

Prüfbericht-Nr.: <i>Test report no.:</i>	60443516-001	Auftrags-Nr.: <i>Order no.:</i>	23870547 030	Seite 1 von 23 Page 1 of 23
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	-	Auftragsdatum: <i>Order date:</i>	2021.04.05	
Auftraggeber: <i>Client:</i>	Schneider Electric			
Prüfgegenstand: <i>Test item:</i>	SmartX IP Controller			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	FCC ID: DVE-RPC24			
Auftrags-Inhalt: <i>Order content:</i>	Accredited testing			
Prüfgrundlage: <i>Test specification:</i>	FCC 47 CFR Part 15B with parts 15.107 & 15.109 ANSI C63.4: 2014			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2021.04.05			
Prüfmuster-Nr.: <i>Test sample no.:</i>	A003045983-001			
Prüfzeitraum: <i>Testing period:</i>	2021.05.18 – 2021.05.19			
Ort der Prüfung: <i>Place of testing:</i>	Lund, Sweden			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland Sweden			
Prüfergebnis*: <i>Test result*:</i>	Pass			
überprüft von: <i>reviewed by:</i>		genehmigt von: <i>authorized by:</i>		
Datum: 2021.09.20 <i>Date:</i>	Signed by: Sami Ebadah	Datum: 2021.09.20 <i>Date:</i>	Signed by: Per Isacson	
Stellung / Position:	Technical Expert	Stellung / Position:	Managing Director	
Sonstiges / Other:				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
* Legende:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend N/A = nicht anwendbar	4 = ausreichend N/T = nicht getestet
* Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory N/A = not applicable	4 = sufficient N/T = not tested
<p>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts.</i></p>				

Revision History⁶⁰⁴⁴³⁵¹⁶⁻⁰⁰¹⁶⁰⁴⁴³⁵¹⁶⁻⁰⁰¹

REVISION	DATE	REMARKS	AUTHOR
001	2021.09.20	First Release	Sam Ebadeh

Note: Latest revision report will replace all previous reports
This report based on FCC Part 15B no JBP Template version 1.2

Summary of Test Results

FCC 47 CFR Rule Part	Test Description	Applicability	Report Section	RESULT	REMARKS
15.107	AC Power Line Conducted Emissions (Unintentional Radiators)	YES	4.1	PASS	
15.109	Radiated Emissions (Unintentional Radiators)	YES	4.2	PASS	

Possible test case verdicts:

- Test case does not apply to the test object: N/A
- Test object complies with the requirement: PASS or COMPLIANT
- Test object does not meet the requirement: FAIL or NOT COMPLIANT
- Test case not performed on the test object: N.P.

Table of Contents

1. GENERAL INFORMATION	4
1.1 Test Site.....	4
1.2 Client Information	4
2. PRODUCT INFORMATION.....	5
2.1 General Description.....	5
2.2 Device Characteristics.....	5
2.3 Test Samples	5
2.4 Wireless Technologies and Bands Supported by the EUT.....	5
2.5 Antenna Information.....	6
2.6 Wireless Technology Details	6
2.7 Ancillary Equipment.....	6
2.8 EUT Diagrams.....	6
3. TEST METHODS	7
3.1 Test Standards.....	7
3.2 Additional references.....	7
3.3 Limits	8
3.4 Description of Test Methods and Equipment Setup	9
3.5 EUT Configuration During Test.....	12
3.6 EUT Operation Modes.....	12
3.7 Deviations from the Test Standard	12
3.8 Environmental Conditions.....	13
4. TEST RESULTS	14
4.1 Test Results – AC Power Line Conducted Emissions (Unintentional Trans.)	14
4.2 Test Results – Radiated Emissions (Unintentional Transmitter).....	17
5. TEST EQUIPMENT STATUS.....	20
5.1 List of Hardware with Calibration Dates	20
5.2 Software / Firmware Versions.....	21
6. MEASUREMENT UNCERTAINTY	21
6.1 Measurement Uncertainty for Conducted Emissions	21
6.2 Measurement Uncertainty for SAC 5 (Radiated Emissions & Band Edge)	21
7. PHOTOGRAPHS.....	22
7.1 Photographs of the EUT.....	22
7.2 Photographs of the Test Setup.....	23

1. GENERAL INFORMATION

1.1 Test Site

Test Facility:	TÜV Rheinland Sweden AB
Address:	Mobilvägen 10
	223 62 Lund
	Sweden
Swedac Registration Number:	10325
FCC Test Firm Registration Number:	517458
ISED Test Site Registration Number:	24753

1.2 Client Information

Company Name:	Schneider Electric
Address:	Mobilvägen 10
	223 62 Lund
	Sweden
Contact Person:	Fredrik Göth
Contact e-Mail / Telephone	Fredrik.Goth@se.com / +46 104 78 25 91

2. PRODUCT INFORMATION

2.1 General Description

Model name:	SmartX IP Controller
Manufacturer:	Schneider Electric
Model number / Marketing name:	SXWRPC16BLV10001
FCC ID:	DVE-RPC24
Description:	IP based field controller for Building Automation
Ancillary Equipment:	See section 2.7

2.2 Device Characteristics

Device Class for 47 CFR Part 15 B	Class B
Type of Power Supply	External
Nominal Supply Voltage	24VDC
Supply Voltage Range	±15%
Operating Temperature Range	0° to +50°C (32° to 122°F)
Operating Air Humidity Range	Maximum 95% RH non-condensing
Highest Internal Frequency Source	2480 MHz

2.3 Test Samples

EUT #	EUT ID	Description	Used For:
1	A003045983-001	Standard test sample	Radiated emissions Conducted emissions

2.4 Wireless Technologies and Bands Supported by the EUT

Technology	Band	Frequency Range (Tx)	Evaluation Performed*
Bluetooth	2.4 GHz	2402 MHz – 2480 MHz	YES
Zigbee	2.4 GHz	2405 MHz – 2480 MHz	NO

*This statement refers only to this report. Other wireless technologies may be covered by other reports.

2.5 Antenna Information

Technology	Band	Number of Antennas	Antenna Type(s)	Gain
Bluetooth LE	2.4 GHz	2	Integrated	+0.8
Zigbee	2.4 GHz	2	Integrated	+0.8

2.6 Wireless Technology Details

Technology	Band	Modulation Type(s)	No. of Channels	Channel Spacing	Adaptivity
Bluetooth LE	2.4 GHz	GFSK	40	2 MHz	N/A
Zigbee	2.4 GHz	O-QPSK	16	5 MHz	N/A

2.7 Ancillary Equipment

Power supply (AC/DC)
Bus loads 3+3 W
Resistor for output loading
Voltmeter
Second Power supply (AC/DC)
UTP RJ45 cable
USB Load
Resistor for temperature simulation

2.8 EUT Diagrams

N/A

3. TEST METHODS

3.1 Test Standards

Testing was performed according to the following standards / references

Standard	Version	Description
FCC 47 CFR 15.107	-	Conducted limits
FCC 47 CFR 15.109	-	Radiated emission limits

3.2 Additional references

The following standards / references were also considered for the testing

Standard	Version	Description
ANSI C63.4	2014	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz

3.3 Limits

FCC 47 CFR Rule Part	Test Description	Limit Reference (FCC 47 CFR Reference)
15.107	AC Power Line Conducted Emissions (Unintentional Radiators)	15.107 §(a) for Class B Devices§
15.109	Radiated Emissions (Unintentional Radiators)	15.109 §(a) for Class B Devices§ *See Note 1

Interpretation of the measurement results has been performed in accordance with ANSI C63.4 section 10.2.8.2

Compliance with the requirements has been based on the results of the measurements compared to the specified limits, not taking into account measurement instrumentation uncertainty.

Measurement Uncertainty figures are stated in section 6

Note 1

Radiated Emissions limits in the tables from 47 CFR sections 15.109 are presented in $\mu\text{V}/\text{m}$. Measurements on the test system are made in $\text{dB}\mu\text{V}/\text{m}$. To convert between these, the following adjustment is used:

$$\text{New Limit} = 20 \log \left(\frac{\text{Original Limit}}{10^6} \right) + 120$$

Example: from 15.209(a) the limit for 30MHz – 88MHz is $100\mu\text{V}/\text{m}$ at 3m. This gives:

$$\text{New Limit} = 20 \log \left(\frac{100}{10^6} \right) + 120 = 40\text{dB}\mu\text{V}/\text{m} \text{ at } 3\text{m}$$

Additionally, in some cases testing has been performed at distances other than those specified in the tables. When this has occurred, the limits have been adjusted in accordance with the requirements in 47 CFR 15.31, using an extrapolation factor of 40dB/decade at frequencies below 30MHz and 20dB/decade at or above 30MHz

Example: from 15.209(a) the limit for 1.705MHz – 30MHz is $30\mu\text{V}/\text{m}$ (=29.54 $\text{dB}\mu\text{V}/\text{m}$) at 30m

$$\text{Limit}@3\text{m} = \text{Limit}@30\text{m} + 40 \log \left(\frac{30}{3} \right) = 29.54 + 40.00 = 69.54 \text{ dB}\mu\text{V}/\text{m} \text{ at } 3\text{m}$$

Example: from 15.209(a) the limit for 1GHz – 18GHz is $500\mu\text{V}/\text{m}$ (=53.98 $\text{dB}\mu\text{V}/\text{m}$) at 3m

$$\text{Limit}@1\text{m} = \text{Limit}@3\text{m} + 20 \log \left(\frac{3}{1} \right) = 53.98 + 9.54 = 63.52 \text{ dB}\mu\text{V}/\text{m} \text{ at } 1\text{m}$$

3.4 Description of Test Methods and Equipment Setup

3.4.1 General Description

Testing was performed in accordance with the various requirements of ANSI C63.4 and ANSI C63.10. Any deviations from the test methods are described in section 3.7

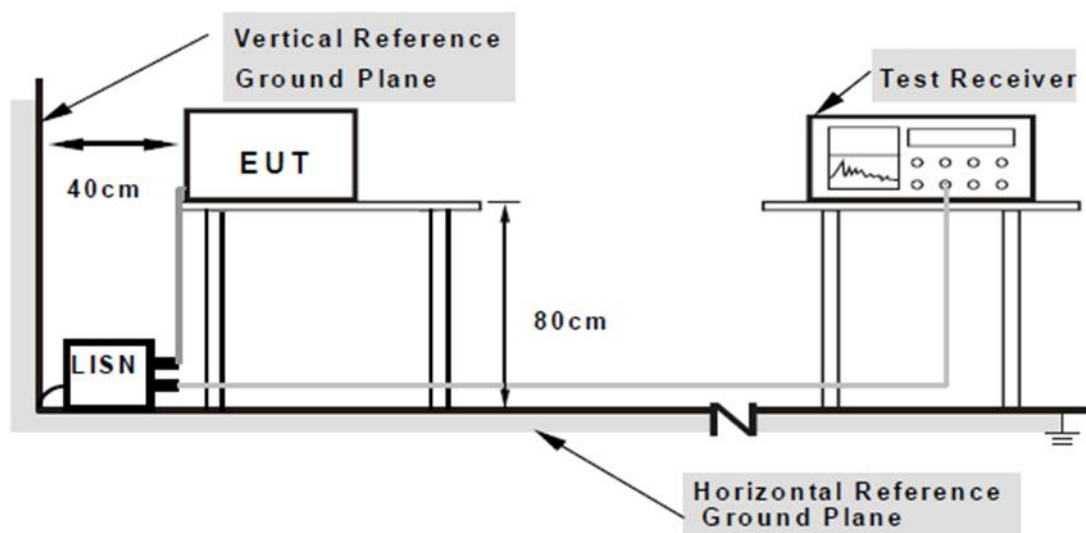
Where different arrangements of equipment were used for different types of measurements, these are tabulated in section 3.4.2 and details of each arrangement are included in subsequent sections

3.4.2 Test Equipment Setup Used by Test Type

FCC 47 CFR Rule Part	Test Description	Test Equipment Used
15.107	AC Power Line Conducted Emissions (Unintentional Radiators)	Conducted Emissions
15.109	Radiated Emissions (Unintentional Radiators)	SAC5

3.4.3 Test Equipment Setup – Conducted Emissions

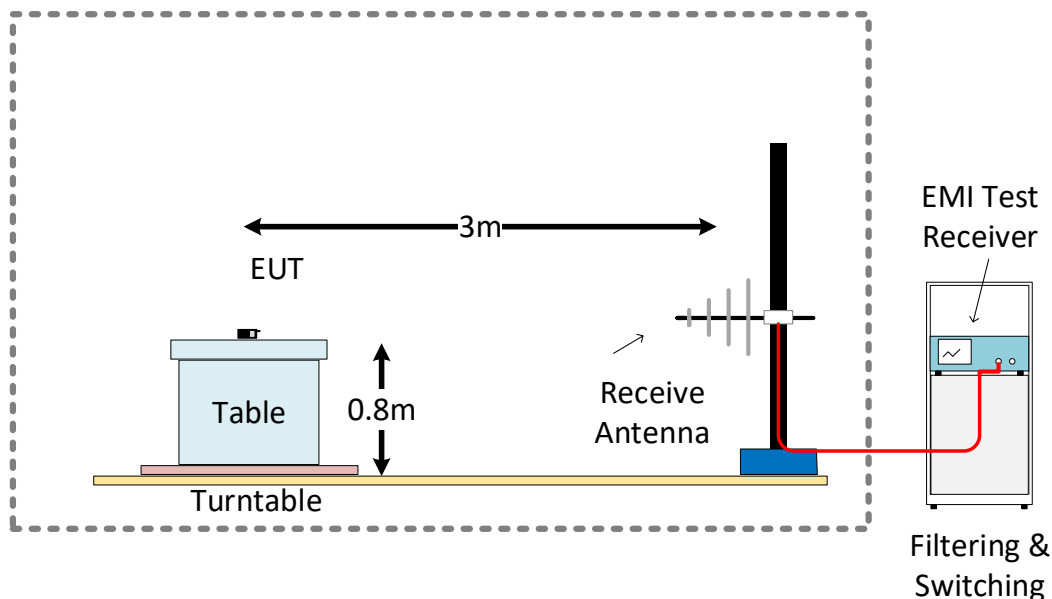
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The LISNs provide 50Ω/ 50μH of coupling impedance for the measuring instrument.
- The lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched. Emission levels over 10 dB under the prescribed limits could not be reported.



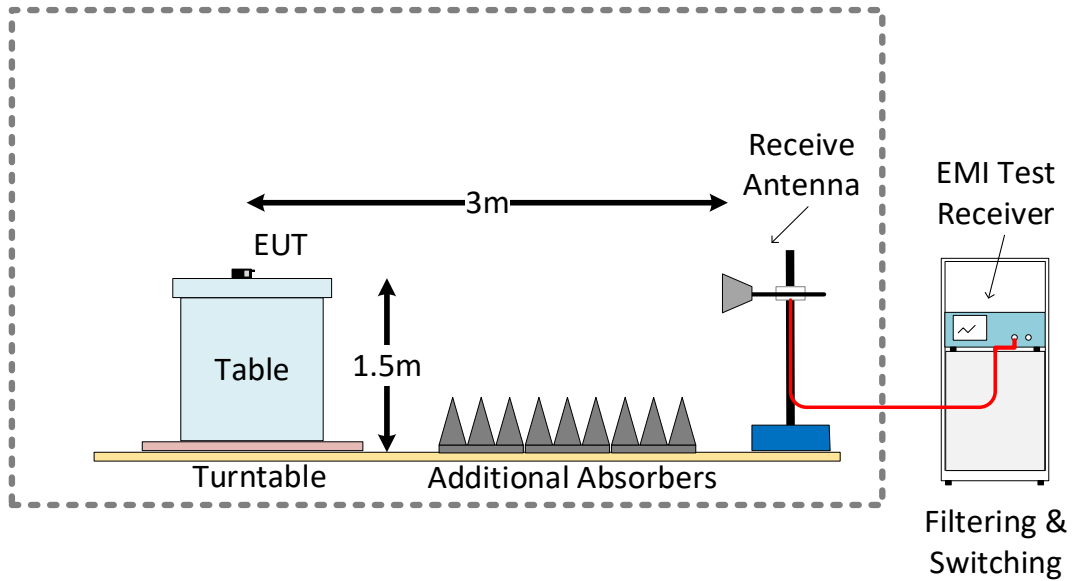
3.4.4 Test Equipment Setup – SAC 5 (Radiated Emissions)

- For frequency range 30MHz-1GHz Log-Periodic Antenna was used. Antenna elevated from 100 cm from floor to 400 cm from floor, and was placed at 3 m from center of turntable in tilted position. The equipment under test (EUT) was placed at the middle of the turntable at 150 cm height from floor. The antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations. Repeat the measurement steps until the maximum emissions were obtained.
- For frequency range 1GHz-18GHz horn Antenna was used. Antenna elevated from 100 cm from floor to 200 cm from floor, and was placed at 3 m from center of turntable. The equipment under test (EUT) was placed at the middle of the turntable at 150 cm height from floor. The antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations. Repeat the measurement steps until the maximum emissions were obtained.
- For frequency range 18GHz-40GHz double horn Antenna was used. Antenna's height was adjusted to 150 cm from floor, and 1 m distance to center of turntable. The equipment under test (EUT) was placed at the middle of the turntable on at 150 cm height from floor.
- For all frequency ranges the turntable was rotated 360° for obtaining the maximum emission.

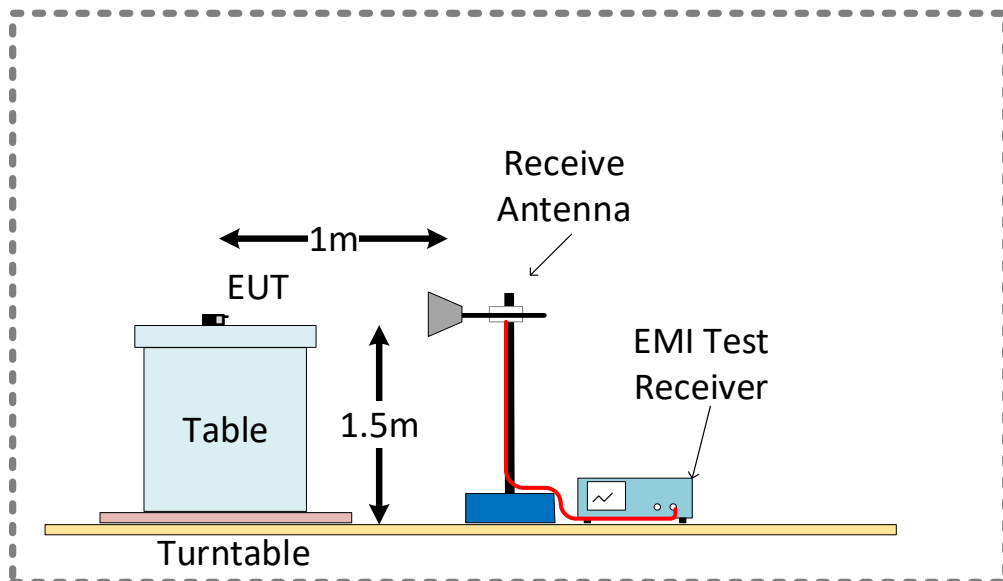
SAC 5 Test Setup Configuration 30MHz – 1GHz



SAC 5 Test Setup Configuration 1GHz – 18GHz



SAC 5 Test Setup Configuration 18GHz – 40GHz



3.5 EUT Configuration During Test

N/A

3.6 EUT Operation Modes

Operation mode	Description
Default	Unit was powered up with all of the ancillaries and set to RX mode.

3.7 Deviations from the Test Standard

None.

3.8 Environmental Conditions

3.8.1 Environmental Conditions – Conducted Emissions System

Environmental Conditions Log – Conducted Emissions

Date	Time	Temperature (°C)	Relative Humidity (%)
2021.05.20	10:15	22.3	44

3.8.2 Environmental Conditions – SAC5 (Radiated Emissions)

Environmental Conditions Log – SAC5

Date	Time	Temperature (°C)	Relative Humidity (%)
2021.05.18	07:35	20.2	42

4. TEST RESULTS

4.1 Test Results – AC Power Line Conducted Emissions (Unintentional Trans.)

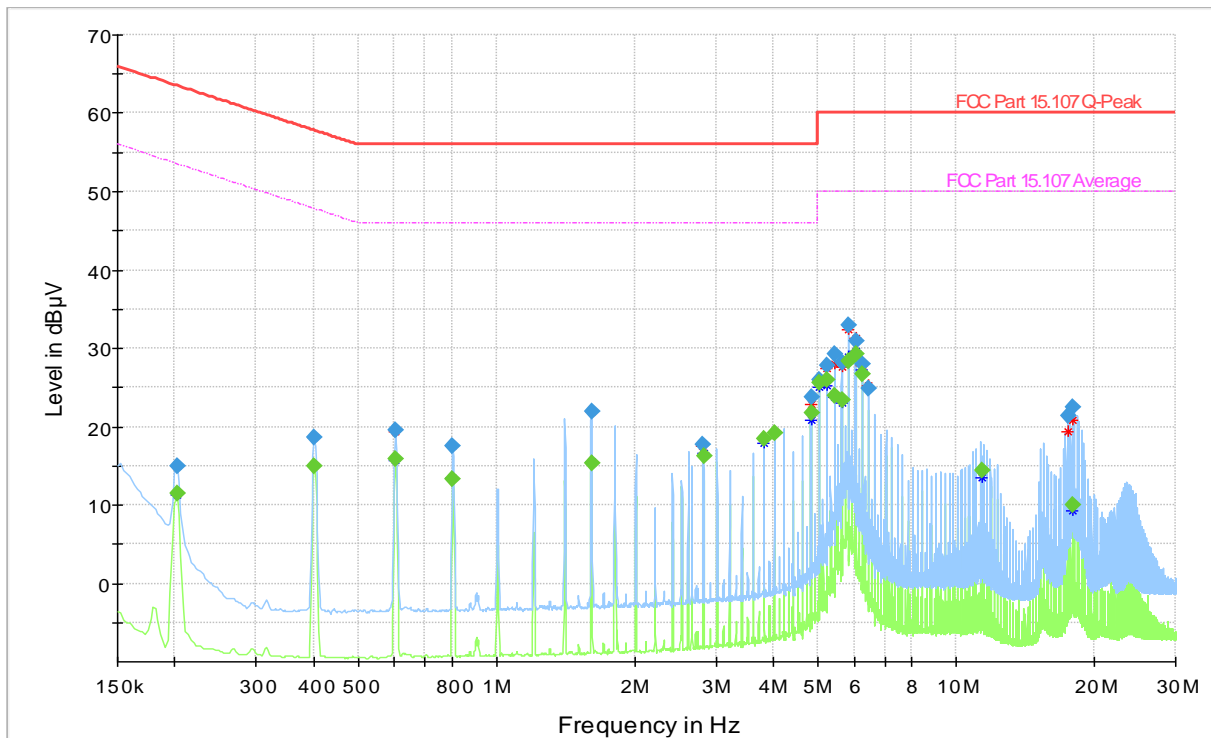
4.1.1 AC Power Line Conducted Emissions (Unintentional) – Test Summary

Test Specification	FCC 47 CFR 15.107 (Part 15 Subpart B)	
Test Engineer & Date	Fariborz Abasi	2021.05.20
EUT and Ancillary Equipment IDs	A003045983-001	See chapter 2.7
EUT Operation Mode(s)	Default	
EUT Wireless Configuration(s)	RX	
EUT Hardware Configuration(s)	N/A	
Overall Result	PASS	
Test Parameter	Frequency Range	Result*
AC Power Line Emissions - Idle Mode	150 kHz – 30 MHz	pASS

* For detailed measurements, see tables and graphs in sections below

4.1.2 AC Power Line Conducted Emissions (Unintentional) – Test Details

Test mode condition	Conducted Emissions	
Sweep frequency	150 kHz – 30 MHz	
Standard	FCC 47 Part 15.107	
EUT	A003045983-001	
Test Engineer	Fariborz Abasi	Date: 2021.05.20



- Preview Result 2-CAV
- Preview Result 1-QPK
- FCC Part 15.107 Q-Peak
- FCC Part 15.107 Average
- ◆ Final_Result QPK
- ◆ Final_Result CAV
- * Critical_Freqs CAV
- * Critical_Freqs QPK

Frequency (MHz)	QuasiPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.201750	---	11.43	53.54	42.10	1000.0	9.000	L1	ON	9.6
0.201750	15.01	---	63.54	48.53	1000.0	9.000	L1	ON	9.6
0.402000	18.56	---	57.81	39.25	1000.0	9.000	N	ON	9.6
0.402000	---	14.99	47.81	32.82	1000.0	9.000	L1	ON	9.6
0.604500	---	15.90	46.00	30.10	1000.0	9.000	N	ON	9.6
0.604500	19.56	---	56.00	36.44	1000.0	9.000	N	ON	9.6
0.804750	17.46	---	56.00	38.54	1000.0	9.000	N	ON	9.6
0.804750	---	13.37	46.00	32.63	1000.0	9.000	N	ON	9.6
1.610250	22.00	---	56.00	34.00	1000.0	9.000	N	ON	9.7
1.610250	---	15.31	46.00	30.69	1000.0	9.000	N	ON	9.7
2.818500	17.62	---	56.00	38.38	1000.0	9.000	L1	ON	9.8
2.820750	---	16.19	46.00	29.81	1000.0	9.000	L1	ON	9.8
3.826500	---	18.45	46.00	27.55	1000.0	9.000	L1	ON	9.8
4.026750	---	19.11	46.00	26.89	1000.0	9.000	L1	ON	9.8
4.832250	23.80	---	56.00	32.20	1000.0	9.000	L1	ON	9.8
4.834500	---	21.67	46.00	24.33	1000.0	9.000	L1	ON	9.8
5.034750	26.04	---	60.00	33.96	1000.0	9.000	L1	ON	9.8
5.034750	---	25.59	50.00	24.41	1000.0	9.000	L1	ON	9.8
5.235000	27.84	---	60.00	32.16	1000.0	9.000	N	ON	9.8
5.237250	---	25.87	50.00	24.13	1000.0	9.000	N	ON	9.8
5.437500	---	23.98	50.00	26.02	1000.0	9.000	L1	ON	9.8
5.437500	29.29	---	60.00	30.71	1000.0	9.000	N	ON	9.8
5.637750	28.14	---	60.00	31.86	1000.0	9.000	N	ON	9.8
5.640000	---	23.48	50.00	26.52	1000.0	9.000	N	ON	9.8
5.840250	---	28.40	50.00	21.60	1000.0	9.000	N	ON	9.8
5.840250	32.87	---	60.00	27.13	1000.0	9.000	N	ON	9.8
6.040500	30.89	---	60.00	29.11	1000.0	9.000	N	ON	9.8
6.042750	---	29.29	50.00	20.71	1000.0	9.000	N	ON	9.8
6.243000	---	26.69	50.00	23.31	1000.0	9.000	L1	ON	9.8
6.243000	27.95	---	60.00	32.05	1000.0	9.000	N	ON	9.8
6.443250	24.91	---	60.00	35.09	1000.0	9.000	N	ON	9.8
11.386500	---	14.44	50.00	35.56	1000.0	9.000	N	ON	9.9
17.517750	21.46	---	60.00	38.54	1000.0	9.000	L1	ON	10.0
17.920500	22.50	---	60.00	37.50	1000.0	9.000	L1	ON	10.0
17.922750	---	10.07	50.00	39.93	1000.0	9.000	L1	ON	10.0

4.2 Test Results – Radiated Emissions (Unintentional Transmitter)

4.2.1 Radiated Emissions (Unintentional) – Test Summary

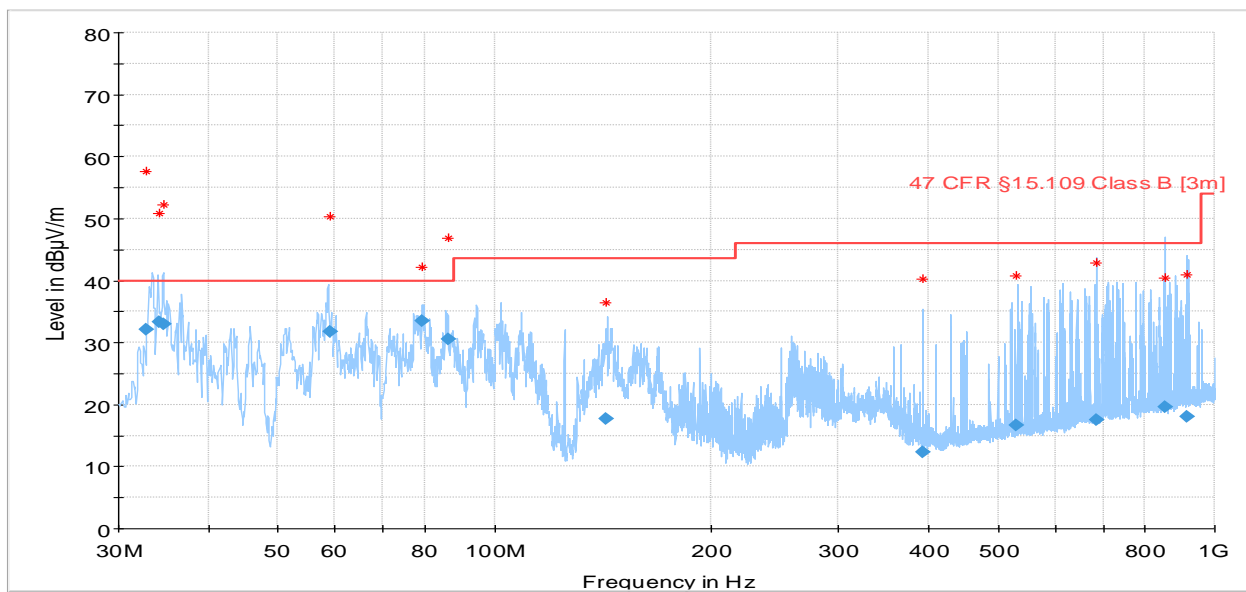
Test Specification	FCC 47 CFR 15.109 (Part 15 Subpart B)	
Test Engineer & Date	Niall Forrester	2021.05.18
EUT and Ancillary Equipment IDs	A003045983-001	See chapter 2.7
EUT Operation Mode(s)	Default	
EUT Wireless Configuration(s)	RX	
EUT Hardware Configuration(s)	N/A	
Overall Result	PASS	
Test Parameter	Frequency Range	Result*
Radiated Emissions - Idle Mode	30 MHz – 1 GHz	PASS
Radiated Emissions - Idle Mode	1 GHz – 18 GHz	PASS

* For detailed measurements, see tables and graphs in sections below

4.2.2 Radiated Emissions (Unintentional) – Test Details

30MHz – 1GHz

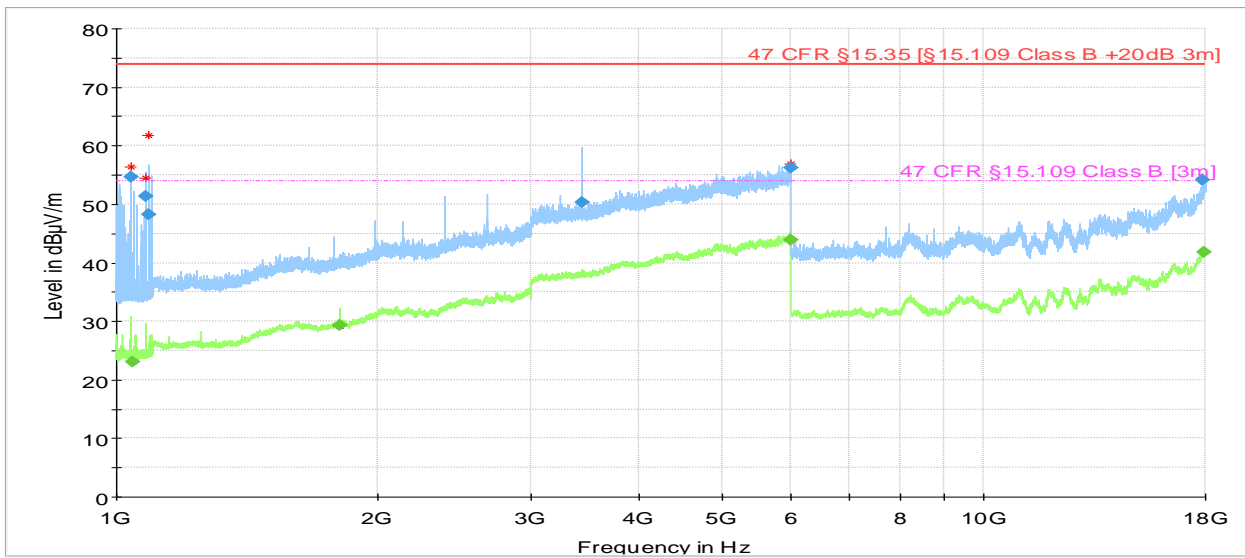
Test mode condition	Idle mode	
Antenna orientation	Horizontal and Vertical	
Sweep frequency	30 MHz – 1 GHz	
Standard	47 CFR FCC Part 15 subpart B	
EUT	A003045983-001	
Test Engineer	Niall Forrester	Date: 2021-05-18
Chamber details	Chamber: SAC 5	



Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
32.803400	32.08	40.00	7.92	1000.0	120.000	108.0	V	116.0
34.168080	33.38	40.00	6.62	1000.0	120.000	108.0	V	158.0
34.718040	33.02	40.00	6.98	1000.0	120.000	125.0	V	22.0
59.030000	31.83	40.00	8.17	1000.0	120.000	325.0	V	109.0
79.245240	33.54	40.00	6.46	1000.0	120.000	203.0	V	338.0
86.202280	30.57	40.00	9.43	1000.0	120.000	125.0	V	86.0
142.853640	17.64	43.52	25.88	1000.0	120.000	125.0	V	26.0
393.029280	12.30	46.02	33.72	1000.0	120.000	404.0	V	22.0
531.010400	16.72	46.02	29.30	1000.0	120.000	108.0	H	288.0
684.224520	17.53	46.02	28.49	1000.0	120.000	175.0	V	232.0
852.702160	19.58	46.02	26.44	1000.0	120.000	100.0	H	310.0
916.792840	17.97	46.02	28.05	1000.0	120.000	383.0	V	199.0

1GHz – 18GHz

Test mode condition	Idle mode	
Antenna orientation	Horizontal and Vertical	
Sweep frequency	1 GHz – 18 GHz	
Standard	47 CFR FCC Part 15 subpart B	
EUT	A003045983-001	
Test Engineer	Niall Forrester	Date: 2021-05-19
Chamber details	Chamber: SAC 5	



Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
1041.066000	54.74	---	73.98	19.24	1000.0	1000.000	215.0	V	266.0
1041.824000	---	23.08	53.98	30.90	1000.0	1000.000	215.0	V	278.0
1079.708000	51.41	---	73.98	22.57	1000.0	1000.000	215.0	V	128.0
1087.919000	48.19	---	73.98	25.79	1000.0	1000.000	315.0	V	-4.0
1805.804000	---	29.39	53.98	24.59	1000.0	1000.000	193.0	H	222.0
3444.830000	50.28	---	73.98	23.70	1000.0	1000.000	385.0	H	322.0
5982.596000	---	43.84	53.98	10.14	1000.0	1000.000	143.0	V	86.0
5996.045020	56.30	---	73.98	17.67	1000.0	1000.000	215.0	V	308.0
17853.356000	54.18	---	73.98	19.80	1000.0	1000.000	410.0	H	172.0
17954.062000	---	41.79	53.98	12.19	1000.0	1000.000	385.0	H	8.0

5. TEST EQUIPMENT STATUS

5.1 List of Hardware with Calibration Dates

5.1.1 Hardware List – Conducted Emissions System

Type	Manufacturer	Model	Serial Number / ID	Calibration Date	Calibration Due
Two-Line V-network	Rohde & Schwarz	ENV216	101090 2704076	2020.07.16	2021.07.16
Test Receiver 9KHz to 3.5 GHz	Rohde & Schwarz	ESR3	101674 2704016	2020.07.17	2021.07.17

5.1.2 Hardware List – SAC5 System

Type	Manufacturer	Model	Serial Number / ID	Calibration Date	Calibration Due
EMI Test Receiver	Rohde & Schwarz	ESW44	101760 2881044	2020.07.17	2021.07.17
Ultra Broadband Antenna	Rohde & Schwarz	HL562E	100988 2823181	2019.07.23	2021.07.23
Double Ridged Waveguide Horn Antenna	Rohde & Schwarz	HF907	102678 2823164	2019.07.15	2021.07.15
Control Device	Maturo	NCD	NCD/393/2372.01	N/A	N/A
Open Switch & Control Unit	Rohde & Schwarz	OSP150	100081 2884198	2020.08.04	2021.08.04
Open Switch & Control Unit	Rohde & Schwarz	OSP120	100084 2761253	2020.08.04	2021.08.04
Shielded Filter Unit	Rohde & Schwarz	OSP-F Extension 1	101333 2761265	2020.08.04	2021.08.04
Shielded Filter Unit	Rohde & Schwarz	OSP-F Extension 2	101335 2761266	2020.08.04	2021.08.04
Shielded Filter Unit	Rohde & Schwarz	OSP-F Base Unit	101330 2761262	2020.08.04	2021.08.04
Humidity Temperature Probe	Lufft	OPUS 20	126.0118.0802.033 2771042	2020.07.31	2022.07.31

5.2 Software / Firmware Versions

Equipment	Software / Firmware Name	Version
Conducted Emissions System	EMC 32	V10.60.10
SAC 5	EMC 32	V10.60.10

6. MEASUREMENT UNCERTAINTY

6.1 Measurement Uncertainty for Conducted Emissions

Parameter	Uncertainty (Coverage Factor k=2)
Conducted emissions with LISN 150KHz to 30 MHz	2.98 dB

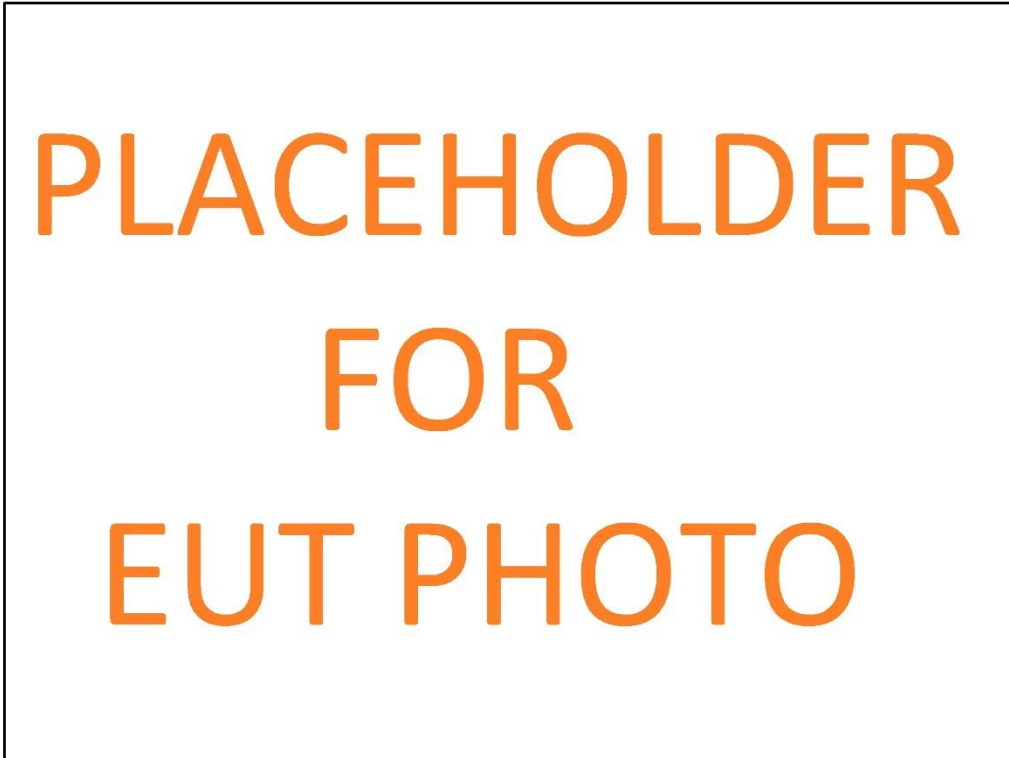
6.2 Measurement Uncertainty for SAC 5 (Radiated Emissions & Band Edge)

Parameter	Uncertainty (Coverage Factor k=2)
Field Strength 10 Hz -9 kHz	3.38 dB
Field Strength 9 kHz -30 MHz	3.38 dB
Field Strength 30 MHz -1000 MHz	3.38 dB
Field Strength 1 GHz -18 GHz	4.88 dB
Field Strength 18 GHz - 40 GHz	5.14 dB

7. PHOTOGRAPHS

7.1 Photographs of the EUT

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7.2 Photographs of the Test Setup

§TITLE FOR PHOTOGRAPH

