

TEST REPORT

Applicant:	Aukey Technology Co., Ltd
Address of Applicant:	No. 102, Bldg. P09, Electronics Trade Center Huanan City, Pinghu Town, Longgang, Shenzhen, Guangdong, China
Manufacturer:	Aukey Technology Co., Ltd
Address of Manufacturer:	No. 102, Bldg. P09, Electronics Trade Center Huanan City, Pinghu Town, Longgang, Shenzhen, Guangdong, China
Product name:	Wireless Gaming Mouse
Model(s):	GM-F5, GM-F8, GM-F9, GM-F10, GM-F11, GM-F12, GM-F13, GM-F14, GM-F15, GM-F16, GM-F17(Only the name and color are different)
Rating(s):	DC 5V
Trademark:	AUKEY
Standards:	47 CFR PART 15 Subpart C: 2019 section 15.247
FCC ID:	2ATIH-GMF5
Data of Receipt:	2020-06-01
Date of Test:	2020-06-01~2020-06-19
Date of Issue:	2020-06-19
Test Result	Pass*

* In the configuration tested, the test item complied with the standards specified above.

Authorized for issue by:

Test by:

Jun 19, 2020 Chivas Zeng

Project Engineer

Date

Name/Position

Signature



Reviewed by:

Jun 19, 2020

Pauler Li

Project Manager

Date

Name/Position

Signature

Testing Laboratory information:

Testing Laboratory Name: ITL Co., Ltd

Address : No. 8, Jinqianling Street 5, Huangjiang Town, Dongguan,
Guangdong, China

Testing location : Same as above

Tel : 0086-769-39001678

Fax : 0086-20-62824387

E-mail : itl@i-testlab.com

Possible test case verdicts:

- test case does not apply to the test object . : N/A
- test object does meet the requirement : P (Pass)
- test object does not meet the requirement . : F (Fail)

General remarks:

The test results presented in this report relate only to the object tested.

The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report.

This report would be invalid test report without all the signatures of testing technician and approver.

This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

General product information:

There's a computer that charges the battery.

The models GM-F5, GM-F8, GM-F9, GM-F10, GM-F11, GM-F12, GM-F13, GM-F14, GM-F15, GM-F16 and GM-F17 are identical to each other except for model name and color.

All tests were performed on the model GM-F5 as representative.

1 Test Summary

Test	Test Requirement	Test method	Result
Antenna Requirement	FCC PART 15 C section 15.247 (c) and Section 15.203	FCC PART 15 C section 15.247 (c) and Section 15.203	PASS
Occupied Bandwidth	FCC PART 15 C section 15.247 (a)(2)	ANSI C63.10:2013 and KDB 558074 D01 v05r02	PASS
Maximum Peak Output Power	FCC PART 15 C section 15.247(b)(3)	ANSI C63.10: 2013 and KDB 558074 D01 v05r02	PASS
Peak Power Spectral Density	FCC PART 15 C section 15.247(e)	ANSI C63.10:2013 and KDB 558074 D01 v05r02	PASS
Conducted Spurious Emission (30MHz to 25GHz)	FCC PART 15 C section 15.209 &15.247(d)	ANSI C63.10:2013 and KDB 558074 D01 v05r02	PASS
Radiated Spurious Emission (30 MHz to 25 GHz)	FCC PART 15 C section 15.209 &15.247(d)	ANSI C63.10:2013 and KDB 558074 D01 v05r02	PASS
Band Edges Measurement	FCC PART 15 C section 15.209 &15.247(d)	ANSI C63.10:2013 and KDB 558074 D01 v05r02	PASS
Conducted Emissions at Mains Terminals	FCC PART 15 C section 15.207	ANSI C63.10:2013	PASS

2 Contents

	Page
TEST REPORT	1
1 TEST SUMMARY	3
2 CONTENTS	4
3 GENERAL INFORMATION	5
3.1 CLIENT INFORMATION	5
3.2 GENERAL DESCRIPTION OF E.U.T.	5
3.3 DETAILS OF E.U.T.	5
3.4 DESCRIPTION OF SUPPORT UNITS	6
3.5 TEST LOCATION	6
3.6 DEVIATION FROM STANDARDS	6
3.7 ABNORMALITIES FROM STANDARD CONDITIONS	6
3.8 OTHER INFORMATION REQUESTED BY THE CUSTOMER	6
3.9 TEST FACILITY	6
3.10 MEASUREMENT UNCERTAINTY	6
4 INSTRUMENTS USED DURING TEST	7
5 TEST RESULTS	8
5.1 E.U.T. TEST CONDITIONS	8
5.2 ANTENNA REQUIREMENT	10
5.3 OCCUPIED BANDWIDTH	11
5.4 MAXIMUM PEAK OUTPUT POWER	15
5.5 PEAK POWER SPECTRAL DENSITY	17
5.6 CONDUCTED SPURIOUS EMISSIONS	22
5.7 RADIATED SPURIOUS EMISSIONS	25
5.7.1 Harmonic and other spurious emissions	28
5.8 RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS	41
5.9 BAND EDGES REQUIREMENT	44
5.10 CONDUCTED EMISSIONS AT MAINS TERMINALS 150 kHz TO 30MHz	47
5.10.1 Measurement Data	49

3 General Information

3.1 Client Information

Applicant: Aukey Technology Co., Ltd
Address of Applicant: No. 102, Bldg. P09, Electronics Trade Center Huanan City, Pinghu Town, Longgang, Shenzhen, Guangdong, China

3.2 General Description of E.U.T.

Name: Wireless Gaming Mouse
Model No.: GM-F5
Trade Mark: AUKEY
Operating Frequency: 2403MHz-2480MHz

Channels:

Working Frequency of Each Channel:			
channel	Frequency	channel	Frequency
1	2403	9	2445
2	2409	10	2450
3	2414	11	2455
4	2419	12	2461
5	2424	13	2465
6	2429	14	2470
7	2435	15	2475
8	2441	16	2480

Type of Modulation: GFSK
Antenna Type: PCB antenna with 2.34 dBi peak Gain
Function: Wireless Gaming Mouse
Hardware version: 2.0.0
Software version: 1.1

3.3 Details of E.U.T.

EUT Power Supply: DC 5V
Test mode: The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode List	
Test Mode	Remark
TM1	2403MHz, 2441MHz, 2480MHz,

Power cord: /

3.4 Description of Support Units

The EUT has been tested as an independent unit for fixed frequency by testing lab.

3.5 Test Location

All tests were performed at:

ITL Co., Ltd

No. 8, Jinqianling Street 5, Huangjiang Town, Dongguan, Guangdong, China.

0086-769-39001678

itl@i-testlab.com

No tests were sub-contracted.

3.6 Deviation from Standards

Biconical and log periodic antennas were used instead of dipole antennas.

3.7 Abnormalities from Standard Conditions

None.

3.8 Other Information Requested by the Customer

None.

3.9 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- CNAS(Lab code:L9342)
- FCC (Registration No.: 239076)
- IC (Registration NO.:CN0025)

3.10 Measurement Uncertainty

The below measurement uncertainties given below are based on a 95% confidence level (base on a coverage factor (k=2).)

Parameter	Uncertainty
Radio frequency	2.25%
total RF power, conducted	±1.34 dB
RF power density , conducted	±1.49 dB
All emissions, radiated	±2.72 dB
Temperature	±5.02 dB
Humidity	±0.8°C
DC and low frequency voltages	±1.5 %

4 Instruments Used during Test

No.	Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
DGITL-306	Spectrum Analyzer	Agilent Technologies	N9010A	MY54200334	2020.05.22	2021.05.21
DGITL-307	Test Receiver	R&S	ESVS 10	840698/013	2020.05.22	2021.05.21
DGITL-352	Pre Amplifier	Mini-Circuits	ZFC-1000HX	SN292801110	2020.05.22	2021.05.21
DGITL-350	Wideband Amplifier Super Ultra	Mini-circuits	ZVA-183-S+	SN986401426	2020.05.31	2021.05.30
DGITL-308	Biconilog Antenna	ETS•Lindgren	3142E	156975	2018.09.17	2020.09.16
DGITL-309	Horn Antenna	ETS•Lindgren	3117	SN00152265	2018.09.17	2020.09.16
DGITL-303a	EMI Test receiver	R&S	ESCI	100910	2020.05.22	2021.05.21
DGITL-304	L.I.S.N.#1	R&S	ESH3-Z5	100272	2020.05.22	2021.05.21
DGITL-316	Pulse Limiter	R&S	ESH3-Z2	100327	2020.05.22	2021.05.21
DGITL-300	50Ω Coaxial Cable	Mini-circuits	CBL	C002	2020.05.22	2021.05.21
DGITL-301	Anechoic chamber	ETS•Lindgren	9m*6m*6m	CT000874-1181	2018.08.22	2020.08.21
DGITL-363	Loop Antenna	ZHINAN	ZN30900A	002489	2019.11.16	2021.11.15
DGITL-364	Horn Antenna	Schwarzbeck	BBHA 9170	B09806543	2019.11.16	2021.11.15
DGITL-302	Shielded Room	ETS•Lindgren	8*4*3	CT09010	2018.08.22	2020.08.21

5 Test Results

5.1 E.U.T. test conditions

Test Voltage: DC 5V adapter and 3V battery

Temperature: 23.2 -25.0 °C

Humidity: 38-50 % RH

Atmospheric Pressure: 1000 -1010 mbar

Requirements: **15.31(e):** For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. For battery operated equipment, the equipment tests shall be performed using a new battery.

15.32: Power supplies and CPU boards used with personal computers and for which separate authorizations are required to be obtained shall be tested as follows: Testing shall be in accordance with the procedures specified in Section 15.31 of this part.

Test frequencies and frequency range:

According to the 15.31(m) Measurements on intentional radiators or receivers, other than TV broadcast receivers, shall be performed and, if required, reported for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table:

According to the 15.33 (a) For an intentional radiator, the spectrum shall be investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to at least the frequency shown in the following table:

Number of fundamental frequencies to be tested in EUT transmit band

Frequency range in which	Number of	Location in frequency range
1 MHz or less	1	Middle
1 MHz to 10 MHz	2	1 near top and 1 near bottom
More than 10 MHz	3	1 near top, 1 near middle and 1 near bottom

Frequency range of radiated emission measurements

Lowest frequency generated	Upper frequency range of measurement
9 kHz to below 10 GHz	10th harmonic of highest fundamental frequency or to 40 GHz,
At or above 10 GHz to below	5th harmonic of highest fundamental frequency or to 100 GHz,
At or above 30 GHz	5th harmonic of highest fundamental frequency or to 200 GHz,

EUT channels and frequencies list:

Working Frequency of Each Channel:			
channel	Frequency	channel	Frequency
1	2403	9	2445
2	2409	10	2450
3	2414	11	2455
4	2419	12	2461
5	2424	13	2465
6	2429	14	2470
7	2435	15	2475
8	2441	16	2480

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode List	
Test Mode	Remark
TM1	2403MHz, 2441MHz, 2480MHz,

5.2 Antenna requirement

Standard requirement

15.203 requirement:

For intentional device. According to 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.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz bands that are used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna

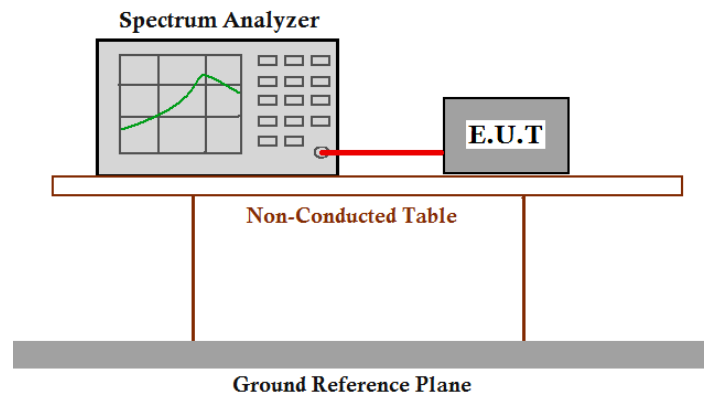
This product has PCB antennas. The best case gain of the antenna is -2 dBi.

Test result: The unit does meet the FCC requirements.

5.3 Occupied Bandwidth

Test Requirement:	FCC Part 15 C section 15.247 (a)(2) Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Test Method:	ANSI C63.10:2013 and KDB 558074 D01 v05r02, KDB 662911 D01
Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, channels and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.

Test Configuration:



Test Procedure:

1. Remove the antenna from the EUT and then connect a low attention attenuation RF cable (Cable loss =0.5dB) from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW=100kHz. VBW = 300kHz, Sweep = auto; Detector Function = Peak. Trace = Max Hold, Set span to encompass the entire emission bandwidth of the signal.
3. Mark the peak power frequency and -6dB (upper and lower) power frequency.
4. Repeat until all the test status is investigated.
5. Report the worst case.

Test result (6 dB bandwidth)

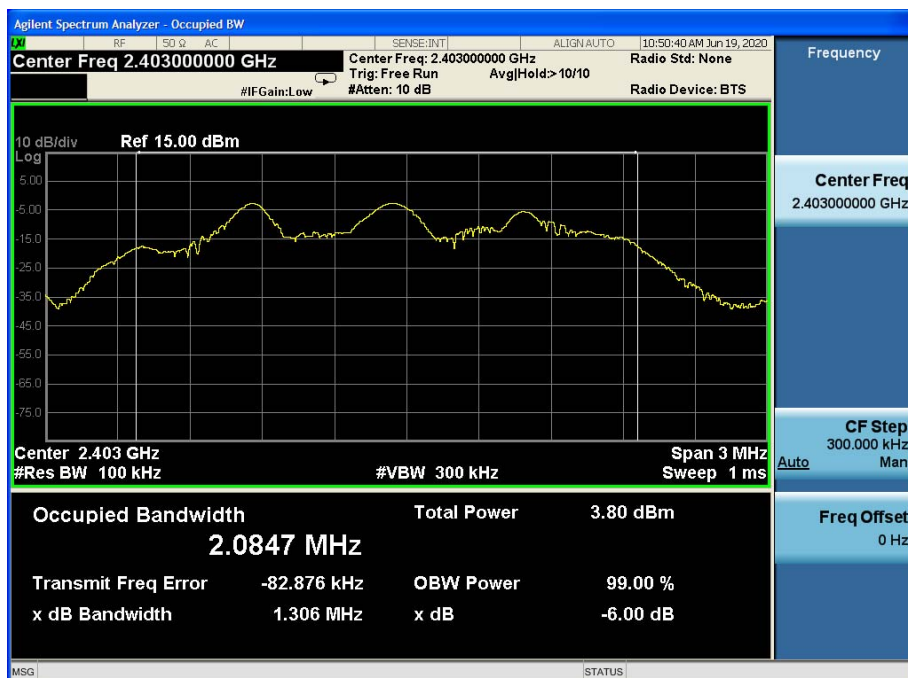
Test Mode	Test Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
TM 1	2403	1.306	≥500	Pass
	2441	1.284	≥500	Pass
	2480	1.278	≥500	Pass

The unit does meet the FCC requirements.

6dB bandwidth:

Result plot as follows:

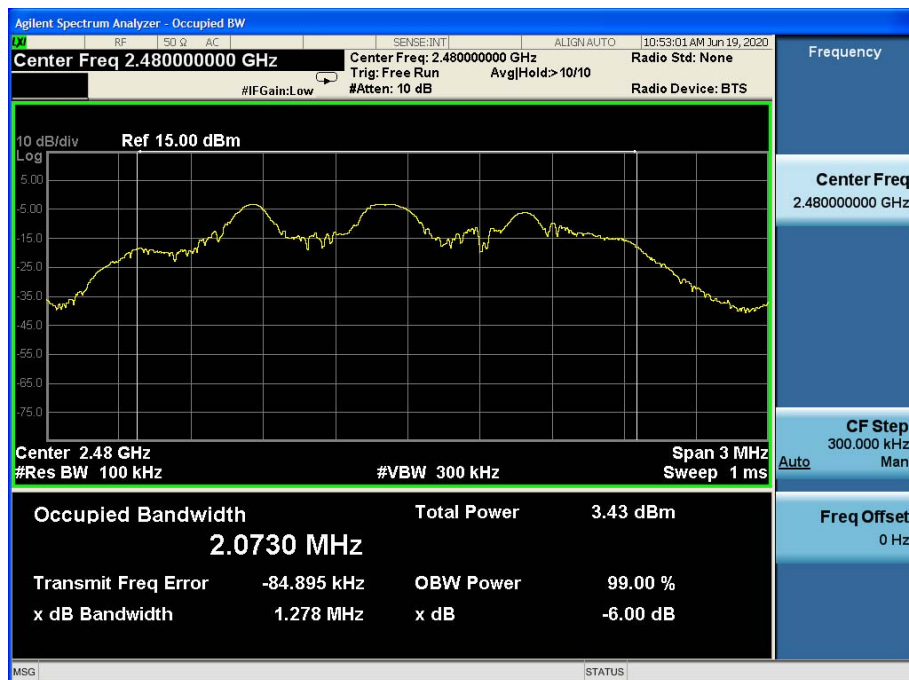
Channel 1:2.403GHz:



Channel 8:2.441GHz:



Channel 16:2.480GHz:



5.4 Maximum Peak Output Power

Test Requirement: FCC Part 15 C section 15.247

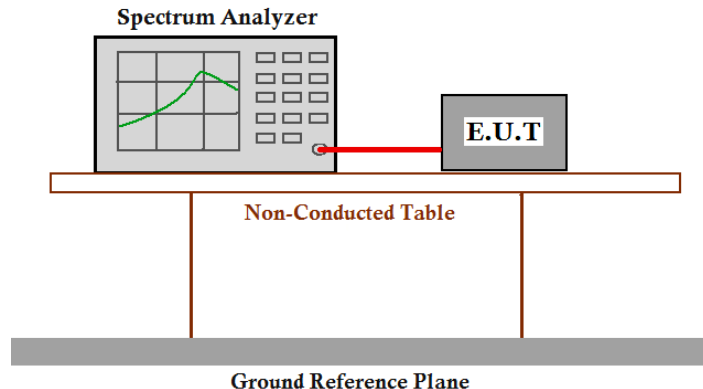
(b)(3) For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt.

Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b) (1), (b) (2), and (b) (3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Test Method: ANSI C63.10:2013 and KDB 558074 D01 v05r02, KDB 662911 D01

Test Status: Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, channels and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.

Test Configuration:



Test Procedure:

1. Remove the antenna from the EUT and then connect a low attention attenuation RF cable (Cable loss = 0.5dB) from the antenna port to the spectrum.
2. Set span to at least 1.5 times the OBW.
3. Set RBW = 1 % to 5% of OBW, not to exceed 1 MHz
4. Set VBW $\geq 3 \times$ RBW.
5. Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
6. Sweep time = auto.
7. If transmit duty cycle $< 98\%$, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at the maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no OFF intervals) or at duty cycle $\geq 98\%$, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run."
8. Trace average 100 traces in power averaging mode.

9. Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.
10. Repeat until all the test status is investigated.
11. Report the worst case.

Test Data:

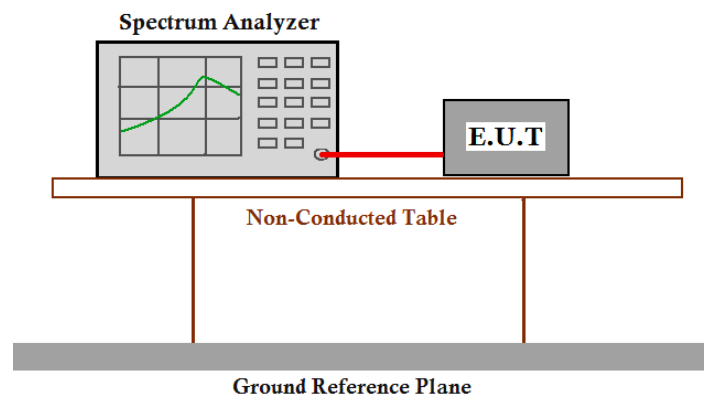
Test mode	Test Channel	Test Result (dBm)	Limit (dBm)
TM 1	2403	-2.81	30.00
	2441	-2.86	30.00
	2480	-3.40	30.00

Remark: 1) Cable loss=0.5dB

The unit does meet the FCC requirements.

5.5 Peak Power Spectral Density

Test Requirement:	FCC Part 15 C section 15.247 (e) For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm 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.
Test Method:	ANSI C63.10:2013 and KDB 558074 D01 v05r02, KDB 662911 D01
Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, channel and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.
Test Configuration:	



Test Procedure:

1. Remove the antenna from the EUT and then connect a low attention attenuation RF cable (Cable loss = 0.5 dB) from the antenna port to the spectrum analyzer or power meter.
2. Set the spectrum analyzer:
 - a) Set instrument center frequency to DTS channel center frequency.
 - b) Set the instrument span to 1.5 times the OBW.
 - c) Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
 - d) Set the VBW $\geq [3 \times \text{RBW}]$.
 - e) Detector = power average (rms).
 - f) Ensure that the number of measurement points in the sweep $\geq 2 \times \text{span} / \text{RBW}$.
 - g) Manually set the sweep time to: $\geq [10 \times (\text{number of measurement points in sweep}) \times (\text{transmission symbol period})]$, but no less than the auto sweep time.

NOTE—The transmission symbol period (in seconds) is the reciprocal of the symbol rate (in baud or symbols per second). Note that each symbol can represent one or several data bits, and thus, the symbol rate should not be confused with the gross bit rate (expressed in bits/second). In no case should the sweep time be set less than the auto sweep time.

 - h) Perform the measurement over a single sweep.
 - i) Use the peak marker function to determine the maximum amplitude level.
 - j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span to meet the minimum measurement point requirement as the RBW is reduced).
3. Repeat until all the test status is investigated.
4. Report the worst case.

Test result:

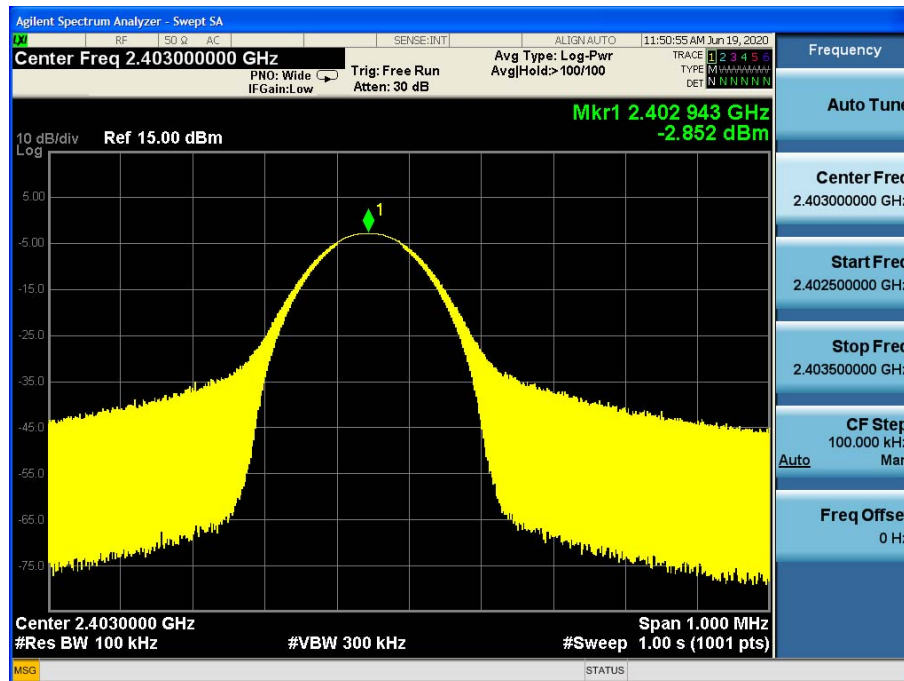
Test mode	Test Channel	Test Result (dBm/3kHz)	Limit (dBm/3kHz)
TM 1	2403	-2.85	8
	2441	-2.82	
	2480	-3.32	

Remark: 1) Output Peak Power=Reading Peak Power + Cable loss
2) Cable loss=0.5dB

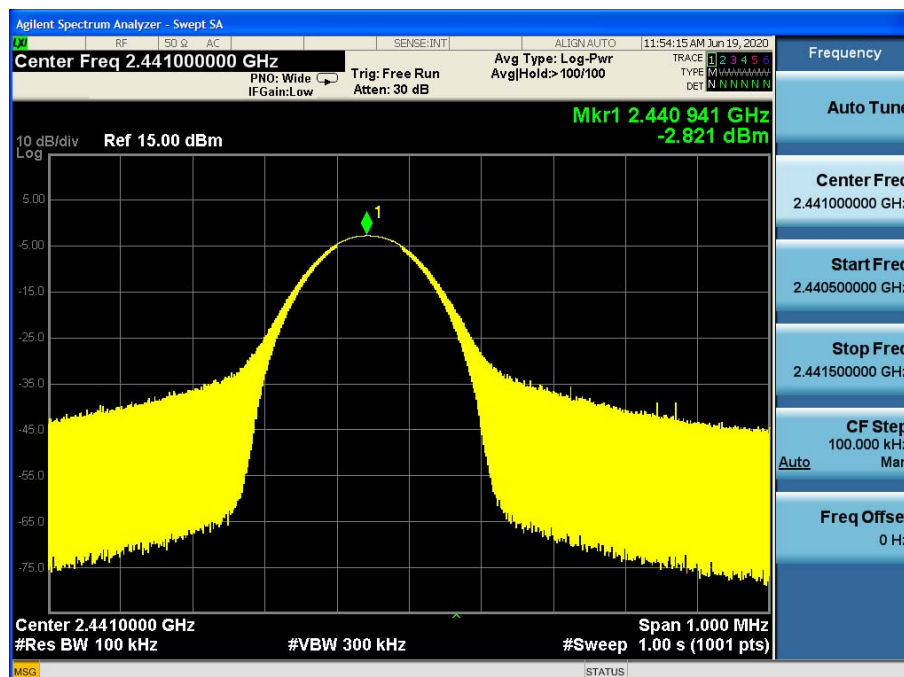
The unit does meet the FCC requirements.

Result plot as follows:

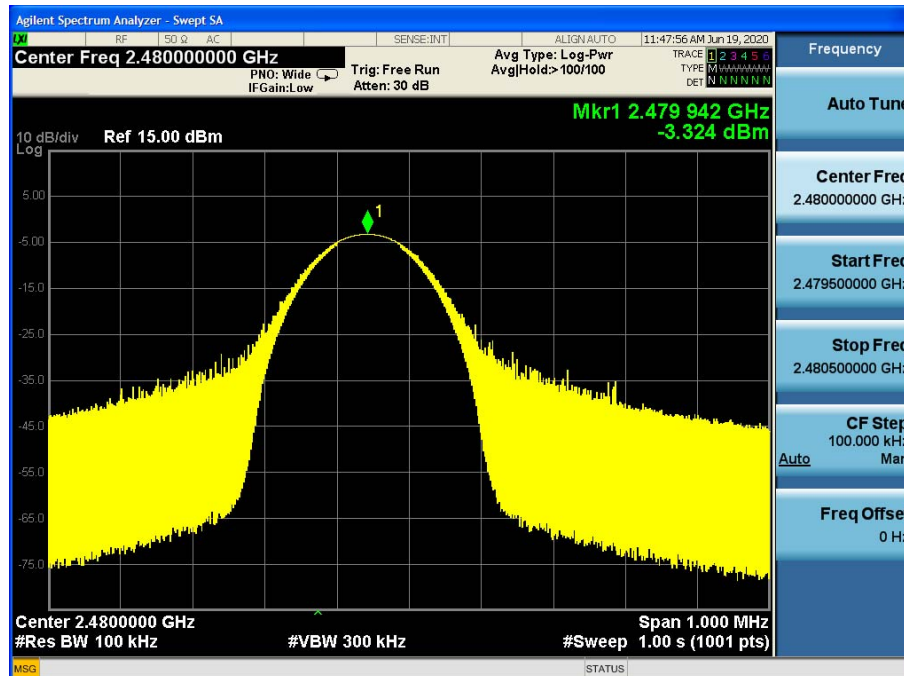
Channel 1: 2.403 GHz:



Channel 8: 2.441GHz:



Channel 16:2.480 GHz:



5.6 Conducted Spurious Emissions

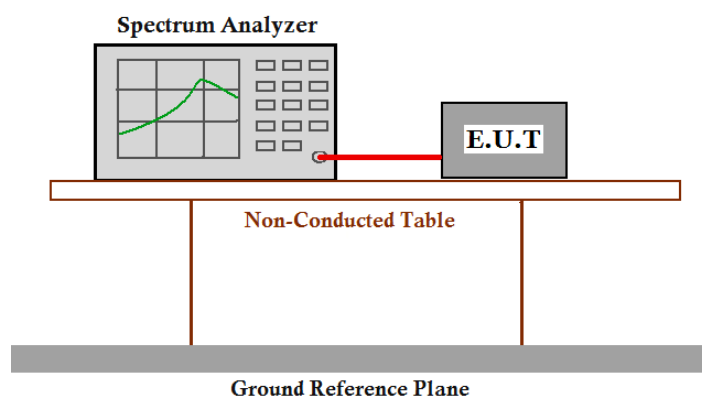
Test Requirement: FCC Part 15 C section 15.247

(d) In any 100 kHz 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 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power. Based on either an RF conducted or a radiated measurement. Provided the transmitter demonstrates compliance with the peak conducted power limits.

Test Method: ANSI C63.10:2013 and KDB 558074 D01 v05r02, KDB 662911 D01

Test Status: Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, channel and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.

Test Configuration:



Test Procedure:

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer or power meter.
2. Set the spectrum analyzer: RBW=100 KHz, VBW = 300KHz. Sweep = auto; Detector Function = Peak. Trace = Max Hold, Scan up through 10th harmonic.
3. Measure the Conducted Spurious Emissions of the test frequency with special test status.
4. Repeat until all the test status is investigated.
5. Report the worse case.

Result plot as follows:

Channel 1: 2.403 GHz



Channel 8: 2.441GHz:



Channel 16: 2.480 GHz



The unit does meet the FCC requirements.

5.7 Radiated Spurious Emissions

Test Requirement: FCC Part 15 C section 15.247
(d) In any 100 kHz 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 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, and provided the transmitter demonstrates compliance with the peak conducted power limits.

Test Method: ANSI C63.10:2013 and KDB 558074 D01 v05r02, KDB 662911 D01

Test Status: Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, channels and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.

Detector: For PK value:

RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

For AV value:

RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz, 9kHz for < 30 MHz

VBW = 10 Hz

Sweep = auto

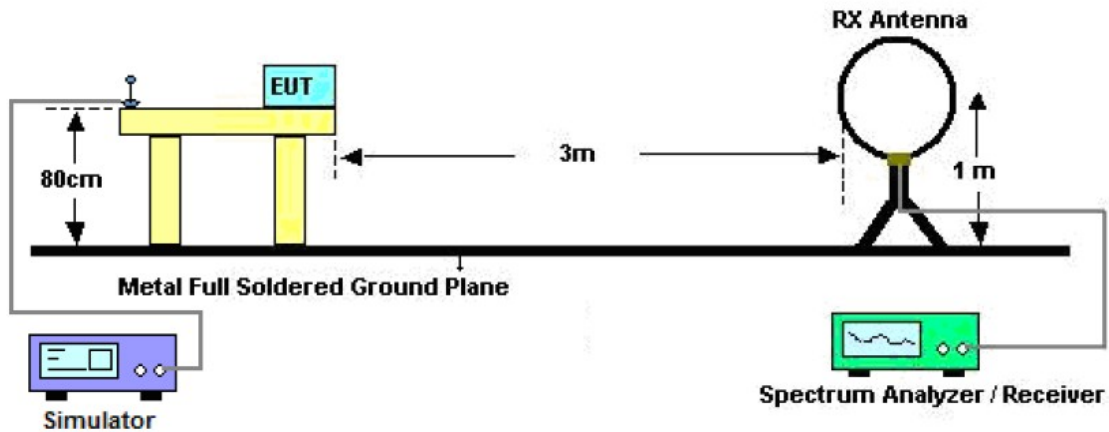
Detector function = peak

Trace = max hold

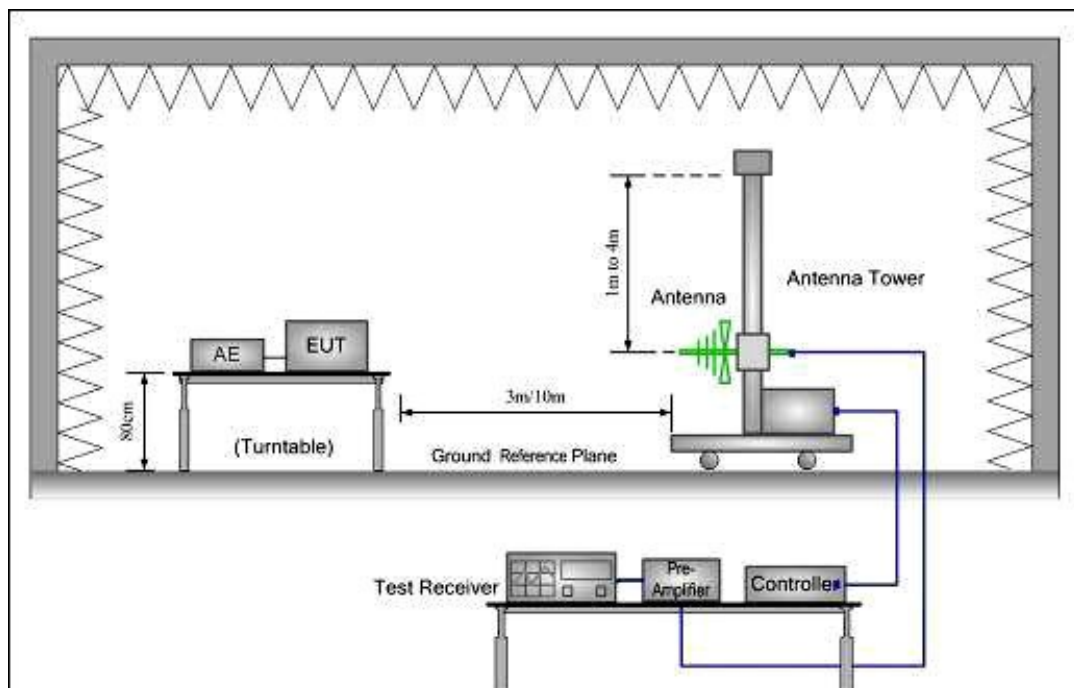
15.209 Limit: 40.0 dB μ V/m between 30 MHz & 88 MHz
43.5 dB μ V/m between 88 MHz & 216 MHz
46.0 dB μ V/m between 216 MHz & 960 MHz
54.0 dB μ V/m above 960 MHz

Test Configuration:

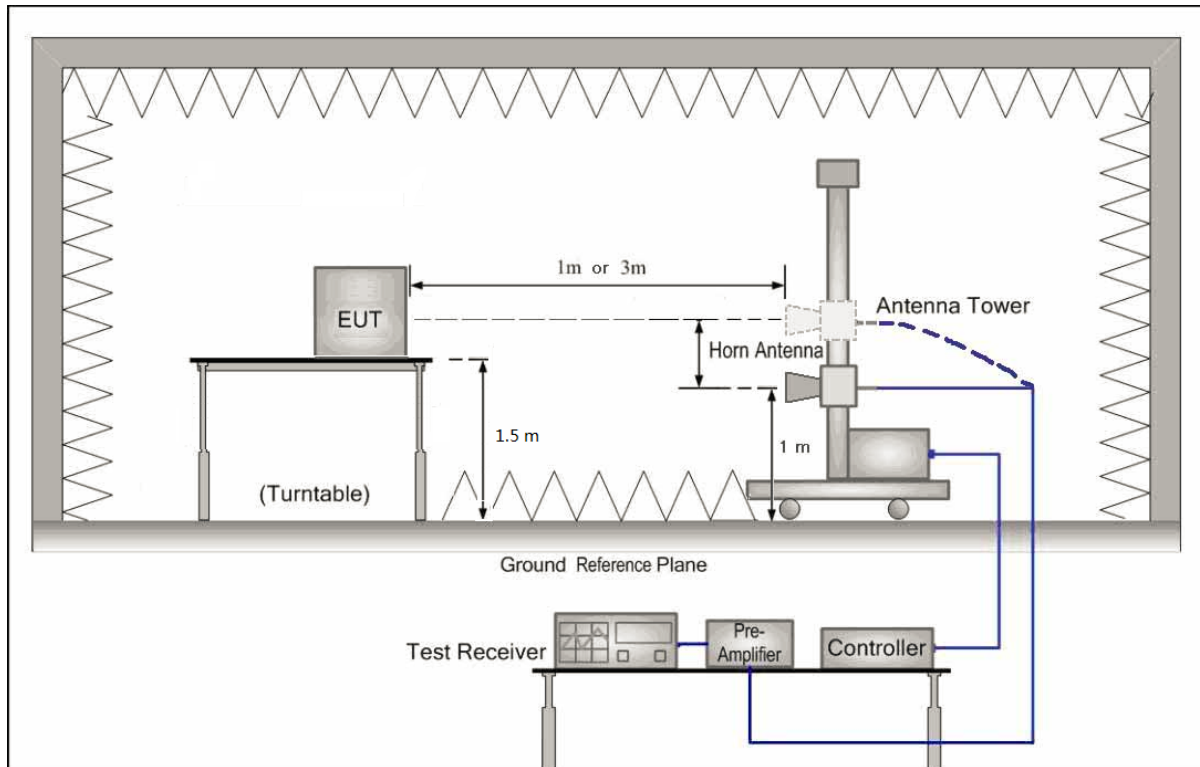
- 1) 9kHz to 30MHz emissions:



- 2) 30 MHz to 1 GHz emissions:



3) 1 GHz to 40 GHz emissions:



Test Procedure: (1) The receiver was scanned from 0.009MHz to 25GHz. When an emission was found, the table was rotated to produce the maximum signal strength. An initial pre-scan was performed for in peak detection mode using the receiver. The EUT was measured for both the Horizontal and Vertical polarities and performed a pre-test three orthogonal planes. For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. After pre-test, it was found that the worst radiation emission was get at the X position. So the data shown was the X position only. The worst case emissions were reported.

(2) Now set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit specified in Section 15.209. If the dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from $20\log(\text{dwell time}/100 \text{ ms})$, in an effort to demonstrate compliance with the 15.209 limit. Submit this data.

(3) Pre-test under all modes below 1GHz, choose the worst case mode record On the report.

5.7.1 Harmonic and other spurious emissions

Test at Channel 1 (2.403 GHz) in transmitting status

9 kHz ~30 MHz Test result

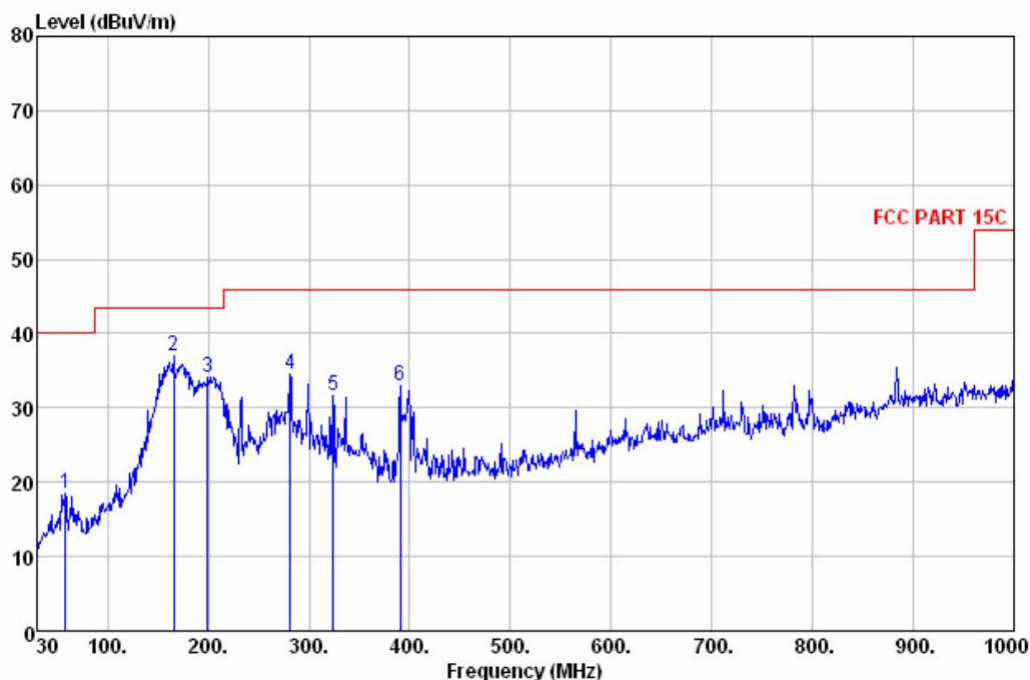
The Low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not report

30 MHz~1 GHz Spurious Emissions .Quasi-Peak Measurement

Horizontal:

Peak scan

Level (dB μ V/m)



Quasi-peak measurement

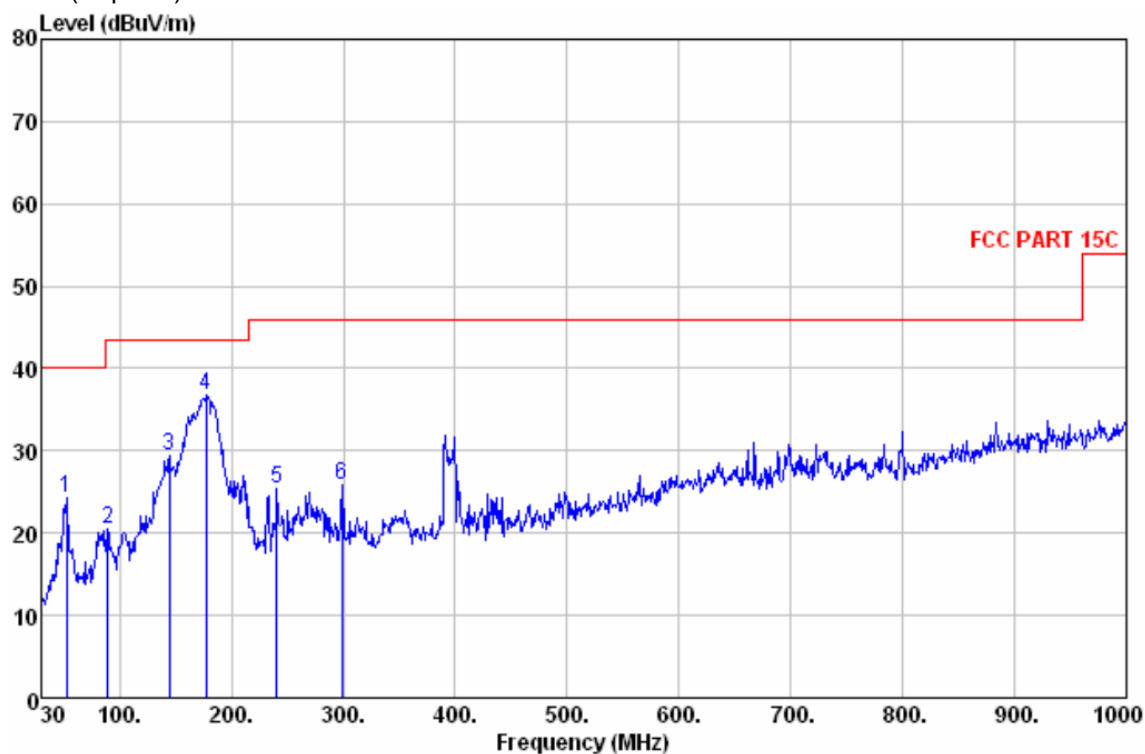
No.	Freq MHz	Read Level dB μ V	Antenna Factor dB	Cable Loss dB	Preamp Factor dB	Level dB μ V/m	Limit Line dB μ V/m	Over Limit dB	Pol/ Phase	Remark
1	58.130	29.95	15.98	0.88	28.27	18.54	40.00	-21.46	HORIZONTAL	QP
2	165.800	47.22	16.66	1.54	28.33	37.09	43.50	-6.41	HORIZONTAL	QP
3	199.750	46.23	14.12	1.70	27.89	34.16	43.50	-9.34	HORIZONTAL	QP
4	281.230	42.54	17.67	2.05	27.68	34.58	46.00	-11.42	HORIZONTAL	QP
5	323.910	38.35	18.67	2.20	27.50	31.72	46.00	-14.28	HORIZONTAL	QP
6	390.840	38.32	20.50	2.42	28.27	32.97	46.00	-13.03	HORIZONTAL	QP

Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor

Vertical:

Peak scan

Level (dB μ V/m)



Quasi-peak measurement

No.	Freq MHz	Read Level dB μ V	Antenna Factor dB	Cable Loss dB	Preamp Factor dB	Level dB μ V/m	Limit Line dB μ V/m	Over Limit dB	Pol/ Phase	Remark
1	52.310	35.36	16.57	0.83	28.50	24.26	40.00	-15.74	VERTICAL	QP
2	89.170	35.47	12.38	1.10	28.38	20.57	43.50	-22.93	VERTICAL	QP
3	144.460	39.60	16.82	1.43	28.38	29.47	43.50	-14.03	VERTICAL	QP
4	177.440	47.70	15.55	1.60	27.98	36.87	43.50	-6.63	VERTICAL	QP
5	240.490	34.52	16.20	1.89	27.20	25.41	46.00	-20.59	VERTICAL	QP
6	298.690	33.36	18.00	2.12	27.59	25.89	46.00	-20.11	VERTICAL	QP

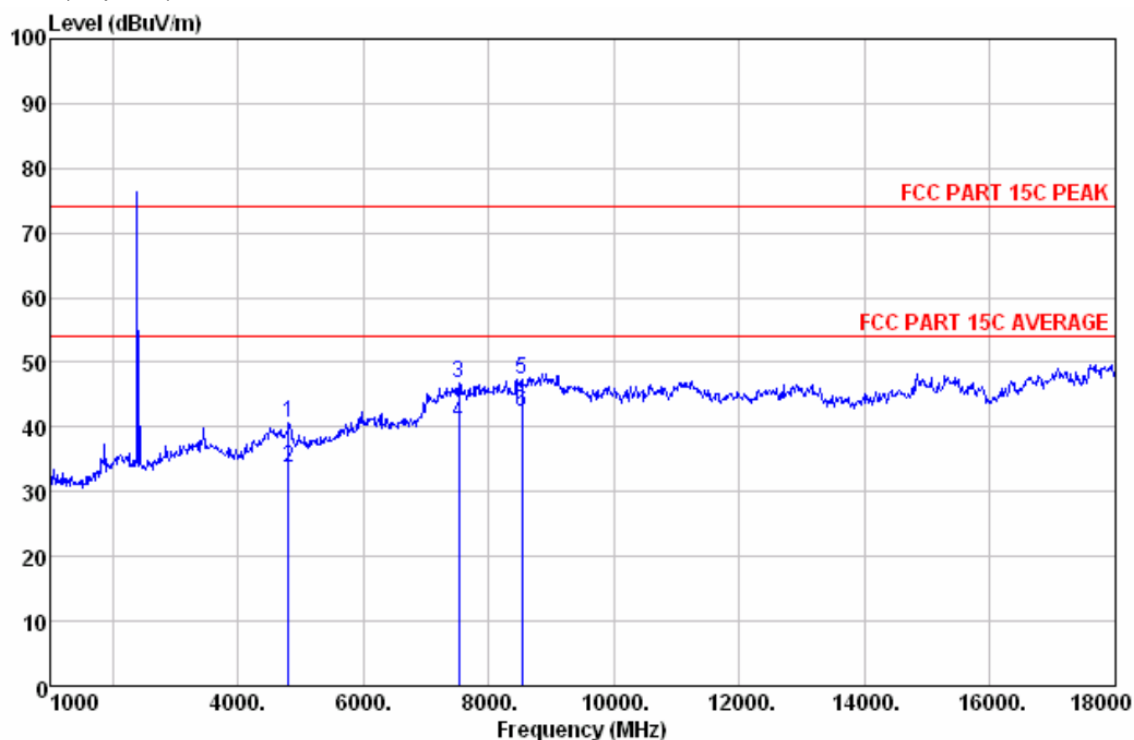
Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor

Spurious emissions above 1GHz

Horizontal:

Peak scan

Level (dBμV/m)



Quasi-peak measurement

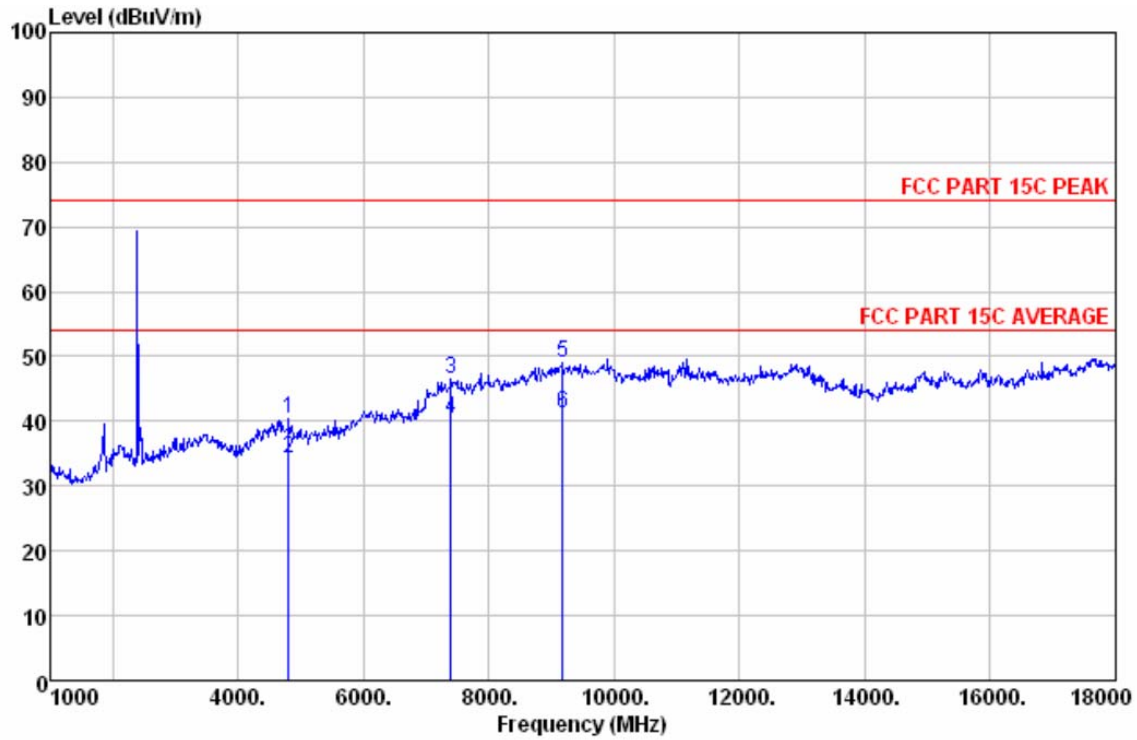
No.	Freq MHz	Read Level dBμV	Antenna Factor dB	Cable Loss dB	Preamp Factor dB	Level dBμV/m	Limit dBμV/m	Over Limit dB	Pol/ Phase	Remark
14808.000		35.00	33.35	0.00	27.62	40.73	74.00	-33.27	HORIZONTAL	Peak
24808.000		28.00	33.35	0.00	27.62	33.73	54.00	-20.27	HORIZONTAL	Average
37528.000		36.93	37.19	0.00	27.32	46.80	74.00	-27.20	HORIZONTAL	Peak
47528.000		30.93	37.19	0.00	27.32	40.80	54.00	-13.20	HORIZONTAL	Average
58531.000		36.73	37.86	0.00	27.25	47.34	74.00	-26.66	HORIZONTAL	Peak
68531.000		31.73	37.86	0.00	27.25	42.34	54.00	-11.66	HORIZONTAL	Average

Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor

Vertical:

Peak scan

Level (dBμV/m)



Quasi-peak measurement

No.	Freq MHz	Read Level dBμV	Antenna Factor dB	Cable Loss dB	Preamp Factor dB	Level dBμV/m	Limit Line dBμV/m	Over Limit dB	Pol/ Phase	Remark
14808.000		34.61	33.35	0.00	27.62	40.34	74.00	-33.66	VERTICAL	Peak
24808.000		28.61	33.35	0.00	27.62	34.34	54.00	-19.66	VERTICAL	Average
37392.000		36.76	37.03	0.00	27.32	46.47	74.00	-27.53	VERTICAL	Peak
47392.000		30.76	37.03	0.00	27.32	40.47	54.00	-13.53	VERTICAL	Average
59177.000		37.52	38.80	0.00	27.19	49.13	74.00	-24.87	VERTICAL	Peak
69177.000		29.52	38.80	0.00	27.19	41.13	54.00	-12.87	VERTICAL	Average

Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor

Test at Channel 8 (2.441 GHz) in transmitting status

9 kHz~30MHz Test result

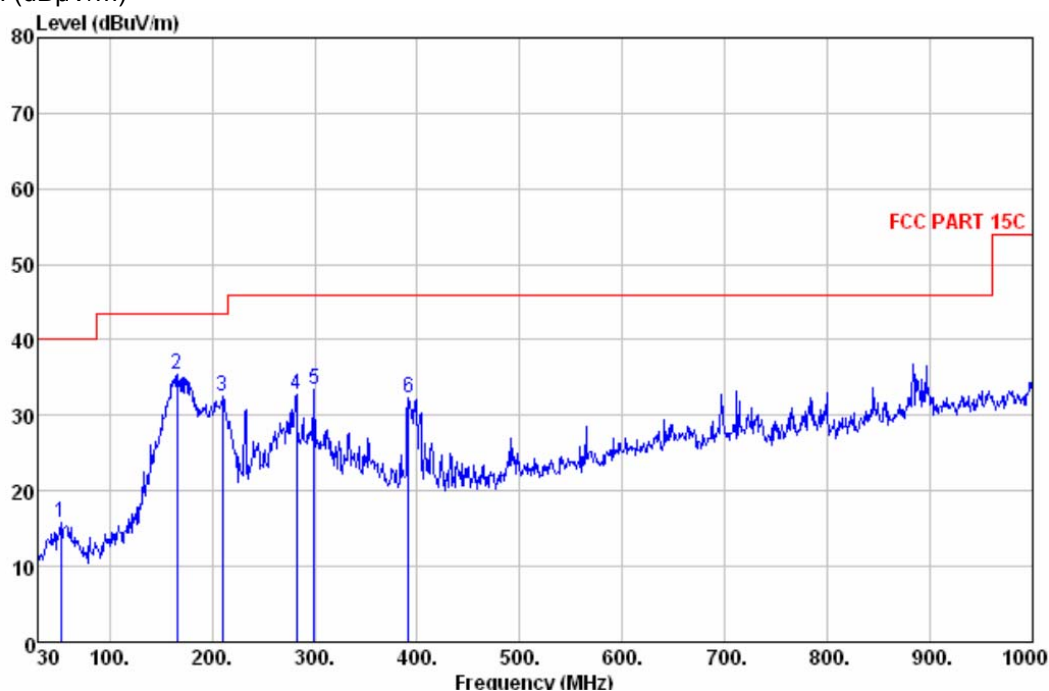
The Low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not report

30 MHz~1 GHz Spurious Emissions. Quasi-Peak Measurement

Horizontal:

Peak scan

Level (dBμV/m)



Quasi-peak measurement

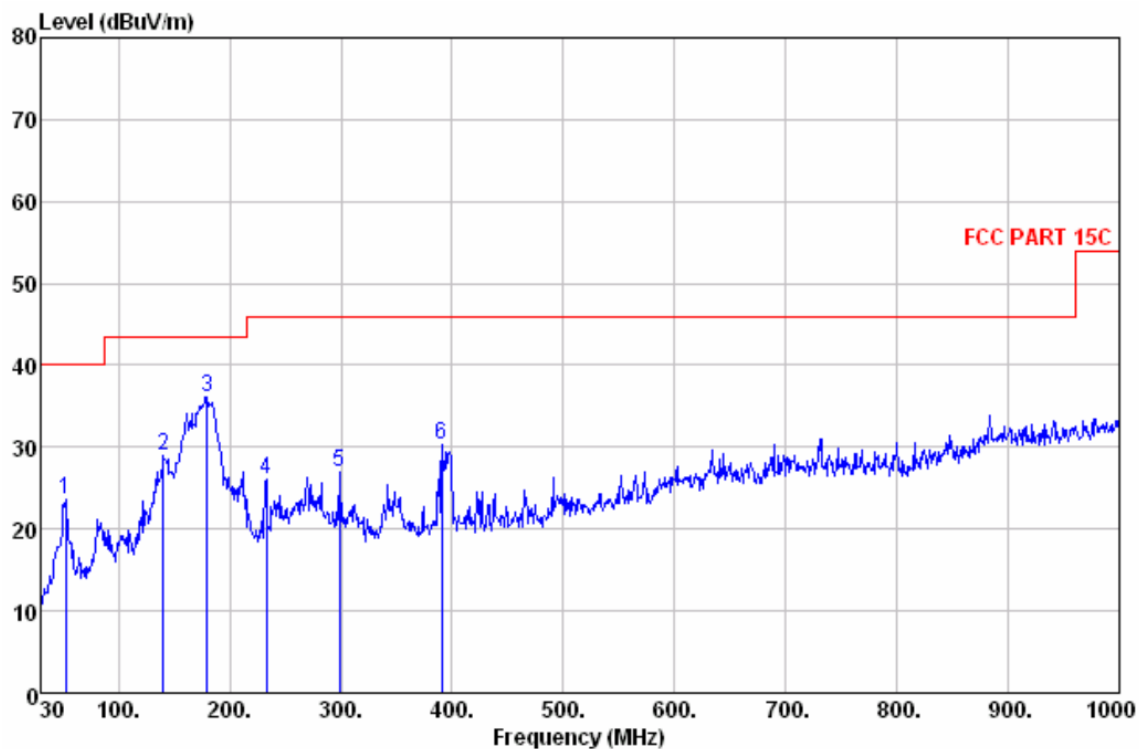
No.	Freq MHz	Read Level dBμV	Antenna Factor dB	Cable Loss dB	Preamp Factor dB	Level dBμV/m	Limit Line dBμV/m	Over Limit dB	Pol/ Phase	Remark
1	52.310	26.90	16.57	0.83	28.50	15.80	40.00	-24.20	HORIZONTAL	QP
2	165.800	45.50	16.66	1.54	28.33	35.37	43.50	-8.13	HORIZONTAL	QP
3	210.420	43.67	14.52	1.75	27.51	32.43	43.50	-11.07	HORIZONTAL	QP
4	282.200	40.57	17.69	2.05	27.66	32.65	46.00	-13.35	HORIZONTAL	QP
5	299.660	40.84	18.02	2.12	27.60	33.38	46.00	-12.62	HORIZONTAL	QP
6	391.810	37.55	20.53	2.42	28.26	32.24	46.00	-13.76	HORIZONTAL	QP

Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor

Vertical:

Peak scan

Level (dB μ V/m)



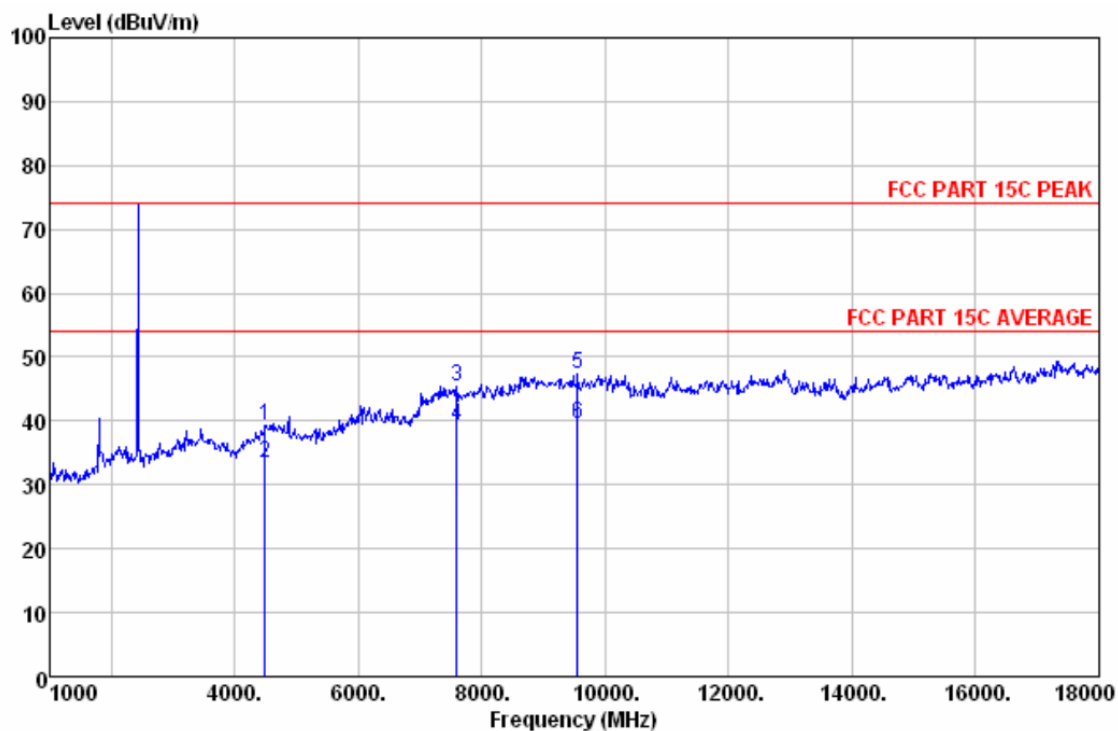
Quasi-peak measurement

No.	Freq MHz	Read Level dB μ V	Antenna Factor dB	Cable Loss dB	Preamp Factor dB	Level dB μ V/m	Limit Line dB μ V/m	Over Limit dB	Pol/ Phase	Remark
1	52.310	34.62	16.57	0.83	28.50	23.52	40.00	-16.48	VERTICAL	QP
2	140.580	39.09	16.72	1.41	28.22	29.00	43.50	-14.50	VERTICAL	QP
3	179.380	47.04	15.37	1.61	27.84	36.18	43.50	-7.32	VERTICAL	QP
4	232.730	36.02	15.72	1.85	27.42	26.17	46.00	-19.83	VERTICAL	QP
5	298.690	34.53	18.00	2.12	27.59	27.06	46.00	-18.94	VERTICAL	QP
6	390.840	35.55	20.50	2.42	28.27	30.20	46.00	-15.80	VERTICAL	QP

Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor

Spurious emissions above 1GHz**Horizontal:**

Peak scan

Level (dB μ V/m)

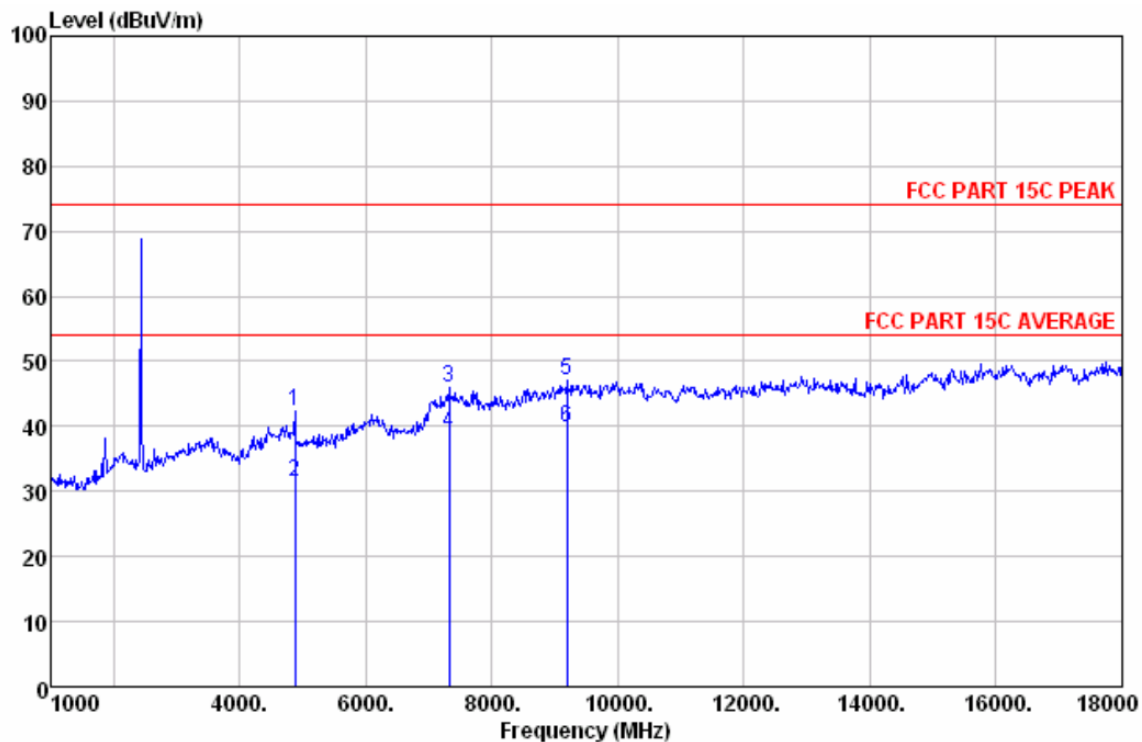
Quasi-peak measurement

No.	Freq MHz	Read Level dB μ V	Antenna Factor dB	Cable Loss dB	Preamp Factor dB	Level dB μ V/m	Limit Line dB μ V/m	Over Limit dB	Pol/ Phase	Remark
14485.000		34.10	32.99	0.00	27.68	39.41	74.00	-34.59	HORIZONTAL	Peak
24485.000		28.10	32.99	0.00	27.68	33.41	54.00	-20.59	HORIZONTAL	Average
37596.000		35.46	37.16	0.00	27.32	45.30	74.00	-28.70	HORIZONTAL	Peak
47596.000		29.46	37.16	0.00	27.32	39.30	54.00	-14.70	HORIZONTAL	Average
59551.000		35.76	38.82	0.00	27.14	47.44	74.00	-26.56	HORIZONTAL	Peak
69551.000		27.76	38.82	0.00	27.14	39.44	54.00	-14.56	HORIZONTAL	Average

Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor

Vertical:

Peak scan

Level (dB μ V/m)

Quasi-peak measurement

No.	Freq MHz	Read Level dB μ V	Antenna Factor dB	Cable Loss dB	Preamp Factor dB	Level dB μ V/m	Limit Line dB μ V/m	Over Limit dB	Pol/ Phase	Remark
14876.000		36.69	33.40	0.00	27.61	42.48	74.00	-31.52	VERTICAL	Peak
24876.000		25.69	33.40	0.00	27.61	31.48	54.00	-22.52	VERTICAL	Average
37324.000		36.34	36.92	0.00	27.33	45.93	74.00	-28.07	VERTICAL	Peak
47324.000		29.34	36.92	0.00	27.33	38.93	54.00	-15.07	VERTICAL	Average
59194.000		35.35	38.80	0.00	27.19	46.96	74.00	-27.04	VERTICAL	Peak
69194.000		28.35	38.80	0.00	27.19	39.96	54.00	-14.04	VERTICAL	Average

Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor

Test at Channel 16 (2.480 GHz) in transmitting status

9kHz~30MHz Test result

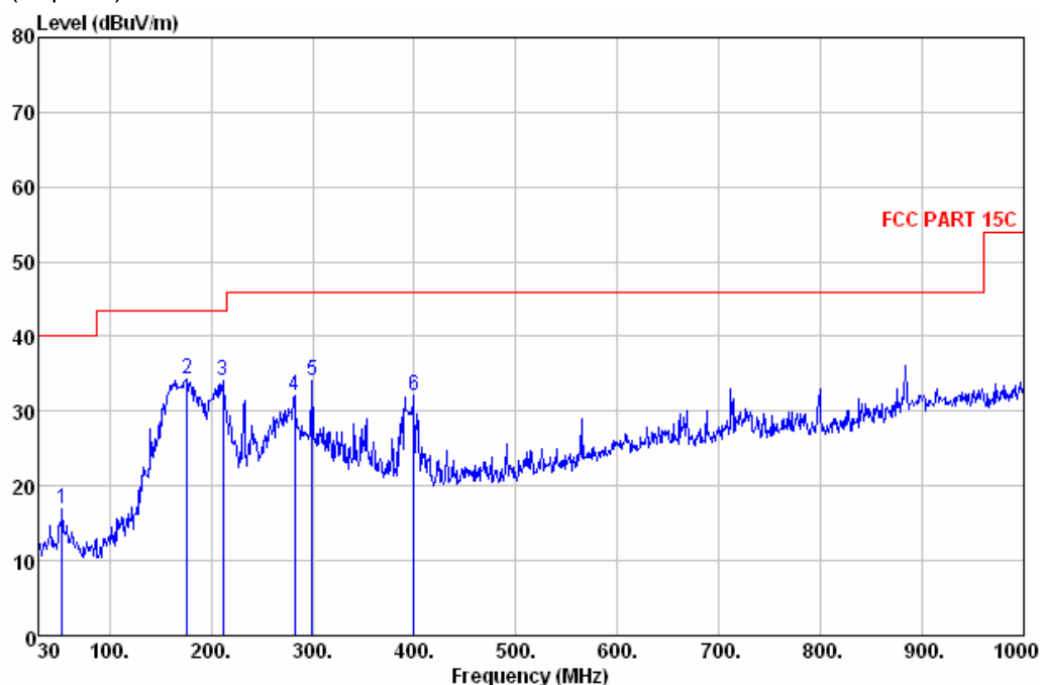
The Low frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not report

30 MHz~1 GHz Spurious Emissions. Quasi-Peak Measurement

Horizontal:

Peak scan

Level (dBμV/m)



Quasi-peak measurement

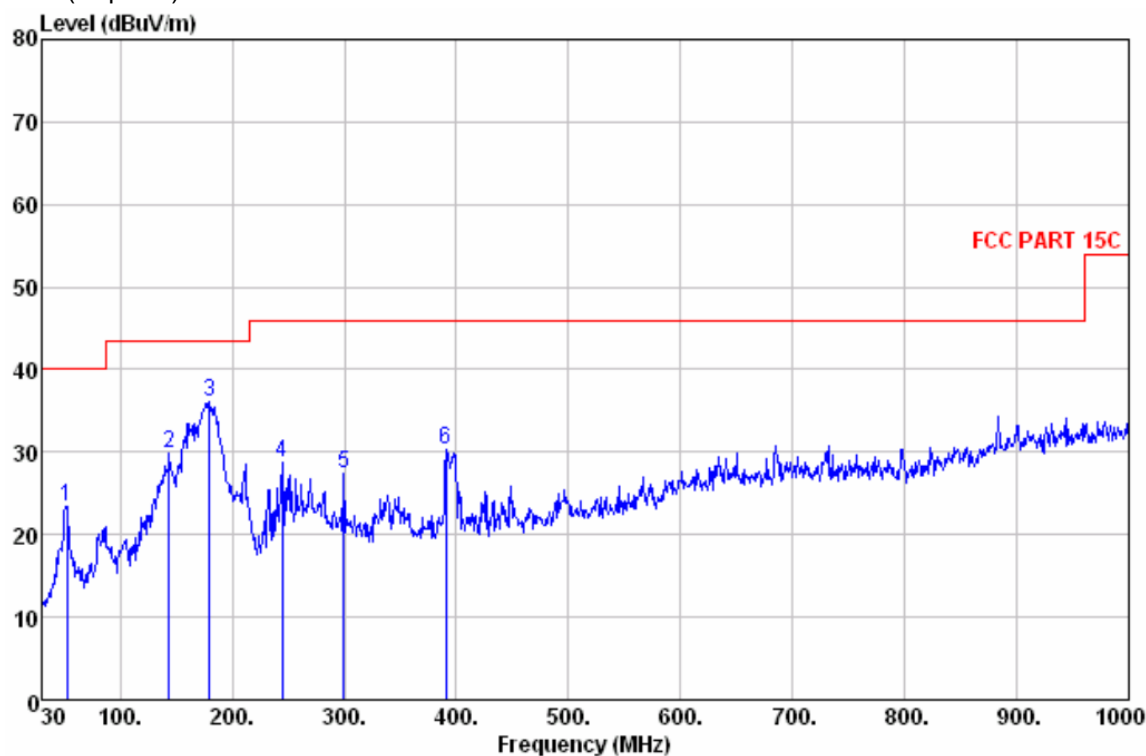
No.	Freq MHz	Read Level dBμV	Antenna Factor dB	Cable Loss dB	Preamp Factor dB	Level dBμV/m	Limit Line dBμV/m	Over Limit dB	Pol/ Phase	Remark
1	53.280	28.03	16.47	0.83	28.46	16.87	40.00	-23.13	HORIZONTAL	QP
2	176.470	45.16	15.65	1.59	28.04	34.36	43.50	-9.14	HORIZONTAL	QP
3	211.390	45.39	14.55	1.76	27.54	34.16	43.50	-9.34	HORIZONTAL	QP
4	282.200	40.09	17.69	2.05	27.66	32.17	46.00	-13.83	HORIZONTAL	QP
5	299.660	41.50	18.02	2.12	27.60	34.04	46.00	-11.96	HORIZONTAL	QP
6	399.570	37.08	20.74	2.45	28.20	32.07	46.00	-13.93	HORIZONTAL	QP

Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor

Vertical:

Peak scan

Level (dBμV/m)



Quasi-peak measurement

No.	Freq MHz	Read Level dBμV	Antenna Factor dB	Cable Loss dB	Preamp Factor dB	Level dBμV/m	Limit Line dBμV/m	Over Limit dB	Pol/ Phase	Remark
1	52.310	34.51	16.57	0.83	28.50	23.41	40.00	-16.59	VERTICAL	QP
2	143.490	39.91	16.80	1.43	28.34	29.80	43.50	-13.70	VERTICAL	QP
3	179.380	46.93	15.37	1.61	27.84	36.07	43.50	-7.43	VERTICAL	QP
4	244.370	37.88	16.29	1.90	27.24	28.83	46.00	-17.17	VERTICAL	QP
5	299.660	34.95	18.02	2.12	27.60	27.49	46.00	-18.51	VERTICAL	QP
6	390.840	35.58	20.50	2.42	28.27	30.23	46.00	-15.77	VERTICAL	QP

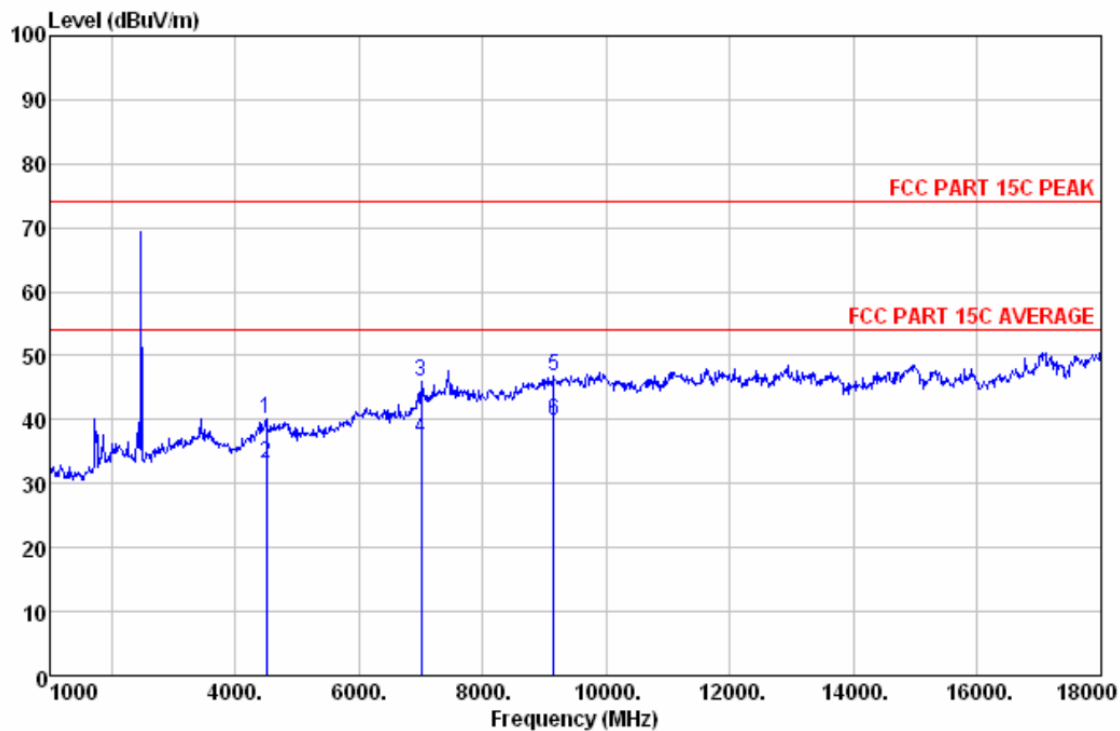
Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor

Spurious emissions above 1GHz

Horizontal:

Peak scan

Level (dBμV/m)



Quasi-peak measurement

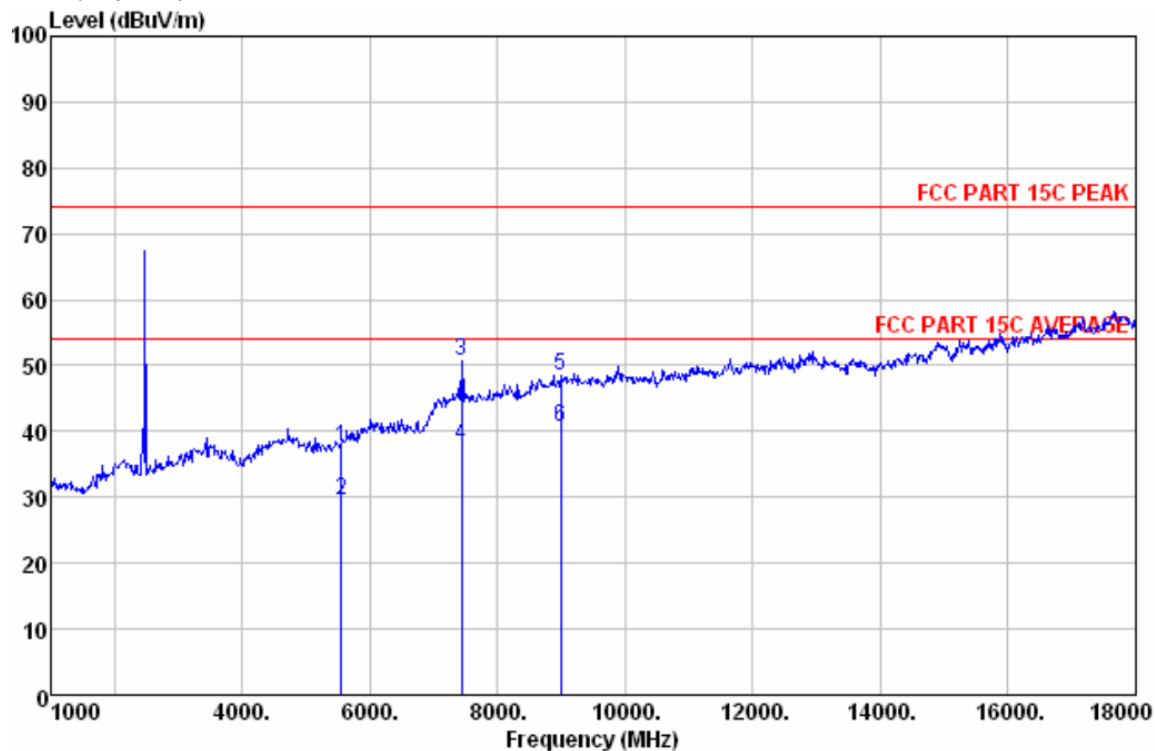
No.	Freq MHz	Read Level dBμV	Antenna Factor dB	Cable Loss dB	Preamp Factor dB	Level dBμV/m	Limit Line dBμV/m	Over Limit dB	Pol/ Phase	Remark
14502.000		34.65	33.10	0.00	27.68	40.07	74.00	-33.93	HORIZONTAL	Peak
24502.000		27.65	33.10	0.00	27.68	33.07	54.00	-20.93	HORIZONTAL	Average
37001.000		36.89	36.40	0.00	27.34	45.95	74.00	-28.05	HORIZONTAL	Peak
47001.000		27.89	36.40	0.00	27.34	36.95	54.00	-17.05	HORIZONTAL	Average
59143.000		35.15	38.80	0.00	27.19	46.76	74.00	-27.24	HORIZONTAL	Peak
69143.000		28.15	38.80	0.00	27.19	39.76	54.00	-14.24	HORIZONTAL	Average

Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor

Vertical:

Peak scan

Level (dBμV/m)



Quasi-peak measurement

No.	Freq MHz	Read Level dBμV	Antenna Factor dB	Cable Loss dB	Preamp Factor dB	Level dBμV/m	Limit Line dBμV/m	Over Limit dB	Pol/ Phase	Remark
15556.000		30.96	34.14	0.00	27.48	37.62	74.00	-36.38	VERTICAL	Peak
25556.000		22.96	34.14	0.00	27.48	29.62	54.00	-24.38	VERTICAL	Average
37443.000		40.97	37.11	0.00	27.32	50.76	74.00	-23.24	VERTICAL	Peak
47443.000		27.97	37.11	0.00	27.32	37.76	54.00	-16.24	VERTICAL	Average
58990.000		37.02	38.78	0.00	27.21	48.59	74.00	-25.41	VERTICAL	Peak
68990.000		29.02	38.78	0.00	27.21	40.59	54.00	-13.41	VERTICAL	Average

Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor

The field strength is calculated by adding the Antenna Factor. Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), the amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.

Hence there no other emissions have been reported.

Remark:

- 1) .For this intentional radiator operates below 25 GHz. The spectrum shall be investigated to the tenth harmonics of the highest fundamental frequency. And above the third harmonic of this intentional radiator, the disturbance is very low. So the test result only displays to 3rd harmonic.
- 2). As shown in Section, for frequencies above 1000 MHz. the above field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.
- 3). The test only perform the EUT in transmitting status since the test frequencies were over 1GHz only required transmitting status.

Test result: The unit does meet the FCC requirements.

5.8 Radiated Emissions which fall in the restricted bands

Test Requirement:	FCC Part 15 C section 15.247 (d) In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).
Test Method:	ANSI C63.10:2013 and KDB 558074 D01 v05r02, KDB 662911 D01
Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, channels and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)
Limit:	40.0 dB μ V/m between 30MHz & 88MHz; 43.5 dB μ V/m between 88MHz & 216MHz; 46.0 dB μ V/m between 216MHz & 960MHz; 54.0 dB μ V/m above 960MHz.
Detector:	For PK value: RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz VBW $\geq$ RBW Sweep = auto Detector function = peak Trace = max hold For AV value: RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz VBW = 10Hz Sweep = auto Detector function = peak Trace = max hold

Section 15.205 Restricted bands of operation.

(a) Except as shown in paragraph (d) of this section. Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 -	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.52525	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	156.7 - 156.9	3260 - 3267	23.6 - 24.0
12.29 - 12.293	162.0125 - 167.17	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	167.72 - 173.2	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	240 - 285	3600 - 4400	
13.36 - 13.41	322 - 335.4		

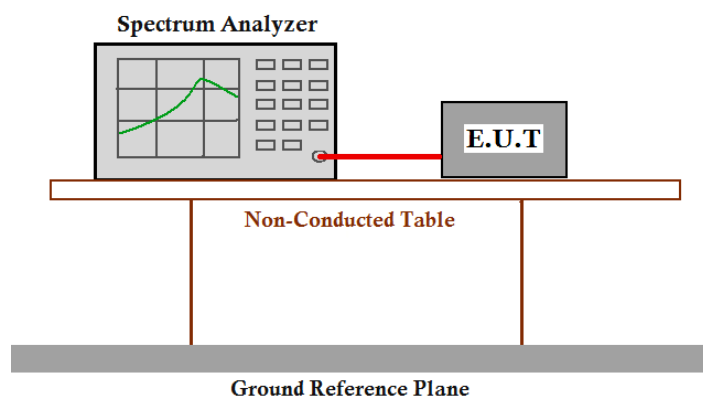
Test Result:

Pre-test under all modes; choose the worst case mode record in the report.

Frequency (MHz)	Reading Level (dB μ V/m)	Correct (dB/m)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna polarization	Detector
Low Channel							
2310.000	25.94	6.54	32.48	74.00	-41.52	H	PK
2310.000	16.41	6.54	22.95	54.00	-31.05	H	AV
2390.000	30.12	6.61	36.73	74.00	-37.27	H	PK
2390.000	16.77	6.61	23.38	54.00	-30.62	H	AV
2310.000	26.77	6.54	33.31	74.00	-40.69	V	PK
2310.000	15.98	6.54	22.52	54.00	-31.48	V	AV
2390.000	30.26	6.61	36.87	74.00	-37.13	V	PK
2390.000	17.45	6.61	24.06	54.00	-29.94	V	AV
High Channel							
2483.500	28.15	6.70	34.85	74.00	-39.15	H	PK
2483.500	11.43	6.70	18.13	54.00	-35.87	H	AV
2500.000	25.76	6.72	32.48	74.00	-41.52	H	PK
2500.000	11.55	6.72	18.27	54.00	-35.73	H	AV
2483.500	28.87	6.70	35.57	74.00	-38.43	V	PK
2483.500	13.54	6.70	20.24	54.00	-33.76	V	AV
2500.000	29.97	6.72	36.69	74.00	-37.31	V	PK
2500.000	16.44	6.72	23.16	54.00	-30.84	V	AV

5.9 Band Edges Requirement

Test Requirement:	FCC Part 15 C section 15.247 (d) In any 100 kHz 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 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power. Based on either an RF conducted or a radiated measurement. Provided the transmitter demonstrates compliance with the peak conducted power limits.
Frequency Band:	2400 MHz to 2483.5 MHz
Test Method:	ANSI C63.10:2013 and KDB 558074 D01 v05r02, KDB 662911 D01 Multiple Transmitter Output v02r01
Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, channels and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.
Test Configuration:	



Test Procedure:

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer or power meter.
2. Set RBW=100 kHz, VBW=300 KHz, suitable frequency span including 1000 kHz bandwidth from band edge.
3. Measure the Conducted Spurious Emissions and Radiated Emissions of the test frequency with special test status.
4. Repeat until all the test status is investigated.
5. Report the worse.

Test result with plots as follows:

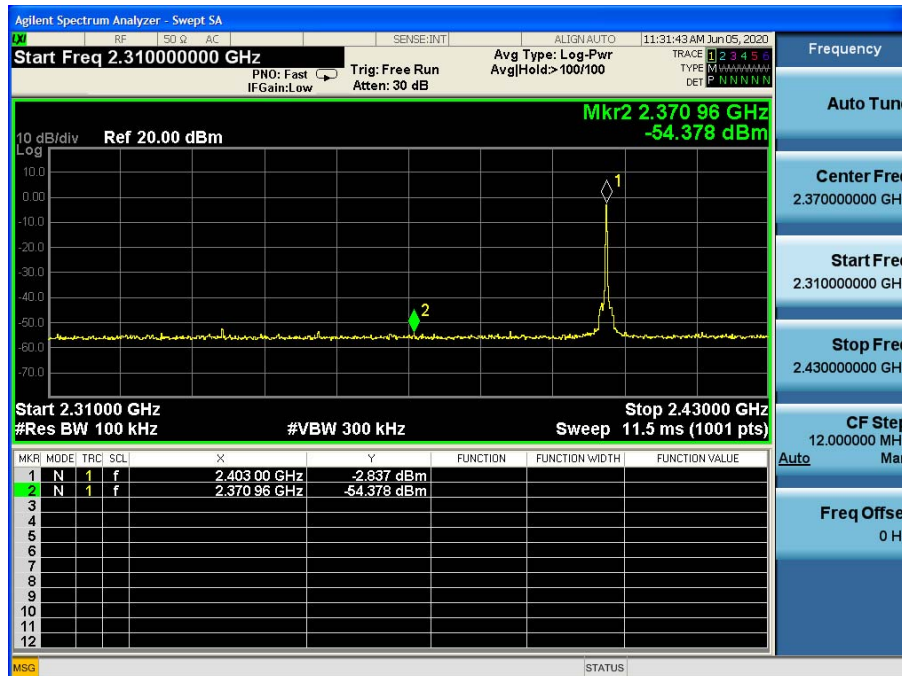
The band edges was measured and recorded Result:

The Lower Edges attenuated more than 20dB.

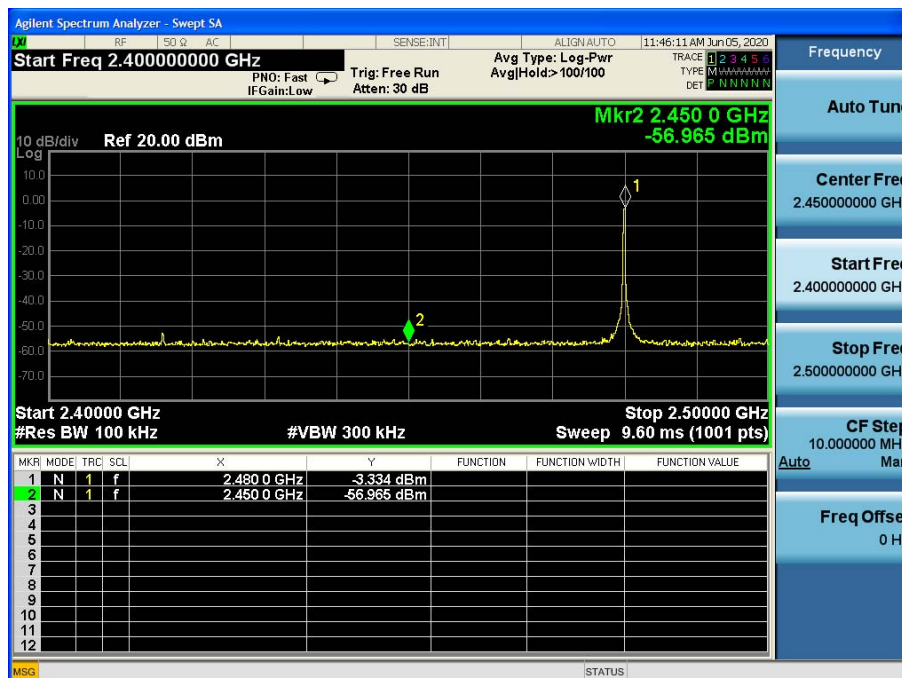
The Upper Edges attenuated more than 20dB.

Result plot as follows:

Channel 1: 2.403 GHz



Channel 16: 2.480 GHz



Test result: The unit does meet the FCC requirements.

5.10 Conducted Emissions at Mains Terminals 150 kHz to 30MHz

Test Requirement: FCC Part 15 C section 15.207

Test Voltage: 120V~ 60Hz

Test Method: ANSI C63.10:2013 Clause 6.2

Frequency Range: 150 kHz to 30 MHz

Detector: Peak for pre-scan (9 kHz Resolution Bandwidth)

Test Limit

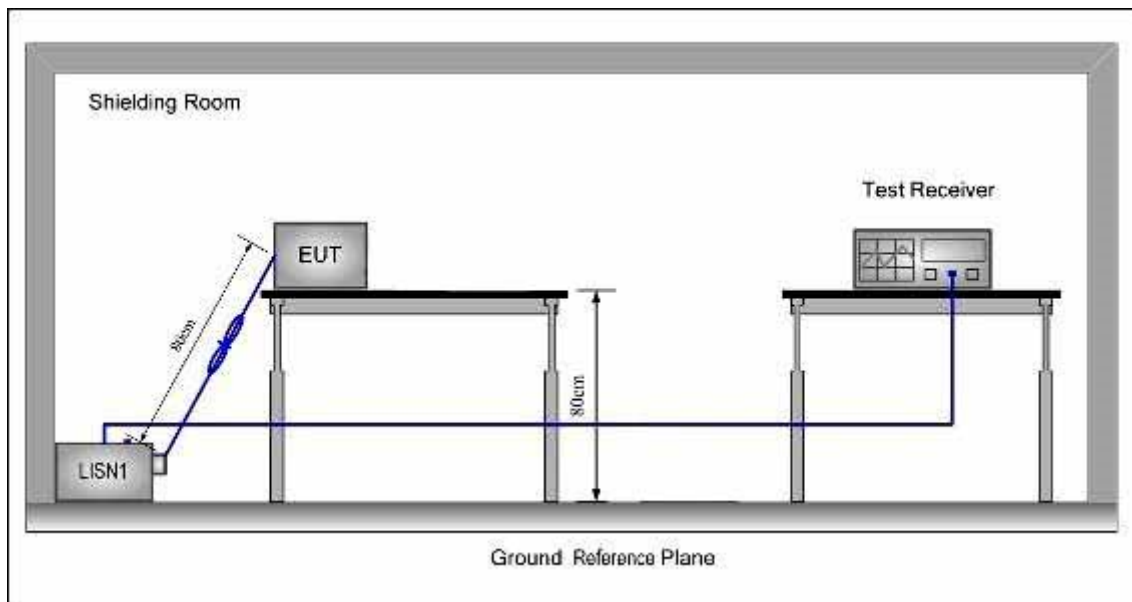
Limits for conducted disturbance at the mains ports of class B

Frequency Range	Class B Limit dB(μV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50
NOTE 1 The limit decreases linearly with the logarithm of the frequency in the range 0,15 MHz to 0,50 MHz.		

EUT Operation:

Test in normal operating mode. For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage.

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, channels and antenna ports (if EUT with antenna diversity architecture).

Test Configuration:**Test procedure:**

1. The mains terminal disturbance voltage test was conducted in a shielded room.
2. The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu\text{H} + 5\Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
3. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.
4. The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0,4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0,8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0,8 m from the LISN 2.

5.10.1 Measurement Data

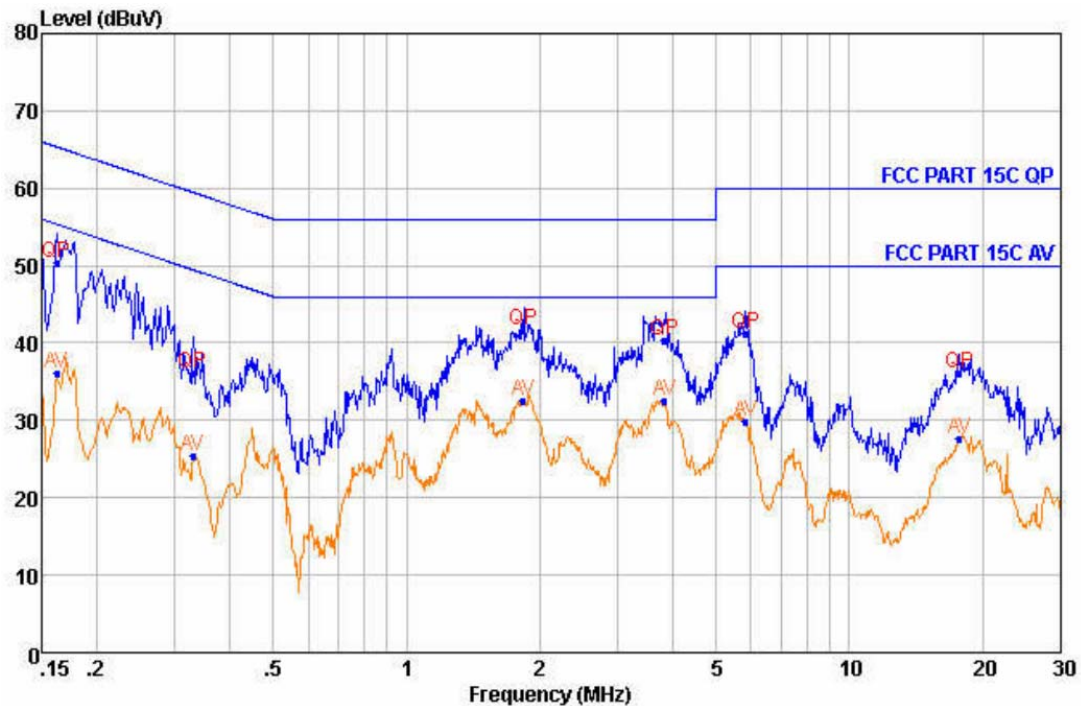
An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected. For EUT the communicating was worst case mode.

The following Quasi-Peak and Average measurements were performed on the EUT
Live line

Peak Scan:

Level (dBμV)

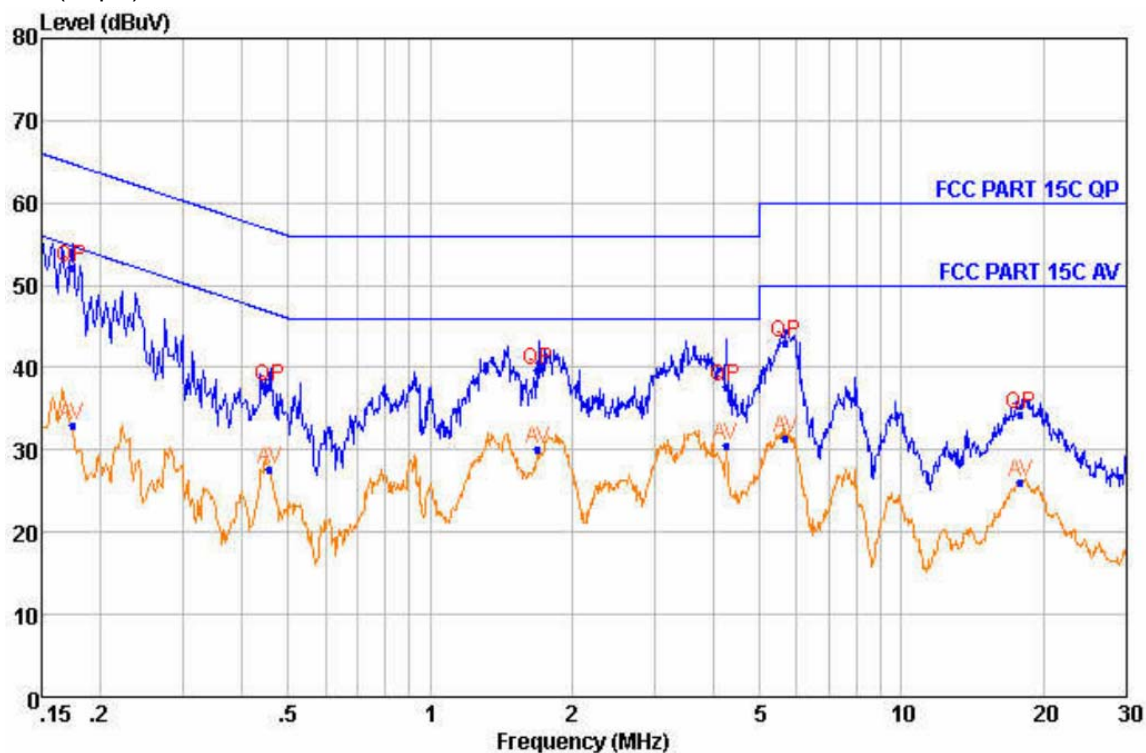


Quasi-peak and Average measurement

NO.	Freq MHz	Level dBμV	Remark	LISN Factor dB	Cable Loss dB	Limit Line dBμV	Margin dB
1	0.162	50.41	QP	9.69	0.20	65.36	-14.95
2	0.162	36.01	Average	9.69	0.20	55.34	-19.33
3	0.330	36.14	QP	9.66	0.24	59.46	-23.32
4	0.330	25.31	Average	9.66	0.24	49.46	-24.15
5	1.835	41.64	QP	9.65	0.34	56.00	-14.36
6	1.835	32.62	Average	9.65	0.34	46.00	-13.38
7	3.833	40.41	QP	9.61	0.38	56.00	-15.59
8	3.833	32.60	Average	9.61	0.38	46.00	-13.40
9	5.825	41.23	QP	9.65	0.41	60.00	-18.77
10	5.825	29.85	Average	9.65	0.41	50.00	-20.15
11	17.715	36.01	QP	9.69	0.47	60.00	-23.99
12	17.715	27.71	Average	9.69	0.47	50.00	-22.29

Neutral Line

Peak Scan:

Level (dB μ V)

Quasi-peak and Average measurement

NO.	Freq MHz	Level dB μ V	Remark	LISN Factor dB	Cable Loss dB	Limit Line dB μ V	Margin dB
1	0.174	52.26	QP	9.67	0.21	64.79	-12.53
2	0.174	32.92	Average	9.67	0.21	54.77	-21.85
3	0.458	37.73	QP	9.67	0.26	56.73	-19.00
4	0.458	27.55	Average	9.67	0.26	46.73	-19.18
5	1.694	39.74	QP	9.62	0.34	56.00	-16.26
6	1.694	29.99	Average	9.62	0.34	46.00	-16.01
7	4.236	37.66	QP	9.62	0.39	56.00	-18.34
8	4.236	30.62	Average	9.62	0.39	46.00	-15.38
9	5.673	42.91	QP	9.62	0.41	60.00	-17.09
10	5.673	31.49	Average	9.62	0.41	50.00	-18.51
11	17.900	34.30	QP	9.62	0.47	60.00	-25.70
12	17.900	26.10	Average	9.62	0.47	50.00	-23.90

-- End of test report --