



TEST REPORT

No. I21N02743-BLE

for

Doro AB

mobile phone

Model Name: DSB-0400

with

Hardware Version: 1011

Software Version:

NEMO01A-S10A_DSB0400_118_USERDEBUG_210906

FCC ID: WS5DSB0400

Issued Date: 2021-10-08

Designation Number: CN1210

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of SAICT.

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1. Summary of Test Report

1.1. Test Items

Product Name	mobile phone
Model Name	DSB-0400
Applicant's name	Doro AB
Manufacturer's Name	Doro AB

1.2. Test Standards

FCC CFR 47, Part 15, Subpart C 2019

1.3. Test Result

Pass

Please refer to "5.2. Test Results"

1.4. Testing Location

Address: Building G, Shenzhen International Innovation Center, No.1006 Shennan Road,
Futian District, Shenzhen, Guangdong, P. R. China

1.5. Project data

Testing Start Date:	2021-09-10
Testing End Date:	2021-09-30

1.6. Signature



Lin Zechuang
(Prepared this test report)



An Ran
(Reviewed this test report)



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(Approved this test report)



2. Client Information

2.1. Applicant Information

Company Name: Doro AB
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2.2. Manufacturer Information

Company Name: Doro AB
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Contact Person: Fredrik Bengtsson
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Telephone: +46 46 280 5000
Fax: /

3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Product Name	mobile phone
Model Name	DSB-0400
Frequency Range	2400MHz~2483.5MHz
Type of Modulation	GFSK (Bluetooth Low Energy)
PHY	LE 1M
Number of Channels	40
Antenna Type	Integrated
Antenna Gain	1.37dBi
Power Supply	3.8V DC by Battery
FCC ID	WS5DSB0400
Condition of EUT as received	No abnormality in appearance

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of Shenzhen Academy of Information and Communications Technology.

3.2. Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version	Receive Date
UT11aa	352477910012925	1011	NEMO01A-S10A_DSB0400_ 118_USERDEBUG_210906	2021-09-10
UT10aa	352477910010416	1011	NEMO01A-S10A_DSB0400_ 118_USERDEBUG_210906	2021-09-10
UT06aa	352477910010630	1011	NEMO01A-S10A_DSB0400_ 118_USERDEBUG_210906	2021-09-10

*EUT ID: is used to identify the test sample in the lab internally.

UT11aa is used for conduction test, UT10aa is used for radiation test, and UT06aa is used for AC Power line Conducted Emission test.

3.3. Internal Identification of AE used during the test

AE ID*	Description	AE ID*
AE1	Battery	/

AE1

Model	DBZ-3000A
Manufacturer	GUANGDONG FENGHUA NEW ENERGY CO., LTD.
Capacity	3000mAh
Nominal Voltage	3.8V

*AE ID: is used to identify the test sample in the lab internally.



3.4. General Description

The Equipment under Test (EUT) is a model of mobile phone with integrated antenna and battery.

It consists of normal options: Lithium Battery and Charger.

Manual and specifications of the EUT were provided to fulfil the test.

Samples undergoing test were selected by the client.



4. Reference Documents

4.1. Documents supplied by applicant

EUT feature information is supplied by the applicant or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC Part 15	FCC CFR 47, Part 15, Subpart C: 15.205 Restricted bands of operation; 15.209 Radiated emission limits, general requirements; 15.247 Operation within the bands 902–928MHz, 2400–2483.5 MHz, and 5725–5850 MHz	2019
ANSI C63.10	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices	2013

5. Test Results

5.1. Testing Environment

Normal Temperature: 15~35°C

Relative Humidity: 20~75%

5.2. Test Results

No	Test cases	Sub-clause of Part 15C	Verdict
0	Antenna Requirement	15.203	P
1	Maximum Peak Output Power	15.247 (b)	P
2	Peak Power Spectral Density	15.247 (e)	P
3	6dB Bandwidth	15.247 (a)	P
4	Band Edges Compliance	15.247 (d)	P
5	Transmitter Spurious Emission - Conducted	15.247 (d)	P
6	Transmitter Spurious Emission - Radiated	15.247, 15.205, 15.209	P
7	AC Power line Conducted Emission	15.107, 15.207	P

See **ANNEX A** for details.

5.3. Statements

SAICT has evaluated the test cases requested by the applicant/manufacture as listed in section 5.2 of this report, for the EUT specified in section 3, according to the standards or reference documents listed in section 4.2.

6. Test Equipments Utilized

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date	Calibration Period
1	Vector Signal Analyzer	FSV40	100903	Rohde & Schwarz	2021-12-30	1 year
2	RF Control Unit	JS0806-2	21C8060398	Tonscend	2022-05-09	1 year
3	Test Receiver	ESCI	100702	Rohde & Schwarz	2022-01-13	1 year
4	LISN	ENV216	102067	Rohde & Schwarz	2022-07-15	1 year

Radiated test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date	Calibration Period
1	Loop Antenna	HLA6120	35779	TESEQ	2022-04-25	3 years
2	BiLog Antenna	3142E	0224831	ETS-Lindgren	2024-05-27	3 years
3	Horn Antenna	3117	00066577	ETS-Lindgren	2022-04-02	3 years
4	Horn Antenna	QSH-SL-18 -26-S-20	17013	Q-par	2023-01-06	3 years
5	Test Receiver	ESR7	101676	Rohde & Schwarz	2021-11-25	1 year
6	Spectrum Analyser	FSV40	101192	Rohde & Schwarz	2022-01-13	1 year
7	Chamber	FACT3-2.0	1285	ETS-Lindgren	2023-05-29	2 years

Test software

No.	Equipment	Manufacturer	Version
1	RF Test System	Tonscend	2.6
2	EMC32	Rohde & Schwarz	10.50.40

EUT is engineering software provided by the customer to control the transmitting signal.
The EUT was programmed to be in continuously transmitting mode.

Anechoic chamber

Fully anechoic chamber by ETS-Lindgren

7. Laboratory Environment

Semi-anechoic chamber

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz> 60 dB; 1MHz-18000MHz>90 dB
Electrical insulation	> 2M Ω
Ground system resistance	< 4 Ω
Normalised site attenuation (NSA)	< \pm 4 dB, 3 m distance, from 30 to 1000 MHz

Shielded room

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz> 60 dB; 1MHz-1000MHz>90 dB
Electrical insulation	> 2M Ω
Ground system resistance	< 4 Ω

Fully-anechoic chamber

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz> 60 dB; 1MHz-18000MHz>90 dB
Electrical insulation	> 2M Ω
Ground system resistance	< 4 Ω
Voltage Standing Wave Ratio (VSWR)	\leq 6 dB, from 1 to 18 GHz, 3 m distance
Uniformity of field strength	Between 0 and 6 dB, from 80 to 6000 MHz

8. Measurement Uncertainty

Test Name	Uncertainty ($k=2$)	
1. Maximum Peak Output Power	1.32dB	
2. Peak Power Spectral Density	2.32dB	
3. 6dB Bandwidth	66Hz	
4. Band Edges Compliance	1.92dB	
5. Transmitter Spurious Emission - Conducted	$30\text{MHz} \leq f < 1\text{GHz}$	1.41dB
	$1\text{GHz} \leq f < 7\text{GHz}$	1.92dB
	$7\text{GHz} \leq f < 13\text{GHz}$	2.31dB
	$13\text{GHz} \leq f \leq 26\text{GHz}$	2.61dB
6. Transmitter Spurious Emission - Radiated	$9\text{kHz} \leq f < 30\text{MHz}$	1.79dB
	$30\text{MHz} \leq f < 1\text{GHz}$	4.86dB
	$1\text{GHz} \leq f < 18\text{GHz}$	4.82dB
	$18\text{GHz} \leq f \leq 40\text{GHz}$	3.76dB
7. AC Power line Conducted Emission	$150\text{kHz} \leq f \leq 30\text{MHz}$	2.62dB

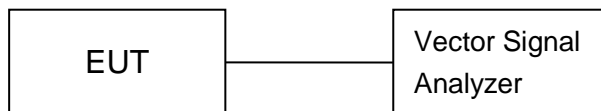
ANNEX A: Detailed Test Results

Test Configuration

The measurement is made according to ANSI C63.10.

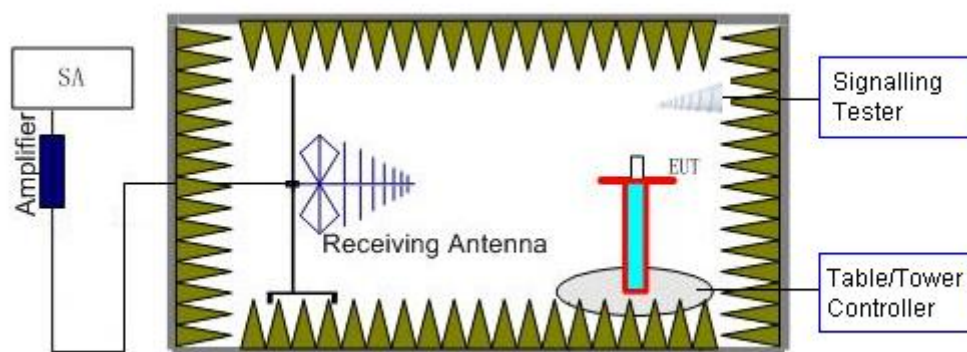
1) Conducted Measurements

1. Connect the EUT to the test system correctly.
2. Set the EUT to the required work mode.
3. Set the EUT to the required channel.
4. Set the spectrum analyzer to start measurement.
5. Record the values.



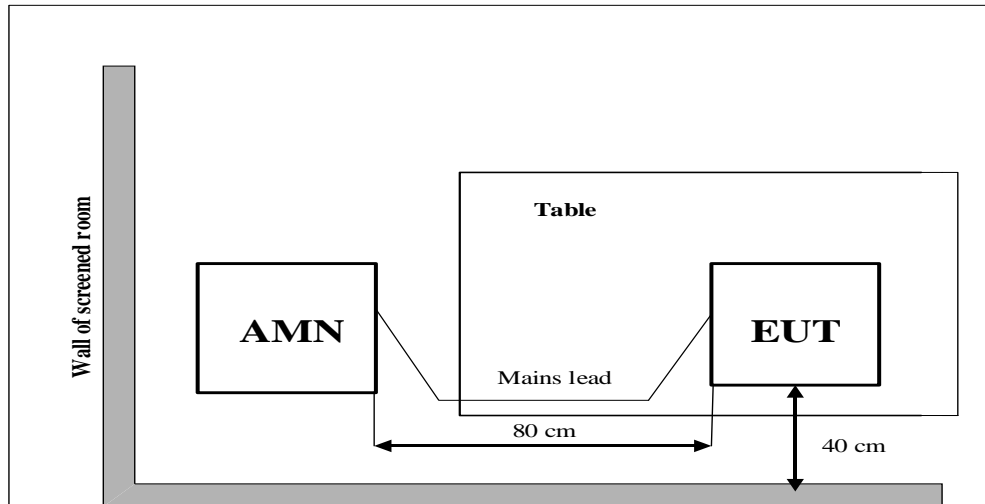
2) Radiated Measurements

Test setup: EUT was placed on a 1.5 meter high non-conductive table at a 3 meter test distance from the receive antenna. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT and adjusting the receiving antenna polarization.



3) AC Power line Conducted Emission Measurement

For Bluetooth LE, the EUT is working under test mode. The EUT is commanded to operate at maximum transmitting power.



A.0 Antenna requirement**Measurement Limit:**

Standard	Requirement
FCC CRF Part 15.203	An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

Conclusion: The Directional gains of antenna used for transmitting is 1.37dBi.

The RF transmitter uses an integrate antenna without connector.



A.1 Maximum Peak Output Power

Method of Measurement: See ANSI C63.10-clause 11.9.1.3

The maximum peak conducted output power may be measured using a broadband peak RF power meter.

Measurement Limit:

Standard	Limit (dBm)
FCC 47 CRF Part 15.247(b)	< 30

Measurement Results:

Mode	Frequency (MHz)	RF output power (dBm)	Conclusion
LE 1M	2402(CH0)	0.51	P
	2440(CH19)	1.98	P
	2480(CH39)	1.72	P

Conclusion: Pass

A.2 Peak Power Spectral Density

Method of Measurement: See ANSI C63.10-clause 11.10.2

Measurement Limit:

Standard	Limit (dBm/3 kHz)
FCC 47 CRF Part 15.247(e)	< 8 dBm/3 kHz

Measurement Results:

Mode	Frequency (MHz)	Peak Power Spectral Density (dBm)		Conclusion
LE 1M	2402(CH0)	Fig.1	-9.85	P
	2440(CH19)	Fig.2	-8.17	P
	2480(CH39)	Fig.3	-8.93	P

See below for test graphs.

Conclusion: PASS

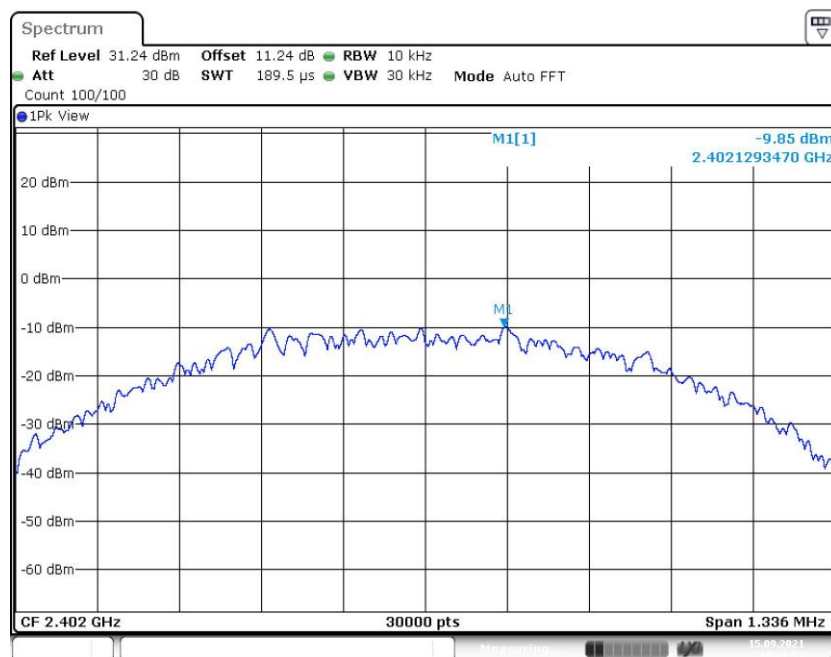


Fig.1 Power Spectral Density (CH0), LE 1M

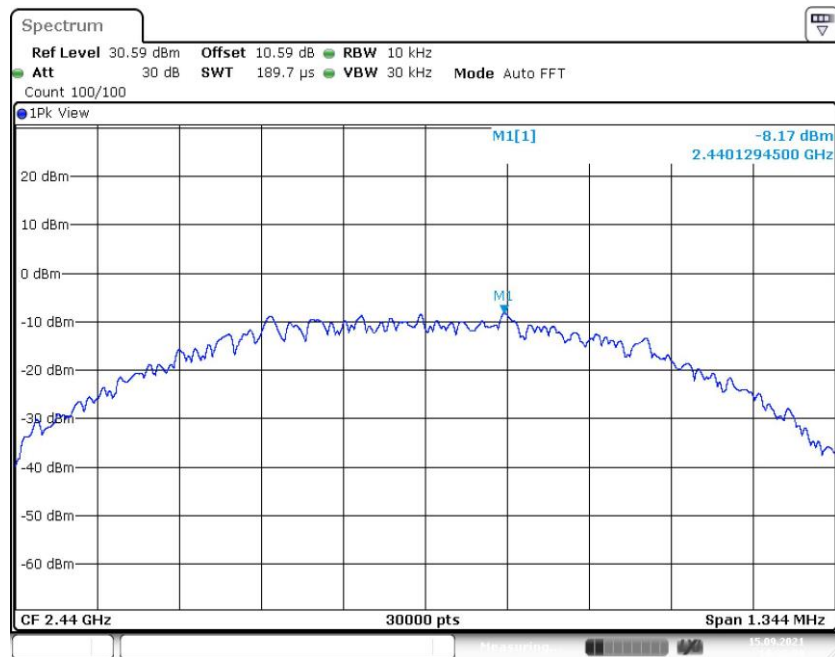


Fig.2 Power Spectral Density (CH19), LE 1M

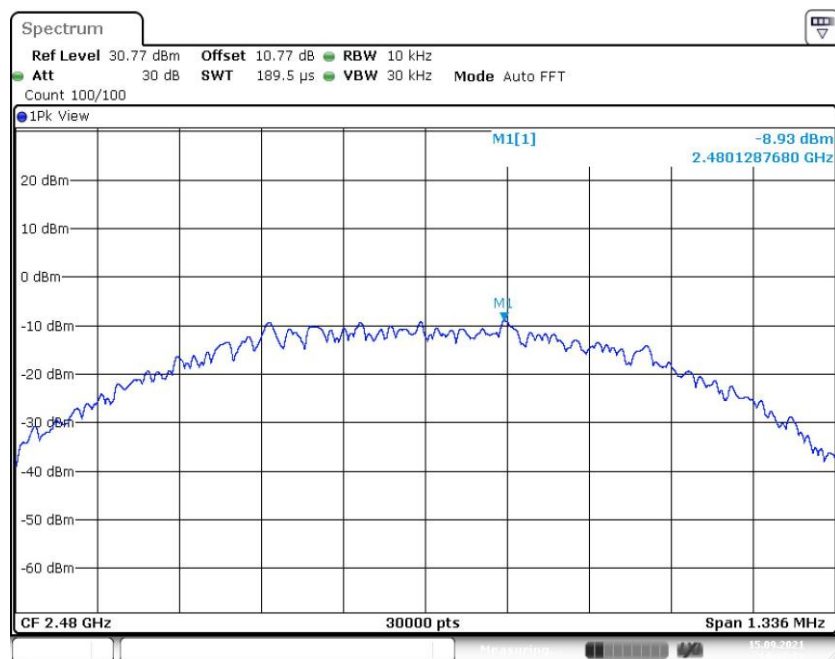


Fig.3 Power Spectral Density (CH39), LE 1M

A.3 6dB Bandwidth

Measurement Limit:

Standard	Limit (kHz)
FCC 47 CFR Part 15.247 (a)	≥ 500

Measurement Result:

Mode	Frequency (MHz)	Test Results (kHz)		Conclusion
LE 1M	2402(CH0)	Fig.4	668.00	P
	2440(CH19)	Fig.5	672.00	P
	2480(CH39)	Fig.6	668.00	P

See below for test graphs.

Conclusion: PASS

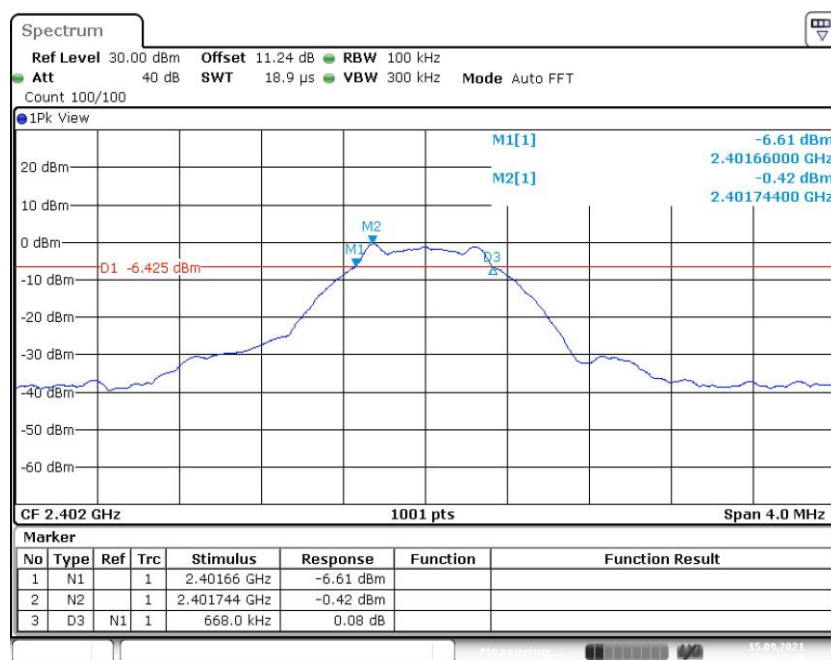


Fig.4 6dB Bandwidth (CH0), LE 1M

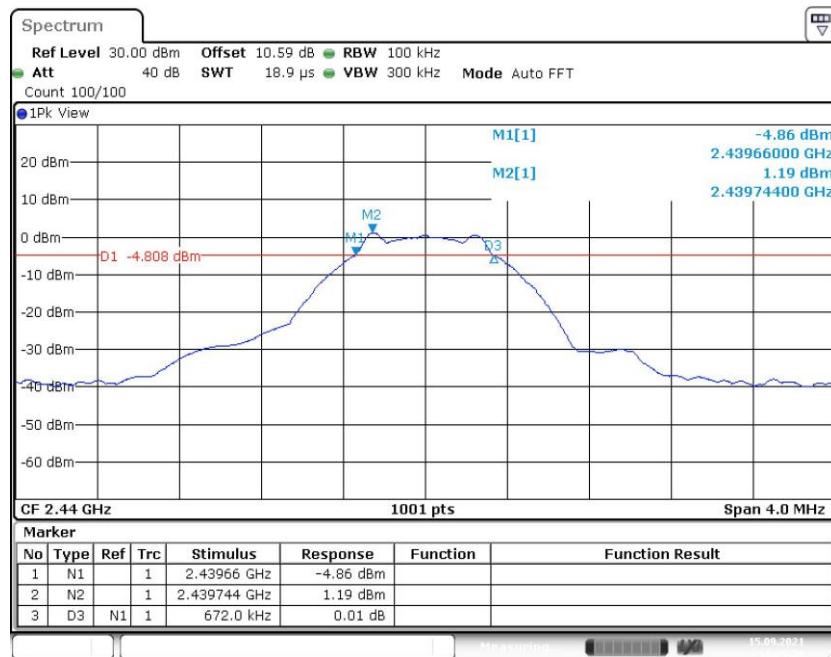


Fig.5 6dB Bandwidth (CH19), LE 1M

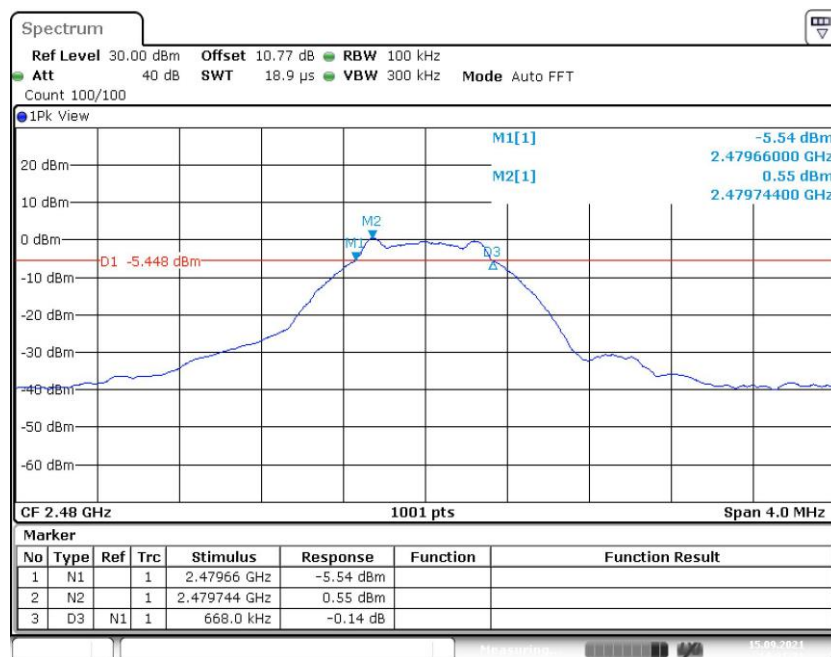


Fig.6 6dB Bandwidth (CH39), LE 1M



A.4 Band Edges Compliance

Measurement Limit:

Standard	Limit (dBm)
FCC 47 CFR Part 15.247 (d)	> 20

Measurement Result:

Mode	Frequency (MHz)	Test Results (dBm)		Conclusion
LE 1M	2402(CH0)	Fig.7	44.97	P
	2480(CH39)	Fig.8	46.58	P

See below for test graphs.

Conclusion: PASS

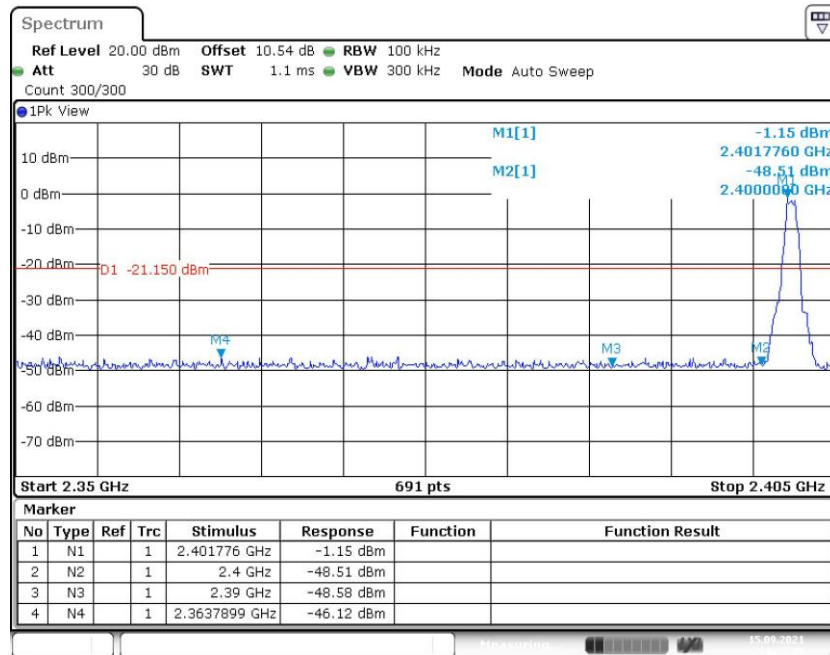


Fig.7 Band Edges (CH0), LE 1M

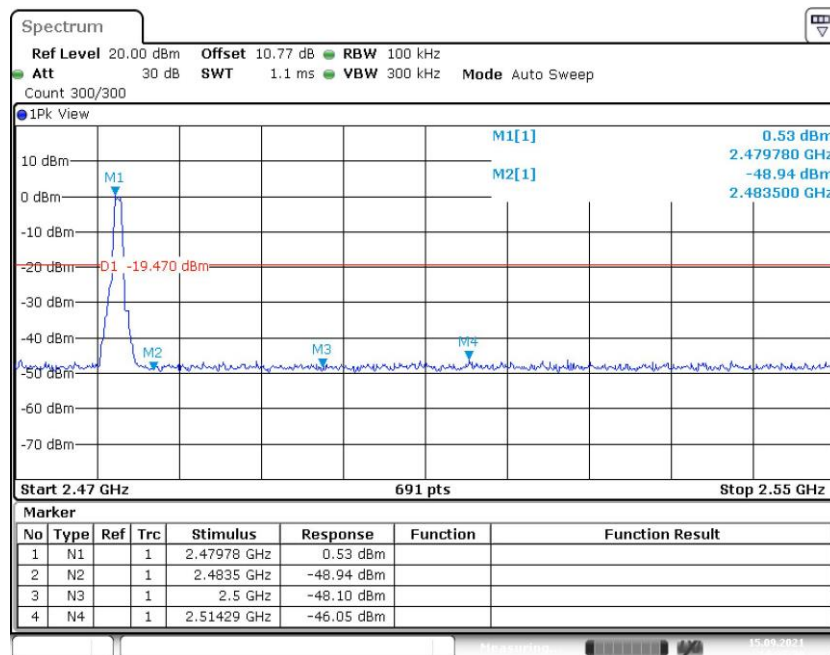


Fig.8 Band Edges (CH39), LE 1M

A.5 Transmitter Spurious Emission - Conducted

Measurement Limit:

Standard	Limit (dBm)
FCC 47 CFR Part 15.247 (d)	20dBm below peak output power in 100 kHz bandwidth

Measurement Results:

MODE	Channel	Frequency Range	Test Results	Conclusion
LE 1M	0	2.402 GHz	Fig.9	P
		30MHz -1GHz	Fig.10	P
		1GHz-26.5GHz	Fig.11	P
	19	2.440 GHz	Fig.12	P
		30MHz -1GHz	Fig.13	P
		1GHz-26.5GHz	Fig.14	P
	39	2.480 GHz	Fig.15	P
		30MHz -1GHz	Fig.16	P
		1GHz-26.5GHz	Fig.17	P

See below for test graphs.

Conclusion: Pass



Fig.9 Conducted Spurious Emission (CH0, Center Frequency), LE 1M

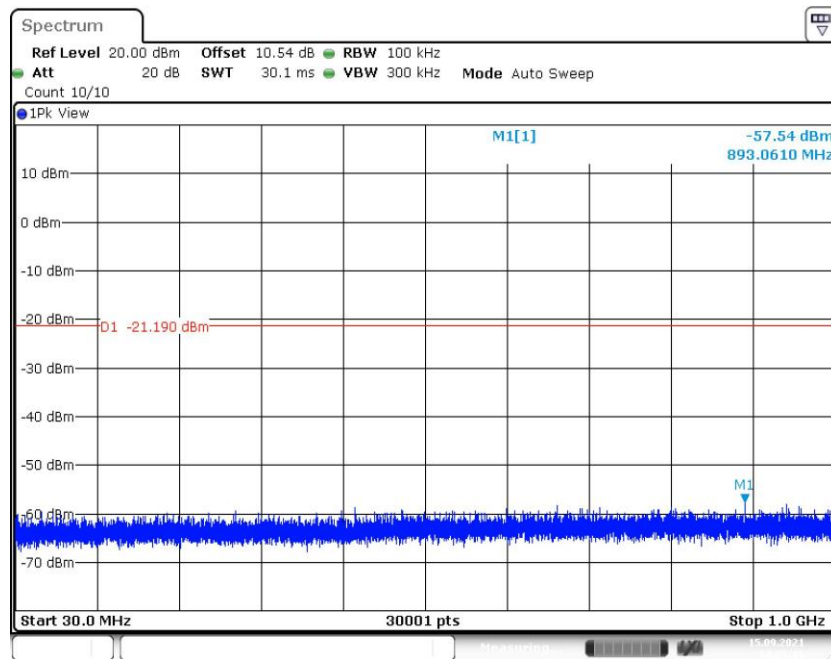


Fig.10 Conducted Spurious Emission (CH0, 30MHz -1GHz), LE 1M

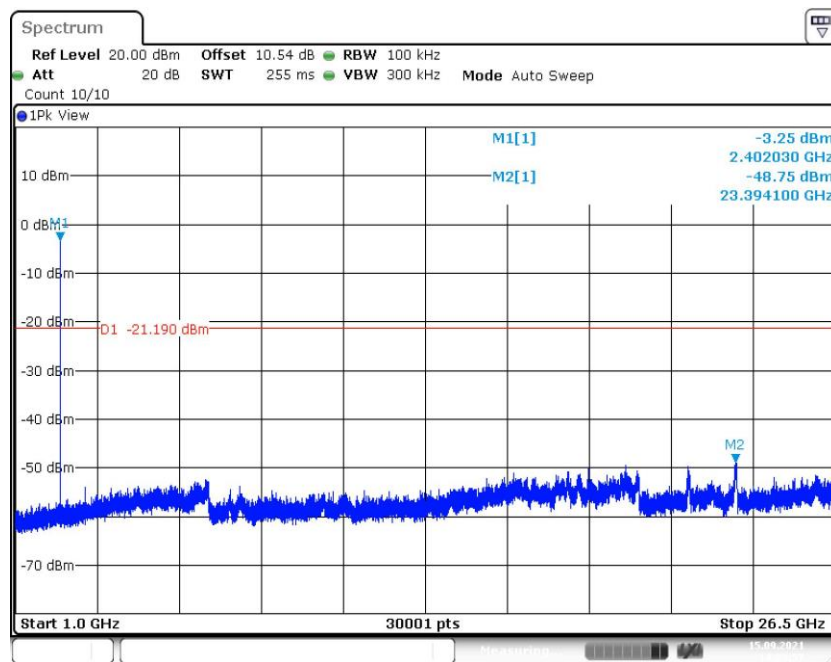


Fig.11 Conducted Spurious Emission (CH0, 1GHz-26.5GHz), LE 1M



Fig.12 Conducted Spurious Emission (CH19, Center Frequency), LE 1M

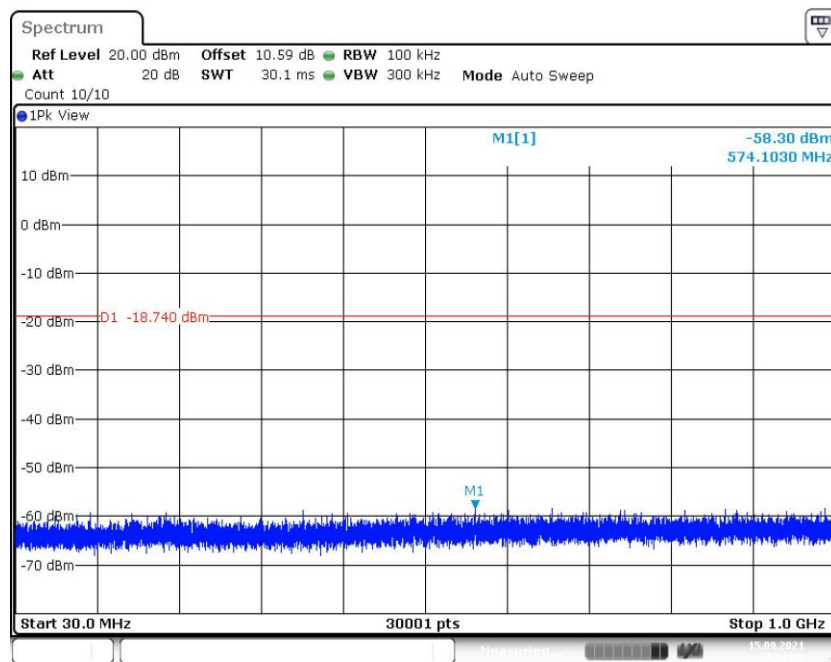


Fig.13 Conducted Spurious Emission (CH19, 30MHz -1GHz), LE 1M

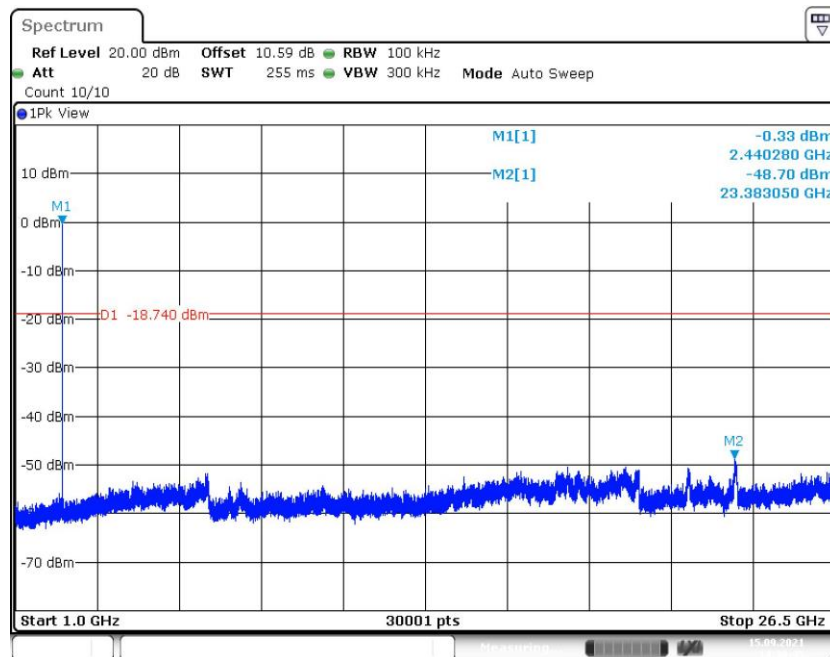


Fig.14 Conducted Spurious Emission (CH19, 1GHz-26.5GHz), LE 1M

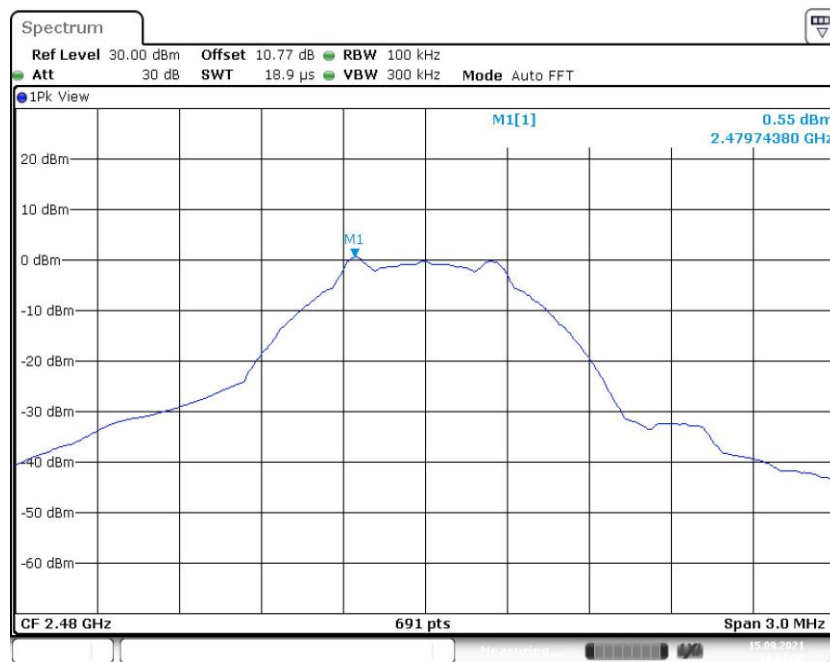


Fig.15 Conducted Spurious Emission (CH39, Center Frequency), LE 1M

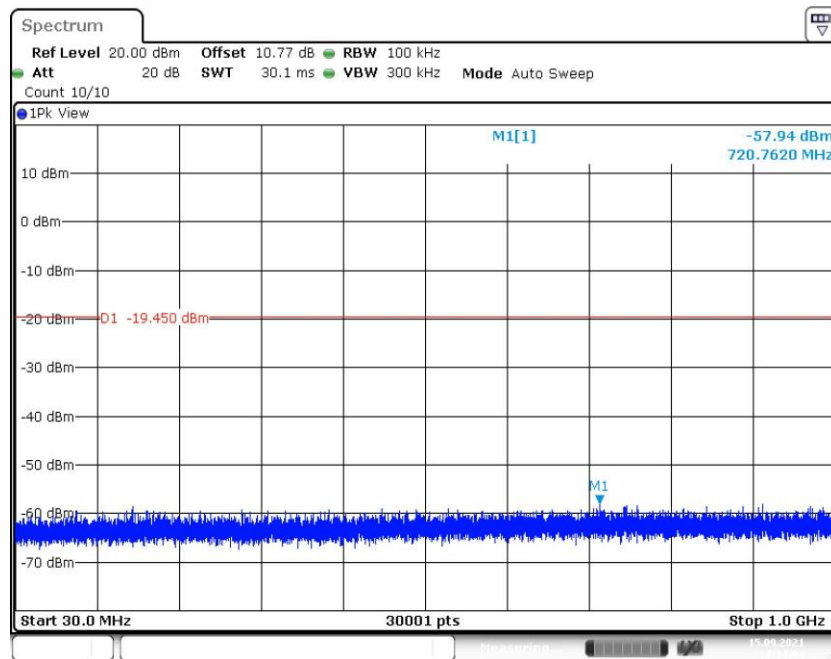


Fig.16 Conducted Spurious Emission (CH39, 30MHz -1GHz), LE 1M

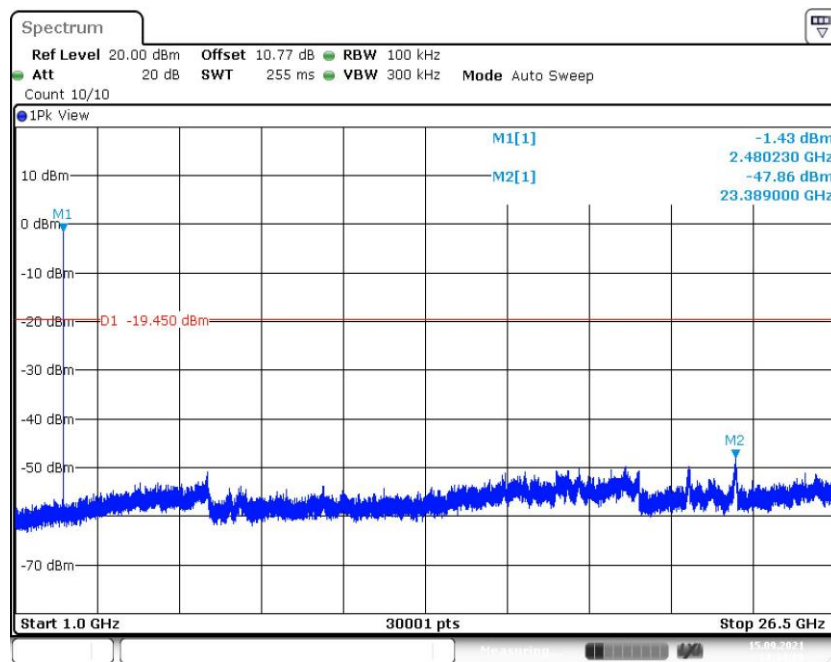


Fig.17 Conducted Spurious Emission (CH39, 1GHz-26.5GHz), LE 1M

A.6 Transmitter Spurious Emission - Radiated

Measurement Limit:

Standard	Limit (dBm)
FCC 47 CFR Part 15.247, 15.205, 15.209	20dBm below peak output power

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

Limit in restricted band:

Frequency of emission (MHz)	Field strength($\mu\text{V/m}$)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Test Condition:

The EUT was placed on a non-conductive table. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

Frequency of emission (MHz)	RBW/VBW	Sweep Time(s)
30-1000	120kHz/300kHz	5
1000-4000	1MHz/3MHz	15
4000-18000	1MHz/3MHz	40
18000-26500	1MHz/3MHz	20

Note: According to the performance evaluation, the radiated emission margin of EUT is over 20dB in the band from 9kHz to 30MHz. Therefore, the measurement starts from 30MHz to tenth harmonic. The measurement results include the horizontal polarization and vertical polarization measurements.

Measurement Results:

Mode	Channel	Frequency Range	Test Results	Conclusion
LE 1M	0	1 GHz ~18 GHz	Fig.18	P
	19	1 GHz ~18 GHz	Fig.19	P
	39	1 GHz ~18 GHz	Fig.20	P
	Restricted Band(CH0)	2.38 GHz ~ 2.45 GHz	Fig.21	P
	Restricted Band(CH39)	2.45 GHz ~ 2.5 GHz	Fig.22	P
	All channels	9 kHz ~30 MHz	Fig.23	P
		30 MHz ~1 GHz	Fig.24	P
		18 GHz ~ 26.5 GHz	Fig.25	P

Worst Case Result
CH39 (1-18GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
4879.800000	48.30	74.00	25.70	H	3.7
11185.285714	47.52	74.00	26.48	H	9.7
12417.428572	48.72	74.00	25.28	H	11.4
14895.857143	51.83	74.00	22.17	H	13.0
15934.714286	52.45	74.00	21.55	H	14.1
17054.142857	55.31	74.00	18.69	H	18.5

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
4879.800000	38.02	54.00	15.98	H	3.7
11185.285714	35.66	54.00	18.34	H	9.7
12417.428572	36.69	54.00	17.31	H	11.4
14895.857143	39.31	54.00	14.69	H	13.0
15934.714286	40.01	54.00	13.99	H	14.1
17054.142857	42.43	54.00	11.57	H	18.5

Note:

A "reference path loss" is established and the A_{Rpl} is the attenuation of "reference path loss", and Antenna Factor, the gain of the preamplifier, the cable loss. P_{Mea} is the field strength recorded from the instrument.

The measurement results are obtained as described below:

Result= P_{Mea} +Cable Loss +Antenna Factor-Gain of the preamplifier.

See below for test graphs.

Conclusion: Pass

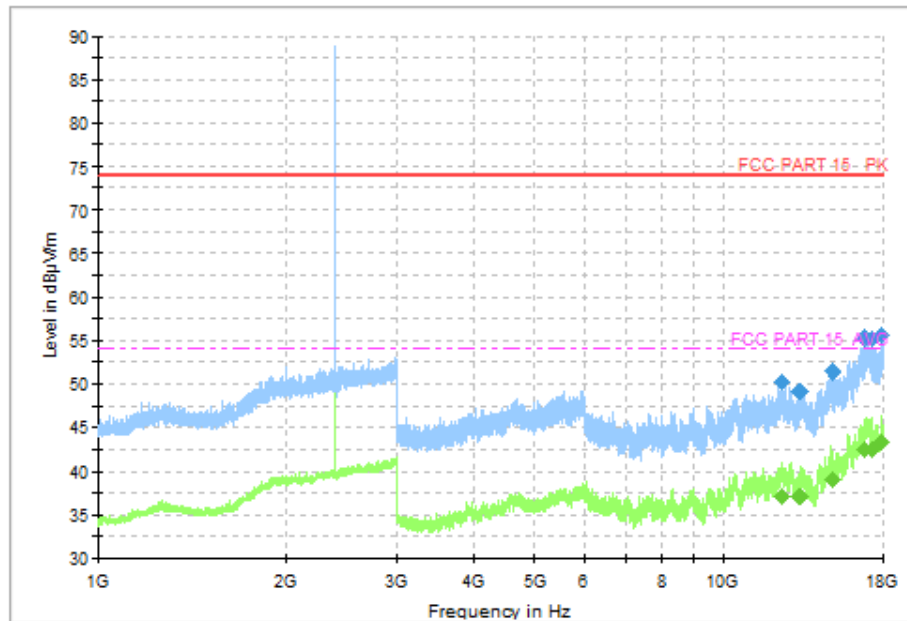


Fig.18 Radiated Spurious Emission (CH0, 1 GHz ~18 GHz), LE 1M

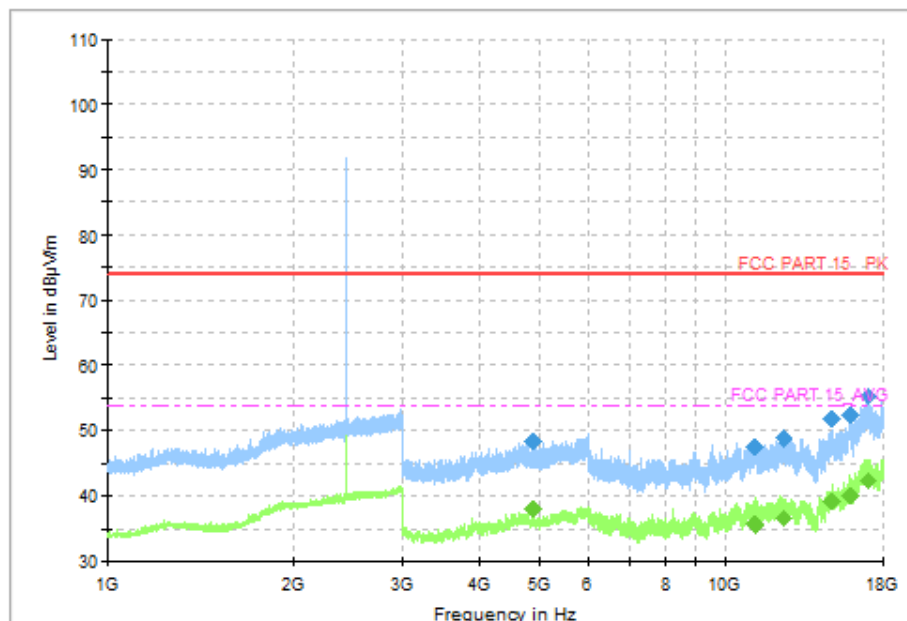


Fig.19 Radiated Spurious Emission (CH19, 1 GHz ~18 GHz), LE 1M

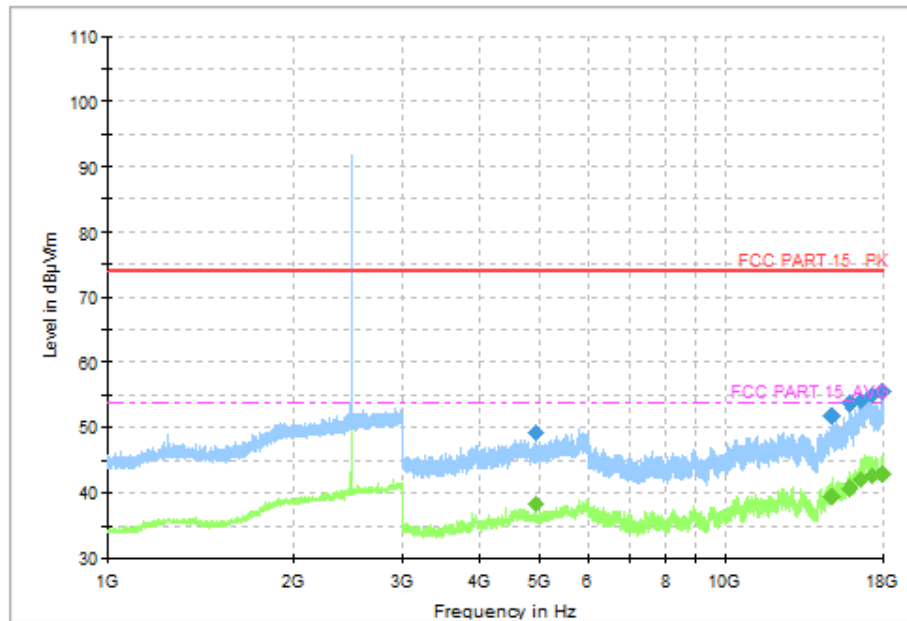


Fig.20 Radiated Spurious Emission (CH39, 1 GHz ~18 GHz), LE 1M

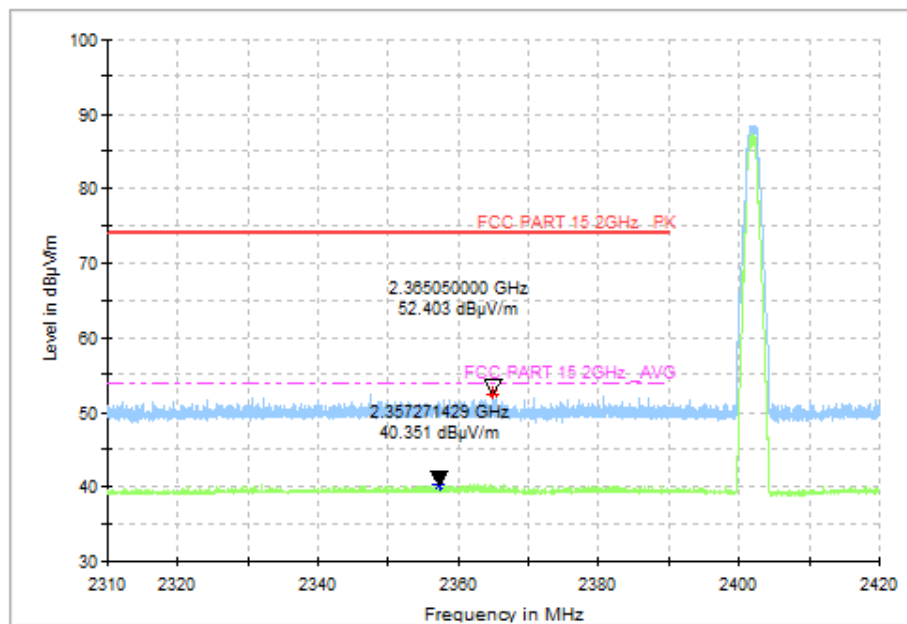


Fig.21 Radiated Band Edges (CH0, 2380GHz~2450GHz), LE 1M

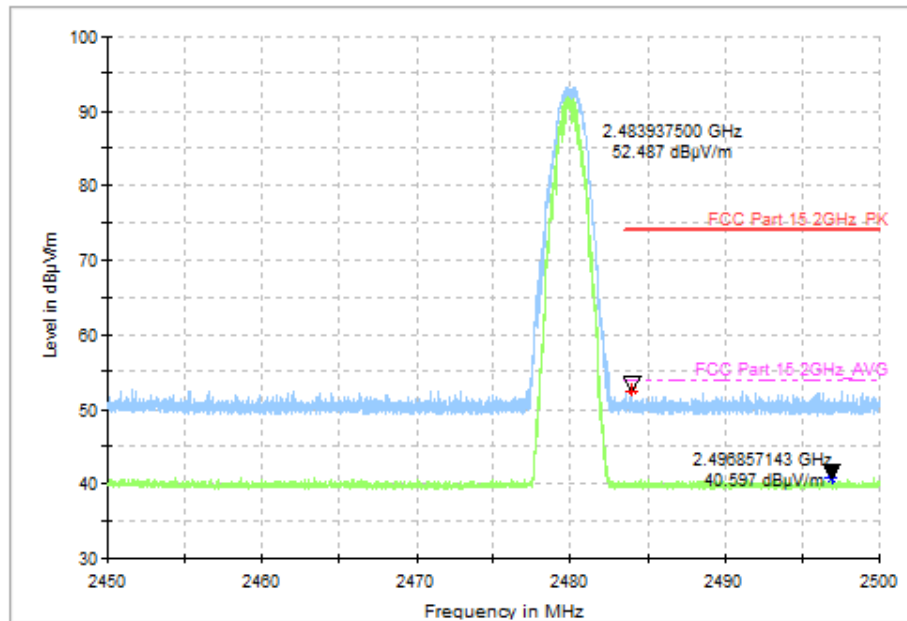


Fig.22 Radiated Band Edges (CH39, 2450GHz~2500GHz), LE 1M

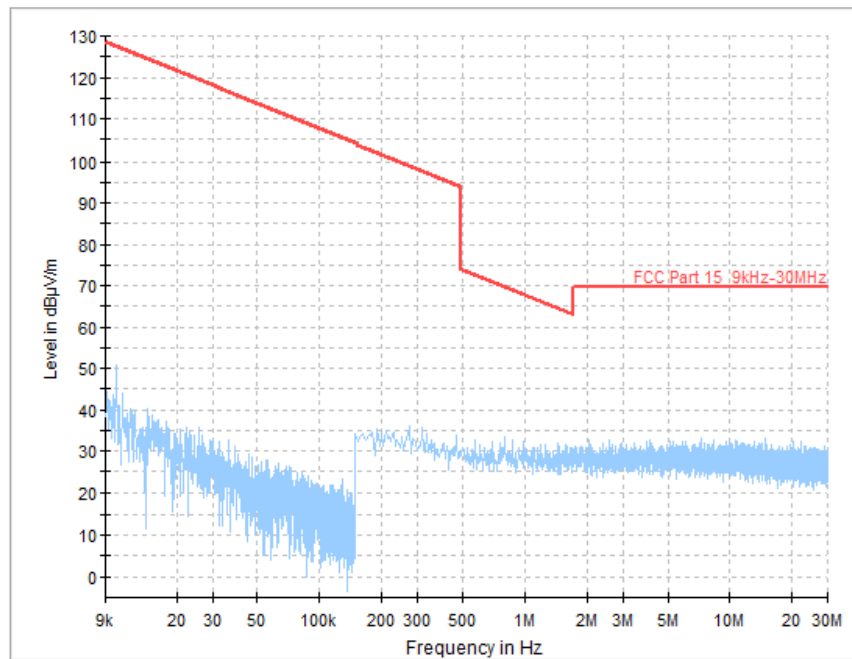


Fig.23 Radiated Spurious Emission (All Channels, 9 kHz-30 MHz), LE 1M

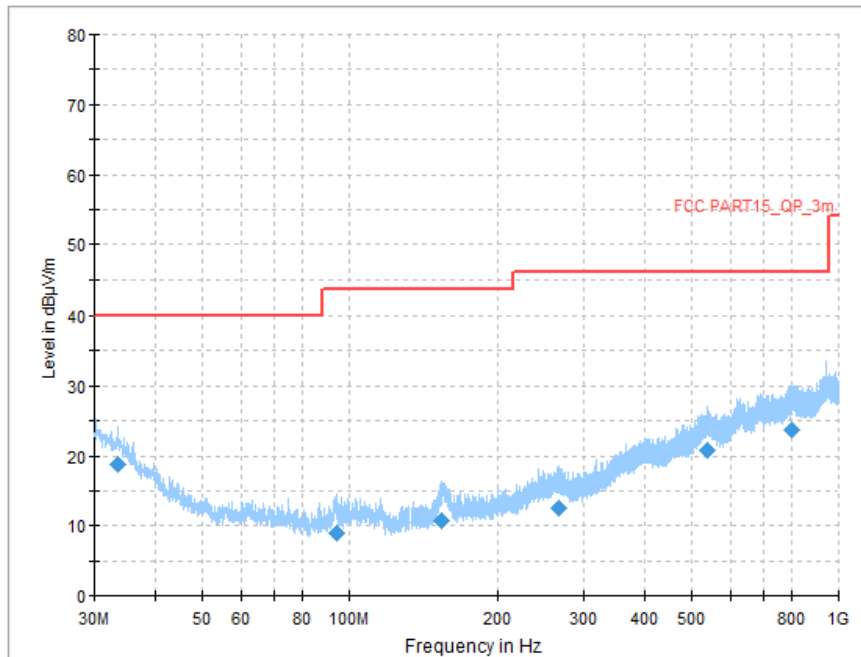


Fig.24 Radiated Spurious Emission (All Channels, 30 MHz-1 GHz), LE 1M

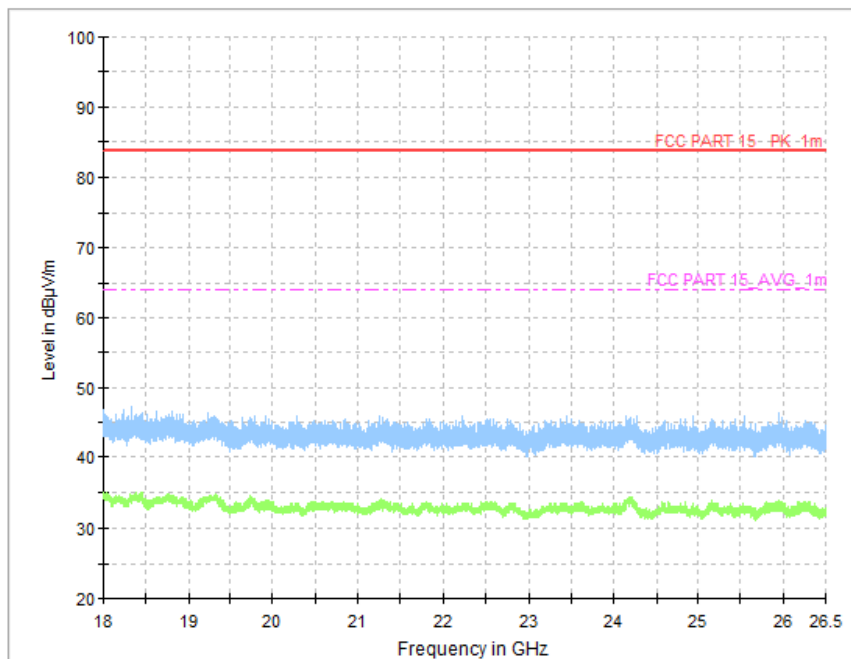


Fig.25 Radiated Spurious Emission (All Channels, 18 GHz-26.5 GHz), LE 1M

A.7 AC Power line Conducted Emission

Test Condition:

Voltage (V)	Frequency (Hz)
120	60

Measurement Result and limit:

LE 1M

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Average-peak Limit (dB μ V)	Result (dB μ V)		Conclusion
			Traffic	Idle	
0.15 to 0.5	66 to 56	56 to 46	Fig.26	Fig.27	P
0.5 to 5	56	46			
5 to 30	60	50			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

Note: The measurement results include the L1 and N measurements.

See below for test graphs.

Conclusion: Pass

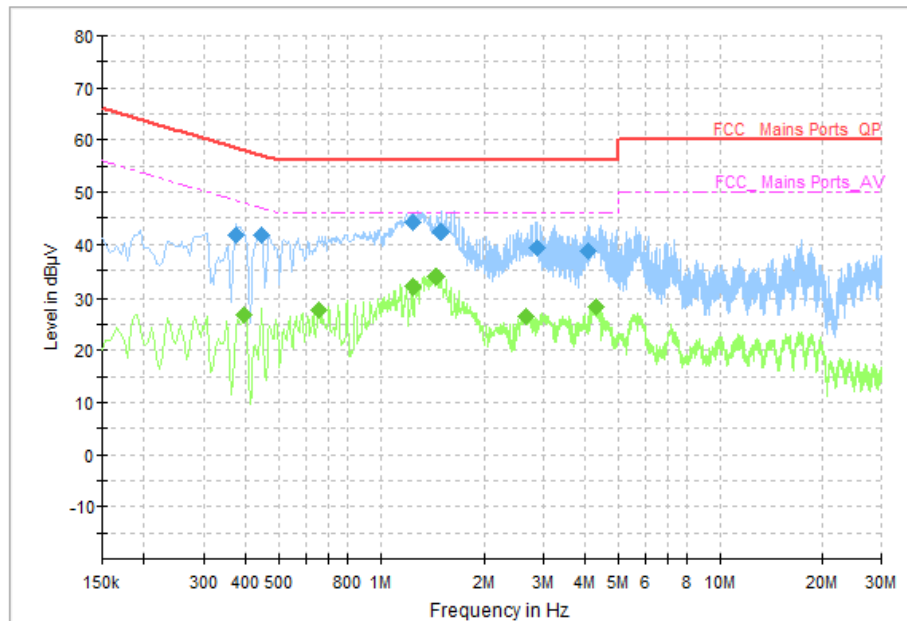


Fig.26 AC Power line Conducted Emission (Traffic), LE 1M

Measurement Results: Quasi Peak

Frequency (MHz)	Quasi Peak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.374000	41.65	58.41	16.76	N	ON	10
0.446000	41.69	56.95	15.25	L1	ON	10
1.242000	44.07	56.00	11.93	L1	ON	10
1.502000	42.36	56.00	13.64	L1	ON	10
2.882000	39.39	56.00	16.61	N	ON	10
4.078000	38.65	56.00	17.35	L1	ON	10

Measurement Results: Average

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.394000	26.87	47.98	21.11	L1	ON	10
0.658000	27.56	46.00	18.44	L1	ON	10
1.242000	31.88	46.00	14.12	N	ON	10
1.454000	33.73	46.00	12.27	L1	ON	10
2.654000	26.37	46.00	19.63	N	ON	10
4.298000	28.37	46.00	17.63	L1	ON	10

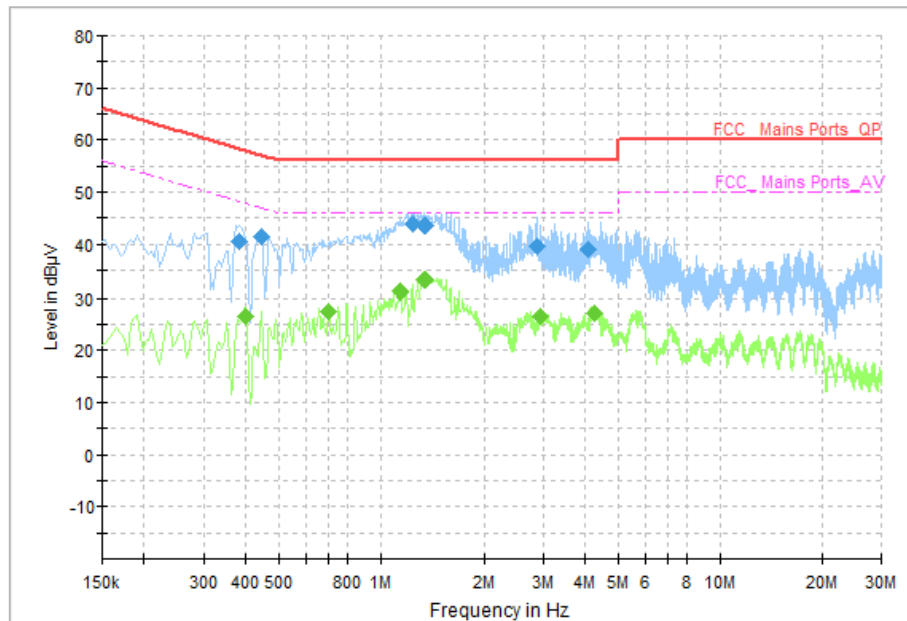


Fig.27 AC Power line Conducted Emission (Idle), LE 1M

Measurement Results: Quasi Peak

Frequency (MHz)	Quasi Peak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.382000	40.65	58.24	17.59	L1	ON	10
0.446000	41.38	56.95	15.57	L1	ON	10
1.242000	44.06	56.00	11.94	N	ON	10
1.338000	43.67	56.00	12.33	L1	ON	10
2.882000	39.78	56.00	16.22	N	ON	10
4.078000	38.92	56.00	17.08	L1	ON	10

Measurement Results: Average

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.398000	26.52	47.90	21.38	N	ON	10
0.702000	27.39	46.00	18.61	L1	ON	10
1.146000	31.17	46.00	14.83	N	ON	10
1.338000	33.15	46.00	12.85	L1	ON	10
2.934000	26.52	46.00	19.48	N	ON	10
4.238000	27.02	46.00	18.98	N	ON	10

END OF REPORT