

FCC Test Report

Product Name : Electric Vehicle (EV) Supply Equipment
Brand Name : DELTA ELECTRONICS, INC.
Model No. : EIAW-U11KSSU7A04, EIAW-U19KSSU7A04
FCC ID : H79EIAWU19KSS

Applicant : Delta Electronics Incorporated
Address : 3 Tungyuan Road Chungli Industrial Zone, Taoyuan
County, 32063, Taiwan

Date of Receipt : Oct. 19, 2021
Issued Date : Dec. 23, 2021
Report No. : 21A0519R-RFUSWL2V01-A
Report Version : V1.0



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by TAF or any agency of the government.

Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

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Test Report Certification



Product Name : Electric Vehicle (EV) Supply Equipment
Applicant : Delta Electronics Incorporated
Address : 3 Tungyuan Road Chungli Industrial Zone, Taoyuan County,
32063, Taiwan
Manufacturer : Delta Electronics Incorporated
Address : 3 Tungyuan Road Chungli Industrial Zone, Taoyuan County,
32063, Taiwan
Brand Name : DELTA ELECTRONICS, INC.
Model No. : EIAW-U11KSSU7A04, EIAW-U19KSSU7A04
FCC ID : H79EIAWU19KSS
EUT Voltage : AC 208~240V
Testing Voltage : AC 220V/60Hz
Applicable Standard : FCC CFR Title 47 Part 15 Subpart C Section 15.247
ANSI C63.10: 2013
Laboratory Name : Hsin Chu Laboratory
Address : No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu
County 310, Taiwan, R.O.C.
TEL: +886-3-582-8001 / FAX: +886-3-582-8958
Test Result : Complied

Documented By

:



(Hailey Peng / Senior Engineer)

Approved By

:



(Louis Hsu / Deputy Manager)

The test results relate only to the samples tested.

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Revision History

Version	Description	Issued Date
V1.0	Initial issue of report	Dec. 23, 2021

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1. General Information

1.1. EUT Description

Product Name	Electric Vehicle (EV) Supply Equipment	
Brand Name	DELTA ELECTRONICS, INC.	
Model No.	EIAW-U11KSSU7A04, EIAW-U19KSSU7A04	
Frequency Range / Channel Number	IEEE 802.11b/g	2412 ~ 2462 MHz / 11 Channels
	IEEE 802.11n (20 MHz)	2412 ~ 2462 MHz / 11 Channels
Type of Modulation	IEEE 802.11b	DSSS
	IEEE 802.11g/n	OFDM
Data Rate	IEEE 802.11b	1, 2, 5.5, 11 Mbps
	IEEE 802.11g	6, 9, 12, 18, 24, 36, 48, 54 Mbps
	IEEE 802.11n	Support a subset of the combination of GI, MCS 0 ~ MCS 7 and bandwidth defined in 802.11n

The difference for each model is shown as below:

Model No.	Rating
EIAW-U11KSSU7A04	208-240Vac, 1P48A, 60Hz
EIAW-U19KSSU7A04	208-240Vac, 1P80A, 60Hz

From the above models, model: EIAW-U19KSSU7A04 was selected as representative model for the test and its data was recorded in this report.

Antenna Information				
Ant.	Brand Name	Model No.	Type	Gain (dBi)
0	ARISTOTLE	RFA-25-AP956-70B-140	PIFA	2.25

IEEE 802.11b/g & IEEE 802.11n (20 MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
01	2412 MHz	02	2417 MHz	03	2422 MHz	04	2427 MHz
05	2432 MHz	06	2437 MHz	07	2442 MHz	08	2447 MHz
09	2452 MHz	10	2457 MHz	11	2462 MHz	-	-

Note:

1. Regards to the frequency band operation; the lowest, middle and highest frequency of channel were selected to perform the test, and then shown on this report.
2. The above EUT information is declared by the manufacturer.

1.2. Test Mode

DEKRA has verified the construction and function in typical operation. The preliminary tests were performed in different data rate, and to find the worst condition, which was shown in this test report. The following table is the final test mode.

Test Mode	Mode 1: Transmit
-----------	------------------

Test Items	Test Mode	Modulation	Channel	Antenna	Result
AC Power Line Conducted Emission	Mode 1	11g	6	0	Pass
Maximum Conducted Output Power	Mode 1	11b	1/6/11	0	Pass
		11g	1/6/11	0	Pass
		11n (20 MHz)	1/6/11	0	Pass
Radiated Emission Below 1 GHz	Mode 1	11g	6	0	Pass
Radiated Emission Above 1 GHz	Mode 1	11b	1/6/11	0	Pass
		11g	1/6/11	0	Pass
		11n (20 MHz)	1/6/11	0	Pass
Antenna Port Conducted Emission	Mode 1	11b	1/6/11	0	Pass
		11g	1/6/11	0	Pass
		11n (20 MHz)	1/6/11	0	Pass
Radiated Emission Band Edge	Mode 1	11b	1/6/11	0	Pass
		11g	1/6/11	0	Pass
		11n (20 MHz)	1/6/11	0	Pass
Occupied Bandwidth & DTS Bandwidth	Mode 1	11b	1/6/11	0	Pass
		11g	1/6/11	0	Pass
		11n (20 MHz)	1/6/11	0	Pass
Maximum Power Spectral Density	Mode 1	11b	1/6/11	0	Pass
		11g	1/6/11	0	Pass
		11n (20 MHz)	1/6/11	0	Pass

Note:

1. Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. The worst case of data rate for 802.11b is 1 Mbps, for 802.11g is 6 Mbps, for 802.11n (20 MHz) are MCS 0, Nss1.
3. For radiated emission below 1 GHz and AC power line conducted emission have performed all modes of operation were investigated and the worst-case emissions are reported.

1.3. Comments and Remarks

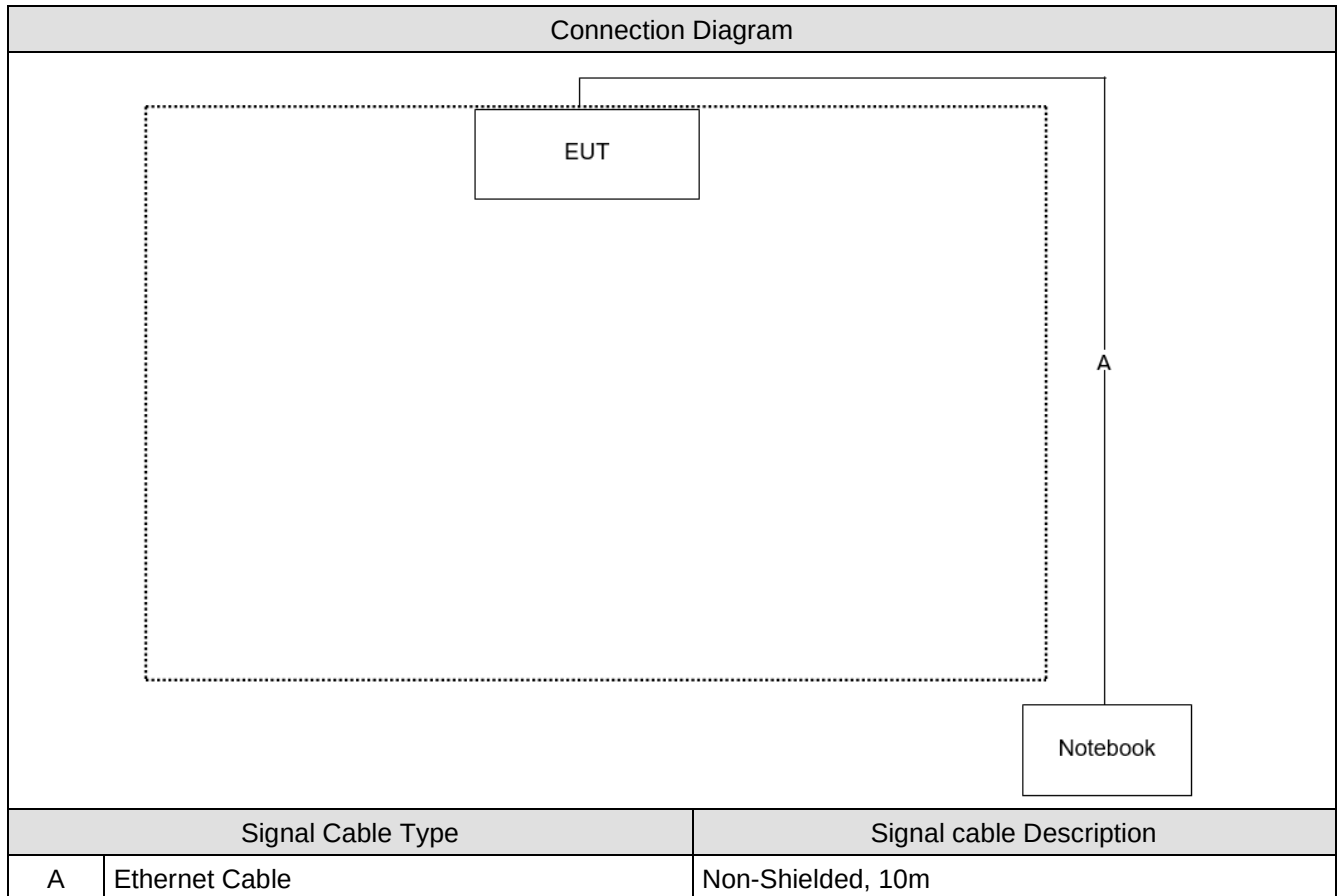
The product specification and testing instructions for the EUT declared in the report are provided by the manufacturer who will take all responsibilities for the accuracy.

1.4. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

	Product	Manufacturer	Model No.	Serial No.	FCC ID
1	Notebook	ASUS	E402S	GBN0CV14W050478	SDoC

1.5. Configuration of Tested System



1.6. EUT Operation of during Test

1	Set the EUT as shown.
2	Execute control command by software "Putty".
3	Configure test mode, test channel and data rate.
4	Let the EUT start transmitting signal continuously.
5	Verify that device is working properly.

1.7. Test Facility

Ambient conditions in the laboratory:

Items	Test Item	Actually	Tested by	Test Date	Test Site
Temperature (°C)	AC Power Line Conducted Emission	20	Elwin Lin	2021/11/12	SR2-H
Humidity (%RH)		60			
Temperature (°C)	Maximum Conducted Output Power	21	Elwin Lin	2021/11/16	SR12-H
Humidity (%RH)		61			
Temperature (°C)	Radiated Emission	21.1 ~ 22.2	Ling Chen Cyril Chen	2021/11/5 ~ 2021/11/12	CB2-H
Humidity (%RH)		49 ~ 58.8			
Temperature (°C)	Antenna Port Conducted Emission	21	Elwin Lin	2021/11/16	SR12-H
Humidity (%RH)		61			
Temperature (°C)	Radiated Emission Band Edge	21.1 ~ 22.2	Ling Chen Cyril Chen	2021/11/5 ~ 2021/11/12	CB2-H
Humidity (%RH)		49 ~ 58.8			
Temperature (°C)	Occupied Bandwidth & DTS Bandwidth	21	Elwin Lin	2021/11/16	SR12-H
Humidity (%RH)		61			
Temperature (°C)	Maximum Power Spectral Density	21	Elwin Lin	2021/11/16	SR12-H
Humidity (%RH)		61			

Note: Test site information refers to Laboratory Information.

USA : FCC Registration Number: TW3024

Canada : CAB identifier : TW3024

The address and introduction of DEKRA Testing and Certification Co., Ltd. laboratories can be founded in our Web site: <http://www.dekra.com.tw>

If you have any comments, please don't hesitate to contact us. Our test sites as below:

Test Laboratory	DEKRA Testing and Certification Co., Ltd.
Address	1. No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. 2. No.372, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C.
Phone number	1. +886-3-582-8001 2. +886-3-582-8001
Fax number	1. +886-3-582-8958 2. +886-3-582-8958
E mail address	info.tw@dekra.com
Website	http://www.dekra.com.tw
Note: Test site number for address 1 includes SR2-H. Test site number for address 2 includes CB2-H, CB3-H, CB4-H, SR10-H and SR12-H.	

1.8. List of Test Equipment

SR2-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Artificial Mains Network	R&S	ENV4200	848411/010	2020/12/24	2021/12/23
Test Receiver	R&S	ESCS 30	836858/022	2021/02/22	2022/02/21
LISN	R&S	ENV216	100092	2021/06/08	2022/06/07
Coaxial Cable(9 m)	Harbour	RG-400	SR2-H	2021/08/15	2022/08/14
DEKRA Testing System	DEKRA	Version 2.0	SR2-H	N/A	N/A

SR12-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
High Speed Peak Power Meter Dual Input	Anritsu	ML2496A	1602004	2021/11/12	2022/11/11
Pulse Power Sensor	Anritsu	MA2411B	1531043	2021/11/12	2022/11/11
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2021/01/25	2022/01/24
Pulse Power Sensor	Anritsu	MA2411B	1531044	2021/11/12	2022/11/11
Power Meter	Keysight	8990B	MY51000248	2021/05/21	2022/05/20
Power Sensor	Keysight	N1923A	MY57240005	2021/05/21	2022/05/20
Spectrum Analyzer	Keysight	N9030B	MY57140404	2021/05/14	2022/05/13
Spectrum Analyzer	Keysight	N9010B	MY57110159	2021/03/29	2022/03/28
Spectrum Analyzer	Agilent	N9010A	US47140172	2021/05/28	2022/05/27

CB2-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal & Spectrum Analyzer	R&S	FSV40	101049	2021/03/31	2022/03/30
Signal Analyzer	R&S	FSVA40	101435	2021/06/04	2022/06/03
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2021/01/25	2022/01/24
Trilog Broadband Antenna	Schwarzbeck	VULB 9168	1272	2021/08/20	2022/08/19
Bilog Antenna	Teseq	CBL6112D	23191	2021/02/26	2022/02/25
Horn Antenna	Schwarzbeck	BBHA 9120D	639	2021/05/17	2022/05/16
Horn Antenna	Schwarzbeck	BBHA 9170	202	2020/12/16	2021/12/15
Pre-Amplifier	EMCI	EMC01820I	980365	2021/05/28	2022/05/27
Pre-Amplifier	EMEC	EM01G18GA	060741	2021/07/02	2022/07/01
Pre-Amplifier	DEKRA	AP-400C	201801231	2021/11/12	2022/11/11
EMI Test Receiver	R&S	ESR7	102260	2020/12/28	2021/12/27
Magnetic Loop Antenna	Teseq	HLA 6121	44287	2021/09/06	2022/09/05
Coaxial Cable(10m)	Suhner	SF102_SF104	CB4-H	2021/08/09	2022/08/08
Coaxial Cable(13m)	Huber+Suhner	SF104	CB2-H	2021/08/17	2022/08/16
Coaxial Cable(3m)	Suhnerr,Rosnol	SF102_Rosnol	CB2-H	2021/08/17	2022/08/18
Radiated Software	AUDIX	e3 V9	CB2-H	N/A	N/A

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

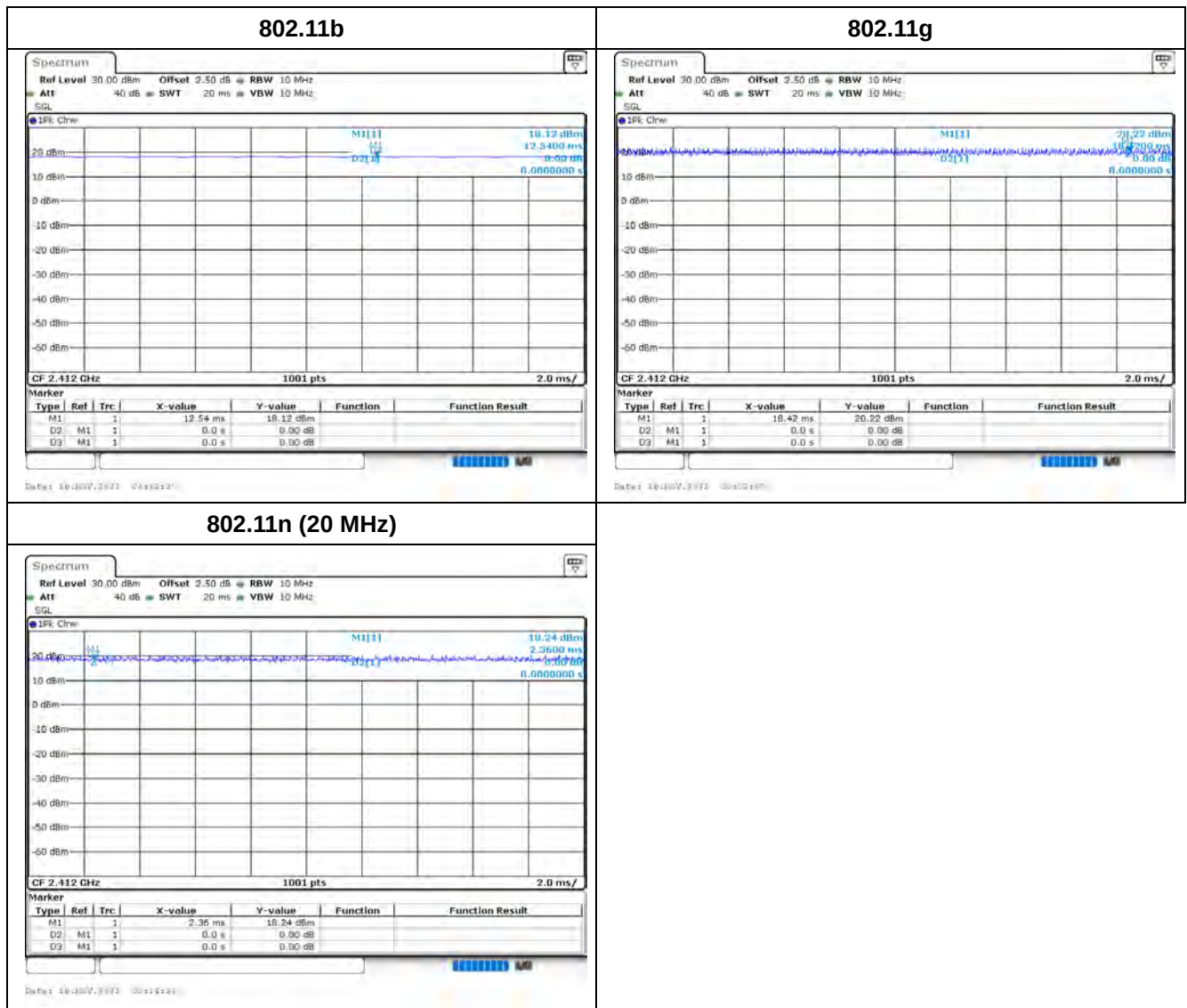
1.9. Measurement Uncertainty

Uncertainties have been calculated according to the DEKRA internal document with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

Test Item	Uncertainty
AC Power Line Conducted Emission	± 2.10 dB
Maximum Conducted Output Power	± 1.16 dB
Radiated Emission	± 3.25 dB below 1 GHz ± 3.32 dB above 1 GHz
Antenna Port Conducted Emission	± 1.60 dB
Radiated Emission Band Edge	± 3.32 dB above 1GHz
DTS Bandwidth	± 282.55 Hz
Occupied Bandwidth	± 282.55 Hz
Maximum Power Spectral Density	± 1.60 dB

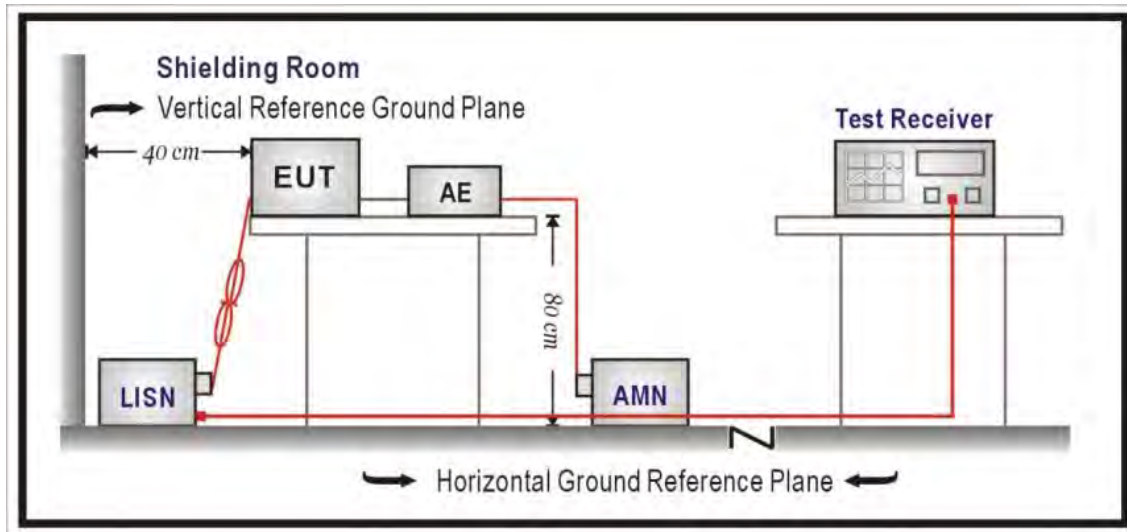
1.10. Duty Cycle

Duty cycle of test signal is $\geq 98\%$, duty factor is not required.



2. AC Power Line Conducted Emission

2.1. Test Setup



2.2. Test Limit

Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Remarks: In the above table, the tighter limit applies at the band edges.

2.3. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50 uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50 ohm/50 uH coupling impedance with 50 ohm termination. (Please refer to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.

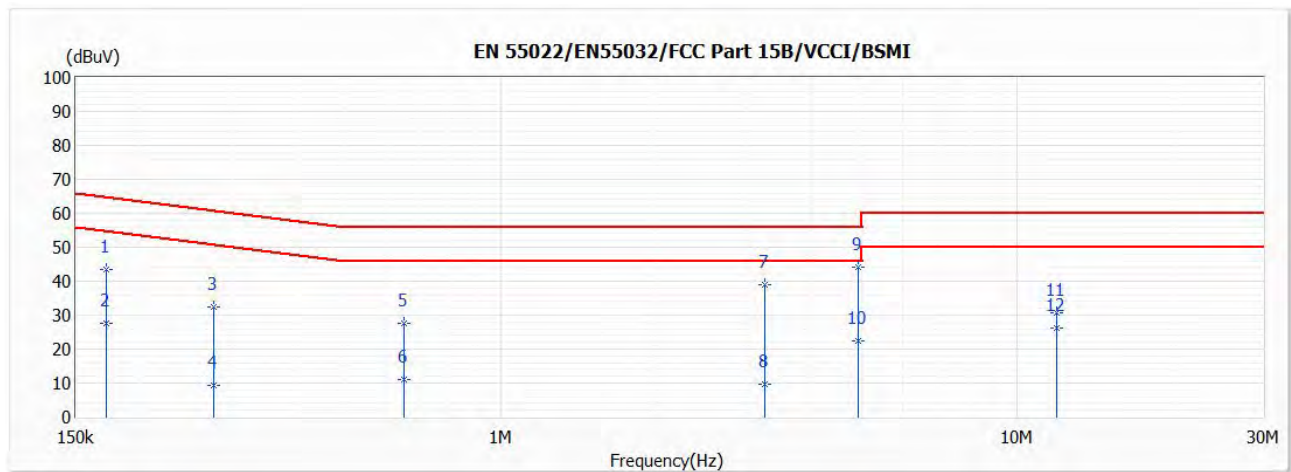
AC Power Line Conducted Emissions were investigated over the frequency range from 0.15 MHz to 30 MHz using a receiver bandwidth of 9 kHz.

2.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247.

2.5. Test Result of AC Power Line Conducted Emission

Test Condition	802.11g / 2437 MHz	Phase	Line
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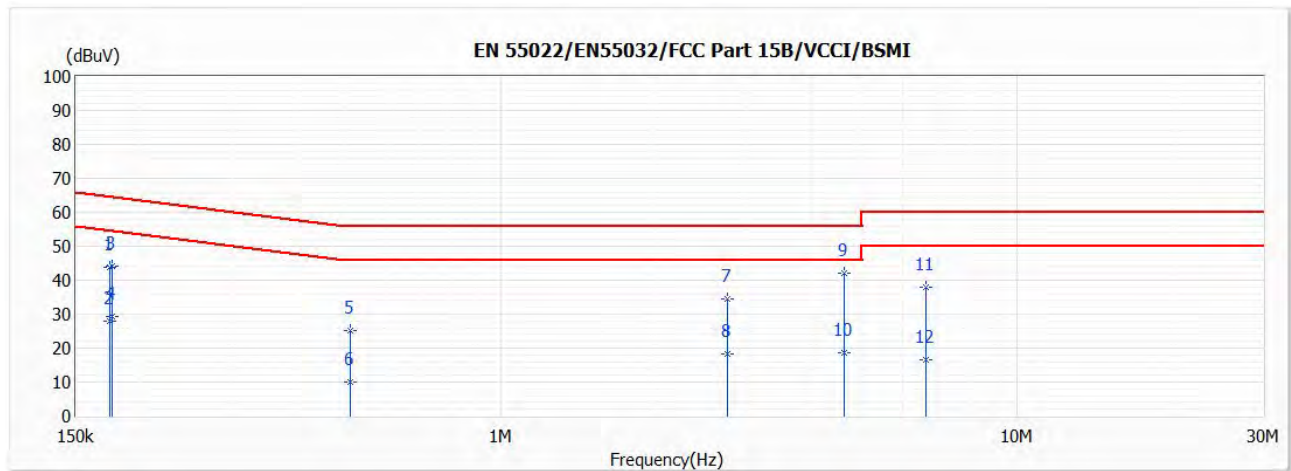


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.172	43.59	64.86	-21.27	33.96	9.63	QP
2	0.172	27.60	54.86	-27.26	17.97	9.63	AV
3	0.278	32.56	60.87	-28.31	22.92	9.64	QP
4	0.278	9.47	50.87	-41.40	-0.17	9.64	AV
5	0.650	27.49	56.00	-28.51	17.81	9.68	QP
6	0.650	10.96	46.00	-35.04	1.28	9.68	AV
7	3.249	38.91	56.00	-17.09	29.07	9.84	QP
8	3.249	9.57	46.00	-36.43	-0.27	9.84	AV
*9	4.930	44.14	56.00	-11.86	34.21	9.93	QP
10	4.930	22.31	46.00	-23.69	12.38	9.93	AV
11	11.953	30.58	60.00	-29.42	20.41	10.17	QP
12	11.953	26.29	50.00	-23.71	16.12	10.17	AV

Note:

1. " * ", means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

Test Condition	802.11g / 2437 MHz	Phase	Neutral
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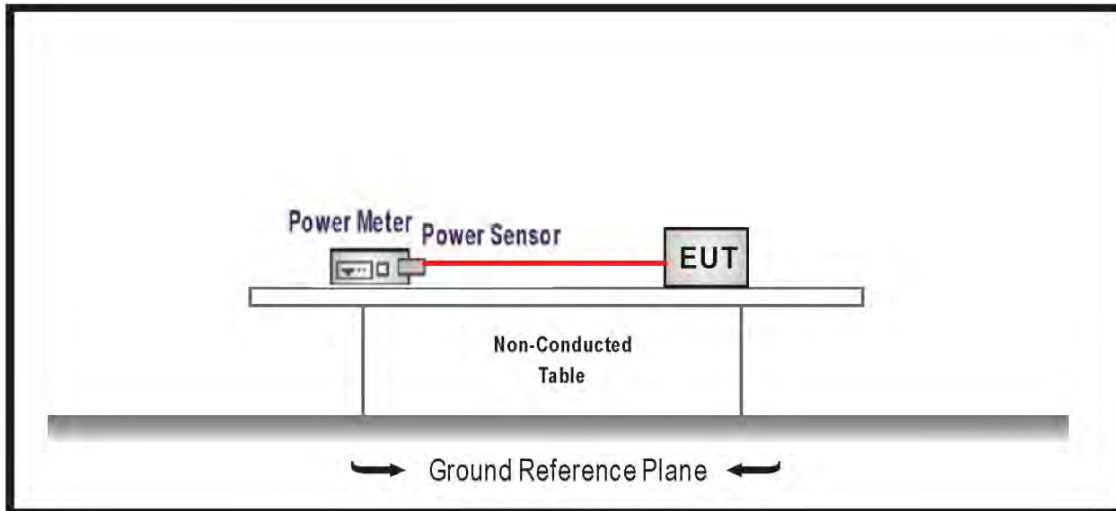
No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.174	43.92	64.75	-20.83	34.28	9.64	QP
2	0.174	27.77	54.75	-26.98	18.13	9.64	AV
3	0.176	44.23	64.66	-20.43	34.60	9.63	QP
4	0.176	29.24	54.66	-25.42	19.61	9.63	AV
5	0.509	25.05	56.00	-30.95	15.37	9.68	QP
6	0.509	9.96	46.00	-36.04	0.28	9.68	AV
7	2.749	34.57	56.00	-21.43	24.74	9.83	QP
8	2.749	18.28	46.00	-27.72	8.45	9.83	AV
*9	4.630	42.17	56.00	-13.83	32.24	9.93	QP
10	4.630	18.79	46.00	-27.21	8.86	9.93	AV
11	6.646	37.93	60.00	-22.07	27.92	10.01	QP
12	6.646	16.61	50.00	-33.39	6.60	10.01	AV

Note:

1. " * ", means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

3. Maximum Conducted Output Power

3.1. Test Setup



3.2. Test Limit

The maximum conducted output power shall be less 30 dBm (1 Watt).

3.3. Test Procedures

The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure of KDB 558074 D01 v05r02 for compliance to FCC 47CFR 15.247 requirements.

3.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247.

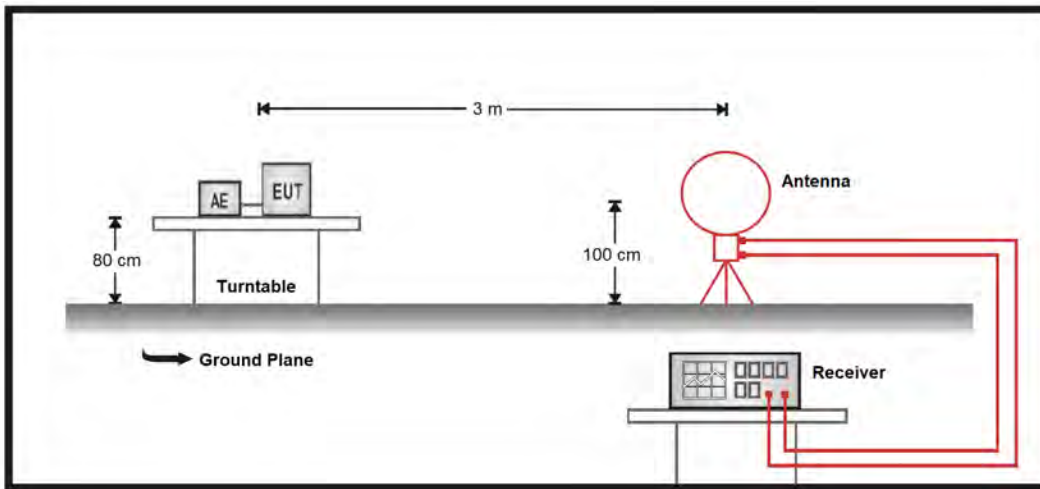
3.5. Test Result of Maximum Conducted Output Power

Modulation	Channel	Frequency (MHz)	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result
802.11b	1	2412	16.580	≤ 30.00	Pass
	6	2437	16.300	≤ 30.00	Pass
	11	2462	15.620	≤ 30.00	Pass
802.11g	1	2412	12.100	≤ 30.00	Pass
	6	2437	13.030	≤ 30.00	Pass
	11	2462	12.570	≤ 30.00	Pass
802.11n (20 MHz)	1	2412	12.130	≤ 30.00	Pass
	6	2437	12.940	≤ 30.00	Pass
	11	2462	12.490	≤ 30.00	Pass

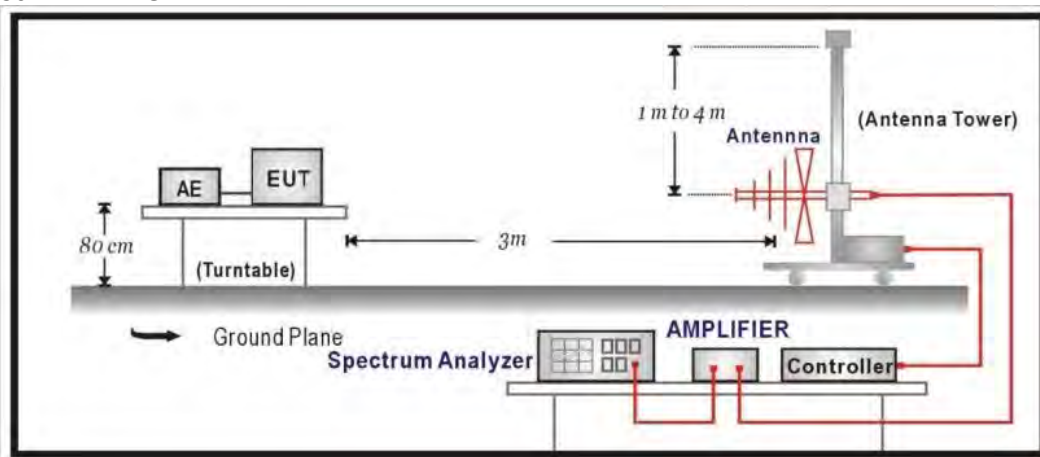
4. Radiated Emission

4.1. Test Setup

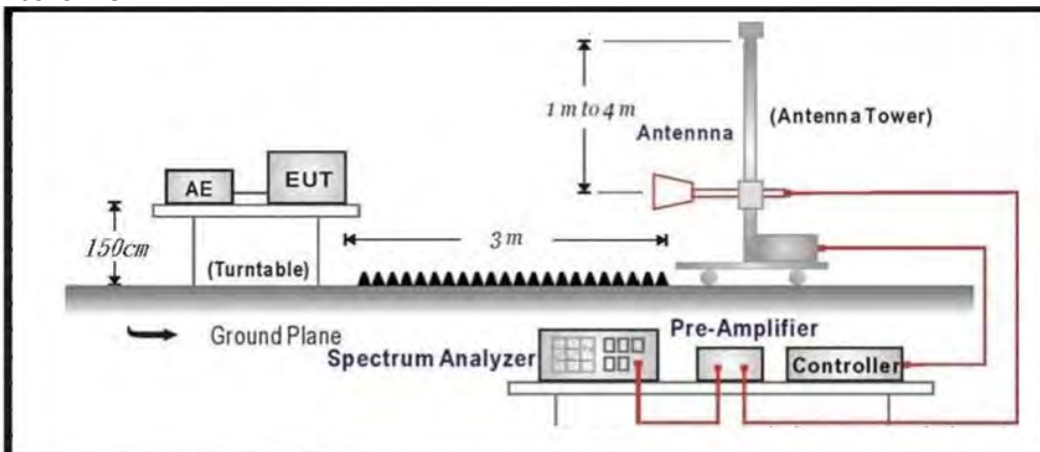
9 kHz ~ 30 MHz



30 MHz ~ 1 GHz



Above 1 GHz



4.2. Test Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 30dB below the level of the fundamental or to the general radiated emission limit in paragraph 15.209, whichever is the lesser attenuation.

Frequency (MHz)	Field strength (uV/m)	Field strength (dBuV/m)	Measurement distance (m)
0.009 – 0.490	2400/F(kHz)	20 log (2400/F(kHz))	300
0.490 – 1.705	24000/F(kHz)	20 log (24000/F(kHz))	30
1.705 - 30	30	29.5	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
Above 960	500	54	3

Remarks:

1. Field strength (dBuV/m) = 20 log Field strength (uV/m)
2. In the Above Table, the tighter limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system

4.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure of KDB 558074 D01V05r02 for compliance to FCC 47CFR 15.247 requirements.

The EUT and its simulators are placed on a turn table which is 0.8 or 1.5 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated measurement.

On any frequency or frequencies from 9 kHz(include The the lowest oscillator frequency generated within the device up to the 10th harmonic) to 1000 MHz, the limit shown are based on measuring equipment employing a quasi-peak detector function and on any frequency or frequencies above 1000 MHz the radiated limit shown are based upon the use of measurement instrumentation employing an average detector function. When average radiated emission measurement are included emission measurement below 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

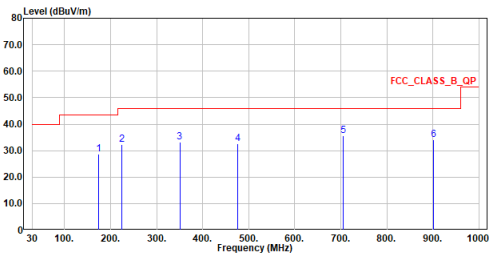
The bandwidth below 1 GHz setting on the field strength meter is 120 kHz and above 1 GHz is 1 MHz.

4.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247.

4.5. Test Result of Radiated Emissions (30 MHz ~ 1 GHz)

Site : CB2-H
Condition : 3m Horizontal
Mode : 11g_TX_2437MHz
Test by : Ling

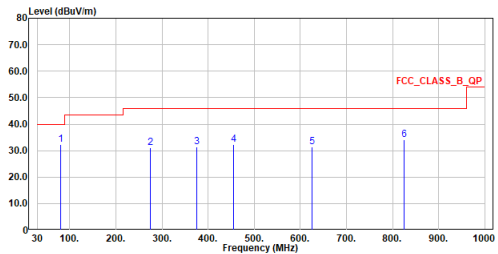


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	174.530	28.66	43.50	-14.84	31.85	-3.19	QP
2	224.970	32.16	46.00	-13.84	37.88	-5.72	QP
3	350.100	33.30	46.00	-12.70	33.90	-0.60	QP
4	475.230	32.53	46.00	-13.47	29.61	2.92	QP
5	705.120	35.75	46.00	-10.25	28.10	7.65	QP
6	902.030	34.00	46.00	-12.00	23.79	10.21	QP

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site : CB2-H
Condition : 3m Vertical
Mode : 11g_TX_2437MHz
Test by : Ling



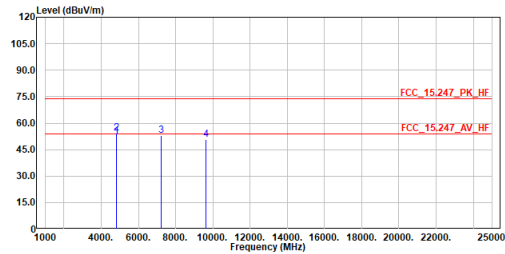
No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	80.440	32.30	40.00	-7.70	39.01	-6.71	QP
2	274.440	31.04	46.00	-14.96	33.69	-2.65	QP
3	375.320	31.43	46.00	-14.57	31.21	0.22	QP
4	454.860	32.41	46.00	-13.59	29.88	2.53	QP
5	625.580	31.33	46.00	-14.67	25.13	6.20	QP
6	825.400	34.01	46.00	-11.99	24.57	9.44	QP

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

4.6. Test Result of Radiated Emissions (1 GHz ~ 10th Harmonic)

Site :CB2-H
Condition :3m Horizontal
Mode :11b_TX_2412MHz
Test by :Cyril

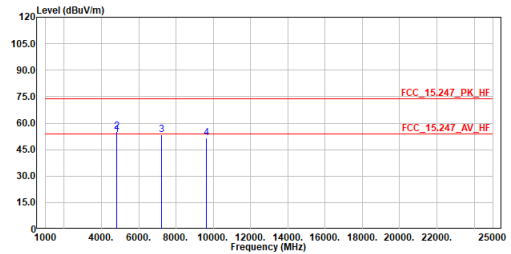


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	4824.000	52.46	54.00	-1.54	66.21	-13.75	Average
2	4824.000	54.16	74.00	-19.84	67.91	-13.75	Peak
3	7236.000	53.15	74.00	-20.85	57.85	-4.70	Peak
4	9648.000	50.79	74.00	-23.21	53.08	-2.29	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :CB2-H
Condition :3m Vertical
Mode :11b_TX_2412MHz
Test by :Cyril

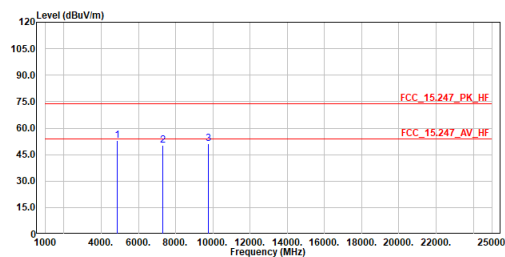


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	4824.000	53.55	54.00	-0.45	67.30	-13.75	Average
2	4824.000	55.17	74.00	-18.83	68.92	-13.75	Peak
3	7236.000	53.53	74.00	-20.47	58.23	-4.70	Peak
4	9648.000	51.73	74.00	-22.27	54.02	-2.29	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :CB2-H
Condition :3m Horizontal
Mode :11b_TX_2437MHz
Test by :Cyril

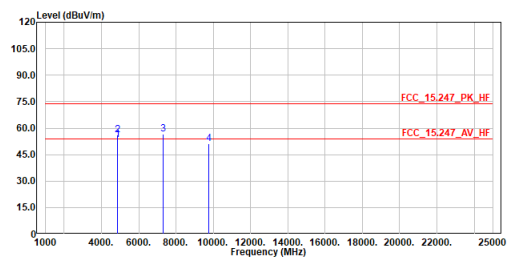


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	4874.000	52.99	74.00	-21.01	66.54	-13.55	Peak
2	7311.000	50.22	74.00	-23.78	54.82	-4.60	Peak
3	9748.000	50.96	74.00	-23.04	53.01	-2.05	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :CB2-H
Condition :3m Vertical
Mode :11b_TX_2437MHz
Test by :Cyril

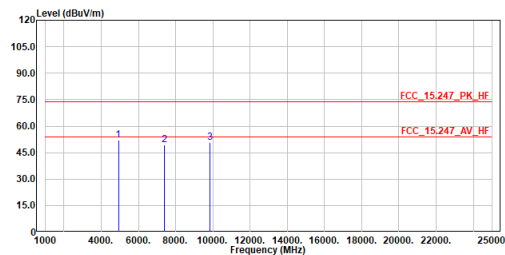


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	4874.000	53.44	54.00	-0.56	66.99	-13.55	Average
2	4874.000	55.96	74.00	-18.04	69.51	-13.55	Peak
3	7311.000	56.69	74.00	-17.31	61.29	-4.60	Peak
4	9748.000	51.13	74.00	-22.87	53.18	-2.05	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :CB2-H
Condition :3m Horizontal
Mode :11b_TX_2462MHz
Test by :Cyril

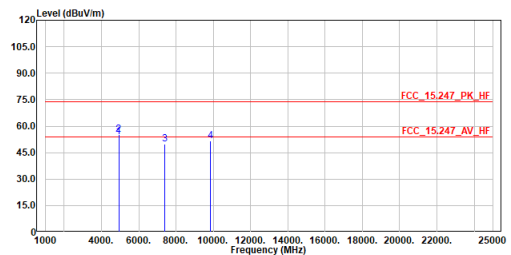


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4924.000	51.94	74.00	-22.06	65.30	-13.36	Peak
2	7386.000	49.28	74.00	-24.72	53.78	-4.50	Peak
3	9848.000	50.88	74.00	-23.12	52.69	-1.81	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :CB2-H
Condition :3m Vertical
Mode :11b_TX_2462MHz
Test by :Cyril

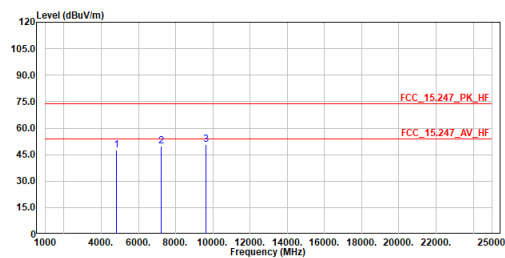


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4924.000	53.76	54.00	-0.24	67.12	-13.36	Average
2	4924.000	55.03	74.00	-18.97	68.39	-13.36	Peak
3	7386.000	50.01	74.00	-23.99	54.51	-4.50	Peak
4	9848.000	51.54	74.00	-22.46	53.35	-1.81	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :CB2-H
Condition :3m Horizontal
Mode :11g_TX_2412MHz
Test by :Cyril

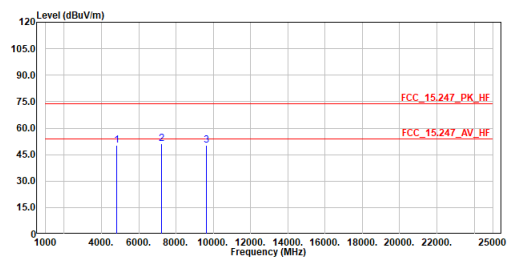


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4824.000	47.52	74.00	-26.48	61.27	-13.75	Peak
2	7236.000	50.03	74.00	-23.97	54.73	-4.70	Peak
3	9648.000	50.55	74.00	-23.45	52.84	-2.29	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :CB2-H
Condition :3m Vertical
Mode :11g_TX_2412MHz
Test by :Cyril

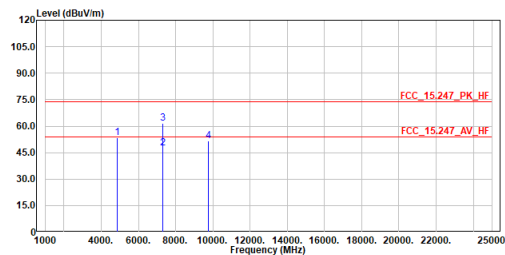


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4824.000	50.37	74.00	-23.63	64.12	-13.75	Peak
2	7236.000	51.28	74.00	-22.72	55.98	-4.70	Peak
3	9648.000	50.15	74.00	-23.85	52.44	-2.29	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :CB2-H
Condition :3m Horizontal
Mode :11g_TX_2437MHz
Test by :Cyril

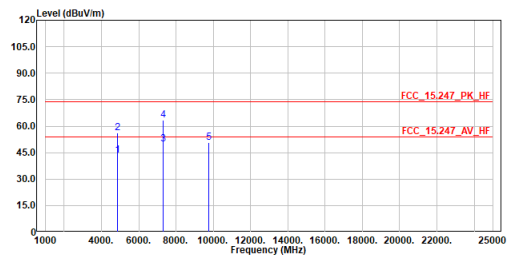


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4874.000	53.58	74.00	-20.42	67.13	-13.55	Peak
2	7311.000	47.65	54.00	-6.35	52.25	-4.60	Average
3	7311.000	61.73	74.00	-12.27	66.33	-4.60	Peak
4	9748.000	51.69	74.00	-22.31	53.74	-2.05	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :CB2-H
Condition :3m Vertical
Mode :11g_TX_2437MHz
Test by :Cyril

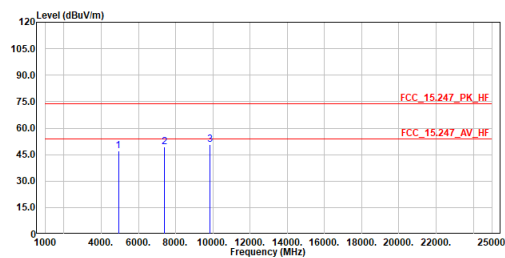


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4874.000	43.63	54.00	-10.37	57.18	-13.55	Average
2	4874.000	55.96	74.00	-18.04	69.51	-13.55	Peak
3	7311.000	49.78	54.00	-4.22	54.38	-4.60	Average
4	7311.000	63.45	74.00	-10.55	68.05	-4.60	Peak
5	9748.000	50.88	74.00	-23.12	52.93	-2.05	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :CB2-H
Condition :3m Horizontal
Mode :11g_TX_2462MHz
Test by :Cyril

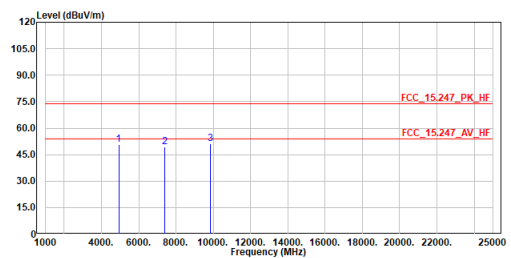


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4924.000	47.03	74.00	-26.97	60.39	-13.36	Peak
2	7386.000	49.49	74.00	-24.51	53.99	-4.50	Peak
3	9848.000	50.87	74.00	-23.13	52.68	-1.81	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :CB2-H
Condition :3m Vertical
Mode :11g_TX_2462MHz
Test by :Cyril

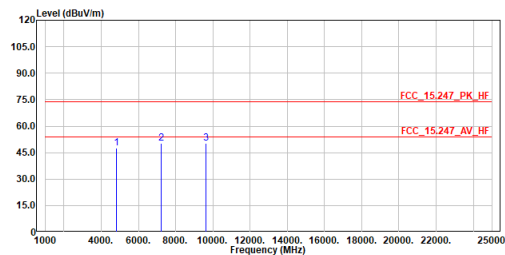


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4924.000	50.84	74.00	-23.16	64.20	-13.36	Peak
2	7386.000	49.32	74.00	-24.68	53.82	-4.50	Peak
3	9848.000	51.36	74.00	-22.64	53.17	-1.81	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :CB2-H
Condition :3m Horizontal
Mode :11n20_TX_2412MHz
Test by :Cyril

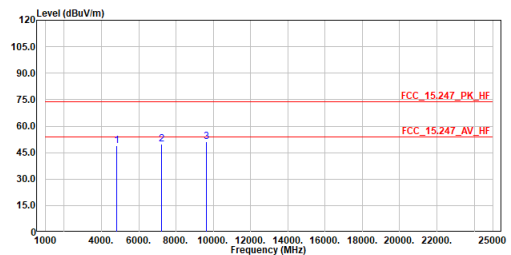


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4824.000	47.57	74.00	-26.43	61.32	-13.75	Peak
2	7236.000	50.42	74.00	-23.58	55.12	-4.70	Peak
3	9648.000	50.12	74.00	-23.88	52.41	-2.29	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :CB2-H
Condition :3m Vertical
Mode :11n20_TX_2412MHz
Test by :Cyril

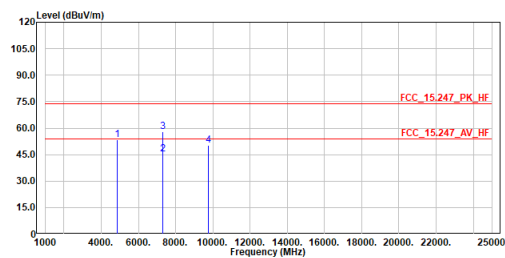


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4824.000	48.92	74.00	-25.08	62.67	-13.75	Peak
2	7236.000	49.88	74.00	-24.12	54.58	-4.70	Peak
3	9648.000	50.96	74.00	-23.04	53.25	-2.29	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :CB2-H
Condition :3m Horizontal
Mode :11n20_TX_2437MHz
Test by :Cyril

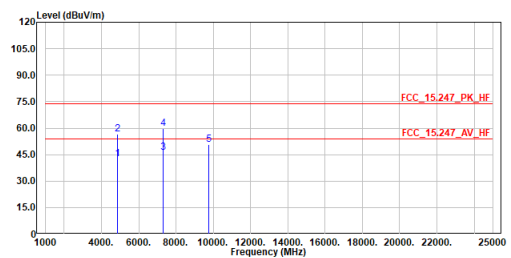


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4874.000	53.38	74.00	-20.62	66.93	-13.55	Peak
2	7311.000	45.09	54.00	-8.91	49.69	-4.60	Average
3	7311.000	58.05	74.00	-15.95	62.65	-4.60	Peak
4	9748.000	50.25	74.00	-23.75	52.30	-2.05	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :CB2-H
Condition :3m Vertical
Mode :11n20_TX_2437MHz
Test by :Cyril

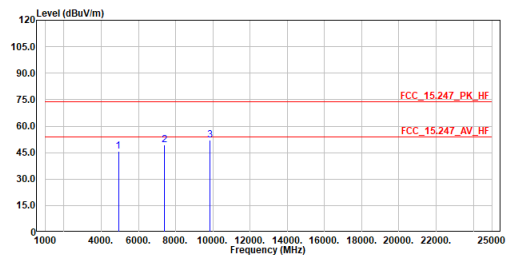


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4874.000	42.48	54.00	-11.52	56.03	-13.55	Average
2	4874.000	56.55	74.00	-17.45	70.10	-13.55	Peak
3	7311.000	46.23	54.00	-7.77	50.83	-4.60	Average
4	7311.000	59.85	74.00	-14.15	64.45	-4.60	Peak
5	9748.000	50.61	74.00	-23.39	52.66	-2.05	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :CB2-H
 Condition :3m Horizontal
 Mode :11n20_TX_2462MHz
 Test by :Cyril

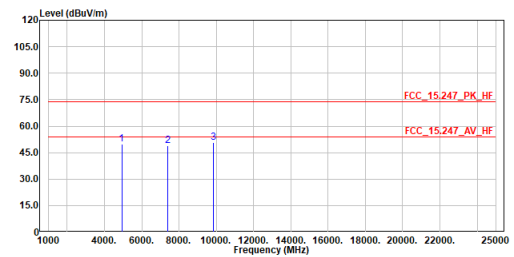


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	4924.000	45.64	74.00	-28.36	59.00	-13.36	Peak
2	7386.000	49.31	74.00	-24.69	53.81	-4.50	Peak
3	9848.000	52.01	74.00	-21.99	53.82	-1.81	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :CB2-H
 Condition :3m Vertical
 Mode :11n20_TX_2462MHz
 Test by :Cyril



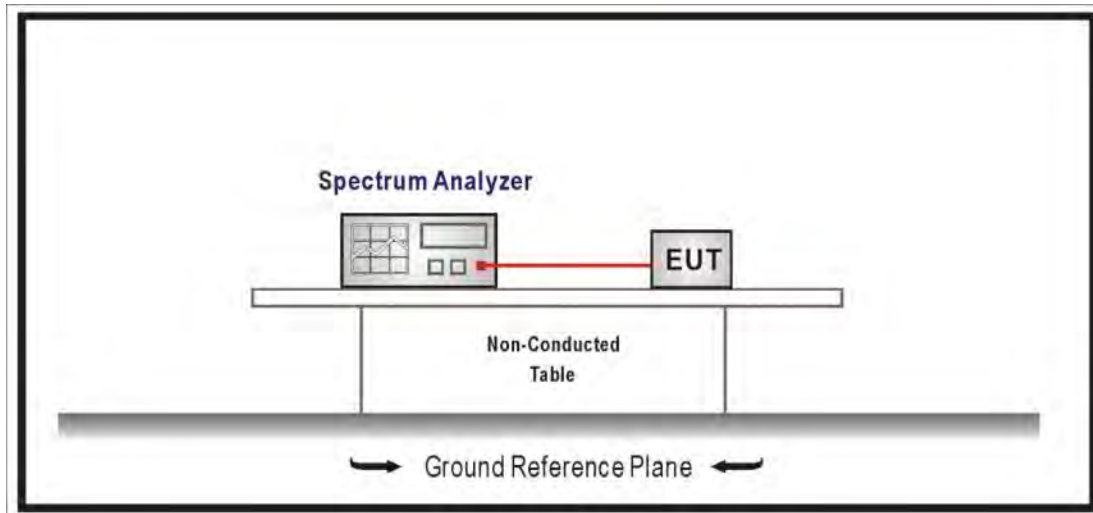
No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	4924.000	49.60	74.00	-24.40	62.96	-13.36	Peak
2	7386.000	49.09	74.00	-24.91	53.59	-4.50	Peak
3	9848.000	50.74	74.00	-23.26	52.55	-1.81	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

5. Antenna Port Conducted Emission

5.1. Test Setup



5.2. Test Limit

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 limit. If the transmitter complies with the conducted power limit based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limit specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limit specified in §15.209(a) (see §15.205(c)).

5.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure of KDB 558074 D01 V05r02 for compliance to FCC 47CFR 15.247 requirements.

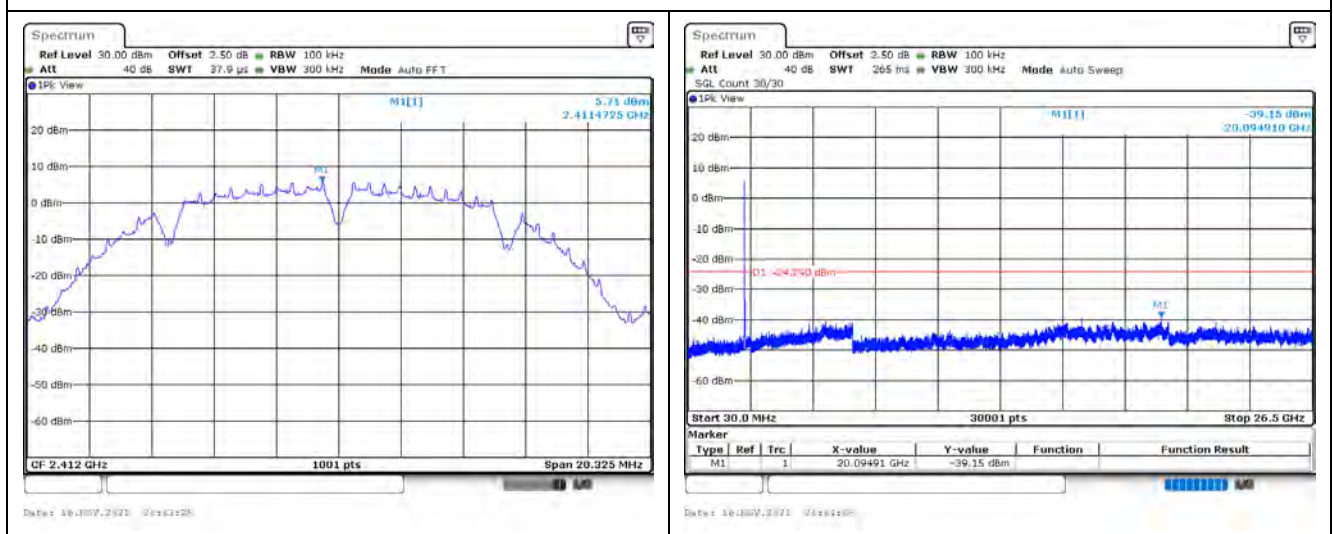
Set RBW = 100 kHz, Set VBW > RBW, scan up through 10th harmonic.

5.4. Test Specification

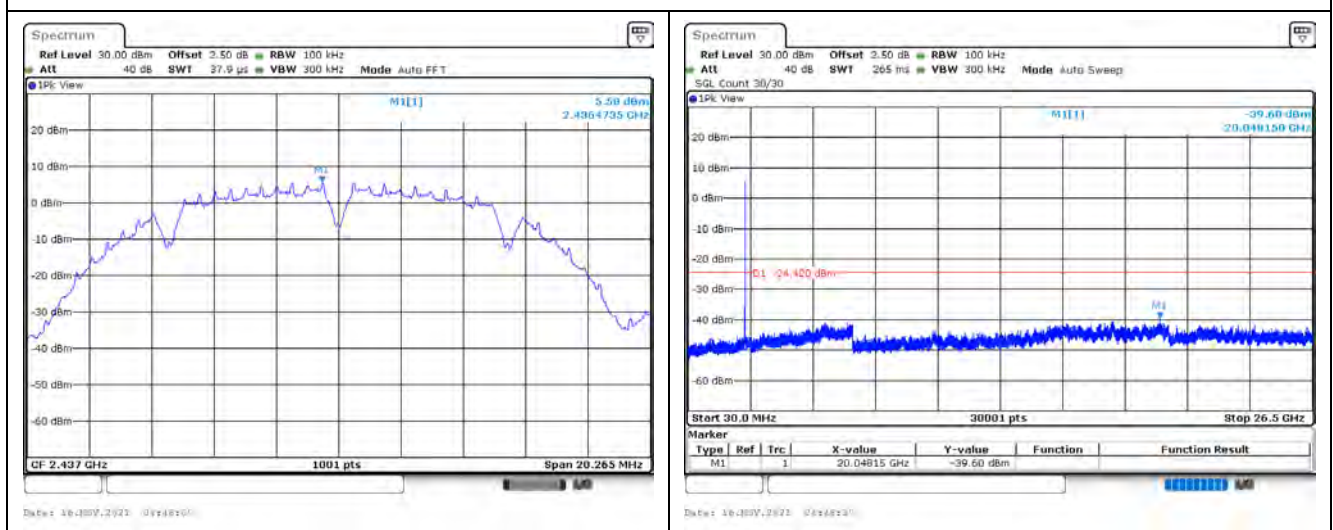
According to FCC Part 15 Subpart C Paragraph 15.247.

5.5. Test Result of Antenna Port Conducted Emission

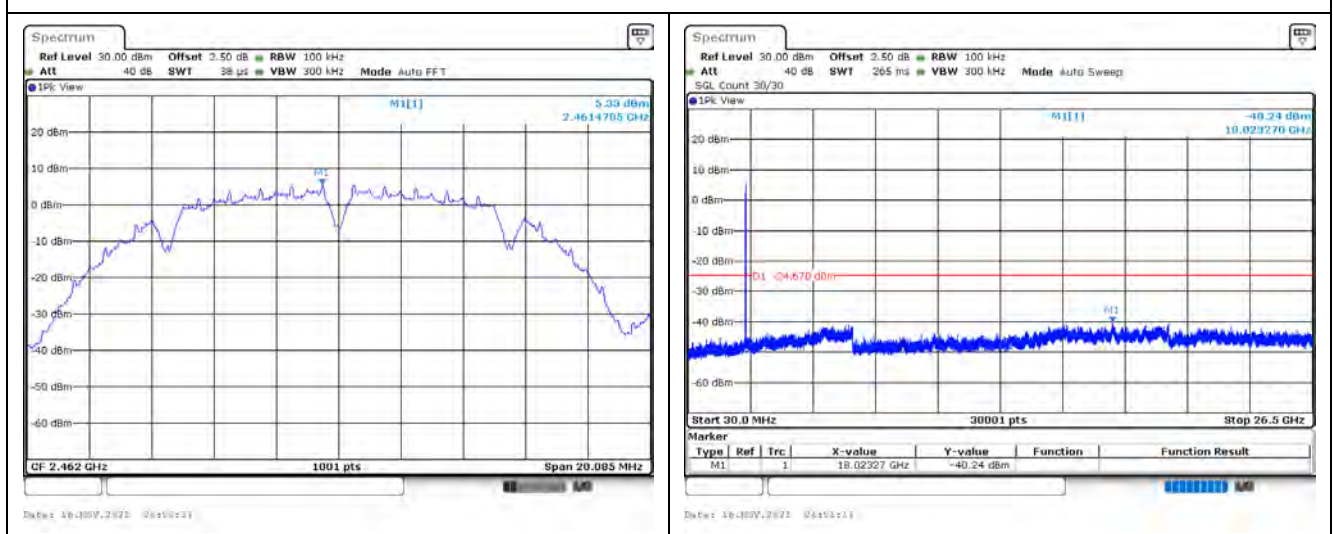
802.11b / 2412 MHz



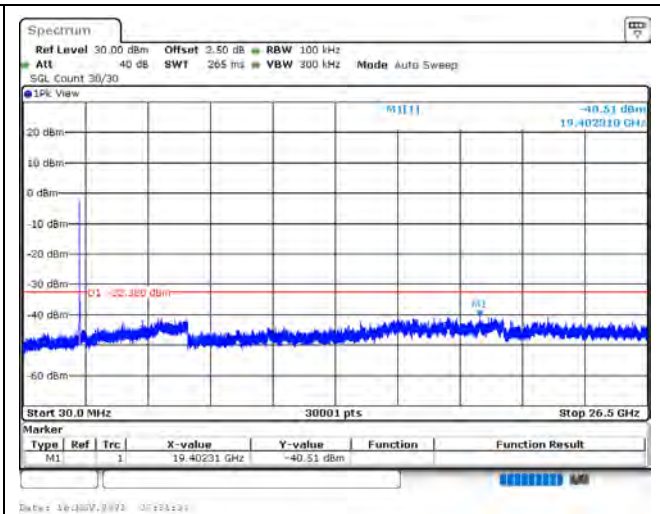
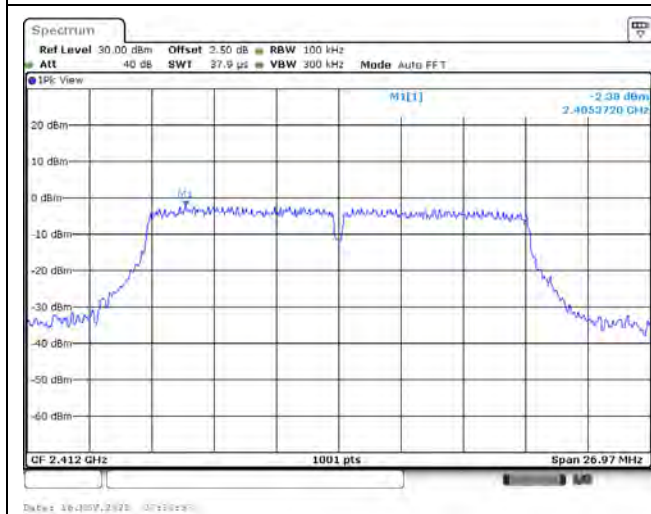
802.11b / 2437 MHz



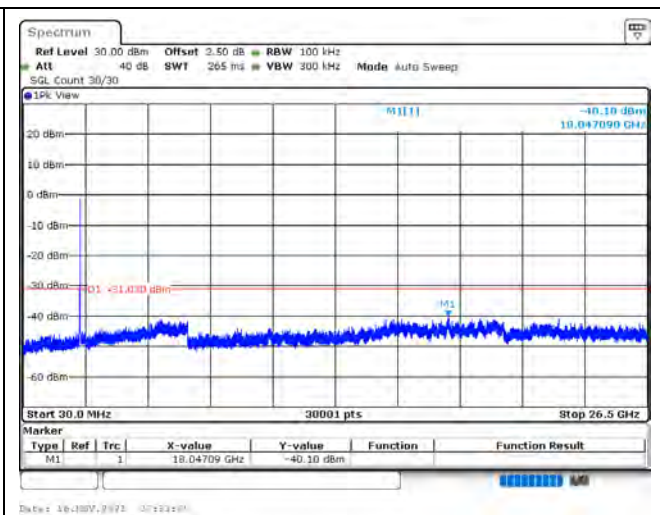
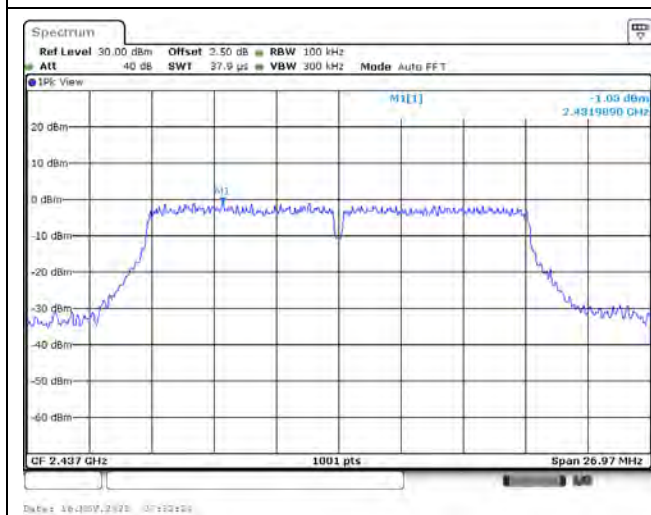
802.11b / 2462 MHz



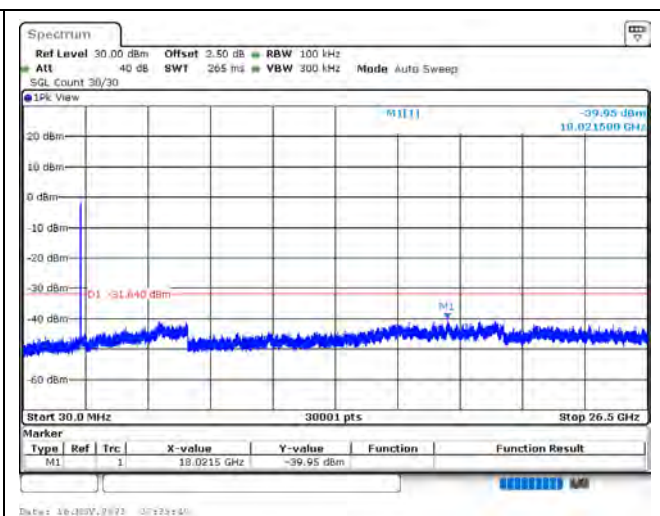
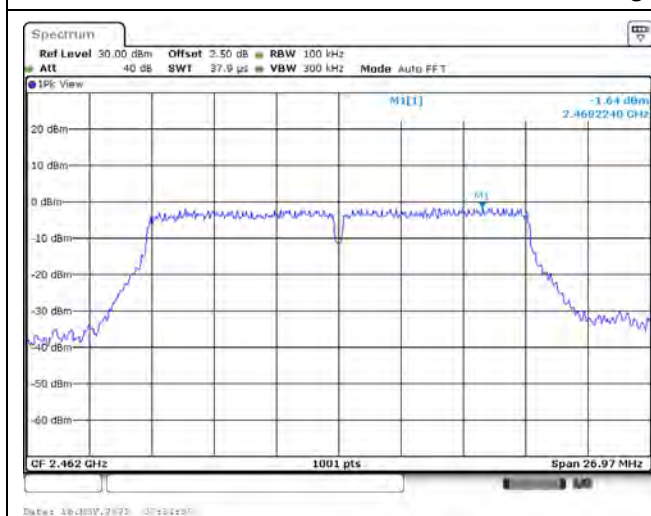
802.11g / 2412 MHz



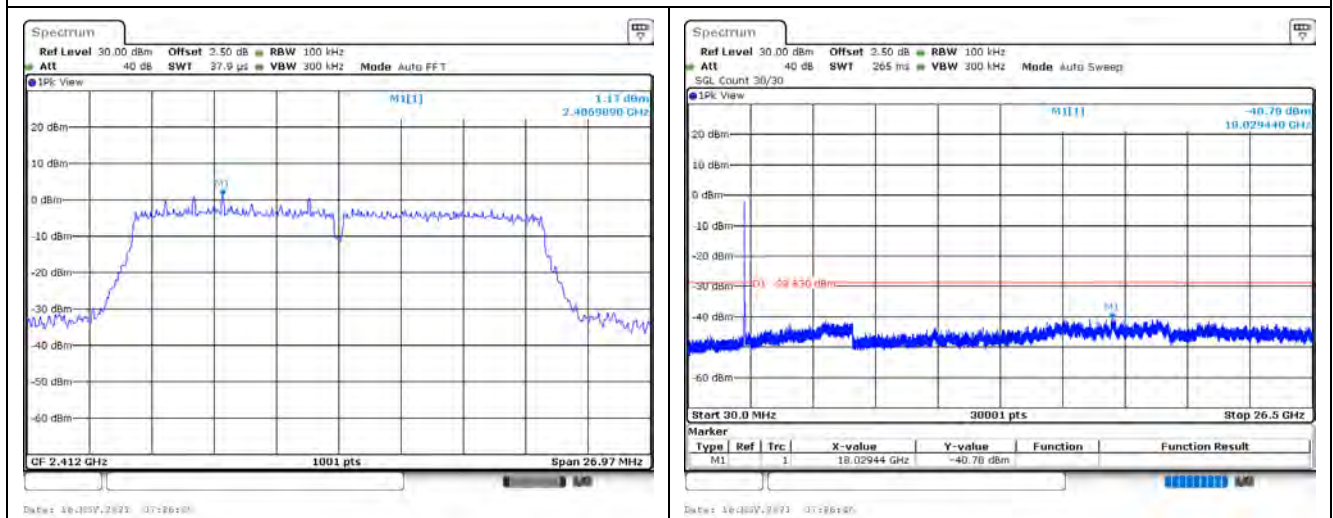
802.11g / 2437 MHz



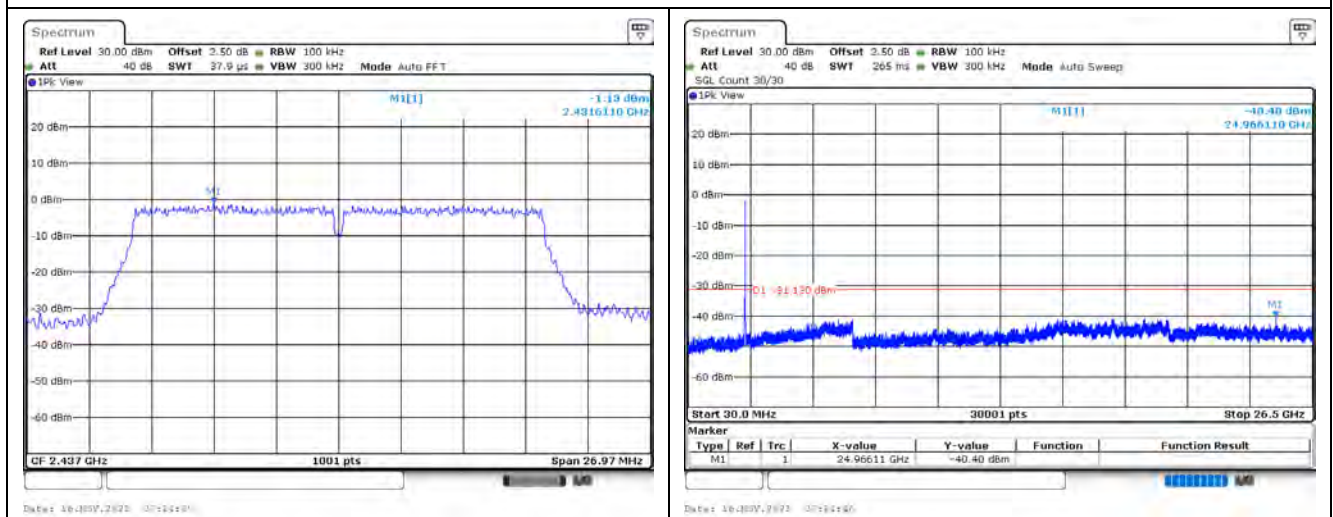
802.11g / 2462 MHz



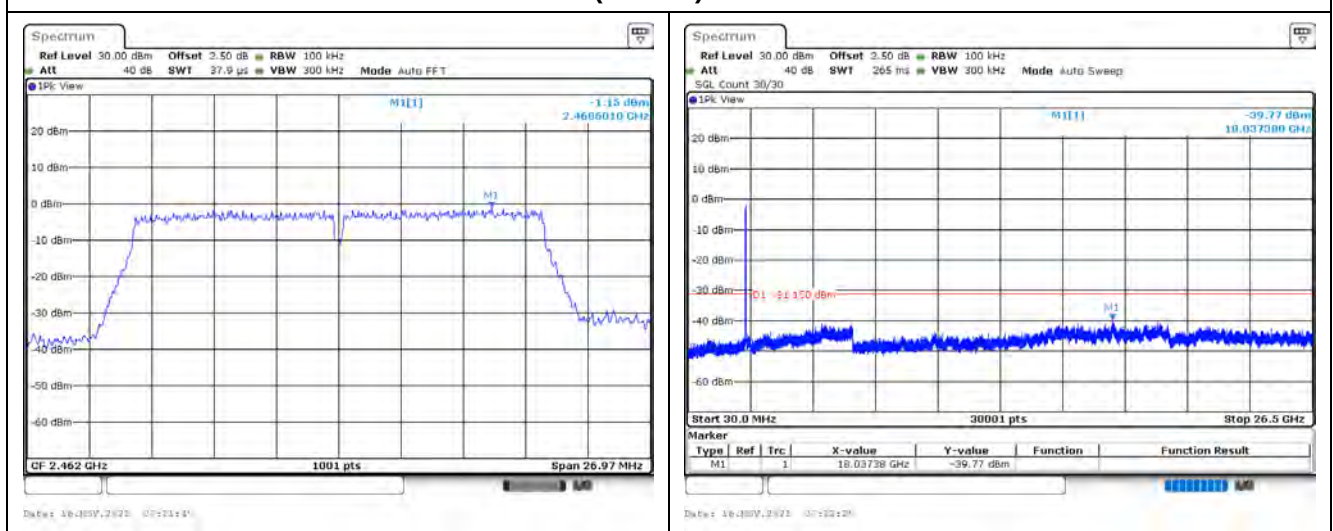
802.11n (20 MHz) / 2412 MHz

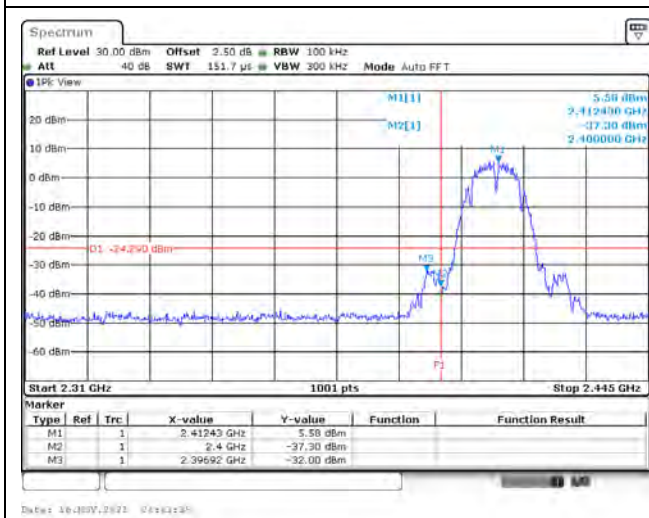
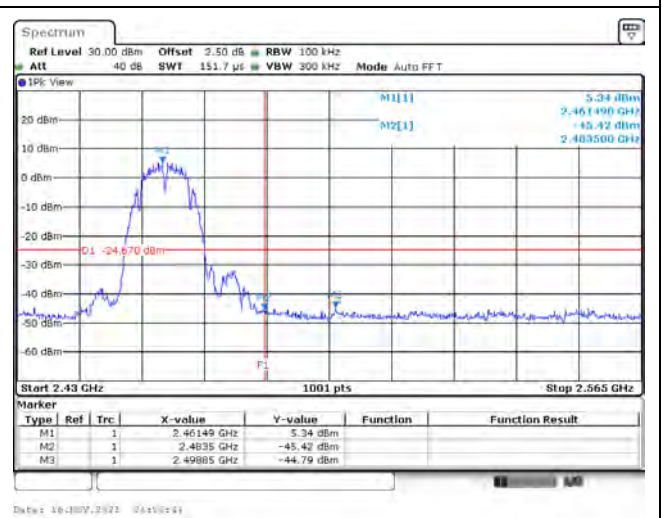
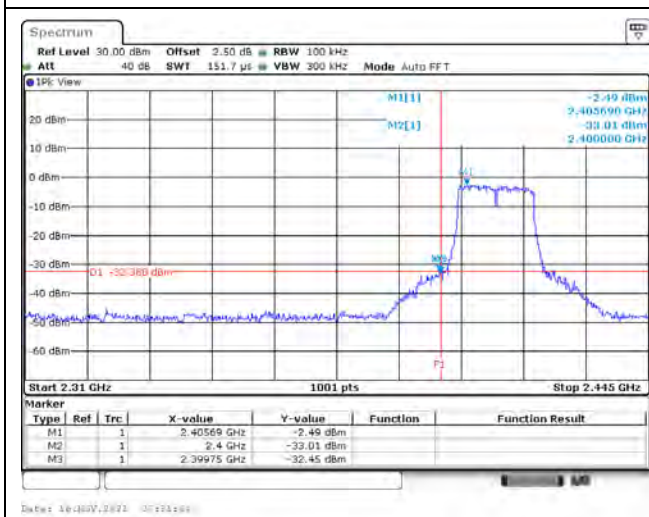
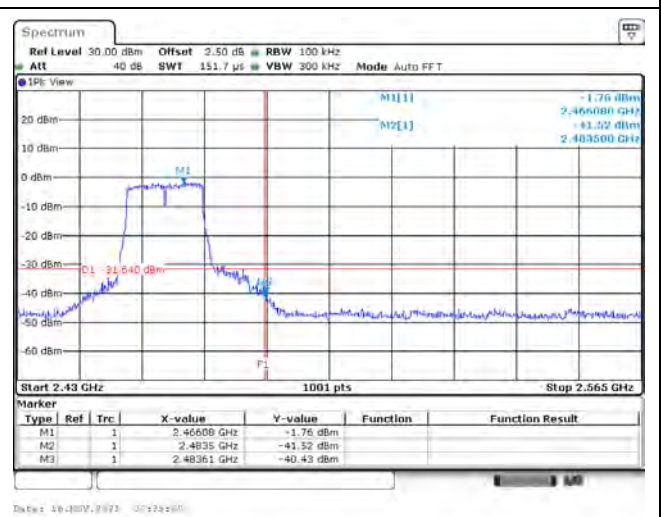
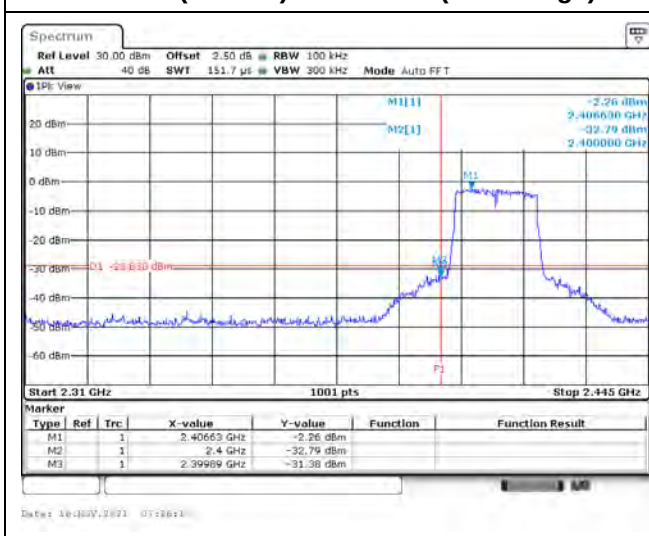
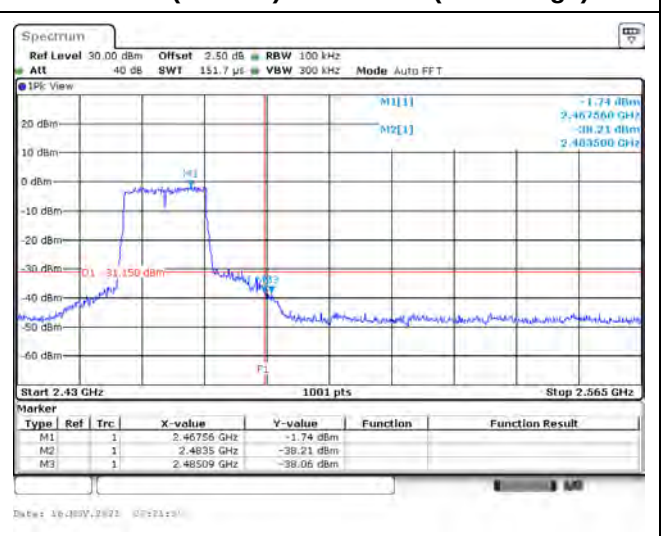


802.11n (20 MHz) / 2437 MHz



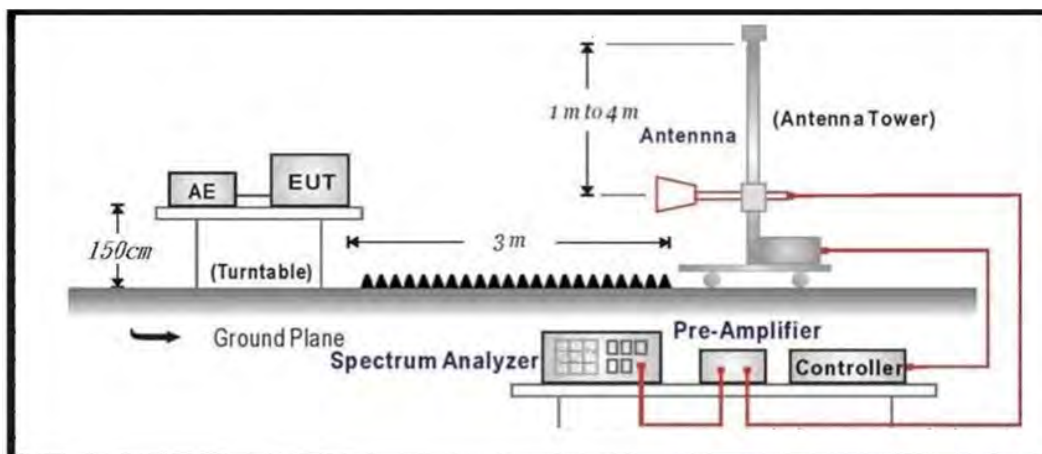
802.11n (20 MHz) / 2462 MHz



802.11b / 2412 MHz (Band Edge)**802.11b / 2462 MHz (Band Edge)****802.11g / 2412 MHz (Band Edge)****802.11g / 2462 MHz (Band Edge)****802.11n (20 MHz) / 2412 MHz (Band Edge)****802.11n (20 MHz) / 2462 MHz (Band Edge)**

6. Radiated Emission Band Edge

6.1. Test Setup



6.2. Test Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 30 dB below the level of the fundamental or to the general radiated emission limit in paragraph 15.209, whichever is the lesser attenuation.

Frequency (MHz)	Field strength (uV/m)	Field strength (dBuV/m)	Measurement distance (m)
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
Above 960	500	54	3

Remarks:

1. Field strength (dBuV/m) = 20 log Field strength (uV/m)
2. In the Above Table, the tighter limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system

6.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to FHSS test procedure of FCC KDB 558074 D01 v05r02 for compliance to FCC 47CFR 15.247 requirements.

The EUT and its simulators are placed on a turn table which is 1.5 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

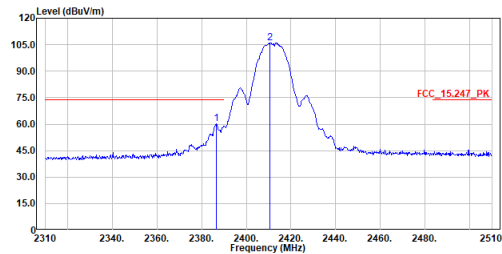
Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated measurement.

6.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247.

6.5. Test Result of Radiated Emission Band Edge

Site :CB2-H
Condition :3m Horizontal
Mode :11b_TX_2412MHz
Test by :Cyril

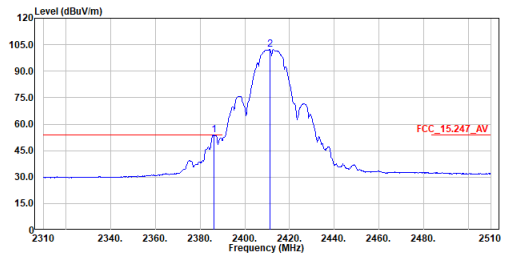


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2386.400	60.22	74.00	-13.78	46.75	13.47	Peak
2	2410.600	106.04	-----	-----	92.43	13.61	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :CB2-H
Condition :3m Horizontal
Mode :11b_TX_2412MHz
Test by :Cyril

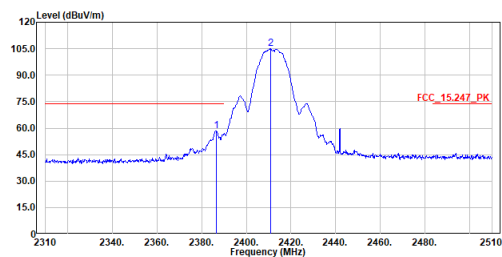


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2386.200	53.73	54.00	-0.27	40.26	13.47	Average
2	2411.200	102.38	-----	-----	88.77	13.61	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :CB2-H
Condition :3m Vertical
Mode :11b_TX_2412MHz
Test by :Cyril

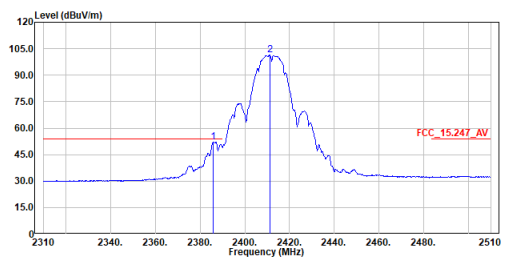


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2386.400	58.57	74.00	-15.43	45.10	13.47	Peak
2	2410.800	104.89	-----	-----	91.28	13.61	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :CB2-H
Condition :3m Vertical
Mode :11b_TX_2412MHz
Test by :Cyril

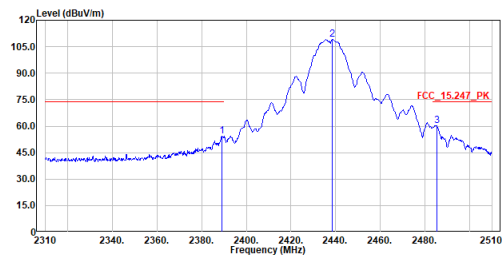


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2386.000	52.03	54.00	-1.97	38.57	13.46	Average
2	2411.200	101.30	-----	-----	87.69	13.61	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :CB2-H
Condition :3m Horizontal
Mode :11b_TX_2437MHz
Test by :Cyril

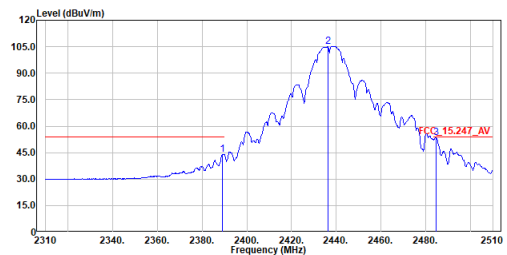


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2389.200	54.42	74.00	-19.58	40.94	13.48	Peak
2	2438.600	109.05	-----	-----	95.26	13.79	Peak
3	2485.200	60.39	74.00	-13.61	46.31	14.08	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :CB2-H
Condition :3m Horizontal
Mode :11b_TX_2437MHz
Test by :Cyril

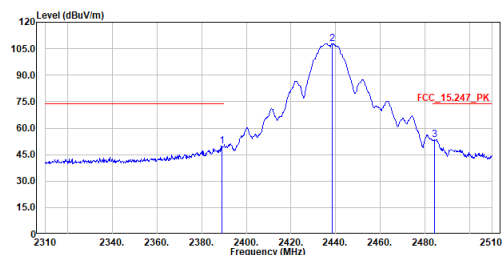


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2389.200	44.10	54.00	-9.90	30.62	13.48	Average
2	2436.200	105.11	-----	-----	91.33	13.78	Average
3	2484.800	53.54	54.00	-0.46	39.47	14.07	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :CB2-H
Condition :3m Vertical
Mode :11b_TX_2437MHz
Test by :Cyril

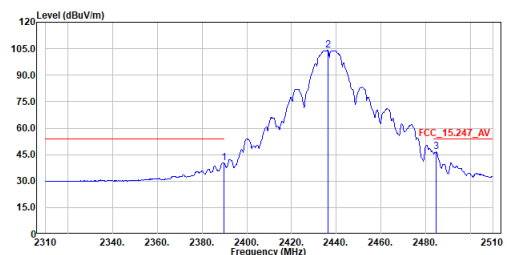


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2389.200	49.70	74.00	-24.30	36.22	13.48	Peak
2	2438.600	107.87	-----	-----	94.08	13.79	Peak
3	2484.400	53.35	74.00	-20.65	39.28	14.07	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :CB2-H
Condition :3m Vertical
Mode :11b_TX_2437MHz
Test by :Cyril

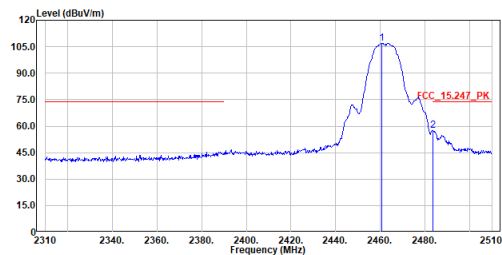


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2389.800	40.13	54.00	-13.87	26.65	13.48	Average
2	2436.200	104.08	-----	-----	90.30	13.78	Average
3	2484.800	46.48	54.00	-7.52	32.41	14.07	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :CB2-H
Condition :3m Horizontal
Mode :11b_TX_2462MHz
Test by :Cyril

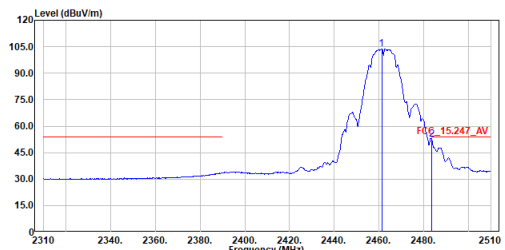


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2460.800	107.03	-----	-----	93.11	13.92	Peak
2	2483.600	57.48	74.00	-16.52	43.41	14.07	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :CB2-H
Condition :3m Horizontal
Mode :11b_TX_2462MHz
Test by :Cyril

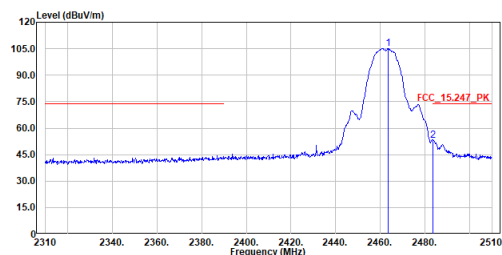


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2461.200	103.83	-----	-----	89.91	13.92	Average
2	2483.600	52.64	54.00	-1.36	38.57	14.07	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :CB2-H
Condition :3m Vertical
Mode :11b_TX_2462MHz
Test by :Cyril

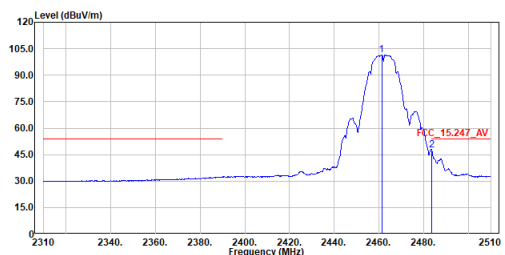


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2463.600	105.00	-----	-----	91.06	13.94	Peak
2	2483.600	53.14	74.00	-20.86	39.07	14.07	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :CB2-H
Condition :3m Vertical
Mode :11b_TX_2462MHz
Test by :Cyril

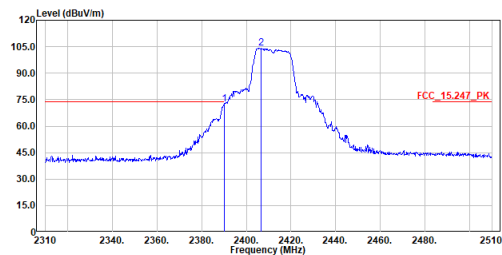


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2461.200	101.56	-----	-----	87.64	13.92	Average
2	2483.600	47.50	54.00	-6.50	33.43	14.07	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :CB2-H
Condition :3m Horizontal
Mode :11g_TX_2412MHz
Test by :Ling

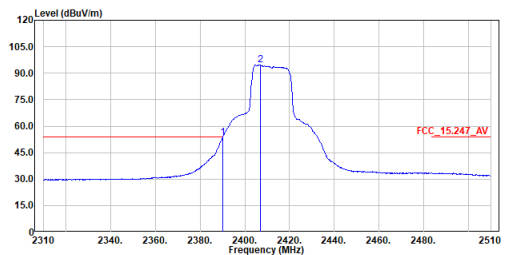


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2390.000	72.51	74.00	-1.49	59.03	13.48	Peak
2	2406.800	104.03	-----	-----	90.44	13.59	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :CB2-H
Condition :3m Horizontal
Mode :11g_TX_2412MHz
Test by :Ling

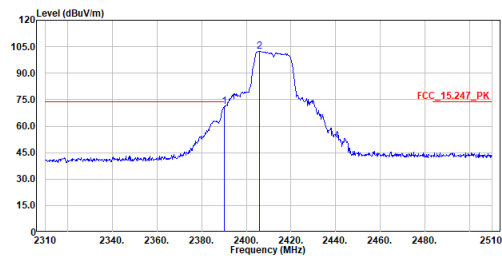


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2390.000	53.51	54.00	-0.49	40.03	13.48	Average
2	2406.800	94.61	-----	-----	81.02	13.59	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :CB2-H
Condition :3m Vertical
Mode :11g_TX_2412MHz
Test by :Ling

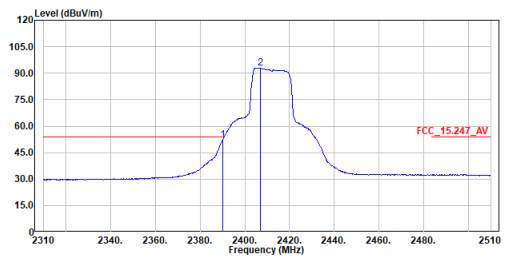


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2390.000	71.27	74.00	-2.73	57.79	13.48	Peak
2	2406.800	102.35	-----	-----	88.76	13.59	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :CB2-H
Condition :3m Vertical
Mode :11g_TX_2412MHz
Test by :Ling

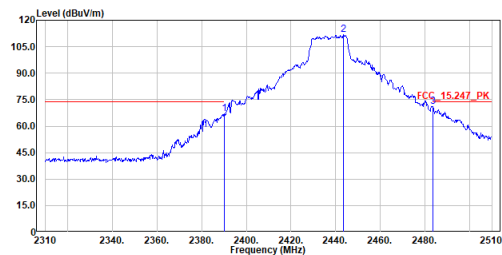


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2390.000	52.17	54.00	-1.83	38.69	13.48	Average
2	2406.800	92.90	-----	-----	79.31	13.59	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :CB2-H
Condition :3m Horizontal
Mode :11g_TX_2437MHz
Test by :Ling

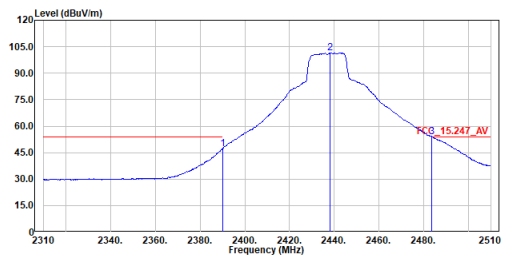


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2390.000	66.99	74.00	-7.01	53.51	13.48	Peak
2	2443.400	111.82	-----	-----	98.00	13.82	Peak
3	2483.600	70.95	74.00	-3.05	56.88	14.07	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :CB2-H
Condition :3m Horizontal
Mode :11g_TX_2437MHz
Test by :Ling

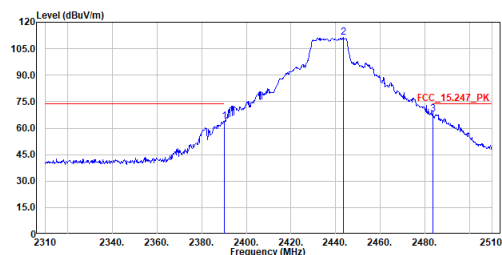


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2390.000	47.23	54.00	-6.77	33.75	13.48	Average
2	2438.000	101.44	-----	-----	87.66	13.78	Average
3	2483.600	53.91	54.00	-0.09	39.84	14.07	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :CB2-H
Condition :3m Vertical
Mode :11g_TX_2437MHz
Test by :Ling

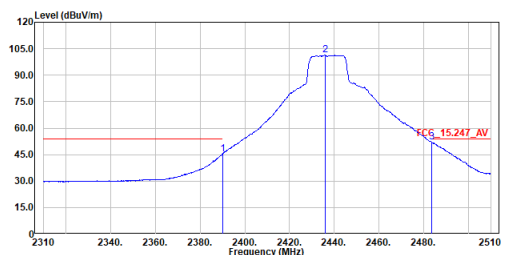


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2390.000	63.95	74.00	-10.05	50.47	13.48	Peak
2	2443.600	111.26	-----	-----	97.44	13.82	Peak
3	2483.600	67.91	74.00	-6.09	53.84	14.07	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :CB2-H
Condition :3m Vertical
Mode :11g_TX_2437MHz
Test by :Ling

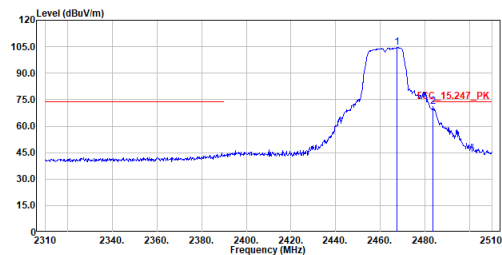


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2390.000	45.46	54.00	-8.54	31.98	13.48	Average
2	2435.800	101.35	-----	-----	87.58	13.77	Average
3	2483.600	51.90	54.00	-2.10	37.83	14.07	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :CB2-H
Condition :3m Horizontal
Mode :11g_TX_2462MHz
Test by :Ling

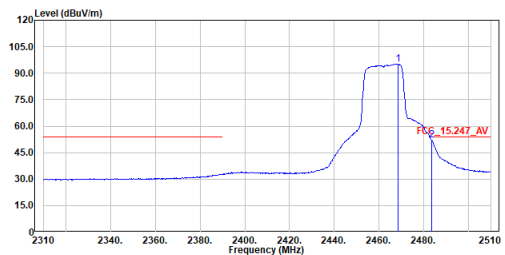


No.	Frequency MHz	Level dBuV/m	Limit dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2467.400	104.61	-----	-----	90.65	13.96	Peak
2	2483.600	71.07	74.00	-2.93	57.00	14.07	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :CB2-H
Condition :3m Horizontal
Mode :11g_TX_2462MHz
Test by :Ling

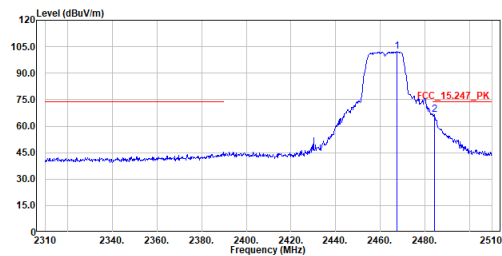


No.	Frequency MHz	Level dBuV/m	Limit dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2468.400	95.06	-----	-----	81.08	13.98	Average
2	2483.600	51.98	54.00	-2.02	37.91	14.07	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :CB2-H
Condition :3m Vertical
Mode :11g_TX_2462MHz
Test by :Ling

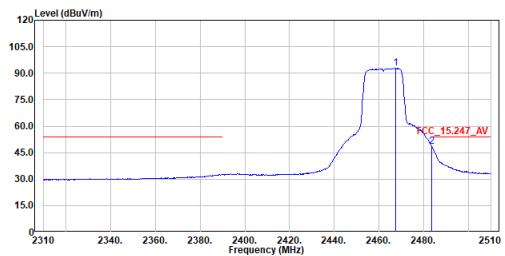


No.	Frequency MHz	Level dBuV/m	Limit dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2467.400	102.12	-----	-----	88.16	13.96	Peak
2	2484.400	66.43	74.00	-7.57	52.36	14.07	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :CB2-H
Condition :3m Vertical
Mode :11g_TX_2462MHz
Test by :Ling

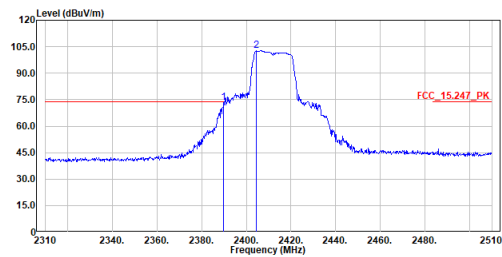


No.	Frequency MHz	Level dBuV/m	Limit dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2467.600	92.72	-----	-----	78.76	13.96	Average
2	2483.600	48.62	54.00	-5.38	34.55	14.07	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :CB2-H
Condition :3m Horizontal
Mode :11n20_TX_2412MHz
Test by :Cyril

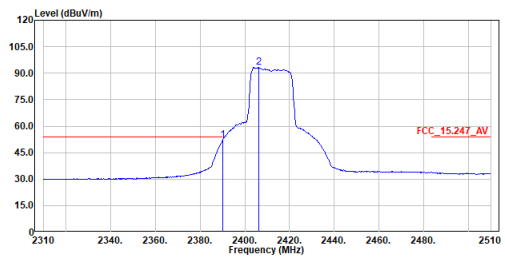


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2389.800	73.16	74.00	-0.84	59.68	13.48	Peak
2	2404.600	102.70	-----	-----	89.13	13.57	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :CB2-H
Condition :3m Horizontal
Mode :11n20_TX_2412MHz
Test by :Cyril

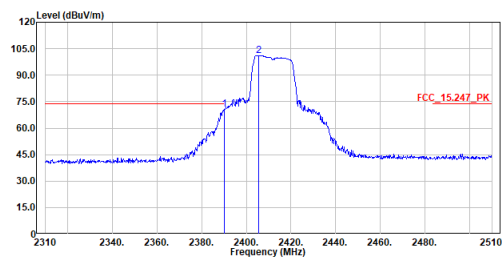


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2390.000	51.87	54.00	-2.13	38.39	13.48	Average
2	2406.200	93.18	-----	-----	79.59	13.59	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :CB2-H
Condition :3m Vertical
Mode :11n20_TX_2412MHz
Test by :Cyril

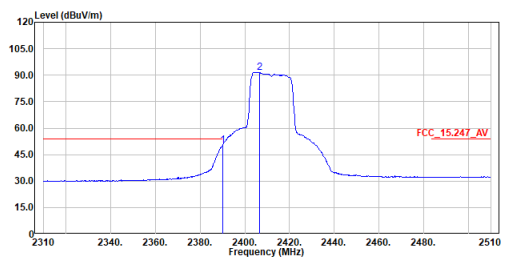


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2390.000	70.72	74.00	-3.28	57.24	13.48	Peak
2	2404.400	101.15	-----	-----	87.56	13.59	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :CB2-H
Condition :3m Vertical
Mode :11n20_TX_2412MHz
Test by :Cyril

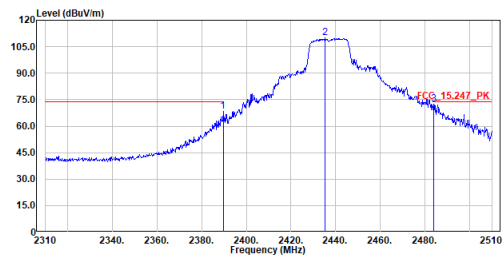


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2390.000	50.43	54.00	-3.57	36.95	13.48	Average
2	2406.600	91.67	-----	-----	78.08	13.59	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :CB2-H
Condition :3m Horizontal
Mode :11n20_TX_2437MHz
Test by :Cyril

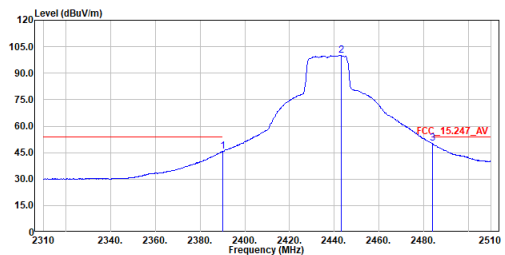


No.	Frequency MHz	Level dBuV/m	Limit dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2389.600	68.16	74.00	-5.84	54.68	13.48	Peak
2	2435.400	109.84	74.00	35.84	96.07	13.77	Peak
3	2483.800	72.65	74.00	-1.35	58.58	14.07	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :CB2-H
Condition :3m Horizontal
Mode :11n20_TX_2437MHz
Test by :Cyril

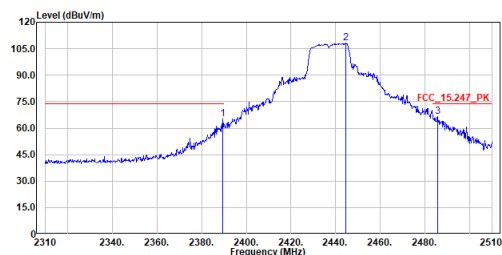


No.	Frequency MHz	Level dBuV/m	Limit dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2390.000	45.70	54.00	-8.30	32.22	13.48	Average
2	2443.000	100.01	74.00	26.01	86.19	13.82	Average
3	2483.800	50.15	54.00	-3.85	36.08	14.07	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :CB2-H
Condition :3m Vertical
Mode :11n20_TX_2437MHz
Test by :Cyril

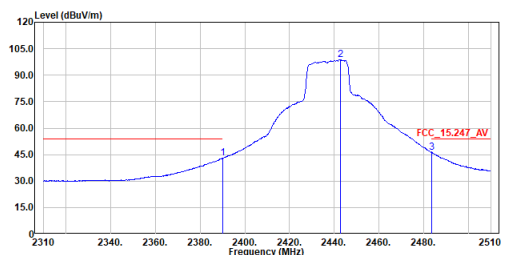


No.	Frequency MHz	Level dBuV/m	Limit dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2389.400	65.04	74.00	-8.96	51.56	13.48	Peak
2	2444.600	108.06	74.00	34.06	94.24	13.82	Peak
3	2485.600	66.63	74.00	-7.37	52.55	14.08	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :CB2-H
Condition :3m Vertical
Mode :11n20_TX_2437MHz
Test by :Cyril

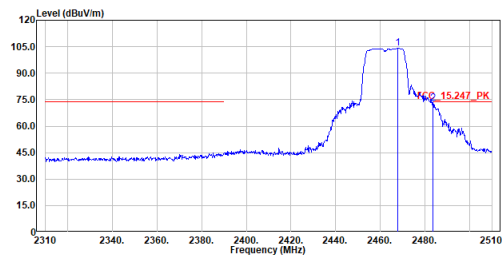


No.	Frequency MHz	Level dBuV/m	Limit dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2390.000	43.12	54.00	-10.88	29.64	13.48	Average
2	2442.600	98.67	74.00	24.67	84.85	13.82	Average
3	2483.600	46.39	54.00	-7.61	32.32	14.07	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :CB2-H
Condition :3m Horizontal
Mode :11n20_TX_2462MHz
Test by :Cyril

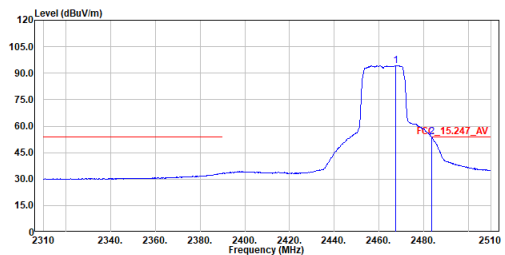


No.	Frequency MHz	Level dBuV/m	Limit dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2467.800	104.10	74.00	-1.07	90.14	13.96	Peak
2	2483.600	72.93	74.00		58.86	14.07	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :CB2-H
Condition :3m Horizontal
Mode :11n20_TX_2462MHz
Test by :Cyril

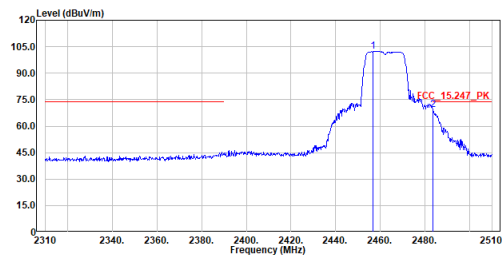


No.	Frequency MHz	Level dBuV/m	Limit dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2467.400	94.41	54.00	-0.27	80.45	13.96	Average
2	2483.600	53.73	54.00		39.66	14.07	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :CB2-H
Condition :3m Vertical
Mode :11n20_TX_2462MHz
Test by :Cyril

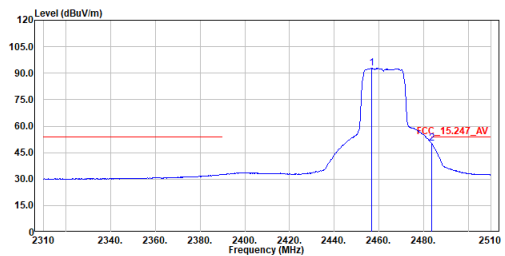


No.	Frequency MHz	Level dBuV/m	Limit dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2456.600	102.43	74.00	-4.66	88.53	13.90	Peak
2	2483.600	69.34	74.00		55.27	14.07	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :CB2-H
Condition :3m Vertical
Mode :11n20_TX_2462MHz
Test by :Cyril



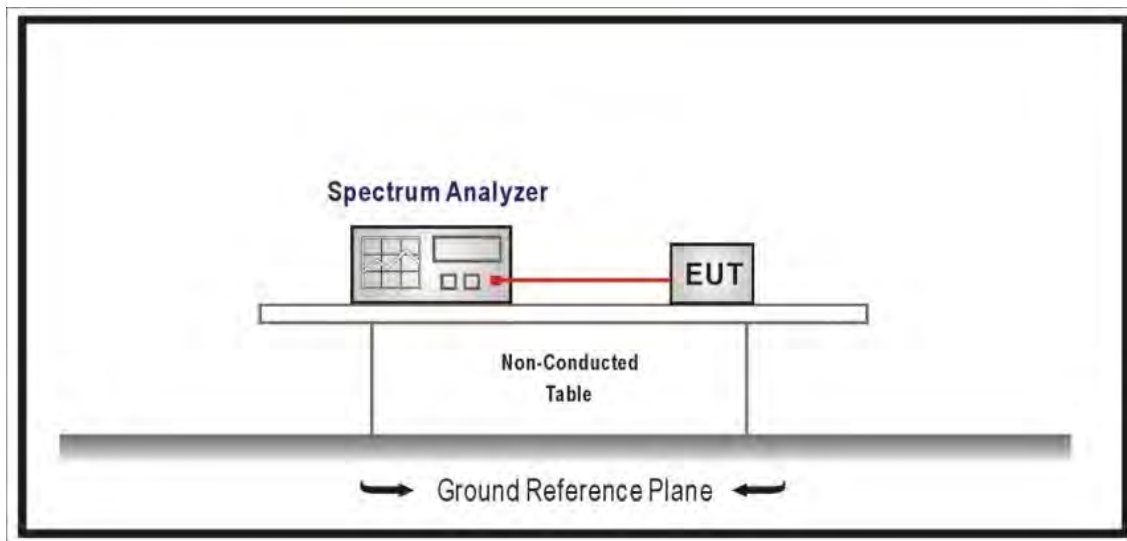
No.	Frequency MHz	Level dBuV/m	Limit dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2456.600	92.90	54.00	-3.96	79.00	13.90	Average
2	2483.600	50.04	54.00		35.97	14.07	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

7. Occupied Bandwidth & DTS Bandwidth

7.1. Test Setup



7.2. Test Limit

The 6 dB bandwidth: ≥ 0.50 MHz.

Occupied Bandwidth: NA

7.3. Test Procedures

The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure of KDB 558074 D01 V05r02 for compliance to FCC 47CFR 15.247 requirements.

7.4. Test Specification

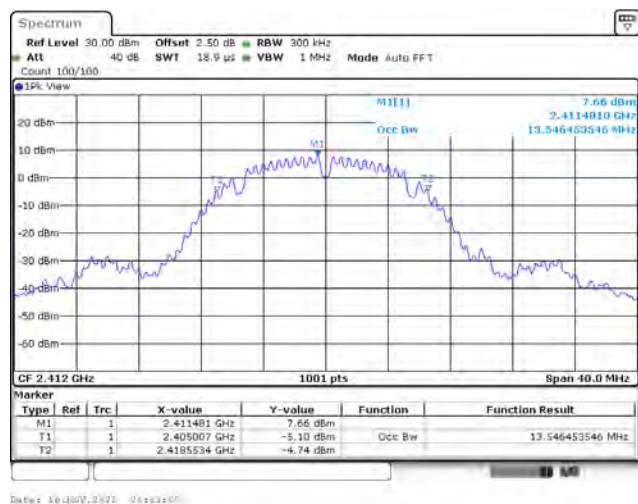
According to FCC Part 15 Subpart C Paragraph 15.247.

7.5. Test Result of Occupied Bandwidth

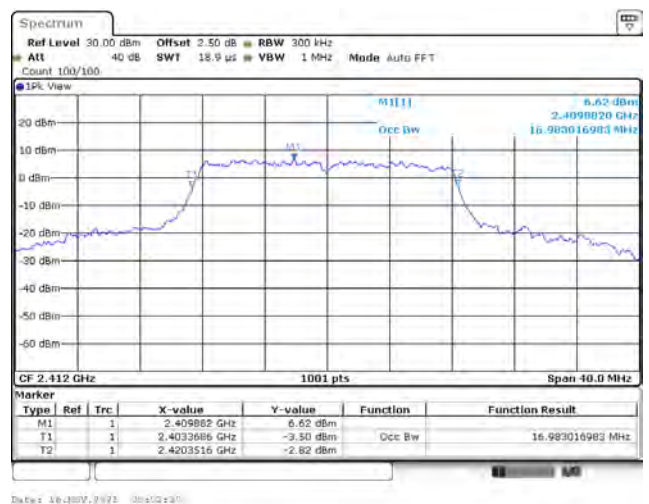
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	Limit (MHz)
802.11b	1	2412	13.546	-
	6	2437	13.506	-
	11	2462	13.387	-
802.11g	1	2412	16.983	-
	6	2437	16.903	-
	11	2462	16.863	-
802.11n (20 MHz)	1	2412	18.022	-
	6	2437	17.982	-
	11	2462	17.982	-

Spectrum plot of maximum value

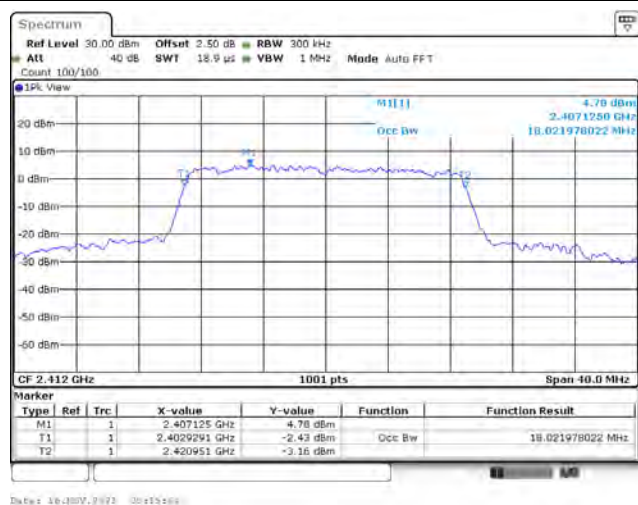
802.11b / 2412 MHz



802.11g / 2412 MHz



802.11n (20 MHz) / 2412 MHz

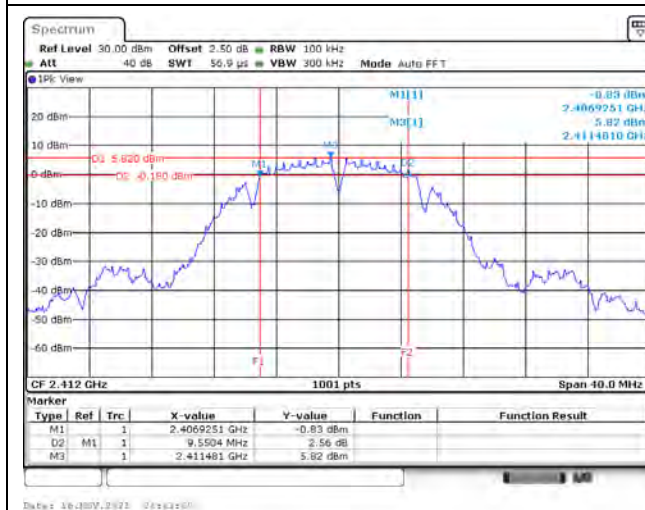


7.6. Test Result of DTS Bandwidth

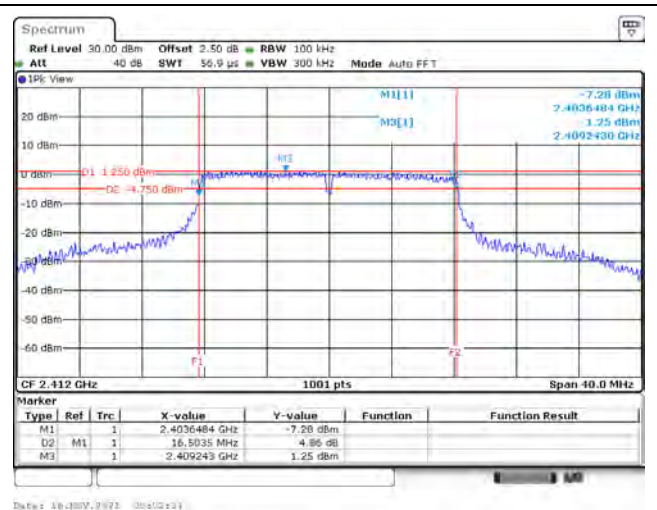
Modulation	Channel	Frequency (MHz)	DTS Bandwidth (MHz)	Limit (MHz)	Result
802.11b	1	2412	9.550	≥ 0.50	Pass
	6	2437	9.710	≥ 0.50	Pass
	11	2462	9.710	≥ 0.50	Pass
802.11g	1	2412	16.504	≥ 0.50	Pass
	6	2437	16.544	≥ 0.50	Pass
	11	2462	16.544	≥ 0.50	Pass
802.11n (20 MHz)	1	2412	17.702	≥ 0.50	Pass
	6	2437	17.782	≥ 0.50	Pass
	11	2462	17.822	≥ 0.50	Pass

Spectrum plot of worst value

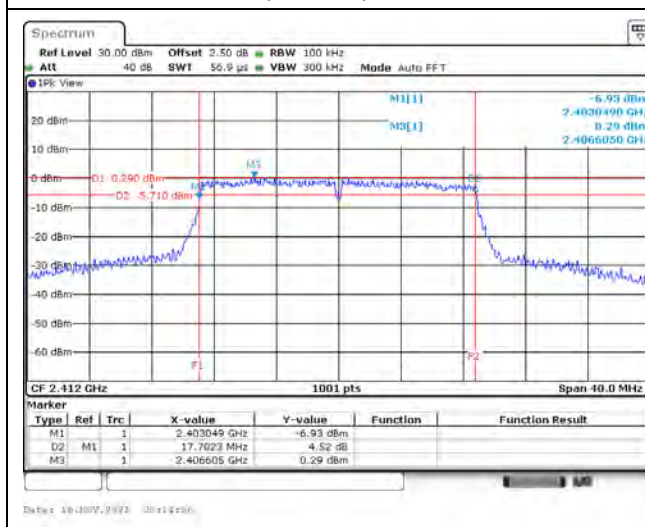
802.11b / 2412 MHz



802.11g / 2412 MHz

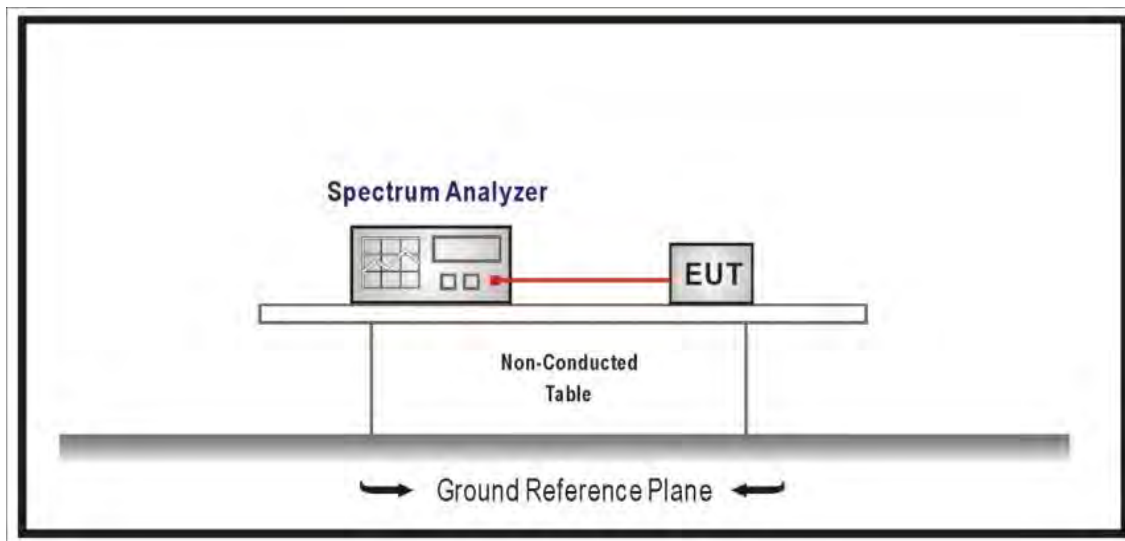


802.11n (20 MHz) / 2412 MHz



8. Maximum Power Spectral Density

8.1. Test Setup



8.2. Test Limit

The peak power spectral density conducted from the intentional radiated to the antenna shall not be greater than +8 dBm in any 3 kHz band during any time interval of continuous transmission.

8.3. Test Procedures

The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure of KDB 558074 D01 V05r02 for compliance to FCC 47CFR 15.247 requirements.

8.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247.

8.5. Test Result of Maximum Power Spectral Density

Modulation	Channel	Frequency (MHz)	Power Spectral Density (dBm / 3kHz)		Limit (dBm / 3kHz)	Result
			Ant. 0	Total		
802.11b	1	2412	-16.140	-16.140	≤ 8.00	Pass
	6	2437	-16.360	-16.360	≤ 8.00	Pass
	11	2462	-16.500	-16.500	≤ 8.00	Pass
802.11g	1	2412	-22.780	-22.780	≤ 8.00	Pass
	6	2437	-21.710	-21.710	≤ 8.00	Pass
	11	2462	-21.690	-21.690	≤ 8.00	Pass
802.11n (20 MHz)	1	2412	-22.150	-22.150	≤ 8.00	Pass
	6	2437	-21.250	-21.250	≤ 8.00	Pass
	11	2462	-21.270	-21.270	≤ 8.00	Pass

Note: Total power spectral density = power spectral density + duty factor, and the duty factor refer to section 1.10.

