



Test report No. : 4789166774-US-R0-V0
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Issued date : Apr. 8, 2020
FCC ID : VGY2765

EUT Test Condition		Measurement Detail	
Channel	Channel 11	Frequency Range	1 GHz ~ 26.5 GHz

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)	
@	2462.000	94.60	2.31	96.91	-	-	peak
-	2498.933	49.78	2.41	52.19	74.00	-21.81	peak
@	2462.000	85.71	2.31	88.02	-	-	AVG
-	2483.500	37.79	2.37	40.16	54.00	-13.84	AVG
*	4924.000	40.89	-3.00	37.89	74.00	-36.11	peak
*	7386.000	38.44	3.94	42.38	74.00	-31.62	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)	
@	2462.000	106.61	2.31	108.92	-	-	peak
-	2483.500	66.69	2.37	69.06	74.00	-4.94	peak
@	2462.000	97.26	2.31	99.57	-	-	AVG
-	2483.500	51.10	2.37	53.47	54.00	-0.53	AVG
*	4924.000	45.20	-3.00	42.20	74.00	-31.80	peak
*	7386.000	38.79	3.94	42.73	74.00	-31.27	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. "@": Fundamental Frequency.
5. " * ": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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Doc No: 17-EM-F0876 / 5.0



802.11n (HT40)

EUT Test Condition		Measurement Detail	
Channel	Channel 3	Frequency Range	1 GHz ~ 26.5 GHz

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)	
-	2387.287	52.18	2.38	54.56	74.00	-19.44	peak
@	2422.000	90.85	2.35	93.20	-	-	peak
-	2483.500	47.59	2.37	49.96	74.00	-24.04	peak
-	2390.000	38.54	2.40	40.94	54.00	-13.06	AVG
@	2422.000	81.91	2.35	84.26	-	-	AVG
-	2483.500	36.95	2.37	39.32	54.00	-14.68	AVG
*	4844.000	41.54	-2.99	38.55	74.00	-35.45	peak
*	7266.000	39.51	3.45	42.96	74.00	-31.04	peak
*	12110.000	35.87	9.68	45.55	74.00	-28.45	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)	
-	2388.900	64.18	2.40	66.58	74.00	-7.42	peak
@	2422.000	101.98	2.35	104.33	-	-	peak
-	2483.500	50.61	2.37	52.98	74.00	-21.02	peak
-	2390.000	50.78	2.40	53.18	54.00	-0.82	AVG
@	2422.000	92.66	2.35	95.01	-	-	AVG
-	2483.500	40.21	2.37	42.58	54.00	-11.42	AVG
*	4844.000	45.31	-2.99	42.32	74.00	-31.68	peak
*	7266.000	39.10	3.45	42.55	74.00	-31.45	peak
*	12110.000	35.83	9.68	45.51	74.00	-28.49	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. "@": Fundamental Frequency.
5. " * ": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 6	Frequency Range	1 GHz ~ 26.5 GHz

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)	
-	2390.000	50.09	2.40	52.49	74.00	-21.51	peak
@	2437.000	93.72	2.31	96.03	-	-	peak
-	2483.500	48.15	2.37	50.52	74.00	-23.48	peak
-	2390.000	39.27	2.40	41.67	54.00	-12.33	AVG
@	2437.000	85.17	2.31	87.48	-	-	AVG
-	2483.500	37.28	2.37	39.65	54.00	-14.35	AVG
*	4874.000	41.07	-3.02	38.05	74.00	-35.95	peak
*	7311.000	39.21	3.59	42.80	74.00	-31.20	peak
*	12185.000	35.55	9.71	45.26	74.00	-28.74	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)	
-	2390.000	63.98	2.40	66.38	74.00	-7.62	peak
@	2437.000	104.63	2.31	106.94	-	-	peak
-	2483.500	60.43	2.37	62.80	74.00	-11.20	peak
-	2390.000	50.99	2.40	53.39	54.00	-0.61	AVG
@	2437.000	96.29	2.31	98.60	-	-	AVG
-	2483.500	47.03	2.37	49.40	54.00	-4.60	AVG
*	4874.000	42.16	-3.02	39.14	74.00	-34.86	peak
*	7311.000	39.29	3.59	42.88	74.00	-31.12	peak
*	12185.000	34.34	9.71	44.05	74.00	-29.95	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. "@": Fundamental Frequency.
5. " * ": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 9	Frequency Range	1 GHz ~ 26.5 GHz

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)	
@	2452.000	91.57	2.28	93.85	-	-	peak
-	2498.687	49.13	2.42	51.55	74.00	-22.45	peak
@	2452.000	82.35	2.28	84.63	-	-	AVG
-	2488.873	37.60	2.39	39.99	54.00	-14.01	AVG
*	4904.000	40.44	-3.04	37.40	74.00	-36.60	peak
*	7356.000	38.17	3.79	41.96	74.00	-32.04	peak
*	12260.000	34.63	9.71	44.34	74.00	-29.66	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)	
@	2452.000	102.92	2.28	105.20	-	-	peak
-	2483.500	64.68	2.37	67.05	74.00	-6.95	peak
@	2452.000	93.22	2.28	95.50	-	-	AVG
-	2484.500	51.06	2.37	53.43	54.00	-0.57	AVG
*	4904.000	41.78	-3.04	38.74	74.00	-35.26	peak
*	7356.000	38.55	3.79	42.34	74.00	-31.66	peak
*	12260.000	34.87	9.71	44.58	74.00	-29.42	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. "@": Fundamental Frequency.
5. " * ": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. 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 6 + Channel 48	Frequency Range	1 GHz ~ 40 GHz

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)	
*	1334.100	52.62	-10.01	42.61	74.00	-31.39	peak
*	4874.000	49.60	-3.02	46.58	74.00	-27.42	peak
-	15720.000	46.94	12.34	59.28	74.00	-14.72	peak
-	15720.000	39.83	12.34	52.17	54.00	-1.83	AVG
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)	
-	4874.000	62.01	-3.02	58.99	74.00	-15.01	peak
-	4874.000	56.53	-3.02	53.51	54.00	-0.49	AVG
-	15720.000	43.93	12.34	56.27	74.00	-17.73	peak
-	15720.000	41.02	12.34	53.36	54.00	-0.64	AVG

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 AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

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9 kHz ~ 30 MHz Data

For 9 kHz to 30 MHz radiated emission have performed all modes of operation were investigated. The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

No non-compliance noted:

KDB 414788 D01 OATS and Chamber Correlation Justification

- Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

- OATs and chamber correlation testing had been performed and chamber measured test results is the worst case test result.

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30m open area test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

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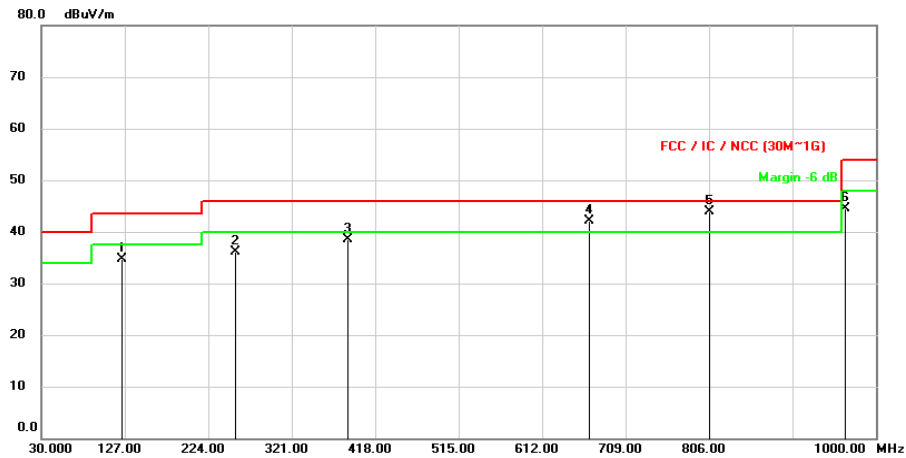
30 MHz ~ 1 GHz Data

Non-Beamforming Mode

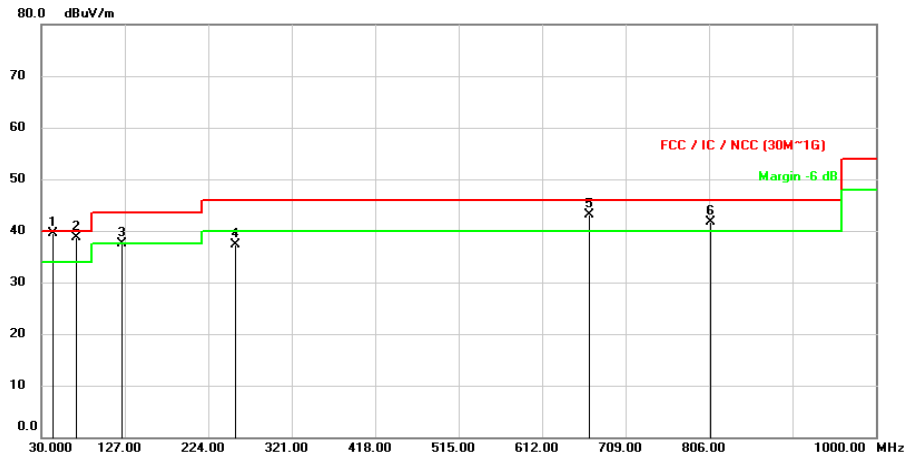
802.11n (HT20)

EUT Test Condition		Measurement Detail	
Channel	Channel 11	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	52.11	-17.46	34.65	43.50	-8.85	peak
*	255.0077	51.85	-15.65	36.20	46.00	-9.80	peak
*	385.8929	50.43	-11.86	38.57	46.00	-7.43	peak
*	666.6757	48.13	-5.99	42.14	46.00	-3.86	peak
*	807.0670	47.74	-3.83	43.91	46.00	-2.09	peak
*	964.9183	46.07	-1.48	44.59	54.00	-9.41	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)	
-	43.9680	54.70	-15.24	39.46	40.00	-0.54	QP
-	70.7077	56.31	-17.67	38.64	40.00	-1.36	QP
*	124.9953	54.99	-17.46	37.53	43.50	-5.97	peak
*	255.0077	53.05	-15.65	37.40	46.00	-8.60	peak
*	666.6757	49.15	-5.99	43.16	46.00	-2.84	peak
*	807.0023	45.54	-3.83	41.71	46.00	-4.29	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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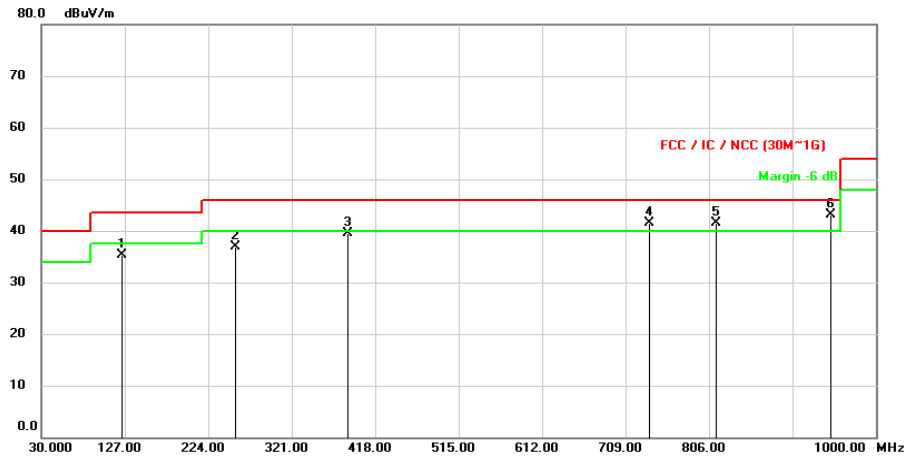


Co-Location Mode

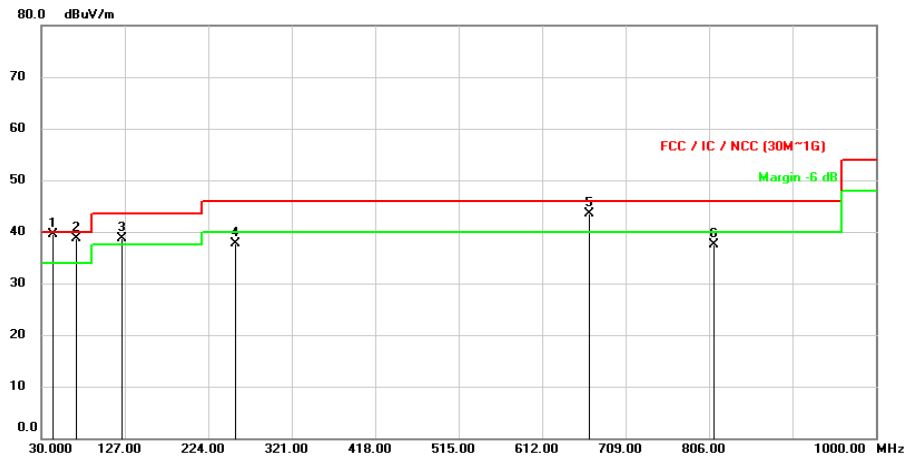
802.11b+802.11a

EUT Test Condition		Measurement Detail	
Channel	Channel 6 + Channel 48	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	52.78	-17.46	35.32	43.50	-8.18	peak
*	255.0077	52.56	-15.65	36.91	46.00	-9.09	peak
*	385.9900	51.43	-11.86	39.57	46.00	-6.43	peak
*	736.8713	46.31	-4.81	41.50	46.00	-4.50	peak
*	813.3397	45.31	-3.75	41.56	46.00	-4.44	peak
*	947.4907	44.66	-1.65	43.01	46.00	-2.99	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)	
-	44.2590	54.70	-15.22	39.48	40.00	-0.52	QP
-	70.4490	56.33	-17.61	38.72	40.00	-1.28	QP
*	124.9953	56.08	-17.46	38.62	43.50	-4.88	peak
*	255.0077	53.38	-15.65	37.73	46.00	-8.27	peak
*	666.6433	49.54	-5.99	43.55	46.00	-2.45	peak
*	811.8523	41.24	-3.77	37.47	46.00	-8.53	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 (dBμV)	
	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.

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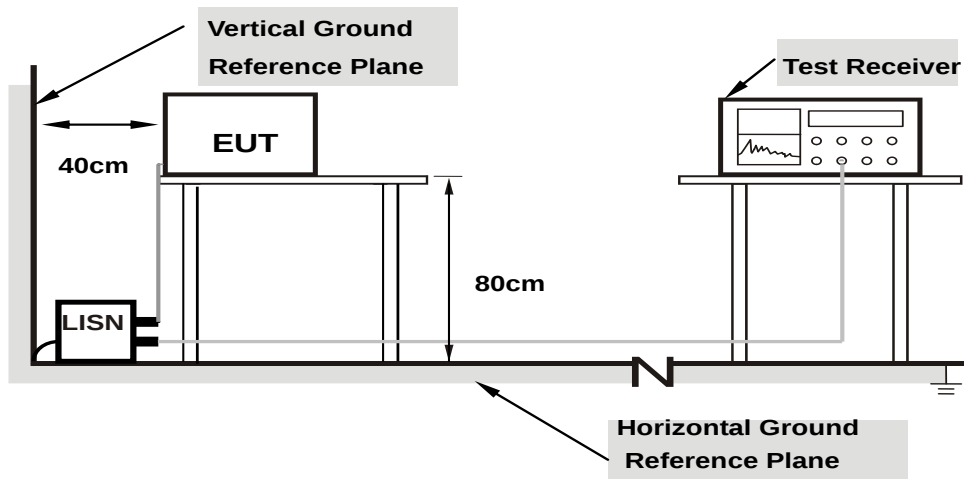
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Test Setup



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

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

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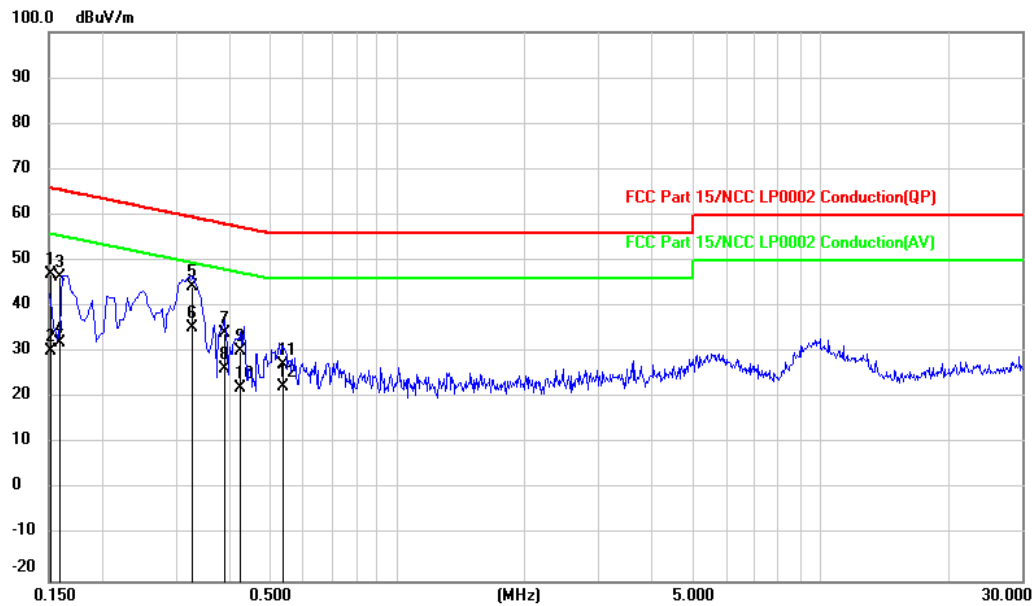


Test Data

802.11n (HT20)

EUT Test Condition		Measurement Detail	
Channel	Channel 11	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	0.1520	27.46	19.62	47.08	65.89	-18.81	QP
2	0.1520	10.65	19.62	30.27	55.89	-25.62	AVG
3	0.1590	26.95	19.62	46.57	65.52	-18.95	QP
4	0.1590	12.54	19.62	32.16	55.52	-23.36	AVG
5	0.3266	24.86	19.61	44.47	59.54	-15.07	QP
6	0.3266	15.87	19.61	35.48	49.54	-14.06	AVG
7	0.3888	14.57	19.61	34.18	58.09	-23.91	QP
8	0.3888	6.86	19.61	26.47	48.09	-21.62	AVG
9	0.4298	10.74	19.61	30.35	57.26	-26.91	QP
10	0.4298	2.42	19.61	22.03	47.26	-25.23	AVG
11	0.5351	7.78	19.61	27.39	56.00	-28.61	QP
12	0.5351	2.89	19.61	22.50	46.00	-23.50	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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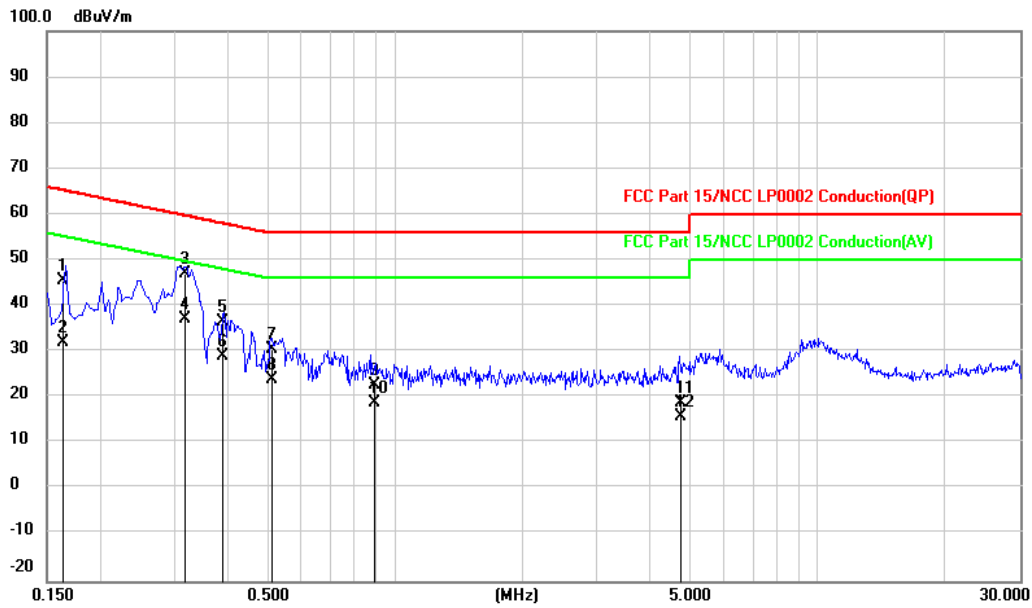
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Phase of Power : Neutral (N)



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Test report No. : 4789166774-US-R0-V0
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Issued date : Apr. 8, 2020
FCC ID : VGY2765

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	dB	(dBuV)	(dBuV)	(dB)	
1	0.1631	25.96	19.62	45.58	65.30	-19.72	QP
2	0.1631	12.41	19.62	32.03	55.30	-23.27	AVG
3	0.3196	27.41	19.62	47.03	59.72	-12.69	QP
4	0.3196	17.68	19.62	37.30	49.72	-12.42	AVG
5	0.3899	16.92	19.62	36.54	58.07	-21.53	QP
6	0.3899	9.41	19.62	29.03	48.07	-19.04	AVG
7	0.5124	10.90	19.62	30.52	56.00	-25.48	QP
8	0.5124	4.48	19.62	24.10	46.00	-21.90	AVG
9	0.8890	3.13	19.62	22.75	56.00	-33.25	QP
10	0.8890	-0.77	19.62	18.85	46.00	-27.15	AVG
11	4.7492	-0.94	19.71	18.77	56.00	-37.23	QP
12	4.7492	-3.74	19.71	15.97	46.00	-30.03	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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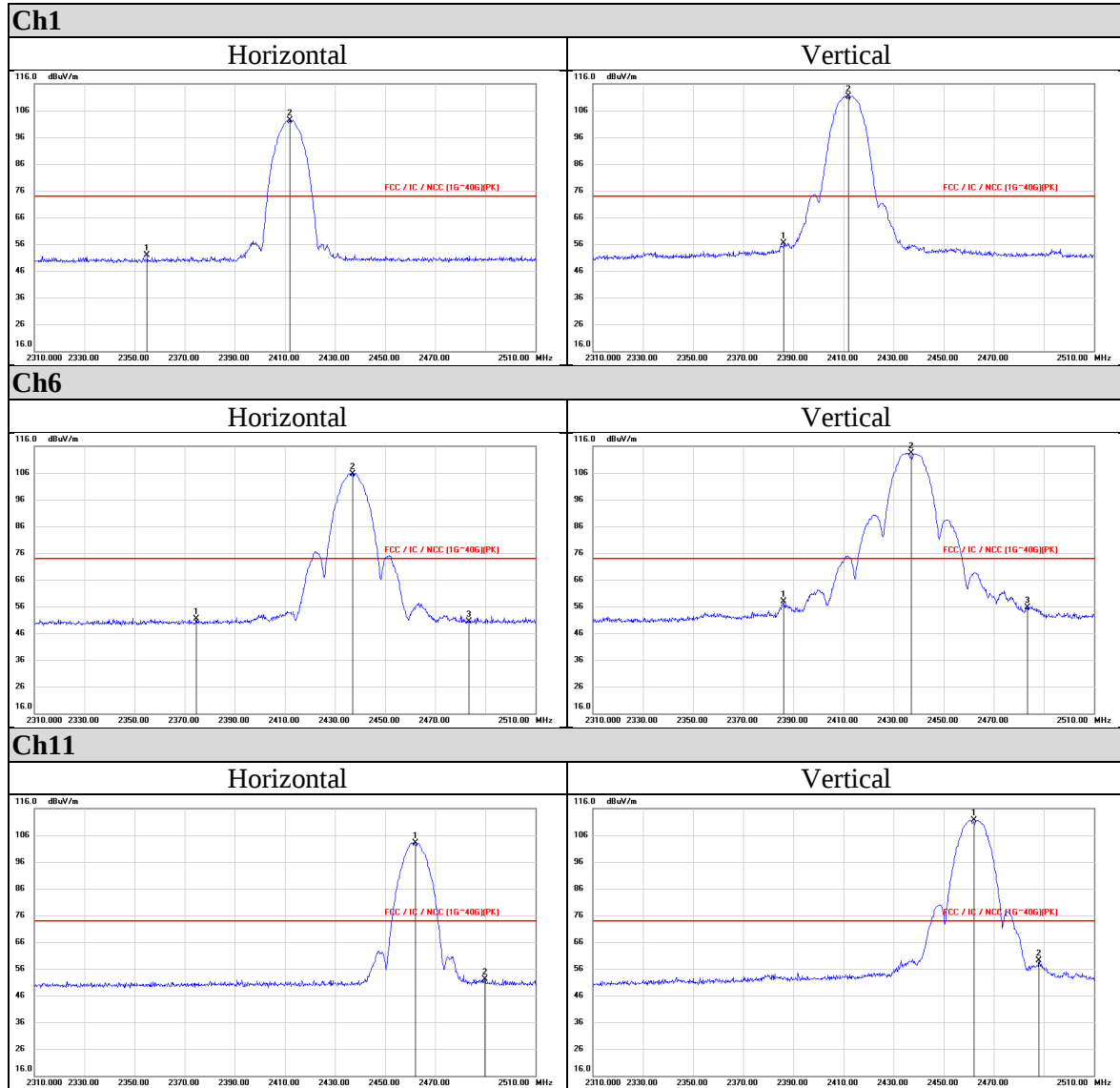


Appendix I Radiated Band Edge Measurement

Non-Beamforming Mode

802.11b

Peak



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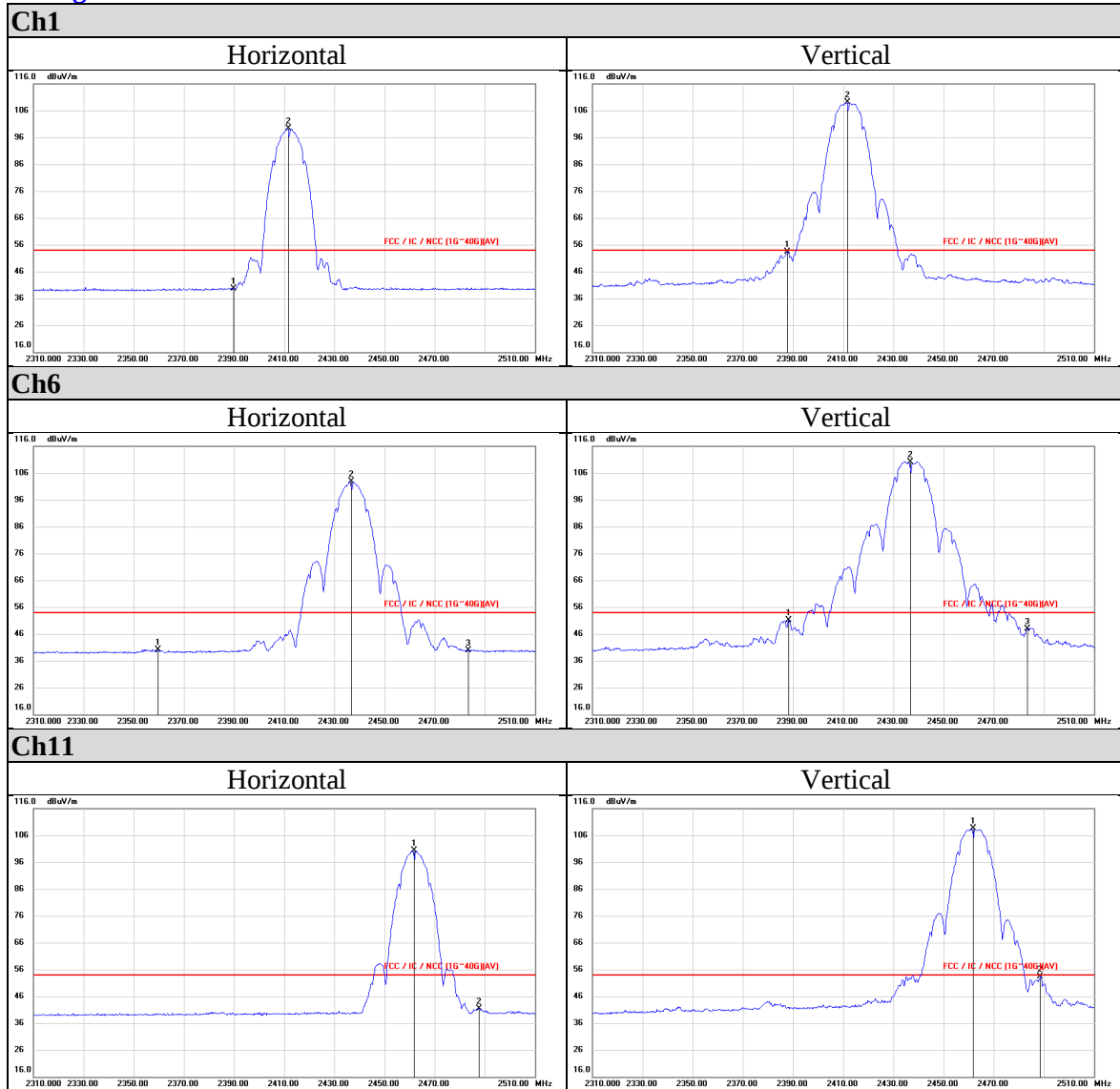
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Average



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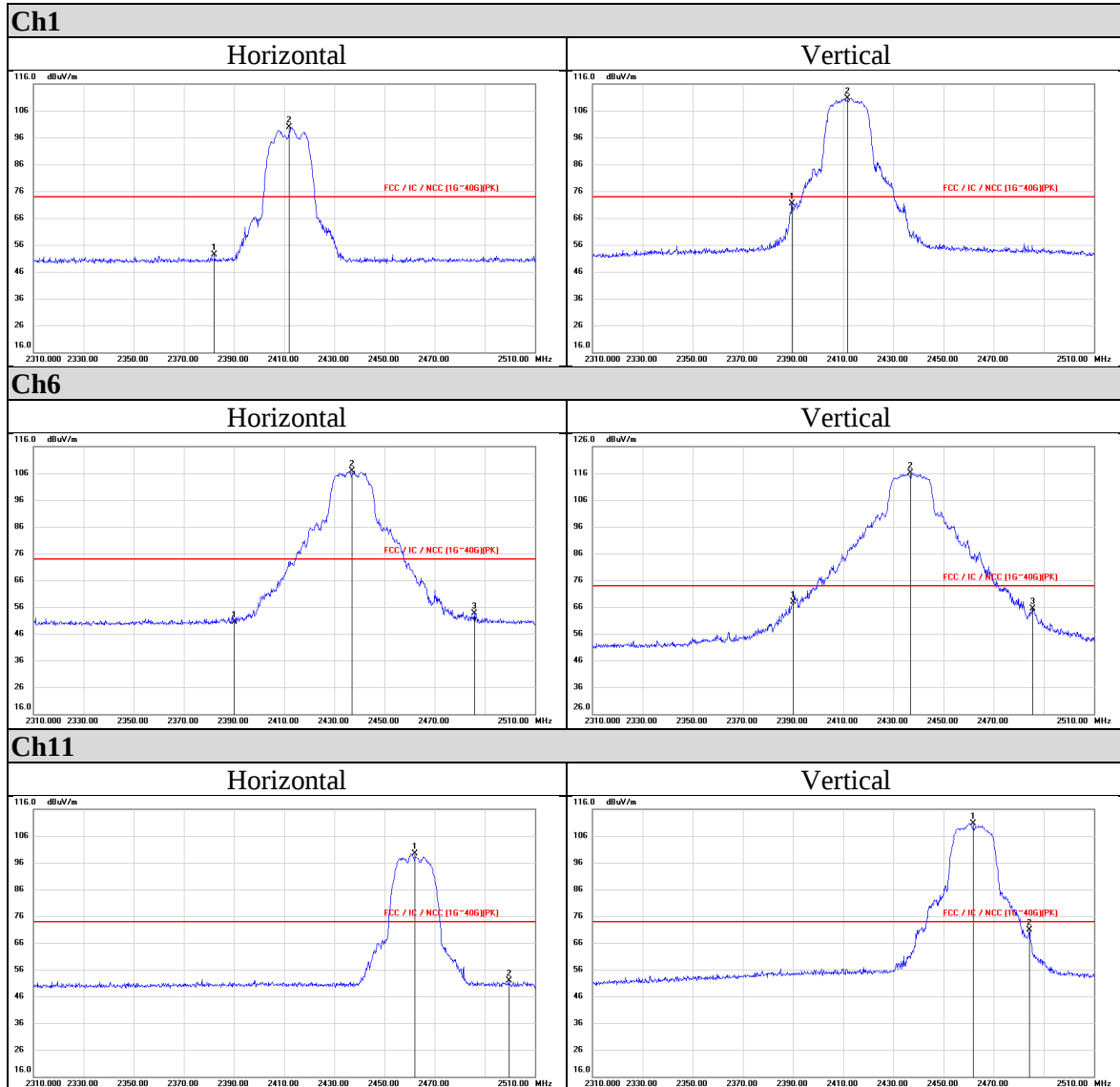
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802.11g

Peak



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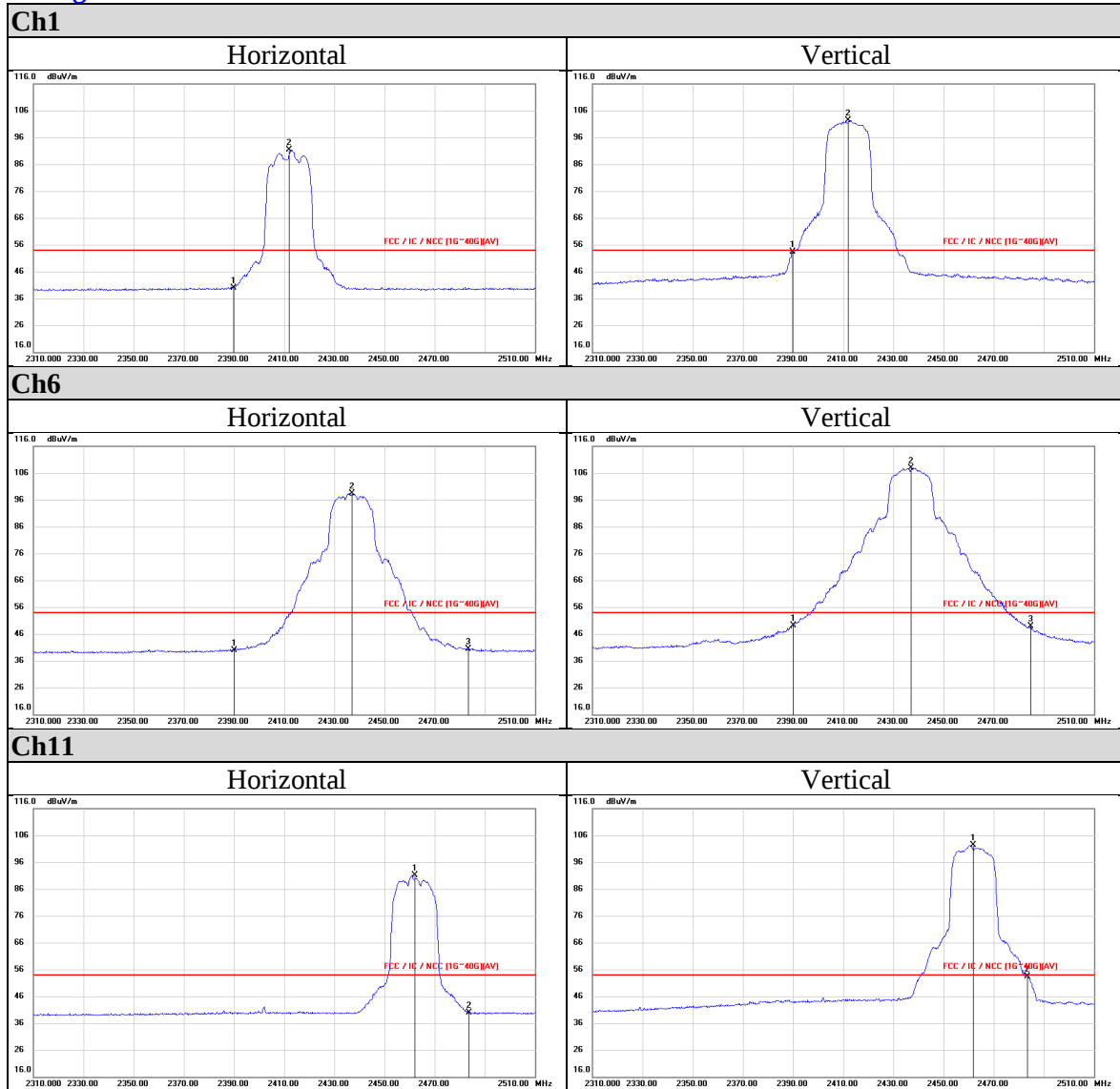
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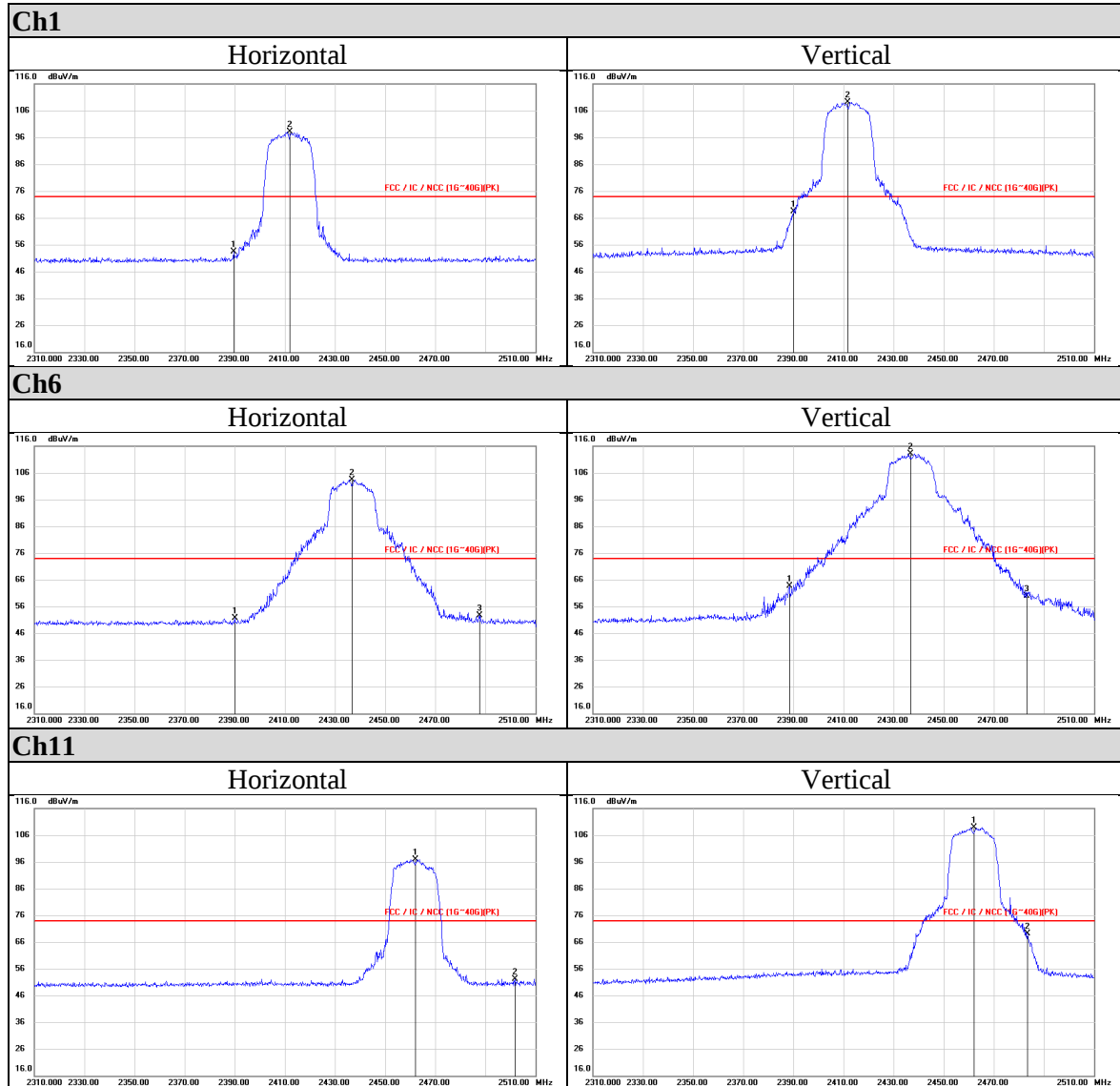
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802.11n (HT20)

Peak



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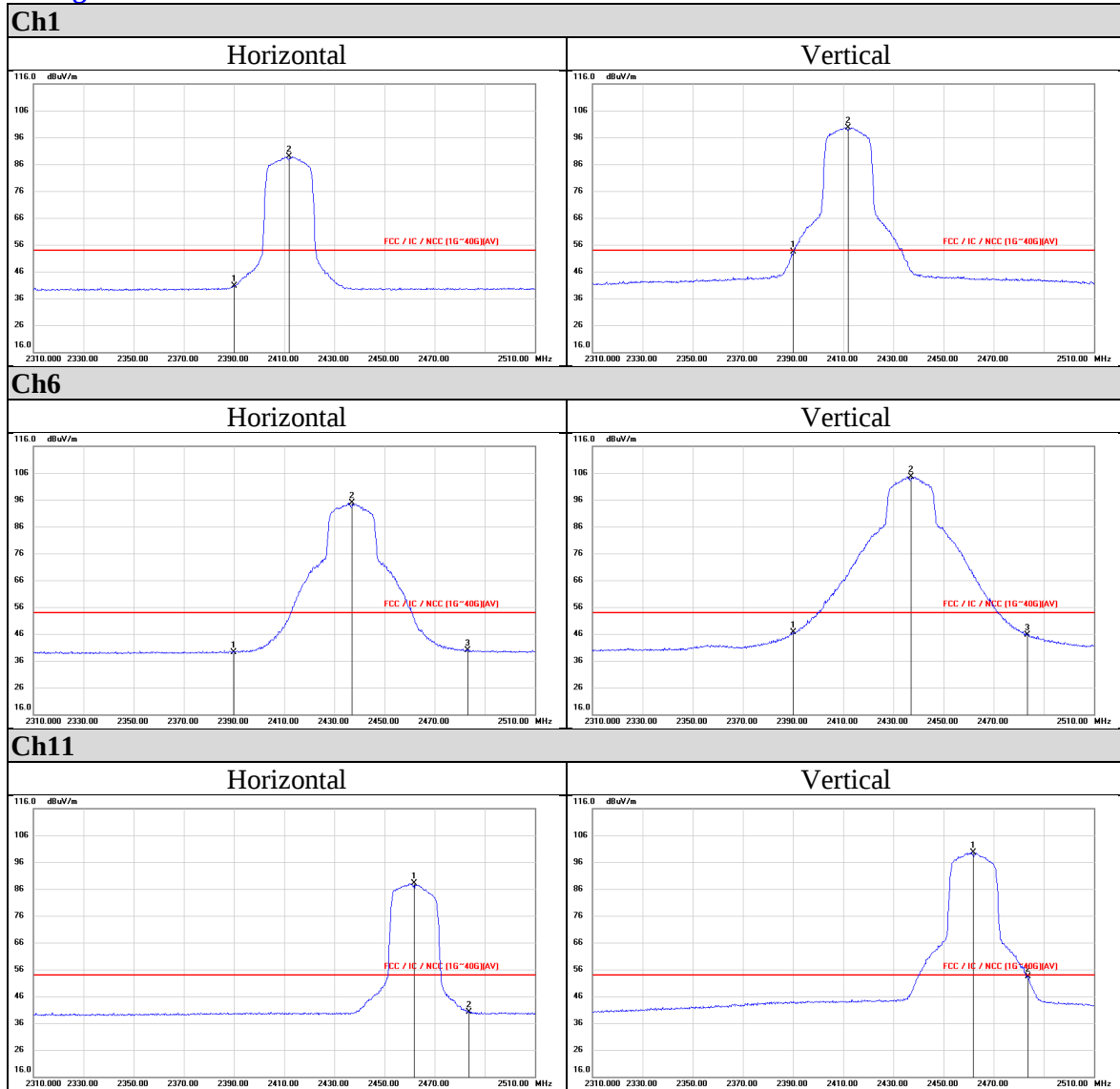
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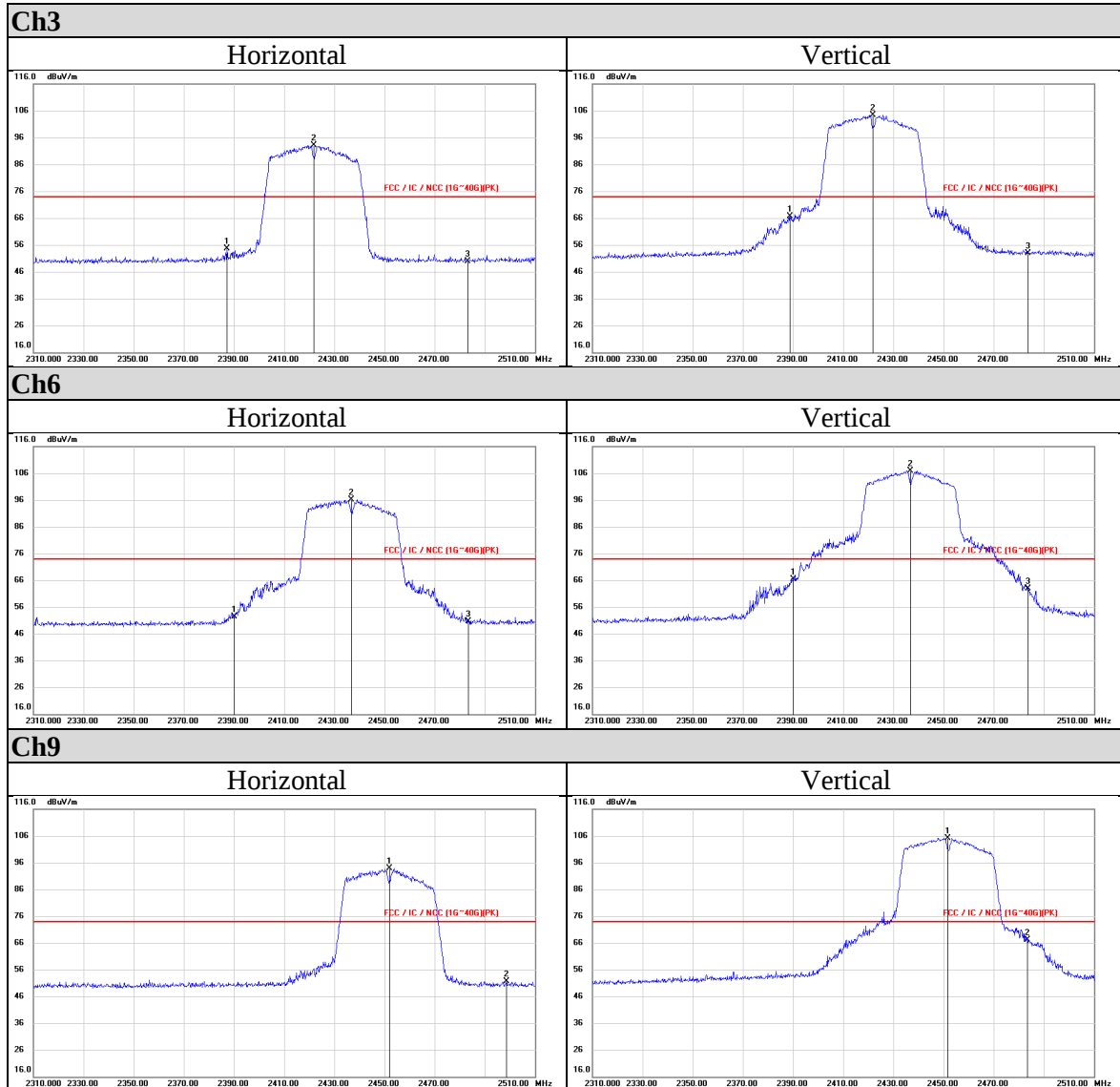
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802.11n (HT40)

Peak



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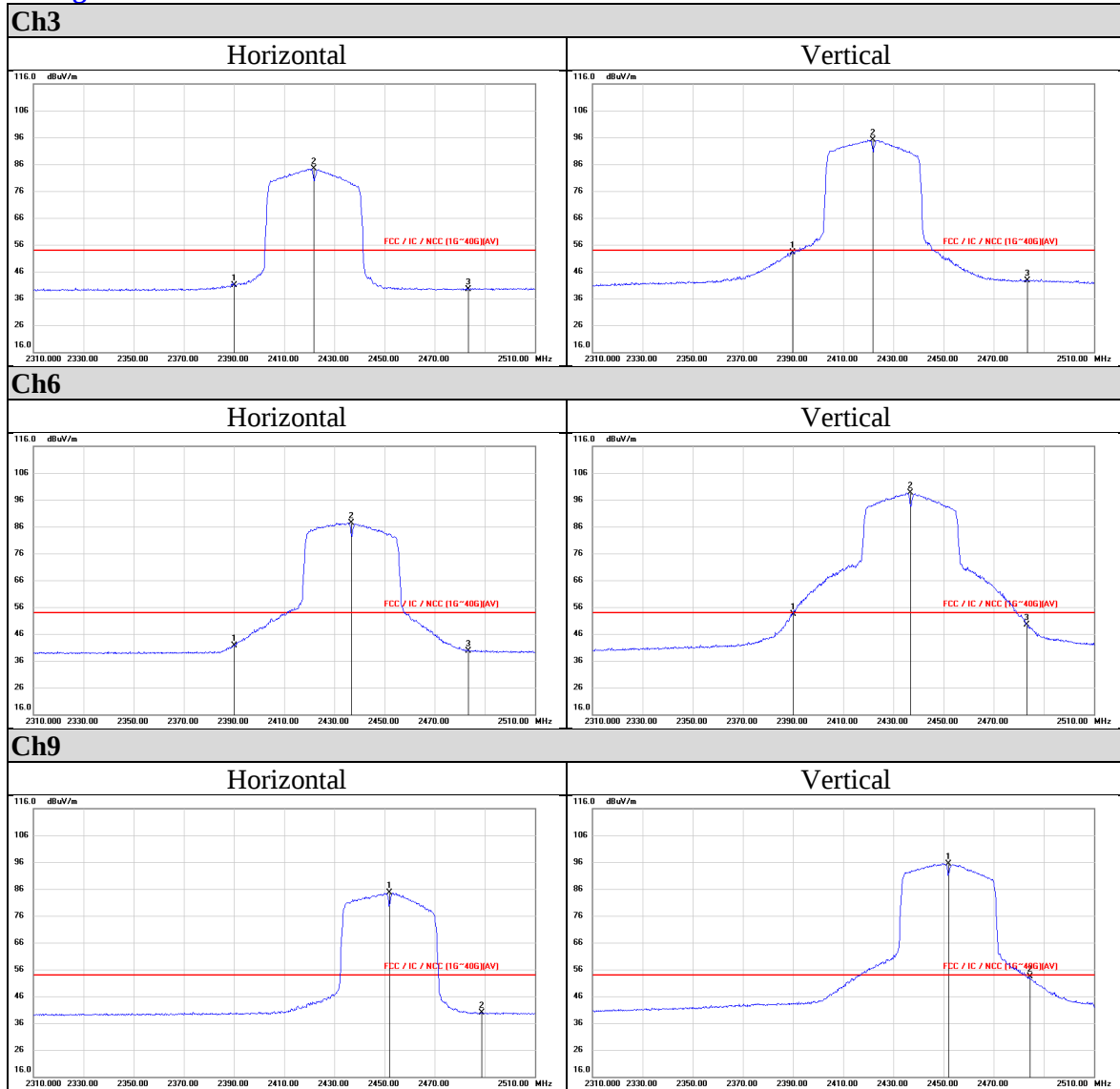
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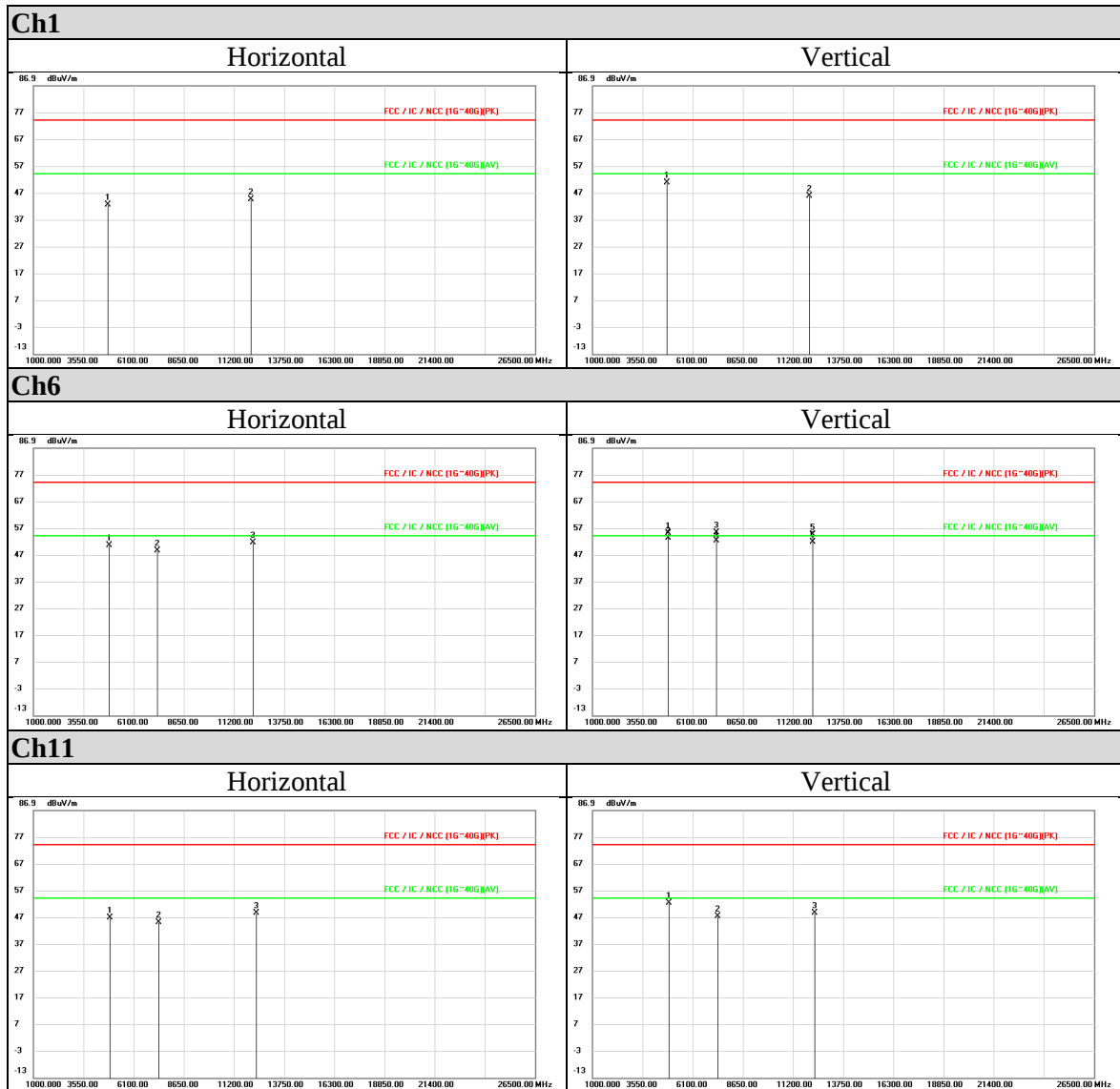
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Appendix II Radiated Spurious Emission Measurement

Non-Beamforming Mode

802.11b



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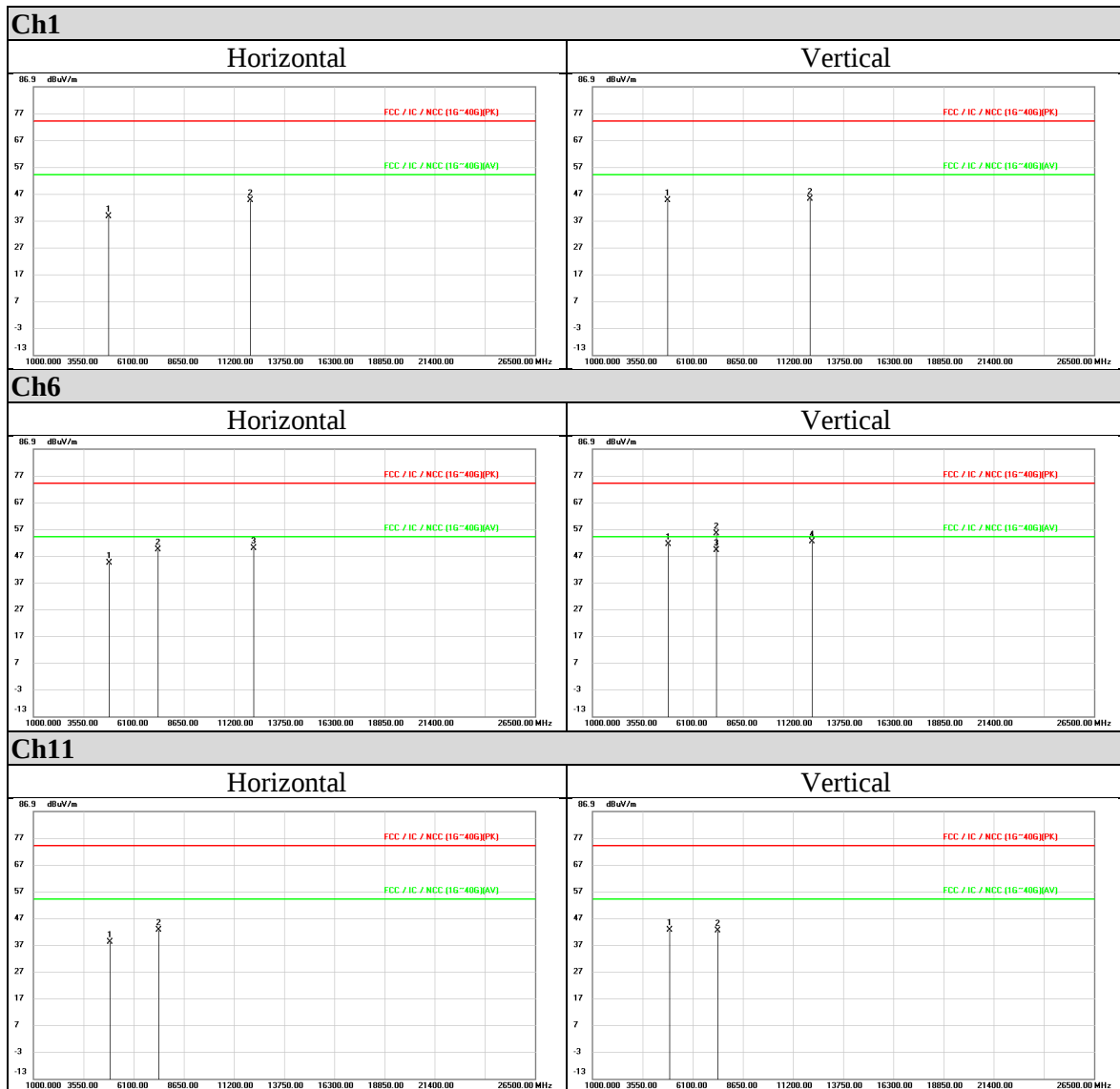
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802.11g



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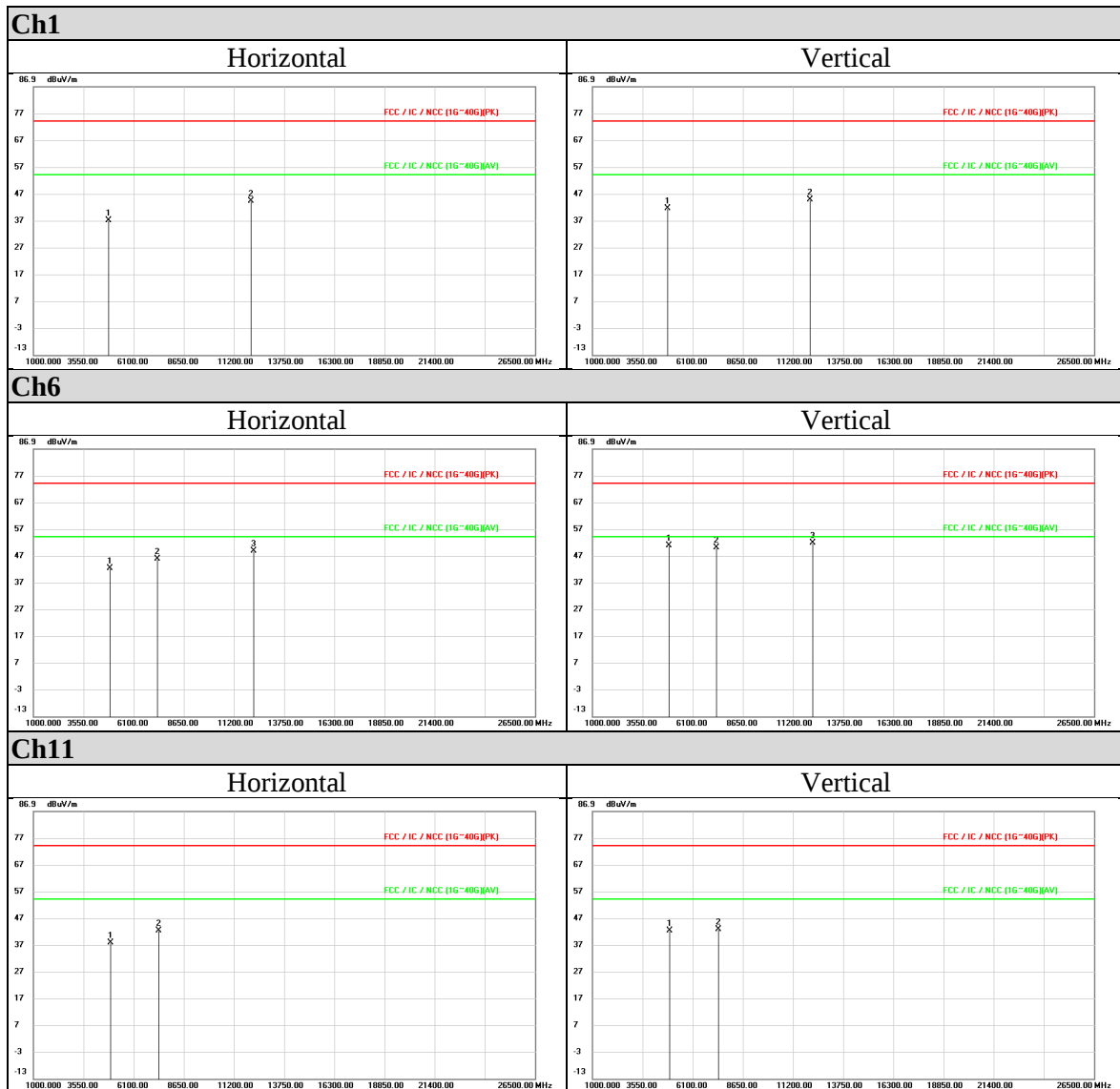
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802.11n (HT20)



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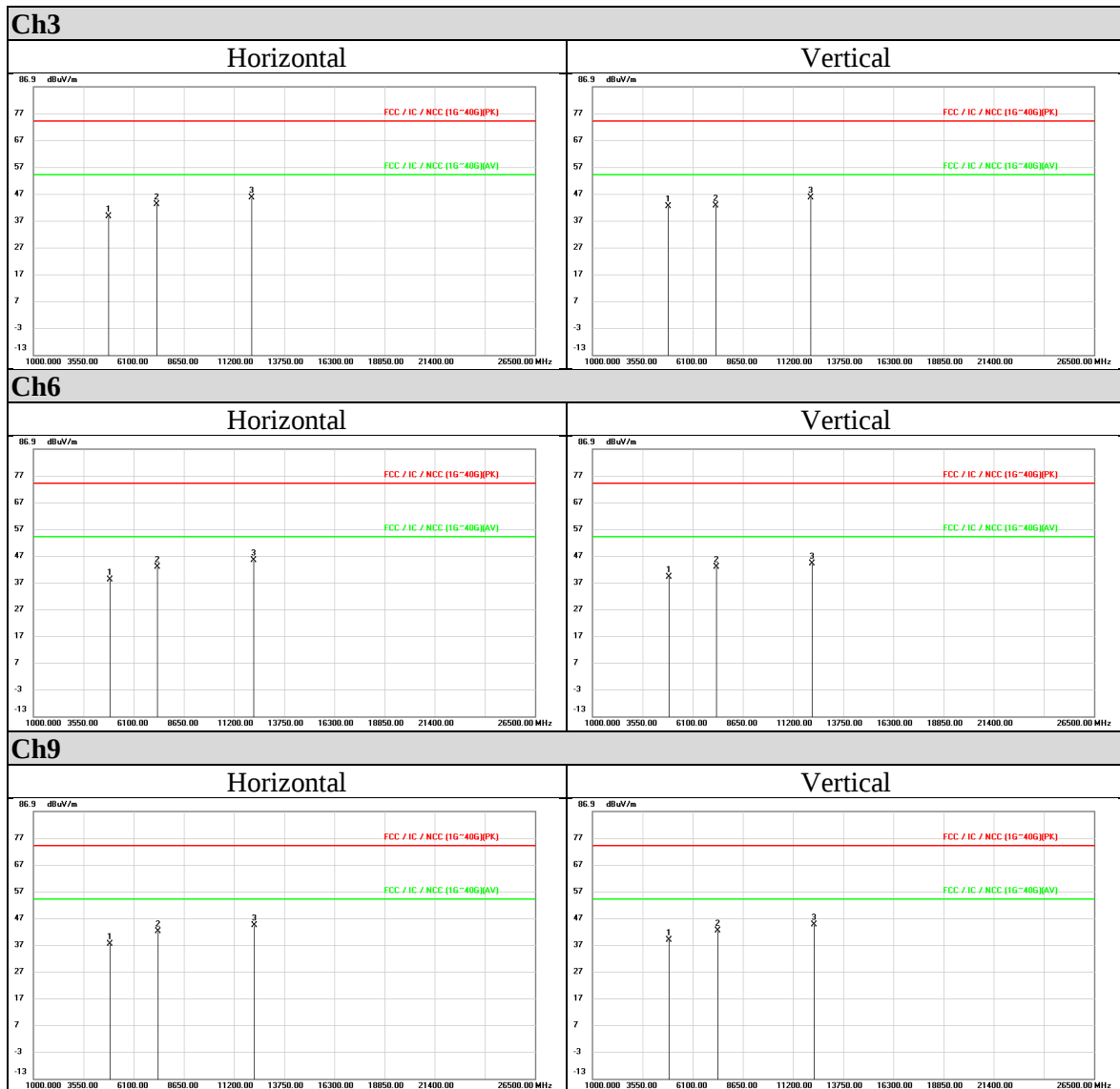
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802.11n (HT40)



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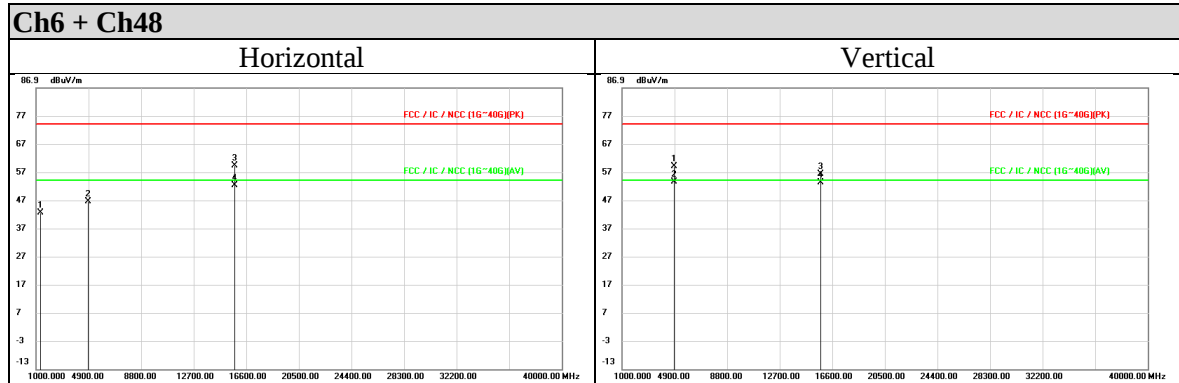
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Co-Location Mode

802.11b+802.11a



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