Center for Testing and European Certification

LABORATORY FOR TESTING OF MACHINERY, EQUIPMENT AND DEVICES

CENTER FOR TESTING AND EUROPEAN CERTIFICATION LTD

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ИА "БСА" Рег.№ 101 ЛИ
ЛАБОРАТОРИЯ ЗА ИЗПИТВАНЕ

Accredited certificate № 101 ЛИ / 24.11.2014 Valid until: 24.11.2018 of EA BAS, according EN ISO/IEC 17025

TEST REPORT

№ 2emc-15-120/15.07.2015

OBJECT TO BE TESTED: Line preamplifier - Model: Dionysos , Serial № 424201 ;
(name of obejct to be tested , type, model, quantity, type and other)

APPLICANT FOR TEST: "Thrax Audio" Ltd. , Bulgaria , 1766 Sofia, 251 Okolovrasten pat, Delta Center , Tel.:+359 2 988 95 55, office@thraxaudio.com ;
Application № 120/ 09.06.2015
(name of the firm – applicant, address, telephone, number and date of the test application)

METHOD OF TEST :
BDS EN 55013:2013 Sound and television broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement
(*number and name of the standards)*

MANIFACTURER: "Thrax Audio" Ltd. , Bulgaria , 1766 Sofia, 251 Okolovrasten pat, Delta Center , Tel.:+359 2 988 95 55, office@thraxaudio.com ;
(*firm, trade mark, address)*

DECLARED TECHNICAL DATA:
Rated voltage – 115/230 VAC
Rated frequency – 50/60 Hz
Class I

DATE OF TEST PERFORMANCE: 03.07.2015

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LABORATORY CHIEF: .....
/ T. Hristov /

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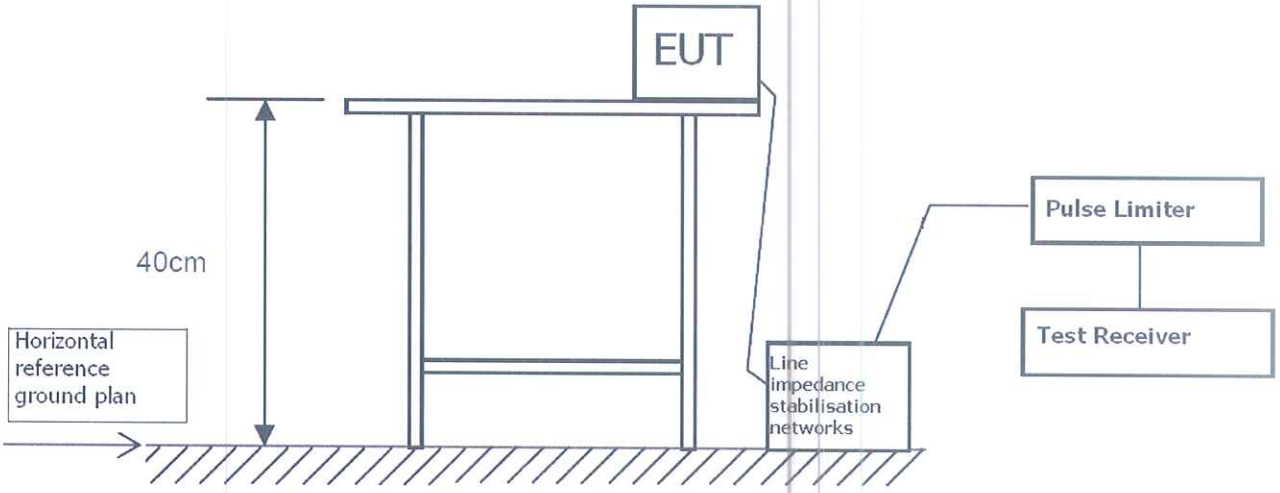
BDS EN 55013, cl.5.3 – Disturbance voltage at the mains terminals in the frequency range 150 kHz to 30 MHz

BDS EN 55013, cl. 4.2 – Disturbance voltage at the mains terminals Table 1

Ambient temperature: 24 °C ; Relative Humidity: 44%.



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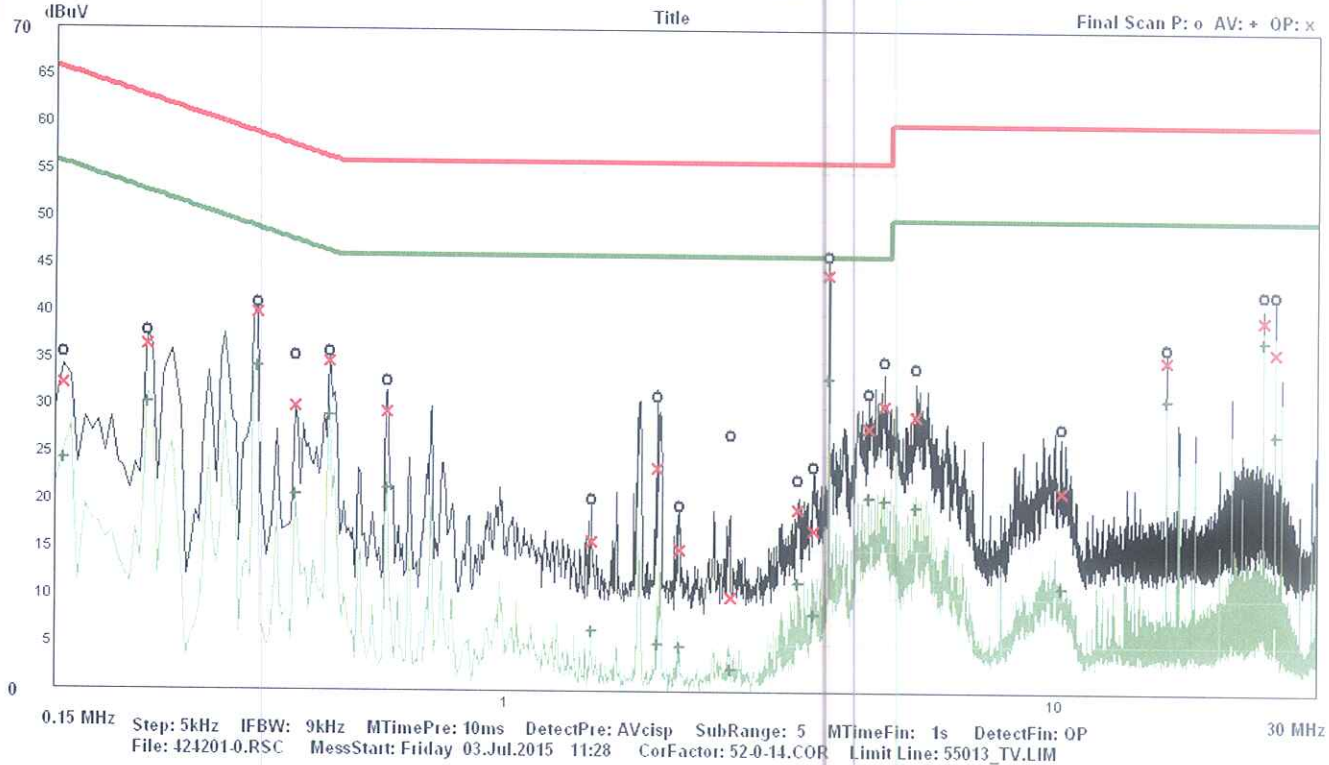
RESULTS OF MEASUREMENT :

Frequency	Terminal disturbance voltages, mains line – N					
	Quasi peak - QP			Average - AV		
	Measuring	Margin	Limit	Measuring	Margin	Limit
MHz	**dB(μV)**	**dB(μV)**	**dB(μV)**	**dB(μV)**	**dB(μV)**	**dB(μV)**
0,155	32,22	33,50	65,72	24,35	31,37	55,72
0,220	36,46	26,35	62,81	30,28	22,53	52,81
0,350	39,96	19,00	58,96	34,19	14,77	48,96
0,410	30,06	27,58	57,64	20,75	26,89	47,64
0,475	34,86	21,56	56,42	29,13	17,29	46,42
0,605	29,55	26,45	56,00	21,46	24,54	46,00
1,875	23,62	32,38	56,00	5,06	40,94	46,00
3,385	19,33	36,67	56,00	11,61	34,39	46,00
3,620	17,16	38,84	56,00	8,24	37,76	46,00
3,855	44,10	11,90	56,00	33,12	12,88	46,00
4,555	27,91	28,09	56,00	20,60	25,40	46,00
4,870	30,35	25,65	56,00	20,28	25,72	46,00
5,570	29,29	30,71	60,00	19,68	30,32	50,00
15,945	35,15	24,85	60,00	31,07	18,93	50,00
23,920	39,59	20,41	60,00	37,27	12,73	50,00
25,165	36,24	23,76	60,00	27,48	22,52	50,00

Drawing of terminal disturbance voltages, mains line – N



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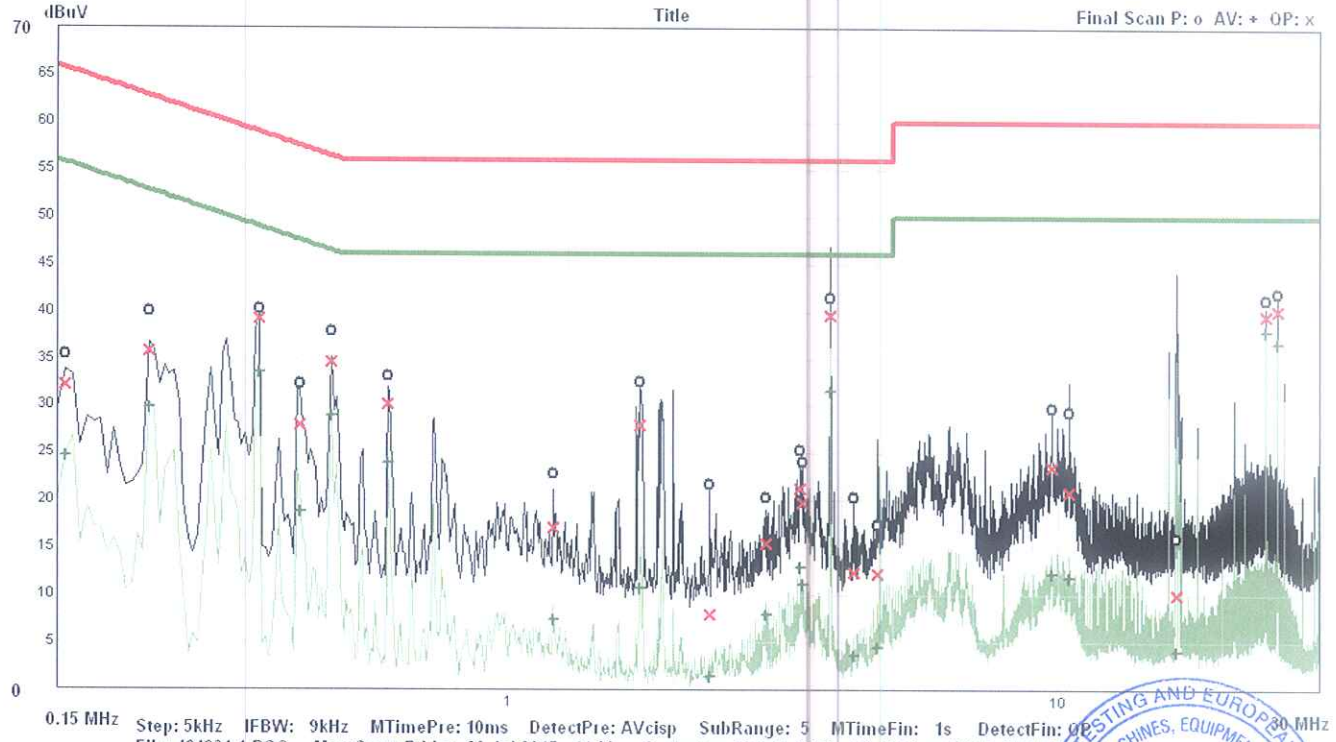
Frequency	Terminal disturbance voltages, mains line - L					
	Quasi peak - QP			Average - AV		
	Measuring	Margin	Limit	Measuring	Margin	Limit
MHz	dB(μV)	dB(μV)	dB(μV)	dB(μV)	dB(μV)	dB(μV)
0,155	32,12	33,60	65,72	24,67	31,05	55,72
0,220	35,82	26,99	62,81	29,80	23,01	52,81
0,350	39,31	19,65	58,96	33,57	15,39	48,96
0,415	28,04	29,50	57,54	18,77	28,77	47,54
0,475	34,60	21,82	56,42	28,90	17,52	46,42
0,600	30,14	25,86	56,00	23,92	22,08	46,00
1,205	17,10	38,90	56,00	7,44	38,56	46,00
1,735	27,93	28,07	56,00	10,76	35,24	46,00
2,940	15,47	40,53	56,00	7,99	38,01	46,00
3,385	21,36	34,64	56,00	12,94	33,06	46,00
3,420	19,78	36,22	56,00	11,19	34,81	46,00
3,850	39,68	16,32	56,00	31,60	14,40	46,00
9,735	23,46	36,54	60,00	12,29	37,71	50,00
10,475	20,87	39,13	60,00	11,81	38,19	50,00
23,920	39,68	20,32	60,00	38,03	11,97	50,00
25,165	40,25	19,75	60,00	36,76	13,24	50,00

Drawing of terminal disturbance voltages, mains line – L



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USED TECHNICAL EQUIPMENTS:

No	Appliance	Type	Manufacturer	Identity №	Last calibration date
1.	Digital multimeter	UNIGOR 390	LEM Austria	PI 3288	19.03.2014
2.	Thermometer-higrometer	177-H1	TESTO Germany	01320300/902	17.04.2015
3.	EMI – receiver 9 kHz ÷ 1000 MHz	SCR 3501	Schaffner Electrotest GmbH, Germany	522	26.06.2014
4.	Line impedance stabilisation networks	NNB 52	TESEQ Switzerland	26326	02.07.2014

TEST PERFORMER: 1. .....
/ T. Hristov /

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2. .....
/D. Chavalinov /

CHIEF LABORATORY : .....
/ T. Hristov /

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