

ANNEX A: Test Result

The radiated emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in lie-down position (X axis) and the loop antenna is vertical, the others are vertical and horizontal. and the worst case was recorded.

1. Unwanted Emission

1.1. Halow Wi-Fi

The following graphs display the maximum values of horizontal and vertical by software.
Blue trace uses the peak detection, Green trace uses the average detection.

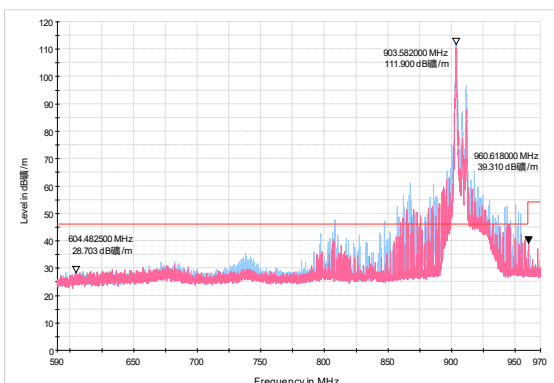
A symbol ($\text{dB}\mu\text{V/m}$) in the test plot below means ($\text{dB}\mu\text{V/m}$)

A symbol ($\text{dB}\mu\text{V}$) in the test plot below means ($\text{dB}\mu\text{V/m}$)

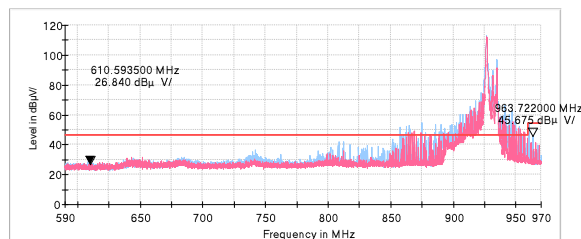
The signal beyond the limit is carrier.

Antenna 1

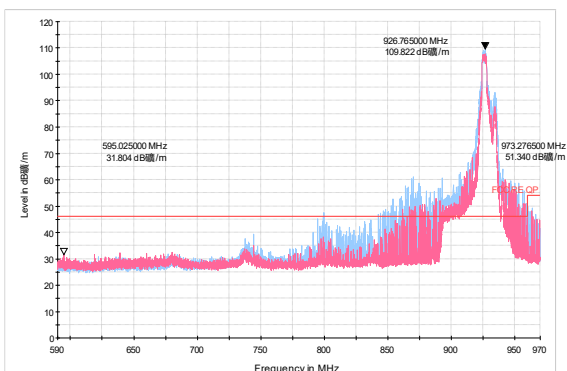
After the pretest, Halow Wi-Fi (1M) was selected as the worst Mode for Halow Wi-Fi.



Halow Wi-Fi (1M)-903.5MHz Peak+ Average



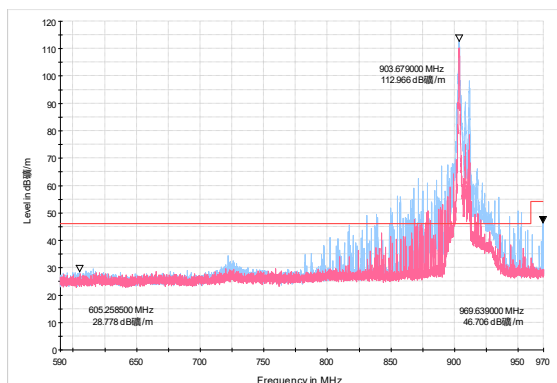
Halow Wi-Fi (1M) -926.5MHz Peak+ Average



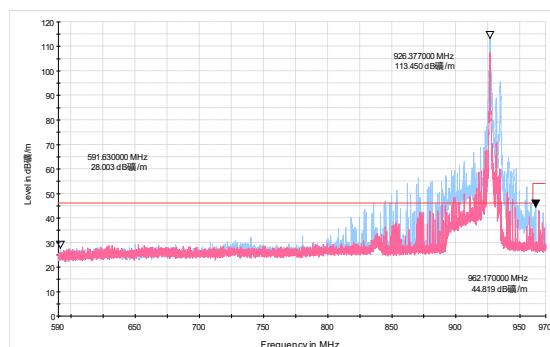
Halow Wi-Fi (4)-926MHz Peak+ Average

Antenna 2

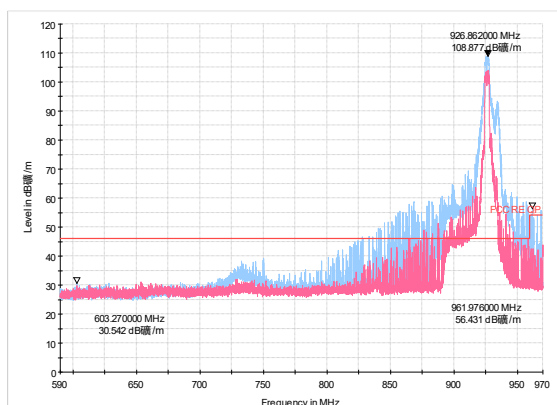
After the pretest, Halow Wi-Fi (1M) was selected as the worst Mode for Halow Wi-Fi.



Halow Wi-Fi (1M)-903.5MHz Peak+ Average



Halow Wi-Fi (1M) -926.5MHz Peak+ Average



Halow Wi-Fi (4)-926MHz Peak+ Average

Result of RE

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier.

Remark:

1. **Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)**
2. **Margin = Limit – Quasi-Peak/ MAX Peak/ Average**
3. **A symbol ($\text{dB } \mu\text{V/m}$) in the test plot below means ($\text{dB}\mu\text{V/m}$)**
4. **The following graphs display the maximum values of horizontal and vertical by software.**
5. **For below 1GHz**

~ QP Level @Spectrum Overview H
 ~ QP Level @Spectrum Overview V
 ◆ QP Level @Final Results
 — QP Limit

For above 1GHz

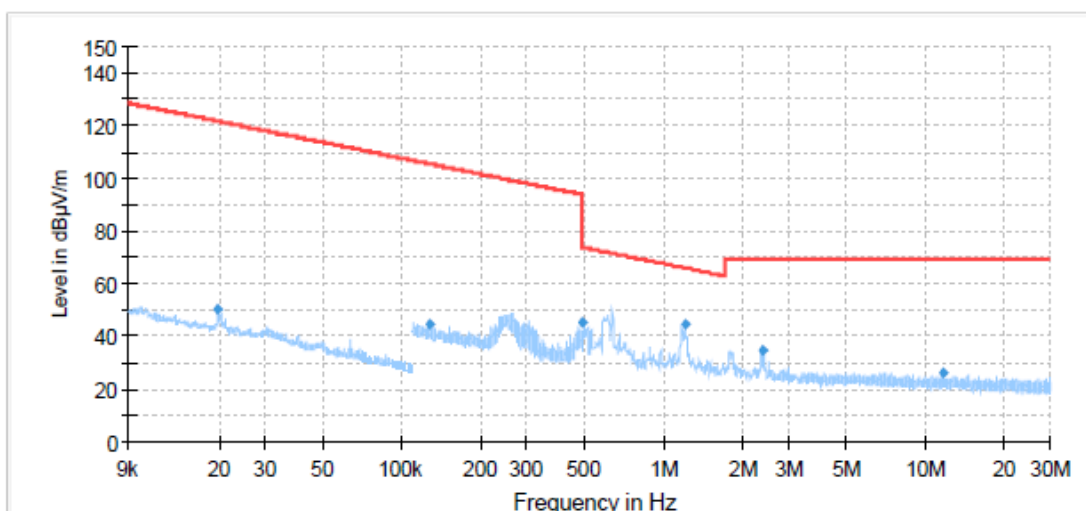
~ PK Level @Spectrum Overview H
 ~ PK Level @Spectrum Overview V
 ◆ PK Level @Final Results
 — PK Limit
~ AVG Level @Spectrum Overview H
 ~ AVG Level @Spectrum Overview V
 ◆ AVG Level @Final Results
 — AVG Limit

Continuous TX mode:

Antenna 1

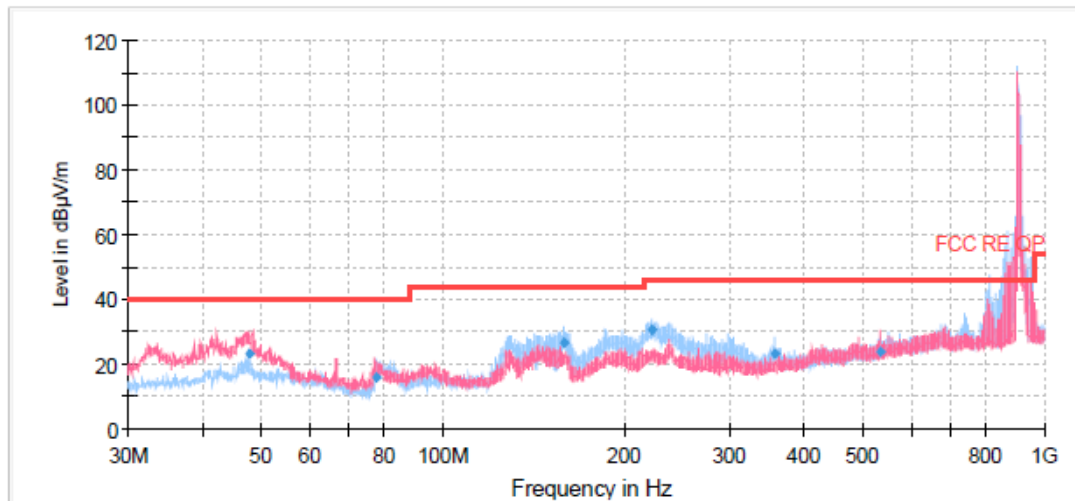
After the pretest, Halow Wi-Fi (1M) was selected as the worst Mode for Halow Wi-Fi.

During the test, the Radiates Emission from 9kHz to 30MHz was performed in all modes with all channels, the test data of the worst-case condition was recorded in this report.



Radiates Emission from 9kHz to 30MHz

Halow Wi-Fi (1M)- 903.5MHz

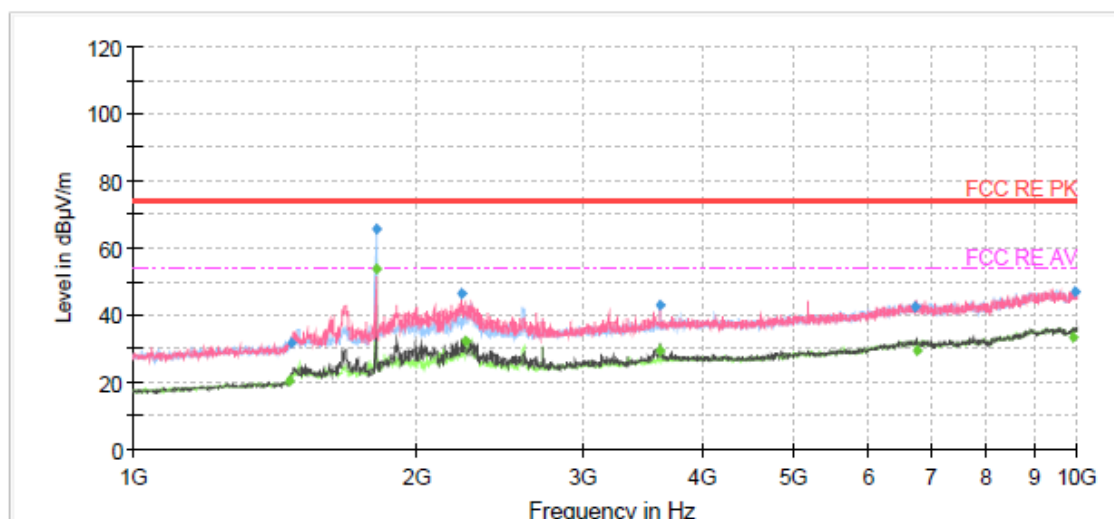


Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
47.67	23.17	40.00	16.83	1000.00	100.0	V	0.00	20
77.65	15.57	40.00	24.43	1000.00	175.0	V	193.00	15
158.71	26.79	43.50	16.71	1000.00	197.0	H	92.00	15
222.86	30.58	46.00	15.42	1000.00	125.0	H	104.00	19
356.59	23.21	46.00	22.79	1000.00	100.0	H	278.00	22
532.78	23.86	46.00	22.14	1000.00	100.0	V	170.00	25

Note: The signal beyond the limit is carrier.

Radiates Emission from 30MHz to 1GHz

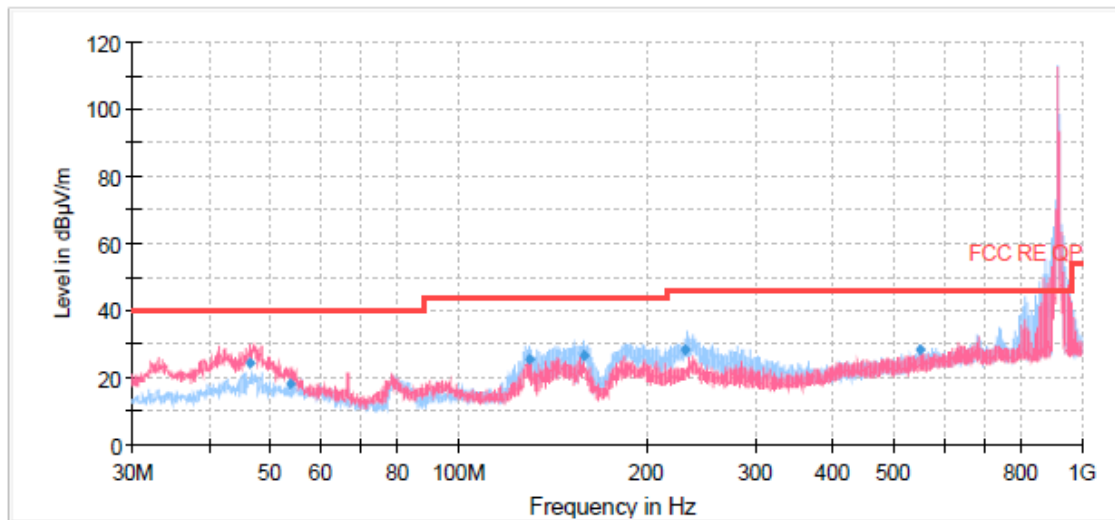


Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1464.63	---	20.26	54.00	33.74	1000.00	224.0	V	186.00	-15
1466.88	31.58	---	74.00	42.42	1000.00	184.0	H	17.00	-15
1806.63	---	53.71	54.00	0.29	1000.00	190.0	H	261.00	-13
1806.63	65.66	---	74.00	8.34	1000.00	190.0	H	264.00	-13
2227.38	46.34	---	74.00	27.66	1000.00	216.0	V	22.00	-11
2247.63	---	32.44	54.00	21.56	1000.00	216.0	V	15.00	-11
3613.38	---	29.43	54.00	24.57	1000.00	119.0	H	328.00	-7
3614.50	43.06	---	74.00	30.94	1000.00	101.0	H	32.00	-7
6740.88	42.73	---	74.00	31.27	1000.00	193.0	V	115.00	0
6752.13	---	29.65	54.00	24.35	1000.00	177.0	V	119.00	0
9901.00	---	33.65	54.00	20.35	1000.00	225.0	H	22.00	4
9962.88	46.96	---	74.00	27.04	1000.00	104.0	H	348.00	4

Radiates Emission from 1GHz to 10GHz

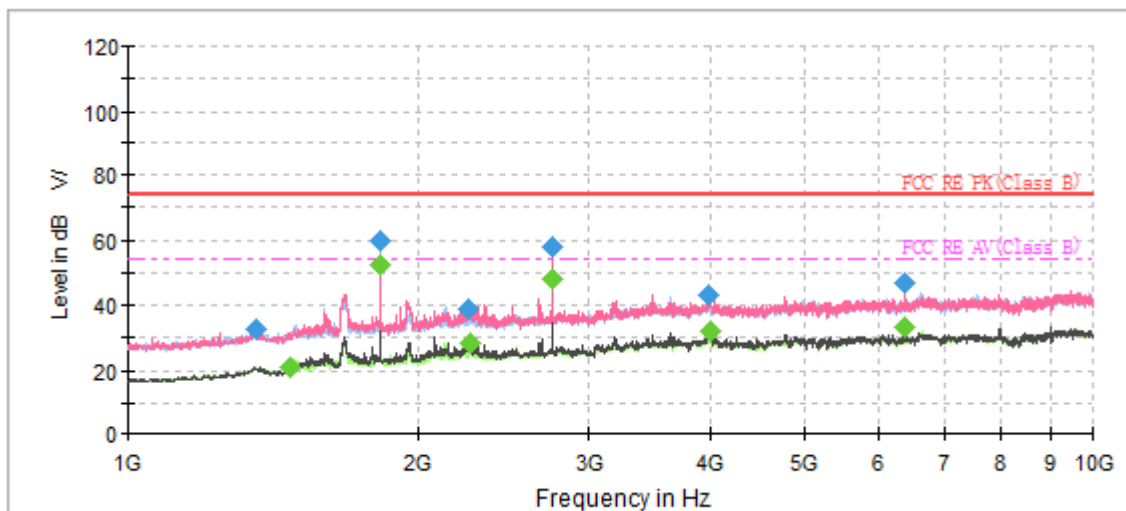
Halow Wi-Fi (1M) - 915.5MHz



Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
46.26	24.44	40.00	15.56	1000.00	101.0	V	92.00	20
53.72	18.21	40.00	21.79	1000.00	100.0	V	38.00	20
130.16	25.33	43.50	18.17	1000.00	175.0	H	97.00	15
159.14	26.85	43.50	16.65	1000.00	198.0	H	92.00	15
231.80	28.57	46.00	17.43	1000.00	108.0	H	98.00	19
549.97	28.46	46.00	17.54	1000.00	176.0	H	274.00	26

Note: The signal beyond the limit is carrier.
Radiates Emission from 30MHz to 1GHz

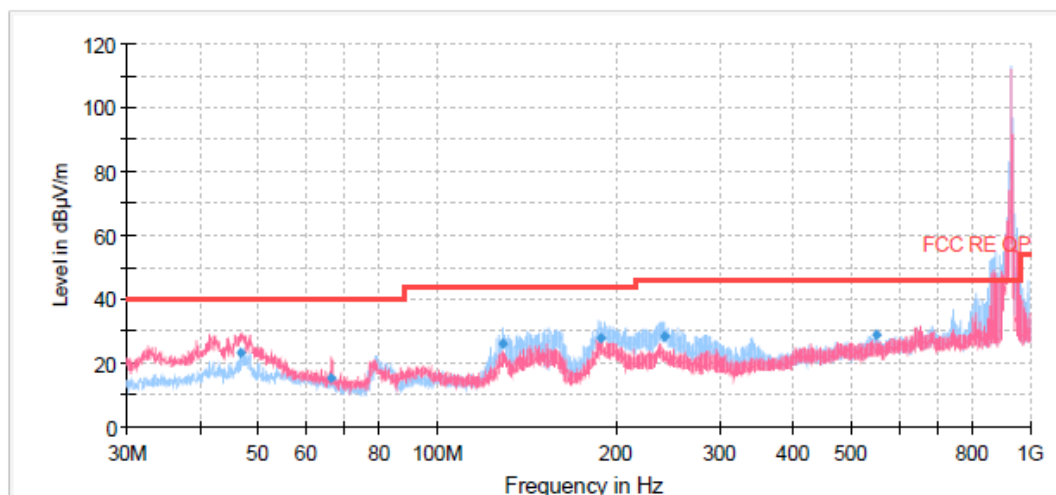


Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1352.125000	32.75	---	74.00	41.25	500.0	100.0	H	0.0	-17.9
1466.875000	---	21.12	54.00	32.88	500.0	200.0	V	181.0	-17.2
1826.875000	---	52.13	54.00	1.87	500.0	200.0	H	48.0	-15.3
1826.875000	59.88	---	74.00	14.12	500.0	100.0	H	49.0	-15.3
2253.250000	39.07	---	74.00	34.93	500.0	200.0	V	199.0	-13.0
2255.500000	---	28.56	54.00	25.44	500.0	200.0	V	199.0	-13.0
2740.375000	57.91	---	74.00	16.09	500.0	100.0	H	346.0	-11.5
2740.375000	---	47.97	54.00	6.03	500.0	100.0	H	346.0	-11.5
3995.875000	43.29	---	74.00	30.71	500.0	100.0	V	267.0	-6.8
4009.375000	---	32.09	54.00	21.91	500.0	100.0	V	267.0	-6.8
6375.250000	47.06	---	74.00	26.94	500.0	100.0	V	204.0	-4.3
6385.375000	---	33.05	54.00	20.95	500.0	100.0	V	186.0	-4.2

Radiates Emission from 1GHz to 10GHz

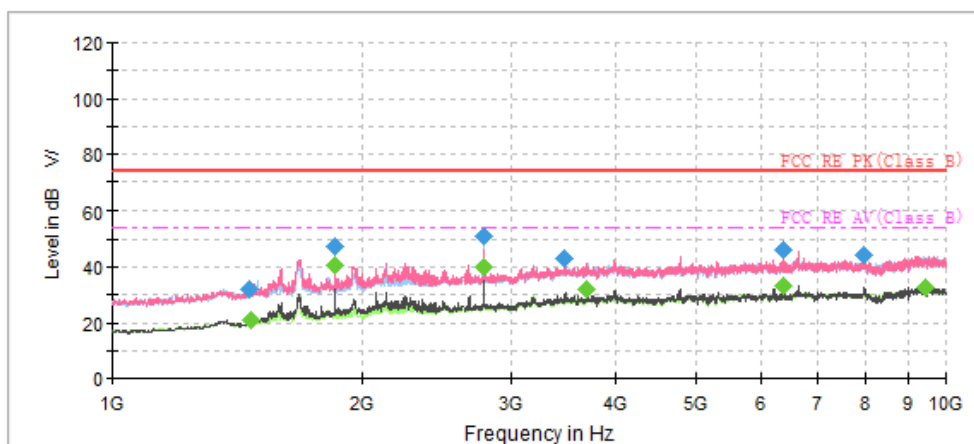
Halow Wi-Fi (1M)-926.5MHz



Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
46.51	23.45	40.00	16.55	1000.00	109.0	V	0.00	20
66.42	15.31	40.00	24.69	1000.00	174.0	V	68.00	17
129.29	26.30	43.50	17.20	1000.00	224.0	H	97.00	16
188.48	27.93	43.50	15.57	1000.00	101.0	H	102.00	18
240.70	28.43	46.00	17.57	1000.00	125.0	H	95.00	20
549.98	29.10	46.00	16.90	1000.00	174.0	H	215.00	26

Note: The signal beyond the limit is carrier.
Radiates Emission from 30MHz to 1GHz

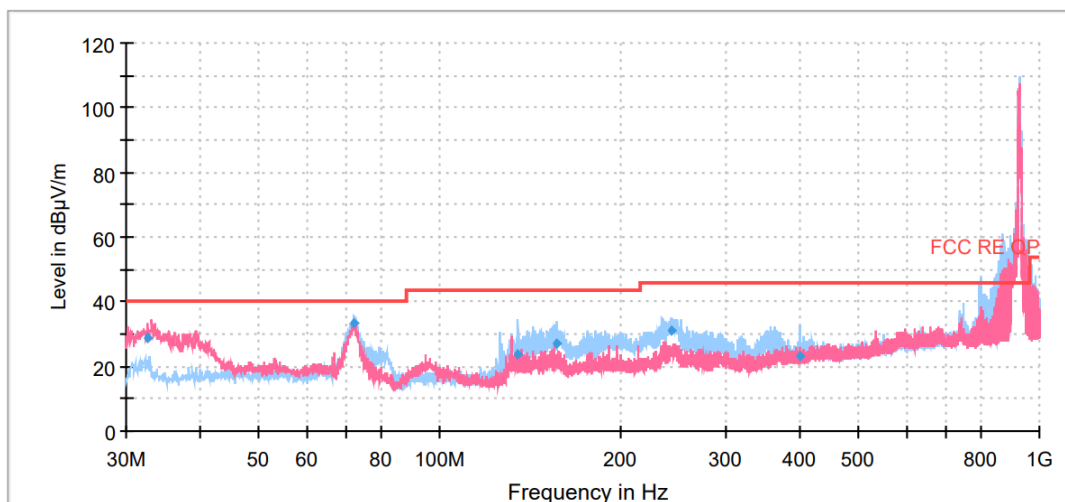


Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1461.250000	32.24	---	74.00	41.76	500.0	100.0	V	230.0	-17.2
1464.625000	---	20.94	54.00	33.06	500.0	200.0	V	183.0	-17.2
1852.750000	---	40.77	54.00	13.23	500.0	100.0	H	52.0	-15.2
1852.750000	47.37	---	74.00	26.63	500.0	200.0	H	55.0	-15.2
2778.625000	51.12	---	74.00	22.88	500.0	200.0	H	299.0	-11.4
2779.750000	---	39.70	54.00	14.30	500.0	200.0	H	332.0	-11.4
3484.000000	43.02	---	74.00	30.98	500.0	100.0	V	46.0	-8.3
3705.625000	---	32.17	54.00	21.83	500.0	100.0	H	339.0	-7.9
6367.375000	45.89	---	74.00	28.11	500.0	100.0	V	93.0	-4.3
6375.250000	---	33.43	54.00	20.57	500.0	100.0	V	275.0	-4.3
7977.250000	44.31	---	74.00	29.69	500.0	100.0	V	58.0	-2.5
9454.375000	---	32.87	54.00	21.13	500.0	200.0	H	343.0	-0.3

Radiates Emission from 1GHz to 10GHz

Halow Wi-Fi (4M)-926MHz

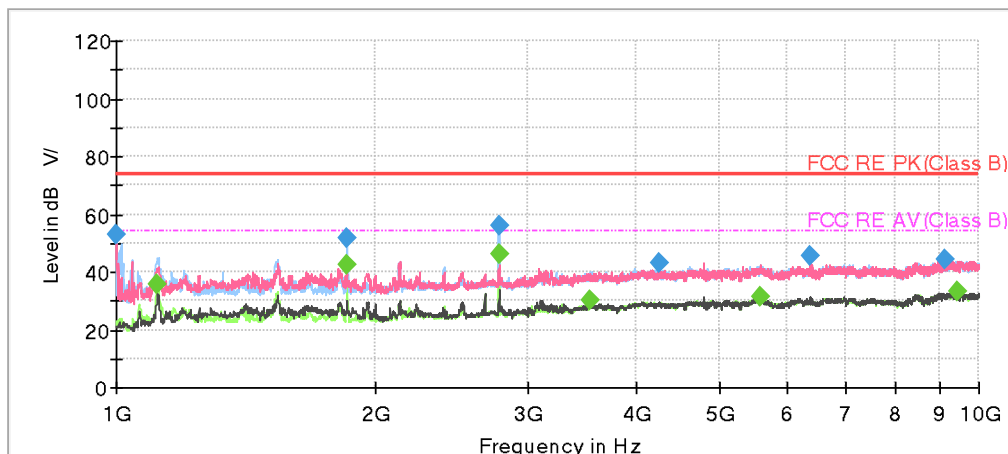


Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
32.62	28.63	40.00	11.37	1000.00	100.0	V	8.00	17
72.00	33.35	40.00	6.65	1000.00	225.0	H	1.00	16
134.85	23.95	43.50	19.55	1000.00	125.0	H	118.00	15
156.90	27.30	43.50	16.20	1000.00	198.0	H	118.00	15
243.09	31.21	46.00	14.79	1000.00	125.0	H	334.00	20
400.05	23.15	46.00	22.85	1000.00	100.0	H	155.00	23

Note: The signal beyond the limit is carrier.

Radiates Emission from 30MHz to 1GHz

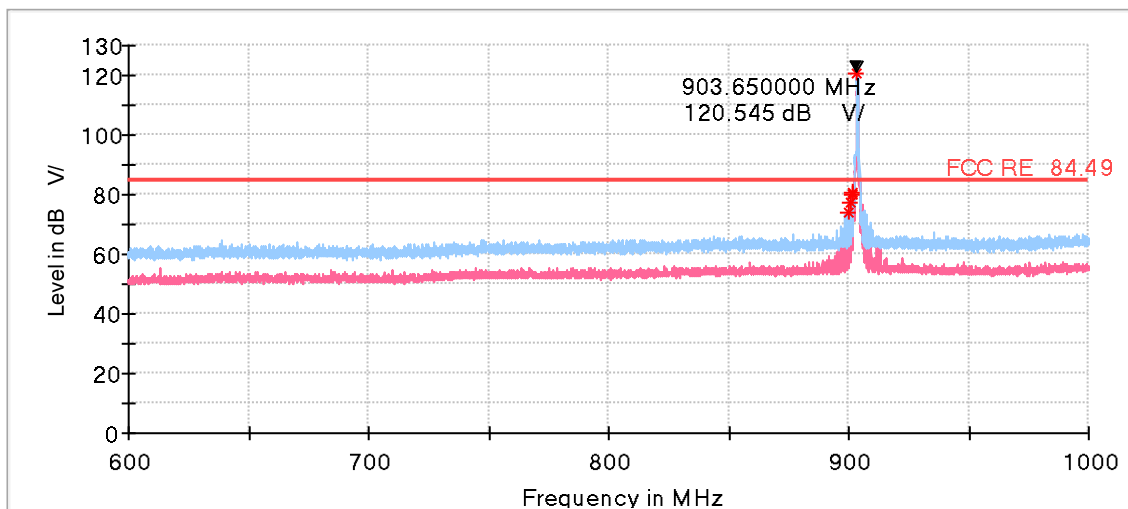


Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1001.125000	53.03	---	74.00	20.97	500.0	100.0	H	215.0	-20.7
1117.000000	---	35.50	54.00	18.50	500.0	100.0	H	132.0	-20.0
1851.625000	---	42.43	54.00	11.57	500.0	100.0	H	274.0	-15.2
1852.750000	51.47	---	74.00	22.53	500.0	100.0	H	274.0	-15.2
2776.375000	---	46.36	54.00	7.64	500.0	200.0	H	245.0	-11.4
2776.375000	55.76	---	74.00	18.24	500.0	200.0	H	245.0	-11.4
3536.875000	---	30.17	54.00	23.83	500.0	200.0	H	154.0	-8.3
4262.500000	43.08	---	74.00	30.92	500.0	100.0	V	293.0	-6.5
5573.125000	---	31.45	54.00	22.55	500.0	200.0	V	250.0	-4.5
6376.375000	45.27	---	74.00	28.73	500.0	100.0	V	68.0	-4.3
9142.750000	44.09	---	74.00	29.91	500.0	200.0	H	263.0	-1.1
9466.750000	---	32.98	54.00	21.02	500.0	100.0	H	160.0	-0.1

Radiates Emission from 1GHz to 10GHz

Halow Wi-Fi (1M)- 903.5MHz

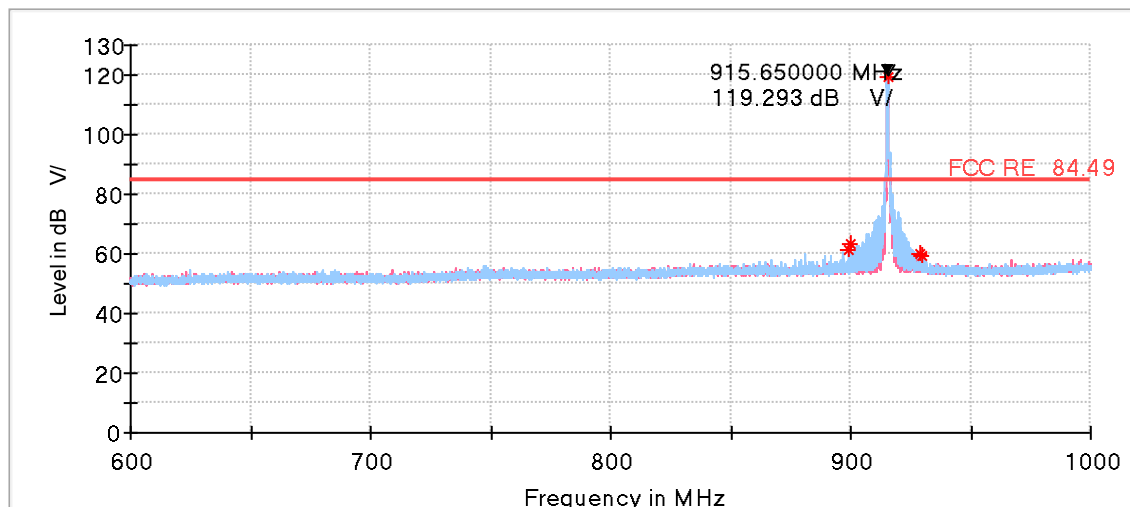


Note: The signal beyond the limit is carrier.

Radiates Emission from 600MHz to 1GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
900.400000	74.29	84.49	10.20	100.0	H	91.0	31.0
901.000000	77.37	84.49	7.12	100.0	H	274.0	31.0
901.350000	79.70	84.49	4.79	100.0	H	231.0	31.0
901.850000	80.84	84.49	3.65	100.0	H	286.0	31.0
903.650000	120.54	84.49	-36.05	100.0	H	116.0	31.0

Halow Wi-Fi (1M) – 915.5MHz

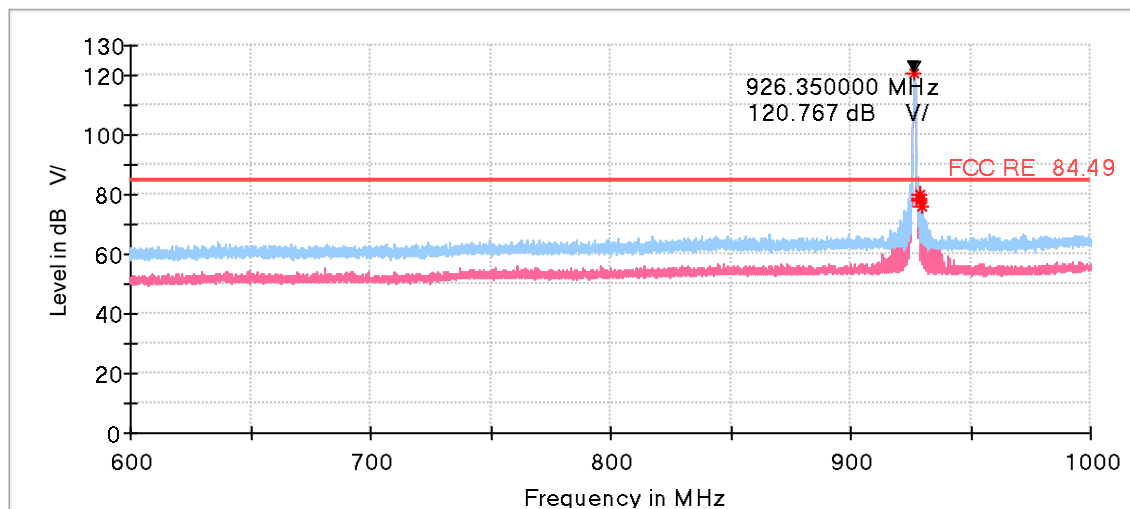


Note: The signal beyond the limit is carrier.

Radiates Emission from 600MHz to 1GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
899.000000	61.02	84.49	23.47	100.0	H	114.0	30.9
899.750000	63.44	84.49	21.05	100.0	H	238.0	30.9
915.650000	119.29	84.49	-34.80	100.0	H	238.0	31.0
929.100000	60.02	84.49	24.47	100.0	H	275.0	31.0
929.600000	59.07	84.49	25.42	100.0	H	245.0	31.0

Halow Wi-Fi (1M)-926.5MHz

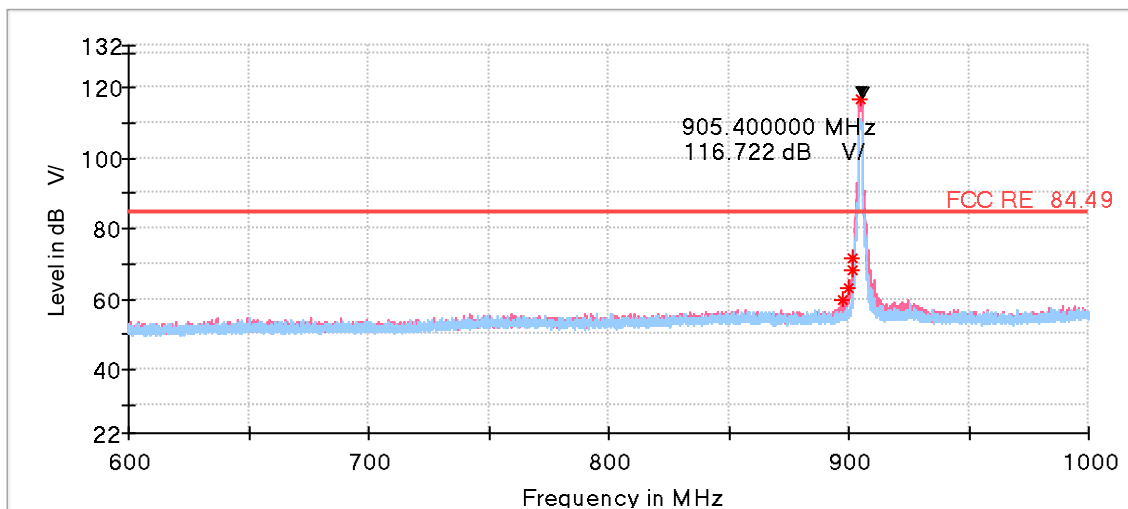


Note: The signal beyond the limit is carrier.

Radiates Emission from 600MHz to 1GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
926.350000	120.77	84.49	-36.28	100.0	H	240.0	31.0
928.550000	80.24	84.49	4.25	100.0	V	298.0	31.0
928.900000	78.65	84.49	5.84	100.0	H	131.0	31.0
929.000000	78.09	84.49	6.40	200.0	V	8.0	31.0
929.400000	76.18	84.49	8.31	100.0	H	119.0	31.0

Halow Wi-Fi (2M)- 905MHz

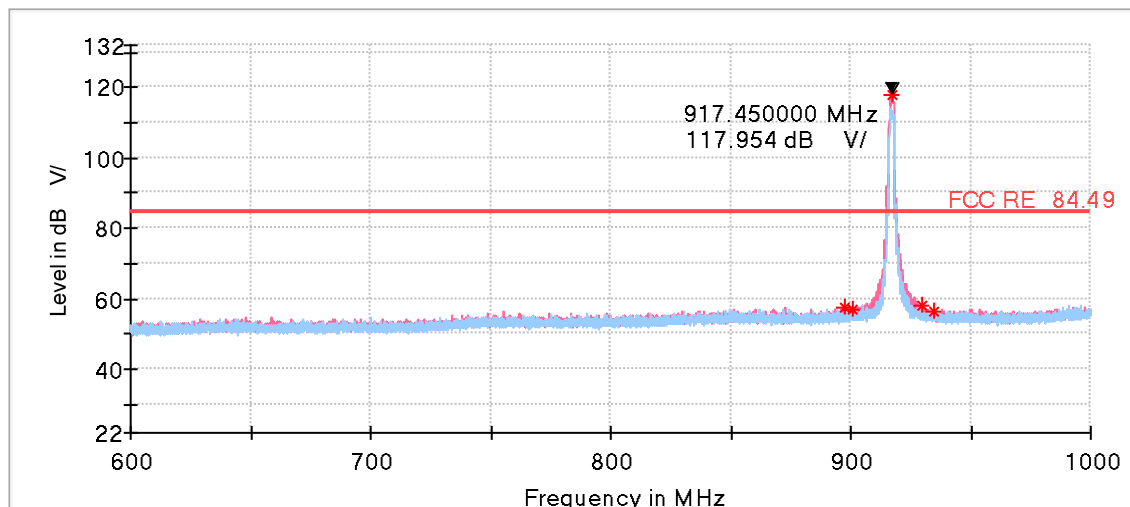


Note: The signal beyond the limit is carrier.

Radiates Emission from 600MHz to 1GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
897.450000	59.81	84.49	24.68	100.0	V	39.0	30.9
900.200000	63.42	84.49	21.07	100.0	V	323.0	31.0
901.750000	68.47	84.49	16.02	100.0	V	319.0	31.0
901.950000	71.44	84.49	13.05	100.0	V	143.0	31.0
904.850000	116.99	84.49	-32.50	100.0	V	36.0	31.0

Halow Wi-Fi (2M) - 917MHz

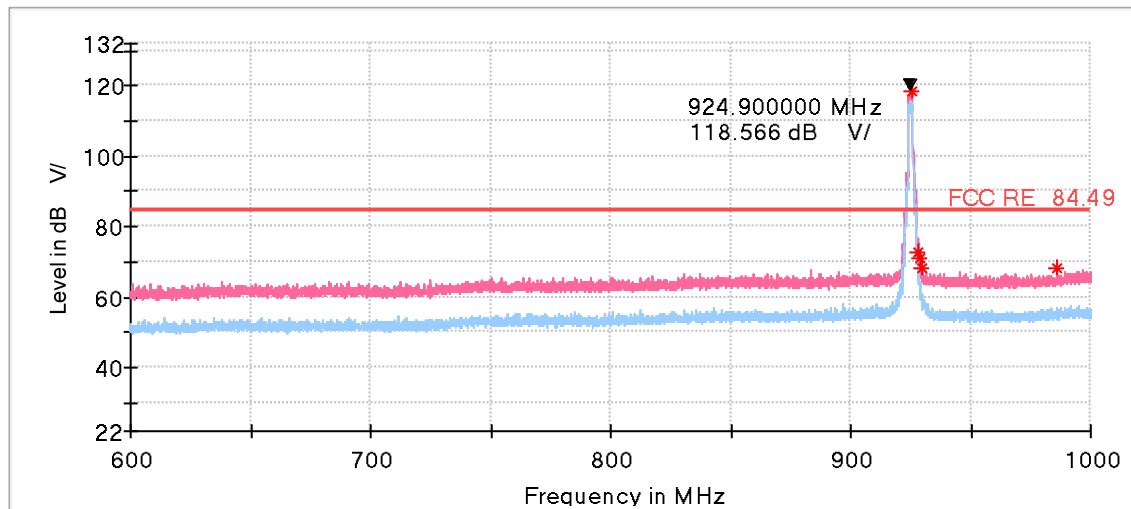


Note: The signal beyond the limit is carrier.

Radiates Emission from 600MHz to 1GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
897.800000	57.71	84.49	26.78	100.0	V	36.0	30.9
901.100000	57.21	84.49	27.28	100.0	V	323.0	31.0
917.450000	117.95	84.49	-33.46	100.0	V	237.0	31.1
929.950000	58.08	84.49	26.41	100.0	V	244.0	31.0
934.750000	56.50	84.49	27.99	100.0	V	310.0	30.9

Halow Wi-Fi (2M)-925MHz

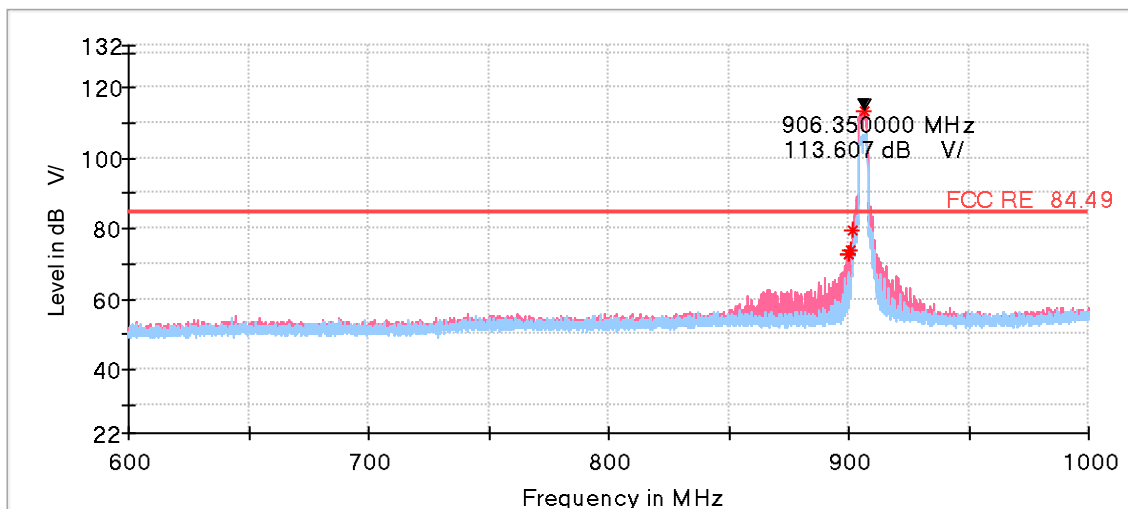


Note: The signal beyond the limit is carrier.

Radiates Emission from 600MHz to 1GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
925.450000	118.62	84.49	-34.13	100.0	V	243.0	31.1
928.050000	72.80	84.49	11.69	200.0	V	202.0	31.0
928.750000	71.29	84.49	13.20	200.0	V	169.0	31.0
929.900000	68.25	84.49	16.24	100.0	V	243.0	31.0
986.100000	68.43	84.49	16.06	100.0	V	23.0	31.3

Halow Wi-Fi (4M)- 906MHz

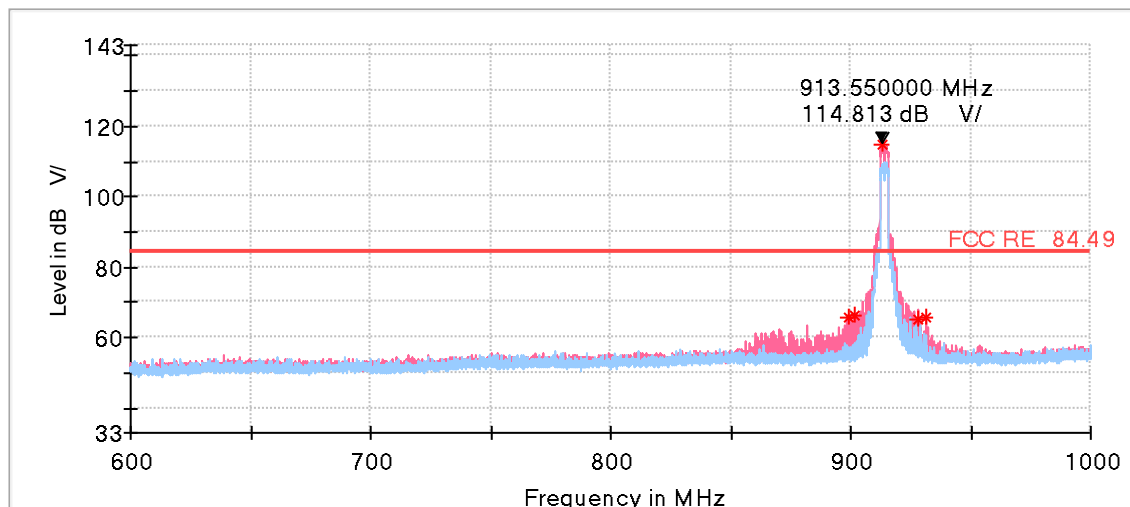


Note: The signal beyond the limit is carrier.

Radiates Emission from 600MHz to 1GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
899.900000	72.96	84.49	11.53	100.0	V	201.0	30.9
900.250000	72.91	84.49	11.58	100.0	V	194.0	31.0
900.650000	73.89	84.49	10.60	200.0	V	205.0	31.0
901.500000	79.35	84.49	5.14	100.0	V	157.0	31.0
906.350000	113.61	84.49	-29.12	100.0	V	204.0	31.0

Halow Wi-Fi (4M) - 914MHz

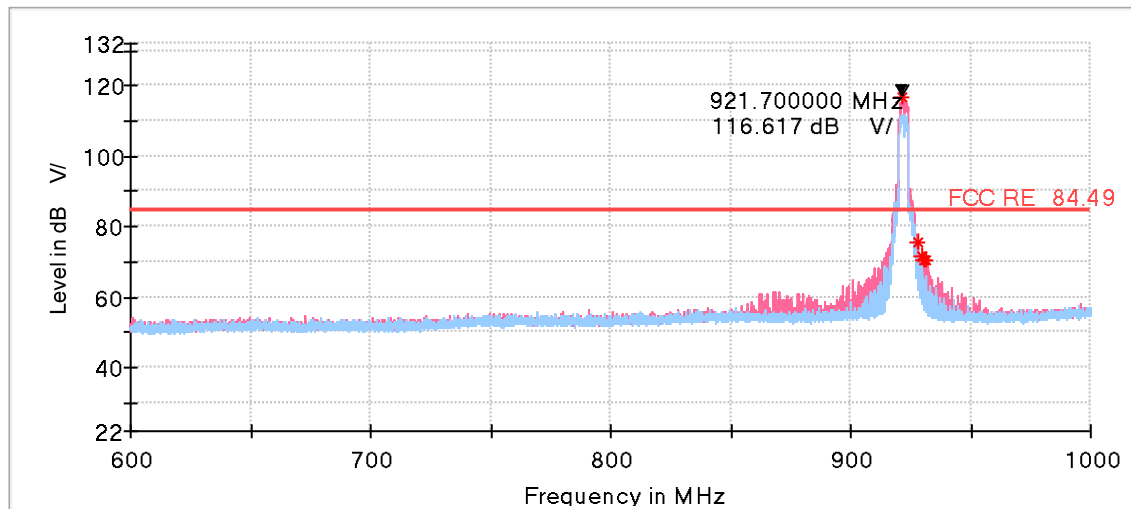


Note: The signal beyond the limit is carrier.

Radiates Emission from 600MHz to 1GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
899.200000	65.98	84.49	18.51	100.0	V	32.0	30.9
901.250000	66.55	84.49	17.94	100.0	V	206.0	31.0
913.550000	114.81	84.49	-30.32	100.0	V	35.0	31.0
928.500000	65.04	84.49	19.45	100.0	V	242.0	31.0
931.400000	65.94	84.49	18.55	100.0	V	232.0	31.0

Halow Wi-Fi (4M)-922MHz

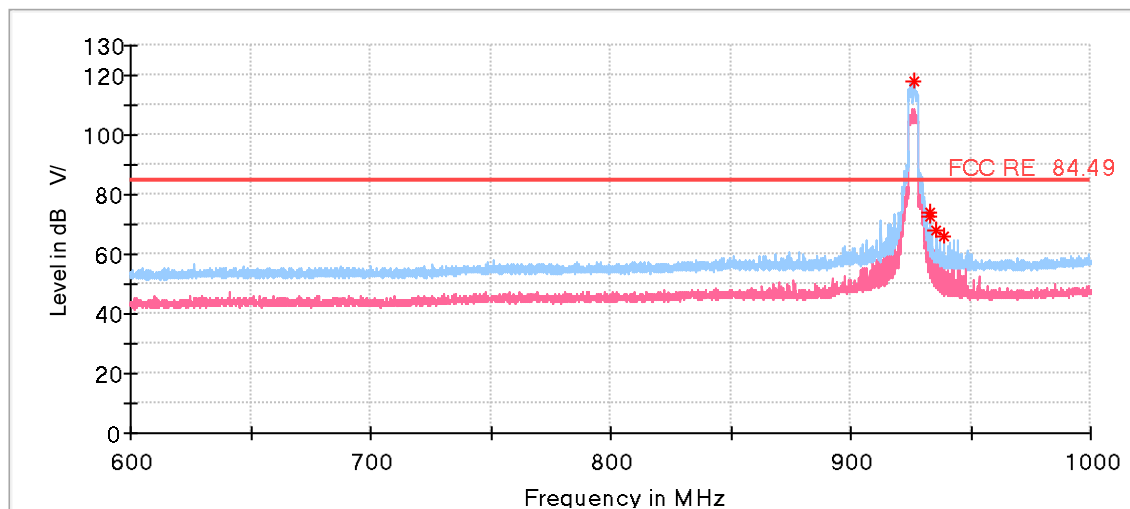


Note: The signal beyond the limit is carrier.

Radiates Emission from 600MHz to 1GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
921.700000	116.62	84.49	-32.13	100.0	V	235.0	31.1
928.100000	75.75	84.49	8.74	100.0	V	204.0	31.0
929.350000	71.82	84.49	12.67	200.0	H	177.0	31.0
930.550000	70.50	84.49	13.99	200.0	V	198.0	31.0
931.000000	70.70	84.49	13.79	100.0	V	235.0	31.0

Halow Wi-Fi (4M)-926MHz

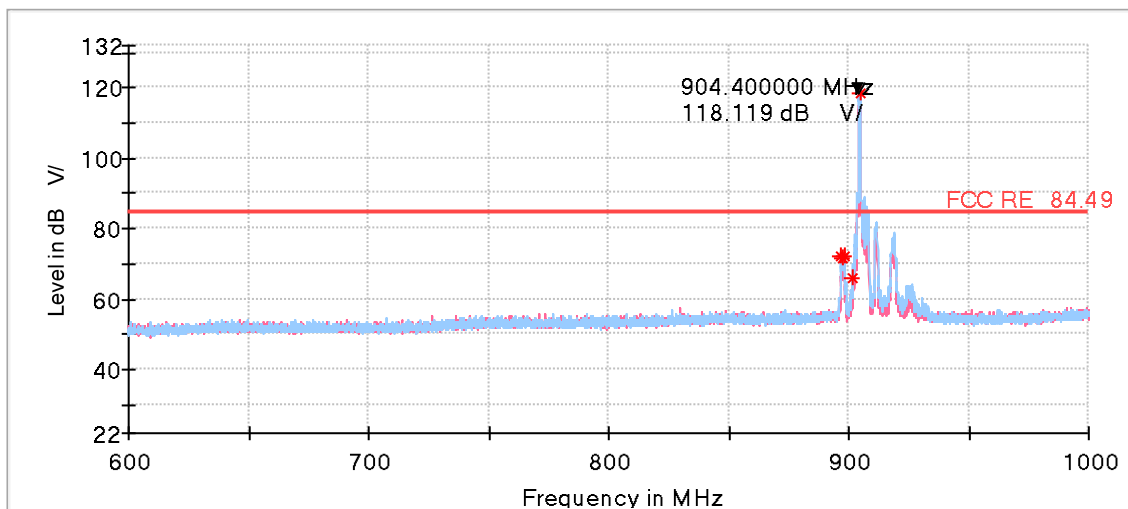


Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
926.800000	117.85	84.49	-33.36	100.0	H	126.0	43.0
933.150000	73.74	84.49	10.75	100.0	H	132.0	43.0
933.400000	72.44	84.49	12.05	100.0	H	120.0	42.9
935.950000	68.04	84.49	16.45	100.0	H	139.0	42.9
938.750000	66.31	84.49	18.18	100.0	H	95.0	42.8

Note: The signal beyond the limit is carrier.

Radiates Emission from 600MHz to 1GHz

Halow Wi-Fi (8M)- 908MHz

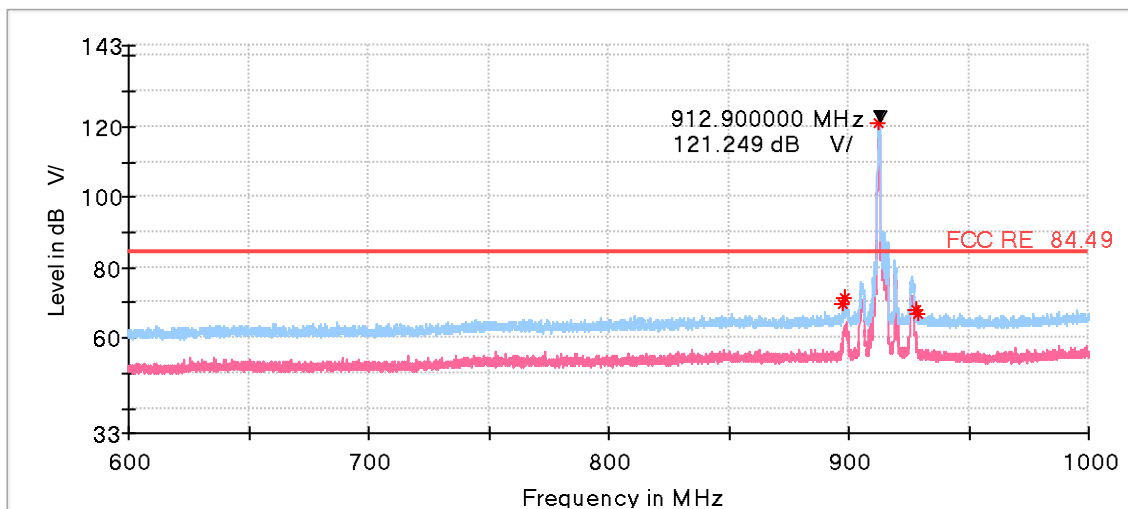


Note: The signal beyond the limit is carrier.

Radiates Emission from 600MHz to 1GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
896.900000	72.08	84.49	12.41	200.0	H	325.0	30.9
897.550000	71.64	84.49	12.85	100.0	H	258.0	30.9
898.000000	72.15	84.49	12.34	100.0	H	258.0	30.9
901.500000	65.82	84.49	18.67	100.0	H	258.0	31.0
904.850000	118.23	84.49	-33.74	100.0	H	258.0	31.0

Halow Wi-Fi (8M) - 916MHz

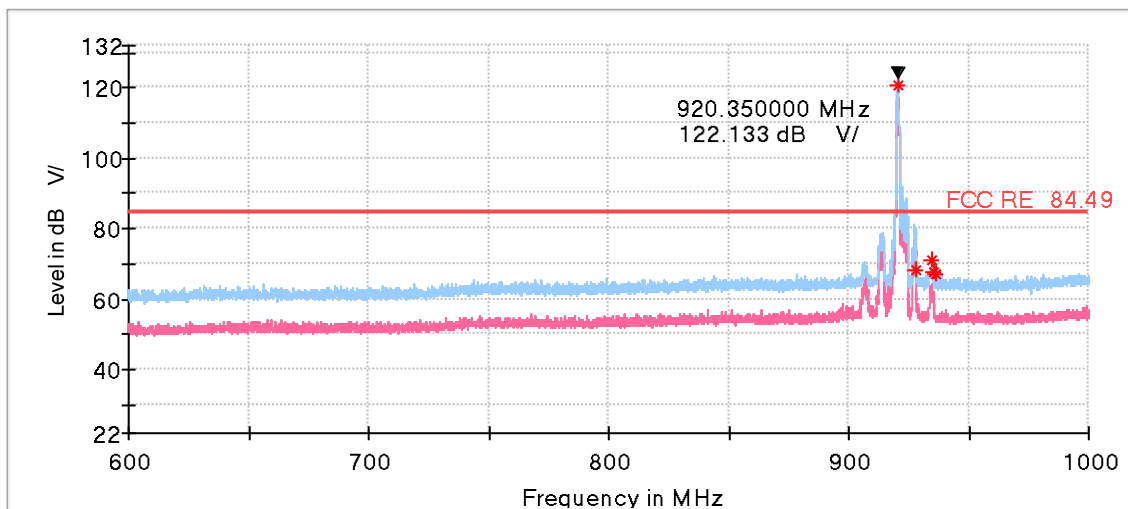


Note: The signal beyond the limit is carrier.

Radiates Emission from 600MHz to 1GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
897.450000	69.40	84.49	15.09	100.0	H	39.0	30.9
898.550000	71.53	84.49	12.96	100.0	H	81.0	30.9
912.700000	120.92	84.49	-36.43	100.0	H	81.0	31.0
928.050000	68.02	84.49	16.47	100.0	H	81.0	31.0
929.150000	67.00	84.49	17.49	100.0	H	327.0	31.0

Halow Wi-Fi (8M)-924MHz



Note: The signal beyond the limit is carrier.

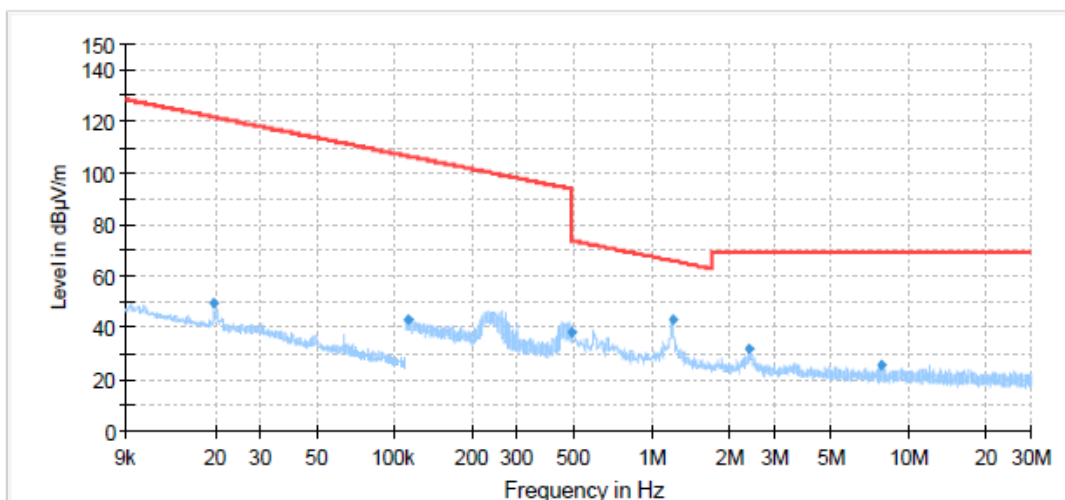
Radiates Emission from 600MHz to 1GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
920.600000	120.59	84.49	-36.10	100.0	H	324.0	31.1
928.200000	68.40	84.49	16.09	100.0	H	16.0	31.0
934.350000	70.84	84.49	13.65	100.0	H	324.0	30.9
935.350000	67.59	84.49	16.90	100.0	H	79.0	30.9
936.700000	66.88	84.49	17.61	100.0	H	194.0	30.9

Antenna 2

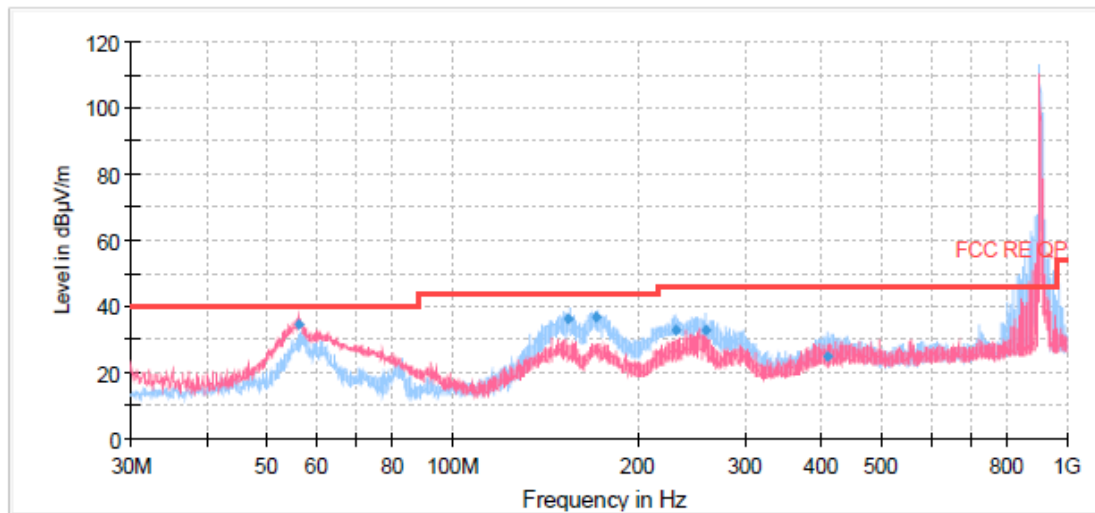
After the pretest, Halow Wi-Fi (1M) was selected as the worst Mode for Halow Wi-Fi.

During the test, the Radiates Emission from 9kHz to 30MHz was performed in all modes with all channels, the test data of the worst-case condition was recorded in this report.



Radiates Emission from 9kHz to 30MHz

Halow Wi-Fi (1M)- 903.5MHz

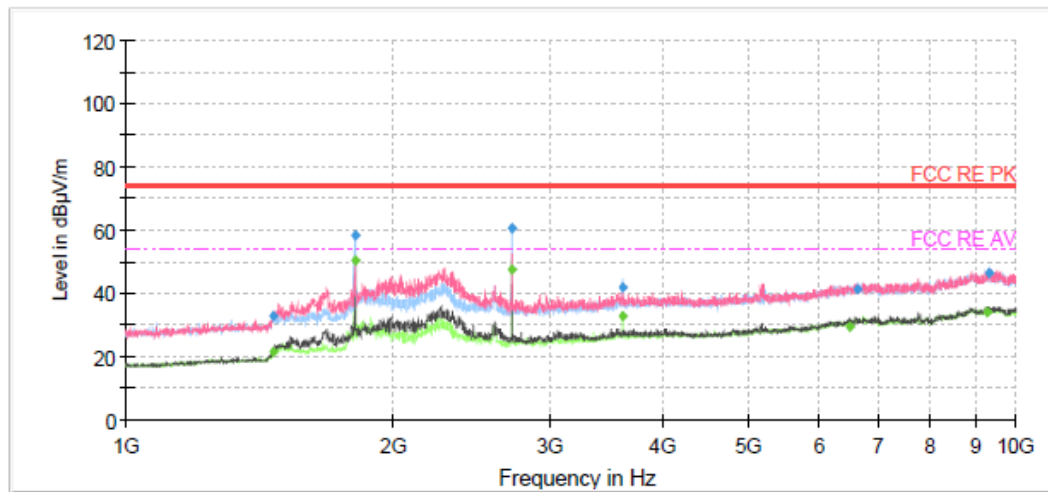


Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
56.36	34.41	40.00	5.59	1000.00	101.0	V	296.00	20
154.66	35.96	43.50	7.54	1000.00	197.0	H	289.00	15
171.76	36.98	43.50	6.52	1000.00	184.0	H	288.00	16
230.17	32.59	46.00	13.41	1000.00	125.0	H	322.00	19
257.55	32.72	46.00	13.28	1000.00	100.0	H	298.00	20
409.07	25.04	46.00	20.96	1000.00	100.0	H	90.00	23

Note: The signal beyond the limit is carrier.

Radiates Emission from 30MHz to 1GHz

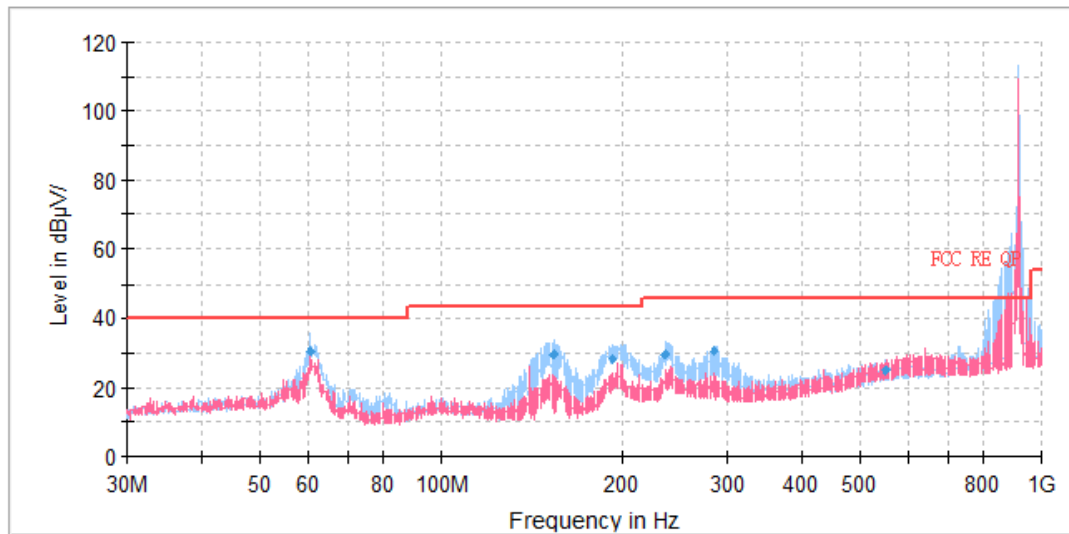


Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1464.63	33.07	---	74.00	40.93	1000.00	104.0	V	2.00	-15
1465.75	---	21.49	54.00	32.51	1000.00	225.0	V	220.00	-15
1806.63	---	50.44	54.00	3.56	1000.00	176.0	H	52.00	-13
1806.63	58.23	---	74.00	15.77	1000.00	178.0	H	49.00	-13
2710.00	60.68	---	74.00	13.32	1000.00	184.0	H	284.00	-10
2710.00	---	47.48	54.00	6.52	1000.00	183.0	H	284.00	-10
3613.38	---	32.55	54.00	21.45	1000.00	124.0	H	54.00	-7
3613.38	42.12	---	74.00	31.88	1000.00	215.0	H	58.00	-7
6497.88	---	29.32	54.00	24.68	1000.00	102.0	V	252.00	0
6634.00	41.40	---	74.00	32.60	1000.00	101.0	H	0.00	0
9299.13	---	33.88	54.00	20.12	1000.00	205.0	H	38.00	5
9309.25	46.63	---	74.00	27.37	1000.00	125.0	H	346.00	5

Radiates Emission from 1GHz to 10GHz

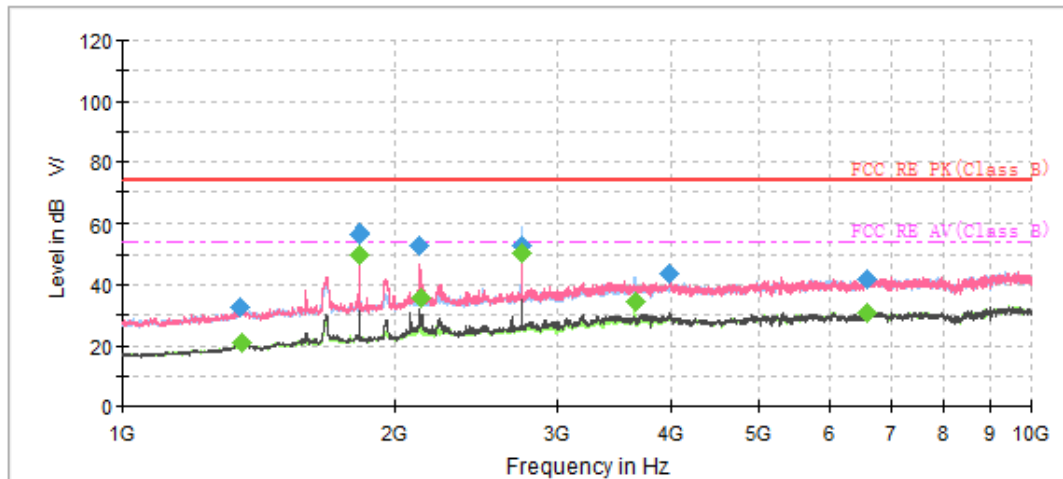
Halow Wi-Fi (1M) -915.5MHz



Final Result

Frequency (MHz)	QuasiPeak (dBμ V/m)	Limit (dBμ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
60.70	30.62	40.00	9.38	1000.00	225.0	H	21.00	19
153.72	29.28	43.50	14.22	1000.00	199.0	H	108.00	15
192.38	28.48	43.50	15.02	1000.00	174.0	H	49.00	18
236.85	29.31	46.00	16.69	1000.00	125.0	H	48.00	19
550.31	24.75	46.00	21.25	1000.00	183.0	H	311.00	26
285.00	30.31	46.00	15.69	1000.00	174.0	H	83.00	31

Note: The signal beyond the limit is carrier.
Radiates Emission from 30MHz to 1GHz

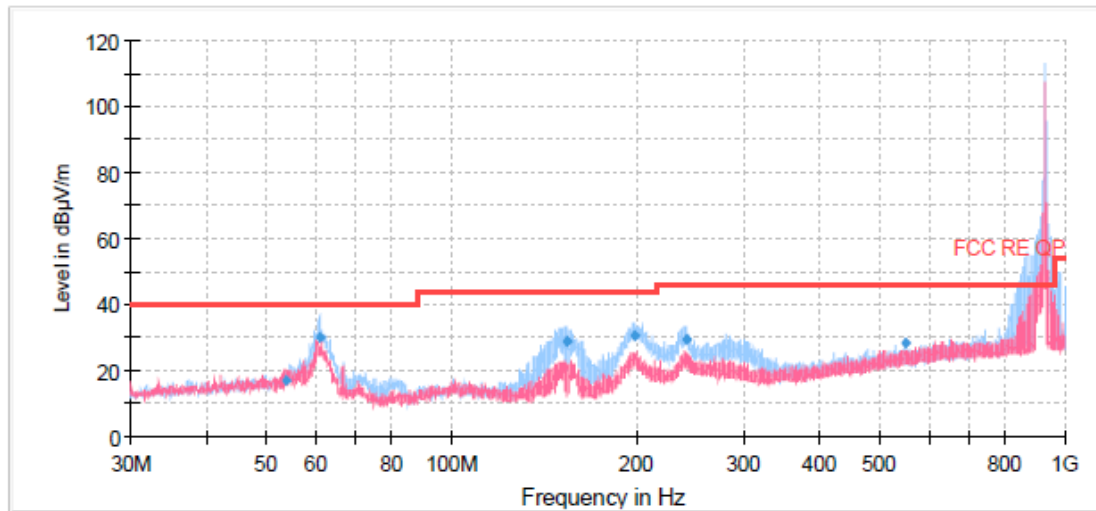


Final Result

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1349.162500	32.50	---	74.00	41.50	500.0	100.0	H	42.0	-18.0
1354.950000	---	20.88	54.00	33.12	500.0	200.0	V	119.0	-17.9
1826.988750	56.66	---	74.00	17.34	500.0	200.0	H	76.0	-15.3
1827.082500	---	49.54	54.00	4.46	500.0	200.0	H	76.0	-15.3
2127.080000	52.65	---	74.00	21.35	500.0	200.0	V	165.0	-13.6
2129.527500	---	35.70	54.00	18.30	500.0	200.0	V	193.0	-13.6
2740.467500	52.88	---	74.00	21.12	500.0	100.0	H	335.0	-11.5
2740.615000	---	50.76	54.00	3.24	500.0	200.0	H	45.0	-11.5
3654.035000	---	34.27	54.00	19.73	500.0	100.0	H	326.0	-8.0
3994.938750	43.75	---	74.00	30.25	500.0	100.0	V	172.0	-6.8
6592.398750	---	30.99	54.00	23.01	500.0	100.0	V	16.0	-3.4
6601.733750	41.71	---	74.00	32.29	500.0	100.0	H	201.0	-3.3

Radiates Emission from 1GHz to 10GHz

Halow Wi-Fi (1M)- 926.5MHz

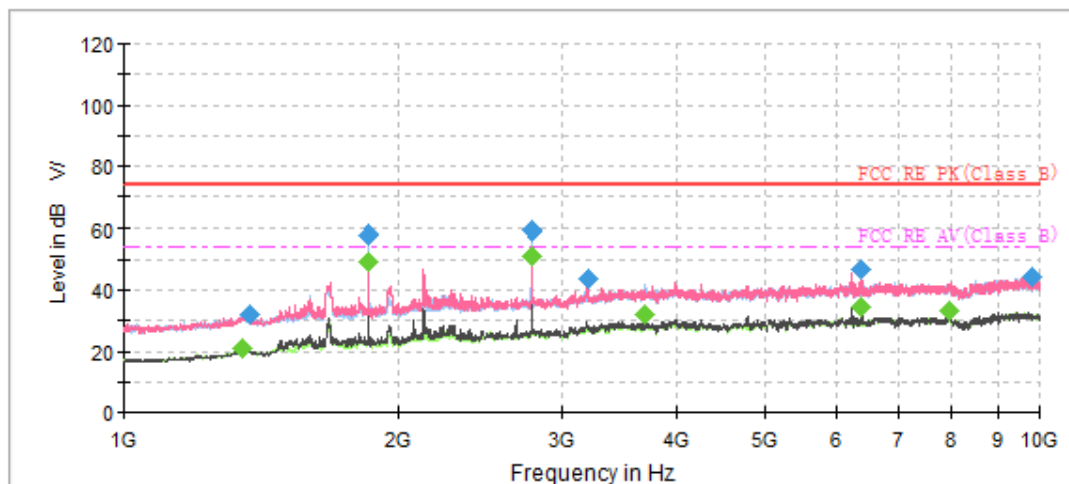


Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
53.62	17.13	40.00	22.87	1000.00	100.0	V	94.00	20
60.85	30.17	40.00	9.83	1000.00	211.0	H	188.00	19
154.35	29.09	43.50	14.41	1000.00	198.0	H	106.00	15
199.46	30.80	43.50	12.70	1000.00	175.0	H	58.00	18
550.02	28.12	46.00	17.88	1000.00	176.0	H	304.00	26
241.75	29.59	46.00	16.41	1000.00	100.0	H	314.00	31

Note: The signal beyond the limit is carrier.

Radiates Emission from 30MHz to 1GHz

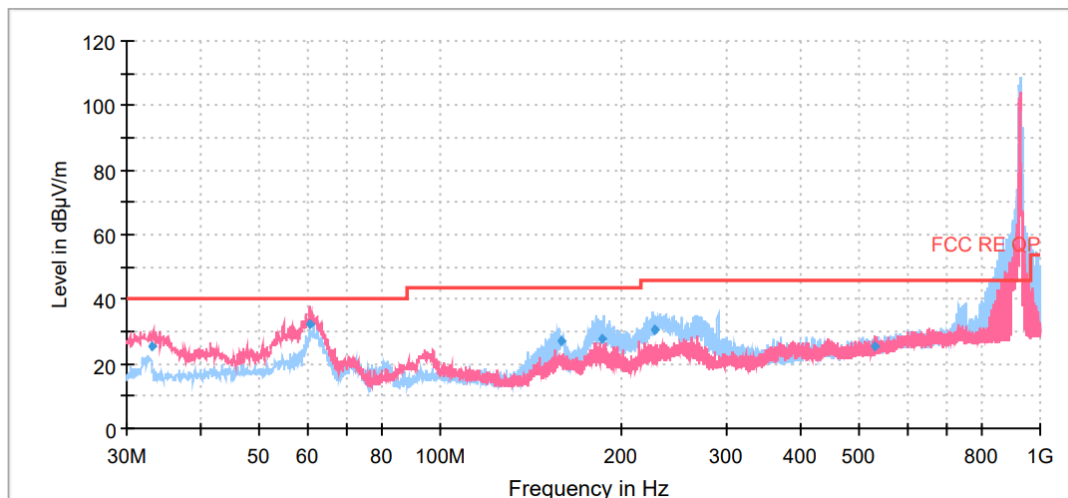


Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1351.000000	---	21.04	54.00	32.96	500.0	200.0	V	59.0	-17.9
1373.500000	31.77	---	74.00	42.23	500.0	100.0	V	204.0	-17.7
1852.750000	---	49.36	54.00	4.64	500.0	200.0	H	67.0	-15.2
1852.750000	57.55	---	74.00	16.45	500.0	200.0	H	67.0	-15.2
2778.625000	59.16	---	74.00	14.84	500.0	200.0	H	55.0	-11.4
2779.750000	---	50.80	54.00	3.20	500.0	200.0	H	55.0	-11.4
3201.625000	43.73	---	74.00	30.27	500.0	100.0	V	195.0	-9.9
3705.625000	---	32.00	54.00	22.00	500.0	200.0	H	61.0	-7.9
6375.250000	46.49	---	74.00	27.51	500.0	100.0	V	286.0	-4.3
6380.875000	---	34.53	54.00	19.47	500.0	100.0	V	258.0	-4.2
7978.375000	---	33.45	54.00	20.55	500.0	100.0	V	62.0	-2.5
9789.625000	44.03	---	74.00	29.97	500.0	100.0	V	357.0	-0.5

Radiates Emission from 1GHz to 10GHz

Halow Wi-Fi (4M)-926MHz

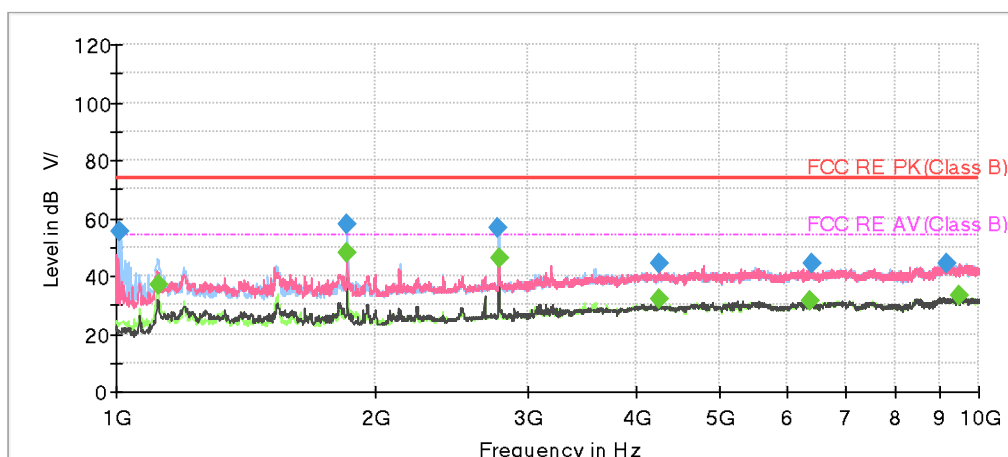


Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
33.04	25.69	40.00	14.31	1000.00	100.0	V	276.00	17
60.68	32.41	40.00	7.59	1000.00	197.0	V	236.00	19
158.67	27.06	43.50	16.44	1000.00	197.0	H	103.00	16
186.57	27.96	43.50	15.54	1000.00	125.0	H	70.00	17
226.93	30.59	46.00	15.41	1000.00	125.0	H	150.00	19
531.14	25.36	46.00	20.64	1000.00	100.0	V	155.00	26

Note: The signal beyond the limit is carrier.

Radiates Emission from 30MHz to 1GHz

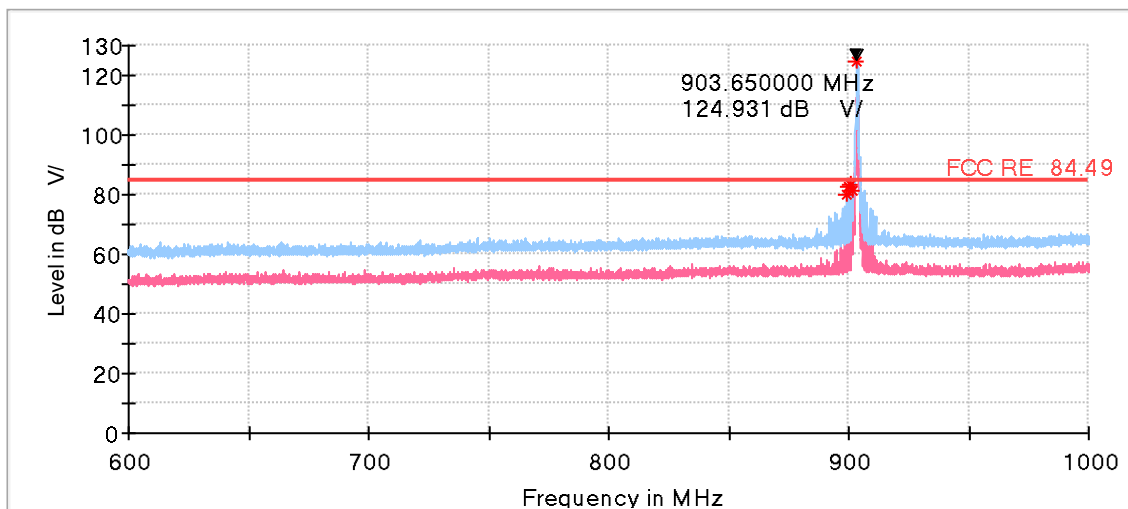


Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1011.250000	55.11	---	74.00	18.89	500.0	200.0	H	299.0	-20.6
1118.125000	---	36.93	54.00	17.07	500.0	200.0	H	12.0	-20.0
1851.625000	---	48.12	54.00	5.88	500.0	200.0	H	86.0	-15.2
1851.625000	57.90	---	74.00	16.10	500.0	100.0	H	315.0	-15.2
2775.250000	56.67	---	74.00	17.33	500.0	200.0	H	343.0	-11.4
2777.500000	---	46.36	54.00	7.64	500.0	100.0	H	65.0	-11.4
4262.500000	---	31.97	54.00	22.03	500.0	100.0	V	237.0	-6.5
4263.625000	44.47	---	74.00	29.53	500.0	100.0	V	237.0	-6.5
6386.500000	---	31.55	54.00	22.45	500.0	100.0	V	39.0	-4.2
6398.875000	44.53	---	74.00	29.47	500.0	100.0	V	255.0	-4.2
9192.250000	44.55	---	74.00	29.45	500.0	200.0	V	0.0	-1.0
9476.875000	---	33.03	54.00	20.97	500.0	100.0	V	65.0	0.0

Radiates Emission from 1GHz to 10GHz

Halow Wi-Fi (1M)- 903.5MHz

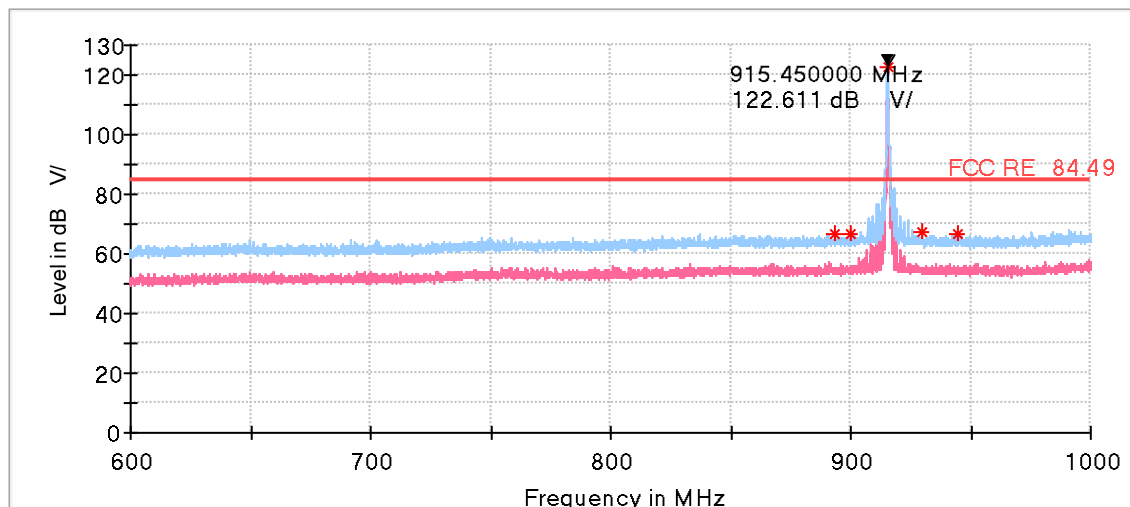


Note: The signal beyond the limit is carrier.

Radiates Emission from 600MHz to 1GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
899.150000	79.83	84.49	4.66	100.0	H	78.0	30.9
899.950000	82.51	84.49	1.98	100.0	H	267.0	30.9
900.850000	83.07	84.49	1.42	100.0	H	293.0	31.0
901.500000	81.00	84.49	3.49	100.0	H	237.0	31.0
903.650000	124.93	84.49	-40.44	100.0	H	267.0	31.0

Halow Wi-Fi (1M) – 915.5MHz

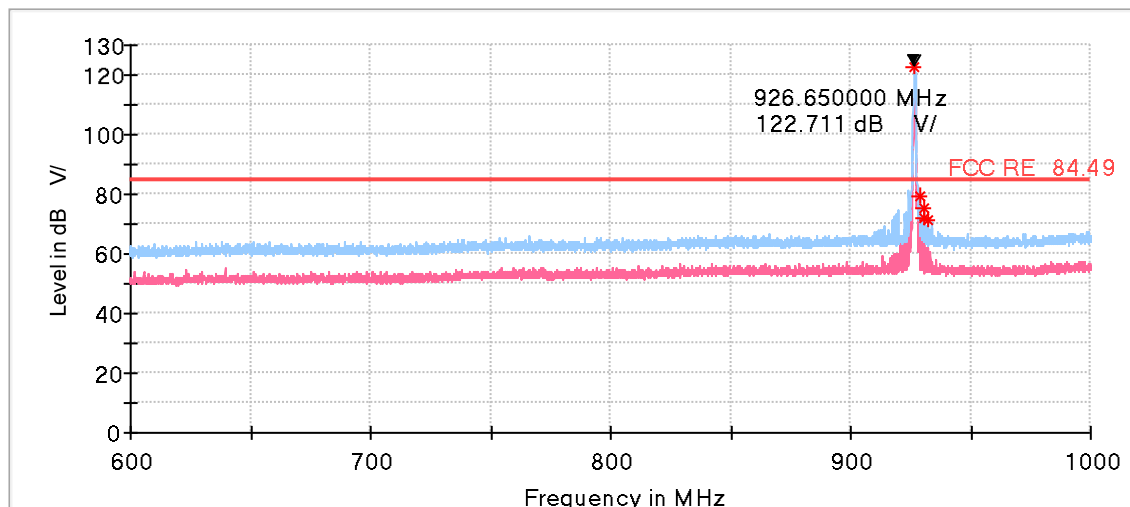


Note: The signal beyond the limit is carrier.

Radiates Emission from 600MHz to 1GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
893.200000	66.37	84.49	18.12	100.0	H	173.0	30.8
899.900000	66.82	84.49	17.67	100.0	H	260.0	30.9
915.450000	122.61	84.49	-38.12	100.0	H	248.0	31.0
929.550000	67.54	84.49	16.95	100.0	H	327.0	31.0
944.850000	66.39	84.49	18.10	100.0	H	204.0	30.7

Halow Wi-Fi (1M)-926.5MHz

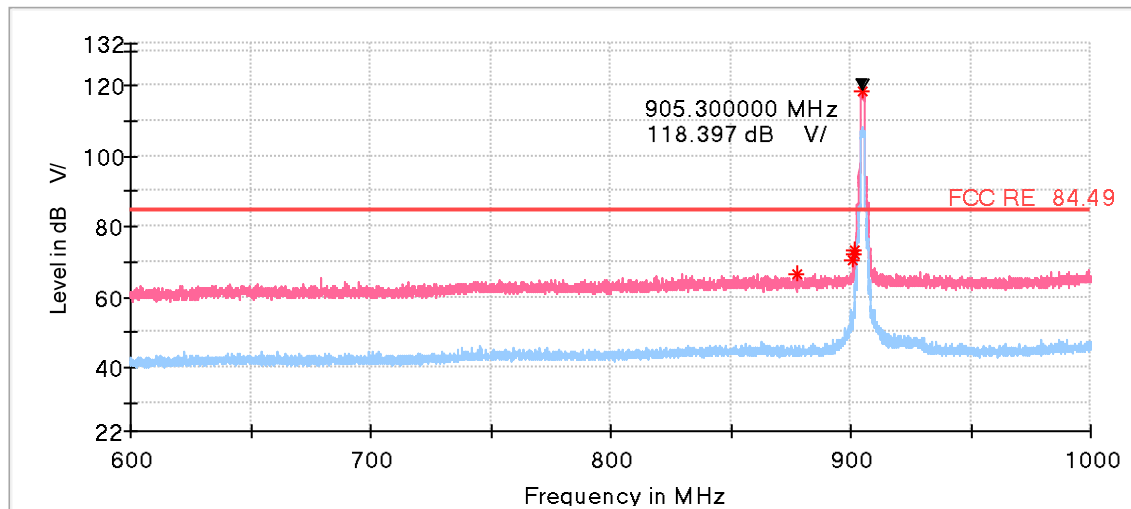


Note: The signal beyond the limit is carrier.

Radiates Emission from 600MHz to 1GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
926.650000	122.71	84.49	-38.22	100.0	H	276.0	31.0
929.100000	79.48	84.49	5.01	100.0	H	246.0	31.0
930.400000	75.18	84.49	9.31	100.0	H	289.0	31.0
930.750000	72.30	84.49	12.19	100.0	H	50.0	31.0
932.350000	71.37	84.49	13.12	100.0	H	282.0	31.0

Halow Wi-Fi (2M)- 905MHz

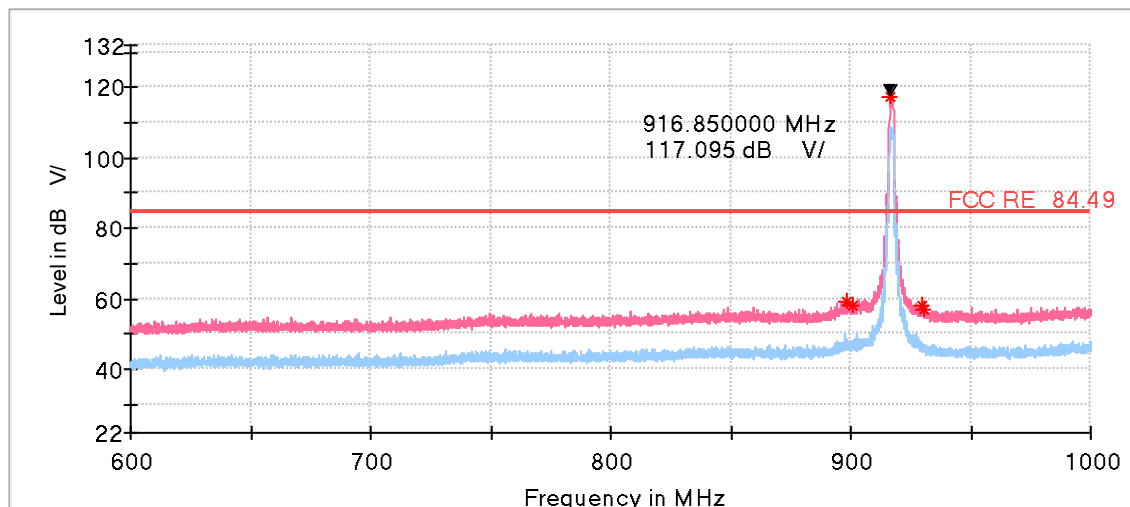


Note: The signal beyond the limit is carrier.

Radiates Emission from 600MHz to 1GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
877.700000	66.71	84.49	17.78	100.0	V	220.0	30.7
901.200000	70.58	84.49	13.91	100.0	V	177.0	31.0
901.650000	71.93	84.49	12.56	100.0	V	356.0	31.0
901.950000	73.52	84.49	10.97	100.0	V	28.0	31.0
905.300000	118.40	84.49	-33.91	100.0	V	32.0	31.0

Halow Wi-Fi (2M) - 917MHz

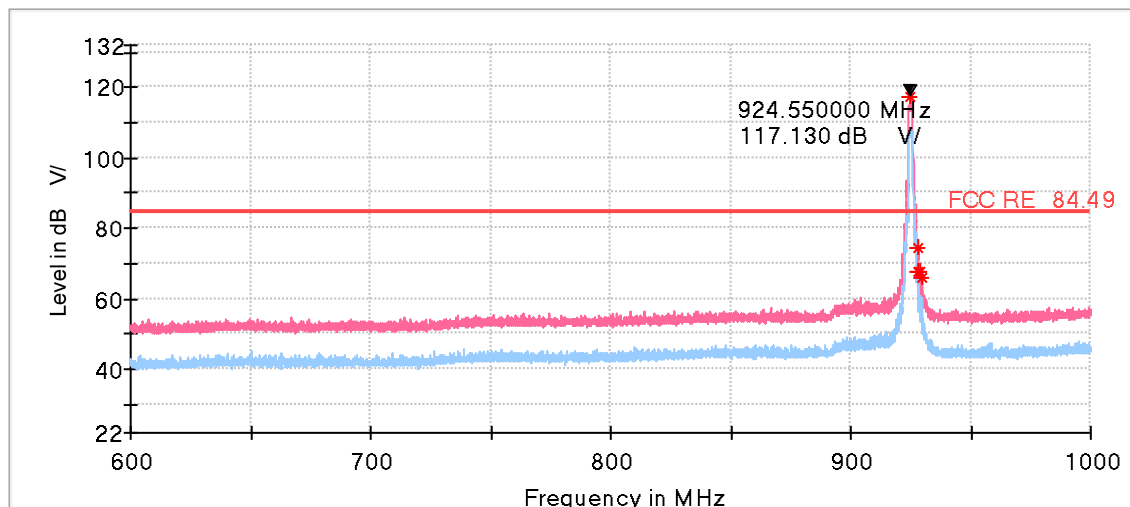


Note: The signal beyond the limit is carrier.

Radiates Emission from 600MHz to 1GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
898.400000	58.97	84.49	25.52	100.0	V	189.0	30.9
901.200000	58.29	84.49	26.20	100.0	V	33.0	31.0
916.850000	117.10	84.49	-32.61	100.0	V	30.0	31.1
929.750000	58.28	84.49	26.21	100.0	V	6.0	31.0
930.250000	56.97	84.49	27.52	100.0	V	216.0	31.0

Halow Wi-Fi (2M)-925MHz

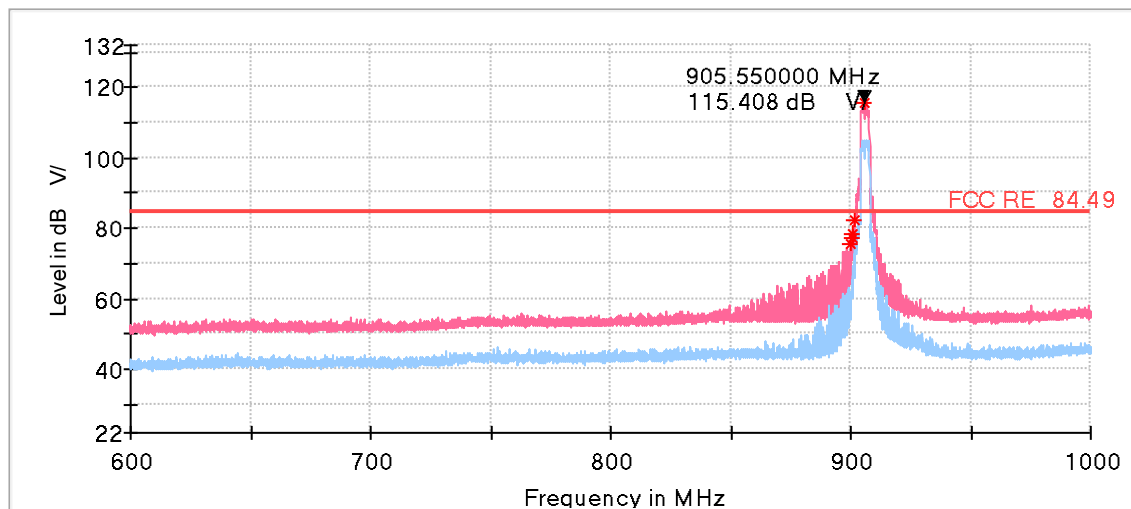


Note: The signal beyond the limit is carrier.

Radiates Emission from 600MHz to 1GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
924.550000	117.13	84.49	-32.64	200.0	V	191.0	31.1
928.000000	74.22	84.49	10.27	200.0	V	171.0	31.0
928.400000	67.87	84.49	16.62	200.0	V	201.0	31.0
928.700000	67.89	84.49	16.60	200.0	V	204.0	31.0
929.650000	66.15	84.49	18.34	200.0	V	204.0	31.0

Halow Wi-Fi (4M)- 906MHz

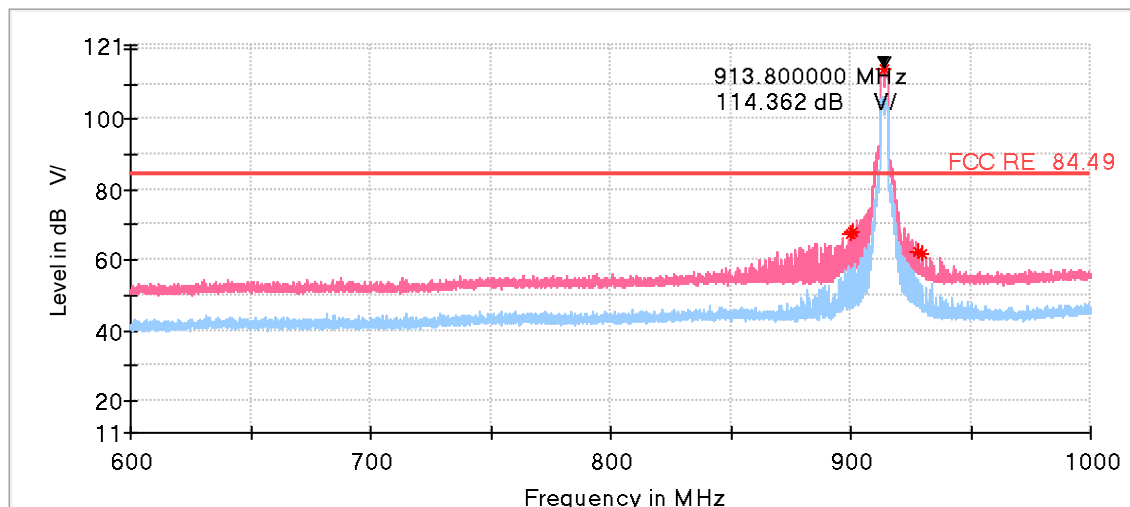


Note: The signal beyond the limit is carrier.

Radiates Emission from 600MHz to 1GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
900.300000	75.43	84.49	9.06	100.0	V	201.0	31.0
900.450000	77.14	84.49	7.35	100.0	V	36.0	31.0
900.650000	78.45	84.49	6.04	100.0	V	189.0	31.0
901.750000	82.42	84.49	2.07	100.0	V	26.0	31.0
905.550000	115.41	84.49	-30.92	100.0	V	36.0	31.0

Halow Wi-Fi (4M) - 914MHz

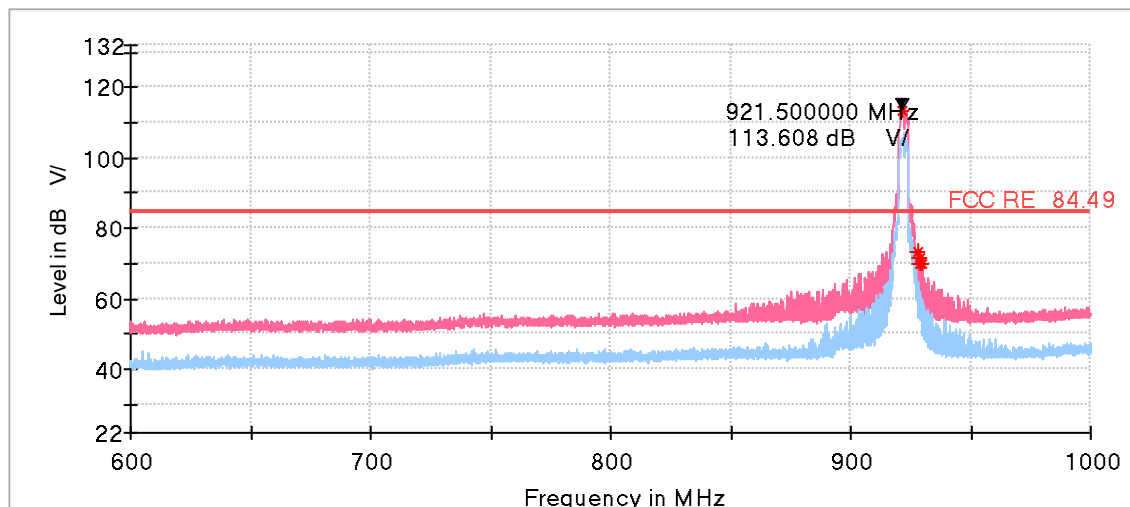


Note: The signal beyond the limit is carrier.

Radiates Emission from 600MHz to 1GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
899.850000	67.14	84.49	17.35	100.0	V	0.0	30.9
900.900000	67.95	84.49	16.54	100.0	V	29.0	31.0
913.800000	114.36	84.49	-29.87	100.0	V	26.0	31.0
928.150000	62.28	84.49	22.21	200.0	V	153.0	31.0
929.750000	62.01	84.49	22.48	100.0	V	33.0	31.0

Halow Wi-Fi (4M)-922MHz

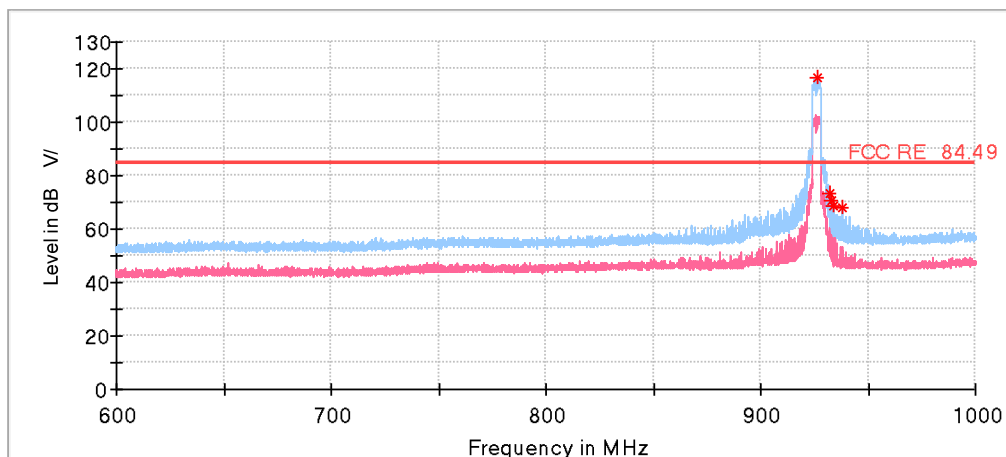


Note: The signal beyond the limit is carrier.

Radiates Emission from 600MHz to 1GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
921.500000	113.61	84.49	-29.12	100.0	V	27.0	31.1
928.100000	73.06	84.49	11.43	200.0	V	179.0	31.0
928.600000	71.47	84.49	13.02	100.0	V	30.0	31.0
929.050000	69.90	84.49	14.59	200.0	V	176.0	31.0
929.900000	69.89	84.49	14.60	200.0	V	206.0	31.0

Halow Wi-Fi (4M)-926MHz

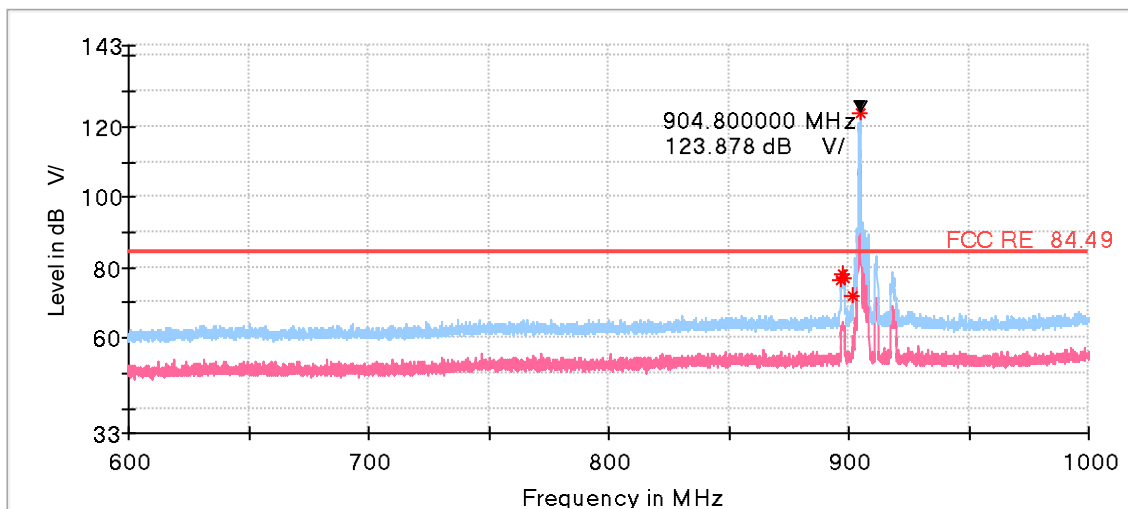


Note: The signal beyond the limit is carrier.

Radiates Emission from 600MHz to 1GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
926.650000	116.73	84.49	-32.24	100.0	H	279.0	43.0
932.100000	73.27	84.49	11.22	100.0	H	243.0	43.0
933.150000	70.81	84.49	13.68	100.0	H	47.0	43.0
933.800000	68.35	84.49	16.14	100.0	H	285.0	42.9
937.750000	67.67	84.49	16.82	100.0	H	243.0	42.9

Halow Wi-Fi (8M)- 908MHz

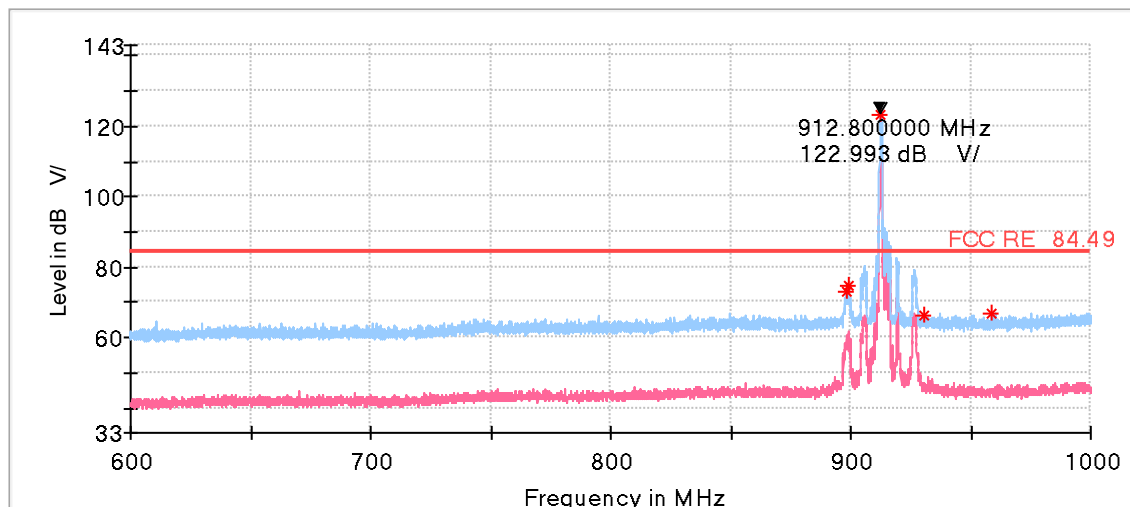


Note: The signal beyond the limit is carrier.

Radiates Emission from 600MHz to 1GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
896.500000	76.44	84.49	8.05	100.0	H	69.0	30.9
897.300000	78.00	84.49	6.49	100.0	H	79.0	30.9
898.500000	77.23	84.49	7.26	100.0	H	79.0	30.9
901.700000	71.96	84.49	12.53	100.0	H	69.0	31.0
904.800000	123.88	84.49	-39.39	100.0	H	84.0	31.0

Halow Wi-Fi (8M) - 916MHz

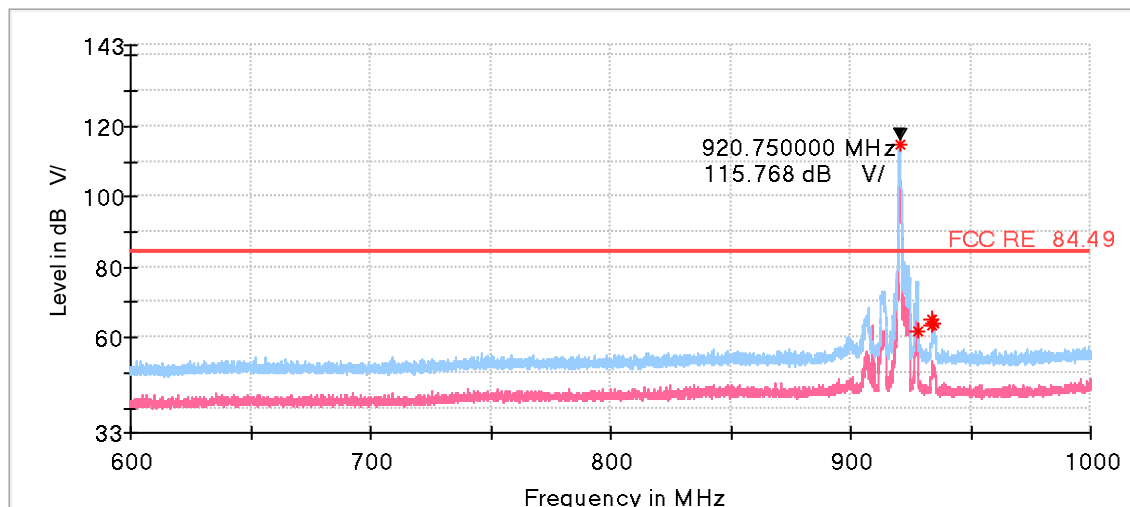


Note: The signal beyond the limit is carrier.

Radiates Emission from 600MHz to 1GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
898.050000	72.88	84.49	11.61	100.0	H	89.0	30.9
899.350000	74.61	84.49	9.88	100.0	H	74.0	30.9
912.800000	122.99	84.49	-38.50	100.0	H	89.0	31.0
930.850000	66.45	84.49	18.04	100.0	H	126.0	31.0
958.350000	67.03	84.49	17.46	100.0	H	94.0	30.6

Halow Wi-Fi (8M)-924MHz



Note: The signal beyond the limit is carrier.

Radiates Emission from 600MHz to 1GHz

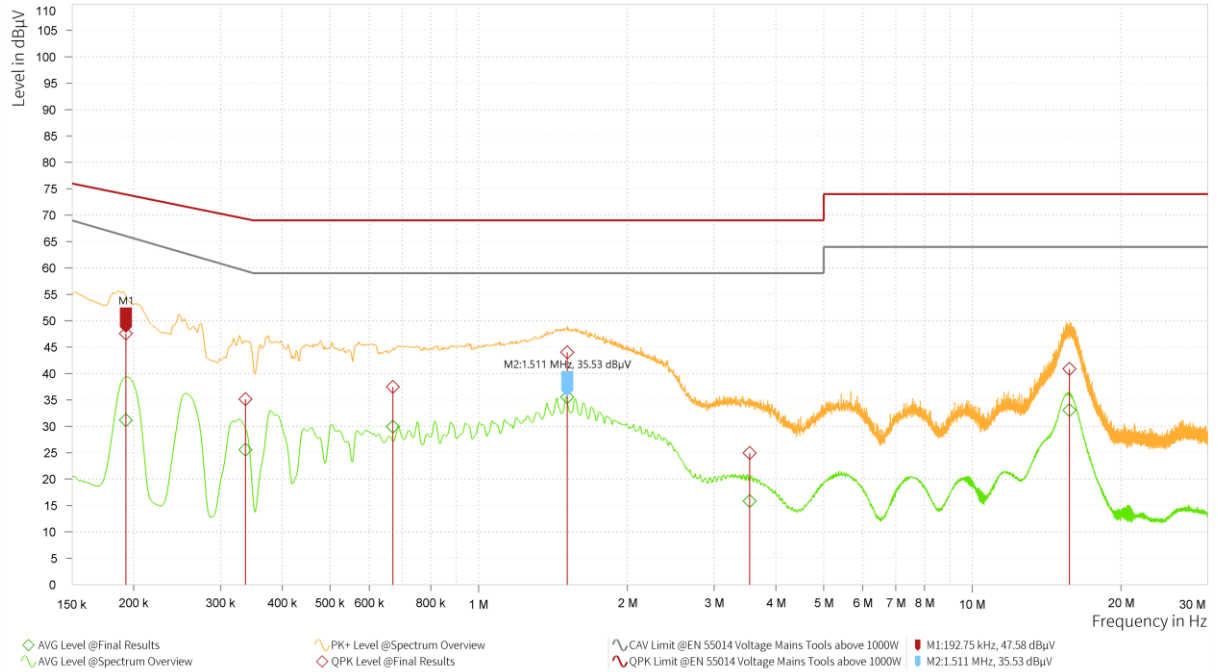
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
920.250000	114.70	84.49	-30.21	100.0	H	276.0	31.1
928.200000	61.85	84.49	22.64	100.0	H	265.0	31.0
933.750000	63.66	84.49	20.83	100.0	H	260.0	30.9
933.950000	64.97	84.49	25.36	100.0	H	90.0	30.9
934.700000	63.97	84.49	20.52	100.0	H	101.0	30.9

2. Conducted Emission

2.1. Halow Wi-Fi

During the test, the Conducted Emission was performed in all modes with all channel. The test data of the worst-case condition was recorded in this report.

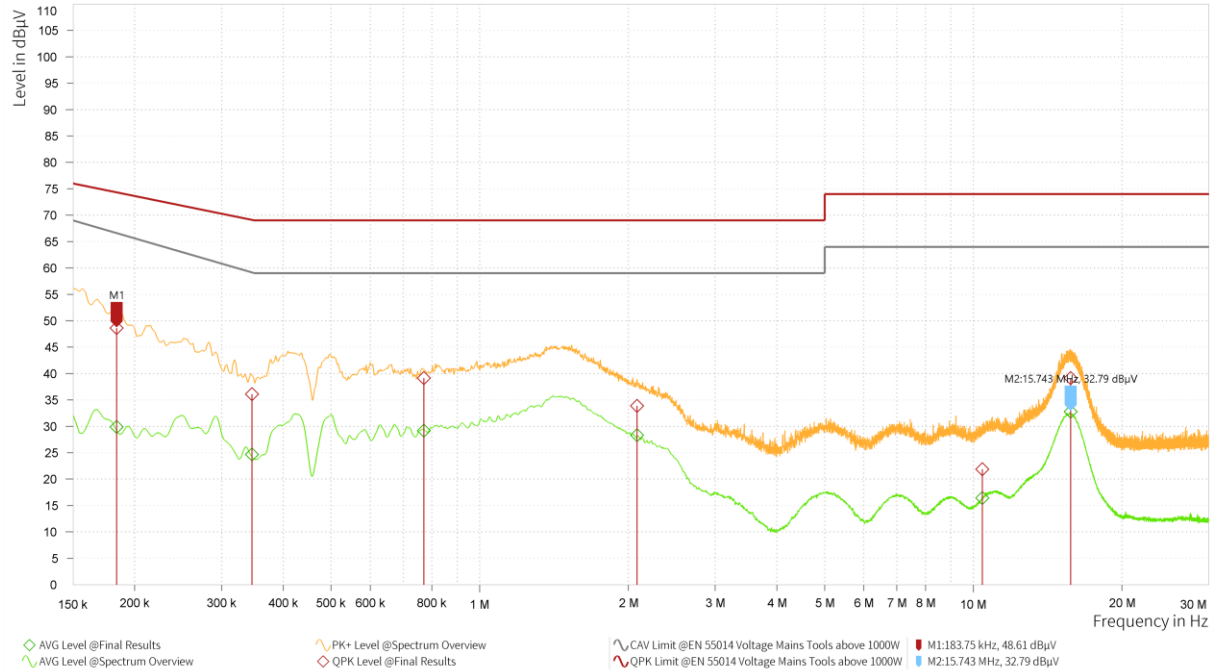
Antenna 1



Frequency [MHz]	QPK Level [dBμV]	QPK Limit [dBμV]	QPK Margin [dB]	AVG Level [dBμV]	AVG: CAV Limit [dBμV]	AVG Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
0.193	47.58	73.93	26.35	31.16	66.04	34.88	21.02	L1	9.000	1.000
0.337	35.15	69.32	34.17	25.57	59.46	33.89	20.93	L1	9.000	1.000
0.670	37.46	69.00	31.54	29.92	59.00	29.08	20.60	L1	9.000	1.000
1.511	44.01	69.00	24.99	35.53	59.00	23.47	19.84	L1	9.000	1.000
3.539	24.96	69.00	44.04	15.85	59.00	43.15	19.45	L1	9.000	1.000
15.731	40.87	74.00	33.13	33.06	64.00	30.94	19.53	L1	9.000	1.000

Remark: Correct factor=cable loss + LISN factor

L line Conducted Emission from 150 kHz to 30 MHz

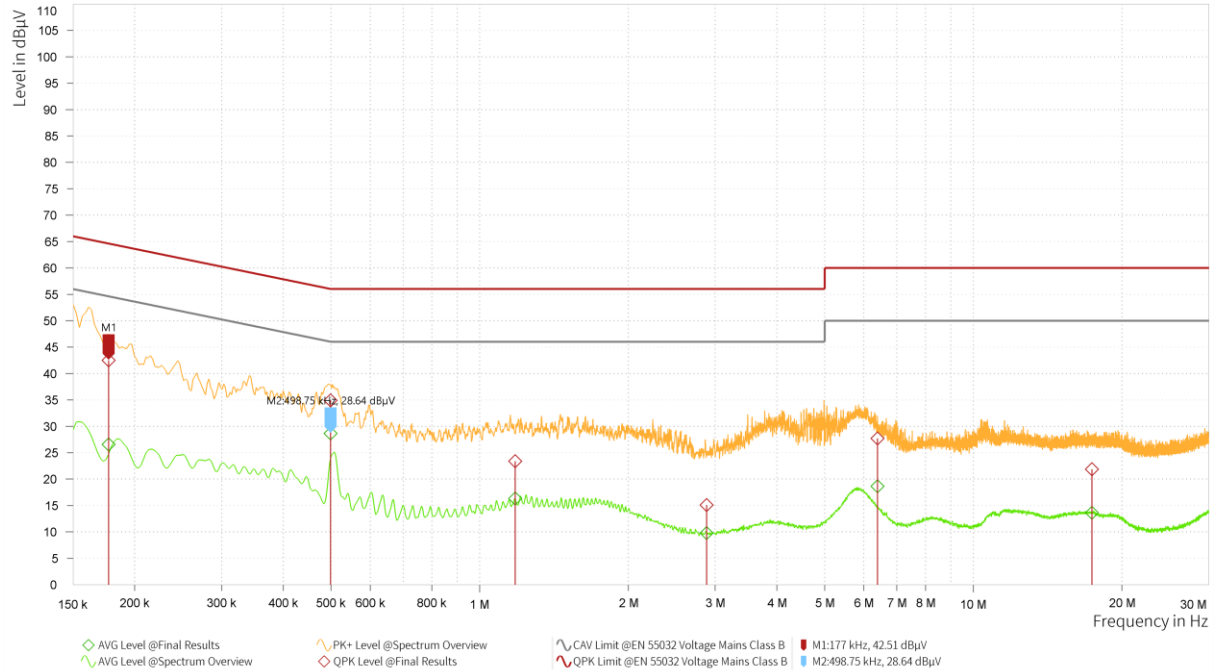


Frequency [MHz]	QPK Level [dBμV]	QPK Limit [dBμV]	QPK Margin [dB]	AVG Level [dBμV]	AVG: CAV Limit [dBμV]	AVG Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
0.184	48.61	74.32	25.71	29.87	66.60	36.73	21.04	N	9.000	1.000
0.346	36.11	69.10	32.99	24.66	59.14	34.48	20.94	N	9.000	1.000
0.771	39.12	69.00	29.88	29.17	59.00	29.83	20.36	N	9.000	1.000
2.083	33.89	69.00	35.11	28.33	59.00	30.67	19.64	N	9.000	1.000
10.435	21.87	74.00	52.13	16.40	64.00	47.60	19.44	N	9.000	1.000
15.743	39.12	74.00	34.88	32.79	64.00	31.21	19.56	N	9.000	1.000

Remark: Correct factor=cable loss + LISN factor

N line Conducted Emission from 150 kHz to 30 MHz

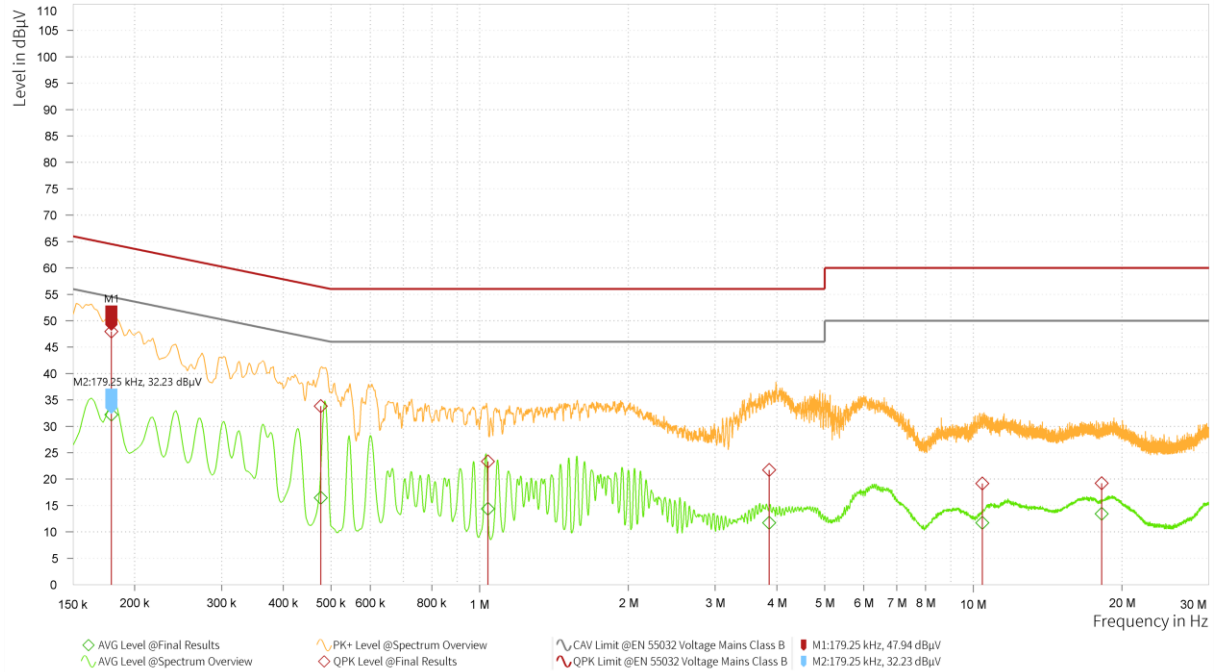
Antenna 2



Frequency [MHz]	QPK Level [dBμV]	QPK Limit [dBμV]	QPK Margin [dB]	AVG Level [dBμV]	AVG: CAV Limit [dBμV]	AVG Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
0.177	42.51	64.63	22.11	26.57	54.63	28.06	21.03	L1	9.000	1.000
0.499	34.92	56.02	21.10	28.64	46.02	17.38	20.78	L1	9.000	1.000
1.181	23.38	56.00	32.62	16.31	46.00	29.69	20.03	L1	9.000	1.000
2.882	15.10	56.00	40.90	9.79	46.00	36.21	19.50	L1	9.000	1.000
6.394	27.69	60.00	32.31	18.62	50.00	31.38	19.40	L1	9.000	1.000
17.387	21.85	60.00	38.15	13.60	50.00	36.40	19.58	L1	9.000	1.000

Remark: Correct factor=cable loss + LISN factor

L line Conducted Emission from 150 kHz to 30 MHz



Frequency [MHz]	QPK Level [dBμV]	QPK Limit [dBμV]	QPK Margin [dB]	AVG Level [dBμV]	AVG: CAV Limit [dBμV]	AVG Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
0.179	47.94	64.52	16.58	32.23	54.52	22.29	21.04	N	9.000	1.000
0.476	33.84	56.40	22.57	16.45	46.40	29.95	20.81	N	9.000	1.000
1.039	23.32	56.00	32.68	14.38	46.00	31.62	20.14	N	9.000	1.000
3.858	21.72	56.00	34.28	11.73	46.00	34.27	19.44	N	9.000	1.000
10.435	19.18	60.00	40.82	11.70	50.00	38.31	19.44	N	9.000	1.000
18.209	19.21	60.00	40.79	13.43	50.00	36.57	19.65	N	9.000	1.000

Remark: Correct factor=cable loss + LISN factor

N line Conducted Emission from 150 kHz to 30 MHz