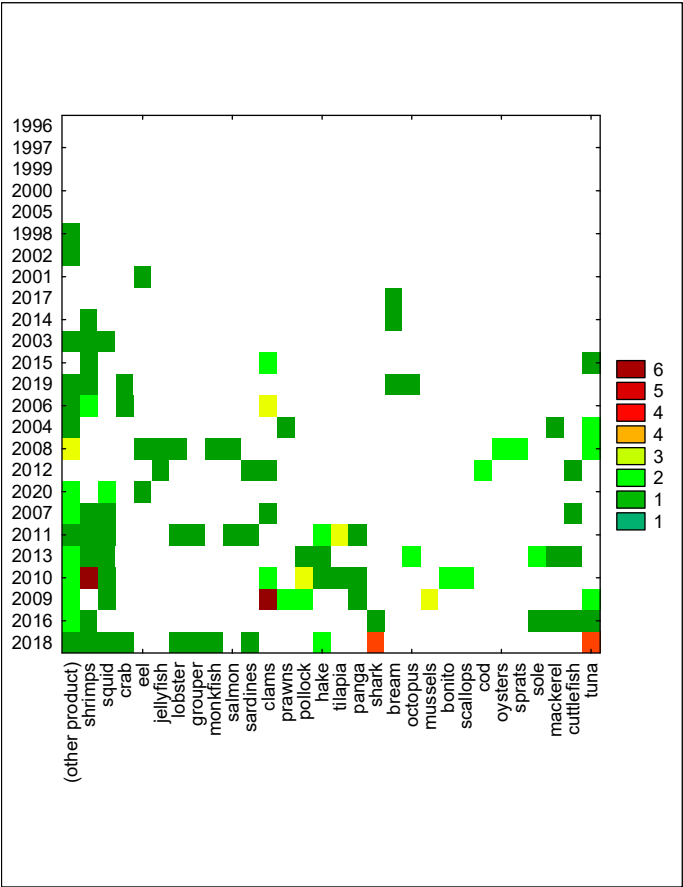


(f)

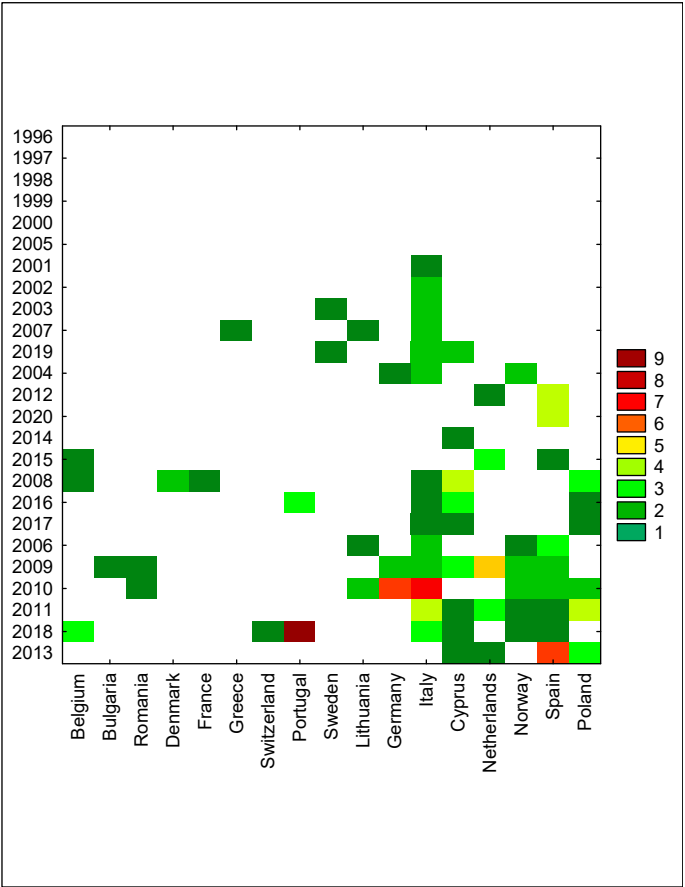


(g)

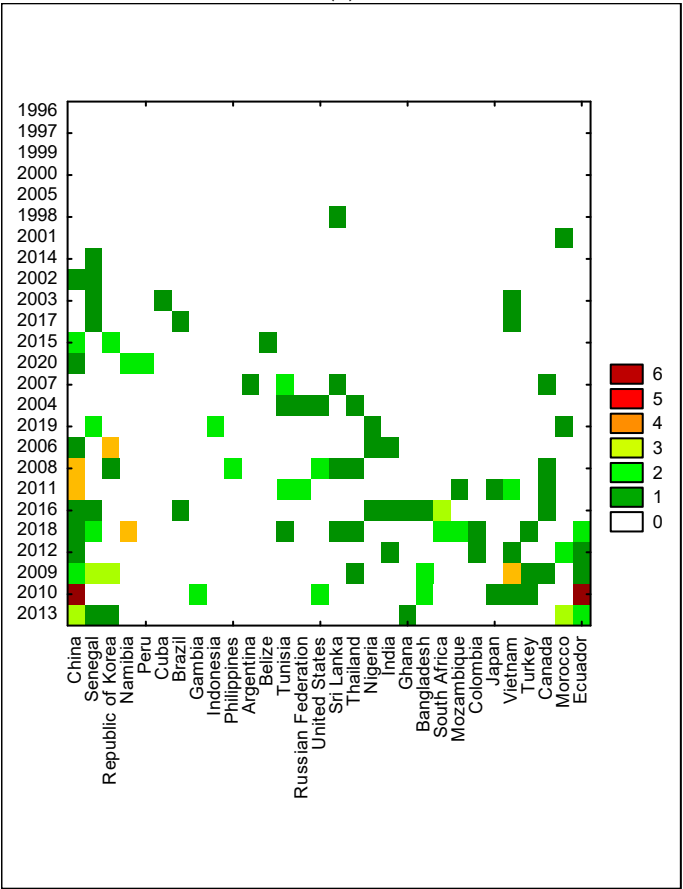
Figure S23. Results of two-way joining cluster analysis related to spoilage; (a) product; (b) notifying country; (c) country of origin; (d) notification type; (e) notification basis; (f) distribution status; (g) action taken.



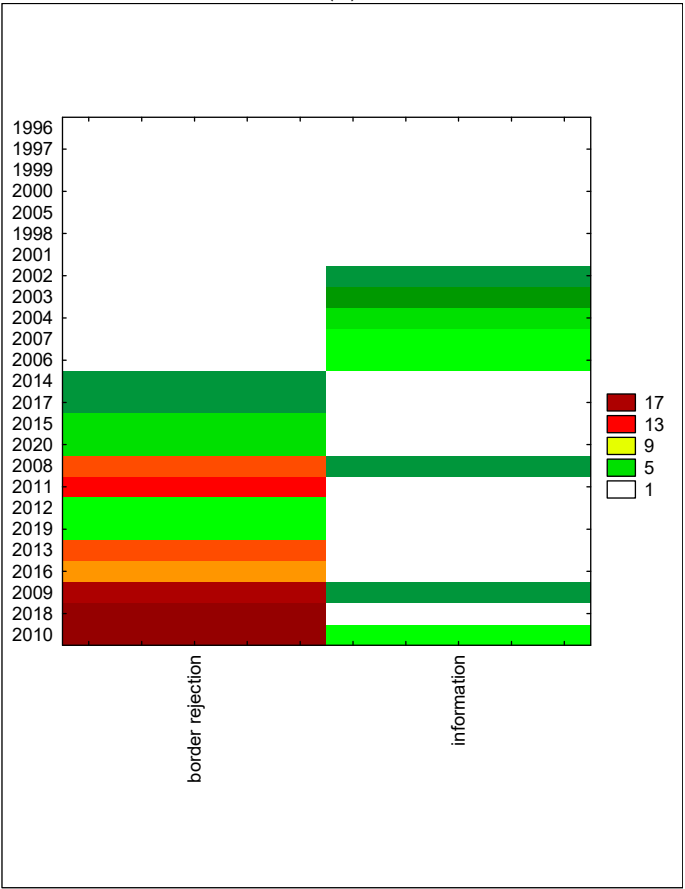
(a)



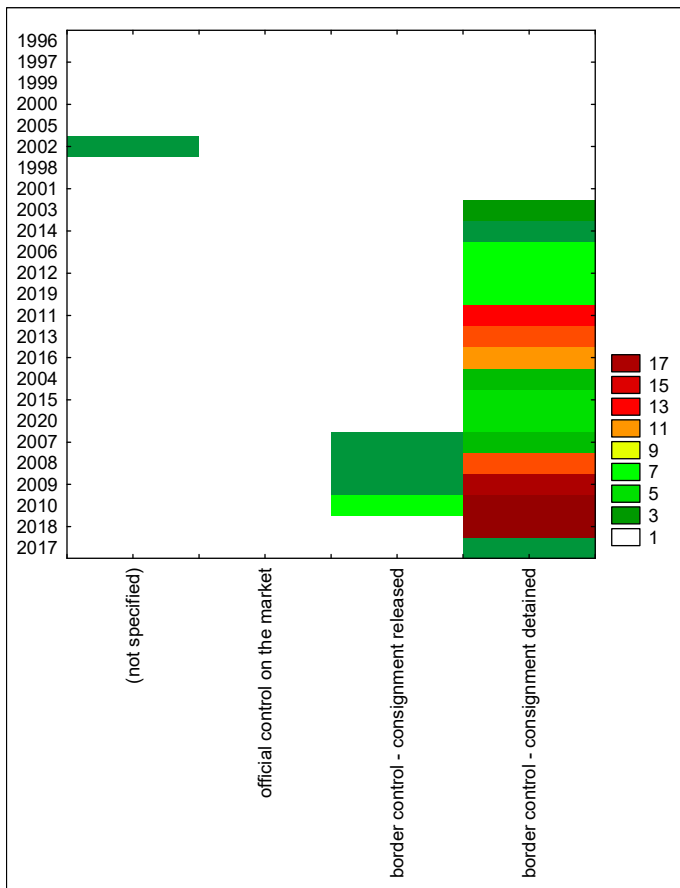
(b)



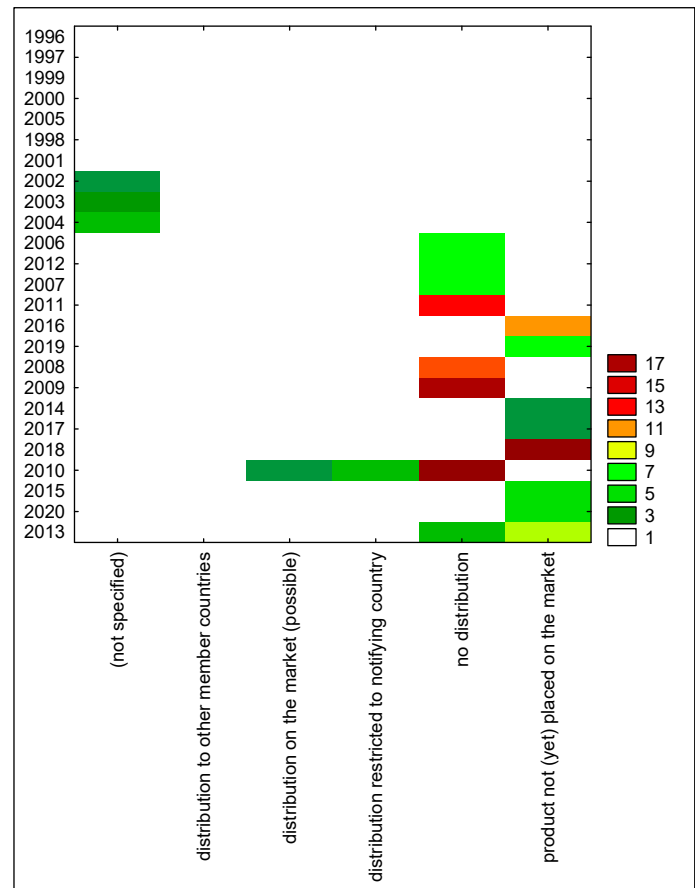
(c)



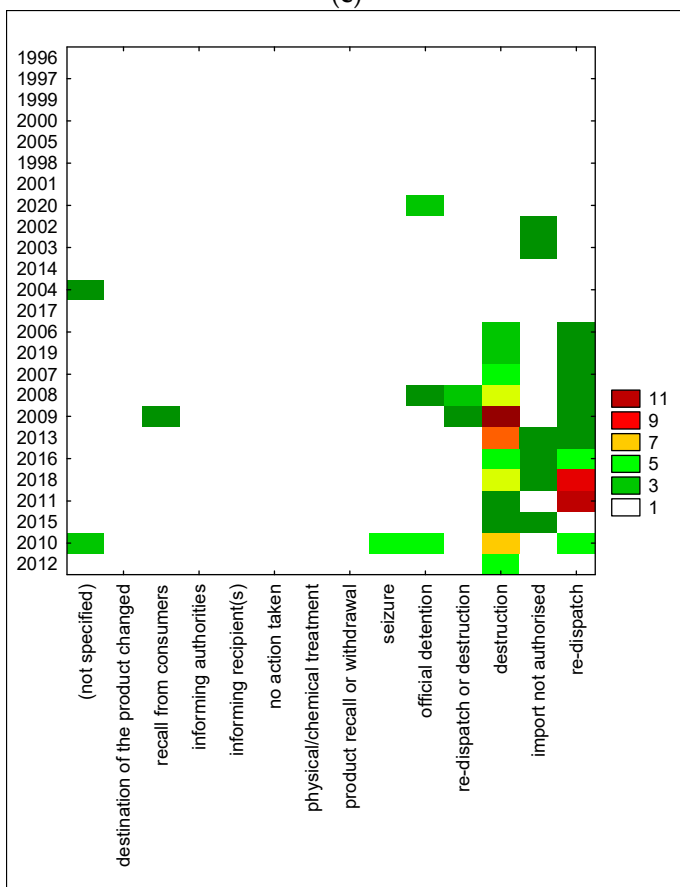
(d)



(e)

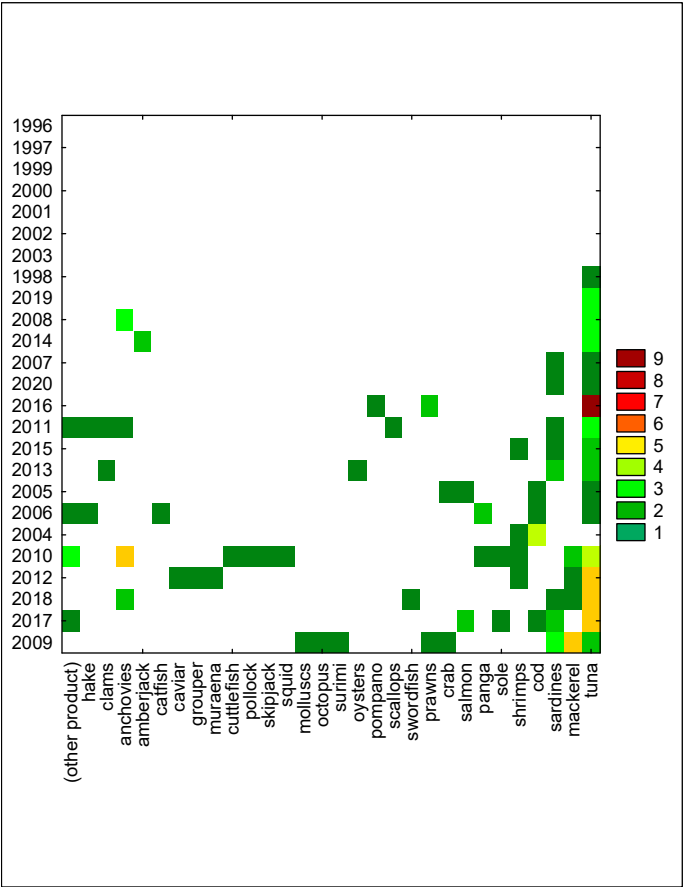


(f)

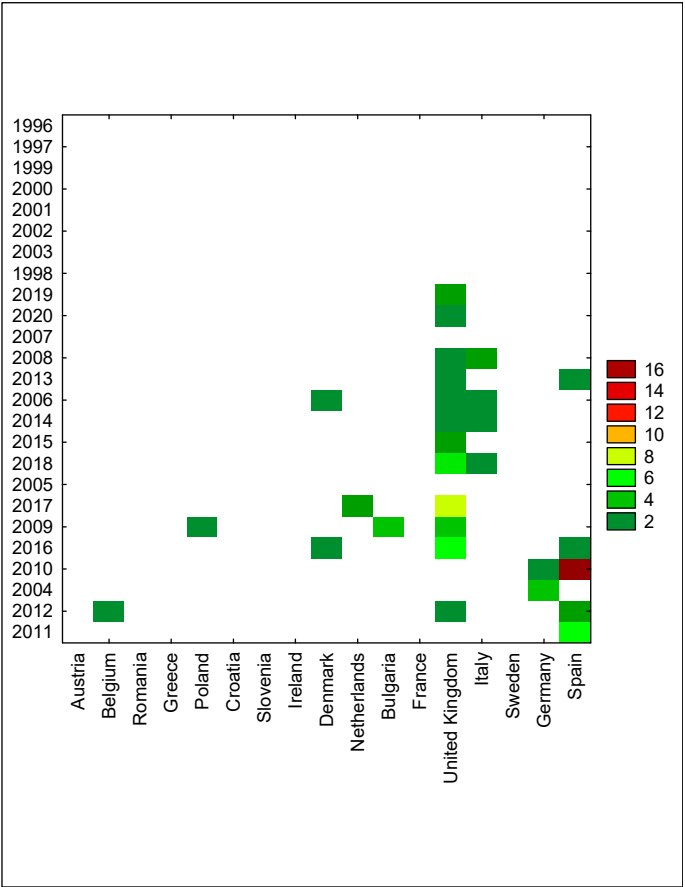


(g)

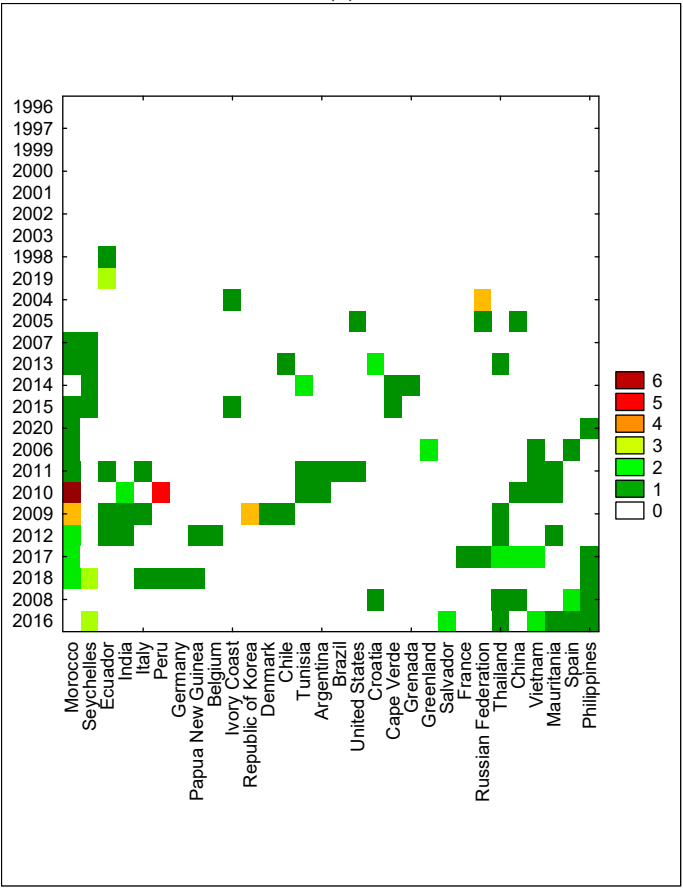
Figure S24. Results of two-way joining cluster analysis related to health certificate(s); (a) product; (b) notifying country; (c) country of origin; (d) notification type; (e) notification basis; (f) distribution status; (g) action taken.



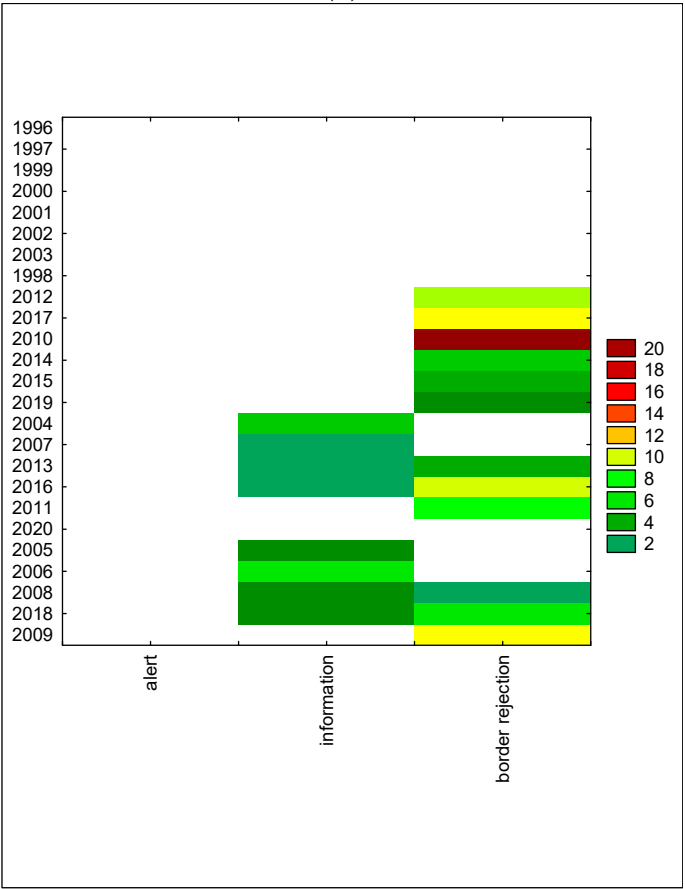
(a)



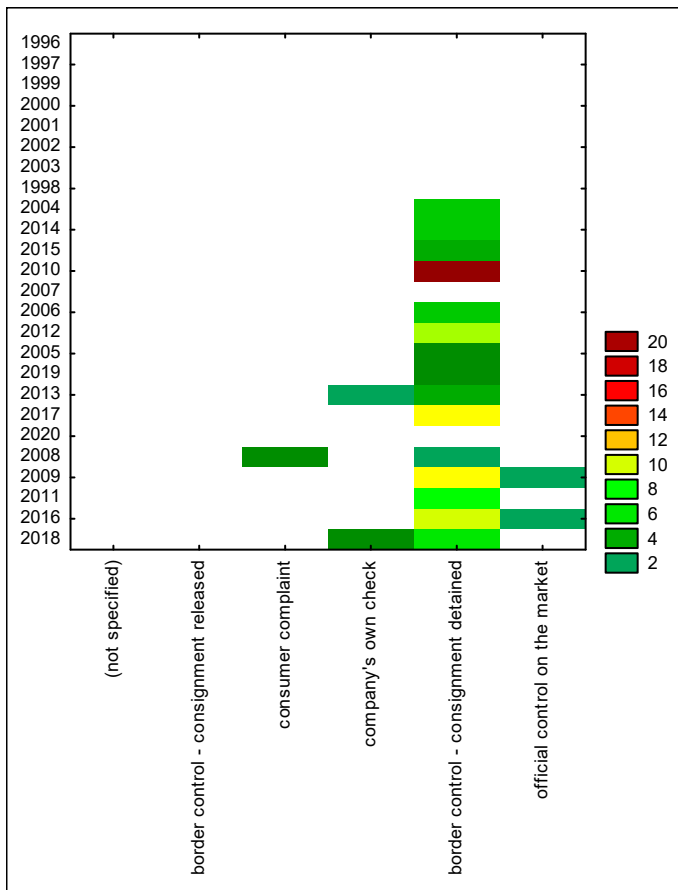
(b)



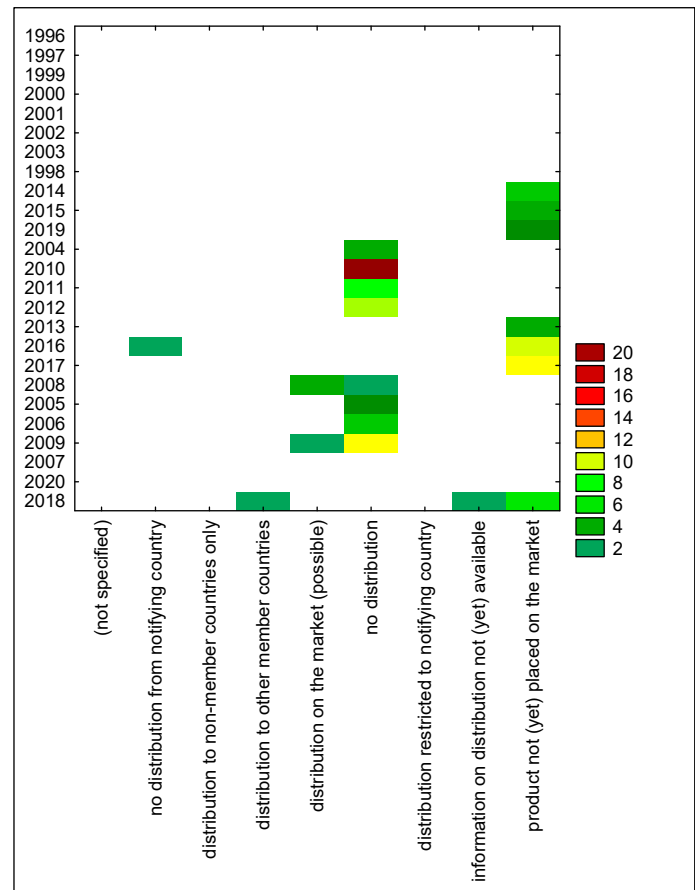
(c)



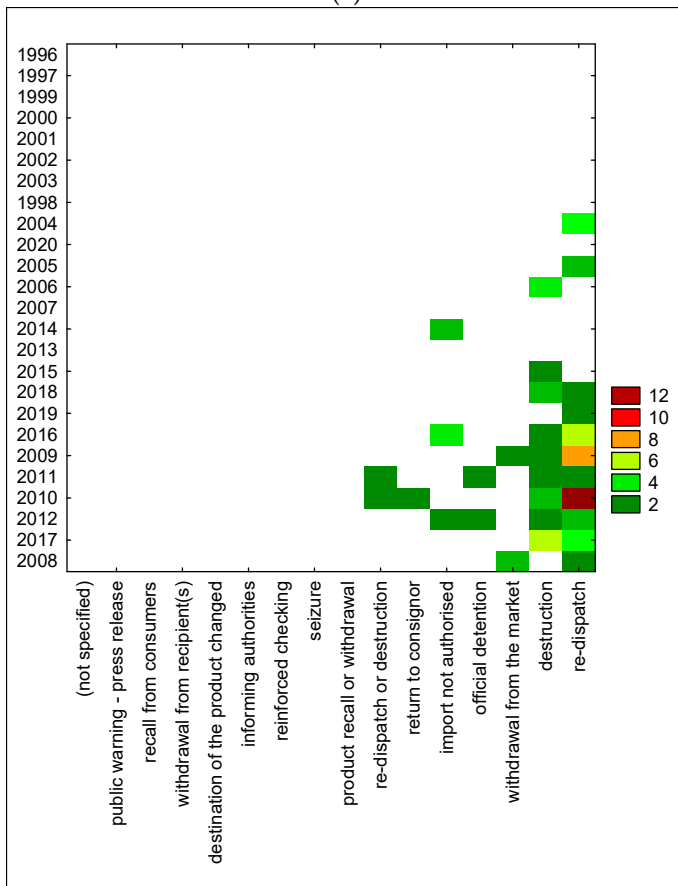
(d)



(e)

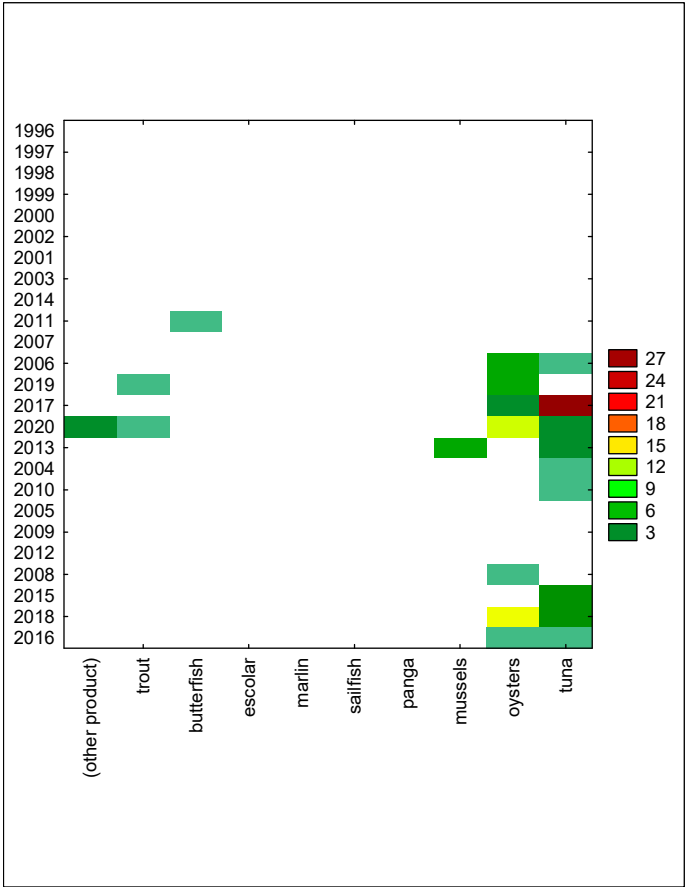


(f)

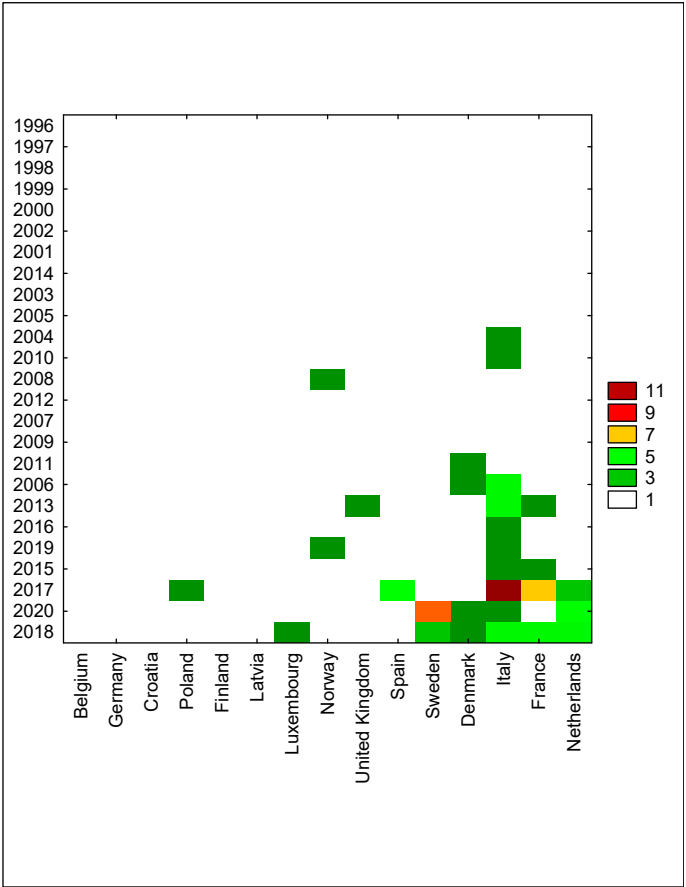


(g)

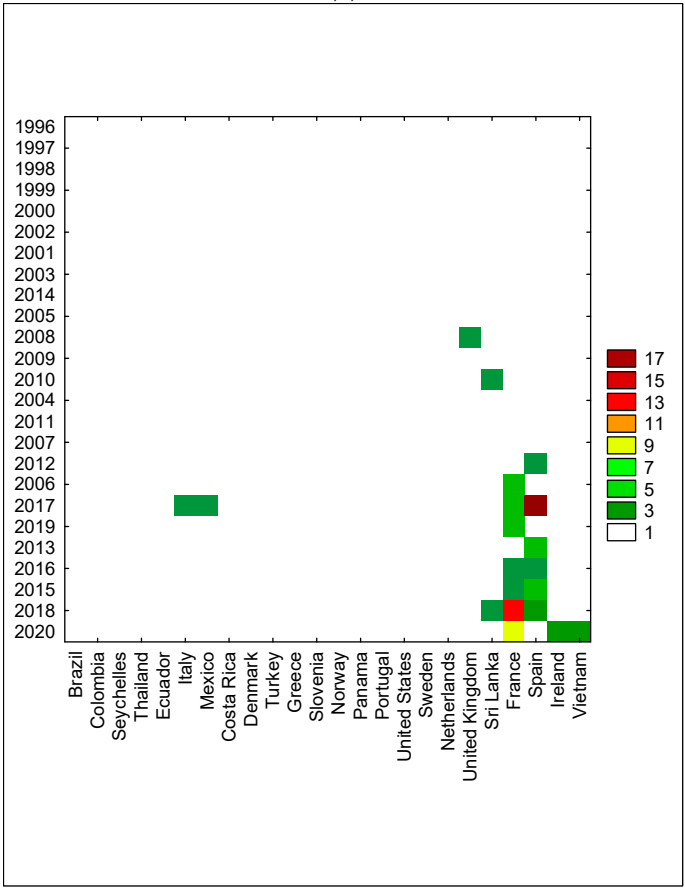
Figure S25. Results of two-way joining cluster analysis related to packaging; (a) product; (b) notifying country; (c) country of origin; (d) notification type; (e) notification basis; (f) distribution status; (g) action taken.



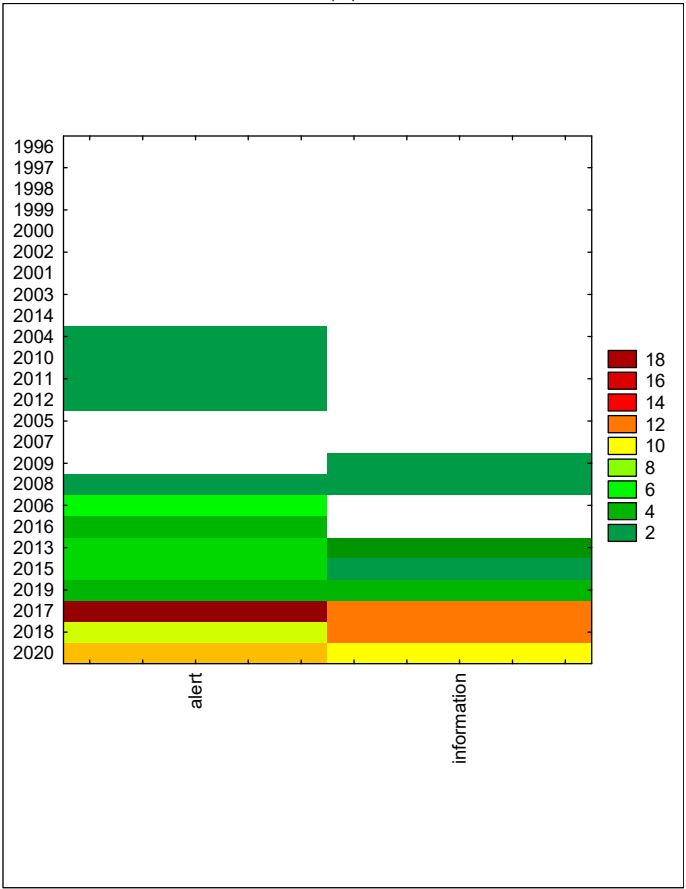
(a)



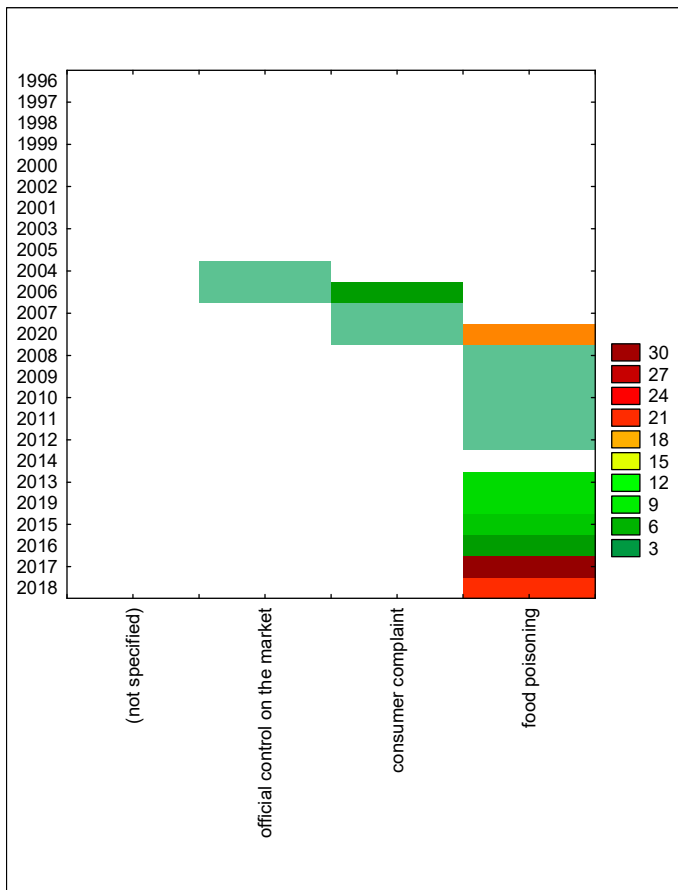
(b)



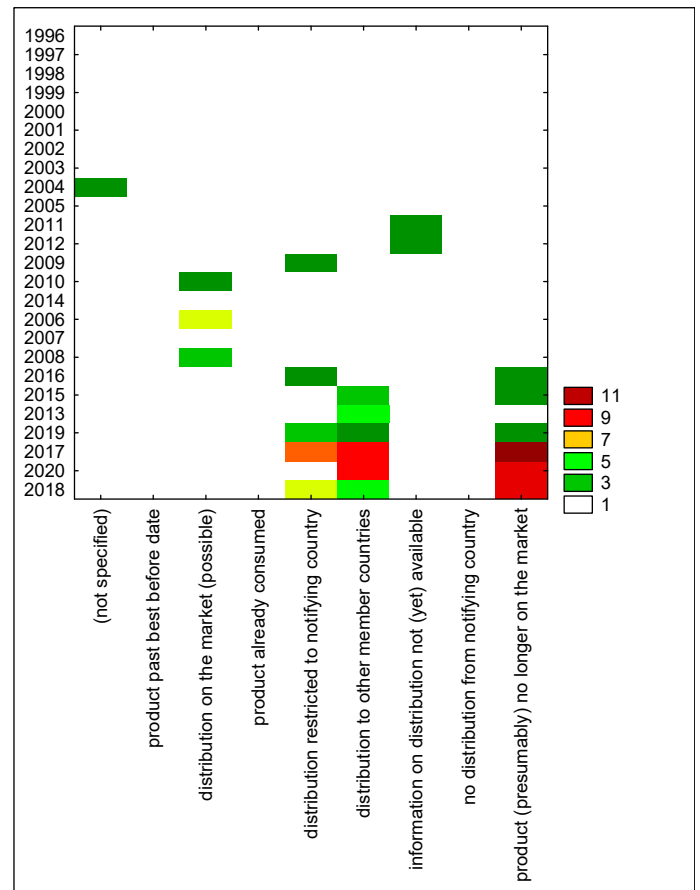
(c)



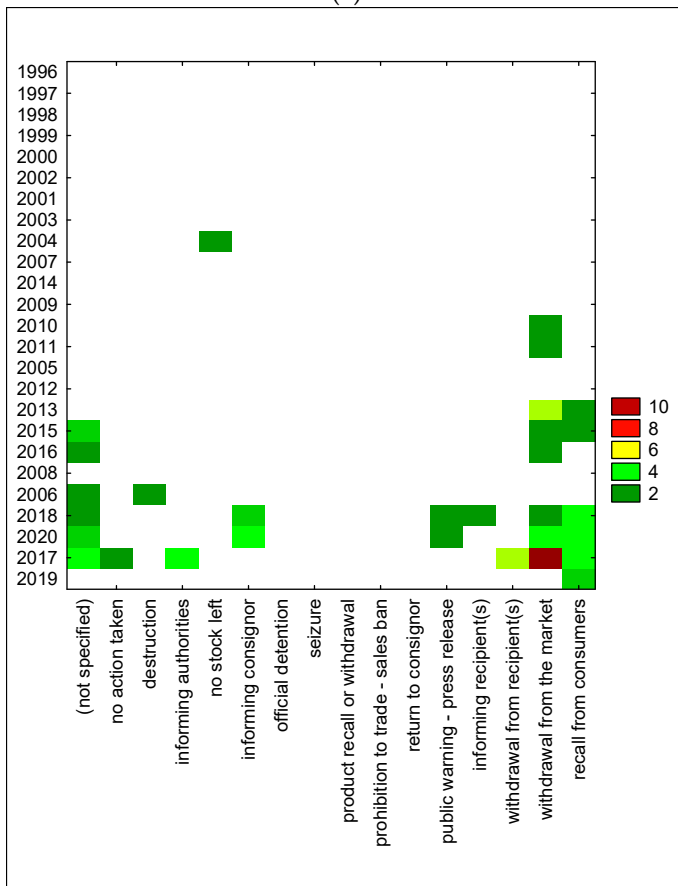
(d)



(e)



(f)



(g)

Figure S26. Results of two-way joining cluster analysis related to foodborne outbreak; (a) product; (b) notifying country; (c) country of origin; (d) notification type; (e) notification basis; (f) distribution status; (g) action taken.