

APPLICATION FOR VERIFICATION
On Behalf of
TQL TRADING INC

SPEAKER

Model No.: TQ-LT1203, TQ-LT1206, TQ-LT1207, TQ-LT1208, TQ-LT1209,
TQ-LT1210, TQ-LT1211, TQ-LT1212, TQ-LT1213, TQ-LT1214

FCC ID: 2AKNJTQ-LT1203

Prepared for : TQL TRADING INC.
Address : 334 S LOS ANGELES ST #9002, LOS ANGELES,
CALIFORNIA, 90013, United States
Prepared by : Accurate Technology Co., Ltd.
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Report No. : ATE20161343
Date of Test : July 01--Dec. 28, 2016
Date of Report : Dec. 29, 2016

TABLE OF CONTENTS

Description	Page
Test Report Declaration	
1. TEST RESULTS SUMMARY	4
2. GENERAL INFORMATION	5
2.1. Product of Device (EUT)	5
2.2. Test mode of EUT	5
2.3. Accessory and Auxiliary Equipment.....	6
2.4. Description of Test Facility	7
2.5. Measurement Uncertainty.....	7
3. MEASURING DEVICE AND TEST EQUIPMENT	8
4. POWER LINE CONDUCTED MEASUREMENT.....	9
4.1. Block Diagram of Test Setup and Test mode description	9
4.2. The Emission Limit.....	10
4.3. Configuration of EUT on Measurement	10
4.4. Operating Condition of EUT	11
4.5. Test Procedure	11
4.6. Power Line Conducted Emission Measurement Results.....	11
5. RADIATED EMISSION MEASUREMENT	43
5.1. Block Diagram of Test Setup	43
5.2. The Emission Limit For Section 15.109 (a).....	45
5.3. EUT Configuration on Measurement	45
5.4. Operating Condition of EUT	46
5.5. Test Procedure	46
5.6. Radiated Emission Noise Measurement Result.....	46
6. PHOTOGRAPHS.....	79
6.1. Photos of Radiated Emission Measurement.....	79
6.2. Photo of Conducted Emission Measurement	80
7. PHOTO OF EUT	81

Test Report Declaration

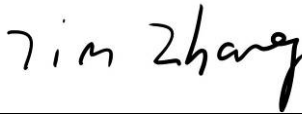
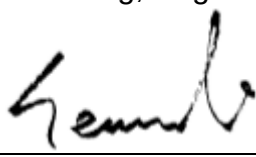
Applicant : TQL TRADING INC.
Manufacturer : TQL TRADING INC.
Product : SPEAKER
Model No. : TQ-LT1203, TQ-LT1206, TQ-LT1207, TQ-LT1208,
TQ-LT1209, TQ-LT1210, TQ-LT1211, TQ-LT1212,
TQ-LT1213, TQ-LT1214
(Note: they are identical in interior structure, electrical circuits and components, and
Product model is different because of different Color of product appearance. So we
prepare the TQ-LT1203 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-LT1203, TQ-LT1206, TQ-LT1207, TQ-LT1208,
TQ-LT1209, TQ-LT1210, TQ-LT1211, TQ-LT1212,
TQ-LT1213, TQ-LT1214

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

Trade Name : H&A

Remark(s) : The EUT highest operating frequency provided by
Manufacturer is 186.5MHz, the radiated
emission measurement shall be made up to 2 GHz.

Modulation: : FM

Receiver Frequency : 186.5MHz 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: 186.5MHz 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=2.23dB, k=2
Power disturbance expanded uncertainty : U=2.92dB, k=2
Radiated emission expanded uncertainty : U=3.08dB, k=2
(9kHz-30MHz)
Radiated emission expanded uncertainty : U=4.42dB, k=2
(30MHz-1000MHz)
Radiated emission expanded uncertainty : U=4.06dB, k=2
(Above 1GHz)

3. MEASURING DEVICE AND TEST EQUIPMENT

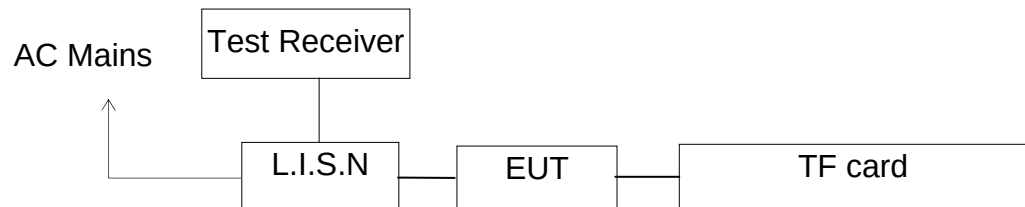
Table 1: List of Test and Measurement Equipment

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

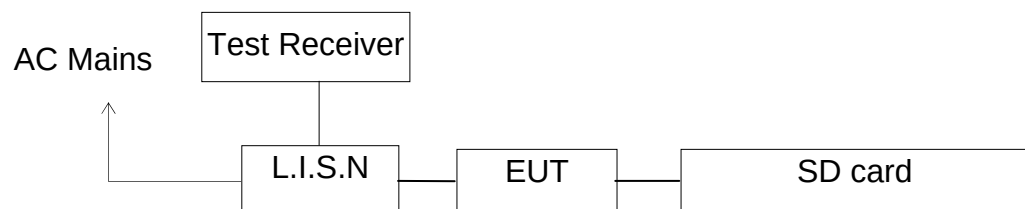
4. POWER LINE CONDUCTED MEASUREMENT

4.1. Block Diagram of Test Setup and Test mode description

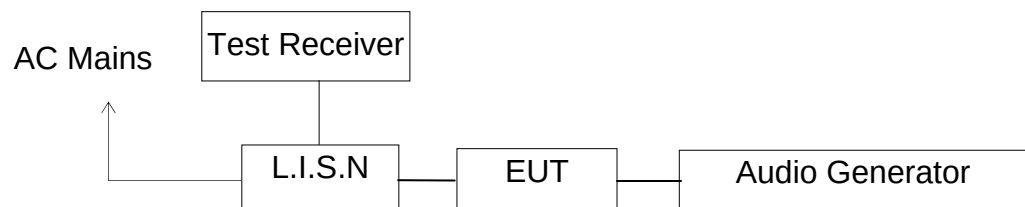
Test mode 1: TF card PLAYING



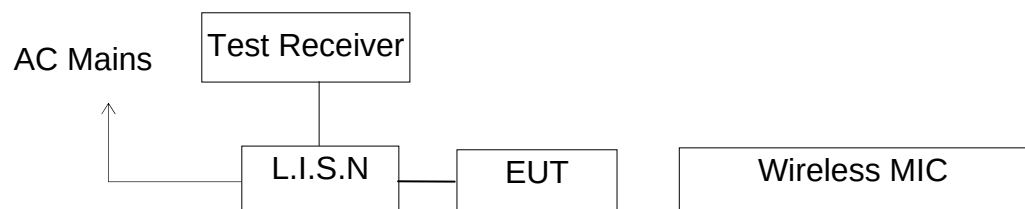
Test mode 2: SD card PLAYING



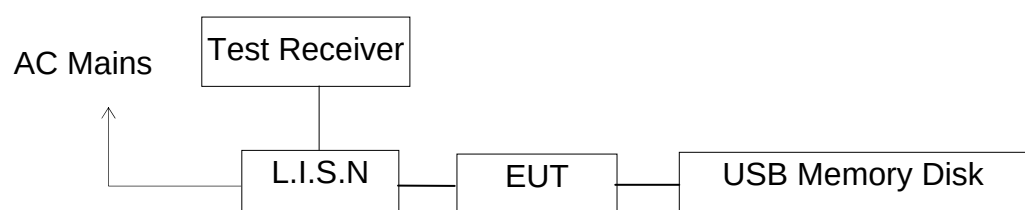
Test mode 3: AUX IN



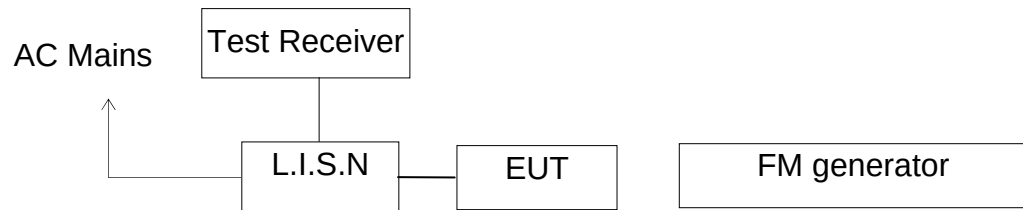
Test mode 4: 186.5MHz RX



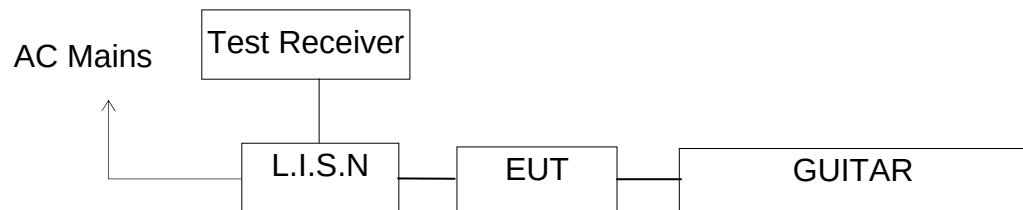
Test mode 5: USB PLAYING



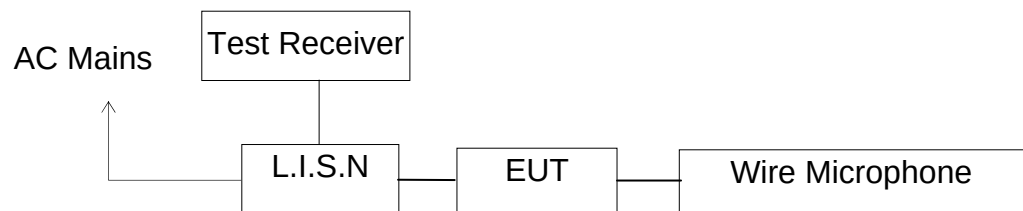
Test mode 6: FM



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(μV)	
	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-LT1203
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

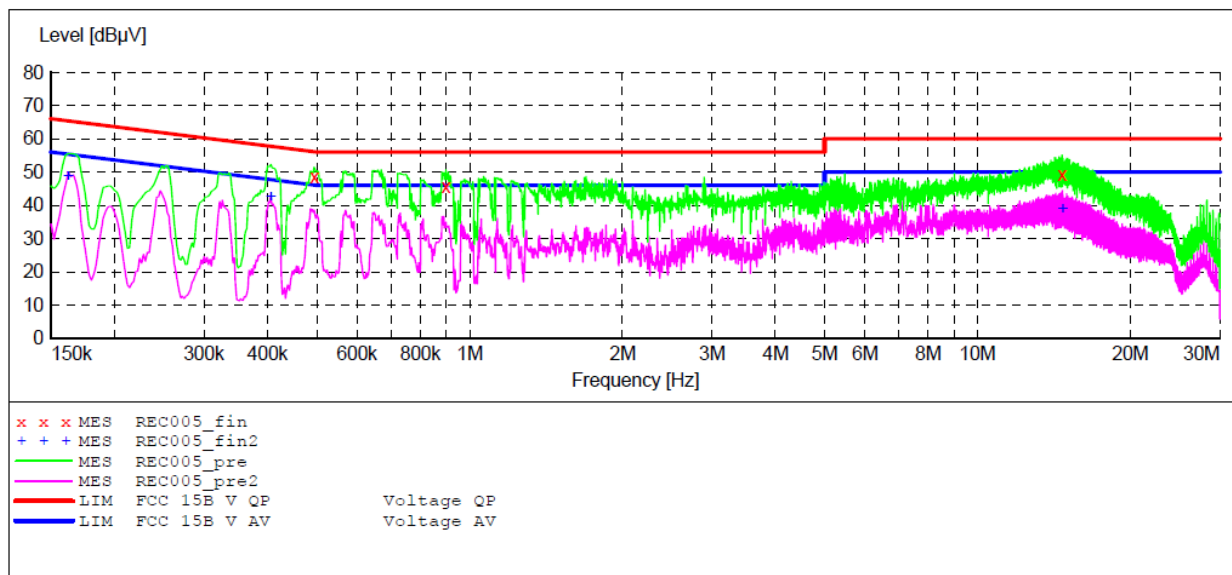
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1203
 Manufacturer: TQL TRADING INC
 Operating Condition: TF card Play
 Test Site: 2#Shielding Room
 Operator: star
 Test Specification: L 120V/60Hz
 Comment: Report No.:ATE20161343
 Start of Test: 2016-7-7 / 15:03:23

SCAN TABLE: "V 150K-30MHz fin"

Short Description: SUB STD VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN (ESH3-Z5)
 Average



MEASUREMENT RESULT: "REC005_fin"

2016-7-7 15:04

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.494000	48.60	11.5	56.1	7.5	QP	L1	GND
0.898000	45.70	11.6	56	10.3	QP	L1	GND
14.663000	49.10	11.9	60	10.9	QP	L1	GND

MEASUREMENT RESULT: "REC005_fin2"

2016-7-7 15:04

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.162000	48.90	10.4	55.4	6.5	AV	L1	GND
0.406000	42.70	11.3	48	5.0	AV	L1	GND
14.690000	39.00	11.9	50	11.0	AV	L1	GND

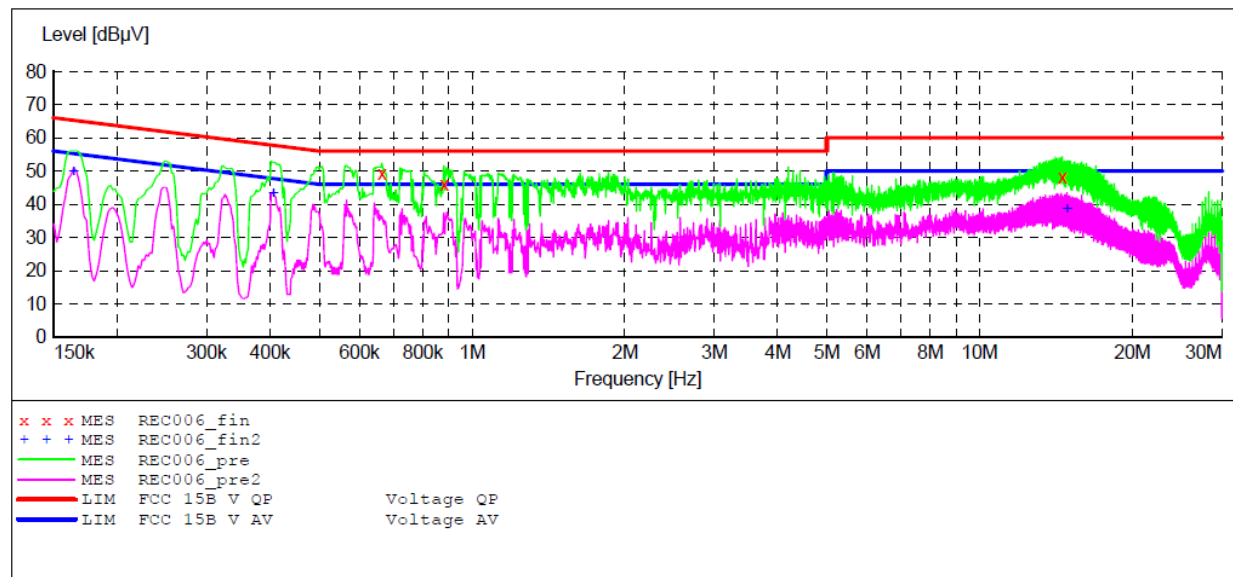
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1203
 Manufacturer: TQL TRADING INC
 Operating Condition: TF card Play
 Test Site: 2#Shielding Room
 Operator: star
 Test Specification: N 120V/60Hz
 Comment: Report No.:ATE20161343
 Start of Test: 2016-7-7 / 15:05:21

SCAN TABLE: "V 150K-30MHz fin"

Short Description: SUB STD VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN (ESH3-Z5)
 Average



MEASUREMENT RESULT: "REC006_fin"

2016-7-7 15:06

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.664000	49.10	11.5	56	6.9	QP	N	GND
0.880000	46.00	11.6	56	10.0	QP	N	GND
14.555000	48.30	11.9	60	11.7	QP	N	GND

MEASUREMENT RESULT: "REC006_fin2"

2016-7-7 15:06

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.164000	50.10	10.4	55.3	5.2	AV	N	GND
0.406000	43.50	11.3	47.7	4.2	AV	N	GND
14.861000	38.50	11.9	50	11.5	AV	N	GND

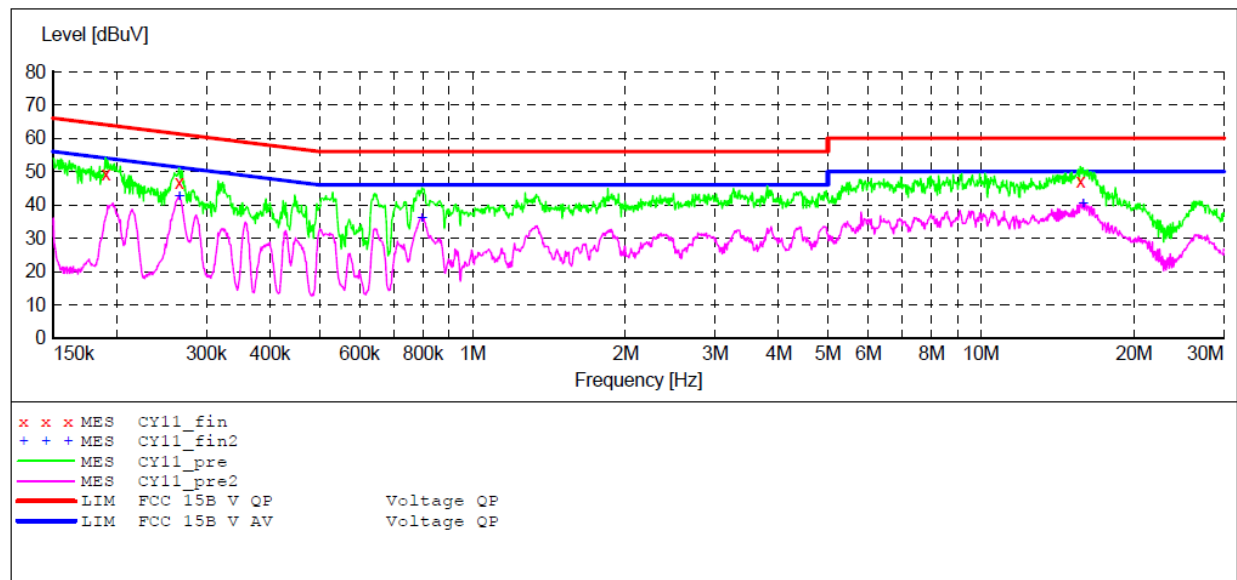
ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1203
 Manufacturer: TQL TRADING INC
 Operating Condition: TF card Play
 Test Site: 2#Shielding Room
 Operator: Star
 Test Specification: L 220V/60Hz
 Comment: Report No.:ATE20161343
 Start of Test: 2016-7-7 / 15:37:13

SCAN TABLE: "V 150K-30MHz fin"

Short Description: SUB STD VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 0.4 % QuasiPeak 1.0 s 9 kHz LISN(ESH3-Z5)
 Average



MEASUREMENT RESULT: "CY11_fin"

2016-7-7 15:38

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.190049	49.10	11.9	64	14.9	QP	L1	GND
0.265014	46.70	11.9	61.3	14.6	QP	L1	GND
15.672537	47.10	12.0	60	12.9	QP	L1	GND

MEASUREMENT RESULT: "CY11_fin2"

2016-7-7 15:38

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.265014	42.60	11.9	51.3	8.7	AV	L1	GND
0.795630	36.20	11.9	46	9.8	AV	L1	GND
15.861456	40.40	12.0	50	9.6	AV	L1	GND

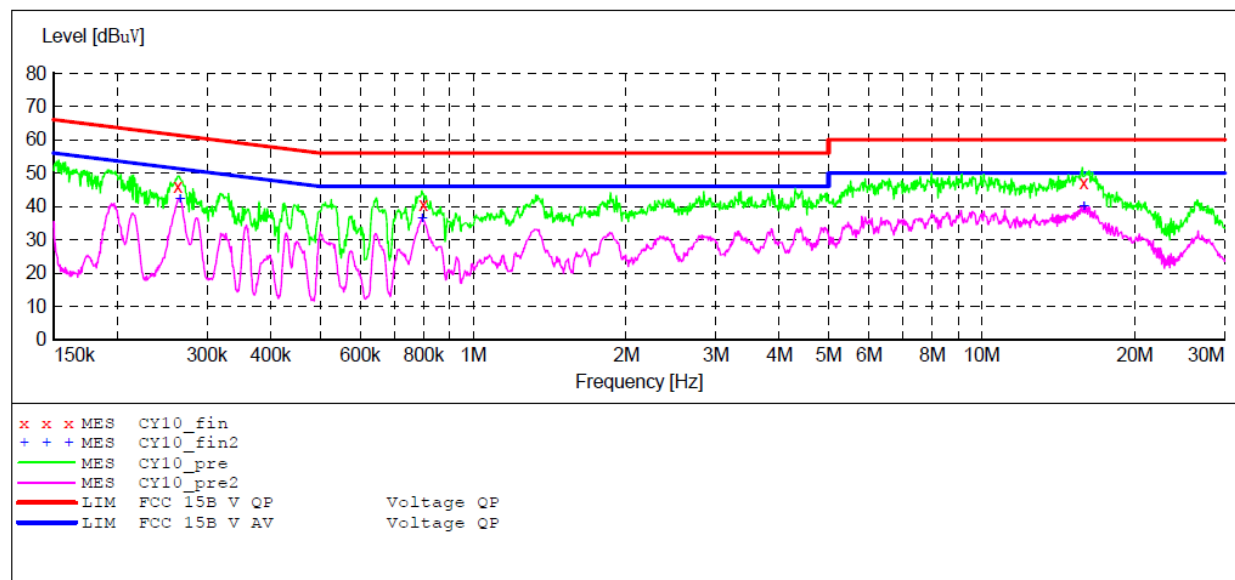
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1203
 Manufacturer: TQL TRADING INC
 Operating Condition: TF card Play
 Test Site: 2#Shielding Room
 Operator: Star
 Test Specification: N 220V/60Hz
 Comment: Report No.:ATE20161343
 Start of Test: 2016-7-7 / 15:35:17

SCAN TABLE: "V 150K-30MHz fin"

Short Description: SUB STD VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 0.4 % QuasiPeak 1.0 s 9 kHz LISN (ESH3-Z5)
 Average



MEASUREMENT RESULT: "CY10_fin"

2016-7-7 15:36

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.262643	46.00	11.9	61.3	15.3	QP	N	GND
0.798017	40.60	11.9	56	15.4	QP	N	GND
15.861456	47.10	12.0	60	12.9	QP	N	GND

MEASUREMENT RESULT: "CY10_fin2"

2016-7-7 15:36

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.265014	42.40	11.9	51.3	8.9	AV	N	GND
0.793250	36.40	11.9	46	9.6	AV	N	GND
15.861456	40.20	12.0	50	9.8	AV	N	GND

Test mode 2

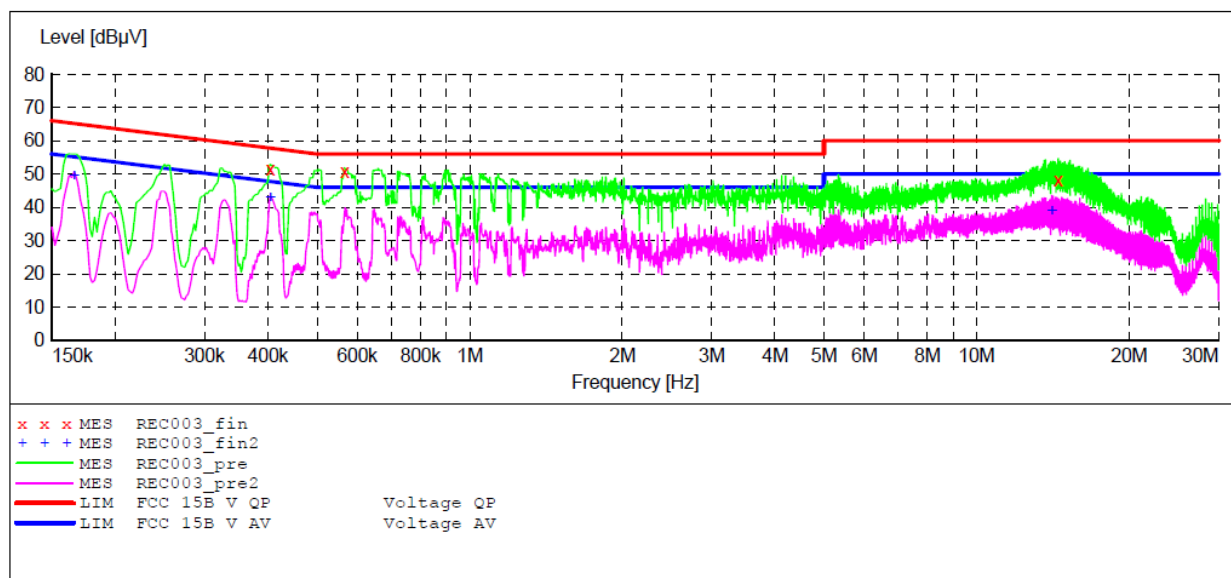
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1203
Manufacturer: TQL TRADING INC
Operating Condition: SD card Play
Test Site: 2#Shielding Room
Operator: star
Test Specification: N 120V/60Hz
Comment: Report No.:ATE20161343
Start of Test: 2016-7-7 / 14:58:22

SCAN TABLE: "V 150K-30MHz fin"

Short Description: SUB STD VTERM2 1.70
Start Stop Step Detector Meas. IF Transducer
Frequency Frequency Width Time Bandw.
150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN(ESH3-Z5)
Average



MEASUREMENT RESULT: "REC003_fin"

2016-7-7 15:00

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.404000	51.30	11.3	57.8	6.5	QP	N	GND
0.566000	50.60	11.5	56	5.4	QP	N	GND
14.487500	48.30	11.9	60	11.7	QP	N	GND

MEASUREMENT RESULT: "REC003_fin2"

2016-7-7 15:00

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.166000	49.50	10.4	55.2	5.7	AV	N	GND
0.404000	42.90	11.3	47.8	4.9	AV	N	GND
14.073500	39.00	11.9	50	11.0	AV	N	GND

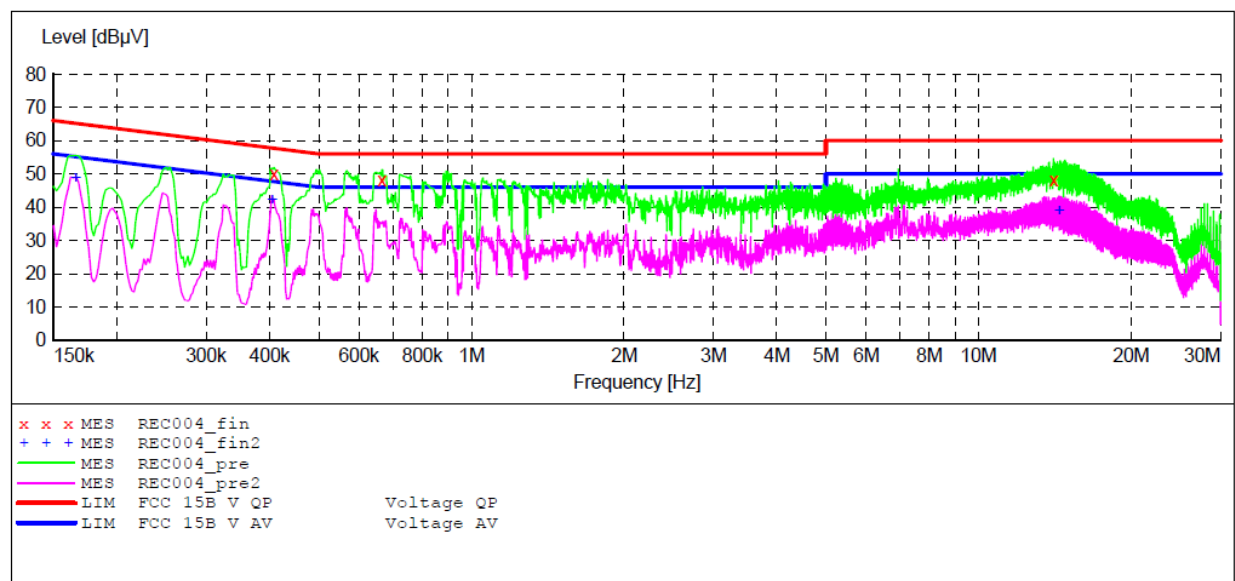
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1203
 Manufacturer: TQL TRADING INC
 Operating Condition: SD card Play
 Test Site: 2#Shielding Room
 Operator: star
 Test Specification: L 120V/60Hz
 Comment: Report No.:ATE20161343
 Start of Test: 2016-7-7 / 15:00:38

SCAN TABLE: "V 150K-30MHz fin"

Short Description: SUB STD VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN (ESH3-Z5)
 Average



MEASUREMENT RESULT: "REC004_fin"

2016-7-7 15:02

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.408000	50.00	11.3	57.7	7.7	QP	L1	GND
0.666000	48.00	11.5	56	8.0	QP	L1	GND
14.046500	48.10	11.9	60	11.9	QP	L1	GND

MEASUREMENT RESULT: "REC004_fin2"

2016-7-7 15:02

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.166000	48.90	10.4	55.2	6.3	AV	L1	GND
0.404000	42.10	11.3	47.8	5.7	AV	L1	GND
14.406500	39.10	11.9	50	10.9	AV	L1	GND

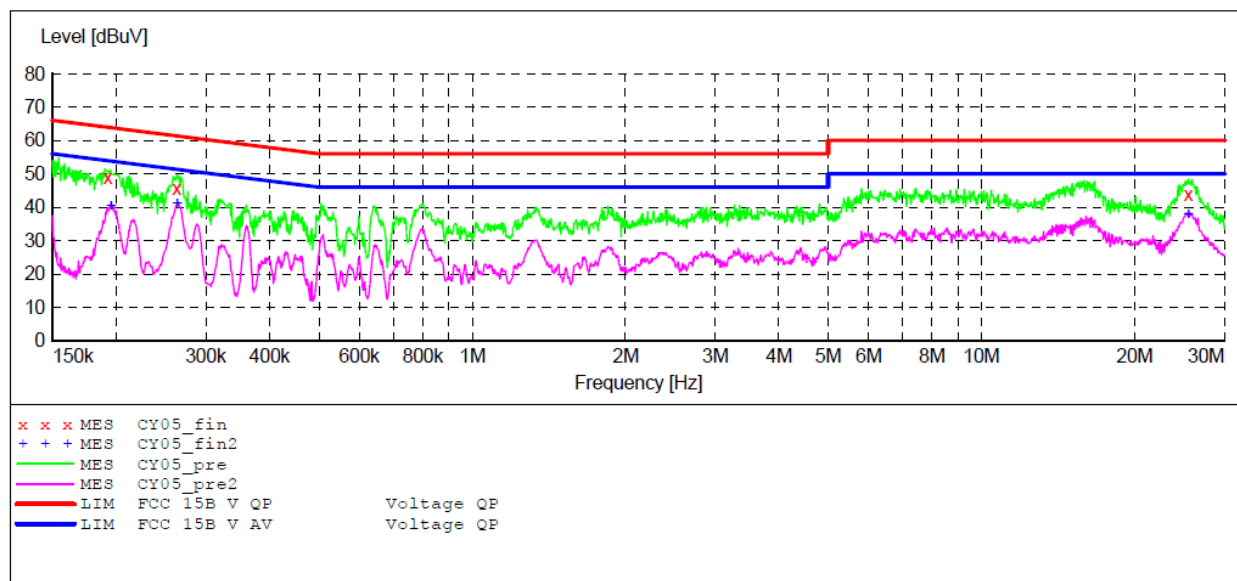
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1203
 Manufacturer: TQL TRADING INC
 Operating Condition: SD card Play
 Test Site: 2#Shielding Room
 Operator: Star
 Test Specification: N 220V/60Hz
 Comment: Report No.:ATE20161343
 Start of Test: 2016-7-7 / 15:21:03

SCAN TABLE: "V 150K-30MHz fin"

Short Description: SUB STD VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 0.4 % QuasiPeak 1.0 s 9 kHz LISN (ESH3-Z5)
 Average



MEASUREMENT RESULT: "CY05_fin"

2016-7-7 15:23

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.192340	48.90	11.9	63.9	15.0	QP	N	GND
0.262643	45.60	11.9	61.3	15.7	QP	N	GND
25.461879	43.90	12.0	60	16.1	QP	N	GND

MEASUREMENT RESULT: "CY05_fin2"

2016-7-7 15:23

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.195242	40.30	11.9	53.8	13.5	AV	N	GND
0.263431	41.10	11.9	51.3	10.2	AV	N	GND
25.461879	37.90	12.0	50	12.1	AV	N	GND

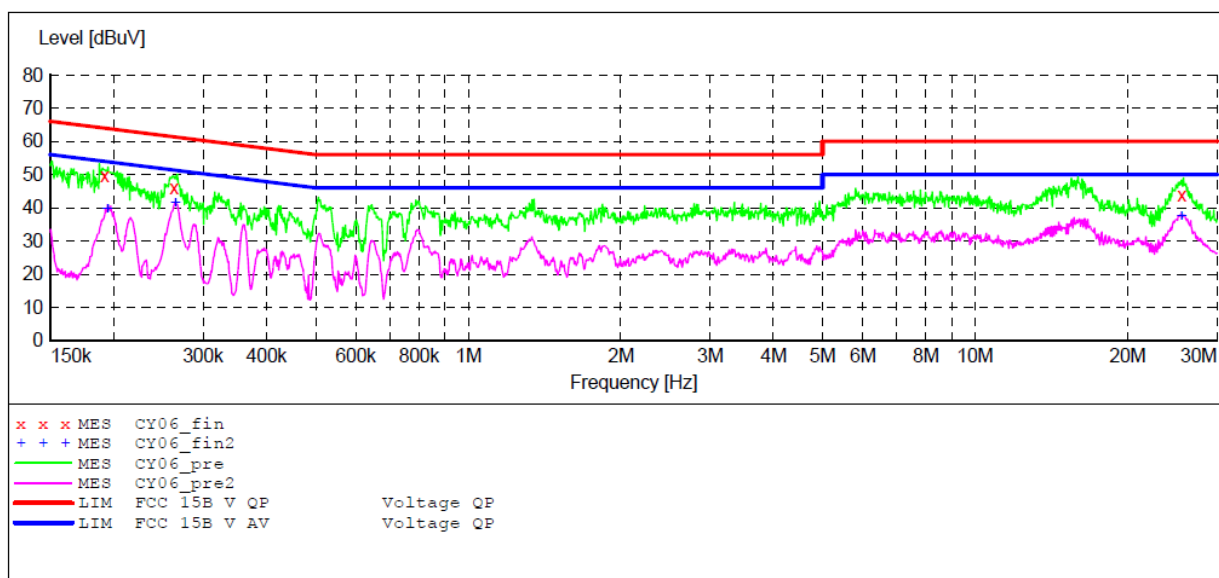
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1203
 Manufacturer: TQL TRADING INC
 Operating Condition: SD card Play
 Test Site: 2#Shielding Room
 Operator: Star
 Test Specification: L 220V/60Hz
 Comment: Report No.:ATE20161343
 Start of Test: 2016-7-7 / 15:25:40

SCAN TABLE: "V 150K-30MHz fin"

Short Description: SUB STD VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 0.4 % QuasiPeak 1.0 s 9 kHz LISN (ESH3-Z5)
 Average



MEASUREMENT RESULT: "CY06_fin"

2016-7-7 15:26

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.191764	49.50	11.9	64	14.5	QP	L1	GND
0.262643	46.10	11.9	61.3	15.2	QP	L1	GND
25.538265	43.60	12.0	60	16.4	QP	L1	GND

MEASUREMENT RESULT: "CY06_fin2"

2016-7-7 15:26

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.194076	39.70	11.9	53.9	14.2	AV	L1	GND
0.264221	41.50	11.9	51.3	9.8	AV	L1	GND
25.538265	37.70	12.0	50	12.3	AV	L1	GND

Test mode 3

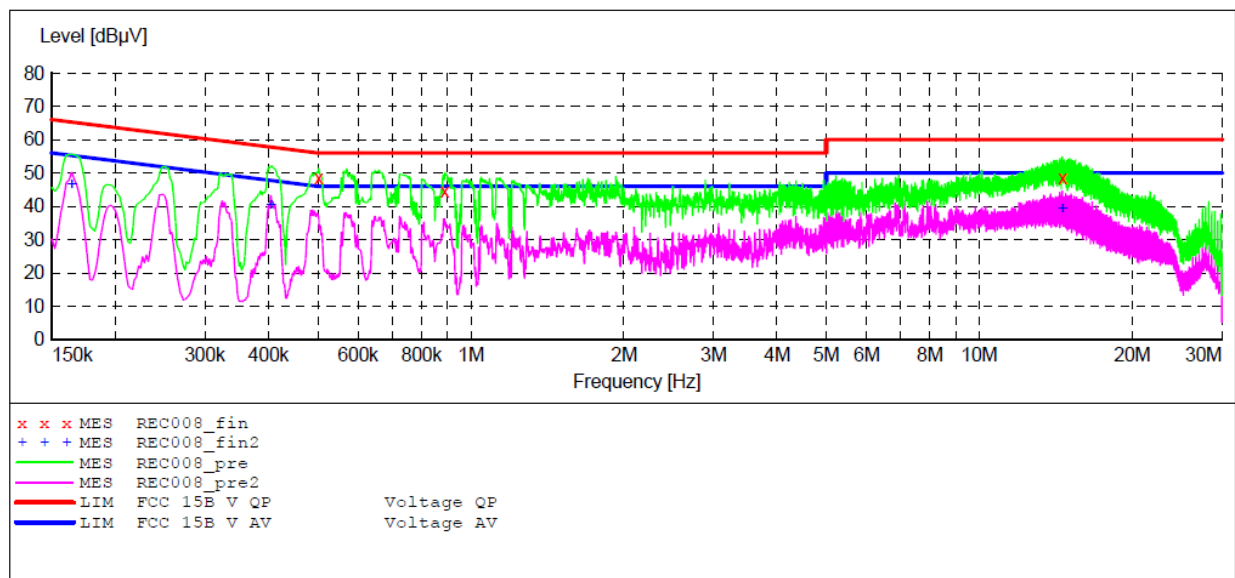
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1203
 Manufacturer: TQL TRADING INC
 Operating Condition: AUX IN
 Test Site: 2#Shielding Room
 Operator: star
 Test Specification: L 120V/60Hz
 Comment: Report No.:ATE20161343
 Start of Test: 2016-7-7 / 15:09:18

SCAN TABLE: "V 150K-30MHz fin"

Short Description: SUB STD VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN (ESH3-Z5)
 Average



MEASUREMENT RESULT: "REC008_fin"

2016-7-7 15:10

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.502000	48.50	11.5	56	7.5	QP	L1	GND
0.888000	44.60	11.6	56	11.4	QP	L1	GND
14.568500	48.50	11.9	60	11.5	QP	L1	GND

MEASUREMENT RESULT: "REC008_fin2"

2016-7-7 15:10

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.164000	46.60	10.4	55.3	8.7	AV	L1	GND
0.404000	40.60	11.3	47.8	7.2	AV	L1	GND
14.568500	39.50	11.9	50	10.5	AV	L1	GND

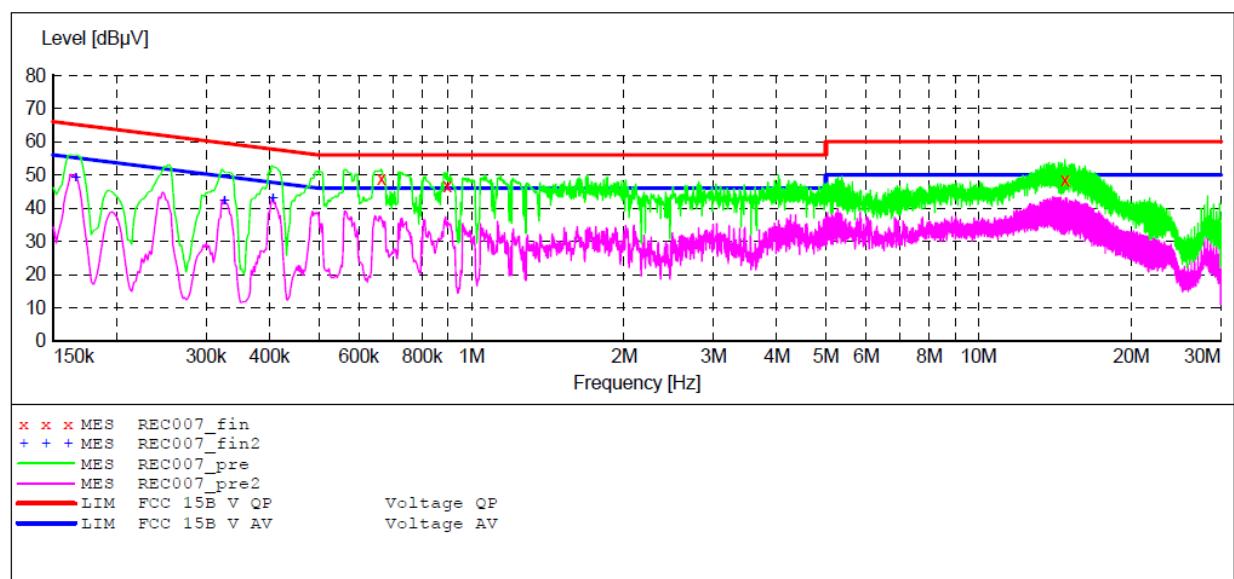
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1203
 Manufacturer: TQL TRADING INC
 Operating Condition: AUX IN
 Test Site: 2#Shielding Room
 Operator: star
 Test Specification: N 120V/60Hz
 Comment: Report No.:ATE20161343
 Start of Test: 2016-7-7 / 15:07:18

SCAN TABLE: "V 150K-30MHz fin"

Short Description: SUB STD VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN (ESH3-Z5)
 Average



MEASUREMENT RESULT: "REC007_fin"

2016-7-7 15:08

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.664000	49.00	11.5	56	7.0	QP	N	GND
0.896000	46.50	11.6	56	9.5	QP	N	GND
14.802500	48.60	11.9	60	11.4	QP	N	GND

MEASUREMENT RESULT: "REC007_fin2"

2016-7-7 15:08

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.166000	49.20	10.4	55.2	6.0	AV	N	GND
0.326000	42.40	11.1	49.6	7.2	AV	N	GND
0.406000	43.00	11.3	47.7	4.7	AV	N	GND

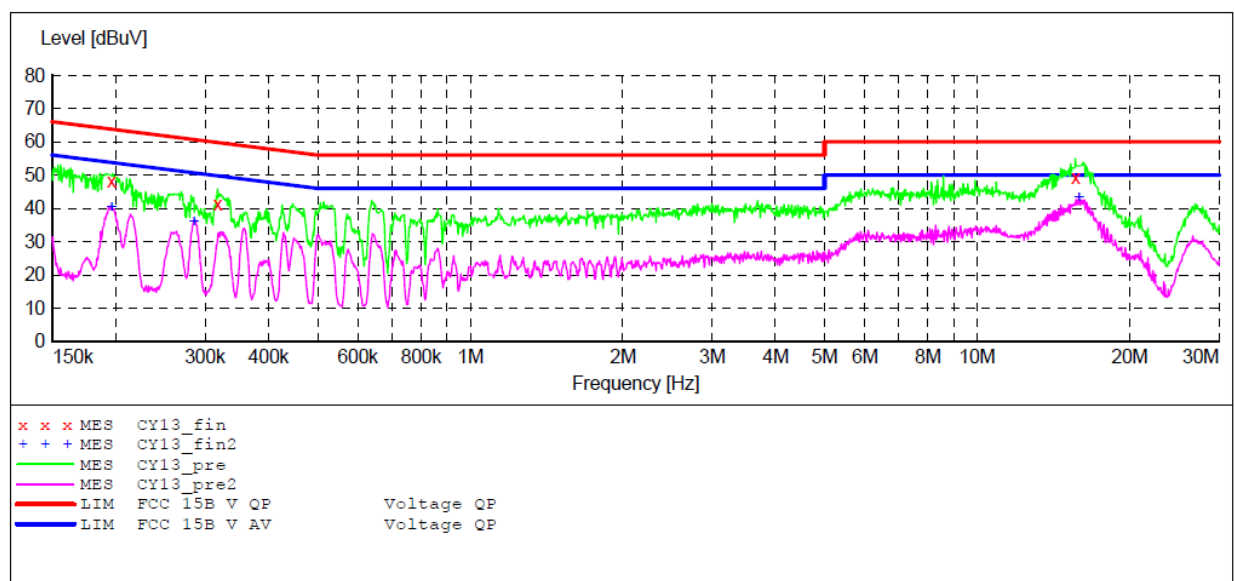
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1203
 Manufacturer: TQL TRADING INC
 Operating Condition: AUX IN
 Test Site: 2#Shielding Room
 Operator: Star
 Test Specification: N 220V/60Hz
 Comment: Report No.:ATE20161343

SCAN TABLE: "V 150K-30MHz fin"

Short Description: SUB STD VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 0.4 % QuasiPeak 1.0 s 9 kHz LISN (ESH3-Z5)
 Average



MEASUREMENT RESULT: "CY13_fin"

2016-7-7 15:43

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.195828	48.10	11.9	63.8	15.7	QP	N	GND
0.317194	41.10	12.0	59.8	18.7	QP	N	GND
15.625660	49.20	12.0	60	10.8	QP	N	GND

MEASUREMENT RESULT: "CY13_fin2"

2016-7-7 15:43

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.195828	40.30	11.9	53.8	13.5	AV	N	GND
0.284768	36.20	12.0	50.7	14.5	AV	N	GND
15.861456	43.50	12.0	50	6.5	AV	N	GND

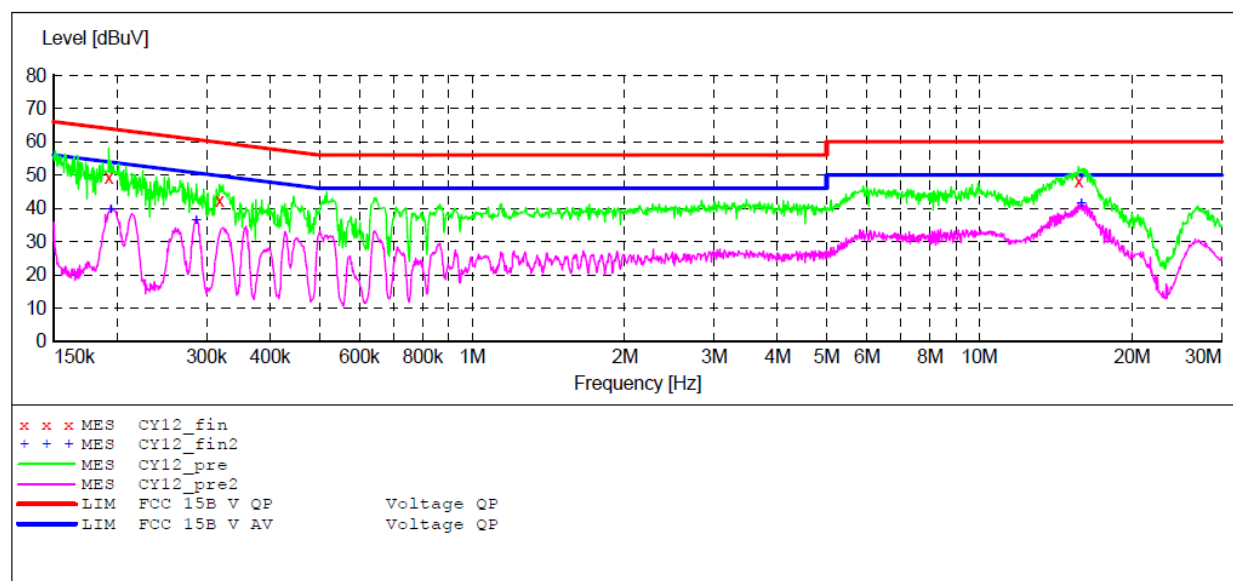
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1203
 Manufacturer: TQL TRADING INC
 Operating Condition: AUX IN
 Test Site: 2#Shielding Room
 Operator: Star
 Test Specification: L 220V/60Hz
 Comment: Report No.:ATE20161343

SCAN TABLE: "V 150K-30MHz fin"

Short Description: SUB STD VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 0.4 % QuasiPeak 1.0 s 9 kHz LISN (ESH3-Z5)
 Average



MEASUREMENT RESULT: "CY12_fin"

2016-7-7 15:41

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.192340	49.20	11.9	63.9	14.7	QP	L1	GND
0.318145	42.10	12.0	59.8	17.7	QP	L1	GND
15.672537	48.30	12.0	60	11.7	QP	L1	GND

MEASUREMENT RESULT: "CY12_fin2"

2016-7-7 15:41

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.194076	39.80	11.9	53.9	14.1	AV	L1	GND
0.285622	36.60	12.0	50.7	14.1	AV	L1	GND
15.861456	41.50	12.0	50	8.5	AV	L1	GND

Test mode 4

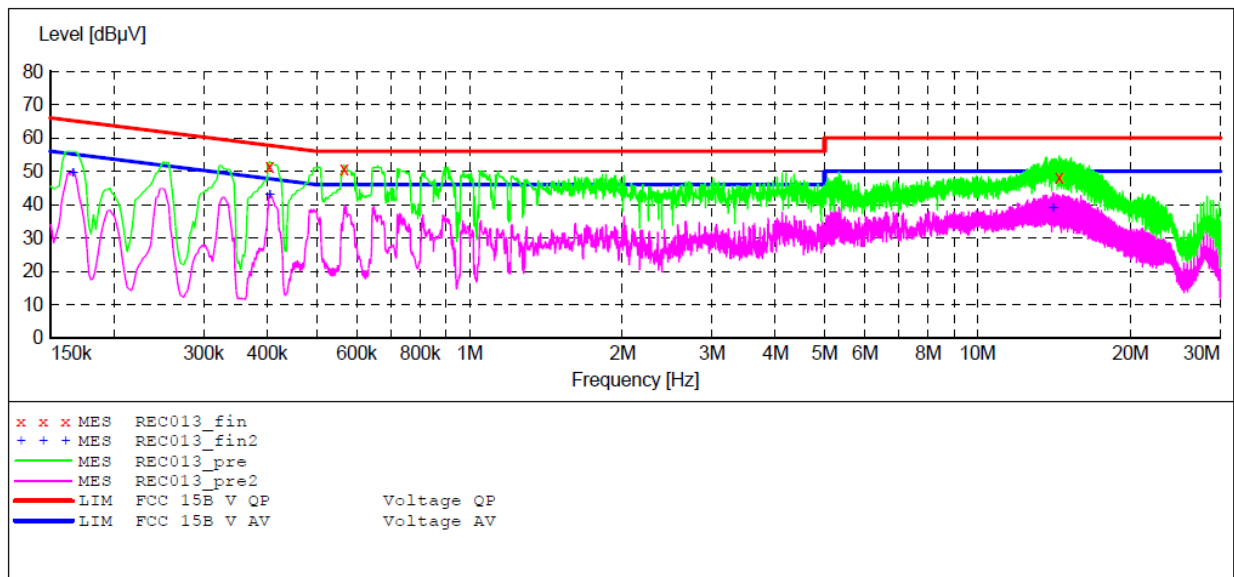
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1203
 Manufacturer: TQL TRADING INC
 Operating Condition: 186.5MHz RX
 Test Site: 2#Shielding Room
 Operator: star
 Test Specification: N 120V/60Hz
 Comment: Report No.:ATE20161343
 Start of Test: 2016-7-7 / 12:34:12

SCAN TABLE: "V 150K-30MHz fin"

Short Description: SUB STD VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN (ESH3-Z5)
 Average



MEASUREMENT RESULT: "REC013_fin"

2016-7-7 12:36

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.404000	51.30	11.3	57.8	6.5	QP	N	GND
0.566000	50.60	11.5	56	5.4	QP	N	GND
14.487500	48.30	11.9	60	11.7	QP	N	GND

MEASUREMENT RESULT: "REC013_fin2"

2016-7-7 12:36

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.166000	49.50	10.4	55.2	5.7	AV	N	GND
0.404000	42.90	11.3	47.8	4.9	AV	N	GND
14.073500	39.00	11.9	50	11.0	AV	N	GND

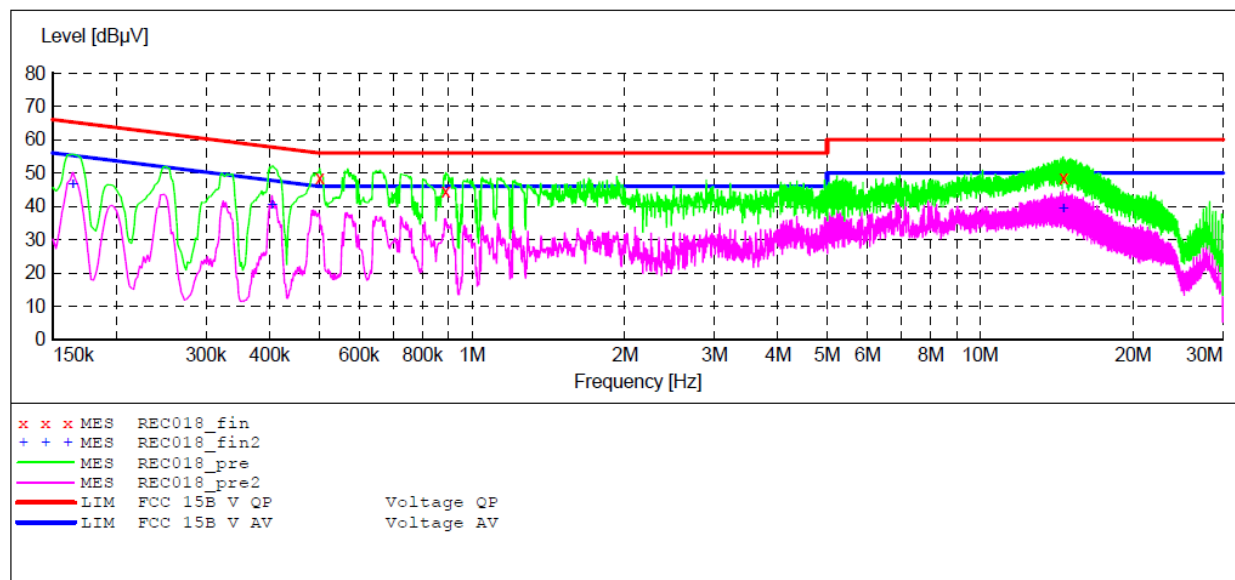
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1203
 Manufacturer: TQL TRADING INC
 Operating Condition: 186.5MHz RX
 Test Site: 2#Shielding Room
 Operator: star
 Test Specification: L 120V/60Hz
 Comment: Report No.:ATE20161343
 Start of Test: 2016-7-7 / 13:16:12

SCAN TABLE: "V 150K-30MHz fin"

Short Description: SUB STD VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN (ESH3-Z5)
 Average



MEASUREMENT RESULT: "REC018_fin"

2016-7-7 13:18

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.502000	48.50	11.5	56	7.5	QP	L1	GND
0.888000	44.60	11.6	56	11.4	QP	L1	GND
14.568500	48.50	11.9	60	11.5	QP	L1	GND

MEASUREMENT RESULT: "REC018_fin2"

2016-7-7 13:18

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.164000	46.60	10.4	55.3	8.7	AV	L1	GND
0.404000	40.60	11.3	47.8	7.2	AV	L1	GND
14.568500	39.50	11.9	50	10.5	AV	L1	GND

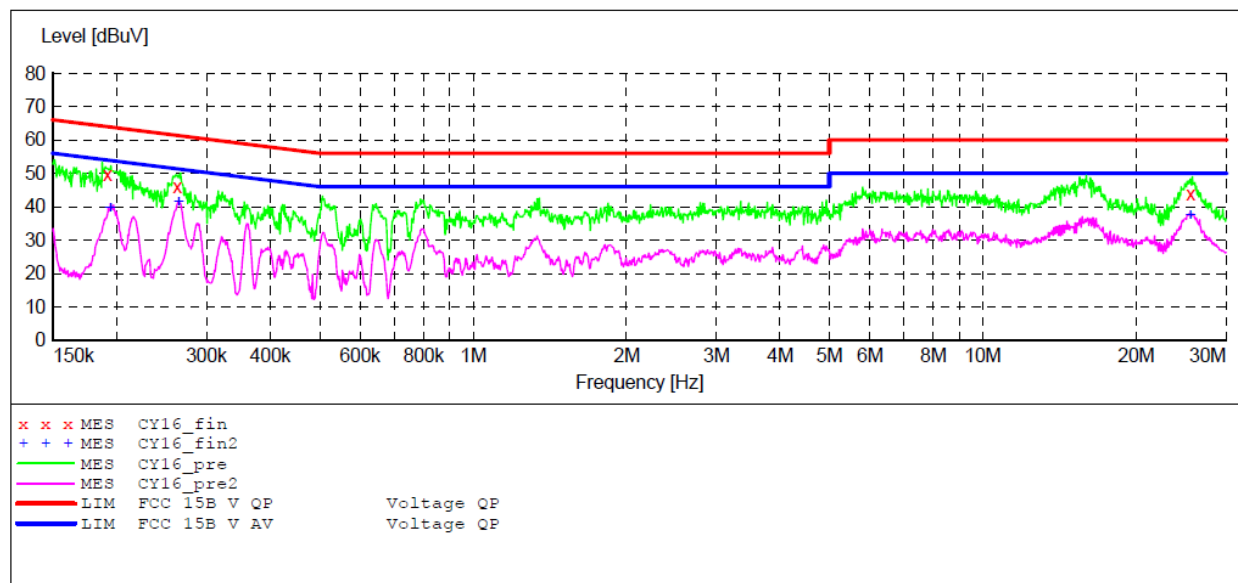
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1203
 Manufacturer: TQL TRADING INC
 Operating Condition: 186.5MHz RX
 Test Site: 2#Shielding Room
 Operator: Star
 Test Specification: L 220V/60Hz
 Comment: Report No.:ATE20161343
 Start of Test: 2016-7-7 / 13:45:33

SCAN TABLE: "V 150K-30MHz fin"

Short Description: SUB STD VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 0.4 % QuasiPeak 1.0 s 9 kHz LISN(ESH3-Z5)
 Average



MEASUREMENT RESULT: "CY16_fin"

2016-7-7 13:47

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.191764	49.50	11.9	64	14.5	QP	L1	GND
0.262643	46.10	11.9	61.3	15.2	QP	L1	GND
25.538265	43.60	12.0	60	16.4	QP	L1	GND

MEASUREMENT RESULT: "CY16_fin2"

2016-7-7 13:47

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.194076	39.70	11.9	53.9	14.2	AV	L1	GND
0.264221	41.50	11.9	51.3	9.8	AV	L1	GND
25.538265	37.70	12.0	50	12.3	AV	L1	GND

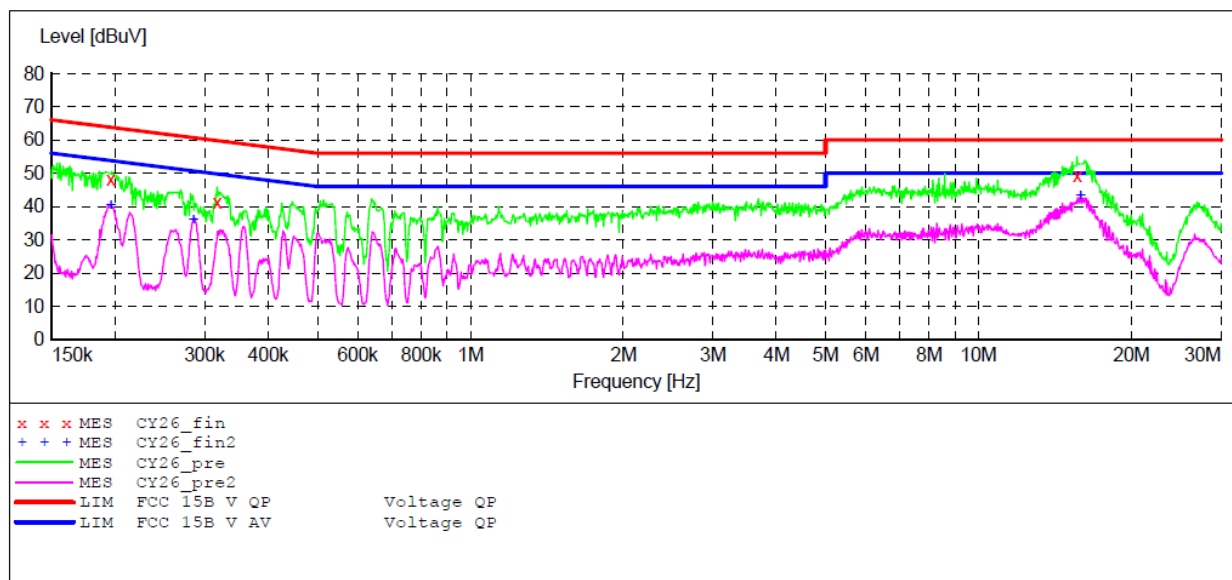
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1203
 Manufacturer: TQL TRADING INC
 Operating Condition: 186.5MHz RX
 Test Site: 2#Shielding Room
 Operator: Star
 Test Specification: N 220V/60Hz
 Comment: Report No.:ATE20161343

SCAN TABLE: "V 150K-30MHz fin"

Short Description: SUB STD VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 0.4 % QuasiPeak 1.0 s 9 kHz LISN (ESH3-Z5)
 Average



MEASUREMENT RESULT: "CY26_fin"

2016-7-7 15:48

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.195828	48.10	11.9	63.8	15.7	QP	N	GND
0.317194	41.10	12.0	59.8	18.7	QP	N	GND
15.625660	49.20	12.0	60	10.8	QP	N	GND

MEASUREMENT RESULT: "CY26_fin2"

2016-7-7 15:48

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.195828	40.30	11.9	53.8	13.5	AV	N	GND
0.284768	36.20	12.0	50.7	14.5	AV	N	GND
15.861456	43.50	12.0	50	6.5	AV	N	GND

Test mode 5

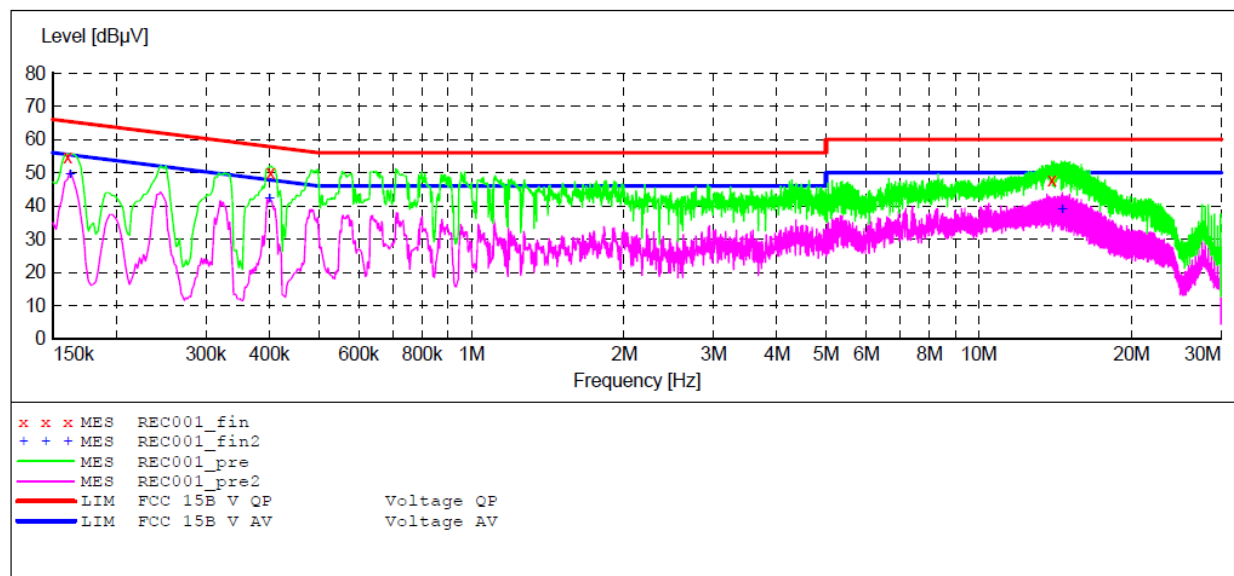
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1203
 Manufacturer: TQL TRADING INC
 Operating Condition: USB Play
 Test Site: 2#Shielding Room
 Operator: star
 Test Specification: L 120V/60Hz
 Comment: Report No.:ATE20161343
 Start of Test: 2016-7-7 / 14:50:56

SCAN TABLE: "V 150K-30MHz fin"

Short Description: SUB STD VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN (ESH3-Z5)
 Average



MEASUREMENT RESULT: "REC001_fin"

2016-7-7 14:52

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.160000	54.80	10.4	65.5	10.7	QP	L1	GND
0.402000	50.10	11.3	57.8	7.7	QP	L1	GND
13.929500	47.90	11.9	60	12.1	QP	L1	GND

MEASUREMENT RESULT: "REC001_fin2"

2016-7-7 14:52

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.162000	49.50	10.4	55.4	5.9	AV	L1	GND
0.400000	42.30	11.3	47.9	5.6	AV	L1	GND
14.591000	39.10	11.9	50	10.9	AV	L1	GND

ACCURATE TECHNOLOGY CO., LTD

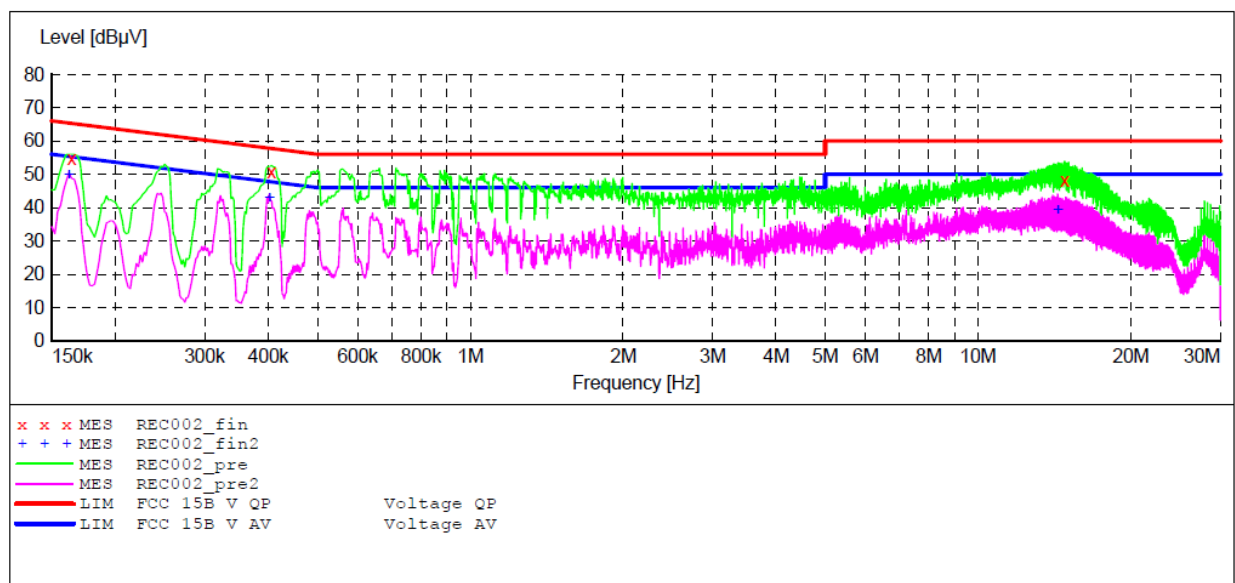
CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1203
 Manufacturer: TQL TRADING INC
 Operating Condition: USB Play
 Test Site: 2#Shielding Room
 Operator: star
 Test Specification: N 120V/60Hz
 Comment: Report No.:ATE20161343
 Start of Test: 2016-7-7 / 14:53:39

SCAN TABLE: "V 150K-30MHz fin"

Short Description: SUB STD VTERM2 1.70

Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
Frequency	Frequency	Width				
150.0 kHz	30.0 MHz	4.5 kHz	QuasiPeak	1.0 s	9 kHz	LISN (ESH3-Z5)
Average						



MEASUREMENT RESULT: "REC002_fin"

2016-7-7 14:55

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.164000	54.80	10.4	65.3	10.5	QP	N	GND
0.406000	50.80	11.3	57.8	6.9	QP	N	GND
14.811500	48.20	11.9	60	11.8	QP	N	GND

MEASUREMENT RESULT: "REC002_fin2"

2016-7-7 14:55

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.162000	49.90	10.4	55.4	5.5	AV	N	GND
0.402000	42.90	11.3	47.8	4.9	AV	N	GND
14.348000	39.20	11.9	50	10.8	AV	N	GND

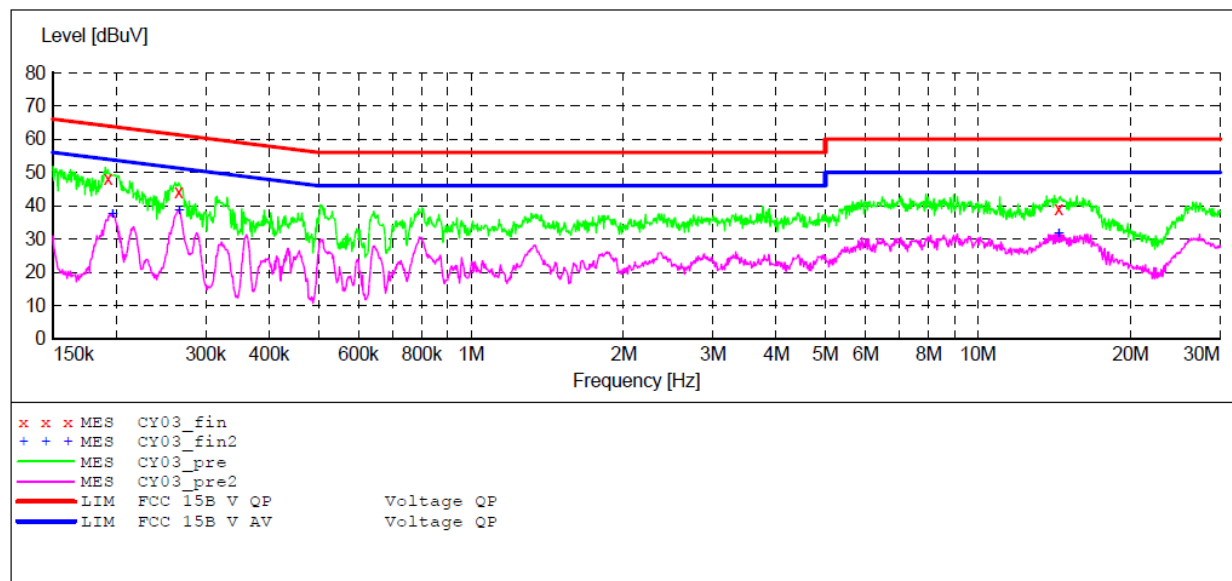
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1203
 Manufacturer: TQL TRADING INC
 Operating Condition: USB Play
 Test Site: 2#Shielding Room
 Operator: Star
 Test Specification: L 220V/60Hz
 Comment: Report No.:ATE20161343
 Start of Test: 2016-7-7 / 15:12:57

SCAN TABLE: "V 150K-30MHz fin"

Short Description: SUB STD VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 0.4 % QuasiPeak 1.0 s 9 kHz LISN (ESH3-Z5)
 Average



MEASUREMENT RESULT: "CY03_fin"

2016-7-7 15:14

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.192340	48.10	11.9	63.9	15.8	QP	L1	GND
0.265014	44.00	11.9	61.3	17.3	QP	L1	GND
14.411633	39.00	12.0	60	21.0	QP	L1	GND

MEASUREMENT RESULT: "CY03_fin2"

2016-7-7 15:14

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.196415	37.60	11.9	53.8	16.2	AV	L1	GND
0.265809	38.60	11.9	51.2	12.6	AV	L1	GND
14.411633	31.70	12.0	50	18.3	AV	L1	GND

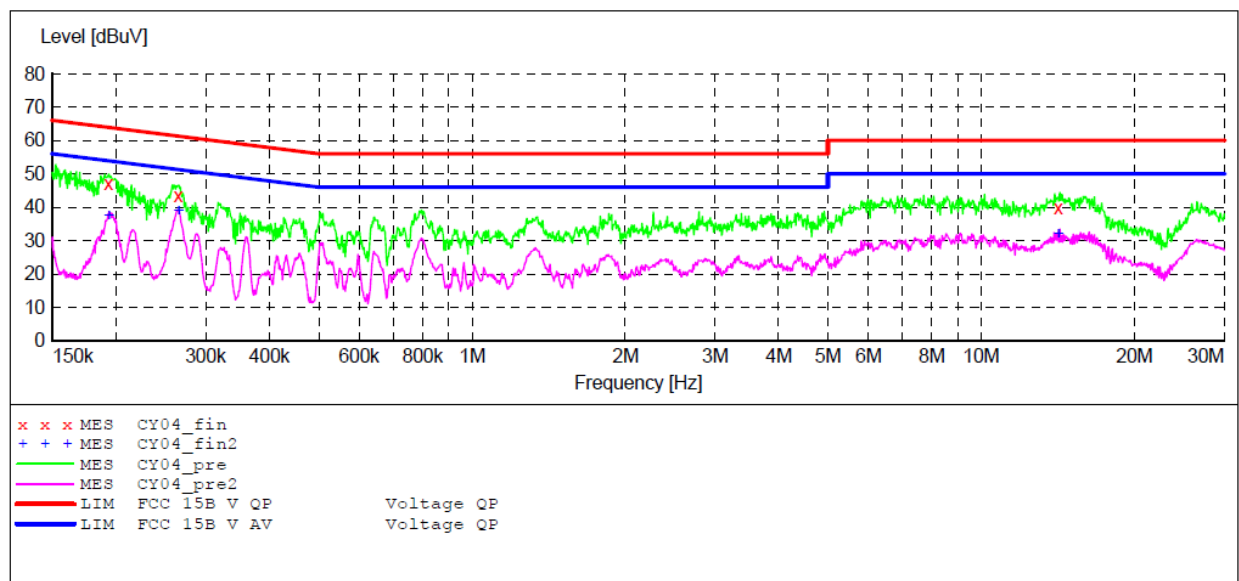
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1203
 Manufacturer: TQL TRADING INC
 Operating Condition: USB Play
 Test Site: 2#Shielding Room
 Operator: Star
 Test Specification: N 220V/60Hz
 Comment: Report No.:ATE20161343
 Start of Test: 2016-7-7 / 15:14:59

SCAN TABLE: "V 150K-30MHz fin"

Short Description: SUB STD VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 0.4 % QuasiPeak 1.0 s 9 kHz LISN (ESH3-Z5)
 Average



MEASUREMENT RESULT: "CY04_fin"

2016-7-7 15:16

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.192917	47.20	11.9	63.9	16.7	QP	N	GND
0.264221	43.40	11.9	61.3	17.9	QP	N	GND
14.154925	39.60	12.0	60	20.4	QP	N	GND

MEASUREMENT RESULT: "CY04_fin2"

2016-7-7 15:16

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.193495	37.40	11.9	53.9	16.5	AV	N	GND
0.265014	38.90	11.9	51.3	12.4	AV	N	GND
14.154925	32.20	12.0	50	17.8	AV	N	GND

Test mode 6

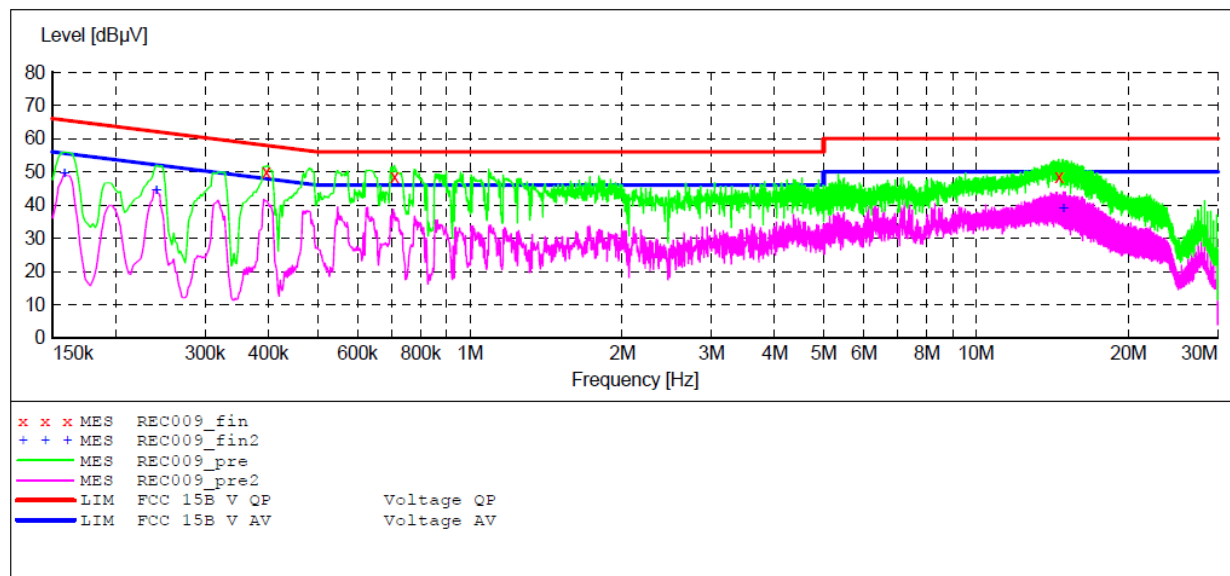
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1203
 Manufacturer: TQL TRADING INC
 Operating Condition: FM RX
 Test Site: 2#Shielding Room
 Operator: star
 Test Specification: L 120V/60Hz
 Comment: Report No.:ATE20161343
 Start of Test: 2016-7-7 / 15:11:14

SCAN TABLE: "V 150K-30MHz fin"

Short Description: SUB STD VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN (ESH3-Z5)
 Average



MEASUREMENT RESULT: "REC009_fin"

2016-7-7 15:13

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.396000	49.90	11.3	57.7	8.0	QP	L1	GND
0.710000	48.60	11.5	56	7.4	QP	L1	GND
14.564000	48.60	11.9	60	11.4	QP	L1	GND

MEASUREMENT RESULT: "REC009_fin2"

2016-7-7 15:13

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.158000	49.40	10.4	55.6	6.2	AV	L1	GND
0.240000	44.30	10.8	52.1	7.8	AV	L1	GND
14.870000	39.10	11.9	50	10.9	AV	L1	GND

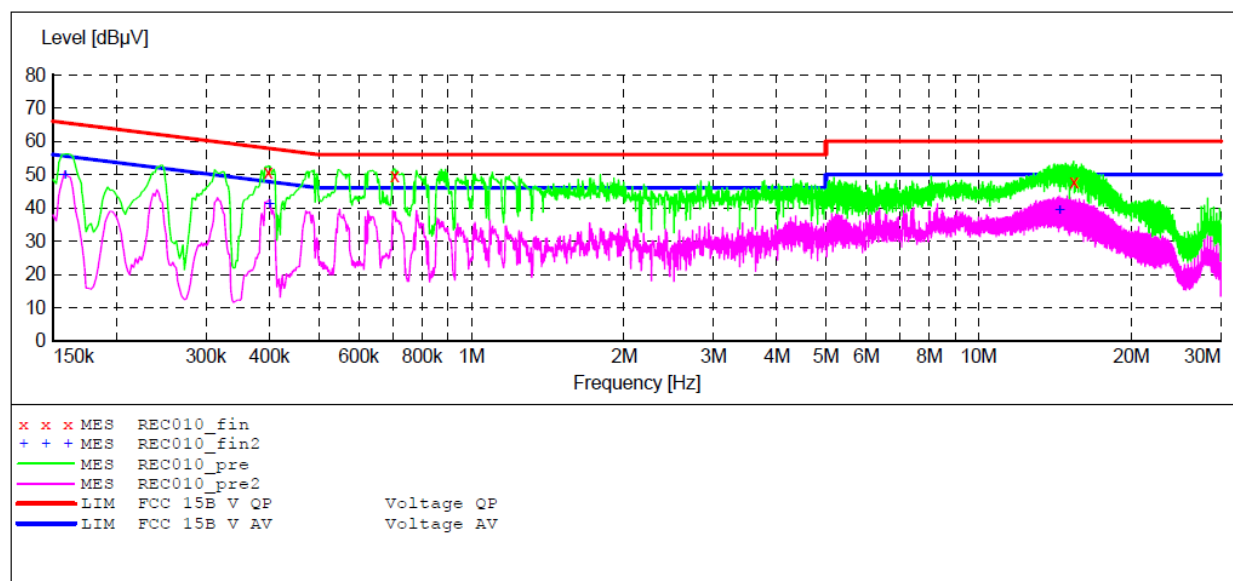
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1203
 Manufacturer: TQL TRADING INC
 Operating Condition: FM RX
 Test Site: 2#Shielding Room
 Operator: star
 Test Specification: N 120V/60Hz
 Comment: Report No.:ATE20161343
 Start of Test: 2016-7-7 / 15:13:28

SCAN TABLE: "V 150K-30MHz fin"

Short Description: SUB STD VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN(ESH3-Z5)
 Average



MEASUREMENT RESULT: "REC010_fin"

2016-7-7 15:15

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.398000	50.60	11.3	57.9	7.3	QP	N	GND
0.706000	49.50	11.5	56	6.5	QP	N	GND
15.392000	47.80	11.9	60	12.2	QP	N	GND

MEASUREMENT RESULT: "REC010_fin2"

2016-7-7 15:15

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.158000	49.80	10.4	55.6	5.8	AV	N	GND
0.400000	41.30	11.3	47.9	6.6	AV	N	GND
14.415500	39.20	11.9	50	10.8	AV	N	GND

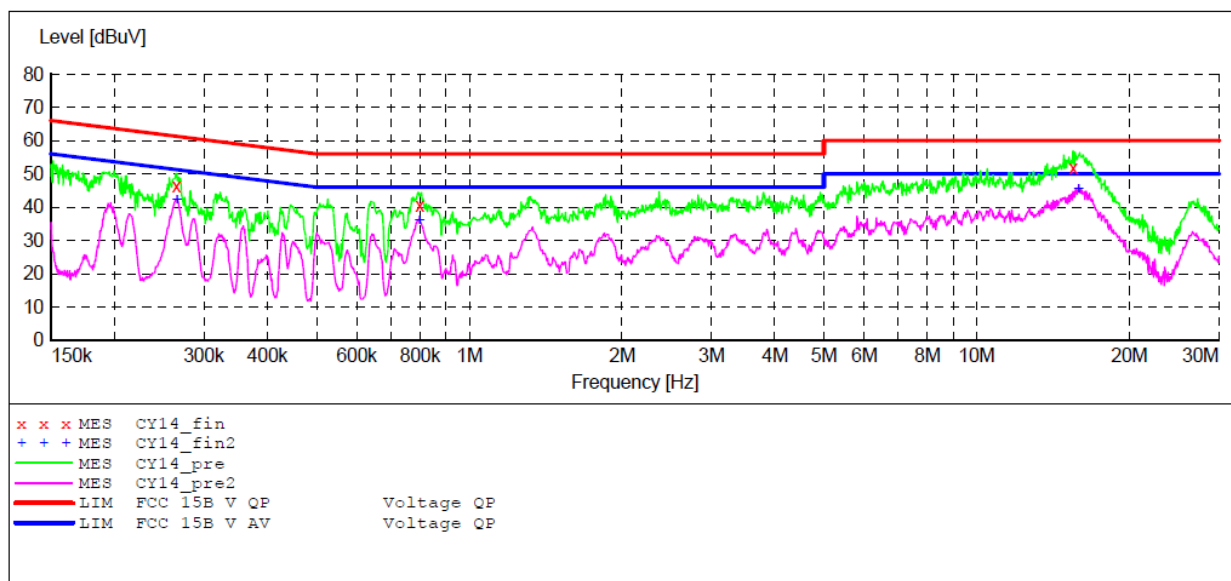
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1203
 Manufacturer: TQL TRADING INC
 Operating Condition: FM RX
 Test Site: 2#Shielding Room
 Operator: Star
 Test Specification: N 220V/60Hz
 Comment: Report No.:ATE20161343

SCAN TABLE: "V 150K-30MHz fin"

Short Description: SUB STD VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 0.4 % QuasiPeak 1.0 s 9 kHz LISN (ESH3-Z5)
 Average



MEASUREMENT RESULT: "CY14_fin"

2016-7-7 15:47

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.264221	46.30	11.9	61.3	15.0	QP	N	GND
0.798017	40.60	11.9	56	15.4	QP	N	GND
15.485869	51.60	12.0	60	8.4	QP	N	GND

MEASUREMENT RESULT: "CY14_fin2"

2016-7-7 15:47

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.265014	42.40	11.9	51.3	8.9	AV	N	GND
0.798017	35.90	11.9	46	10.1	AV	N	GND
15.861456	45.50	12.0	50	4.5	AV	N	GND

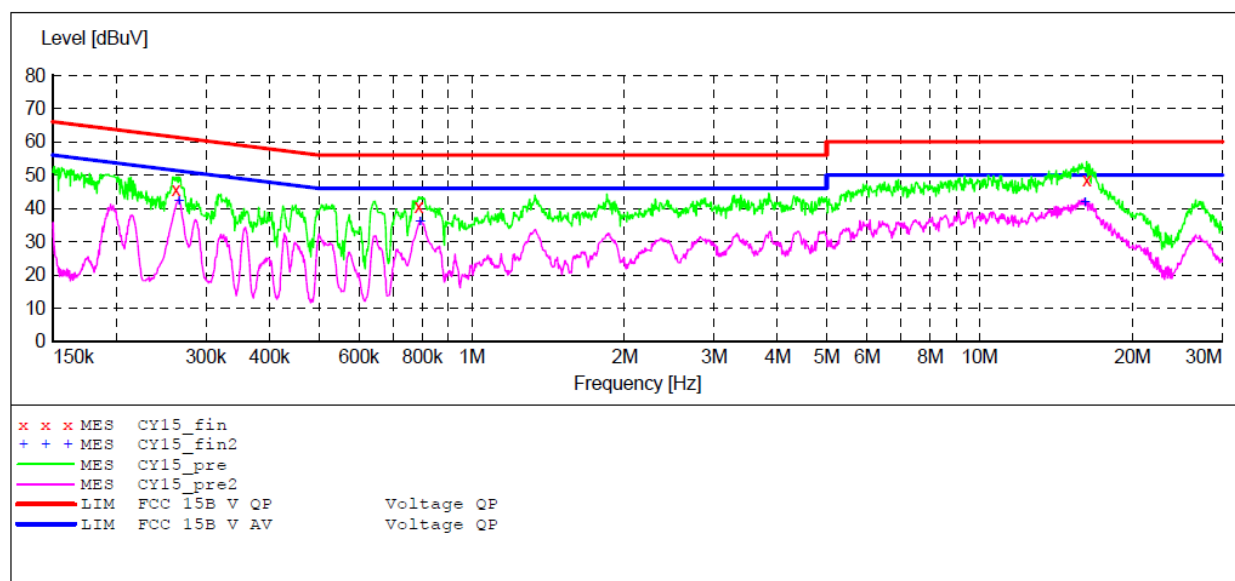
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1203
 Manufacturer: TQL TRADING INC
 Operating Condition: FM RX
 Test Site: 2#Shielding Room
 Operator: Star
 Test Specification: L 220V/60Hz
 Comment: Report No.:ATE20161343

SCAN TABLE: "V 150K-30MHz fin"

Short Description: SUB STD VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 0.4 % QuasiPeak 1.0 s 9 kHz LISN (ESH3-Z5)
 Average



MEASUREMENT RESULT: "CY15_fin"

2016-7-7 15:49

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.261857	45.50	11.9	61.4	15.9	QP	L1	GND
0.786153	40.30	11.9	56	15.7	QP	L1	GND
16.246152	48.60	12.0	60	11.4	QP	L1	GND

MEASUREMENT RESULT: "CY15_fin2"

2016-7-7 15:49

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.265014	42.30	11.9	51.3	9.0	AV	L1	GND
0.790877	36.20	11.9	46	9.8	AV	L1	GND
16.100809	41.80	12.0	50	8.2	AV	L1	GND

Test mode 7

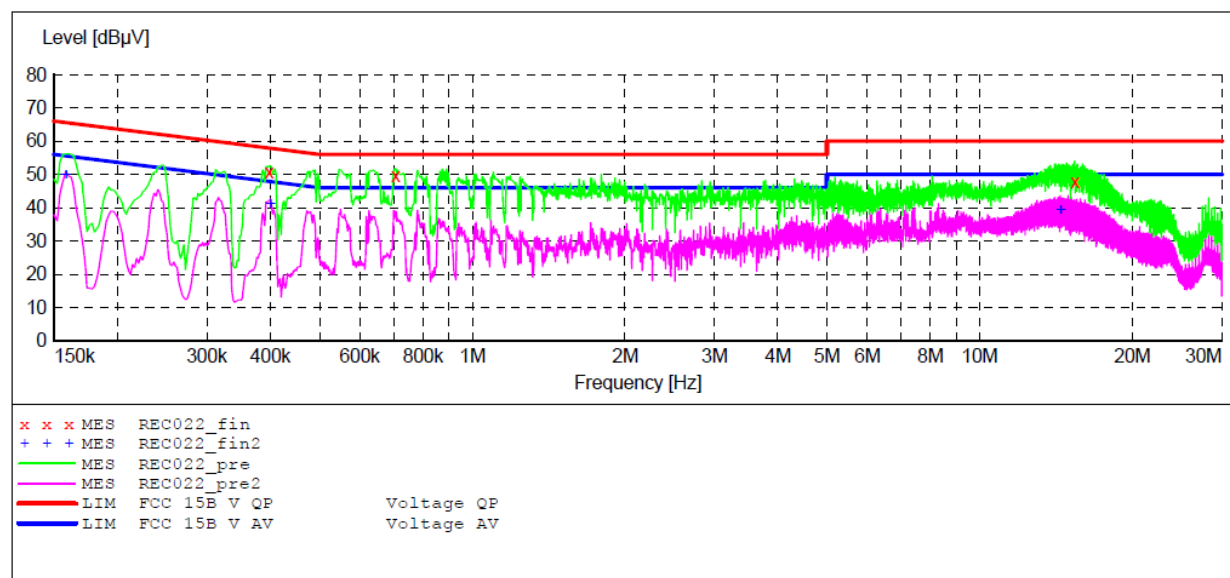
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1203
 Manufacturer: TQL TRADING INC
 Operating Condition: GT IN
 Test Site: 2#Shielding Room
 Operator: star
 Test Specification: N 120V/60Hz
 Comment: Report No.:ATE20161343
 Start of Test: 2016-7-7 / 16:04:28

SCAN TABLE: "V 150K-30MHz fin"

Short Description: SUB STD VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN (ESH3-Z5)
 Average



MEASUREMENT RESULT: "REC022_fin"

2016-7-7 16:05

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.398000	50.60	11.3	57.9	7.3	QP	N	GND
0.706000	49.50	11.5	56	6.5	QP	N	GND
15.392000	47.80	11.9	60	12.2	QP	N	GND

MEASUREMENT RESULT: "REC022_fin2"

2016-7-7 16:05

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.158000	49.80	10.4	55.6	5.8	AV	N	GND
0.400000	41.30	11.3	47.9	6.6	AV	N	GND
14.415500	39.20	11.9	50	10.8	AV	N	GND

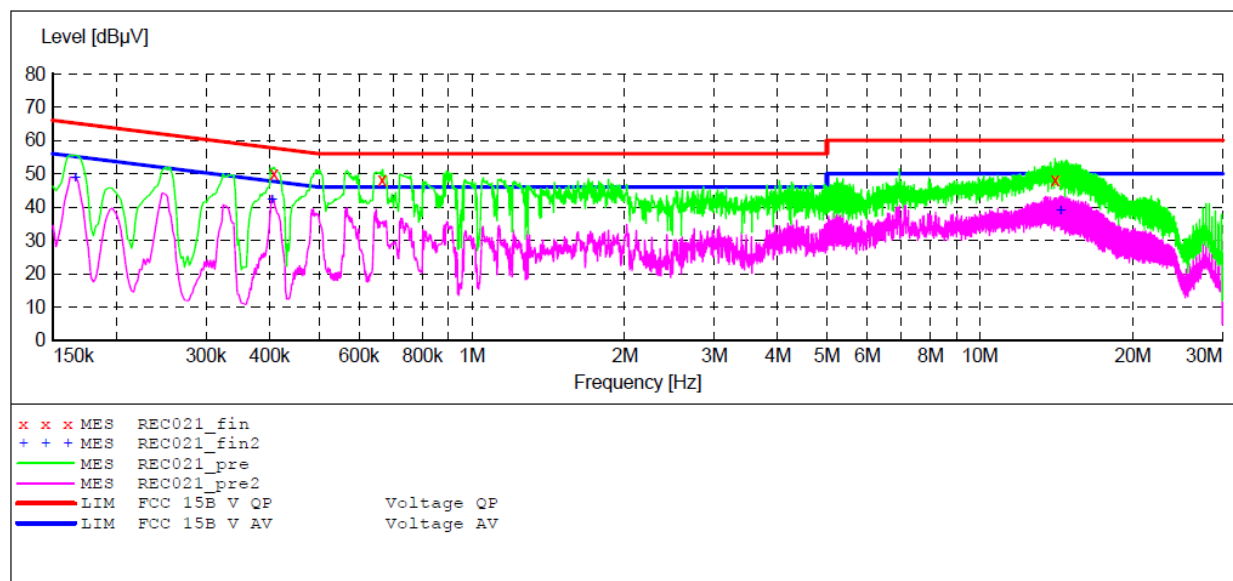
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1203
 Manufacturer: TQL TRADING INC
 Operating Condition: GT IN
 Test Site: 2#Shielding Room
 Operator: star
 Test Specification: L 120V/60Hz
 Comment: Report No.:ATE20161343
 Start of Test: 2016-7-7 / 15:23:46

SCAN TABLE: "V 150K-30MHz fin"

Short Description: SUB STD VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN (ESH3-Z5)
 Average



MEASUREMENT RESULT: "REC021_fin"

2016-7-7 15:24

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.408000	50.00	11.3	57.7	7.7	QP	L1	GND
0.666000	48.00	11.5	56	8.0	QP	L1	GND
14.046500	48.10	11.9	60	11.9	QP	L1	GND

MEASUREMENT RESULT: "REC021_fin2"

2016-7-7 15:24

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.166000	48.90	10.4	55.2	6.3	AV	L1	GND
0.404000	42.10	11.3	47.8	5.7	AV	L1	GND
14.406500	39.10	11.9	50	10.9	AV	L1	GND

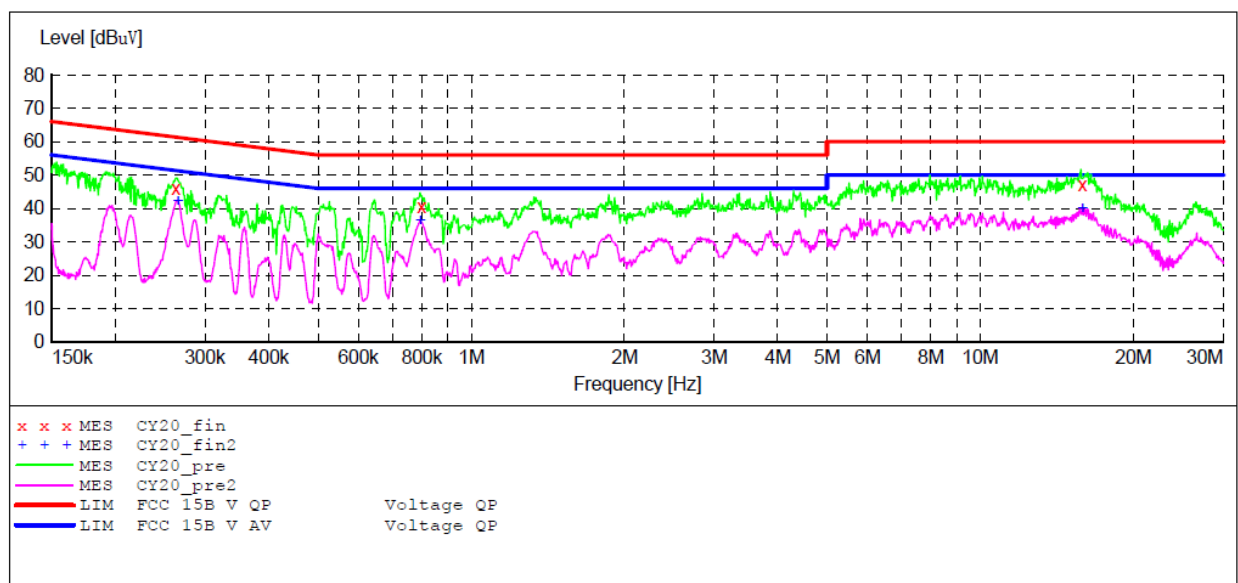
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1203
 Manufacturer: TQL TRADING INC
 Operating Condition: GT IN
 Test Site: 2#Shielding Room
 Operator: Star
 Test Specification: N 220V/60Hz
 Comment: Report No.:ATE20161343
 Start of Test: 2016-7-7 / 16:17:10

SCAN TABLE: "V 150K-30MHz fin"

Short Description: SUB STD VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 0.4 % QuasiPeak 1.0 s 9 kHz LISN (ESH3-Z5)
 Average



MEASUREMENT RESULT: "CY20_fin"

2016-7-7 16:19

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.262643	46.00	11.9	61.3	15.3	QP	N	GND
0.798017	40.60	11.9	56	15.4	QP	N	GND
15.861456	47.10	12.0	60	12.9	QP	N	GND

MEASUREMENT RESULT: "CY20_fin2"

2016-7-7 16:19

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.265014	42.40	11.9	51.3	8.9	AV	N	GND
0.793250	36.40	11.9	46	9.6	AV	N	GND
15.861456	40.20	12.0	50	9.8	AV	N	GND

Test mode 8

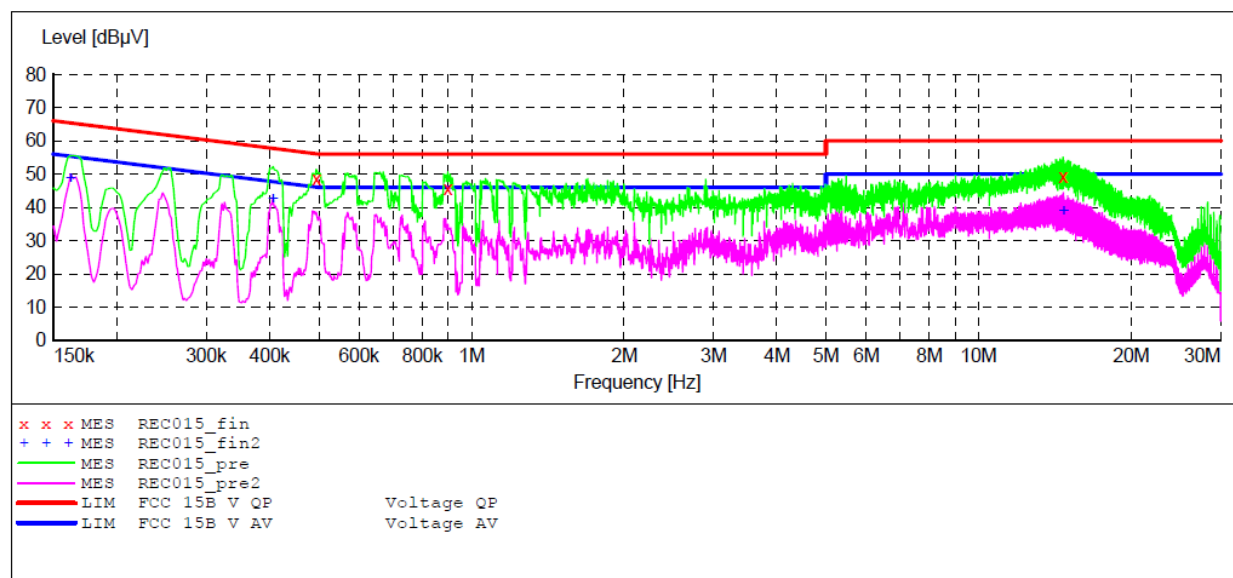
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1203
 Manufacturer: TQL TRADING INC
 Operating Condition: MIC IN
 Test Site: 2#Shielding Room
 Operator: star
 Test Specification: L 120V/60Hz
 Comment: Report No.:ATE20161343
 Start of Test: 2016-7-7 / 12:03:19

SCAN TABLE: "V 150K-30MHz fin"

Short Description: SUB STD VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN (ESH3-Z5)
 Average



MEASUREMENT RESULT: "REC015_fin"

2016-7-7 12:05

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.494000	48.60	11.5	56.1	7.5	QP	L1	GND
0.898000	45.70	11.6	56	10.3	QP	L1	GND
14.663000	49.10	11.9	60	10.9	QP	L1	GND

MEASUREMENT RESULT: "REC015_fin2"

2016-7-7 12:05

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.162000	48.90	10.4	55.4	6.5	AV	L1	GND
0.406000	42.70	11.3	47.7	5.0	AV	L1	GND
14.690000	39.00	11.9	50	11.0	AV	L1	GND

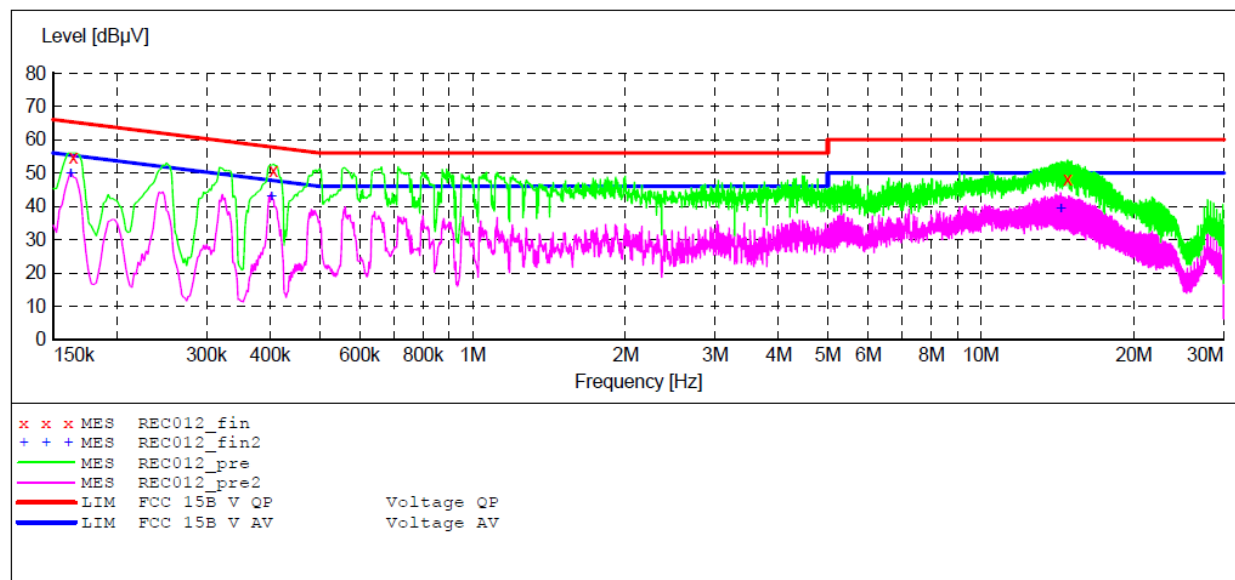
ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1203
 Manufacturer: TQL TRADING INC
 Operating Condition: MIC IN
 Test Site: 2#Shielding Room
 Operator: star
 Test Specification: N 120V/60Hz
 Comment: Report No.:ATE20161343
 Start of Test: 2016-7-7 / 14:23:12

SCAN TABLE: "V 150K-30MHz fin"

Short Description: SUB STD VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN(ESH3-Z5)
 Average



MEASUREMENT RESULT: "REC012_fin"

2016-7-7 14:25

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.164000	54.80	10.4	65.3	10.5	QP	N	GND
0.406000	50.80	11.3	57.7	6.9	QP	N	GND
14.811500	48.20	11.9	60	11.8	QP	N	GND

MEASUREMENT RESULT: "REC012_fin2"

2016-7-7 14:25

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.162000	49.90	10.4	55.4	5.5	AV	N	GND
0.402000	42.90	11.3	47.8	4.9	AV	N	GND
14.348000	39.20	11.9	50	10.8	AV	N	GND

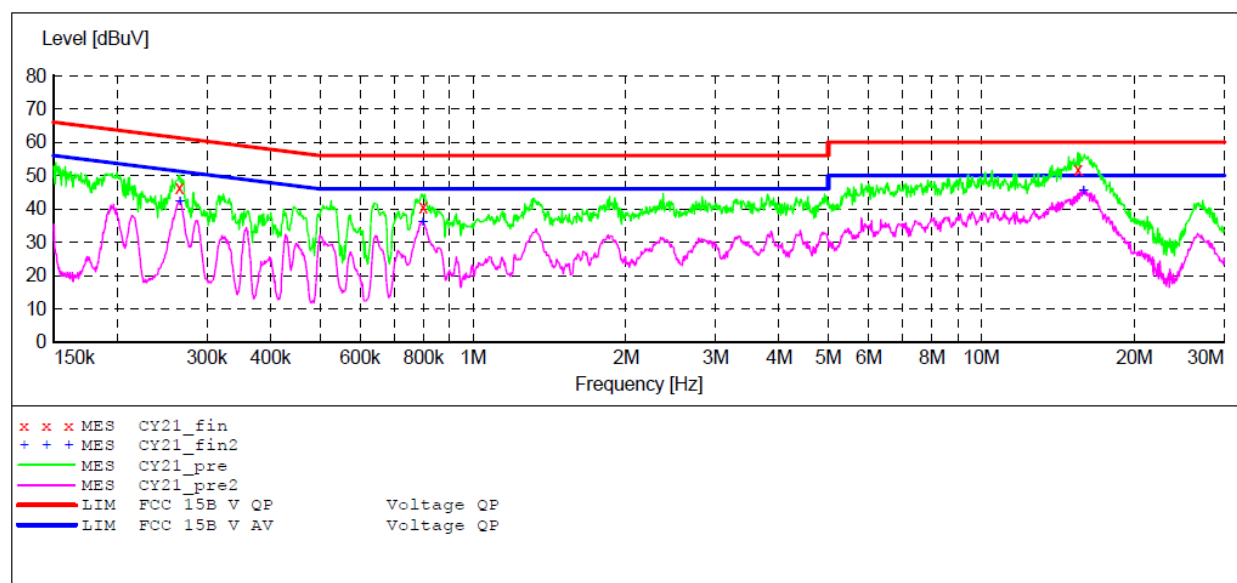
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1203
 Manufacturer: TQL TRADING INC
 Operating Condition: MIC IN
 Test Site: 2#Shielding Room
 Operator: Star
 Test Specification: N 220V/60Hz
 Comment: Report No.:ATE20161343

SCAN TABLE: "V 150K-30MHz fin"

Short Description: SUB STD VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 0.4 % QuasiPeak 1.0 s 9 kHz LISN (ESH3-Z5)
 Average



MEASUREMENT RESULT: "CY21_fin"

2016-7-7 16:54

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.264221	46.30	11.9	61.3	15.0	QP	N	GND
0.798017	40.60	11.9	56	15.4	QP	N	GND
15.485869	51.60	12.0	60	8.4	QP	N	GND

MEASUREMENT RESULT: "CY21_fin2"

2016-7-7 16:54

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.265014	42.40	11.9	51.3	8.9	AV	N	GND
0.798017	35.90	11.9	46	10.1	AV	N	GND
15.861456	45.50	12.0	50	4.5	AV	N	GND

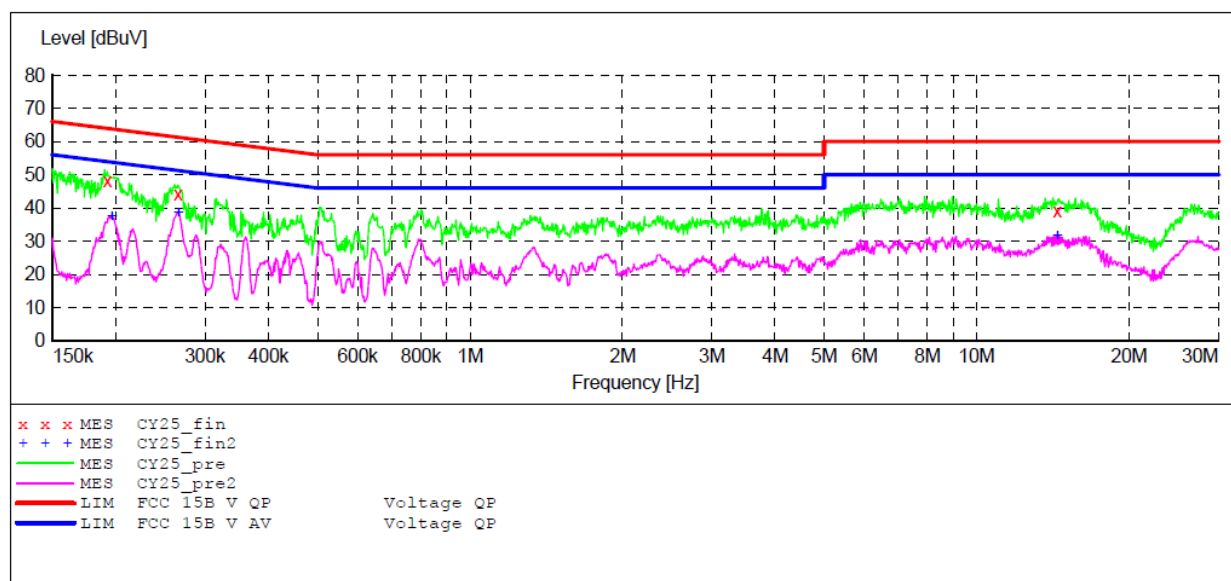
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SPEAKER M/N:TQ-LT1203
 Manufacturer: TQL TRADING INC
 Operating Condition: MIC IN
 Test Site: 2#Shielding Room
 Operator: Star
 Test Specification: L 220V/60Hz
 Comment: Report No.:ATE20161343
 Start of Test: 2016-7-7 / 16:59:58

SCAN TABLE: "V 150K-30MHz fin"

Short Description: SUB STD VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 0.4 % QuasiPeak 1.0 s 9 kHz LISN (ESH3-Z5)
 Average



MEASUREMENT RESULT: "CY25_fin"

2016-7-7 17:02

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.192340	48.10	11.9	63.9	15.8	QP	L1	GND
0.265014	44.00	11.9	61.3	17.3	QP	L1	GND
14.411633	39.00	12.0	60	21.0	QP	L1	GND

MEASUREMENT RESULT: "CY25_fin2"

2016-7-7 17:02

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.196415	37.60	11.9	53.8	16.2	AV	L1	GND
0.265809	38.60	11.9	51.2	12.6	AV	L1	GND
14.411633	31.70	12.0	50	18.3	AV	L1	GND

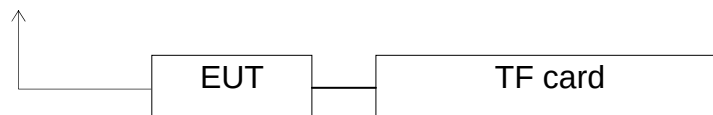
5. RADIATED EMISSION MEASUREMENT

5.1. Block Diagram of Test Setup

5.1.1. Block diagram of connection between the EUT and simulators

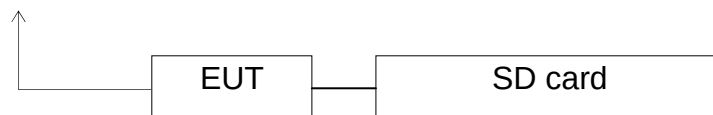
Test mode 1: TF card PLAYING

AC or DC Mains



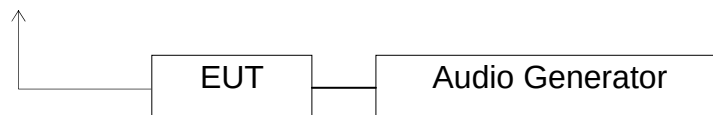
Test mode 2: SD card PLAYING

AC or DC Mains



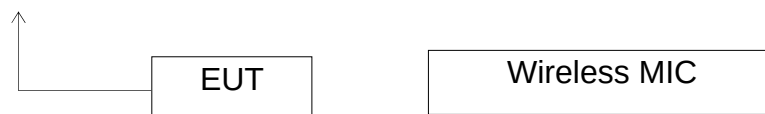
Test mode 3: AUX IN

AC or DC Mains



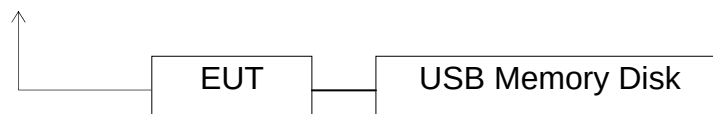
Test mode 4: 186.5MHz RX

AC or DC Mains



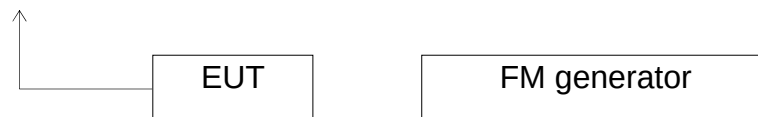
Test mode 5: USB PLAYING

AC or DC Mains



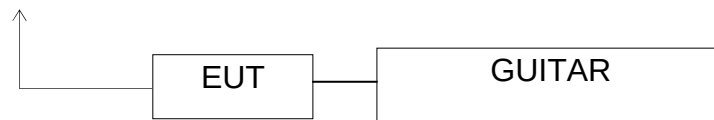
Test mode 6: FM

AC or DC Mains



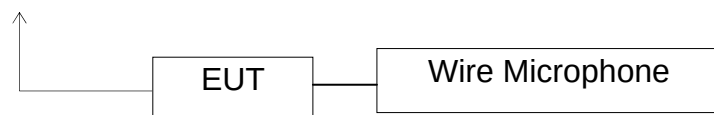
Test mode 7: GUITAR IN

AC or DC Mains



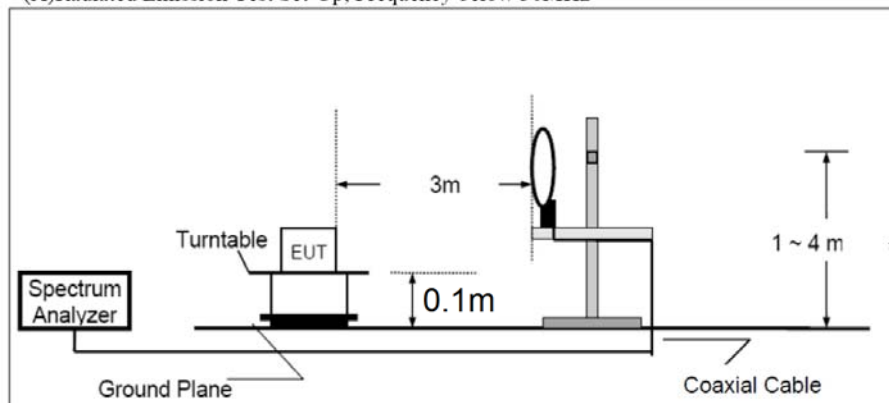
Test mode 8: MIC IN

AC or DC Mains

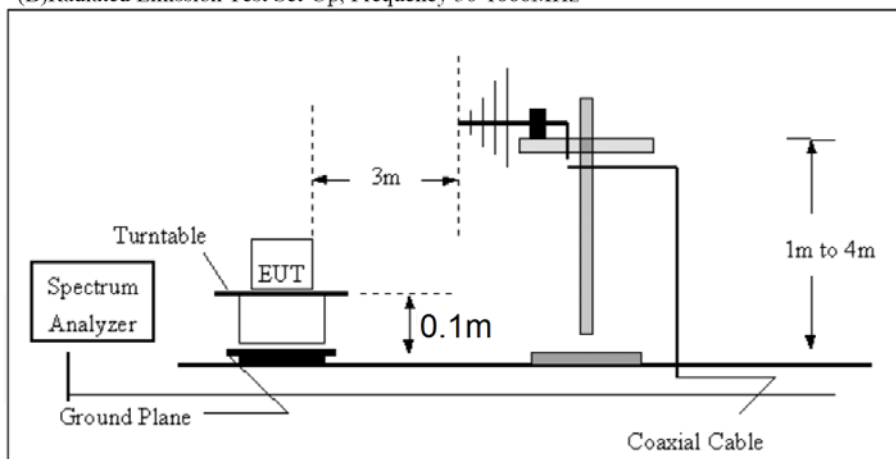


5.1.2. Block diagram of test setup (In chamber)

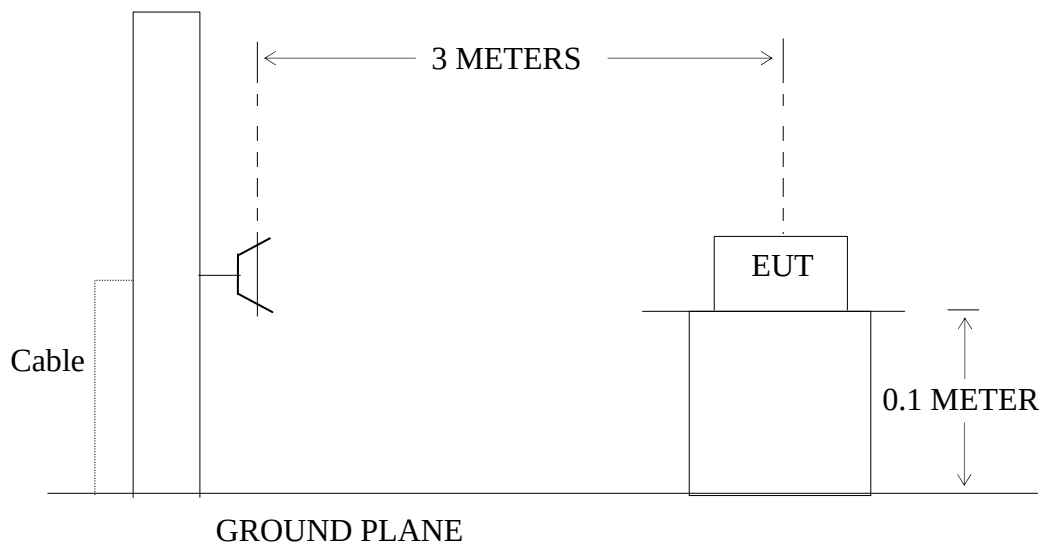
(A) Radiated Emission Test Set-Up, Frequency below 30MHz



(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	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V/m})$
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 $\text{dB}(\mu\text{V}) = 20 \log$ 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-LT1203

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 2000MHz 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 radio RX test mode, and recorded the worst case data(88.1MHz) in the report.

3. The EUT highest operating frequency provided by Manufacturer is 186.5MHz, the radiated emission measurement shall be made up to 2 GHz. The frequency range from 30MHz to 2000MHz 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



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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber

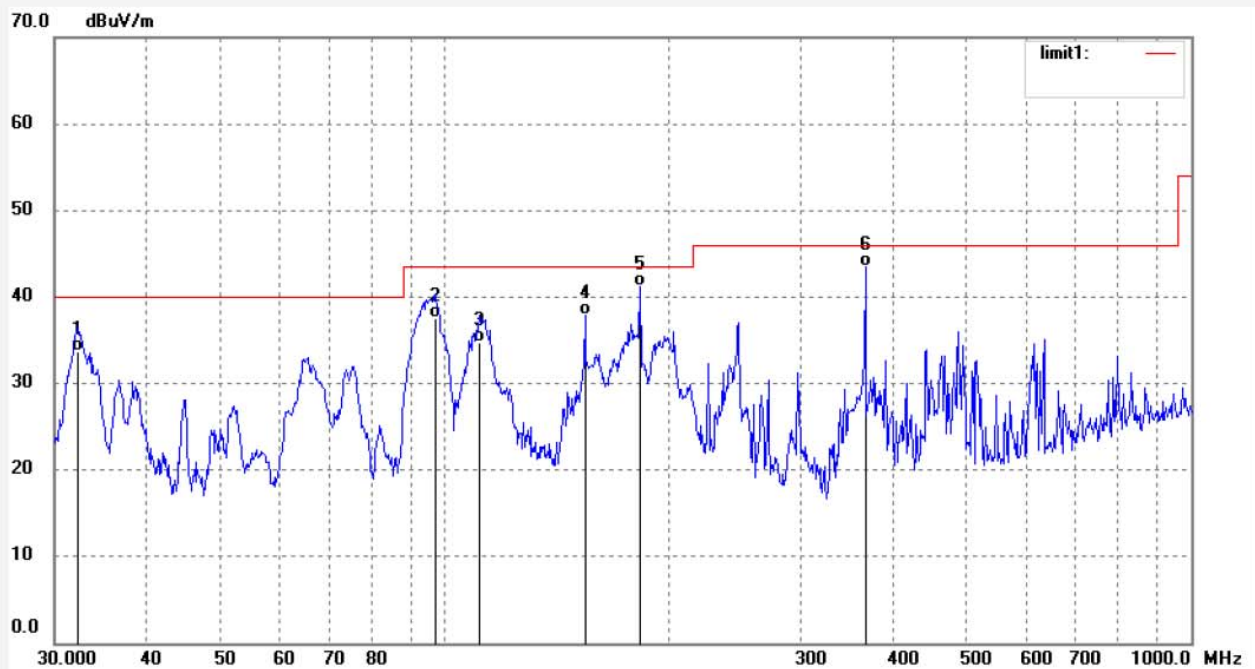
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: STAR2016 #1482
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: SPEAKER
Mode: TF card Play
Model: TQ-LT1203
Manufacturer: TQL TRADING INC

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 16/07/09/
Time: 9/43/53
Engineer Signature: star
Distance: 3m

Note: Report No.:ATE20161343



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	32.2971	50.74	-17.13	33.61	40.00	-6.39	QP			
2	97.0023	59.00	-21.55	37.45	43.50	-6.05	QP			
3	111.2483	55.88	-21.10	34.78	43.50	-8.72	QP			
4	154.2427	59.92	-21.95	37.97	43.50	-5.53	QP			
5	182.5784	61.24	-20.09	41.15	43.50	-2.35	QP			
6	366.0865	57.70	-14.25	43.45	46.00	-2.55	QP			



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Science & Industry Park,Nanshan Shenzhen,P.R.China

Report No.: ATE20161343

Page 48 of 94

Site: 1# Chamber

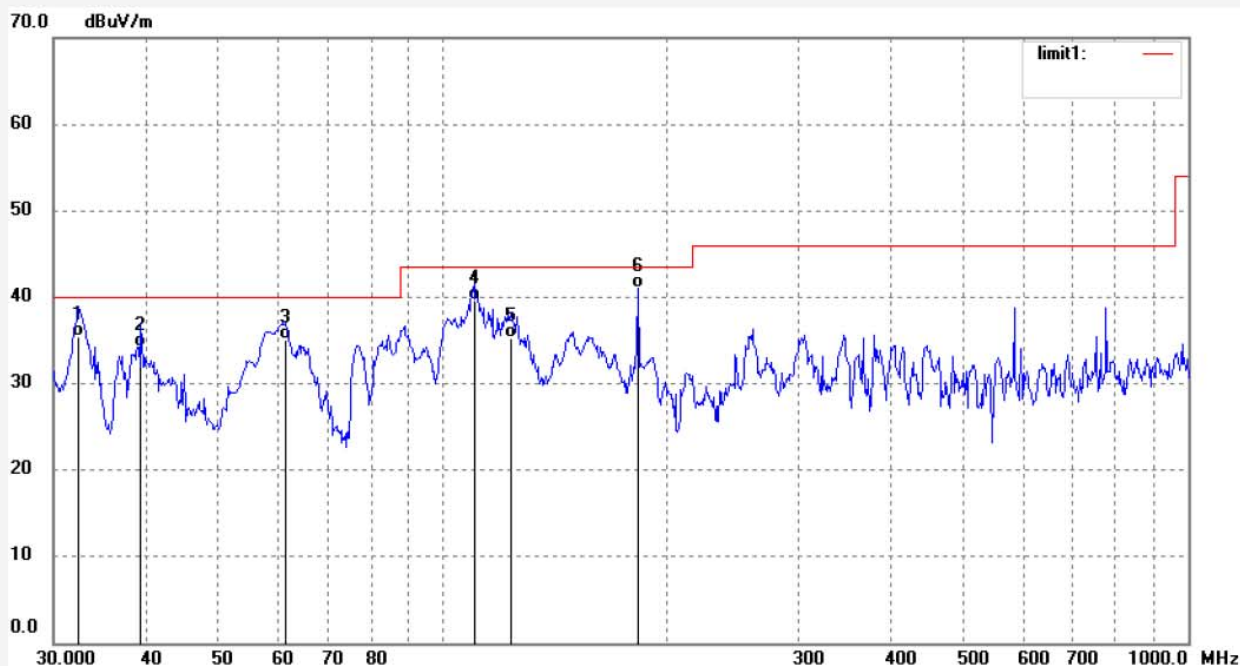
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: STAR2016 #1481
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: SPEAKER
Mode: TF card Play
Model: TQ-LT1203
Manufacturer: TQL TRADING INC

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 16/07/09/
Time: 9/40/42
Engineer Signature: star
Distance: 3m

Note: Report No.:ATE20161343



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	32.4107	52.64	-17.14	35.50	40.00	-4.50	QP			
2	39.3203	53.11	-18.88	34.23	40.00	-5.77	QP			
3	61.4343	57.68	-22.62	35.06	40.00	-4.94	QP			
4	110.0818	60.77	-21.06	39.71	43.50	-3.79	QP			
5	123.1813	56.76	-21.46	35.30	43.50	-8.20	QP			
6	182.5784	61.14	-20.09	41.05	43.50	-2.45	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: 1# Chamber

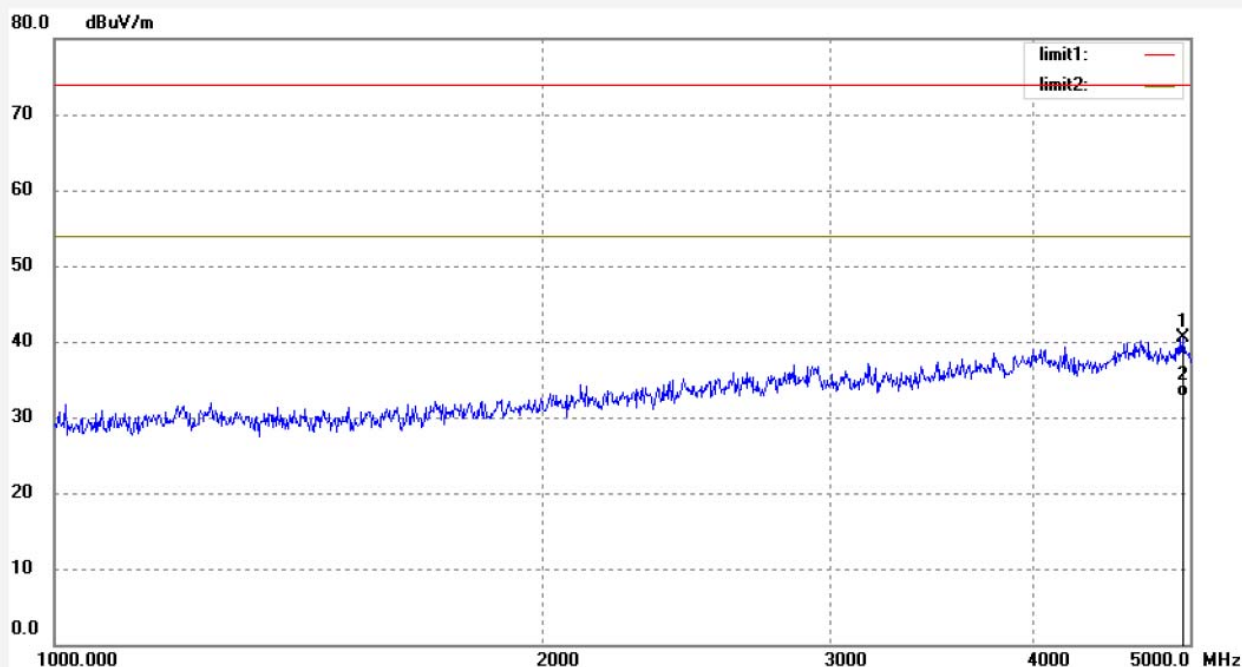
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: star2016 #1491
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: SPEAKER
Mode: TF card Play
Model: TQ-LT1203
Manufacturer: TQL TRADING INC

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 16/07/09/
Time: 10/27/50
Engineer Signature: star
Distance: 3m

Note: Report No.:ATE20161343



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4951.661	41.62	-1.05	40.57	74.00	-33.43	peak			
2	4951.661	33.79	-1.05	32.74	54.00	-21.26	AVG			



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Science & Industry Park,Nanshan Shenzhen,P.R.China

Report No.: ATE20161343

Page 50 of 94

Site: 1# Chamber

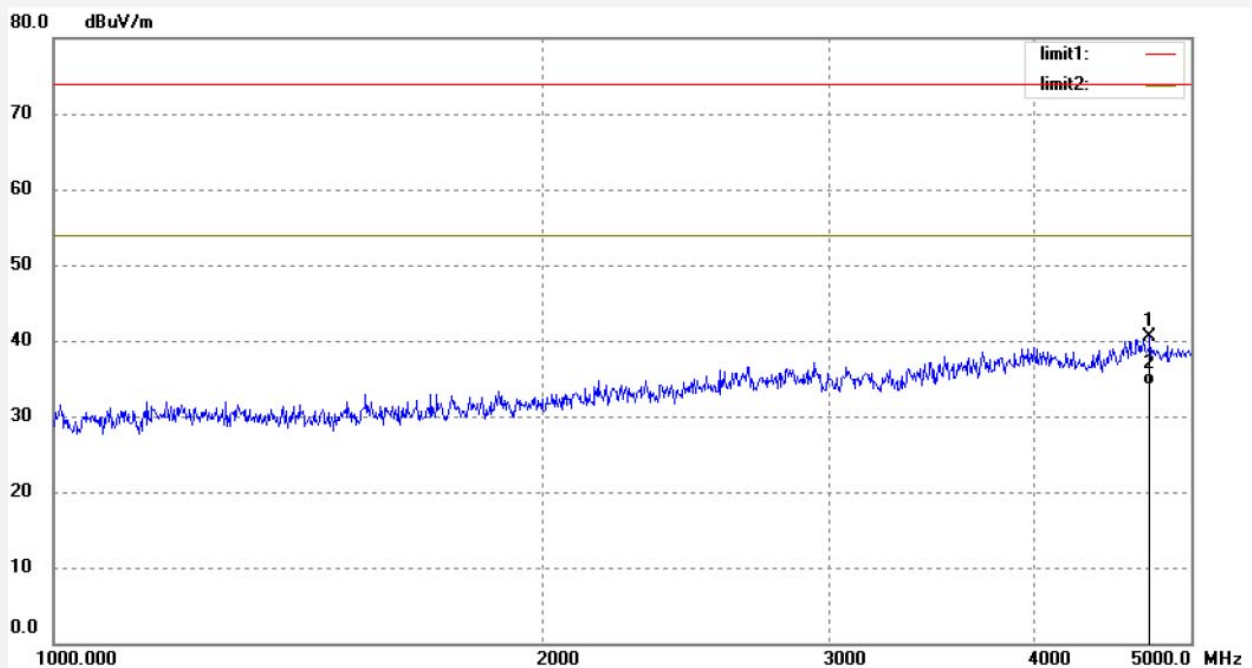
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: star2016 #1492
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: SPEAKER
Mode: TF card Play
Model: TQ-LT1203
Manufacturer: TQL TRADING INC

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 16/07/09/
Time: 10/31/38
Engineer Signature: star
Distance: 3m

Note: Report No.:ATE20161343



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4716.884	42.31	-1.83	40.48	74.00	-33.52	peak			
2	4716.884	36.00	-1.83	34.17	54.00	-19.83	AVG			

Test mode 2

Below 1GHz



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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber

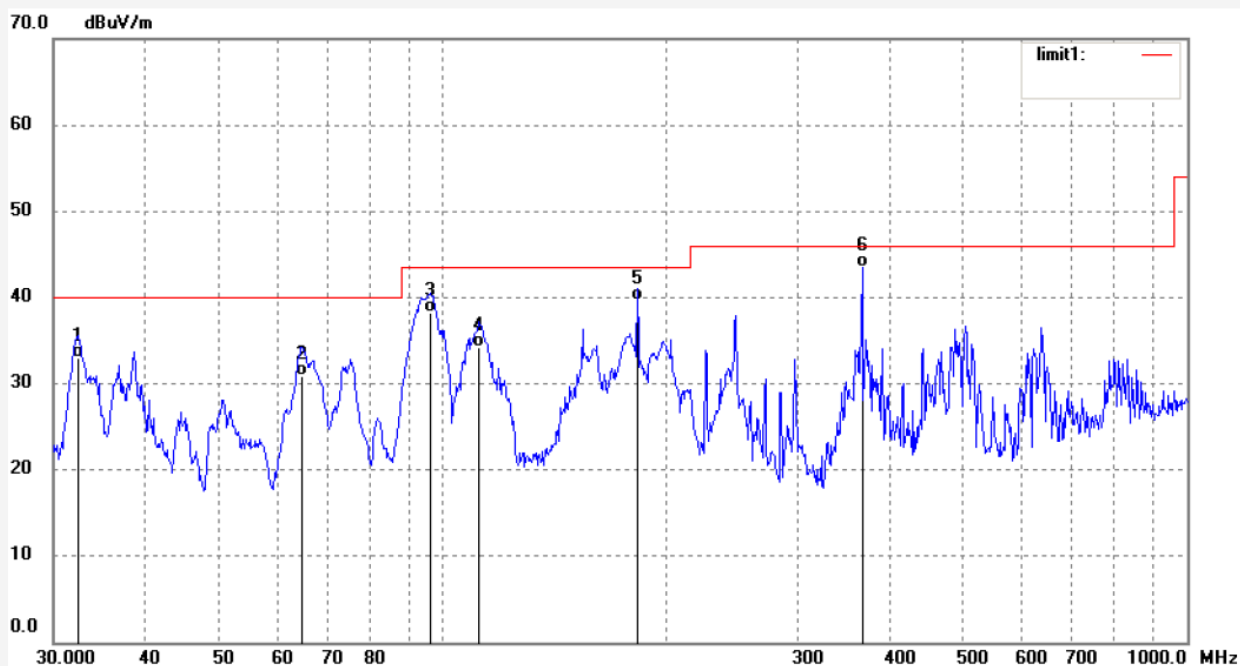
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: STAR2016 #1480
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: SPEAKER
Mode: SD card Play
Model: TQ-LT1203
Manufacturer: TQL TRADING INC

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 16/07/09/
Time: 9/36/22
Engineer Signature: star
Distance: 3m

Note: Report No.:ATE20161343



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	32.4107	50.11	-17.14	32.97	40.00	-7.03	QP			
2	64.7590	53.64	-22.68	30.96	40.00	-9.04	QP			
3	96.3230	59.70	-21.52	38.18	43.50	-5.32	QP			
4	112.0327	55.29	-21.12	34.17	43.50	-9.33	QP			
5	182.5785	59.67	-20.09	39.58	43.50	-3.92	QP			
6	366.0866	57.78	-14.25	43.53	46.00	-2.47	QP			



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Science & Industry Park,Nanshan Shenzhen,P.R.China

Report No.: ATE20161343

Page 52 of 94

Site: 1# Chamber

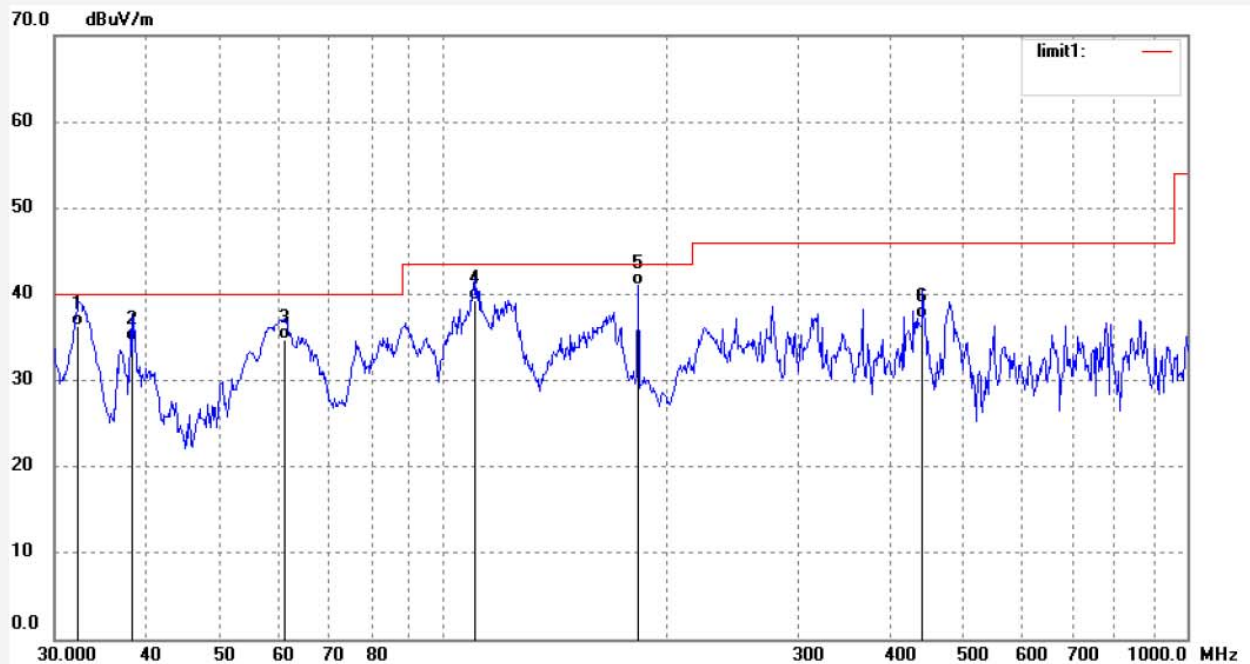
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: STAR2016 #1479
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: SPEAKER
Mode: SD card Play
Model: TQ-LT1203
Manufacturer: TQL TRADING INC

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 16/07/09/
Time: 9/31/02
Engineer Signature: star
Distance: 3m

Note: Report No.:ATE20161343



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	32.2972	53.46	-17.13	36.33	40.00	-3.67	QP			
2	38.0964	53.00	-18.50	34.50	40.00	-5.50	QP			
3	61.2188	57.31	-22.62	34.69	40.00	-5.31	QP			
4	110.4693	60.37	-21.08	39.29	43.50	-4.21	QP			
5	182.5785	61.11	-20.09	41.02	43.50	-2.48	QP			
6	441.0199	50.47	-13.24	37.23	46.00	-8.77	QP			

Above 1GHz



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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber

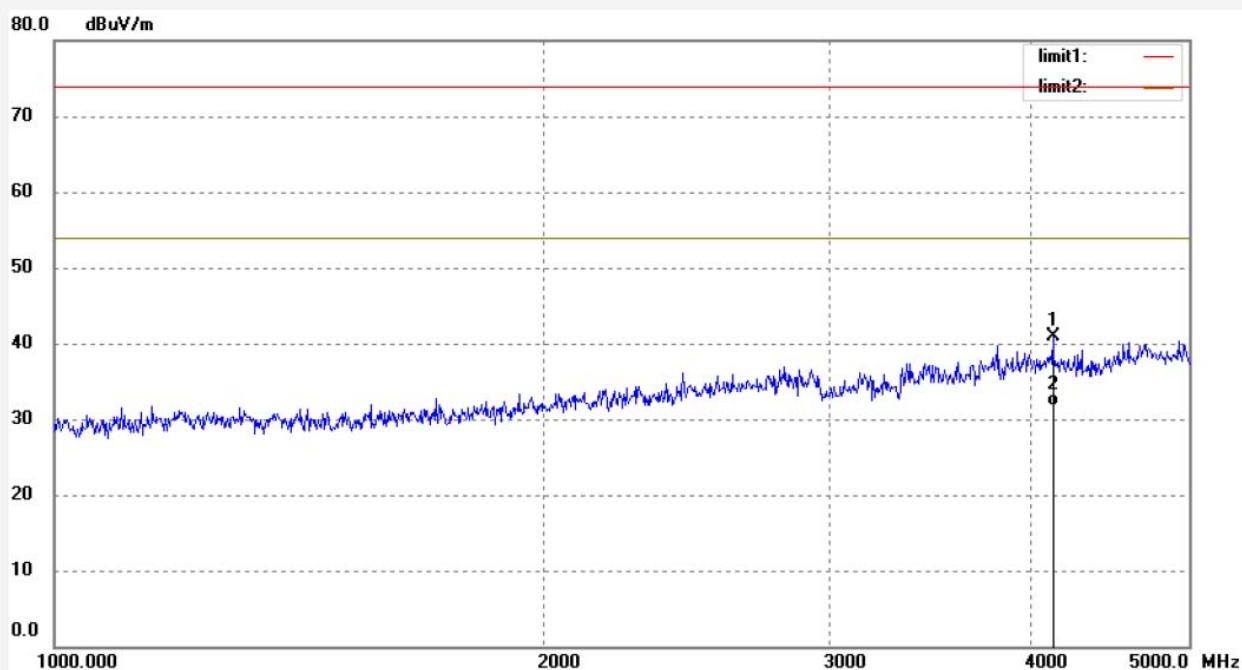
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: star2016 #1490
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: SPEAKER
Mode: SD card Play
Model: TQ-LT1203
Manufacturer: TQL TRADING INC

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 16/07/09/
Time: 10/22/18
Engineer Signature: star
Distance: 3m

Note: Report No.:ATE20161343



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4123.733	43.43	-2.50	40.93	74.00	-33.07	peak			
2	4123.733	34.16	-2.50	31.66	54.00	-22.34	AVG			



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Science & Industry Park,Nanshan Shenzhen,P.R.China

Report No.: ATE20161343

Page 54 of 94

Site: 1# Chamber

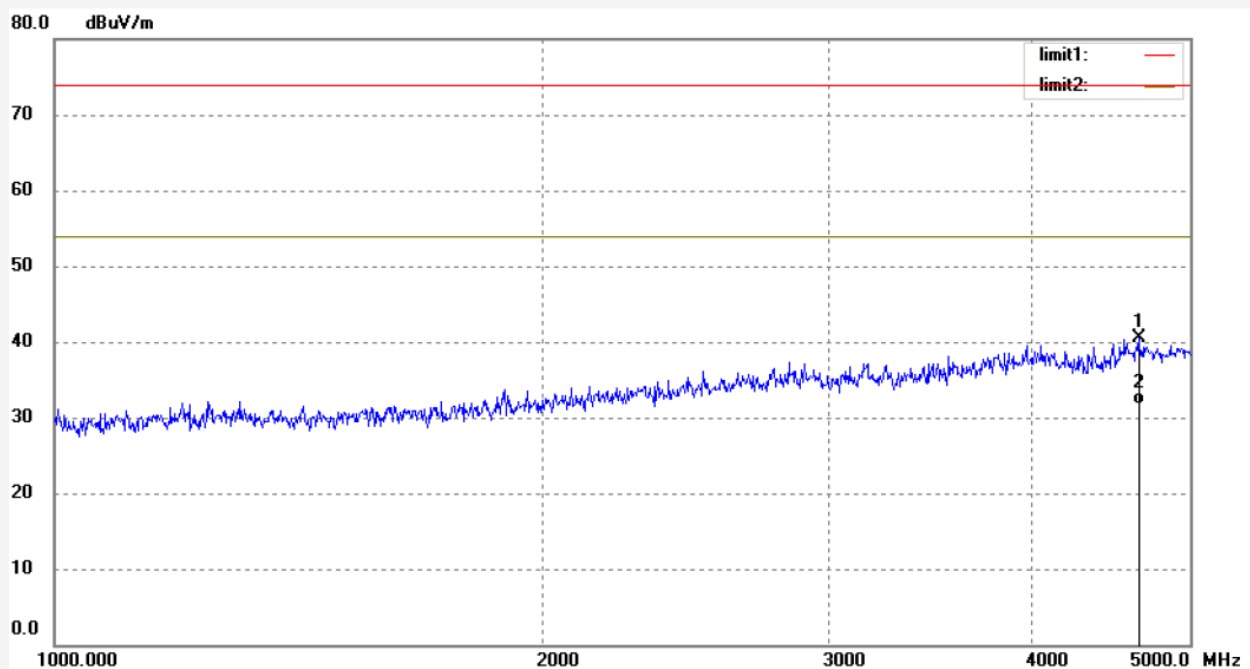
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: star2016 #1489
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: SPEAKER
Mode: SD card Play
Model: TQ-LT1203
Manufacturer: TQL TRADING INC

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 16/07/09/
Time: 10/18/41
Engineer Signature: star
Distance: 3m

Note: Report No.:ATE20161343



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4648.646	42.63	-2.04	40.59	74.00	-33.41	peak			
2	4648.646	33.67	-2.04	31.63	54.00	-22.37	AVG			

Test mode 3

Below 1GHz



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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber

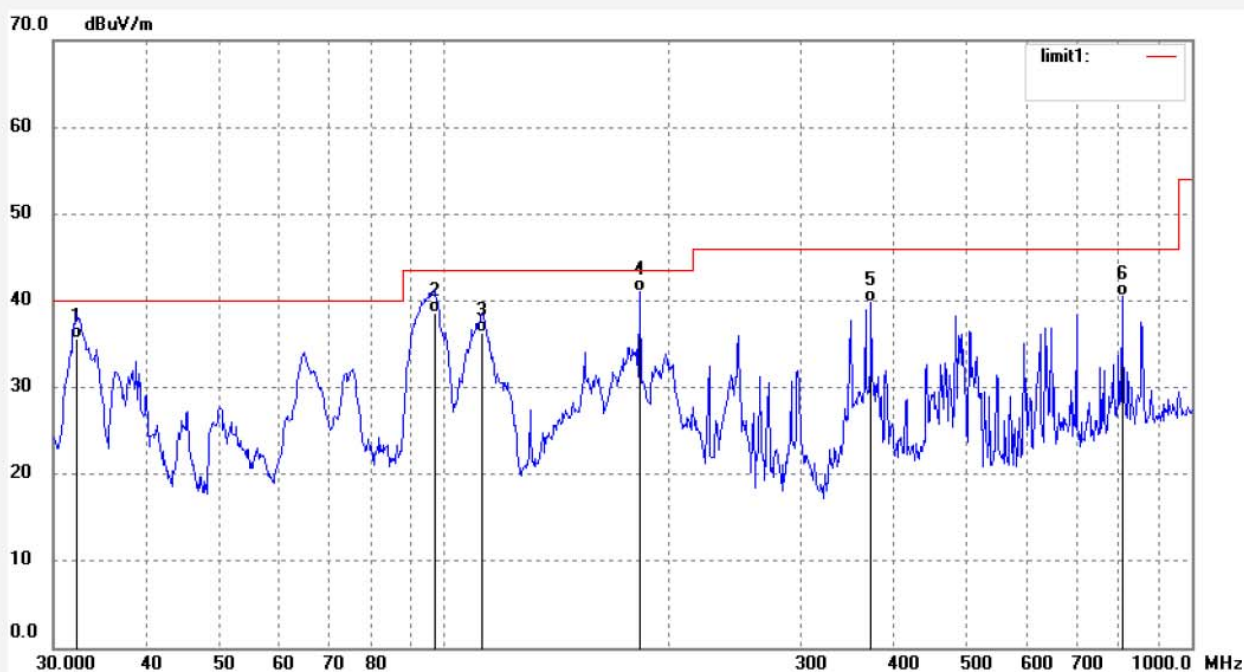
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: STAR2016 #1486
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: SPEAKER
Mode: AUX IN
Model: TQ-LT1203
Manufacturer: TQL TRADING INC

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 16/07/09/
Time: 9/59/12
Engineer Signature: star
Distance: 3m

Note: Report No.:ATE20161343



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	32.2972	52.67	-17.13	35.54	40.00	-4.46	QP			
2	97.0023	60.11	-21.55	38.56	43.50	-4.94	QP			
3	112.4270	57.46	-21.13	36.33	43.50	-7.17	QP			
4	182.5784	61.13	-20.09	41.04	43.50	-2.46	QP			
5	372.5747	53.97	-14.20	39.77	46.00	-6.23	QP			
6	807.0828	46.25	-5.77	40.48	46.00	-5.52	QP			