

**APPLICATION FOR VERIFICATION**  
**On Behalf of**  
**TQL TRADING INC**

**SPEAKER**

Model No.: TQ-LT1504, TQ-LT1512, TQ-LT1513, TQ-LT1514, TQ-LT1516,  
TQ-LT1517, TQ-LT1518, TQ-LT1519, TQ-LT1520, TQ-LT1521

FCC ID: 2AKNJTQ-LT1504

Prepared for : TQL TRADING INC.  
Address : 334 S LOS ANGELES ST #9002, LOS ANGELES,  
CALIFORNIA, 90013, United States  
Prepared by : Accurate Technology Co., Ltd.  
Address : F1, Bldg. A&D, Changyuan New Material Port, Keyuan  
Rd., Science & Industry Park, Nanshan District, Shenzhen  
518057, P.R. China

Tel: +86-755-26503290  
Fax: +86-755-26503396

Report No. : ATE20161336  
Date of Test : July 01--Dec. 28, 2016  
Date of Report : Dec. 29, 2016

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## Test Report Declaration

Applicant : TQL TRADING INC.  
Manufacturer : TQL TRADING INC.  
Product : SPEAKER  
Model No. : TQ-LT1504, TQ-LT1512, TQ-LT1513, TQ-LT1514,  
TQ-LT1516, TQ-LT1517, TQ-LT1518, TQ-LT1519,  
TQ-LT1520, TQ-LT1521  
(Note: they are identical in interior structure, electrical circuits and components, and  
Product model is different because of different Color of product appearance. So we  
prepare the TQ-LT1504 for test.)  
Trade name : H&A

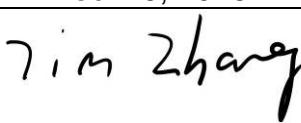
Measurement Procedure Used:

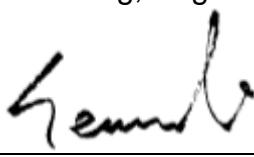
**FCC Rules and Regulations Part 15 Subpart B  
ANSI C63.4: 2014**

The device described above is tested by Accurate Technology Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B Class B limits both radiated and conducted emissions. The measurement results are contained in this test report and Accurate Technology Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Accurate Technology Co., Ltd.

Date of Test : \_\_\_\_\_ July 01--Dec. 28, 2016  
Date of Report : \_\_\_\_\_ Dec. 29, 2016

Prepared by : \_\_\_\_\_  
  
(Tim.zhang, Engineer)

Approved & Authorized Signer : \_\_\_\_\_  
  
(Sean Liu, Manager)

## 1. TEST RESULTS SUMMARY

Test Items	Test Standard	Test Results
Power Line Conducted Emission	FCC Part 15 Subpart B	Pass
Radiated Emission	FCC Part 15 Subpart B	Pass

## 2. GENERAL INFORMATION

### 2.1. Product of Device (EUT)

EUT : SPEAKER

Model Number : TQ-LT1504, TQ-LT1512, TQ-LT1513, TQ-LT1514, TQ-LT1516, TQ-LT1517, TQ-LT1518, TQ-LT1519, TQ-LT1520, TQ-LT1521

Power Supply : AC 110V/60Hz-220V/50Hz  
Or EXTERNAL DC 12V

Trade Name : H&A

Remark(s) : The EUT highest operating frequency provided by Manufacturer is 202.2MHz, the radiated emission measurement shall be made up to 3 GHz.

Modulation: : FM

Receiver Frequency : 202.2MHz RX

Applicant : TQL TRADING INC.

Address : 334 S LOS ANGELES ST #9002, LOS ANGELES, CALIFORNIA, 90013, United States

Manufacturer : TQL TRADING INC.

Address : 334 S LOS ANGELES ST #9002, LOS ANGELES, CALIFORNIA, 90013, United States

Date of sample received : July 01, 2016

Date of Test : July 01--Dec. 28, 2016

### 2.2. Test mode of EUT

Test mode 1: TF card PLAYING  
Test mode 2: SD card PLAYING  
Test mode 3: AUX IN  
Test mode 4: 202.2MHz RX  
Test mode 5: USB PLAYING  
Test mode 6: FM  
Test mode 7: GUITAR IN  
Test mode 8: MIC IN

### 2.3. Accessory and Auxiliary Equipment

FM Generator : Manufacturer: Rohde & Schwarz  
M/N: SML01  
S/N: 101161

Audio Generator : Manufacturer: NEW AOKO  
M/N: GAG-810  
S/N: D913311

USB Memory Disk : Manufacturer: Smartocean  
M/N: 3611  
S/N: 101200005

GUITAR : Manufacturer: GIBSON  
M/N: PR-4E

MIC : Manufacturer: TAKSTAR  
M/N: PC-K600

TF CARD : Manufacturer: Lexar  
M/N: 633x

SD CARD : Manufacturer: SONY  
M/N: SR-8UY

Wireless MIC : Manufacturer: TQL TRADING INC  
M/N: TQ-LT1504

## 2.4.Description of Test Facility

EMC Lab : Accredited by TUV Rheinland Shenzhen, May 10, 2004

Listed by FCC

The Registration Number is 253065

Listed by FCC

The Registration Number is 752051

Listed by Industry Canada

The Registration Number is 5077A-1

Listed by Industry Canada

The Registration Number is 5077A-2

Accredited by China National Accreditation Committee for Laboratories

The Certificate Registration Number is L3193

Name of Firm : Accurate Technology Co., Ltd.

Site Location : F1, Bldg. A&D, Changyuan New Material Port, Keyuan Rd., Science & Industry Park, Nanshan District, Shenzhen 518057, P.R. China

## 2.5.Measurement Uncertainty

Conducted emission expanded uncertainty :  $U=2.23\text{dB}$ ,  $k=2$

Power disturbance expanded uncertainty :  $U=2.92\text{dB}$ ,  $k=2$

Radiated emission expanded uncertainty :  $U=3.08\text{dB}$ ,  $k=2$   
(9kHz-30MHz)

Radiated emission expanded uncertainty :  $U=4.42\text{dB}$ ,  $k=2$   
(30MHz-1000MHz)

Radiated emission expanded uncertainty :  $U=4.06\text{dB}$ ,  $k=2$   
(Above 1GHz)

### 3. MEASURING DEVICE AND TEST EQUIPMENT

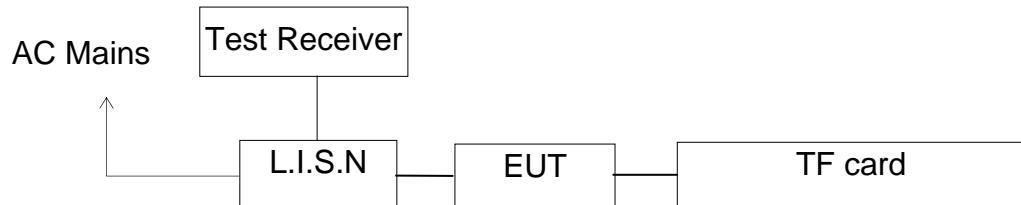
**Table 1: List of Test and Measurement Equipment**

Kind of equipment	Manufacturer	Type	S/N	Calibrated dates	Cal. Interval
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 09, 2016	One Year
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 09, 2016	One Year
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 09, 2016	One Year
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	Jan. 09, 2016	One Year
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 14, 2016	One Year
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 14, 2016	One Year
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 14, 2016	One Year
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1067	Jan. 14, 2016	One Year
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 09, 2016	One Year
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 09, 2016	One Year
Highpass Filter	Wainwright Instruments	WHKX3.6/18 G-10SS	N/A	Jan. 09, 2016	One Year
Band Reject Filter	Wainwright Instruments	WRCG2400/2 485-2375/251 0-60/11SS	N/A	Jan. 09, 2016	One Year

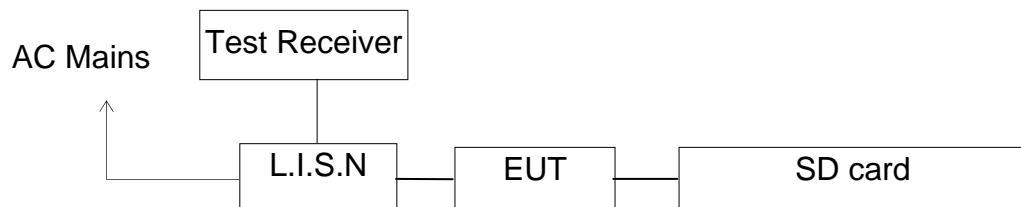
## 4. POWER LINE CONDUCTED MEASUREMENT

### 4.1. Block Diagram of Test Setup and Test mode description

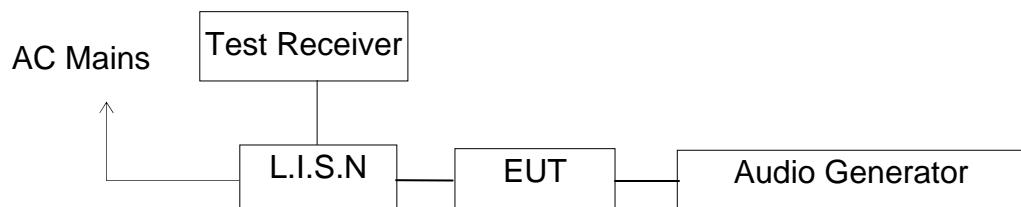
Test mode 1: TF card PLAYING



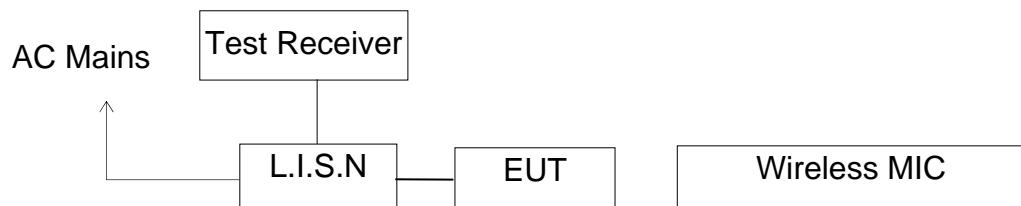
Test mode 2: SD card PLAYING



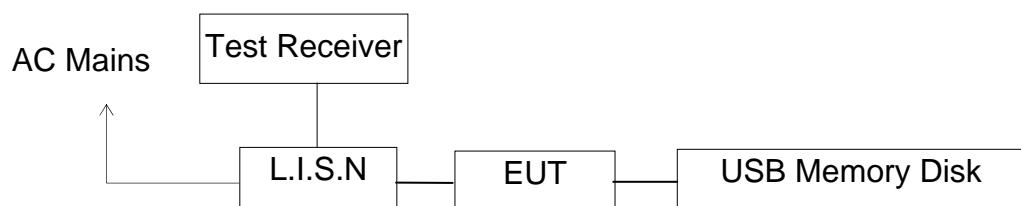
Test mode 3: AUX IN



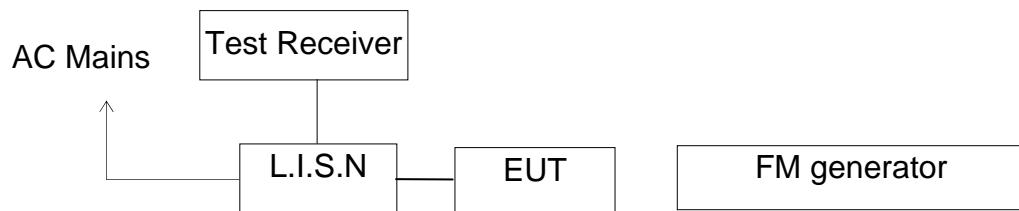
Test mode 4: 202.2MHz RX



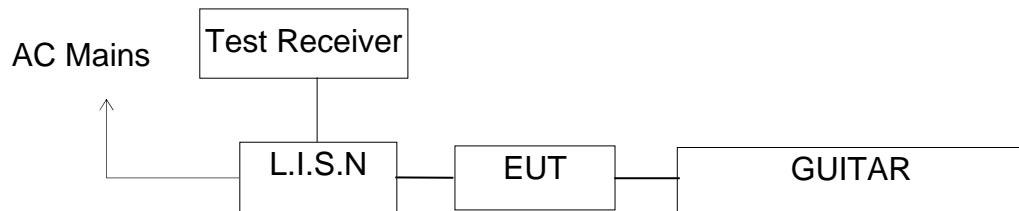
Test mode 5: USB PLAYING



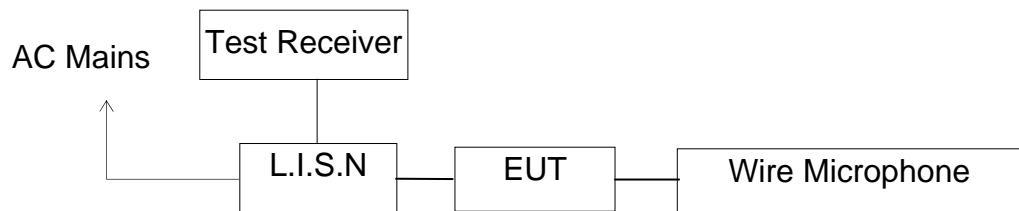
## Test mode 6: FM



## Test mode 7: GUITAR IN



## Test mode 8: MIC IN



## 4.2. The Emission Limit

## 4.2.1. Conducted Emission Measurement Limits According to Section 15.107(a)

Frequency (MHz)	Limit dB( $\mu$ V)	
	Quasi-peak Level	Average Level
0.15 - 0.50	66.0 – 56.0 *	56.0 – 46.0 *
0.50 - 5.00	56.0	46.0
5.00 - 30.00	60.0	50.0

\* Decreases with the logarithm of the frequency.

## 4.3. Configuration of EUT on Measurement

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.

## 4.3.1. SPEAKER (EUT)

Model Number : TQ-LT1504  
 Serial Number : N/A  
 Manufacturer : TQL TRADING INC.

#### 4.4. Operating Condition of EUT

- 4.4.1. Setup the EUT and simulator as shown as Section 4.1
- 4.4.2. Turn on the power of all equipment.
- 4.4.3. Let the EUT work in test mode and measure it.

#### 4.5. Test Procedure

The EUT is put on the plane 0.1m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4: 2014 on Conducted Emission Measurement.

The bandwidth of test receiver (R & S ESCS30) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

#### 4.6. Power Line Conducted Emission Measurement Results

**PASS.**

Emissions attenuated more than 20 dB below the permissible value are not reported.

The spectral diagrams are shown in the following pages.

## Test mode 1

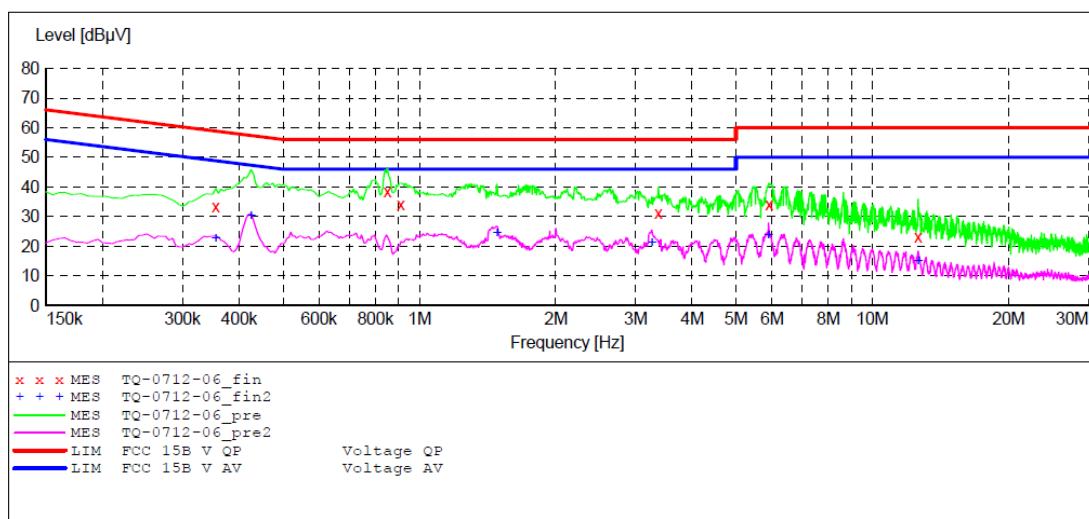
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1504  
 Manufacturer: TQL TRADING INC  
 Operating Condition: TF CARD PLAYING  
 Test Site: 1#Shielding Room  
 Operator: DING  
 Test Specification: N 120V/60Hz  
 Comment: Report No.:ATE20161336  
 Start of Test: 7/12/2016 / 12:54:54PM

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

Short Description:		SUB	STD	VTERM2	1.70	
Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Bandw.	Transducer
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: "TQ-0712-06\_fin"**

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.355000	33.40	10.6	59	25.4	QP	N	GND
0.850000	38.40	10.8	56	17.6	QP	N	GND
0.910000	34.20	10.8	56	21.8	QP	N	GND
3.370000	31.20	11.1	56	24.8	QP	N	GND
5.910000	34.10	11.2	60	25.9	QP	N	GND
12.625000	23.10	11.3	60	36.9	QP	N	GND

**MEASUREMENT RESULT: "TQ-0712-06\_fin2"**

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.355000	22.90	10.6	49	25.9	AV	N	GND
0.425000	30.40	10.7	47	16.9	AV	N	GND
1.485000	24.60	10.9	46	21.4	AV	N	GND
3.260000	21.20	11.1	46	24.8	AV	N	GND
5.900000	23.90	11.2	50	26.1	AV	N	GND
12.625000	15.00	11.3	50	35.0	AV	N	GND

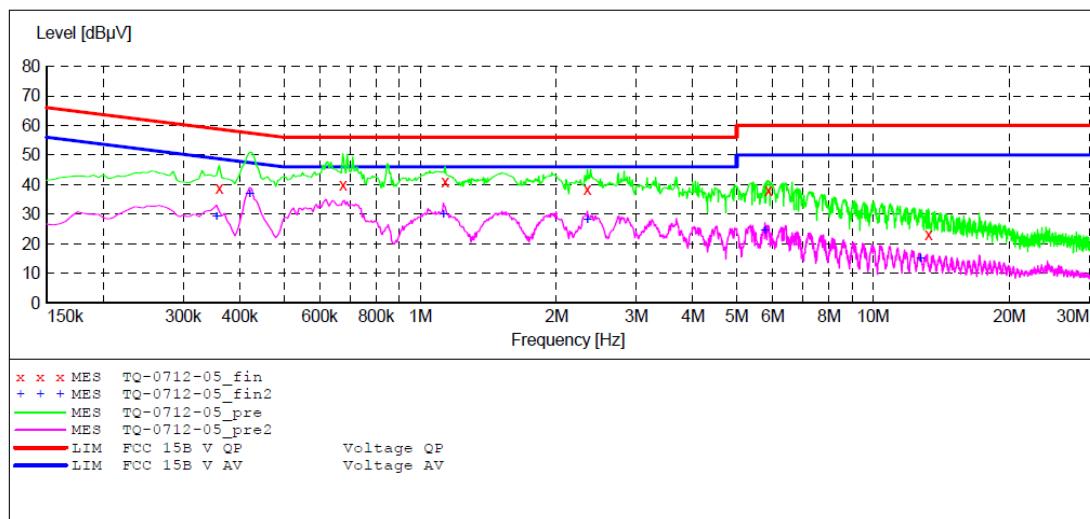
ACCURATE TECHNOLOGY CO., LTD

## CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1504  
 Manufacturer: TQL TRADING INC  
 Operating Condition: TF CARD PLAYING  
 Test Site: 1#Shielding Room  
 Operator: DING  
 Test Specification: L 120V/60Hz  
 Comment: Report NO.:ATE20161336  
 Start of Test: 7/12/2016 / 12:49:47PM

**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: "TQ-0712-05\_fin"**

7/12/2016 12:54PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.360000	38.70	10.6	59	20.0	QP	L1	GND
0.675000	39.80	10.8	56	16.2	QP	L1	GND
1.135000	40.80	10.9	56	15.2	QP	L1	GND
2.340000	38.40	11.0	56	17.6	QP	L1	GND
5.870000	37.90	11.2	60	22.1	QP	L1	GND
13.255000	23.00	11.3	60	37.0	QP	L1	GND

**MEASUREMENT RESULT: "TQ-0712-05\_fin2"**

7/12/2016 12:54PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.355000	29.40	10.6	49	19.4	AV	L1	GND
0.420000	36.90	10.7	47	10.5	AV	L1	GND
1.125000	30.10	10.9	46	15.9	AV	L1	GND
2.340000	28.10	11.0	46	17.9	AV	L1	GND
5.770000	24.70	11.2	50	25.3	AV	L1	GND
12.700000	15.00	11.3	50	35.0	AV	L1	GND

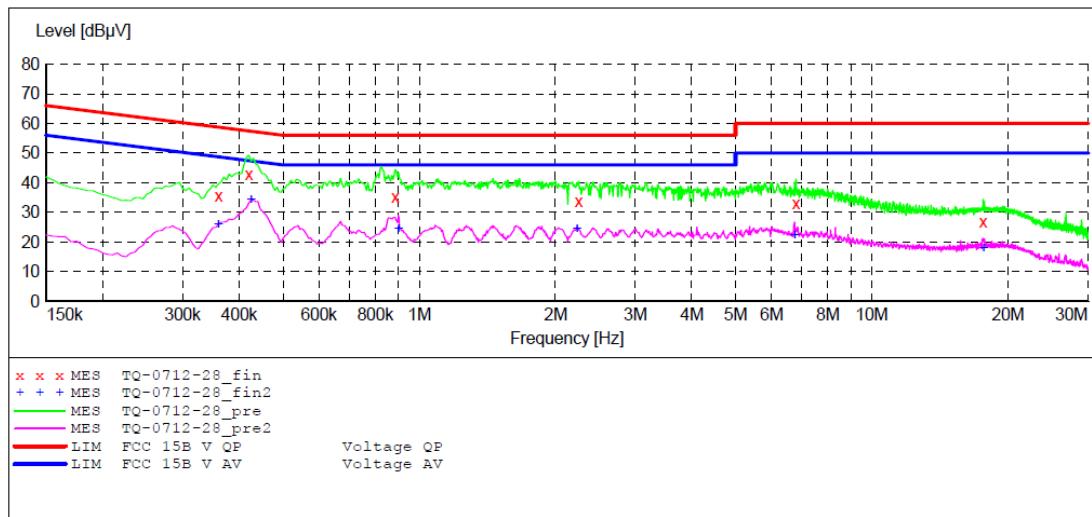
ACCURATE TECHNOLOGY CO., LTD

## CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1504  
 Manufacturer: TQL TRADING INC  
 Operating Condition: TF CARD PLAYING  
 Test Site: 1#Shielding Room  
 Operator: DING  
 Test Specification: L 220V/50Hz  
 Comment: Report NO.:ATE20161336  
 Start of Test: 7/12/2016 / 7:32:48PM

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

Short Description:		SUB STD VTERM2 1.70				
Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
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: "TQ-0712-28\_fin"**

7/12/2016 7:44PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.360000	35.50	10.6	59	23.2	QP	L1	GND
0.420000	42.70	10.7	57	14.7	QP	L1	GND
0.885000	35.10	10.8	56	20.9	QP	L1	GND
2.250000	33.60	11.0	56	22.4	QP	L1	GND
6.800000	33.00	11.2	60	27.0	QP	L1	GND
17.605000	26.70	11.4	60	33.3	QP	L1	GND

**MEASUREMENT RESULT: "TQ-0712-28\_fin2"**

7/12/2016 7:44PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.360000	26.20	10.6	49	22.5	AV	L1	GND
0.425000	34.50	10.7	47	12.8	AV	L1	GND
0.900000	24.50	10.8	46	21.5	AV	L1	GND
2.230000	24.50	11.0	46	21.5	AV	L1	GND
6.750000	22.50	11.2	50	27.5	AV	L1	GND
17.650000	18.20	11.4	50	31.8	AV	L1	GND

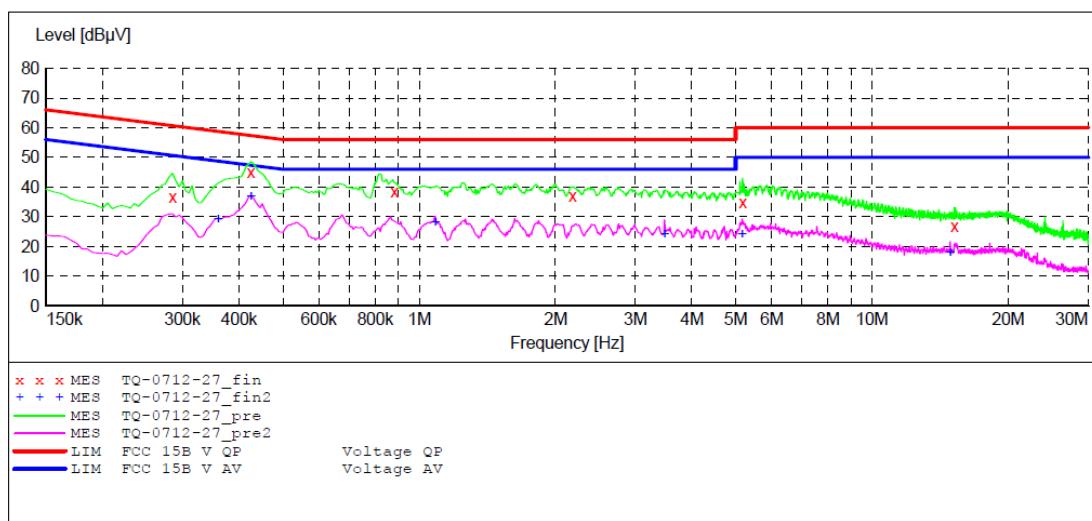
ACCURATE TECHNOLOGY CO., LTD

## CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1504  
 Manufacturer: TQL TRADING INC  
 Operating Condition: TF CARD PLAYING  
 Test Site: 1#Shielding Room  
 Operator: DING  
 Test Specification: N 220V/50Hz  
 Comment: Report NO.:ATE20161336  
 Start of Test: 7/12/2016 / 6:54:37PM

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

Start Frequency	Stop Frequency	Step Width	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	QuasiPeak	1.0 s	9 kHz	NSLK8126 2008
			Average			
			Average			

**MEASUREMENT RESULT: "TQ-0712-27\_fin"**

7/12/2016 7:05PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.285000	36.70	10.6	61	24.0	QP	N	GND
0.425000	44.80	10.7	57	12.5	QP	N	GND
0.880000	38.30	10.8	56	17.7	QP	N	GND
2.180000	36.90	11.0	56	19.1	QP	N	GND
5.180000	34.80	11.2	60	25.2	QP	N	GND
15.205000	26.70	11.4	60	33.3	QP	N	GND

**MEASUREMENT RESULT: "TQ-0712-27\_fin2"**

7/12/2016 7:05PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.360000	29.40	10.6	49	19.3	AV	N	GND
0.425000	37.10	10.7	47	10.2	AV	N	GND
1.085000	28.20	10.9	46	17.8	AV	N	GND
3.480000	24.20	11.1	46	21.8	AV	N	GND
5.170000	24.30	11.2	50	25.7	AV	N	GND
14.875000	18.00	11.4	50	32.0	AV	N	GND

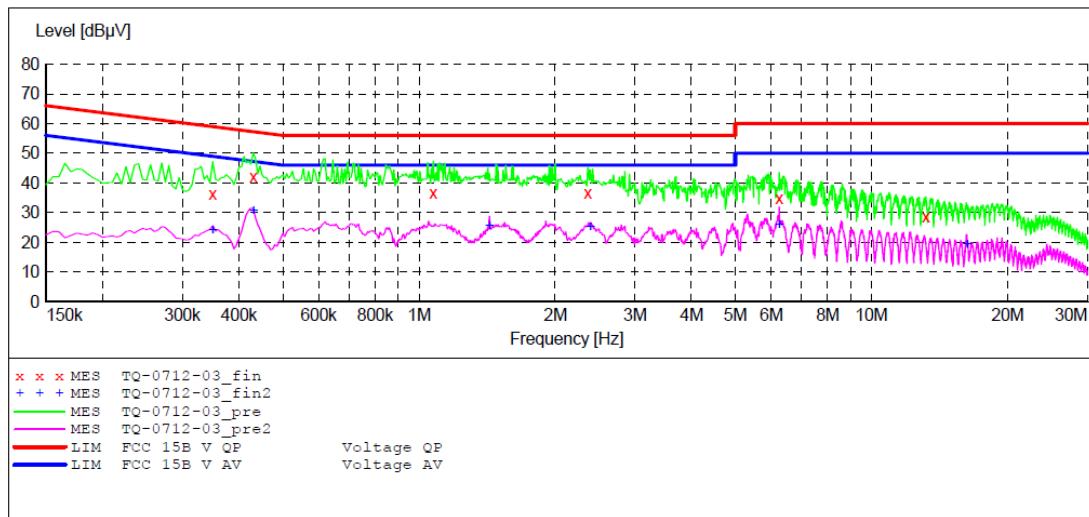
## Test mode 2

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

EUT: SPEAKER M/N:TQ-LT1504  
 Manufacturer: TQL TRADING INC  
 Operating Condition: SD CARD PLAYING  
 Test Site: 1#Shielding Room  
 Operator: DING  
 Test Specification: N 120V/60Hz  
 Comment: Report No.:ATE20161336  
 Start of Test: 7/12/2016 / 12:39:27PM

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

Short Description:		SUB	STD	VTERM2	1.70	
Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF	Transducer
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: "TQ-0712-03\_fin"**

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.350000	36.10	10.6	59	22.9	QP	N	GND
0.430000	42.00	10.7	57	15.3	QP	N	GND
1.075000	36.50	10.9	56	19.5	QP	N	GND
2.360000	36.40	11.0	56	19.6	QP	N	GND
6.250000	34.80	11.2	60	25.2	QP	N	GND
13.180000	28.50	11.3	60	31.5	QP	N	GND

**MEASUREMENT RESULT: "TQ-0712-03\_fin2"**

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.350000	24.30	10.6	49	24.7	AV	N	GND
0.430000	30.60	10.7	47	16.7	AV	N	GND
1.430000	25.50	10.9	46	20.5	AV	N	GND
2.390000	25.20	11.0	46	20.8	AV	N	GND
6.250000	26.10	11.2	50	23.9	AV	N	GND
16.240000	19.40	11.4	50	30.6	AV	N	GND

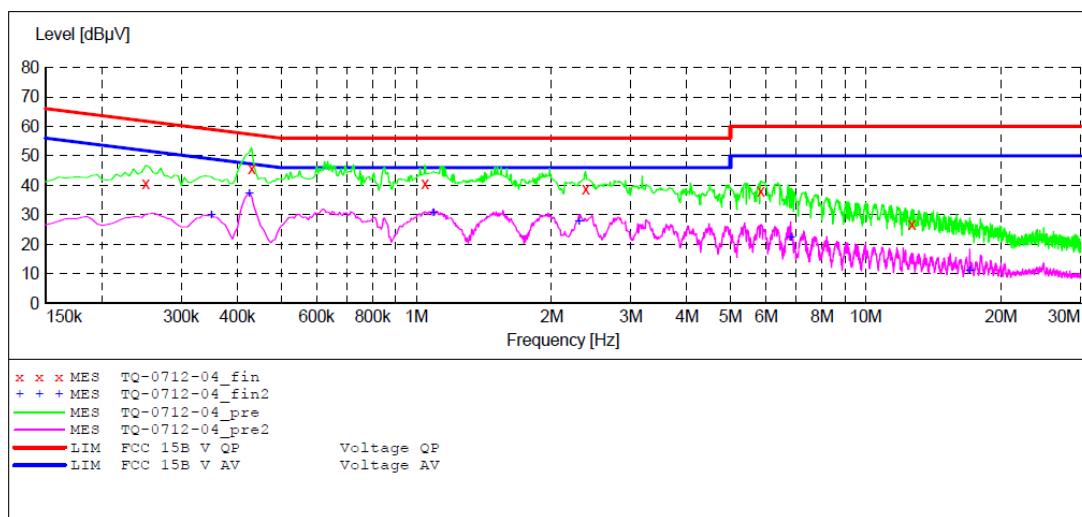
ACCURATE TECHNOLOGY CO., LTD

## CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1504  
 Manufacturer: TQL TRADING INC  
 Operating Condition: SD CARD PLAYING  
 Test Site: 1#Shielding Room  
 Operator: DING  
 Test Specification: L 120V/60Hz  
 Comment: Report NO.:ATE20161336  
 Start of Test: 7/12/2016 / 12:44:49PM

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

Start Frequency	Stop Frequency	Step Width	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	QuasiPeak	1.0 s	9 kHz	NSLK8126 2008
			Average			
			QuasiPeak	1.0 s		
			Average			

**MEASUREMENT RESULT: "TQ-0712-04\_fin"**

7/12/2016 12:49PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.250000	40.40	10.6	62	21.4	QP	L1	GND
0.430000	45.60	10.7	57	11.7	QP	L1	GND
1.045000	40.40	10.9	56	15.6	QP	L1	GND
2.380000	38.80	11.0	56	17.2	QP	L1	GND
5.840000	38.20	11.2	60	21.8	QP	L1	GND
12.655000	26.70	11.3	60	33.3	QP	L1	GND

**MEASUREMENT RESULT: "TQ-0712-04\_fin2"**

7/12/2016 12:49PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.350000	29.90	10.6	49	19.1	AV	L1	GND
0.425000	37.30	10.7	47	10.0	AV	L1	GND
1.090000	30.60	10.9	46	15.4	AV	L1	GND
2.300000	28.00	11.0	46	18.0	AV	L1	GND
6.810000	22.40	11.2	50	27.6	AV	L1	GND
17.020000	11.00	11.4	50	39.0	AV	L1	GND

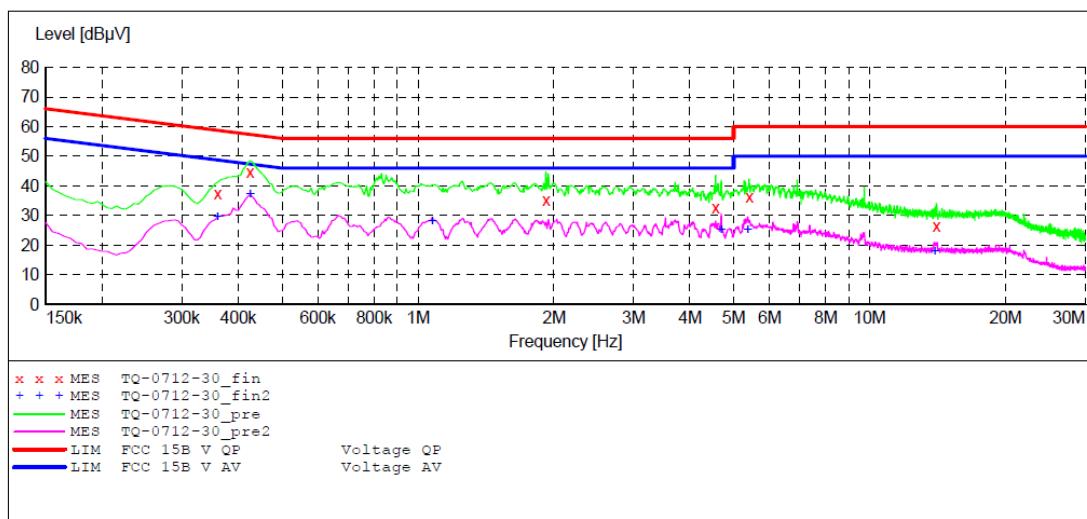
## ACCURATE TECHNOLOGY CO., LTD

## CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1504  
 Manufacturer: TQL TRADING INC  
 Operating Condition: SD CARD PLAYING  
 Test Site: 1#Shielding Room  
 Operator: DING  
 Test Specification: N 220V/50Hz  
 Comment: Report NO.:ATE20161336  
 Start of Test: 7/12/2016 / 7:50:01PM

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

Short Description:			SUB STD VTERM2 1.70	IF	Transducer
Start Frequency	Stop Frequency	Step Width	Detector Meas. 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: "TQ-0712-30\_fin"**

7/12/2016 7:59PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.360000	37.40	10.6	59	21.3	QP	N	GND
0.425000	44.70	10.7	57	12.6	QP	N	GND
1.920000	35.00	11.0	56	21.0	QP	N	GND
4.560000	32.60	11.1	56	23.4	QP	N	GND
5.410000	36.30	11.2	60	23.7	QP	N	GND
14.050000	26.30	11.4	60	33.7	QP	N	GND

**MEASUREMENT RESULT: "TQ-0712-30\_fin2"**

7/12/2016 7:59PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.360000	29.50	10.6	49	19.2	AV	N	GND
0.425000	37.40	10.7	47	9.9	AV	N	GND
1.075000	28.10	10.9	46	17.9	AV	N	GND
4.690000	25.20	11.1	46	20.8	AV	N	GND
5.370000	25.30	11.2	50	24.7	AV	N	GND
13.915000	18.00	11.4	50	32.0	AV	N	GND

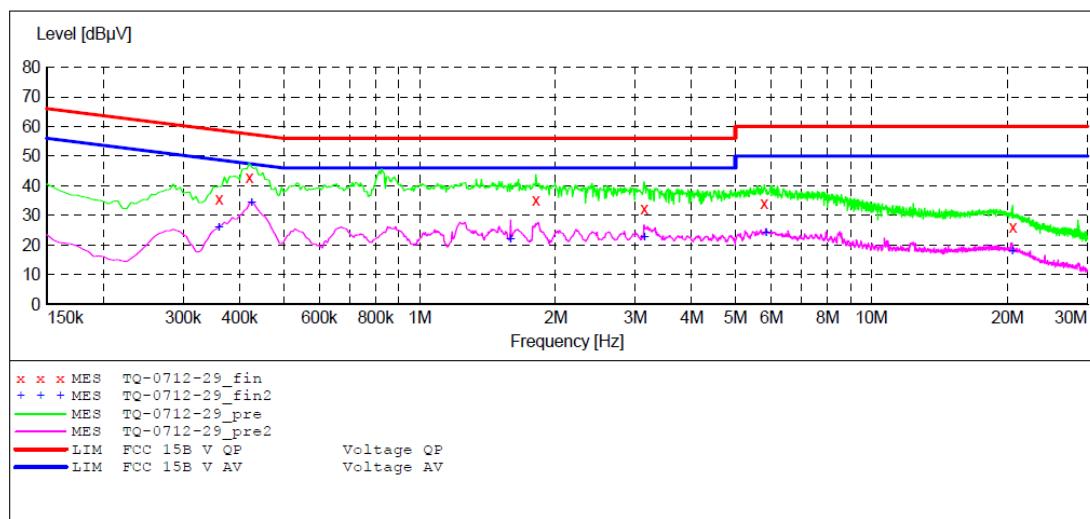
ACCURATE TECHNOLOGY CO., LTD

## CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1504  
 Manufacturer: TQL TRADING INC  
 Operating Condition: SD CARD PLAYING  
 Test Site: 1#Shielding Room  
 Operator: DING  
 Test Specification: L 220V/50Hz  
 Comment: Report NO.:ATE20161336  
 Start of Test: 7/12/2016 / 7:45:10PM

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

Short Description:		SUB STD VTERM2 1.70				
Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Time	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	QuasiPeak	1.0 s	9 kHz	NSLK8126 2008
			Average			
			Average			

**MEASUREMENT RESULT: "TQ-0712-29\_fin"**

7/12/2016 7:49PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.360000	35.60	10.6	59	23.1	QP	L1	GND
0.420000	42.80	10.7	57	14.6	QP	L1	GND
1.810000	35.00	11.0	56	21.0	QP	L1	GND
3.140000	32.10	11.1	56	23.9	QP	L1	GND
5.790000	34.10	11.2	60	25.9	QP	L1	GND
20.530000	25.90	11.4	60	34.1	QP	L1	GND

**MEASUREMENT RESULT: "TQ-0712-29\_fin2"**

7/12/2016 7:49PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.360000	26.20	10.6	49	22.5	AV	L1	GND
0.425000	34.40	10.7	47	12.9	AV	L1	GND
1.590000	22.20	10.9	46	23.8	AV	L1	GND
3.140000	22.60	11.1	46	23.4	AV	L1	GND
5.840000	24.10	11.2	50	25.9	AV	L1	GND
20.470000	17.90	11.4	50	32.1	AV	L1	GND

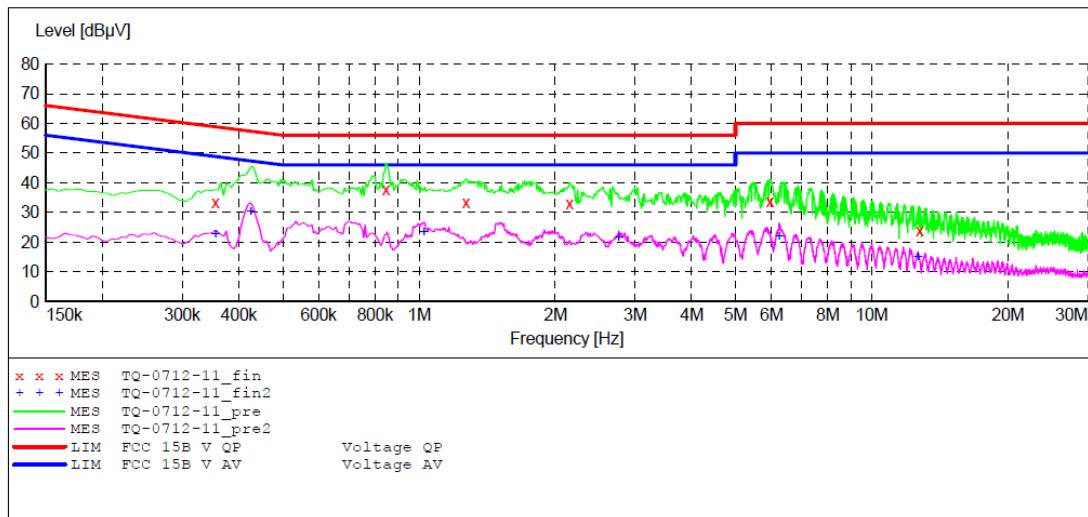
## Test mode 3

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

EUT: SPEAKER M/N:TQ-LT1504  
 Manufacturer: TQL TRADING INC  
 Operating Condition: AUDIO IN  
 Test Site: 1#Shielding Room  
 Operator: DING  
 Test Specification: N 120V/60Hz  
 Comment: Report NO.:ATE20161336  
 Start of Test: 7/12/2016 / 1:18:10PM

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

Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Time	Transducer 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: "TQ-0712-11\_fin"**

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.355000	33.30	10.6	59	25.5	QP	N	GND
0.845000	37.80	10.8	56	18.2	QP	N	GND
1.270000	33.20	10.9	56	22.8	QP	N	GND
2.150000	33.00	11.0	56	23.0	QP	N	GND
5.960000	33.80	11.2	60	26.2	QP	N	GND
12.760000	23.70	11.3	60	36.3	QP	N	GND

**MEASUREMENT RESULT: "TQ-0712-11\_fin2"**

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.355000	22.70	10.6	49	26.1	AV	N	GND
0.425000	30.50	10.7	47	16.8	AV	N	GND
1.025000	23.50	10.8	46	22.5	AV	N	GND
2.760000	21.50	11.0	46	24.5	AV	N	GND
6.240000	21.90	11.2	50	28.1	AV	N	GND
12.640000	15.30	11.3	50	34.7	AV	N	GND

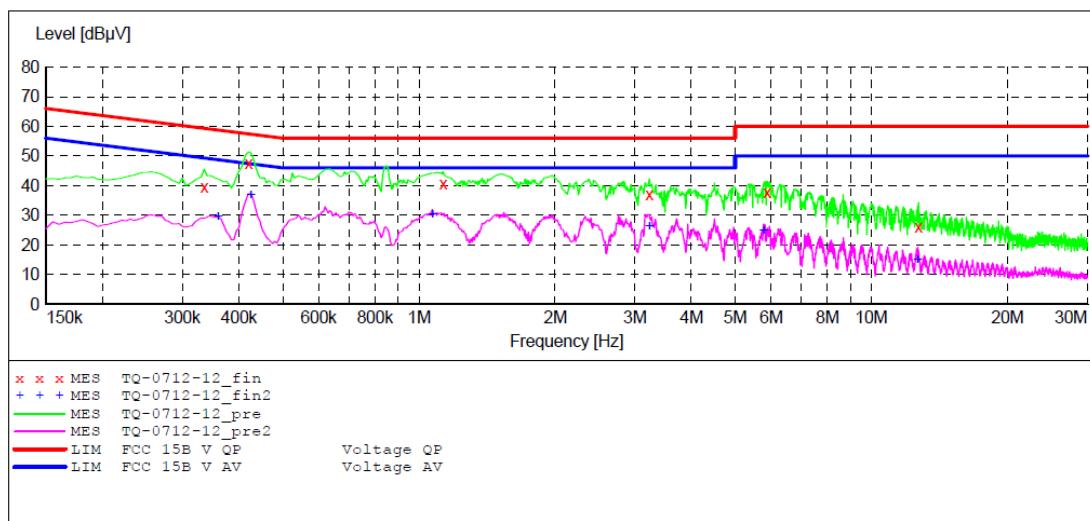
ACCURATE TECHNOLOGY CO., LTD

## CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1504  
 Manufacturer: TQL TRADING INC  
 Operating Condition: AUDIO IN  
 Test Site: 1#Shielding Room  
 Operator: DING  
 Test Specification: L 120V/60Hz  
 Comment: Report NO.:ATE20161336  
 Start of Test: 7/12/2016 / 1:22:53PM

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

Short Description:		SUB STD VTERM2 1.70				
Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Time	Transducer
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: "TQ-0712-12\_fin"**

7/12/2016 1:27PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.335000	39.30	10.6	59	20.0	QP	L1	GND
0.420000	47.40	10.7	57	10.0	QP	L1	GND
1.130000	40.70	10.9	56	15.3	QP	L1	GND
3.230000	36.80	11.1	56	19.2	QP	L1	GND
5.880000	37.70	11.2	60	22.3	QP	L1	GND
12.715000	26.10	11.3	60	33.9	QP	L1	GND

**MEASUREMENT RESULT: "TQ-0712-12\_fin2"**

7/12/2016 1:27PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.360000	29.60	10.6	49	19.1	AV	L1	GND
0.425000	36.90	10.7	47	10.4	AV	L1	GND
1.070000	30.30	10.9	46	15.7	AV	L1	GND
3.230000	26.50	11.1	46	19.5	AV	L1	GND
5.780000	25.00	11.2	50	25.0	AV	L1	GND
12.655000	15.20	11.3	50	34.8	AV	L1	GND

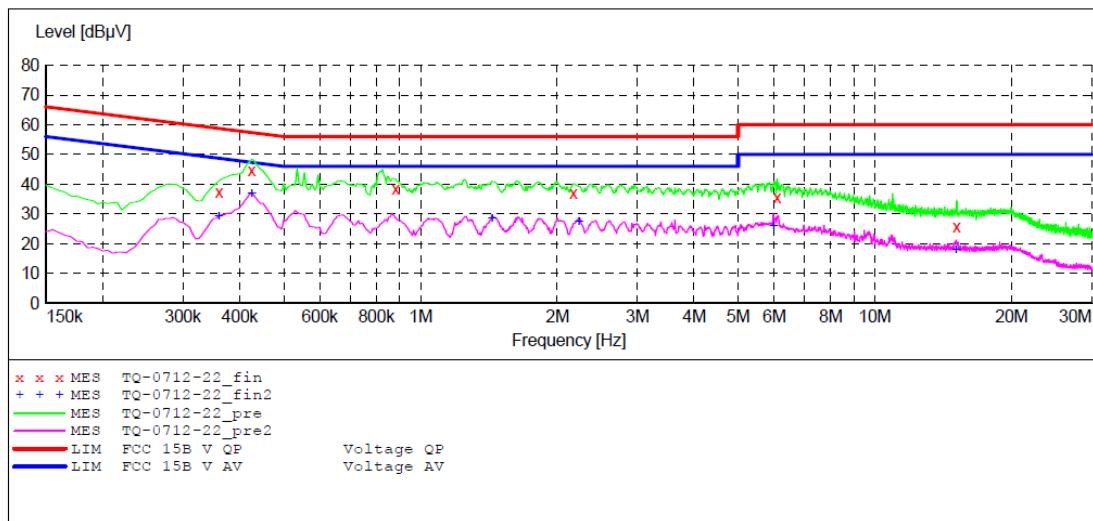
ACCURATE TECHNOLOGY CO., LTD

## CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1504  
 Manufacturer: TQL TRADING INC  
 Operating Condition: AUDIO IN  
 Test Site: 1#Shielding Room  
 Operator: DING  
 Test Specification: N 220V/50Hz  
 Comment: Report NO.:ATE20161336  
 Start of Test: 7/12/2016 / 5:59:42PM

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

Short Description:		SUB STD VTERM2 1.70				
Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF	Transducer
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: "TQ-0712-22\_fin"**

7/12/2016 6:03PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.360000	37.40	10.6	59	21.3	QP	N	GND
0.425000	44.60	10.7	57	12.7	QP	N	GND
0.880000	38.30	10.8	56	17.7	QP	N	GND
2.170000	36.80	11.0	56	19.2	QP	N	GND
6.090000	35.50	11.2	60	24.5	QP	N	GND
15.130000	25.60	11.4	60	34.4	QP	N	GND

**MEASUREMENT RESULT: "TQ-0712-22\_fin2"**

7/12/2016 6:03PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.360000	29.30	10.6	49	19.4	AV	N	GND
0.425000	37.00	10.7	47	10.3	AV	N	GND
1.435000	28.40	10.9	46	17.6	AV	N	GND
2.230000	27.60	11.0	46	18.4	AV	N	GND
5.980000	26.10	11.2	50	23.9	AV	N	GND
15.085000	17.90	11.4	50	32.1	AV	N	GND

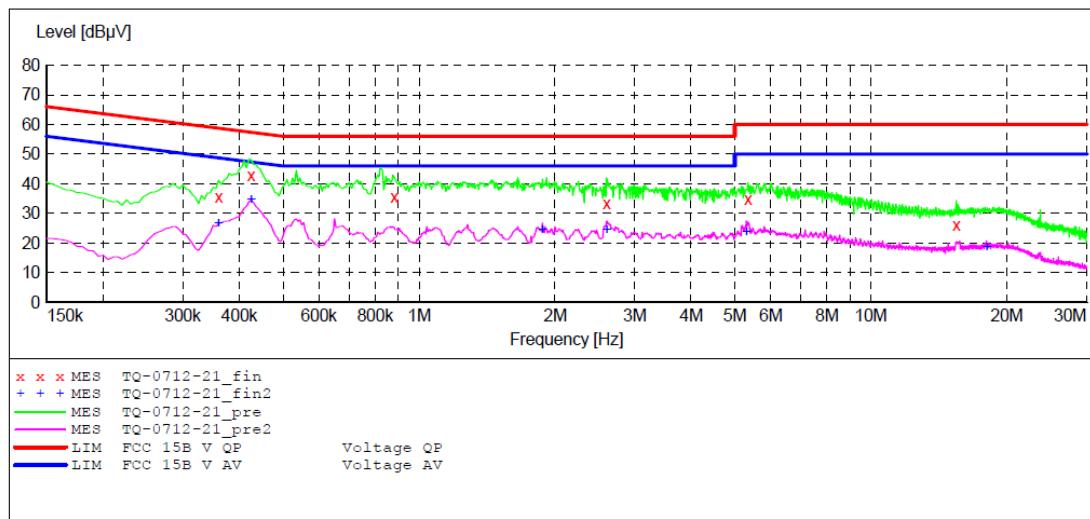
ACCURATE TECHNOLOGY CO., LTD

## CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1504  
 Manufacturer: TQL TRADING INC  
 Operating Condition: AUDIO IN  
 Test Site: 1#Shielding Room  
 Operator: DING  
 Test Specification: L 220V/50Hz  
 Comment: Report NO.:ATE20161336  
 Start of Test: 7/12/2016 / 5:49:49PM

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

Short Description:		SUB STD VTERM2 1.70				
Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Time	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	QuasiPeak	1.0 s	9 kHz	NSLK8126 2008
			Average			
			QuasiPeak	1.0 s		
			Average			

**MEASUREMENT RESULT: "TQ-0712-21\_fin"**

7/12/2016 5:59PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.360000	35.40	10.6	59	23.3	QP	L1	GND
0.425000	42.70	10.7	57	14.6	QP	L1	GND
0.880000	35.40	10.8	56	20.6	QP	L1	GND
2.600000	33.20	11.0	56	22.8	QP	L1	GND
5.350000	34.60	11.2	60	25.4	QP	L1	GND
15.460000	26.10	11.4	60	33.9	QP	L1	GND

**MEASUREMENT RESULT: "TQ-0712-21\_fin2"**

7/12/2016 5:59PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.360000	26.80	10.6	49	21.9	AV	L1	GND
0.425000	34.60	10.7	47	12.7	AV	L1	GND
1.875000	24.50	11.0	46	21.5	AV	L1	GND
2.600000	24.50	11.0	46	21.5	AV	L1	GND
5.300000	23.80	11.2	50	26.2	AV	L1	GND
18.025000	18.80	11.4	50	31.2	AV	L1	GND

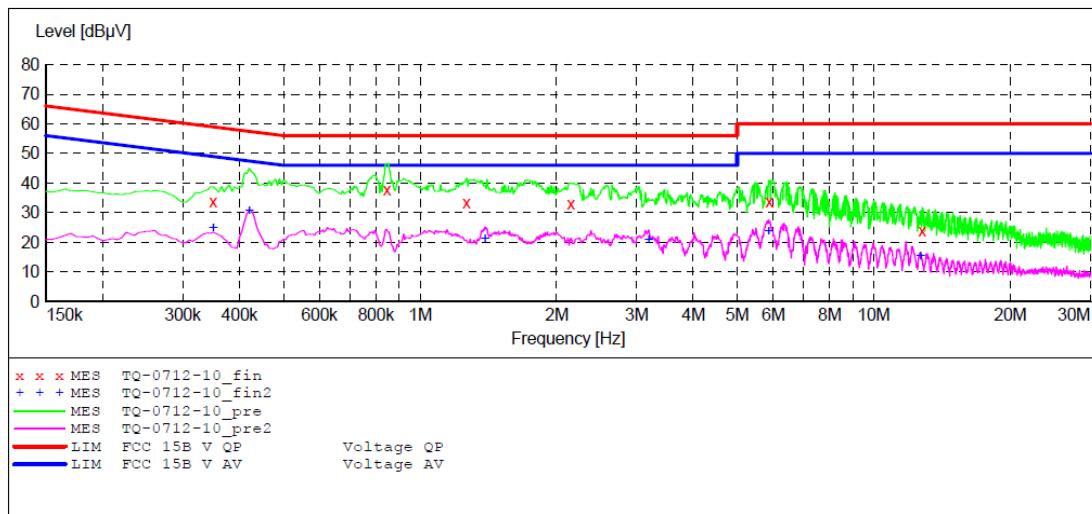
## Test mode 4

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

EUT: SPEAKER M/N:TQ-LT1504  
 Manufacturer: TQL TRADING INC  
 Operating Condition: 202.2MHz RX  
 Test Site: 1#Shielding Room  
 Operator: DING  
 Test Specification: N 120V/60Hz  
 Comment: Report NO.:ATE20161336  
 Start of Test: 7/12/2016 / 1:13:28PM

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

Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Time	Transducer 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: "TQ-0712-10\_fin"**

7/12/2016 1:17PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.350000	33.50	10.6	59	25.5	QP	N	GND
0.845000	37.60	10.8	56	18.4	QP	N	GND
1.265000	33.30	10.9	56	22.7	QP	N	GND
2.150000	32.90	11.0	56	23.1	QP	N	GND
5.880000	33.60	11.2	60	26.4	QP	N	GND
12.790000	23.70	11.3	60	36.3	QP	N	GND

**MEASUREMENT RESULT: "TQ-0712-10\_fin2"**

7/12/2016 1:17PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.350000	24.90	10.6	49	24.1	AV	N	GND
0.420000	30.60	10.7	47	16.8	AV	N	GND
1.390000	21.40	10.9	46	24.6	AV	N	GND
3.190000	21.10	11.1	46	24.9	AV	N	GND
5.860000	23.90	11.2	50	26.1	AV	N	GND
12.670000	15.40	11.3	50	34.6	AV	N	GND

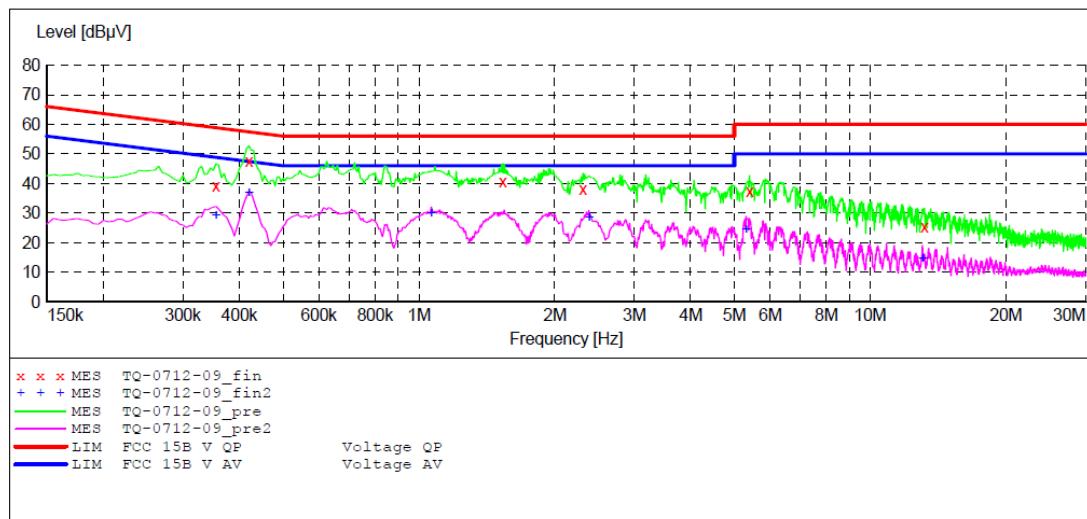
## ACCURATE TECHNOLOGY CO., LTD

## CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1504  
 Manufacturer: TQL TRADING INC  
 Operating Condition: 202.2MHz RX  
 Test Site: 1#Shielding Room  
 Operator: DING  
 Test Specification: L 120V/60Hz  
 Comment: Report NO.:ATE20161336  
 Start of Test: 7/12/2016 / 1:08:47PM

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

Short Description:			SUB STD VTERM2 1.70	IF	Transducer
Start Frequency	Stop Frequency	Step Width	Detector Meas. 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	9 kHz	NSLK8126 2008
			QuasiPeak 1.0 s		
			Average		

**MEASUREMENT RESULT: "TQ-0712-09\_fin"**

7/12/2016 1:12PM	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dB $\mu$ V	dB	dB $\mu$ V	dB			
	0.355000	39.30	10.6	59	19.5	QP	L1	GND
	0.420000	47.50	10.7	57	9.9	QP	L1	GND
	1.535000	40.70	10.9	56	15.3	QP	L1	GND
	2.310000	38.00	11.0	56	18.0	QP	L1	GND
	5.400000	37.20	11.2	60	22.8	QP	L1	GND
	13.180000	25.30	11.3	60	34.7	QP	L1	GND

**MEASUREMENT RESULT: "TQ-0712-09\_fin2"**

7/12/2016 1:12PM	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dB $\mu$ V	dB	dB $\mu$ V	dB			
	0.355000	29.40	10.6	49	19.4	AV	L1	GND
	0.420000	37.00	10.7	47	10.4	AV	L1	GND
	1.065000	30.20	10.9	46	15.8	AV	L1	GND
	2.380000	28.40	11.0	46	17.6	AV	L1	GND
	5.310000	24.40	11.2	50	25.6	AV	L1	GND
	13.060000	14.70	11.3	50	35.3	AV	L1	GND

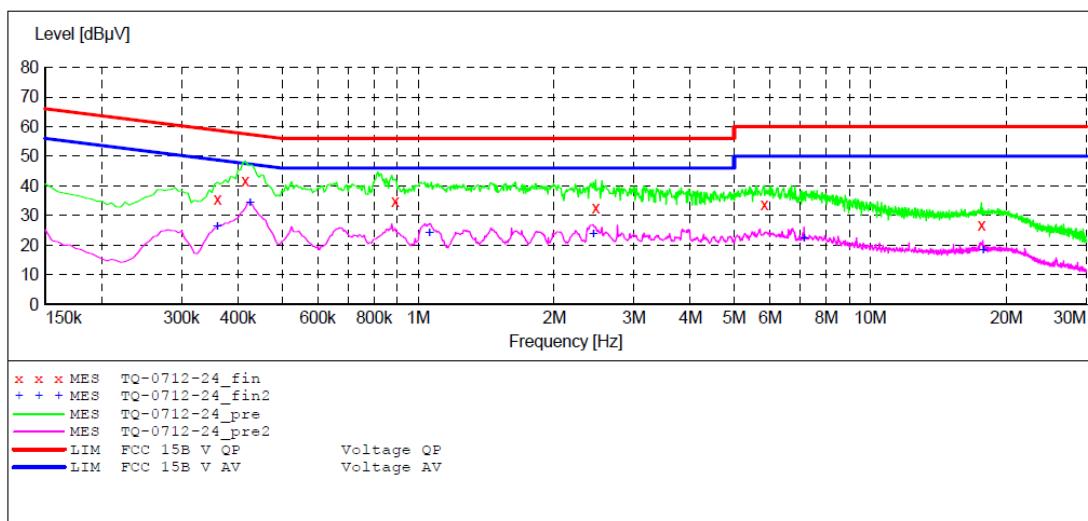
## ACCURATE TECHNOLOGY CO., LTD

## CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1504  
 Manufacturer: TQL TRADING INC  
 Operating Condition: 202.2MHz RX  
 Test Site: 1#Shielding Room  
 Operator: DING  
 Test Specification: L 220V/50Hz  
 Comment: Report NO.:ATE20161336  
 Start of Test: 7/12/2016 / 6:13:36PM

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

Short Description:			SUB STD VTERM2 1.70	IF	Transducer
Start Frequency	Stop Frequency	Step Width	Detector Meas. 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: "TQ-0712-24\_fin"**

7/12/2016 6:25PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.360000	35.50	10.6	59	23.2	QP	L1	GND
0.415000	41.80	10.7	58	15.7	QP	L1	GND
0.890000	34.70	10.8	56	21.3	QP	L1	GND
2.470000	32.70	11.0	56	23.3	QP	L1	GND
5.830000	33.60	11.2	60	26.4	QP	L1	GND
17.620000	26.70	11.4	60	33.3	QP	L1	GND

**MEASUREMENT RESULT: "TQ-0712-24\_fin2"**

7/12/2016 6:25PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.360000	26.30	10.6	49	22.4	AV	L1	GND
0.425000	34.40	10.7	47	12.9	AV	L1	GND
1.060000	24.30	10.9	46	21.7	AV	L1	GND
2.440000	24.00	11.0	46	22.0	AV	L1	GND
7.130000	22.50	11.2	50	27.5	AV	L1	GND
17.740000	18.40	11.4	50	31.6	AV	L1	GND

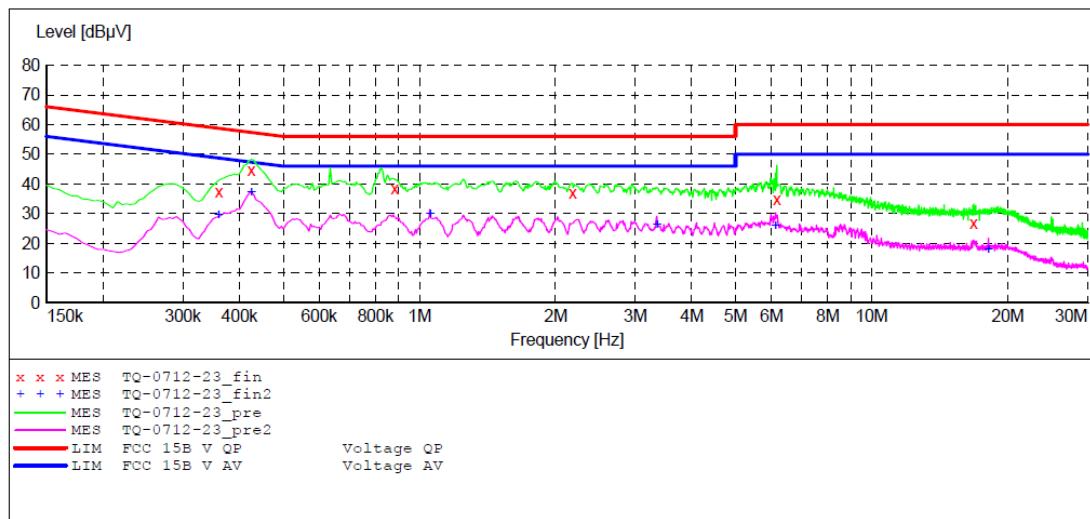
ACCURATE TECHNOLOGY CO., LTD

## CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1504  
 Manufacturer: TQL TRADING INC  
 Operating Condition: 202.2MHz RX  
 Test Site: 1#Shielding Room  
 Operator: DING  
 Test Specification: N 220V/50Hz  
 Comment: Report NO.:ATE20161336  
 Start of Test: 7/12/2016 / 6:03:46PM

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

Short Description:		SUB STD VTERM2 1.70				
Start Frequency	Stop Frequency	Step Width	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	QuasiPeak	1.0 s	9 kHz	NSLK8126 2008
			Average			
			Average			

**MEASUREMENT RESULT: "TQ-0712-23\_fin"**

7/12/2016 6:13PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.360000	37.40	10.6	59	21.3	QP	N	GND
0.425000	44.60	10.7	57	12.7	QP	N	GND
0.880000	38.40	10.8	56	17.6	QP	N	GND
2.180000	36.90	11.0	56	19.1	QP	N	GND
6.170000	34.70	11.2	60	25.3	QP	N	GND
16.810000	26.80	11.4	60	33.2	QP	N	GND

**MEASUREMENT RESULT: "TQ-0712-23\_fin2"**

7/12/2016 6:13PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.360000	29.50	10.6	49	19.2	AV	N	GND
0.425000	37.20	10.7	47	10.1	AV	N	GND
1.055000	30.10	10.9	46	15.9	AV	N	GND
3.350000	26.40	11.1	46	19.6	AV	N	GND
6.130000	26.00	11.2	50	24.0	AV	N	GND
18.130000	18.00	11.4	50	32.0	AV	N	GND

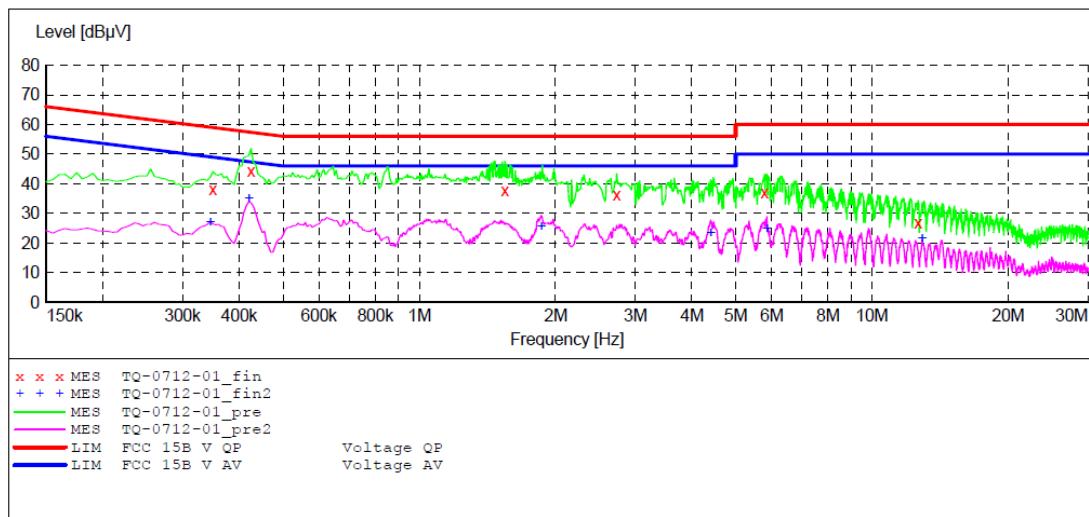
## Test mode 5

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

EUT: SPEAKER M/N:TQ-LT1504  
 Manufacturer: TQL TRADING INC  
 Operating Condition: USB PLAYING  
 Test Site: 1#Shielding Room  
 Operator: DING  
 Test Specification: L 120V/60Hz  
 Comment: Report NO.:ATE20161336  
 Start of Test: 7/12/2016 / 10:42:13AM

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

Short Description:			SUB	STD	VTERM2	1.70
Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF	Transducer
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: "TQ-0712-01\_fin"**

7/12/2016 10:43AM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.350000	38.20	10.6	59	20.8	QP	L1	GND
0.425000	44.30	10.7	57	13.0	QP	L1	GND
1.545000	37.80	10.9	56	18.2	QP	L1	GND
2.730000	36.10	11.0	56	19.9	QP	L1	GND
5.790000	36.90	11.2	60	23.1	QP	L1	GND
12.640000	26.80	11.3	60	33.2	QP	L1	GND

**MEASUREMENT RESULT: "TQ-0712-01\_fin2"**

7/12/2016 10:43AM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.345000	27.00	10.6	49	22.1	AV	L1	GND
0.420000	35.00	10.7	47	12.4	AV	L1	GND
1.860000	25.70	11.0	46	20.3	AV	L1	GND
4.400000	23.60	11.1	46	22.4	AV	L1	GND
5.860000	24.90	11.2	50	25.1	AV	L1	GND
12.910000	21.50	11.3	50	28.5	AV	L1	GND

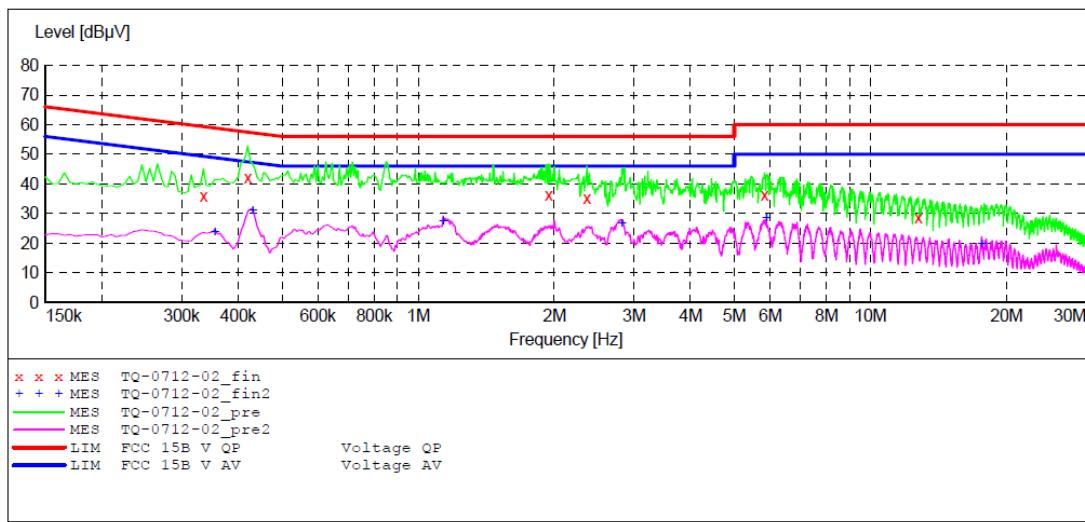
ACCURATE TECHNOLOGY CO., LTD

## CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1504  
 Manufacturer: TQL TRADING INC  
 Operating Condition: USB PLAYING  
 Test Site: 1#Shielding Room  
 Operator: DING  
 Test Specification: N 120V/60Hz  
 Comment: Report NO.:ATE20161336  
 Start of Test: 7/12/2016 / 12:34:27PM

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

Short Description:		SUB STD VTERM2 1.70			
Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF 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: "TQ-0712-02\_fin"**

7/12/2016 12:38PM	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dB $\mu$ V	dB	dB $\mu$ V	dB			
	0.335000	35.80	10.6	59	23.5	QP	N	GND
	0.420000	42.10	10.7	57	15.3	QP	N	GND
	1.940000	36.10	11.0	56	19.9	QP	N	GND
	2.360000	35.00	11.0	56	21.0	QP	N	GND
	5.830000	36.20	11.2	60	23.8	QP	N	GND
	12.745000	28.40	11.3	60	31.6	QP	N	GND

**MEASUREMENT RESULT: "TQ-0712-02\_fin2"**

7/12/2016 12:38PM	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dB $\mu$ V	dB	dB $\mu$ V	dB			
	0.355000	23.80	10.6	49	25.0	AV	N	GND
	0.430000	31.30	10.7	47	16.0	AV	N	GND
	1.135000	27.50	10.9	46	18.5	AV	N	GND
	2.820000	26.90	11.0	46	19.1	AV	N	GND
	5.880000	28.60	11.2	50	21.4	AV	N	GND
	17.605000	20.00	11.4	50	30.0	AV	N	GND

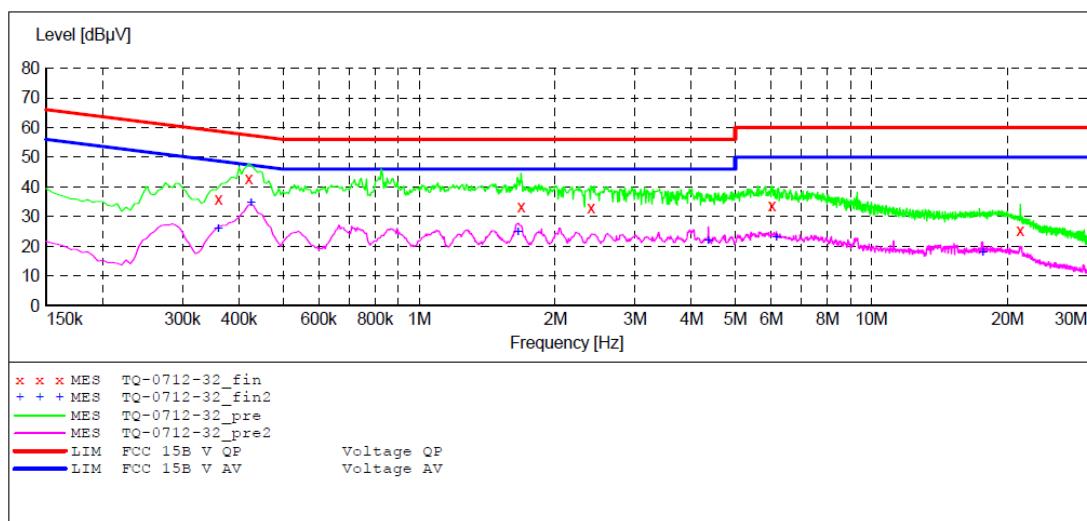
ACCURATE TECHNOLOGY CO., LTD

## CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1504  
 Manufacturer: TQL TRADING INC  
 Operating Condition: USB PLAYING  
 Test Site: 1#Shielding Room  
 Operator: DING  
 Test Specification: L 220V/50Hz  
 Comment: Report NO.:ATE20161336  
 Start of Test: 7/12/2016 / 8:09:21PM

**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: "TQ-0712-32\_fin"**

7/12/2016 8:14PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.360000	35.70	10.6	59	23.0	QP	L1	GND
0.420000	42.90	10.7	57	14.5	QP	L1	GND
1.680000	33.30	10.9	56	22.7	QP	L1	GND
2.400000	33.00	11.0	56	23.0	QP	L1	GND
6.020000	33.80	11.2	60	26.2	QP	L1	GND
21.325000	25.40	11.4	60	34.6	QP	L1	GND

**MEASUREMENT RESULT: "TQ-0712-32\_fin2"**

7/12/2016 8:14PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.360000	26.20	10.6	49	22.5	AV	L1	GND
0.425000	34.60	10.7	47	12.7	AV	L1	GND
1.655000	24.90	10.9	46	21.1	AV	L1	GND
4.360000	21.90	11.1	46	24.1	AV	L1	GND
6.160000	23.20	11.2	50	26.8	AV	L1	GND
17.605000	18.20	11.4	50	31.8	AV	L1	GND

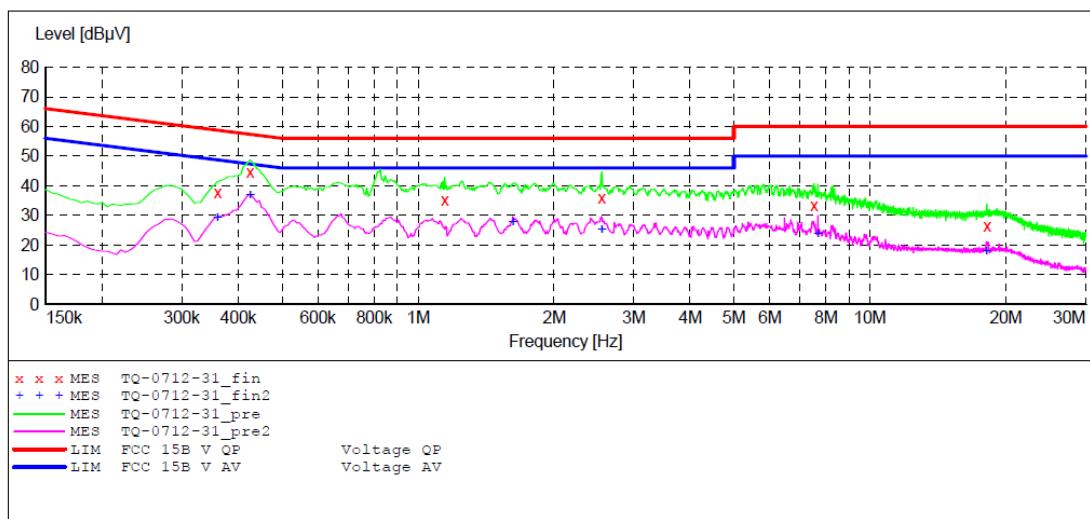
ACCURATE TECHNOLOGY CO., LTD

## CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1504  
 Manufacturer: TQL TRADING INC  
 Operating Condition: USB PLAYING  
 Test Site: 1#Shielding Room  
 Operator: DING  
 Test Specification: N 220V/50Hz  
 Comment: Report NO.:ATE20161336  
 Start of Test: 7/12/2016 / 8:00:23PM

**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: "TQ-0712-31\_fin"**

7/12/2016 8:08PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.360000	37.60	10.6	59	21.1	QP	N	GND
0.425000	44.70	10.7	57	12.6	QP	N	GND
1.145000	35.10	10.9	56	20.9	QP	N	GND
2.550000	35.90	11.0	56	20.1	QP	N	GND
7.520000	33.30	11.2	60	26.7	QP	N	GND
18.145000	26.30	11.4	60	33.7	QP	N	GND

**MEASUREMENT RESULT: "TQ-0712-31\_fin2"**

7/12/2016 8:08PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.360000	29.40	10.6	49	19.3	AV	N	GND
0.425000	36.90	10.7	47	10.4	AV	N	GND
1.620000	27.90	10.9	46	18.1	AV	N	GND
2.550000	25.20	11.0	46	20.8	AV	N	GND
7.670000	23.80	11.2	50	26.2	AV	N	GND
18.100000	18.00	11.4	50	32.0	AV	N	GND

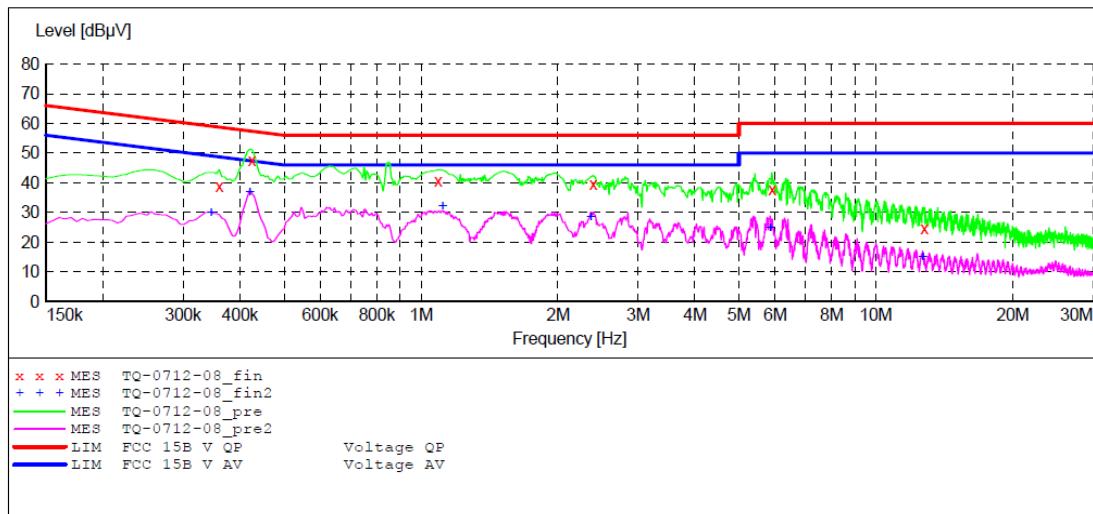
## Test mode 6

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

EUT: SPEAKER M/N:TQ-LT1504  
 Manufacturer: TQL TRADING INC  
 Operating Condition: FM  
 Test Site: 1#Shielding Room  
 Operator: DING  
 Test Specification: L 120V/60Hz  
 Comment: Report NO.:ATE20161336  
 Start of Test: 7/12/2016 / 1:04:09PM

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

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

**MEASUREMENT RESULT: "TQ-0712-08\_fin"**

7/12/2016 1:08PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.360000	38.80	10.6	59	19.9	QP	L1	GND
0.425000	47.30	10.7	57	10.0	QP	L1	GND
1.090000	40.70	10.9	56	15.3	QP	L1	GND
2.390000	39.40	11.0	56	16.6	QP	L1	GND
5.910000	37.70	11.2	60	22.3	QP	L1	GND
12.790000	24.60	11.3	60	35.4	QP	L1	GND

**MEASUREMENT RESULT: "TQ-0712-08\_fin2"**

7/12/2016 1:08PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.345000	29.90	10.6	49	19.2	AV	L1	GND
0.420000	37.10	10.7	47	10.3	AV	L1	GND
1.115000	32.10	10.9	46	13.9	AV	L1	GND
2.360000	28.50	11.0	46	17.5	AV	L1	GND
5.850000	25.00	11.2	50	25.0	AV	L1	GND
12.670000	15.00	11.3	50	35.0	AV	L1	GND

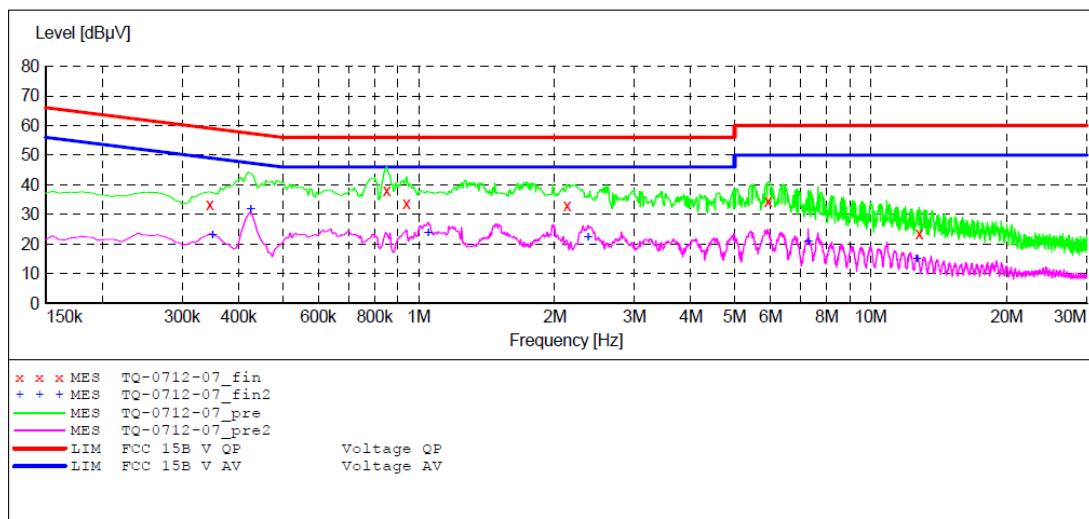
ACCURATE TECHNOLOGY CO., LTD

## CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1504  
 Manufacturer: TQL TRADING INC  
 Operating Condition: FM  
 Test Site: 1#Shielding Room  
 Operator: DING  
 Test Specification: N 120V/60Hz  
 Comment: Report NO.:ATE20161336  
 Start of Test: 7/12/2016 / 12:59:30PM

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

Short Description:		SUB STD VTERM2 1.70				
Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
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: "TQ-0712-07\_fin"**

7/12/2016 1:03PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.345000	33.40	10.6	59	25.7	QP	N	GND
0.850000	38.00	10.8	56	18.0	QP	N	GND
0.940000	33.70	10.8	56	22.3	QP	N	GND
2.130000	33.00	11.0	56	23.0	QP	N	GND
5.930000	34.30	11.2	60	25.7	QP	N	GND
12.790000	23.30	11.3	60	36.7	QP	N	GND

**MEASUREMENT RESULT: "TQ-0712-07\_fin2"**

7/12/2016 1:03PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.350000	23.10	10.6	49	25.9	AV	N	GND
0.425000	31.80	10.7	47	15.5	AV	N	GND
1.050000	23.70	10.9	46	22.3	AV	N	GND
2.370000	22.30	11.0	46	23.7	AV	N	GND
7.270000	21.10	11.2	50	28.9	AV	N	GND
12.640000	15.20	11.3	50	34.8	AV	N	GND

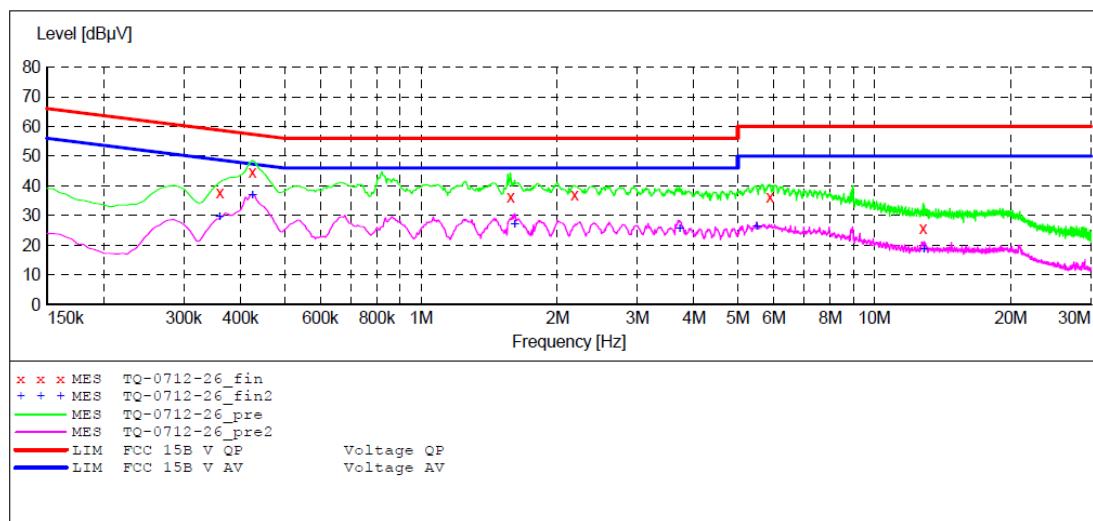
ACCURATE TECHNOLOGY CO., LTD

## CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1504  
 Manufacturer: TQL TRADING INC  
 Operating Condition: FM  
 Test Site: 1#Shielding Room  
 Operator: DING  
 Test Specification: N 220V/50Hz  
 Comment: Report NO.:ATE20161336  
 Start of Test: 7/12/2016 / 6:49:01PM

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

Short Description:		SUB STD VTERM2 1.70				
Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Time	Transducer
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: "TQ-0712-26\_fin"**

7/12/2016 6:54PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.360000	37.50	10.6	59	21.2	QP	N	GND
0.425000	44.70	10.7	57	12.6	QP	N	GND
1.575000	36.10	10.9	56	19.9	QP	N	GND
2.180000	36.80	11.0	56	19.2	QP	N	GND
5.880000	36.30	11.2	60	23.7	QP	N	GND
12.805000	25.80	11.3	60	34.2	QP	N	GND

**MEASUREMENT RESULT: "TQ-0712-26\_fin2"**

7/12/2016 6:54PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.360000	29.50	10.6	49	19.2	AV	N	GND
0.425000	37.00	10.7	47	10.3	AV	N	GND
1.610000	27.00	10.9	46	19.0	AV	N	GND
3.720000	25.50	11.1	46	20.5	AV	N	GND
5.500000	26.50	11.2	50	23.5	AV	N	GND
12.850000	18.70	11.3	50	31.3	AV	N	GND

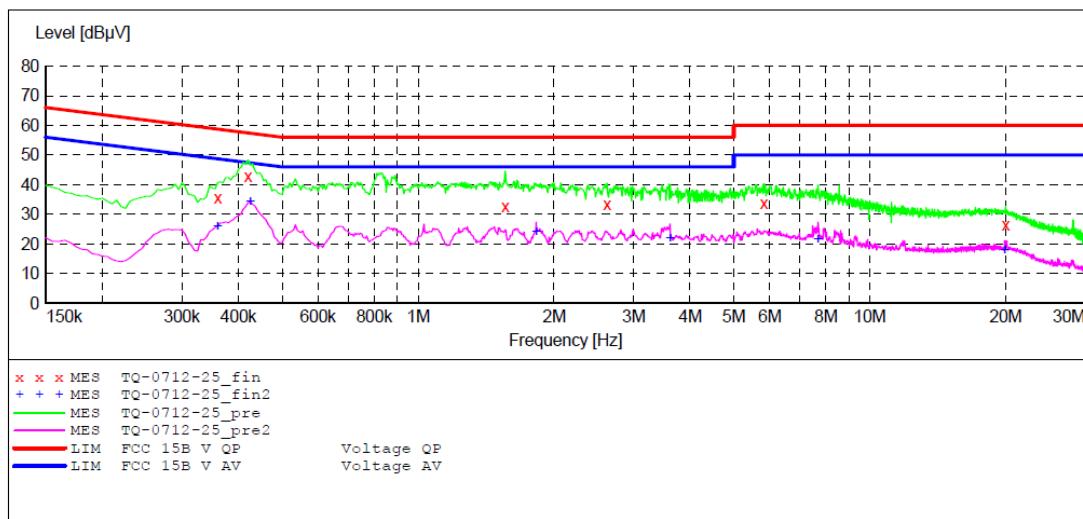
ACCURATE TECHNOLOGY CO., LTD

## CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1504  
 Manufacturer: TQL TRADING INC  
 Operating Condition: FM  
 Test Site: 1#Shielding Room  
 Operator: DING  
 Test Specification: L 220V/50Hz  
 Comment: Report NO.:ATE20161336  
 Start of Test: 7/12/2016 / 6:26:21PM

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

Short Description:		SUB STD VTERM2 1.70				
Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Bandw.	Transducer
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: "TQ-0712-25\_fin"**

7/12/2016 6:47PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.360000	35.50	10.6	59	23.2	QP	L1	GND
0.420000	42.80	10.7	57	14.6	QP	L1	GND
1.560000	32.50	10.9	56	23.5	QP	L1	GND
2.620000	33.20	11.0	56	22.8	QP	L1	GND
5.820000	33.70	11.2	60	26.3	QP	L1	GND
19.975000	26.30	11.4	60	33.7	QP	L1	GND

**MEASUREMENT RESULT: "TQ-0712-25\_fin2"**

7/12/2016 6:47PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.360000	26.10	10.6	49	22.6	AV	L1	GND
0.425000	34.40	10.7	47	12.9	AV	L1	GND
1.825000	24.30	11.0	46	21.7	AV	L1	GND
3.610000	22.20	11.1	46	23.8	AV	L1	GND
7.680000	21.80	11.2	50	28.2	AV	L1	GND
19.885000	18.10	11.4	50	31.9	AV	L1	GND

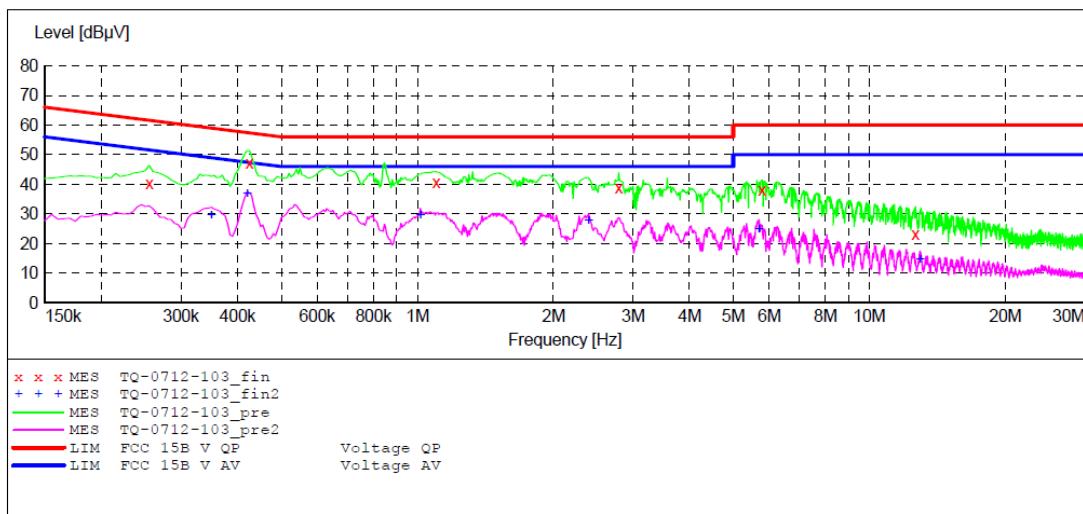
## Test mode 7

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

EUT: SPEAKER M/N:TQ-LT1504  
 Manufacturer: TQL TRADING INC  
 Operating Condition: GT IN  
 Test Site: 1#Shielding Room  
 Operator: DING  
 Test Specification: L 120V/60Hz  
 Comment: Report NO.:ATE20161336  
 Start of Test: 7/12/2016 / 1:31:28PM

**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: "TQ-0712-103\_fin"**

7/12/2016 1:36PM	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dB $\mu$ V	dB	dB $\mu$ V	dB			
	0.255000	40.30	10.6	62	21.3	QP	L1	GND
	0.425000	47.30	10.7	57	10.0	QP	L1	GND
	1.100000	40.50	10.9	56	15.5	QP	L1	GND
	2.790000	38.80	11.0	56	17.2	QP	L1	GND
	5.790000	37.90	11.2	60	22.1	QP	L1	GND
	12.640000	23.20	11.3	60	36.8	QP	L1	GND

**MEASUREMENT RESULT: "TQ-0712-103\_fin2"**

7/12/2016 1:36PM	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dB $\mu$ V	dB	dB $\mu$ V	dB			
	0.350000	29.50	10.6	49	19.5	AV	L1	GND
	0.420000	37.00	10.7	47	10.4	AV	L1	GND
	1.015000	29.70	10.8	46	16.3	AV	L1	GND
	2.390000	28.00	11.0	46	18.0	AV	L1	GND
	5.700000	25.00	11.2	50	25.0	AV	L1	GND
	12.940000	14.70	11.3	50	35.3	AV	L1	GND

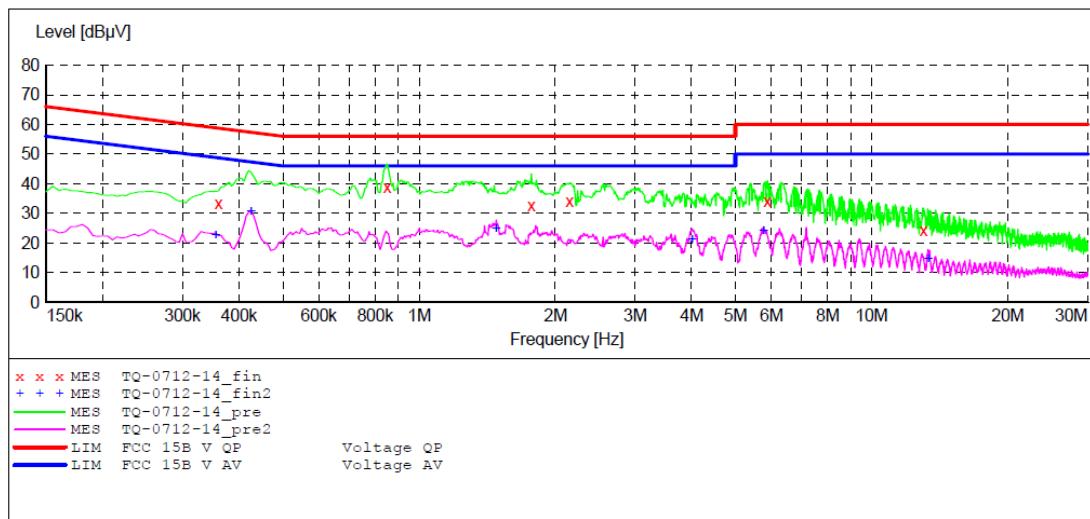
## ACCURATE TECHNOLOGY CO., LTD

## CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1504  
 Manufacturer: TQL TRADING INC  
 Operating Condition: GT IN  
 Test Site: 1#Shielding Room  
 Operator: DING  
 Test Specification: N 120V/60Hz  
 Comment: Report NO.:ATE20161336  
 Start of Test: 7/12/2016 / 1:36:30PM

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

Short Description:		SUB STD VTERM2 1.70				
Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
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: "TQ-0712-14\_fin"**

7/12/2016 2:01PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.360000	33.20	10.6	59	25.5	QP	N	GND
0.850000	38.70	10.8	56	17.3	QP	N	GND
1.770000	32.70	11.0	56	23.3	QP	N	GND
2.150000	34.20	11.0	56	21.8	QP	N	GND
5.880000	33.90	11.2	60	26.1	QP	N	GND
13.015000	24.20	11.3	60	35.8	QP	N	GND

**MEASUREMENT RESULT: "TQ-0712-14\_fin2"**

7/12/2016 2:01PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.355000	22.70	10.6	49	26.1	AV	N	GND
0.425000	30.60	10.7	47	16.7	AV	N	GND
1.480000	24.90	10.9	46	21.1	AV	N	GND
4.010000	21.20	11.1	46	24.8	AV	N	GND
5.770000	24.20	11.2	50	25.8	AV	N	GND
13.330000	14.80	11.3	50	35.2	AV	N	GND

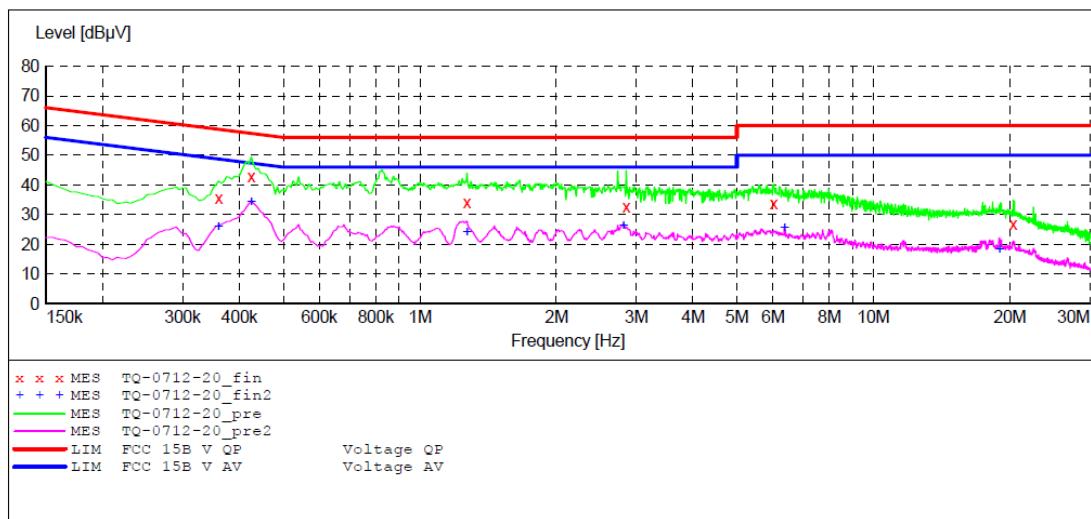
ACCURATE TECHNOLOGY CO., LTD

## CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1504  
 Manufacturer: TQL TRADING INC  
 Operating Condition: GT IN  
 Test Site: 1#Shielding Room  
 Operator: DING  
 Test Specification: L 220V/50Hz  
 Comment: Report NO.:ATE20161336  
 Start of Test: 7/12/2016 / 5:43:14PM

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

Short Description:		SUB STD VTERM2 1.70				
Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Bandw.	Transducer
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: "TQ-0712-20\_fin"**

7/12/2016 5:48PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.360000	35.40	10.6	59	23.3	QP	L1	GND
0.425000	42.70	10.7	57	14.6	QP	L1	GND
1.270000	34.10	10.9	56	21.9	QP	L1	GND
2.850000	32.60	11.0	56	23.4	QP	L1	GND
6.020000	33.70	11.2	60	26.3	QP	L1	GND
20.335000	26.70	11.4	60	33.3	QP	L1	GND

**MEASUREMENT RESULT: "TQ-0712-20\_fin2"**

7/12/2016 5:48PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.360000	26.00	10.6	49	22.7	AV	L1	GND
0.425000	34.30	10.7	47	13.0	AV	L1	GND
1.270000	24.10	10.9	46	21.9	AV	L1	GND
2.810000	26.40	11.0	46	19.6	AV	L1	GND
6.360000	25.70	11.2	50	24.3	AV	L1	GND
18.985000	18.40	11.4	50	31.6	AV	L1	GND

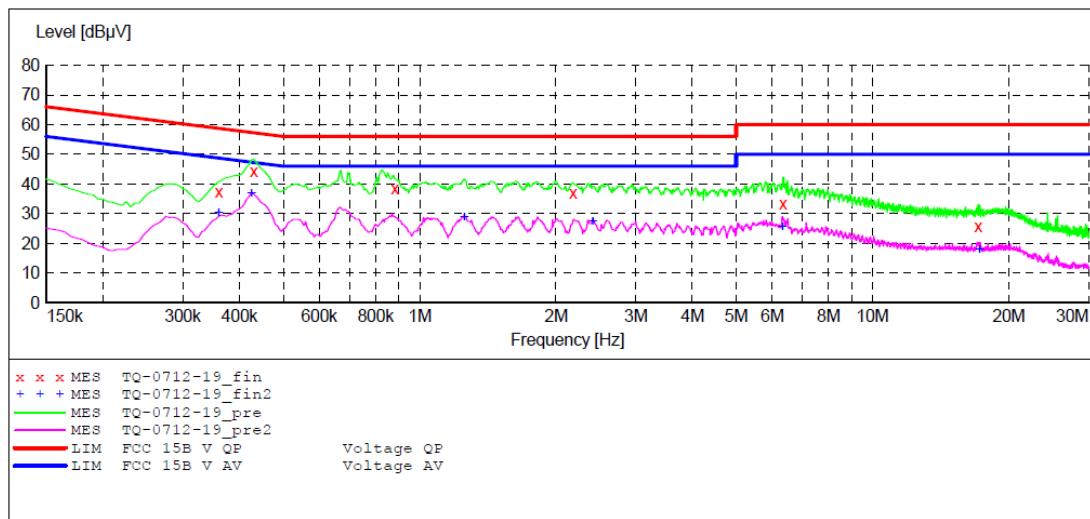
ACCURATE TECHNOLOGY CO., LTD

## CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1504  
 Manufacturer: TQL TRADING INC  
 Operating Condition: GT IN  
 Test Site: 1#Shielding Room  
 Operator: DING  
 Test Specification: N 220V/50Hz  
 Comment: Report NO.:ATE20161336  
 Start of Test: 7/12/2016 / 5:35:02PM

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

Short Description:		SUB STD VTERM2 1.70				
Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Bandw.	Transducer
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: "TQ-0712-19\_fin"**

7/12/2016 5:42PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.360000	37.20	10.6	59	21.5	QP	N	GND
0.430000	44.20	10.7	57	13.1	QP	N	GND
0.880000	38.30	10.8	56	17.7	QP	N	GND
2.180000	36.80	11.0	56	19.2	QP	N	GND
6.340000	33.30	11.2	60	26.7	QP	N	GND
17.110000	25.80	11.4	60	34.2	QP	N	GND

**MEASUREMENT RESULT: "TQ-0712-19\_fin2"**

7/12/2016 5:42PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.360000	30.50	10.6	49	18.2	AV	N	GND
0.425000	37.00	10.7	47	10.3	AV	N	GND
1.255000	29.10	10.9	46	16.9	AV	N	GND
2.410000	27.60	11.0	46	18.4	AV	N	GND
6.320000	25.50	11.2	50	24.5	AV	N	GND
17.200000	18.00	11.4	50	32.0	AV	N	GND

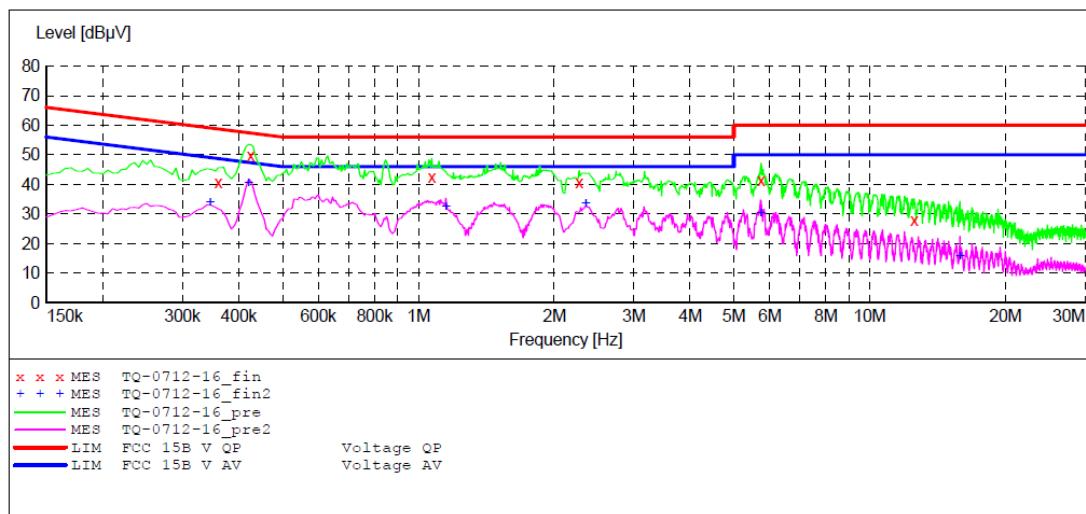
## Test mode 8

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

EUT: SPEAKER M/N:TQ-LT1504  
 Manufacturer: TQL TRADING INC  
 Operating Condition: MIC IN  
 Test Site: 1#Shielding Room  
 Operator: DING  
 Test Specification: L 120V/60Hz  
 Comment: Report NO.:ATE20161336  
 Start of Test: 7/12/2016 / 2:08:06PM

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

Short Description:		SUB STD VTERM2 1.70				
Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Time	Transducer 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: "TQ-0712-16\_fin"**

7/12/2016 2:12PM	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dB $\mu$ V	dB	dB $\mu$ V	dB			
	0.360000	40.50	10.6	59	18.2	QP	L1	GND
	0.425000	49.60	10.7	57	7.7	QP	L1	GND
	1.070000	42.40	10.9	56	13.6	QP	L1	GND
	2.270000	40.70	11.0	56	15.3	QP	L1	GND
	5.750000	41.30	11.2	60	18.7	QP	L1	GND
	12.550000	28.00	11.3	60	32.0	QP	L1	GND

**MEASUREMENT RESULT: "TQ-0712-16\_fin2"**

7/12/2016 2:12PM	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dB $\mu$ V	dB	dB $\mu$ V	dB			
	0.345000	33.90	10.6	49	15.2	AV	L1	GND
	0.420000	40.70	10.7	47	6.7	AV	L1	GND
	1.150000	32.50	10.9	46	13.5	AV	L1	GND
	2.350000	33.50	11.0	46	12.5	AV	L1	GND
	5.730000	30.30	11.2	50	19.7	AV	L1	GND
	15.835000	15.90	11.4	50	34.1	AV	L1	GND

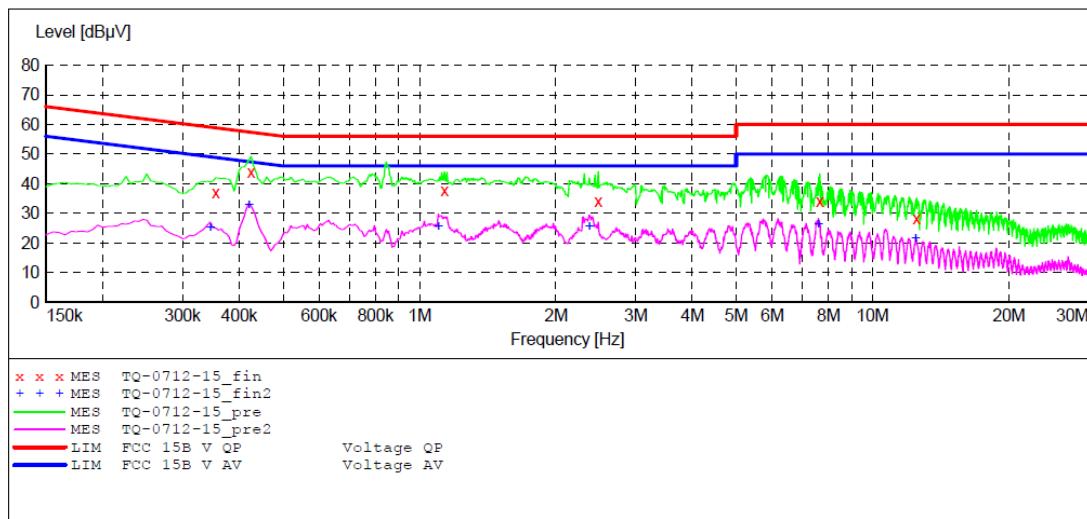
ACCURATE TECHNOLOGY CO., LTD

## CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1504  
 Manufacturer: TQL TRADING INC  
 Operating Condition: MIC IN  
 Test Site: 1#Shielding Room  
 Operator: DING  
 Test Specification: N 120V/60Hz  
 Comment: Report NO.:ATE20161336  
 Start of Test: 7/12/2016 / 2:01:46PM

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

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

**MEASUREMENT RESULT: "TQ-0712-15\_fin"**

7/12/2016 2:07PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.355000	36.90	10.6	59	21.9	QP	N	GND
0.425000	44.00	10.7	57	13.3	QP	N	GND
1.135000	37.80	10.9	56	18.2	QP	N	GND
2.480000	33.90	11.0	56	22.1	QP	N	GND
7.650000	34.00	11.2	60	26.0	QP	N	GND
12.505000	28.20	11.3	60	31.8	QP	N	GND

**MEASUREMENT RESULT: "TQ-0712-15\_fin2"**

7/12/2016 2:07PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.345000	25.40	10.6	49	23.7	AV	N	GND
0.420000	32.90	10.7	47	14.5	AV	N	GND
1.100000	25.80	10.9	46	20.2	AV	N	GND
2.370000	25.80	11.0	46	20.2	AV	N	GND
7.590000	26.30	11.2	50	23.7	AV	N	GND
12.445000	21.80	11.3	50	28.2	AV	N	GND

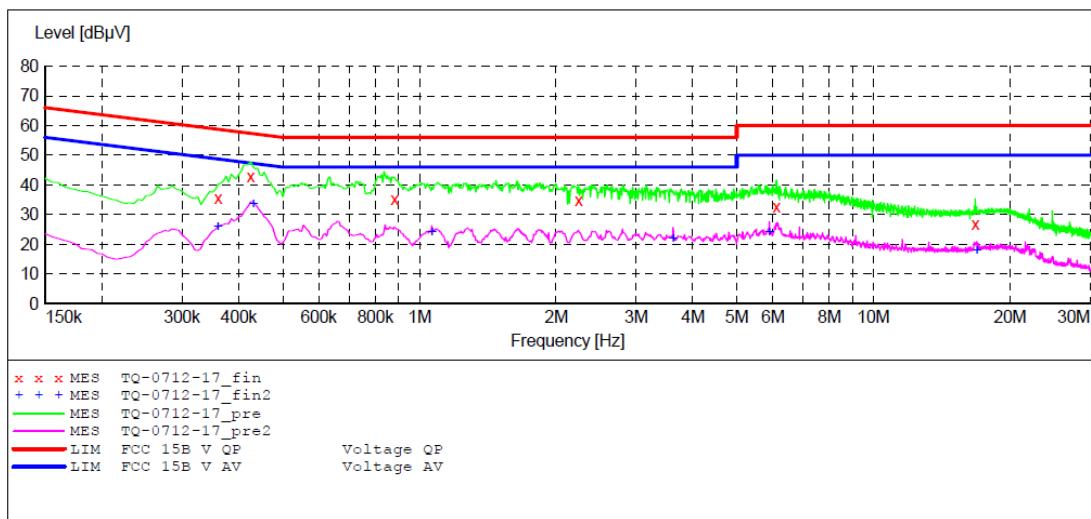
ACCURATE TECHNOLOGY CO., LTD

## CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1504  
 Manufacturer: TQL TRADING INC  
 Operating Condition: MIC IN  
 Test Site: 1#Shielding Room  
 Operator: DING  
 Test Specification: L 220V/50Hz  
 Comment: Report NO.:ATE20161336  
 Start of Test: 7/12/2016 / 4:49:00PM

**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: "TQ-0712-17\_fin"**

7/12/2016 4:56PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.360000	35.40	10.6	59	23.3	QP	L1	GND
0.425000	42.80	10.7	57	14.5	QP	L1	GND
0.880000	35.10	10.8	56	20.9	QP	L1	GND
2.240000	34.60	11.0	56	21.4	QP	L1	GND
6.110000	32.60	11.2	60	27.4	QP	L1	GND
16.750000	26.90	11.4	60	33.1	QP	L1	GND

**MEASUREMENT RESULT: "TQ-0712-17\_fin2"**

7/12/2016 4:56PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.360000	26.00	10.6	49	22.7	AV	L1	GND
0.430000	33.80	10.7	47	13.5	AV	L1	GND
1.065000	24.20	10.9	46	21.8	AV	L1	GND
3.620000	22.10	11.1	46	23.9	AV	L1	GND
5.900000	24.20	11.2	50	25.8	AV	L1	GND
16.900000	18.20	11.4	50	31.8	AV	L1	GND

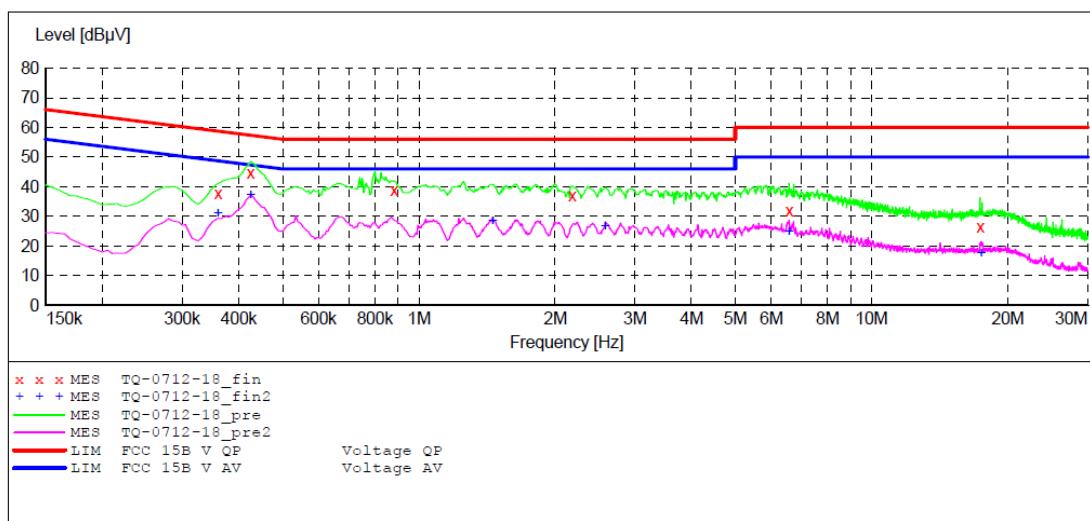
ACCURATE TECHNOLOGY CO., LTD

## CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1504  
 Manufacturer: TQL TRADING INC  
 Operating Condition: MIC IN  
 Test Site: 1#Shielding Room  
 Operator: DING  
 Test Specification: N 220V/50Hz  
 Comment: Report NO.:ATE20161336  
 Start of Test: 7/12/2016 / 4:56:51PM

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

Short Description:		SUB STD VTERM2 1.70				
Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Bandw.	Transducer
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: "TQ-0712-18\_fin"**

7/12/2016 5:00PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.360000	37.50	10.6	59	21.2	QP	N	GND
0.425000	44.60	10.7	57	12.7	QP	N	GND
0.880000	38.60	10.8	56	17.4	QP	N	GND
2.180000	36.90	11.0	56	19.1	QP	N	GND
6.570000	32.00	11.2	60	28.0	QP	N	GND
17.365000	26.20	11.4	60	33.8	QP	N	GND

**MEASUREMENT RESULT: "TQ-0712-18\_fin2"**

7/12/2016 5:00PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.360000	31.30	10.6	49	17.4	AV	N	GND
0.425000	37.30	10.7	47	10.0	AV	N	GND
1.455000	28.60	10.9	46	17.4	AV	N	GND
2.580000	26.70	11.0	46	19.3	AV	N	GND
6.570000	24.90	11.2	50	25.1	AV	N	GND
17.455000	17.50	11.4	50	32.5	AV	N	GND

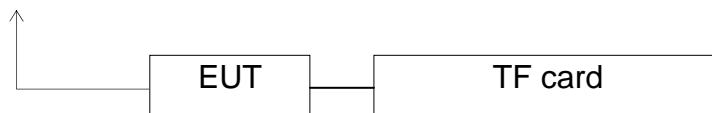
## 5. RADIATED EMISSION MEASUREMENT

### 5.1. Block Diagram of Test Setup

#### 5.1.1. Block diagram of connection between the EUT and simulators

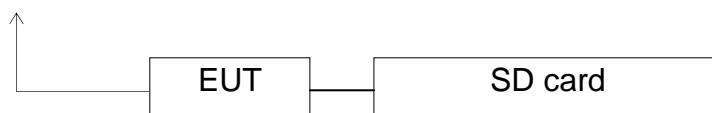
Test mode 1: TF card PLAYING

AC or DC Mains



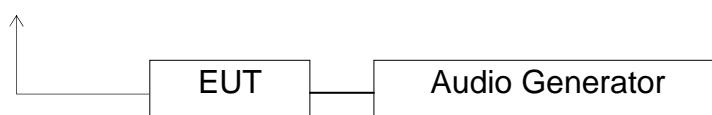
Test mode 2: SD card PLAYING

AC or DC Mains



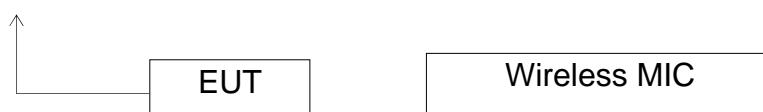
Test mode 3: AUX IN

AC or DC Mains



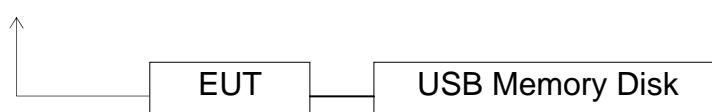
Test mode 4: 202.2MHz RX

AC or DC Mains



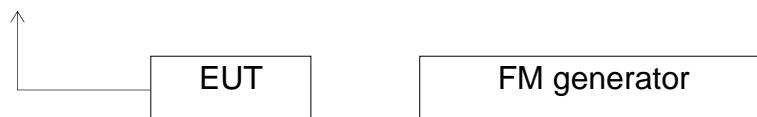
Test mode 5: USB PLAYING

AC or DC Mains



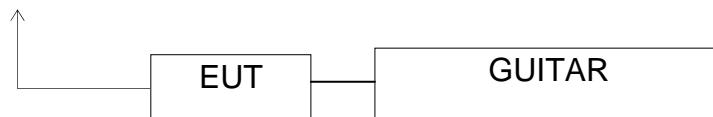
Test mode 6: FM

AC or DC Mains



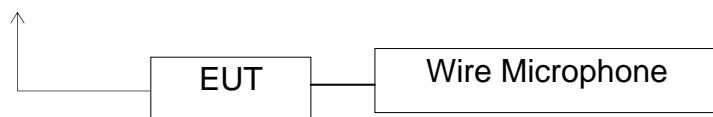
Test mode 7: GUITAR IN

AC or DC Mains



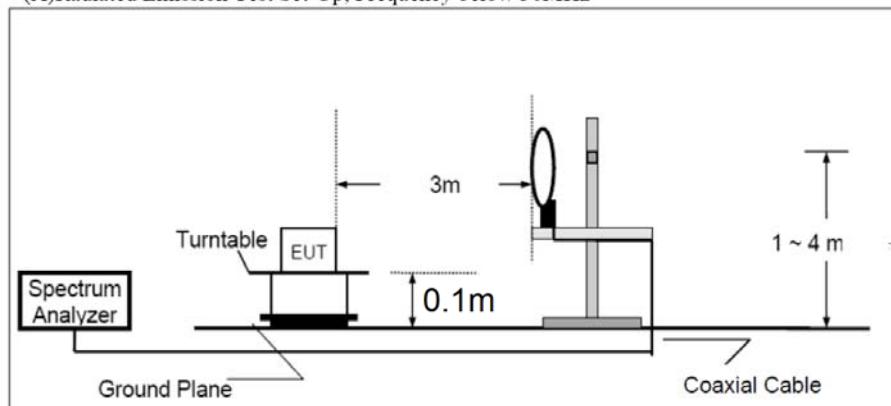
Test mode 8: MIC IN

AC or DC Mains

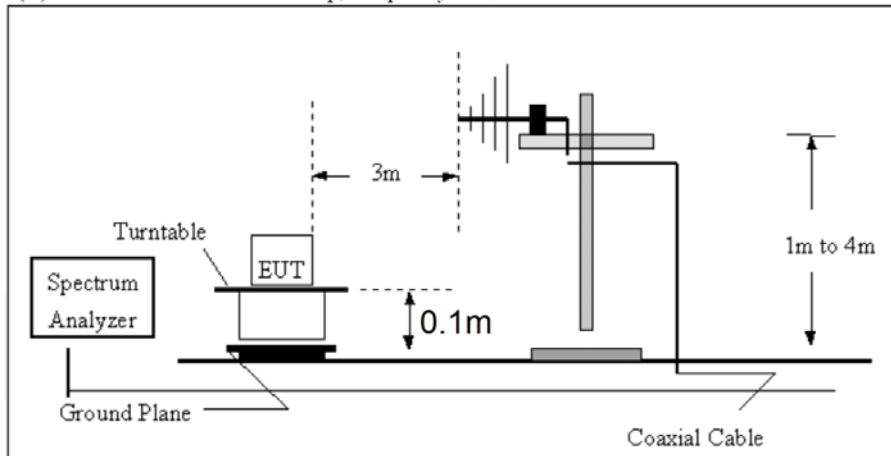


### 5.1.2. Block diagram of test setup (In chamber)

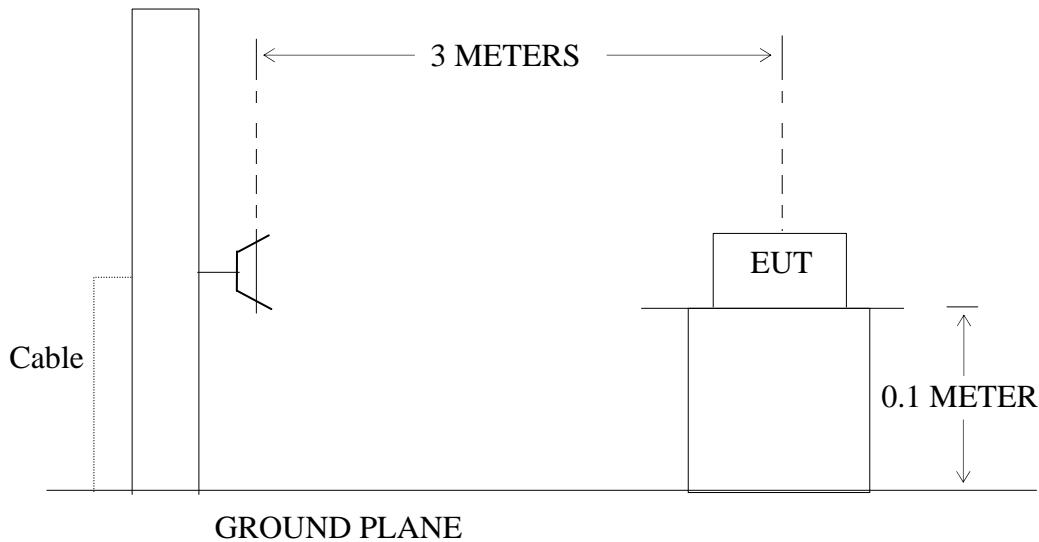
(A) Radiated Emission Test Set-Up, Frequency below 30MHz



(B) Radiated Emission Test Set-Up, Frequency 30-1000MHz



## (C) Radiated Emission Test Set-Up, Frequency above 1GHz



## 5.2.The Emission Limit For Section 15.109 (a)

## 5.2.1.Radiation Emission Measurement Limits According to Section 15.109 (a).

Frequency MHz	Distance Meters	Field Strengths Limit	
		$\mu\text{V/m}$	dB( $\mu\text{V/m}$ )
30-88	3	100	40.0
88-216	3	150	43.5
216-960	3	200	46.0
960-1000	3	500	54.0

Remark: (1) Emission level dB ( $\mu\text{V}$ ) = 20 log Emission level  $\mu\text{V/m}$ .  
(2)The smaller limit shall apply at the cross point between two frequency bands.  
(3)Distance is the distance in meters between the measuring instrument antenna and the closest point of any part of the device or system.

## 5.3.EUT Configuration on Measurement

The following equipment is installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

## 5.3.1.SPEAKER

Model Number: TQ-LT1504

Serial Number: N/A

Manufacturer: TQL TRADING INC.

## 5.4.Operating Condition of EUT

- 5.4.1.Setup the EUT and simulator as shown as Section 5.1.
- 5.4.2.Turn on the power of all equipment.
- 5.4.3.Let the EUT work in test mode and measure it.

## 5.5.Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.1 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2014 on radiated emission measurement.

The bandwidth of the EMI test REMOTE CONTROL (R&S ESCS30) is set at 120kHz from 30MHz to 1000MHz.

The frequency range from 30MHz to 3000MHz is checked.

## 5.6.Radiated Emission Noise Measurement Result

**PASS.**

Note: 1. We carried out two kinds of AC and DC power supply radiation test, then we recorded the worst mode(AC power supply) test data in the report.

2. We tested 3 different frequency point of FM RX test mode, and recorded the worst case data(88.1MHz) in the report.
3. The EUT highest operating frequency provided by Manufacturer is 202.2MHz, the radiated emission measurement shall be made up to 3 GHz. The frequency range from 30MHz to 3000MHz is investigated.

Emissions attenuated more than 20 dB below the permissible value are not reported.

The spectral diagrams are attached as below.

Test mode 1

Below 1GHz



## 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.: STAR2015 #1483

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 2016/07/09

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

Time: 18:37:53

EUT: SPEAKER

Engineer Signature:

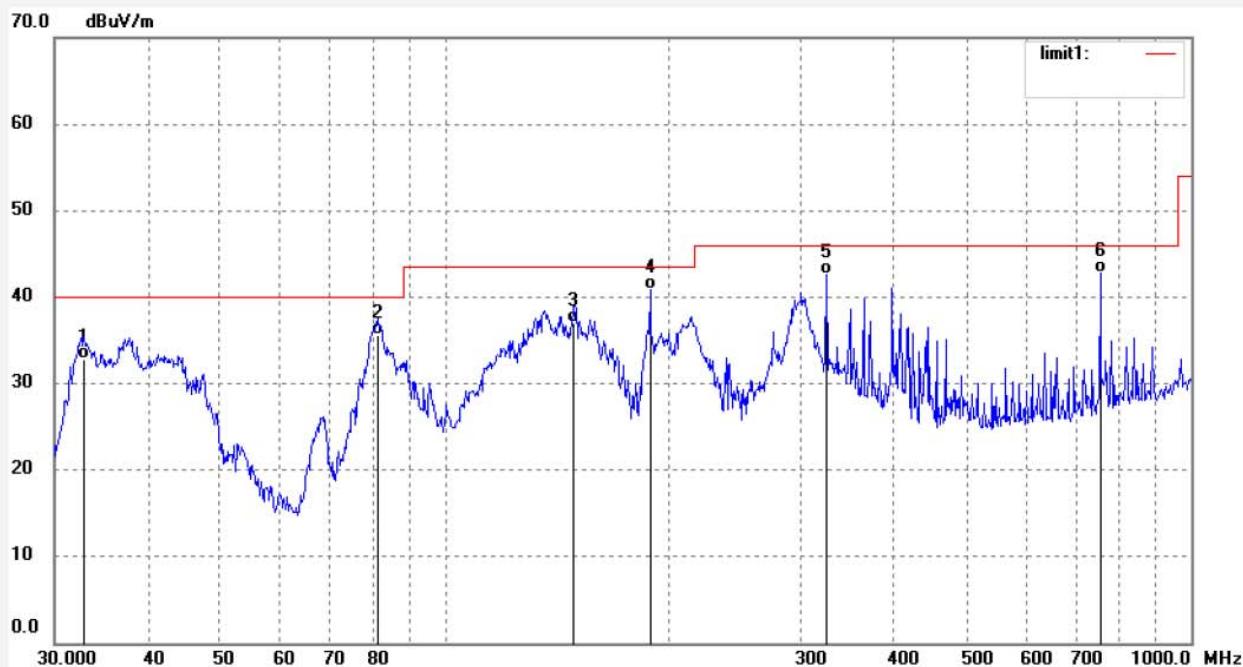
Mode: TF PLAYING

Distance: 3m

Model: TQ-LT1504

Manufacturer: TQL TRADING INC

Note: Report NO.:ATE20161336



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	32.8637	43.04	-10.21	32.83	40.00	-7.17	QP			
2	81.2116	51.86	-16.25	35.61	40.00	-4.39	QP			
3	148.9625	52.14	-15.17	36.97	43.50	-6.53	QP			
4	188.4125	53.60	-12.66	40.94	43.50	-2.56	QP			
5	324.4561	51.21	-8.56	42.65	46.00	-3.35	QP			
6	755.3873	43.83	-0.96	42.87	46.00	-3.13	QP			

Job No.: STAR2015 #1482

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 2016/07/09

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

Time: 18:33:36

EUT: SPEAKER

Engineer Signature:

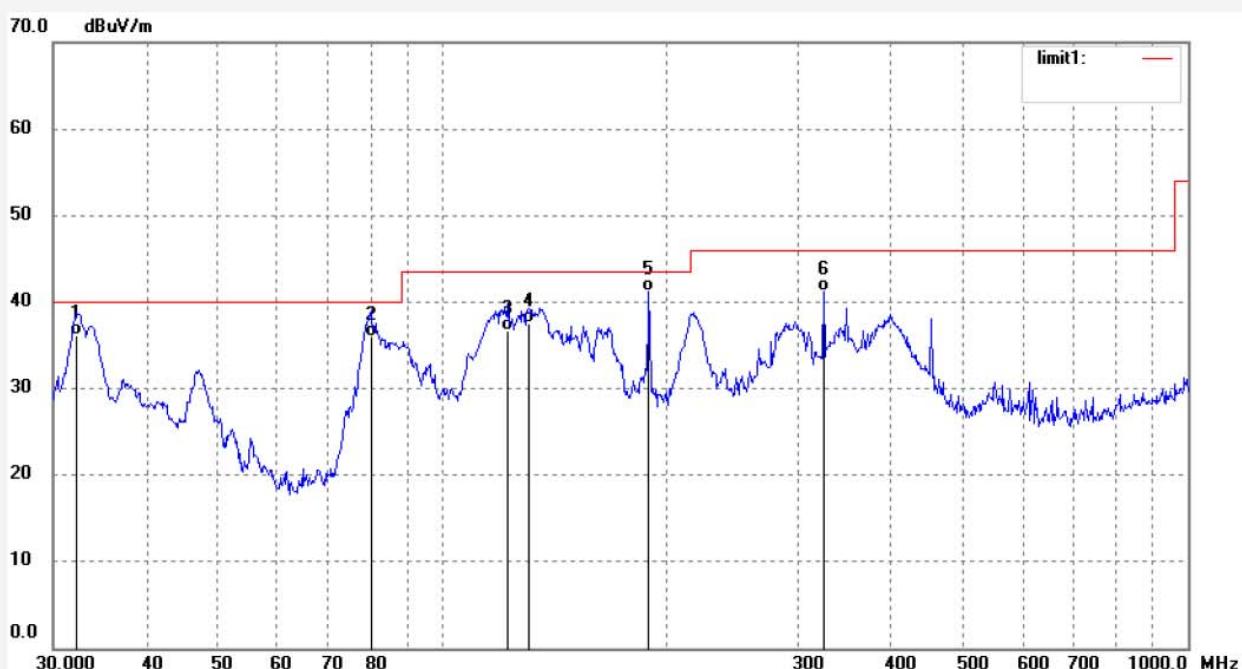
Mode: TF PLAYING

Distance: 3m

Model: TQ-LT1504

Manufacturer: TQL TRADING INC

Note: Report NO.:ATE20161336



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	32.2925	45.69	-9.61	36.08	40.00	-3.92	QP			
2	80.0806	52.40	-16.49	35.91	40.00	-4.09	QP			
3	122.4039	50.04	-13.43	36.61	43.50	-6.89	QP			
4	130.3788	51.41	-13.88	37.53	43.50	-5.97	QP			
5	189.0743	53.82	-12.66	41.16	43.50	-2.34	QP			
6	324.4560	49.73	-8.56	41.17	46.00	-4.83	QP			

Above 1GHz



## 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.: STAR2015 #1484

Polarization: Horizontal

Standard: FCC PK

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 2016/07/09

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

Time: 18:44:36

EUT: SPEAKER

Engineer Signature:

Mode: TF PLAYING

Distance: 3m

Model: TQ-LT1504

Manufacturer: TQL TRADING INC

Note: Report NO.:ATE20161336



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4215.792	43.00	-1.63	41.37	74.00	-32.63	peak			
2	4215.792	35.44	-1.63	33.81	54.00	-20.19	AVG			

Job No.: STAR2015 #1485

Polarization: Vertical

Standard: FCC PK

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 2016/07/09

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

Time: 18:47:51

EUT: SPEAKER

Engineer Signature:

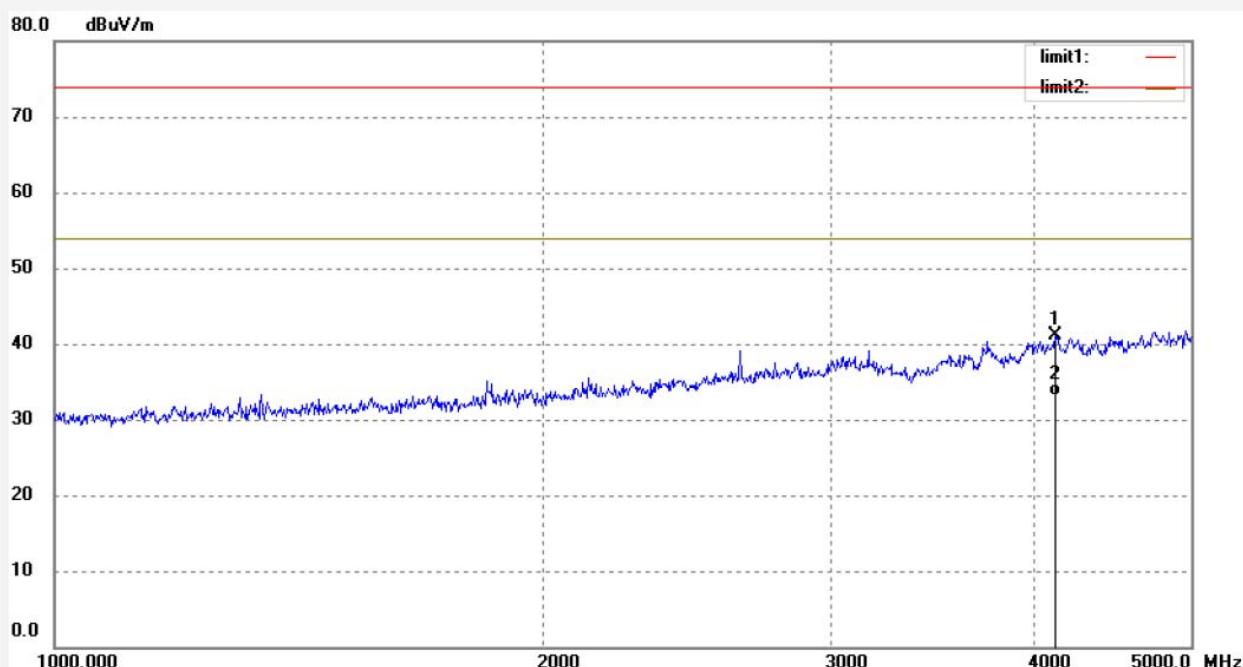
Mode: TF PLAYING

Distance: 3m

Model: TQ-LT1504

Manufacturer: TQL TRADING INC

Note: Report NO.:ATE20161336



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4121.864	42.58	-1.50	41.08	74.00	-32.92	peak			
2	4121.864	34.61	-1.50	33.11	54.00	-20.89	AVG			

## Test mode 2

Below 1GHz

**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.: STAR2015 #1481

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 2016/07/09

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

Time: 18:30:39

EUT: SPEAKER

Engineer Signature:

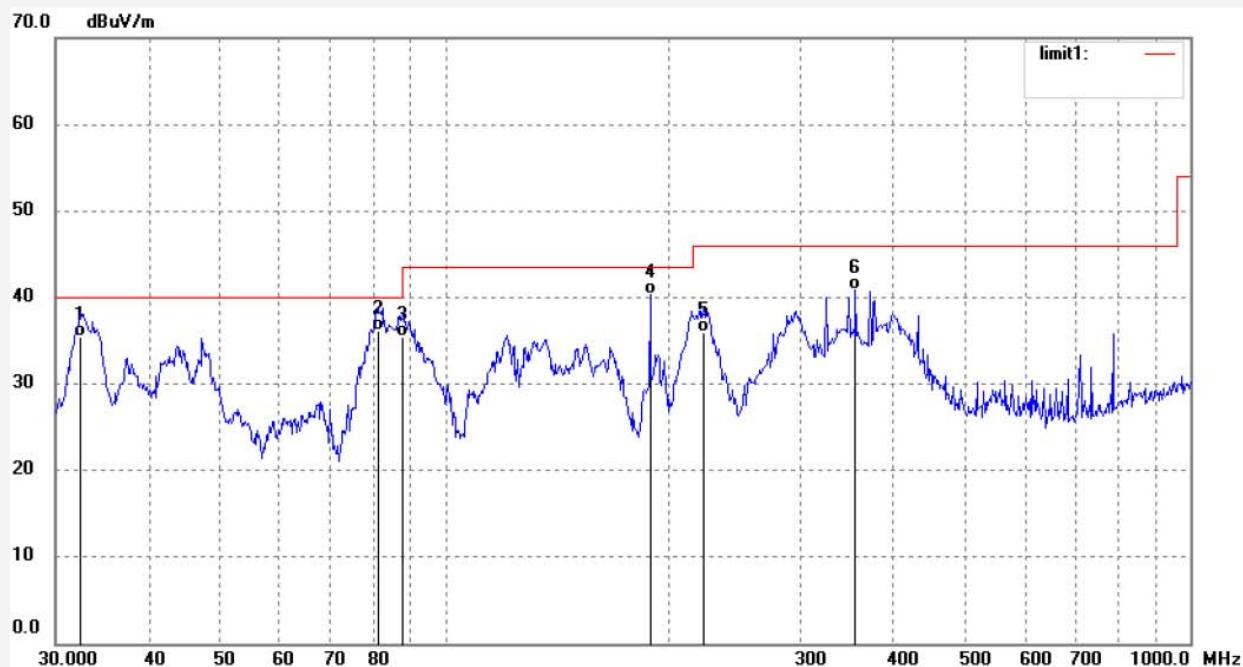
Mode: SD PLAYING

Distance: 3m

Model: TQ-LT1504

Manufacturer: TQL TRADING INC

Note: Report NO.:ATE20161336



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	32.4059	45.10	-9.65	35.45	40.00	-4.55	QP			
2	81.2117	52.45	-16.25	36.20	40.00	-3.80	QP			
3	87.7248	50.66	-15.22	35.44	40.00	-4.56	QP			
4	188.4125	52.95	-12.66	40.29	43.50	-3.21	QP			
5	222.1698	47.60	-11.58	36.02	46.00	-9.98	QP			
6	355.4273	48.53	-7.70	40.83	46.00	-5.17	QP			

Job No.: STAR2015 #1480

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 2016/07/09

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

Time: 18:26:44

EUT: SPEAKER

Engineer Signature:

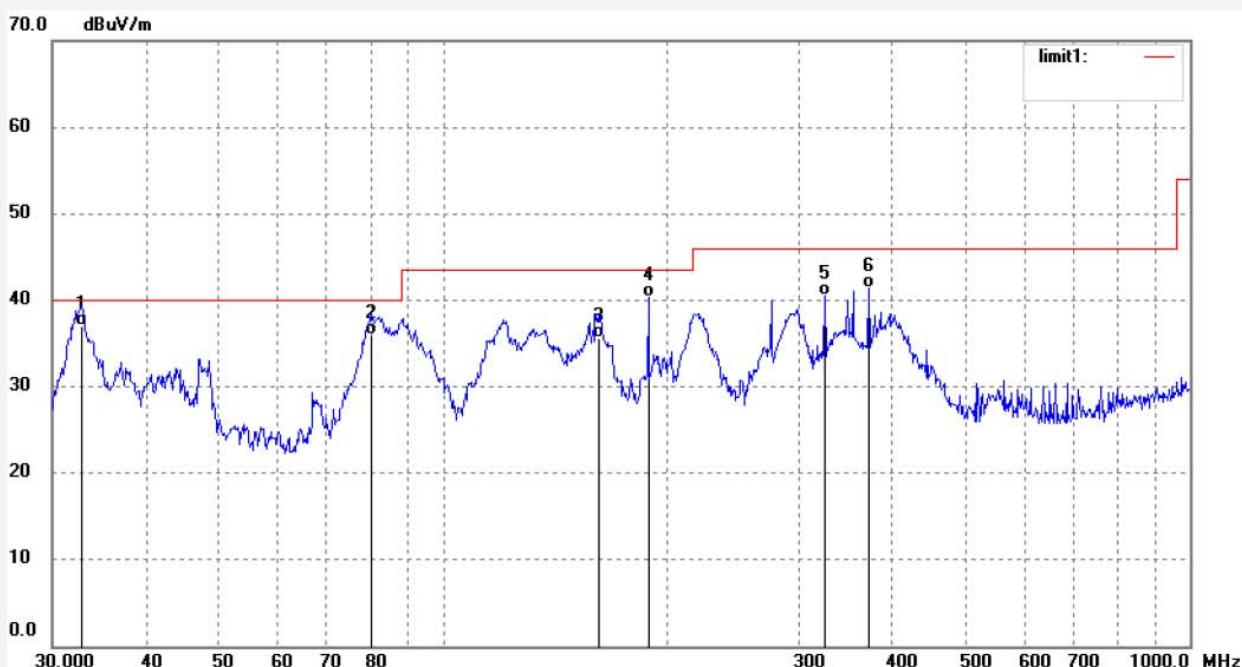
Mode: SD PLAYING

Distance: 3m

Model: TQ-LT1504

Manufacturer: TQL TRADING INC

Note: Report NO.:ATE20161336



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	32.8637	46.84	-9.79	37.05	40.00	-2.95	QP			
2	80.0806	52.40	-16.49	35.91	40.00	-4.09	QP			
3	162.0414	50.14	-14.52	35.62	43.50	-7.88	QP			
4	188.4124	53.03	-12.66	40.37	43.50	-3.13	QP			
5	324.4560	49.11	-8.56	40.55	46.00	-5.45	QP			
6	372.0045	48.88	-7.48	41.40	46.00	-4.60	QP			

Above 1GHz



## 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.: STAR2015 #1487

Polarization: Horizontal

Standard: FCC PK

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 2016/07/09

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

Time: 18:56:02

EUT: SPEAKER

Engineer Signature:

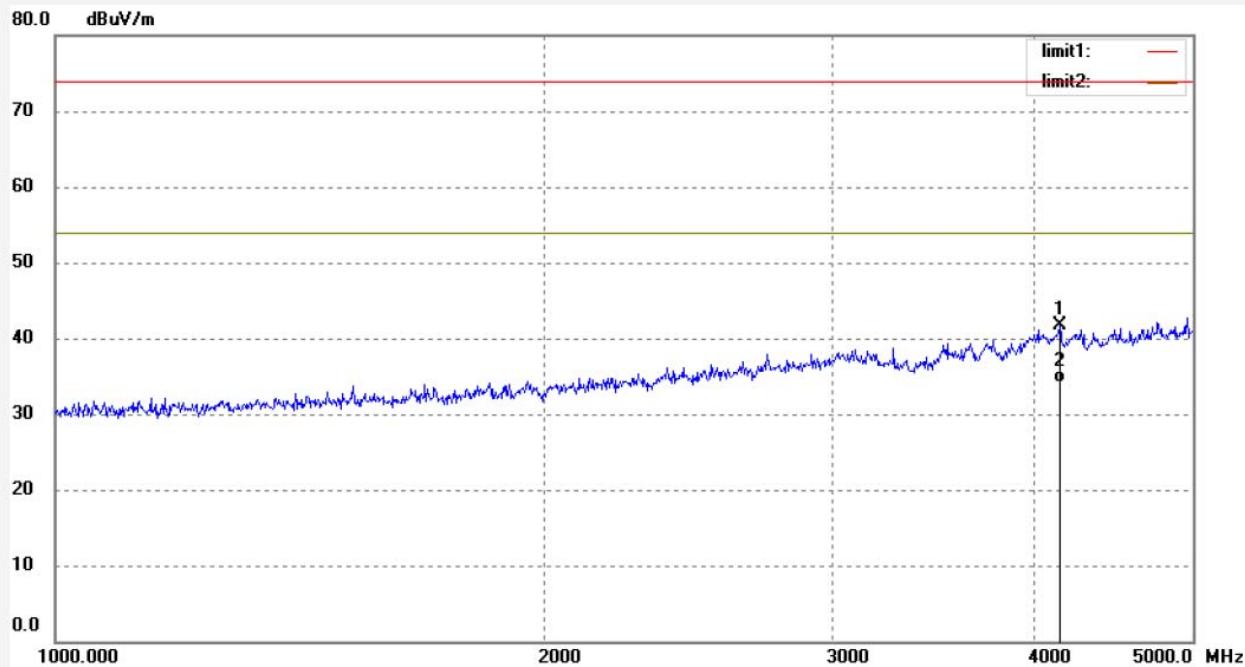
Mode: SD PLAYING

Distance: 3m

Model: TQ-LT1504

Manufacturer: TQL TRADING INC

Note: Report NO.:ATE20161336



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4141.813	43.29	-1.51	41.78	74.00	-32.22	peak			
2	4141.813	35.55	-1.51	34.04	54.00	-19.96	AVG			

Job No.: STAR2015 #1486

Polarization: Vertical

Standard: FCC PK

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 2016/07/09

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

Time: 18:51:36

EUT: SPEAKER

Engineer Signature:

Mode: SD PLAYING

Distance: 3m

Model: TQ-LT1504

Manufacturer: TQL TRADING INC

Note: Report NO.:ATE20161336



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4718.534	42.71	-0.77	41.94	74.00	-32.06	peak			
2	4718.534	34.75	-0.77	33.98	54.00	-20.02	AVG			