

TEST REPORT

Application No.: KSCR2602000323AT
FCC ID: 2BUUM00ARTLSU
Applicant: VISEMO SA
Address of Applicant: Route des Flumeaux 46, 1008 Prilly, Switzerland
Manufacturer: VISEMO SA
Address of Manufacturer: Route des Flumeaux 46, 1008 Prilly, Switzerland
Factory: Hemar Group
Address of Factory: Fendler 50, 5524 Nesselbach, Switzerland
Equipment Under Test (EUT):
EUT Name: ARTLabel
Model No.: ARTL-SU
Trade Mark: ARTLabel
Standard(s) : 47 CFR Part 2
47 CFR Part 22
47 CFR Part 24
47 CFR Part 27
47 CFR Part 90
Date of Receipt: 2026-02-05
Date of Test: 2026-04-06 to 2026-04-10
Date of Issue: 2026-04-14

Test Result:
Pass*

* In the configuration tested, the EUT complied with the standards specified above.

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Revision Record			
Version	Description	Date	Remark
00	Original	2026-04-14	/

Authorized for issue by:			
Tested By		Tommie Tang	
		Tommie_Tang/Project Engineer	
Approved By		Terry Hou	
		Terry Hou /Reviewer	

2 Test Summary

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Field strength of spurious radiation	47 CFR Part 2; 47 CFR Part 22 subpart H; 47 CFR Part 24 subpart E; 47 CFR Part 27 subpart C; 47 CFR Part 90 subpart S	ANSI C63.26, KDB 971168 D01 v03	§2.1051, §22.917, §24.238, §27.53(f), §27.53(g), §27.53(h), §90.691	Pass

Note1: This host product using a certified module(FCC ID: 2ANPO00NRF9151). The host integrator declares that they have followed the integration instructions provided by the module manufacturer and ensures that the end product complies with the FCC requirements by a technical evaluation to include the FCC Rules and KDB Publication 996369. In this report, the testing is performed with the host product configured in typical operational modes to check the spurious emissions for compliance with all the applicable rules, other test data please refer to original module test report No.

PSU-QSU2404090210RF01, PSU-QSU2404090210RF02, PSU-QSU2404090210RF03,
PSU-QSU2404090210RF04, PSU-QSU2404090210RF05

Note2: Effective (Isotropic) Radiated Power Output Data is validated and tested in agreement with the original project, so it is a direct reference to the original project data. Only the Field strength of spurious radiation evaluated in this report, other test data please refer to original project data.

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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 3V by battery	
Operating Frequency:	Band	
	CAT-M1:	
	LTE Band 2:	1850.7MHz – 1909.3MHz
	LTE Band 4:	1710.7MHz – 1754.3MHz
	LTE Band 5:	824.7MHz – 848.3MHz
	LTE Band 12:	699.7MHz – 715.3MHz
	LTE Band 13:	779.5MHz – 784.5MHz
	LTE Band 25:	1850.7MHz – 1914.3MHz
	LTE Band 26:	814.7MHz – 848.3MHz
	LTE Band 66:	1710.7MHz – 1779.3MHz
	LTE Band 85:	700.5MHz – 713.5MHz
	NB-IoT:	
	LTE Band 2:	1850.1MHz – 1909.9MHz
	LTE Band 4:	1710.1MHz – 1754.9MHz
	LTE Band 5:	824.1MHz – 848.9MHz
	LTE Band 12:	699.1MHz – 715.9MHz
	LTE Band 13:	777.1MHz – 786.9MHz
	LTE Band 17:	704.1MHz – 715.9MHz
	LTE Band 25:	1850.1MHz – 1914.9MHz
	LTE Band 26:	814.2MHz – 848.8MHz
	LTE Band 66:	1710.1MHz – 1779.9MHz
	LTE Band 85:	698.1MHz – 715.9MHz
LTE CAT-M1 Modulation Type:	QPSK/16QAM	
LTE NB-IoT Modulation Type:	BPSK/QPSK	
Antenna Type:	PCB Antenna and Split Ring Resonator	
LTE CAT-M1 Antenna Gain:	Band 2: 2.12dBi(Provided by manufacturer) Band 4: 2.12dBi(Provided by manufacturer) Band 5: 2.12dBi(Provided by manufacturer) Band 12: 2.12dBi(Provided by manufacturer) Band 13: 2.12dBi(Provided by manufacturer) Band 25: 2.12dBi(Provided by manufacturer) Band 26: 2.12dBi(Provided by manufacturer) Band 66: 2.12dBi(Provided by manufacturer) Band 85: 2.12dBi(Provided by manufacturer)	

LTE NB-IoT Antenna Gain:	Band 2: 2.12dBi(Provided by manufacturer) Band 4: 2.12dBi(Provided by manufacturer) Band 5: 2.12dBi(Provided by manufacturer) Band 12: 2.12dBi(Provided by manufacturer) Band 13: 2.12dBi(Provided by manufacturer) Band 17: 2.12dBi(Provided by manufacturer) Band 25: 2.12dBi(Provided by manufacturer) Band 26: 2.12dBi(Provided by manufacturer) Band 66: 2.12dBi(Provided by manufacturer) Band 85: 2.12dBi(Provided by manufacturer)
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4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Notebook	LENOVO	K27	/

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4×10^{-8}
2	Timeout	2s
3	Duty Cycle	0.37%
4	Occupied Bandwidth	3%
5	RF Conducted Power	0.6dB
6	RF Power Density	2.9dB
7	Conducted Spurious Emissions	0.75dB
8	RF Radiated Power	5.2dB (Below 1GHz)
		5.9dB (Above 1GHz)
9	Radiated Spurious Emission Test	4.2dB (Below 30MHz)
		4.5dB (30MHz-1GHz)
		5.1dB (1GHz-18GHz)
		5.4dB (Above 18GHz)
10	Temperature Test	1°C
11	Humidity Test	3%
12	Supply Voltages	1.5%
13	Time	3%
Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.		

4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

1. SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).
2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).
3. Sample source: sent by customer.

4.5 Test Facility

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

• **A2LA (Certificate No. 2541.01)**

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA).

• **FCC (Designation Number: CN1172)**

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory.

• **ISED (CAB Identifier: CN0072)**

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

Company Number: 2324E

• **VCCI (Member No:1938)**

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

5 Equipment List

Item	Equipment	Manufacturer	Model	Inventory No	Cal Date	Cal. Due Date
RF Conducted Test						
1	Spectrum Analyzer	Keysight	N9020A	KUS1911E004-2	07/09/2025	07/08/2026
2	Spectrum Analyzer	Keysight	N9020A	KUS2001M001-2	07/09/2025	07/08/2026
3	Spectrum Analyzer	Keysight	N9030B	KSEM021-1	12/17/2025	12/16/2026
4	Signal Generator	R&S	SMBV100B	KSEM032	12/17/2025	12/16/2026
5	Signal Generator	R&S	SMW200A	KSEM020-1	07/09/2025	07/08/2026
6	Signal Generator	Agilent	N5182A	KUS2001M001-1	07/08/2025	07/07/2026
7	Signal Generator	Agilent	E8257C	KS301066	07/22/2025	07/21/2026
8	Radio Communication Test Station	Anritsu	MT8000A	KSEM001-1	07/09/2025	07/08/2026
9	Radio Communication Analyzer	Anritsu	MT8821C	KSEM002-1	12/17/2025	12/16/2026
10	Universal Radio Communication Tester	R&S	CMW500	KUS1911E004-1	07/08/2025	07/07/2026
11	Switcher	TST	FY562	KUS2001M001-4	12/17/2025	12/16/2026
12	Conducted Test Cable	Thermax	RF01-RF04	CZ301111-CZ301120	12/17/2025	12/16/2026
13	Temp. / Humidity Chamber	TERCHY	MHK-120AK	KS301190	07/15/2025	07/14/2026
14	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-5	12/30/2025	12/29/2026
15	Software	BST	TST-PASS	/	NCR	NCR
RF Radiated Test						
1	Spectrum Analyzer	R&S	FSV40	KUS1806E003	07/09/2025	07/08/2026
2	Universal Radio Communication Tester	R&S	CMW500	KSEM009-1	12/17/2025	12/16/2026
3	Signal Generator	Agilent	E8257C	KS301066	07/22/2025	07/21/2026
4	Loop Antenna (9KHz-30MHz)	COM-POWER	AL-130R	KUS1806E001	07/11/2025	07/10/2026
5	Bilog Antenna (30MHz-1GHz)	TESEQ	CBL 6112D	KUS1806E005	07/12/2025	07/11/2026
6	Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	KS301079	01/11/2026	01/10/2028
7	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	CZ301058	01/11/2026	01/10/2028
8	Amplifier(30MHz~1GHz)	TST	LNA009100G30	KSEM061	12/18/2025	12/17/2026
9	Amplifier(400MHz~8GHz)	TST	LNA004080G30	KSEM062	12/18/2025	12/17/2026
10	Amplifier(1GHz~18GHz)	TST	LNA010180G45	KSEM039	07/09/2025	07/08/2026
11	Amplifier(18~40GHz)	TST	LNA180400G40	KSEM038	07/09/2025	07/08/2026
12	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-4	12/30/2025	12/29/2026
13	Software	ESE	E3_V 6.111221a	/	NCR	NCR
14	Measurement Software	Tonscend	JS32-RE V5.0.0.1	/	NCR	NCR
15	Measurement Software	Tonscend	JS32-RSE V5.0.0.0	/	NCR	NCR

6 Radio Spectrum Matter Test Results

6.1 Field strength of spurious radiation

Test Requirement §2.1051, §22.917, §24.238, §27.53(f), §27.53(g), §27.53(h), §90.691

Test Method: ANSI C63.26, KDB 971168 D01 v03

Measurement Distance: 3M

Limit:

- ≤ -13dBm
- ≤ -13dBm (LTE Band13, limit out of band 1559-1610MHz)
- ≤ -40dBm (LTE Band13, limit in the band 1559-1610MHz)

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25.5 °C

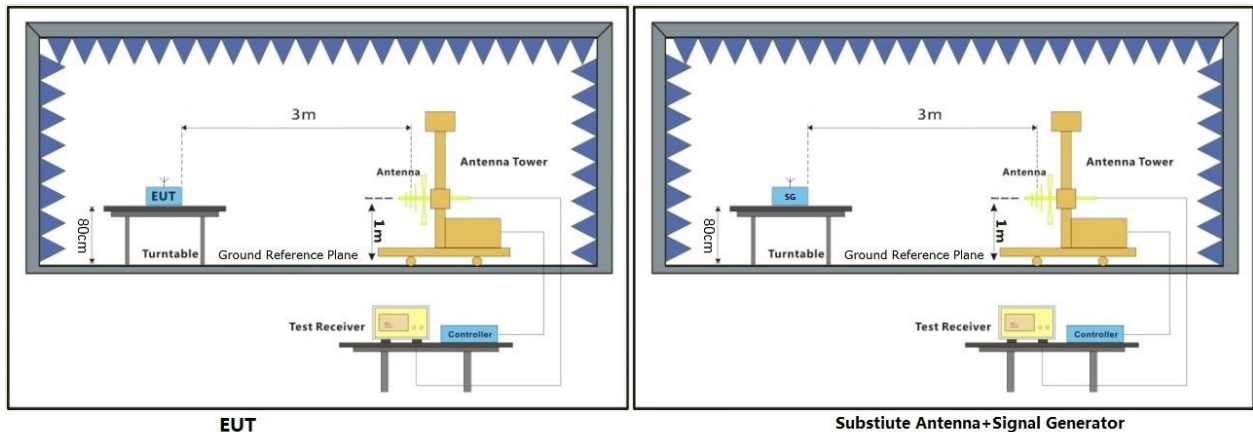
Humidity: 48.3 % RH

Atmospheric Pressure: 1010 mbar

6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	Cat-M1 TX mode_Keep the EUT in transmitting mode.
Final test	02	NB-IoT TX mode_Keep the EUT in transmitting mode.

6.1.3 Test Setup Diagram



6.1.4 Measurement Procedure and Data

For below 1GHz:

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) 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 Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. $\text{Level} = \text{Read Level} + \text{Cable Loss} + \text{Antenna Factor} - \text{Preamp Factor}$
2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

For above 1GHz:

- a: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. 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 antenna height 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) 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 Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
- 4: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
- 5:For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle<98%) or 10Hz (Duty cycle $\geq$ 98%) for Average detection (AV) at frequency above 1GHz.

For LTE CAT-M1

LTE CAT-M1 BAND 2-Low channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3701.4	-60.35	-13	-47.35	Horizontal
5552.1	-62.09	-13	-49.09	Horizontal
7402.8	-54.45	-13	-41.45	Horizontal
3701.4	-58.14	-13	-45.14	Vertical
5552.1	-59.57	-13	-46.57	Vertical
7402.8	-49.19	-13	-36.19	Vertical

LTE CAT-M1 BAND 2-Middle channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3760.0	-53.23	-13	-40.23	Horizontal
5640.0	-59.92	-13	-46.92	Horizontal
7520.0	-53.19	-13	-40.19	Horizontal
3760.0	-57.10	-13	-44.10	Vertical
5640.0	-58.87	-13	-45.87	Vertical
7520.0	-59.70	-13	-46.70	Vertical

LTE CAT-M1 BAND 2-High channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3818.6	-62.46	-13	-49.46	Horizontal
5727.9	-64.52	-13	-51.52	Horizontal
7637.2	-56.53	-13	-43.53	Horizontal
3818.6	-58.63	-13	-45.63	Vertical
5727.9	-61.09	-13	-48.09	Vertical
7637.2	-55.55	-13	-42.55	Vertical

LTE CAT-M1 BAND 4-Low channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3421.4	-55.20	-13	-42.20	Horizontal
5132.1	-58.85	-13	-45.85	Horizontal
6842.8	-57.49	-13	-44.49	Horizontal
3421.4	-53.88	-13	-40.88	Vertical
5132.1	-54.73	-13	-41.73	Vertical
6842.8	-57.54	-13	-44.54	Vertical

LTE CAT-M1 BAND 4-Middle channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3465.0	-60.16	-13	-47.16	Horizontal
5197.5	-58.77	-13	-45.77	Horizontal
6930.0	-60.76	-13	-47.76	Horizontal
3465.0	-54.67	-13	-41.67	Vertical
5197.5	-56.86	-13	-43.86	Vertical
6930.0	-55.72	-13	-42.72	Vertical

LTE CAT-M1 BAND 4-High channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3508.6	-57.15	-13	-44.15	Horizontal
5262.9	-60.39	-13	-47.39	Horizontal
7017.2	-59.33	-13	-46.33	Horizontal
3508.6	-58.47	-13	-45.47	Vertical
5262.9	-62.42	-13	-49.42	Vertical
7017.2	-55.20	-13	-42.20	Vertical

LTE CAT-M1 BAND 5-Low channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1649.4	-53.70	-13	-40.70	Horizontal
2474.1	-60.26	-13	-47.26	Horizontal
3298.8	-53.15	-13	-40.15	Horizontal
1649.4	-54.12	-13	-41.12	Vertical
2474.1	-59.97	-13	-46.97	Vertical
3298.8	-58.93	-13	-45.93	Vertical

LTE CAT-M1 BAND 5-Middle channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1673.0	-54.37	-13	-41.37	Horizontal
2509.5	-60.44	-13	-47.44	Horizontal
3346.0	-53.93	-13	-40.93	Horizontal
1673.0	-59.44	-13	-46.44	Vertical
2509.5	-56.03	-13	-43.03	Vertical
3346.0	-59.11	-13	-46.11	Vertical

LTE CAT-M1 BAND 5-High channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1696.6	-58.08	-13	-45.08	Horizontal
2544.9	-60.04	-13	-47.04	Horizontal
3393.2	-55.32	-13	-42.32	Horizontal
1696.6	-60.31	-13	-47.31	Vertical
2544.9	-58.80	-13	-45.80	Vertical
3393.2	-55.04	-13	-42.04	Vertical

LTE CAT-M1 BAND 12-Low channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1399.4	-57.74	-13	-44.74	Horizontal
2099.1	-55.92	-13	-42.92	Horizontal
2798.8	-55.90	-13	-42.90	Horizontal
1399.4	-58.84	-13	-45.84	Vertical
2099.1	-60.18	-13	-47.18	Vertical
2798.8	-55.66	-13	-42.66	Vertical

LTE CAT-M1 BAND 12-Middle channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1415.0	-49.95	-13	-36.95	Horizontal
2122.5	-55.47	-13	-42.47	Horizontal
2830.0	-57.16	-13	-44.16	Horizontal
1415.0	-55.16	-13	-42.16	Vertical
2122.5	-63.02	-13	-50.02	Vertical
2830.0	-62.49	-13	-49.49	Vertical

LTE CAT-M1 BAND 12-High channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1430.6	-50.31	-13	-37.31	Horizontal
2145.9	-62.03	-13	-49.03	Horizontal
2861.2	-51.70	-13	-38.70	Horizontal
1430.6	-56.34	-13	-43.34	Vertical
2145.9	-63.45	-13	-50.45	Vertical
2861.2	-55.50	-13	-42.50	Vertical

LTE CAT-M1 BAND 13-Low channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1559.0	-58.12	-40	-18.12	Horizontal
2338.5	-57.50	-13	-44.50	Horizontal
3118.0	-51.58	-13	-38.58	Horizontal
1559.0	-50.14	-40	-10.14	Vertical
2338.5	-58.34	-13	-45.34	Vertical
3118.0	-58.75	-13	-45.75	Vertical

LTE CAT-M1 BAND 13-Middle channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1564.0	-57.92	-40	-17.92	Horizontal
2346.0	-56.78	-13	-43.78	Horizontal
3128.0	-60.40	-13	-47.40	Horizontal
1564.0	-51.53	-40	-11.53	Vertical
2346.0	-59.49	-13	-46.49	Vertical
3128.0	-57.61	-13	-44.61	Vertical

LTE CAT-M1 BAND 13-High channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1569.0	-57.04	-40	-17.04	Horizontal
2353.5	-57.42	-13	-44.42	Horizontal
3138.0	-56.61	-13	-43.61	Horizontal
1569.0	-58.18	-40	-18.18	Vertical
2353.5	-59.66	-13	-46.66	Vertical
3138.0	-50.43	-13	-37.43	Vertical

LTE CAT-M1 BAND 25-Low channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3701.4	-60.89	-13	-47.89	Horizontal
5552.1	-59.22	-13	-46.22	Horizontal
7402.8	-52.56	-13	-39.56	Horizontal
3701.4	-54.44	-13	-41.44	Vertical
5552.1	-53.79	-13	-40.79	Vertical
7402.8	-56.23	-13	-43.23	Vertical

LTE CAT-M1 BAND 25-Middle channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3765.0	-55.88	-13	-42.88	Horizontal
5647.5	-61.79	-13	-48.79	Horizontal
7530.0	-57.21	-13	-44.21	Horizontal
3765.0	-58.86	-13	-45.86	Vertical
5647.5	-61.95	-13	-48.95	Vertical
7530.0	-56.74	-13	-43.74	Vertical

LTE CAT-M1 BAND 25-High channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3828.6	-57.78	-13	-44.78	Horizontal
5742.9	-60.98	-13	-47.98	Horizontal
7657.2	-59.03	-13	-46.03	Horizontal
3828.6	-53.63	-13	-40.63	Vertical
5742.9	-59.31	-13	-46.31	Vertical
7657.2	-57.18	-13	-44.18	Vertical

LTE CAT-M1 BAND 26-Low channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1629.4	-49.61	-13	-36.61	Horizontal
2444.1	-57.10	-13	-44.10	Horizontal
3258.8	-56.83	-13	-43.83	Horizontal
1629.4	-59.56	-13	-46.56	Vertical
2444.1	-60.21	-13	-47.21	Vertical
3258.8	-52.82	-13	-39.82	Vertical

LTE CAT-M1 BAND 26-Middle channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1663.0	-53.47	-13	-40.47	Horizontal
2494.5	-61.81	-13	-48.81	Horizontal
3326.0	-55.13	-13	-42.13	Horizontal
1663.0	-54.96	-13	-41.96	Vertical
2494.5	-60.66	-13	-47.66	Vertical
3326.0	-61.83	-13	-48.83	Vertical

LTE CAT-M1 BAND 26-High channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1696.6	-54.25	-13	-41.25	Horizontal
2544.9	-63.59	-13	-50.59	Horizontal
3393.2	-58.95	-13	-45.95	Horizontal
1696.6	-51.07	-13	-38.07	Vertical
2544.9	-61.03	-13	-48.03	Vertical
3393.2	-56.62	-13	-43.62	Vertical

LTE CAT-M1 BAND 66-Low channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3421.4	-59.44	-13	-46.44	Horizontal
5132.1	-55.93	-13	-42.93	Horizontal
6842.8	-57.46	-13	-44.46	Horizontal
3421.4	-60.88	-13	-47.88	Vertical
5132.1	-53.43	-13	-40.43	Vertical
6842.8	-53.13	-13	-40.13	Vertical

LTE CAT-M1 BAND 66-Middle channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3490.0	-58.64	-13	-45.64	Horizontal
5235.0	-60.21	-13	-47.21	Horizontal
6980.0	-57.49	-13	-44.49	Horizontal
3490.0	-53.33	-13	-40.33	Vertical
5235.0	-61.60	-13	-48.60	Vertical
6980.0	-58.93	-13	-45.93	Vertical

LTE CAT-M1 BAND 66-High channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3558.6	-60.35	-13	-47.35	Horizontal
5337.9	-62.44	-13	-49.44	Horizontal
7117.2	-59.18	-13	-46.18	Horizontal
3558.6	-60.10	-13	-47.10	Vertical
5337.9	-60.84	-13	-47.84	Vertical
7117.2	-52.87	-13	-39.87	Vertical

LTE CAT-M1 BAND 85-Low channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1401.0	-53.99	-13	-40.99	Horizontal
2101.5	-54.91	-13	-41.91	Horizontal
2802.0	-57.73	-13	-44.73	Horizontal
1401.0	-62.13	-13	-49.13	Vertical
2101.5	-58.17	-13	-45.17	Vertical
2802.0	-54.13	-13	-41.13	Vertical

LTE CAT-M1 BAND 85-Middle channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1414.0	-56.33	-13	-43.33	Horizontal
2121.0	-58.69	-13	-45.69	Horizontal
2828.0	-57.20	-13	-44.20	Horizontal
1414.0	-53.35	-13	-40.35	Vertical
2121.0	-60.54	-13	-47.54	Vertical
2828.0	-58.24	-13	-45.24	Vertical

LTE CAT-M1 BAND 85-High channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1427.0	-61.71	-13	-48.71	Horizontal
2140.5	-61.08	-13	-48.08	Horizontal
2854.0	-58.40	-13	-45.40	Horizontal
1427.0	-63.84	-13	-50.84	Vertical
2140.5	-57.52	-13	-44.52	Vertical
2854.0	-53.37	-13	-40.37	Vertical

For LTE NB-IoT

LTE NB-IoT BAND 2-Low channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3700.2	-60.11	-13	-47.11	Horizontal
5550.3	-58.90	-13	-45.90	Horizontal
7400.4	-56.65	-13	-43.65	Horizontal
3700.2	-61.68	-13	-48.68	Vertical
5550.3	-62.00	-13	-49.00	Vertical
7400.4	-53.00	-13	-40.00	Vertical

LTE NB-IoT BAND 2-Middle channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3760.0	-51.00	-13	-38.00	Horizontal
5640.0	-61.48	-13	-48.48	Horizontal
7520.0	-53.39	-13	-40.39	Horizontal
3760.0	-55.83	-13	-42.83	Vertical
5640.0	-56.21	-13	-43.21	Vertical
7520.0	-60.22	-13	-47.22	Vertical

LTE NB-IoT BAND 2-High channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3819.8	-62.39	-13	-49.39	Horizontal
5729.7	-63.43	-13	-50.43	Horizontal
7639.6	-53.88	-13	-40.88	Horizontal
3819.8	-62.37	-13	-49.37	Vertical
5729.7	-59.22	-13	-46.22	Vertical
7639.6	-54.56	-13	-41.56	Vertical

LTE NB-IoT BAND 4-Low channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3420.2	-52.49	-13	-39.49	Horizontal
5130.3	-61.99	-13	-48.99	Horizontal
6840.4	-57.02	-13	-44.02	Horizontal
3420.2	-55.11	-13	-42.11	Vertical
5130.3	-53.83	-13	-40.83	Vertical
6840.4	-53.46	-13	-40.46	Vertical

LTE NB-IoT BAND 4-Middle channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3465.0	-58.17	-13	-45.17	Horizontal
5197.5	-55.33	-13	-42.33	Horizontal
6930.0	-56.49	-13	-43.49	Horizontal
3465.0	-53.12	-13	-40.12	Vertical
5197.5	-59.70	-13	-46.70	Vertical
6930.0	-59.79	-13	-46.79	Vertical

LTE NB-IoT BAND 4-High channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3509.8	-54.92	-13	-41.92	Horizontal
5264.7	-61.22	-13	-48.22	Horizontal
7019.6	-58.56	-13	-45.56	Horizontal
3509.8	-60.56	-13	-47.56	Vertical
5264.7	-58.97	-13	-45.97	Vertical
7019.6	-54.97	-13	-41.97	Vertical

LTE NB-IoT BAND 5-Low channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1648.2	-55.05	-13	-42.05	Horizontal
2472.3	-59.05	-13	-46.05	Horizontal
3296.4	-56.45	-13	-43.45	Horizontal
1648.2	-53.92	-13	-40.92	Vertical
2472.3	-61.66	-13	-48.66	Vertical
3296.4	-54.38	-13	-41.38	Vertical

LTE NB-IoT BAND 5-Middle channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1673.0	-51.41	-13	-38.41	Horizontal
2509.5	-61.56	-13	-48.56	Horizontal
3346.0	-54.23	-13	-41.23	Horizontal
1673.0	-56.85	-13	-43.85	Vertical
2509.5	-56.90	-13	-43.90	Vertical
3346.0	-56.29	-13	-43.29	Vertical

LTE NB-IoT BAND 5-High channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1697.8	-57.72	-13	-44.72	Horizontal
2546.7	-61.62	-13	-48.62	Horizontal
3395.6	-50.34	-13	-37.34	Horizontal
1697.8	-63.32	-13	-50.32	Vertical
2546.7	-63.74	-13	-50.74	Vertical
3395.6	-54.40	-13	-41.40	Vertical

LTE NB-IoT BAND 12-Low channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1398.2	-53.43	-13	-40.43	Horizontal
2097.3	-58.85	-13	-45.85	Horizontal
2796.4	-52.61	-13	-39.61	Horizontal
1398.2	-58.75	-13	-45.75	Vertical
2097.3	-58.15	-13	-45.15	Vertical
2796.4	-54.62	-13	-41.62	Vertical

LTE NB-IoT BAND 12-Middle channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1415.0	-51.37	-13	-38.37	Horizontal
2122.5	-56.85	-13	-43.85	Horizontal
2830.0	-55.32	-13	-42.32	Horizontal
1415.0	-54.57	-13	-41.57	Vertical
2122.5	-58.64	-13	-45.64	Vertical
2830.0	-57.78	-13	-44.78	Vertical

LTE NB-IoT BAND 12-High channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1431.8	-51.39	-13	-38.39	Horizontal
2147.7	-58.11	-13	-45.11	Horizontal
2863.6	-56.00	-13	-43.00	Horizontal
1431.8	-55.01	-13	-42.01	Vertical
2147.7	-62.65	-13	-49.65	Vertical
2863.6	-55.65	-13	-42.65	Vertical

LTE NB-IoT BAND 13-Low channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1554.2	-55.25	-40	-15.25	Horizontal
2331.3	-58.18	-13	-45.18	Horizontal
3108.4	-50.68	-13	-37.68	Horizontal
1554.2	-51.59	-40	-11.59	Vertical
2331.3	-56.00	-13	-43.00	Vertical
3108.4	-59.08	-13	-46.08	Vertical

LTE NB-IoT BAND 13-Middle channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1564.0	-56.96	-40	-16.96	Horizontal
2346.0	-55.20	-13	-42.20	Horizontal
3128.0	-59.17	-13	-46.17	Horizontal
1564.0	-53.68	-40	-13.68	Vertical
2346.0	-62.92	-13	-49.92	Vertical
3128.0	-54.62	-13	-41.62	Vertical

LTE NB-IoT BAND 13-High channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1573.8	-57.17	-40	-17.17	Horizontal
2360.7	-58.31	-13	-45.31	Horizontal
3147.6	-56.04	-13	-43.04	Horizontal
1573.8	-57.96	-40	-17.96	Vertical
2360.7	-57.25	-13	-44.25	Vertical
3147.6	-53.15	-13	-40.15	Vertical

LTE NB-IoT BAND 17-Low channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1408.2	-56.85	-40	-16.85	Horizontal
2112.3	-56.10	-13	-43.10	Horizontal
2816.4	-52.16	-13	-39.16	Horizontal
1408.2	-50.41	-40	-10.41	Vertical
2112.3	-58.32	-13	-45.32	Vertical
2816.4	-58.86	-13	-45.86	Vertical

LTE NB-IoT BAND 17-Middle channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1420.0	-59.66	-40	-19.66	Horizontal
2130.0	-59.53	-13	-46.53	Horizontal
2840.0	-61.71	-13	-48.71	Horizontal
1420.0	-49.64	-40	-9.64	Vertical
2130.0	-61.32	-13	-48.32	Vertical
2840.0	-53.48	-13	-40.48	Vertical

LTE NB-IoT BAND 17-High channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1431.8	-60.87	-40	-20.87	Horizontal
2147.7	-59.76	-13	-46.76	Horizontal
2863.6	-57.02	-13	-44.02	Horizontal
1431.8	-57.03	-40	-17.03	Vertical
2147.7	-57.26	-13	-44.26	Vertical
2863.6	-52.17	-13	-39.17	Vertical

LTE NB-IoT BAND 25-Low channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3700.2	-57.70	-13	-44.70	Horizontal
5550.3	-60.09	-13	-47.09	Horizontal
7400.4	-52.98	-13	-39.98	Horizontal
3700.2	-57.02	-13	-44.02	Vertical
5550.3	-55.15	-13	-42.15	Vertical
7400.4	-54.73	-13	-41.73	Vertical

LTE NB-IoT BAND 25-Middle channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3765.0	-55.73	-13	-42.73	Horizontal
5647.5	-62.04	-13	-49.04	Horizontal
7530.0	-58.51	-13	-45.51	Horizontal
3765.0	-57.90	-13	-44.90	Vertical
5647.5	-64.56	-13	-51.56	Vertical
7530.0	-53.71	-13	-40.71	Vertical

LTE NB-IoT BAND 25-High channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3829.8	-55.86	-13	-42.86	Horizontal
5744.7	-58.38	-13	-45.38	Horizontal
7659.6	-57.53	-13	-44.53	Horizontal
3829.8	-56.42	-13	-43.42	Vertical
5744.7	-60.20	-13	-47.20	Vertical
7659.6	-52.54	-13	-39.54	Vertical

LTE NB-IoT BAND 26-Low channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1628.4	-50.00	-13	-37.00	Horizontal
2442.6	-61.58	-13	-48.58	Horizontal
3256.8	-54.66	-13	-41.66	Horizontal
1628.4	-58.37	-13	-45.37	Vertical
2442.6	-57.80	-13	-44.80	Vertical
3256.8	-52.83	-13	-39.83	Vertical

LTE NB-IoT BAND 26-Middle channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1663.0	-49.64	-13	-36.64	Horizontal
2494.5	-59.16	-13	-46.16	Horizontal
3326.0	-54.22	-13	-41.22	Horizontal
1663.0	-56.85	-13	-43.85	Vertical
2494.5	-58.19	-13	-45.19	Vertical
3326.0	-56.80	-13	-43.80	Vertical

LTE NB-IoT BAND 26-High channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1697.6	-51.19	-13	-38.19	Horizontal
2546.4	-64.78	-13	-51.78	Horizontal
3395.2	-58.55	-13	-45.55	Horizontal
1697.6	-51.24	-13	-38.24	Vertical
2546.4	-60.12	-13	-47.12	Vertical
3395.2	-56.22	-13	-43.22	Vertical

LTE NB-IoT BAND 66-Low channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3420.2	-58.29	-13	-45.29	Horizontal
5130.3	-56.22	-13	-43.22	Horizontal
6840.4	-59.43	-13	-46.43	Horizontal
3420.2	-61.71	-13	-48.71	Vertical
5130.3	-58.32	-13	-45.32	Vertical
6840.4	-54.67	-13	-41.67	Vertical

LTE NB-IoT BAND 66-Middle channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3490.0	-59.96	-13	-46.96	Horizontal
5235.0	-63.19	-13	-50.19	Horizontal
6980.0	-57.76	-13	-44.76	Horizontal
3490.0	-54.71	-13	-41.71	Vertical
5235.0	-58.75	-13	-45.75	Vertical
6980.0	-59.83	-13	-46.83	Vertical

LTE NB-IoT BAND 66-High channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3559.8	-60.48	-13	-47.48	Horizontal
5339.7	-59.82	-13	-46.82	Horizontal
7119.6	-57.26	-13	-44.26	Horizontal
3559.8	-61.15	-13	-48.15	Vertical
5339.7	-60.17	-13	-47.17	Vertical
7119.6	-53.85	-13	-40.85	Vertical

LTE NB-IoT BAND 85-Low channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1396.2	-59.64	-13	-46.64	Horizontal
2094.3	-55.29	-13	-42.29	Horizontal
2792.4	-60.04	-13	-47.04	Horizontal
1396.2	-57.59	-13	-44.59	Vertical
2094.3	-54.64	-13	-41.64	Vertical
2792.4	-56.66	-13	-43.66	Vertical

LTE NB-IoT BAND 85-Middle channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1414.0	-59.87	-13	-46.87	Horizontal
2121.0	-60.00	-13	-47.00	Horizontal
2828.0	-59.13	-13	-46.13	Horizontal
1414.0	-50.26	-13	-37.26	Vertical
2121.0	-61.23	-13	-48.23	Vertical
2828.0	-61.73	-13	-48.73	Vertical

LTE NB-IoT BAND 85-High channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1431.8	-62.52	-13	-49.52	Horizontal
2147.7	-61.51	-13	-48.51	Horizontal
2863.6	-55.68	-13	-42.68	Horizontal
1431.8	-58.12	-13	-45.12	Vertical
2147.7	-62.01	-13	-49.01	Vertical
2863.6	-50.84	-13	-37.84	Vertical



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7 Test Setup Photo

Refer to Appendix - Test Setup Photo for KSCR2602000323AT

8 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for KSCR2602000323AT

- End of the Report -