



TEST REPORT

MANUFACTURER : LEXI Devices, Inc.
PRODUCT NAME : A19 Bulb - Smart Color and Tunable White
MODEL NAME : 10011
BRAND NAME : LEXI
FCC ID : 2ATOT10011
STANDARD(S) : 47 CFR Part 15 Subpart C
RECEIPT DATE : 2020-10-27
TEST DATE : 2020-11-06 to 2020-11-10
ISSUE DATE : 2021-01-06

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Change History		
Version	Date	Reason for change
1.0	2021-01-06	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	LEXI Devices, Inc.
Applicant Address:	2342 Shattuck Ave, #260, Berkeley, CA 94704 US
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 Bulb - Smart Color and Tunable White
Serial No:	(N/A, marked #1 by test site)
Hardware Version:	V2.0
Software Version:	V100
Modulation Type:	O-QPSK
Operating Frequency Range:	2405MHz - 2480MHz;
Equipment Type:	Zigbee
Antenna Type:	internal antenna
Antenna Gain:	0.48dBi

Note 1: 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 2: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

1.3. Channel list

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
11	2405	15	2425	19	2445	23	2465
12	2410	16	2430	20	2450	24	2470
13	2415	17	2435	21	2455	25	2475



14	2420	18	2440	22	2460	26	2480
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1.4. 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 (10-1-15 Edition)	Radio Frequency Devices

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

No.	Section	Description	Test Date	Test Engineer	Result
1	15.203	Antenna Requirement	N/A	N/A	PASS
2	15.247(b)	Peak Output Power	Nov. 09, 2020	Elvis Wang	PASS
3	15.247(a)	Bandwidth	Nov. 09, 2020	Elvis Wang	PASS
4	15.247(d)	Conducted Spurious Emission and Band Edge	Nov. 09, 2020	Elvis Wang	PASS
5	15.247(e)	Power spectral density (PSD)	Nov. 09, 2020	Elvis Wang	PASS
6	15.247(d)	Restricted Frequency Bands	Nov. 09, 2020	Yaming Luo	PASS
7	15.207	Conducted Emission	Nov. 09, 2020	Yaming Luo	PASS
8	15.209, 15.247(d)	Radiated Emission	Nov. 09, 2020	Yaming Luo	PASS

Note: The tests were performed according to the method of measurements prescribed in ANSIC63.10-2013 and KDB558074 D01 15.247 Meas Guidance v05r02.

1.5. 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. Duty Cycle of Test Signal

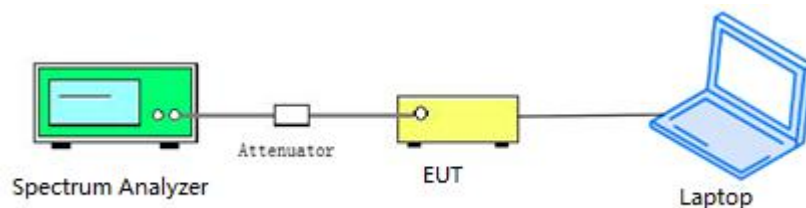
2.2.1. Requirement

Preferably, all measurements of maximum conducted (average) output power will be performed with the EUT transmitting continuously (i.e., with a duty cycle of greater than or equal to 98%). When continuous operation cannot be realized, then the use of sweep triggering/signal gating techniques can be used to ensure that measurements are made only during transmissions at the maximum power control level. Such sweep triggering/signal gating techniques will require knowledge of the minimum transmission duration (T) over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. Sweep triggering/signal gating techniques can then be used if the measurement/sweep time of the analyzer can be set such that it does not exceed T at any time that data are being acquired (i.e., no transmitter OFF-time is to be considered).

When continuous transmission cannot be achieved and sweep triggering/signal gating cannot be implemented, alternative procedures are provided that can be used to measure the average power; however, they will require an additional measurement of the transmitter duty cycle (D). Within this subclause, the duty cycle refers to the fraction of time over which the transmitter is ON and is transmitting at its maximum power control level. The duty cycle is considered to be constant if variations are less than $\pm 2\%$; otherwise, the duty cycle is considered to be nonconstant.

2.2.2. Test Description

Test Setup:



ANSI C63.10 2013 Clause 11.6 was used in order to prove compliance.

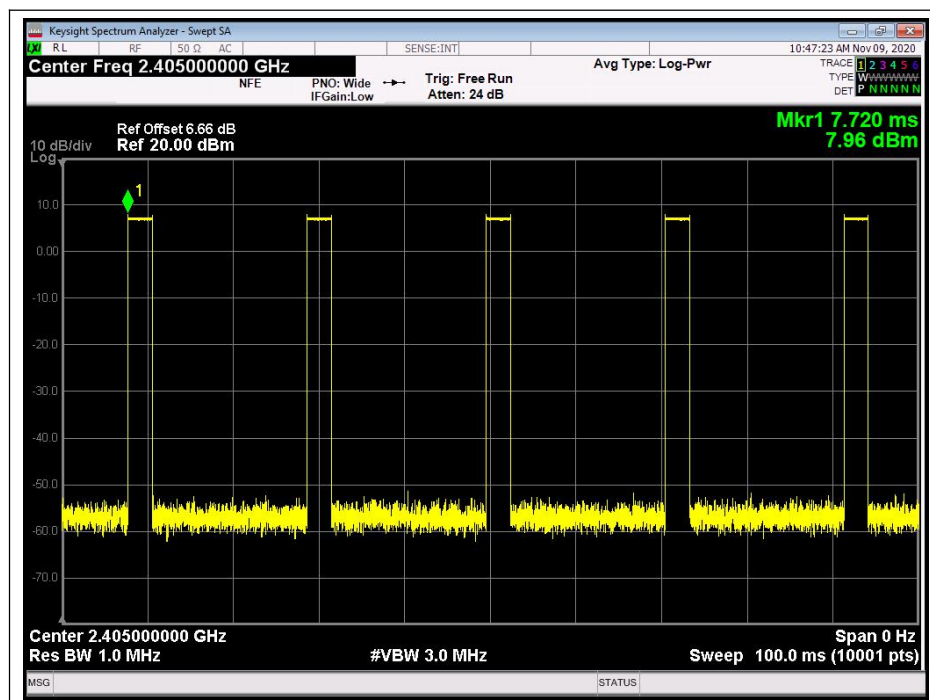


2.2.3. Test Result

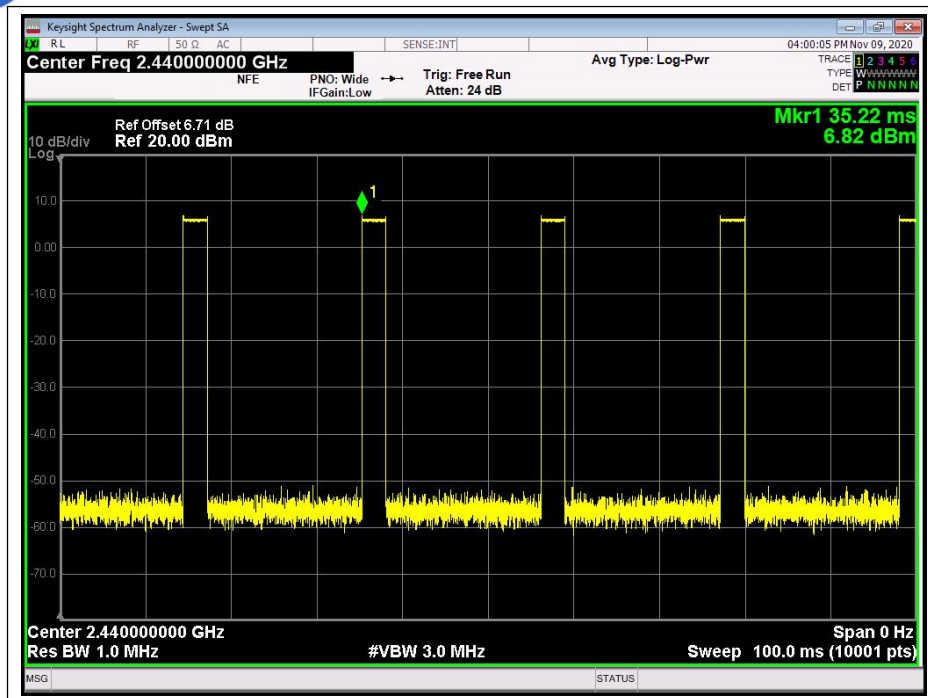
A. Test Verdict:

Test Mode	Frequency(MHz)	Duty Cycle (%) (D)	Duty Factor (10*lg[1/D])
ZigBee	2405	14.2	8.48
	2440	13.41	8.73
	2480	14.2	8.48

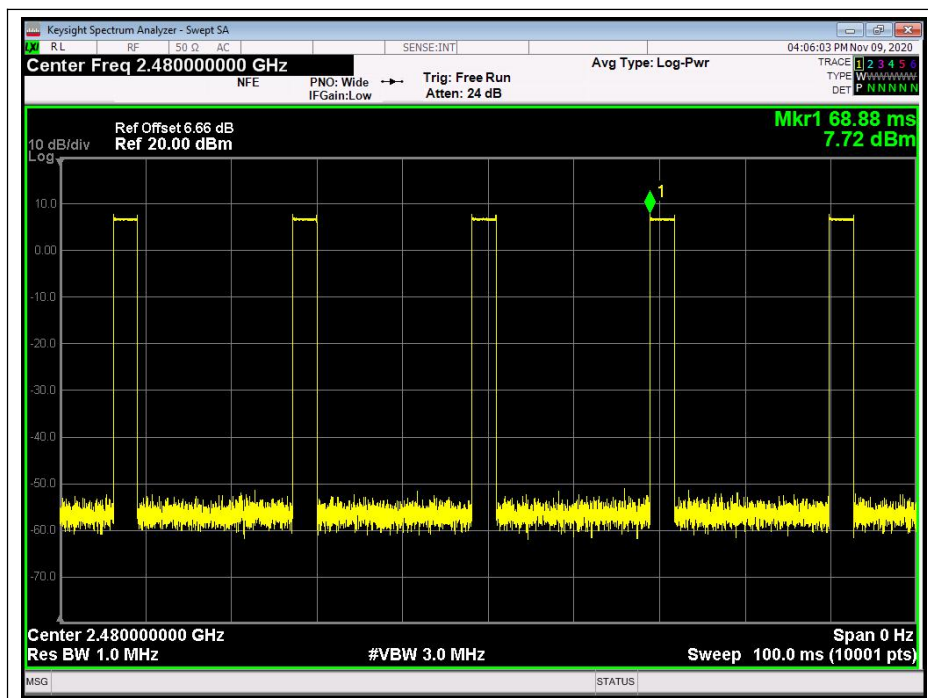
B. Test Plots:



(Channel 11,2405MHz)



(Channel 18,2440MHz)



(Channel 39,2480MHz)

2.3. Peak Output Power

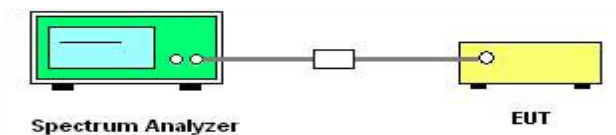
2.3.1. Requirement

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.

2.3.2. Test Description

The measured output power was calculated by the reading of the spectrum analyzer and calibration.

C. 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.

D. Equipments List:

Please refer ANNEX A (1.5).

2.3.3. 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 10MHz
- 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.



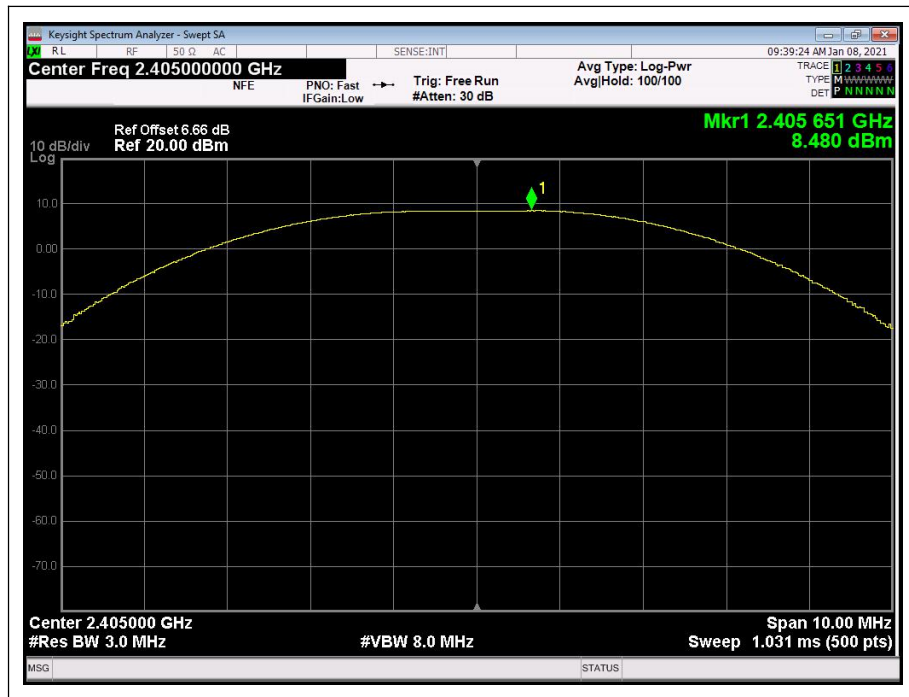
2.3.4. Test Result

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

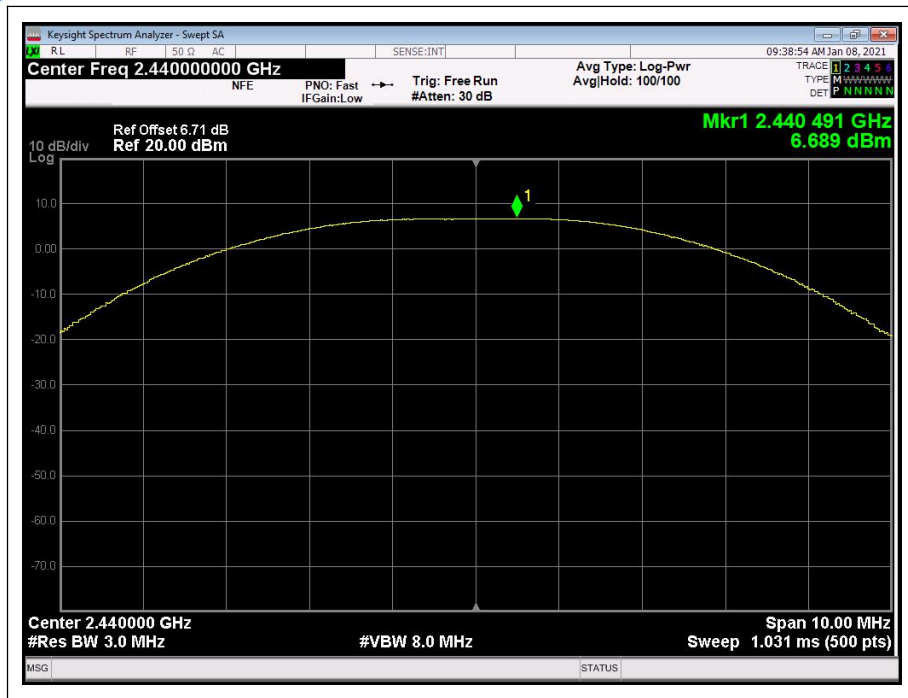
A. Test Verdict:

Channel	Frequency (MHz)	Measured Output Peak Power		Limit		Verdict
		dBm	W	dBm	W	
11	2405	8.480	0.007	30	1	PASS
18	2440	6.689	0.005			PASS
26	2480	7.728	0.006			PASS

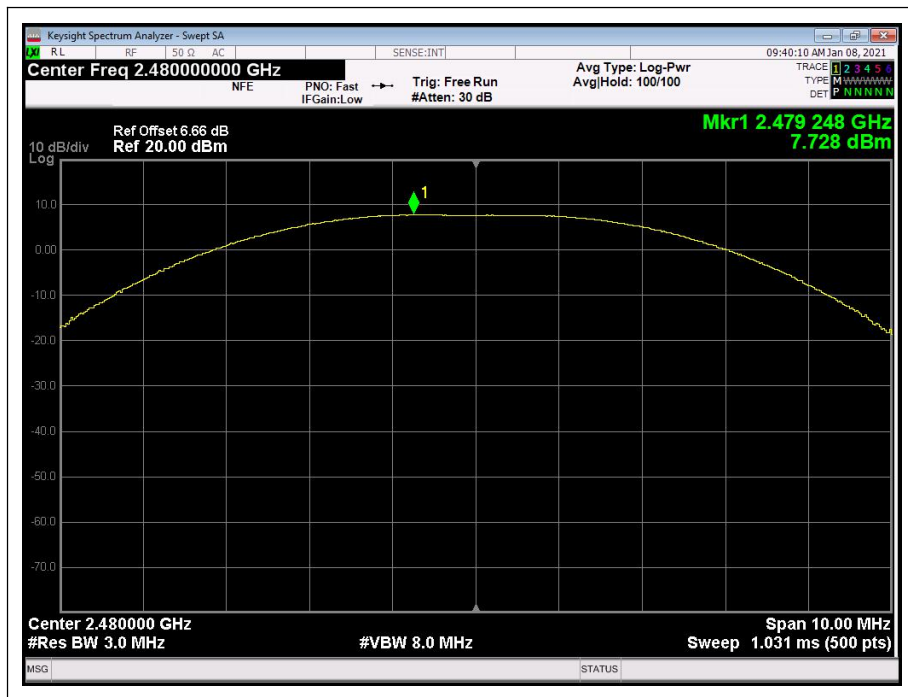
B. Test Plots:



(Channel 11,2405MHz)



(Channel 18,2440MHz)



(Channel 26, 2480MHz)

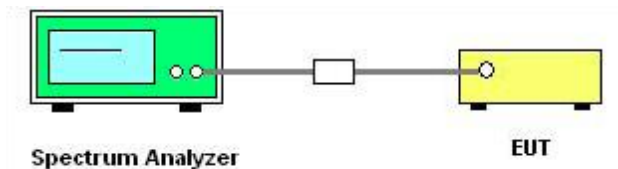
2.4. 6dB Bandwidth

2.4.1. 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.

2.4.2. Test Description

A. Test Set:



The EUT 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.

Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

B. Equipments List:

Please refer ANNEX A(1.5).

2.4.3. Test procedure

The steps for the first option are as follows:

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

- a) Set RBW = 100 kHz.
- b) Set the VBW=300 kHz.
- c) Detector = peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple
- f) Allow the trace to 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., $RBW = 100\text{ kHz}$, $VBW \geq 3 \times RBW$, and peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be $\geq 6\text{ dB}$.

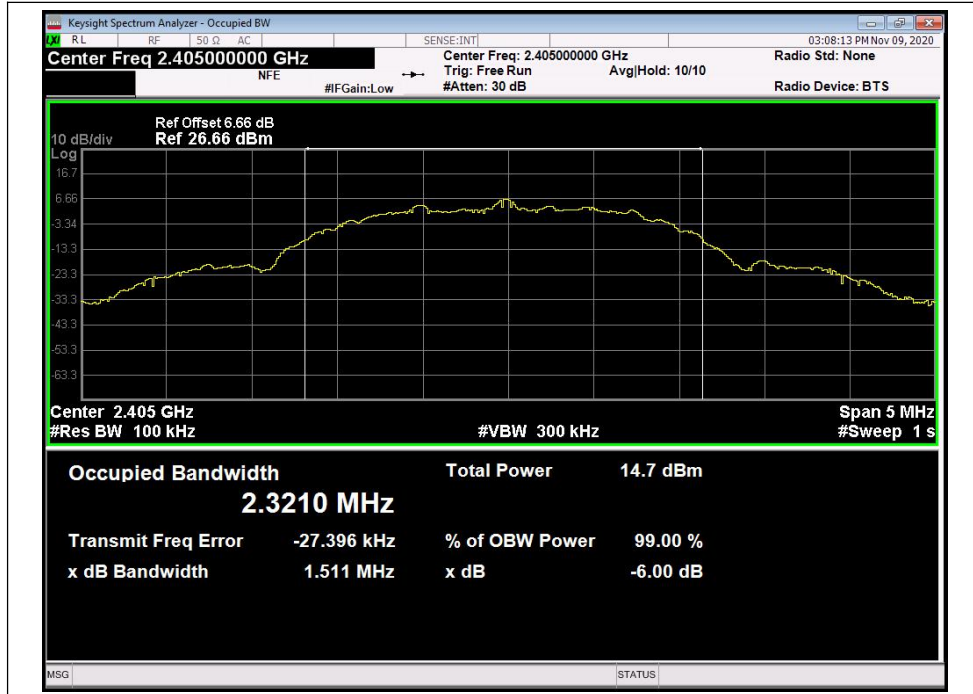
2.4.4. Test Result

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

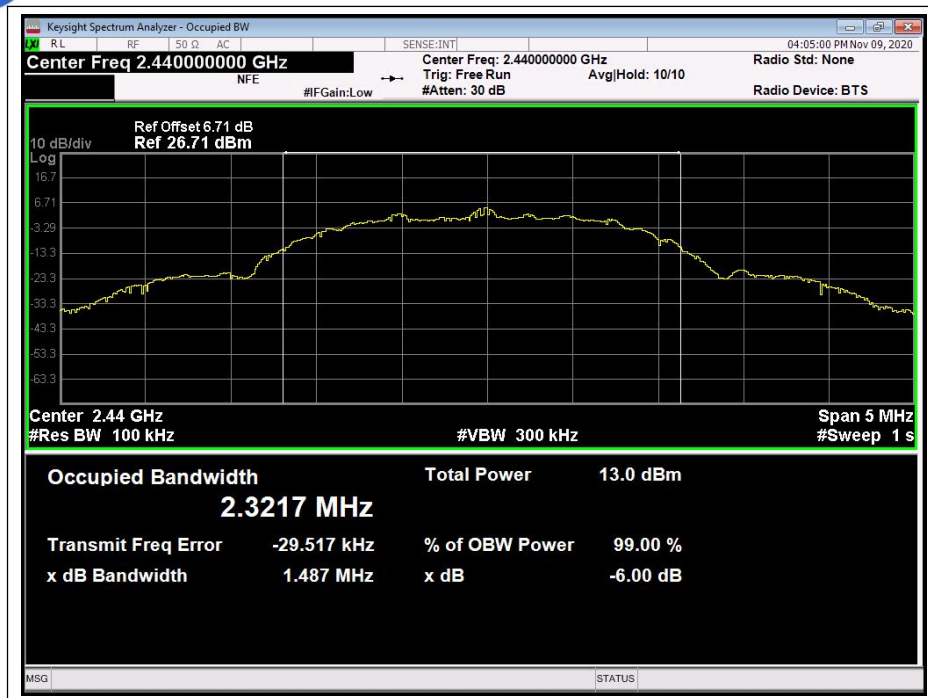
A. Test Verdict:

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limits(kHz)	Result
11	2405	1.511	≥ 500	PASS
18	2440	1.487	≥ 500	PASS
26	2480	1.489	≥ 500	PASS

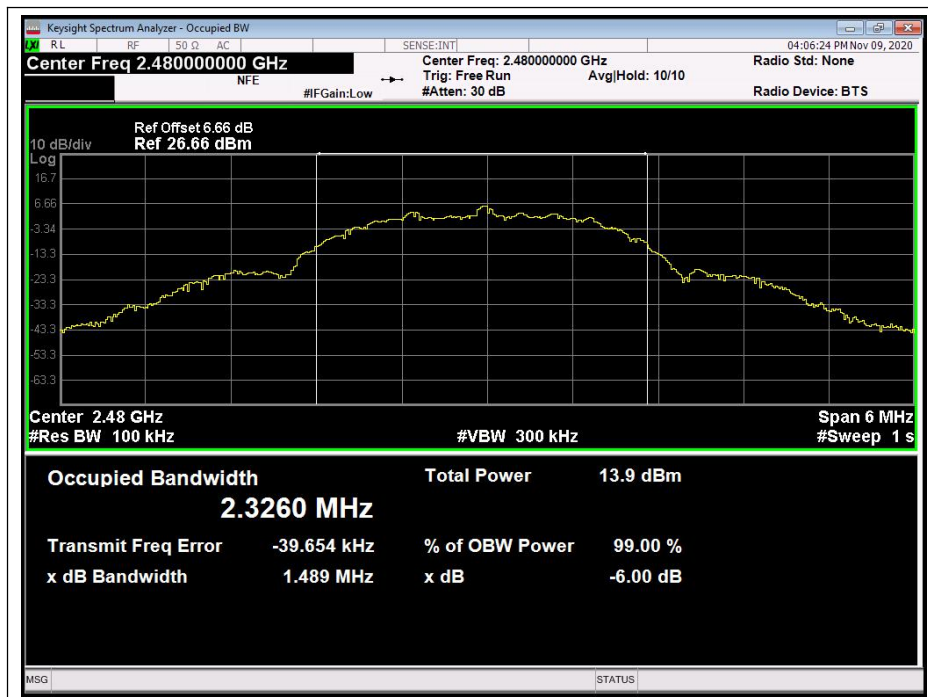
B. Test Plots:



(Channel 11: 2405MHz)



(Channel 18: 2440 MHz)



(Channel 26: 2480MHz)

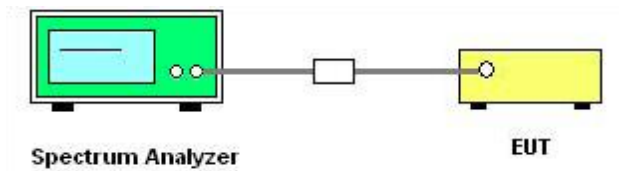
2.5. Conducted Spurious Emissions and Band Edge

2.5.1. 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.

2.5.2. Test Description

A. Test Set:



The EUT 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.

Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

B. Equipments List:

Please refer ANNEX A (1.5).

2.5.3. Test Procedure

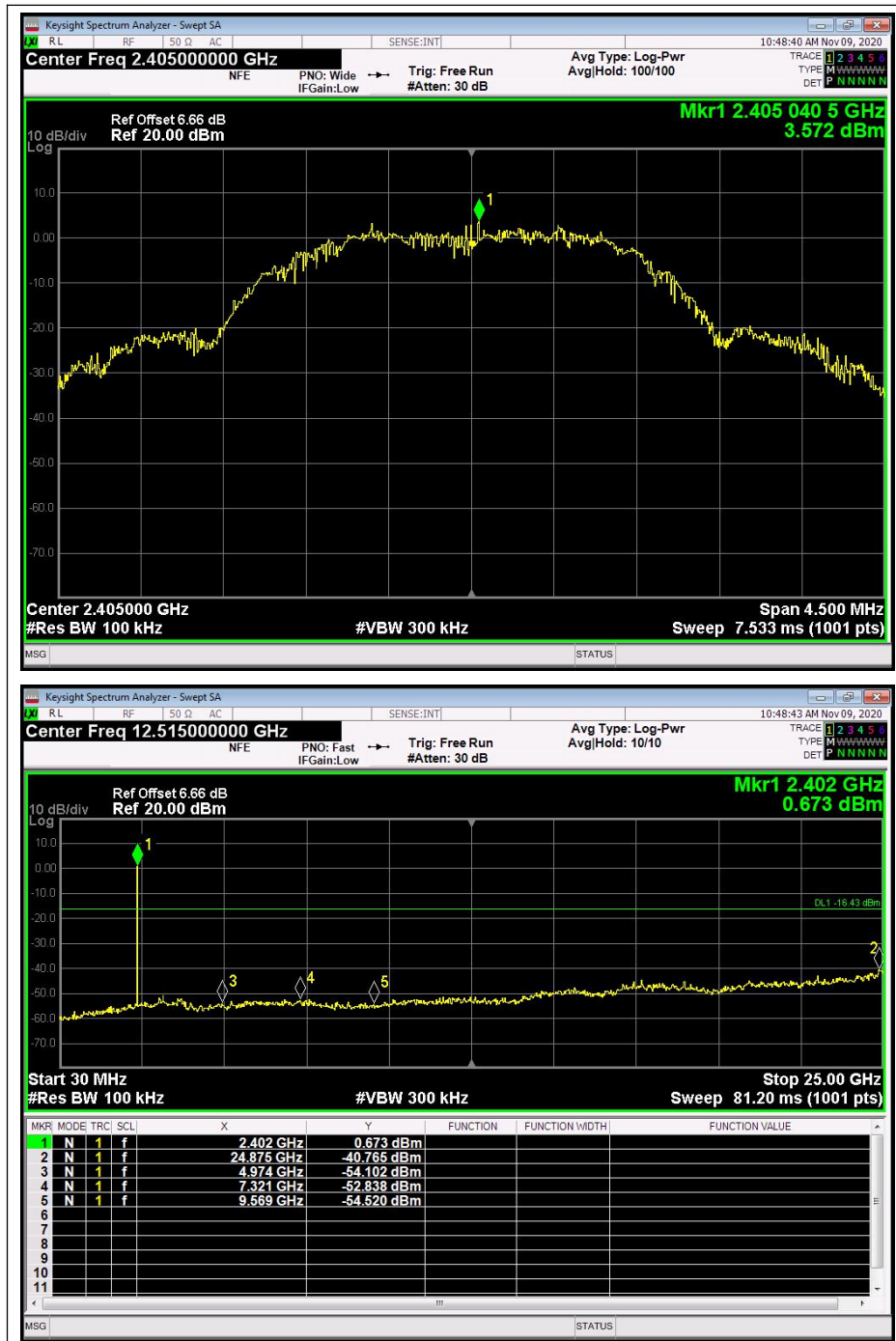
The transmitter output was connected to the spectrum analyzer via a low lose cable. Set both RBW and VBW of spectrum analyzer to 100kHz and 300kHz with suitable frequency span including 100 MHz bandwidth from band edge. The band edges was measured and recorded.

2.5.4. Test Result

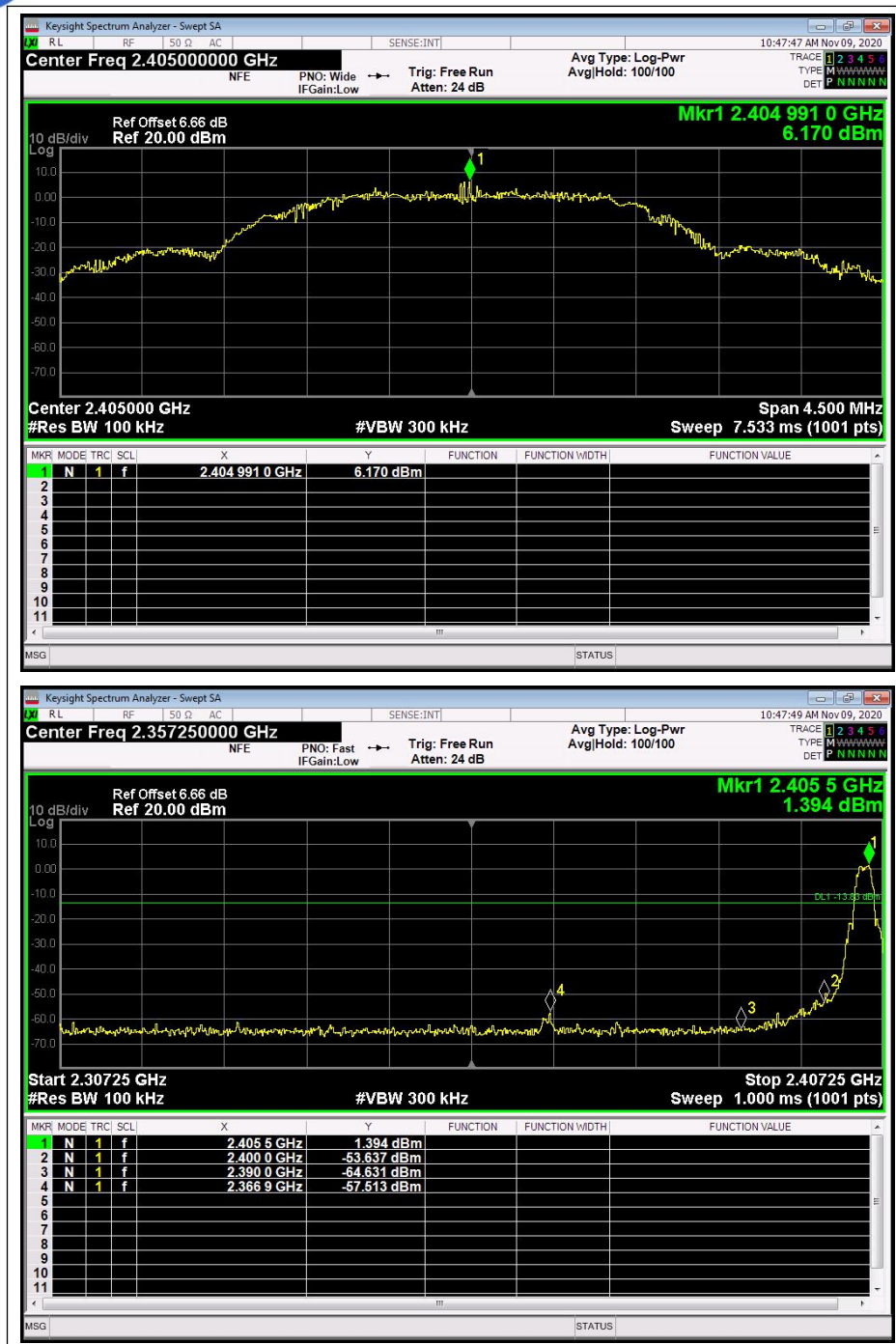
The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions.

**A. Test Plots:**

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



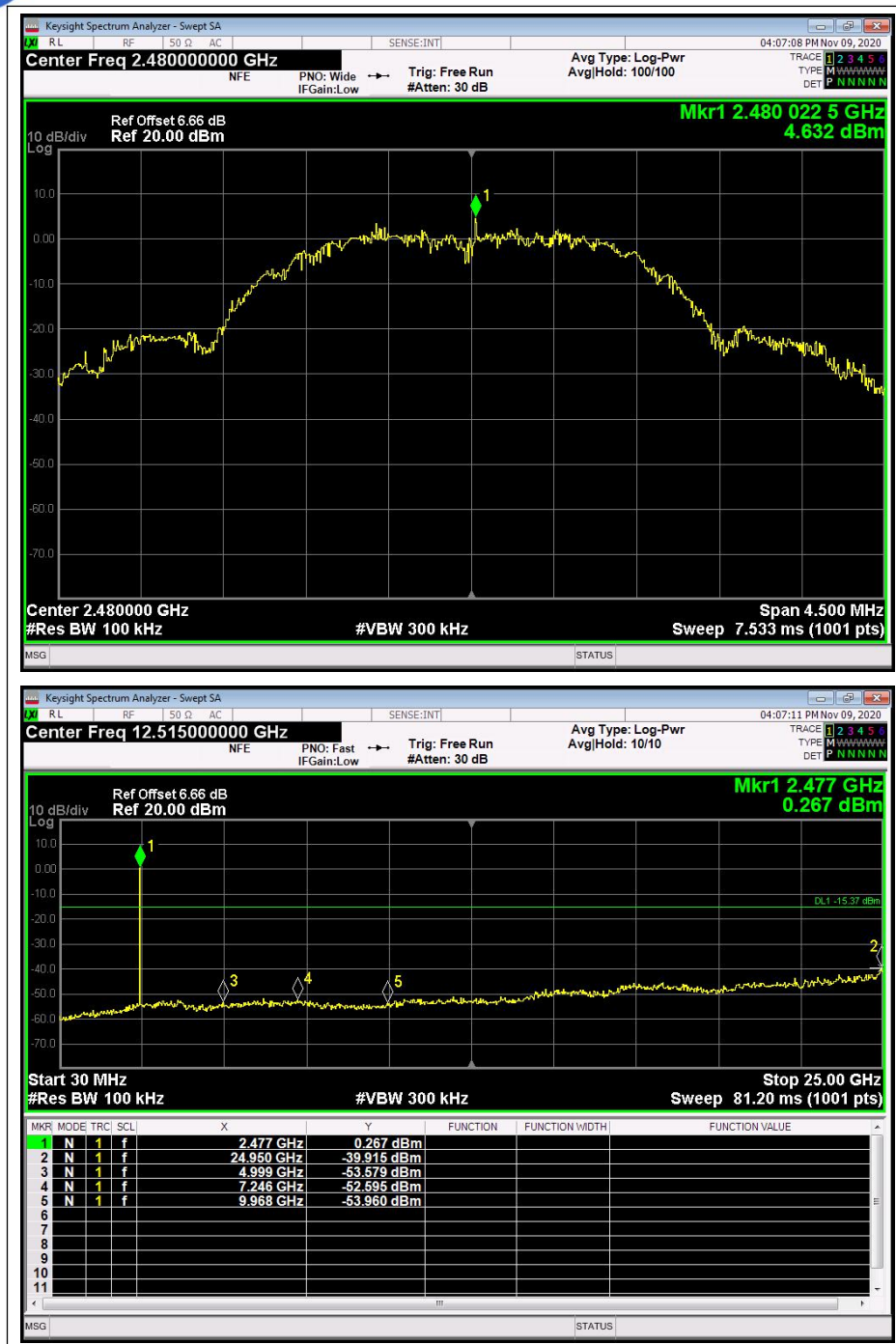
(Channel = 11, 30MHz to 25GHz)



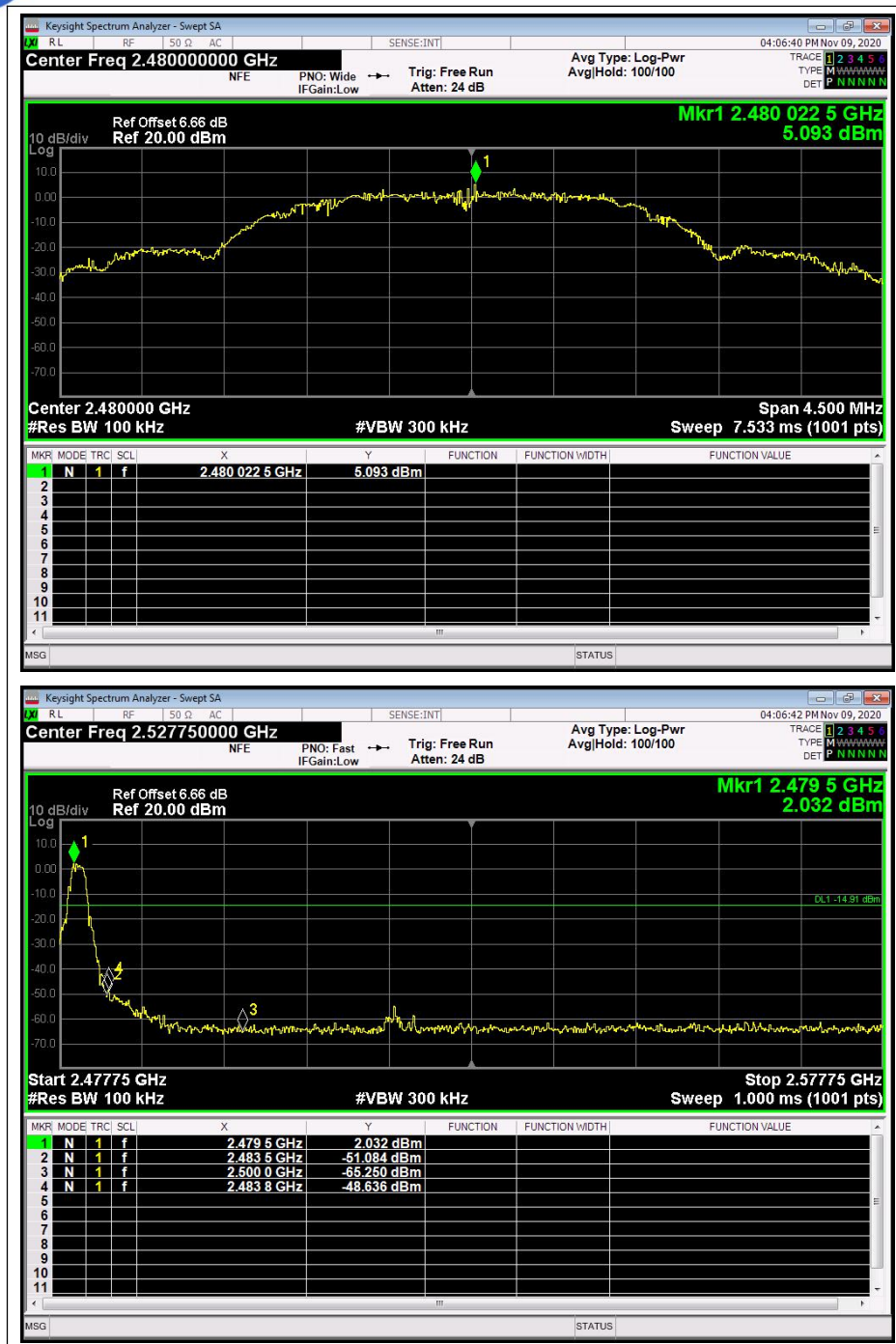
(Band Edge, Channel = 11)



(Channel = 18, 30MHz to 25GHz)



(Channel = 26, 30MHz to 25GHz)



(Band Edge, Channel = 26)

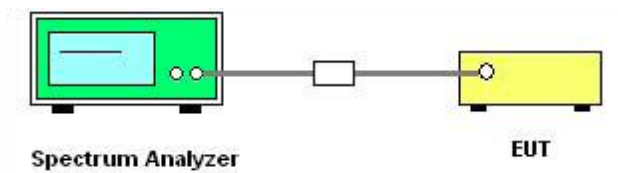
2.6. Power spectral density (PSD)

2.6.1. 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.

2.6.2. Test Description

A. Test Set:



The EUT 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.

B. Equipments List:

Please refer ANNEX A (1.5).

2.6.3. 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:

- Set analyzer center frequency to channel center frequency.
- Set the span to 1.5 times DTS
- Set the RBW to 3 kHz
- Set the VBW to 10 kHz
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level within the RBW.



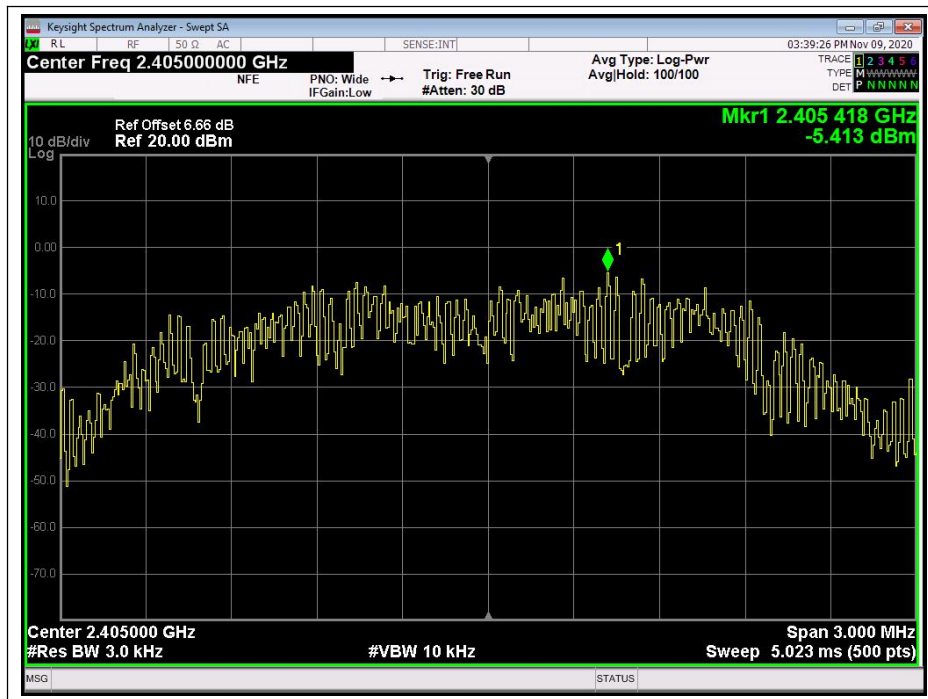
2.6.4. Test Result

The lowest, middle and highest channels are tested.

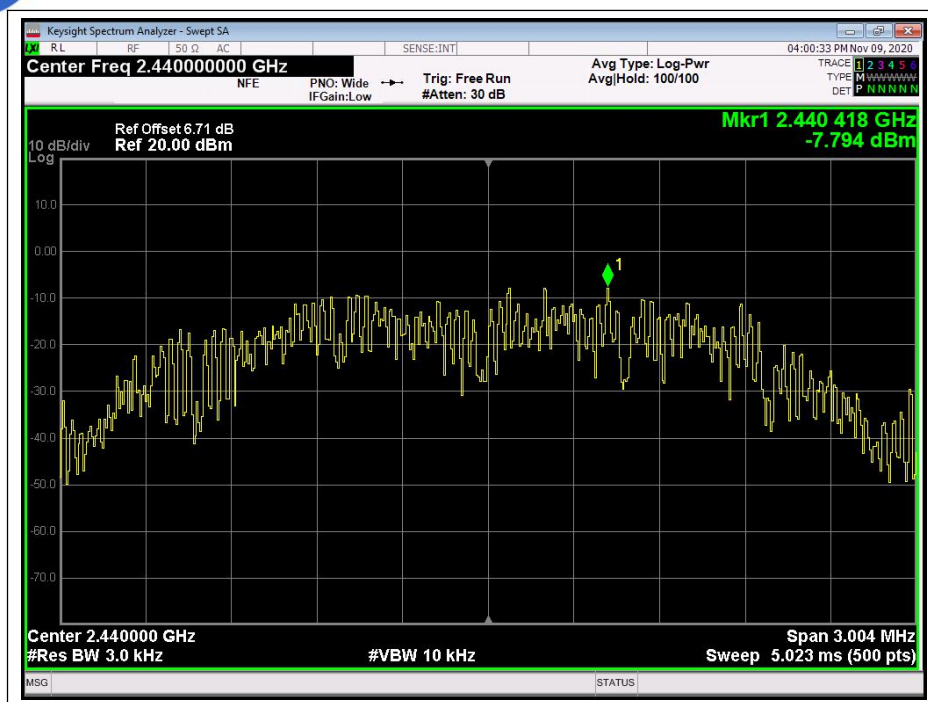
A. Test Verdict:

Spectral power density (dBm/3kHz)				
Channel	Frequency (MHz)	Measured PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
11	2405	-5.413	8	PASS
18	2440	-7.794	8	PASS
26	2480	-6.641	8	PASS
Measurement uncertainty: ± 1.3 dB				

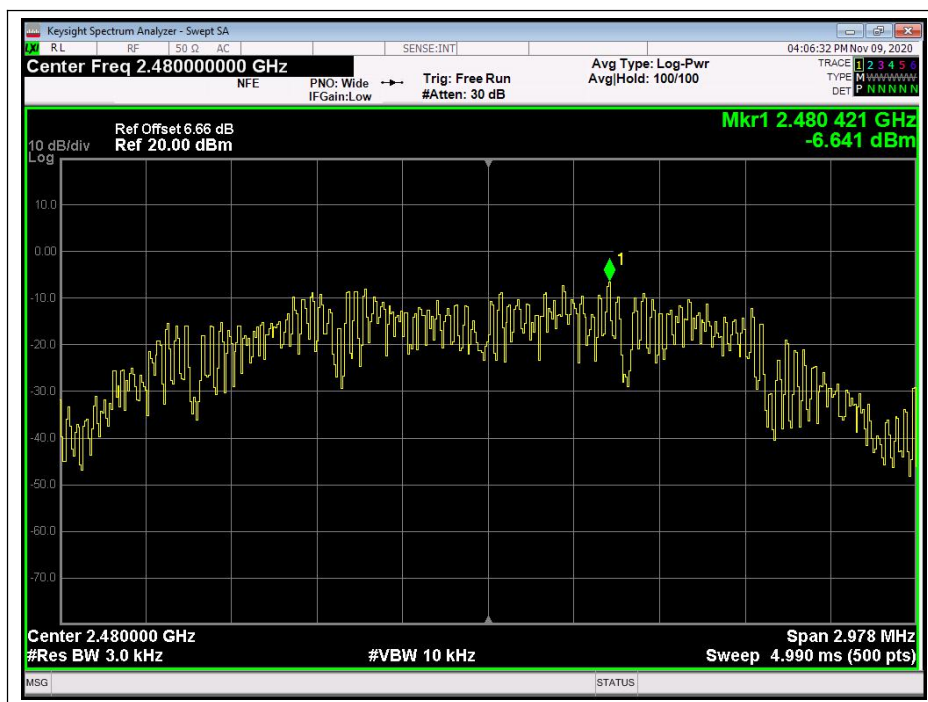
B. Test Plots:



(Channel = 11, 2405MHz)



(Channel = 18, 2440MHz)



(Channel = 26, 2480MHz)

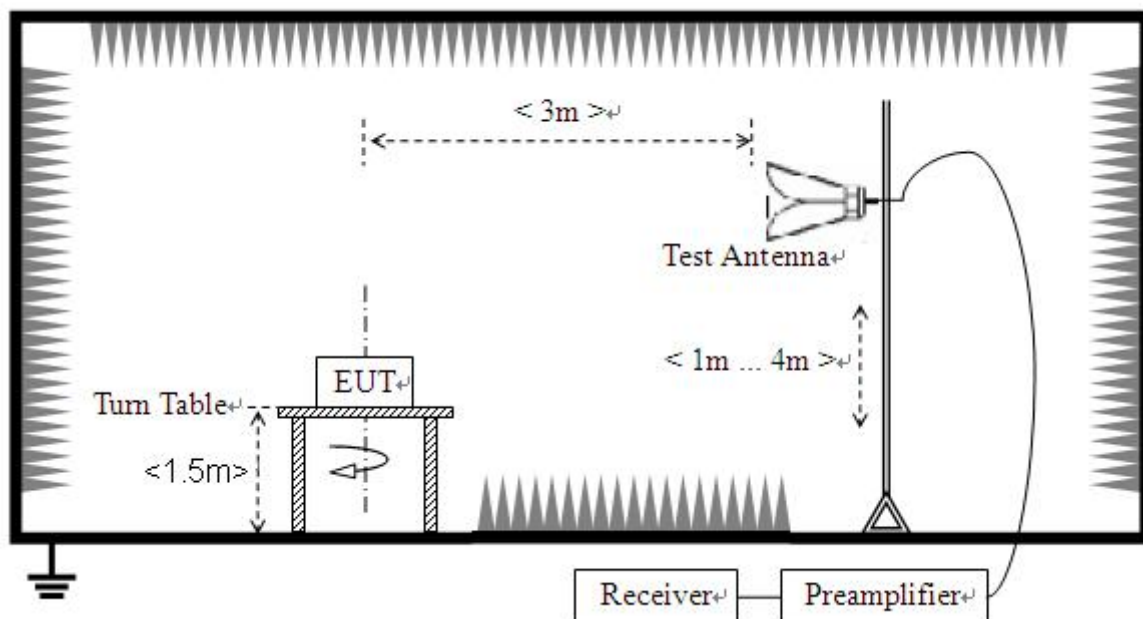
2.7. Restricted Frequency Bands

2.7.1. 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).

2.7.2. Test Description

A. Test Setup



- 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.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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 $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle $\geq 98\%$) 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).



2.7.3. Test Result

The lowest and highest channels are tested to verify Restricted Frequency Bands.

The measurement results are obtained as below:

$$E [\text{dB}\mu\text{V/m}] = U_R + A_T + A_{\text{Factor}} [\text{dB}]; A_T = L_{\text{Cable loss}} [\text{dB}] - G_{\text{preamp}} [\text{dB}]$$

A_T : Total correction Factor except Antenna

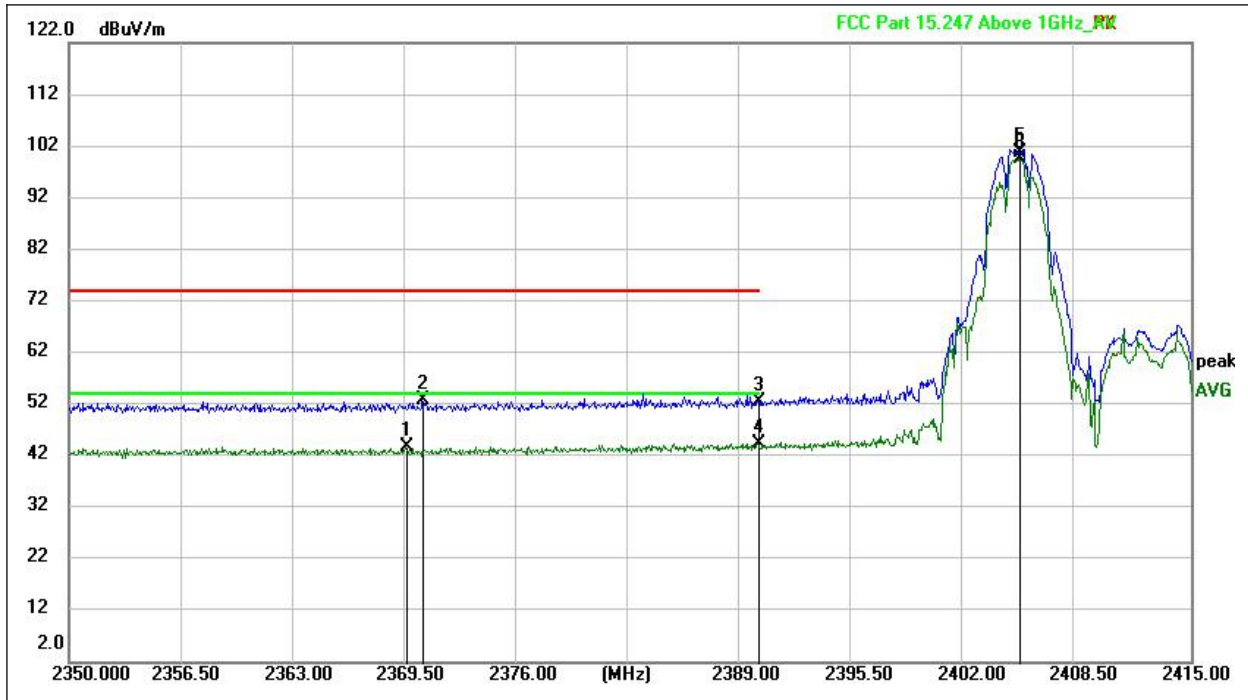
U_R : Receiver Reading

G_{preamp} : Preamplifier Gain

A_{Factor} : Antenna Factor at 3m

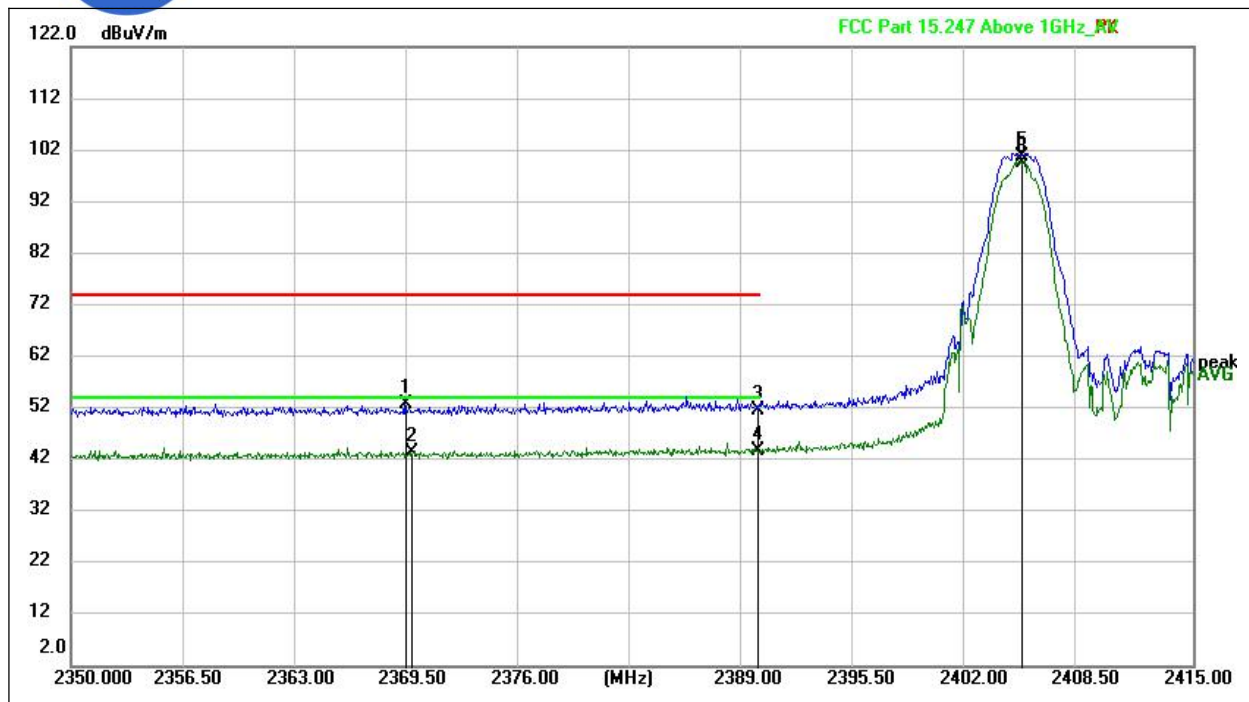


Test Plots:



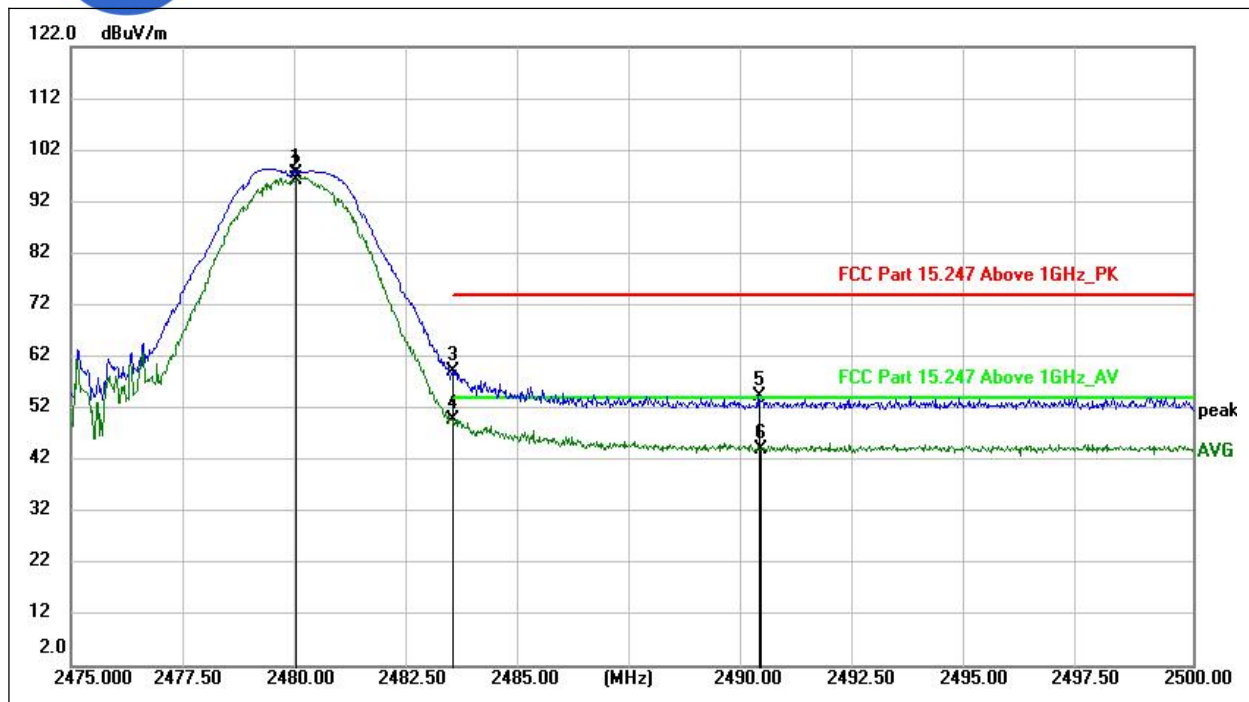
(BLE 1M PHY_2405MHz, Antenna Horizontal)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
2369.532	3.50	40.14	43.64	54.00	-10.36	AVG	H
2370.540	12.51	40.15	52.66	74.00	-21.34	peak	H
2389.946	11.58	40.96	52.54	74.00	-21.46	peak	H
2389.946	3.45	40.96	44.41	54.00	-9.59	AVG	H
2405.058	59.16	41.45	100.61	N/A	N/A	peak	H
2405.058	57.96	41.45	99.41	N/A	N/A	AVG	H



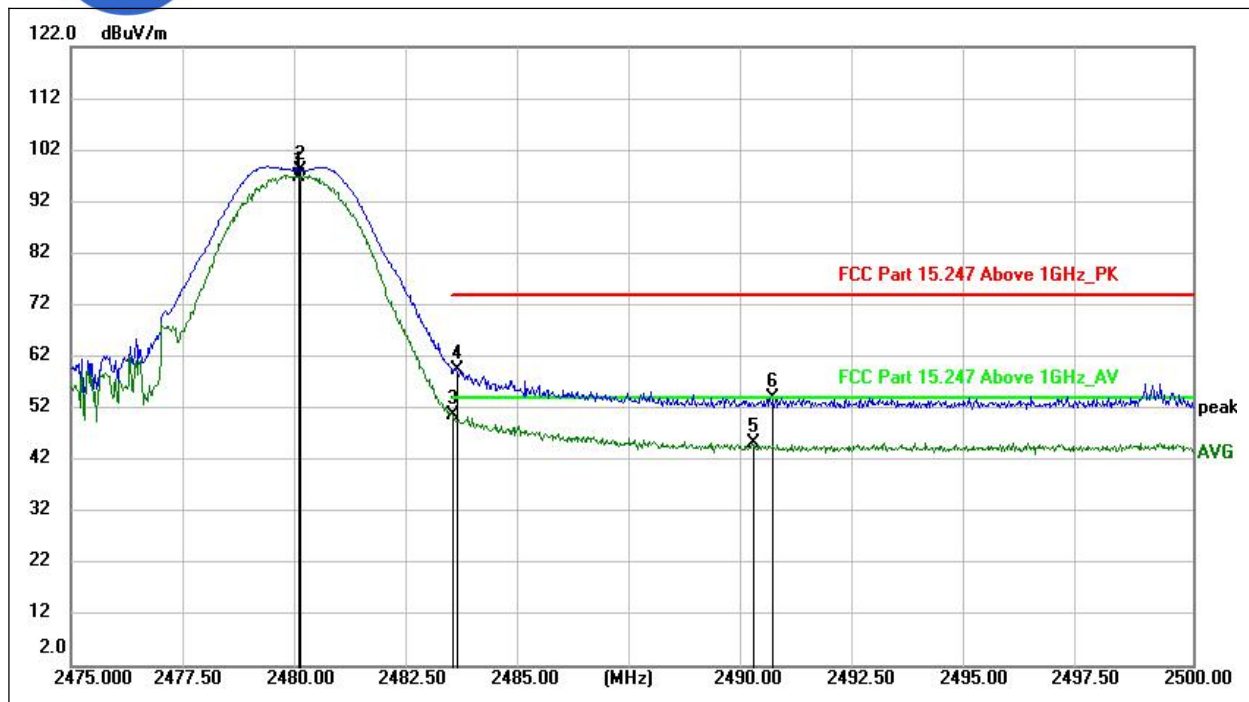
(LE 1M PHY_2405MHz, Antenna Vertical)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
2369.376	12.66	40.14	52.80	74.00	-21.20	peak	V
2369.708	3.45	40.14	43.59	54.00	-10.41	AVG	V
2389.845	10.78	40.95	51.73	74.00	-22.27	peak	V
2389.845	2.88	40.95	43.83	54.00	-10.17	AVG	V
2405.084	59.38	41.45	100.83	N/A	N/A	peak	V
2405.084	58.06	41.45	99.51	N/A	N/A	AVG	V



(LE 1M PHY_2480MHz, Antenna Horizontal)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
2480.019	55.80	41.77	97.57	N/A	N/A	peak	H
2480.019	54.49	41.77	96.26	N/A	N/A	AVG	H
2483.503	17.25	41.76	59.01	74.00	-14.99	peak	H
2483.503	8.10	41.76	49.86	54.00	-4.14	AVG	H
2490.340	12.71	41.55	54.26	74.00	-19.74	peak	H
2490.367	2.60	41.55	44.15	54.00	-9.85	AVG	H



(LE 1M PHY_2480MHz, Antenna Vertical)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
2480.057	54.94	41.77	96.71	N/A	N/A	AVG	V
2480.099	56.28	41.76	98.04	N/A	N/A	peak	V
2483.512	8.95	41.76	50.71	54.00	-3.29	AVG	V
2483.576	17.57	41.77	59.34	74.00	-14.66	peak	V
2490.180	3.60	41.56	45.16	54.00	-8.84	AVG	V
2490.617	12.38	41.54	53.92	74.00	-20.08	peak	V

2.8. Conducted Emission

2.8.1. 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 50 μ H/50 Ω line impedance stabilization network (LISN).

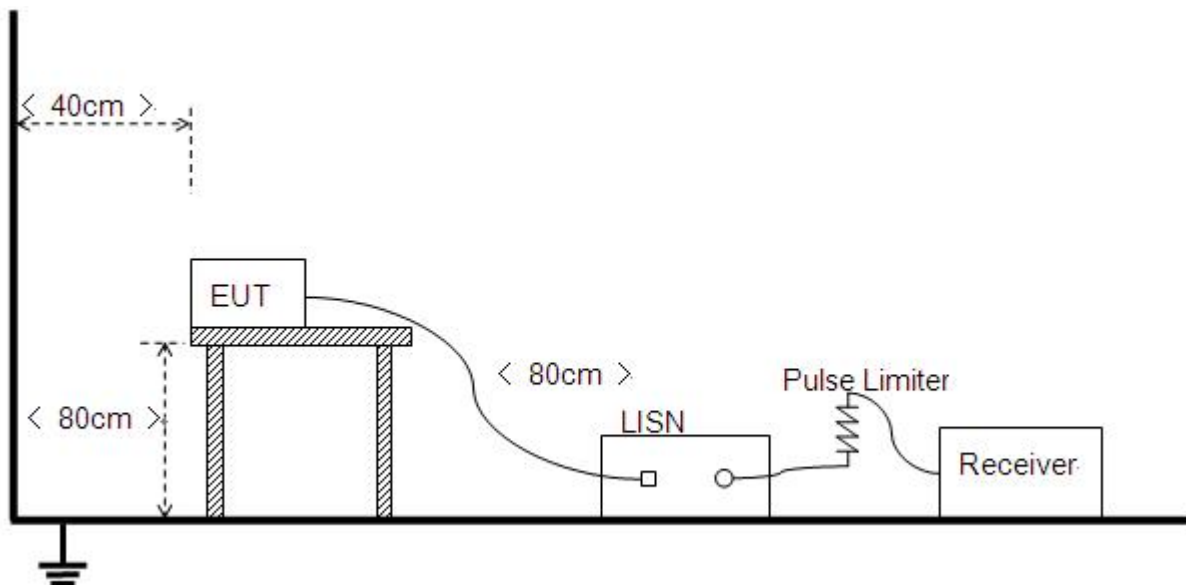
Frequency range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

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.

2.8.2. 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 A(1.5).

2.8.3. 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.

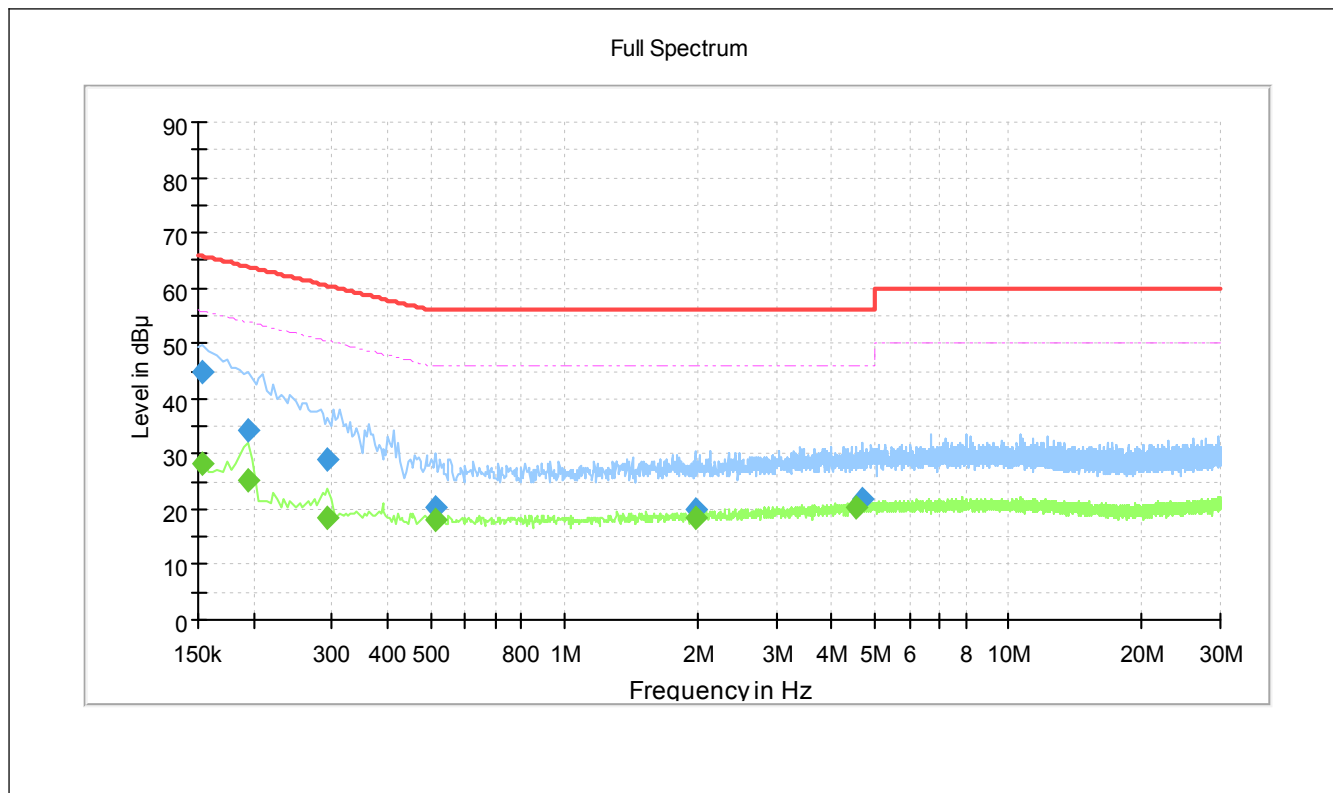
Note: Both of the test voltage AC 120V/60Hz and AC 230V/50Hz were considered and tested respectively, only the results of the worst case AC 120V/60Hz were recorded in this report.

A. Test setup:

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

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

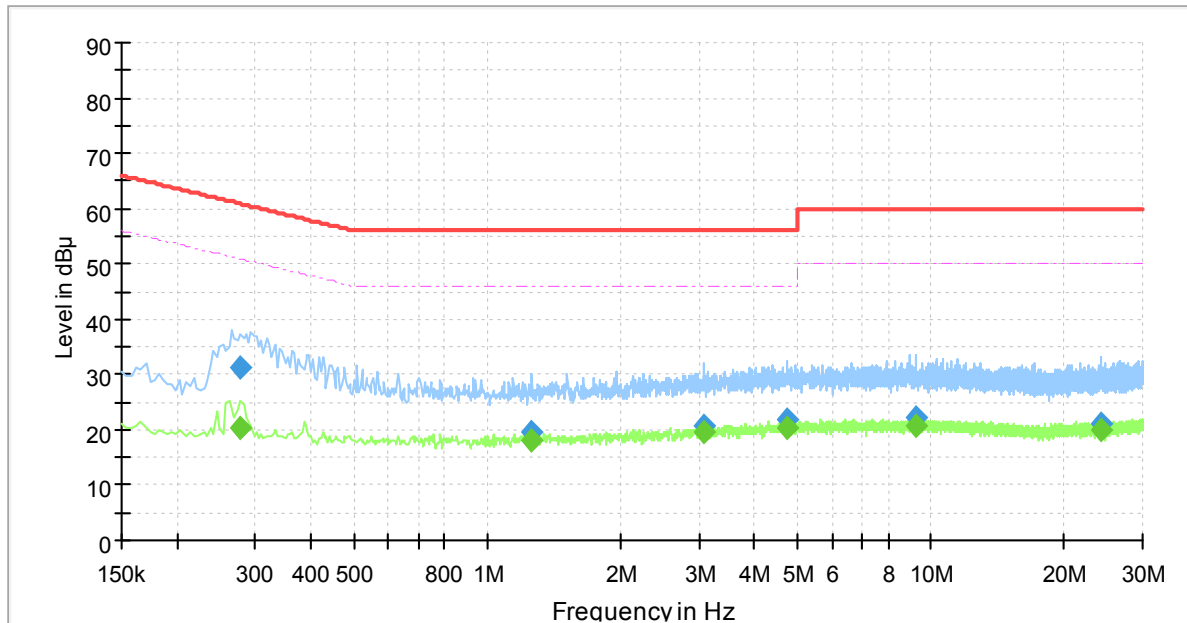
B. Test Plots:



(Plot A: L Phase)

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.154000	---	28.12	55.78	27.66	L1	10.2
0.154000	44.63	---	65.78	21.15	L1	10.2
0.194000	---	25.41	53.86	28.46	L1	10.2
0.194000	34.10	---	63.86	29.76	L1	10.2
0.294000	---	18.34	50.41	32.07	L1	10.2
0.294000	29.05	---	60.41	31.36	L1	10.2
0.514000	20.20	---	56.00	35.80	L1	10.2
0.514000	---	17.98	46.00	28.02	L1	10.2
1.970000	20.08	---	56.00	35.92	L1	10.3
1.970000	---	18.48	46.00	27.52	L1	10.3
4.522000	---	20.16	46.00	25.84	L1	10.4
4.678000	21.68	---	56.00	34.32	L1	10.4

Full Spectrum



(Plot B: N Phase)

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.278000	---	20.50	50.88	30.37	N	10.2
0.278000	31.39	---	60.88	29.49	N	10.2
1.262000	---	18.15	46.00	27.85	N	10.3
1.262000	19.48	---	56.00	36.52	N	10.3
3.070000	---	19.40	46.00	26.60	N	10.3
3.070000	20.68	---	56.00	35.32	N	10.3
4.754000	21.82	---	56.00	34.18	N	10.4
4.754000	---	20.29	46.00	25.71	N	10.4
9.270000	22.17	---	60.00	37.83	N	10.5
9.270000	---	20.58	50.00	29.42	N	10.5
24.098000	---	20.08	50.00	29.92	N	10.6
24.098000	21.05	---	60.00	38.95	N	10.6



2.9. Radiated Emission

2.9.1. 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 ($\mu\text{V/m}$)	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
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Note:

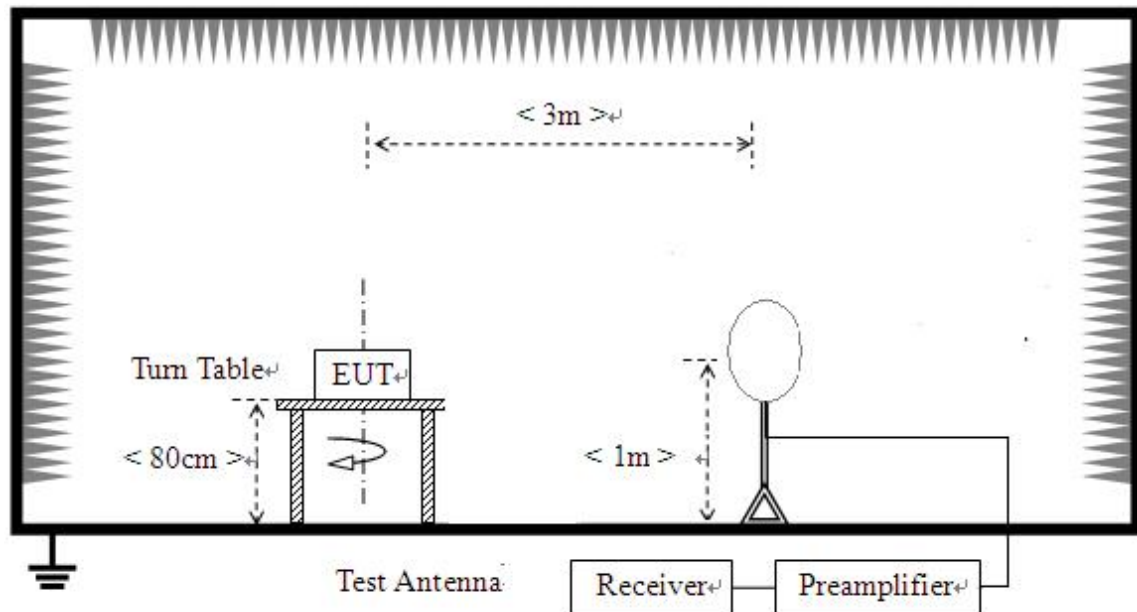
1. For Above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.
2. For above 1000MHz, limit field strength 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)

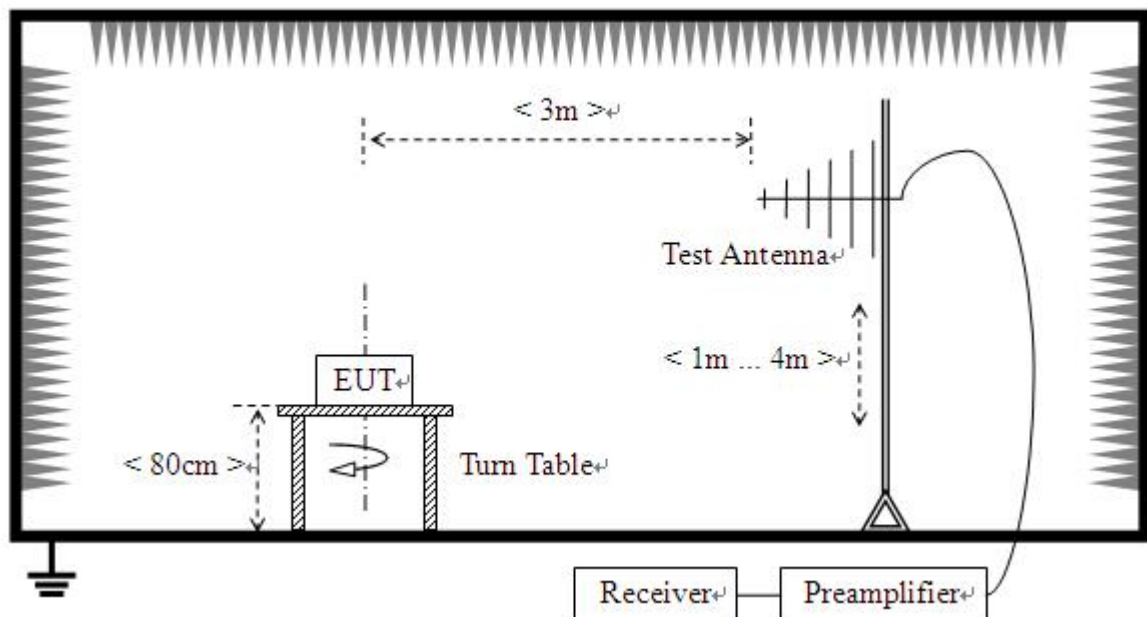
2.9.2. Test Description

A. Test Setup:

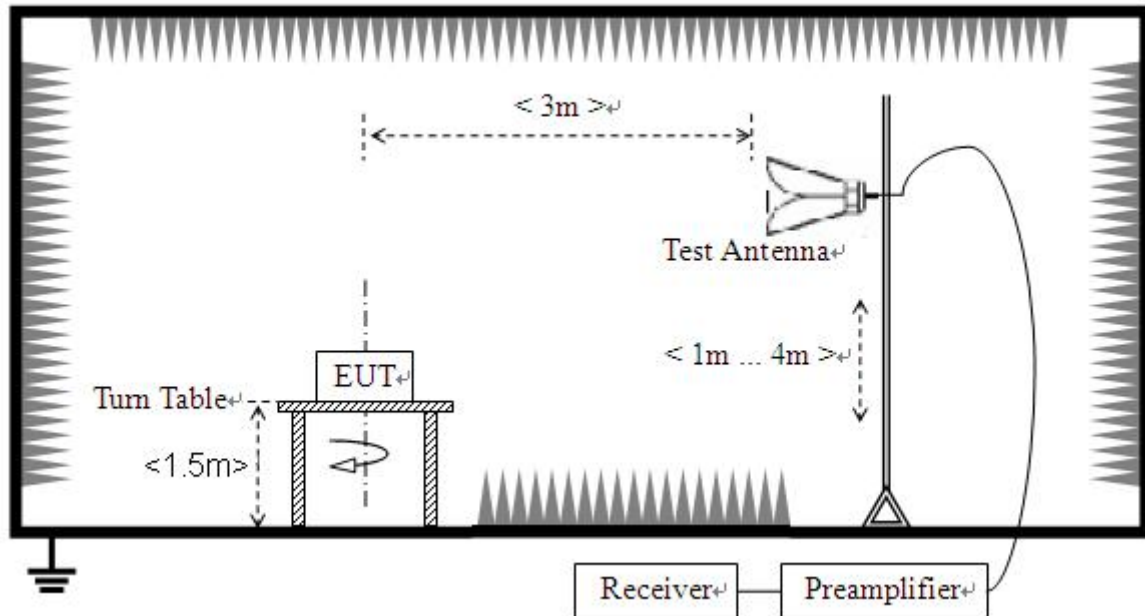
- 1) For radiated emissions from 9kHz to 30MHz



- 2) For radiated emissions from 30MHz to 1GHz



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:

- 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.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- 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.
- 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 $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

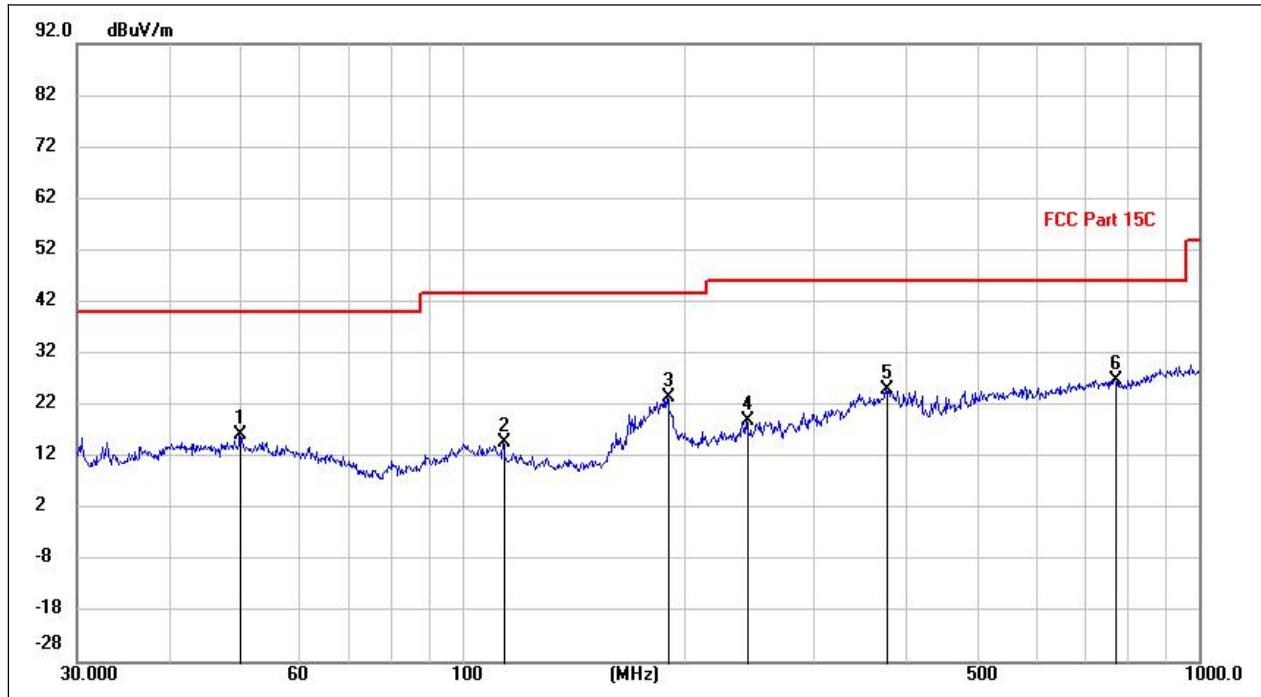
B. Equipments List:

Please refer ANNEX B(4).

2.9.3. Test Result

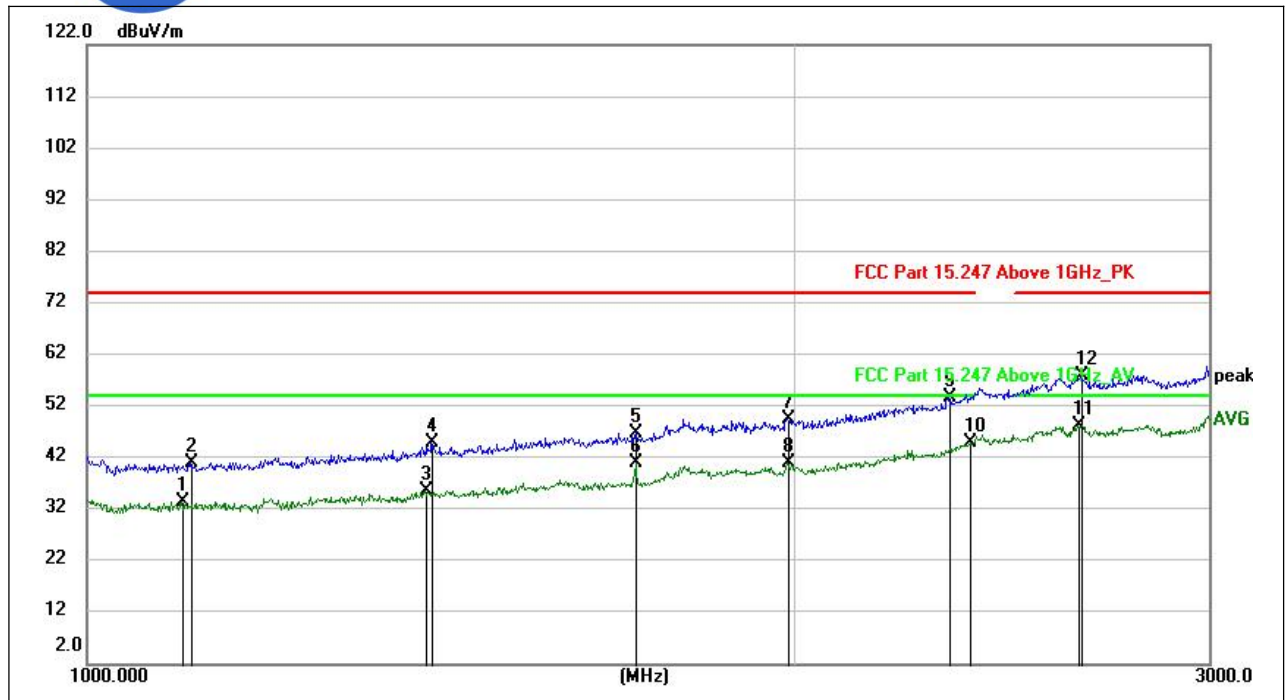
Note1: For the frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

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.



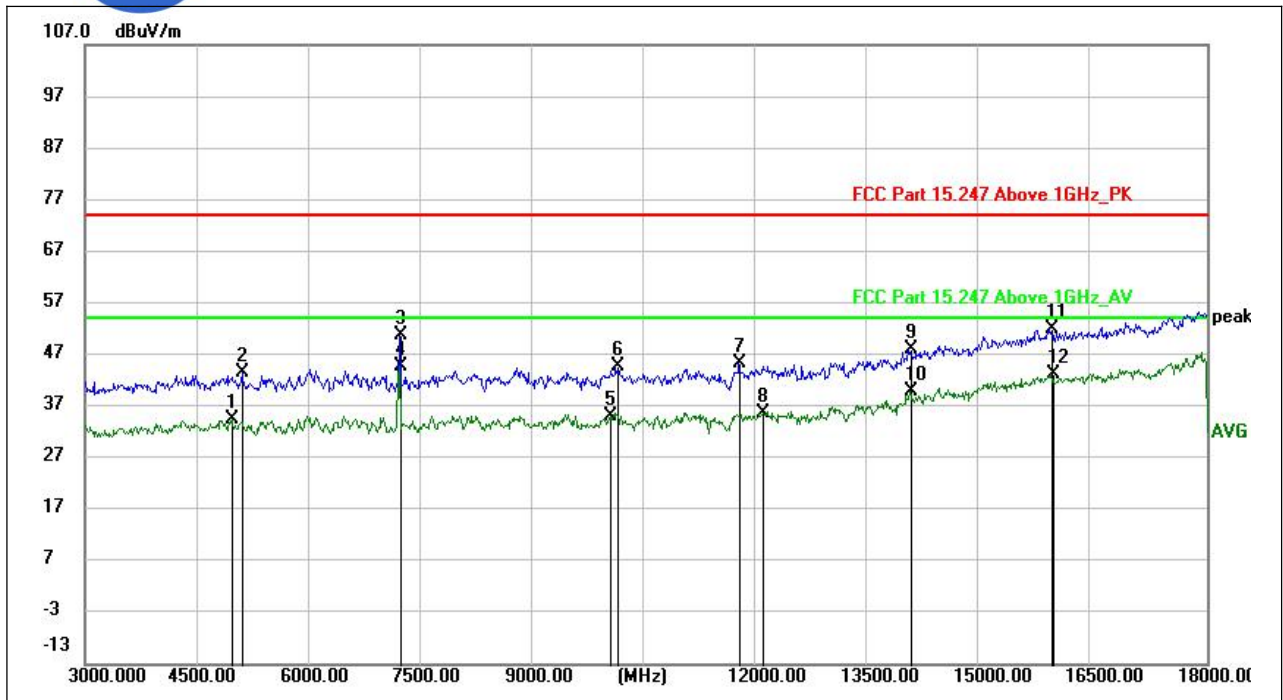
(LE 1M PHY_2405MHz, Antenna Horizontal, 30MHz to 1GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
50.0040	0.05	16.20	16.25	40.00	-23.75	peak	H
113.8540	1.29	13.50	14.79	43.50	-28.71	peak	H
189.8050	10.07	13.45	23.52	43.50	-19.98	peak	H
244.1893	3.91	14.87	18.78	46.00	-27.22	peak	H
376.2023	6.23	18.58	24.81	46.00	-21.19	peak	H
768.8830	0.64	26.17	26.81	46.00	-19.19	peak	H



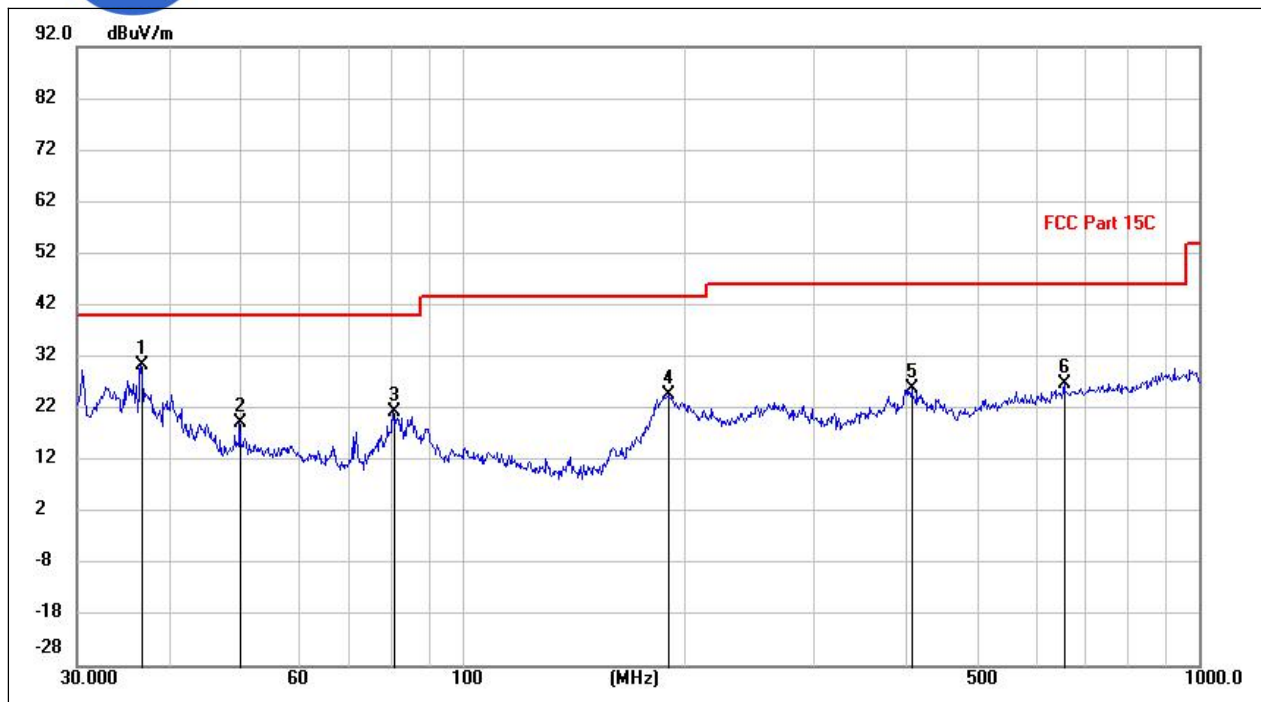
(LE 1M PHY _2405MHz, Antenna Horizontal, 1GHz to 3GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
1097.821	3.40	30.17	33.57	54.00	-20.43	AVG	H
1107.999	10.74	30.20	40.94	74.00	-33.06	peak	H
1393.677	2.30	33.34	35.64	54.00	-18.36	AVG	H
1402.432	11.61	33.41	45.02	74.00	-28.98	peak	H
1712.844	11.64	35.27	46.91	74.00	-27.09	peak	H
1712.844	5.79	35.27	41.06	54.00	-12.94	AVG	H
1986.795	11.58	38.01	49.59	74.00	-24.41	peak	H
1986.795	2.99	38.01	41.00	54.00	-13.00	AVG	H
2327.077	12.29	41.41	53.70	74.00	-20.30	peak	H
2375.118	2.73	42.19	44.92	54.00	-9.08	AVG	H
2641.041	3.28	45.14	48.42	54.00	-5.58	AVG	H
2649.032	12.52	45.49	58.01	74.00	-15.99	peak	H



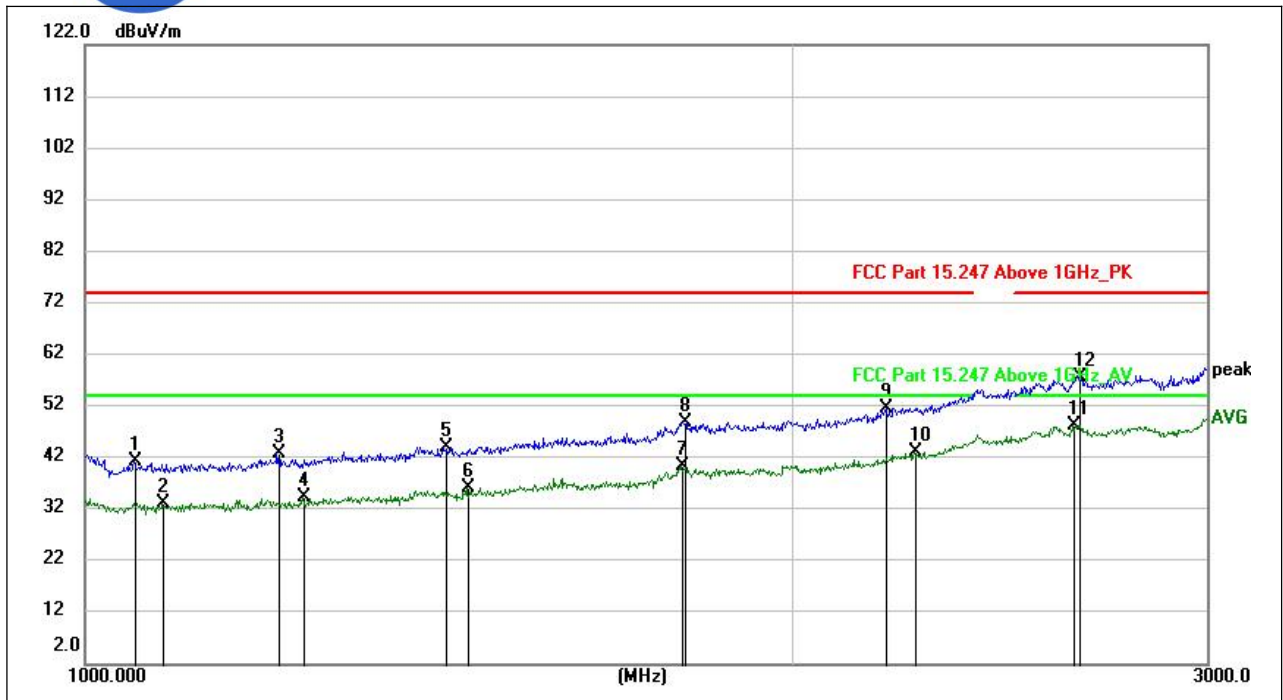
(LE 1M PHY _2405MHz, Antenna Horizontal, 3GHz to 18GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
4976.250	37.90	-3.31	34.59	54.00	-19.41	AVG	H
5109.000	46.59	-3.05	43.54	74.00	-30.46	peak	H
7216.500	51.09	-0.39	50.70	74.00	-23.30	peak	H
7216.500	44.99	-0.39	44.60	54.00	-9.40	AVG	H
10023.750	33.41	1.82	35.23	54.00	-18.77	AVG	H
10114.500	42.46	2.24	44.70	74.00	-29.30	peak	H
11749.500	41.29	3.92	45.21	74.00	-28.79	peak	H
12072.750	31.54	4.20	35.74	54.00	-18.26	AVG	H
14027.250	39.75	8.19	47.94	74.00	-26.06	peak	H
14037.000	31.67	8.24	39.91	54.00	-14.09	AVG	H
15916.500	41.08	11.02	52.10	74.00	-21.90	peak	H
15934.500	32.13	11.12	43.25	54.00	-10.75	AVG	H



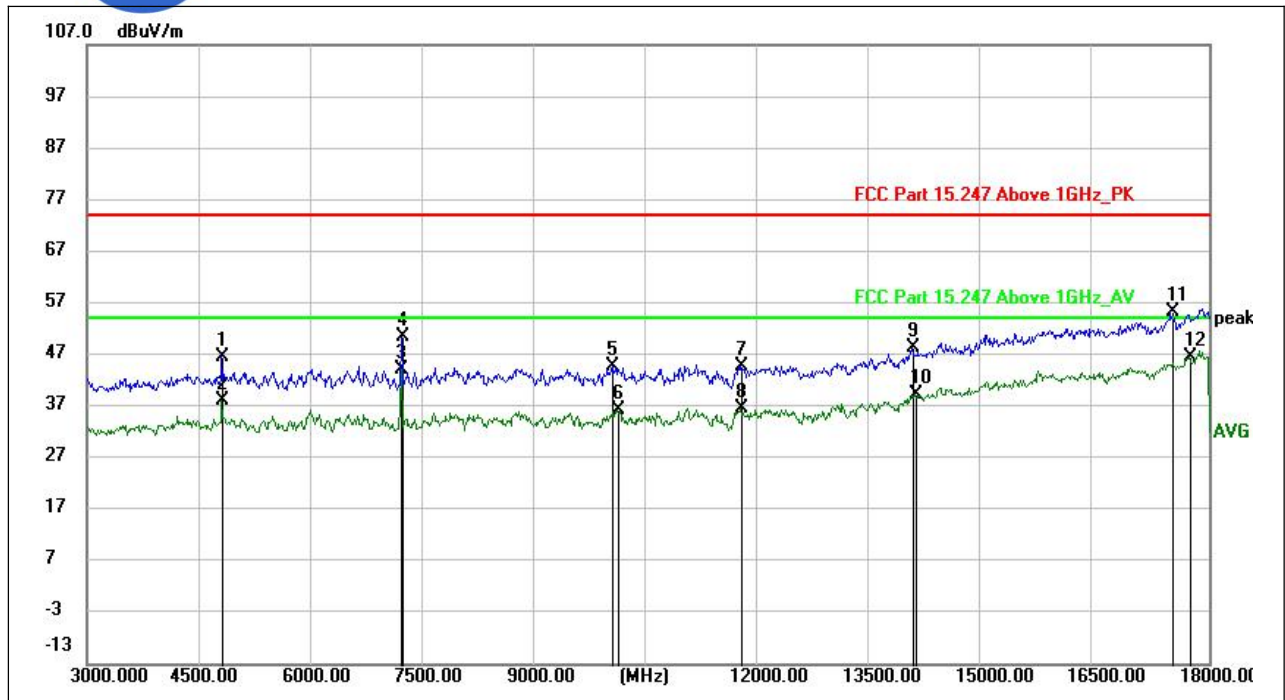
(LE 1M PHY _2405MHz, Antenna Vertical, 30MHz to 1GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
36.6632	16.90	13.41	30.31	40.00	-9.69	peak	V
50.0303	2.96	16.19	19.15	40.00	-20.85	peak	V
80.8707	10.89	10.53	21.42	40.00	-18.58	peak	V
190.6723	11.23	13.47	24.70	43.50	-18.80	peak	V
408.8026	7.09	18.75	25.84	46.00	-20.16	peak	V
657.3362	2.22	24.36	26.58	46.00	-19.42	peak	V



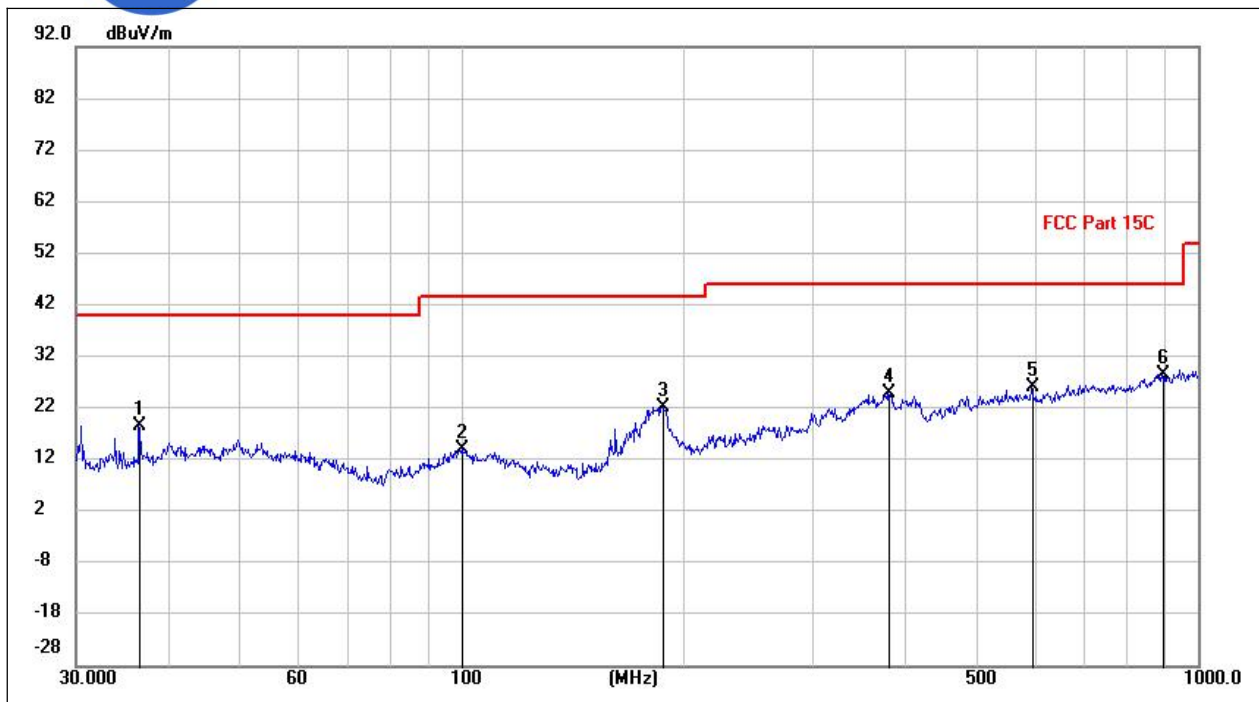
(LE 1M PHY _2405MHz, Antenna Vertical , 1GHz to 3GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
1050.565	11.06	30.38	41.44	74.00	-32.56	peak	V
1079.581	2.97	30.16	33.13	54.00	-20.87	AVG	V
1208.061	11.38	31.41	42.79	74.00	-31.21	peak	V
1238.771	3.17	31.26	34.43	54.00	-19.57	AVG	V
1422.918	11.02	33.07	44.09	74.00	-29.91	peak	V
1455.008	2.82	33.28	36.10	54.00	-17.90	AVG	V
1794.419	2.88	37.54	40.42	54.00	-13.58	AVG	V
1798.564	11.00	37.86	48.86	74.00	-25.14	peak	V
2192.798	11.93	39.75	51.68	74.00	-22.32	peak	V
2252.992	2.65	40.37	43.02	54.00	-10.98	AVG	V
2634.232	3.63	44.71	48.34	54.00	-5.66	AVG	V
2649.032	12.06	45.49	57.55	74.00	-16.45	peak	V



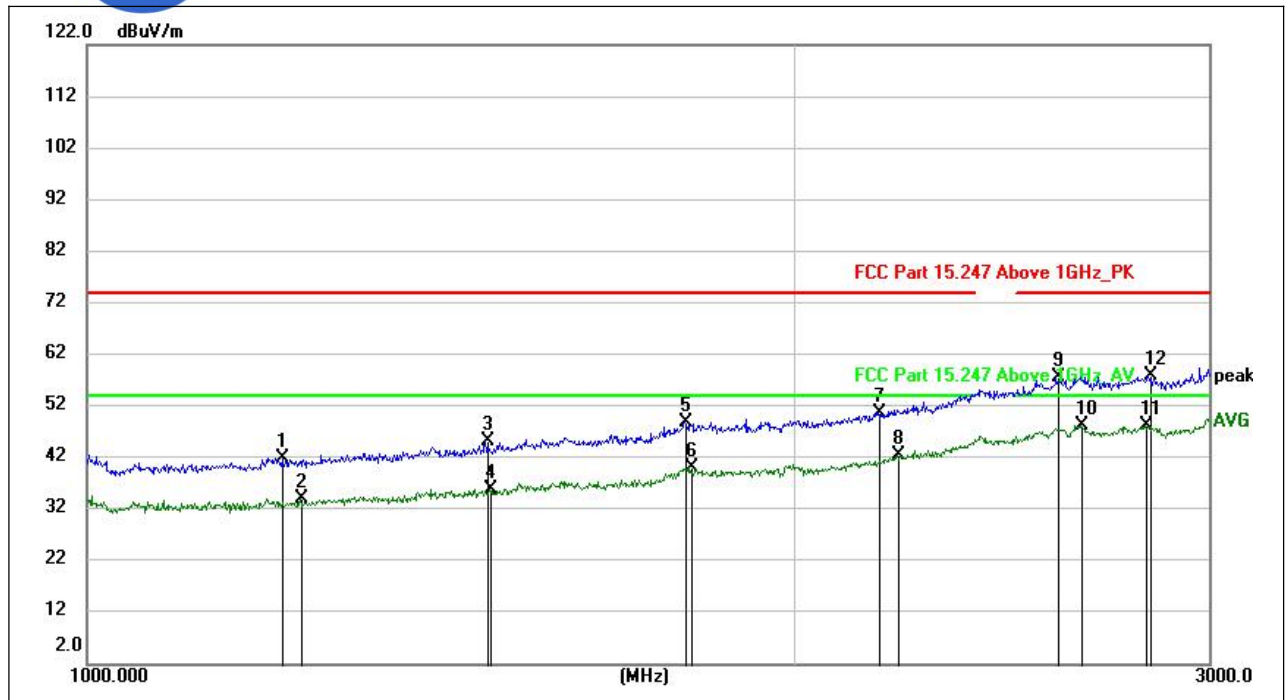
(LE 1M PHY _2405MHz, Antenna Vertical, 3GHz to 18GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
4812.750	49.94	-3.29	46.65	74.00	-27.35	peak	V
4812.750	41.51	-3.29	38.22	54.00	-15.78	AVG	V
7213.500	44.39	-0.40	43.99	54.00	-10.01	AVG	V
7216.500	50.91	-0.39	50.52	74.00	-23.48	peak	V
10035.000	42.35	2.38	44.73	74.00	-29.27	peak	V
10109.250	33.83	2.58	36.41	54.00	-17.59	AVG	V
11748.000	40.76	3.92	44.68	74.00	-29.32	peak	V
11751.750	32.82	3.91	36.73	54.00	-17.27	AVG	V
14039.250	40.21	8.17	48.38	74.00	-25.62	peak	V
14074.500	31.06	8.30	39.36	54.00	-14.64	AVG	V
17515.500	40.35	14.88	55.23	74.00	-18.77	peak	V
17754.000	31.13	15.28	46.41	54.00	-7.59	AVG	V



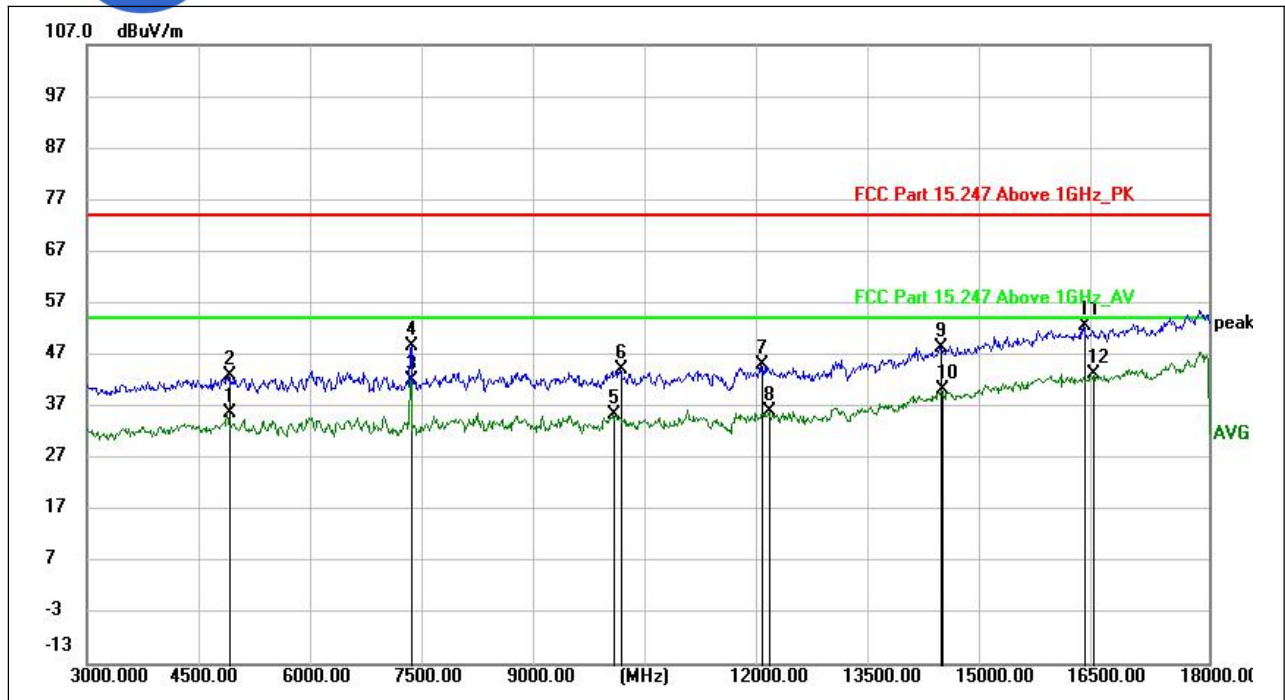
(LE 1M PHY_2440MHz, Antenna Horizontal, 30MHz to 1GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
36.5476	5.21	13.35	18.56	40.00	-21.44	peak	H
100.3869	-0.91	15.12	14.21	43.50	-29.29	peak	H
188.3134	9.28	13.07	22.35	43.50	-21.15	peak	H
381.0482	5.80	19.08	24.88	46.00	-21.12	peak	H
595.2372	2.45	23.60	26.05	46.00	-19.95	peak	H
895.5822	0.49	27.97	28.46	46.00	-17.54	peak	H



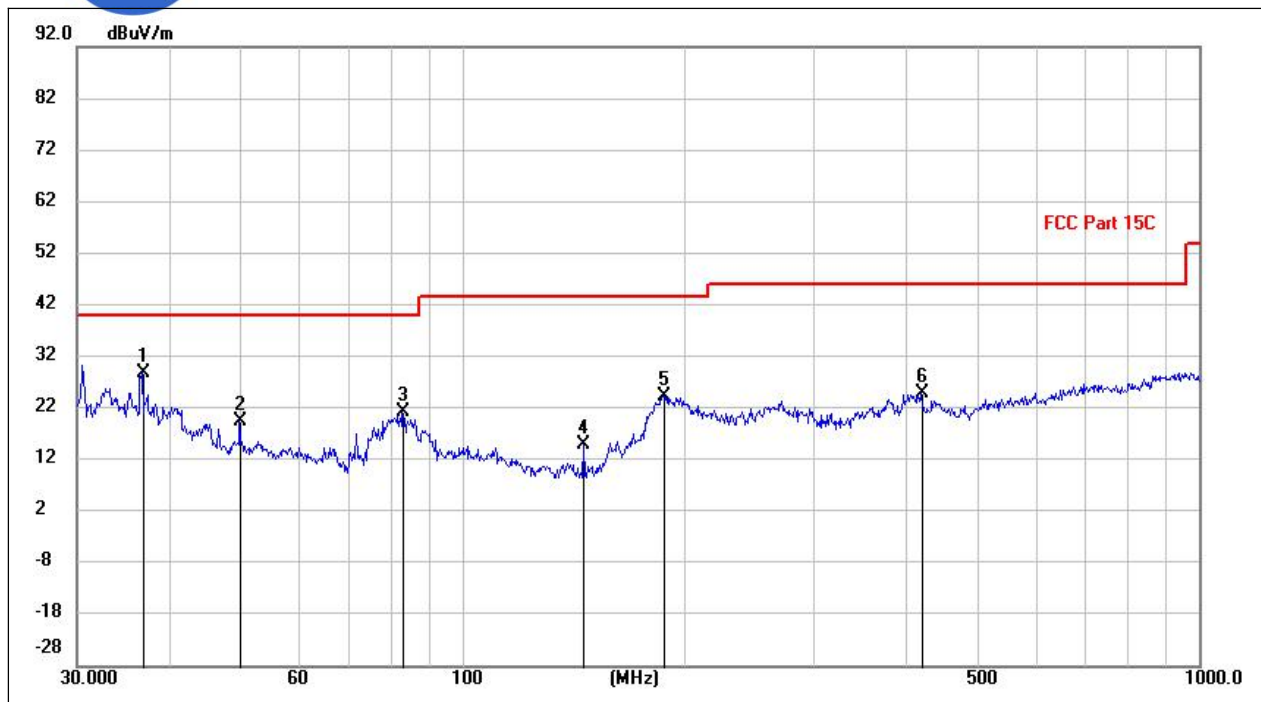
(LE 1M PHY _2440MHz, Antenna Horizontal, 1GHz to 3GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
1211.317	10.83	31.27	42.10	74.00	-31.90	peak	H
1234.288	3.00	31.17	34.17	54.00	-19.83	AVG	H
1479.428	11.74	33.41	45.15	74.00	-28.85	peak	H
1484.638	2.59	33.41	36.00	54.00	-18.00	AVG	H
1797.675	11.05	37.80	48.85	74.00	-25.15	peak	H
1806.187	2.64	37.51	40.15	54.00	-13.85	AVG	H
2171.223	11.51	39.24	50.75	74.00	-23.25	peak	H
2214.222	2.44	39.99	42.43	54.00	-11.57	AVG	H
2587.621	13.12	44.46	57.58	74.00	-16.42	peak	H
2648.741	2.77	45.51	48.28	54.00	-5.72	AVG	H
2819.757	3.68	44.48	48.16	54.00	-5.84	AVG	H
2830.931	13.22	44.76	57.98	74.00	-16.02	peak	H



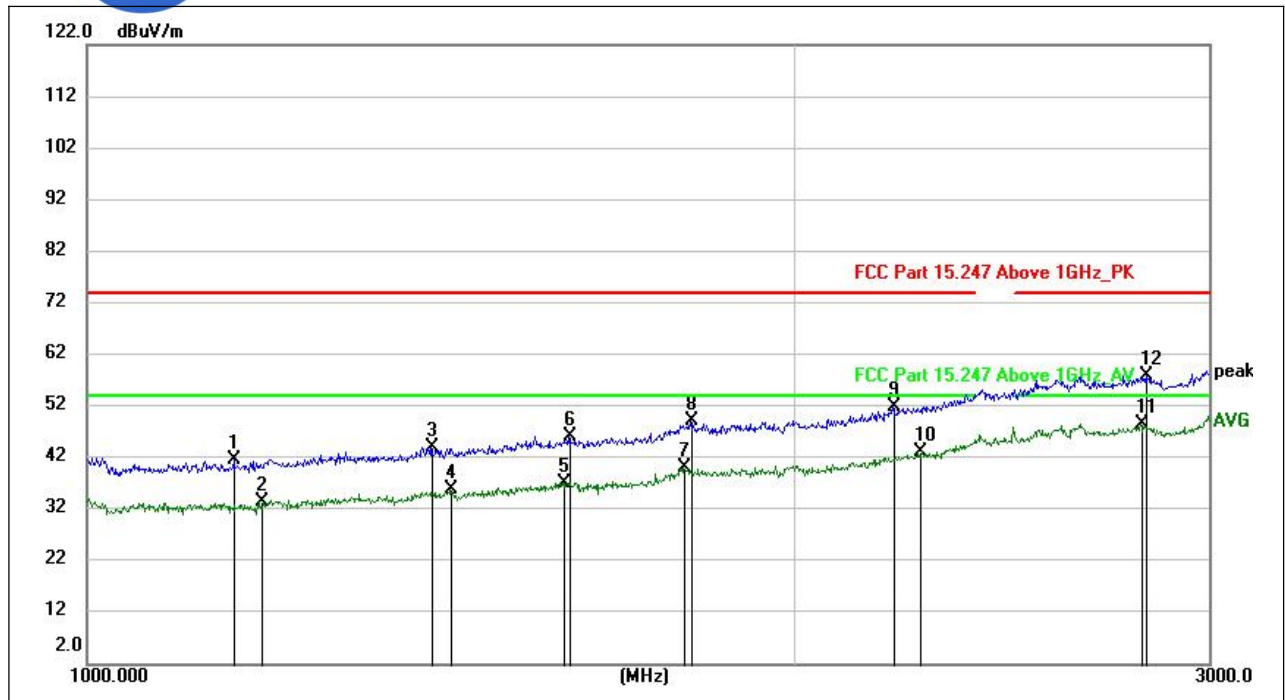
(LE 1M PHY_2440MHz, Antenna Horizontal, 3GHz to 18GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
4892.250	38.54	-2.74	35.80	54.00	-18.20	AVG	H
4893.000	45.52	-2.73	42.79	74.00	-31.21	peak	H
7322.750	42.23	-0.23	42.00	54.00	-12.00	AVG	H
7323.500	48.90	-0.22	48.68	74.00	-25.32	peak	H
10042.500	33.61	1.88	35.49	54.00	-18.51	AVG	H
10131.750	41.94	2.15	44.09	74.00	-29.91	peak	H
12027.000	40.93	4.11	45.04	74.00	-28.96	peak	H
12132.750	32.23	3.91	36.14	54.00	-17.86	AVG	H
14413.500	39.00	9.31	48.31	74.00	-25.69	peak	H
14444.250	31.49	8.75	40.24	54.00	-13.76	AVG	H
16343.250	40.88	11.60	52.48	74.00	-21.52	peak	H
16446.750	32.52	10.65	43.17	54.00	-10.83	AVG	H



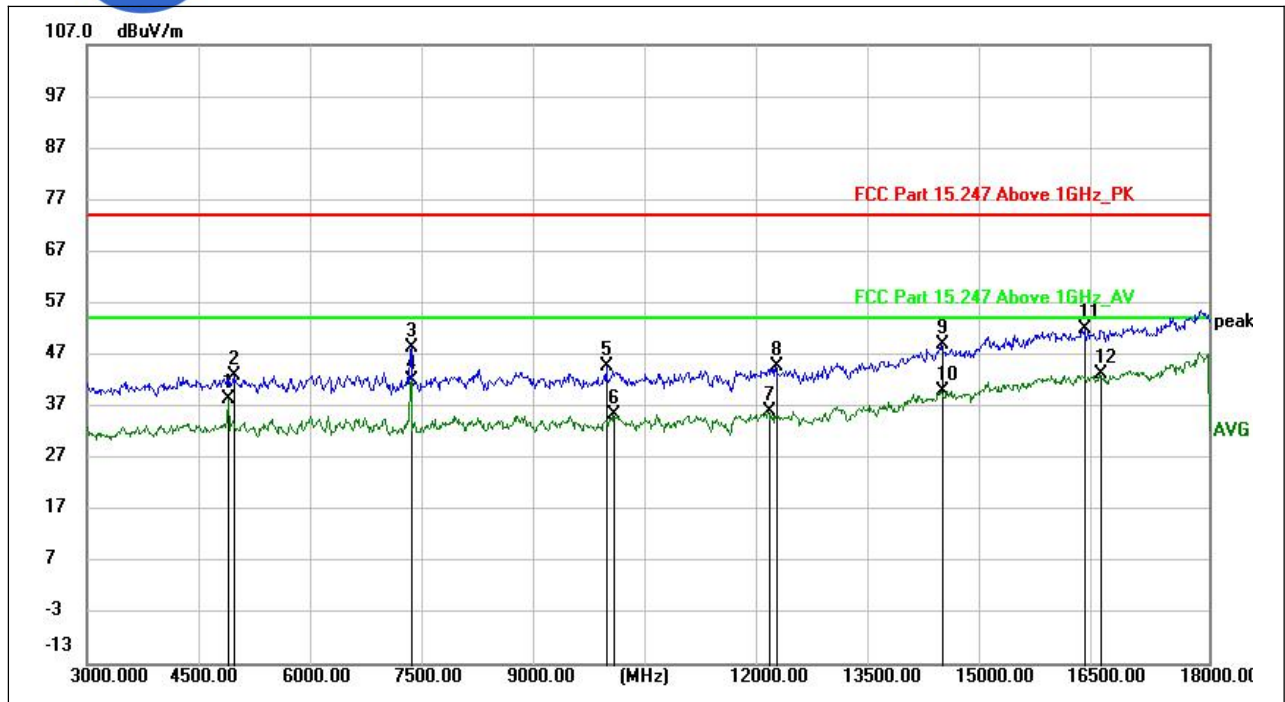
(LE 1M PHY _2440MHz, Antenna Vertical, 30MHz to 1GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
36.8113	15.42	13.50	28.92	40.00	-11.08	peak	V
50.0040	3.25	16.20	19.45	40.00	-20.55	peak	V
83.1715	10.98	10.23	21.21	40.00	-18.79	peak	V
146.3735	4.16	10.71	14.87	43.50	-28.63	peak	V
187.5556	11.52	12.87	24.39	43.50	-19.11	peak	V
420.2855	4.58	20.26	24.84	46.00	-21.16	peak	V



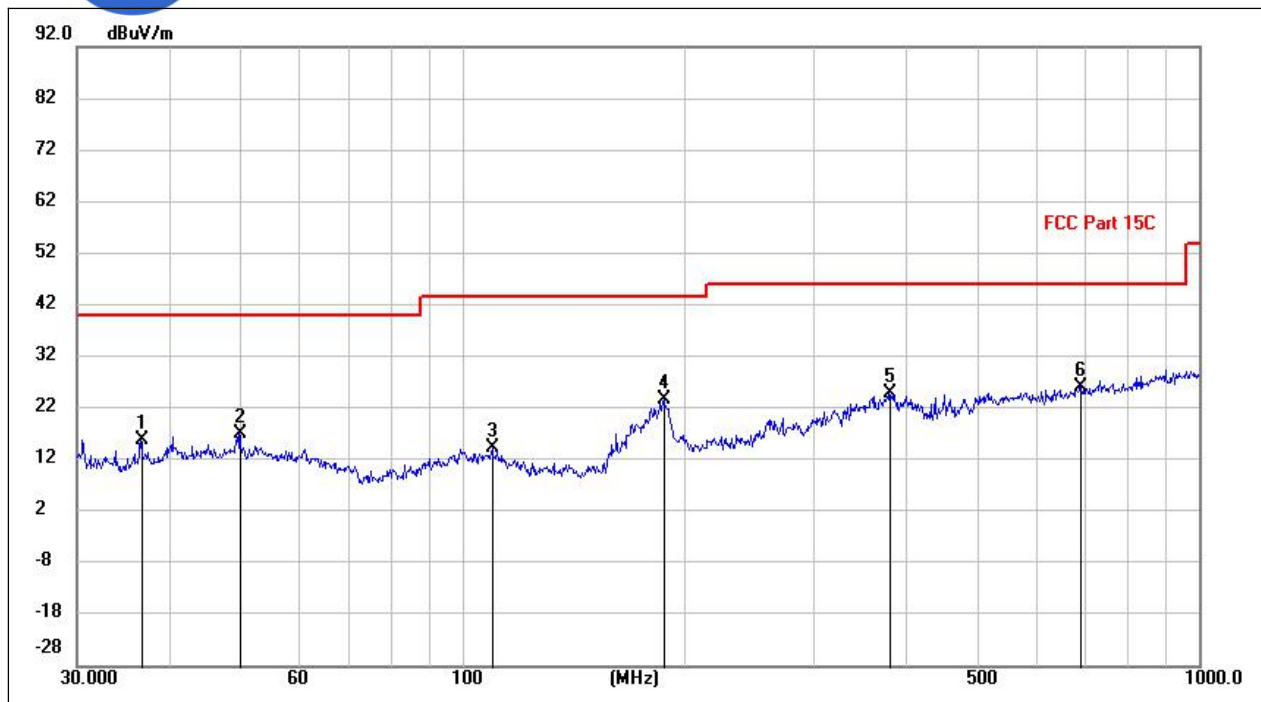
(LE 1M PHY _2440MHz, Antenna Vertical , 1GHz to 3GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
1156.059	11.22	30.55	41.77	74.00	-32.23	peak	V
1186.294	2.62	30.89	33.51	54.00	-20.49	AVG	V
1401.431	10.60	33.45	44.05	74.00	-29.95	peak	V
1428.321	2.54	33.31	35.85	54.00	-18.15	AVG	V
1594.182	2.04	35.17	37.21	54.00	-16.79	AVG	V
1605.078	10.95	35.33	46.28	74.00	-27.72	peak	V
1795.504	2.61	37.64	40.25	54.00	-13.75	AVG	V
1806.485	11.72	37.49	49.21	74.00	-24.79	peak	V
2203.665	11.89	39.86	51.75	74.00	-22.25	peak	V
2259.933	2.58	40.43	43.01	54.00	-10.99	AVG	V
2808.472	3.36	45.32	48.68	54.00	-5.32	AVG	V
2823.321	13.50	44.55	58.05	74.00	-15.95	peak	V



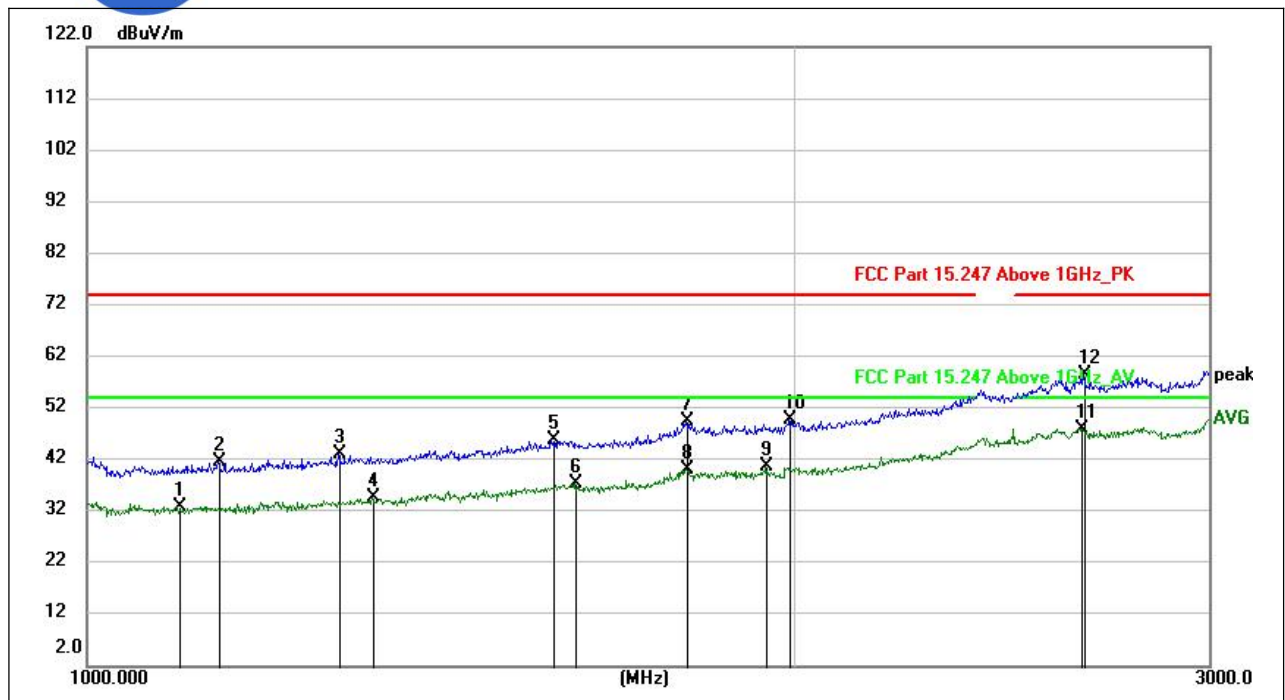
(LE 1M PHY _2440MHz, Antenna Vertical, 3GHz to 18GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
4890.000	41.02	-2.76	38.26	54.00	-15.74	AVG	V
4980.000	45.62	-2.83	42.79	74.00	-31.21	peak	V
7323.500	48.48	-0.22	48.26	74.00	-25.74	peak	V
7323.500	42.37	-0.22	42.15	54.00	-11.85	AVG	V
9950.250	42.16	2.58	44.74	74.00	-29.26	peak	V
10038.000	32.94	2.40	35.34	54.00	-18.66	AVG	V
12106.500	31.82	4.23	36.05	54.00	-17.95	AVG	V
12222.750	40.73	4.04	44.77	74.00	-29.23	peak	V
14434.500	39.48	9.41	48.89	74.00	-25.11	peak	V
14434.500	30.62	9.41	40.03	54.00	-13.97	AVG	V
16340.250	40.24	11.63	51.87	74.00	-22.13	peak	V
16547.250	31.69	11.40	43.09	54.00	-10.91	AVG	V



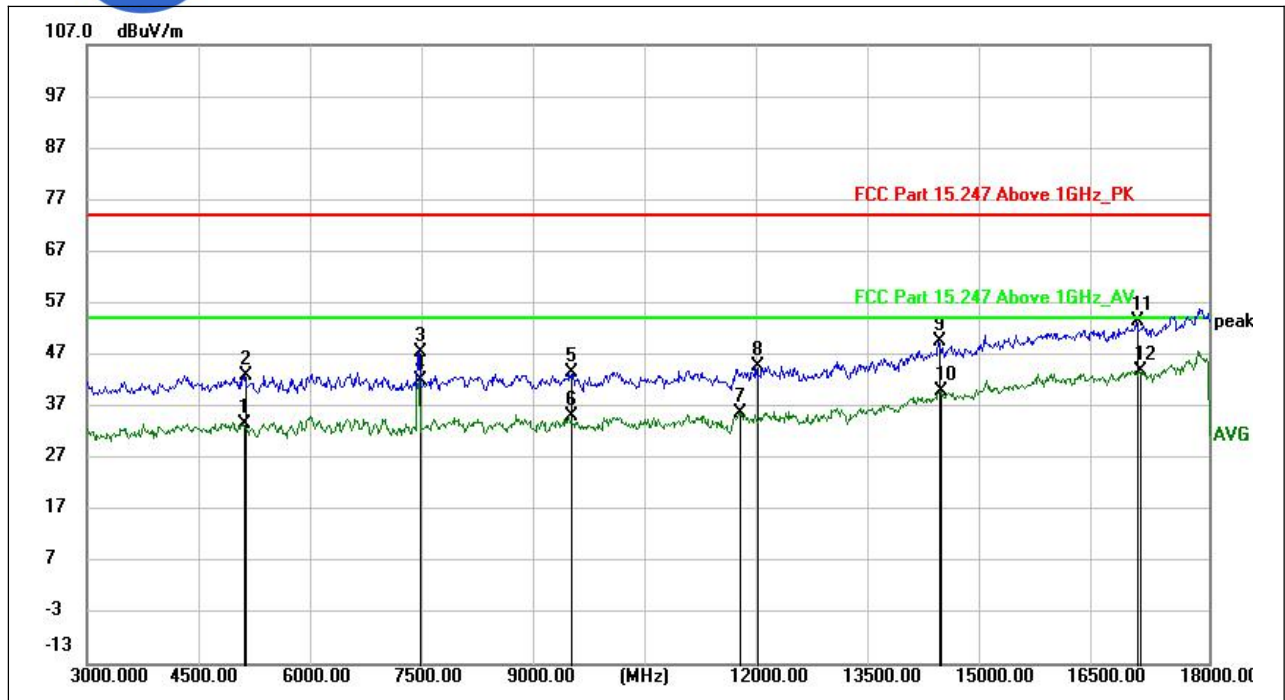
(LE 1M PHY_2480MHz, Antenna Horizontal, 30MHz to 1GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
36.7275	2.32	13.45	15.77	40.00	-24.23	peak	H
50.0128	0.75	16.20	16.95	40.00	-23.05	peak	H
109.8923	-0.56	14.96	14.40	43.50	-29.10	peak	H
188.3134	10.55	13.07	23.62	43.50	-19.88	peak	H
380.8478	5.91	19.10	25.01	46.00	-20.99	peak	H
690.6534	1.21	24.85	26.06	46.00	-19.94	peak	H



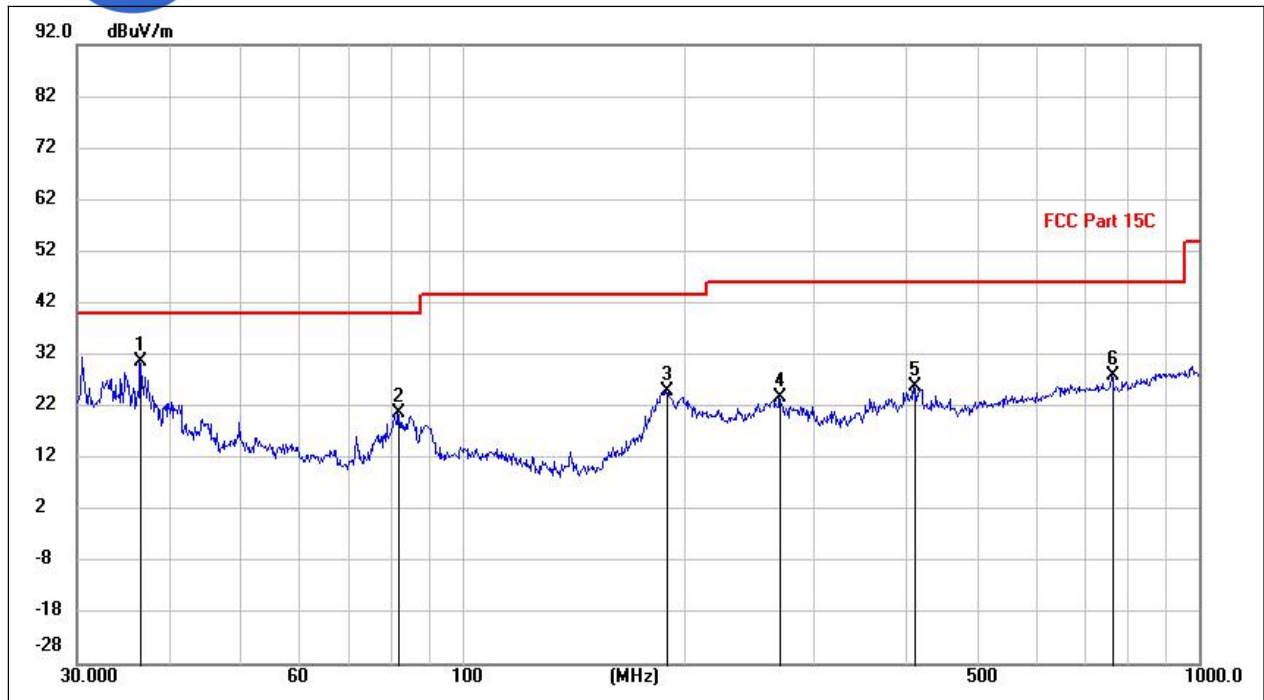
(LE 1M PHY_2480MHz, Antenna Horizontal, 1GHz to 3GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
1095.110	2.83	30.17	33.00	54.00	-21.00	AVG	H
1138.414	11.09	30.54	41.63	74.00	-32.37	peak	H
1280.631	11.22	31.87	43.09	74.00	-30.91	peak	H
1323.323	2.52	32.10	34.62	54.00	-19.38	AVG	H
1577.804	11.05	34.79	45.84	74.00	-28.16	peak	H
1613.033	2.41	35.03	37.44	54.00	-16.56	AVG	H
1799.651	11.47	37.93	49.40	74.00	-24.60	peak	H
1799.651	2.33	37.93	40.26	54.00	-13.74	AVG	H
1945.112	2.86	37.77	40.63	54.00	-13.37	AVG	H
1990.072	11.85	38.05	49.90	74.00	-24.10	peak	H
2648.159	2.55	45.54	48.09	54.00	-5.91	AVG	H
2655.151	13.30	45.19	58.49	74.00	-15.51	peak	H



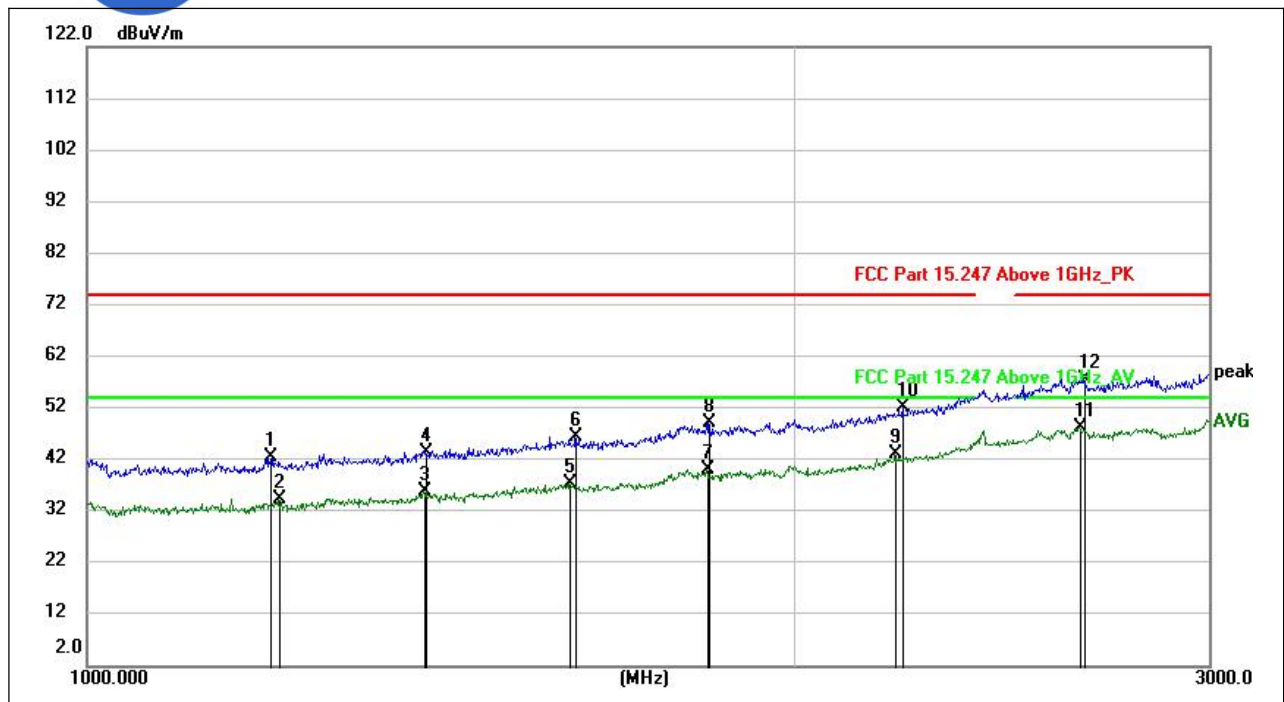
(LE 1M PHY _2480MHz, Antenna Horizontal, 3GHz to 18GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
5111.250	36.72	-3.05	33.67	54.00	-20.33	AVG	H
5124.750	46.02	-3.11	42.91	74.00	-31.09	peak	H
7441.500	47.80	-0.29	47.51	74.00	-26.49	peak	H
7441.500	42.35	-0.29	42.06	54.00	-11.94	AVG	H
9471.750	41.73	1.71	43.44	74.00	-30.56	peak	H
9471.750	33.35	1.71	35.06	54.00	-18.94	AVG	H
11741.250	31.84	3.93	35.77	54.00	-18.23	AVG	H
11959.500	41.10	3.77	44.87	74.00	-29.13	peak	H
14391.000	40.15	9.39	49.54	74.00	-24.46	peak	H
14415.750	30.61	9.30	39.91	54.00	-14.09	AVG	H
17033.250	42.04	11.42	53.46	74.00	-20.54	peak	H
17085.000	32.33	11.64	43.97	54.00	-10.03	AVG	H



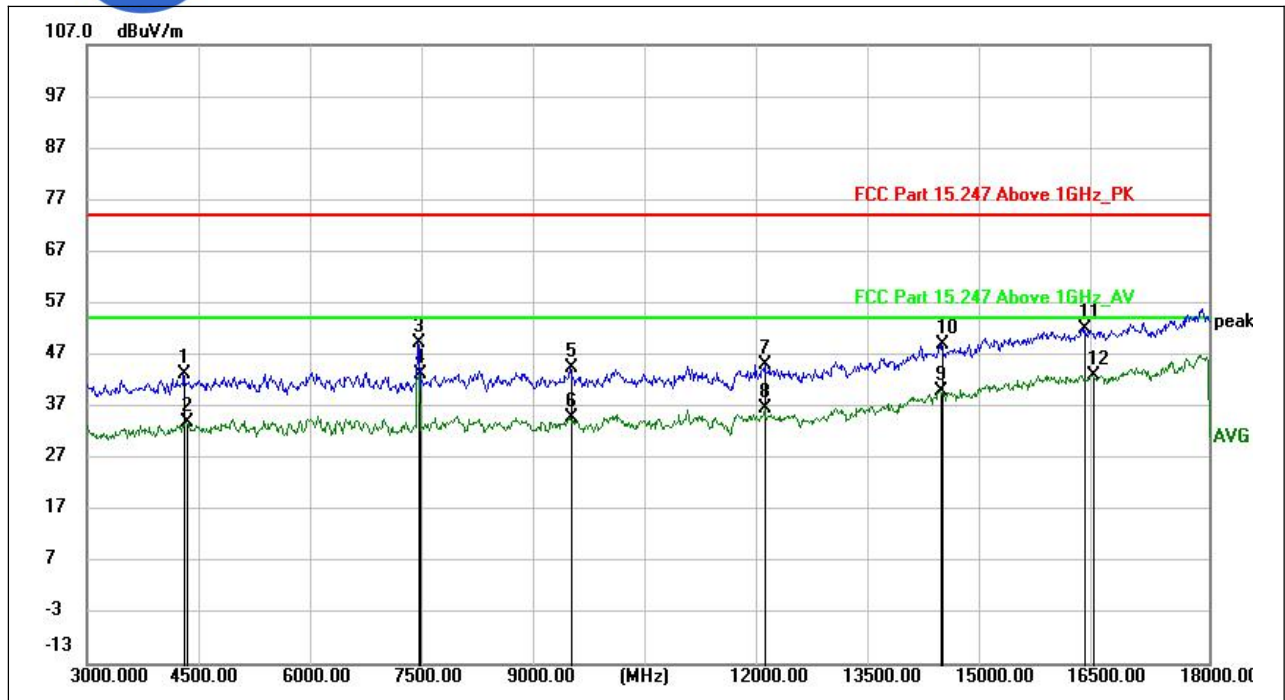
(LE 1M PHY _2480MHz, Antenna Vertical, 30MHz to 1GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
36.6246	17.20	13.39	30.59	40.00	-9.41	peak	V
81.8837	10.82	9.99	20.81	40.00	-19.19	peak	V
189.7052	11.63	13.42	25.05	43.50	-18.45	peak	V
270.0905	8.44	15.29	23.73	46.00	-22.27	peak	V
410.8144	7.05	18.80	25.85	46.00	-20.15	peak	V
762.3057	1.62	26.26	27.88	46.00	-18.12	peak	V



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

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
1196.372	10.88	31.54	42.42	74.00	-31.58	peak	V
1206.668	2.94	31.47	34.41	54.00	-19.59	AVG	V
1391.612	2.63	33.29	35.92	54.00	-18.08	AVG	V
1393.141	10.16	33.32	43.48	74.00	-30.52	peak	V
1604.020	1.93	35.36	37.29	54.00	-16.71	AVG	V
1614.096	11.37	34.97	46.34	74.00	-27.66	peak	V
1835.795	3.12	37.07	40.19	54.00	-13.81	AVG	V
1839.126	12.16	36.97	49.13	74.00	-24.87	peak	V
2206.451	3.23	39.89	43.12	54.00	-10.88	AVG	V
2224.462	12.04	40.13	52.17	74.00	-21.83	peak	V
2643.073	2.98	45.26	48.24	54.00	-5.76	AVG	V
2655.151	12.55	45.19	57.74	74.00	-16.26	peak	V



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

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
4305.000	46.64	-3.37	43.27	74.00	-30.73	peak	V
4335.750	37.39	-3.36	34.03	54.00	-19.97	AVG	V
7438.500	49.74	-0.36	49.38	74.00	-24.62	peak	V
7441.500	43.47	-0.33	43.14	54.00	-10.86	AVG	V
9478.500	42.43	1.98	44.41	74.00	-29.59	peak	V
9478.500	32.80	1.98	34.78	54.00	-19.22	AVG	V
12071.250	40.43	4.66	45.09	74.00	-28.91	peak	V
12071.250	32.02	4.66	36.68	54.00	-17.32	AVG	V
14415.000	30.49	9.48	39.97	54.00	-14.03	AVG	V
14437.500	39.48	9.37	48.85	74.00	-25.15	peak	V
16333.500	40.28	11.72	52.00	74.00	-22.00	peak	V
16458.000	32.07	10.89	42.96	54.00	-11.04	AVG	V



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	$\pm 2.22\text{dB}$
Power spectral density (PSD)	$\pm 2.22\text{dB}$
Bandwidth	$\pm 5\%$
Conducted Spurious Emission	$\pm 2.77\text{ dB}$
Restricted Frequency Bands	$\pm 5\%$
Radiated Emission	$\pm 3.1\text{dB}$
Conducted Emission	$\pm 1.8\text{dB}$

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)
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4. Test Equipments Utilized

4.1 Conducted Test Equipments

No.	Equipment Name	Serial No.	Model No.	Manufacturer	Cal.Due Date
1	MXA Signal Analyzer	MY57150136	N9030A	Keysight	2021. 03.08
2	RF cable (30MHz-26.5GHz)	RF01	N/A	Morlab	2021.03.06
3	Coaxial cable	RF02	N/A	Morlab	2021.03.06
4	SMA connector	RF03	N/A	Xingbo	N/A
Software Version: MW 2.0.0.0					

**4.2 Conducted Emission Test Equipments**

No.	Equipment Name	Serial No.	Type	Manufacturer	Cal.Due Date
1	EMI Receiver	102174	ESR3	R&S	2021.03.15
2	LISN	101338	ENV432	R&S	2021.03.09

4.3 Auxiliary Test Equipment

No.	Equipment Name	Model No.	Brand Name	Manufacturer	Cal.Due Date
1	Computer	E75	Think Pad	Lenovo	N/A

4.4 List of Software Used

Description	Manufacturer	Software Version
Test system	CAICT	Eagle 2.0
EMC32	R&S	V10.00.00

4.5 Radiated Test Equipments

No.	Equipment Name	Serial No.	Type	Manufacturer	Cal.Due Date
1	Anechoic Chamber	N/A	9m*6m*6m	ETS-Lindgren	2022.07.20
2	Receiver	101799	ESR7	R&S	2021.03.15
3	Signal Analyzer	101294	FSV40	R&S	2021.06.04
4	Active Ring Antenna	FMZB 1513 #269	FMZB 1513	Schwarzbeck	2022.01.18
5	Linear Log Periodic Broad Band Antenna	949	VULB 9163	Schwarzbeck	2021.09.24
6	Ultra-Wideband Horn Antenna	102615	HF907	R&S	2022.01.18
7	Steatite Antennas	17868	QSH-SL-18 -26-S-20	Seibersdorf	2021.03.23
8	Ultra-Wideband Horn Antenna	17989	QSH-26-40	Schwarzbeck	2021.03.23
9	RF Switch and Control Platform	N/A	RSC	CDSI	N/A
10	Coaxial cable (N male) (9kHz -3GHz)	EMC02	N/A	Morlab	2021.03.23
11	Coaxial cable (N male)	EMC03	N/A	Morlab	2021.03.23



	(9kHz -3GHz)				
12	Coaxial cable (N male) (1GHz-26.5GHz)	EMC04	N/A	Morlab	2021.03.23
13	Coaxial cable (N male) (1GHz-26.5GHz)	EMC05	N/A	Morlab	2021.03.23
14	Pre-amplifier (1GHz-18GHz)	8810011	PAP-1G18	CDSI	2021.03.23
15	Pre-amplifier (18GHz-40GHz)	17021-17024	PAP-1840	CDSI	2021.03.23
16	High Pass Filter	EMC21	HFP-1.0/18 G-60	CDSI	2021.03.23
17	High Pass Filter	EMC22	HFP-3.0/18 G-60	CDSI	2021.03.23

_____ END OF REPORT _____