

Fig.A.5.46 Band Edges (802.11ax-HE20, Ch 11)

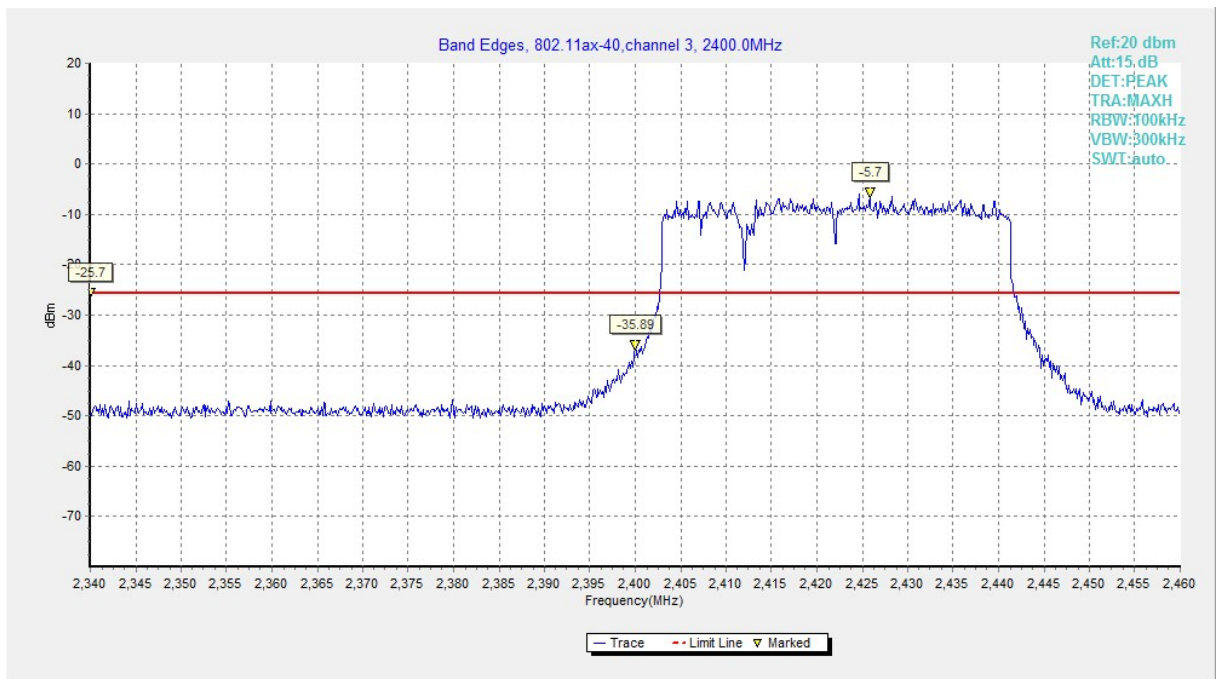


Fig.A.5.47 Band Edges (802.11ax-HE40, Ch 3)

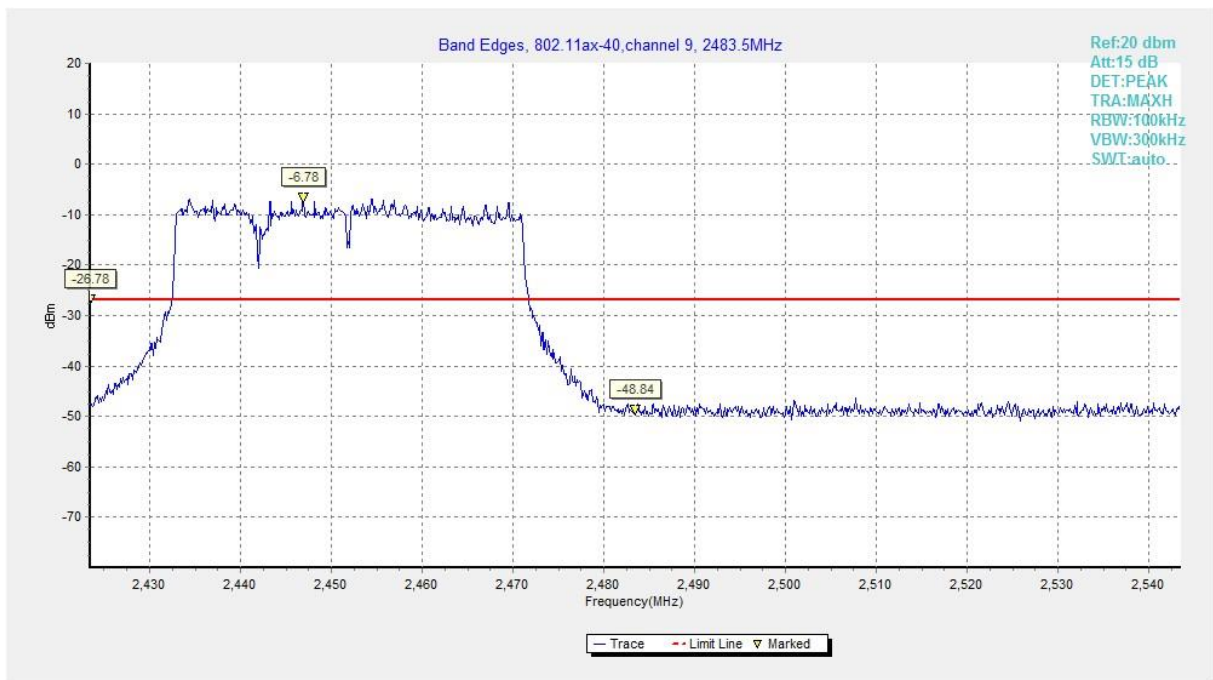


Fig.A.5.48 Band Edges (802.11ax-HE40, Ch 9)

A.5.2 Band Edges Compliance – Radiated

Method of Measurement: See ANSI C63.10-2013-clause 6.4 & 6.5 & 6.6

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

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(μ V/m)	Measurement distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30

Frequency of emission (MHz)	Field strength(μ V/m)	Field strength(dBuV/m)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Set up:

Tabletop devices shall be placed on a nonconducting platform with nominal top surface dimensions 1 m by 1.5 m and the table height shall be 1.5 m.

The EUT and transmitting antenna shall be centered on the turntable.

Test Condition

The EUT shall be tested 1 near top, 1 near middle, and 1 near bottom. Set the unlicensed wireless device to operate in continuous transmit mode. For unlicensed wireless devices unable to be configured for 100% duty cycle even in test mode, configure the system for the maximum duty cycle supported.

When required for unlicensed wireless devices, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage.

Exploratory radiated emissions measurements

Exploratory radiated measurements shall be performed at the measurement distance or at a closer distance than that specified for compliance to determine the emission characteristics of the EUT and, if applicable, the EUT configuration that produces the maximum level of emissions. The frequencies of maximum emission may be determined by manually positioning the antenna close to the EUT, and then moving the antenna over all sides of the EUT while observing a spectral display. It is advantageous to have prior knowledge of the frequencies of emissions, although this may be determined from such a near-field scan. The near-field scan shall only be used to determine the frequency but not the amplitude of the emissions. Where exploratory measurements are not adequate to determine the worst-case operating modes and are used only to identify the frequencies of the highest emissions, additional preliminary tests can be required.

For emissions from the EUT, the maximum level shall be determined by rotating the EUT and its antenna through 0° to 360°. For each mode of operation required to be tested, the frequency spectrum (based on findings from exploratory measurements) shall be monitored.

Broadband antennas and a spectrum analyzer or a radio-noise meter with a panoramic display are often useful in this type of test. If either antenna height or EUT azimuth are not fully measured during exploratory testing, then complete testing can be required at the OATS or semi-anechoic chamber when the final full spectrum testing is performed.

Final radiated emissions measurements

The final measurements are using the orientation and equipment arrangement of the EUT based on the measurement results found during the preliminary (exploratory) measurements, the EUT arrangement, appropriate modulation, and modes of operation that produce the emissions that have the highest amplitude relative to the limit shall be selected for the final measurement.

For emissions from the EUT, the maximum level shall be determined by rotating the EUT and its antenna through 0° to 360°. Final measurements for the EUT require a measurement antenna height scan of 1 m to 4 m and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations. For each mode of operation required to be tested, the frequency spectrum (based on findings from exploratory measurements) shall be monitored. For each mode selected, record the frequency and amplitude of the highest fundamental emission

(if applicable), as well as the frequency and amplitude of the six highest spurious emissions relative to the limit. Emissions more than 20 dB below the limit do not need to be reported. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The receiver references:

Frequency of emission (MHz)	RBW/VBW	Sweep Time(s)
30-1000	100KHz/300KHz	5
1000-4000	1MHz/3MHz	15
4000-18000	1MHz/3MHz	40
18000-26500	1MHz/3MHz	20

EUT ID: UT06a

Measurement Result:

802.11b mode W1

Mode	Channel	Test Results	Conclusion
802.11b	1	Fig.A.5.49	P
	11	Fig.A.5.50	P

802.11g mode W1&W2

Mode	Channel	Test Results	Conclusion
802.11g	1	Fig.A.5.1	P
	11	Fig.A.5.2	P

802.11n-HT20 mode W1&W2&W3&W4

Mode	Channel	Test Results	Conclusion
802.11n (HT20)	1	Fig.A.5.3	P
	11	Fig.A.5.4	P

802.11ax-HT20 mode W2

Mode	Channel	Test Results	Conclusion
802.11ax (HT20)	1	Fig.A.5.5	P
	11	Fig.A.5.6	P

802.11n-HT40 mode W3

Mode	Channel	Test Results	Conclusion
802.11n (HT40)	3	Fig.A.5.7	P
	9	Fig.A.5.8	P

802.11ax-HT40 mode W1&W2

Mode	Channel	Test Results	Conclusion
802.11ax	3	Fig.A.5.9	P

(HT40)	9	Fig.A.5.10	P
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Conclusion: Pass

Test graphs as below:

Full Spectrum

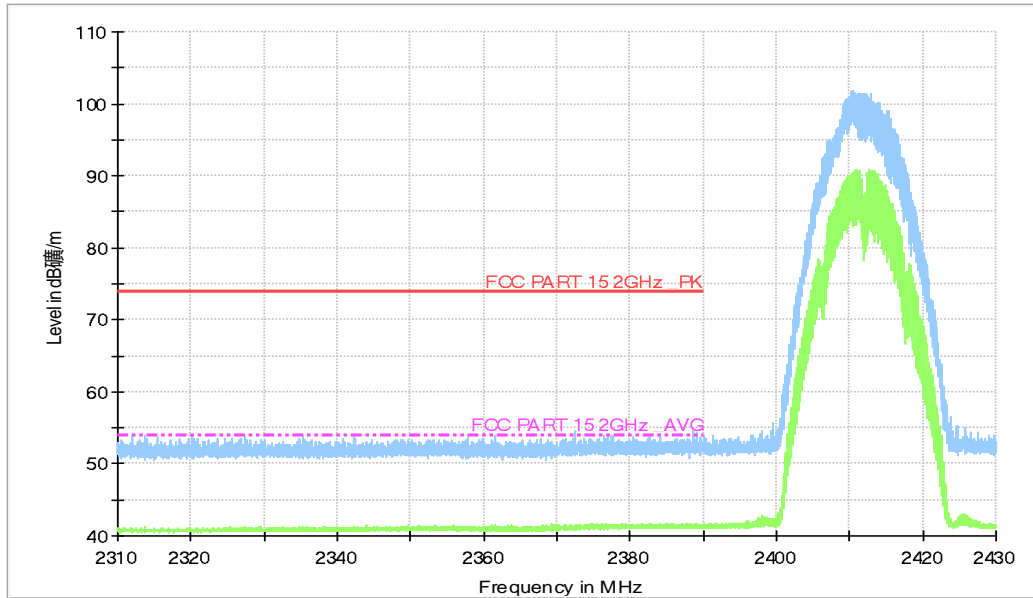


Fig.A.5.49 Band Edges (802.11b, Ch 1)

Full Spectrum

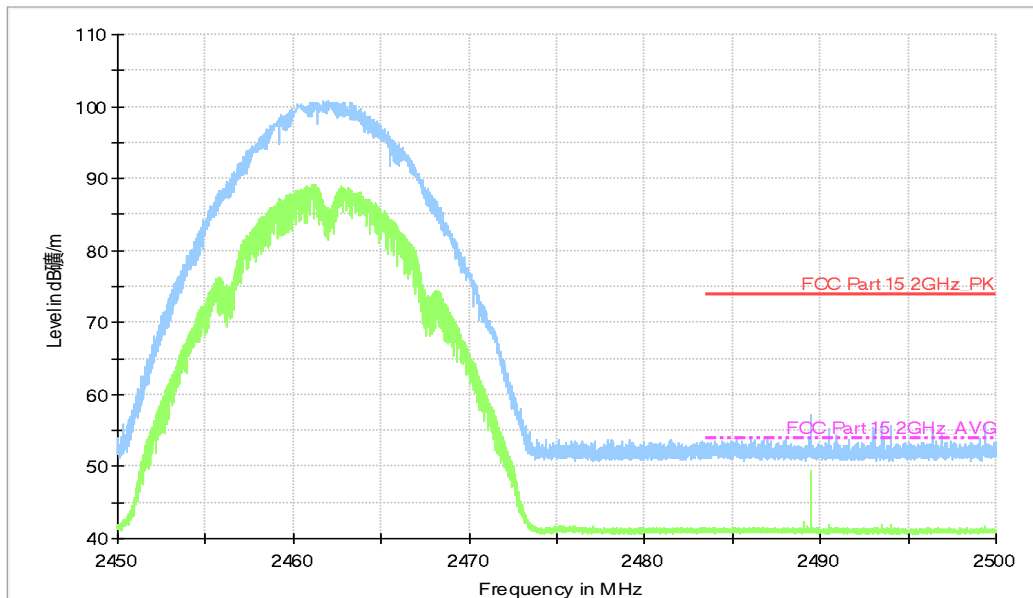


Fig.A.5.50 Band Edges (802.11b, Ch 11)

Full Spectrum

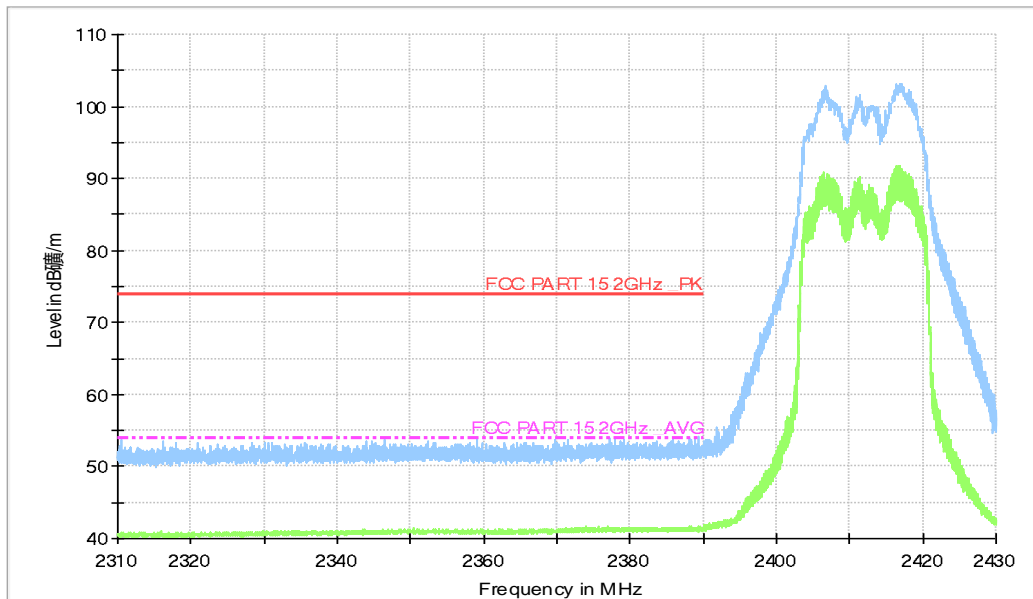


Fig.A.5.51 Band Edges (802.11g, Ch 1)

Full Spectrum

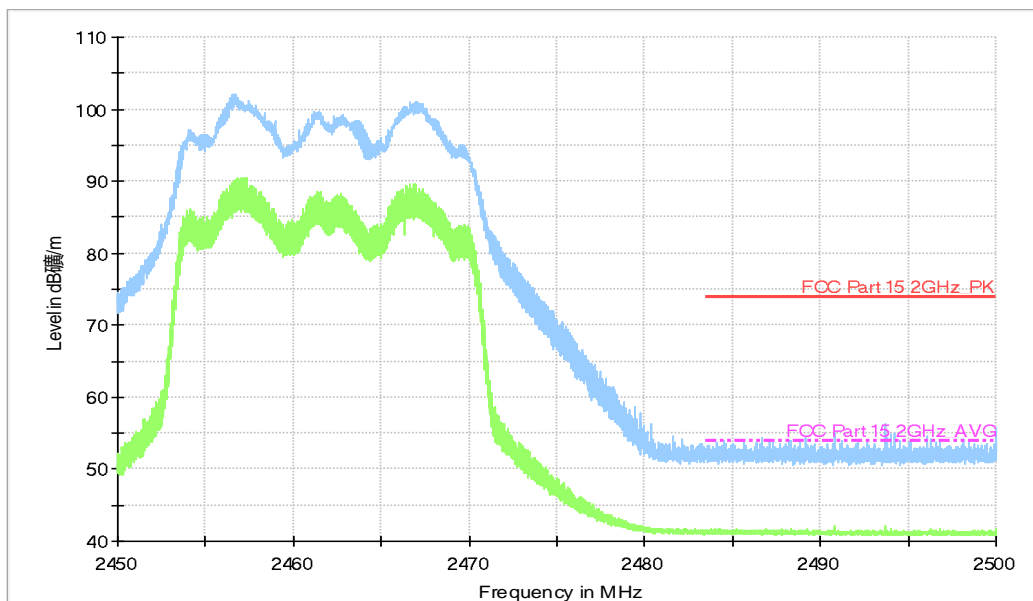


Fig.A.5.52 Band Edges (802.11g, Ch 11)

Full Spectrum

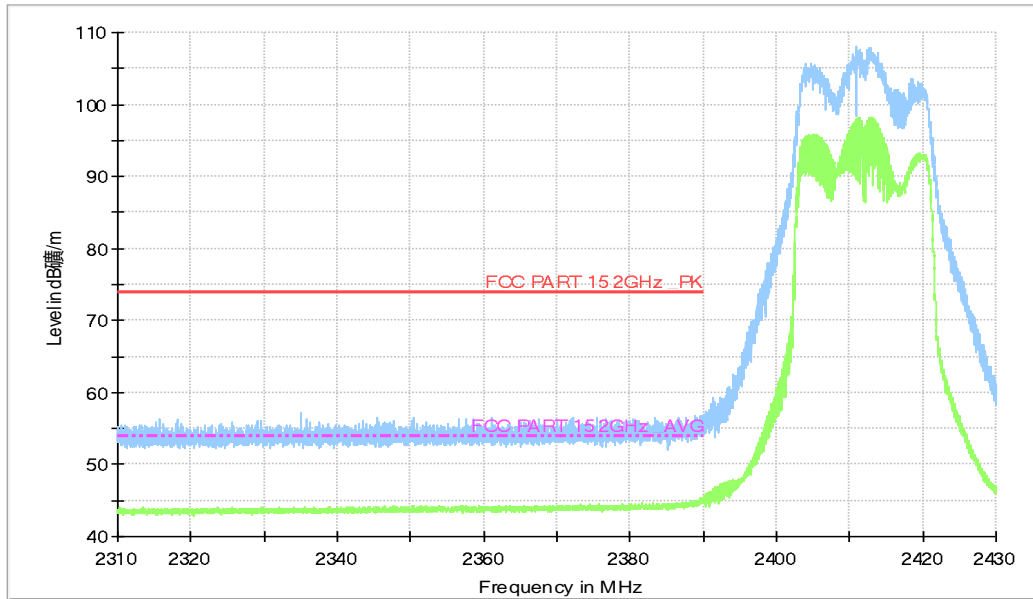


Fig.A.5.53 Band Edges (802.11n-HT20, Ch 1)

Full Spectrum

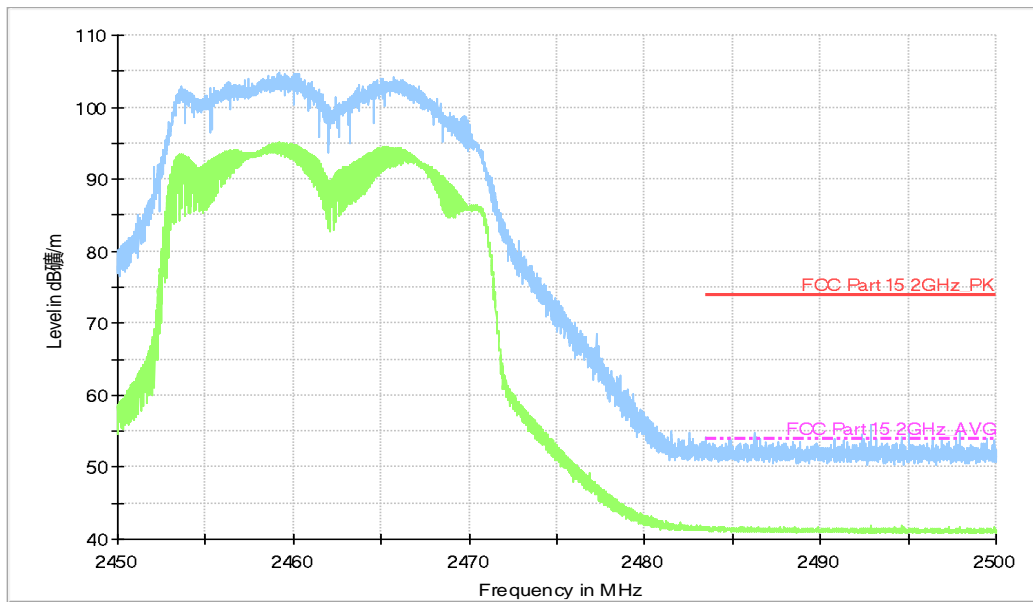


Fig.A.5.54 Band Edges (802.11n-HT20, Ch 11)

Full Spectrum

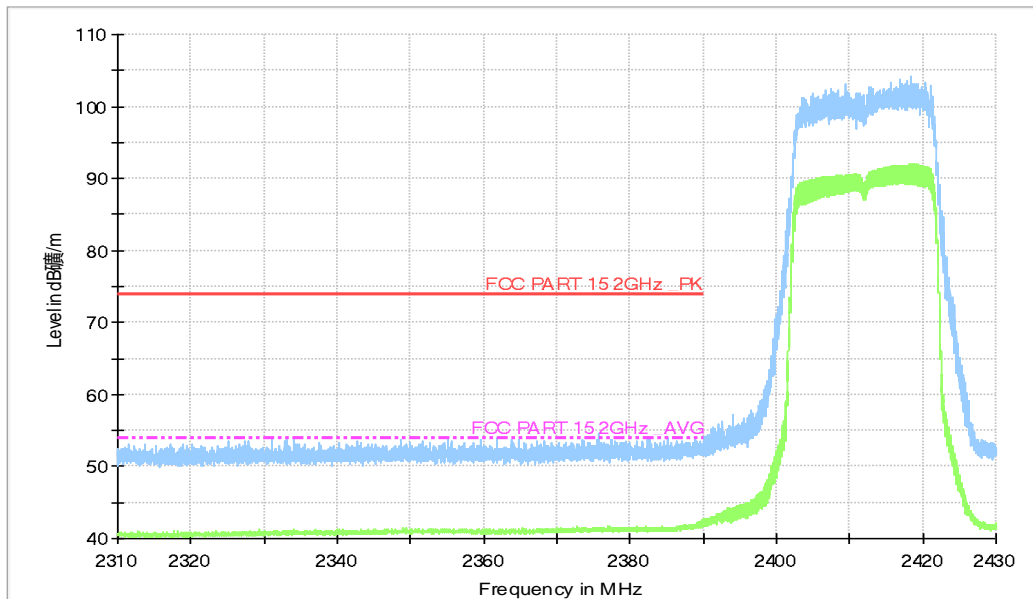


Fig.A.5.55 Band Edges (802.11ax-HT20, Ch 1)

Full Spectrum

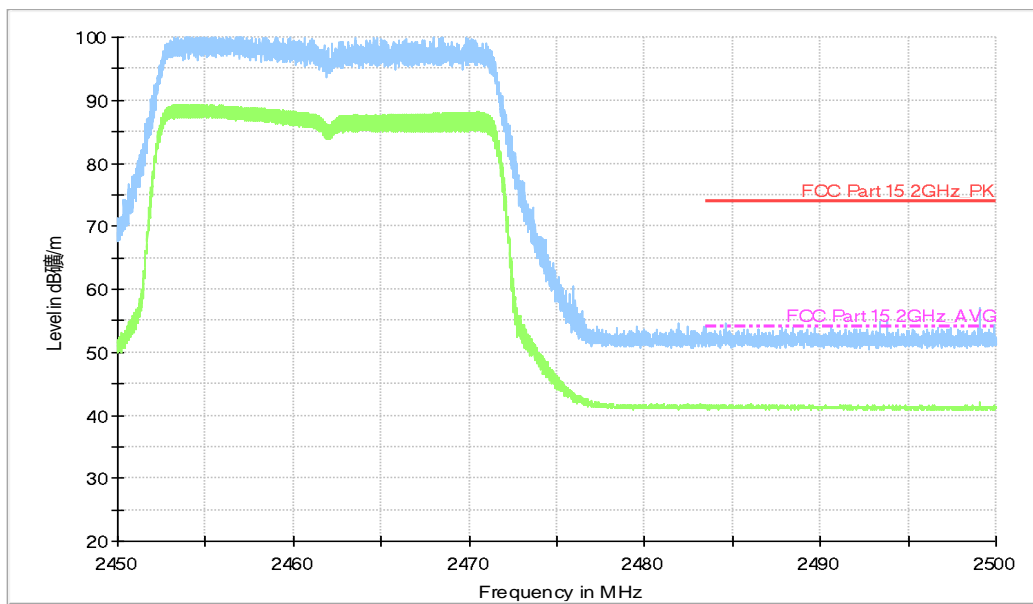


Fig.A.5.56 Band Edges (802.11ax-HT20, Ch 11)

Full Spectrum

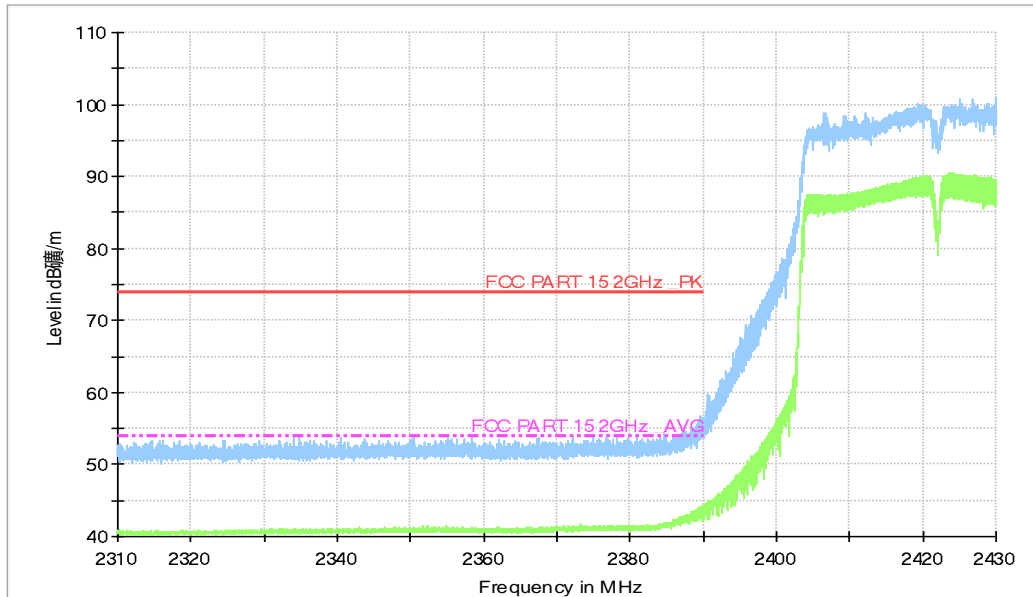


Fig.A.5.57 Band Edges (802.11n-HT40, Ch 3)

Full Spectrum

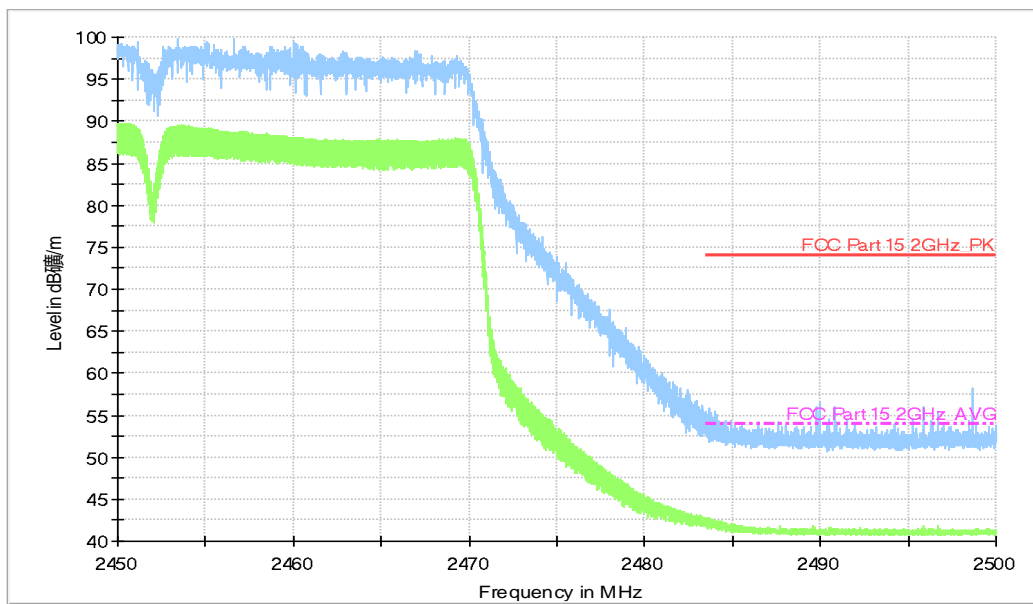


Fig.A.5.58 Band Edges (802.11n-HT40, Ch 9)

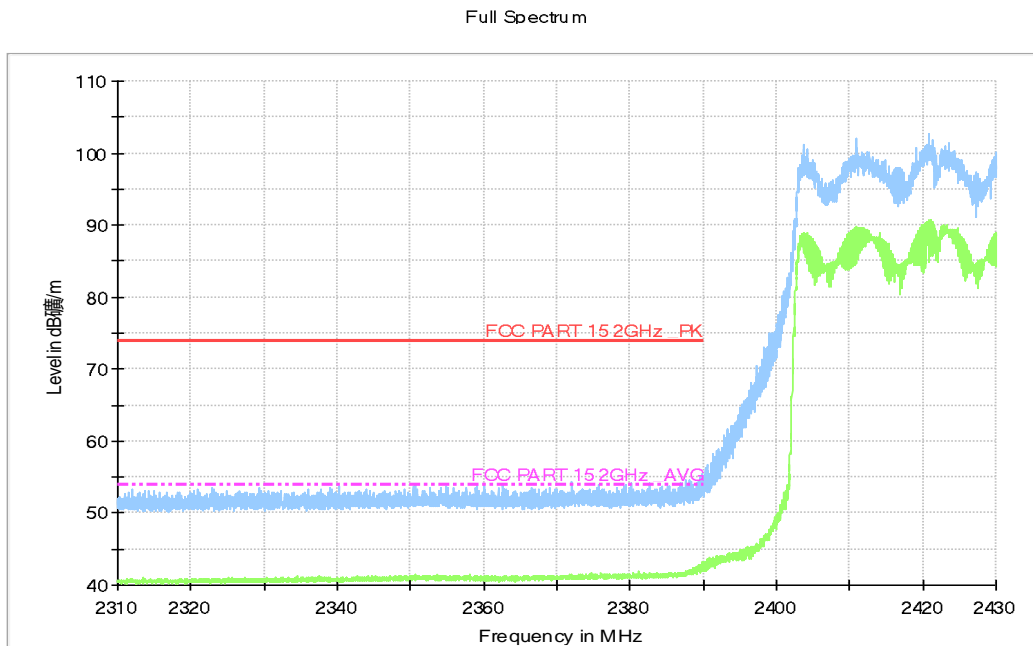


Fig.A.5.59 Band Edges (802.11ax-HT40, Ch 3)

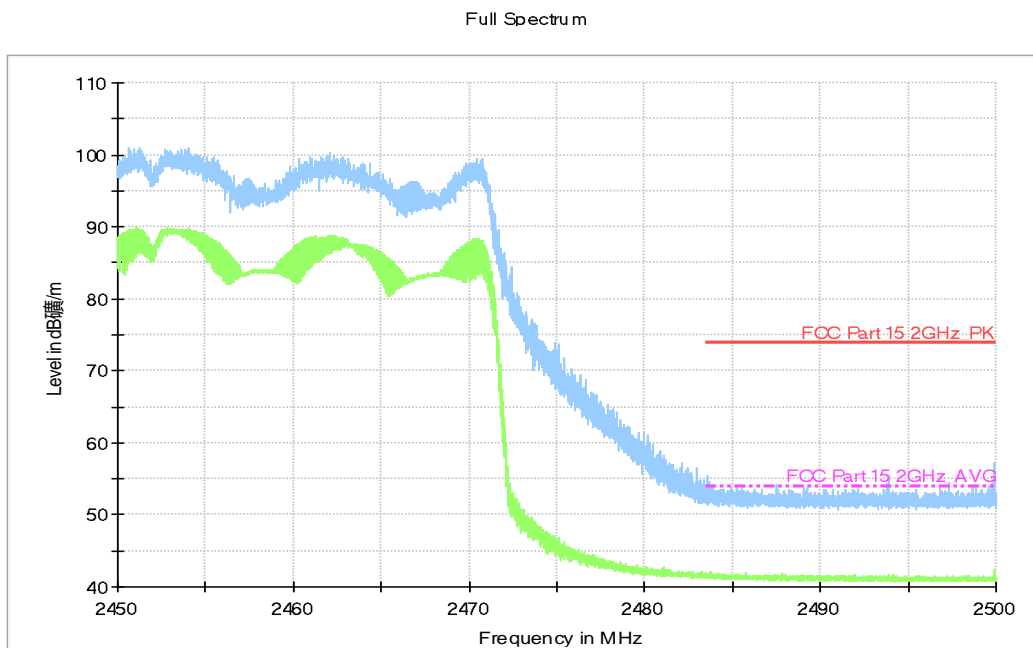


Fig.A.5.60 Band Edges (802.11ax-HT40, Ch 9)

A.6. Transmitter Spurious Emission

A.6.1 Transmitter Spurious Emission – Conducted

Method of Measurement: See ANSI C63.10-2013-clause 11.11

Establish a reference level by using the following procedure:

- a) Set instrument center frequency to DTS channel center frequency
- b) Set the span to ≥ 1.5 times the DTS bandwidth
- c) Set the RBW= 100 kHz
- d) Set the VBW= 300 kHz
- e) Detector = Peak
- f) Sweep time = auto couple
- g) Trace mode = max hold
- h) Allow trace to fully stabilize
- i) Use the peak marker function to determine the maximum PSD level

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

Establish an emission level by using the following procedure:

- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100 kHz.
- c) Set the VBW = 300 kHz.
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247 (d)	20dB below peak output power in 100 kHz bandwidth

EUT ID: EUT2/3/4

Measurement Results:

SISO(802.11b/n20 is W2; 802.11g/n40 is W1)
802.11b mode

MODE	Channel	Frequency Range	Test Results	Conclusion
802.11b	1	2.412 GHz	Fig.A.6.1.1	P
		30 MHz ~ 26 GHz	Fig.A.6.1.2	P
	6	2.437 GHz	Fig.A.6.1.3	P
		30 MHz ~ 26 GHz	Fig.A.6.1.4	P
	11	2.462 GHz	Fig.A.6.1.5	P
		30 MHz ~ 26 GHz	Fig.A.6.1.6	P

802.11g mode

MODE	Channel	Frequency Range	Test Results	Conclusion
802.11g	1	2.412 GHz	Fig.A.6.1.7	P
		30 MHz ~ 26 GHz	Fig.A.6.1.8	P
	6	2.437 GHz	Fig.A.6.1.9	P
		30 MHz ~ 26 GHz	Fig.A.6.1.10	P
	11	2.462 GHz	Fig.A.6.1.11	P
		30 MHz ~ 26 GHz	Fig.A.6.1.12	P

802.11n-HT20 mode

MODE	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT20)	1	2.412 GHz	Fig.A.6.1.13	P
		30 MHz ~ 26 GHz	Fig.A.6.1.14	P
	6	2.437 GHz	Fig.A.6.1.15	P
		30 MHz ~ 26 GHz	Fig.A.6.1.16	P
	11	2.462 GHz	Fig.A.6.1.17	P
		30 MHz ~ 26 GHz	Fig.A.6.1.18	P

802.11n-HT40 mode

MODE	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT40)	3	2.422 GHz	Fig.A.6.1.19	P
		30 MHz ~ 26 GHz	Fig.A.6.1.20	P
	6	2.437 GHz	Fig.A.6.1.21	P
		30 MHz ~ 26 GHz	Fig.A.6.1.22	P
	9	2.452 GHz	Fig.A.6.1.23	P
		30 MHz ~ 26 GHz	Fig.A.6.1.24	P

SISO-W2
802.11ax-HE20 mode

MODE	Channel	Frequency Range	Test Results	Conclusion
802.11ax (HE20)	1	2.412 GHz	Fig.A.6.1.25	P
		30 MHz ~ 1 GHz	Fig.A.6.1.26	P
		1 GHz ~ 2.5 GHz	Fig.A.6.1.27	P
		2.5 GHz ~ 7.5 GHz	Fig.A.6.1.28	P
		7.5 GHz ~ 10 GHz	Fig.A.6.1.29	P
		10 GHz ~ 15 GHz	Fig.A.6.1.30	P
		15 GHz ~ 20 GHz	Fig.A.6.1.31	P
		20 GHz ~ 26 GHz	Fig.A.6.1.32	P
	6	2.437 GHz	Fig.A.6.1.33	P
		30 MHz ~ 1 GHz	Fig.A.6.1.34	P
		1 GHz ~ 2.5 GHz	Fig.A.6.1.35	P
		2.5 GHz ~ 7.5 GHz	Fig.A.6.1.36	P
		7.5 GHz ~ 10 GHz	Fig.A.6.1.37	P
		10 GHz ~ 15 GHz	Fig.A.6.1.38	P
		15 GHz ~ 20 GHz	Fig.A.6.1.39	P
		20 GHz ~ 26 GHz	Fig.A.6.1.40	P
	11	2.462 GHz	Fig.A.6.1.41	P
		30 MHz ~ 1 GHz	Fig.A.6.1.42	P
		1 GHz ~ 2.5 GHz	Fig.A.6.1.43	P
		2.5 GHz ~ 7.5 GHz	Fig.A.6.1.44	P
		7.5 GHz ~ 10 GHz	Fig.A.6.1.45	P
		10 GHz ~ 15 GHz	Fig.A.6.1.46	P
		15 GHz ~ 20 GHz	Fig.A.6.1.47	P
		20 GHz ~ 26 GHz	Fig.A.6.1.48	P

802.11ax-HE40 mode

MODE	Channel	Frequency Range	Test Results	Conclusion
802.11ax (HE40)	3	2.422 GHz	Fig.A.6.1.49	P
		30 MHz ~ 1 GHz	Fig.A.6.1.50	P
		1 GHz ~ 2.5 GHz	Fig.A.6.1.51	P
		2.5 GHz ~ 7.5 GHz	Fig.A.6.1.52	P
		7.5 GHz ~ 10 GHz	Fig.A.6.1.53	P
		10 GHz ~ 15 GHz	Fig.A.6.1.54	P
		15 GHz ~ 20 GHz	Fig.A.6.1.55	P
		20 GHz ~ 26 GHz	Fig.A.6.1.56	P
	6	2.437 GHz	Fig.A.6.1.57	P
		30 MHz ~ 1 GHz	Fig.A.6.1.58	P
		1 GHz ~ 2.5 GHz	Fig.A.6.1.59	P
		2.5 GHz ~ 7.5 GHz	Fig.A.6.1.60	P
		7.5 GHz ~ 10 GHz	Fig.A.6.1.61	P
		10 GHz ~ 15 GHz	Fig.A.6.1.62	P
		15 GHz ~ 20 GHz	Fig.A.6.1.63	P
		20 GHz ~ 26 GHz	Fig.A.6.1.64	P
	9	2.452 GHz	Fig.A.6.1.65	P
		30 MHz ~ 1 GHz	Fig.A.6.1.66	P
		1 GHz ~ 2.5 GHz	Fig.A.6.1.67	P
		2.5 GHz ~ 7.5 GHz	Fig.A.6.1.68	P
		7.5 GHz ~ 10 GHz	Fig.A.6.1.69	P
		10 GHz ~ 15 GHz	Fig.A.6.1.70	P
		15 GHz ~ 20 GHz	Fig.A.6.1.71	P
		20 GHz ~ 26 GHz	Fig.A.6.1.72	P

(W1&W2-W1)
802.11b mode

MODE	Channel	Frequency Range	Test Results	Conclusion
802.11b	1	2.412 GHz	Fig.A.6.1.73	P
		30 MHz ~ 26 GHz	Fig.A.6.1.74	P
	6	2.437 GHz	Fig.A.6.1.75	P
		30 MHz ~ 26 GHz	Fig.A.6.1.76	P
	11	2.462 GHz	Fig.A.6.1.77	P
		30 MHz ~ 26 GHz	Fig.A.6.1.78	P

802.11g mode

MODE	Channel	Frequency Range	Test Results	Conclusion
802.11g	1	2.412 GHz	Fig.A.6.1.79	P
		30 MHz ~ 26 GHz	Fig.A.6.1.80	P
	6	2.437 GHz	Fig.A.6.1.81	P
		30 MHz ~ 26 GHz	Fig.A.6.1.82	P
	11	2.462 GHz	Fig.A.6.1.83	P
		30 MHz ~ 26 GHz	Fig.A.6.1.84	P

802.11n-HT20 mode

MODE	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT20)	1	2.412 GHz	Fig.A.6.1.85	P
		30 MHz ~ 26 GHz	Fig.A.6.1.86	P
	6	2.437 GHz	Fig.A.6.1.87	P
		30 MHz ~ 26 GHz	Fig.A.6.1.88	P
	11	2.462 GHz	Fig.A.6.1.89	P
		30 MHz ~ 26 GHz	Fig.A.6.1.90	P

802.11n-HT40 mode

MODE	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT40)	3	2.422 GHz	Fig.A.6.1.91	P
		30 MHz ~ 26 GHz	Fig.A.6.1.92	P
	6	2.437 GHz	Fig.A.6.1.93	P
		30 MHz ~ 26 GHz	Fig.A.6.1.94	P
	9	2.452 GHz	Fig.A.6.1.95	P
		30 MHz ~ 26 GHz	Fig.A.6.1.96	P

802.11ax-HE20 mode

MODE	Channel	Frequency Range	Test Results	Conclusion
802.11ax (HE20)	1	2.412 GHz	Fig.A.6.1.97	P
		30 MHz ~ 1 GHz	Fig.A.6.1.98	P
		1 GHz ~ 2.5 GHz	Fig.A.6.1.99	P
		2.5 GHz ~ 7.5 GHz	Fig.A.6.1.100	P
		7.5 GHz ~ 10 GHz	Fig.A.6.1.101	P
		10 GHz ~ 15 GHz	Fig.A.6.1.102	P
		15 GHz ~ 20 GHz	Fig.A.6.1.103	P
		20 GHz ~ 26 GHz	Fig.A.6.1.104	P
	6	2.437 GHz	Fig.A.6.1.105	P
		30 MHz ~ 1 GHz	Fig.A.6.1.106	P
		1 GHz ~ 2.5 GHz	Fig.A.6.1.107	P
		2.5 GHz ~ 7.5 GHz	Fig.A.6.1.108	P
		7.5 GHz ~ 10 GHz	Fig.A.6.1.109	P
		10 GHz ~ 15 GHz	Fig.A.6.1.110	P
		15 GHz ~ 20 GHz	Fig.A.6.1.111	P
		20 GHz ~ 26 GHz	Fig.A.6.1.112	P
	11	2.462 GHz	Fig.A.6.1.113	P
		30 MHz ~ 1 GHz	Fig.A.6.1.114	P
		1 GHz ~ 2.5 GHz	Fig.A.6.1.115	P
		2.5 GHz ~ 7.5 GHz	Fig.A.6.1.116	P
		7.5 GHz ~ 10 GHz	Fig.A.6.1.117	P
		10 GHz ~ 15 GHz	Fig.A.6.1.118	P
		15 GHz ~ 20 GHz	Fig.A.6.1.119	P
		20 GHz ~ 26 GHz	Fig.A.6.1.120	P

802.11ax-HE40 mode

MODE	Channel	Frequency Range	Test Results	Conclusion
802.11ax (HE40)	3	2.422 GHz	Fig.A.6.1.121	P
		30 MHz ~ 1 GHz	Fig.A.6.1.122	P
		1 GHz ~ 2.5 GHz	Fig.A.6.1.123	P
		2.5 GHz ~ 7.5 GHz	Fig.A.6.1.124	P
		7.5 GHz ~ 10 GHz	Fig.A.6.1.125	P
		10 GHz ~ 15 GHz	Fig.A.6.1.126	P
		15 GHz ~ 20 GHz	Fig.A.6.1.127	P
		20 GHz ~ 26 GHz	Fig.A.6.1.128	P
	6	2.437 GHz	Fig.A.6.1.129	P
		30 MHz ~ 1 GHz	Fig.A.6.1.130	P
		1 GHz ~ 2.5 GHz	Fig.A.6.1.131	P
		2.5 GHz ~ 7.5 GHz	Fig.A.6.1.132	P
		7.5 GHz ~ 10 GHz	Fig.A.6.1.133	P
		10 GHz ~ 15 GHz	Fig.A.6.1.134	P
		15 GHz ~ 20 GHz	Fig.A.6.1.135	P
		20 GHz ~ 26 GHz	Fig.A.6.1.136	P
	9	2.452 GHz	Fig.A.6.1.137	P
		30 MHz ~ 1 GHz	Fig.A.6.1.138	P
		1 GHz ~ 2.5 GHz	Fig.A.6.1.139	P
		2.5 GHz ~ 7.5 GHz	Fig.A.6.1.140	P
		7.5 GHz ~ 10 GHz	Fig.A.6.1.141	P
		10 GHz ~ 15 GHz	Fig.A.6.1.142	P
		15 GHz ~ 20 GHz	Fig.A.6.1.143	P
		20 GHz ~ 26 GHz	Fig.A.6.1.144	P

Both of the W1 and W2 are measured, as the power of W1 is the worse case, so the results of W1 are reflected in the report.

(W1&W2&W4-W1)
802.11b mode

MODE	Channel	Frequency Range	Test Results	Conclusion
802.11b	1	2.412 GHz	Fig.A.6.1.145	P
		30 MHz ~ 26 GHz	Fig.A.6.1.146	P
	6	2.437 GHz	Fig.A.6.1.147	P
		30 MHz ~ 26 GHz	Fig.A.6.1.148	P
	11	2.462 GHz	Fig.A.6.1.149	P
		30 MHz ~ 26 GHz	Fig.A.6.1.150	P

802.11g mode

MODE	Channel	Frequency Range	Test Results	Conclusion
802.11g	1	2.412 GHz	Fig.A.6.1.151	P
		30 MHz ~ 26 GHz	Fig.A.6.1.152	P
	6	2.437 GHz	Fig.A.6.1.153	P
		30 MHz ~ 26 GHz	Fig.A.6.1.154	P
	11	2.462 GHz	Fig.A.6.1.155	P
		30 MHz ~ 26 GHz	Fig.A.6.1.156	P

802.11n-HT20 mode

MODE	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT20)	1	2.412 GHz	Fig.A.6.1.157	P
		30 MHz ~ 26 GHz	Fig.A.6.1.158	P
	6	2.437 GHz	Fig.A.6.1.159	P
		30 MHz ~ 26 GHz	Fig.A.6.1.160	P
	11	2.462 GHz	Fig.A.6.1.161	P
		30 MHz ~ 26 GHz	Fig.A.6.1.162	P

802.11n-HT40 mode

MODE	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT40)	3	2.422 GHz	Fig.A.6.1.163	P
		30 MHz ~ 26 GHz	Fig.A.6.1.164	P
	6	2.437 GHz	Fig.A.6.1.165	P
		30 MHz ~ 26 GHz	Fig.A.6.1.166	P
	9	2.452 GHz	Fig.A.6.1.167	P
		30 MHz ~ 26 GHz	Fig.A.6.1.168	P

All of the W1 W2 and W3 are measured, as the power of W1 is the worse case, so the results of W1 are reflected in the report.

(W1&W2&W4-W2)

802.11ax-HE20 mode

MODE	Channel	Frequency Range	Test Results	Conclusion
802.11ax (HE20)	1	2.412 GHz	Fig.A.6.1.169	P
		30 MHz ~ 1 GHz	Fig.A.6.1.170	P
		1 GHz ~ 2.5 GHz	Fig.A.6.1.171	P
		2.5 GHz ~ 7.5 GHz	Fig.A.6.1.172	P
		7.5 GHz ~ 10 GHz	Fig.A.6.1.173	P
		10 GHz ~ 15 GHz	Fig.A.6.1.174	P
		15 GHz ~ 20 GHz	Fig.A.6.1.175	P
		20 GHz ~ 26 GHz	Fig.A.6.1.176	P
	6	2.437 GHz	Fig.A.6.1.177	P
		30 MHz ~ 1 GHz	Fig.A.6.1.178	P
		1 GHz ~ 2.5 GHz	Fig.A.6.1.179	P
		2.5 GHz ~ 7.5 GHz	Fig.A.6.1.180	P
		7.5 GHz ~ 10 GHz	Fig.A.6.1.181	P
		10 GHz ~ 15 GHz	Fig.A.6.1.182	P
		15 GHz ~ 20 GHz	Fig.A.6.1.183	P
		20 GHz ~ 26 GHz	Fig.A.6.1.184	P
	11	2.462 GHz	Fig.A.6.1.185	P
		30 MHz ~ 1 GHz	Fig.A.6.1.186	P
		1 GHz ~ 2.5 GHz	Fig.A.6.1.187	P
		2.5 GHz ~ 7.5 GHz	Fig.A.6.1.188	P
		7.5 GHz ~ 10 GHz	Fig.A.6.1.189	P
		10 GHz ~ 15 GHz	Fig.A.6.1.190	P
		15 GHz ~ 20 GHz	Fig.A.6.1.191	P
		20 GHz ~ 26 GHz	Fig.A.6.1.192	P

802.11ax-HE40 mode

MODE	Channel	Frequency Range	Test Results	Conclusion
802.11ax (HE40)	3	2.422 GHz	Fig.A.6.1.193	P
		30 MHz ~ 1 GHz	Fig.A.6.1.194	P
		1 GHz ~ 2.5 GHz	Fig.A.6.1.195	P
		2.5 GHz ~ 7.5 GHz	Fig.A.6.1.196	P
		7.5 GHz ~ 10 GHz	Fig.A.6.1.197	P
		10 GHz ~ 15 GHz	Fig.A.6.1.198	P
		15 GHz ~ 20 GHz	Fig.A.6.1.199	P
		20 GHz ~ 26 GHz	Fig.A.6.1.200	P
	6	2.437 GHz	Fig.A.6.1.201	P
		30 MHz ~ 1 GHz	Fig.A.6.1.202	P
		1 GHz ~ 2.5 GHz	Fig.A.6.1.203	P
		2.5 GHz ~ 7.5 GHz	Fig.A.6.1.204	P
		7.5 GHz ~ 10 GHz	Fig.A.6.1.205	P
		10 GHz ~ 15 GHz	Fig.A.6.1.206	P
		15 GHz ~ 20 GHz	Fig.A.6.1.207	P
		20 GHz ~ 26 GHz	Fig.A.6.1.208	P
	9	2.452 GHz	Fig.A.6.1.209	P
		30 MHz ~ 1 GHz	Fig.A.6.1.210	P
		1 GHz ~ 2.5 GHz	Fig.A.6.1.211	P
		2.5 GHz ~ 7.5 GHz	Fig.A.6.1.212	P
		7.5 GHz ~ 10 GHz	Fig.A.6.1.213	P
		10 GHz ~ 15 GHz	Fig.A.6.1.214	P
		15 GHz ~ 20 GHz	Fig.A.6.1.215	P
		20 GHz ~ 26 GHz	Fig.A.6.1.216	P

All of the W1 W2 and W3 are measured, as the power of W2 is the worse case, so the results of W2 are reflected in the report.

(W1&W2&W3&W4-W1)
802.11b mode

MODE	Channel	Frequency Range	Test Results	Conclusion
802.11b	1	2.412 GHz	Fig.A.6.1.217	P
		30 MHz ~ 26 GHz	Fig.A.6.1.218	P
	6	2.437 GHz	Fig.A.6.1.219	P
		30 MHz ~ 26 GHz	Fig.A.6.1.220	P
	11	2.462 GHz	Fig.A.6.1.221	P
		30 MHz ~ 26 GHz	Fig.A.6.1.222	P

802.11g mode

MODE	Channel	Frequency Range	Test Results	Conclusion
802.11g	1	2.412 GHz	Fig.A.6.1.223	P
		30 MHz ~ 26 GHz	Fig.A.6.1.224	P
	6	2.437 GHz	Fig.A.6.1.225	P
		30 MHz ~ 26 GHz	Fig.A.6.1.226	P
	11	2.462 GHz	Fig.A.6.1.227	P
		30 MHz ~ 26 GHz	Fig.A.6.1.228	P

802.11n-HT20 mode

MODE	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT20)	1	2.412 GHz	Fig.A.6.1.229	P
		30 MHz ~ 26 GHz	Fig.A.6.1.230	P
	6	2.437 GHz	Fig.A.6.1.231	P
		30 MHz ~ 26 GHz	Fig.A.6.1.232	P
	11	2.462 GHz	Fig.A.6.1.233	P
		30 MHz ~ 26 GHz	Fig.A.6.1.234	P

802.11n-HT40 mode

MODE	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT40)	3	2.422 GHz	Fig.A.6.1.235	P
		30 MHz ~ 26 GHz	Fig.A.6.1.236	P
	6	2.437 GHz	Fig.A.6.1.237	P
		30 MHz ~ 26 GHz	Fig.A.6.1.238	P
	9	2.452 GHz	Fig.A.6.1.239	P
		30 MHz ~ 26 GHz	Fig.A.6.1.240	P

All of the W1 W2 W3 and W4 are measured, as the power of W1 is the worse case, so the results of W1 are reflected in the report.

(W1&W2&W3&W4-W2)

802.11ax-HE20 mode

MODE	Channel	Frequency Range	Test Results	Conclusion
802.11ax (HE20)	1	2.412 GHz	Fig.A.6.1.241	P
		30 MHz ~ 1 GHz	Fig.A.6.1.242	P
		1 GHz ~ 2.5 GHz	Fig.A.6.1.243	P
		2.5 GHz ~ 7.5 GHz	Fig.A.6.1.244	P
		7.5 GHz ~ 10 GHz	Fig.A.6.1.245	P
		10 GHz ~ 15 GHz	Fig.A.6.1.246	P
		15 GHz ~ 20 GHz	Fig.A.6.1.247	P
		20 GHz ~ 26 GHz	Fig.A.6.1.248	P
	6	2.437 GHz	Fig.A.6.1.249	P
		30 MHz ~ 1 GHz	Fig.A.6.1.250	P
		1 GHz ~ 2.5 GHz	Fig.A.6.1.251	P
		2.5 GHz ~ 7.5 GHz	Fig.A.6.1.252	P
		7.5 GHz ~ 10 GHz	Fig.A.6.1.253	P
		10 GHz ~ 15 GHz	Fig.A.6.1.254	P
		15 GHz ~ 20 GHz	Fig.A.6.1.255	P
		20 GHz ~ 26 GHz	Fig.A.6.1.256	P
	11	2.462 GHz	Fig.A.6.1.257	P
		30 MHz ~ 1 GHz	Fig.A.6.1.258	P
		1 GHz ~ 2.5 GHz	Fig.A.6.1.259	P
		2.5 GHz ~ 7.5 GHz	Fig.A.6.1.260	P
		7.5 GHz ~ 10 GHz	Fig.A.6.1.261	P
		10 GHz ~ 15 GHz	Fig.A.6.1.262	P
		15 GHz ~ 20 GHz	Fig.A.6.1.263	P
		20 GHz ~ 26 GHz	Fig.A.6.1.264	P

802.11ax-HE40 mode

MODE	Channel	Frequency Range	Test Results	Conclusion
802.11ax (HE40)	3	2.422 GHz	Fig.A.6.1.265	P
		30 MHz ~ 1 GHz	Fig.A.6.1.266	P
		1 GHz ~ 2.5 GHz	Fig.A.6.1.267	P
		2.5 GHz ~ 7.5 GHz	Fig.A.6.1.268	P
		7.5 GHz ~ 10 GHz	Fig.A.6.1.269	P
		10 GHz ~ 15 GHz	Fig.A.6.1.270	P
		15 GHz ~ 20 GHz	Fig.A.6.1.271	P
		20 GHz ~ 26 GHz	Fig.A.6.1.272	P
	6	2.437 GHz	Fig.A.6.1.273	P
		30 MHz ~ 1 GHz	Fig.A.6.1.274	P
		1 GHz ~ 2.5 GHz	Fig.A.6.1.275	P
		2.5 GHz ~ 7.5 GHz	Fig.A.6.1.276	P
		7.5 GHz ~ 10 GHz	Fig.A.6.1.277	P
		10 GHz ~ 15 GHz	Fig.A.6.1.278	P
		15 GHz ~ 20 GHz	Fig.A.6.1.279	P
		20 GHz ~ 26 GHz	Fig.A.6.1.280	P
	9	2.452 GHz	Fig.A.6.1.281	P
		30 MHz ~ 1 GHz	Fig.A.6.1.282	P
		1 GHz ~ 2.5 GHz	Fig.A.6.1.283	P
		2.5 GHz ~ 7.5 GHz	Fig.A.6.1.284	P
		7.5 GHz ~ 10 GHz	Fig.A.6.1.285	P
		10 GHz ~ 15 GHz	Fig.A.6.1.286	P
		15 GHz ~ 20 GHz	Fig.A.6.1.287	P
		20 GHz ~ 26 GHz	Fig.A.6.1.288	P

All of the W1 W2 W3 and W4 are measured, as the power of W2 is the worse case, so the results of W2 are reflected in the report.

Conclusion: Pass

Test graphs as below:

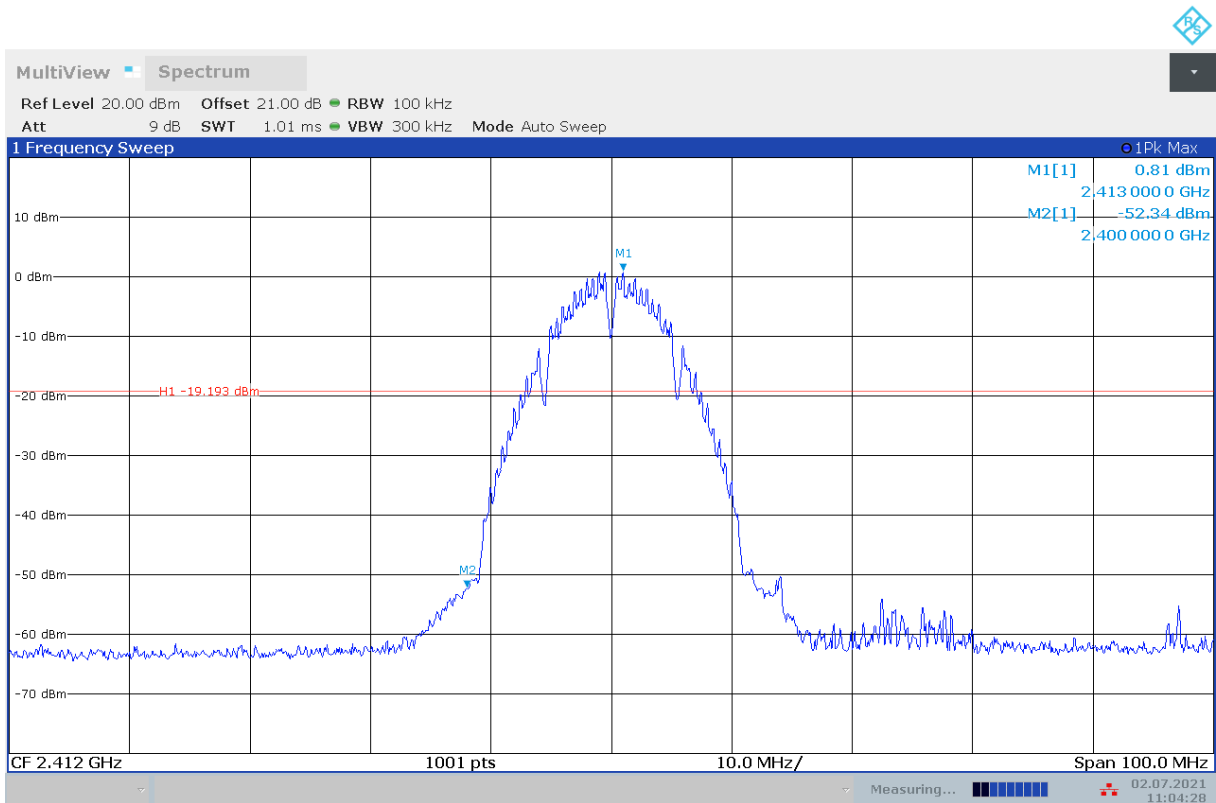


Fig.A.6.1.1 Transmitter Spurious Emission - Conducted (802.11b, Ch1, Center Frequency)

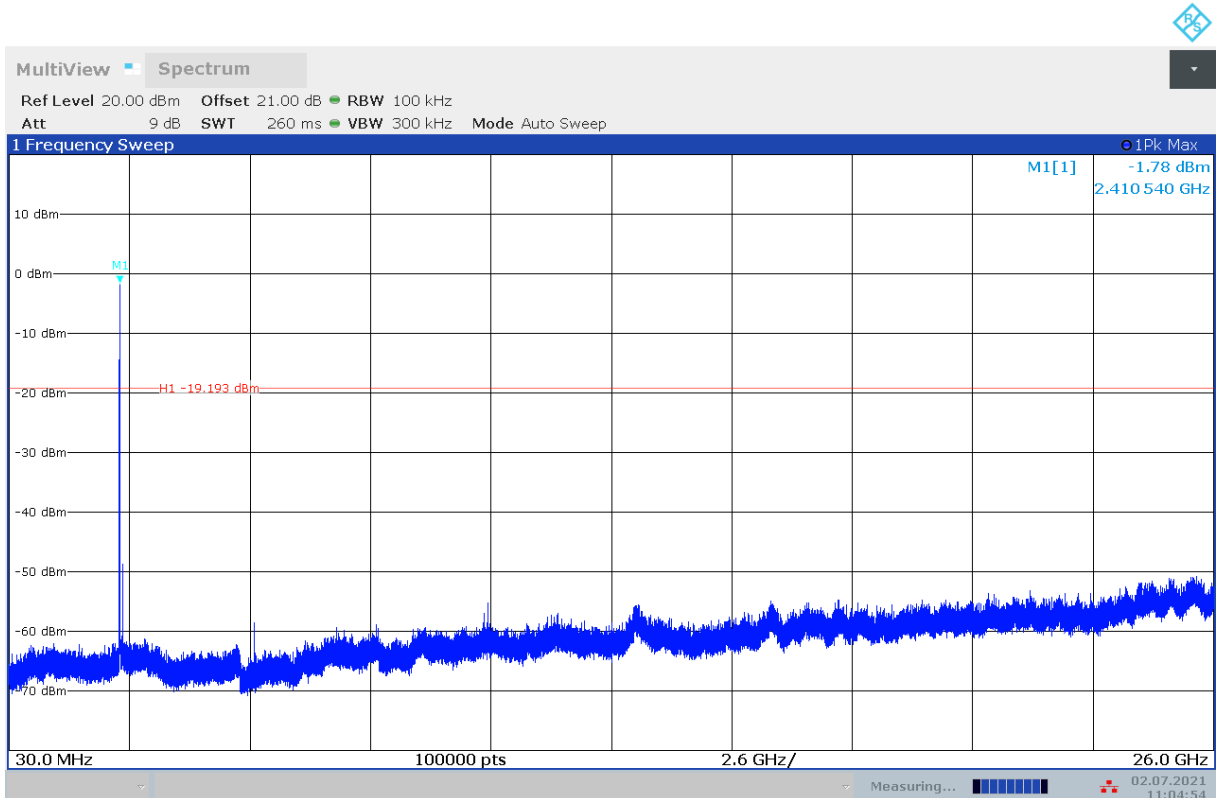


Fig.A.6.1.2 Transmitter Spurious Emission - Conducted (802.11b, Ch1, 30 MHz-26 GHz)

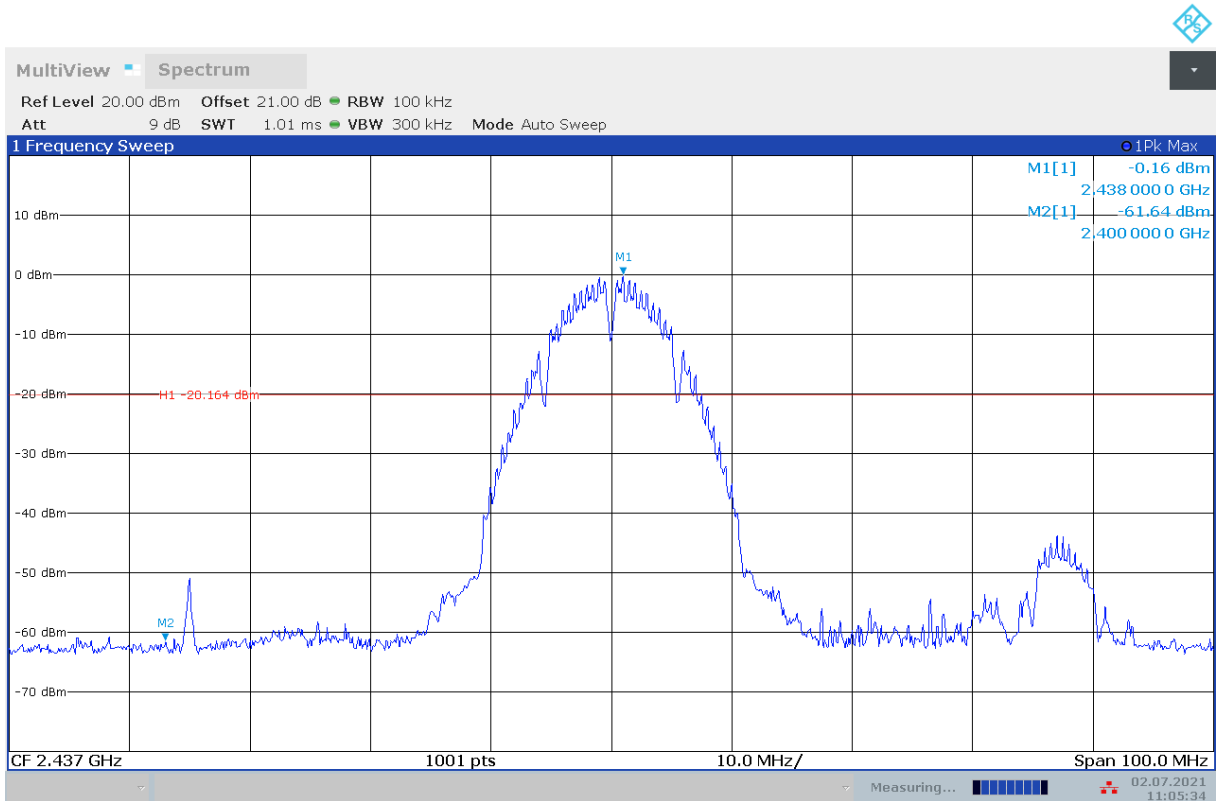


Fig.A.6.1.3 Transmitter Spurious Emission - Conducted (802.11b, Ch6, Center Frequency)

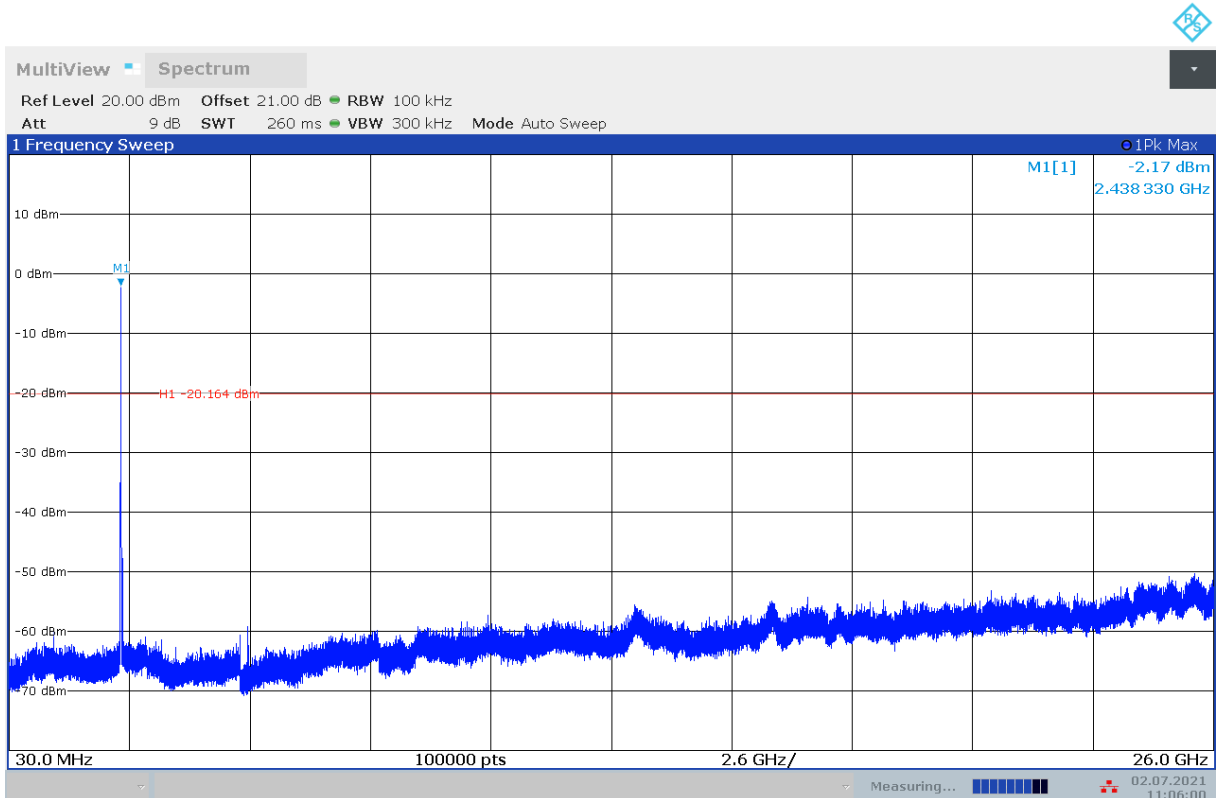


Fig.A.6.1.4 Transmitter Spurious Emission - Conducted (802.11b, Ch6, 30 MHz-26 GHz)

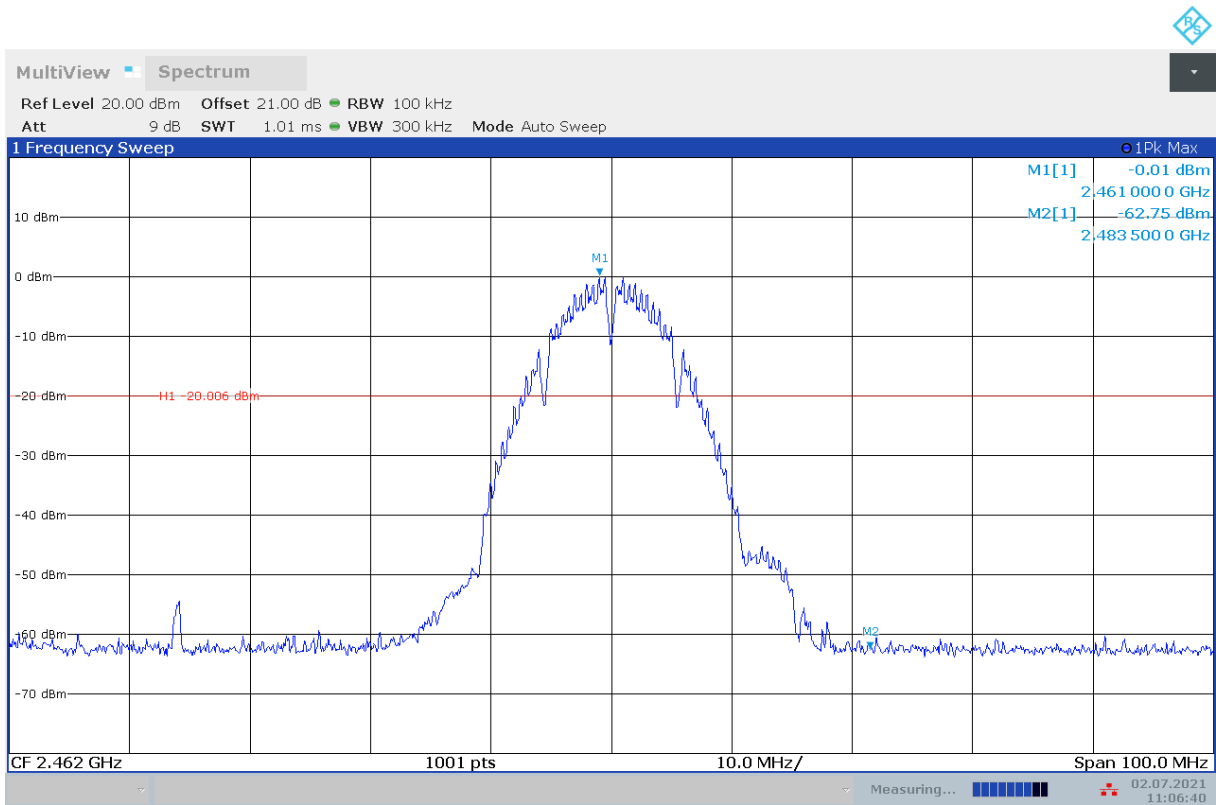


Fig.A.6.1.5 Transmitter Spurious Emission - Conducted (802.11b, Ch11, Center Frequency)

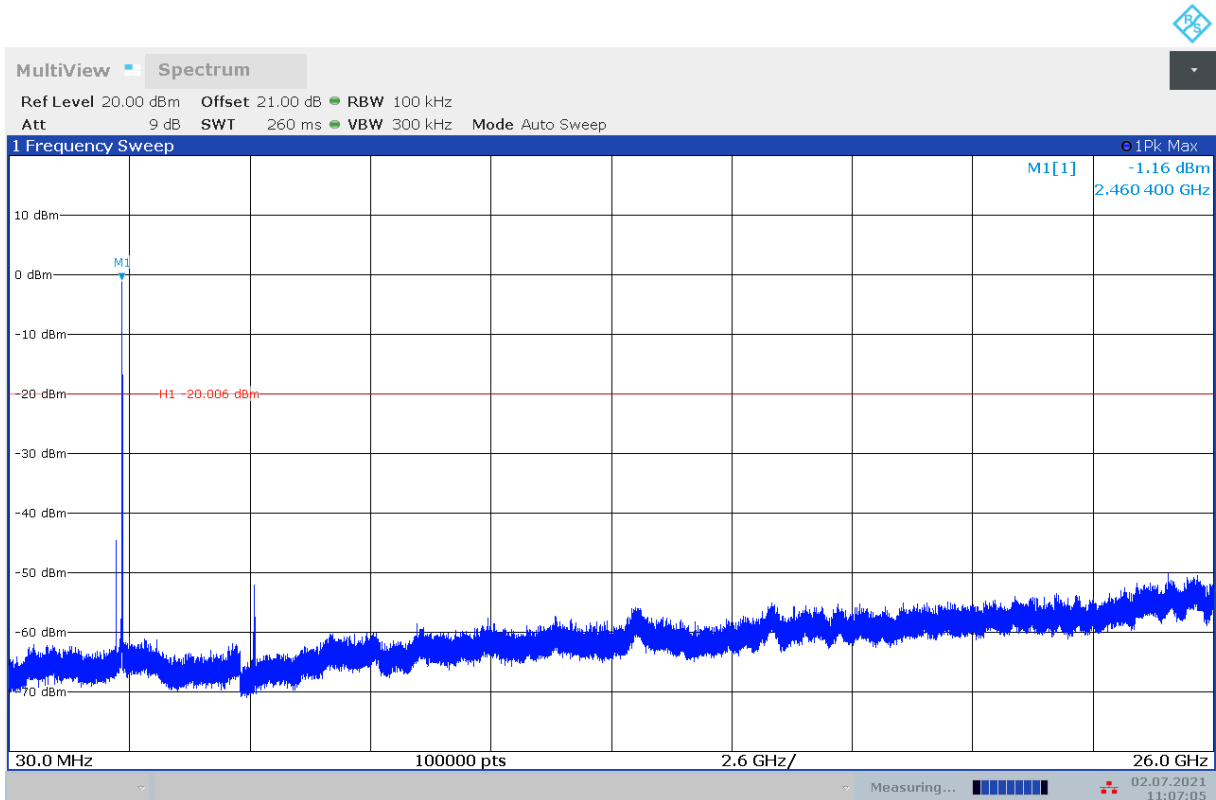


Fig.A.6.1.6 Transmitter Spurious Emission - Conducted (802.11b, Ch11, 30 MHz-26 GHz)

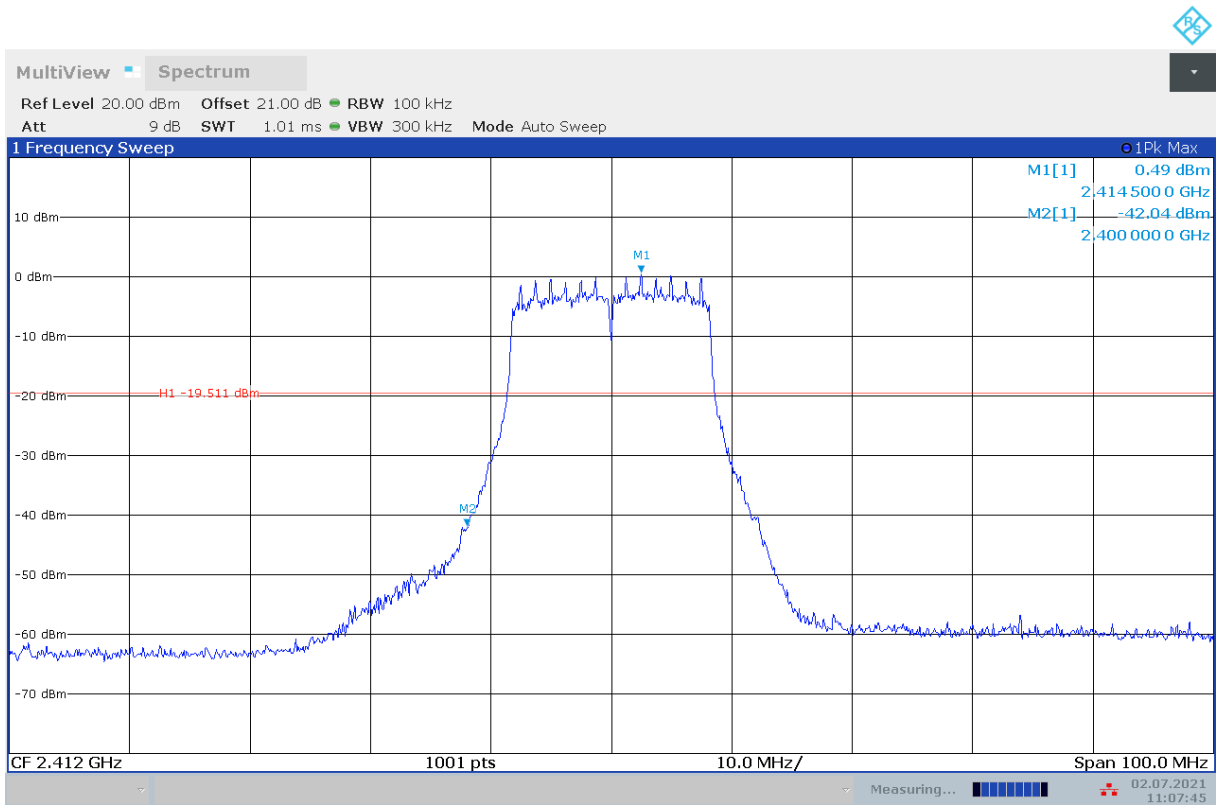


Fig.A.6.1.7 Transmitter Spurious Emission - Conducted (802.11g, Ch1, Center Frequency)

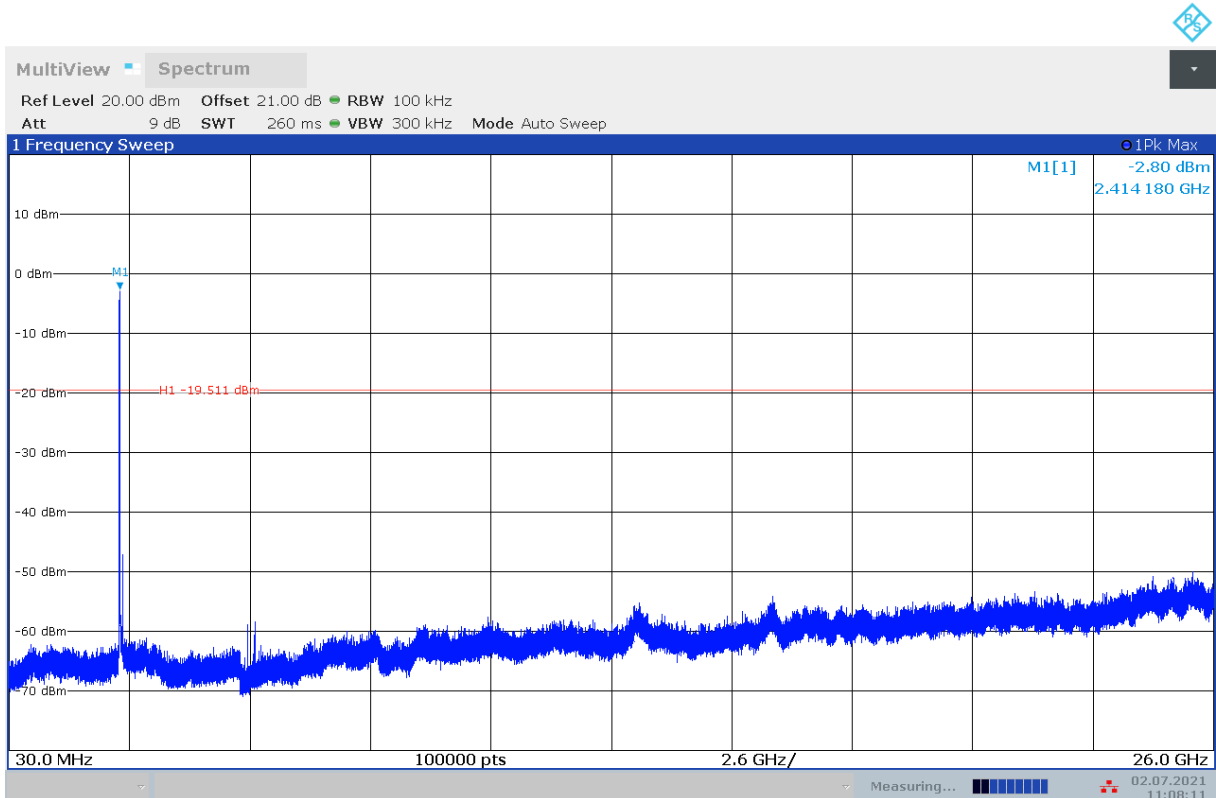


Fig.A.6.1.8 Transmitter Spurious Emission - Conducted (802.11g, Ch1, 30 MHz-26 GHz)

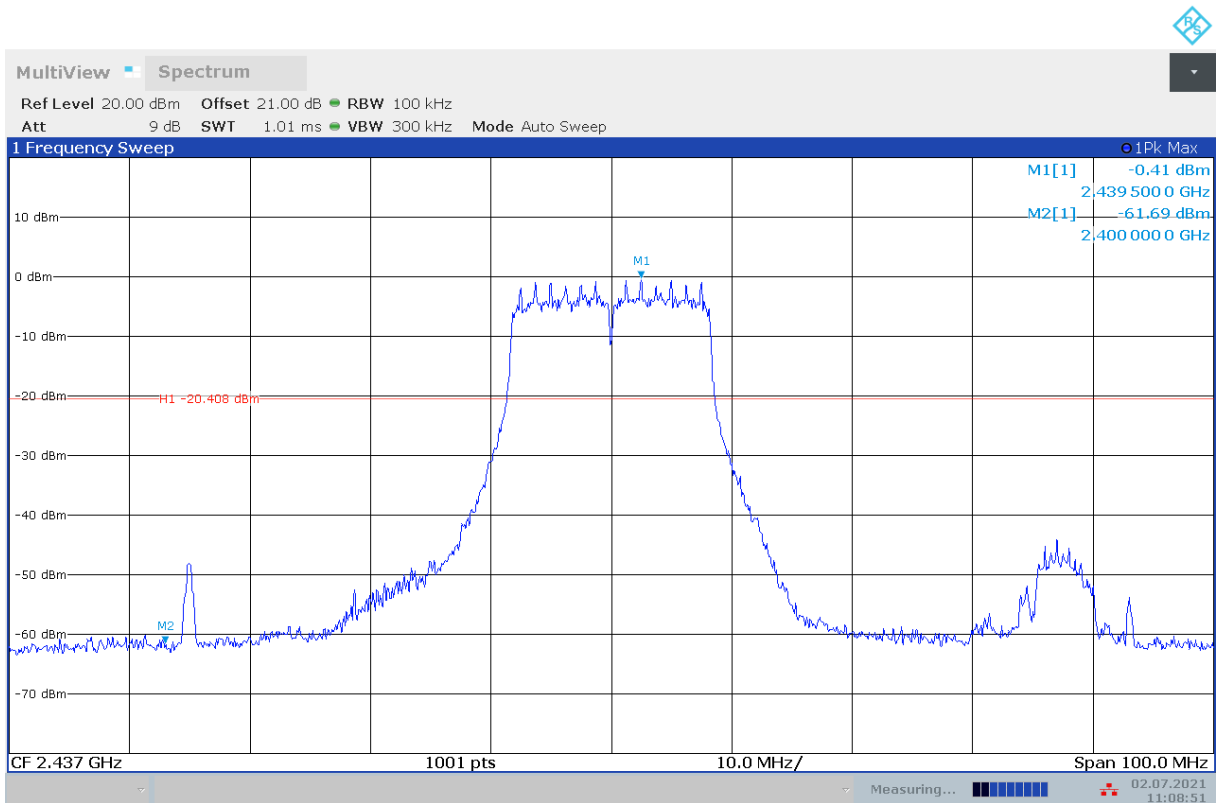


Fig.A.6.1.9 Transmitter Spurious Emission - Conducted (802.11g, Ch6, Center Frequency)

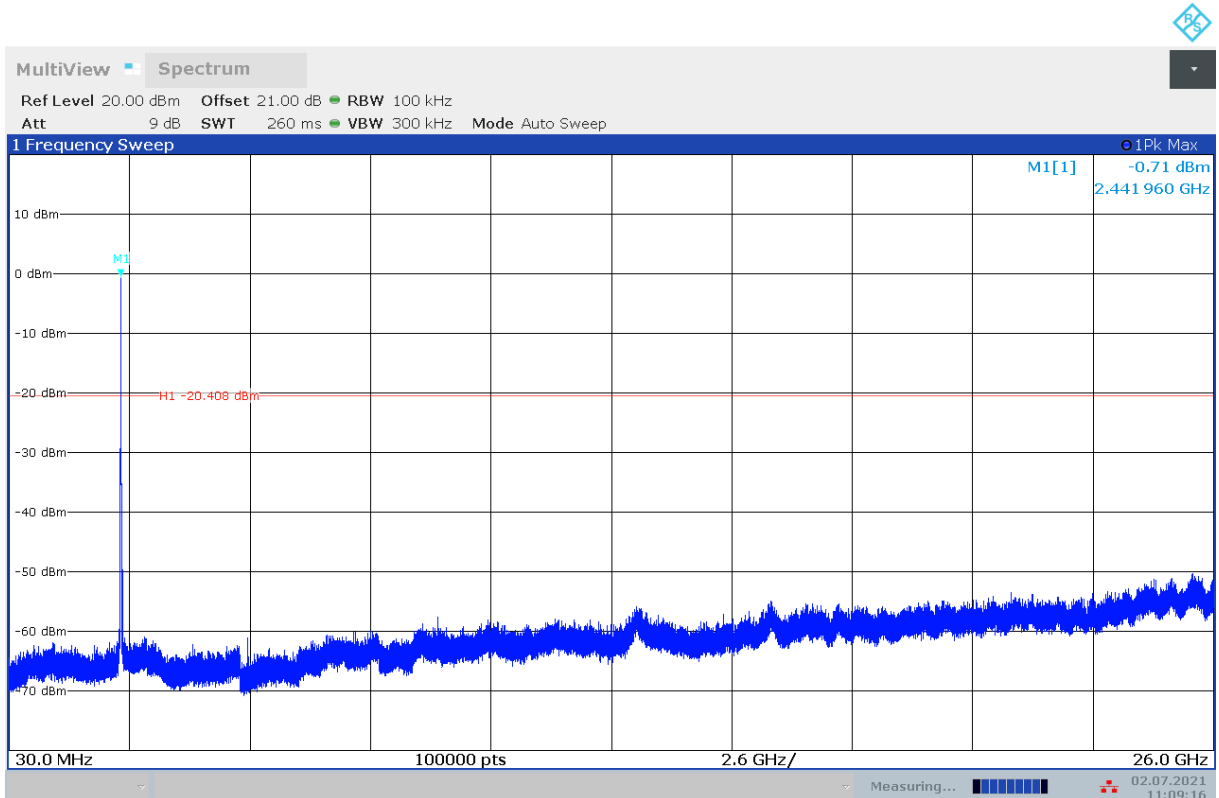


Fig.A.6.1.10 Transmitter Spurious Emission - Conducted (802.11g, Ch6, 30 MHz-26 GHz)

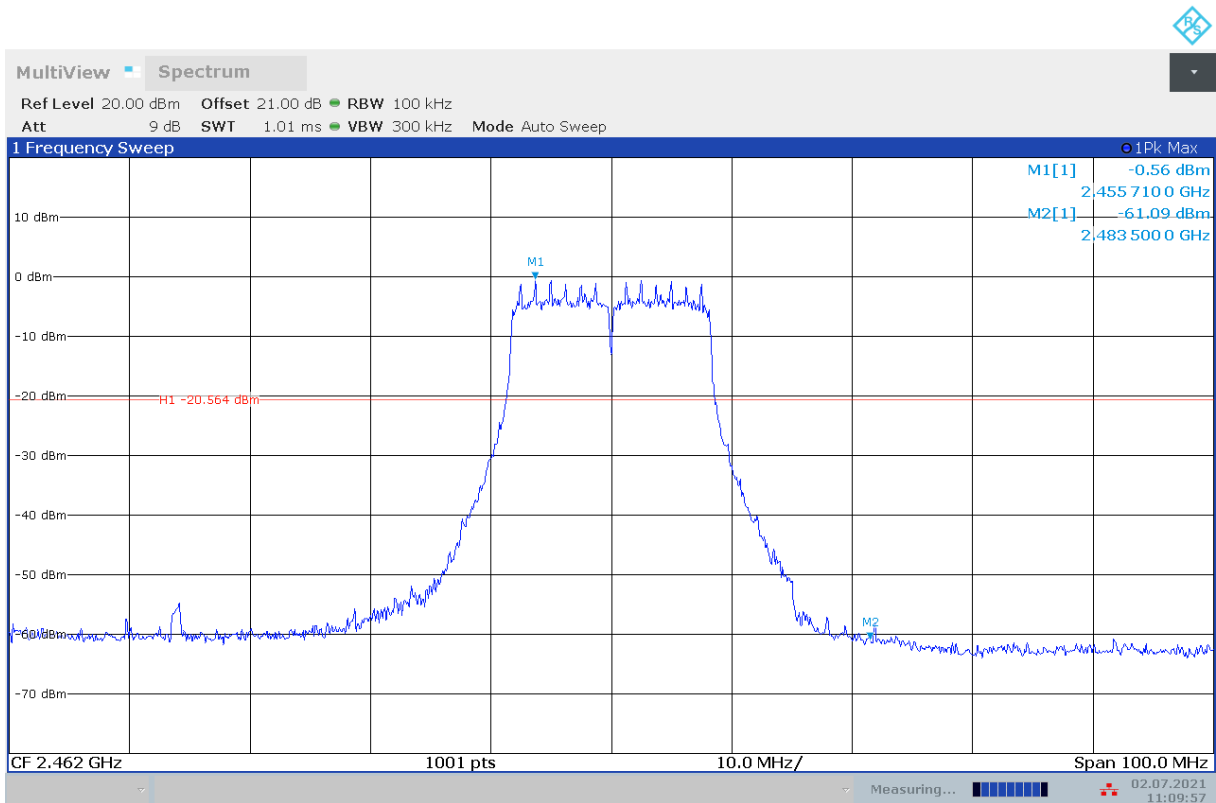


Fig.A.6.1.11 Transmitter Spurious Emission - Conducted (802.11g, Ch11, Center Frequency)

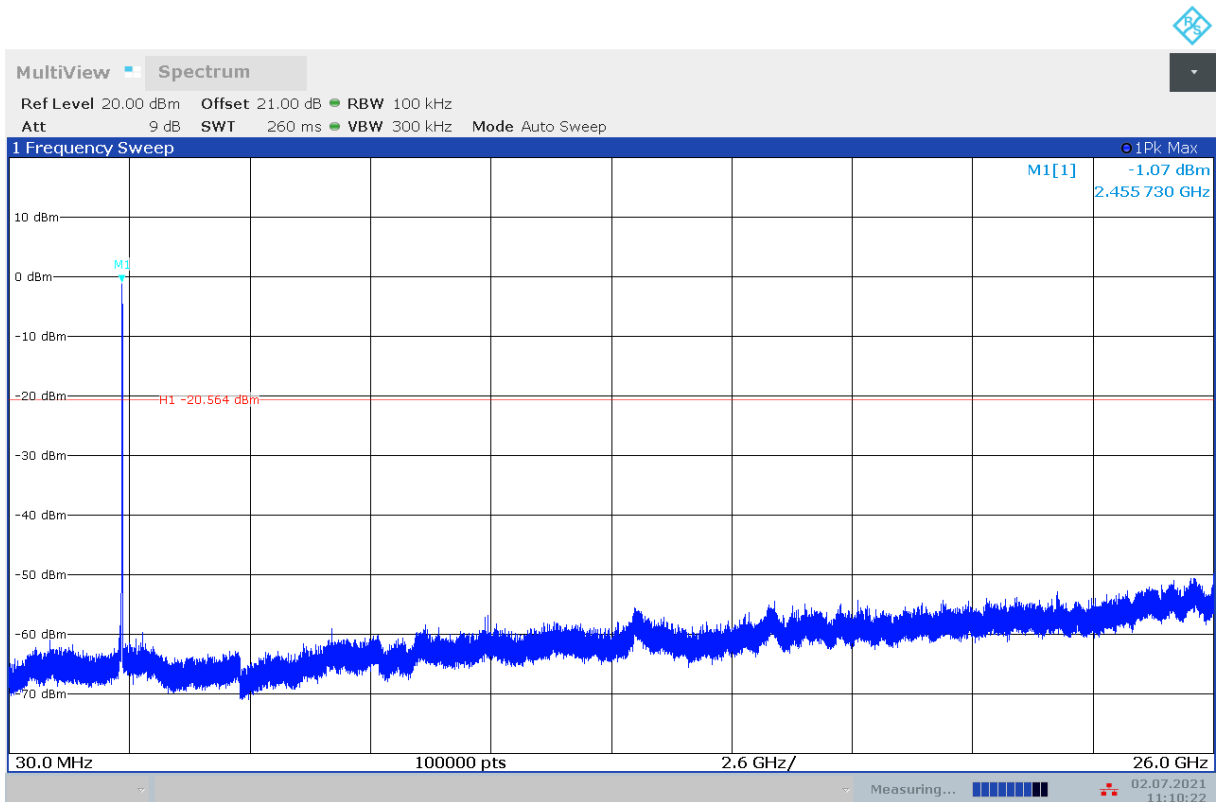


Fig.A.6.1.12 Transmitter Spurious Emission - Conducted (802.11g, Ch11, 30 MHz-26 GHz)

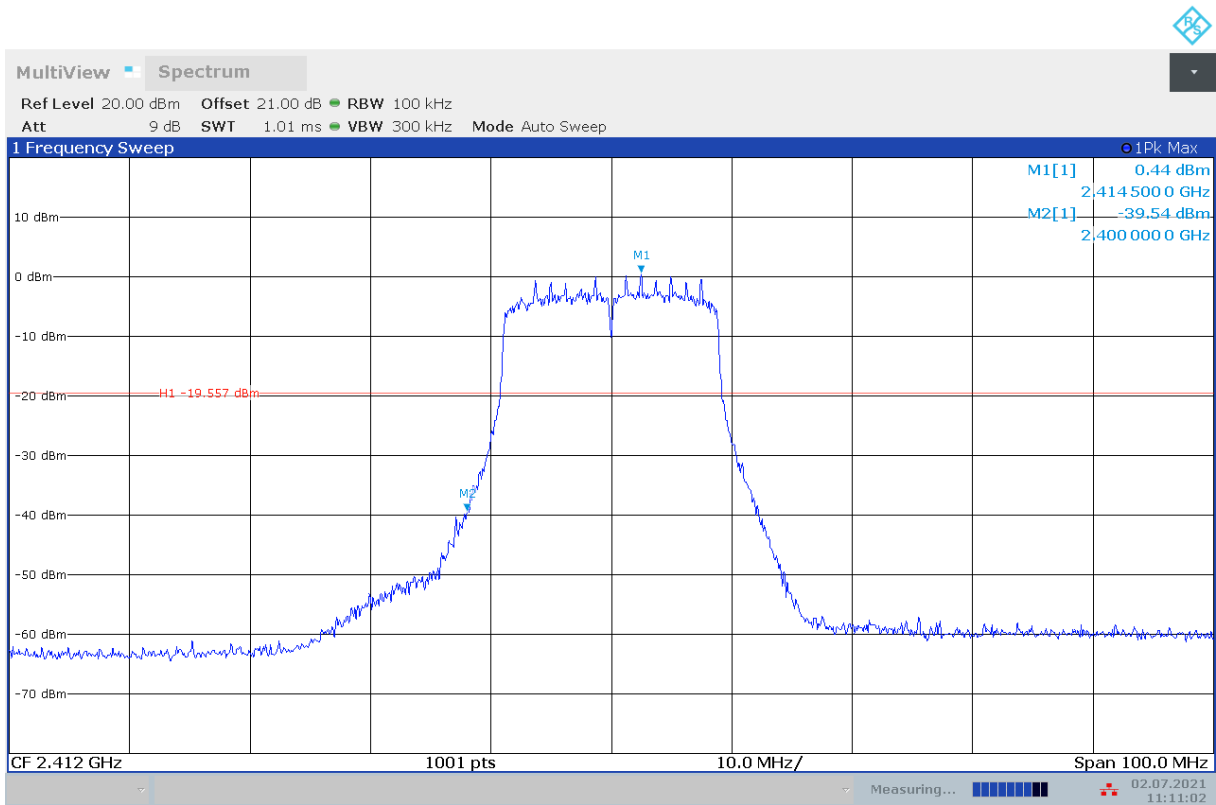


Fig.A.6.1.13 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch1, Center Frequency)

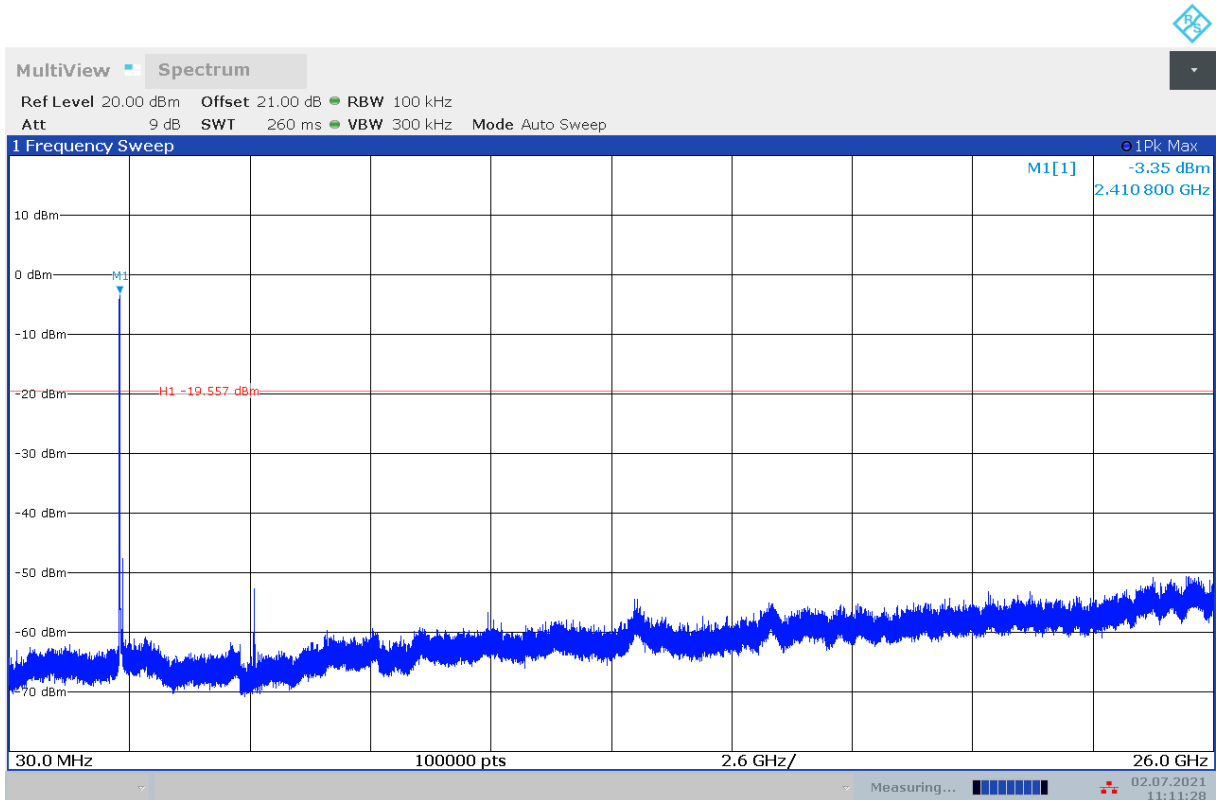


Fig.A.6.1.14 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch1, 30 MHz-26)

GHz)

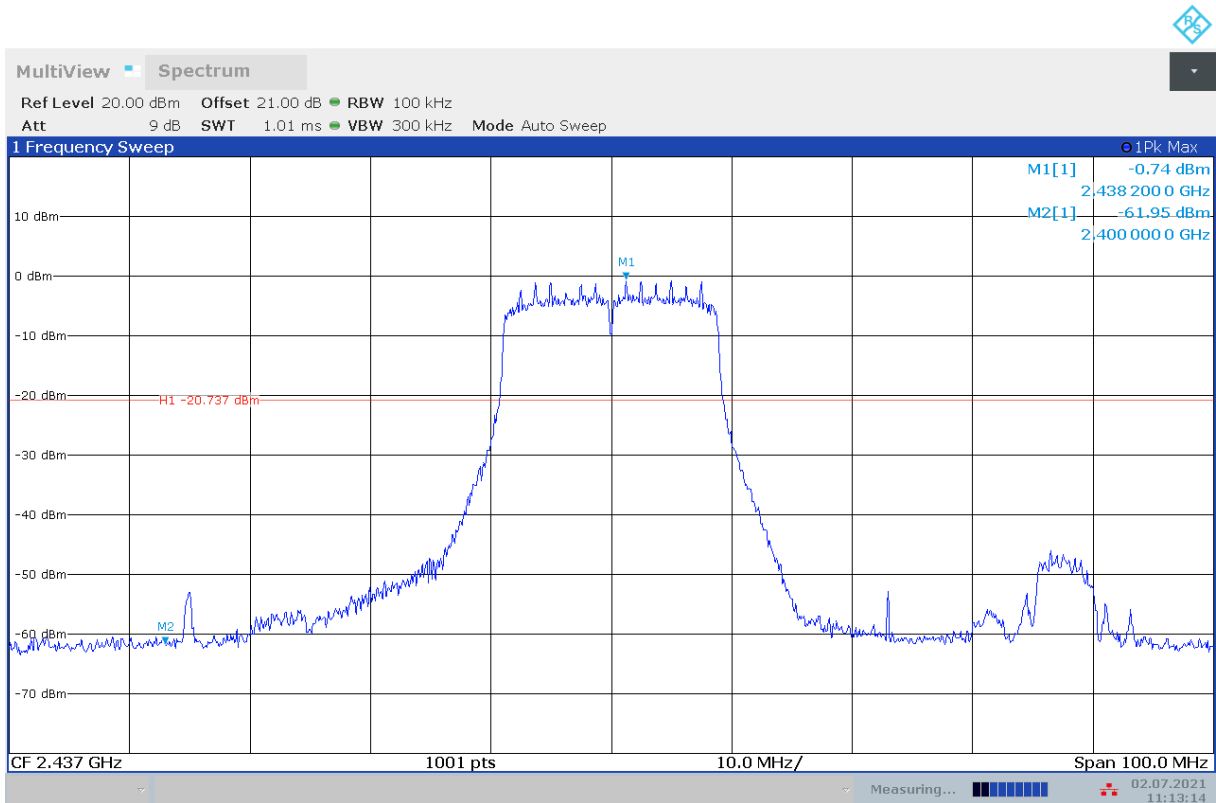


Fig.A.6.115 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, Center Frequency)

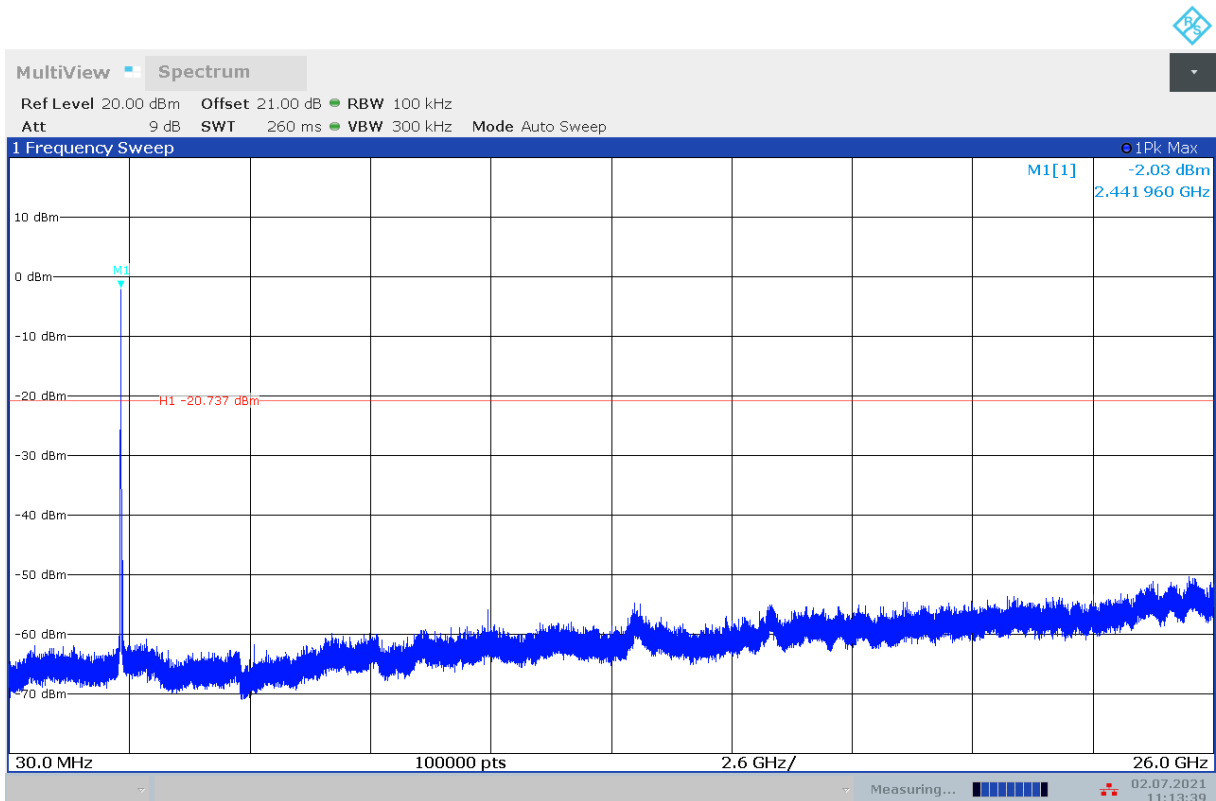


Fig.A.6.1.16 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 30 MHz-26 GHz)

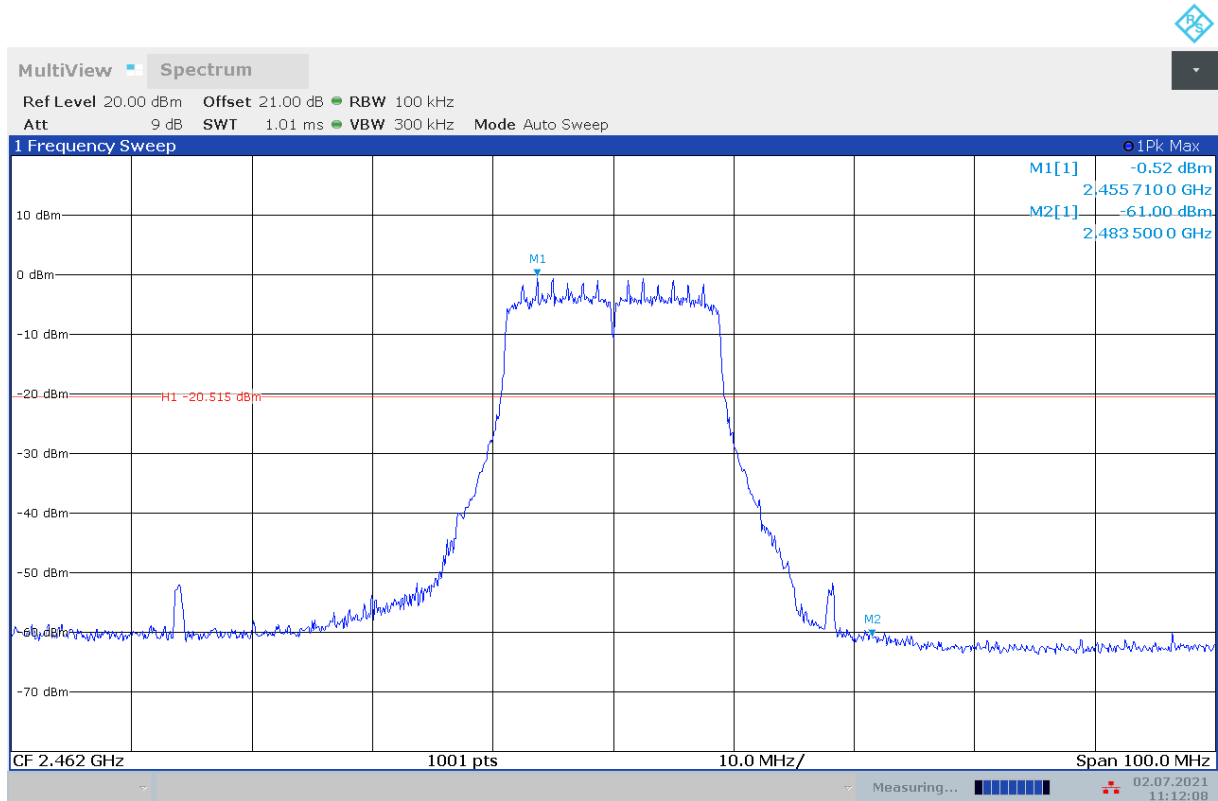


Fig.A.6.1.17 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, Center Frequency)

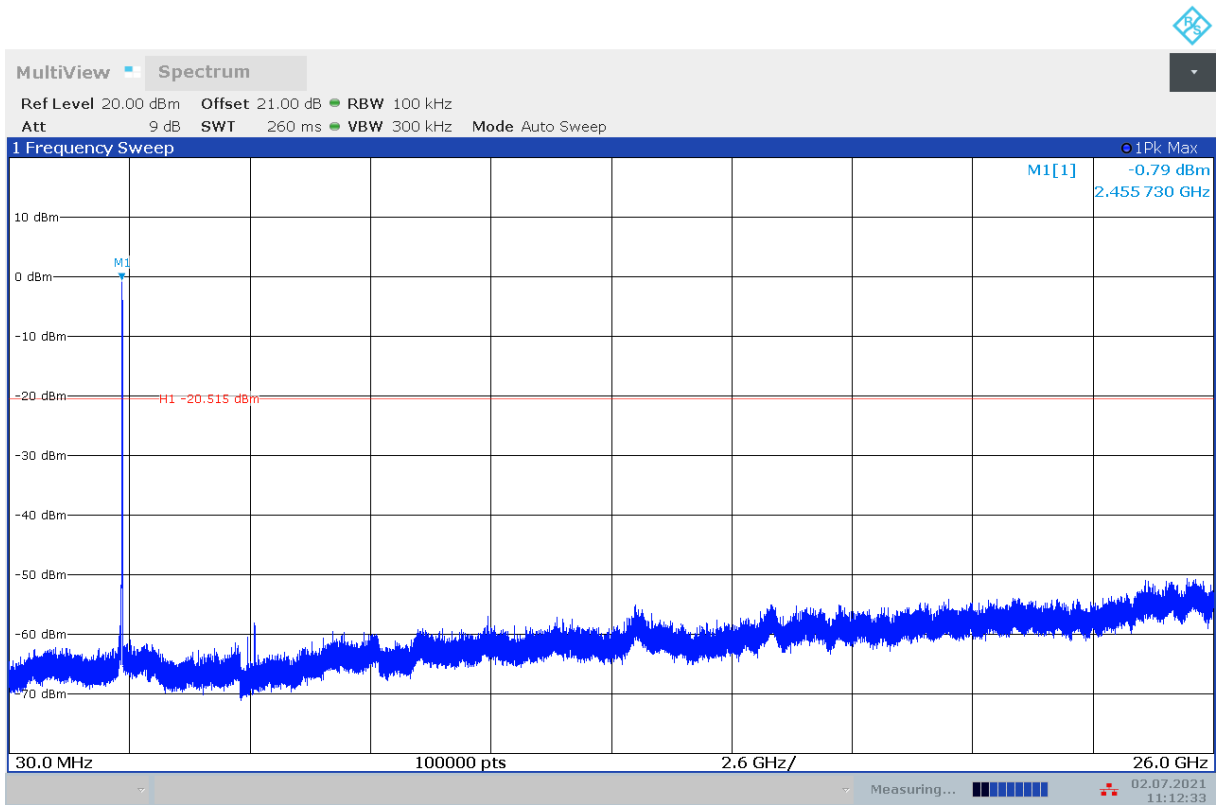


Fig.A.6.1.18 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 30 MHz-26 GHz)

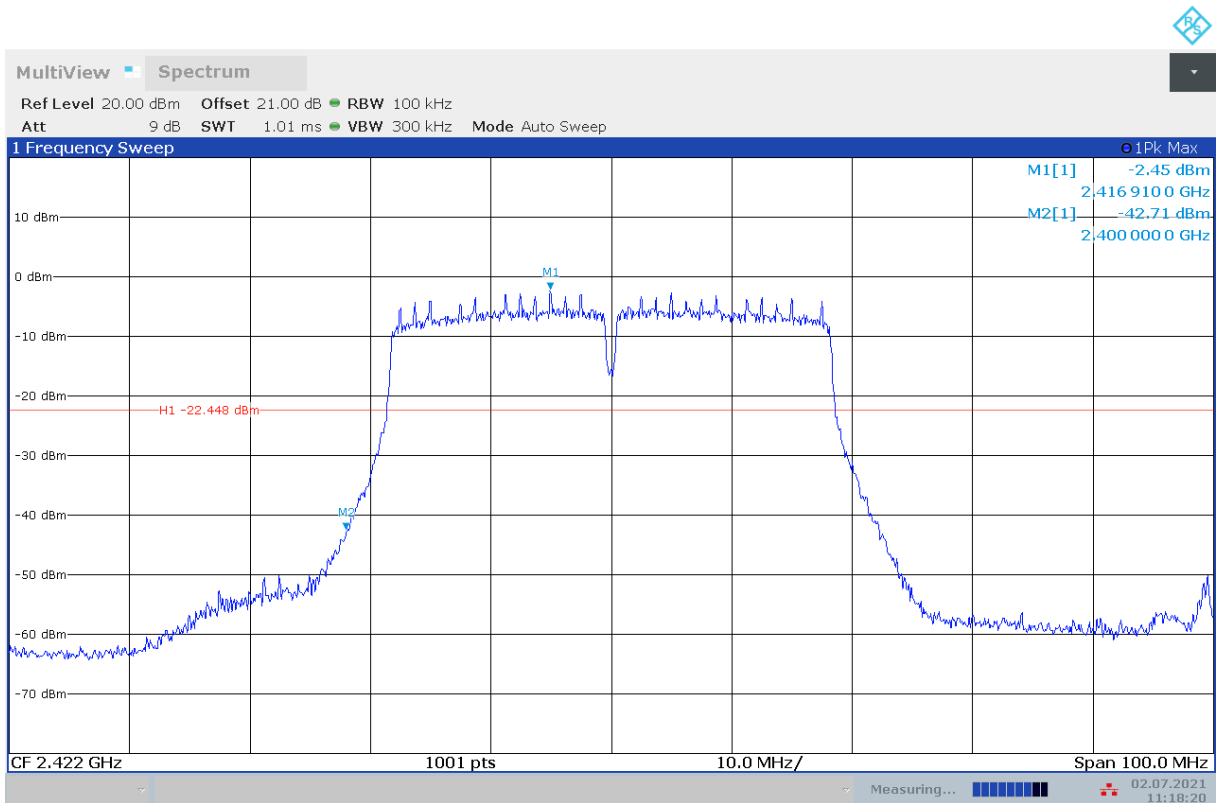


Fig.A.6.1.19 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch3, Center Frequency)

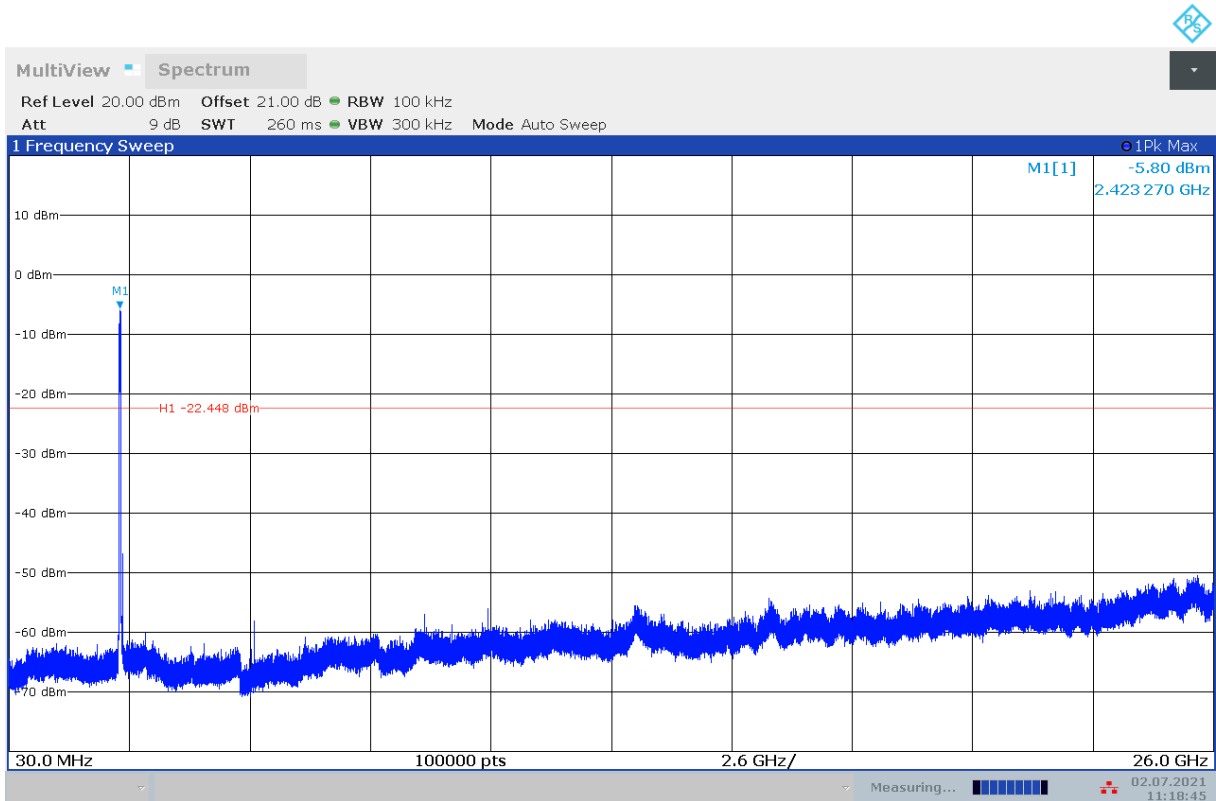


Fig.A.6.1.20 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch3, 30 MHz-26 GHz)

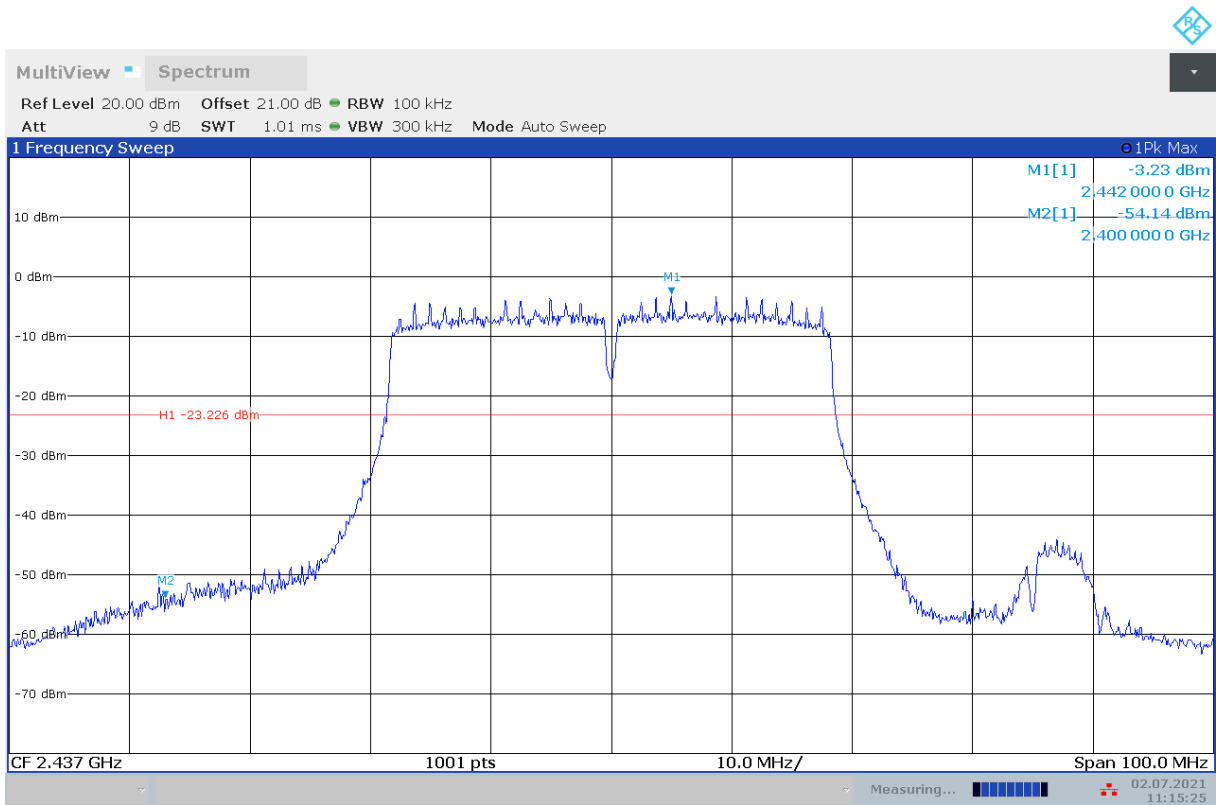


Fig.A.6.1.21 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, Center Frequency)

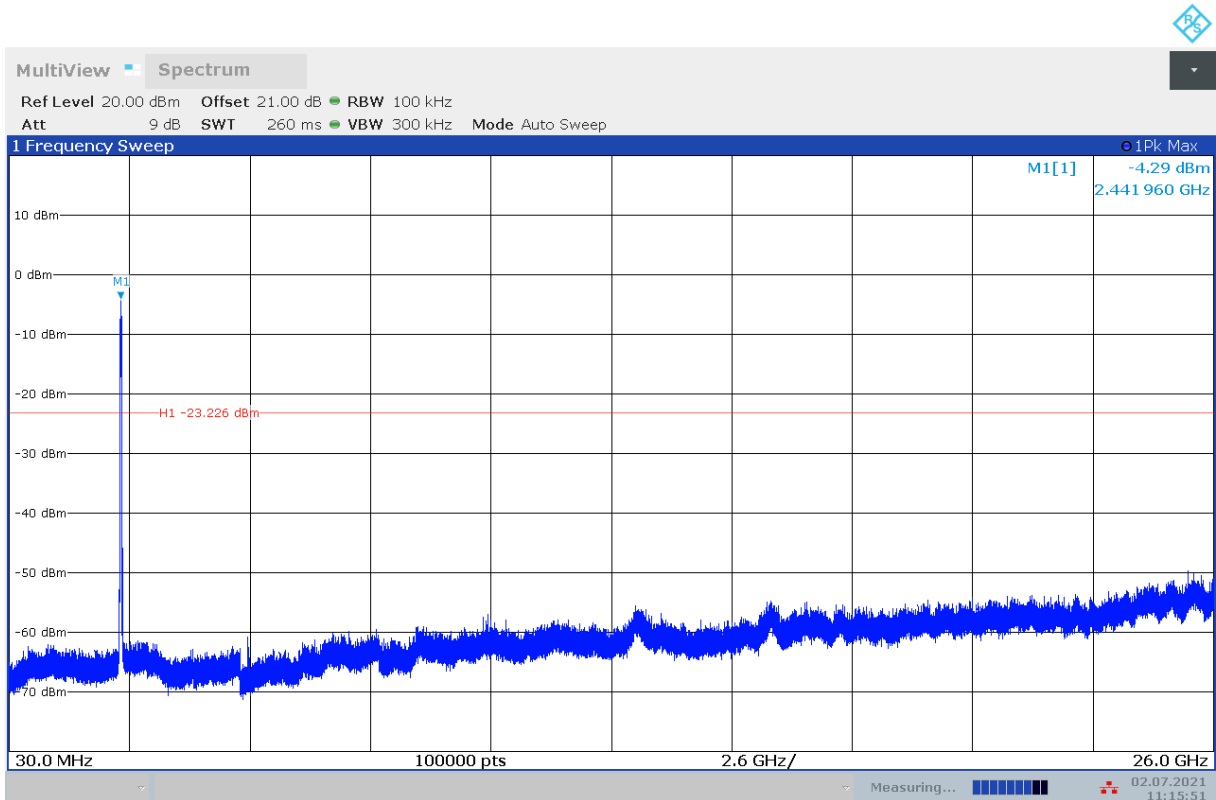


Fig.A.6.1.22 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 30 MHz-26

GHz)

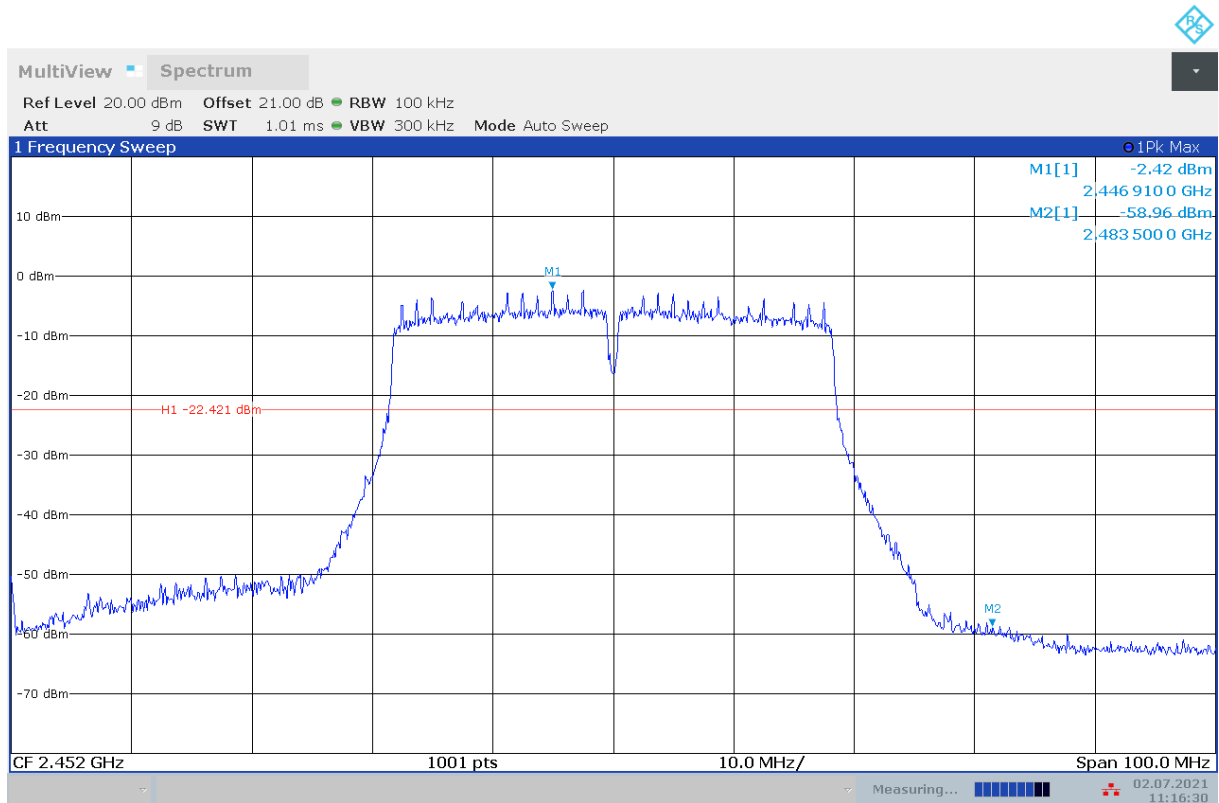


Fig.A.6.1.23 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, Center Frequency)

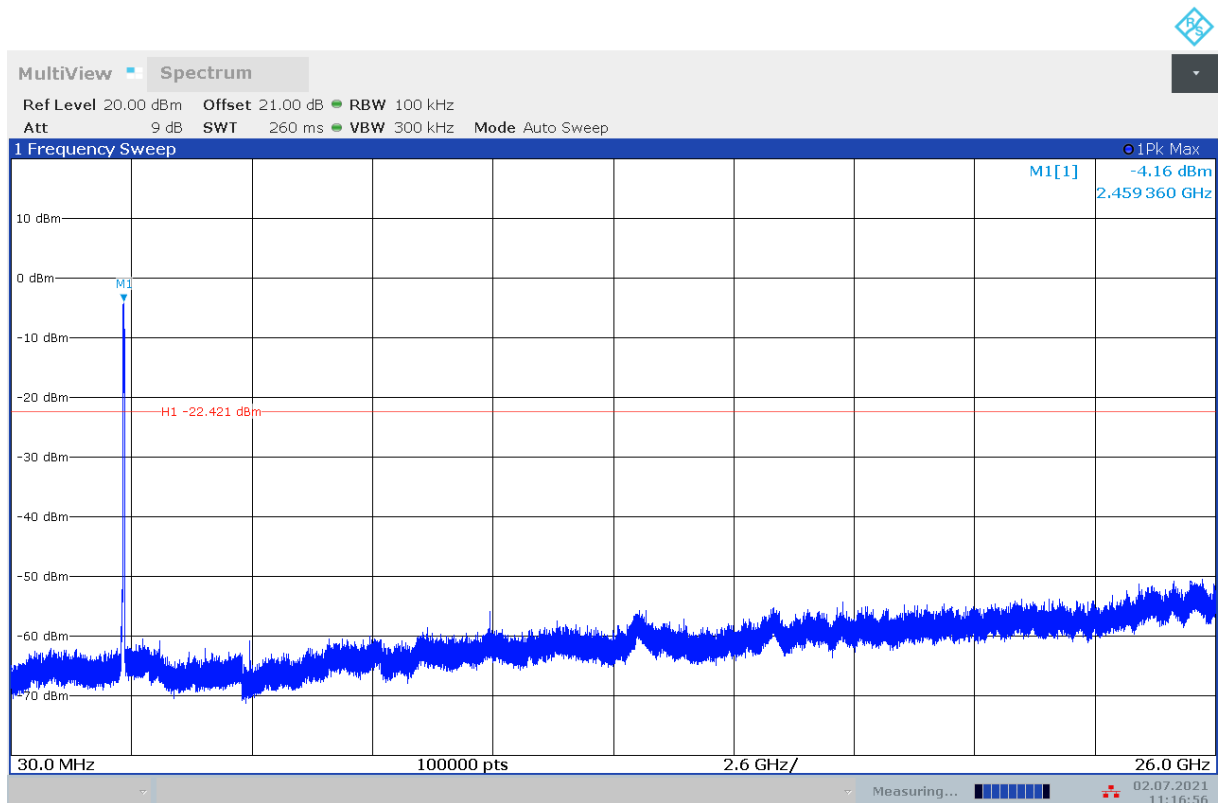


Fig.A.6.1.24 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 30 MHz-26 GHz)

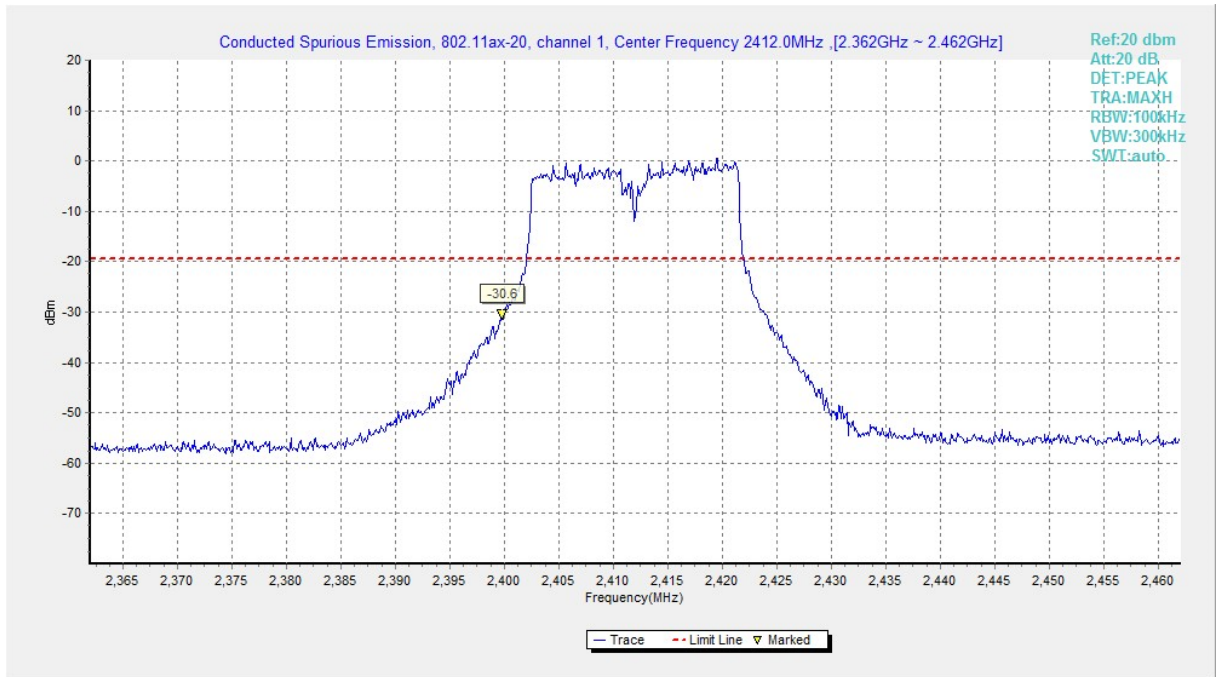


Fig.A.6.1.25 Transmitter Spurious Emission - Conducted (802.11ax-HE20, Ch1, Center Frequency)

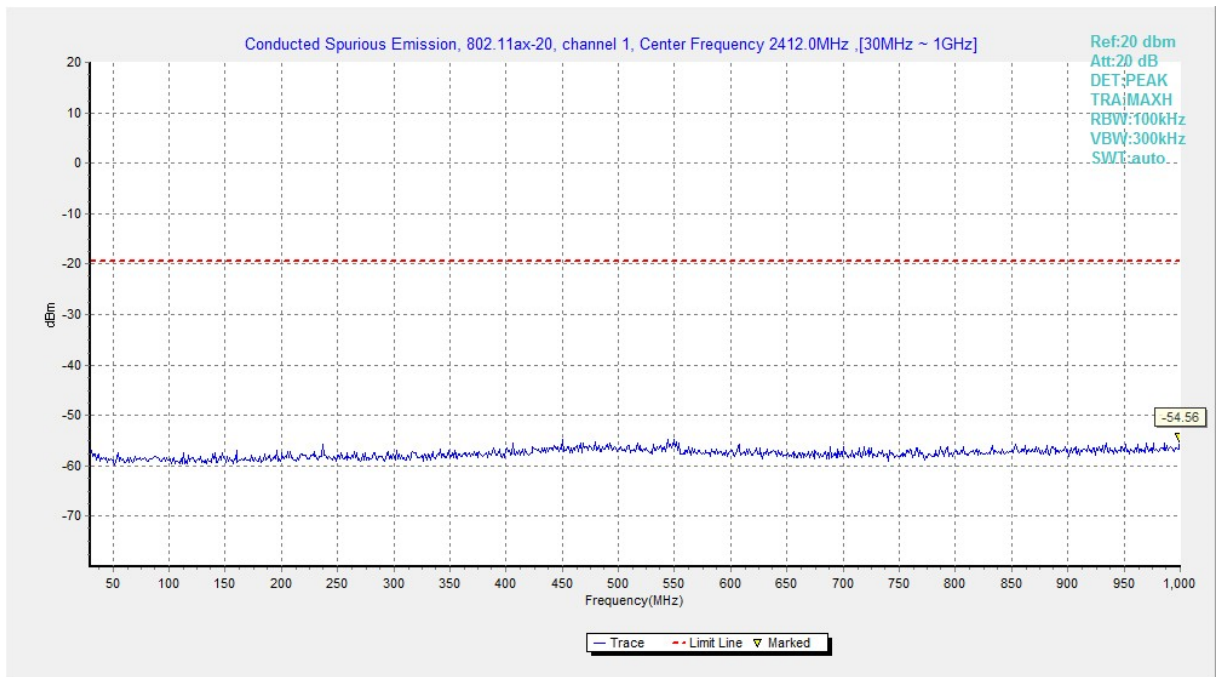


Fig.A.6.1.26 Transmitter Spurious Emission - Conducted (802.11ax-HE20, Ch1, 30 MHz-1 GHz)

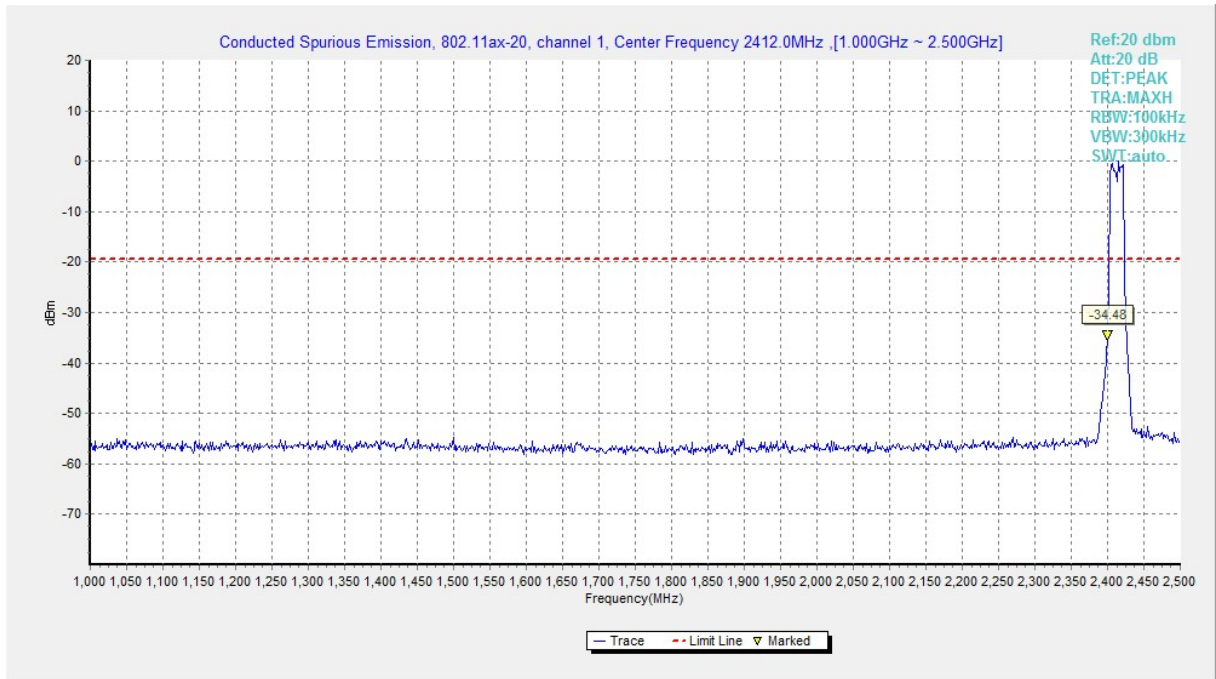


Fig.A.6.1.27 Transmitter Spurious Emission - Conducted (802.11ax-HE20, Ch1, 1 GHz-2.5 GHz)

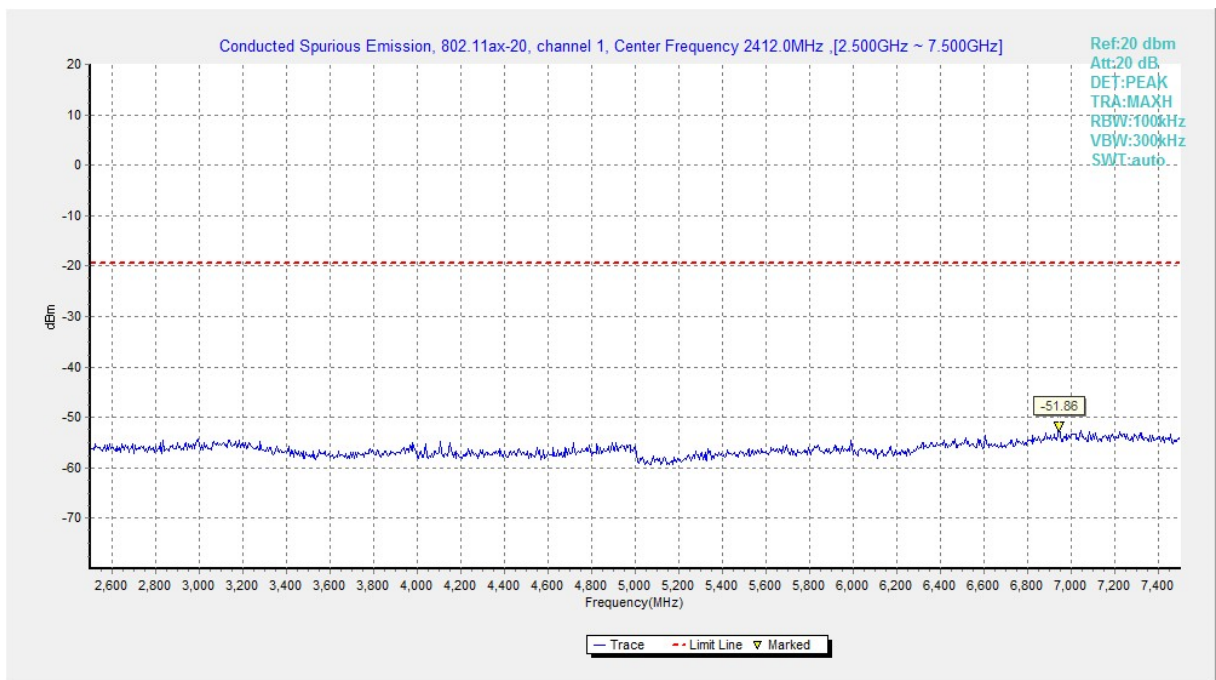


Fig.A.6.1.28 Transmitter Spurious Emission - Conducted (802.11ax-HE20, Ch1, 2.5 GHz-7.5 GHz)

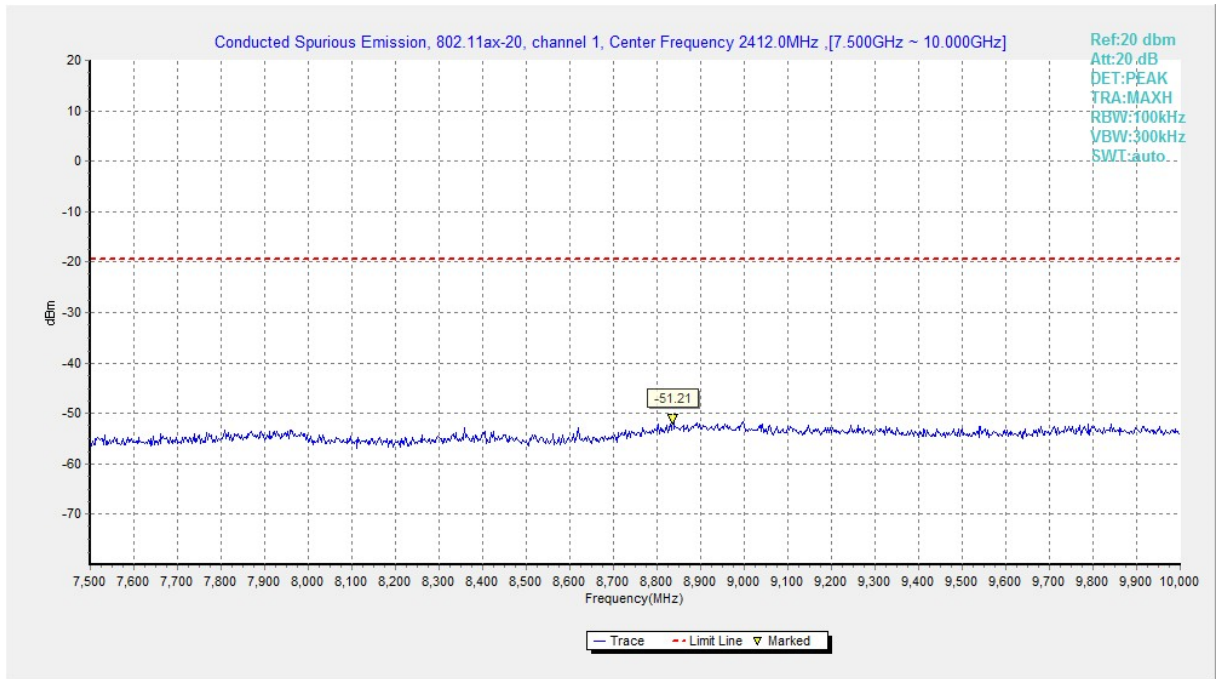


Fig.A.6.1.29 Transmitter Spurious Emission - Conducted (802.11ax-HE20, Ch1, 7.5 GHz-10 GHz)

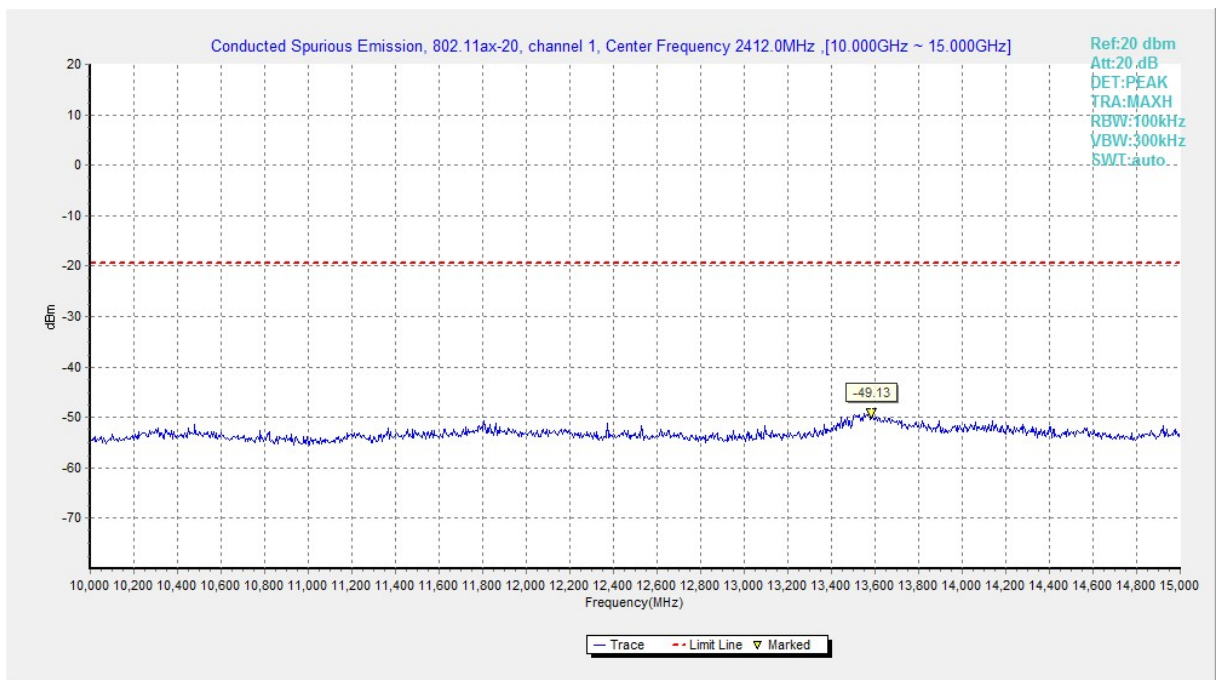


Fig.A.6.1.30 Transmitter Spurious Emission - Conducted (802.11ax-HE20, Ch1, 10 GHz-15 GHz)

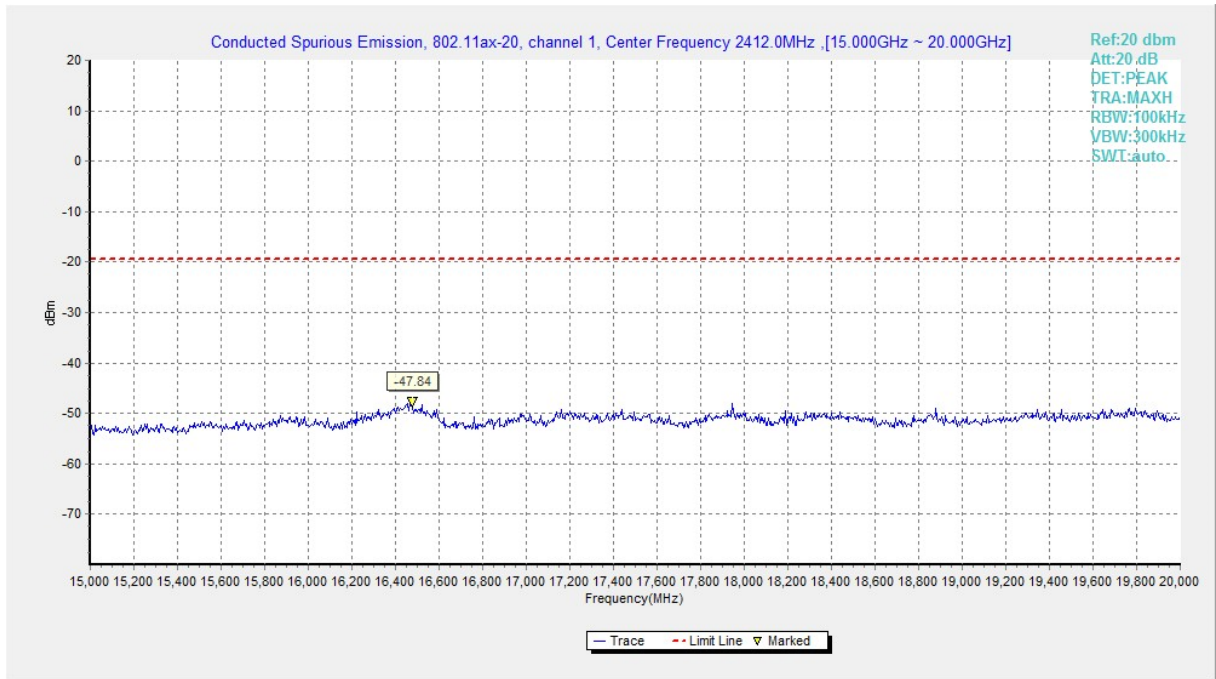


Fig.A.6.1.31 Transmitter Spurious Emission - Conducted (802.11ax-HE20, Ch1, 15 GHz-20 GHz)

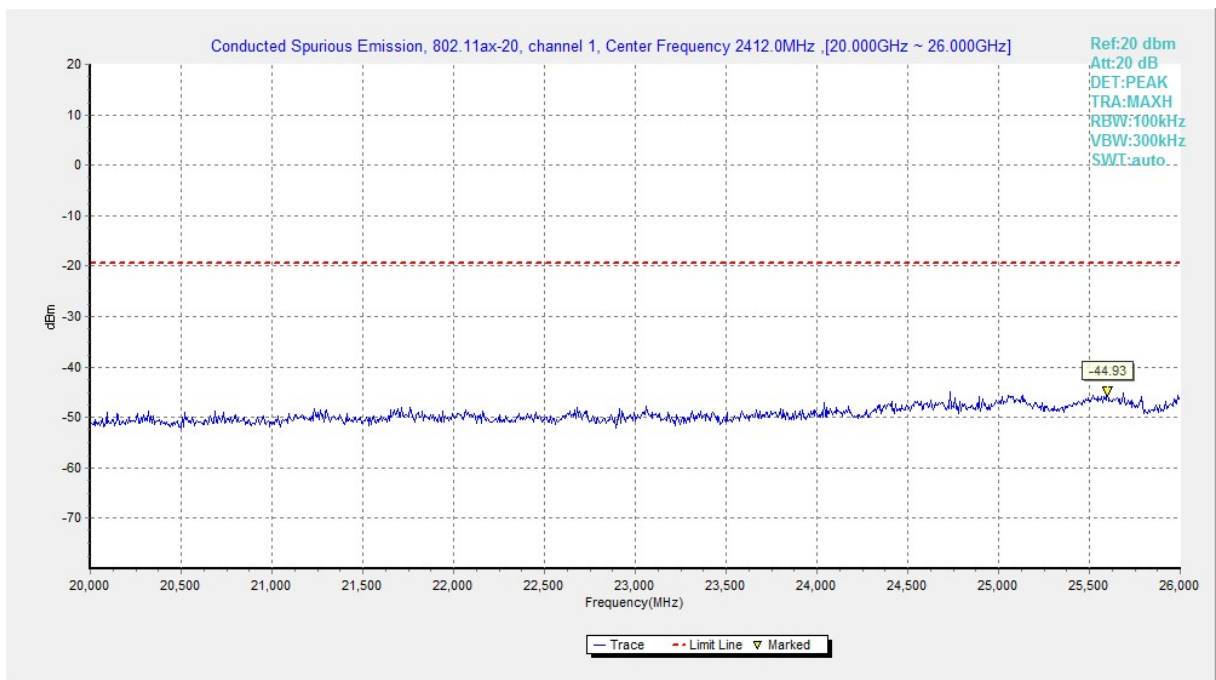


Fig.A.6.1.32 Transmitter Spurious Emission - Conducted (802.11ax-HE20, Ch1, 20 GHz-26 GHz)

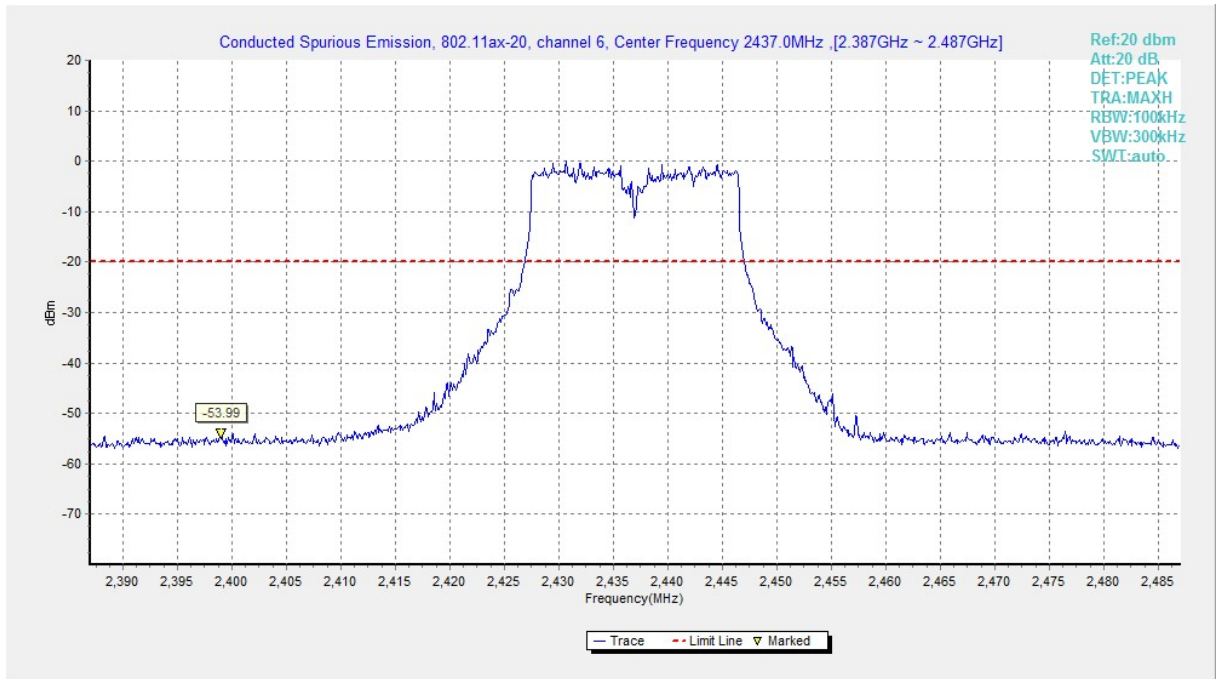


Fig.A.6.1.33 Transmitter Spurious Emission - Conducted (802.11ax-HE20, Ch6, Center Frequency)

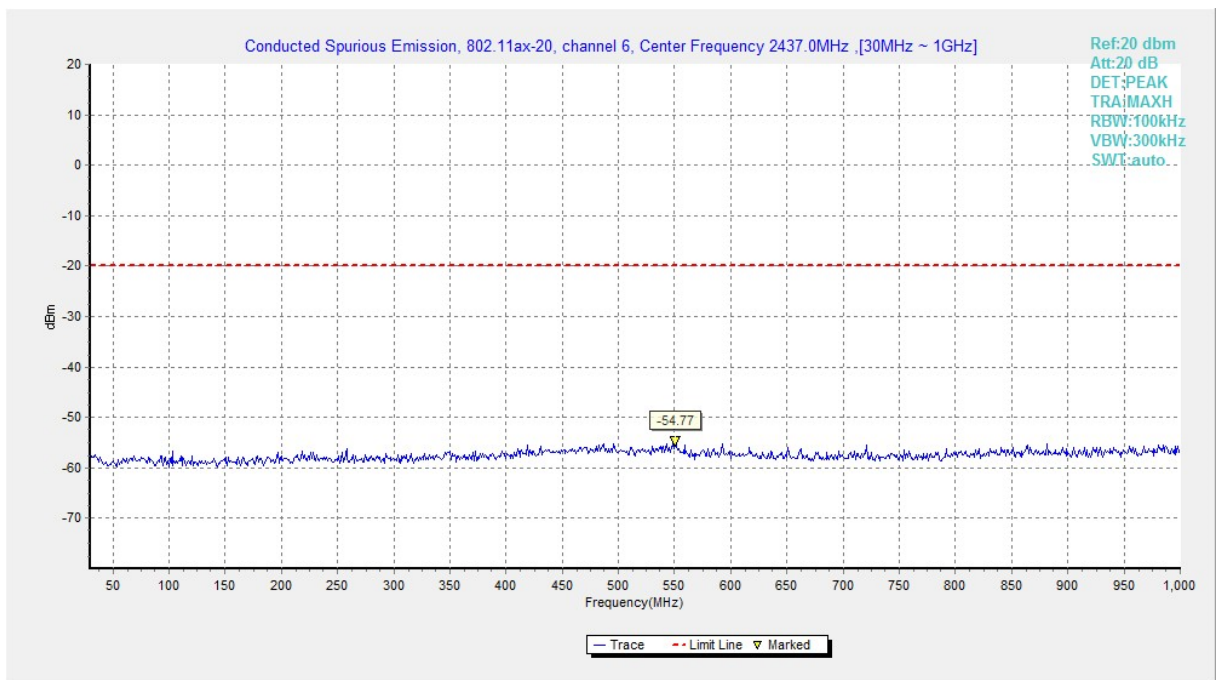


Fig.A.6.1.34 Transmitter Spurious Emission - Conducted (802.11ax-HE20, Ch6, 30 MHz-1 GHz)

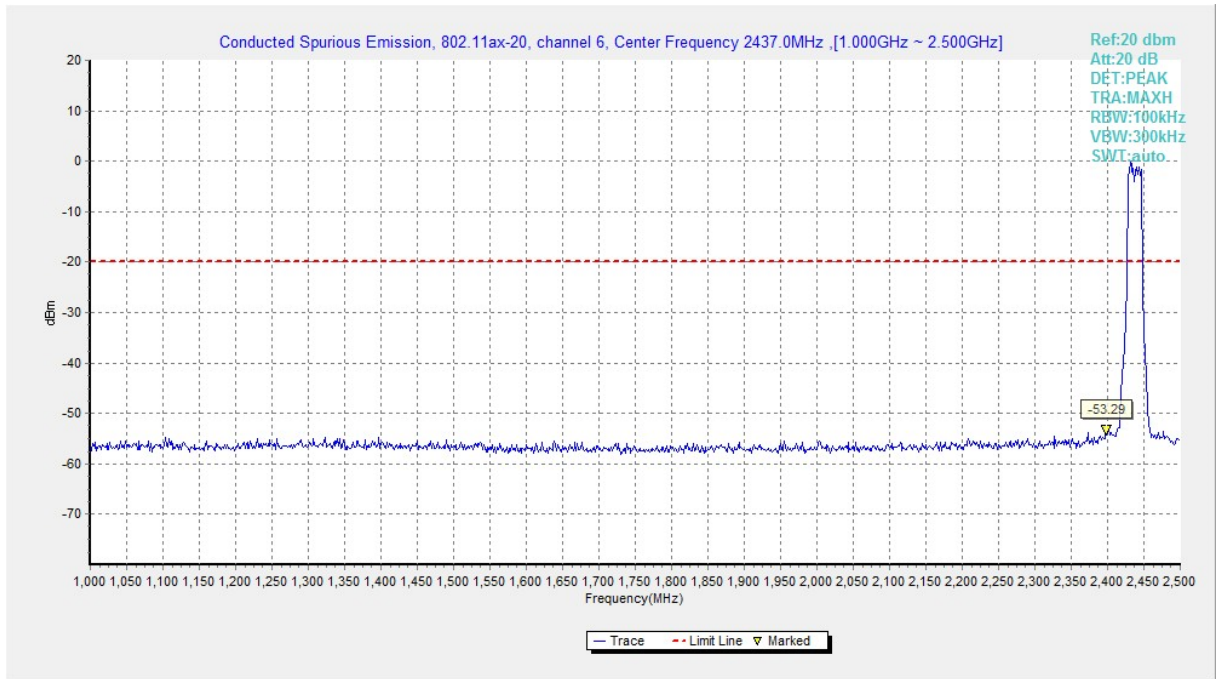


Fig.A.6.1.35 Transmitter Spurious Emission - Conducted (802.11ax-HE20, Ch6, 1 GHz-2.5 GHz)

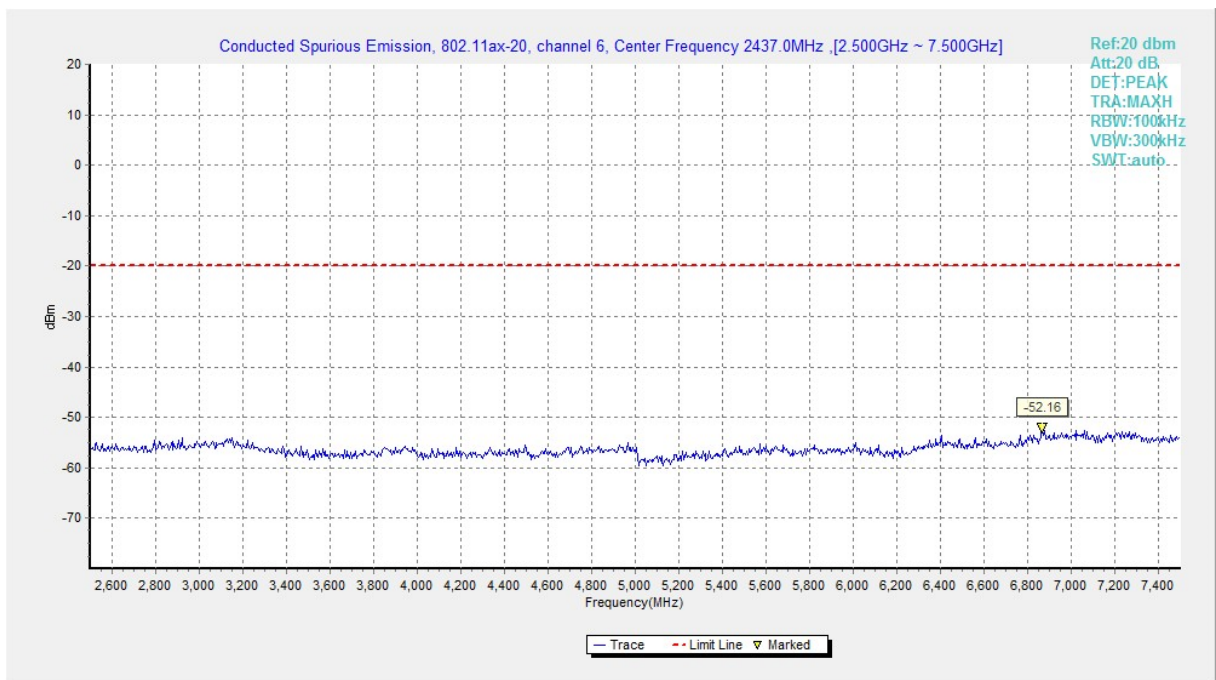


Fig.A.6.1.36 Transmitter Spurious Emission - Conducted (802.11ax-HE20, Ch6, 2.5 GHz-7.5 GHz)