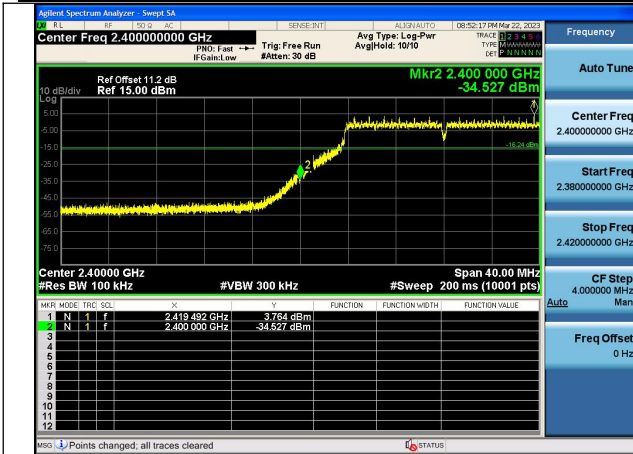
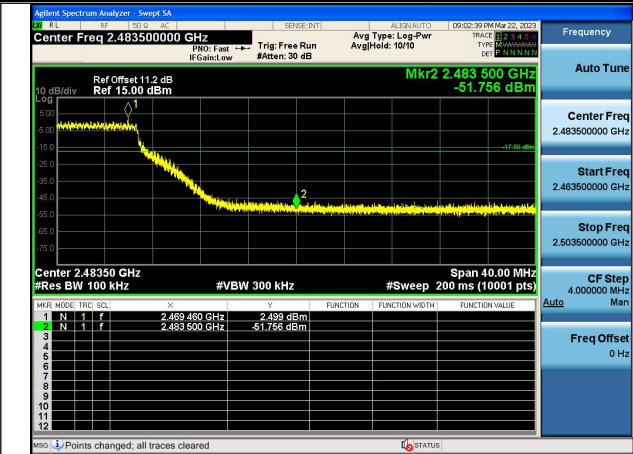


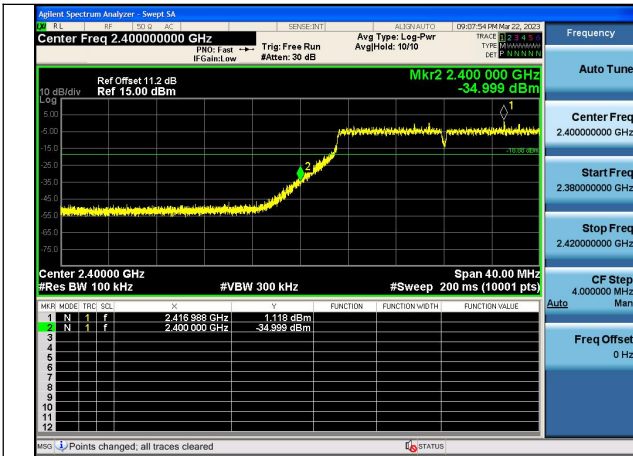


Test Mode:802.11g 2412MHz Chain1

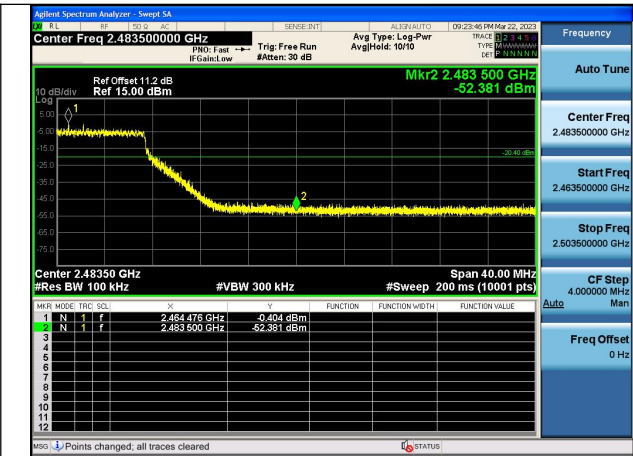


Test Mode:802.11g 2462MHz Chain1

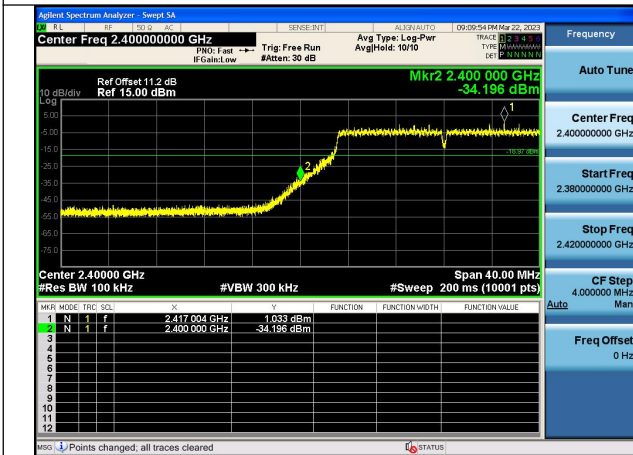
Test Mode: 802.11n HT20



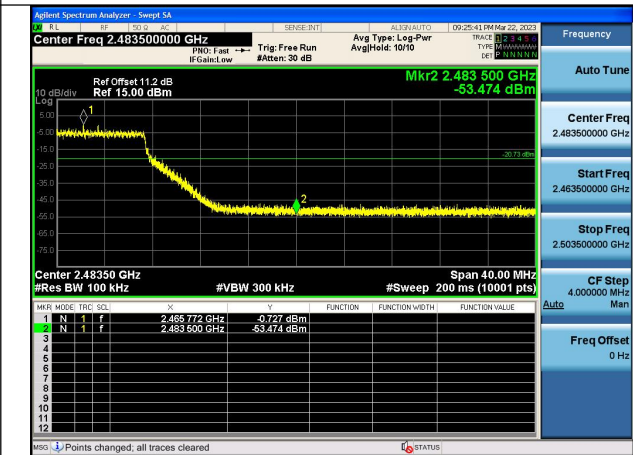
Test Mode:802.11n HT20 2412MHz Chain0



Test Mode:802.11n HT20 2462MHz Chain0

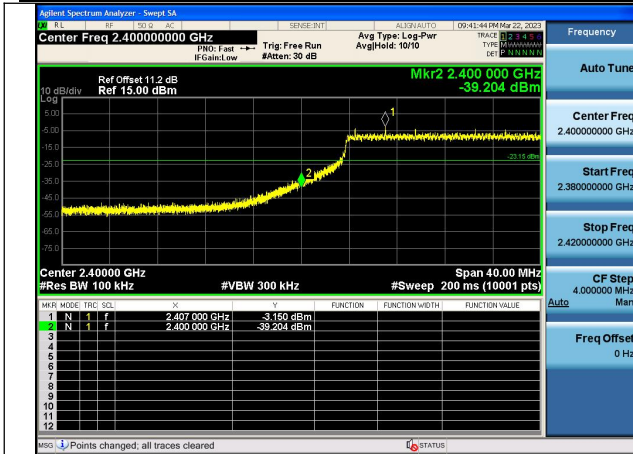


Test Mode:802.11n HT20 2412MHz Chain1

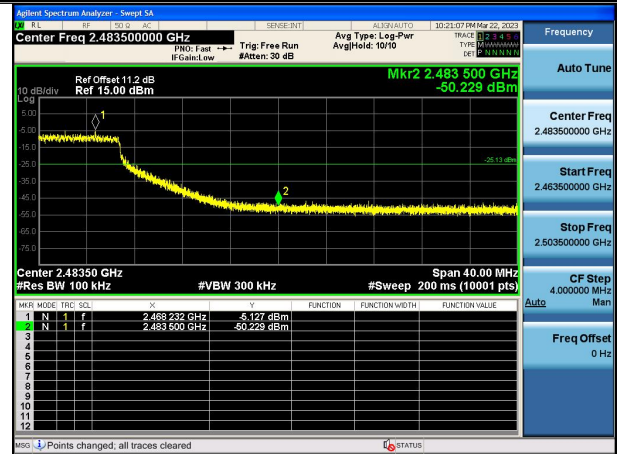


Test Mode:802.11n HT20 2462MHz Chain1

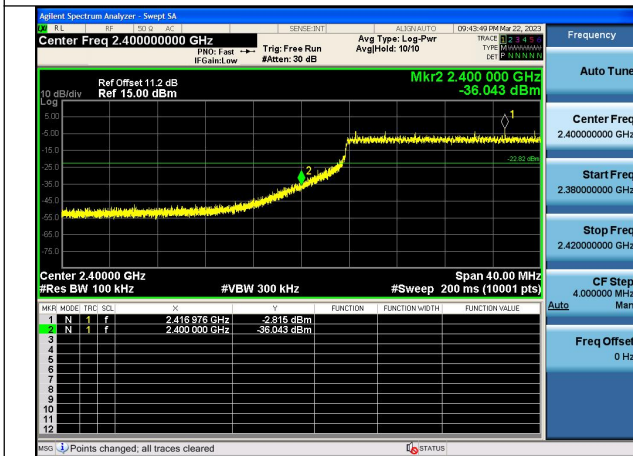
Test Mode: 802.11n HT40



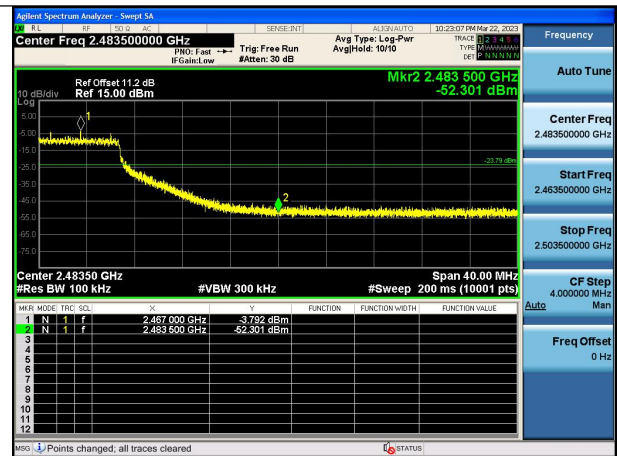
Test Mode:802.11n HT40 2422MHz Chain0



Test Mode:802.11n HT40 2452MHz Chain0



Test Mode:802.11n HT40 2422MHz Chain1



Test Mode:802.11n HT40 2452MHz Chain1

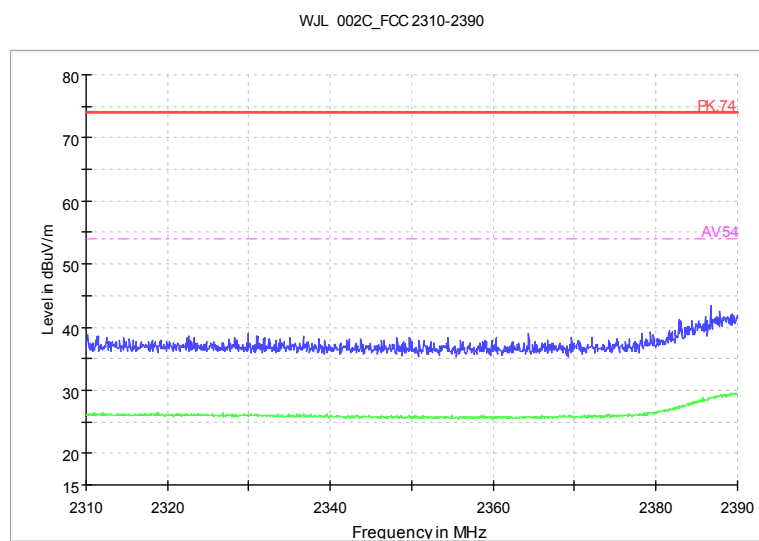
APPENDIX B – TEST DATA OF RADIATED EMISSION

Note1:Both horizontal and vertical polarizations of the antenna are set to make the measurement.

Note2:Because the test result is more than 20dB below the limit value, there was no point being taken

Radiated Emission Band Edge

After comparison the worst case attitude is EUT vertical. The relevant tests have been performed in order to verify in which mode would have the worst features, the result show above is the worst case.



Comment

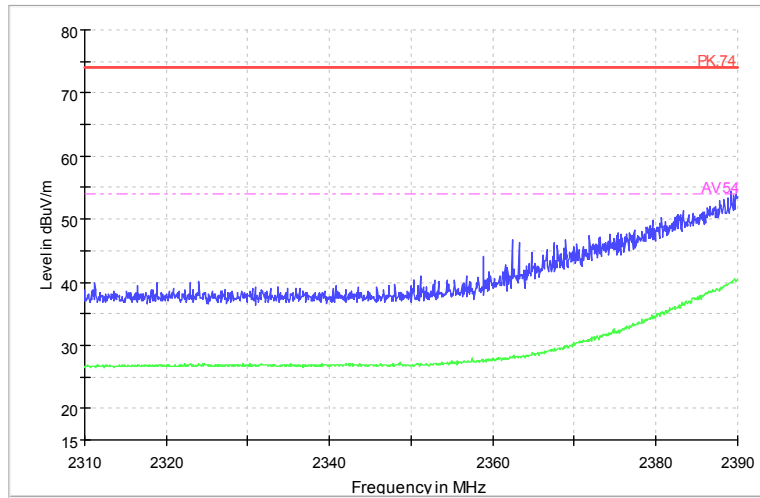
Radiated Emission Band Edge

Channel No.:1

Test Mode: 802.11b

Polarization: V

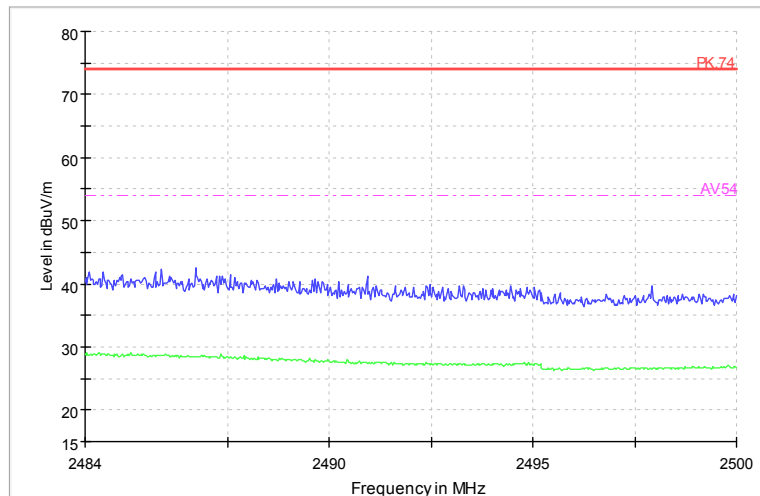
WJL 002C_FCC 2310-2390



Comment

Radiated Emission Band Edge
Channel No.:1
Test Mode: 802.11b
Polarization: H

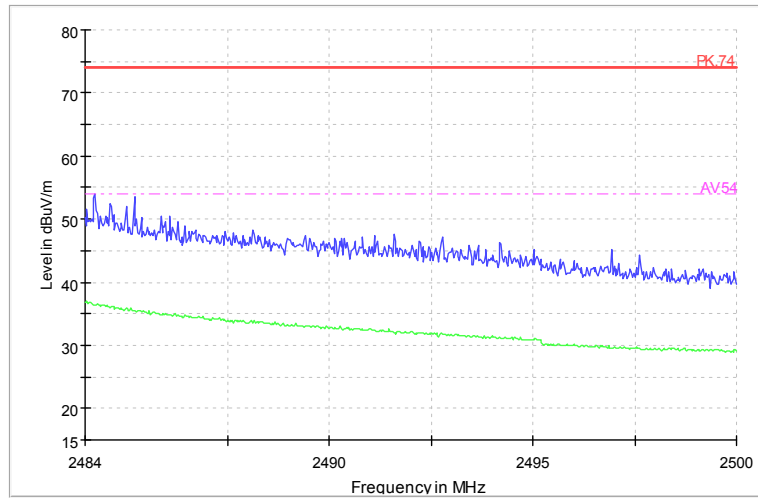
WJL 002C_FCC 2483-2500



Comment

Radiated Emission Band Edge
Channel No.:11
Test Mode: 802.11b
Polarization: V

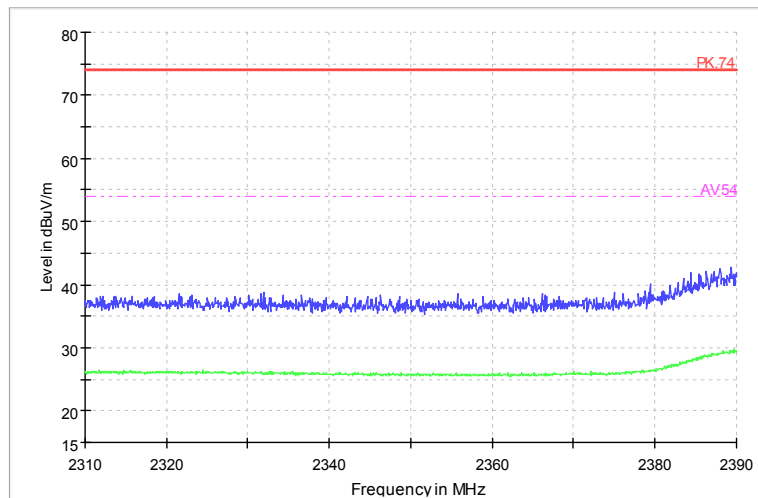
WJL 002C_FCC 2483-2500



Comment

Radiated Emission Band Edge
Channel No.:11
Test Mode: 802.11b
Polarization: H

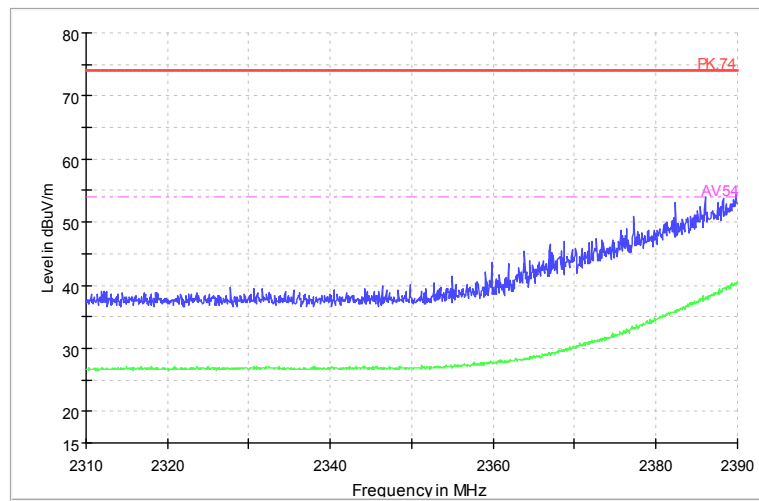
WJL 002C_FCC 2310-2390



Comment

Radiated Emission Band Edge
Channel No.:1
Test Mode: 802.11g
Polarization: V

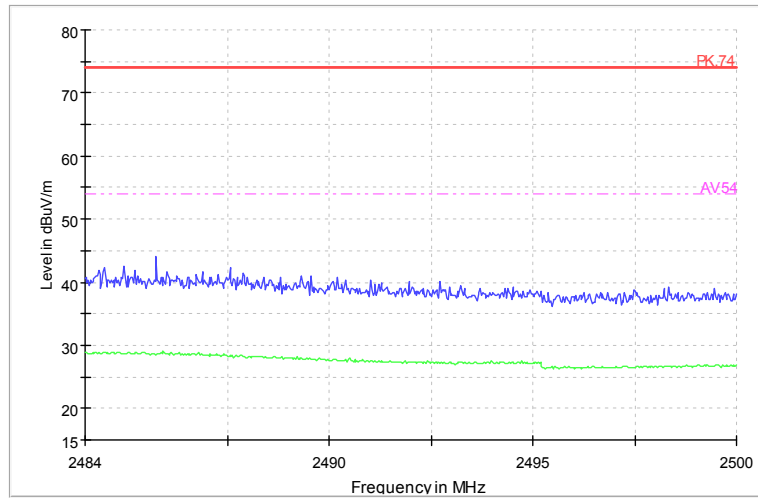
WJL 002C_FCC 2310-2390



Comment

Radiated Emission Band Edge
Channel No.:1
Test Mode: 802.11g
Polarization: H

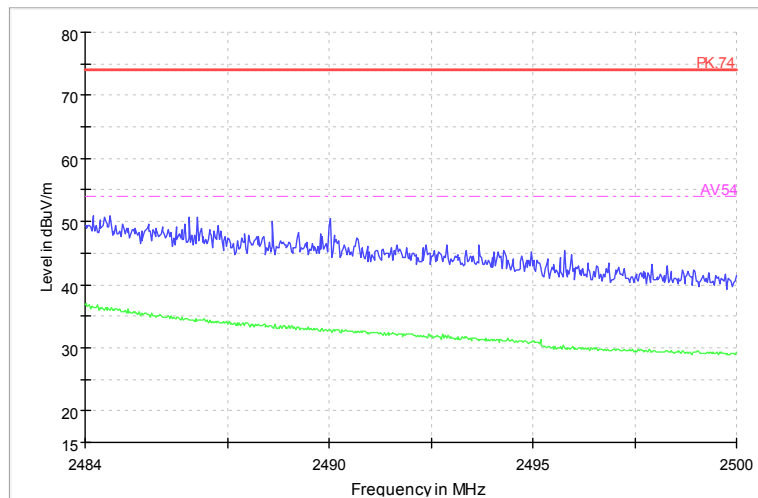
WJL 002C_FCC 2483-2500



Comment

Radiated Emission Band Edge
Channel No.:11
Test Mode: 802.11g
Polarization: V

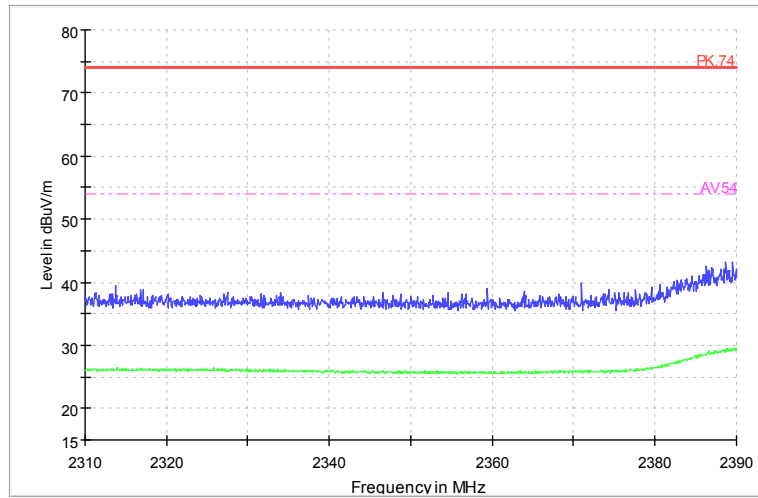
WJL 002C_FCC 2483-2500



Comment

Radiated Emission Band Edge
Channel No.:11
Test Mode: 802.11g
Polarization: H

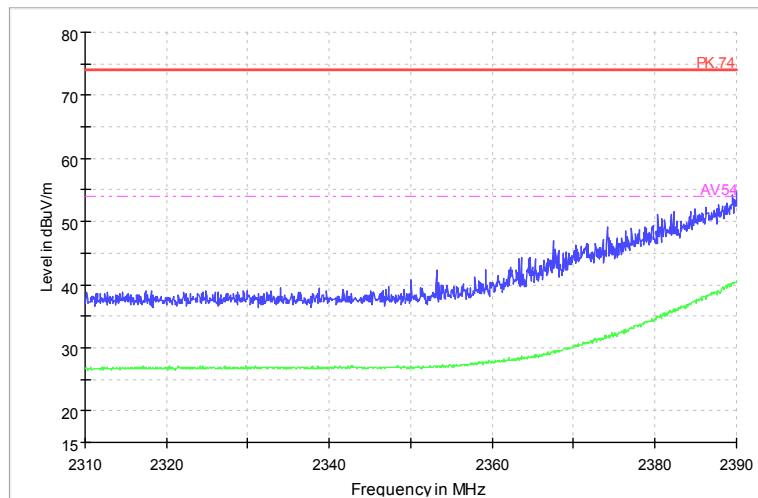
WJL 002C_FCC 2310-2390



Comment

Radiated Emission Band Edge
Channel No.:1
Test Mode: 802.11n
Polarization: V

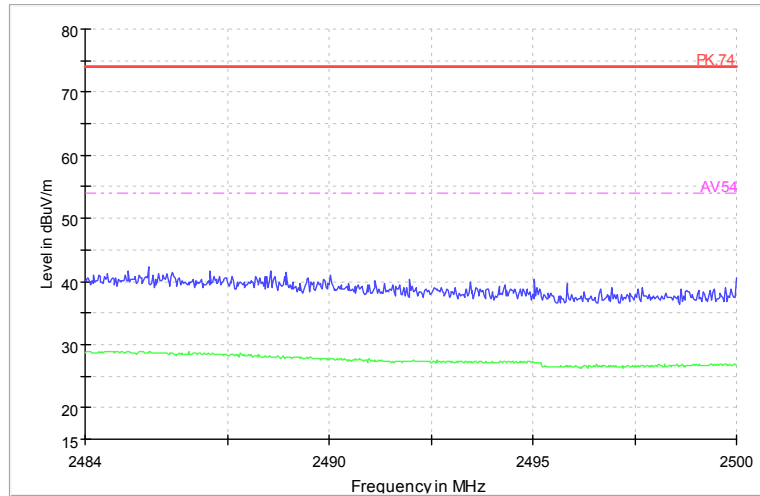
WJL 002C_FCC 2310-2390



Comment

Radiated Emission Band Edge
Channel No.:1
Test Mode: 802.11n
Polarization: H

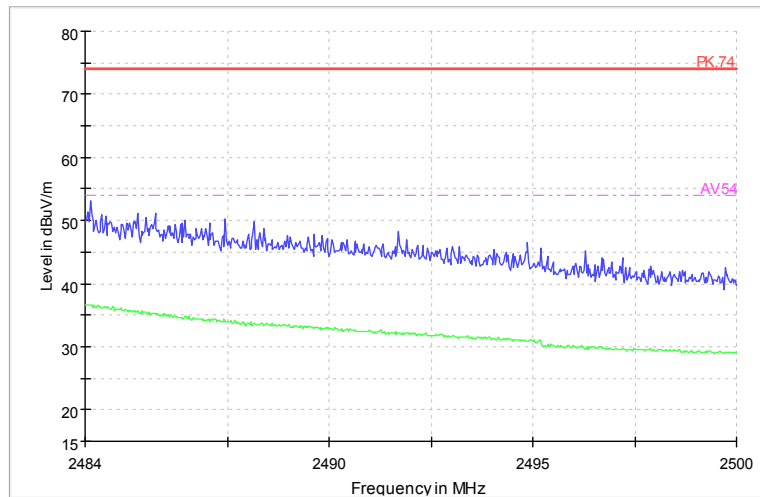
WJL 002C_FCC 2483-2500



Comment

Radiated Emission Band Edge
Channel No.:11
Test Mode: 802.11n
Polarization: V

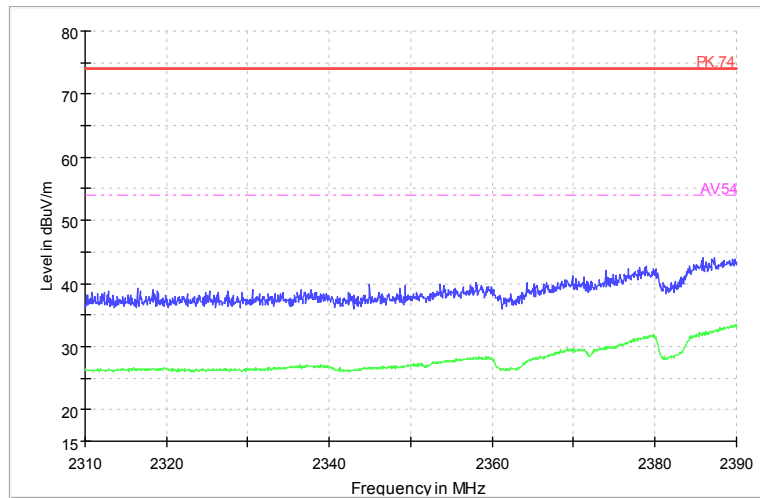
WJL 002C_FCC 2483-2500



Comment

Radiated Emission Band Edge
Channel No.:11
Test Mode: 802.11n
Polarization: H

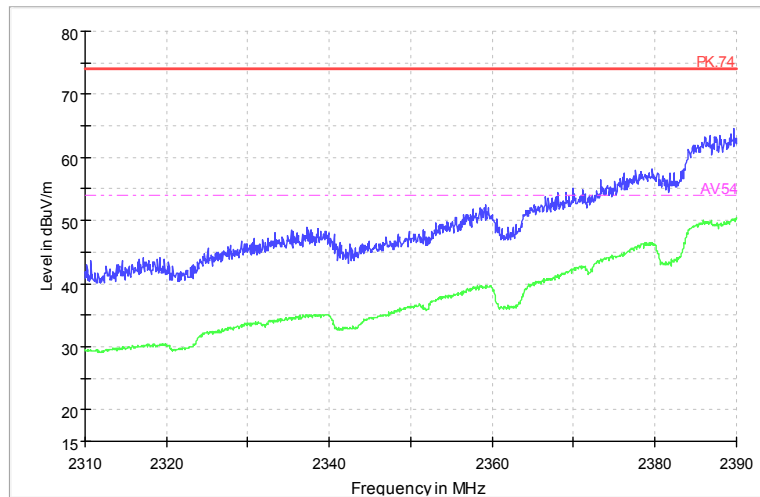
WJL 002C_FCC 2310-2390



Comment

Radiated Emission Band Edge
Channel No.:3
Test Mode: 802.11n40
Polarization: V

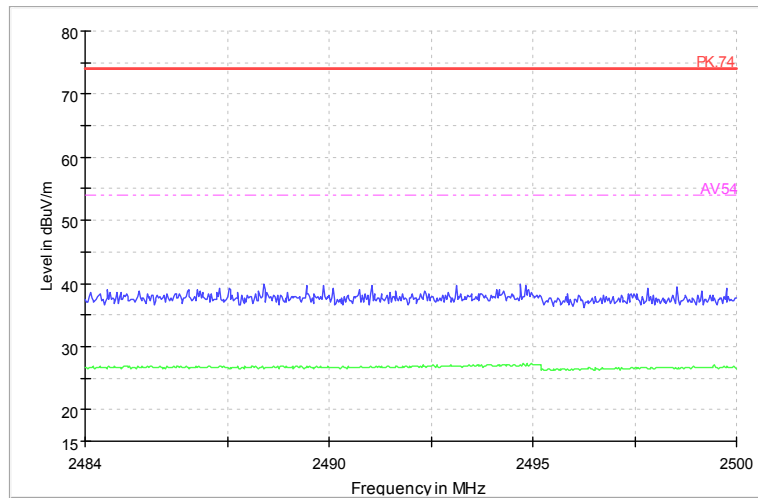
WJL 002C_FCC 2310-2390



Comment

Radiated Emission Band Edge
Channel No.:3
Test Mode: 802.11n40
Polarization: H

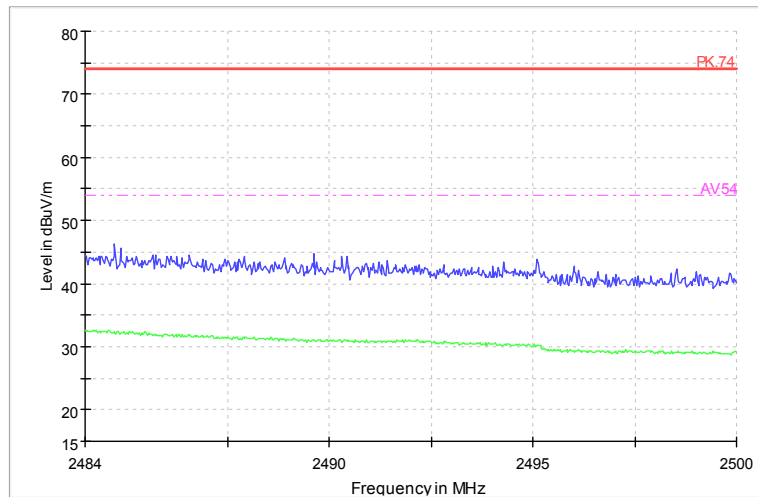
WJL 002C_FCC 2483-2500



Comment

Radiated Emission Band Edge
Channel No.:9
Test Mode: 802.11n40
Polarization: V

WJL 002C_FCC 2483-2500



Comment

Radiated Emission Band Edge
Channel No.:9
Test Mode: 802.11n40
Polarization: H

Test result

Sample Calculations

Determining Spurious Emissions Levels

A “reference path loss” is established and the A_{Rpl} is the attenuation of “reference path loss”, and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

The measurement results are obtained as described below:

$$\text{Result} = P_{\text{mea}} + A_{Rpl}$$

Sample calculation: $(2.35\text{dB}\mu\text{V/m}) = (20.55\text{dB}\mu\text{V/m}) + (-18.2\text{dB})$, the corresponding frequency is 42.367500MHz.

The worst case attitude: The Module lay down.

For 802.11b Channel No.:1

Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	ARpl (dB/m)	Pmea (dBuV)	Polarity
42.367500	2.35	40.00	37.65	-18.2	20.55	Vertical
57.160000	4.65	40.00	35.35	-18.5	23.15	Vertical
99.209500	3.87	43.50	39.63	-19.2	23.07	Vertical
180.786500	2.62	43.50	40.88	-20.9	23.52	Vertical
545.312500	11.29	46.00	34.71	-9.8	21.09	Vertical
898.635000	16.33	46.00	29.67	-3.3	19.63	Vertical

For 802.11g Channel No.:1

Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	ARpl (dB/m)	Pmea (dBuV)	Polarity
51.485500	5.27	40.00	34.73	-17.7	5.27	Vertical
56.917500	4.18	40.00	35.82	-18.4	4.18	Vertical
144.120500	1.08	43.50	42.42	-22.7	1.08	Vertical
199.459000	2.44	43.50	41.06	-19.2	2.44	Vertical
327.838500	7.06	46.00	38.94	-15.2	7.06	Vertical
957.126000	16.64	46.00	29.36	-2.6	16.64	Vertical

For 802.11n(HT20) Channel No.:1

Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	ARpl (dB/m)	Pmea (dBuV)	Polarity
51.776500	5.37	40.00	34.63	-17.8	23.17	Vertical
57.451000	4.56	40.00	35.44	-18.5	23.06	Vertical
98.967000	5.93	43.50	37.57	-19.3	25.23	Vertical
264.109500	3.66	46.00	42.34	-16.9	20.56	Vertical
505.203000	11.01	46.00	34.99	-10.7	21.71	Vertical
925.504000	16.50	46.00	29.50	-2.9	19.40	Vertical

For 802.11b Channel No.:6

Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	ARpl (dB/m)	Pmea (dBuV)	Polarity
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40.912500	4.38	40.00	35.62	-18.4	22.78	Vertical
59.003000	4.47	40.00	35.53	-18.7	23.17	Vertical
98.433500	3.27	43.50	40.23	-19.4	22.67	Vertical
202.466000	1.88	43.50	41.62	-19.0	20.88	Vertical
532.945000	11.31	46.00	34.69	-10.1	21.41	Vertical
905.279500	16.26	46.00	29.74	-3.2	19.46	Vertical

For 802.11g Channel No.:6

Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	ARpl (dB/m)	Pmea (dBuV)	Polarity
30.533500	0.78	40.00	39.22	-21.1	21.88	Vertical
54.056000	2.77	40.00	37.23	-18.1	20.87	Vertical
104.932500	3.01	43.50	40.49	-19.4	22.41	Vertical
285.498000	3.75	46.00	42.25	-16.4	20.15	Vertical
532.993500	11.31	46.00	34.69	-10.1	21.41	Vertical
887.819500	16.12	46.00	29.88	-3.5	19.62	Vertical

For 802.11n(HT20) Channel No.:6

Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	ARpl (dB/m)	Pmea (dBuV)	Polarity
50.952000	5.04	40.00	34.96	-17.6	22.64	Vertical
57.063000	4.35	40.00	35.65	-18.4	22.75	Vertical
98.627500	5.89	43.50	37.61	-19.4	25.29	Vertical
280.745000	3.65	46.00	42.35	-16.6	20.25	Vertical
544.585000	11.24	46.00	34.76	-9.8	21.04	Vertical
883.406000	16.00	46.00	30.00	-3.6	19.60	Vertical

For 802.11b Channel No.:11

Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	ARpl (dB/m)	Pmea (dBuV)	Polarity
50.855000	5.01	40.00	34.99	-17.6	22.61	Vertical
85.969000	-0.02	40.00	40.02	-22.6	22.58	Vertical
116.669500	2.12	43.50	41.38	-20.8	22.92	Vertical
199.701500	2.51	43.50	40.99	-19.2	21.71	Vertical
531.102000	11.24	46.00	34.76	-10.1	21.34	Vertical
946.068000	16.35	46.00	29.65	-2.8	19.15	Vertical

For 802.11g Channel No.:11

Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	ARpl (dB/m)	Pmea (dBuV)	Polarity
52.698000	4.58	40.00	35.42	-17.9	22.48	Vertical
57.839000	4.54	40.00	35.46	-18.5	23.04	Vertical
105.272000	2.85	43.50	40.65	-19.4	22.25	Vertical

196.500500	2.43	43.50	41.07	-19.3	21.73	Vertical
499.480000	10.87	46.00	35.13	-10.8	21.67	Vertical
950.627000	16.47	46.00	29.53	-2.7	19.17	Vertical

For 802.11n(HT20) Channel No.:11

Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	ARpl (dB/m)	Pmea (dBuV)	Polarity
43.919500	4.33	40.00	35.67	-18.0	22.33	Vertical
56.772000	3.98	40.00	36.02	-18.4	22.38	Vertical
99.306500	5.67	43.50	37.83	-19.2	24.87	Vertical
295.004000	3.50	46.00	42.50	-16.2	19.70	Vertical
545.797500	11.10	46.00	34.90	-9.8	20.90	Vertical
942.430500	16.34	46.00	29.66	-2.8	19.14	Vertical

For 802.11 n(HT40) Channel No.:3

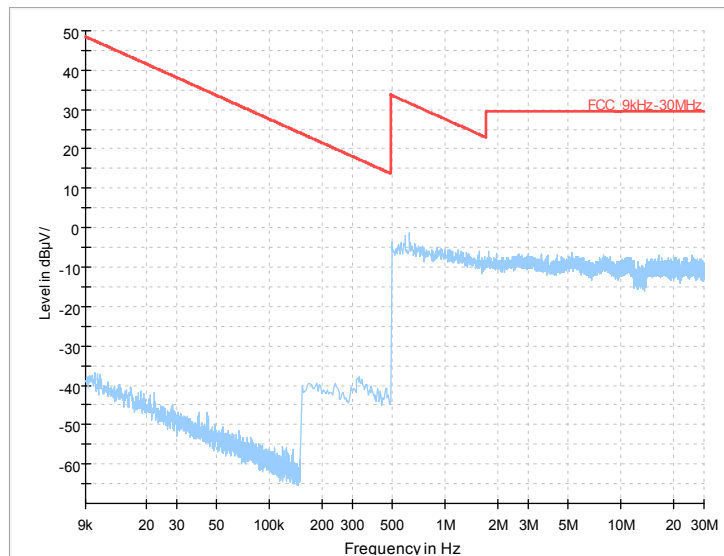
Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	ARpl (dB/m)	Pmea (dBuV)	Polarity
39.554500	5.28	40.00	34.72	-18.6	23.88	Vertical
57.839000	4.56	40.00	35.44	-18.5	23.06	Vertical
118.658000	3.07	43.50	40.43	-21.2	24.27	Vertical
284.382500	3.77	46.00	42.23	-16.5	20.27	Vertical
512.090000	11.13	46.00	34.87	-10.5	21.63	Vertical
940.781500	16.40	46.00	29.60	-2.8	19.20	Vertical

For 802.11 n(HT40) Channel No.:6

Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	ARpl (dB/m)	Pmea (dBuV)	Polarity
46.102000	4.87	40.00	35.13	-17.8	22.67	Vertical
89.412500	0.42	43.50	43.08	-21.5	21.92	Vertical
143.781000	0.29	43.50	43.21	-22.7	22.99	Vertical
181.562500	2.84	43.50	40.66	-20.8	23.64	Vertical
493.514500	10.62	46.00	35.38	-10.9	21.52	Vertical
929.044500	16.35	46.00	29.65	-2.9	19.25	Vertical

For 802.11 n(HT40) Channel No.:9

Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	ARpl (dB/m)	Pmea (dBuV)	Polarity
40.330500	3.86	40.00	36.14	-18.5	22.36	Vertical
57.790500	4.36	40.00	35.64	-18.5	22.86	Vertical
60.021500	2.28	40.00	37.72	-18.9	21.18	Vertical
60.312500	1.97	40.00	38.03	-19.0	20.97	Vertical
61.476500	1.01	40.00	38.99	-19.3	20.31	Vertical
62.010000	1.06	40.00	38.94	-19.5	20.56	Vertical



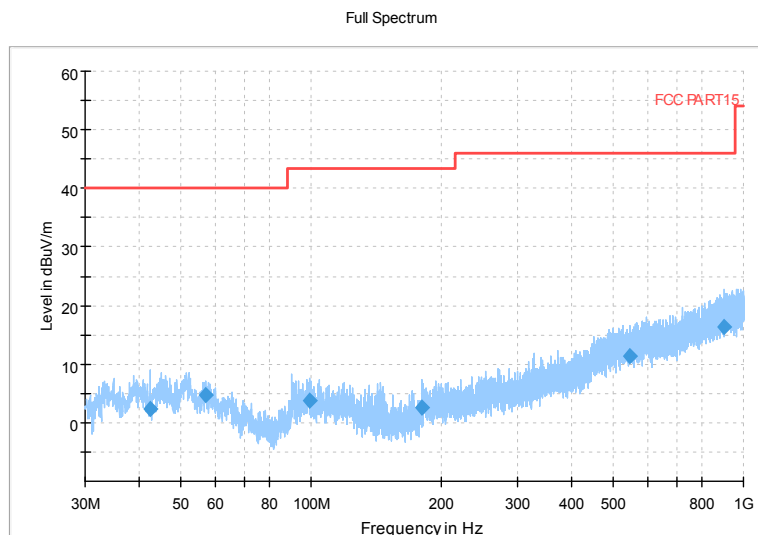
Frequency Range: 9kHz -30MHz

Detector: QP mode

Note: The relevant tests have been performed in order to verify in which mode would have the worst features, the result show above is the worst case.

Carrier frequency (MHz): 2412

Channel No.:1



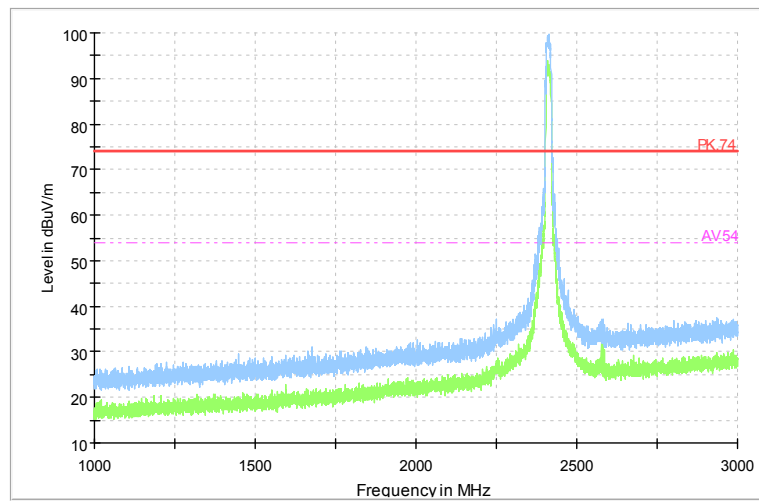
Comment

Frequency Range: 30MHz -1GHz

Detector: QP mode

Test Mode: 802.11b

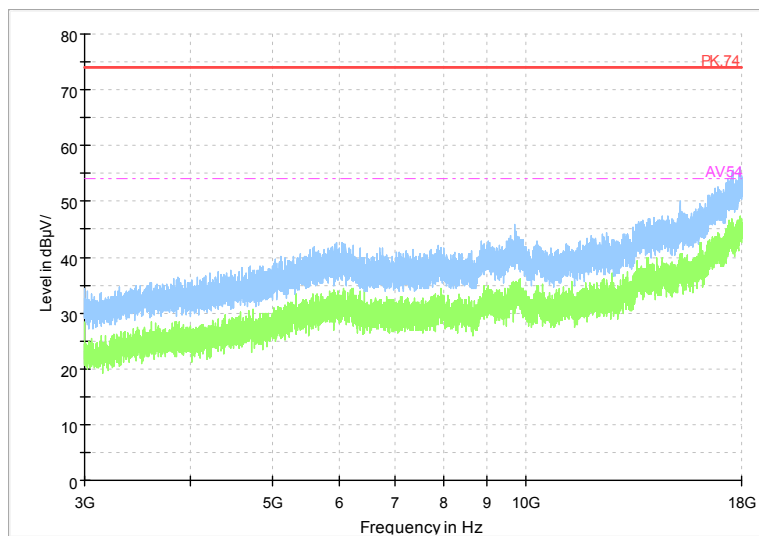
Full Spectrum



Comment

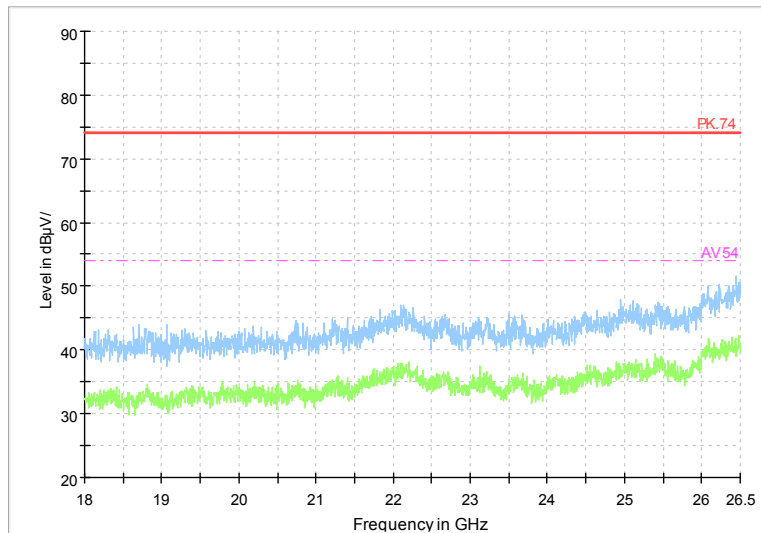
Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

Full Spectrum



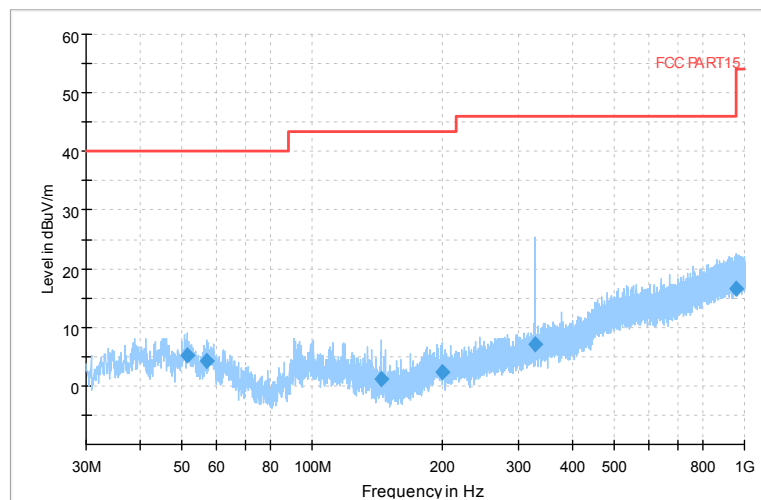
Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

Full Spectrum



Frequency Range: 18GHz -25GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

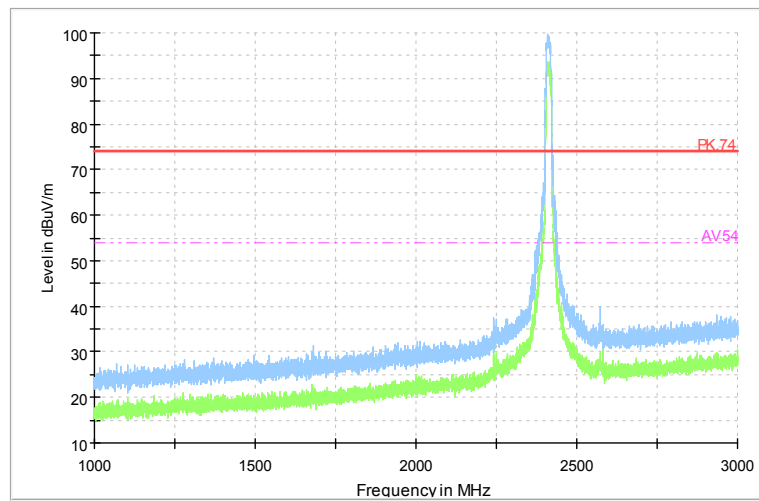
Full Spectrum



Comment

Frequency Range: 30MHz -1GHz
Detector: QP mode
Modulation type: 802.11g

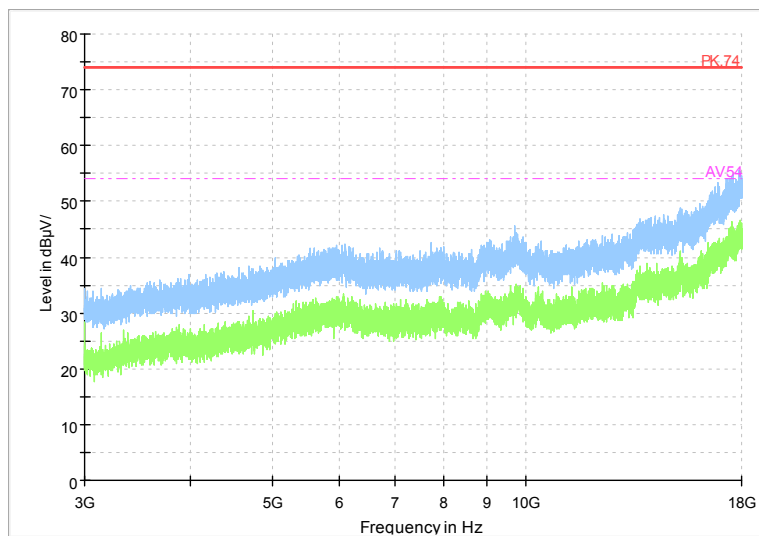
Full Spectrum



Comment

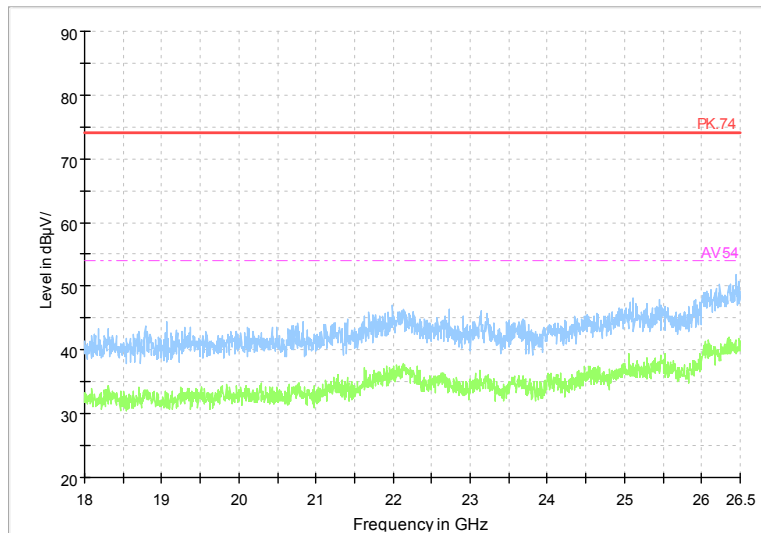
Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11g

Full Spectrum



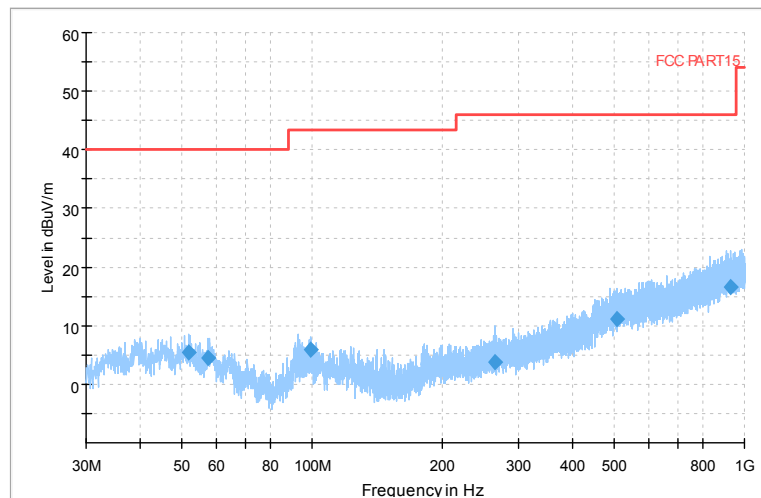
Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11g

Full Spectrum



Frequency Range: 18GHz -25GHz
Detector: Av mode and PK mode
Modulation type: 802.11g

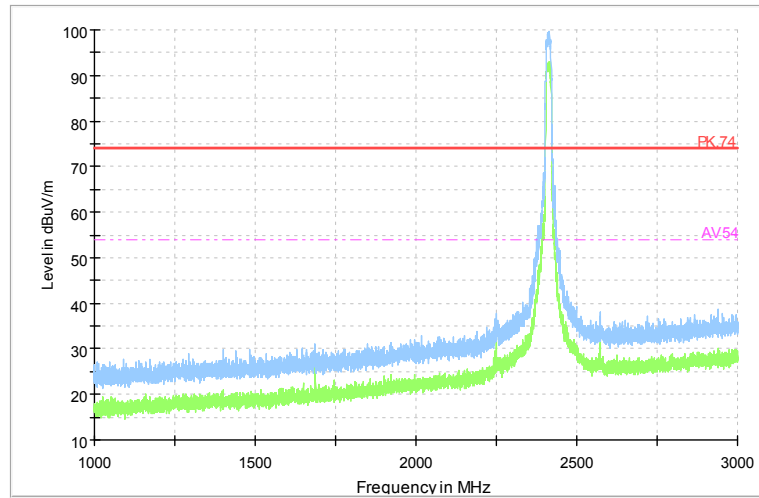
Full Spectrum



Comment

Frequency Range: 30MHz -1GHz
Detector: QP mode
Test Mode: 802.11n(HT20)

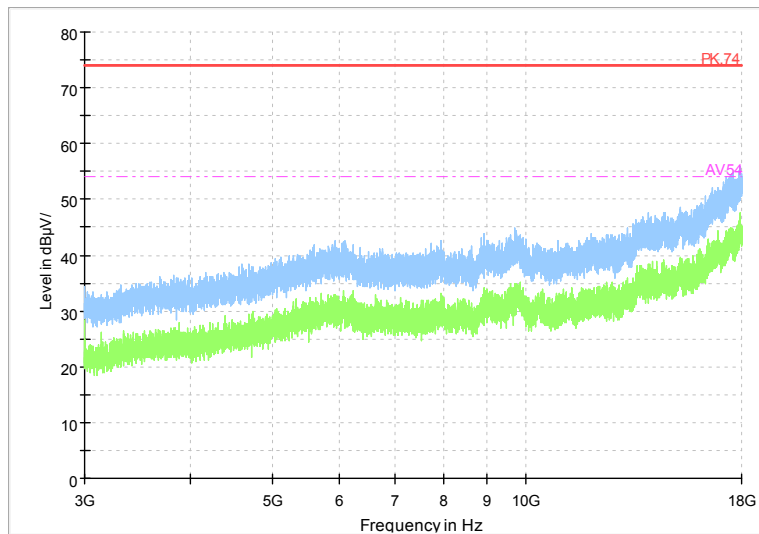
Full Spectrum



Comment

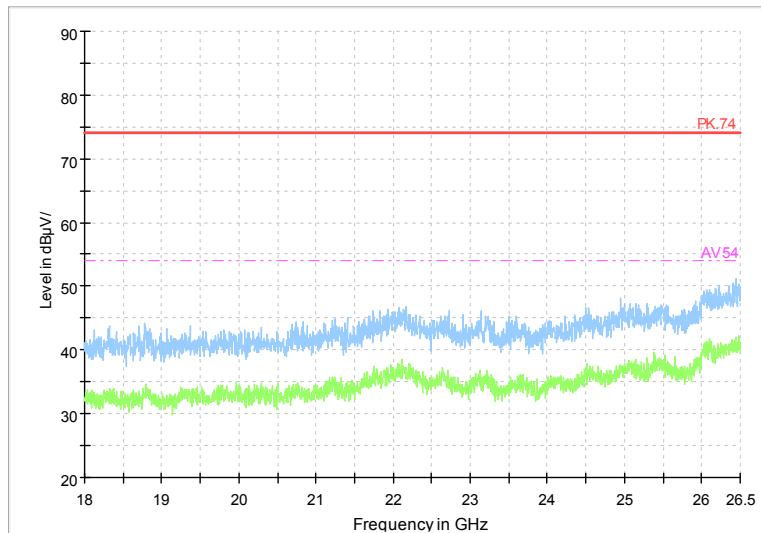
Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

Full Spectrum



Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

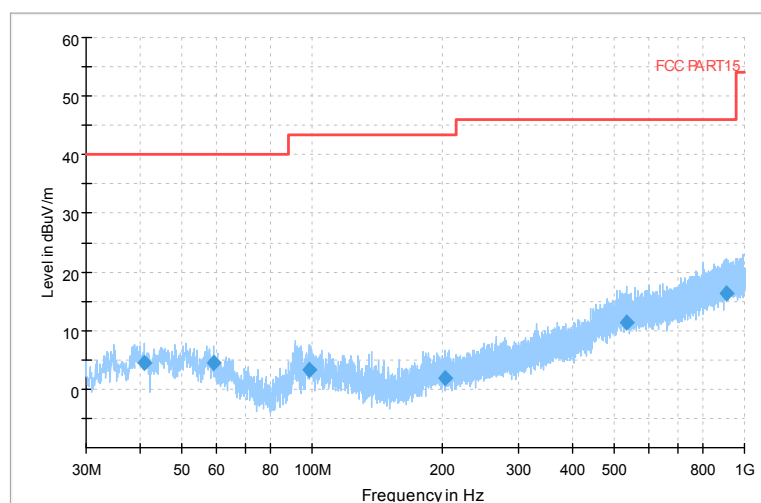
Full Spectrum



Frequency Range: 18GHz -25GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

Carrier frequency (MHz): 2437
Channel No.:6

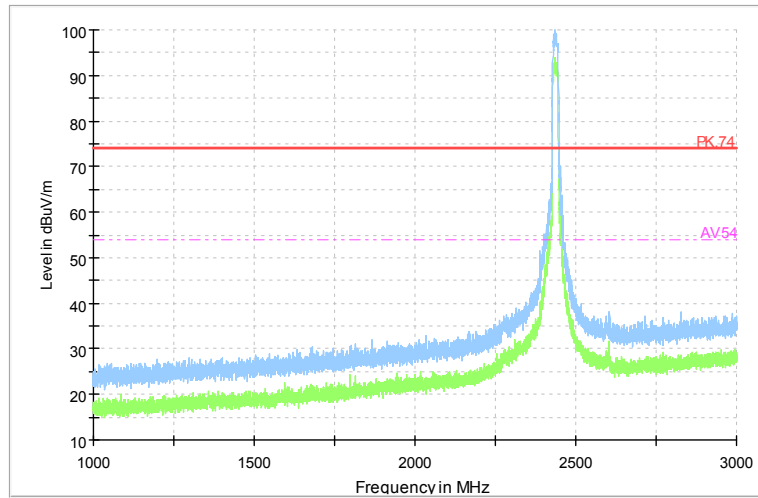
Full Spectrum



Comment

Frequency Range: 30MHz -1GHz
Detector: QP mode
Test Mode: 802.11b

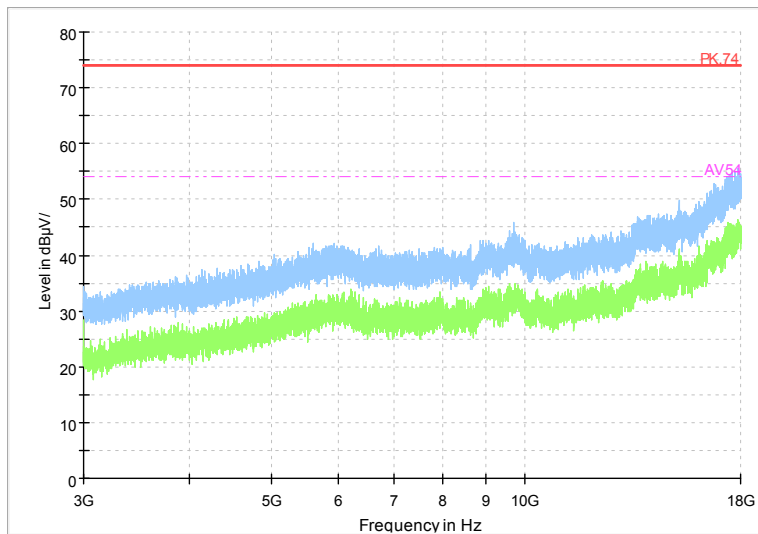
Full Spectrum



Comment

Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

Full Spectrum



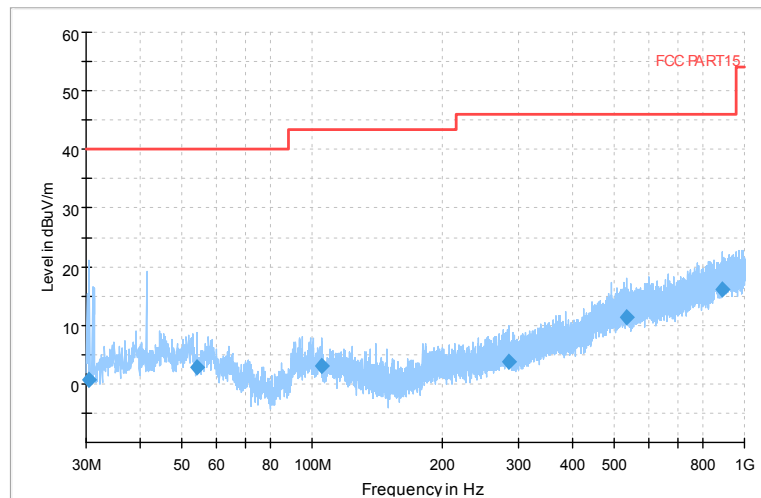
Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

Full Spectrum



Frequency Range: 18GHz -25GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

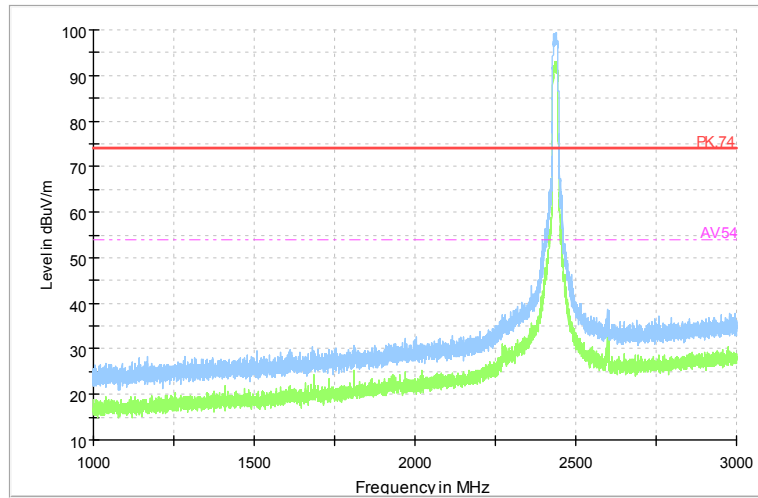
Full Spectrum



Comment

Frequency Range: 30MHz -1GHz
Detector: QP mode
Modulation type: 802.11g

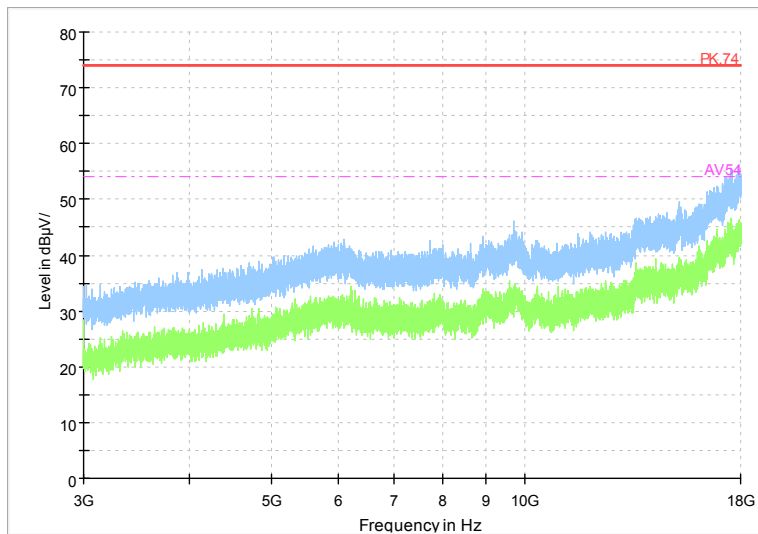
Full Spectrum



Comment

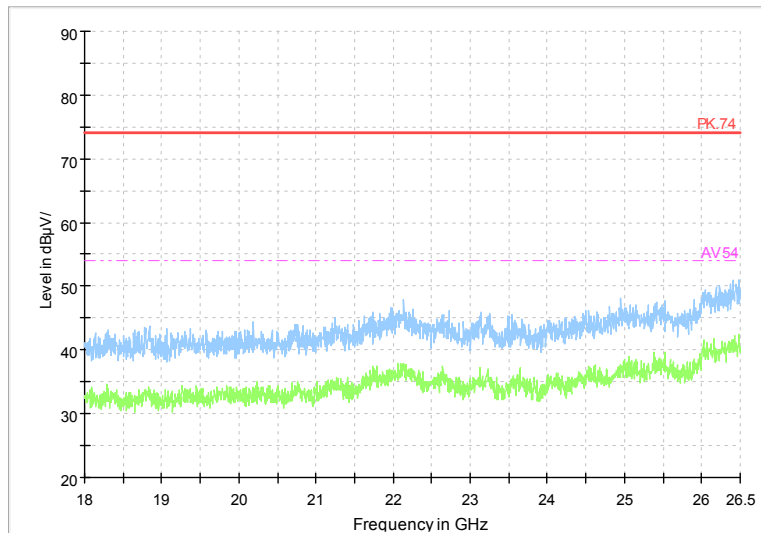
Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11g

Full Spectrum



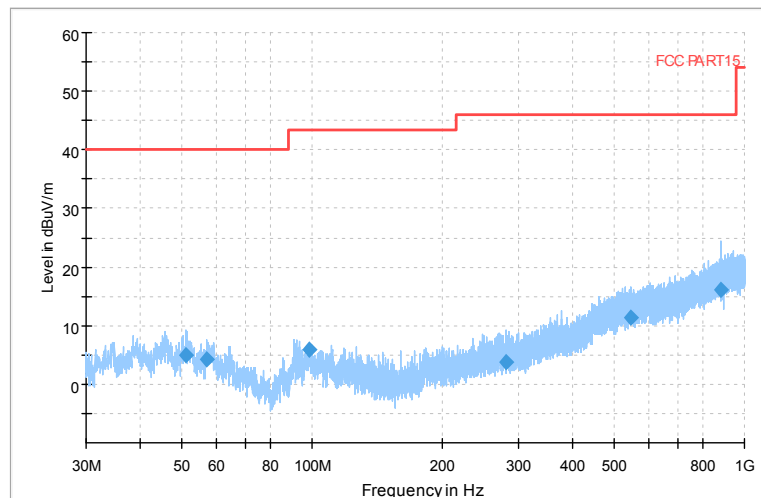
Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11g

Full Spectrum



Frequency Range: 18GHz -25GHz
Detector: Av mode and PK mode
Modulation type: 802.11g

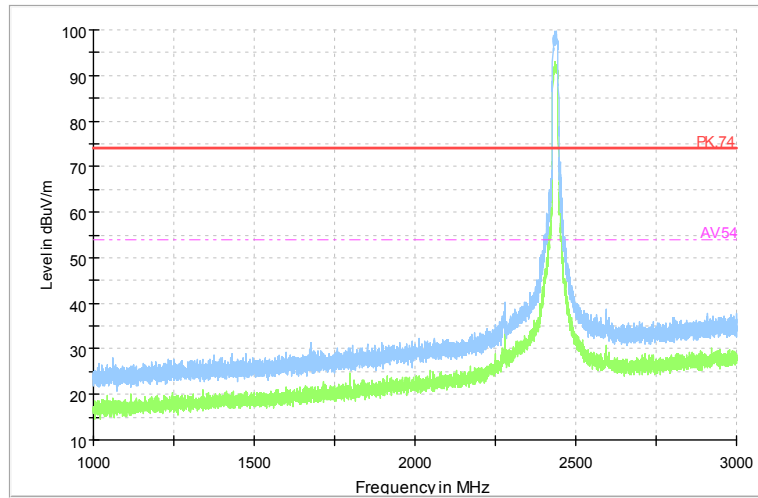
Full Spectrum



Comment

Frequency Range: 30MHz -1GHz
Detector: QP mode
Test Mode: 802.11n(HT20)

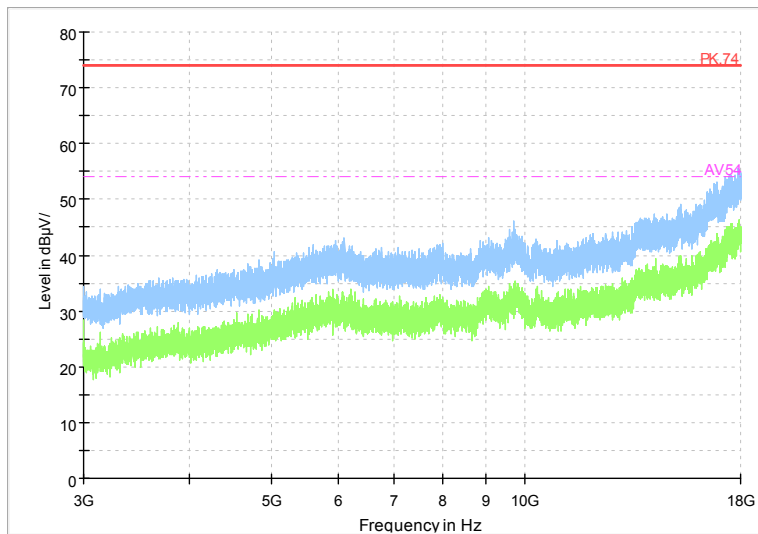
Full Spectrum



Comment

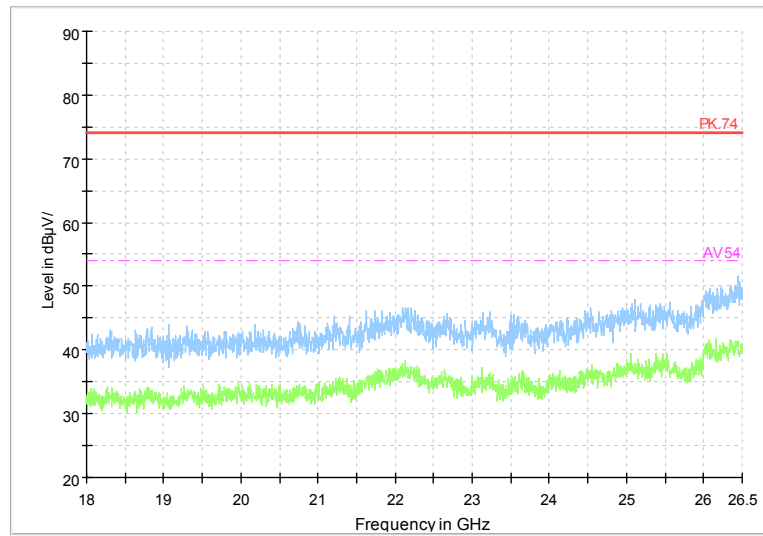
Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

Full Spectrum



Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

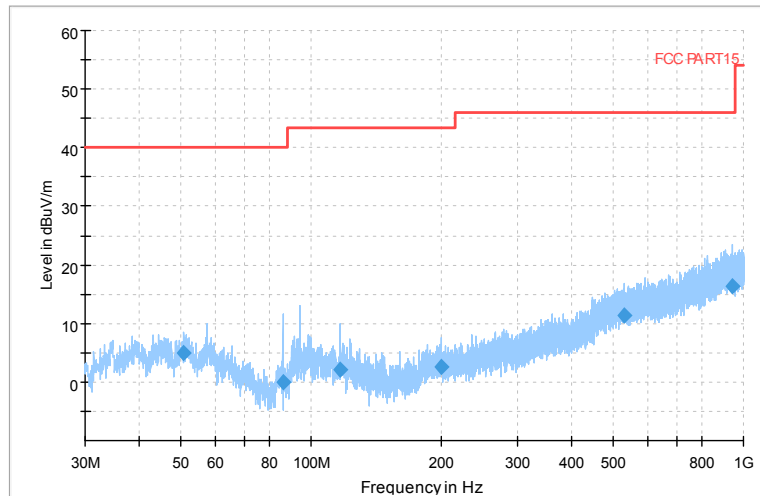
Full Spectrum



Frequency Range: 18GHz -25GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

Carrier frequency (MHz): 2462
Channel No.:11

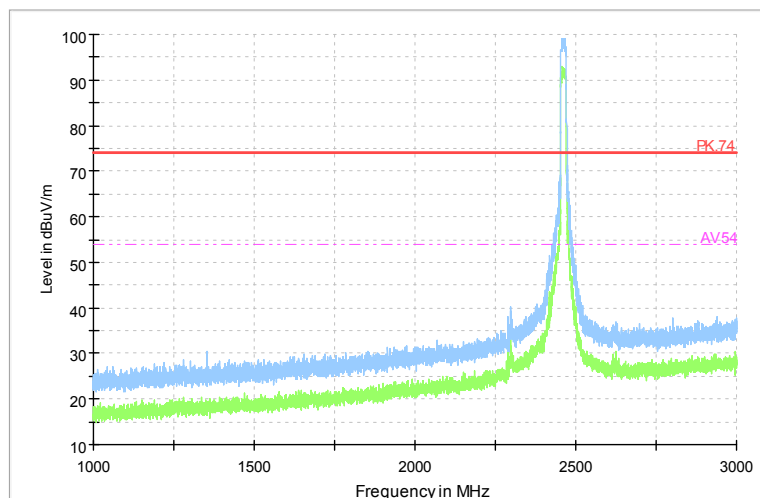
Full Spectrum



Comment

Frequency Range: 30MHz -1GHz
Detector: QP mode
Test Mode: 802.11b

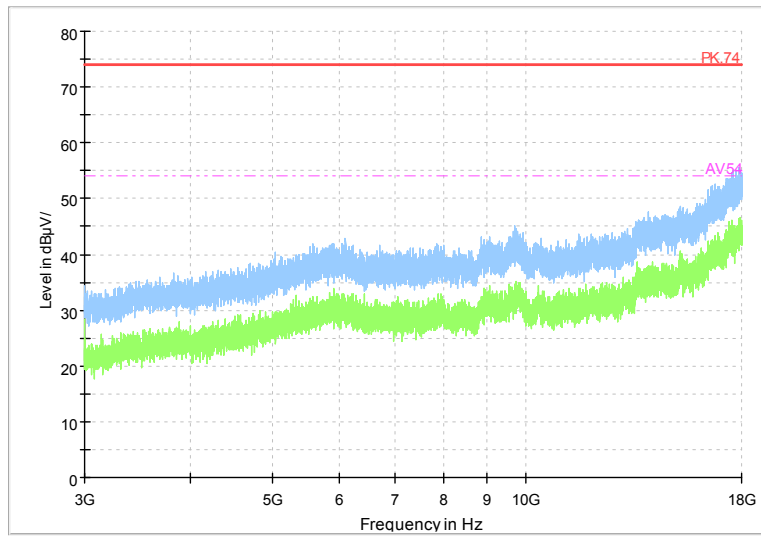
Full Spectrum



Comment

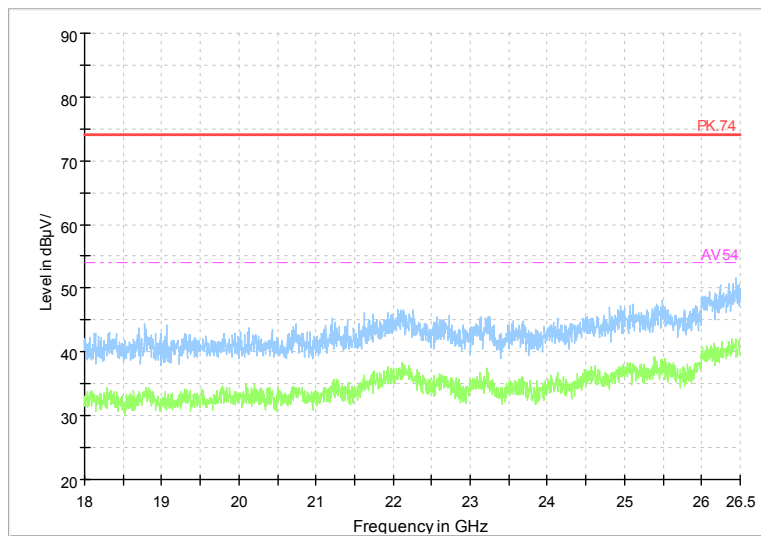
Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

Full Spectrum



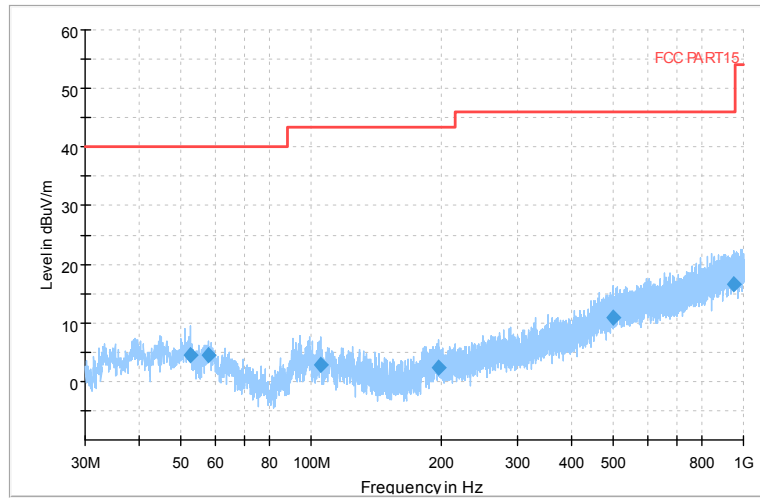
Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

Full Spectrum



Frequency Range: 18GHz -25GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

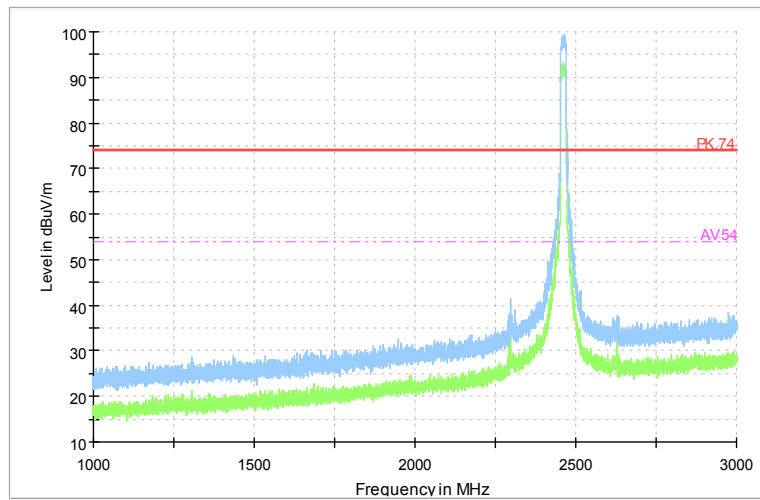
Full Spectrum



Comment

Frequency Range: 30MHz -1GHz
Detector: QP mode
Modulation type: 802.11g

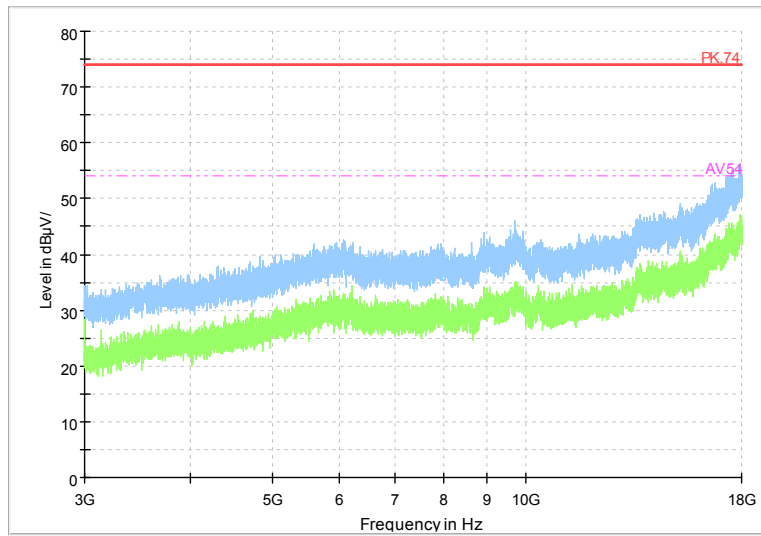
Full Spectrum



Comment

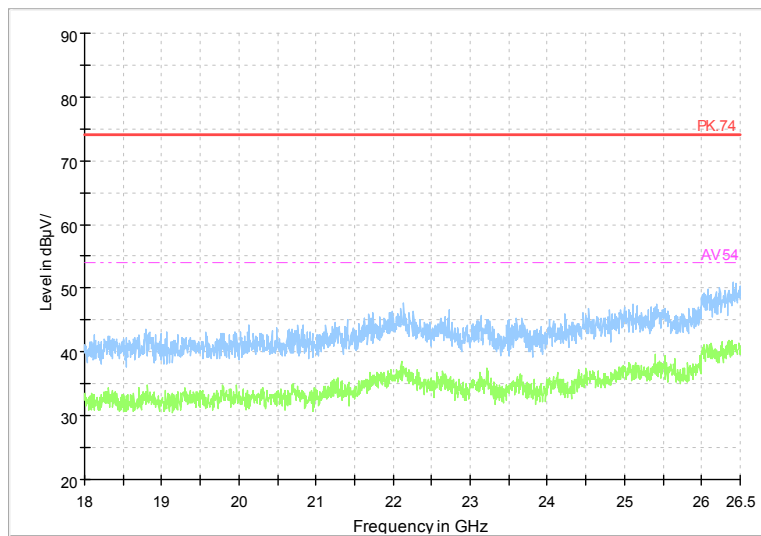
Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11g

Full Spectrum



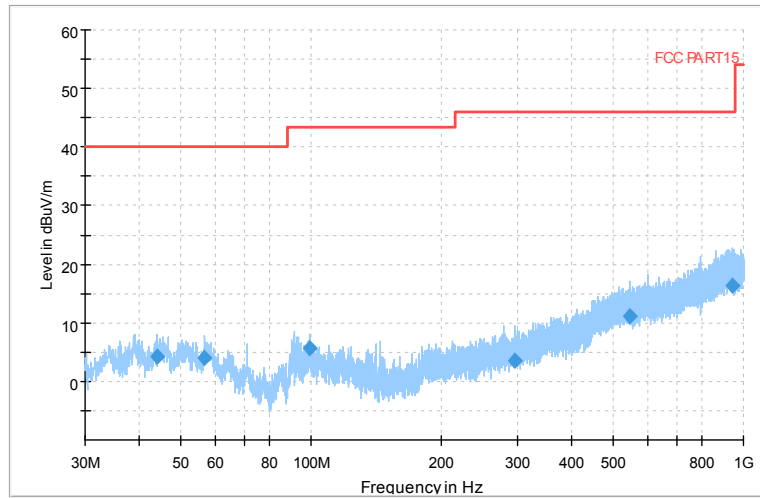
Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11g

Full Spectrum



Frequency Range: 18GHz -25GHz
Detector: Av mode and PK mode
Modulation type: 802.11g

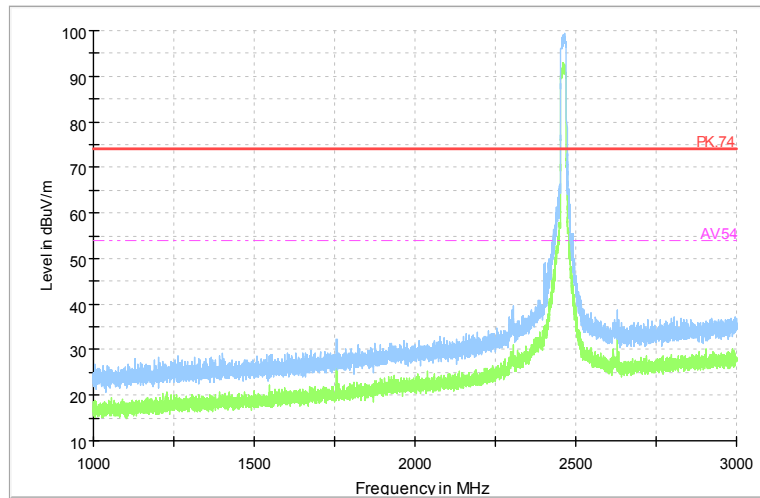
Full Spectrum



Comment

Frequency Range: 30MHz -1GHz
Detector: QP mode
Test Mode: 802.11n(HT20)

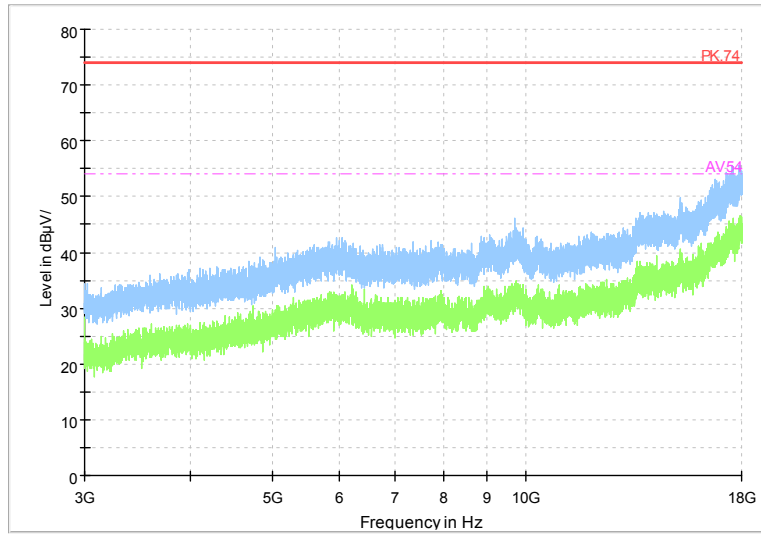
Full Spectrum



Comment

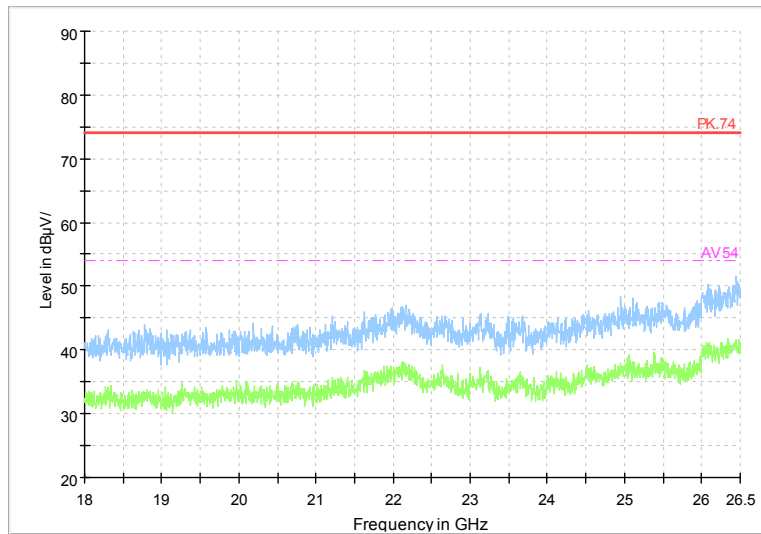
Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

Full Spectrum



Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

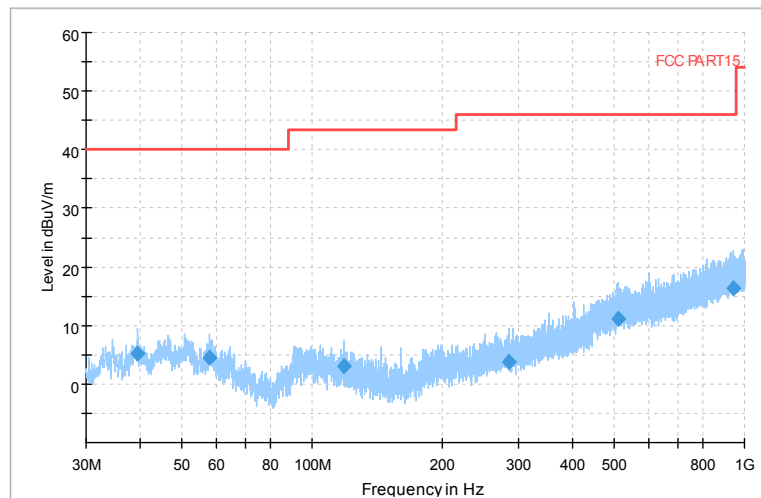
Full Spectrum



Frequency Range: 18GHz -25GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

Carrier frequency (MHz): 2422
Channel No.:3

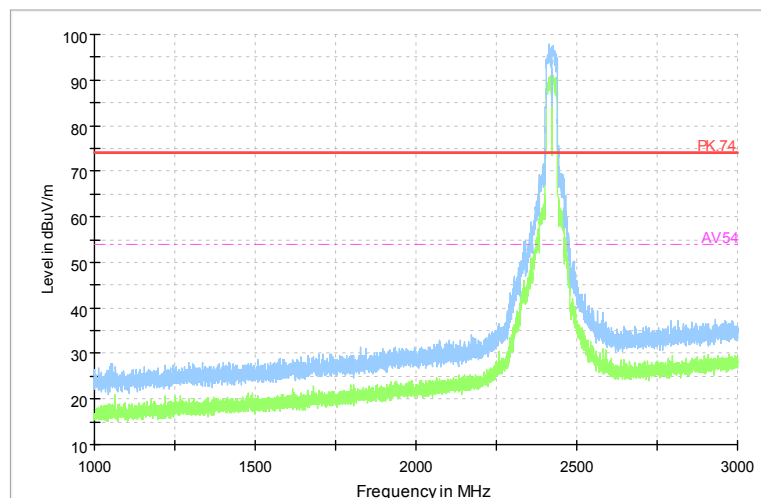
Full Spectrum



Comment

Frequency Range: 30MHz -1GHz
Detector: QP mode
Test Mode: 802.11n(HT40)

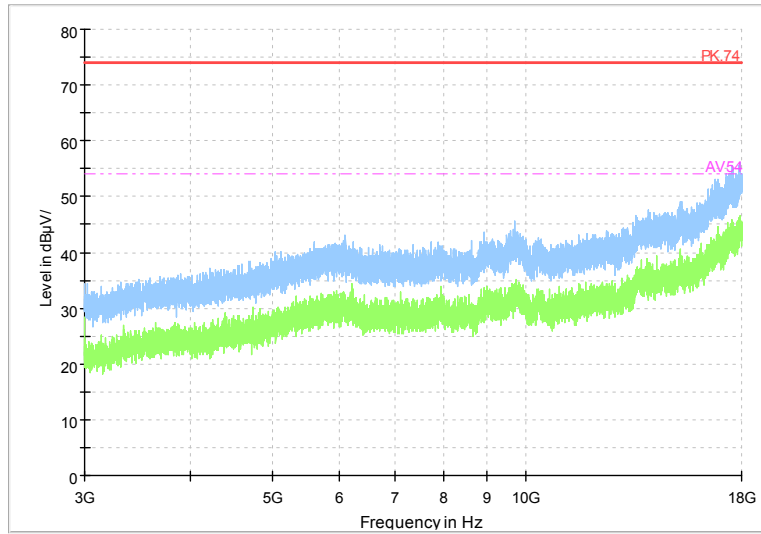
Full Spectrum



Comment

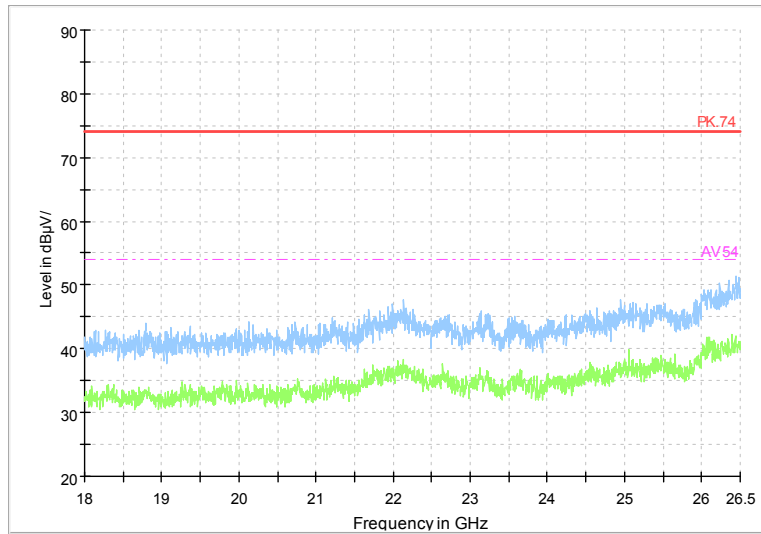
Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40)

Full Spectrum



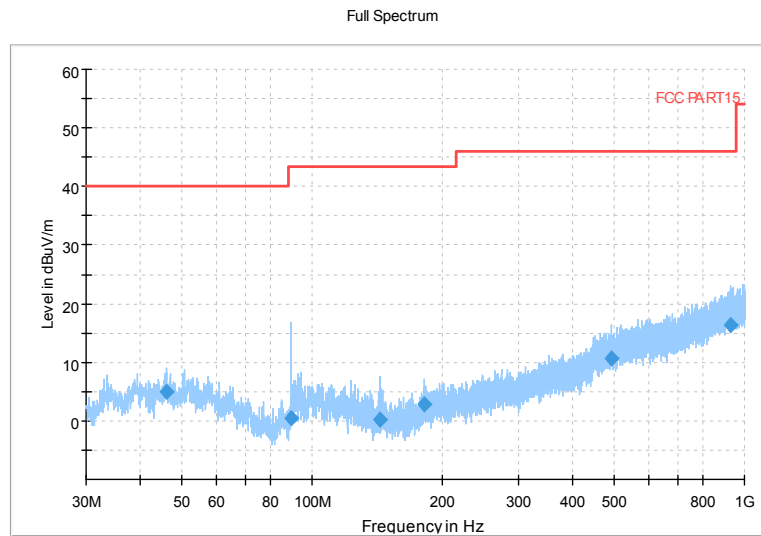
Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40)

Full Spectrum



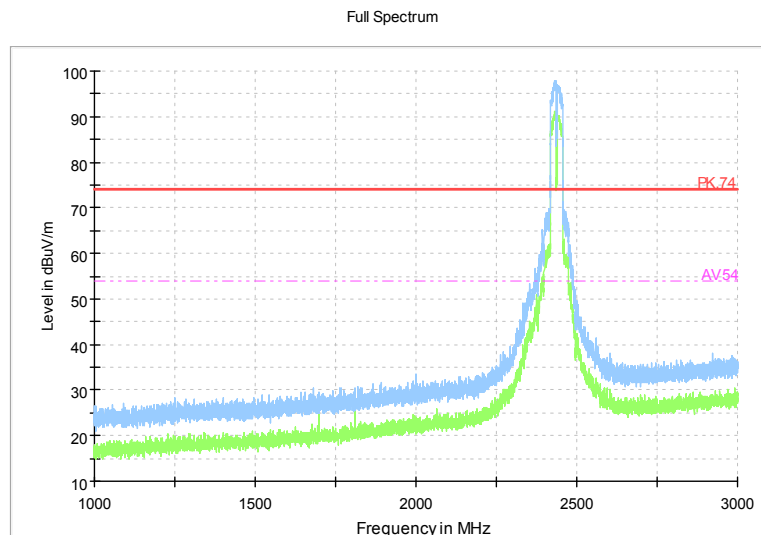
Frequency Range: 18GHz-26GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40)

Carrier frequency (MHz): 2437
Channel No.:6



Comment

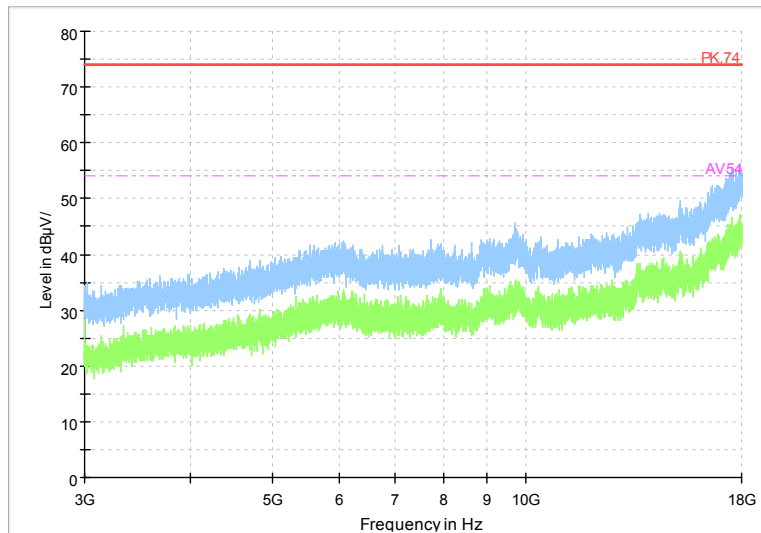
Frequency Range: 30MHz -1GHz
Detector: QP mode
Test Mode: 802.11n(HT40)



Comment

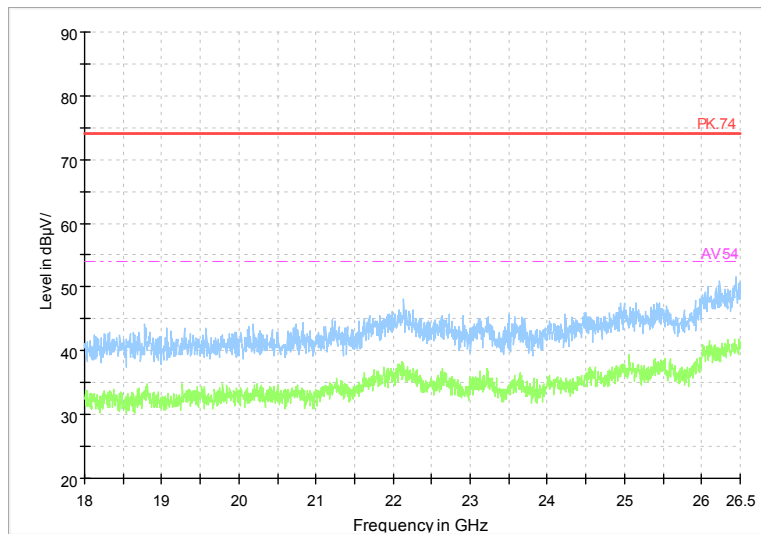
Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40)

Full Spectrum



Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40)

Full Spectrum



Frequency Range: 18GHz-26GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40)

Carrier frequency (MHz): 2452
Channel No.:9

The State Radio_monitoring_center Testing Center (SRTC)

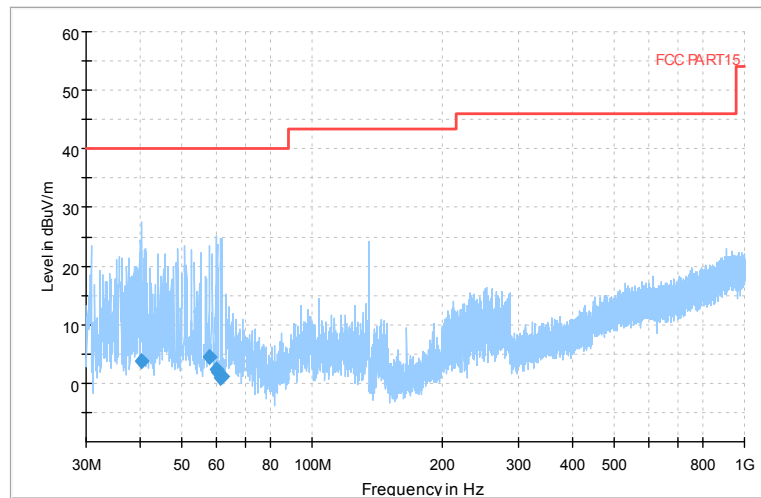
Tel: 86-10-57996183

Fax: 86-10-57996388

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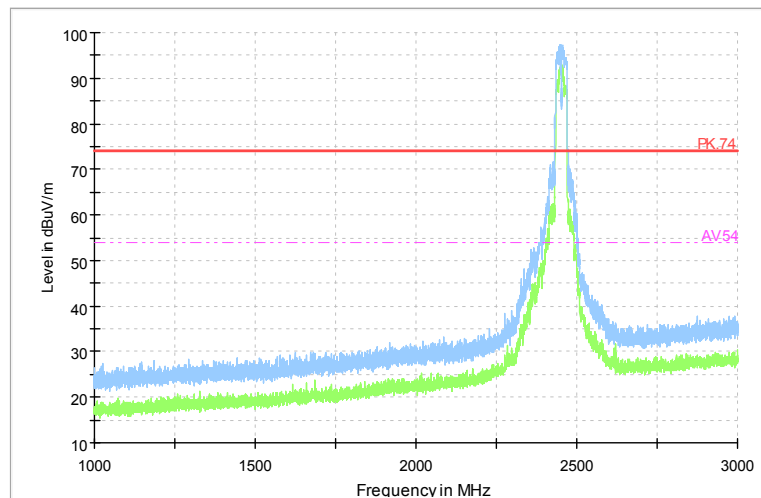
Full Spectrum



Comment

Frequency Range: 30MHz -1GHz
Detector: QP mode
Test Mode: 802.11n(HT40)

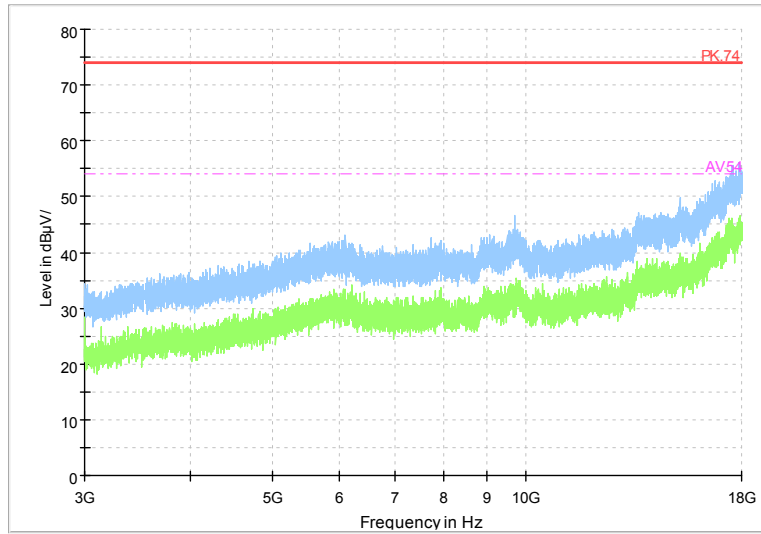
Full Spectrum



Comment

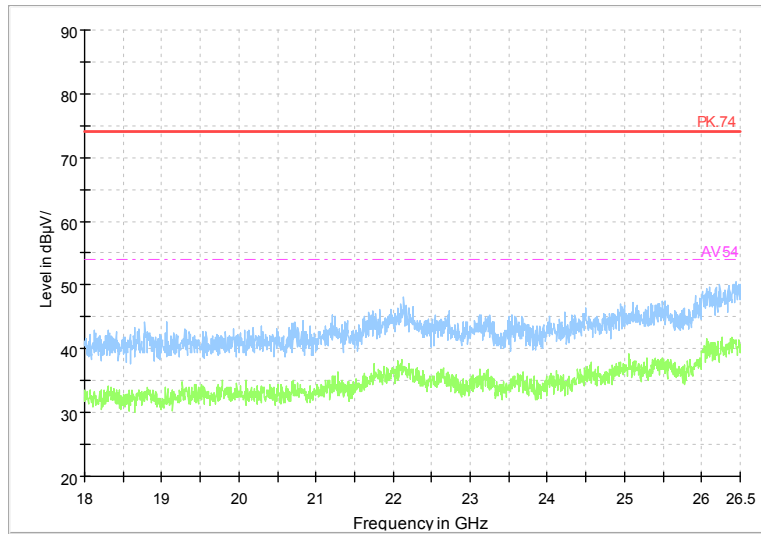
Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40)

Full Spectrum



Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40)

Full Spectrum



Frequency Range: 18GHz-26GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40)

AC Power line Conducted Emission

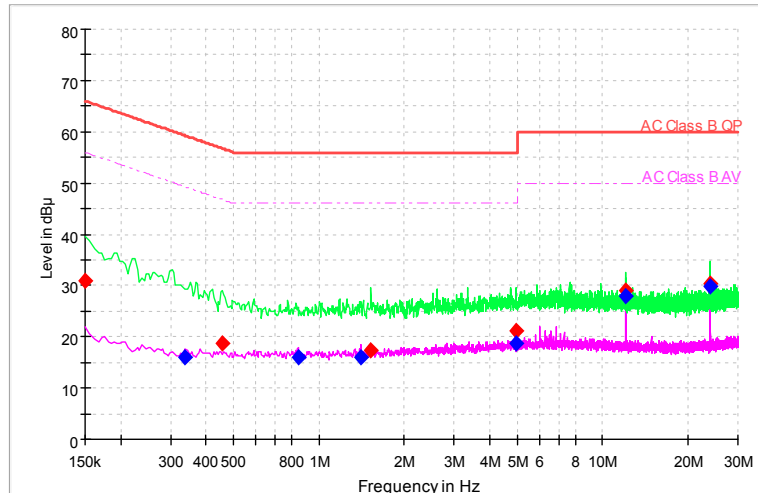
A "reference path loss" Corr.(dB) is established and the $L_{\text{cable}} + \text{ATT} + \text{VDF}$ is the attenuation of "reference path loss", and including the cable loss, the attenuation of the attenuator, the voltage division factor of AMN.

The measurement results are obtained as described below:

$$P_{\text{result}} = P_{\text{mea}} + \text{Corr. (dB)}$$

Sample calculation: $(30.99 \text{ dB}\mu\text{V}) = (1.19 \text{ dB}\mu\text{V}) + (29.8 \text{ dB})$, the corresponding frequency is 0.150000 MHz.

Full Spectrum



Comment

L+N Line

MEASUREMENT RESULT:

Frequency (MHz)	Quasi Peak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	Pmea Quasi Peak (dBμV)	Pmea Average (dBμV)
0.150000	30.99	---	66.00	35.01	L1	29.8	1.19	---
0.338757	---	16.11	49.23	33.13	L1	29.8	---	-13.69
0.457279	18.80	---	56.74	37.94	L1	29.8	-11	---
0.843574	---	15.99	46.00	30.01	L1	29.8	---	-13.81
1.409846	---	16.13	46.00	29.87	L1	29.8	---	-13.67
1.523978	17.22	---	56.00	38.78	L1	29.8	-12.58	---
4.952338	21.05	---	56.00	34.95	L1	29.9	-8.85	---
4.952338	---	18.74	46.00	27.26	L1	29.9	---	-11.16
12.041713	29.15	---	60.00	30.85	L1	30.0	-0.85	---
12.041713	---	27.94	50.00	22.07	N	30.0	---	-2.06
24.030000	---	29.94	50.00	20.06	N	30.0	---	-0.06
24.030000	30.26	---	60.00	29.74	L1	30.0	0.26	---

---End of the test report---