

Latvian LED market surveillance

Radiated and conducted emissions

Legislation

- **Local rules** Nr. 208 “Iekārtu elektromagnētiskās saderības noteikumi” [spēkā ar 20.04.2016.]
- **EU directive** 2014/30/ES (2014. gada 26. februāris) par dalībvalstu tiesību aktu saskaņošanu attiecībā uz elektromagnētisko savietojamību (pārstrādāta versija).
- **Harmonised standard** LVS EN 55015:2013+A1:2015 “Elektroapgaismes ierīču un tamlīdzīgu iekārtu radiotraucējumu raksturlielumu robežvērtības un mērišana”

Latvijā elektromagnētiskās saderības tirgus uzraudzības iestāde ir **Patērētāju Tiesību Aizsardzības Centrs (PTAC)**

EU Market surveillance in 12 years

- **<https://ec.europa.eu/> RAPEX list 2005.- 2017.** are four noncompliant LED luminaries (2014/30/ES) from Latvia
- In 2011. 18 countries tested 168 luminaries (44,6%) were in compliance with EU requirements

Number assessed	CE marked	CE marked %	Overall CE marking compliance	Overall CE marking Compliance %
168	153	91	129	78

Country	Led lighting equipment tested	Led lighting equipment compliant with EMC directive 2004/108/EC %
China	91	54
Unknown	65	39
EU	12	7

Emission summary

Led lighting equipment tested	Led lighting equipment compliant	Compliant %
166	102	54

DoC compliance summary

Number checked	DoC available	DoC available %	DoC compliant	DoC compliant %
168	125	74	67	40

Official market surveillance in Latvia

Statistics in Latvia www.ptac.gov.lv 2007. to 2016. year

Only one case!!!

Lēmuma Nr.	Organizācija	Lēmuma izraksts	Pienemšanas datums	Pārsūdzēts
Nr.3-pap	SIA „LEXPITT”	Skaitl.	25.09.2014.	
Nr.4-pd	SIA „ERGOLUX”	Skaitl.	03.04.2014.	
Nr.1-pd	SIA „GANDRS”	Skaitl.	14.02.2014.	Skaitl.
Nr.5-pap	SIA „MP Latvija”	Skaitl.	25.09.2014.	
Nr.2-pap	SIA „RALLC”	Skaitl.	23.09.2015.	
Nr.2-pd	SIA „SUPER ACTION”	Skaitl.	07.03.2014.	
Nr.1-pap	SIA „SUPER ACTION”	Skaitl.	07.03.2014.	
Nr.4-pap	SIA „LIAD BALTJA”	Skaitl.	25.09.2014.	
Nr.10-pk	SIA "Vissveseliba.lv"	Skaitl.	01.04.2016.	
Nr.3-pd	SIA „DVATOLI”	Skaitl.	21.03.2014.	
8-pap	SIA „SAURIDA LATVIA”	Skaitl.	28.12.2013.	
Nr.10-pap	SIA RAKSENA	Skaitl.	02.10.2008.	
Nr.24 - pd	SIA BABY-VEST BALTIC	Skaitl.	08.10.2007.	

Latvian Electronic Equipment Testing Centre statistics

Year	LED bulbs	LED floodlight	Non compliant	Non compliant %
2010/2011	4	1	2	40
2012/2013	6	3	5	55,6
2014	13	6	6	31,6
2015	3	5	5	62,5
2016	0	12	12	100
kopā	26	27	30	56,6



Year	LED bulbs	Non compliant	Non compliant %
2010/2011	4	1	25
2012/2012	6	3	50,0
2014	13	6	46,2
2015	3	0	0
2016	0	0	0
kopā	26	10	38,46

Year	Floodlight	Non compliant	Non compliant %
2010/2011	1	1	100
2012/2012	3	2	66,7
2014	6	6	100
2015	5	5	100
2016	12	12	100
kopā	27	26	96,30

2016/2017 non government market surveillance

28 LED's tested

- Osram
- Philips
- Siteco
- Vizulo
- LEDuro

and other

LED luminaire type	Number of units
LED light bulbs	7
LED floodlights	11
LED facade lighting	2
LED street luminaires	5
Indoor built-in LED luminaires	3
Total	28

Price range EUR	LED luminaires pcs.
0-10	10
10-20	2
20-100	7
100-850	7

Nr.	Lietas Nr.	Kuri eādāts	Rāzotājs	Cena
LED Spuldzes				
1	ID_277.5	Saimniecības preču veikals Nr.1	EMOS	3,9 eur
2	ID_277.7	Saimniecības preču veikals Nr.1	ACME	4,5 eur
3	ID_277.6	Saimniecības preču veikals Nr.1	LEDURO	5,5 eur
4	ID_277.10	Saimniecības preču veikals Nr.1	EMOS	5,9 eur
5	ID_277.8	Saimniecības preču veikals Nr.1	LEDURO	6,15 eur
6	ID_277.11	Saimniecības preču veikals Nr.1	EMOS	7,2 eur
7	ID_277.9	Saimniecības preču veikals Nr.1	CANYON LED	9,26 eur
LED Prožektori				
8	ID_277.14	Interneta veikals Nr.1	OPTONICA	7,99 eur
9	ID_277.15	Interneta veikals Nr.1	LED OUTDOOR LIGHT	5,67 eur
10	ID_277.2	Saimniecības preču veikals Nr.2	BOUSVAL ETELECTRIQUE	7,9 eur
11	ID_277.12	Liels elektropreču vairumtirgotājs Nr.1	OSRAM	12 eur
12	ID_277.3	Saimniecības preču veikals Nr.1	PROLIGHT	15,8 eur
13	ID_277.1	Saimniecības preču veikals Nr.2	KOBI	21,55 eur
14	ID_277.4	Saimniecības preču veikals Nr.1	PROLIGHT	22,4 eur
15	ID_277.22	Interneta veikals Nr.2	V-TAC	23,6 eur
16	ID_277.23	Interneta veikals Nr.2	V-TAC	27,23 eur
17	ID_277.20	Liels elektropreču vairumtirgotājs Nr.2	LEDSOL LED ŠVIESTUVAS	47 eur
18	ID_277.21	Liels elektropreču vairumtirgotājs Nr.1	I-LED	98 eur
Fasādes gaismekļi				
19	ID_277.24	Liels elektropreču vairumtirgotājs Nr.2	LED WALL WASHER	125 eur
20	ID_277.13	Izbūvēts objekts Nr.1	GRIVEN	820 eur
Iela/Parks LED gaismekļi				
21	ID_277.19	Izbūvēts objekts Nr.2	ES-SYSTEM	148 eur
22	ID_277.16	Izbūvēts objekts Nr.3	VIZULO	203 eur
23	ID_277.17	Liels elektropreču vairumtirgotājs Nr.4	PHILIPS	230 eur
24	ID_277.18	Liels elektropreču vairumtirgotājs Nr.4	PHILIPS	245 eur
25	ID_277.28	Liels elektropreču vairumtirgotājs	SITECO	650 eur
Griestos iebūvējamie LED gaismekļi				
26	ID_277.25	Liels elektropreču vairumtirgotājs Nr.1	OSRAM	23 eur
27	ID_277.26	Liels elektropreču vairumtirgotājs Nr.3	LENA LIGHTING S.A; PRACTICLINE	32 eur
28	ID_277.27	Liels elektropreču vairumtirgotājs Nr.2	INTRA LIGHTING	37 eur



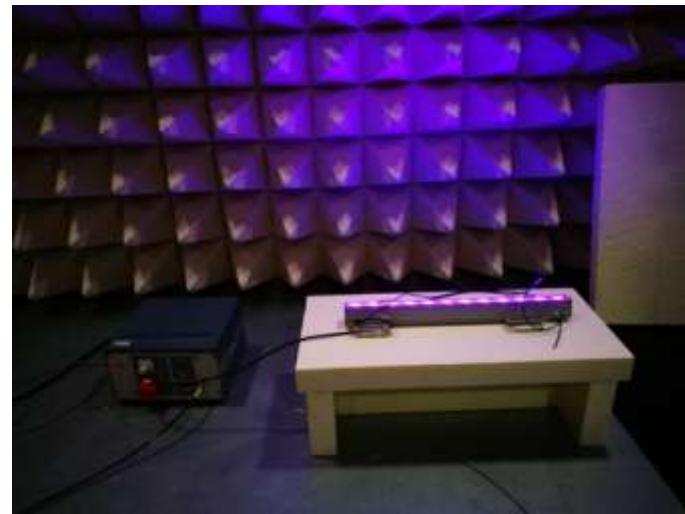
LED bulb (ID_227.6 Leduro)



LED floodlight (ID_277.2 Bousvatelectrique)



LED park luminary (ID_277.19 ES System)

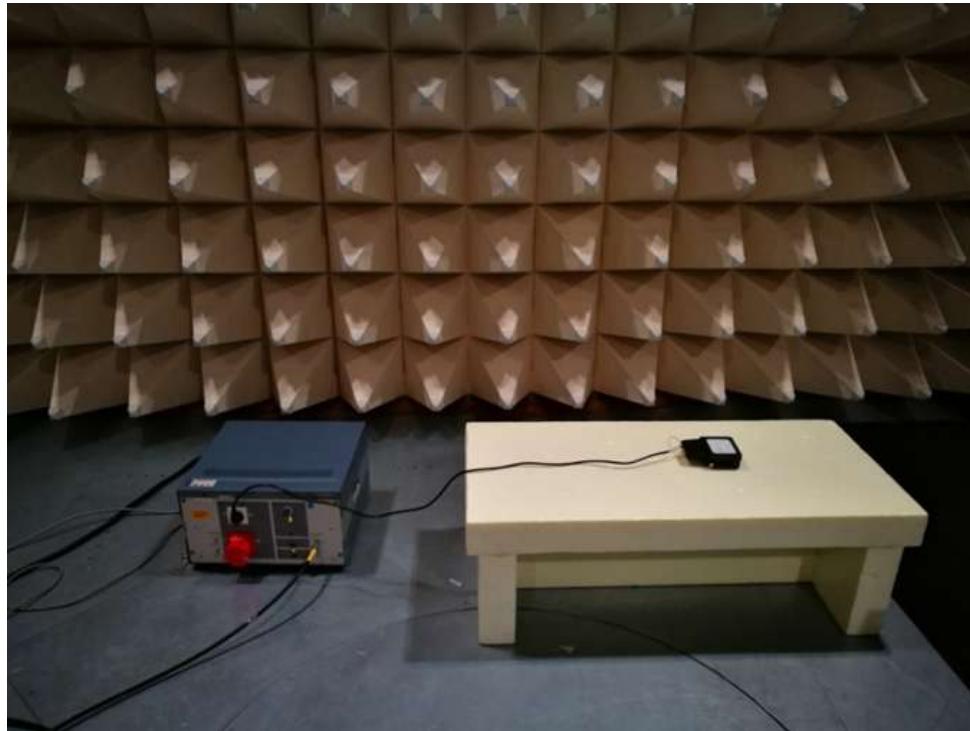


LED facade luminary (ID_277.13 Griven)

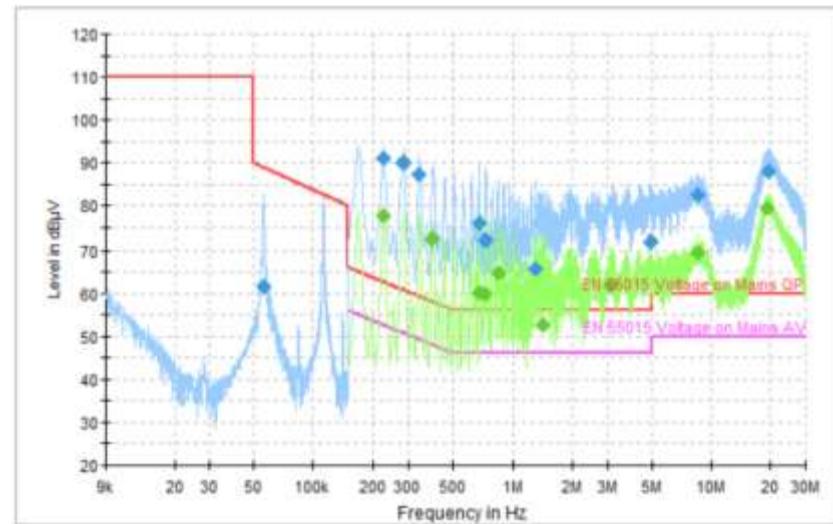
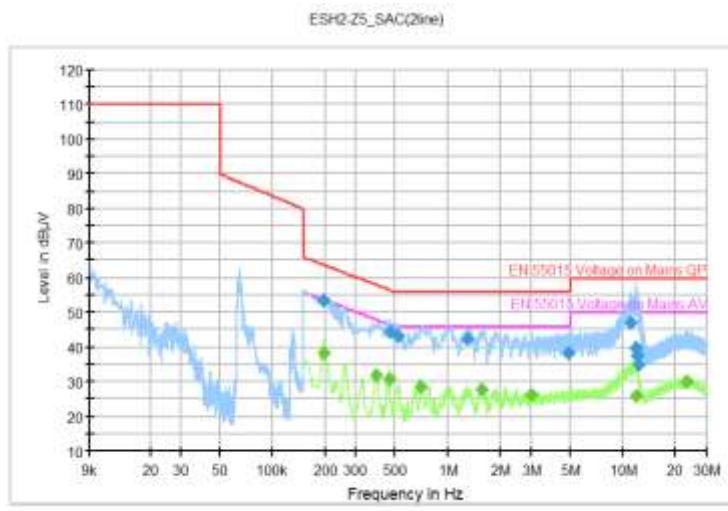
EMC tests

Carried out in Latvian Electronic Equipment Testing Centre

- Conducted emissions(150kHz – 30MHz)
- Radiated emissions(30MHz – 300MHz)



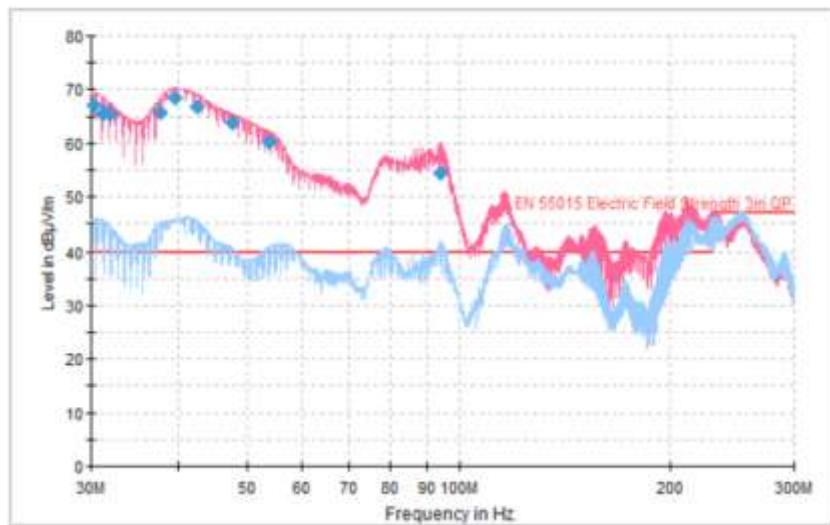
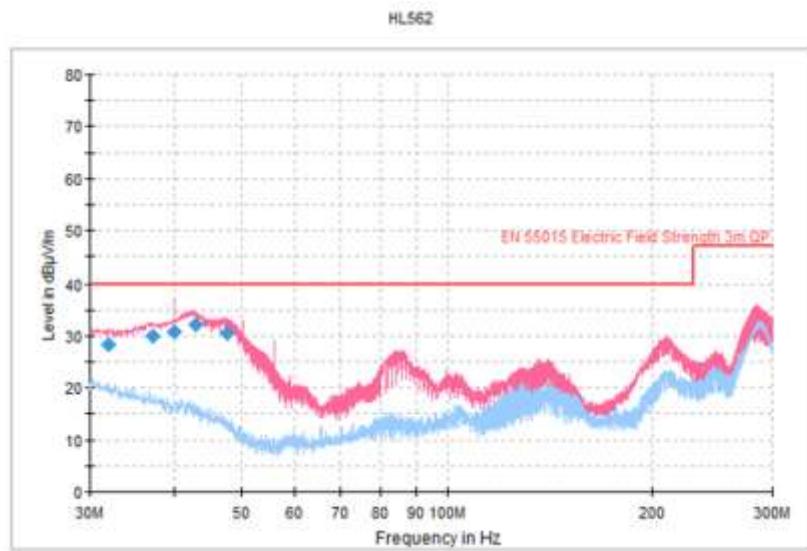
Conducted emission results nr. ID_277.12 and ID_277.2



Radiated emissions



Radiated emission result nr. ID_277.12 and ID_277.2



2016/2017 non government market surveillance results

LEITC laboratory tested LED luminaires Pcs	Non compliance according LVS EN 55015:2013+A1:2015 Pcs	Non compliance according LVS EN 55015:2013+A1:2015 %
28	8	28.6

LED luminaire type	Number of units	Non compliance according LVS EN 55015:2013+A1:2015 Pcs	Non compliance according LVS EN 55015:2013+A1:2015 %
LED light bulbs	7	0	0
LED floodlights	11	5	45.5
LED facade lighting	2	2	100
LED street luminaires	5	1	20
Indoor built-in LED luminaires	3	0	0

2016/2017 non government market surveillance results

Locations type	Non-compliance according LVS EN 55015:2013+A1:2015 Pcs	Non-compliance according LVS EN 55015:2013+A1:2015 %
Household goods stores	1	9
Online shop	2	50
Large electrical goods wholesaler	4	40
Construction object	1	33

2016/2017 non government market surveillance results

Price range EUR	LED luminaires pcs	Non-compliance according LVS EN 55015:2013+A1:20 15 Pcs	Non-compliance according LVS EN 55015:2013+A1:20 15 %
0-10	10	3	30
10-20	2	0	0
20-100	7	2	28.5
100-850	7	3	42.8

Recommendations to government institutions to improve situation

1. Increase fine's
2. For government projects require accredited EMC testing
3. Increase market surveillance intensity
4. Educate customs personnel
5. Improve documentation inspection
6. Official reports on noncompliant cases
7. Educate importers, resellers, manufacturers

Total

Non official 2016/2017

Fail 28,6%

Latvian Electronic Equipment Testing Centre 2010/2016

Fail 56,6%

EU statistics at 2011

Fail 44,6%.

Paldies!