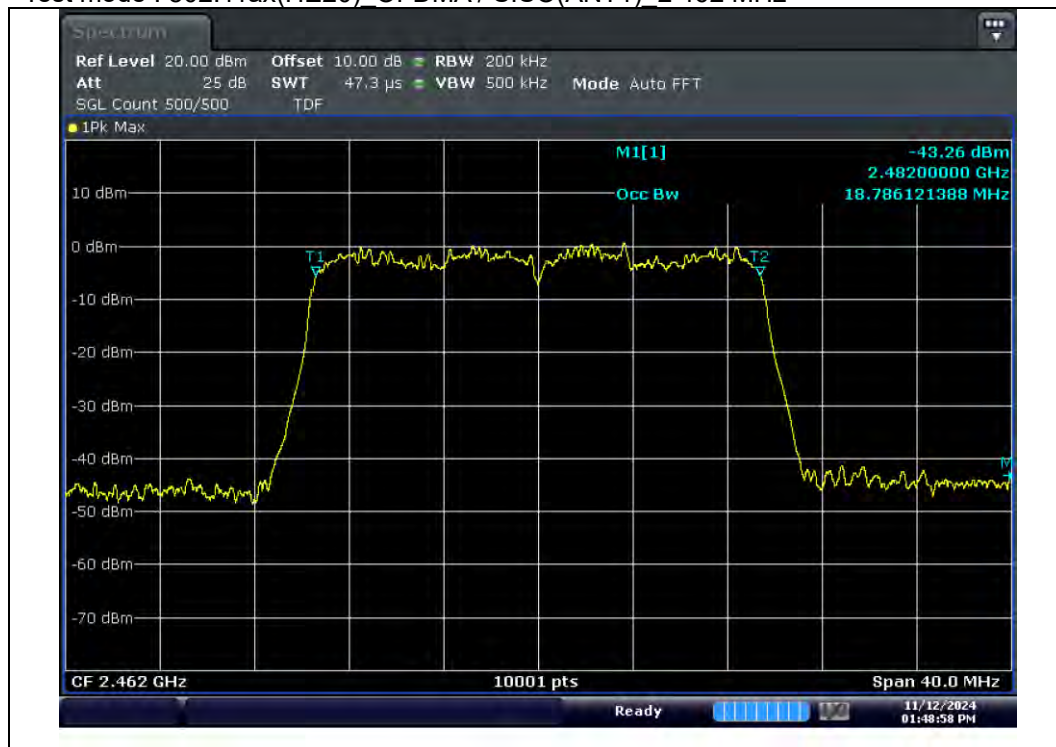
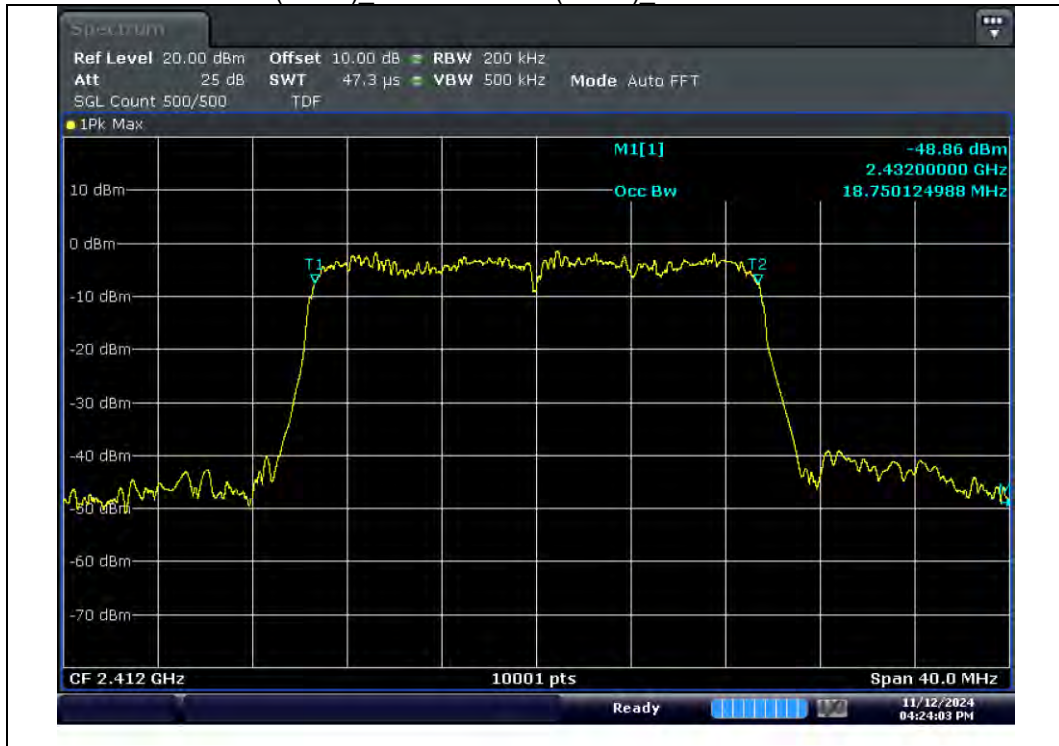


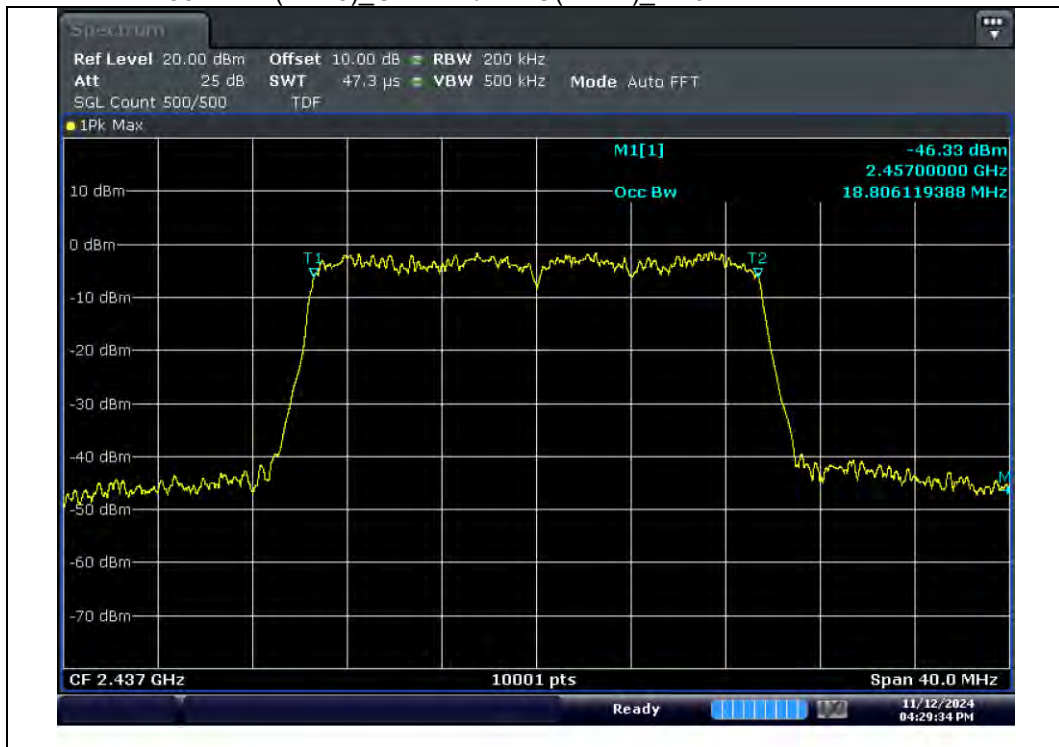
Test mode : 802.11ax(HE20) OFDMA / SISO(ANT1) 2 462 MHz



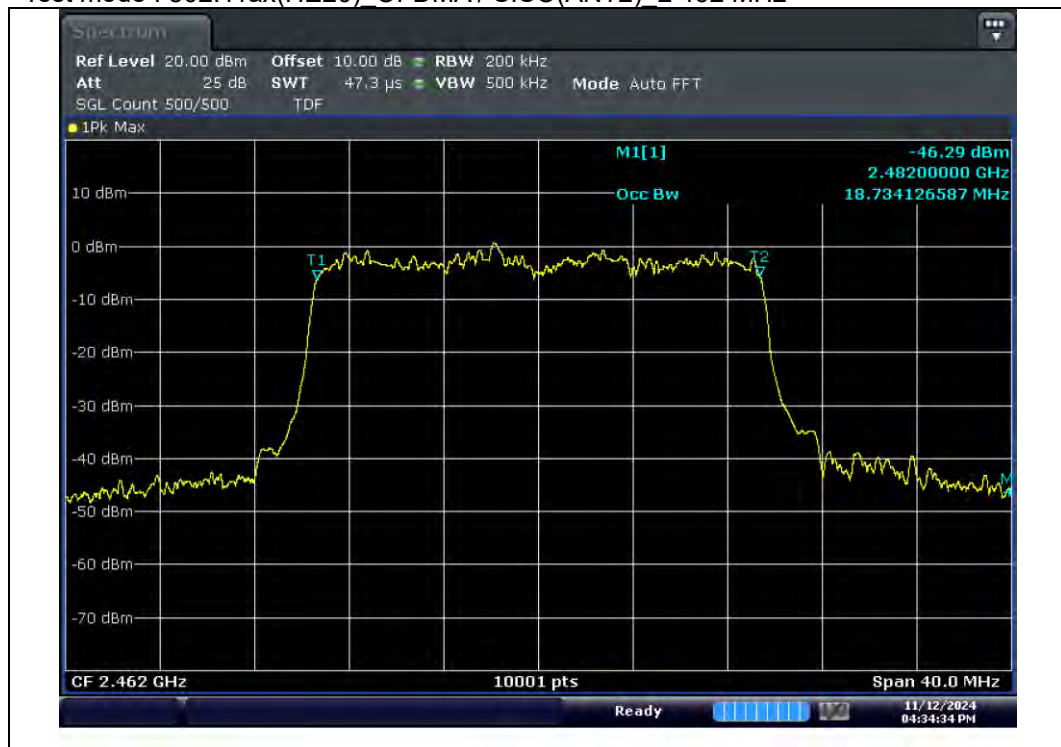
Test mode : 802.11ax(HE20)_OFDMA / SISO(ANT2)_2 412 MHz



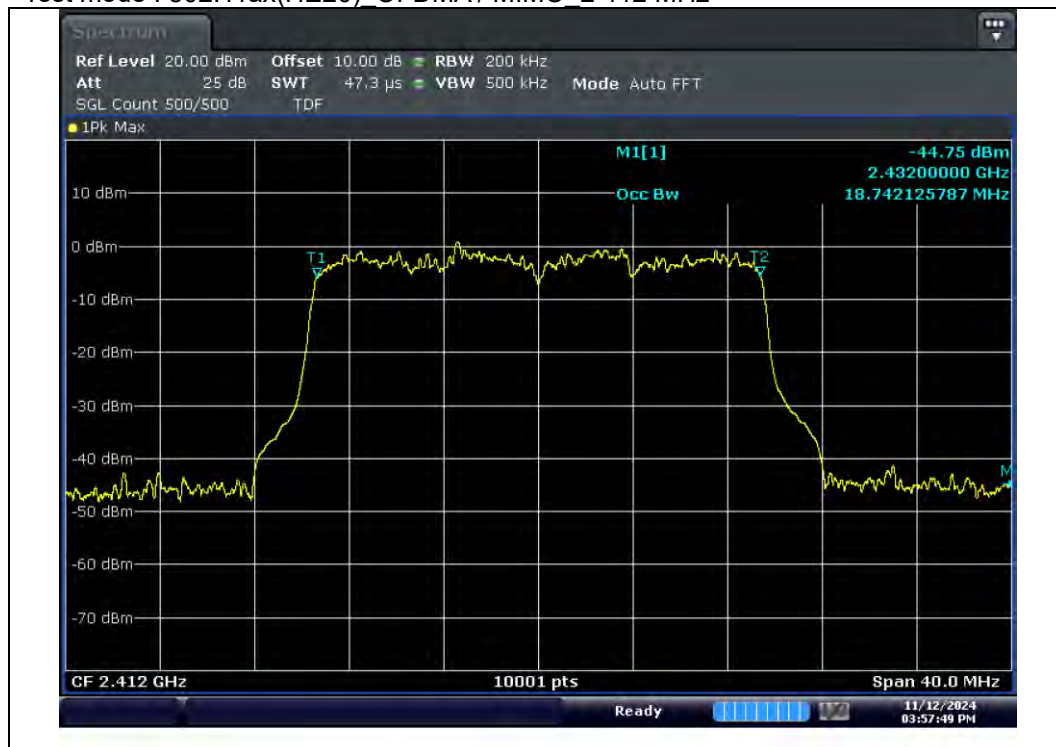
Test mode : 802.11ax(HE20)_OFDMA / SISO(ANT2)_2 437 MHz



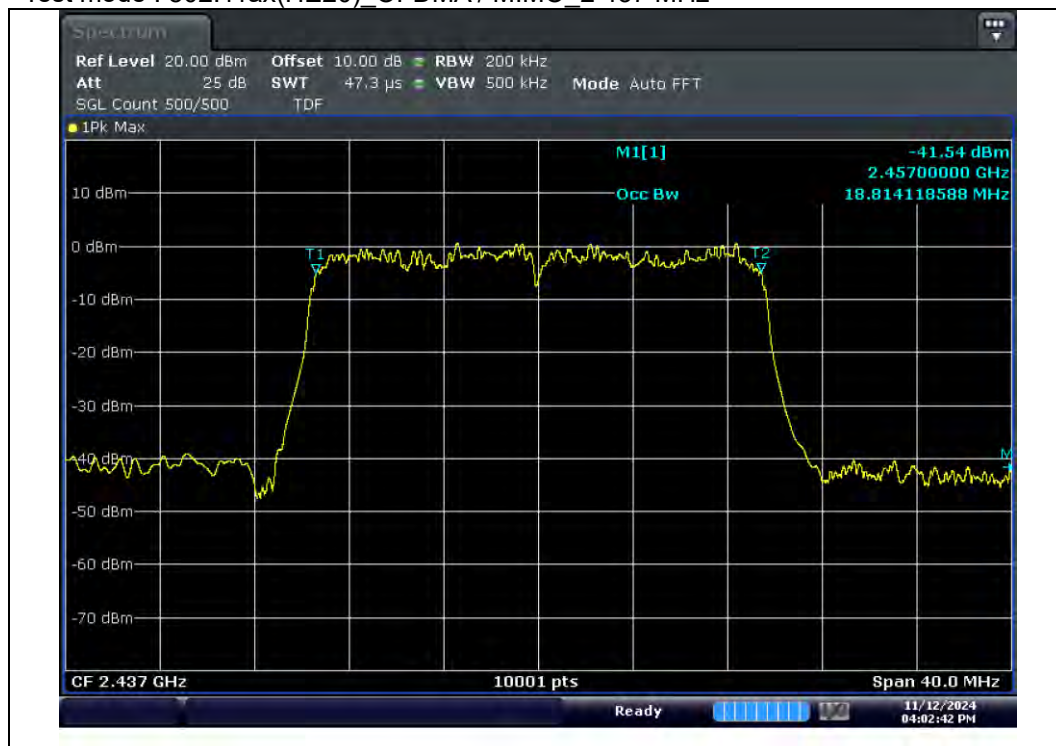
Test mode : 802.11ax(HE20) OFDMA / SISO(ANT2) 2 462 MHz



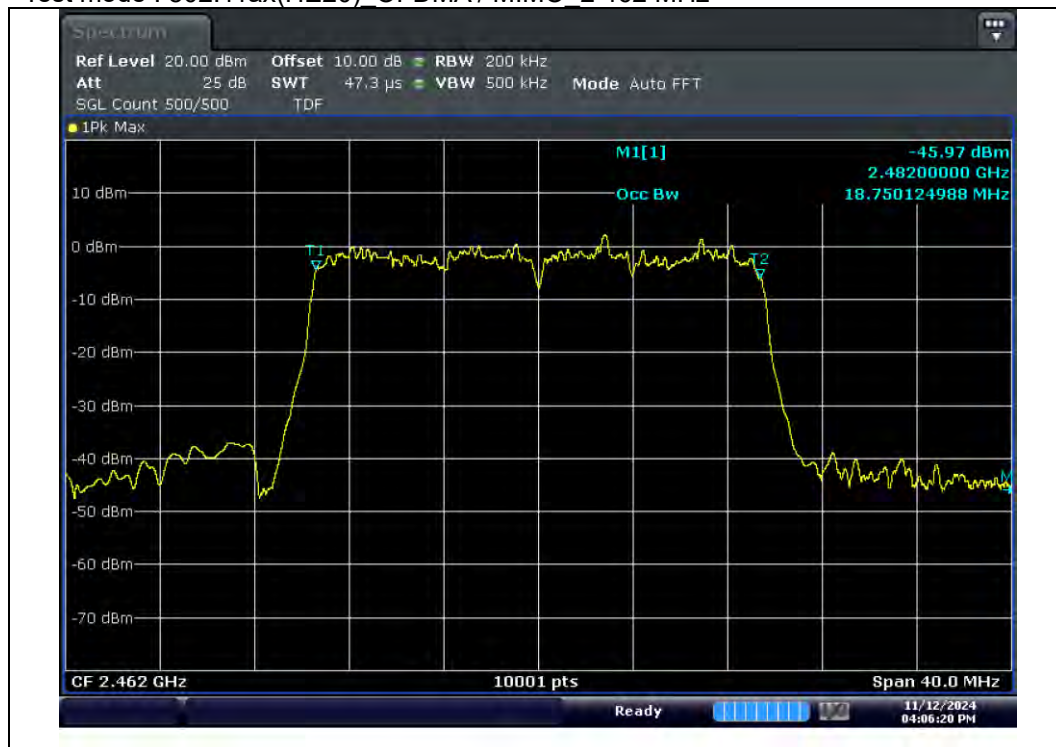
Test mode : 802.11ax(HE20)_OFDMA / MIMO_2 412 MHz



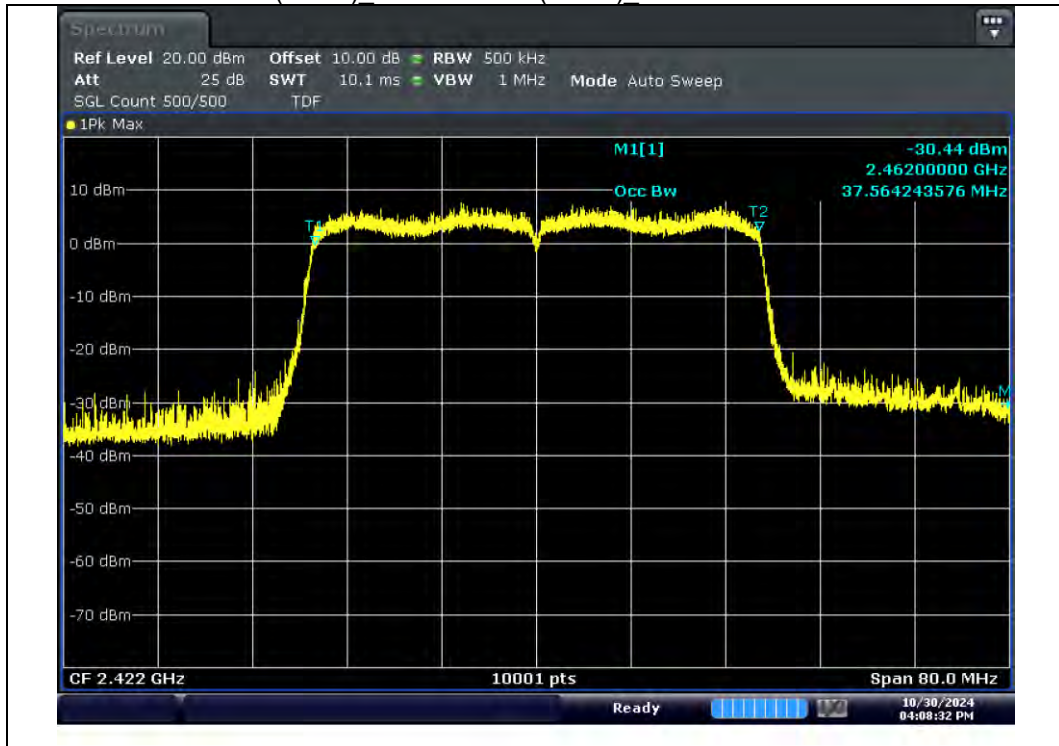
Test mode : 802.11ax(HE20)_OFDMA / MIMO_2 437 MHz



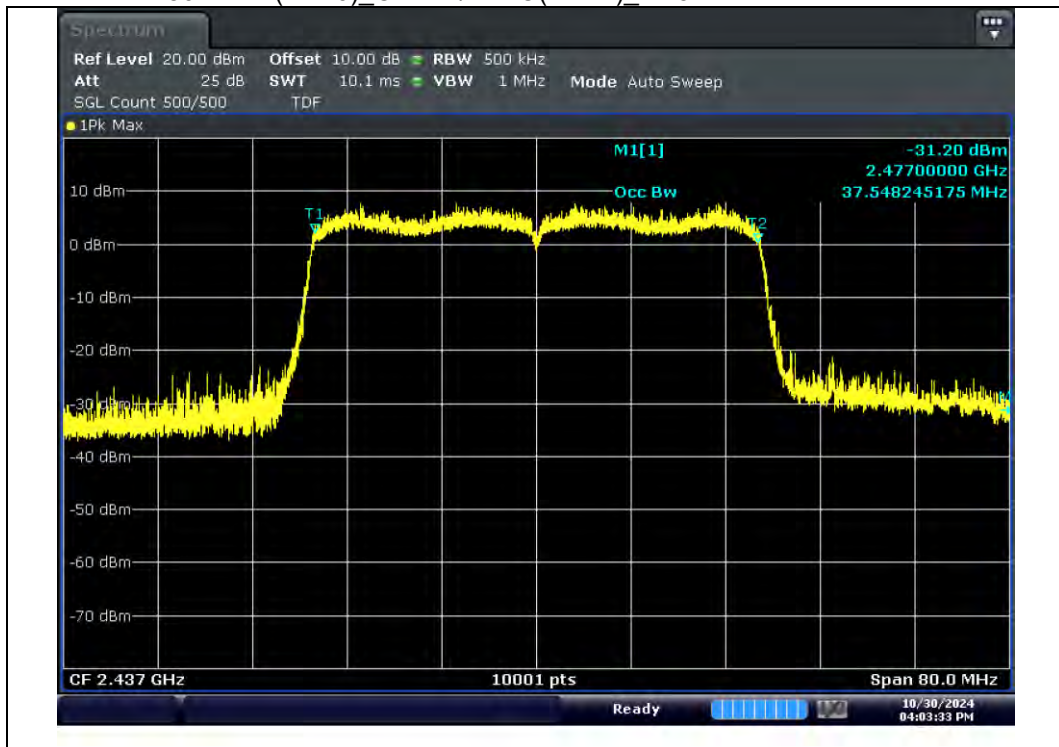
Test mode : 802.11ax(HE20) OFDMA / MIMO 2 462 MHz



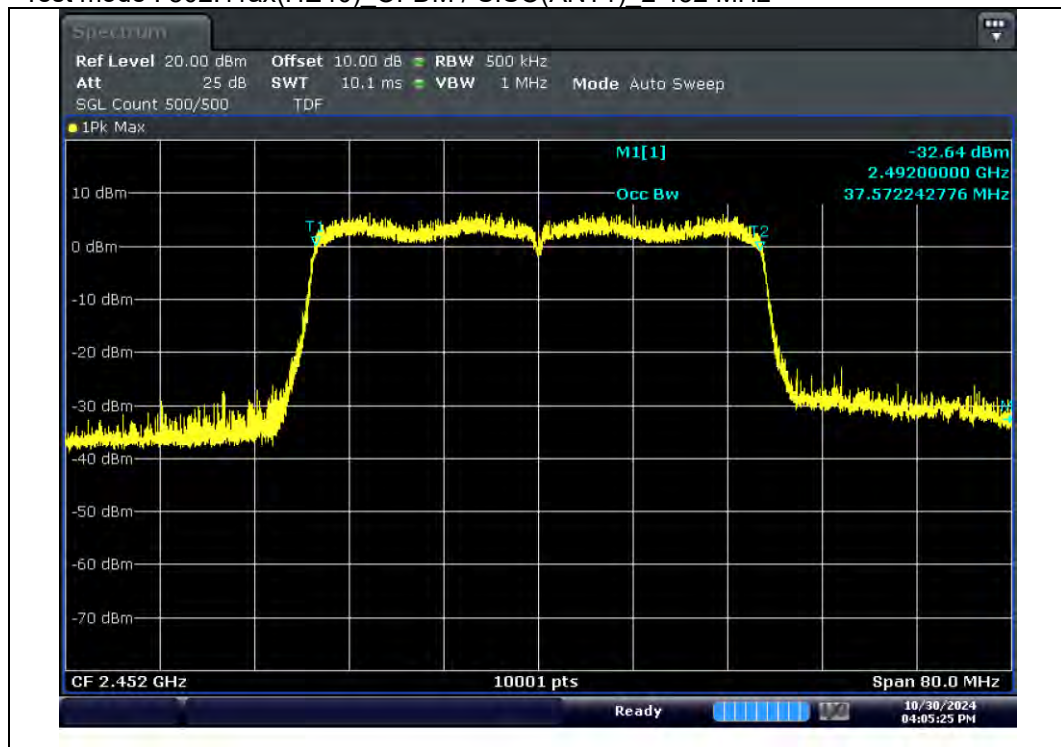
Test mode : 802.11ax(HE40)_OFDM / SISO(ANT1)_ 2 422 MHz



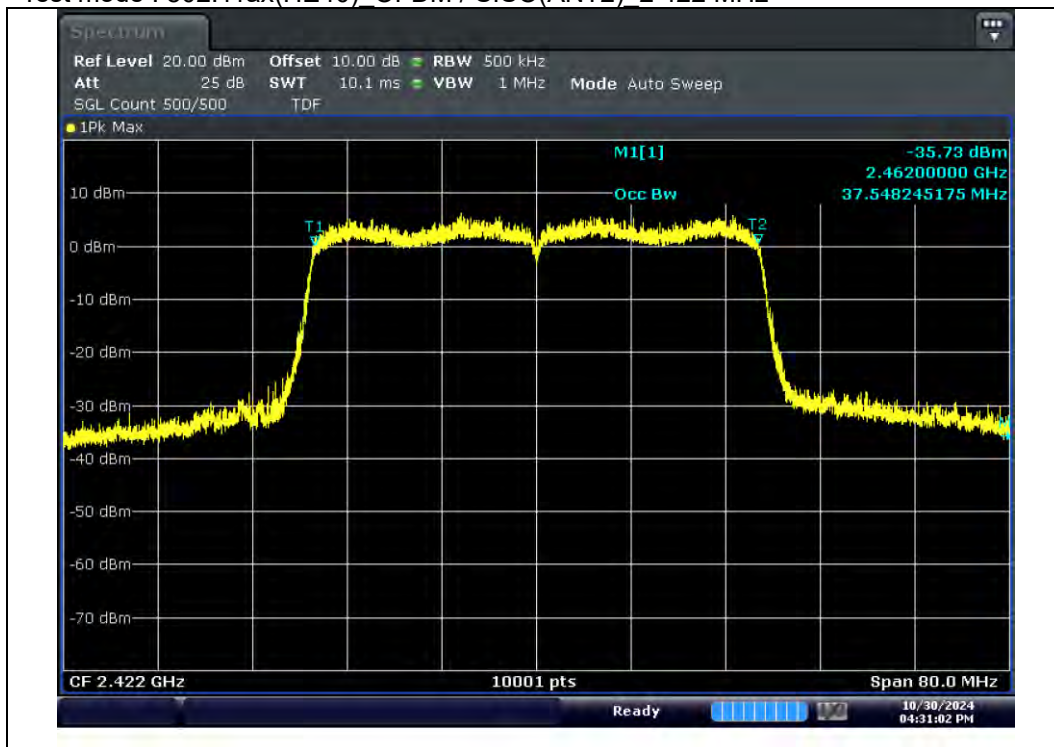
Test mode : 802.11ax(HE40)_OFDM / SISO(ANT1)_ 2 437 MHz



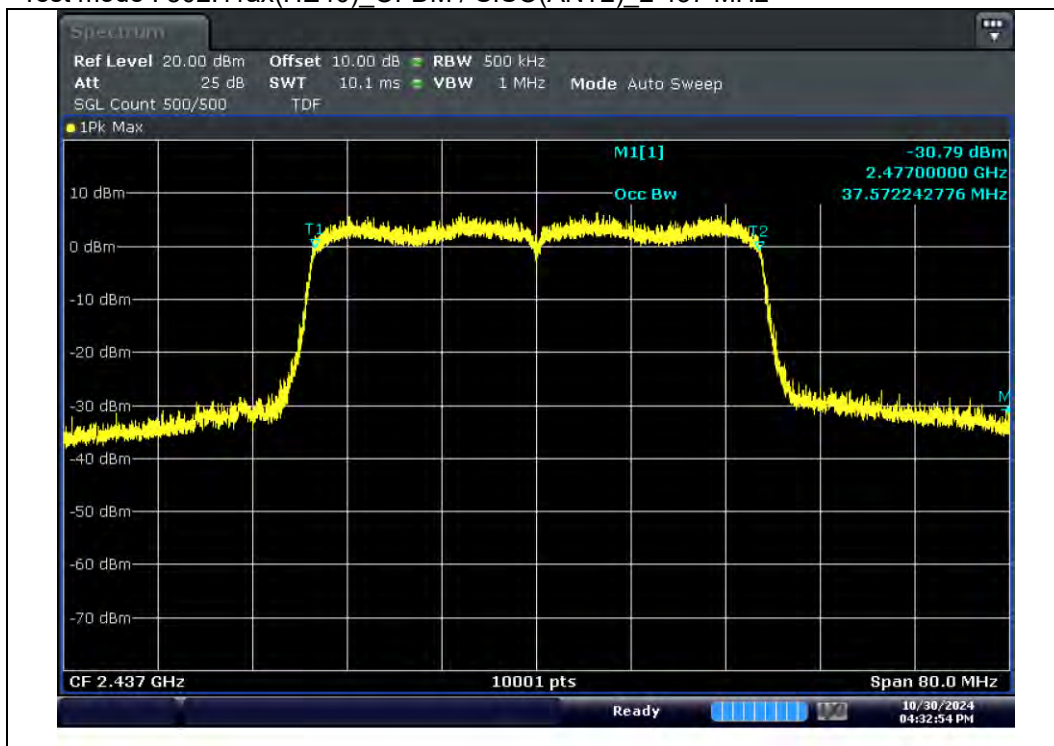
Test mode : 802.11ax(HE40) OFDM / SISO(ANT1) 2 452 MHz



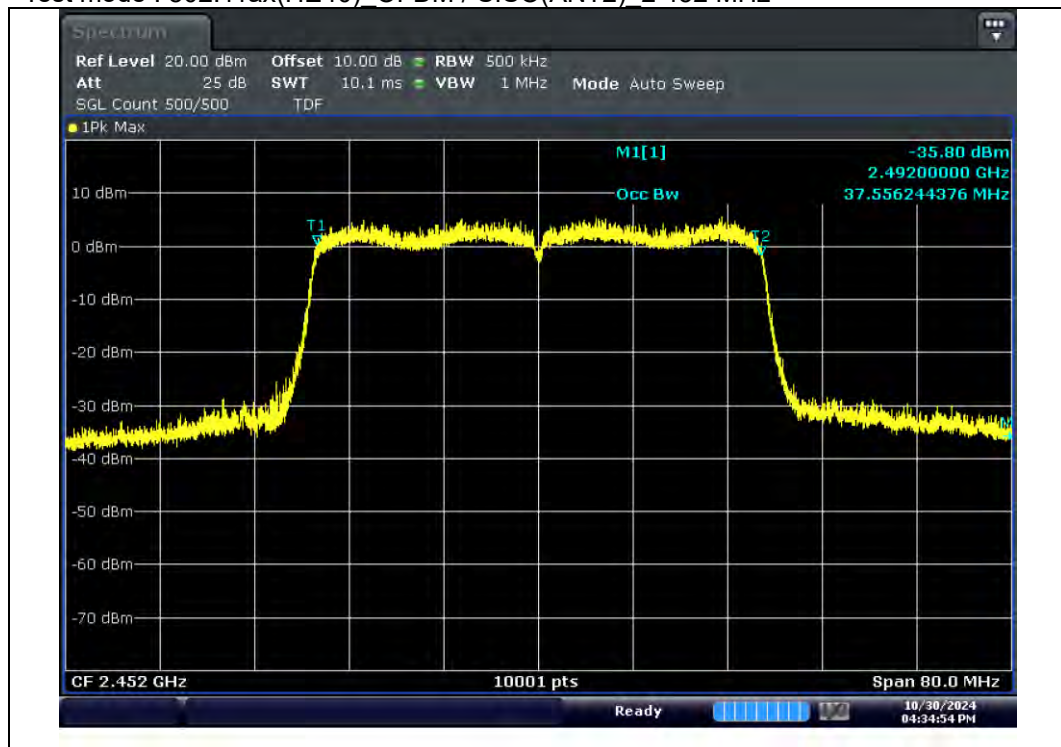
Test mode : 802.11ax(HE40)_OFDM / SISO(ANT2)_ 2 422 MHz



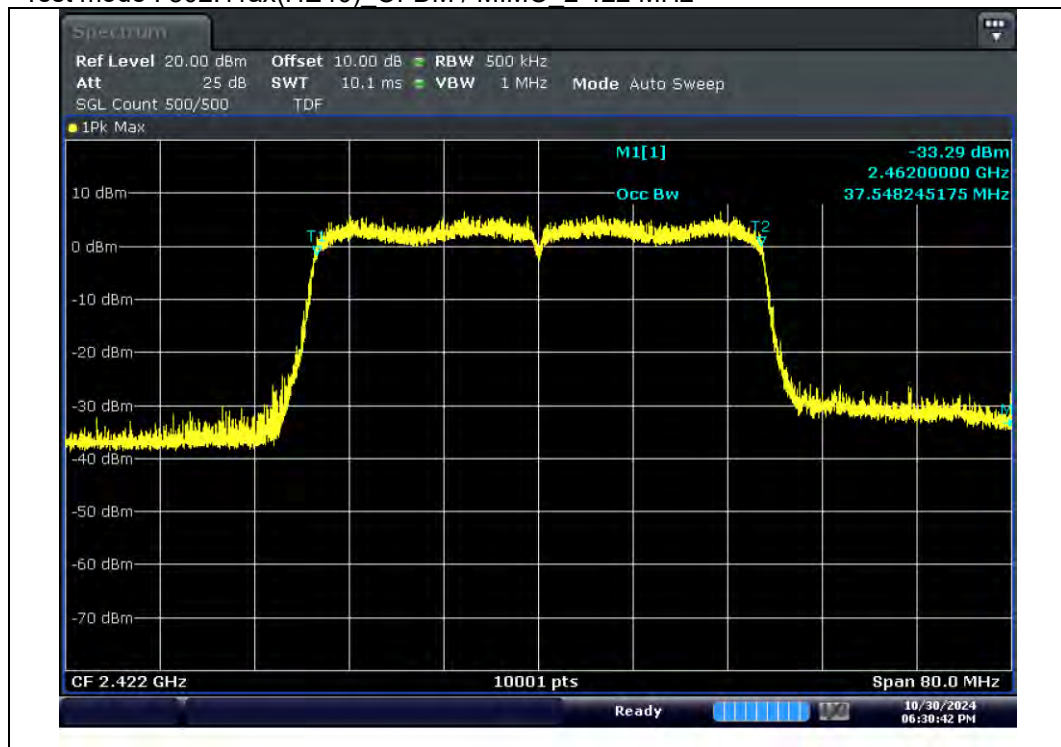
Test mode : 802.11ax(HE40)_OFDM / SISO(ANT2)_ 2 437 MHz



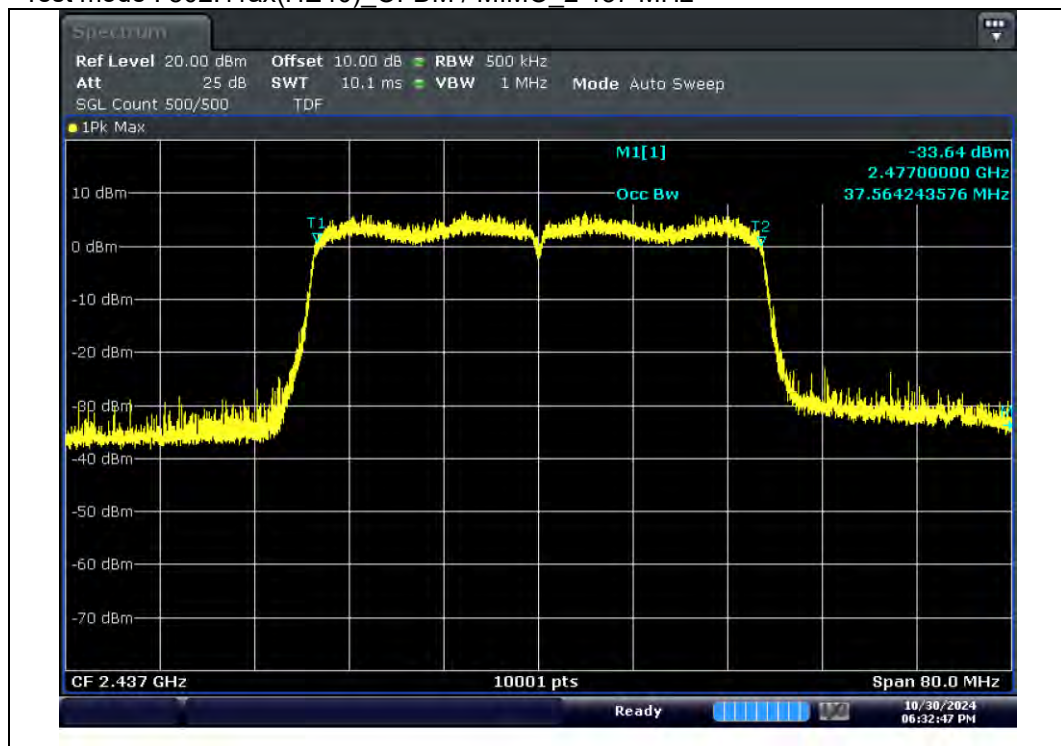
Test mode : 802.11ax(HE40) OFDM / SISO(ANT2) 2 452 MHz



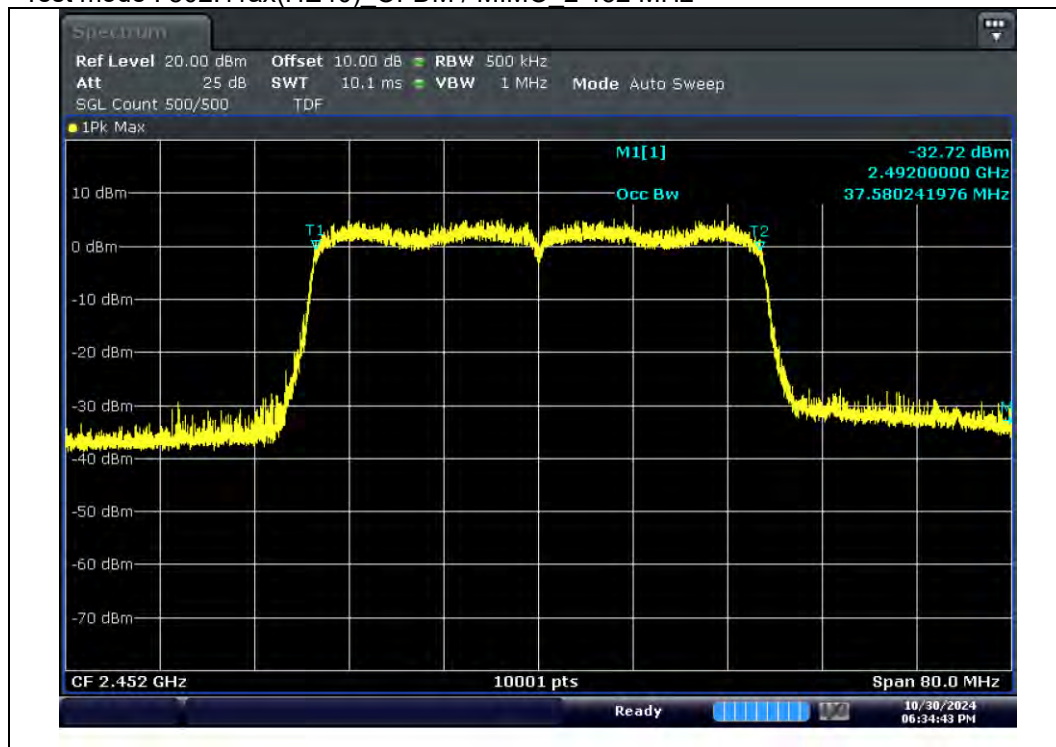
Test mode : 802.11ax(HE40)_OFDM / MIMO_2 422 MHz



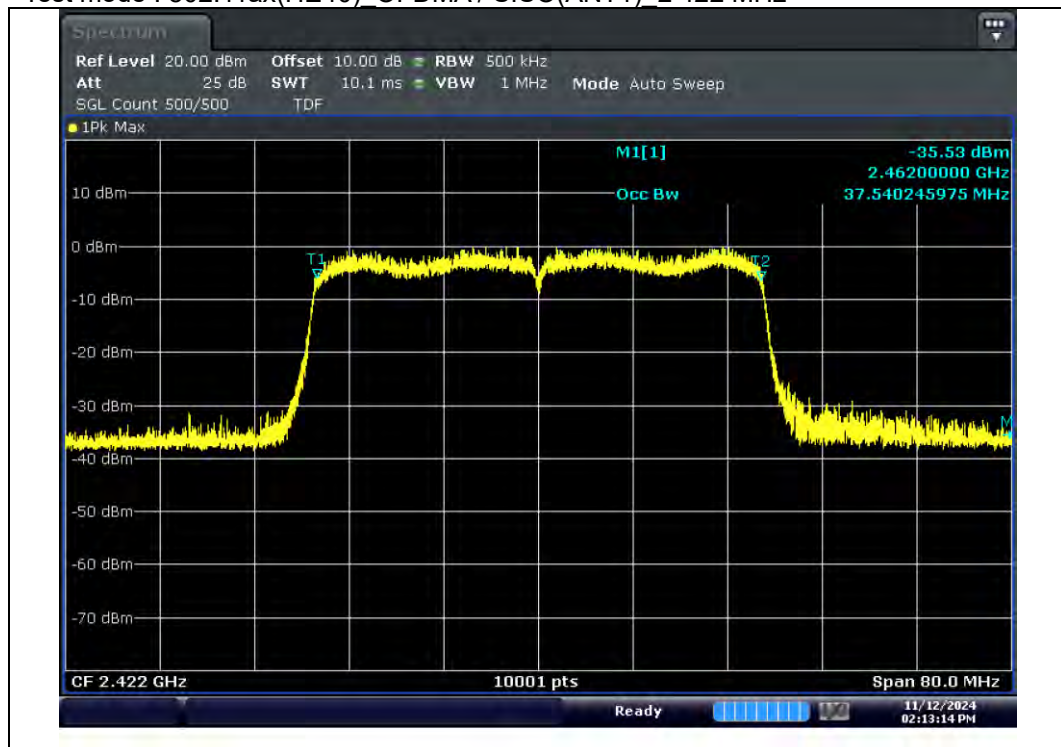
Test mode : 802.11ax(HE40)_OFDM / MIMO_2 437 MHz



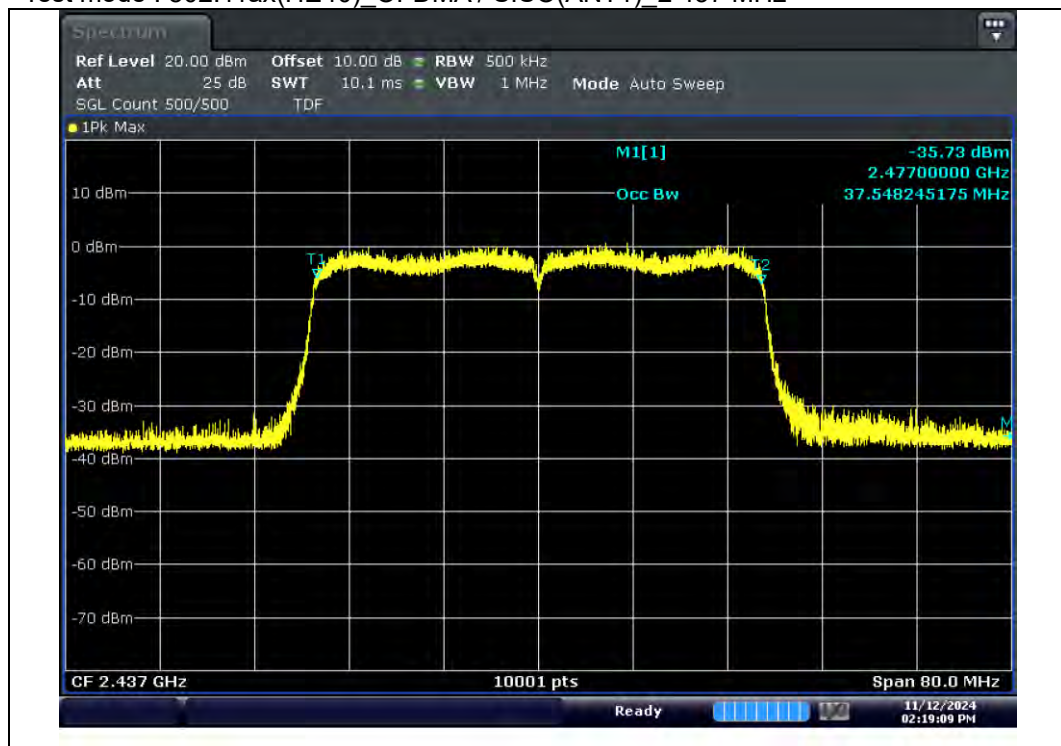
Test mode : 802.11ax(HE40) OFDM / MIMO 2 452 MHz



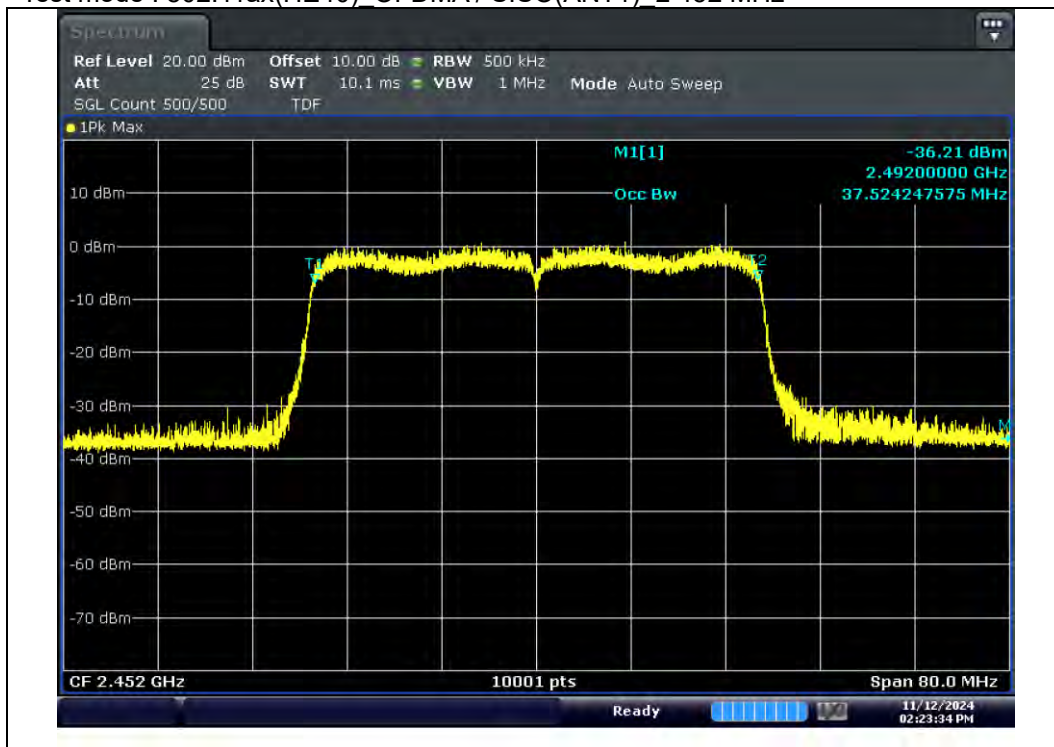
Test mode : 802.11ax(HE40)_OFDMA / SISO(ANT1)_ 2 422 MHz



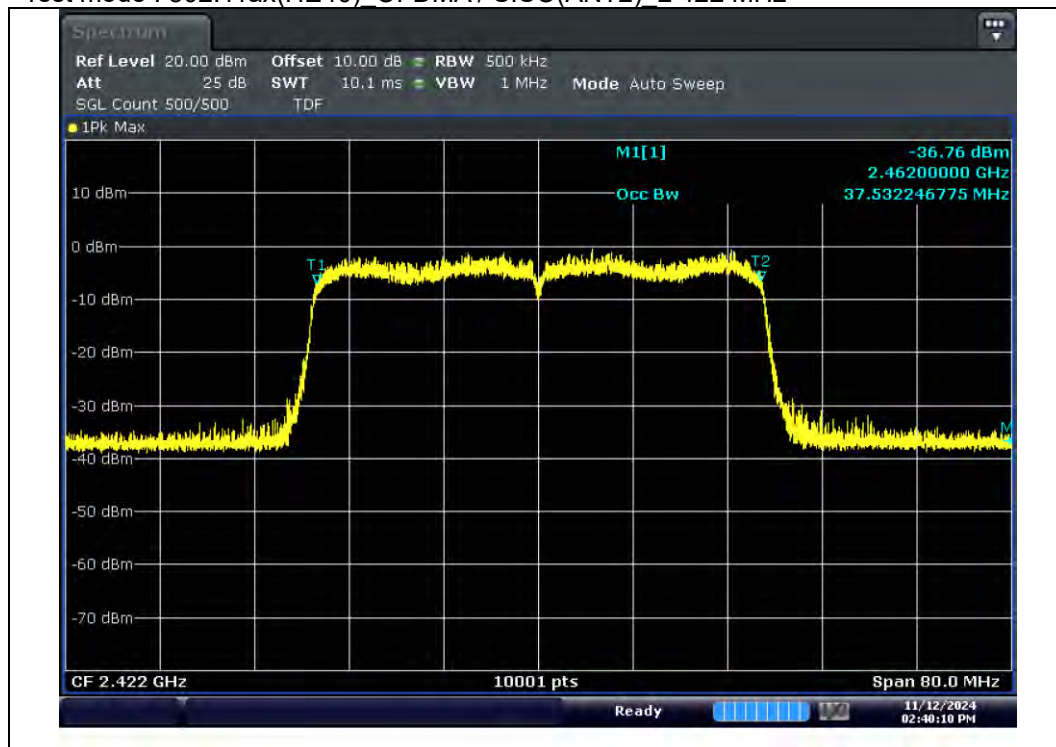
Test mode : 802.11ax(HE40)_OFDMA / SISO(ANT1)_ 2 437 MHz



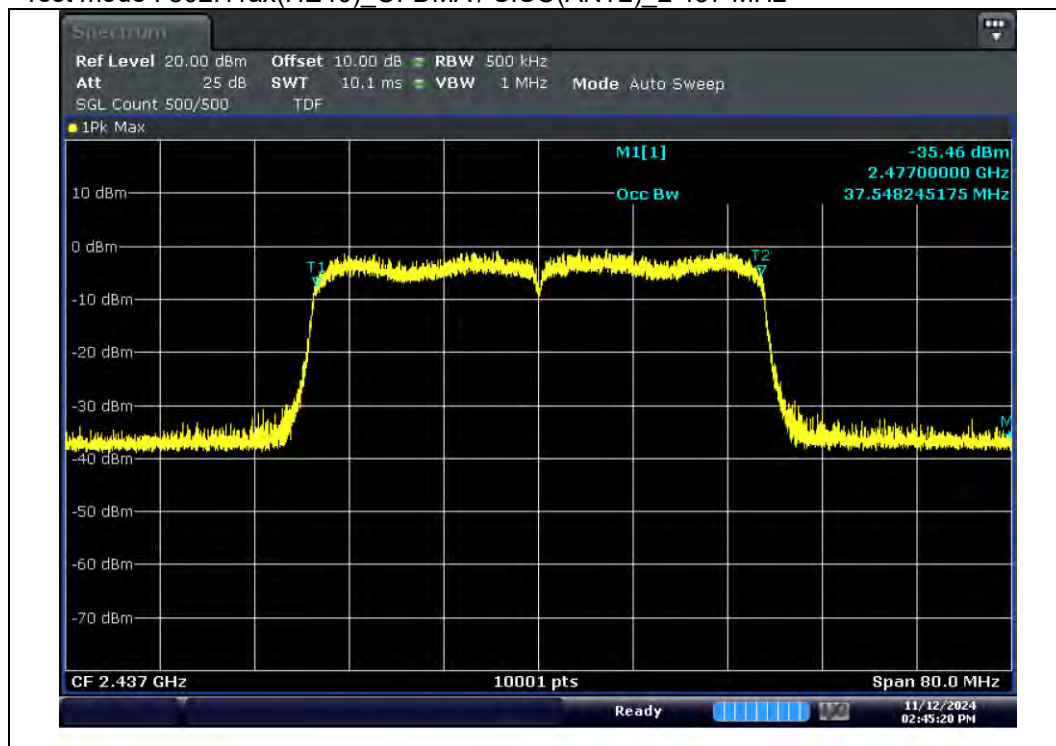
Test mode : 802.11ax(HE40) OFDMA / SISO(ANT1) 2 452 MHz



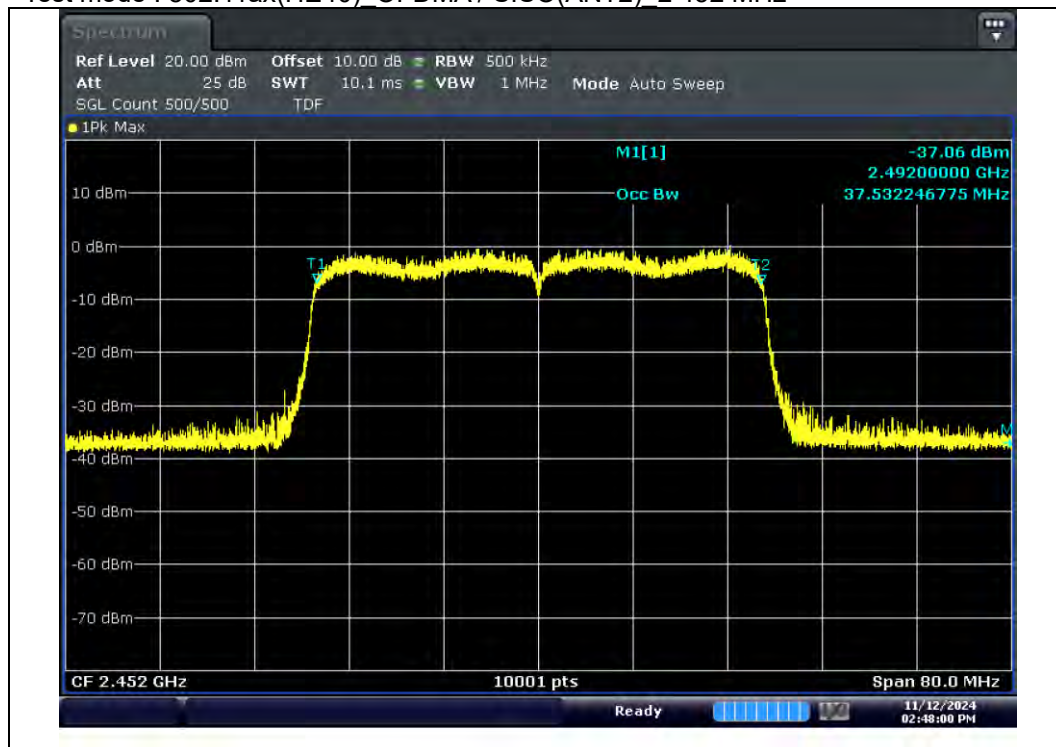
Test mode : 802.11ax(HE40)_OFDMA / SISO(ANT2)_2 422 MHz



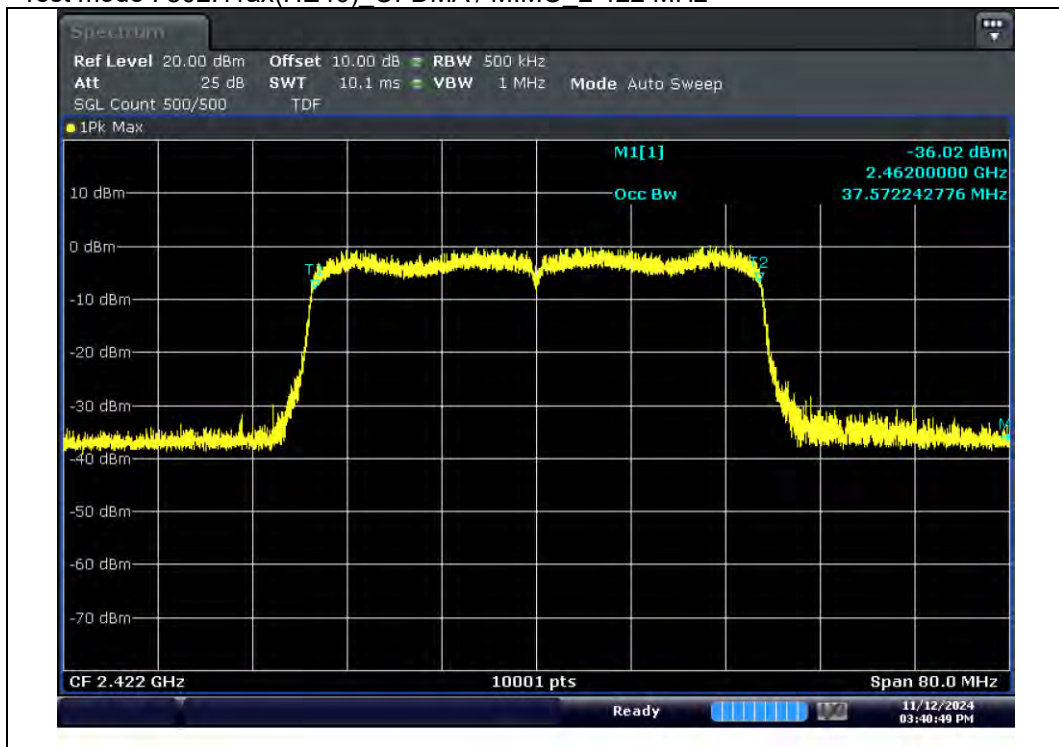
Test mode : 802.11ax(HE40)_OFDMA / SISO(ANT2)_2 437 MHz



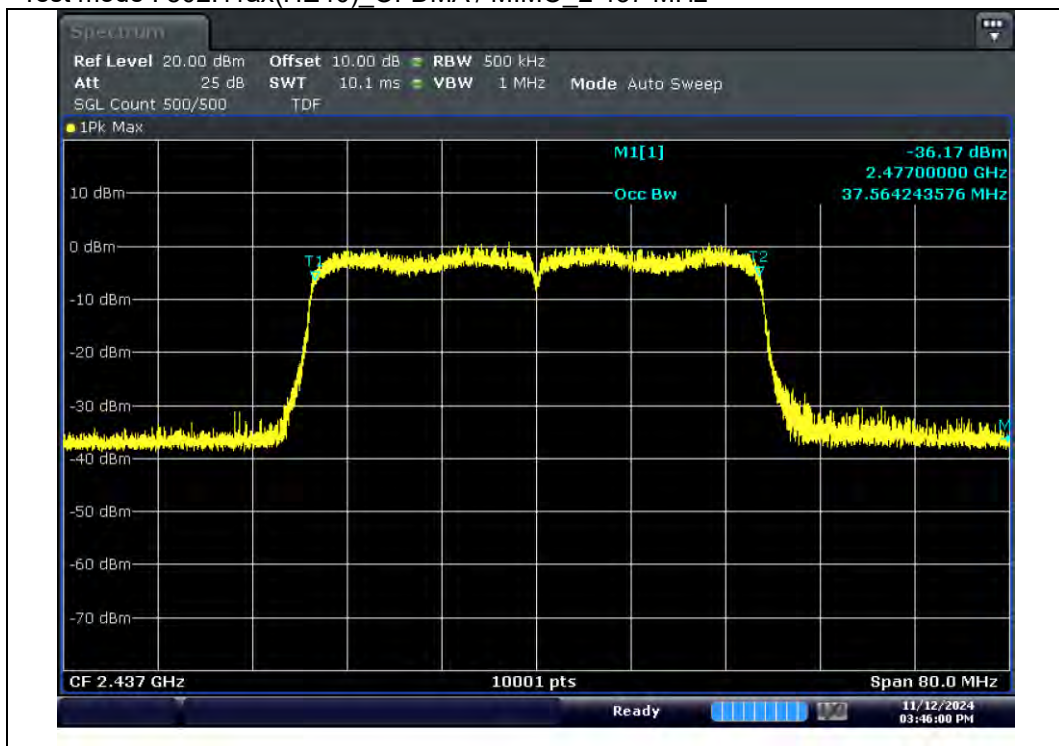
Test mode : 802.11ax(HE40) OFDMA / SISO(ANT2) 2 452 MHz



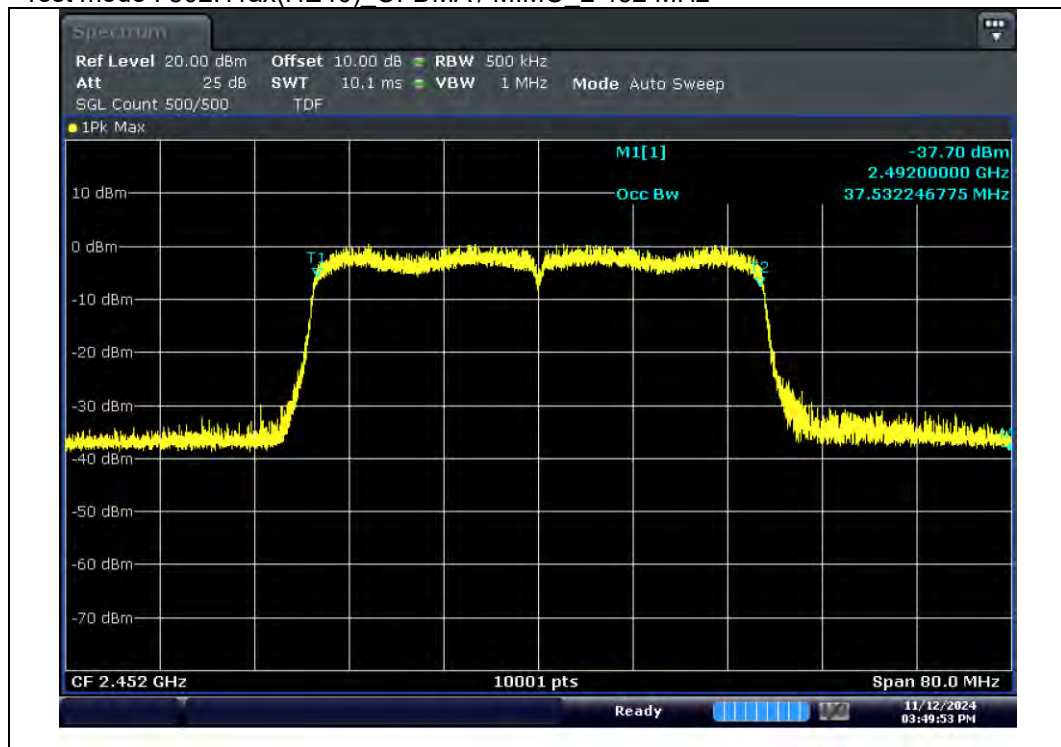
Test mode : 802.11ax(HE40)_OFDMA / MIMO_2 422 MHz



Test mode : 802.11ax(HE40)_OFDMA / MIMO_2 437 MHz



Test mode : 802.11ax(HE40) OFDMA / MIMO 2 452 MHz



Test Mode : Bluetooth LE 1M / 2402 MHz



Test Mode : Bluetooth LE 1M / 2440 MHz



Test Mode : Bluetooth LE 1M / 2480 MHz



Test Mode : Bluetooth LE 2M / 2402 MHz



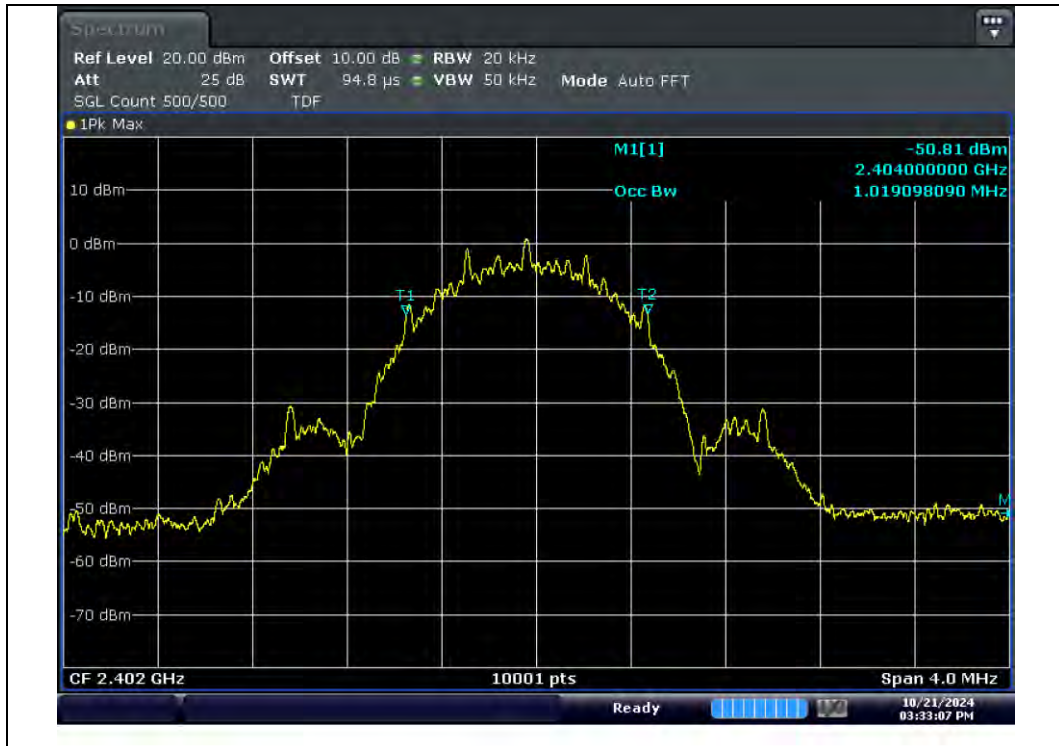
Test Mode : Bluetooth LE 2M / 2440 MHz



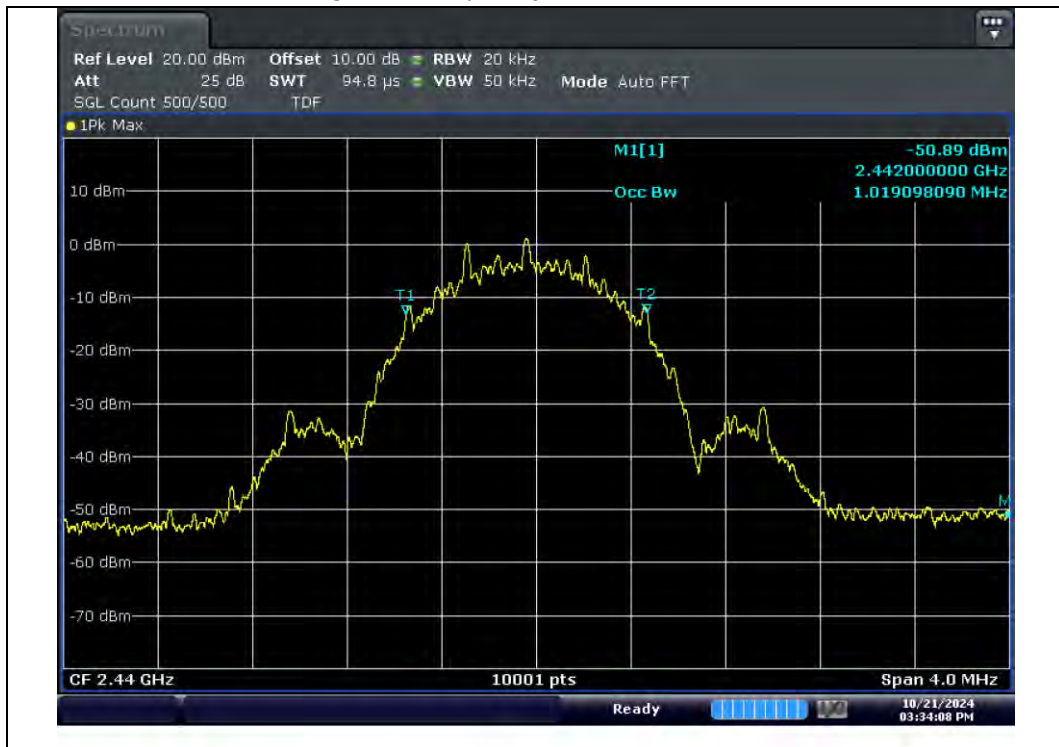
Test Mode : Bluetooth LE 2M / 2480 MHz



Test Mode : Bluetooth LE Coded S=2 / 2402 MHz



Test Mode : Bluetooth LE Coded S=2 / 2440 MHz



Test Mode : Bluetooth LE Coded S=2 / 2480 MHz



Test Mode : Bluetooth LE Coded S=8 / 2402 MHz



Test Mode : Bluetooth LE Coded S=8 / 2440 MHz



Test Mode : Bluetooth LE Coded S=8 / 2480 MHz



4.3.5 Spurious Emission, Band Edge, and Restricted bands

4.3.5.1 Regulation

According to §15.247(d) and RSS-247 5.5 in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

According to §15.209(a) and RSS-GEN 8.9 Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009 - 0.490	2 400/F(kHz)	300
0.490 - 1.705	24 000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100**	3
88 - 216	150**	3
216 - 960	200**	3
Above 960	500	3

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54–72 MHz, 76–88 MHz, 174–216 MHz or 470–806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§15.231 and 15.241.

According to §15.205(a) and (b) only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.009 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
0.495 - 0.505	16.694 75 - 16.695 25	608 - 614	5.35 - 5.46
2.173 5 - 2.190 5	16.804 25 - 16.804 75	960 – 1 240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1 300 – 1 427	8.025 - 8.5
4.177 25 - 4.177 75	37.5 - 38.25	1 435 – 1 626.5	9.0 - 9.2
4.207 25 - 4.207 75	73 - 74.6	1 645.5 – 1 646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1 660 – 1 710	10.6 - 12.7
6.267 75 - 6.268 25	108 - 121.94	1 718.8 – 1 722.2	13.25 - 13.4
6.311 75 - 6.312 25	123 - 138	2 200 – 2 300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2 310 – 2 390	15.35 - 16.2
8.362 - 8.366	156.524 75 - 156.525 25	2 483.5 – 2 500	17.7 - 21.4
8.376 25 - 8.386 75	156.7 - 156.9	2 690 – 2 900	22.01 - 23.12
8.414 25 - 8.414 75	162.012 5 - 167.17	3 260 – 3 267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3 332 – 3 339	31.2 - 31.8
12.519 75 - 12.520 25	240 - 285	3 345.8 – 3 358	36.43 - 36.5
12.576 75 - 12.577 25	322 - 335.4	3 600 – 4 400	Above 38.6
13.36 - 13.41			

The field strength of emissions appearing within these frequency bands shall not exceed the limits shown in §15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in §15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in §15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in §15.35 apply to these measurement

According to RSS-GEN 8.10(c) Unwanted emissions that do not fall within the restricted frequency bands listed in table 7 shall comply either with the limits specified in the applicable RSS or with those specified in table 5 and table 6.

MHz	MHz	MHz	GHz
0.009 - 0.110	13.36 – 13.41	960 – 1427	9.0 – 9.2
0.495 - 0.505	16.42 – 16.423	1435 – 1626.5	9.3 – 9.5
2.173 5 - 2.190 5	16.69475 – 16.69525	1660 – 1710	10.6 – 12.7
3.020 – 3.026	16.80425 - 16.80475	1718.8 – 1722.2	13.25 – 13.4
4.125 – 4.128	25.5 – 25.67	2200 – 2300	14.47 – 14.5
4.17725 – 4.17775	37.5 – 38.25	2310 - 2390	15.35 – 16.2
4.20725 – 4.20775	73 – 74.6	2483.5 – 2500	17.7 – 21.4
5.677 – 5.683	74.8 – 75.2	2655 – 2900	22.01 – 23.12
6.215 – 6.218	108 – 138	3260 – 3267	23.6 – 24.0
6.266775 – 6.26825	149.9 – 150.05	3332 – 3339	31.2 – 31.8
6.31175 – 6.31225	156.52475 – 156.52525	3345.8 - 3358	36.43 – 36.5
8.291 – 8.294	156.7 – 156.9	3500 – 4400	Above 38.6
8.363 – 8.366	162.0125 – 167.17	4500 – 5150	-
8.37625 – 8.38675	167.75 – 173.2	5350 – 5460	-
8.41425 – 8.41475	240 – 285	7250 - 7750	-
12.29 – 12.293	322 – 335.4	8025 – 8500	-
12.51975 – 12.52025	399.9 – 410	-	-
12.57675 – 12.57725	608 – 614	-	-

4.3.5.2 Measurement Procedure

4.3.5.2.1 Band-edge Compliance of RF Conducted Emissions

4.3.5.2.1.1 Reference Level Measurement

Establish a reference level by using the following procedure:

- 1) Set instrument center frequency to DTS channel center frequency.
- 2) Set the span to ≥ 1.5 times the DTS bandwidth.
- 3) Set the RBW = 100 kHz.
- 4) Set the VBW $\geq 3 \times$ RBW.
- 5) Detector = peak.
- 6) Sweep time = auto couple.
- 7) Trace mode = max hold.
- 8) Allow trace to fully stabilize.
- 9) Use the peak marker function to determine the maximum PSD level.

4.3.5.2.1.2 Emissions Level Measurement

- 1) Set the center frequency and span to encompass frequency range to be measured.
- 2) Set the RBW = 100 kHz.
- 3) Set the VBW $\geq 3 \times$ RBW.
- 4) Detector = peak.
- 5) Ensure that the number of measurement points $\geq$ span/RBW
- 6) Sweep time = auto couple.
- 7) Trace mode = max hold.
- 8) Allow trace to fully stabilize.
- 9) 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) are attenuated by at least the minimum requirements specified in 11.1 a) or 11.1 b).

Report the three highest emissions relative to the limit.

4.3.5.2.2 Conducted Spurious Emissions

Set the spectrum analyzer as follows:

- 1) Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.
- 2) RBW = 100 kHz
- 3) VBW $\geq 3 \times$ RBW
- 4) Sweep = auto
- 5) Detector function = peak
- 6) Trace = max hold
- 7) Allow the trace to stabilize. Set the marker on the peak of any spurious emission recorded.
- 8) Each frequency found during preliminary measurements was re-examined and investigated. The test-receiver system was set up to average, peak, and quasi-peak detector function with specified bandwidth.

4.3.5.2.3 Radiated Spurious Emissions

- 1) The preliminary and final radiated measurements were performed to determine the frequency producing the maximum emissions in at a 10m anechoic chamber. The EUT was tested at a distance 3 meters.
- 2) The EUT was placed on the top of the 0.8 m height or 1.5 m height non-metallic table. To find the maximum emission levels, the height of a measuring antenna was changed and the turntable was rotated 360°.
- 3) The antenna polarization was also changed from vertical to horizontal. The spectrum was scanned from 9 kHz to 30 MHz using the loop antenna, and from 30 to 1 000 MHz using the TRILOG broadband antenna, and from 1 000 MHz to 26 500 MHz using the horn antenna.
- 4) Each frequency found during preliminary measurements was re-examined and investigated. The test-receiver system was set up to average, peak, and quasi-peak detector function with specified bandwidth.

NOTE1 : The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1 GHz.

NOTE2 : The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection and frequency above 1 GHz.

The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1 kHz(1/T) for Average detection (AV) at frequency above 1 GHz. (where T= pulse width)

NOTE3 : The 0.8 m height is for below 1 GHz testing, and 1.5 m is for above 1 GHz testing

4.3.5.3 Note

- Below 1GHz

Note 1 : Measured the worst case. * Refer to 3.4

Note 2 : Loss : Cable loss - Amp gain

Note 3 : Result : Reading + Ant Factor + Loss

Note 4 : Measured distance : 3 m

- Above 1GHz

Note 1 : Measured the worst case. * Refer to 3.4

Note 2 : Factor : Ant Factor + Cable loss - Amp gain + Distance Factor

Note 3 : Peak Result : Reading + Factor

Note 4 : Average Result : Average Reading + Factor + Average Factor

Note 5 : Average Factor : $10\log(1/\text{Dutycycle})$ * Refer to 4.3.5.8

Note 6 : Measured distance : 1 m, Distance Factor = $20\log(1 / 3) = -9.54$

Note 7 : Average measurement did not take place because the peak data did not exceed Average Limit.

Note 8 : Not Detected means that peak data does not exceed the average limit.

4.3.5.4 Result

Comply (measurement data : refer to the next page)

4.3.5.5 Measurement data_Radiated Spurious Emissions

Test mode : Below 1 GHz

(Worst case : 2.4GHz(802.11n(HT20)))

Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Ant Factor (dB)	Loss (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
400.05	QP	H	47.00	21.40	-27.00	41.40	46.00	4.60
400.05	QP	V	41.00	21.40	-27.00	35.40	46.00	10.60
500.07	QP	H	41.30	23.60	-26.80	38.10	46.00	7.90
500.07	QP	V	41.90	23.60	-26.80	38.70	46.00	7.30
600.00	QP	H	39.20	25.50	-26.60	38.10	46.00	7.90
600.00	QP	V	42.90	25.50	-26.60	41.80	46.00	4.20

Test mode : 802.11b / SISO(ANT1) 2 412 MHz

Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Factor (dB)	Dutycycle Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2387.49	PK	H	44.50	-3.34	-	41.16	74.00	32.84
	PK	V	51.60	-3.34	-	48.26	74.00	25.74

Test mode : 802.11b / SISO(ANT1) 2 437 MHz

Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Factor (dB)	Dutycycle Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2559.75	PK	V	55.40	-2.84	-	52.56	74.00	21.44

Test mode : 802.11b / SISO(ANT1) 2 462 MHz

Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Factor (dB)	Dutycycle Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2488.28	PK	H	58.70	-2.94	-	55.76	74.00	18.24
	AV	H	49.50	-2.94	-	46.56	54.00	7.44
	PK	V	62.90	-2.94	-	59.96	74.00	14.04
	AV	V	53.20	-2.94	-	50.26	54.00	3.74

Test mode : 802.11b / SISO(ANT2) 2 412 MHz

Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Factor (dB)	Dutycycle Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2374.78	PK	H	43.90	-3.54	-	40.36	74.00	33.64
	PK	V	51.20	-3.54	-	47.66	74.00	26.34

Test mode : 802.11b / SISO(ANT2) 2 437 MHz

Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Factor (dB)	Dutycycle Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2559.75	PK	V	55.80	-2.84	-	52.96	74.00	21.04

Test mode : 802.11b / SISO(ANT2) 2 462 MHz

Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Factor (dB)	Dutycycle Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2489.23	PK	H	45.90	-2.94	-	42.96	74.00	31.04
	PK	V	52.20	-2.94	-	49.26	74.00	24.74

Test mode : 802.11g / SISO(ANT1) 2 412 MHz

Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Factor (dB)	Dutycycle Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2387.01	PK	H	53.70	-3.34	-	50.36	74.00	23.64
2389.74	PK	V	61.10	-3.34	-	57.76	74.00	16.24
	AV	V	51.00	-3.34	-	47.66	54.00	6.34

Test mode : 802.11g / SISO(ANT1) 2 437 MHz

Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Factor (dB)	Dutycycle Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
			Not Detected					

Test mode : 802.11g / SISO(ANT1) 2 462 MHz

Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Factor (dB)	Dutycycle Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2484.22	PK	H	62.40	-2.94	-	59.46	74.00	14.54
2484.26	PK	V	67.80	-2.94	-	64.86	74.00	9.14
	AV	V	52.10	-2.94	-	49.16	54.00	4.84

Test mode : 802.11g / SISO(ANT2) 2 412 MHz

Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Factor (dB)	Dutycycle Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2387.49	PK	H	49.60	-3.34	-	46.26	74.00	27.74
2387.98	PK	V	60.40	-3.34	-	57.06	74.00	16.94
	AV	V	48.10	-3.34	-	44.76	54.00	9.24

Test mode : 802.11g / SISO(ANT2) 2 437 MHz

Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Factor (dB)	Dutycycle Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
			Not Detected					

Test mode : 802.11g / SISO(ANT2) 2 462 MHz

Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Factor (dB)	Dutycycle Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2484.75	PK	H	55.90	-2.94	-	52.96	74.00	21.04
2485.00	PK	V	62.20	-2.94	-	59.26	74.00	14.74
	AV	V	48.90	-2.94	-	45.96	54.00	8.04

Test mode : 802.11n(HT20) / MIMO 2 412 MHz

Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Factor (dB)	Dutycycle Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2387.88	PK	H	54.60	-3.34	-	51.26	74.00	22.74
2388.96	PK	V	64.70	-3.34	-	61.36	74.00	12.64
	AV	V	48.20	-3.34	0.09	44.95	54.00	9.05

Test mode : 802.11n(HT20) / MIMO 2 437 MHz

Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Factor (dB)	Dutycycle Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
			Not Detected					

Test mode : 802.11n(HT20) / MIMO 2 462 MHz

Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Factor (dB)	Dutycycle Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2484.25	PK	H	62.60	-2.94	-	59.66	74.00	14.34
	AV	H	50.10	-2.94	0.09	47.25	54.00	6.75
	PK	V	68.90	-2.94	-	65.96	74.00	8.04
	AV	V	54.30	-2.94	0.09	51.45	54.00	2.55

Test mode : 802.11n(HT40) / MIMO 2 422 MHz

Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Factor (dB)	Dutycycle Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2378.14	PK	V	63.80	-3.54	-	60.26	74.00	13.74
	AV	V	49.80	-3.54	0.18	46.44	54.00	7.56
2381.02	PK	H	55.30	-3.54	-	51.76	74.00	22.24

Test mode : 802.11n(HT40) / MIMO 2 437 MHz

Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Factor (dB)	Dutycycle Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2381.77	PK	V	62.20	-3.54	-	58.66	74.00	15.34
	AV	V	47.50	-3.54	0.18	44.14	54.00	9.86
2382.28	PK	H	55.30	-3.54	-	51.76	74.00	22.24
2484.72	PK	H	55.50	-2.94	-	52.56	74.00	21.44
2486.50	PK	V	62.40	-2.94	-	59.46	74.00	14.54
	AV	V	47.60	-2.94	0.18	44.84	54.00	9.16

Test mode : 802.11n(HT40) / MIMO 2 452 MHz

Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Factor (dB)	Dutycycle Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2486.50	PK	V	71.10	-2.94	-	68.16	74.00	5.84
	AV	V	52.10	-2.94	0.18	49.34	54.00	4.66
2494.00	PK	H	61.20	-2.84	-	58.36	74.00	15.64

Test mode : 802.11ax(HE20) OFDM / MIMO 2 412 MHz

Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Factor (dB)	Dutycycle Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2388.00	PK	H	56.90	-3.34	-	53.56	74.00	20.44
2389.77	PK	V	62.80	-3.34	-	59.46	74.00	14.54
	AV	V	46.70	-3.34	0.06	43.42	54.00	10.58

Test mode : 802.11ax(HE20) OFDM / MIMO 2 437 MHz

Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Factor (dB)	Dutycycle Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2386.94	PK	V	59.00	-3.34	-	55.66	74.00	18.34
	AV	V	46.80	-3.34	0.06	43.52	54.00	10.48
2389.29	PK	H	53.10	-3.34	-	49.76	74.00	24.24
2484.01	PK	V	59.40	-2.94	-	56.46	74.00	17.54
	AV	V	46.90	-2.94	0.06	44.02	54.00	9.98
2485.49	PK	H	53.80	-2.94	-	50.86	74.00	23.14

Test mode : 802.11ax(HE20) OFDM / MIMO 2 462 MHz

Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Factor (dB)	Dutycycle Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2486.49	PK	V	65.20	-2.94	-	62.26	74.00	11.74
	AV	V	47.30	-2.94	0.06	44.42	54.00	9.58
2487.48	PK	H	63.70	-2.94	-	60.76	74.00	13.24
	AV	H	46.90	-2.94	0.06	44.02	54.00	9.98

Test mode : 802.11ax(HE20) _OFDMA / MIMO 2 412 MHz

Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Factor (dB)	Dutycycle Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2384.51	PK	H	60.00	-3.54	-	56.46	74.00	17.54
	AV	H	33.40	-3.54	0.37	30.23	54.00	23.77
2389.24	PK	V	60.90	-3.34	-	57.56	74.00	16.44
	AV	V	39.10	-3.34	0.37	36.13	54.00	17.87

Test mode : 802.11ax(HE20) _OFDMA / MIMO 2 437 MHz

Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Factor (dB)	Dutycycle Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
			Not Detected					

Test mode : 802.11ax(HE20) _OFDMA / MIMO 2 462 MHz

Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Factor (dB)	Dutycycle Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2484.52	PK	V	63.70	-2.94	-	60.76	74.00	13.24
	AV	V	37.80	-2.94	0.37	35.23	54.00	18.77
2491.18	PK	H	57.20	-2.94	-	54.26	74.00	19.74
	AV	H	32.90	-2.94	0.37	30.33	54.00	23.67

Test mode : 802.11ax(HE40) OFDM / MIMO 2 422 MHz

Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Factor (dB)	Dutycycle Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2389.25	PK	H	54.30	-3.34	-	50.96	74.00	23.04
2389.74	PK	V	67.00	-3.34	-	63.66	74.00	10.34
	AV	V	53.10	-3.34	0.11	49.87	54.00	4.13

Test mode : 802.11ax(HE40) OFDM / MIMO 2 437 MHz

Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Factor (dB)	Dutycycle Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2387.51	PK	H	55.40	-3.34	-	52.06	74.00	21.94
2389.53	PK	V	61.90	-3.34	-	58.56	74.00	15.44
	AV	V	48.10	-3.34	0.11	44.87	54.00	9.13
2484.07	PK	H	56.30	-2.94	-	53.36	74.00	20.64
2484.75	PK	V	66.80	-2.94	-	63.86	74.00	10.14
	AV	V	48.50	-2.94	0.11	45.67	54.00	8.33

Test mode : 802.11ax(HE40) OFDM / MIMO 2 452 MHz

Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Factor (dB)	Dutycycle Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2485.03	PK	V	66.30	-2.94	-	63.36	74.00	10.64
	AV	V	49.20	-2.94	0.11	46.37	54.00	7.63
2491.50	PK	H	61.40	-2.94	-	58.46	74.00	15.54

Test mode : 802.11ax(HE40) _OFDMA / MIMO 2 422 MHz

Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Factor (dB)	Dutycycle Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2377.24	PK	H	57.20	-3.54	-	53.66	74.00	20.34
	AV	H	38.80	-3.54	0.38	35.64	54.00	18.36
2388.74	PK	V	63.90	-3.34	-	60.56	74.00	13.44
	AV	V	42.80	-3.34	0.38	39.84	54.00	14.16

Test mode : 802.11ax(HE40) _OFDMA / MIMO 2 437 MHz

Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Factor (dB)	Dutycycle Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
			Not Detected					

Test mode : 802.11ax(HE40) _OFDMA / MIMO 2 452 MHz

Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Factor (dB)	Dutycycle Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2486.00	PK	H	60.40	-2.94	-	57.46	74.00	16.54
	AV	H	35.40	-2.94	0.38	32.84	54.00	21.16
2491.01	PK	V	60.00	-2.94	-	57.06	74.00	16.94
	AV	V	38.60	-2.94	0.38	36.04	54.00	17.96

Test Mode : Below 1 GHz (Worst case : Bluetooth LE 2M)

Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Ant Factor (dB)	Loss (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
400.05	QP	H	46.70	21.40	-27.00	41.10	46.00	4.90
500.07	QP	V	42.00	23.60	-26.80	38.80	46.00	7.20
500.07	QP	H	41.50	23.60	-26.80	38.30	46.00	7.70
600.00	QP	V	44.80	25.50	-26.60	43.70	46.00	2.30

Test Mode : Bluetooth LE 1M / 2402 MHz

Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Factor (dB)	Average Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2386.00	PK	H	50.70	-3.54	-	47.16	74.00	26.84
2386.00	PK	V	48.40	-3.54	-	44.86	74.00	29.14
4803.75	PK	V	47.80	1.66	-	49.46	74.00	24.54

Test Mode : Bluetooth LE 1M / 2440 MHz

Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Factor (dB)	Average Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
4878.75	PK	V	48.00	1.76	-	49.76	74.00	24.24

Test Mode : Bluetooth LE 1M / 2480 MHz

Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Factor (dB)	Average Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2495.75	PK	V	52.70	-2.84	-	49.86	74.00	24.14
2496.28	PK	H	41.50	-2.84	-	38.66	74.00	35.34
4959.38	PK	V	49.60	1.86	-	51.46	74.00	22.54

Test Mode : Bluetooth LE 2M / 2402 MHz

Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Factor (dB)	Average Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2385.76	PK	H	50.10	-3.54	-	46.56	74.00	27.44
2385.76	PK	V	51.60	-3.54	-	48.06	74.00	25.94
4801.88	PK	V	46.20	1.66	-	47.86	74.00	26.14

Test Mode : Bluetooth LE 2M / 2440 MHz

Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Factor (dB)	Average Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
4878.75	PK	V	47.20	1.76	-	48.96	74.00	25.04

Test Mode : Bluetooth LE 2M / 2480 MHz

Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Factor (dB)	Average Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2495.75	PK	H	46.20	-2.84	-	43.36	74.00	30.64
2495.75	PK	V	56.10	-2.84	-	53.26	74.00	20.74
4959.38	PK	V	49.30	1.86	-	51.16	74.00	22.84

Test Mode : Bluetooth LE Coded S=2 / 2402 MHz

Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Factor (dB)	Average Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2369.75	PK	V	50.40	-3.54	-	46.86	74.00	27.14
2386.25	PK	H	47.70	-3.54	-	44.16	74.00	29.84
4801.88	PK	V	48.80	1.66	-	50.46	74.00	23.54

Test Mode : Bluetooth LE Coded S=2 / 2440 MHz

Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Factor (dB)	Average Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
4878.75	PK	V	47.20	1.76	-	48.96	74.00	25.04

Test Mode : Bluetooth LE Coded S=2 / 2480 MHz

Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Factor (dB)	Average Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2495.75	PK	V	55.50	-2.84	-	52.66	74.00	21.34
2496.24	PK	H	42.00	-2.84	-	39.16	74.00	34.84
4959.38	PK	V	48.60	1.86	-	50.46	74.00	23.54

Test Mode : Bluetooth LE Coded S=8 / 2402 MHz

Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Factor (dB)	Average Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2384.75	PK	V	45.60	-3.54	-	42.06	74.00	31.94
2389.02	PK	H	43.50	-3.34	-	40.16	74.00	33.84
4803.75	PK	V	48.20	1.66	-	49.86	74.00	24.14

Test Mode : Bluetooth LE Coded S=8 / 2440 MHz

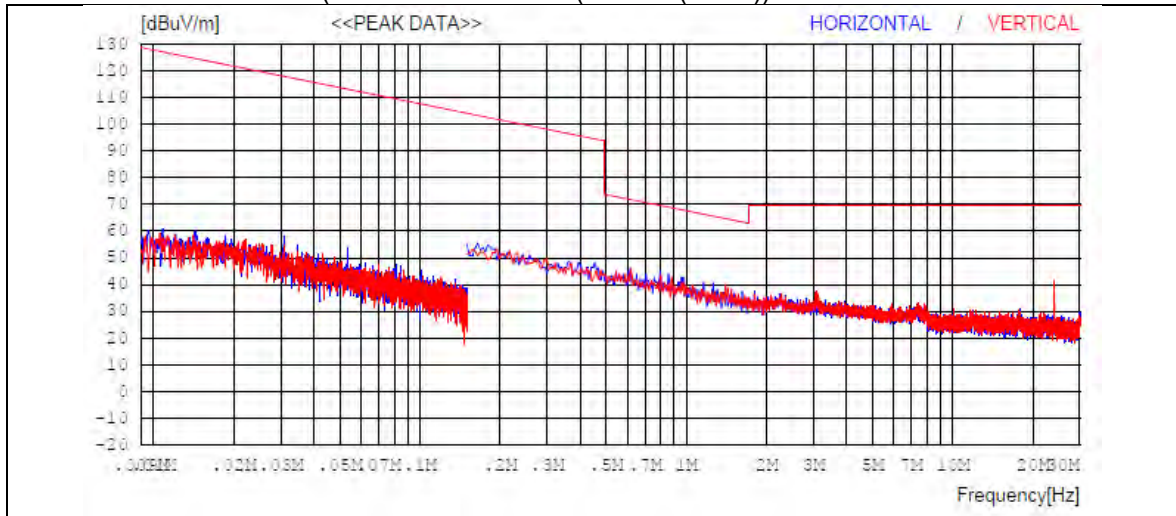
Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Factor (dB)	Average Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
4878.75	PK	V	47.00	1.76	-	48.76	74.00	25.24

Test Mode : Bluetooth LE Coded S=8 / 2480 MHz

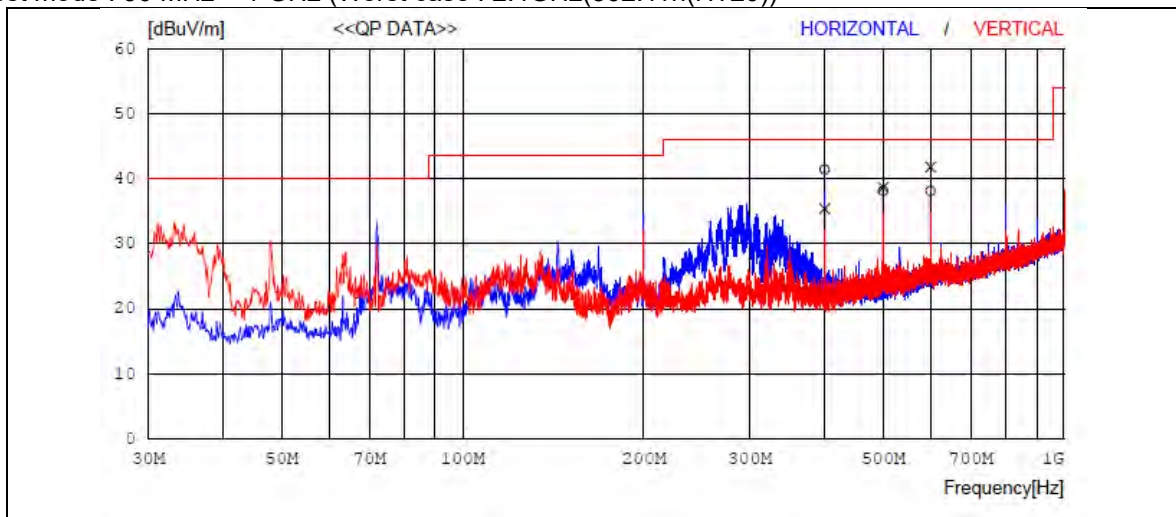
Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Factor (dB)	Average Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2493.27	PK	H	41.40	-2.84	-	38.56	74.00	35.44
2495.75	PK	V	51.40	-2.84	-	48.56	74.00	25.44
4959.38	PK	V	49.20	1.86	-	51.06	74.00	22.94

4.3.5.6 Measurement Plot_Radiated Spurious Emissions

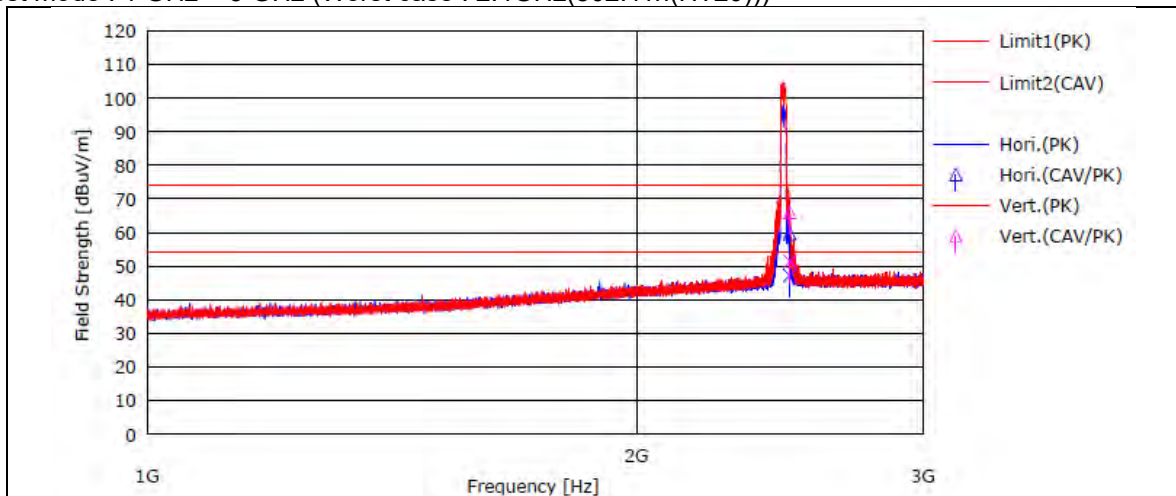
Test mode : 9 kHz ~ 30 MHz (Worst case : 2.4GHz(802.11n(HT20)))



Test mode : 30 MHz ~ 1 GHz (Worst case : 2.4GHz(802.11n(HT20)))

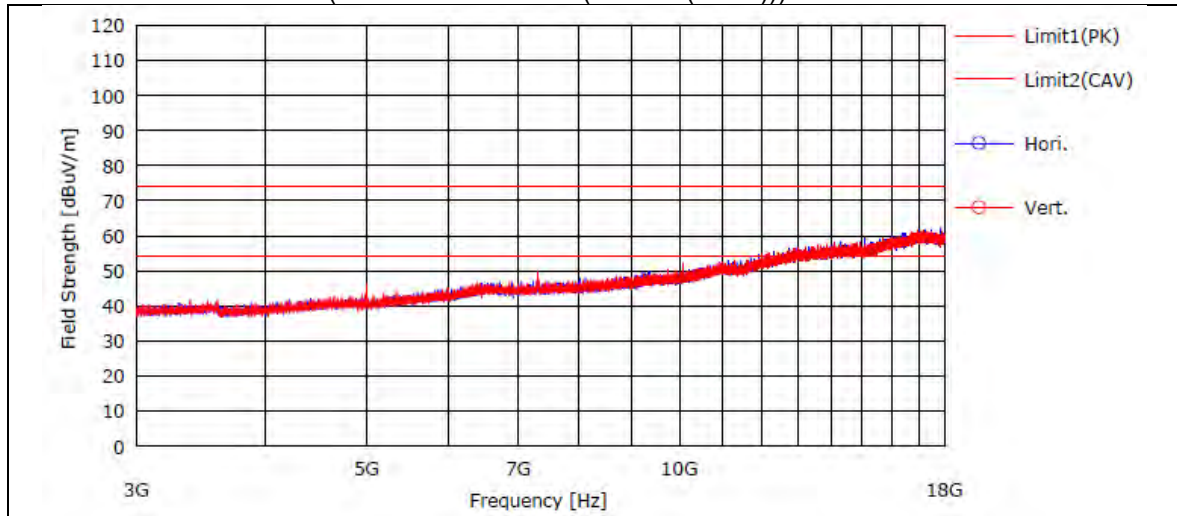


Test mode : 1 GHz ~ 3 GHz (Worst case : 2.4GHz(802.11n(HT20)))



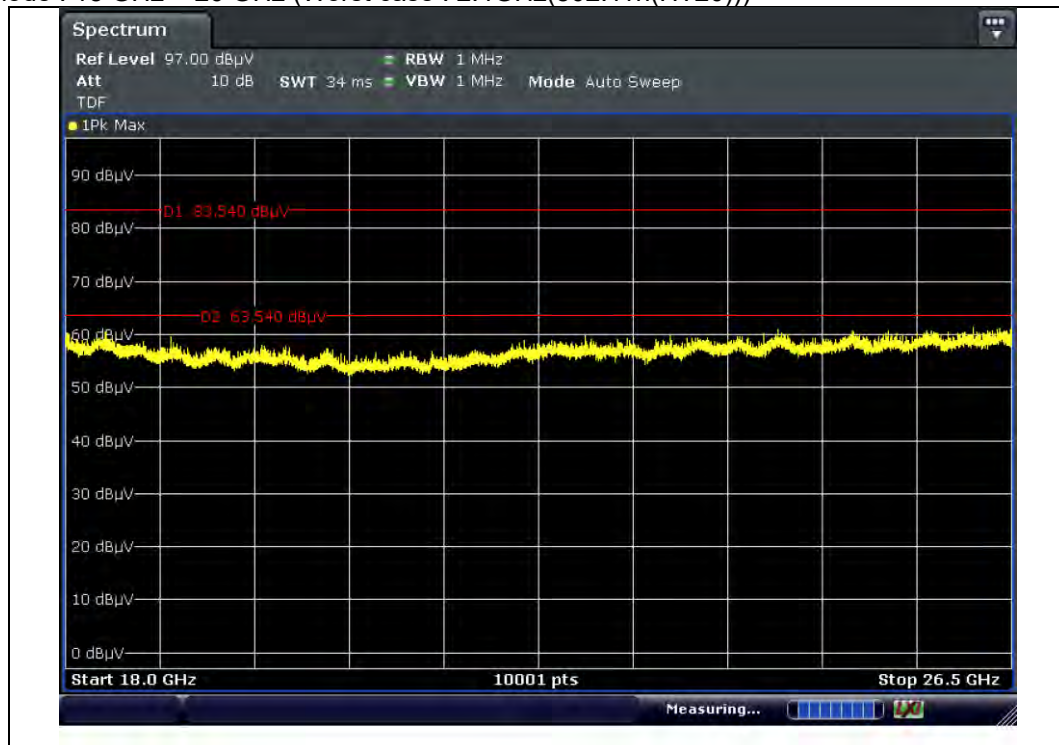
Note 1 : Measured distance : 1 m
Note 2 : Limit : Peak : 74 dBuV/m, Average : 54 dBuV/m

Test mode : 3 GHz ~ 18 GHz (Worst case : 2.4GHz(802.11n(HT20)))



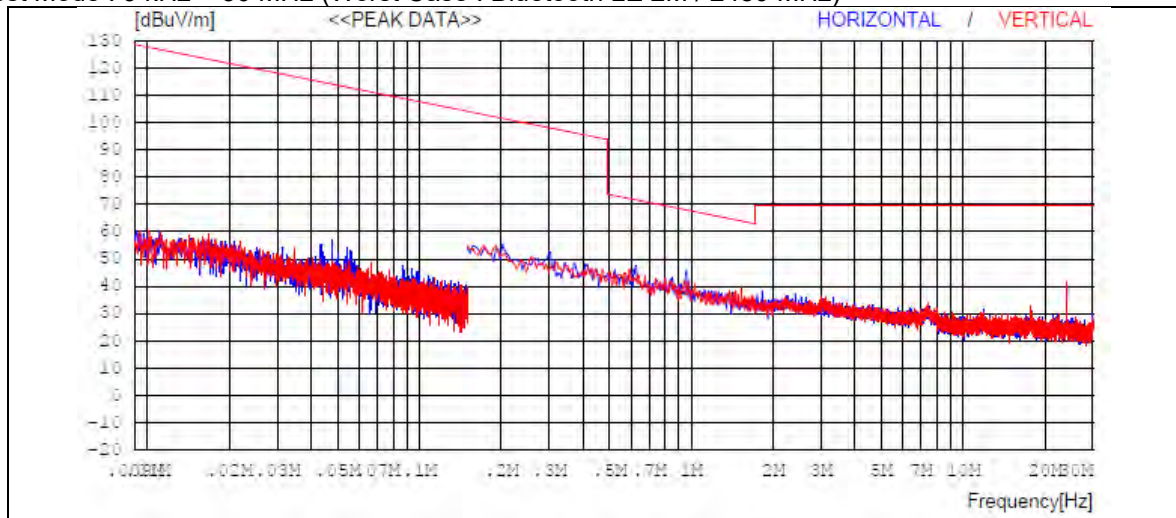
Note 1 : Measured distance : 1 m
Note 2 : Limit : Peak : 74 dBμV/m, Average : 54 dBμV/m

Test mode : 18 GHz ~ 26 GHz (Worst case : 2.4GHz(802.11n(HT20)))

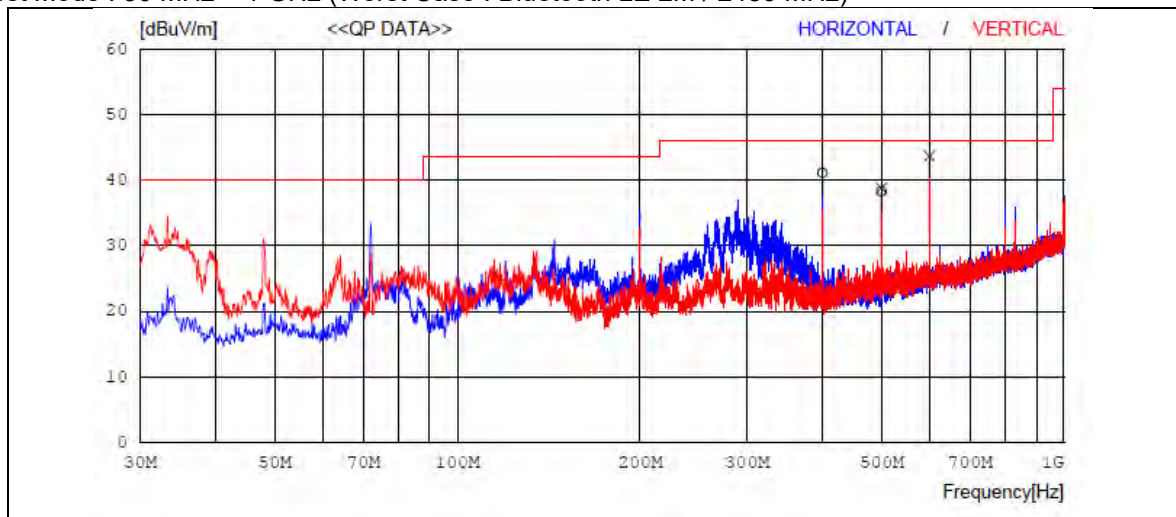


NOTE 1 : Measured distance : 1 m
NOTE 2 : Limit : Peak : 83.54 dBμV/m, Average : 63.54 dBμV/m

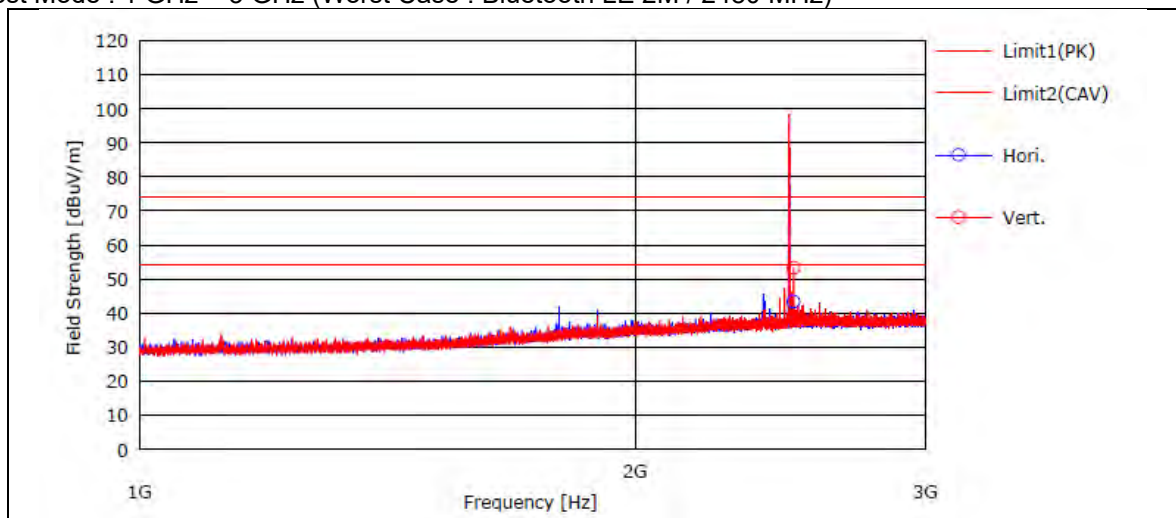
Test Mode : 9 kHz ~ 30 MHz (Worst Case : Bluetooth LE 2M / 2480 MHz)



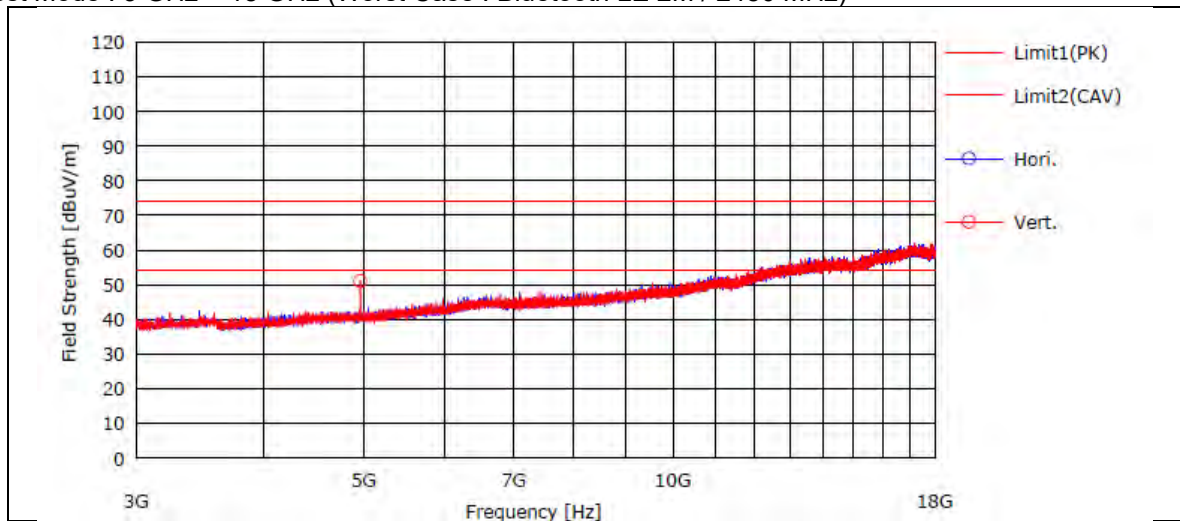
Test Mode : 30 MHz ~ 1 GHz (Worst Case : Bluetooth LE 2M / 2480 MHz)



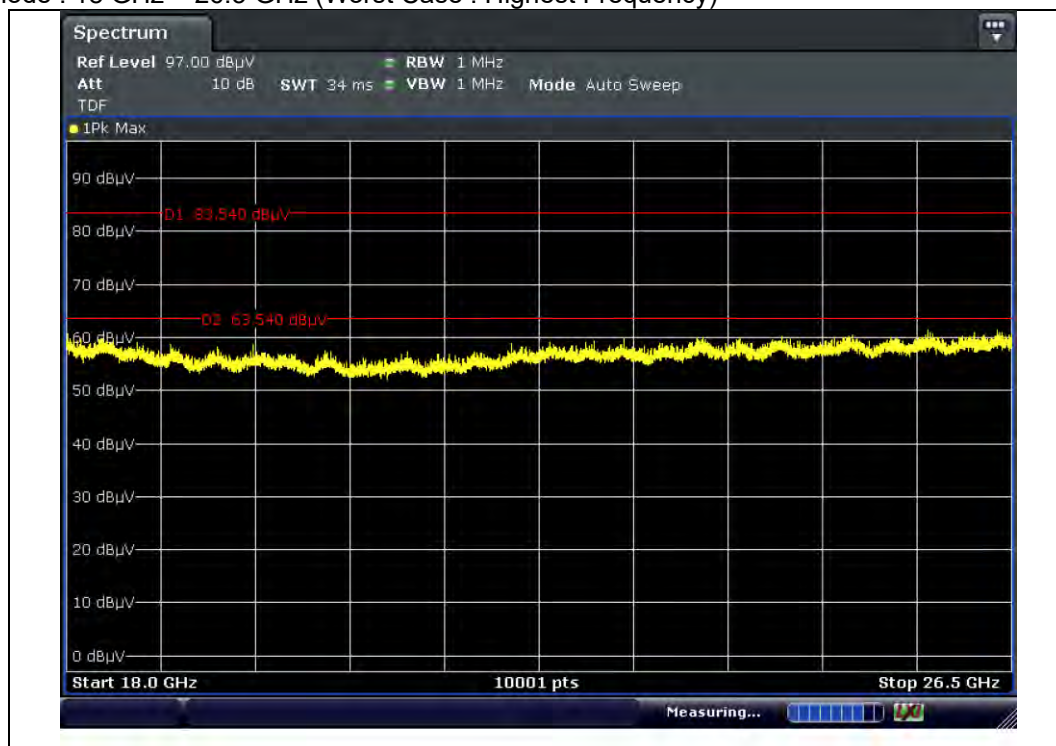
Test Mode : 1 GHz ~ 3 GHz (Worst Case : Bluetooth LE 2M / 2480 MHz)



Test Mode : 3 GHz ~ 18 GHz (Worst Case : Bluetooth LE 2M / 2480 MHz)



Test Mode : 18 GHz ~ 26.5 GHz (Worst Case : Highest Frequency)



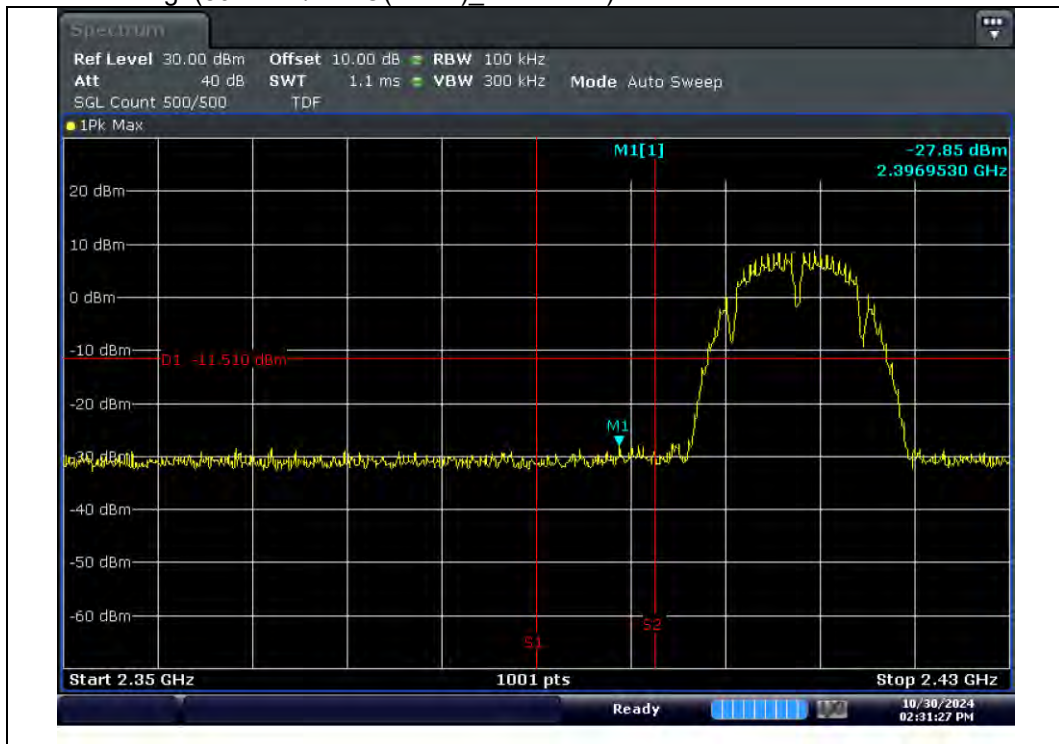
Note 1: Limit : Peak : 83.54 dBuV/m, Average : 63.54 dBuV/m

4.3.5.7 Measurement data_Conducted Spurious Emissions

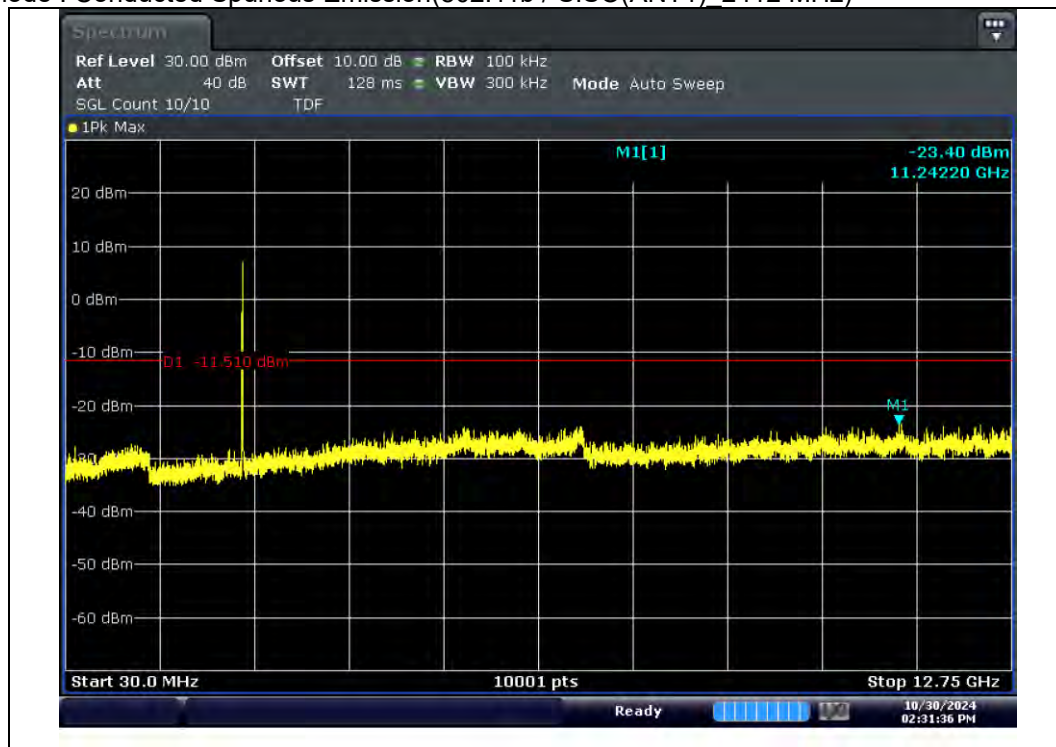
Test mode : Reference(802.11b / SISO(ANT1)_ 2412 MHz)



Test mode : Bandedge(802.11b / SISO(ANT1)_ 2412 MHz)



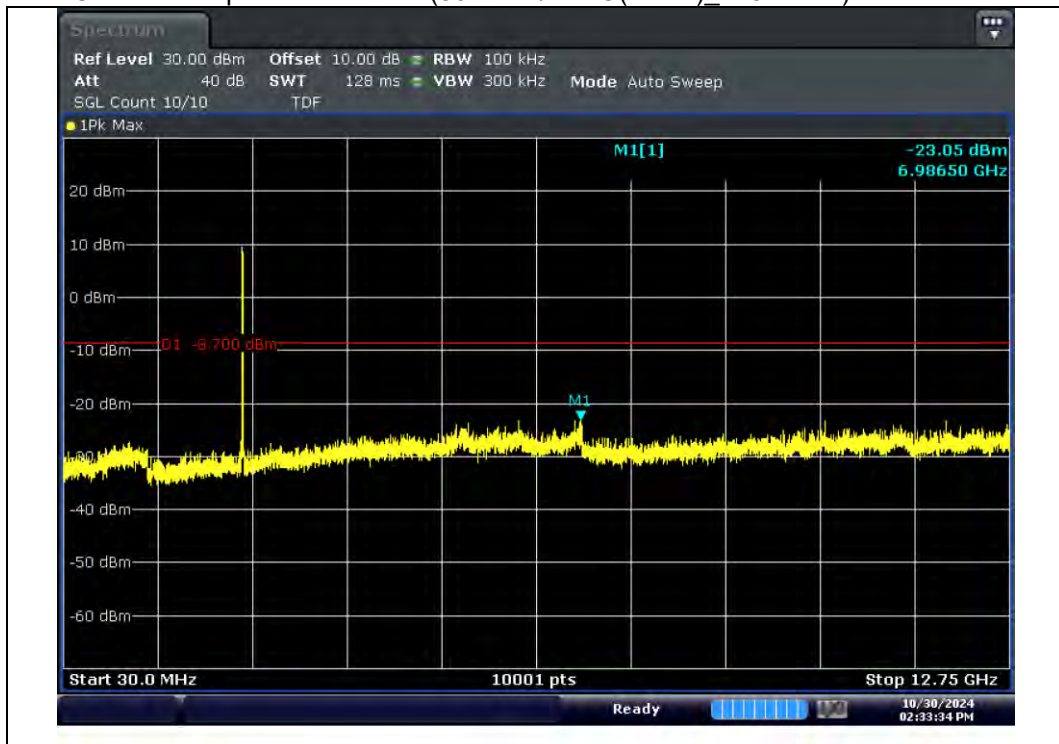
Test mode : Conducted Spurious Emission(802.11b / SISO(ANT1) 2412 MHz)



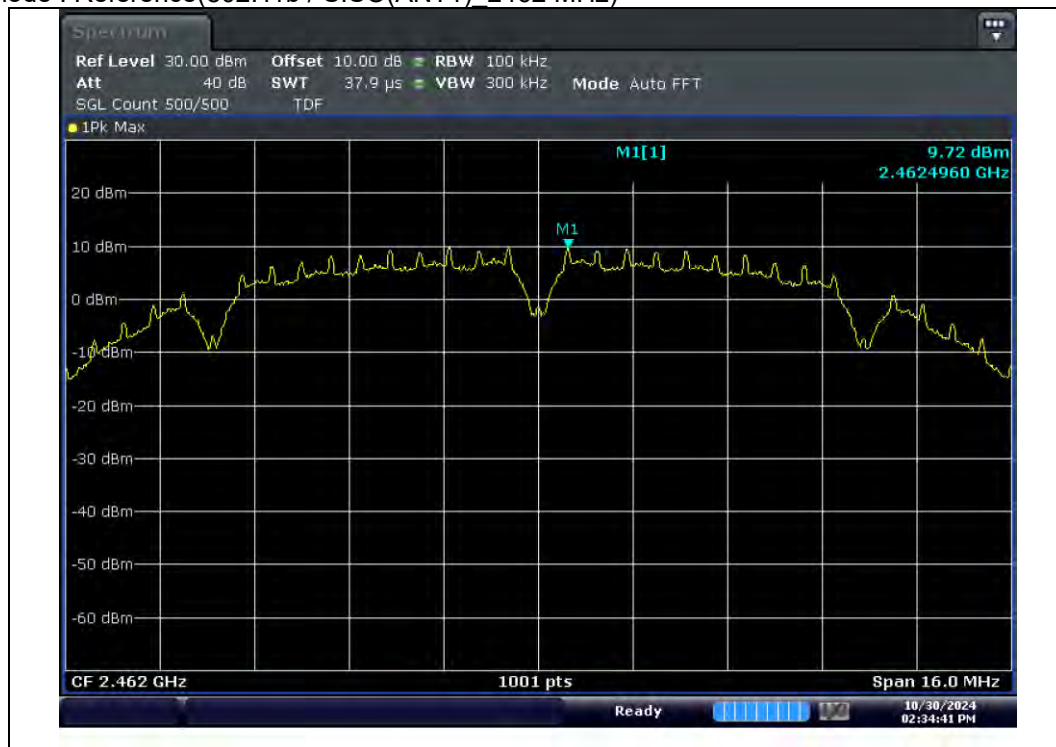
Test mode : Reference(802.11b / SISO(ANT1)_ 2437 MHz)



Test mode : Conducted Spurious Emission(802.11b / SISO(ANT1)_ 2437 MHz)



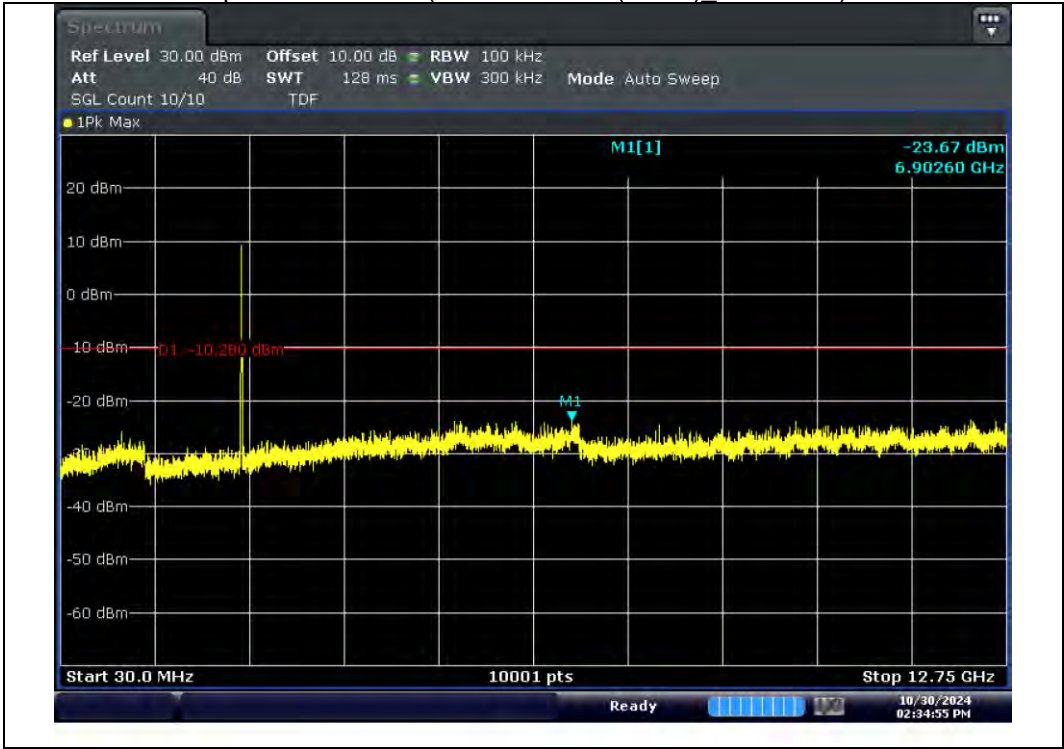
Test mode : Reference(802.11b / SISO(ANT1)_ 2462 MHz)



Test mode : Bandedge(802.11b / SISO(ANT1)_ 2462 MHz)



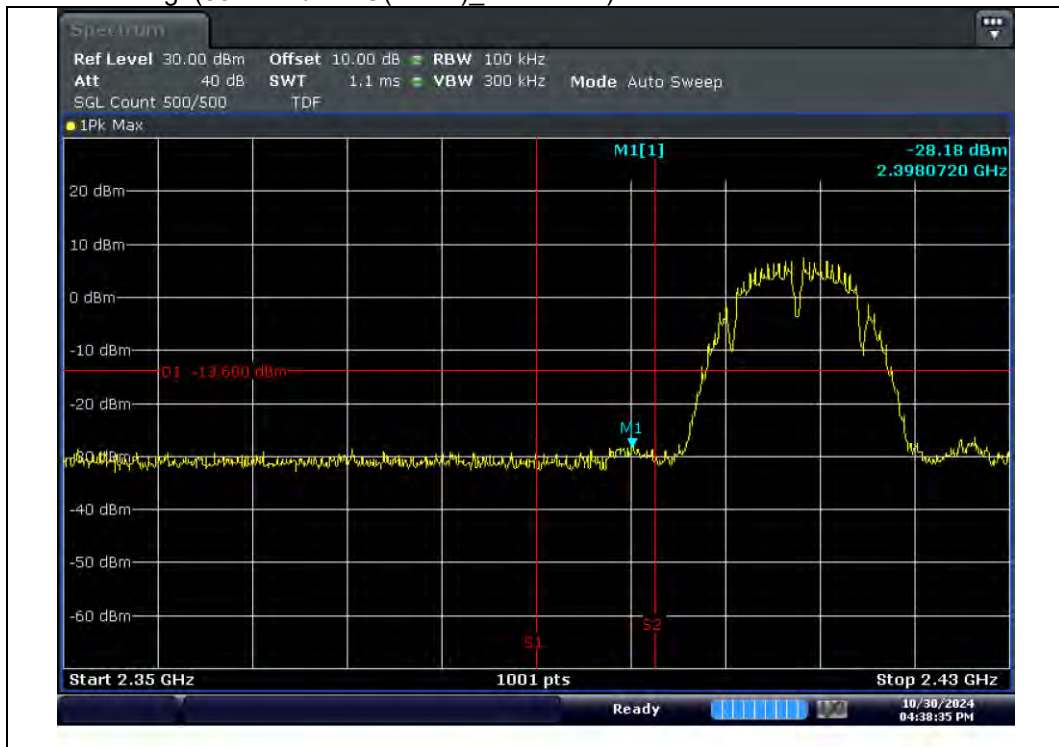
Test mode : Conducted Spurious Emission(802.11b / SISO(ANT1) 2462 MHz)



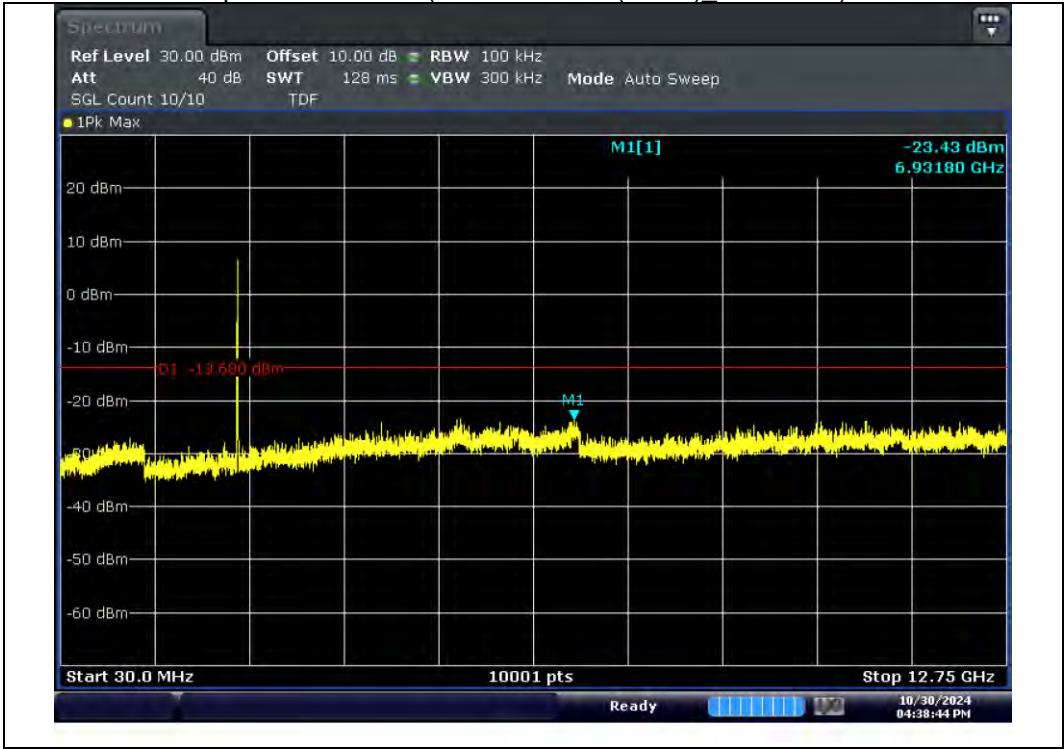
Test mode : Reference(802.11b / SISO(ANT2)_ 2412 MHz)



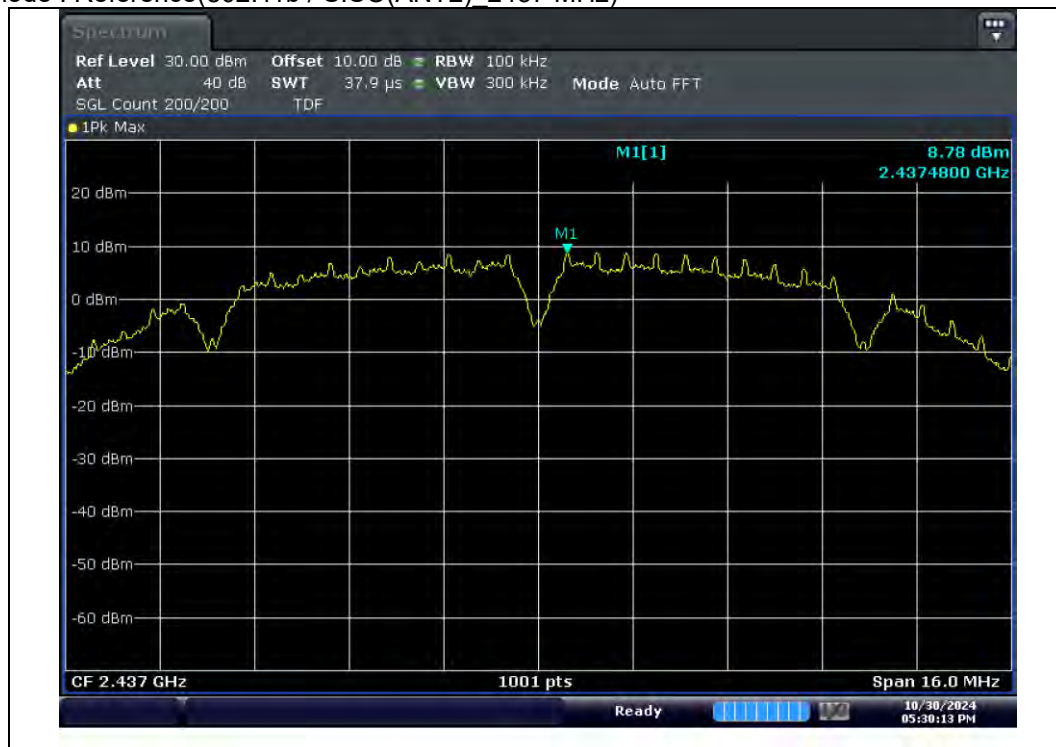
Test mode : Bandedge(802.11b / SISO(ANT2)_ 2412 MHz)



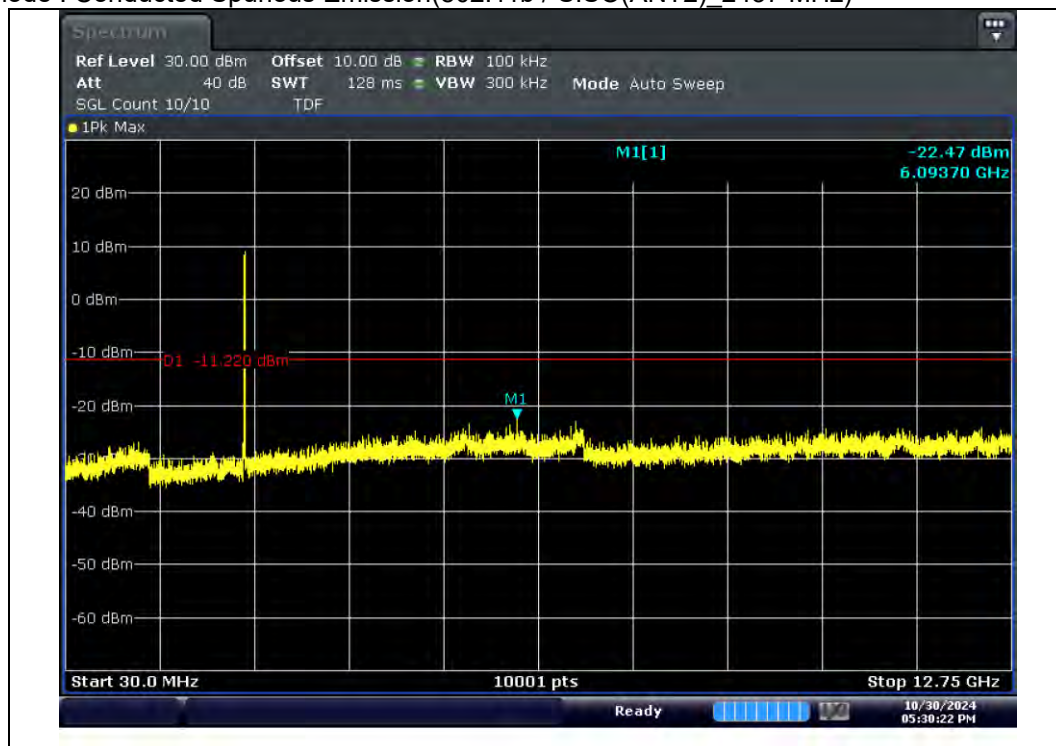
Test mode : Conducted Spurious Emission(802.11b / SISO(ANT2) 2412 MHz)



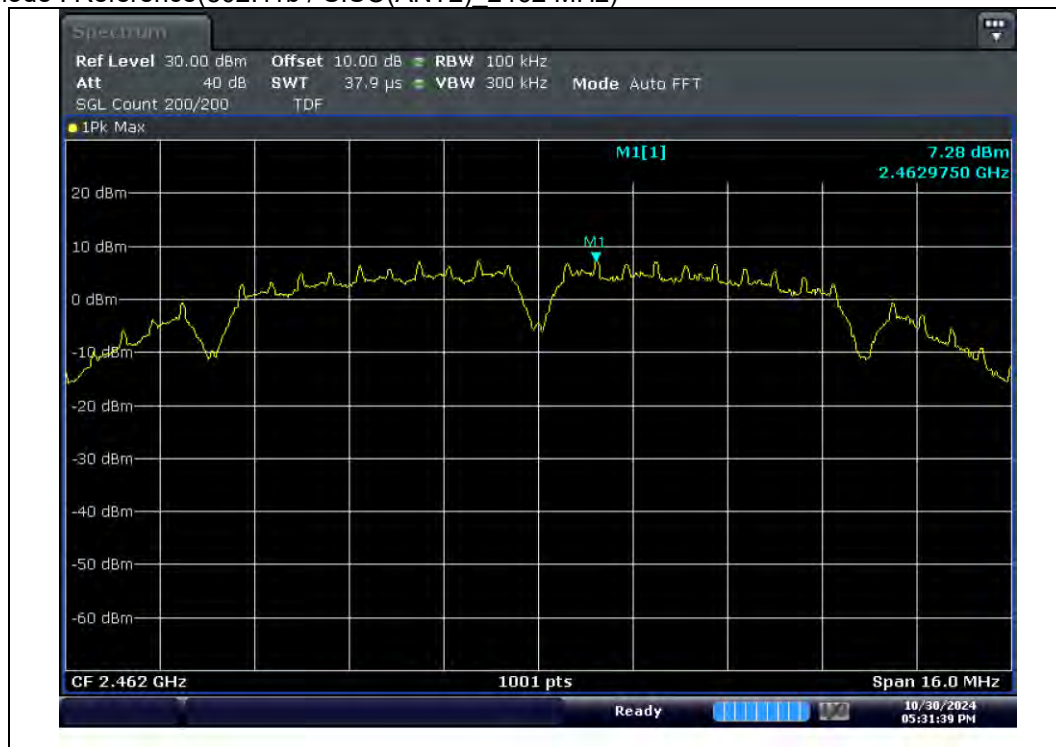
Test mode : Reference(802.11b / SISO(ANT2)_ 2437 MHz)



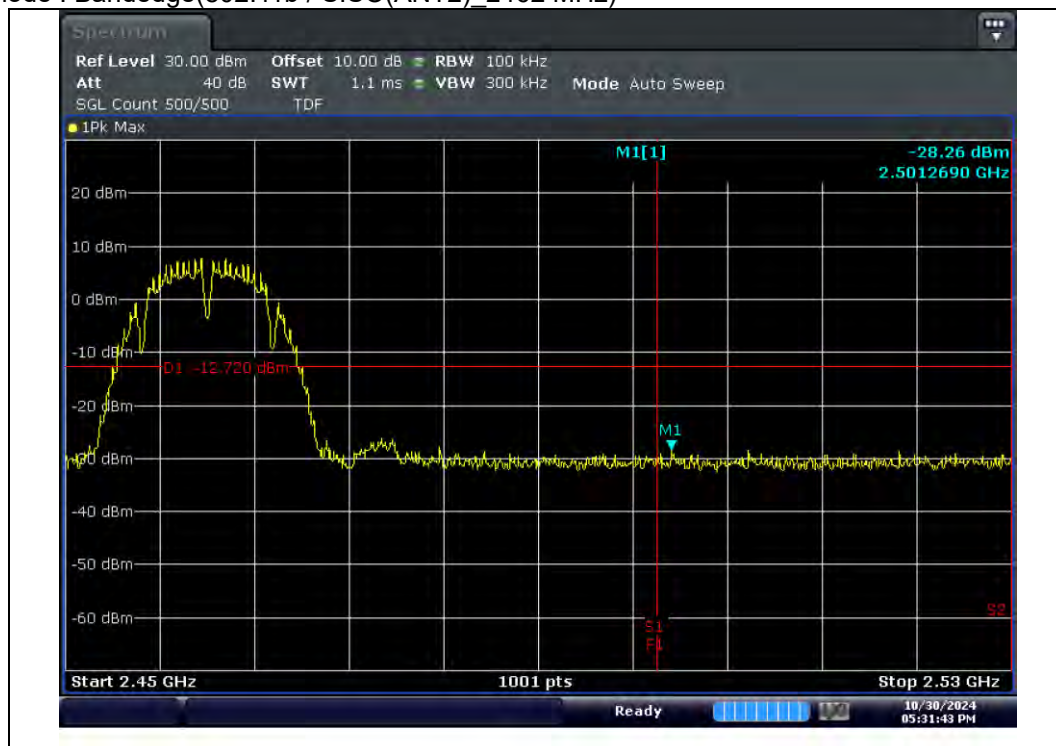
Test mode : Conducted Spurious Emission(802.11b / SISO(ANT2)_ 2437 MHz)



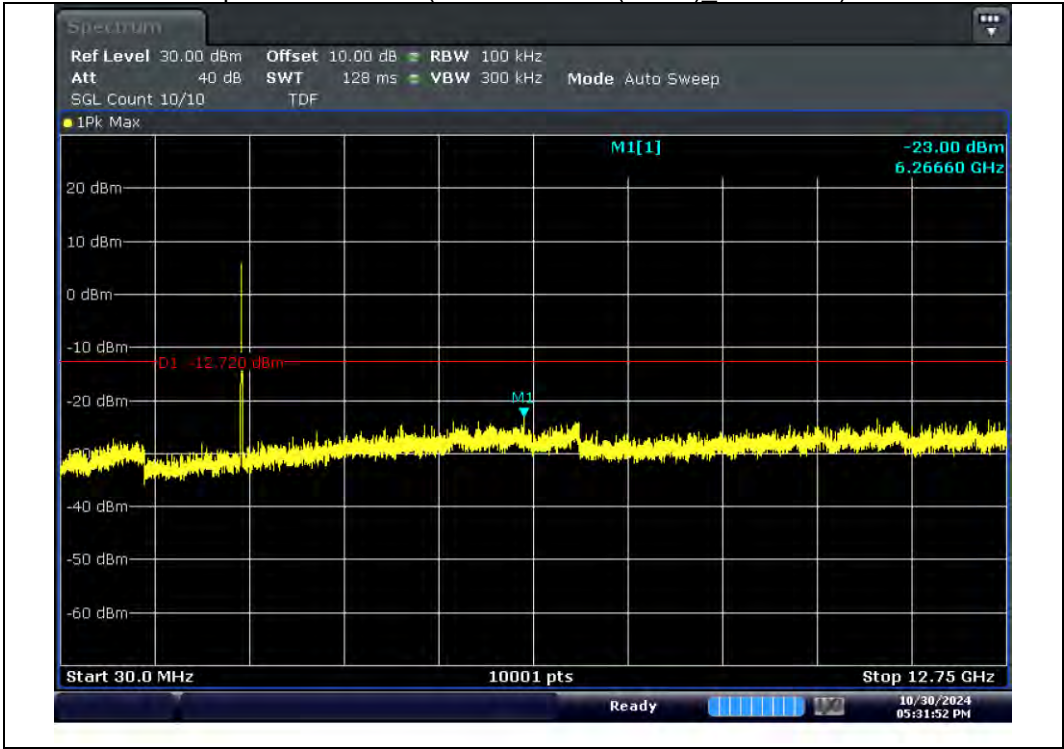
Test mode : Reference(802.11b / SISO(ANT2)_ 2462 MHz)



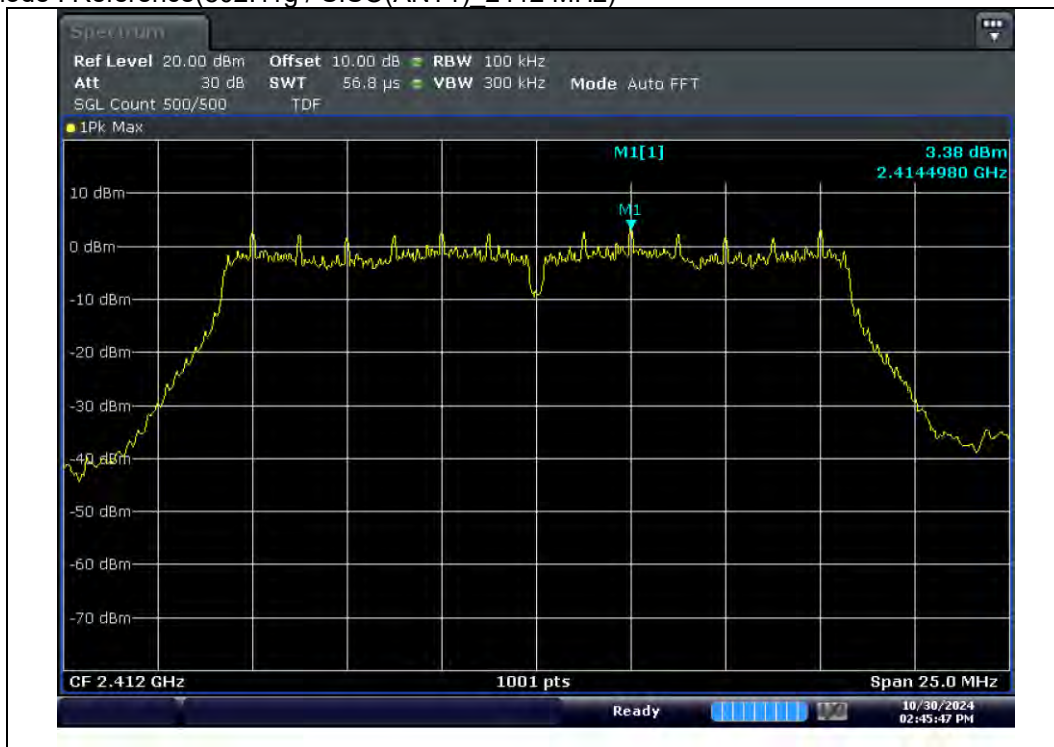
Test mode : Bandedge(802.11b / SISO(ANT2)_ 2462 MHz)



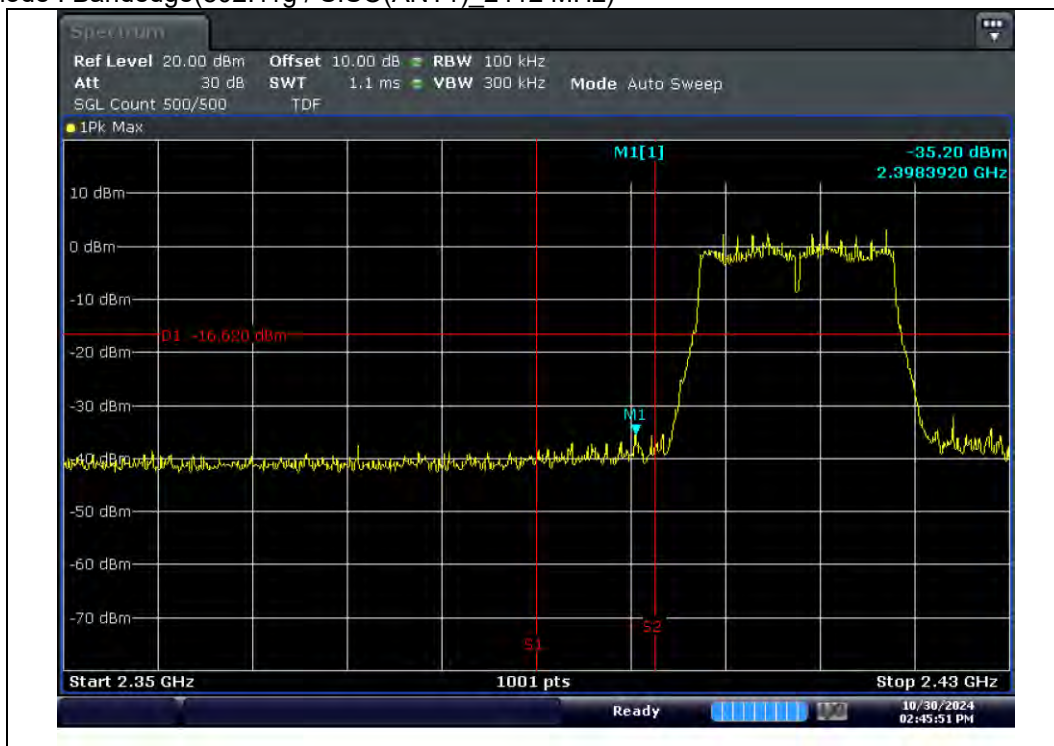
Test mode : Conducted Spurious Emission(802.11b / SISO(ANT2) 2462 MHz)



Test mode : Reference(802.11g / SISO(ANT1)_ 2412 MHz)



Test mode : Bandedge(802.11g / SISO(ANT1)_ 2412 MHz)



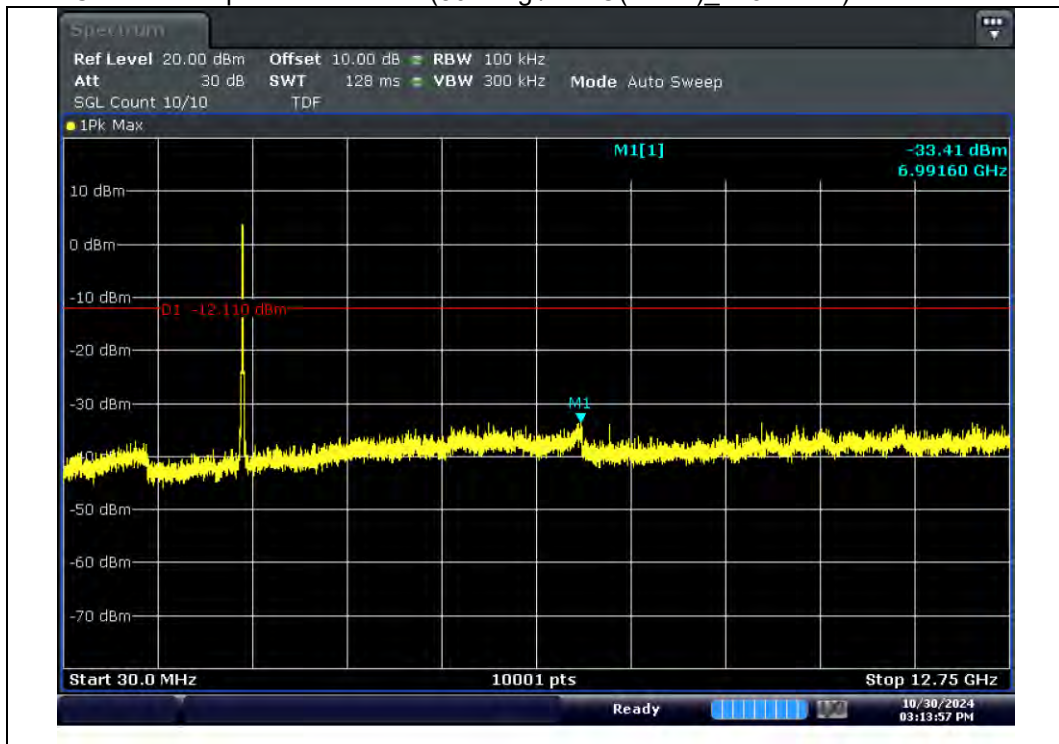
Test mode : Conducted Spurious Emission(802.11g / SISO(ANT1) 2412 MHz)



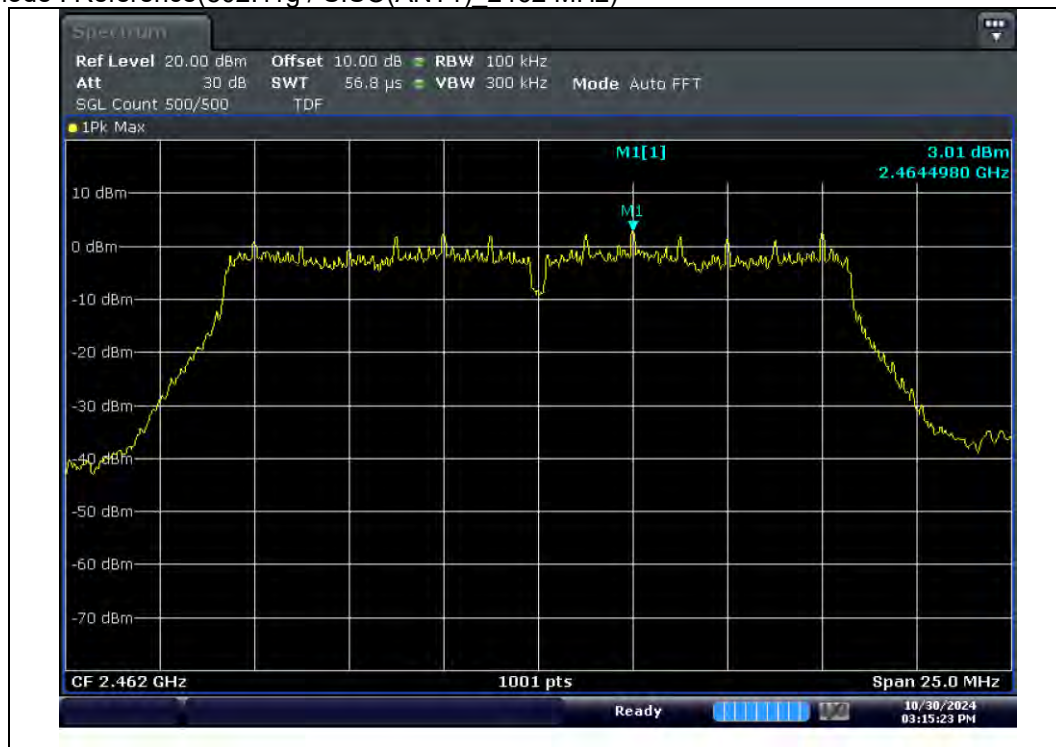
Test mode : Reference(802.11g / SISO(ANT1)_ 2437 MHz)



Test mode : Conducted Spurious Emission(802.11g / SISO(ANT1)_ 2437 MHz)



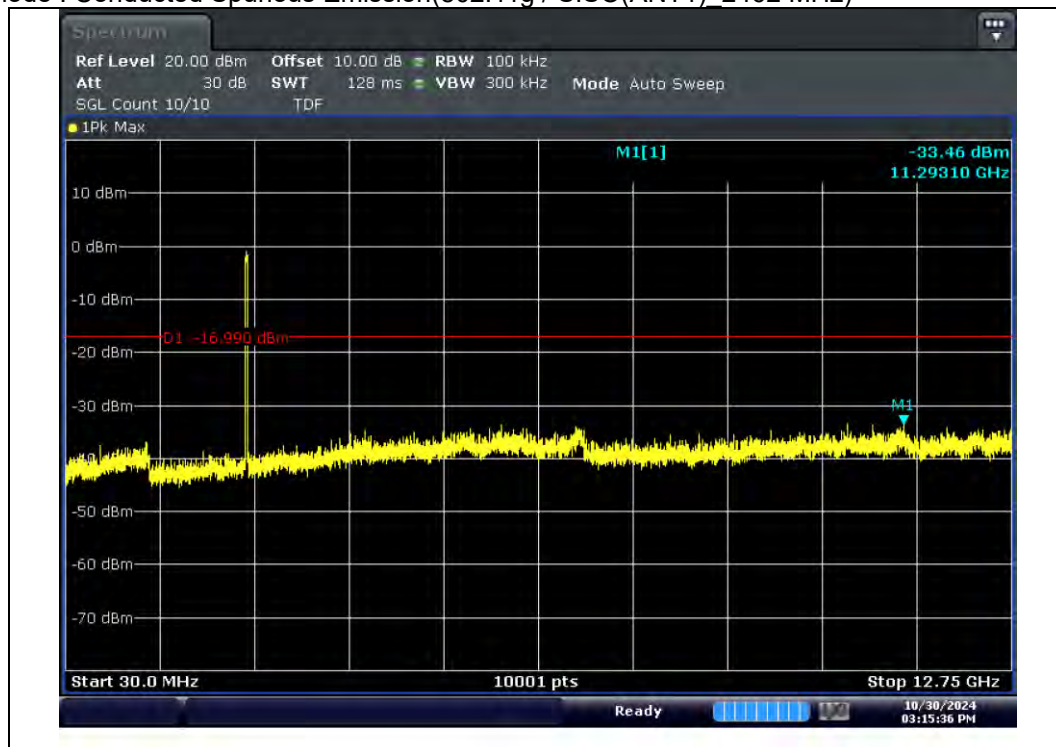
Test mode : Reference(802.11g / SISO(ANT1)_ 2462 MHz)



Test mode : Bandedge(802.11g / SISO(ANT1)_ 2462 MHz)



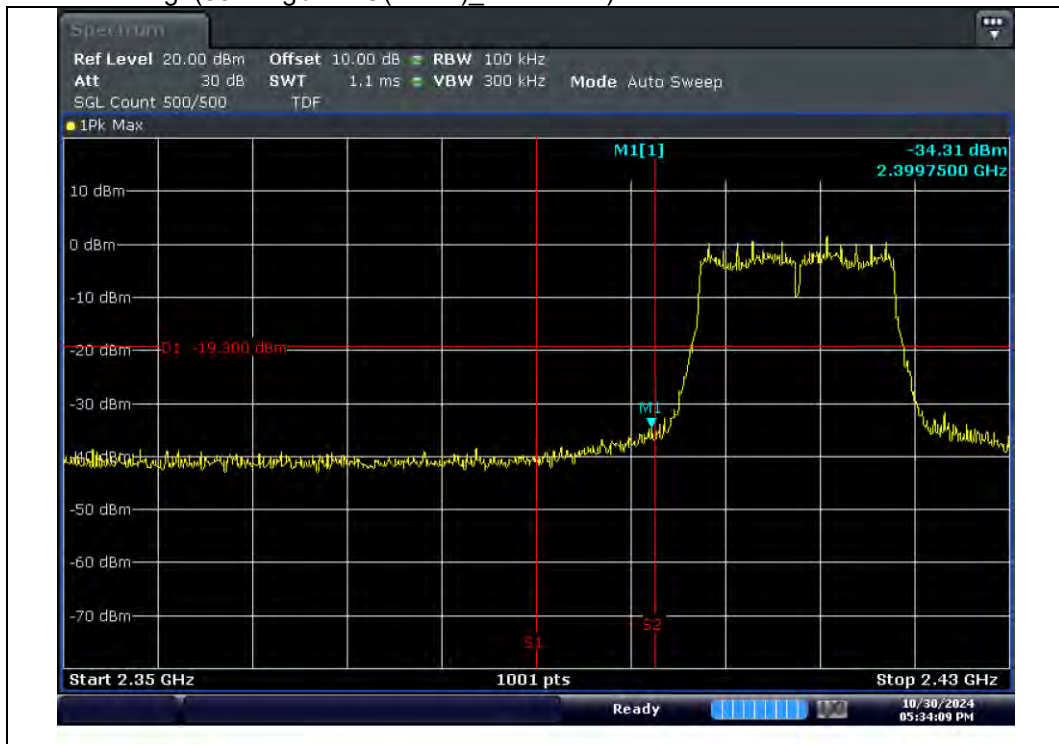
Test mode : Conducted Spurious Emission(802.11g / SISO(ANT1) 2462 MHz)



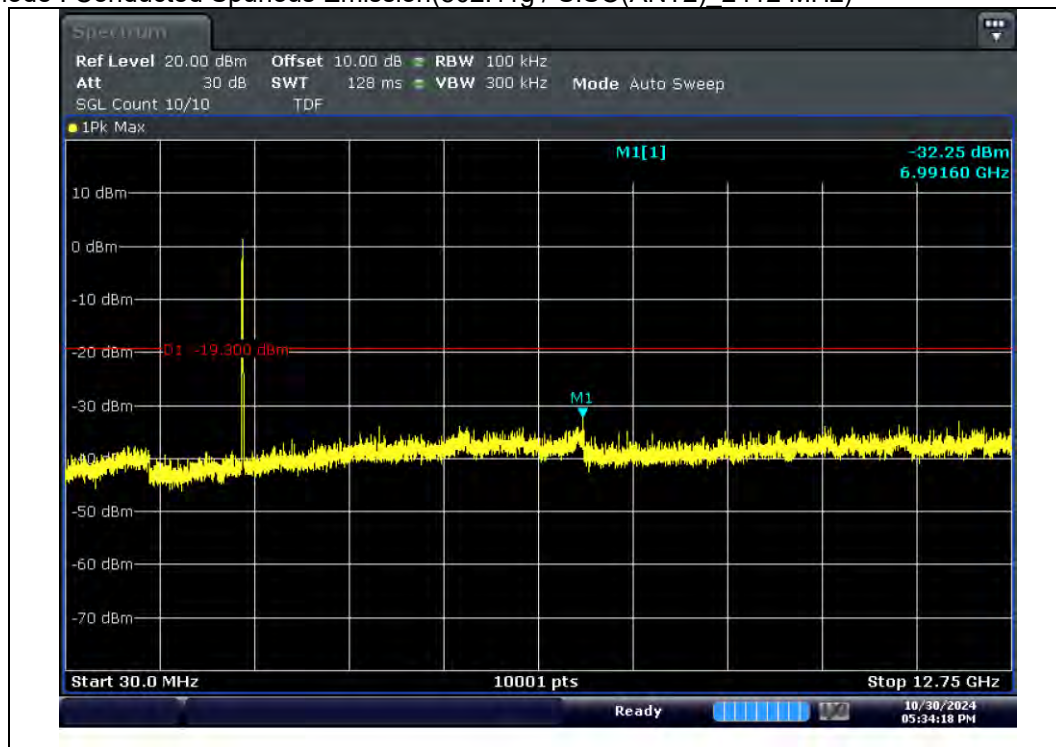
Test mode : Reference(802.11g / SISO(ANT2)_ 2412 MHz)



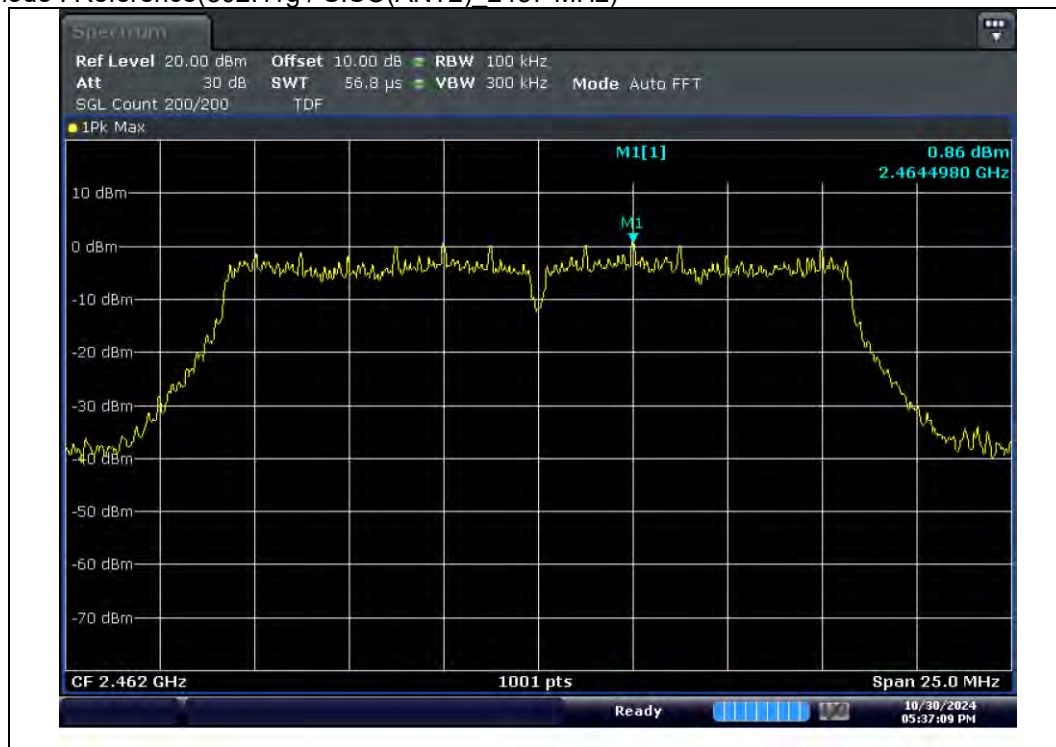
Test mode : Bandedge(802.11g / SISO(ANT2)_ 2412 MHz)



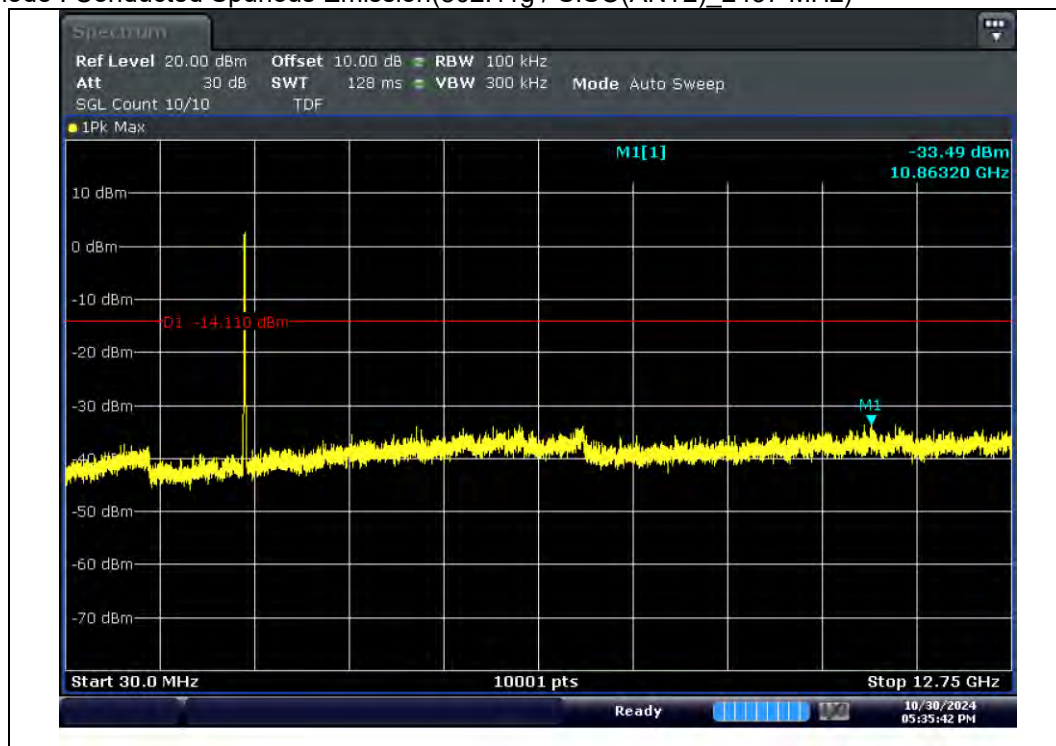
Test mode : Conducted Spurious Emission(802.11g / SISO(ANT2) 2412 MHz)



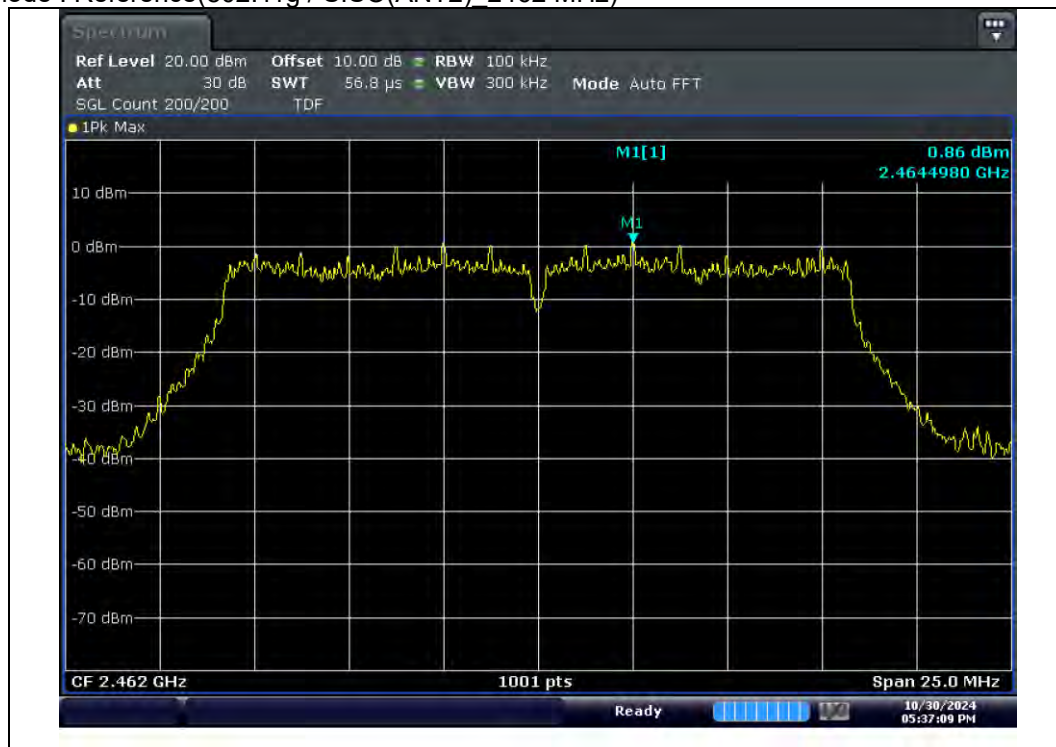
Test mode : Reference(802.11g / SISO(ANT2)_2437 MHz)



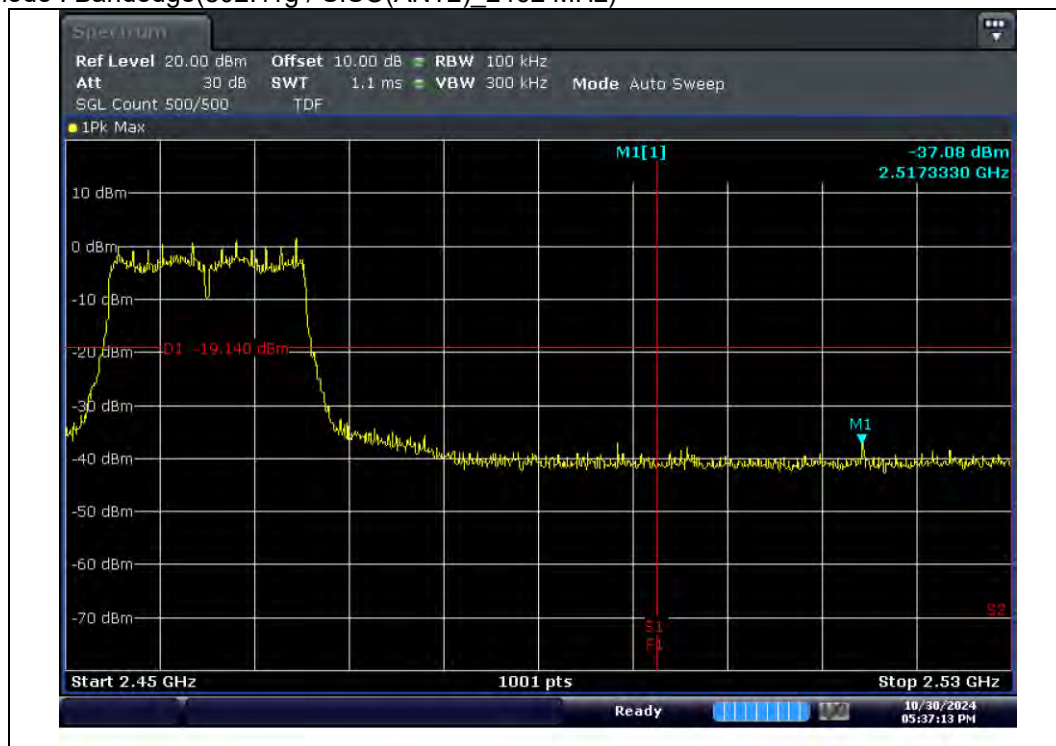
Test mode : Conducted Spurious Emission(802.11g / SISO(ANT2)_2437 MHz)



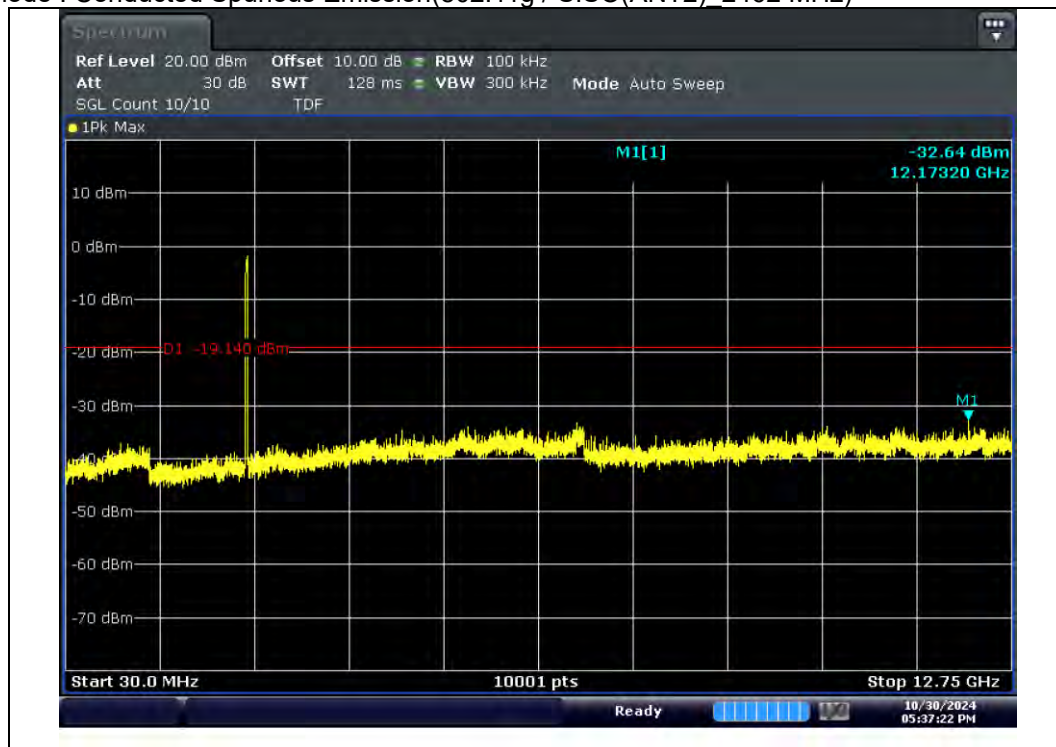
Test mode : Reference(802.11g / SISO(ANT2) 2462 MHz)



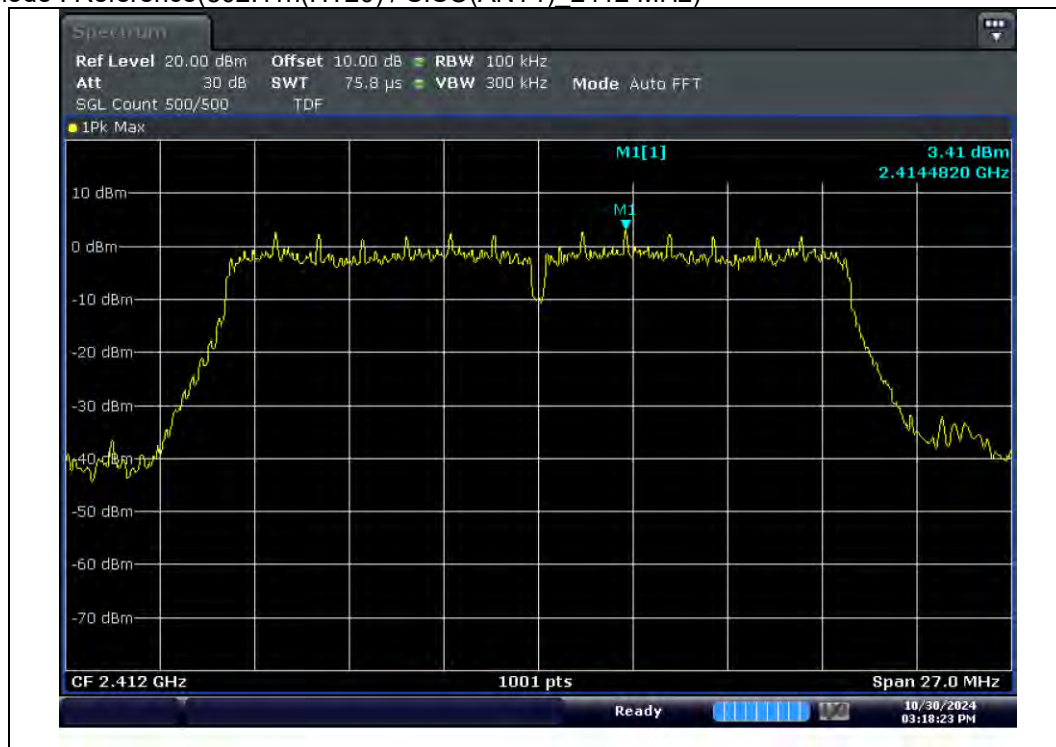
Test mode : Bandedge(802.11g / SISO(ANT2)_2462 MHz)



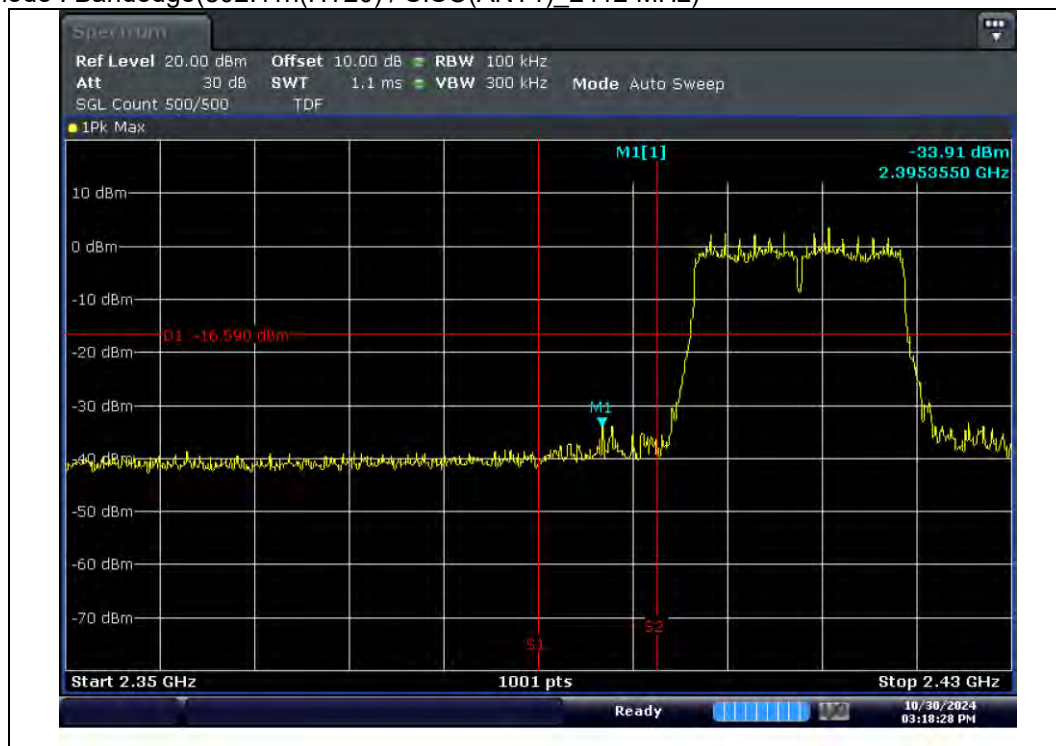
Test mode : Conducted Spurious Emission(802.11g / SISO(ANT2) 2462 MHz)



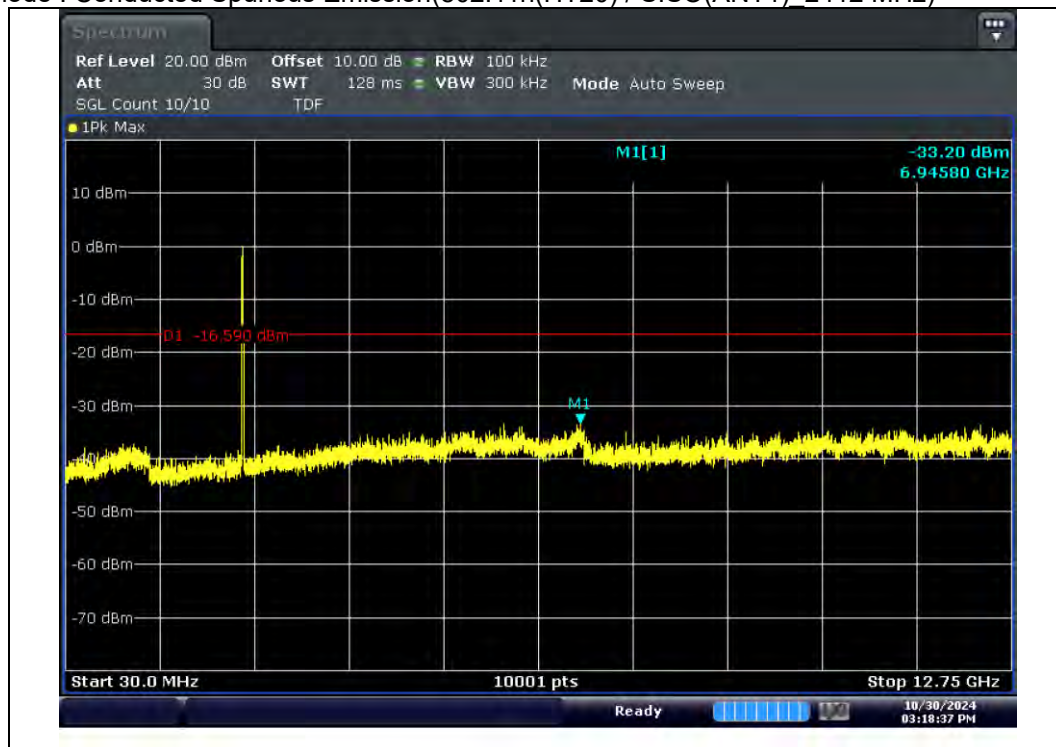
Test mode : Reference(802.11n(HT20) / SISO(ANT1)_ 2412 MHz)



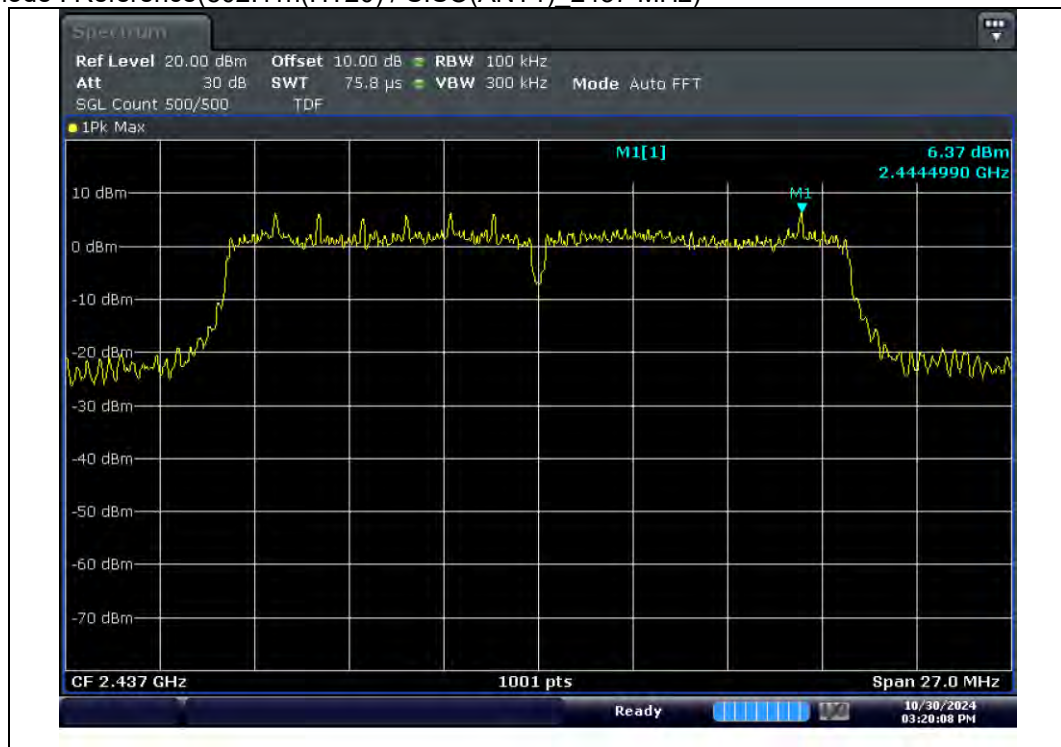
Test mode : Bandedge(802.11n(HT20) / SISO(ANT1)_ 2412 MHz)



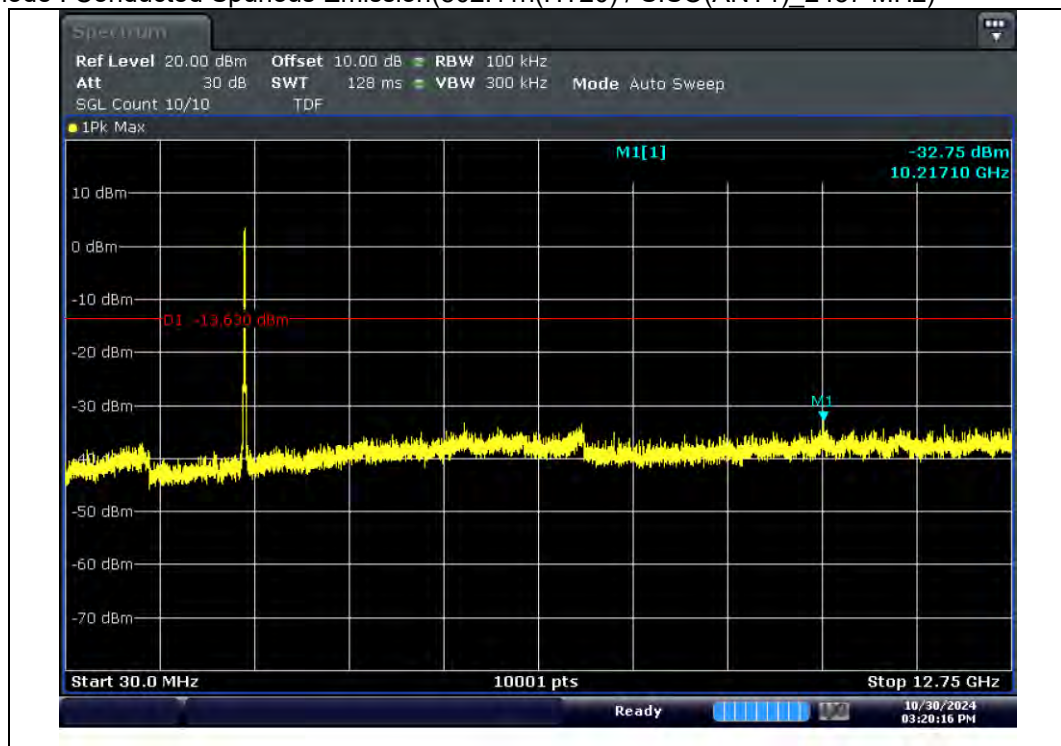
Test mode : Conducted Spurious Emission(802.11n(HT20) / SISO(ANT1), 2412 MHz)



Test mode : Reference(802.11n(HT20) / SISO(ANT1)_ 2437 MHz)



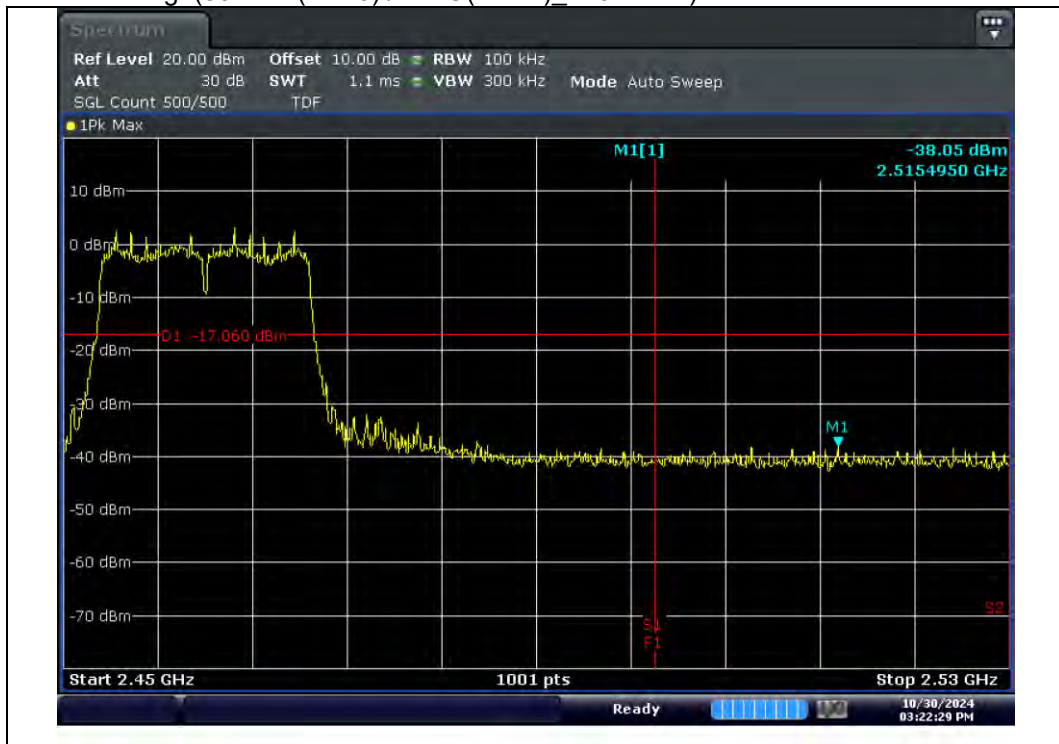
Test mode : Conducted Spurious Emission(802.11n(HT20) / SISO(ANT1)_ 2437 MHz)



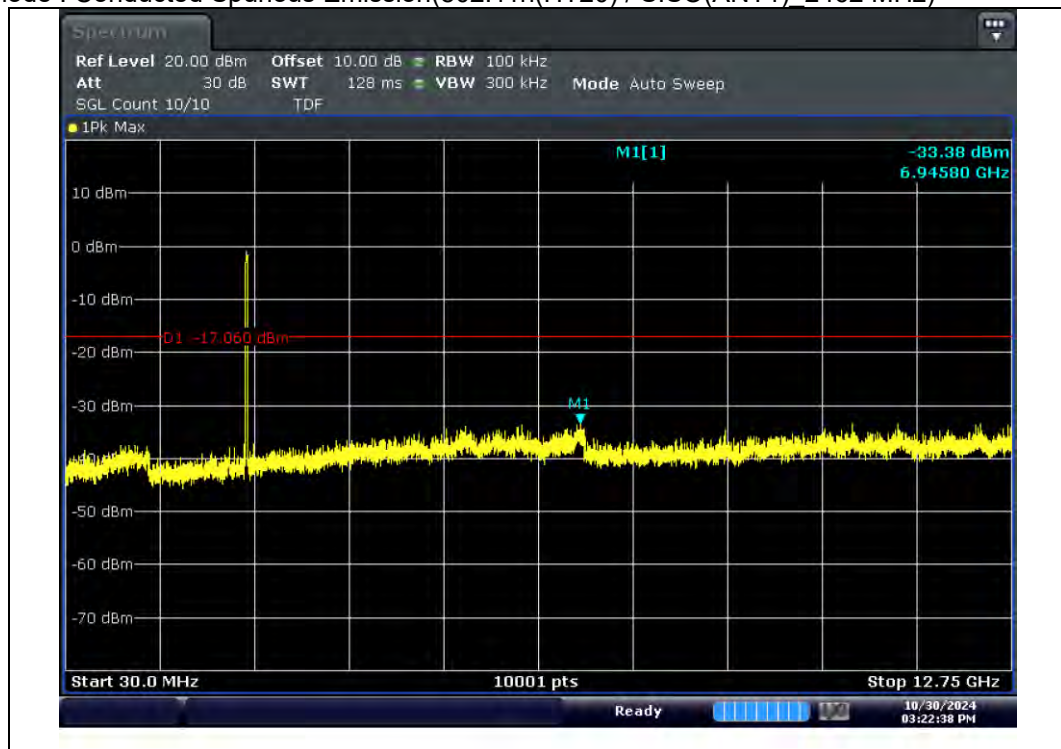
Test mode : Reference(802.11n(HT20) / SISO(ANT1)_ 2462 MHz)



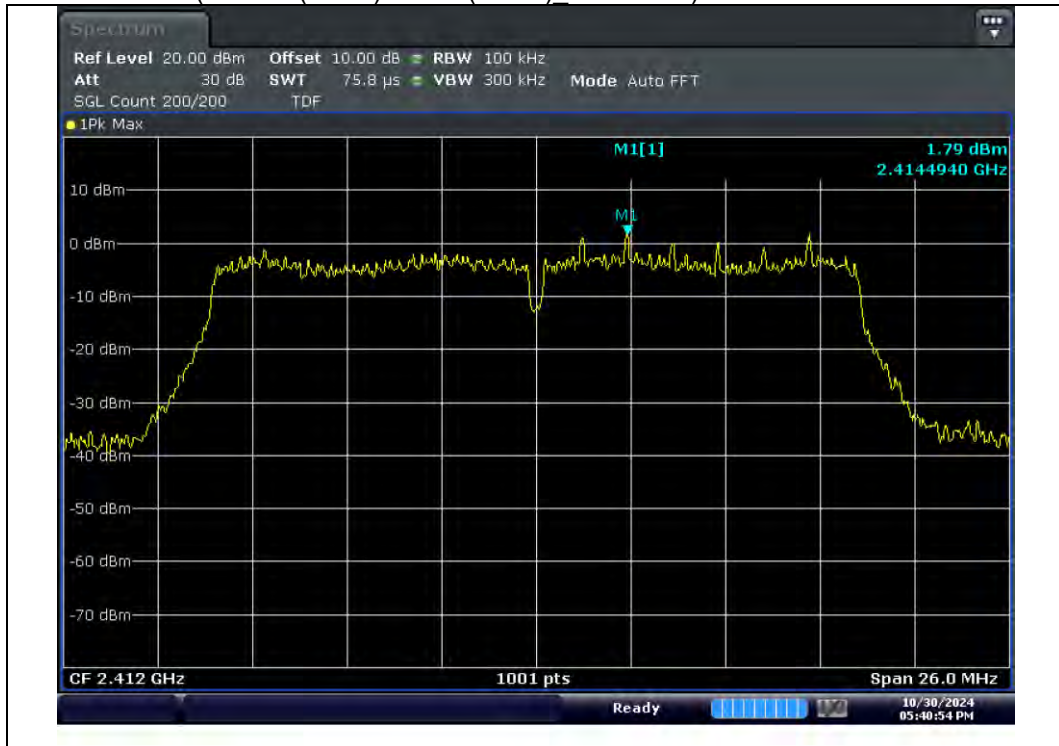
Test mode : Bandedge(802.11n(HT20) / SISO(ANT1)_ 2462 MHz)



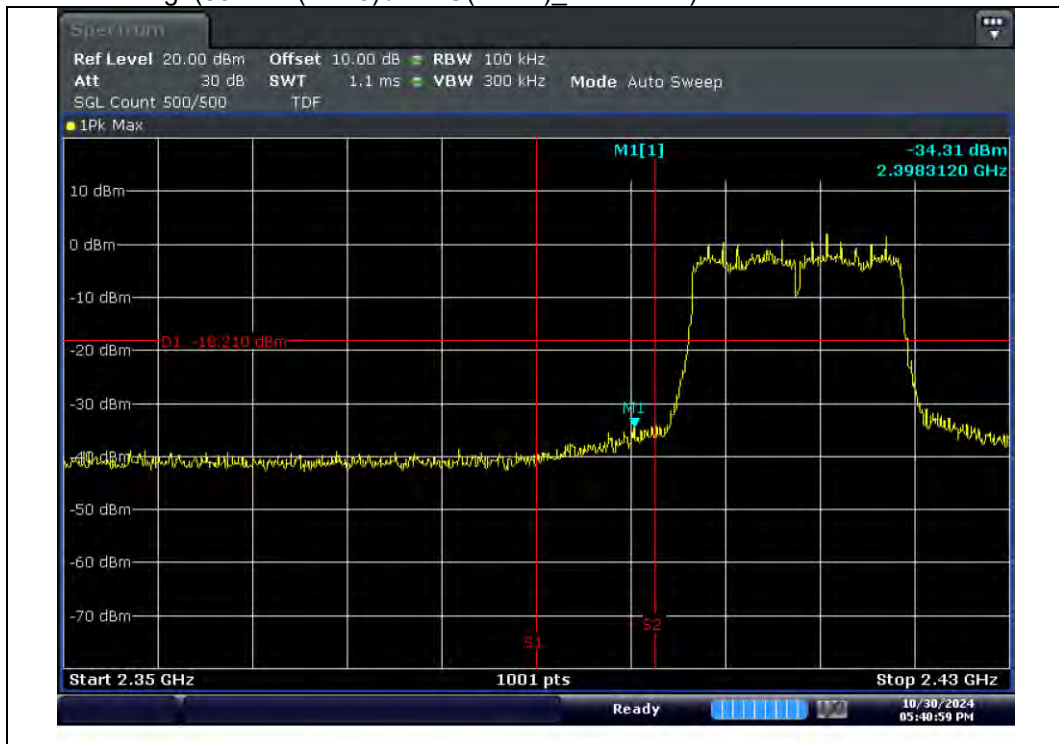
Test mode : Conducted Spurious Emission(802.11n(HT20) / SISO(ANT1)_ 2462 MHz)



Test mode : Reference(802.11n(HT20) / SISO(ANT2)_2412 MHz)



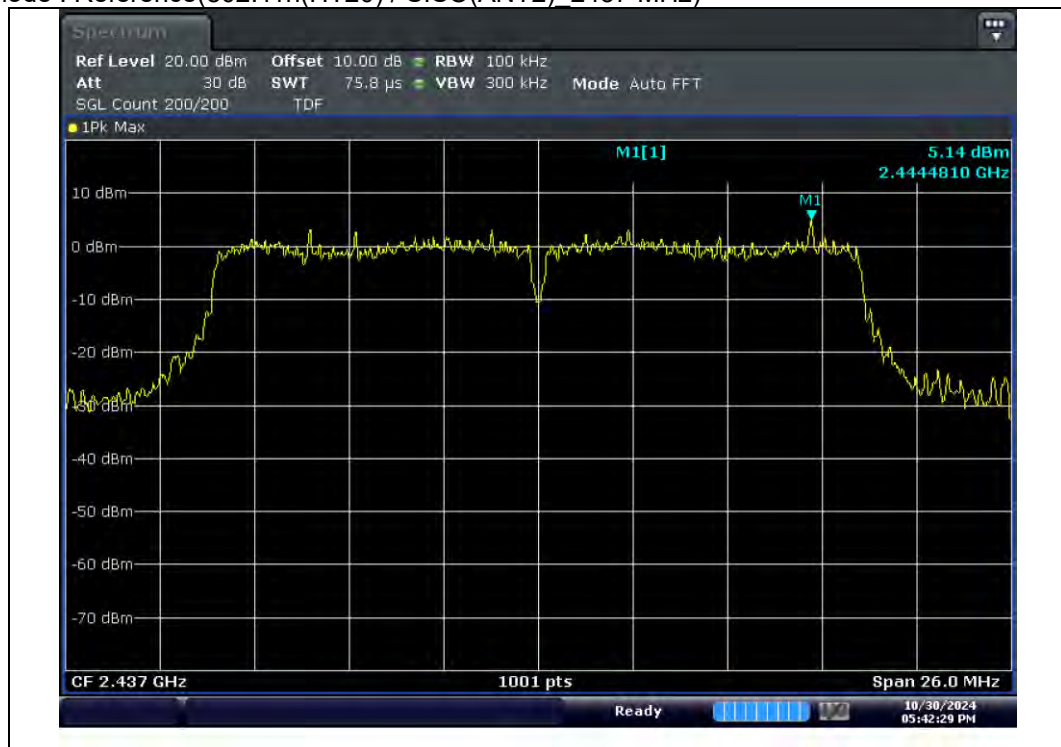
Test mode : Bandedge(802.11n(HT20) / SISO(ANT2)_2412 MHz)



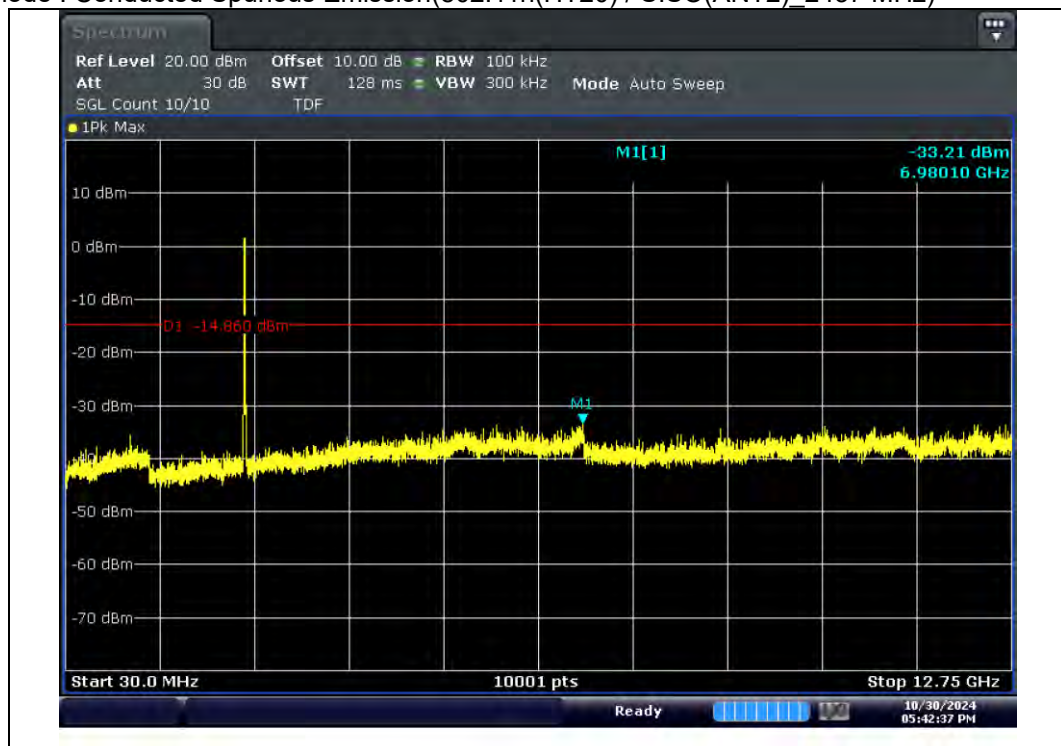
Test mode : Conducted Spurious Emission(802.11n(HT20) / SISO(ANT2) 2412 MHz)



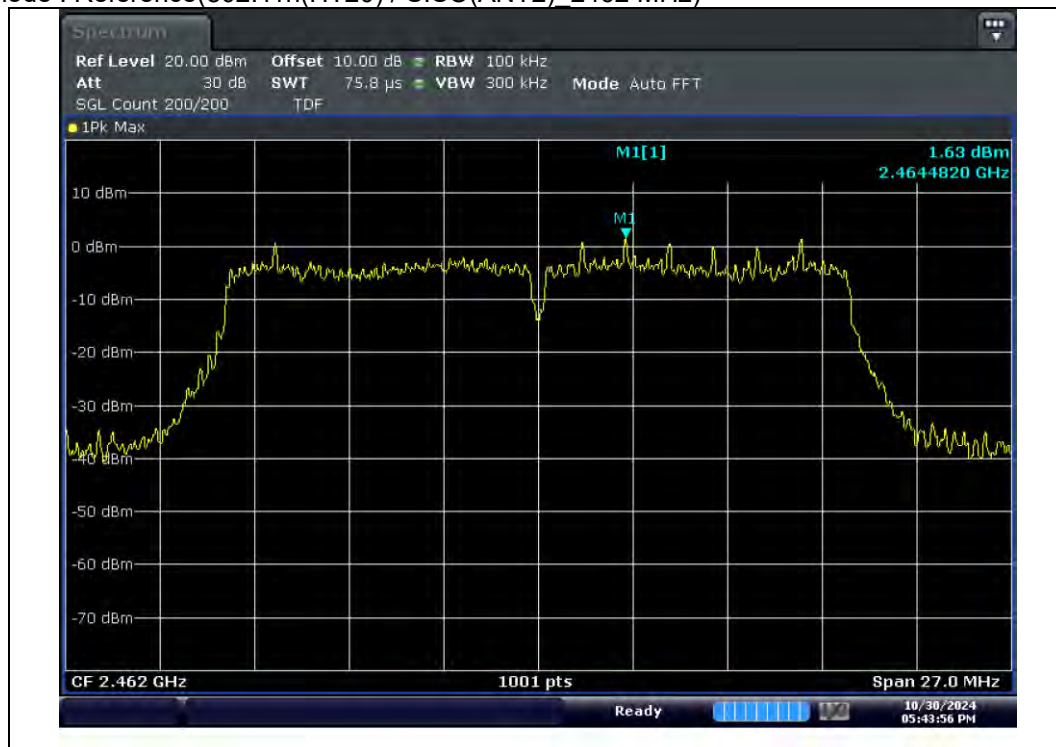
Test mode : Reference(802.11n(HT20) / SISO(ANT2)_2437 MHz)



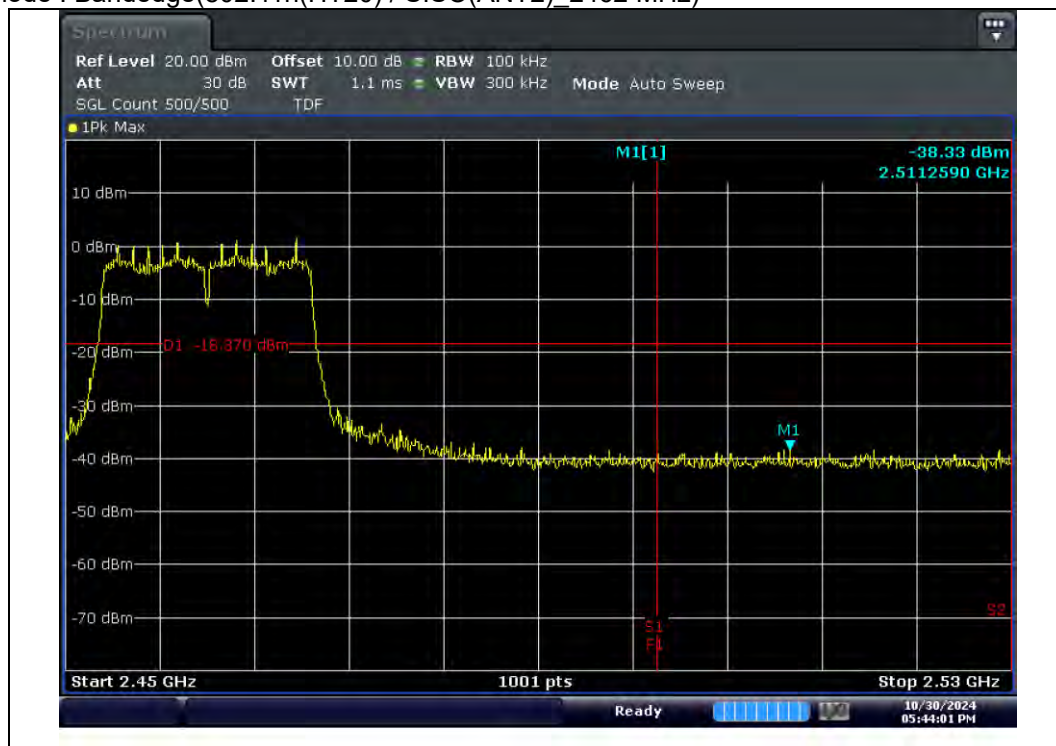
Test mode : Conducted Spurious Emission(802.11n(HT20) / SISO(ANT2)_2437 MHz)



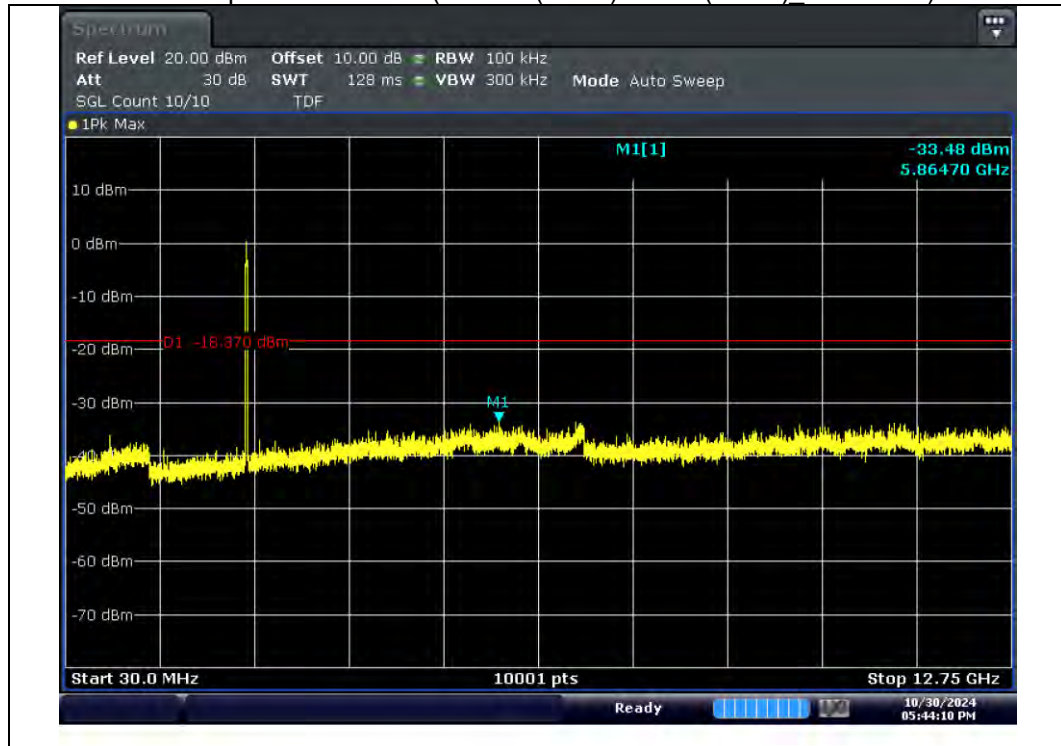
Test mode : Reference(802.11n(HT20) / SISO(ANT2)_2462 MHz)



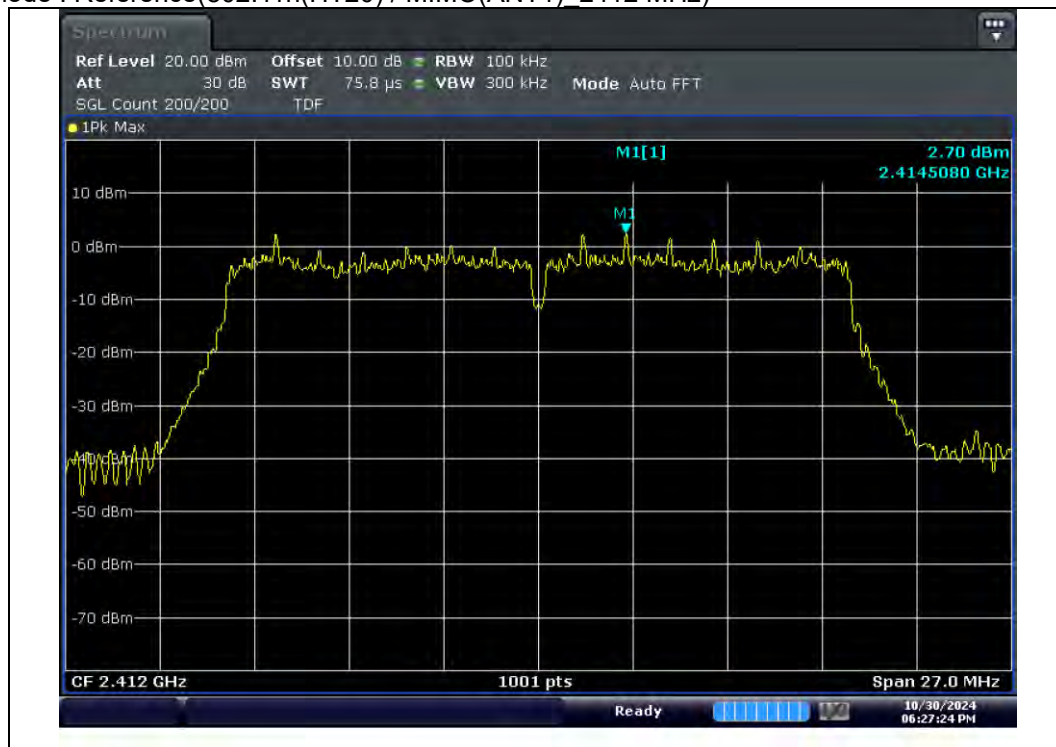
Test mode : Bandedge(802.11n(HT20) / SISO(ANT2)_2462 MHz)



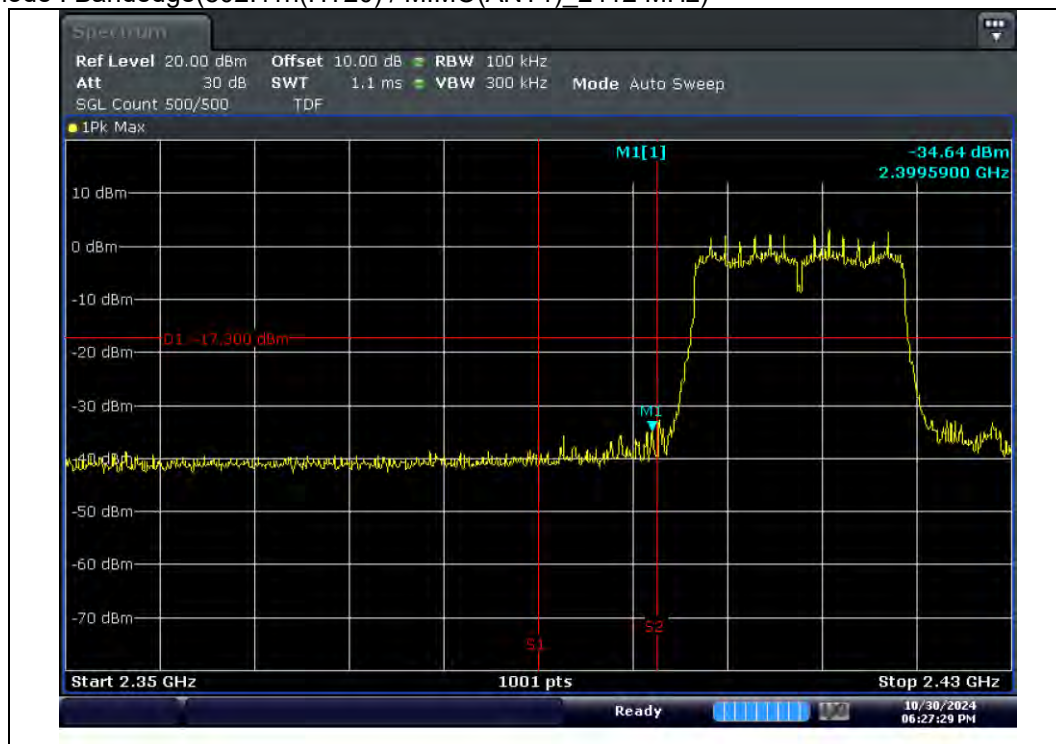
Test mode : Conducted Spurious Emission(802.11n(HT20) / SISO(ANT2) 2462 MHz)



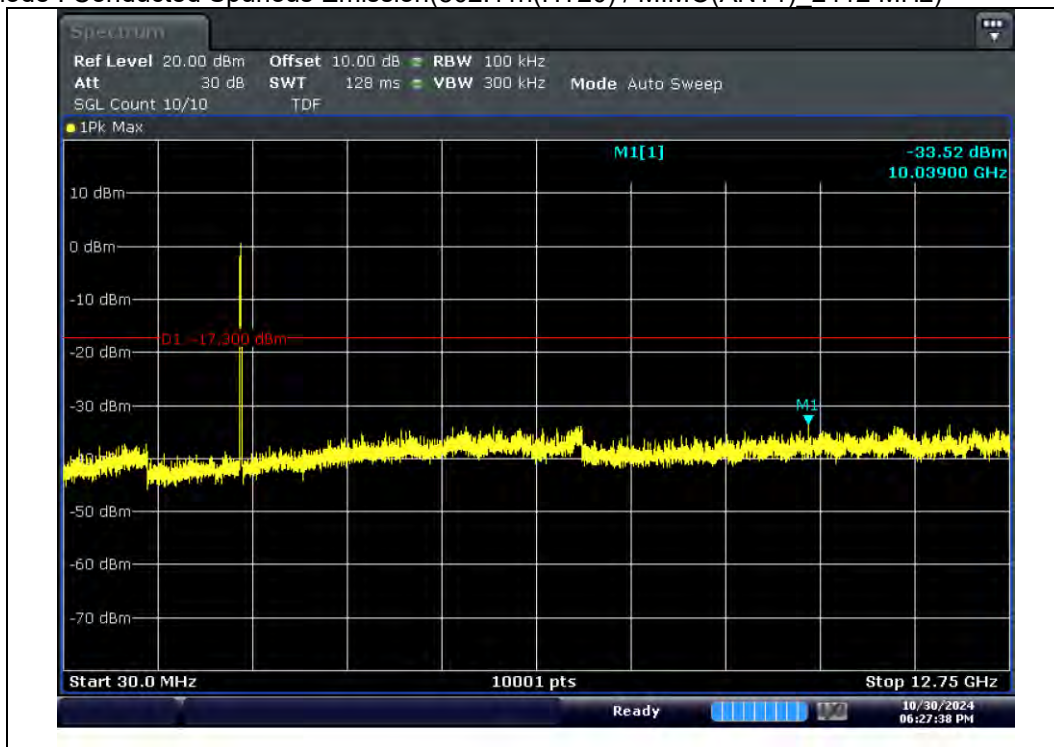
Test mode : Reference(802.11n(HT20) / MIMO(ANT1)_ 2412 MHz)



Test mode : Bandedge(802.11n(HT20) / MIMO(ANT1)_ 2412 MHz)



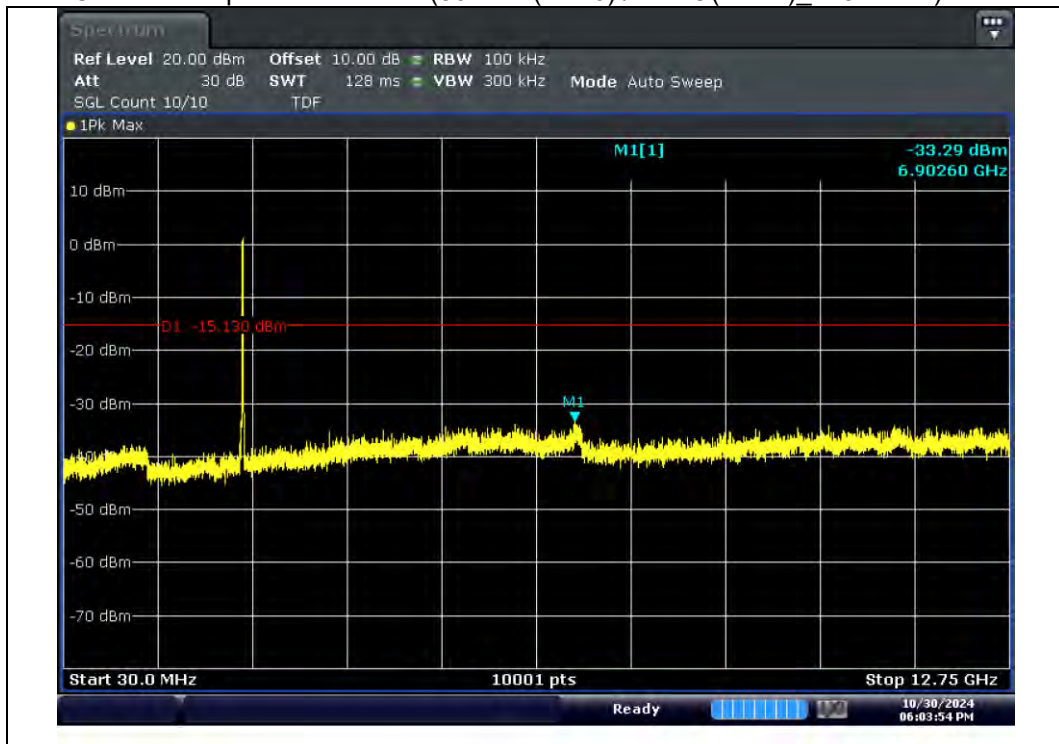
Test mode : Conducted Spurious Emission(802.11n(HT20) / MIMO(ANT1) 2412 MHz)



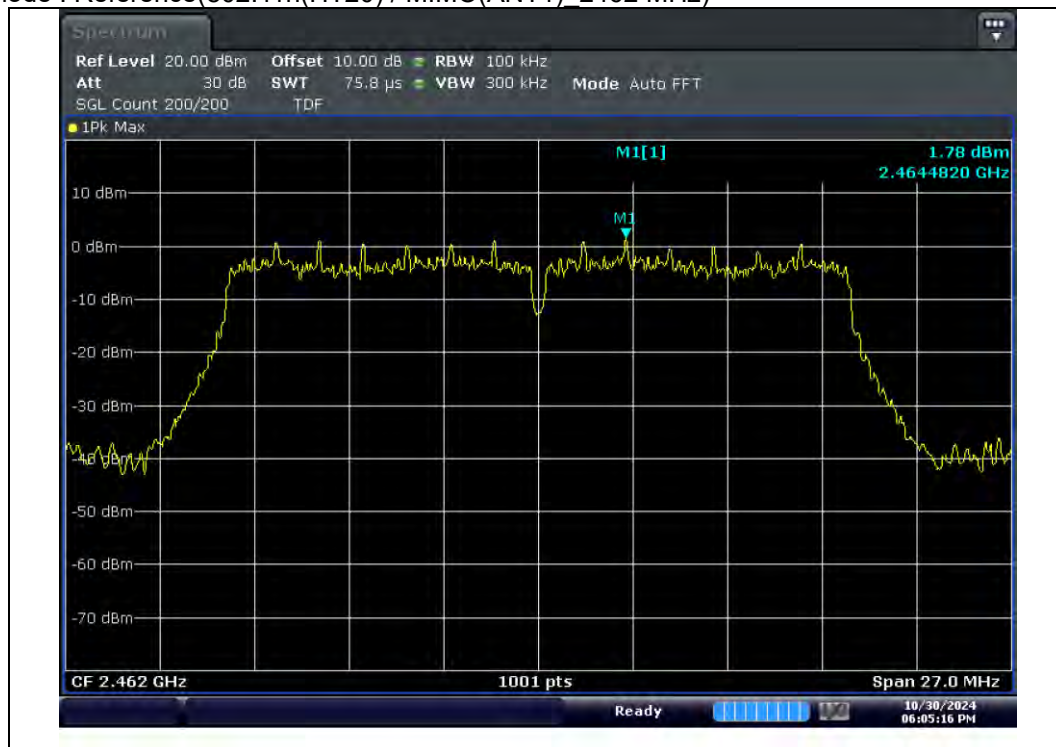
Test mode : Reference(802.11n(HT20) / MIMO(ANT1) _2437 MHz)



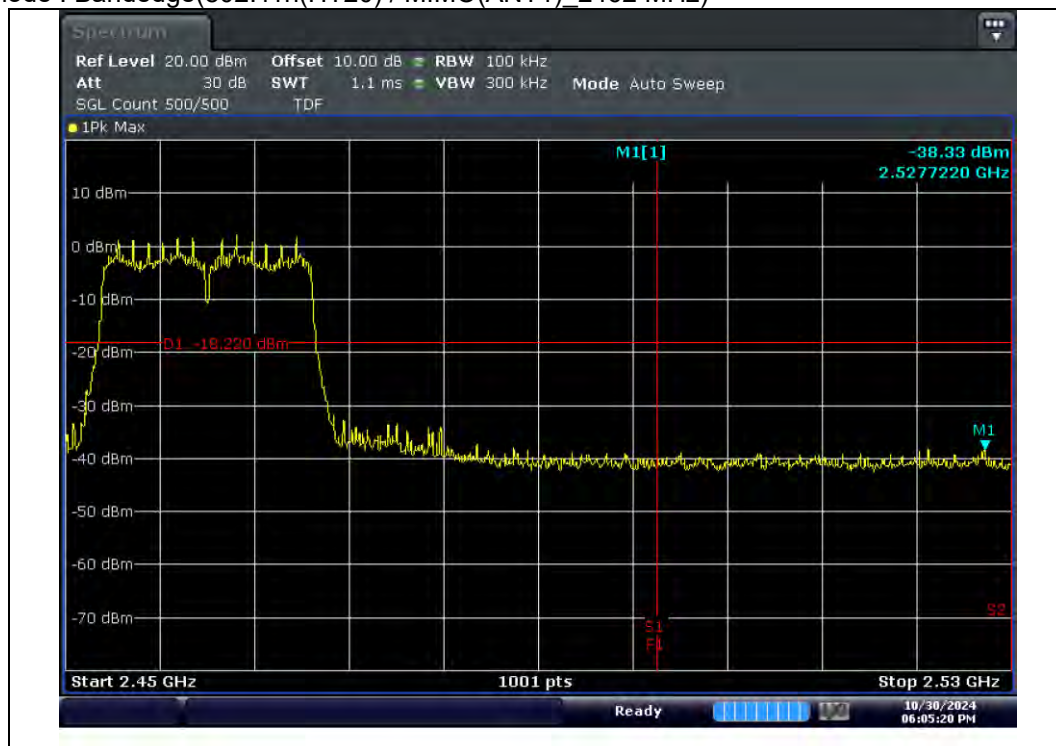
Test mode : Conducted Spurious Emission(802.11n(HT20) / MIMO(ANT1) _2437 MHz)



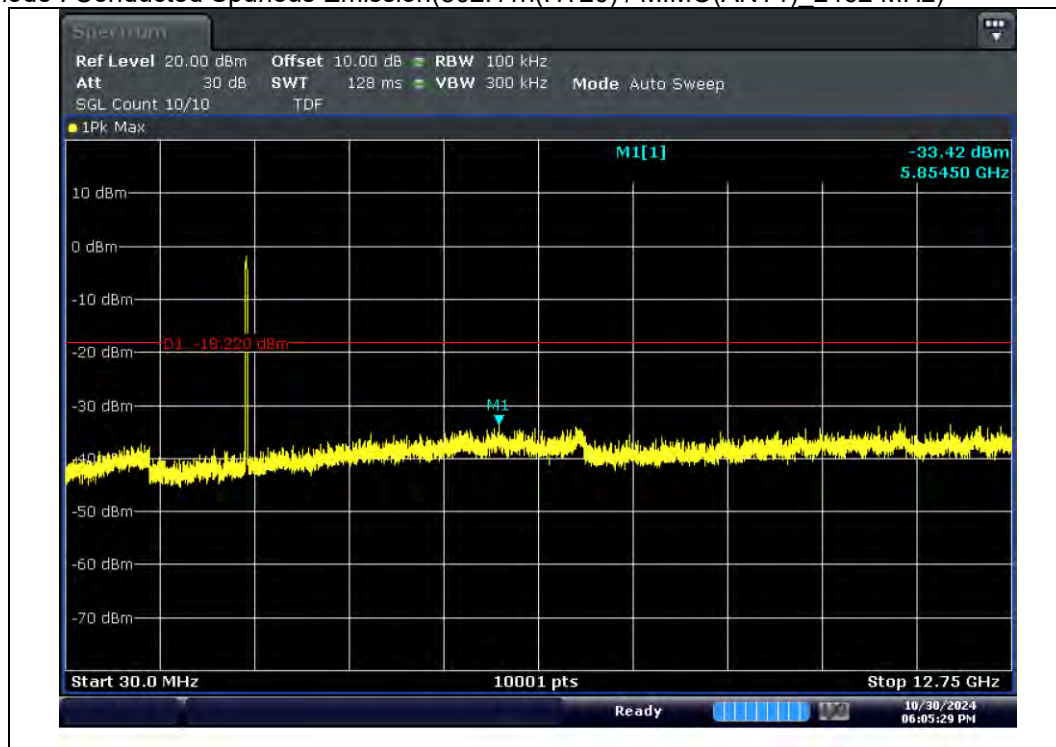
Test mode : Reference(802.11n(HT20) / MIMO(ANT1)_ 2462 MHz)



Test mode : Bandedge(802.11n(HT20) / MIMO(ANT1)_ 2462 MHz)



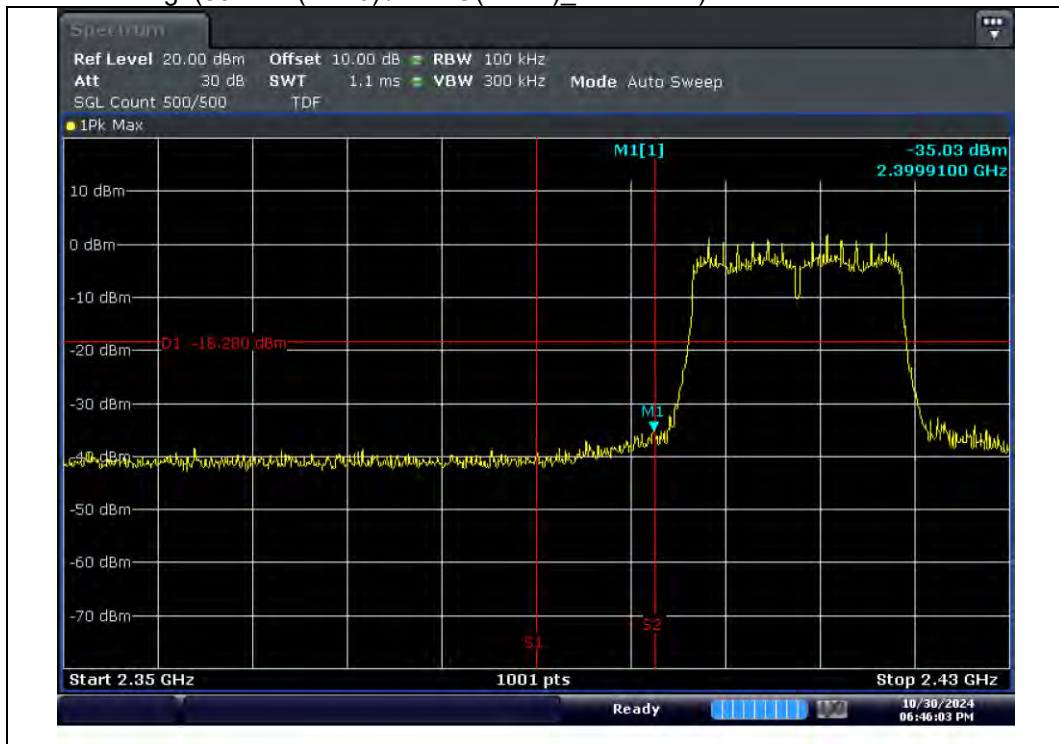
Test mode : Conducted Spurious Emission(802.11n(HT20) / MIMO(ANT1) 2462 MHz)



Test mode : Reference(802.11n(HT20) / MIMO(ANT2)_2412 MHz)



Test mode : Bandedge(802.11n(HT20) / MIMO(ANT2)_2412 MHz)



Test mode : Conducted Spurious Emission(802.11n(HT20) / MIMO(ANT2) 2412 MHz)

