



TEST REPORT No.: (5216)019-0563(A)

## TEST REPORT

To:	<b>KIDDESIGNS INC.</b>	To:	-
Attn:	Jasjit Singh	Attn:	-
Address:	1299 Main Street, Rahway, New Jersey, 07065-0901, USA	Address:	-
Fax:	2333-3839	Fax:	-
E-mail:	--	E-mail:	-
Folder No.:	--		
Factory Name:	<b>DEREK (SHAOQUAN) LIMITED</b>		
Location:	--		
Product:	202 WALKIE TALKIES Model No.: FD-202 Additional Model. No.: Please see page 4		

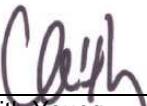


Sample No:	(5216)019-0563
Date of Receipt:	January 19, 2016
Test date:	January 25, 2016
Test Requested:	FCC Part 15 – 2012
Test Method:	ANSI C63.4 – 2009
FCC ID:	IAJ202B

The results given in this report are related to the tested specimen of the described electrical apparatus.

**CONCLUSION:** The submitted sample was found to COMPLY with requirement of FCC Part 15 Subpart C.

Authorized Signature:

	
Reviewed by: Keith Yeung	Approved by: Law Man Kit
Date: February 15, 2016	Date: February 15, 2016

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**TEST REPORT No.: (5216)019-0563(A)**

## Test Result Summary

<b>EMISSION TEST</b>			
<b>Test requirement: FCC Part 15 – 2012</b>	<b>Test Method</b>	<b>Test Result</b>	
		<b>Pass</b>	<b>Failed</b>
Radiated Emission Test, 9kHz to 1GHz	ANSI C63.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Frequency range of Fundamental Emission	ANSI C63.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
26dB Bandwidth of Fundamental Emission	ANSI C63.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>

## Report Revision & Sample Re-submit History:

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## **Test Laboratory & Test Instruments List**

Radiated and Conducted emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 2009. An Open Area Test Site and Full Anechoic Chamber (FCC Listed Site, Registration No. 642151) are set up for investigation and located at:

### **BUREAU VERITAS HONG KONG LIMITED, EMC CENTRE**

No. 2106-2107, 21/F., Westin Centre,

26 Hung To Road,

Kwun Tong, Kowloon,

Hong Kong

## **Test Instrument List**

### **Radiated Emission**

EQUIPMENT	MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATION DUE
EMI TEST RECEIVER	R&S	ESCI	100379	03-FEB-2016
LOOP ANTENNA	ETS-LINDGREN	6502	00102266	05-NOV-2016
BILOG ANTENNA	SCHAFFNER	CBL6112D	25229	02-FEB-2016
OPEN AREA TEST SITE	BVCPS	N/A	N/A	18-JUN-2016
ANECHOIC CHAMBER	ALBATROSS	M-CDC	80374004499B	12-FEB-2016
COAXIAL CABLE	SUHNER	RG214	N/A	04-OCT-2016

## **Measurement Uncertainty**

Measurement	Frequency	Uncertainty
Radiated emissions	9kHz to 30MHz	4.2dB
	30MHz to 1GHz	5.0dB
	1GHz to 18GHz	4.9dB
	18GHz to 40GHz	4.8dB

### **Remarks:-**

N/A : Not Applicable or Not Available

The measurement instrumentation uncertainty would be taking into consideration on each of the test result

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## TEST REPORT No.: (5216)019-0563(A)

### Equipment Under Test [EUT]

#### Description of Sample:

Model Name:	202 WALKIE TALKIES
Model Number:	FD202
Additional Model Name:	FINDING DORY WALKIE TALKIES, ANT-MAN WALKIE TALKIES, AVENGERS WALKIE TALKIES, CARS WALKIE TALKIES, DISNEY PRINCESS WALKIE TALKIES, DINO TRUX WALKIE TALKIES, FROZEN WALKIE TALKIES, GUARIANS OF THE GALAXY WALKIE TALKIES, HELLO KITTY WALKIE TALKIES, MOANA WALKIE TALKIES, MINNIE MOUSE WALKIE TALKIES, MINIONS WALKIE TALKIES, DESPICABLE ME MINION MADE MINION MANIA WALKIE TALKIES, POKEMON WALKIE TALKIES, PAW PATROL WALKIE TALKIES, PAW PATROL MARSHALL & RUBBLE WALKIE TALKIES, SOFIA-THE-FIRST WALKIE TALKIES, SKYLANDERS WALKIE TALKIES, SECRET LIFE OF PETS WALKIE TALKIES, ULTIMATE SPIDERMAN WALKIE TALKIES, DOC MCSTUFFINS WALKIE TALKIES, STAR WARS EPISODE VII WALKIE TALKIES, TROLLS WALKIE TALKIES, ZOOTOPIA WALKIE TALKIES
Additional Model Number:	FD-202.EX, FD-202.FX, AM-202, AM-202.EX, AV-202, AV-202.EX, CR-202, CR-202.EX, DP-202, DP-202.EXv6, DX-202, DX-202.EXv6, FR-202, FR-202.EX, FR-202LF, FR-202LF.EX, GG-202, GG-202.EXv1, HY-202, HY-202.EXv6, MA-202, MA-202.EXv6, MM-202, MM-202.EX, MS-202, MS-202.EXv6, MS-202MM, MS-202MM.EX, PK-202, PK-202.EXv6, PW-202, PW-202.EX, PW-202CH, PW-202CH.EX, PW-202MA, PW-202MA.EX, SF-202, SF-202.EX, SK-202, SK-202.EXv6, SL-202, SL-202.EX, SM-202, SM-202.EX, SM-202.EXv1, ST-202, ST-202.EX, SW-202B7, SW-202B7.EX, SW-202E7, SW-202E7.EX, SW-202E7.FX, TR-202, TR-202.EXv6, ZT-202, ZT-202.EX
Additional Model Information:	Declare the Circuit, PCB layout and Electrical parts of the products are identical to the basic model, except the model number and appearance.
Rating:	6Vd.c. ("LR44" size battery x 4)



## TEST REPORT No.: (5216)019-0563(A)

### Description of EUT Operation:

The Equipment Under Test (EUT) is a **KIDDESIGNS INC.** of Radio Control toy. It is a 1 button and 1 switch transceiver and operating at 49.86MHz. The EUT continues to transmit when a button is being pushed, Modulation by IC, and type is amplitude modulation.

The transmitter has different control:

1. Talk button – transmit/receive control
2. ON/OFF switch – power on/off control

### Antenna Requirement

The EUT is use of a permanently antenna. The antenna consists of 10.5cm long metal spring covered with rubber. It is soldered on the PCB. The antenna is not replaceable or user serviceable. The requirement of S15.203 are met .There are no deviations or exceptions to the specifications.

**Photo of Antenna**





## TEST REPORT No.: (5216)019-0563(A)

### Test Results

#### Radiated Emissions (Fundamental)

Test Requirement: FCC Part 15 Section 15.235  
Test Method: ANSI C63.4  
Test Date(s): 2016-01-25  
Temperature: 18.0 °C  
Humidity: 35.0 %  
Atmospheric Pressure: 100.6 kPa  
Mode of Operation: Transmission mode  
Tested Voltage: 6Vd.c. ("LR44" size battery x 4)

#### Test Method:

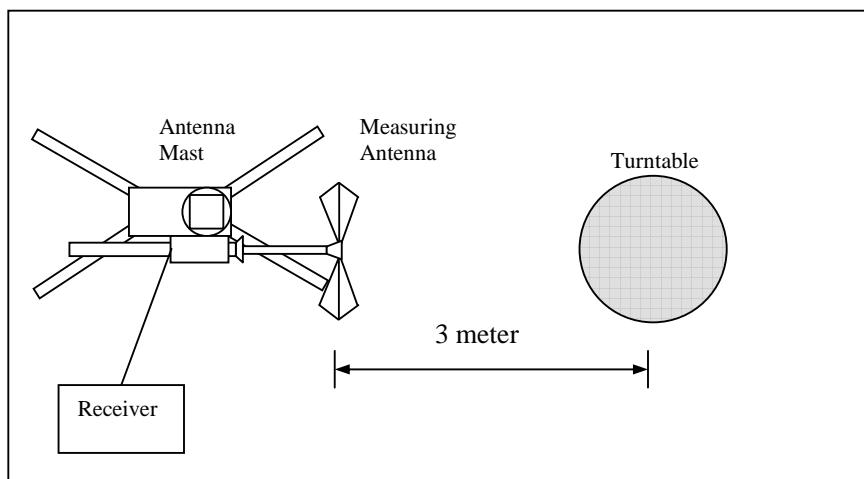
Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 2009.

The equipment under test (EUT) was placed on a non-conductive turntable with dimensions of 1.5m x 1m and 0.8m high above the ground. 3m from the EUT, a broadband antenna mounting on the mast received the signal strength. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, For battery operated equipment, the equipment tests shall be perform using new battery. The turntable was rotated to maximize the emission level. The antenna was then moving along the mast from 1m up to 4m until no more higher value was found. Both horizontal and vertical polarization of the antenna were placed and investigated.

For below 30MHz, a loop antenna with its vertical plane is place 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1m above the ground.

Location: The Roof, Westin Centre, 26 Hung To Road, Kwun Tong, Kowloon, Hong Kong

#### Test Setup: Open Area Test Site



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### Limits for Field Strength of Fundamental Emissions [FCC 47CFR 15.235]:

Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission [Peak] [ $\mu$ V/m]	Field Strength of Fundamental Emission [Average] [ $\mu$ V/m]
49.82 – 49.90	100,000 (100 dB $\mu$ V/m)	10,000 (80 dB $\mu$ V/m)

### Measurement Data

**Test Result of (Transmission mode): PASS**

#### Detection mode: Peak

Frequency (MHz)	Polarity (H/V) and degree	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dB $\mu$ V/m)	Limit at 3m (dB $\mu$ V/m)	Margin (dB)
49.86	H	10.9	69.2	100	-30.8
49.86	V	10.9	65.6	100	-34.4

#### Detection mode: Average

Frequency (MHz)	Polarity (H/V) and degree	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dB $\mu$ V/m)	Limit at 3m (dB $\mu$ V/m)	Margin (dB)
49.86	H	10.9	69.0	80	-11.0
49.86	V	10.9	65.3	80	-14.7

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 100KHz  
VBW = 300KHz



## TEST REPORT No.: (5216)019-0563(A)

### Radiated Emissions (9kHz – 1GHz)

Test Requirement: FCC Part 15 Section 15.209  
Test Method: ANSI C63.4  
Test Date(s): 2016-01-25  
Temperature: 18.0 °C  
Humidity: 35.0 %  
Atmospheric Pressure: 100.6 kPa  
Mode of Operation: Transmission mode  
Tested Voltage: 6Vd.c. ("LR44" size battery x 4)

#### Limits for Radiated Emissions [FCC 47 CFR 15.209]:

Frequency Range [MHz]	Quasi-Peak Limits [µV/m]	Measurement Distance m
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above960	500	3

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## TEST REPORT No.: (5216)019-0563(A)

### Measurement Data

**Test Result of (Transmission mode): PASS**

**Detection mode: Quasi-Peak**

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dB $\mu$ V/m)	Limit at 3m (dB $\mu$ V/m)	Margin (dB)
99.72	H	12.0	24.3	43.5	-19.2
149.58	H	10.7	30.1	43.5	-13.4
199.44	H	9.8	28.6	43.5	-14.9
249.30	H	13.1	37.2	46.0	-8.8
299.16	H	13.9	39.3	46.0	-6.7
349.02	H	15.9	30.2	46.0	-15.8
398.88	H	17.5	35.3	46.0	-10.7
448.74	H	18.0	31.3	46.0	-14.7
498.60	H	19.2	36.3	46.0	-9.7
548.46	H	20.4	35.7	46.0	-10.3
648.18	H	20.4	38.6	46.0	-7.4
698.04	H	21.1	35.5	46.0	-10.5
747.90	H	22.4	42.7	46.0	-3.3
797.76	H	22.2	45.6	46.0	-0.4
847.62	H	23.0	44.3	46.0	-1.7
897.48	H	23.0	35.2	46.0	-10.8

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 120KHz  
VBW = 120KHz



## TEST REPORT No.: (5216)019-0563(A)

### Measurement Data

**Test Result of (Transmission mode): PASS**

**Detection mode: Quasi-Peak**

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dB $\mu$ V/m)	Limit at 3m (dB $\mu$ V/m)	Margin (dB)
99.72	V	12.0	20.1	43.5	-23.4
149.58	V	10.7	29.5	43.5	-14.0
199.44	V	9.8	26.4	43.5	-17.1
249.30	V	13.1	34.1	46.0	-11.9
299.16	V	13.9	34.8	46.0	-11.2
349.02	V	15.9	28.6	46.0	-17.4
398.88	V	17.5	34.1	46.0	-11.9
448.74	V	18.0	31.5	46.0	-14.5
498.60	V	19.2	35.2	46.0	-10.8
548.46	V	20.4	33.6	46.0	-12.4
648.18	V	20.4	39.0	46.0	-7.0
698.04	V	21.1	37.8	46.0	-8.2
747.90	V	22.4	40.6	46.0	-5.4
797.76	V	22.2	45.3	46.0	-0.7
847.62	V	23.0	44.7	46.0	-1.3
897.48	V	23.0	40.8	46.0	-5.2

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 120KHz  
VBW = 120KHz



## TEST REPORT No.: (5216)019-0563(A)

### Test Results

#### Radiated Emissions (30MHz – 1GHz)

Test Requirement: FCC Part 15 Section 15.109  
Test Method: ANSI C63.4  
Test Date(s): 2016-01-25  
Temperature: 18.0 °C  
Humidity: 35.0 %  
Atmospheric Pressure: 100.6 kPa  
Mode of Operation: Receiver mode  
Tested Voltage 6Vd.c. ("LR44" size battery x 4)

#### Test Method:

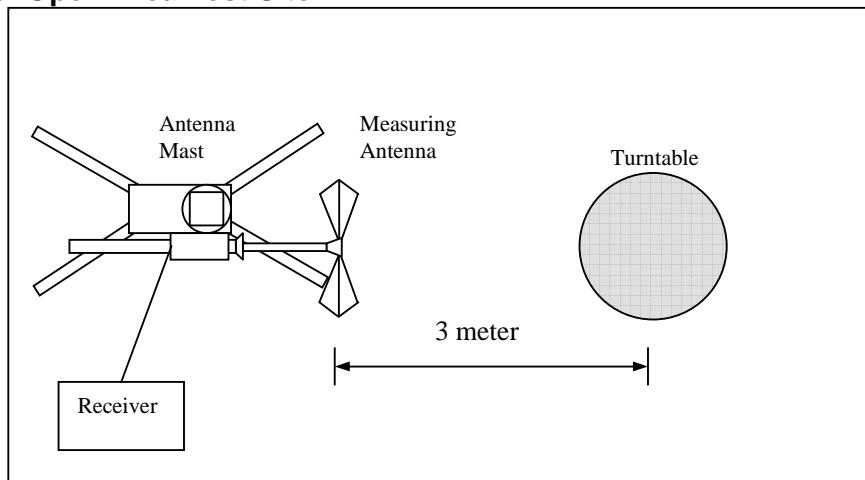
Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 2009.

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For below 30MHz, a loop antenna with its vertical plane is place 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1m above the ground.

Location: The Roof, Westin Centre, 26 Hung To Road, Kwun Tong, Kowloon, Hong Kong

#### Test Setup: Open Area Test Site



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### Limits for Radiated Emission: FCC Part 15.109

Frequency Range [MHz]	Limits [dB $\mu$ V/m @ 3m]
30-88	40.0
88-216	43.5
216-960	46.0
Above 960	54.0

### Measurement Data

Test Result of (Receiver mode): PASS

#### Detection mode: Quasi-Peak

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dB $\mu$ V/m)	Limit at 3m (dB $\mu$ V/m)	Margin (dB)
47.88	H	11.3	38.9	40.0	-1.1
95.76	H	11.2	20.3	43.5	-23.2
143.64	H	11.5	21.6	43.5	-21.9
191.52	H	9.8	21.2	43.5	-22.3
239.40	H	12.4	23.4	46.0	-22.6
287.28	H	14.0	24.0	46.0	-22.0

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dB $\mu$ V/m)	Limit at 3m (dB $\mu$ V/m)	Margin (dB)
47.88	V	11.3	37.5	40.0	-2.5
95.76	V	11.2	20.1	43.5	-23.4
143.64	V	11.5	21.7	43.5	-21.8
191.52	V	9.8	21.5	43.5	-22.0
239.40	V	12.4	23.0	46.0	-23.0
287.28	V	14.0	24.2	46.0	-21.8

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 120KHz  
VBW = 120KHz



## TEST REPORT No.: (5216)019-0563(A)

### 26dB Bandwidth of Fundamental Emission

Test Requirement: FCC 47 CFR 15.235  
Test Method: ANSI C63.4

Test Date(s): 2016-01-25  
Temperature: 18.0 °C  
Humidity: 35.0 %  
Atmospheric Pressure: 100.6 kPa

Mode of Operation: Transmission mode  
Tested Voltage: 6Vd.c. ("LR44" size battery x 4)

#### Test Method:

The bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

#### Limits for 26dB Bandwidth of Fundamental Emission:

Frequency [MHz]	26dB Bandwidth [KHz]	Limits [MHz]
49.86	9.20	within 49.82-49.90

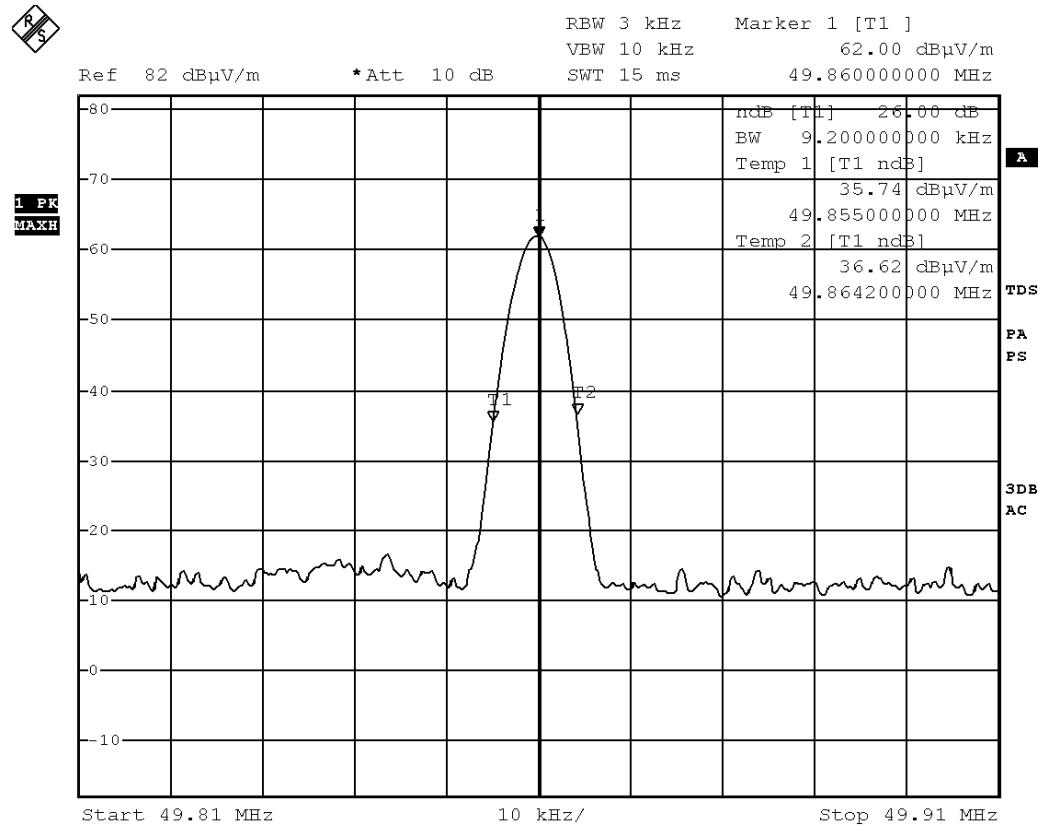


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### Measurement Data

#### Test Result of 26dB Bandwidth of Fundamental Emission: PASS



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### Photographs of EUT

Front View of the product



Rear View of the product



Top View of the product



Bottom View of the product



Side View of the product



Side View of the product



Battery compartment



Battery Cover



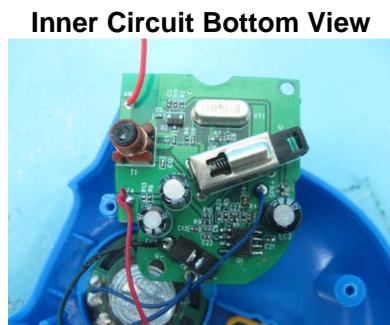
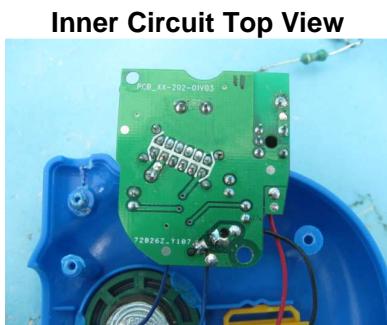
**BUREAU VERITAS HONG KONG LIMITED –**  
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## TEST REPORT No.: (5216)019-0563(A)

### Photographs of EUT



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## TEST REPORT No.: (5216)019-0563(A)

### Measurement of Radiated Emission Test Set Up



\*\*\*\*\* End of Report \*\*\*\*\*

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