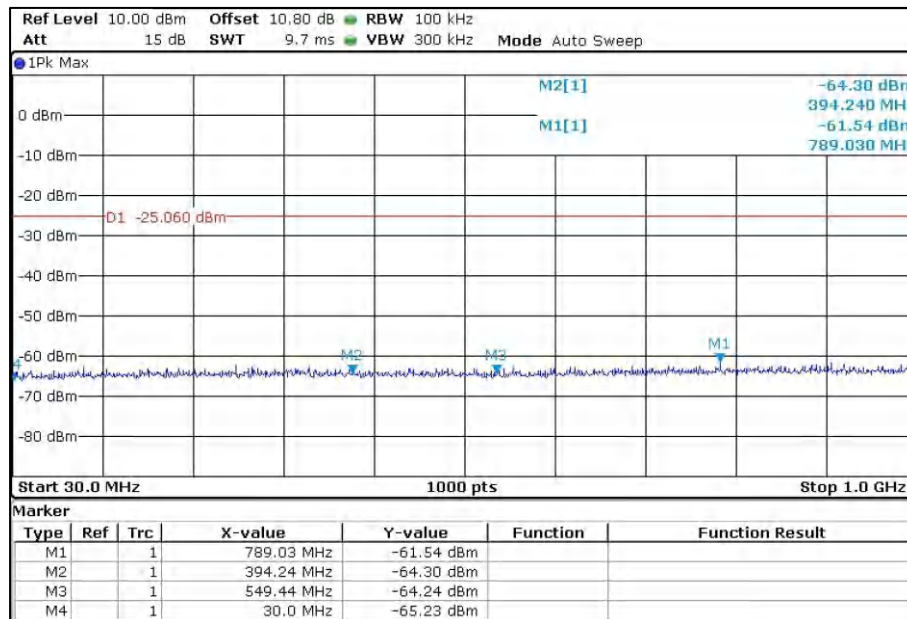


Prüfbericht - Nr.:
Test Report No.:

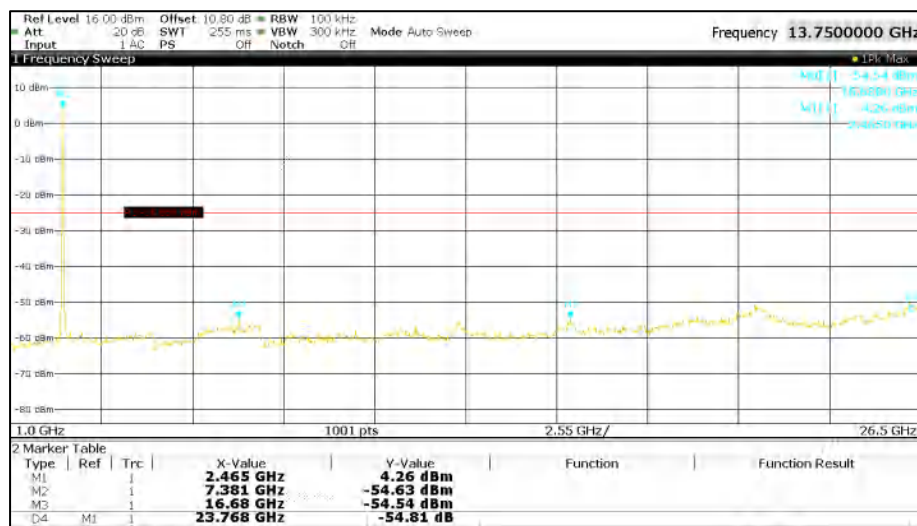
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Channel Frequency 2462MHz

Frequency Range 30MHz –1GHz



Channel Frequency 2462MHz

Frequency Range 1GHz – 26.5GHz

Prüfbericht - Nr.:

Test Report No.:

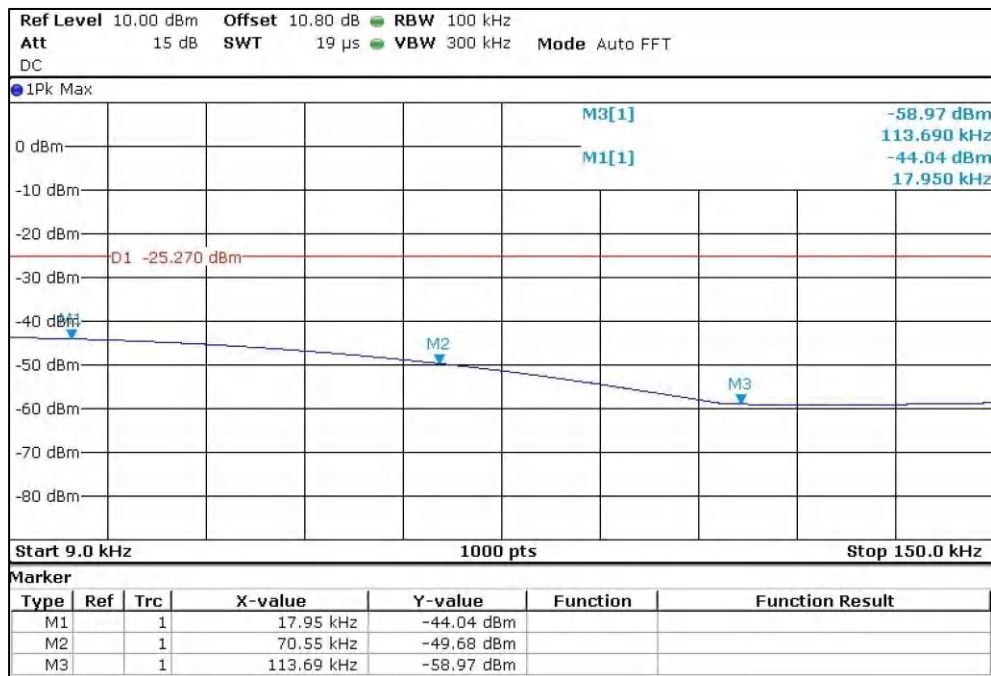
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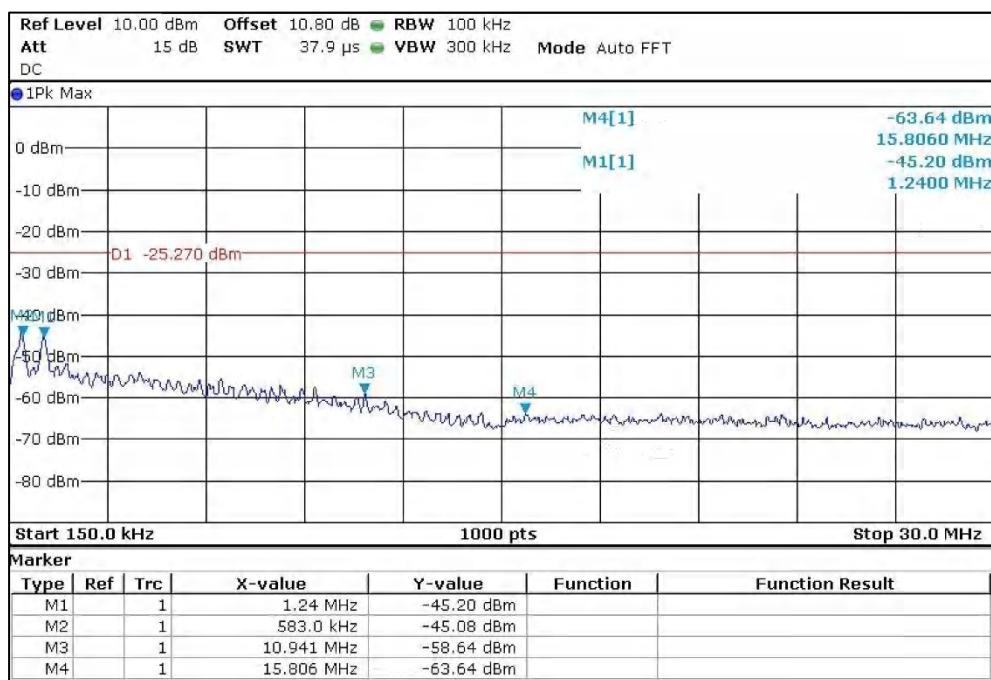
Modulation: 802.11n_20MHz

Data Rate MCS7



Channel Frequency 2412MHz

Frequency Range 9kHz –150kHz



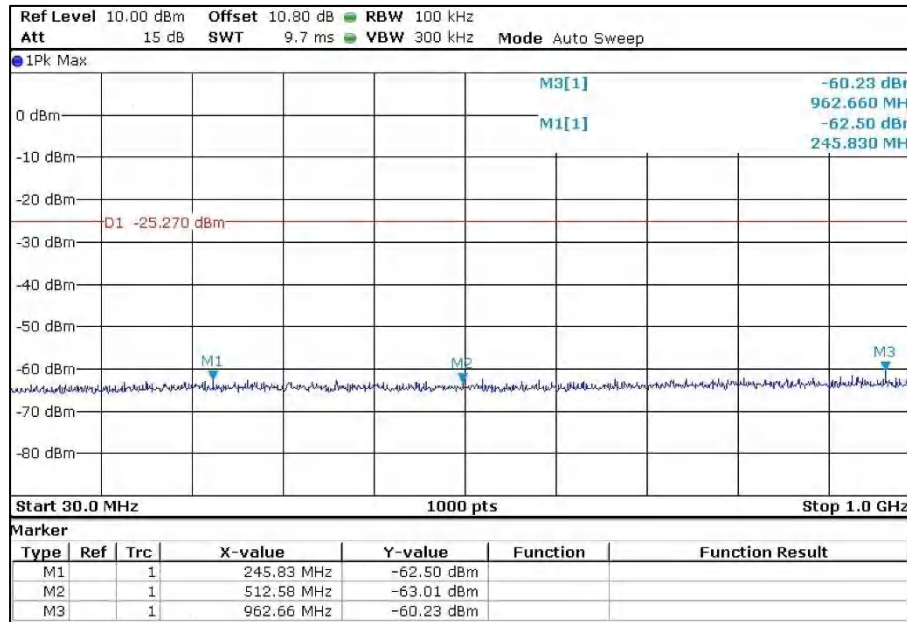
Channel Frequency 2412MHz

Frequency Range 150kHz –30MHz

Prüfbericht - Nr.:
Test Report No.:

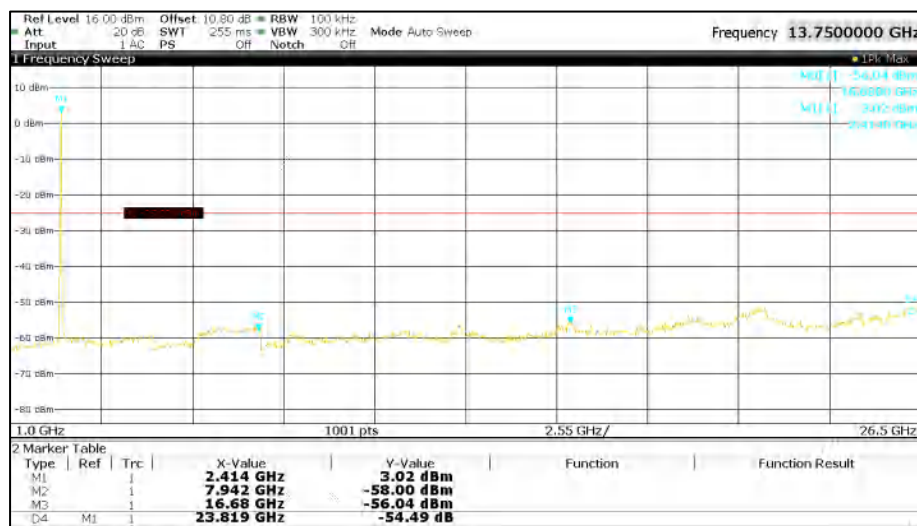
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Channel Frequency 2412MHz

Frequency Range 30MHz –1GHz



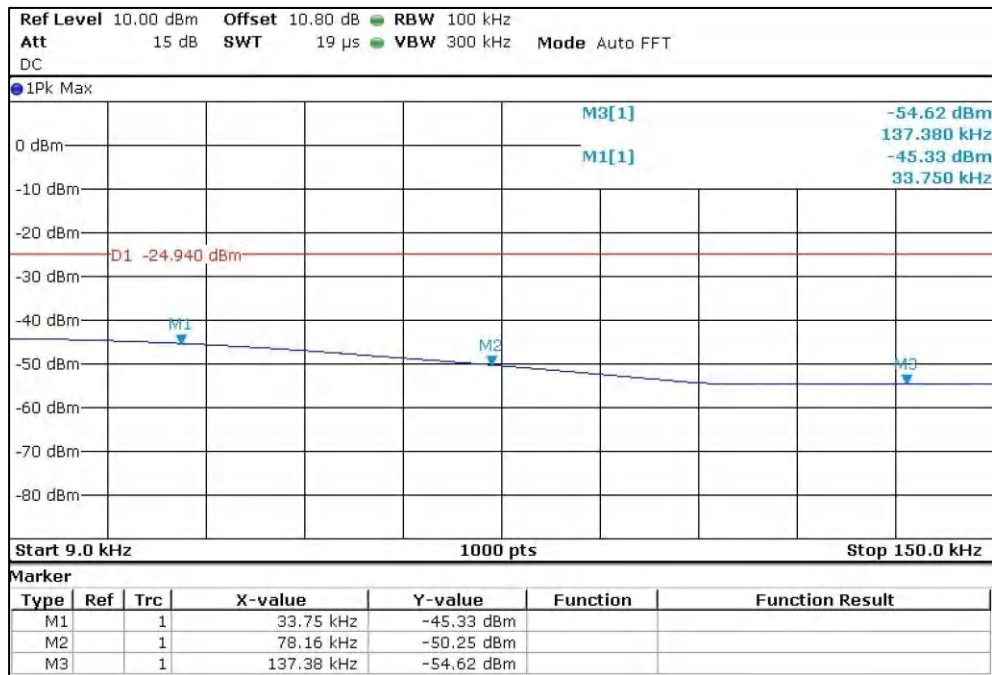
Channel Frequency 2412MHz

Frequency Range 1GHz – 26.5GHz

Prüfbericht - Nr.:
Test Report No.:

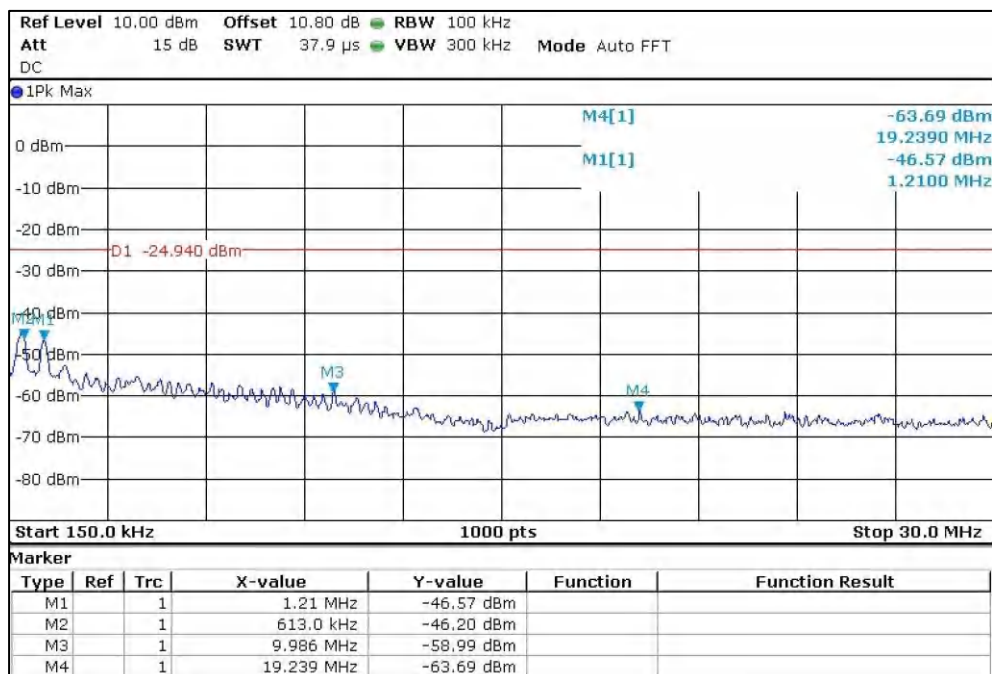
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Channel Frequency 2442MHz

Frequency Range 9kHz –150kHz



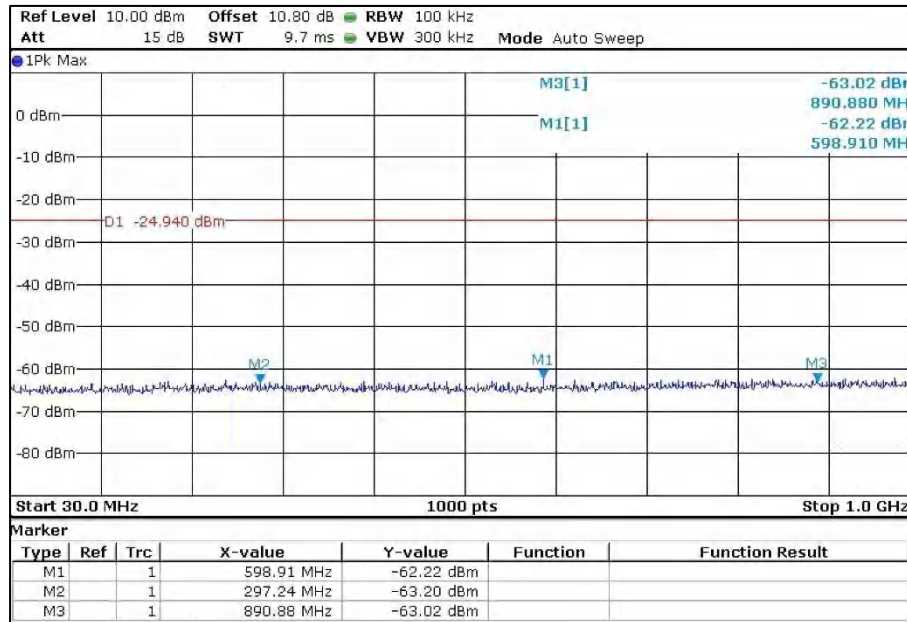
Channel Frequency 2442MHz

Frequency Range 150kHz –30MHz

Prüfbericht - Nr.:
Test Report No.:

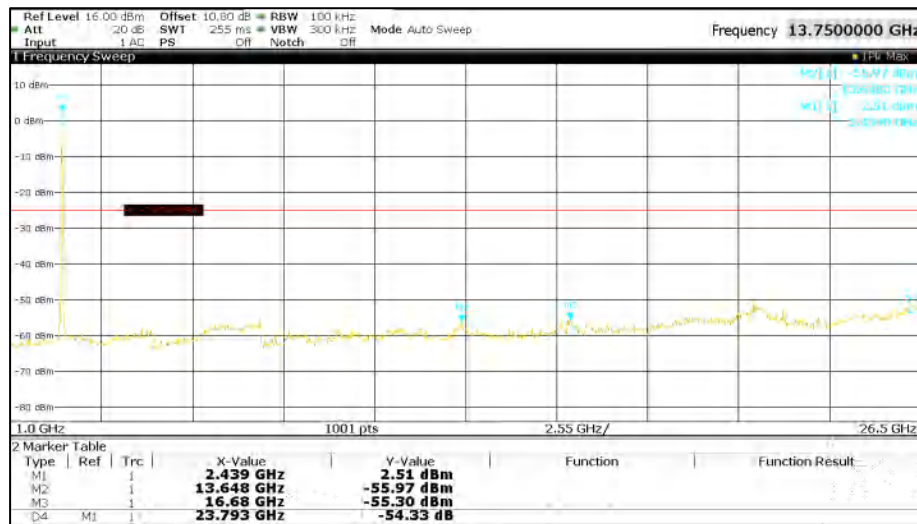
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Channel Frequency 2442MHz

Frequency Range 30MHz –1GHz



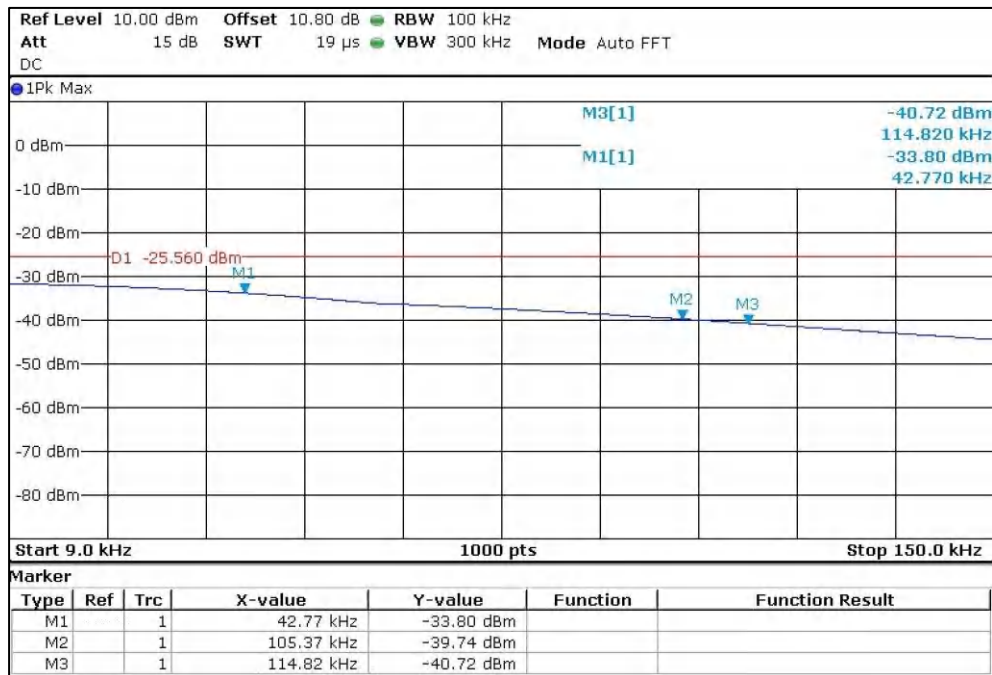
Channel Frequency 2442MHz

Frequency Range 1GHz – 26.5GHz

Prüfbericht - Nr.:
Test Report No.:

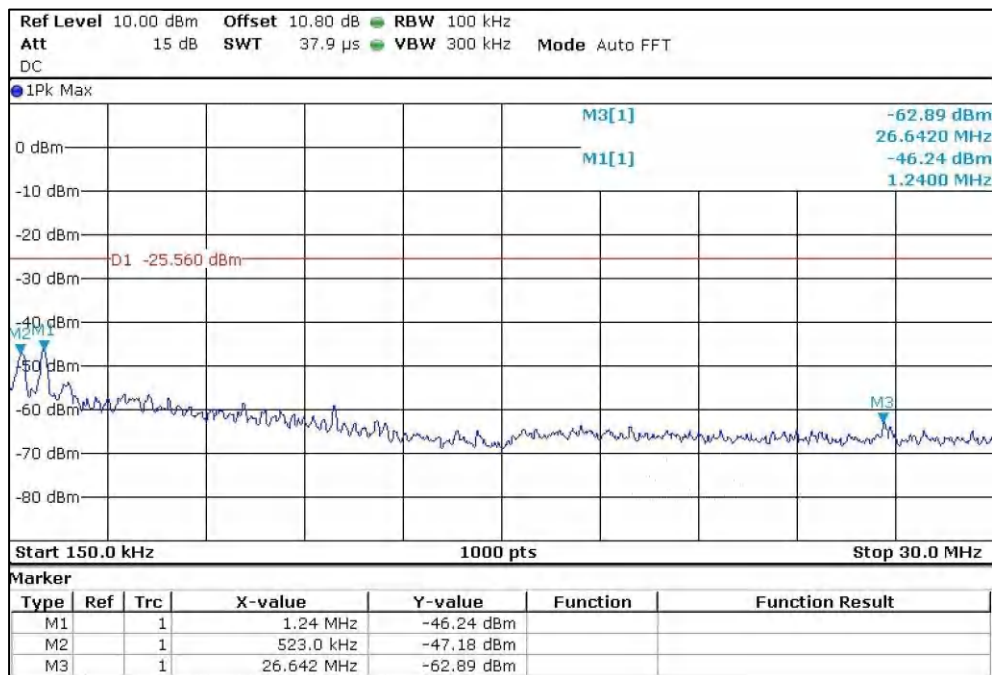
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Channel Frequency 2462MHz

Frequency Range 9kHz –150kHz



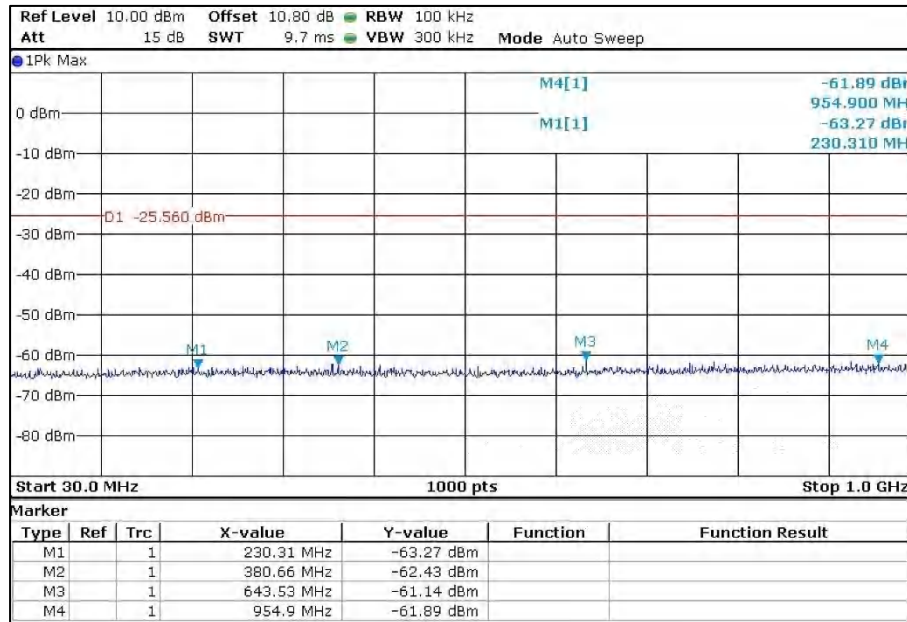
Channel Frequency 2462MHz

Frequency Range 150kHz –30MHz

Prüfbericht - Nr.:
Test Report No.:

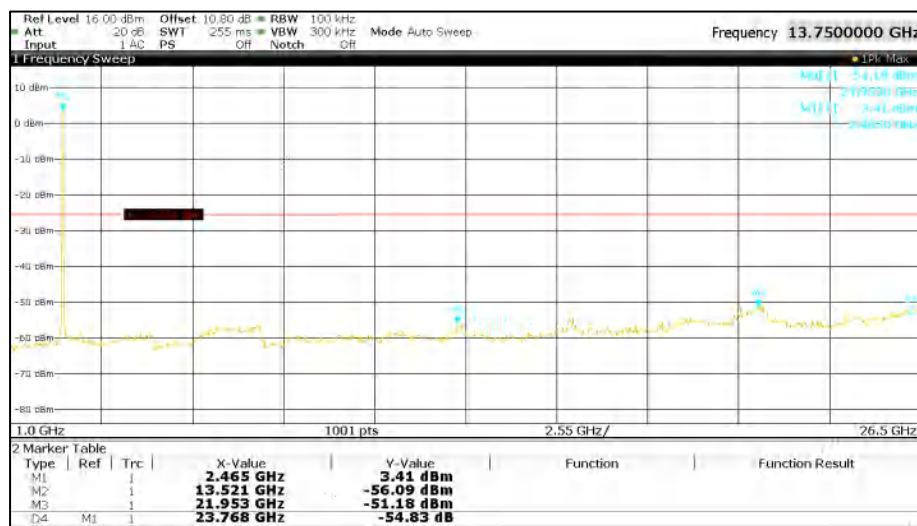
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Channel Frequency 2462MHz

Frequency Range 30MHz –1GHz



Channel Frequency 2462MHz

Frequency Range 1GHz – 26.5GHz

8.5 Spurious Radiated Emissions & Restricted Bands of Operation

Result

Pass

Test Specification	FCC part 15 Subpart C 15.247 (d) / (15.209 & 15.205) / IC RSS-GEN, Section 8.9 and 8.10
Test Method	ANSI C63.10
Measurement Location	Semi Anechoic Chamber 30MHz - 1 GHz Fully Anechoic Chamber 1 GHz - 40GHz
Measurement Bandwidth	100 kHz for frequency range < 1GHz 1 MHz for Frequency range >1GHz
Detector	Refer remarks below
Measuring Distance	3 m
Requirement	As per the limits mentioned in the below table
Test setup	Refer Clause 7 TEST METHODOLOGY

Table 6: Transmitter limits for Radiated emission

Frequency (MHz)	Field strength (μV/m)	Field strength (dBμV/m)	Distance of Measurement (m)
0.009 – 0.490	2400/F(kHz)	48.50 – 13.80	300*
0.490 – 1.705	24000/F(kHz)	33.80 – 23.00	30*
1.705 -30	30	29.54	30*
30-88	100	40.0	3
88-216	150	43.5	3
216-960	200	46.0	3
Above 960	500	54.0	3

Remark: * The limit shows in the table above of frequency range 0.009 – 0.490, 0.490 – 1.705 MHz and 1.705-30MHz is at 300 meter, 30 meter and 30 meter range respectively, which corresponds to 128.51 – 93.80, 73.80 – 62.96 and 69.54 dBμV/m at 3m range by extrapolation calculation and the measurement of loop antenna.

The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz Radiated emission limits in these three bands are based on measurements employing an average detector.

Test Conditions:

Temperature (Norm) = + 25 °C

Voltage = Internal Battery + 5.0 V DC

Relative humidity = 62 %

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Test results:

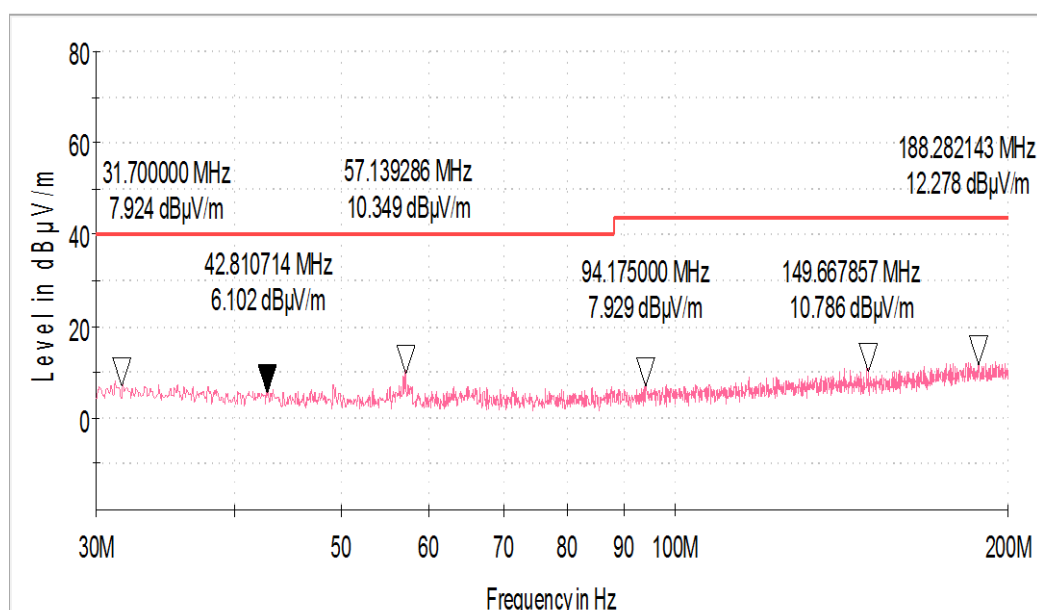
Note: All the losses are included during measurement and final values are mentioned in the test report. Refer TEST METHODOLOGY for more details

Test results for Frequency range : 9kHz – 30MHz

No Emissions found in the frequency range 9kHz – 30MHz

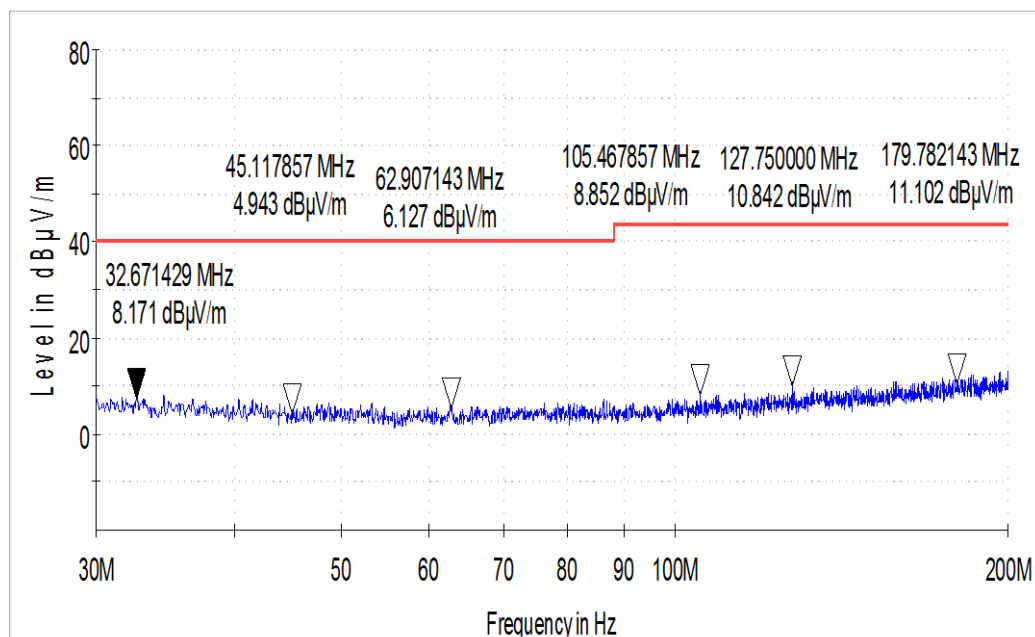
Test results for frequency range 30MHz – 1GHz

Antenna Polarization	Measured Frequency (MHz)	Measured value (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Vertical	31.70	7.92	40.00	-32.08
	57.13	10.34	40.00	-29.66
	94.17	7.92	43.50	-35.58
	188.28	12.27	43.50	-31.23
	212.73	7.95	43.50	-35.55
	432.01	18.27	46.00	-27.73
	719.98	24.76	46.00	-21.24
	903.63	24.32	46.00	-21.68
Horizontal	32.67	8.17	40.00	-31.83
	62.90	6.12	43.50	-37.38
	127.75	10.84	43.50	-32.66
	432.01	18.33	46.00	-27.67
	591.28	26.92	46.00	-19.08
	623.97	29.03	46.00	-16.97
	719.98	28.25	46.00	-17.75
	830.00	33.03	46.00	-12.97



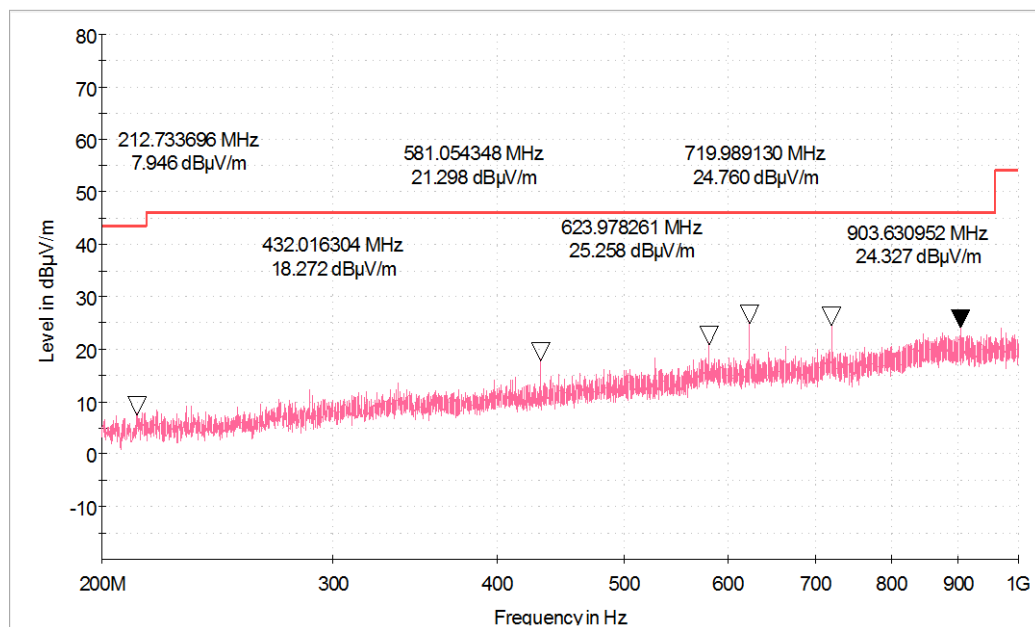
Channel Frequency 30MHz – 200MHz

Polarization Vertical



Channel Frequency 30MHz – 200MHz

Polarization Horizontal



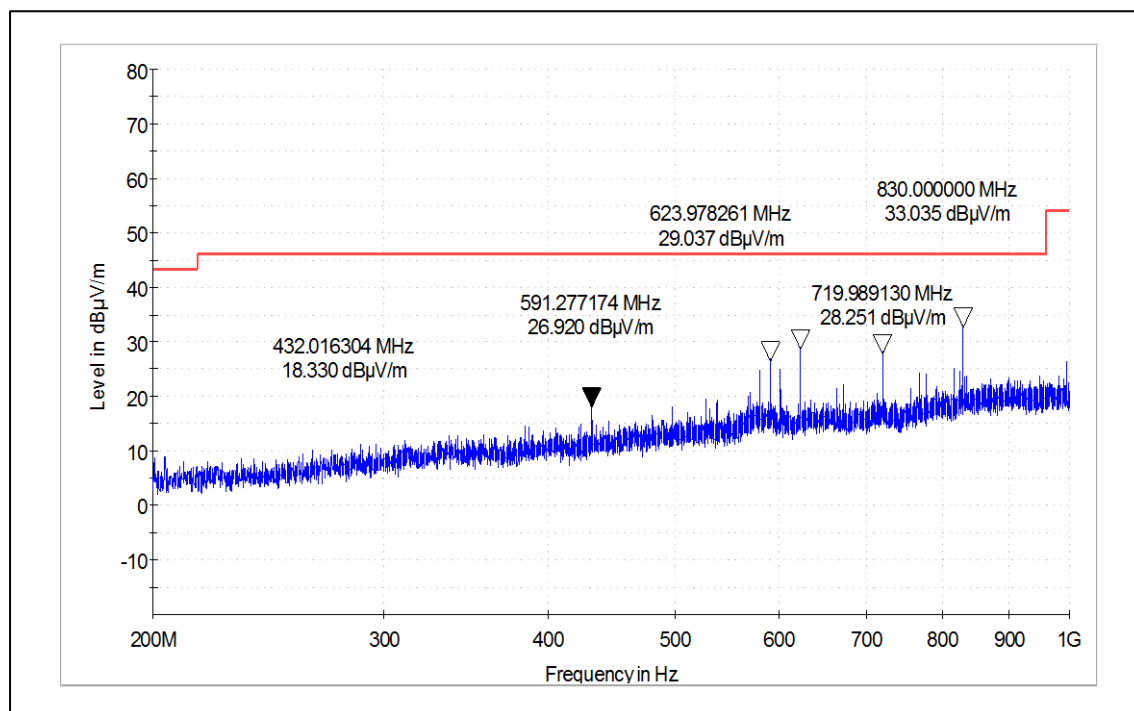
Channel Frequency 200MHz – 1GHz

Polarization Vertical

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Channel Frequency 200MHz – 1GHz

Polarization Horizontal

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Test results for the frequencies in the range 1 GHz to 26.5 GHz

Modulation: 802.11b

Data Rate: 1Mbps

Channel Frequency (MHz)	Antenna Polarization	Measured Frequency (MHz)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
2412	Vertical	2412(Pk)	95.70	-	-
		2412(Av)	92.85	-	-
		2390(Pk)	39.60	74*	-34.40
		2390(Av)	27.08	54*	-26.92
		4824(Pk)	42.26	74	-31.74
		4824(Av)	32.11	54	-21.89
		7236(Pk)	47.20	74	-26.80
		7236(Av)	35.23	54	-18.77
	Horizontal	2412(Pk)	96.84	-	-
		2412(Av)	93.96	-	-
		2390(Pk)	42.12	74*	-31.88
		2390(Av)	29.30	54*	-24.70
		4824(Pk)	43.66	74	-30.34
		4824(Av)	33.74	54	-20.26
		7236(Pk)	No Harmonics Found		
		7236(Av)			
2442	Vertical	2442(Pk)	95.68	-	-
		2442(Av)	92.78	-	-
		4884(Pk)	45.13	74	-28.87
		4884(Av)	38.63	54	-15.37
		7326(Pk)	49.95	74	-24.05
		7326(Av)	39.74	54	-14.26
	Horizontal	2442(Pk)	96.05	-	-
		2442(Av)	93.40	-	-
		4884(Pk)	46.12	74	-27.88
		4884(Av)	41.08	54	-12.92
		7326(Pk)	No Harmonics Found		
		7326(Av)			
2462	Vertical	2483.5(Pk)	41.26	74*	-32.74
		2483.5(Av)	29.35	54*	-24.65
		2462(Pk)	96.18	-	-
		2462(Av)	93.50	-	-
		4924(Pk)	46.11	74	-27.89
		4924(Av)	40.16	54	-13.84
		7386(Pk)	49.92	74	-24.08
		7386(Av)	40.76	54	-13.24
	Horizontal	2483.5(Pk)	41.99	74*	-32.01
		2483.5(Av)	29.84	54*	-24.16
		2462(Pk)	95.72	-	-
		2462(Av)	93.08	-	-
		4924(Pk)	45.38	74	-28.62
		4924(Av)	39.04	54	-14.96
		No Harmonics Found			

*- : Indicate restricted band of operation §15.205
Pk: Peak Detector; Av: Average Detector

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Modulation: 802.11b
Data Rate: 11Mbps

Channel Frequency (MHz)	Antenna Polarization	Measured Frequency (MHz)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
2412	Vertical	2412(Pk)	100.67	-	-
		2412(Av)	91.90	-	-
		2390(Pk)	41.99	74*	-32.01
		2390(Av)	27.82	54*	-26.18
		4824(Pk)	42.42	74	-31.58
		4824(Av)	30.78	54	-23.22
		7236(Pk)	No Harmonics Found		
		7236(Av)			
	Horizontal	2412(Pk)	100.49	-	-
		2412(Av)	91.81	-	-
		2390(Pk)	42.46	74*	-31.54
		2390(Av)	28.41	54*	-25.59
		4824(Pk)	42.83	74	-31.17
		4824(Av)	31.16	54	-22.84
		7236(Pk)	No Harmonics Found		
		7236(Av)			
2442	Vertical	2442(Pk)	100.76	-	-
		2442(Av)	91.97	-	-
		4884(Pk)	42.89	74	-31.11
		4884(Av)	31.56	54	-22.44
		7326(Pk)	No Harmonics Found		
		7326(Av)			
	Horizontal	2442(Pk)	100.81	-	-
		2442(Av)	91.98	-	-
		4884(Pk)	43.87	74	-30.13
		4884(Av)	30.80	54	-23.20
		7326(Pk)	No Harmonics Found		
		7326(Av)			
2462	Vertical	2483.5(Pk)	40.34	74*	-33.66
		2483.5(Av)	27.86	54*	-26.14
		2462(Pk)	100.48	-	-
		2462(Av)	91.62	-	-
		4924(Pk)	43.62	74	-30.38
		4924(Av)	31.12	54	-22.88
		7386(Pk)	No Harmonics Found		
		7386(Av)			
	Horizontal	2483.5(Pk)	41.49	74*	-32.51
		2483.5(Av)	28.47	54*	-25.53
		2462(Pk)	100.87	-	-
		2462(Av)	91.92	-	-
		4924(Pk)	44.19	74	-29.81
		4924(Av)	32.39	54	-21.61
		7386(Pk)	No Harmonics Found		
		7386(Av)			

*- : Indicate restricted band of operation §15.205
Pk: Peak Detector; Av: Average Detector

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Modulation: 802.11g
Data Rate: 6Mbps

Channel Frequency (MHz)	Antenna Polarization	Measured Frequency (MHz)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
2412	Vertical	2412(Pk)	102.22	-	-
		2412(Av)	93.18	-	-
		2390(Pk)	67.33	74*	-6.67
		2390(Av)	50.80	54*	-3.20
		4824(Pk)	44.45	74	-29.55
		4824(Av)	32.11	54	-21.89
		7236(Pk)	No Harmonics Found		
		7236(Av)			
	Horizontal	2412(Pk)	102.35	-	-
		2412(Av)	93.33	-	-
		2390(Pk)	69.17	74*	-4.83
		2390(Av)	52.64	54*	-1.36
		4824(Pk)	43.84	74	-30.16
		4824(Av)	31.15	54	-22.85
		7236(Pk)	No Harmonics Found		
		7236(Av)			
2442	Vertical	2442(Pk)	110.50	-	-
		2442(Av)	100.37	-	-
		4884(Pk)	41.11	74	-26.92
		4884(Av)	29.13	54	-19.22
		7326(Pk)	47.65	74	-20.90
		7326(Av)	34.77	54	-13.44
	Horizontal	2442(Pk)	102.64	-	-
		2442(Av)	93.54	-	-
		4884(Pk)	45.46	74	-28.54
		4884(Av)	31.79	54	-22.21
		7326(Pk)	No Harmonics Found		
		7326(Av)			
2462	Vertical	2483.5(Pk)	65.32	74*	-8.68
		2483.5(Av)	51.66	54*	-2.34
		2462(Pk)	102.44	-	-
		2462(Av)	93.35	-	-
		4924(Pk)	43.91	74	-30.09
		4924(Av)	31.49	54	-22.51
		7386(Pk)	No Harmonics Found		
		7386(Av)			
	Horizontal	2483.5(Pk)	65.53	74*	28.52
		2483.5(Av)	50.96	54*	39.53
		2462(Pk)	102.52	-	-
		2462(Av)	93.53	-	-
		4924(Pk)	45.20	74	-28.80
		4924(Av)	31.68	54	-22.32
		7386(Pk)	No Harmonics Found		
		7386(Av)			

*- : Indicate restricted band of operation §15.205
Pk: Peak Detector; Av: Average Detector

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Modulation: 802.11g

Data Rate: 54Mbps

Channel Frequency (MHz)	Antenna Polarization	Measured Frequency (MHz)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
2412	Vertical	2412(Pk)	101.61	-	-
		2412(Av)	88.47	-	-
		2390(Pk)	61.02	74*	-12.98
		2390(Av)	43.69	54*	-10.31
		4824(Pk)	44.43	74	-29.57
		4824(Av)	31.38	54	-22.62
		7236(Pk)	No Harmonics Found		
		7236(Av)			
	Horizontal	2412(Pk)	101.67	-	-
		2412(Av)	88.61	-	-
		2390(Pk)	62.71	74*	-11.29
		2390(Av)	44.98	54*	-9.02
		4824(Pk)	42.25	74	-31.75
		4824(Av)	30.08	54	-23.92
		7236(Pk)	No Harmonics Found		
		7236(Av)			
2442	Vertical	2442(Pk)	101.68	-	-
		2442(Av)	88.41	-	-
		4884(Pk)	42.20	74	-31.80
		4884(Av)	29.89	54	-24.11
		7326(Pk)	No Harmonics Found		
		7326(Av)			
	Horizontal	2442(Pk)	102.50	-	-
		2442(Av)	89.06	-	-
		4884(Pk)	44.33	74	-29.67
		4884(Av)	31.09	54	-22.91
		7326(Pk)	No Harmonics Found		
		7326(Av)			
2462	Vertical	2483.5(Pk)	61.54	74*	-12.46
		2483.5(Av)	45.24	54*	-8.76
		2462(Pk)	102.25	-	-
		2462(Av)	89.05	-	-
		4924(Pk)	43.32	74	-30.68
		4924(Av)	29.96	54	-24.04
		7386(Pk)	No Harmonics Found		
		7386(Av)			
	Horizontal	2483.5(Pk)	59.69	74*	-14.31
		2483.5(Av)	43.76	54*	-10.24
		2462(Pk)	102.13	-	-
		2462(Av)	89.04	-	-
		4924(Pk)	43.38	74	-30.62
		4924(Av)	30.59	54	-23.41
		7386(Pk)	No Harmonics Found		
		7386(Av)			

*- : Indicate restricted band of operation §15.205

Pk: Peak Detector; Av: Average Detector

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Modulation: 802.11n_HT20
Data Rate: MCS0

Channel Frequency (MHz)	Antenna Polarization	Measured Frequency (MHz)	Field Strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2412	Vertical	2412(Pk)	103.47	-	-
		2412(Av)	93.06	-	-
		2390(Pk)	68.23	74*	-5.77
		2390(Av)	50.07	54*	-3.93
		4824(Pk)	43.33	74	-30.67
		4824(Av)	30.75	54	-23.25
		7236(Pk)	No Harmonics Found		
		7236(Av)			
	Horizontal	2412(Pk)	103.96	-	-
		2412(Av)	93.83	-	-
		2390(Pk)	68.73	74*	-5.27
		2390(Av)	50.52	54*	-3.48
		4824(Pk)	43.36	74	-30.64
		4824(Av)	31.24	54	-22.76
		7236(Pk)	No Harmonics Found		
		7236(Av)			
2442	Vertical	2442(Pk)	102.92	-	-
		2442(Av)	92.63	-	-
		4884(Pk)	43.45	74	-30.55
		4884(Av)	31.41	54	-22.59
		7326(Pk)	50.41	74	-23.59
		7326(Av)	37.31	54	-16.69
	Horizontal	2442(Pk)	104.24	-	-
		2442(Av)	94.02	-	-
		4884(Pk)	45.75	74	-28.25
		4884(Av)	32.38	54	-21.62
		7326(Pk)	No Harmonics Found		
		7326(Av)			
2462	Vertical	2483.5(Pk)	70.12	74*	-3.88
		2483.5(Av)	49.25	54*	-4.75
		2462(Pk)	102.92	-	-
		2462(Av)	92.72	-	-
		4924(Pk)	45.19	74	-28.81
		4924(Av)	31.61	54	-22.39
		7386(Pk)	No Harmonics Found		
		7386(Av)			
	Horizontal	2483.5(Pk)	68.21	74*	-5.79
		2483.5(Av)	48.70	54*	-5.30
		2462(Pk)	104.63	-	-
		2462(Av)	94.67	-	-
		4924(Pk)	45.48	74	-28.52
		4924(Av)	32.10	54	-21.90
		7386(Pk)	No Harmonics Found		
		7386(Av)			

*- : Indicate restricted band of operation §15.205
Pk: Peak Detector; Av: Average Detector

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Modulation: 802.11n_HT20

Data Rate: MCS7

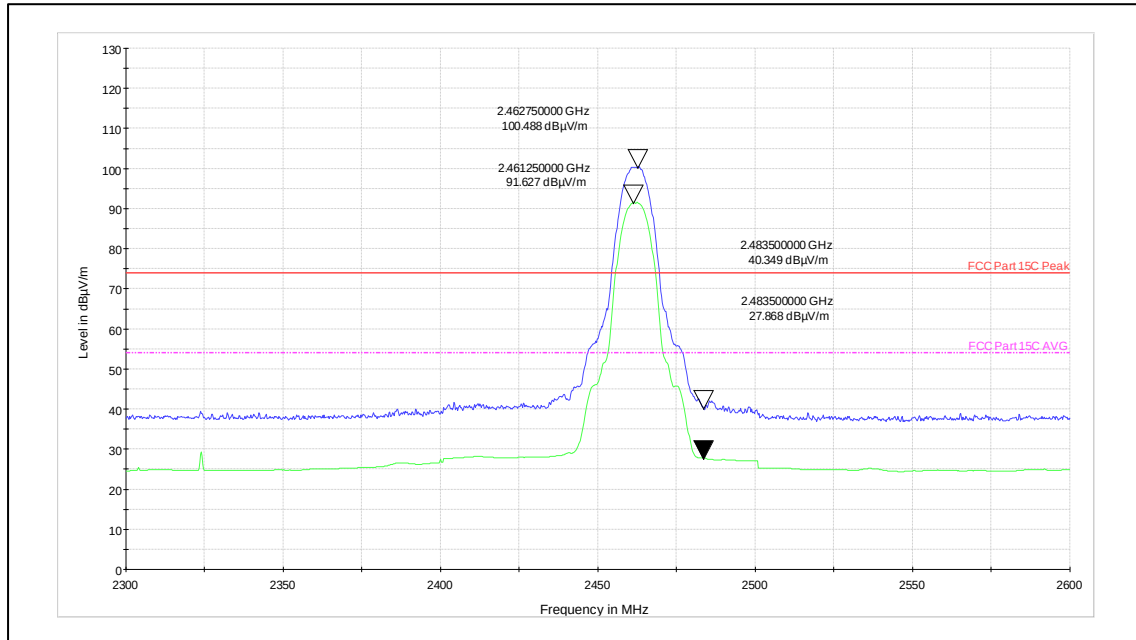
Channel Frequency (MHz)	Antenna Polarization	Measured Frequency (MHz)	Field Strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2412	Vertical	2412(Pk)	100.63	-	-
		2412(Av)	86.40	-	-
		2390(Pk)	61.05	74*	-12.95
		2390(Av)	41.09	54*	-12.91
		4824(Pk)	42.53	74	-31.47
		4824(Av)	30.46	54	-23.54
		7236(Pk)	No Harmonics Found		
		7236(Av)			
	Horizontal	2412(Pk)	102.08	-	-
		2412(Av)	87.85	-	-
		2390(Pk)	63.42	74*	-10.58
		2390(Av)	42.60	54*	-11.40
		4824(Pk)	42.16	74	-31.84
		4824(Av)	29.89	54	-24.11
		7236(Pk)	No Harmonics Found		
		7236(Av)			
2442	Vertical	2442(Pk)	101.59	-	-
		2442(Av)	87.34	-	-
		4884(Pk)	44.99	74	-29.01
		4884(Av)	31.45	54	-22.55
		7326(Pk)	49.94	74	-24.06
		7326(Av)	36.20	54	-17.80
	Horizontal	2442(Pk)	102.82	-	-
		2442(Av)	88.56	-	-
		4884(Pk)	42.16	74	-31.84
		4884(Av)	30.39	54	-23.61
		7326(Pk)	No Harmonics Found		
		7326(Av)			
2462	Vertical	2483.5(Pk)	62.66	74*	-11.34
		2483.5(Av)	42.86	54*	-11.14
		2462(Pk)	102.36	-	-
		2462(Av)	88.03	-	-
		4924(Pk)	41.61	74	-32.39
		4924(Av)	29.47	54	-24.53
		7386(Pk)	No Harmonics Found		
		7386(Av)			
	Horizontal	2483.5(Pk)	63.30	74*	-10.70
		2483.5(Av)	42.98	54*	-11.02
		2462(Pk)	103.51	-	-
		2462(Av)	89.24	-	-
		4924(Pk)	42.94	74	-31.06
		4924(Av)	30.35	54	-23.65
		7386(Pk)	No Harmonics Found		
		7386(Av)			

*- : Indicate restricted band of operation §15.205

Pk: Peak Detector; Av: Average Detector

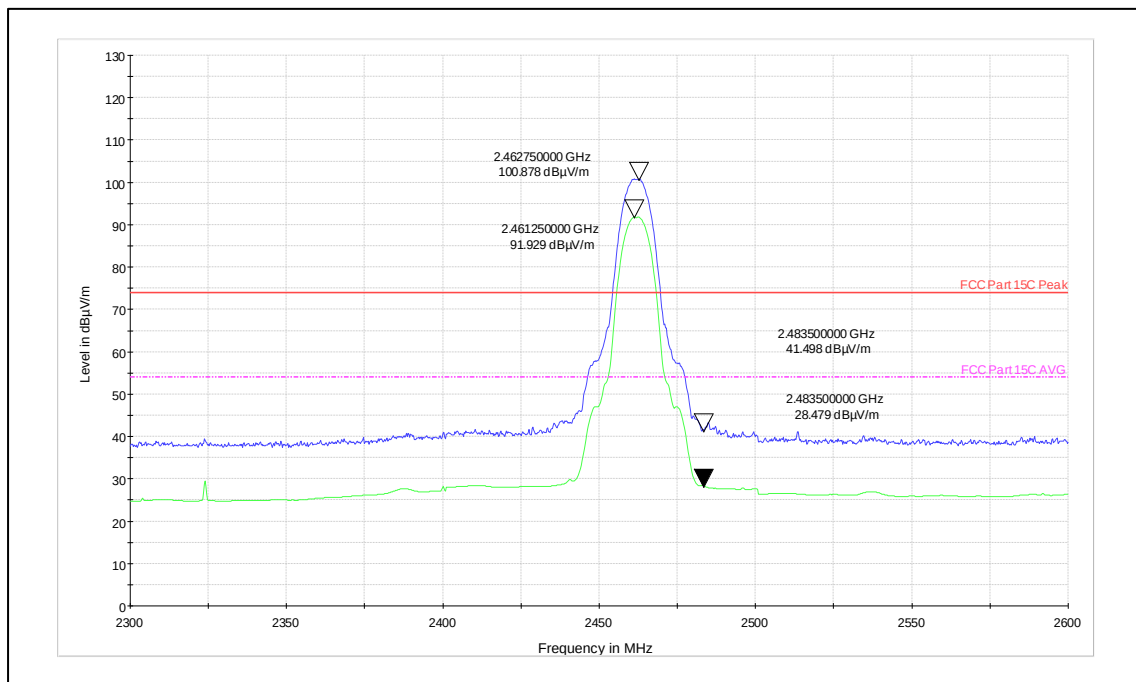
Worst case Plots

Modulation: 802.11b_HT20
Data Rate: 11Mbps



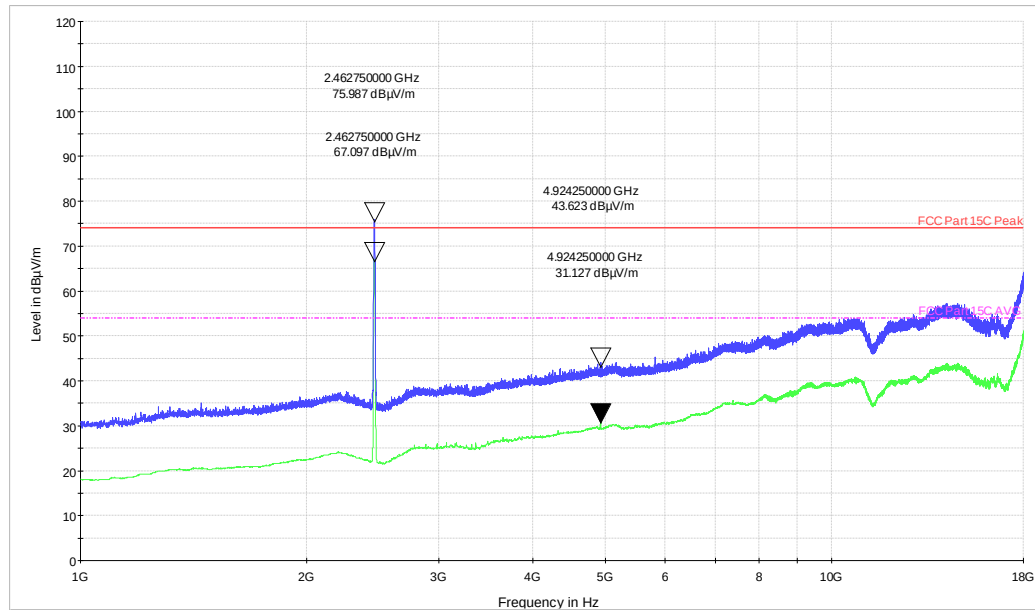
Channel Frequency: 2462MHz

Polarization: Vertical

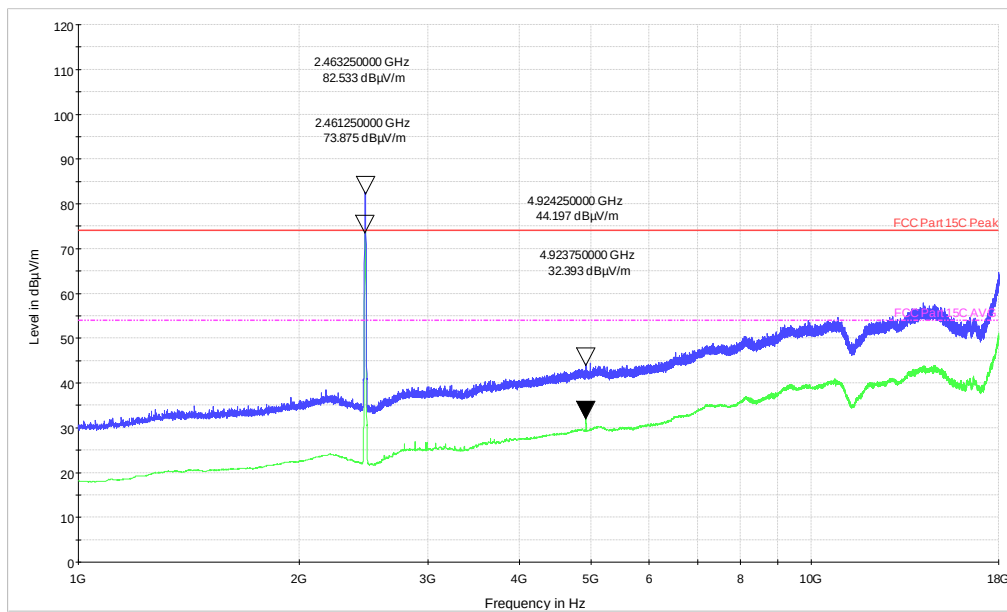


Channel Frequency: 2462MHz

Polarization: Horizontal



Channel Frequency: 1GHz – 18GHz Channel Frequency: 2462MHz Polarization: Vertical



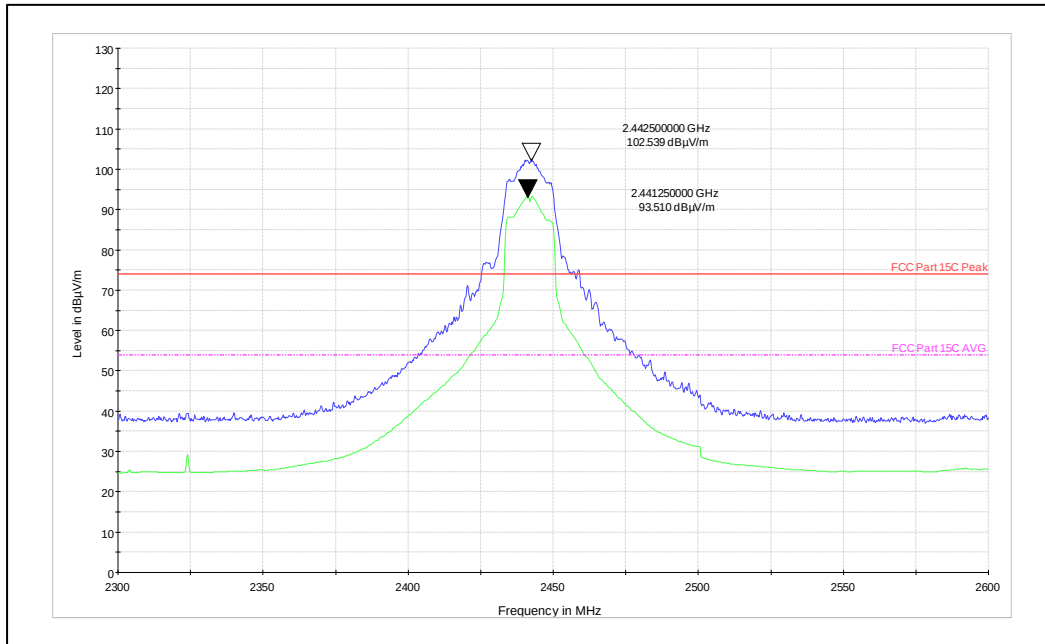
Channel Frequency: 1GHz – 18GHz Channel Frequency: 2462MHz Polarization: Horizontal

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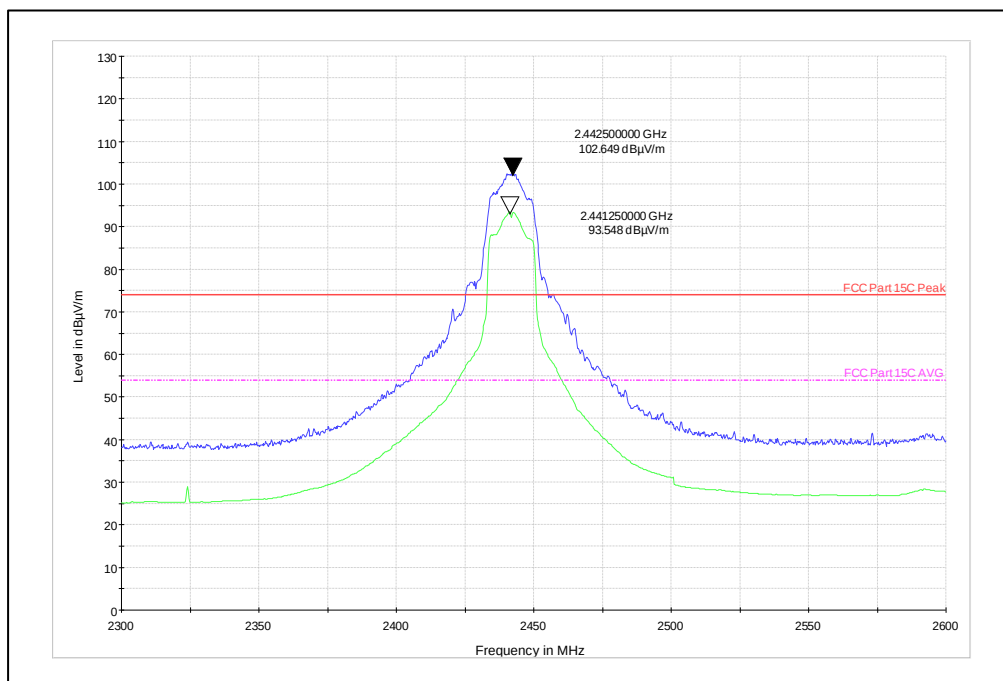
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Modulation: 802.11g_HT20
Data Rate: 6Mbps



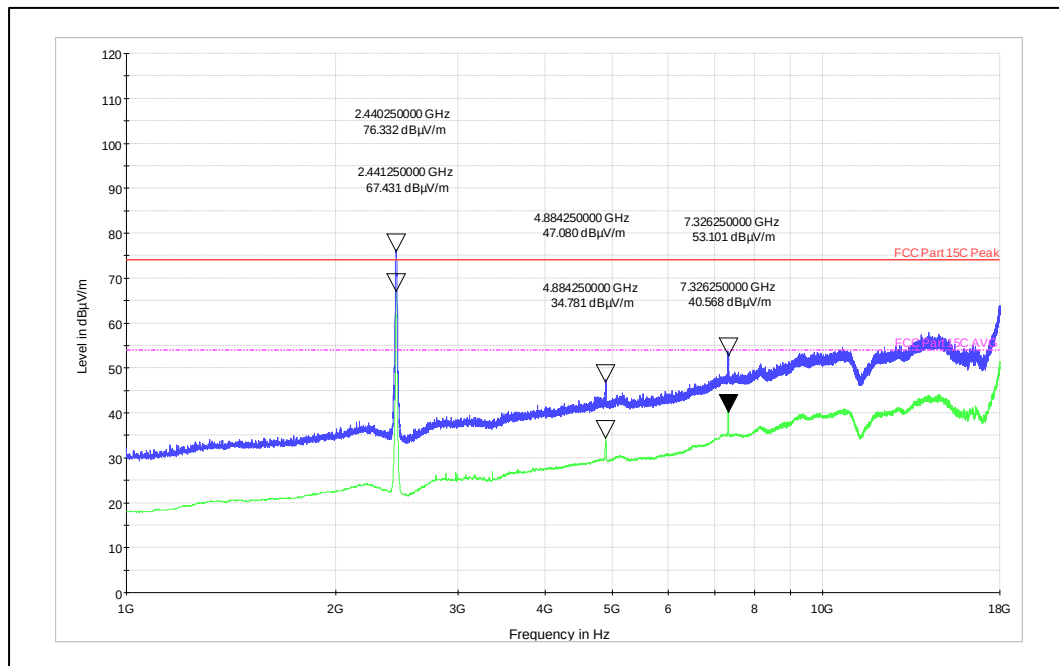
Channel Frequency: 2442MHz

Polarization: Vertical

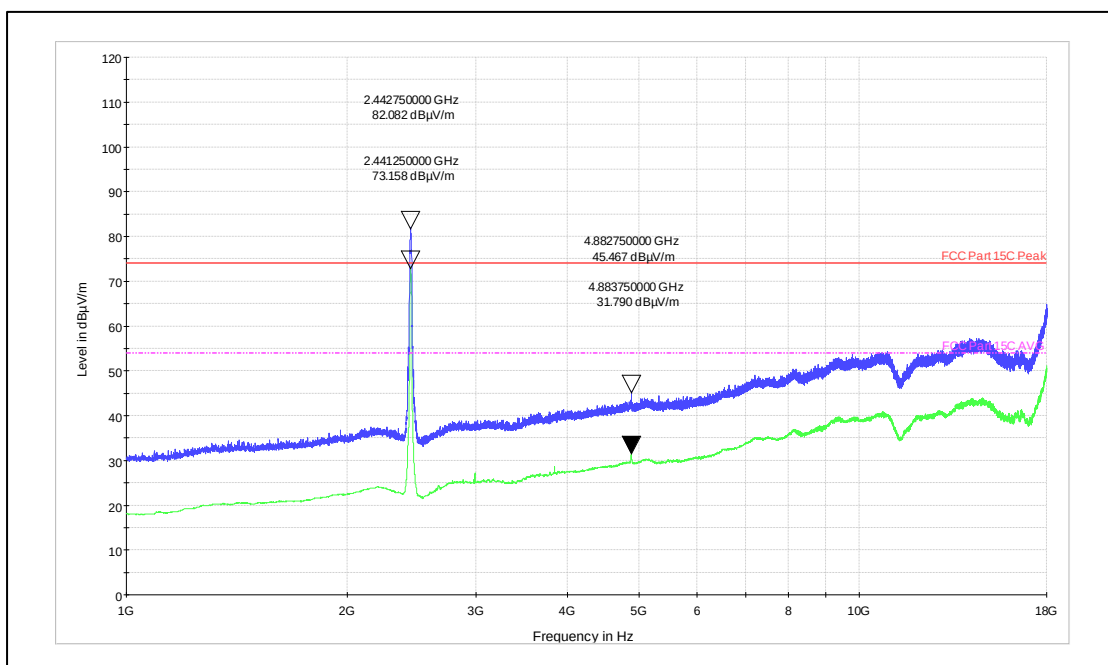


Channel Frequency: 2442MHz

Polarization: Horizontal



Channel Frequency: 1GHz – 18GHz Channel Frequency: 2442MHz Polarization: Vertical



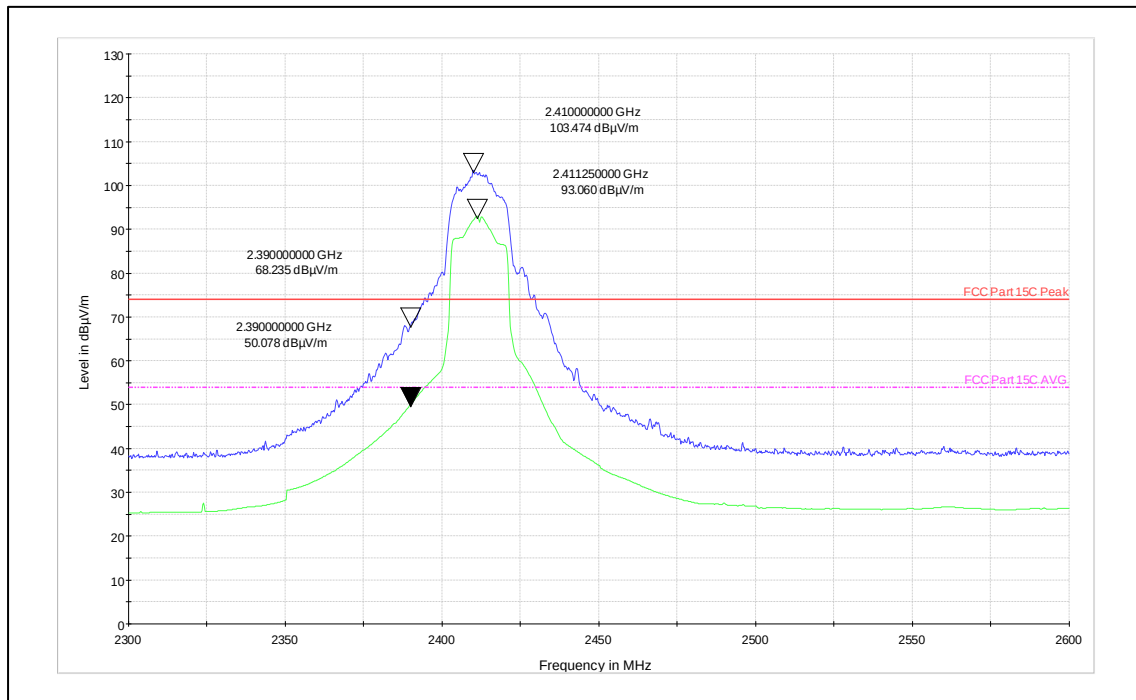
Channel Frequency: 1GHz – 18GHz Channel Frequency: 2442MHz Polarization: Horizontal

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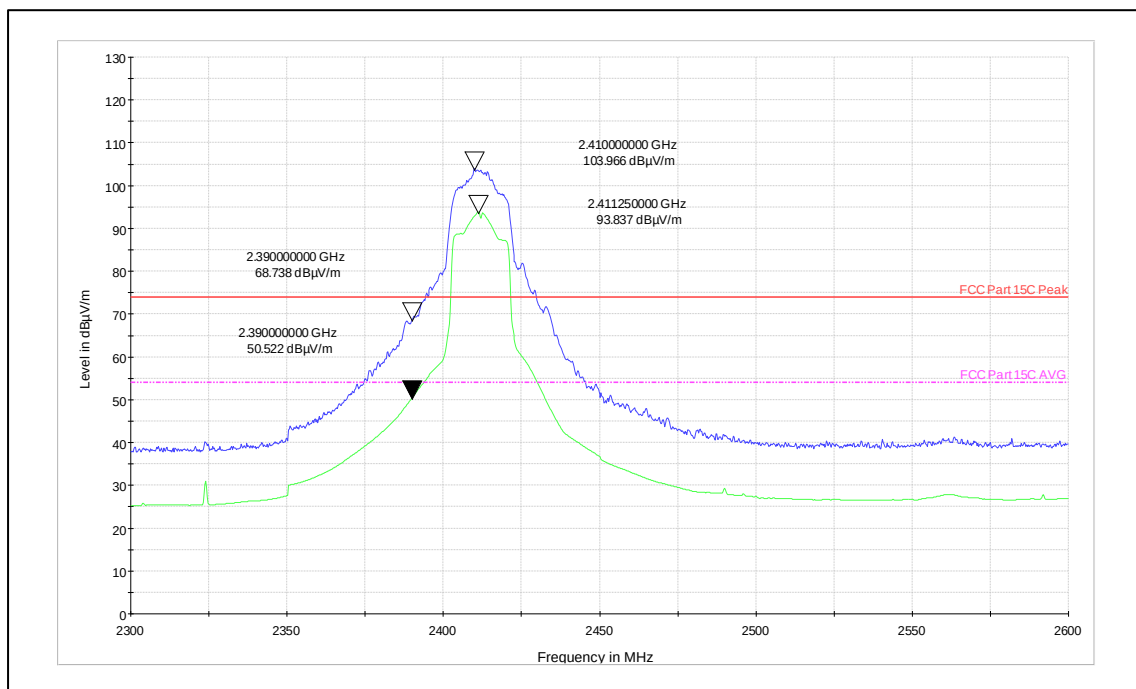
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Modulation: 802.11n_HT20
Data Rate: MCS0



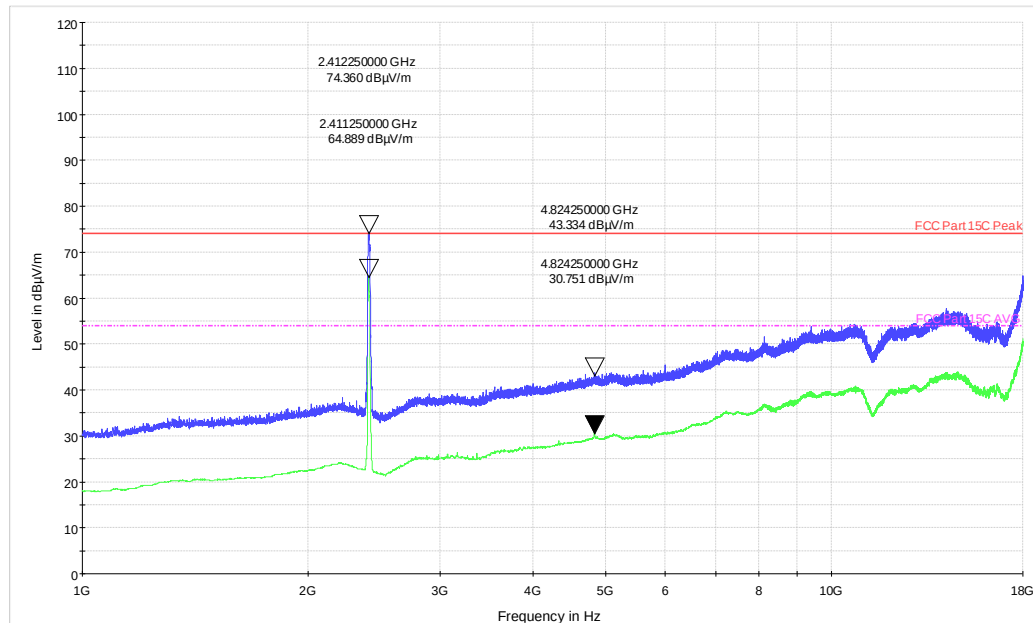
Channel Frequency: 2412MHz

olarization: Vertical

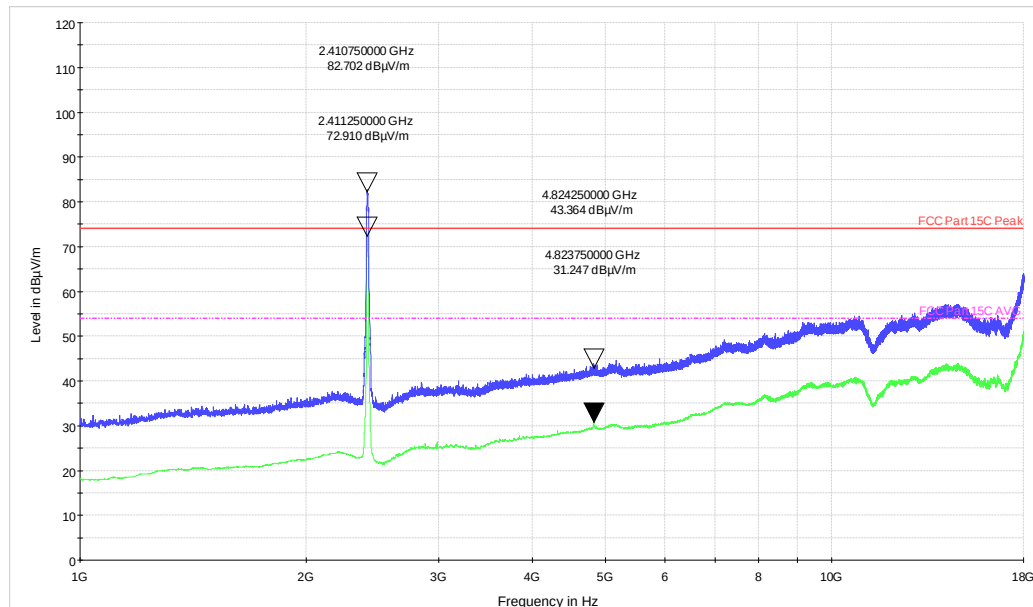


Channel Frequency: 2412MHz

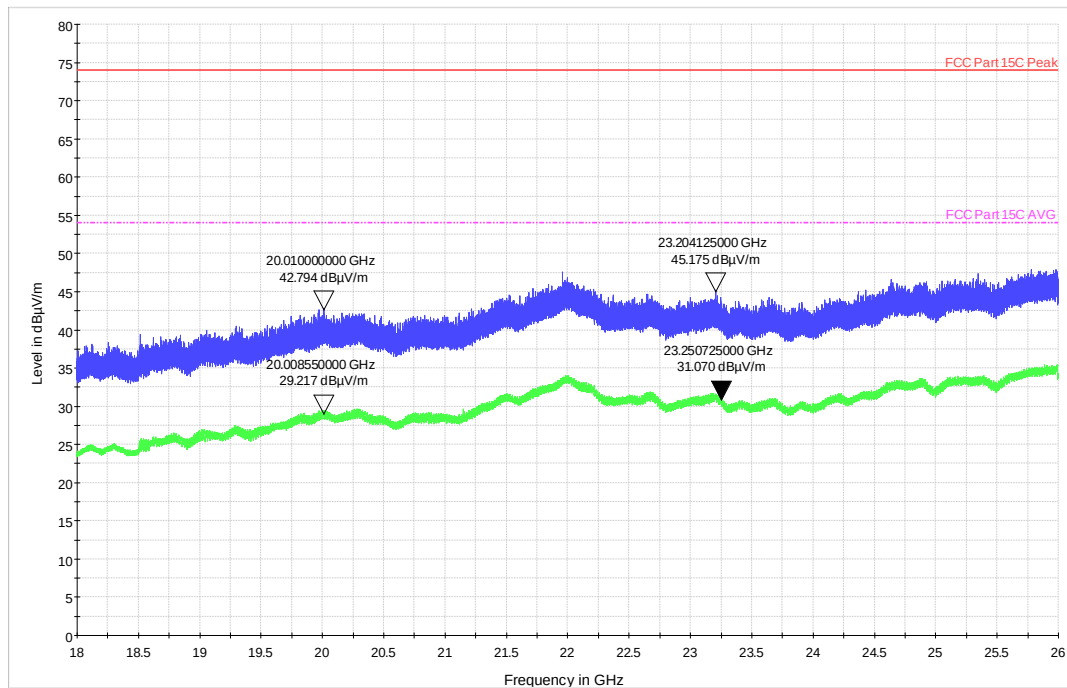
Polarization: Horizontal



Channel Frequency: 1GHz – 18GHz Channel Frequency: 2412MHz Polarization: Vertical

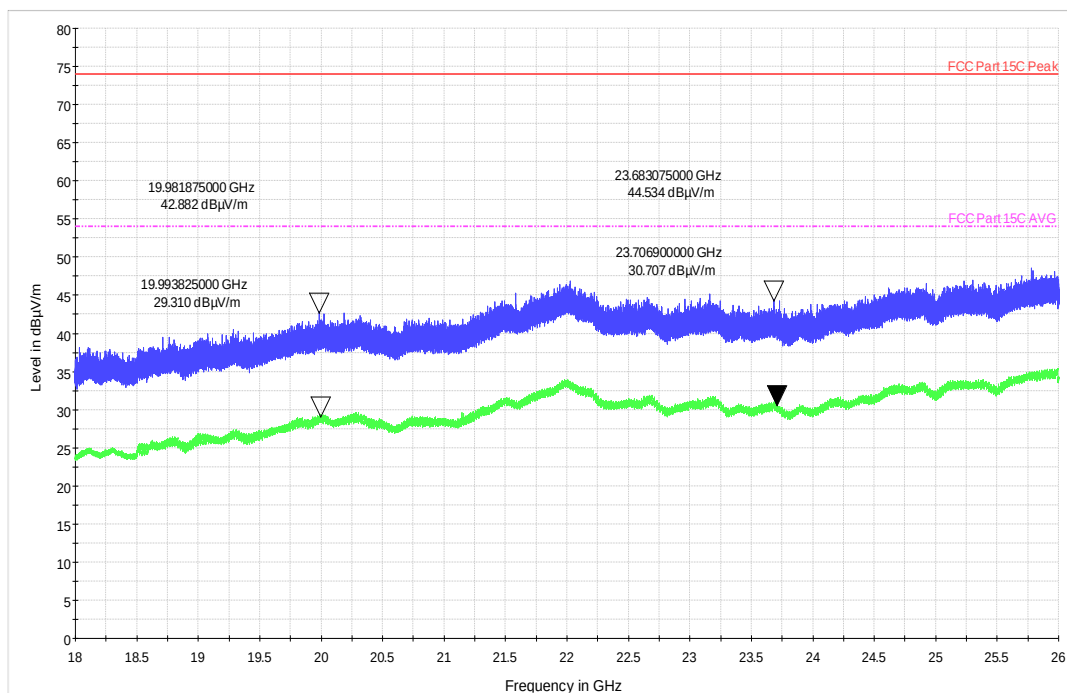


Channel Frequency: 1GHz – 18GHz Channel Frequency: 2412MHz Polarization: Horizontal



Channel Frequency: 18 - 40 GHz

Polarization: Vertical



Channel Frequency: 18 - 40 GHz

Polarization: Horizontal

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8.5.1 RSE Test Results of Simultaneous Operation with Cellular and Non-Cellular:

Note: Simultaneous Operation was performed As specified under the section 4.4 and worst case test results are mentionrd in this report.

Worst case result for Wifi and WCDMA

Combination: WCDMA Band 4 and WiFi

Antenna Polarization	Measured Frequency (MHz)	Field Strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Vertical	1691.5(Pk)	84.63	-	-
	1691.5(Ak)	76.66	-	-
	2390.0(Pk)	64.78	74*	-9.22
	2390.0(Av)	44.45	54*	-9.55
	2412.0(Pk)	72.13	-	-
	2412.0(Av)	63.18	-	-
	3391.2(Pk)	57.18	74	-16.82
	3391.2(Av)	47.18	54	-6.82
	4239.0(Pk)	47.00	74	-27.00
	4239.0(AV)	35.19	54	-18.81
	5087.5(Pk)	52.92	74	-21.08
	5087.5(Av)	40.53	54	-13.47
Horizontal	1691.5(Pk)	90.05	-	-
	1691.5(Av)	82.12	-	-
	2390.0(Pk)	56.4	74*	-17.60
	2390.0(Av)	38.31	54*	-15.69
	2412.0(Pk)	70.75	-	-
	2412.0(Av)	61.83	-	-
	3391.2(Pk)	45.62	74	-28.38
	3391.2(Av)	35.33	54	-18.67
	4824.0(Pk)	44.93	74	-29.07
	4824.0(Av)	31.39	54	-22.61

Prüfbericht - Nr.:
Test Report No.:

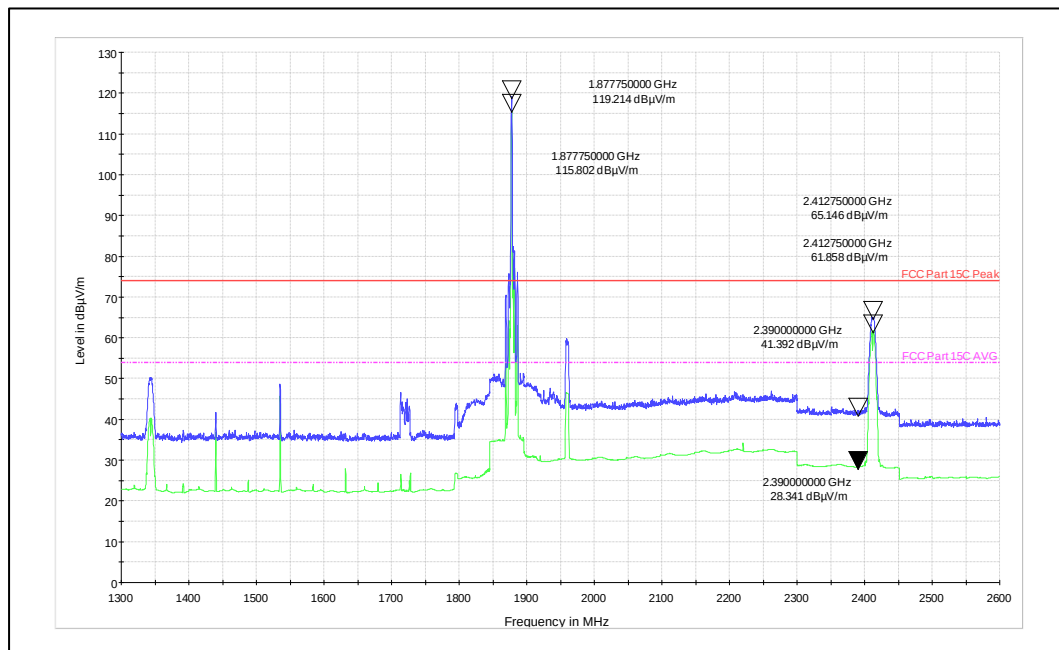
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Worst case result for Wifi and LTE
Combination: LTE Band 2 and WiFi

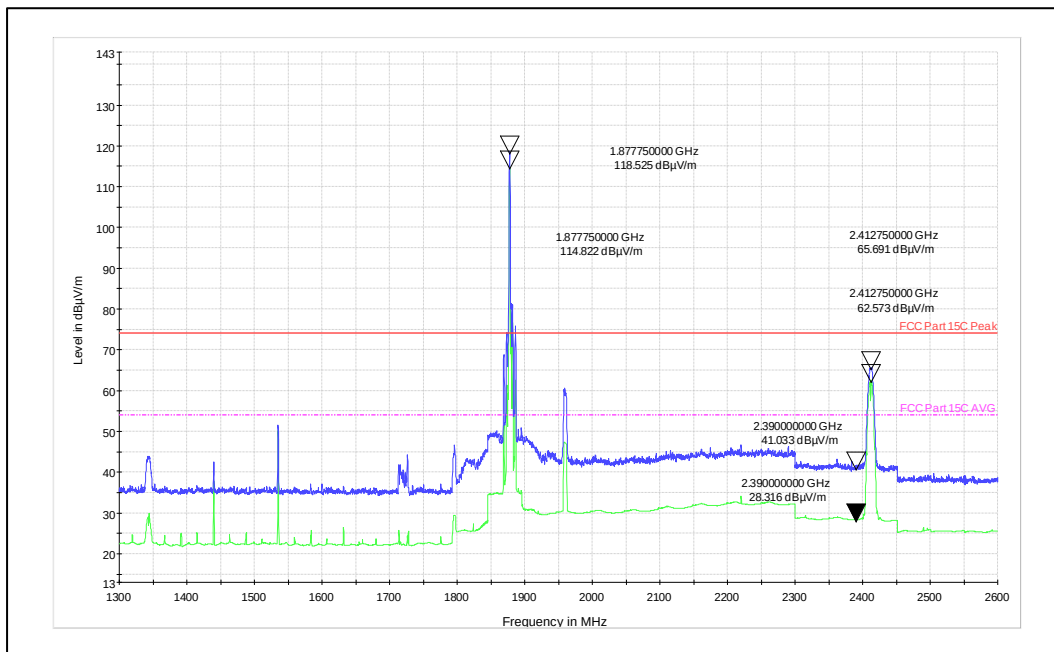
Antenna Polarization	Measured Frequency (MHz)	Field Strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Vertical	1877.7(Pk)	119.21	-	-
	1877.7(Av)	115.80	-	-
	2390.0(Pk)	41.03	74*	-32.97
	2390.0(Av)	28.31	54*	-25.69
	2412.0(Pk)	65.14	-	-
	2412.0(Av)	61.85	-	-
	3755.5(Pk)	57.18	74	-16.82
	3755.5(Av)	47.18	54	-6.82
	5633.2(Pk)	47.00	74	-27.00
	5633.2(AV)	35.19	54	-18.81
	5087.5(Pk)	No harmonics Found		
	5087.5(Av)			
Horizontal	1877.7(Pk)	118.52	-	-
	1877.7(Av)	114.82	-	-
	2390.0(Pk)	41.03	74*	-32.97
	2390.0(Av)	28.31	54*	-25.69
	2412.0(Pk)	65.69	-	-
	2412.0(Av)	62.57	-	-
	3755.5(Pk)	45.62	74	-28.38
	3755.5(Av)	35.33	54	-18.67
	5633.2(Pk)	50.52	74	-23.48
	5633.2(AV)	40.06	54	-13.94

Worst Case Plots:

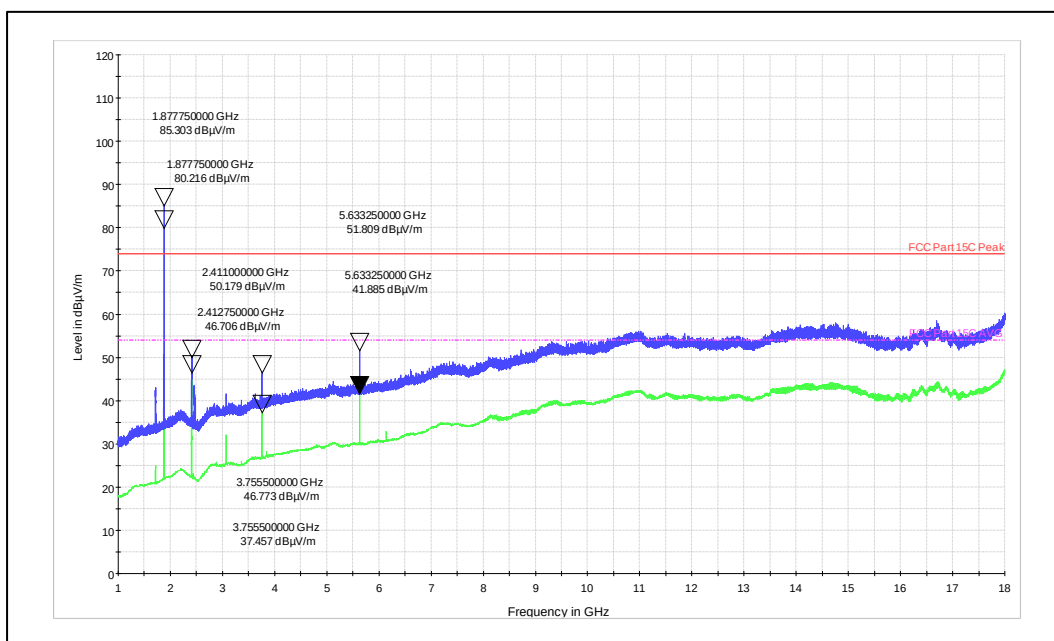


Fundamental Frequency(LTE-1880.0MHz , Wi-Fi 2412MHz)

Polarization: Vertical

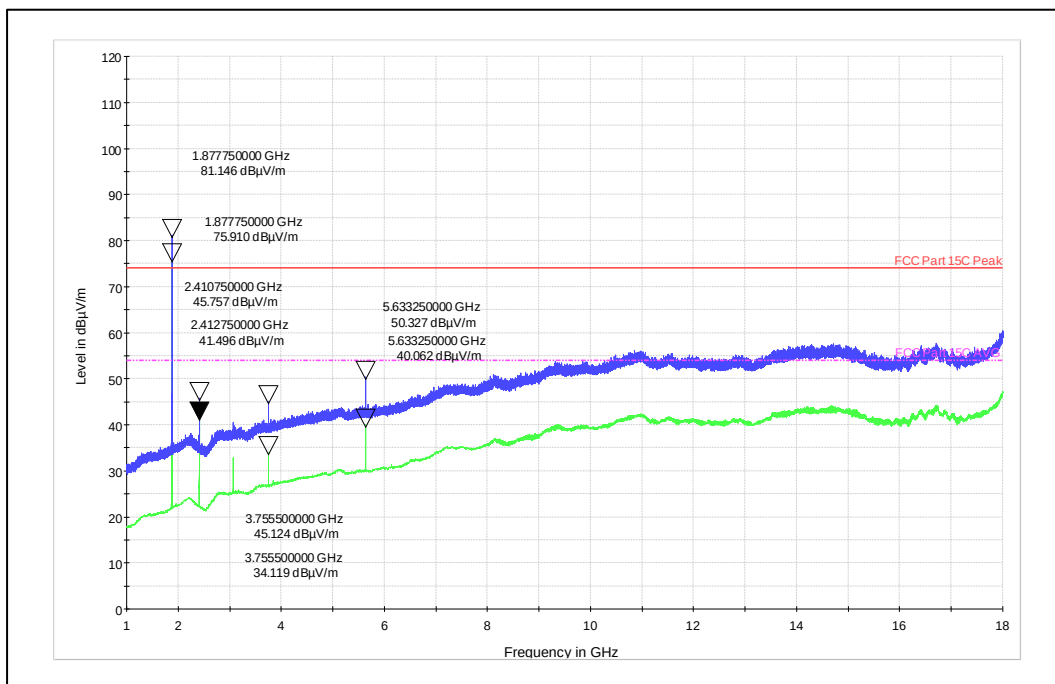


Fundamental Frequency(LTE-1880.0MHz , Wi-Fi 2412MHz) Polarization: Horizontal



Frequency range: 1GHz to 18GHz

Polarization: Vertical



Frequency range: 1GHz to 18GHz

Polarization: Horizontal

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9 Conducted Spurious Emission Test on AC Power Line

Result

Pass

Test Specification : FCC Part 15 Section 15.207 / RSS Gen Issue 5 Section 8.8
Test Method : ANSI C 63.10-2013
Testing Location : Screened room
Measurement Bandwidth : 9kHz
Frequency Range : 150kHz – 30MHz
Supply Voltage : 110VAC,60Hz
Test Method : Refer TEST METHODOLOGY

***Note: The product has tested with AC to DC adapter**

Limits of section 15.207

Frequency of emission (MHz)	QP Limit (dBμV)	AV Limit (dBμV/m)
0.15 – 0.5	66 – 56*	56 – 46*
0.5 – 5	56	46
5 – 30	60	50

* Decreases with the logarithm of the frequency

Test Conditions:

Normal Temperature = +24°C Voltage (V norm) = 110V AC (5.0V DC through AC to DC Adapter)

Relative Humidity = 64%

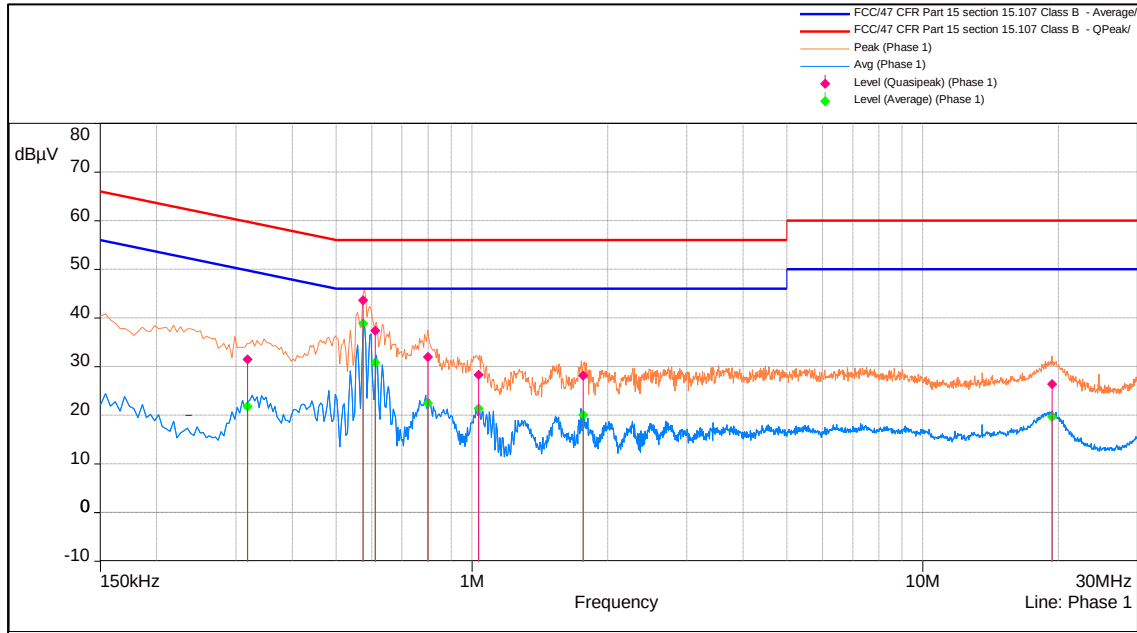
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Test Result:

Power: 110V 60Hz_LINE



Line Graph

Quasipeak (15)										
Frequency (MHz)	SR	Level (dBμV)	Limit (dBμV)	Margin (dB)	Pos	Measuring time	RBW	Meas Time	Comments	Correction (dB)
0.57515	1	43.67	56	-12.33	Phase 1	1	9k	0.02	Pass	20.22
0.61195	1	37.43	56	-18.57	Phase 1	1	9k	0.02	Pass	20.28
0.7962	1	31.98	56	-24.02	Phase 1	1	9k	0.02	Pass	20.61
1.03435	1	28.37	56	-27.63	Phase 1	1	9k	0.02	Pass	20.42
1.76485	1	28.2	56	-27.8	Phase 1	1	9k	0.02	Pass	20.48
0.3187	1	31.48	59.76	-28.28	Phase 1	1	9k	0.02	Pass	20.06
19.33855	1	26.43	60	-33.57	Phase 1	1	9k	0.02	Pass	20.2

Line Table

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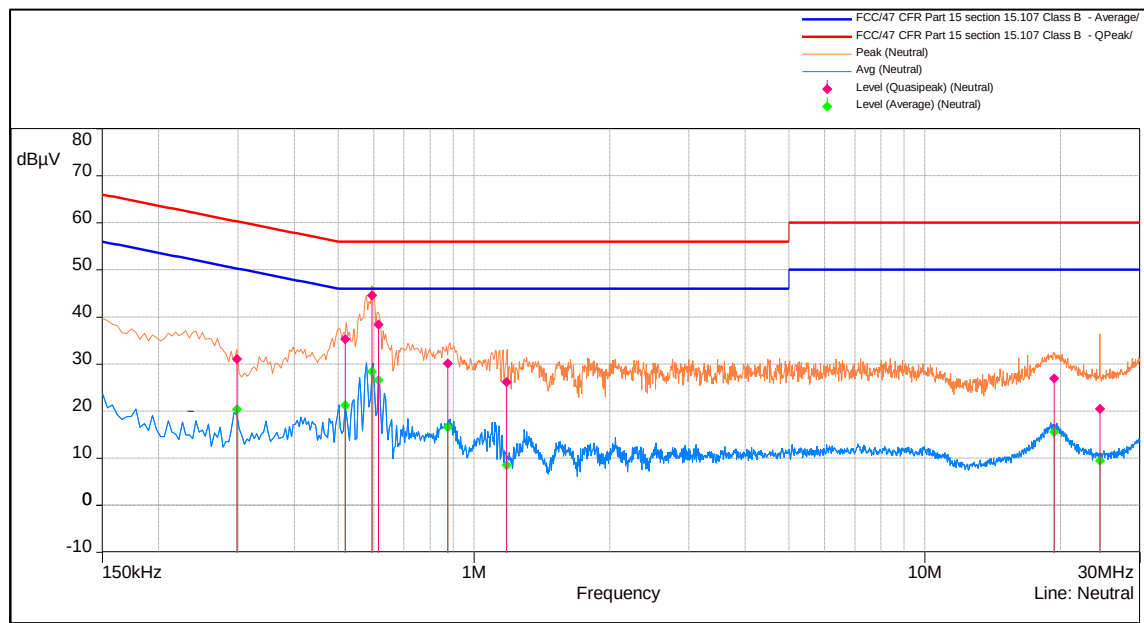
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Average (15)										
Frequency (MHz)	S R	Level (dBμV)	Limit (dBμV)	Margin (dB)	Pos	Measur ing time	RBW	Meas .Time	Com ment s	Correction (dB)
0.57515	1	38.96	46	-7.04	Phase 1	1	9k	0.02	Pass	20.22
0.61195	1	30.86	46	-15.14	Phase 1	1	9k	0.02	Pass	20.28
0.7962	1	22.48	46	-23.52	Phase 1	1	9k	0.02	Pass	20.61
1.03435	1	21.44	46	-24.56	Phase 1	1	9k	0.02	Pass	20.42
1.76485	1	20.13	46	-25.87	Phase 1	1	9k	0.02	Pass	20.48
0.3187	1	21.86	49.76	-27.9	Phase 1	1	9k	0.02	Pass	20.06
19.33855	1	19.66	50	-30.34	Phase 1	1	9k	0.02	Pass	20.2

Line Table

Power: 110V 60Hz_NEUTRAL



Neutral Graph

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Quasipeak (15)										
Frequency (MHz)	SR	Level (dBµV)	Limit (dBµV)	Margin (dB)	Pos	Measuring time	RBW	Meas Time	Comments	Correction (dB)
0.5924	2	44.61	56	-11.39	Neutral	1	9k	0.02	Pass	20.39
0.6155	2	38.38	56	-17.62	Neutral	1	9k	0.02	Pass	20.43
0.51795	2	35.29	56	-20.71	Neutral	1	9k	0.02	Pass	20.27
0.8734	2	30.1	56	-25.9	Neutral	1	9k	0.02	Pass	20.66
0.29665	2	31.06	60.3	-29.24	Neutral	1	9k	0.02	Pass	19.96
1.1833	2	26.16	56	-29.84	Neutral	1	9k	0.02	Pass	20.51
19.35055	2	26.98	60	-33.02	Neutral	1	9k	0.02	Pass	20.44
24.44805	2	20.51	60	-39.49	Neutral	1	9k	0.02	Pass	20.57

Neutral Table

Average (15)										
Frequency (MHz)	SR	Level (dBµV)	Limit (dBµV)	Margin (dB)	Pos	Measuring time	RBW	Meas. Time	Comments	Correction (dB)
0.5924	2	28.4	46	-17.6	Neutral	1	9k	0.02	Pass	20.39
0.6155	2	26.64	46	-19.36	Neutral	1	9k	0.02	Pass	20.43
0.51795	2	21.26	46	-24.74	Neutral	1	9k	0.02	Pass	20.27
0.8734	2	16.59	46	-29.41	Neutral	1	9k	0.02	Pass	20.66
0.29665	2	20.42	50.3	-29.88	Neutral	1	9k	0.02	Pass	19.96
19.35055	2	15.6	50	-34.4	Neutral	1	9k	0.02	Pass	20.44
1.1833	2	8.51	46	-37.49	Neutral	1	9k	0.02	Pass	20.51
24.44805	2	9.48	50	-40.52	Neutral	1	9k	0.02	Pass	20.57

Neutral Table

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11 Power level used for testing

Wi-Fi 2.4GHz

802.11b_1Mbps		802.11g_6Mbps		802.11n_HT20_MCS0	
Channel Frequency (MHz)	Power level	Channel Frequency (MHz)	Power level	Channel Frequency (MHz)	Power level
2412	13	2412	16	2412	16
2442	13	2442	16	2442	16
2462	13	2462	16	2462	16
802.11b_11Mbps		802.11g_54Mbps		802.11n_HT20_MCS7	
Channel Frequency (MHz)	Power level	Channel Frequency (MHz)	Power level	Channel Frequency (MHz)	Power level
2412	13	2412	16	2412	16
2442	13	2442	16	2442	16
2462	13	2462	16	2462	16

*****END OF TEST REPORT*****