



Model: Vigor2915ac

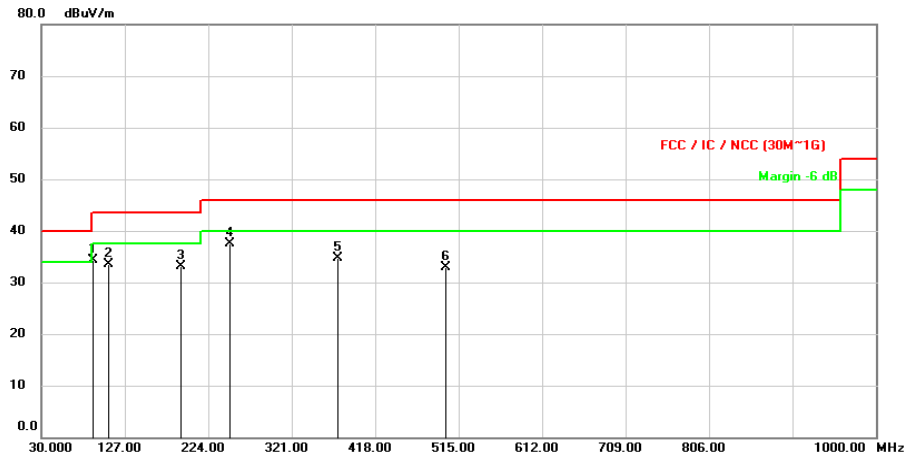
30 MHz ~ 1 GHz Data

CDD Mode

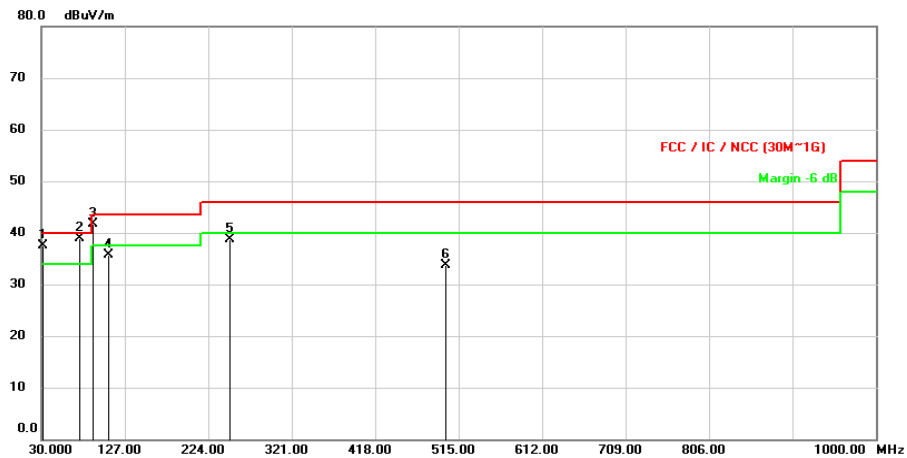
802.11n (HT40)

EUT Test Condition		Measurement Detail	
Channel	Channel 3	Frequency Range	30 MHz ~ 1 GHz

Horizontal



Vertical



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Doc No: 17-EM-F0876 / 2.0



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Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
*	90.2693	55.63	-21.24	34.39	43.50	-9.11	peak
*	107.9879	52.33	-18.74	33.59	43.50	-9.91	peak
*	192.1193	50.32	-17.27	33.05	43.50	-10.45	peak
*	249.9960	53.19	-15.76	37.43	46.00	-8.57	peak
*	374.9966	46.83	-12.20	34.63	46.00	-11.37	peak
*	499.9973	42.24	-9.37	32.87	46.00	-13.13	peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	31.0347	53.89	-16.48	37.41	40.00	-2.59	QP
*	74.2967	57.25	-18.35	38.90	40.00	-1.10	peak
*	90.2693	63.04	-21.24	41.80	43.50	-1.70	peak
*	107.9880	54.50	-18.74	35.76	43.50	-7.74	peak
*	249.9960	54.51	-15.76	38.75	46.00	-7.25	peak
*	499.9973	43.06	-9.37	33.69	46.00	-12.31	peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. " * ": The peak result complies with QP limit, QP result is deemed to comply with QP limit.
5. The other emission levels were very low against the limit.

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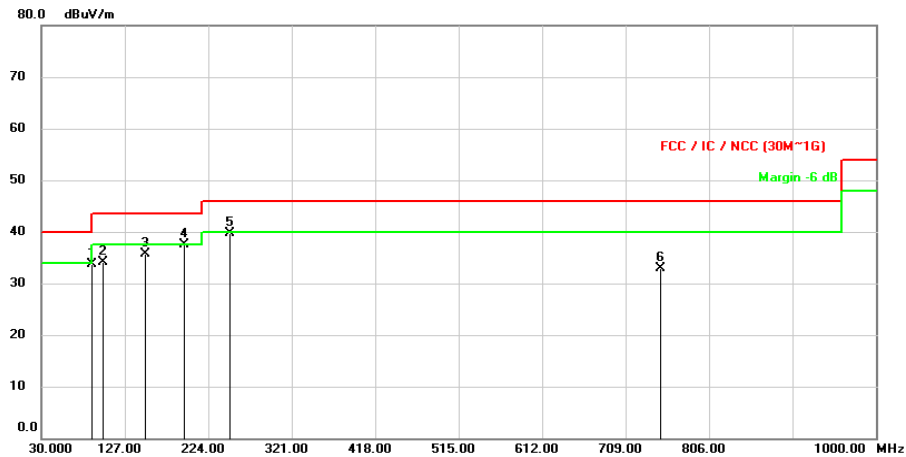


Co-Location Mode

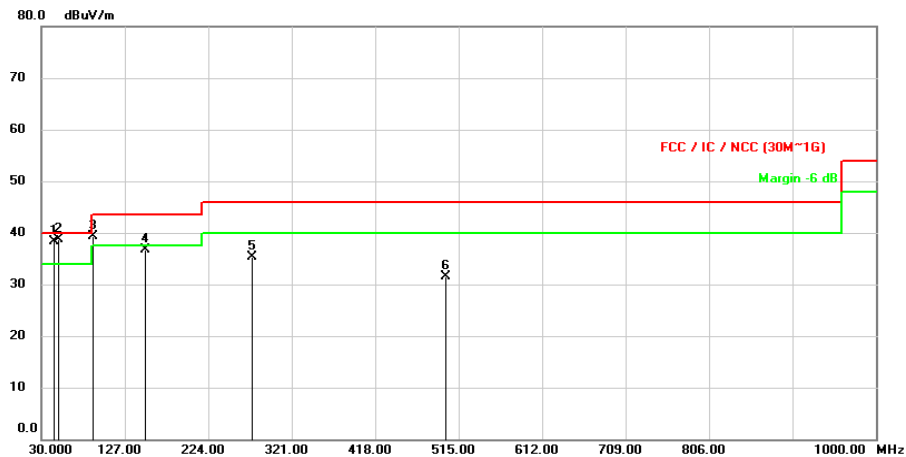
802.11b + 802.11a

EUT Test Condition		Measurement Detail	
Channel	Channel 1+ Channel 149	Frequency Range	30 MHz ~ 1 GHz

Horizontal



Vertical



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Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	88.8789	54.97	-21.18	33.79	43.50	-9.71	peak
-	100.8423	54.10	-19.91	34.19	43.50	-9.31	peak
-	150.8620	51.02	-15.29	35.73	43.50	-7.77	peak
-	195.9670	54.81	-17.40	37.41	43.50	-6.09	peak
-	249.9960	55.49	-15.76	39.73	46.00	-6.27	peak
-	749.9986	37.45	-4.50	32.95	46.00	-13.05	peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	44.0973	53.62	-15.23	38.39	40.00	-1.61	peak
-	50.3377	53.65	-15.01	38.64	40.00	-1.36	peak
-	89.5903	60.46	-21.21	39.25	43.50	-4.25	peak
-	151.0559	51.91	-15.29	36.62	43.50	-6.88	peak
-	275.5393	49.97	-14.59	35.38	46.00	-10.62	peak
-	499.9973	40.79	-9.37	31.42	46.00	-14.58	peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. The peak result complies with QP limit, QP result is deemed to comply with QP limit.
5. The other emission levels were very low against the limit.

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Model: Vigor2915Fac

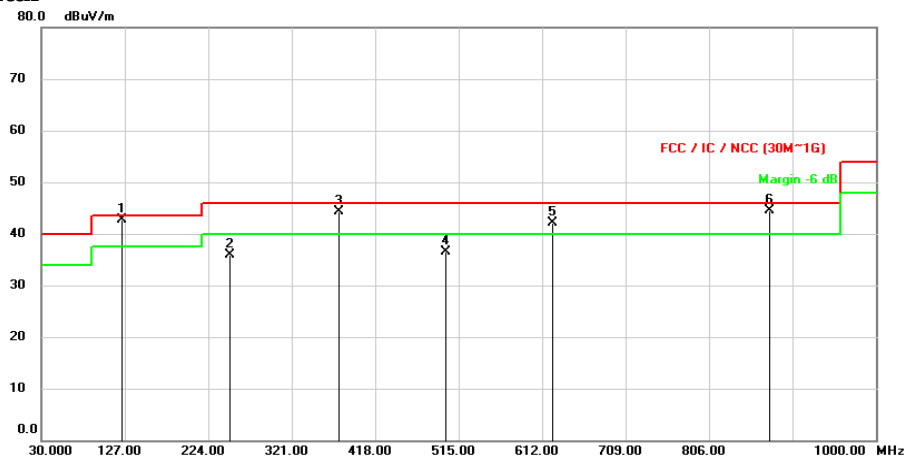
30 MHz ~ 1 GHz Data

CDD Mode

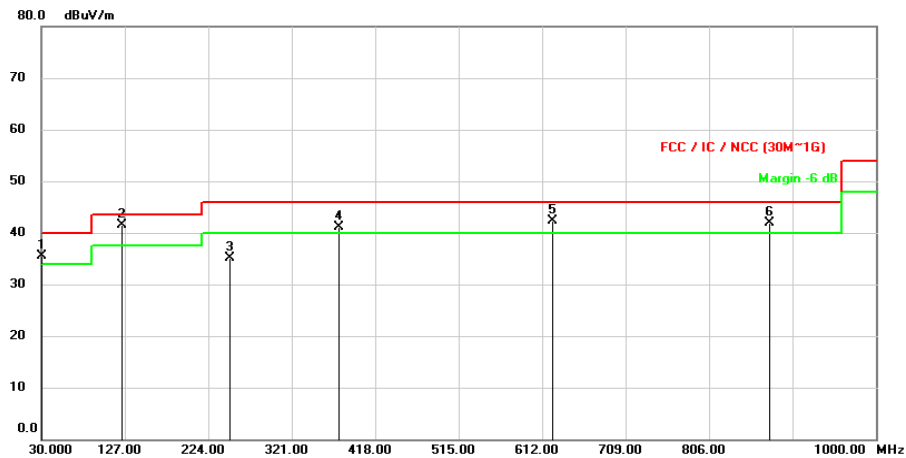
802.11n (HT40)

EUT Test Condition		Measurement Detail	
Channel	Channel 3	Frequency Range	30 MHz ~ 1 GHz

Horizontal



Vertical



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Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	124.9953	60.21	-17.46	42.75	43.50	-0.75	peak
-	249.9960	51.63	-15.76	35.87	46.00	-10.13	peak
-	374.9967	56.53	-12.20	44.33	46.00	-1.67	peak
-	499.9973	45.81	-9.37	36.44	46.00	-9.56	peak
-	624.9980	48.81	-6.64	42.17	46.00	-3.83	peak
-	875.0317	47.60	-3.02	44.58	46.00	-1.42	peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	30.6790	52.08	-16.50	35.58	40.00	-4.42	peak
-	124.9953	58.96	-17.46	41.50	43.50	-2.00	peak
-	249.9960	50.79	-15.76	35.03	46.00	-10.97	peak
-	374.9967	53.23	-12.20	41.03	46.00	-4.97	peak
-	624.9980	48.93	-6.64	42.29	46.00	-3.71	peak
-	875.0317	44.88	-3.02	41.86	46.00	-4.14	peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. The peak result complies with QP limit, QP result is deemed to comply with QP limit.
5. The other emission levels were very low against the limit.

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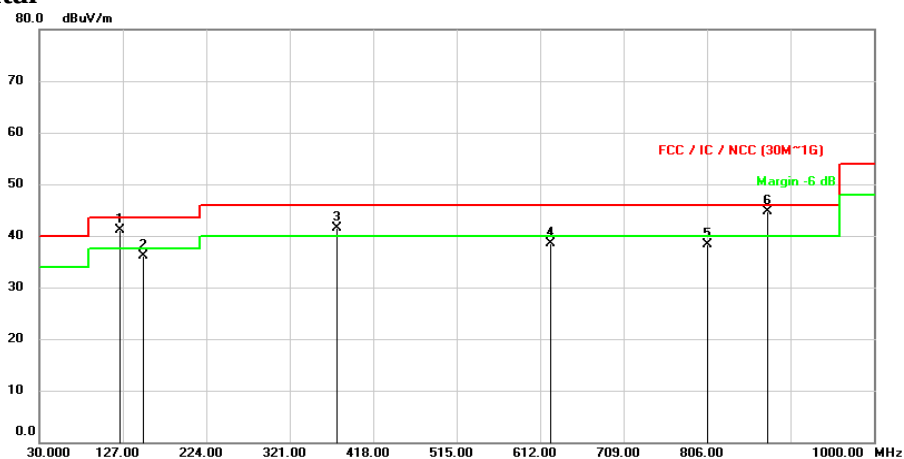


Co-Location Mode

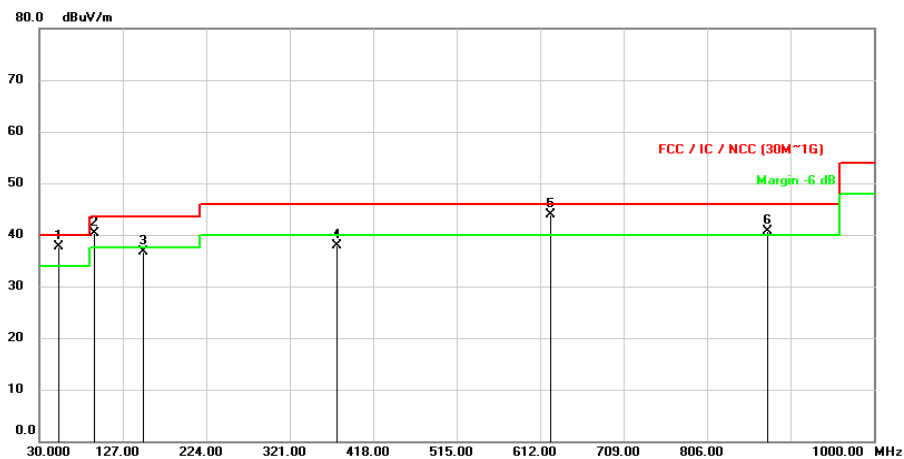
802.11b + 802.11a

EUT Test Condition		Measurement Detail	
Channel	Channel 1+ Channel 149	Frequency Range	30 MHz ~ 1 GHz

Horizontal



Vertical



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Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	124.9953	58.59	-17.46	41.13	43.50	-2.37	peak
-	150.3770	51.32	-15.30	36.02	43.50	-7.48	peak
-	374.9967	53.76	-12.20	41.56	46.00	-4.44	peak
-	624.9980	45.16	-6.64	38.52	46.00	-7.48	peak
-	806.0000	42.16	-3.83	38.33	46.00	-7.67	peak
-	874.9993	47.75	-3.02	44.73	46.00	-1.27	peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	51.5663	52.83	-15.03	37.80	40.00	-2.20	peak
-	94.0199	61.36	-21.08	40.28	43.50	-3.22	peak
-	151.0559	51.95	-15.29	36.66	43.50	-6.84	peak
-	374.9967	50.15	-12.20	37.95	46.00	-8.05	peak
-	624.9980	50.52	-6.64	43.88	46.00	-2.12	peak
-	875.0317	43.71	-3.02	40.69	46.00	-5.31	peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. The peak result complies with QP limit, QP result is deemed to comply with QP limit.
5. The other emission levels were very low against the limit.

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9.6. AC Power Line Conducted Emission

Requirements

Frequency (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

Test Procedures

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.
2. The extension power cord has been taken into consideration as part of the LISN.

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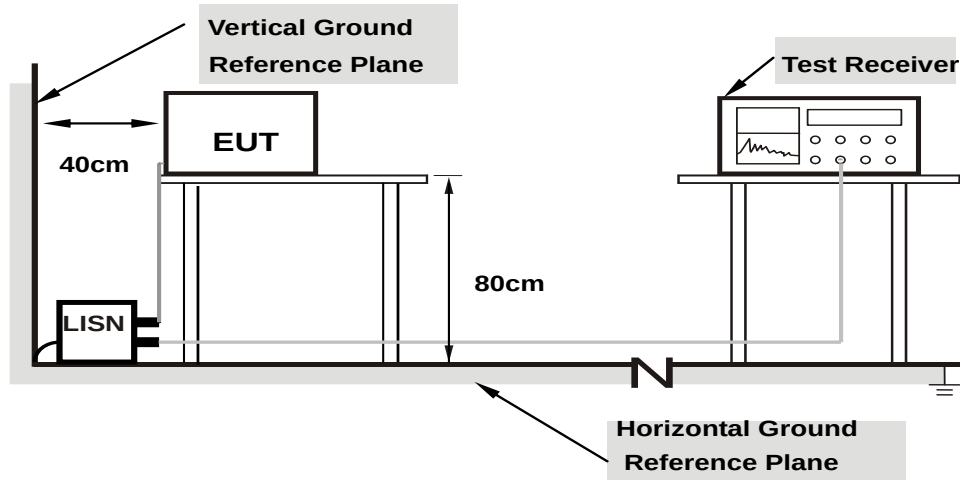
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Test Setup



Note: 1.Support units were connected to second LISN.

For the actual test configuration, please refer to the Setup Configurations.

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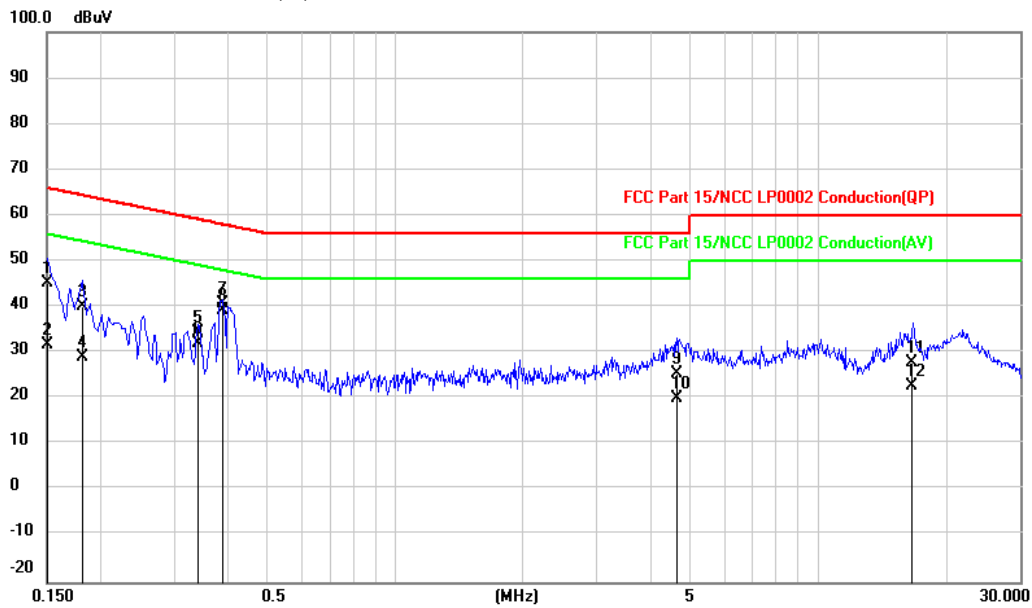
Test Data

Model: Vigor2915ac

802.11n (HT40)

EUT Test Condition		Measurement Detail	
Channel	Channel 3	Frequency Range	150 kHz ~ 30 MHz

Phase of Power : Line (L)



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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	dB	(dBuV)	(dBuV)	(dB)	
1	0.1514	25.45	19.69	45.14	65.92	-20.78	QP
2	0.1514	12.20	19.69	31.89	55.92	-24.03	AVG
3	0.1816	20.34	19.68	40.02	64.41	-24.39	QP
4	0.1816	9.36	19.68	29.04	54.41	-25.37	AVG
5	0.3421	14.81	19.67	34.48	59.15	-24.67	QP
6	0.3421	12.43	19.67	32.10	49.15	-17.05	AVG
7	0.3899	21.10	19.67	40.77	58.07	-17.30	QP
8	0.3899	19.55	19.67	39.22	48.07	-8.85	AVG
9	4.6420	5.85	19.74	25.59	56.00	-30.41	QP
10	4.6420	0.27	19.74	20.01	46.00	-25.99	AVG
11	16.6817	8.13	19.84	27.97	60.00	-32.03	QP
12	16.6817	2.86	19.84	22.70	50.00	-27.30	AVG

Remarks:

1. Result value (dBuV) = Reading value (dBuV) + Correction Factor (dB)
2. Margin(dB) = Result value (dBuV) - Limit value (dBuV)
3. Correction Factor(dB) = Insertion loss(dB) + Cable loss(dB)
4. The other emission levels were very low against the limit.

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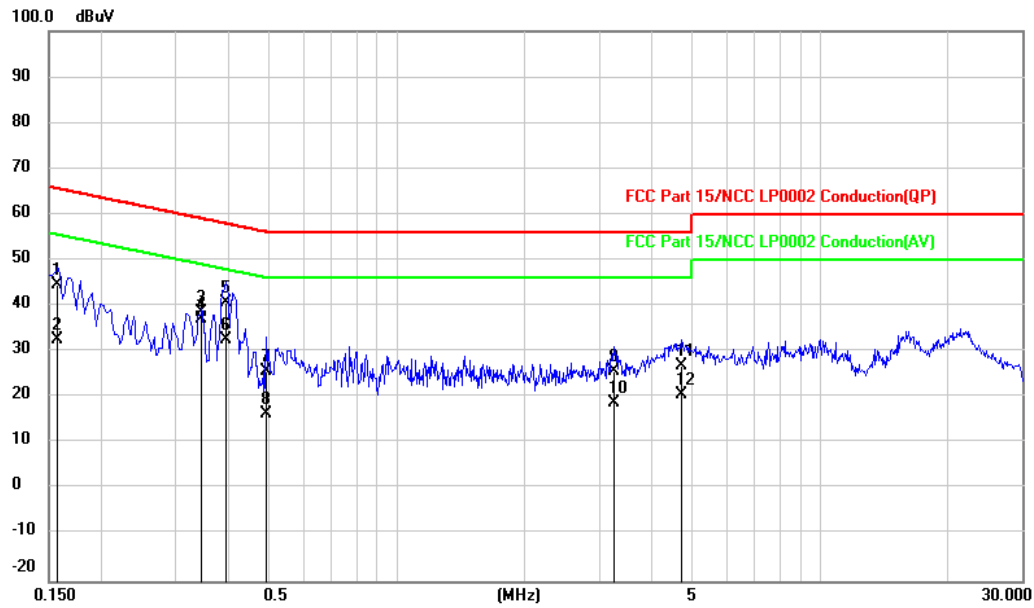
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Phase of Power : Neutral (N)



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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	dB	(dBuV)	(dBuV)	(dB)	
1	0.1580	24.97	19.68	44.65	65.57	-20.92	QP
2	0.1580	12.96	19.68	32.64	55.57	-22.93	AVG
3	0.3460	19.05	19.67	38.72	59.06	-20.34	QP
4	0.3460	17.63	19.67	37.30	49.06	-11.76	AVG
5	0.3940	21.03	19.67	40.70	57.98	-17.28	QP
6	0.3940	12.94	19.67	32.61	47.98	-15.37	AVG
7	0.4900	6.17	19.67	25.84	56.17	-30.33	QP
8	0.4900	-3.23	19.67	16.44	46.17	-29.73	AVG
9	3.2494	6.12	19.72	25.84	56.00	-30.16	QP
10	3.2494	-0.89	19.72	18.83	46.00	-27.17	AVG
11	4.6979	7.07	19.76	26.83	56.00	-29.17	QP
12	4.6979	1.02	19.76	20.78	46.00	-25.22	AVG

Remarks:

1. Result value (dBuV) = Reading value (dBuV) + Correction Factor (dB)
2. Margin(dB) = Result value (dBuV) - Limit value (dBuV)
3. Correction Factor(dB) = Insertion loss(dB) + Cable loss(dB)
4. The other emission levels were very low against the limit.

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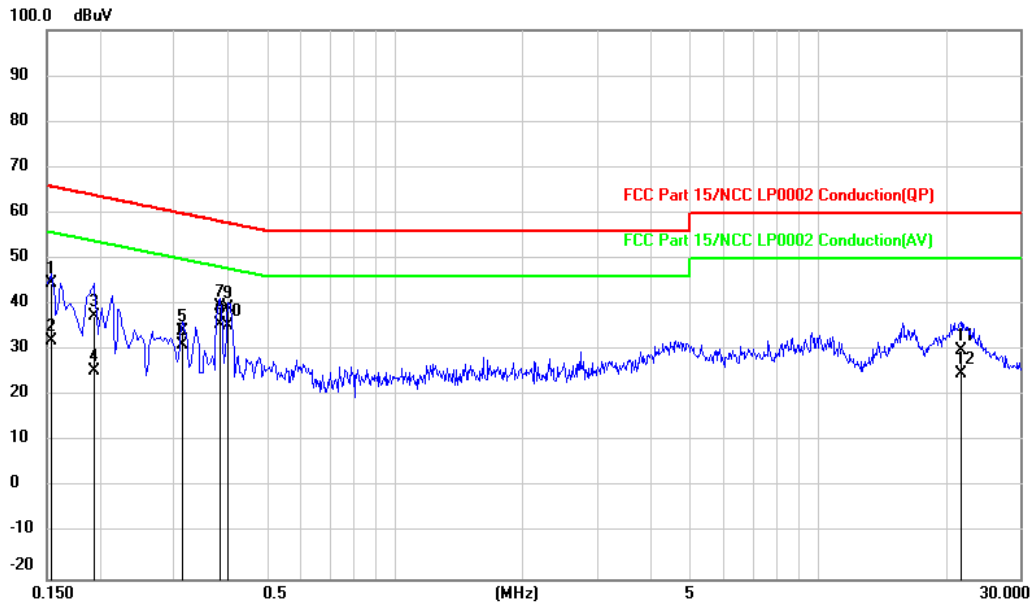
Doc No: 17-EM-F0876 / 2.0



Model: Vigor2915Fac

EUT Test Condition		Measurement Detail	
Channel	Channel 3	Frequency Range	150 kHz ~ 30 MHz

Phase of Power : Line (L)



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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	dB	(dBuV)	(dBuV)	(dB)	
1	0.1539	25.07	19.69	44.76	65.79	-21.03	QP
2	0.1539	12.40	19.69	32.09	55.79	-23.70	AVG
3	0.1940	17.73	19.68	37.41	63.86	-26.45	QP
4	0.1940	5.84	19.68	25.52	53.86	-28.34	AVG
5	0.3140	14.52	19.67	34.19	59.86	-25.67	QP
6	0.3140	11.43	19.67	31.10	49.86	-18.76	AVG
7	0.3868	19.85	19.67	39.52	58.13	-18.61	QP
8	0.3868	16.09	19.67	35.76	48.13	-12.37	AVG
9	0.4022	19.51	19.67	39.18	57.81	-18.63	QP
10	0.4022	15.77	19.67	35.44	47.81	-12.37	AVG
11	21.7900	10.04	19.86	29.90	60.00	-30.10	QP
12	21.7900	4.99	19.86	24.85	50.00	-25.15	AVG

Remarks:

1. Result value (dBuV) = Reading value (dBuV) + Correction Factor (dB)
2. Margin(dB) = Result value (dBuV) - Limit value (dBuV)
3. Correction Factor(dB) = Insertion loss(dB) + Cable loss(dB)
4. The other emission levels were very low against the limit.

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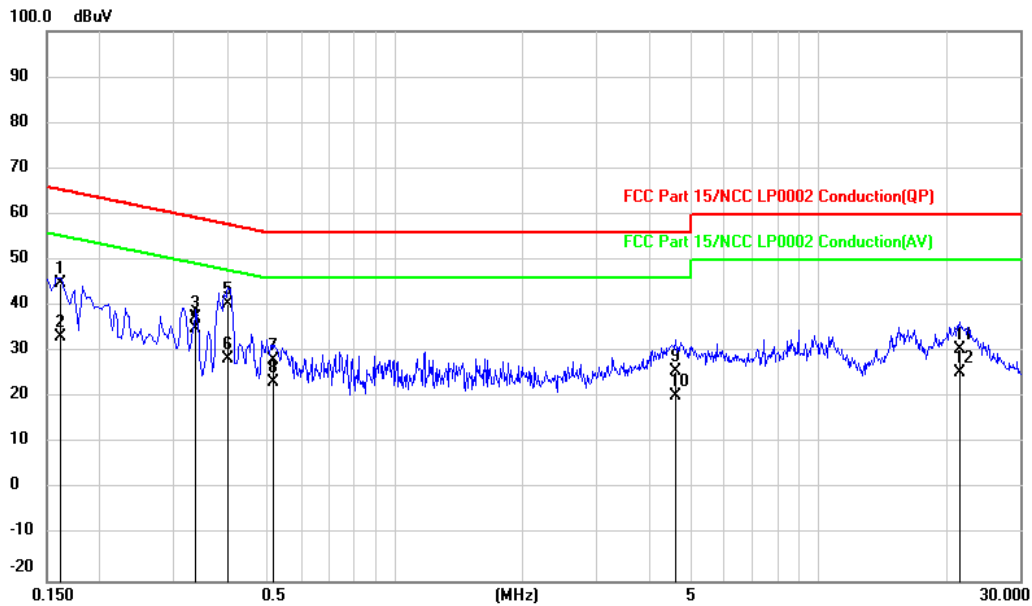
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Phase of Power : Neutral (N)



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FCC ID : VGY2915

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	dB	(dBuV)	(dBuV)	(dB)	
1	0.1620	25.41	19.68	45.09	65.36	-20.27	QP
2	0.1620	13.46	19.68	33.14	55.36	-22.22	AVG
3	0.3390	17.77	19.67	37.44	59.23	-21.79	QP
4	0.3390	15.43	19.67	35.10	49.23	-14.13	AVG
5	0.4020	20.83	19.67	40.50	57.81	-17.31	QP
6	0.4020	8.86	19.67	28.53	47.81	-19.28	AVG
7	0.5180	8.63	19.67	28.30	56.00	-27.70	QP
8	0.5180	3.68	19.67	23.35	46.00	-22.65	AVG
9	4.6020	5.94	19.76	25.70	56.00	-30.30	QP
10	4.6020	0.51	19.76	20.27	46.00	-25.73	AVG
11	21.6140	10.53	19.96	30.49	60.00	-29.51	QP
12	21.6140	5.36	19.96	25.32	50.00	-24.68	AVG

Remarks:

1. Result value (dBuV) = Reading value (dBuV) + Correction Factor (dB)
2. Margin(dB) = Result value (dBuV) - Limit value (dBuV)
3. Correction Factor(dB) = Insertion loss(dB) + Cable loss(dB)
4. The other emission levels were very low against the limit.

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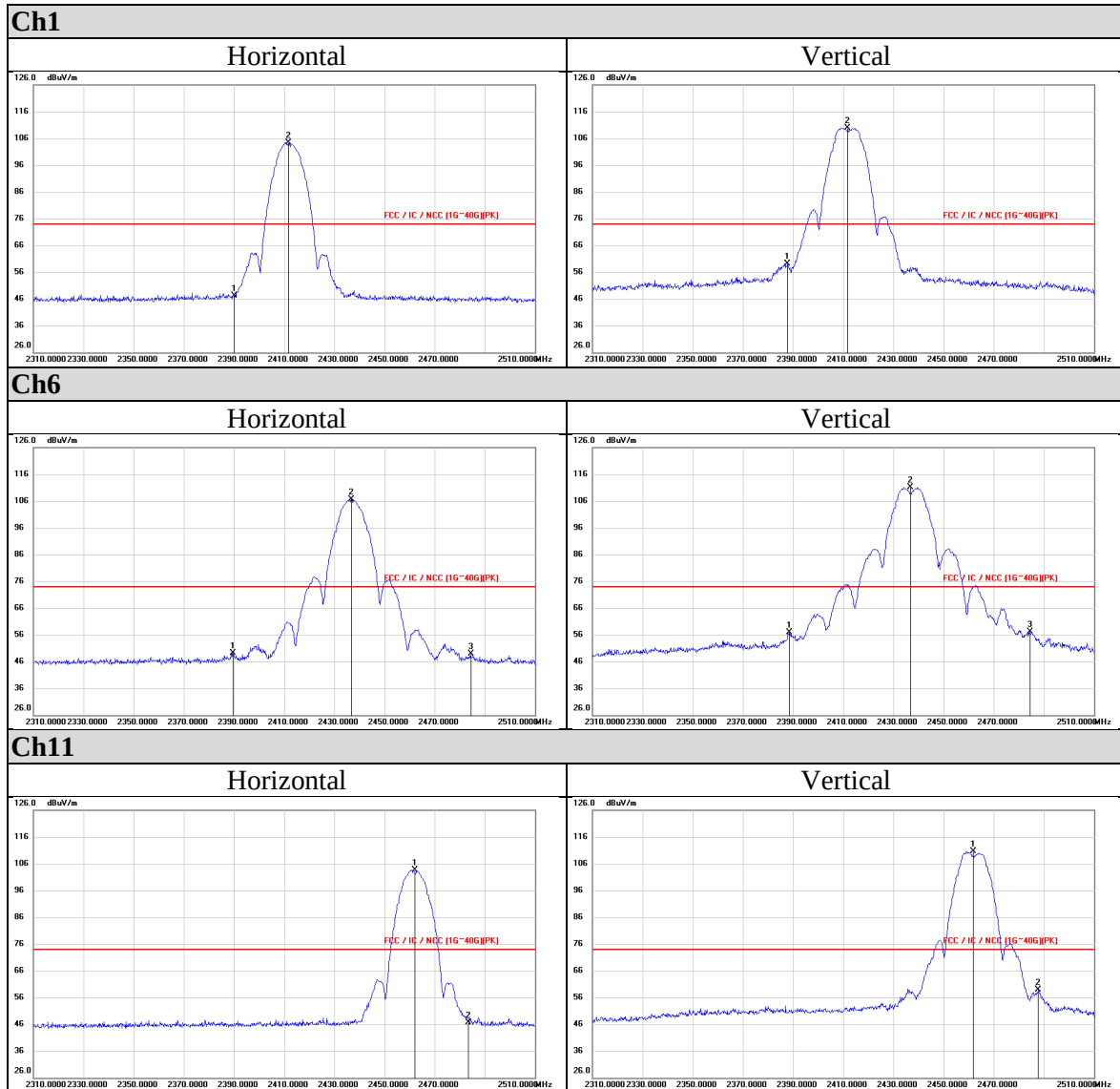
Appendix I Radiated Band Edge Measurement

Model: Vigor2915ac

CDD Mode

802.11b

Peak



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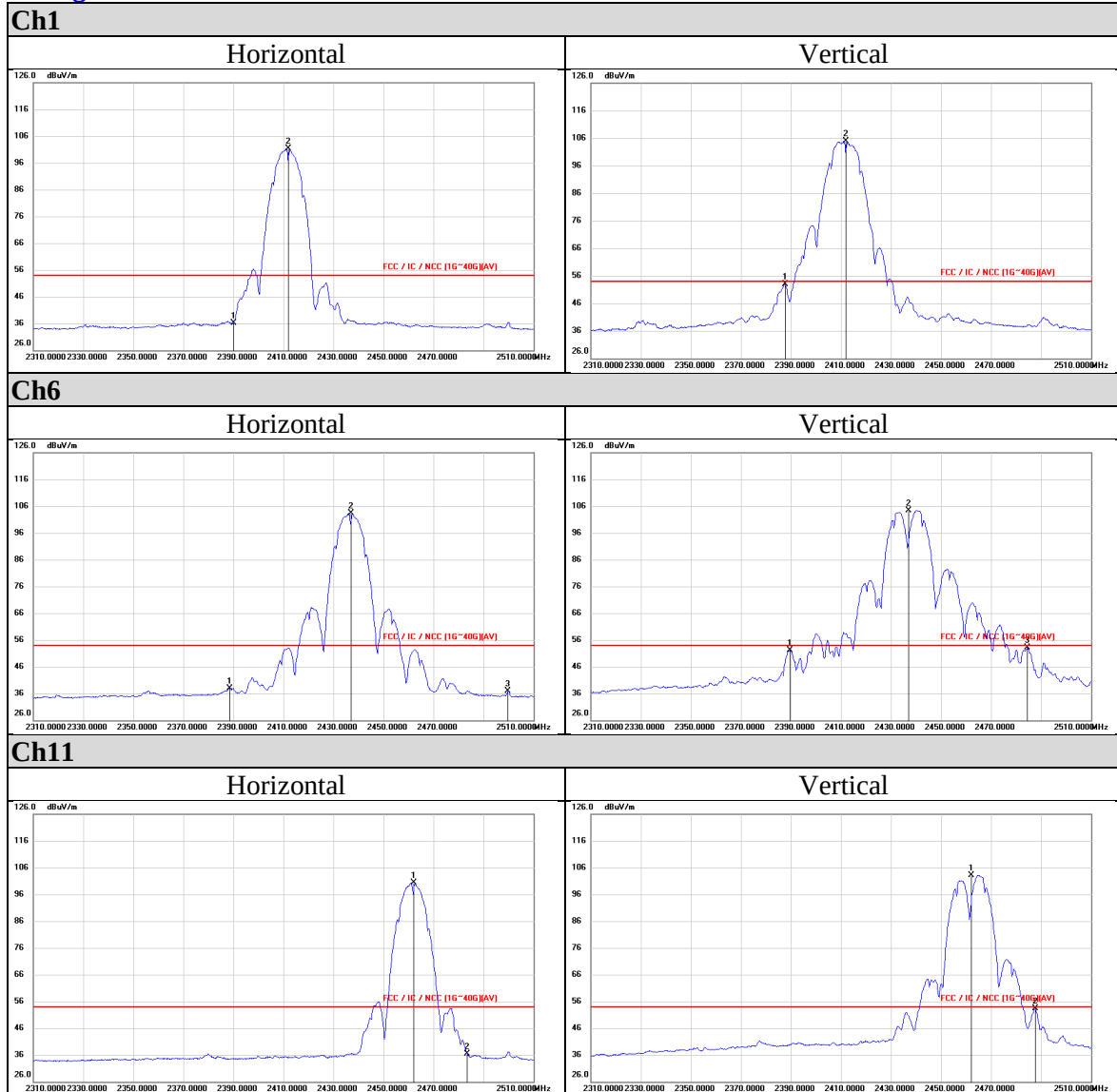
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Average



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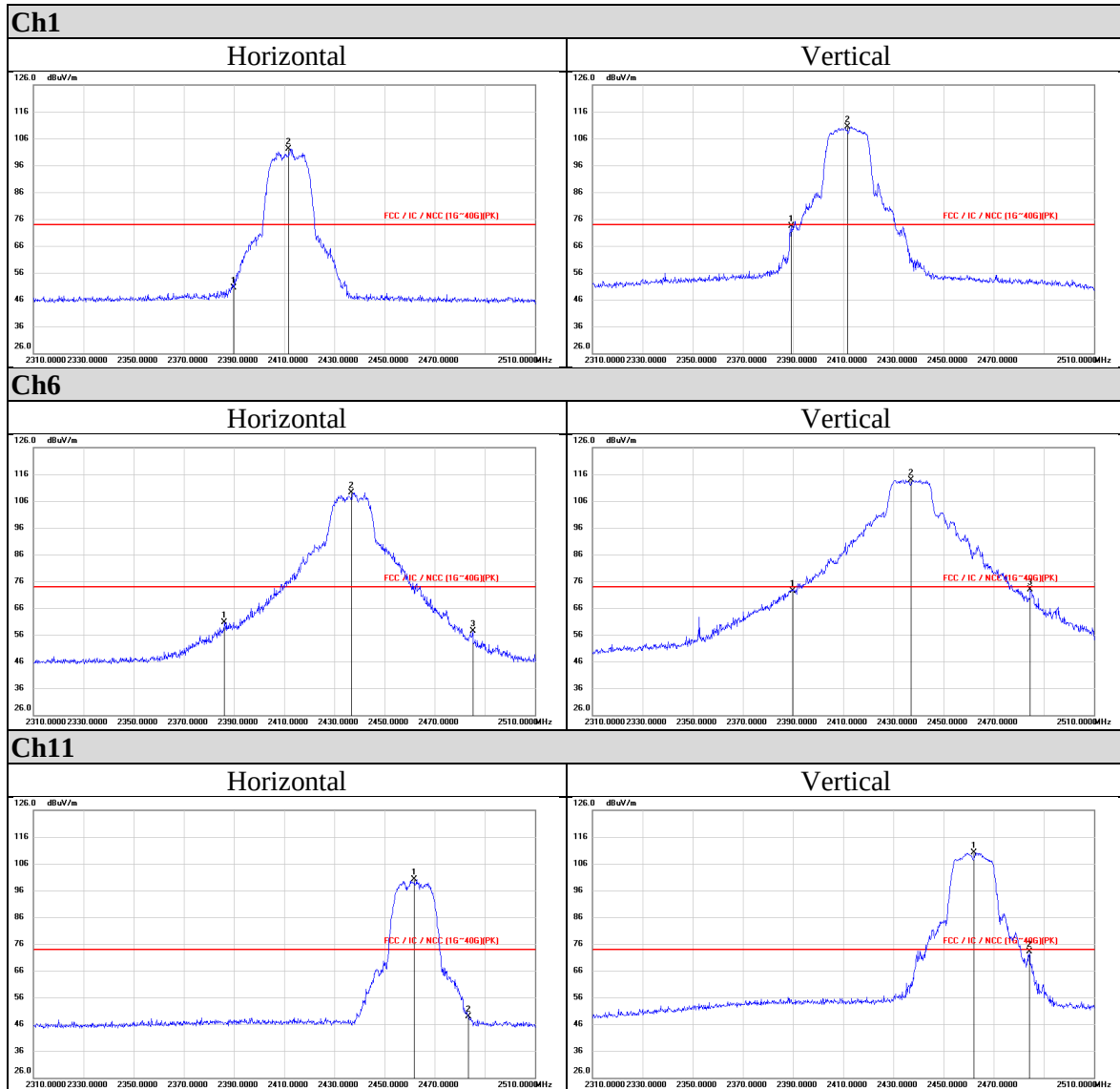
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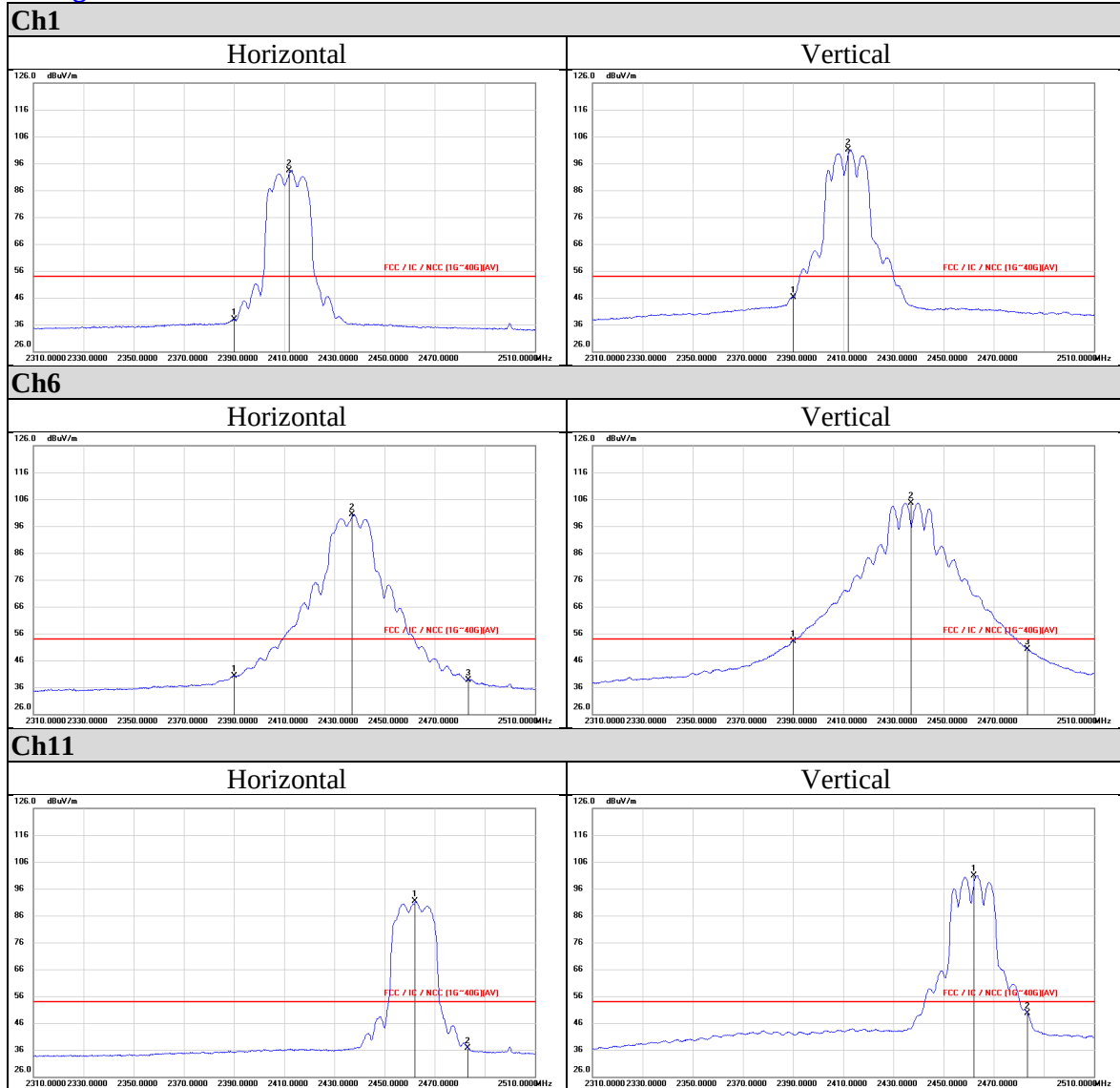


802.11g
Peak





Average



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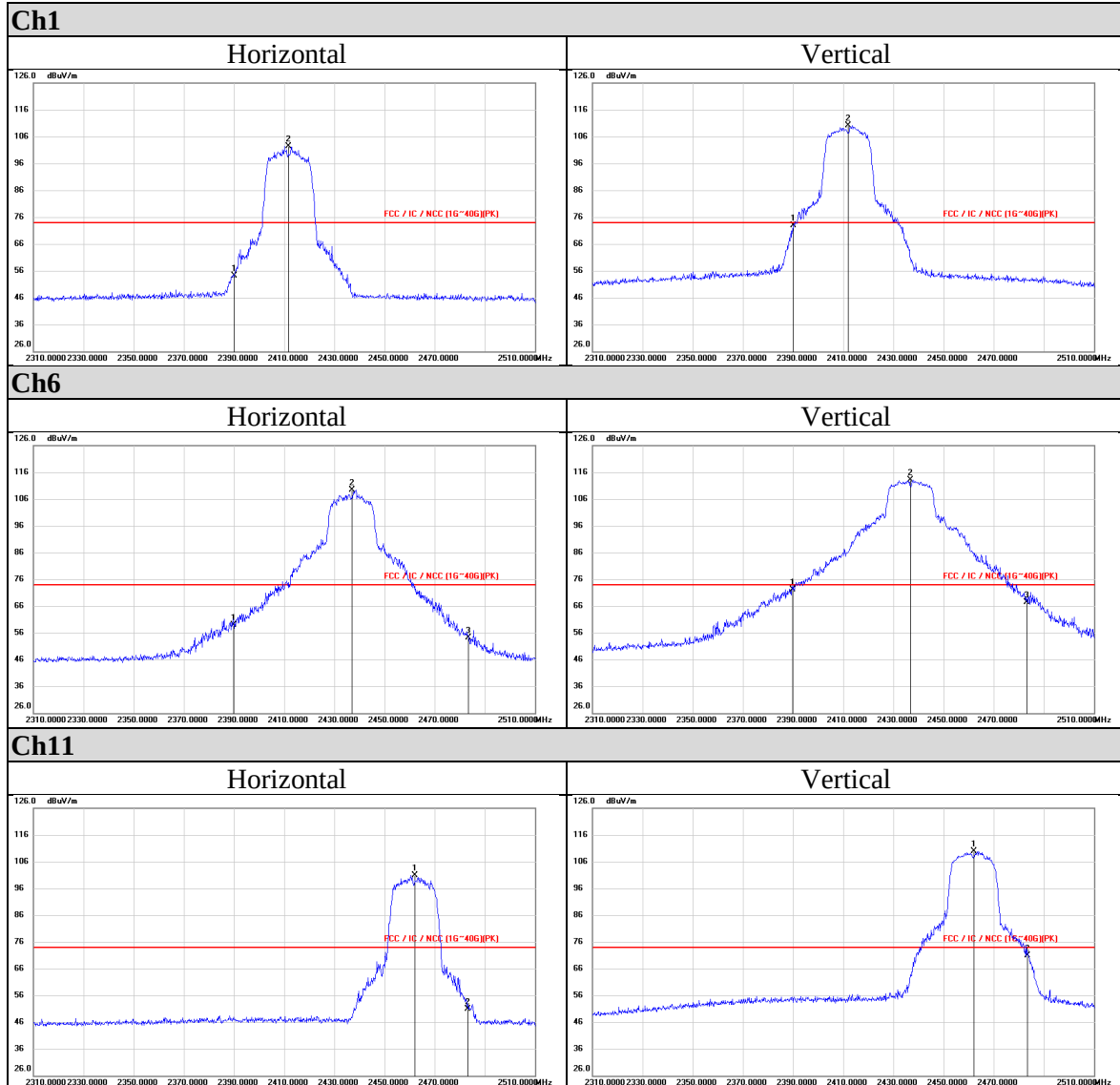
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802.11n (HT20)

Peak



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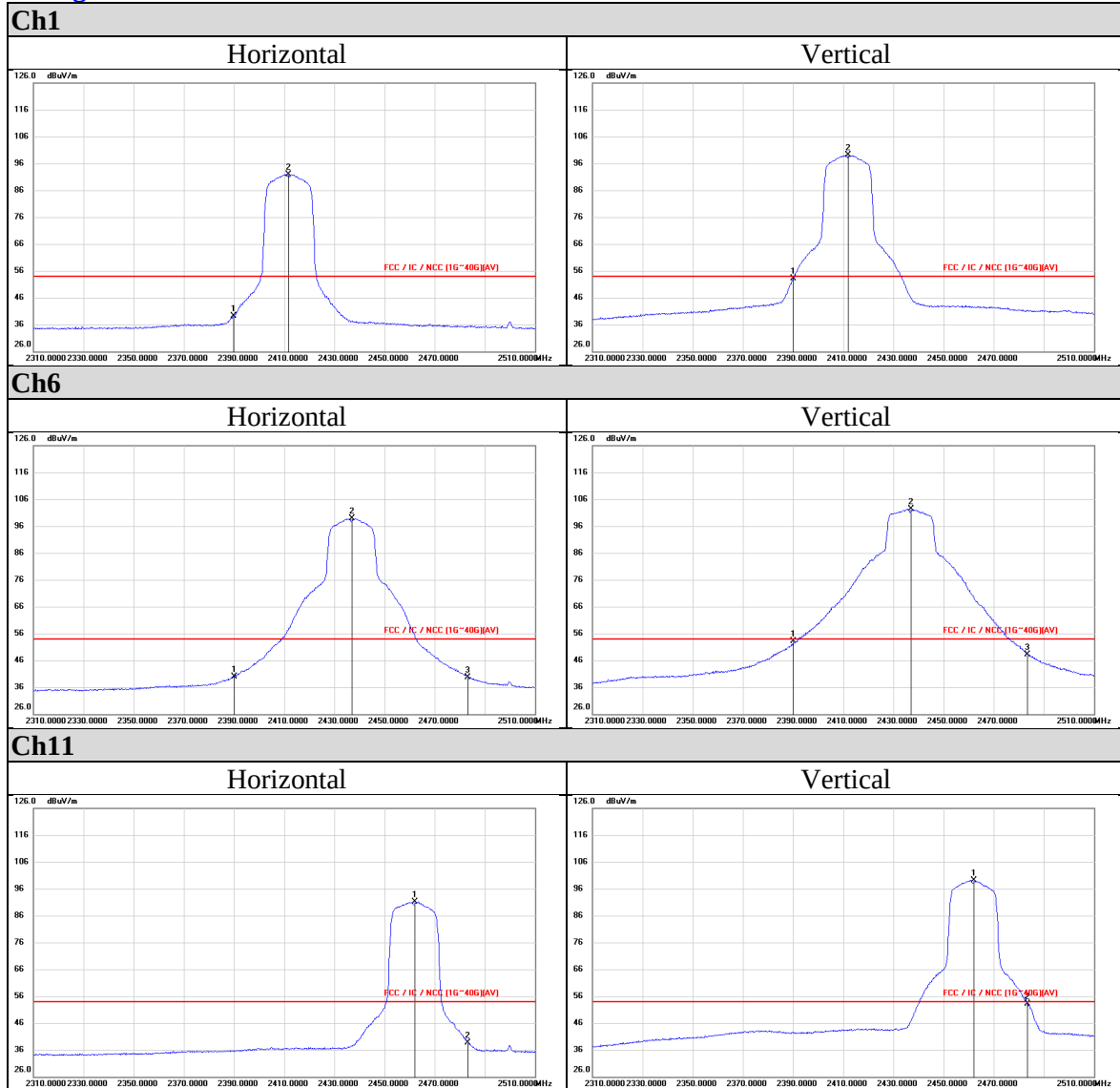
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Average



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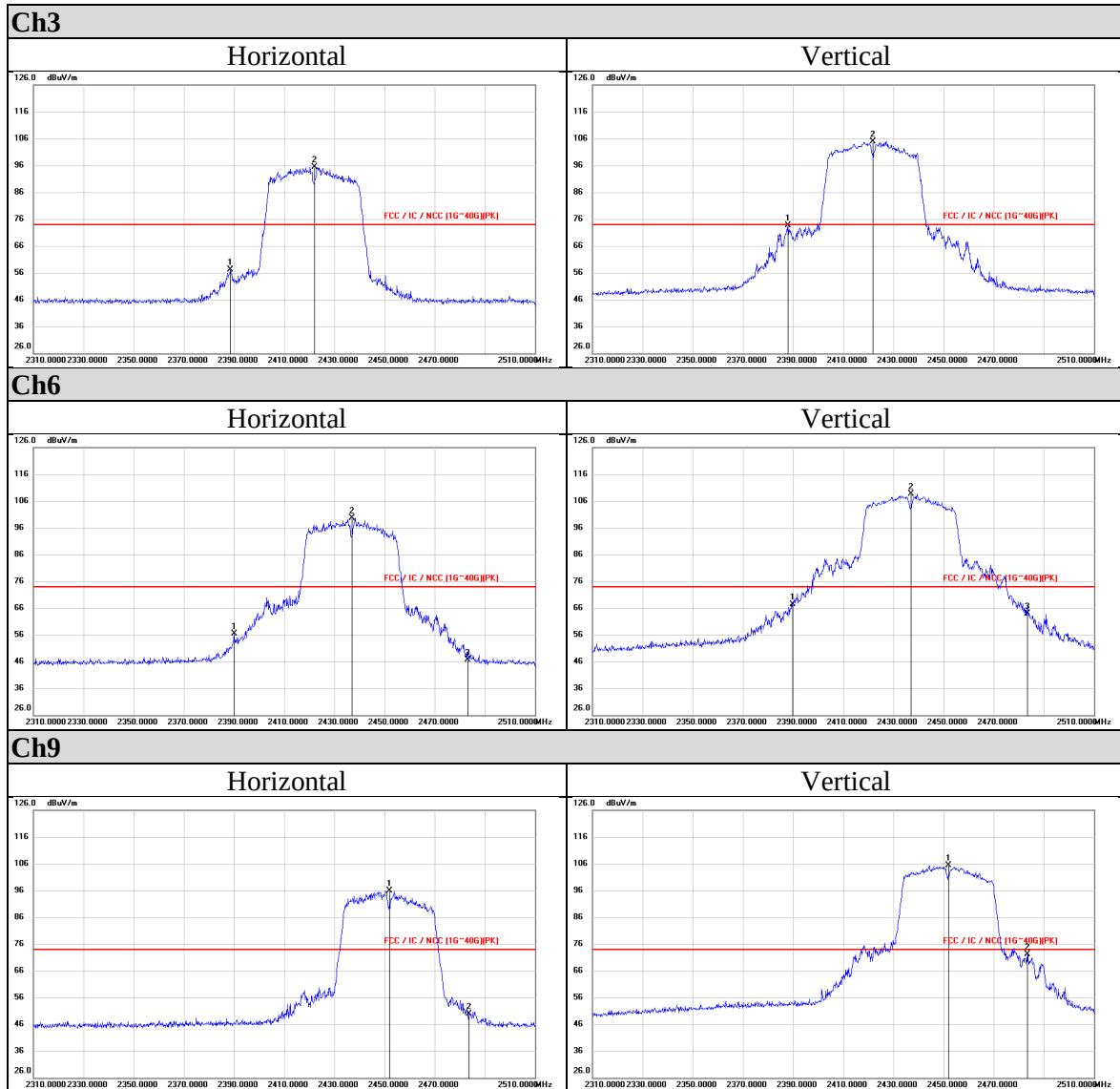
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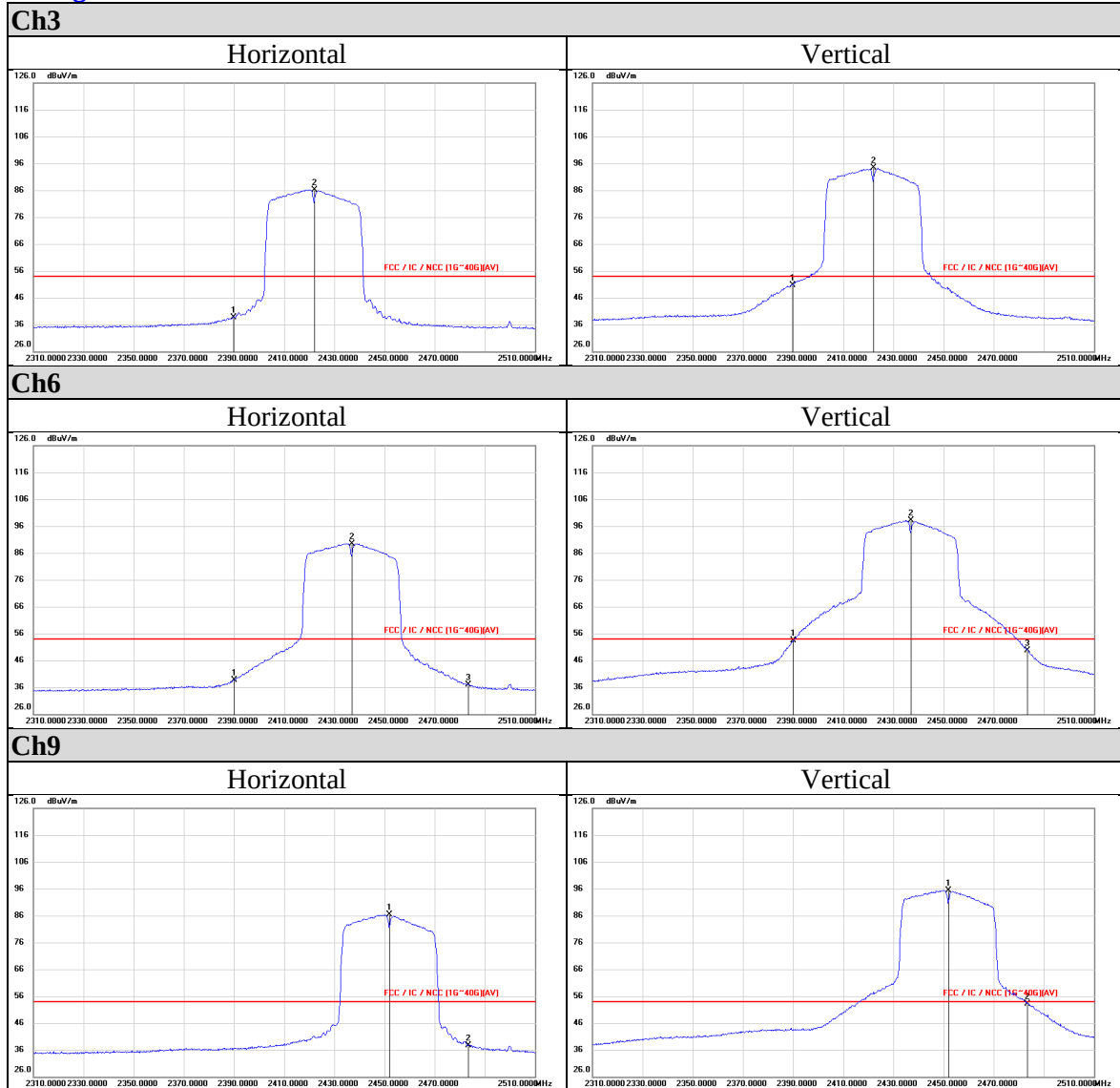


802.11n (HT40)
Peak





Average



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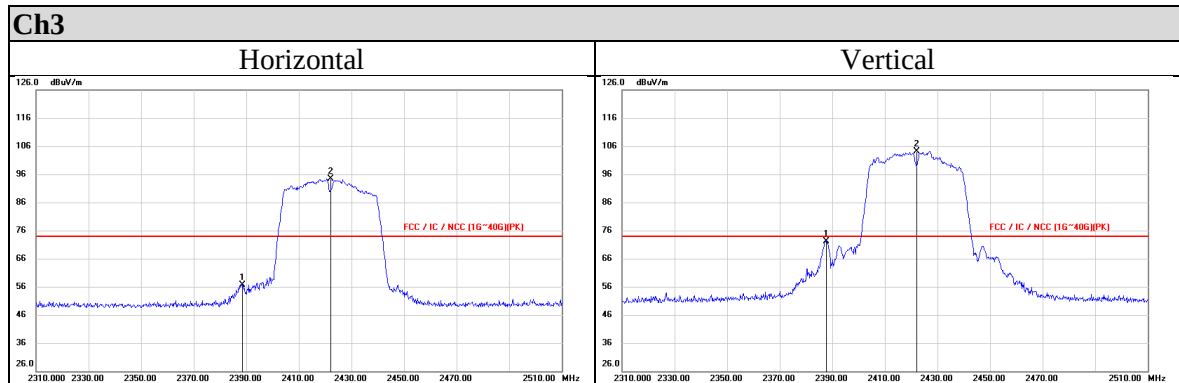


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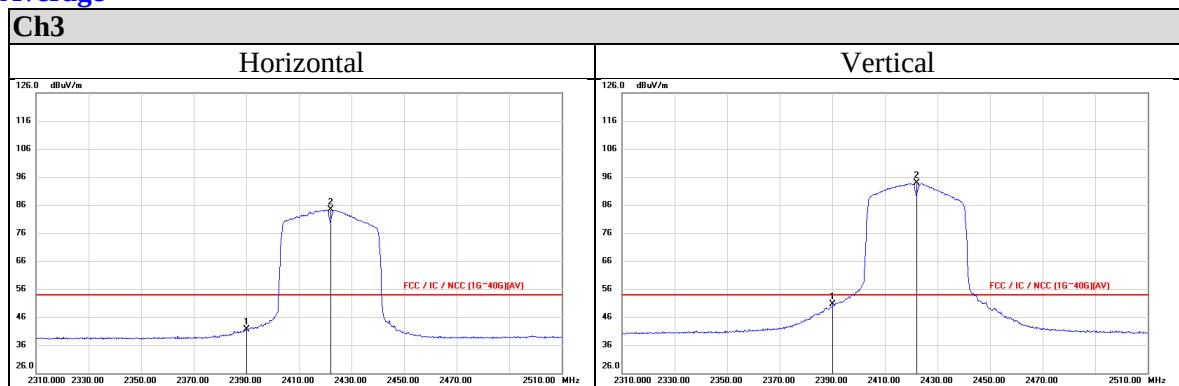
CDD Mode

802.11n (HT40)

Peak



Average



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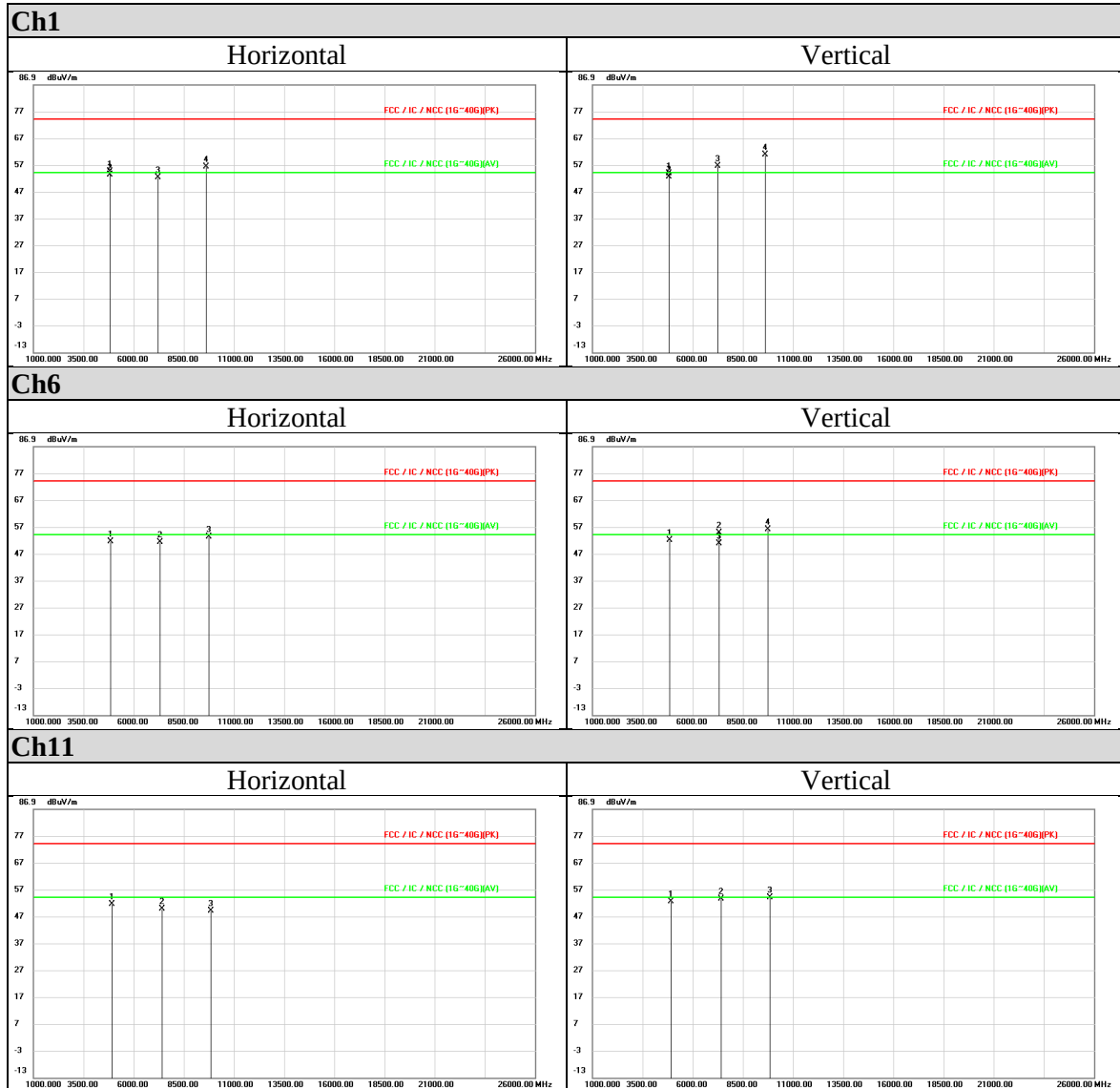


Appendix II Radiated Spurious Emission Measurement

Model: Vigor2915ac

CDD Mode

802.11b



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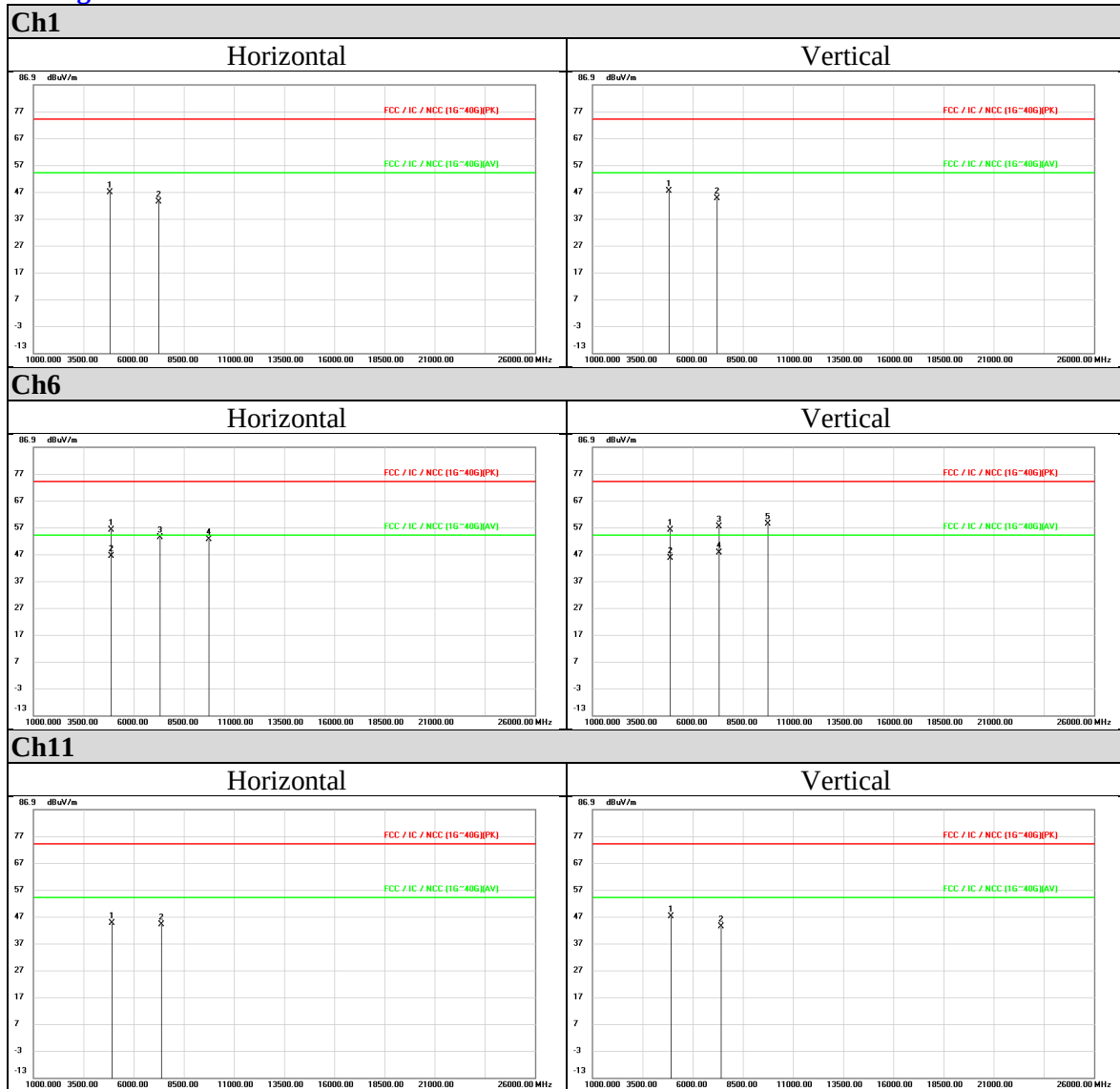
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802.11g



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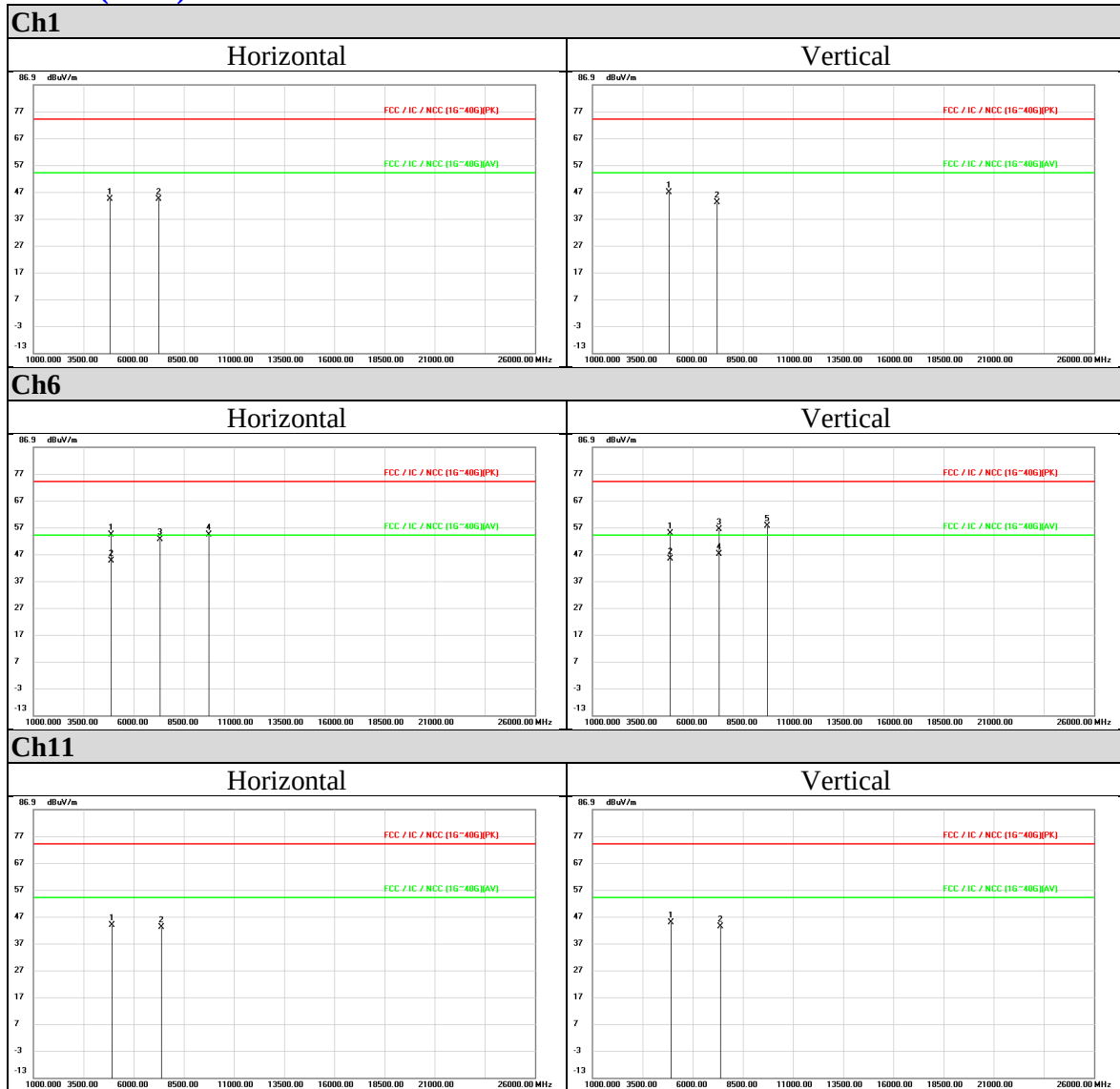
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802.11n (HT20)



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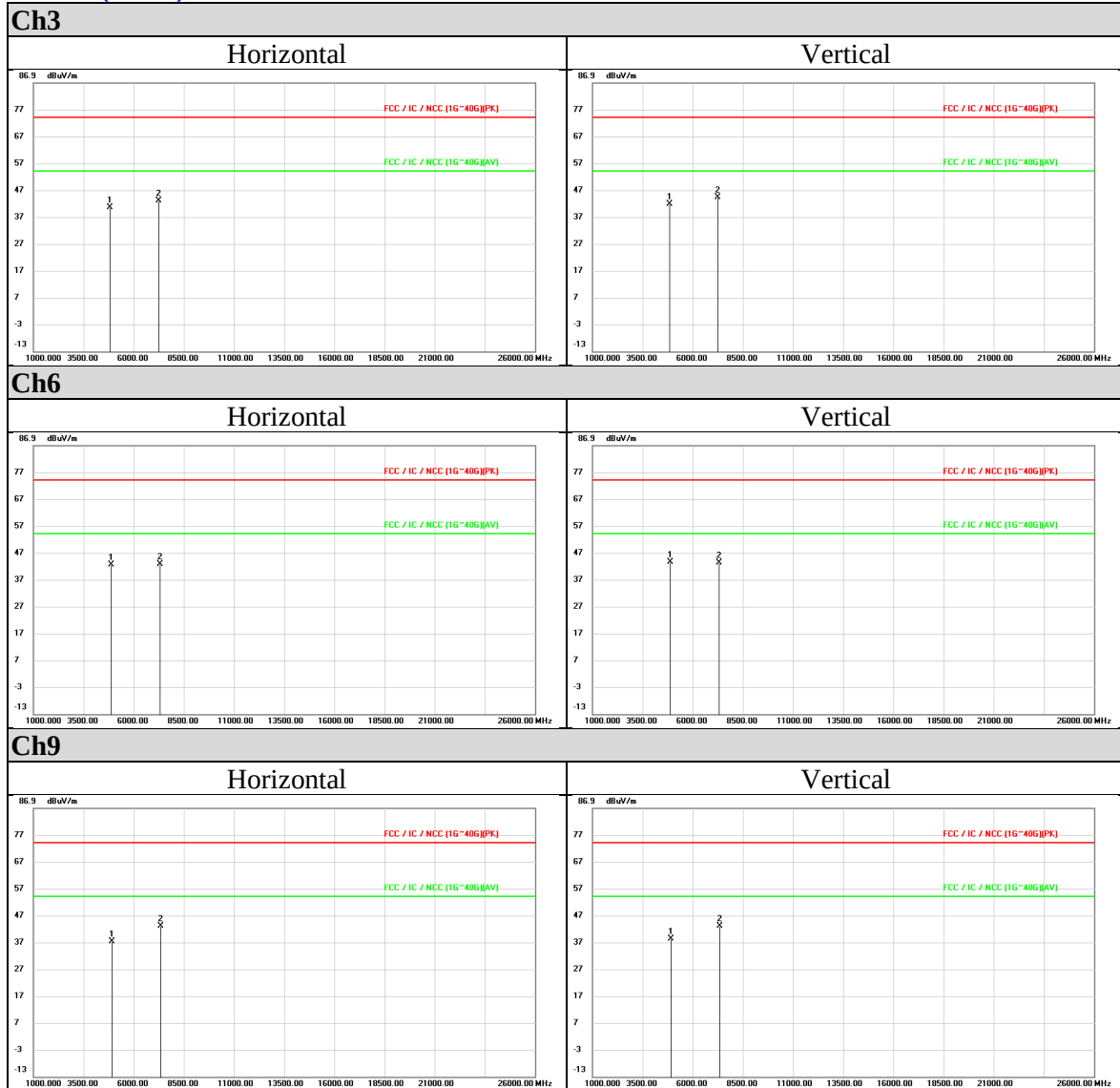
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802.11n (HT40)



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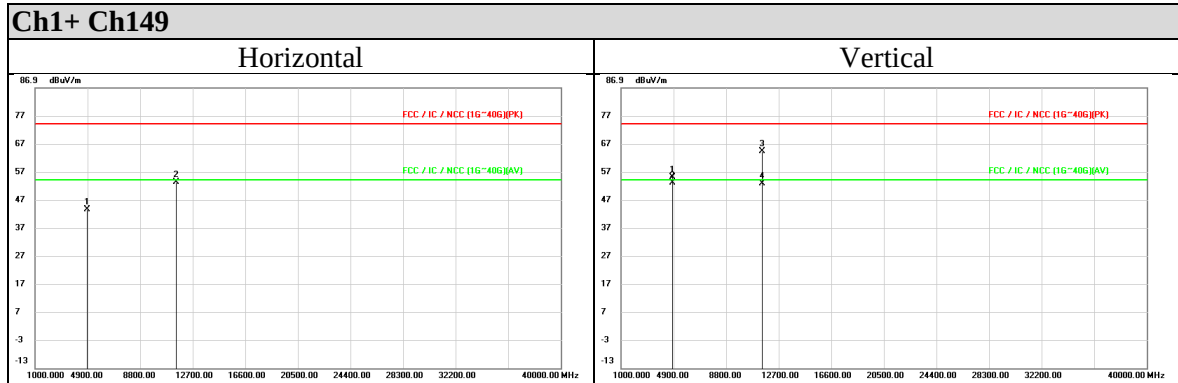
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Co-Location Mode

802.11b+802.11a



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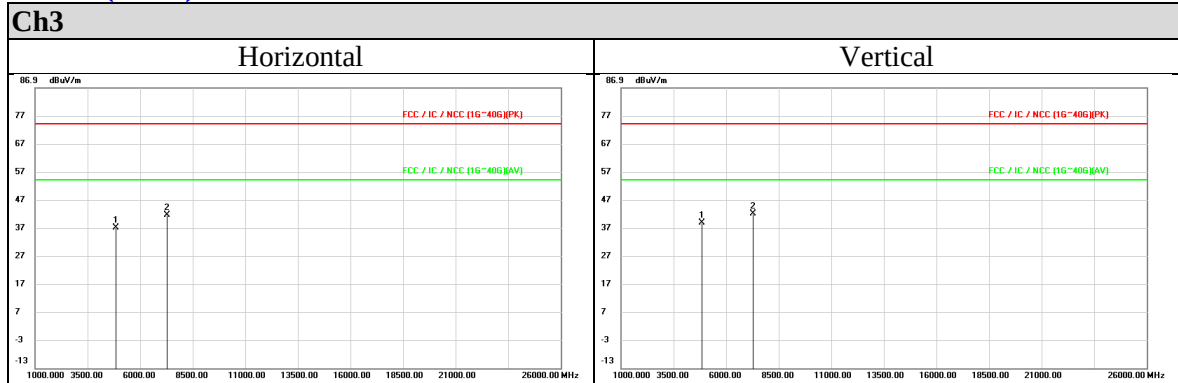


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Model: Vigor2915Fac

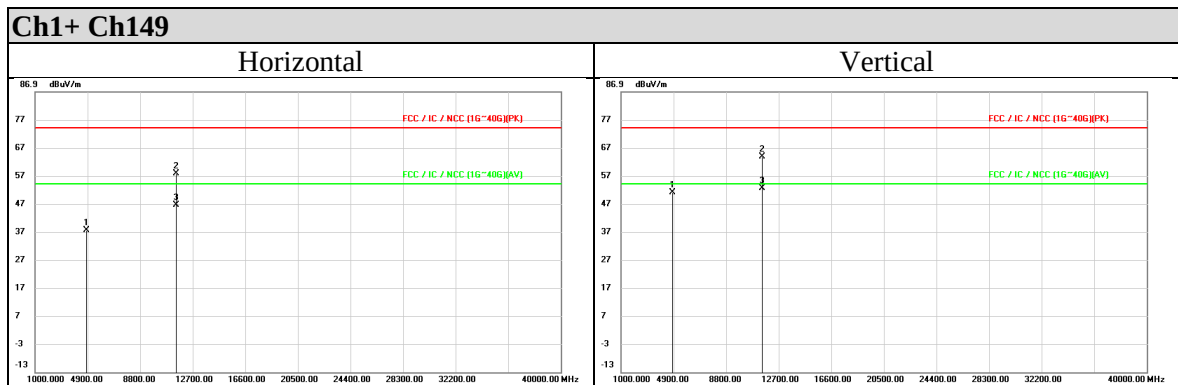
CDD Mode

802.11n (HT40)



Co-Location Mode

802.11b+802.11a



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