

Page 51 of 97

### ACCURATE TECHNOLOGY CO., LTD

#### FCC Class B 3M Radiated

EUT: ACTIVE SPEAKER SYSTEM M/N:A100

Manufacturer: Dongguan Platinum Audio Systems Co., Ltd.

Operating Condition: TX 2480MHz Test Site: 2# Chamber

Operator: WADE

Test Specification: AC 120V/60Hz

Comment: Y

Start of Test: 2018-5-10 /

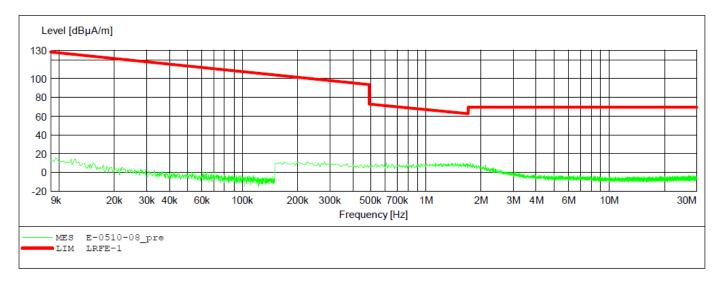
#### SCAN TABLE: "LFRE Fin"

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 1516M 150.0 kHz 30.0 MHz 5.0 kHz QuasiPeak 1.0 s 9 kHz 1516M





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### ACCURATE TECHNOLOGY CO., LTD

#### FCC Class B 3M Radiated

EUT: ACTIVE SPEAKER SYSTEM M/N:A100

Manufacturer: Dongguan Platinum Audio Systems Co., Ltd.

Operating Condition: TX 2480MHz Test Site: 2# Chamber

Operator: WADE

Test Specification: AC 120V/60Hz

Comment: Z

Start of Test: 2018-5-10 /

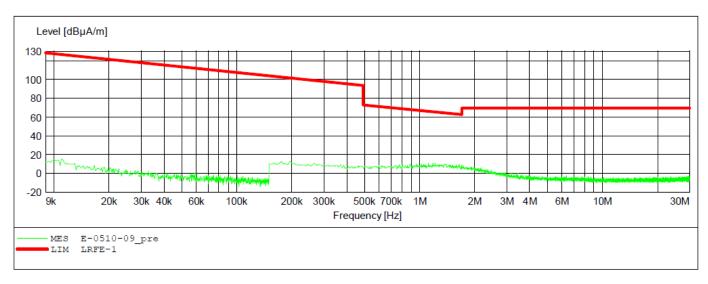
### SCAN TABLE: "LFRE Fin"

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 1516M 150.0 kHz 30.0 MHz 5.0 kHz QuasiPeak 1.0 s 9 kHz 1516M





Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

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#### 30MHz-1000MHz test data



### ACCURATE TECHNOLOGY CO., LTD.

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

> Polarization: Horizontal

Date: 18/05/07/

Time:

Engineer Signature: WADE

Power Source: AC 120V/60Hz

Distance: 3m

Job No.: LGW2018 #971 Standard: FCC Class B 3M Radiated

Test item: Radiation Test

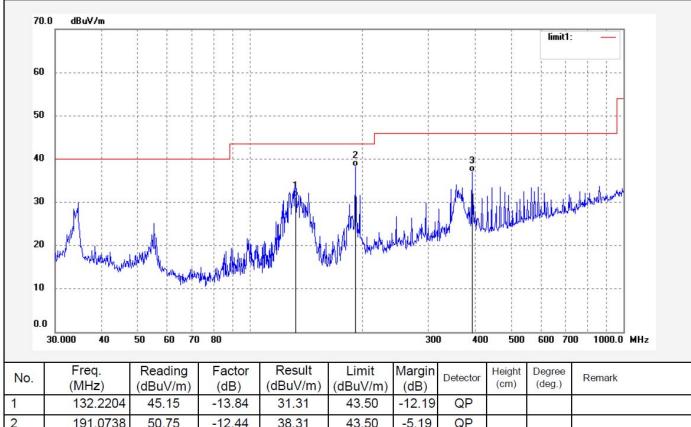
Temp.( C)/Hum.(%) 23 C / 48 %

EUT: **ACTIVE SPEAKER SYSTEM** 

TX 2402MHz Mode:

Model: A100

Manufacturer: Dongguan Platinum Audio Systems Co., Ltd.



	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	(dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
3	1	132.2204	45.15	-13.84	31.31	43.50	-12.19	QP		a 20	
	2	191.0738	50.75	-12.44	38.31	43.50	-5.19	QP			
	3	393.4723	43.79	-6.70	37.09	46.00	-8.91	QP			





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ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 2# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: LGW2018 #972

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: ACTIVE SPEAKER SYSTEM

Mode: TX 2402MHz

Model: A100

Manufacturer: Dongguan Platinum Audio Systems Co., Ltd.

Note:

Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 18/05/07/

Time:

Engineer Signature: WADE

Distance: 3m

70.	0 dBuV/m						1		limit1	: —	
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20 10 0.0	30.000 40	50 60 70	0 80		a shad bhandhar	30	0 400	500	600 7	00 1000.0 I	MHz
20 10 0.0		Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	30 Margin (dB)		500 Height (cm)	Degree (deg.)	00 1000.0 I	MHz
30 20 10 0.0	30.000 40 Freq.	Reading	Factor		ACCOUNT OF THE PARTY OF THE PAR	Margin		Height	Degree		MHz





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

Report No.: ATE20180937

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Job No.: LGW2018 #974

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: ACTIVE SPEAKER SYSTEM

Mode: TX 2441MHz

Model: A100

Manufacturer: Dongguan Platinum Audio Systems Co., Ltd.

Note:

Polarization: Horizontal

Power Source: AC 120V/60Hz

Date: 18/05/07/

Time:

Engineer Signature: WADE

Distance: 3m

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D. Reading Factor Result Limit Margin Detector (cm) (dBuV/m) (dBuV/m) (dBuV/m) (dBuV/m) (dBuV/m) (dBuV/m) (dBuV/m) (dBuV/m) (dBuV/m)	000.0 MF

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-7.47

QP

QP

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45.23

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-6.70

38.14

38.53





A100

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

Report No.: ATE20180937

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Job No.: LGW2018 #973 Polarization: Vertical

Standard: FCC Class B 3M Radiated Power Source: AC 120V/60Hz

Test item: Radiation Test Date: 18/05/07/

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

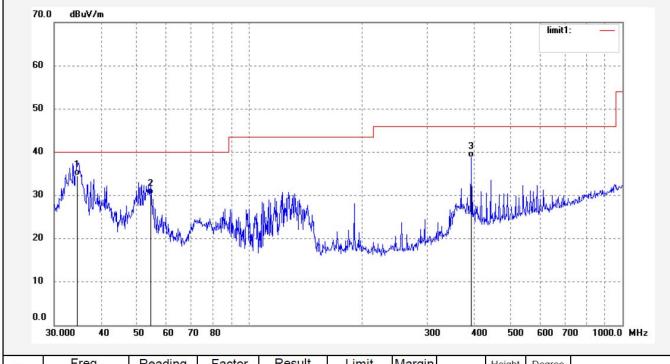
EUT: ACTIVE SPEAKER SYSTEM Engineer Signature: WADE

Mode: TX 2441MHz Distance: 3m

Manufacturer: Dongguan Platinum Audio Systems Co., Ltd.

Note:

Model:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	34.5172	44.84	-10.27	34.57	40.00	-5.43	QP			
2	54.4515	43.09	-12.91	30.18	40.00	-9.82	QP			
3	393.4723	45.45	-6.70	38.75	46.00	-7.25	QP			





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## ACCURATE TECHNOLOGY CO., LTD.

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

Time:

Site: 2# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: LGW2018 #975 Polarization: Horizontal

Standard: FCC Class B 3M Radiated Power Source: AC 120V/60Hz

Test item: Radiation Test Date: 18/05/07/

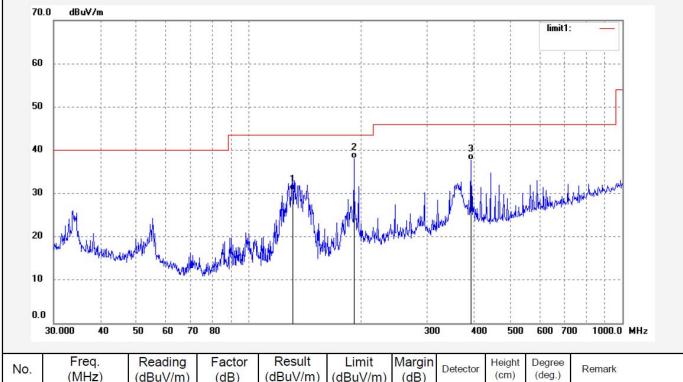
EUT: ACTIVE SPEAKER SYSTEM Engineer Signature: WADE

Mode: TX 2480MHz Distance: 3m

Model: A100

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

Manufacturer: Dongguan Platinum Audio Systems Co., Ltd.



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	131.2965	44.54	-13.81	30.73	43.50	-12.77	QP			
2	191.0738	50.45	-12.44	38.01	43.50	-5.49	QP			
3	393.4723	44.43	-6.70	37.73	46.00	-8.27	QP			



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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396



ACCURATE TECHNOLOGY CO., LTD.

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

Job No.: LGW2018 #976 Polarization: Vertical

Standard: FCC Class B 3M Radiated Power Source: AC 120V/60Hz

Test item: Radiation Test Date: 18/05/07/

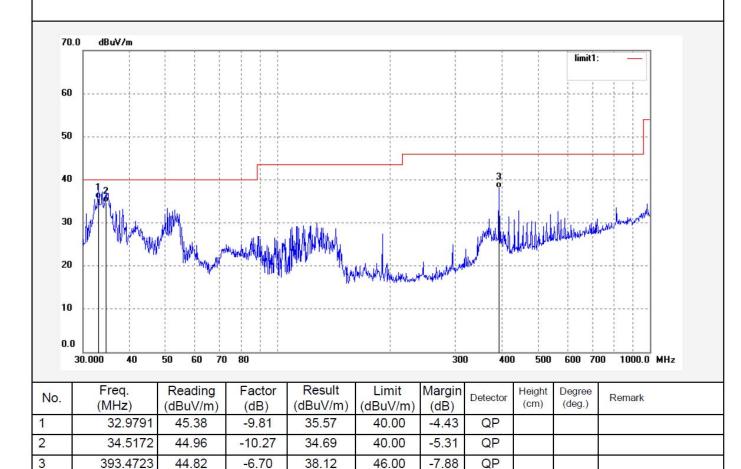
Temp.( C)/Hum.(%) 23 C / 48 % Time:

EUT: ACTIVE SPEAKER SYSTEM Engineer Signature: WADE

Mode: TX 2480MHz Distance: 3m

Model: A100

Manufacturer: Dongguan Platinum Audio Systems Co., Ltd.





Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

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#### 1GHz-18GHz test data



### ACCURATE TECHNOLOGY CO., LTD.

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

Job No.: LGW2018 #939 Polarization: Horizontal

Standard: FCC Class B 3M Radiated Power Source: AC 120V/60Hz

Test item: Radiation Test Date: 18/05/07/

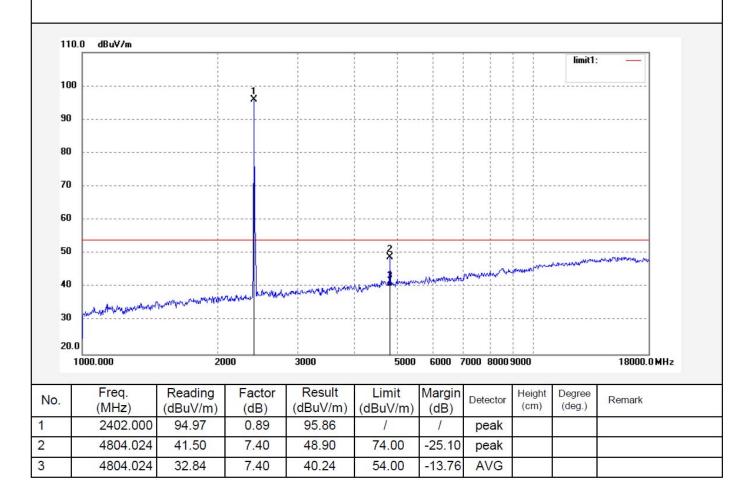
Temp.( C)/Hum.(%) 23 C / 48 % Time:

EUT: ACTIVE SPEAKER SYSTEM Engineer Signature: WADE

Mode: TX 2402MHz Distance: 3m

Model: A100

Manufacturer: Dongguan Platinum Audio Systems Co., Ltd.







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ACCURATE TECHNOLOGY CO., LTD.

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

Site: 2# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: LGW2018 #940

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: ACTIVE SPEAKER SYSTEM

Mode: TX 2402MHz

Model: A100

Manufacturer: Dongguan Platinum Audio Systems Co., Ltd.

Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 18/05/07/

Time:

Engineer Signature: WADE

Distance: 3m

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T	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
- 1	2402.000	92.76	0.89	93.65	1	/	peak			
†	2402.000					-24.50	peak			





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

Site: 2# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Report No.: ATE20180937

Job No.: LGW2018 #943

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: ACTIVE SPEAKER SYSTEM

Mode: TX 2441MHz

Model: A100

Manufacturer: Dongguan Platinum Audio Systems Co., Ltd.

Note:

Polarization: Horizontal

Power Source: AC 120V/60Hz

Date: 18/05/07/

Time:

Engineer Signature: WADE

Distance: 3m

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20.0	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	3000 Result (dBuV/m)	Limit (dBuV/m)		Detector		Degree (deg.)	18000.0 MHz Remark
20.0	Freq. (MHz) 2441.000	Reading (dBuV/m) 92.88	Factor (dB) 1.06	3000 Result (dBuV/m) 93.94	5000 Limit (dBuV/m)	Margin (dB)	Detector peak	Height		19 minut of 60 february Cold Selfac 27
20.0	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	3000 Result (dBuV/m)	Limit (dBuV/m)	Margin	Detector peak	Height		19 minut of 60 february Cold Selfac 27





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## ACCURATE TECHNOLOGY CO., LTD.

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

Site: 2# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: LGW2018 #944

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

ACTIVE SPEAKER SYSTEM EUT:

Mode: TX 2441MHz

Model: A100

Manufacturer: Dongguan Platinum Audio Systems Co., Ltd.

Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 18/05/07/

Time:

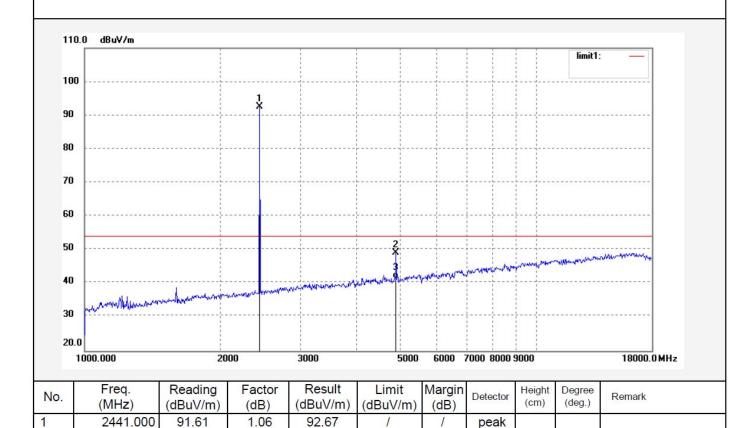
Engineer Signature: WADE

Distance: 3m

Note:

2

3



74.00

54.00

-24.84

-12.48

peak

AVG

4882.027

4882.027

41.05

33.41

8.11

8.11

49.16

41.52





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

Report No.: ATE20180937

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Job No.: LGW2018 #946

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: ACTIVE SPEAKER SYSTEM

Mode: TX 2480MHz

Model: A100

Manufacturer: Dongguan Platinum Audio Systems Co., Ltd.

Note:

Polarization: Horizontal

Power Source: AC 120V/60Hz

Date: 18/05/07/

Time:

Engineer Signature: WADE

Distance: 3m

110.0 dBuV/m limit1: 100 90 80 70 60 50 40 30 1000.000 2000 3000 7000 8000 9000 18000.0 MHz Freq. Result Reading Factor Limit Margin Height Degree No. Detector Remark (cm) (deg.) (MHz) (dBuV/m) (dB) (dBuV/m) (dBuV/m) (dB) 2480.000 90.56 1.10 91.66 peak 2 4960.028 40.24 8.60 48.84 74.00 -25.16 peak 3 4960.028 31.68 8.60 40.28 54.00 -13.72**AVG** 





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

Site: 2# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: LGW2018 #945

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: ACTIVE SPEAKER SYSTEM

Mode: TX 2480MHz

Model: A100

Manufacturer: Dongguan Platinum Audio Systems Co., Ltd.

Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 18/05/07/

Time:

Engineer Signature: WADE

Distance: 3m

	dBuV/m									100000000000000000000000000000000000000	
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100	00.000	20	00		3000	5000	6000 7	7000 8000	9000		18000.0 MHz
Τ	Freq. (MHz)	Reading (dBuV/m)	Factor (dB		Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
	2480.000	91.16	1.1		92.26	1	1	peak			
				^	10 E1	74.00	-25.49	peak			
	4960.029	39.91	8.6	U	48.51	74.00	-23.43	peak			



Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

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#### 18GHz-26.5GHz test data



## ACCURATE TECHNOLOGY CO., LTD.

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

Job No.: LGW2018 #950 Polarization: Horizontal

Standard: FCC Class B 3M Radiated Power Source: AC 120V/60Hz

Test item: Radiation Test Date: 18/05/07/

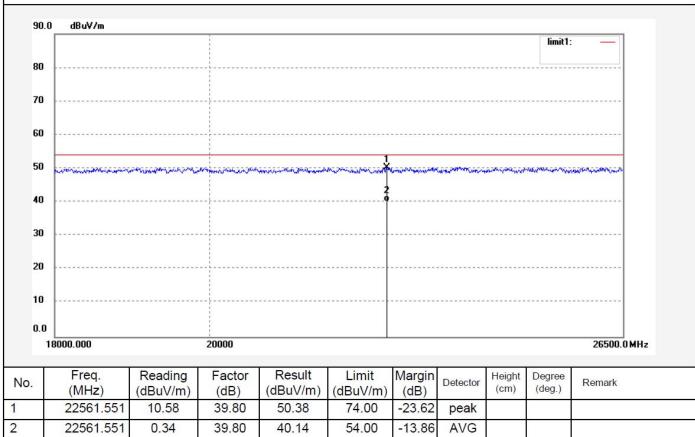
Temp.( C)/Hum.(%) 23 C / 48 % Time:

EUT: **ACTIVE SPEAKER SYSTEM** Engineer Signature: WADE

Mode: TX 2402MHz Distance: 3m

Model: A100

Manufacturer: Dongguan Platinum Audio Systems Co., Ltd.



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	22561.551	10.58	39.80	50.38	74.00	-23.62	peak			
2	22561.551	0.34	39.80	40.14	54.00	-13.86	AVG			





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## ACCURATE TECHNOLOGY CO., LTD.

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

Site: 2# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

26500.0 MHz

Job No.: LGW2018 #949

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

**ACTIVE SPEAKER SYSTEM** EUT:

Mode: TX 2402MHz

Model: A100

Manufacturer: Dongguan Platinum Audio Systems Co., Ltd.

20000

Note:

10

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18000.000

Vertical Polarization:

Power Source: AC 120V/60Hz

Date: 18/05/07/

Time:

Engineer Signature: WADE

Distance: 3m

dBuV/m 90.0 limit1: 80 70 60 50 40 30 20

No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	23551.252	11.17	39.69	50.86	74.00	-23.14	peak			
2	23551.252	0.56	39.69	40.25	54.00	-13.75	AVG			





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## ACCURATE TECHNOLOGY CO., LTD.

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

Site: 2# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: LGW2018 #951

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: ACTIVE SPEAKER SYSTEM

Mode: TX 2441MHz

Model: A100

Manufacturer: Dongguan Platinum Audio Systems Co., Ltd.

Note:

Polarization: Horizontal Power Source: AC 120V/60Hz

Date: 18/05/07/

Time:

Engineer Signature: WADE

Distance: 3m

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	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
	21798.134	11.24	39.05	50.29	74.00	-23.71	peak			
+	21798.134	1.19	39.05	40.24	54.00	-13.76	AVG			





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ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 2# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: LGW2018 #952

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: ACTIVE SPEAKER SYSTEM

Mode: TX 2441MHz

Model: A100

Manufacturer: Dongguan Platinum Audio Systems Co., Ltd.

Note:

n,P.R.China Fax:+86-07

Polarization: Vertical

Power Source: AC 120V/60Hz

Polarization. Vertical

Date: 18/05/07/

Time:

Engineer Signature: WADE

Distance: 3m

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10 0.0	1										
0.0	18000.000		20000							26500.0 M	lHz
0.0	18000.000 Freq.	Reading (dBuV/m)	Factor	Result	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	<b>26500.0 M</b> Remark	lHz
0.0	18000.000	Reading (dBuV/m) 10.52	2	Result (dBuV/m) 49.82	Limit (dBuV/m) 74.00	Margin (dB) -24.18					lHz





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Horizontal

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Job No.: LGW2018 #954 Polarization:

Standard: FCC Class B 3M Radiated Power Source: AC 120V/60Hz

Test item: Radiation Test Date: 18/05/07/

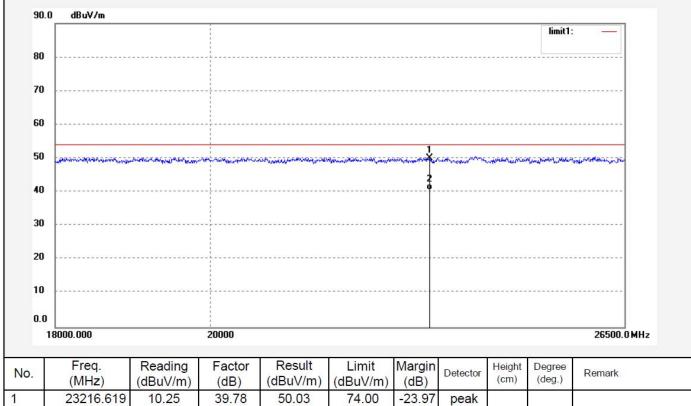
Temp.( C)/Hum.(%) 23 C / 48 % Time:

EUT: **ACTIVE SPEAKER SYSTEM** Engineer Signature: WADE

Mode: TX 2480MHz Distance: 3m

Model: A100

Manufacturer: Dongguan Platinum Audio Systems Co., Ltd.



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	23216.619	10.25	39.78	50.03	74.00	-23.97	peak			
2	23216.619	0.79	39.78	40.57	54.00	-13.43	AVG			





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Site: 2# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: LGW2018 #953

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: ACTIVE SPEAKER SYSTEM

Mode: TX 2480MHz

Model: A100

Manufacturer: Dongguan Platinum Audio Systems Co., Ltd.

Note:

Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 18/05/07/

Time:

Engineer Signature: WADE

Distance: 3m

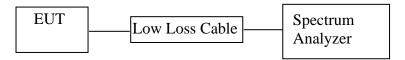
	0 dBuV/m		-						limit1:	
80										
70										
60										
50	M. SAMERANIA PARENCE AND ADDRESS OF THE PARENCE	الإيماري والمستجالة والمستحال والمستجارة	and the second	and the same of the same	MATERIAL PROPERTY.	Mark Street	and the state of t	tra santa da santa d	AND THE PARTY OF T	was a substitute of the substi
<b>4</b> 0										
30										
20										
10										
0.0										
•	18000.000		20000							26500.0 MHz
Т	Freq.	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
	(MHz)	(5000/111)								



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## 11.BAND EDGE COMPLIANCE TEST

### 11.1.Block Diagram of Test Setup



(EUT: ACTIVE SPEAKER SYSTEM)

### 11.2. The Requirement For Section 15.247(d)

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

## 11.3.EUT Configuration on Measurement

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

# 11.4. Operating Condition of EUT

- 11.4.1. Setup the EUT and simulator as shown as Section 11.1.
- 11.4.2. Turn on the power of all equipment.
- 11.4.3.Let the EUT work in TX (Hopping off, Hopping on) modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2480MHz TX frequency to transmit.

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11.5.Test Procedure

- 11.5.1.The transmitter output was connected to the spectrum analyzer via a low loss cable.
- 11.5.2.Set RBW of spectrum analyzer to 100 kHz and VBW to 300 kHz with convenient frequency span including 100 kHz bandwidth from band edge.
- 11.5.3. The band edges was measured and recorded.

### 11.6.Test Result

Non-hopping mode

Frequency	Result of Band Edge	Limit of Band Edge
(MHz)	(dBc)	(dBc)
	BDR mode	
2343.04	47.43	> 20dBc
2488.65	53.62	> 20dBc
	EDR mode	
2369.29	44.39	> 20dBc
2489.287	49.45	> 20dBc

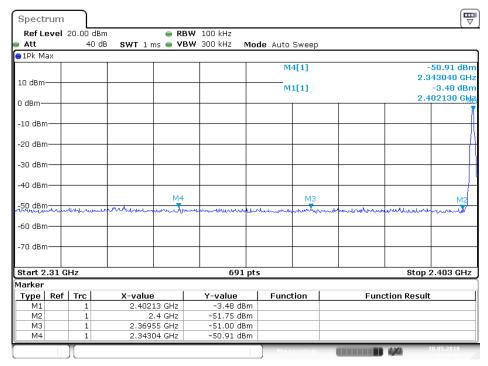
Hopping mode

Hopping mode		
Frequency	Result of Band Edge	Limit of Band Edge
(MHz)	(dBc)	(dBc)
	BDR mode	
2352.14	47.36	> 20dBc
2486.936	51.93	> 20dBc
	EDR mode	
2381.70	43.17	> 20dBc
2487.701	48.21	> 20dBc

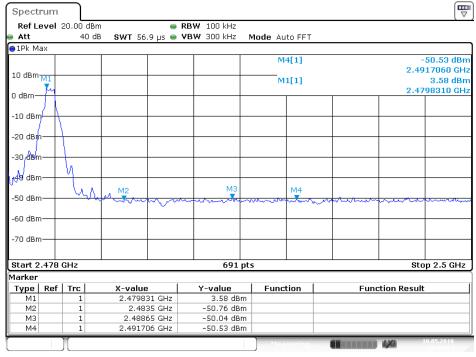


#### Non-hopping mode

#### BDR mode



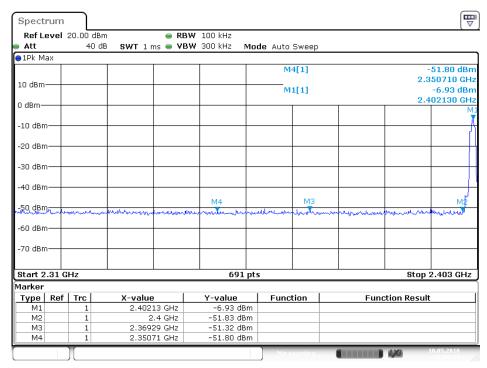
Date: 10.MAY.2018 16:58:08



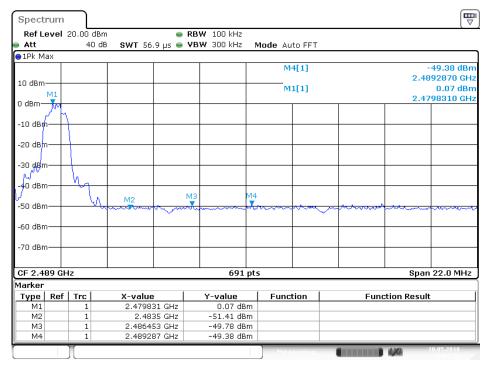
Date: 10.MAY.2018 17:00:23



EDR mode



Date: 10.MAY.2018 17:03:38

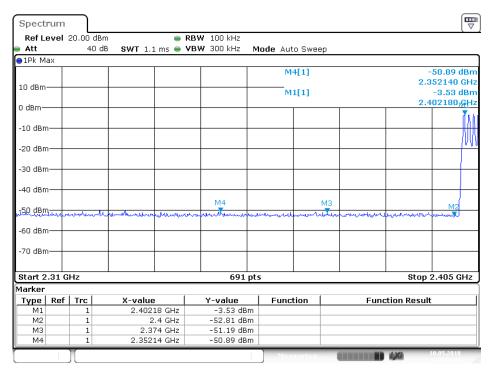


Date: 10.MAY.2018 17:02:22

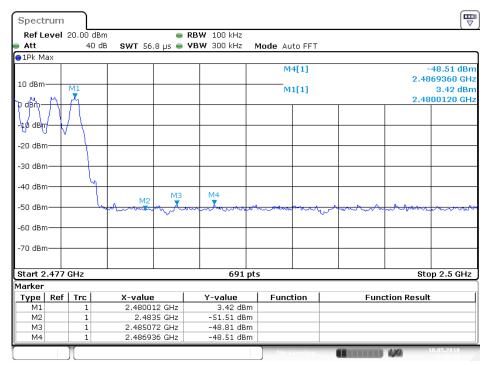


### hopping mode

#### BDR mode



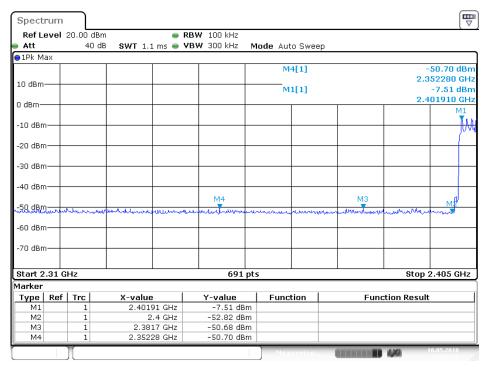
Date: 10.MAY.2018 17:10:42



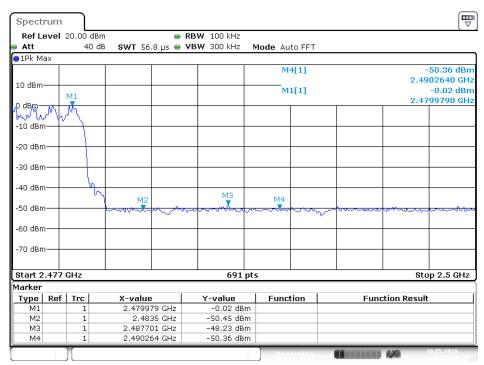
Date: 10.MAY.2018 17:09:12



#### EDR mode



Date: 10.MAY.2018 17:05:48



Date: 10.MAY.2018 17:07:42



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### Radiated Band Edge Result

#### Note:

- 1. Emissions attenuated more than 20 dB below the permissible value are not reported.
- 2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:
  - Result = Reading + Corrected Factor
- 3. Display the measurement of peak values.

#### Test Procedure:

The EUT and its simulators are placed on a turntable, which is 1.5 meter high above ground(Above 1GHz). 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 bi-log 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 EUT location must be manipulated according to ANSI C63.10:2013 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

Let the EUT work in TX (Hopping off, Hopping on) modes measure it. We select 2402MHz, 2480MHz TX frequency to transmit(Hopping off mode). We select 2402-2480MHz TX frequency to transmit(Hopping on mode).

During the radiated emission test, the spectrum analyzer was set with the following configurations:

- 1. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz. 2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video
- bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
- 3.All modes of operation were investigated and the worst-case emissions are reported.



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### Non-hopping mode

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Job No.: LGW2018 #942 Polarization: Horizontal

Standard: FCC PK Power Source: AC 120V/60Hz

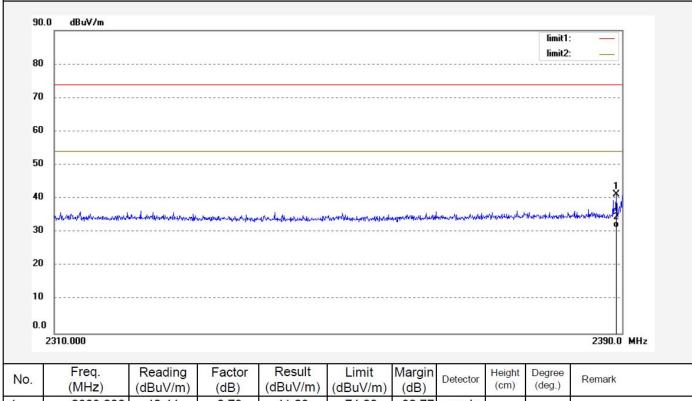
Test item: Radiation Test Date: 18/05/07/

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

EUT: **ACTIVE SPEAKER SYSTEM** Engineer Signature: WADE

Mode: TX 2402MHz Distance: 3m Model: A100

Manufacturer: Dongguan Platinum Audio Systems Co., Ltd.



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)		Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2389.200	40.44	0.79	41.23	74.00	-32.77	peak			
2	2389.200	30.65	0.79	31.44	54.00	-22.56	AVG			





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Job No.: LGW2018 #941 Polarization: Vertical

Standard: FCC PK Power Source: AC 120V/60Hz

Test item: Radiation Test Date: 18/05/07/

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

EUT: ACTIVE SPEAKER SYSTEM Engineer Signature: WADE

Mode: TX 2402MHz Distance: 3m

Manufacturer: Dongguan Platinum Audio Systems Co., Ltd.

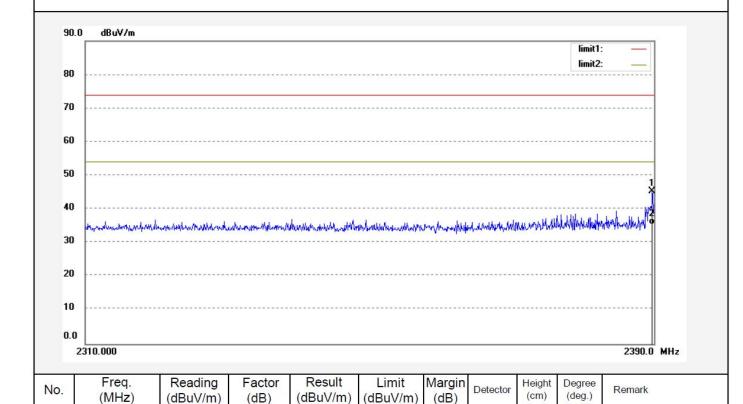
Note:

1

2

Model:

A100



74.00

54.00

-28.71

-18.55

peak

AVG

2389.760

2389.760

44.50

34.66

0.79

0.79

45.29

35.45





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Job No.: LGW2018 #947 Polarization: Horizontal

Standard: FCC PK Power Source: AC 120V/60Hz

Test item: Radiation Test Date: 18/05/07/

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

EUT: ACTIVE SPEAKER SYSTEM Engineer Signature: WADE

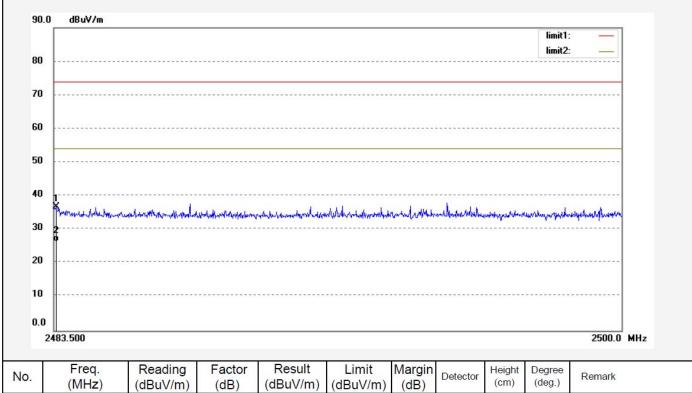
Mode: TX 2480MHz Distance: 3m

Manufacturer: Dongguan Platinum Audio Systems Co., Ltd.

Note:

Model:

A100



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.566	35.63	1.10	36.73	74.00	-37.27	peak			
2	2483.566	25.25	1.10	26.35	54.00	-27.65	AVG			





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Job No.: LGW2018 #948 Polarization: Vertical

Standard: FCC PK Power Source: AC 120V/60Hz

Test item: Radiation Test Date: 18/05/07/

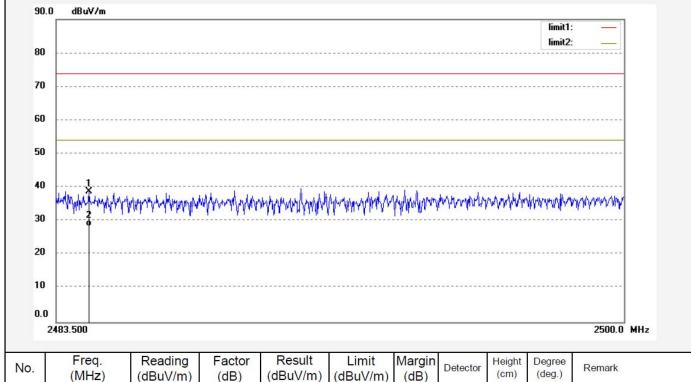
Temp.( C)/Hum.(%) 23 C / 48 % Time:

EUT: ACTIVE SPEAKER SYSTEM Engineer Signature: WADE

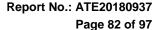
Mode: TX 2480MHz Distance: 3m

Model: A100

Manufacturer: Dongguan Platinum Audio Systems Co., Ltd.



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2484.457	37.63	1.09	38.72	74.00	-35.28	peak			
2	2484.457	27.36	1.09	28.45	54.00	-25.55	AVG			

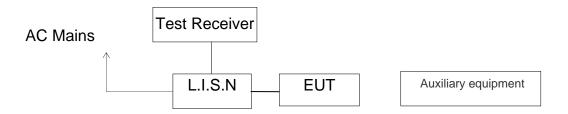




## 12.AC POWER LINE CONDUCTED EMISSION FOR FCC PART

# 15 SECTION 15.207(A)

### 12.1.Block Diagram of Test Setup



(EUT: ACTIVE SPEAKER SYSTEM)

### 12.2. Power Line Conducted Emission Measurement Limits

Frequency	Limit o	IB(μV)
(MHz)	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

NOTE1: The lower limit shall apply at the transition frequencies.

NOTE2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

### 12.3. 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.

Address: 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China Tel: +86-755-26503290 Fax: +86-755-26503396 E-mail: webmaster@atc-lab.com Http://www.atc-lab.com



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## 12.4. Operating Condition of EUT

- 12.4.1. Setup the EUT and simulator as shown as Section 12.1.
- 12.4.2. Turn on the power of all equipment.
- 12.4.3.Let the EUT work in test mode and measure it.

### 12.5.Test Procedure

The EUT is put on the plane 0.8m 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 500hm 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.

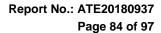
The bandwidth of test receiver (R & S ESCS30) is set at 9kHz.

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

### 12.6. Power Line Conducted Emission Measurement Results

#### PASS.

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





Test mode : B	Γ Playing	(AC 120	0V/60H	z)			
MEASUREMENT	RESULT	"TUV-	0508-2	_fin"			
5/8/2018 Frequency MHz	Level dBµV		Limit dBµV		Detector	Line	PE
0.440000 0.770000 3.840000 20.740000	40.80 37.60 35.70 37.80	10.8 11.1	57 56 56 60	16.3 18.4 20.3 22.2	QP QP	L1 L1 L1 L1	GND GND GND GND
MEASUREMENT	RESULT:	"TUV-	0508-2	_fin2"			
5/8/2018 Frequency MHz	Level dBµV		Limit dBµV		Detector	Line	PE
0.770000 1.535000	34.10 36.90 31.20 37.50	10.8	46 46	14.8	AV AV	L1 L1 L1 L1	GND GND GND GND
MEASUREMENT	RESULT	"TUV-	0508-1	fin"			
5/8/2018		_ ,		_			
Frequency MHz	dBµV				Detector	Line	PE
0.440000 0.770000 1.535000 6.910000	41.50 33.10 39.80 39.40	10.8	56 56	22.9	QP QP	N N N	GND GND GND GND
MEASUREMENT	RESULT:	"TUV-	0508-1	_fin2"			
5/8/2018 Frequency MHz	Level dBµV			_	Detector	Line	PE
0.440000 0.770000 1.535000 6.910000	35.10 30.40 38.90 38.40	10.7 10.8 10.9 11.2		15.6 7.1	AV AV	N N N	GND GND GND GND

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

The spectral diagrams are attached as below.

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#### ACCURATE TECHNOLOGY CO., LTD

#### CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: ACTIVE SPEAKER SYSTEM M/N:A100

Manufacturer: Dongguan Platinum Audio Systems Co., Ltd.

Operating Condition: Bluetooth playing Test Site: 1#Shielding Room

Operator: WADE

Test Specification: N 120V/60Hz Comment: Mains port Start of Test: 5/8/2018 /

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

Short Description: SUB STD VTERM2 1.70

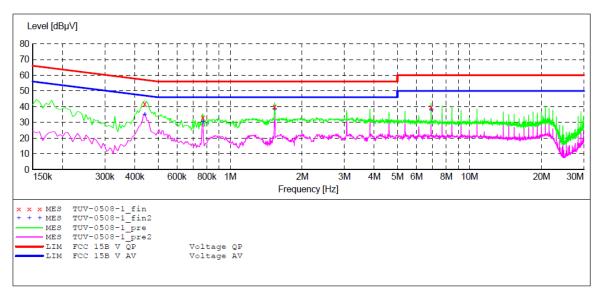
Start Stop Step Detector Meas. IF Transducer

Frequency Frequency Width Time Bandw.
9.0 kHz 150.0 kHz 100.0 Hz QuasiPeak 1.0 s 200 Hz NSLK8126 2008

150.0 kHz 100.0 Hz QuasiPeak 1.0 s Average

150.0 kHz 30.0 MHz 5.0 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008

Average



#### MEASUREMENT RESULT: "TUV-0508-1 fin"

5/8/2018 Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.440000	41.50	10.7	57	15.6	QP	N	GND
0.770000	33.10	10.8	56	22.9	QP	N	GND
1.535000	39.80	10.9	56	16.2	QP	N	GND
6.910000	39.40	11.2	60	20.6	QP	N	GND

#### MEASUREMENT RESULT: "TUV-0508-1 fin2"

Level	Transd	Limit	Margin	Detector	Line	PE
dBµV	dB	dBµV	dB			
•						
35.10	10.7	47	12.0	AV	N	GND
30.40	10.8	46	15.6	AV	N	GND
38.90	10.9	46	7.1	AV	N	GND
38.40	11.2	50	11.6	AV	N	GND
	dBμV 35.10 30.40 38.90	dBμV dB 35.10 10.7 30.40 10.8 38.90 10.9	dBμV dB dBμV 35.10 10.7 47 30.40 10.8 46 38.90 10.9 46	dBμV dB dBμV dB 35.10 10.7 47 12.0 30.40 10.8 46 15.6 38.90 10.9 46 7.1	dBμV dB dBμV dB  35.10 10.7 47 12.0 AV 30.40 10.8 46 15.6 AV 38.90 10.9 46 7.1 AV	35.10 10.7 47 12.0 AV N 30.40 10.8 46 15.6 AV N 38.90 10.9 46 7.1 AV N

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#### ACCURATE TECHNOLOGY CO., LTD

#### CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: ACTIVE SPEAKER SYSTEM M/N:A100

Manufacturer: Dongguan Platinum Audio Systems Co., Ltd.

Operating Condition: Bluetooth playing Test Site: 1#Shielding Room

Operator: WADE
Test Specification: L 120V/60Hz
Comment: Mains port
Start of Test: 5/8/2018 /

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

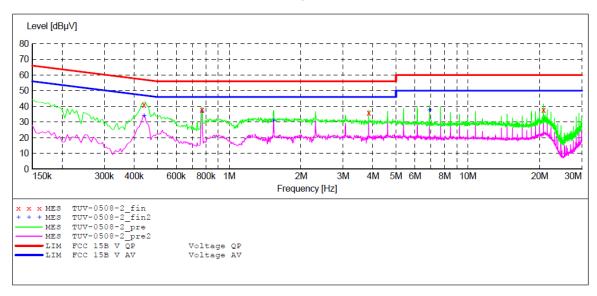
Short Description: SUB STD VTERM2 1.70
Start Stop Step Detector Meas. IF Transducer Frequency Frequency Width Time Bandw.

9.0 kHz 150.0 kHz 100.0 Hz QuasiPeak 1.0 s 200 Hz NSLK8126 2008

Average

150.0 kHz 30.0 MHz 5.0 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008

Average



#### MEASUREMENT RESULT: "TUV-0508-2 fin"

5/8/2018							
Frequenc	y Level	Transd	Limit	Margin	Detector	Line	PE
MH	z dBµV	dB	dΒμV	dB			
0.44000	0 40.80	10.7	57	16.3	QP	$_{ m L1}$	GND
0.77000	0 37.60	10.8	56	18.4	QP	L1	GND
3.84000	0 35.70	11.1	56	20.3	QP	L1	GND
20.74000	0 37.80	11.4	60	22.2	QP	L1	GND

#### MEASUREMENT RESULT: "TUV-0508-2 fin2"

5/8/2018 Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.440000	34.10	10.7	47	13.0	AV	L1	GND
0.770000	36.90	10.8	46	9.1	AV	L1	GND
1.535000	31.20	10.9	46	14.8	AV	L1	GND
6.910000	37.50	11.2	50	12.5	AV	L1	GND

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### 13.99% OCCUPIED BANDWIDTH

## 13.1. The Requirement for RSS-Gen Clause 6.6

The emission bandwidth (x dB) is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated x dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth. When the occupied bandwidth limit is not stated in the applicable RSS or reference measurement method, the transmitted signal bandwidth shall be reported as the 99% emission bandwidth

## 13.2.EUT Configuration on Measurement

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

## 13.3. Operating Condition of EUT

- 13.3.1. Setup the EUT and simulator as shown as Section 5.1.
- 13.3.2. Turn on the power of all equipment.
- 13.3.3.Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2441MHz, 2480MHz TX frequency to transmit.

### 13.4.Test Procedure

- 13.4.1.The transmitter shall be operated at its maximum carrier power measured under normal test conditions. The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts. The transmitter output was connected to the spectrum analyzer through a low loss cable.
- 13.4.2. The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the occupied bandwidth (OBW) and video bandwidth (VBW) shall be approximately 3x RBW. Set RBW of spectrum analyzer to 30kHz and VBW to 100kHz.



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13.4.3.Set SPA "Meas" function, Select "Occupied Bandwidth" function, Select "99% Power Bandwidth". The frequency of the upper and lower markers indicating the edges of the transmitters "99% Power" emission bandwidth shall be recorded to automate by SPA.

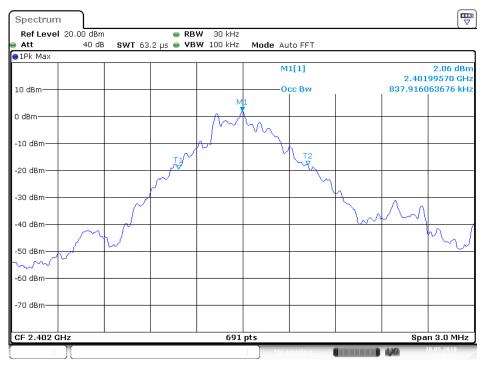
### 13.5.Measurement Result

Channel	Frequency (MHz)	BDR mode 99% Bandwidth (MHz)	EDR mode 99% Bandwidth (MHz)	Result
Low	2402	0.838	1.155	Pass
Middle	2441	0.838	1.142	Pass
High	2480	0.838	1.146	Pass

The spectrum analyzer plots are attached as below.

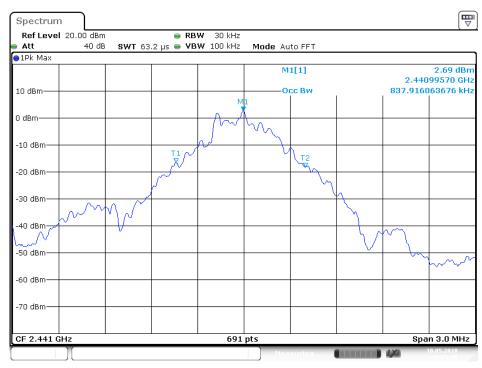
### BDR mode

### Low channel



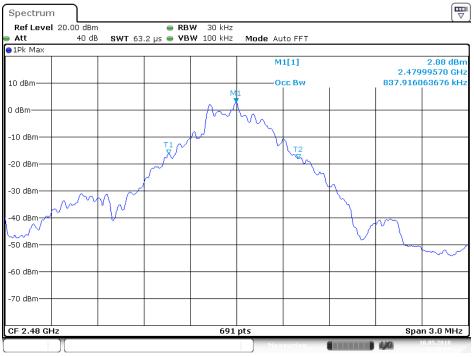
Date: 10.MAY.2018 16:56:15

Middle channel



Date: 10.MAY.2018 16:55:46

## High channel

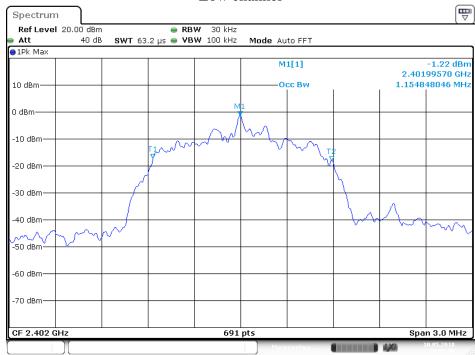


Date: 10.MAY.2018 16:55:06



### EDR mode

### Low channel



Date: 10.MAY.2018 16:52:41

### Middle channel

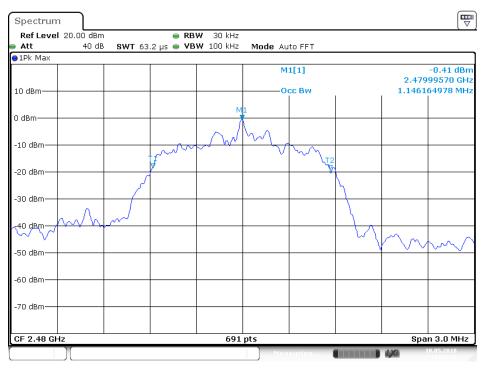


Date: 10.MAY.2018 16:53:23



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## High channel

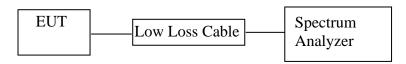


Date: 10.MAY.2018 16:54:00

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14. CONDUCTED SPURIOUS EMISSION COMPLIANCE TEST

# 14.1.Block Diagram of Test Setup



(EUT: ACTIVE SPEAKER SYSTEM)

### 14.2. The Requirement For Section 15.247(d)

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

### 14.3.EUT Configuration on Measurement

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

### 14.4. Operating Condition of EUT

- 14.4.1. Setup the EUT and simulator as shown as Section 14.1.
- 14.4.2. Turn on the power of all equipment.
- 14.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480 MHz. We select 2402MHz, 2441MHz, and 2480MHz TX frequency to transmit.

shenzhen Accurate Technology Co., Ltd.

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### 14.5.Test Procedure

- 14.5.1. The transmitter output was connected to the spectrum analyzer via a low loss cable.
- 14.5.2.Set RBW of spectrum analyzer to 100kHz and VBW to 300kHz
- 14.5.3. The Conducted Spurious Emission was measured and recorded.

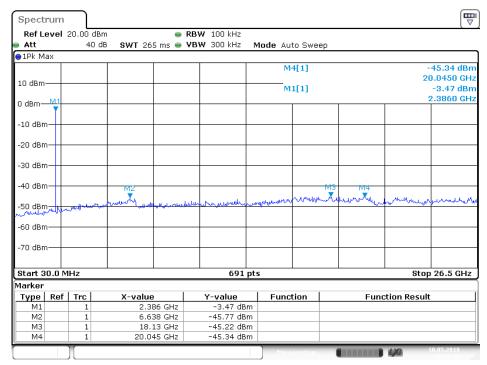
### 14.6.Test Result

#### Pass.

The spectrum analyzer plots are attached as below.

#### **BDR** mode

### Low Channel 2402MHz

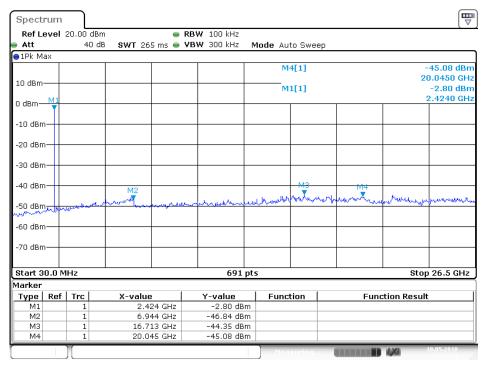


Date: 10.MAY.2018 17:12:26

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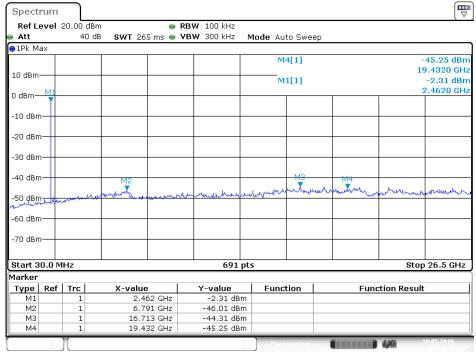


### Middle Channel 2441MHz



Date: 10.MAY.2018 17:13:34

### **High Channel 2480MHz**

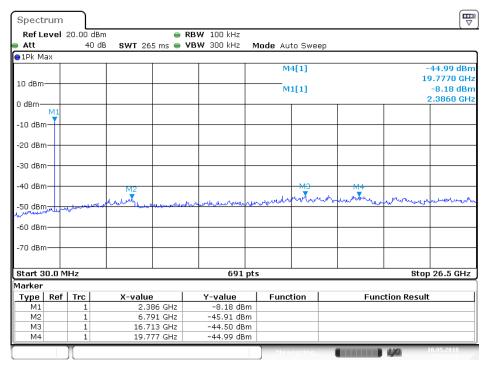


Date: 10.MAY.2018 17:14:41



### **EDR** mode

### Low Channel 2402MHz



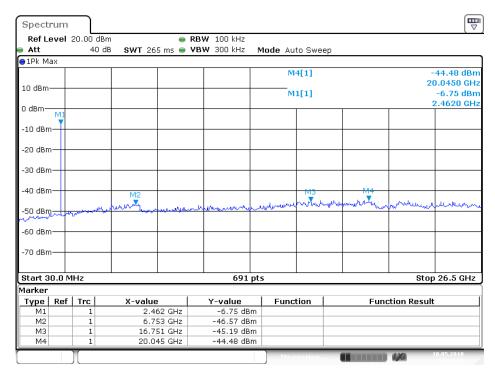
Date: 10.MAY.2018 17:18:10

#### **Middle Channel 2441MHz** Spectrum Ref Level 20.00 dBm RBW 100 kHz Att 40 dB SWT 265 ms • VBW 300 kHz Mode Auto Sweep ●1Pk Max M4[1] 44.38 dBm 18,0530 GHz 10 dBm M1[1] -7.45 dBm 2.4240 GHz 0 dBm--10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm Stop 26.5 GHz Start 30.0 MHz 691 pts Marker Type Ref | Trc X-value Y-value Function **Function Result** 2.424 GHz 6.638 GHz M1 M2 7.45 dBm -45.95 dBm МЗ 16.061 GHz -43.80 dBm M4 18.053 GHz -44.38 dBm

Date: 10.MAY.2018 17:17:08



## **High Channel 2480MHz**



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# 15.ANTENNA REQUIREMENT

## 15.1.The Requirement

According to Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

### 15.2. Antenna Construction

Device is equipped with permanent attached antenna, which isn't displaced by other antenna. The Max Antenna gain of EUT is 2.87dBi. Therefore, the equipment complies with the antenna requirement of Section 15.203.