



Report Number: 13603567-E3V2  
Issue Date: 2021/03/29  
Product Name: WIRELESS DEVICE  
Model Number: E1913  
FCC ID: FHO-E1913

# Electromagnetic Compatibility Test Report

For

**IKEA OF SWEDEN AB  
BOX 702  
SE-343 81, ÄLMHULT, SWEDEN**



NVLAP Lab code: 200065-0

Copyright © 2021 UL LLC

UL Verification Services Inc. authorizes the above-named company to reproduce this Report provided it is reproduced in its entirety.

## Test Report Details

Tests Performed By: UL VERIFICATION SERVICES INC.  
47173 BENICIA STREET  
FREMONT, CA 94538, U.S.A.

Tests Performed For: IKEA OF SWEDEN AB  
BOX 702  
SE-343 81, ÄLMHULT, SWEDEN

Issue Date: 2021/03/29

Product Name: WIRELESS DEVICE

Model Number Tested: E1913

Sample Serial Number: 542A1B5013128

Applicable Standards: FCC 47 CFR PART 15 SUBPART B  
ICES-003 ISSUE 7:2020

Date Test Item Received: 2021/03/02

Testing Start Date: 2021/03/02

Date Testing Complete: 2021/03/02

**Overall Results:** **Compliant**

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of the U.S. government.

\*This report contains data that are not covered by the NVLAP or A2LA accreditation. The scope of accreditation is limited to the specific tests that are listed on the NVLAP and/or A2LA websites referenced at the end of this report.

## Report Directory

1.0	SUMMARY .....	5
1.1	Deviations from standard test methods .....	5
1.2	Device Modifications Necessary for Compliance .....	5
1.3	Applicable Standards .....	5
1.4	Summary of Tests .....	6
2.0	DECISION RULES AND MEASUREMENT UNCERTAINTY .....	7
2.1	Metrological Traceability .....	7
2.2	Decision Rules .....	7
2.3	Measurement Uncertainty .....	7
2.4	Sample Calculation .....	7
3.0	GENERAL - Product Description .....	8
3.1	Equipment Description .....	8
3.2	Equipment Marking Plate .....	8
3.3	Device Configuration During Test .....	9
3.3.1	Equipment Used During Test: .....	9
3.3.2	Input/Output Ports: .....	9
3.3.3	EUT Internal Operating Frequencies: .....	10
3.3.4	Power Interface: .....	10
3.3.5	Software and Firmware .....	10
3.4	Block Diagram: .....	10
3.5	EUT Configurations .....	11
3.6	EUT Operation Modes .....	11
3.7	Rationale for EUT Configurations .....	11
3.8	Rationale for EUT Mode of Operation .....	11
4.0	APPLICABLE EMISSIONS LIMITS AND TEST RESULTS .....	12
4.1	Test Conditions and Results - MAINS TERMINAL - CONDUCTED EMISSIONS .....	12
4.2	Test Conditions and Results - RADIATED EMISSIONS .....	16
5.0	SETUP PHOTOS .....	26
Appendix A .....		29
Facilities, Accreditations and Authorizations .....		29

**Report Revision History**

<b>Revision Date</b>	<b>Revision Version</b>	<b>Description</b>	<b>Revised By</b>	<b>Revision Reviewed By</b>
2021/03/10	V1	Initial Issue	-	Dan Corona
2021/03/29	V2	Updated Page 16 to address TCB's question	Tina Chu	Dan Corona

**1.0 SUMMARY**

All tests were performed in accordance with ANSI C63.4:2014, ICES-003 ISSUE 7:2020.

**1.1 Deviations from standard test methods**

None
------

**1.2 Device Modifications Necessary for Compliance**

None
------

**1.3 Applicable Standards**

Standard
FCC 47 CFR PART 15 SUBPART B
ICES-003 ISSUE 7:2020

**1.4 Summary of Tests**

This product is considered Class B

Requirement – Tests	Result (Compliant / Non-Compliant)
CONDUCTED EMISSIONS	Complies
RADIATED EMISSIONS	Complies

Approved & Released For

UL Verification Services Inc. By:

Prepared By:

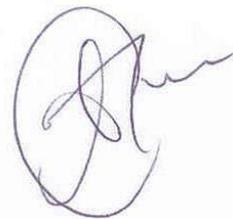



Dan Corona  
 Operations Leader  
 Consumer Technology Division  
 UL Verification Services Inc.

Eduardo Rodriguez  
 Test Engineer  
 Consumer Technology Division  
 UL Verification Services Inc.

Reviewed By:

:



Tina Chu  
 Senior Project Engineer  
 Consumer Technology Division  
 UL Verification Services Inc.

## 2.0 DECISION RULES AND MEASUREMENT UNCERTAINTY

### 2.1 Metrological Traceability

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, with a maximum time between calibrations of one year or the manufacturers' recommendation, whichever is less, and where applicable is traceable to recognized national standards

### 2.2 Decision Rules

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4: 2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement).

### 2.3 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	U <sub>lab</sub>
Worst Case Conducted Disturbance, 9KHz to 0.15 MHz	3.78 dB
Worst Case Conducted Disturbance, 0.15 to 30 MHz	3.40 dB
Worst Case Radiated Disturbance, 9KHz to 30 MHz	2.84 dB
Worst Case Radiated Disturbance, 30 to 1000 MHz	6.01 dB
Worst Case Radiated Disturbance, 1000 to 18000 MHz	4.73 dB
Worst Case Radiated Disturbance, 18000 to 26000 MHz	4.51 dB
Worst Case Radiated Disturbance, 26000 to 40000 MHz	5.29 dB

Uncertainty figures are valid to a confidence level of 95%.

### 2.4 Sample Calculation

#### **RADIATED EMISSIONS**

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)

$$36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} = 28.9 \text{ dBuV/m}$$

#### **MAINS CONDUCTED EMISSIONS**

Where relevant, the following sample calculation is provided:

Final Voltage (dBuV) = Measured Voltage (dBuV) + Cable Loss (dB) + Limiter Factor (dB) + LISN Insertion Loss.

$$36.5 \text{ dBuV} + 0 \text{ dB} + 10.1 \text{ dB} + 0 \text{ dB} = 46.6 \text{ dBuV}$$

### 3.0 GENERAL - Product Description

#### 3.1 Equipment Description

EUT is a wireless device contains a certified module FCC ID: FHO-920-00632, IC: 10912A-92000632.

#### 3.2 Equipment Marking Plate

Not available.

**3.3 Device Configuration During Test**

**3.3.1 Equipment Used During Test:**

Use	Product Type	Manufacturer	Model	Comments
EUT	Wireless Device	IKEA	E1913	None
AE	Router	ASUS	RT-AC68U	Outside the chamber in the control room during radiated emission test.
AE	Laptop	Lenovo	20BX001MUS	Outside the chamber in the control room during radiated emission test.

Note: EUT - Equipment Under Test, AE - Auxiliary/Associated Equipment, or SIM - Simulator (Not Subjected to Test)

**3.3.2 Input/Output Ports:**

Port #	Name	Type*	Cable Max. >3m (Y/N)	Cable Shielded (Y/N)	Comments
0	Enclosure	N/E	—	—	None
1	Mains	AC	Y	N	None
1	Router adapter	DC	N	N	None
1	Laptop adapter	DC	N	N	None
1	RJ45	I/O	Y	Y	Radiated emission test. EUT to router
1	RJ45	I/O	N	N	AC Power Line conducted emission test. EUT to router
1	RJ45	I/O	N	N	Connected to external network
1	RJ45	I/O	N	N	Router to laptop

\*Note:  
 AC = AC Power Port      DC = DC Power Port      N/E = Non-Electrical  
 I/O = Signal Input or Output Port (Not Involved in Process Control)  
 TP = Telecommunication Ports

**3.3.3 EUT Internal Operating Frequencies:**

Frequency (MHz)	Description
5825	Highest operating frequency

**3.3.4 Power Interface:**

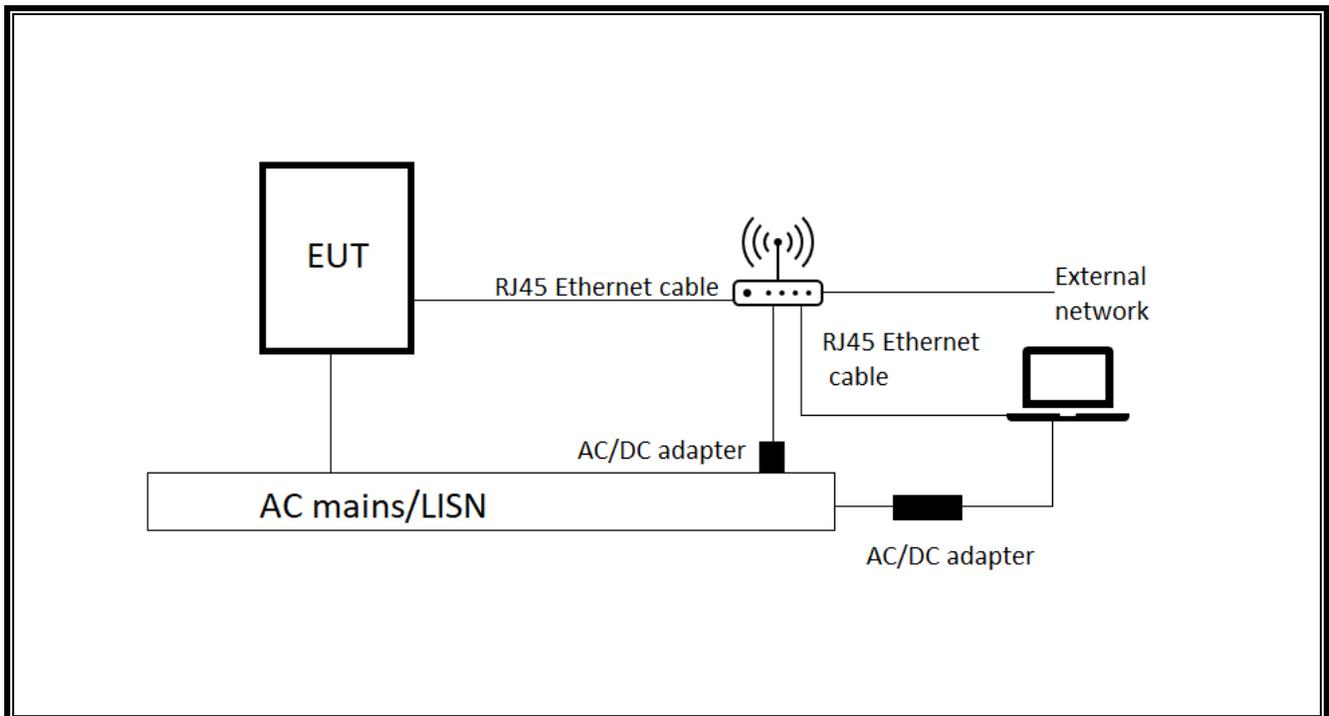
Mode # /Rated	Voltage (V)	Current (A)	Power (W)	Frequency (DC/AC-Hz)	Phases (#)	Comments
Rated	100-240	1	120	50/60	Single	
1	120 Vac	-	-	60Hz	Single	

**3.3.5 Software and Firmware**

Software version is: 20.0f1. The software is: Sonos GUI.

**3.4 Block Diagram:**

The diagram below illustrates the configuration of the equipment above.



Note:  
The router and laptop were set outside the chamber in the control room during radiated emission test.

**3.5 EUT Configurations**

<b>Configuration #</b>	<b>Description</b>
1	The EUT was configured as countertop device. RJ45 port of EUT is terminated with ethernet cable which was connected to a router. The router connected with a laptop and to an external network via ethernet cables.

**3.6 EUT Operation Modes**

<b>Mode of Operation#</b>	<b>Description</b>
1	EUT was powered on and playing music as normal operating mode. EUT and router was communicating via RJ45 port, Wi-Fi is on idle mode.

**3.7 Rationale for EUT Configurations**

<b>Configuration #</b>	<b>Description</b>
1	The selected EUT configuration was chosen to maximize emissions.

**3.8 Rationale for EUT Mode of Operation**

<b>Mode of Operation #</b>	<b>Description</b>
1	The selected EUT mode of operation was chosen to maximize emissions.

**4.0 APPLICABLE EMISSIONS LIMITS AND TEST RESULTS****4.1 Test Conditions and Results - MAINS TERMINAL - CONDUCTED EMISSIONS**

Test Description	Measurements were made on a ground plane. All powers were connected to the system through Artificial Mains Network (AMN). Conducted voltage measurements on mains lines were made at the output of the AMN.	
Test Standards	ANSI C63.4-2014 ICES-003 ISSUE 7:2020	
Test Engineer	19498 ER	
Test Date	2021/03/02	
Laboratory Parameters	Required prior to the test	During the test
Ambient Temperature	10 to 40 °C	22.7°C
Humidity	10 % to 90 %	30 %
	Frequency range on each side of line	Measurement Point
Fully configured sample scanned over the following frequency range	150kHz to 30MHz	Mains
<b>Limits - Class B</b>		
Frequency (MHz)	Limit (dB $\mu$ V)	
	Quasi-Peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50
Supplementary information: None		

**Conducted Emissions EUT Configuration Settings**

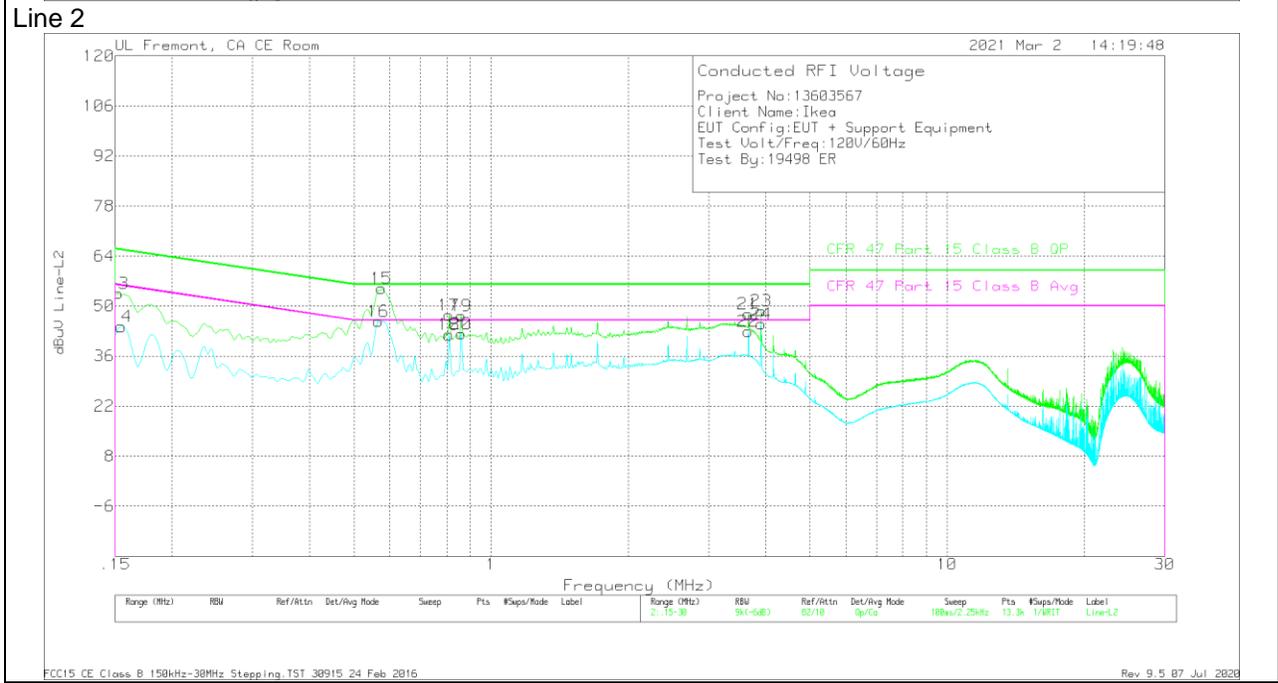
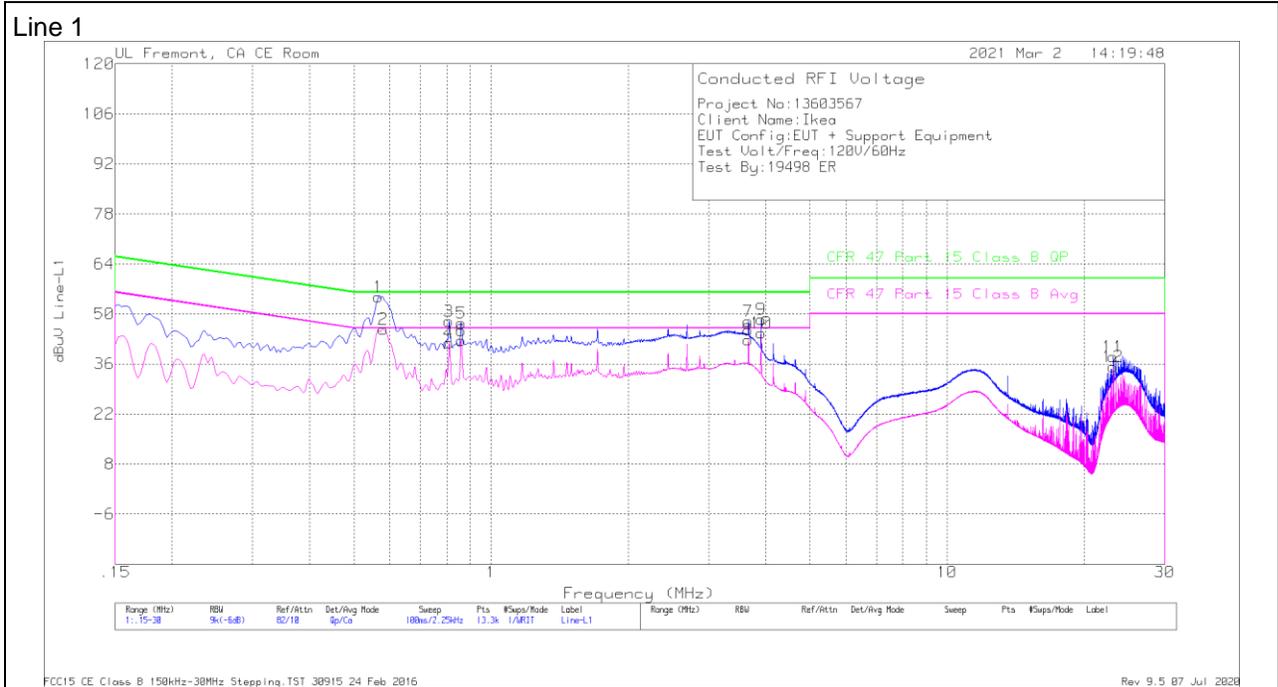
Power Interface #	EUT Configurations #	EUT Mode of Operation#
1	1	1
Supplementary information: None		

**Conducted Emissions Test Equipment**

Test Equipment List					
Description	Manufacturer	Model	Local ID (T No.)	Cal Date	Cal Due
LISN	Fischer Custom Communications, Inc	FCC-LISN-50/250-25-2-01-480V	PRE0186446	2021/01/20	2022/01/20
LISN	FCC INC.	FCC LISN 50/250	T24	2021/01/20	2022/01/20
EMI Test receiver 9kHz – 3.6GHz	Rohde & Schwarz	ESR3	T1436	2021/02/19	2022/02/19
Transient Limiter	COM-POWER	LIT-930A	PRE0129246	2021/01/20	2022/01/20
AC Line Conducted Software	UL	UL MEC	Rev 9.5, July 07, 2020		

Results – 120 V, 60 Hz

Conducted Emissions Graph



**Conducted Emissions Data Points****Line-L1 .15 - 30MHz**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	PRE018644 6 L1	LC Cables C1&C3 dB	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av (CISPR) Margin (dB)
1	.56625	44.75	Qp	0	0	10.1	54.85	56	-1.15	-	-
2	.57975	35.66	Ca	0	0	10.1	45.76	-	-	46	-2.24
3	.80925	37.75	Qp	0	.1	10.1	47.95	56	-8.05	-	-
4	.80925	31.71	Ca	0	.1	10.1	41.91	-	-	46	-4.09
5	.861	37.3	Qp	0	.1	10.1	47.5	56	-8.5	-	-
6	.861	32.38	Ca	0	.1	10.1	42.58	-	-	46	-3.42
7	3.66675	37.63	Qp	0	.1	10.2	47.93	56	-8.07	-	-
8	3.66675	32.52	Ca	0	.1	10.2	42.82	-	-	46	-3.18
9	3.912	38.22	Qp	0	.1	10.2	48.52	56	-7.48	-	-
10	3.912	34.37	Ca	0	.1	10.2	44.67	-	-	46	-1.33
11	23.12925	27.13	Qp	.1	.3	10.5	38.03	60	-21.97	-	-
12	23.12925	24.33	Ca	.1	.3	10.5	35.23	-	-	50	-14.77

**Line-L2 .15 - 30MHz**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	PRE018644 6 L2	LC Cables C2&C3 dB	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av (CISPR) Margin (dB)
13	.15225	43.52	Qp	0	0	10.1	53.62	65.88	-12.26	-	-
14	.1545	34.14	Ca	0	0	10.1	44.24	-	-	55.75	-11.51
15	.57525	44.94	Qp	0	0	10.1	55.04	56	-.96	-	-
16	.56625	35.63	Ca	0	0	10.1	45.73	-	-	46	-2.27
17	.80925	37.2	Qp	0	.1	10.1	47.4	56	-8.6	-	-
18	.80925	31.77	Ca	0	.1	10.1	41.97	-	-	46	-4.03
19	.861	37.03	Qp	0	.1	10.1	47.23	56	-8.77	-	-
20	.861	31.96	Ca	0	.1	10.1	42.16	-	-	46	-3.84
21	3.66675	37.57	Qp	0	.1	10.2	47.87	56	-8.13	-	-
22	3.66675	32.66	Ca	0	.1	10.2	42.96	-	-	46	-3.04
23	3.912	38.42	Qp	0	.1	10.2	48.72	56	-7.28	-	-
24	3.912	34.76	Ca	0	.1	10.2	45.06	-	-	46	-.94

Qp - Quasi-Peak detector

Ca - CISPR average detection

**4.2 Test Conditions and Results - RADIATED EMISSIONS**

Test Description	Measurements were made in a 3-meter/10-meter semi-anechoic chamber that complies to CISPR 16/ANSI C63.4. Preliminary (peak) measurements were performed at an antenna to EUT separation distance of 3 meter/10-meter. The EUT was rotated 360° about its azimuth with the receive antenna located at various heights in both horizontal and vertical polarities. Final measurements (quasi-peak or average as noted) were then performed by rotating the EUT 360° and adjusting the receive antenna height from 1 to 4-meters. All frequencies were investigated in both horizontal and vertical antenna polarity, where applicable.	
Test Standards	ANSI C63.4-2014	
Test Engineer	19498 ER	
Test Date	2021/03/02	
Laboratory Parameters	Required prior to the test	During the test
Ambient Temperature	10 to 40 °C	22.7°C
Humidity	10 % to 90 %	30 %
	Frequency range	Measurement Point
Fully configured sample scanned over the following frequency range	30MHz to 40GHz	3 Meter measurement distance
<b>Limits - Class B</b>		
Frequency (MHz)	Frequency (MHz)	
<b>FCC Limits for radiated disturbance of Class B ITE at measuring distance of 3 m</b>		
	Quasi-Peak	Average
30-88	40	NA
88-216	43.5	NA
216-960	46	NA
Above 960	54	NA
	Peak	Average
Above 1 GHz	74	54
<b>ISED Limits for radiated disturbance of Class B ITE at measuring distance of 3 m</b>		
	Quasi-Peak	NA
30-88	40	NA
88-216	43.5	NA
216-230	46	NA
230-960	47	NA
Above 960	54	NA
	Peak	Average
Above 1GHz	74	54
Supplementary information: None		

**Radiated Emissions EUT Configuration Settings**

Power Interface #	EUT Configurations #	EUT Mode of Operation#
1	1	1
Supplementary information: None		

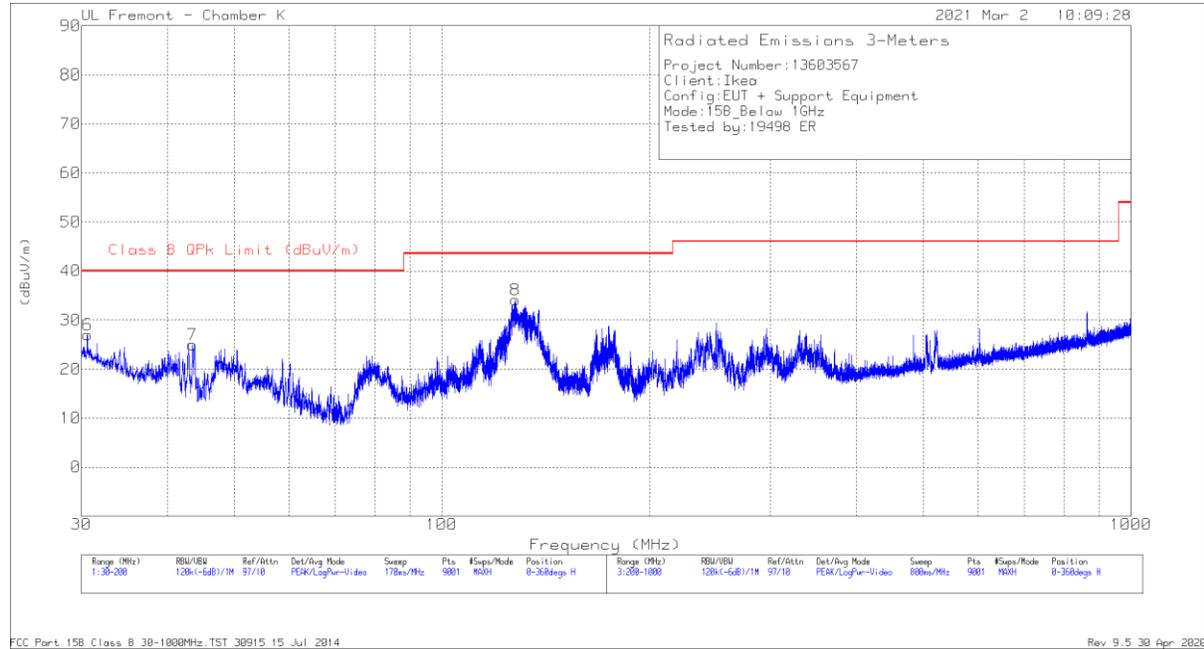
**Radiated Emissions Test Equipment**

Test Equipment List					
Description	Manufacturer	Model	Local ID (T No.)	Cal Date	Cal Due
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	PRE0179376	2020/04/03	2021/04/03
Amplifier, 9KHz to 1GHz, 32dB	SONOMA INSTRUMENT	310	175953	2021/01/21	2022/01/21
Antenna, Broadband Hybrid, 30MHz to 2000MHz	Sunol Sciences Corp.	JB3	T477 (81560)	2020/09/24	2021/09/24
Amplifier, 100MHz-18GHz	AMPLICAL	AMP0.1G18-47-20	PRE0197319	2020/05/04	2021/05/04
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	T863	2020/08/31	2021/08/31
Antenna Horn, 18 to 26GHz	ARA	SWH-28	T447	2020/05/20	2021/05/20
Rf Amplifier, 18-26.5GHz, 60dB gain	AMPLICAL	AMP18G26.5-60	171590	2020/06/07	2021/06/07
Antenna, Horn 26.5 to 40GHz	ARA	MWH-2640/B	T446	2020/09/24	2021/09/24
Rf Amplifier, 26-40GHz, 60dB gain	AMPLICAL	AMP26G40-60	PRE0181239	2020/06/07	2021/06/07
Radiated Software	UL	UL EMC	Rev 9.5, April 30, 2020		

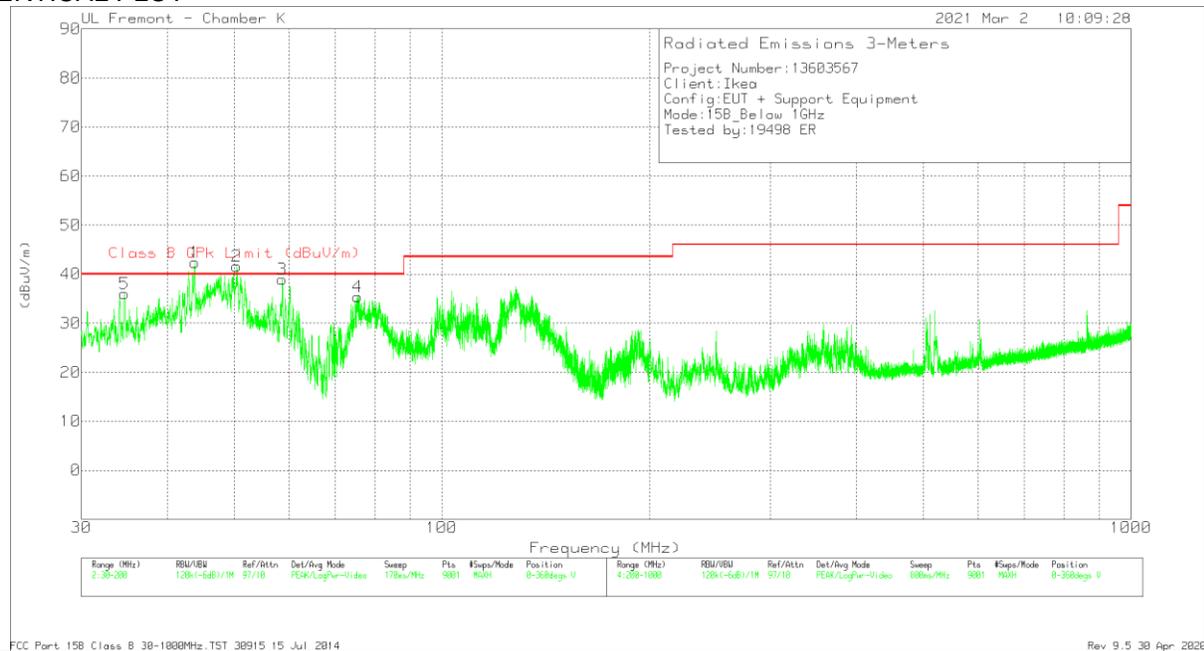
**RADIATED EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION)**

**Radiated Emissions Graph**

**HORIZONTAL PLOT**



**VERTICAL PLOT**



**Radiated Emissions Data Points**

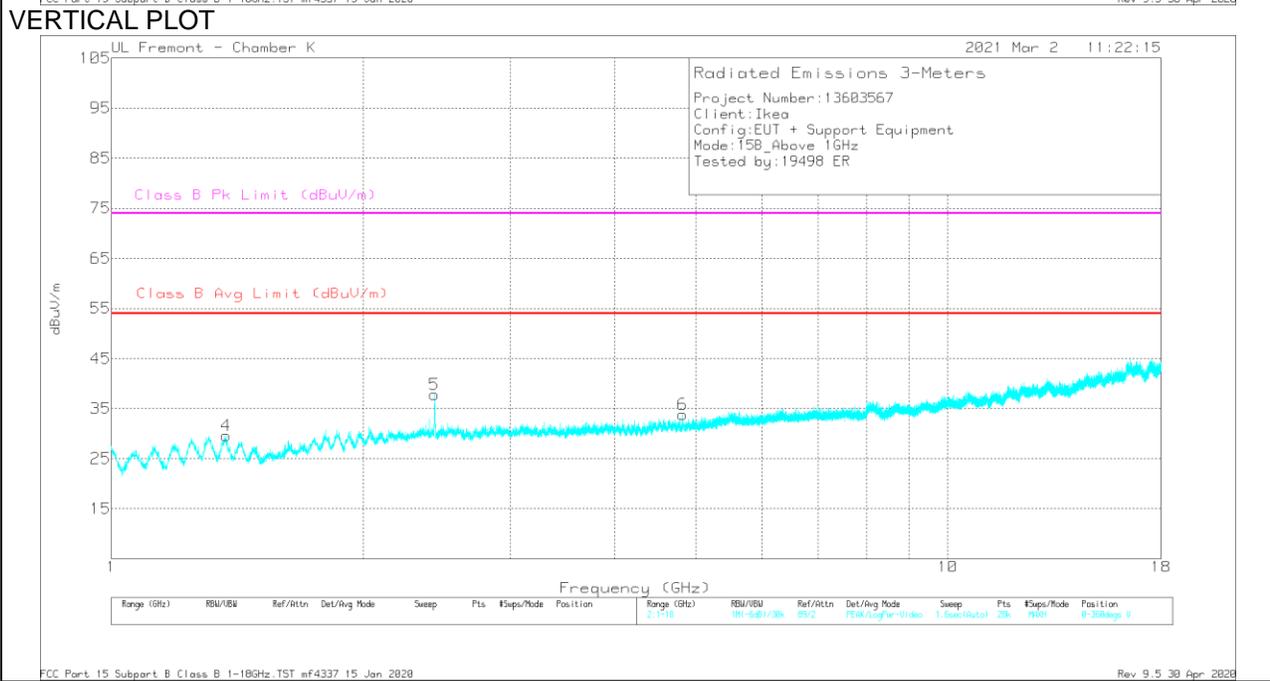
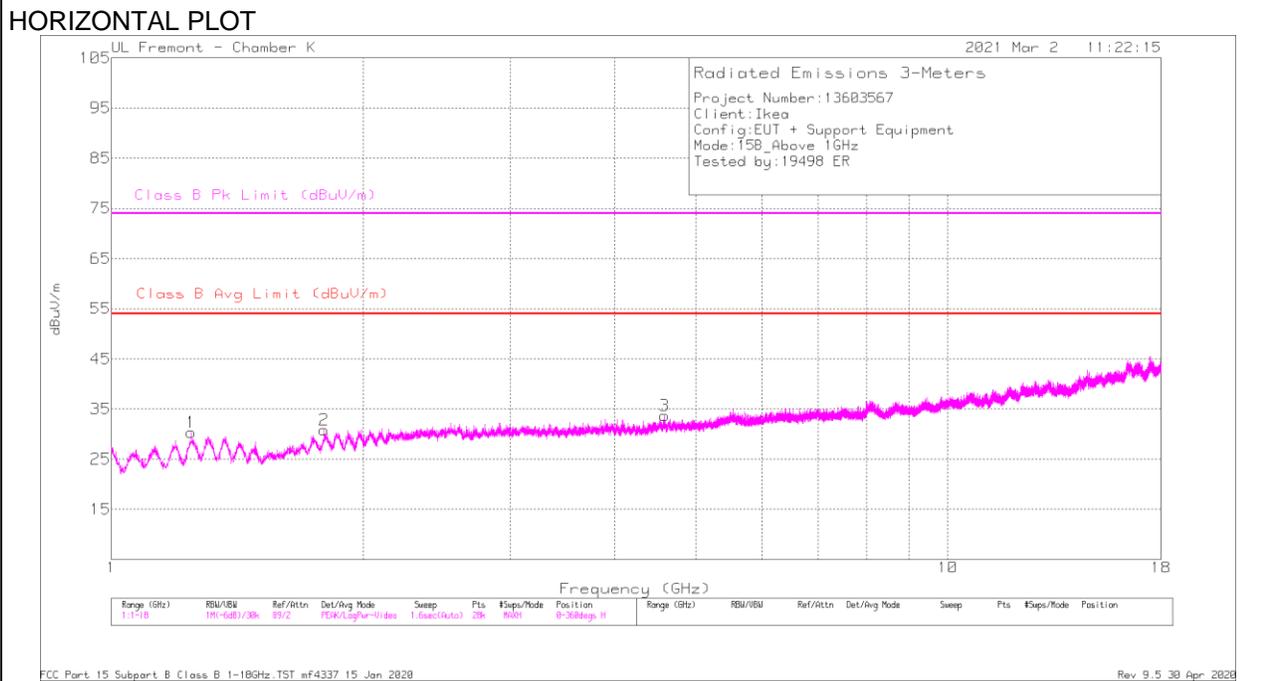
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF 81560 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Class B QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	30.6044	31.08	Pk	27.5	-31.6	26.98	40	-13.02	0-360	201	H
7	43.5056	38.62	Pk	17.8	-31.4	25.02	40	-14.98	0-360	401	H
8	128.015	44.87	Pk	19.9	-30.7	34.07	43.52	-9.45	0-360	201	H
1	43.789	56.22	Pk	17.6	-31.4	42.42	40	2.42	0-360	95	V
		53.59	Qp	15.1	-31.4	37.29	40	-2.71	263	95	V
2	50.419	58.51	Pk	14.4	-31.3	41.61	40	1.61	0-360	95	V
		55.5	Qp	14.4	-31.4	38.5	40	-1.5	222	98	V
3	58.7113	56.58	Pk	13.6	-31.2	38.98	40	-1.02	0-360	95	V
		54.24	Qp	13.6	-31.2	36.64	40	-3.36	256	95	V
4	75.4469	52.33	Pk	14.2	-31.1	35.43	40	-4.57	0-360	95	V
		51.56	Qp	14.2	-31.1	34.66	40	-5.34	240	104	V
5	34.6278	43.03	Pk	24.5	-31.5	36.03	40	-3.97	0-360	95	V
		44.24	Qp	24.5	-31.5	37.24	40	-2.76	360	101	V

Pk - Peak detector

Qp - Quasi-Peak detector

**RADIATED EMISSIONS 1000 TO 18,000 MHz – FCC**

**Radiated Emissions Graph**



**Radiated Emissions Data Points**

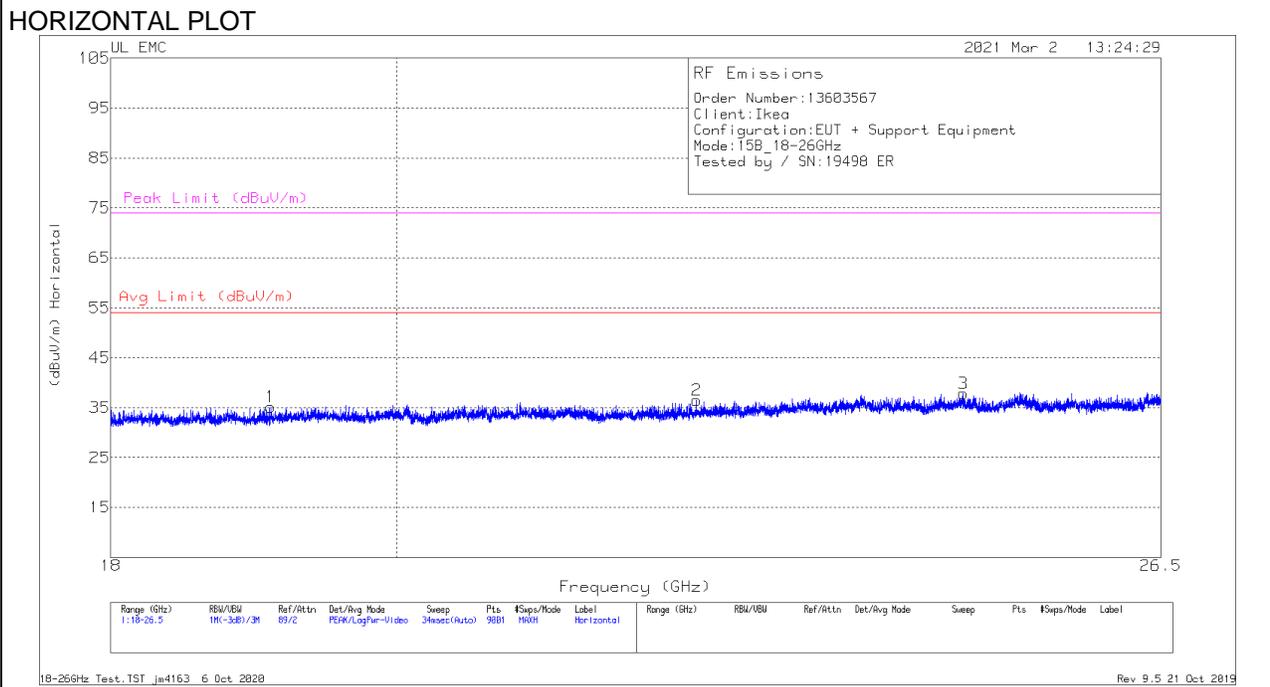
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl (dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.24464	56.47	Pk	28.8	-46.9	38.37	-	-	74	-35.63	190	370	H
		43.45	Av	28.8	-46.9	25.35	54	-28.65	-	-	190	370	H
2	1.79645	55.72	Pk	30.3	-46.3	39.72	-	-	74	-34.28	216	125	H
		42.18	Av	30.3	-46.3	26.18	54	-27.82	-	-	216	125	H
3	4.5907	49.95	Pk	34.2	-41.9	42.25	-	-	74	-31.75	177	134	H
		36.27	Av	34.2	-41.9	28.57	54	-25.43	-	-	177	134	H
4	1.37039	56.25	Pk	29.4	-46.4	39.25	-	-	74	-34.75	150	192	V
		42.54	Av	29.4	-46.4	25.54	54	-28.46	-	-	150	192	V
5	2.4378	55.41	Pk	32.4	-44.8	43.01	-	-	74	-30.99	159	363	V
		42.64	Av	32.4	-44.8	30.24	54	-23.76	-	-	159	363	V
6	4.81991	49.57	Pk	34.4	-41.5	42.47	-	-	74	-31.53	70	260	V
		35.7	Av	34.4	-41.5	28.6	54	-25.4	-	-	70	260	V

Pk - Peak detector

Av - Average detection

**RADIATED EMISSIONS 18,000 TO 26,000 MHz – FCC**

**Radiated Emissions Graph**



**Radiated Emissions Data Points**

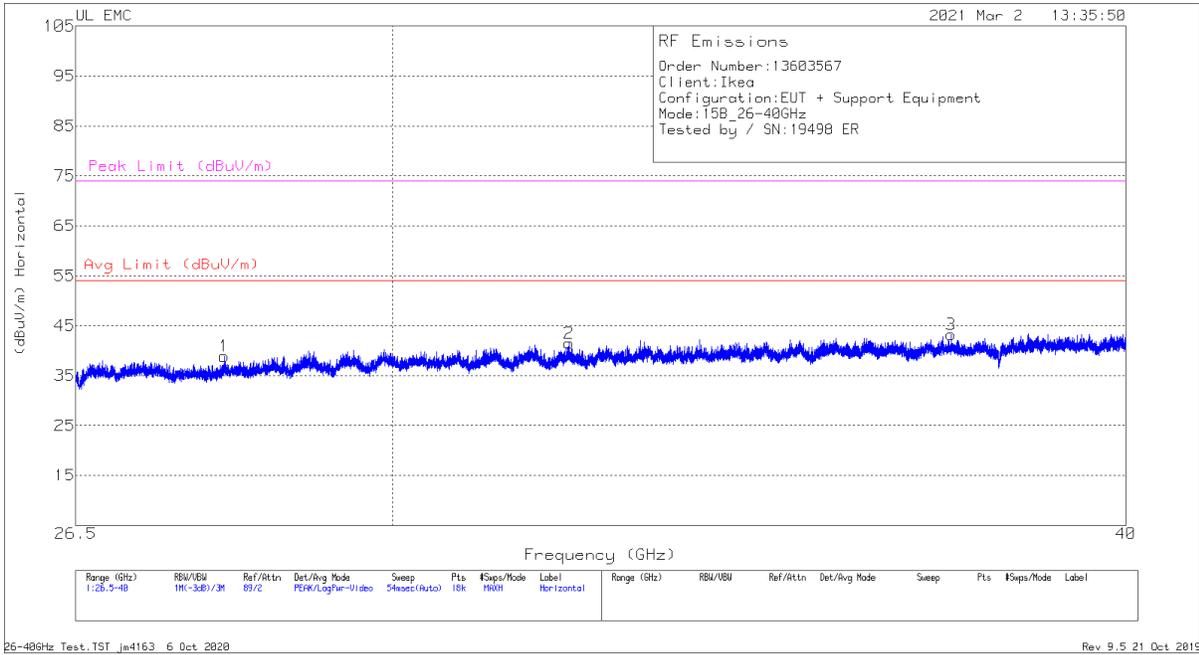
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T447 AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	19.09083	69.65	Pk	32.6	-57.6	-9.5	35.15	54	-18.85	74	-38.85
2	22.33405	70.26	Pk	33.6	-57.9	-9.5	36.46	54	-17.54	74	-37.54
3	24.63944	68.83	Pk	34.4	-55.9	-9.5	37.83	54	-16.17	74	-36.17
4	18.7735	70.57	Pk	32.4	-58.4	-9.5	35.07	54	-18.93	74	-38.93
5	20.50183	69.41	Pk	33.1	-57	-9.5	36.01	54	-17.99	74	-37.99
6	24.75466	68.75	Pk	34.4	-55.5	-9.5	38.15	54	-15.85	74	-35.85

**Pk - Peak detector**

**RADIATED EMISSIONS 26,000 TO 40,000 MHz – FCC**

**Radiated Emissions Graph**

**HORIZONTAL PLOT**



**VERTICAL PLOT**



**Radiated Emissions Data Points**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T446 AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	28.08775	66.27	Pk	36.4	-54.3	-9.5	38.87	54	-15.13	74	-35.13
2	32.15575	67.2	Pk	37.2	-53.4	-9.5	41.5	54	-12.5	74	-32.5
3	37.34875	69.3	Pk	38.5	-55.1	-9.5	43.2	54	-10.8	74	-30.8
4	28.23175	66.44	Pk	36.4	-54.3	-9.5	39.04	54	-14.96	74	-34.96
5	31.72975	66.92	Pk	37.1	-53.4	-9.5	41.12	54	-12.88	74	-32.88
6	35.22775	69.2	Pk	37.9	-55	-9.5	42.6	54	-11.4	74	-31.4

**Pk - Peak detector**

**Appendix A****Facilities, Accreditations and Authorizations**

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

	<b>Address</b>	<b>ISED CABID</b>	<b>ISED Company Number</b>	<b>FCC Registration</b>
<input type="checkbox"/>	Building 1: 47173 Benicia Street, Fremont, California, USA	US0104	2324A	208313
<input type="checkbox"/>	Building 2: 47266 Benicia Street, Fremont, California, USA	US0104	22541	208313
<input checked="" type="checkbox"/>	Building 4: 47658 Kato Rd, Fremont, California, USA	US0104	2324B	208313

**END OF TEST REPORT**