



4.2.10 TEST RESULTS - ABOVE 1000MHZ - DIPOLE

EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	21 °C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b/CH01 (DIPOLE)		

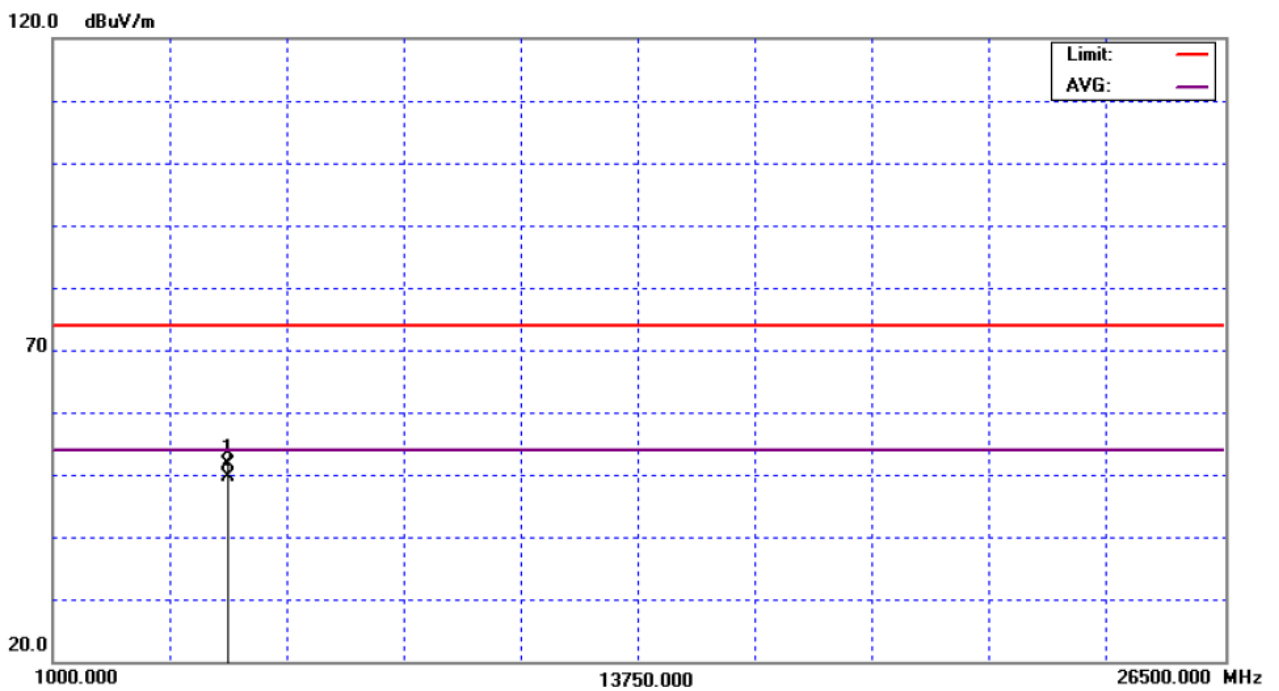
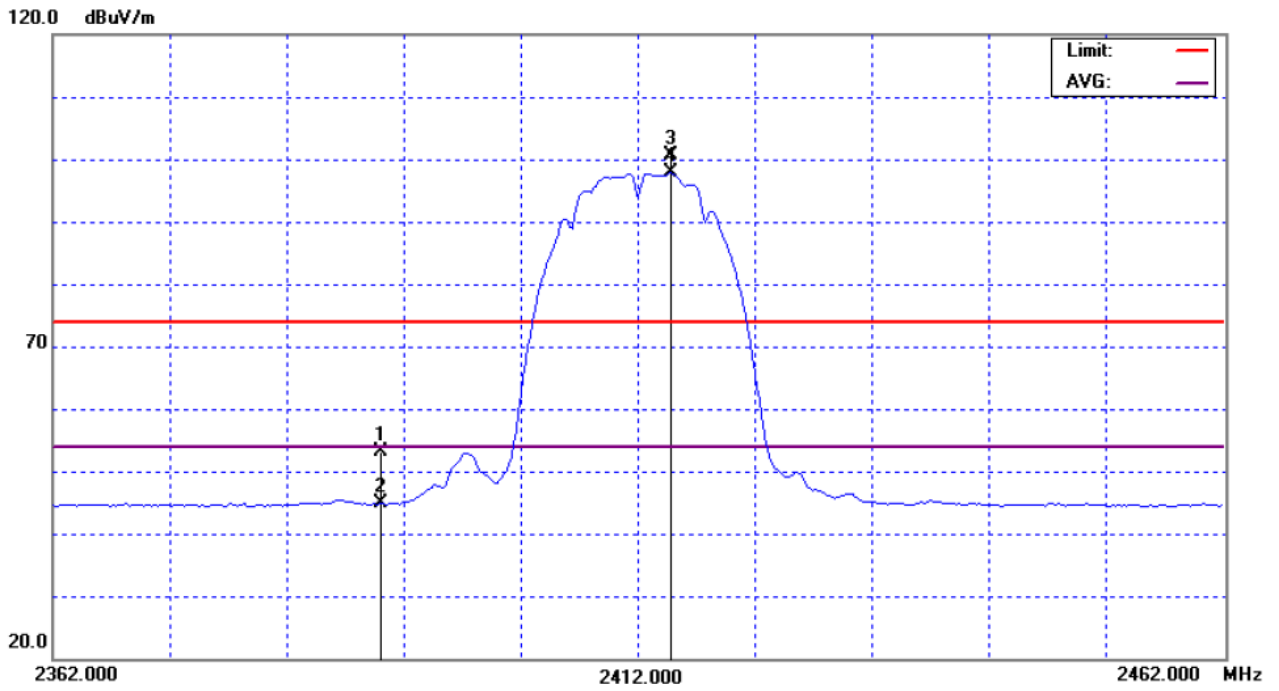
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	V	20.61	12.21	32.57	53.18	44.78	74.00	54.00	X/H
2414.80	V	67.86	65.09	32.71	100.57	97.80			X/F
4824.00	V	47.55	45.68	4.05	51.60	49.73	74.00	54.00	X/H

Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ◦
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency ◦“F” denotes fundamental frequency; “H” denotes spurious frequency. “E” denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (5) Data of measurement within this frequency range shown “ * ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :
“X” - denotes Laid on Table ; ”Y” - denotes Vertical Stand ; ”Z” - denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.



Orthogonal Axis : X
802.11b/CH01 (DIPOLE)(Above 1000 MHz, Vertical)





EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	21 °C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b/CH01 (DIPOLE)		

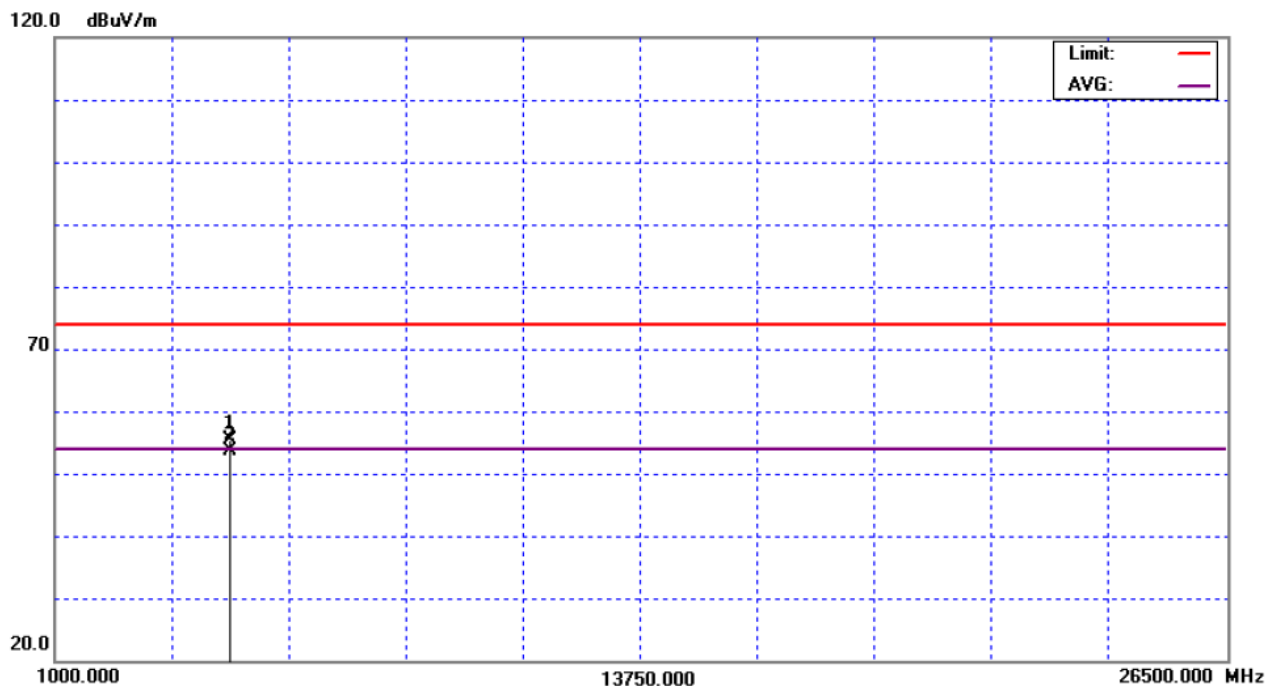
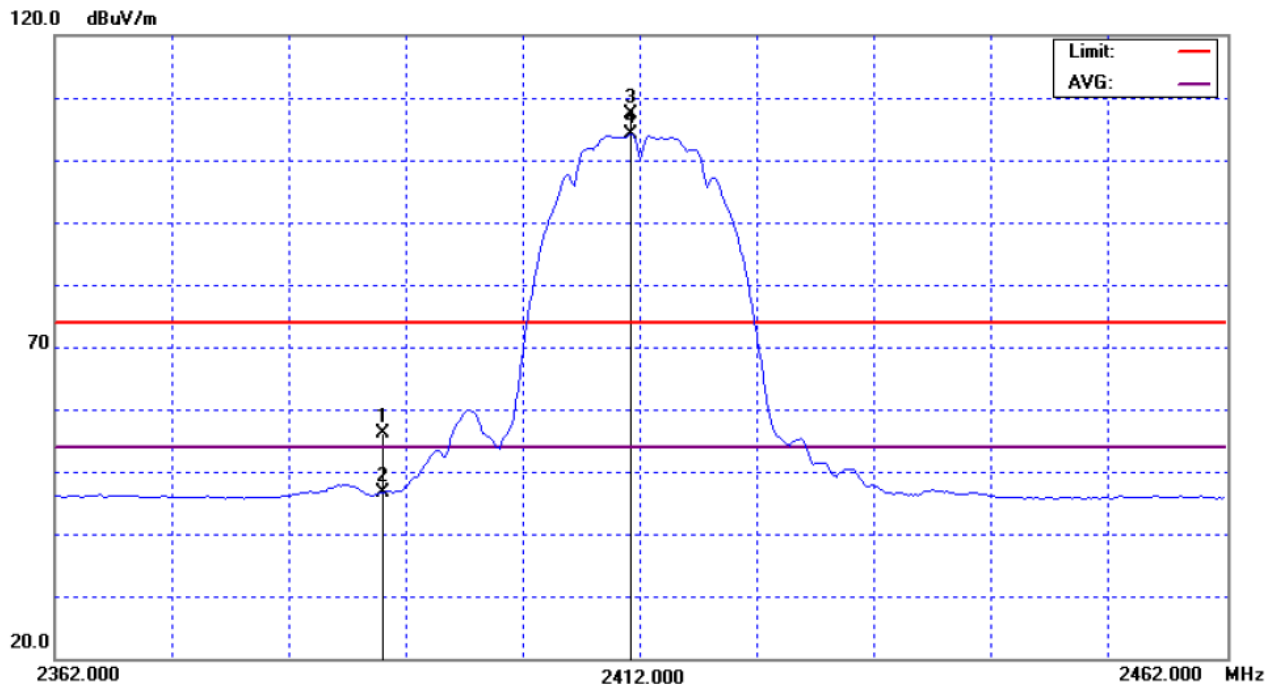
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	H	23.46	14.02	32.57	56.03	46.59	74.00	54.00	X/H
2411.20	H	74.78	71.40	32.69	107.47	104.09			X/F
4823.98	H	51.42	49.49	4.04	55.46	53.53	74.00	54.00	X/H

Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ◦
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency ◦ "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
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- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.



Orthogonal Axis : X
802.11b/CH01 (DIPOLE)(Above 1000 MHz, Horizontal)





EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	21 °C	Relative Humidity :	57%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b/CH06 (DIPOLE)		

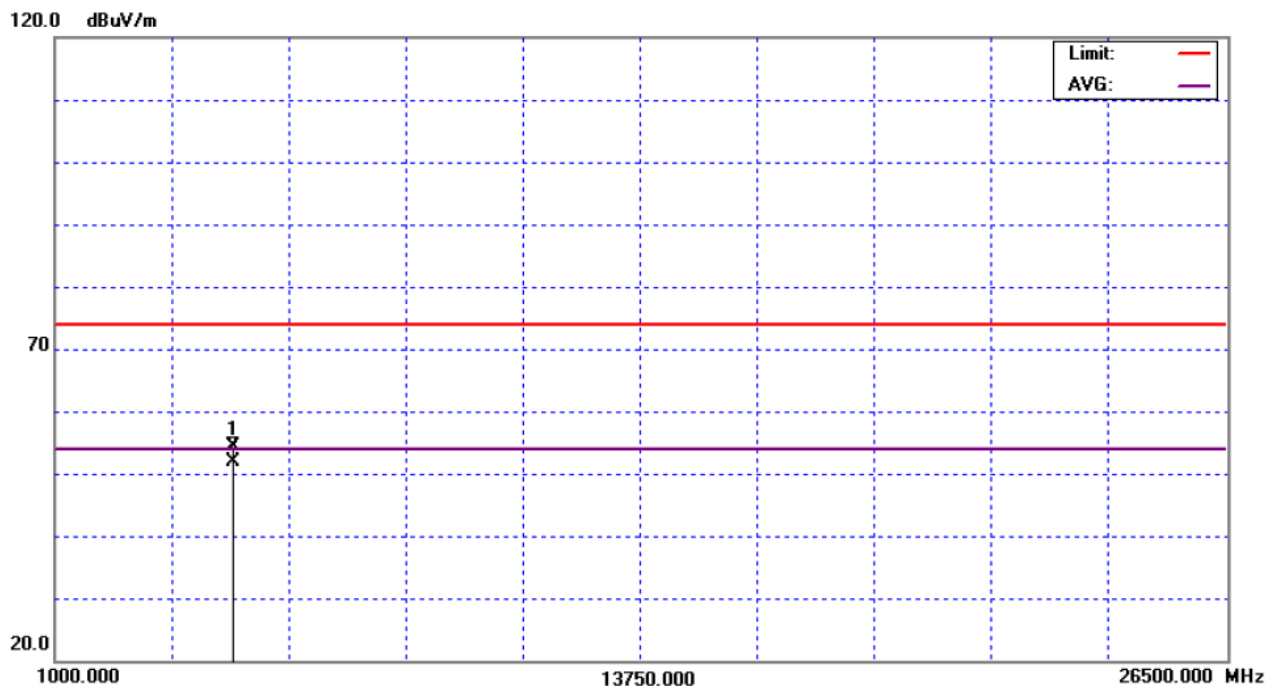
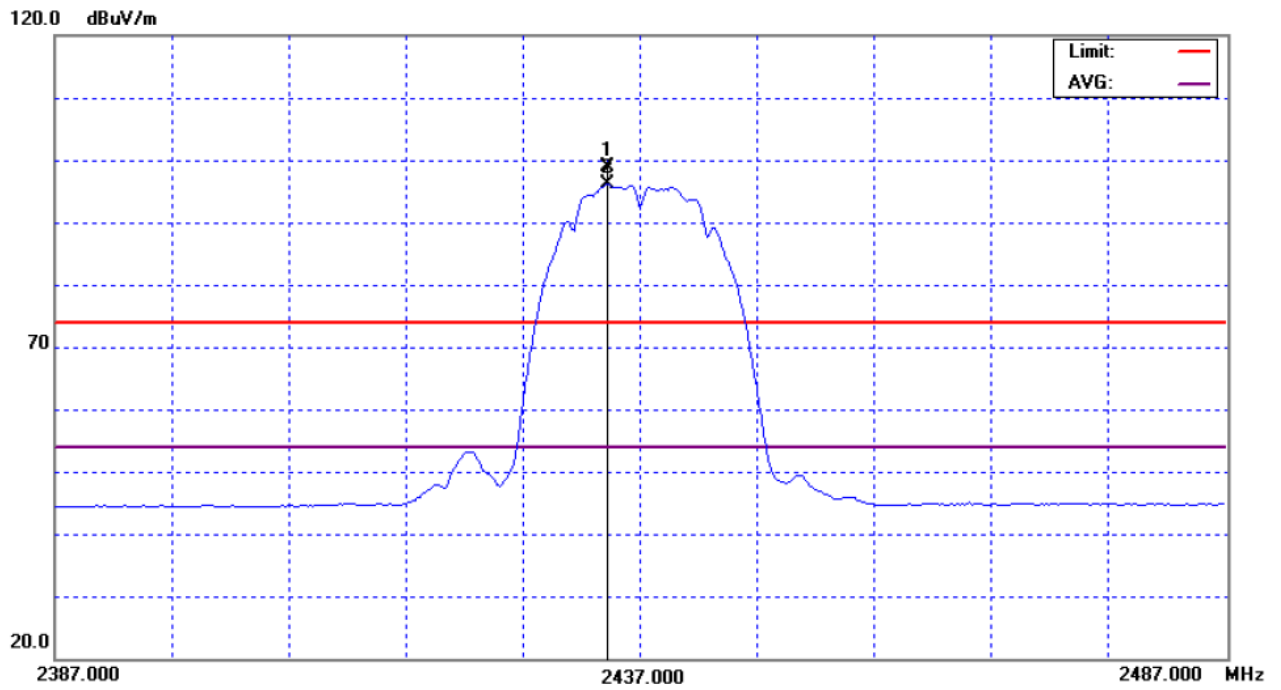
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2434.20	V	66.06	63.29	32.82	98.88	96.11			X/F
4873.97	V	50.08	47.58	4.29	54.37	51.87	74.00	54.00	X/H

Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ◦
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency ◦ “F” denotes fundamental frequency; “H” denotes spurious frequency. “E” denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
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- (7) EUT Orthogonal Axes :
“X” - denotes Laid on Table ; ”Y” - denotes Vertical Stand ; ”Z” - denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.



Orthogonal Axis : X
802.11b/CH06 (DIPOLE)(Above 1000 MHz, Vertical)





EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	21 °C	Relative Humidity :	57%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b/CH06 (DIPOLE)		

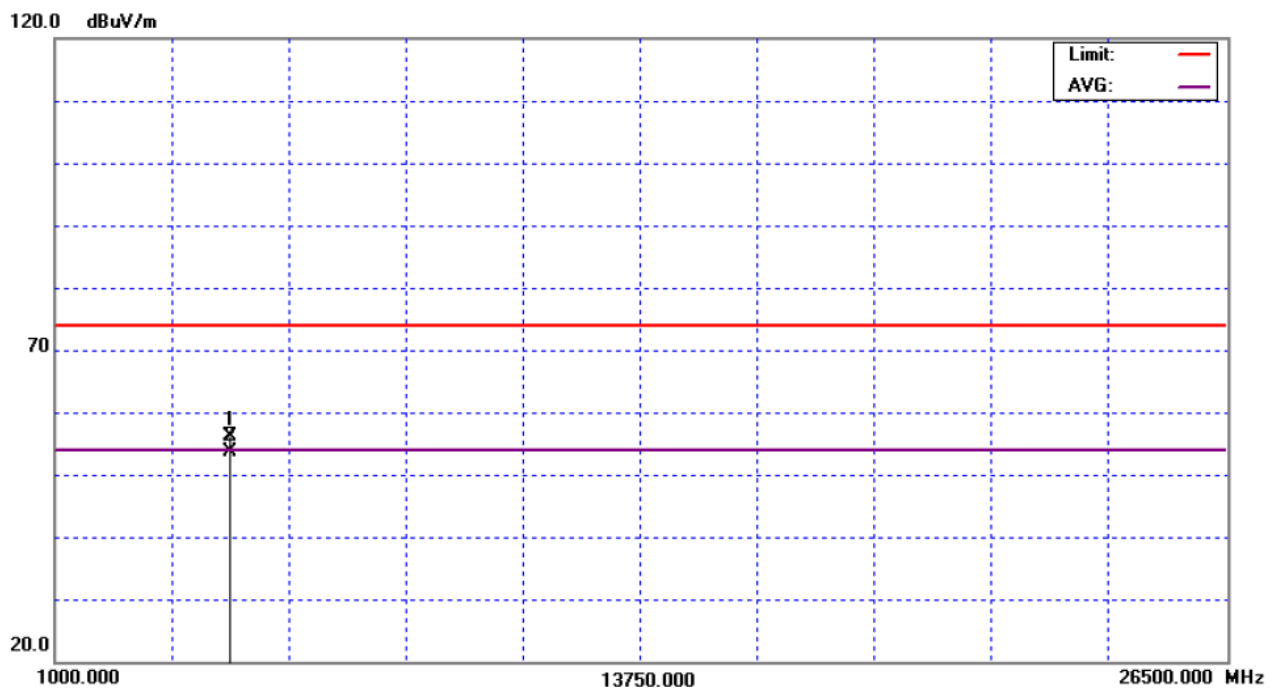
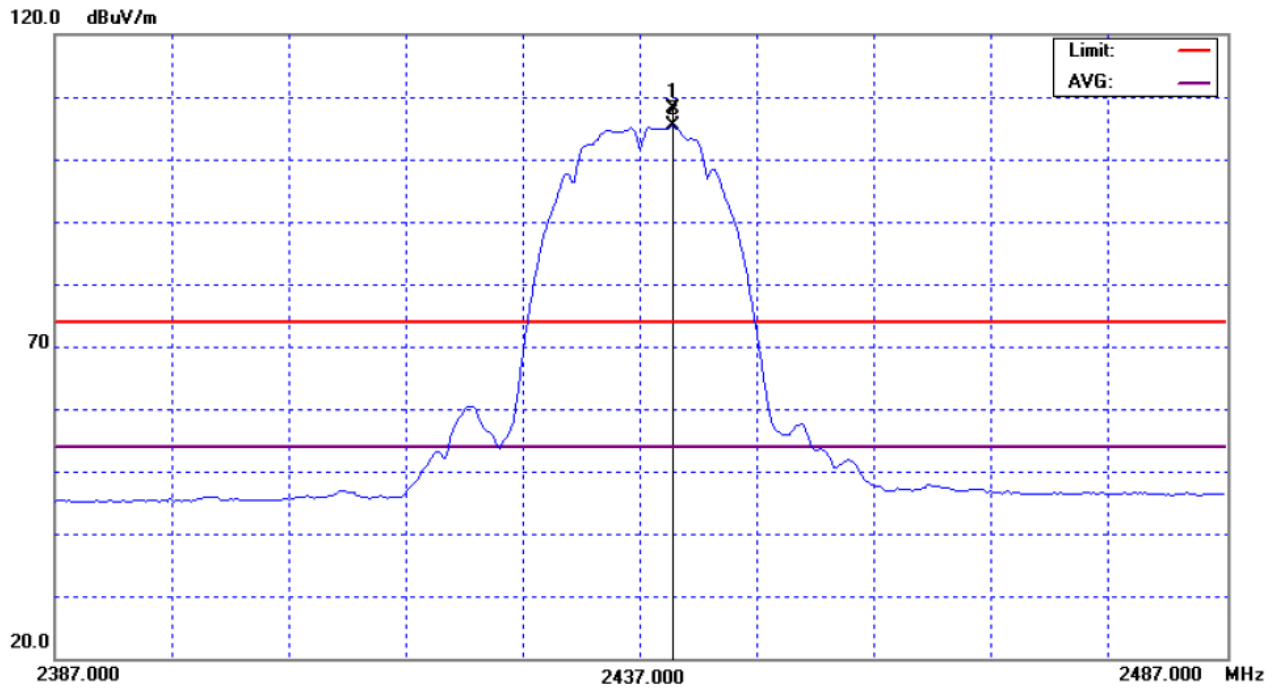
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2439.80	H	75.30	72.48	32.85	108.15	105.33			X/F
4824.00	H	52.00	49.61	4.05	56.05	53.66	74.00	54.00	X/H

Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ◦
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency ◦ “F” denotes fundamental frequency; “H” denotes spurious frequency. “E” denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
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- (7) EUT Orthogonal Axes :
“X” - denotes Laid on Table ; ”Y” - denotes Vertical Stand ; ”Z” - denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.



Orthogonal Axis : X
802.11b/CH06 (DIPOLE)(Above 1000 MHz, Horizontal)





EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	21 °C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b/CH11 (DIPOLE)		

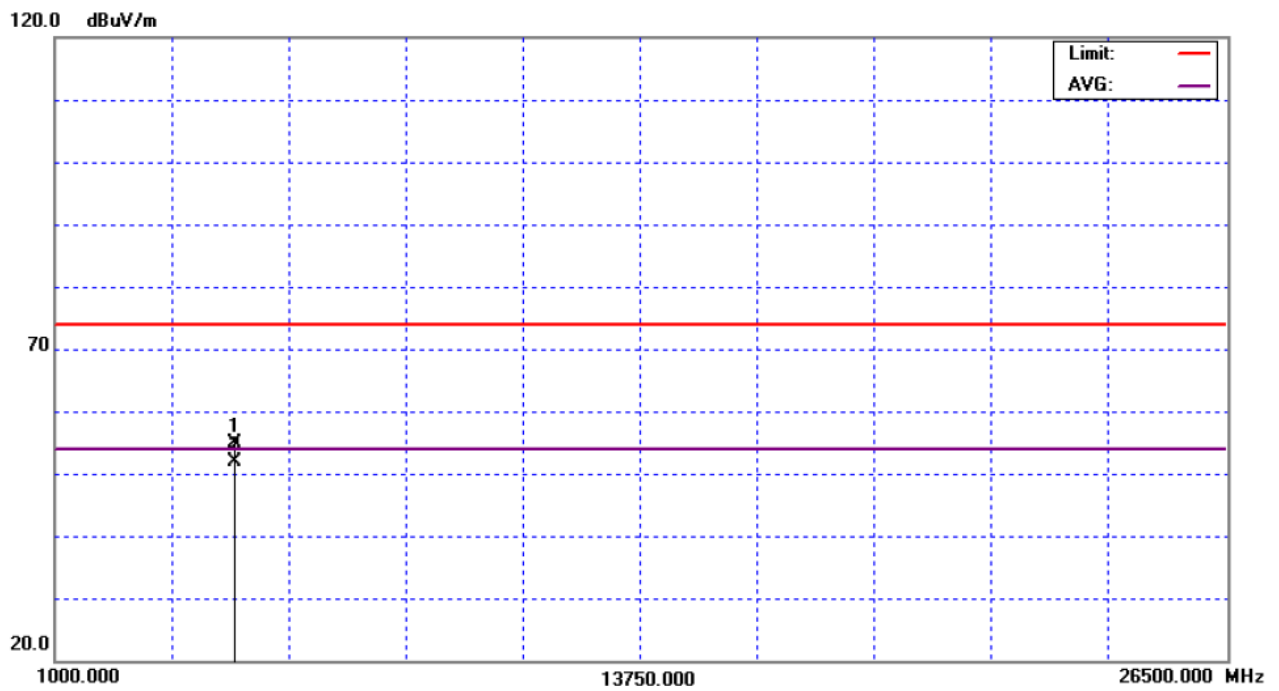
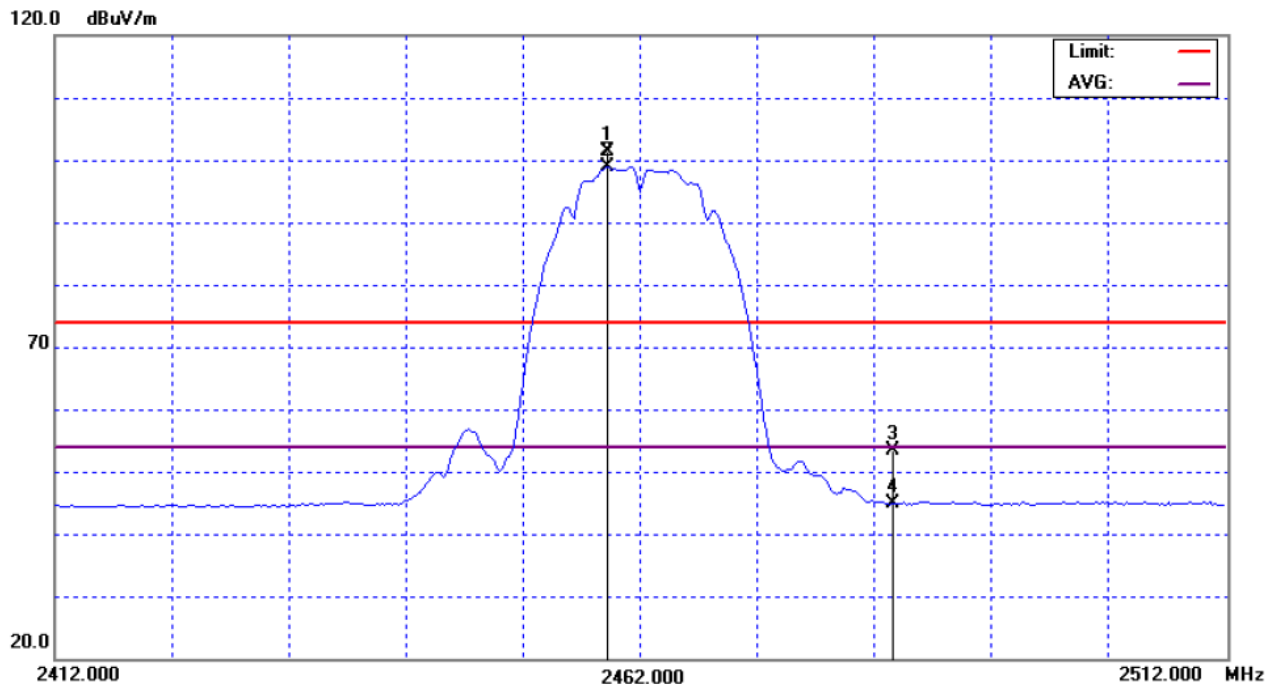
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2459.20	V	68.45	65.89	32.96	101.41	98.85			X/F
2483.50	V	20.35	11.77	33.10	53.45	44.87	74.00	54.00	X/H
4923.97	V	50.27	47.24	4.54	54.81	51.78	74.00	54.00	X/H

Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ◦
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency ◦ “F” denotes fundamental frequency; “H” denotes spurious frequency. “E” denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
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- (7) EUT Orthogonal Axes :
“X” - denotes Laid on Table ; ”Y” - denotes Vertical Stand ; ”Z” - denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.



Orthogonal Axis : X
802.11b/CH11 (DIPOLE)(Above 1000 MHz, Vertical)





EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	21 °C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b/CH11 (DIPOLE)		

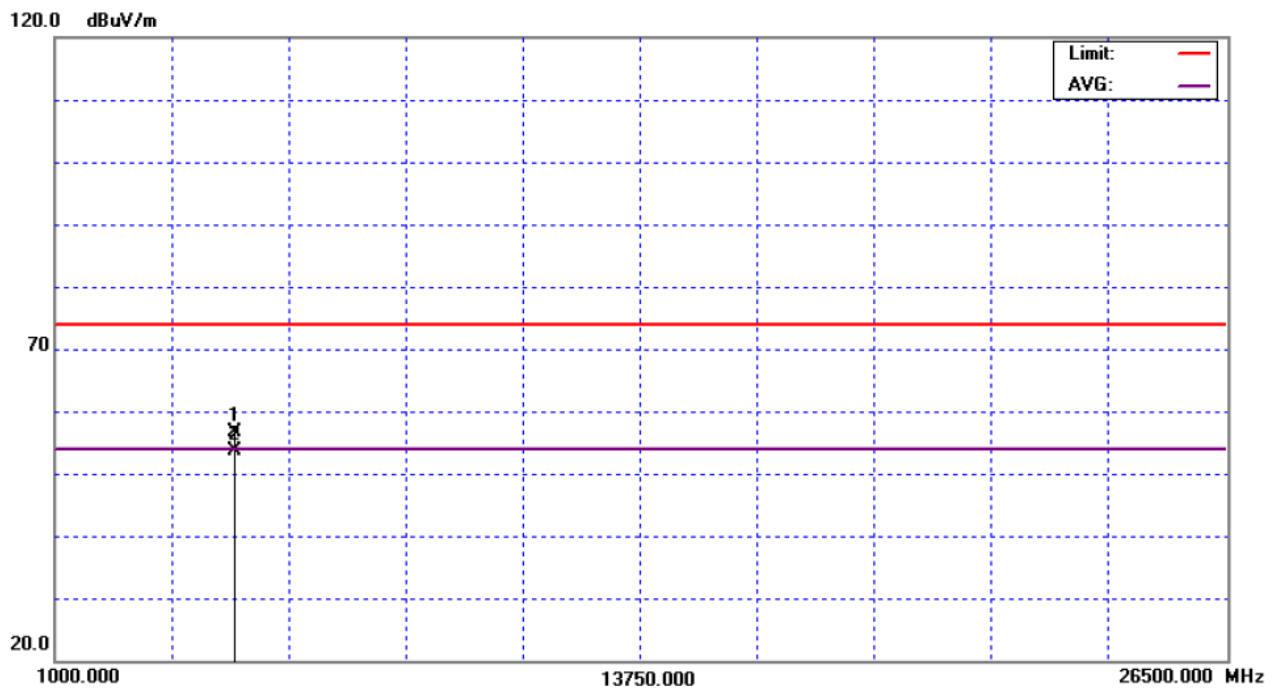
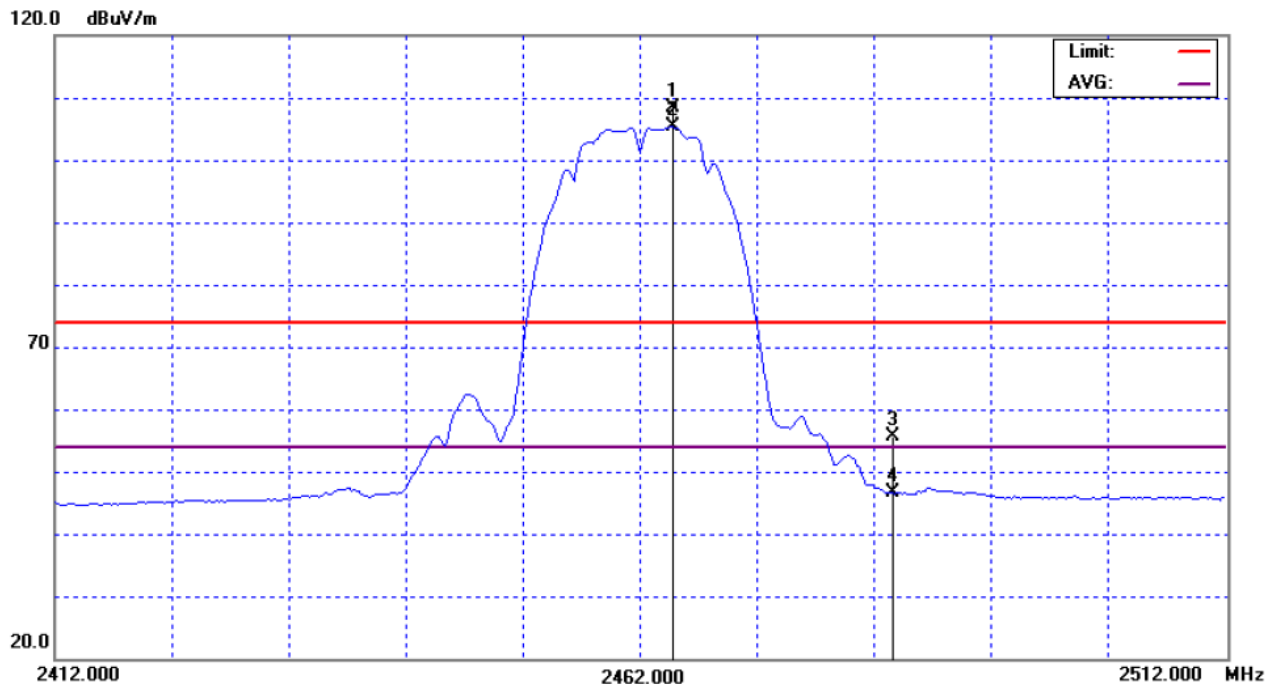
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2464.80	H	75.29	72.41	32.99	108.28	105.40			X/F
2483.50	H	22.54	13.47	33.10	55.64	46.57	74.00	54.00	X/H
4923.98	H	52.11	49.15	4.54	56.65	53.69	74.00	54.00	X/H

Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ◦
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency ◦ "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
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- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.



Orthogonal Axis : X
802.11b/CH11 (DIPOLE)(Above 1000 MHz, Horizontal)





EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	16 °C	Relative Humidity :	57%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11g/CH01 (DIPOLE)		

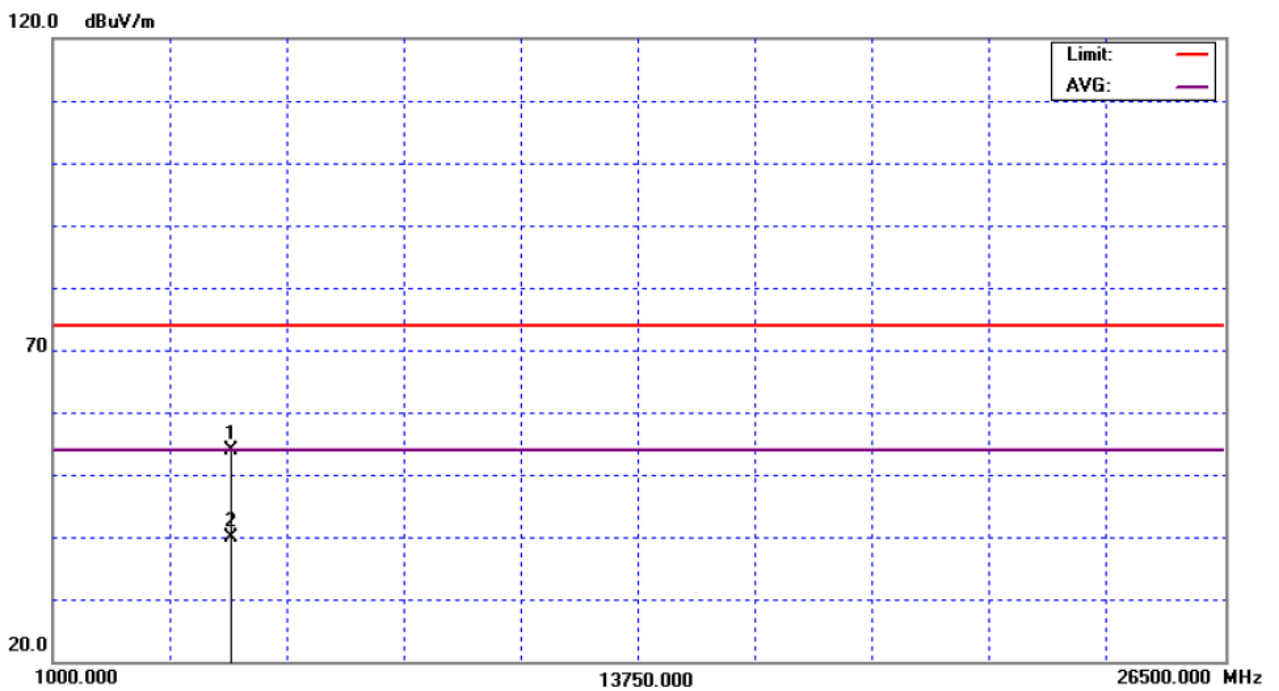
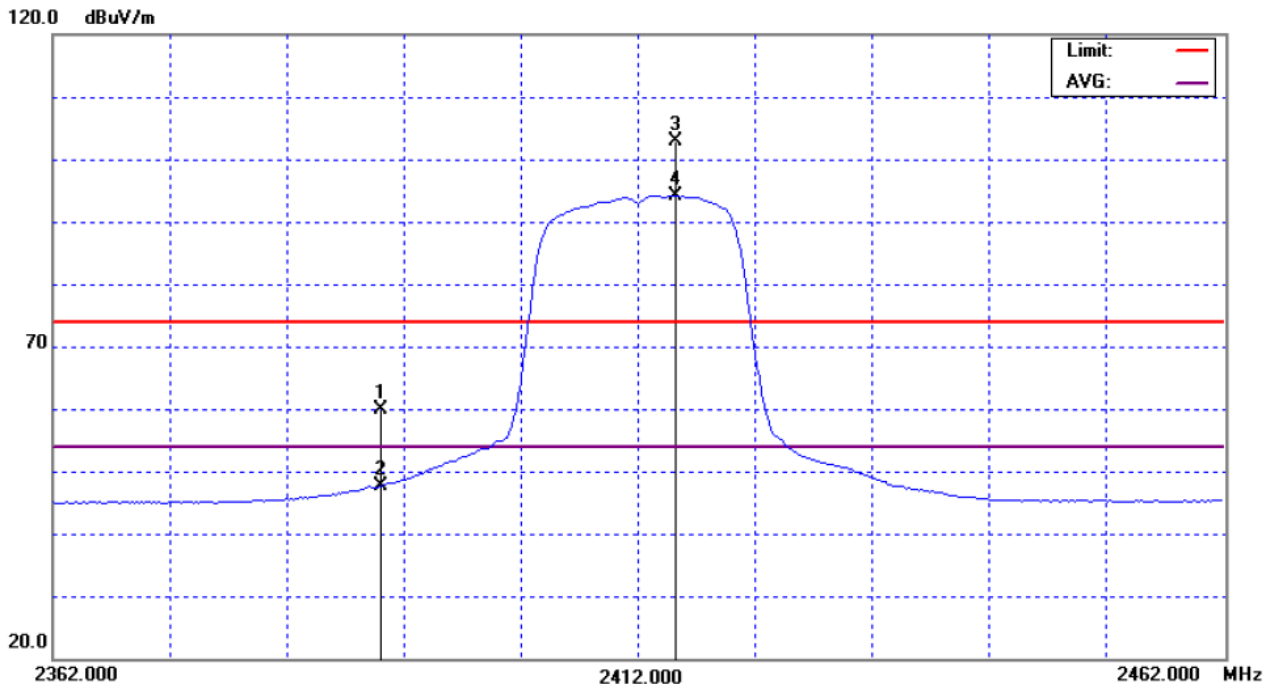
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	V	27.29	15.00	32.57	59.86	47.57	74.00	54.00	X/H
2415.20	V	70.10	61.46	32.72	102.82	94.18			X/F
4826.20	V	49.83	35.79	4.06	53.89	39.85	74.00	54.00	X/H

Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ◦
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency ◦“F” denotes fundamental frequency; “H” denotes spurious frequency. “E” denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
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- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :
“X” - denotes Laid on Table ; ”Y” - denotes Vertical Stand ; ”Z” - denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.



Orthogonal Axis : X
802.11g/CH01 (DIPOLE)(Above 1000 MHz, Vertical)





EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	16 °C	Relative Humidity :	57%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11g/CH01 (DIPOLE)		

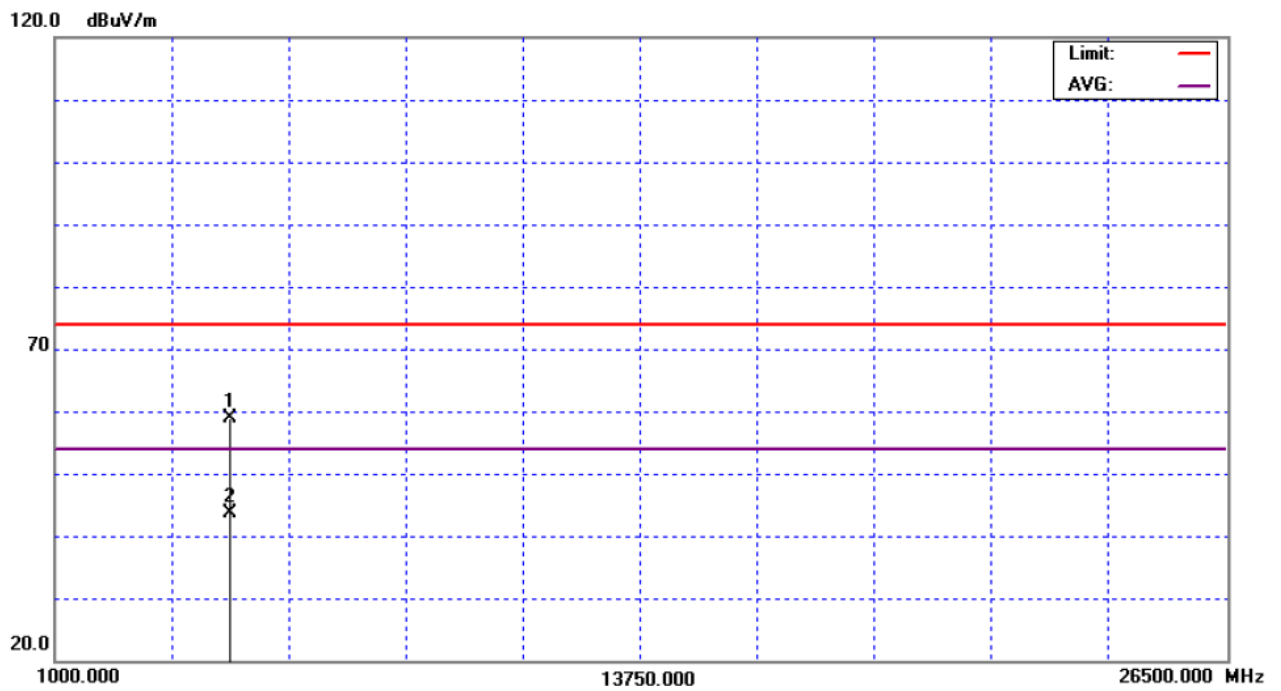
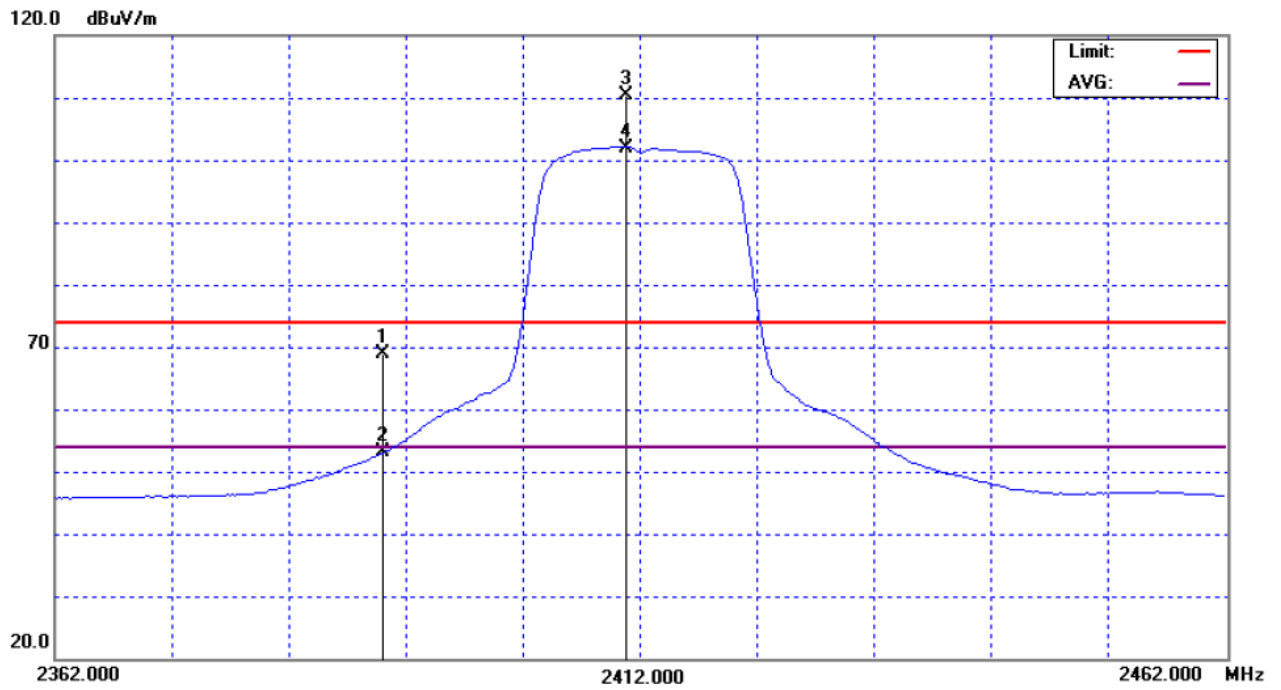
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	H	36.33	20.51	32.57	68.90	53.08	74.00	54.00	X/H
2410.80	H	77.72	69.08	32.69	110.41	101.77			X/F
4823.96	H	54.74	39.64	4.04	58.78	43.68	74.00	54.00	X/H

Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ◦
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency ◦ "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
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"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.



Orthogonal Axis : X
802.11g/CH01 (DIPOLE)(Above 1000 MHz, Horizontal)





EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	16 °C	Relative Humidity :	57%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11g/CH06 (DIPOLE)		

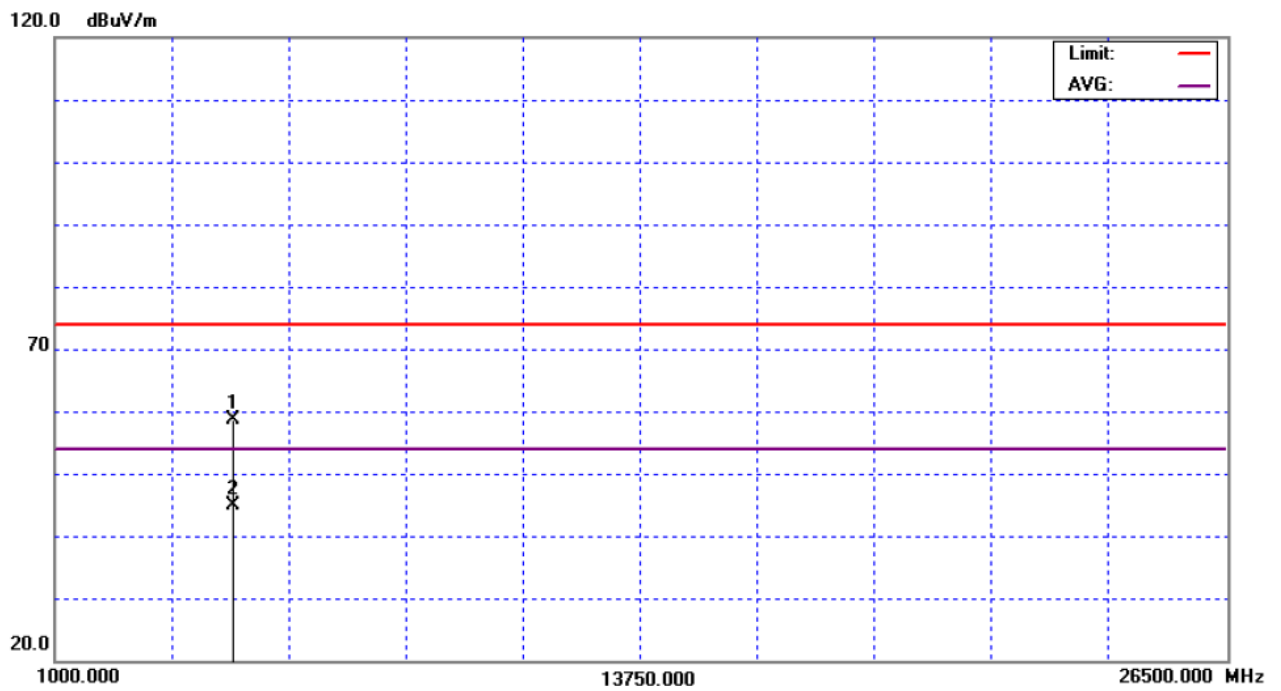
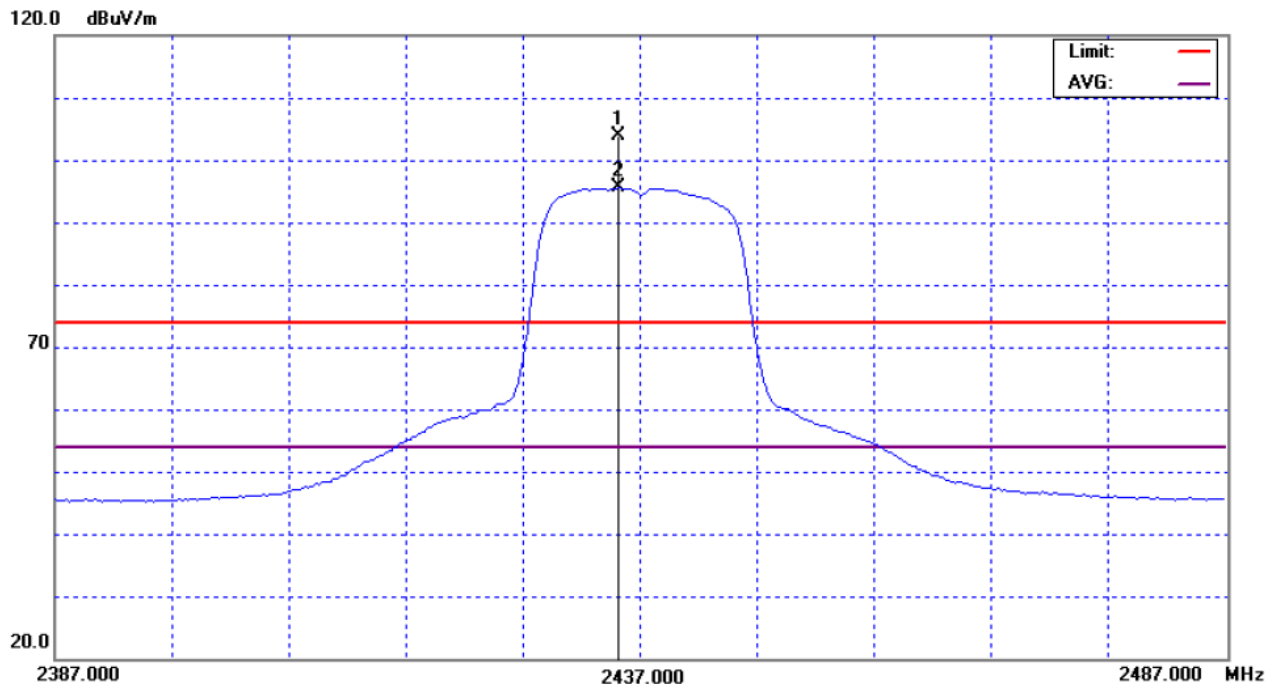
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2435.20	V	71.07	62.68	32.83	103.90	95.51			X/F
4875.60	V	54.24	40.61	4.30	58.54	44.91	74.00	54.00	X/H

Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ◦
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- (7) EUT Orthogonal Axes :
“X” - denotes Laid on Table ; ”Y” - denotes Vertical Stand ; ”Z” - denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.



Orthogonal Axis : X
802.11g/CH06 (DIPOLE)(Above 1000 MHz, Vertical)





EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	16 °C	Relative Humidity :	57%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11g/CH06 (DIPOLE)		

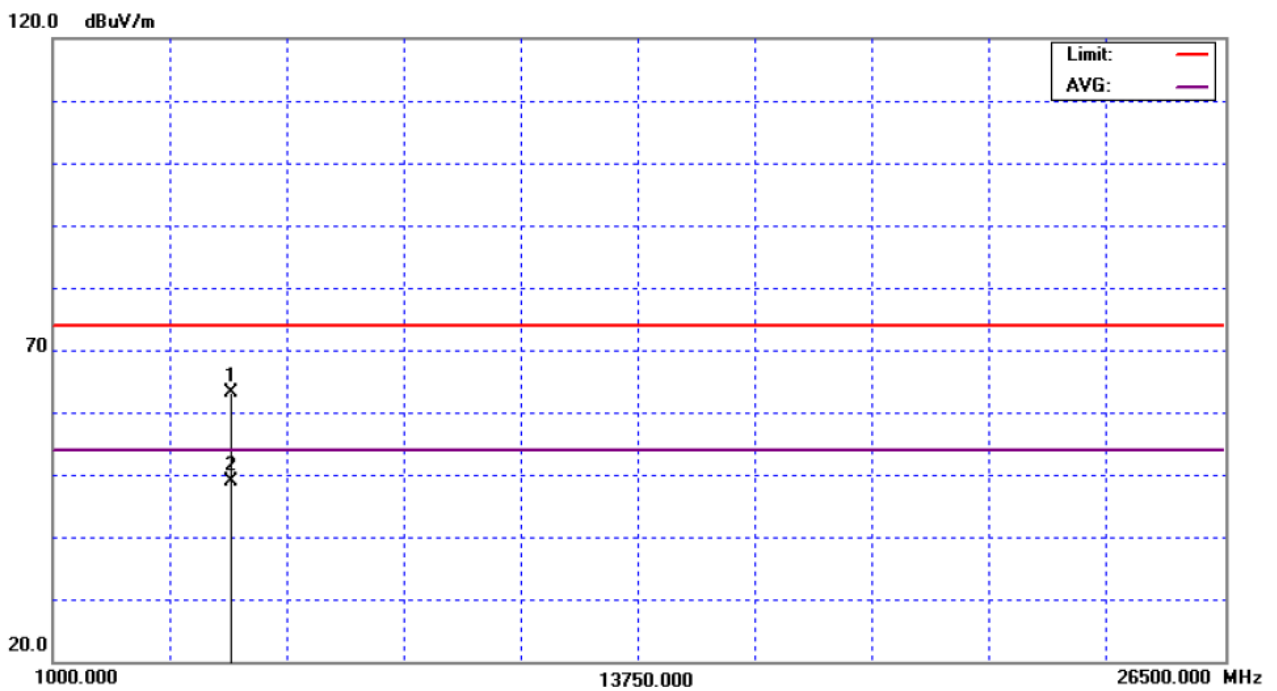
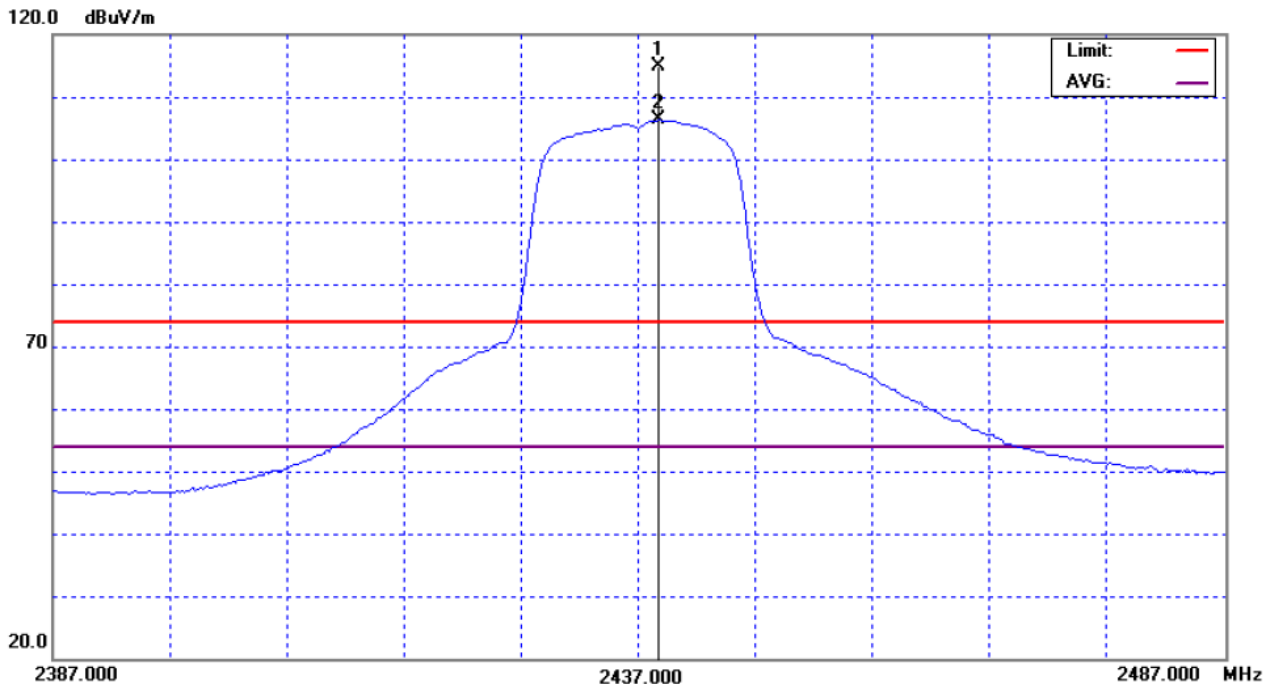
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2438.80	H	81.98	73.41	32.85	114.83	106.26			X/F
4875.60	H	58.79	44.51	4.30	63.09	48.81	74.00	54.00	X/H

Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ◦
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- (5) Data of measurement within this frequency range shown “ * ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :
“X” - denotes Laid on Table ; “Y” - denotes Vertical Stand ; “Z” - denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.



Orthogonal Axis : X
802.11g/CH06 (DIPOLE)(Above 1000 MHz, Horizontal)





EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	16 °C	Relative Humidity :	57%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11g/CH11 (DIPOLE)		

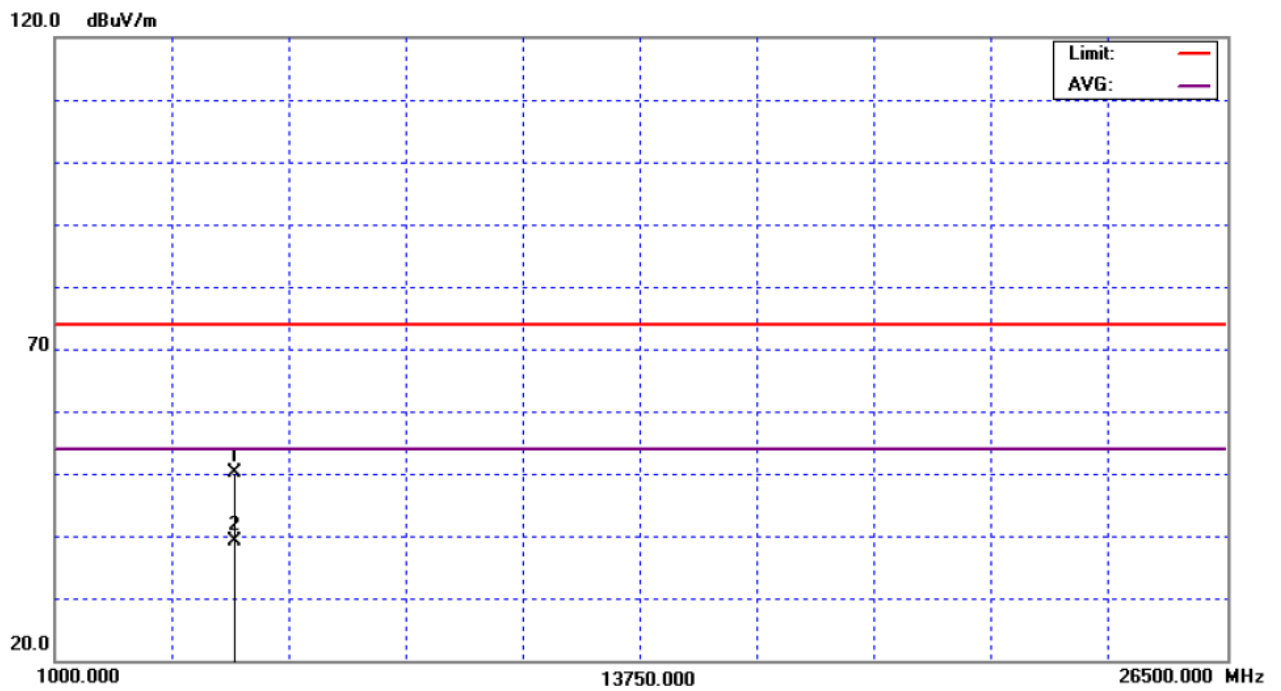
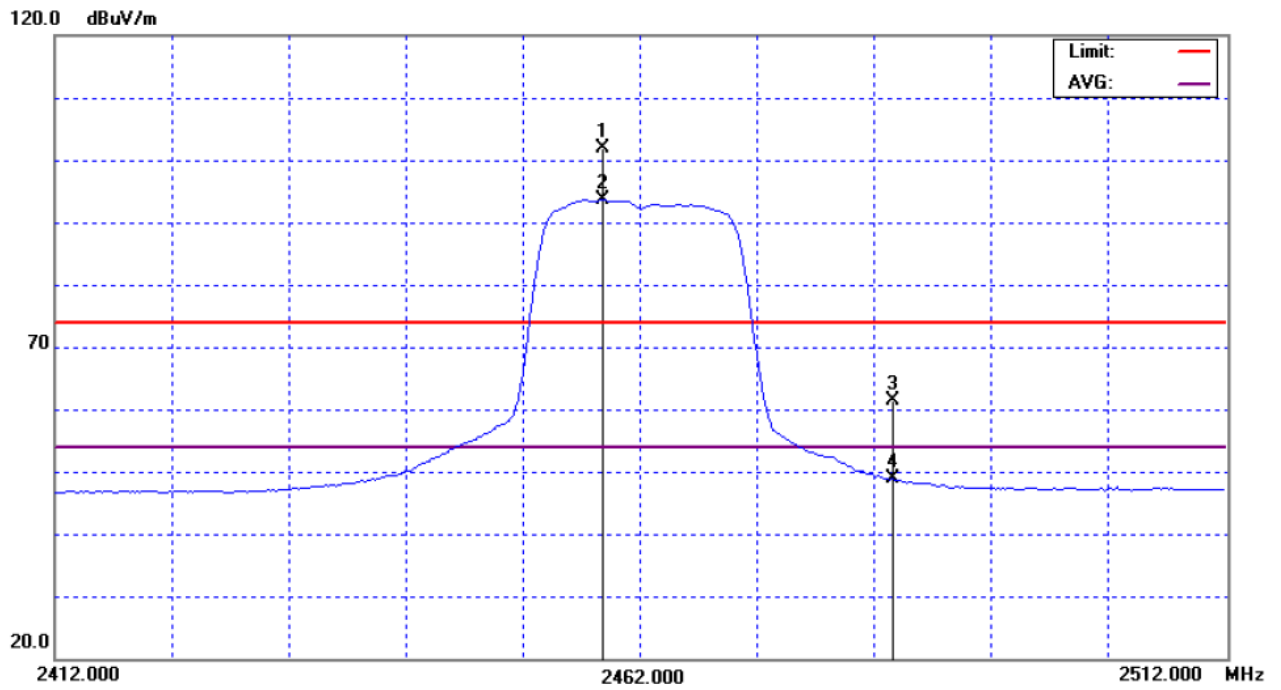
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2458.80	V	69.03	60.68	32.96	101.99	93.64			X/F
2483.50	V	28.35	15.77	33.10	61.45	48.87	74.00	54.00	X/H
4922.80	V	45.67	34.54	4.53	50.20	39.07	74.00	54.00	X/H

Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ◦
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency ◦ “F” denotes fundamental frequency; “H” denotes spurious frequency. “E” denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (5) Data of measurement within this frequency range shown “ * ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :
“X” - denotes Laid on Table ; ”Y” - denotes Vertical Stand ; ”Z” - denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.



Orthogonal Axis : X
802.11g/CH11 (DIPOLE)(Above 1000 MHz, Vertical)





EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	16 °C	Relative Humidity :	57%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11g/CH11 (DIPOLE)		

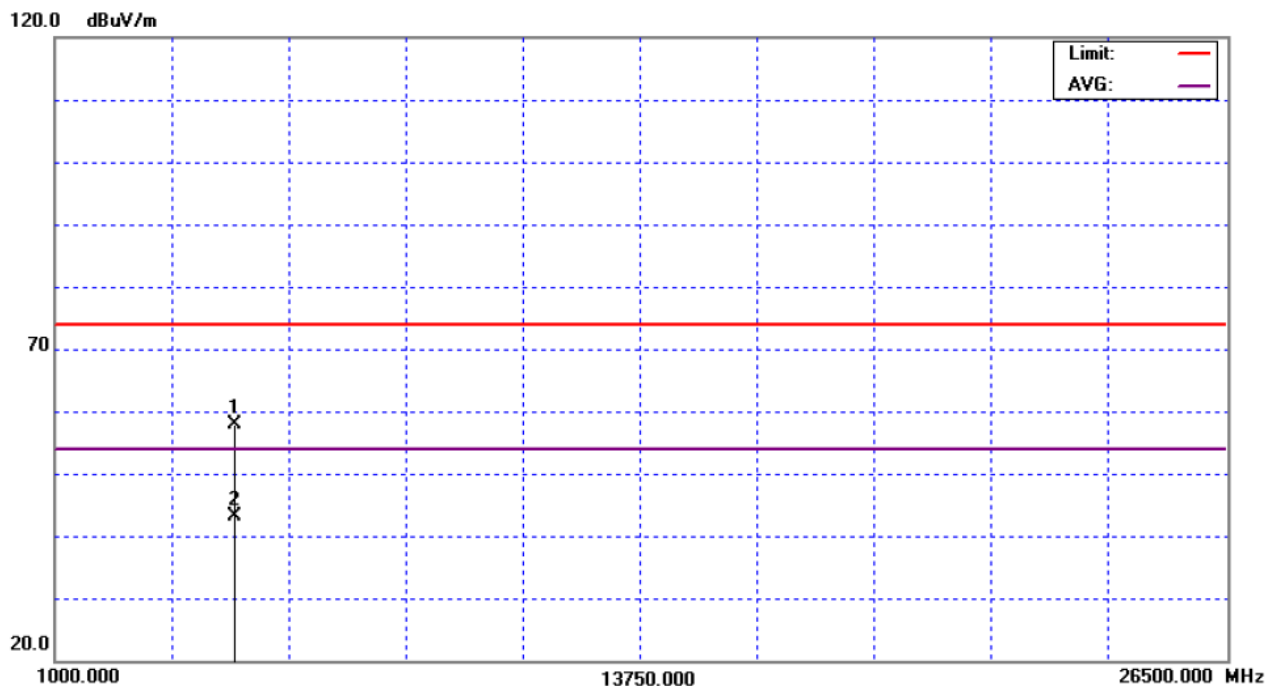
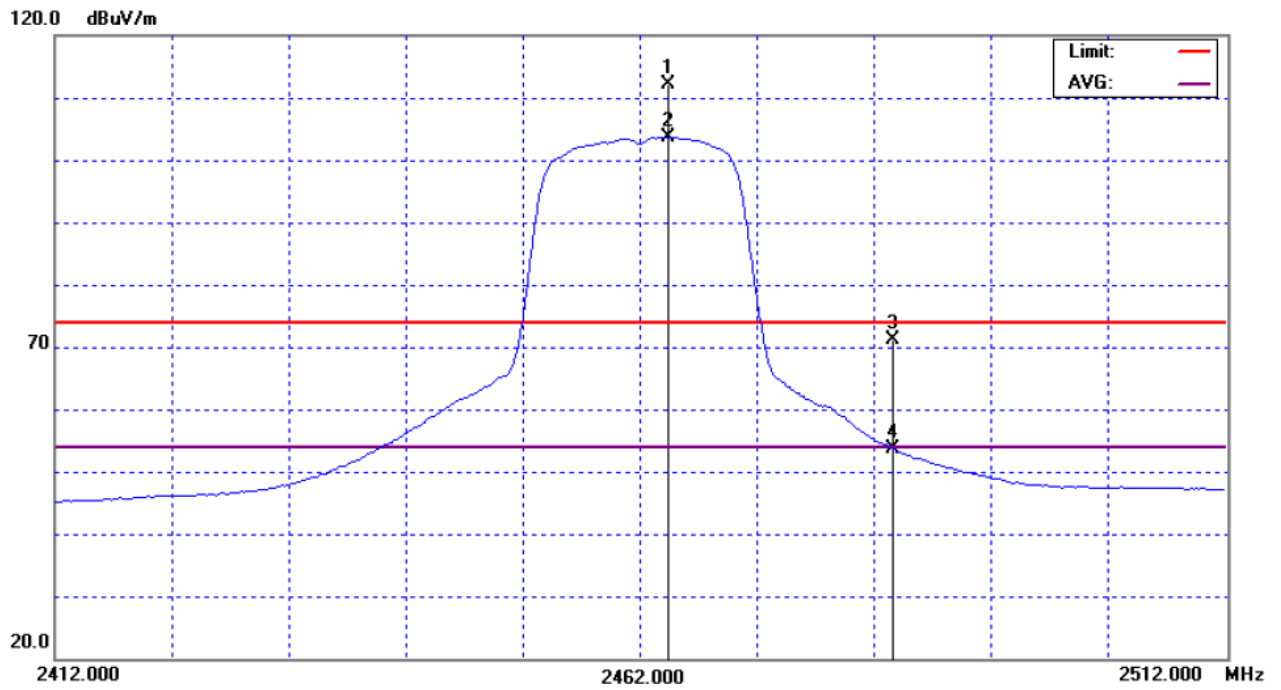
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2464.40	H	79.13	70.65	32.99	112.12	103.64			X/F
2483.50	H	38.02	20.65	33.10	71.12	53.75	74.00	54.00	X/H
4922.00	H	53.34	38.49	4.53	57.87	43.02	74.00	54.00	X/H

Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ◦
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency ◦ "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.



Orthogonal Axis : X
802.11g/CH11 (DIPOLE)(Above 1000 MHz, Horizontal)





EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	16 °C	Relative Humidity :	57%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/20M/CH01 (DIPOLE)		

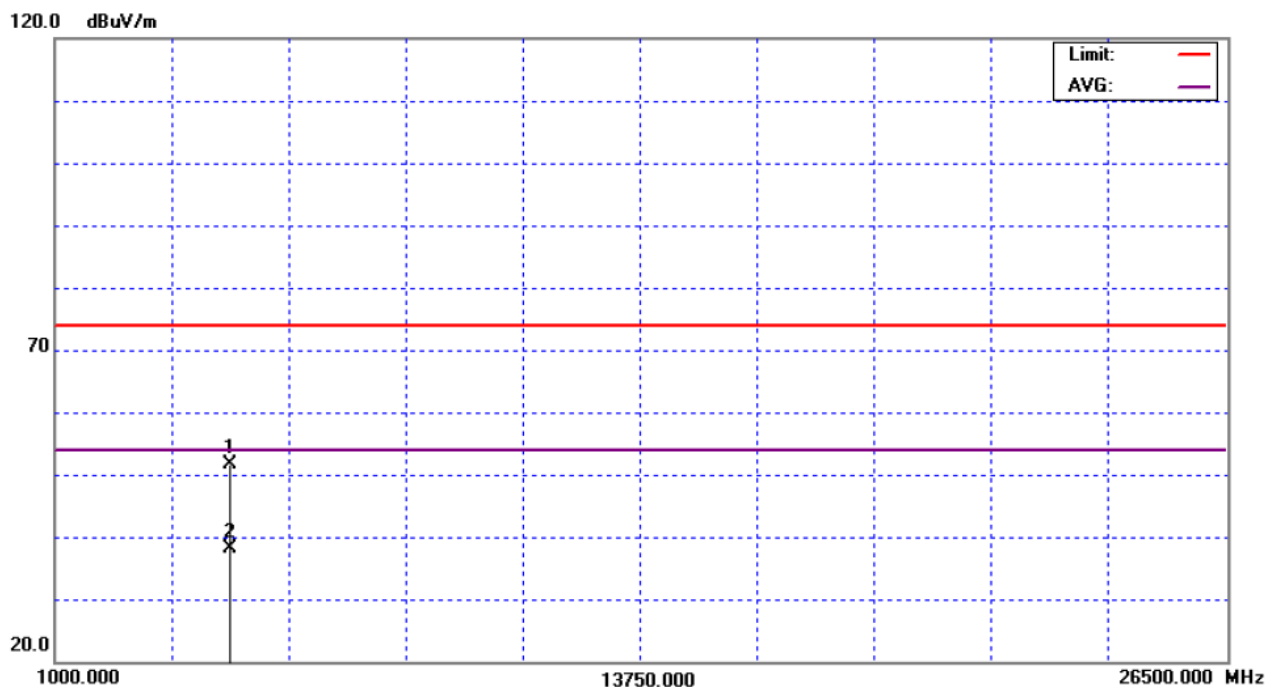
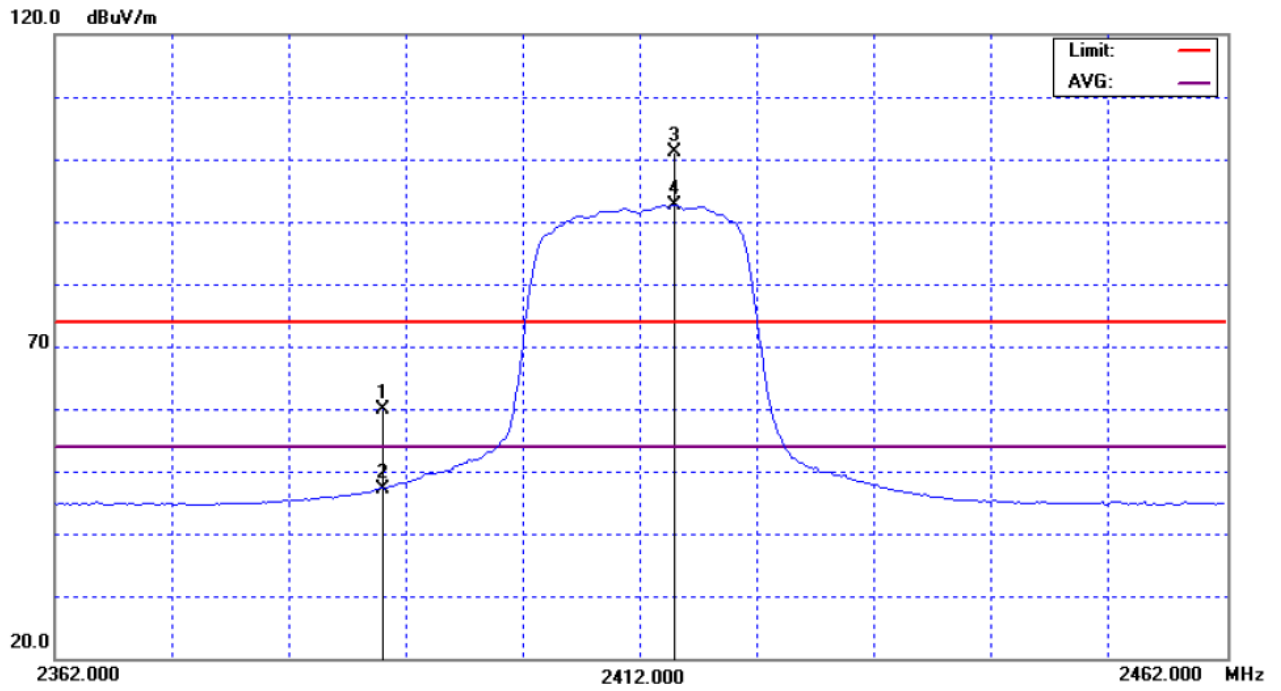
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	V	27.29	14.63	32.57	59.86	47.20	74.00	54.00	X/H
2415.00	V	68.45	59.88	32.71	101.16	92.59			X/F
4823.60	V	47.66	34.21	4.04	51.70	38.25	74.00	54.00	X/H

Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ◦
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency ◦“F” denotes fundamental frequency; “H” denotes spurious frequency. “E” denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (5) Data of measurement within this frequency range shown “ * ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :
“X” - denotes Laid on Table ; ”Y” - denotes Vertical Stand ; ”Z” - denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.



Orthogonal Axis : X
802.11n/20M/CH01 (DIPOLE)(Above 1000 MHz, Vertical)





EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	16 °C	Relative Humidity :	57%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/20M/CH01 (DIPOLE)		

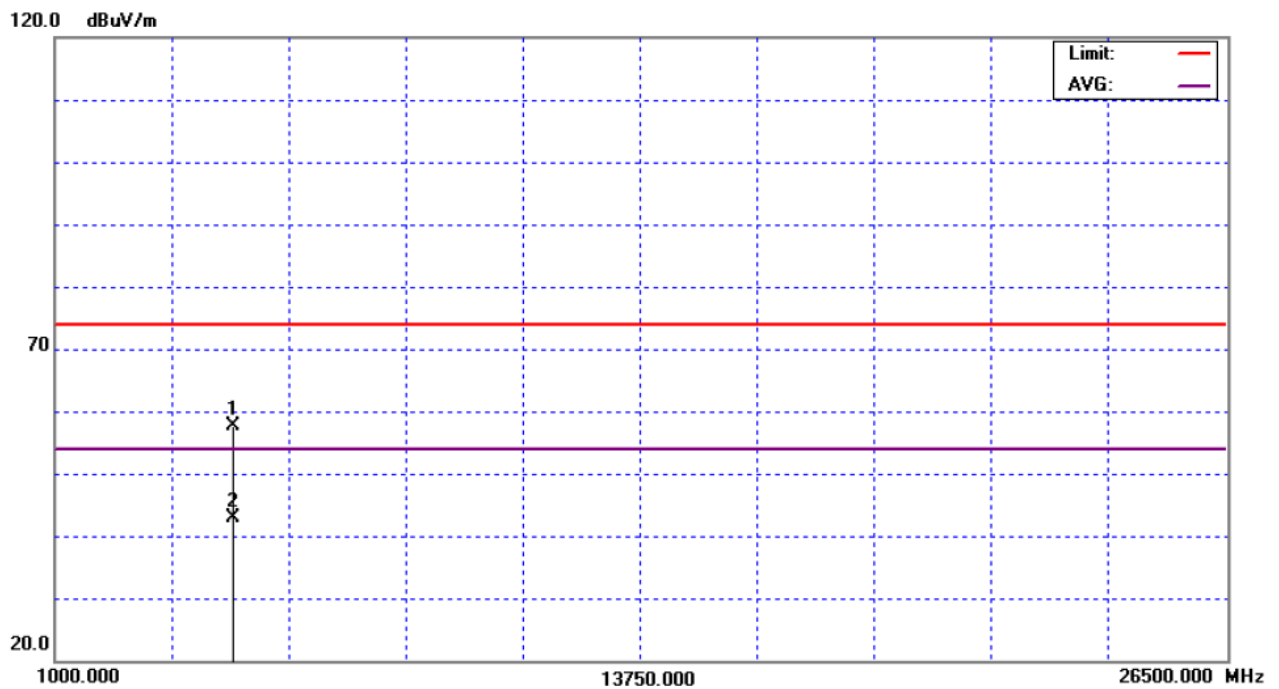
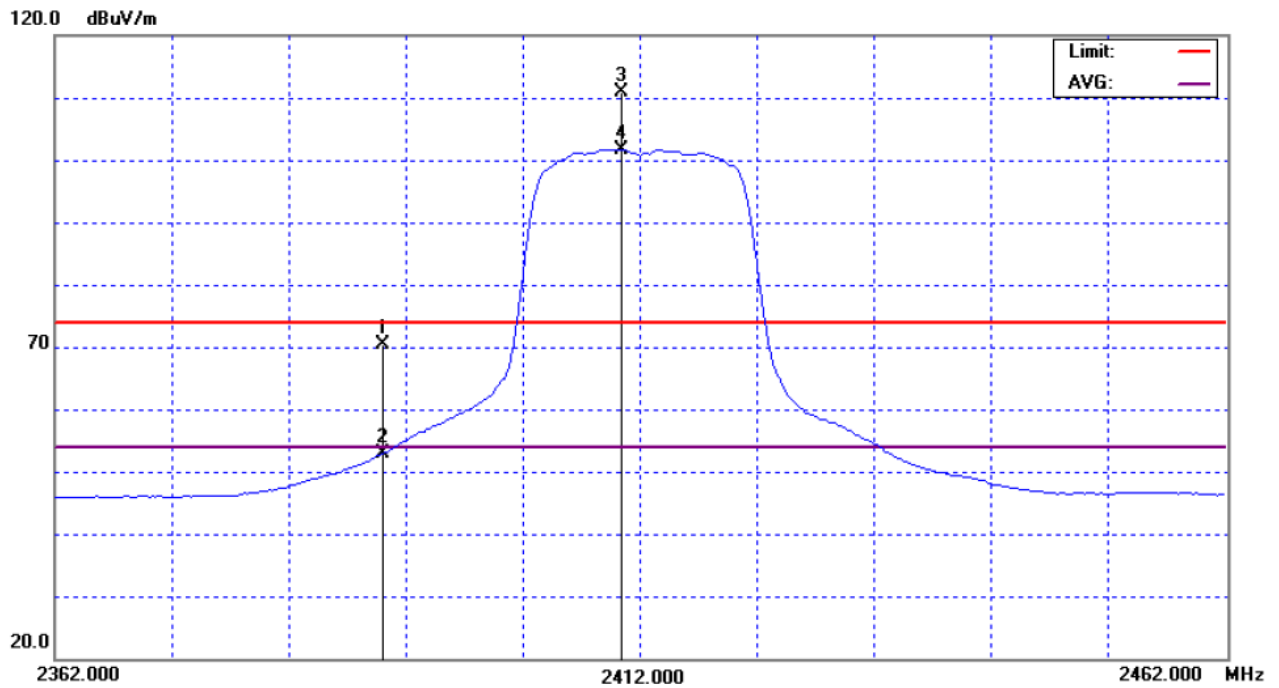
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	H	37.93	20.33	32.57	70.50	52.90	74.00	54.00	X/H
2410.40	H	78.31	69.03	32.69	111.00	101.72			X/F
4826.60	H	53.55	38.81	4.06	57.61	42.87	74.00	54.00	X/H

Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ◦
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency ◦ "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.



Orthogonal Axis : X
802.11n/20M/CH01 (DIPOLE)(Above 1000 MHz, Horizontal)





EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	16 °C	Relative Humidity :	57%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/20M/CH06 (DIPOLE)		

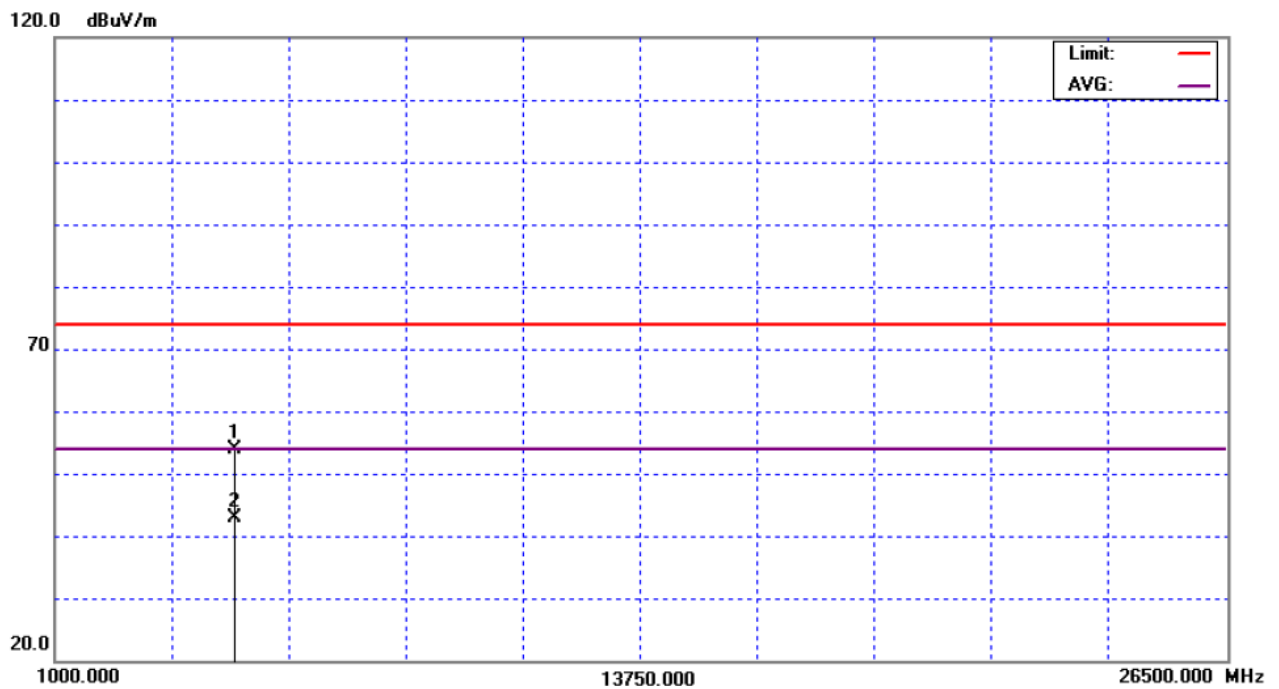
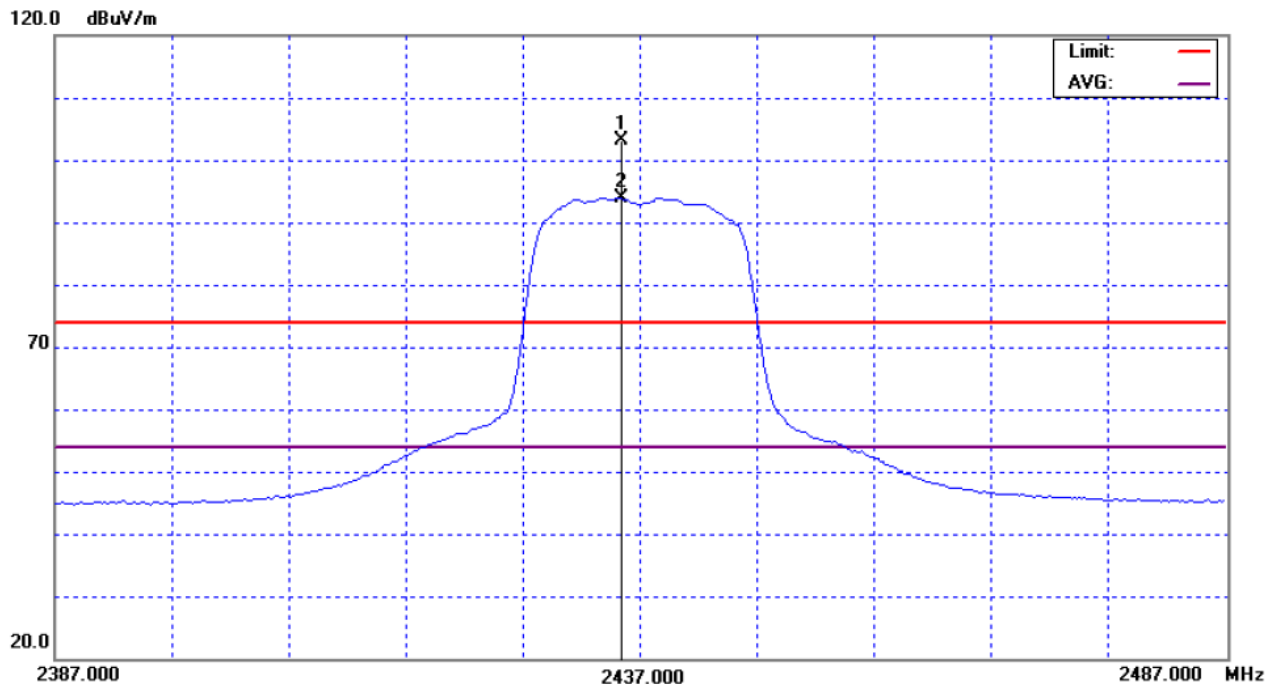
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2435.40	V	70.24	61.02	32.83	103.07	93.85			X/F
4876.60	V	49.51	38.46	4.30	53.81	42.76	74.00	54.00	X/H

Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ◦
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency ◦ “F” denotes fundamental frequency; “H” denotes spurious frequency. “E” denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (5) Data of measurement within this frequency range shown “ * ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :
“X” - denotes Laid on Table ; ”Y” - denotes Vertical Stand ; ”Z” - denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.



Orthogonal Axis : X
802.11n/20M/CH06 (DIPOLE)(Above 1000 MHz, Vertical)





EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	16 °C	Relative Humidity :	57%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/20M/CH06 (DIPOLE)		

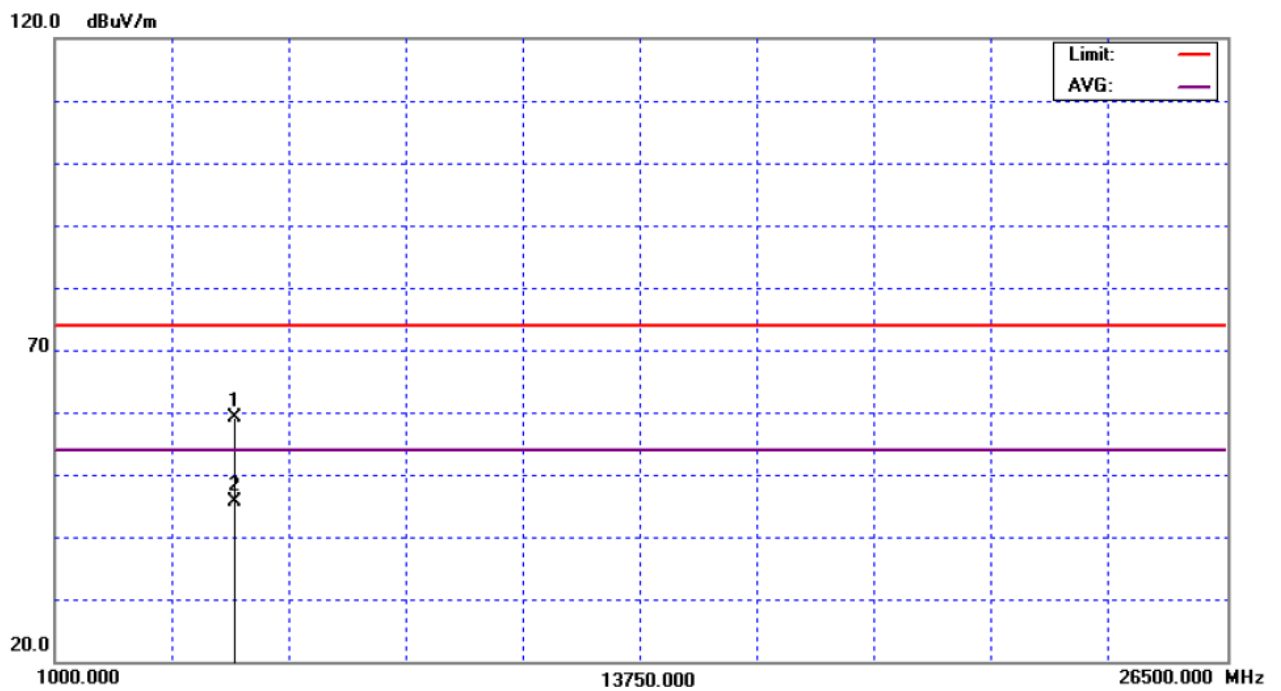
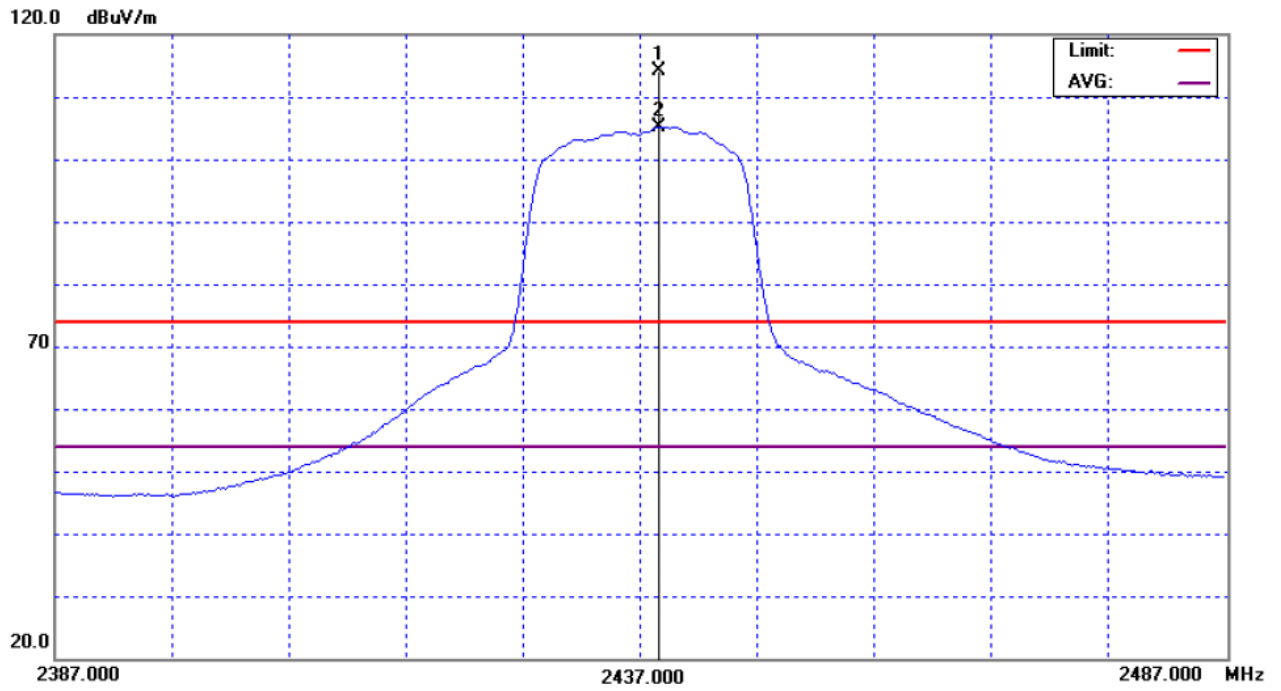
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2438.60	H	81.29	72.30	32.85	114.14	105.15			X/F
4877.60	H	54.78	41.31	4.31	59.09	45.62	74.00	54.00	X/H

Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ◦
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency ◦ “F” denotes fundamental frequency; “H” denotes spurious frequency. “E” denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (5) Data of measurement within this frequency range shown “ * ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :
“X” - denotes Laid on Table ; “Y” - denotes Vertical Stand ; “Z” - denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.



Orthogonal Axis : X
802.11n/20M/CH06 (DIPOLE)(Above 1000 MHz, Horizontal)





EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	16 °C	Relative Humidity :	57%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/20M/CH11 (DIPOLE)		

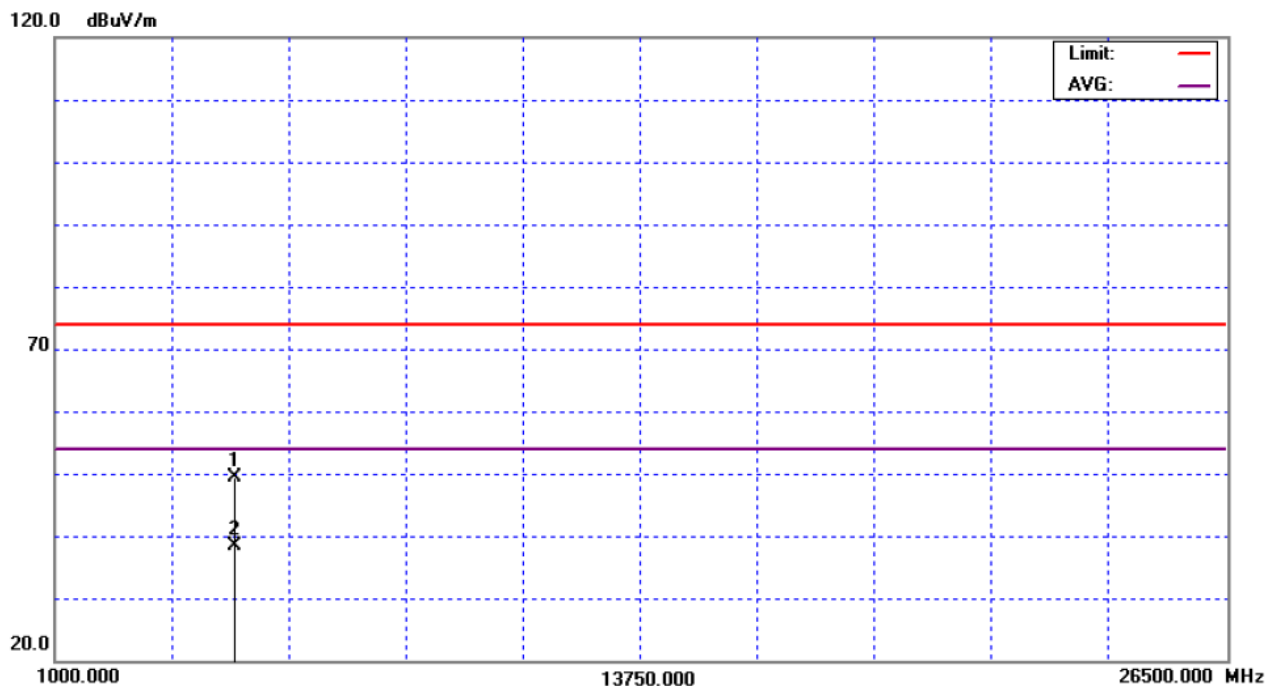
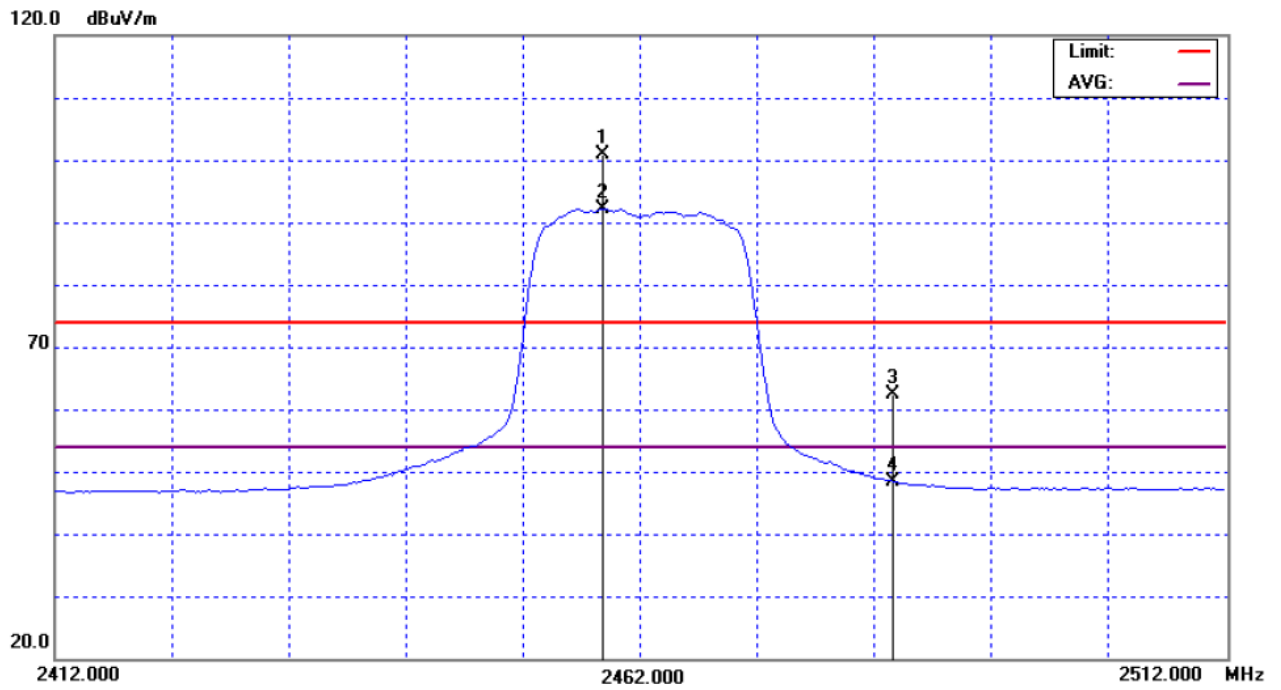
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2458.80	V	67.99	59.24	32.96	100.95	92.20			X/F
2483.50	V	29.34	15.23	33.10	62.44	48.33	74.00	54.00	X/H
4924.40	V	44.85	33.95	4.54	49.39	38.49	74.00	54.00	X/H

Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ◦
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency ◦ “F” denotes fundamental frequency; “H” denotes spurious frequency. “E” denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (5) Data of measurement within this frequency range shown “ * ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :
“X” - denotes Laid on Table ; ”Y” - denotes Vertical Stand ; ”Z” - denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.



Orthogonal Axis : X
802.11n/20M/CH11 (DIPOLE)(Above 1000 MHz, Vertical)





EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	16 °C	Relative Humidity :	57%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/20M/CH11 (DIPOLE)		

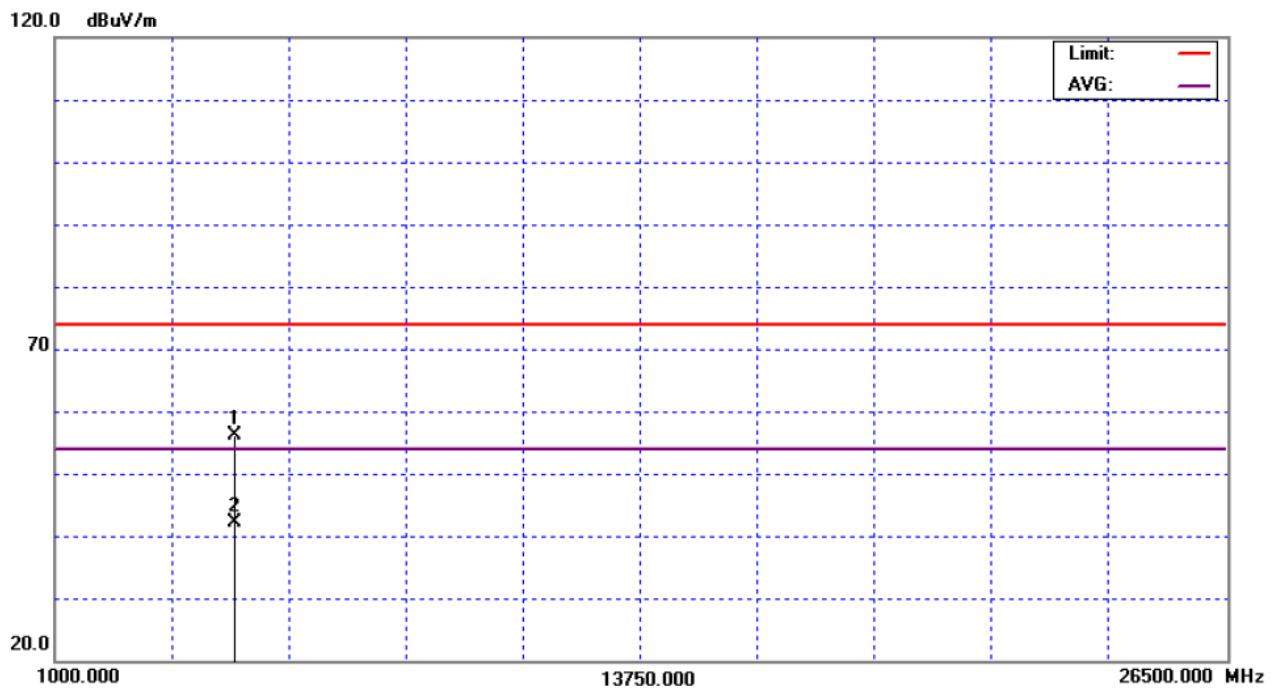
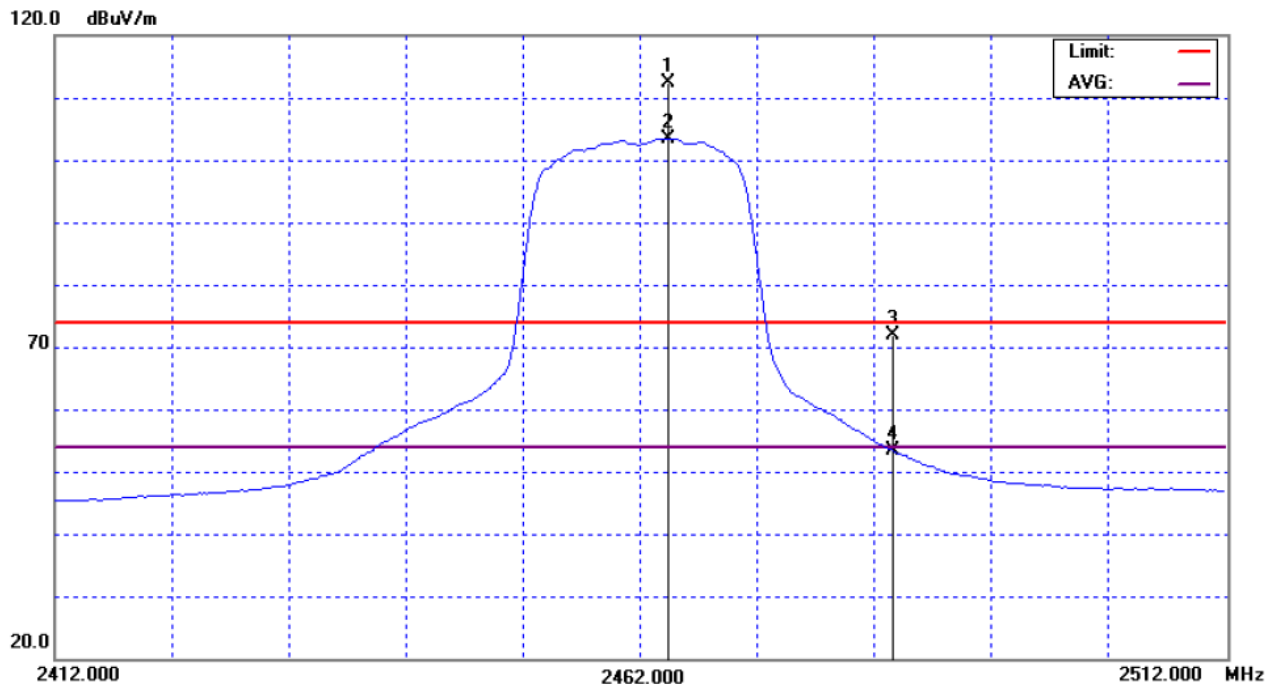
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2464.40	H	79.35	70.46	32.99	112.34	103.45			X/F
2483.50	H	38.79	20.25	33.10	71.89	53.35	74.00	54.00	X/H
4924.20	H	51.47	37.54	4.54	56.01	42.08	74.00	54.00	X/H

Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ◦
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency ◦ "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.



Orthogonal Axis : X
802.11n/20M/CH11 (DIPOLE)(Above 1000 MHz, Horizontal)





EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	21 °C	Relative Humidity :	57%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/40M/CH03 (DIPOLE)		

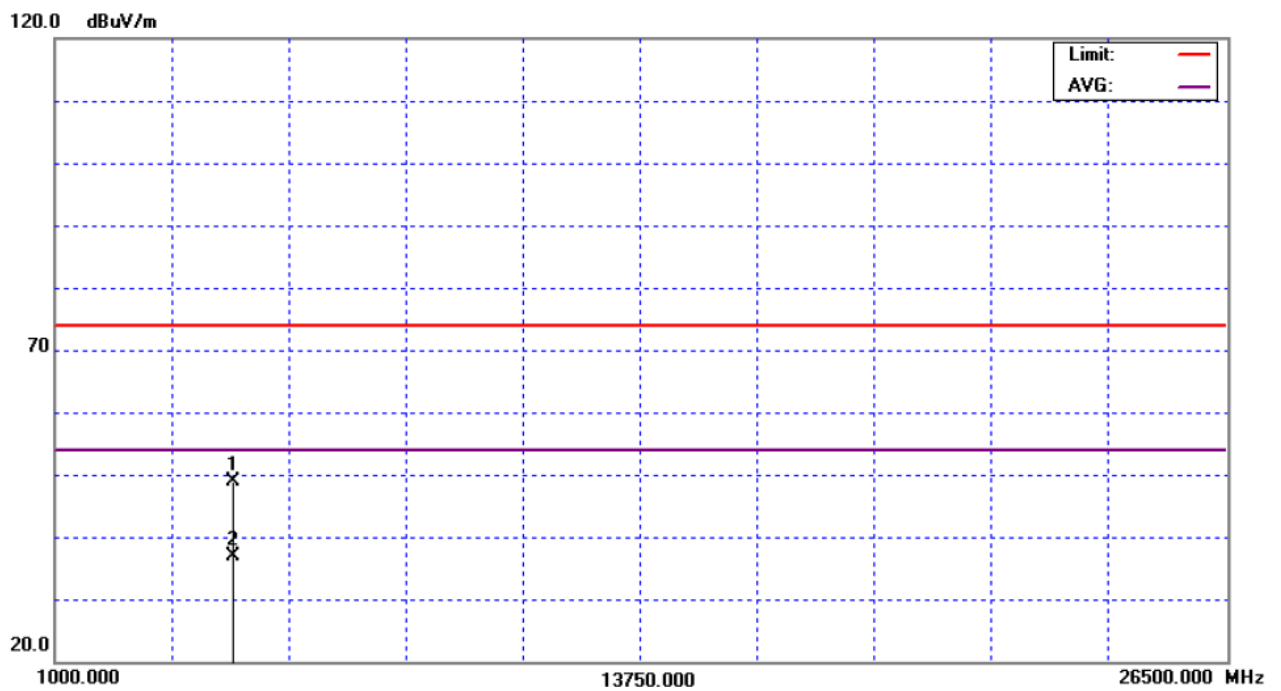
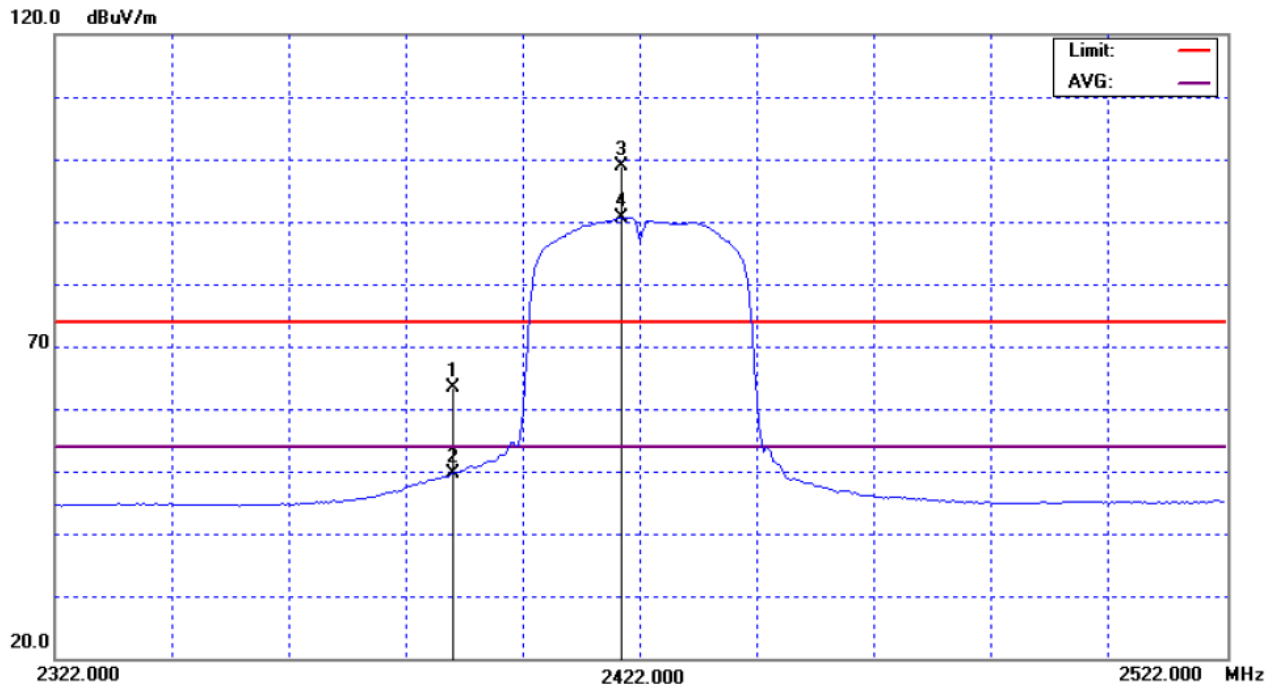
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	V	30.85	17.07	32.57	63.42	49.64	74.00	54.00	X/H
2418.80	V	66.07	57.88	32.74	98.81	90.62			X/F
4844.10	V	44.77	32.79	4.14	48.91	36.93	74.00	54.00	X/H

Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ◦
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency ◦“F” denotes fundamental frequency; “H” denotes spurious frequency. “E” denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (5) Data of measurement within this frequency range shown “ * ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :
“X” - denotes Laid on Table ; ”Y” - denotes Vertical Stand ; ”Z” - denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.



Orthogonal Axis : X
802.11n/40M/CH03 (DIPOLE)(Above 1000 MHz, Vertical)





EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	21 °C	Relative Humidity :	57%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/40M/CH03 (DIPOLE)		

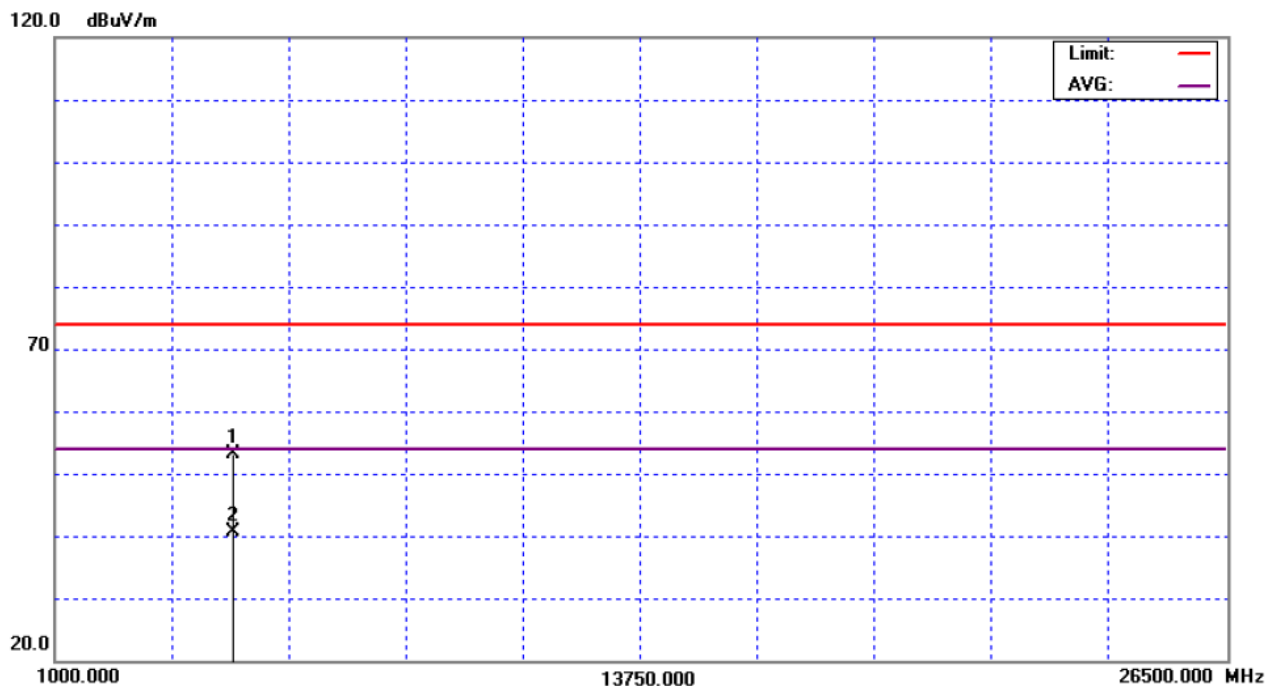
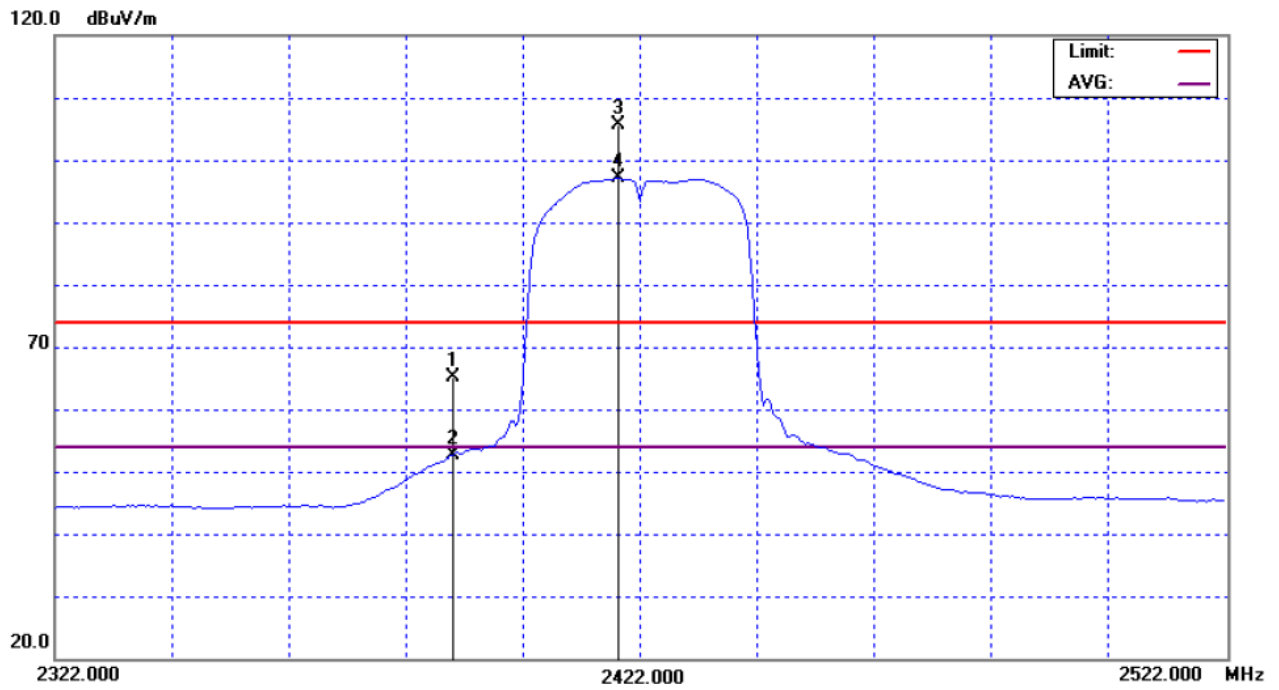
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	H	32.68	19.94	32.57	65.25	52.51	74.00	54.00	X/H
2418.40	H	72.98	64.33	32.73	105.71	97.06			X/F
4843.90	H	49.02	36.38	4.14	53.16	40.52	74.00	54.00	X/H

Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ◦
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency ◦ "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.



Orthogonal Axis : X
802.11n/40M/CH03 (DIPOLE)(Above 1000 MHz, Horizontal)





EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	21 °C	Relative Humidity :	57%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/40M/CH06 (DIPOLE)		

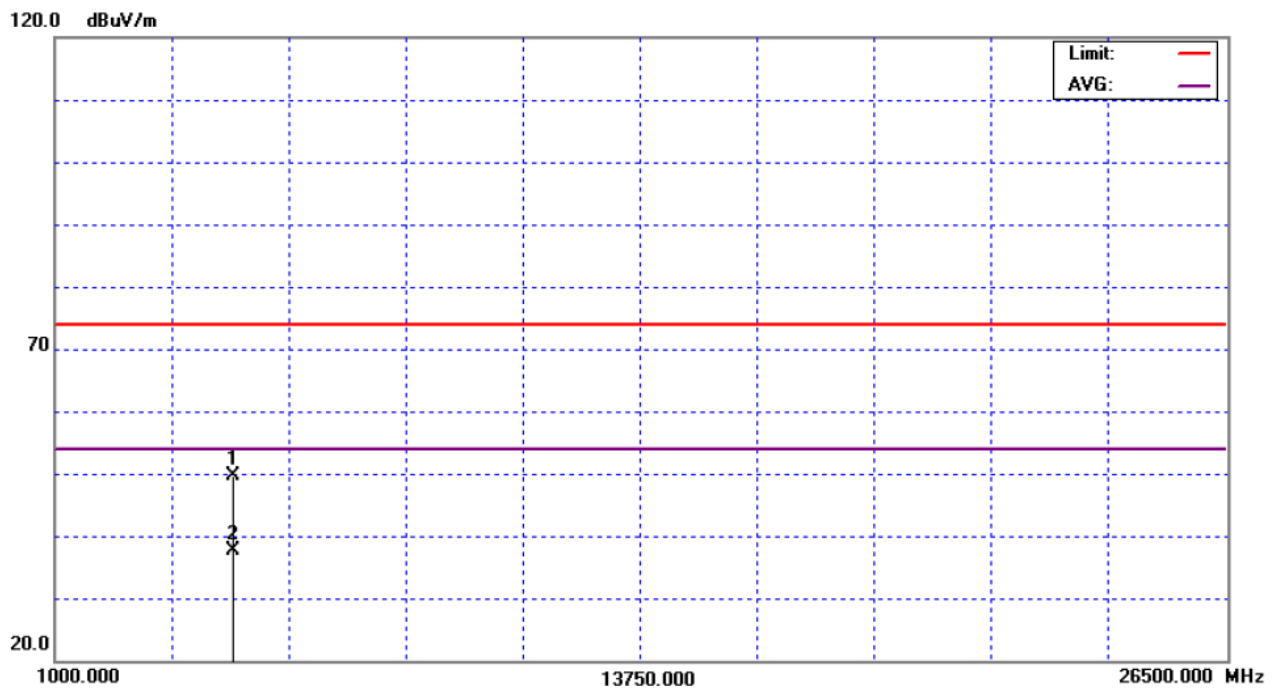
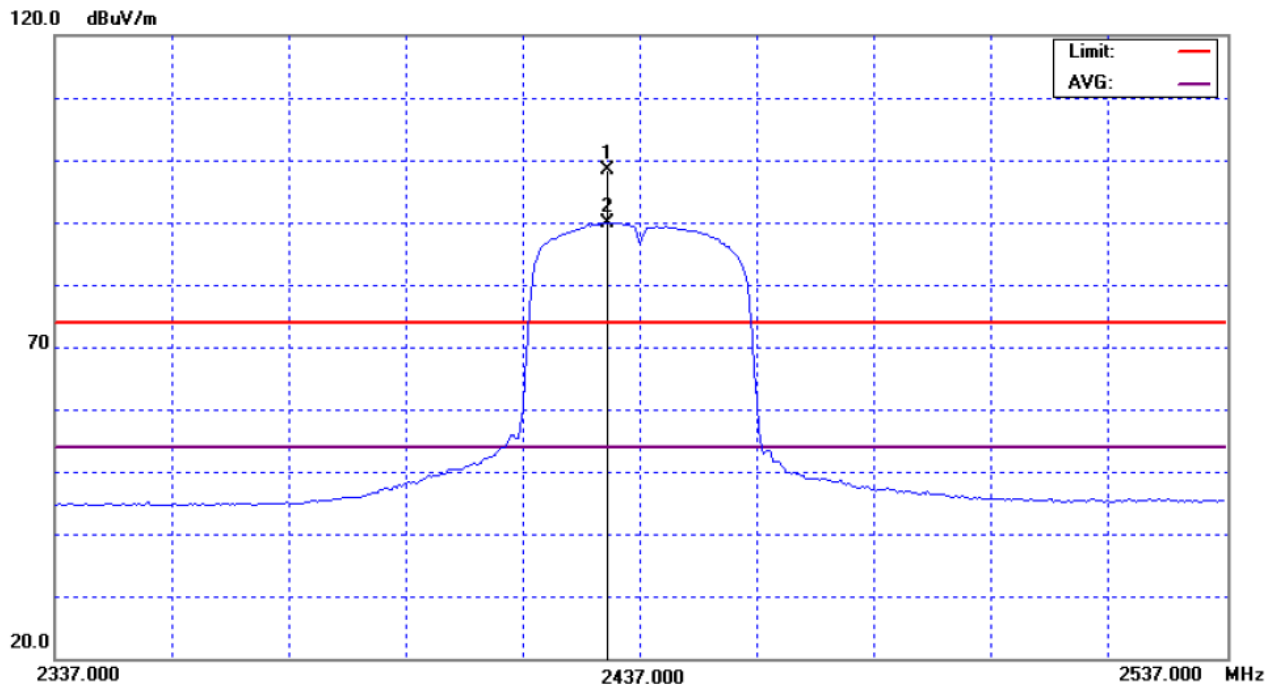
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2431.40	V	65.47	57.16	32.81	98.28	89.97			X/F
4873.60	V	45.29	33.40	4.29	49.58	37.69	74.00	54.00	X/H

Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ◦
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency ◦ “F” denotes fundamental frequency; “H” denotes spurious frequency. “E” denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (5) Data of measurement within this frequency range shown “ * ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :
“X” - denotes Laid on Table ; ”Y” - denotes Vertical Stand ; ”Z” - denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.



Orthogonal Axis : X
802.11n/40M/CH06 (DIPOLE)(Above 1000 MHz, Vertical)





EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	21 °C	Relative Humidity :	57%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/40M/CH06 (DIPOLE)		

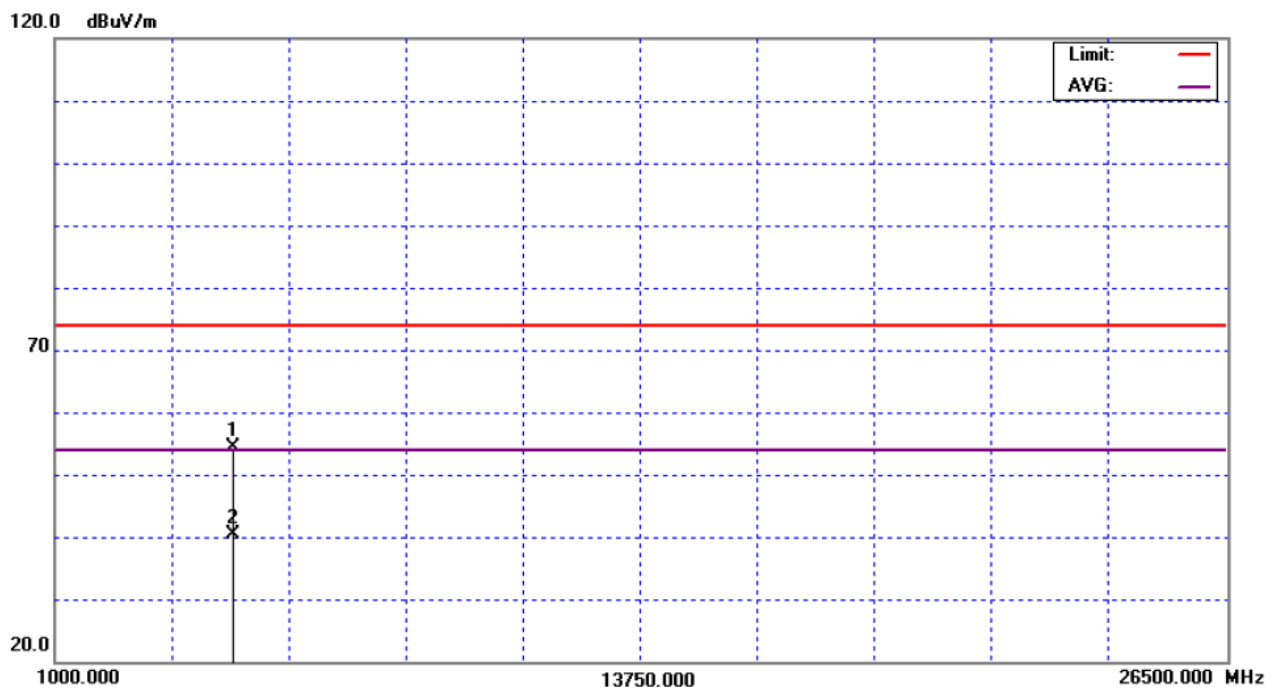
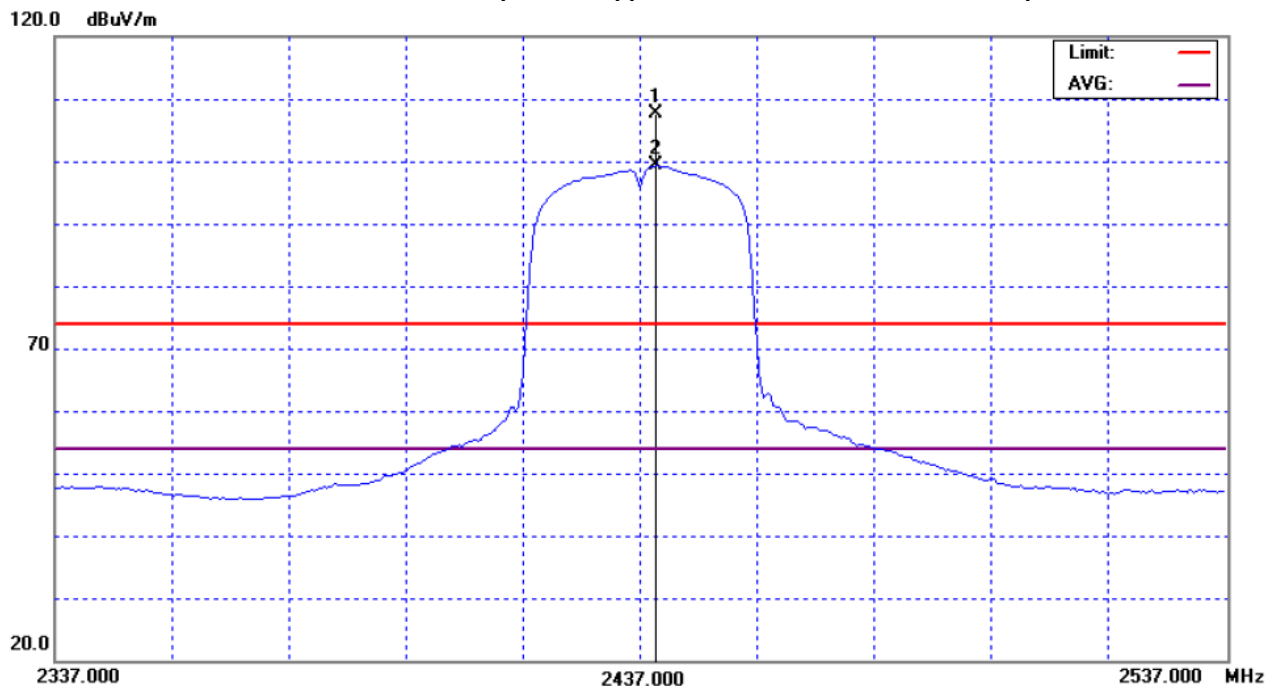
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2439.80	H	74.81	66.44	32.85	107.66	99.29			X/F
4866.00	H	50.13	36.20	4.25	54.38	40.45	74.00	54.00	X/H

Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ◦
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency ◦ “F” denotes fundamental frequency; “H” denotes spurious frequency. “E” denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (5) Data of measurement within this frequency range shown “ * ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :
“X” - denotes Laid on Table ; “Y” - denotes Vertical Stand ; “Z” - denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.



Orthogonal Axis : X
802.11n/40M/CH06 (DIPOLE)(Above 1000 MHz, Horizontal)





EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	21 °C	Relative Humidity :	57%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/40M/CH09 (DIPOLE)		

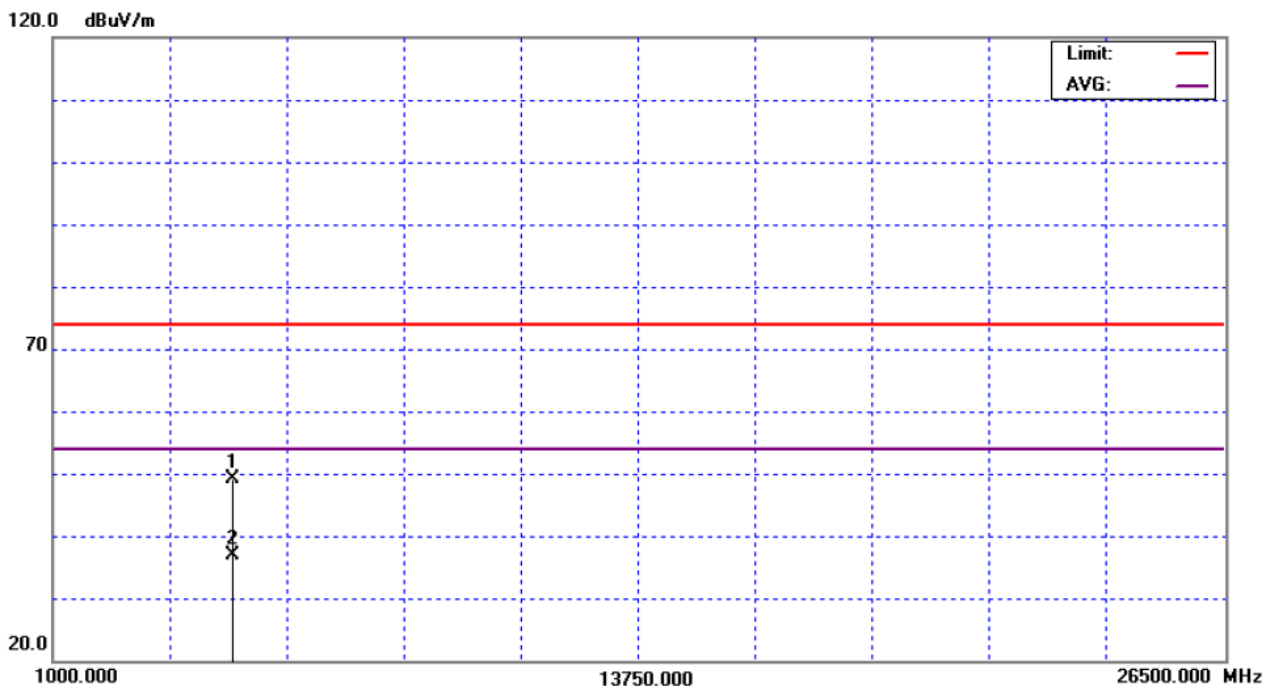
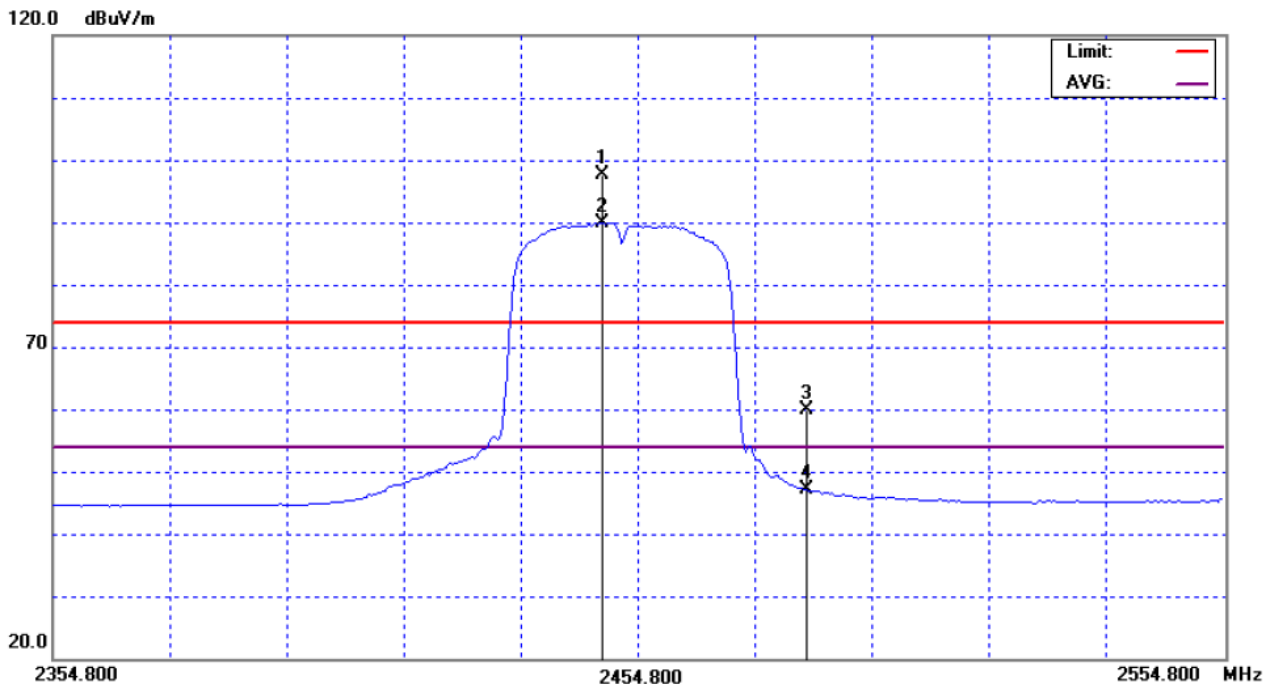
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2448.80	V	64.83	57.05	32.90	97.73	89.95			X/F
2483.50	V	26.67	14.11	33.10	59.77	47.21	74.00	54.00	X/H
4901.60	V	44.59	32.45	4.43	49.02	36.88	74.00	54.00	X/H

Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ◦
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency ◦ “F” denotes fundamental frequency; “H” denotes spurious frequency. “E” denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (5) Data of measurement within this frequency range shown “ * ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :
“X” - denotes Laid on Table ; ”Y” - denotes Vertical Stand ; ”Z” - denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.



Orthogonal Axis : X
802.11n/40M/CH09 (DIPOLE)(Above 1000 MHz, Vertical)





EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	21 °C	Relative Humidity :	57%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/40M/CH09 (DIPOLE)		

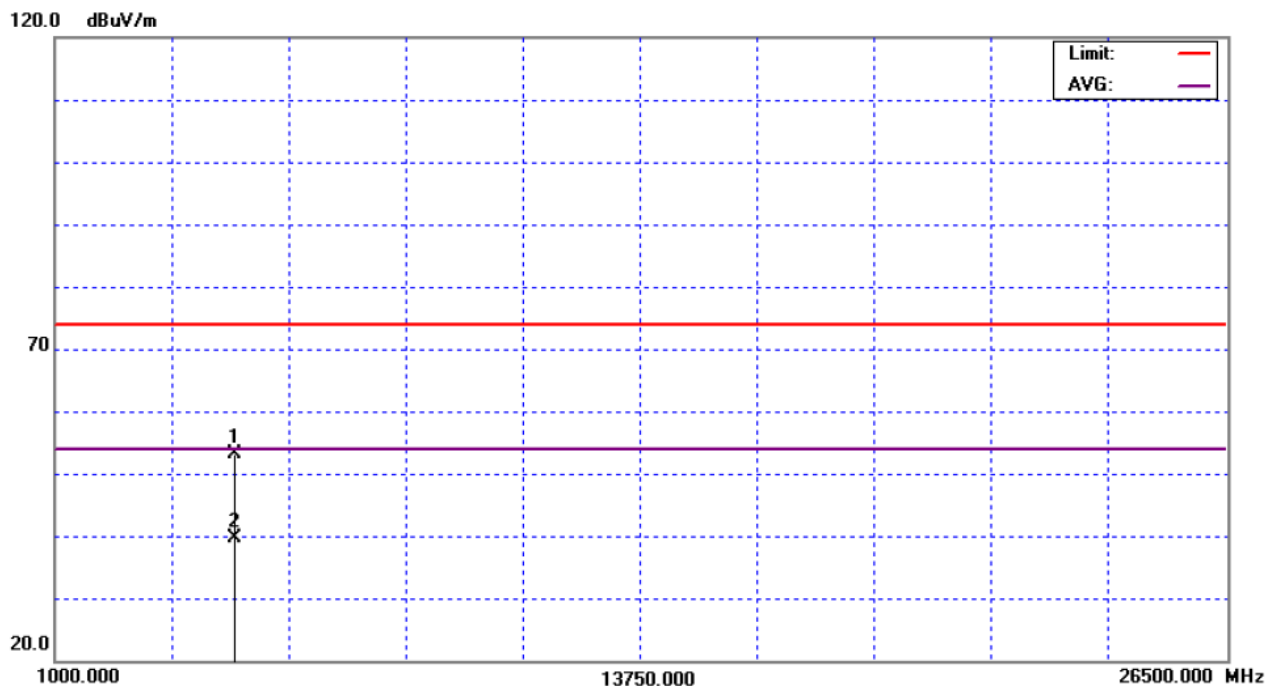
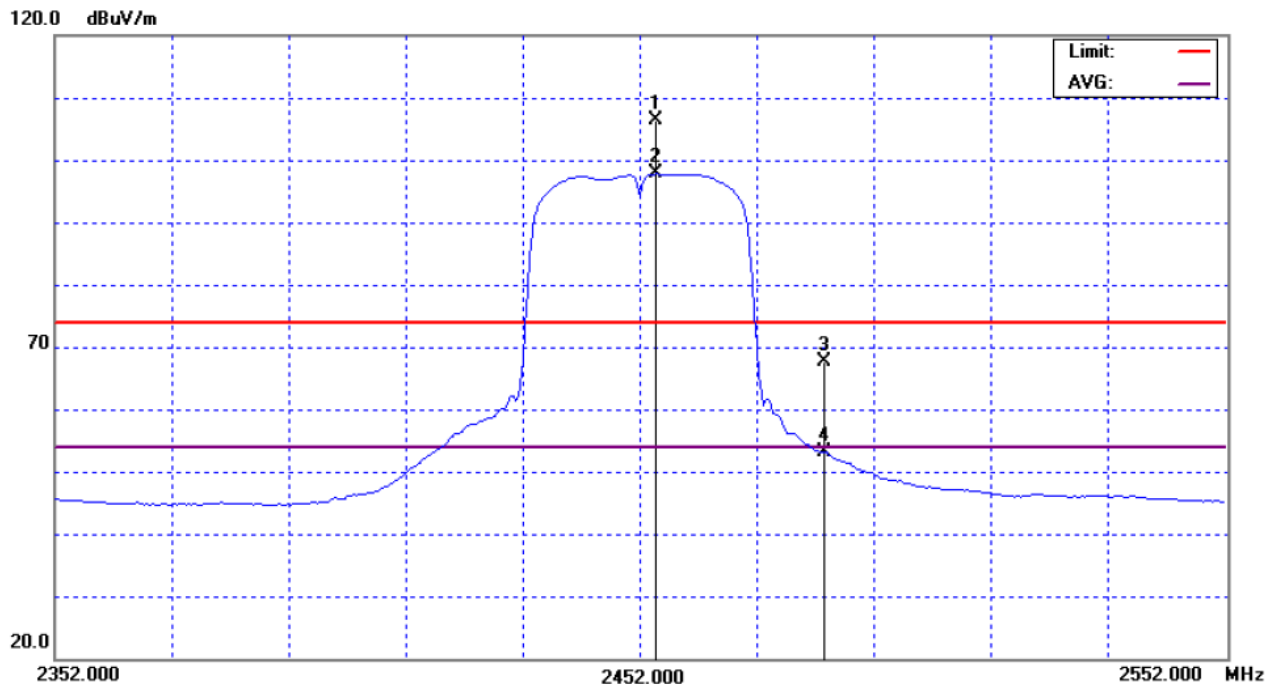
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2545.80	H	73.47	64.88	32.94	106.41	97.82			X/F
2483.50	H	34.47	19.97	33.10	67.57	53.07	74.00	54.00	X/H
4900.80	H	48.67	35.13	4.42	53.09	39.55	74.00	54.00	X/H

Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ◦
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency ◦ "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.



Orthogonal Axis : X
802.11n/40M/CH09 (DIPOLE)(Above 1000 MHz, Horizontal)





4.2.11 TEST RESULTS-RESTRICTED BANDS REQUIREMENTS - CHIP

EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	14 °C	Relative Humidity :	57%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b (CHIP) (Vertical)		
Note :	<p>The emission of the carrier radiated field strength is measured for CH01/CH11 (Peak and AV) as following:</p> <ol style="list-style-type: none"> 1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH01). Then the field strength was measured at 2310-2390 MHz. 2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH11). Then the field strength was measured at 2483.5-2500 MHz. 		

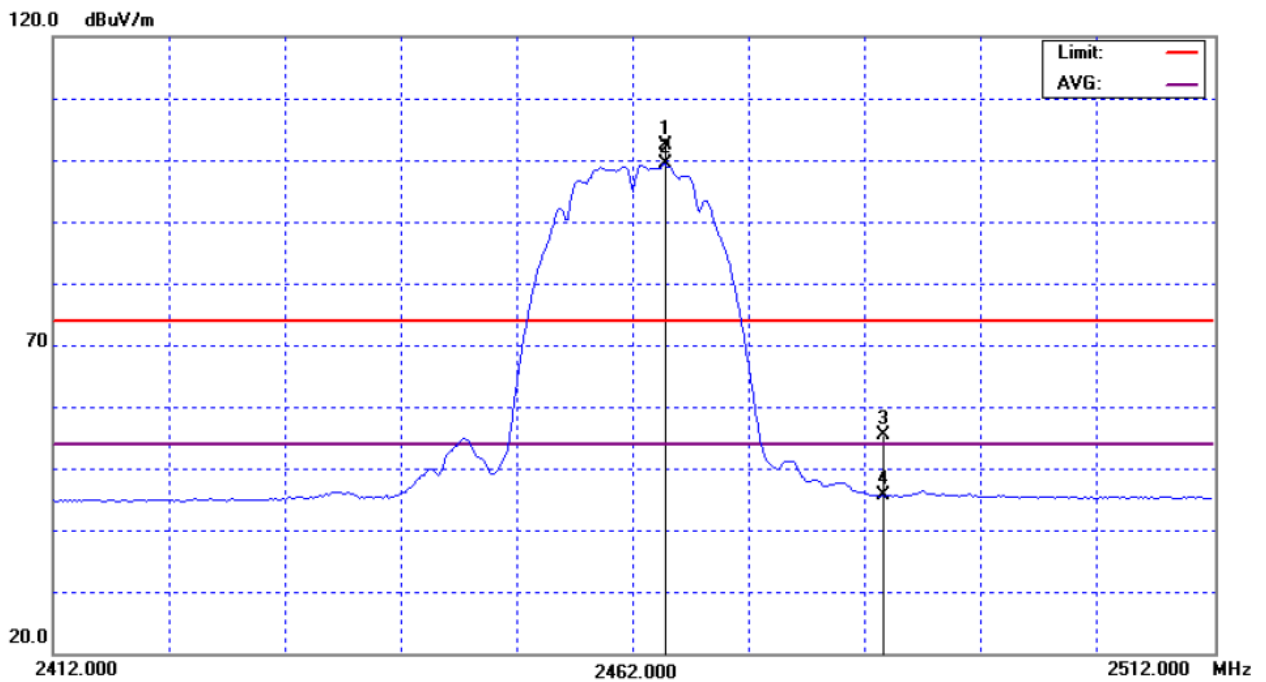
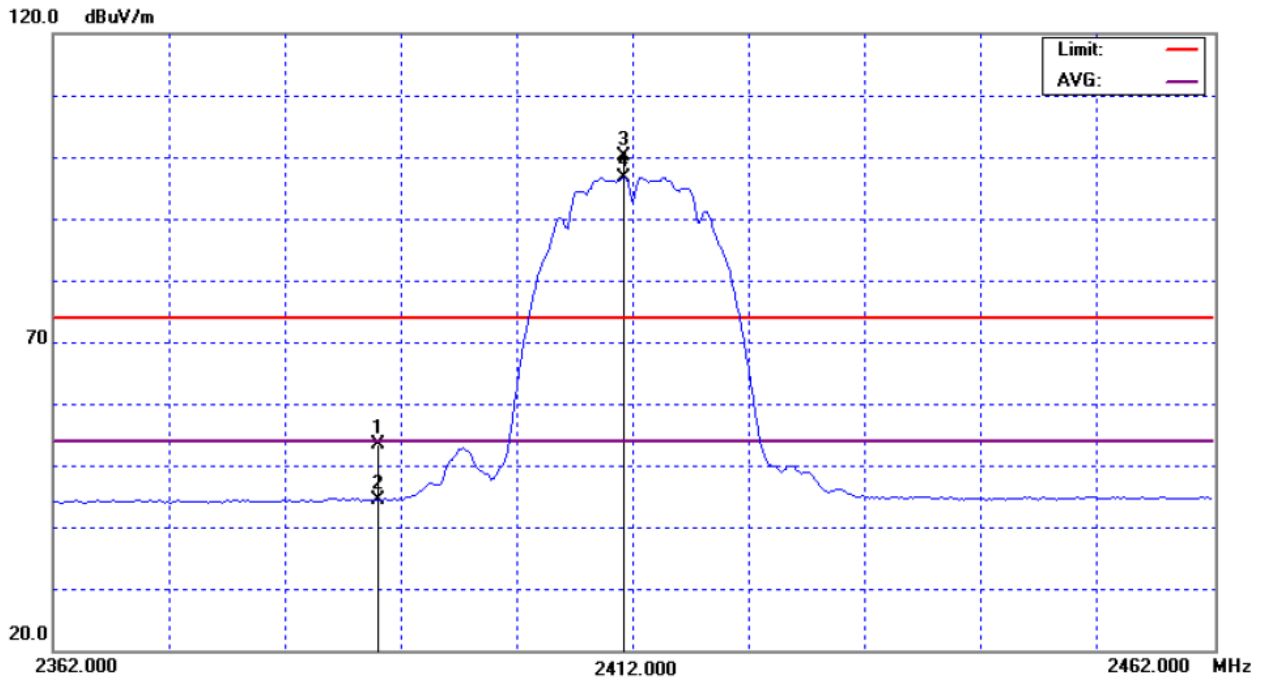
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	V	20.80	11.81	32.57	53.37	44.38	74.00	54.00	X
2483.50	V	22.26	12.53	33.10	55.36	45.63	74.00	54.00	X

Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (3) EUT Orthogonal Axes :
 "X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand



802.11b (CHIP) (Restricted Bands Requirements, Vertical)





EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	14 °C	Relative Humidity :	57%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b (CHIP) (Horizontal)		
Note :	<p>The emission of the carrier radiated field strength is measured for CH01/CH11 (Peak and AV) as following:</p> <ol style="list-style-type: none"> 1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH01). Then the field strength was measured at 2310-2390 MHz. 2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH11). Then the field strength was measured at 2483.5-2500 MHz. 		

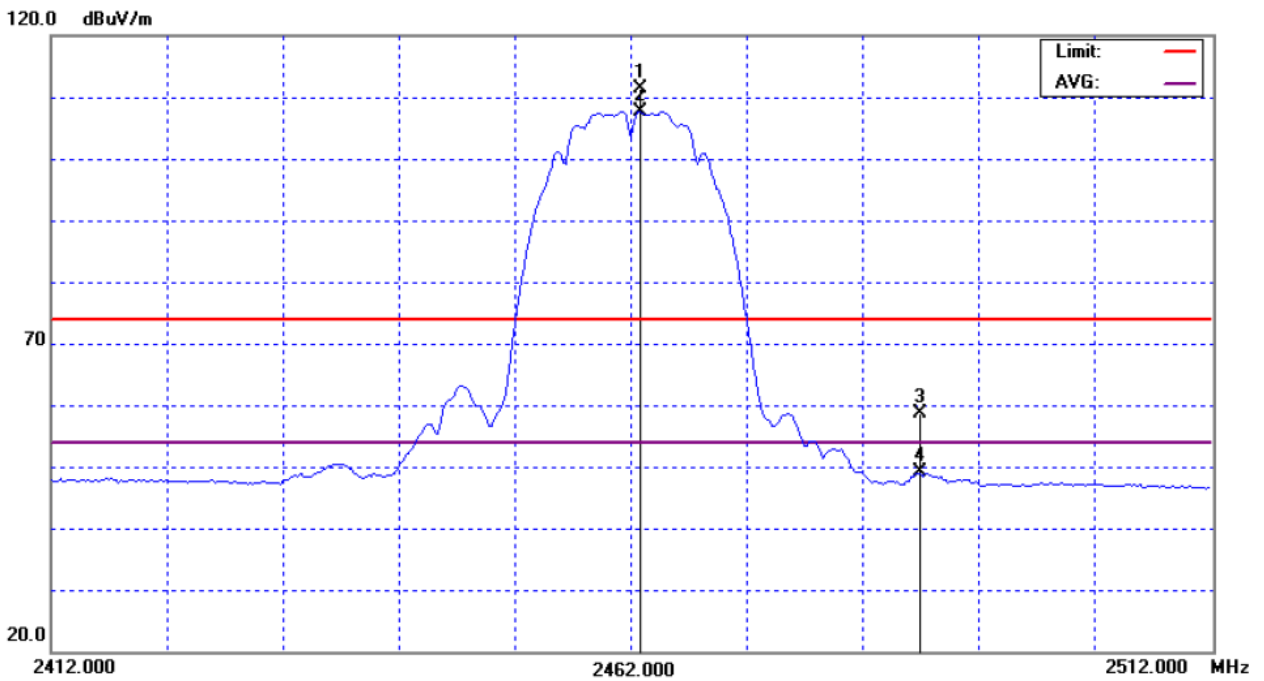
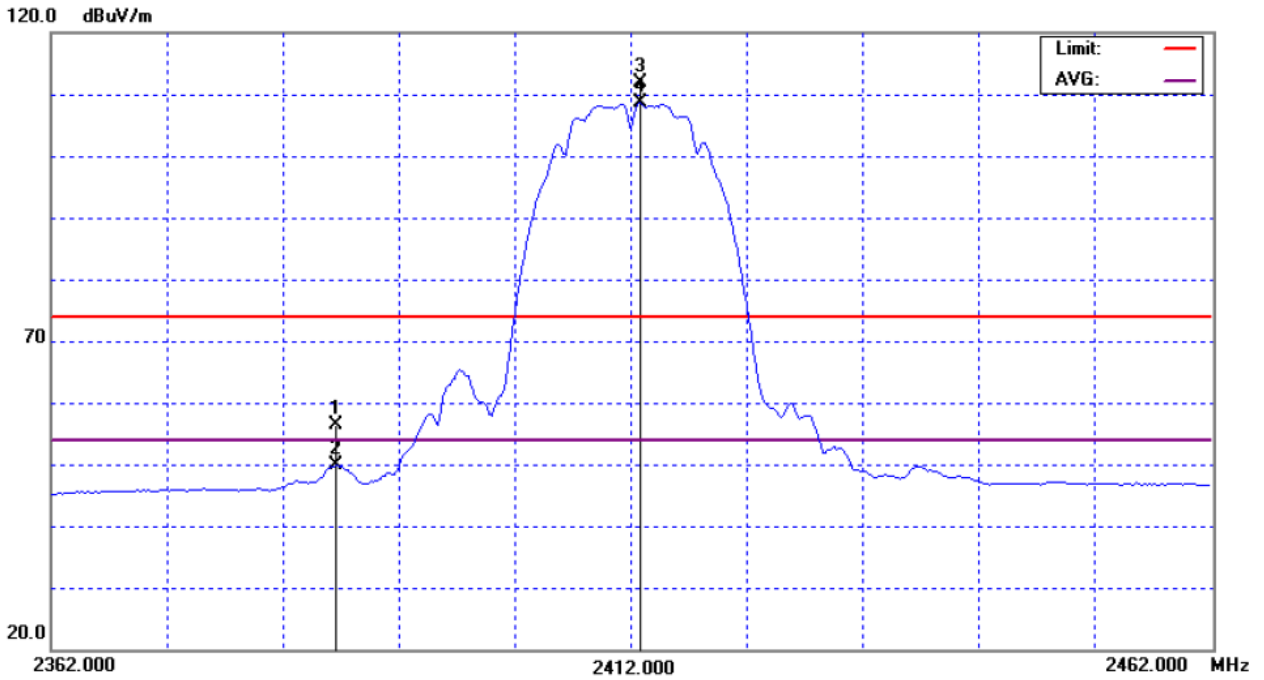
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2386.60	H	23.79	17.25	32.55	56.34	49.80	74.00	54.00	X
2486.90	H	25.57	15.95	33.12	58.69	49.07	74.00	54.00	X

Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (3) EUT Orthogonal Axes :
 "X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand



802.11b (CHIP) (Restricted Bands Requirements, Horizontal)





EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	14 °C	Relative Humidity :	57%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11g (CHIP) (Vertical)		
Note :	<p>The emission of the carrier radiated field strength is measured for CH01/CH11 (Peak and AV) as following:</p> <ol style="list-style-type: none"> 1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH01). Then the field strength was measured at 2310-2390 MHz. 2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH11). Then the field strength was measured at 2483.5-2500 MHz. 		

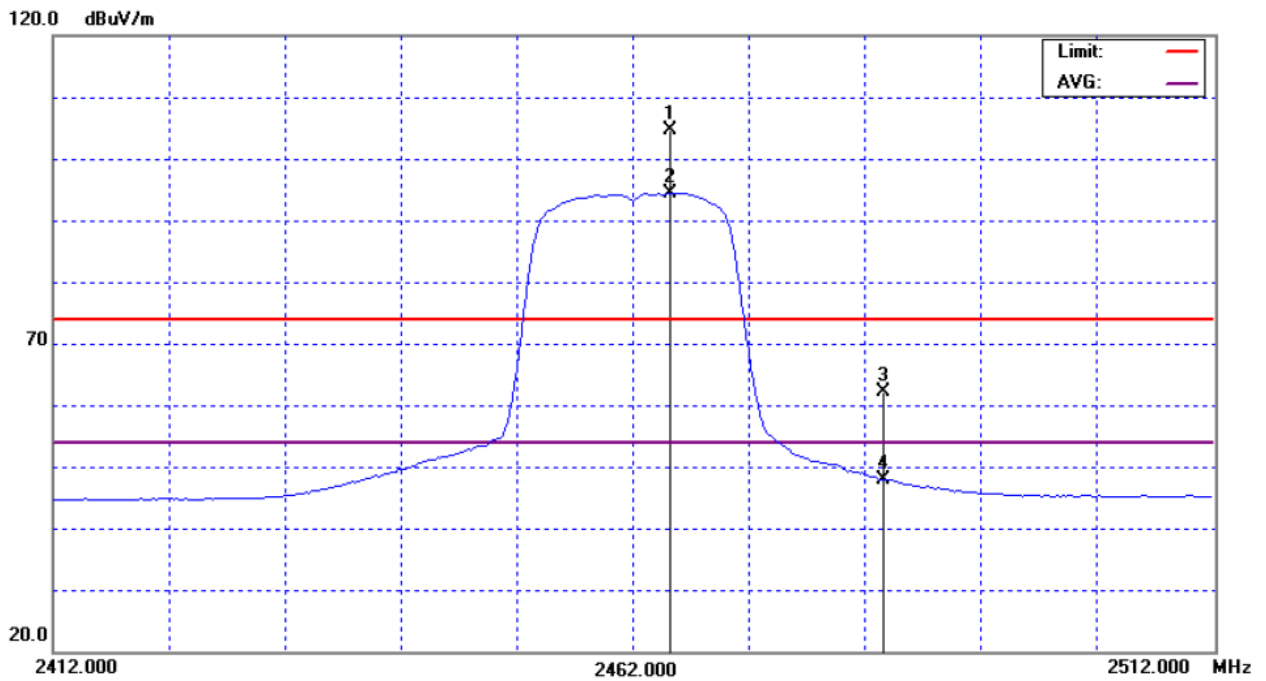
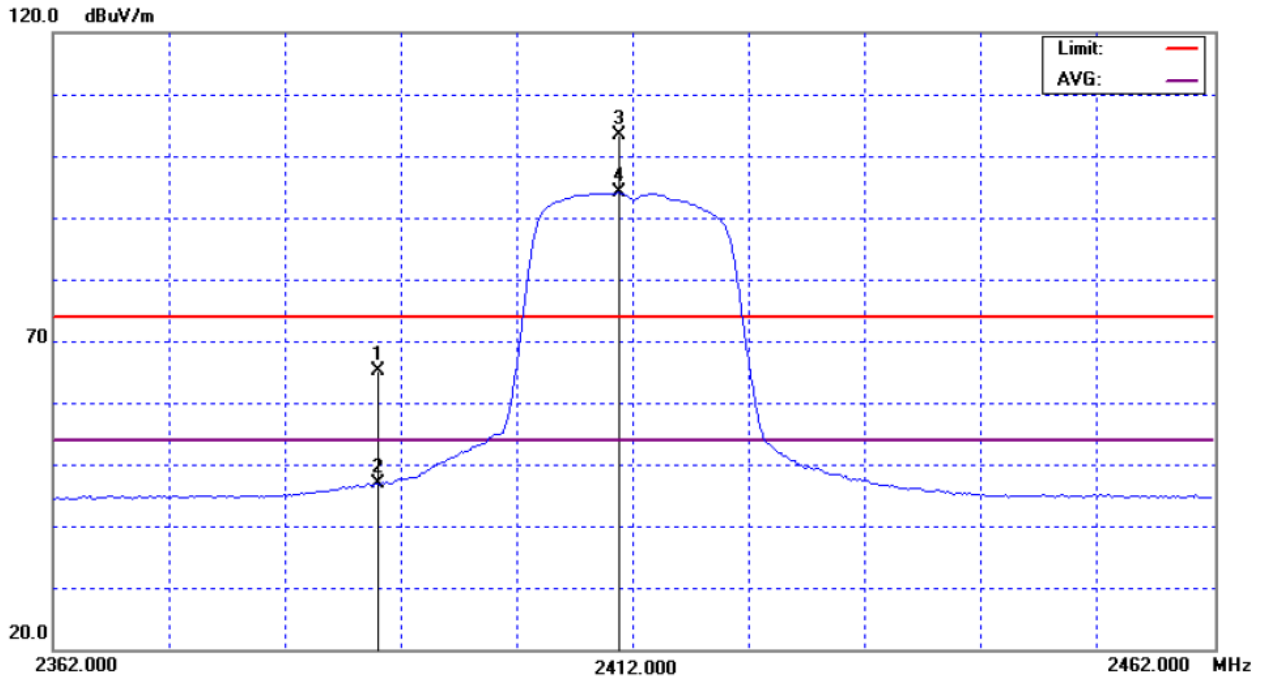
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	V	32.52	14.20	32.57	65.09	46.77	74.00	54.00	X
2483.50	V	28.93	14.89	33.10	62.03	47.99	74.00	54.00	X

Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (3) EUT Orthogonal Axes :
 "X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand



802.11g (CHIP) (Restricted Bands Requirements, Vertical)





EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	14 °C	Relative Humidity :	57%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11g (CHIP) (Horizontal)		
Note :	<p>The emission of the carrier radiated field strength is measured for CH01/CH11 (Peak and AV) as following:</p> <ol style="list-style-type: none"> 1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH01). Then the field strength was measured at 2310-2390 MHz. 2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH11). Then the field strength was measured at 2483.5-2500 MHz. 		

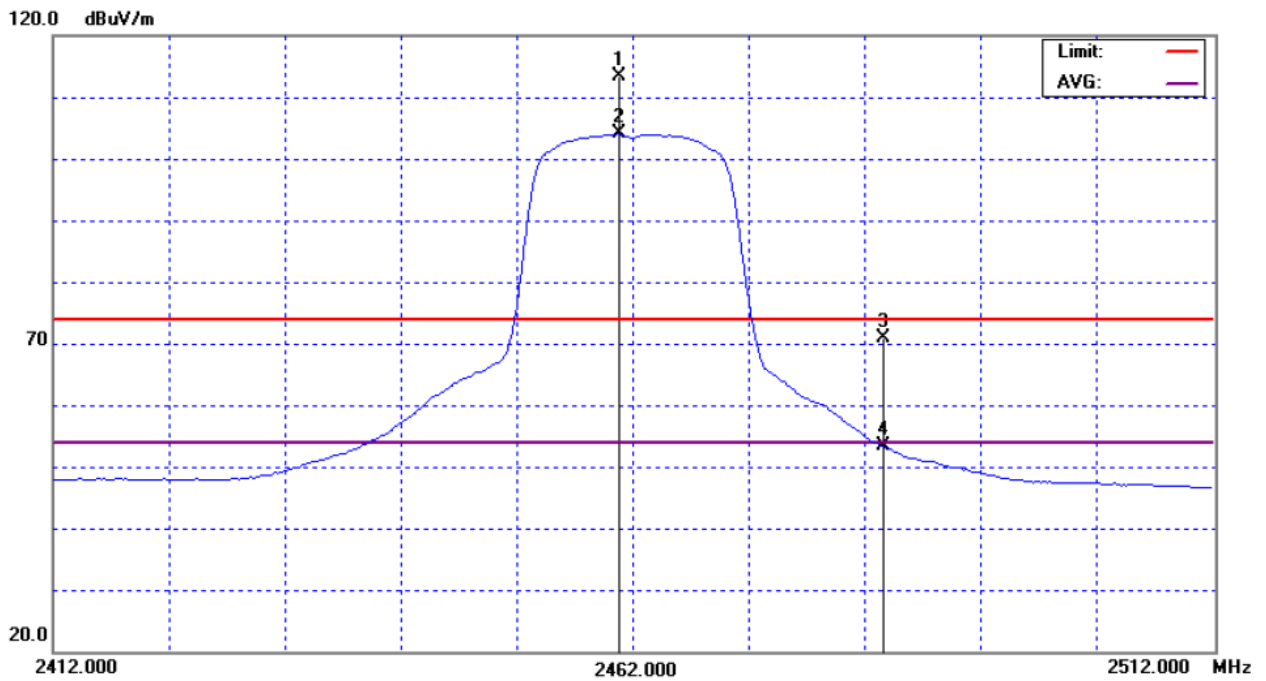
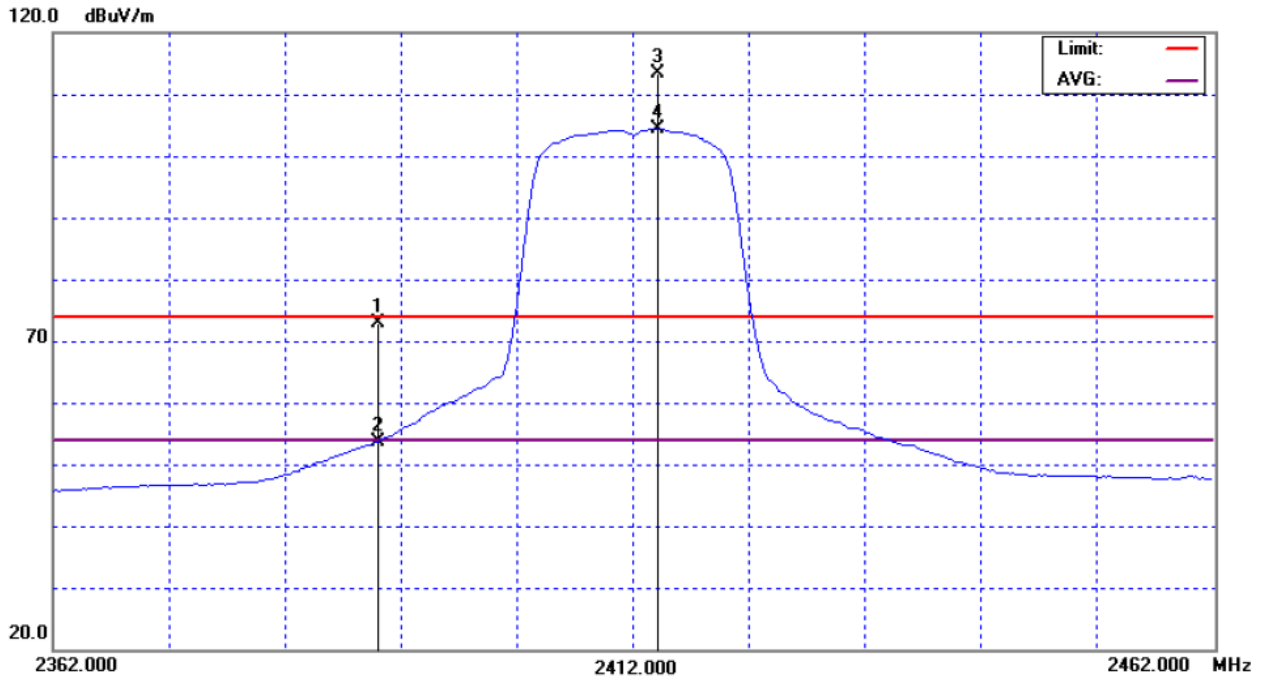
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	H	40.24	21.10	32.57	72.81	53.67	74.00	54.00	X
2483.50	H	37.78	20.21	33.10	70.88	53.31	74.00	54.00	X

Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (3) EUT Orthogonal Axes :
 "X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand



802.11g (CHIP) (Restricted Bands Requirements, Horizontal)





EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	14 °C	Relative Humidity :	57%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/20M (CHIP) (Vertical)		
Note :	<p>The emission of the carrier radiated field strength is measured for CH01/CH11 (Peak and AV) as following:</p> <ol style="list-style-type: none"> 1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH01). Then the field strength was measured at 2310-2390 MHz. 2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH11). Then the field strength was measured at 2483.5-2500 MHz. 		

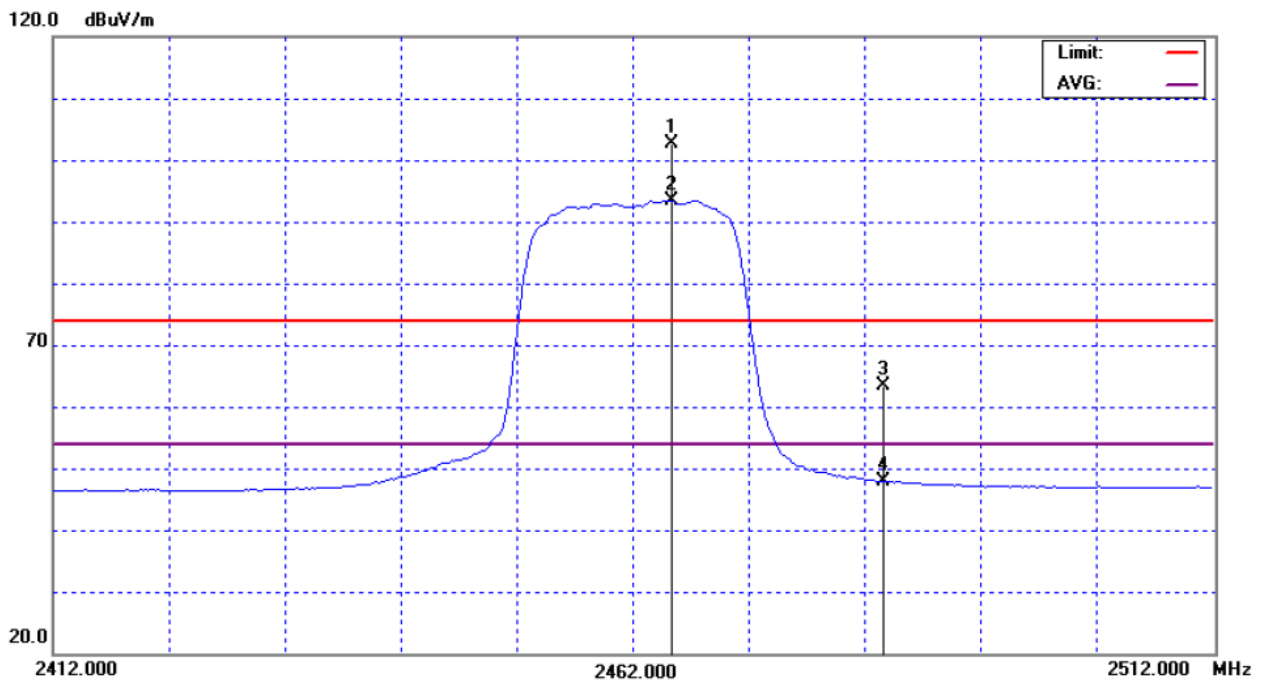
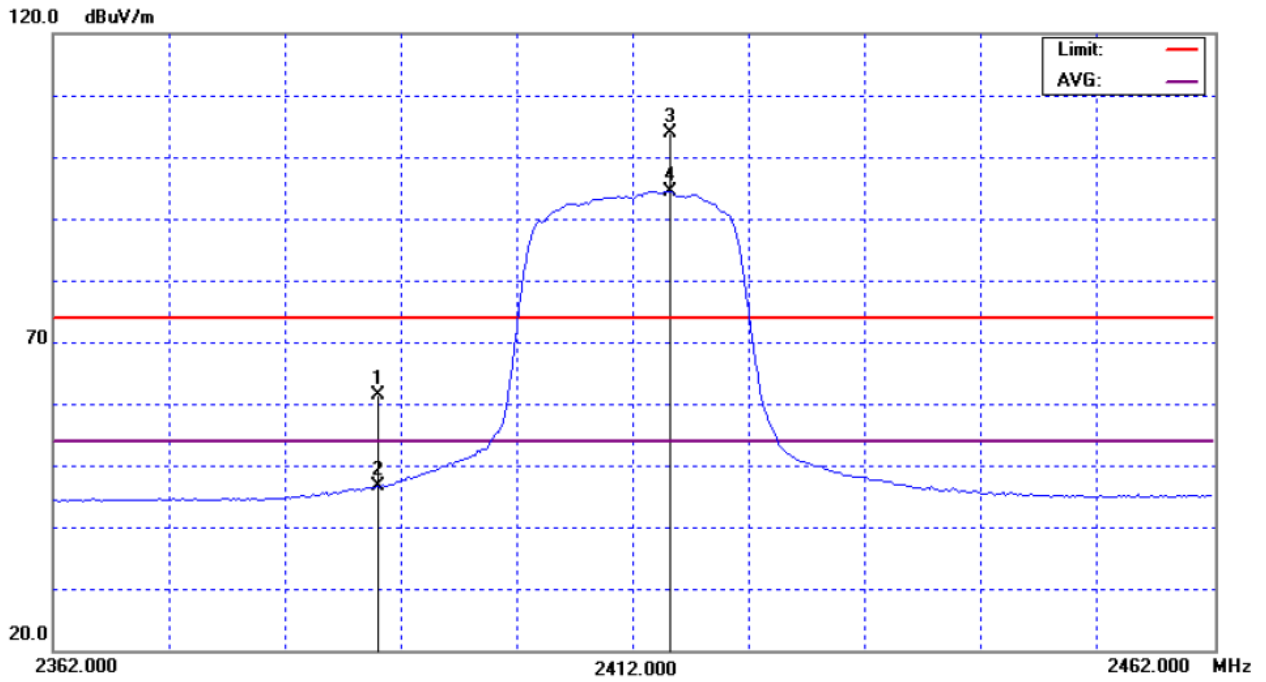
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	V	28.83	14.01	32.57	61.40	46.58	74.00	54.00	X
2483.50	V	30.25	14.78	33.10	63.35	47.88	74.00	54.00	X

Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (3) EUT Orthogonal Axes :
 "X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand



802.11n/20M (CHIP) (Restricted Bands Requirements, Vertical)





EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	14 °C	Relative Humidity :	57%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/20M (CHIP) (Horizontal)		
Note :	<p>The emission of the carrier radiated field strength is measured for CH01/CH11 (Peak and AV) as following:</p> <ol style="list-style-type: none"> 1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH01). Then the field strength was measured at 2310-2390 MHz. 2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH11). Then the field strength was measured at 2483.5-2500 MHz. 		

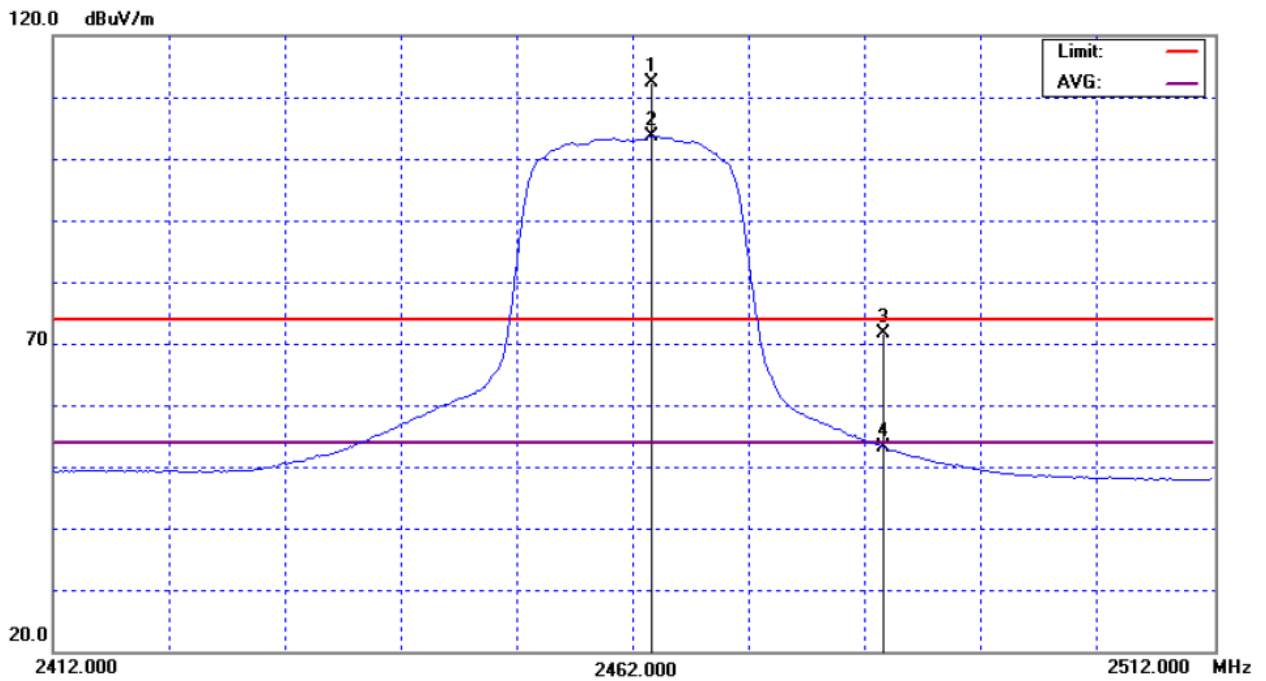
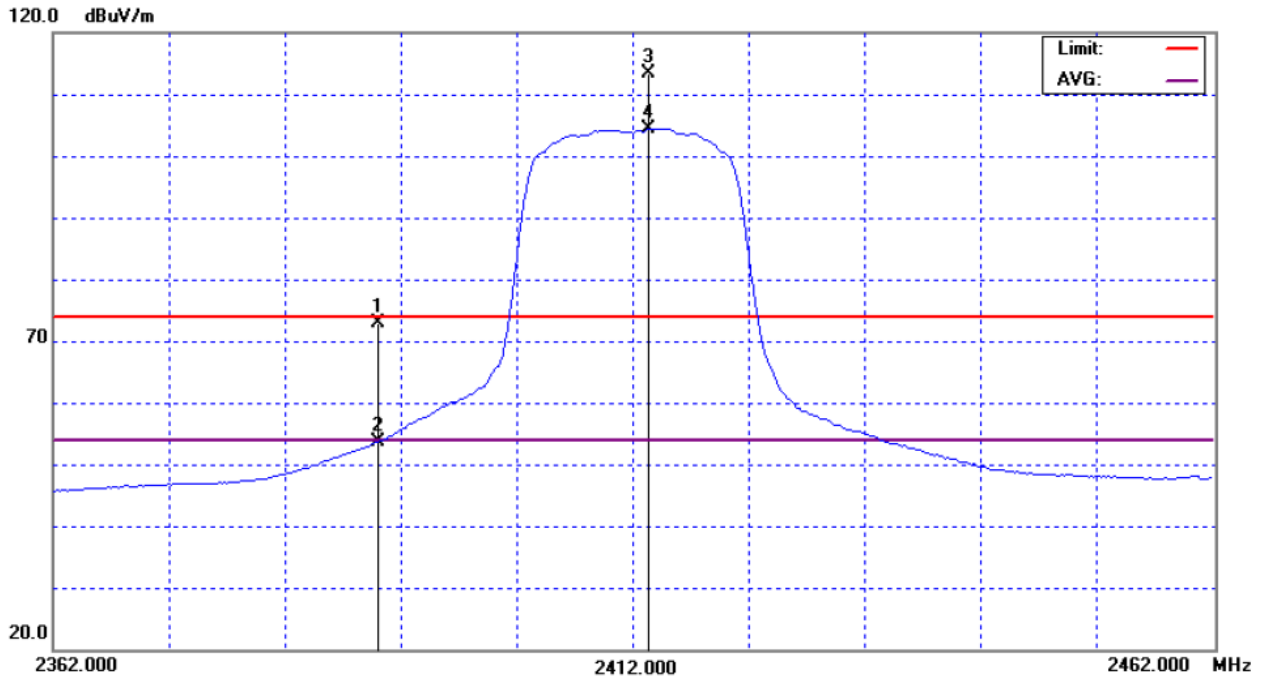
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	H	40.31	21.13	32.57	72.88	53.70	74.00	54.00	X
2483.50	H	38.63	20.12	33.10	71.73	53.22	74.00	54.00	X

Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (3) EUT Orthogonal Axes :
 "X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand



802.11n/20M (CHIP) (Restricted Bands Requirements, Horizontal)





EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	14 °C	Relative Humidity :	57%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/40M (CHIP) (Vertical)		
Note :	<p>The emission of the carrier radiated field strength is measured for CH03/CH09 (Peak and AV) as following:</p> <ol style="list-style-type: none"> 1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH03). Then the field strength was measured at 2310-2390 MHz. 2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH09). Then the field strength was measured at 2483.5-2500 MHz. 		

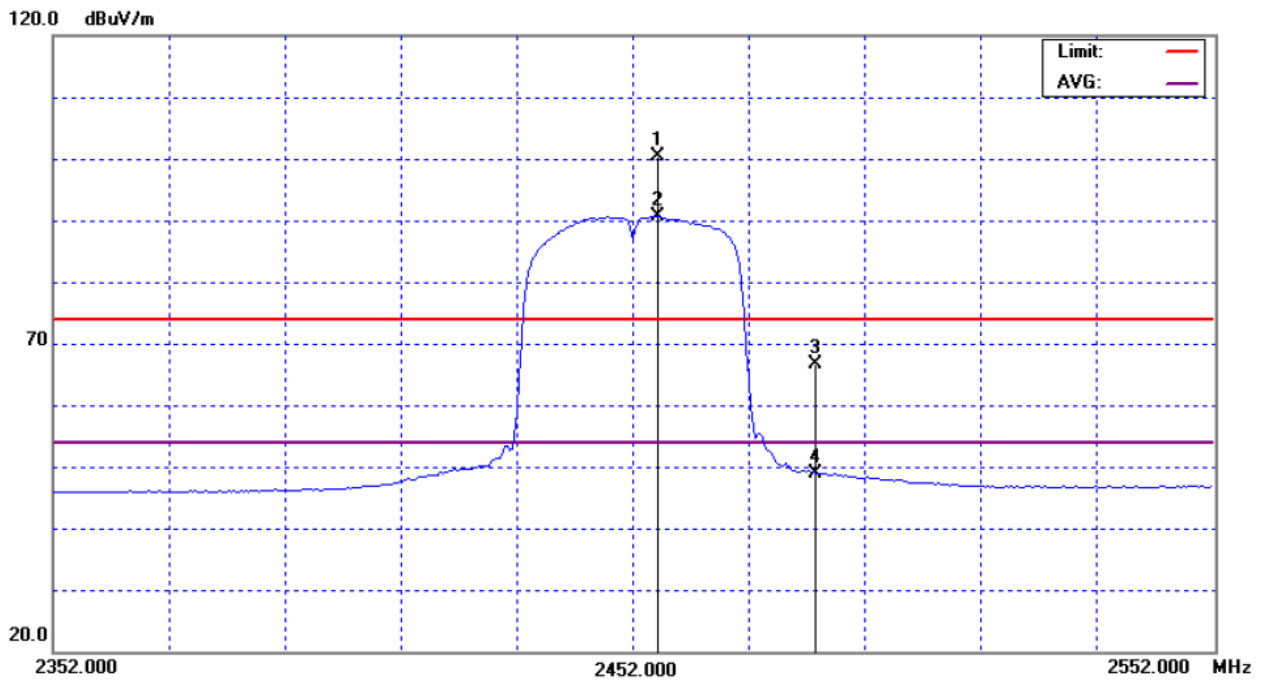
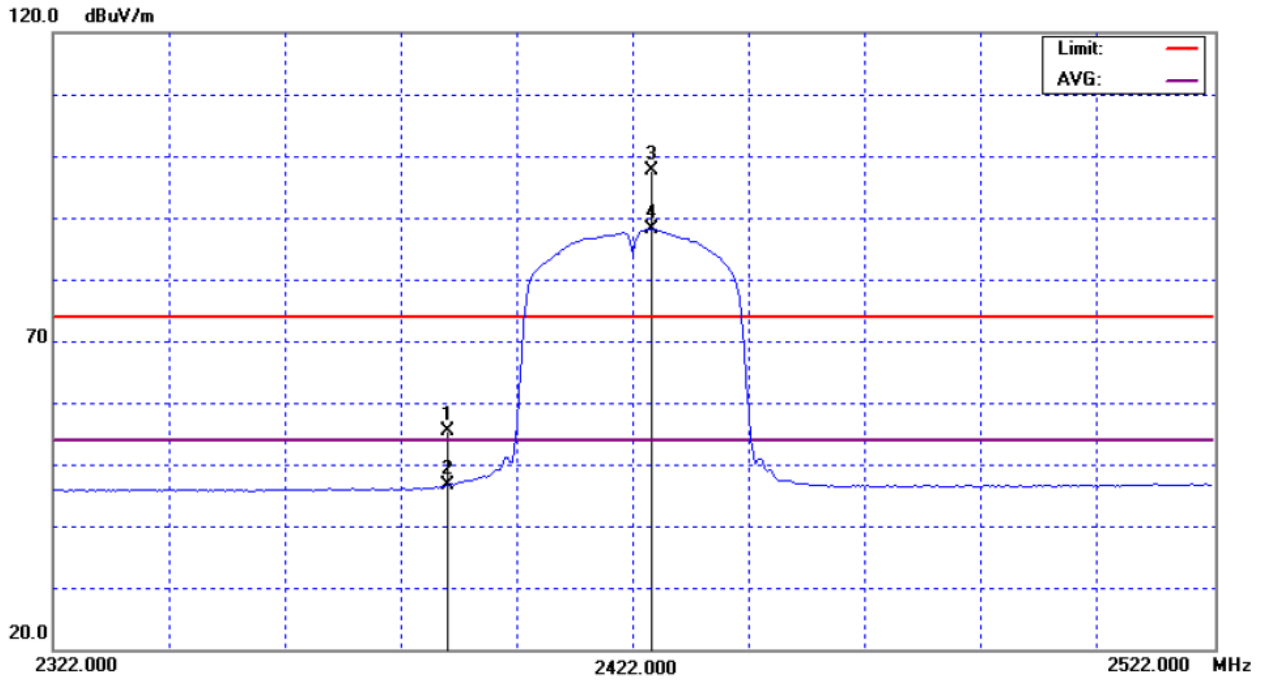
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	V	22.83	14.01	32.57	55.40	46.58	74.00	54.00	X
2483.50	V	33.59	15.86	33.10	66.69	48.96	74.00	54.00	X

Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (3) EUT Orthogonal Axes :
 "X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand



802.11n/40M (CHIP) (Restricted Bands Requirements, Vertical)





EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	14 °C	Relative Humidity :	57%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/40M (CHIP) (Horizontal)		
Note :	<p>The emission of the carrier radiated field strength is measured for CH01/CH11 (Peak and AV) as following:</p> <ol style="list-style-type: none"> 1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH01). Then the field strength was measured at 2310-2390 MHz. 2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH11). Then the field strength was measured at 2483.5-2500 MHz. 		

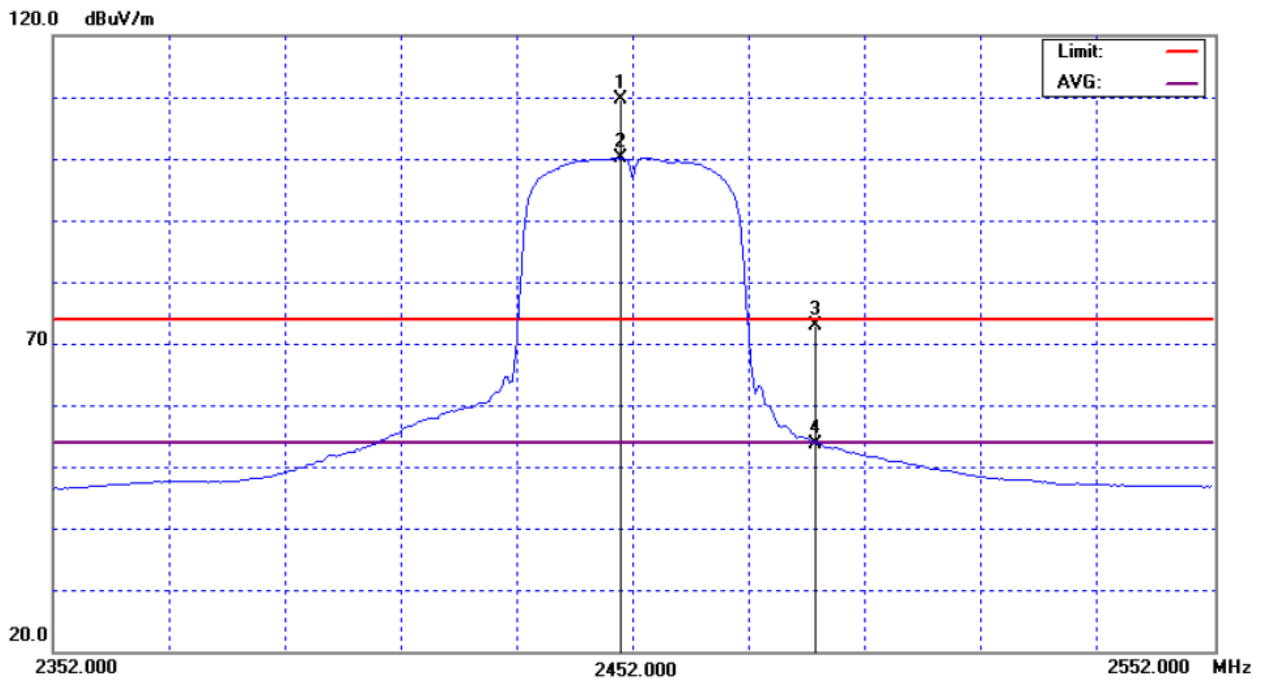
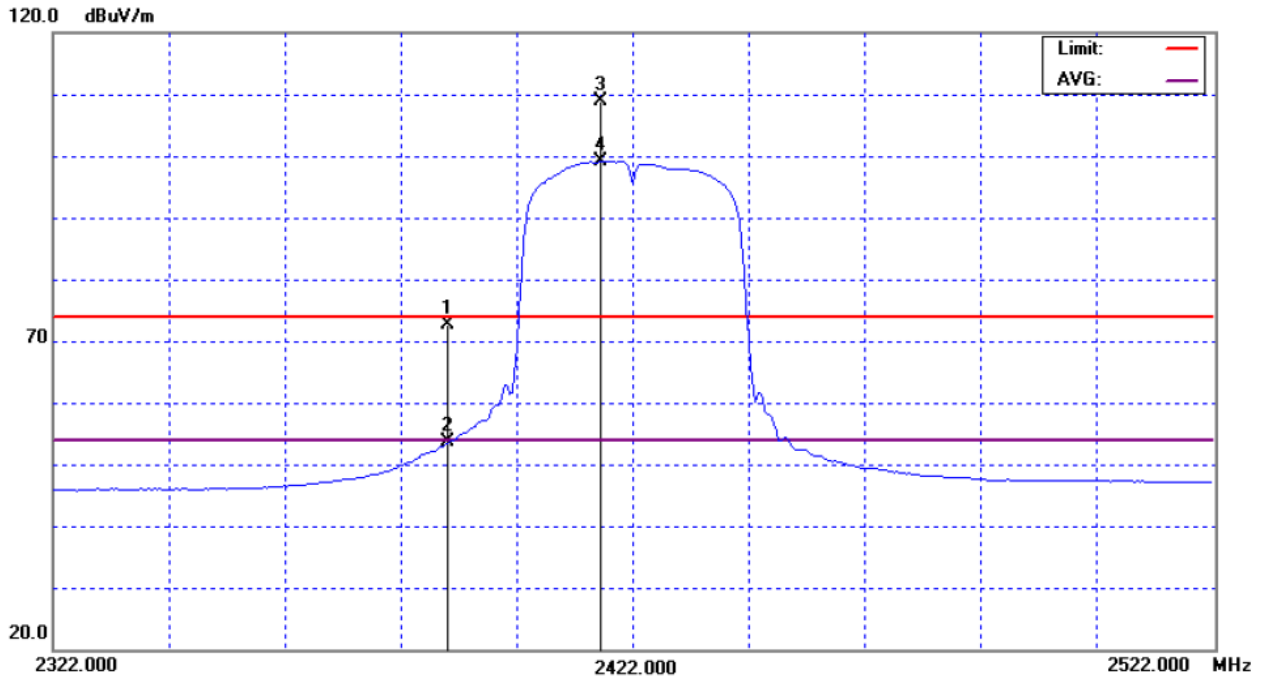
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	H	40.15	21.12	32.57	72.72	53.69	74.00	54.00	X
2483.50	H	39.77	20.58	33.10	72.87	53.68	74.00	54.00	X

Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (3) EUT Orthogonal Axes :
 "X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand



802.11n/40M (CHIP) (Restricted Bands Requirements, Horizontal)





4.2.12 TEST RESULTS-RESTRICTED BANDS REQUIREMENTS - PIFA

EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	21 °C	Relative Humidity :	66%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b (PIFA) (Vertical)		
Note :	<p>The emission of the carrier radiated field strength is measured for CH01/CH11 (Peak and AV) as following:</p> <ol style="list-style-type: none"> 1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH01). Then the field strength was measured at 2310-2390 MHz. 2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH11). Then the field strength was measured at 2483.5-2500 MHz. 		

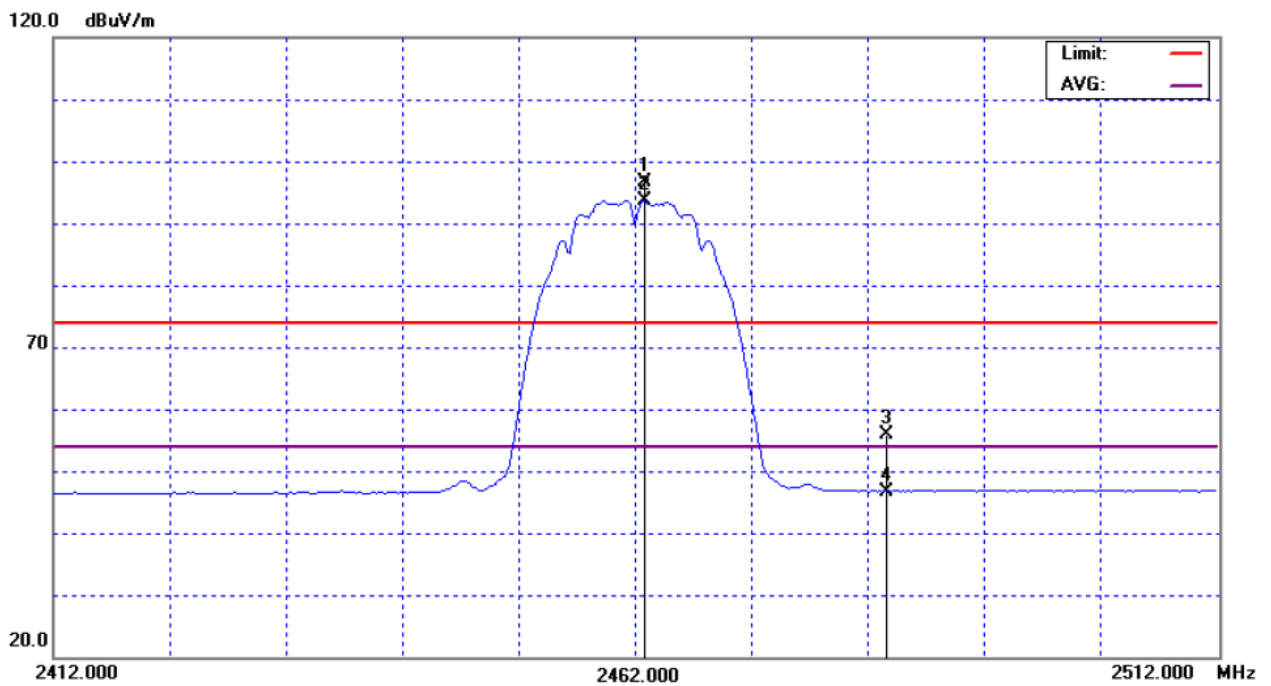
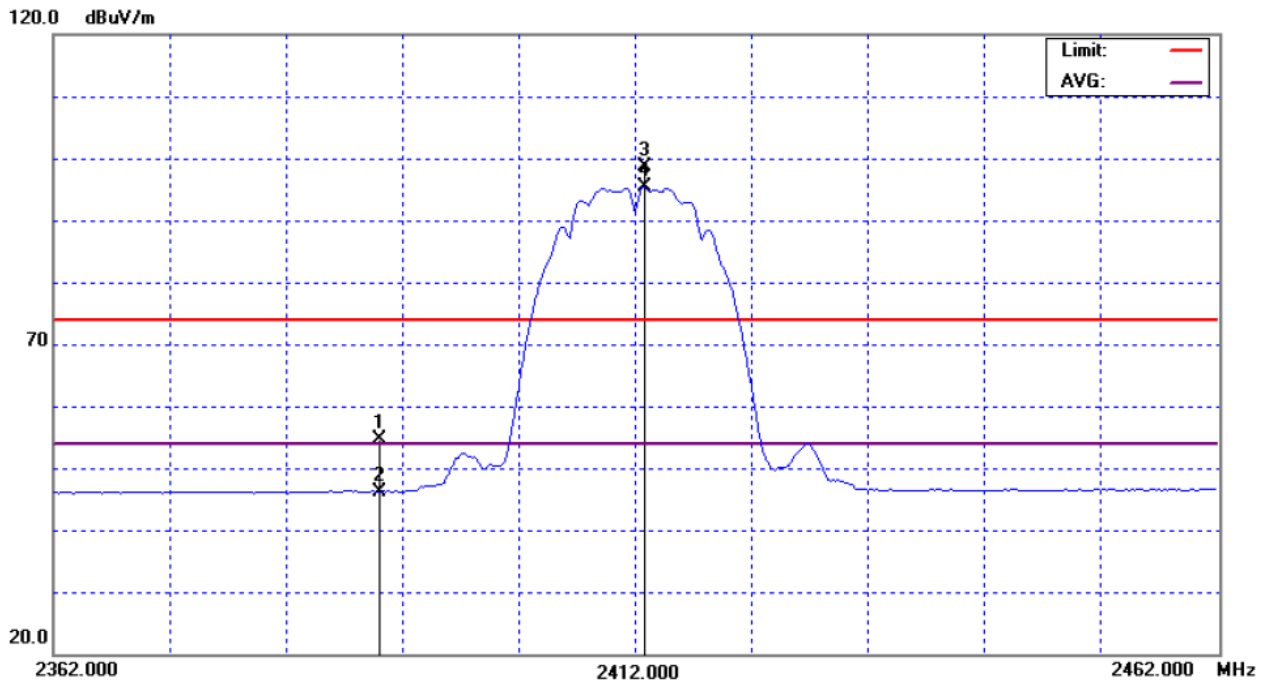
Freq. (MHz)	Ant. Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	V	22.00	13.64	32.57	54.57	46.21	74.00	54.00	X
2483.50	V	22.74	13.65	33.10	55.84	46.75	74.00	54.00	X

Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (3) EUT Orthogonal Axes :
 "X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand



802.11b (PIFA) (Restricted Bands Requirements, Vertical)





EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	21 °C	Relative Humidity :	66%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b (PIFA) (Horizontal)		
Note :	<p>The emission of the carrier radiated field strength is measured for CH01/CH11 (Peak and AV) as following:</p> <ol style="list-style-type: none"> 1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH01). Then the field strength was measured at 2310-2390 MHz. 2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH11). Then the field strength was measured at 2483.5-2500 MHz. 		

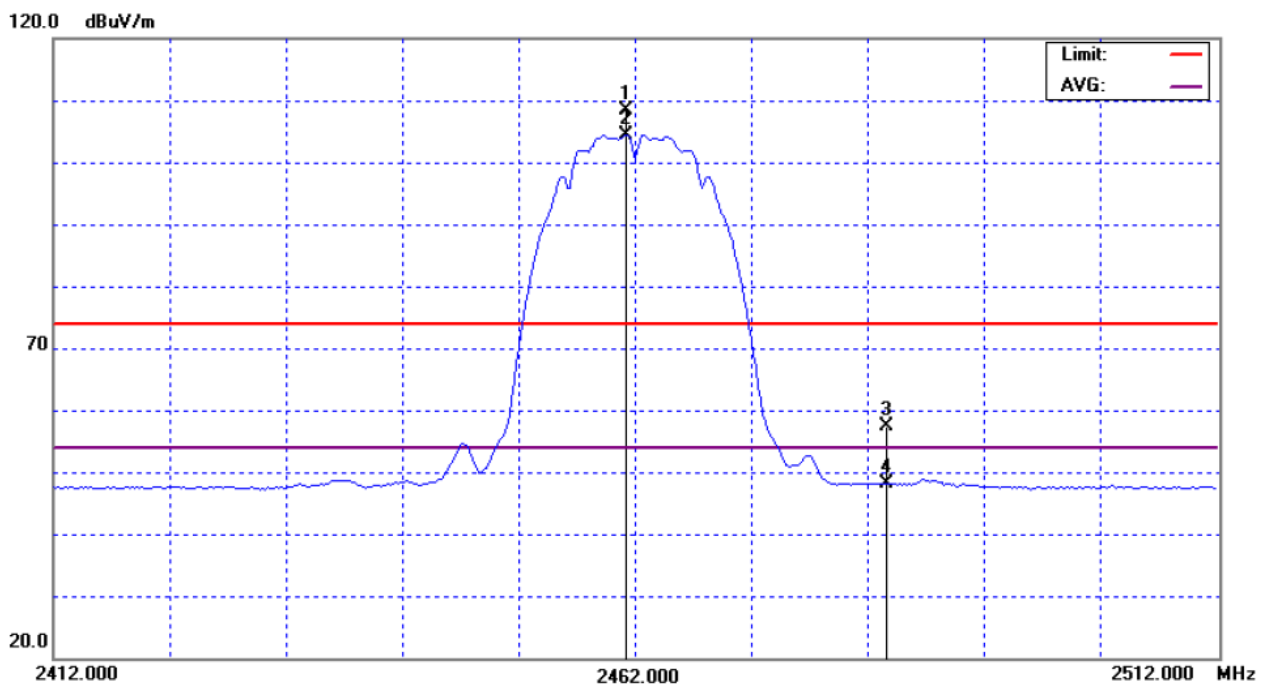
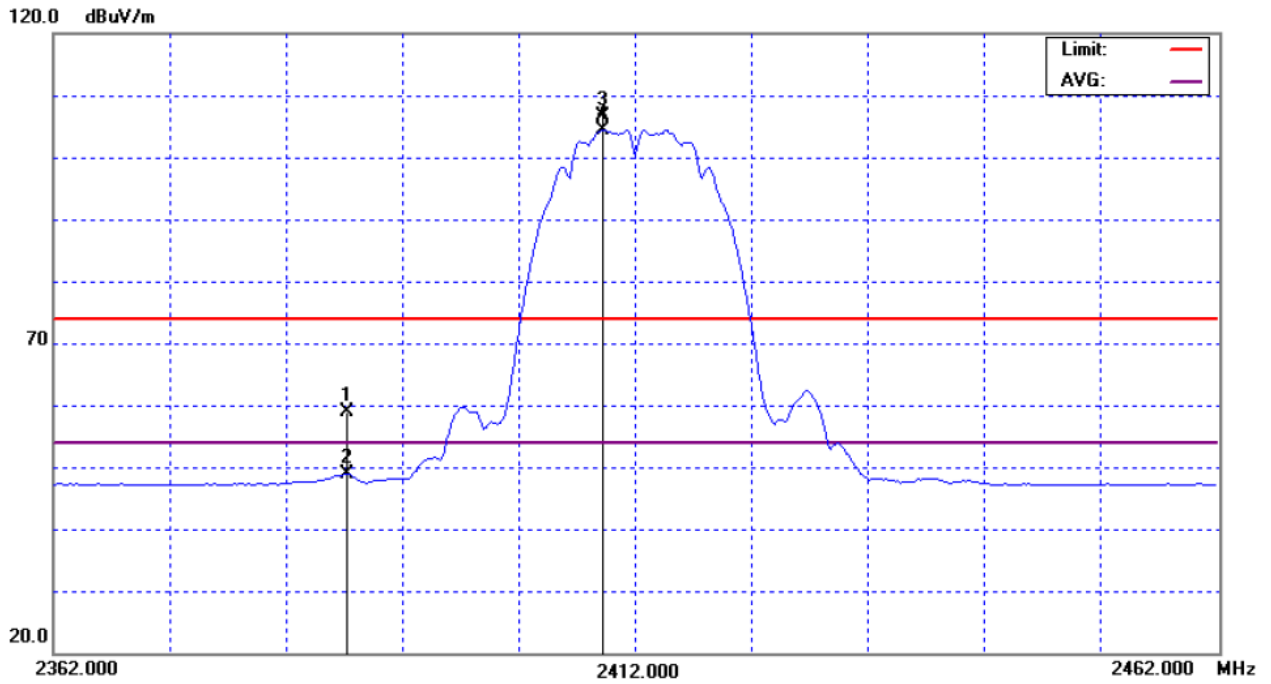
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2387.20	H	26.21	16.42	32.56	58.77	48.98	74.00	54.00	X
2483.50	H	24.35	15.02	33.10	57.45	48.12	74.00	54.00	X

Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (3) EUT Orthogonal Axes :
 "X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand



802.11b (PIFA) (Restricted Bands Requirements, Horizontal)





EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	21 °C	Relative Humidity :	66%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11g (PIFA) (Vertical)		
Note :	<p>The emission of the carrier radiated field strength is measured for CH01/CH11 (Peak and AV) as following:</p> <ol style="list-style-type: none"> 1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH01). Then the field strength was measured at 2310-2390 MHz. 2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH11). Then the field strength was measured at 2483.5-2500 MHz. 		

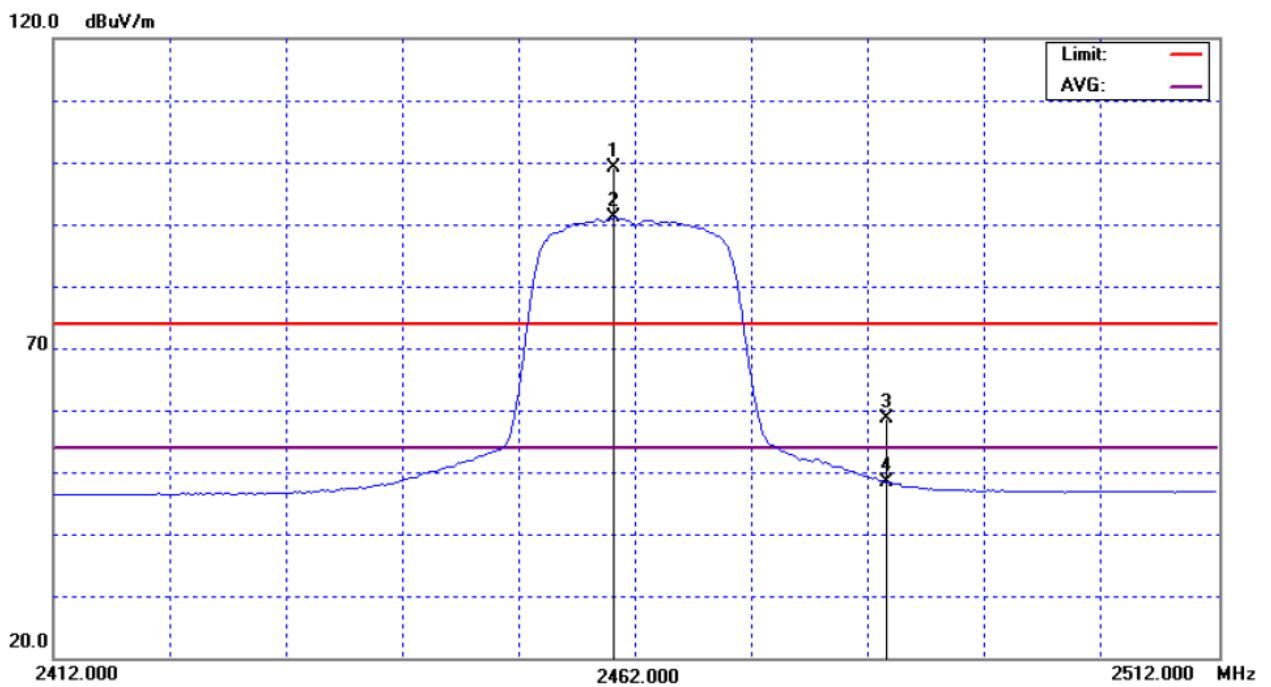
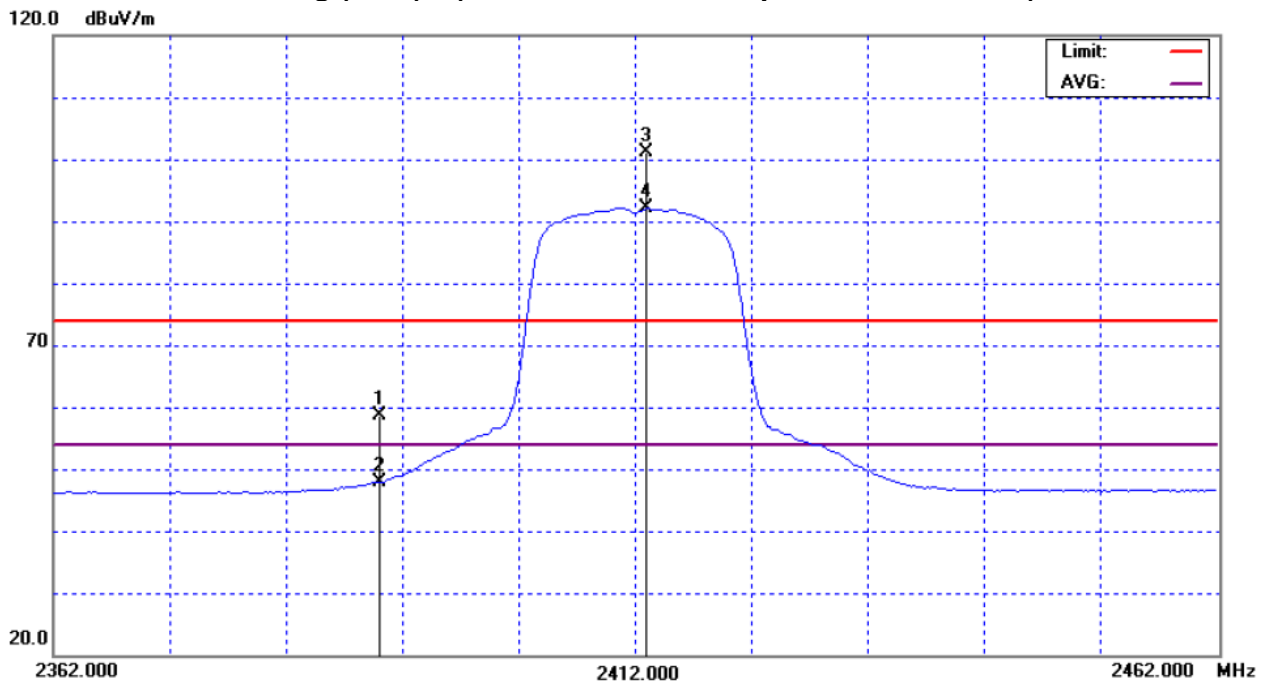
Freq. (MHz)	Ant. Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	V	26.08	15.29	32.57	58.65	47.86	74.00	54.00	X
2483.50	V	25.45	15.32	33.10	58.55	48.42	74.00	54.00	X

Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (3) EUT Orthogonal Axes :
 "X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand



802.11g (PIFA) (Restricted Bands Requirements, Vertical)





EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	21 °C	Relative Humidity :	66%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11g (PIFA) (Horizontal)		
Note :	<p>The emission of the carrier radiated field strength is measured for CH01/CH11 (Peak and AV) as following:</p> <ol style="list-style-type: none"> 1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH01). Then the field strength was measured at 2310-2390 MHz. 2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH11). Then the field strength was measured at 2483.5-2500 MHz. 		

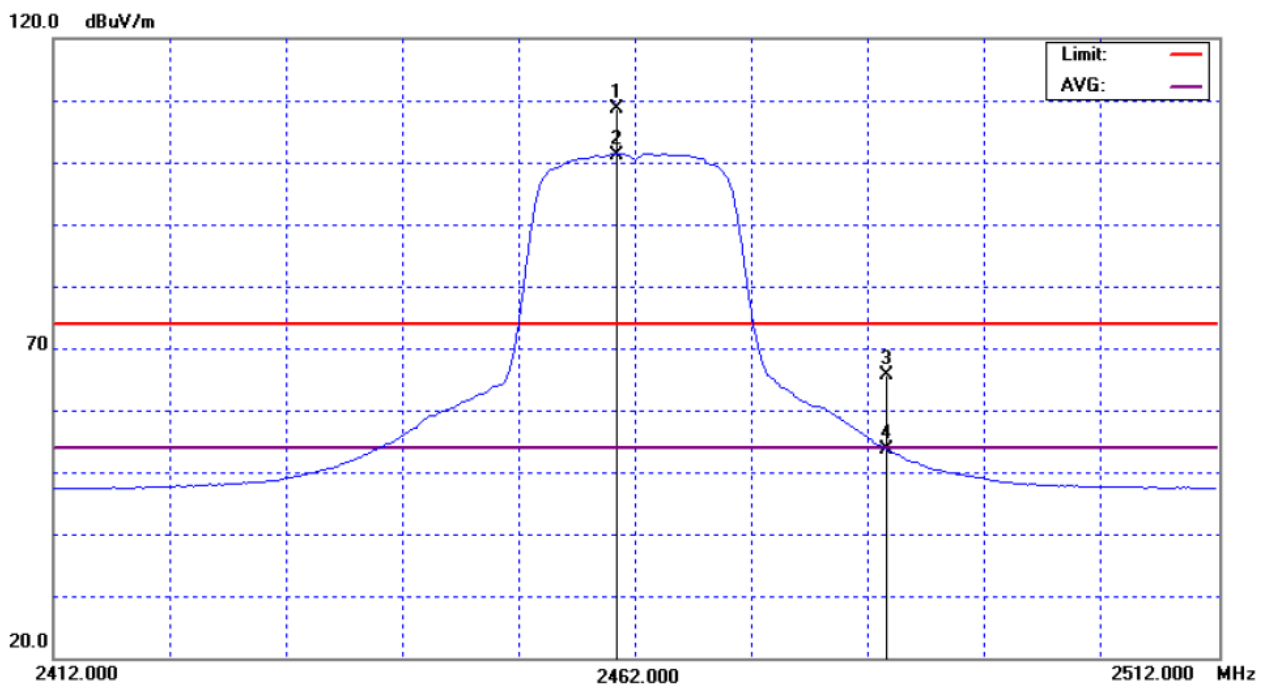
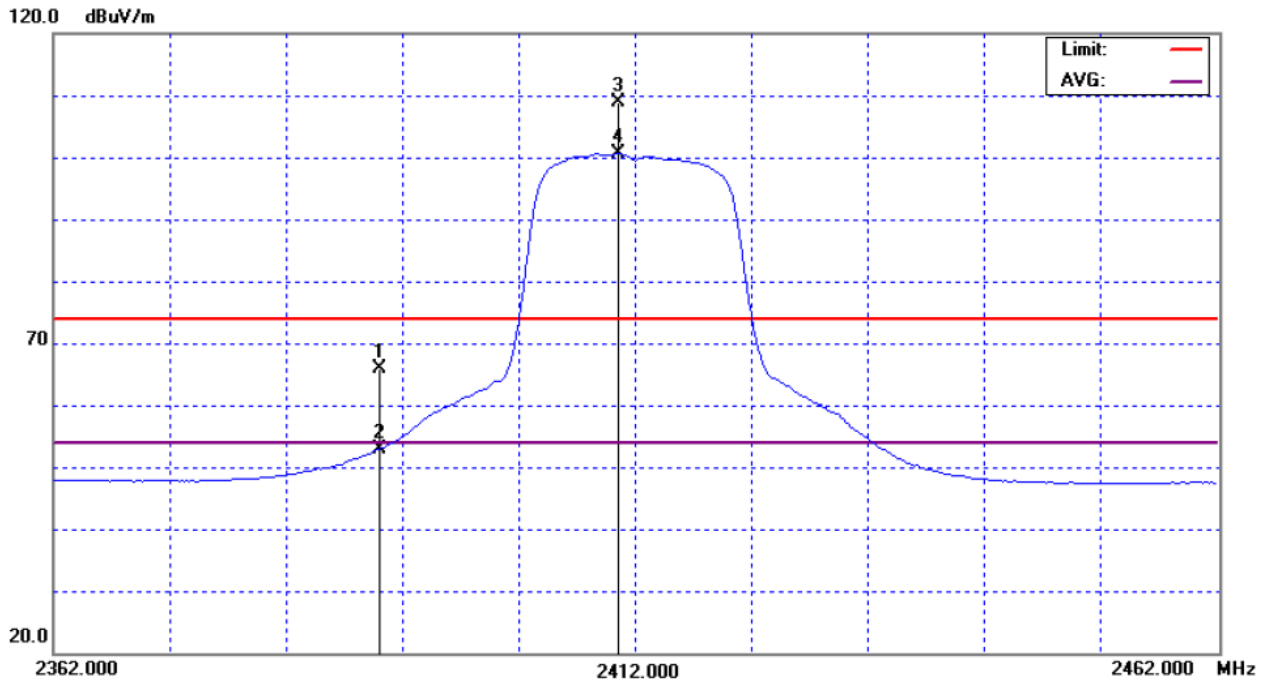
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	H	33.36	20.35	32.57	65.93	52.92	74.00	54.00	X
2483.50	H	32.62	20.57	33.10	65.72	53.67	74.00	54.00	X

Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (3) EUT Orthogonal Axes :
 "X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand



802.11g (PIFA) (Restricted Bands Requirements, Horizontal)





EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	21 °C	Relative Humidity :	66%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/20M (PIFA) (Vertical)		
Note :	<p>The emission of the carrier radiated field strength is measured for CH01/CH11 (Peak and AV) as following:</p> <ol style="list-style-type: none"> 1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH01). Then the field strength was measured at 2310-2390 MHz. 2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH11). Then the field strength was measured at 2483.5-2500 MHz. 		

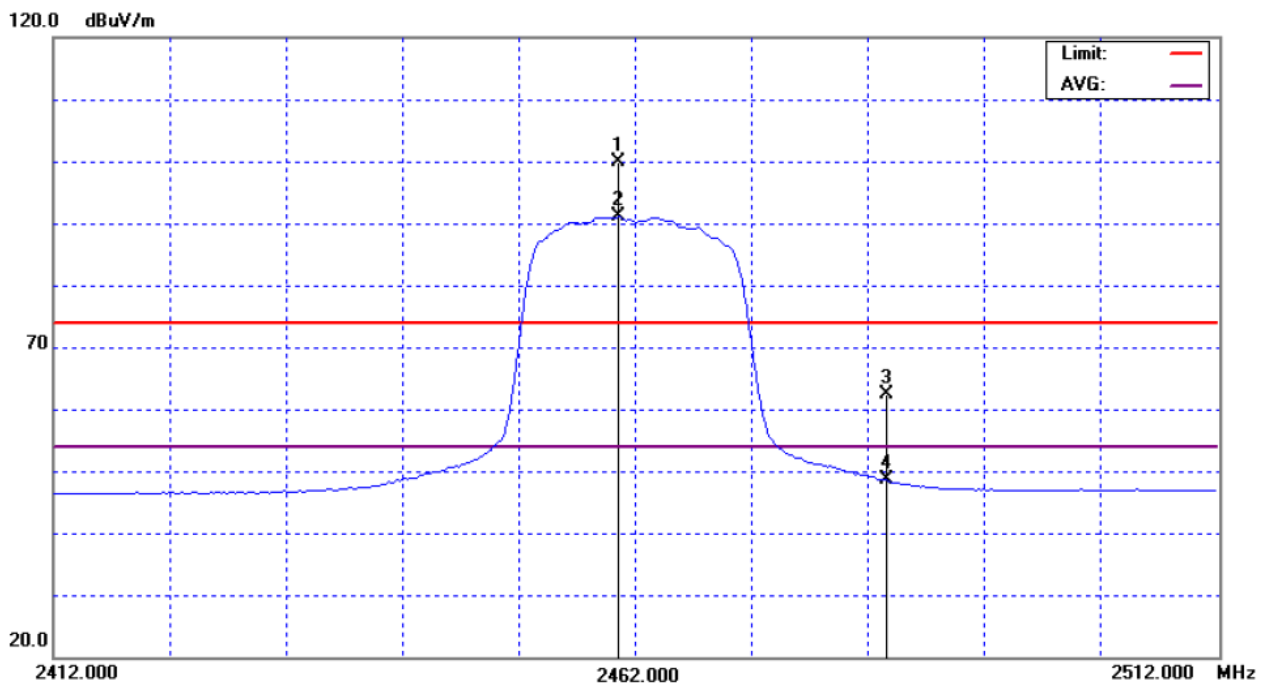
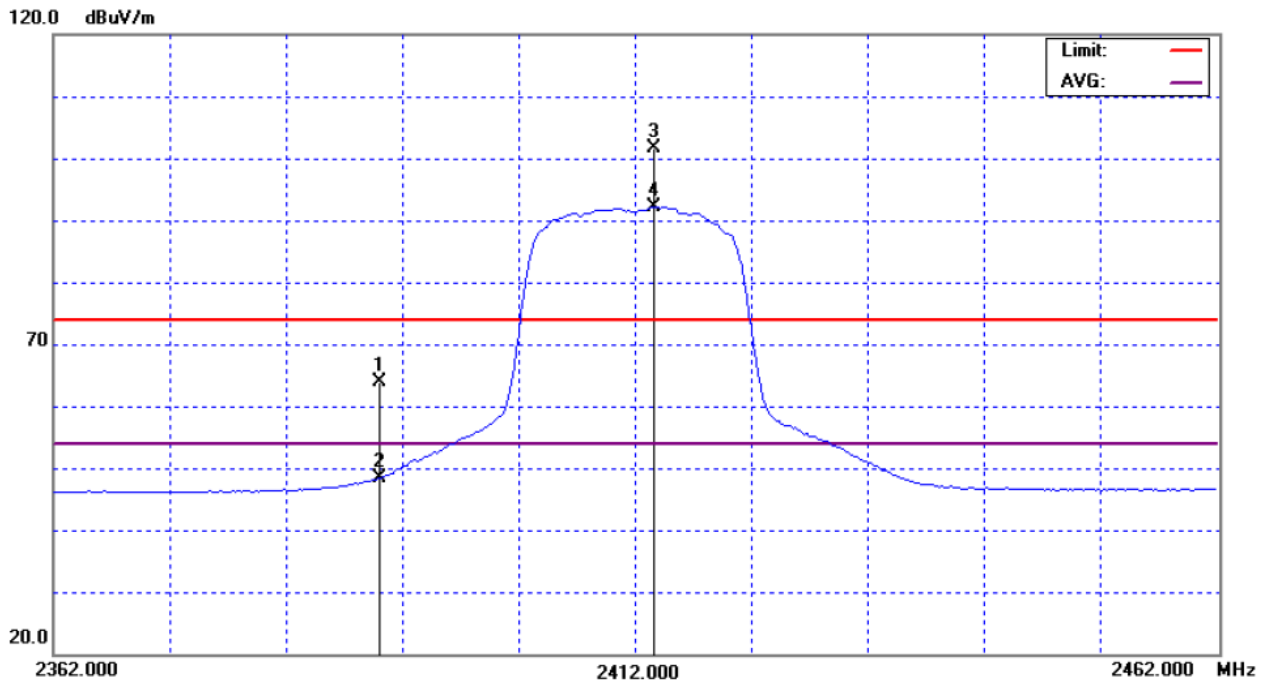
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	V	31.33	15.72	32.57	63.90	48.29	74.00	54.00	X
2483.50	V	29.24	15.53	33.10	62.34	48.63	74.00	54.00	X

Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (3) EUT Orthogonal Axes :
 "X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand



802.11n/20M (PIFA) (Restricted Bands Requirements, Vertical)





EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	21 °C	Relative Humidity :	66%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/20M (PIFA) (Horizontal)		
Note :	<p>The emission of the carrier radiated field strength is measured for CH01/CH11 (Peak and AV) as following:</p> <ol style="list-style-type: none"> 1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH01). Then the field strength was measured at 2310-2390 MHz. 2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH11). Then the field strength was measured at 2483.5-2500 MHz. 		

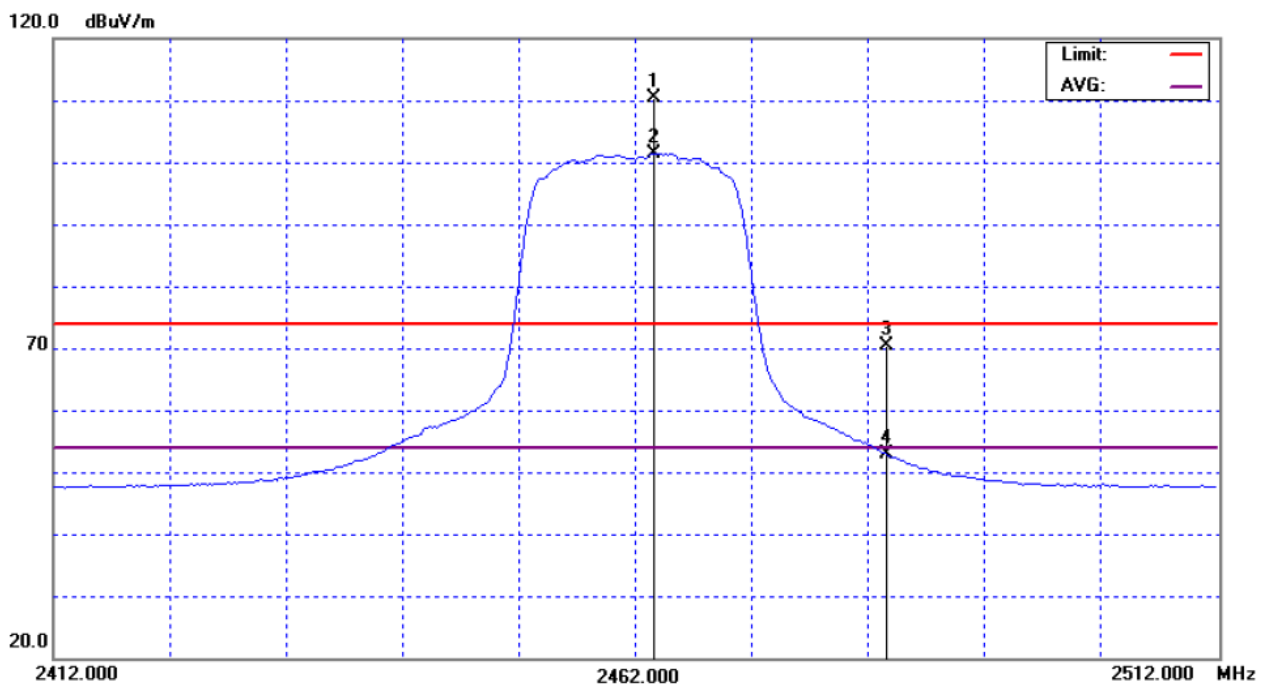
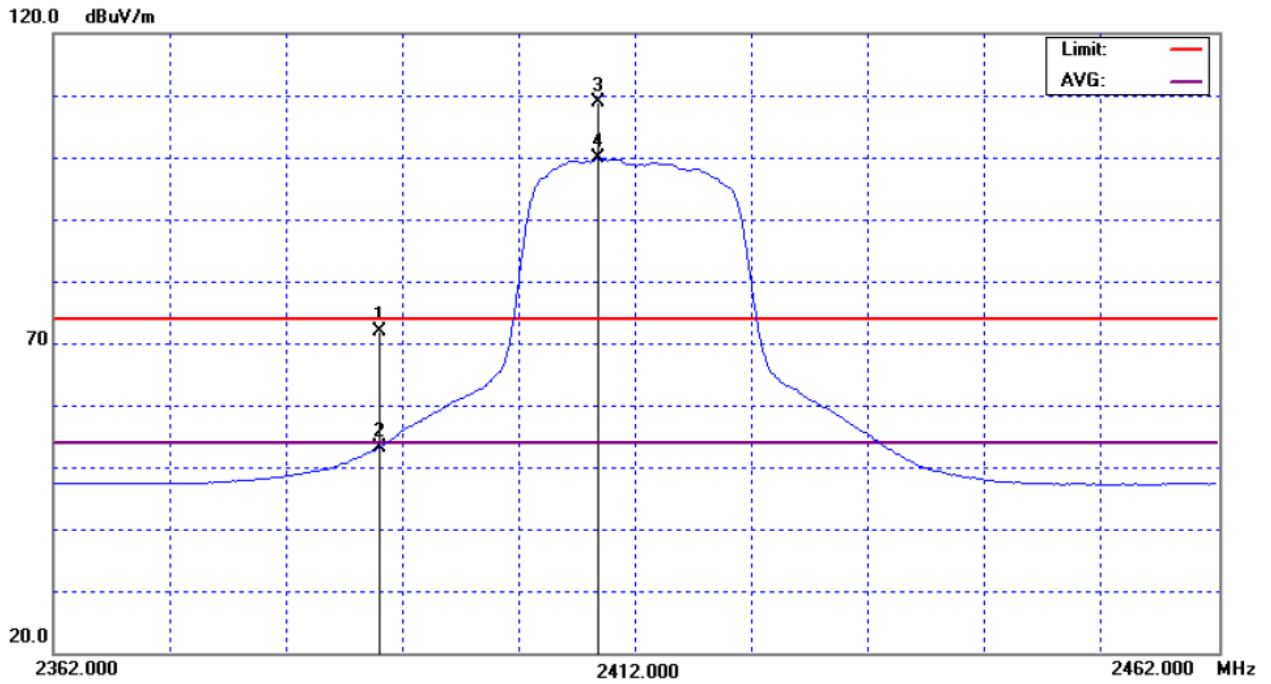
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	H	39.20	20.65	32.57	71.77	53.22	74.00	54.00	X
2483.50	H	37.31	19.87	33.10	70.41	52.97	74.00	54.00	X

Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (3) EUT Orthogonal Axes :
 "X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand



802.11n/20M (PIFA) (Restricted Bands Requirements, Horizontal)





EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	21 °C	Relative Humidity :	66%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/40M (PIFA) (Vertical)		
Note :	<p>The emission of the carrier radiated field strength is measured for CH03/CH09 (Peak and AV) as following:</p> <ol style="list-style-type: none"> 1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH03). Then the field strength was measured at 2310-2390 MHz. 2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH09). Then the field strength was measured at 2483.5-2500 MHz. 		

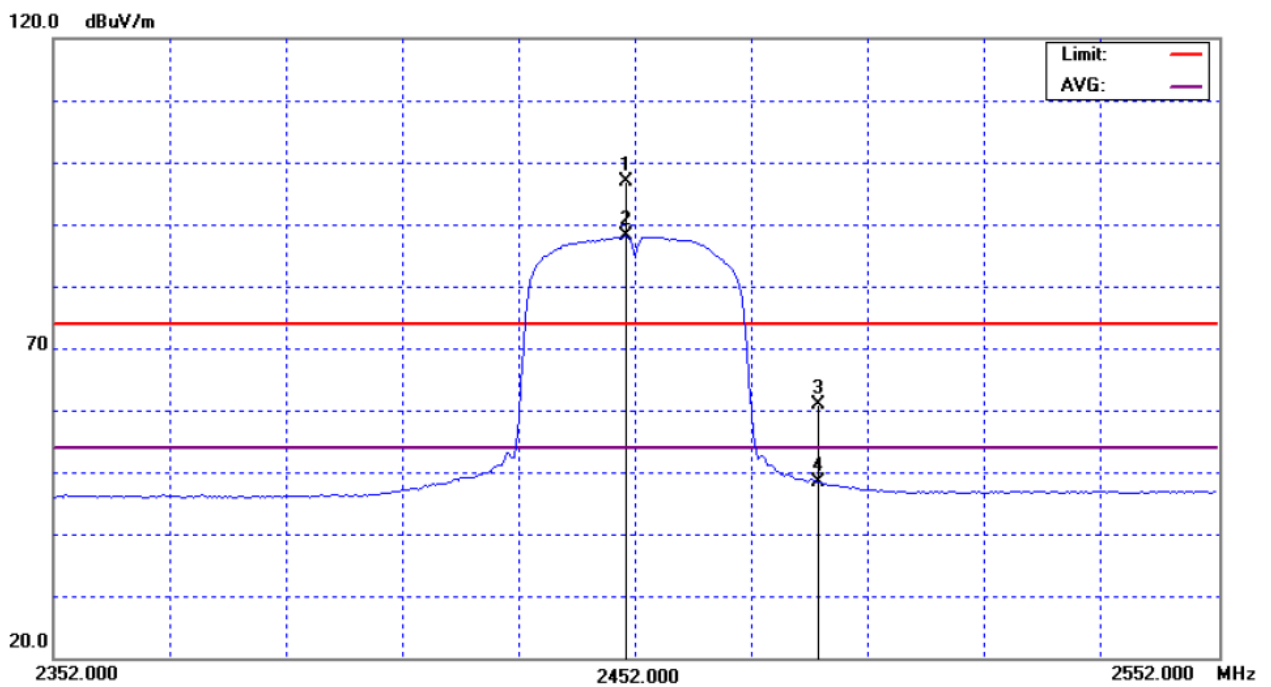
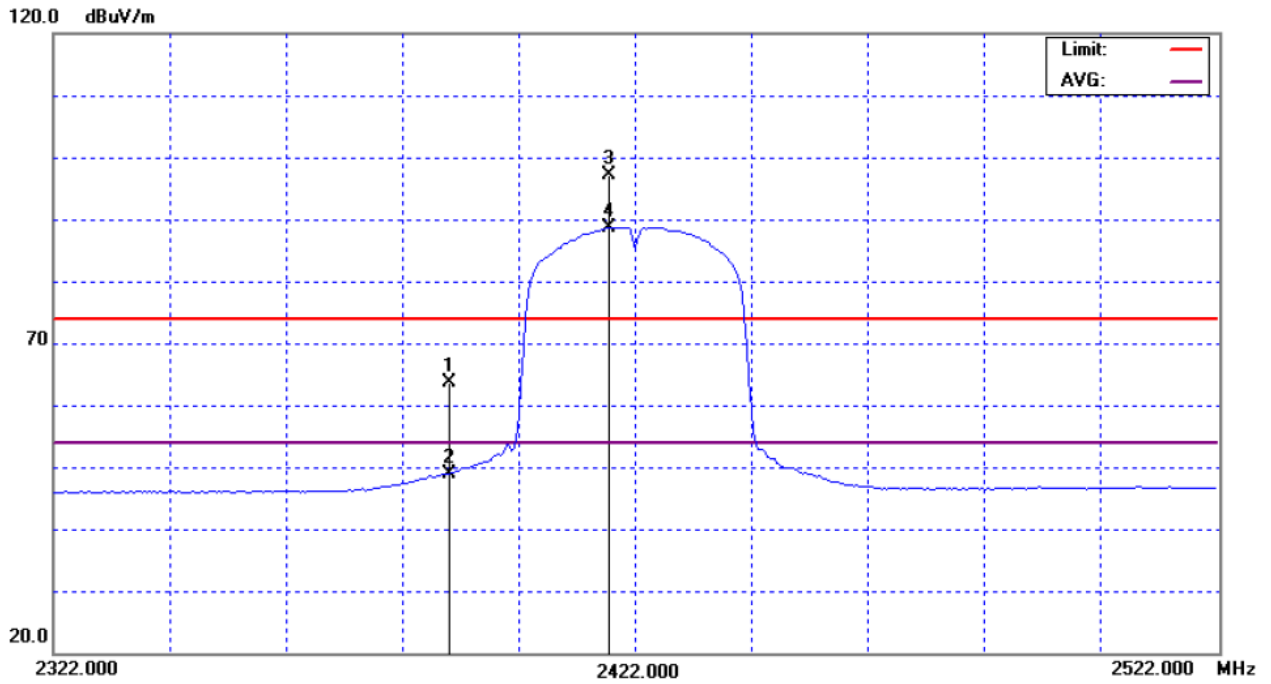
Freq. (MHz)	Ant. Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	V	31.00	16.32	32.57	63.57	48.89	74.00	54.00	X
2483.50	V	27.72	15.26	33.10	60.82	48.36	74.00	54.00	X

Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (3) EUT Orthogonal Axes :
 "X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand



802.11n/40M (PIFA) (Restricted Bands Requirements, Vertical)





EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	21 °C	Relative Humidity :	66%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/40M (PIFA) (Horizontal)		
Note :	<p>The emission of the carrier radiated field strength is measured for CH01/CH11 (Peak and AV) as following:</p> <ol style="list-style-type: none"> 1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH01). Then the field strength was measured at 2310-2390 MHz. 2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH11). Then the field strength was measured at 2483.5-2500 MHz. 		

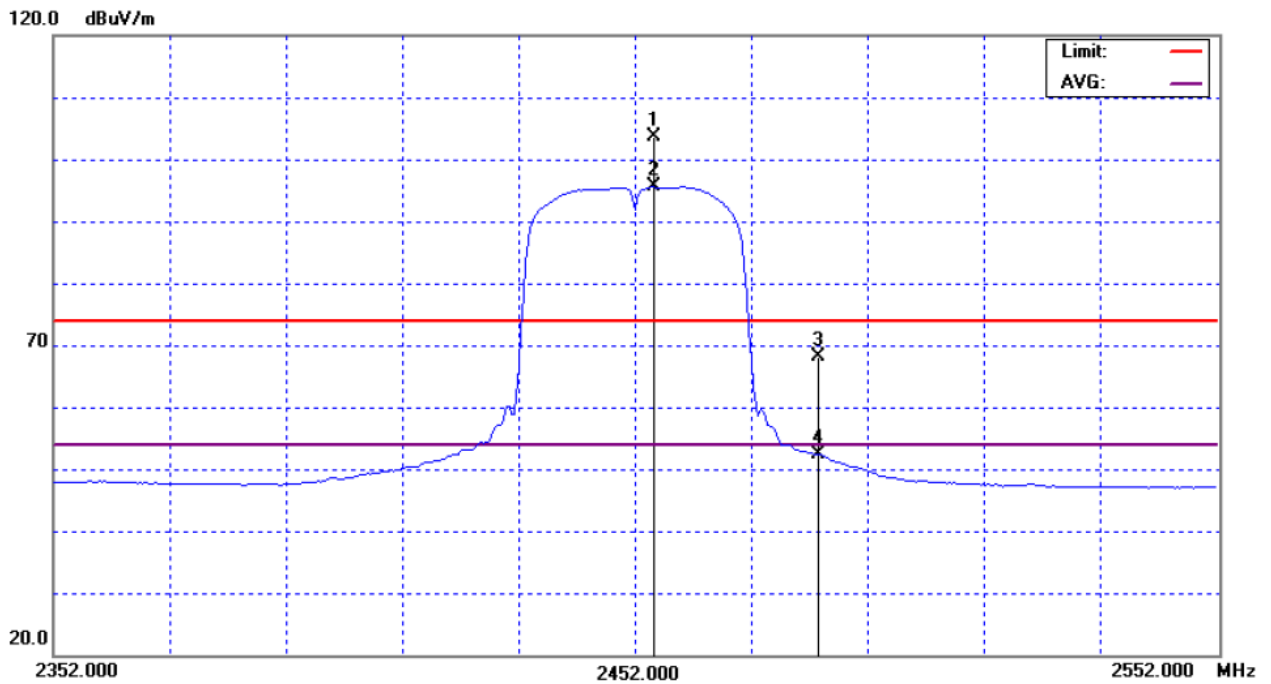
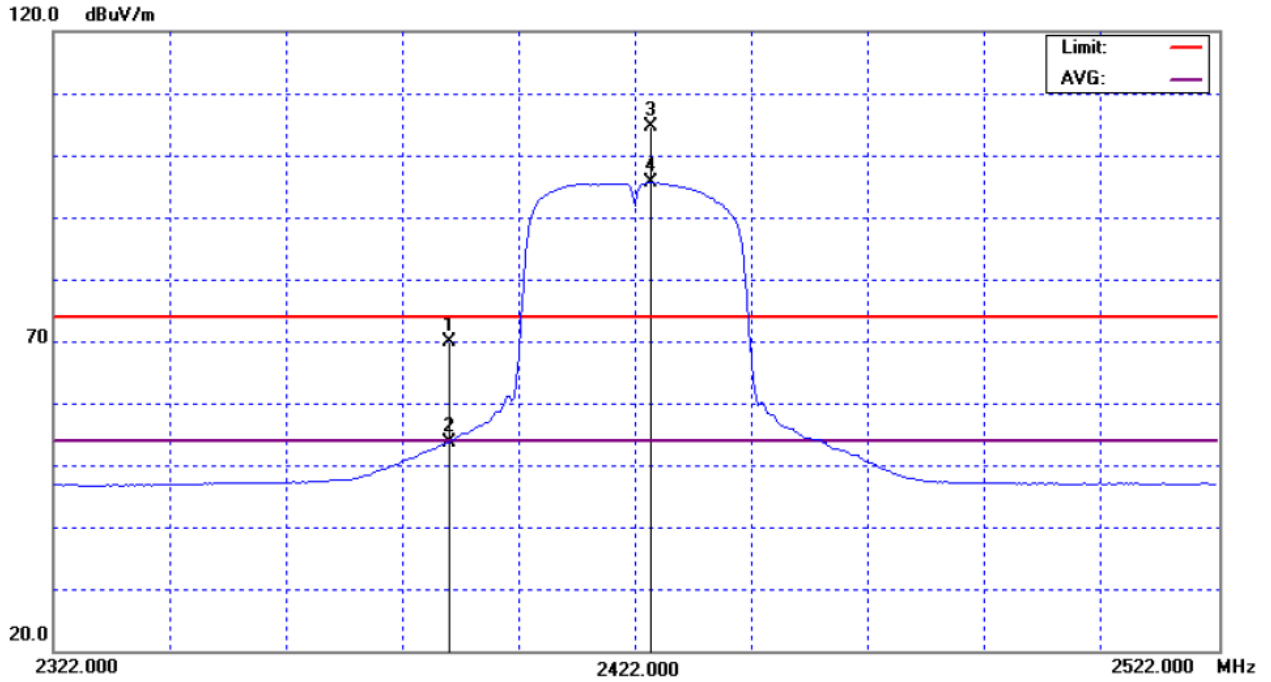
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	H	37.42	21.14	32.57	69.99	53.71	74.00	54.00	X
2483.50	H	35.07	19.27	33.10	68.17	52.37	74.00	54.00	X

Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (3) EUT Orthogonal Axes :
 "X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand



802.11n/40M (PIFA) (Restricted Bands Requirements, Horizontal)





4.2.13 TEST RESULTS-RESTRICTED BANDS REQUIREMENTS - DIPOLE

EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	21 °C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b (DIPOLE) (Vertical)		
Note :	<p>The emission of the carrier radiated field strength is measured for CH01/CH11 (Peak and AV) as following:</p> <ol style="list-style-type: none"> 1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH01). Then the field strength was measured at 2310-2390 MHz. 2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH11). Then the field strength was measured at 2483.5-2500 MHz. 		

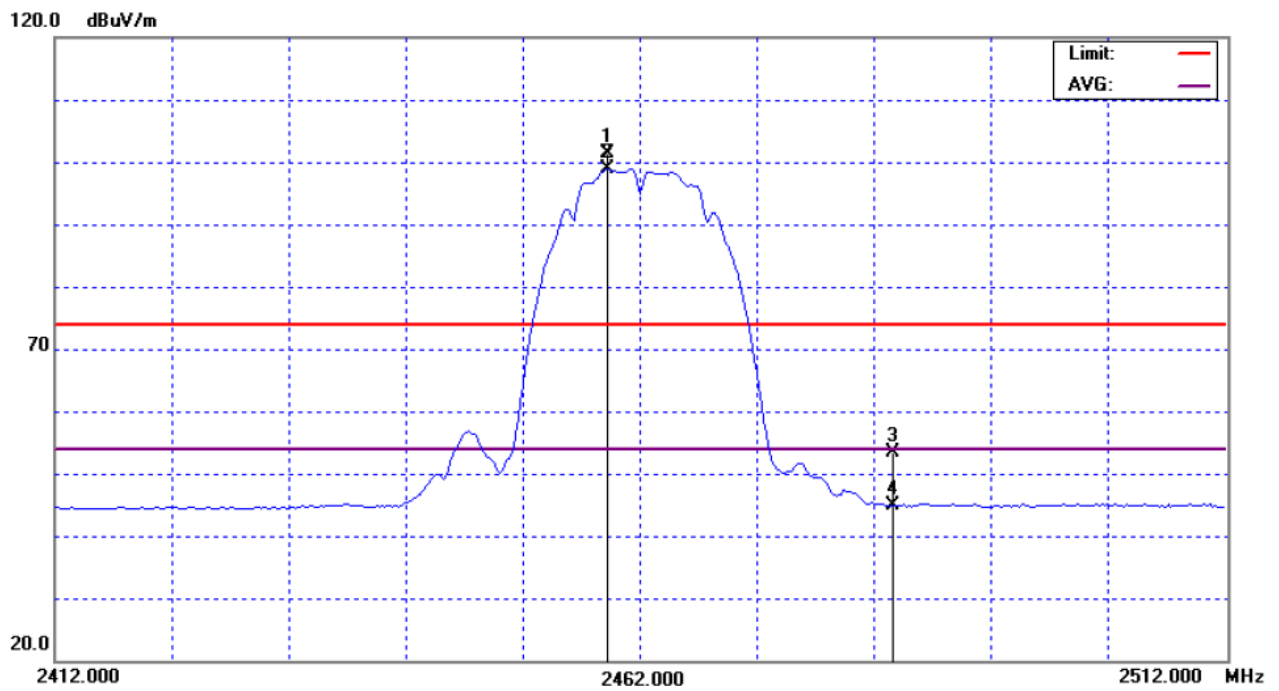
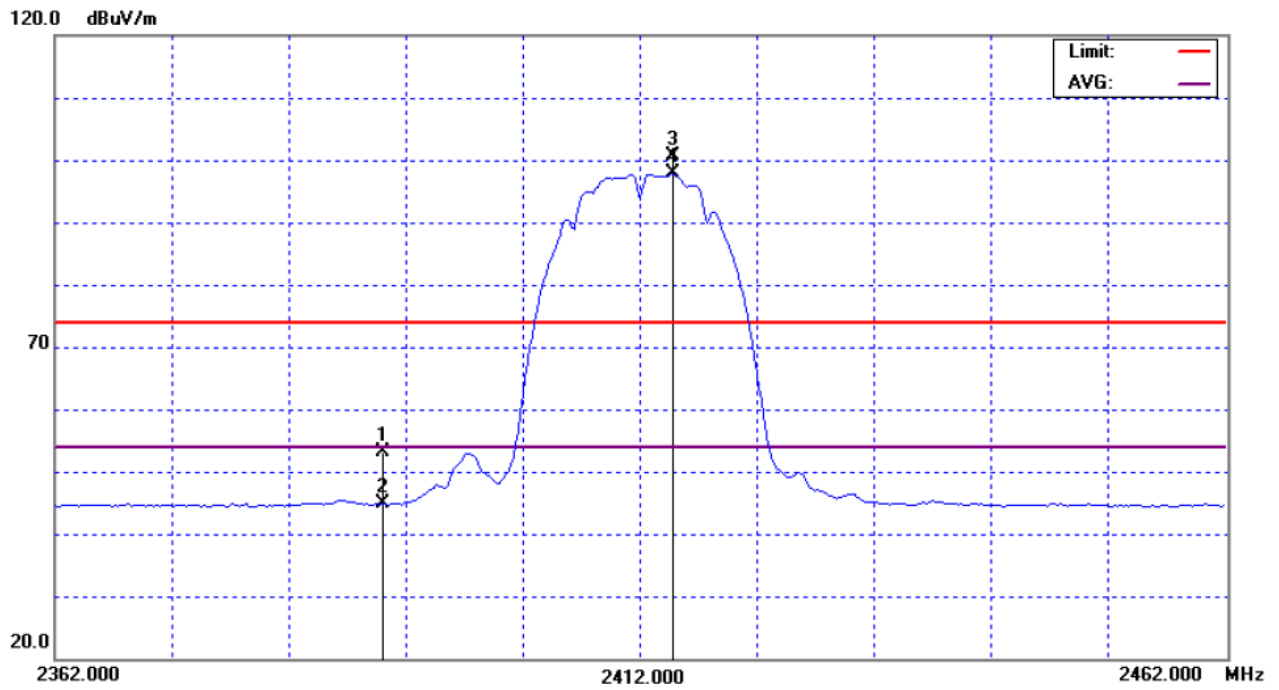
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	V	20.61	12.21	32.57	53.18	44.78	74.00	54.00	X
2483.50	V	20.35	11.77	33.10	53.45	44.87	74.00	54.00	X

Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (3) EUT Orthogonal Axes :
 "X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand



802.11b (DIPOLE) (Restricted Bands Requirements, Vertical)





EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	21 °C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b (DIPOLE) (Horizontal)		
Note :	<p>The emission of the carrier radiated field strength is measured for CH01/CH11 (Peak and AV) as following:</p> <ol style="list-style-type: none"> 1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH01). Then the field strength was measured at 2310-2390 MHz. 2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH11). Then the field strength was measured at 2483.5-2500 MHz. 		

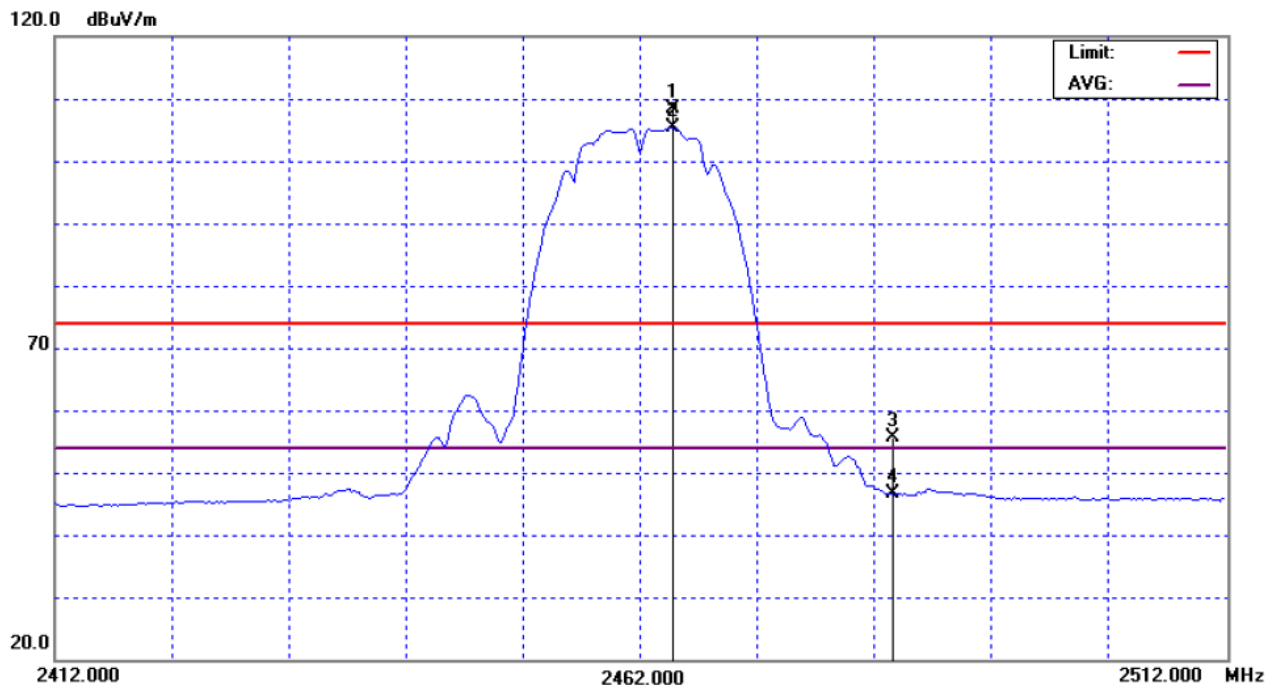
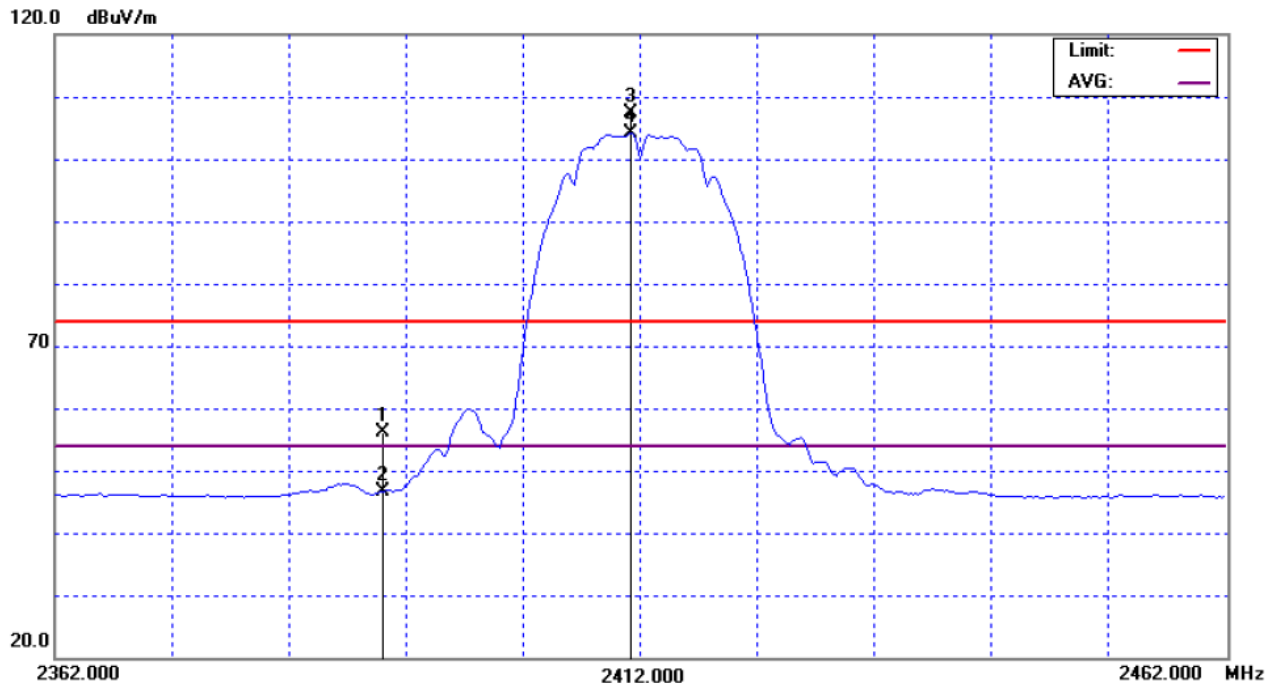
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	H	23.46	14.02	32.57	56.03	46.59	74.00	54.00	X
2483.50	H	22.54	13.47	33.10	55.64	46.57	74.00	54.00	X

Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (3) EUT Orthogonal Axes :
 "X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand



802.11b (DIPOLE) (Restricted Bands Requirements, Horizontal)





EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	16 °C	Relative Humidity :	57%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11g (DIPOLE) (Vertical)		
Note :	<p>The emission of the carrier radiated field strength is measured for CH01/CH11 (Peak and AV) as following:</p> <ol style="list-style-type: none"> 1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH01). Then the field strength was measured at 2310-2390 MHz. 2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH11). Then the field strength was measured at 2483.5-2500 MHz. 		

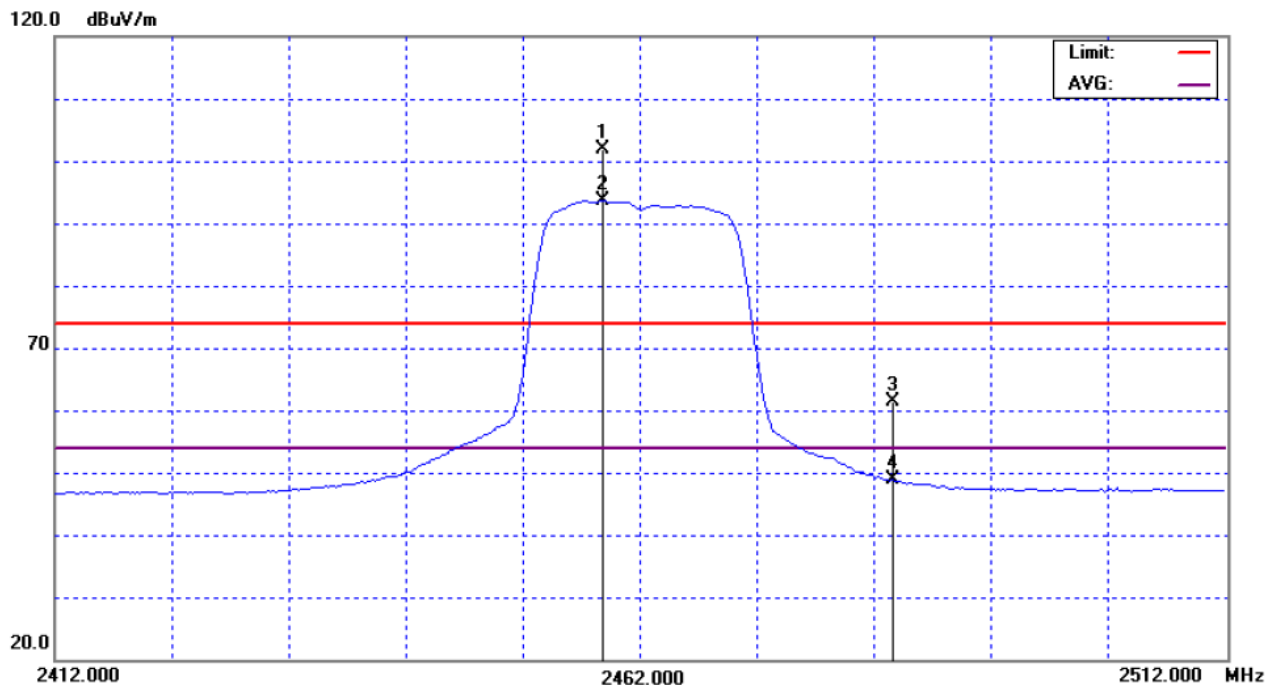
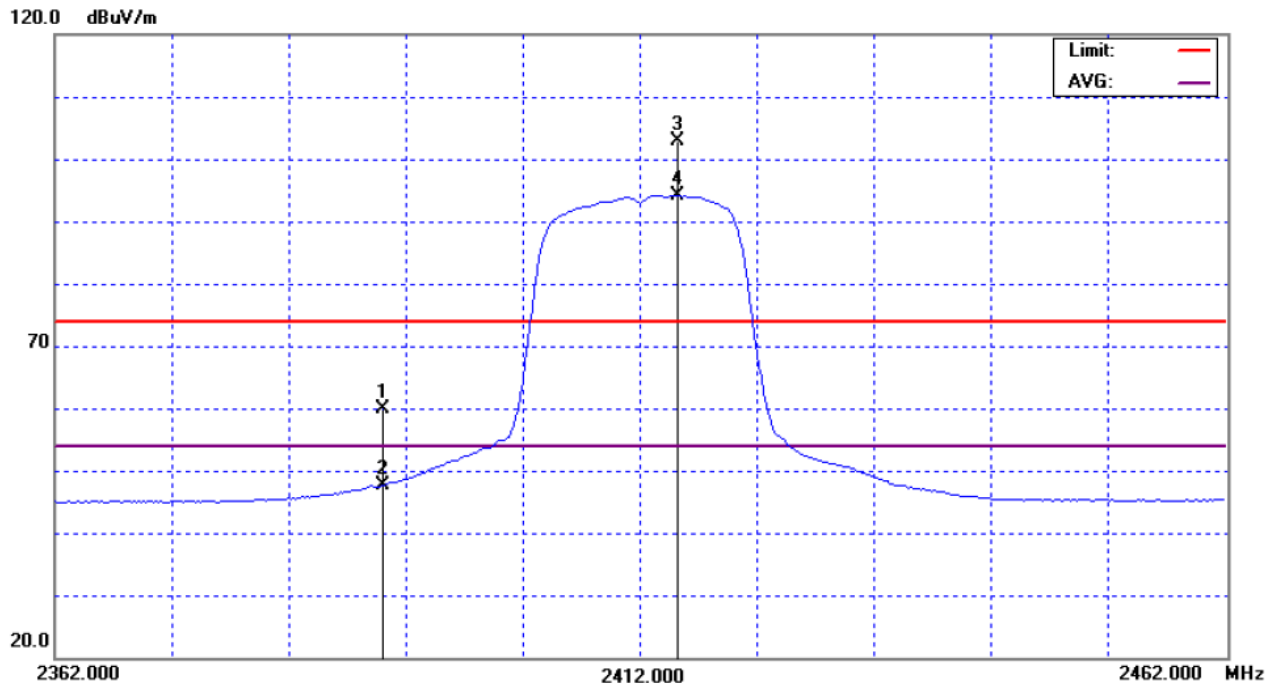
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	V	27.29	15.00	32.57	59.86	47.57	74.00	54.00	X
2483.50	V	28.35	15.77	33.10	61.45	48.87	74.00	54.00	X

Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (3) EUT Orthogonal Axes :
 "X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand



802.11g (DIPOLE) (Restricted Bands Requirements, Vertical)





EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	16 °C	Relative Humidity :	57%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11g (DIPOLE) (Horizontal)		
Note :	<p>The emission of the carrier radiated field strength is measured for CH01/CH11 (Peak and AV) as following:</p> <ol style="list-style-type: none"> 1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH01). Then the field strength was measured at 2310-2390 MHz. 2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH11). Then the field strength was measured at 2483.5-2500 MHz. 		

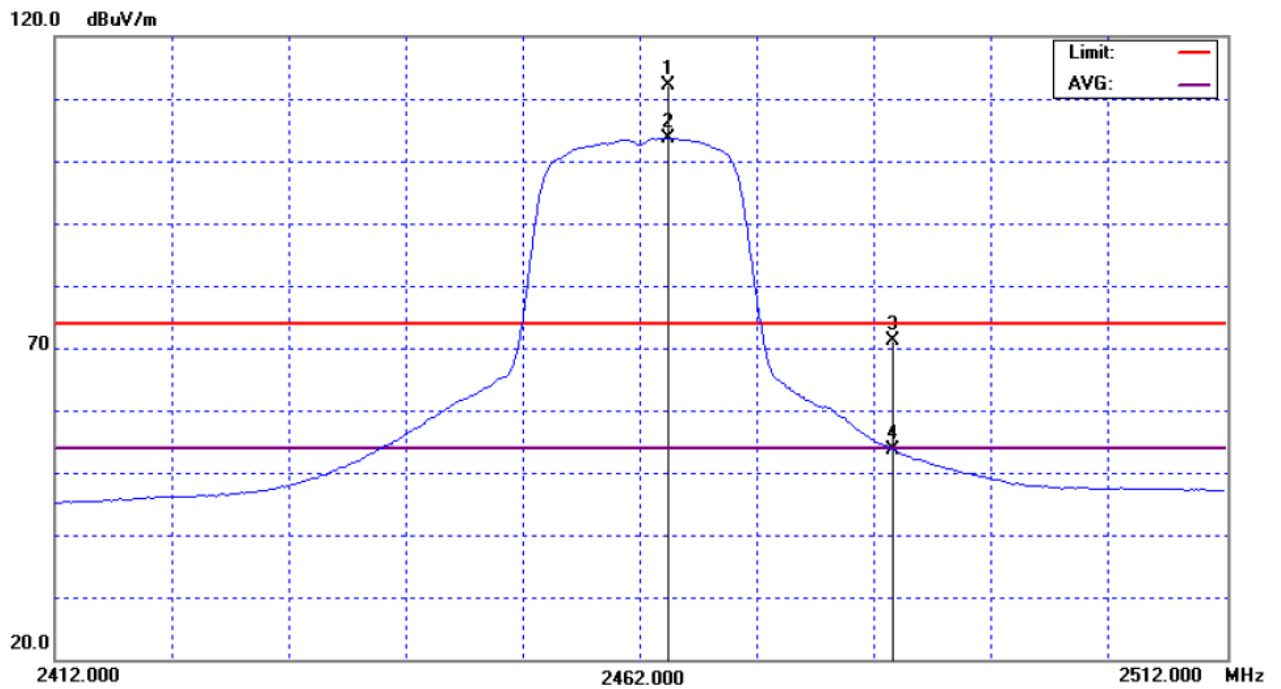
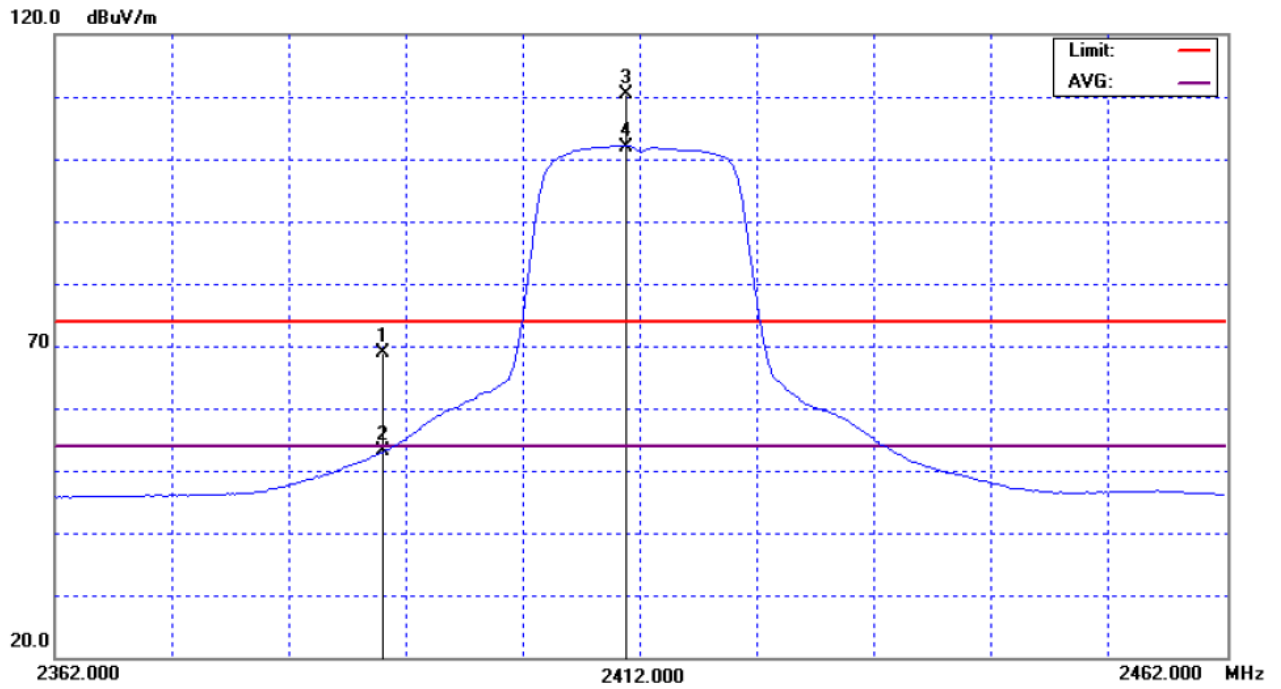
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	H	36.33	20.51	32.57	68.90	53.08	74.00	54.00	X
2483.50	H	38.02	20.65	33.10	71.12	53.75	74.00	54.00	X

Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (3) EUT Orthogonal Axes :
 "X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand



802.11g (DIPOLE) (Restricted Bands Requirements, Horizontal)





EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	16 °C	Relative Humidity :	57%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/20M (DIPOLE) (Vertical)		
Note :	<p>The emission of the carrier radiated field strength is measured for CH01/CH11 (Peak and AV) as following:</p> <ol style="list-style-type: none"> 1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH01). Then the field strength was measured at 2310-2390 MHz. 2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH11). Then the field strength was measured at 2483.5-2500 MHz. 		

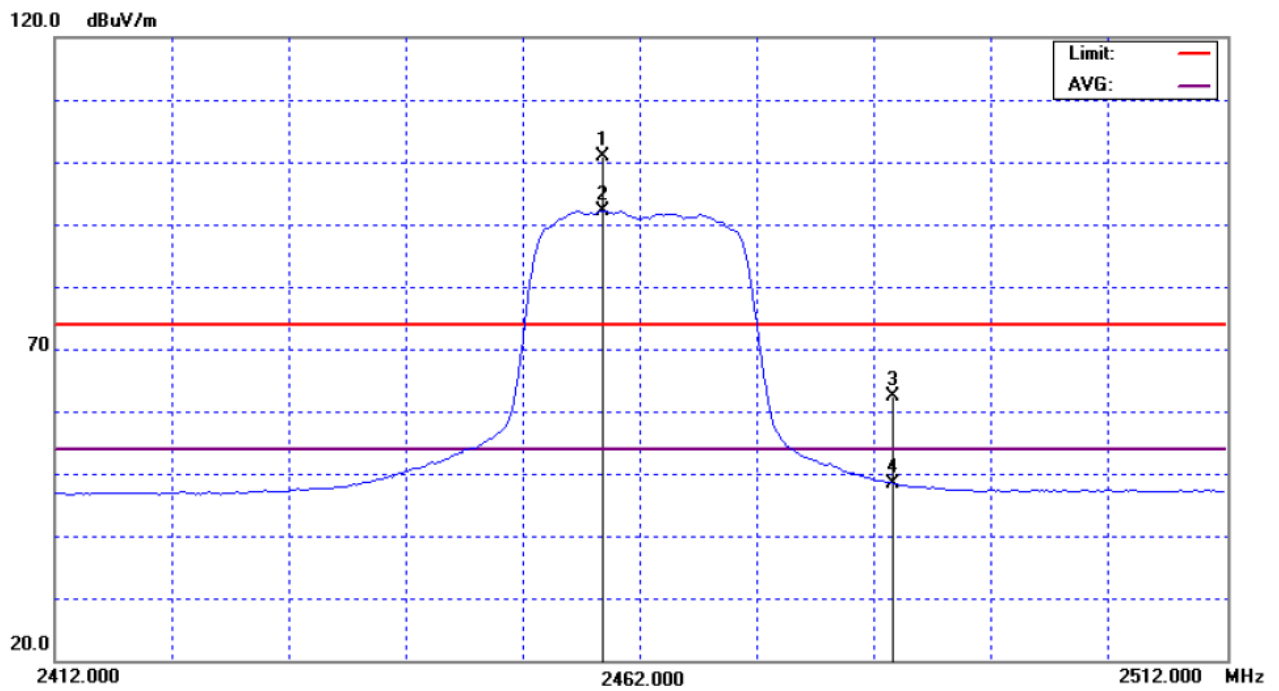
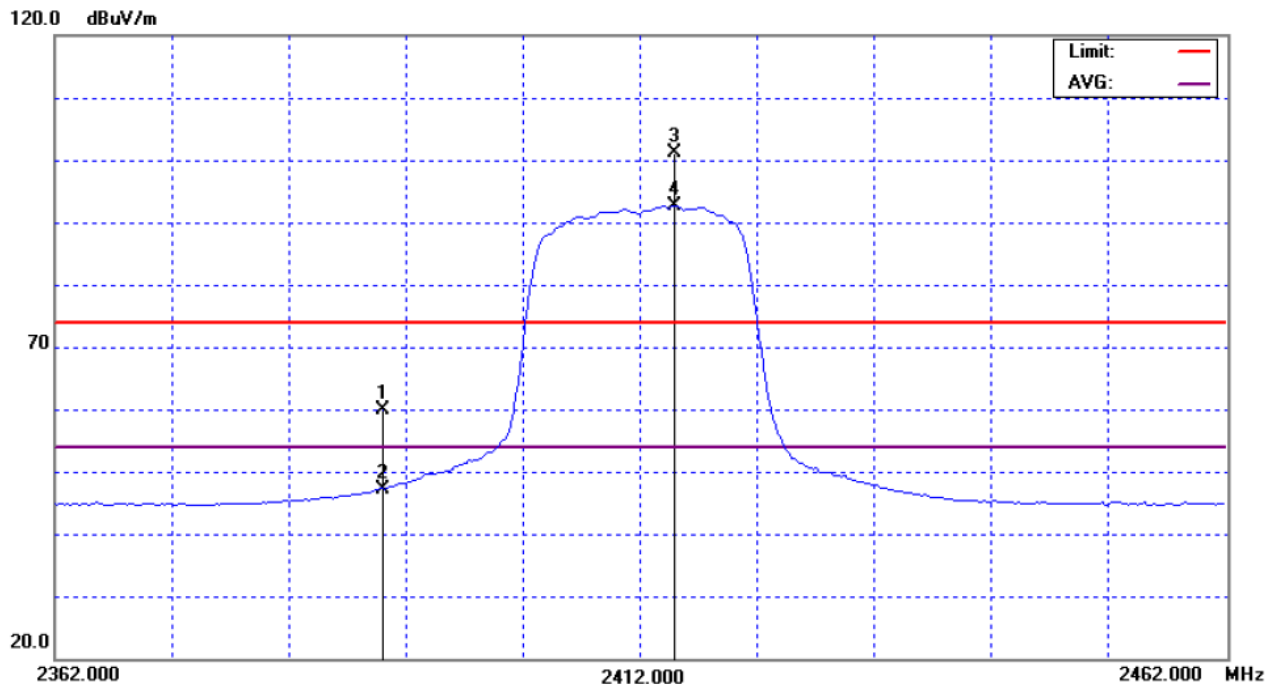
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	V	27.29	14.63	32.57	59.86	47.20	74.00	54.00	X
2483.50	V	29.34	15.23	33.10	62.44	48.33	74.00	54.00	X

Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (3) EUT Orthogonal Axes :
 "X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand



802.11n/20M (DIPOLE) (Restricted Bands Requirements, Vertical)





EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	16 °C	Relative Humidity :	57%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/20M (DIPOLE) (Horizontal)		
Note :	<p>The emission of the carrier radiated field strength is measured for CH01/CH11 (Peak and AV) as following:</p> <ol style="list-style-type: none"> 1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH01). Then the field strength was measured at 2310-2390 MHz. 2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH11). Then the field strength was measured at 2483.5-2500 MHz. 		

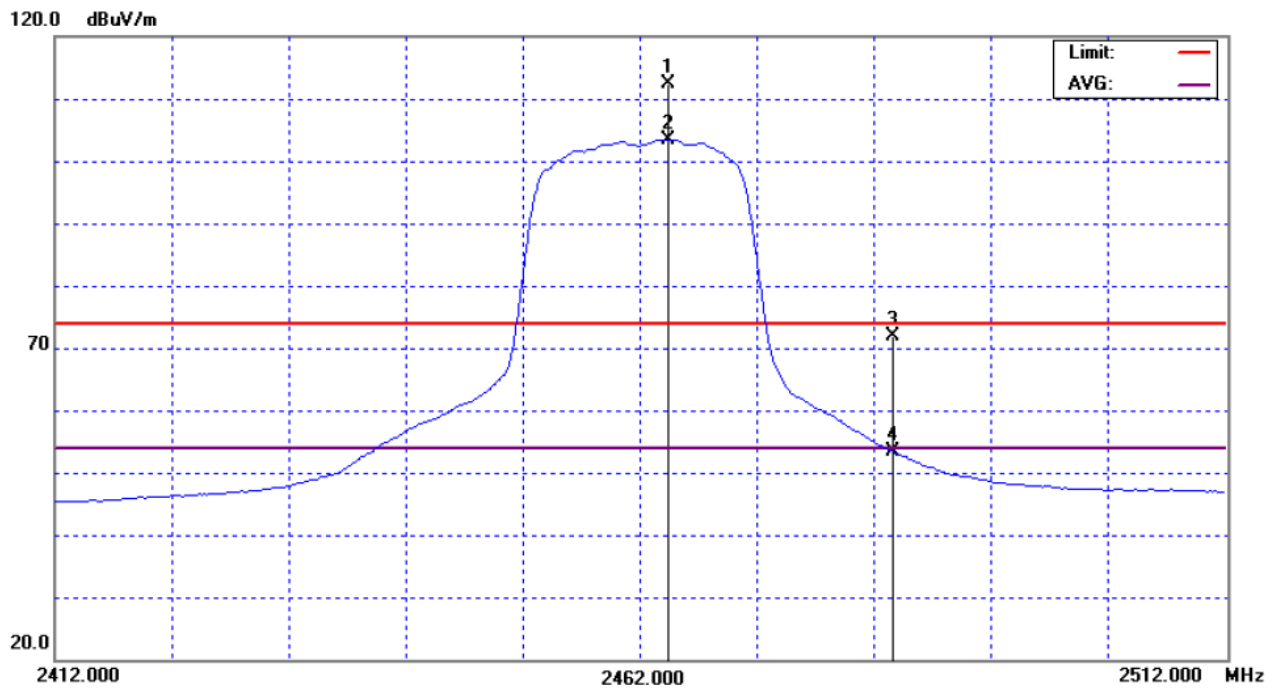
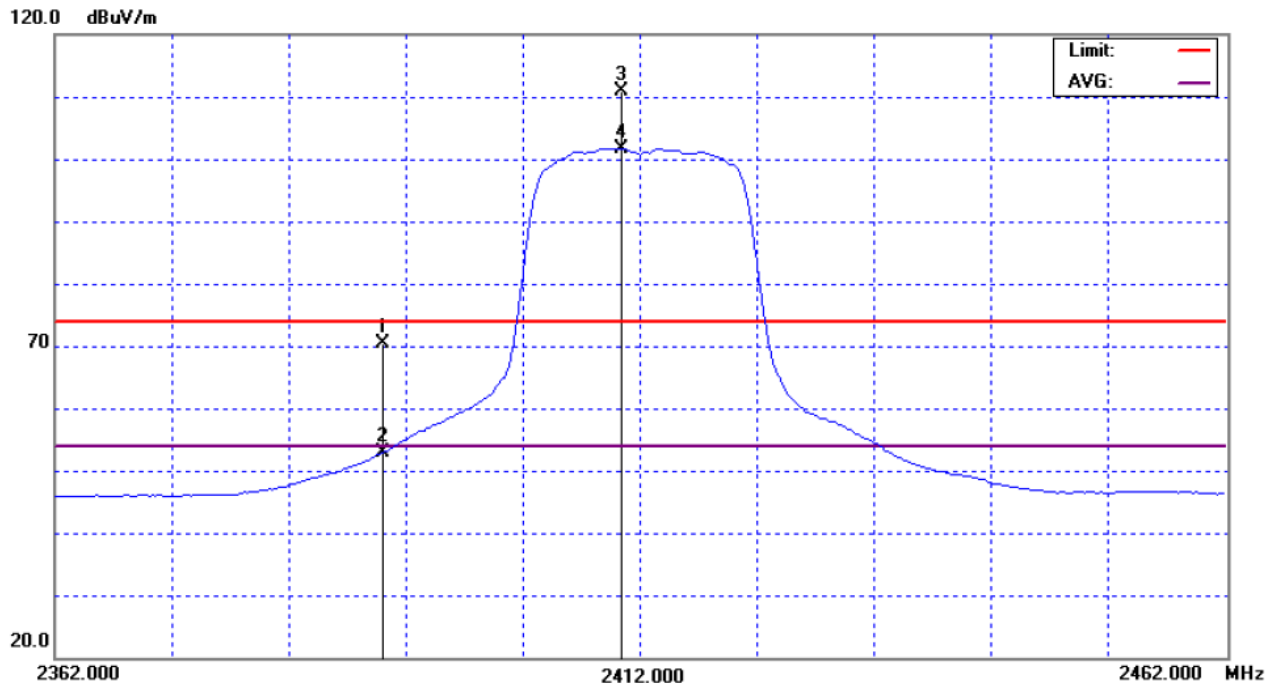
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	H	37.93	20.33	32.57	70.50	52.90	74.00	54.00	X
2483.50	H	38.79	20.25	33.10	71.89	53.35	74.00	54.00	X

Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (3) EUT Orthogonal Axes :
 "X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand



802.11n/20M (DIPOLE) (Restricted Bands Requirements, Horizontal)





EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	21 °C	Relative Humidity :	57%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/40M (DIPOLE) (Vertical)		
Note :	<p>The emission of the carrier radiated field strength is measured for CH03/CH09 (Peak and AV) as following:</p> <ol style="list-style-type: none"> 1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH03). Then the field strength was measured at 2310-2390 MHz. 2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH09). Then the field strength was measured at 2483.5-2500 MHz. 		

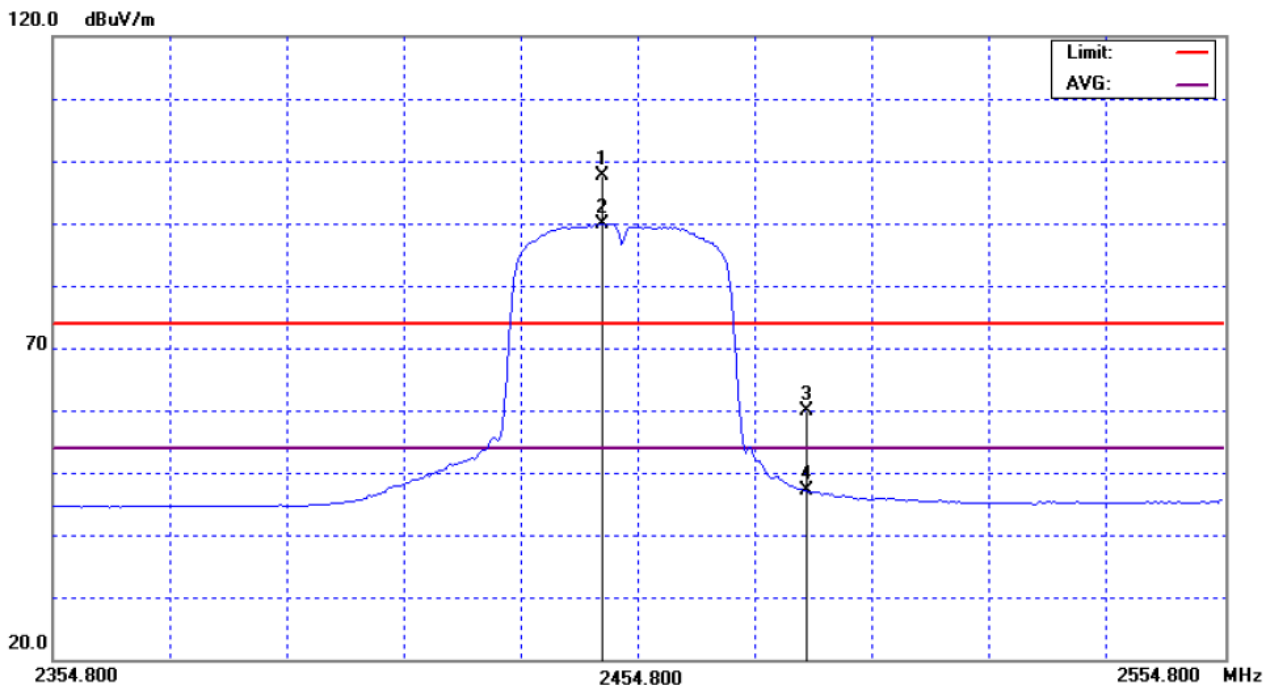
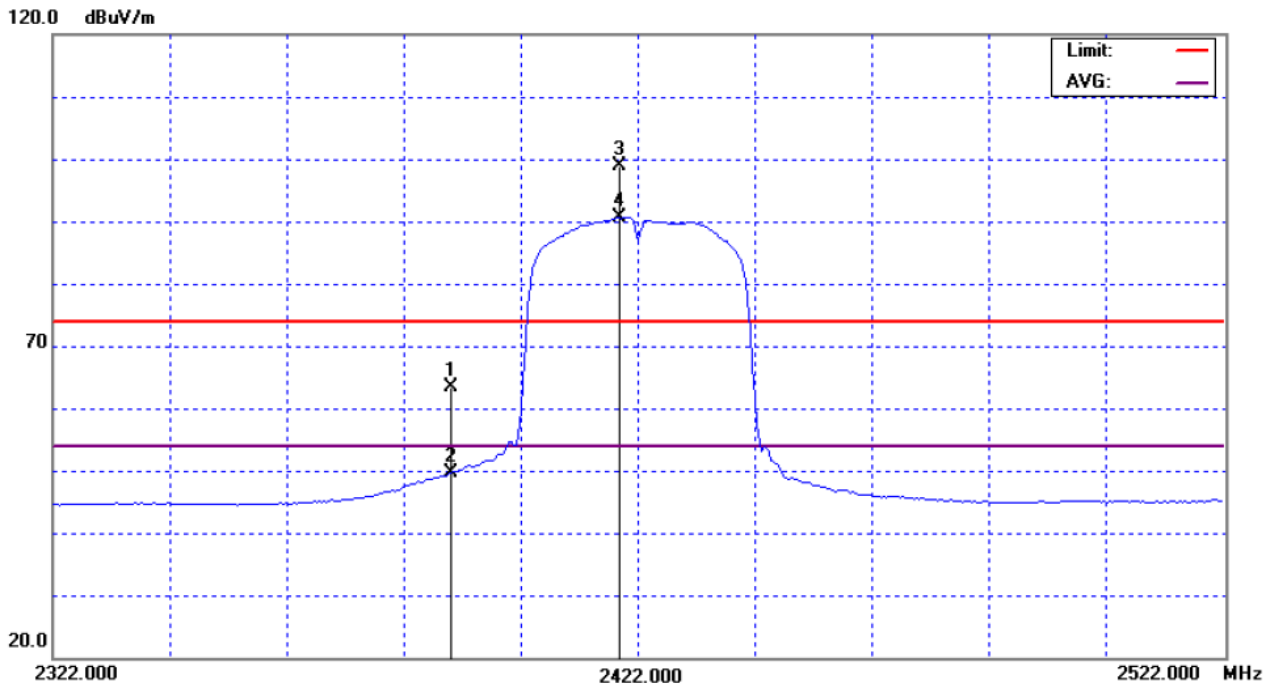
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	V	30.85	17.07	32.57	63.42	49.64	74.00	54.00	X
2483.50	V	26.67	14.11	33.10	59.77	47.21	74.00	54.00	X

Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (3) EUT Orthogonal Axes :
 "X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand



802.11n/40M (DIPOLE) (Restricted Bands Requirements, Vertical)





EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	21 °C	Relative Humidity :	57%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/40M (DIPOLE) (Horizontal)		
Note :	<p>The emission of the carrier radiated field strength is measured for CH01/CH11 (Peak and AV) as following:</p> <ol style="list-style-type: none"> 1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH01). Then the field strength was measured at 2310-2390 MHz. 2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH11). Then the field strength was measured at 2483.5-2500 MHz. 		

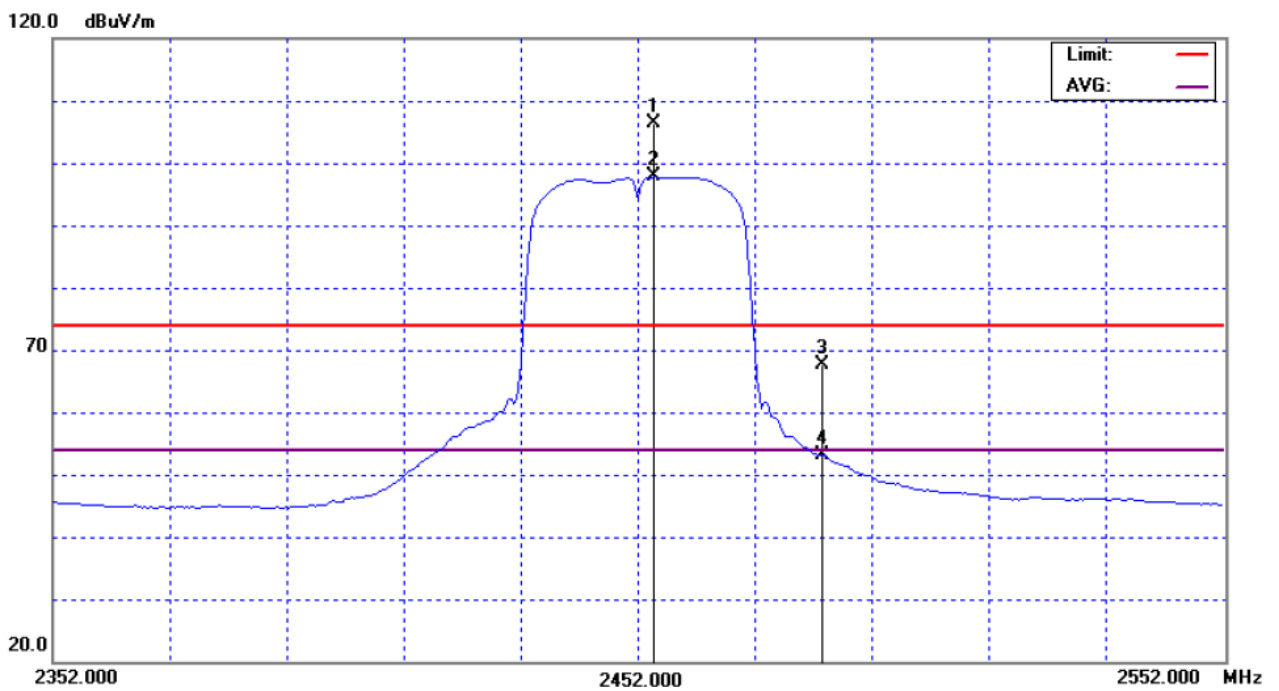
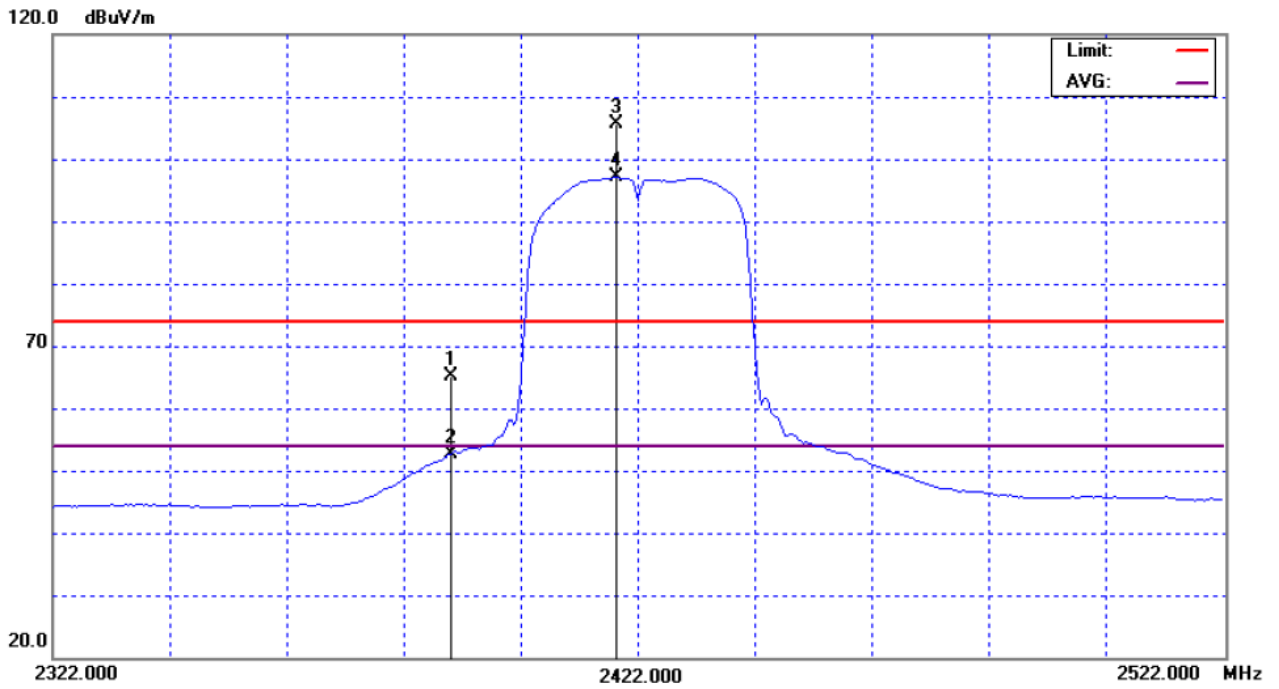
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	H	32.68	19.94	32.57	65.25	52.51	74.00	54.00	X
2483.50	H	34.47	19.97	33.10	67.57	53.07	74.00	54.00	X

Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (3) EUT Orthogonal Axes :
 "X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand



802.11n/40M (DIPOLE) (Restricted Bands Requirements, Horizontal)





5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES / LIMIT

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

5.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-30	100854	Apr. 14, 2009

Remark: " N/A" denotes No Model Name , Serial No. or No Calibration specified.

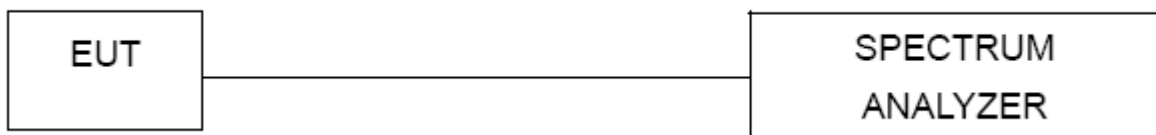
5.1.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting : RBW= 100KHz, VBW=100KHz, Sweep time = Auto.

5.1.3 DEVIATION FROM STANDARD

No deviation.

5.1.4 TEST SETUP



5.1.5 EUT OPERATION CONDITIONS

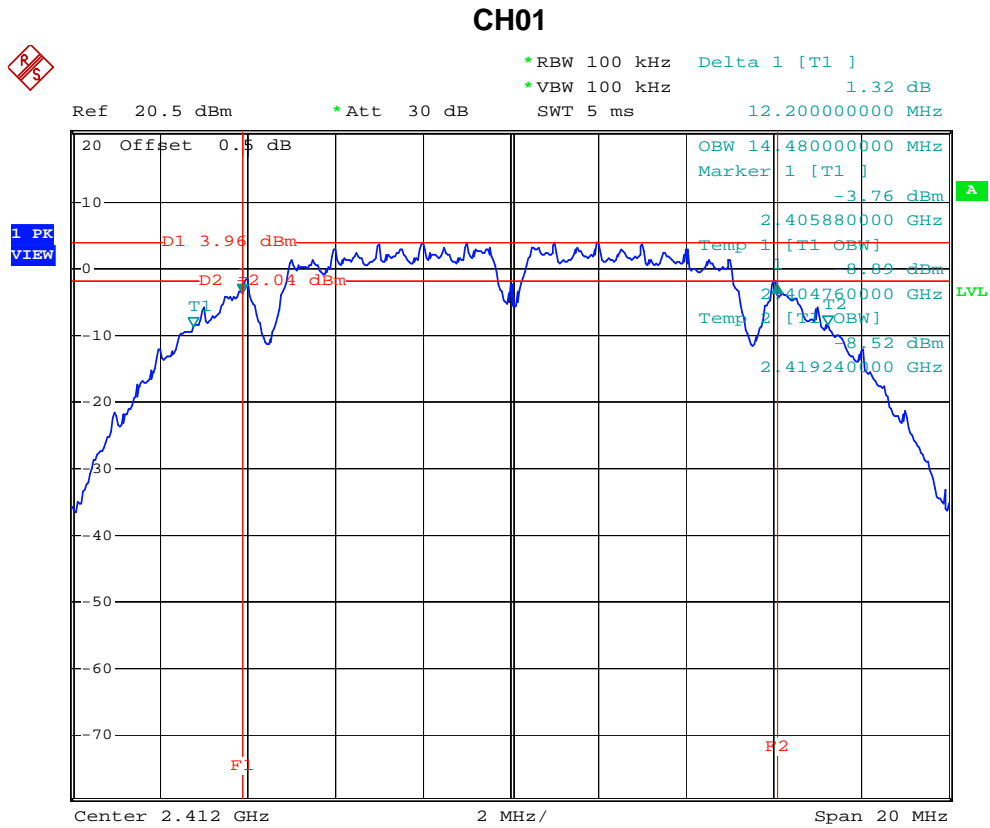
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.
Chip antenna measurement result.



5.1.6 TEST RESULTS

EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	17 °C	Relative Humidity :	89 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b CH01, CH06, CH11		

Test Channel	Frequency (MHz)	Bandwidth (MHz)	LIMIT (MHz)
CH01	2412	12.20	>=500KHz
CH06	2437	12.16	>=500KHz
CH11	2462	12.16	>=500KHz

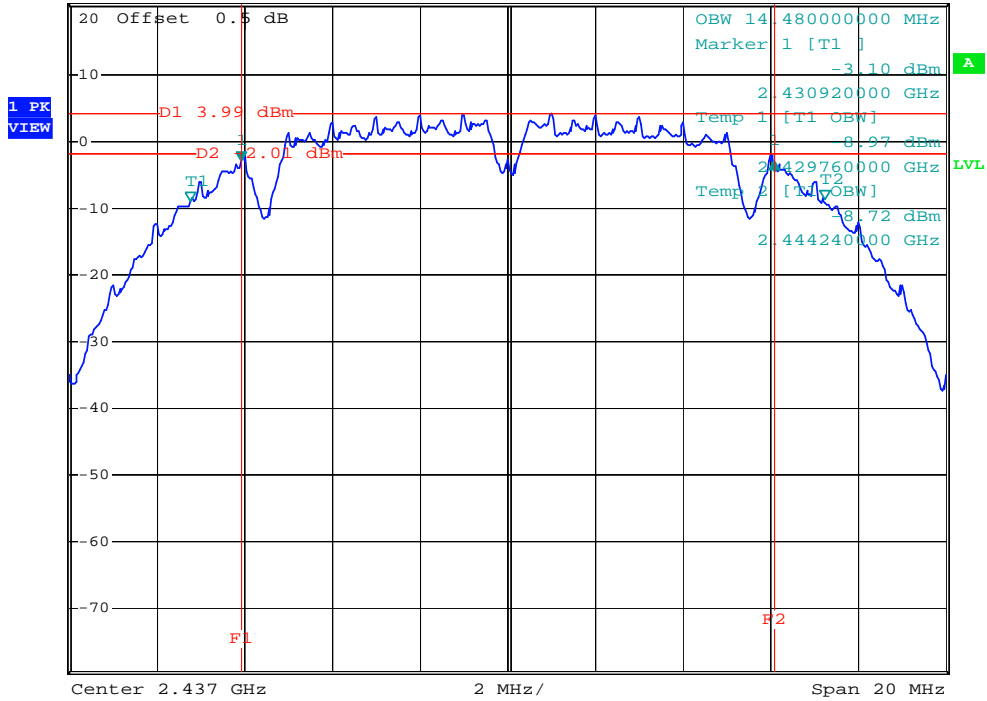




CH06



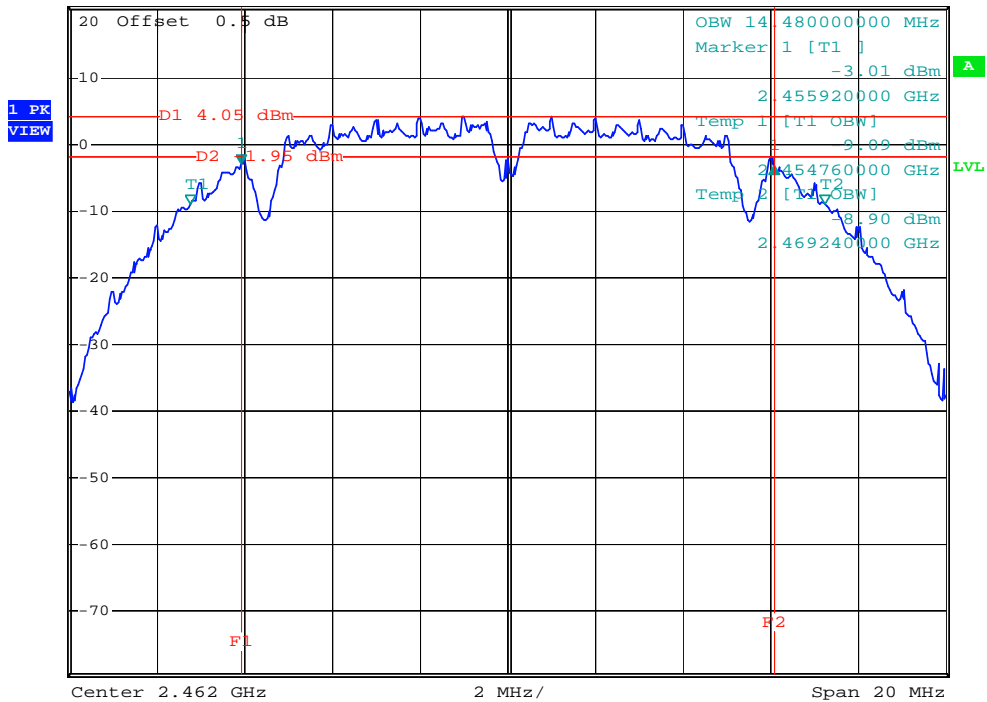
*RBW 100 kHz Delta 1 [T1]
*VBW 100 kHz -0.00 dB
Ref 20.5 dBm *Att 30 dB SWT 5 ms 12.160000000 MHz



CH11



*RBW 100 kHz Delta 1 [T1]
*VBW 100 kHz -0.35 dB
Ref 20.5 dBm *Att 30 dB SWT 5 ms 12.160000000 MHz

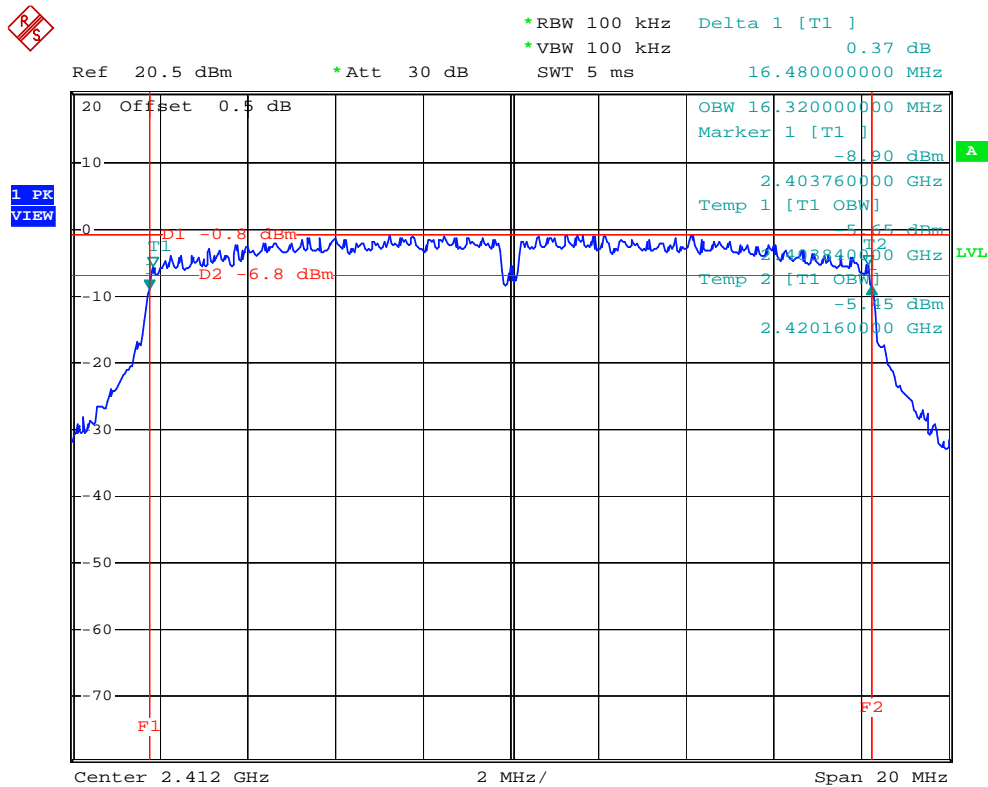




EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	17 °C	Relative Humidity :	89 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11g CH01, CH06, CH11		

Test Channel	Frequency (MHz)	Bandwidth (MHz)	LIMIT (MHz)
CH01	2412	16.48	>=500KHz
CH06	2437	16.44	>=500KHz
CH11	2462	16.48	>=500KHz

CH01

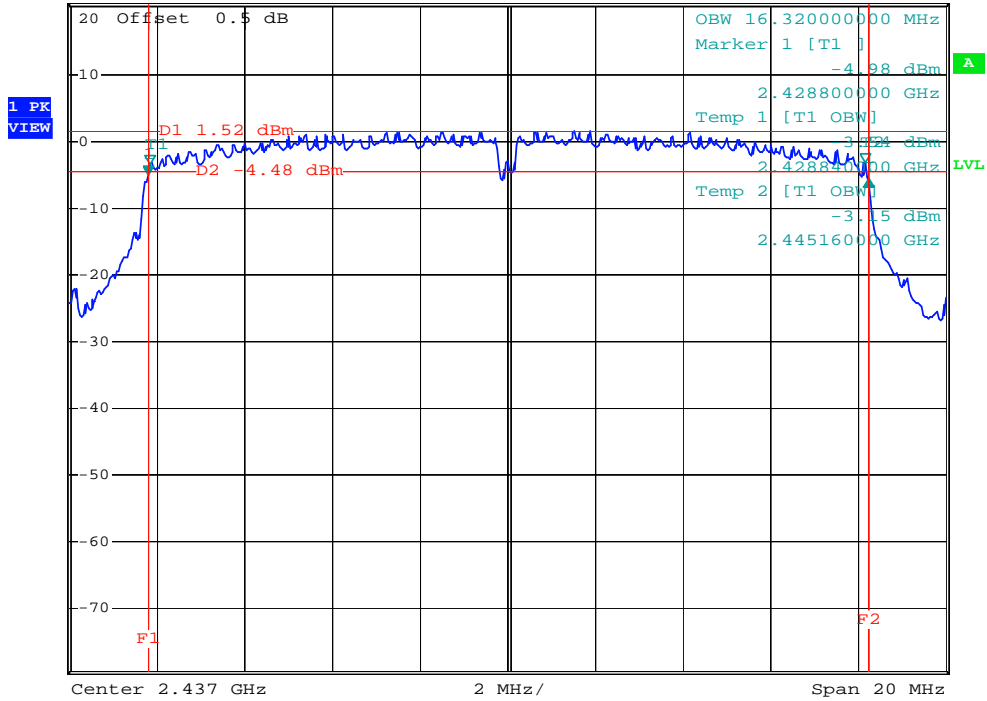




CH06



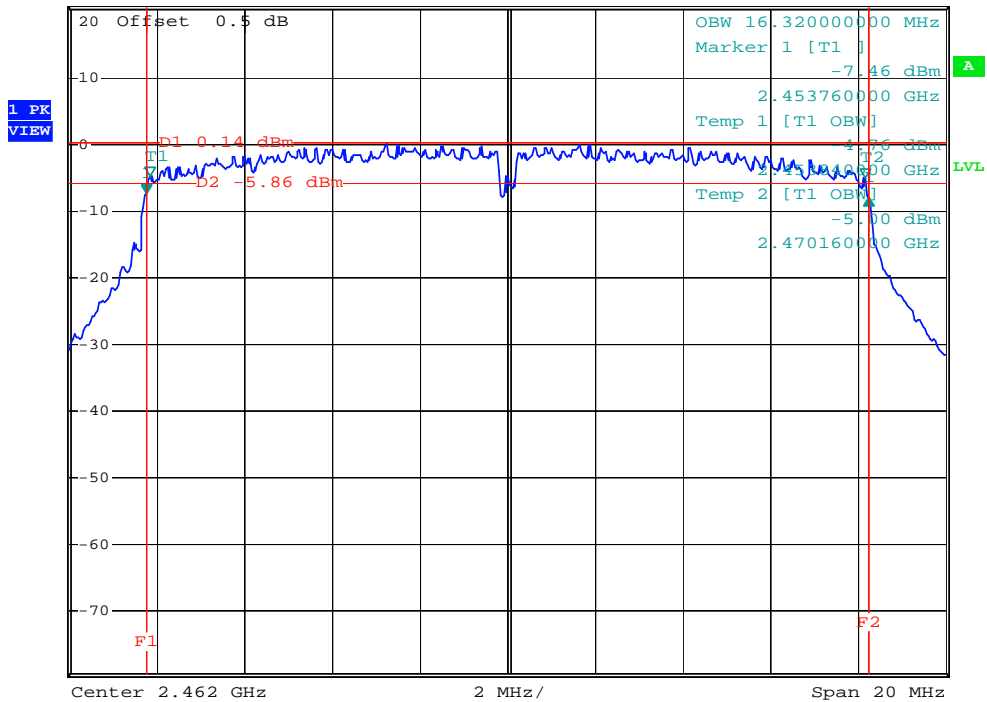
*RBW 100 kHz Delta 1 [T1]
 *VBW 100 kHz -0.71 dB
 Ref 20.5 dBm *Att 30 dB SWT 5 ms 16.440000000 MHz



CH11



*RBW 100 kHz Delta 1 [T1]
 *VBW 100 kHz -0.65 dB
 Ref 20.5 dBm *Att 30 dB SWT 5 ms 16.480000000 MHz

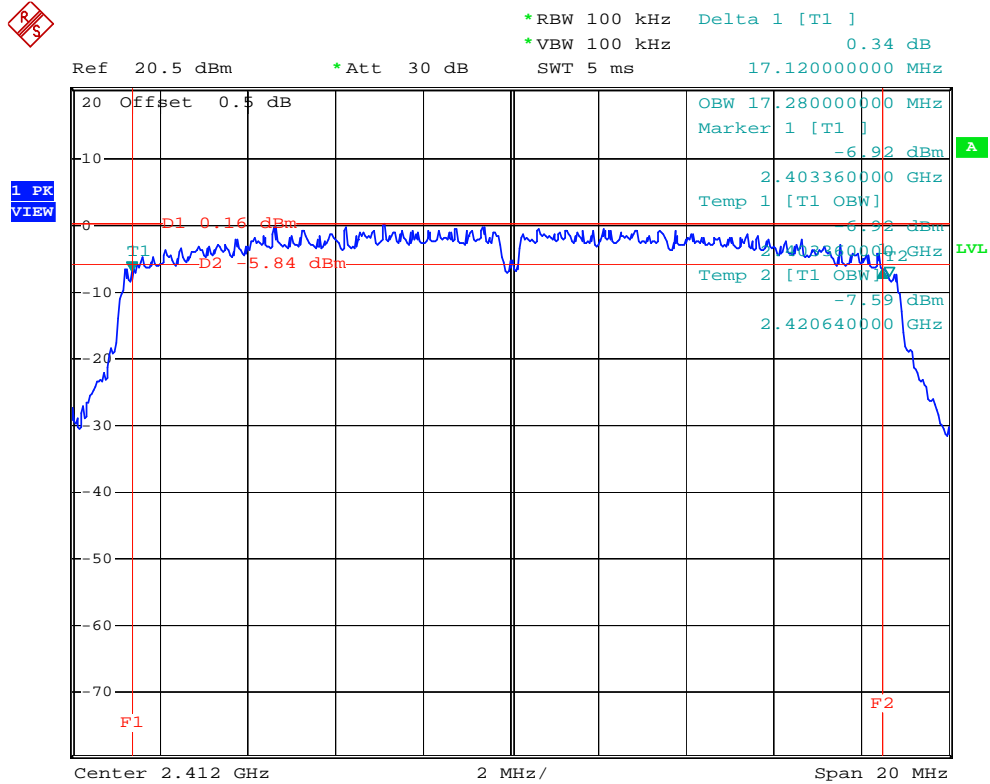




EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	17 °C	Relative Humidity :	89 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/20M CH01, CH06, CH11		

Test Channel	Frequency (MHz)	Bandwidth (MHz)	LIMIT (MHz)
CH01	2412	17.12	>=500KHz
CH06	2437	17.36	>=500KHz
CH11	2462	17.08	>=500KHz

CH01

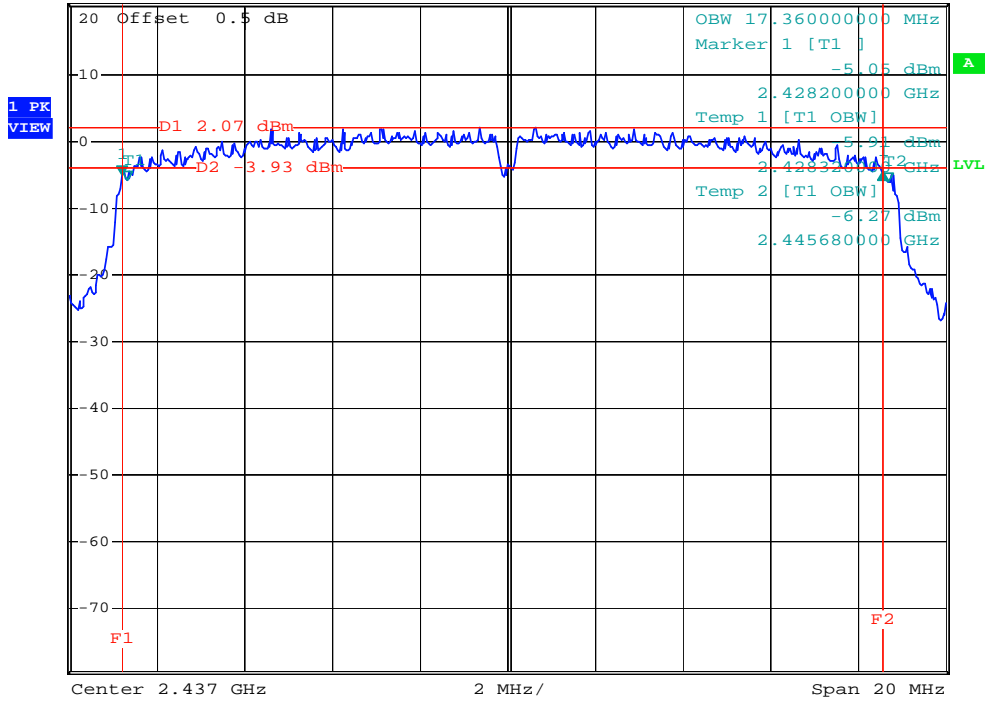




CH06



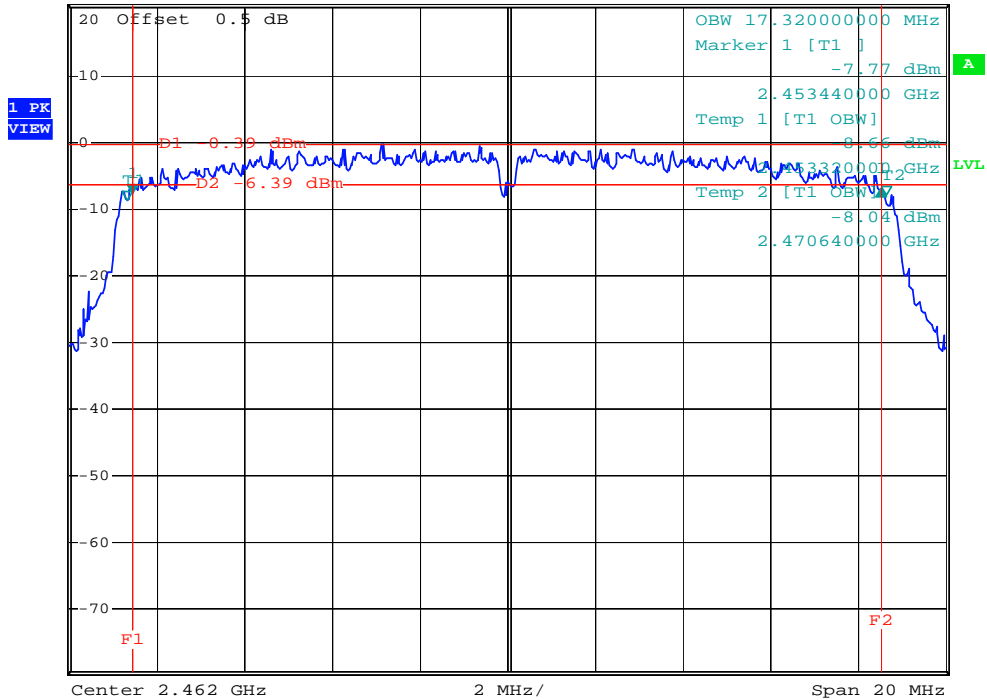
*RBW 100 kHz Delta 1 [T1]
*VBW 100 kHz 0.54 dB
Ref 20.5 dBm *Att 30 dB SWT 5 ms 17.360000000 MHz



CH11



*RBW 100 kHz Delta 1 [T1]
*VBW 100 kHz 0.73 dB
Ref 20.5 dBm *Att 30 dB SWT 5 ms 17.080000000 MHz

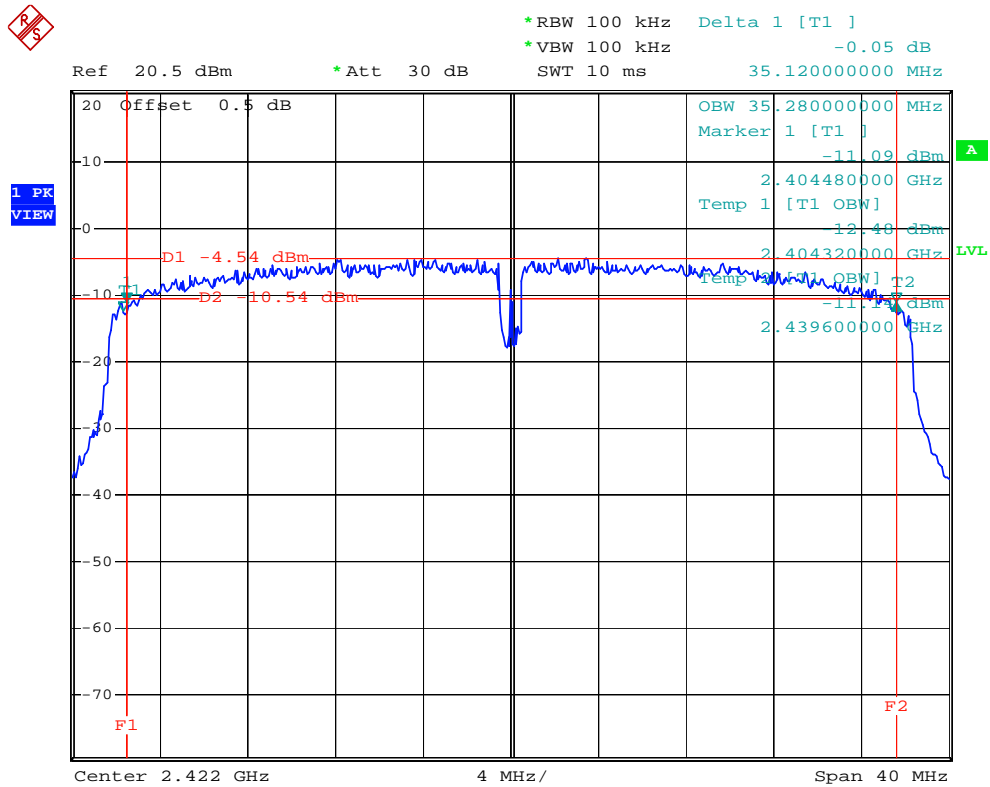




EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	17 °C	Relative Humidity :	89 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/40M CH03, CH06, CH09		

Test Channel	Frequency (MHz)	Bandwidth (MHz)	LIMIT (MHz)
CH03	2422	35.12	>=500KHz
CH06	2437	35.12	>=500KHz
CH09	2452	34.16	>=500KHz

CH03



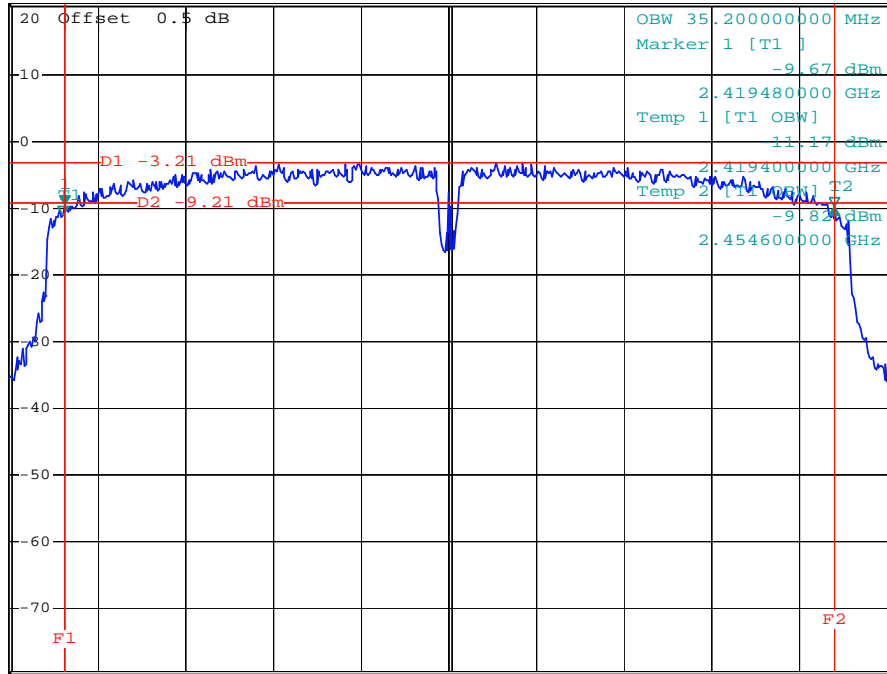


CH06



*RBW 100 kHz Delta 1 [T1]
*VBW 100 kHz -0.15 dB
Ref 20.5 dBm *Att 30 dB SWT 10 ms 35.120000000 MHz

1 PK VIEW



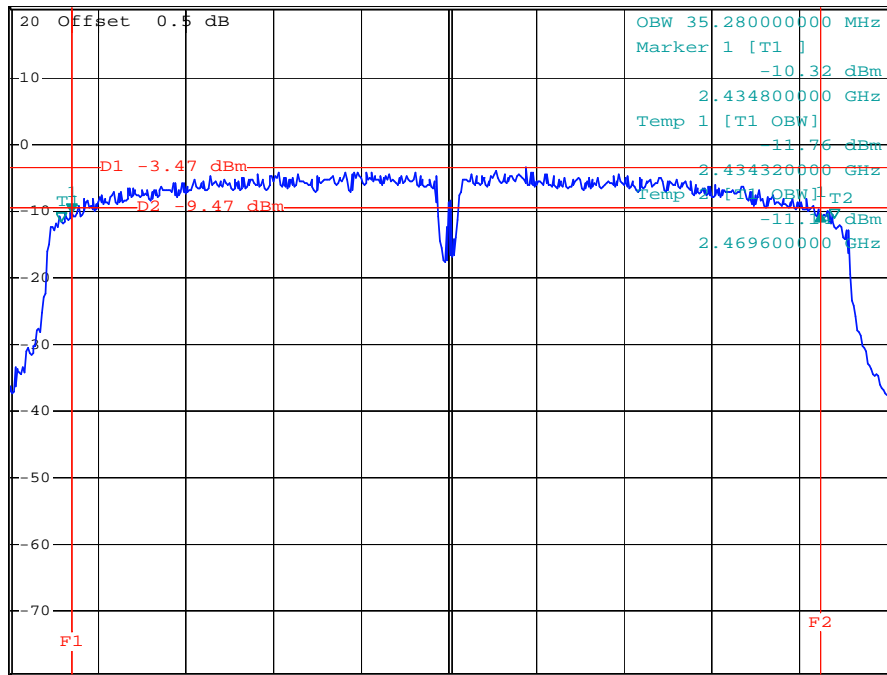
Center 2.437 GHz 4 MHz/ Span 40 MHz

CH09



*RBW 100 kHz Delta 1 [T1]
*VBW 100 kHz -0.05 dB
Ref 20.5 dBm *Att 30 dB SWT 10 ms 34.160000000 MHz

1 PK VIEW



Center 2.452 GHz 4 MHz/ Span 40 MHz



6. PEAK OUTPUT POWER TEST

6.1 APPLIED PROCEDURES / LIMIT

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

6.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power Meter	Anritsu	ML2487A	6K00004714	Feb. 12, 2009
2	Power Meter Sensor	Anritsu	MA2491A	34138	Feb. 12, 2009

Remark: " N/A" denotes No Model Name , Serial No. or No Calibration specified.

6.1.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting : RBW= 1MHz, VBW= 1MHz, Sweep time = Auto.

6.1.3 DEVIATION FROM STANDARD

No deviation.

6.1.4 TEST SETUP



6.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.
Chip antenna measurement result.



6.1.6 TEST RESULTS

EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	17 °C	Relative Humidity :	89 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b /CH01, CH06, CH11		

Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH01	2412	18.92	30	1
CH06	2437	18.95	30	1
CH11	2462	18.88	30	1

EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	17 °C	Relative Humidity :	89 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11g /CH01, CH06, CH11		

Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH01	2412	22.10	30	1
CH06	2437	22.71	30	1
CH11	2462	22.30	30	1



EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	17 °C	Relative Humidity :	89 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n 20M/CH01, CH06, CH11		

Test Channel	Frequency (MHz)	Peak Output Power		LIMIT (dBm)	LIMIT (W)
		(dBm)	(W)		
CH01	2412	21.76	0.1500	30	1
CH06	2437	22.85	0.1928	30	1
CH11	2462	21.46	0.1400	30	1

EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	17 °C	Relative Humidity :	89 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/40M (CHIP)/CH03, CH06, CH09		

Test Channel	Frequency (MHz)	Peak Output Power		LIMIT (dBm)	LIMIT (W)
		(dBm)	(W)		
CH03	2422	21.03	0.1268	30	1
CH06	2437	21.88	0.1542	30	1
CH09	2452	21.51	0.1416	30	1

Remark :

- (1) **The SISO test requirement, RF conducted output power shall measure each transmitter chain by using channel power method.
And after obtain each individual transmitter chain power, then sum the output power by using the following formula:
((dBm/Chain 1)/10[^]Log) + ((dBm/Chain 2)/10[^]log) + ((dBm/ChainN)/10[^]log) =
Combined peak output power in mW.**
- (2) **CHIP Antenna Gain=2.70dBi ; DIPOLE Antenna Gain=2.13dBi ; PIFA Antenna Gain=1.81dBi.**



7. ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart C			
Test Item	Limit	Frequency Range (MHz)	Result
Antenna conducted Spurious Emission	20dB less than the peak value of fundamental frequency	30-25000	PASS

7.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-30	100854	Apr. 14, 2009

Remark: " N/A" denotes No Model Name , Serial No. or No Calibration specified.

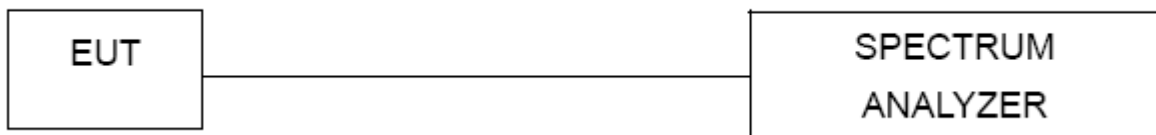
7.1.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting : RBW= 100KHz, VBW=100KHz, Sweep time = Auto.

7.1.3 DEVIATION FROM STANDARD

No deviation.

7.1.4 TEST SETUP



7.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.
Chip antenna measurement result.

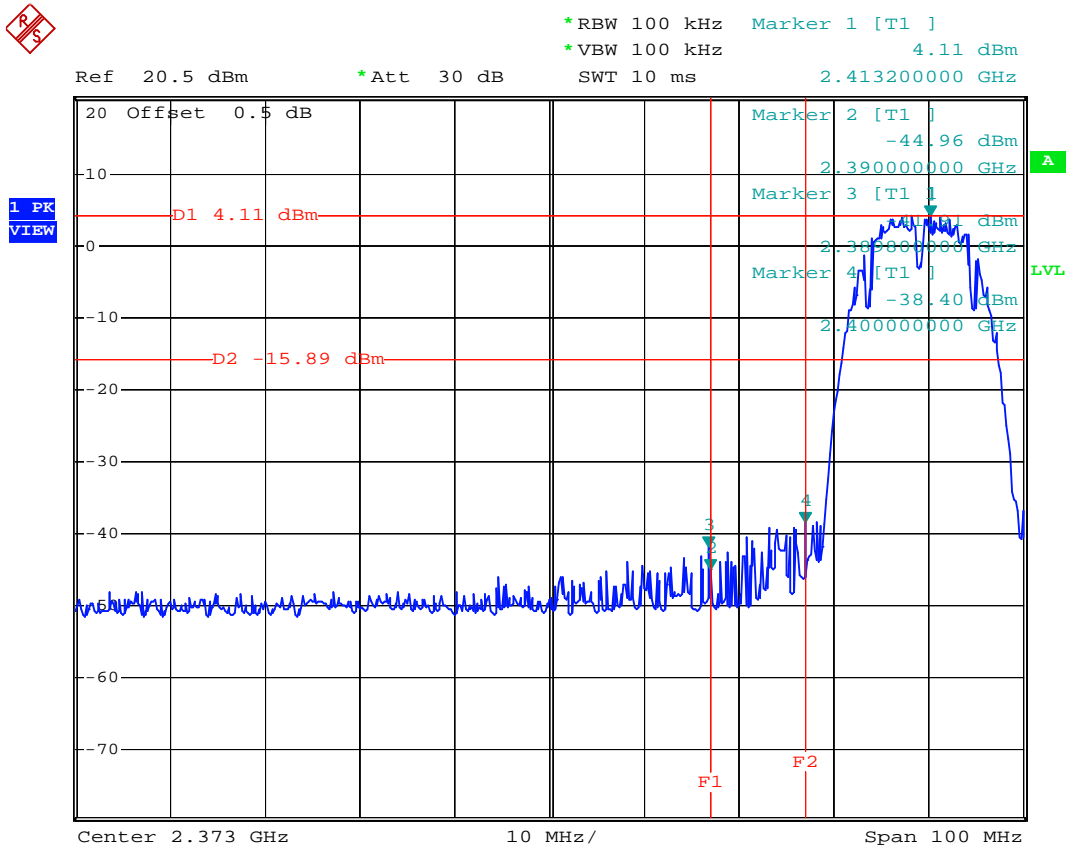


7.1.6 TEST RESULTS

EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	17 °C	Relative Humidity :	89 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b CH01, CH11		

Channel of Worst Data: CH1,CH11			
The max. radio frequency power in any 100kHz bandwidth outside the frequency band		The max. radio frequency power in any 100 kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
2389.8	-41.91	2484.9	-42.90
Result			
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.			

CH01





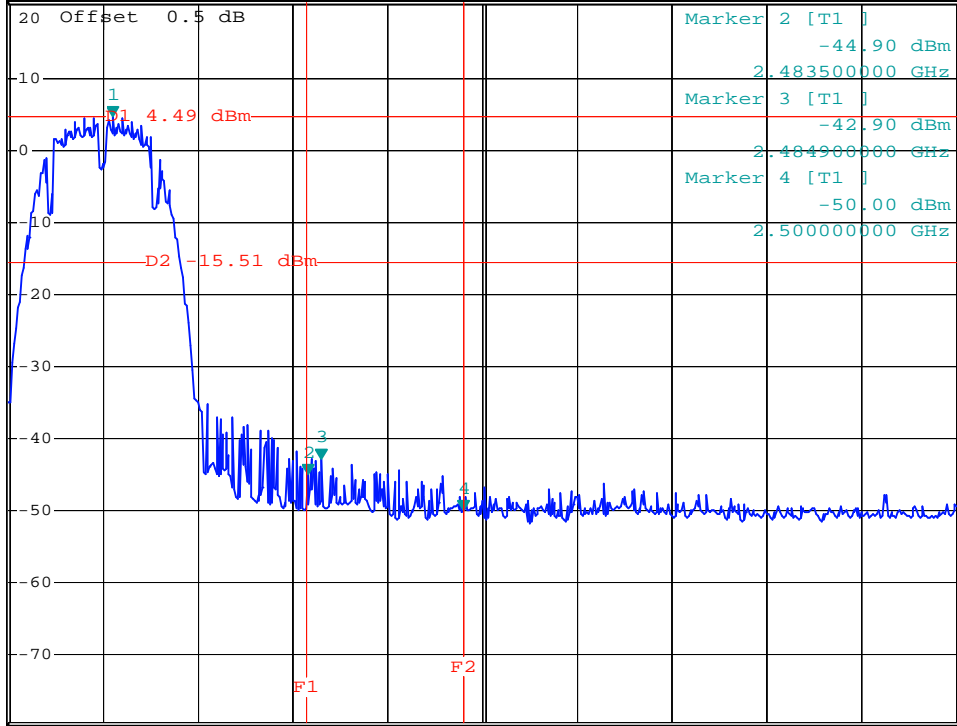
CH11



*RBW 100 kHz Marker 1 [T1]
*VBW 100 kHz 4.49 dBm
SWT 10 ms 2.463000000 GHz

Ref 20.5 dBm *Att 30 dB

1 PK VIEW



Center 2.502 GHz 10 MHz/ Span 100 MHz



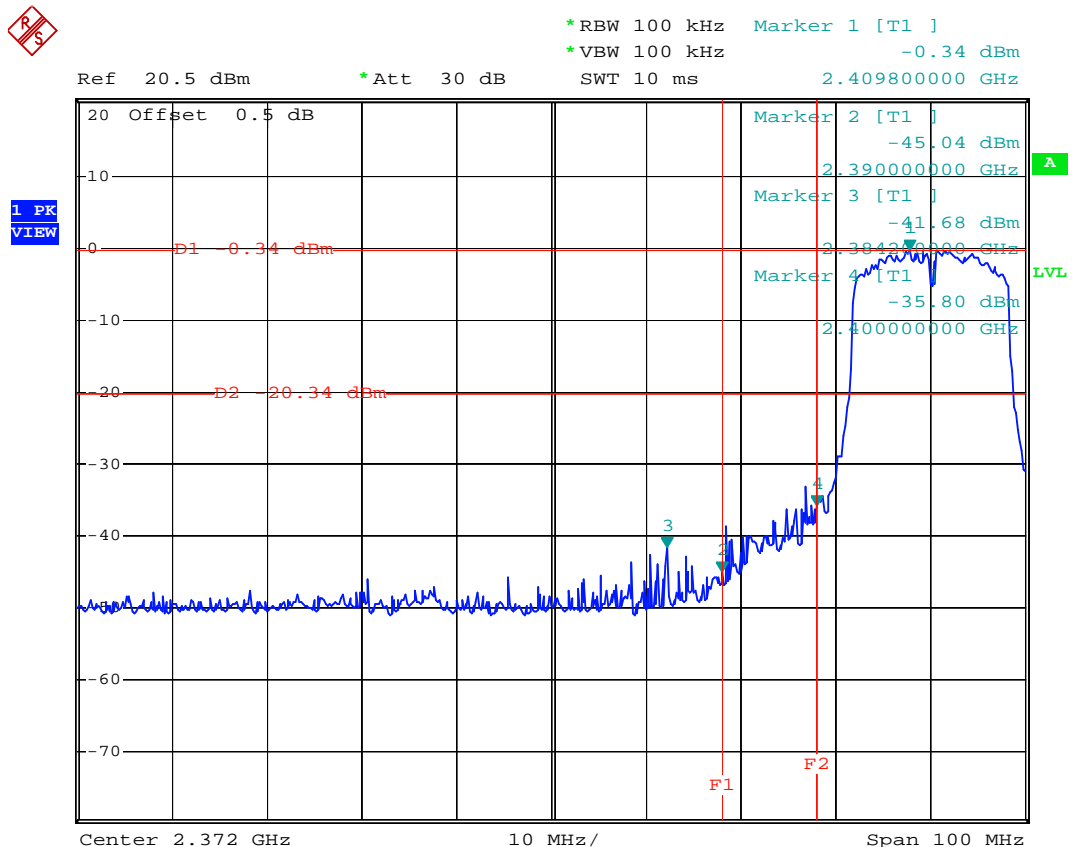
EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	17 °C	Relative Humidity :	89 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11g CH01, CH11		

Channel of Worst Data: CH1,CH11			
The max. radio frequency power in any 100kHz bandwidth outside the frequency band		The max. radio frequency power in any 100 kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
2384.2	-41.68	2484.7	-42.84

Result

In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.

CH01





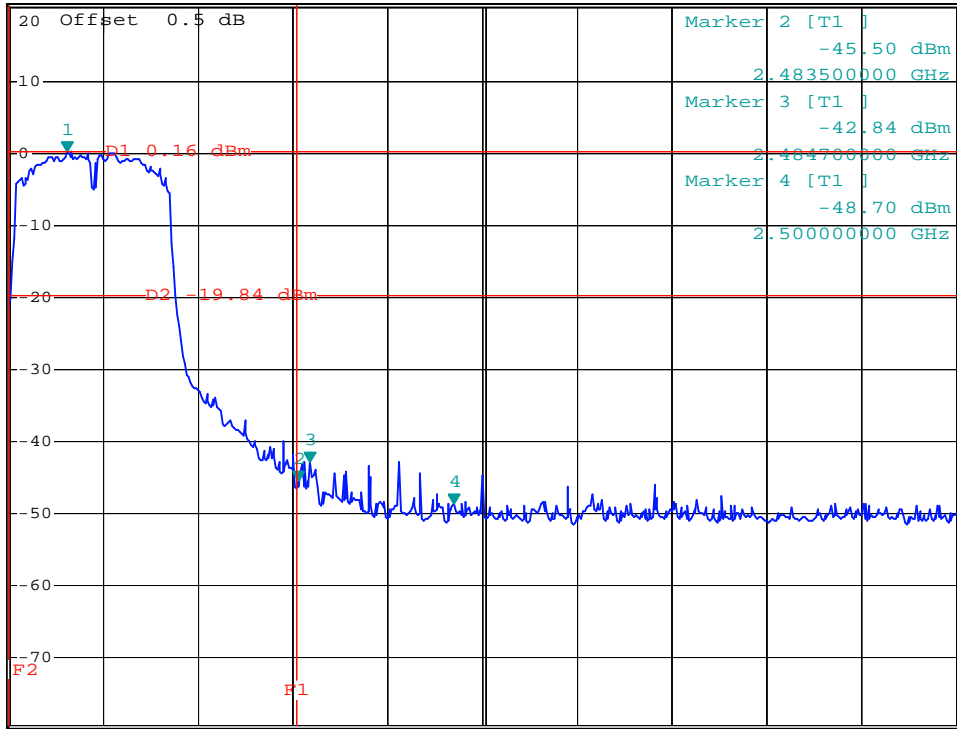
CH11



*RBW 100 kHz Marker 1 [T1]
*VBW 100 kHz 0.16 dBm
SWT 10 ms 2.459200000 GHz

Ref 20.5 dBm *Att 30 dB

1 PK VIEW



Center 2.503 GHz 10 MHz/ Span 100 MHz



EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	17 °C	Relative Humidity :	89 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/20M CH01, CH11		

Channel of Worst Data: CH1,CH11			
The max. radio frequency power in any 100kHz bandwidth outside the frequency band		The max. radio frequency power in any 100 kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
2384.6	-40.64	2488.9	-41.96

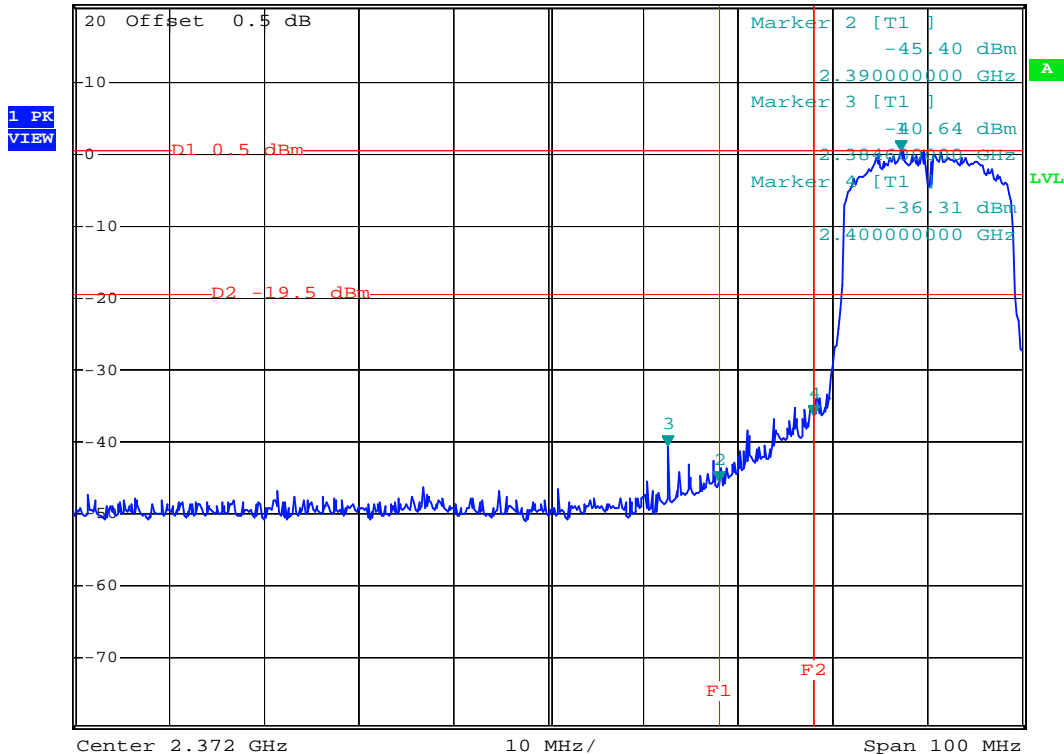
Result

In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.

CH01



*RBW 100 kHz Marker 1 [T1]
 *VBW 100 kHz 0.50 dBm
 Ref 20.5 dBm *Att 30 dB SWT 10 ms 2.409200000 GHz





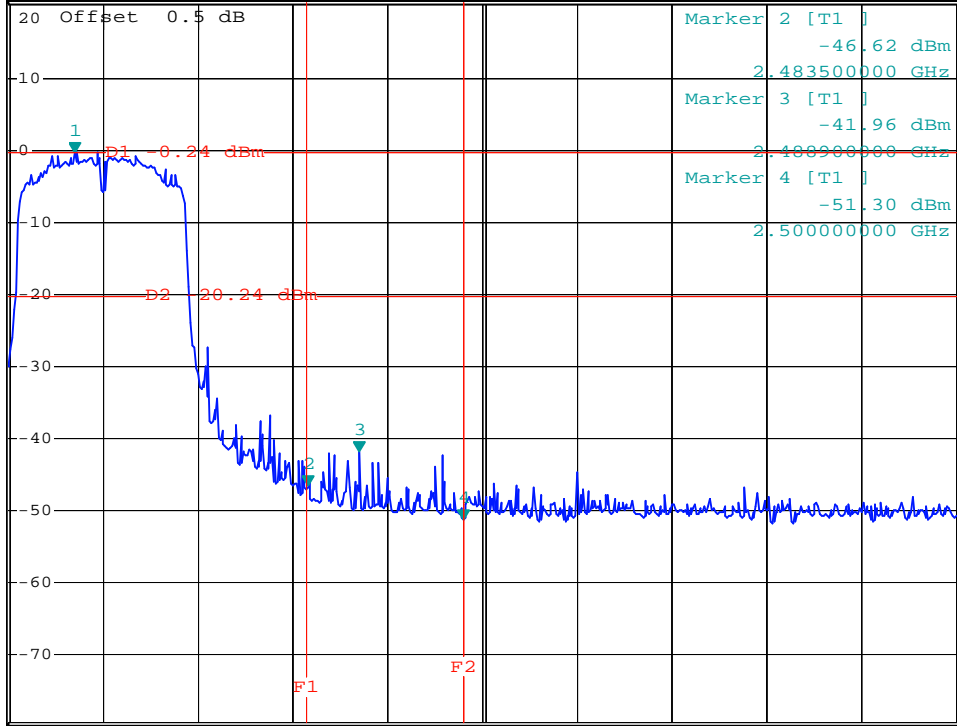
CH11



*RBW 100 kHz Marker 1 [T1]
 *VBW 100 kHz -0.24 dBm
 SWT 10 ms 2.459000000 GHz

Ref 20.5 dBm *Att 30 dB

1 PK VIEW



Center 2.502 GHz 10 MHz/ Span 100 MHz



EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	17 °C	Relative Humidity :	89 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/40M CH03, CH09		

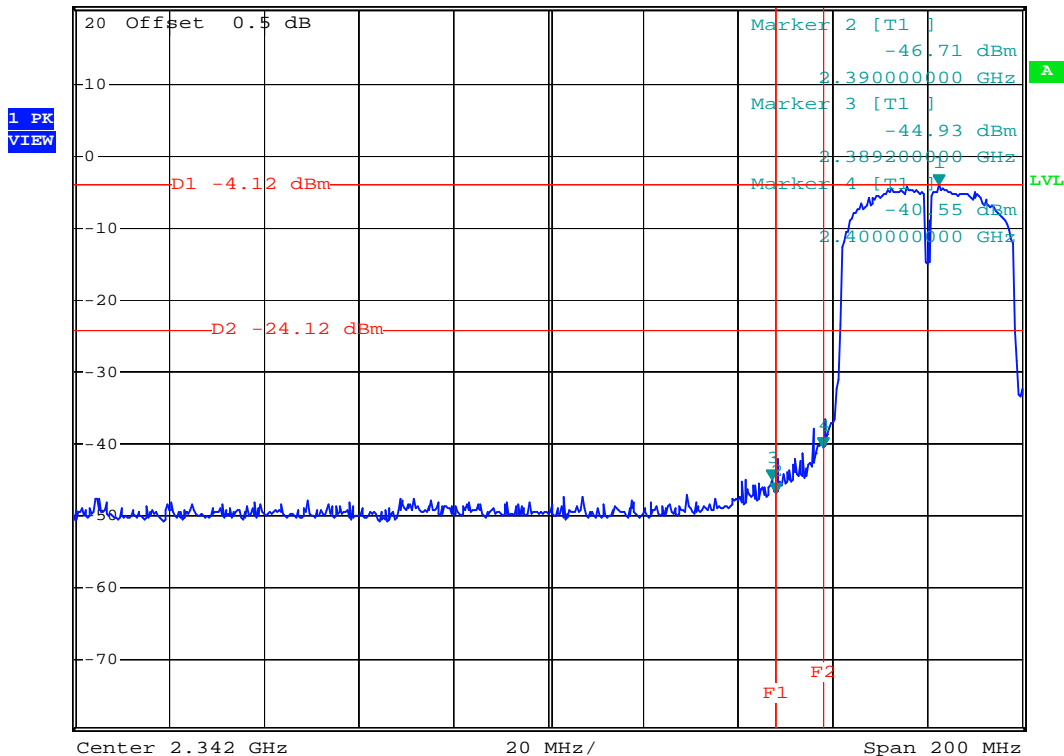
Channel of Worst Data: CH1,CH11			
The max. radio frequency power in any 100kHz bandwidth outside the frequency band		The max. radio frequency power in any 100 kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
2389.2	-44.93	2484.7	-43.18
Result			
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.			

CH03



*RBW 100 kHz Marker 1 [T1] -4.12 dBm
 *VBW 100 kHz 2.424400000 GHz

Ref 20.5 dBm *Att 30 dB SWT 20 ms





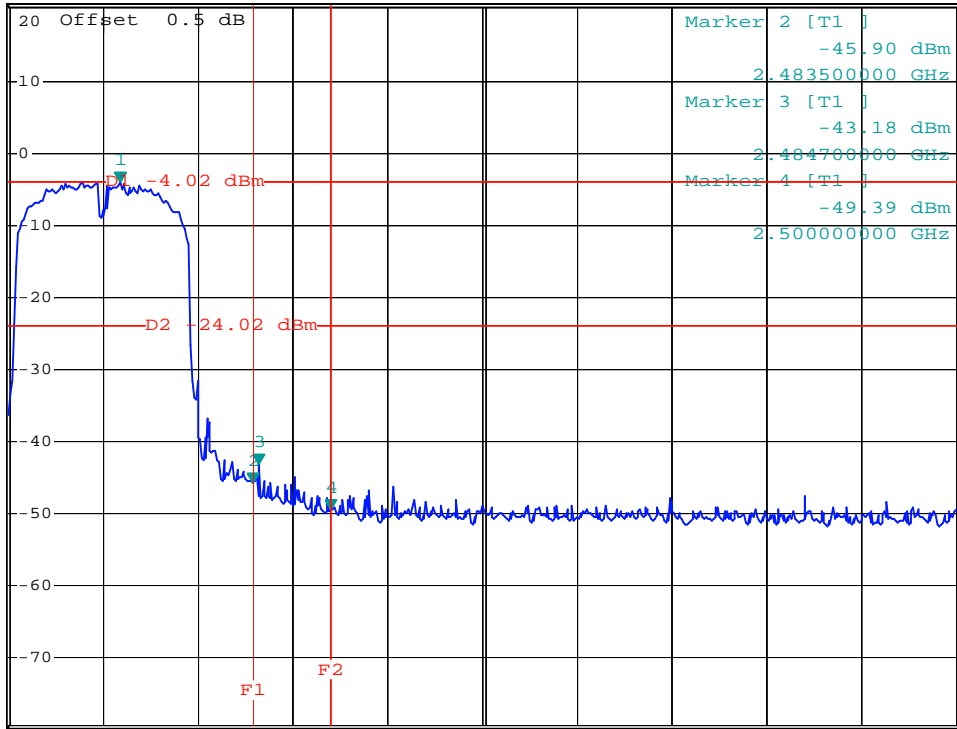
CH09



*RBW 100 kHz Marker 1 [T1]
*VBW 100 kHz -4.02 dBm
SWT 20 ms 2.455600000 GHz

Ref 20.5 dBm *Att 30 dB

1 PK
VIEW



Center 2.532 GHz 20 MHz/ Span 200 MHz



8. POWER SPECTRAL DENSITY TEST

8.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart C			
Test Item	Limit	Frequency Range (MHz)	Result
Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS

8.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-30	100854	Apr. 14, 2009

Remark: " N/A" denotes No Model Name, Serial No. or No Calibration specified.

8.1.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting : RBW=3KHz, VBW=30KHz, Sweep time = 500s.

8.1.3 DEVIATION FROM STANDARD

No deviation.

8.1.4 TEST SETUP



8.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.
Chip antenna measurement result.

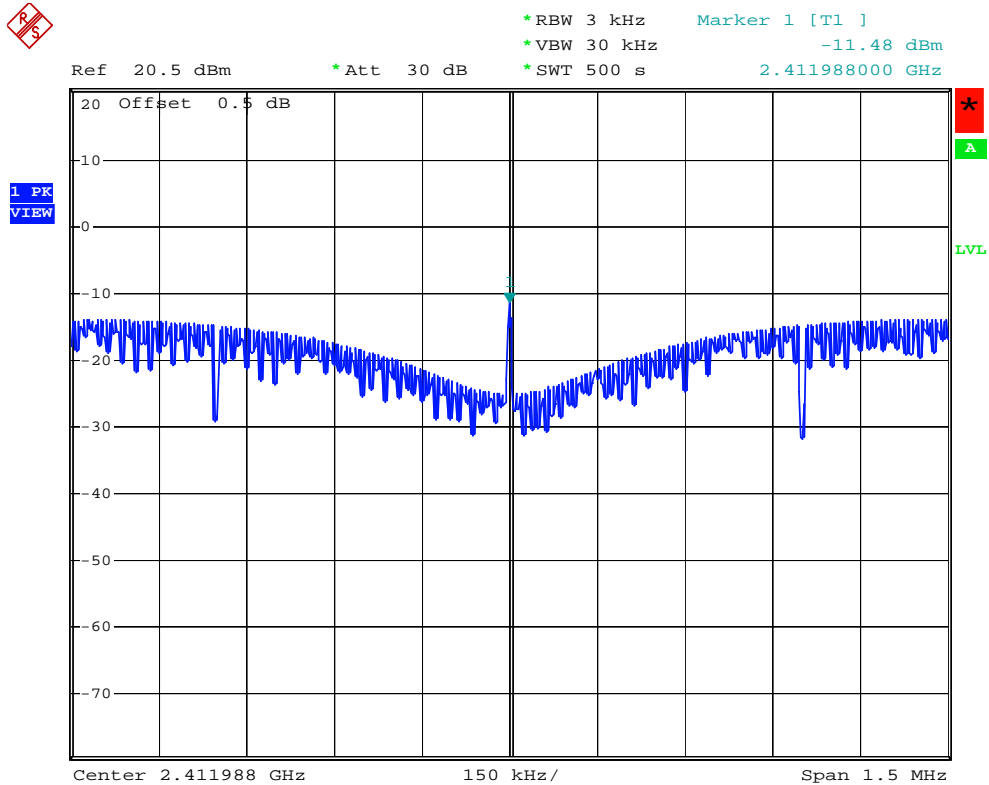


8.1.6 TEST RESULTS

EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	17 °C	Relative Humidity :	89 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b CH01, CH06, CH11		

Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH01	2412	-11.48	8
CH06	2437	-11.57	8
CH11	2462	-10.71	8

CH01





CH06

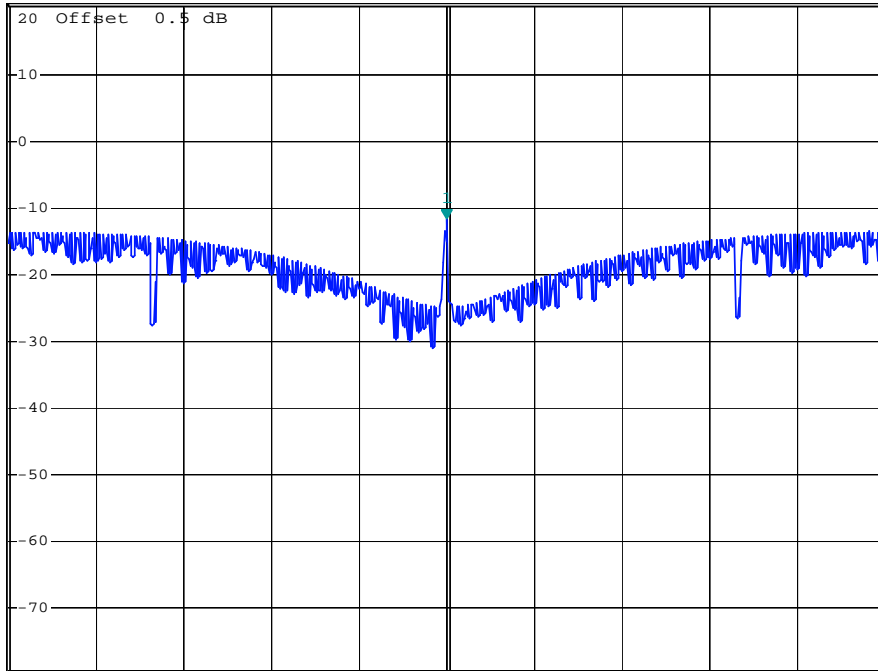


*RBW 3 kHz Marker 1 [T1]
*VBW 30 kHz -11.57 dBm
*SWT 500 s 2.436988000 GHz

Ref 20.5 dBm

*Att 30 dB

1 PK
VIEW



Center 2.436988 GHz

150 kHz/

Span 1.5 MHz

CH11

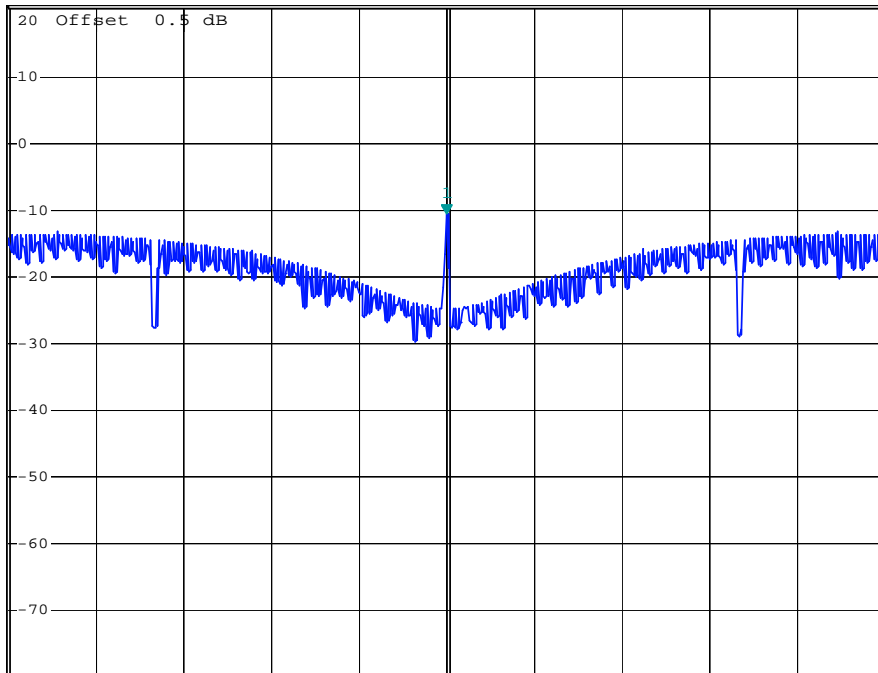


*RBW 3 kHz Marker 1 [T1]
*VBW 30 kHz -10.71 dBm
*SWT 500 s 2.461986000 GHz

Ref 20.5 dBm

*Att 30 dB

1 PK
VIEW



Center 2.461986 GHz

150 kHz/

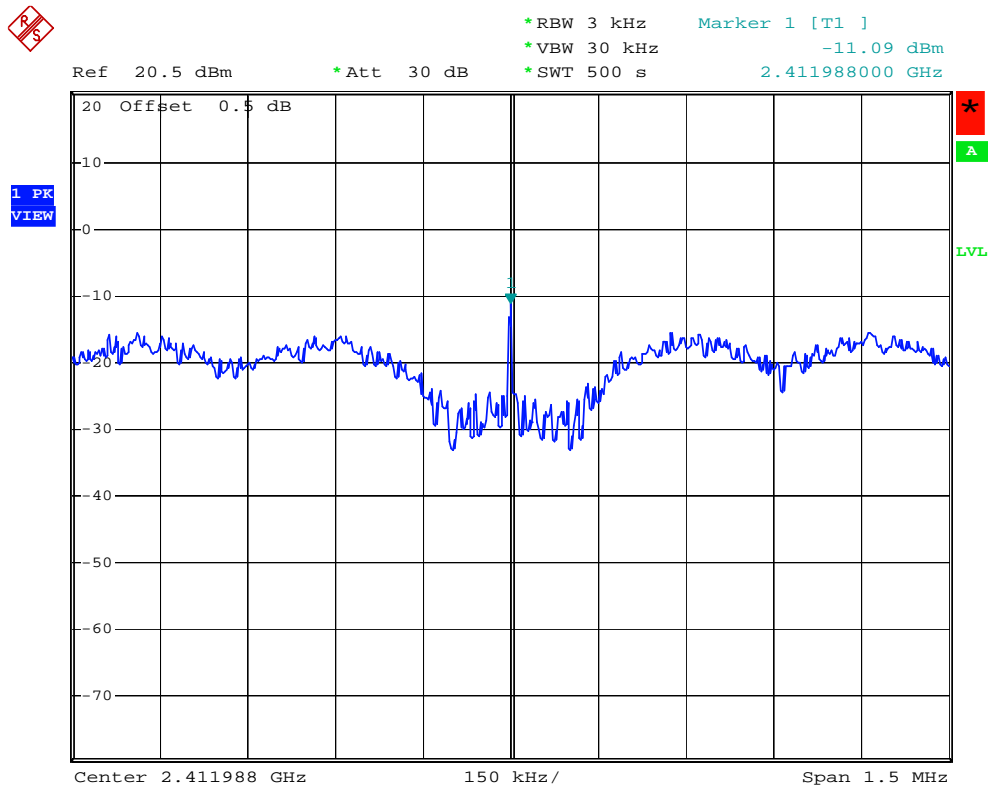
Span 1.5 MHz



EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	17 °C	Relative Humidity :	89 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11g CH01, CH06, CH11		

Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH01	2412	-11.09	8
CH06	2437	-8.00	8
CH11	2462	-10.27	8

CH01





CH06

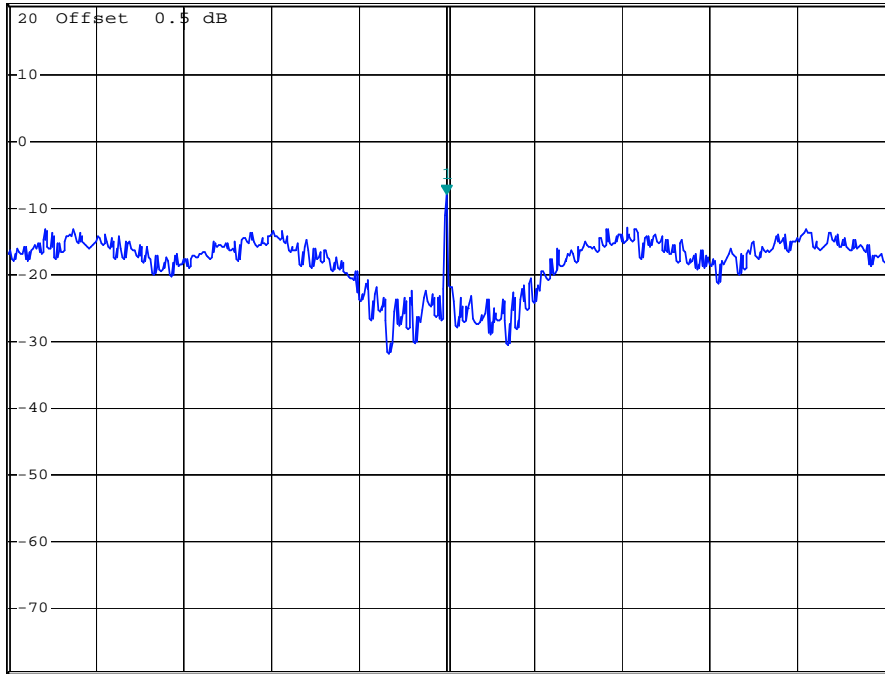


*RBW 3 kHz Marker 1 [T1]
*VBW 30 kHz -8.00 dBm
*SWT 500 s 2.436988000 GHz

Ref 20.5 dBm

*Att 30 dB

1 PK
VIEW



Center 2.436988 GHz 150 kHz/ Span 1.5 MHz

CH11

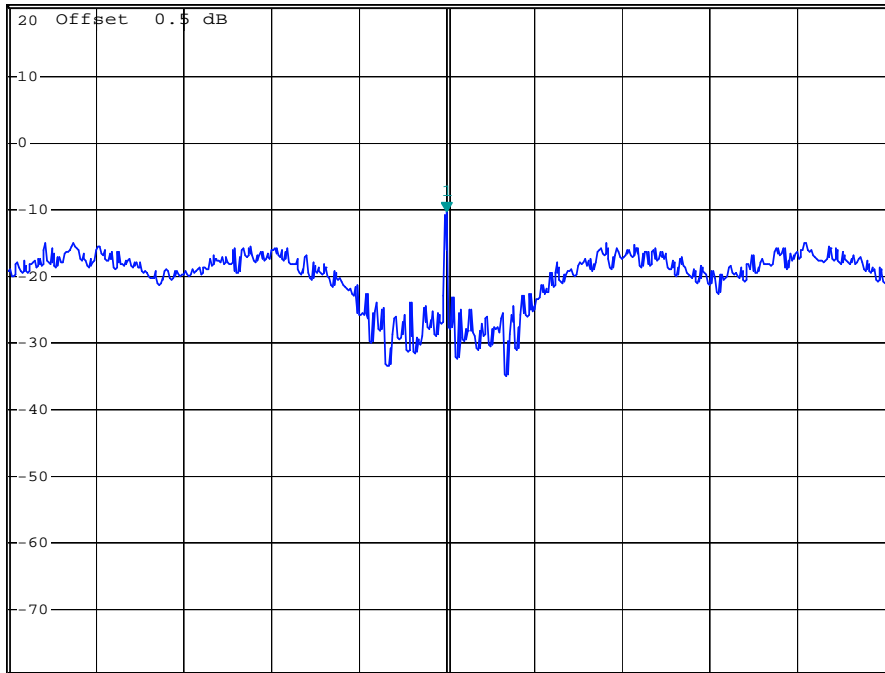


*RBW 3 kHz Marker 1 [T1]
*VBW 30 kHz -10.27 dBm
*SWT 500 s 2.461988000 GHz

Ref 20.5 dBm

*Att 30 dB

1 PK
VIEW



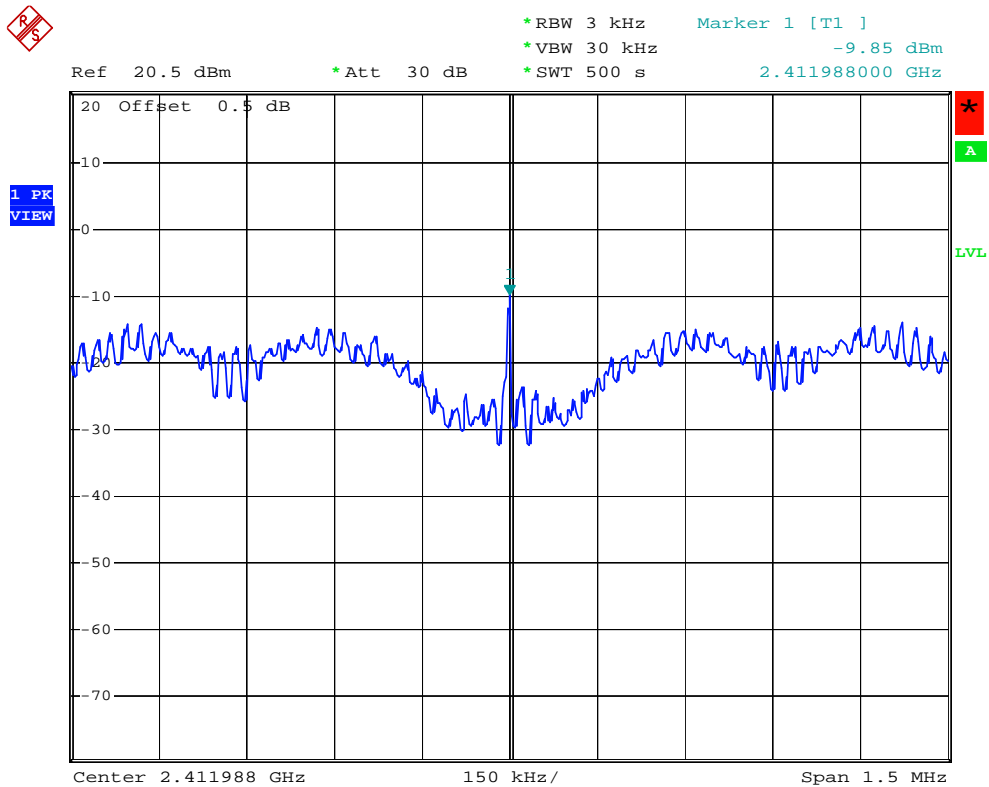
Center 2.461988 GHz 150 kHz/ Span 1.5 MHz



EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	17 °C	Relative Humidity :	89 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/20M CH01, CH06, CH11		

Test Channel	Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	LIMIT (dBm)
CH01	2412	-9.35	0.12	8
CH06	2437	-8.32	0.15	8
CH11	2462	-10.51	0.09	8

CH01





CH06

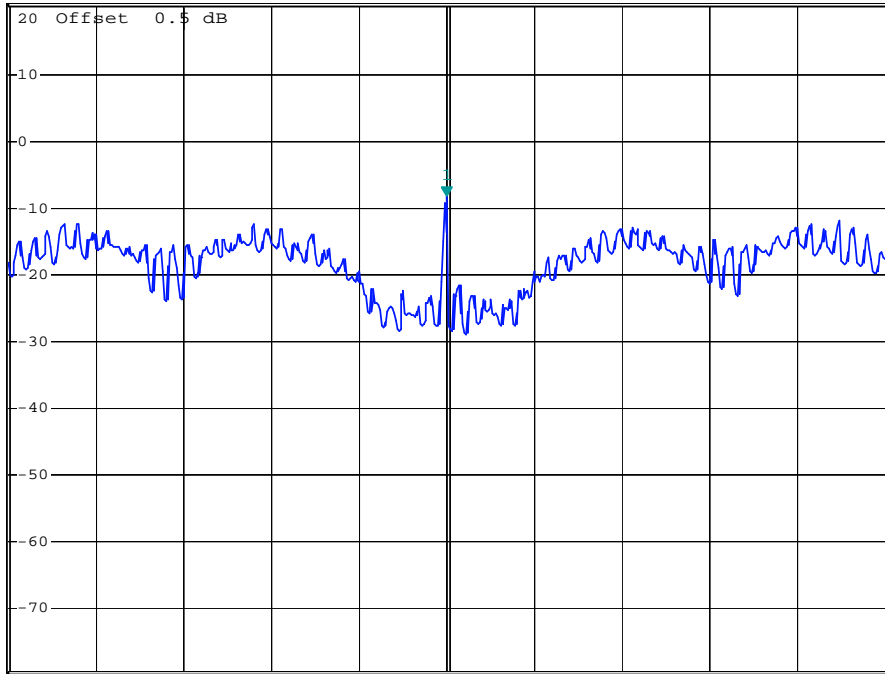


*RBW 3 kHz Marker 1 [T1]
*VBW 30 kHz -8.32 dBm
*SWT 500 s 2.436988000 GHz

Ref 20.5 dBm

*Att 30 dB

1 PK
VIEW



Center 2.436988 GHz

150 kHz/

Span 1.5 MHz

CH11

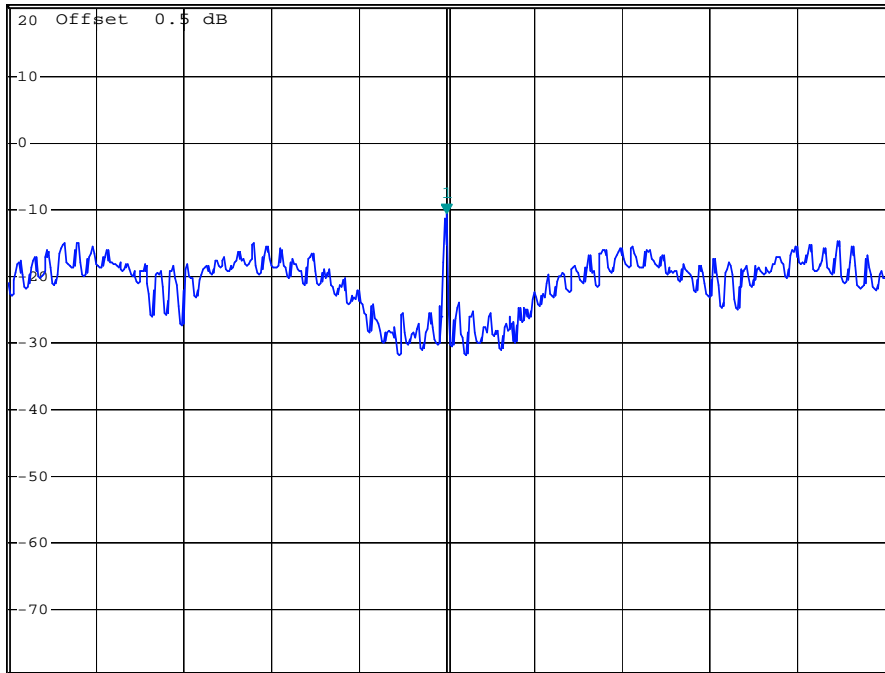


*RBW 3 kHz Marker 1 [T1]
*VBW 30 kHz -10.51 dBm
*SWT 500 s 2.461988000 GHz

Ref 20.5 dBm

*Att 30 dB

1 PK
VIEW



Center 2.461988 GHz

150 kHz/

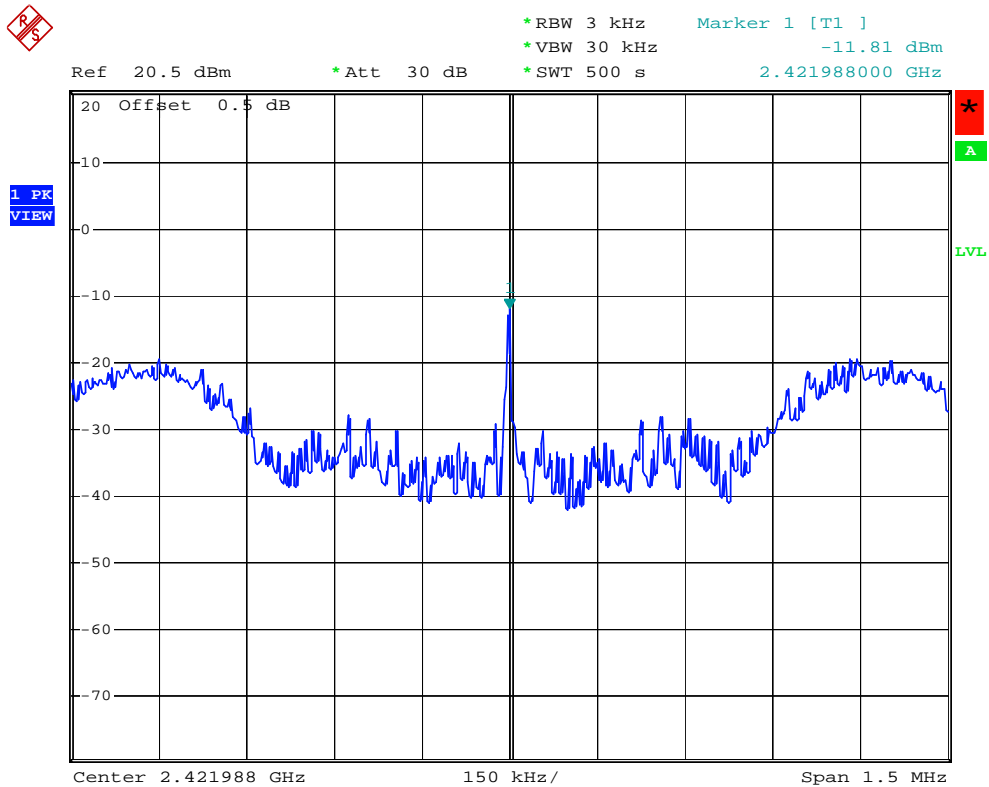
Span 1.5 MHz



EUT :	IEEE 802.11n WLAN USB 2.0 module	Model Name :	US302
Temperature :	17 °C	Relative Humidity :	89 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/40M CH03, CH06, CH09		

Test Channel	Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	LIMIT (dBm)
CH01	2412	-11.81	0.07	8
CH06	2437	-10.29	0.09	8
CH11	2462	-10.82	0.08	8

CH03





CH06

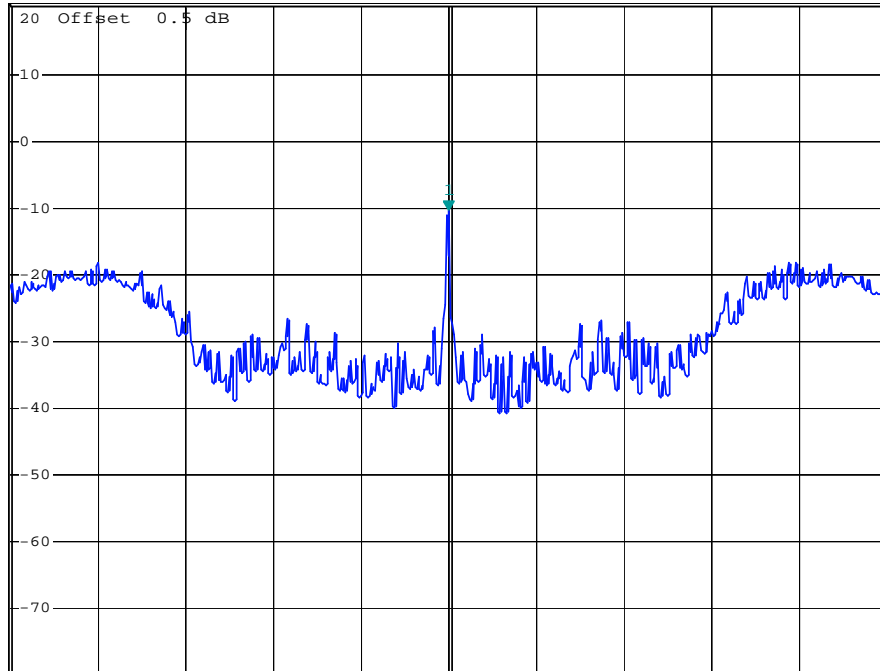


*RBW 3 kHz Marker 1 [T1]
*VBW 30 kHz -10.29 dBm
*SWT 500 s 2.436988000 GHz

Ref 20.5 dBm

*Att 30 dB

1 PK
VIEW



Center 2.436988 GHz

150 kHz/

Span 1.5 MHz

CH09

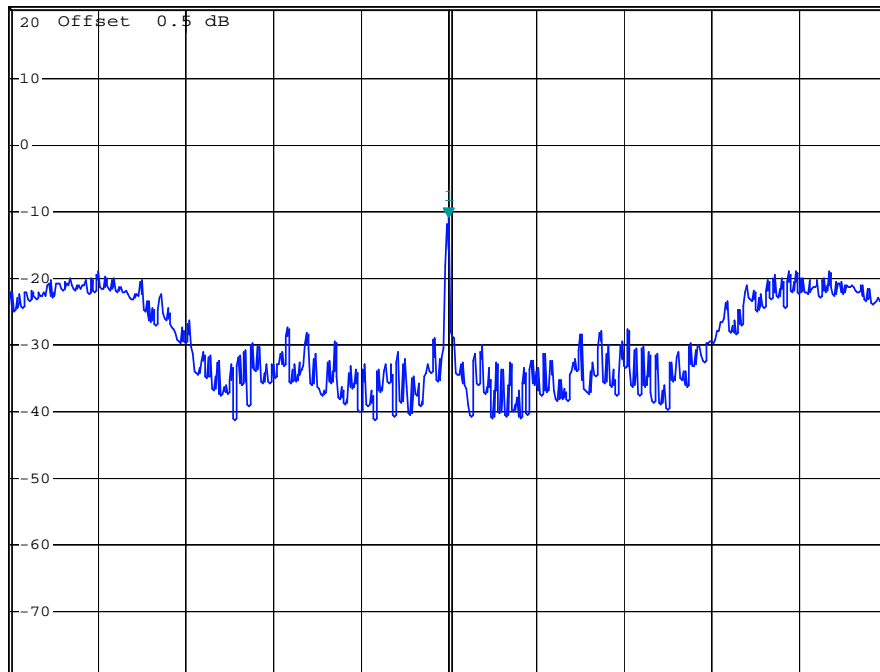


*RBW 3 kHz Marker 1 [T1]
*VBW 30 kHz -10.82 dBm
*SWT 500 s 2.451988000 GHz

Ref 20.5 dBm

*Att 30 dB

1 PK
VIEW



Center 2.451988 GHz

150 kHz/

Span 1.5 MHz