FCC TEST REPORT
FCC ID:2BO7E-CK3-QC

Report No.....	:	ZHT-250327003W02-2
Product.....	:	Pathfinder Lite MotoNavAI
Trademark.....	:	Cokima
Model(s).....	:	CK3-QC
Model Difference.....	:	/
Applicant.....	:	Cokima Technology(Shenzhen)Co.,Ltd
Address.....	:	1805, Unit 2, Building 1, Lechuanghui Building, 1211, Guihua Community Sightseeing Road, Guanlan Street, Longhua District, Shenzhen, China
Manufacturer.....	:	Cokima Technology(Shenzhen)Co.,Ltd
Address.....	:	1805, Unit 2, Building 1, Lechuanghui Building, 1211, Guihua Community Sightseeing Road, Guanlan Street, Longhua District, Shenzhen, China
Prepared by.....	:	Guangdong Zhonghan Testing Technology Co., Ltd.
Address.....	:	Room 104/201, Building 1, Yibaolai Industrial Park, Qiaotou, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Date of Receipt.....	:	May 7, 2025
Date of Test(s).....	:	May 7, 2025 to Jun. 4, 2025
Date of Issue.....	:	Jun. 4, 2025
Test Standard(s).....	:	FCC CFR Title 47 Part 15 Subpart C Section 15.247
Test procedure.....		ANSI C63.10:2013

In the configuration tested, the EUT complied with the standards specified above.

Tested by:	Reviewed by:	Approved by:
Leon Li	Baret.Wu	Levi Lee
Leon Li/ Engineer	Baret Wu/ Director	Levi Lee/ Manager

Note: The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report shall not be reproduced except in full, without prior written approval of ZHT. This document may be altered or revised by ZHT, personnel only, and shall be noted in the revision of the document.

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1. VERSION

Report No.	Version	Description	Approved
ZHT-250327003W02-2	Rev.01	Initial issue of report	Jun. 4, 2025

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C			
Standard Section	Test Item	Result	Remark
FCC part 15.203/15.247 (b)(4)	Antenna requirement	PASS	
FCC part 15.207	AC Power Line Conducted Emission	N/A	
FCC part 15.247 (b)(3)	Conducted Output Power	PASS	
FCC part 15.247 (a)(2)	Channel Bandwidth	PASS	
FCC part 15.247 (e)	Power Spectral Density	PASS	
FCC part 15.247(d)	Band Edge	PASS	
FCC part 15.205/15.209	Spurious Emission	PASS	

NOTE:

(1) ” N/A” denotes test is not applicable in this Test Report

2.1 TEST FACILITY

Guangdong Zhonghan Testing Technology Co., Ltd.
Add. : Room 104/201, Building 1, Yibaolai Industrial Park, Qiaotou, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

FCC Registration Number:255941
Designation Number: CN0325
IC Registered No.: 29832
CAB identifier: CN0143

2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ± U,where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2,providing a level of confidence of approximately 95 %。

No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF conducted power	±0.16dB
3	Conducted spurious emissions	±0.21dB
4	All radiated emissions (9k-30MHz)	±4.68dB
5	All radiated emissions (<1G)	±4.68dB
6	All radiated emissions (>1G)	±4.89dB
7	Temperature	±0.5°C
8	Humidity	±2%
9	Occupied Bandwidth	±4.96%

Decision Rule

☒ Uncertainty is not included

☐ Uncertainty is included

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Product Name:	Pathfinder Lite MotoNavAI
Test Model No.:	CK3-QC
Hardware Version:	V1.0
Software Version:	V1.0
Sample(s) Status:	Engineer sample
Channel numbers:	802.11b/802.11g /802.11n(HT20):11, /802.11n(HT40):7
Operation Frequency:	802.11b/802.11g /802.11n(HT20): 2412-2462MHz/802.11n(HT40): 2422-2452MHz
Channel separation:	5MHz
Modulation technology:	IEEE 802.11b: DQPSK/DBPSK/DSSS/CCK IEEE 802.11g: QPSK/BPSK/16QAM/64QAM/OFDM IEEE 802.11n: QPSK/BPSK/16QAM/64QAM/OFDM
Antenna Type:	FPC antenna
Antenna gain:	1.75dBi
Power supply:	Input: DC 12 V
Remark:The antenna gain is provided by the customer, if the data provided by the customer is not accurate, Guangdong Zhonghan Testing Technology Co., Ltd. does not assume any responsibility.	

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Test channel	**Frequency (MHz)**
	802.11b/802.11g/802.11n(HT20)
Lowest channel	2412MHz
Middle channel	2437MHz
Highest channel	2462MHz

Test channel	**Frequency (MHz)**
	802.11n(HT40)
Lowest channel	2422MHz
Middle channel	2437MHz
Highest channel	2452MHz

3.2 DESCRIPTION OF TEST MODES

Transmitting mode	Keep the EUT in continuously transmitting mode
Remark: EUT use new battery during the test,the duty cycle >98%, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.	

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Pre-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

Mode	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)
Data rate	1Mbps	6Mbps	6.5Mbps	13.5Mbps

3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Emission

3.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note

Item	Shielded Type	Ferrite Core	Length	Note

Note:

(1) The support equipment was authorized by Declaration of Confirmation.

(2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

(3) The test software is the SecureCRTPortable.exe FX_HH_x86_7.0.0.326 which can set the EUT into the individual test modes.TX Power:Default.

3.5EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Equipment	Manufacturer	Model	Serial No.	Last Cal.	Next Cal.
1	Receiver	R&S	ESCI	100874	May 6, 2025	May 5, 2026
2	Loop Antenna	TESEQ	HLA6121	58357	Oct. 11, 2024	Oct. 10, 2025
3	Amplifier	Schwarzbeck	BBV 9743 B	00378	May 6, 2025	May 5, 2026
4	Amplifier	Schwarzbeck	BBV 9718 B	00040	May 7, 2025	May 6, 2026
5	Bilog Antenna	Schwarzbeck	VULB9162	00498	May 15, 2025	May 14, 2026
6	Horn Antenna	Schwarzbeck	BBHA9120D	02623	May 15, 2025	May 14, 2026
7	Horn Antenna	A.H.SYSTEMS	SAS574	588	Oct. 21, 2024	Oct. 20, 2025
8	Amplifier	AEROFLEX	100KHz-40GHz	097	Oct. 21, 2024	Oct. 20, 2025
9	Spectrum Analyzer	R&S	FSV40	101413	Oct. 21, 2024	Oct. 20, 2025
10	Spectrum Analyzer	KEYSIGHT	N9020A	MY53420208	May 7, 2025	May 6, 2026
11	WIDBAND RADIO COMMUNICATION TESTER	R&S	CMW500	109863	May 7, 2025	May 6, 2026
12	Single Generator	Agilent	N5182A	MY48180575	May 7, 2025	May 6, 2026
13	MWRF Power Meter Test system	MW	MW100-RFCB	/	May 7, 2025	May 6, 2026
14	CABLE	EMToni	DA800-NM-NM-11000MM	/	May 6, 2025	May 5, 2026

Conduction Test equipment

Equipment	Manufacturer	Model	Serial No.	Last Cal.	Next Cal.
Receiver	R&S	ESCI	100874	May 6, 2025	May 5, 2026
LISN	R&S	ENV216	102794	May 6, 2025	May 5, 2026
ISN CAT 6	Schwarzbeck	NTFM 8158	00318	May 7, 2025	May 6, 2026
ISN CAT 5	Schwarzbeck	CAT5 8158	00343	May 7, 2025	May 6, 2026
Capacitive Voltage Probe	Schwarzbeck	CVP 9222 C	00101	May 8, 2025	May 7, 2026
Current Transformer Clamp	Schwarzbeck	SW 9605	SW9605 #209	May 8, 2025	May 7, 2026
CABLE	EMToni	G223-NM-BNCM -2000MM	/	May 7, 2025	May 6, 2026

Conducted Test equipment

Item	Equipment	Manufacturer	Model	Serial No.	Last Cal.	Next Cal.
1	Spectrum Analyzer	R&S	FSV40	101413	Oct. 21, 2024	Oct. 20, 2025
2	Spectrum Analyzer	KEYSIGHT	N9020A	MY53420208	May 7, 2025	May 6, 2026
3	Power Sensor	MWRFtest	MW100-RFCB	/	May 7, 2025	May 6, 2026

Testing software

Project	Software name	Edition
RF Conducted	MTS 8310	2.0.0.0
Conducted Emission	EZ-EMC	EMC-CON 3A1.1+
Radiated Emission	EZ-EMC	FA-03A2 RE+

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10:2013
Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

4.1.1 POWER LINE CONDUCTED EMISSION Limits

FREQUENCY (MHz)	Limit (dBuV)		Standard
	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

(1) *Decreases with the logarithm of the frequency.

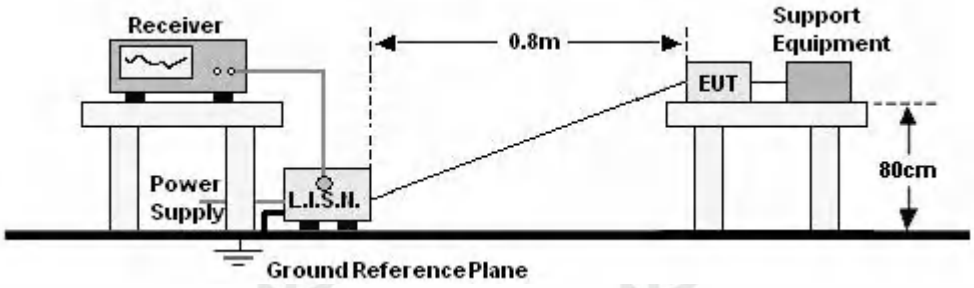
4.1.2 TEST PROCEDURE

a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
d. LISN at least 80 cm from nearest part of EUT chassis.
e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 TEST SETUP



4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

4.1.6 TEST RESULT

The Product is powered by the DC only, the test item is not applicable.

4.2 RADIATED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.209
Test Method:	ANSI C63.10:2013
Test Frequency Range:	9kHz to 25GHz
Test site:	Measurement Distance: 3m
Receiver setup:	

Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average

4.2.1 RADIATED EMISSION LIMITS

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
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

LIMITS OF RADIATED EMISSION MEASUREMENT

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C.

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

4.2.2 TEST PROCEDURE

Below 1GHz test procedure as below:

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoiccamber. 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 avariable-height antenna tower.

c. The antenna height 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1meter) 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 Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dBmargin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 meter to 1.5 meter(Above 18GHz the distance is 1 meter and table is 1.5 meter).
h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel

Note:

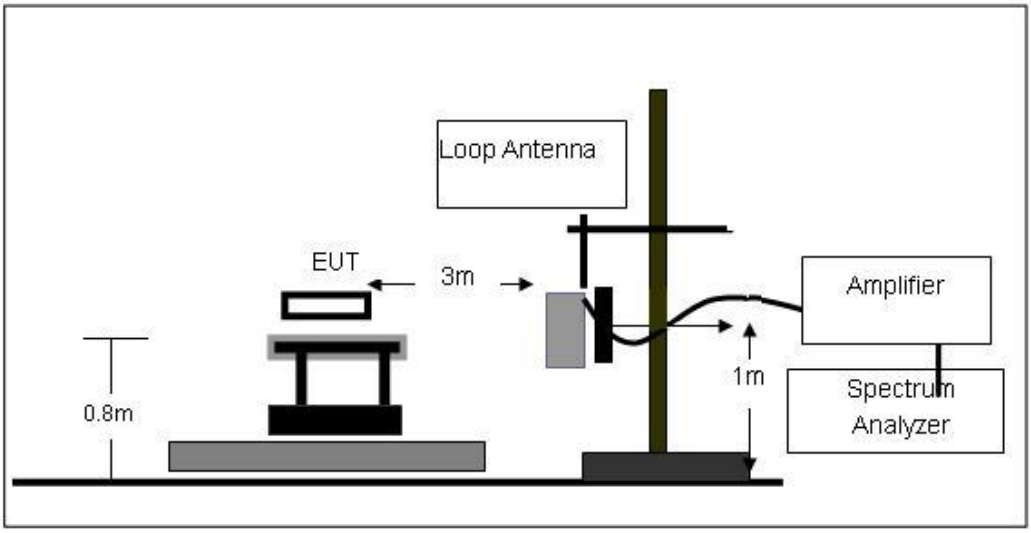
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

4.2.3 DEVIATION FROM TEST STANDARD

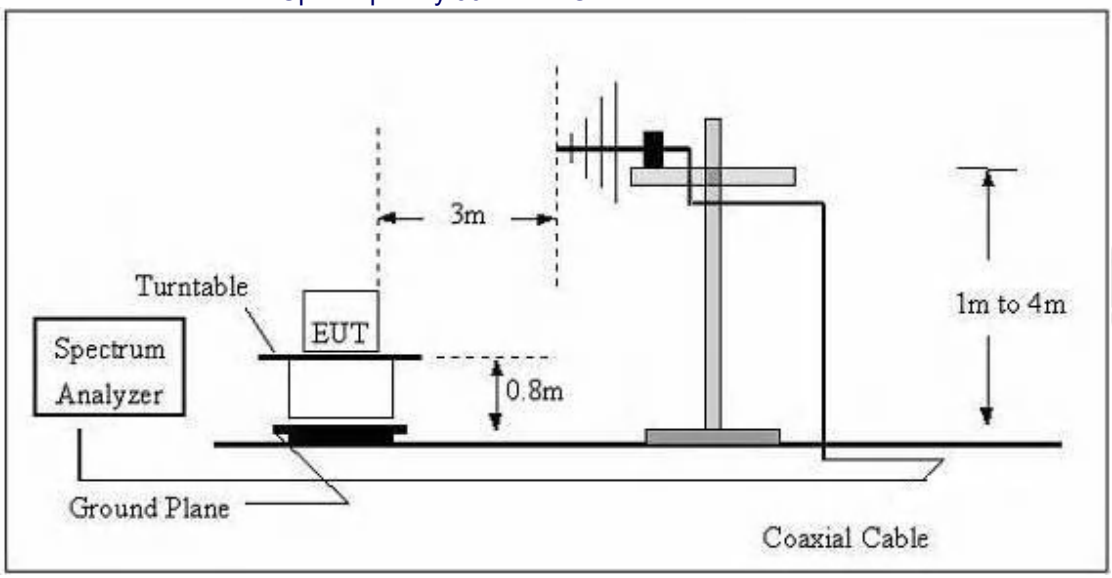
No deviation

4.2.4 TEST SETUP

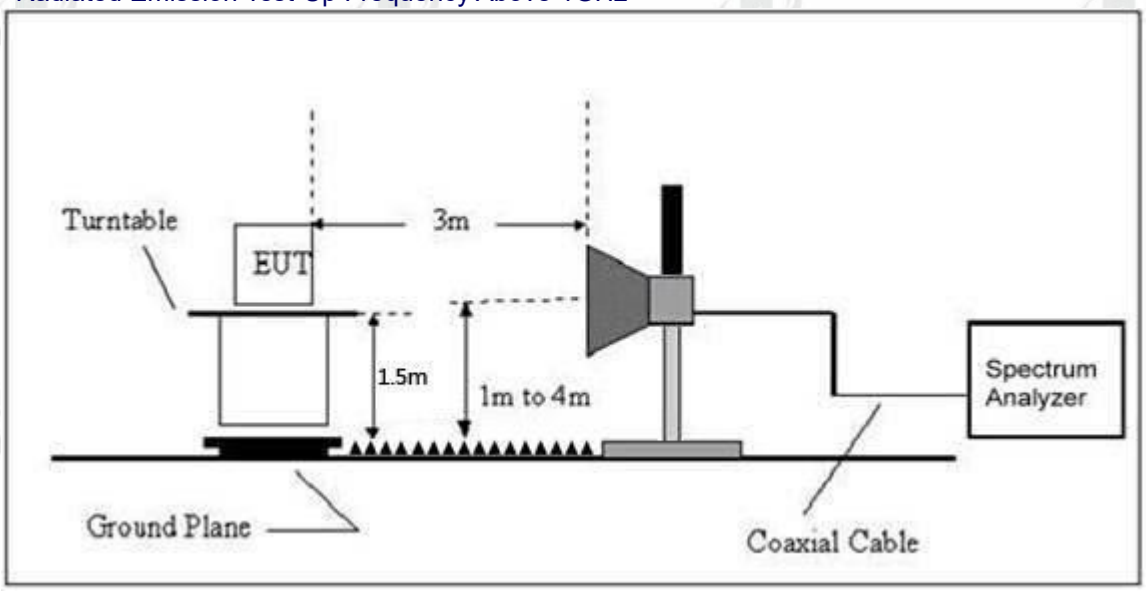
（A）Radiated Emission Test-Up Frequency Below 30MHz



（B）Radiated Emission Test-Up Frequency 30MHz~1GHz



（C）Radiated Emission Test-Up Frequency Above 1GHz



4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

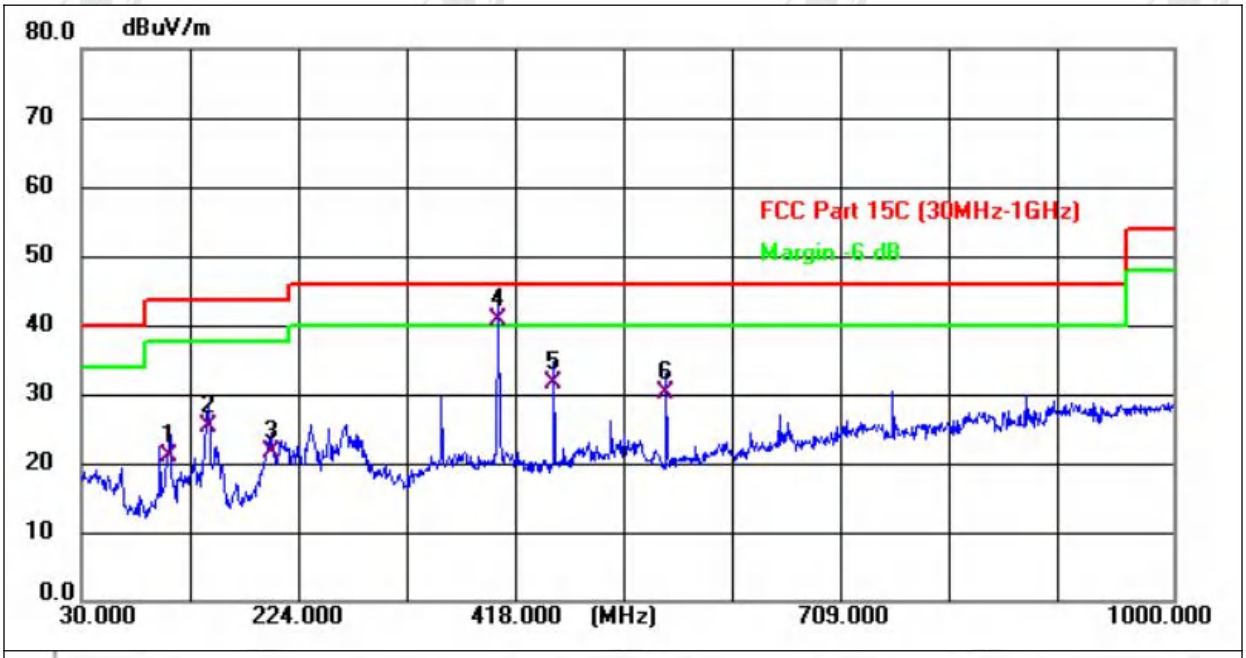
4.2.6 TEST RESULTS

Between 9KHz – 30MHz

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.

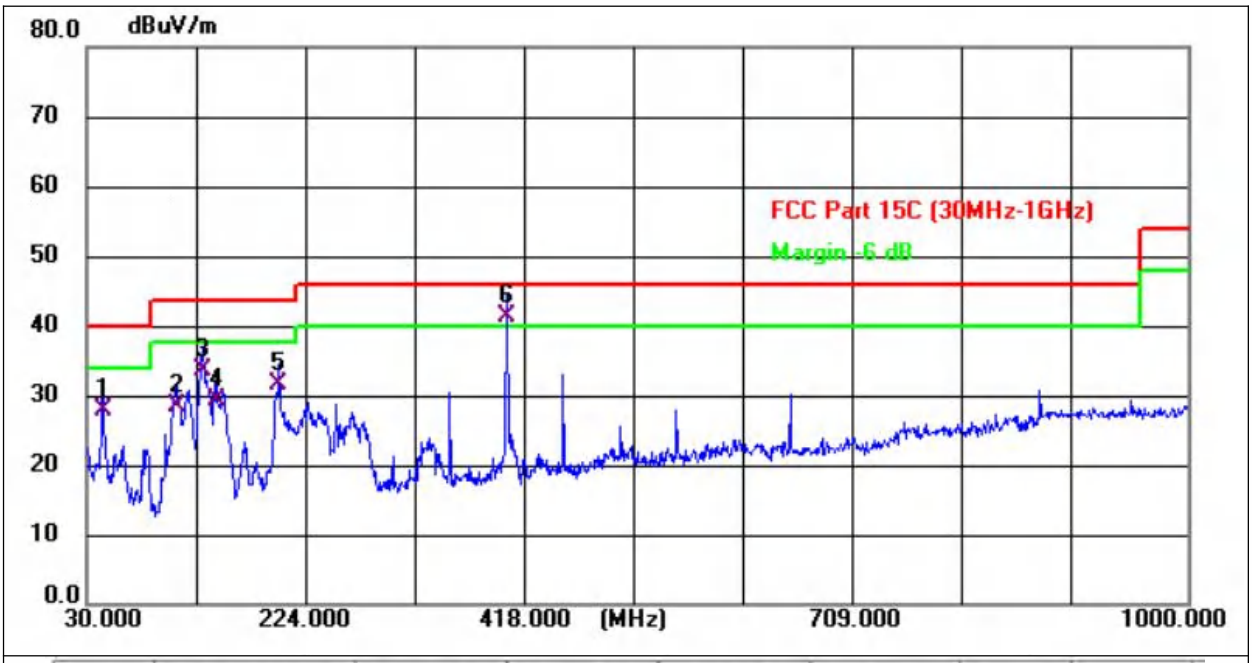
Between 30MHz – 1GHz

Temperature :	25.1℃	Relative Humidity :	50%
Pressure :	101kPa	Polarization :	Horizontal
Test Voltage :	DC 12 V		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	108.570	33.03	-11.96	21.07	43.50	-22.43	QP
2	142.520	39.23	-13.85	25.38	43.50	-18.12	QP
3	199.750	32.73	-11.17	21.56	43.50	-21.94	QP
4 *	400.540	46.54	-5.94	40.60	46.00	-5.40	QP
5	450.010	36.63	-5.05	31.58	46.00	-14.42	QP
6	549.920	33.27	-3.18	30.09	46.00	-15.91	QP

Temperature :	25.1℃	Relative Humidity :	50%
Pressure :	101kPa	Polarization :	Vertical
Test Voltage :	DC 12 V		

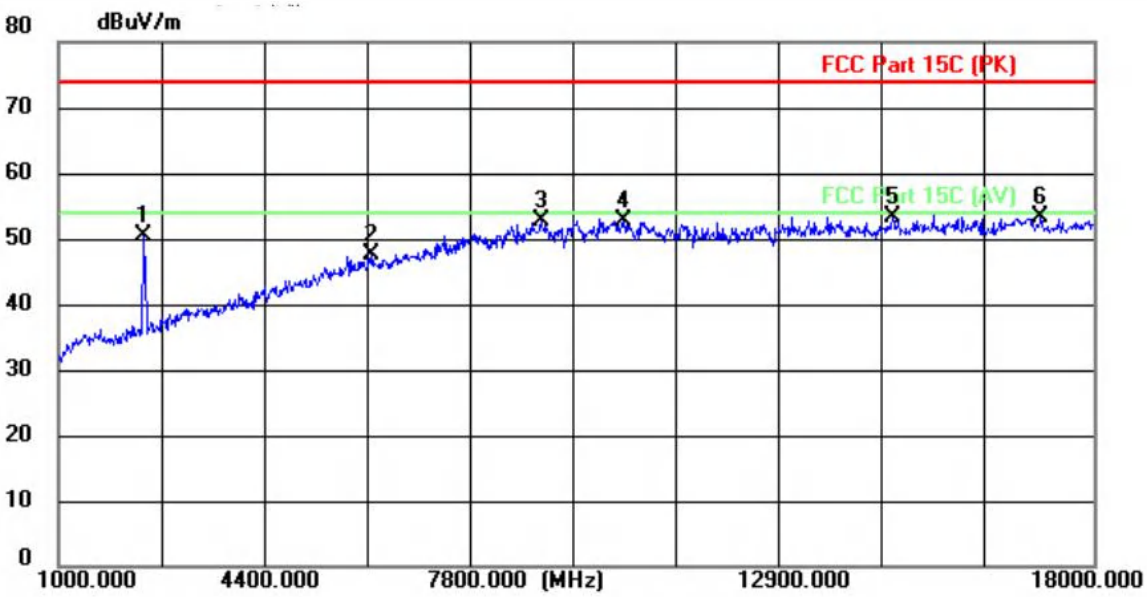


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	44.550	36.66	-8.91	27.75	40.00	-12.25	QP
2	109.540	40.36	-12.04	28.32	43.50	-15.18	QP
3	131.850	47.05	-13.40	33.65	43.50	-9.85	QP
4	144.460	43.15	-13.92	29.23	43.50	-14.27	QP
5	199.750	42.70	-11.17	31.53	43.50	-11.97	QP
6 *	399.570	47.29	-5.96	41.33	46.00	-4.67	QP

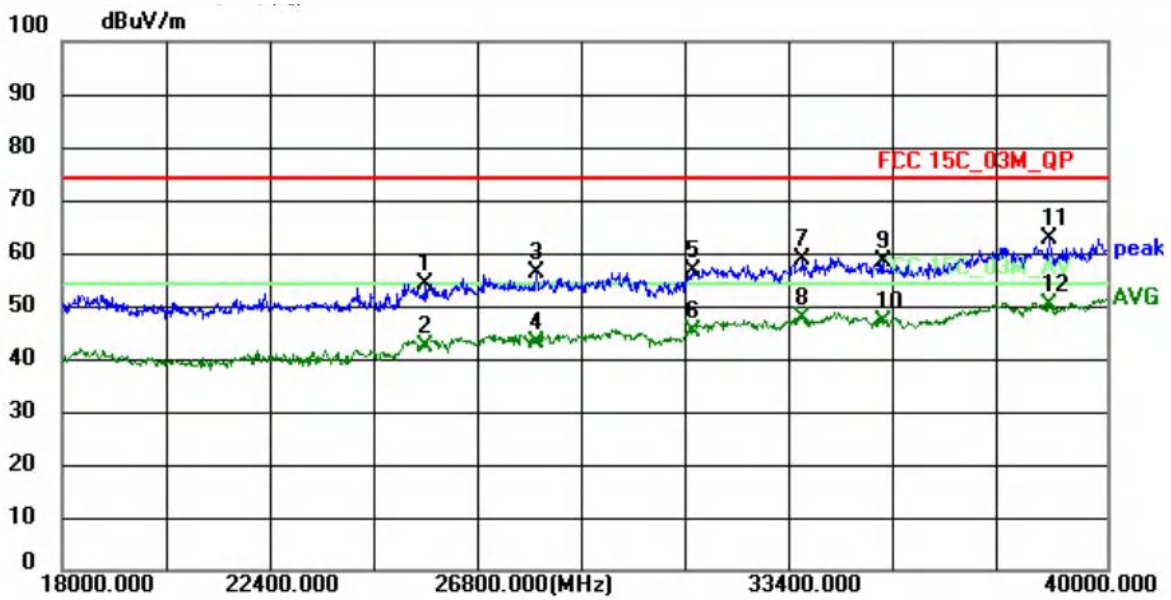
Remarks:
1.Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2.The emission levels of other frequencies are very lower than the limit and not show in test report.
3.The test data shows only the worst case 802.11b mode (Low Channel:2412MHz).

1GHz to 40GHz:

Temperature:	25.6℃	Relative Humidity:	47%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 12V	Test mode:	802.11b 2412 MHz

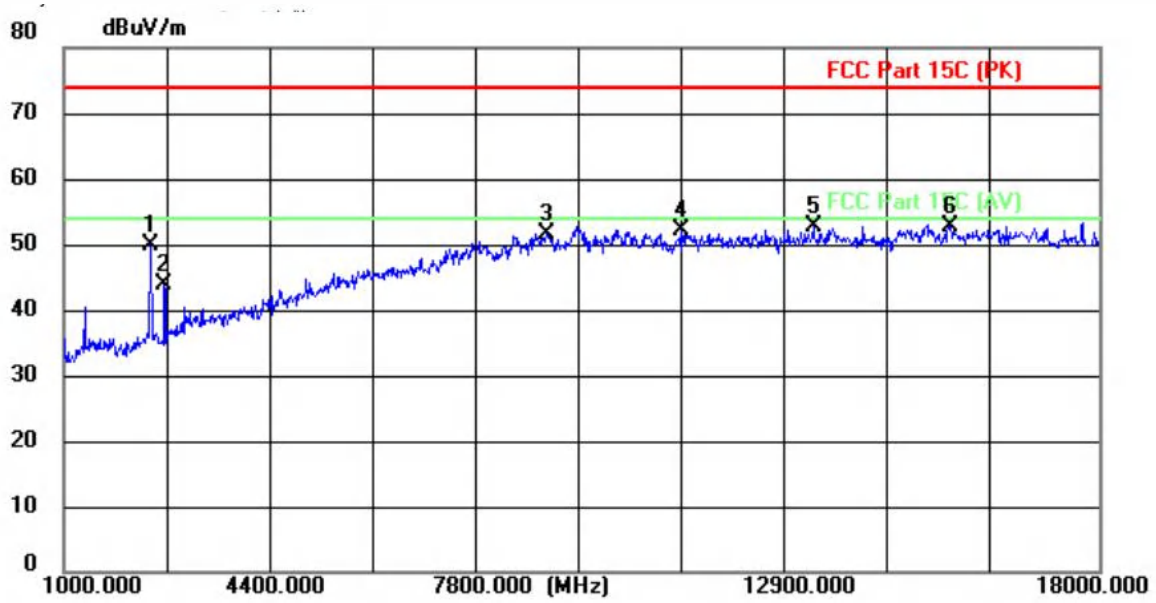


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2394.0000	65.91	-15.58	50.33	74.00	-23.67	peak
2	6134.0000	51.26	-3.74	47.52	74.00	-26.48	peak
3	8922.0000	51.09	1.51	52.60	74.00	-21.40	peak
4	10282.0000	50.30	2.52	52.82	74.00	-21.18	peak
5 *	14702.0000	44.84	8.41	53.25	74.00	-20.75	peak
6	17133.0000	42.16	11.04	53.20	74.00	-20.80	peak

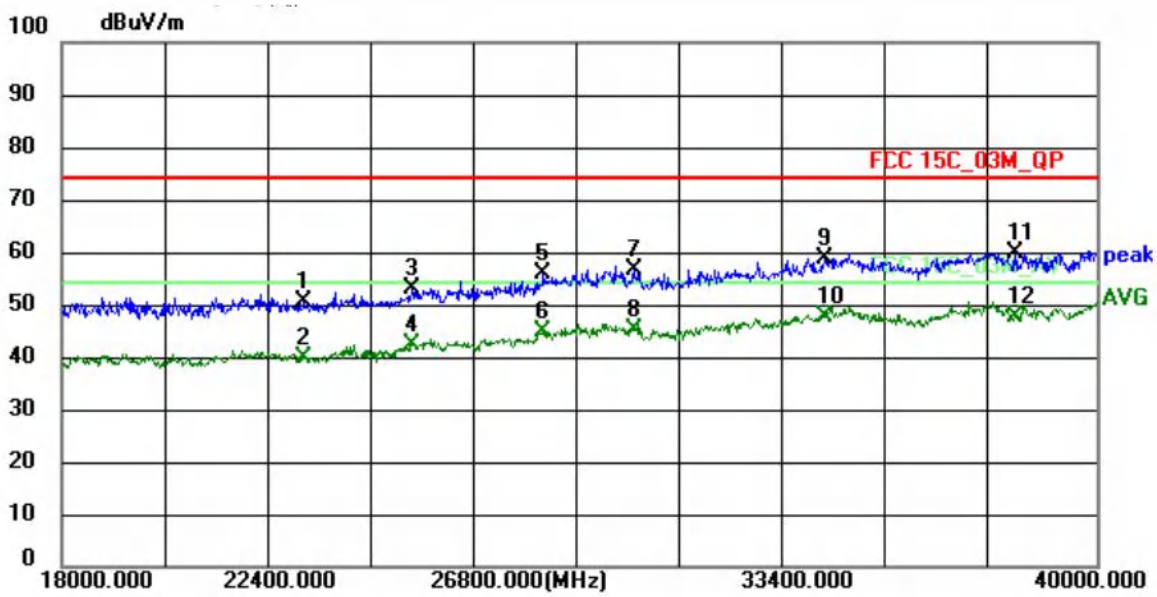


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	25656.0000	48.32	5.91	54.23	74.00	-19.77	peak
2	25656.0000	36.52	5.91	42.43	54.00	-11.57	AVG
3	27988.0000	48.76	7.60	56.36	74.00	-17.64	peak
4	27988.0000	35.47	7.60	43.07	54.00	-10.93	AVG
5	31266.0000	47.49	9.20	56.69	74.00	-17.31	peak
6	31266.0000	35.96	9.20	45.16	54.00	-8.84	AVG
7	33598.0000	49.24	9.36	58.60	74.00	-15.40	peak
8	33598.0000	38.41	9.36	47.77	54.00	-6.23	AVG
9	35292.0000	48.09	10.20	58.29	74.00	-15.71	peak
10	35292.0000	36.94	10.20	47.14	54.00	-6.86	AVG
11	38790.0000	53.67	9.06	62.73	74.00	-11.27	peak
12 *	38790.0000	41.18	9.06	50.24	54.00	-3.76	AVG

Temperature:	25.6℃	Relative Humidity:	47%
Pressure:	101 kPa	Polarization:	Vertical
Test Voltage:	DC 12V	Test mode:	802.11b 2412 MHz

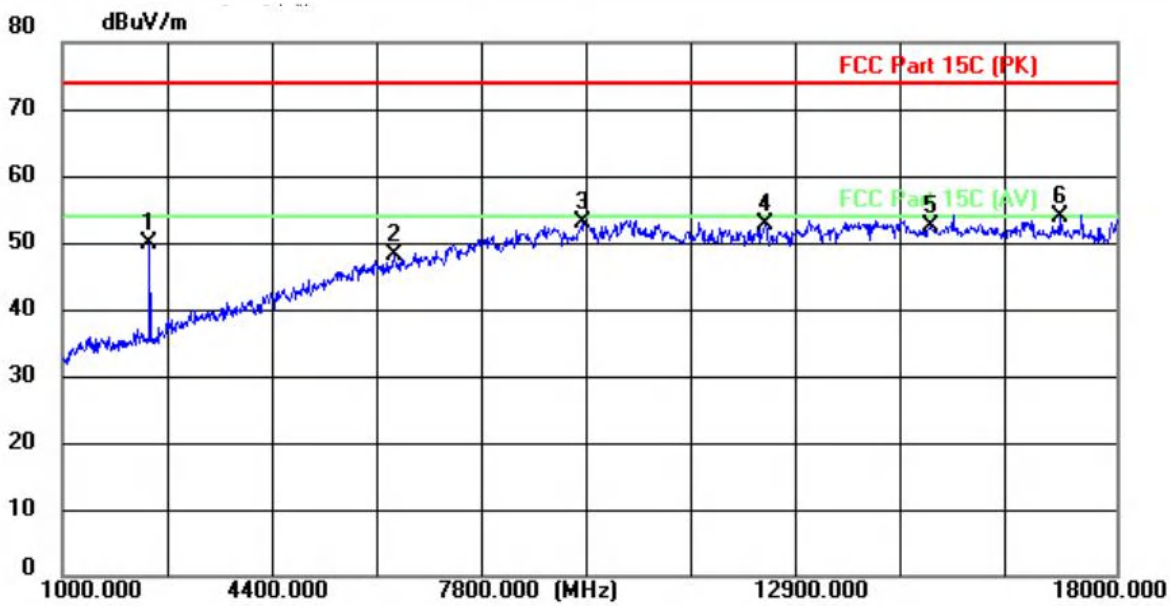


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2428.0000	65.18	-15.46	49.72	74.00	-24.28	peak
2	2649.0000	58.20	-14.38	43.82	74.00	-30.18	peak
3	8922.0000	50.20	1.51	51.71	74.00	-22.29	peak
4	11149.0000	48.58	3.50	52.08	74.00	-21.92	peak
5 *	13308.0000	46.35	6.38	52.73	74.00	-21.27	peak
6	15552.0000	43.27	9.41	52.68	74.00	-21.32	peak

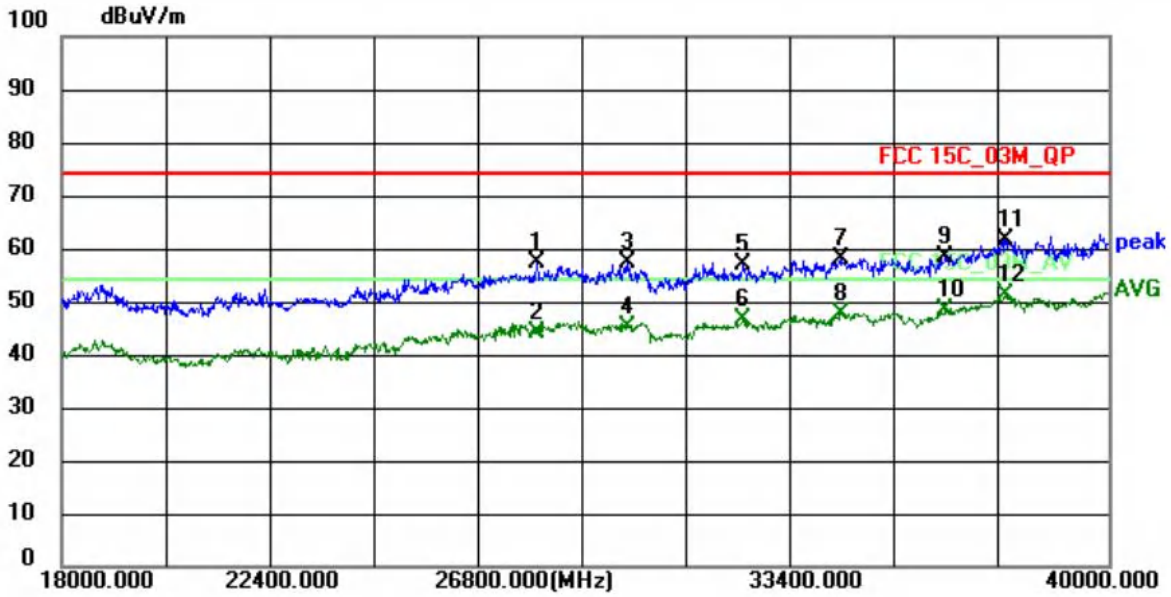


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	23148.0000	46.88	3.79	50.67	74.00	-23.33	peak
2	23148.0000	36.14	3.79	39.93	54.00	-14.07	AVG
3	25458.0000	47.07	5.81	52.88	74.00	-21.12	peak
4	25458.0000	36.60	5.81	42.41	54.00	-11.59	AVG
5	28230.0000	47.91	7.97	55.88	74.00	-18.12	peak
6	28230.0000	36.78	7.97	44.75	54.00	-9.25	AVG
7	30166.0000	47.56	9.05	56.61	74.00	-17.39	peak
8	30166.0000	36.28	9.05	45.33	54.00	-8.67	AVG
9	34214.0000	49.19	9.67	58.86	74.00	-15.14	peak
10 *	34214.0000	38.05	9.67	47.72	54.00	-6.28	AVG
11	38262.0000	50.45	9.44	59.89	74.00	-14.11	peak
12	38262.0000	38.17	9.44	47.61	54.00	-6.39	AVG

Temperature:	25.6℃	Relative Humidity:	47%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 12V	Test mode:	802.11b 2437 MHz

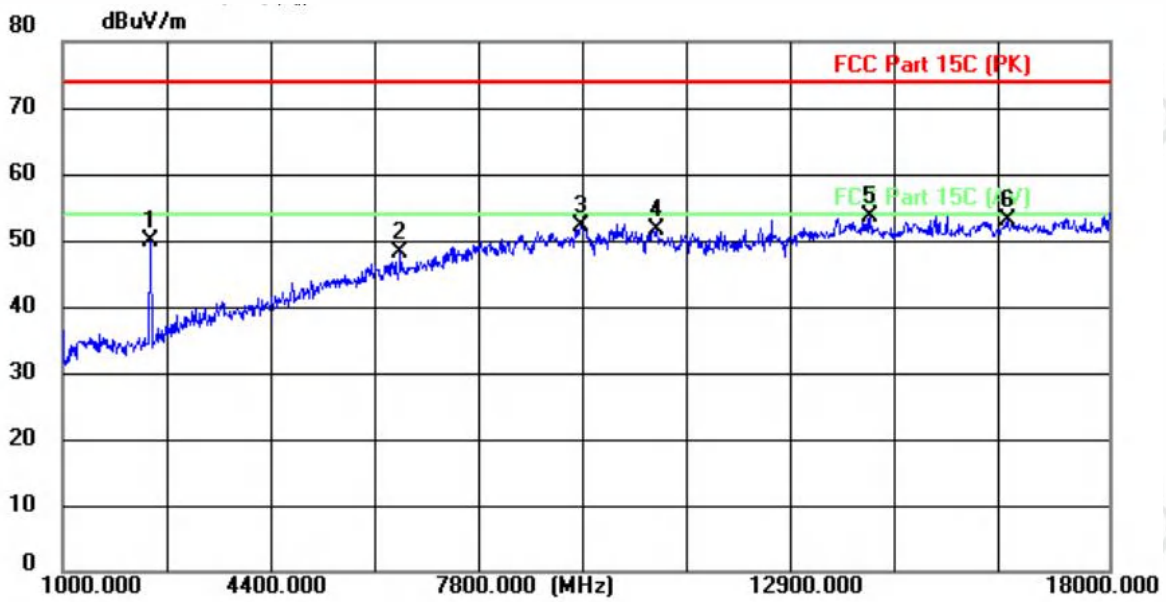


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2411.0000	65.36	-15.52	49.84	74.00	-24.16	peak
2	6355.0000	51.38	-3.27	48.11	74.00	-25.89	peak
3	9398.0000	51.27	1.85	53.12	74.00	-20.88	peak
4	12339.0000	47.75	4.97	52.72	74.00	-21.28	peak
5	15008.0000	43.53	8.86	52.39	74.00	-21.61	peak
6 *	17082.0000	42.84	10.97	53.81	74.00	-20.19	peak

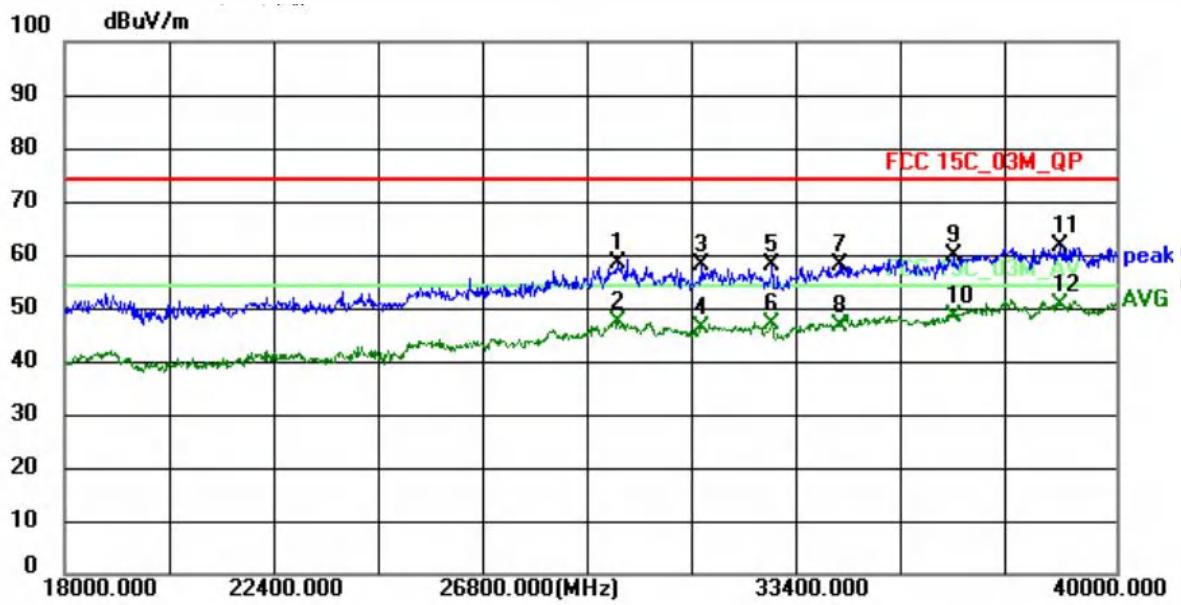


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	27988.0000	49.76	7.60	57.36	74.00	-16.64	peak
2	27988.0000	36.47	7.60	44.07	54.00	-9.93	AVG
3	29902.0000	48.06	9.10	57.16	74.00	-16.84	peak
4	29902.0000	36.19	9.10	45.29	54.00	-8.71	AVG
5	32322.0000	47.64	9.37	57.01	74.00	-16.99	peak
6	32322.0000	37.07	9.37	46.44	54.00	-7.56	AVG
7	34368.0000	48.11	9.76	57.87	74.00	-16.13	peak
8	34368.0000	37.98	9.76	47.74	54.00	-6.26	AVG
9	36568.0000	48.83	9.74	58.57	74.00	-15.43	peak
10	36568.0000	38.53	9.74	48.27	54.00	-5.73	AVG
11	37844.0000	51.68	9.89	61.57	74.00	-12.43	peak
12 *	37844.0000	41.27	9.89	51.16	54.00	-2.84	AVG

Temperature:	25.6℃	Relative Humidity:	47%
Pressure:	101 kPa	Polarization:	Vertical
Test Voltage:	DC 12V	Test mode:	802.11b 2437 MHz

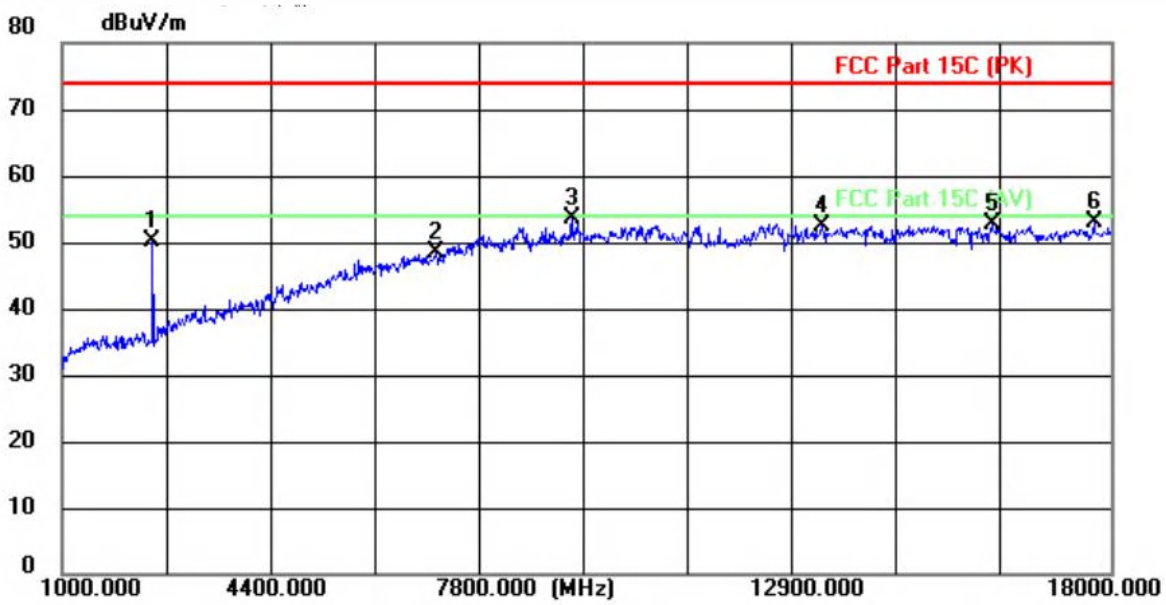


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2428.0000	65.46	-15.46	50.00	74.00	-24.00	peak
2	6491.0000	51.15	-2.98	48.17	74.00	-25.83	peak
3	9432.0000	50.35	1.87	52.22	74.00	-21.78	peak
4	10656.0000	48.54	2.94	51.48	74.00	-22.52	peak
5 *	14124.0000	46.01	7.58	53.59	74.00	-20.41	peak
6	16351.0000	42.84	10.23	53.07	74.00	-20.93	peak

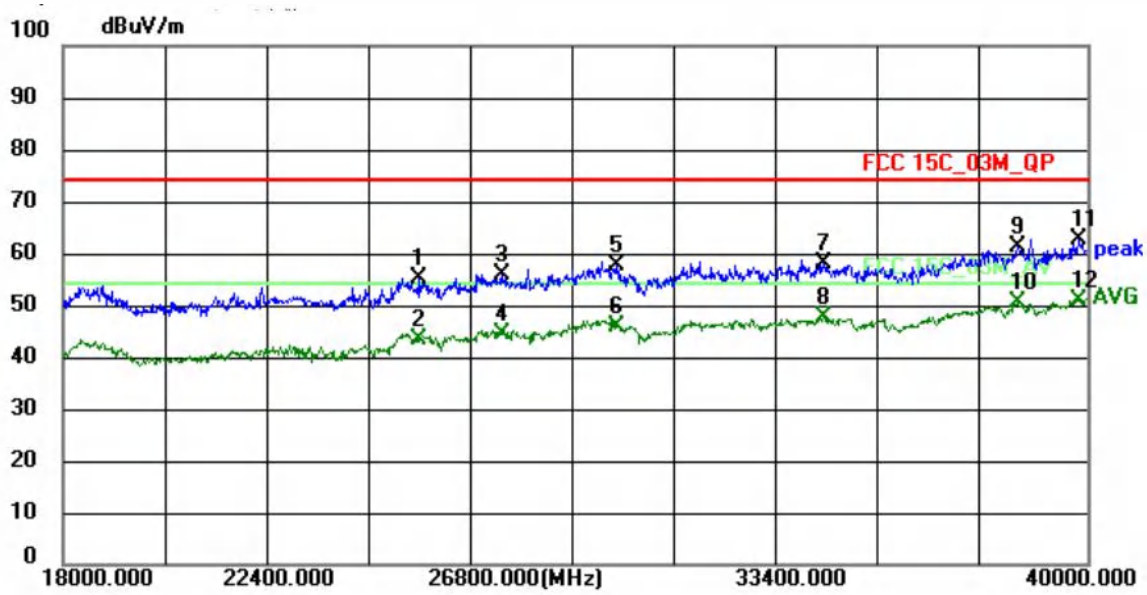


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	29594.0000	49.10	9.18	58.28	74.00	-15.72	peak
2	29594.0000	38.30	9.18	47.48	54.00	-6.52	AVG
3	31332.0000	48.82	9.23	58.05	74.00	-15.95	peak
4	31332.0000	36.92	9.23	46.15	54.00	-7.85	AVG
5	32806.0000	48.88	9.25	58.13	74.00	-15.87	peak
6	32806.0000	37.58	9.25	46.83	54.00	-7.17	AVG
7	34214.0000	48.19	9.67	57.86	74.00	-16.14	peak
8	34214.0000	37.05	9.67	46.72	54.00	-7.28	AVG
9	36612.0000	50.10	9.74	59.84	74.00	-14.16	peak
10	36612.0000	38.76	9.74	48.50	54.00	-5.50	AVG
11	38812.0000	52.56	9.06	61.62	74.00	-12.38	peak
12 *	38812.0000	41.54	9.06	50.60	54.00	-3.40	AVG

Temperature:	25.6℃	Relative Humidity:	47%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 12V	Test mode:	802.11b 2462 MHz

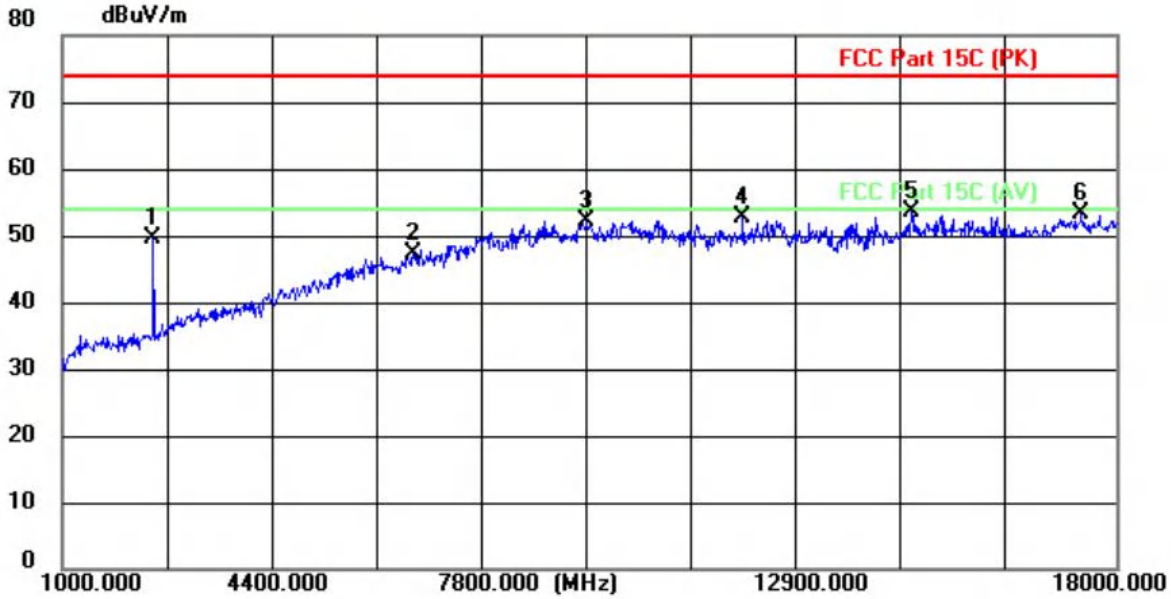


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2462.0000	65.51	-15.32	50.19	74.00	-23.81	peak
2	7069.0000	50.16	-1.76	48.40	74.00	-25.60	peak
3 *	9262.0000	51.91	1.77	53.68	74.00	-20.32	peak
4	13325.0000	46.10	6.41	52.51	74.00	-21.49	peak
5	16079.0000	42.69	9.96	52.65	74.00	-21.35	peak
6	17728.0000	41.26	11.64	52.90	74.00	-21.10	peak

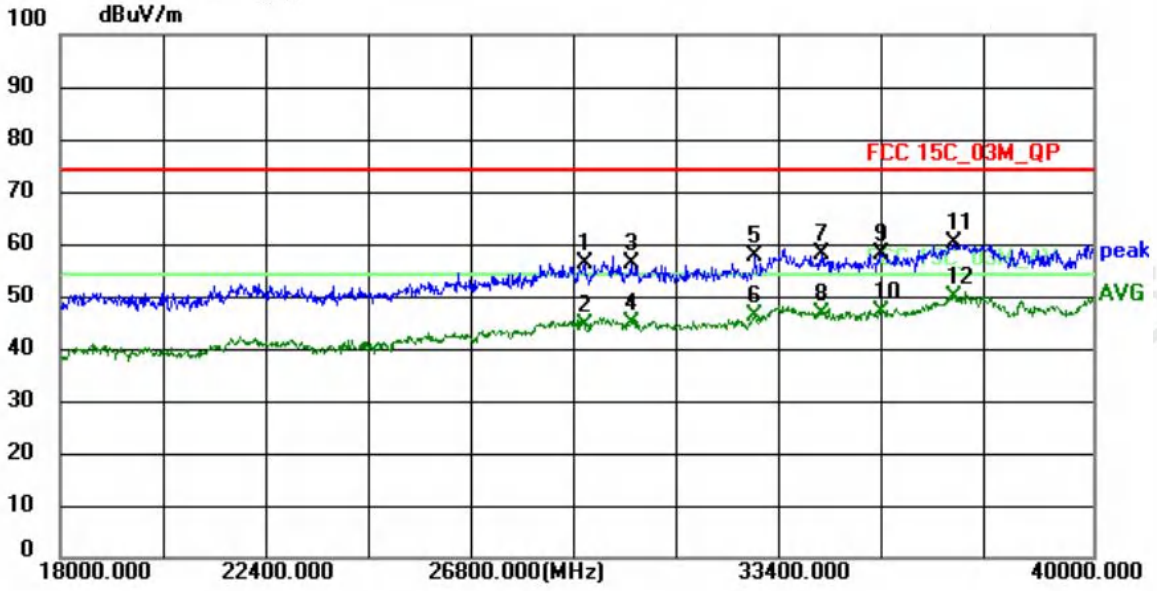


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	25656.0000	49.32	5.91	55.23	74.00	-18.77	peak
2	25656.0000	37.52	5.91	43.43	54.00	-10.57	AVG
3	27416.0000	48.89	7.10	55.99	74.00	-18.01	peak
4	27416.0000	37.20	7.10	44.30	54.00	-9.70	AVG
5	29902.0000	48.56	9.10	57.66	74.00	-16.34	peak
6	29902.0000	36.69	9.10	45.79	54.00	-8.21	AVG
7	34324.0000	48.43	9.73	58.16	74.00	-15.84	peak
8	34324.0000	37.82	9.73	47.55	54.00	-6.45	AVG
9	38504.0000	52.14	9.02	61.16	74.00	-12.84	peak
10	38504.0000	41.46	9.02	50.48	54.00	-3.52	AVG
11	39802.0000	52.90	9.92	62.82	74.00	-11.18	peak
12 *	39802.0000	40.94	9.92	50.86	54.00	-3.14	AVG

Temperature:	25.6℃	Relative Humidity:	47%
Pressure:	101 kPa	Polarization:	Vertical
Test Voltage:	DC 12V	Test mode:	802.11b 2462 MHz

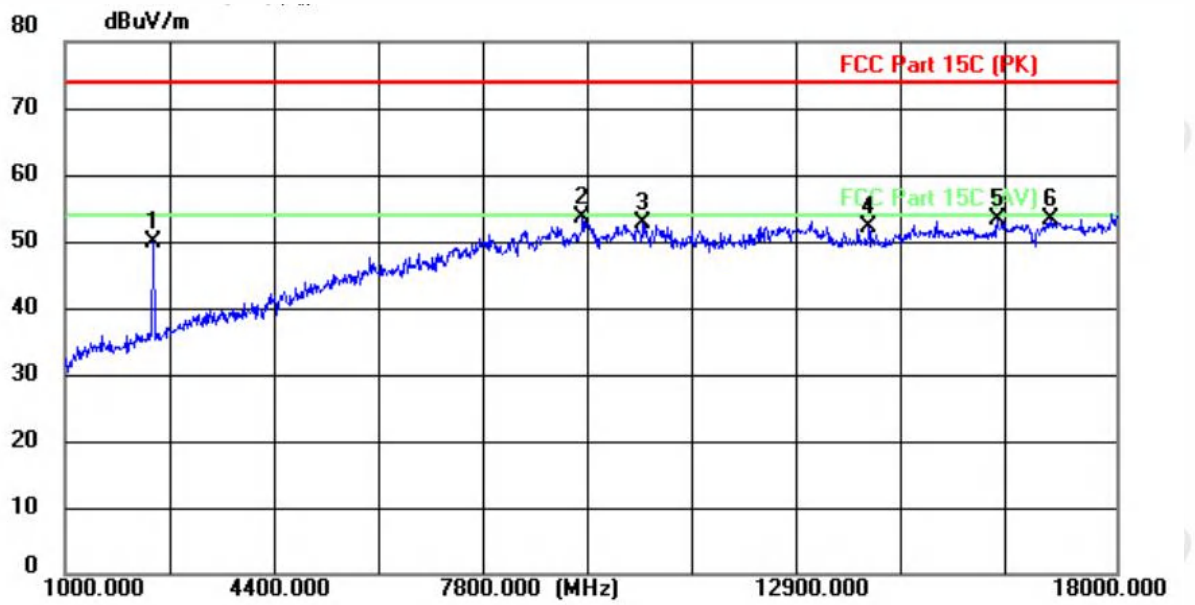


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2462.0000	64.91	-15.32	49.59	74.00	-24.41	peak
2	6661.0000	49.95	-2.62	47.33	74.00	-26.67	peak
3	9466.0000	50.19	1.88	52.07	74.00	-21.93	peak
4	11982.0000	48.18	4.45	52.63	74.00	-21.37	peak
5 *	14702.0000	45.10	8.41	53.51	74.00	-20.49	peak
6	17439.0000	41.98	11.35	53.33	74.00	-20.67	peak

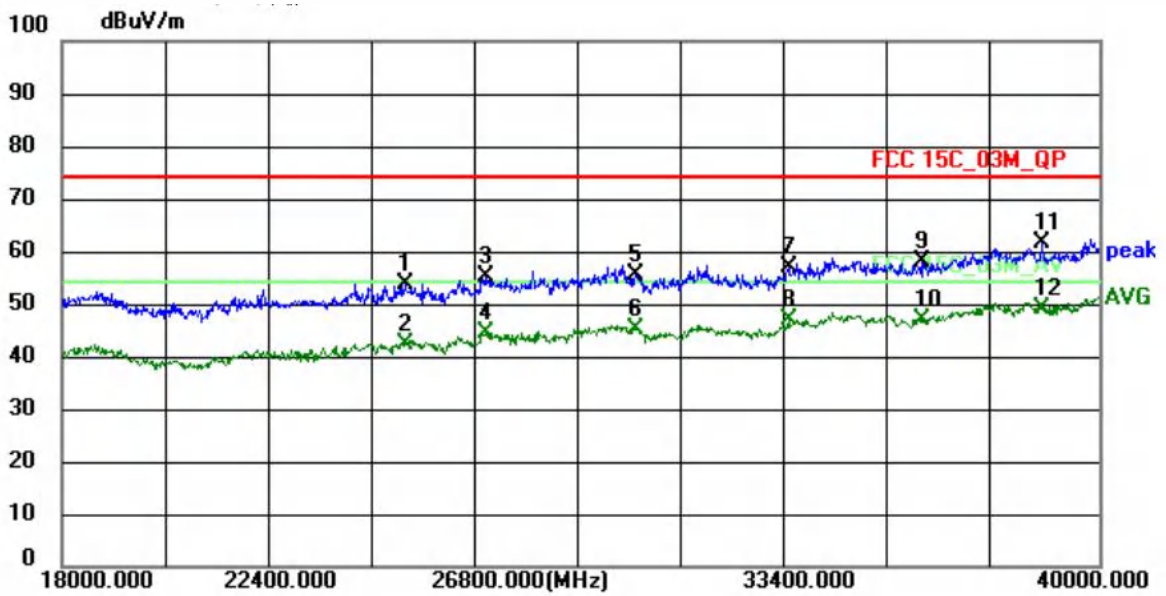


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	29176.0000	46.93	9.15	56.08	74.00	-17.92	peak
2	29176.0000	35.30	9.15	44.45	54.00	-9.55	AVG
3	30166.0000	47.06	9.05	56.11	74.00	-17.89	peak
4	30166.0000	35.78	9.05	44.83	54.00	-9.17	AVG
5	32806.0000	48.38	9.25	57.63	74.00	-16.37	peak
6	32806.0000	37.08	9.25	46.33	54.00	-7.67	AVG
7	34214.0000	48.19	9.67	57.86	74.00	-16.14	peak
8	34214.0000	37.05	9.67	46.72	54.00	-7.28	AVG
9	35512.0000	47.87	10.27	58.14	74.00	-15.86	peak
10	35512.0000	36.77	10.27	47.04	54.00	-6.96	AVG
11	37052.0000	50.48	9.74	60.22	74.00	-13.78	peak
12 *	37052.0000	40.10	9.74	49.84	54.00	-4.16	AVG

Temperature:	25.6℃	Relative Humidity:	47%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 12V	Test mode:	802.11g 2412MHz

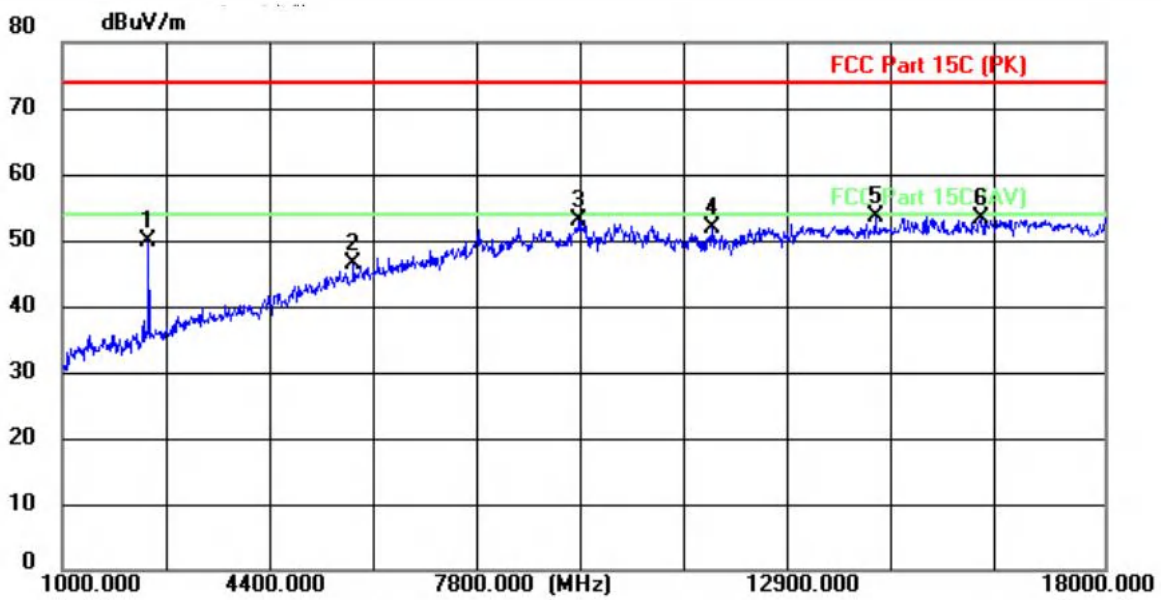


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2428.0000	65.46	-15.46	50.00	74.00	-24.00	peak
2 *	9364.0000	51.75	1.83	53.58	74.00	-20.42	peak
3	10350.0000	50.14	2.59	52.73	74.00	-21.27	peak
4	14005.0000	44.77	7.40	52.17	74.00	-21.83	peak
5	16079.0000	43.40	9.96	53.36	74.00	-20.64	peak
6	16929.0000	42.39	10.82	53.21	74.00	-20.79	peak

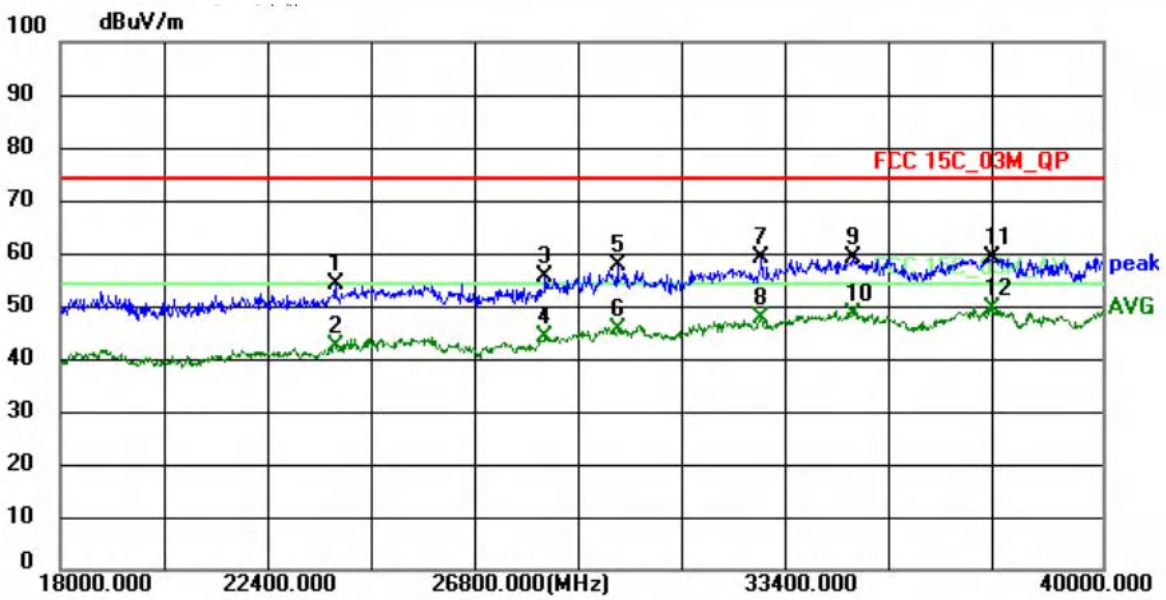


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	25282.0000	47.99	5.68	53.67	74.00	-20.33	peak
2	25282.0000	36.47	5.68	42.15	54.00	-11.85	AVG
3	26976.0000	48.46	6.84	55.30	74.00	-18.70	peak
4	26976.0000	37.79	6.84	44.63	54.00	-9.37	AVG
5	30188.0000	46.46	9.03	55.49	74.00	-18.51	peak
6	30188.0000	36.28	9.03	45.31	54.00	-8.69	AVG
7	33422.0000	47.63	9.29	56.92	74.00	-17.08	peak
8	33422.0000	37.55	9.29	46.84	54.00	-7.16	AVG
9	36260.0000	48.35	9.85	58.20	74.00	-15.80	peak
10	36260.0000	37.28	9.85	47.13	54.00	-6.87	AVG
11	38790.0000	52.67	9.06	61.73	74.00	-12.27	peak
12 *	38790.0000	40.18	9.06	49.24	54.00	-4.76	AVG

Temperature:	25.6℃	Relative Humidity:	47%
Pressure:	101 kPa	Polarization:	Vertical
Test Voltage:	DC 12V	Test mode:	802.11g 2412MHz

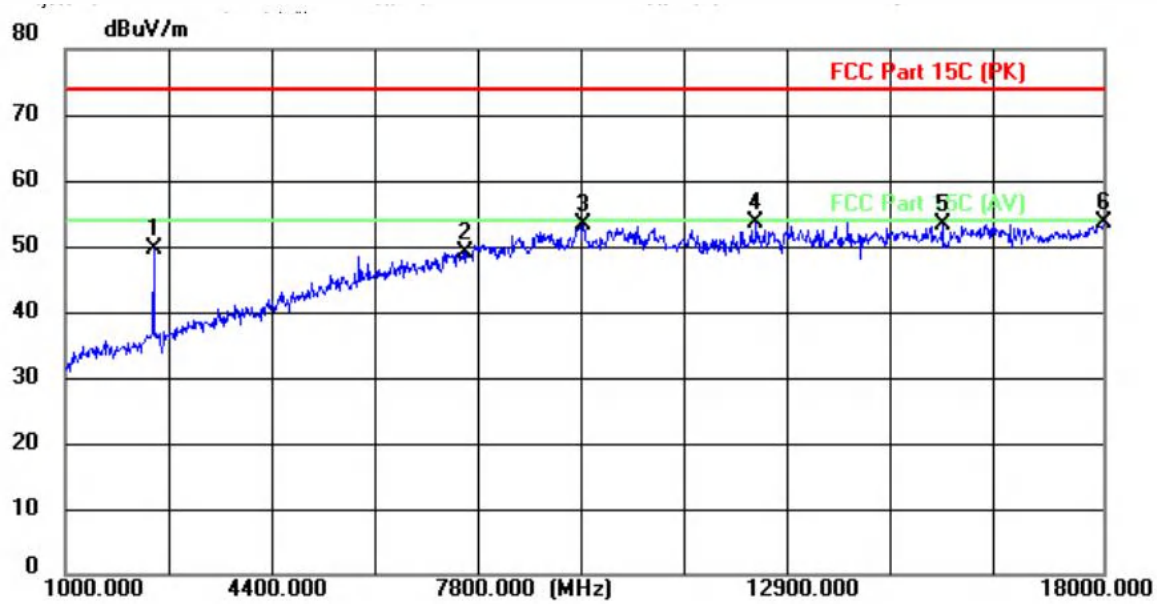


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2411.0000	65.46	-15.52	49.94	74.00	-24.06	peak
2	5743.0000	51.32	-5.00	46.32	74.00	-27.68	peak
3	9432.0000	51.26	1.87	53.13	74.00	-20.87	peak
4	11608.0000	47.85	4.03	51.88	74.00	-22.12	peak
5 *	14260.0000	45.82	7.76	53.58	74.00	-20.42	peak
6	15994.0000	43.48	9.86	53.34	74.00	-20.66	peak

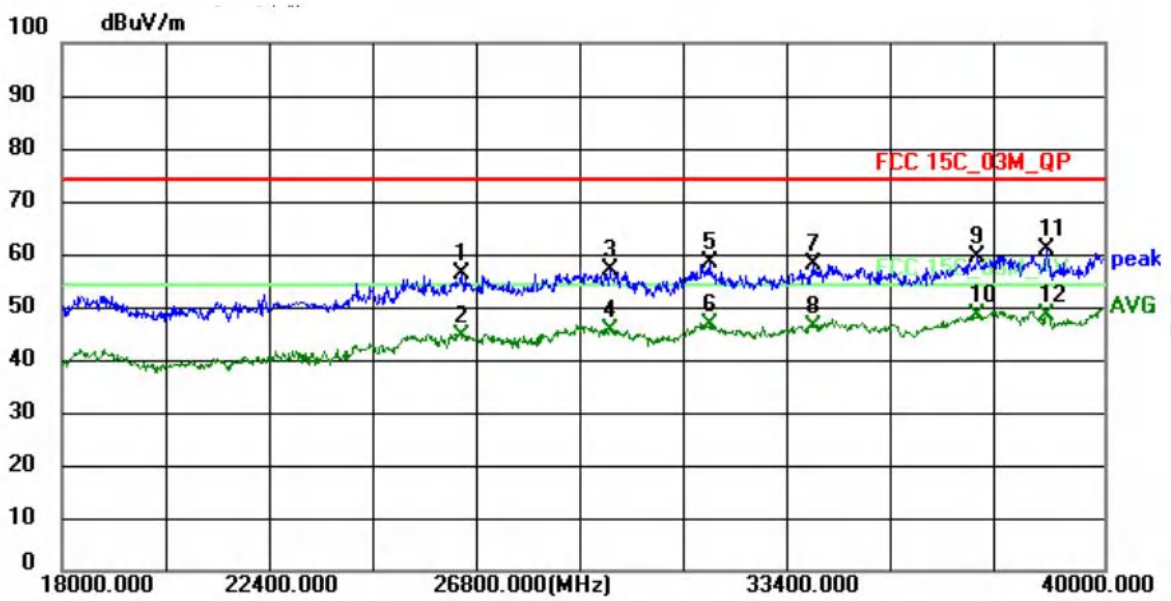


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	23808.0000	49.48	4.48	53.96	74.00	-20.04	peak
2	23808.0000	37.77	4.48	42.25	54.00	-11.75	AVG
3	28230.0000	47.41	7.97	55.38	74.00	-18.62	peak
4	28230.0000	36.28	7.97	44.25	54.00	-9.75	AVG
5	29770.0000	48.63	9.14	57.77	74.00	-16.23	peak
6	29770.0000	36.33	9.14	45.47	54.00	-8.53	AVG
7	32806.0000	49.88	9.25	59.13	74.00	-14.87	peak
8	32806.0000	38.58	9.25	47.83	54.00	-6.17	AVG
9	34720.0000	49.20	9.95	59.15	74.00	-14.85	peak
10	34720.0000	38.34	9.95	48.29	54.00	-5.71	AVG
11	37668.0000	49.23	9.86	59.09	74.00	-14.91	peak
12 *	37668.0000	39.53	9.86	49.39	54.00	-4.61	AVG

Temperature:	25.6℃	Relative Humidity:	47%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 12V	Test mode:	802.11g 2437MHz

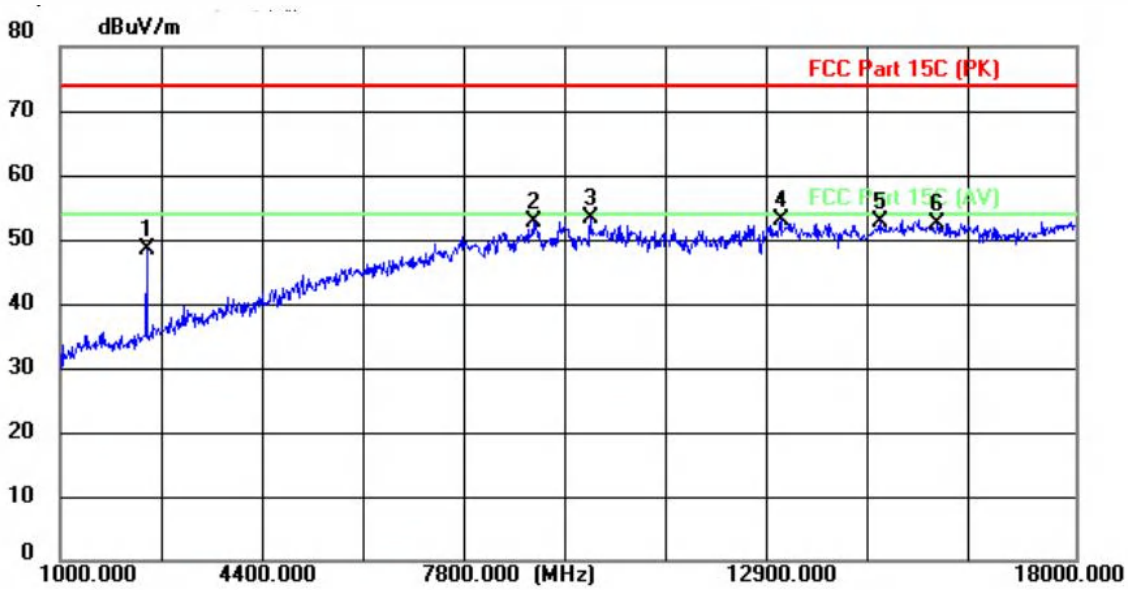


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2445.0000	65.04	-15.39	49.65	74.00	-24.35	peak
2	7562.0000	49.77	-0.64	49.13	74.00	-24.87	peak
3	9483.0000	51.32	1.90	53.22	74.00	-20.78	peak
4	12322.0000	48.57	4.94	53.51	74.00	-20.49	peak
5	15365.0000	44.08	9.22	53.30	74.00	-20.70	peak
6 *	18000.0000	41.69	11.92	53.61	74.00	-20.39	peak

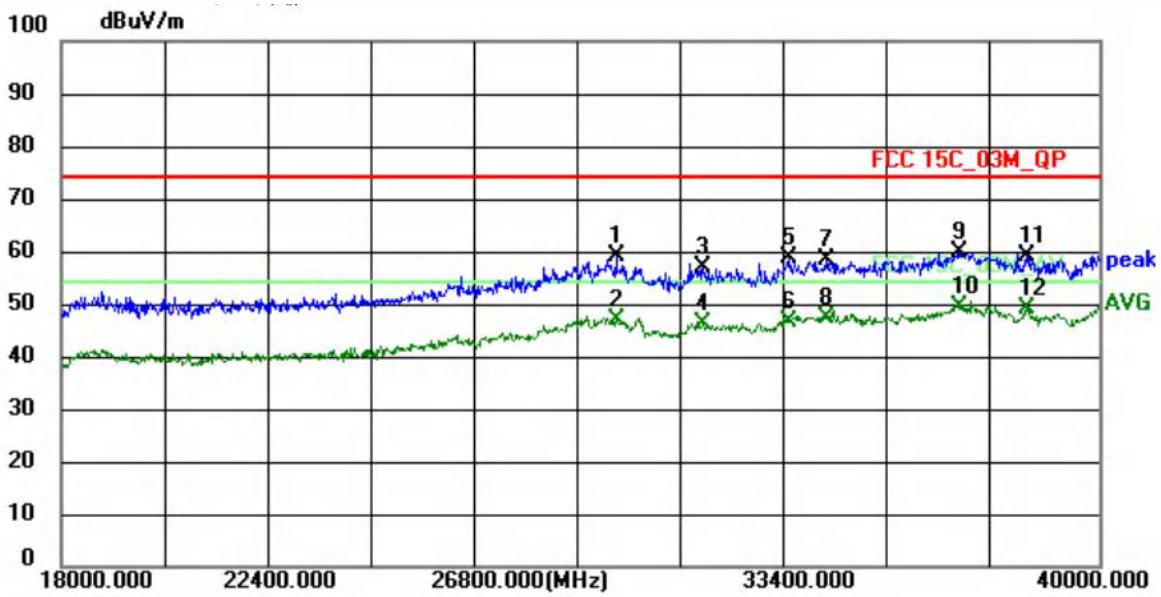


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	26426.0000	49.84	6.26	56.10	74.00	-17.90	peak
2	26426.0000	38.19	6.26	44.45	54.00	-9.55	AVG
3	29572.0000	47.63	9.19	56.82	74.00	-17.18	peak
4	29572.0000	36.41	9.19	45.60	54.00	-8.40	AVG
5	31662.0000	48.93	9.35	58.28	74.00	-15.72	peak
6	31662.0000	37.34	9.35	46.69	54.00	-7.31	AVG
7	33884.0000	48.66	9.49	58.15	74.00	-15.85	peak
8	33884.0000	36.81	9.49	46.30	54.00	-7.70	AVG
9	37338.0000	49.70	9.80	59.50	74.00	-14.50	peak
10 *	37338.0000	38.58	9.80	48.38	54.00	-5.62	AVG
11	38790.0000	51.67	9.06	60.73	74.00	-13.27	peak
12	38790.0000	39.18	9.06	48.24	54.00	-5.76	AVG

Temperature:	25.6℃	Relative Humidity:	47%
Pressure:	101 kPa	Polarization:	Vertical
Test Voltage:	DC 12V	Test mode:	802.11g 2437MHz

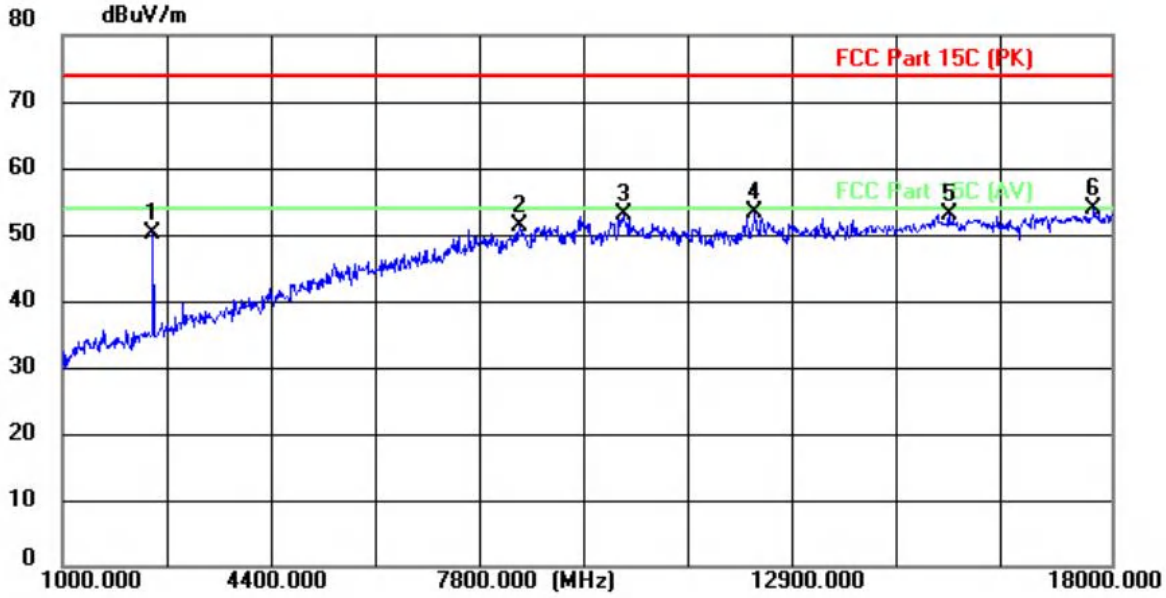


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2445.0000	63.81	-15.39	48.42	74.00	-25.58	peak
2	8922.0000	51.27	1.51	52.78	74.00	-21.22	peak
3 *	9874.0000	51.06	2.13	53.19	74.00	-20.81	peak
4	13070.0000	47.02	6.03	53.05	74.00	-20.95	peak
5	14719.0000	44.15	8.44	52.59	74.00	-21.41	peak
6	15688.0000	43.01	9.56	52.57	74.00	-21.43	peak

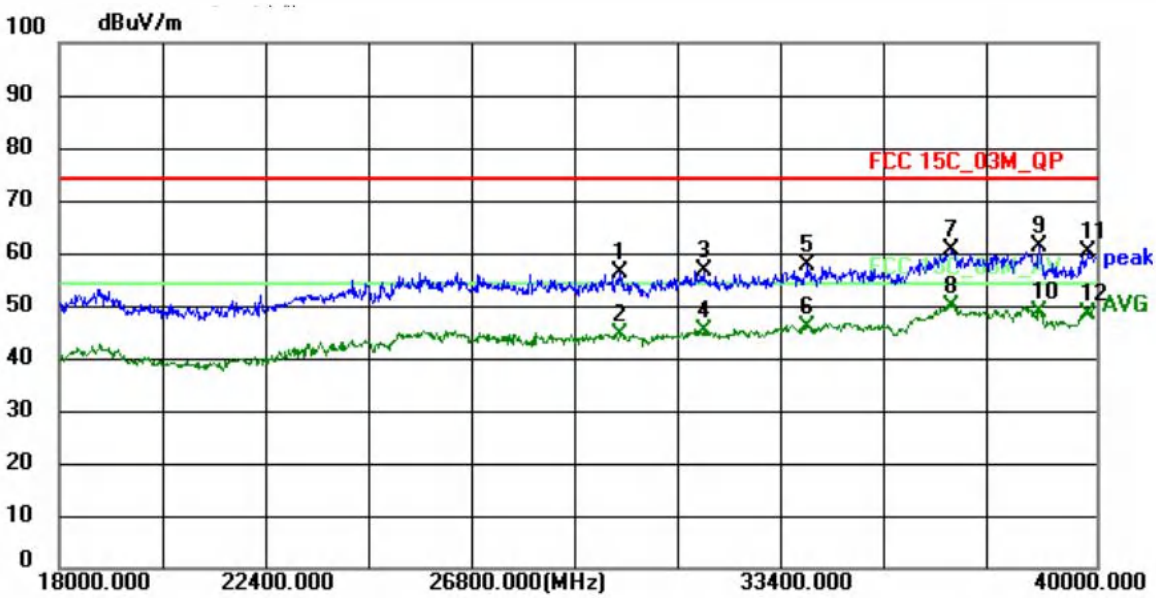


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	29770.0000	50.13	9.14	59.27	74.00	-14.73	peak
2	29770.0000	37.83	9.14	46.97	54.00	-7.03	AVG
3	31618.0000	47.49	9.35	56.84	74.00	-17.16	peak
4	31618.0000	36.78	9.35	46.13	54.00	-7.87	AVG
5	33444.0000	49.43	9.31	58.74	74.00	-15.26	peak
6	33444.0000	37.42	9.31	46.73	54.00	-7.27	AVG
7	34214.0000	48.69	9.67	58.36	74.00	-15.64	peak
8	34214.0000	37.55	9.67	47.22	54.00	-6.78	AVG
9	37052.0000	49.98	9.74	59.72	74.00	-14.28	peak
10 *	37052.0000	39.60	9.74	49.34	54.00	-4.66	AVG
11	38460.0000	50.07	9.08	59.15	74.00	-14.85	peak
12	38460.0000	40.16	9.08	49.24	54.00	-4.76	AVG

Temperature:	25.6℃	Relative Humidity:	47%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 12V	Test mode:	802.11g 2462MHz

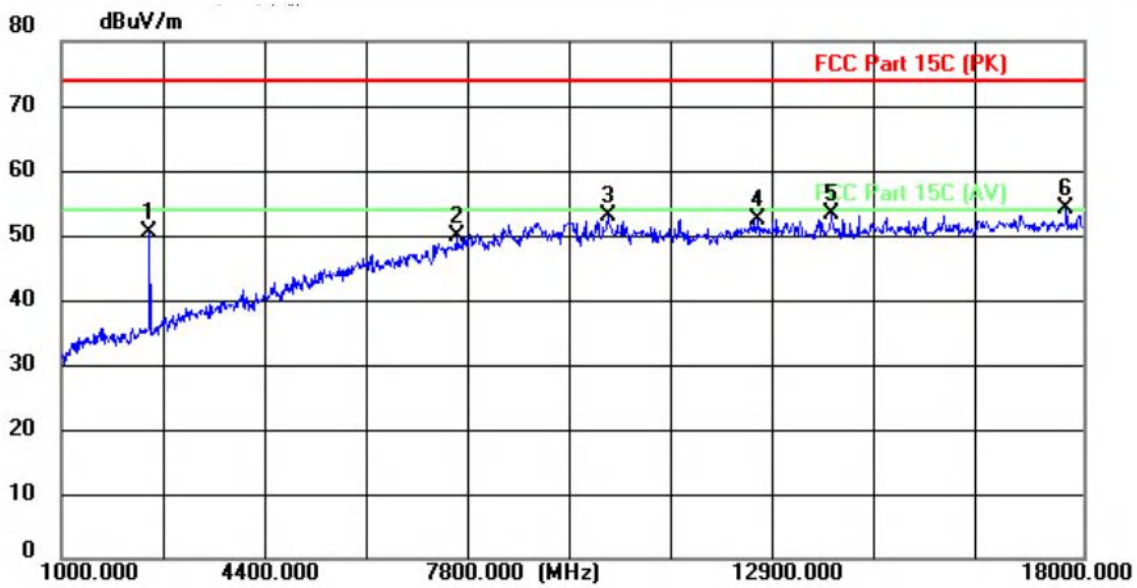


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2462.0000	65.58	-15.32	50.26	74.00	-23.74	peak
2	8412.0000	50.54	0.87	51.41	74.00	-22.59	peak
3	10095.0000	50.73	2.30	53.03	74.00	-20.97	peak
4	12220.0000	48.44	4.80	53.24	74.00	-20.76	peak
5	15365.0000	43.90	9.22	53.12	74.00	-20.88	peak
6 *	17711.0000	42.34	11.63	53.97	74.00	-20.03	peak

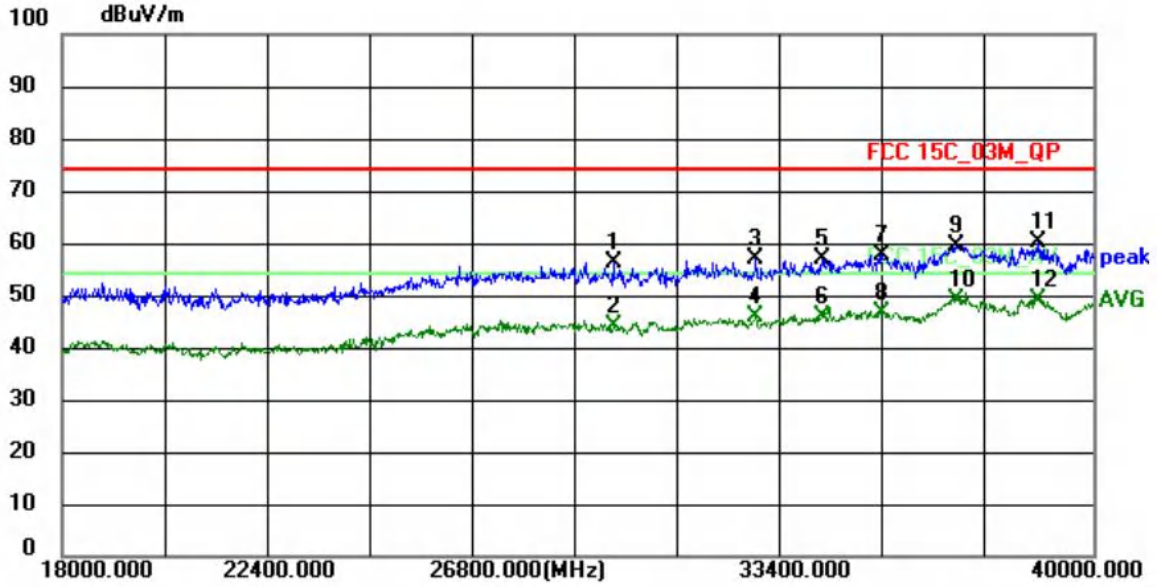


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	29902.0000	47.06	9.10	56.16	74.00	-17.84	peak
2	29902.0000	35.19	9.10	44.29	54.00	-9.71	AVG
3	31662.0000	47.43	9.35	56.78	74.00	-17.22	peak
4	31662.0000	35.84	9.35	45.19	54.00	-8.81	AVG
5	33884.0000	48.16	9.49	57.65	74.00	-16.35	peak
6	33884.0000	36.31	9.49	45.80	54.00	-8.20	AVG
7	36942.0000	50.62	9.74	60.36	74.00	-13.64	peak
8 *	36942.0000	40.19	9.74	49.93	54.00	-4.07	AVG
9	38790.0000	52.17	9.06	61.23	74.00	-12.77	peak
10	38790.0000	39.68	9.06	48.74	54.00	-5.26	AVG
11	39802.0000	50.40	9.92	60.32	74.00	-13.68	peak
12	39802.0000	38.44	9.92	48.36	54.00	-5.64	AVG

Temperature:	25.6℃	Relative Humidity:	47%
Pressure:	101 kPa	Polarization:	Vertical
Test Voltage:	DC 12V	Test mode:	802.11g 2462MHz

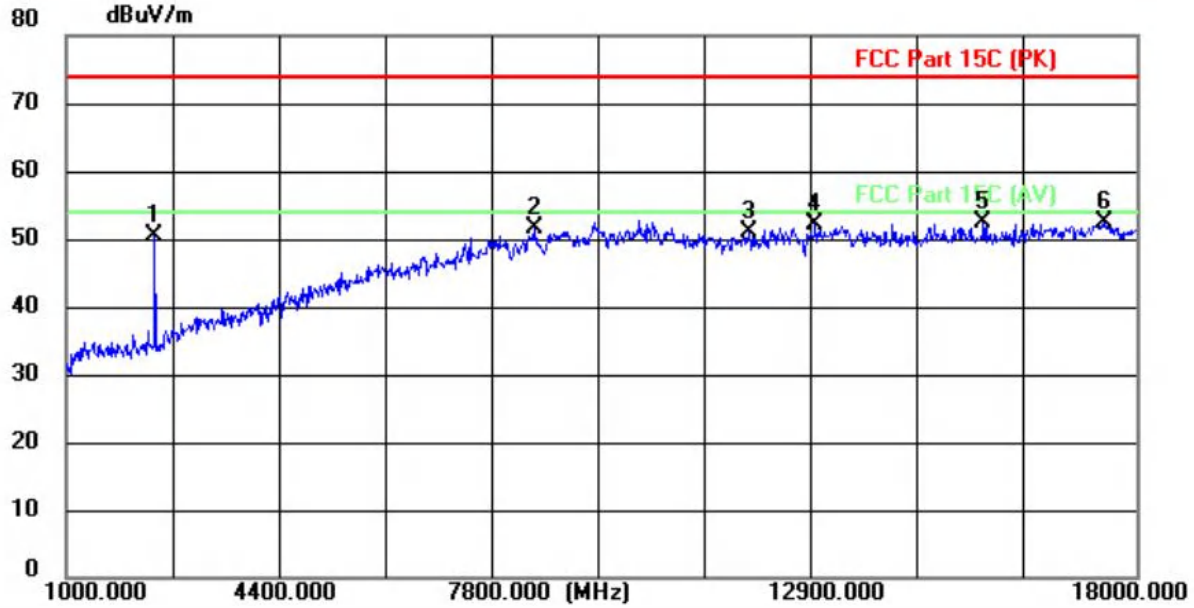


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2462.0000	65.68	-15.32	50.36	74.00	-23.64	peak
2	7596.0000	50.52	-0.56	49.96	74.00	-24.04	peak
3	10095.0000	50.79	2.30	53.09	74.00	-20.91	peak
4	12594.0000	47.22	5.34	52.56	74.00	-21.44	peak
5	13818.0000	46.13	7.13	53.26	74.00	-20.74	peak
6 *	17711.0000	42.46	11.63	54.09	74.00	-19.91	peak

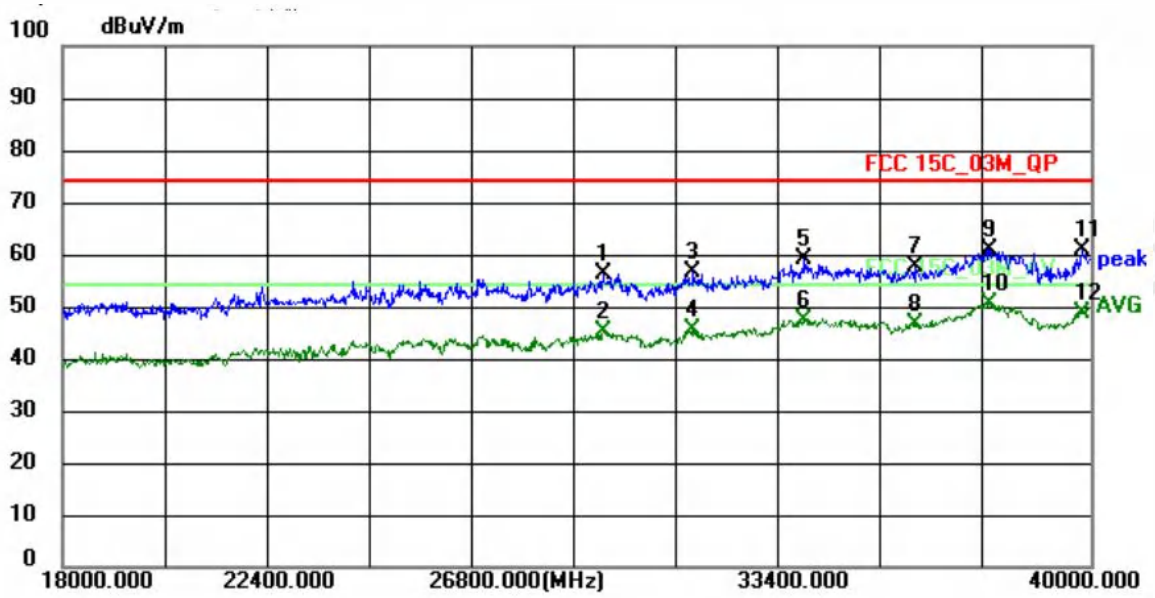


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	29770.0000	47.13	9.14	56.27	74.00	-17.73	peak
2	29770.0000	34.83	9.14	43.97	54.00	-10.03	AVG
3	32806.0000	47.88	9.25	57.13	74.00	-16.87	peak
4	32806.0000	36.58	9.25	45.83	54.00	-8.17	AVG
5	34214.0000	47.19	9.67	56.86	74.00	-17.14	peak
6	34214.0000	36.05	9.67	45.72	54.00	-8.28	AVG
7	35512.0000	47.37	10.27	57.64	74.00	-16.36	peak
8	35512.0000	36.27	10.27	46.54	54.00	-7.46	AVG
9	37096.0000	49.70	9.75	59.45	74.00	-14.55	peak
10 *	37096.0000	39.53	9.75	49.28	54.00	-4.72	AVG
11	38812.0000	51.06	9.06	60.12	74.00	-13.88	peak
12	38812.0000	40.04	9.06	49.10	54.00	-4.90	AVG

Temperature:	25.6℃	Relative Humidity:	47%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 12V	Test mode:	802.11n20 2412MHz

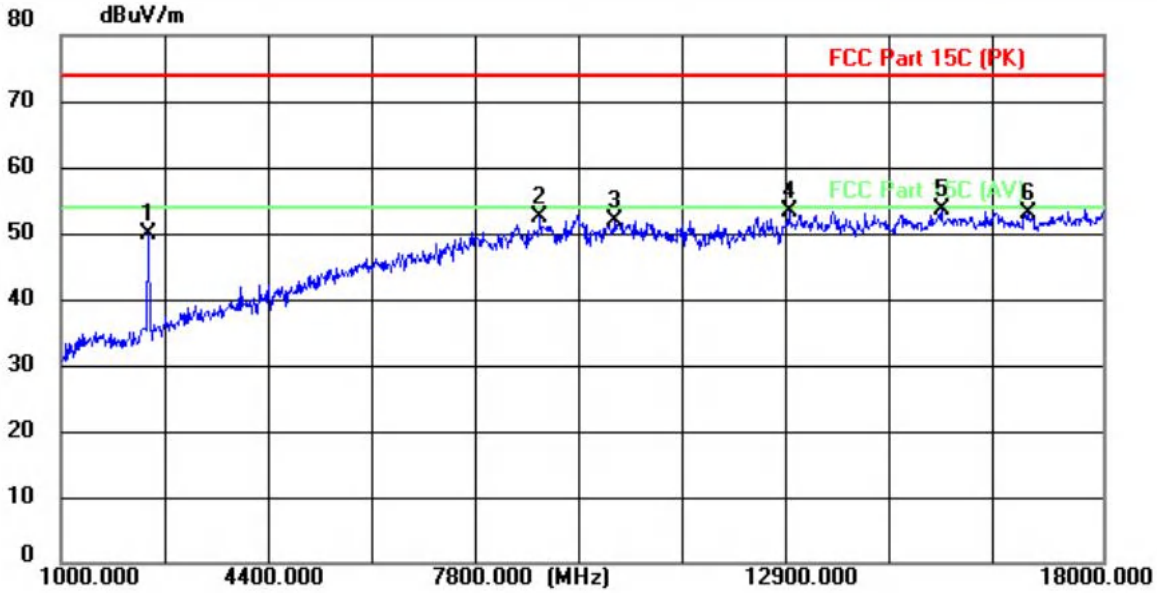


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2411.0000	65.86	-15.52	50.34	74.00	-23.66	peak
2	8429.0000	50.81	0.89	51.70	74.00	-22.30	peak
3	11846.0000	46.67	4.29	50.96	74.00	-23.04	peak
4	12900.0000	46.33	5.78	52.11	74.00	-21.89	peak
5 *	15569.0000	43.10	9.43	52.53	74.00	-21.47	peak
6	17507.0000	40.91	11.41	52.32	74.00	-21.68	peak

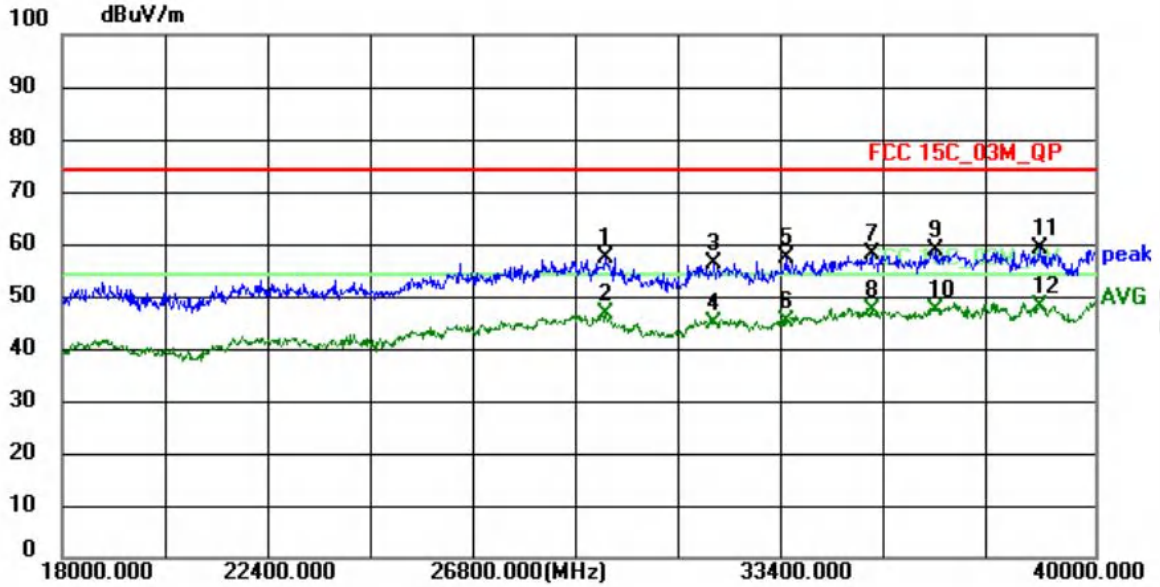


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	29572.0000	47.13	9.19	56.32	74.00	-17.68	peak
2	29572.0000	35.91	9.19	45.10	54.00	-8.90	AVG
3	31486.0000	47.22	9.32	56.54	74.00	-17.46	peak
4	31486.0000	36.20	9.32	45.52	54.00	-8.48	AVG
5	33884.0000	49.66	9.49	59.15	74.00	-14.85	peak
6	33884.0000	37.81	9.49	47.30	54.00	-6.70	AVG
7	36260.0000	47.85	9.85	57.70	74.00	-16.30	peak
8	36260.0000	36.78	9.85	46.63	54.00	-7.37	AVG
9	37844.0000	51.18	9.89	61.07	74.00	-12.93	peak
10 *	37844.0000	40.77	9.89	50.66	54.00	-3.34	AVG
11	39802.0000	50.90	9.92	60.82	74.00	-13.18	peak

Temperature:	25.6℃	Relative Humidity:	47%
Pressure:	101 kPa	Polarization:	Vertical
Test Voltage:	DC 12V	Test mode:	802.11n20 2412MHz

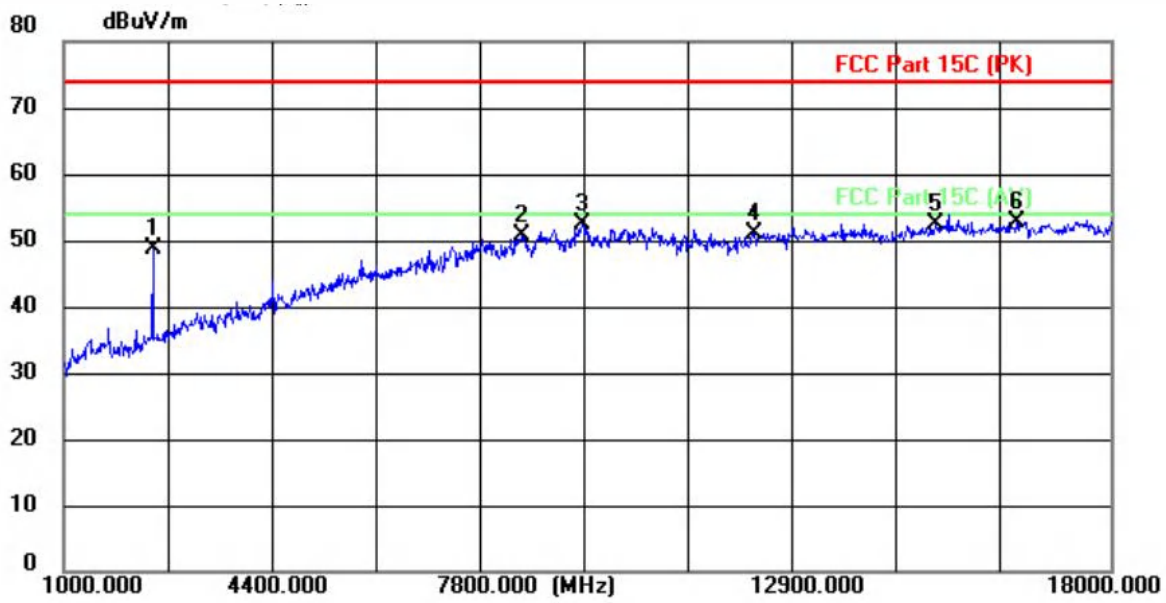


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2428.0000	65.44	-15.46	49.98	74.00	-24.02	peak
2	8820.0000	50.90	1.39	52.29	74.00	-21.71	peak
3	10044.0000	49.68	2.24	51.92	74.00	-22.08	peak
4	12883.0000	47.51	5.76	53.27	74.00	-20.73	peak
5 *	15365.0000	44.38	9.22	53.60	74.00	-20.40	peak
6	16776.0000	42.40	10.67	53.07	74.00	-20.93	peak

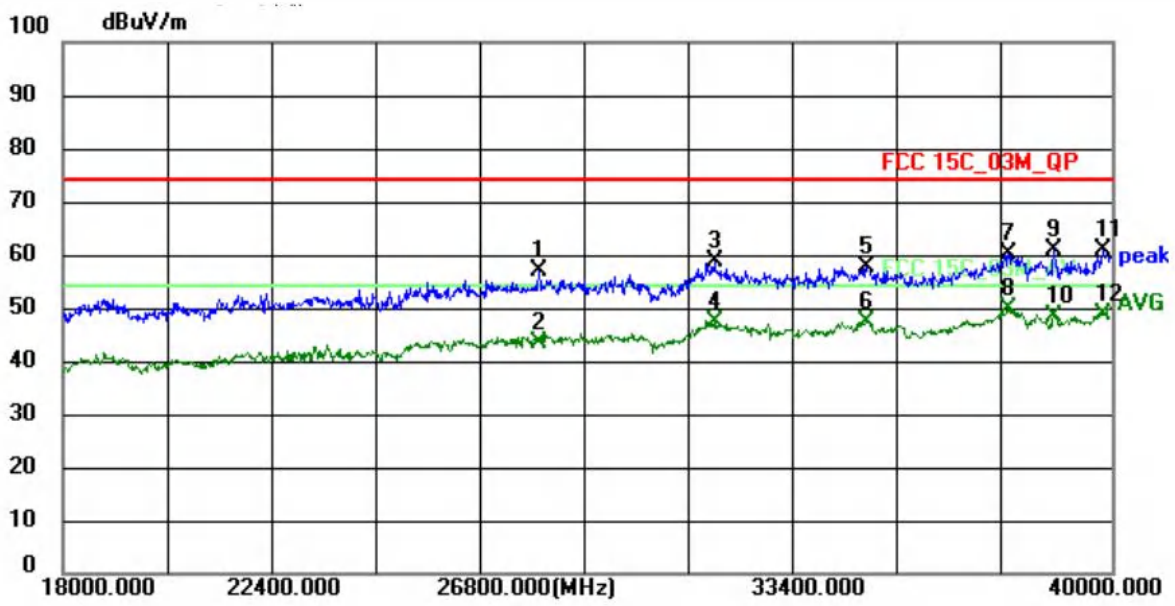


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	29594.0000	48.10	9.18	57.28	74.00	-16.72	peak
2	29594.0000	37.30	9.18	46.48	54.00	-7.52	AVG
3	31882.0000	46.78	9.40	56.18	74.00	-17.82	peak
4	31882.0000	35.37	9.40	44.77	54.00	-9.23	AVG
5	33444.0000	47.93	9.31	57.24	74.00	-16.76	peak
6	33444.0000	35.92	9.31	45.23	54.00	-8.77	AVG
7	35248.0000	47.92	10.18	58.10	74.00	-15.90	peak
8	35248.0000	37.18	10.18	47.36	54.00	-6.64	AVG
9	36612.0000	49.10	9.74	58.84	74.00	-15.16	peak
10	36612.0000	37.76	9.74	47.50	54.00	-6.50	AVG
11	38812.0000	50.06	9.06	59.12	74.00	-14.88	peak
12 *	38812.0000	39.04	9.06	48.10	54.00	-5.90	AVG

Temperature:	25.6℃	Relative Humidity:	47%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 12V	Test mode:	802.11n20 2437MHz

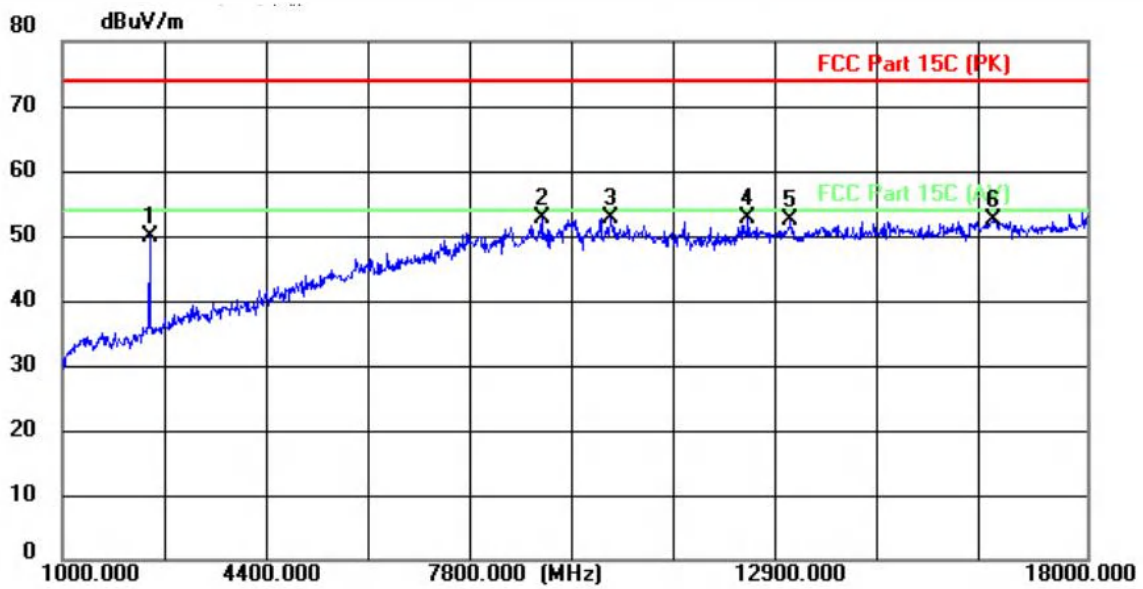


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2445.0000	64.17	-15.39	48.78	74.00	-25.22	peak
2	8446.0000	49.73	0.91	50.64	74.00	-23.36	peak
3	9432.0000	50.66	1.87	52.53	74.00	-21.47	peak
4	12203.0000	46.25	4.77	51.02	74.00	-22.98	peak
5	15161.0000	43.52	9.01	52.53	74.00	-21.47	peak
6 *	16487.0000	42.47	10.37	52.84	74.00	-21.16	peak

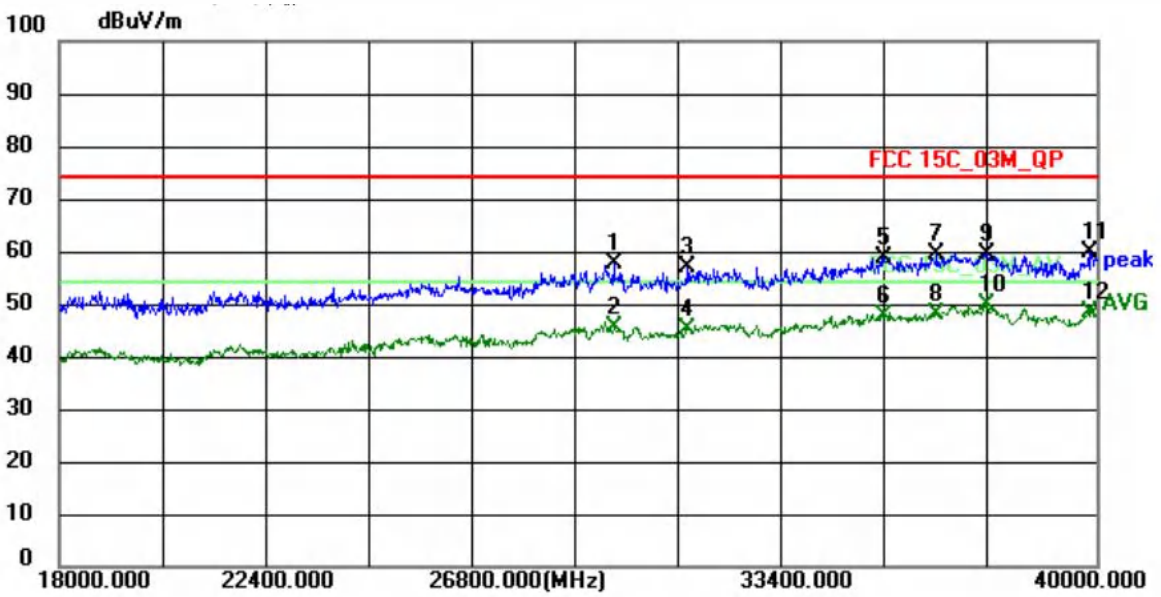


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	27988.0000	49.26	7.60	56.86	74.00	-17.14	peak
2	27988.0000	35.97	7.60	43.57	54.00	-10.43	AVG
3	31662.0000	49.43	9.35	58.78	74.00	-15.22	peak
4	31662.0000	37.84	9.35	47.19	54.00	-6.81	AVG
5	34852.0000	47.67	10.02	57.69	74.00	-16.31	peak
6	34852.0000	37.21	10.02	47.23	54.00	-6.77	AVG
7	37844.0000	50.18	9.89	60.07	74.00	-13.93	peak
8 *	37844.0000	39.77	9.89	49.66	54.00	-4.34	AVG
9	38790.0000	51.67	9.06	60.73	74.00	-13.27	peak
10	38790.0000	39.18	9.06	48.24	54.00	-5.76	AVG
11	39802.0000	50.90	9.92	60.82	74.00	-13.18	peak
12	39802.0000	38.94	9.92	48.86	54.00	-5.14	AVG

Temperature:	25.6℃	Relative Humidity:	47%
Pressure:	101 kPa	Polarization:	Vertical
Test Voltage:	DC 12V	Test mode:	802.11n20 2437MHz

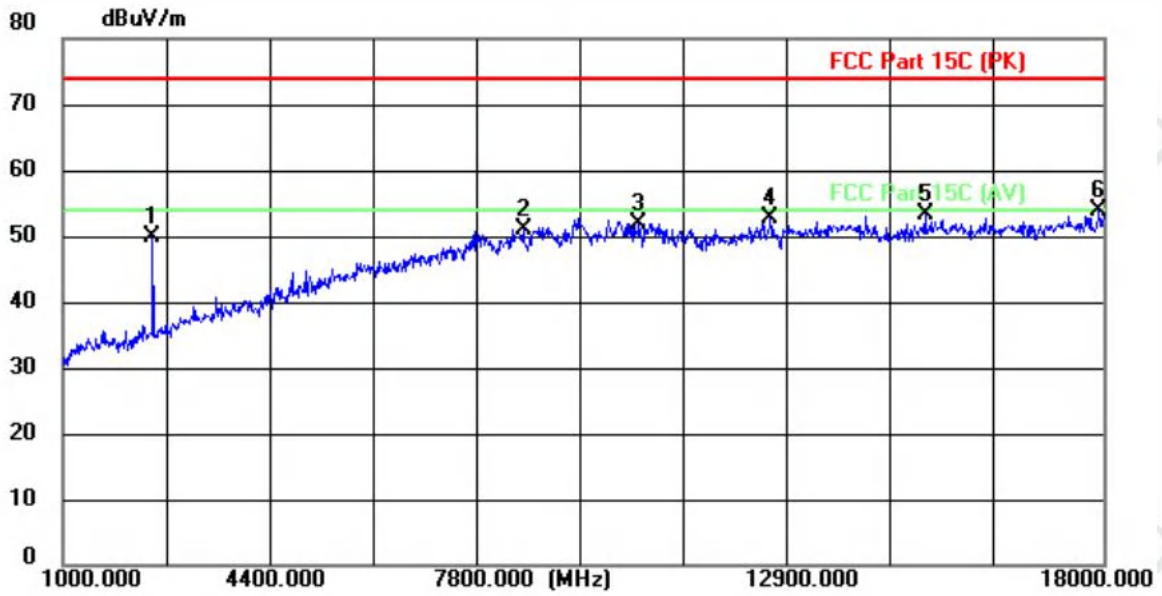


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2445.0000	65.14	-15.39	49.75	74.00	-24.25	peak
2 *	8956.0000	51.28	1.56	52.84	74.00	-21.16	peak
3	10112.0000	50.41	2.32	52.73	74.00	-21.27	peak
4	12373.0000	47.69	5.01	52.70	74.00	-21.30	peak
5	13087.0000	46.24	6.05	52.29	74.00	-21.71	peak
6	16436.0000	42.07	10.32	52.39	74.00	-21.61	peak

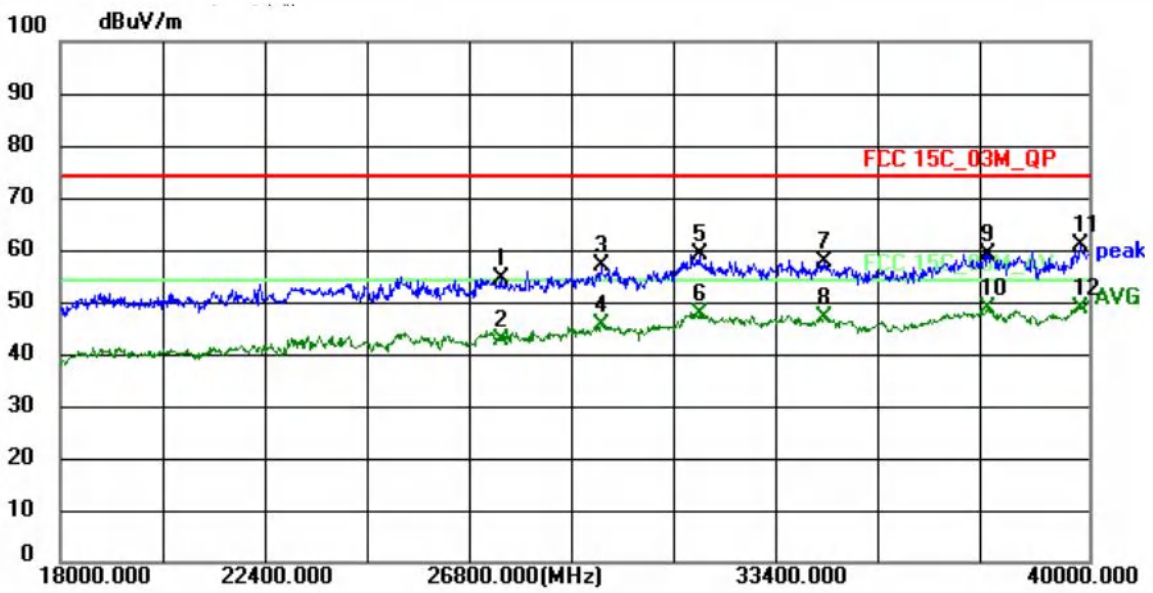


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	29770.0000	48.63	9.14	57.77	74.00	-16.23	peak
2	29770.0000	36.33	9.14	45.47	54.00	-8.53	AVG
3	31332.0000	47.82	9.23	57.05	74.00	-16.95	peak
4	31332.0000	35.92	9.23	45.15	54.00	-8.85	AVG
5	35512.0000	48.37	10.27	58.64	74.00	-15.36	peak
6	35512.0000	37.27	10.27	47.54	54.00	-6.46	AVG
7	36612.0000	49.60	9.74	59.34	74.00	-14.66	peak
8	36612.0000	38.26	9.74	48.00	54.00	-6.00	AVG
9	37668.0000	49.73	9.86	59.59	74.00	-14.41	peak
10 *	37668.0000	40.03	9.86	49.89	54.00	-4.11	AVG
11	39868.0000	49.73	10.00	59.73	74.00	-14.27	peak
12	39868.0000	38.55	10.00	48.55	54.00	-5.45	AVG

Temperature:	25.6℃	Relative Humidity:	47%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 12V	Test mode:	802.11n20 2462MHz

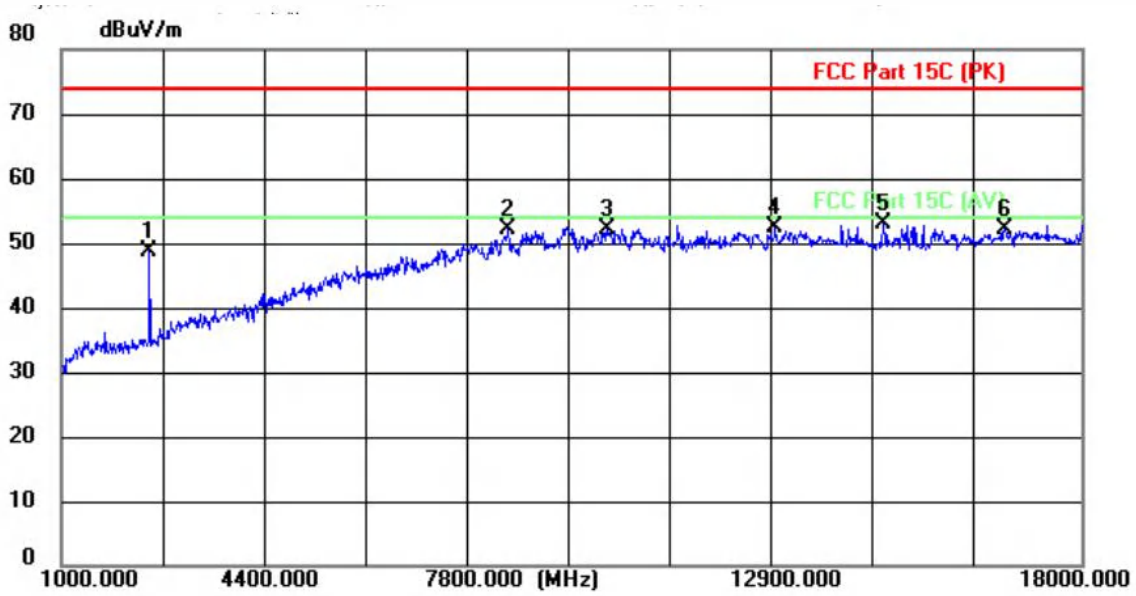


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2462.0000	65.29	-15.32	49.97	74.00	-24.03	peak
2	8531.0000	50.03	1.03	51.06	74.00	-22.94	peak
3	10418.0000	49.28	2.67	51.95	74.00	-22.05	peak
4	12560.0000	47.49	5.28	52.77	74.00	-21.23	peak
5	15093.0000	44.34	8.94	53.28	74.00	-20.72	peak
6 *	17932.0000	42.03	11.85	53.88	74.00	-20.12	peak

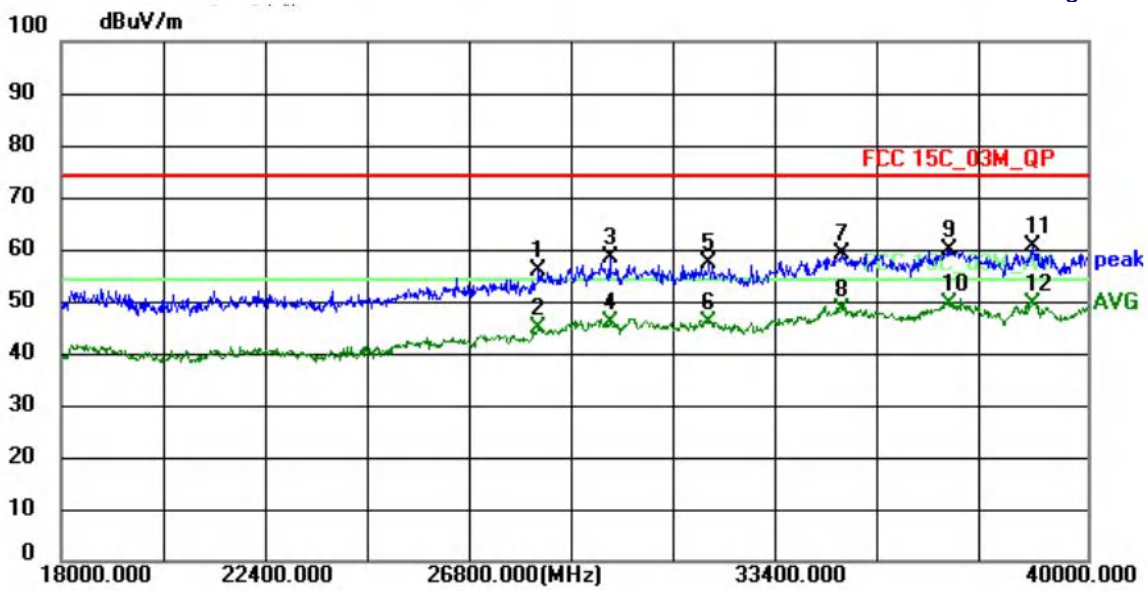


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	27416.0000	47.39	7.10	54.49	74.00	-19.51	peak
2	27416.0000	35.70	7.10	42.80	54.00	-11.20	AVG
3	29572.0000	47.63	9.19	56.82	74.00	-17.18	peak
4	29572.0000	36.41	9.19	45.60	54.00	-8.40	AVG
5	31662.0000	49.93	9.35	59.28	74.00	-14.72	peak
6	31662.0000	38.34	9.35	47.69	54.00	-6.31	AVG
7	34324.0000	47.93	9.73	57.66	74.00	-16.34	peak
8	34324.0000	37.32	9.73	47.05	54.00	-6.95	AVG
9	37844.0000	49.18	9.89	59.07	74.00	-14.93	peak
10	37844.0000	38.77	9.89	48.66	54.00	-5.34	AVG
11	39802.0000	50.90	9.92	60.82	74.00	-13.18	peak
12 *	39802.0000	38.94	9.92	48.86	54.00	-5.14	AVG

Temperature:	25.6℃	Relative Humidity:	47%
Pressure:	101 kPa	Polarization:	Vertical
Test Voltage:	DC 12V	Test mode:	802.11n20 2462MHz

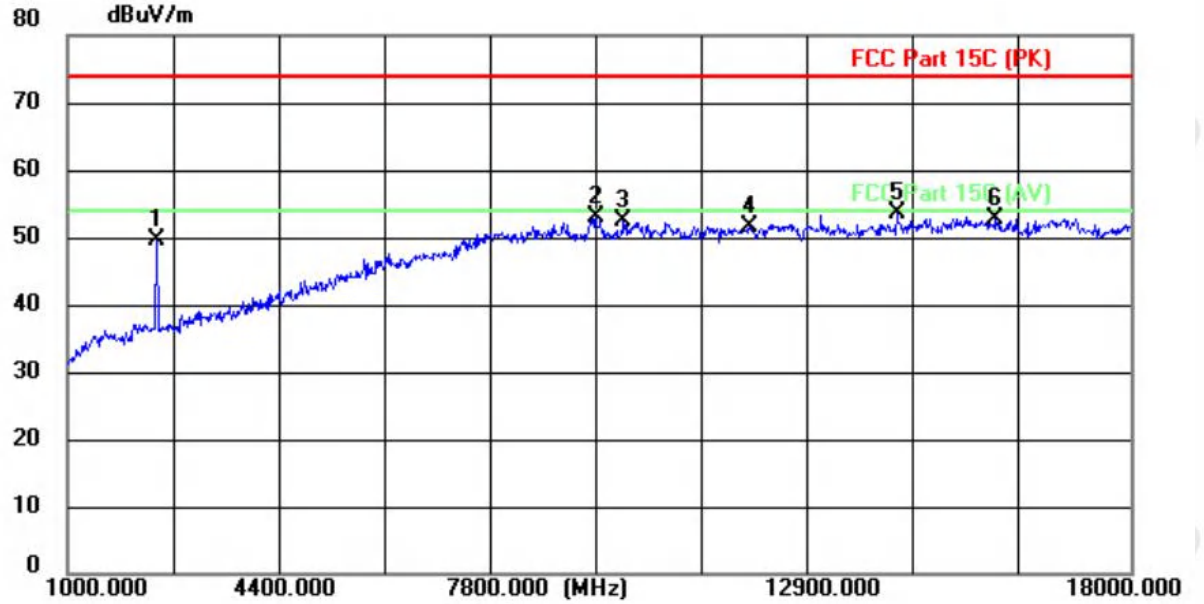


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2462.0000	63.97	-15.32	48.65	74.00	-25.35	peak
2	8446.0000	51.17	0.91	52.08	74.00	-21.92	peak
3	10112.0000	49.77	2.32	52.09	74.00	-21.91	peak
4	12900.0000	46.56	5.78	52.34	74.00	-21.66	peak
5 *	14702.0000	44.46	8.41	52.87	74.00	-21.13	peak
6	16725.0000	41.47	10.61	52.08	74.00	-21.92	peak

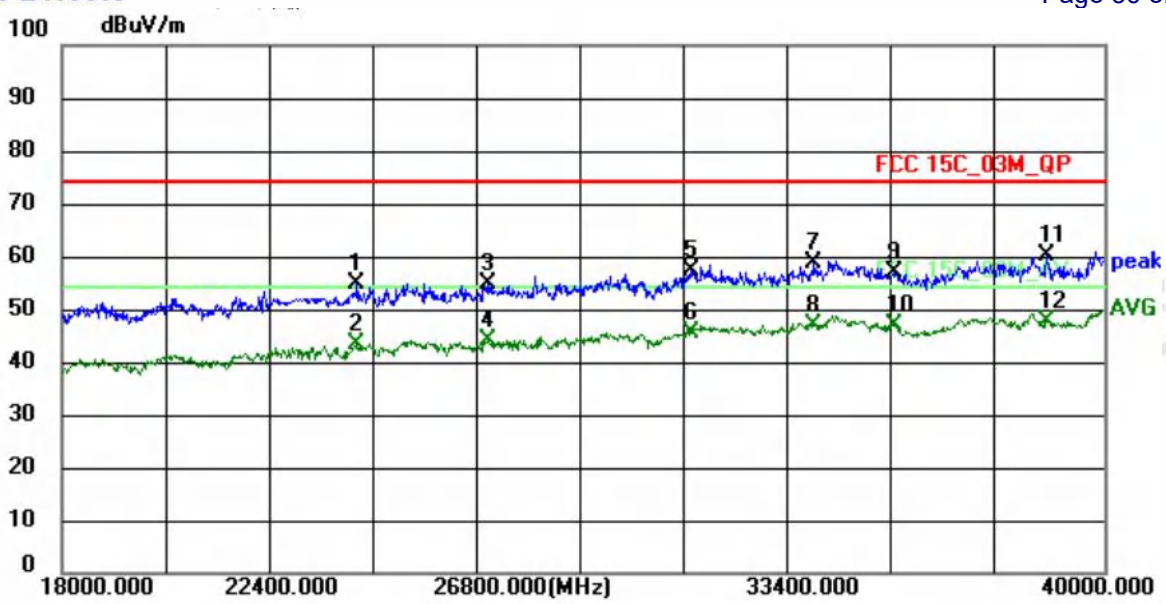


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	28230.0000	47.91	7.97	55.88	74.00	-18.12	peak
2	28230.0000	36.78	7.97	44.75	54.00	-9.25	AVG
3	29770.0000	49.13	9.14	58.27	74.00	-15.73	peak
4	29770.0000	36.83	9.14	45.97	54.00	-8.03	AVG
5	31882.0000	47.78	9.40	57.18	74.00	-16.82	peak
6	31882.0000	36.37	9.40	45.77	54.00	-8.23	AVG
7	34720.0000	49.20	9.95	59.15	74.00	-14.85	peak
8	34720.0000	38.34	9.95	48.29	54.00	-5.71	AVG
9	37052.0000	49.98	9.74	59.72	74.00	-14.28	peak
10	37052.0000	39.60	9.74	49.34	54.00	-4.66	AVG
11	38812.0000	51.56	9.06	60.62	74.00	-13.38	peak
12 *	38812.0000	40.54	9.06	49.60	54.00	-4.40	AVG

Temperature:	25.6℃	Relative Humidity:	47%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 12V	Test mode:	802.11n40 2422MHz

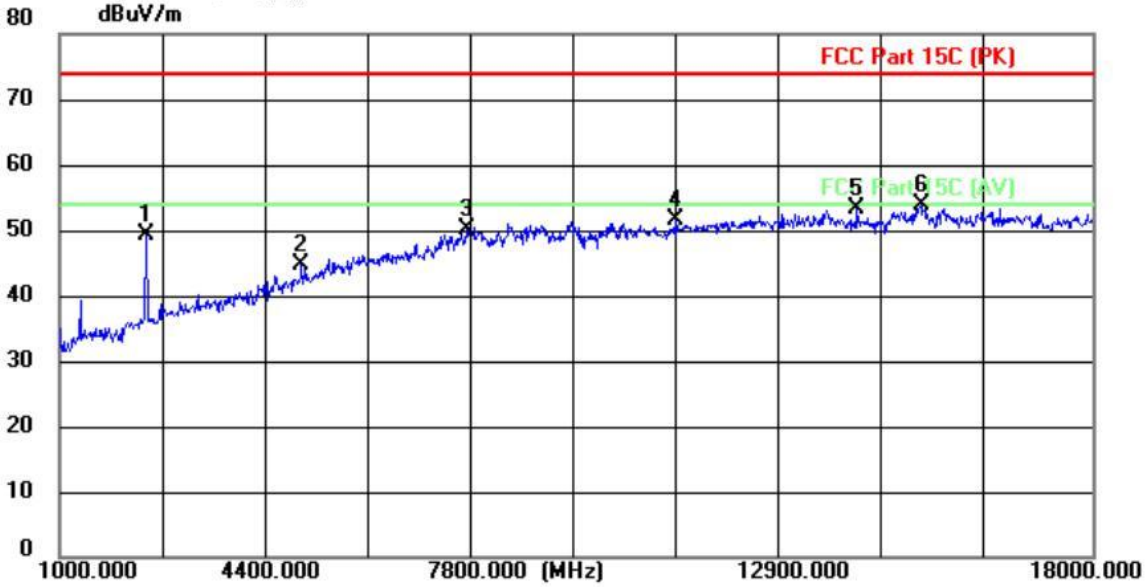


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2428.0000	65.03	-15.46	49.57	74.00	-24.43	peak
2	9449.0000	51.06	1.87	52.93	74.00	-21.07	peak
3	9891.0000	50.27	2.14	52.41	74.00	-21.59	peak
4	11914.0000	47.27	4.38	51.65	74.00	-22.35	peak
5 *	14260.0000	45.71	7.76	53.47	74.00	-20.53	peak
6	15841.0000	42.95	9.72	52.67	74.00	-21.33	peak

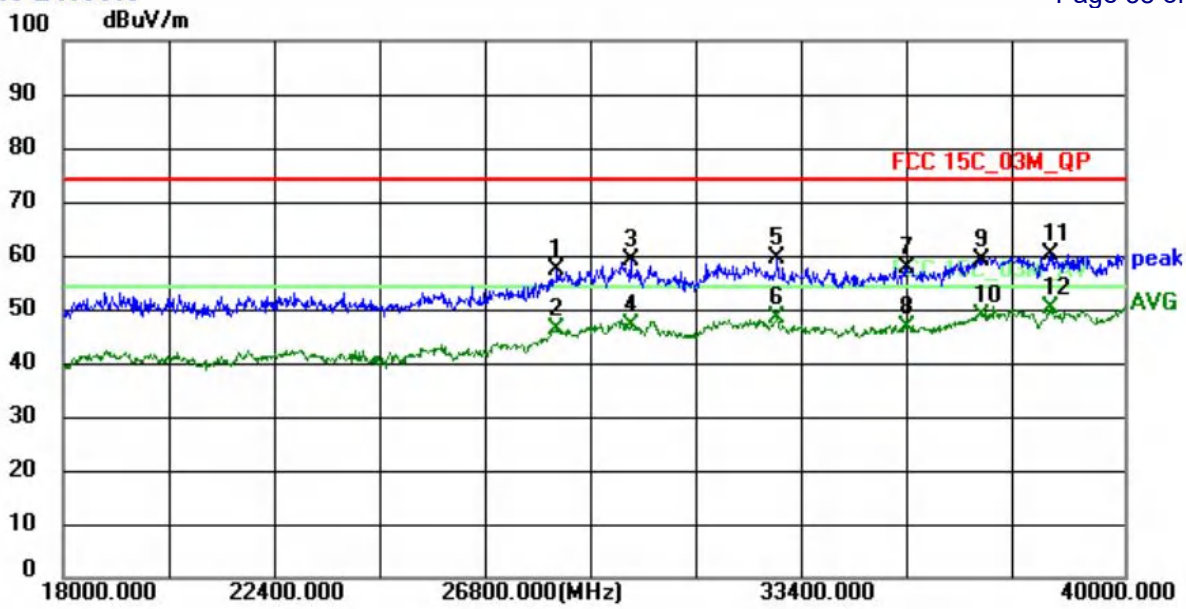


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	24226.0000	50.08	4.74	54.82	74.00	-19.18	peak
2	24226.0000	38.49	4.74	43.23	54.00	-10.77	AVG
3	26976.0000	47.96	6.84	54.80	74.00	-19.20	peak
4	26976.0000	37.29	6.84	44.13	54.00	-9.87	AVG
5	31266.0000	47.99	9.20	57.19	74.00	-16.81	peak
6	31266.0000	36.46	9.20	45.66	54.00	-8.34	AVG
7	33884.0000	49.16	9.49	58.65	74.00	-15.35	peak
8	33884.0000	37.31	9.49	46.80	54.00	-7.20	AVG
9	35578.0000	46.84	10.23	57.07	74.00	-16.93	peak
10	35578.0000	36.85	10.23	47.08	54.00	-6.92	AVG
11	38790.0000	51.17	9.06	60.23	74.00	-13.77	peak
12 *	38790.0000	38.68	9.06	47.74	54.00	-6.26	AVG

Temperature:	25.6℃	Relative Humidity:	47%
Pressure:	101 kPa	Polarization:	Vertical
Test Voltage:	DC 12V	Test mode:	802.11n40 2422MHz

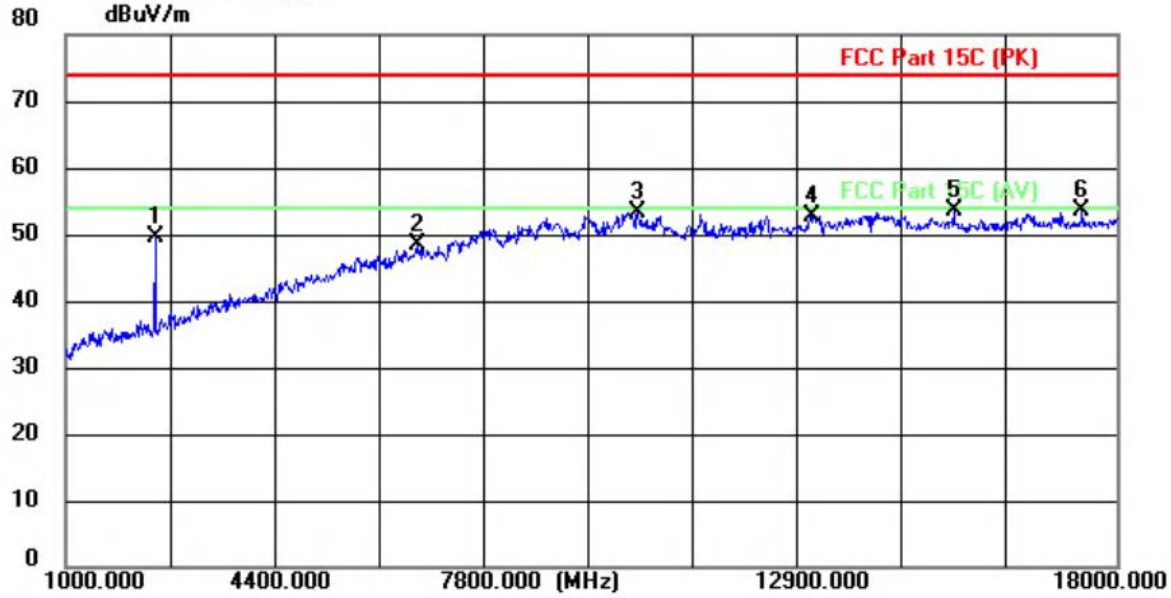


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2428.0000	64.68	-15.46	49.22	74.00	-24.78	peak
2	4978.0000	51.42	-6.81	44.61	74.00	-29.39	peak
3	7698.0000	50.52	-0.33	50.19	74.00	-23.81	peak
4	11149.0000	48.08	3.50	51.58	74.00	-22.42	peak
5	14124.0000	45.73	7.58	53.31	74.00	-20.69	peak
6 *	15178.0000	44.89	9.03	53.92	74.00	-20.08	peak

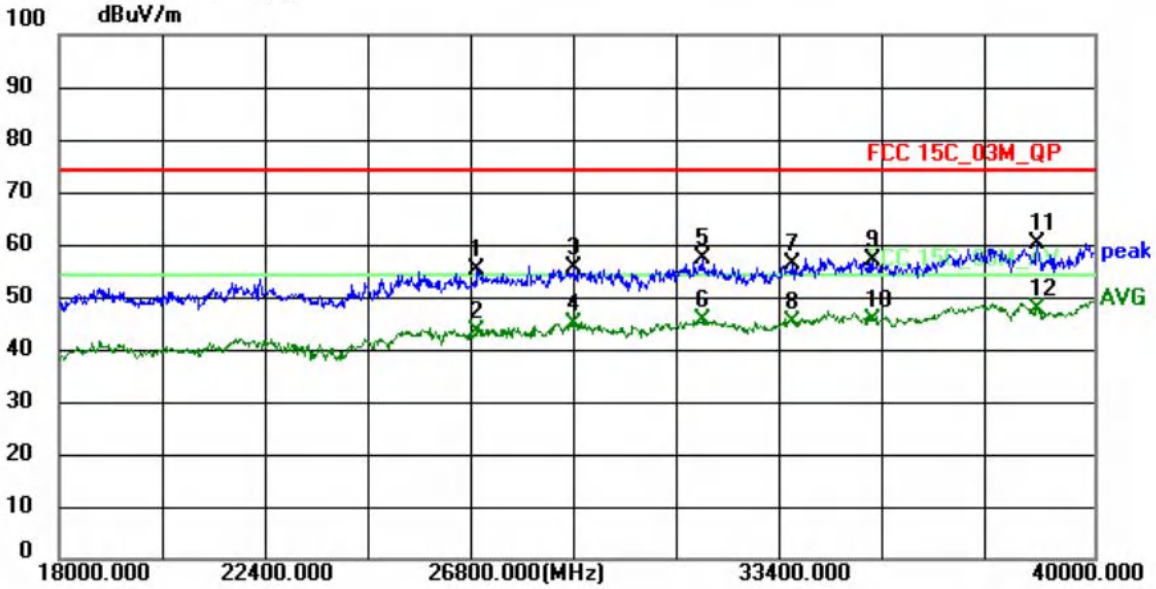


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	28230.0000	49.41	7.97	57.38	74.00	-16.62	peak
2	28230.0000	38.28	7.97	46.25	54.00	-7.75	AVG
3	29770.0000	50.13	9.14	59.27	74.00	-14.73	peak
4	29770.0000	37.83	9.14	46.97	54.00	-7.03	AVG
5	32806.0000	50.38	9.25	59.63	74.00	-14.37	peak
6	32806.0000	39.08	9.25	48.33	54.00	-5.67	AVG
7	35512.0000	47.37	10.27	57.64	74.00	-16.36	peak
8	35512.0000	36.27	10.27	46.54	54.00	-7.46	AVG
9	37052.0000	49.48	9.74	59.22	74.00	-14.78	peak
10	37052.0000	39.10	9.74	48.84	54.00	-5.16	AVG
11	38460.0000	51.07	9.08	60.15	74.00	-13.85	peak
12 *	38460.0000	41.16	9.08	50.24	54.00	-3.76	AVG

Temperature:	25.6℃	Relative Humidity:	47%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 12V	Test mode:	802.11n40 2437MHz

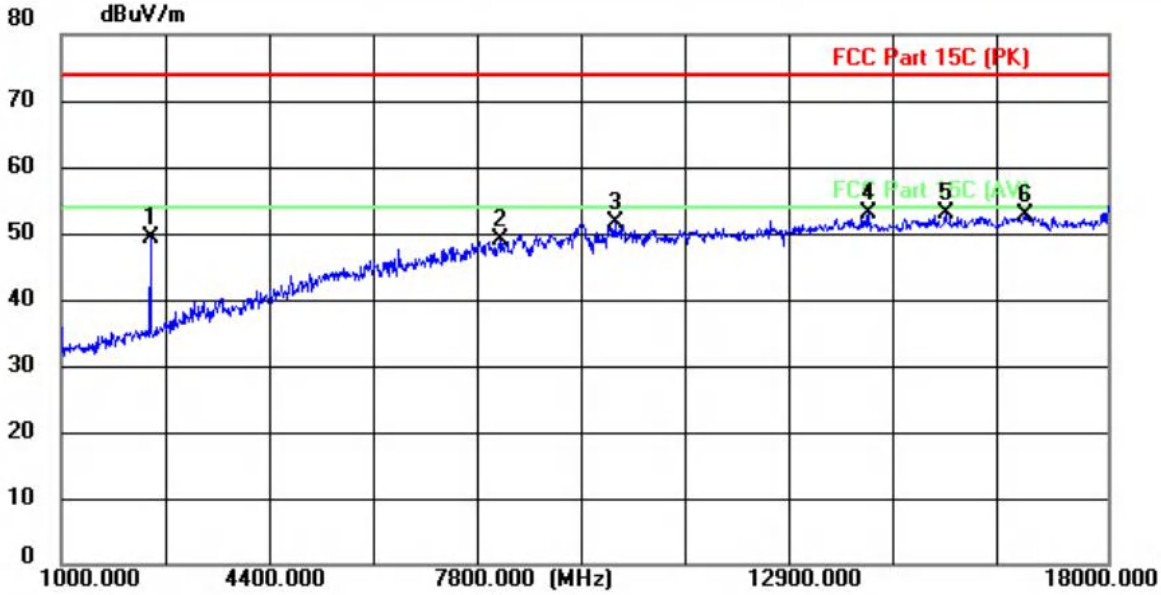


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2445.0000	65.07	-15.39	49.68	74.00	-24.32	peak
2	6678.0000	50.92	-2.59	48.33	74.00	-25.67	peak
3	10265.0000	50.78	2.50	53.28	74.00	-20.72	peak
4	13070.0000	46.74	6.03	52.77	74.00	-21.23	peak
5 *	15365.0000	44.31	9.22	53.53	74.00	-20.47	peak
6	17439.0000	42.17	11.35	53.52	74.00	-20.48	peak

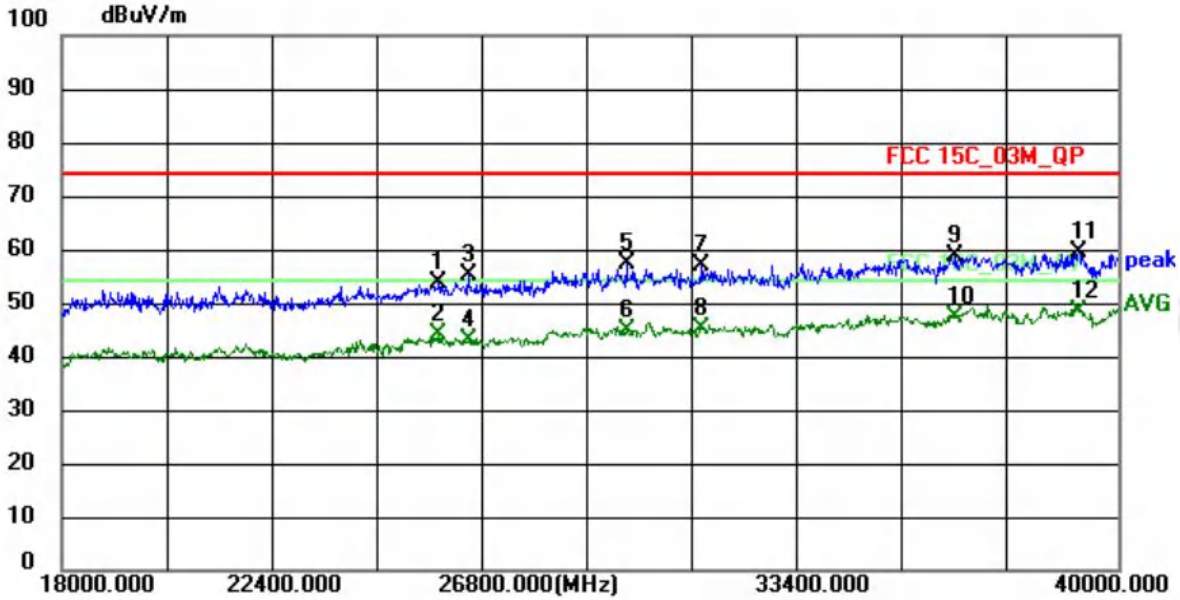


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	26888.0000	48.54	6.73	55.27	74.00	-18.73	peak
2	26888.0000	36.58	6.73	43.31	54.00	-10.69	AVG
3	28956.0000	46.54	9.06	55.60	74.00	-18.40	peak
4	28956.0000	35.60	9.06	44.66	54.00	-9.34	AVG
5	31662.0000	47.93	9.35	57.28	74.00	-16.72	peak
6	31662.0000	36.34	9.35	45.69	54.00	-8.31	AVG
7	33598.0000	46.74	9.36	56.10	74.00	-17.90	peak
8	33598.0000	35.91	9.36	45.27	54.00	-8.73	AVG
9	35292.0000	46.59	10.20	56.79	74.00	-17.21	peak
10	35292.0000	35.44	10.20	45.64	54.00	-8.36	AVG
11	38790.0000	51.17	9.06	60.23	74.00	-13.77	peak
12 *	38790.0000	38.68	9.06	47.74	54.00	-6.26	AVG

Temperature:	25.6℃	Relative Humidity:	47%
Pressure:	101 kPa	Polarization:	Vertical
Test Voltage:	DC 12V	Test mode:	802.11n40 2437MHz

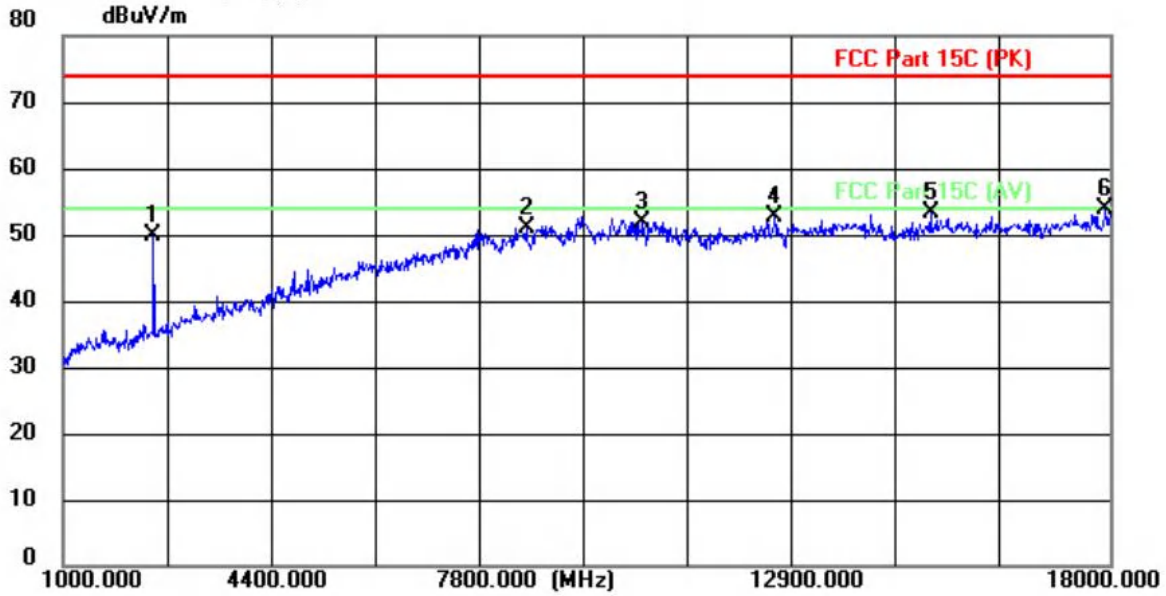


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2445.0000	64.79	-15.39	49.40	74.00	-24.60	peak
2	8140.0000	48.54	0.53	49.07	74.00	-24.93	peak
3	9993.0000	49.33	2.19	51.52	74.00	-22.48	peak
4 *	14124.0000	45.51	7.58	53.09	74.00	-20.91	peak
5	15365.0000	43.77	9.22	52.99	74.00	-21.01	peak
6	16674.0000	42.10	10.56	52.66	74.00	-21.34	peak

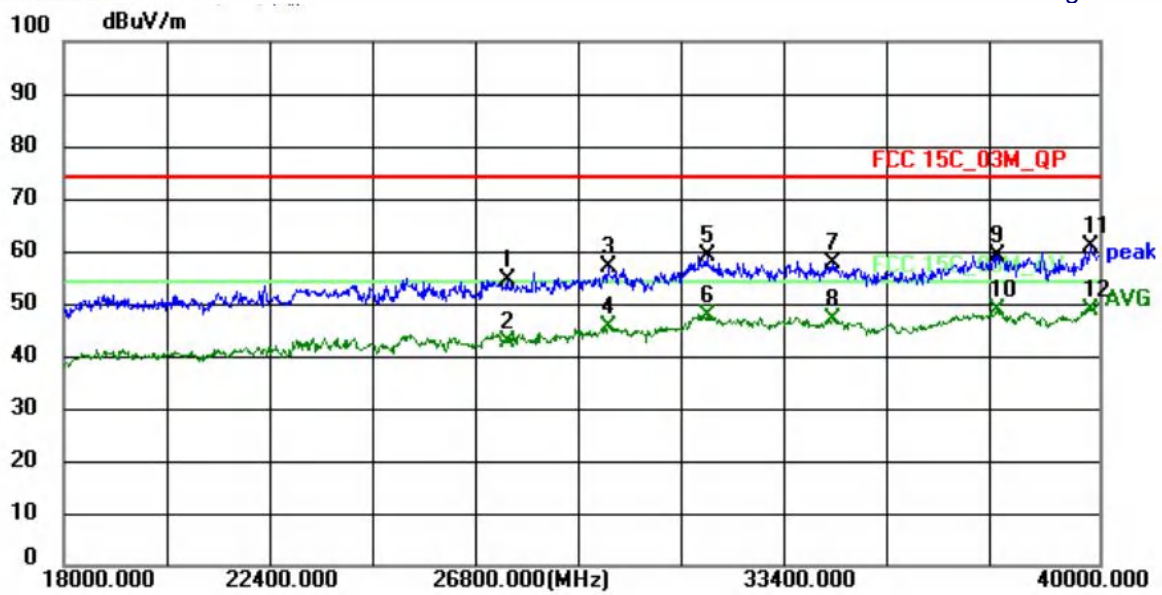


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	25854.0000	47.68	5.99	53.67	74.00	-20.33	peak
2	25854.0000	37.97	5.99	43.96	54.00	-10.04	AVG
3	26470.0000	48.86	6.28	55.14	74.00	-18.86	peak
4	26470.0000	36.66	6.28	42.94	54.00	-11.06	AVG
5	29770.0000	48.13	9.14	57.27	74.00	-16.73	peak
6	29770.0000	35.83	9.14	44.97	54.00	-9.03	AVG
7	31332.0000	47.82	9.23	57.05	74.00	-16.95	peak
8	31332.0000	35.92	9.23	45.15	54.00	-8.85	AVG
9	36612.0000	49.10	9.74	58.84	74.00	-15.16	peak
10	36612.0000	37.76	9.74	47.50	54.00	-6.50	AVG
11	39186.0000	50.09	9.28	59.37	74.00	-14.63	peak
12 *	39186.0000	39.14	9.28	48.42	54.00	-5.58	AVG

Temperature:	25.6℃	Relative Humidity:	47%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 12V	Test mode:	802.11n20 2462MHz

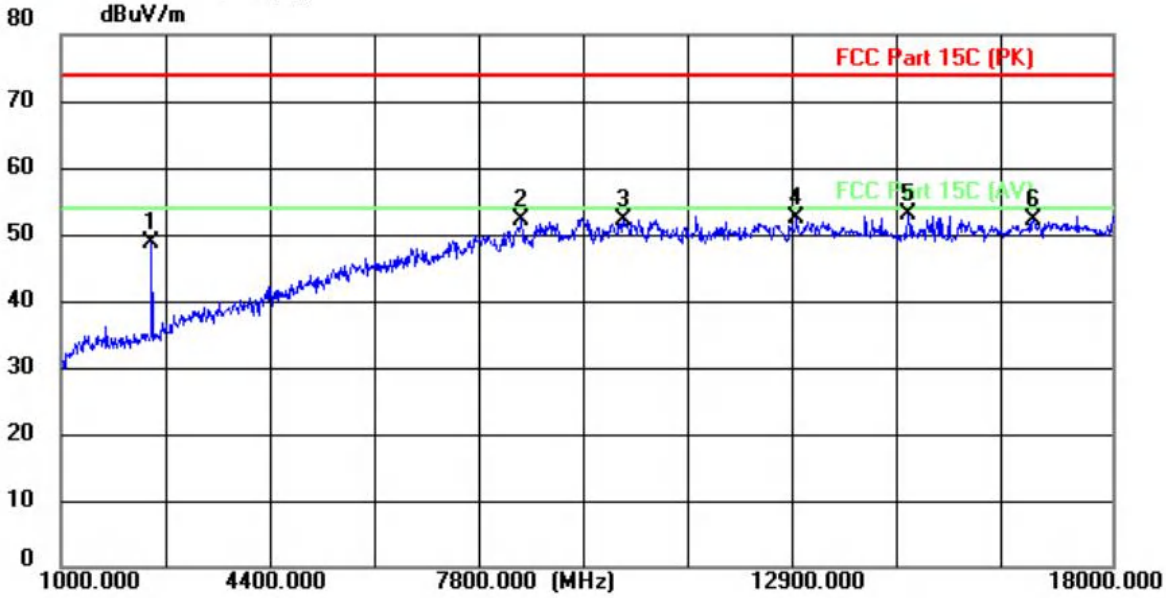


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2462.0000	65.29	-15.32	49.97	74.00	-24.03	peak
2	8531.0000	50.03	1.03	51.06	74.00	-22.94	peak
3	10418.0000	49.28	2.67	51.95	74.00	-22.05	peak
4	12560.0000	47.49	5.28	52.77	74.00	-21.23	peak
5	15093.0000	44.34	8.94	53.28	74.00	-20.72	peak
6 *	17932.0000	42.03	11.85	53.88	74.00	-20.12	peak

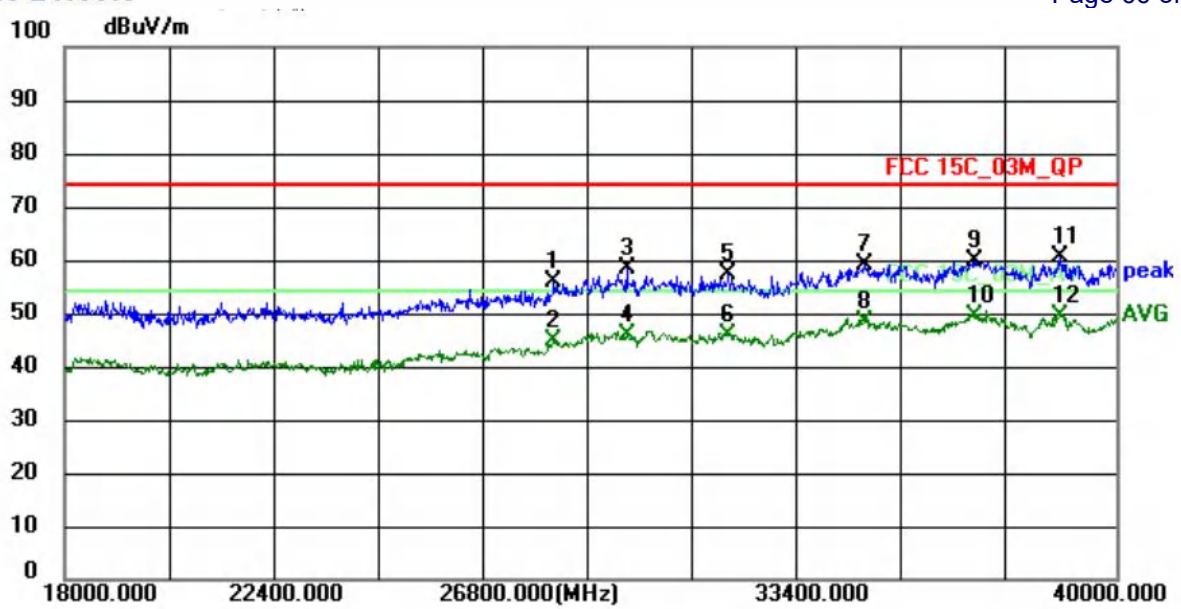


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	27416.0000	47.39	7.10	54.49	74.00	-19.51	peak
2	27416.0000	35.70	7.10	42.80	54.00	-11.20	AVG
3	29572.0000	47.63	9.19	56.82	74.00	-17.18	peak
4	29572.0000	36.41	9.19	45.60	54.00	-8.40	AVG
5	31662.0000	49.93	9.35	59.28	74.00	-14.72	peak
6	31662.0000	38.34	9.35	47.69	54.00	-6.31	AVG
7	34324.0000	47.93	9.73	57.66	74.00	-16.34	peak
8	34324.0000	37.32	9.73	47.05	54.00	-6.95	AVG
9	37844.0000	49.18	9.89	59.07	74.00	-14.93	peak
10	37844.0000	38.77	9.89	48.66	54.00	-5.34	AVG
11	39802.0000	50.90	9.92	60.82	74.00	-13.18	peak
12 *	39802.0000	38.94	9.92	48.86	54.00	-5.14	AVG

Temperature:	25.6℃	Relative Humidity:	47%
Pressure:	101 kPa	Polarization:	Vertical
Test Voltage:	DC 12V	Test mode:	802.11n20 2462MHz

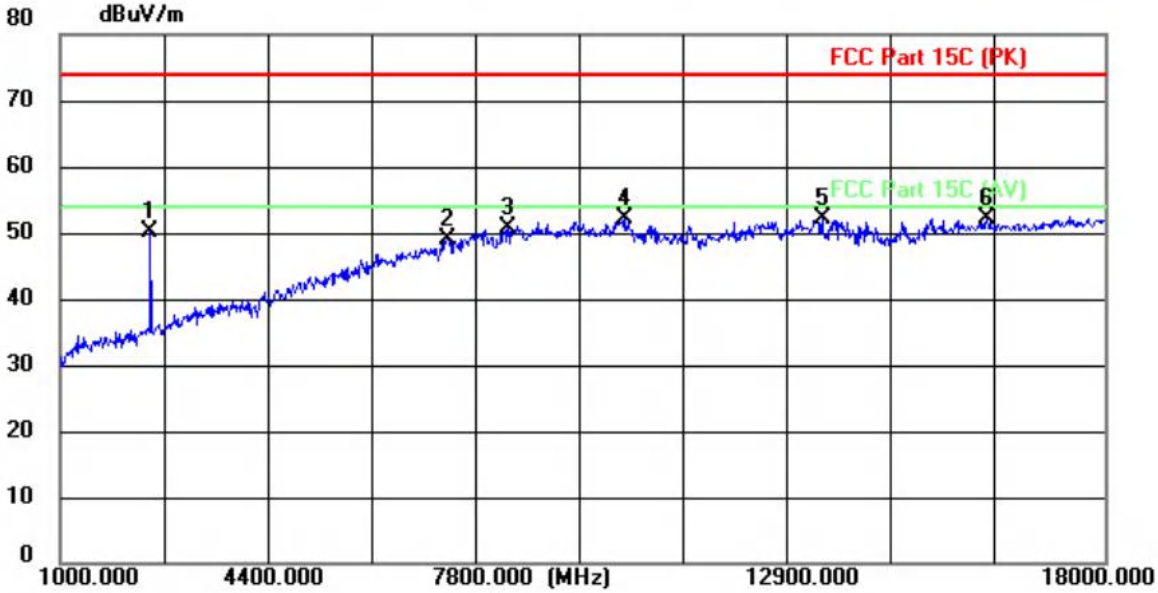


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2462.0000	63.97	-15.32	48.65	74.00	-25.35	peak
2	8446.0000	51.17	0.91	52.08	74.00	-21.92	peak
3	10112.0000	49.77	2.32	52.09	74.00	-21.91	peak
4	12900.0000	46.56	5.78	52.34	74.00	-21.66	peak
5 *	14702.0000	44.46	8.41	52.87	74.00	-21.13	peak
6	16725.0000	41.47	10.61	52.08	74.00	-21.92	peak

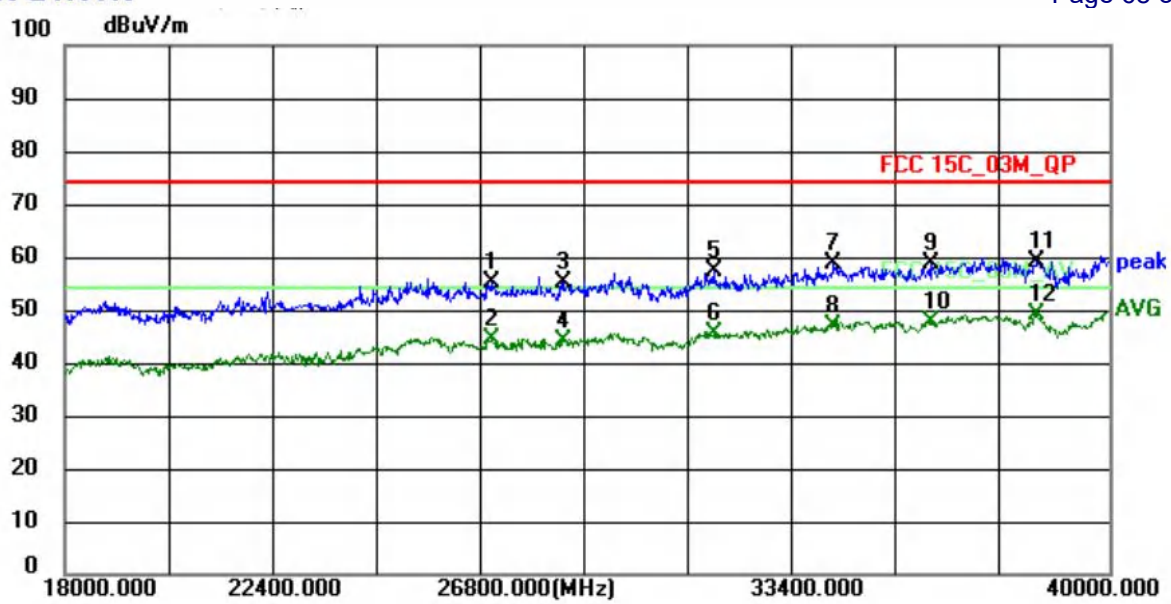


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	28230.0000	47.91	7.97	55.88	74.00	-18.12	peak
2	28230.0000	36.78	7.97	44.75	54.00	-9.25	AVG
3	29770.0000	49.13	9.14	58.27	74.00	-15.73	peak
4	29770.0000	36.83	9.14	45.97	54.00	-8.03	AVG
5	31882.0000	47.78	9.40	57.18	74.00	-16.82	peak
6	31882.0000	36.37	9.40	45.77	54.00	-8.23	AVG
7	34720.0000	49.20	9.95	59.15	74.00	-14.85	peak
8	34720.0000	38.34	9.95	48.29	54.00	-5.71	AVG
9	37052.0000	49.98	9.74	59.72	74.00	-14.28	peak
10	37052.0000	39.60	9.74	49.34	54.00	-4.66	AVG
11	38812.0000	51.56	9.06	60.62	74.00	-13.38	peak
12 *	38812.0000	40.54	9.06	49.60	54.00	-4.40	AVG

Temperature:	25.6℃	Relative Humidity:	47%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 12V	Test mode:	802.11n40 2452MHz

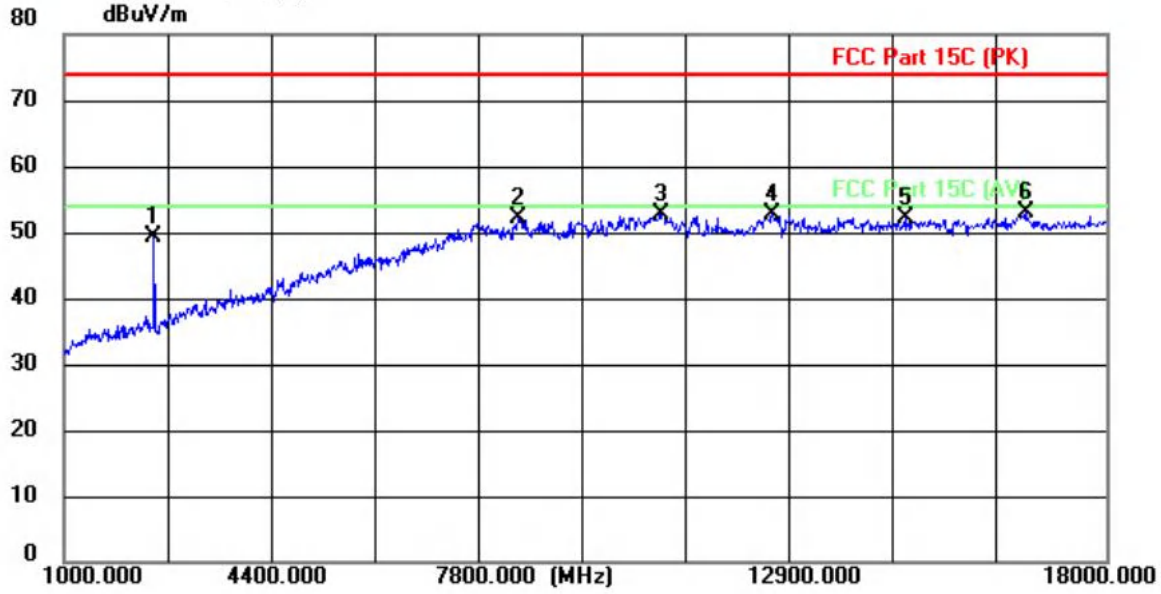


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2462.0000	65.41	-15.32	50.09	74.00	-23.91	peak
2	7307.0000	50.27	-1.22	49.05	74.00	-24.95	peak
3	8276.0000	49.91	0.70	50.61	74.00	-23.39	peak
4	10197.0000	49.72	2.42	52.14	74.00	-21.86	peak
5	13410.0000	45.55	6.53	52.08	74.00	-21.92	peak
6 *	16079.0000	42.19	9.96	52.15	74.00	-21.85	peak

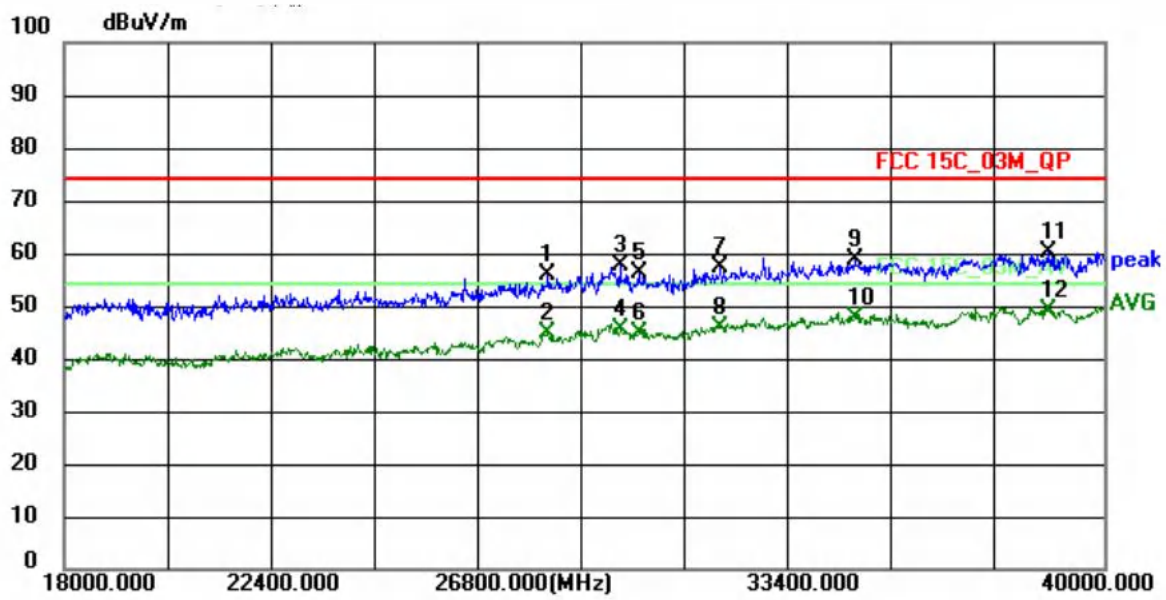


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	26976.0000	48.46	6.84	55.30	74.00	-18.70	peak
2	26976.0000	37.79	6.84	44.63	54.00	-9.37	AVG
3	28516.0000	46.89	8.39	55.28	74.00	-18.72	peak
4	28516.0000	35.80	8.39	44.19	54.00	-9.81	AVG
5	31662.0000	47.93	9.35	57.28	74.00	-16.72	peak
6	31662.0000	36.34	9.35	45.69	54.00	-8.31	AVG
7	34192.0000	48.99	9.66	58.65	74.00	-15.35	peak
8	34192.0000	37.47	9.66	47.13	54.00	-6.87	AVG
9	36260.0000	48.85	9.85	58.70	74.00	-15.30	peak
10	36260.0000	37.78	9.85	47.63	54.00	-6.37	AVG
11	38482.0000	50.20	9.05	59.25	74.00	-14.75	peak
12 *	38482.0000	40.13	9.05	49.18	54.00	-4.82	AVG

Temperature:	25.6℃	Relative Humidity:	47%
Pressure:	101 kPa	Polarization:	Vertical
Test Voltage:	DC 12V	Test mode:	802.11n40 2452MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2462.0000	64.51	-15.32	49.19	74.00	-24.81	peak
2	8412.0000	51.23	0.87	52.10	74.00	-21.90	peak
3	10758.0000	49.78	3.06	52.84	74.00	-21.16	peak
4	12543.0000	47.52	5.27	52.79	74.00	-21.21	peak
5	14719.0000	43.58	8.44	52.02	74.00	-21.98	peak
6 *	16708.0000	42.30	10.60	52.90	74.00	-21.10	peak



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	28230.0000	47.91	7.97	55.88	74.00	-18.12	peak
2	28230.0000	36.78	7.97	44.75	54.00	-9.25	AVG
3	29770.0000	48.63	9.14	57.77	74.00	-16.23	peak
4	29770.0000	36.33	9.14	45.47	54.00	-8.53	AVG
5	30166.0000	47.06	9.05	56.11	74.00	-17.89	peak
6	30166.0000	35.78	9.05	44.83	54.00	-9.17	AVG
7	31882.0000	47.78	9.40	57.18	74.00	-16.82	peak
8	31882.0000	36.37	9.40	45.77	54.00	-8.23	AVG
9	34720.0000	48.70	9.95	58.65	74.00	-15.35	peak
10	34720.0000	37.84	9.95	47.79	54.00	-6.21	AVG
11	38812.0000	51.06	9.06	60.12	74.00	-13.88	peak
12 *	38812.0000	40.04	9.06	49.10	54.00	-4.90	AVG

Remark:
1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
   Margin= Emission Level - Limit

5. RADIATED BAND EMISSIONMEASUREMENT

5.1 TEST REQUIREMENT:

Test Requirement:	FCC Part15 C Section 15.209 and 15.205
Test Method:	ANSI C63.10: 2013
Test Frequency Range:	All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.
Test site:	Measurement Distance: 3m
Receiver setup:	

Frequency	Detector	RBW	VBW	Value
Above 1GHz	Peak	1MHz	3MHz	Peak
	Average	1MHz	3MHz	Average

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C.

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

5.2 TEST PROCEDURE

Above 1GHz test procedure as below:

a. 1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. 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 antenna height 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 rota table was turned from 0 degrees to 360 degrees to find the maximum reading.

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

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dBmargin would be re-tested one by one using peak, quasi-peak or average method as specified and then reportedin a data sheet.

g. Test the EUT in the lowest channel,the Highest channel

Note:

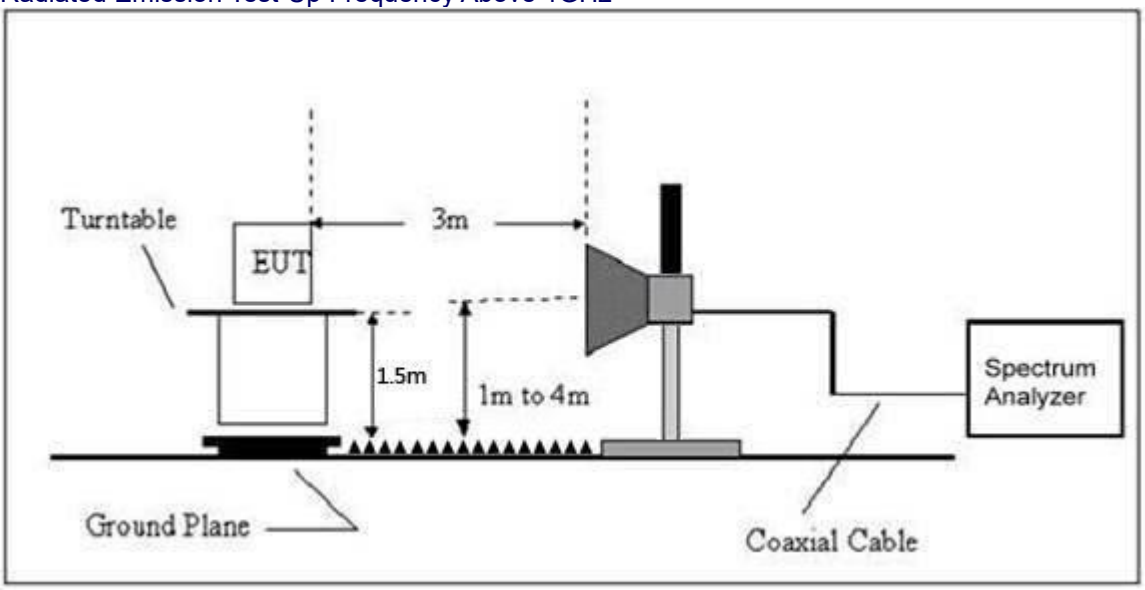
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

5.3 DEVIATION FROM TEST STANDARD

No deviation

5.4 TEST SETUP

Radiated Emission Test-Up Frequency Above 1GHz

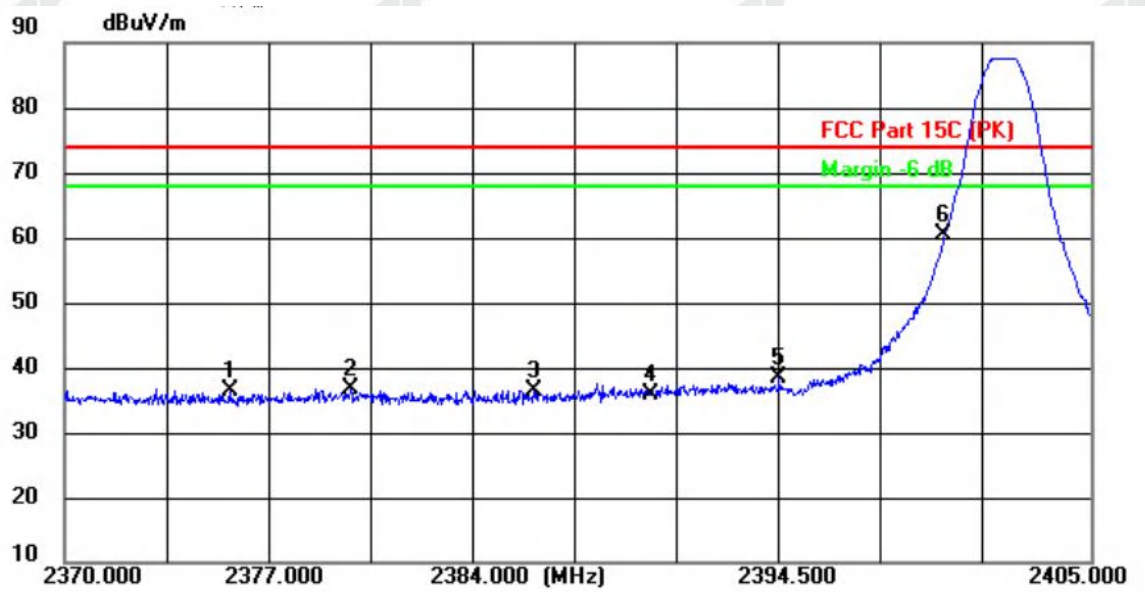


5.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

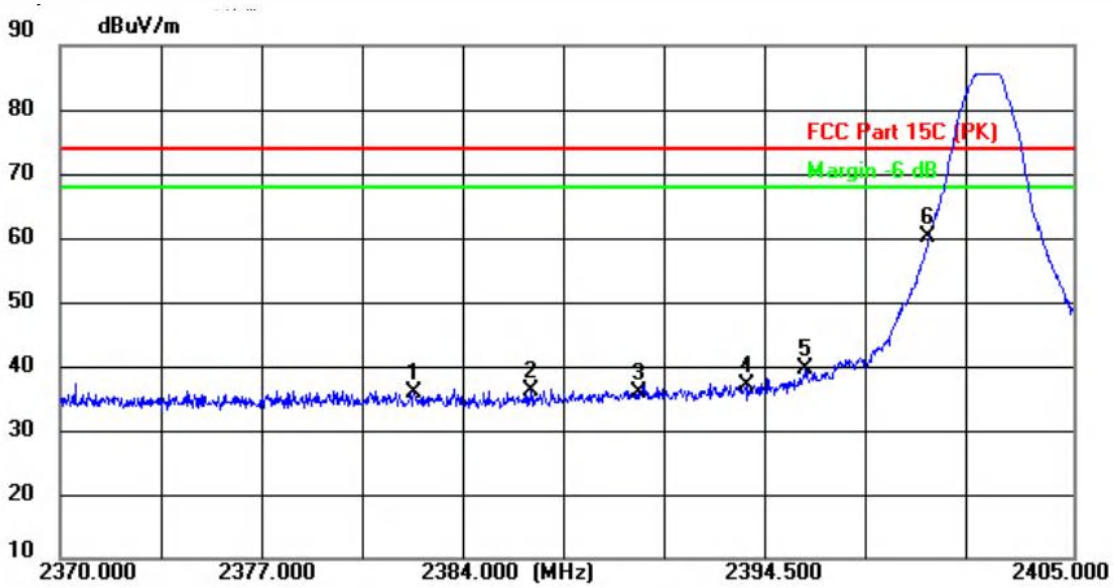
5.6 TEST RESULT

Temperature:	25.6℃	Relative Humidity:	47%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 12V	Test mode:	802.11b 2412 MHz



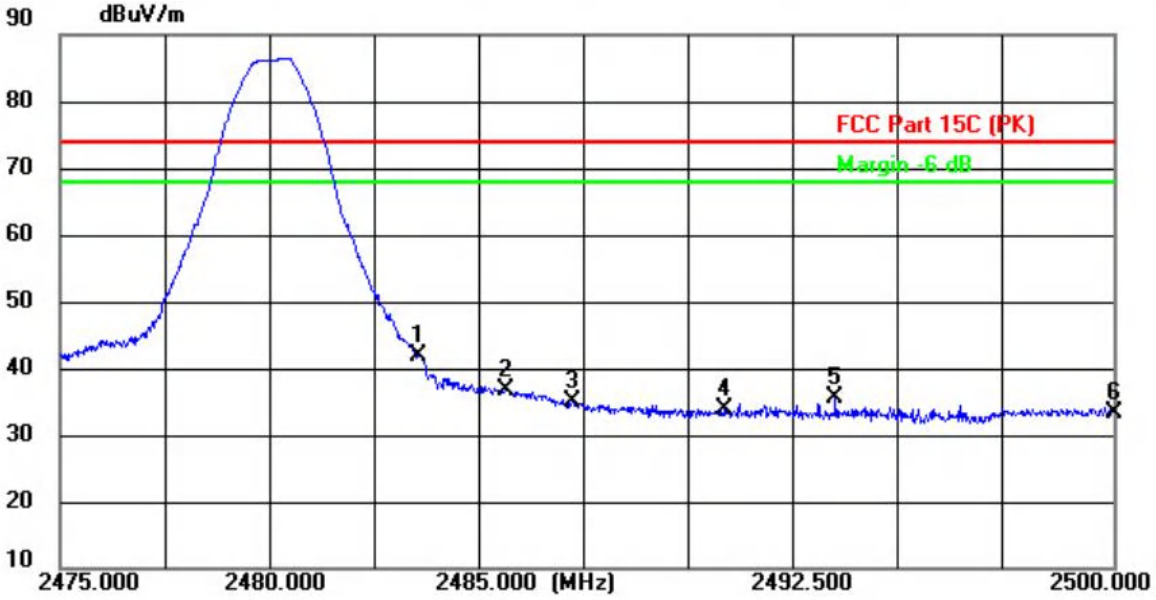
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2375.6350	42.46	-5.98	36.48	74.00	-37.52	peak
2	2379.7649	42.67	-5.97	36.70	74.00	-37.30	peak
3	2386.0300	42.51	-5.97	36.54	74.00	-37.46	peak
4	2390.0000	41.74	-5.97	35.77	74.00	-38.23	peak
5	2394.3600	44.31	-5.96	38.35	74.00	-35.65	peak
6 *	2400.0000	66.35	-5.95	60.40	74.00	-13.60	peak

Temperature:	25.6℃	Relative Humidity:	47%
Pressure:	101 kPa	Polarization:	Vertical
Test Voltage:	DC 12V	Test mode:	802.11b 2412 MHz



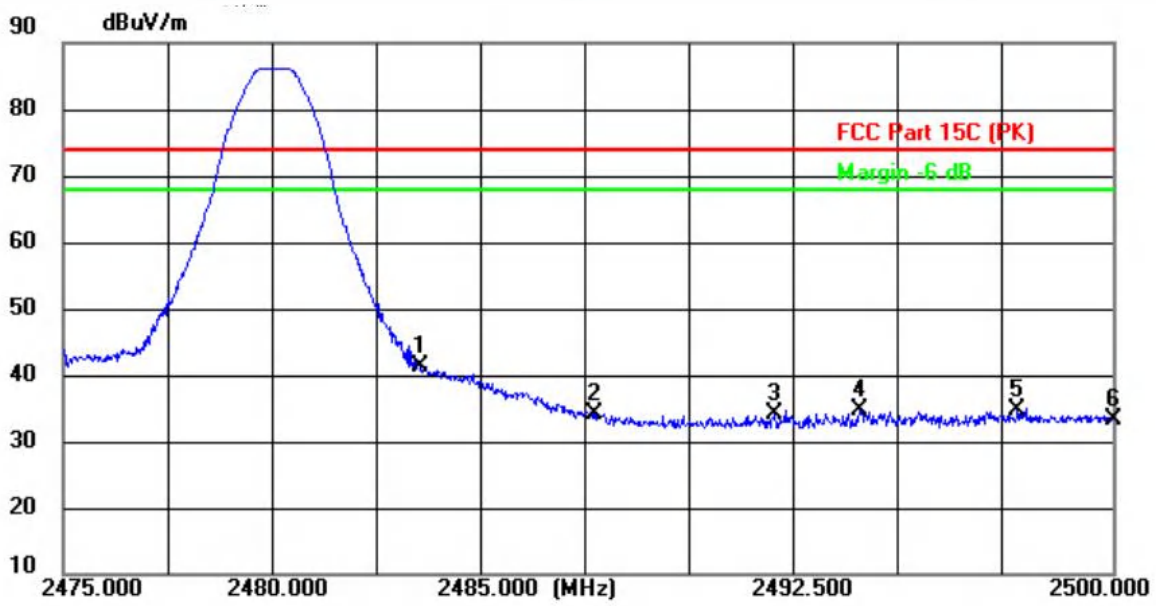
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2382.2150	41.89	-5.96	35.93	74.00	-38.07	peak
2	2386.2400	42.00	-5.97	36.03	74.00	-37.97	peak
3	2390.0000	41.83	-5.97	35.86	74.00	-38.14	peak
4	2393.6950	43.05	-5.96	37.09	74.00	-36.91	peak
5	2395.7600	45.50	-5.95	39.55	74.00	-34.45	peak
6 *	2400.0000	66.08	-5.95	60.13	74.00	-13.87	peak

Temperature:	25.6℃	Relative Humidity:	47%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 12V	Test mode:	802.11b 2462 MHz



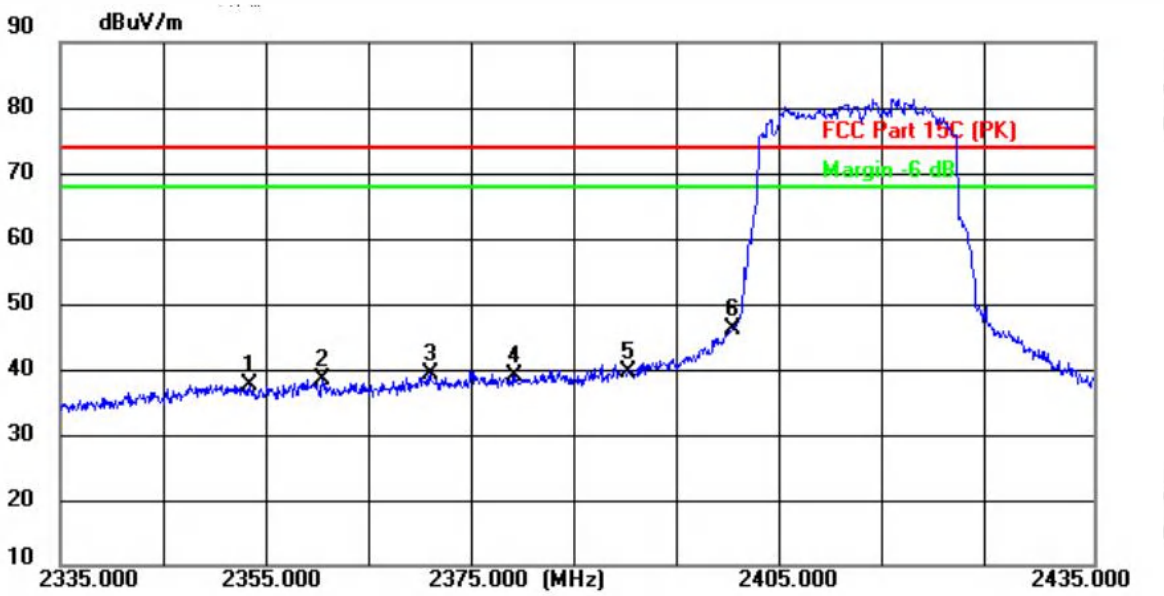
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	2483.5000	47.73	-5.85	41.88	74.00	-32.12	peak
2	2485.6000	42.61	-5.85	36.76	74.00	-37.24	peak
3	2487.1750	40.91	-5.84	35.07	74.00	-38.93	peak
4	2490.7500	39.69	-5.84	33.85	74.00	-40.15	peak
5	2493.4000	41.38	-5.84	35.54	74.00	-38.46	peak
6	2500.0000	39.03	-5.83	33.20	74.00	-40.80	peak

Temperature:	25.6℃	Relative Humidity:	47%
Pressure:	101 kPa	Polarization:	Vertical
Test Voltage:	DC 12V	Test mode:	802.11b 2462 MHz



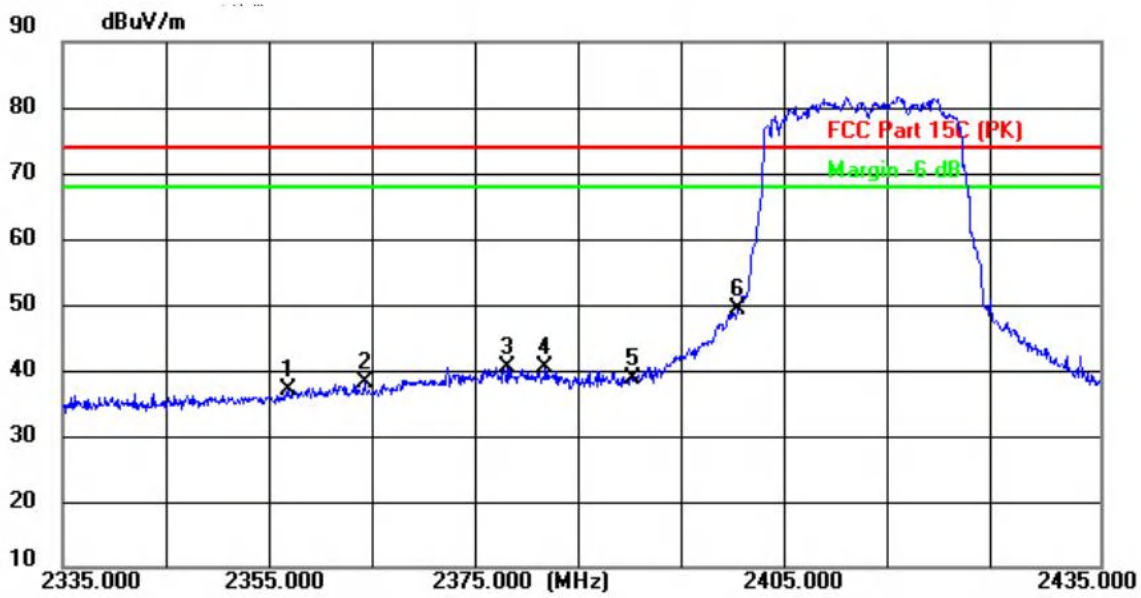
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	2483.5000	47.19	-5.85	41.34	74.00	-32.66	peak
2	2487.6500	40.05	-5.84	34.21	74.00	-39.79	peak
3	2491.9500	39.98	-5.84	34.14	74.00	-39.86	peak
4	2493.9750	40.53	-5.84	34.69	74.00	-39.31	peak
5	2497.7250	40.62	-5.83	34.79	74.00	-39.21	peak
6	2500.0000	39.03	-5.83	33.20	74.00	-40.80	peak

Temperature:	25.6℃	Relative Humidity:	47%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 12V	Test mode:	802.11g 2412MHz



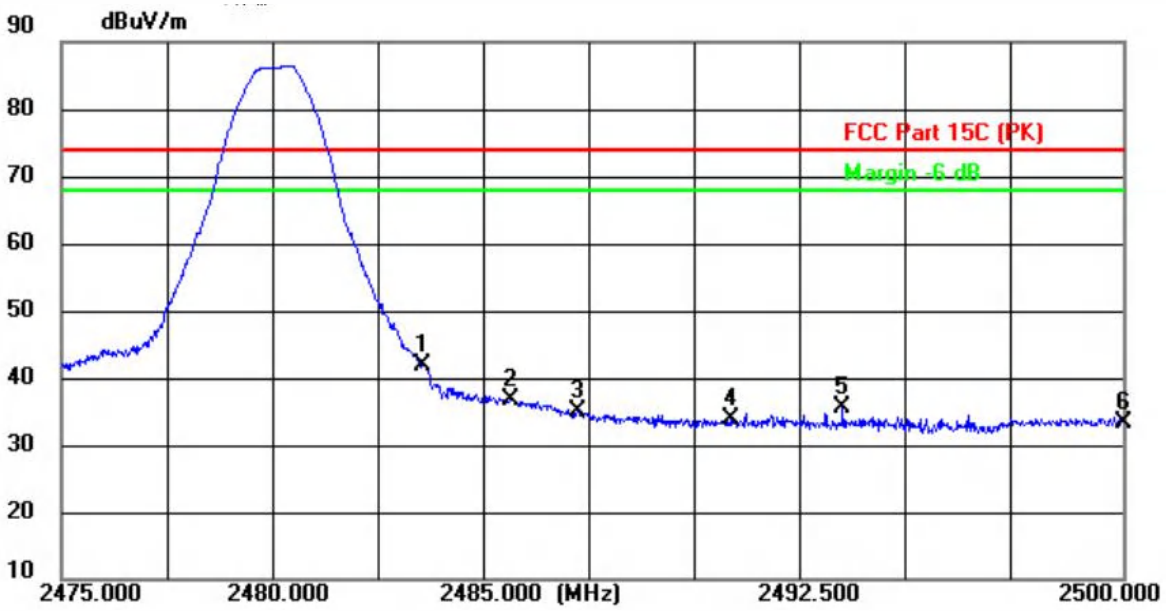
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2353.4000	43.68	-6.01	37.67	74.00	-36.33	peak
2	2360.3000	44.30	-6.00	38.30	74.00	-35.70	peak
3	2370.8000	45.21	-5.98	39.23	74.00	-34.77	peak
4	2378.9000	45.06	-5.97	39.09	74.00	-34.91	peak
5	2390.0000	45.55	-5.97	39.58	74.00	-34.42	peak
6 *	2400.0000	52.20	-5.95	46.25	74.00	-27.75	peak

Temperature:	25.6℃	Relative Humidity:	47%
Pressure:	101 kPa	Polarization:	Vertical
Test Voltage:	DC 12V	Test mode:	802.11g 2412MHz



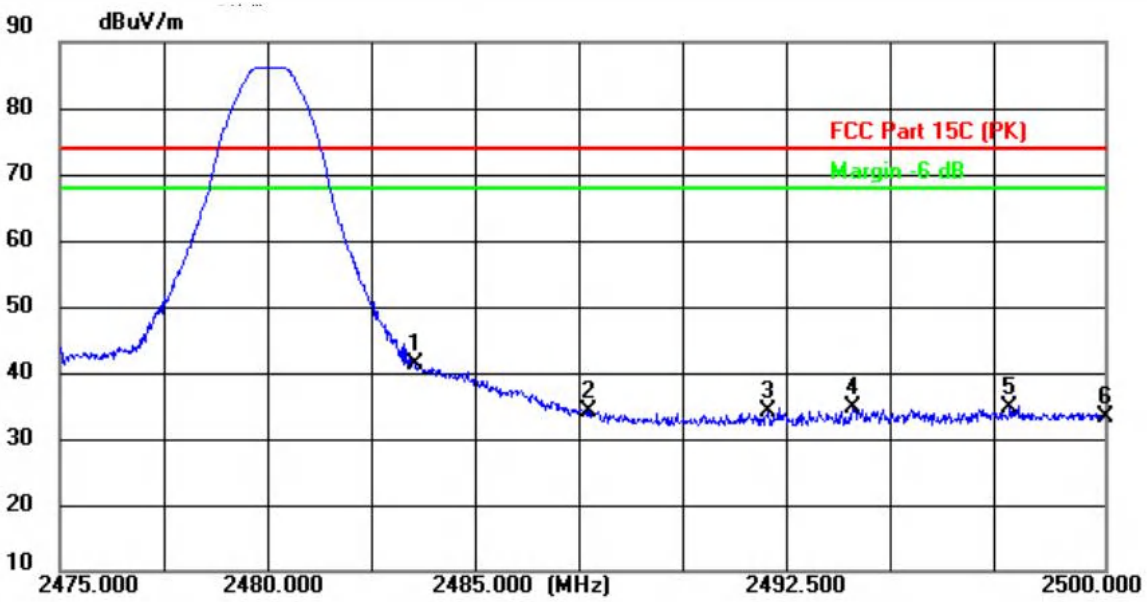
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2356.7000	42.89	-6.01	36.88	74.00	-37.12	peak
2	2364.1000	44.04	-5.99	38.05	74.00	-35.95	peak
3	2377.8000	46.51	-5.97	40.54	74.00	-33.46	peak
4	2381.5000	46.32	-5.97	40.35	74.00	-33.65	peak
5	2390.0000	44.76	-5.97	38.79	74.00	-35.21	peak
6 *	2400.0000	55.19	-5.95	49.24	74.00	-24.76	peak

Temperature:	25.6℃	Relative Humidity:	47%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 12V	Test mode:	802.11g 2462MHz



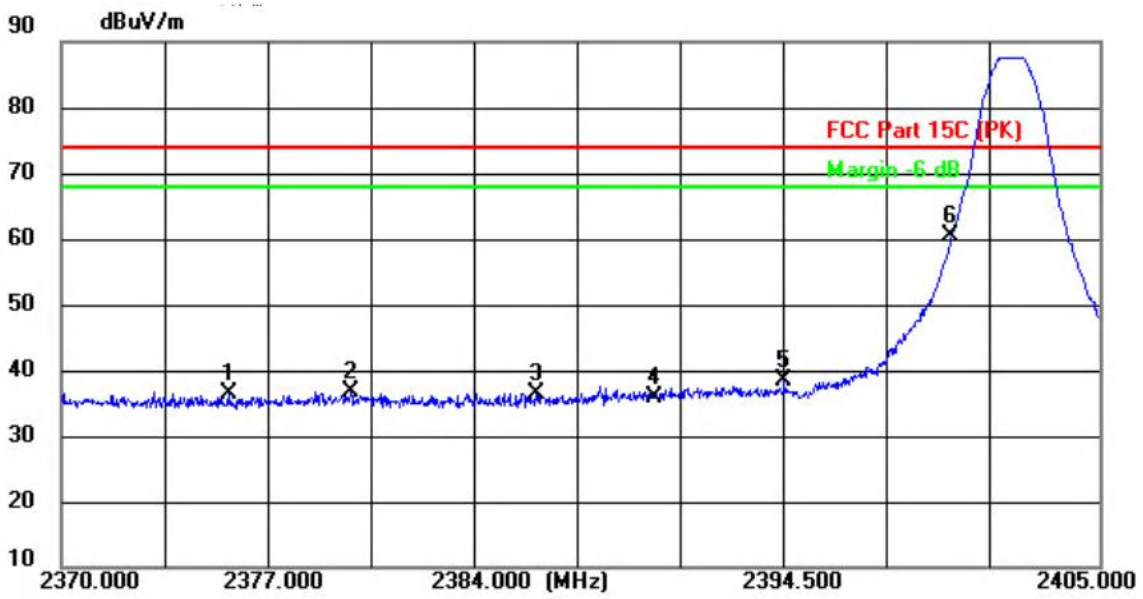
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	2483.5000	47.73	-5.85	41.88	74.00	-32.12	peak
2	2485.6000	42.61	-5.85	36.76	74.00	-37.24	peak
3	2487.1750	40.91	-5.84	35.07	74.00	-38.93	peak
4	2490.7500	39.69	-5.84	33.85	74.00	-40.15	peak
5	2493.4000	41.38	-5.84	35.54	74.00	-38.46	peak
6	2500.0000	39.03	-5.83	33.20	74.00	-40.80	peak

Temperature:	25.6℃	Relative Humidity:	47%
Pressure:	101 kPa	Polarization:	Vertical
Test Voltage:	DC 12V	Test mode:	802.11g 2462MHz



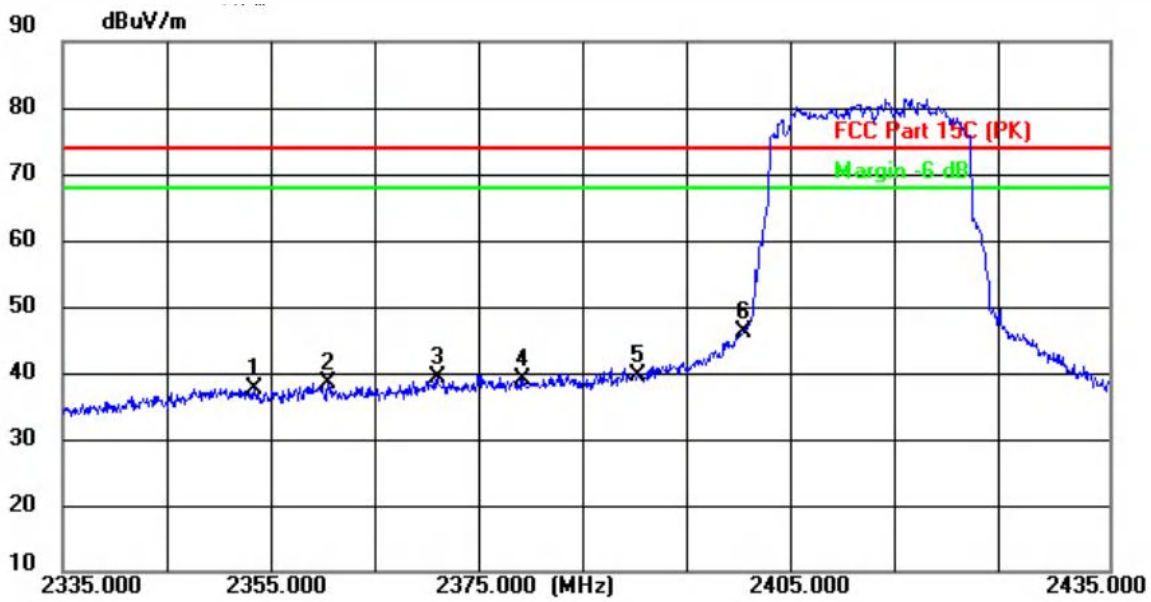
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	2483.5000	47.19	-5.85	41.34	74.00	-32.66	peak
2	2487.6500	40.05	-5.84	34.21	74.00	-39.79	peak
3	2491.9500	39.98	-5.84	34.14	74.00	-39.86	peak
4	2493.9750	40.53	-5.84	34.69	74.00	-39.31	peak
5	2497.7250	40.62	-5.83	34.79	74.00	-39.21	peak
6	2500.0000	39.03	-5.83	33.20	74.00	-40.80	peak

Temperature:	25.6℃	Relative Humidity:	47%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 12V	Test mode:	802.11n20 2412MHz



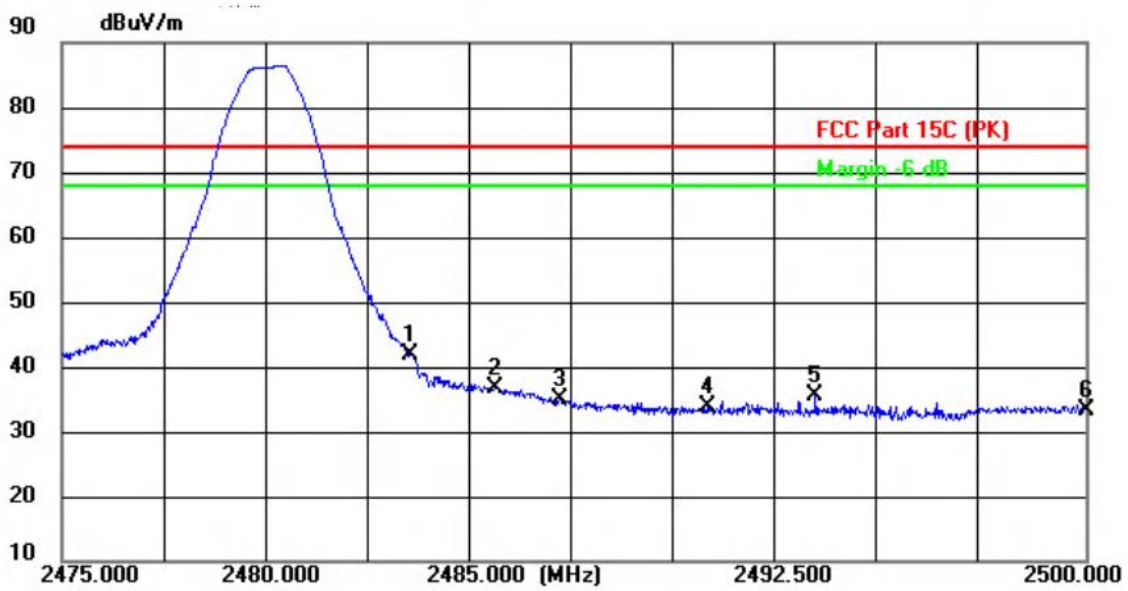
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2375.6350	42.46	-5.98	36.48	74.00	-37.52	peak
2	2379.7649	42.67	-5.97	36.70	74.00	-37.30	peak
3	2386.0300	42.51	-5.97	36.54	74.00	-37.46	peak
4	2390.0000	41.74	-5.97	35.77	74.00	-38.23	peak
5	2394.3600	44.31	-5.96	38.35	74.00	-35.65	peak
6 *	2400.0000	66.35	-5.95	60.40	74.00	-13.60	peak

Temperature:	25.6℃	Relative Humidity:	47%
Pressure:	101 kPa	Polarization:	Vertical
Test Voltage:	DC 12V	Test mode:	802.11n20 2412MHz



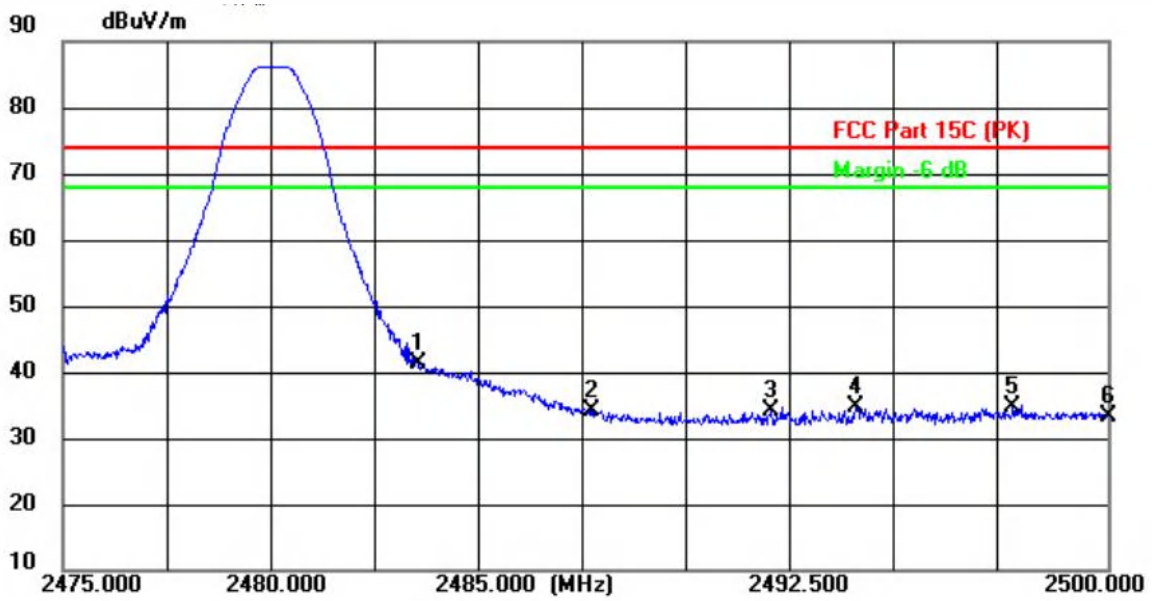
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2353.4000	43.68	-6.01	37.67	74.00	-36.33	peak
2	2360.3000	44.30	-6.00	38.30	74.00	-35.70	peak
3	2370.8000	45.21	-5.98	39.23	74.00	-34.77	peak
4	2378.9000	45.06	-5.97	39.09	74.00	-34.91	peak
5	2390.0000	45.55	-5.97	39.58	74.00	-34.42	peak
6 *	2400.0000	52.20	-5.95	46.25	74.00	-27.75	peak

Temperature:	25.6℃	Relative Humidity:	47%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 12V	Test mode:	802.11n20 2462MHz



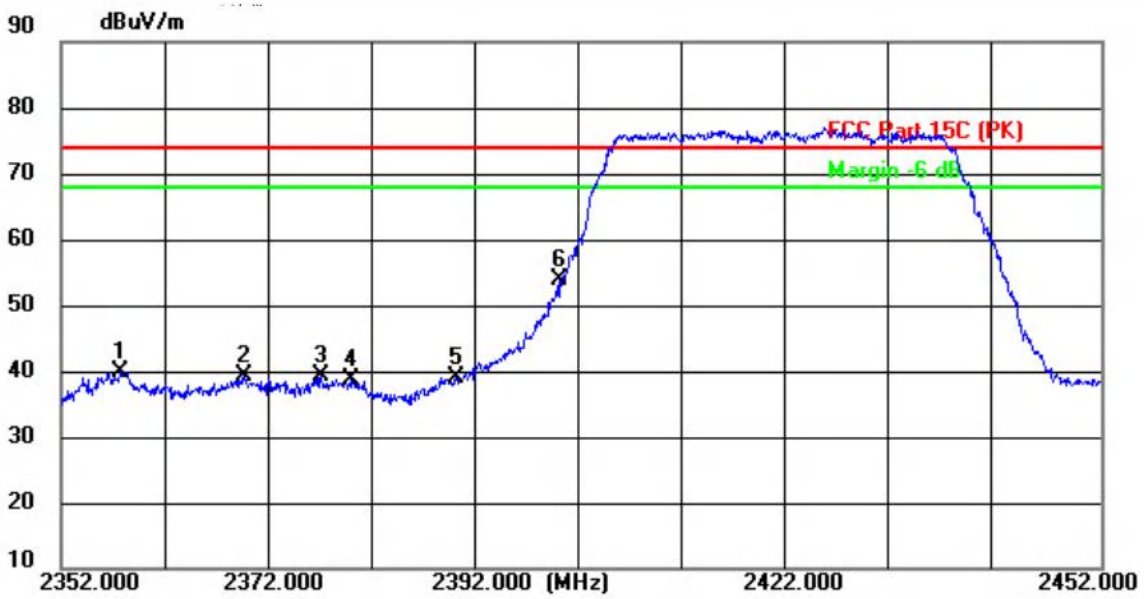
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	2483.5000	47.73	-5.85	41.88	74.00	-32.12	peak
2	2485.6000	42.61	-5.85	36.76	74.00	-37.24	peak
3	2487.1750	40.91	-5.84	35.07	74.00	-38.93	peak
4	2490.7500	39.69	-5.84	33.85	74.00	-40.15	peak
5	2493.4000	41.38	-5.84	35.54	74.00	-38.46	peak
6	2500.0000	39.03	-5.83	33.20	74.00	-40.80	peak

Temperature:	25.6℃	Relative Humidity:	47%
Pressure:	101 kPa	Polarization:	Vertical
Test Voltage:	DC 12V	Test mode:	802.11n20 2462MHz



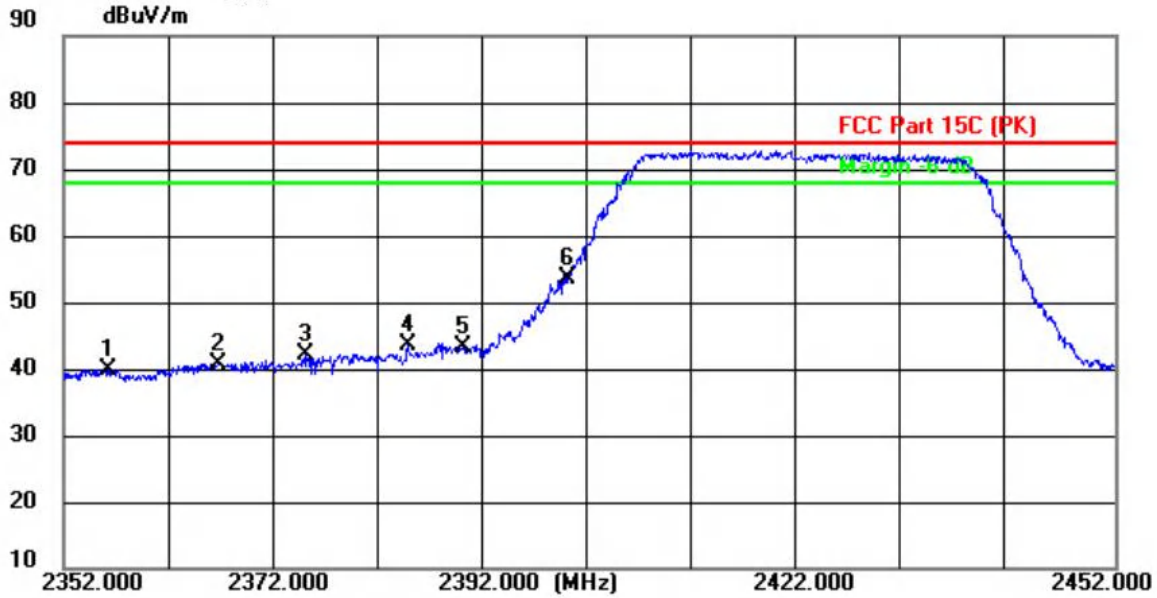
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	2483.5000	47.19	-5.85	41.34	74.00	-32.66	peak
2	2487.6500	40.05	-5.84	34.21	74.00	-39.79	peak
3	2491.9500	39.98	-5.84	34.14	74.00	-39.86	peak
4	2493.9750	40.53	-5.84	34.69	74.00	-39.31	peak
5	2497.7250	40.62	-5.83	34.79	74.00	-39.21	peak
6	2500.0000	39.03	-5.83	33.20	74.00	-40.80	peak

Temperature:	25.6℃	Relative Humidity:	47%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 12V	Test mode:	802.11n40 2422MHz



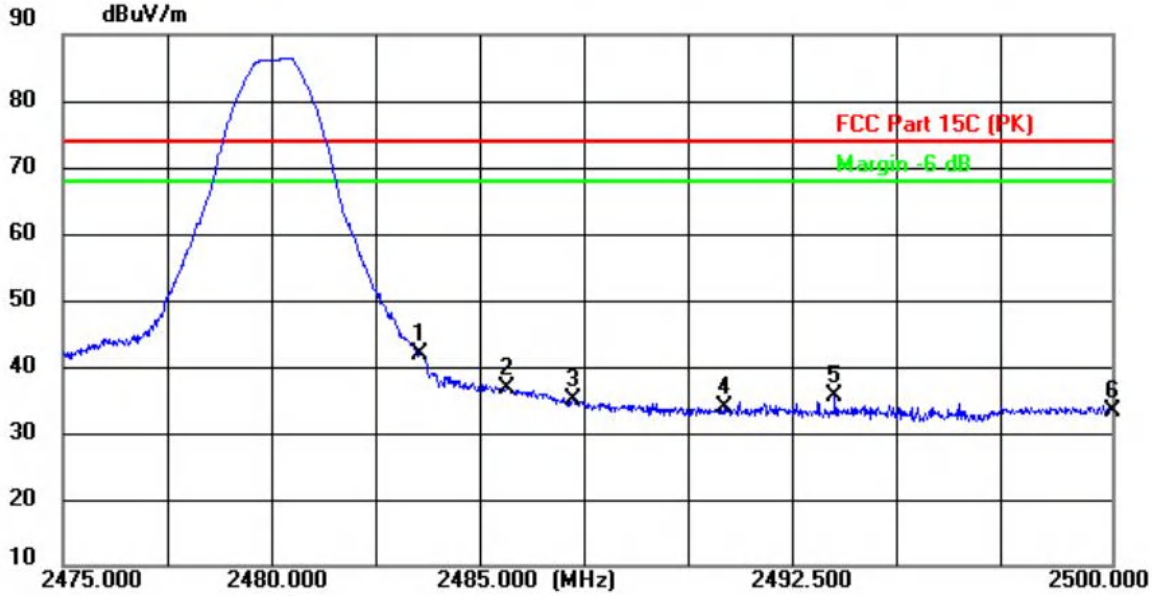
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2357.6000	55.63	-15.73	39.90	74.00	-34.10	peak
2	2369.6000	54.86	-15.69	39.17	74.00	-34.83	peak
3	2377.0000	55.03	-15.66	39.37	74.00	-34.63	peak
4	2379.8000	54.46	-15.64	38.82	74.00	-35.18	peak
5	2390.0000	54.59	-15.61	38.98	74.00	-35.02	peak
6 *	2400.0000	69.31	-15.57	53.74	74.00	-20.26	peak

Temperature:	25.6℃	Relative Humidity:	47%
Pressure:	101 kPa	Polarization:	Vertical
Test Voltage:	DC 12V	Test mode:	802.11n40 2422MHz



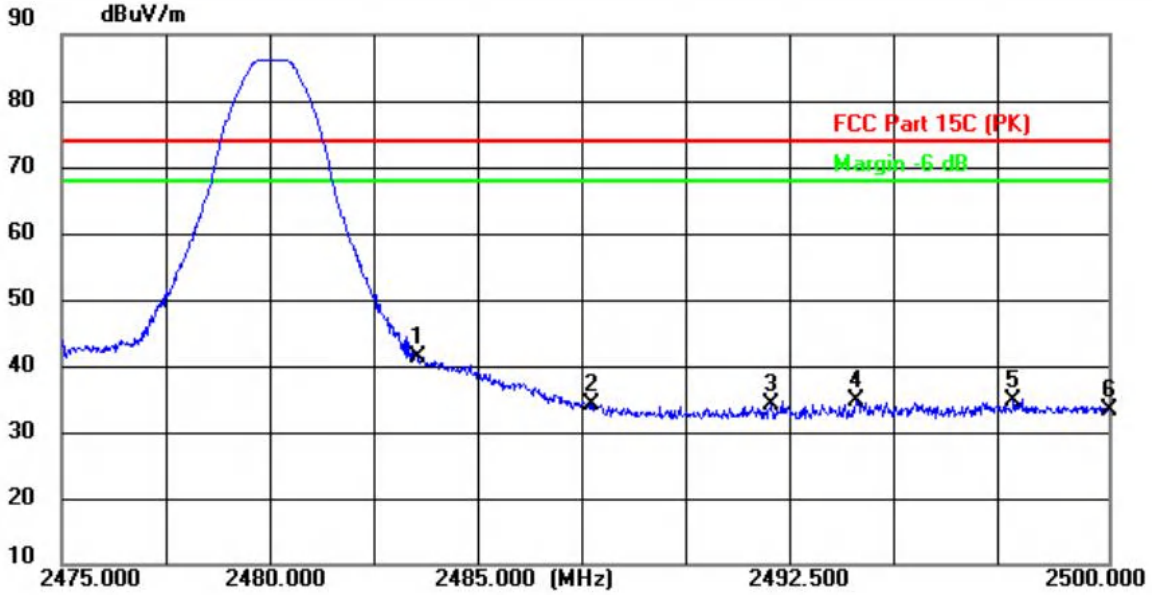
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2356.2000	55.61	-15.74	39.87	74.00	-34.13	peak
2	2366.8000	56.48	-15.69	40.79	74.00	-33.21	peak
3	2375.1000	57.71	-15.66	42.05	74.00	-31.95	peak
4	2384.7000	59.31	-15.62	43.69	74.00	-30.31	peak
5	2390.0000	58.89	-15.61	43.28	74.00	-30.72	peak
6 *	2400.0000	69.25	-15.57	53.68	74.00	-20.32	peak

Temperature:	25.6℃	Relative Humidity:	47%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 12V	Test mode:	802.11n20 2462MHz



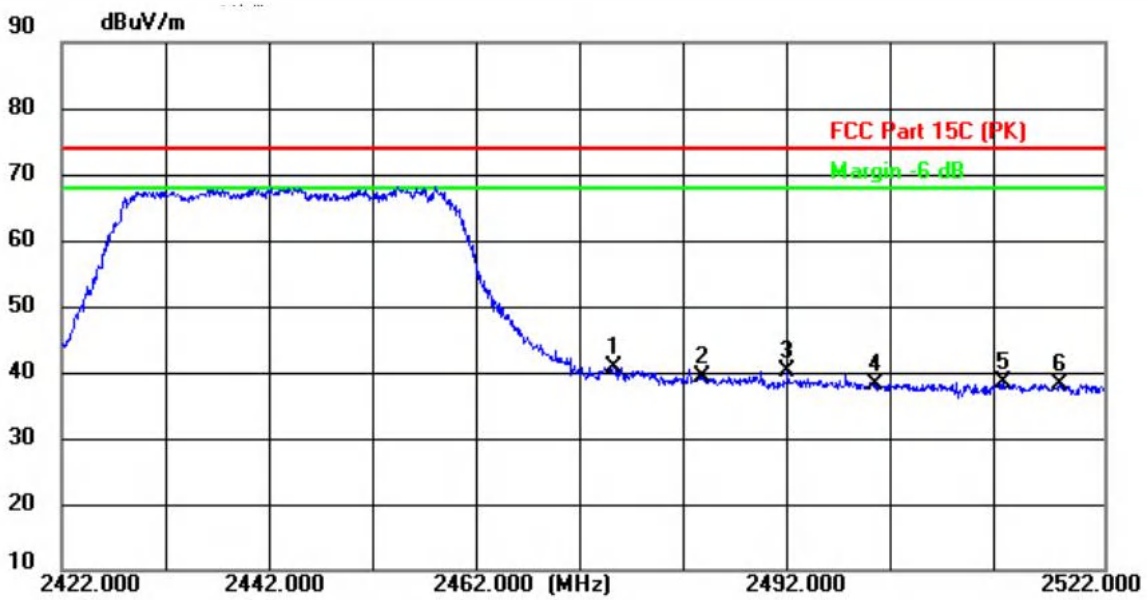
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	2483.5000	47.73	-5.85	41.88	74.00	-32.12	peak
2	2485.6000	42.61	-5.85	36.76	74.00	-37.24	peak
3	2487.1750	40.91	-5.84	35.07	74.00	-38.93	peak
4	2490.7500	39.69	-5.84	33.85	74.00	-40.15	peak
5	2493.4000	41.38	-5.84	35.54	74.00	-38.46	peak
6	2500.0000	39.03	-5.83	33.20	74.00	-40.80	peak

Temperature:	25.6℃	Relative Humidity:	47%
Pressure:	101 kPa	Polarization:	Vertical
Test Voltage:	DC 12V	Test mode:	802.11n20 2462MHz



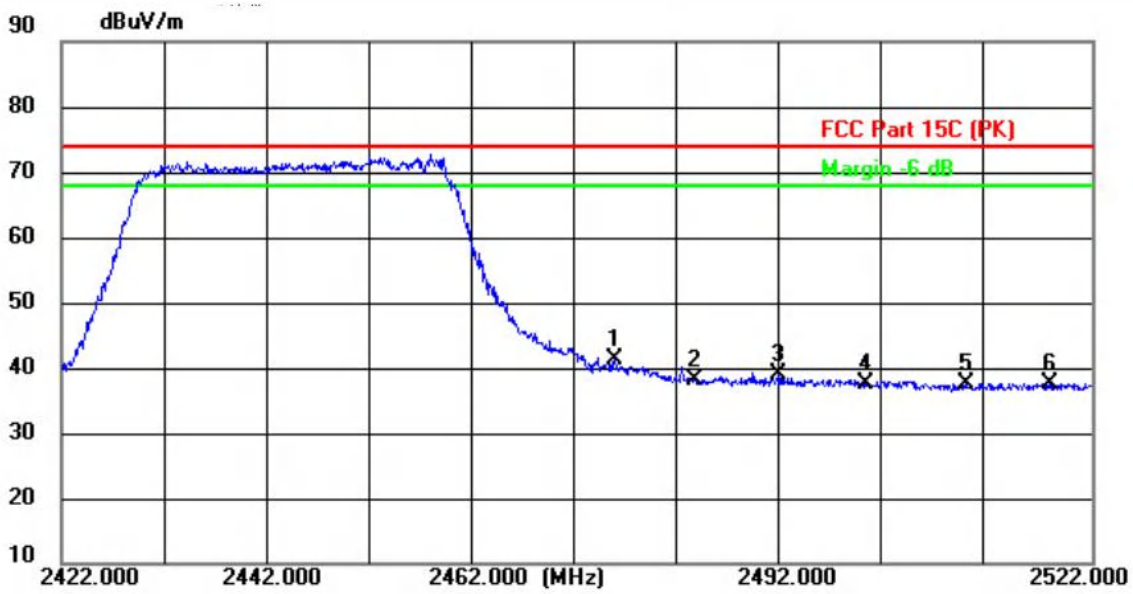
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	2483.5000	47.19	-5.85	41.34	74.00	-32.66	peak
2	2487.6500	40.05	-5.84	34.21	74.00	-39.79	peak
3	2491.9500	39.98	-5.84	34.14	74.00	-39.86	peak
4	2493.9750	40.53	-5.84	34.69	74.00	-39.31	peak
5	2497.7250	40.62	-5.83	34.79	74.00	-39.21	peak
6	2500.0000	39.03	-5.83	33.20	74.00	-40.80	peak

Temperature:	25.6℃	Relative Humidity:	47%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 12V	Test mode:	802.11n40 2452MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	2474.9000	56.03	-15.28	40.75	74.00	-33.25	peak
2	2483.5000	54.46	-15.24	39.22	74.00	-34.78	peak
3	2491.6000	55.24	-15.21	40.03	74.00	-33.97	peak
4	2500.0000	53.31	-15.18	38.13	74.00	-35.87	peak
5	2512.3000	53.45	-15.11	38.34	74.00	-35.66	peak
6	2517.7000	53.26	-15.09	38.17	74.00	-35.83	peak

Temperature:	25.6℃	Relative Humidity:	47%
Pressure:	101 kPa	Polarization:	Vertical
Test Voltage:	DC 12V	Test mode:	802.11n40 2452MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	2475.7000	56.51	-15.27	41.24	74.00	-32.76	peak
2	2483.5000	53.46	-15.24	38.22	74.00	-35.78	peak
3	2491.6000	54.24	-15.21	39.03	74.00	-34.97	peak
4	2500.0000	52.81	-15.18	37.63	74.00	-36.37	peak
5	2509.8000	52.59	-15.12	37.47	74.00	-36.53	peak
6	2517.9000	52.56	-15.09	37.47	74.00	-36.53	peak

Remark:
1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
   Margin= Emission Level - Limit

6. POWER SPECTRAL DENSITY TEST

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB558074 D0115.247 Meas Guidancev05r02

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247	Power Spectral Density	8dBm/3kHz	2400-2483.5	PASS

6.2 TEST PROCEDURE

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to: 3 kHz ≤ RBW ≤ 100 kHz.
4. Set the VBW ≥ 3 x RBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP

6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

6.6 TEST RESULT

Temperature：	25.9℃	Relative Humidity：	52%
Pressure：	101kPa	Test Voltage ：	DC 12 V

Please refer to APPENDIX WIFI

7. CHANNEL BANDWIDTH

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	KDB558074 D0115.247 Meas Guidancev05r02

7.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS

7.2 TEST PROCEDURE

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

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP

7.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

7.6 TEST RESULT

Temperature :	25.8℃	Relative Humidity :	52%
Pressure :	101kPa	Test Voltage :	DC 12 V
Test Mode :	TX Mode		

Please refer to APPENDIX WIFI

8. OUTPUT POWER TEST

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	KDB558074 D0115.247 Meas Guidancev05r02

8.1 APPLIED PROCEDURES/LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Output Power	1 watt or 30dBm	2400-2483.5	PASS

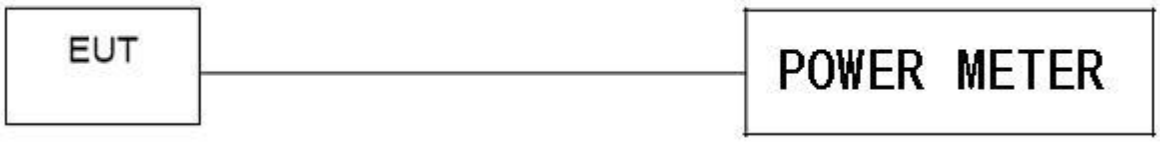
8.2 TEST PROCEDURE

a. The EUT was directly connected to the Spectrum analyzer

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP



8.5 EUT OPERATION CONDITIONS

1. Connected the EUT's antenna port to peak power meter

8.6 TEST RESULT

Temperature :	25.3℃	Relative Humidity :	55%
Pressure :	101kPa	Test Voltage :	DC 12 V

Please refer to APPENDIX WIFI

9. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB558074 D0115.247 Meas Guidancev05r02

9.1 APPLICABLE STANDARD

in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in 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 in15.209(a).

9.2 TEST PROCEDURE

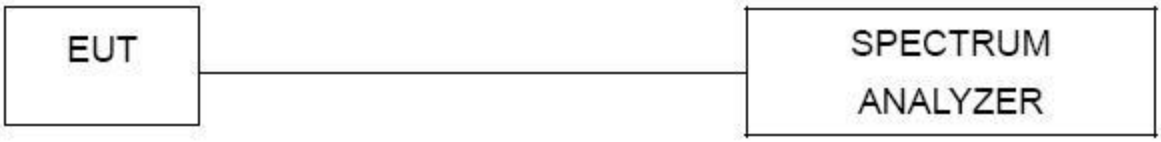
Using the following spectrum analyzer setting:

A) Set the RBW = 100KHz.
B) Set the VBW = 300KHz.
C) Sweep time = auto couple.
D) Detector function = peak.
E) Trace mode = max hold.
F) Allow trace to fully stabilize.

9.3 DEVIATION FROM STANDARD

No deviation.

9.4 TEST SETUP



9.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

9.6 TEST RESULTS

Please refer to APPENDIX WIFI

10. ANTENNA REQUIREMENT

Standard requirement:	FCC Part15 C Section 15.203 /247(b)(4)
15.203 requirement: 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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.247(b) (4) requirement: (4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. 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.	
EUT Antenna:	
The antenna is FPC Antenna, the best case gain of the antenna is 1.75dBi, reference to the appendix II for details	

11. APPENDIX WIFI

11.1 Duty Cycle

Mode	Frequency (MHz)	T_{on} ms	T_{otal} ms	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
b	2412	12.41	12.82	96.80	0.14	0.08
b	2437	12.42	12.81	96.96	0.13	0.08
b	2462	12.42	12.78	97.18	0.12	0.08
g	2412	2.06	2.19	94.06	0.27	0.49
g	2437	2.07	2.24	92.41	0.34	0.48
g	2462	2.07	2.21	93.67	0.28	0.48
n20	2412	1.92	2.02	95.05	0.22	0.52
n20	2437	1.84	2.04	90.20	0.45	0.54
n20	2462	1.92	2.09	91.87	0.37	0.52
n40	2422	0.95	1.15	82.61	0.83	1.05
n40	2437	0.94	1.11	84.68	0.72	1.06
n40	2452	0.94	1.18	79.66	0.99	1.06

Note:
1. Duty Cycle = T_{on} / T_{otal}
2.Correction Factor = 10 log (1/ Duty Cycle).
3.1/T=1/T_{on}