



FCC PART 15C & RSS 247 TEST REPORT

No. I18N00056-BLE

for

Doro AB

Doro 4GLTE Clamshell phone

DFC-0180

with

Hardware Version: 1021

Software Version: CALM01A-S00A_DFC0180_113_

USERDEBUG_SECUREBOOT_180109

FCC ID: WS5DFC0180

IC: 8175A-DFC0180

Issued Date: 2018-02-27

Designation Number: CN1210

ISED Assigned Code: 23289

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.

Test Laboratory:

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
I18N00056-BLE	Rev.0	1st edition	2018-02-27

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1. Test Laboratory

1.1. Testing Location

Location: Shenzhen Academy of Information and Communications Technology
Address: Building G, Shenzhen International Innovation Center, No.1006
Shennan Road, Futian District, Shenzhen, Guangdong Province ,China
Postal Code: 518026
Telephone: +86(0)755-33322000
Fax: +86(0)755-33322001


1.2. Testing Environment

Normal Temperature: 15-30℃
Relative Humidity: 35-60%

1.3. Project data

Testing Start Date: 2018-01-15
Testing End Date: 2018-02-02

1.4. Signature



An Ran

(Prepared this test report)



Tang Weisheng

(Reviewed this test report)



Zhang Bojun

(Approved this test report)

2. Client Information

2.1. Applicant Information

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2.2. Manufacturer Information

Company Name: CK TELECOM LTD.
Address: Technology Road. High-Tech Development Zone.
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Contact Person Xin Li
E-Mail xin.li@ck-telecom.com
Telephone: 0755-26739100 ext.8515
Fax: 0755-26739600

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

3.1. About EUT

Description	Doro 4GLTE Clamshell phone
Model Name	DFC-0180
Market Name	Doro7050
Frequency Range	2400MHz~2483.5MHz
Type of Modulation	GFSK
Number of Channels	40
Antenna Type	Integrated
Antenna Gain	-1.5dBi
Power Supply	3.8V DC by Battery
FCC ID	WS5DFC0180
IC number	8175A-DFC0180

Note: Components list, please refer to documents of the manufacturer.

3.2. Internal Identification of EUT

EUT ID*	IMEI	HW Version	SW Version	Receive Date
EUT1	/	1021	CALM01A-S00A_DFC018 0_113_USERDEBUG_SE CUREBOOT_180109	2018-01-15

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

3.3. Internal Identification of AE

AE ID*	Description	Mode	Manufacturer
AE1	Battery	DBS-1350A	Veken
AE2	Charger	A8-501000	Dongguan Aohai Power Techonolgy Co., LTD

*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.

It consists of normal options: travel charger, USB cable.

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 Part15	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	2016
ANSI C63.10	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices	2013
RSS-247	Spectrum Management and Telecommunications Radio Standards Specification Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and License-Exempt Local Area Network (LE-LAN) Devices	Issue 2 February, 2017
RSS-Gen	Spectrum Management and Telecommunications Radio Standards Specification General Requirements for Compliance of Radio Apparatus	Issue 4 November, 2014

5. Test Results

5.1. Summary of Test Results

No	Test cases	Sub-clause of Part 15C	Sub-clause of IC	Verdict
0	Antenna Requirement	15.203	/	P
1	Maximum Peak Output Power	15.247 (b)	RSS-247 section 5.4	P
2	Peak Power Spectral Density	15.247 (e)	RSS-247 section 5.2	P
3	Occupied 6dB Bandwidth	15.247 (a)	RSS-247 section 5.2	P
4	Band Edges Compliance	15.247 (d)	RSS-247 section 5.5	P
5	Transmitter Spurious Emission - Conducted	15.247 (d)	RSS-247 section 5.5/ RSS-Gen section 6.13	P
6	Transmitter Spurious Emission - Radiated	15.247, 15.205, 15.209	RSS-247 section 5.5/ RSS-Gen section 6.13	P
7	AC Power line Conducted Emission	15.107, 15.207	RSS-Gen section 8.8	P
8	Occupied Bandwidth	/	RSS-Gen section 6.6	P

See **ANNEX A** for details.

5.2. Statements

SAICT has evaluated the test cases requested by the applicant/manufacture as listed in section 5.1 of this report, for the EUT specified in section 3, according to the standards or reference documents listed in section 4.2.

5.3. Terms used in the result table

Terms used in Verdict column

P	Pass
NA	Not Available
F	Fail

Abbreviations

AC	Alternating Current
AFH	Adaptive Frequency Hopping
BW	Band Width
E.I.R.P.	equivalent isotropic radiated power
ISM	Industrial, Scientific and Medical
R&TTE	Radio and Telecommunications Terminal Equipment
RF	Radio Frequency
Tx	Transmitter

5.4. Laboratory Environment

Semi-anechoic chamber did not exceed following limits along the EMC testing

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 35 %, Max. = 60 %
Shielding effectiveness	0.014MHz - 1MHz, >60dB; 1MHz - 1000MHz, >90dB.
Electrical insulation	> 2 MΩ
Ground system resistance	< 4Ω
Normalised site attenuation (NSA)	< ±4dB, 3m/10m distance, from 30 to 1000 MHz
Uniformity of field strength	Between 0 and 6 dB, from 80 to 3000 MHz

Shielded room did not exceed following limits along the EMC testing

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 35 %, Max. = 60 %
Shielding effectiveness	0.014MHz - 1MHz, >60dB; 1MHz - 1000MHz, >90dB.
Electrical insulation	> 2 MΩ
Ground system resistance	< 4 Ω

Fully-anechoic chamber did not exceed following limits along the EMC testing

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 35 %, Max. = 60 %
Shielding effectiveness	0.014MHz - 1MHz, >60dB; 1MHz - 1000MHz, >90dB.
Electrical insulation	> 2 MΩ
Ground system resistance	< 4Ω
Voltage Standing Wave Ratio (VSWR)	≤6dB, from 1 to 18 GHz, 3m distance

6. Test Facilities Utilized

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date	Calibration Period
1	Vector Signal Analyzer	FSV40	100903	Rohde & Schwarz	2019.01.17	1 year
2	Test Receiver	ESCI	100702	Rohde & Schwarz	2018.06.25	1 year
3	LISN	ENV216	102067	Rohde & Schwarz	2018.07.19	1 year

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date	Calibration Period
1	Chamber	FACT3-2.0	1285	ETS-Lindgren	2019.11.27	3 years
2	Test Receiver	ESR7	101676	Rohde & Schwarz	2018.11.29	1 year
3	Spectrum Analyser	FSV40	102192	Rohde & Schwarz	2018.05.22	1 year
4	BiLog Antenna	VULB9163	9163 329	Schwarzbeck	2020.02.27	3 years
5	Horn Antenna	3117	00066577	ETS-Lindgren	2019.04.05	3 years
6	Loop Antenna	HLA6120	35779	TESEQ	2019.05.02	3 years
7	Horn Antenna	QSH-SL-18-26-S-20	17013	Q-par	2020.01.15	3 years

Test software

No.	Equipment	Manufacturer	Version
1	TechMgr Software	CAICT	2.1.1
2	EMC32	Rohde & Schwarz	8.53.0
3	EMC32	Rohde & Schwarz	10.01.00

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. Measurement Uncertainty

Test Name	Uncertainty	
1. RF Output Power - Conducted	±1.32dB	
2. Power Spectral Density - Conducted	±2.32dB	
3. Occupied channel bandwidth - Conducted	±66Hz	
4 Transmitter Spurious Emission - Conducted	30MHz≤f≤1GHz	±1.41dB
	1GHz≤f≤7GHz	±1.92dB
	7GHz≤f≤13GHz	±2.31dB
	13GHz≤f≤26GHz	±2.61dB
5. Transmitter Spurious Emission - Radiated	9kHz≤f≤30MHz	±1.84dB
	30MHz≤f≤1GHz	±4.90dB
	1GHz≤f≤18GHz	±5.32dB
	18GHz≤f≤40GHz	±4.66dB
6. AC Power line Conducted Emission	150kHz≤f≤30MHz	±2.72dB

ANNEX A: Detailed Test Results

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 -1.5 dBi.
The RF transmitter uses an integrate antenna without connector.**

A.1 Maximum Peak Output Power

Method of Measurement: See ANSI C63.10-clause 11.9.1.1

Use the following spectrum analyzer settings:

- a) Set the RBW = 1 MHz.
- b) Set VBW = 3 MHz.
- c) Set span = 3 MHz.
- d) Sweep time = auto couple.
- e) Detector = peak.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use peak marker function to determine the peak amplitude level.

Measurement Limit:

Standard	Limit (dBm)
FCC 47 CRF Part 15.247(b) & RSS-247 section 5.4	< 30

Measurement Results:

Mode	Frequency (MHz)	Peak Conducted Output Power (dBm)	Conclusion
GFSK	2402(CH0)	6.65	P
	2440(CH19)	7.77	P
	2480(CH39)	7.86	P

Conclusion: Pass

A.2 Peak Power Spectral Density

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

Measurement Limit:

Standard	Limit
FCC 47 CRF Part 15.247(e) & RSS-247 section 5.2	< 8 dBm/3 kHz

Measurement Results:

Mode	Frequency (MHz)	Peak Power Spectral Density (dBm)	Conclusion
GFSK	2402(CH0)	Fig.1	P
	2440(CH19)	Fig.2	P
	2480(CH39)	Fig.3	P

See below for test graphs.

Conclusion: PASS

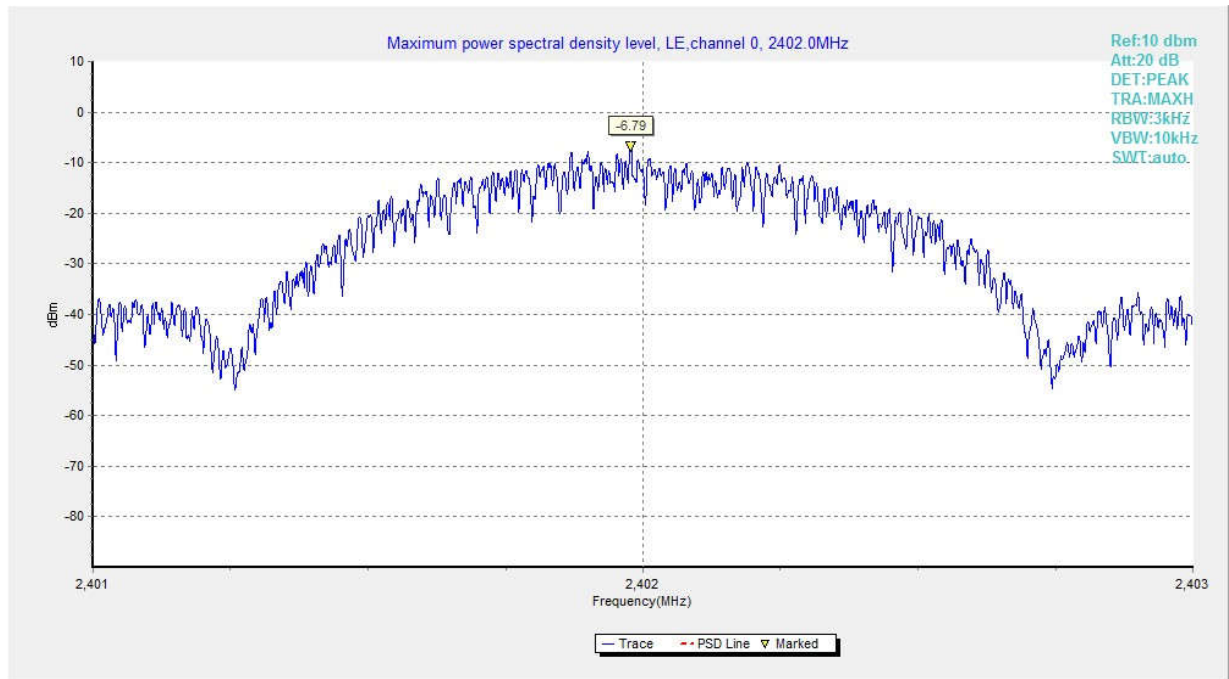


Fig.1 Power Spectral Density (Ch 0)

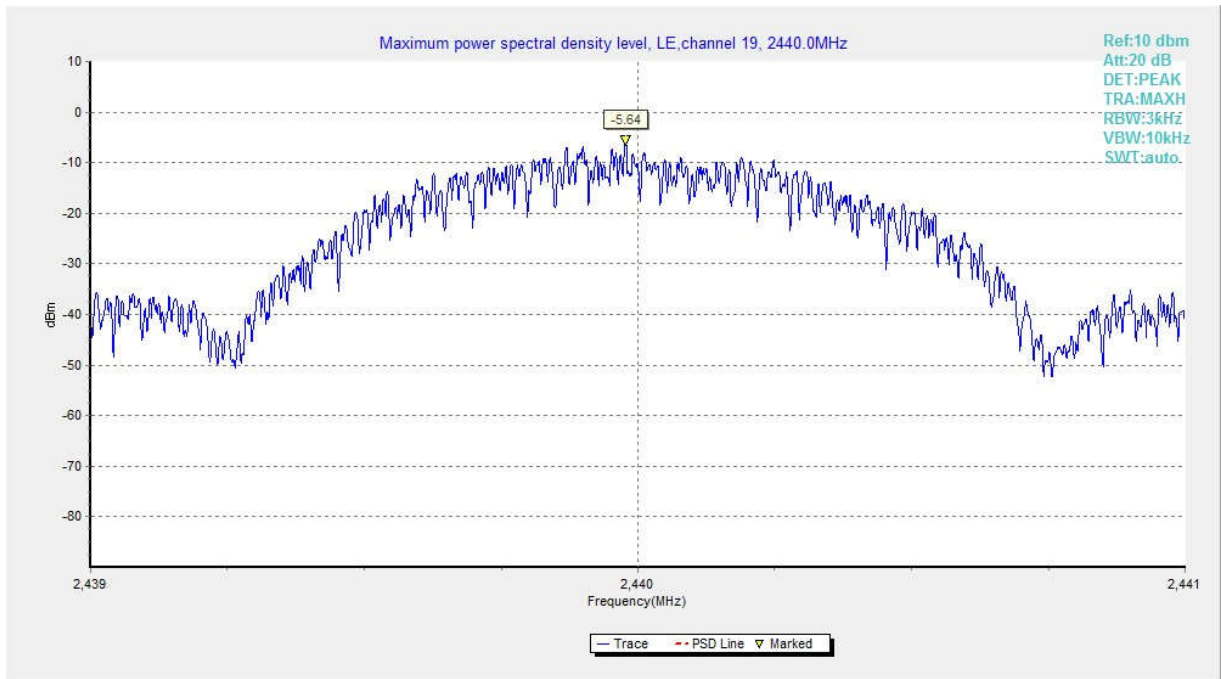


Fig.2 Power Spectral Density (Ch 19)

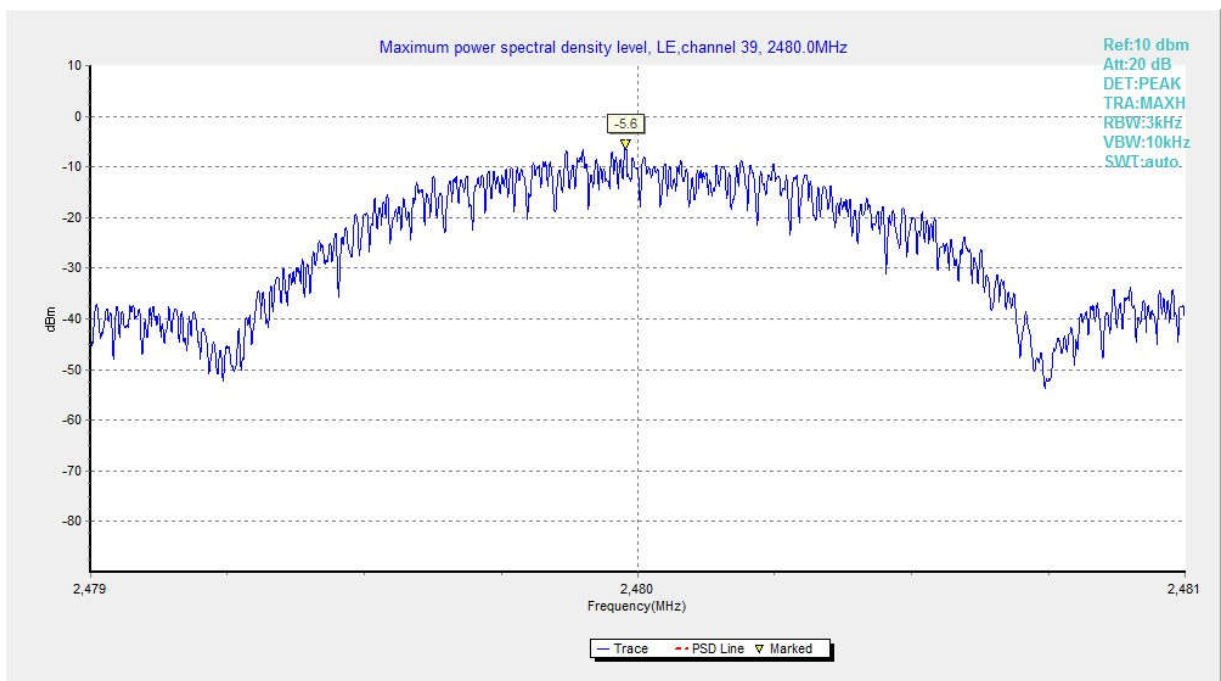


Fig.3 Power Spectral Density (Ch 39)

A.3 6dB Bandwidth

Measurement Limit:

Standard	Limit (kHz)
FCC 47 CFR Part 15.247 (a) & RSS-247 section 5.2	≥ 500

Measurement Result:

Mode	Frequency (MHz)	Test Results (kHz)		Conclusion
GFSK	2402(CH0)	Fig.4	703.50	P
	2440(CH19)	Fig.5	684.50	P
	2480(CH39)	Fig.6	688.00	P

See below for test graphs.

Conclusion: PASS

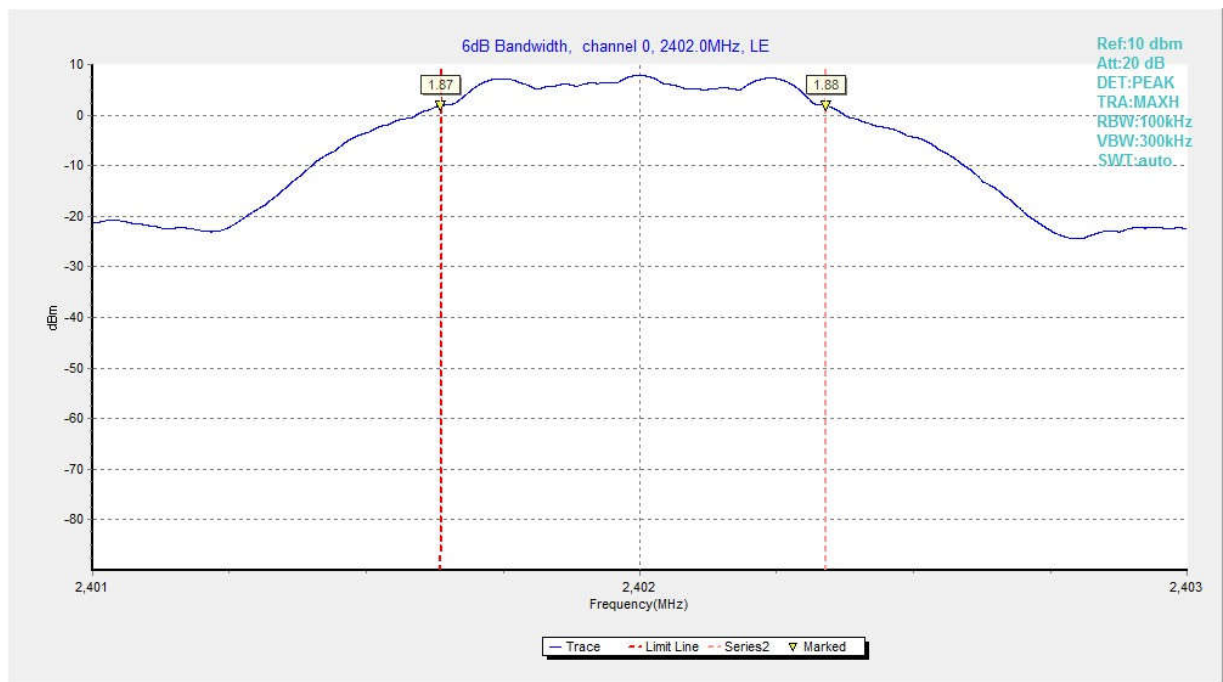


Fig.4 6dB Bandwidth (Ch 0)

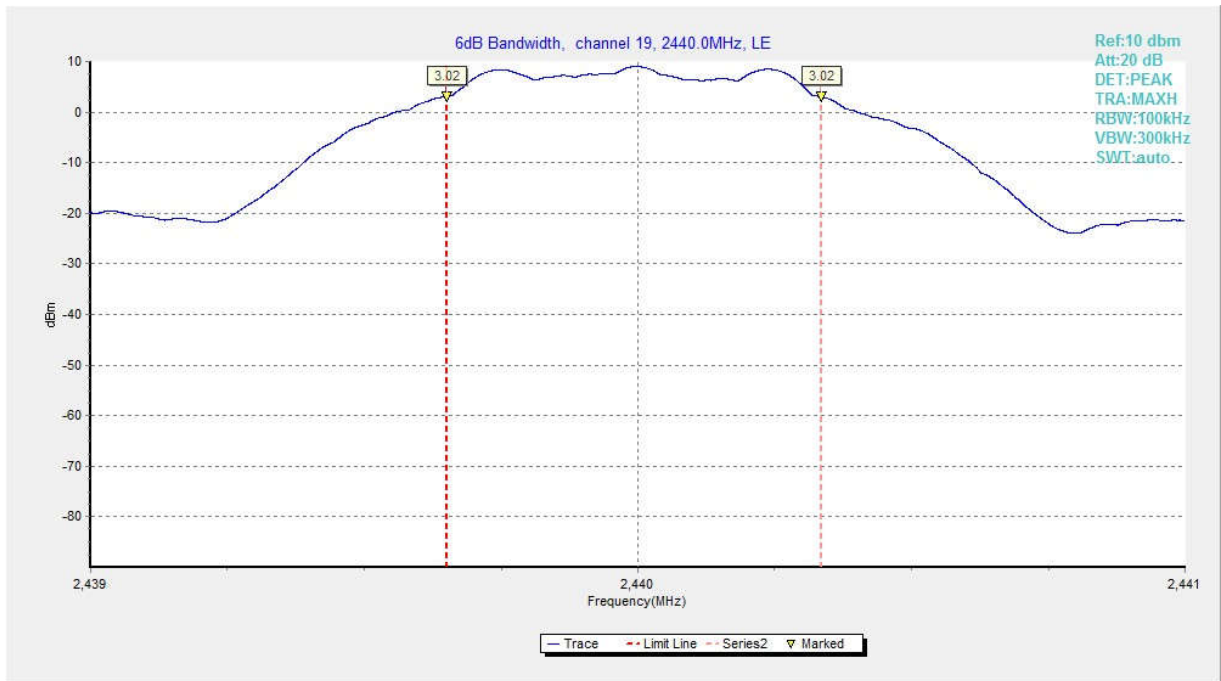


Fig.5 6dB Bandwidth (Ch 19)

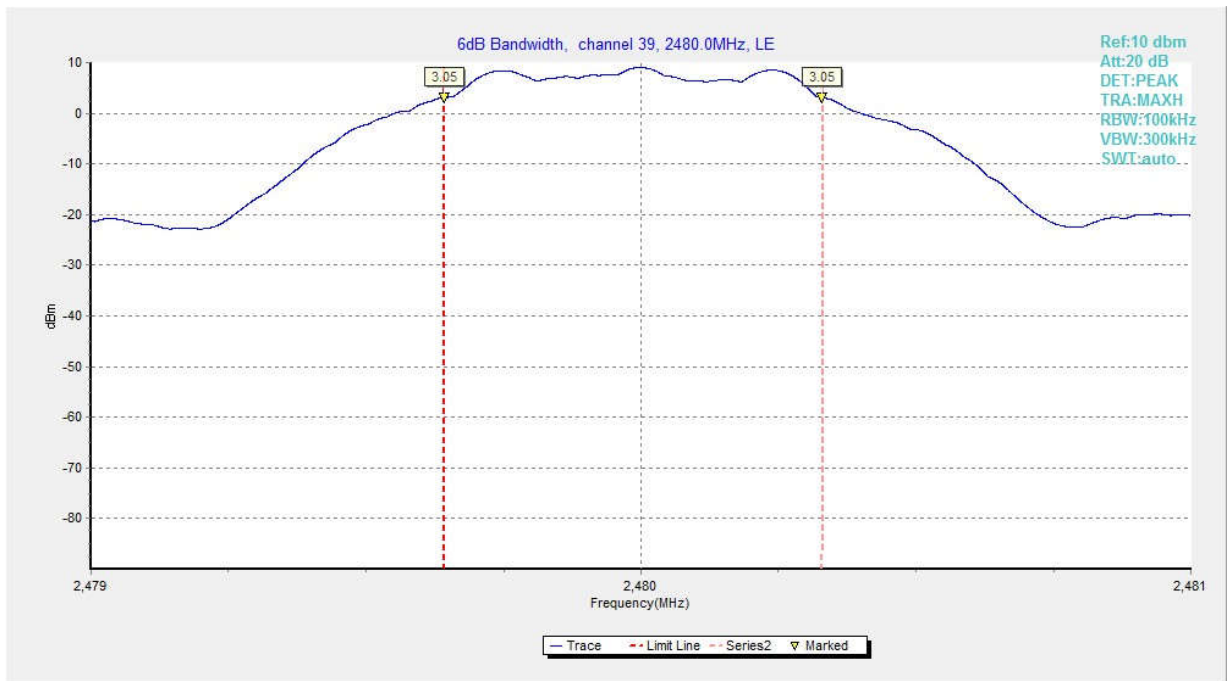


Fig.6 6dB Bandwidth (Ch 39)

A.4 Band Edges Compliance

Measurement Limit:

Standard	Limit (dBc)
FCC 47 CFR Part 15.247 (d) & RSS-247 section 5.5	> 20

Measurement Result:

Mode	Frequency (MHz)	Test Results		Conclusion
GFSK	2402(CH0)	Fig.7	-54.40	P
	2480(CH39)	Fig.8	-62.72	P

See below for test graphs.

Conclusion: Pass

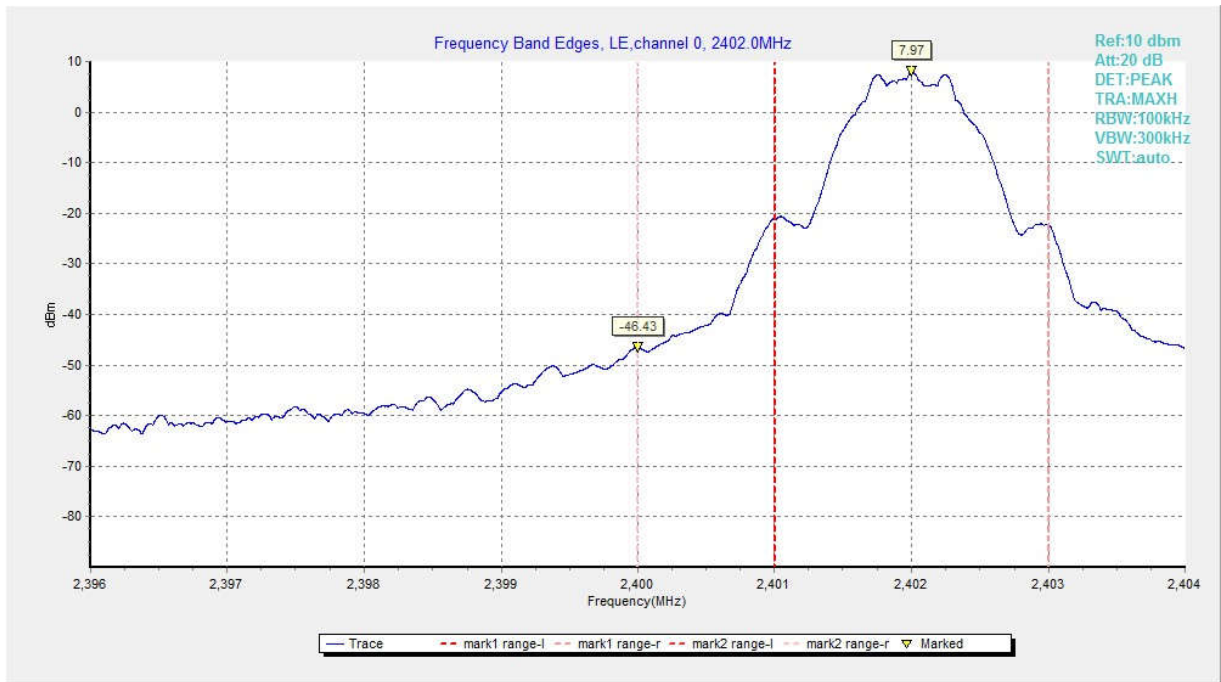


Fig.7 Band Edges (Ch 0)

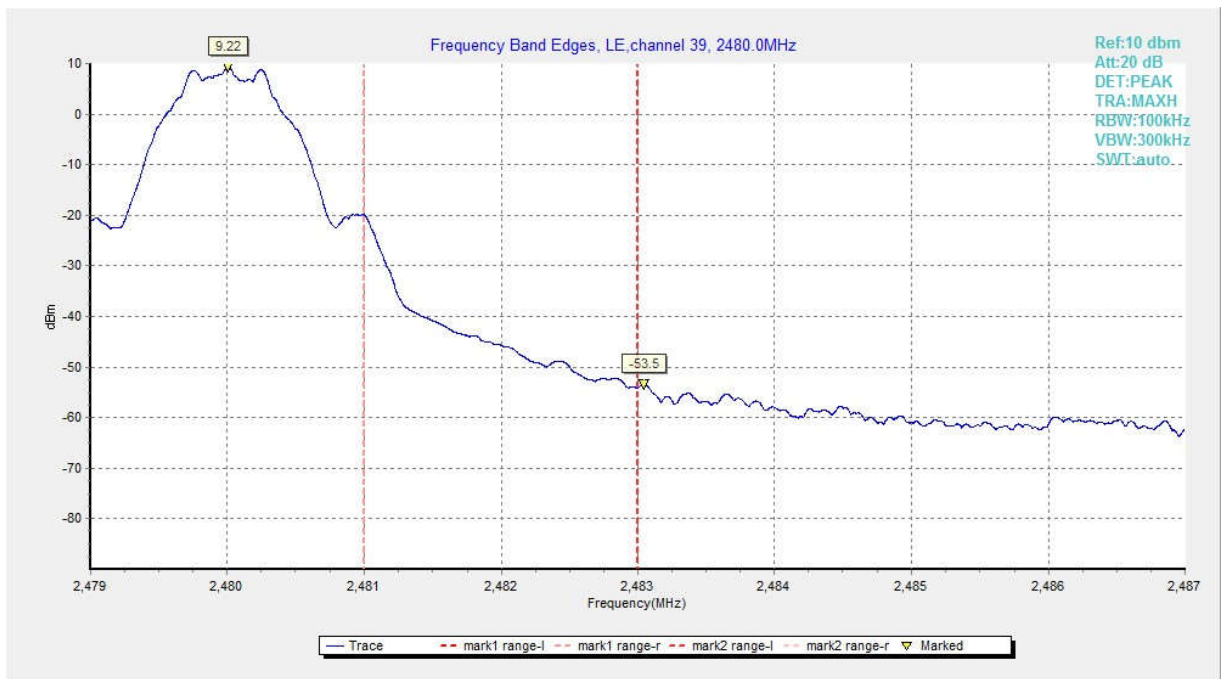


Fig.8 Band Edges (Ch 39)

A.5 Transmitter Spurious Emission - Conducted

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247 (d) & RSS-247 5.5/RSS-Gen section 6.13	20dB below peak output power in 100 kHz bandwidth

Measurement Results:

MODE	Channel	Frequency Range	Test Results	Conclusion
GFSK	0	2.402 GHz	Fig.9	P
		1GHz -3GHz	Fig.10	P
		3GHz-10GHz	Fig.11	P
	19	2.440 GHz	Fig.12	P
		1GHz -3GHz	Fig.13	P
		3GHz-10GHz	Fig.14	P
	39	2.480 GHz	Fig.15	P
		1GHz -3GHz	Fig.16	P
		3GHz-10GHz	Fig.17	P
	All channels	30MHz-1GHz	Fig.18	P
		10GHz-26GHz	Fig.19	P

See below for test graphs.

Conclusion: Pass

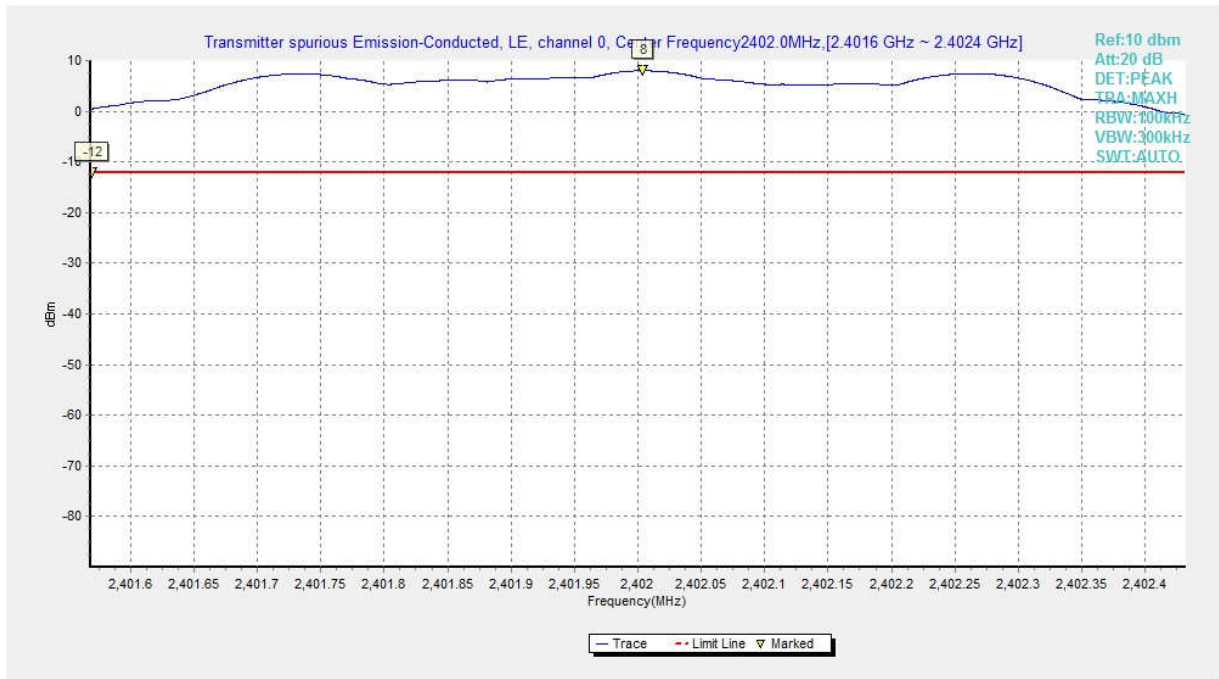


Fig.9 Conducted Spurious Emission (Ch0, Center Frequency)

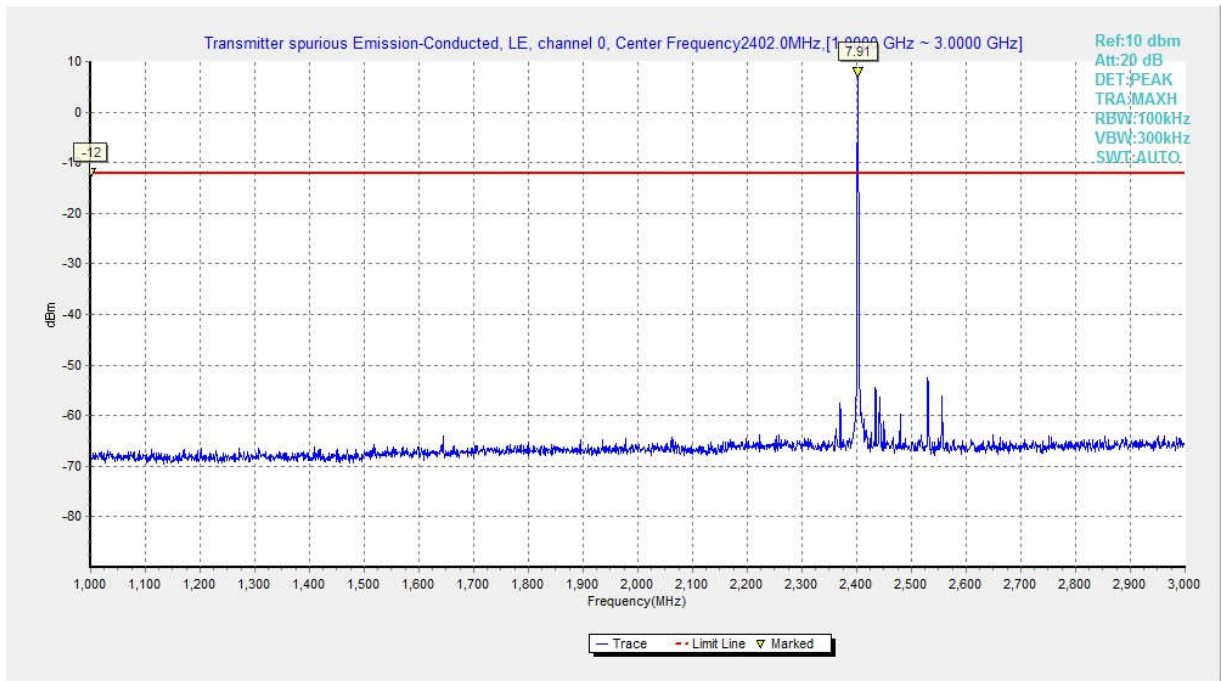


Fig.10 Conducted Spurious Emission (Ch0, 1 GHz-3 GHz)

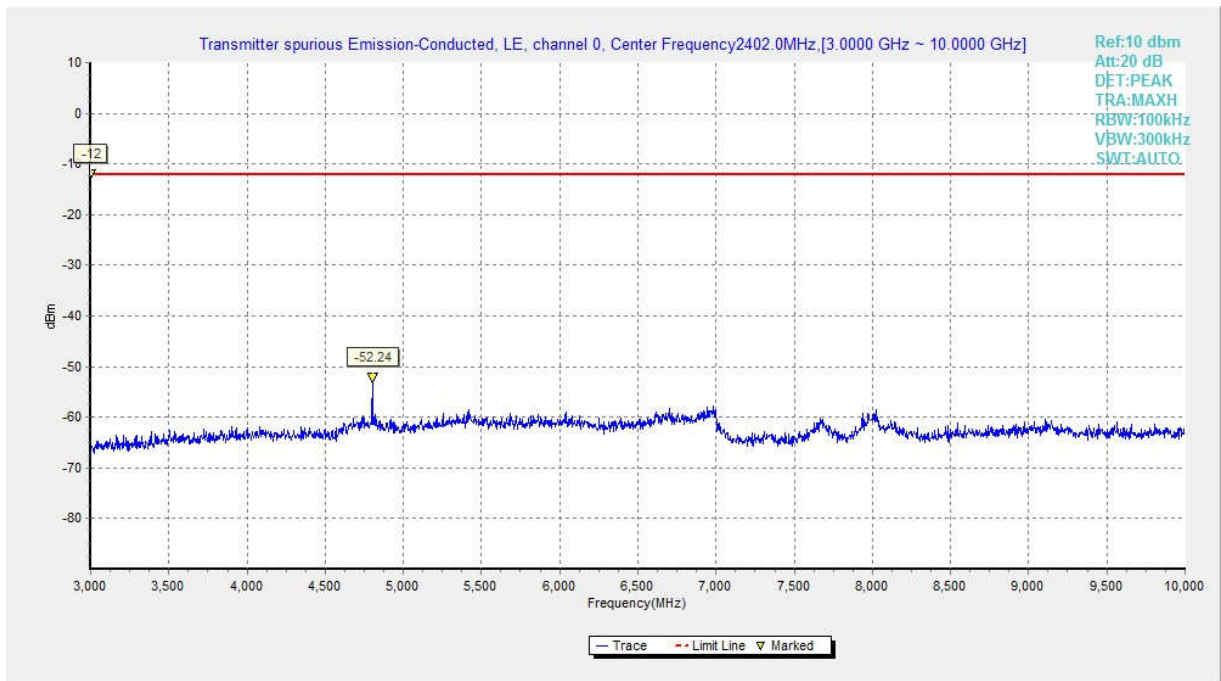


Fig.11 Conducted Spurious Emission (Ch0, 3 GHz-10 GHz)

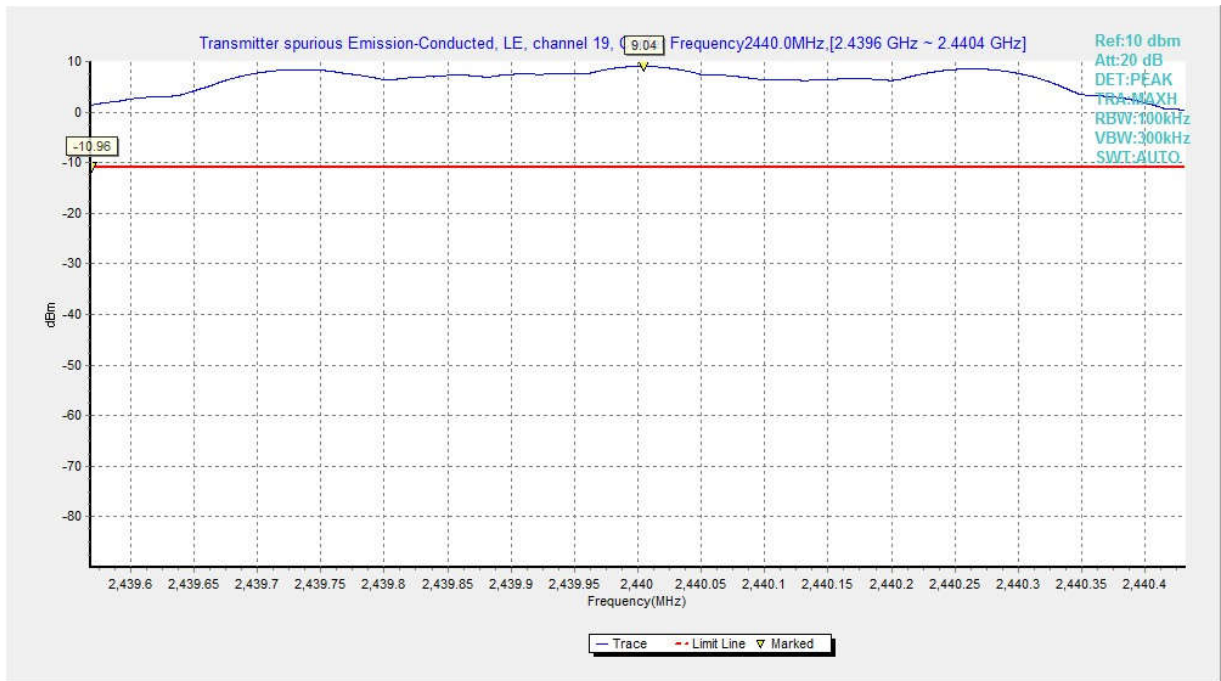


Fig.12 Conducted Spurious Emission (Ch19, Center Frequency)

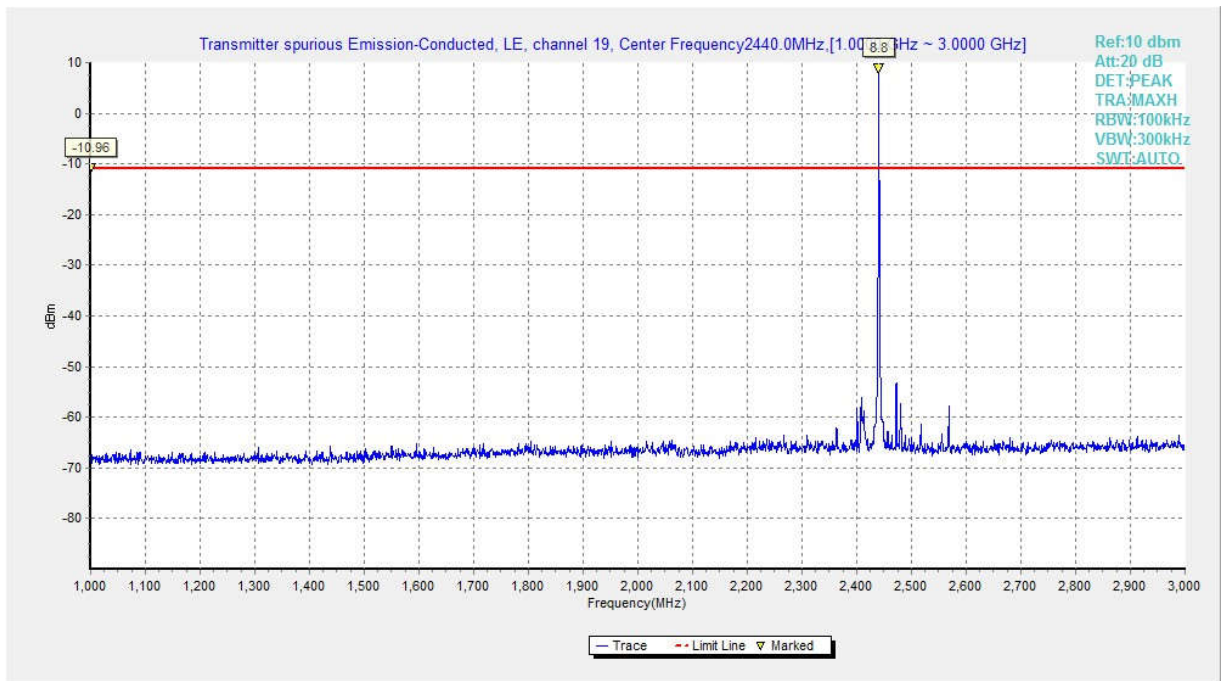


Fig.13 Conducted Spurious Emission (Ch19, 1 GHz-3 GHz)

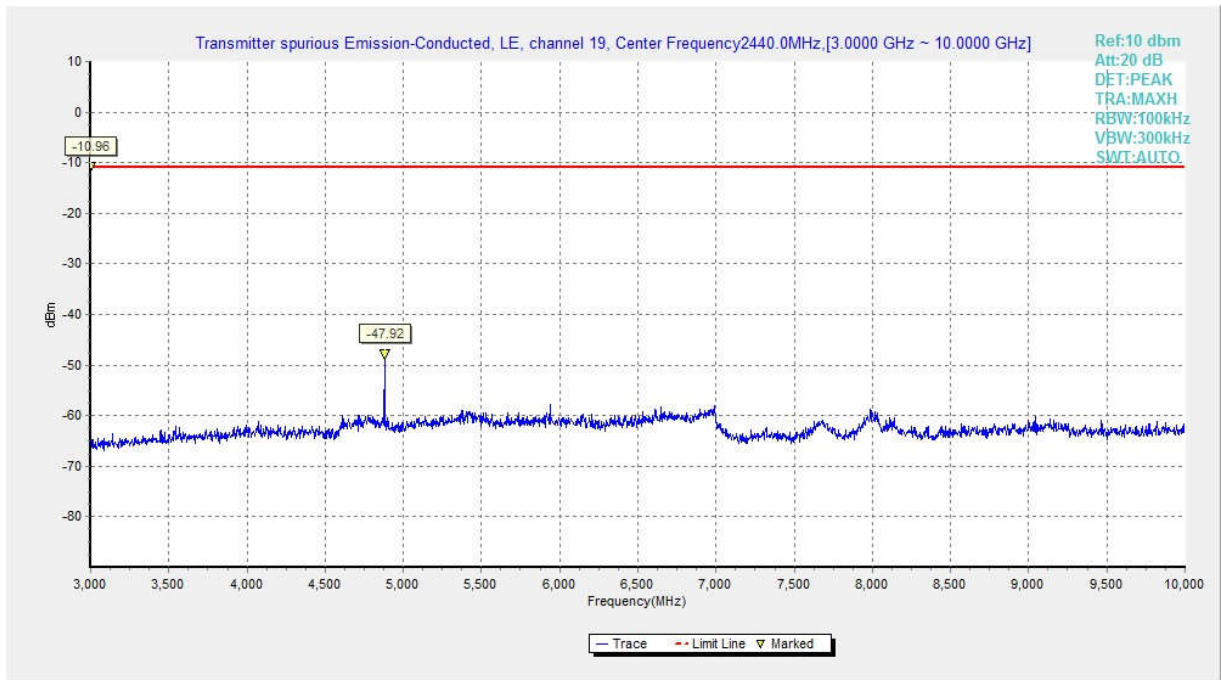


Fig.14 Conducted Spurious Emission (Ch19, 3 GHz-10 GHz)

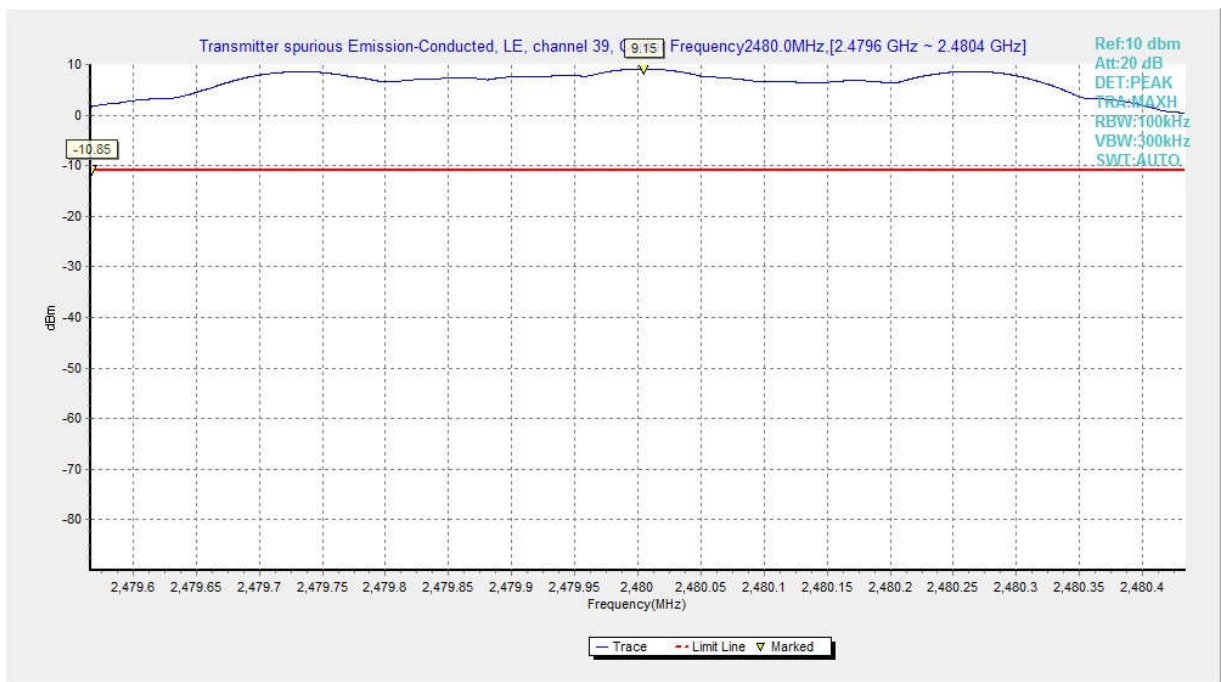


Fig.15 Conducted Spurious Emission (Ch39, Center Frequency)

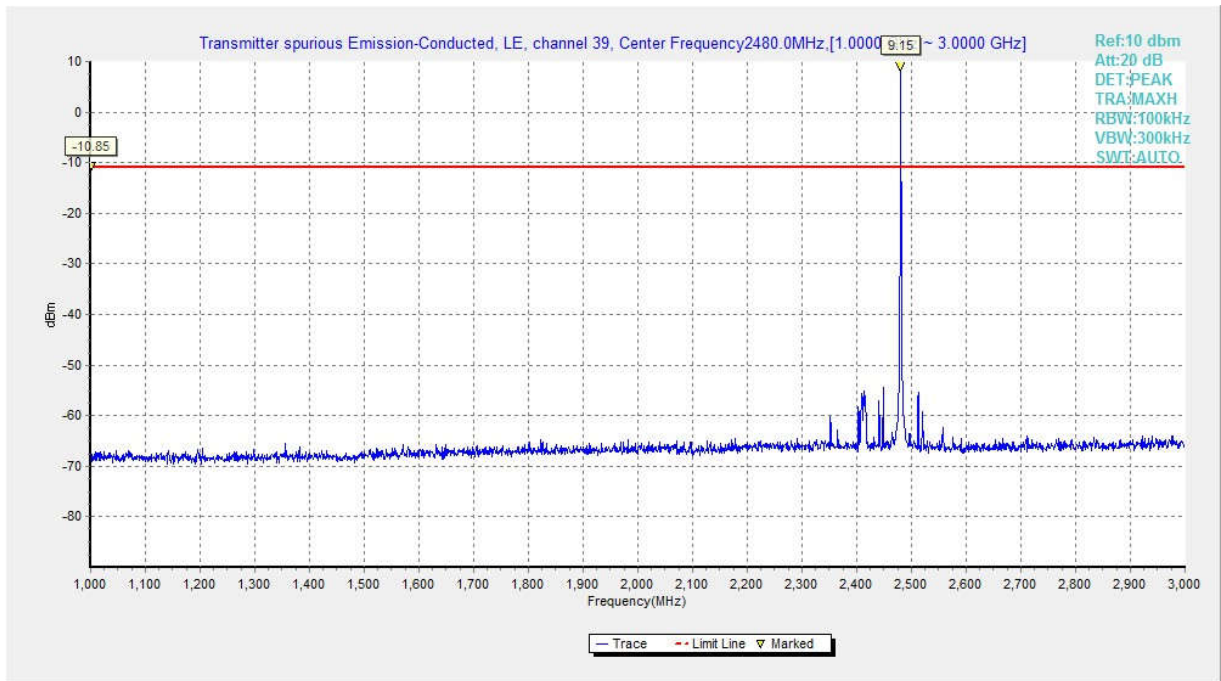


Fig.16 Conducted Spurious Emission (Ch39, 1 GHz-3 GHz)

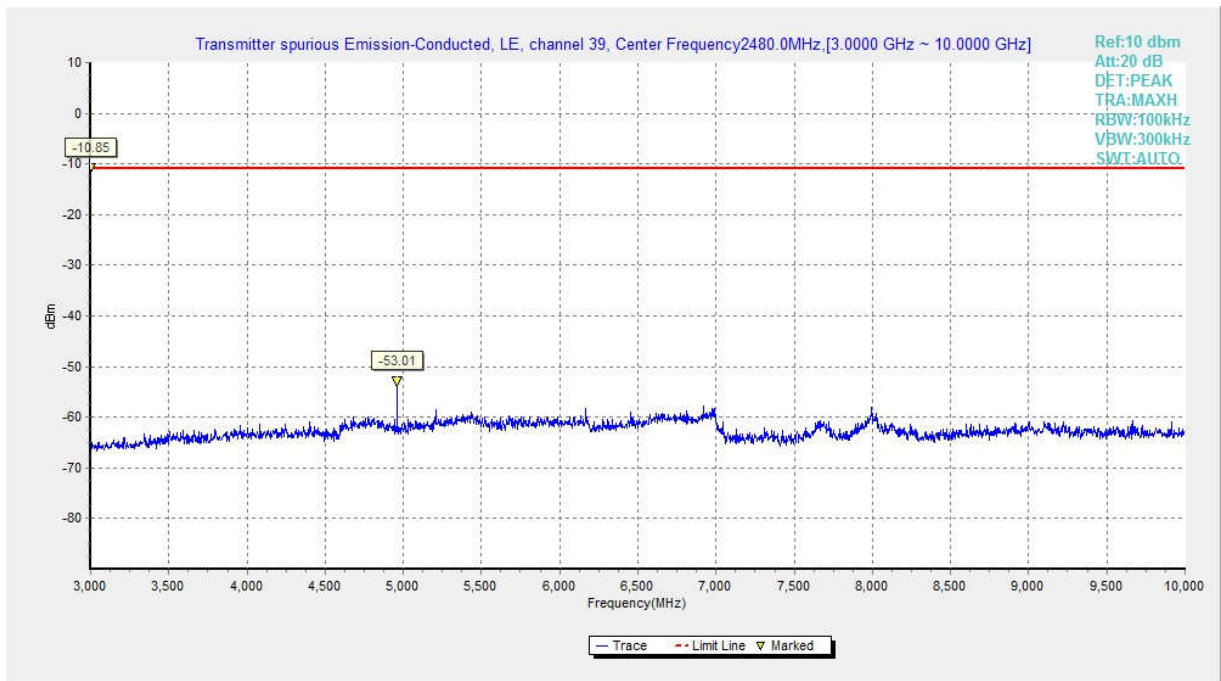


Fig.17 Conducted Spurious Emission (Ch39, 3 GHz-10 GHz)

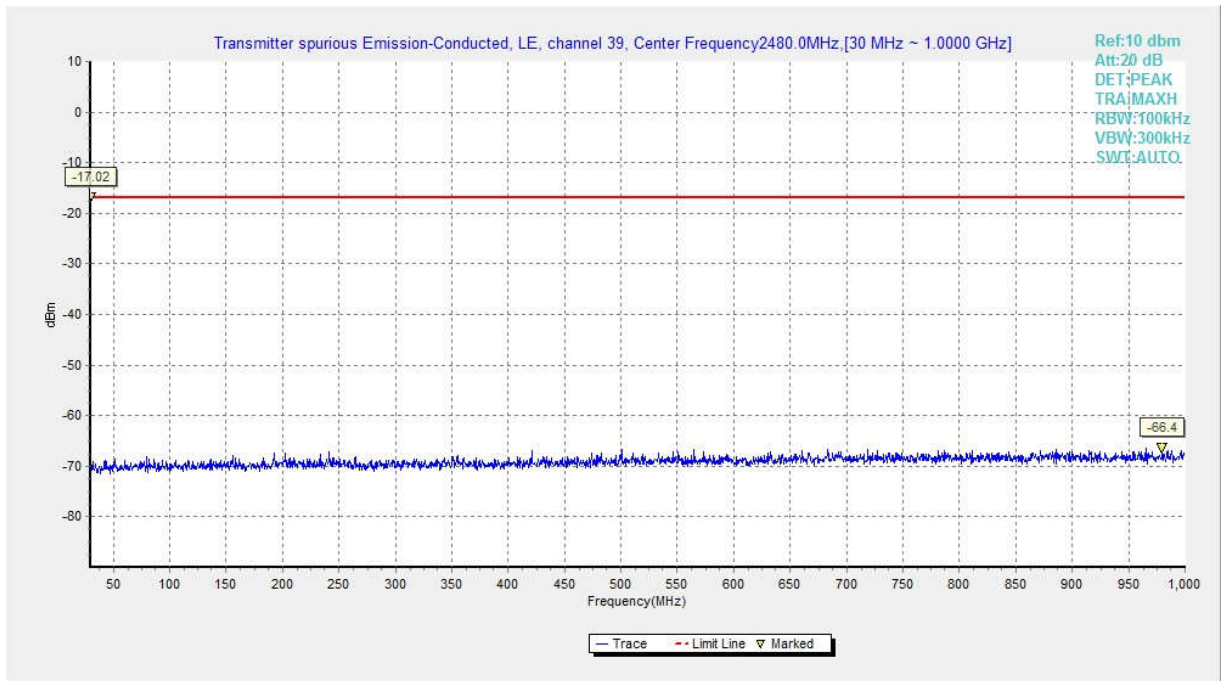


Fig.18 Conducted Spurious Emission (All channels, 30 MHz-1 GHz)

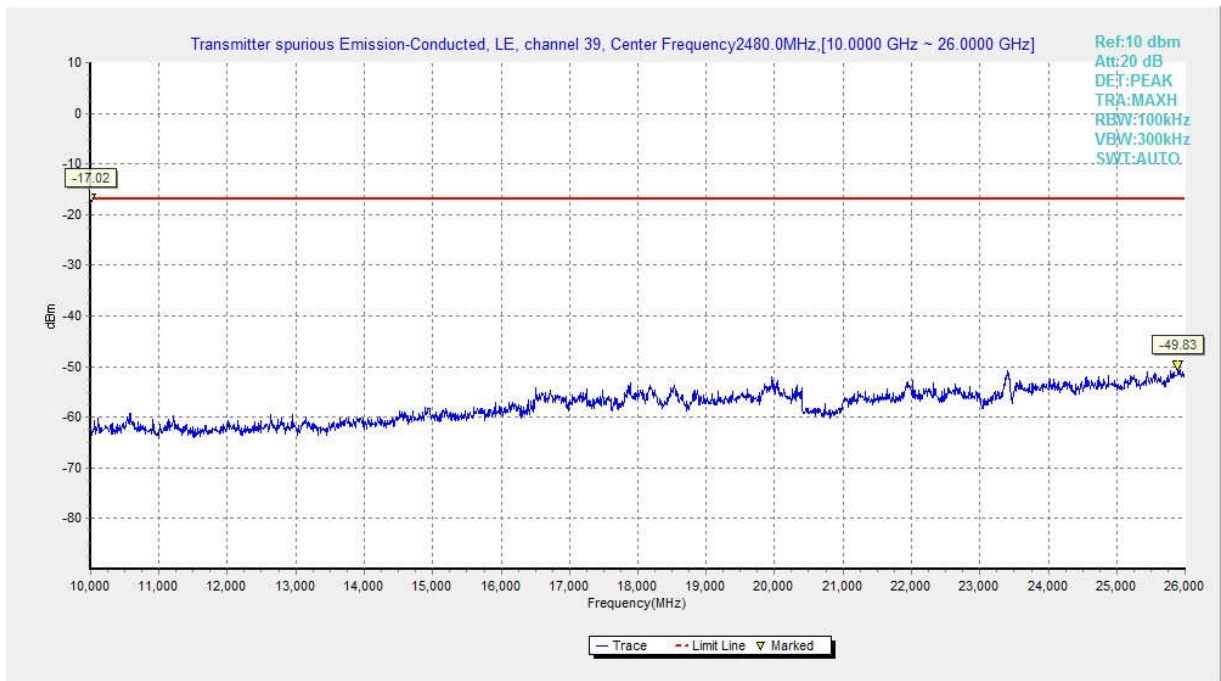


Fig.19 Conducted Spurious Emission (All channels, 10 GHz-26 GHz)

A.6 Transmitter Spurious Emission - Radiated

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247, 15.205, 15.209 & RSS-247 section 5.5/RSS-Gen section 6.13	20dB 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($\mu\text{V}/\text{m}$)	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:

GFSK	0	1 GHz ~18 GHz	Fig.20	P
	19	9 kHz ~30 MHz	Fig.21	P
		30 MHz ~1 GHz	Fig.22	P
		1 GHz ~18 GHz	Fig.23	P
		18 GHz~ 26.5 GHz	Fig.24	P
		1 GHz ~18 GHz	Fig.25	P
	39	1 GHz ~18 GHz	Fig.25	P
	Restricted Band(CH0)	2.38 GHz ~ 2.45 GHz	Fig.26	P
Restricted Band(CH39)	2.45 GHz ~ 2.5 GHz	Fig.27	P	

GFSK CH0 (1-18GHz)

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB)
13839.500000	57.11	74.00	16.89	H	19.8
14689.000000	56.93	74.00	17.07	V	21.6
15571.000000	60.61	74.00	13.39	V	23.6
15967.000000	62.82	74.00	11.18	V	25.5
16595.500000	62.96	74.00	11.04	V	26.3
17707.500000	63.10	74.00	10.90	H	27.6

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB)
13911.000000	45.11	54.00	8.89	H	21.1
14681.000000	45.37	54.00	8.63	V	21.5
15573.500000	49.04	54.00	4.96	H	23.7
15926.500000	50.67	54.00	3.33	V	24.8
16595.500000	51.22	54.00	2.78	V	26.3
17721.000000	51.18	54.00	2.82	H	27.7

GFSK CH19 (1-18GHz)

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB)
13918.000000	57.26	74.00	16.74	H	20.6
14654.500000	58.00	74.00	16.00	V	21.3
15573.000000	60.26	74.00	13.74	V	23.7
16254.000000	62.22	74.00	11.78	V	25.1
16394.500000	63.13	74.00	10.87	V	25.8
17679.500000	63.81	74.00	10.19	V	27.2

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB)
13911.500000	46.17	54.00	7.83	V	21.0
14692.000000	46.12	54.00	7.88	V	21.6
15575.000000	49.40	54.00	4.60	H	23.7
15971.500000	50.79	54.00	3.21	V	25.5
16587.500000	51.62	54.00	2.38	V	26.3
17708.000000	51.78	54.00	2.22	H	27.6

GFSK CH39 (1-18GHz)

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB)
13911.500000	57.08	74.00	16.92	V	21.0
14456.000000	57.96	74.00	16.04	H	21.0
15229.000000	62.09	74.00	11.91	H	23.1
15942.000000	62.22	74.00	11.79	V	24.9
16627.500000	62.92	74.00	11.08	H	26.1
17702.000000	64.30	74.00	9.70	V	27.5

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB)
13911.000000	45.98	54.00	8.02	V	21.1
14682.000000	46.24	54.00	7.76	H	21.5
15574.000000	49.32	54.00	4.68	V	23.7
15932.000000	50.73	54.00	3.27	H	24.8
16584.500000	51.59	54.00	2.41	V	26.4
17704.500000	51.68	54.00	2.32	V	27.6

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

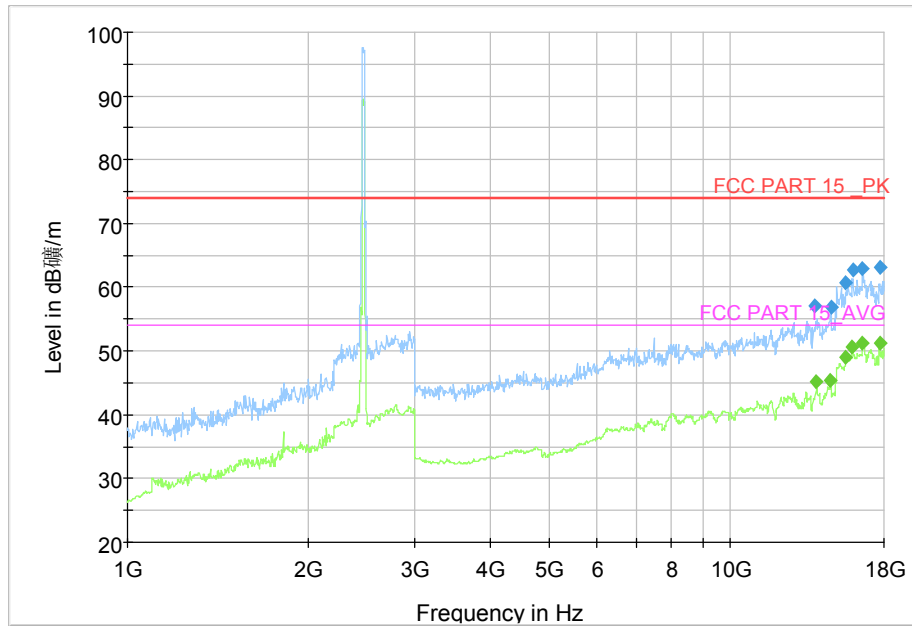


Fig.20 Radiated Spurious Emission (GFSK, Ch0, 1 GHz ~18 GHz)

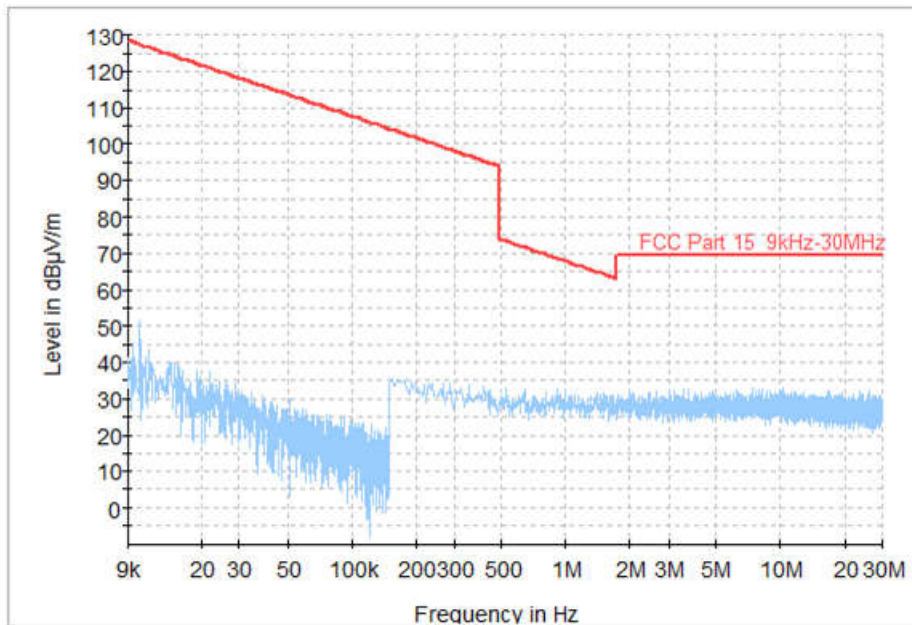


Fig.21 Radiated Spurious Emission (Ch19, 9 kHz-30 MHz)

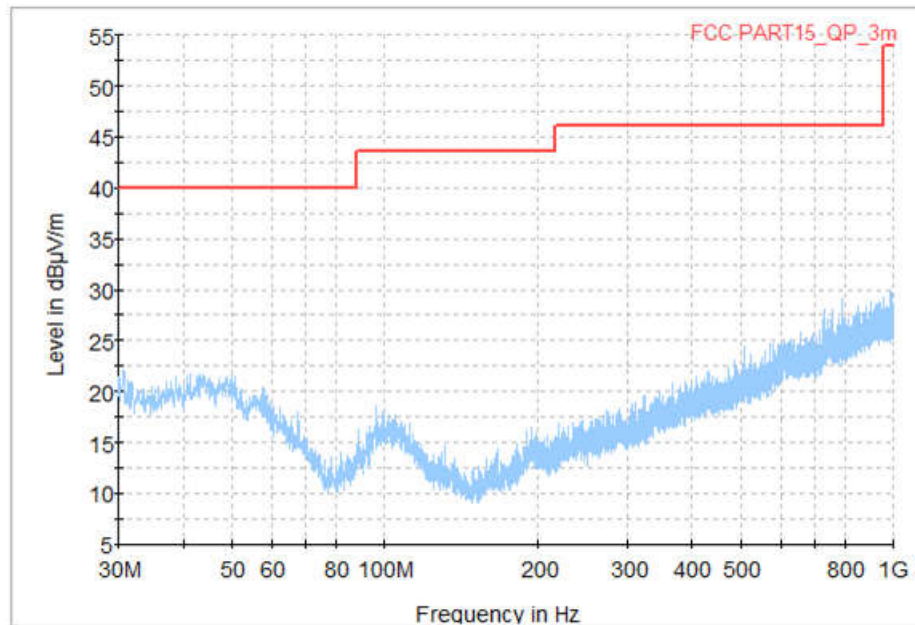


Fig.22 Radiated Spurious Emission (Ch19, 30 MHz-1 GHz)

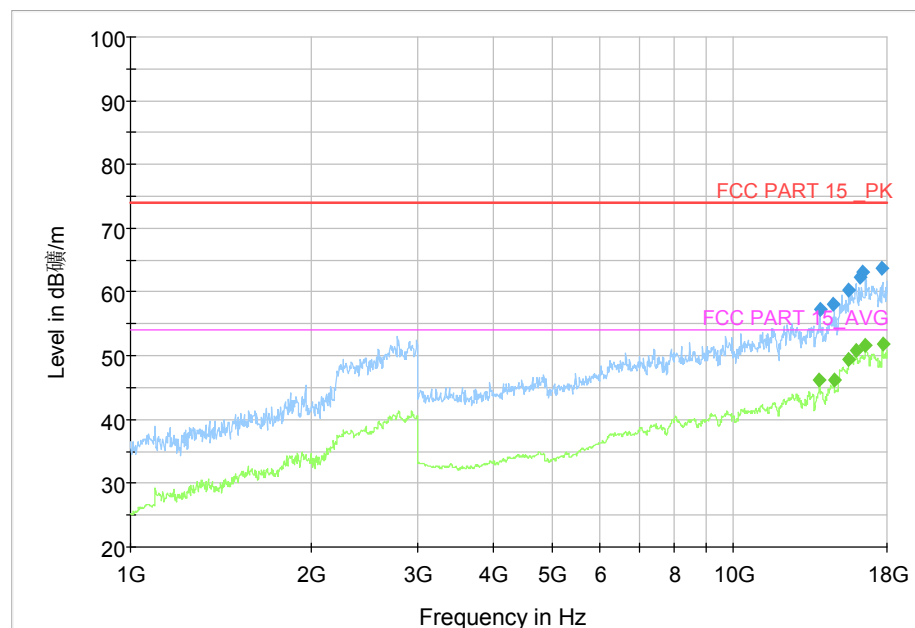


Fig.23 Radiated Spurious Emission (Ch19, 1 GHz- 18 GHz)

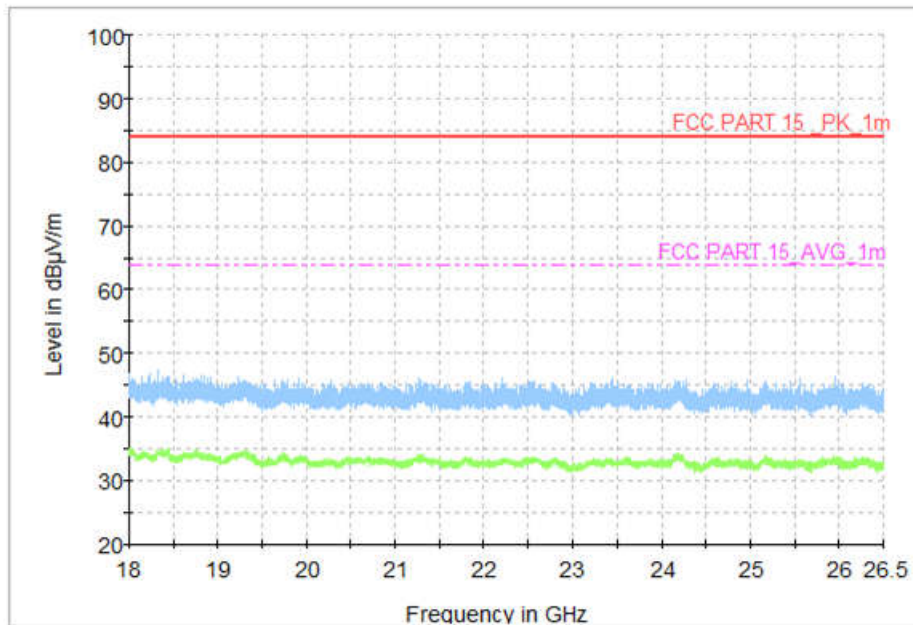


Fig.24 Radiated Spurious Emission (Ch19, 18 GHz-26.5 GHz)

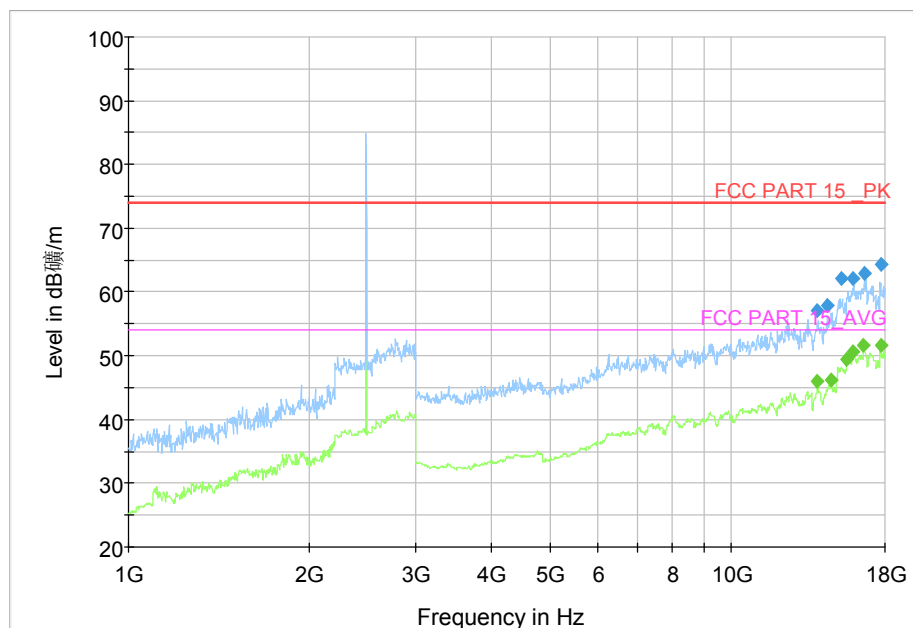


Fig.25 Radiated Spurious Emission (Ch39, 1 GHz-18 GHz)

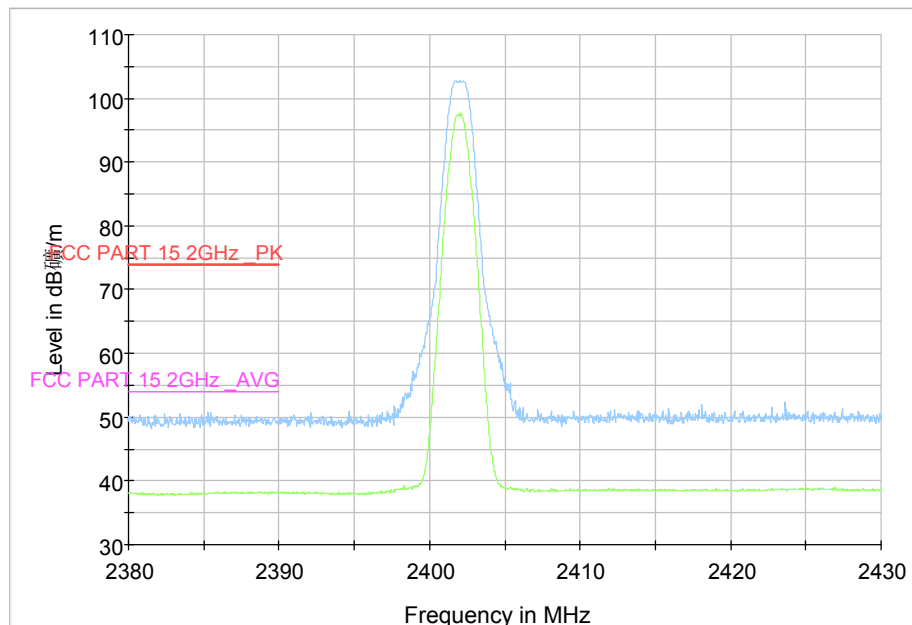


Fig.26 Radiated Band Edges (GFSK, Ch0, 2380GHz~2450GHz)

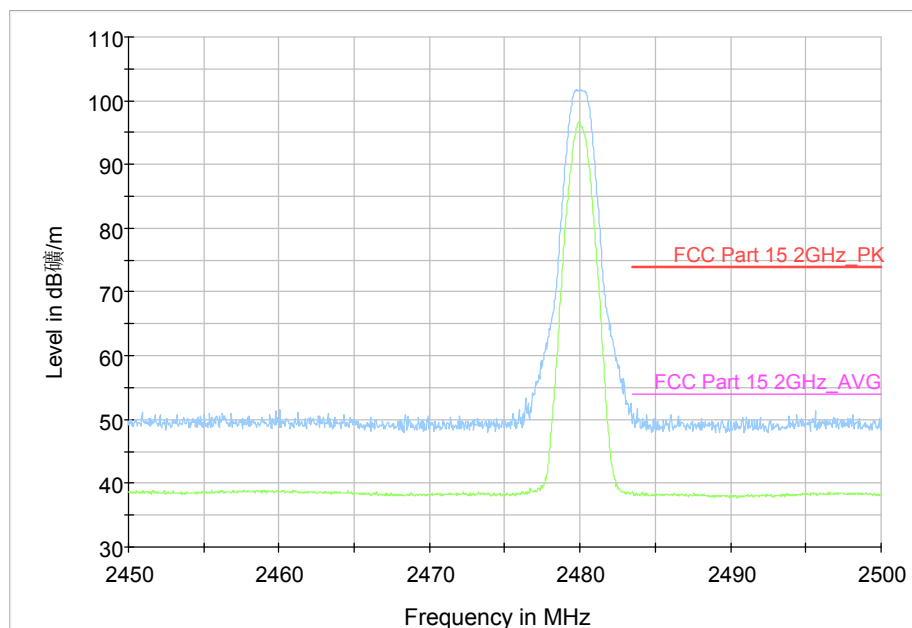


Fig.27 Radiated Band Edges (GFSK, Ch39, 2450GHz~2500GHz)

A.7 Occupied Bandwidth

Measurement Limit:

Standard	Limit (kHz)
RSS-Gen section 6.6	/

Measurement Result:

Mode	Frequency (MHz)	Test Results (kHz)		Conclusion
GFSK	2402(CH0)	Fig.28	1080.00	P
	2440(CH19)	Fig.29	1081.00	P
	2480(CH39)	Fig.30	1082.00	P

See below for test graphs.

Conclusion: PASS

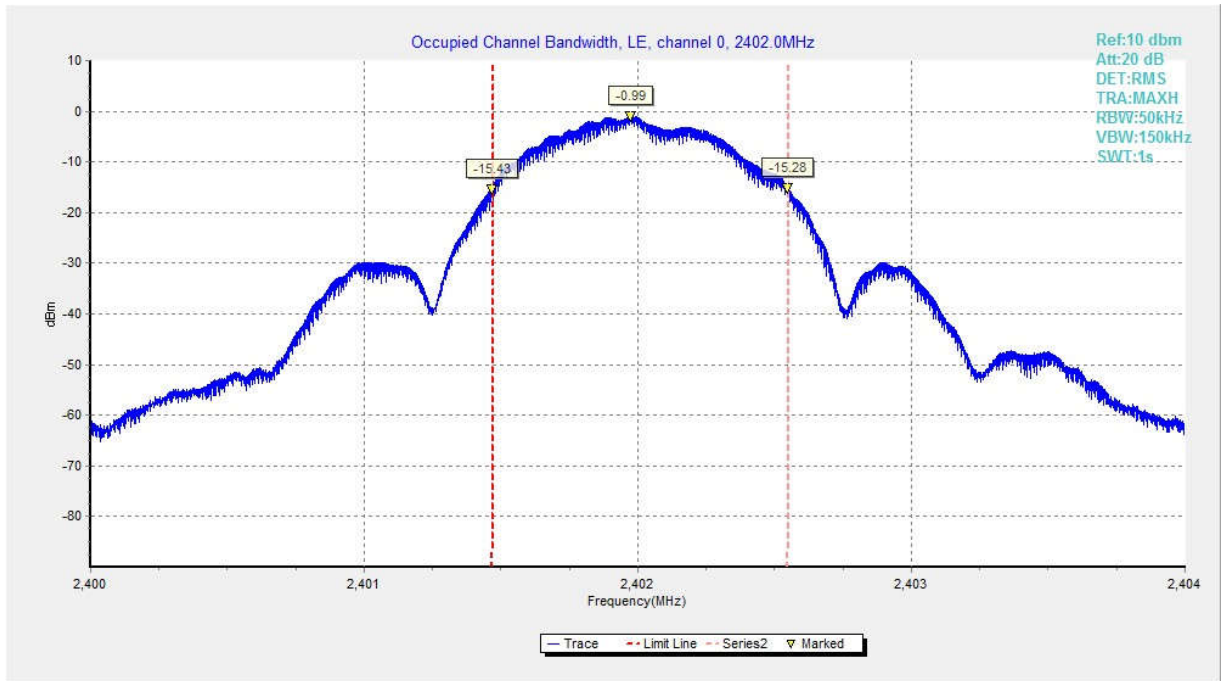


Fig.28 Occupied Bandwidth: GFSK, Channel 0

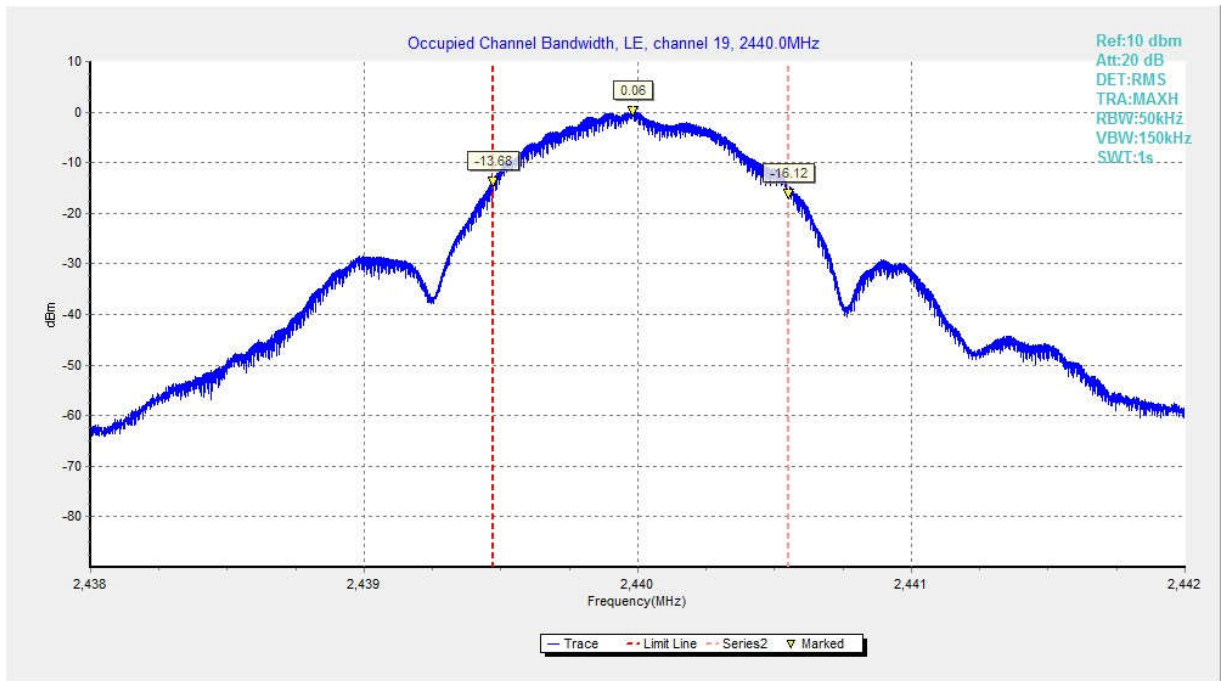


Fig.29 Occupied Bandwidth: GFSK, Channel 19

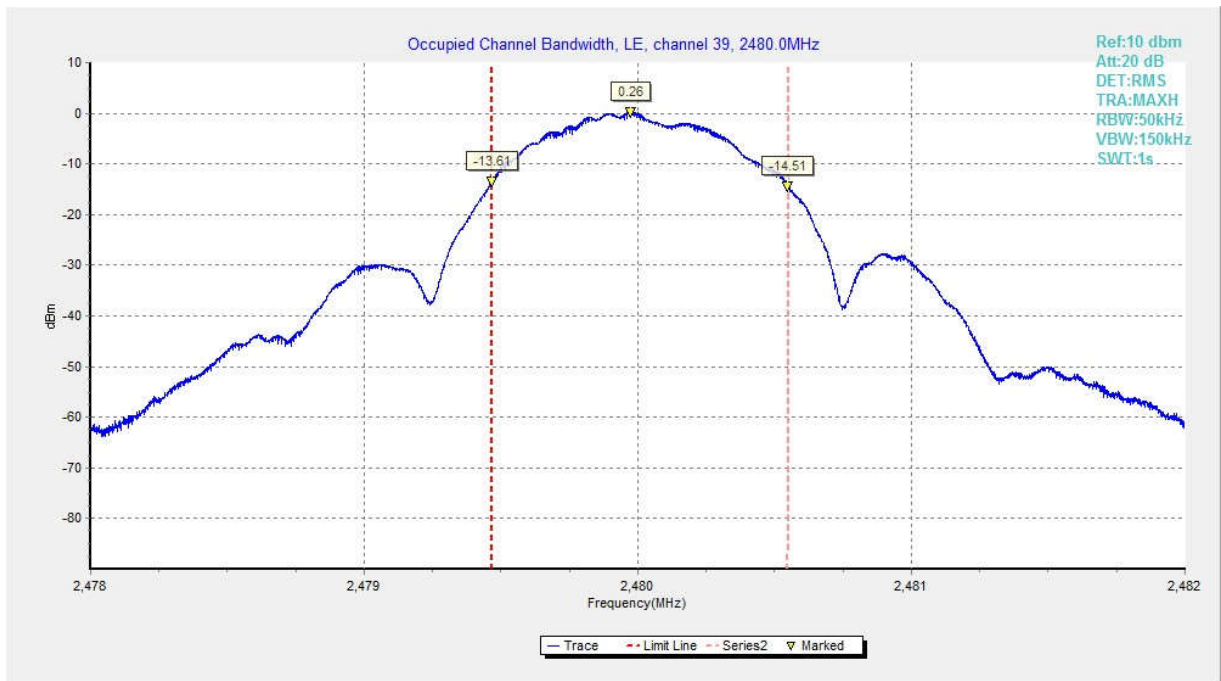


Fig.30 Occupied Bandwidth: GFSK, Channel 39

A.8 AC Powerline Conducted Emission

Test Condition:

Voltage (V)	Frequency (Hz)
120	60

Measurement Result and limit:

BLE (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Result (dB μ V)		Conclusion
		Traffic	Idle	
0.15 to 0.5	66 to 56	Fig.31	Fig.32	P
0.5 to 5	56			
5 to 30	60			

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

BLE (Average Limit)

Frequency range (MHz)	Average-peak Limit (dB μ V)	Result (dB μ V)		Conclusion
		Traffic	Idle	
0.15 to 0.5	56 to 46	Fig 31	Fig 32	P
0.5 to 5	46			
5 to 30	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

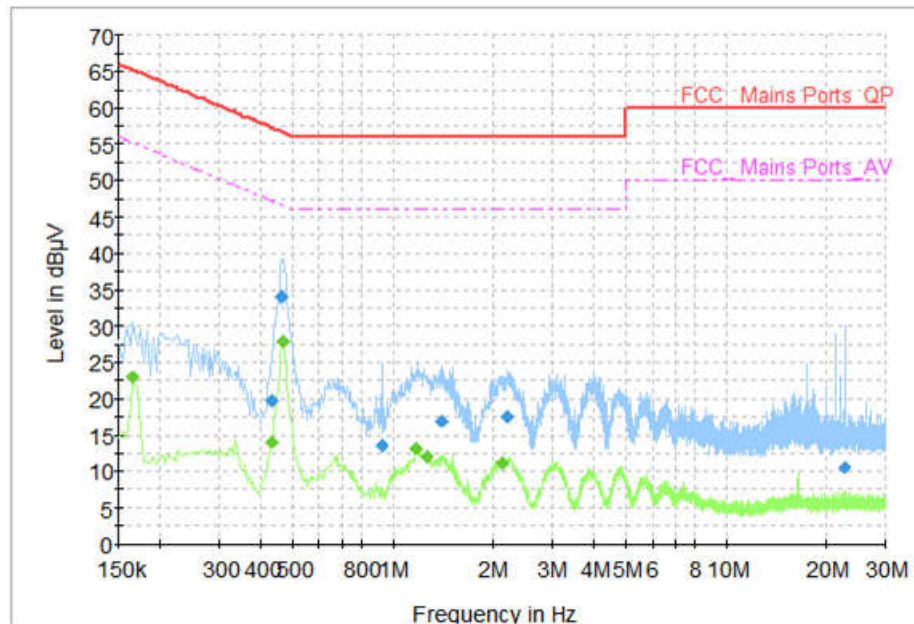


Fig.31 AC Powerline Conducted Emission (Traffic)

Measurement Results: Quasi Peak

Frequency (MHz)	Quasi Peak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.430000	19.70	57.25	37.56	N	ON	9.7
0.462000	33.97	56.66	22.69	N	ON	9.7
0.926000	13.53	56.00	42.47	L1	ON	9.7
1.402000	17.01	56.00	38.99	N	ON	9.7
2.190000	17.52	56.00	38.48	N	ON	9.7
22.502000	10.63	60.00	49.37	N	ON	10.3

Measurement Results : Average

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.166000	22.99	55.16	32.17	N	ON	9.6
0.430000	14.16	47.25	33.10	N	ON	9.7
0.466000	27.79	46.59	18.80	N	ON	9.7
1.170000	13.14	46.00	32.86	N	ON	9.7
1.258000	12.02	46.00	33.98	N	ON	9.7
2.122000	11.19	46.00	34.81	N	ON	9.7

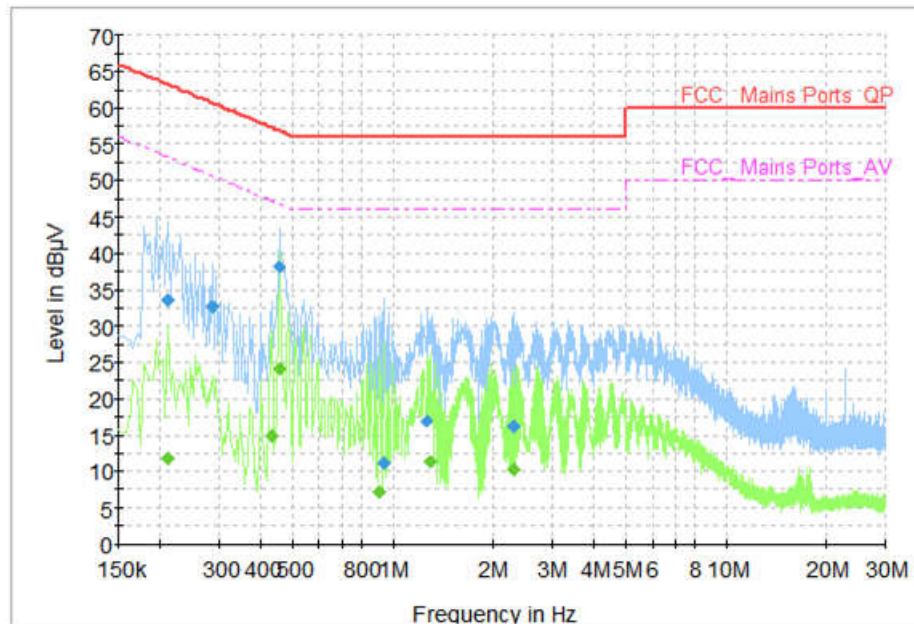


Fig.32 AC Power line Conducted Emission (Idle)

Measurement Results: Quasi Peak

Frequency (MHz)	Quasi Peak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.210000	33.44	63.21	29.77	N	ON	9.6
0.286000	32.69	60.64	27.95	N	ON	9.6
0.454000	38.06	56.80	18.74	N	ON	9.7
0.938000	11.04	56.00	44.96	N	ON	9.7
1.258000	17.00	56.00	39.00	N	ON	9.7
2.302000	16.18	56.00	39.82	N	ON	9.7

Measurement Results : Average

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.210000	11.89	53.21	41.31	N	ON	9.6
0.430000	14.84	47.25	32.41	N	ON	9.7
0.454000	24.10	46.80	22.71	N	ON	9.7
0.910000	7.14	46.00	38.86	N	ON	9.7
1.286000	11.29	46.00	34.71	N	ON	9.7
2.302000	10.28	46.00	35.72	N	ON	9.7

END OF REPORT