TEST REPORT

APPLICANT	:	GE Lighting
PRODUCT NAME	:	A19 Clife LED lamp
MODEL NAME	:	CLEDA199L2@ LED9D2A19/CL@ (@ Can be followed by additional letters/numbers which indicate Packaging)
BRAND NAME	:	GE
FCC ID	:	PUU-A19-SW-IIT
STANDARD(S)	:	47 CFR Part 15 Subpart C
RECEIPT DATE	:	2019-09-12
TEST DATE	:	2019-09-23 ~ 2019-09-30
ISSUE DATE	:	2019-11-05

Edited by: Elvis (Project Engineer)

Approved by: Anne Liu(Supervisor)

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DIRECTORY

Change History		
Version	**Date**	**Reason for change**
1.0	2019-11-05	First edition

1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	GE Lighting
Applicant Address:	1975 Noble Road, Cleveland, Ohio, United States
Manufacturer:	LEEDARSON LIGHTING CO., LTD.
Manufacturer Address:	Xingtai Industrial Zone, Economic Development Zone, Changtai County, Zhangzhou city, Fujian Province, P.R.China

1.2. Equipment Under Test (EUT) Description

Product Name:	A19 Clife LED lamp
Serial No:	(N/A, marked #1 by test site)
Model Name:	CLEDA199L2@ LED9D2A19/CL@ (@ Can be followed by additional letters/numbers which indicate Packaging)
Tested Model Name:	CLEDA199L2@
Hardware Version:	V2.0
Software Version:	N/A
Modulation Type:	GFSK
Operating Frequency Range:	2402MHz - 2480MHz (40 channels, at intervals of 2MHz);
Bluetooth Version:	Bluetooth 5.0 LE
Bluetooth Specification:	Bluetooth 5.0 Single mode
Antenna Type:	Integral Antenna
Antenna Gain:	0dBi

Note 1: The EUT contains Bluetooth Module operating at 2.4GHz ISM band; the frequencies is F(MHz)=2402+2*n (0<=n<=39). The lowest, middle, highest channel numbers of the Bluetooth Module used and tested in this report are separately 0 (2402MHz), 19 (2440MHz) and 39 (2480MHz).

Note 2: Bluetooth 5.0 LE support 1M PHY

Note 3: The EUT connected to the serial port of the computer with a serial communication cable, we use the dedicated software to control the EUT continuous transmission.

Note 4: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

1.3. Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart C (Bluetooth, 2.4GHz ISM band radiators) for the EUT FCC ID Certification:

No	Identity	Document Title
1	47 CFR Part 15	Radio Frequency Devices

Test detailed items/section required by FCC rules and results are as below:

No.	Section	Description	Test Date	Test Engineer	Result	Method determination /Remark
1	15.203	Antenna Requirement	N/A	N/A	**PASS**	No deviation
2	15.247(b)	Peak Output Power	Nov 05, 2019	Elvis	**PASS**	No deviation
3	15.247(a)	Bandwidth	Sep 30, 2019	Elvis	**PASS**	No deviation
4	15.247(d)	ConductedSpuriousEmission and Band Edge	Nov 05, 2019	Elvis	**PASS**	No deviation
5	15.247(e)	Power spectral density (PSD)	Nov 05, 2019	Elvis	**PASS**	No deviation
6	15.247(d)	Restricted Frequency Bands	Sep 30, 2019	Qijie Xiao	**PASS**	No deviation
7	15.207	Conducted Emission	Sep 27, 2019	Qijie Xiao	**PASS**	No deviation
8	15.209, 15.247(d)	Radiated Emission	Sep 29, 2019 Sep 30, 2019	Qijie Xiao	**PASS**	No deviation

Note: The tests were performed according to the method of measurements prescribed in ANSIC63.10-2013 and KDB558074 D01 v04 (04/05/2017).

1.4. Environmental Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15 - 35
Relative Humidity (%):	30 - 60
Atmospheric Pressure (kPa):	86 - 106

2. 47 CFR Part 15C Requirements

2.1. Antenna requirement

2.1.1. Applicable Standard

According to FCC 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.

2.1.2. Result: Compliant

The EUT has a permanently and irreplaceable attached antenna. Please refer to the EUT internal photos.

2.2. Peak Output Power

2.2.1. Requirement

According to FCC section 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: The maximum peak conducted output power of the intentional radiator shall not exceed 1 Watt.

2.2.2. Test Description

The measure output power was calculated by the reading of the spectrum

A. Test Setup:

The EUT (Equipment under the test) is coupled to the Spectrum analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading, all test result in Spectrum analyzer.

B. Equipments List:

Please refer ANNEX B(4).

2.2.3. Test procedure

The measured output power was calculated by the reading of the spectrum analyzer and calibration. Following is the test procedure for Peak Output Power test on the spectrum analyzer:

a) Set analyzer center frequency to channel center frequency.
b) Set the RBW to 3MHz
c) Set VBW to 8MHz
d) Set span to 6MHz
e) Sweep time to auto couple.
f) Detector=peak.
g) Trace mode=max hold.
h) Allow trace to fully stabilize.

i) Use peak marker function to determine the peak amplitude level.

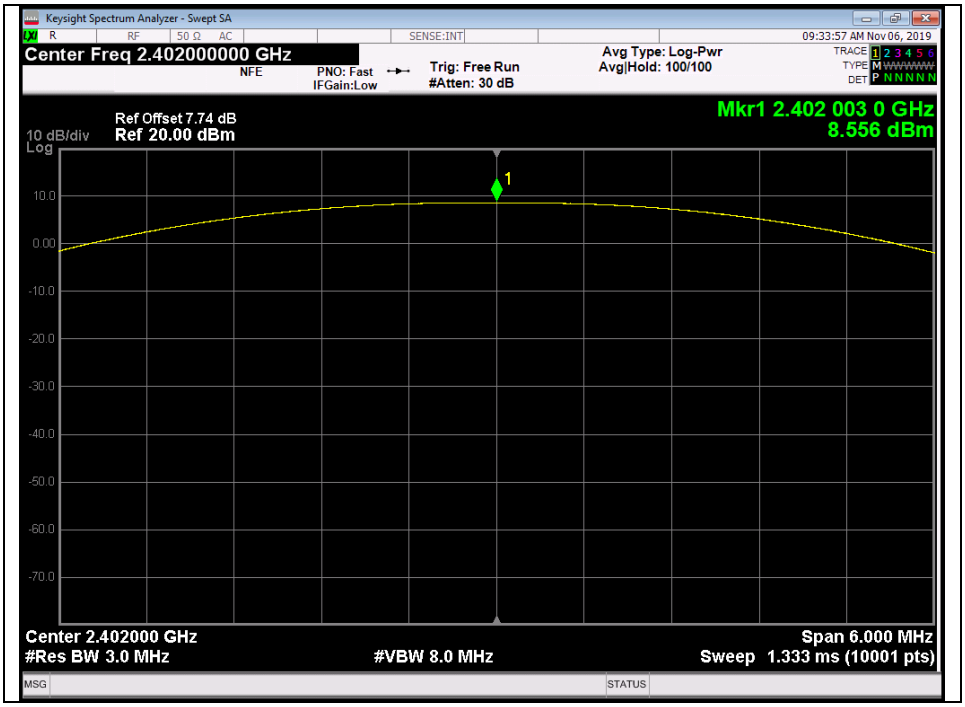
2.2.4. Test Result

The lowest, middle and highest chnnels are selected to perform testing to verify the conducted RF output peak power of the Module.

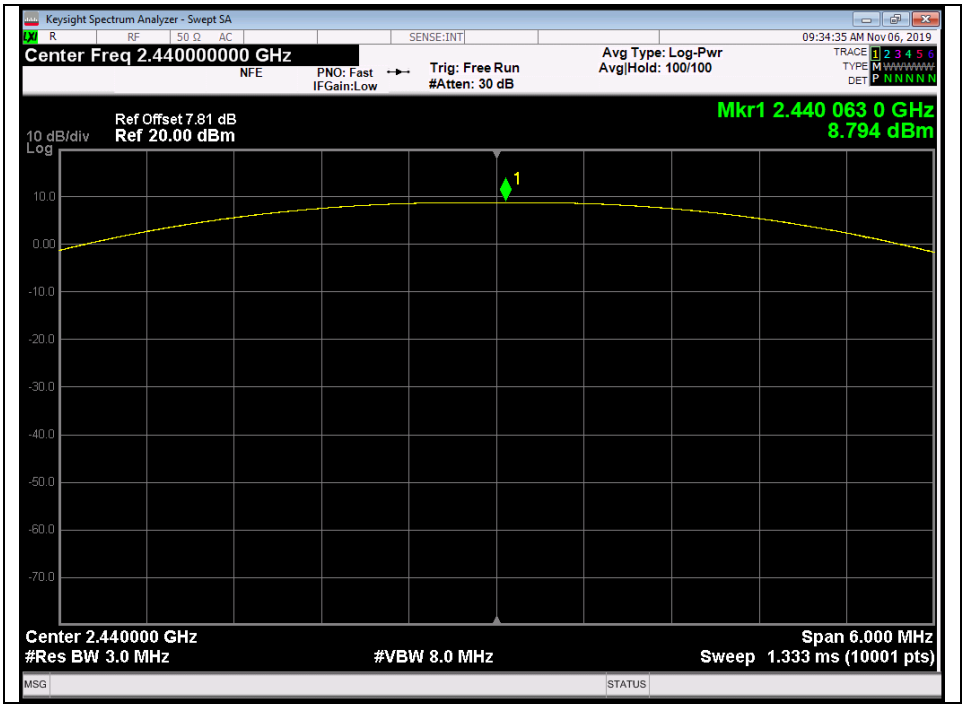
A. Test Verdict:

Mode	Channel	Frequency (MHz)	Measured Output Peak Power		Limit		Verdict
			dBm	W	dBm	W	
1M PHY	0	2402	8.556	0.007	30	1	PASS
	19	2440	8.794	0.007	30	1	PASS
	39	2480	8.596	0.007	30	1	PASS

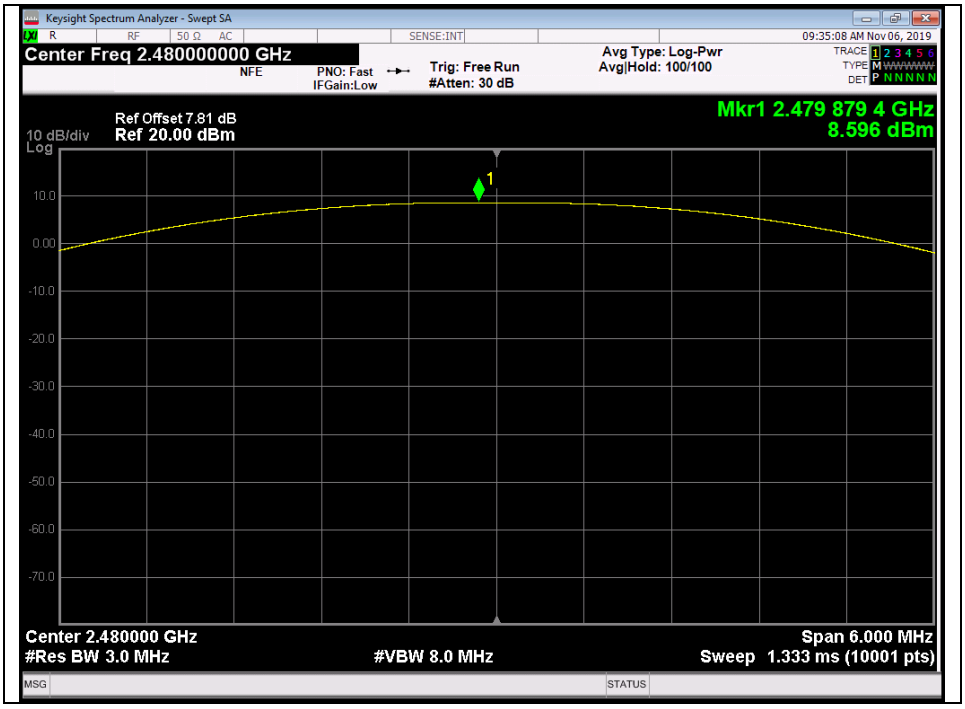
B. Test Plots:



(Bluetooth 5.0 LE 1M PHY Channel 0, 2402MHz)



(Bluetooth 5.0 LE 1M PHY Channel 19, 2440MHz)



(Bluetooth 5.0 LE 1M PHY Channel 39, 2480MHz)

2.3. 6dB Bandwidth

2.3.1. Requirement

According to FCC section 15.247(a) (2), Systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

2.3.2. Test Description

A. Test Set:

The EUT (Equipment under the test) is coupled to the Spectrum analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading, all test result in Spectrum analyzer.

B. Equipments List:

Please refer ANNEX B(4).

2.3.3. Test procedure

The steps for the first option are as follows:

(1) Set analyzer center frequency to channel center frequency.

a) Set RBW=100kHz

b) Set the VBW=300 kHz

c) Detector=peak

d) Trace mode=max hold.

e) Sweep = auto couple

f) Allow trace to fully stabilize.

g) 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.

(2) The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1(i.e. RBW=100 kHz, VBW ≥ 3 X RBW, and peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥6dB.

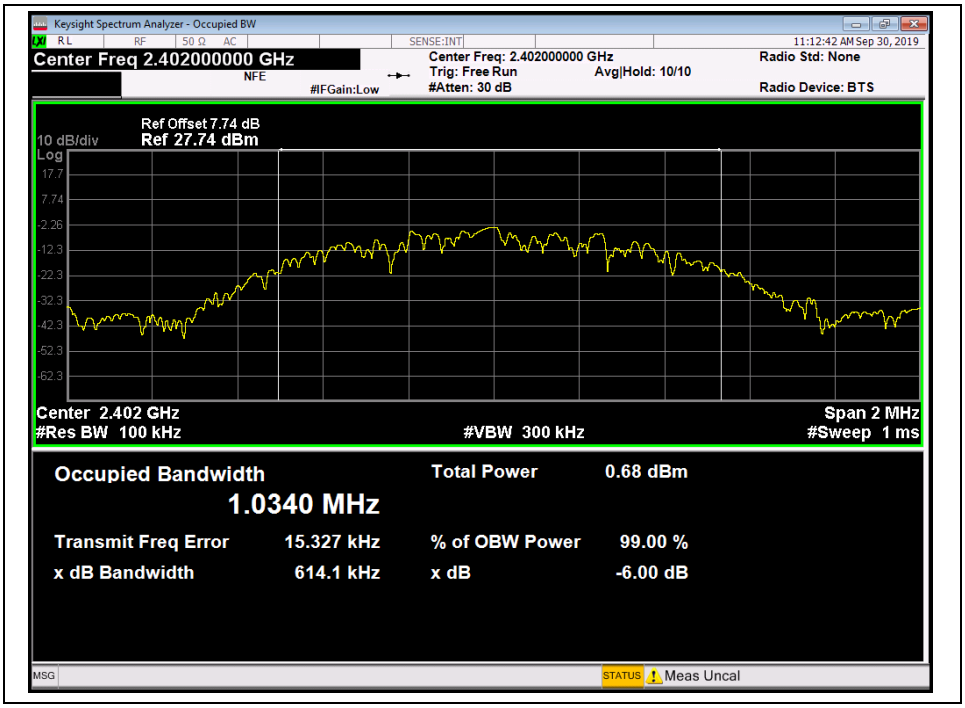
2.3.4. Test Result

The lowest, middle and highest channels are selected to perform testing to record the 6 dB bandwidth of the module.

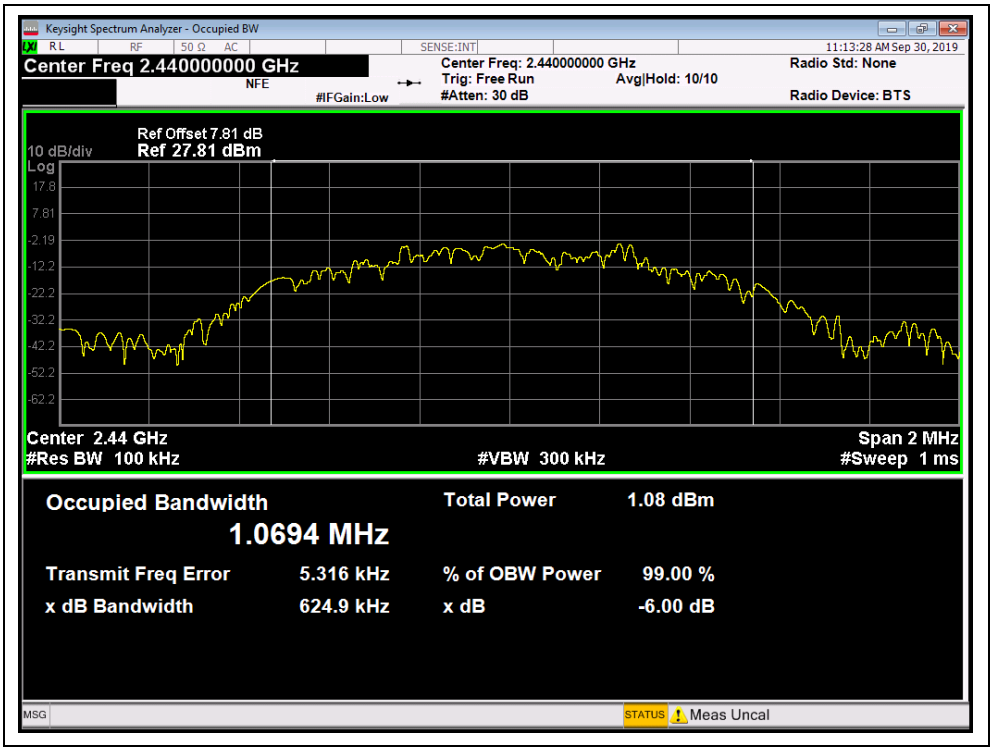
A. Test Verdict:

Mode	Channel	Frequency (MHz)	6 dB Bandwidth (KHz)	Limits(kHz)	Result
1M PHY	0	2402	614.100	≥500	PASS
	19	2440	624.900	≥500	PASS
	39	2480	667.800	≥500	PASS

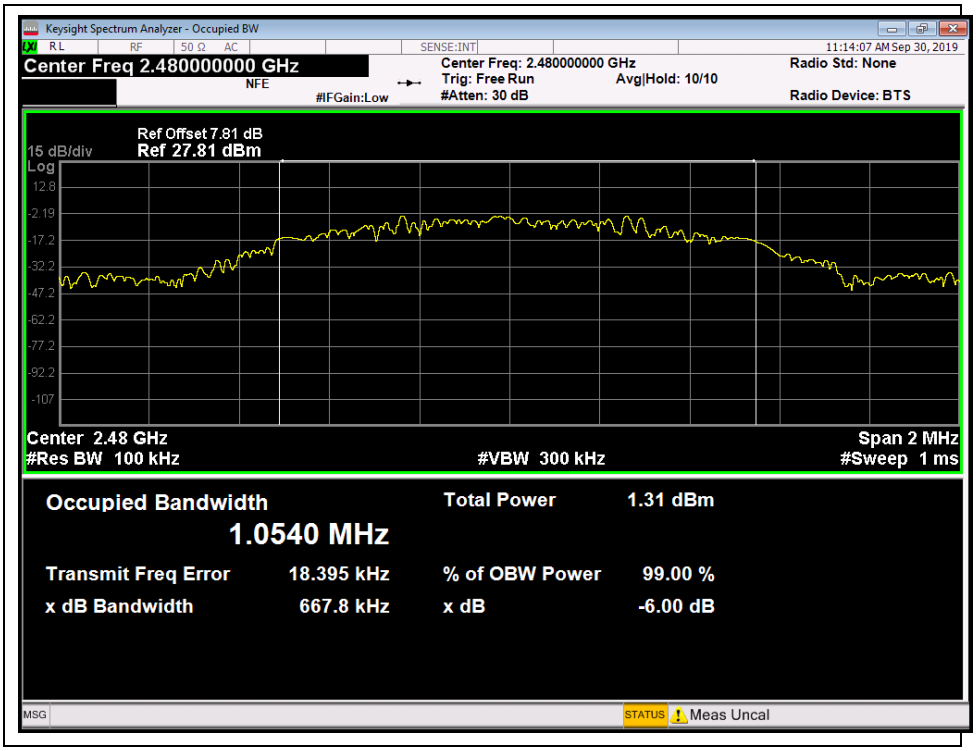
B. Test Plots



(Bluetooth 5.0 LE 1M PHY Channel 0: 2402MHz)



(Bluetooth 5.0 LE 1M PHY Channel 19: 2440 MHz)



(Bluetooth 5.0 LE 1M PHY Channel 39: 2480MHz)

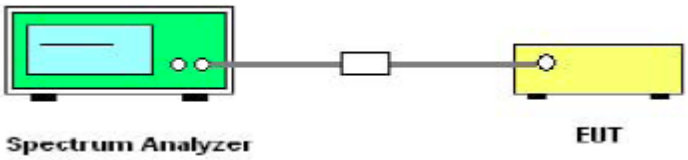
2.4. Conducted Spurious Emissions and Band Edge

2.4.1. Requirement

According to FCC section 15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

2.4.2. Test Description

A. Test Set:



The EUT (Equipment under the test) is coupled to the Spectrum analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading, all test result in Spectrum analyzer.

B. Equipments List:

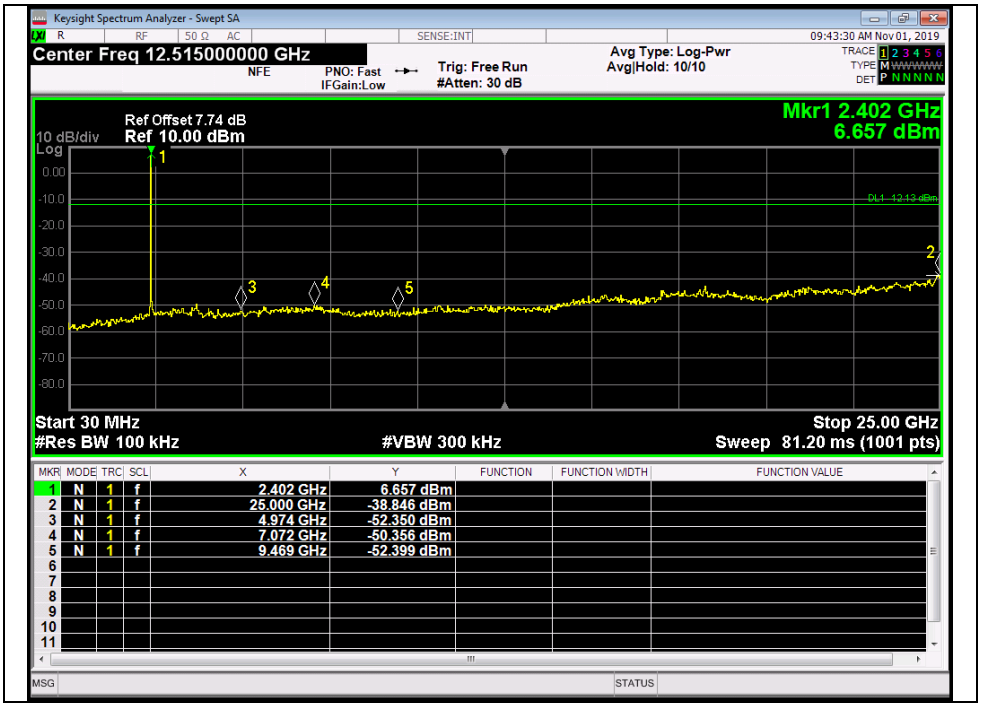
Please refer ANNEX B (4).

2.4.3. Test Result

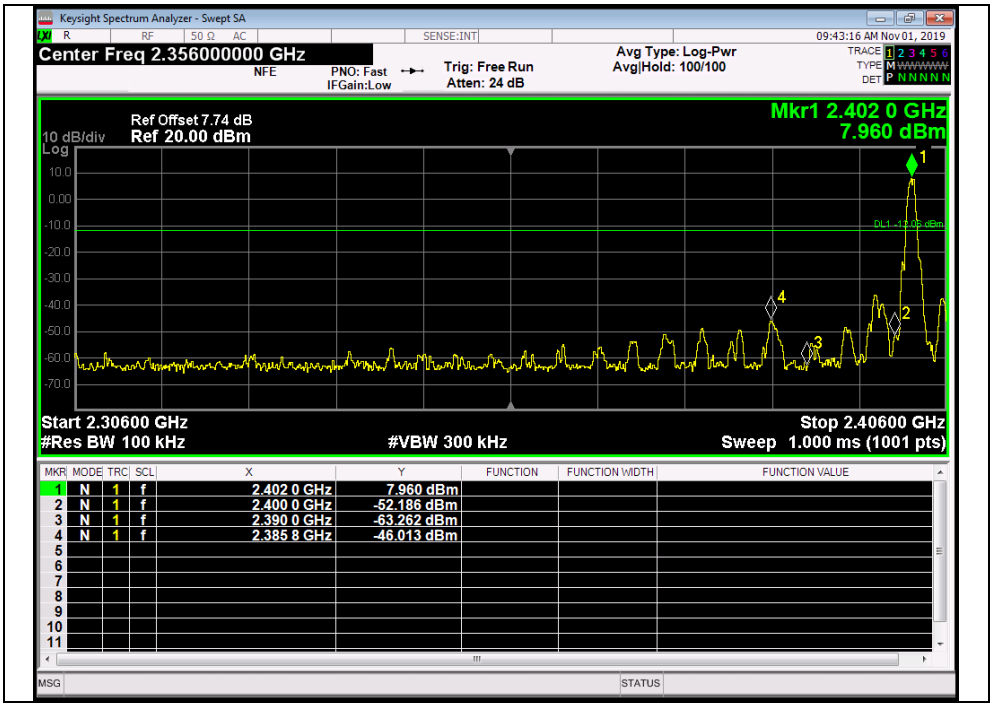
The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions.

A. Test Plots:

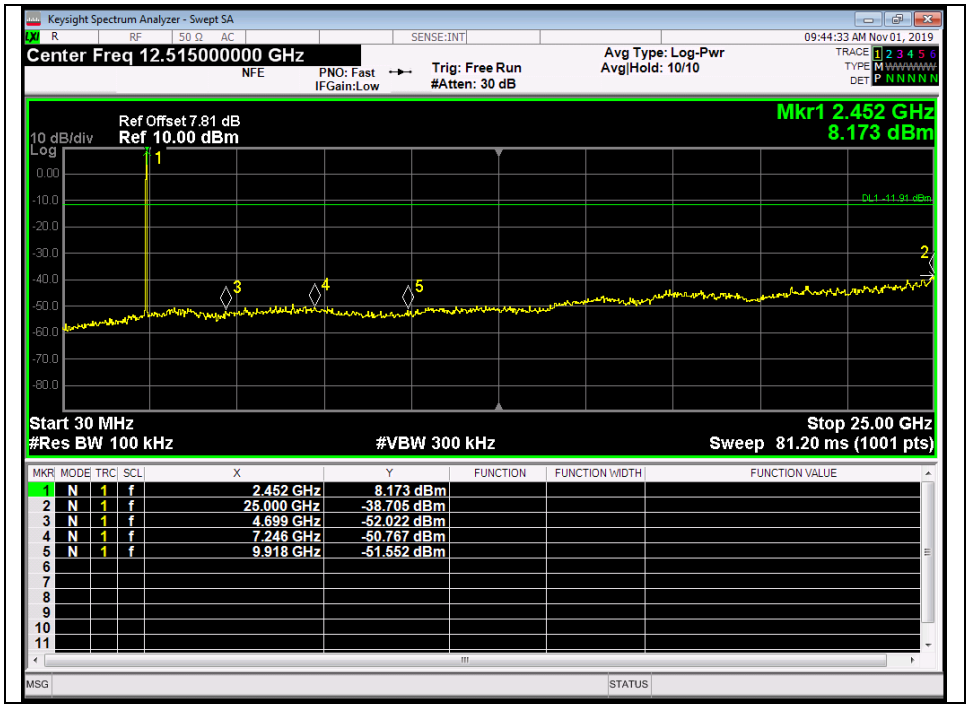
Note: the power of the Module transmitting frequency should be ignored.



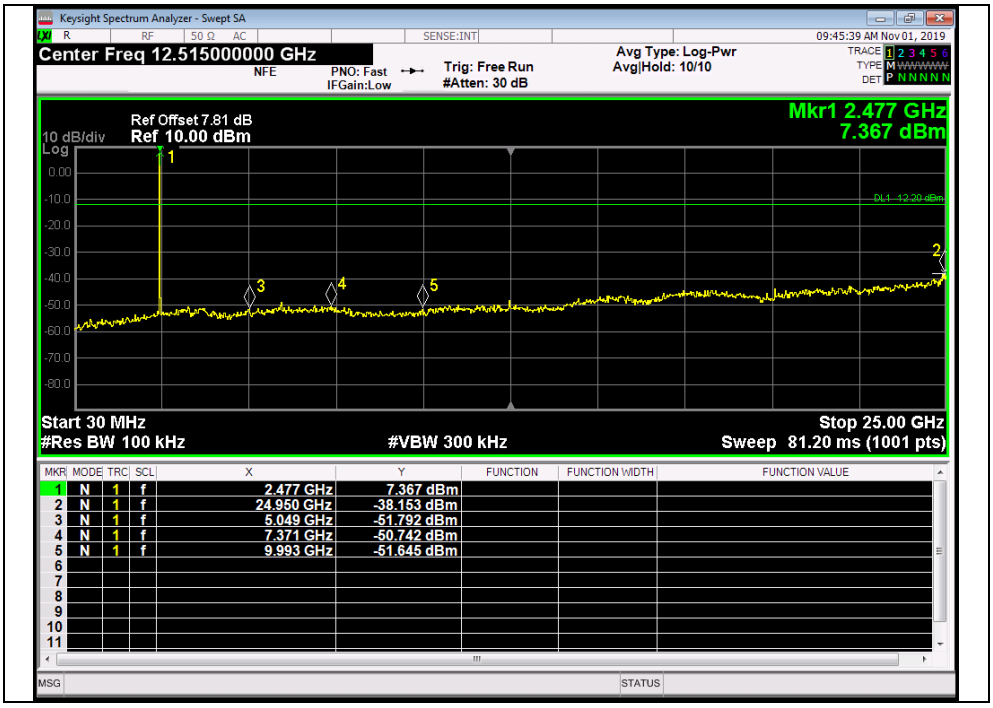
(LE 1M PHY _ Conducted Spurious Emissions _ Channel = 0, 30MHz to 25GHz)



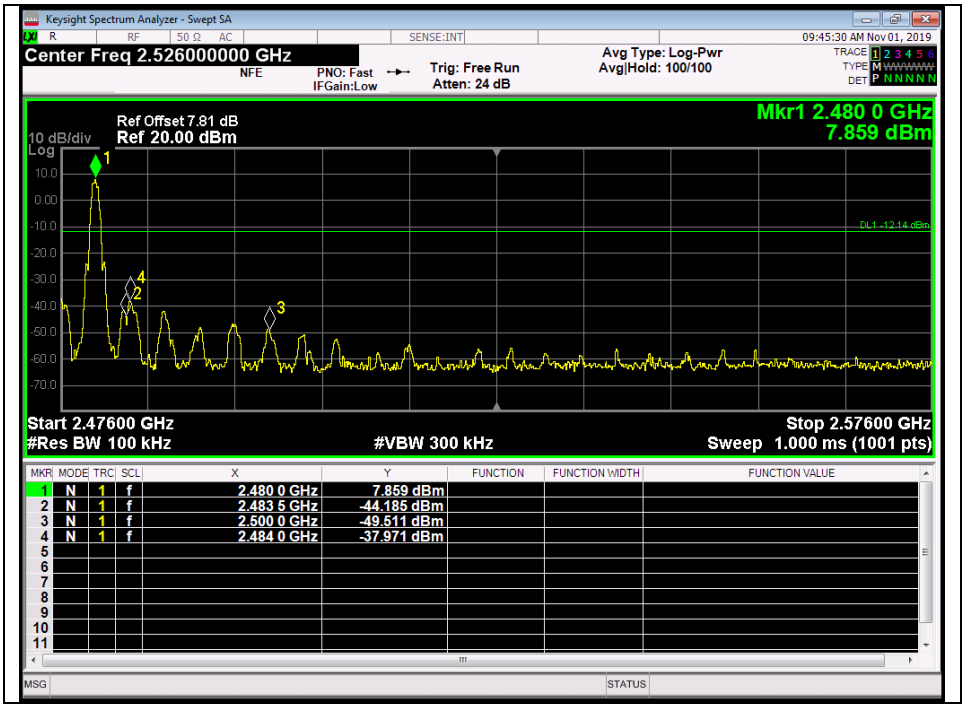
(LE 1M PHY _ Bandedge, Channel = 0)



(LE 1M PHY _ Conducted Spurious Emissions _ Channel = 19, 30MHz to 25GHz)



(LE 1M PHY _ Conducted Spurious Emissions _ Channel = 39, 30MHz to 25GHz)



(LE 1M PHY _ Bandedge, Channel = 39)

2.5. Power spectral density (PSD)

2.5.1. Requirement

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

2.5.2. Test Description

A. Test Set:

The EUT (Equipment under the test) is coupled to the Spectrum analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading, all test result in Spectrum analyzer.

B. Equipments List:

Please refer ANNEX B (4).

2.5.3. Test procedure

The measured power spectral density was calculated by the reading of the spectrum analyzer and calibration. Following is the test procedure for PSD test:

a) Set analyzer center frequency to channel center frequency.
b) Set the span to 1.5 times DTS
c) Set the RBW to 3 kHz
d) Set VBW to 10 kHz
e) Sweep time to auto couple.
f) Detector = peak.
g) Trace mode=max hold.
h) Allow trace to fully stabilize.
i) Use peak marker function to determine the maximum amplitude within the RBW.

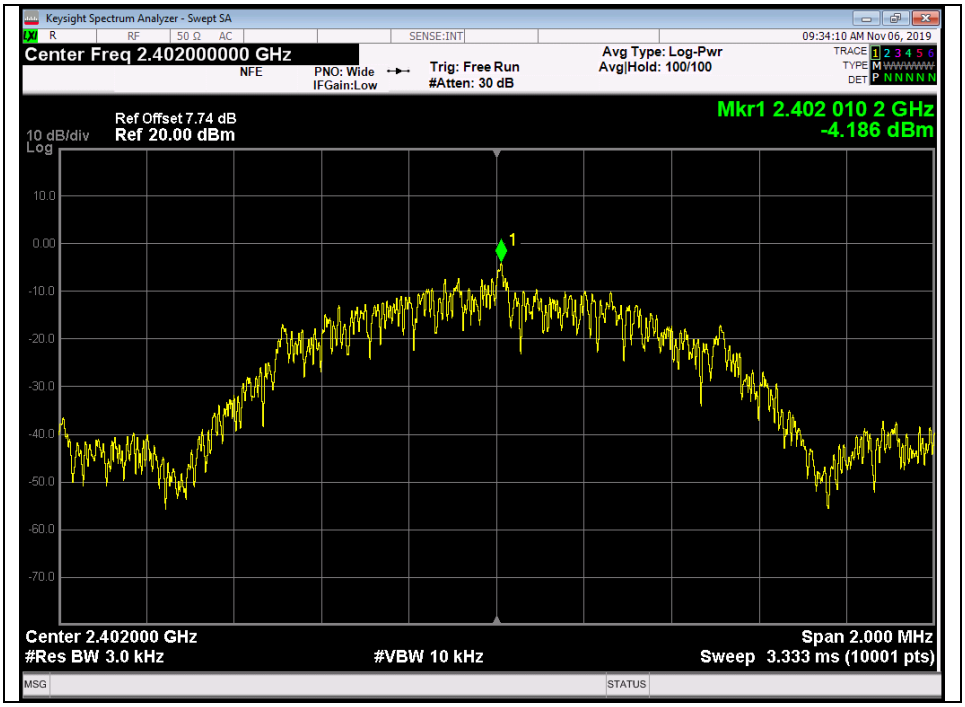
2.5.4. Test Result

The lowest, middle and highest channels are tested.

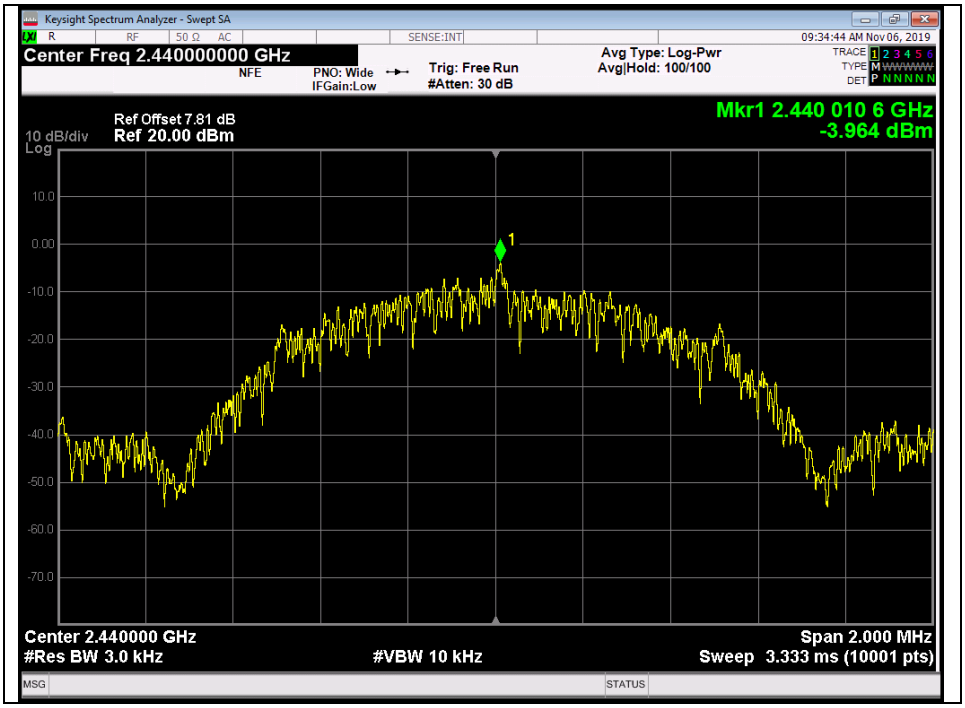
A. Test Verdict:

Mode	Channel	Frequency (MHz)	Measured PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
1M PHY	0	2402	-4.186	8	PASS
	19	2440	-3.964	8	PASS
	39	2480	-4.202	8	PASS

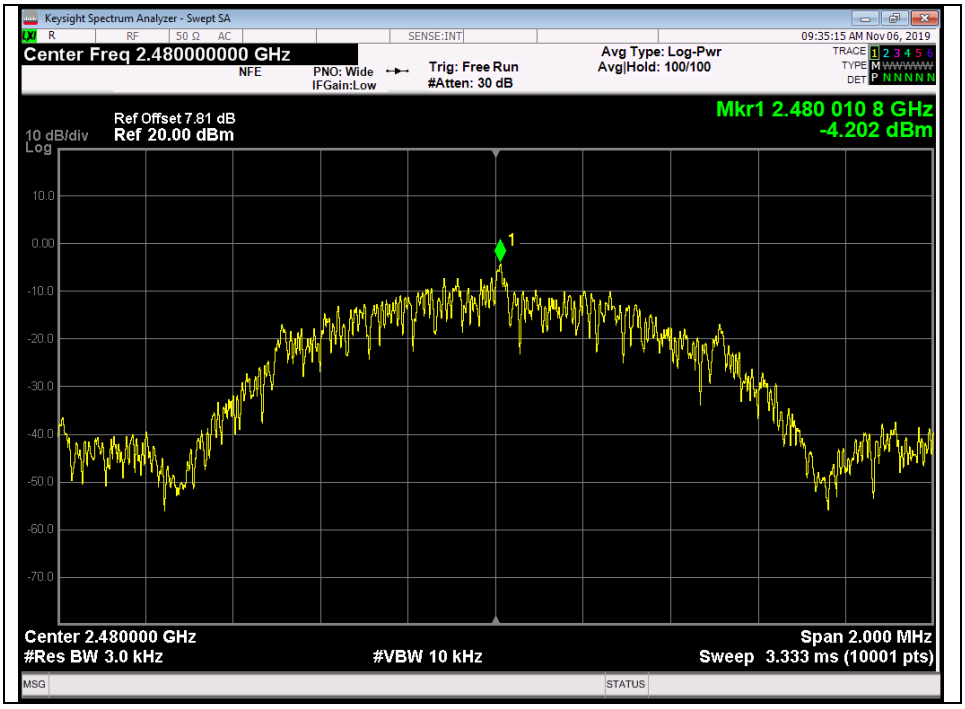
B. Test Plots



(LE 1M PHY _ Channel = 0, 2402MHz)



(LE 1M PHY_ Channel = 19, 2440MHz)



(LE 1M PHY _ Channel = 39, 2480MHz)

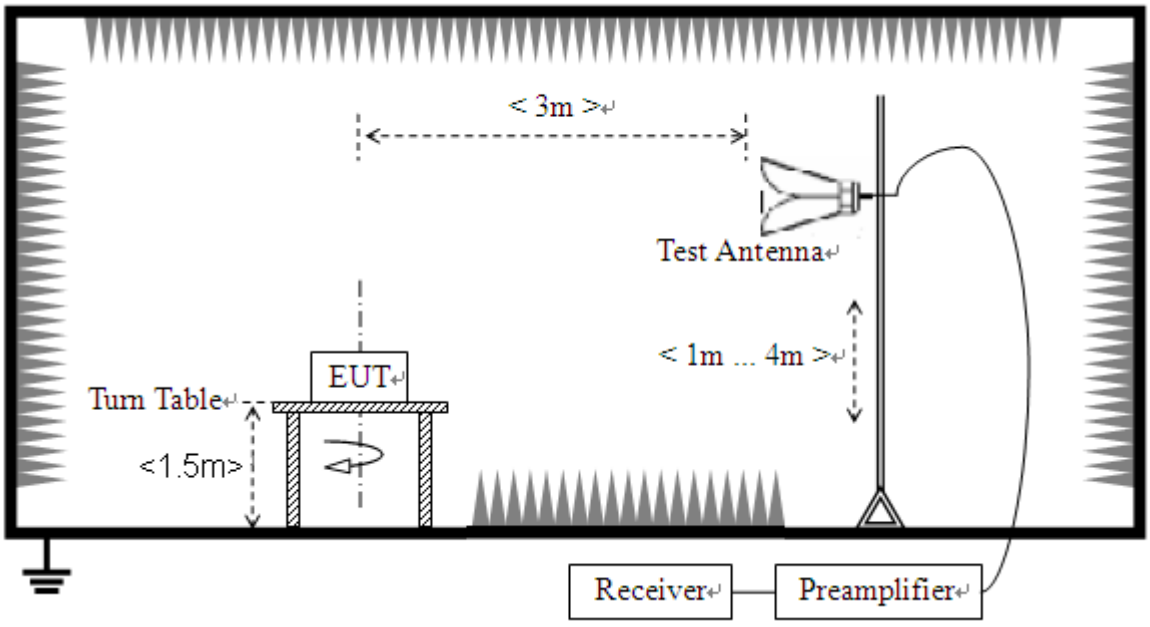
2.6. Restricted Frequency Bands

2.6.1. Requirement

According to FCC section 15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired 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).

2.6.2. Test Description

A. Test Setup



a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
f. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.
Note:
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasipeak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98%) or 10Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

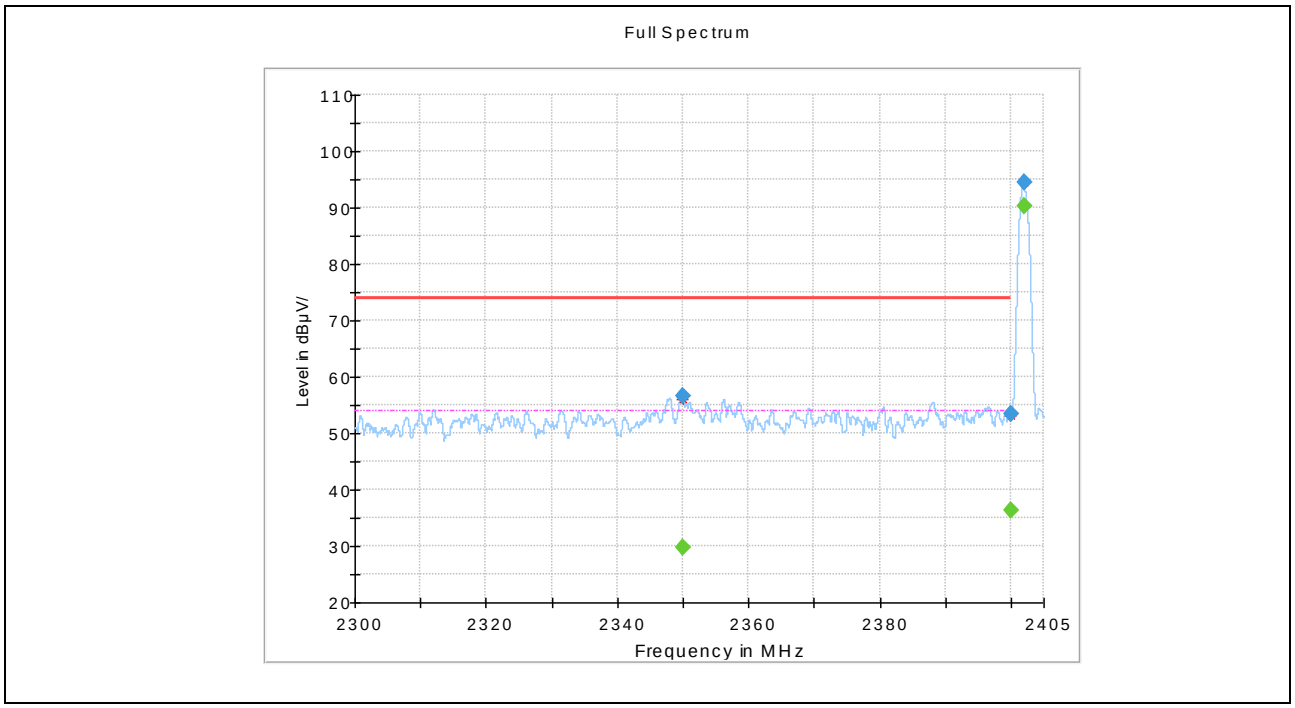
B. Equipments List:

Please refer ANNEX B(4).

2.6.3. Test Result

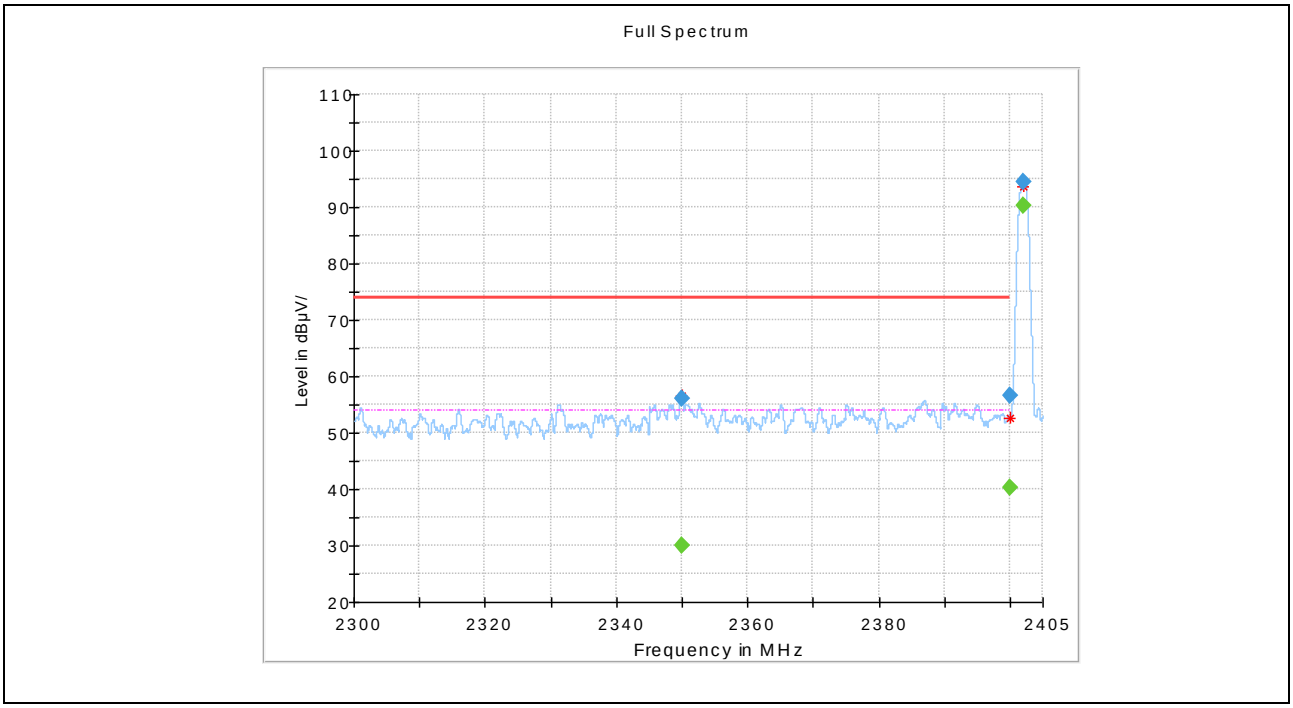
The lowest and highest channels are tested to verify Restricted Frequency Bands.
The measurement results are obtained as below:
E [dBμV/m] =U_R + A_T + A_{Factor} [dB]; AT =$L_{Cable\ loss}$ [dB]-G_{preamp} [dB]
A_T: Total correction Factor except Antenna
U_R: Receiver Reading
G_{preamp}: Preamplifier Gain
A_{Factor}: Antenna Factor at 3m

Test Plots:



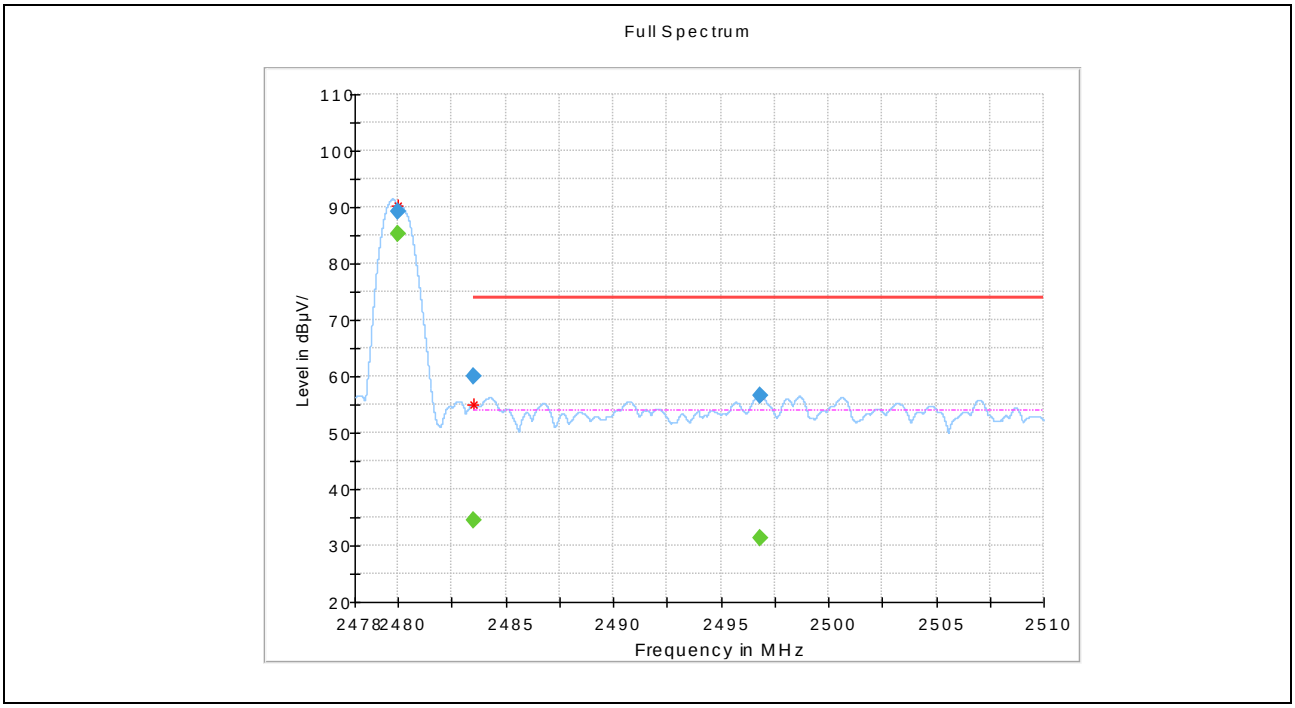
(LE 1M PHY_2402MHz, Antenna Horizontal)

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB/m)	Verdict
2349.962500	---	29.74	54.00	24.26	H	7.7	PASS
2349.962500	56.68	---	74.00	17.32	H	7.7	PASS
2399.965833	---	36.19	54.00	17.81	H	8.7	PASS
2399.965833	53.51	---	74.00	20.49	H	8.7	PASS
2402.001667	---	90.26	---	---	H	8.7	PASS
2402.001667	94.35	---	---	---	H	8.7	PASS



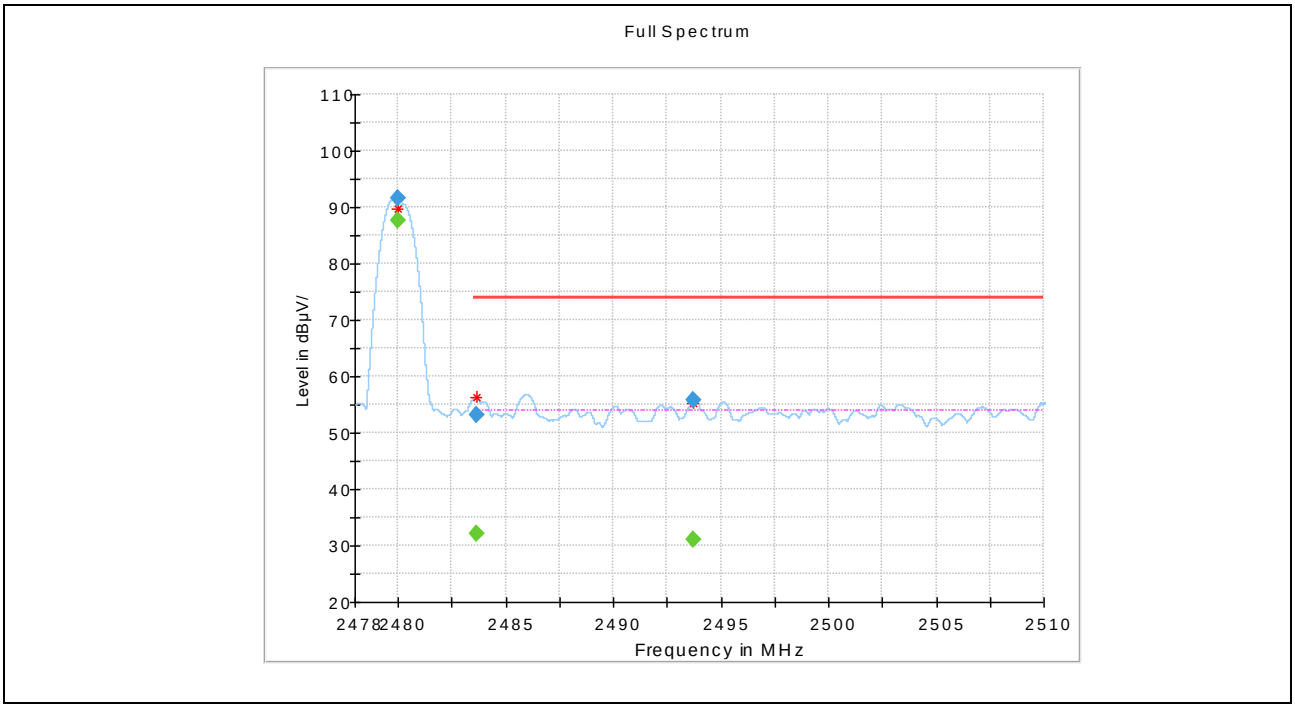
(LE 1M PHY_2402MHz, Antenna Vertical)

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB/m)	Verdict
2349.962500	56.09	---	74.00	17.70	V	7.7	PASS
2349.962500	---	29.89	54.00	24.11	V	7.7	PASS
2399.995000	56.67	---	74.00	17.33	V	8.7	PASS
2399.995000	---	40.32	54.00	13.68	V	8.7	PASS
2402.001667	---	90.29	---	---	V	8.7	PASS
2402.001667	94.39	---	---	---	V	8.7	PASS



(LE 1M PHY_2480MHz, Antenna Horizontal)

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB/m)	Verdict
2480.000000	89.33	---	---	---	H	8.2	PASS
2480.000000	---	85.26	---	---	H	8.2	PASS
2483.511111	59.91	---	74.00	14.09	H	8.3	PASS
2483.511111	---	34.38	54.00	19.62	H	8.3	PASS
2496.805333	---	31.21	54.00	22.79	H	8.4	PASS
2496.805333	56.62	---	74.00	17.38	H	8.4	PASS



(LE 1M PHY_2480MHz, Antenna Vertical)

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB/m)	Verdict
2479.996445	---	87.52	---	---	V	8.2	PASS
2479.996445	91.55	---	---	---	V	8.2	PASS
2483.626667	53.19	---	74.00	20.81	V	8.3	PASS
2483.626667	---	32.04	54.00	21.96	V	8.3	PASS
2493.751111	55.74	---	74.00	18.26	V	8.4	PASS
2493.751111	---	31.01	54.00	22.99	V	8.4	PASS

2.7. Conducted Emission

2.7.1. Requirement

According to FCC section 15.207, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50μH/50Ω line impedance stabilization network (LISN).

Frequency range (MHz)	Conducted Limit (dBμV)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

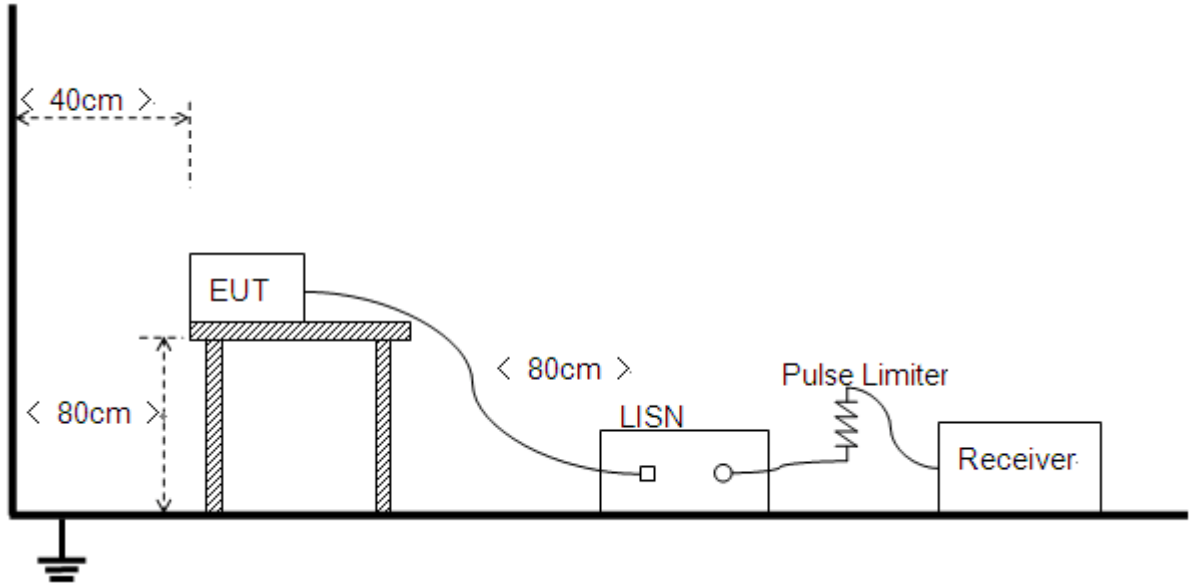
NOTE:

(a) The lower limit shall apply at the band edges.

(b) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50MHz.

2.7.2. Test Description

A. Test Setup:



The Table-top EUT was placed upon a non-metallic table 0.8m above the horizontal metal reference ground plane. EUT was connected to LISN and LISN was connected to reference Ground Plane. EUT was 80cm from LISN. The set-up and test methods were according to ANSI C63.10: 2013.

B. Equipments List:

Please refer ANNEX B(4).

2.7.3. Test Result

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

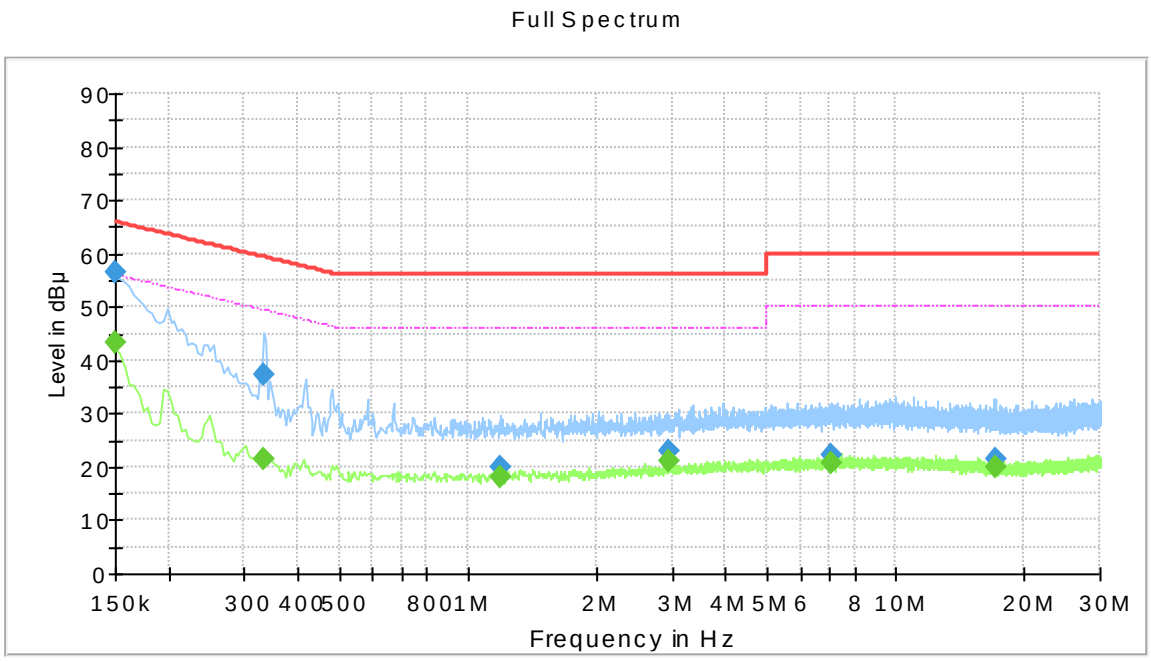
Note: Both of the test voltage AC 120V/60Hz and AC 230V/50Hz were considered and tested respectively, only the results of the worst case AC 120V/60Hz were recorded in this report.

A. Test setup:

The EUT configuration of the emission tests is Charging +BLE Link.

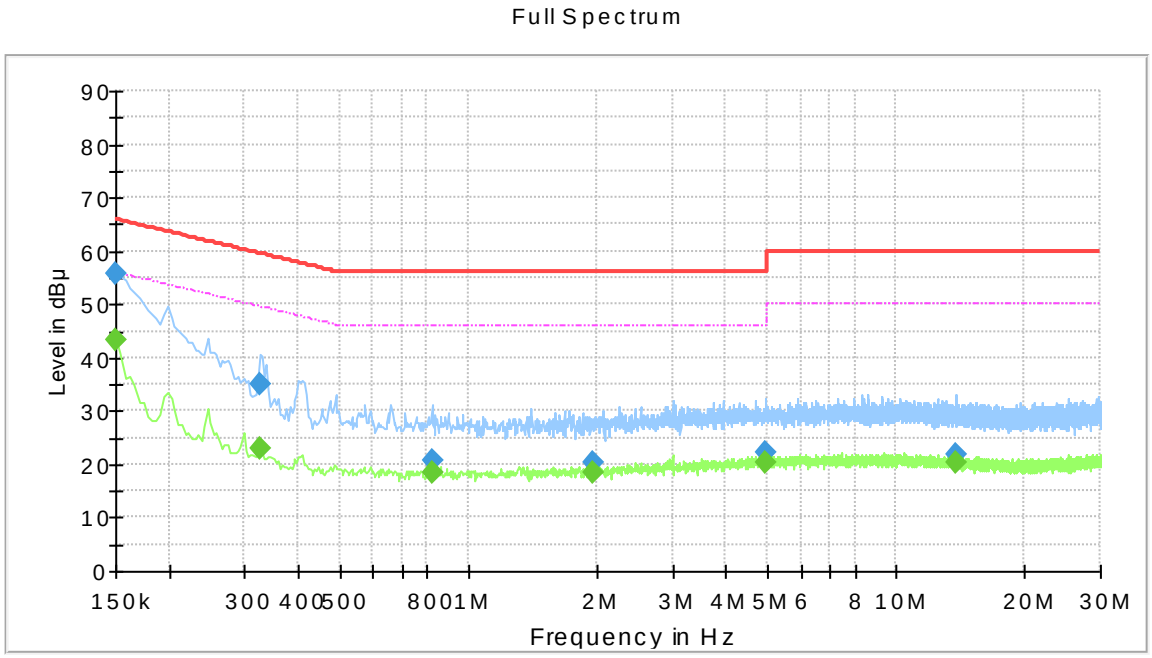
Note: The test voltage is AC 120V/60Hz.

B. Test Plots:



(Plot A: L Phase)

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	Verdict
0.150000	---	43.45	56.00	12.55	L	10.2	PASS
0.150000	56.50	---	66.00	9.50	L	10.2	PASS
0.334000	---	21.63	49.35	27.72	L	10.2	PASS
0.334000	37.41	---	59.35	21.95	L	10.2	PASS
1.194000	---	18.20	46.00	27.80	L	10.3	PASS
1.194000	19.91	---	56.00	36.09	L	10.3	PASS
2.958000	22.90	---	56.00	33.10	L	10.4	PASS
2.958000	---	20.90	46.00	25.10	L	10.4	PASS
7.058000	22.41	---	60.00	37.59	L	10.6	PASS
7.058000	---	20.83	50.00	29.17	L	10.6	PASS
17.166000	---	19.78	50.00	30.22	L	10.7	PASS
17.166000	21.32	---	60.00	38.68	L	10.7	PASS



(Plot A: N Phase)

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	Verdict
0.150000	---	43.25	56.00	12.75	N	10.2	PASS
0.150000	55.69	---	66.00	10.31	N	10.2	PASS
0.326000	---	22.83	49.55	26.72	N	10.2	PASS
0.326000	35.03	---	59.55	24.53	N	10.2	PASS
0.822000	---	18.35	46.00	27.65	N	10.3	PASS
0.822000	20.58	---	56.00	35.42	N	10.3	PASS
1.946000	20.35	---	56.00	35.65	N	10.3	PASS
1.946000	---	18.63	46.00	27.37	N	10.3	PASS
4.930000	22.05	---	56.00	33.95	N	10.4	PASS
4.930000	---	20.43	46.00	25.57	N	10.4	PASS
13.754000	---	20.16	50.00	29.84	N	10.7	PASS
13.754000	21.74	---	60.00	38.26	N	10.7	PASS

2.8. Radiated Emission

2.8.1. Requirement

According to FCC section 15.247(d), radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (μV/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
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Note:

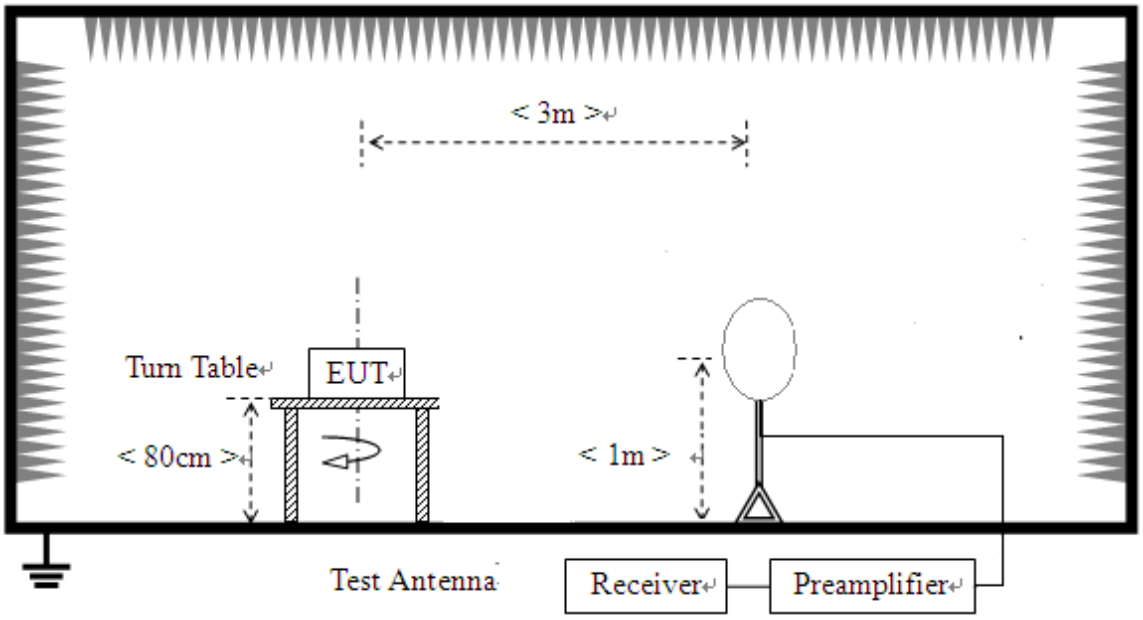
1. For Above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.
2. For above 1000MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK)

In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), also should comply with the radiated emission limits specified in Section 15.209(a)(above table)

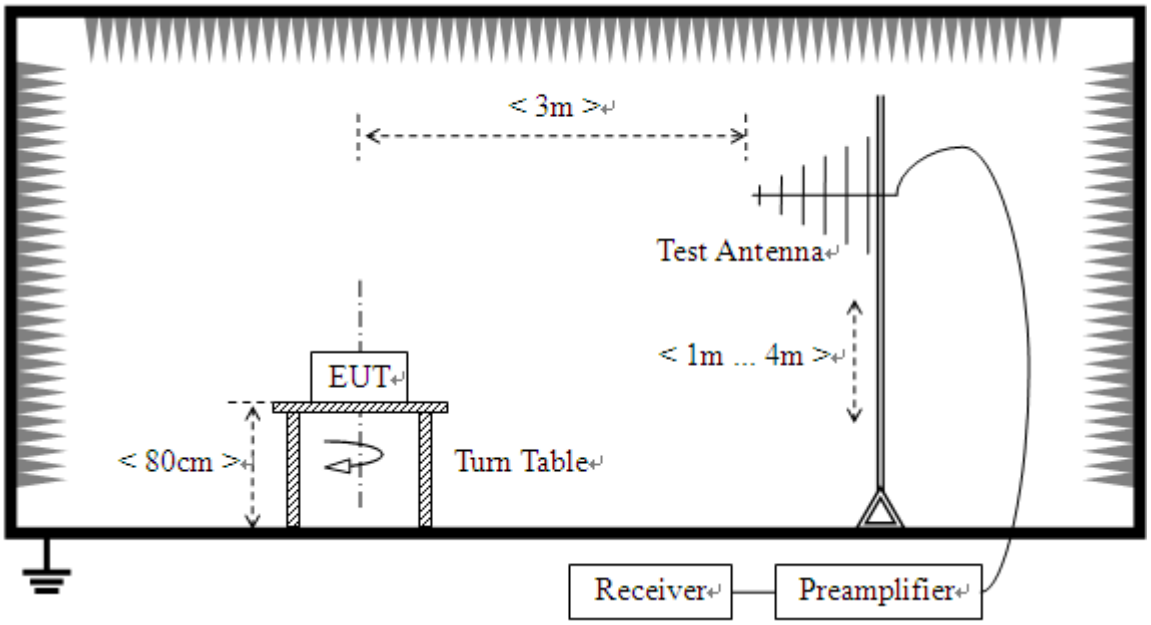
2.8.2. Test Description

A. Test Setup:

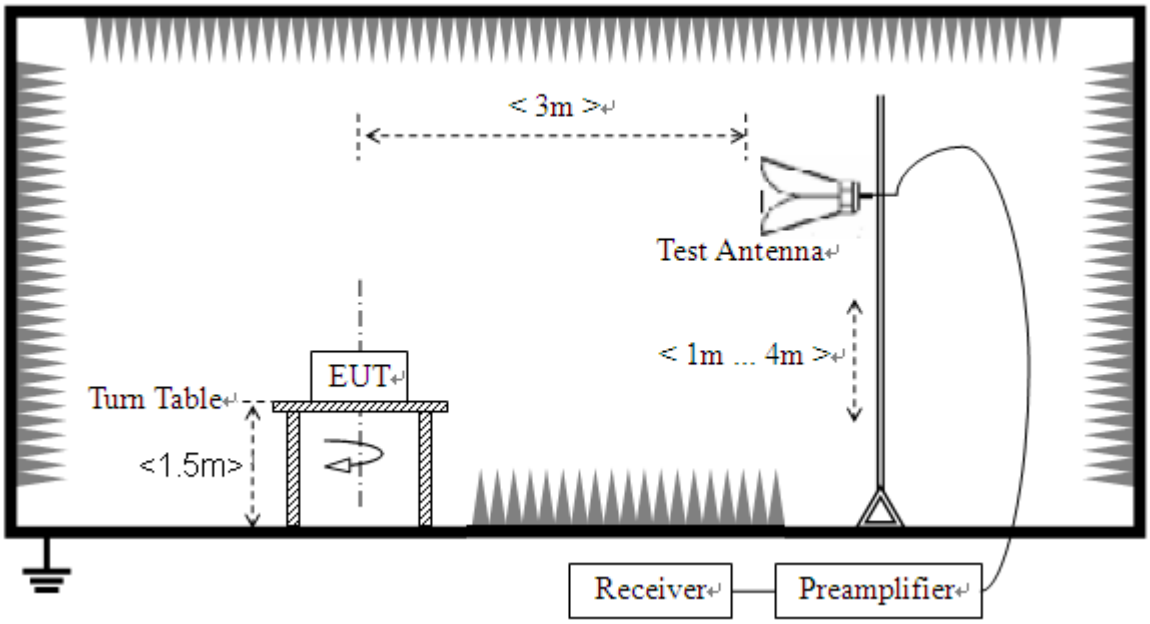
1) For radiated emissions from 9kHz to 30MHz



2) For radiated emissions from 30MHz to1GHz



3) For radiated emissions above 1GHz



The RF absorbing material used on the reference ground plane and on the turntable have a maximum height (thickness) of 30 cm (12 in) and have a minimum-rated attenuation of 20 dB at all frequencies from 1 GHz to 18 GHz. Test site have a minimum area of the ground plane covered with RF absorbing material as specified in Figure 6 of ANSI C63.4: 2014.

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4dB according to the standards: ANSI C63.10:2013. For radiated emissions below or equal to 1GHz, The EUT was set-up on insulator 80cm above the Ground Plane, For radiated emissions above 1GHz, The EUT was set-up on insulator 150cm above the Ground Plane. The set-up and test methods were according to ANSI C63.10:2013.

For Radiated emission below 30MHz:

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.

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

c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with

Maximum Hold Mode.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

For Radiated emission above 30MHz:

a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.

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

c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

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

e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

f. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasipeak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98%) or 10Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

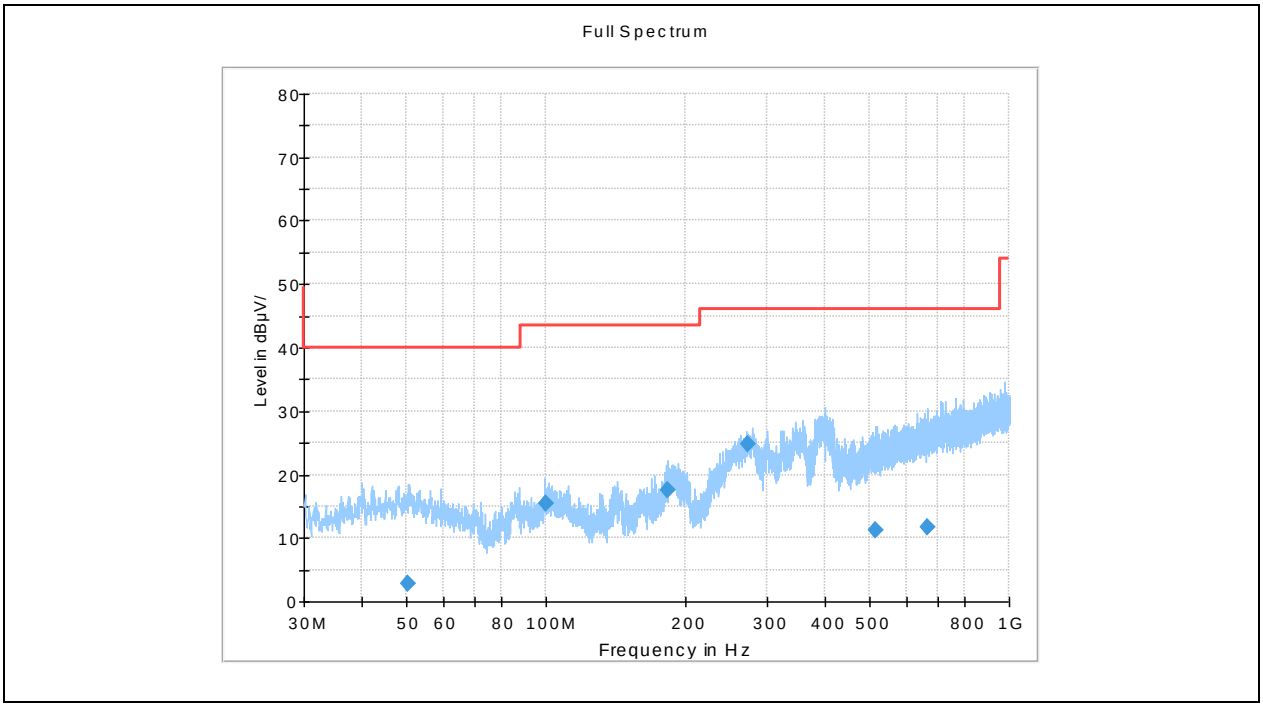
B. Equipments List:

Please refer ANNEX B(4).

2.8.3. Test Result

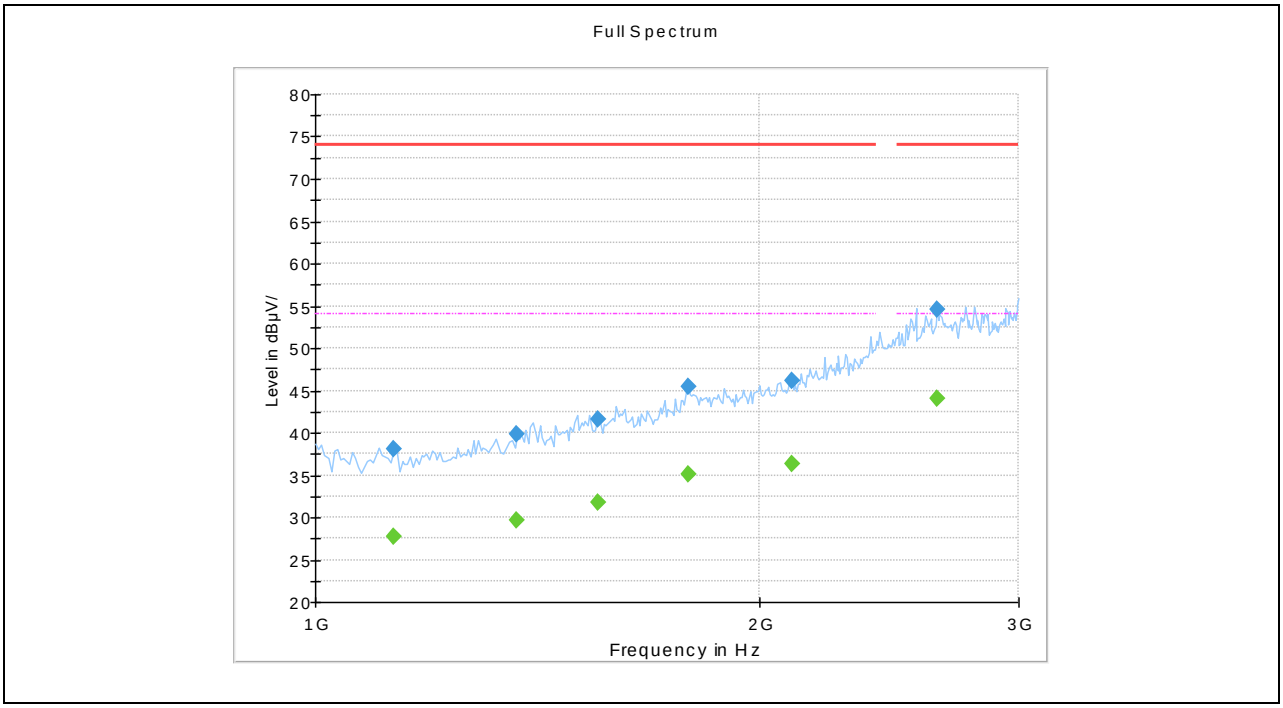
Note1: For the frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

Note2: For the frequency, which started from 18GHz to 40GHz, was pre-scanned and the result which was 10dB lower than the limit was not recorded.



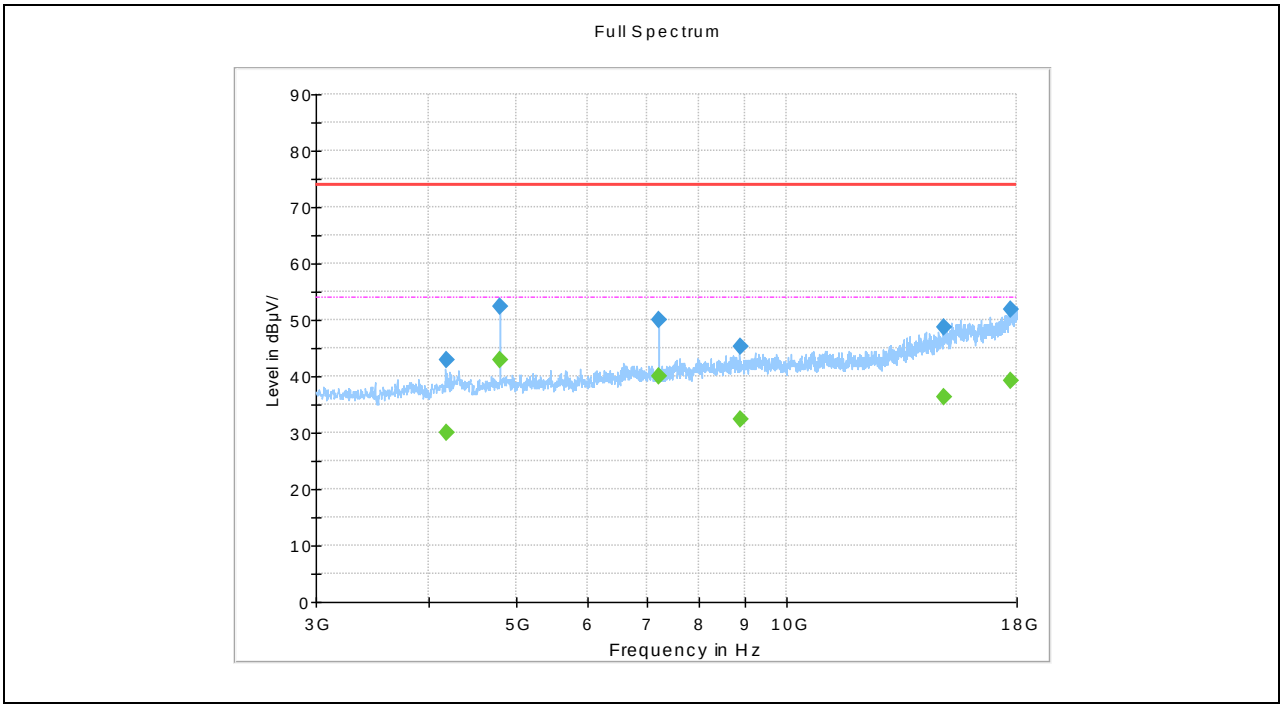
(LE 1M PHY_2402MHz, Antenna Horizontal, 30MHz to 1GHz)

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB/m)	Verdict
50.410833	2.86	40.00	37.14	H	16.1	PASS
99.674583	15.37	43.50	28.13	H	14.9	PASS
183.261667	17.63	43.50	25.87	H	12.4	PASS
271.807500	24.85	46.00	21.15	H	15.4	PASS
515.605000	11.33	46.00	34.67	H	22.0	PASS
668.259583	11.76	46.00	34.24	H	24.4	PASS



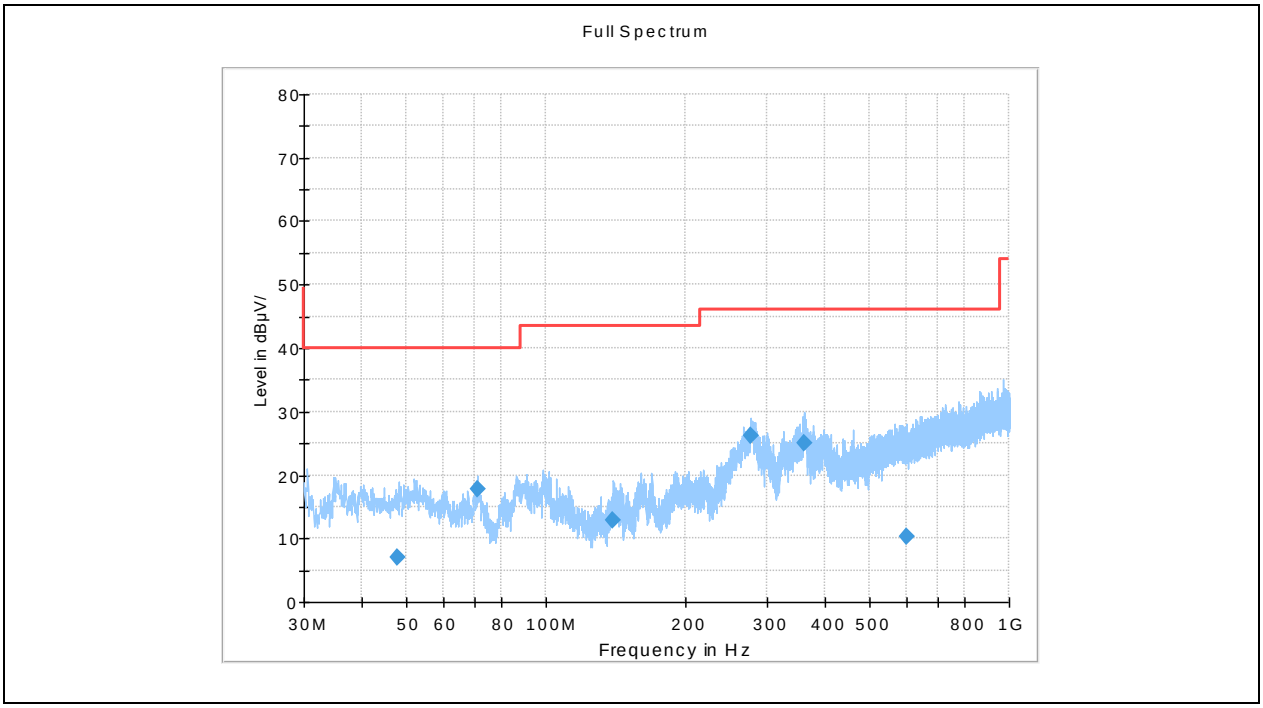
(LE 1M PHY _2402MHz, Antenna Horizontal, 1GHz to 3GHz)

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB/m)	Verdict
1130.000000	38.01	---	74.00	35.99	H	30.4	PASS
1130.000000	---	27.69	54.00	26.31	H	30.4	PASS
1370.000000	---	29.60	54.00	24.40	H	32.4	PASS
1370.000000	39.81	---	74.00	34.19	H	32.4	PASS
1555.000000	41.66	---	74.00	32.34	H	34.4	PASS
1555.000000	---	31.72	54.00	22.28	H	34.4	PASS
1790.000000	45.36	---	74.00	28.64	H	37.1	PASS
1790.000000	---	35.05	54.00	18.95	H	37.1	PASS
2105.000000	---	36.37	54.00	17.63	H	38.5	PASS
2105.000000	46.07	---	74.00	27.93	H	38.5	PASS
2640.000000	54.64	---	74.00	19.36	H	45.1	PASS
2640.000000	---	44.06	54.00	9.94	H	45.1	PASS



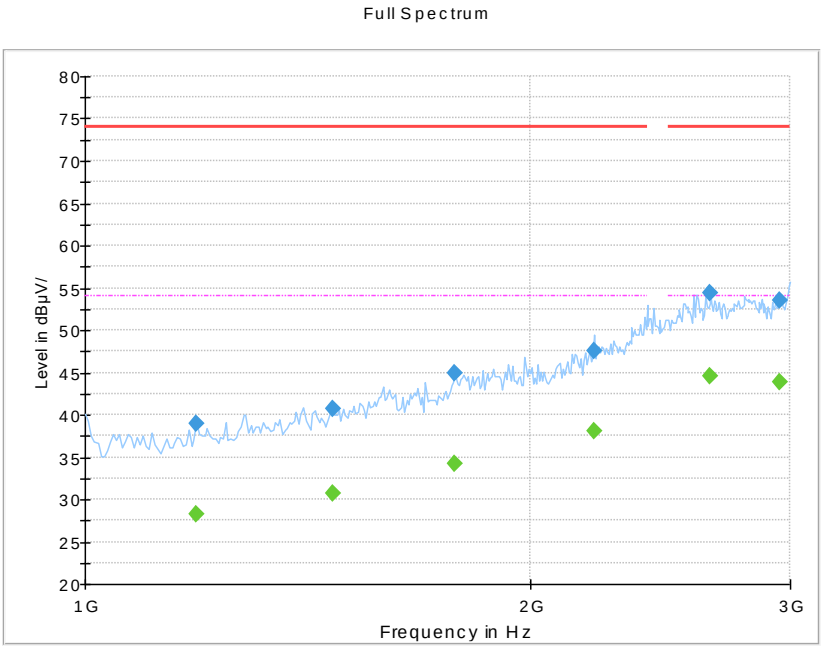
(LE 1M PHY _2402MHz, Antenna Horizontal, 3GHz to 18GHz)

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB/m)	Verdict
4196.898141	---	29.89	54.00	24.11	H	-4.2	PASS
4196.898141	42.86	---	74.00	31.14	H	-4.2	PASS
4803.233592	---	42.98	54.00	11.02	H	-3.3	PASS
4803.233592	52.47	---	74.00	21.53	H	-3.3	PASS
7205.355769	---	39.91	54.00	14.09	H	-0.4	PASS
7205.355769	49.99	---	74.00	24.01	H	-0.4	PASS
8868.745463	45.37	---	74.00	28.63	H	1.4	PASS
8868.745463	---	32.32	54.00	21.68	H	1.4	PASS
14953.835400	48.66	---	74.00	25.34	H	9.7	PASS
14953.835400	---	36.33	54.00	17.67	H	9.7	PASS
17706.568325	---	39.15	54.00	14.85	H	14.4	PASS
17706.568325	51.81	---	74.00	22.19	H	14.4	PASS



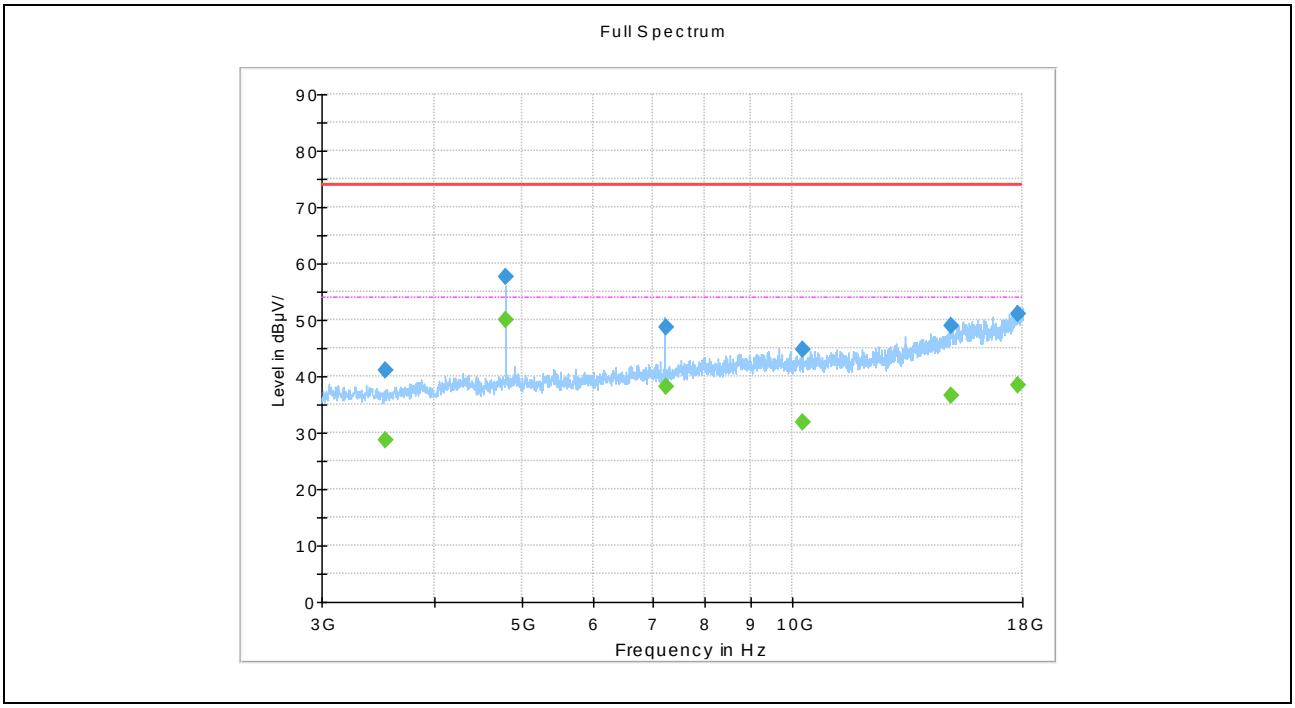
(LE 1M PHY _2402MHz, Antenna Vertical, 30MHz to 1GHz)

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB/m)	Verdict
47.667083	6.99	40.00	33.01	V	15.5	PASS
71.342500	17.89	40.00	22.11	V	11.1	PASS
139.331667	12.76	43.50	30.74	V	11.8	PASS
277.465417	26.31	46.00	19.69	V	16.1	PASS
360.571667	24.93	46.00	21.07	V	18.5	PASS
600.155833	10.23	46.00	35.77	V	23.5	PASS



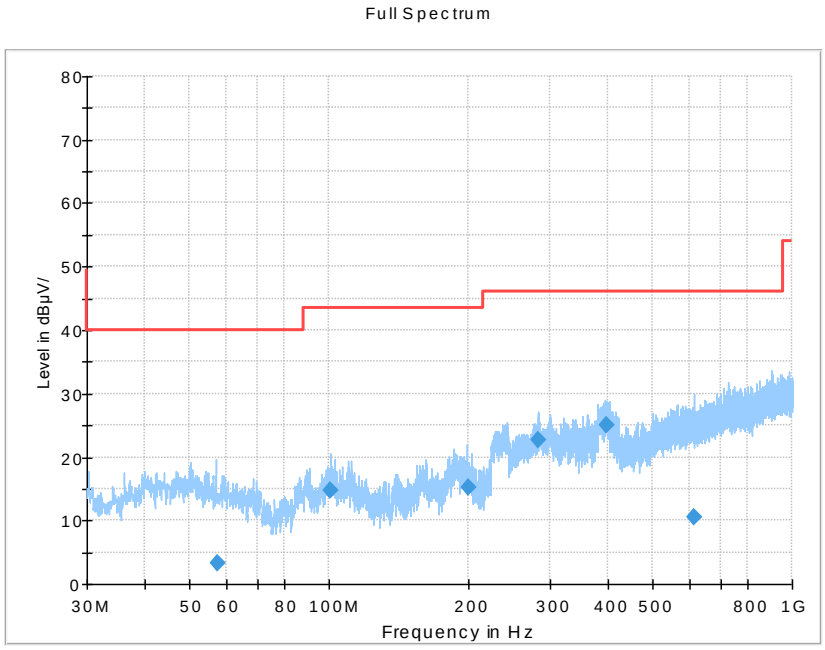
(LE 1M PHY _2402MHz, Antenna Vertical , 1GHz to 3GHz)

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB/m)	Verdict
1190.000000	38.90	---	74.00	35.10	V	31.2	PASS
1190.000000	---	28.25	54.00	25.75	V	31.2	PASS
1470.000000	40.64	---	74.00	33.36	V	33.4	PASS
1470.000000	---	30.76	54.00	23.24	V	33.4	PASS
1780.000000	44.84	---	74.00	29.16	V	36.3	PASS
1780.000000	---	34.23	54.00	19.77	V	36.3	PASS
2210.000000	---	38.00	54.00	16.00	V	39.9	PASS
2210.000000	47.49	---	74.00	26.51	V	39.9	PASS
2650.000000	54.38	---	74.00	19.62	V	45.5	PASS
2650.000000	---	44.51	54.00	9.49	V	45.5	PASS
2955.000000	---	43.92	54.00	10.08	V	45.2	PASS
2955.000000	53.59	---	74.00	20.41	V	45.2	PASS



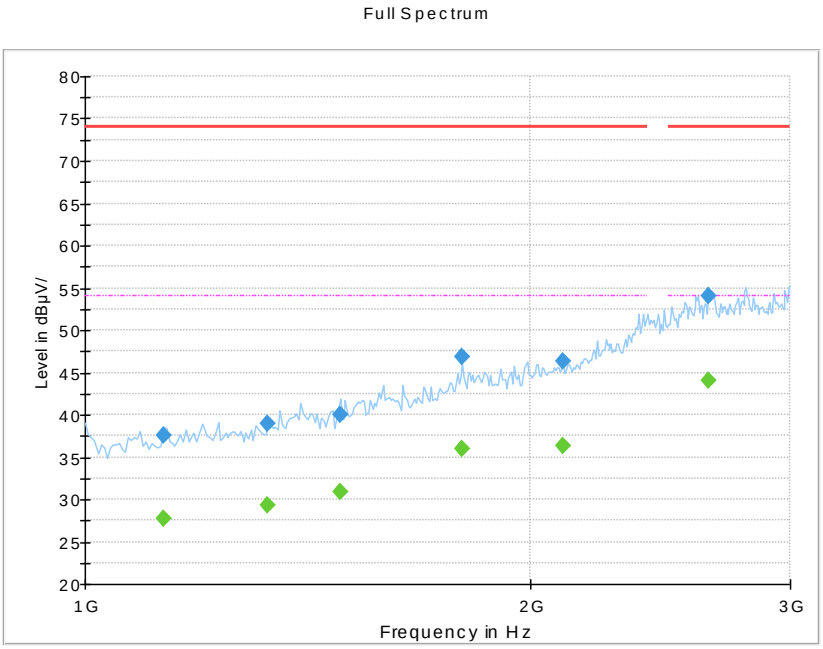
(LE 1M PHY _2402MHz, Antenna Vertical, 3GHz to 18GHz)

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB/m)	Verdict
3535.493794	---	28.65	54.00	25.35	V	-6.2	PASS
3535.493794	41.11	---	74.00	32.89	V	-6.2	PASS
4804.398513	57.69	---	74.00	16.31	V	-3.3	PASS
4804.398513	---	49.92	54.00	4.08	V	-3.3	PASS
7225.122338	---	38.03	54.00	15.97	V	-0.4	PASS
7225.122338	48.77	---	74.00	25.23	V	-0.4	PASS
10245.218465	---	31.94	54.00	22.06	V	2.2	PASS
10245.218465	44.78	---	74.00	29.22	V	2.2	PASS
15007.294804	48.98	---	74.00	25.02	V	10.7	PASS
15007.294804	---	36.71	54.00	17.29	V	10.7	PASS
17812.976400	---	38.39	54.00	15.61	V	14.4	PASS
17812.976400	50.99	---	74.00	23.01	V	14.4	PASS



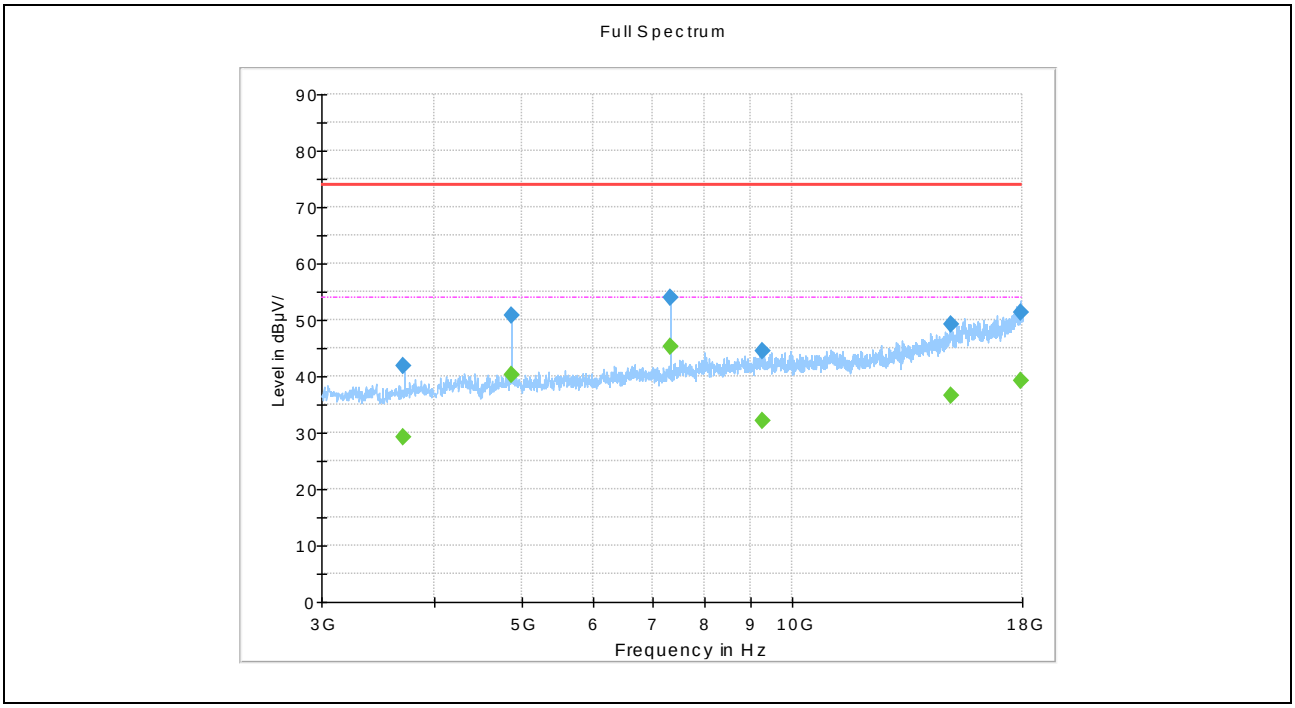
(LE 1M PHY _2440MHz, Antenna Horizontal, 30MHz to 1GHz)

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB/m)	Verdict
57.397083	3.16	40.00	36.84	H	14.4	PASS
100.887083	14.76	43.50	28.74	H	15.0	PASS
199.582917	15.15	43.50	28.35	H	14.3	PASS
283.372917	22.63	46.00	23.37	H	16.1	PASS
398.358750	25.04	46.00	20.96	H	19.5	PASS
615.118333	10.63	46.00	35.37	H	23.6	PASS



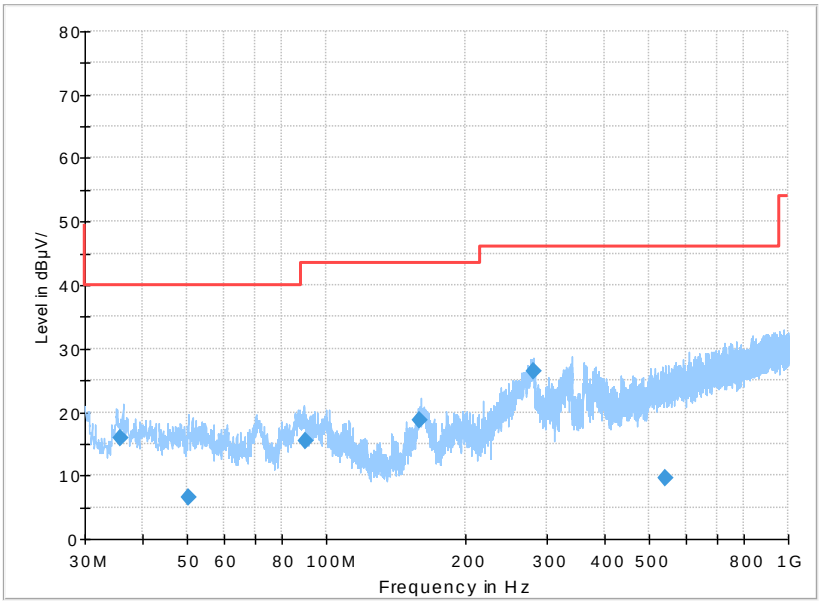
(LE 1M PHY _2440MHz, Antenna Horizontal, 1GHz to 3GHz)

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB/m)	Verdict
1130.000000	---	27.69	54.00	26.31	H	30.4	PASS
1130.000000	37.52	---	74.00	36.48	H	30.4	PASS
1330.000000	39.01	---	74.00	34.99	H	32.1	PASS
1330.000000	---	29.27	54.00	24.73	H	32.1	PASS
1490.000000	---	30.79	54.00	23.21	H	33.5	PASS
1490.000000	40.01	---	74.00	33.99	H	33.5	PASS
1800.000000	---	35.88	54.00	18.12	H	38.0	PASS
1800.000000	46.82	---	74.00	27.18	H	38.0	PASS
2105.000000	---	36.37	54.00	17.63	H	38.5	PASS
2105.000000	46.30	---	74.00	27.70	H	38.5	PASS
2640.000000	54.07	---	74.00	19.93	H	45.1	PASS
2640.000000	---	44.05	54.00	9.95	H	45.1	PASS



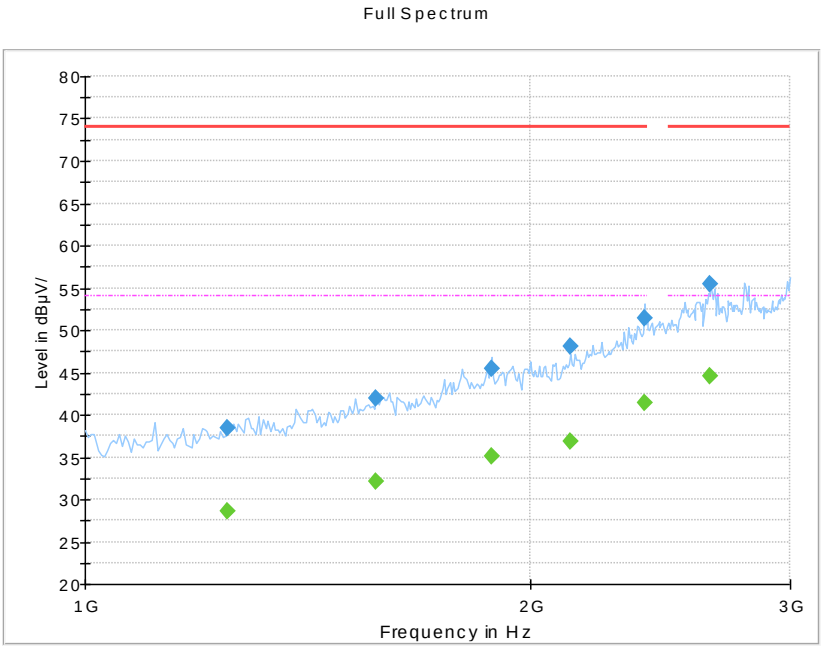
(LE 1M PHY _2440MHz, Antenna Horizontal, 3GHz to 18GHz)

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB/m)	Verdict
3702.574848	41.89	---	74.00	32.11	H	-5.3	PASS
3702.574848	---	29.14	54.00	24.86	H	-5.3	PASS
4878.896364	50.69	---	74.00	23.31	H	-2.8	PASS
4878.896364	---	40.21	54.00	13.79	H	-2.8	PASS
7319.304600	53.87	---	74.00	20.13	H	-0.2	PASS
7319.304600	---	45.30	54.00	8.70	H	-0.2	PASS
9248.725350	44.47	---	74.00	29.53	H	2.3	PASS
9248.725350	---	32.03	54.00	21.97	H	2.3	PASS
15004.767825	49.20	---	74.00	24.80	H	10.6	PASS
15004.767825	---	36.51	54.00	17.49	H	10.6	PASS
17941.496228	51.37	---	74.00	22.63	H	14.4	PASS
17941.496228	---	39.21	54.00	14.79	H	14.4	PASS



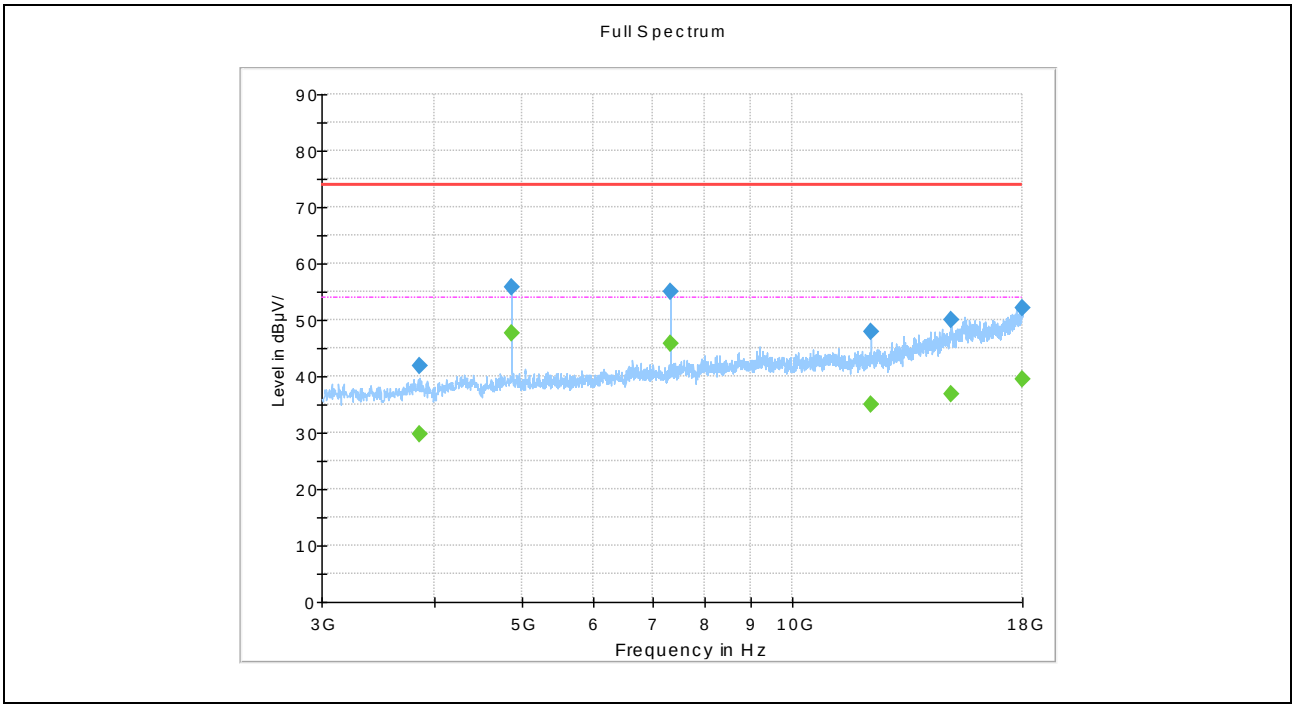
(LE 1M PHY _2440MHz, Antenna Vertical, 30MHz to 1GHz)

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB/m)	Verdict
35.785000	15.85	40.00	24.15	V	13.0	PASS
50.207917	6.59	40.00	33.41	V	16.1	PASS
90.014167	15.37	43.50	28.13	V	13.4	PASS
159.541250	18.61	43.50	24.89	V	12.1	PASS
280.138333	26.38	46.00	19.62	V	16.7	PASS
541.871667	9.62	46.00	36.38	V	22.4	PASS



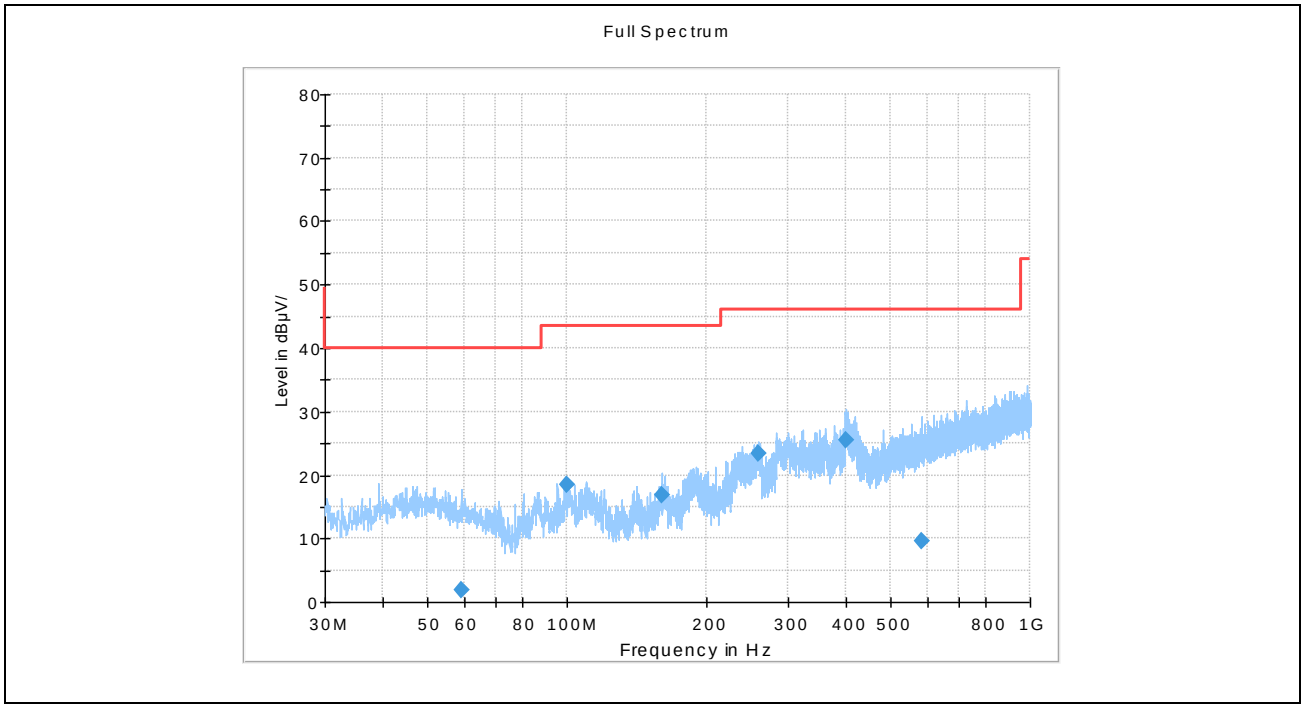
(LE 1M PHY _2440MHz, Antenna Vertical , 1GHz to 3GHz)

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB/m)	Verdict
1250.000000	38.38	---	74.00	35.62	V	31.5	PASS
1250.000000	---	28.61	54.00	25.39	V	31.5	PASS
1575.000000	41.97	---	74.00	32.03	V	34.7	PASS
1575.000000	---	32.06	54.00	21.94	V	34.7	PASS
1885.000000	---	35.02	54.00	18.98	V	37.1	PASS
1885.000000	45.46	---	74.00	28.54	V	37.1	PASS
2130.000000	48.02	---	74.00	25.98	V	38.8	PASS
2130.000000	---	36.76	54.00	17.24	V	38.8	PASS
2390.000000	51.44	---	74.00	22.56	V	43.0	PASS
2390.000000	---	41.45	54.00	12.55	V	43.0	PASS
2650.000000	---	44.50	54.00	9.50	V	45.5	PASS
2650.000000	55.41	---	74.00	18.59	V	45.5	PASS



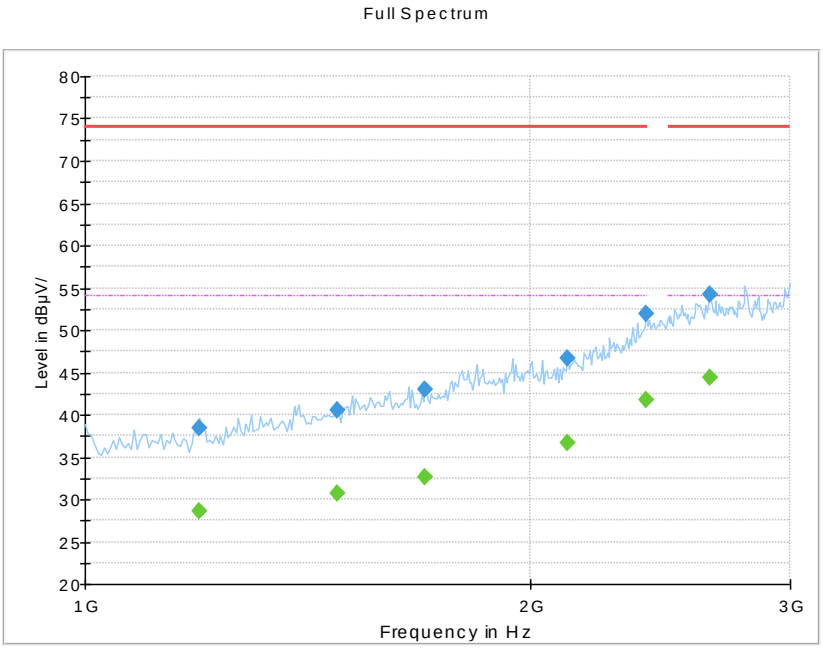
(LE 1M PHY _2440MHz, Antenna Vertical, 3GHz to 18GHz)

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB/m)	Verdict
3858.248356	---	29.62	54.00	24.38	V	-4.6	PASS
3858.248356	41.86	---	74.00	32.14	V	-4.6	PASS
4879.323259	---	47.67	54.00	6.33	V	-2.8	PASS
4879.323259	55.82	---	74.00	18.18	V	-2.8	PASS
7320.622200	54.92	---	74.00	19.08	V	-0.2	PASS
7320.622200	---	45.73	54.00	8.27	V	-0.2	PASS
12200.334056	---	35.07	54.00	18.93	V	4.0	PASS
12200.334056	48.00	---	74.00	26.00	V	4.0	PASS
15006.224363	---	36.74	54.00	17.26	V	10.7	PASS
15006.224363	50.09	---	74.00	23.91	V	10.7	PASS
17995.050000	52.02	---	74.00	21.98	V	14.9	PASS
17995.050000	---	39.43	54.00	14.57	V	14.9	PASS



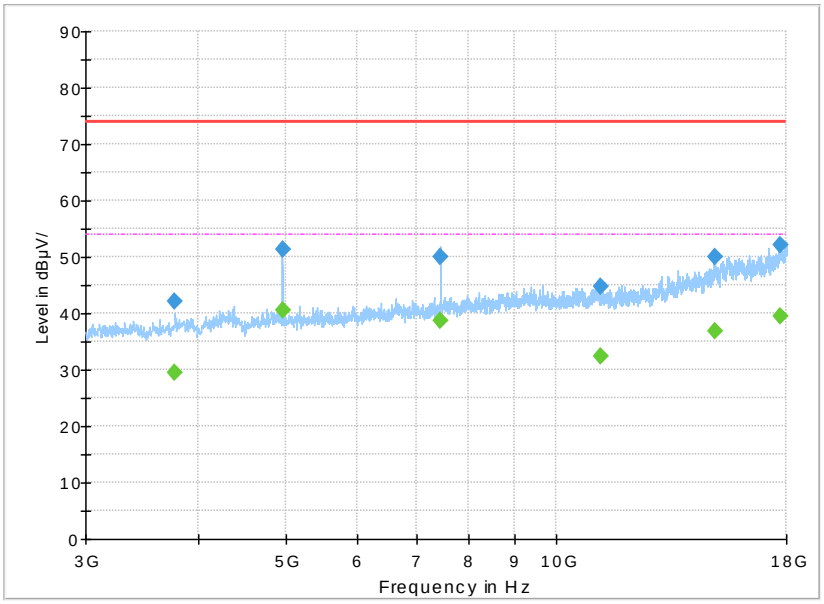
(LE 1M PHY _2480MHz, Antenna Horizontal, 30MHz to 1GHz)

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB/m)	Verdict
59.179167	1.76	40.00	38.24	H	14.6	PASS
99.875417	18.38	43.50	25.12	H	15.1	PASS
160.344583	16.90	43.50	26.60	H	12.1	PASS
259.725833	23.28	46.00	22.72	H	16.0	PASS
400.460833	25.49	46.00	20.51	H	19.7	PASS
584.801250	9.60	46.00	36.40	H	23.1	PASS



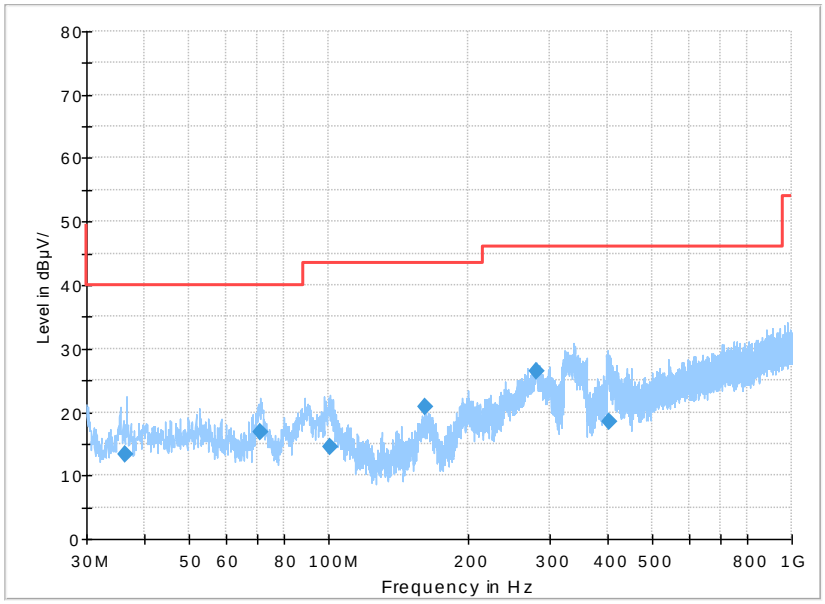
(LE 1M PHY _2480MHz, Antenna Horizontal, 1GHz to 3GHz)

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB/m)	Verdict
1195.000000	---	28.63	54.00	25.37	H	31.5	PASS
1195.000000	38.38	---	74.00	35.62	H	31.5	PASS
1480.000000	40.47	---	74.00	33.53	H	33.4	PASS
1480.000000	---	30.64	54.00	23.36	H	33.4	PASS
1700.000000	42.97	---	74.00	31.03	H	35.2	PASS
1700.000000	---	32.68	54.00	21.32	H	35.2	PASS
2120.000000	46.75	---	74.00	27.25	H	38.7	PASS
2120.000000	---	36.61	54.00	17.39	H	38.7	PASS
2395.000000	---	41.80	54.00	12.20	H	43.3	PASS
2395.000000	51.97	---	74.00	22.03	H	43.3	PASS
2645.000000	54.16	---	74.00	19.84	H	45.4	PASS
2645.000000	---	44.34	54.00	9.66	H	45.4	PASS



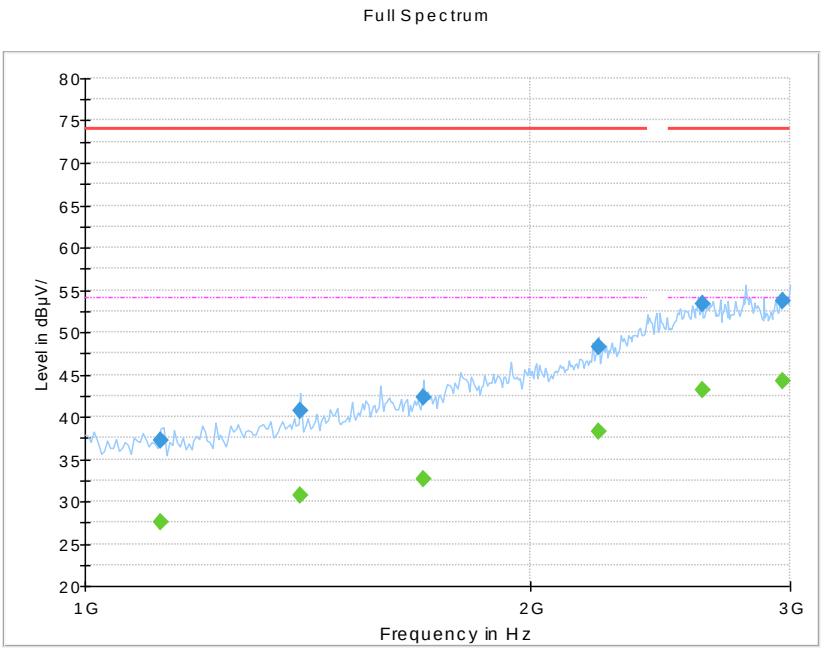
(LE 1M PHY _2480MHz, Antenna Horizontal, 3GHz to 18GHz)

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB/m)	Verdict
3771.532275	---	29.44	54.00	24.56	H	-5.0	PASS
3771.532275	42.07	---	74.00	31.93	H	-5.0	PASS
4960.982644	51.35	---	74.00	22.65	H	-3.1	PASS
4960.982644	---	40.41	54.00	13.59	H	-3.1	PASS
7439.051400	50.08	---	74.00	23.92	H	-0.3	PASS
7439.051400	---	38.57	54.00	15.43	H	-0.3	PASS
11194.961776	---	32.50	54.00	21.50	H	3.1	PASS
11194.961776	44.82	---	74.00	29.18	H	3.1	PASS
15005.791688	50.01	---	74.00	23.99	H	10.6	PASS
15005.791688	---	36.77	54.00	17.23	H	10.6	PASS
17741.671794	52.02	---	74.00	21.98	H	15.2	PASS
17741.671794	---	39.44	54.00	14.56	H	15.2	PASS



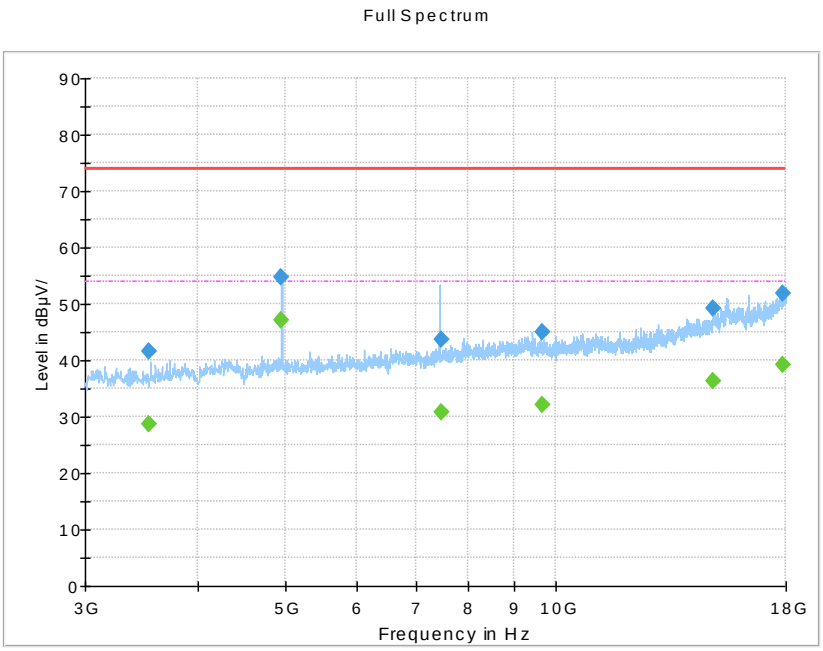
(LE 1M PHY _2480MHz, Antenna Vertical, 30MHz to 1GHz)

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB/m)	Verdict
36.267500	13.35	40.00	26.65	V	13.2	PASS
71.064167	16.73	40.00	23.27	V	11.3	PASS
100.368750	14.59	43.50	28.91	V	15.1	PASS
161.840833	20.90	43.50	22.60	V	11.9	PASS
280.416250	26.36	46.00	19.64	V	16.7	PASS
404.780000	18.40	46.00	27.60	V	19.2	PASS



(LE 1M PHY _2480MHz, Antenna Vertical , 1GHz to 3GHz)

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB/m)	Verdict
1125.000000	37.27	---	74.00	36.73	V	30.3	PASS
1125.000000	---	27.60	54.00	26.40	V	30.3	PASS
1400.000000	---	30.77	54.00	23.23	V	33.6	PASS
1400.000000	40.78	---	74.00	33.22	V	33.6	PASS
1695.000000	42.28	---	74.00	31.72	V	35.2	PASS
1695.000000	---	32.64	54.00	21.36	V	35.2	PASS
2225.000000	48.17	---	74.00	25.83	V	40.1	PASS
2225.000000	---	38.26	54.00	15.74	V	40.1	PASS
2615.000000	53.39	---	74.00	20.61	V	44.1	PASS
2615.000000	---	43.12	54.00	10.88	V	44.1	PASS
2965.000000	---	44.18	54.00	9.82	V	45.4	PASS
2965.000000	53.66	---	74.00	20.34	V	45.4	PASS



(LE 1M PHY _2480MHz, Antenna Vertical, 3GHz to 18GHz)

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB/m)	Verdict
3532.374402	---	28.64	54.00	25.36	V	-6.3	PASS
3532.374402	41.47	---	74.00	32.53	V	-6.3	PASS
4960.201838	---	47.10	54.00	6.90	V	-3.1	PASS
4960.201838	54.69	---	74.00	19.31	V	-3.1	PASS
7450.062600	---	30.77	54.00	23.23	V	-0.2	PASS
7450.062600	43.60	---	74.00	30.40	V	-0.2	PASS
9651.452108	45.01	---	74.00	28.99	V	1.7	PASS
9651.452108	---	32.02	54.00	21.98	V	1.7	PASS
14959.414901	49.28	---	74.00	24.72	V	9.8	PASS
14959.414901	---	36.41	54.00	17.59	V	9.8	PASS
17896.124864	---	39.18	54.00	14.82	V	14.6	PASS
17896.124864	51.97	---	74.00	22.03	V	14.6	PASS

Annex A Test Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for test performed on the EUT as specified in CISPR 16-1-2:

Test items	Uncertainty
Peak Output Power	±2.22dB
Power spectral density (PSD)	±2.22dB
Bandwidth	±5%
Conducted Spurious Emission	±2.77 dB
Restricted Frequency Bands	±5%
Radiated Emission	±3.1dB
Conducted Emission	±1.8dB

This uncertainty represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2

Annex B Testing Laboratory Information

1. Identification of the Responsible Testing Laboratory

Laboratory Name:	Kehu-Morlab Test Laboratory
Laboratory Address:	Unit 101, No.1732 Gangzhong Road, Xiamen Area, Pilot Free Trade Zone (Fujian) P. R. China
Telephone:	+86 592 5612050
Facsimile:	+86 592 5612095

2. Identification of the Responsible Testing Location

Name:	Kehu-Morlab Test Laboratory
Address:	Unit 101, No.1732 Gangzhong Road, Xiamen Area, Pilot Free Trade Zone (Fujian) P. R. China

3. Accreditation Certificate

Accredited Testing Laboratory:	The FCC designation number is CN1249. (Kehu-Morlab Test Laboratory)

4. Test Equipments Utilized

4.1 Conducted Test Equipments

No.	Equipment Name	Serial No.	Model No.	Manufacturer	Cal.Date	Cal.Due Date
1	MXA Signal Analyzer	MY53421845	N9020A	Keysight	2019.01.05	2020.01.04
2	RF cable (30MHz-26.5GHz)	RF01	N/A	Morlab	2019.01.05	2020.01.04
3	Coaxial cable	RF02	N/A	Morlab	2019.01.05	2020.01.04
4	SMA connector	RF03	N/A	Xingbo	2019.01.05	2020.01.04
Software Version: 2.0.0.0						

4.2 Conducted Emission Test Equipments

No.	Equipment Name	Serial No.	Model No.	Manufacturer	Cal.Date	Cal.Due Date
1	EMI Receiver	102174	ESR3	ESR3	2019.01.08	2020.01.07

2	LISN	101338	ENV432	ENV432	2019.01.14	2020.01.13
3	Pulse Limiter (10dB)	317	VTSD 9561 F	VTSD 9561 F	2019.01.14	2020.01.13
4	Coaxial cable(BNC) (30MHz-3GHz)	EMC01	N/A	Morlab	2019.01.14	2020.01.13

4.3 List of Software Used

No.	Model	Version Number	Producer	Test Item
1	EMC32	V10.00.00	Rode&Schwarz	RE
2	EMC32	V10.20.01	Rode&Schwarz	CE

4.4 Radiated Test Equipments

RSE Test System						
No.	**Equipment Name**	**Serial No.**	**Model No.**	**Manufacturer**	**Cal. Date**	**Cal.Due Date**
1	Anechoic Chamber	N/A	9m*6m*6m	ETS-Lindgren	2017.07.21	2020.07.20
2	Signal Analyzer	101294	FSV40	R&S	2019.01.04	2020.01.03
3	Active Ring Antenna	FMZB 1513 #269	FMZB 1513	Schwarzbeck	2019.01.12	2020.01.11
4	Linear Log Periodic Broad Band Antenna	949	VULB 9163	Schwarzbeck	2018.09.25	2020.09.24
5	Ultra-Wideband Horn Antenna	102615	HF907	R&S	2019.01.19	2020.01.18
6	Steatite Antennas	17868	QSH-SL-18-26-S-20	Seibersdorf	2019.01.12	2020.01.11
7	RF Switch and Control Platform	N/A	RSC	CDSI	N/A	N/A
8	Coaxial cable (N male) (9kHz -3GHz)	EMC02	N/A	Morlab	2019.01.04	2020.01.03
9	Coaxial cable (N male) (9kHz -3GHz)	EMC03	N/A	Morlab	2019.01.04	2020.01.03
10	Coaxial cable	EMC04	N/A	Morlab	2019.01.0	2020.01.0

	(N male) (1GHz-26.5GHz)				4	3
11	Coaxial cable (N male) (1GHz-26.5GHz)	EMC05	N/A	Morlab	2019.01.04	2020.01.03
12	Pre-amplifier (1GHz-18GHz)	8810011	PAP-1G18	CDSI	2019.01.04	2020.01.03
13	Pre-amplifier (18GHz-40GHz)	17021-17024	PAP-1840	CDSI	2019.01.29	2020.01.28
14	Band stop Filter	EMC19	BJF2400/2485-60	CDSI	2019.01.04	2020.01.03
15	High Pass Filter	EMC22	HFP-3.0/18G-60	CDSI	2019.01.04	2020.01.03

Annex C Declaration Letter

Difference Declaration

Original Model No.: CLEDA199L2@

Adding Model No. : LED9D2A19/CL@

To whom it may concern,

We, *GE Lighting* **would like to declare those models** *CLEDA199L2@ andLED9D2A19/CL@* **are identical in** *PCBA, Drivers, and Enclosure* **.The only difference is** *model number*.

Sincerely yours,

Applicant	:	GE Lighting
Address	:	1975 Noble Road Cleveland OH 44112 United States Of America
Signature	:	Tom Stuhlac
Name and title	:	/ CHIEF INNOVATION MANAGER
Email	:	TOM.STUHLAC@GE.COM
Tel.	:	216-233-5276

END OF REPORT