

EMI Sweep(1)

1 / 1

Radiated Emission

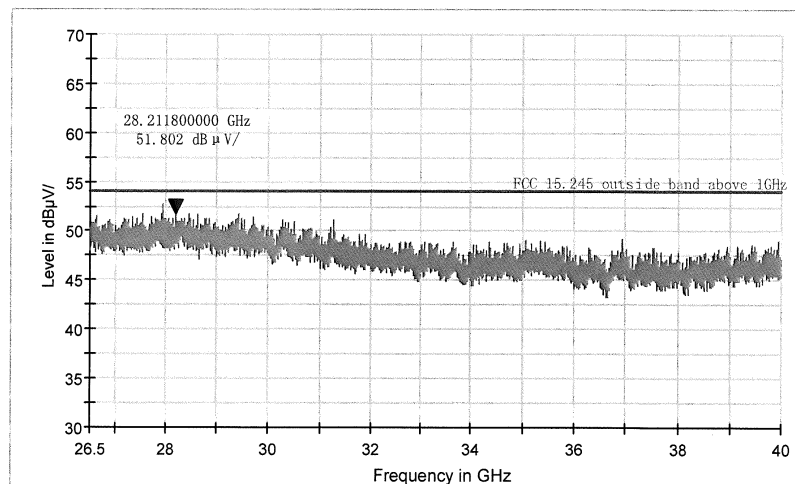
EUT Information

EUT Model Name: e235
Operation mode: TX 5736MHz
Test Voltage: AC 120V/60Hz
Comment: Antenna B

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Horizontal
Operator Name:
Comment:

Copy of FCC Electric Field Strength 26.5-40GHz



EMI Sweep(1)

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Radiated Emission

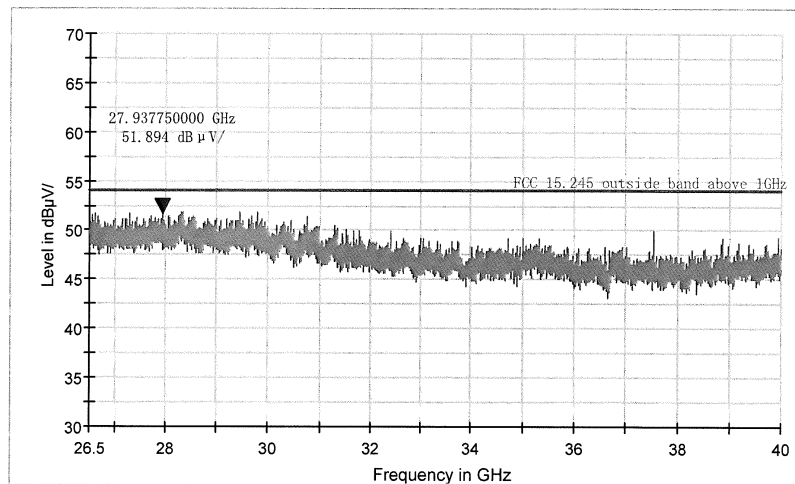
EUT Information

EUT Model Name: e235
Operation mode: TX 5736MHz
Test Voltage: AC 120V/60Hz
Comment: Antenna B

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Vertical
Operator Name:
Comment:

Copy of FCC Electric Field Strength 26.5-40GHz



EMI Sweep(1)

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Radiated Emission

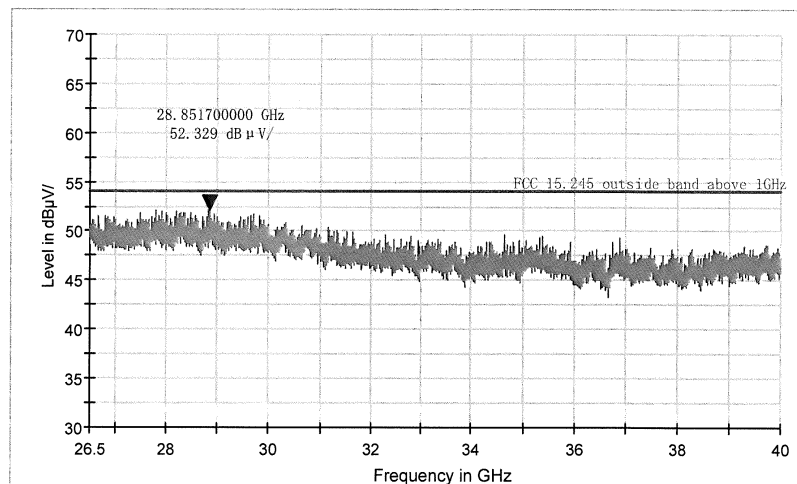
EUT Information

EUT Model Name: e235
Operation mode: TX 5762MHz
Test Voltage: AC 120V/60Hz
Comment: Antenna B

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Horizontal
Operator Name:
Comment:

Copy of FCC Electric Field Strength 26.5-40GHz



EMI Sweep(1)

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Radiated Emission

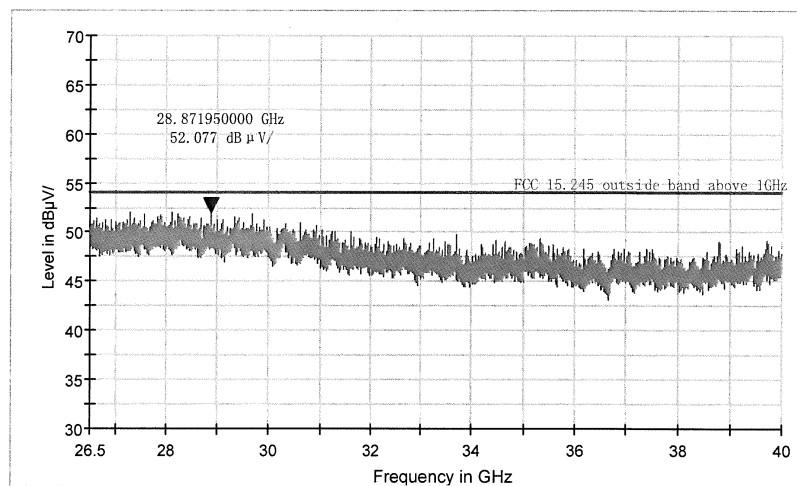
EUT Information

EUT Model Name: e235
Operation mode: TX 5762MHz
Test Voltage: AC 120V/60Hz
Comment: Antenna B

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Vertical
Operator Name:
Comment:

Copy of FCC Electric Field Strength 26.5-40GHz



EMI Sweep(1)

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Radiated Emission

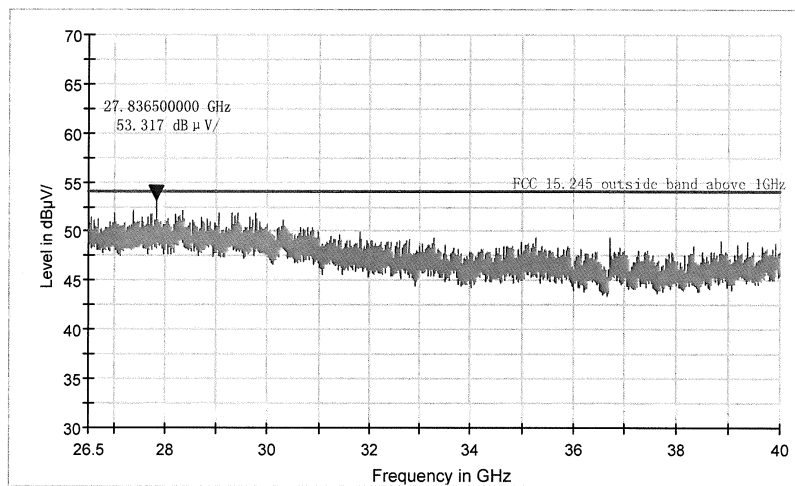
EUT Information

EUT Model Name: e235
Operation mode: TX 5814MHz
Test Voltage: AC 120V/60Hz
Comment: Antenna B

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Horizontal
Operator Name:
Comment:

Copy of FCC Electric Field Strength 26.5-40GHz



EMI Sweep(1)

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Radiated Emission

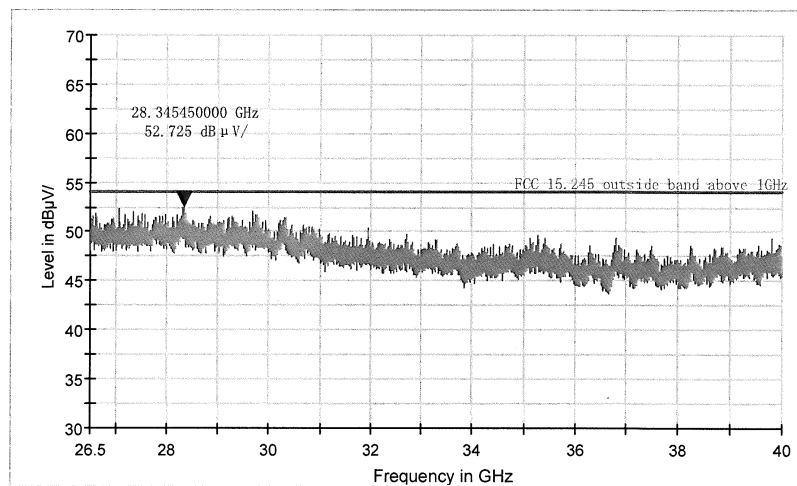
EUT Information

EUT Model Name: e235
Operation mode: TX 5814MHz
Test Voltage: AC 120V/60Hz
Comment: Antenna B

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Vertical
Operator Name:
Comment:

Copy of FCC Electric Field Strength 26.5-40GHz



Prüfbericht - Nr.: 17058162 001
 Test Report No.

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ACCURATE TECHNOLOGY CO., LTD.

 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

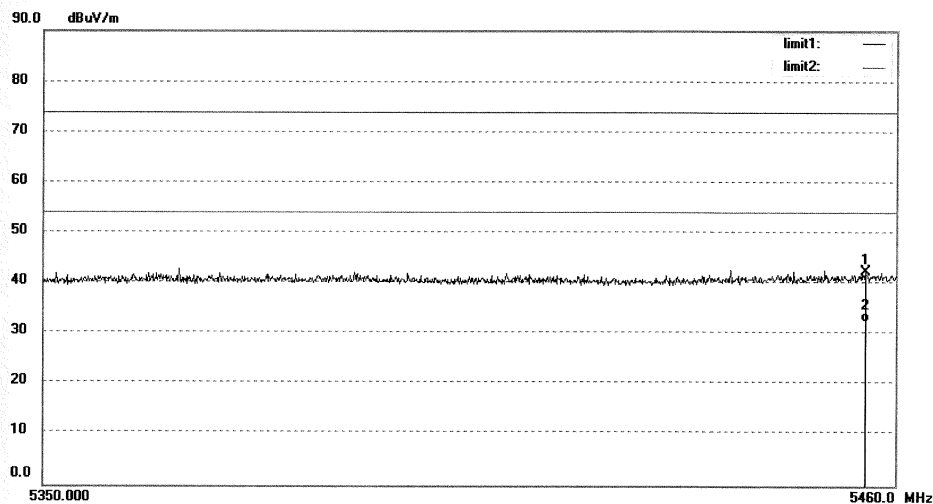
Tel:+86-0755-26503290

Fax:+86-0755-26503396

 Job No.: lgwade #641
 Standard: FCC (Band Edge)
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 23 C / 48 %
 EUT: Multimedia Speaker
 Mode: TX 5736MHz
 Model: e235
 Manufacturer: EDIFIER

 Polarization: Horizontal
 Power Source: AC 120V/60Hz
 Date: 2016/01/23
 Time:
 Engineer Signature: LGWADE
 Distance: 3m

Note: Antenna B



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5456.040	41.48	0.97	42.45	74.00	-31.55	peak			
2	5456.040	31.59	0.97	32.56	54.00	-21.44	AVG			

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ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

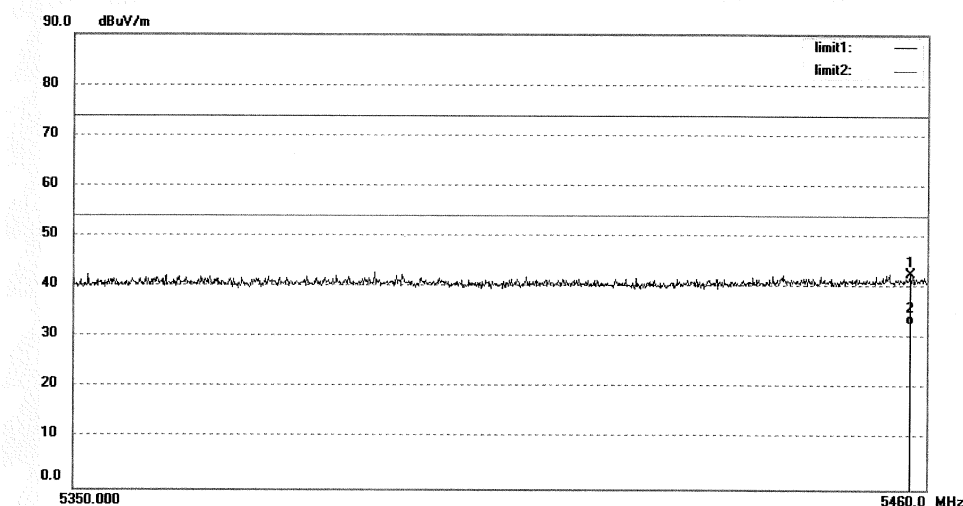
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #640
Standard: FCC (Band Edge)
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Multimedia Speaker
Mode: TX 5736MHz
Model: e235
Manufacturer: EDIFIER

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 2016/01/23
Time:
Engineer Signature: LGWADE
Distance: 3m

Note: Antenna B



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5457.800	41.61	0.97	42.58	74.00	-31.42	peak			
2	5457.800	31.79	0.97	32.76	54.00	-21.24	AVG			

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ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

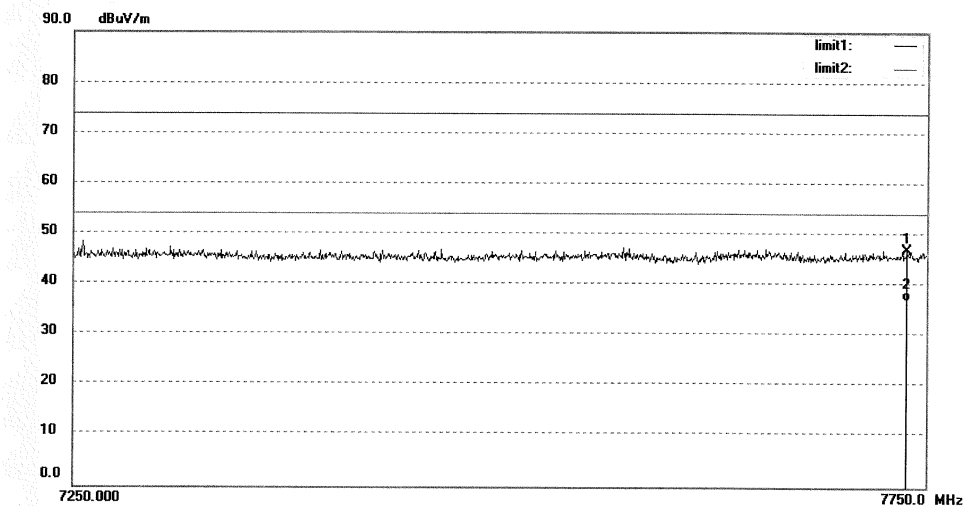
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: lgwade #646
Standard: FCC (Band Edge)
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Multimedia Speaker
Mode: TX 5814MHz
Model: e235
Manufacturer: EDIFIER

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 2016/01/23
Time:
Engineer Signature: LGWADE
Distance: 3m

Note: Antenna B



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	7738.500	41.39	5.43	46.82	74.00	-27.18	peak			
2	7738.500	31.53	5.43	36.96	54.00	-17.04	AVG			

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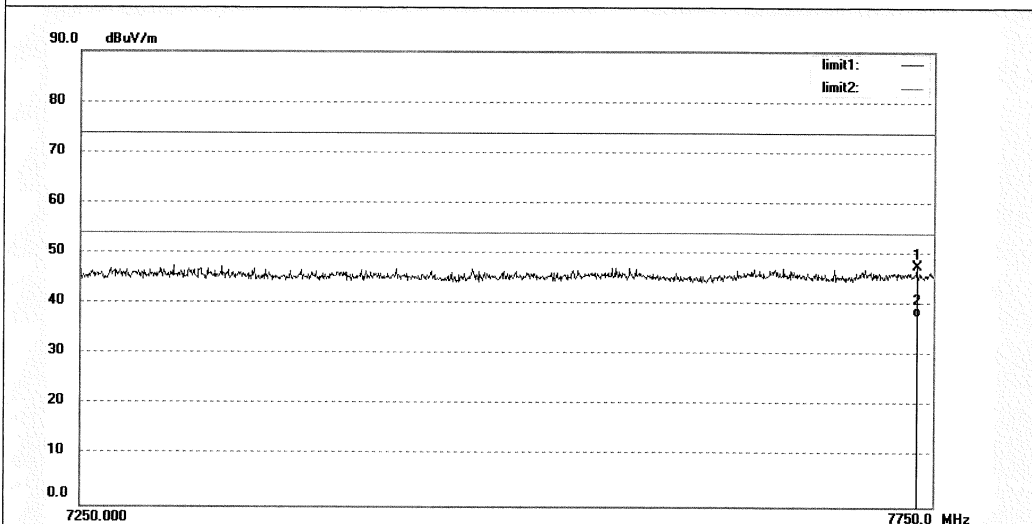
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #647	Polarization: Vertical
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2016/01/23
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Multimedia Speaker	Engineer Signature: LGWADE
Mode: TX 5814MHz	Distance: 3m
Model: e235	
Manufacturer: EDIFIER	
Note: Antenna B	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	7740.000	42.18	5.43	47.61	74.00	-26.39	peak			
2	7740.000	32.35	5.43	37.78	54.00	-16.22	AVG			

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5.1.16 Conducted emissions**RESULT:****Pass**

Date of testing	:	2016-01-18
Test standard	:	FCC Part 15.107 (a) FCC Part 15.207 RSS-Gen Clause 8.8 ICES-003 Issue 6 January 2016
Basic standard	:	ANSI C63.4: 2014
Frequency range	:	0.15 – 30MHz
Limits	:	FCC Part 15.207 Table 3 of RSS-Gen
Kind of test site	:	Shield room

Test setup

Input Voltage	:	AC 120V, 60Hz
Operation Mode	:	A, B, C
Earthing	:	Not Connected
Ambient temperature	:	25°C
Relative humidity	:	52%
Atmospheric pressure	:	101kPa

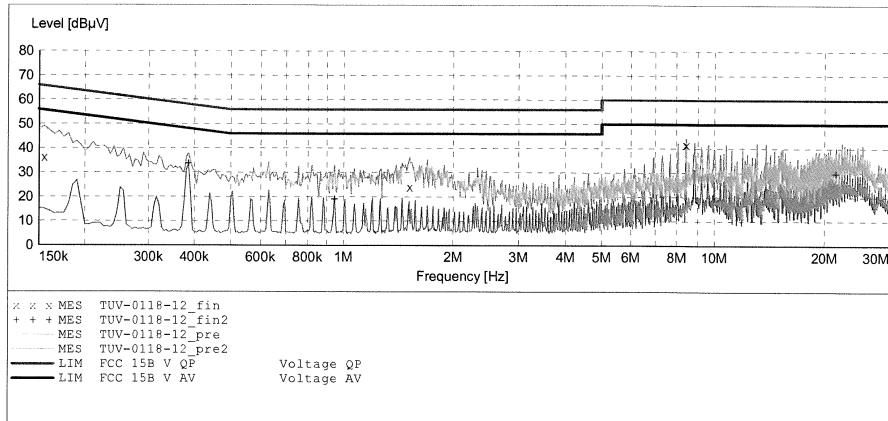
For details refer to following test plot.

ACCURATE TECHNOLOGY CO.,LTD
CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: Multimedia Speaker M/N:e235(R Speaker)
 Manufacturer: EDIFIER
 Operating Condition: On with Bluetooth+5G TX
 Test Site: 1#Shielding Room
 Operator: LGWADE
 Test Specification: L 120V/60Hz
 Comment: Mains Port
 Start of Test: 1/18/2016 /

SCAN TABLE: "V 9K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 9.0 kHz 150.0 kHz 100.0 Hz QuasiPeak 1.0 s 200 Hz NSLK8126 2008
 Average
 150.0 kHz 30.0 MHz 5.0 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average


MEASUREMENT RESULT: "TUV-0118-12_fin"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.155000	36.30	10.5	66	29.4	QP	L1	GND
1.520000	24.10	10.9	56	31.9	QP	L1	GND
8.450000	41.60	11.3	60	18.4	QP	L1	GND

MEASUREMENT RESULT: "TUV-0118-12_fin2"

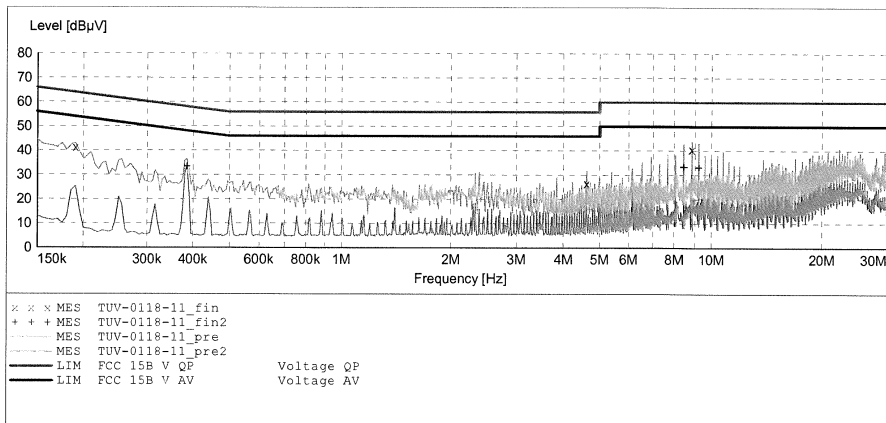
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.385000	33.60	10.7	48	14.6	AV	L1	GND
0.945000	19.00	10.8	46	27.0	AV	L1	GND
21.505000	29.70	11.4	50	20.3	AV	L1	GND

ACCURATE TECHNOLOGY CO.,LTD
CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: Multimedia Speaker M/N:e235(R Speaker)
 Manufacturer: EDIFIER
 Operating Condition: On with Bluetooth+5G TX
 Test Site: 1#Shielding Room
 Operator: LGWADE
 Test Specification: N 120V/60Hz
 Comment: Mains Port
 Start of Test: 1/18/2016 /

SCAN TABLE: "V 9K-30MHz fin"

Short Description: _SUB STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 9.0 kHz 150.0 kHz 100.0 Hz QuasiPeak 1.0 s 200 Hz NSLK8126 2008
 Average
 150.0 kHz 30.0 MHz 5.0 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average


MEASUREMENT RESULT: "TUV-0118-11_fin"

1/18/2016

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.190000	41.30	10.5	64	22.7	QP	N	GND
4.610000	26.50	11.1	56	29.5	QP	N	GND
8.830000	40.60	11.3	60	19.4	QP	N	GND

MEASUREMENT RESULT: "TUV-0118-11_fin2"

1/18/2016

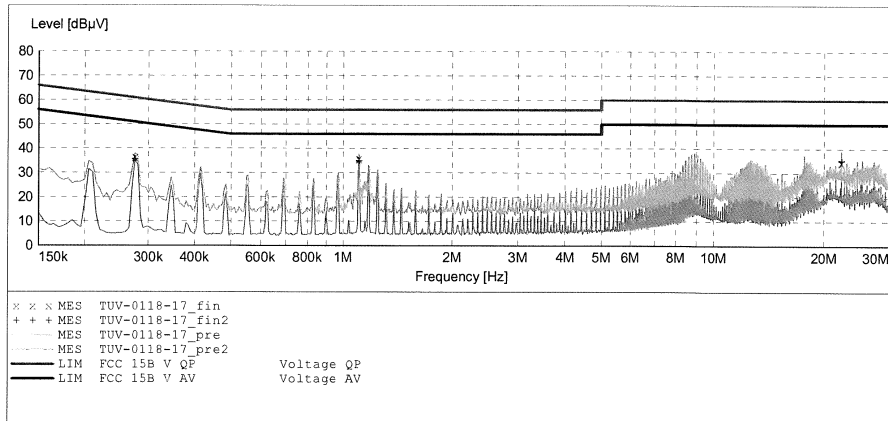
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.385000	33.40	10.7	48	14.8	AV	N	GND
8.450000	33.30	11.3	50	16.7	AV	N	GND
9.220000	33.10	11.3	50	16.9	AV	N	GND

ACCURATE TECHNOLOGY CO.,LTD
CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: Multimedia Speaker M/N:e235 (Subwoofer)
 Manufacturer: EDIFIER
 Operating Condition: On with Bluetooth+5G RX
 Test Site: 1#Shielding Room
 Operator: LGWADE
 Test Specification: L 120V/60Hz
 Comment: Mains Port
 Start of Test: 1/18/2016 /

SCAN TABLE: "V 9K-30MHz fin"

Short Description: SUB STD VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 9.0 kHz 150.0 kHz 100.0 Hz QuasiPeak 1.0 s 200 Hz NSLK8126 2008
 150.0 kHz 30.0 MHz 5.0 kHz Average
 QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average


MEASUREMENT RESULT: "TUV-0118-17_fin"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.275000	36.50	10.6	61	24.5	QP	L1	GND
1.105000	35.80	10.9	56	20.2	QP	L1	GND
22.270000	34.60	11.4	60	25.4	QP	L1	GND

MEASUREMENT RESULT: "TUV-0118-17_fin2"

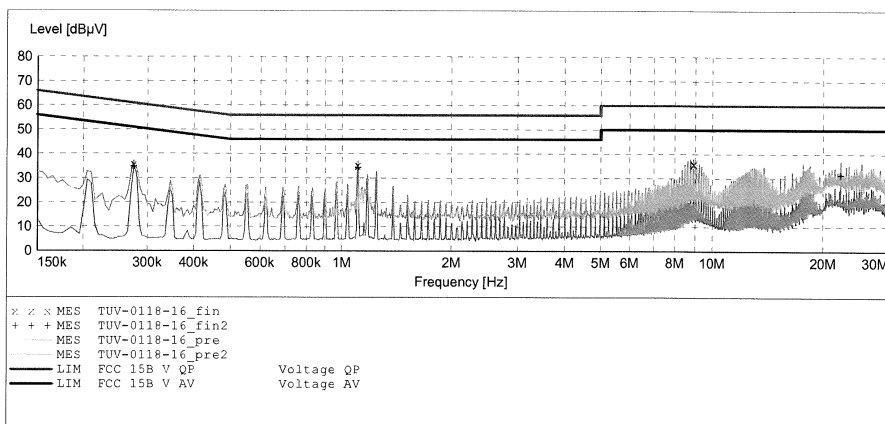
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.275000	35.50	10.6	51	15.5	AV	L1	GND
1.105000	34.80	10.9	46	11.2	AV	L1	GND
22.270000	35.10	11.4	50	14.9	AV	L1	GND

ACCURATE TECHNOLOGY CO.,LTD
CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: Multimedia Speaker M/N:e235(Subwoofer)
 Manufacturer: EDIFIER
 Operating Condition: On with Bluetooth+5G RX
 Test Site: 1#Shielding Room
 Operator: LGWADE
 Test Specification: N 120V/60Hz
 Comment: Mains Port
 Start of Test: 1/18/2016 /

SCAN TABLE: "V 9K-30MHz fin"

Short Description: SUB STD VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 9.0 kHz 150.0 kHz 100.0 Hz QuasiPeak 1.0 s 200 Hz NSLK8126 2008
 150.0 kHz 30.0 MHz 5.0 kHz Average
 QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average


MEASUREMENT RESULT: "TUV-0118-16_fin"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.275000	35.70	10.6	61	25.3	QP	N	GND
1.105000	35.30	10.9	56	20.7	QP	N	GND
8.930000	36.00	11.3	60	24.0	QP	N	GND

MEASUREMENT RESULT: "TUV-0118-16_fin2"

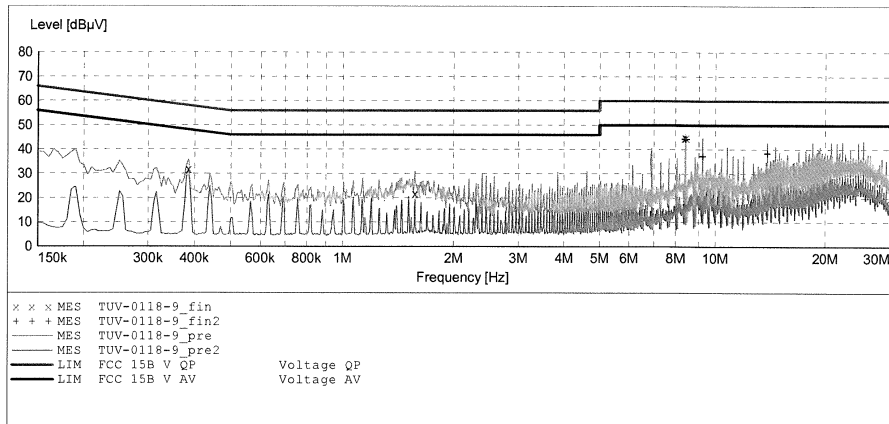
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.275000	34.70	10.6	51	16.3	AV	N	GND
1.105000	34.30	10.9	46	11.7	AV	N	GND
22.270000	31.40	11.4	50	18.6	AV	N	GND

ACCURATE TECHNOLOGY CO.,LTD
CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: Multimedia Speaker M/N:e235(R Speaker)
 Manufacturer: EDIFIER
 Operating Condition: Aux in
 Test Site: 1#Shielding Room
 Operator: LGWADE
 Test Specification: L 120V/60Hz
 Comment: Mains Port
 Start of Test: 1/18/2016 /

SCAN TABLE: "V 9K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 9.0 kHz 150.0 kHz 100.0 Hz QuasiPeak 1.0 s 200 Hz NSLK8126 2008
 Average
 150.0 kHz 30.0 MHz 5.0 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average


MEASUREMENT RESULT: "TUV-0118-9_fin"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.385000	31.90	10.7	58	26.3	QP	L1	GND
1.570000	21.80	10.9	56	34.2	QP	L1	GND
8.450000	44.90	11.3	60	15.1	QP	L1	GND

MEASUREMENT RESULT: "TUV-0118-9_fin2"

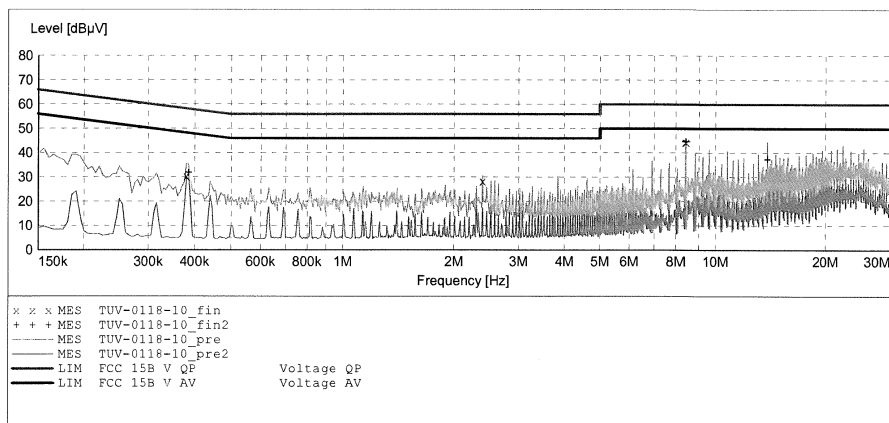
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
8.450000	44.20	11.3	50	5.8	AV	L1	GND
9.220000	37.20	11.3	50	12.8	AV	L1	GND
13.825000	38.40	11.4	50	11.6	AV	L1	GND

ACCURATE TECHNOLOGY CO.,LTD
CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: Multimedia Speaker M/N:e235(R Speaker)
 Manufacturer: EDIFIER
 Operating Condition: Aux in
 Test Site: 1#Shielding Room
 Operator: LGWADE
 Test Specification: N 120V/60Hz
 Comment: Mains Port
 Start of Test: 1/18/2016 /

SCAN TABLE: "V 9K-30MHz fin"

Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	NSLK8126 2008
150.0 kHz	30.0 MHz	5.0 kHz	Average			
			QuasiPeak	1.0 s	9 kHz	NSLK8126 2008
			Average			


MEASUREMENT RESULT: "TUV-0118-10_fin"

1/18/2016								
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE	
0.380000	30.40	10.7	58	27.9	QP	N	GND	
2.390000	28.30	11.0	56	27.7	QP	N	GND	
8.450000	44.50	11.3	60	15.5	QP	N	GND	

MEASUREMENT RESULT: "TUV-0118-10_fin2"

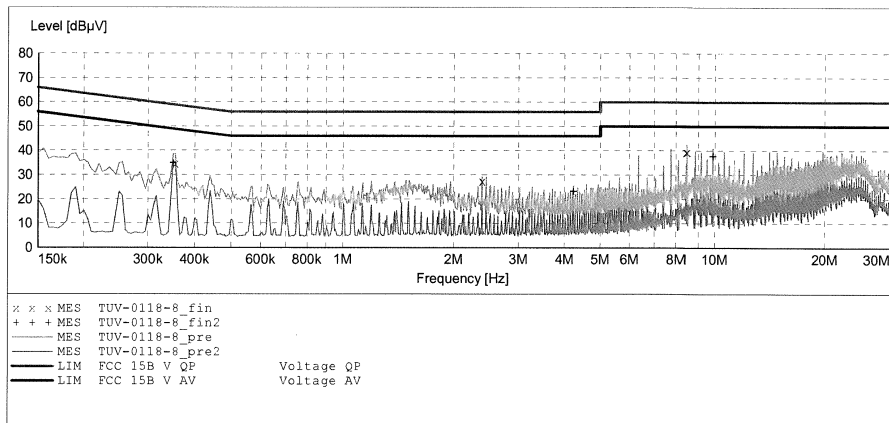
1/18/2016								
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE	
0.385000	31.80	10.7	48	16.4	AV	N	GND	
8.450000	44.60	11.3	50	5.4	AV	N	GND	
13.825000	37.30	11.4	50	12.7	AV	N	GND	

ACCURATE TECHNOLOGY CO.,LTD
CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: Multimedia Speaker M/N:e235(R Speaker)
 Manufacturer: EDIFIER
 Operating Condition: Optical in
 Test Site: 1#Shielding Room
 Operator: LGWADE
 Test Specification: L 120V/60Hz
 Comment: Mains Port
 Start of Test: 1/18/2016 /

SCAN TABLE: "V 9K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 9.0 kHz 150.0 kHz 100.0 Hz QuasiPeak 1.0 s 200 Hz NSLK8126 2008
 Average
 150.0 kHz 30.0 MHz 5.0 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average


MEASUREMENT RESULT: "TUV-0118-8_fin"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.355000	34.70	10.6	59	24.1	QP	L1	GND
2.390000	27.40	11.0	56	28.6	QP	L1	GND
8.470000	39.40	11.3	60	20.6	QP	L1	GND

MEASUREMENT RESULT: "TUV-0118-8_fin2"

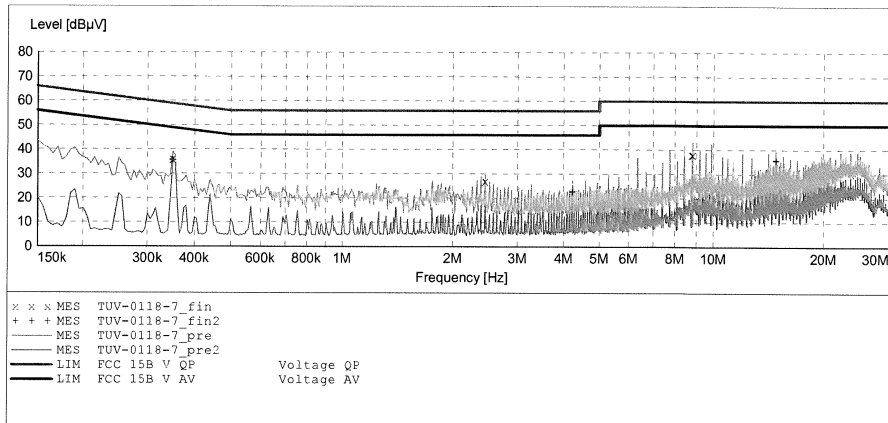
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.350000	34.80	10.6	49	14.2	AV	L1	GND
4.230000	23.20	11.1	46	22.8	AV	L1	GND
9.880000	37.70	11.3	50	12.3	AV	L1	GND

ACCURATE TECHNOLOGY CO.,LTD
CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: Multimedia Speaker M/N:e235(R Speaker)
 Manufacturer: EDIFIER
 Operating Condition: Optical in
 Test Site: 1#Shielding Room
 Operator: LGWADE
 Test Specification: N 120V/60Hz
 Comment: Mains Port
 Start of Test: 1/18/2016 /

SCAN TABLE: "V 9K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 9.0 kHz 150.0 kHz 100.0 Hz QuasiPeak 1.0 s 200 Hz NSLK8126 2008
 Average
 150.0 kHz 30.0 MHz 5.0 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average


MEASUREMENT RESULT: "TUV-0118-7_fin"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.350000	36.10	10.6	59	22.9	QP	N	GND
2.450000	27.00	11.0	56	29.0	QP	N	GND
8.820000	38.00	11.3	60	22.0	QP	N	GND

MEASUREMENT RESULT: "TUV-0118-7_fin2"

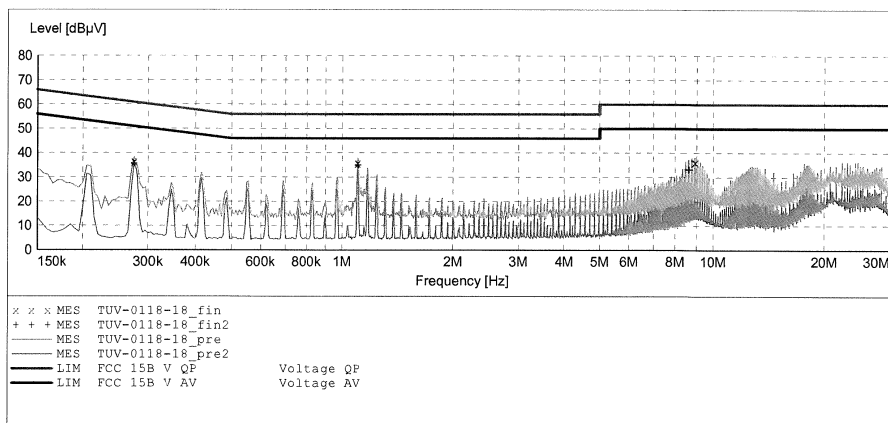
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.350000	35.60	10.6	49	13.4	AV	N	GND
4.230000	22.50	11.1	46	23.5	AV	N	GND
14.815000	35.60	11.4	50	14.4	AV	N	GND

ACCURATE TECHNOLOGY CO.,LTD
CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: Multimedia Speaker M/N:e235 (Subwoofer)
 Manufacturer: EDIFIER
 Operating Condition: Aux in
 Test Site: 1#Shielding Room
 Operator: LGWADE
 Test Specification: L 120V/60Hz
 Comment: Mains Port
 Start of Test: 1/18/2016 /

SCAN TABLE: "V 9K-30MHz fin"

Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	NSLK8126 2008
150.0 kHz	30.0 MHz	5.0 kHz	Average			
			QuasiPeak	1.0 s	9 kHz	NSLK8126 2008
			Average			


MEASUREMENT RESULT: "TUV-0118-18_fin"

1/18/2016								
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE	
0.275000	36.50	10.6	61	24.5	QP	L1	GND	
1.105000	35.80	10.9	56	20.2	QP	L1	GND	
8.930000	36.30	11.3	60	23.7	QP	L1	GND	

MEASUREMENT RESULT: "TUV-0118-18_fin2"

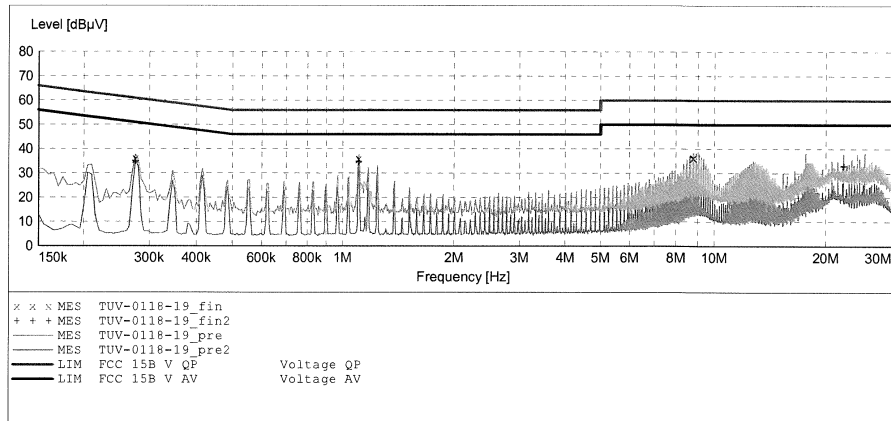
1/18/2016								
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE	
0.275000	35.50	10.6	51	15.5	AV	L1	GND	
1.105000	34.90	10.9	46	11.1	AV	L1	GND	
8.650000	33.10	11.3	50	16.9	AV	L1	GND	

ACCURATE TECHNOLOGY CO.,LTD
CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: Multimedia Speaker M/N:e235 (Subwoofer)
 Manufacturer: EDIFIER
 Operating Condition: Aux in
 Test Site: 1#Shielding Room
 Operator: LGWADE
 Test Specification: N 120V/60Hz
 Comment: Mains Port
 Start of Test: 1/18/2016 /

SCAN TABLE: "V 9K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 9.0 kHz 150.0 kHz 100.0 Hz QuasiPeak 1.0 s 200 Hz NSLK8126 2008
 Average
 150.0 kHz 30.0 MHz 5.0 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average


MEASUREMENT RESULT: "TUV-0118-19_fin"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.275000	36.00	10.6	61	25.0	QP	N	GND
1.105000	35.90	10.9	56	20.1	QP	N	GND
8.790000	36.50	11.3	60	23.5	QP	N	GND

MEASUREMENT RESULT: "TUV-0118-19_fin2"

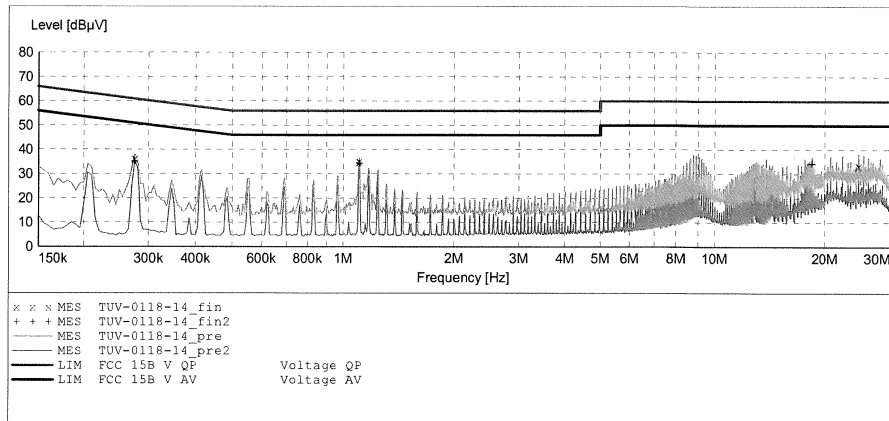
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.275000	34.90	10.6	51	16.1	AV	N	GND
1.105000	34.70	10.9	46	11.3	AV	N	GND
22.270000	32.90	11.4	50	17.1	AV	N	GND

ACCURATE TECHNOLOGY CO.,LTD
CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: Multimedia Speaker M/N:e235 (Subwoofer)
 Manufacturer: EDIFIER
 Operating Condition: Optical in
 Test Site: 1#Shielding Room
 Operator: LGWADE
 Test Specification: L 120V/60Hz
 Comment: Mains Port
 Start of Test: 1/18/2016 /

SCAN TABLE: "V 9K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 9.0 kHz 150.0 kHz 100.0 Hz QuasiPeak 1.0 s 200 Hz NSLK8126 2008
 Average
 150.0 kHz 30.0 MHz 5.0 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average


MEASUREMENT RESULT: "TUV-0118-14_fin"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.275000	36.30	10.6	61	24.7	QP	L1	GND
1.105000	35.10	10.9	56	20.9	QP	L1	GND
24.580000	33.50	11.5	60	26.5	QP	L1	GND

MEASUREMENT RESULT: "TUV-0118-14_fin2"

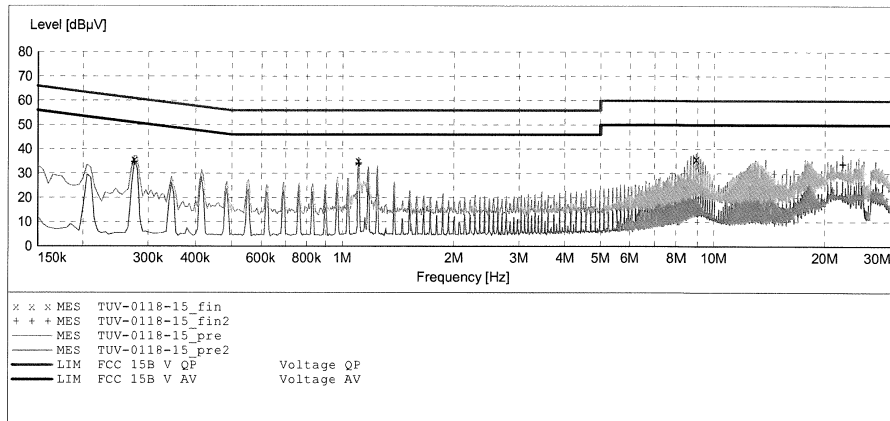
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.275000	35.10	10.6	51	15.9	AV	L1	GND
1.105000	34.30	10.9	46	11.7	AV	L1	GND
18.430000	34.20	11.4	50	15.8	AV	L1	GND

ACCURATE TECHNOLOGY CO.,LTD
CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: Multimedia Speaker M/N:e235 (Subwoofer)
 Manufacturer: EDIFIER
 Operating Condition: Optical in
 Test Site: 1#Shielding Room
 Operator: LGWADE
 Test Specification: N 120V/60Hz
 Comment: Mains Port
 Start of Test: 1/18/2016 /

SCAN TABLE: "V 9K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 9.0 kHz 150.0 kHz 100.0 Hz QuasiPeak 1.0 s 200 Hz NSLK8126 2008
 Average
 150.0 kHz 30.0 MHz 5.0 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average


MEASUREMENT RESULT: "TUV-0118-15_fin"

1/18/2016	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dBµV	dB	dBµV	dB			
	0.275000	35.70	10.6	61	25.3	QP	N	GND
	1.105000	35.20	10.9	56	20.8	QP	N	GND
	8.920000	36.10	11.3	60	23.9	QP	N	GND

MEASUREMENT RESULT: "TUV-0118-15_fin2"

1/18/2016	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dBµV	dB	dBµV	dB			
	0.275000	34.70	10.6	51	16.3	AV	N	GND
	1.105000	34.10	10.9	46	11.9	AV	N	GND
	22.270000	33.80	11.4	50	16.2	AV	N	GND

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5.1.17 Radiated Emission**RESULT:****Pass**

Date of testing	:	2016-01-25
Test standard	:	FCC Part 15.109 (a) ICES-003 Issue 6 January 2016
Test procedure	:	ANSI C63.4: 2014
Frequency range	:	30 - 6000MHz
Equipment Classification	:	Class B
Limits	:	FCC Part 15.109 (a) ICES-003 Issue 6 January 2016
Kind of test site	:	3m Semi-Anechoic Chamber

Test setup

Input Voltage	:	AC 120V, 60Hz
Operation mode	:	B, C
Earthing	:	Not connected
Ambient temperature	:	23°C
Relative humidity	:	48%
Atmospheric pressure	:	101kPa

For details refer to following test plot.


 No.3.JinShaGang 1st Road,ShiXia,DaLang Town,DongGuan,China.
 Tel: (0769)-8318-3000 Fax:(0769)-8319-6000 Post Code: 523792
www.newbtl.com

Site: DG-CB03

 Polarization: **Horizontal**

Temperature: 22 (C)

Limit: FCC Class B 3m Radiation

Power: AC 120V/60Hz

Humidity: 56 %

EUT: Speaker

Distance: 3m

M/N: E235

Mode: Aux in

Note: 1K+100Hz

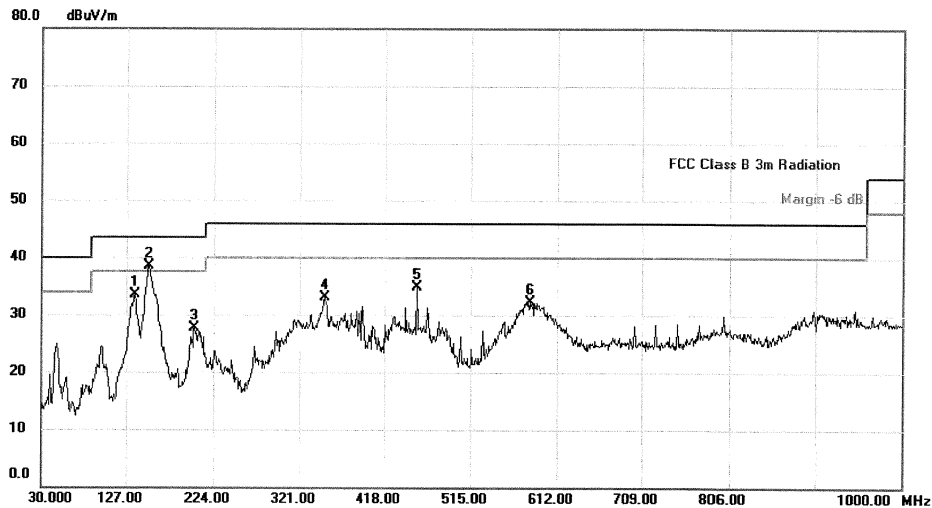
Radiated Emission Measurement

File :E235-RAD-FCC-LOW

Data :#1

Date: 2016-1-25

Time: 11:23:26



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		136.7000	47.33	-13.74	33.59	43.50	-9.91	peak	
2	*	152.2200	51.48	-12.88	38.60	43.50	-4.90	peak	
3		202.6600	42.67	-15.06	27.61	43.50	-15.89	peak	
4		350.1000	44.37	-11.34	33.03	46.00	-12.97	peak	
5		454.8600	43.16	-8.23	34.93	46.00	-11.07	peak	
6		580.9600	39.21	-6.83	32.38	46.00	-13.62	peak	

*:Maximum data x:Over limit !:over margin

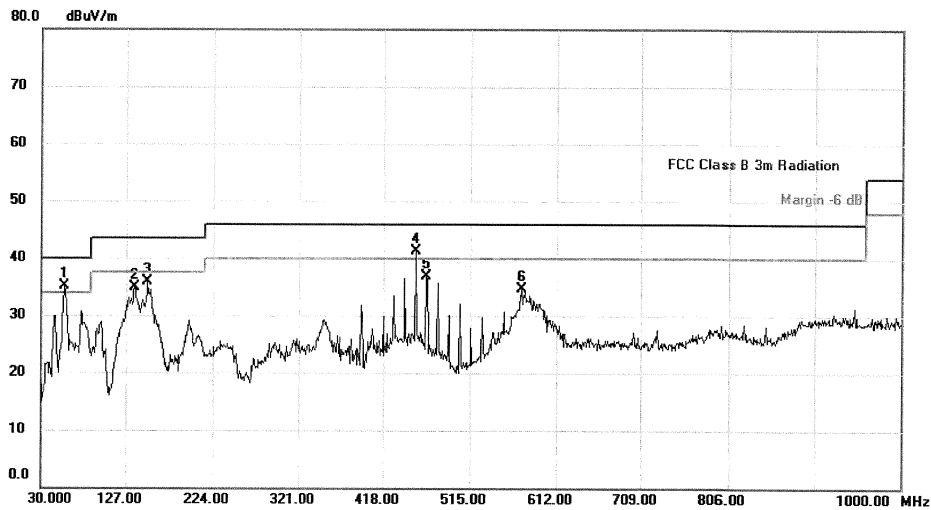
(Reference Only)


 No.3.JinShaGang 1st Road,ShiXia,DaLang Town,DongGuan,China.
 Tel: (0769)-8318-3000 Fax:(0769)-8319-6000 Post Code: 523792
www.newbtl.com

Site: DG-CB03	Polarization: Vertical	Temperature: 22 (C)
Limit: FCC Class B 3m Radiation	Power: AC 120V/60Hz	Humidity: 56 %
EUT: Speaker	Distance: 3m	
M/N: E235	Mode: Aux in	
Note: 1K+100Hz		

Radiated Emission Measurement

File :E235-RAD-FCC-LOW Data :#2 Date: 2016-1-25 Time: 11:28:15



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	!	56.1900	48.90	-13.88	35.02	40.00	-4.98	peak	
2		136.7000	48.57	-13.74	34.83	43.50	-8.67	peak	
3		151.2500	48.93	-12.93	36.00	43.50	-7.50	peak	
4	*	454.8600	49.59	-8.23	41.36	46.00	-4.64	peak	
5		466.5000	45.55	-8.69	36.86	46.00	-9.14	peak	
6		572.2300	41.03	-6.36	34.67	46.00	-11.33	peak	

*:Maximum data x:Over limit !:over margin

(Reference Only)


 No.3.JinShaGang 1st Road,ShiXia,DaLang Town,DongGuan,China.
 Tel: (0769)-8318-3000 Fax:(0769)-8319-6000 Post Code: 523792
www.newbtl.com

Site: DG-CB03

 Polarization: **Horizontal**

Temperature: 22 (C)

Limit: FCC Class B 3m Radiation

Power: AC 120V/60Hz

Humidity: 56 %

EUT: Speaker

Distance: 3m

M/N: E235

Mode: Optical in

Note: 1K+100Hz

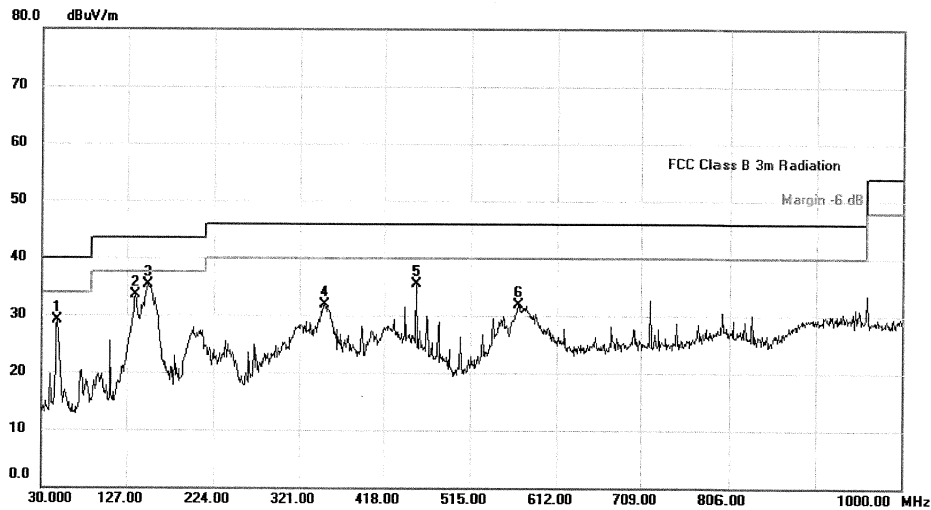
Radiated Emission Measurement

File :E235-RAD-FCC-LOW

Data :#3

Date: 2016-1-25

Time: 11:39:47



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		47.4600	42.67	-13.62	29.05	40.00	-10.95	peak	
2		136.7000	47.29	-13.74	33.55	43.50	-9.95	peak	
3	*	151.2500	48.28	-12.93	35.35	43.50	-8.15	peak	
4		350.1000	43.25	-11.34	31.91	46.00	-14.09	peak	
5		454.8600	43.79	-8.23	35.56	46.00	-10.44	peak	
6		568.3500	38.04	-6.14	31.90	46.00	-14.10	peak	

*:Maximum data x:Over limit !:over margin

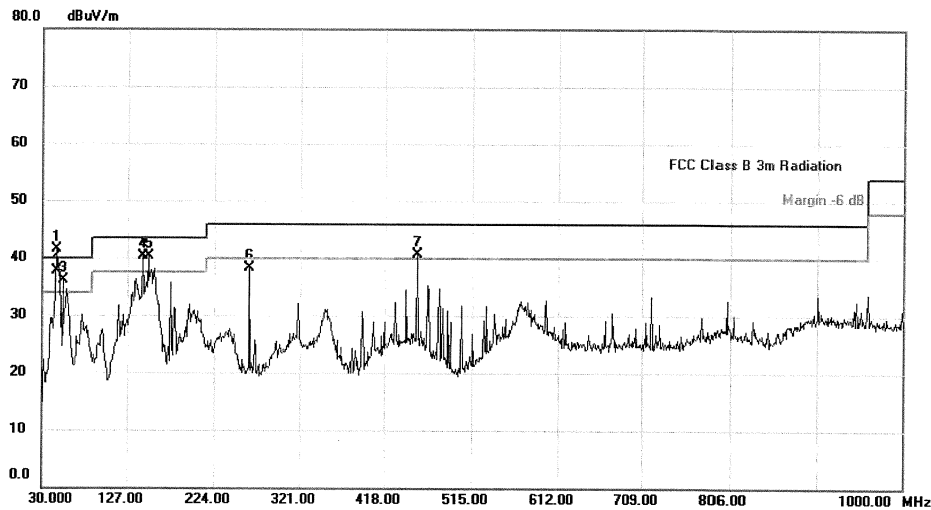
(Reference Only)


 No.3.JinShaGang 1st Road,ShiXia,DaLang Town,DongGuan,China.
 Tel: (0769)-8318-3000 Fax:(0769)-8319-6000 Post Code: 523792
www.newbtl.com

Site: DG-CB03	Polarization: Vertical	Temperature: 22 (C)
Limit: FCC Class B 3m Radiation	Power: AC 120V/60Hz	Humidity: 56 %
EUT: Speaker	Distance: 3m	
M/N: E235	Mode: Optical in	
Note: 1K+100Hz		

Radiated Emission Measurement

File :E235-RAD-FCC-LOW Data :#4 Date: 2016-1-25 Time: 11:43:24



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	45.5200	54.81	-13.25	41.56	40.00	1.56	peak	
2	!	45.5200	50.90	-13.25	37.65	40.00	-2.35	QP	
3	!	53.2800	49.82	-13.67	36.15	40.00	-3.85	peak	
4	!	144.4600	54.00	-13.60	40.40	43.50	-3.10	peak	
5	!	150.2800	53.22	-13.00	40.22	43.50	-3.28	peak	
6		263.7700	52.37	-14.06	38.31	46.00	-7.69	peak	
7	!	454.8600	48.96	-8.23	40.73	46.00	-5.27	peak	

*:Maximum data x:Over limit !:over margin

(Reference Only)

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ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel: +86-0755-26503290

Fax: +86-0755-26503396

Job No.: lgwade #470

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Multimedia Speaker

Mode: Aux in

Model: e235

Manufacturer: EDIFIER

Polarization: Horizontal

Power Source: AC 120V/60Hz

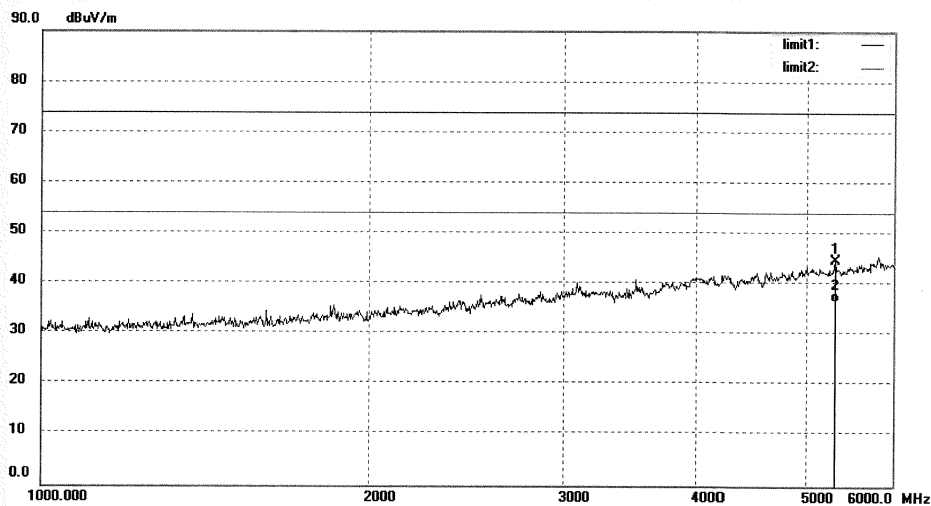
Date: 2016-1-13

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5302.233	43.58	1.01	44.59	74.00	-29.41	peak			
2	5302.233	35.62	1.01	36.63	54.00	-17.37	AVG			

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ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: lgwade #471

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Multimedia Speaker

Mode: Aux in

Model: e235

Manufacturer: EDIFIER

Polarization: Vertical

Power Source: AC 120V/60Hz

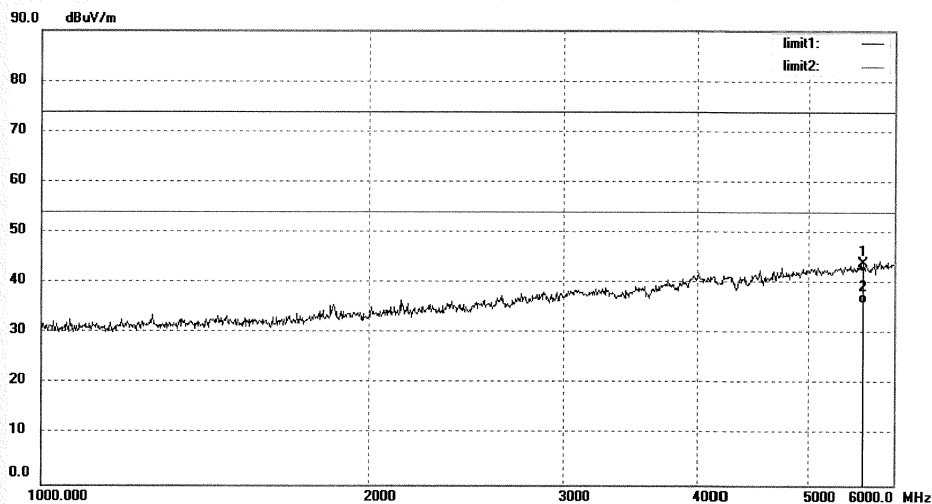
Date: 2016-1-13

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5615.128	42.63	1.40	44.03	74.00	-29.97	peak			
2	5615.128	34.74	1.40	36.14	54.00	-17.86	AVG			


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F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

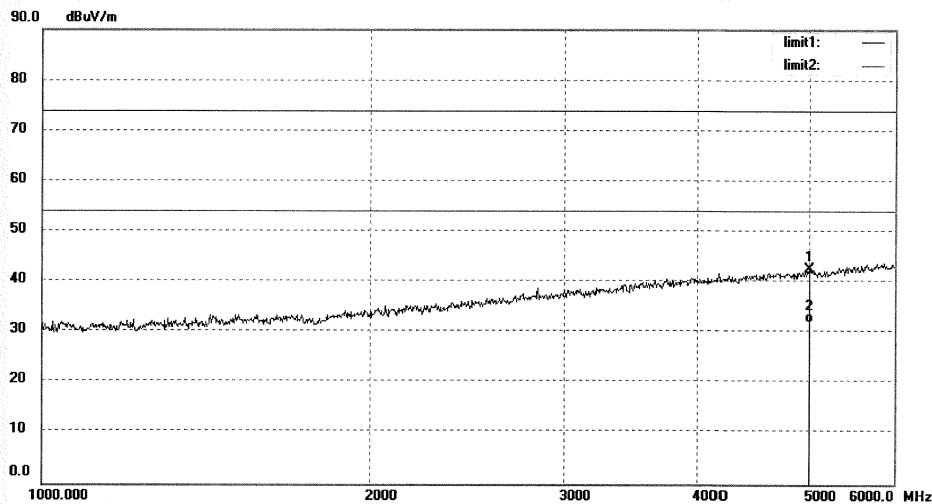
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #472
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Multimedia Speaker
Mode: Optical in
Model: e235
Manufacturer: EDIFIER

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 2016-1-13
Time:
Engineer Signature: LGWADE
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5010.345	42.05	0.67	42.72	74.00	-31.28	peak			
2	5010.345	31.36	0.67	32.03	54.00	-21.97	AVG			


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F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

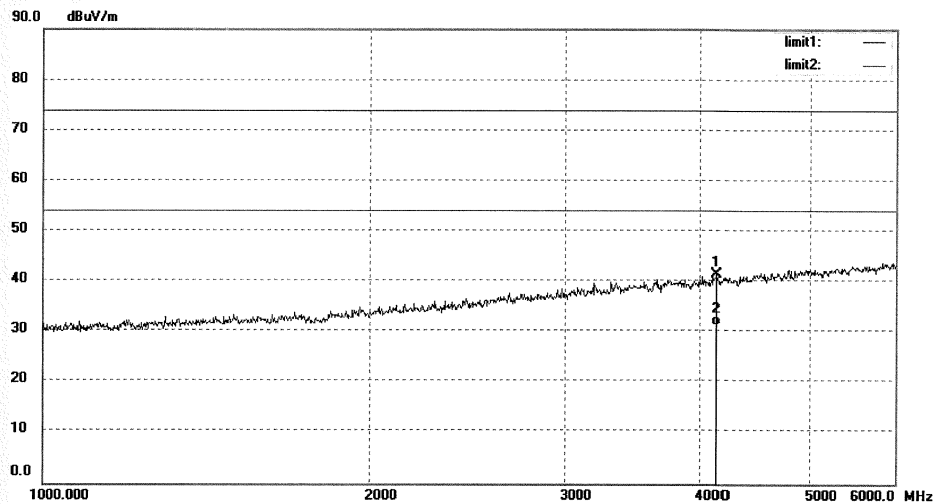
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #473
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Multimedia Speaker
Mode: Optical in
Model: e235
Manufacturer: EDIFIER

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 2016-1-13
Time:
Engineer Signature: LGWADE
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4142.023	43.06	-1.51	41.55	74.00	-32.45	peak			
2	4140.023	32.83	-1.51	31.32	54.00	-22.68	AVG			

1. Safety Human exposure

1.1 Radio Frequency Exposure Compliance

1.1.1 Electromagnetic Fields

RESULT:**Pass**

Test standard : RSS-102 Issue 5 March 2015
FCC KDB Publication 447498 D01 v06
FCC KDB Publication 447498 D03 v01
FCC Part 2 (Section 2.1091)

MPE Calculation Formula:

$$P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

Calculation Result for Single antenna transmissions:

Operation Frequency (MHz)	Max. Output Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
2450MHz	4.02	2.5	20	0.000893	1
5800MHz	8.32	3.2	20	0.002823	1

Calculation Result for Multi antenna transmissions:

Condition	Power Density (mW/cm ²)	Limit (mW/cm ²)
Bluetooth + WiFi	0.003716	1

Conclusion:

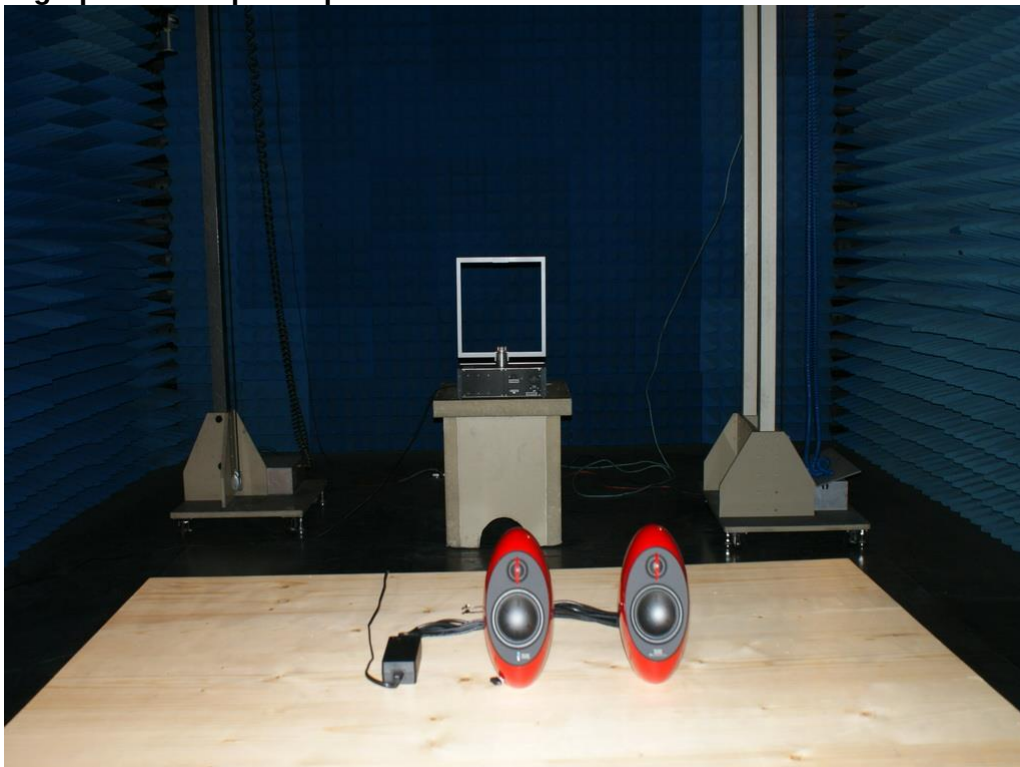
Therefore the maximum calculations of above situations are less than the Power Density Limit.

2. Photographs of the Test Set-Up

Photograph 1: Set-up for Conducted Emissions



Photograph 2: Set-up for Spurious Emissions for below 30MHz



Photograph 3: Set-up for Spurious Emissions for 30 - 1000MHz



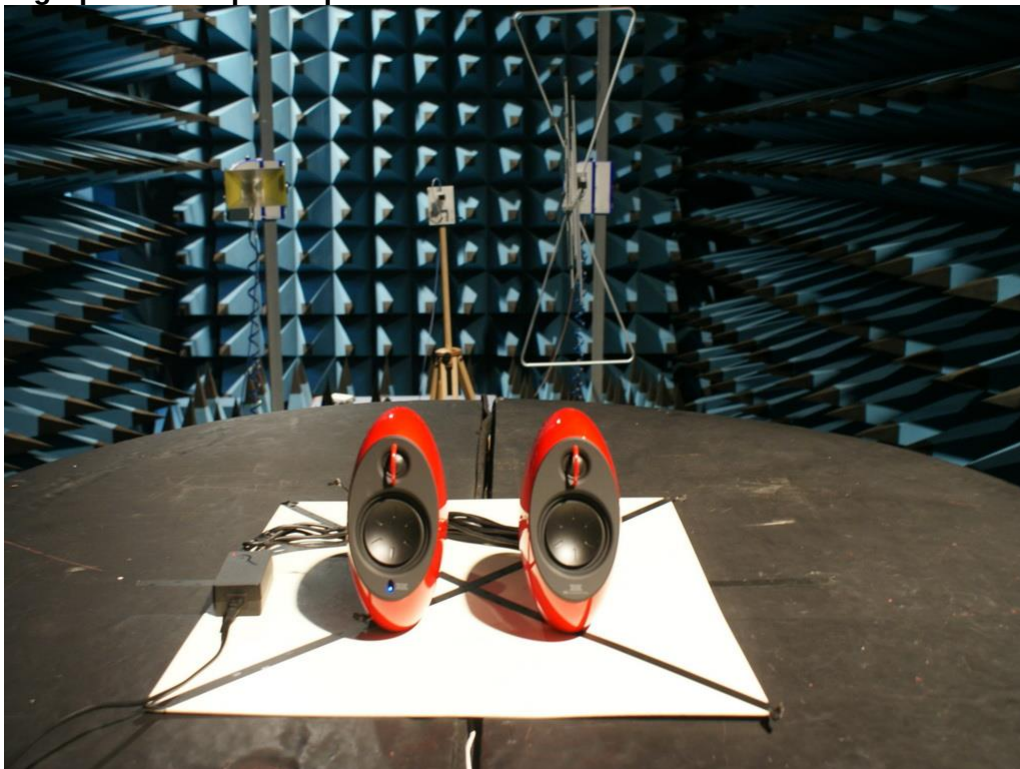
Photograph 4: Set-up for Spurious Emissions for 1 - 18GHz



Photograph 5: Set-up for Spurious Emissions for 18 - 26.5GHz



Photograph 6: Set-up for Spurious Emissions for 26.5 - 40GHz



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