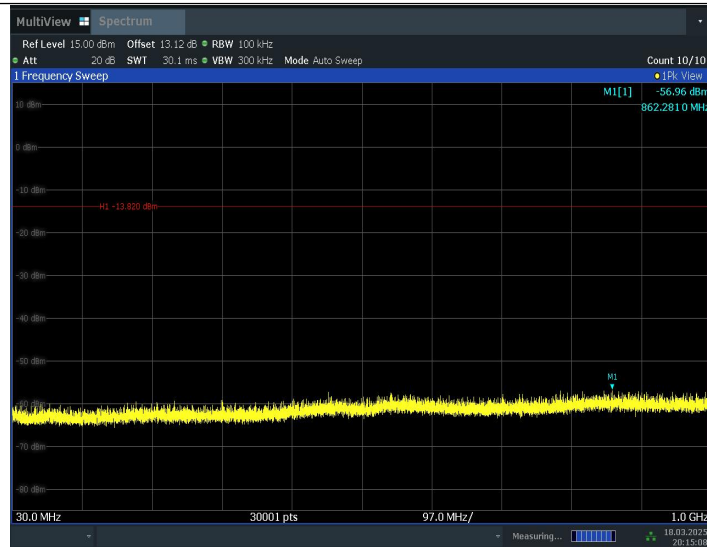
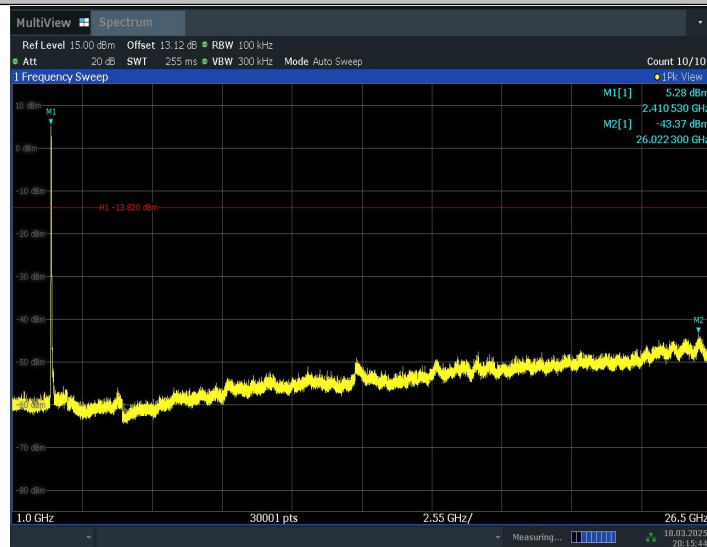




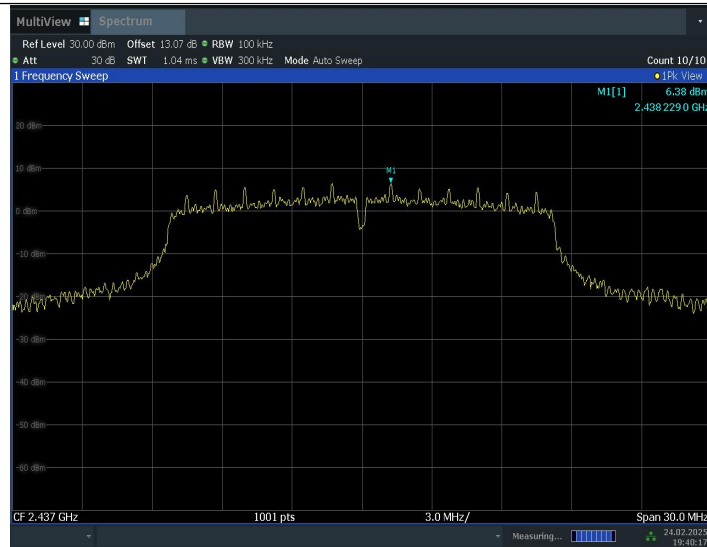
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11G_2412_1000~26500



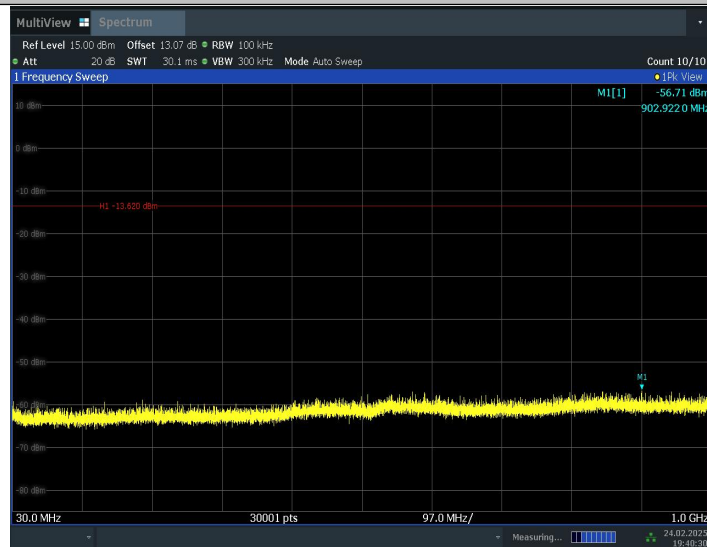
20:15:45 18.03.2025

11G_2437_0~Reference



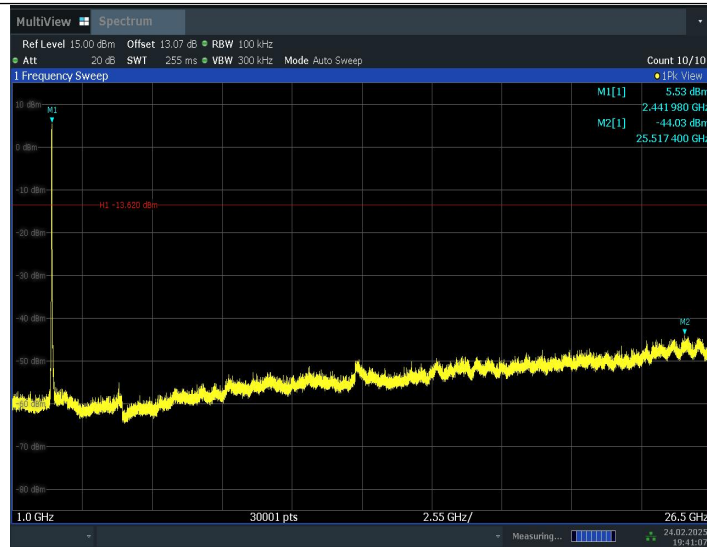
19:40:18 24.02.2025

11G_2437_30~1000

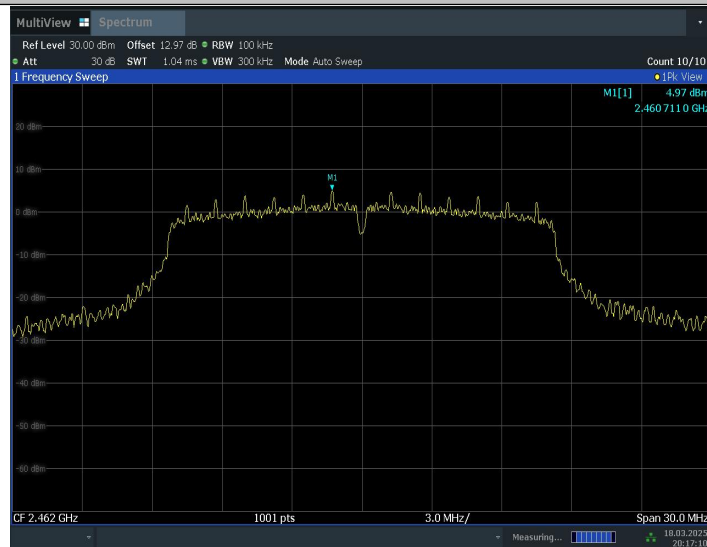


19:40:31 24.02.2025

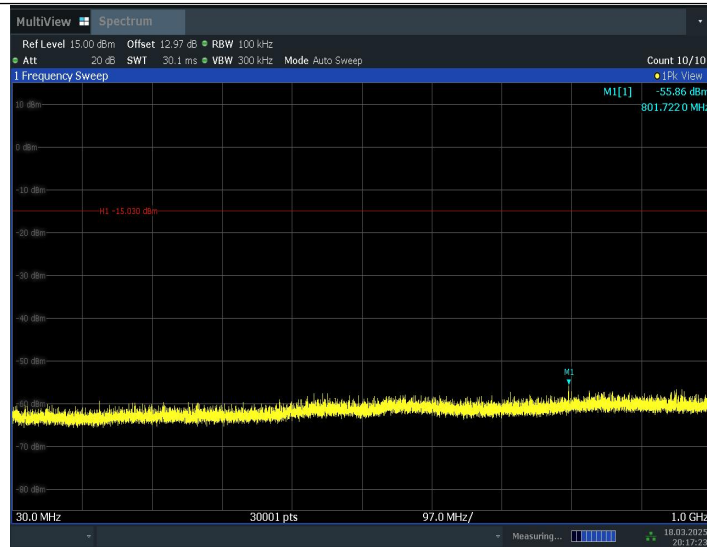
11G_2437_1000~26500



11G_2462_0~Reference

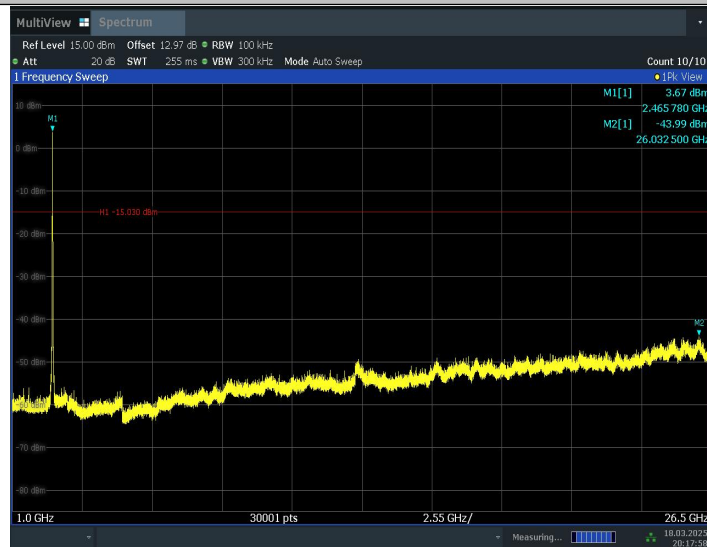


11G_2462_30~1000



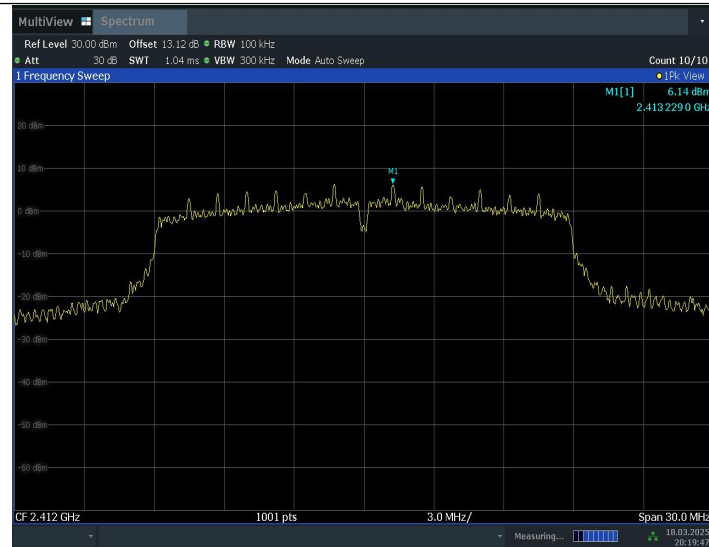
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11G_2462_1000~26500



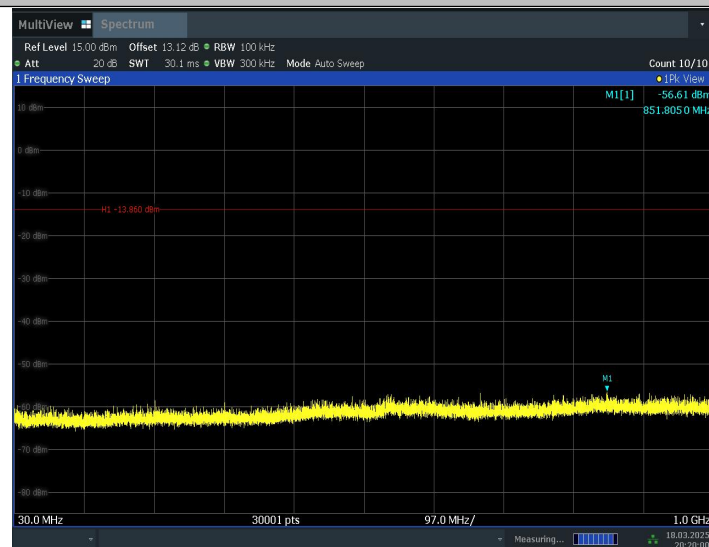
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11N20SISO_2412_0~Reference



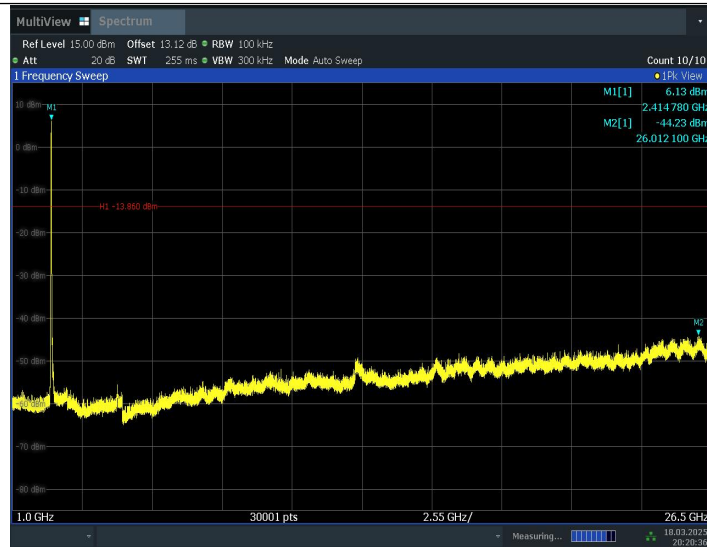
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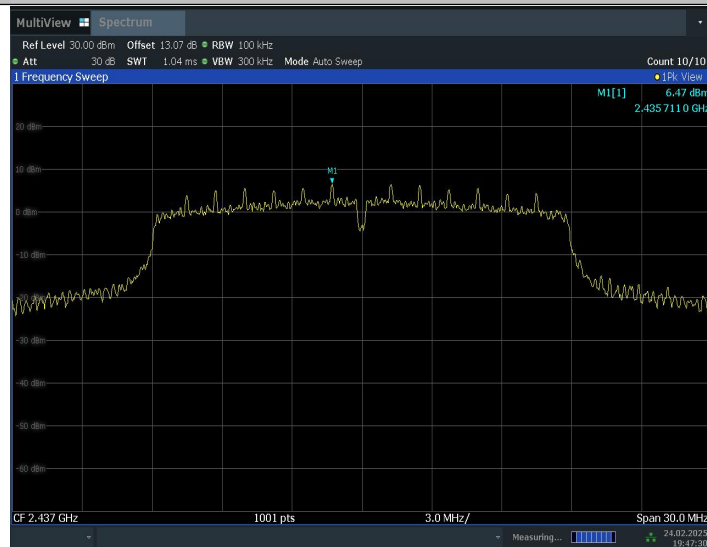
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11N20SISO_2412_1000~26500



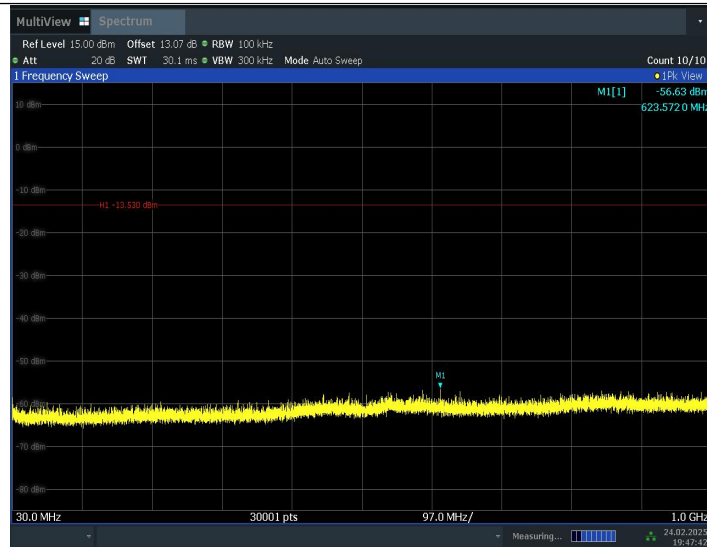
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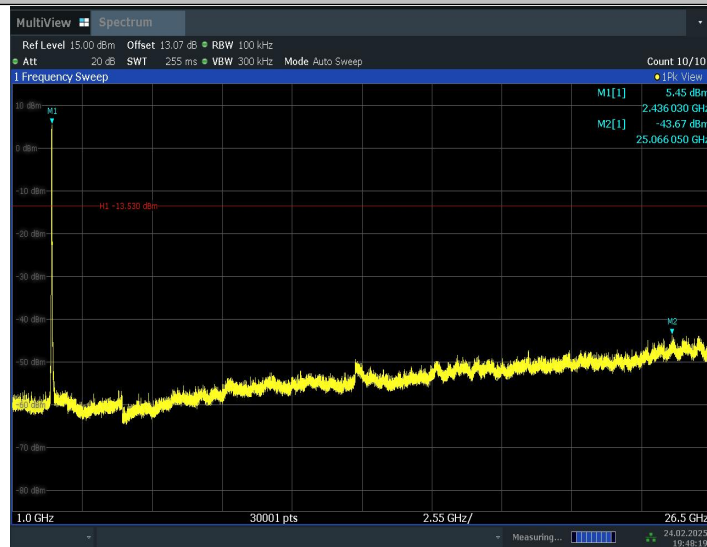


19:47:30 24.02.2025

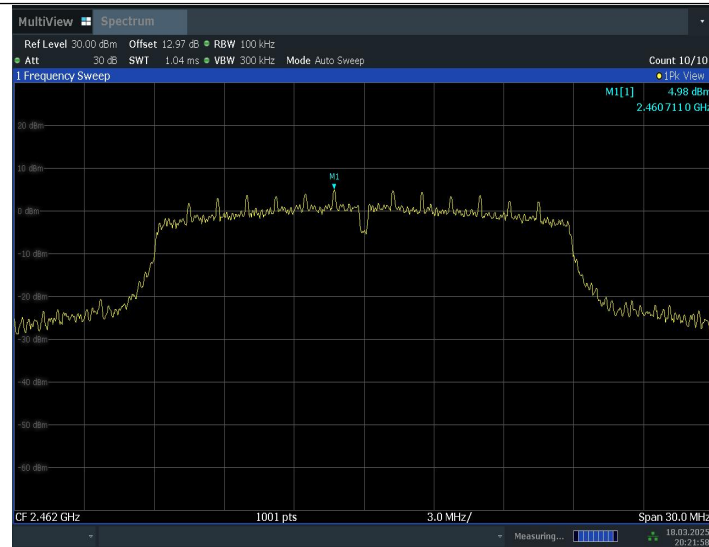
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11N20SISO_2437_1000~26500

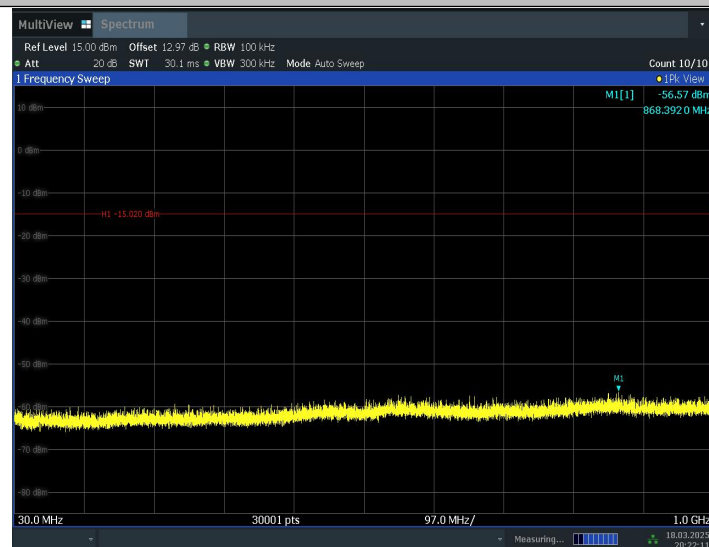


11N20SISO_2462_0~Reference



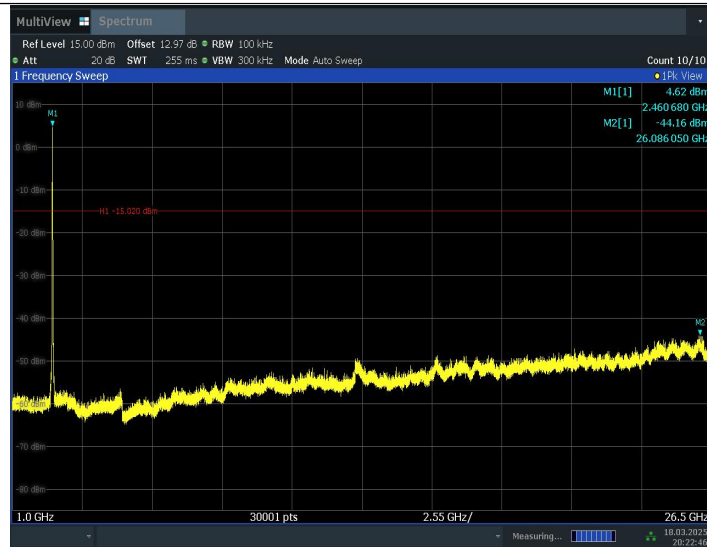
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11N20SISO_2462_30~1000

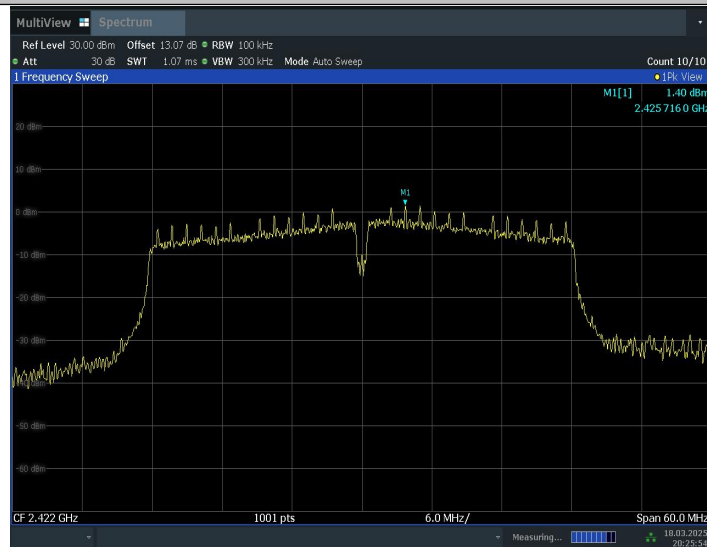


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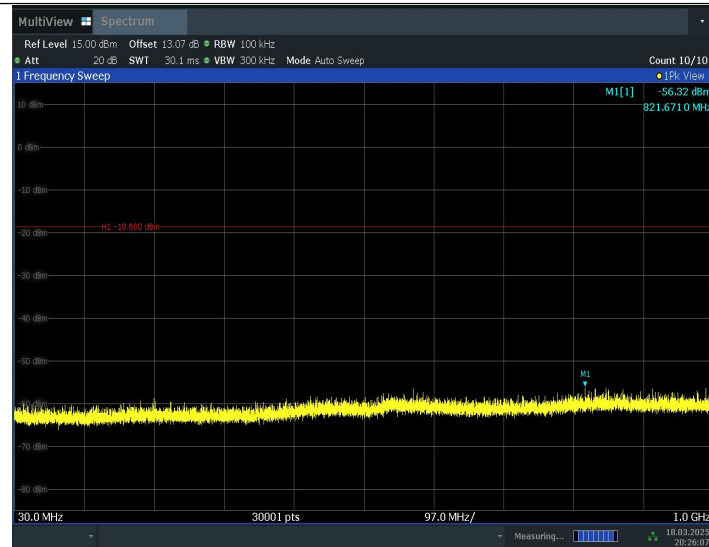
11N20SISO_2462_1000~26500



11N40SISO_2422_0~Reference

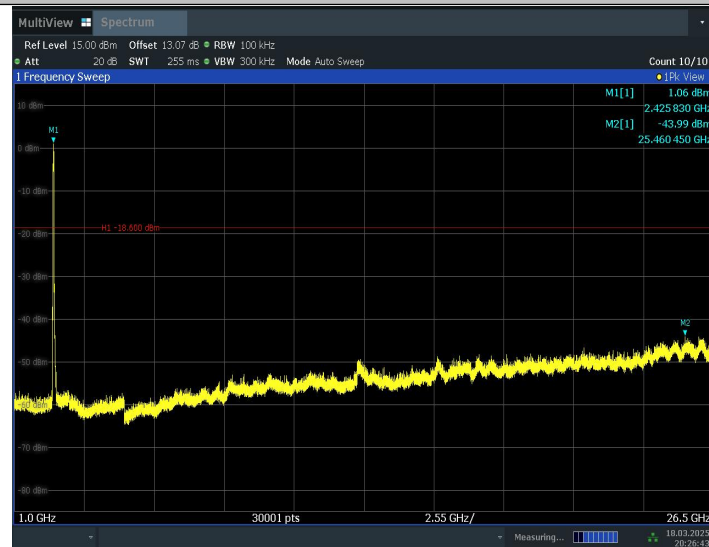


11N40SISO_2422_30~1000



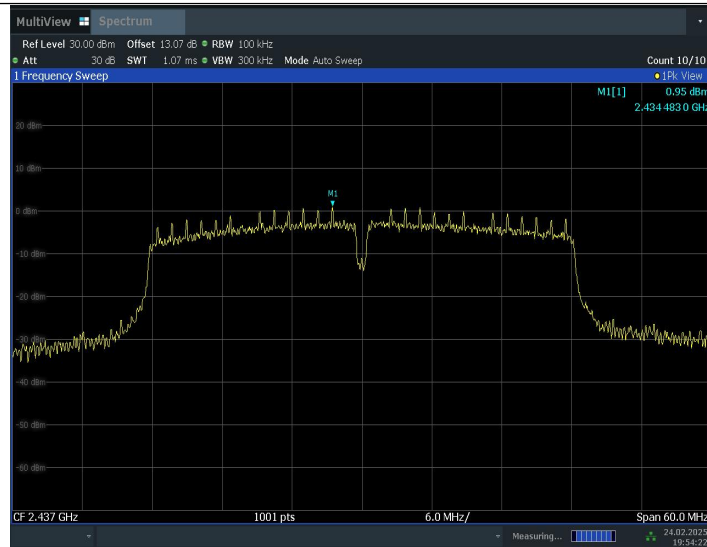
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11N40SISO_2422_1000~26500



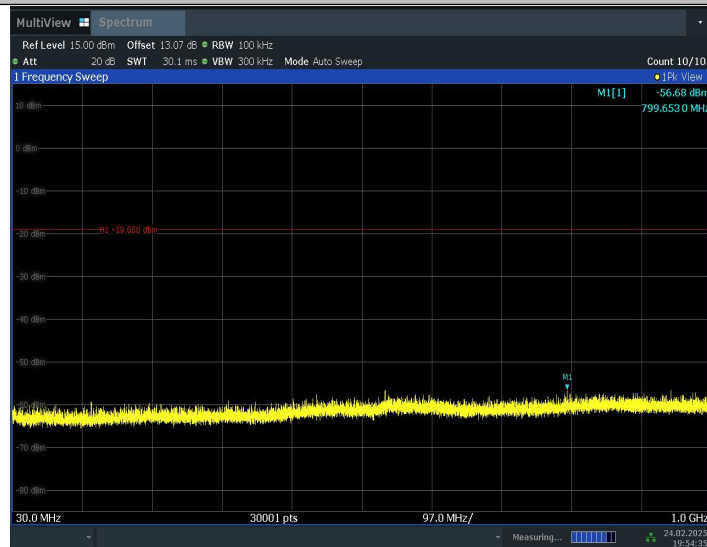
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11N40SISO_2437_0~Reference



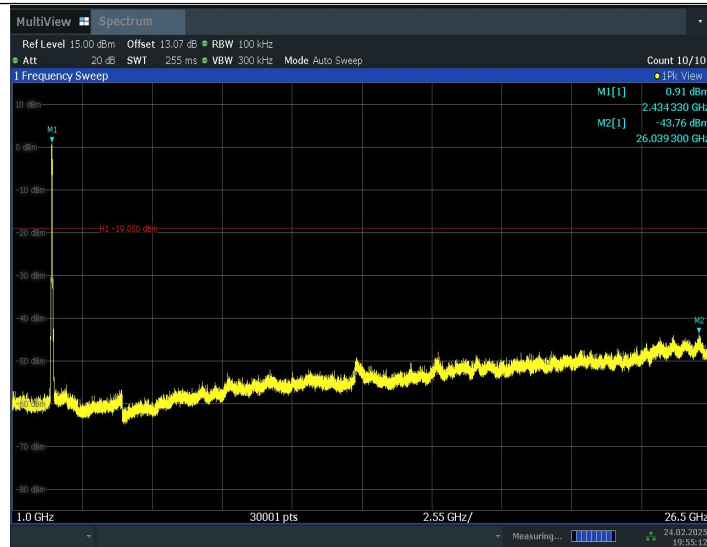
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11N40SISO_2437_30~1000



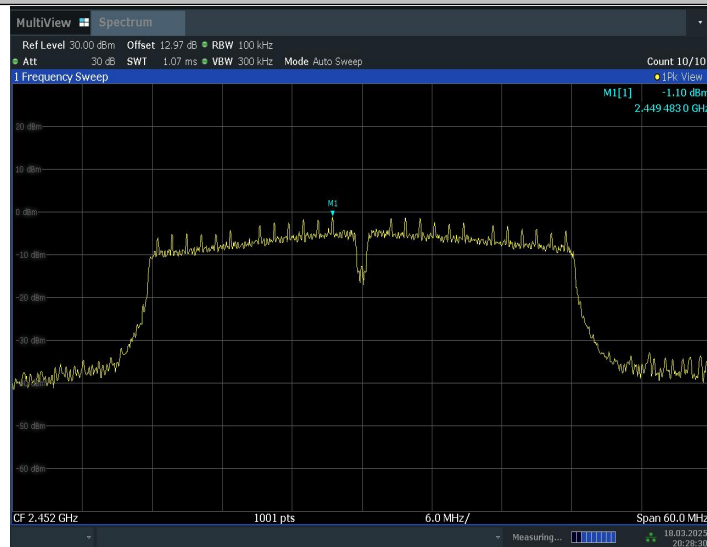
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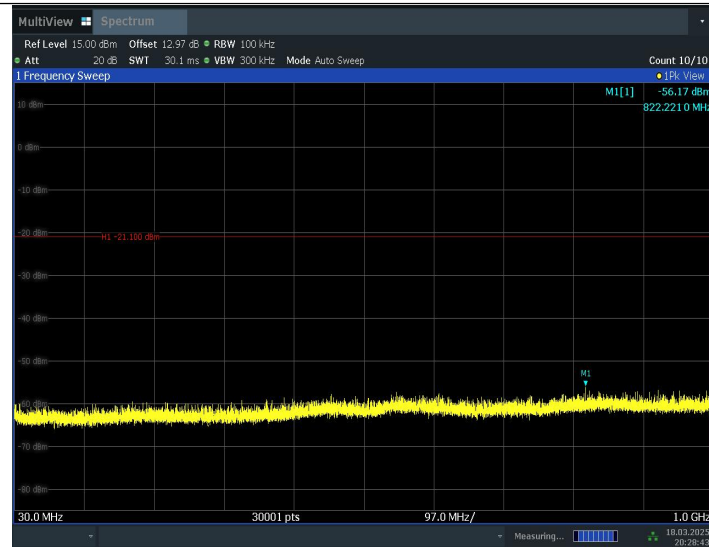
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11N40SISO_2452_0~Reference



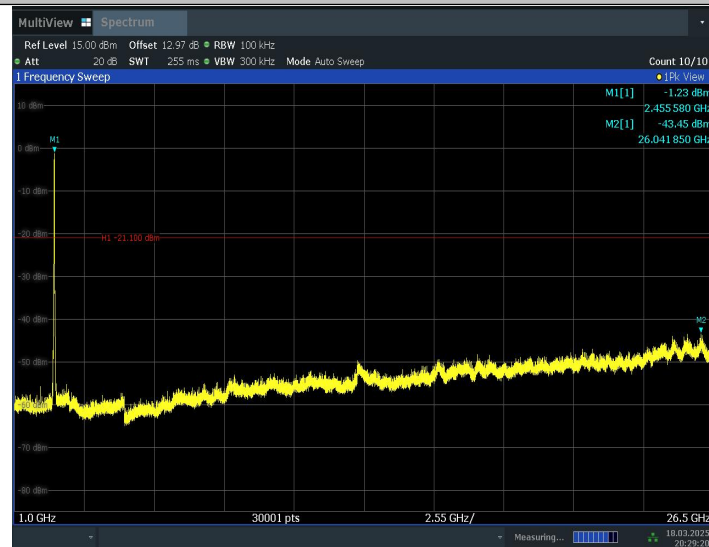
20:28:31 18.03.2025

11N40SISO_2452_30~1000



20:28:44 18.03.2025

11N40SISO_2452_1000~26500



20:29:20 18.03.2025

Conclusion: Pass

A.7. Radiated Unwanted Emission

Limits

Measurement Limit

Standard	Limit
FCC 47 CFR Part 15.247, 15.205, 15.209	20dB below peak output power

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

Limit in restricted band

Frequency (MHz)	Field strength($\mu\text{V/m}$)	Measurement distance (m)
0.009 - 0.490	$2400/F(\text{kHz})$	300
0.490 - 1.705	$24000/F(\text{kHz})$	30
1.705 – 30.0	30	30

Frequency of emission (MHz)	Field strength ($\mu\text{V/m}$)	Field strength (dBuV/m)	Measurement distance (m)
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Note: When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor.

Test setup

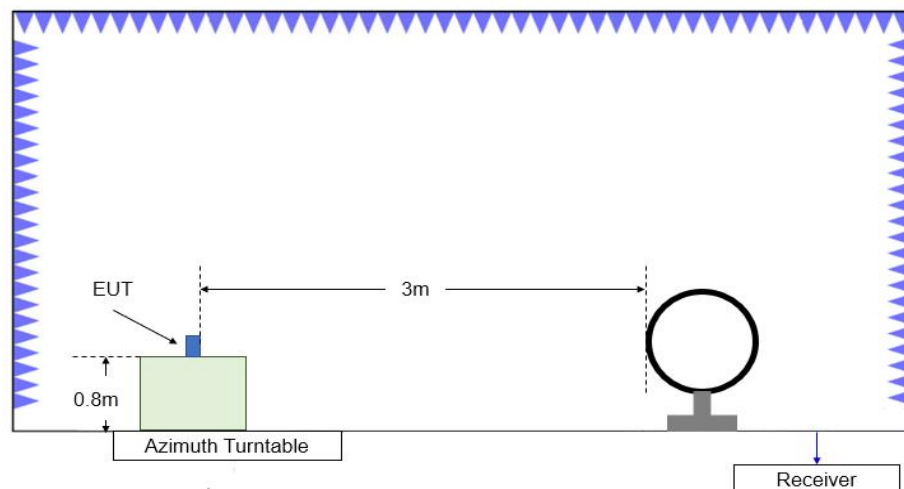


Figure A.2.1. Test Site Diagram (9kHz-30MHz)

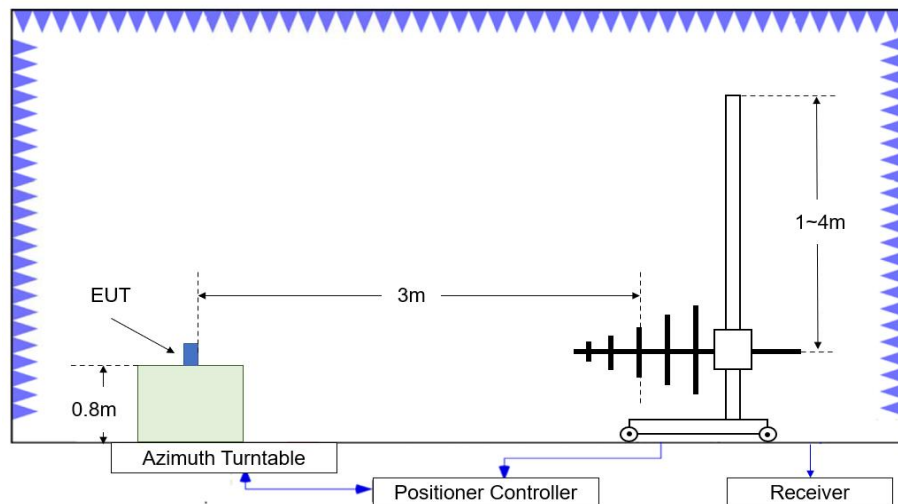


Figure A.2.2. Test Site Diagram (30MHz-1GHz)

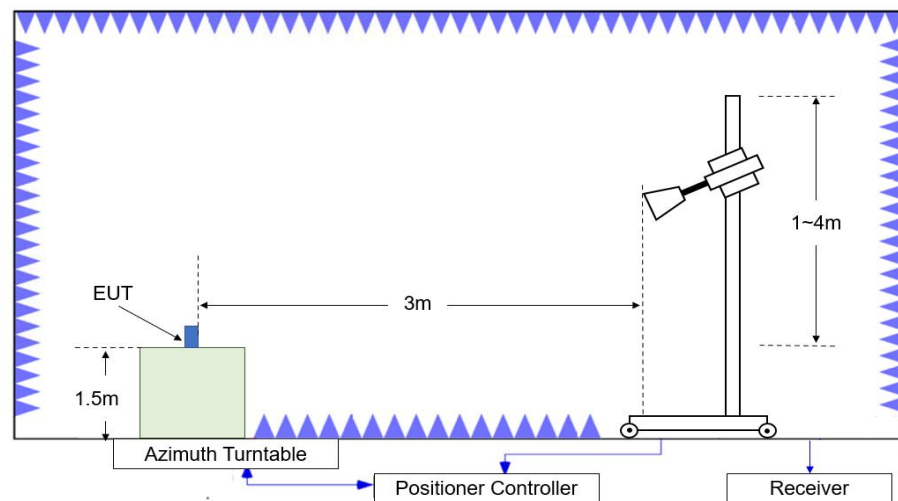


Figure A.2.3. Test Site Diagram (1GHz-40GHz)

Test Procedures

Radiated unwanted emissions from the EUT were measured according to ANSI C63.10.

Test setting

Frequency of emission (MHz)	RBW/VBW	Sweep Time(s)
30-1000	100kHz/300kHz	5
1000-3000	1MHz/3MHz	15
3000-18000	1MHz/3MHz	40
18000-26500	1MHz/3MHz	20

Sample Calculation

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.

P_{Mea} is the field strength recorded from the instrument.

The measurement results are obtained as described below:

$$\text{Result} = P_{\text{Mea}} + A_{\text{Rpl}} = P_{\text{Mea}} + \text{Cable Loss} + \text{Antenna Factor}$$

Test note

1. The EUT is operating at its maximum duty cycle and its maximum power control level.
2. Investigation has been done on all modes and modulations/data rates. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.
3. Spurious emissions for all channels were investigated and almost the same below 1GHz. According to FCC 47 CFR §15.31, emission levels are not report much lower than the limit by over 20dB
4. Measurement frequencies were performed from 9 kHz to the 10th harmonic of highest fundamental frequency or 40GHz, whichever is lower.

Test Result

Peak

802.11b

Ch1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
2387.900	54.16	-24.78	31.95	46.99	74.00	19.84	H
2388.200	54.51	-24.78	31.95	47.33	74.00	19.49	H
4824.000	48.39	-31.64	34.30	45.73	74.00	25.61	V
7236.000	42.03	-29.88	35.60	36.30	74.00	31.98	H
9648.000	45.36	-27.61	36.80	36.17	74.00	28.64	V
12060.000	45.93	-26.48	38.72	33.69	74.00	28.07	V

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
2410.800	55.89	-24.93	32.04	48.78	74.00	18.11	H
2462.000	55.55	-24.59	32.20	47.94	74.00	18.45	V
4984.000	49.82	-31.08	34.10	46.80	74.00	24.18	V
7311.000	41.73	-29.59	35.78	35.54	74.00	32.27	V
9748.000	43.69	-28.45	37.09	35.05	74.00	30.31	H
12185.000	45.82	-26.25	38.71	33.35	74.00	28.18	V

Ch11

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
2483.500	54.95	-24.56	32.20	47.32	74.00	19.05	H
2484.250	55.13	-24.55	32.20	47.47	74.00	18.87	H

4923.500	43.00	-31.10	34.15	39.94	74.00	31.00	V
7386.000	41.48	-29.20	35.63	35.06	74.00	32.52	V
9848.000	44.08	-27.66	37.10	34.64	74.00	29.92	V
12310.000	46.97	-25.89	38.79	34.07	74.00	27.03	V

802.11g

Ch1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
2389.100	68.14	-24.77	31.96	60.95	74.00	5.86	H
2389.600	70.01	-24.76	31.96	62.81	74.00	3.99	H
4825.000	46.05	-31.63	34.30	43.37	74.00	27.95	V
7236.000	43.07	-29.88	35.60	37.35	74.00	30.93	H
9648.000	44.92	-27.61	36.80	35.73	74.00	29.08	V
12060.000	45.46	-26.48	38.72	33.22	74.00	28.54	H

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
2364.000	52.91	-25.11	31.86	46.16	74.00	21.09	V
2502.000	52.85	-24.72	32.21	45.36	74.00	21.15	V
4874.000	44.96	-32.24	34.25	42.95	74.00	29.04	H
7311.000	42.86	-29.59	35.78	36.67	74.00	31.14	H
9748.000	43.85	-28.45	37.09	35.21	74.00	30.15	V
12185.000	45.54	-26.25	38.71	33.07	74.00	28.46	V

Ch11

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
2483.500	70.33	-24.56	32.20	62.70	74.00	3.67	H
2483.850	68.90	-24.56	32.20	61.25	74.00	5.10	H
4921.500	42.67	-31.30	34.16	39.81	74.00	31.33	V
7386.000	41.63	-29.20	35.63	35.20	74.00	32.38	H
9848.000	43.25	-27.66	37.10	33.81	74.00	30.76	H
12310.000	46.46	-25.89	38.79	33.56	74.00	27.54	V

802.11n-HT20

Ch1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
2389.300	69.80	-24.77	31.96	62.60	74.00	4.20	V
2389.850	71.04	-24.76	31.96	63.84	74.00	2.96	V
4825.000	44.76	-31.63	34.30	42.08	74.00	29.25	V
7236.000	40.95	-29.88	35.60	35.23	74.00	33.05	H
9648.000	45.28	-27.61	36.80	36.09	74.00	28.72	H
12060.000	45.41	-26.48	38.72	33.17	74.00	28.59	H

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
2382.000	52.43	-24.83	31.93	45.33	74.00	21.57	H
2489.200	52.88	-24.44	32.20	45.12	74.00	21.12	H
4874.000	43.63	-32.24	34.25	41.62	74.00	30.37	V
7311.000	41.62	-29.59	35.78	35.43	74.00	32.38	V
9748.000	44.34	-28.45	37.09	35.70	74.00	29.66	H
12185.000	46.83	-26.25	38.71	34.36	74.00	27.17	H

Ch11

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
2483.600	71.93	-24.56	32.20	64.30	74.00	2.07	V
2483.850	68.69	-24.56	32.20	61.05	74.00	5.31	H
4924.000	41.04	-31.05	34.15	37.94	74.00	32.96	V
7386.000	42.27	-29.20	35.63	35.85	74.00	31.73	H
9848.000	43.97	-27.66	37.10	34.54	74.00	30.03	H
12310.000	46.19	-25.89	38.79	33.29	74.00	27.81	H

802.11n-HT40
Ch3

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
2388.050	67.19	-24.78	31.95	60.02	74.00	6.81	V
2388.750	69.01	-24.77	31.96	61.82	74.00	5.00	H
4844.000	40.35	-31.09	34.30	37.14	74.00	33.65	V
7266.000	42.83	-29.32	35.66	36.49	74.00	31.17	V
9688.000	45.32	-27.26	36.88	35.70	74.00	28.68	H
12110.000	44.74	-27.07	38.79	33.02	74.00	29.26	H

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
2368.000	52.50	-25.10	31.87	45.73	74.00	21.50	H
2510.800	53.15	-24.82	32.24	45.73	74.00	20.85	V
4874.000	40.77	-32.24	34.25	38.76	74.00	33.23	V
7311.000	41.52	-29.59	35.78	35.33	74.00	32.48	H
9748.000	44.83	-28.45	37.09	36.19	74.00	29.17	H
12185.000	46.39	-26.25	38.71	33.92	74.00	27.61	V

Ch9

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
2484.100	66.93	-24.55	32.20	59.28	74.00	7.07	V
2485.000	68.07	-24.53	32.20	60.40	74.00	5.93	H
4904.000	41.67	-31.38	34.19	38.86	74.00	32.33	H
7356.000	43.26	-29.01	35.69	36.58	74.00	30.74	H
9808.000	42.84	-28.28	37.02	34.10	74.00	31.16	V
12260.000	46.64	-26.04	38.76	33.91	74.00	27.36	H

Average
802.11b

Ch1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
2384.000	44.14	-24.81	31.94	37.01	54.00	9.87	V
2388.000	44.91	-24.78	31.95	37.73	54.00	9.09	V
4824.000	46.01	-31.64	34.30	43.35	54.00	7.99	V
7236.000	32.22	-29.88	35.60	26.49	54.00	21.79	H
9648.000	36.33	-27.61	36.80	27.14	54.00	17.67	H
12060.000	36.88	-26.48	38.72	24.64	54.00	17.12	V

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
2400.800	43.55	-24.65	32.00	36.19	54.00	10.45	V
2478.400	43.90	-24.65	32.20	36.36	54.00	10.10	V
4874.000	48.08	-32.24	34.25	46.07	54.00	5.92	V
7311.000	32.76	-29.59	35.78	26.57	54.00	21.24	H
9748.000	34.41	-28.45	37.09	25.77	54.00	19.59	V
12185.000	37.05	-26.25	38.71	24.59	54.00	16.95	V

Ch11

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
2483.600	49.11	-24.56	32.20	41.47	54.00	4.89	V
2486.400	46.95	-24.50	32.20	39.25	54.00	7.05	V
4923.500	38.10	-31.10	34.15	35.05	54.00	15.90	H
7386.000	32.10	-29.20	35.63	25.68	54.00	21.90	H
9848.000	34.22	-27.66	37.10	24.78	54.00	19.78	V
12310.000	37.49	-25.89	38.79	24.59	54.00	16.51	V

802.11g

Ch1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
2388.800	48.86	-24.77	31.96	41.68	54.00	5.14	V
2389.600	51.17	-24.76	31.96	43.98	54.00	2.83	V
4822.500	36.03	-31.66	34.30	33.39	54.00	17.97	H
7236.000	32.24	-29.88	35.60	26.52	54.00	21.76	V
9648.000	36.14	-27.61	36.80	26.95	54.00	17.86	H
12060.000	36.53	-26.48	38.72	24.29	54.00	17.47	V

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
2402.800	49.12	-24.71	32.01	41.81	54.00	4.88	V
2471.200	49.22	-24.71	32.20	41.73	54.00	4.78	V
4879.000	36.12	-32.28	34.24	34.16	54.00	17.88	V
7311.000	33.19	-29.59	35.78	27.00	54.00	20.81	V
9748.000	34.46	-28.45	37.09	25.82	54.00	19.54	V
12185.000	36.96	-26.25	38.71	24.49	54.00	17.04	V

Ch11

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
2486.000	51.67	-24.51	32.20	43.98	54.00	2.33	V
2486.400	50.45	-24.50	32.20	42.75	54.00	3.55	V
4921.500	34.16	-31.30	34.16	31.30	54.00	19.84	H
7386.000	32.19	-29.20	35.63	25.76	54.00	21.81	V
9848.000	34.07	-27.66	37.10	24.64	54.00	19.93	H
12310.000	37.15	-25.89	38.79	24.25	54.00	16.85	H

802.11n-HT20

Ch1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
2388.800	51.20	-24.77	31.96	44.02	54.00	2.80	V
2389.600	52.29	-24.76	31.96	45.09	54.00	1.72	V
4820.500	34.72	-31.69	34.30	32.11	54.00	19.28	H
7236.000	32.00	-29.88	35.60	26.28	54.00	22.00	H
9648.000	36.12	-27.61	36.80	26.93	54.00	17.88	V
12060.000	36.28	-26.48	38.72	24.03	54.00	17.73	H

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
2398.000	46.05	-24.65	31.99	38.71	54.00	7.95	V
2478.800	45.94	-24.65	32.20	38.39	54.00	8.06	V
4873.000	35.06	-32.24	34.25	33.04	54.00	18.94	V
7311.000	32.22	-29.59	35.78	26.03	54.00	21.78	H
9748.000	34.33	-28.45	37.09	25.69	54.00	19.67	H
12185.000	37.29	-26.25	38.71	24.82	54.00	16.71	H

Ch11

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
2484.800	51.06	-24.54	32.20	43.40	54.00	2.94	V
2486.400	49.34	-24.50	32.20	41.64	54.00	4.67	V
4921.500	34.19	-31.30	34.16	31.33	54.00	19.81	H
7386.000	32.46	-29.20	35.63	26.03	54.00	21.54	V
9848.000	34.03	-27.66	37.10	24.59	54.00	19.97	V
12310.000	36.79	-25.89	38.79	23.89	54.00	17.21	V

802.11n-HT40
Ch3

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
2381.600	44.70	-24.83	31.93	37.60	54.00	9.30	V
2469.600	45.50	-24.71	32.20	38.02	54.00	8.50	V
4844.000	31.97	-31.09	34.30	28.76	54.00	22.04	V
7266.000	32.61	-29.32	35.66	26.27	54.00	21.39	V
9688.000	35.63	-27.26	36.88	26.01	54.00	18.37	V
12110.000	35.71	-27.07	38.79	23.98	54.00	18.30	H

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
2378.400	42.92	-24.88	31.91	35.89	54.00	11.08	V
2504.400	44.00	-24.74	32.22	36.52	54.00	10.00	V
4874.000	31.85	-32.24	34.25	29.84	54.00	22.15	V
7311.000	32.16	-29.59	35.78	25.97	54.00	21.84	V
9748.000	33.89	-28.45	37.09	25.25	54.00	20.11	V
12185.000	36.32	-26.25	38.71	23.85	54.00	17.69	V

Ch9

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
2409.600	43.08	-24.90	32.04	35.94	54.00	10.92	V
2504.800	43.61	-24.75	32.22	36.14	54.00	10.39	V
4904.000	31.79	-31.38	34.19	28.97	54.00	22.21	V
7356.000	32.61	-29.01	35.69	25.93	54.00	21.40	H
9808.000	32.93	-28.28	37.02	24.19	54.00	21.07	H
12260.000	36.94	-26.04	38.76	24.21	54.00	17.07	H

Band edge compliance

802.11b mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11b	1	2.31GHz~2.43GHz---L	Fig.1	P
	11	2.45GHz~2.50GHz---H	Fig.2	P

802.11g mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11g	1	2.31GHz~2.43GHz---L	Fig.3	P
	11	2.45GHz~2.50GHz---H	Fig.4	P

802.11n-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT20)	1	2.31GHz~2.43GHz---L	Fig.5	P
	11	2.45GHz~2.50GHz---H	Fig.6	P

802.11n-HT40 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT40)	3	2.31GHz~2.43GHz---L	Fig.7	P
	9	2.45GHz~2.50GHz---H	Fig.8	P

Test graphs as below:

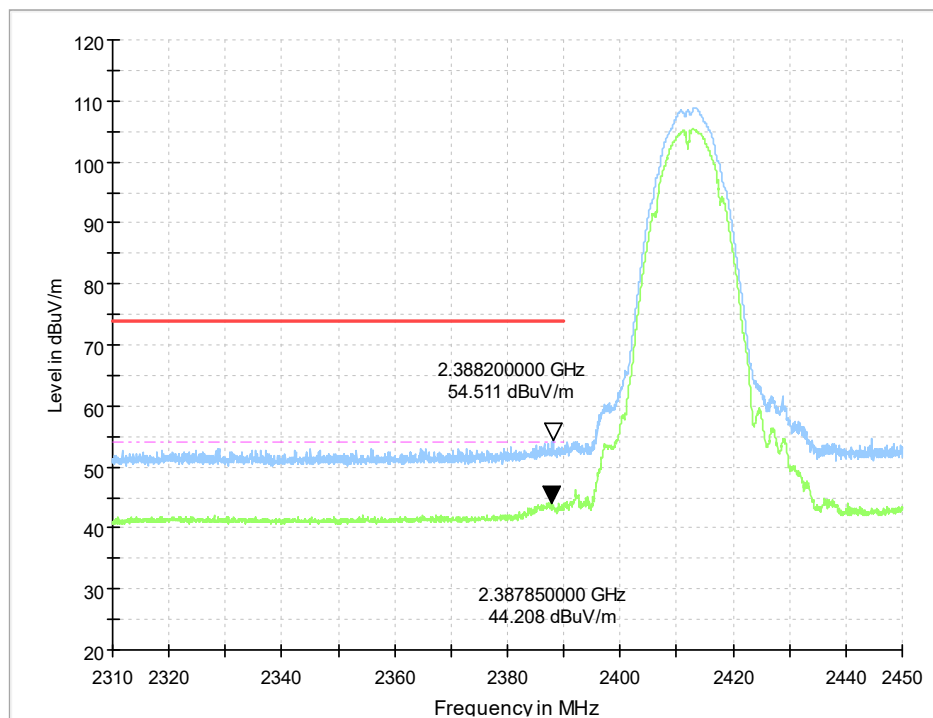


Fig.1 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch1, 2.31 GHz – 2.43GHz

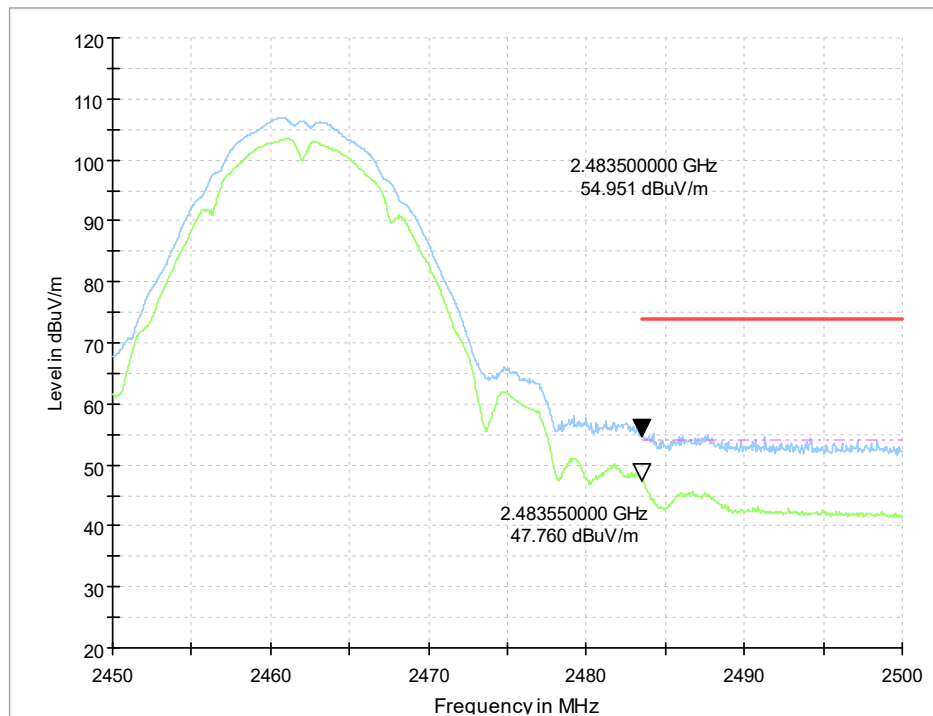


Fig.2 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch11, 2.45 GHz - 2.50GHz

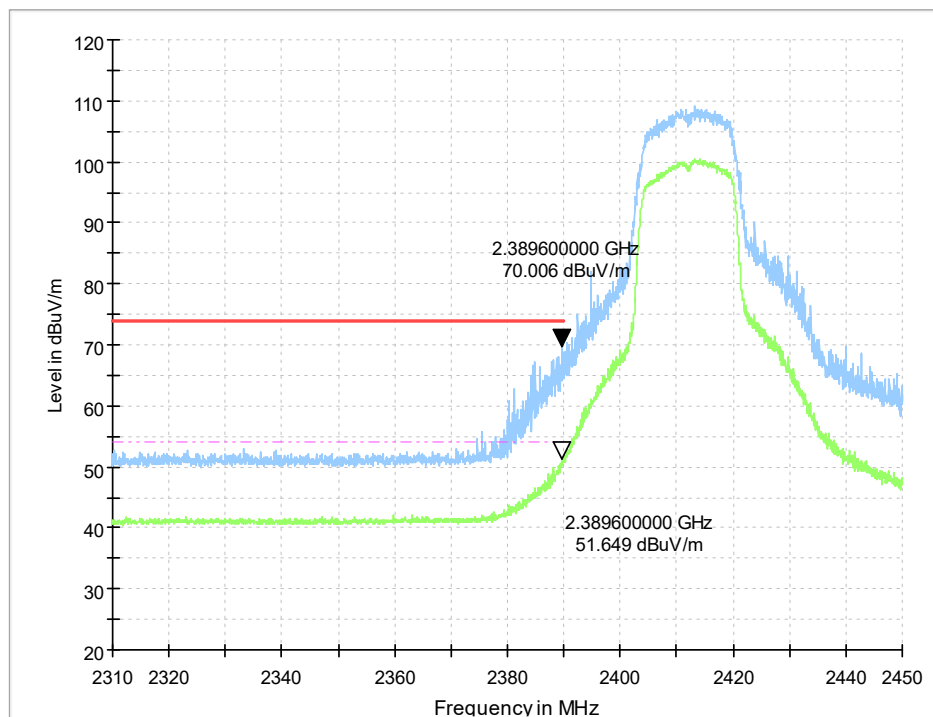


Fig.3 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch1, 2.31 GHz - 2.43GHz

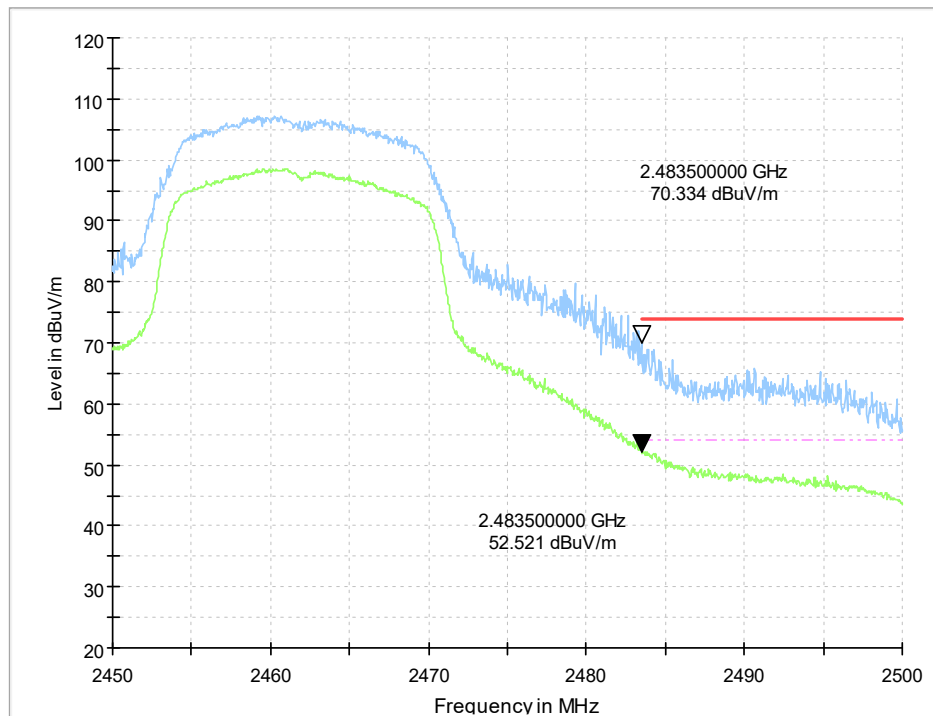


Fig.4 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch11, 2.45 GHz - 2.50GHz

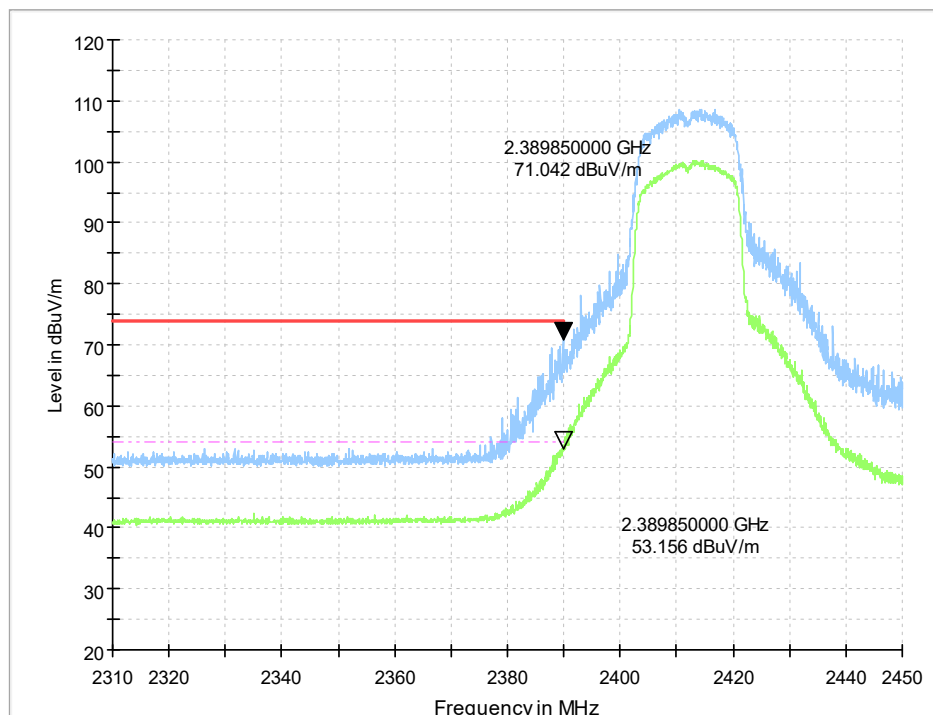


Fig.5 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT20, ch1, 2.31 GHz - 2.43GHz

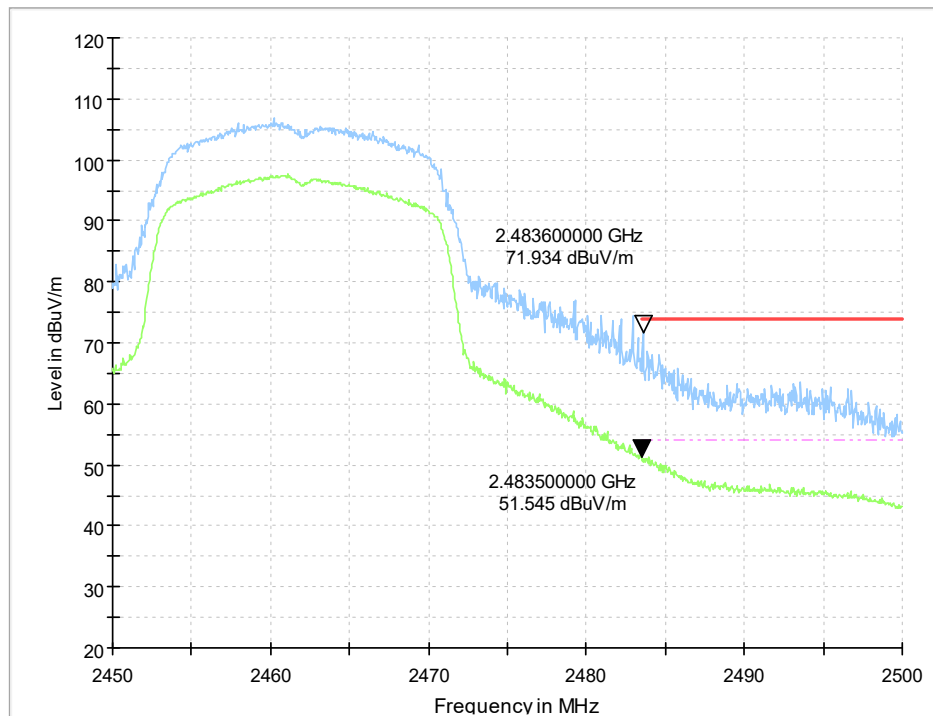


Fig.6 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT20, ch11, 2.45 GHz - 2.50GHz

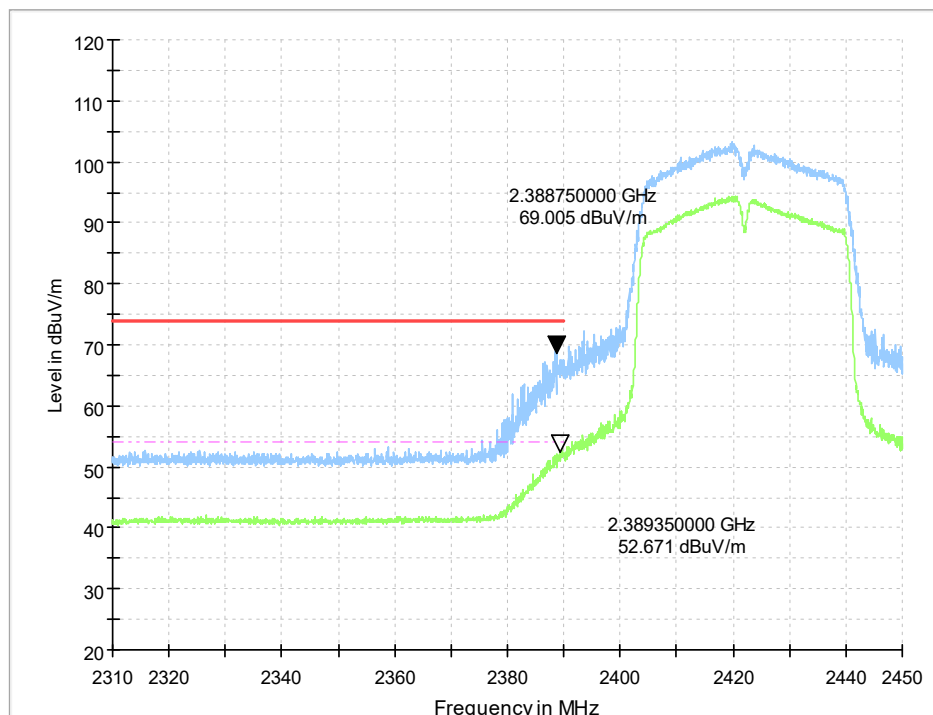


Fig.7 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT40, ch3, 2.31 GHz - 2.43GHz

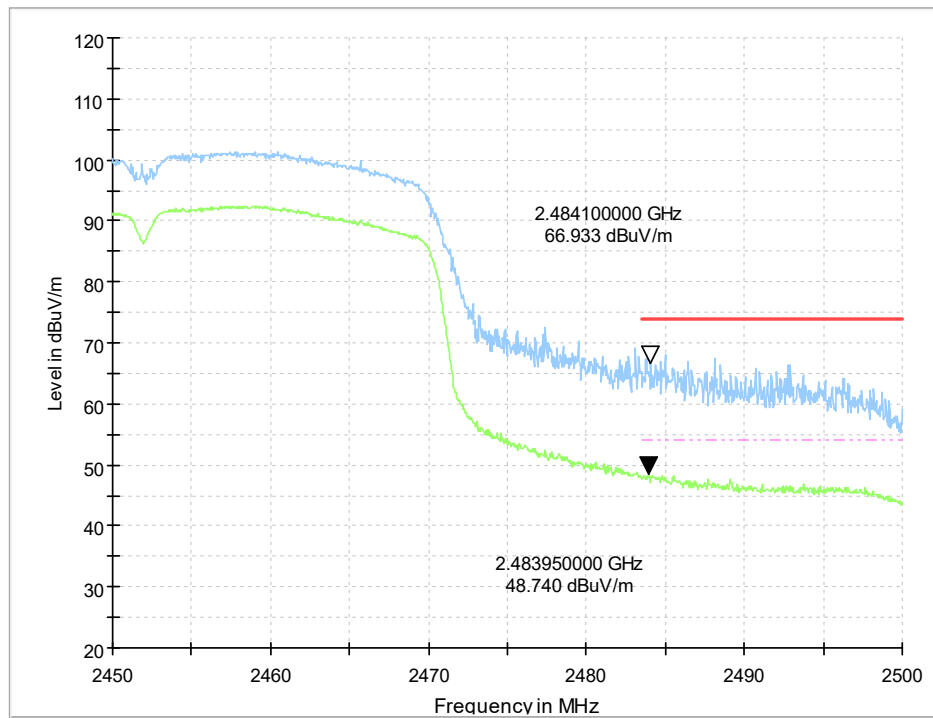


Fig.8 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT40, ch9, 2.45 GHz - 2.50GHz

A.8. AC Power-line Conducted Emission

Summary

All AC line conducted spurious emissions are measured with a receiver connected to a grounded LISN while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for conducted spurious emissions. Only the conducted emissions of the configuration that produced the worst case emissions are reported in this section

Method of Measurement:

See Clause 6.2 of ANSI C63.10 specifically.

See Clause 4 and Clause 5 of ANSI C63.10 generally.

The conducted emissions from the AC port of the EUT are measured in a shielding room. The EUT is connected to a Line Impedance Stabilization Network (LISN). An overview sweep with peak detection was performed. The measurements were performed with a quasi-peak detector and if required, an average detector.

The conducted emission measurements were made with the following detector of the test receiver:
Quasi-Peak / Average Detector.

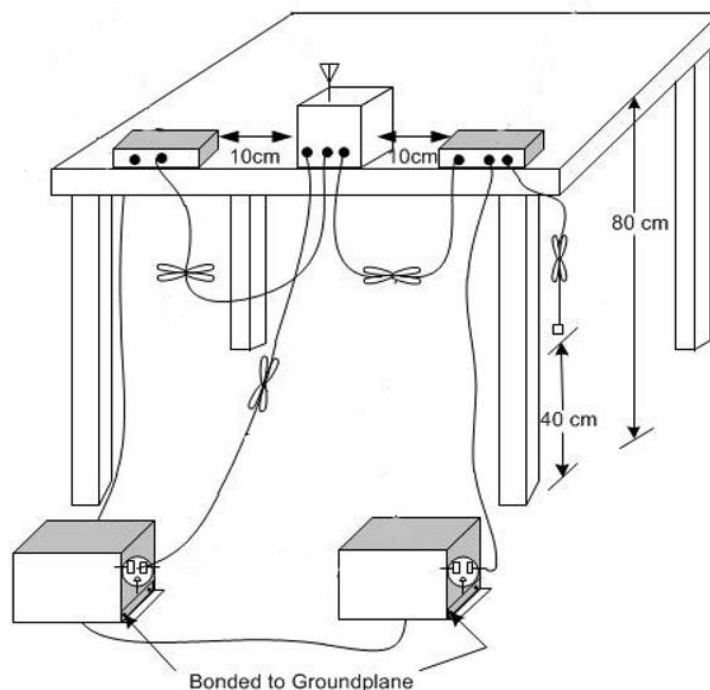
The measurement bandwidth is:

Frequency of Emission (MHz)	RBW/IF bandwidth
0.15-30	9kHz

Test Condition:

Voltage (V)	Frequency (Hz)
120	60

Test setup



Measurement Result and limit:
WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Result (dB μ V)		Conclusion
		With charger		
		802.11b	Idle	
0.15 to 0.5	66 to 56	Fig.9	Fig.10	P
0.5 to 5	56			
5 to 30	60			
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

WLAN (Average Limit)

Frequency range (MHz)	Average Limit (dBμV)	Result (dBμV)		Conclusion
		With charger		
		802.11b	Idle	
0.15 to 0.5	56 to 46	Fig.9	Fig.10	P
0.5 to 5	46			
5 to 30	50			
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

Conclusion: Pass
Test graphs as below:

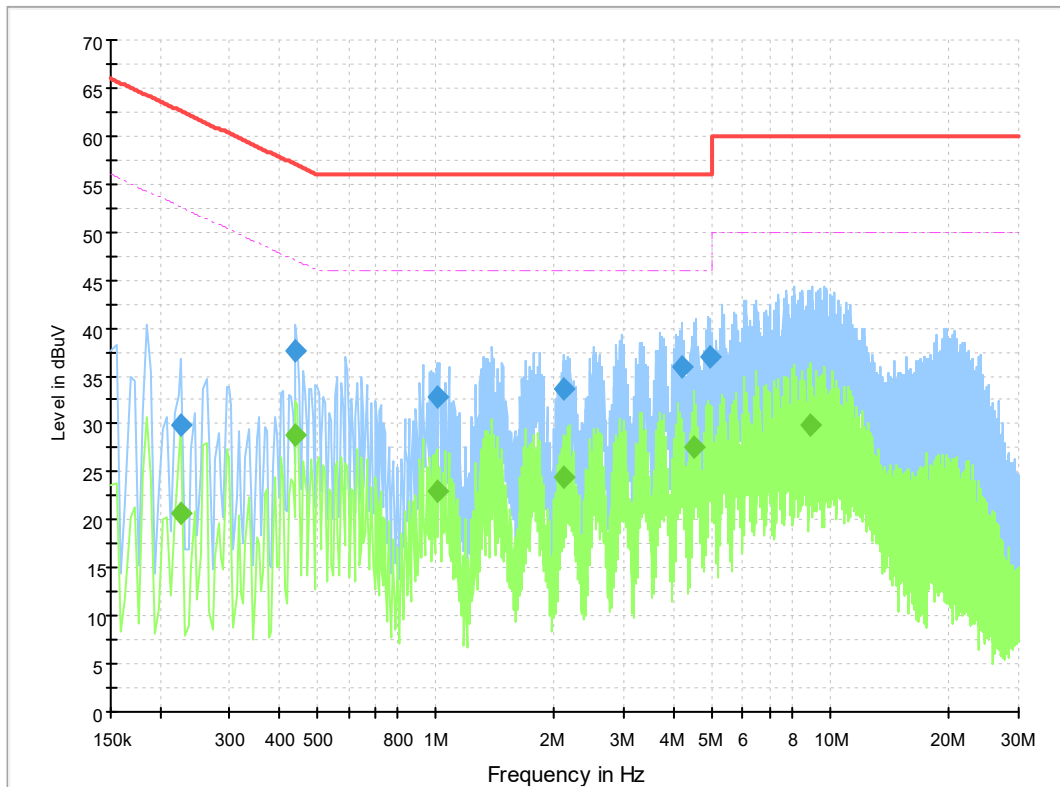


Fig.9 AC Powerline Conducted Emission-802.11b

Note: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.226500	29.9	2000.0	9.000	On	N	20.0	32.7	62.6	
0.442500	37.7	2000.0	9.000	On	L1	20.1	19.3	57.0	
1.005000	32.9	2000.0	9.000	On	L1	19.9	23.1	56.0	
2.116500	33.5	2000.0	9.000	On	L1	19.8	22.5	56.0	
4.186500	35.9	2000.0	9.000	On	L1	19.9	20.1	56.0	
4.929000	36.9	2000.0	9.000	On	L1	19.9	19.1	56.0	

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.226500	20.6	2000.0	9.000	On	L1	20.0	31.9	52.6	
0.442500	28.8	2000.0	9.000	On	L1	20.1	18.2	47.0	
1.005000	23.1	2000.0	9.000	On	L1	19.9	22.9	46.0	
2.112000	24.5	2000.0	9.000	On	L1	19.8	21.5	46.0	
4.528500	27.7	2000.0	9.000	On	L1	19.8	18.3	46.0	
8.889000	29.8	2000.0	9.000	On	L1	19.9	20.2	50.0	

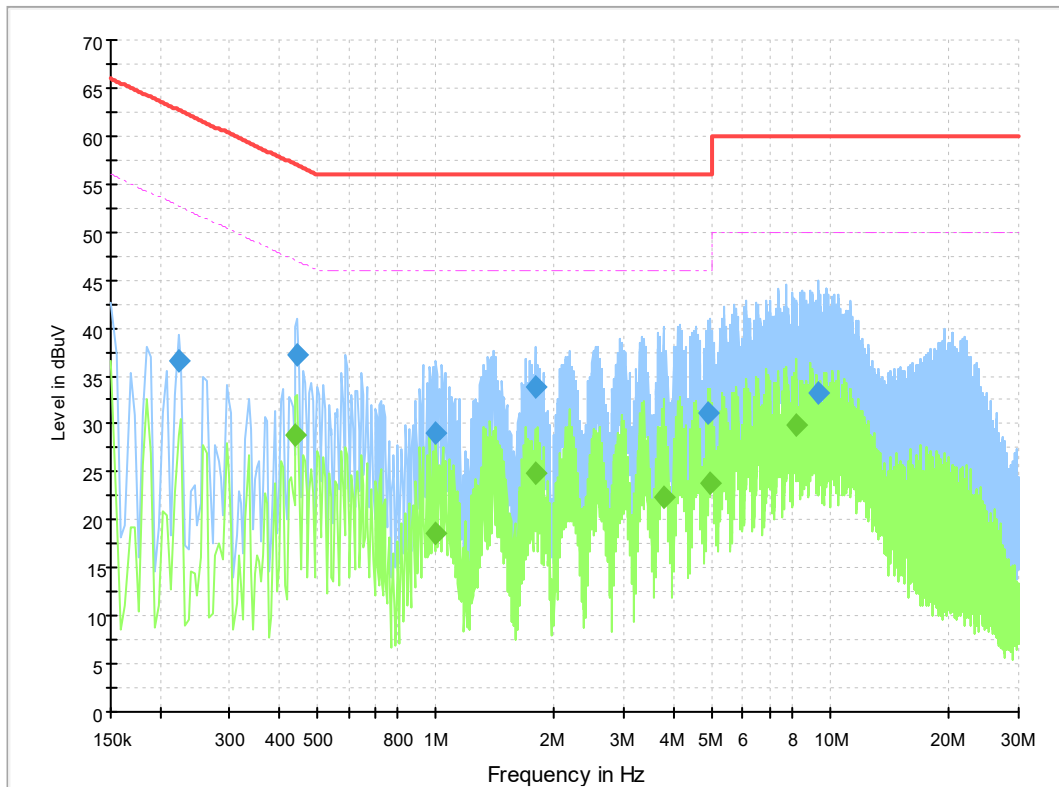


Fig.10 AC Powerline Conducted Emission-Idle

Note: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Final Result 1

Frequency (MHz)	QuasiPeak (dB μ V)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.222000	36.6	2000.0	9.000	On	L1	20.0	26.2	62.7	
0.447000	37.2	2000.0	9.000	On	L1	20.1	19.8	56.9	
1.000500	29.1	2000.0	9.000	On	N	20.0	26.9	56.0	
1.783500	33.8	2000.0	9.000	On	L1	19.8	22.2	56.0	
4.897500	31.1	2000.0	9.000	On	N	20.0	24.9	56.0	
9.361500	33.2	2000.0	9.000	On	N	20.1	26.8	60.0	

Final Result 2

Frequency (MHz)	CAverage (dB μ V)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.442500	28.9	2000.0	9.000	On	L1	20.1	18.1	47.0	
1.000500	18.7	2000.0	9.000	On	N	20.0	27.3	46.0	
1.783500	24.8	2000.0	9.000	On	L1	19.8	21.2	46.0	
3.781500	22.4	2000.0	9.000	On	N	20.0	23.6	46.0	
4.960500	23.9	2000.0	9.000	On	N	20.0	22.1	46.0	
8.155500	29.9	2000.0	9.000	On	L1	19.9	20.1	50.0	

A.9. Antenna Requirement

The antenna of the device is permanently attached. There are no provisions for connection to an external antenna.

The unit complies with the requirement of FCC Part 15.203.

ANNEX B: EUT parameters

Disclaimer: The antenna gain and worse case provided by the client may affect the validity of the measurement results in this report, and the client shall bear the impact and consequences arising therefrom.

ANNEX C: Accreditation Certificate



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