

FCC RF EXPOSURE EVALUATION REPORT

Product Name: MI BOX

Trade Mark: MI

Model No.: MDZ-22-AB

Report Number: 180320001RFC-5

Test Standards: FCC 47 CFR Part 1 Subpart I

FCC ID: 2AIMRMITVMDZ22AB

Test Result: PASS

Date of Issue: June 22, 2018

Prepared for:

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Prepared by:

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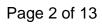
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Report No.: 180320001RFC-5

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Shenzhen UnionTrust Quality and Technology Co., Ltd.





Version

Version No. Date		Description	
V1.0	June 22, 2018	Original	





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1. GENERAL INFORMATION 1.1 CLIENT INFORMATION

Applicant:	Applicant: Beijing Xiaomi Electronics Co.,Ltd			
Address of Applicant: Room 707,7F,Building 5,No 58,JinghaiWulu Road Beijing economic Technological Development Zone, Beijing, China				
Manufacturer: Beijing Xiaomi Electronics Co.,Ltd				
Address of Manufacturer: Room 707,7F,Building 5,No 58,JinghaiWulu Road Beijing econo Technological Development Zone, Beijing, China				

1.2 EUT INFORMATION

ZEOT INI ORIMATION					
Product Name:	MI BOX				
Model No.:	MDZ-22-AB				
Add. Model No.:	o.: MDZ-22-AC, MDZ-22-AD, MDZ-22-AE, MDZ-22-AF (See Note 1)				
Trade Mark:	MI				
DUT Stage:	Identical Prototype				
	2.4 GHz ISM Band:	IEEE 802.11b/g/n			
		Bluetooth: V4.0			
EUT Supports Function:	5 GHz U-NII Bands:	5 150 MHz to 5 250 MHz IEEE 802.11a/n/ac			
EUT Supports Function.		5 250 MHz to 5 350 MHz IEEE 802.11a/n/ac			
		5 470 MHz to 5 725 MHz IEEE 802.11a/n/ac			
		5 725 MHz to 5 850 MHz IEEE 802.11a/n/ac			
Sample Received Date:	May 9, 2018				
Sample Tested Date:	May 18, 2018 to May 31, 2018				
	del MDZ-22-AC, MDZ-22-AD, MDZ-22-AE, MDZ-22-AF is identical with the test				
model MD7-22-AB except the model number for marketing number					

model MDZ-22-AB except the model number for marketing purpose.

1.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

51 K52551 51 E511 15/K151 5525E5117E 15 11115 51/K12/K12					
For BT_LE					
Frequency Band:	2400 MHz to 2483.5 MHz				
Bluetooth Version:	Bluetooth LE				
Type of Modulation:	GFSK				
Number of Channels:	40				
Channel Separation:	2 MHz				
Antenna Type:	PCB Antenna				
Antenna Gain:	1.5 dBi				
Maximum Peak Power:	8.29 dBm				

For BT_EDR			
Frequency Band:	2400 MHz to 2483.5 MHz		
Bluetooth Version:	Bluetooth EDR		
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)		
Type of Modulation:	GFSK, π/4DQPSK, 8DPSK		
Number of Channels:	79		
Channel Separation:	1 MHz		
Antenna Type:	PCB Antenna		
Antenna Gain:	1.5 dBi		
Maximum Peak Power: 10.70 dBm			



For 2.4 GHz ISM Band of Wi-Fi				
Frequency Band:	2400 MHz to 2483.5 MHz			
Support Standards:	IEEE 802.11b, IEEE 802.11g, IEEE 802.11n-HT20, IEEE 802.11n-HT40			
Type of Modulation:	IEEE 802.11b: DSSS(CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n-HT20: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n-HT40: OFDM(64QAM, 16QAM, QPSK, BPSK)			
Data Rate:	IEEE 802.11b: Up to 11 Mbps IEEE 802.11g: Up to 54 Mbps IEEE 802.11n-HT20: Up to MCS7 IEEE 802.11n-HT40: Up to MCS7			
Number of Channels:	IEEE 802.11b: 11 IEEE 802.11g: 11 IEEE 802.11n-HT20: 11 IEEE 802.11n-HT40: 7			
Channel Separation:	5 MHz			
Antenna Type:	PCB Antenna			
Antenna Gain:	1.5 dBi			
Maximum Peak Power:	IEEE 802.11b: 18.92 dBm IEEE 802.11g: 24.62 dBm IEEE 802.11n-HT20: 22.37 dBm IEEE 802.11n-HT40: 20.43 dBm			

For 5 GHz U-NII Bands of V	Vi-Fi				
	5150 MHz to 5250 MHz				
Frequency Band:	5250 MHz to 5350 MHz				
Frequency Band.	5470 MHz to 5725 MHz				
	5 725 MHz to 5 850 MHz				
Support Standards:	IEEE 802.11a/n/ac				
TPC Function:	Not Support				
DFS Operational mode:	Slave without radar Interference detection function				
	IEEE 802.11a: OFDM(64QAM, 16QAM, QPSK, BPSK)				
Type of Modulation:	IEEE 802.11n: OFDM(64QAM, 16QAM, QPSK, BPSK)				
	IEEE 802.11ac: OFDM(256QAM, 64QAM, 16QAM, QPSK, BPSK)				
	IEEE 802.11a/n-HT20/ac-VHT20: 20 MHz				
Channel Spacing:	IEEE 802.11n-HT40/ac-VHT40: 40 MHz				
	IEEE 802.11ac-VHT80: 80 MHz				
	IEEE 802.11a: Up to 54 Mbps				
	IEEE 802.11n-HT20: Up to MCS7				
Data Rate:	IEEE 802.11n-HT40: Up to MCS7				
Data Kate:	IEEE 802.11ac-VHT20: Up to MCS8				
	IEEE 802.11ac-VHT40: Up to MCS9				
	IEEE 802.11ac-VHT80: Up to MCS9				
	5150 MHz to 5250 MHz:				
	4 for IEEE 802.11a/n-HT20/ac-VHT20				
	2 for IEEE 802.11n-HT40)/ac-VHT40				
Number of Channels:	1 for IEEE 802.11acVHT80				
Number of Chamers:	5250 MHz to 5350 MHz:				
	4 for IEEE 802.11a/n-HT20/ac-VHT20				
	2 for IEEE 802.11n-HT40/ac-VHT40				
	1 for IEEE 802.11acVHT80				



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	5470 MHz to 5725 MHz: 11 for IEEE 802.11a/n-HT20/ac-VHT20 5 for IEEE 802.11n-HT40/ac-VHT40 2 for IEEE 802.11ac-VHT80				
	5725 MHz to 5850 MHz: 5 for IEEE 802.11a/n-HT20/ac-VHT20 2 for IEEE 802.11n-HT40/ac-VHT40 1 for IEEE 802.11ac-VHT80				
Antenna Type:	PCB Antenna				
Antenna Gain:	5150 MHz to 5250 MHz: 1.9 dBi 5250 MHz to 5350 MHz: 1.9 dBi				
Antenna Gain:	5470 MHz to 5725 MHz: 1.9 dBi				
	5725 MHz to 5850 MHz: 1.9 dBi				
	Mode	U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
	IEEE 802.11a:	12.64	13.21	11.74	11.64
Max. Avg. Power (dBm):	IEEE 802.11n-HT20:	11.75	11.75	11.67	10.78
	IEEE 802.11n-HT40:	7.98	7.95	7.69	7.79
IEEE 802.11ac-VHT80: 8.38 8.62 8.59					8.47

1.40THER INFORMATION

Test channels for BT_LE					
Type of Modulation Tx/Rx Frequency		Test RF Channel Lists			
		Lowest(L)	Middle(M)	Highest(H)	
GFSK	2402 MHz to 2480 MHz	Channel 0	Channel 19	Channel 39	
		2402 MHz	2440 MHz	2480 MHz	

Test channels for BT_EDR					
Mode	Tx/Rx Frequency	Test RF Channel Lists			
Wode		Lowest(L)	Middle(M)	Highest(H)	
GFSK	2402 MHz to 2480 MHz	Channel 0	Channel 39	Channel 78	
(DH1, DH3, DH5)		2402 MHz	2441 MHz	2480 MHz	
π/4DQPSK	2402 MHz to 2480 MHz	Channel 0	Channel 39	Channel 78	
(DH1, DH3, DH5)		2402 MHz	2441 MHz	2480 MHz	
8DPSK	2402 MUz to 2400 MUz	Channel 0	Channel 39	Channel 78	
(DH1, DH3, DH5)	2402 MHz to 2480 MHz	2402 MHz	2441 MHz	2480 MHz	

Test channels for 2.4 GHz ISM Band of Wi-Fi					
Mode	Tx/Rx Frequency	Test RF Channel Lists			
Wiode		Lowest(L)	Middle(M)	Highest(H)	
IEEE 802.11b	2412 MHz to 2462 MHz	Channel 1	Channel 6	Channel 11	
IEEE 602.11D		2412 MHz	2437 MHz	2462 MHz	
IEEE 902 11a	2412 MHz to 2462 MHz	Channel 1	Channel 6	Channel 11	
IEEE 802.11g		2412 MHz	2437 MHz	2462 MHz	
IEEE 802.11n-HT20	2412 MHz to 2462 MHz	Channel 1	Channel 6	Channel 11	
1666 002.1111-0120		2412 MHz	2437 MHz	2462 MHz	
IEEE 802.11n-HT40	2422 MHz to 2452 MHz	Channel 3	Channel 6	Channel 9	
1EEE 002.1111-1140	2422 IVITIZ (U 2452 IVITIZ	2422 MHz	2437 MHz	2452 MHz	



Test channels for 5 GH		Test RF Channel Lists			
Mode	Tx/Rx Frequency	Lowest(L)	Middle(M)	Highest(H)	
		Channel 36	Channel 44	Channel 48	
	5150 MHz to 5250 MHz	5180 MHz	5220 MHz	5240 MHz	
		Channel 52	Channel 60	Channel 64	
IEEE 802.11a	5250 MHz to 5350 MHz	5260 MHz	5300 MHz	5320 MHz	
IEEE 802.11n-HT20 IEEE 802.11ac-VHT20	- 4-0 MIL 4 MIL	Channel 100	Channel 116	Channel 140	
ILLE 002.11ac-V11120	5470 MHz to 5725 MHz	5500 MHz	5580 MHz	5700 MHz	
	5705 MIL- 4- 5050 MIL	Channel 149	Channel 157	Channel 161	
	5725 MHz to 5850 MHz	5745 MHz	5785 MHz	5805 MHz	
	5150 MHz to 5250 MHz	Channel 38		Channel 46	
	3 130 IVITZ (0 3230 IVITZ	5190 MHz		5230 MHz	
	5250 MHz to 5350 MHz	Channel 54		Channel 62	
IEEE 802.11n-HT40		5270 MHz		5310 MHz	
IEEE 802.11ac-VHT40	5470 MHz to 5725 MHz	Channel 102	Channel 110	Channel 134	
		5510 MHz	5550 MHz	5670 MHz	
	5725 MHz to 5850 MHz	Channel 151		Channel 159	
	37 23 WIF12 TO 3630 WIF12	5755 MHz		5795 MHz	
	5150 MHz to 5250 MHz	-	Channel 42		
	3 130 WH 12 TO 3230 WH 12	-	5210 MHz		
	5250 MHz to 5350 MHz		Channel 58		
IEEE 802.11ac-HT80	3230 WILIZ 10 3330 WILIZ		5290 MHz		
	5470 MHz to 5725 MHz	Channel 106		Channel 122	
	J-70 IVII IZ IO 3723 IVITIZ	5530 MHz		5610 MHz	
	5725 MHz to 5850 MHz		Channel 155		
	OT ZO IVII IZ 10 DODU IVITIZ		5775 MHz		

1.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product, according to the specifications of the manufacturers. It must comply with the requirements of the following standards:

FCC 47 CFR Part 1 Subpart I

All test items have been performed and recorded as per the above standards

1.6 TEST LOCATION

All tests were performed at:

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: 16/F, Block A, Building 6, Baoneng Science and Technology Park, Qingxiang Road No.1, Longhua

New District, Shenzhen, China 518109 Telephone: +86 (0) 755 2823 0888 Fax: +86 (0) 755 2823 0886



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1.7 TEST FACILITY

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L9069

The measuring equipment utilized to perform the tests documented in this report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable under the ISO/IEC/EN 17025 to international or national standards. Equipment has been calibrated by accredited calibration laboratories.

IC-Registration No.: 21600-1

The 3m Semi-anechoic chamber of Shenzhen UnionTrust Quality and Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 21600-1.

A2LA-Lab Certificate No.: 4312.01

Shenzhen UnionTrust Quality and Technology Co., Ltd. has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC Accredited Lab.

Designation Number: CN1194

Test Firm Registration Number: 259480

1.8 DEVIATION FROM STANDARDS

None.

1.9 ABNORMALITIES FROM STANDARD CONDITIONS

None.

1.10 OTHER INFORMATION REQUESTED BY THE CUSTOMER

None.

2. EQUIPMENT LIST

Please refer to the RF test report.

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3. MPE EVALUATION

3.1 REFERENCE DOCUMENTS FOR EVALUATION

No.	Identity	Document Title
1	FCC 47 CFR Part 1 Subpart I	PROCEDURES IMPLEMENTING THE NATIONAL ENVIRONMENTAL POLICY ACT OF 1969
2	KDB 447498 D01 General RF Exposure Guidance v06	RF EXPOSURE PROCEDURES AND EQUIPMENT AUTHORIZATION POLICIES FOR MOBILE AND PORTABLE DEVICES

3.2 MPE COMPLIANCE REQUIREMENT

3.2.1 Limits

According to §1.1307(b)(1), system operating under the provisions of this section shall be operating in a manner that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure.

Limits for Occupational / Controlled Exposure

Frequency range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm²)	Averaging Times E ², H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f)*	6
30-300	61.4	0.163	1.0	6
300-1500	1	1	F/300	6
1500-100000	1	1	5	6

Limits for General Population / Uncontrolled Exposure

annie iei General i Spalatien, Gilconti Gilca Expeditio								
Frequency range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm²)	Averaging Times E ² , H ² or S (minutes)				
0.3-1.34	614	1.63	(100)*	30				
1.34-30	824/f	2.19/f	(180/f)*	30				
30-300	27.5	0.073	0.2	30				
300-1500	1	1	F/1500	30				
1500-100000	1	1	1	30				

Note: f = frequency in MHz: * = Plane-wave equivalents power density.

3.2.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

3.3 MPE CALCULATION METHOD

 $S = PG/4\pi R^2 = EIRP/4\pi R^2$

S = power density (in appropriate units, e.g., mw/cm2)

P = power input to the antenna (in appropriate units, e.g., mw)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor is normally numeric gain.

R = distance to the center of radiation of the antenna (in appropriate units, e.g., cm)

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3.4 MPE CALCULATION RESULTS

Note: For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

3.4.1 For WLAN

For Wi-Fi function, operating at 2412MHz to 2462 MHz for IEEE802.11b/g/n and operating at 5150 MHz to 5250 MHz for IEEE802.11a/n/ac and operating at 5250 MHz to 5350 MHz for IEEE802.11a/n/ac and operating at 5470 MHz to 5725 MHz for IEEE802.11a/n/ac and operating at 5725 MHz to 5850 MHz for IEEE802.11a/n/ac.

3.4.1.1 Antenna Type:

Chain 0: PCB Antenna

3.4.1.2 Antenna Gain:

Chain 0: 2412MHz to 2462 MHz: 1.5 dBi

5150 MHz to 5250 MHz: 1.9 dBi 5250 MHz to 5350 MHz: 1.9 dBi 5470 MHz to 5725 MHz: 1.9 dBi 5725 MHz to 5850 MHz: 1.9 dBi

3.4.1.3 Results for WLAN

	Operating Mode	Freq.	Declared maximum conducted average output power	Max. positive tolerance according manufacturer	Antenna Gain	Calculated maximum EIRP	Declared maximum EIRP	MPE Limit	MPE Value
		(MHz)	(d	Bm)	(dBi)	(dBm)	(mW)	(mw	/cm²)
	IEEE 802.11b	2412	16	1.5	1.5	19	79.4328	1	0.0158
	IEEE 802.110	2437	16	1.5	1.5	19	79.4328	1	0.0158
	1222 002.119	2462	16	1.5	1.5	19	79.4328	1	0.0158
		2412	12	1.5	1.5	15	31.6228	1	0.0063
	IEEE 802.11n	2437	12	1.5	1.5	15	31.6228	1	0.0063
		2462	12	1.5	1.5	15	31.6228	1	0.0063
		2422	12	1.5	1.5	15	31.6228	1	0.0063
	IEEE 802.11n-HT40	2437	12	1.5	1.5	15	31.6228	1	0.0063
		2452	12	1.5	1.5	15	31.6228	1	0.0063
		5180	13	1.5	1.9	16.4	43.6516	1	0.0087
		5220	13	1.5	1.9	16.4	43.6516	1	0.0087
<u></u>		5240	13	1.5	1.9	16.4	43.6516	1	0.0087
ha		5260	13	1.5	1.9	16.4	43.6516	1	0.0087
Chain 0		5300	13	1.5	1.9	16.4	43.6516	1	0.0087
Γ	IEEE 802.11a	5320	13	1.5	1.9	16.4	43.6516	1	0.0087
	ILLE 002.11a	5500	13	1.5	1.9	16.4	43.6516	1	0.0087
		5580	13	1.5	1.9	16.4	43.6516	1	0.0087
		5700	13	1.5	1.9	16.4	43.6516	1	0.0087
		5745	13	1.5	1.9	16.4	43.6516	1	0.0087
		5785	13	1.5	1.9	16.4	43.6516	1	0.0087
		5825	13	1.5	1.9	16.4	43.6516	1	0.0087
		5180	12	1.5	1.9	15.4	34.6737	1	0.0069
	IEEE 802.11n-HT20	5220	12	1.5	1.9	15.4	34.6737	1	0.0069
	IEEE 802.11ac-	5240	12	1.5	1.9	15.4	34.6737	1	0.0069
	VHT20	5260	12	1.5	1.9	15.4	34.6737	1	0.0069
		5300	12	1.5	1.9	15.4	34.6737	1	0.0069



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	Operating Mode	Freq.	Declared maximum conducted average output power	Max. positive tolerance according manufacturer	Antenna Gain	Calculated maximum EIRP	Declared maximum EIRP	MPE Limit	MPE Value
		(MHz)	(d	Bm)	(dBi)	(dBm)	(mW)	(mw	/cm²)
		5320	12	1.5	1.9	15.4	34.6737	1	0.0069
		5500	12	1.5	1.9	15.4	34.6737	1	0.0069
		5580	12	1.5	1.9	15.4	34.6737	1	0.0069
		5700	12	1.5	1.9	15.4	34.6737	1	0.0069
		5745	12	1.5	1.9	15.4	34.6737	1	0.0069
		5785	12	1.5	1.9	15.4	34.6737	1	0.0069
		5825	12	1.5	1.9	15.4	34.6737	1	0.0069
		5190	9	1.5	1.9	12.4	17.3780	1	0.0035
		5230	9	1.5	1.9	12.4	17.3780	1	0.0035
		5270	9	1.5	1.9	12.4	17.3780	1	0.0035
	IEEE 802.11n-HT40	5310	9	1.5	1.9	12.4	17.3780	1	0.0035
	IEEE 802.11ac-	5510	9	1.5	1.9	12.4	17.3780	1	0.0035
	VHT40	5550	9	1.5	1.9	12.4	17.3780	1	0.0035
		5670	9	1.5	1.9	12.4	17.3780	1	0.0035
		5755	9	1.5	1.9	12.4	17.3780	1	0.0035
		5795	9	1.5	1.9	12.4	17.3780	1	0.0035
	1555 000 44	5230	9	1.5	1.9	12.4	17.3780	1	0.0035
		5290	9	1.5	1.9	12.4	17.3780	1	0.0035
	IEEE 802.11ac- VHT80	5530	9	1.5	1.9	12.4	17.3780	1	0.0035
	V11100	5610	9	1.5	1.9	12.4	17.3780	1	0.0035
		5775	9	1.5	1.9	12.4	17.3780	1	0.0035

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3.4.2 For BT

For BT_LE function, operating at 2402MHz to 2480 MHz for GFSK and For BT_EDR function, operating at 2402MHz to 2480 MHz for GFSK, $\pi/4$ DQPSK, 8DPSK

3.4.2.1 Antenna Type:

Chain 0: Integral Antenna

3.4.2.2 Antenna Gain:

Chain 0: 2402MHz to 2480 MHz: 1.5 dBi

3.4.2.3 Results for BT

Operating Mode	Freq.	Declared maximum conducted average output power	Max. positive tolerance according manufacturer	Antenna Gain	Calculated maximum EIRP	Declared maximum EIRP	MPE Limit	MPE Value
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(mW)	(mw/	cm²)
	2402	7	1	1.5	9.5	8.9125	1	0.9982
LE	2440	7	1	1.5	9.5	8.9125	1	0.9982
	2480	7	1	1.5	9.5	8.9125	1	0.9982
	2402	10	1	1.5	12.5	17.7828	1	0.9965
EDR	2441	10	1	1.5	12.5	17.7828	1	0.9965
	2480	10	1	1.5	12.5	17.7828	1	0.9965

3.4.3 Simultaneous Multi-band Transmission MPE Analysis

3.4.4.1 List of Mode for Simultaneous Multi-band Transmission

No.	Configurations	Support/Not Support
1	2.4G_WLAN + BT	Not Support
2	5G_ WLAN + BT	Not Support
3	5G _WLAN + 2.4G_WLAN	Not Support

3.4.4.2 Results for transmit simultaneously

Not Applicable



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APPENDIX 2 PHOTOS OF EUT CONSTRUCTIONAL DETAILS Refer to Appendix 2 for EUT external and internal photos. *** End of Report *** The test report is effective only with both signature and specialized stamp. The result(s) shown in this report refer only to the sample(s) tested. Without written approval of UnionTrust, this report can't be reproduced except in full.