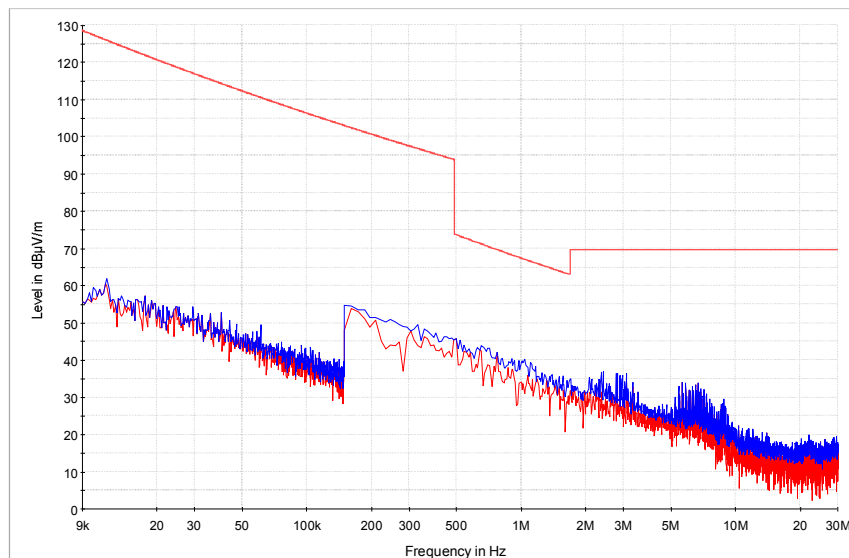


*802.11b Radiated Emissions 9kHz - 30MHz



There were no measurable emissions from 9 kHz to 30MHz

***802.11b is the Spurious Emissions worst case**

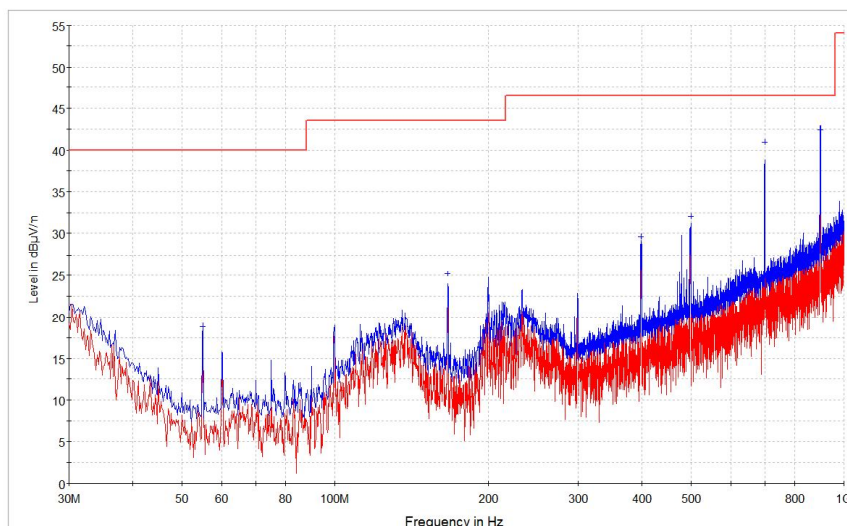
*802.11b is the Spurious Emissions worst case

Frequency MHz	QuasiPeak dBμV/m	Height cm	Polarization	Azimuth deg	Corr. dB	Limit dBμV/m	Margin dB
55	18.8	100	V	259	-13	40	-21.2
100	26.4	220	H	105	-8.9	43.5	-17.1
133	29.4	223	H	257	-4.8	43.5	-14.1
166	25.2	100	V	259	-5.7	43.5	-18.3
166	32.5	220	H	258	-5.7	43.5	-11
199.9	35	310	H	175	-4	43.5	-8.5
299.8	39.9	220	H	258	-1.7	46.0	-6.1
399.8	29.6	100	V	158	1.1	46.0	-16.4
399.8	27.3	200	H	160	1.1	46.0	-18.7
499.9	32.1	100	V	235	3.4	46.0	-13.9
699.8	40.9	100	V	273	8.5	46.0	-5.1
899.9	42.4	100	V	109	12.8	46.0	-3.6

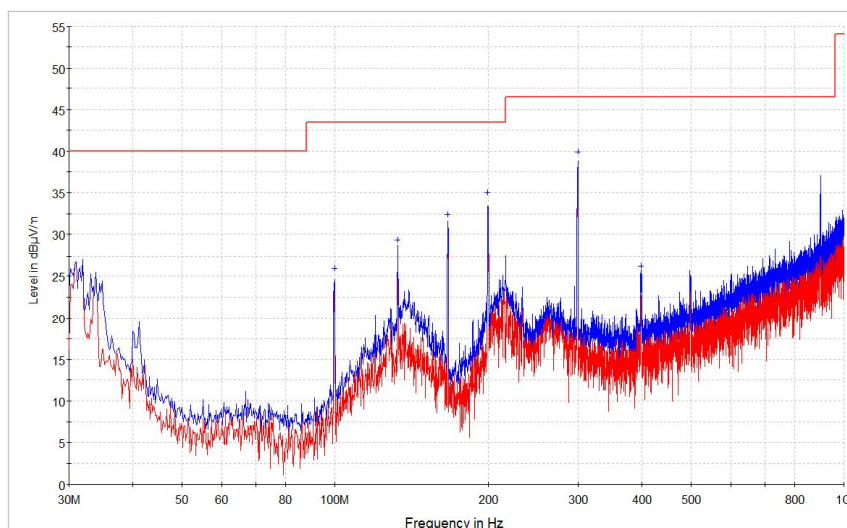
*802.11b Radiated Emissions 30MHz – 1GHz

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***802.11b Radiated Emissions 30MHz – 1GHz**



Vertical



Horizontal

***802.11b is the Spurious Emissions worst case**

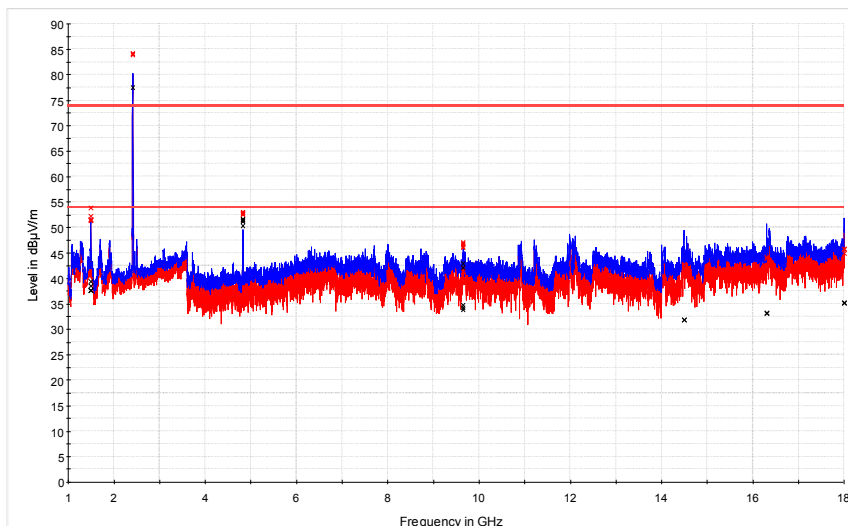
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*802.11b is the Spurious Emissions worst case							
Frequency	Average	Height	Polarity	Azimuth	Corr.	Average	Margin
MHz	dBμV/m	cm		deg	dB	dBμV/m Limit	db
1499.8	39.3	180	V	76	-6.2	54	-14.7
4824	51.6	180	V	358	2.6	54	-2.4
9648	42.9	180	V	2	9.1	54	-11.1
17998.3	35.2	180	V	357	16.2	54	-18.8
14484.5	32.1	180	V	19	12.7	54	-21.9
16303.5	33.4	180	V	91	14.3	54	-20.6
1499.8	32.6	250	H	3	-6.2	54	-21.4
4824	53.1	320	H	356	2.6	54	-0.9
9648	34.7	350	H	348	9.1	54	-19.3
11988.8	30.8	250	H	2	10.6	54	-23.2
14487.8	32.2	250	H	2	12.8	54	-21.8
16301.8	33.6	250	H	2	14.3	54	-20.4
17996.5	35.2	250	H	2	16.1	54	-18.8
*802.11b Radiated Emissions 1GHz - 18GHz							
Red is maximum emission for 802.11b							

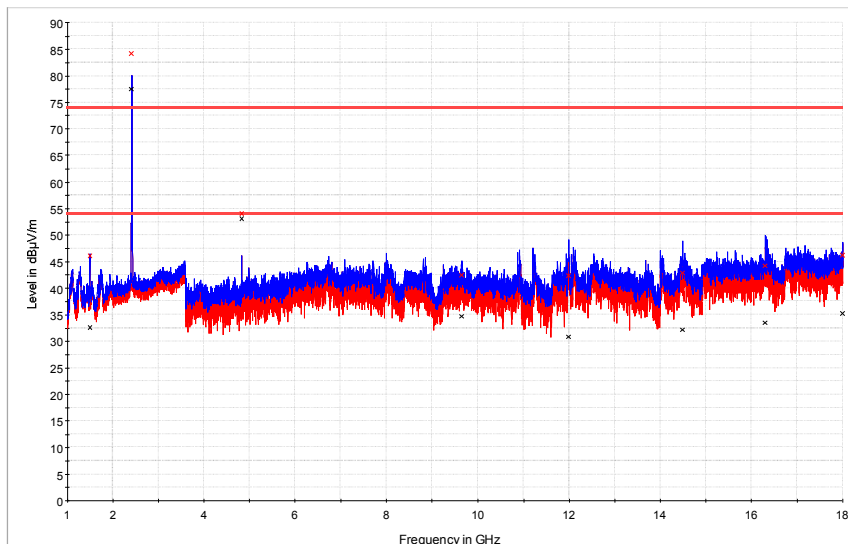
*802.11b is the Spurious Emissions worst case							
Frequency	Average	Height	Polarity	Azimuth	Corr.	Average	Margin
MHz	dBμV/m	cm		deg	dB	dBμV/m Limit	db
20006	36.1	300	H	130	20	54	-17.9
22934.2	36.8	300	H	288	20.9	54	-17.2
25082.2	36.5	300	H	19	20.5	54	-17.5
25323.6	34.6	300	H	91	20.1	54	-19.4
20000.9	35.8	200	V	3	20.1	54	-18.2
22933.4	36.2	210	V	356	20.9	54	-17.8
22989.5	36.5	200	V	348	20.5	54	-17.5
23604.9	35.1	230	V	2	20	54	-18.9
25086.4	36.1	220	V	220	20.4	54	-17.9
25321.9	33.9	200	V	180	20.2	54	-20.1
*802.11b Radiated Emissions 18GHz - 26.5GHz							

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***802.11b Radiated Emissions 1GHz - 18GHz**



Vertical



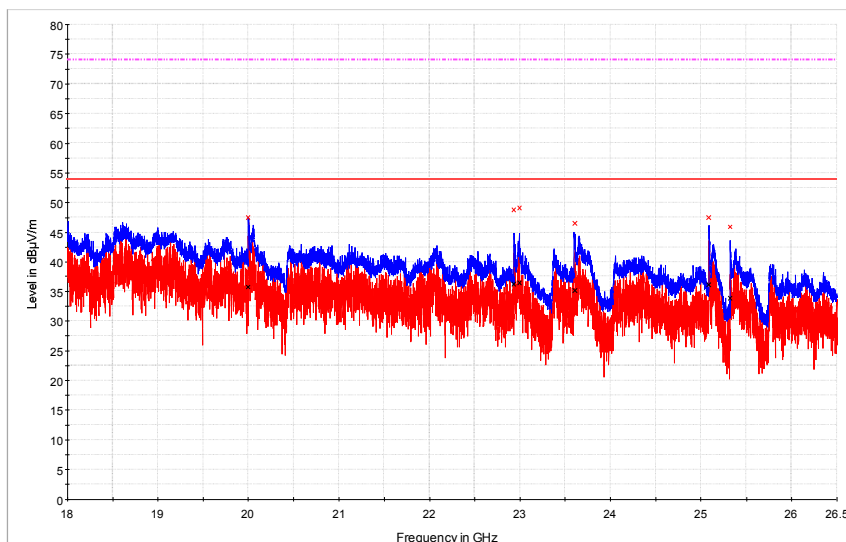
Horizontal

Red frequency markers represent Peak emissions

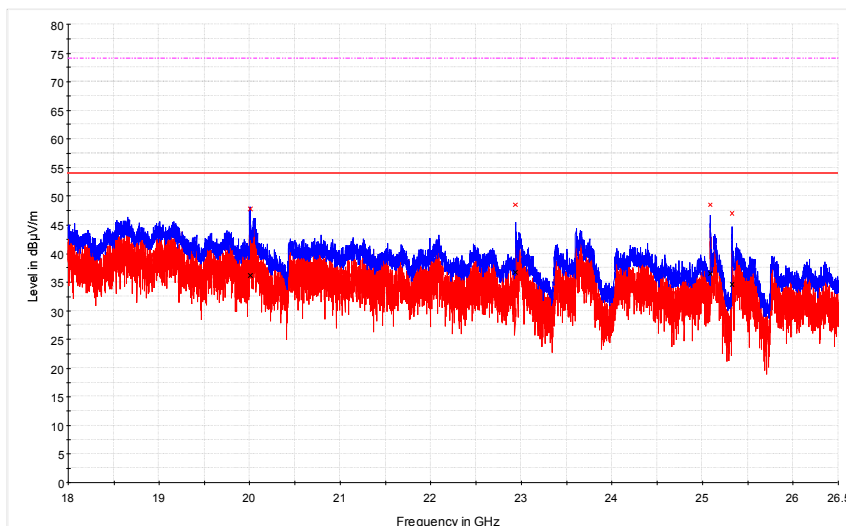
***802.11b is the Spurious Emissions worst case**

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***802.11b Radiated Emissions 18GHz – 26.5GHz**



Vertical



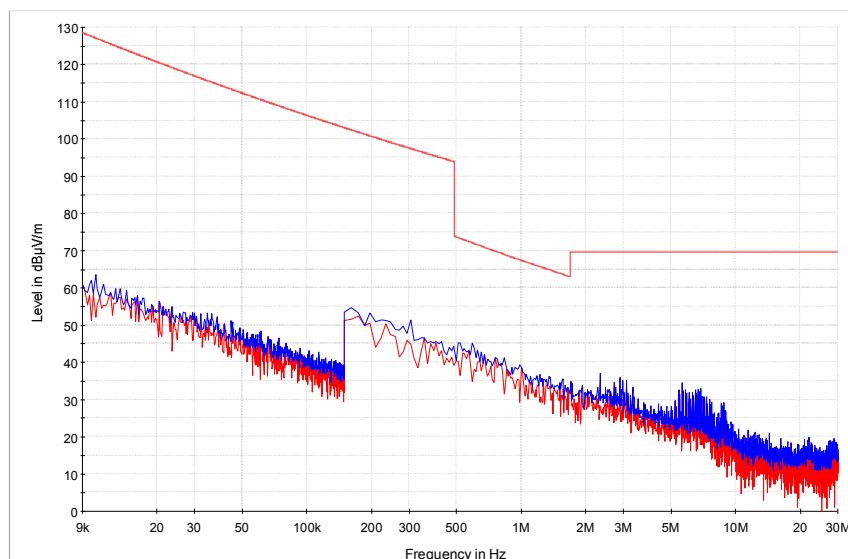
Horizontal

Red frequency markers represent Peak emissions

***802.11b is the Spurious Emissions worst case**

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***802.11g Radiated Emissions 9kHz - 30MHz**



There were no measurable emissions from 9 kHz to 30MHz

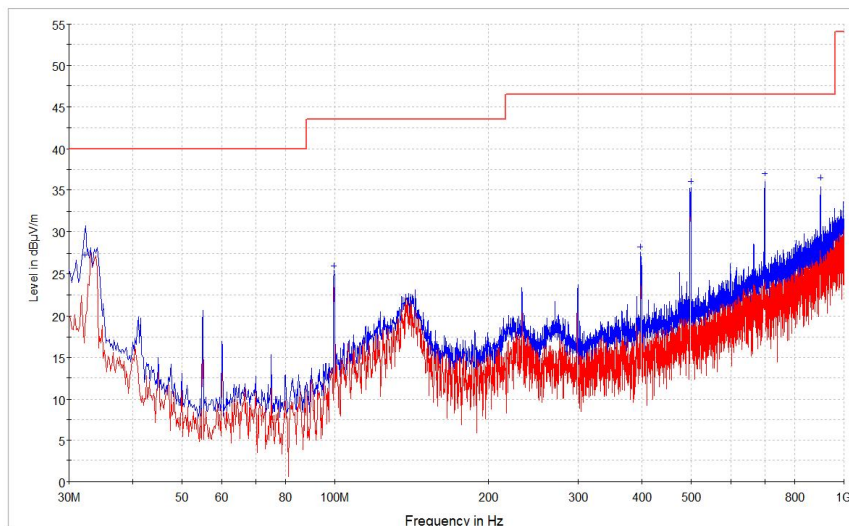
Frequency MHz	QuasiPeak dBµV/m	Height cm	Polarization	Azimuth deg	Corr. dB	Limit dBµV/m	Margin dB
32.8	27.3	100	V	35	-1.4	40	-12.7
33.1	25.5	300	H	28	-1.6	40	-14.5
99.6	30.2	200	H	-2	-9.1	43.5	-13.3
99.6	26.1	100	V	358	-9.1	43.5	-17.4
166	29.7	300	H	47	-5.7	43.5	-13.8
299.8	38.1	350	H	259	-1.7	46.0	-7.9
398.4	35.7	300	H	287	1	46.0	-10.3
398.2	28.6	100	V	299	1	46.0	-17.4
499.9	36.3	100	V	250	3.4	46.0	-9.7
699.8	37.1	100	V	83	8.5	46.0	-8.9
896.4	37.5	220	H	246	12.5	46.0	-9.5
896.4	36.4	220	V	280	12.5	46.0	-9.6

802.11g Radiated Emissions 30MHz – 1GHz

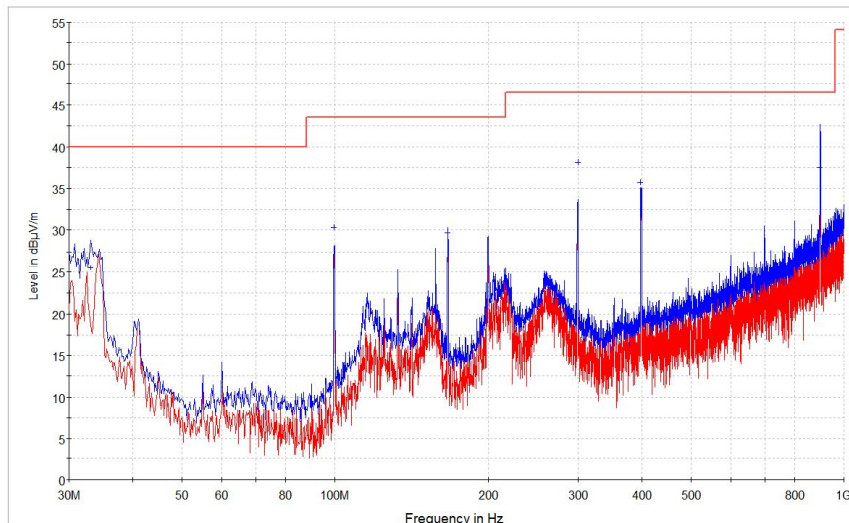
Red is maximum emission for 802.11g

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802.11g Radiated Emissions 30MHz – 1GHz



Vertical



Horizontal

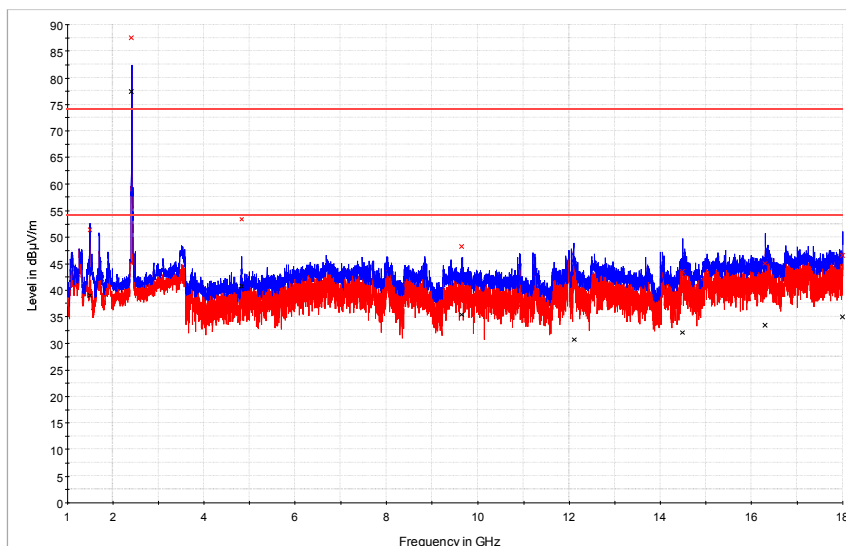
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Frequency MHz	CAverage dBμV/m	Height cm	Polarization	Azimuth deg	Corr. dB	Average dBμV/m Limit	Margin db
1496.5	39.0	220	V	346.0	-6.2	54	-15.0
4824.0	40.7	270	V	3.0	2.6	54	-13.3
9648.0	35.5	220	V	2.0	9.1	54	-18.5
12109.5	30.8	220	V	161.0	10.4	54	-23.2
14486.0	32.1	220	V	156.0	12.8	54	-21.9
16303.5	33.4	220	V	207.0	14.3	54	-20.6
17996.5	35.0	220	V	156.0	16.1	54	-19.0
1498.0	32.4	300	H	355.0	-6.2	54	-21.6
4824.0	37.2	320	H	353.0	2.6	54	-16.8
9648.0	30.2	280	H	2.0	9.1	54	-23.8
12111.3	30.7	340	H	276.0	10.4	54	-23.3
13677.0	30.6	310	H	243.0	10.7	54	-23.4
14486.0	32.2	320	H	184.0	12.8	54	-21.8
17996.5	35.3	310	H	149.0	16.1	54	-18.7
802.11g Radiated Emissions 1GHz - 18GHz							

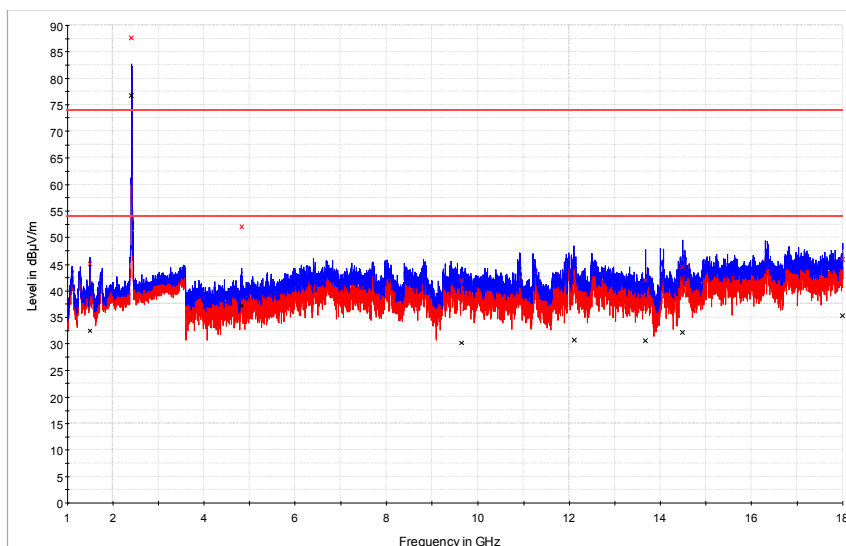
Frequency MHz	CAverage dBμV/m	Height cm	Polarization	Azimuth deg	Corr. dB	Average dBμV/m Limit	Margin db
22933.4	35.5	220	V	3.0	20.9	54.0	-18.5
23604.9	34.5	250	V	255.0	20.0	54.0	-19.5
25082.2	36.3	210	V	161.0	20.5	54.0	-17.7
25321.0	33.6	170	V	156.0	20.2	54.0	-20.4
18045.9	34.9	320	H	207.0	19.2	54.0	-19.1
18649.4	35.4	340	H	156.0	19.2	54.0	-18.6
22935.1	36.1	360	H	276.0	20.9	54.0	-17.9
23604.0	35.1	300	H	243.0	20.0	54.0	-18.9
25083.9	36.1	290	H	220.0	20.4	54.0	-17.9
25321.0	33.9	270	H	180.0	20.2	54.0	-20.1
802.11g Radiated Emissions 18GHz - 26.5GHz							

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802.11g Radiated Emissions 1GHz - 18GHz



Vertical

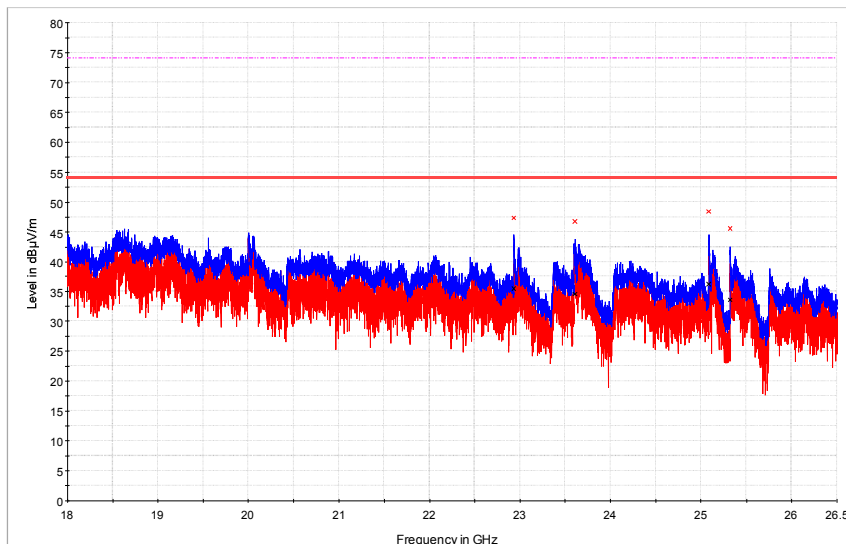


Horizontal

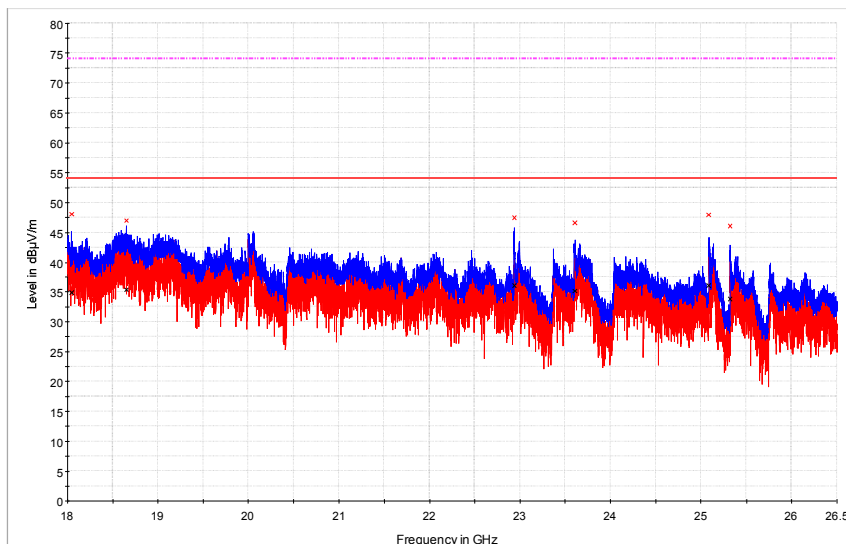
Red frequency markers represent Peak emissions

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802.11g Radiated Emissions 18GHz – 26.5GHz



Vertical

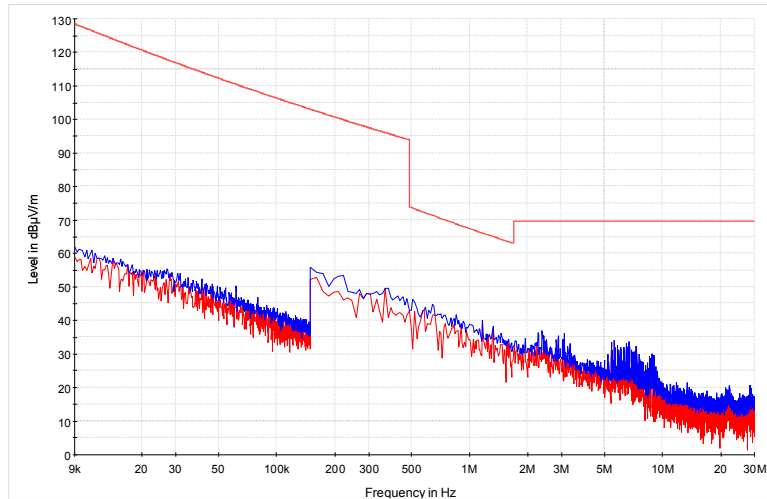


Horizontal

Red frequency markers represent Peak emissions

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***802.11n HT20 Radiated Emissions 9kHz - 30MHz**



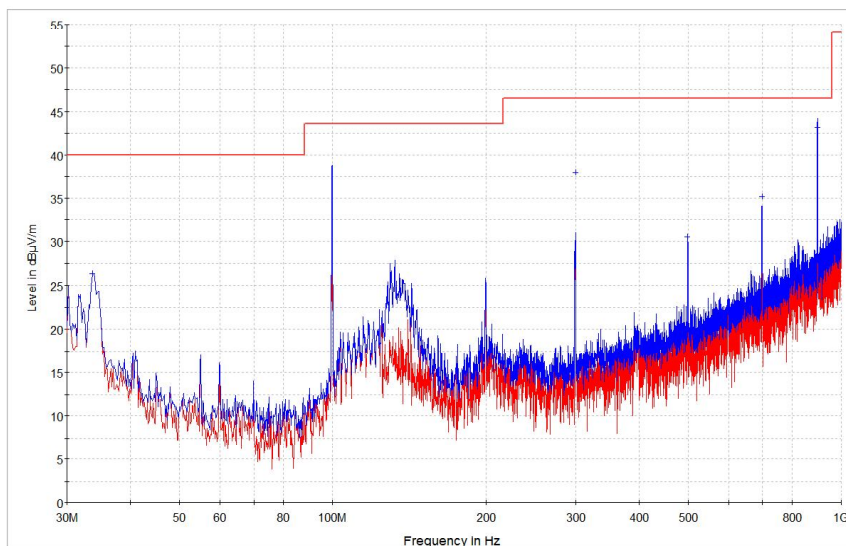
There were no measurable emissions from 9 kHz to 30MHz

Frequency MHz	QuasiPeak dBµV/m	Height cm	Polarization	Azimuth deg	Corr. dB	Limit dBµV/m	Margin dB
33	23.7	100	H	358	-1.5	40	-16.3
33.7	26.3	100	V	109	-2	40	-13.7
99.9	38.4	100	V	101	-9	43.5	-5.1
99.9	26.4	200	H	101	-9	43.5	-17.1
199.9	22.5	310	H	175	-4	43.5	-21
299.8	37.9	150	V	2	-1.7	46.0	-8.1
299.8	29.3	220	H	110	-1.7	46.0	-16.7
399.8	36.9	200	H	160	1.1	46.0	-9.1
498.2	30.5	100	V	106	3.5	46.0	-15.5
699.8	35.2	100	V	83	8.5	46.0	-10.8
899.8	43.2	100	V	130	12.7	46.0	-2.8
899.8	35.4	100	H	200	12.7	46.0	-10.6

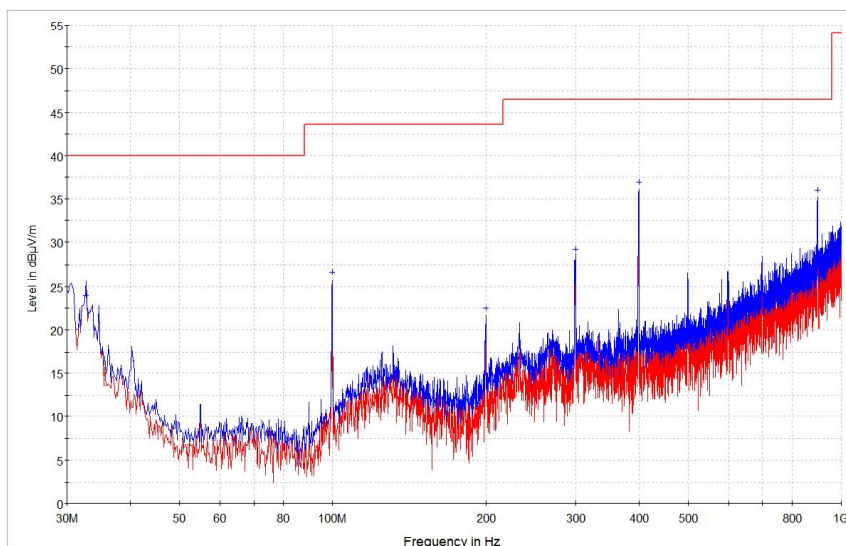
802.11n HT20 Radiated Emissions 30MHz – 1GHz
Red is maximum emission for 802.11n HT20

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802.11n HT20 Radiated Emissions 30MHz – 1GHz



Vertical



Horizontal

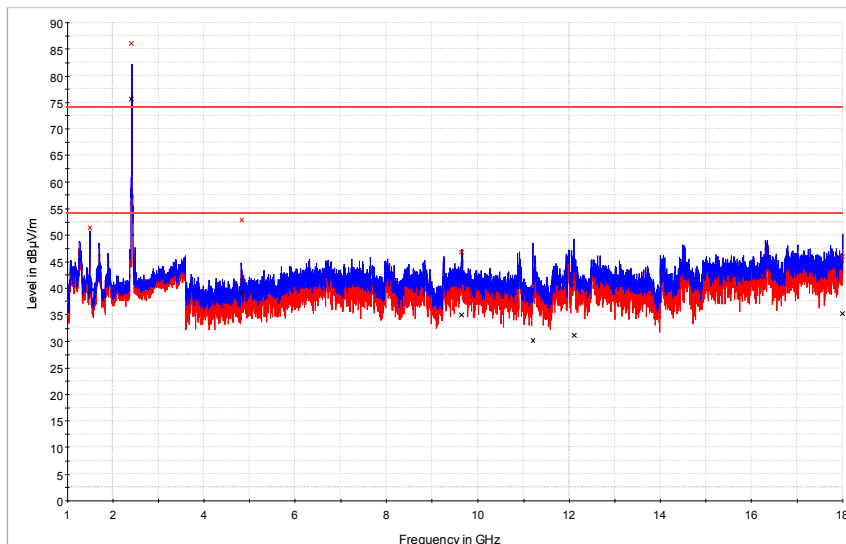
The test results contained in this report refer exclusively to the product(s) presented for testing. No liability may be assumed for models or products not referred to herein. This test report may not be published or duplicated in part without permission of the testing body. This test report by itself does not constitute authorization for the use of any TÜV Rheinland test mark. The report must not be used by the client to claim product certification, approval, or endorsement by A2LA or any agency of the Federal Government.

Frequency MHz	CAverage dBμV/m	Height cm	Polarization	Azimuth deg	Corr. dB	Limit dBμV/m	Margin dB
1498.0	39.3	220.0	V	351.0	-6.2	54	-14.7
4824.0	39.2	230.0	V	-1.0	2.6	54	-14.8
9648.0	35.0	254.0	V	-1.0	9.1	54	-19.0
11201.8	30.1	190.0	V	2.0	10.2	54	-23.9
12109.5	31.1	180.0	V	2.0	10.4	54	-22.9
17998.3	35.2	310.0	H	2.0	16.2	54	-18.8
1499.8	31.9	300.0	H	3.0	-6.2	54	-22.1
4824.0	40.0	320.0	H	2.0	2.6	54	-14.0
9648.0	30.0	340.0	H	2.0	9.1	54	-24.0
14486.0	32.0	327.0	H	321.0	12.8	54	-22.0
16303.5	33.3	305.0	H	290.0	14.3	54	-20.7
18000.0	35.2	300.0	H	269.0	16.1	54	-18.8
802.11n HT20 Radiated Emissions 1GHz - 18GHz							

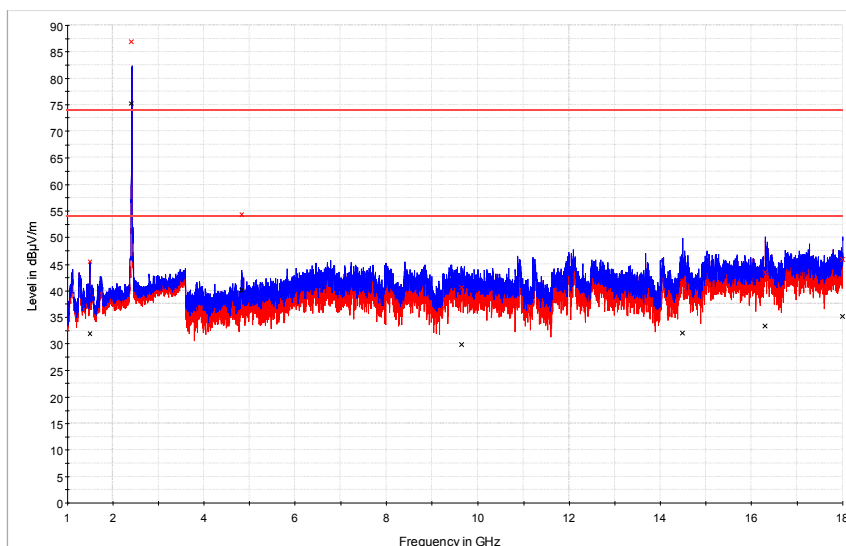
Frequency MHz	CAverage dBμV/m	Height cm	Polarization	Azimuth deg	Corr. dB	Limit dBμV/m	Margin dB
20006.0	35.8	150.0	V	356	20.0	54.0	-18.2
22934.2	36.2	150.0	V	345	20.9	54.0	-17.8
23604.0	36.0	160.0	V	326	20.0	54.0	-18.0
25084.8	36.0	170.0	V	203	20.4	54.0	-18.0
25321.0	33.5	220.0	V	351	20.2	54.0	-20.5
18967.3	36.3	300.0	H	-1.0	20.5	54.0	-17.7
20001.8	35.8	300.0	H	-1.0	20.1	54.0	-18.2
22933.4	35.8	250.0	H	355	20.9	54.0	-18.2
23656.8	35.6	260.0	H	270	20.4	54.0	-18.4
25083.0	36.2	310.0	H	348	20.4	54.0	-17.8
25321.0	34.4	320.0	H	308	20.2	54.0	-19.6
802.11n HT20 Radiated Emissions 18GHz - 26.5GHz							

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802.11n HT20 Radiated Emissions 1GHz - 18GHz



Vertical



Horizontal

Red frequency markers represent Peak emissions

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