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Test report

Number	**T251-0374/25**	Project file: C20250740 Date: 2025-05-13 Pages: 28
Product:	**Notecard**	
Type reference:	NOTE-WBNAWT	
Ratings:	VIO - 1.8 V or 3.3 V; 150 mA VMODEM - 2.5 V to 5.5 V; 750 mA (powered directly from a development board and AC/DC power supply delivering 5 V d.c. to the board)	
Trademark:	/	
Applicant:	**Blues Inc.** **Harbor Street 50, 01944 Manchester, USA**	
Manufacturer:	Blues Inc. Harbor Street 50, 01944 Manchester, USA	
Place of manufacture:	Microtronics Technology Sdn. Bhd. 10 & 10A, Jalan Bayu, Kawasan Perindustrian Hasil, 81200 Johor Bahru, Johor, Malaysia	

Summary of testing

Testing method:	47 CFR Part 15, Subpart B (Clause 15.107 and 15.109) last amended 2025-01-06 in conjunction with ANSI C63.4:2014 ICES-003, issue 7 in conjunction with ICES-Gen, Issue 2 and ANSI C63.4-2014 amended as per ANSI C63.4a-2017
Testing location:	SIQ Ljubljana Mašera-Spasićeva ulica 10, SI-1000 Ljubljana, Slovenia FCC designation number: SI0001 ISED Conformity Assessment Body Identification Number: SI0001
Remarks:	Date of receipt of test items: 2025-03-19 Number of items tested: 1 Date of performance of tests: 2025-03-25 – 2025-04-22 The test results presented in this report relate only to the items tested. The test items were tested in the condition as received. The product complies with the requirements of the testing methods.

Tested by: Aljaž Bajec

Approved by: Marjan Mak

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1. General

Abbreviations and markings:

Port	Physical interface through which electromagnetic energy enters or leaves the EUT
AE associated equipment	Equipment needed to exercise and/or monitor the operation of the EUT
EUT	Equipment Under Test
Highest internal frequency (*Fx*)	Highest fundamental frequency generated or used within the EUT or highest frequency at which it operates
RF	Radio Frequency

Possible test case verdicts:

Test does not apply to the tested sample:	N/A
Tested sample passed the requirements:	P (Pass)
Tested sample failed the requirements:	F (Fail)
Test was not performed:	N/P (Not performed)

Throughout this report a comma is used as the decimal separator. Numerical data taken from IEC standards are using a comma as the decimal separator.

History sheet:

Date:	**Report No.:**	**Change:**	**Revision:**
2025-05-13	T251-0374/25	Initial Test Report issued.	--

2. Measurement uncertainty

The following measurement uncertainty levels have been calculated according to the SIQ internal document EN208, as specified in CISPR 16-4-2 and EN 55016-4-2. The uncertainties represent an expanded uncertainty expressed at 95% confidence level using a coverage factor k=2.

The following measurement uncertainty has been included in test results as specified in each of the basic referenced standards as applicable.

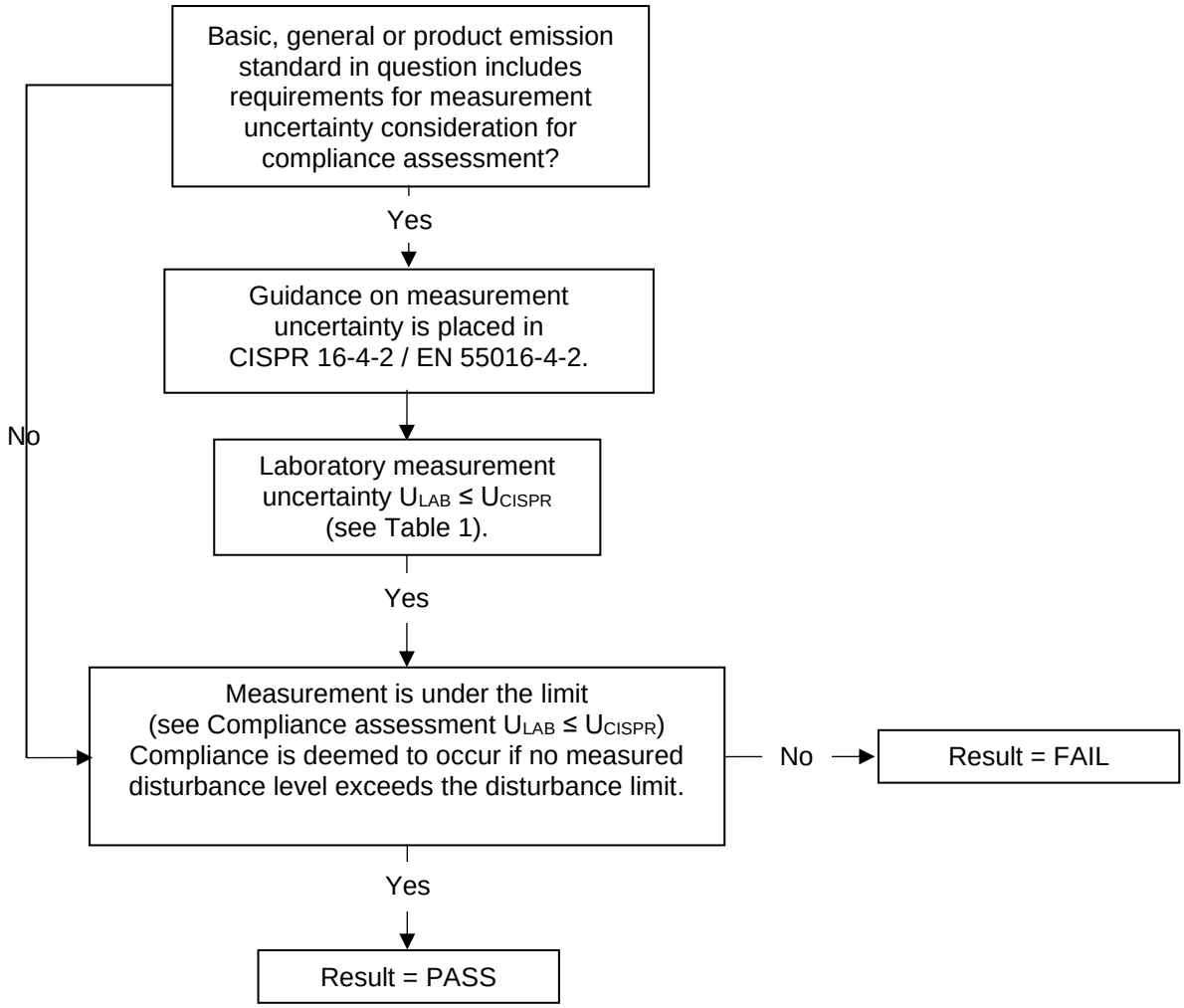
Measurement / test method	**U_{LAB}**	**U_{CISPR}**
Conducted emission measurement (150 kHz to 30 MHz)	2,7 dB	3,4 dB
Radiated emission measurement (electric field strength at an OATS or in a SAC) - (30 MHz to 1000 MHz)	5,3 dB	6,3 dB
Radiated disturbance (electric field strength in a FAR) – (1-6 GHz)	4.4	5.2
Radiated disturbance (electric field strength in a FAR) – (6-18 GHz)	5.2	5.5
Radiated disturbance (electric field strength in a FAR) – (18-26 GHz)	5.0	N/A
Radiated disturbance (electric field strength in a FAR) – (26-40 GHz)	5.7	N/A

3. Decision rule

Application of decision rule and statement of conformity is defined in document TN023 Decision rule and measurement uncertainty.

As a general rule Pass/Fail decisions are based on simple acceptance rule and acceptance limits chosen based on simple acceptance (w = 0, AL = TL) except if a decision rule is governed by particular standard or guidance document.

Decision rule applicable for emission:



4. Product specific data

General description of test item:

The device is a data-pump to be built into other Devices. It features LTE and WiFi connectivity.

Product key:

NOTE-WBNAWT contains Telit LE910C1-SAXD LTE module and SiLabs WFM200S Wi-Fi module.

Power supply type:	Powered with AC/DC power supply and 5 V d.c. from the development board			
Contains FCC ID:	Telit LE910C1-SAXD: RI7LE910CXSAX			
	SiLabs WFM200S: QOQWFM200			
Contains IC:	Telit LE910C1-SAXD: 5131A-LE910CXSAX			
	SiLabs WFM200S: 5123A-WFM200			
ICES category equipment	Category II			
Hardware version:	2.4			
Firmware/software version:	7			
Mounting position:	☒	Table-top equipment:		
	☐	Floor-standing equipment:		
	☐	Wall/ceiling mounted equipment:		
	☐	Hand-held equipment:		
	☐	Other:		
Highest Internal Operating Frequencies:	Name:		LTE module:	Frequency:
	Maximum clock transmission frequency that of the LTE module		Telit LE910C1-SAXD	2690 MHz

Port(s):

Port No.	Name	Type	Cable Length / m	Cable Shielded
0	Enclosure	N/E	/	/
1	AC power supply	AC	/	/
Note:	AC = AC mains power port DC = DC power port of the EUT I/O = Signal/control port WNP = wired network port GND = grounding N/E = Non-Electrical			

Configuration diagram:

/

Copy of marking plate:

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

Information to the user acc. to 47 CFR Part 15, Subpart B:

Clause	Requirement	Result - Remark	Verdict
§ 15.105	**Information to the user**		
15.105 (a)	For a Class A digital device or peripheral, the instructions furnished the user shall include the statement specified in 15.105 (a), placed in a prominent location in the text of the manual.	Not Class A digital device.	N/A
15.105 (b)	For a Class B digital device or peripheral, the instructions furnished the user shall include the statement specified in 15.105 (b), placed in a prominent location in the text of the manual.	Class B digital device. The product is not an end device and is only supplied with the final product it is intended to charge.	P

The Class A statement cautions that operation of the device in a residential area is likely to cause harmful interference.

The Class B statement offers several suggestions for minimizing interference to radio or TV receivers. including reorienting the receiving antenna and moving the Class B device farther away from the receiver.

Labelling and user manual requirements acc. to ICES-003 issue 7:

Clause	Requirement	Result - Remark	Verdict
4.2	**Labelling and user manual requirements**		
	ISED compliance label specified below shall be placed on the marking plate or manual: CAN ICES-003(*) / NMB-003(*) * Insert either “A” or “B”, but not both, to identify the applicable Class of the device used for compliance verification.	Acc. to clause 1.2.2 external power supplies marketed together with end ITE equipment need not be labelled as specified in 4.2. The labelling requirement is normative for the ITE or digital apparatus itself, but optional for the external power supply/converter that is marketed together with that ITE or digital apparatus	P

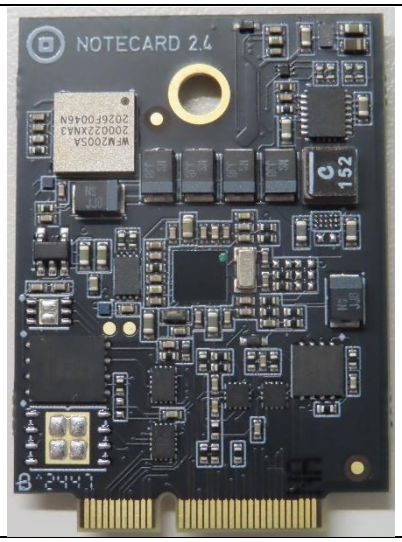
NOTE: The information in this section has been provided by the applicant.

5. Equipment under test (EUT)

Product Type	Device	Manufacturer	Model No.	Comments
EUT	Notecard	Blues Inc.	NOTE-WBNAWT	/
AE	Development board	/	NOTECARRIER – D V1.6	/
AE	Power supply	Rigol	DP832	/
Note:	EUT = Equipment Under Test AE = Associated Equipment			

Pictures of EUT:





Pictures of associated equipment:

See pictures of test setups

Operating conditions:

Clause	Test	Connection type	Operating conditions
9.1	Conducted emission measurement	Single phase	120 V; 60 Hz supplied to AC/DC power supply with 5 V d.c. to the development board
9.2	Radiated emission measurement	Single phase	120 V; 60 Hz supplied to AC/DC power supply with 5 V d.c. to the development board

Operating modes:

No.	Operating mode
1	Command mode modem-test. Transmission from the LTE module is not enabled. Notecard is working as intended with LTE module turned on in standby.
2	Wi-Fi mode is achieved by pressing button on NOTECARD.

Tested sample:

Sample number	Used for measurement
S202501651	All measurements

6. Testing summary section

STANDARDS (details on first page)	PERFORMED[1)]	CONCLUSION[1)]
47 CFR Part 15, Subpart B	YES	P
ICES-003	YES	P
[1)] See details in table(s) below		

Referenced standard:	47 CFR Part 15, Subpart B (Clause 15.107) in conjunction with ANSI C63.4:2014			
Test (emission)	**Clause within standard**	**Clause within the report**	**Class**	**Conclusion**
Conducted emission measurement	Clause 15.107 of 47 CFR Part 15	9.1	B	P
Radiated emission measurement	Clause 15.109 of 47 CFR Part 15	9.2	B	P

Referenced standard:	ICES-003, issue 7 in conjunction with ICES-Gen, Issue 2 and ANSI C63.4:2014 amended as per ANSI C63.4a-2017			
Test (emission)	**Clause within standard**	**Clause within the report**	**Class**	**Conclusion**
Conducted emission measurement	Clause 3.2.1 of ICES-003	9.1	B	P
Radiated emission measurement	Clause 3.2.2 of ICES-003	9.2	B	P

NOTE: no non-standard test method used

7. Environmental conditions

The climatic conditions during the tests were within the following limits:

Ambient temperature: 15 °C to 35 °C
Relative humidity: 15 % to 75 %
Atmospheric pressure: 860 mbar to 1060 mbar

8. LIMITS

8.1 Conducted emission limits

8.1.1 Limits according to 47 CFR Part 15.107 and ICES-003

CLASS B limits:

Frequency Range (MHz)	Limits (dBµV)	
	Quasi-peak	Average
0.15 to 0.5	66 – 56*	56 – 46*
0.5 to 5.0	56	46
5.0 to 30.0	60	50

* Decreases with the logarithm of the frequency.

CLASS A limits:

Frequency Range (MHz)	Limits (dBµV)	
	Quasi-peak	Average
0.15 to 0.5	79	66
0.5 to 30.0	73	60

8.2 Radiated emission limits

8.2.1 Required highest measurement frequency for radiated emissions:

Highest internal frequency (F_X)	Highest measurements frequency (F_M)
$F_X \leq 108$ MHz	1 GHz
108 MHz < $F_X \leq 500$ MHz	2 GHz
500 MHz < $F_X \leq 1$ GHz	5 GHz
$F_X > 1$ GHz	5 x F_X up to a maximum of 40 GHz

8.2.2 Limits according to 47 CFR Part 15.107

CLASS B limits:

Frequency Range (MHz)	Limits (dBµV/m) 3 m distance	
30 to 88	40	Quasi Peak
88 to 216	43.5	
216 to 960	46	
960 to 1000	54	
above 1000	54	Average
above 1000	74	Peak

CLASS A limits:

Frequency Range (MHz)	Limits (dBµV/m) 10 m distance	
30 to 88	39.1	Quasi Peak
88 to 216	43.5	
216 to 960	46.4	
960 to 1000	49.5	
above 1000	49.5	Average
above 1000	69.5	Peak

8.2.3 Limits according to ICES-003

Frequency range 30 MHz – 1 GHz:

Frequency Range (MHz)	Class A		Class B	
	3 m distance Quasi-peak (dBµV/m)	10 m distance Quasi-peak (dBµV/m)	3 m distance Quasi-peak (dBµV/m)	10 m distance Quasi-peak (dBµV/m)
30 - 88	50.0	40.0	40.0	30.0
88 - 216	54.0	43.5	43.5	33.1
216 - 230	56.9	46.4	46.0	35.6
230 - 960	57.0	47.0	47.0	37.0
960 - 1000	60.0	49.5	54.0	43.5

Frequency range at and above 1 GHz; 3 m distance:

Frequency range (GHz)	Class A		Class B	
	Average dB(µV/m)	Peak dB(µV/m)	Average dB(µV/m)	Peak dB(µV/m)
1 - F_M	60	80	54	74

9. Test results

9.1 Conducted emission measurement

9.1.1 Test procedure

- **For equipment tested as table-top:**
  The EUT is placed on a non-conductive 0.8 meters high table, 0.4 meters from the vertical conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). LISN provide 50 Ohm / 50 μH + 5 Ohm of coupling impedance for the measuring instrument.

- **For equipment tested as floor-standing:**
  The EUT is placed on a non-conductive 0.1 meters high support, 0.4 meters from the vertical conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). LISN provide 50 Ohm / 50 μH + 5 Ohm of coupling impedance for the measuring instrument.

- Sufficient time for the EUT, support equipment, and test equipment was allowed, for them to warm up to their normal operating condition.

- If device is a DC powered device with no dedicated AC/DC power converter, a random converter is provided to the test set-up.

- AC power lines of EUT are checked for maximum conducted interference.

- The frequency range from 150 kHz to 30 MHz is searched using PEAK, QUASI-PEAK and AVERAGE function of the receiver.

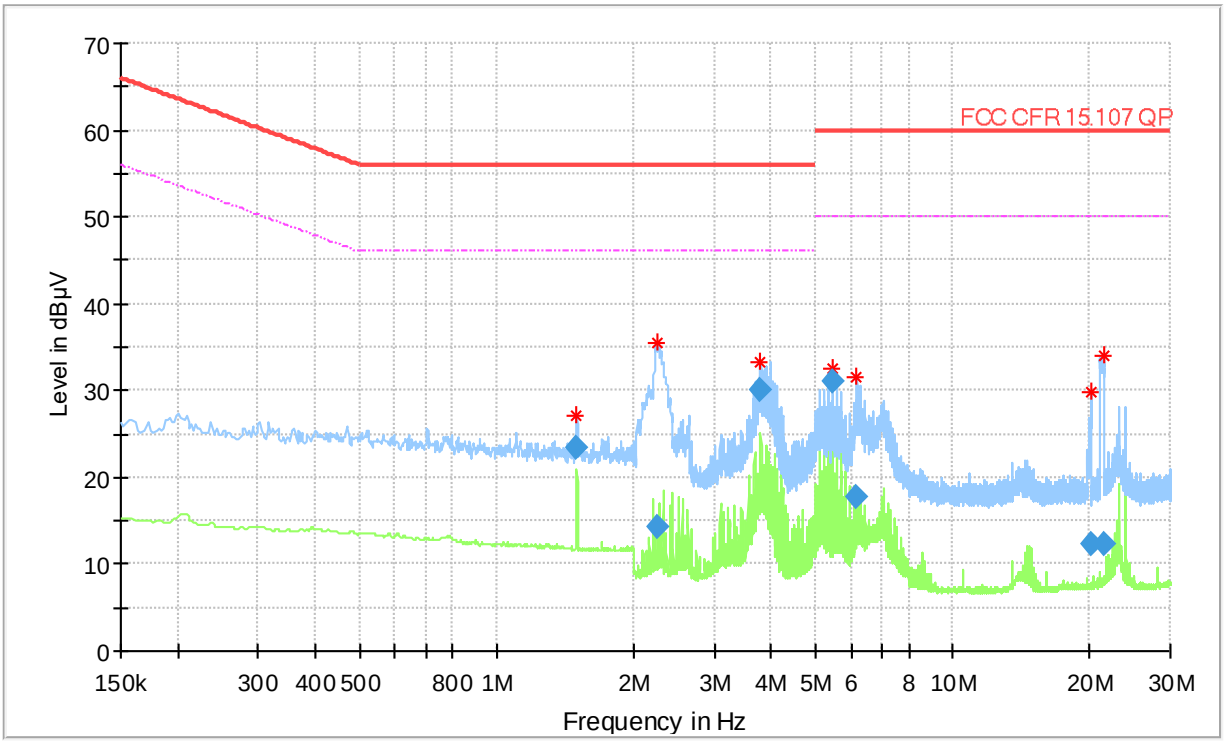
- If applicable functions are changed (data transfer speed, clock speed.…) it should be noted in the test report.

9.1.2 Test results according to 47 CFR Part 15.107 and ICES-003

Operating mode(s):	1

EUT Information

EUT: NOTE-WBNAWT
Operating mode: Uin: 120V / 60 Hz
Lines L + N



Preview Result 2-AVG
Preview Result 1-PK+
Critical_Freqs AVG
Critical_Freqs PK+
FCC CFR 15.107 QP
FCC CFR 15.107 AV
Final_Result QPK
Final_Result CAV

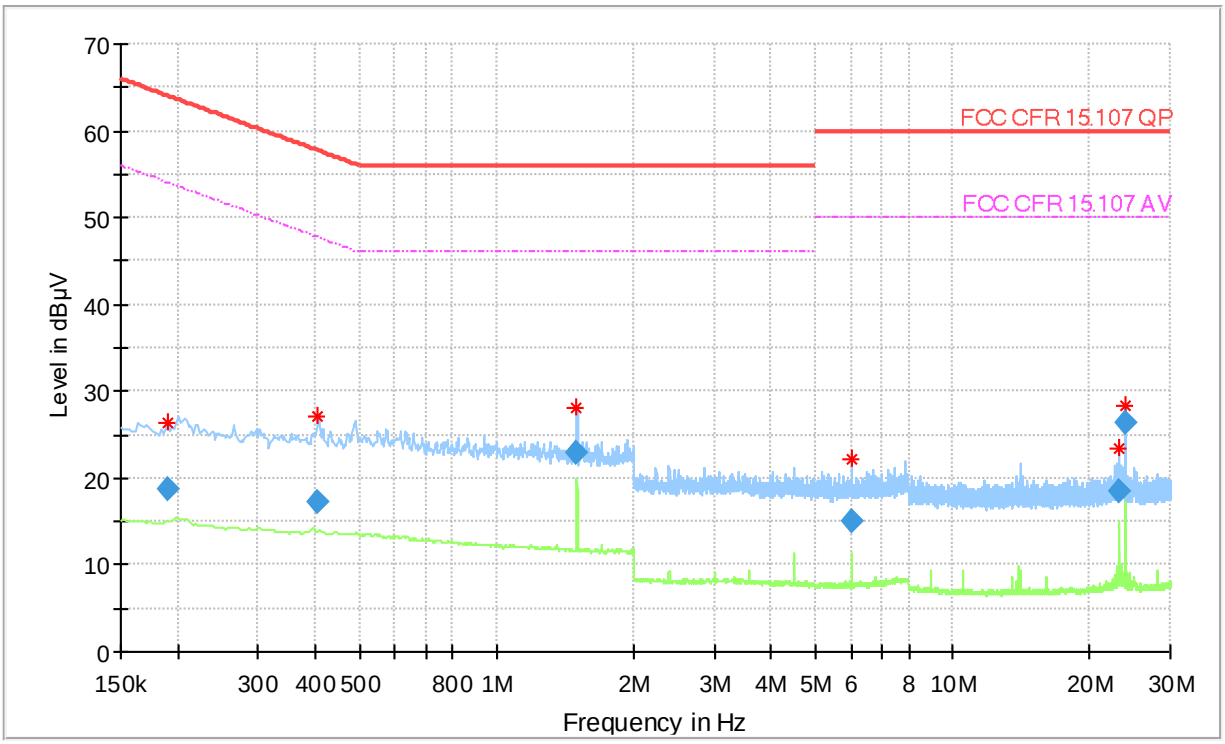
Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
3.797250	30.15	---	56.00	25.85	1000.0	9.000	L1	ON	9.8
5.473500	31.06	---	60.00	28.94	1000.0	9.000	L1	ON	9.8
1.500000	23.35	---	56.00	32.65	1000.0	9.000	L1	ON	9.8
2.258250	14.26	---	56.00	41.74	1000.0	9.000	N	ON	9.8
6.173250	17.67	---	60.00	42.33	1000.0	9.000	L1	ON	9.7
21.396750	12.45	---	60.00	47.55	1000.0	9.000	L1	ON	9.9
20.152500	12.32	---	60.00	47.68	1000.0	9.000	L1	ON	9.9

Operating mode(s):	2

EUT Information

EUT: NOTE-WBNAWT
Operating mode: Uin: 120V / 60 Hz
Lines L + N



Preview Result 2-AVG
Critical_Freqs PK+
Final_Result QPK
Preview Result 1-PK+
FCC CFR 15.107 QP
Final_Result CAV
Critical_Freqs AVG
FCC CFR 15.107 AV

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
1.500000	22.91	---	56.00	33.09	1000.0	9.000	L1	ON	9.8
24.000000	26.33	---	60.00	33.67	1000.0	9.000	N	ON	10.0
0.406500	17.33	---	57.72	40.39	1000.0	9.000	N	ON	10.1
23.129250	18.58	---	60.00	41.42	1000.0	9.000	N	ON	10.0
5.997750	14.92	---	60.00	45.08	1000.0	9.000	L1	ON	9.7
0.190500	18.68	---	64.02	45.33	1000.0	9.000	N	ON	10.0

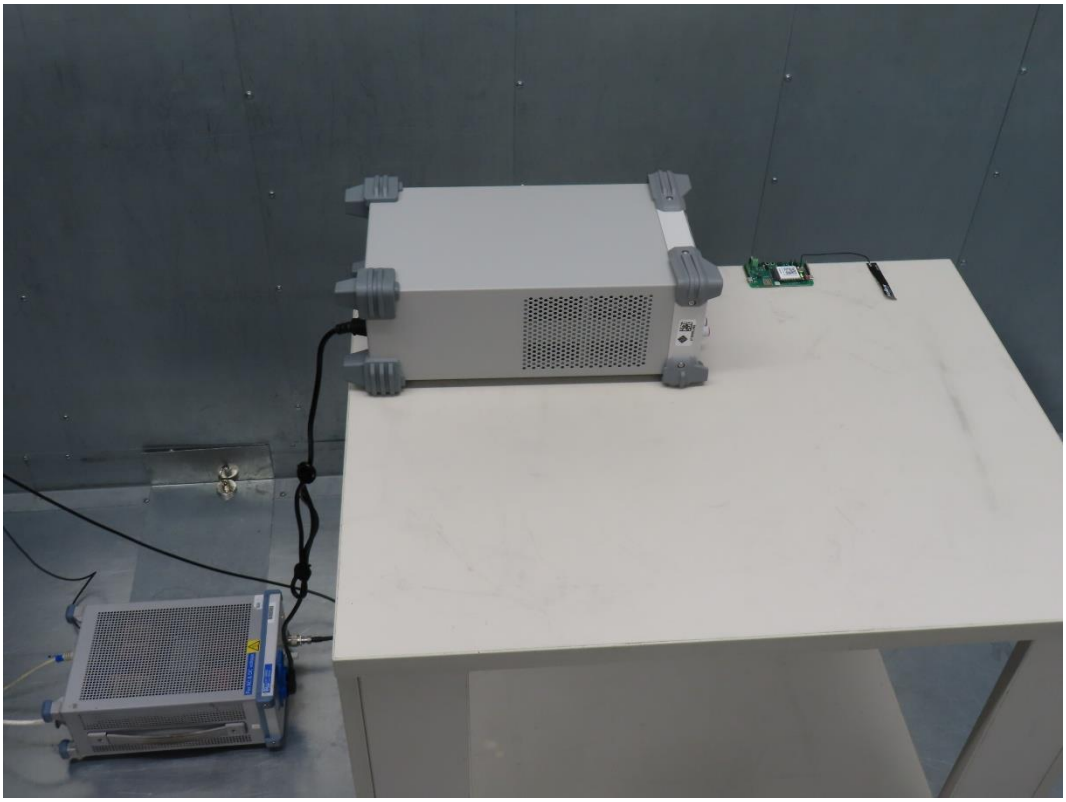


Figure 1: Test setup for conducted emission measurement

9.2 Radiated emission measurement

9.2.1 Test procedure

- **For equipment tested as table-top:**
  The EUT is placed on a non-conductive 0.8 meters high table with EUT being directly or via AC/DC power supply connected to the power mains.

- **For equipment tested as floor-standing:**
  The EUT is placed on a non-conductive 0.1 meters high table with EUT being directly or via AC/DC power supply connected to the power mains.

- The EUT is set 3 m away from the interference-receiving antenna, which was mounted on the top of variable-height antenna tower.

- The antenna is a broadband antenna, and its 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.

- For each suspected emission, the EUT is arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the turn table is turned from 0 degrees to 360 degrees to find the maximum reading.

- The test-receiver system is set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

- The highest points are to be re-tested one by one using the quasi-peak method.

- In case of a Class A device in frequency range of up to 1 GHz, a calculation of highest 5 points is made from 3m to a 10 m distance. For points over 10 dB under the limit, the calculation is not performed.

- CMAD has not been applied in test setup.

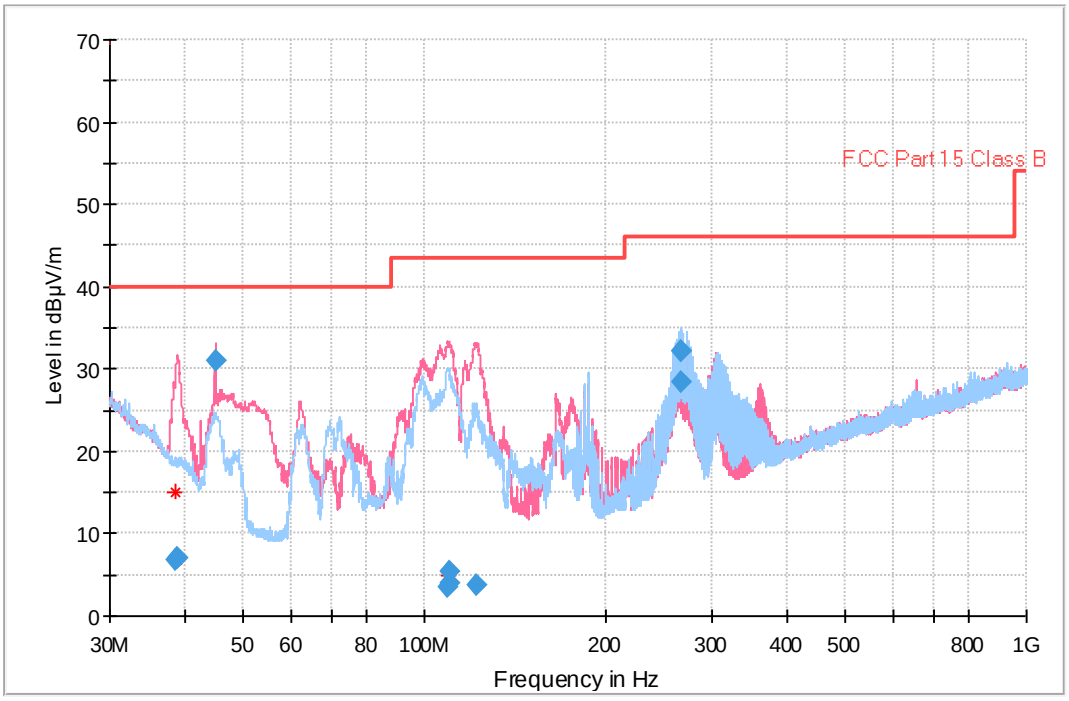
9.2.2 Test results according to 47 CFR Part 15.109

Operating mode(s):	1

EUT Information

EUT: NOTE-WBNAWT
Operating mode: Uin: 120V / 60 Hz, LTE

Full Spectrum



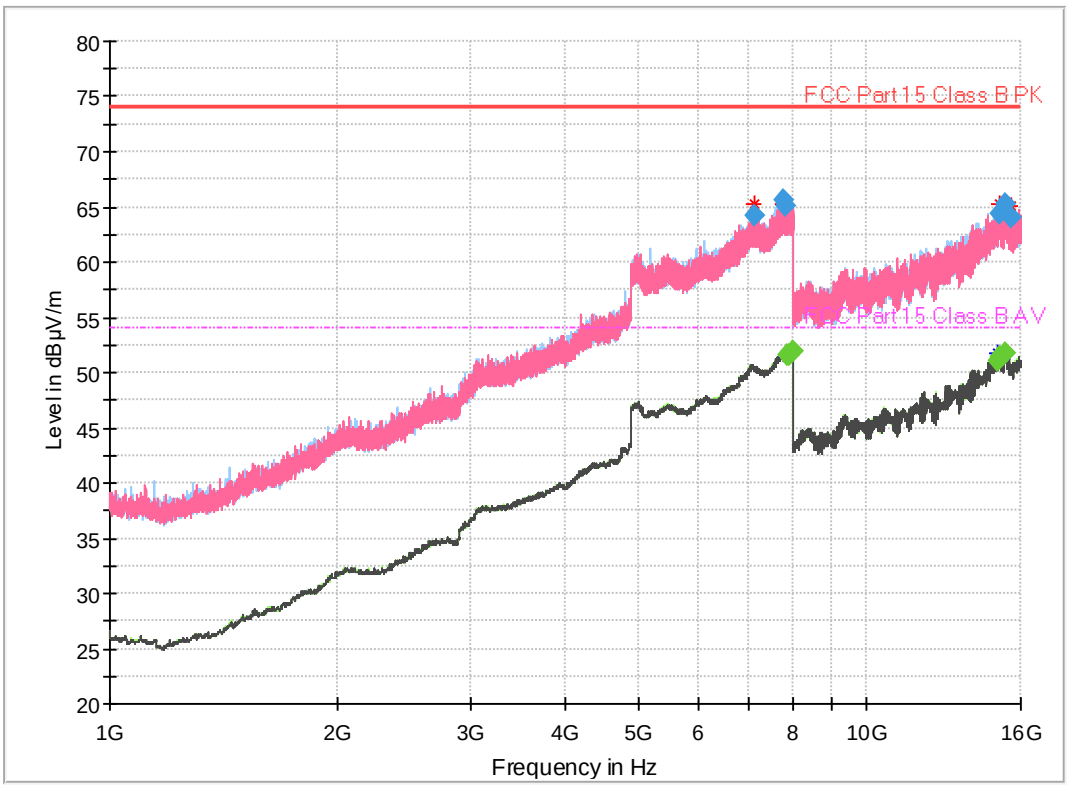
Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/
44.910000	31.01	40.00	8.99	10000.0	120.000	100.0	V	12.0	10.8
267.030000	32.16	46.00	13.84	10000.0	120.000	100.0	H	357.0	11.6
266.970000	32.15	46.00	13.85	10000.0	120.000	100.0	H	346.0	11.6
267.120000	28.51	46.00	17.49	10000.0	120.000	100.0	H	346.0	11.6
38.880000	7.05	40.00	32.95	10000.0	120.000	100.0	V	287.0	14.5
38.790000	6.96	40.00	33.04	10000.0	120.000	100.0	V	287.0	14.6
38.640000	6.88	40.00	33.12	10000.0	120.000	100.0	V	287.0	14.7
109.710000	5.47	43.50	38.03	10000.0	120.000	242.0	V	174.0	11.6
109.890000	3.93	43.50	39.57	10000.0	120.000	241.0	V	174.0	11.6
121.950000	3.80	43.50	39.70	10000.0	120.000	238.0	V	174.0	11.4
109.050000	3.48	43.50	40.02	10000.0	120.000	242.0	V	174.0	11.7

EUT Information

EUT: NOTE-WBNAWT
Operating mode: Uin: 120V / 60 Hz, LTE

Full Spectrum



Final_Result

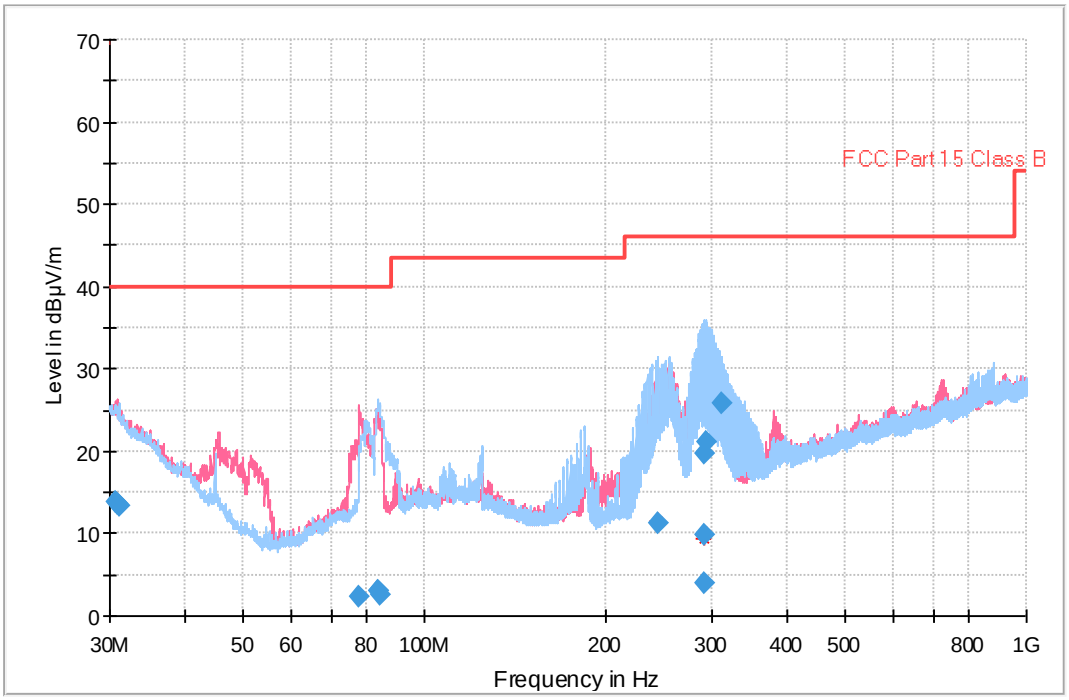
Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
7997.750000	---	51.85	54.00	2.15	5000.0	1000.000	100.0	V	45.0
15271.750000	---	51.84	54.00	2.16	5000.0	1000.000	100.0	H	358.0
7853.000000	---	51.56	54.00	2.44	5000.0	1000.000	100.0	V	45.0
7897.250000	---	51.53	54.00	2.47	5000.0	1000.000	100.0	H	315.0
15000.250000	---	51.49	54.00	2.51	5000.0	1000.000	100.0	H	153.0
14920.250000	---	51.09	54.00	2.91	5000.0	1000.000	100.0	H	0.0
7787.750000	65.66	---	74.00	8.34	5000.0	1000.000	100.0	H	45.0
15271.750000	65.26	---	74.00	8.74	5000.0	1000.000	100.0	H	358.0
7799.000000	65.05	---	74.00	8.95	5000.0	1000.000	100.0	V	153.0
14978.000000	64.44	---	74.00	9.56	5000.0	1000.000	100.0	H	261.0
7112.750000	64.20	---	74.00	9.80	5000.0	1000.000	100.0	H	99.0
15511.500000	64.12	---	74.00	9.88	5000.0	1000.000	100.0	V	99.0

Operating mode(s):	2

EUT Information

EUT: NOTE-WBNAWT
Operating mode: Uin: 120V / 60 Hz, Wi-Fi

Full Spectrum



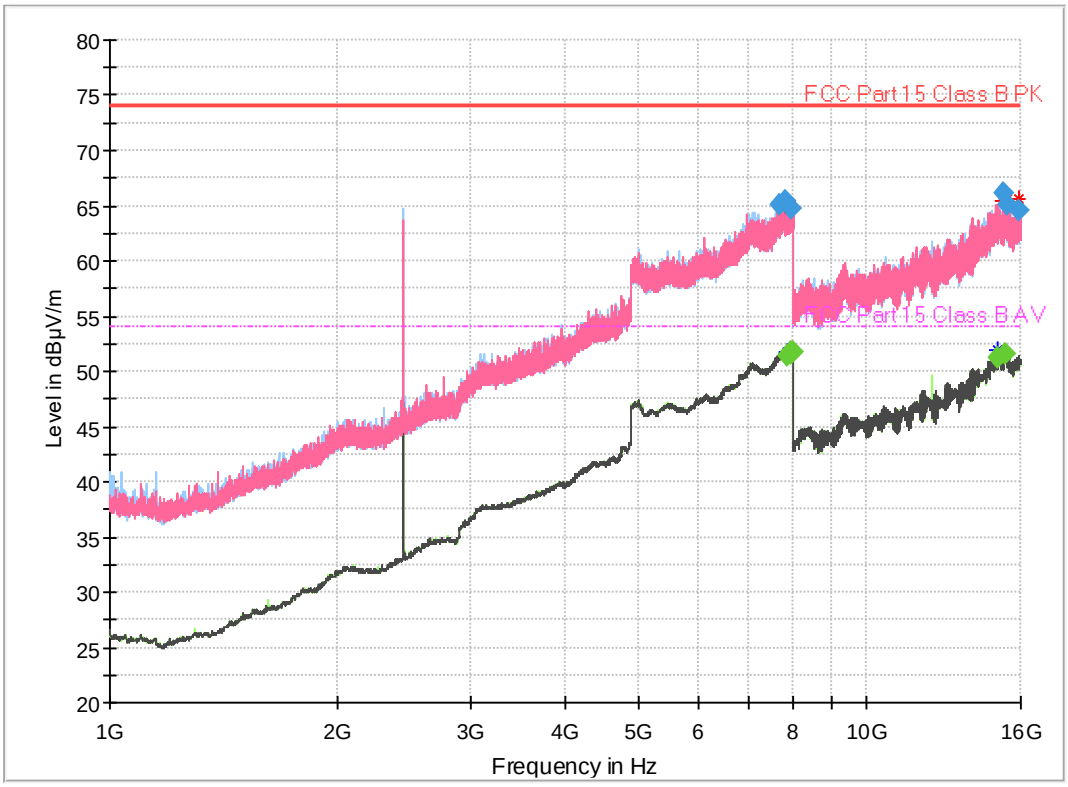
Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/
311.790000	25.78	46.00	20.22	3000.0	120.000	100.0	H	331.0	13.0
294.450000	21.13	46.00	24.87	3000.0	120.000	100.0	H	0.0	12.4
30.630000	13.87	40.00	26.13	3000.0	120.000	192.0	V	282.0	19.5
30.840000	13.70	40.00	26.30	3000.0	120.000	242.0	V	29.0	19.4
291.750000	19.63	46.00	26.37	3000.0	120.000	100.0	H	0.0	12.4
31.110000	13.31	40.00	26.69	3000.0	120.000	238.0	H	35.0	19.2
244.560000	11.26	46.00	34.74	3000.0	120.000	100.0	H	341.0	10.8
291.960000	9.95	46.00	36.05	3000.0	120.000	100.0	H	0.0	12.4
83.550000	3.00	40.00	37.00	3000.0	120.000	238.0	H	19.0	10.4
83.730000	2.96	40.00	37.04	3000.0	120.000	238.0	H	19.0	10.4
84.360000	2.67	40.00	37.33	3000.0	120.000	238.0	H	19.0	10.5
77.520000	2.26	40.00	37.74	3000.0	120.000	112.0	V	9.0	9.7
291.870000	3.99	46.00	42.01	3000.0	120.000	104.0	H	356.0	12.4

EUT Information

EUT: NOTE-WBNAWT
Operating mode: Uin: 120V / 60 Hz, Wi-Fi

Full Spectrum



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
7997.500000	---	51.78	54.00	2.22	5000.0	1000.000	100.0	H	45.0
7969.500000	---	51.69	54.00	2.31	5000.0	1000.000	100.0	V	315.0
15269.750000	---	51.65	54.00	2.35	5000.0	1000.000	100.0	V	0.0
7941.750000	---	51.52	54.00	2.48	5000.0	1000.000	100.0	V	358.0
7850.000000	---	51.48	54.00	2.52	5000.0	1000.000	100.0	H	0.0
14900.250000	---	51.27	54.00	2.73	5000.0	1000.000	100.0	V	0.0
15217.250000	66.10	---	74.00	7.90	5000.0	1000.000	100.0	H	153.0
7834.250000	65.50	---	74.00	8.50	5000.0	1000.000	100.0	H	0.0
7683.500000	65.09	---	74.00	8.91	5000.0	1000.000	100.0	H	207.0
15324.500000	65.00	---	74.00	9.00	5000.0	1000.000	100.0	V	0.0
7941.750000	64.77	---	74.00	9.23	5000.0	1000.000	100.0	V	358.0
15930.250000	64.49	---	74.00	9.51	5000.0	1000.000	100.0	V	207.0

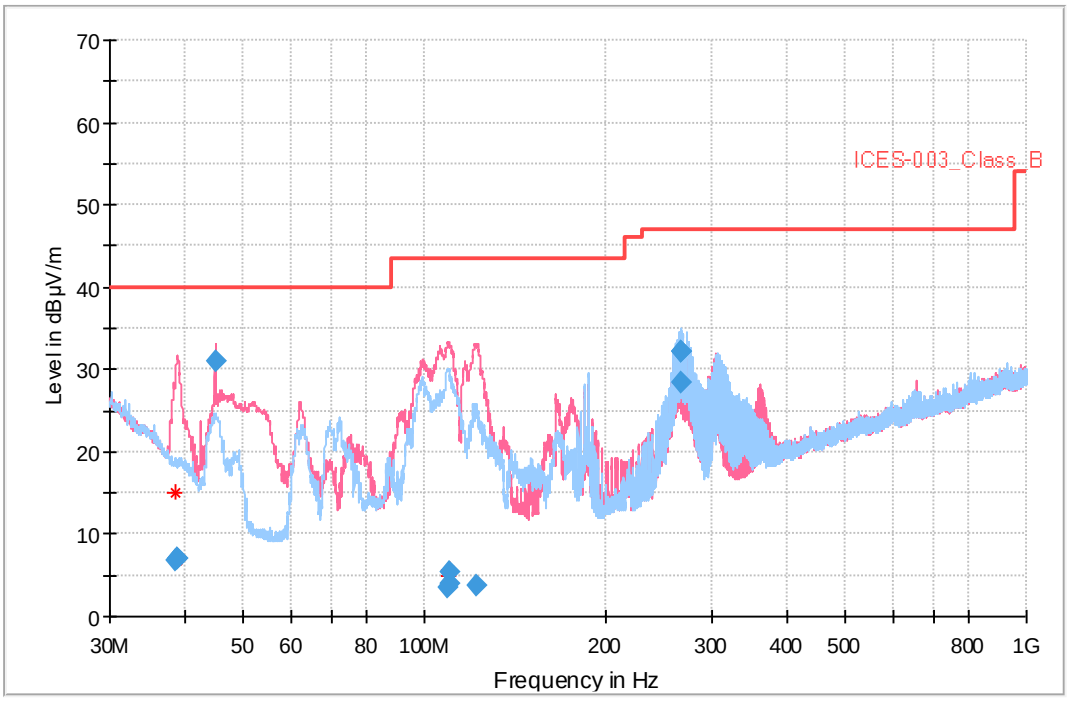
9.2.3 Test results according to ICES-003

Operating mode(s):	1

EUT Information

EUT: NOTE-WBNAWT
Operating mode: Uin: 120V / 60 Hz, LTE

Full Spectrum



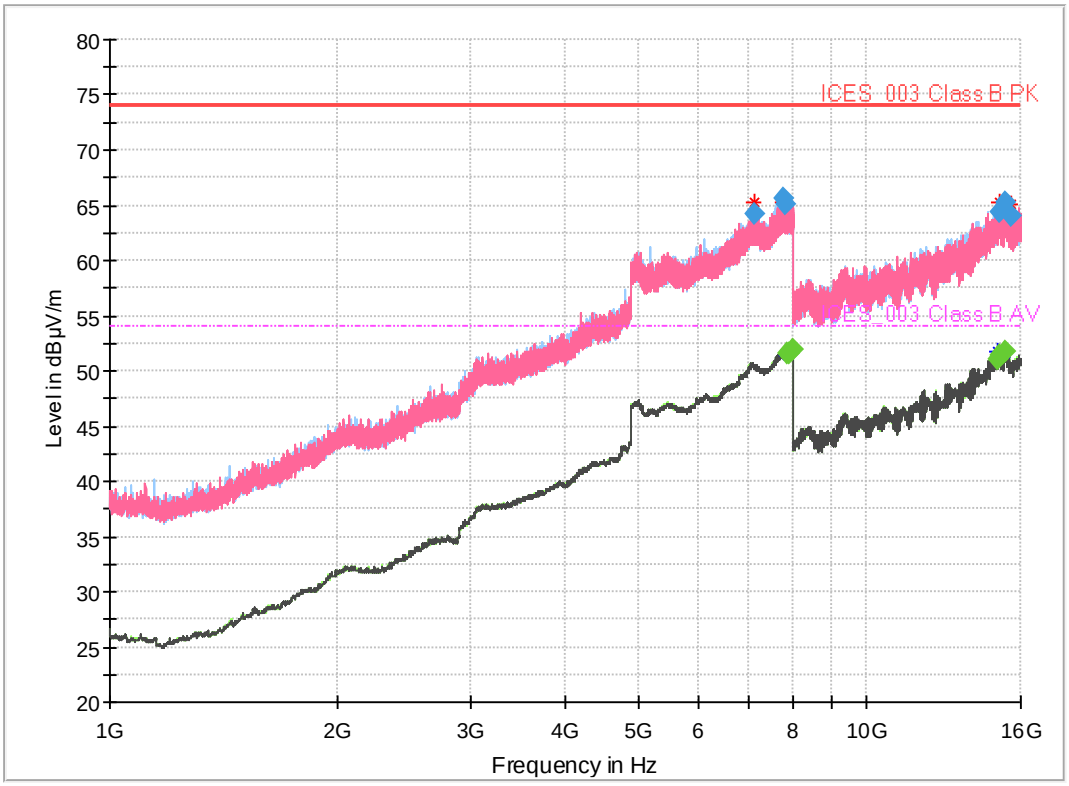
Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/
44.910000	31.01	40.00	8.99	10000.0	120.000	100.0	V	12.0	10.8
267.030000	32.16	47.00	14.84	10000.0	120.000	100.0	H	357.0	11.6
266.970000	32.15	47.00	14.85	10000.0	120.000	100.0	H	346.0	11.6
267.120000	28.51	47.00	18.49	10000.0	120.000	100.0	H	346.0	11.6
38.880000	7.05	40.00	32.95	10000.0	120.000	100.0	V	287.0	14.5
38.790000	6.96	40.00	33.04	10000.0	120.000	100.0	V	287.0	14.6
38.640000	6.88	40.00	33.12	10000.0	120.000	100.0	V	287.0	14.7
109.710000	5.47	43.50	38.03	10000.0	120.000	242.0	V	174.0	11.6
109.890000	3.93	43.50	39.57	10000.0	120.000	241.0	V	174.0	11.6
121.950000	3.80	43.50	39.70	10000.0	120.000	238.0	V	174.0	11.4
109.050000	3.48	43.50	40.02	10000.0	120.000	242.0	V	174.0	11.7

EUT Information

EUT: NOTE-WBNAWT
Operating mode: Uin: 120V / 60 Hz, LTE

Full Spectrum



Final_Result

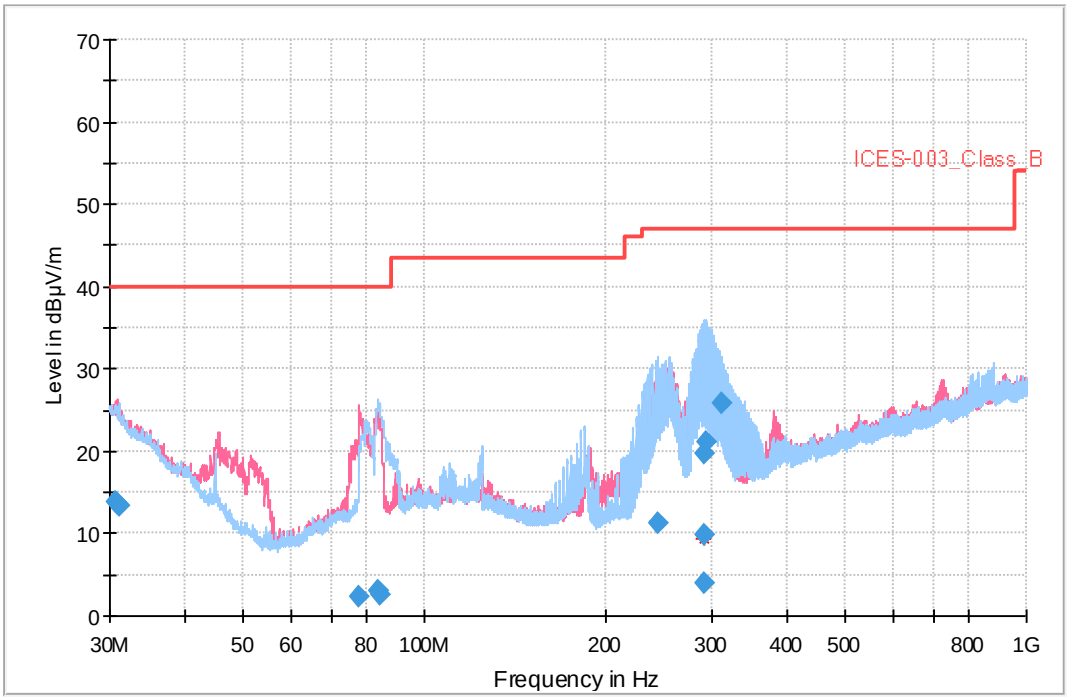
Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
7997.750000	---	51.85	54.00	2.15	5000.0	1000.000	100.0	V	45.0
15271.750000	---	51.84	54.00	2.16	5000.0	1000.000	100.0	H	358.0
7853.000000	---	51.56	54.00	2.44	5000.0	1000.000	100.0	V	45.0
7897.250000	---	51.53	54.00	2.47	5000.0	1000.000	100.0	H	315.0
15000.250000	---	51.49	54.00	2.51	5000.0	1000.000	100.0	H	153.0
14920.250000	---	51.09	54.00	2.91	5000.0	1000.000	100.0	H	0.0
7787.750000	65.66	---	74.00	8.34	5000.0	1000.000	100.0	H	45.0
15271.750000	65.26	---	74.00	8.74	5000.0	1000.000	100.0	H	358.0
7799.000000	65.05	---	74.00	8.95	5000.0	1000.000	100.0	V	153.0
14978.000000	64.44	---	74.00	9.56	5000.0	1000.000	100.0	H	261.0
7112.750000	64.20	---	74.00	9.80	5000.0	1000.000	100.0	H	99.0
15511.500000	64.12	---	74.00	9.88	5000.0	1000.000	100.0	V	99.0

Operating mode(s):	2

EUT Information

EUT: NOTE-WBNAWT
Operating mode: Uin: 120V / 60 Hz, Wi-Fi

Full Spectrum



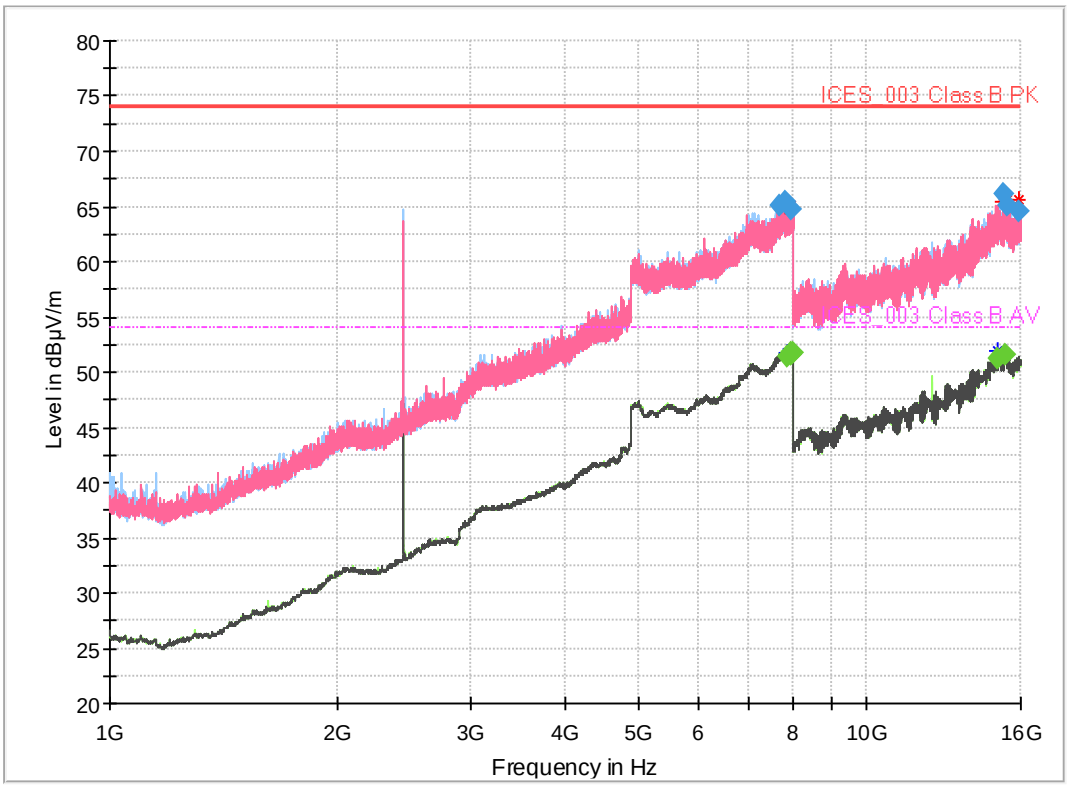
Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/
311.790000	25.78	47.00	21.22	3000.0	120.000	100.0	H	331.0	13.0
294.450000	21.13	47.00	25.87	3000.0	120.000	100.0	H	0.0	12.4
30.630000	13.87	40.00	26.13	3000.0	120.000	192.0	V	282.0	19.5
30.840000	13.70	40.00	26.30	3000.0	120.000	242.0	V	29.0	19.4
31.110000	13.31	40.00	26.69	3000.0	120.000	238.0	H	35.0	19.2
291.750000	19.63	47.00	27.37	3000.0	120.000	100.0	H	0.0	12.4
244.560000	11.26	47.00	35.74	3000.0	120.000	100.0	H	341.0	10.8
83.550000	3.00	40.00	37.00	3000.0	120.000	238.0	H	19.0	10.4
83.730000	2.96	40.00	37.04	3000.0	120.000	238.0	H	19.0	10.4
291.960000	9.95	47.00	37.05	3000.0	120.000	100.0	H	0.0	12.4
84.360000	2.67	40.00	37.33	3000.0	120.000	238.0	H	19.0	10.5
77.520000	2.26	40.00	37.74	3000.0	120.000	112.0	V	9.0	9.7
291.870000	3.99	47.00	43.01	3000.0	120.000	104.0	H	356.0	12.4

EUT Information

EUT: NOTE-WBNAWT
Operating mode: Uin: 120V / 60 Hz, Wi-Fi

Full Spectrum



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
7997.500000	---	51.78	54.00	2.22	5000.0	1000.000	100.0	H	45.0
7969.500000	---	51.69	54.00	2.31	5000.0	1000.000	100.0	V	315.0
15269.750000	---	51.65	54.00	2.35	5000.0	1000.000	100.0	V	0.0
7941.750000	---	51.52	54.00	2.48	5000.0	1000.000	100.0	V	358.0
7850.000000	---	51.48	54.00	2.52	5000.0	1000.000	100.0	H	0.0
14900.250000	---	51.27	54.00	2.73	5000.0	1000.000	100.0	V	0.0
15217.250000	66.10	---	74.00	7.90	5000.0	1000.000	100.0	H	153.0
7834.250000	65.50	---	74.00	8.50	5000.0	1000.000	100.0	H	0.0
7683.500000	65.09	---	74.00	8.91	5000.0	1000.000	100.0	H	207.0
15324.500000	65.00	---	74.00	9.00	5000.0	1000.000	100.0	V	0.0
7941.750000	64.77	---	74.00	9.23	5000.0	1000.000	100.0	V	358.0
15930.250000	64.49	---	74.00	9.51	5000.0	1000.000	100.0	V	207.0

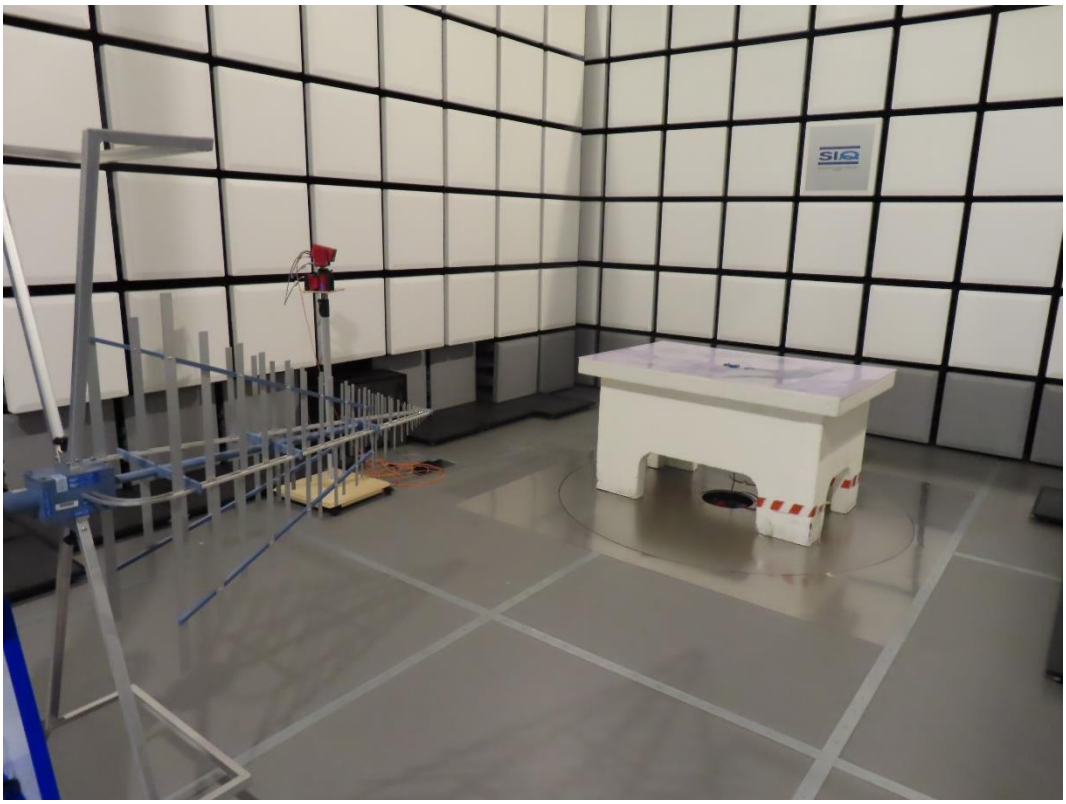


Figure 2: Test setup for radiated emission measurement – up to 1 GHz

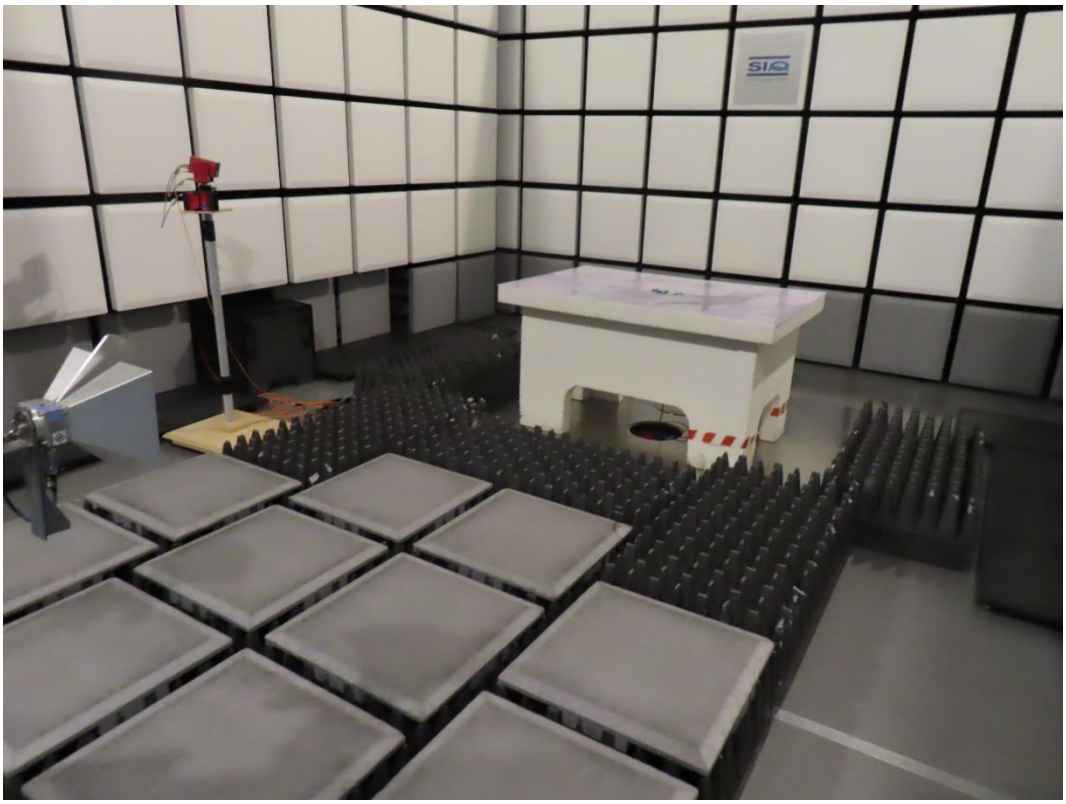


Figure 3: Test setup for radiated emission measurement – over 1 GHz

10. Used test equipment

9.1 Conducted emission measurement

Equipment	Manufacturer	Type	Equipment Number	Calibration date	Due date
EMI test receiver	Rohde-Schwarz	ESW44	EM0291	2024-09	2026-03
Artificial main network	Rohde-Schwarz	ENV216	EM0009	2022-06	2025-06

9.2 Radiated emission measurement

Equipment	Manufacturer	Type	Equipment Number	Calibration date	Due date
EMI test receiver	Rohde-Schwarz	ESW44	EM0291	2024-11	2026-05
Semi Anechoic Chamber SAC 1	Comtest Engineering	SAC 3m	EM0145	2025-03	2028-03
Ultra Broadband Antenna	Rohde-Schwarz	HL562E	EM0140	2023-07	2025-07
Horn Antenna	Rohde-Schwarz	HF907	EM0141	2023-06	2025-06
Horn Antenna	EMCO	3116	EM0179	2024-11	2027-11
Turn table (2 m diameter)	Maturo	TT 2.0 SI	/	N/A	N/A
Bore-sight antenna mast	Maturo	BAM-4.0-P	/	N/A	N/A
Multi-channel positioning equipment	Maturo	Maturo NCD	/	N/A	N/A

----------END OF TEST REPORT----------