

# **Partial FCC Test Report**

Report No.: RFBHAA-WTW-P21080670-3 R1

FCC ID: UJH-R1LOW

Model: R1LOW (refer to item 3.1 for more details)

Received Date: Aug. 17, 2021

Test Date: Sep. 03, 2021

**Issued Date:** Nov. 18, 2021

Applicant: Mitsubishi Electric Corporation Sanda Works

Address: 2-3-33 Miwa, Sanda-City, Hyogo 669-1513, Japan

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

Lin Kou Laboratories

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33383, Taiwan

FCC Registration /

**Designation Number:** 788550 / TW0003





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## **Release Control Record**

Issue No.	Description	Date Issued
RFBHAA-WTW-P21080670-3	Original release	Oct. 08, 2021
RFBHAA-WTW-P21080670-3 R1	Modify the description of Note 1 on page 6	Nov. 18, 2021

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## 1 Certificate of Conformity

**Product:** Display Audio

Brand: Mitsubishi Electric

Model: R1LOW (refer to item 3.1 for more details)

Sample Status: DV

Applicant: Mitsubishi Electric Corporation Sanda Works

Test Date: Sep. 03, 2021

**Standards:** 47 CFR FCC Part 15, Subpart C (Section 15.247)

ANSI C63.10:2013

This report is issued as a supplementary report of RFBHAA-WTW-P20080145-2. This report shall be used combined together with its original report.

Prepared by: \_\_\_\_\_\_, Date: \_\_\_\_\_, Nov. 18, 2021

Pettie Chen / Senior Specialist

Jeremy Lin / Senior Engineer

Note: Radiated Emissions test (Frequency range 30MHz~1GHz) is performed for the addendum. Refer to original report for the other test data.



## 2 Summary of Test Results

47 CFR FCC Part 15, Subpart C (Section 15.247)						
FCC Clause	Test Item	Result	Remarks			
15.205 / 15.209 / 15.247(d)	Radiated Emissions and Band Edge Measurement	Pass	Meet the requirement of limit.  Minimum passing margin is -2.2dB at 30.00MHz.			

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

## 2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
	9kHz ~ 30MHz	3.04 dB
Radiated Emissions up to 1 GHz	30MHz ~ 200MHz	3.59 dB
	200MHz ~1000MHz	3.60 dB

## 2.2 Modification Record

There were no modifications required for compliance.



### 3 General Information

## 3.1 General Description of EUT

Product	Display Audio
Brand	Mitsubishi Electric
Test Model	R1LOW (refer to note for more details)
Sample Status	DV
Nominal Voltage	12.6Vdc
Modulation Type	GFSK, $\pi$ /4-DQPSK, 8DPSK
Modulation Technology	FHSS
Transfer Rate	1/2/3Mbps
Operating Frequency	2402~2480MHz
Number of Channel	79
Output Power	0.832mW
Antenna Type	Refer to note
Antenna Connector	Refer to note
Accessory Device	2m non-shielded DC power cable without core
Cable Supplied	0.5m shielded USB cable with 2 cores

### Note:

1. This report is prepared for FCC class II permissive change. This report is issued as a supplementary report of BV CPS report no.: RFBHAA-WTW-P20080145-2. Difference compared with the original report is adding series models. The worst degradation for the permissive change was found in the radiated emission (Frequency range 30MHz~1GHz) and the results were recorded in this report.

2. The following models with different panel size are provided to this EUT. (New models are marked in boldface)

z. The following models with t	illerent panel size are	provided to this EOT. (New models are marked in boldlace)
Brand	Model	Description
		No. 12 (7" ICS Panel), 16GB
		No. 45 (7"n-ICS Panel)
		No. 35 (8.4" AWS Panel and Sirius(GPS))
	R1LOW	No. 38 (8.4" AWS Panel and DAB/FM2)
		No. 13 (8.4" ICS Panel), 32GB
Mitsubishi Electric		No. 36 (8.4" AWS Panel): 2USB
WIRSUDISTIL ETECTIC		No. 14 (8.4" ICS Panel), 32GB
		No. 40 (8.4" ICS Panel), 16GB
		No. 42 (7" ICS w/Bezel Panel)
		No. 61 (7"n-ICS Panel), 16GB, digital camera
		No. 62 (8.4" ICS Panel), 32GB, digital camera
	R1LOW-CN1	No. 31 (8.4" AWS Panel)

3. There two modules are collocated in the EUT.

Module No.	Function
1	WLAN 2.4GHz, 5GHz, BT EDR, BT LE (1M)
2	BT LE (1M, 2M)



4. The EUT uses following antennas.

Туре	Sheet metal antenna				
Connecter	RF Receptacle Connector				
Model	2342	059-1	2342059-2		
Frequency (MHz)	2400-2500 5150-5850		2400-2500	5150-5850	
Gain (dBi)	3	2	1	4	

<sup>5.</sup> The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

# 3.2 Description of Test Modes

79 channels are provided to this EUT:

Channel	Freq. (MHz)						
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461		



## 3.2.1 Test Mode Applicability and Tested Channel Detail

EUT CONFIGURE	APPLICABLE TO	DESCRIPTION	
MODE	RE<1G	DESCRIPTION	
Α	V	EUT: No. 61	
В	√	EUT: No. 62	

Where **RE<1G**: Radiated Emission below 1GHz

## Radiated Emission Test (Below 1GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Pakcet Type	Remark
A, B	0 to 78	78	FHSS	8DPSK	3DH5	-

### **Test Condition:**

Applicable to Environmental Conditions		Input Power	Tested by	
RE<1G	22 deg. C, 66% RH	12.6Vdc	Raymond Lee	

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## 3.3 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
Α.	Battery	YUASA	75D23R-CMF II	NA	NA	-
B.	Fixture Board	NA	NA	NA	NA	Provided by client

Note:

<sup>1.</sup> All power cords of the above support units are non-shielded (1.8m).

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	DC power cable	1	2	N	0	Accessory
2.	USB cable	1	0.5	Υ	2	Accessory
3.	Harness cable	1	2	N	0	Provided by client

## 3.3.1 Configuration of System under Test



## 3.4 General Description of Applied Standards and References

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards and References:

#### **Test Standard:**

## **FCC Part 15, Subpart C (15.247)**

ANSI C63.10:2013

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

### **References Test Guidance:**

### KDB 558074 D01 15.247 Meas Guidance v05r02

All test items have been performed as a reference to the above KDB test guidance.

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## 4 Test Types and Results

## 4.1 Radiated Emission and Bandedge Measurement

## 4.1.1 Limits of Radiated Emission and Bandedge Measurement

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20dB below the highest level of the desired power:

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

### Note:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

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## 4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver KEYSIGHT	N9038A	MY55420137	Apr. 09, 2021	Apr. 08, 2022
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100039	Jun. 10, 2021	Jun. 09, 2022
BILOG Antenna SCHWARZBECK	VULB9168	9168-160	Nov. 06, 2020	Nov. 05, 2021
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-1169	Nov. 22, 2020	Nov. 21, 2021
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Nov. 22, 2020	Nov. 21, 2021
Preamplifier Agilent (Below 1GHz)	8447D	2944A10638	Jun. 05, 2021	Jun. 04, 2022
Preamplifier Agilent (Above 1GHz)	8449B	3008A02367	Feb. 17, 2021	Feb. 16, 2022
RF signal cable HUBER+SUHNER&EMCI	SUCOFLEX 104 & EMC104-SM-SM8000	CABLE-CH9-02 (248780+171006)	Jan. 16, 2021	Jan. 15, 2022
RF signal cable HUBER+SUHNER	SUCOFLEX 104	CABLE-CH9- (250795/4)	Jan. 16, 2021	Jan. 15, 2022
RF signal cable Woken	8D-FB	Cable-CH9-01	Jun. 05, 2021	Jun. 04, 2022
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	NA	NA	NA
Antenna Tower &Turn BV ADT	AT100	AT93021705	NA	NA
Turn Table BV ADT	TT100	TT93021705	NA	NA
Turn Table Controller BV ADT	SC100	SC93021705	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The test was performed in HwaYa Chamber 9.



#### 4.1.3 Test Procedures

### For Radiated emission below 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

#### Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

#### For Radiated emission above 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

#### Note:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98%) or 10Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz. (RBW = 1 MHz, VBW = 1 kHz)
- 4. All modes of operation were investigated and the worst-case emissions are reported.

## 4.1.4 Deviation from Test Standard

No deviation.

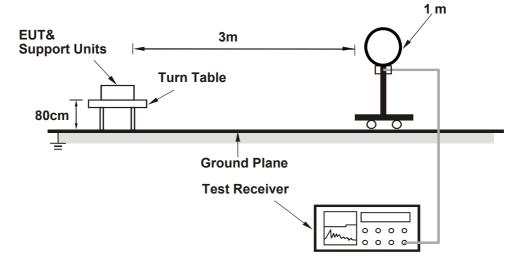
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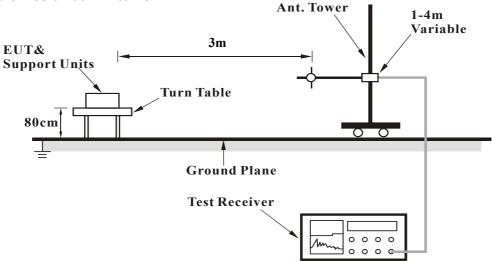


## 4.1.5 Test Setup

## For Radiated emission below 30MHz



## For Radiated emission 30MHz to 1GHz



## 4.1.6 EUT Operating Conditions

a. Set the EUT under transmission condition continuously at specific channel frequency.



### 4.1.7 Test Results

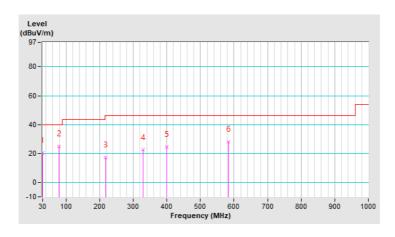
Below 1GHz worst-case data:

## 8DPSK

CHANNEL	TX Channel 78	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz	TEST MODE	A

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M											
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)				
1	30.00	20.3 QP	40.0	-19.7	1.50 H	63	39.8	-19.5				
2	78.50	24.7 QP	40.0	-15.3	1.00 H	152	47.4	-22.7				
3	218.18	17.0 QP	46.0	-29.0	1.50 H	211	38.7	-21.7				
4	328.76	22.4 QP	46.0	-23.6	1.00 H	78	39.3	-16.9				
5	400.54	24.3 QP	46.0	-21.7	2.00 H	337	39.7	-15.4				
6	582.90	28.2 QP	46.0	-17.8	1.00 H	268	39.3	-11.1				

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
- 4. Margin value = Emission Level Limit value
- 5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20dB below the permissible value to be report.

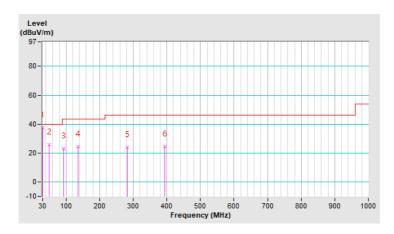




CHANNEL	TX Channel 78	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz	TEST MODE	Α

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M												
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)					
1	33.88	24.6 QP	40.0	-15.4	1.00 V	132	43.9	-19.3					
2	64.92	19.4 QP	40.0	-20.6	1.00 V	202	39.2	-19.8					
3	128.94	20.6 QP	43.5	-22.9	2.00 V	109	40.3	-19.7					
4	249.22	19.1 QP	46.0	-26.9	1.00 V	329	38.7	-19.6					
5	317.12	22.2 QP	46.0	-23.8	1.50 V	155	39.5	-17.3					
6	499.48	26.1 QP	46.0	-19.9	2.00 V	321	39.3	-13.2					

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
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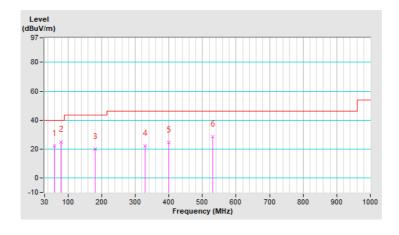




CHANNEL	TX Channel 78	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz	TEST MODE	В

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M											
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)				
1	59.10	22.3 QP	40.0	-17.7	1.50 H	80	41.1	-18.8				
2	78.50	24.7 QP	40.0	-15.3	1.00 H	152	47.4	-22.7				
3	181.32	19.9 QP	43.5	-23.6	1.00 H	10	39.9	-20.0				
4	328.76	22.4 QP	46.0	-23.6	2.00 H	78	39.3	-16.9				
5	400.54	24.3 QP	46.0	-21.7	1.50 H	337	39.7	-15.4				
6	530.52	28.5 QP	46.0	-17.5	1.00 H	121	41.0	-12.5				

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
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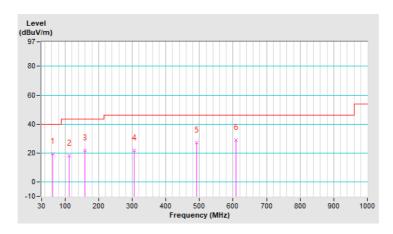




CHANNEL	TX Channel 78	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz	TEST MODE	В

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M												
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)					
1	62.98	19.5 QP	40.0	-20.5	1.00 V	300	38.6	-19.1					
2	111.48	18.1 QP	43.5	-25.4	1.00 V	4	39.5	-21.4					
3	159.98	21.6 QP	43.5	-21.9	1.50 V	266	40.0	-18.4					
4	305.48	21.7 QP	46.0	-24.3	1.00 V	234	39.4	-17.7					
5	491.72	27.0 QP	46.0	-19.0	1.00 V	192	40.2	-13.2					
6	608.12	28.9 QP	46.0	-17.1	1.50 V	329	39.4	-10.5					

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
- 4. Margin value = Emission Level Limit value
- 5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20dB below the permissible value to be report.





5 Pictures of Test Arrangements	
Please refer to the attached file (Test Setup Photo).	

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## Appendix - Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Lin Kou EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-3-6668565

Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab

Tel: 886-3-3183232 Fax: 886-3-3270892

Email: <a href="mailto:service.adt@tw.bureauveritas.com">service.adt@tw.bureauveritas.com</a>
Web Site: <a href="mailto:www.bureauveritas-adt.com">www.bureauveritas-adt.com</a>

The address and road map of all our labs can be found in our web site also.

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