FCC PART 15C
TEST REPORT

BLUETOOTH LOW ENERGY (BLE) PART

No. I17Z60331-SRD05

for

TCL Communication Ltd.

LTE / UMTS / GSM mobile phone

Model Name: 5085G

FCC ID:2ACCJH073

with

Hardware Version: 10

Software Version: v7J5H

Issued Date: 2017-5-16

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.

Test Laboratory:

CTTL, Telecommunication Technology Labs, Academy of Telecommunication Research, MIIT.

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
I17Z60331-SRD05	Rev.0	1st edition	2017-5-16

CONTENTS

1. Test Laboratory

1.1. TestingLocation

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

1.2. TestingEnvironment

Normal Temperature: 15-35℃

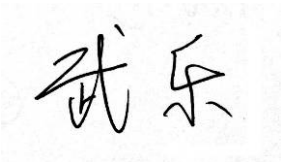
Relative Humidity: 20-75%

1.3. Project data

Testing Start Date: 2017-2-28

Testing End Date: 2017-5-8

1.4. Signature



Wu Le

(Prepared this test report)

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(Reviewed this test report)

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(Approved this test report)

2. ClientInformation

2.1. Applicant Information

Company Name:	TCL Communication Ltd.
Address/Post:	5F, C building, No. 232, Liang Jing Road ZhangJiang High-Tech Park, Pudong Area Shanghai, P.R. China. 201203
City:	Shanghai
Postal Code:	201203
Country:	China
Telephone:	0086-21-31363544
Fax:	0086-21-61460602

2.2. Manufacturer Information

Company Name:	TCL Communication Ltd.
Address/Post:	5F, C building, No. 232, Liang Jing Road ZhangJiang High-Tech Park, Pudong Area Shanghai, P.R. China. 201203
City:	Shanghai
Postal Code:	201203
Country:	China
Telephone:	0086-21-31363544
Fax:	0086-21-61460602

3. Equipment UnderTest (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description	LTE / UMTS / GSM mobile phone
Model Name	5085G
FCC ID	2ACCJH073
Frequency Band	ISM 2400MHz~2483.5MHz
Type of Modulation(LE mode)	GFSK (Bluetooth Low Energy)
Number of Channels(LE mode)	40
Power Supply	3.8V DC by Battery

3.2. Internal Identification of EUT

EUT ID*	SN or IMEI	HW Version	SW Version
EUT1	/	10	v7J5H
EUT2	/	10	v7J5H

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

3.3. Internal Identification of AE

AE ID*	Description		
AE1	Battery	/	Inbuilt
AE3	Charger	/	/
AE11	USB Cable	/	/
AE12	USB Cable	/	/

AE1

Model	TLp027AJ
SN	CAC2710010CJ
Manufacturer	COSLIGHT
Capacitance	2710 mAh

AE3

Model	CBA0058AGAD2
Manufacturer	TENPAO
Length of cable	/

AE11

Model	CDA0000078CF
Manufacturer	LUXSHARE
Length of cable	98cm

AE12

Model	CDA0000104CF
Manufacturer	LUXSHARE

Length of cable	98cm

*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 LTE / UMTS / GSM mobile 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 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.	2015
ANSI C63.10	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices	June,2013

5. Test Results

5.1. 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
6dB Bandwidth	15.247 (a)(2)	**P**
Peak Output Power - Conducted	15.247 (b)(1)	**P**
Maximum Power Spectral Density Level	15.247(e)	**P**
Conducted Emission	15.247 (d)	**P**
Radiated Emission	15.247, 15.205, 15.209	**P**
Frequency Band Edges	15.247 (d)	**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.

5.2. 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

This model is a variant product which model name is 5085C; all the test result has been derived from test report of 5085C.

6. Test Facilities Utilized

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Vector Signal Analyzer	FSQ26	200136	Rohde & Schwarz	1 year	2017-10-25
2	LISN	ENV216	101200	Rohde & Schwarz	1 year	2017-07-10
3	Test Receiver	ESCI	100344	Rohde & Schwarz	1 year	2018-03-05
4	Shielding Room	S81	/	ETS-Lindgren	/	/

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Test Receiver	ESU26	100376	Rohde & Schwarz	1 year	2017-11-30
2	BiLog Antenna	VULB9163	514	Schwarzbeck	3 years	2017-11-24
3	Dual-Ridge Waveguide Horn Antenna	3117	00139065	ETS-Lindgren	3 years	2017-09-21
4	Dual-Ridge Waveguide Horn Antenna	3116	2663	ETS-Lindgren	3 years	2017-06-17
5	Vector Signal Analyzer	FSV	101047	Rohde & Schwarz	1 year	2017-06-28

7. Measurement Uncertainty

7.1. Peak Output Power - Conducted

Measurement Uncertainty:

Measurement Uncertainty(k=2)	0.66dB

7.2. Frequency Band Edges

Measurement Uncertainty:

Measurement Uncertainty(k=2)	0.66dB

7.3. Conducted Emission

Measurement Uncertainty:

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

7.4. Radiated Emission

Measurement Uncertainty:

FrequencyRange	Uncertainty(k=2)
＜1 GHz	4.86dB
＞ 1 GHz	5.26dB

7.5. 6dB Bandwidth

Measurement Uncertainty:

Measurement Uncertainty(k=2)	61.936Hz

7.6. Maximum Power Spectral Density Level

Measurement Uncertainty:

Measurement Uncertainty(k=2)	0.66dB

7.7. AC Powerline Conducted Emission

Measurement Uncertainty:

Measurement Uncertainty(k=2)	3.38dB

ANNEX A: Detailed Test Results

A.1. Measurement Method

A.1.1. Conducted Measurements

The measurement is made according to ANSI C63.10.

1). Connect the EUT to the test system correctly.

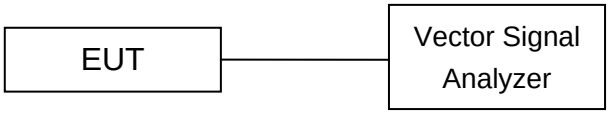
2). Set the EUT to the required work mode (Transmitter, receiver or transmitter & receiver).

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



A.1.2. Radiated Emission Measurements

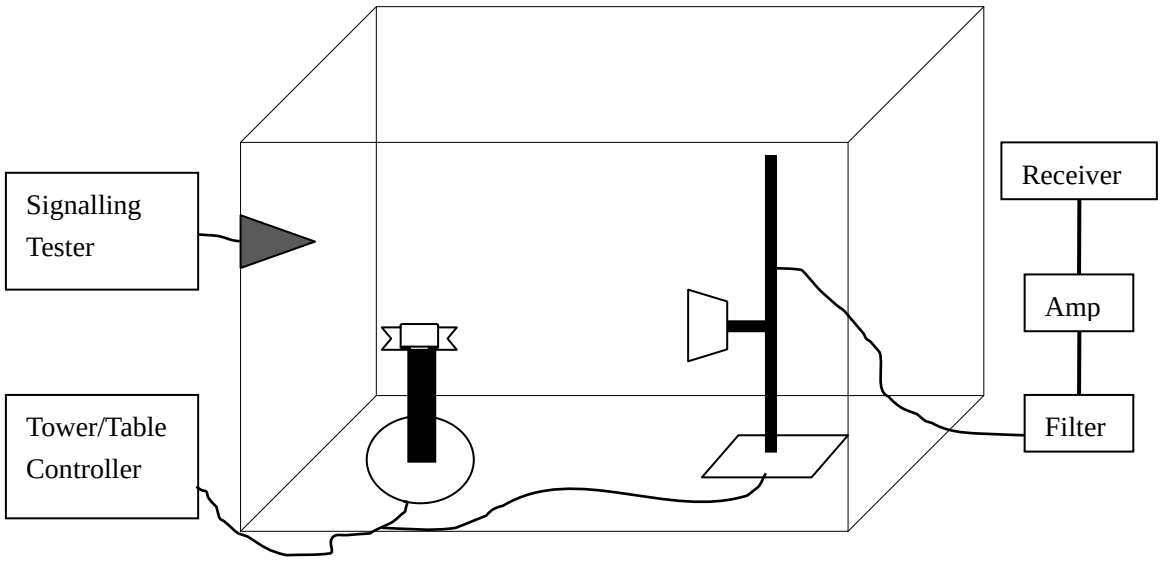
The measurement is made according to ANSI C63.10.

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;



A.2. Peak Output Power - Conducted

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

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 Part 15.247(b)(1)	< 30

Measurement Results:

For GFSK

Channel No.	Frequency (MHz)	Peak Conducted Output Power (dBm)	Conclusion
0	2402	-1.36	P
19	2440	-1.31	P
39	2480	-3.04	P

Conclusion: PASS

A.3. Frequency Band Edges - Conducted

Method of Measurement:See ANSI C63.10-clause6.10.4

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: coupled
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 deltabetween the peak of the fundamental and the peak of the band-edge emission. This is not anabsolute field strength measurement; it is only a relative measurement to determine the amount bywhich 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:

For GFSK

Channel No.	Frequency (MHz)	Hopping	Band Edge Power (dBc)		Conclusion
0	2402	Hopping OFF	Fig.1	-56.49	P
39	2480	Hopping OFF	Fig.2	-55.34	P

Conclusion: PASS

Test graphs as below

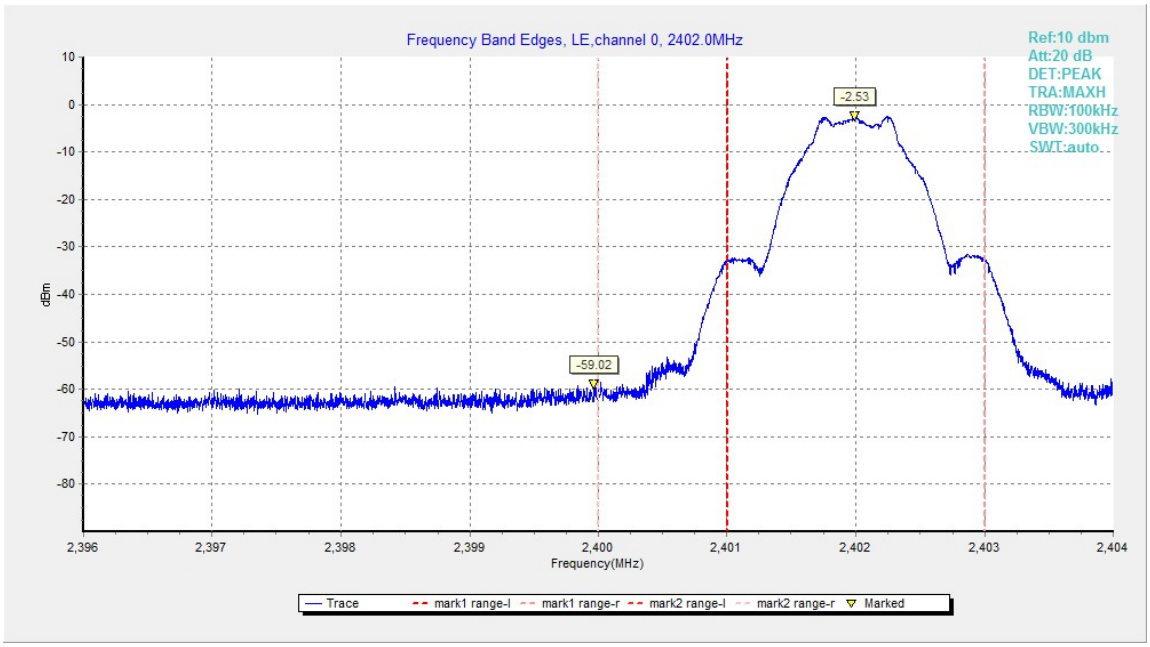


Fig.1. Frequency Band Edges: GFSK, 2402 MHz**,** Hopping Off

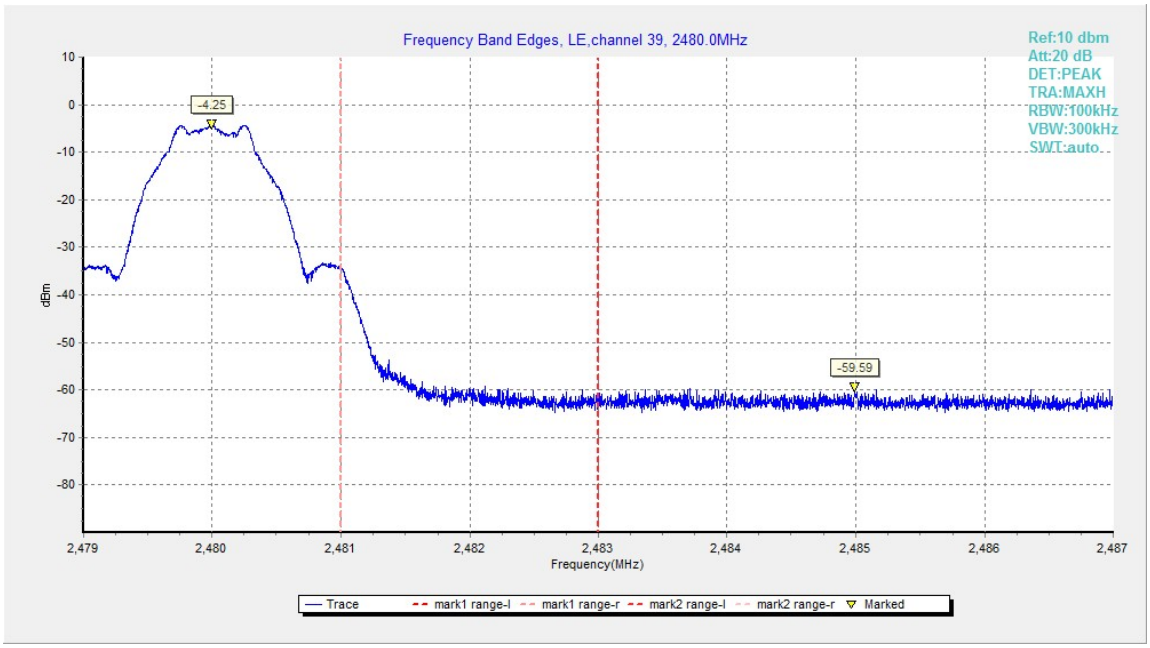


Fig.2. Frequency Band Edges: GFSK, 2480 MHz, Hopping Off

A.4. 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 PSDlevel.Next, determine the power in 100 kHz band segments outside of the authorized frequency bandusing 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 thespan).

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 requirementsspecified above.

Measurement Limit:

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

Measurement Results:

For GFSK

Channel No.	Frequency (MHz)	Frequency Range	Test Results	Conclusion
0	2402	Center Frequency	Fig.3	P
		30 MHz ~ 1 GHz	Fig.4	P
		1 GHz ~ 3 GHz	Fig.5	P
		3 GHz ~ 10 GHz	Fig.6	P
		10GHz ~ 26 GHz	Fig.7	P
19	2440	Center Frequency	Fig.8	P
		30 MHz ~ 1 GHz	Fig.9	P
		1 GHz ~ 3 GHz	Fig.10	P
		3 GHz ~ 10 GHz	Fig.11	P
		10GHz ~ 26 GHz	Fig.12	P
39	2480	Center Frequency	Fig.13	P
		30 MHz ~ 1 GHz	Fig.14	P
		1 GHz ~ 3GHz	Fig.15	P
		3 GHz ~ 10 GHz	Fig.16	P
		10 GHz ~ 26 GHz	Fig.17	P

Conclusion: PASS

Test graphs as below

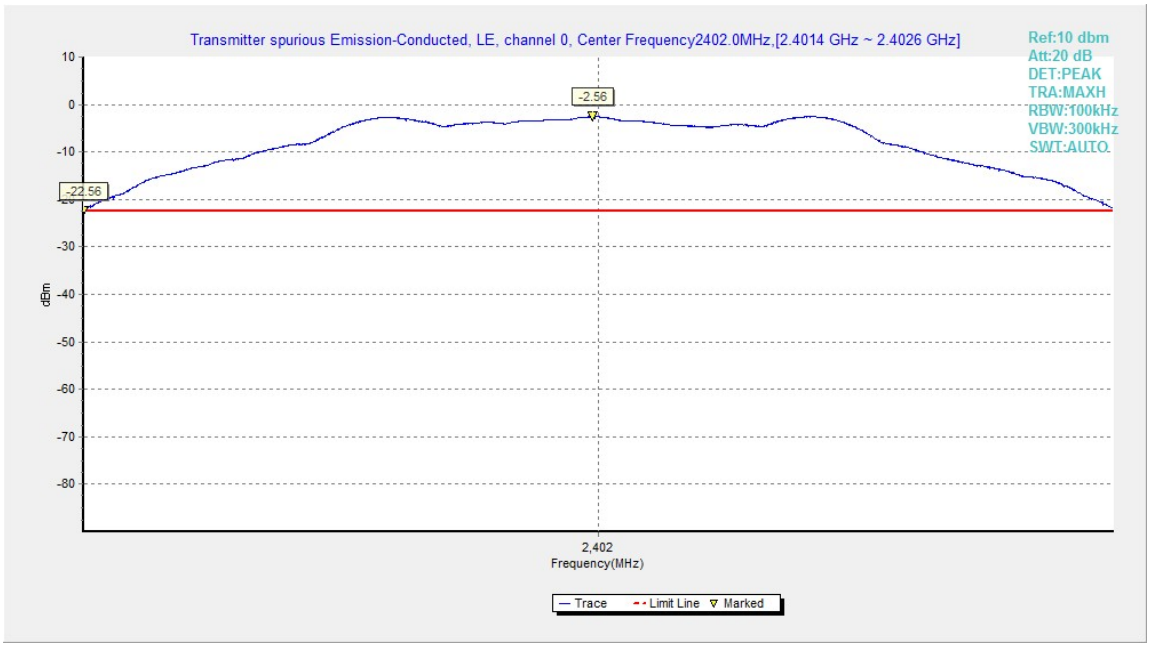


Fig.3. Transmitter Spurious Emission -Conducted: GFSK,2402MHz

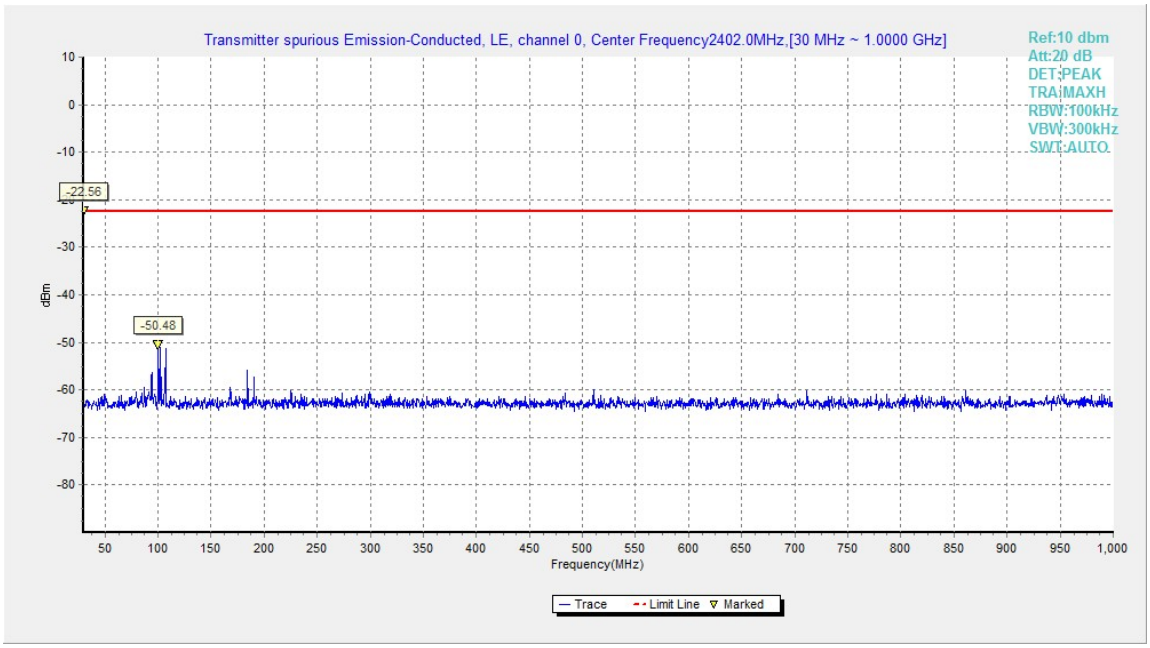


Fig.4. Transmitter Spurious Emission -Conducted: GFSK, 2402 MHz, 30MHz - 1GHz

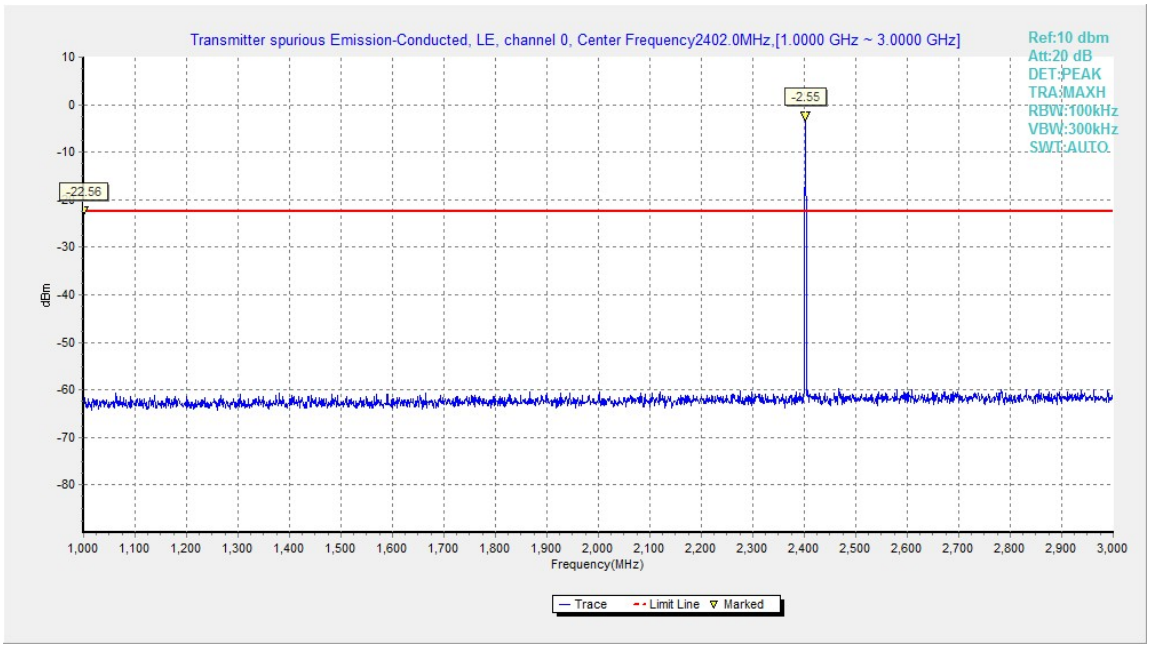


Fig.5. Transmitter Spurious Emission -Conducted: GFSK, 2402 MHz,1GHz - 3GHz

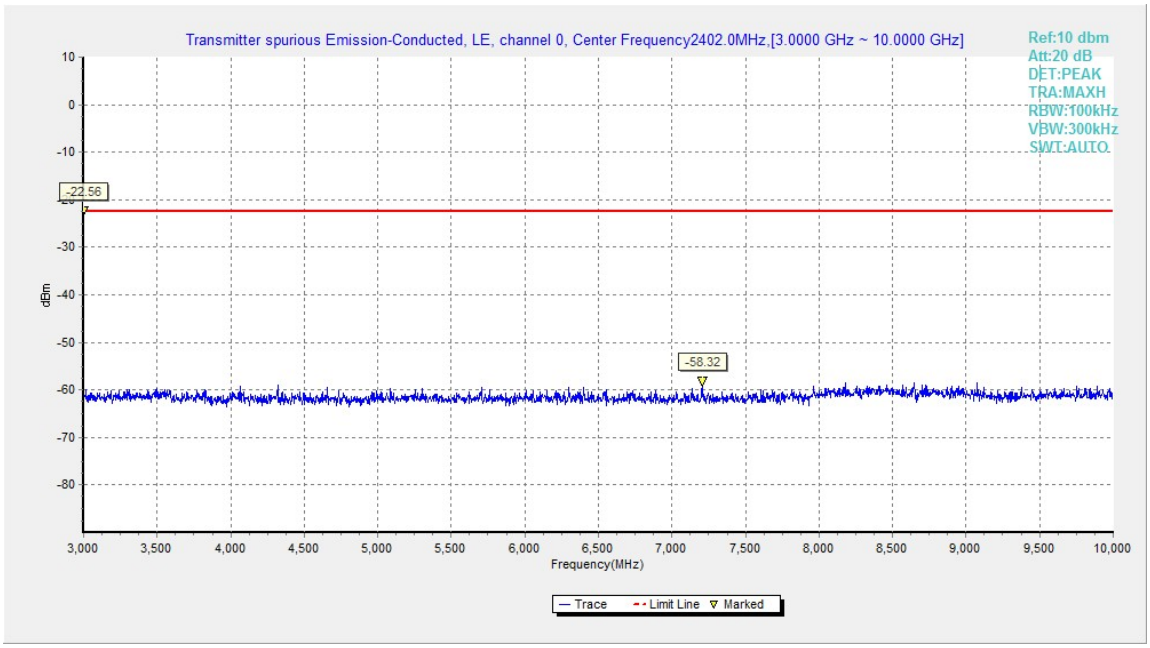


Fig.6. Transmitter Spurious Emission -Conducted: GFSK, 2402 MHz,3GHz - 10GHz

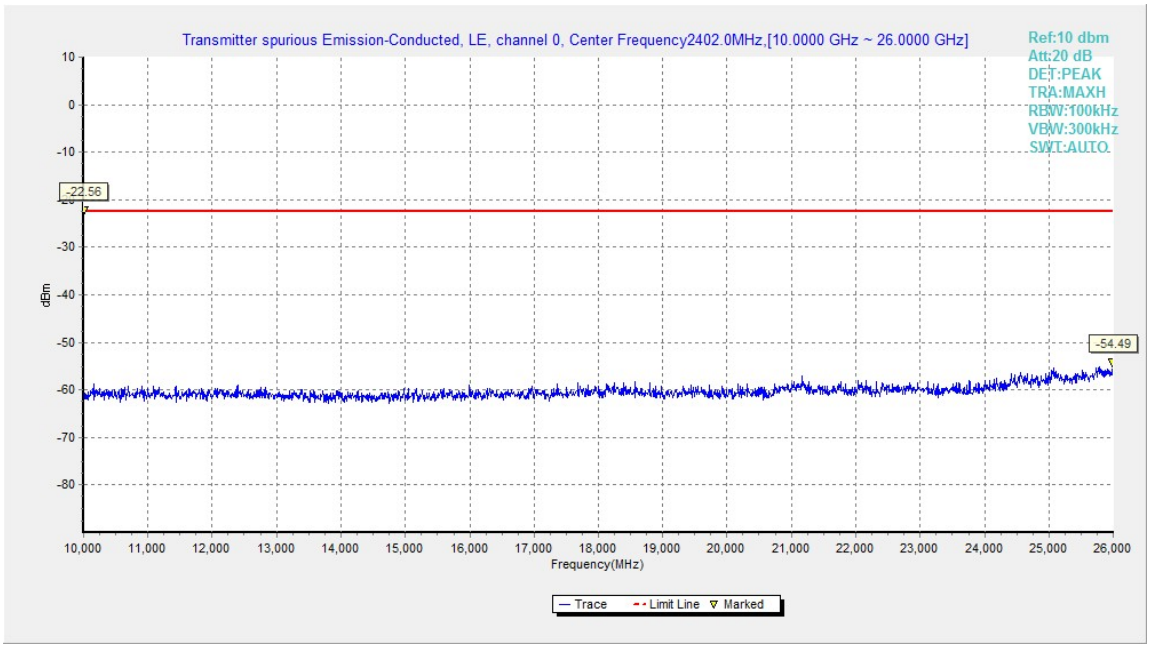


Fig.7. Transmitter Spurious Emission -Conducted: GFSK, 2402 MHz,10GHz - 26GHz

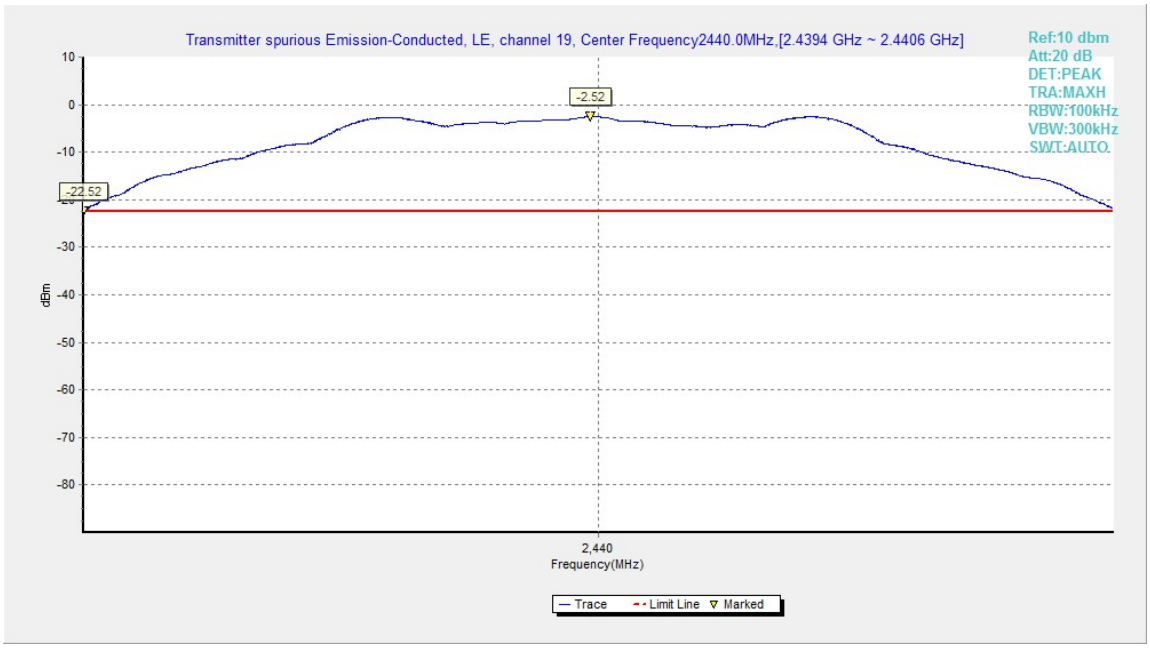


Fig.8. Transmitter Spurious Emission -Conducted: GFSK, 2440MHz

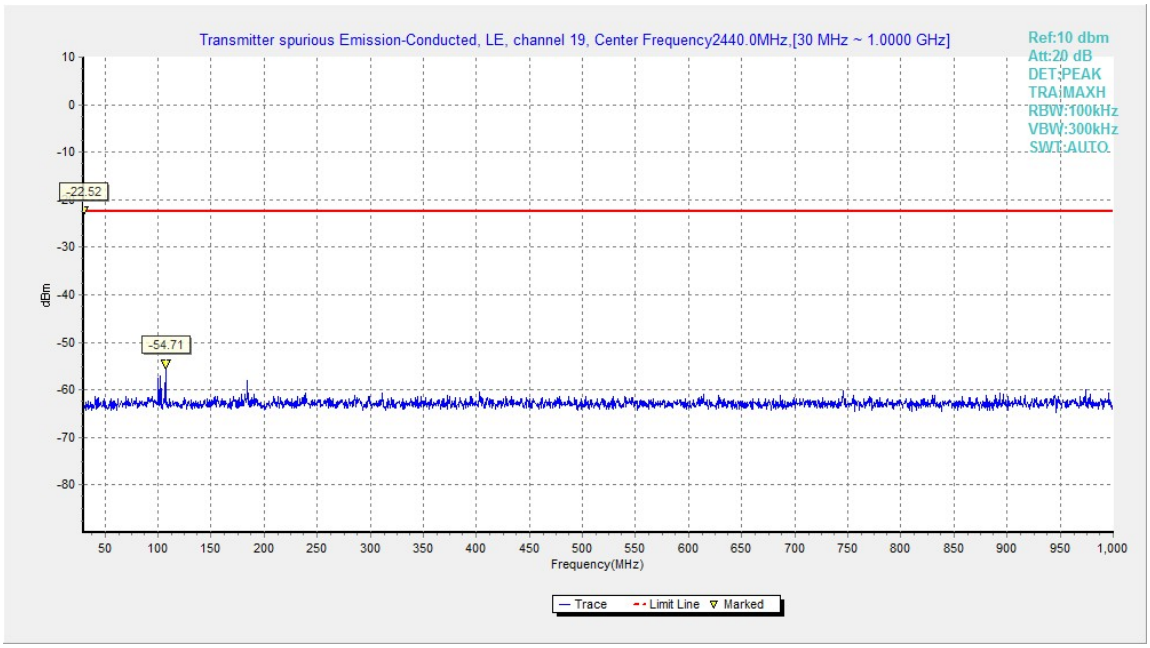


Fig.9. Transmitter Spurious Emission -Conducted: GFSK, 2440 MHz, 30MHz - 1GHz

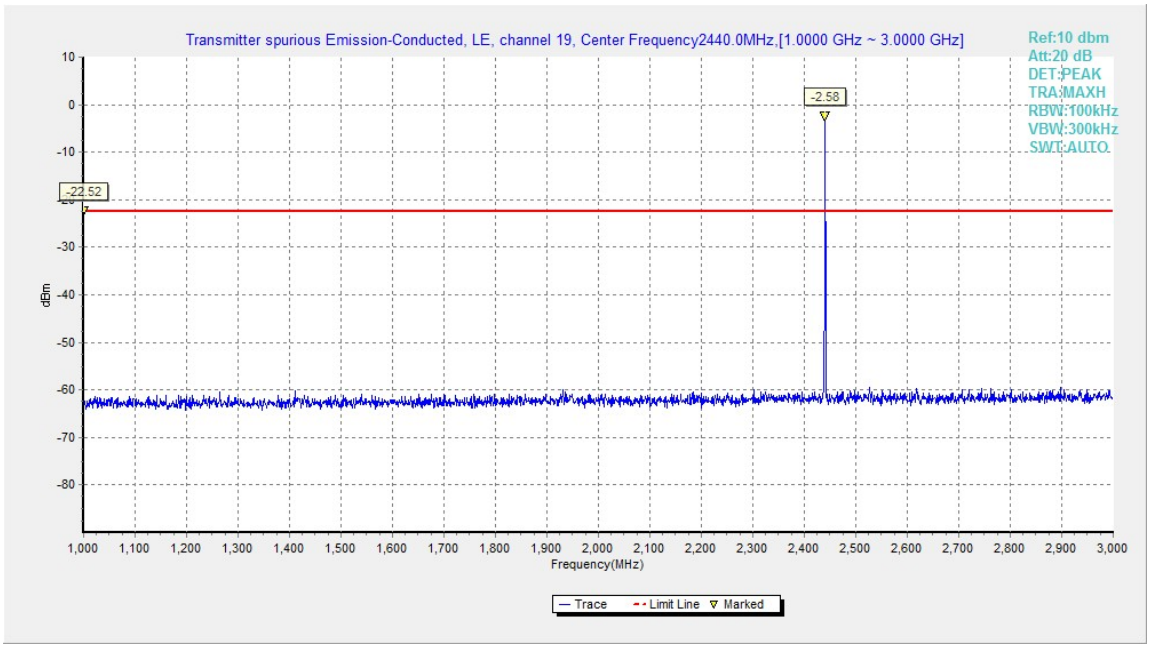


Fig.10. Transmitter Spurious Emission -Conducted: GFSK, 2440 MHz, 1GHz – 3GHz

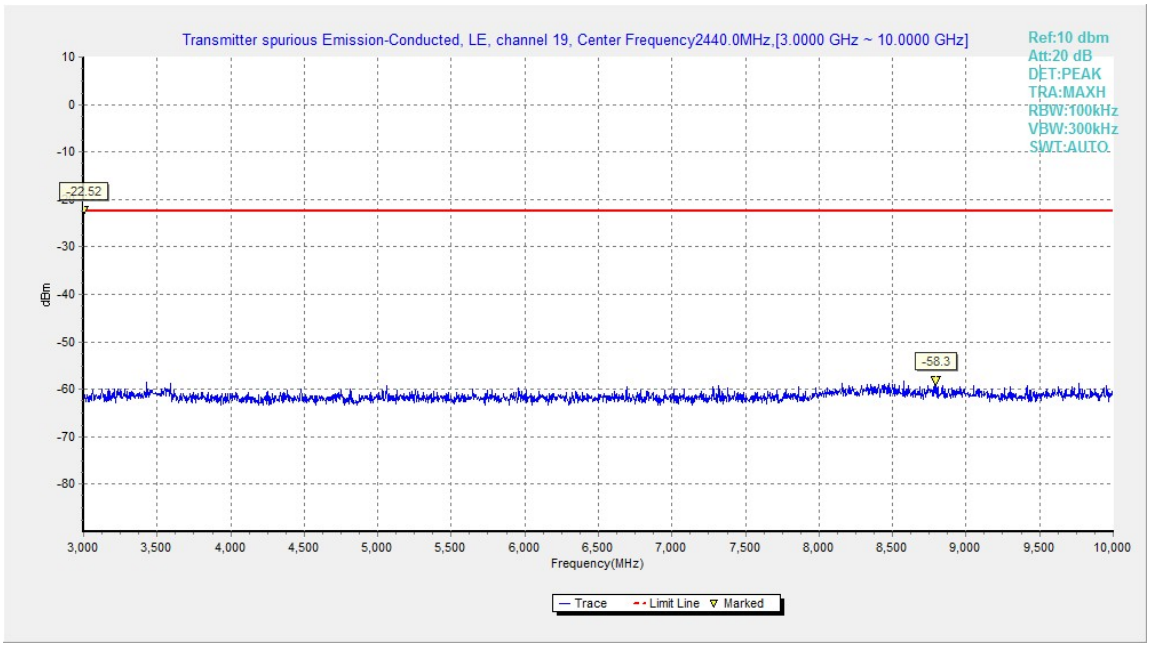


Fig.11. Transmitter Spurious Emission -Conducted: GFSK, 2440 MHz, 3GHz – 10GHz

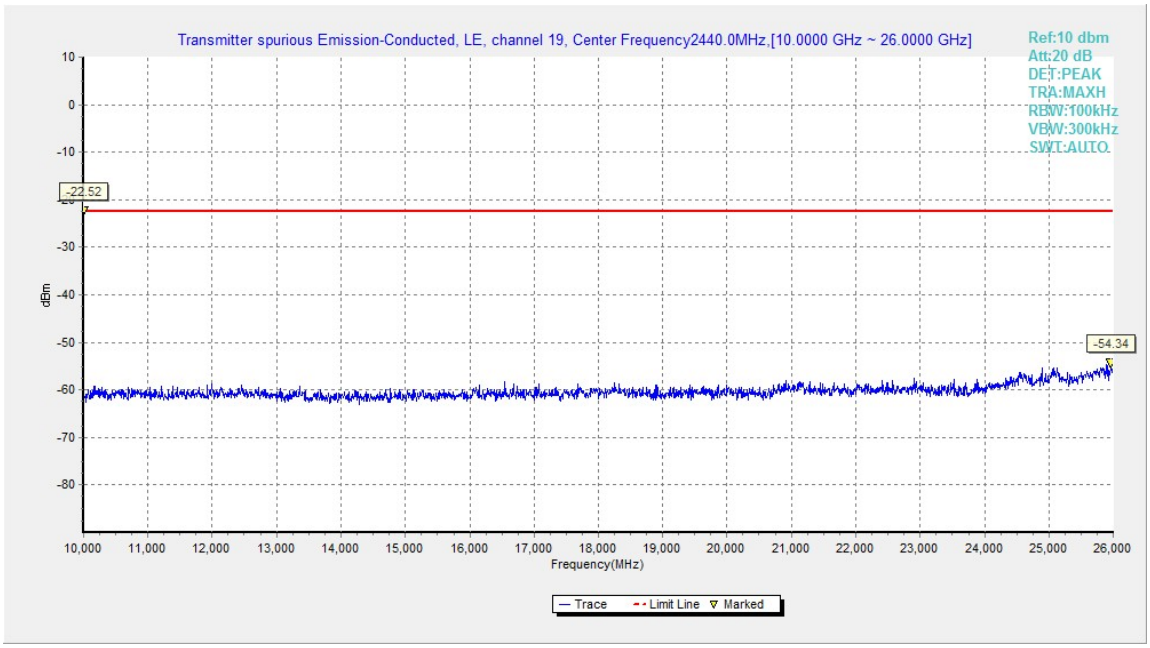


Fig.12. Transmitter Spurious Emission -Conducted: GFSK, 2440 MHz, 10GHz – 26GHz

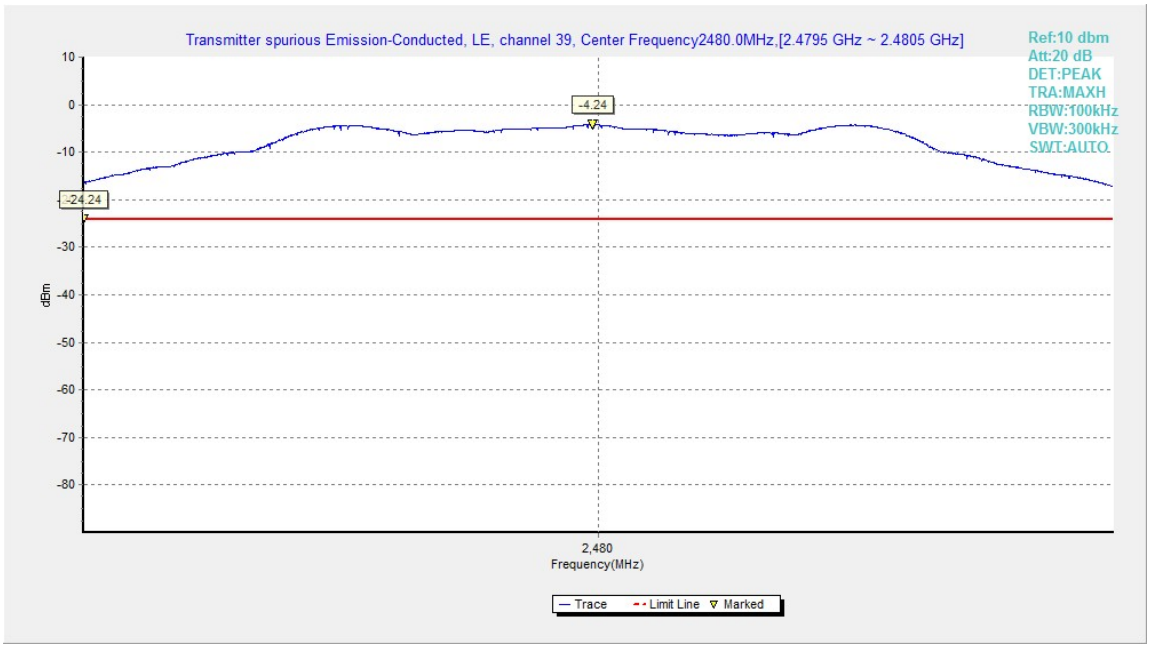


Fig.13. Transmitter Spurious Emission -Conducted: GFSK, 2480 MHz

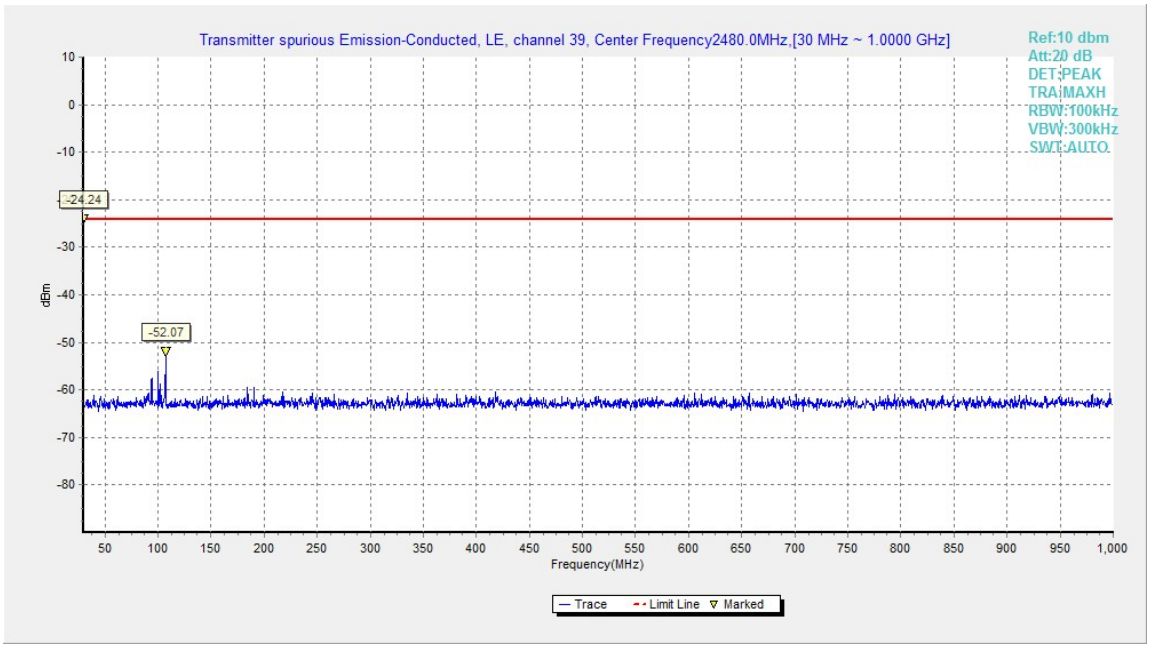


Fig.14. Transmitter Spurious Emission -Conducted: GFSK, 2480 MHz, 30MHz - 1GHz

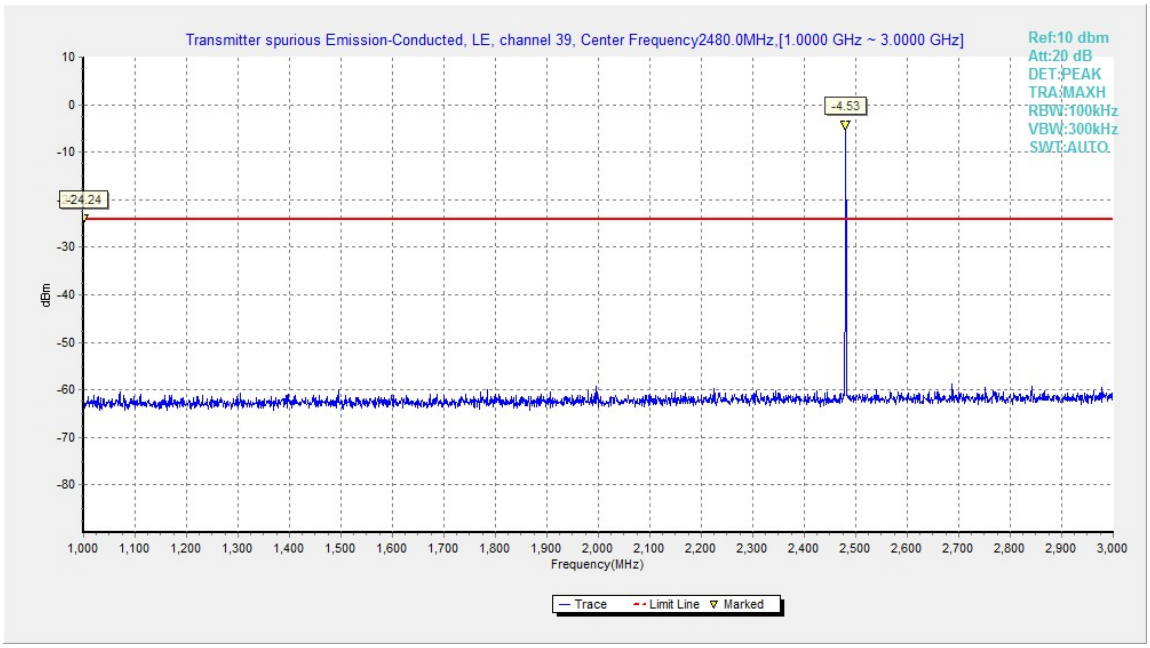


Fig.15. Transmitter Spurious Emission -Conducted: GFSK, 2480 MHz, 1GHz - 3GHz

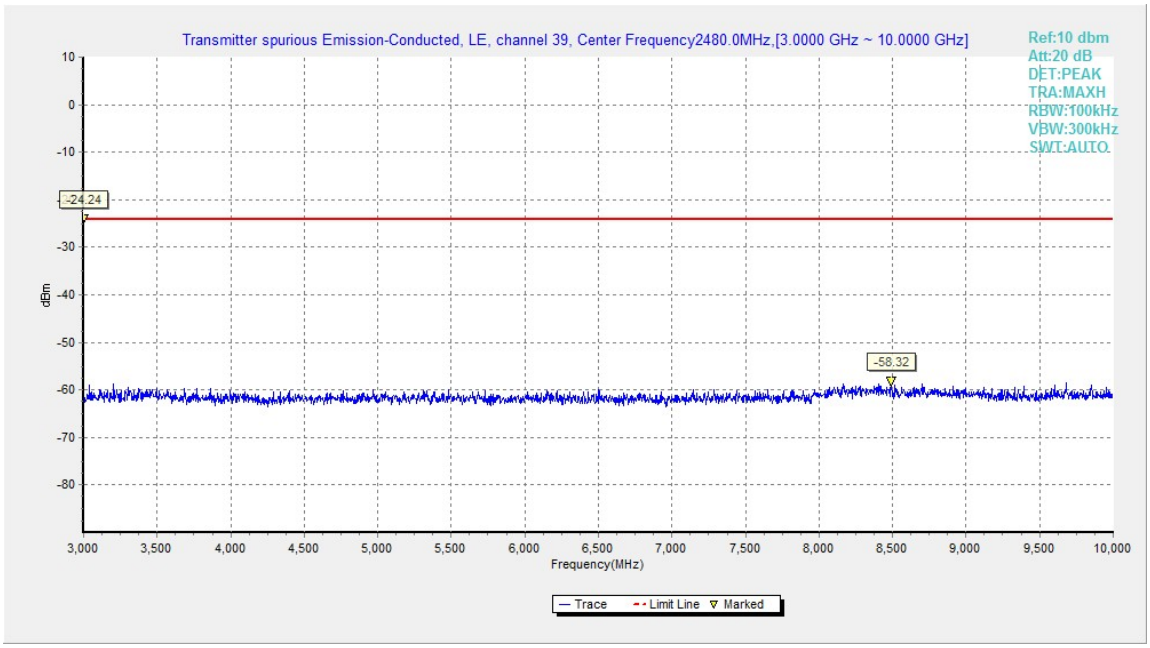


Fig.16. Transmitter Spurious Emission -Conducted:GFSK, 2480 MHz,3GHz - 10GHz

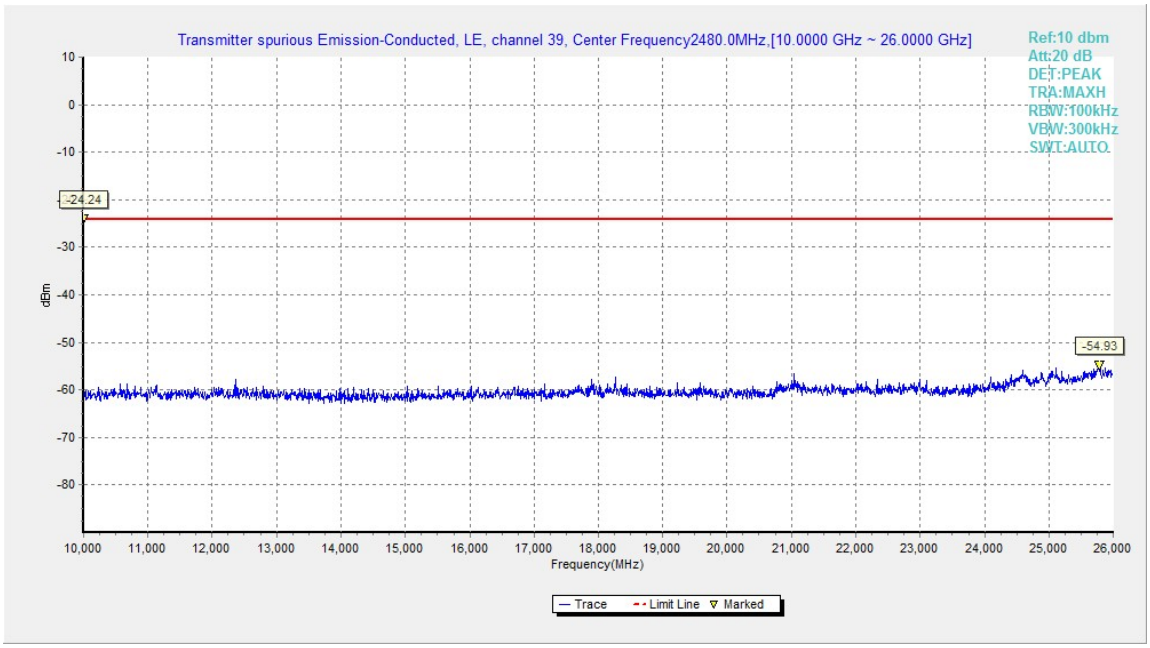


Fig.17. Transmitter Spurious Emission -Conducted: GFSK, 2480 MHz, 10GHz - 26GHz

A.5. Transmitter Spurious Emission - Radiated

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247, 15.205, 15.209	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)).

The measurement is made according to ANSI C63.10

Limit in restricted band:

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

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	100KHz/300KHz	5
1000-4000	1MHz/1MHz	15
4000-18000	1MHz/1MHz	40
18000-26500	1MHz/1MHz	20

Measurement Results:

A "reference path loss" is established and the A_{Rpl} is the attenuation of “reference path loss”, and including the gain of receive antenna, the gain of the preamplifier, the cable los.

The measurement results are obtained as described below:

$Result=P_{Mea}+A_{Rpl}$

For GFSK

Frequency	Frequency Range	Test Results	Conclusion
Power	2.38GHz~2.4GHz---L	Fig.18	P
Power	2.45GHz~2.5GHz---H	Fig.19	P

GFSK 2402MHz–Average

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver eading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
2386.800	46.3	2.9	32.0	11.40	54.0	7.7	V
2388.000	46.2	2.9	32.0	11.39	54.0	7.8	H
4804.500	28.5	-32.8	34.5	26.87	54.0	25.5	V
7206.000	30.6	-31.6	36.1	26.15	54.0	23.4	V
9607.500	33.1	-30.0	37.0	26.14	54.0	20.9	H
12010.500	35.5	-29.8	39.3	25.99	54.0	18.5	H

GFSK 2440MHz–Average

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver eading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
2375.100	46.4	2.9	32.1	11.45	54.0	7.6	H
2515.700	46.6	3.0	32.6	11.09	54.0	7.4	V
4882.500	29.0	-32.7	34.5	27.26	54.0	25.0	H
7323.000	30.5	-31.9	36.1	26.33	54.0	23.5	V
9763.500	32.9	-30.6	37.2	26.30	54.0	21.1	V
12205.500	35.3	-29.4	39.2	25.54	54.0	18.7	H

GFSK 2480MHz–Average

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver eading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
2484.300	47.1	2.9	32.7	11.39	54.0	6.9	H
2489.600	46.9	2.9	32.6	11.41	54.0	7.1	V
4960.500	28.1	-33.4	34.5	27.02	54.0	25.9	V
7440.000	30.5	-31.8	36.0	26.24	54.0	23.5	H
9919.500	34.1	-29.9	37.4	26.61	54.0	19.9	V
12400.500	34.9	-29.5	39.1	25.23	54.0	19.1	H

GFSK 2402MHz–Peak

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver eading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
2384.984	59.3	2.9	32.0	24.39	74.0	14.7	V
2385.684	59.3	2.9	32.0	24.41	74.0	14.7	H
4803.750	38.2	-32.9	34.5	36.59	74.0	35.8	V
7206.000	42.0	-31.6	36.1	37.57	74.0	32.0	V
9608.250	44.5	-30.0	37.0	37.51	74.0	29.5	H
12009.750	46.0	-29.8	39.3	36.51	74.0	28.0	H

GFSK 2440MHz–Peak

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver eading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
2376.200	49.8	-26.6	32.1	44.32	74.0	24.2	H
2530.200	51.0	-26.8	32.8	45.01	74.0	23.0	V
4881.750	39.8	-32.7	34.5	38.03	74.0	34.2	H
7323.000	41.3	-31.9	36.1	37.17	74.0	32.7	H
9764.250	42.8	-30.6	37.2	36.22	74.0	31.2	V
12204.750	46.6	-29.4	39.2	36.76	74.0	27.4	V

GFSK 2480MHz–Peak

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver eading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
2488.080	60.6	2.9	32.6	25.06	74.0	13.4	H
2493.510	60.2	2.9	32.5	24.75	74.0	13.8	V
4959.750	38.3	-33.4	34.5	37.18	74.0	35.7	H
7440.000	41.5	-31.8	36.0	37.23	74.0	32.5	V
9920.250	44.3	-29.9	37.4	36.85	74.0	29.7	H
12399.750	46.8	-29.5	39.1	37.22	74.0	27.2	V

Conclusion: PASS

Test graphs as below:

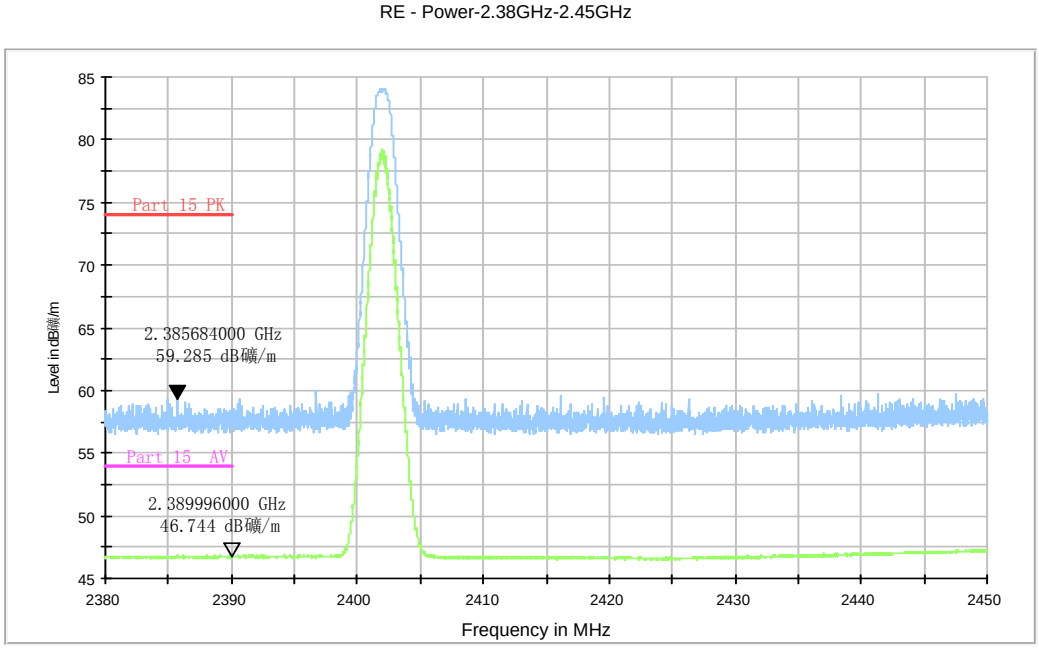


Fig.18. Transmitter Spurious Emission -Radiated (Power): GFSK low channel

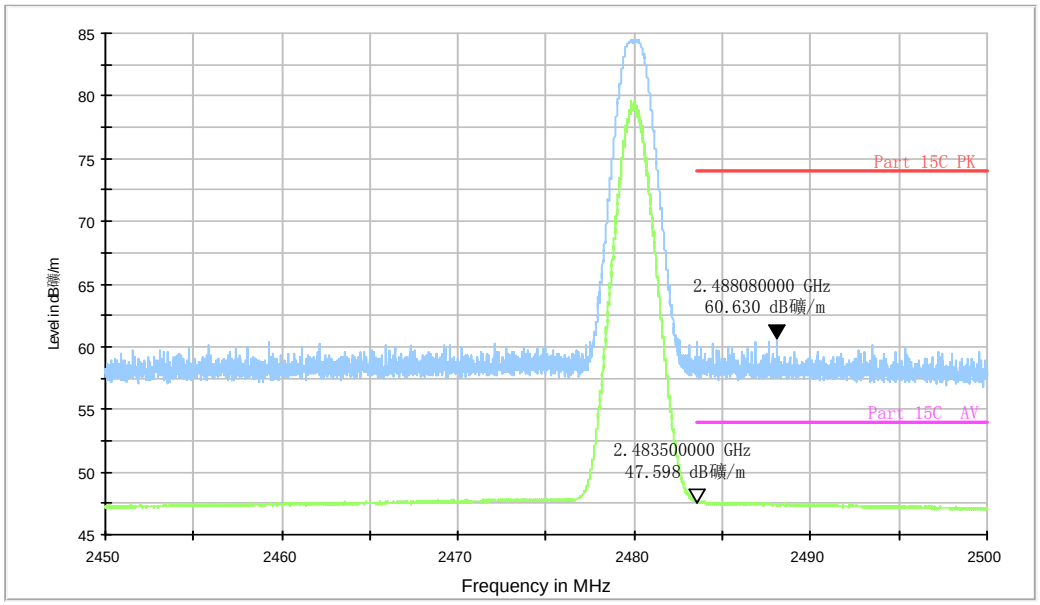


Fig.19. Transmitter Spurious Emission -Radiated (Power): GFSK high channel

A.6. 6dB Bandwidth

Method of Measurement:

The measurement is made according to ANSI C63.10 clause11.8.1
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)	>= 500KHz

Measurement Results:

For GFSK

Channel No.	Frequency (MHz)	6dB Bandwidth (kHz)		Conclusion
0	2402	Fig.20	702.00	P
19	2440	Fig.21	707.00	P
39	2480	Fig.22	704.50	P

Conclusion: PASS

Test graphs as below:

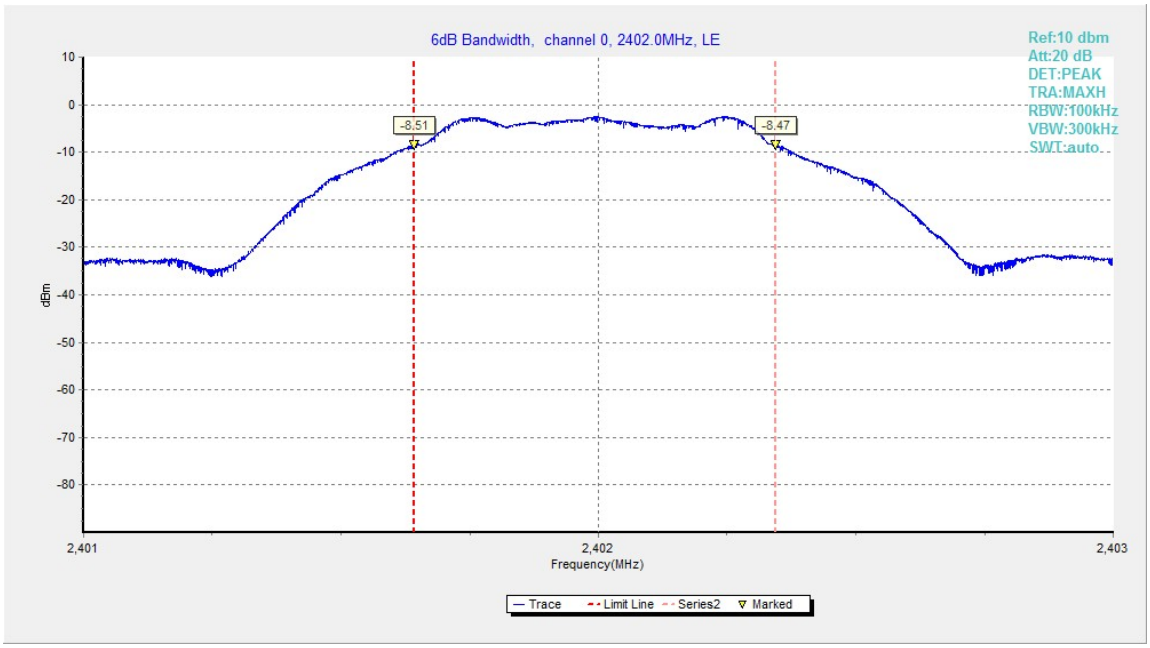


Fig.20. 6dB Bandwidth: GFSK, 2402 MHz

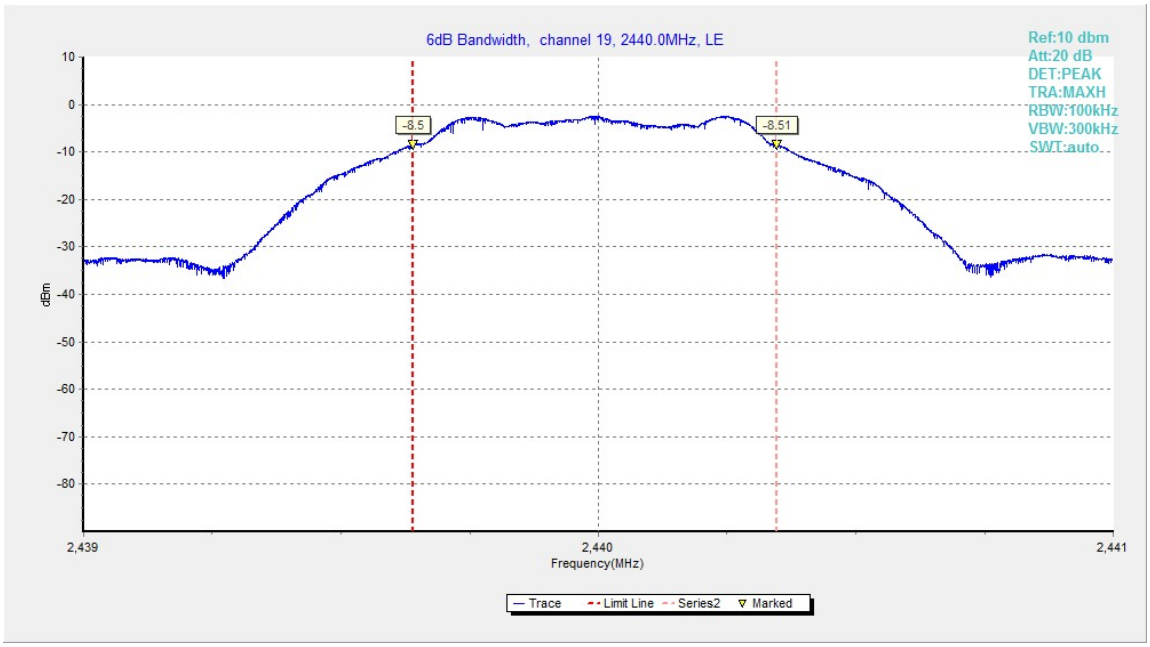


Fig.21. 6dB Bandwidth: GFSK, 2440 MHz

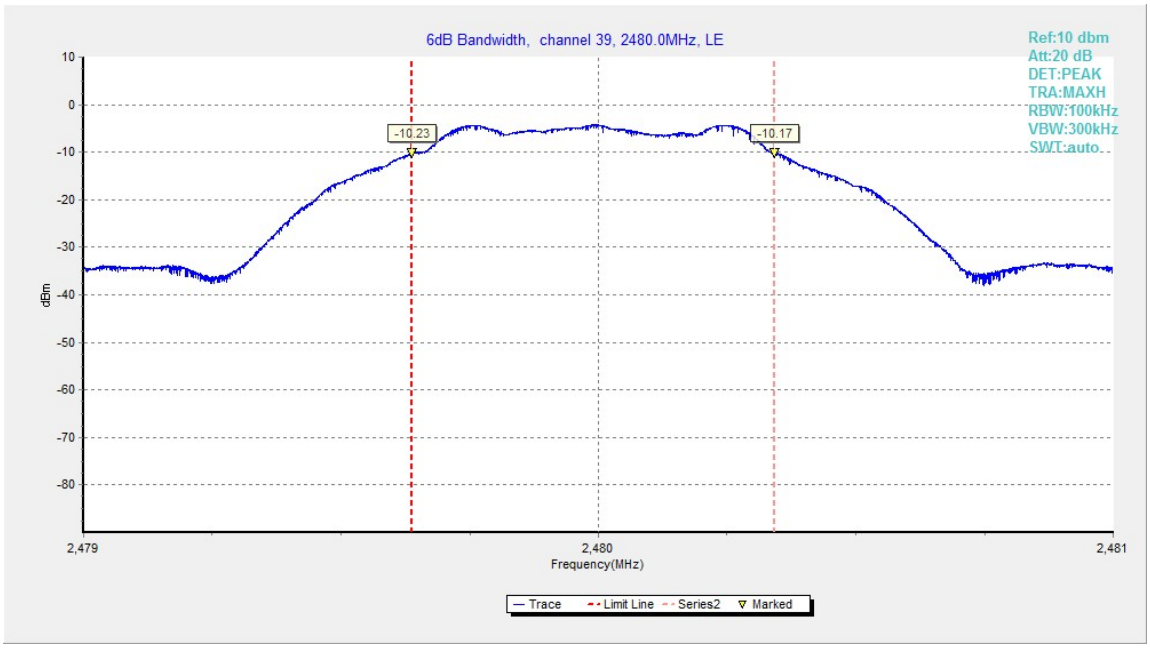


Fig.22. 6dB Bandwidth: GFSK, 2480 MHz

A.7. 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)	<=8.0dBm/3kHz

Measurement Results:

For GFSK

Channel No.	Frequency (MHz)	Maximum Power Spectral Density Level(dBm/3kHz)		Conclusion
0	2402	Fig.23	-17.13	P
19	2440	Fig.24	-17.08	P
39	2480	Fig.25	-18.78	P

Test graphs as below:

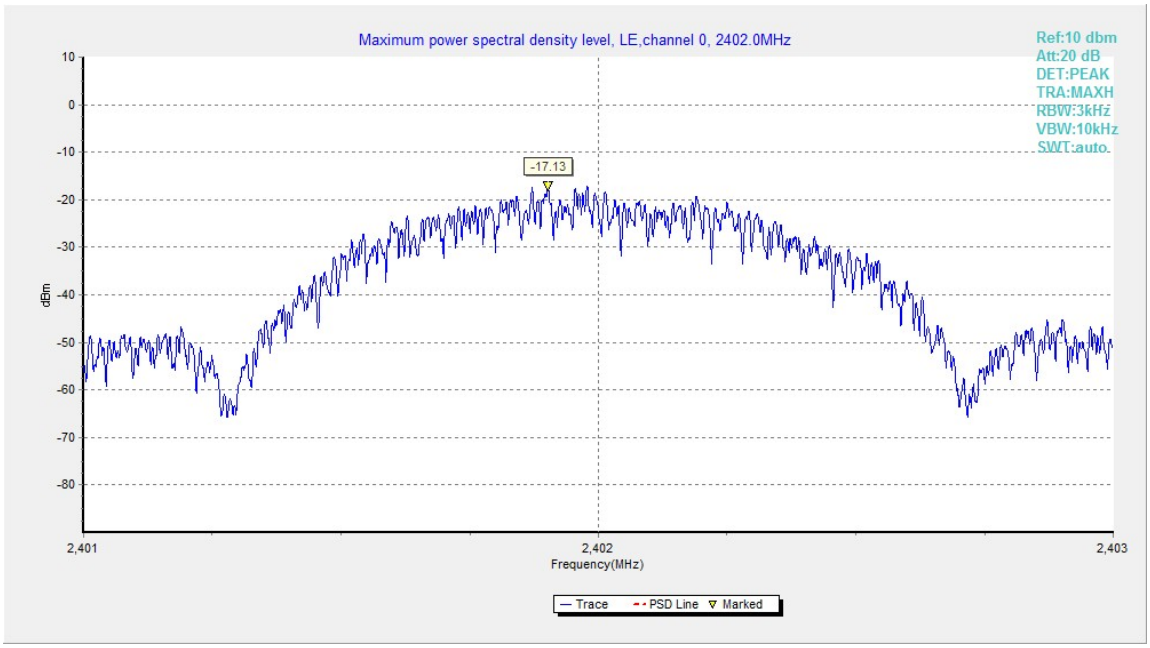


Fig.23. Maximum Power Spectral Density Level Function: GFSK, 2402 MHz

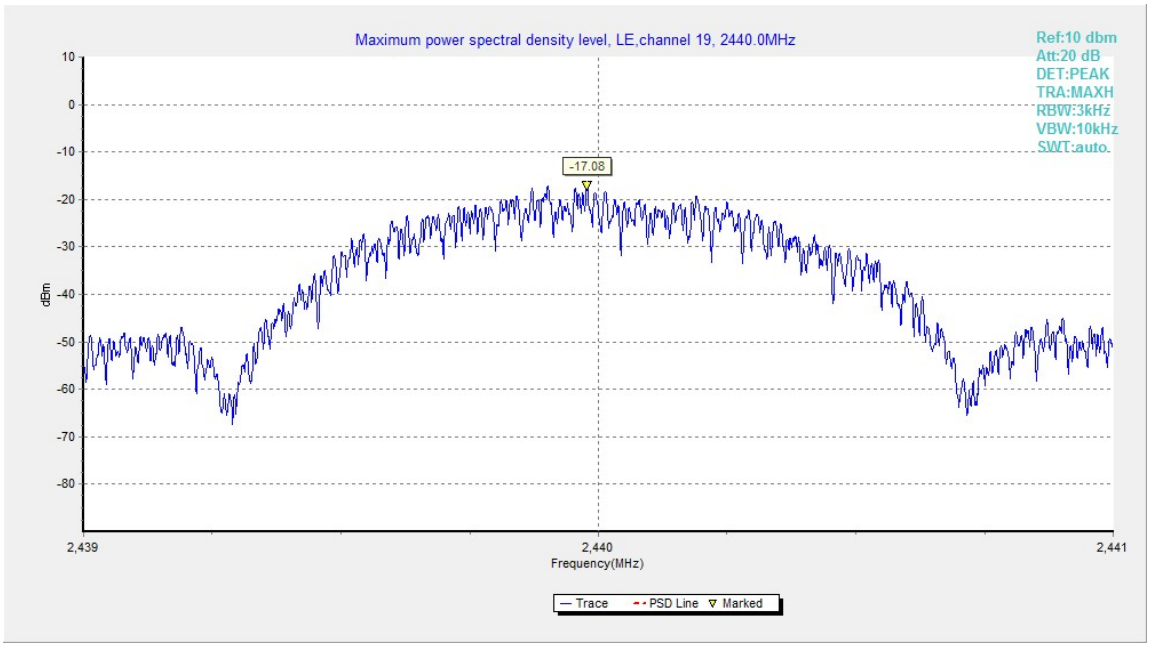


Fig.24. Maximum Power Spectral Density Level Function: GFSK, 2440 MHz

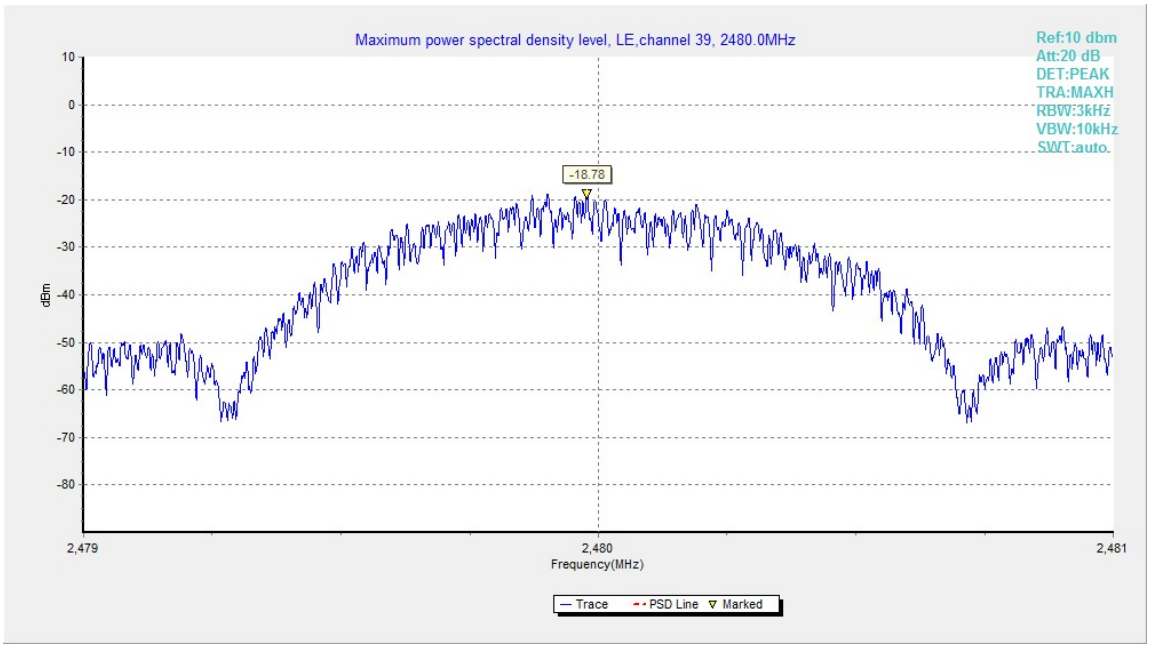


Fig.25. Maximum Power Spectral Density Level Function: GFSK, 2480 MHz

A.8. AC Powerline Conducted Emission

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

1. 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.
2. 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.
3. 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.
4. If the EUT is comprised 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, 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 separately measured. 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.
5. If the EUT uses a detachable antenna, these measurements shall be made with a suitable dummy load connected to the antenna output terminals; otherwise, the tests shall be made with the antenna connected and, if adjustable, fully extended. When measuring the ac conducted emissions from a device that operates between 150 kHz and 30 MHz a non-detachable antenna may be replaced with a dummy load for the measurements within the fundamental emission band of the transmitter, but only for those measurements.36 Record the six highest EUT emissions relative to the limit of each of the current-carrying conductors of the power cords of the equipment that comprises the EUT over the frequency range specified by the procuring or regulatory agency. Diagram or photograph the test setup that was used. See Clause 8 for full reporting requirements.

Test Condition

Voltage（V）	Frequency（Hz）
120	60

Measurement Result and limit:

Bluetooth (Quasi-peak Limit)

Frequency range(MHz)	Quasi-peak Limit (dBμV)	Conclusion
0.15 to 0.5	66 to 56	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)

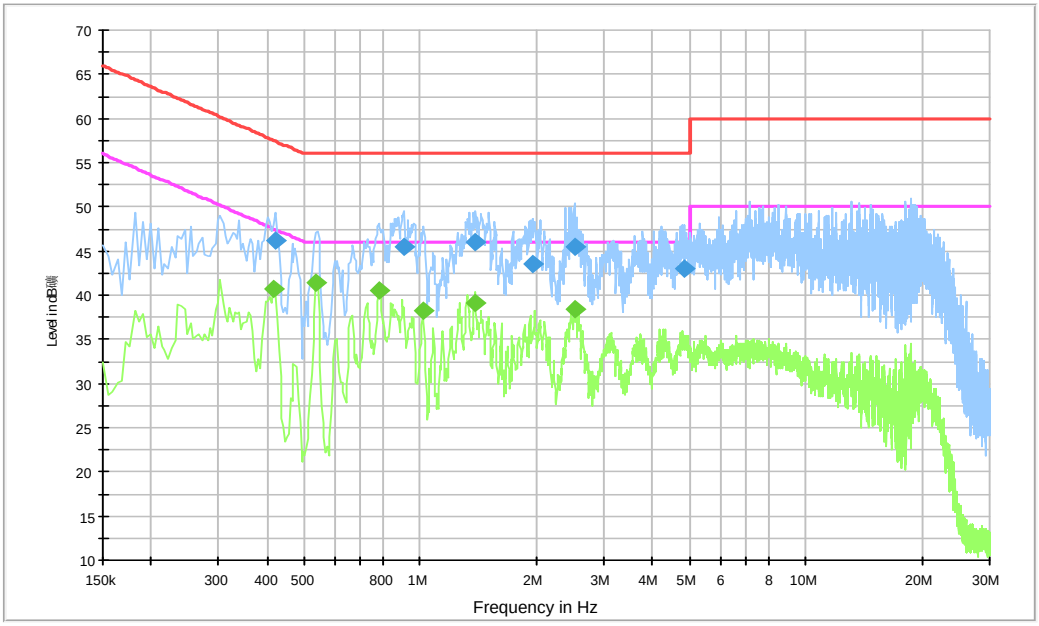
Frequency range (MHz)	Average Limit (dBμV)	Conclusion
0.15 to 0.5	56 to 46	P
0.5 to 5	46	
5 to 30	50	
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.		

The measurement is made according to ANSI C63.10

Conclusion: PASS

Test graphs as below:

Traffic:



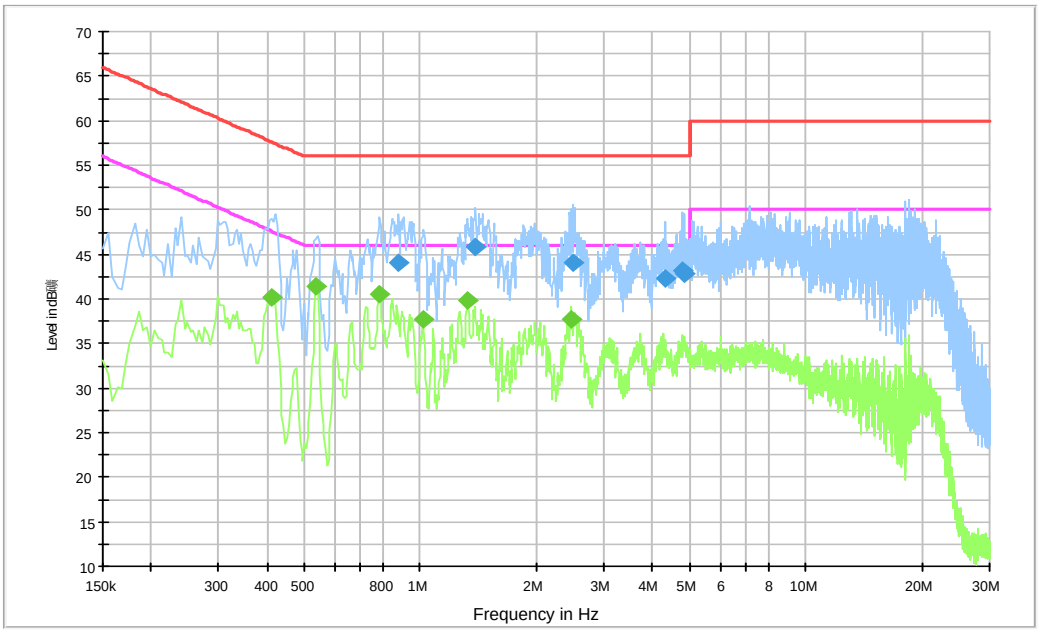
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.420000	46.2	GND	L1	10.2	11.2	57.4
0.906000	45.5	GND	L1	10.2	10.5	56.0
1.392000	46.0	GND	L1	10.2	10.0	56.0
1.963500	43.5	GND	L1	10.3	12.5	56.0
2.508000	45.4	GND	L1	10.3	10.6	56.0
4.857000	43.0	GND	L1	10.4	13.0	56.0

Final Result 2

Frequency (MHz)	Average (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.415500	40.8	GND	L1	10.2	6.8	47.5
0.537000	41.5	GND	L1	10.2	4.5	46.0
0.784500	40.5	GND	L1	10.2	5.5	46.0
1.018500	38.3	GND	L1	10.2	7.7	46.0
1.387500	39.2	GND	L1	10.2	6.8	46.0
2.517000	38.4	GND	L1	10.3	7.6	46.0

Idle:



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.879000	44.1	GND	L1	10.2	11.9	56.0
1.392000	45.8	GND	L1	10.2	10.2	56.0
2.490000	44.1	GND	L1	10.3	11.9	56.0
4.317000	42.3	GND	L1	10.4	13.7	56.0
4.794000	43.2	GND	L1	10.4	12.8	56.0
4.857000	42.8	GND	L1	10.4	13.2	56.0

Final Result 2

Frequency (MHz)	Average (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.411000	40.2	GND	L1	10.2	7.4	47.6
0.537000	41.4	GND	L1	10.2	4.6	46.0
0.784500	40.6	GND	L1	10.2	5.4	46.0
1.018500	37.8	GND	L1	10.2	8.2	46.0
1.324500	39.8	GND	L1	10.2	6.2	46.0
2.458500	37.7	GND	L1	10.3	8.3	46.0

*****END OF REPORT*****