

FCC Test Report

Product Name : JP6S
Model No. : P06SC, P06SA
FCC ID : 2AZJPJP6S

Applicant : Securus Technologies, LLC
Address : 4000 International Parkway, Carrollton Texas, United States 75007

Date of Receipt : Jul. 08, 2021
Issued Date : Nov. 24, 2021
Report No. : 2170323R-E3032110113-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 : JP6S
Applicant : Securus Technologies, LLC
Address : 4000 International Parkway, Carrollton Texas, United States 75007
Manufacturer : Securus Technologies, LLC
Address : 4000 International Parkway, Carrollton Texas, United States 75007
Model No. : P06SC, P06SA
FCC ID : 2AZJPJP6S
EUT Voltage : DC 5V (adapter)
DC 3.7V (battery)
Testing Voltage : AC 120V/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 : 

(Amelia Wu / Project Specialist)

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	Nov. 24, 2021

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1. General Information

1.1. EUT Description

Product Name	JP6S	
Model No.	P06SC, P06SA	
Frequency Range / Channel Number	IEEE 802.11b/g	2412 ~ 2462 MHz / 11 Channels
	IEEE 802.11n (20 MHz)	2412 ~ 2462 MHz / 11 Channels
	IEEE 802.11n (40 MHz)	2422 ~ 2452 MHz / 7 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

Accessories Information				
No.	Equipment Name	Brand Name	Model No.	Rating
1	Lithium Ion Battery	DongGuan GanFeng	6494A0	DC 3.7V 8000mAh/29.6Wh

The difference for each model is shown as below:

EUT	Model No.	Description
1	P06SC (Main Model)	The main model is P06SC with camera design. For the variant model P06SA, the Camera, FPC connector, and related RCs are not populated.
2	P06SA (Variant Model)	

Antenna Information				
Ant.	Brand Name	Model No.	Type	Antenna Gain (dBi)
0	PCI Private Limited	SRPC000101	PCB	2.86

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

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
001	2412 MHz	002	2417 MHz	003	2422 MHz	004	2427 MHz
005	2432 MHz	006	2437 MHz	007	2442 MHz	008	2447 MHz
009	2452 MHz	010	2457 MHz	011	2462 MHz	-	-

IEEE 802.11n (40 MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
003	2422 MHz	004	2427 MHz	005	2432 MHz	006	2437 MHz
007	2442 MHz	008	2447 MHz	009	2452 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	EUT	Modulation	Channel	Antenna	Result
AC Power Line Conducted Emission	Mode 1	1	11b	6	0	Pass
Maximum Conducted Output Power	Mode 1	1	11b	1/6/11	0	Pass
			11g	1/6/11	0	Pass
			11n (20 MHz)	1/6/11	0	Pass
			11n (40 MHz)	3/6/9	0	Pass
Radiated Emission Below 1 GHz	Mode 1	1/2	11b	6	0	Pass
Radiated Emission Above 1 GHz	Mode 1	1	11b	1/6/11	0	Pass
			11g	1/6/11	0	Pass
			11n (20 MHz)	1/6/11	0	Pass
			11n (40 MHz)	3/6/9	0	Pass
		2	11b	6	0	Pass
Antenna Port Conducted Emission	Mode 1	1	11b	1/6/11	0	Pass
			11g	1/6/11	0	Pass
			11n (20 MHz)	1/6/11	0	Pass
			11n (40 MHz)	3/6/9	0	Pass
Radiated Emission Band Edge	Mode 1	1	11b	1/6/11	0	Pass
			11g	1/6/11	0	Pass
			11n (20 MHz)	1/6/11	0	Pass
			11n (40 MHz)	3/6/9	0	Pass
		2	11b	6	0	Pass
Occupied Bandwidth & DTS Bandwidth	Mode 1	1	11b	1/6/11	0	Pass
			11g	1/6/11	0	Pass
			11n (20 MHz)	1/6/11	0	Pass
			11n (40 MHz)	3/6/9	0	Pass
Maximum Power Spectral Density	Mode 1	1	11b	1/6/11	0	Pass
			11g	1/6/11	0	Pass
			11n (20 MHz)	1/6/11	0	Pass
			11n (40 MHz)	3/6/9	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)/802.11n (40 MHz) are MCS 0, Nss1.
3. For below 1 GHz radiated emission and AC Power Line Conducted Emission have performed all modes of operation were investigated and the worst-case emissions are reported.
4. The EUT was performed at X axis, Y axis and Z axis position for radiated emission and band edge tests. The worst case was found at Z axis, so the measurement will follow this same test configuration.
5. The EUT 2 was performed radiated emission and radiated emission band edge test only, and measurement was followed the worst case of EUT 1.

1.3. Comments and Remarks

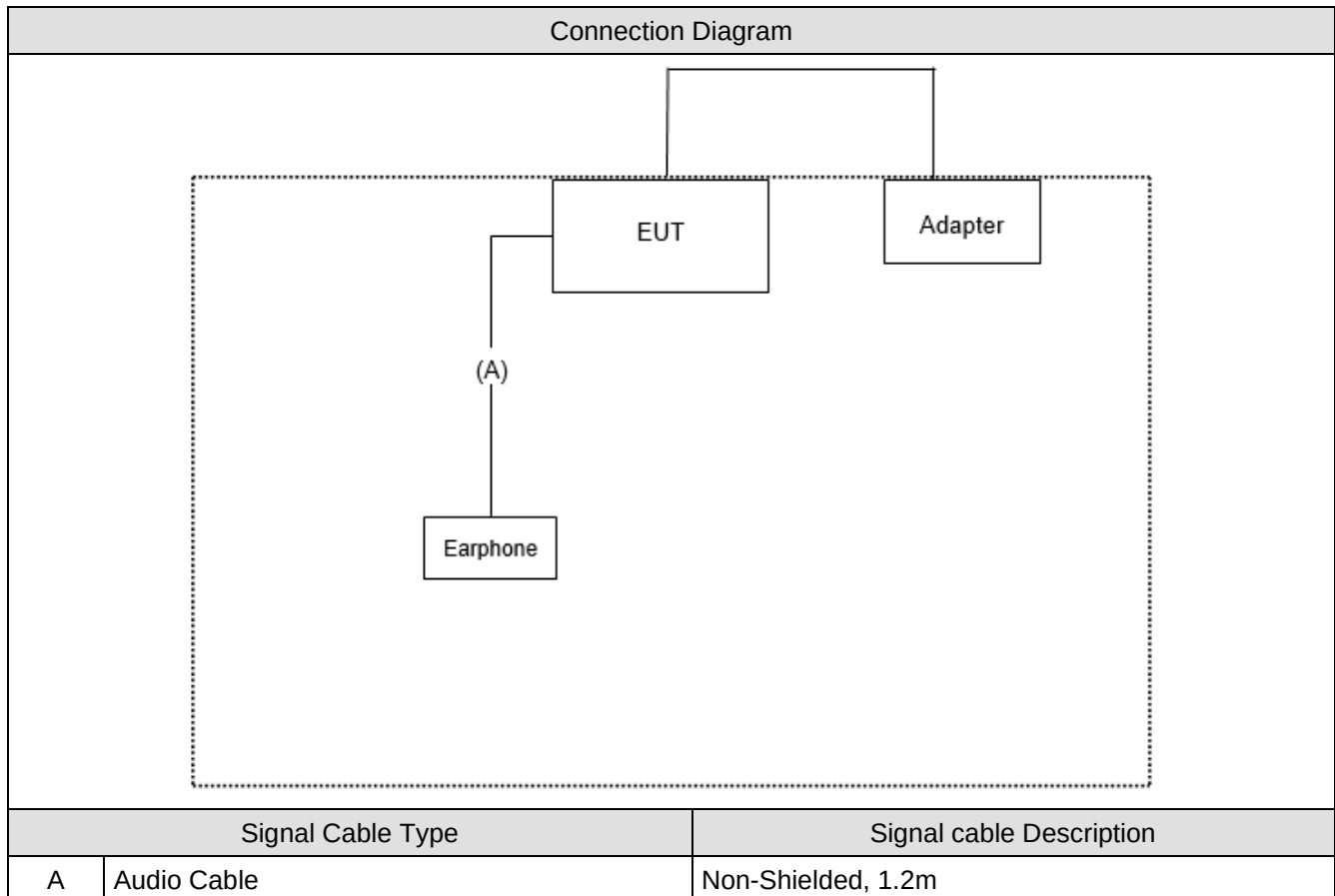
The product specification and testing instructions for the EUT declared in the report are provided by the manufacturer who will take all responsibilities for the accuracy.

1.4. Tested System Details

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

	Product	Manufacturer	Model No.	Serial No.
1	Adapter	Shenzhen Mi Delan Electronic Technology Co., Ltd.	AS015C-0502500UC	N/A
2	Earphone	Shenzhen Huaxunxing Technology Co., Ltd.	HX-20208002	N/A

1.5. Configuration of Tested System



1.6. EUT Operation of during Test

1	Set the EUT as shown.
2	Start engineering mode
3	Configure test mode, test channel and data rate.
4	Let the EUT start sending transmit continuously
5	Verify that device is working properly.

1.7. Test Facility

Ambient conditions in the laboratory:

Items	Test Item	EUT	Actually	Tested by	Test Date	Test Site
Temperature (°C)	AC Power Line Conducted Emission	1	25.6	Lion Wang	2021/10/8	SR2-H
Humidity (%RH)			55.7			
Temperature (°C)	Maximum Conducted Output Power	1	23.5	Elwin Lin	2021/9/6	SR12-H
Humidity (%RH)			60			
Temperature (°C)	Radiated Emission	1	24.5	Cyril Chen	2021/9/10	CB2-H
Humidity (%RH)			62.8			
Temperature (°C)		2	23.5 ~ 24.1	Getaz Yang	2021/11/3 ~ 2021/11/4	CB2-H
Humidity (%RH)			61 ~ 64			
Temperature (°C)	Antenna Port Conducted Emission	1	23	Elwin Lin	2021/9/16	SR12-H
Humidity (%RH)			61			
Temperature (°C)	Radiated Emission Band Edge	1	23.7	Cyril Chen	2021/9/6	CB2-H
Humidity (%RH)			63.5			
Temperature (°C)		2	23.5 ~ 24.1	Getaz Yang	2021/11/3 ~ 2021/11/4	CB2-H
Humidity (%RH)			61 ~ 64			
Temperature (°C)	Occupied Bandwidth & DTS Bandwidth	1	23	Elwin Lin	2021/9/16	SR12-H
Humidity (%RH)			61			
Temperature (°C)	Maximum Power Spectral Density	1	23	Elwin Lin	2021/9/16	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	NA	NA

SR12-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
High Speed Peak Power Meter Dual Input	Anritsu	ML2496A	1602004	2020/11/30	2021/11/29
Pulse Power Sensor	Anritsu	MA2411B	1531043	2020/11/30	2021/11/29
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2021/01/25	2022/01/24
Pulse Power Sensor	Anritsu	MA2411B	1531044	2020/11/30	2021/11/29
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
Signal & Spectrum Analyzer	R&S	FSV40	101049	2021/03/31	2022/03/30

CB2-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	2020/10/12	2021/10/11
Signal Analyzer	R&S	FSVA40	101455	2021/10/21	2022/10/20
Signal & Spectrum Analyzer	R&S	FSV40	101049	2021/3/31	2022/3/30
Signal Analyzer	R&S	FSVA40	101435	2021/6/4	2022/6/3
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2021/1/25	2022/1/24
Trilog Broadband Antenna	Schwarzbeck	VULB 9168	1272	2021/08/20	2022/08/19
Bilog Antenna	Teseq	CBL6112D	23191	2021/2/26	2022/2/25
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	2020/11/16	2021/11/15
Coaxial Cable(13m)	Huber+Suhner	SF104	CB2-H	2021/8/17	2022/8/16
Radiated Software	AUDIX	e3 V9	CB2-H_1	NA	NA

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

1.9. Measurement Uncertainty

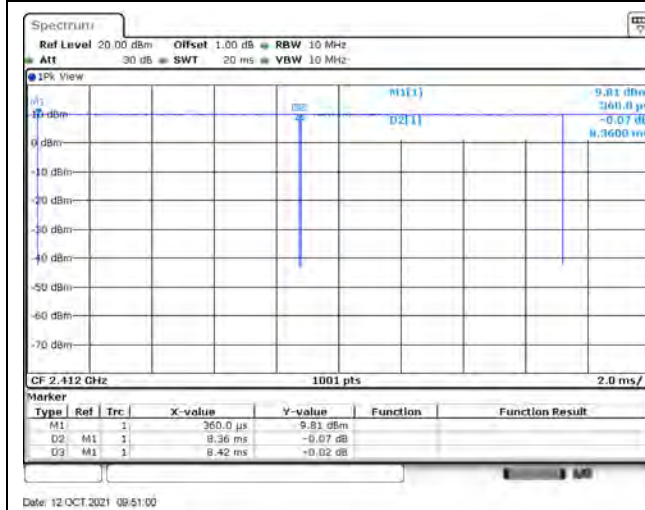
Uncertainties have been calculated according to the DEKRA internal document with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

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

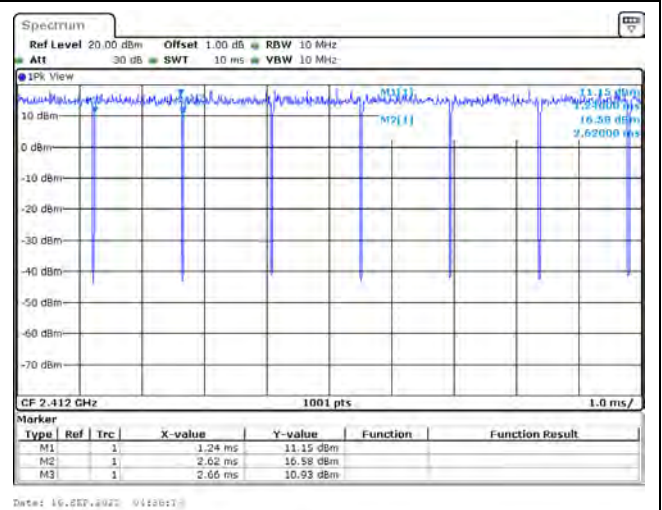
1.10. Duty Cycle

Modulation	On Times (ms)	On+Off Times (ms)	Duty Cycle (%)	Duty Factor (dB)	1/T Minimum VBW (kHz)
802.11b	8.360	8.420	99.29	0.031	0.010
802.11g	1.380	1.420	97.18	0.124	0.725
802.11n (20 MHz)	1.290	1.340	96.27	0.165	0.775
802.11n (40 MHz)	0.640	0.680	94.12	0.263	1.563

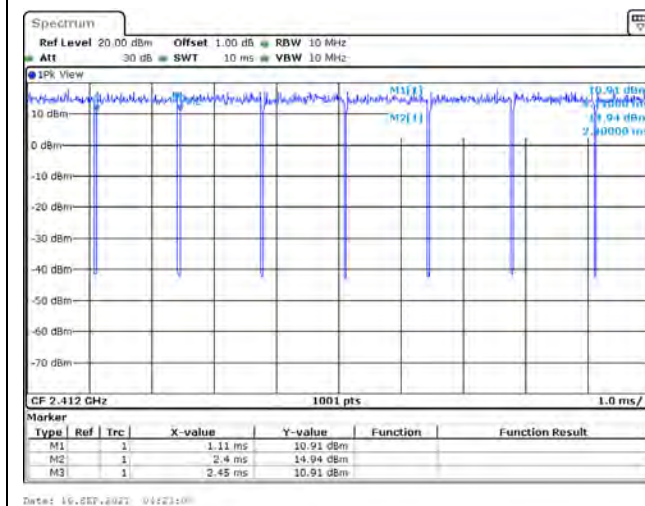
802.11b



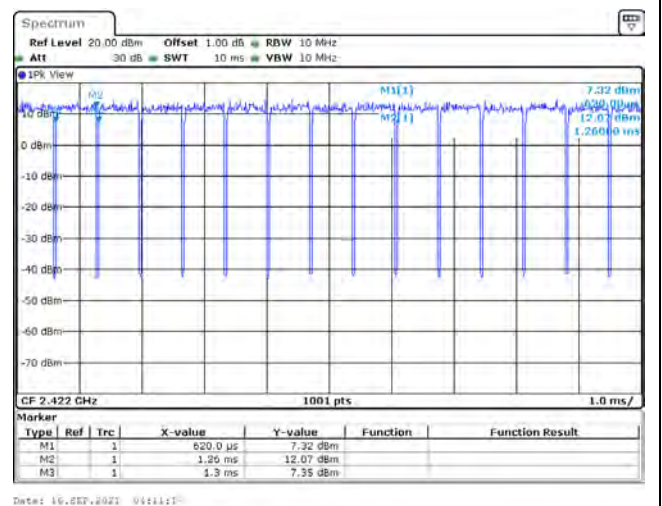
802.11g



802.11n (20 MHz)

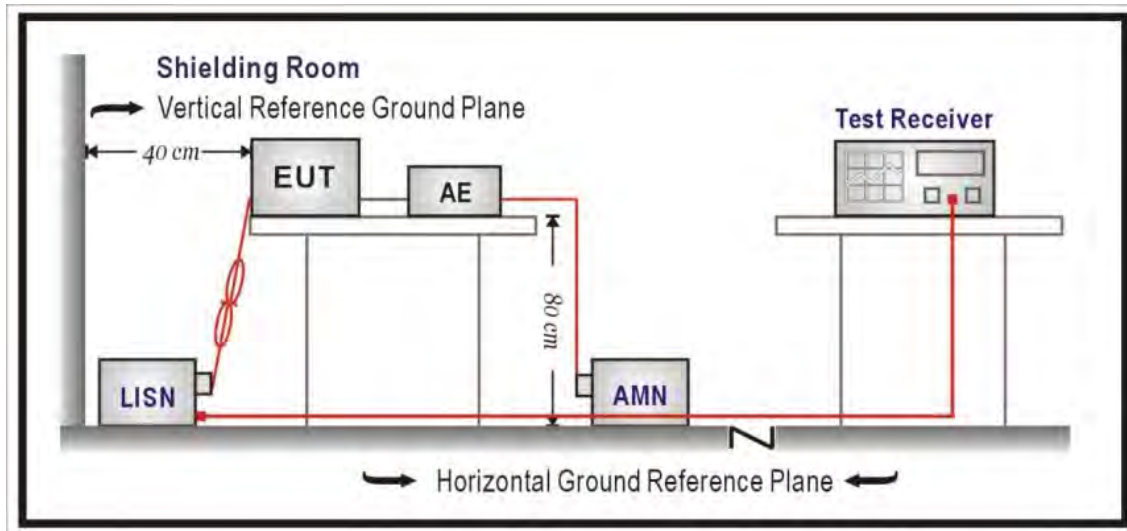


802.11n (40 MHz)



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.

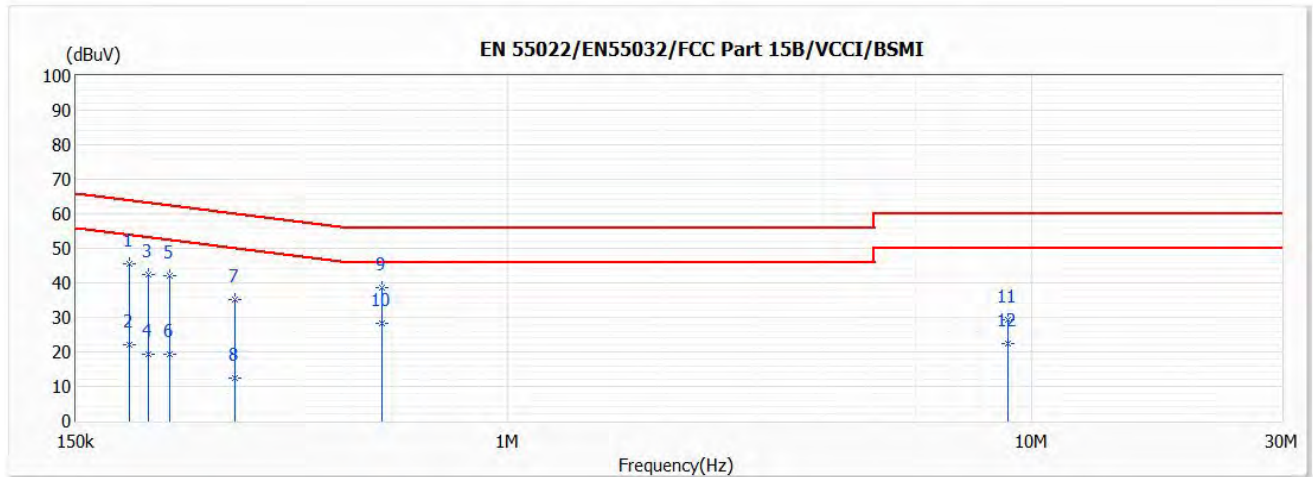
AC Power Line Conducted Emissions were investigated over the frequency range from 0.15 MHz to 30 MHz using a receiver bandwidth of 9 kHz.

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 Mode	Mode 1: Transmit	Phase	Line
Test Condition	802.11b / Ant. 0 / 2437 MHz		

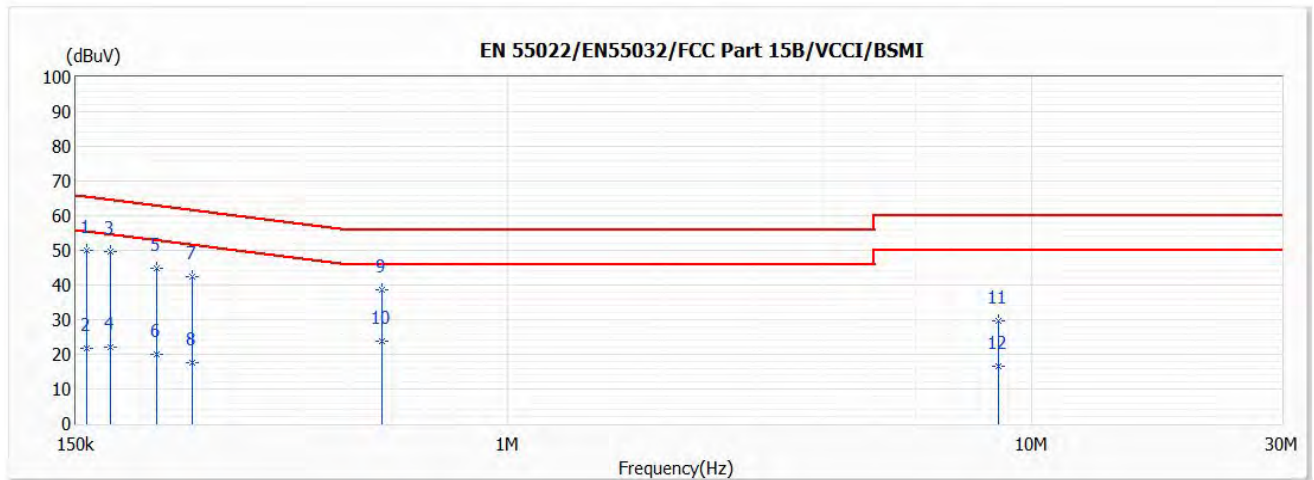


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.190	45.62	64.06	-18.44	35.99	9.63	QP
2	0.190	22.11	54.06	-31.95	12.48	9.63	AV
3	0.206	42.29	63.35	-21.06	32.65	9.64	QP
4	0.206	19.17	53.35	-34.18	9.53	9.64	AV
5	0.226	41.90	62.60	-20.70	32.26	9.64	QP
6	0.226	19.19	52.60	-33.41	9.55	9.64	AV
7	0.302	35.04	60.20	-25.16	25.39	9.65	QP
8	0.302	12.30	50.20	-37.90	2.65	9.65	AV
*9	0.574	38.63	56.00	-17.37	28.95	9.68	QP
10	0.574	28.12	46.00	-17.88	18.44	9.68	AV
11	9.020	29.47	60.00	-30.53	19.39	10.08	QP
12	9.020	22.43	50.00	-27.57	12.35	10.08	AV

Remark:

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 Mode	Mode 1: Transmit	Phase	Neutral
Test Condition	802.11b / Ant. 0 / 2437 MHz		



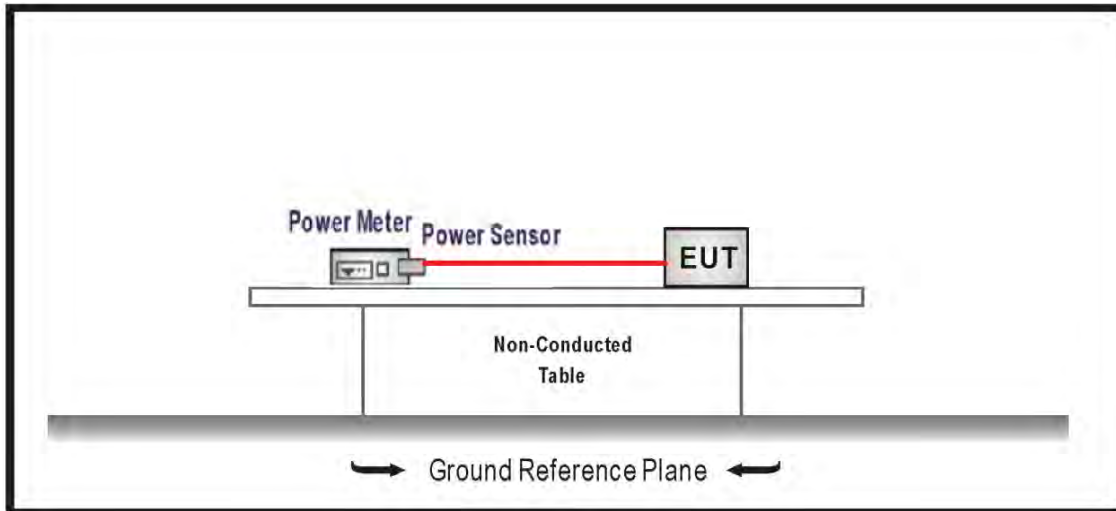
No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.157	49.98	65.60	-15.62	40.34	9.64	QP
2	0.157	21.64	55.60	-33.96	12.00	9.64	AV
*3	0.175	49.67	64.73	-15.06	40.03	9.64	QP
4	0.175	22.01	54.73	-32.72	12.37	9.64	AV
5	0.214	44.76	63.06	-18.30	35.12	9.64	QP
6	0.214	20.05	53.06	-33.01	10.41	9.64	AV
7	0.251	42.56	61.74	-19.18	32.92	9.64	QP
8	0.251	17.74	51.74	-34.00	8.10	9.64	AV
9	0.575	38.62	56.00	-17.38	28.93	9.69	QP
10	0.575	23.80	46.00	-22.20	14.11	9.69	AV
11	8.645	29.50	60.00	-30.50	19.40	10.10	QP
12	8.645	16.53	50.00	-33.47	6.43	10.10	AV

Remark:

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 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.

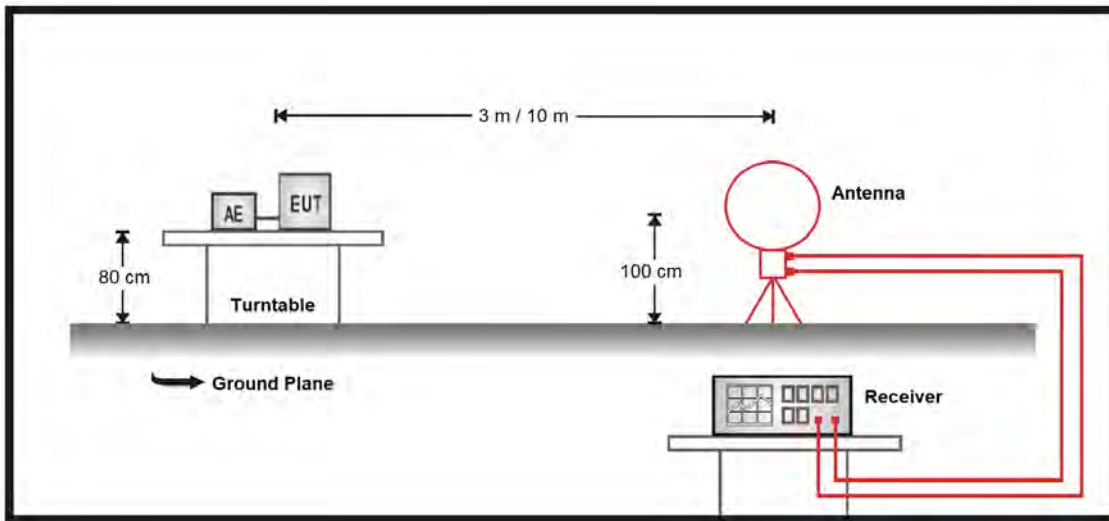
3.5. Test Result of Maximum Conducted Output Power

Modulation	Channel	Frequency (MHz)	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result
802.11b	1	2412	8.960	≤ 30.00	Pass
	6	2437	9.090	≤ 30.00	Pass
	11	2462	8.670	≤ 30.00	Pass
802.11g	1	2412	10.460	≤ 30.00	Pass
	6	2437	10.350	≤ 30.00	Pass
	11	2462	10.370	≤ 30.00	Pass
802.11n (20 MHz)	1	2412	10.410	≤ 30.00	Pass
	6	2437	10.360	≤ 30.00	Pass
	11	2462	10.390	≤ 30.00	Pass
802.11n (40 MHz)	3	2422	10.420	≤ 30.00	Pass
	6	2437	10.400	≤ 30.00	Pass
	9	2452	10.390	≤ 30.00	Pass

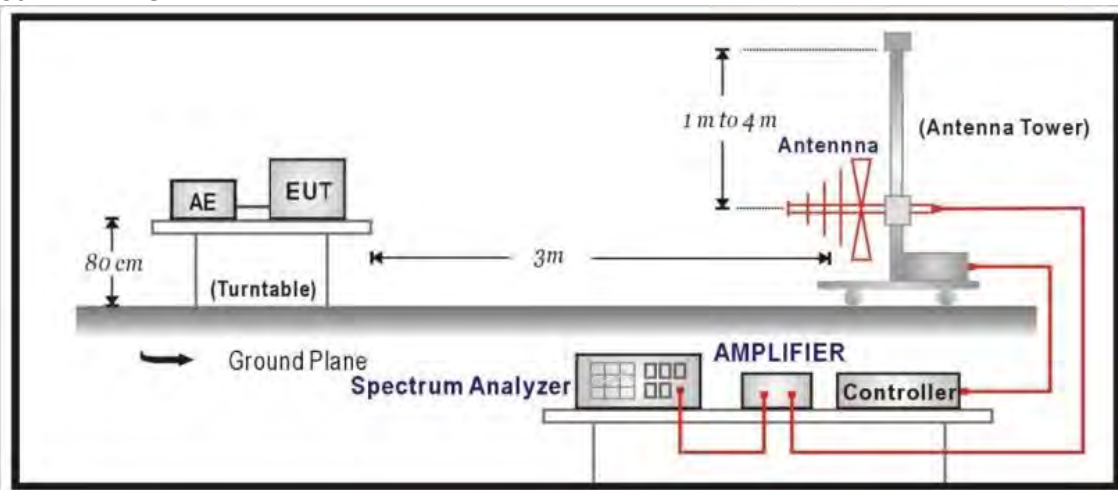
4. Radiated Emission

4.1. Test Setup

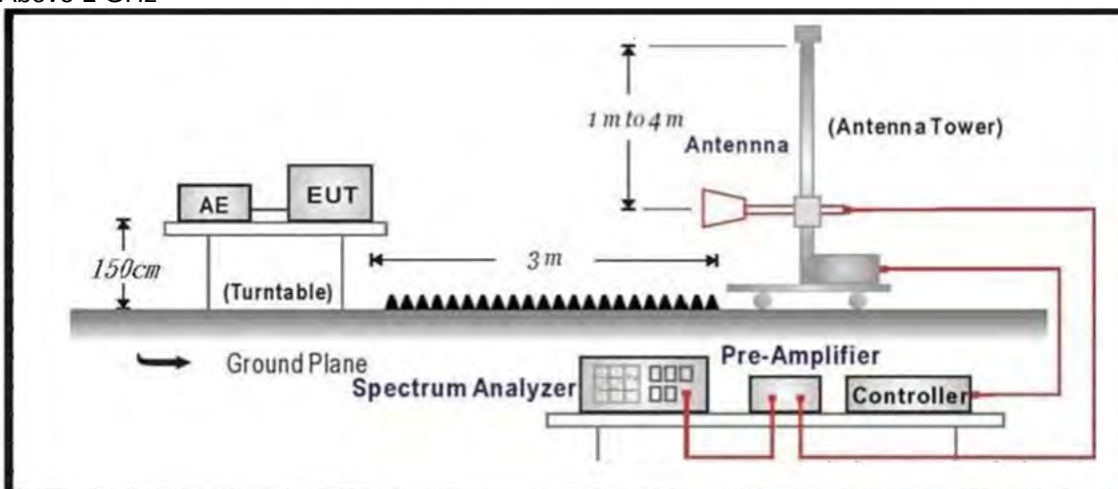
9 kHz ~ 30 MHz



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.

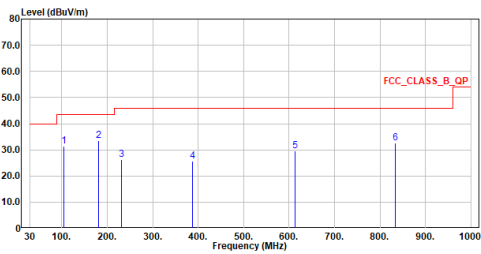
4.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247.

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

<For EUT 1>

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

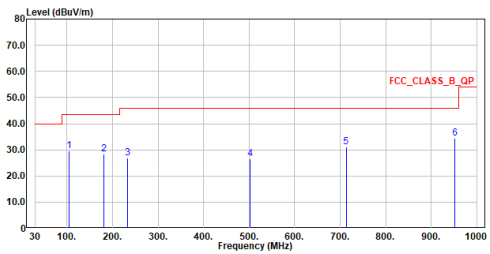


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	103.817	31.34	43.50	-12.16	38.09	-6.75	QP
2	180.059	33.36	43.50	-10.14	37.25	-3.89	QP
3	231.566	26.36	46.00	-19.64	31.23	-4.87	QP
4	388.124	25.63	46.00	-20.37	25.11	0.52	QP
5	612.970	29.65	46.00	-16.35	23.41	6.24	QP
6	833.839	32.67	46.00	-13.33	23.12	9.55	QP

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the 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



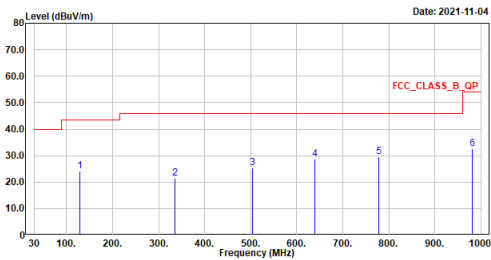
No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	103.914	29.51	43.50	-13.99	36.25	-6.74	QP
2	180.738	28.49	43.50	-15.01	32.44	-3.95	QP
3	232.439	26.94	46.00	-19.06	31.68	-4.74	QP
4	501.517	26.65	46.00	-19.35	23.37	3.28	QP
5	712.977	31.09	46.00	-14.91	23.42	7.67	QP
6	952.276	34.36	46.00	-11.64	23.29	11.07	QP

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.
5. The other emission levels were very low against the limit.

<For EUT 2>

Site :CB2-H
Condition :3m Horizontal
Mode :11b_TX_2462MHz
Test By :Getaz

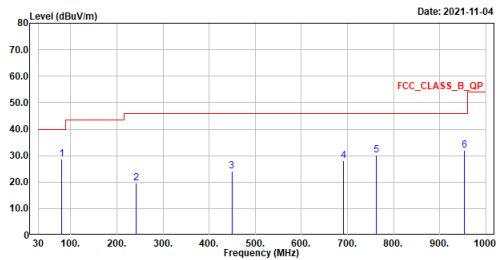


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	128.940	24.26	43.50	-19.24	28.21	-3.95	QP
2	334.580	21.58	46.00	-24.42	22.37	-0.79	QP
3	583.360	25.48	46.00	-20.52	22.12	3.36	QP
4	639.160	28.79	46.00	-17.21	22.25	6.54	QP
5	778.840	29.73	46.00	-16.27	20.80	8.93	QP
6	980.600	32.56	54.00	-21.44	21.09	11.47	QP

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.
5. The other emission levels were very low against the limit.

Site :CB2-H
Condition :3m Vertical
Mode :11b_TX_2462MHz
Test By :Getaz



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	80.440	28.62	40.00	-11.38	35.33	-6.71	QP
2	241.460	19.58	46.00	-26.42	23.57	-3.99	QP
3	449.040	24.13	46.00	-21.87	21.80	2.33	QP
4	691.540	28.10	46.00	-17.90	20.88	7.22	QP
5	762.350	30.19	46.00	-15.81	21.47	8.72	QP
6	953.440	32.02	46.00	-13.98	20.93	11.09	QP

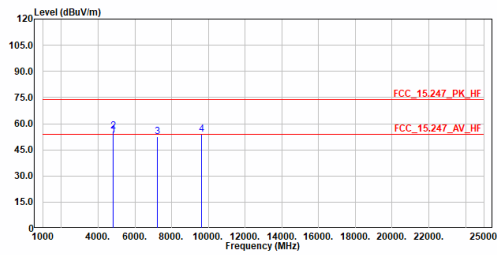
Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.
5. The other emission levels were very low against the limit.

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

<For EUT 1>

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

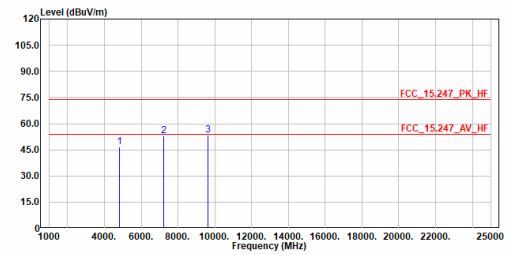


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4824.000	53.35	54.00	-0.65	67.10	-13.75	Average
2	4824.000	55.77	74.00	-18.23	69.52	-13.75	Peak
3	7236.000	52.71	74.00	-21.29	57.41	-4.70	Peak
4	9648.000	53.97	74.00	-20.03	56.26	-2.29	Peak

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

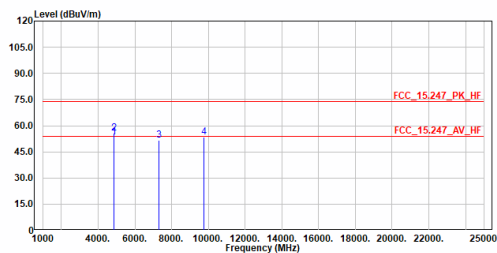


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4824.000	46.65	74.00	-27.35	60.40	-13.75	Peak
2	7236.000	53.12	74.00	-20.88	57.82	-4.70	Peak
3	9648.000	53.31	74.00	-20.69	55.60	-2.29	Peak

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

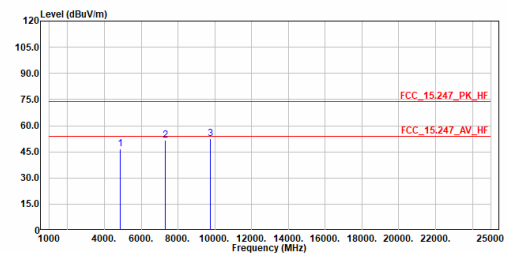


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4874.000	53.55	54.00	-0.45	67.10	-13.55	Average
2	4874.000	55.71	74.00	-18.29	69.26	-13.55	Peak
3	7311.000	51.82	74.00	-22.18	56.42	-4.60	Peak
4	9748.000	53.27	74.00	-20.73	55.32	-2.05	Peak

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

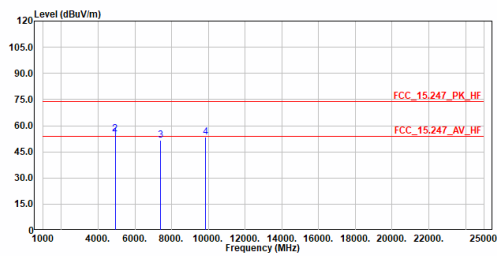


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4874.000	46.78	74.00	-27.22	60.33	-13.55	Peak
2	7311.000	51.54	74.00	-22.46	56.14	-4.60	Peak
3	9748.000	52.61	74.00	-21.39	54.66	-2.05	Peak

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 :11b_TX_2462MHz
Test By :Cyril

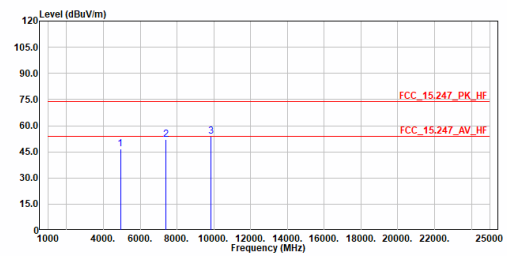


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	4924.000	53.27	54.00	-0.73	66.63	-13.36	Average
2	4924.000	55.23	74.00	-18.77	68.59	-13.36	Peak
3	7386.000	51.70	74.00	-22.30	56.20	-4.50	Peak
4	9848.000	53.23	74.00	-20.77	55.04	-1.81	Peak

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

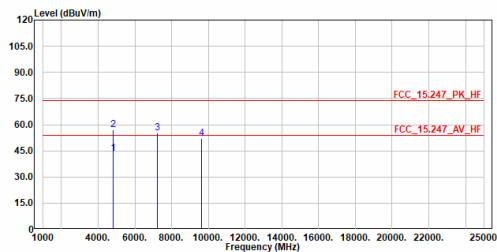


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	4924.000	46.63	74.00	-27.37	59.99	-13.36	Peak
2	7386.000	51.88	74.00	-22.12	56.38	-4.50	Peak
3	9848.000	53.74	74.00	-20.26	55.55	-1.81	Peak

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.

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

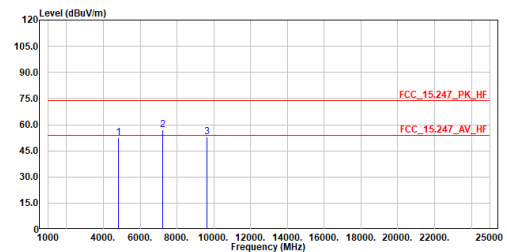


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	4824.000	43.65	54.00	-10.35	57.40	-13.75	Average
2	4824.000	56.85	74.00	-17.15	70.60	-13.75	Peak
3	7236.000	55.17	74.00	-18.83	59.87	-4.70	Peak
4	9648.000	52.13	74.00	-21.87	54.42	-2.29	Peak

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

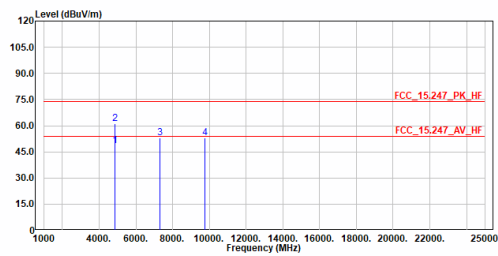


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	4824.000	52.31	74.00	-21.69	66.06	-13.75	Peak
2	7236.000	57.00	74.00	-17.00	61.70	-4.70	Peak
3	9648.000	52.79	74.00	-21.21	55.08	-2.29	Peak

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 Horizontal
Mode :11g_TX_2437MHz
Test By :Cyril

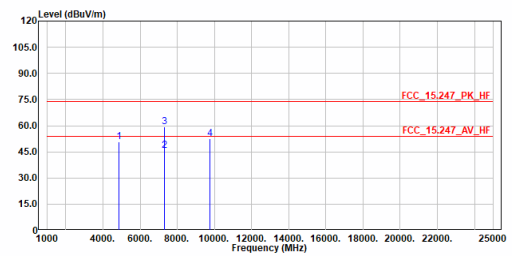


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	4874.000	48.25	54.00	-5.75	61.80	-13.55	Average
2	4874.000	61.09	74.00	-12.91	74.64	-13.55	Peak
3	7311.000	53.03	74.00	-20.97	57.63	-4.60	Peak
4	9748.000	52.83	74.00	-21.17	54.88	-2.05	Peak

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

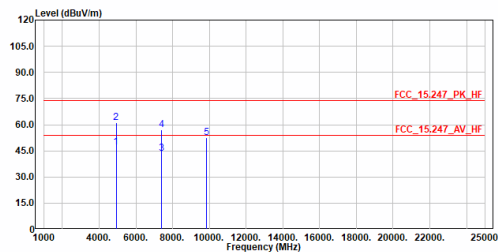


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	4874.000	50.86	74.00	-23.14	64.41	-13.55	Peak
2	7311.000	45.85	54.00	-8.15	50.45	-4.60	Average
3	7311.000	59.10	74.00	-14.90	63.70	-4.60	Peak
4	9748.000	52.65	74.00	-21.35	54.70	-2.05	Peak

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

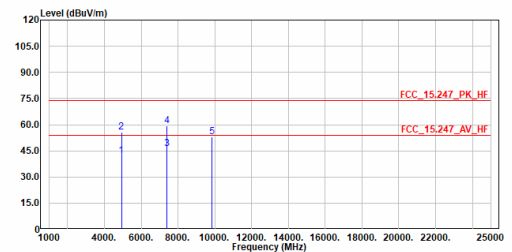


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	4924.000	47.26	54.00	-6.74	60.62	-13.36	Average
2	4924.000	61.09	74.00	-12.91	74.45	-13.36	Peak
3	7386.000	43.54	54.00	-10.46	48.04	-4.50	Average
4	7386.000	57.25	74.00	-16.75	61.75	-4.50	Peak
5	9848.000	52.70	74.00	-21.30	54.51	-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

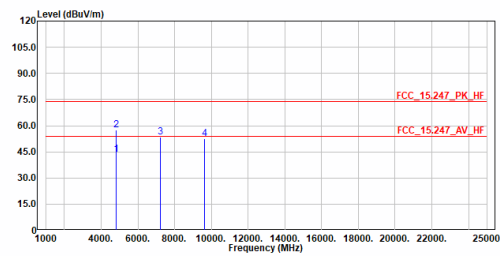


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	4924.000	42.11	54.00	-11.89	55.47	-13.36	Average
2	4924.000	55.62	74.00	-18.38	68.98	-13.36	Peak
3	7386.000	46.16	54.00	-7.84	50.66	-4.50	Average
4	7386.000	59.19	74.00	-14.81	63.69	-4.50	Peak
5	9848.000	52.85	74.00	-21.15	54.66	-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

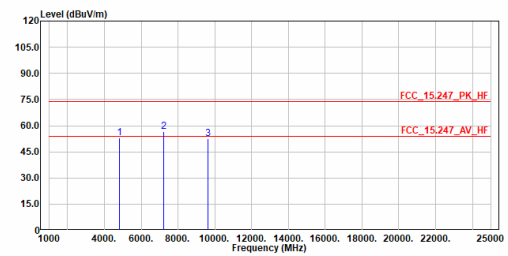


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	4824.000	43.56	54.00	-10.44	57.31	-13.75	Average
2	4824.000	57.50	74.00	-16.50	71.25	-13.75	Peak
3	7236.000	53.48	74.00	-20.52	58.18	-4.70	Peak
4	9648.000	52.49	74.00	-21.51	54.78	-2.29	Peak

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

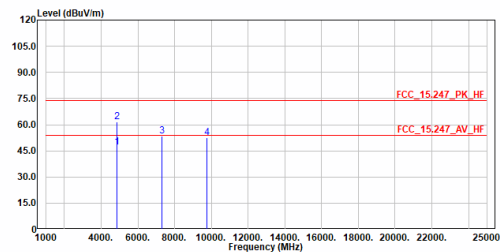


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	4824.000	52.81	74.00	-21.19	66.56	-13.75	Peak
2	7236.000	56.59	74.00	-17.41	61.29	-4.70	Peak
3	9648.000	52.49	74.00	-21.51	54.78	-2.29	Peak

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

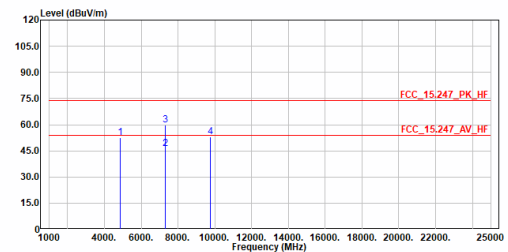


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	4874.000	47.12	54.00	-6.88	60.67	-13.55	Average
2	4874.000	61.60	74.00	-12.40	75.15	-13.55	Peak
3	7311.000	53.26	74.00	-20.74	57.86	-4.60	Peak
4	9748.000	52.45	74.00	-21.55	54.50	-2.05	Peak

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

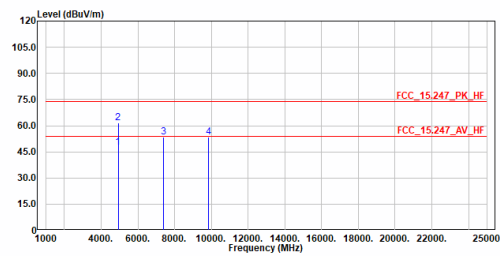


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	4874.000	52.58	74.00	-21.42	66.13	-13.55	Peak
2	7311.000	46.15	54.00	-7.85	50.75	-4.60	Average
3	7311.000	59.92	74.00	-14.08	64.52	-4.60	Peak
4	9748.000	52.80	74.00	-21.20	54.85	-2.05	Peak

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

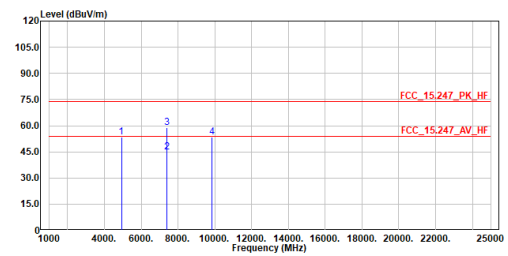


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	4924.000	47.56	54.00	-6.44	60.92	-13.36	Average
2	4924.000	61.44	74.00	-12.56	74.80	-13.36	Peak
3	7386.000	53.50	74.00	-20.50	58.00	-4.50	Peak
4	9848.000	53.23	74.00	-20.77	55.04	-1.81	Peak

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

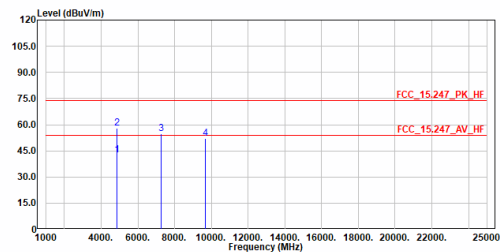


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	4924.000	53.44	74.00	-20.56	66.80	-13.36	Peak
2	7386.000	44.65	54.00	-9.35	49.15	-4.50	Average
3	7386.000	58.67	74.00	-15.33	63.17	-4.50	Peak
4	9848.000	53.37	74.00	-20.63	55.18	-1.81	Peak

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 :11n40_TX_2422MHz
Test By :Cyril

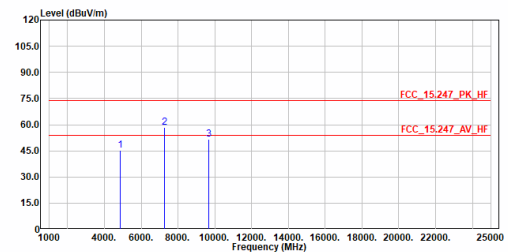


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	4844.000	42.55	54.00	-11.45	56.22	-13.67	Average
2	4844.000	57.81	74.00	-16.19	71.48	-13.67	Peak
3	7266.000	54.68	74.00	-19.32	59.33	-4.65	Peak
4	9688.000	52.07	74.00	-21.93	54.26	-2.19	Peak

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 :11n40_TX_2422MHz
Test By :Cyril

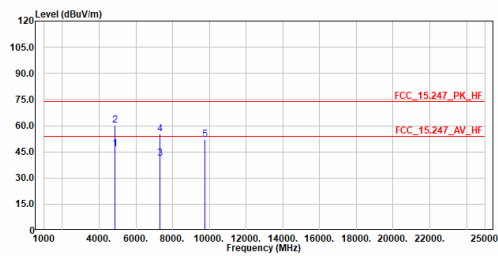


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	4844.000	45.21	74.00	-28.79	58.88	-13.67	Peak
2	7266.000	58.57	74.00	-15.43	63.22	-4.65	Peak
3	9688.000	51.76	74.00	-22.24	53.95	-2.19	Peak

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 :11n40_TX_2437MHz
Test By :Cyril

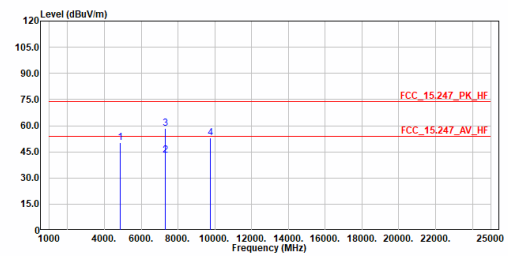


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	4874.000	46.59	54.00	-7.41	60.14	-13.55	Average
2	4874.000	60.24	74.00	-13.76	73.79	-13.55	Peak
3	7311.000	41.27	54.00	-12.73	45.87	-4.60	Average
4	7311.000	55.26	74.00	-18.74	59.86	-4.60	Peak
5	9748.000	51.89	74.00	-22.11	53.94	-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 :11n40_TX_2437MHz
Test By :Cyril

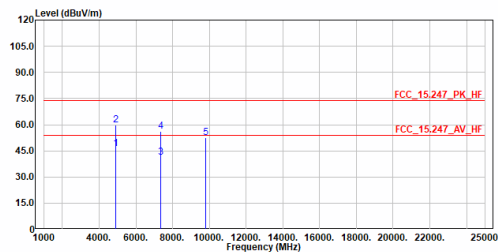


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	4874.000	50.46	74.00	-23.54	64.01	-13.55	Peak
2	7311.000	42.99	54.00	-11.01	47.59	-4.60	Average
3	7311.000	58.44	74.00	-15.56	63.04	-4.60	Peak
4	9748.000	53.02	74.00	-20.98	55.07	-2.05	Peak

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 :11n40_TX_2452MHz
Test By :Cyril

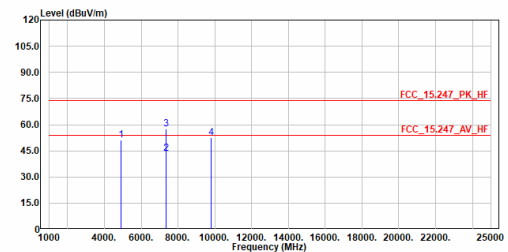


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	4904.000	46.35	54.00	-7.65	59.78	-13.43	Average
2	4904.000	59.83	74.00	-14.17	73.26	-13.43	Peak
3	7356.000	41.32	54.00	-12.68	45.86	-4.54	Average
4	7356.000	55.96	74.00	-18.04	60.50	-4.54	Peak
5	9808.000	52.37	74.00	-21.63	54.28	-1.91	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 :11n40_TX_2452MHz
Test By :Cyril



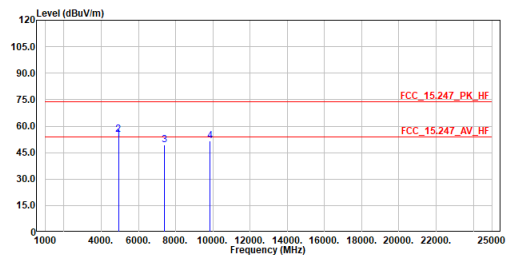
No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	4904.000	51.04	74.00	-22.96	64.47	-13.43	Peak
2	7356.000	43.51	54.00	-10.49	48.05	-4.54	Average
3	7356.000	57.61	74.00	-16.39	62.15	-4.54	Peak
4	9808.000	52.41	74.00	-21.59	54.32	-1.91	Peak

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.

<For EUT 2>

Site :CB2-H
 Condition :3m Horizontal
 Mode :11b_TX_2462MHz
 Test By :Getaz

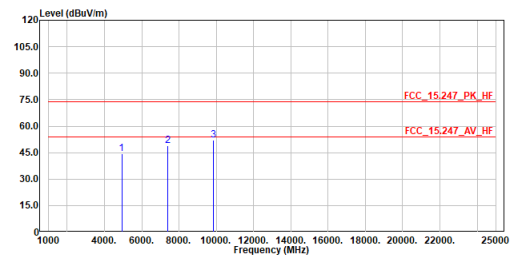


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4924.000	52.73	54.00	-1.27	66.09	-13.36	Average
2	4924.000	55.04	74.00	-18.96	68.40	-13.36	Peak
3	7386.000	49.46	74.00	-24.54	53.96	-4.50	Peak
4	9848.000	51.61	74.00	-22.39	53.42	-1.81	Peak

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 :Getaz



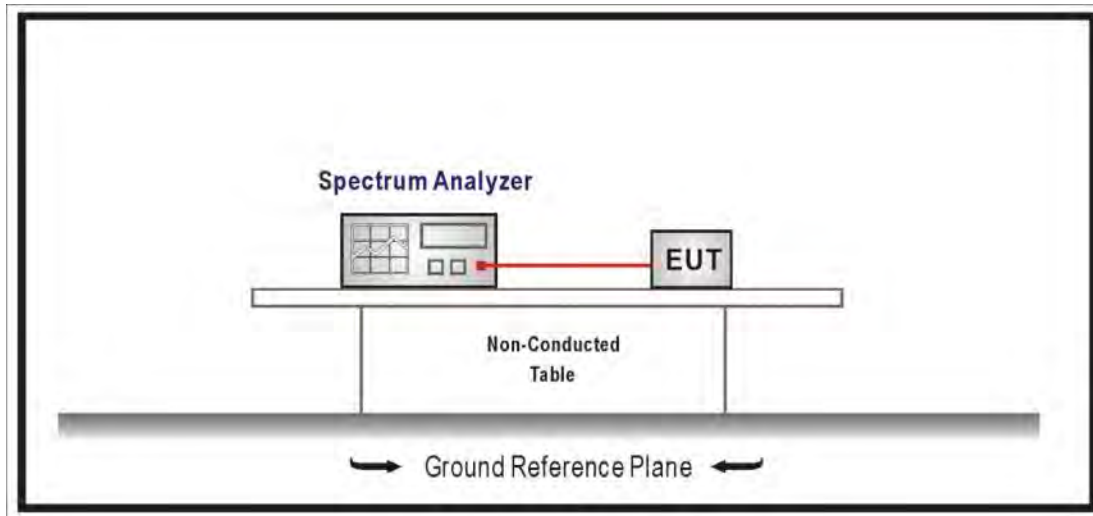
No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4924.000	44.41	74.00	-29.59	57.77	-13.36	Peak
2	7386.000	48.72	74.00	-25.28	53.22	-4.50	Peak
3	9848.000	51.92	74.00	-22.08	53.73	-1.81	Peak

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.

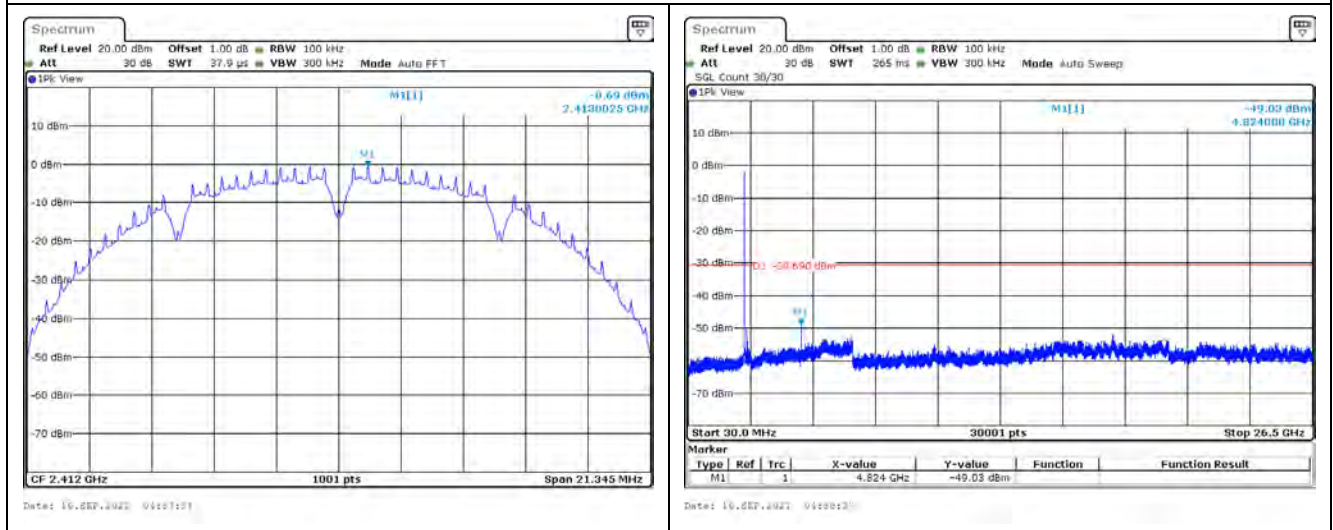
Set RBW = 100 kHz, Set VBW > RBW, scan up through 10th harmonic.

5.4. Test Specification

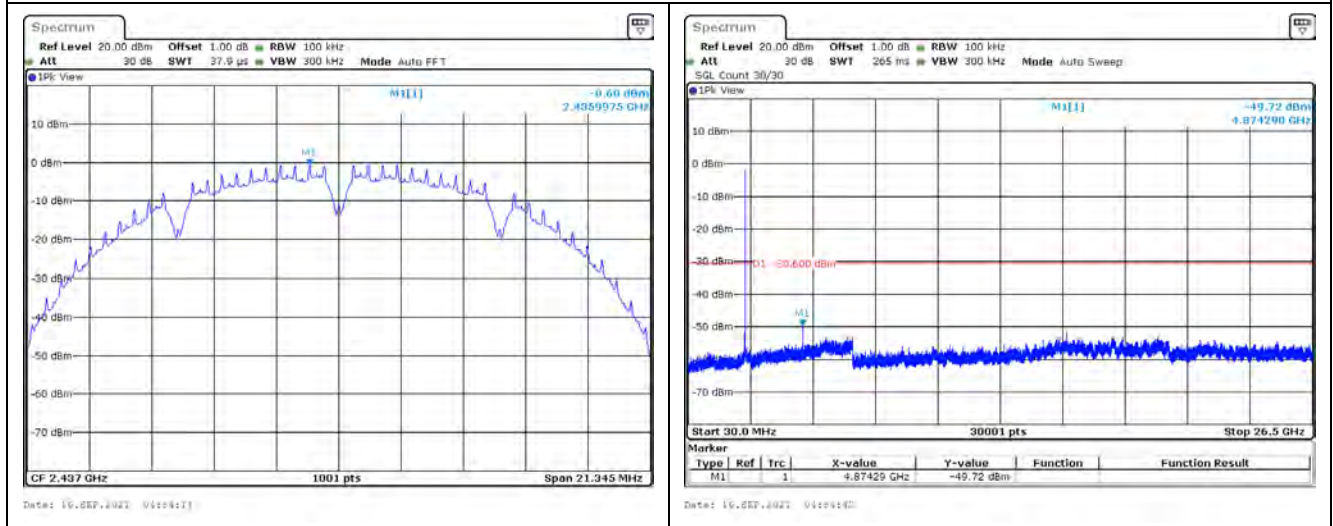
According to FCC Part 15 Subpart C Paragraph 15.247.

5.5. Test Result of Antenna Port Conducted Emission

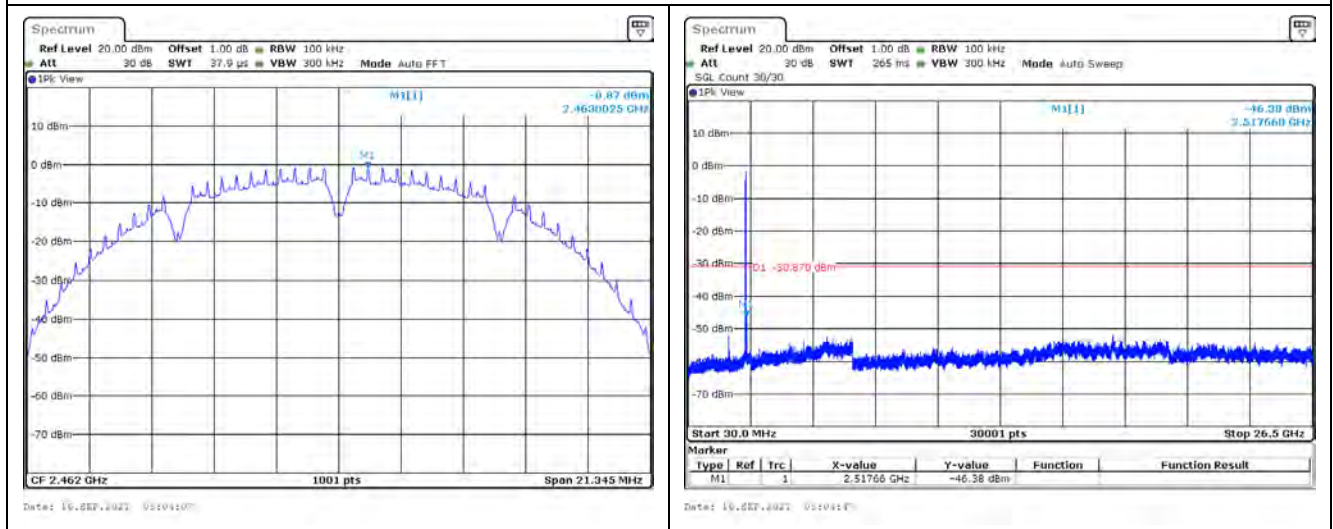
802.11b / 2412 MHz



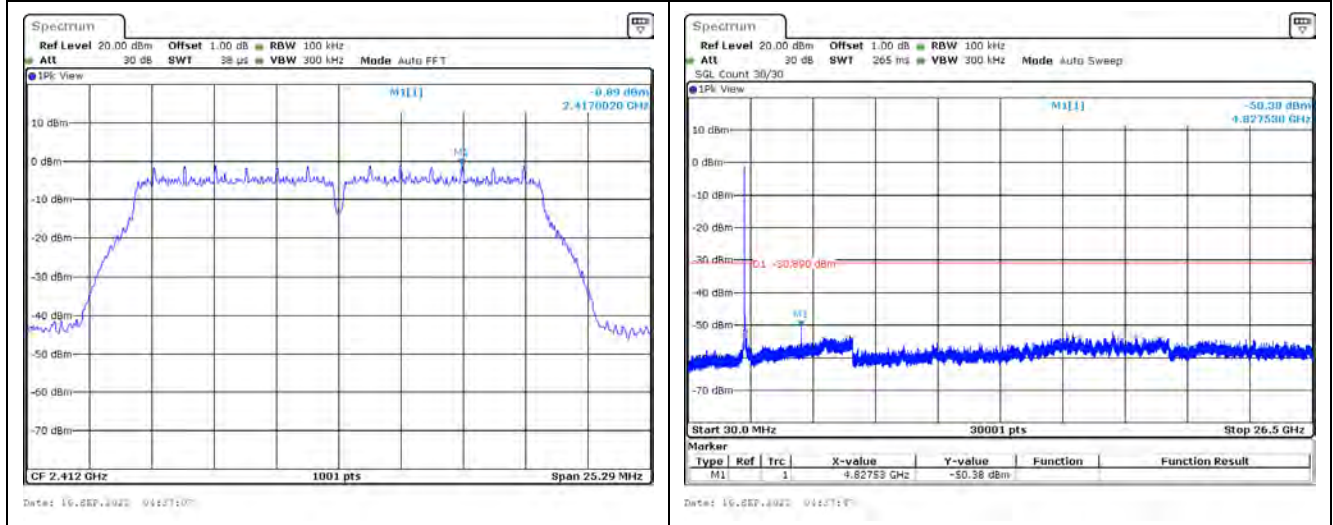
802.11b / 2437 MHz



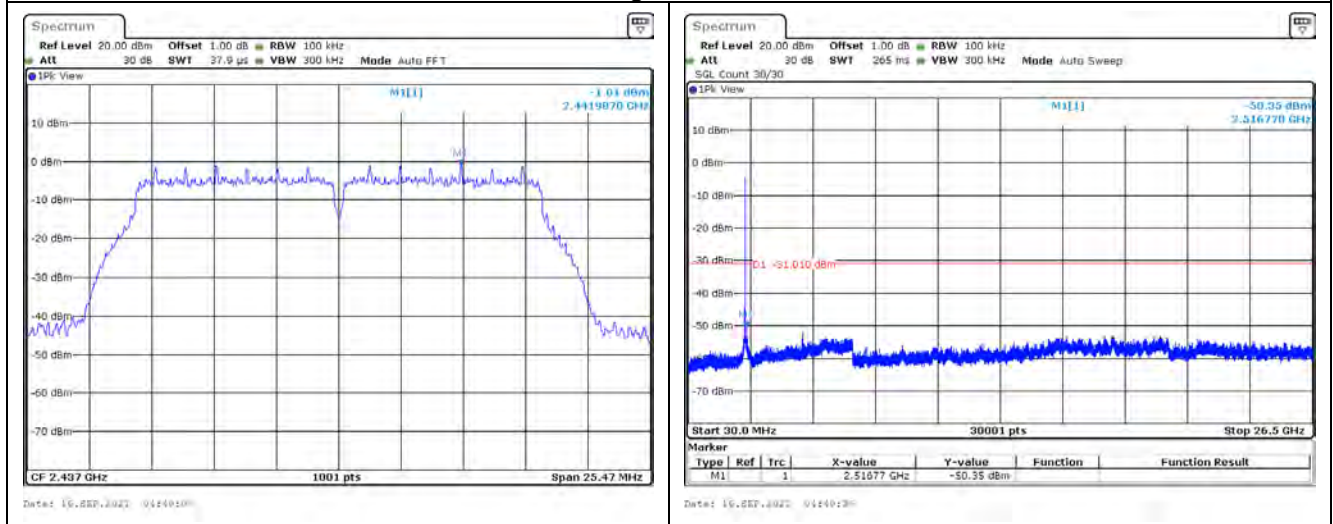
802.11b / 2462 MHz



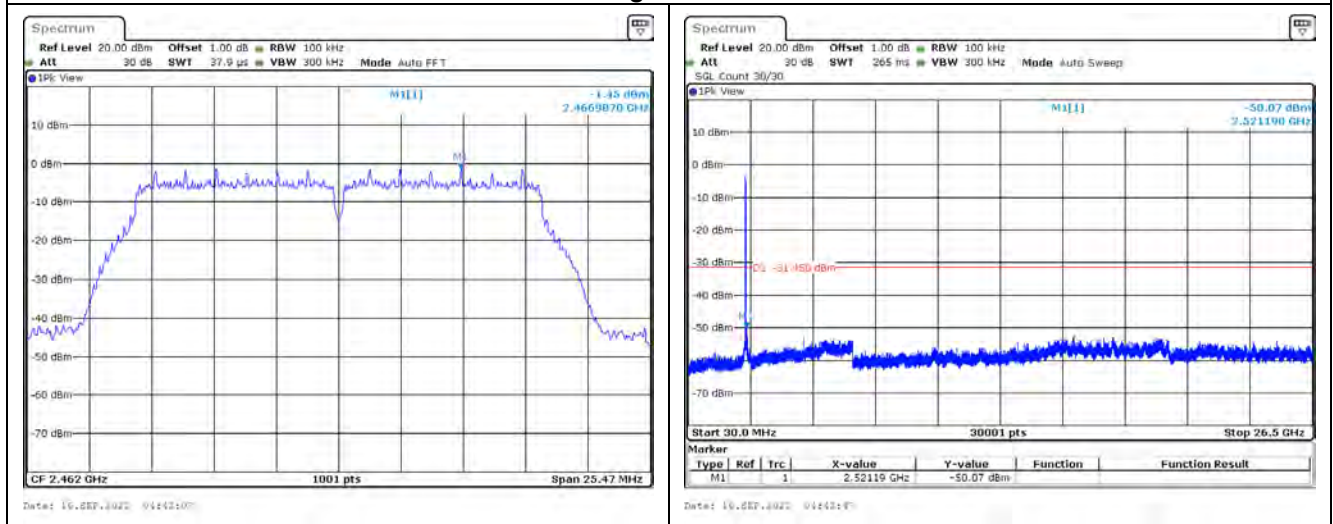
802.11g / 2412 MHz



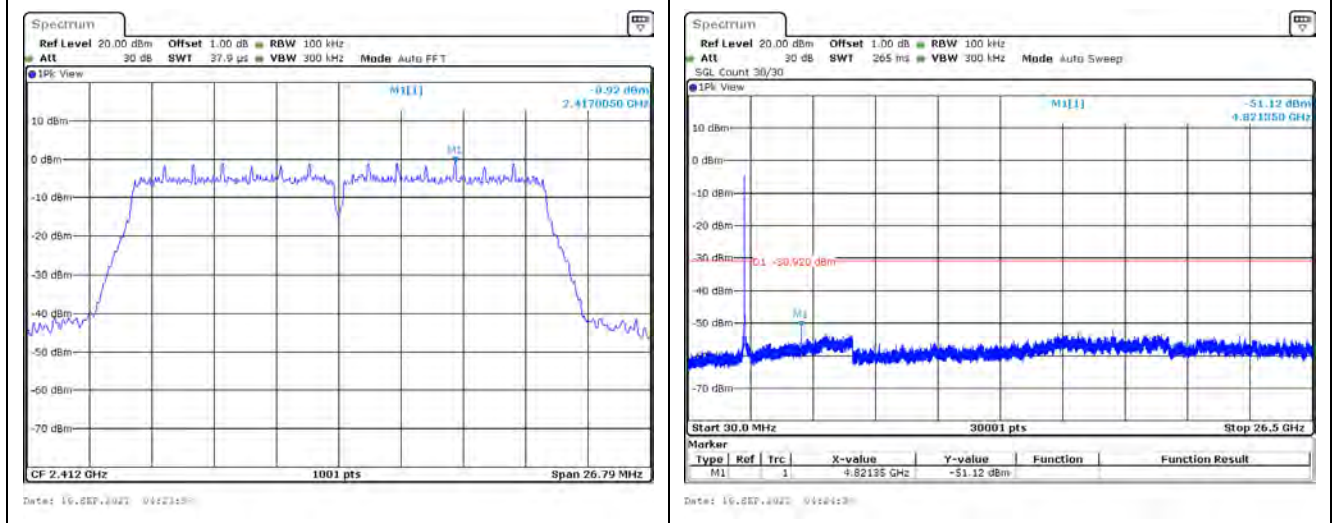
802.11g / 2437 MHz



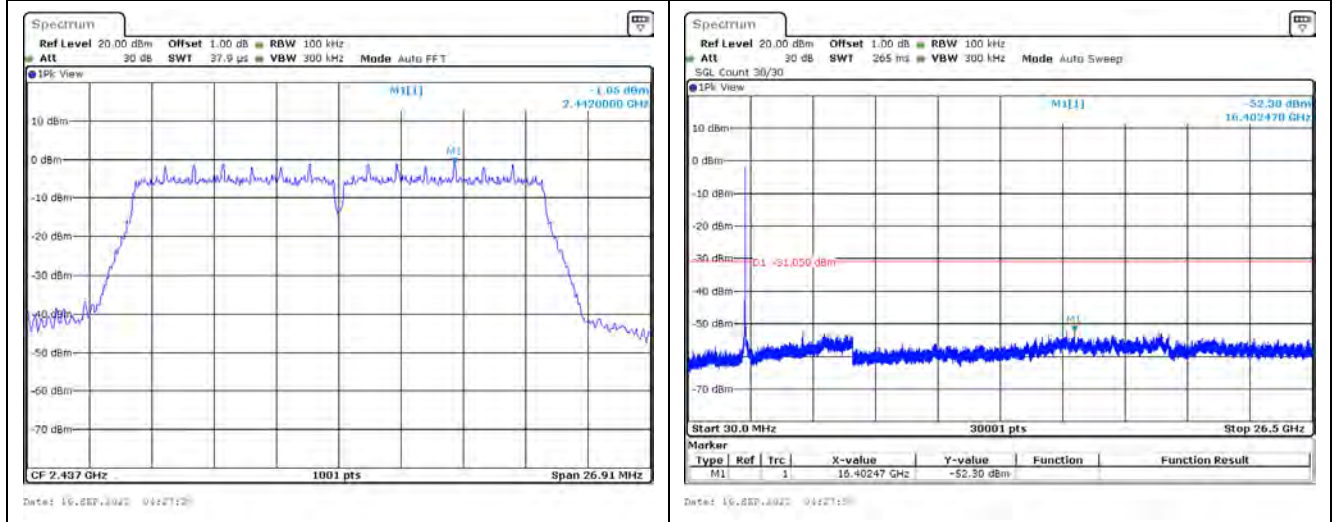
802.11g / 2462 MHz



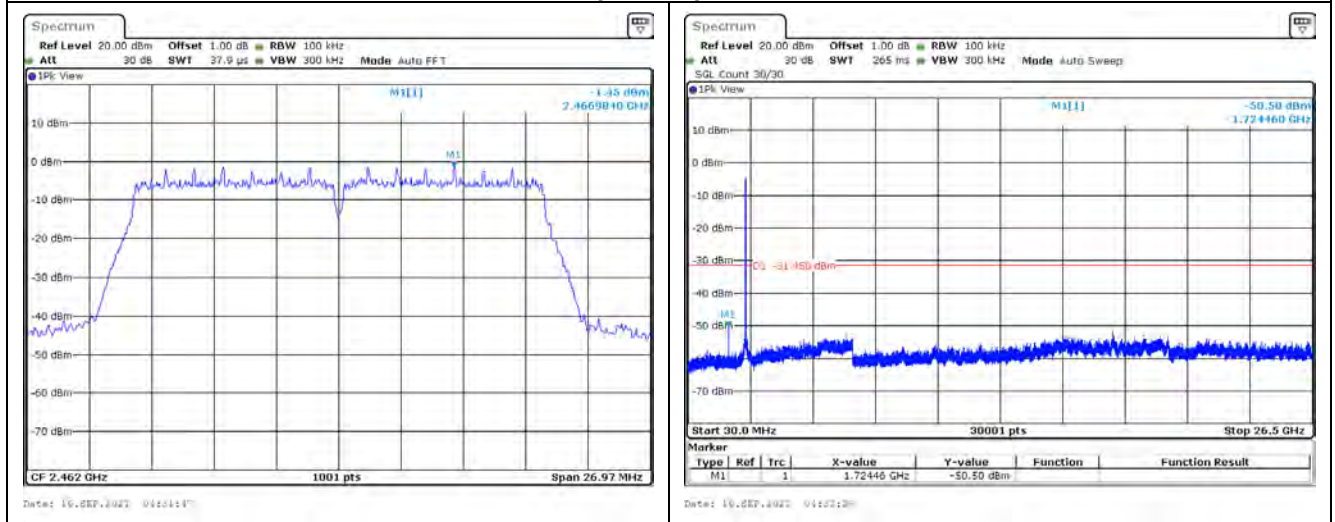
802.11n (20 MHz) / 2412 MHz



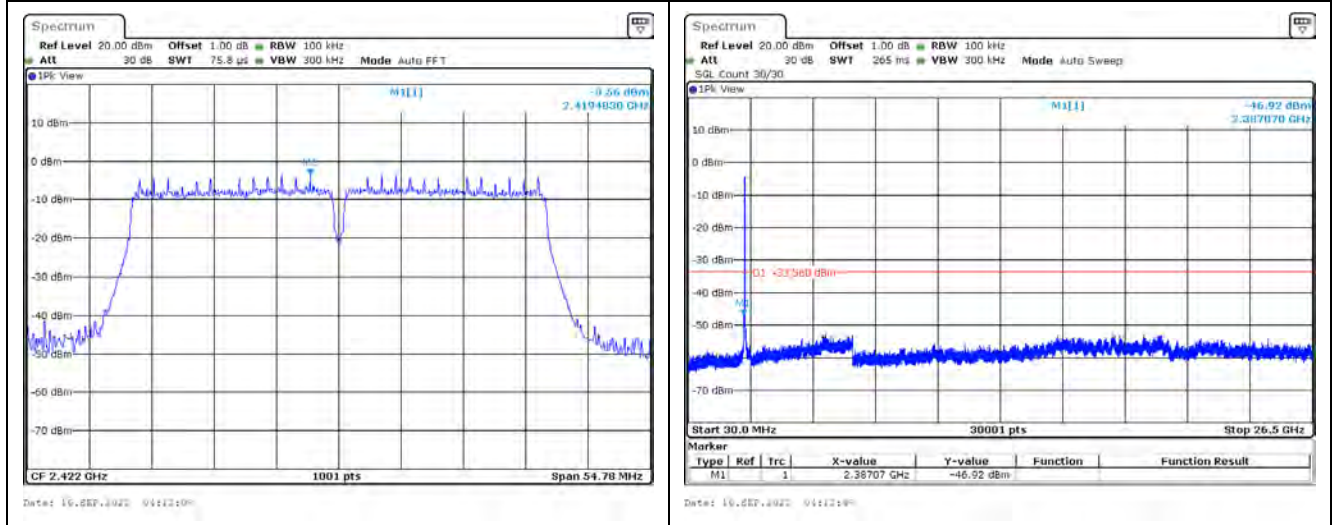
802.11n (20 MHz) / 2437 MHz



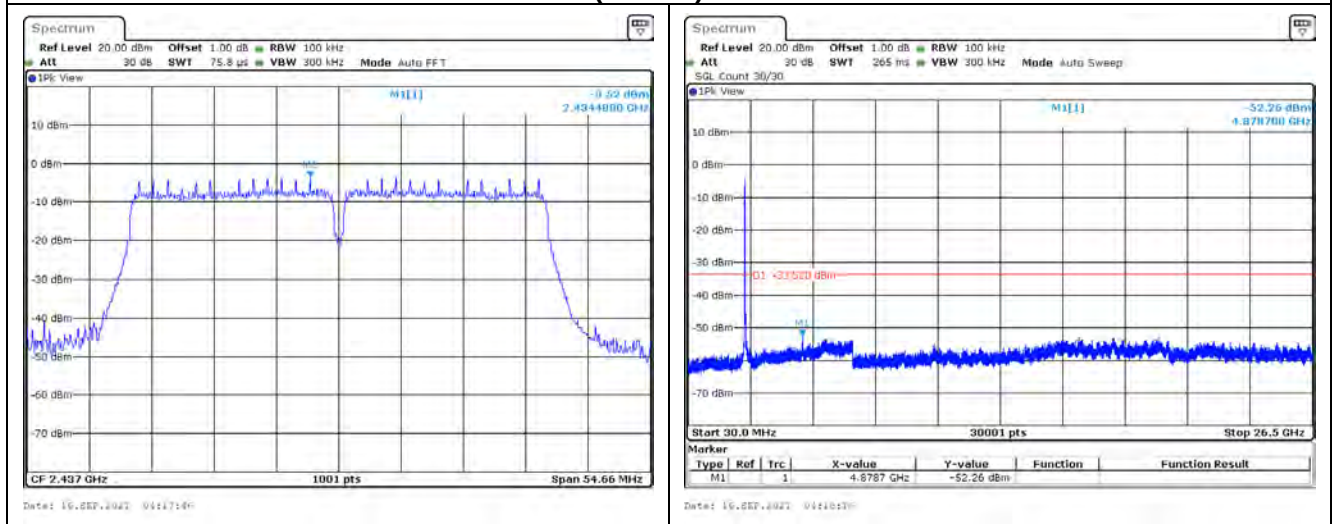
802.11n (20 MHz) / 2462 MHz



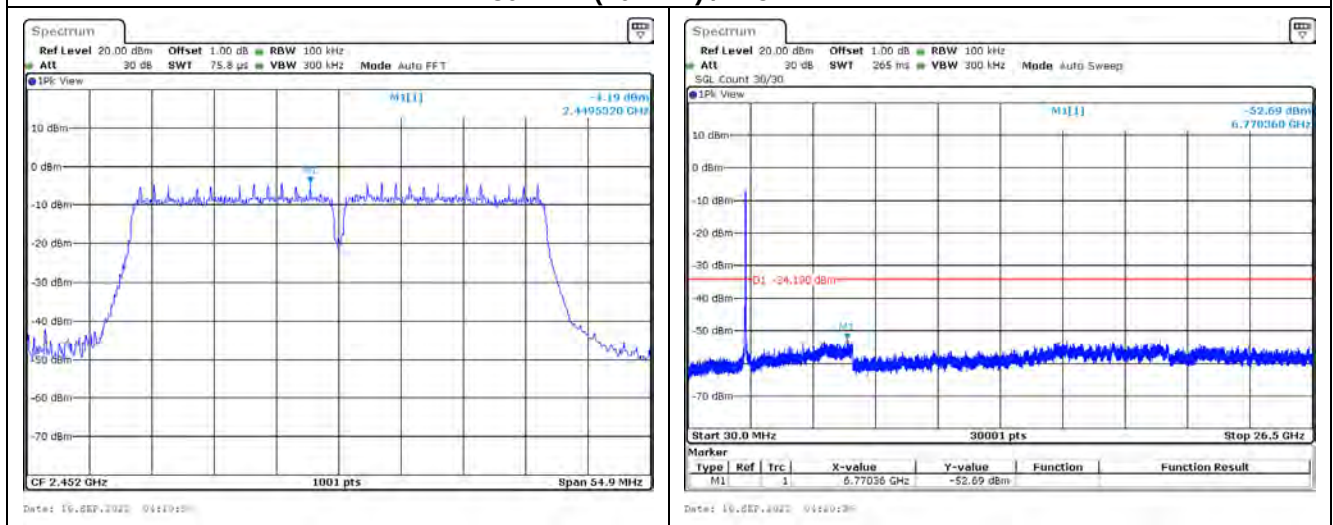
802.11n (40 MHz) / 2422 MHz



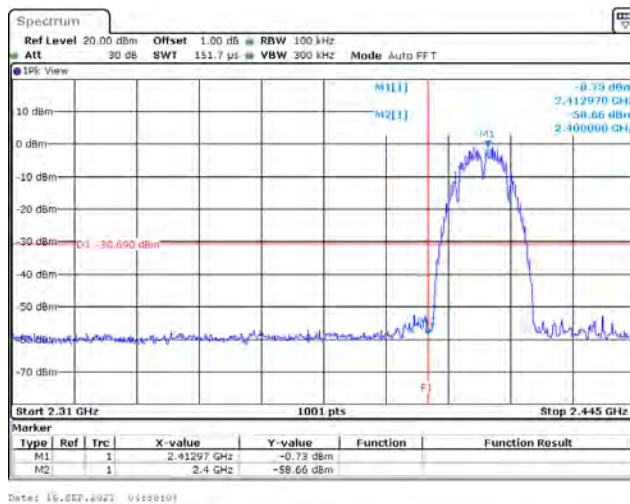
802.11n (40 MHz) / 2437 MHz



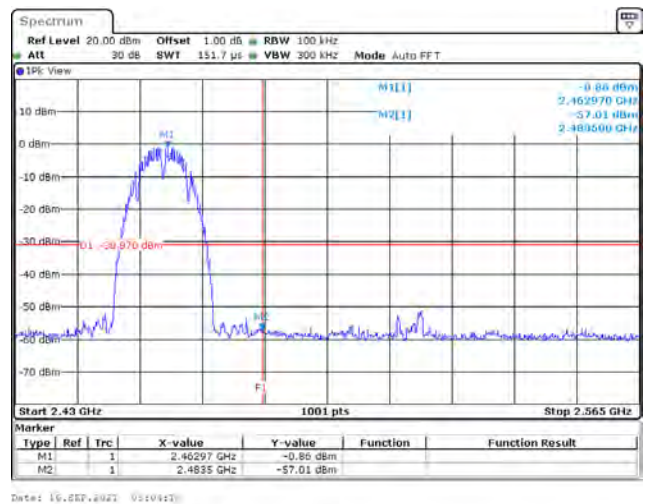
802.11n (40 MHz) / 2452 MHz



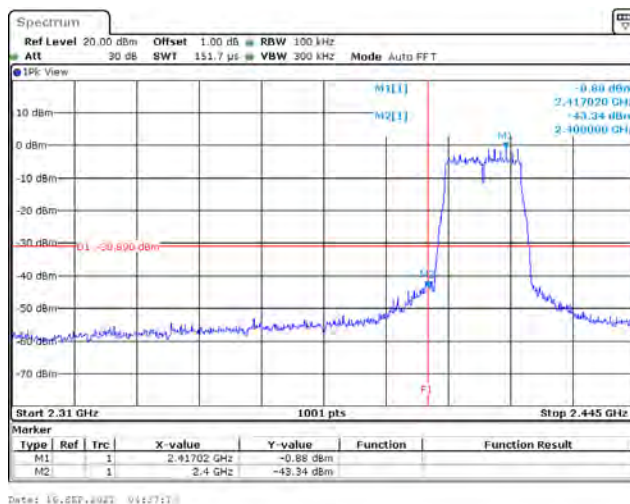
802.11b / 2412 MHz (Band Edge)



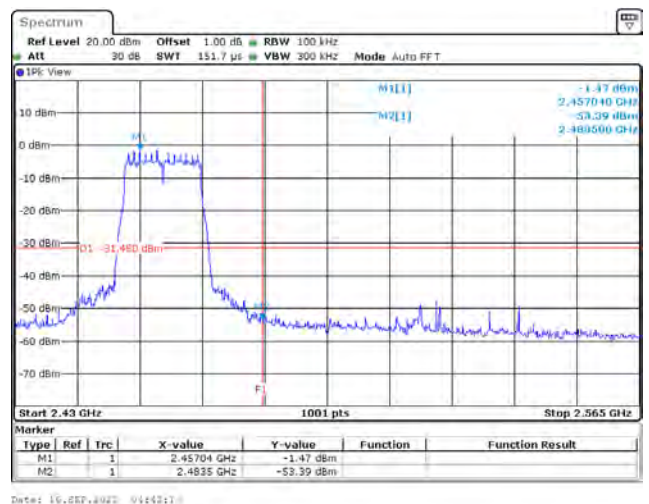
802.11b / 2462 MHz (Band Edge)



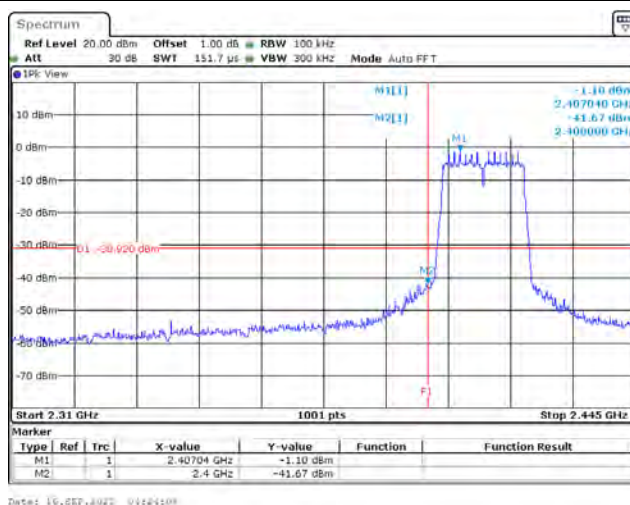
802.11g / 2412 MHz (Band Edge)



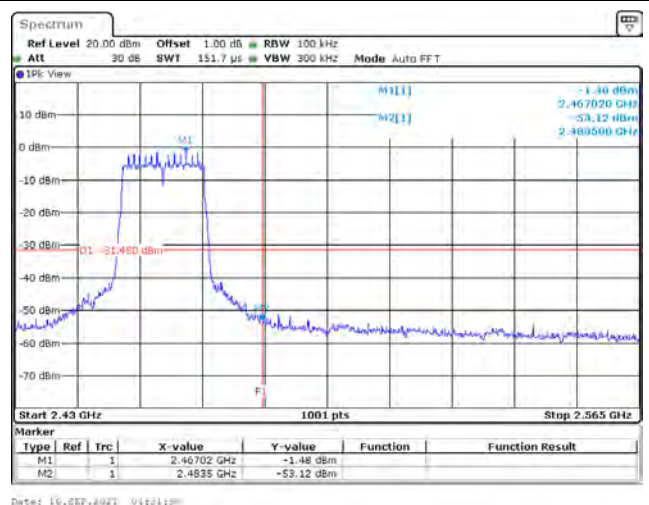
802.11g / 2462 MHz (Band Edge)

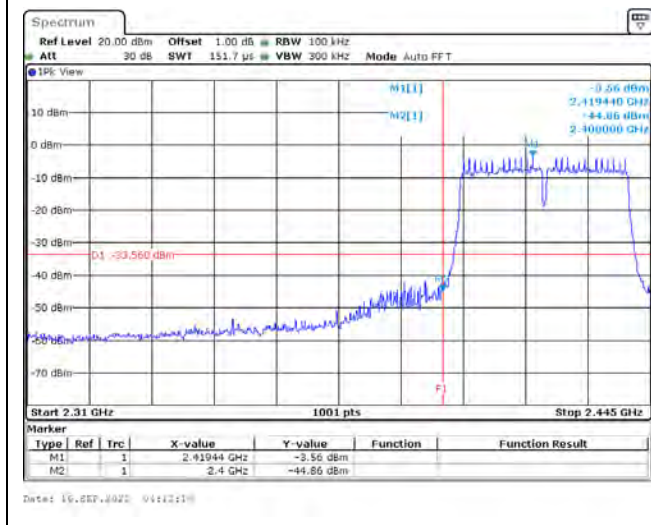
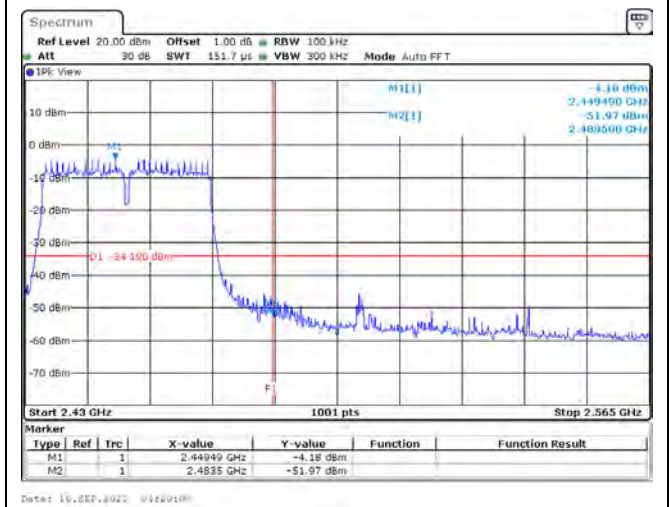


802.11n (20 MHz) / 2412 MHz (Band Edge)



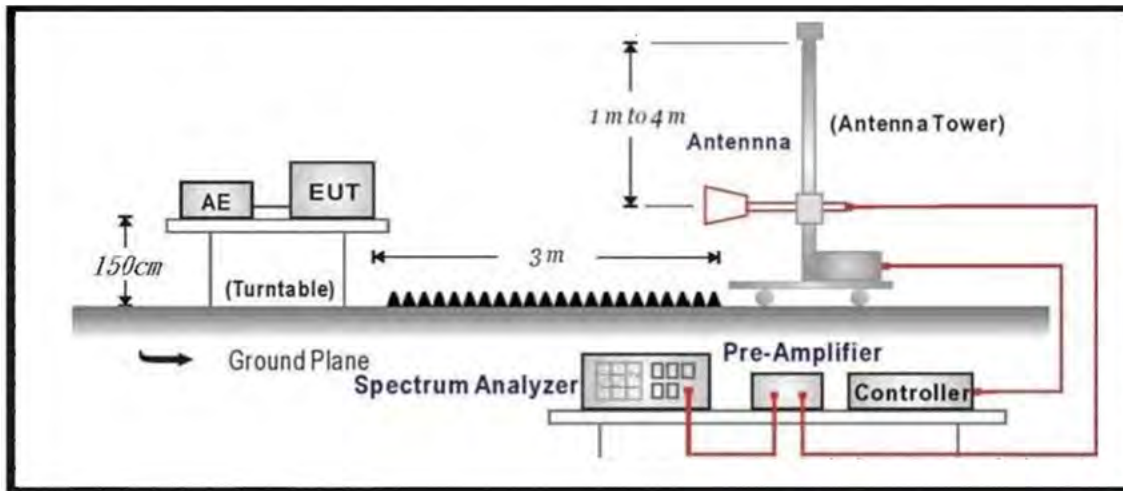
802.11n (20 MHz) / 2462 MHz (Band Edge)



802.11n (40 MHz) / 2422 MHz (Band Edge)**802.11n (40 MHz) / 2452 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.

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.

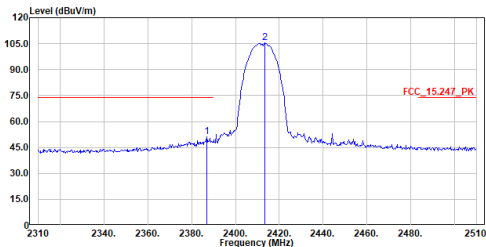
6.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247.

6.5. Test Result of Radiated Emission Band Edge

<For EUT 1>

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

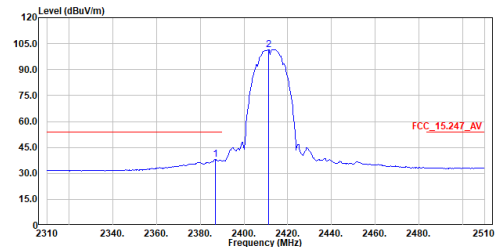


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2386.812	51.25	74.00	-22.75	37.78	13.47	Peak
2	2413.478	105.29	-----	-----	91.66	13.63	Peak

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

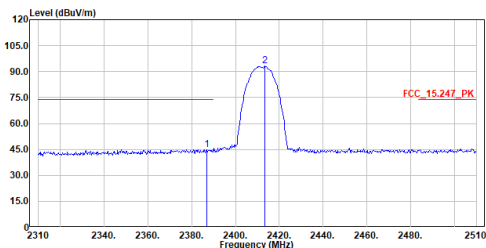


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2386.812	37.94	54.00	-16.06	24.47	13.47	Average
2	2411.159	101.59	-----	-----	87.98	13.61	Average

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

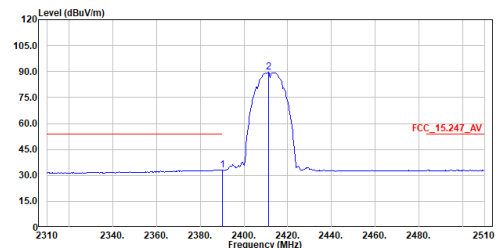


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2386.812	44.84	74.00	-29.16	31.37	13.47	Peak
2	2413.478	93.06	-----	-----	79.43	13.63	Peak

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

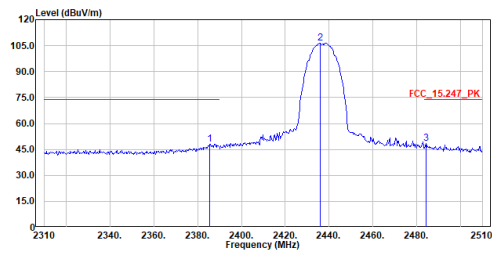


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2390.000	33.16	54.00	-20.84	19.68	13.48	Average
2	2411.159	89.48	-----	-----	75.87	13.61	Average

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

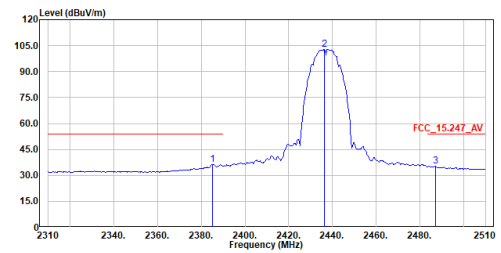


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	2385.652	48.09	74.00	-25.91	34.63	13.46	Peak
2	2435.797	106.36	-----	-----	92.59	13.77	Peak
3	2484.203	48.27	74.00	-25.73	34.20	14.07	Peak

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_2437MHz
Test By :Cyril

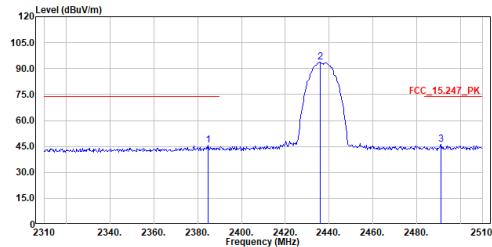


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	2385.073	36.27	54.00	-17.73	22.81	13.46	Average
2	2436.377	102.96	-----	-----	89.18	13.78	Average
3	2487.102	35.25	54.00	-18.75	21.16	14.09	Average

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

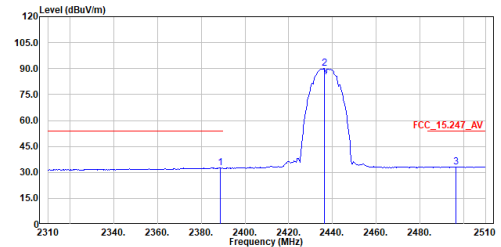


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	2384.783	45.62	74.00	-28.38	32.17	13.45	Peak
2	2435.797	93.58	-----	-----	79.81	13.77	Peak
3	2491.159	46.29	74.00	-27.71	32.18	14.11	Peak

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

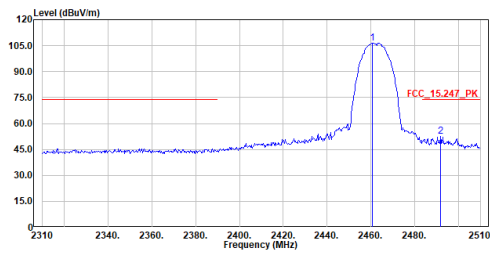


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	2388.841	32.72	54.00	-21.28	19.24	13.48	Average
2	2436.377	90.12	-----	-----	76.34	13.78	Average
3	2496.377	33.23	54.00	-20.77	19.09	14.14	Average

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

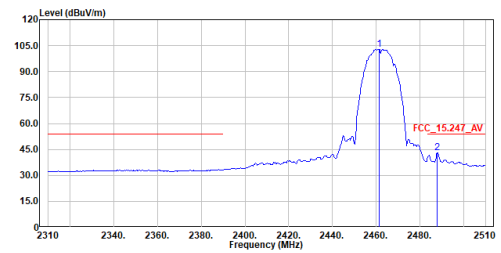


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2460.725	106.56	-----	-----	92.64	13.92	Peak
2	2491.739	52.37	74.00	-21.63	38.24	14.13	Peak

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

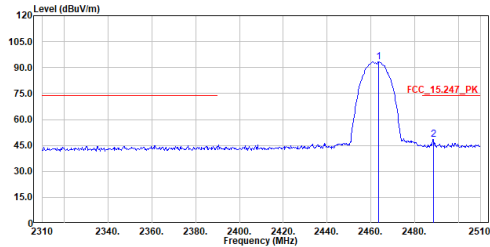


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2461.304	103.02	-----	-----	89.09	13.93	Average
2	2487.971	42.91	54.00	-11.09	28.82	14.09	Average

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

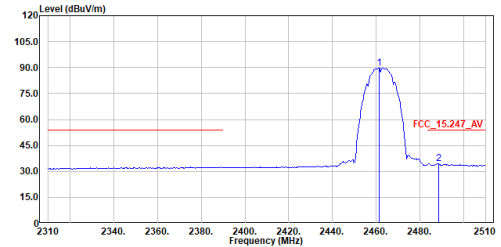


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2463.623	93.33	-----	-----	79.39	13.94	Peak
2	2488.551	48.58	74.00	-25.42	34.48	14.10	Peak

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

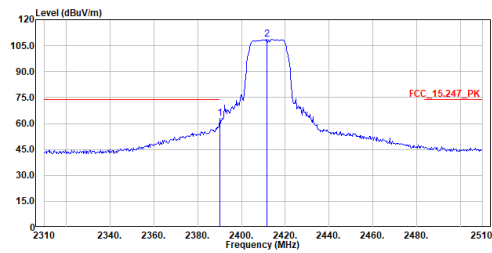


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2461.304	89.78	-----	-----	75.85	13.93	Average
2	2488.551	34.48	54.00	-19.52	20.38	14.10	Average

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 :Cyril

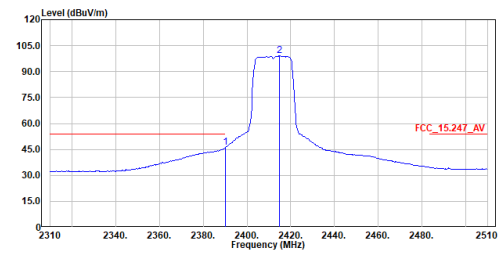


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	2390.000	62.83	74.00	-11.17	49.35	13.48	Peak
2	2411.739	108.63	-----	-----	95.01	13.62	Peak

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

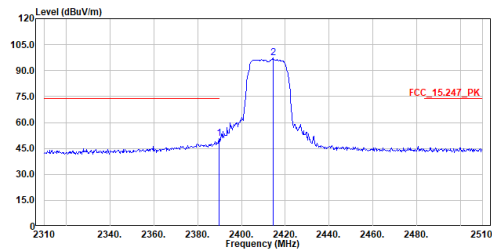


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	2390.000	46.09	54.00	-7.91	32.61	13.48	Average
2	2414.927	99.00	-----	-----	85.36	13.64	Average

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 :Cyril

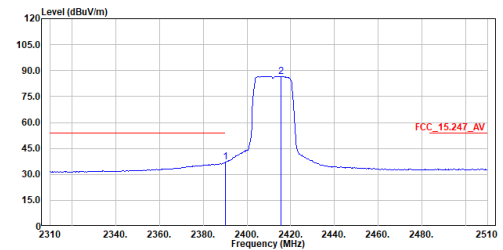


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	2389.710	50.84	74.00	-23.16	37.36	13.48	Peak
2	2414.348	97.21	-----	-----	83.57	13.64	Peak

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

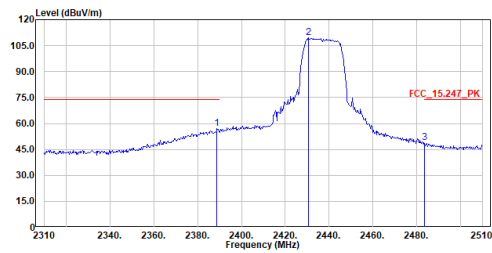


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	2390.000	36.95	54.00	-17.05	23.47	13.48	Average
2	2415.507	86.71	-----	-----	73.06	13.65	Average

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 :Cyril

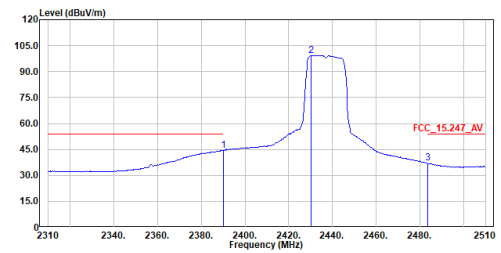


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2388.841	57.00	74.00	-17.00	43.52	13.48	Peak
2	2430.580	109.41	-----	-----	95.67	13.74	Peak
3	2483.500	48.77	74.00	-25.23	34.70	14.07	Peak

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 :Cyril

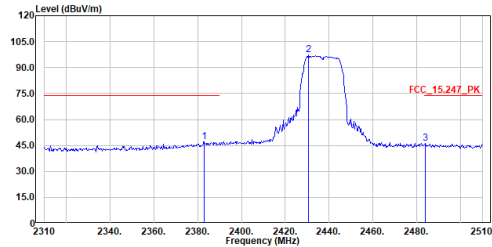


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2390.000	44.57	54.00	-9.43	31.09	13.48	Average
2	2430.290	99.37	-----	-----	85.64	13.73	Average
3	2483.500	37.08	54.00	-16.92	23.01	14.07	Average

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 :Cyril

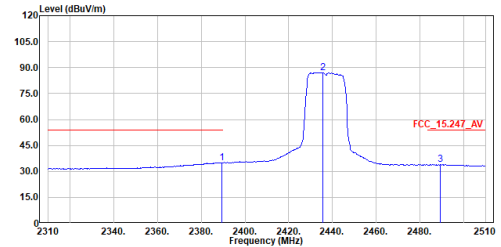


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2383.043	46.97	74.00	-27.03	33.53	13.44	Peak
2	2430.580	97.48	-----	-----	83.74	13.74	Peak
3	2483.913	46.35	74.00	-27.65	32.28	14.07	Peak

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 :11g_TX_2437MHz
Test By :Cyril

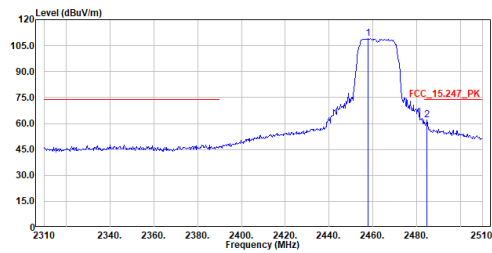


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2389.420	35.04	54.00	-18.96	21.56	13.48	Average
2	2435.507	86.98	-----	-----	73.21	13.77	Average
3	2489.420	33.91	54.00	-20.09	19.81	14.10	Average

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 :Cyril

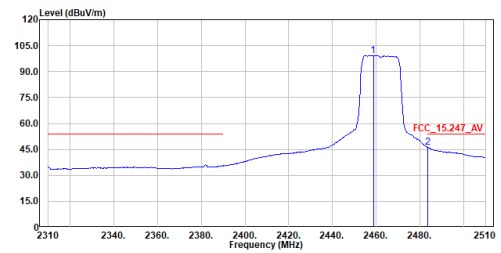


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2457.826	109.24	-----	-----	95.34	13.90	Peak
2	2484.783	61.83	74.00	-12.17	47.76	14.07	Peak

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 :Cyril

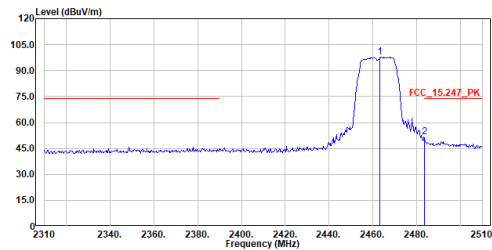


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2458.696	99.39	-----	-----	85.47	13.92	Average
2	2483.500	46.25	54.00	-7.75	32.18	14.07	Average

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 :Cyril

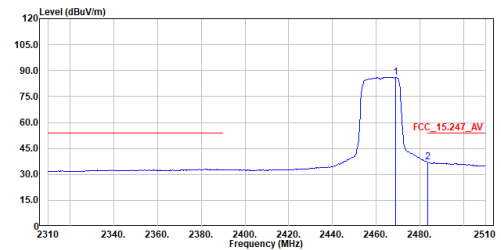


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2463.333	97.81	-----	-----	83.87	13.94	Peak
2	2483.500	51.53	74.00	-22.47	37.46	14.07	Peak

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 :Cyril

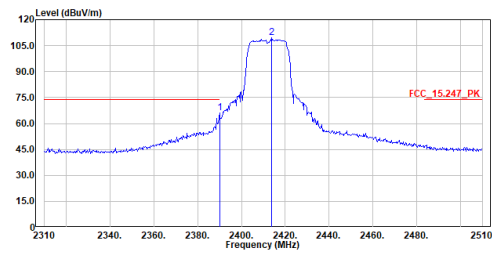


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2468.841	86.06	-----	-----	72.08	13.98	Average
2	2483.500	37.21	54.00	-16.79	23.14	14.07	Average

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

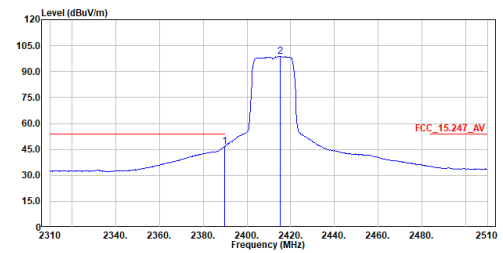


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	2390.000	65.91	74.00	-8.09	52.43	13.48	Peak
2	2413.768	109.38	74.00	35.38	95.75	13.63	Peak

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

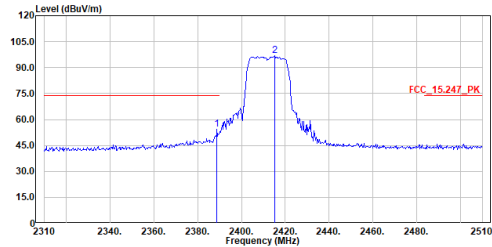


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	2389.710	46.76	54.00	-7.24	33.28	13.48	Average
2	2415.217	98.83	54.00	44.83	85.18	13.65	Average

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

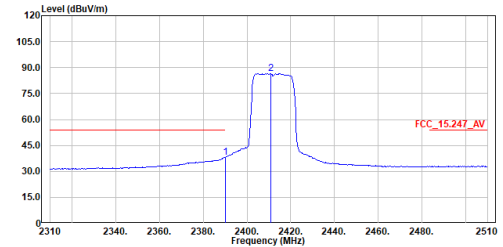


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	2388.841	54.12	74.00	-19.88	40.64	13.48	Peak
2	2415.217	96.85	74.00	22.85	83.20	13.65	Peak

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

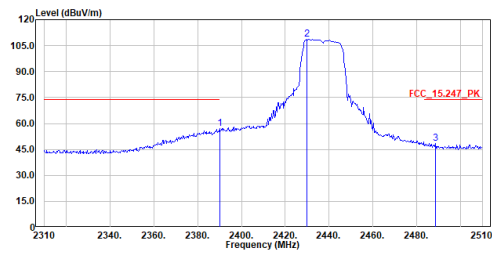


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	2390.000	38.14	54.00	-15.86	24.66	13.48	Average
2	2410.870	86.52	54.00	32.52	72.91	13.61	Average

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 :11n20_TX_2437MHz
Test By :Cyril

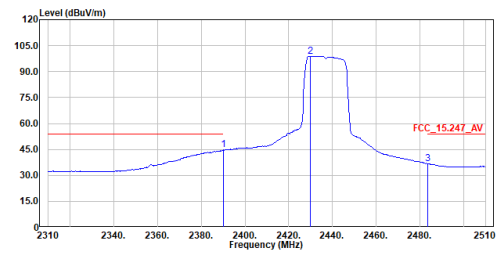


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2390.000	57.08	74.00	-16.92	43.60	13.48	Peak
2	2430.000	108.73	-----	-----	95.00	13.73	Peak
3	2488.551	48.62	74.00	-25.38	34.52	14.10	Peak

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

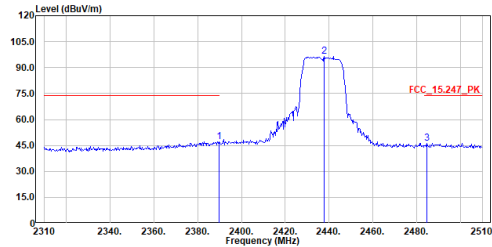


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2390.000	44.63	54.00	-9.37	31.15	13.48	Average
2	2430.000	98.92	-----	-----	85.19	13.73	Average
3	2483.500	36.69	54.00	-17.31	22.62	14.07	Average

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

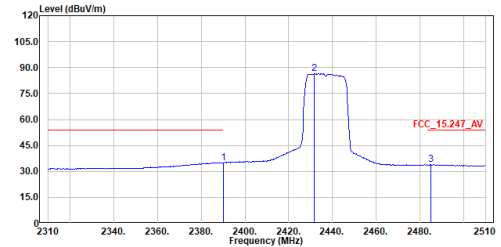


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2389.710	47.31	74.00	-26.69	33.83	13.48	Peak
2	2437.826	96.47	-----	-----	82.69	13.78	Peak
3	2484.493	46.22	74.00	-27.78	32.15	14.07	Peak

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_2437MHz
Test By :Cyril

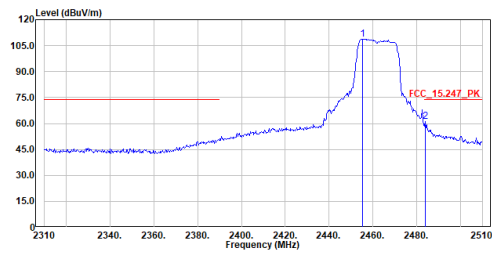


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2390.000	35.08	54.00	-18.92	21.60	13.48	Average
2	2431.739	86.48	-----	-----	72.73	13.75	Average
3	2485.073	33.89	54.00	-20.11	19.81	14.08	Average

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

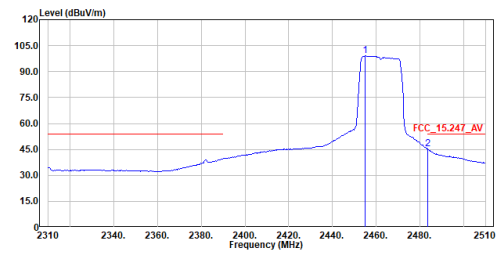


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2455.217	108.87	-----	-----	94.97	13.90	Peak
2	2483.913	61.15	74.00	-12.85	47.08	14.07	Peak

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

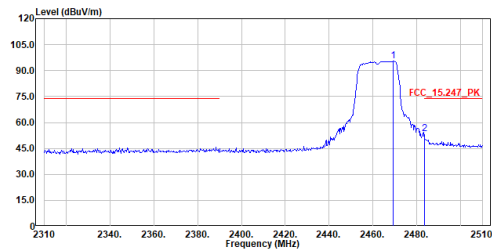


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2454.927	99.10	-----	-----	85.21	13.89	Average
2	2483.500	45.23	54.00	-8.77	31.16	14.07	Average

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

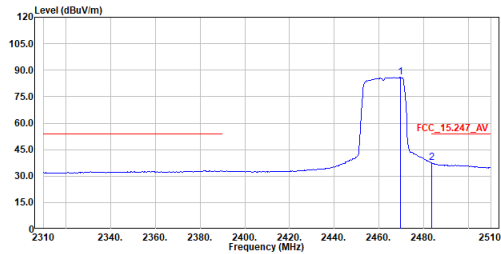


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2469.420	95.39	-----	-----	81.41	13.98	Peak
2	2483.500	53.32	74.00	-20.68	39.25	14.07	Peak

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

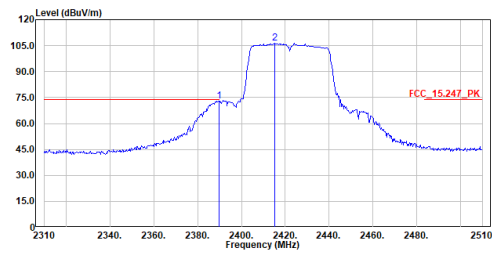


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2469.710	85.88	-----	-----	71.89	13.99	Average
2	2483.500	37.68	54.00	-16.32	23.61	14.07	Average

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 :11n40_TX_2422MHz
Test By :Cyril

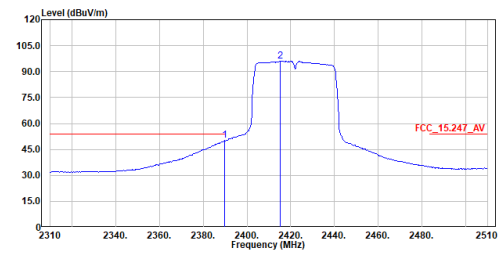


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2389.710	72.90	74.00	-1.10	59.42	13.48	Peak
2	2415.217	106.31	-----	-----	92.66	13.65	Peak

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 :11n40_TX_2422MHz
Test By :Cyril

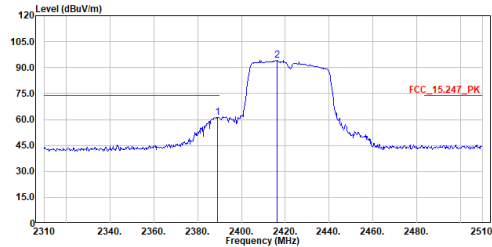


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2389.710	50.05	54.00	-3.95	36.57	13.48	Average
2	2415.217	96.23	-----	-----	82.58	13.65	Average

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 :11n40_TX_2422MHz
Test By :Cyril

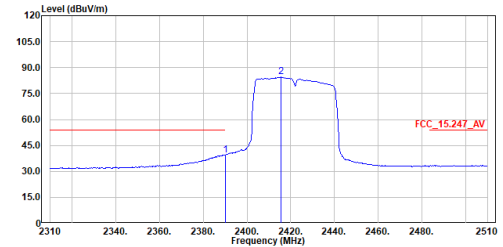


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2389.130	61.35	74.00	-12.65	47.87	13.48	Peak
2	2416.377	94.30	-----	-----	80.65	13.65	Peak

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 :11n40_TX_2422MHz
Test By :Cyril

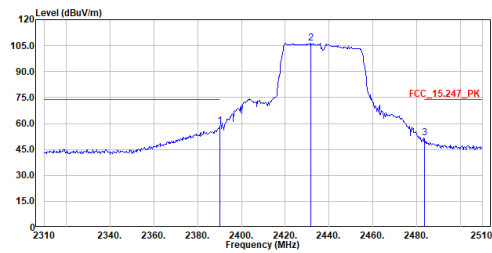


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2390.000	39.55	54.00	-14.45	26.07	13.48	Average
2	2415.507	84.56	-----	-----	70.91	13.65	Average

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 :11n40_TX_2437MHz
Test By :Cyril

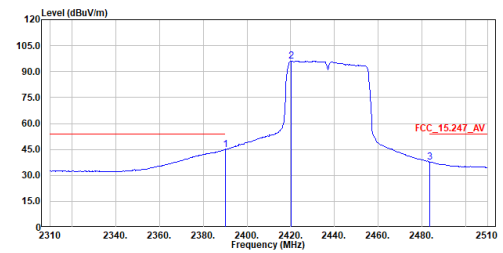


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2390.000	58.21	74.00	-15.79	44.73	13.48	Peak
2	2431.739	106.46	-----	-----	92.71	13.75	Peak
3	2483.500	51.83	74.00	-22.17	37.76	14.07	Peak

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 :11n40_TX_2437MHz
Test By :Cyril

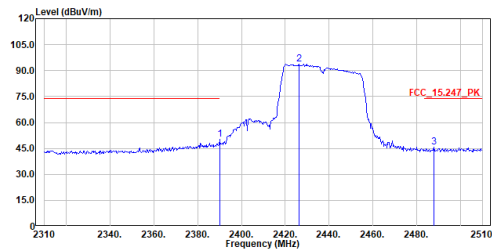


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2390.000	45.01	54.00	-8.99	31.53	13.48	Average
2	2420.145	96.09	-----	-----	82.41	13.68	Average
3	2483.500	37.79	54.00	-16.21	23.72	14.07	Average

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 :11n40_TX_2437MHz
Test By :Cyril

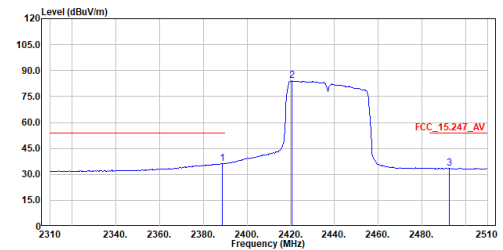


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2390.000	50.49	74.00	-23.51	37.01	13.48	Peak
2	2426.232	93.93	-----	-----	80.21	13.72	Peak
3	2487.971	45.89	74.00	-28.11	31.80	14.09	Peak

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 :11n40_TX_2437MHz
Test By :Cyril

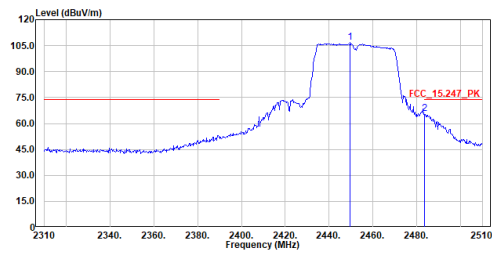


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2388.841	36.36	54.00	-17.64	22.88	13.48	Average
2	2420.435	84.06	-----	-----	70.38	13.68	Average
3	2492.609	33.69	54.00	-20.31	19.56	14.13	Average

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 :11n40_TX_2452MHz
Test By :Cyril

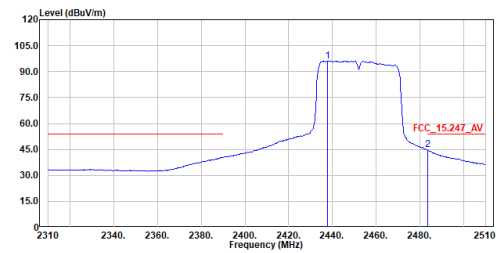


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2449.710	106.86	-----	-----	93.00	13.86	Peak
2	2483.500	65.88	74.00	-8.12	51.81	14.07	Peak

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 :11n40_TX_2452MHz
Test By :Cyril

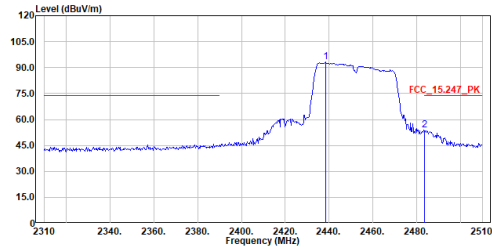


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2437.826	96.05	-----	-----	82.27	13.78	Average
2	2483.500	44.79	54.00	-9.21	30.72	14.07	Average

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 :11n40_TX_2452MHz
Test By :Cyril

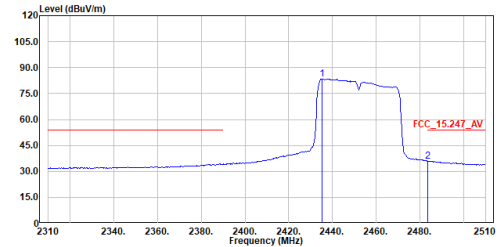


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2438.406	93.07	-----	-----	79.28	13.79	Peak
2	2483.500	53.84	74.00	-20.16	39.77	14.07	Peak

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 :11n40_TX_2452MHz
Test By :Cyril



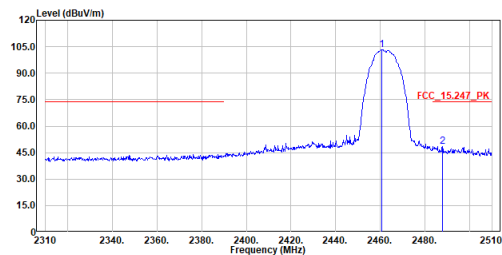
No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2435.217	83.37	-----	-----	69.60	13.77	Average
2	2483.623	35.96	54.00	-18.04	21.89	14.07	Average

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.

<For EUT 2>

Site :CB2-H
Condition :3m Horizontal
Mode :11b_TX_2462MHz
Test By :Getaz

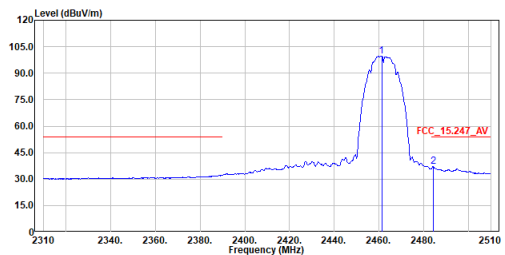


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2460.800	103.38	-----	-----	89.46	13.92	Peak
2	2487.800	48.51	74.00	-25.49	34.42	14.09	Peak

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 :Getaz

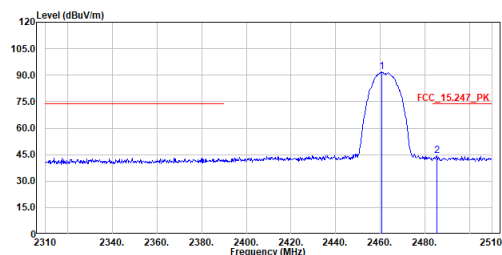


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2461.200	99.76	-----	-----	85.84	13.92	Average
2	2484.200	36.98	54.00	-17.02	22.91	14.07	Average

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 :11b_TX_2462MHz
Test By :Getaz

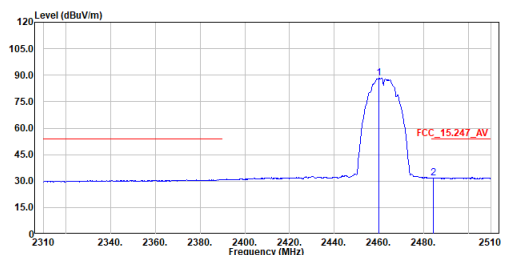


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2460.800	91.71	-----	-----	77.79	13.92	Peak
2	2485.400	44.58	74.00	-29.42	30.50	14.08	Peak

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 :11b_TX_2462MHz
Test By :Getaz



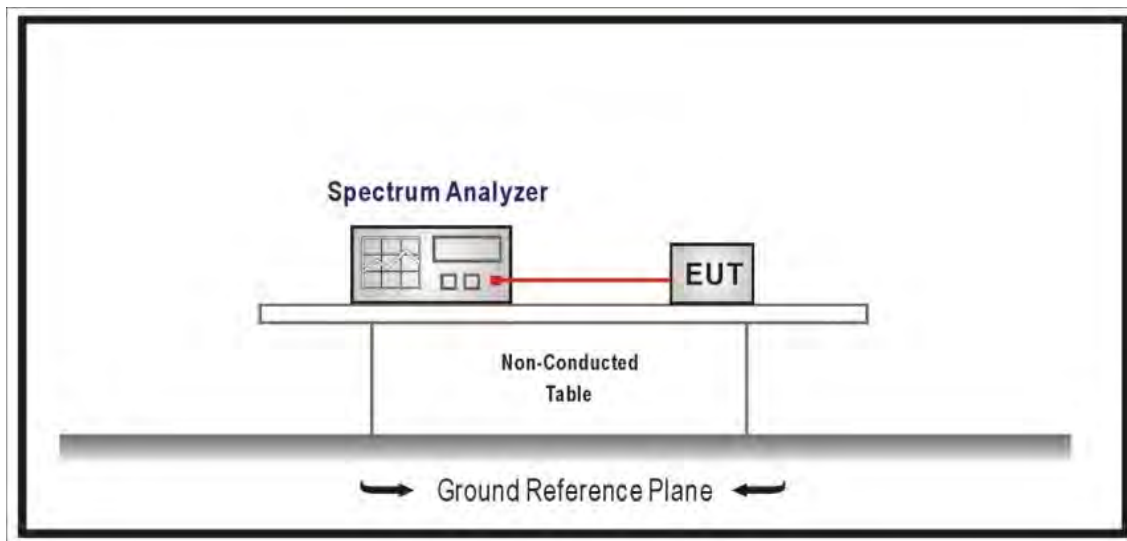
No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2460.000	88.42	-----	-----	74.50	13.92	Average
2	2484.200	31.83	54.00	-22.17	17.76	14.07	Average

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

Occupied Bandwidth: NA

The DTS bandwidth (6 dB): ≥ 0.50 MHz.

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

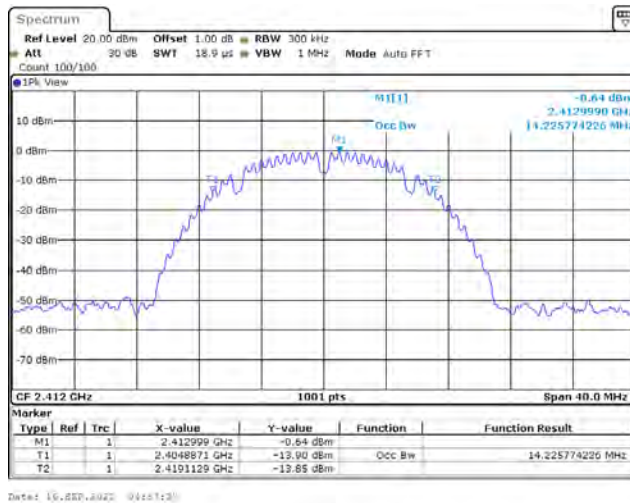
According to FCC Part 15 Subpart C Paragraph 15.247.

7.5. Test Result of Occupied Bandwidth

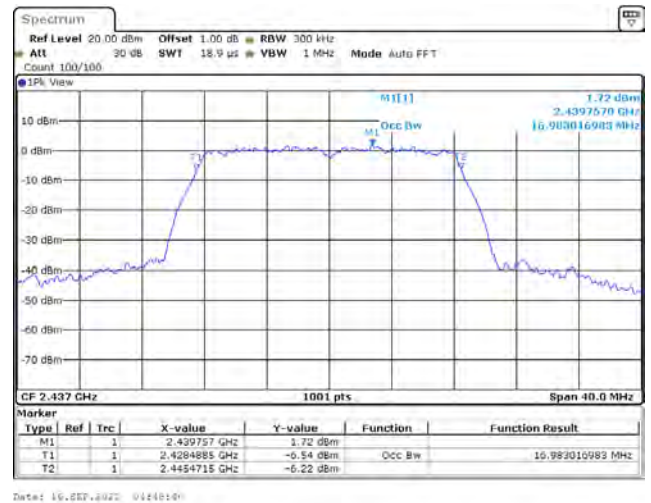
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	Limit (MHz)
802.11b	1	2412	14.226	-
	6	2437	14.226	-
	11	2462	14.226	-
802.11g	1	2412	16.863	-
	6	2437	16.983	-
	11	2462	16.983	-
802.11n (20 MHz)	1	2412	17.862	-
	6	2437	17.942	-
	11	2462	17.982	-
802.11n (40 MHz)	3	2422	36.523	-
	6	2437	36.444	-
	9	2452	36.603	-

Spectrum plot of maximum value

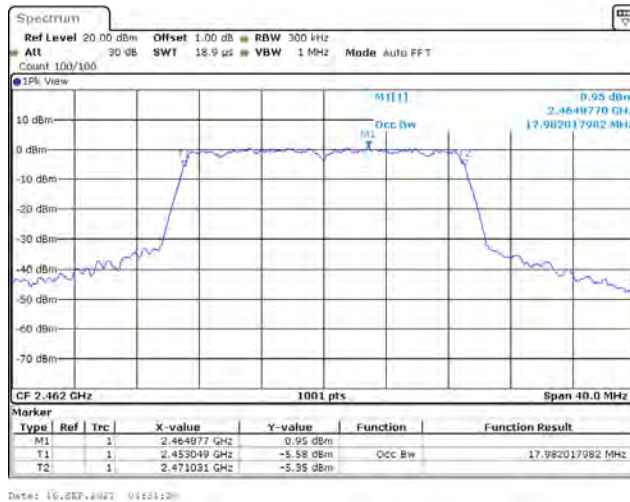
802.11b / Ant. 0 / 2412 MHz



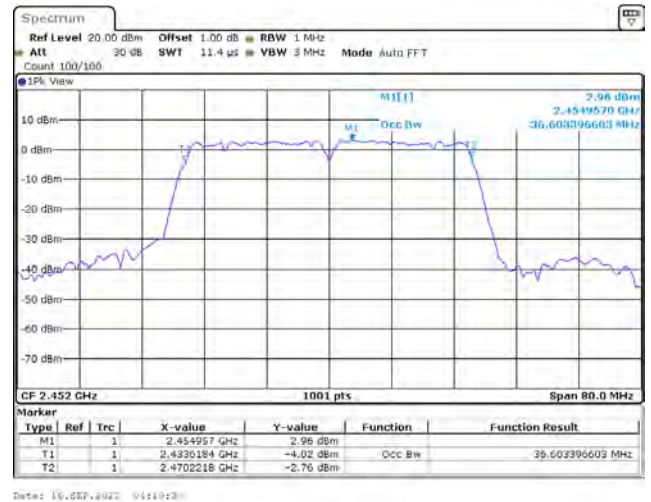
802.11g / Ant. 0 / 2437 MHz



802.11n (20 MHz) / Ant. 0 / 2462 MHz



802.11n (40 MHz) / Ant. 0 / 2452 MHz

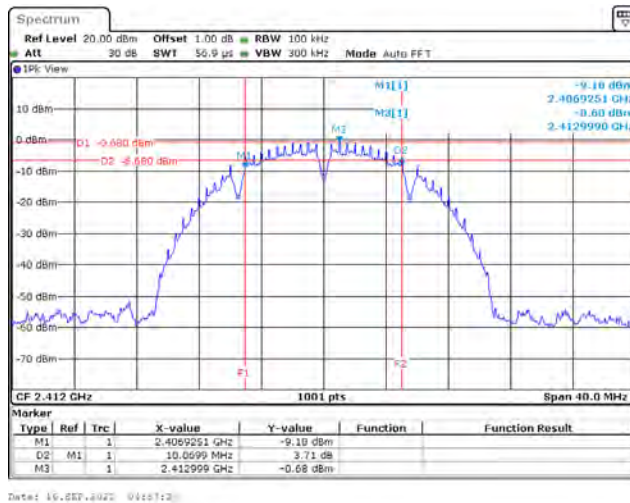


7.6. Test Result of DTS Bandwidth

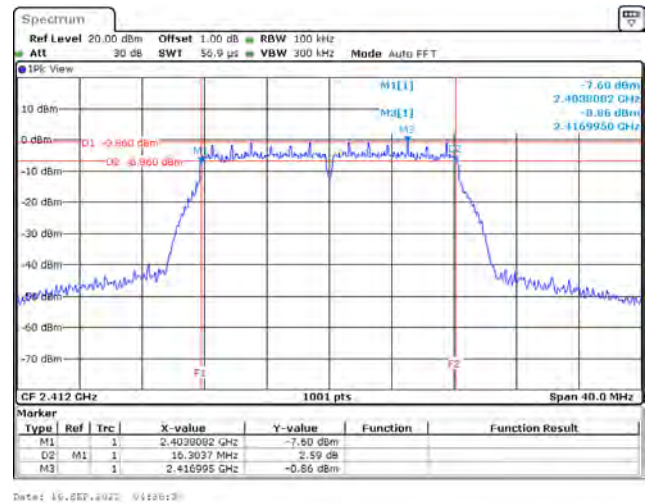
Modulation	Channel	Frequency (MHz)	DTS Bandwidth (MHz)	Limit (MHz)	Result
802.11b	1	2412	10.070	≥ 0.50	Pass
	6	2437	10.070	≥ 0.50	Pass
	11	2462	10.070	≥ 0.50	Pass
802.11g	1	2412	16.304	≥ 0.50	Pass
	6	2437	16.304	≥ 0.50	Pass
	11	2462	16.344	≥ 0.50	Pass
802.11n (20 MHz)	1	2412	17.582	≥ 0.50	Pass
	6	2437	17.582	≥ 0.50	Pass
	11	2462	17.582	≥ 0.50	Pass
802.11n (40 MHz)	3	2422	36.044	≥ 0.50	Pass
	6	2437	36.284	≥ 0.50	Pass
	9	2452	36.284	≥ 0.50	Pass

Spectrum plot of worst value

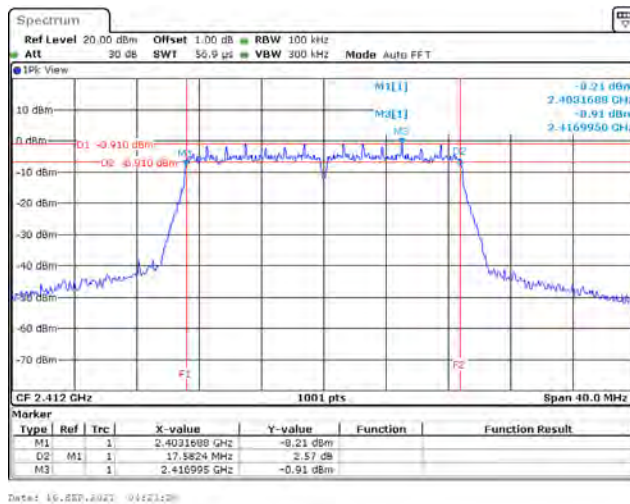
802.11b / Ant. 0 / 2412 MHz



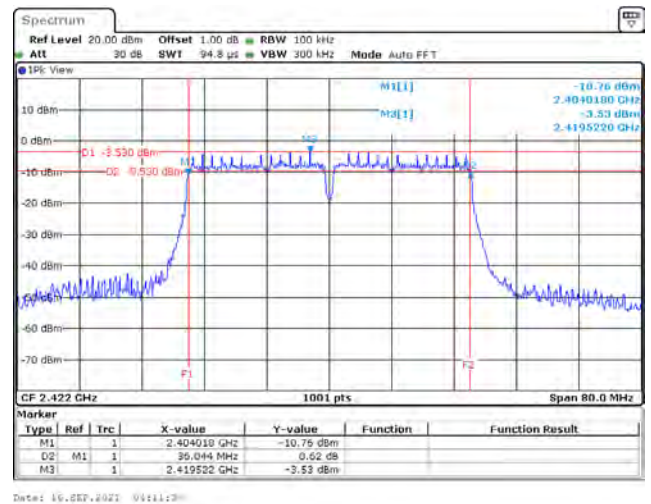
802.11g / Ant. 0 / 2412 MHz



802.11n (20 MHz) / Ant. 0 / 2412 MHz

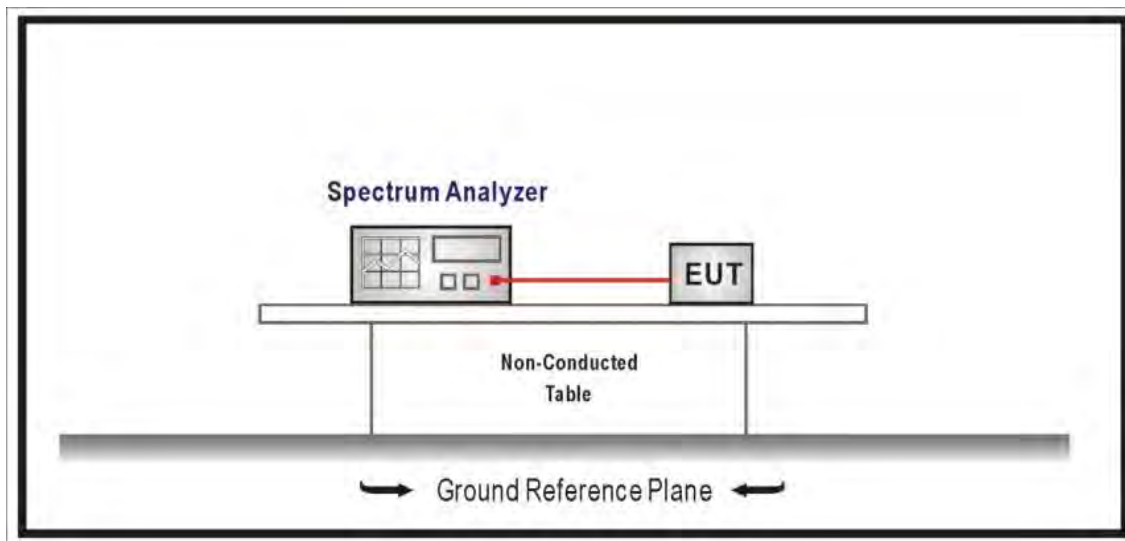


802.11n (40 MHz) / Ant. 0 / 2422 MHz



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	-24.890	-24.859	≤ 8.00	Pass
	6	2437	-24.030	-23.999	≤ 8.00	Pass
	11	2462	-24.870	-24.839	≤ 8.00	Pass
802.11g	1	2412	-24.810	-24.686	≤ 8.00	Pass
	6	2437	-24.900	-24.776	≤ 8.00	Pass
	11	2462	-25.240	-25.116	≤ 8.00	Pass
802.11n (20 MHz)	1	2412	-24.730	-24.565	≤ 8.00	Pass
	6	2437	-24.860	-24.695	≤ 8.00	Pass
	11	2462	-25.300	-25.135	≤ 8.00	Pass
802.11n (40 MHz)	3	2422	-27.570	-27.307	≤ 8.00	Pass
	6	2437	-27.390	-27.127	≤ 8.00	Pass
	9	2452	-28.340	-28.077	≤ 8.00	Pass

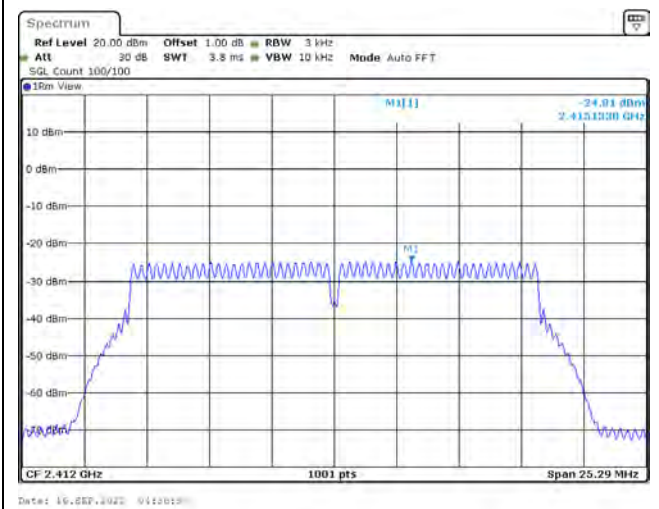
Note: Total power spectral density = power spectral density + duty factor, and the duty factor refer to section 1.10.

Spectrum plot of worst value

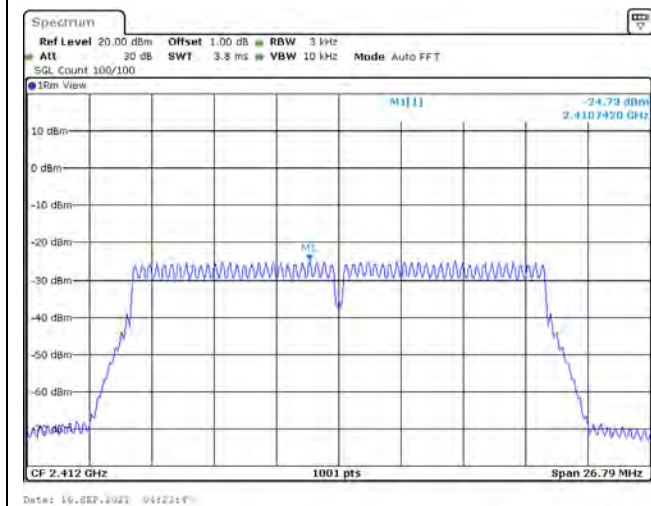
802.11b / Ant. 0 / 2437 MHz



802.11g / Ant. 0 / 2412 MHz



802.11n (20 MHz) / Ant. 0 / 2412 MHz



802.11n (40 MHz) / Ant. 0 / 2437 MHz

