



FCC PART 15C TEST REPORT

BLUETOOTH LOW ENERGY (BLE) PART

No. I21Z60790-IOT02

for

Honor Device Co., Ltd.

Smart Phone

Model Name: NTH-NX9

FCC ID: 2AYGCNTH-NX9

with

Hardware Version: HN2NTHM

Software Version: 4.2.0.107 (C900E107R1P2)

Issued Date: 2021-8-16

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 CTTL.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

Test Laboratory:

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REPORT HISTORY

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I21Z60790-IOT02	Rev.0	1st edition	2021-8-16

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1. Test Laboratory

1.1. Introduction & Accreditation

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2017 accredited test laboratory under NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP) with lab code 600118-0, and is also an FCC accredited test laboratory (CN5017), and ISED accredited test laboratory (ISED#: 24849). The detail accreditation scope can be found on NVLAP website.

1.2. Testing Location

Conducted testing Location: CTTL(huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing,
P. R. China100191

Radiated testing Location: CTTL(Shouxiang)

Address: No. 51 Shouxiang Science Building, Xueyuan Road,
Haidian District, Beijing, P. R. China100191

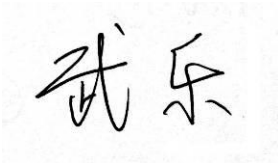
1.3. Testing Environment

Normal Temperature: 15-35℃
Relative Humidity: 20-75%

1.4. Project data

Testing Start Date: 2021-5-10
Testing End Date: 2021-8-16

1.5. Signature



Wu Le
(Prepared this test report)



Sun Zhenyu
(Reviewed this test report)



Zhu Liang
(Approved this test report)

2. Client Information

2.1. Applicant Information

Company Name: Honor Device Co., Ltd.
Address /Post: Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen,
Guangdong, China
City: Shenzhen
Postal Code: /
Country: China
Telephone: 0755-61886688
Fax: /

2.2. Manufacturer Information

Company Name: Honor Device Co., Ltd.
Address /Post: Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen,
Guangdong, China
City: Shenzhen
Postal Code: /
Country: China
Telephone: 0755-61886688
Fax: /

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

3.1. About EUT

Description	Smart Phone
Model Name	NTH-NX9
FCC ID	2AYGCNTH-NX9
Frequency Band	ISM 2400MHz~2483.5MHz
Type of Modulation(LE mode)	GFSK (Bluetooth Low Energy)
Number of Channels(LE mode)	40
Power Supply	3.87V DC by Battery
Core0 Antenna gain	0.20dBi
Core1 Antenna gain	-2.50dBi

3.2. Internal Identification of EUT

EUT ID*	SN or IMEI	HW Version	SW Version
EUT1	861997050026090/ 861997050029193	HN2NTHM	4.2.0.107 (C900E107R1P2)
EUT2	861997050038418/ 861997050042501	HN2NTHM	4.2.0.107 (C900E107R1P2)
EUT3	861997050038350/ 861997050042444	HN2NTHM	4.2.0.107 (C900E107R1P2)

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

3.3. Internal Identification of AE

AE ID*	Description	SN	Note
AE1	Battery	/	EUT1
AE9	Battery	/	EUT2
AE2	Charger	/	NEW
AE3	Charger	/	OLD
AE4	USB Cable	/	LUXSHARE
AE5	USB Cable	/	Mingji
AE6	Headset	/	Foster
AE7	Headset	/	Lianchuang
AE8	Headset	/	Quancheng

AE1

Model	HB476489EFW
Manufacturer	Sunwoda
Capacitance	4200mAh
Nominal voltage	3.87V

AE9

Model	HB476489EFW
Manufacturer	SCUD
Capacitance	4200mAh
Nominal voltage	3.87V

AE2

Model	HW-110600X00
Manufacturer	Honor Device Co., Ltd
OUTPUT	5V DC 2A OR 10V DC 4A OR 11V DC 6A MAX
SN	YF91YEM3500036
Note	NEW

AE3

Model	HW-110600X00
Manufacturer	Honor Device Co., Ltd
OUTPUT	5V DC 2A OR 10V DC 4A OR 11V DC 6A MAX
SN	YF91LBLBL00158
Note	OLD

AE4

Model	L99UC139-CS-H
Manufacturer	LUXSHARE
Length	/

AE5

Model	213-01011-0
Manufacturer	Mingji
Length	/

AE6

Model	640958
Manufacturer	Foster
Length	/

AE7

Model	MEND1632B729012
Manufacturer	Lianchuang
Length	/

AE8

Model	1331-3301-6001-TC-347
Manufacturer	Quancheng

Length /

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

3.4. Normal Accessory setting

Fully charged battery is used during the test.

3.5. General Description

The Equipment Under Test (EUT) is a model of Smart Phone with integrated antenna. It consists of normal options: lithium battery, charger. Manual and specifications of the EUT were provided to fulfill the test. Samples undergoing test were selected by the Client.

4. Reference Documents

4.1. Documents supplied by applicant

EUT parameters, referring to Annex A for detailed information, is supplied by the client 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;	2019
ANSI C63.10	15.247 Operation within the bands 902–928MHz, 2400–2483.5 MHz, and 5725–5850 MHz.	
	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices	June,2013

5. Test Results

5.1. Summary of EUT Mode

Four modes are provided:

Mode	Conditions
Mode A	Core0 1Mbps
Mode B	Core0 2Mbps
Mode C	Core1 1Mbps
Mode D	Core1 2Mbps

*For the test results, the EUT had been tested all conditions. But only the worst case was shown in test report except the " Peak Output Power " test was shown all conditions.

5.2. Summary of Test Results

Abbreviations used in this clause:

P Pass, The EUT complies with the essential requirements in the standard.

F Fail, The EUT does not comply with the essential requirements in the standard

NA Not Applicable, The test was not applicable

NP Not Performed, The test was not performed by CTTL

SUMMARY OF MEASUREMENT RESULTS	Sub-clause	Verdict
Peak Output Power	15.247 (b)(1)	P
Frequency Band Edges- Conducted	15.247 (d)	P
Frequency Band Edges- Radiated	15.247, 15.205, 15.209	P
Transmitter Spurious Emission - Conducted	15.247 (d)	P
Transmitter Spurious Emission - Radiated	15.247, 15.205, 15.209	P
6dB Bandwidth	15.247 (a)(2)	P
Maximum Power Spectral Density Level	15.247(e)	P
AC Powerline Conducted Emission	15.107, 15.207	P

Please refer to **ANNEX A** for detail.

The measurement is made according to ANSI C63.10.

5.3. Statements

CTTL has evaluated the test cases requested by the applicant /manufacturer 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

6. Test Facilities Utilized

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Vector Signal Analyzer	FSQ26	100024	R&S	1 year	2022-03-25
2	LISN	ENV216	101459	R&S	1 year	2022-03-22
3	Test Receiver	ESCI	100766	R&S	1 year	2022-03-09
4	Shielding Room	S81	/	ETS-Lindgren	/	/

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Antenna	3117	139065	ETS	1 year	2021-09-22
2	Antenna	VULB 9163	9163-482	SCHWARZBECK	1 year	2021-11-04
3	Test Receiver	ESU26	100376	R&S	1 year	2021-09-04
4	Test Receiver	FSV40	101047	R&S	1 year	2022-06-02
5	Universal Radio Communication Tester	CMW500	159408	R&S	1 year	2022-03-08
6	Test Receiver	FSV30	101525	R&S	1 year	2022-02-20
7	Antenna	LB-7180-NF	J203001300 005	A-INFO	1 year	2022-02-28
8	Antenna	HFH2-Z2	829324	R&S	1 year	2021-12-10
9	Antenna	LB-180400- 25-C-KF	2110084000 006	A-INFO	1 year	2022-02-28
10	Anechoic Chamber	FACT-3	Ct000332-1 074	ETS	1 year	2022-01-21

7. Measurement Uncertainty

7.1. Peak Output Power

Measurement Uncertainty:

Measurement Uncertainty (k=2)	0.66dB
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7.2. Frequency Band Edges - Conducted

Measurement Uncertainty:

Measurement Uncertainty (k=2)	0.66dB
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7.3. Frequency Band Edges - Radiated

Measurement Uncertainty:

Measurement Uncertainty (k=2)	/
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7.4. Transmitter Spurious Emission - Conducted

Measurement Uncertainty:

Frequency Range	Uncertainty (k=2)
30 MHz ~ 8 GHz	1.22dB
8 GHz ~ 12.75 GHz	1.51dB
12.7GHz ~ 26 GHz	1.51dB

7.5. Transmitter Spurious Emission - Radiated

Measurement Uncertainty:

Frequency Range	Uncertainty(dBm) (k=2)
9kHz-30MHz	/
$30\text{MHz} \leq f \leq 1\text{GHz}$	5.84
$1\text{GHz} \leq f \leq 18\text{GHz}$	5.82
$18\text{GHz} \leq f \leq 40\text{GHz}$	3.78

7.6. 6dB Bandwidth

Measurement Uncertainty:

Measurement Uncertainty (k=2)	61.936Hz
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7.7. Maximum Power Spectral Density Level

Measurement Uncertainty:

Measurement Uncertainty (k=2)	0.66dB
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7.8. AC Powerline Conducted Emission

Measurement Uncertainty:

Measurement Uncertainty (k=2)	3.1dB
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ANNEX A: EUT parameters

Disclaimer: The antenna gain provided by the client may affect the validity of the measurement results in this report, and the client shall bear the impact and consequences arising therefrom.

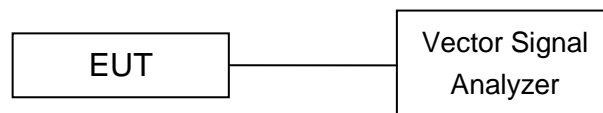
ANNEX B: Detailed Test Results

B.1. Measurement Method

B.1.1. Conducted Measurements

The measurement is made according to ANSI C63.10.

- 1). Connect the EUT to the test system correctly.
- 2). Set the EUT to the required work mode (Transmitter, receiver or transmitter & receiver).
- 3). Set the EUT to the required channel.
- 4). Set the EUT hopping mode (hopping or hopping off).
- 5). Set the spectrum analyzer to start measurement.
- 6). Record the values. Vector Signal Analyzer



B.1.2. Radiated Emission Measurements

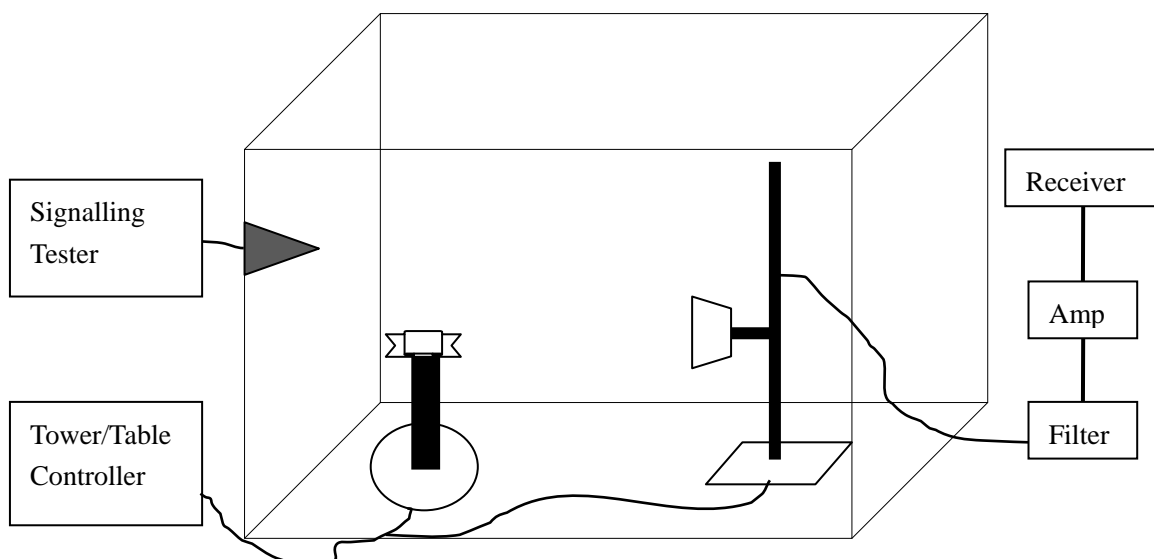
The measurement is made according to ANSI C63.10.

The radiated emission test is performed in semi-anechoic chamber. The distance from the EUT to the reference point of measurement antenna is 3m. The test is carried out on both vertical and horizontal polarization and only maximization result of both polarizations is kept. During the test, the turntable is rotated 360° and the measurement antenna is moved from 1m to 4m to get the maximization result.

In the case of radiated emission, the used settings are as follows,

Sweep frequency from 30 MHz to 1GHz, RBW = 100 kHz, VBW = 300 kHz;

Sweep frequency from 1 GHz to 26GHz, RBW = 1MHz, VBW = 1MHz;



B.2. Peak Output Power

B.2.1. Peak Output Power

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

- Set the RBW = 1 MHz.
- Set VBW = 3 MHz.
- Set span = 3 MHz.
- Sweep time = auto couple.
- Detector = peak.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use peak marker function to determine the peak amplitude level.

Measurement Limit:

Standard	Limit (dBm)
FCC Part 15.247(b)(3)	< 30

Measurement Results:

For GFSK

ANT No.	Sample Rate	Channel No.	Frequency (MHz)	Peak Conducted Output Power (dBm)	Conclusion
Core0	1Mbps	0	2402	4.08	P
		19	2440	5.62	P
		39	2480	4.38	P
	2Mbps	0	2402	4.19	P
		19	2440	5.66	P
		39	2480	4.42	P
Core1	1Mbps	0	2402	5.60	P
		19	2440	6.30	P
		39	2480	4.23	P
	2Mbps	0	2402	5.72	P
		19	2440	6.43	P
		39	2480	4.46	P

Conclusion: PASS

B.2.2. E.I.R.P.

The radiated E.I.R.P. is listed below:

Core0 Antenna gain = 0.20 Bi

Core1 Antenna gain = -2.50dBi

For GFSK

ANT No.	Sample Rate	Channel No.	Frequency (MHz)	E.I.R.P. (dBm)	Conclusion
Core0	1Mbps	0	2402	4.28	P
		19	2440	5.82	P
		39	2480	4.58	P
	2Mbps	0	2402	1.69	P
		19	2440	3.16	P
		39	2480	1.92	P
Core1	1Mbps	0	2402	5.80	P
		19	2440	6.50	P
		39	2480	4.43	P
	2Mbps	0	2402	3.22	P
		19	2440	3.93	P
		39	2480	1.96	P

Note: E.I.R.P. are calculated with the antenna gain.

Conclusion: PASS

B.3. Frequency Band Edges - Conducted

Method of Measurement: See ANSI C63.10-clause 6.10.4

Connect the spectrum analyzer to the EUT using an appropriate RF cable connected to the EUT output. Configure the spectrum analyzer settings as described below.

- a) Set Span = 8MHz
- b) Sweep Time: Auto
- c) Set the RBW= 100 kHz
- c) Set the VBW= 300 kHz
- d) Detector: Peak
- e) Trace: Max hold

Observe the stored trace and measure the amplitude delta between the peak of the fundamental and the peak of the band-edge emission. This is not an absolute field strength measurement; it is only a relative measurement to determine the amount by which the emission drops at the band edge relative to the highest fundamental emission level.

Measurement Limit:

Standard	Limit (dBc)
FCC 47 CFR Part 15.247 (d)	< -20

Measurement Result:

EUT3 Core1 2Mbps

Channel No.	Frequency (MHz)	Hopping	Band Edge Power (dBc)		Conclusion
0	2402	Hopping OFF	Fig.1	-45.04	P
39	2480	Hopping OFF	Fig.2	-60.74	P

Conclusion: PASS

Test graphs as below

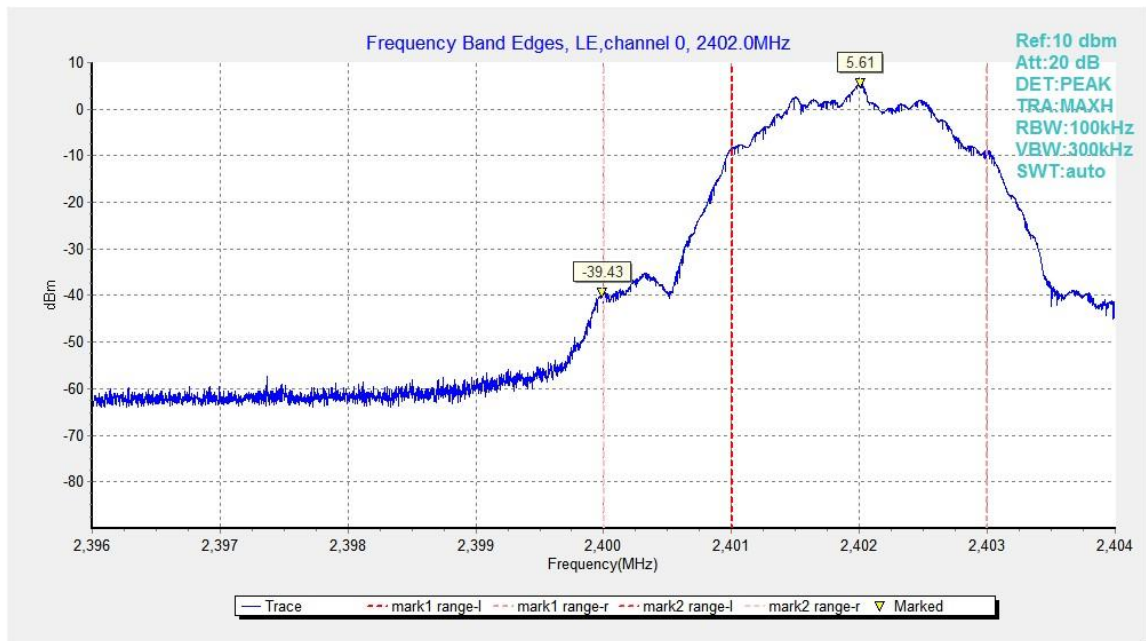


Fig.1. Frequency Band Edges: GFSK, 2402 MHz, Hopping Off

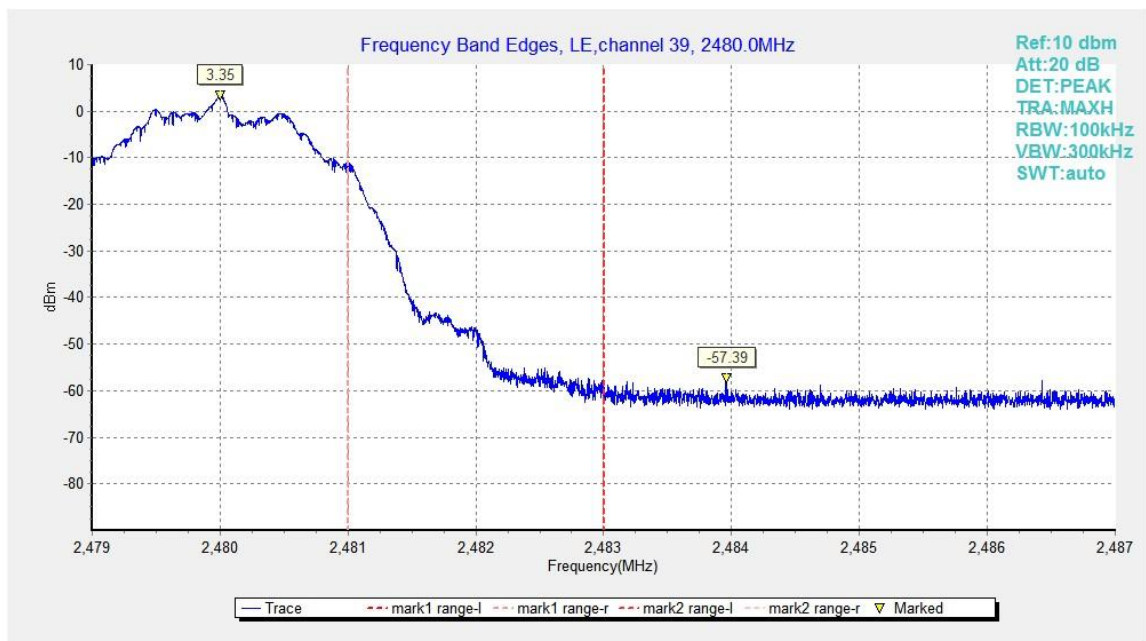


Fig.2. Frequency Band Edges: GFSK, 2480 MHz, Hopping Off

B.4. Frequency Band Edges –Radiated

Method of Measurement: See ANSI C63.10-2013-clause 6.4 & 6.5 & 6.6

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247, 15.205, 15.209	20dB below peak output power

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 (MHz)	Field strength(μ V/m)	Measurement distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30

Frequency of emission (MHz)	Field strength(μ V/m)	Field strength(dBuV/m)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Set up:

Tabletop devices shall be placed on a nonconducting platform with nominal top surface dimensions 1 m by 1.5 m and the table height shall be 1.5 m.

The EUT and transmitting antenna shall be centered on the turntable.

Test Condition

The EUT shall be tested 1 near top, 1 near middle, and 1 near bottom. Set the unlicensed wireless device to operate in continuous transmit mode. For unlicensed wireless devices unable to be configured for 100% duty cycle even in test mode, configure the system for the maximum duty cycle supported.

When required for unlicensed wireless devices, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage.

Exploratory radiated emissions measurements

Exploratory radiated measurements shall be performed at the measurement distance or at a closer distance than that specified for compliance to determine the emission characteristics of the EUT and, if applicable, the EUT configuration that produces the maximum level of emissions. The frequencies of maximum emission may be determined by manually positioning the antenna close to the EUT, and then moving the antenna over all sides of the EUT while observing a spectral

display. It is advantageous to have prior knowledge of the frequencies of emissions, although this may be determined from such a near-field scan. The near-field scan shall only be used to determine the frequency but not the amplitude of the emissions. Where exploratory measurements are not adequate to determine the worst-case operating modes and are used only to identify the frequencies of the highest emissions, additional preliminary tests can be required.

For emissions from the EUT, the maximum level shall be determined by rotating the EUT and its antenna through 0° to 360° . For each mode of operation required to be tested, the frequency spectrum (based on findings from exploratory measurements) shall be monitored.

Broadband antennas and a spectrum analyzer or a radio-noise meter with a panoramic display are often useful in this type of test. If either antenna height or EUT azimuth are not fully measured during exploratory testing, then complete testing can be required at the OATS or semi-anechoic chamber when the final full spectrum testing is performed.

Final radiated emissions measurements

The final measurements are using the orientation and equipment arrangement of the EUT based on the measurement results found during the preliminary (exploratory) measurements, the EUT arrangement, appropriate modulation, and modes of operation that produce the emissions that have the highest amplitude relative to the limit shall be selected for the final measurement.

For emissions from the EUT, the maximum level shall be determined by rotating the EUT and its antenna through 0° to 360° . Final measurements for the EUT require a measurement antenna height scan of 1 m to 4 m and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations. For each mode of operation required to be tested, the frequency spectrum (based on findings from exploratory measurements) shall be monitored.

For each mode selected, record the frequency and amplitude of the highest fundamental emission (if applicable), as well as the frequency and amplitude of the six highest spurious emissions relative to the limit. Emissions more than 20 dB below the limit do not need to be reported.

This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The receiver references:

Frequency of emission (MHz)	RBW/VBW	Sweep Time(s)
30-1000	100KHz/300KHz	5
1000-4000	1MHz/3MHz	15
4000-18000	1MHz/3MHz	40
18000-26500	1MHz/3MHz	20

EUT ID: EUT1 & EUT2

Measurement Results:

Mode	ANT NO.	Channel	Frequency Range	Conclusion
GFSK 1Mbps	Core 0	0	2.31GHz ~2.45GHz	P
	Core 1	0	2.31GHz ~2.45GHz	P
	Core 0	39	2.45GHz ~2.5GHz	P
	Core 1	39	2.45GHz ~2.5GHz	P
GFSK 2Mbps	Core 0	0	2.31GHz ~2.45GHz	P
	Core 1	0	2.31GHz ~2.45GHz	P
	Core 0	39	2.45GHz ~2.5GHz	P
	Core 1	39	2.45GHz ~2.5GHz	P

Note: All combinations were tested, and only the worst results are shown in this report.

EUT 1, Core 0, 1Mbps

Mode	Channel	Frequency Range	Test Results	Conclusion
GFSK	0	2.31GHz ~2.45GHz	Fig.3	P
	39	2.45GHz ~2.5GHz	Fig.4	P

Conclusion: PASS

Test graphs as below

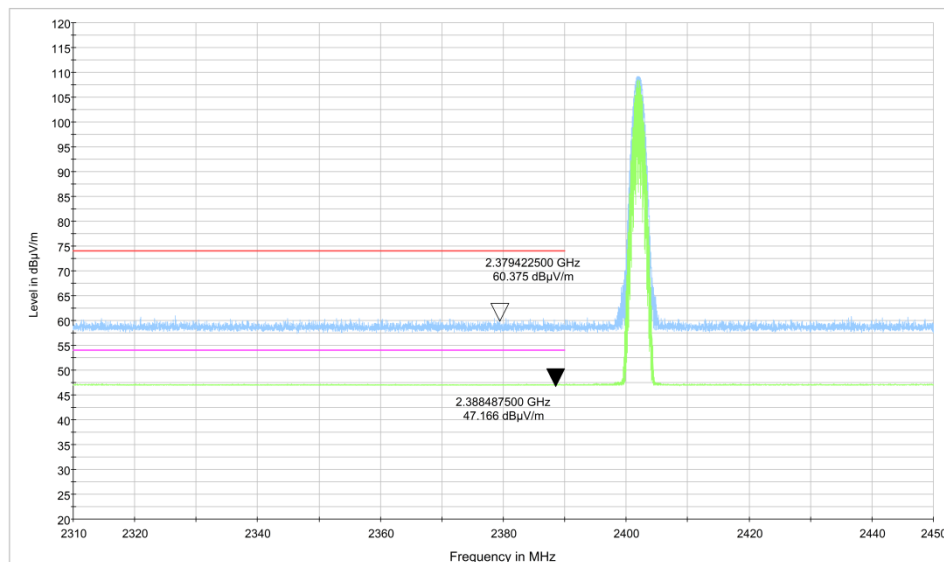


Fig.3. Frequency Band Edges: GFSK, 2402 MHz, 2.31 GHz – 2.45GHz

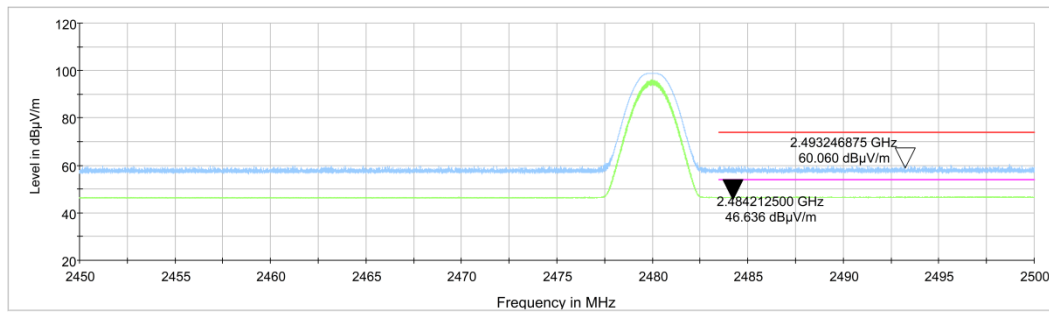


Fig.4. Frequency Band Edges: GFSK, 2480 MHz, 2.45 GHz - 2.50GHz

B.5. Transmitter Spurious Emission - Conducted

Method of Measurement: See ANSI C63.10-clause 11.11.2 and clause 11.11.3

Measurement Procedure – Reference Level

1. Set the RBW = 100 kHz.
2. Set the VBW = 300 kHz.
3. Set the span to ≥ 1.5 times the DTS bandwidth.
4. Detector = peak.
5. Sweep time = auto couple.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.
8. Use the peak marker function to determine the maximum PSD level. Next, determine the power in 100 kHz band segments outside of the authorized frequency band using the following measurement:

Measurement Procedure - Unwanted Emissions

1. Set RBW = 100 kHz.
 2. Set VBW = 300 kHz.
 3. Set span to encompass the spectrum to be examined.
 4. Detector = peak.
 5. Trace Mode = max hold.
 6. Sweep = auto couple.
 7. Allow the trace to stabilize (this may take some time, depending on the extent of the span).
- Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified above.

Measurement Limit:

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

Measurement Results:

EUT3 Core1 2Mbps

Channel No.	Frequency (MHz)	Frequency Range	Test Results	Conclusion
0	2402	Center Frequency	Fig.5	P
		30 MHz ~ 1 GHz	Fig.6	P
		1 GHz ~ 3 GHz	Fig.7	P
		3 GHz ~ 10 GHz	Fig.8	P
		10GHz ~ 26 GHz	Fig.9	P
19	2440	Center Frequency	Fig.10	P
		30 MHz ~ 1 GHz	Fig.11	P
		1 GHz ~ 3 GHz	Fig.12	P
		3 GHz ~ 10 GHz	Fig.13	P
		10GHz ~ 26 GHz	Fig.14	P
39	2480	Center Frequency	Fig.15	P
		30 MHz ~ 1 GHz	Fig.16	P
		1 GHz ~ 3GHz	Fig.17	P
		3 GHz ~ 10 GHz	Fig.18	P
		10 GHz ~ 26 GHz	Fig.19	P

Conclusion: PASS

Test graphs as below

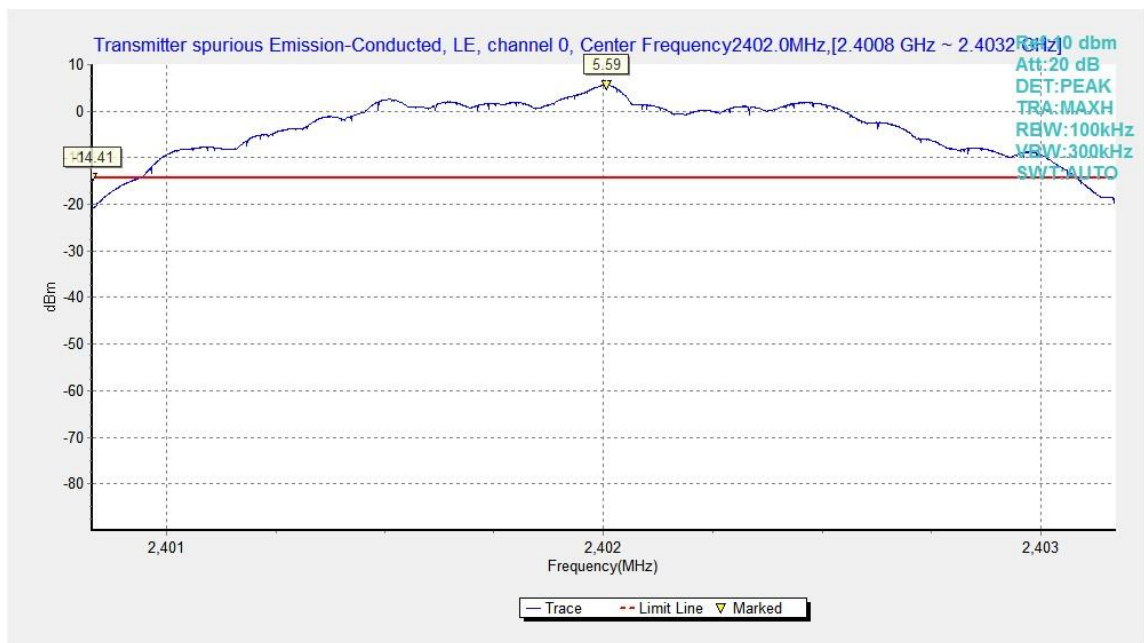


Fig.5. Transmitter Spurious Emission - Conducted: GFSK, 2402MHz

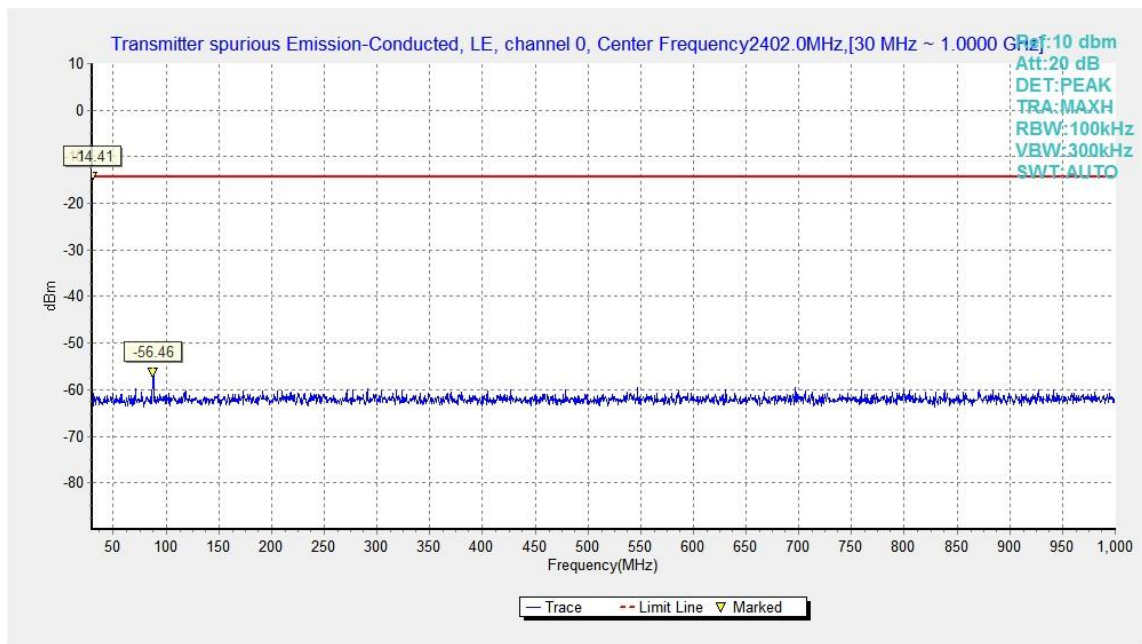


Fig.6. Transmitter Spurious Emission - Conducted: GFSK, 2402 MHz, 30MHz - 1GHz

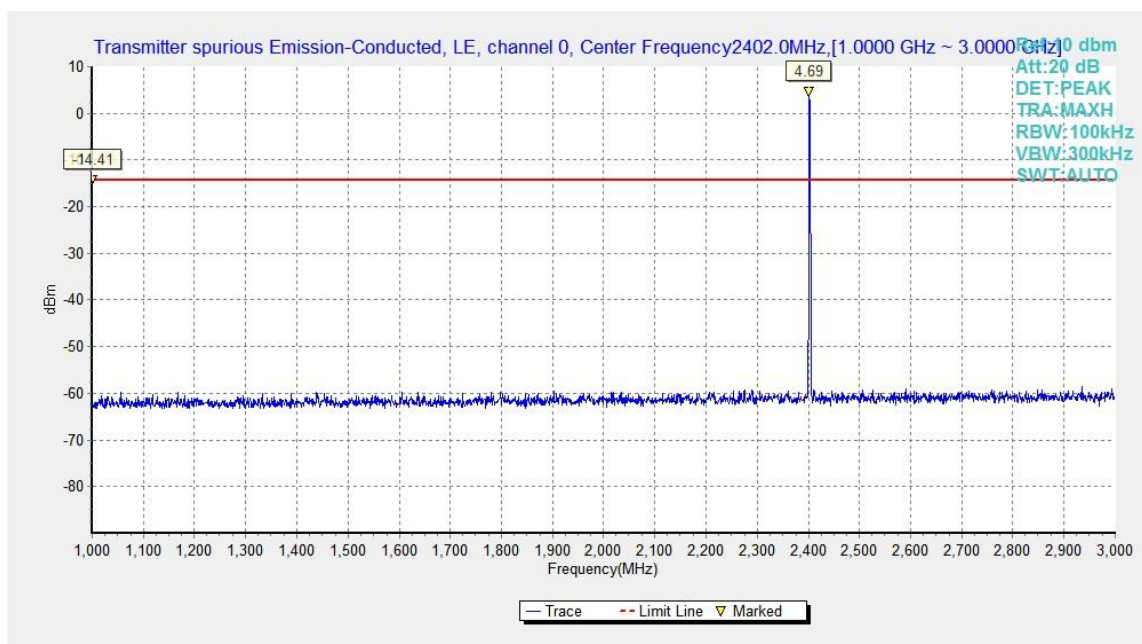


Fig.7. Transmitter Spurious Emission - Conducted: GFSK, 2402 MHz, 1GHz - 3GHz

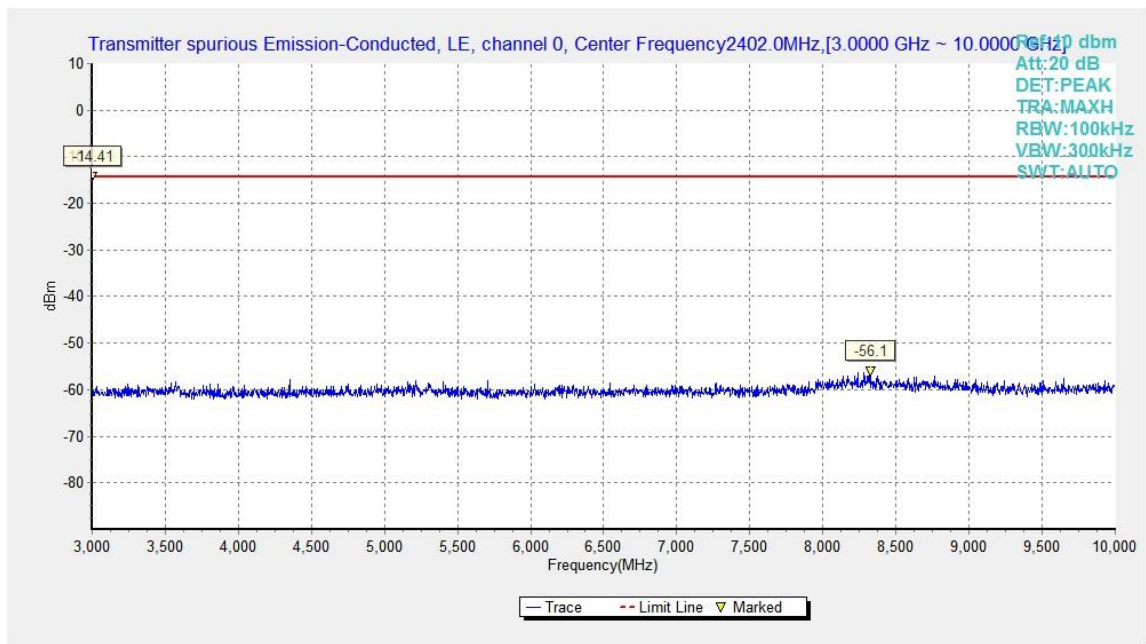


Fig.8. Transmitter Spurious Emission - Conducted: GFSK, 2402 MHz, 3GHz - 10GHz

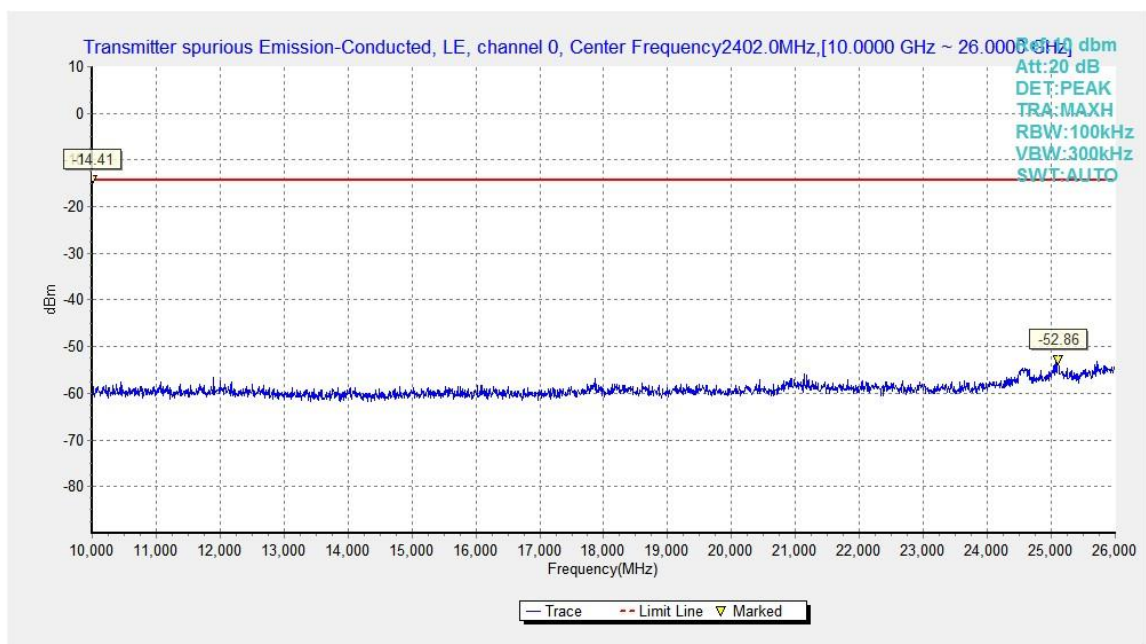


Fig.9. Transmitter Spurious Emission - Conducted: GFSK, 2402 MHz, 10GHz - 26GHz

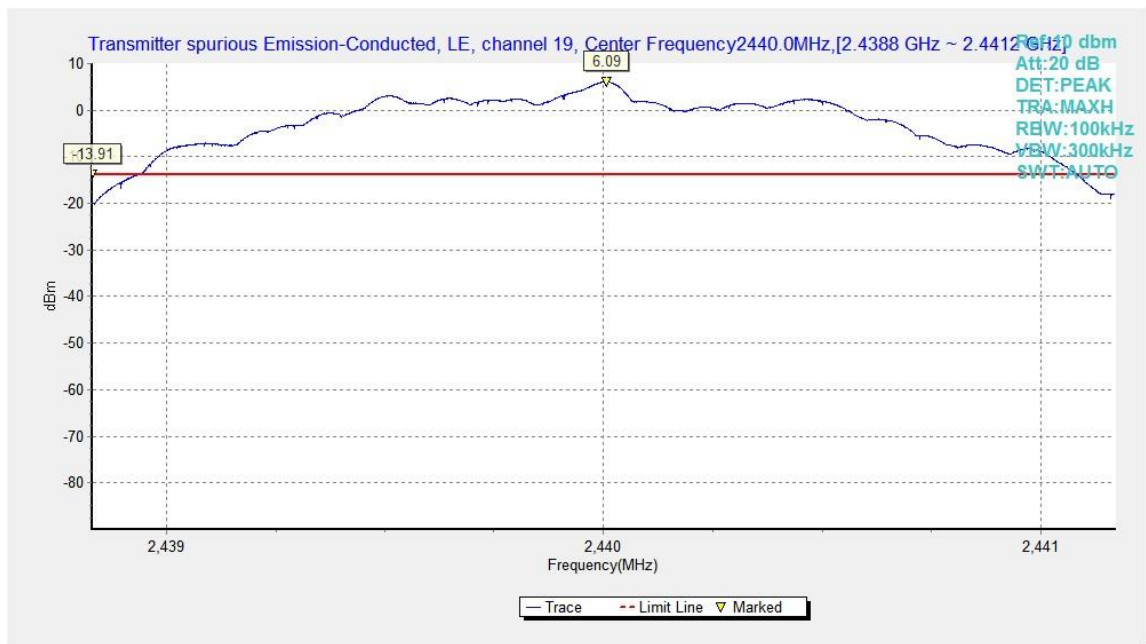


Fig.10. Transmitter Spurious Emission - Conducted: GFSK, 2440MHz

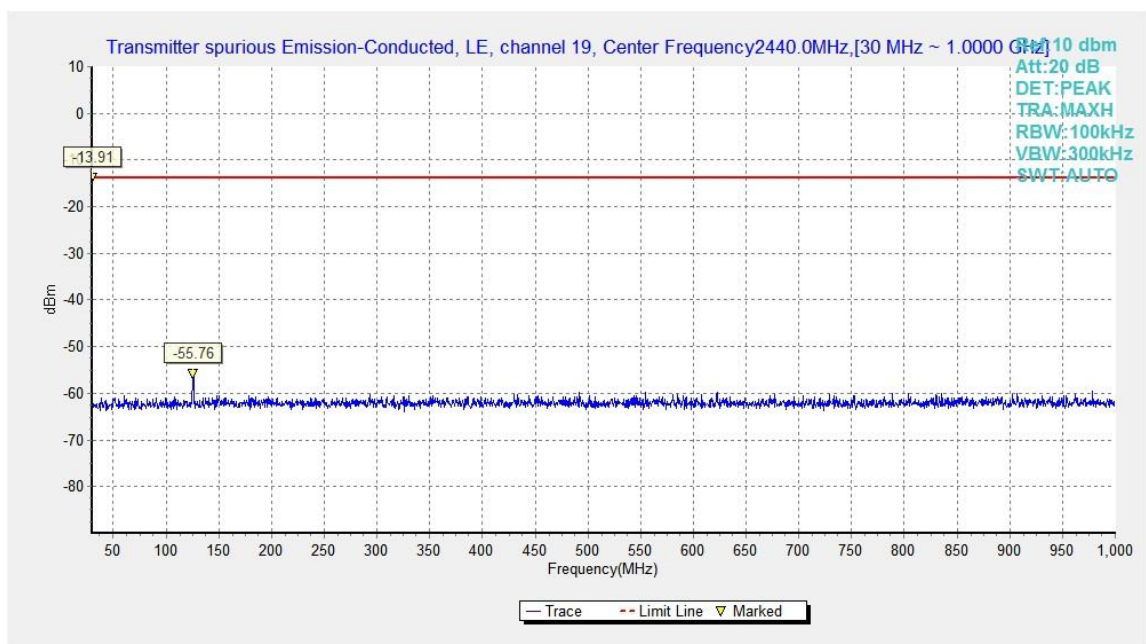


Fig.11. Transmitter Spurious Emission - Conducted: GFSK, 2440 MHz, 30MHz - 1GHz

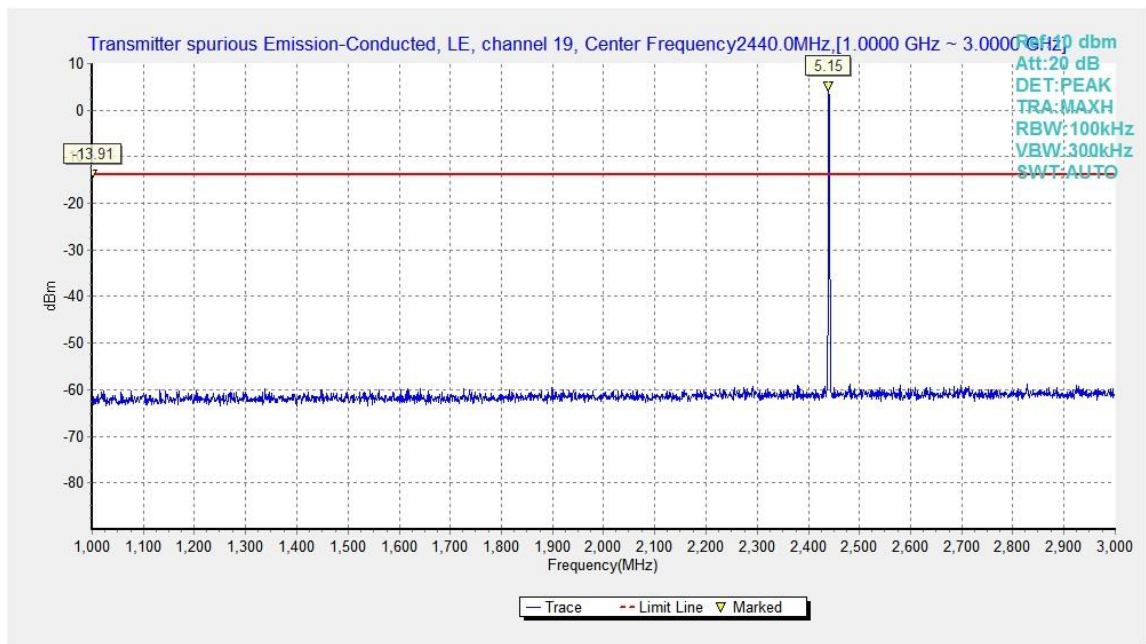


Fig.12. Transmitter Spurious Emission - Conducted: GFSK, 2440 MHz, 1GHz – 3GHz

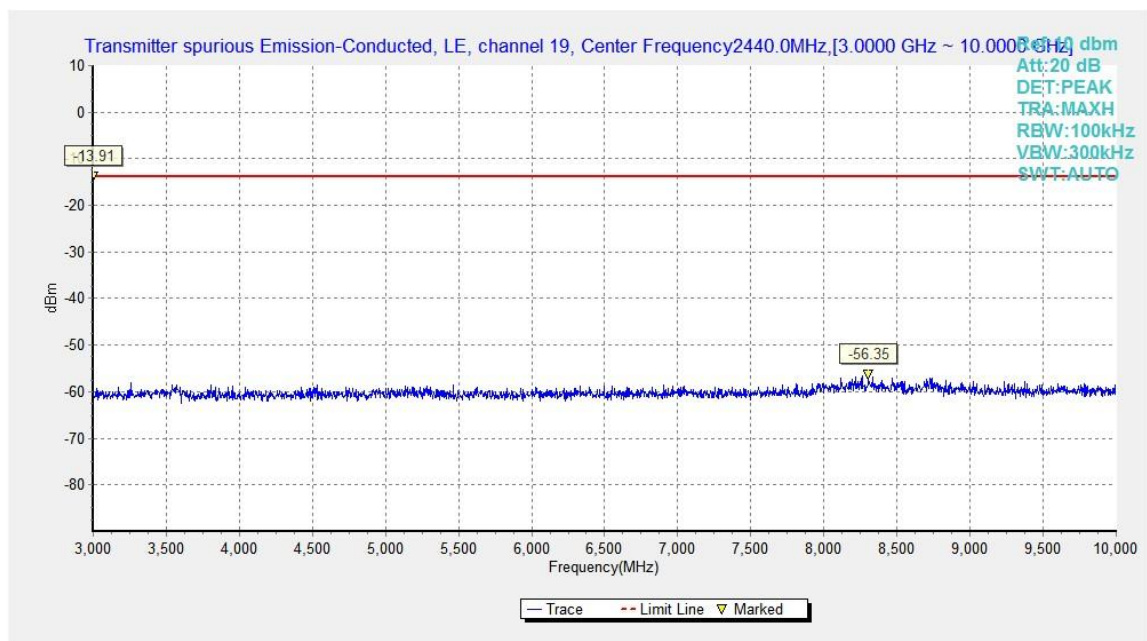


Fig.13. Transmitter Spurious Emission - Conducted: GFSK, 2440 MHz, 3GHz – 10GHz

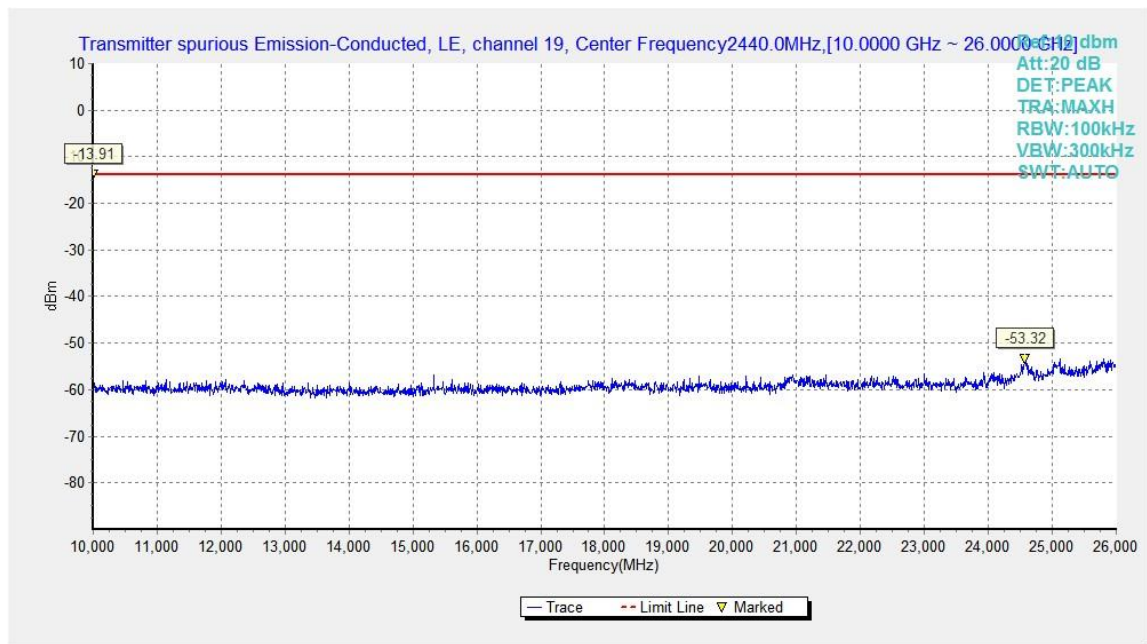


Fig.14. Transmitter Spurious Emission - Conducted: GFSK, 2440 MHz, 10GHz – 26GHz

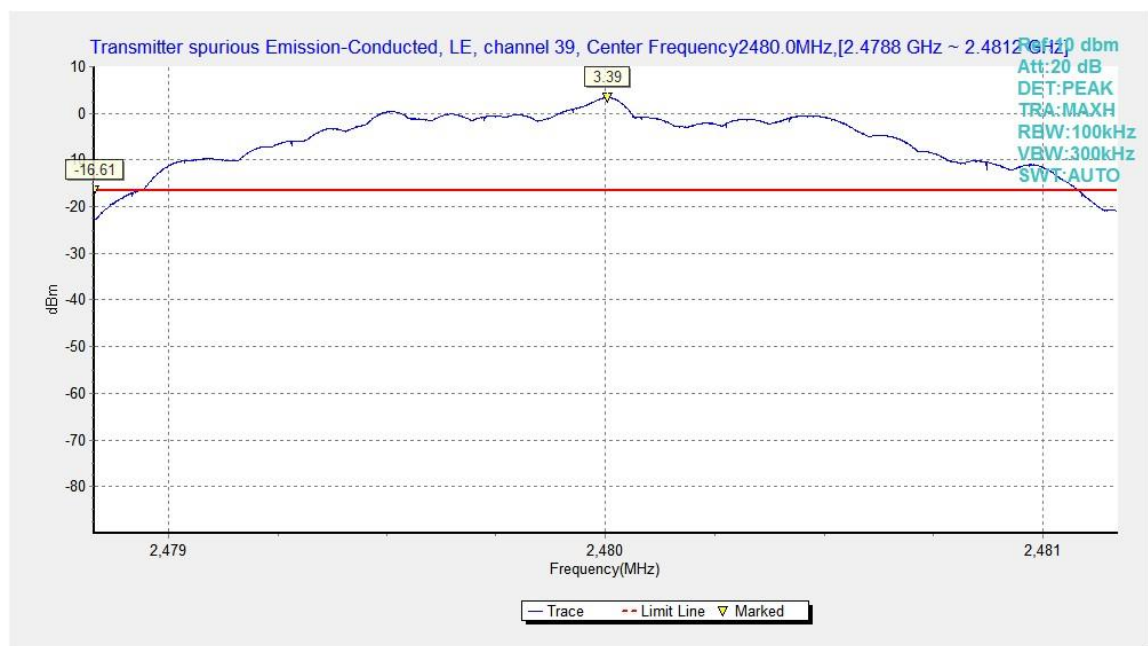


Fig.15. Transmitter Spurious Emission - Conducted: GFSK, 2480 MHz

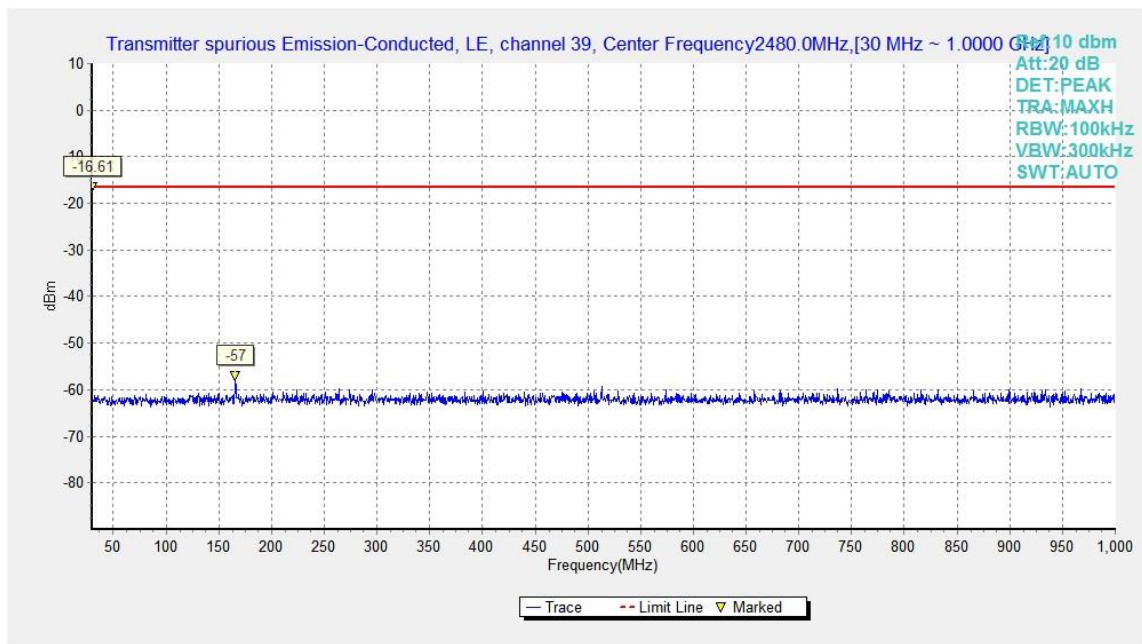


Fig.16. Transmitter Spurious Emission - Conducted: GFSK, 2480 MHz, 30MHz - 1GHz

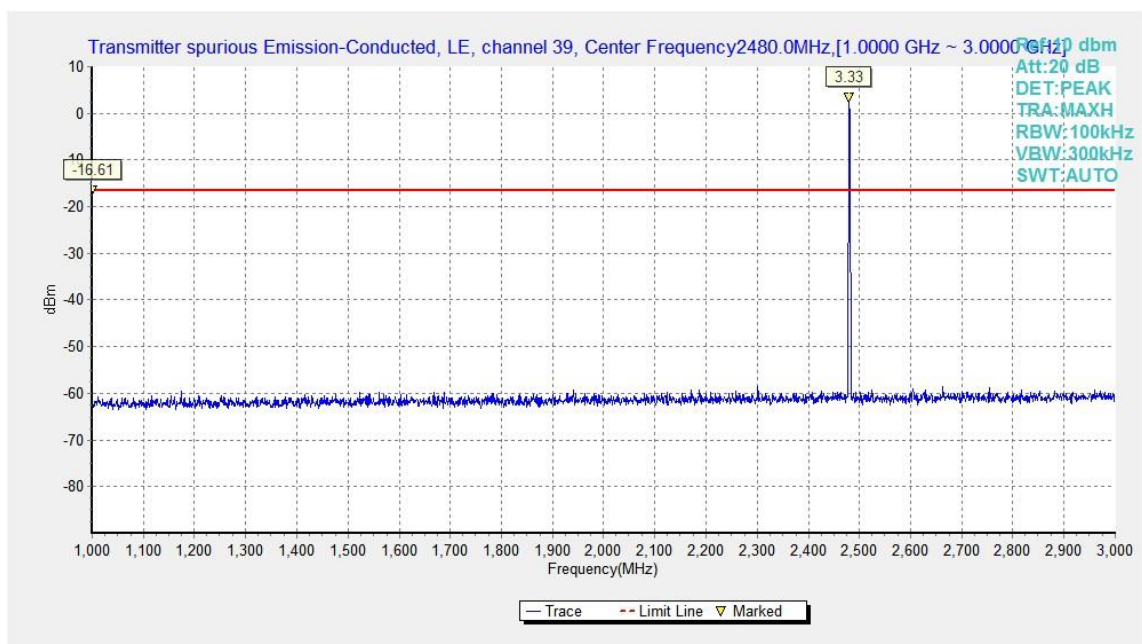


Fig.17. Transmitter Spurious Emission - Conducted: GFSK, 2480 MHz, 1GHz - 3GHz

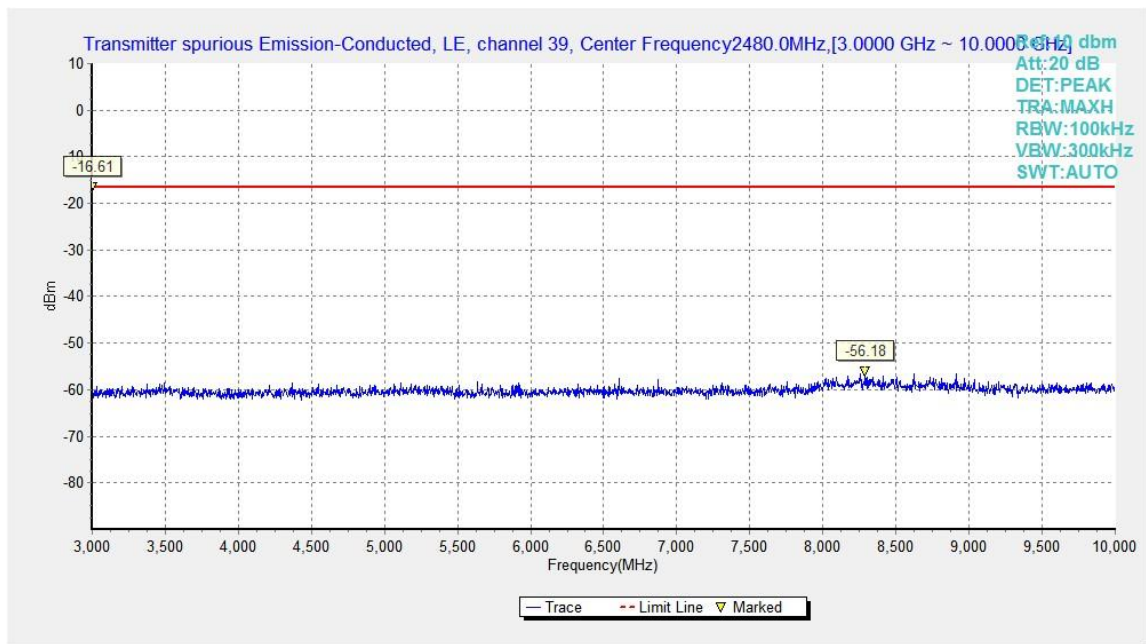


Fig.18. Transmitter Spurious Emission - Conducted: GFSK, 2480 MHz, 3GHz - 10GHz

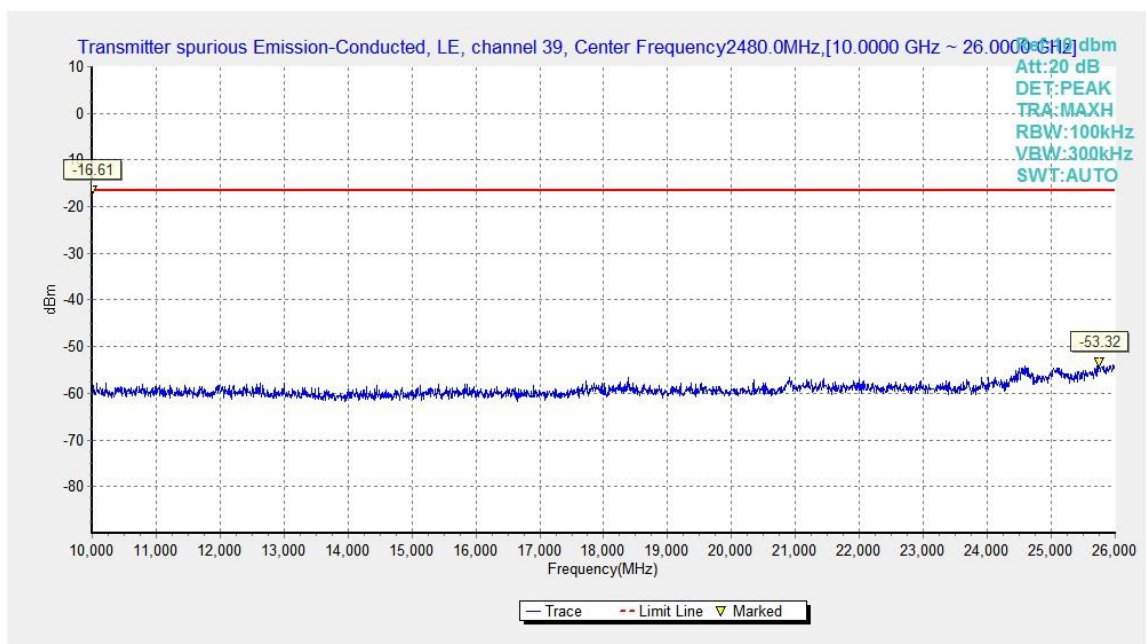


Fig.19. Transmitter Spurious Emission - Conducted: GFSK, 2480 MHz, 10GHz - 26GHz

B.6. Transmitter Spurious Emission - Radiated

Method of Measurement: See ANSI C63.10-2013-clause 6.4 & 6.5 & 6.6

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247, 15.205, 15.209	20dB below peak output power

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:

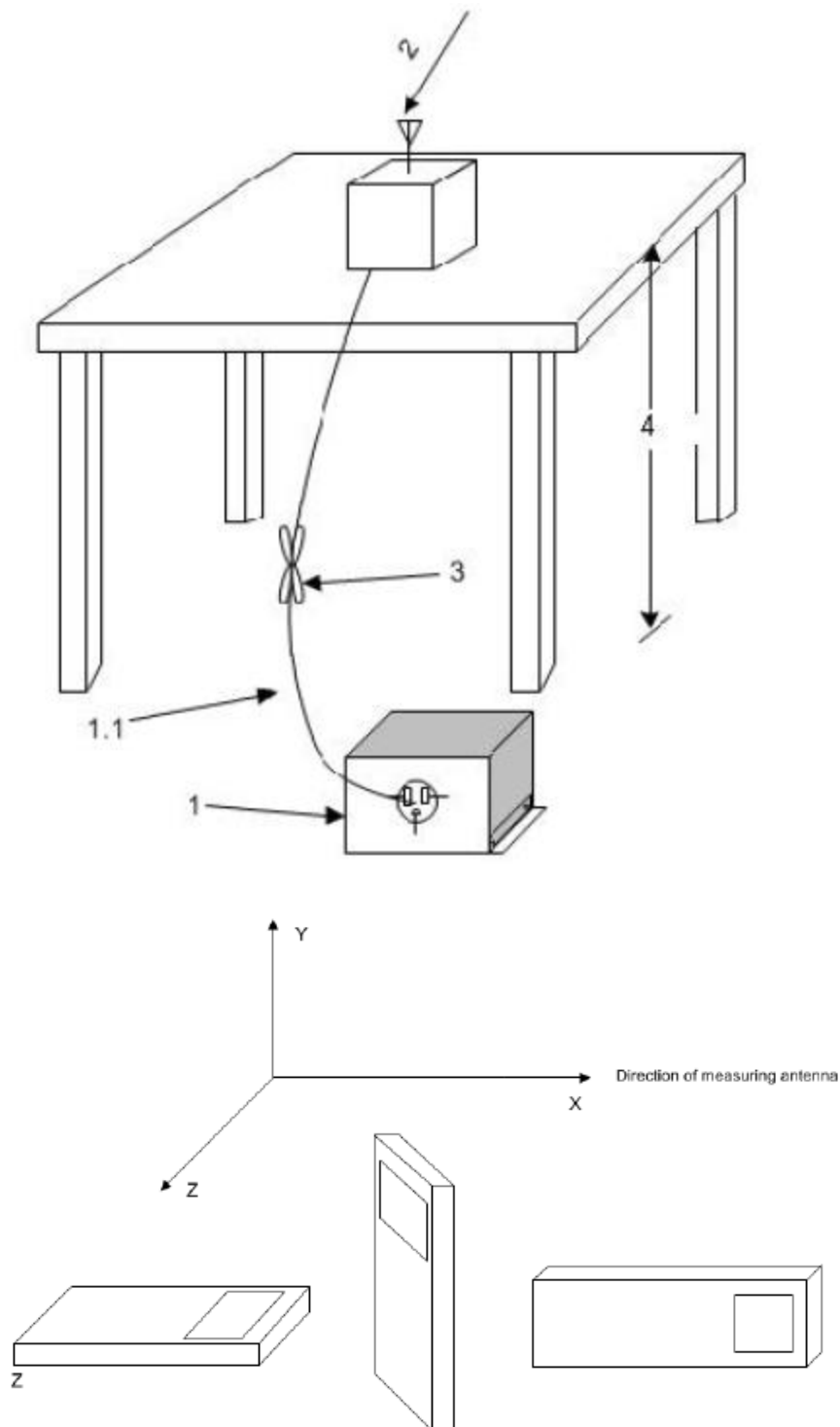
Frequency (MHz)	Field strength($\mu\text{V}/\text{m}$)	Measurement distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30

Frequency of emission (MHz)	Field strength($\mu\text{V}/\text{m}$)	Field strength(dBuV/m)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Set up:

Tabletop devices shall be placed on a nonconducting platform with nominal top surface dimensions 1 m by 1.5 m. For emissions testing at or below 1 GHz, the table height shall be 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m

The EUT and transmitting antenna shall be centered on the turntable.



Test Condition

The EUT shall be tested 1 near top, 1 near middle, and 1 near bottom. Set the unlicensed wireless device to operate in continuous transmit mode. For unlicensed wireless devices unable to be configured for 100% duty cycle even in test mode, configure the system for the maximum duty cycle supported.

When required for unlicensed wireless devices, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the

nominal rated supply voltage.

Exploratory radiated emissions measurements

Exploratory radiated measurements shall be performed at the measurement distance or at a closer distance than that specified for compliance to determine the emission characteristics of the EUT and, if applicable, the EUT configuration that produces the maximum level of emissions. The frequencies of maximum emission may be determined by manually positioning the antenna close to the EUT, and then moving the antenna over all sides of the EUT while observing a spectral display. It is advantageous to have prior knowledge of the frequencies of emissions, although this may be determined from such a near-field scan. The near-field scan shall only be used to determine the frequency but not the amplitude of the emissions. Where exploratory measurements are not adequate to determine the worst-case operating modes and are used only to identify the frequencies of the highest emissions, additional preliminary tests can be required.

For emissions from the EUT, the maximum level shall be determined by rotating the EUT and its antenna through 0° to 360° . For each mode of operation required to be tested, the frequency spectrum (based on findings from exploratory measurements) shall be monitored.

Broadband antennas and a spectrum analyzer or a radio-noise meter with a panoramic display are often useful in this type of test. If either antenna height or EUT azimuth are not fully measured during exploratory testing, then complete testing can be required at the OATS or semi-anechoic chamber when the final full spectrum testing is performed.

Final radiated emissions measurements

The final measurements are using the orientation and equipment arrangement of the EUT based on the measurement results found during the preliminary (exploratory) measurements, the EUT arrangement, appropriate modulation, and modes of operation that produce the emissions that have the highest amplitude relative to the limit shall be selected for the final measurement.

For each mode of operation required to be tested, the frequency spectrum (based on findings from exploratory measurements) shall be monitored. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.

For each mode selected, record the frequency and amplitude of the highest fundamental emission (if applicable), as well as the frequency and amplitude of the six highest spurious emissions relative to the limit. Emissions more than 20 dB below the limit do not need to be reported.

This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The receiver references:

Frequency of emission (MHz)	RBW/VBW	Sweep Time(s)
30-1000	100KHz/300KHz	5
1000-4000	1MHz/3MHz	15
4000-18000	1MHz/3MHz	40
18000-26500	1MHz/3MHz	20

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

Where:

P_{Mea} field strength recorded from the
instrument

Measurement Results:

EUT1 & EUT2

Mode	ANT NO.	Frequency	Conclusion
GFSK 1Mbps	Core 0	2402MHz	P
	Core 0	2440MHz	P
	Core 0	2480MHz	P
	Core 1	2402MHz	P
	Core 1	2440MHz	P
	Core 1	2480MHz	P
GFSK 2Mbps	Core 0	2402MHz	P
	Core 0	2440MHz	P
	Core 0	2480MHz	P
	Core 1	2402MHz	P
	Core 1	2440MHz	P
	Core 1	2480MHz	P

Note: All combinations were tested, and only the worst results are shown in this report.

EUT2, core1, 1Mbps

Average Measurement results

GFSK 2402MHz

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2384.363	44.95	2.6	27.7	14.66	54.0	9.1	V	155	284
2387.950	44.85	2.6	27.7	14.57	54.0	9.1	V	155	261
4803.750	28.51	-37.7	32.0	34.26	54.0	25.5	V	155	263
7206.250	31.69	-36.9	35.7	32.93	54.0	22.3	V	155	283
9608.125	34.29	-35.8	37.8	32.27	54.0	19.7	H	155	331
12010.000	36.06	-34.7	39.1	31.72	54.0	17.9	V	155	195

GFSK 2440MHz

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
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2389.747	44.91	2.6	27.7	14.63	54.0	9.1	V	155	1
2483.938	45.26	2.6	27.7	14.92	54.0	8.7	V	155	224
4881.875	28.59	-37.8	32.2	34.15	54.0	25.4	H	155	246
7323.125	31.71	-36.9	36.0	32.63	54.0	22.3	V	155	285
9763.750	34.96	-35.7	37.8	32.83	54.0	19.0	H	155	69
12205.000	37.15	-34.8	39.0	32.99	54.0	16.9	V	155	244

GFSK 2480MHz

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2483.981	45.18	2.6	27.7	14.84	54.0	8.8	V	155	177
2485.950	45.27	2.7	27.7	14.91	54.0	8.7	V	155	178
4960.000	28.09	-37.9	32.4	33.58	54.0	25.9	H	155	349
7440.000	32.37	-36.6	36.3	32.70	54.0	21.6	H	155	150
9920.000	34.56	-35.6	37.8	32.36	54.0	19.4	H	155	245
12400.000	36.31	-34.3	38.9	31.78	54.0	17.7	H	155	216

Peak Measurement results

GFSK 2402MHz

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2354.914	60.35	2.6	27.6	30.08	74.0	13.7	H	155	286
2375.196	60.29	2.6	27.7	30.01	74.0	13.7	V	155	264
4804.219	38.82	-37.8	32.0	44.56	74.0	35.2	V	155	264
7206.094	42.03	-36.9	35.7	43.27	74.0	32.0	V	155	286
9607.969	44.42	-35.8	37.8	42.40	74.0	29.6	V	155	330
12009.844	47.03	-34.7	39.1	42.69	74.0	27.0	V	155	198

GFSK 2440MHz

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2369.500	39.00	-39.5	27.7	50.87	74.0	35.0	H	155	0
2499.250	38.98	-39.0	27.7	50.25	74.0	35.0	H	155	220
4882.031	39.11	-37.8	32.2	44.67	74.0	34.9	V	155	242
7322.813	42.58	-36.9	36.0	43.50	74.0	31.4	V	155	286
9764.063	46.55	-35.7	37.8	44.42	74.0	27.5	V	155	66
12204.844	47.67	-34.8	39.0	43.51	74.0	26.3	H	155	242

GFSK 2480MHz

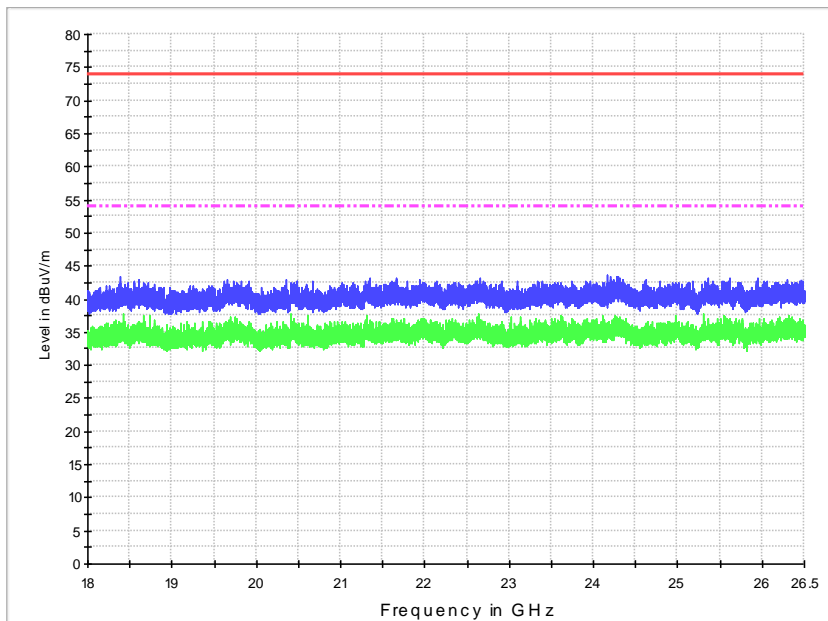
Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2489.963	60.41	2.7	27.7	30.02	74.0	13.6	V	155	176
2492.625	60.57	2.7	27.7	30.15	74.0	13.4	V	155	176
4959.844	39.15	-37.9	32.4	44.64	74.0	34.9	H	155	352
7440.000	42.92	-36.6	36.3	43.25	74.0	31.1	H	155	154
9920.156	46.03	-35.6	37.8	43.83	74.0	28.0	V	155	242
12399.844	47.21	-34.3	38.9	42.68	74.0	26.8	V	155	220

Conclusion: PASS

BELOW 30MHz

There are no emissions found below 30MHz with in 20dB of the limit.

WOSRT CASE 18GHz-26.5 GHz (EUT2, core1, 1Mbps)



B.7. 6dB Bandwidth

Method of Measurement:

The measurement is made according to ANSI C63.10 clause 11.8.1

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) = 300 kHz.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247(a)(2)	$\geq 500\text{KHz}$

Measurement Results:

EUT3 Core1 2Mbps

Channel No.	Frequency (MHz)	6dB Bandwidth (kHz)		Conclusion
0	2402	Fig.20	1138.00	P
19	2440	Fig.21	1139.50	P
39	2480	Fig.22	1140.00	P

Conclusion: PASS

Test graphs as below:

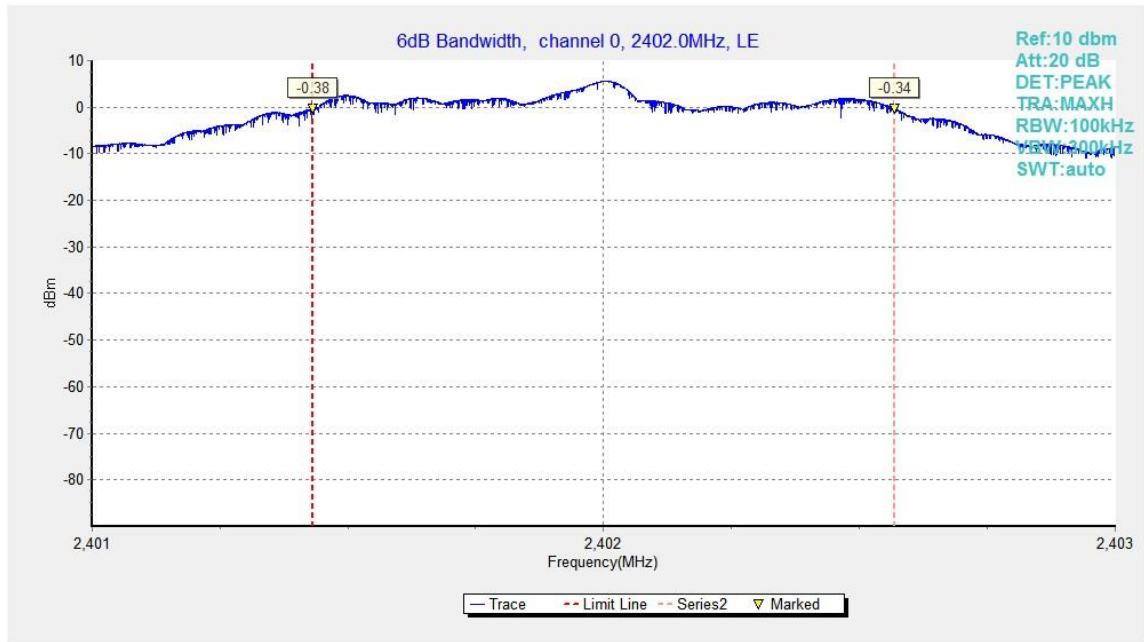


Fig.20. 6dB Bandwidth: GFSK, 2402 MHz

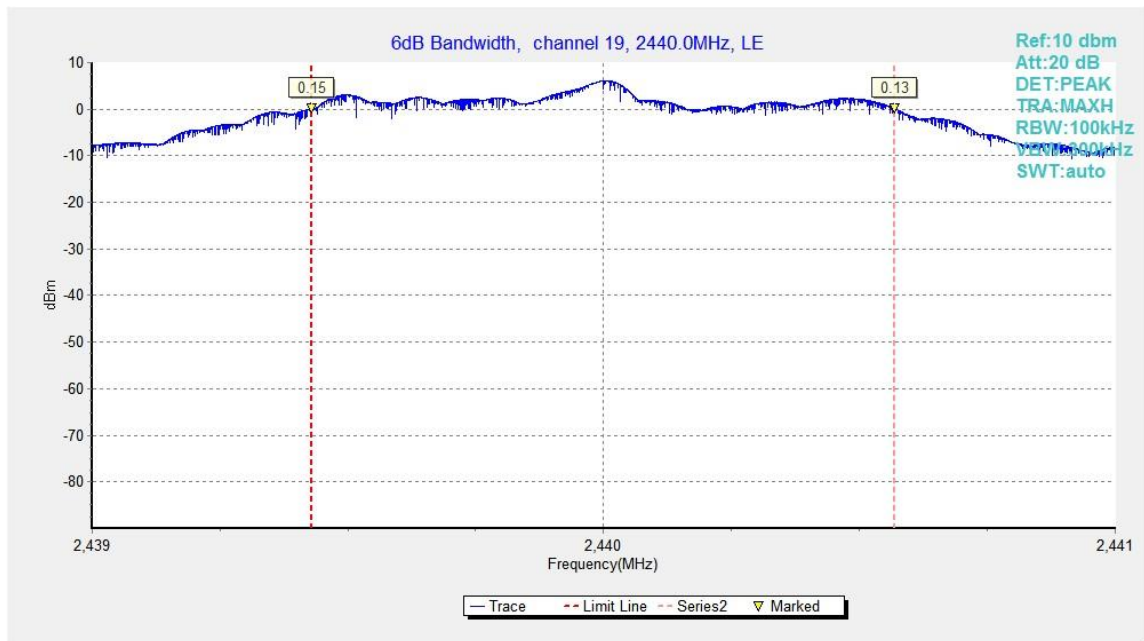


Fig.21. 6dB Bandwidth: GFSK, 2440 MHz

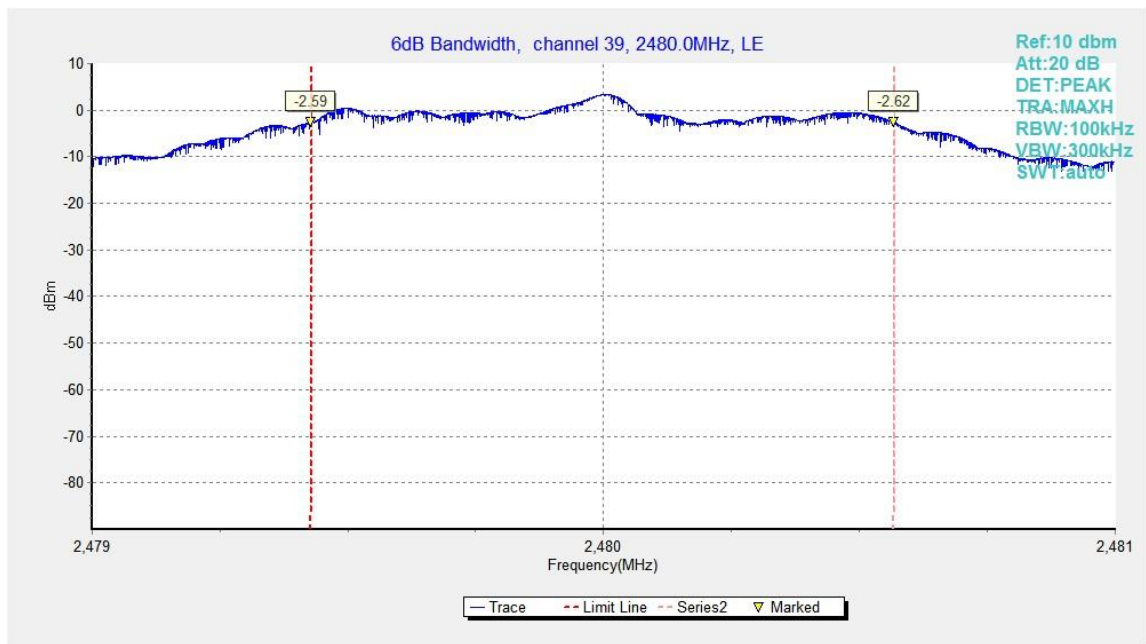


Fig.22. 6dB Bandwidth: GFSK, 2480 MHz

B.8. Maximum Power Spectral Density Level

Method of Measurement:

The measurement is made according to ANSI C63.10 clause 11.10.2

1. Set the RBW = 3 kHz.
2. Set the VBW = 10 kHz.
3. Set the span to 2 times the DTS bandwidth.
4. Detector = peak.
5. Sweep time = auto couple.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.
8. Use the peak marker function to determine the maximum amplitude level within the RBW.

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247(e)	$\leq 8.0 \text{ dBm/3kHz}$

Measurement Results:

EUT3 Core1 2Mbps

Channel No.	Frequency (MHz)	Maximum Power Spectral Density Level(dBm/3kHz)		Conclusion
0	2402	Fig.23	-11.59	P
19	2440	Fig.24	-11.10	P
39	2480	Fig.25	-13.83	P

Test graphs as below:

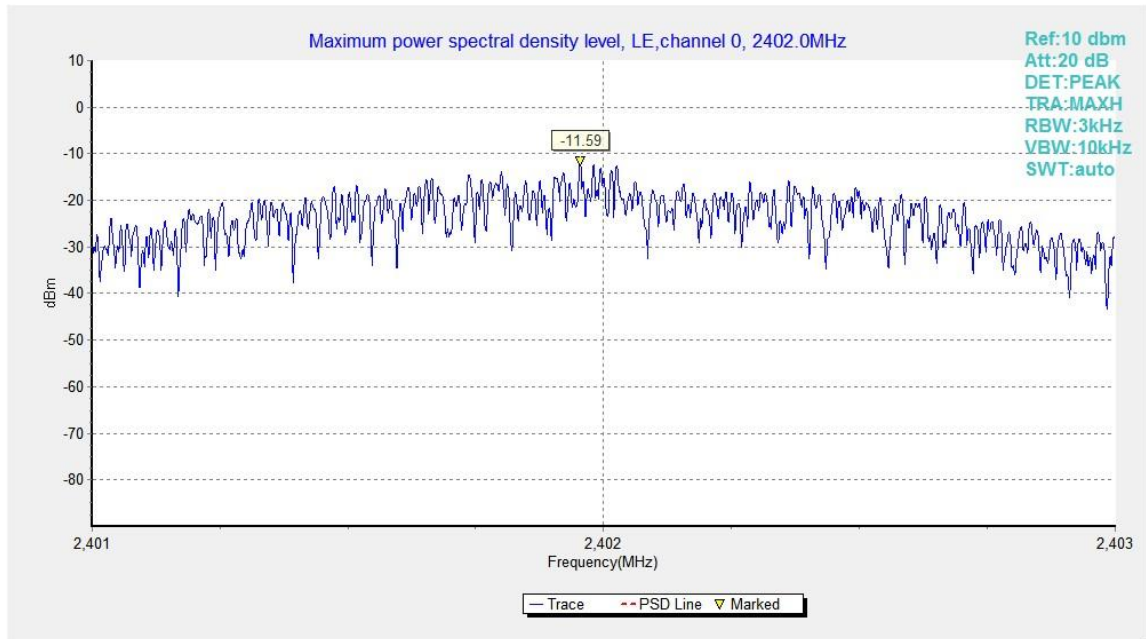


Fig.23. Maximum Power Spectral Density Level Function: GFSK, 2402 MHz

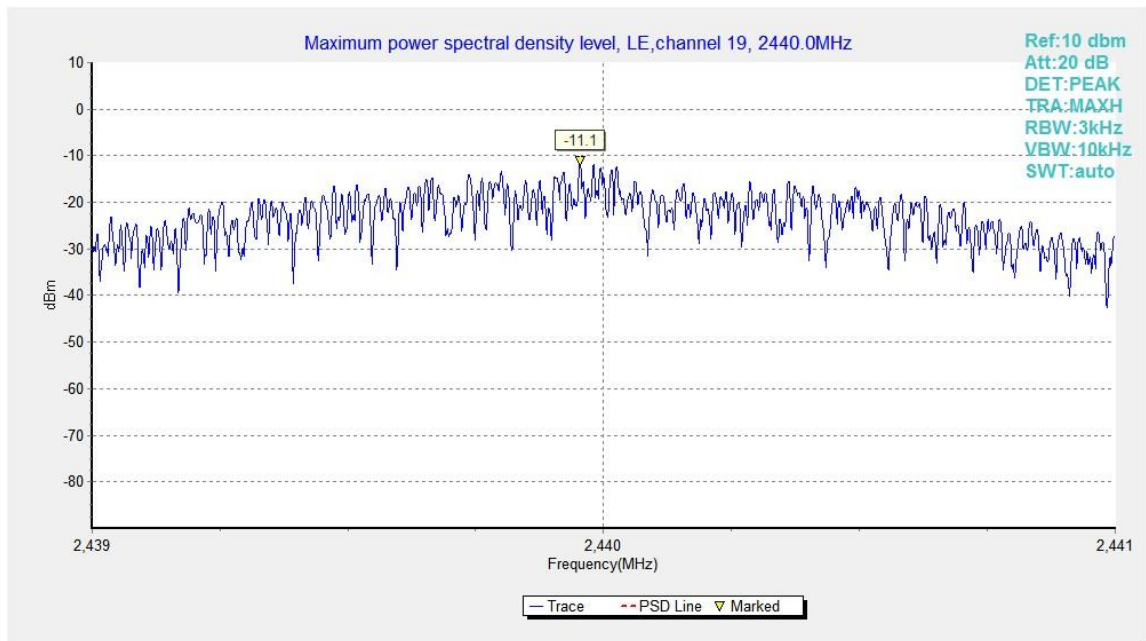


Fig.24. Maximum Power Spectral Density Level Function: GFSK, 2440 MHz

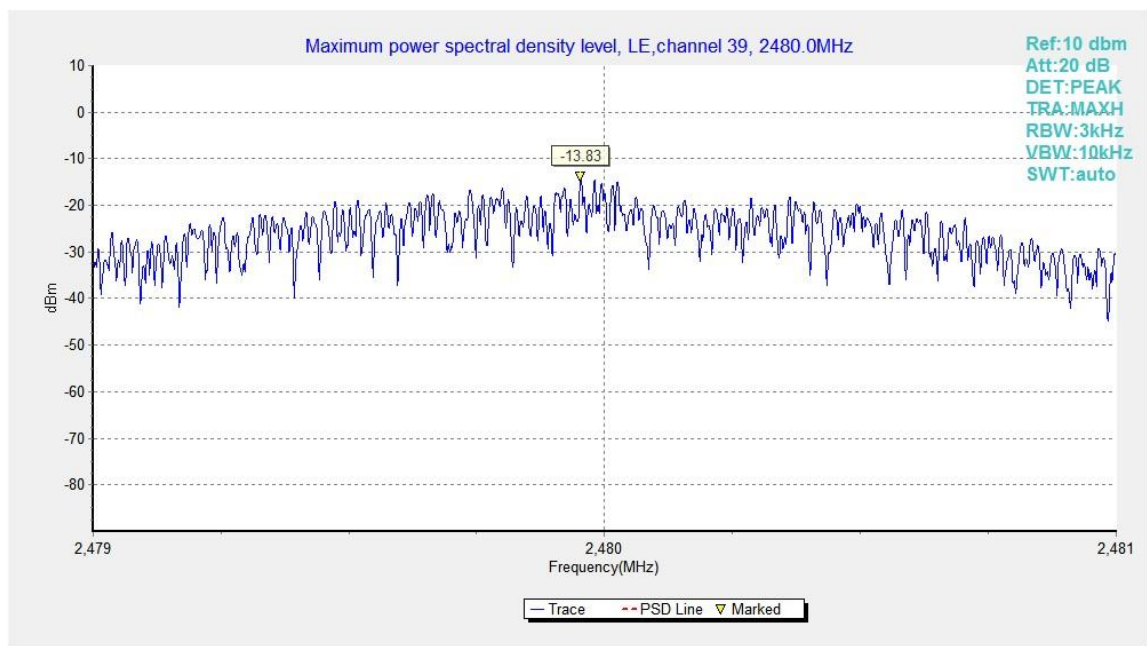


Fig.25. Maximum Power Spectral Density Level Function: GFSK, 2480 MHz

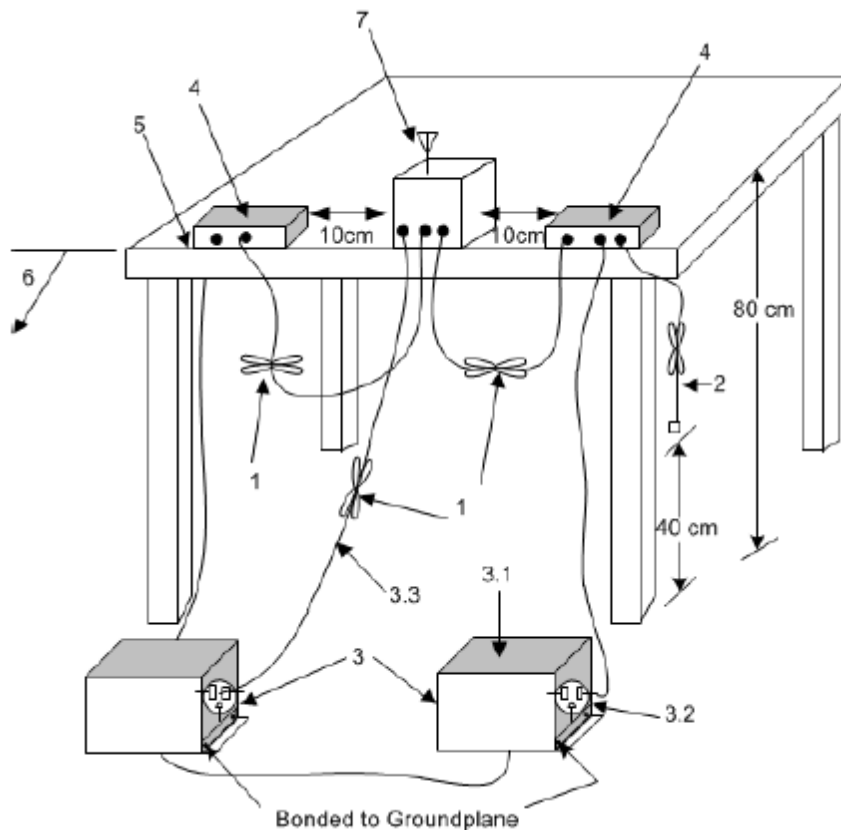
B.9. AC Powerline Conducted Emission

Method of Measurement: See ANSI C63.10-clause 6.2

Setup:

A stand-alone EUT shall be placed in the center along the back edge of the tabletop. For multiunit tabletop systems, the EUT shall be centered laterally (left to right facing the tabletop) on the tabletop and its rear shall be flush with the rear of the table.

Accessories that are part of an EUT system tested on a tabletop shall be placed in a test arrangement on one or both sides of the host with a 10 cm separation between the nearest points of the cabinets. The rear of the host and accessories shall be flush with the back of the supporting tabletop unless that would not be typical of normal use. If more than two accessories are present, then an equipment test arrangement shall be chosen that maintains 10 cm spacing between cabinets unless the equipment is normally located closer together.



Exploratory ac power-line conducted emission measurements

Exploratory measurements shall be used to identify the frequency of the emission that has the highest amplitude relative to the limit by operating the EUT in a range of typical modes of operation, cable positions, and with a typical system equipment configuration and arrangement. For each mode of operation and for each ac power current-carrying conductor, cable manipulation shall be performed within the range of likely configurations. For this measurement or series of measurements, the frequency spectrum of interest shall be monitored looking for the emission that has the highest amplitude relative to the limit. Once that emission is found for each current-carrying conductor of each power cord associated with the EUT (but not the cords associated with non-EUT equipment in the overall system), the one configuration and

arrangement and mode of operation that produces the emission closest to the limit over all of the measured conductors shall be recorded.

Final ac power-line conducted emission measurements

Based on the exploratory tests of the EUT, the one EUT cable configuration and arrangement and mode of operation that produced the emission with the highest amplitude relative to the limit is selected for the final measurement, while applying the appropriate modulating signal to the EUT. If the EUT is relocated from an exploratory test site to a final test site, the highest emissions shall be remaximized at the final test location before final ac power-line conducted emission measurements are performed. The final test on all current-carrying conductors of all of the power cords to the equipment that comprises the EUT (but not the cords associated with other non-EUT equipment in the system) is then performed for the full frequency range for which the EUT is being tested for compliance without further variation of the EUT arrangement, cable positions, or EUT mode of operation. If the EUT is composed of equipment units that have their own separate ac power connections (e.g., floor-standing equipment with independent power cords for each shelf that are able to connect directly to the ac power network), then each current-carrying conductor of one unit is measured while the other units are connected to a second (or more) LISN(s). All units shall be measured separately. If a power strip is provided by the manufacturer, to supply all of the units making up the EUT, only the conductors in the power cord of the power strip shall be measured.

Test Condition:

Voltage (V)	Frequency (Hz)
120	60

Measurement Result and limit:

EUT set-up No.	Combination of EUT and AE	Remarks
Set.1	EUT1+AE1+AE2+AE4	EUT1+Charger1
Set.2	EUT2+AE9+AE3+AE4	EUT2+Charger2

Note: All combinations were tested, and only the worst results are shown in this report.

EUT ID: EUT2(Set.2)

Bluetooth (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Result (dBμV)		Conclusion
		With charger		
		bluetooth	Idle	
0.15 to 0.5	66 to 56	Fig.B.9.1	Fig.B.9.2	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.				

Bluetooth (Average Limit)

Frequency range (MHz)	Average Limit (dBμV)	Result (dBμV)		Conclusion
		With charger		
		bluetooth	Idle	
0.15 to 0.5	56 to 46	Fig.B.9.1	Fig.B.9.2	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.				

Conclusion: Pass

Test graphs as below:

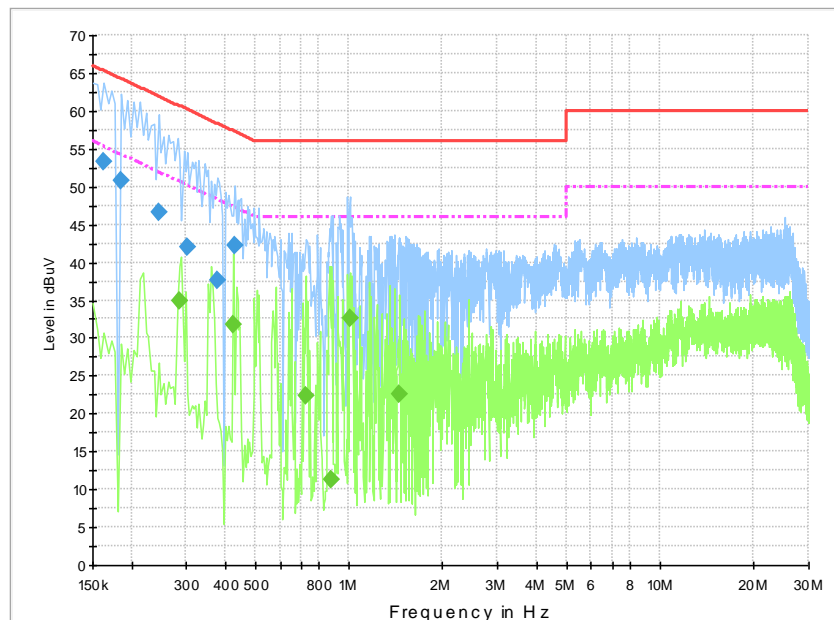


Fig.B.9.1 AC Powerline Conducted Emission- bluetooth

Note: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.163500	53.2	1000.0	9.000	On	N	19.6	12.1	65.3
0.186000	50.7	1000.0	9.000	On	N	19.7	13.5	64.2
0.244500	46.5	1000.0	9.000	On	N	19.7	15.4	61.9
0.303000	42.0	1000.0	9.000	On	N	19.7	18.1	60.2
0.379500	37.6	1000.0	9.000	On	L1	19.8	20.7	58.3
0.429000	42.2	1000.0	9.000	On	N	19.8	15.1	57.3

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.285000	34.9	1000.0	9.000	On	N	19.7	15.8	50.7
0.424500	31.8	1000.0	9.000	On	N	19.8	15.6	47.4
0.726000	22.3	1000.0	9.000	On	N	19.7	23.7	46.0
0.879000	11.2	1000.0	9.000	On	L1	19.7	34.8	46.0
1.005000	32.5	1000.0	9.000	On	N	19.7	13.5	46.0
1.455000	22.5	1000.0	9.000	On	L1	19.6	23.5	46.0

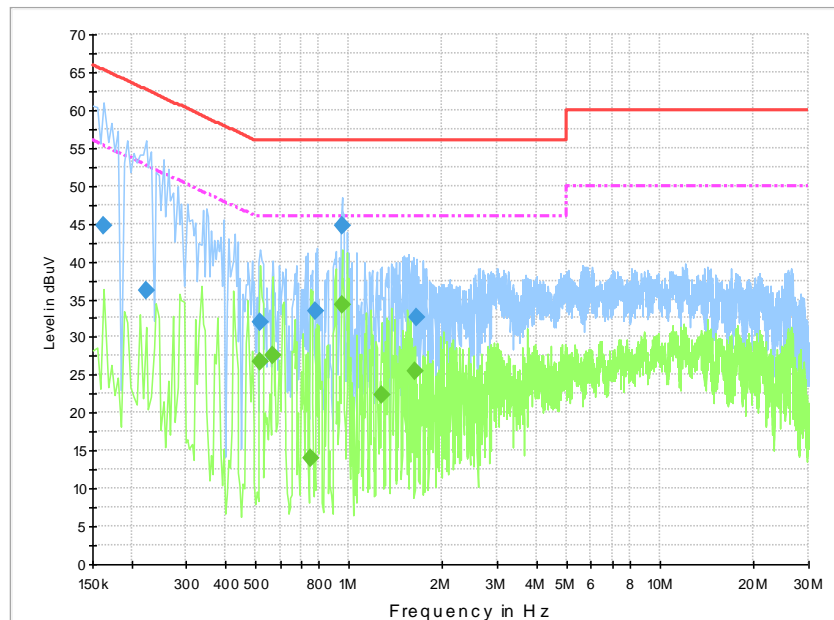


Fig.B.9.2 AC Powerline Conducted Emission-Idle

Note: The graphic result above is the maximum of the measurements for both phase line and neutral line.



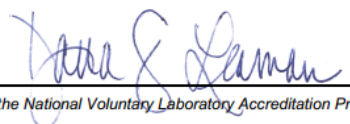
Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.163500	44.8	1000.0	9.000	On	L1	19.7	20.5	65.3
0.222000	36.2	1000.0	9.000	On	L1	19.7	26.5	62.7
0.519000	32.0	1000.0	9.000	On	L1	19.8	24.0	56.0
0.784500	33.4	1000.0	9.000	On	N	19.7	22.6	56.0
0.946500	44.7	1000.0	9.000	On	N	19.7	11.3	56.0
1.653000	32.6	1000.0	9.000	On	N	19.6	23.4	56.0

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.519000	26.7	1000.0	9.000	On	N	19.8	19.3	46.0
0.568500	27.6	1000.0	9.000	On	N	19.8	18.4	46.0
0.753000	14.1	1000.0	9.000	On	L1	19.7	31.9	46.0
0.946500	34.3	1000.0	9.000	On	N	19.7	11.7	46.0
1.270500	22.3	1000.0	9.000	On	N	19.6	23.7	46.0
1.635000	25.4	1000.0	9.000	On	N	19.6	20.6	46.0

ANNEX C: Accreditation Certificate

<p>United States Department of Commerce National Institute of Standards and Technology</p> <div style="display: flex; justify-content: space-around; align-items: center;"><div style="font-size: 4em; font-weight: bold; letter-spacing: 0.1em;">NVLAP[®]</div><div style="text-align: center;"></div></div> <hr style="border: 0.5px solid black;"/> <h3 style="margin: 0;">Certificate of Accreditation to ISO/IEC 17025:2017</h3> <hr style="border: 0.5px solid black;"/> <p style="margin: 10px 0;">NVLAP LAB CODE: 600118-0</p> <p style="margin: 10px 0;">Telecommunication Technology Labs, CAICT Beijing China</p> <p style="margin: 10px 0;"><i>is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:</i></p> <p style="margin: 10px 0;">Electromagnetic Compatibility & Telecommunications</p> <p style="margin: 10px 0;"><i>This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).</i></p> <div style="display: flex; justify-content: space-between; align-items: flex-end; margin-top: 20px;"><div style="width: 40%;"><hr style="border: 0.5px solid black;"/><p style="margin: 0;">2020-09-29 through 2021-09-30 <i>Effective Dates</i></p></div><div style="width: 15%; text-align: center;"></div><div style="width: 40%; text-align: right;"><div style="margin-bottom: 5px;"></div><hr style="border: 0.5px solid black;"/><p style="margin: 0;"><i>For the National Voluntary Laboratory Accreditation Program</i></p></div></div>	
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END OF REPORT