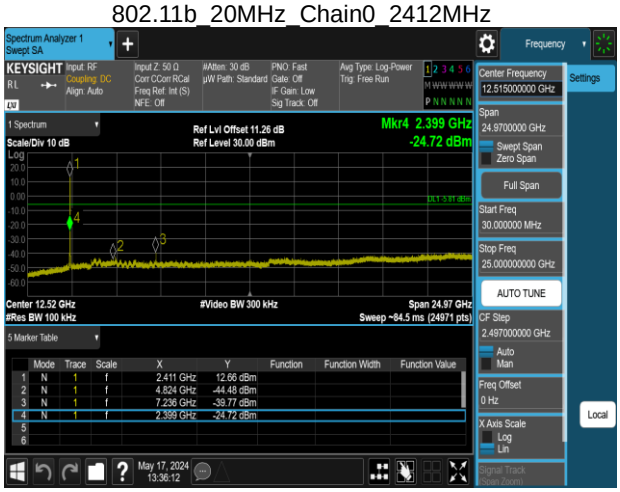
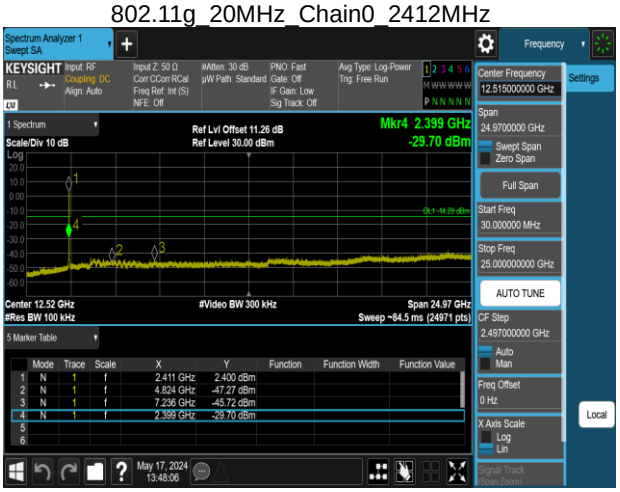
Spurious Emission

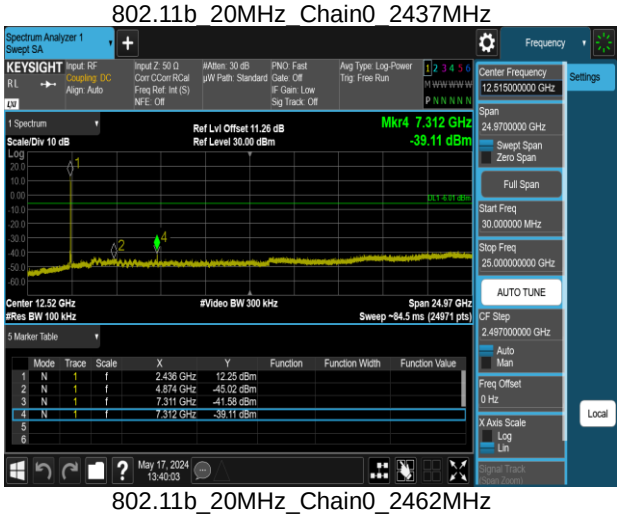
802.11b_20MHz_Chain0_2412MHz



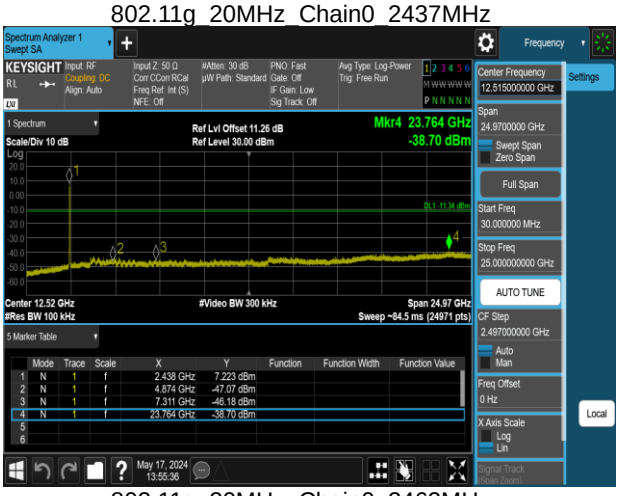
802.11g_20MHz_Chain0_2412MHz



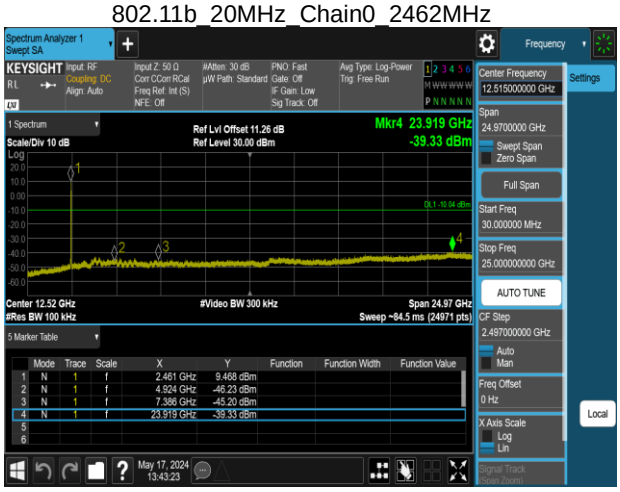
802.11b_20MHz_Chain0_2437MHz



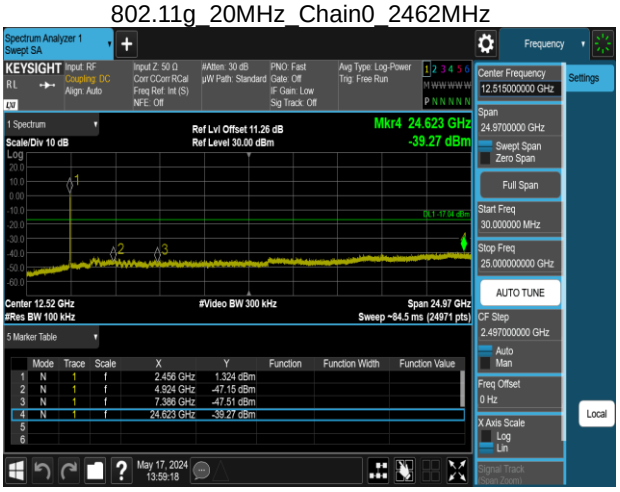
802.11g_20MHz_Chain0_2437MHz



802.11b_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain0_2462MHz



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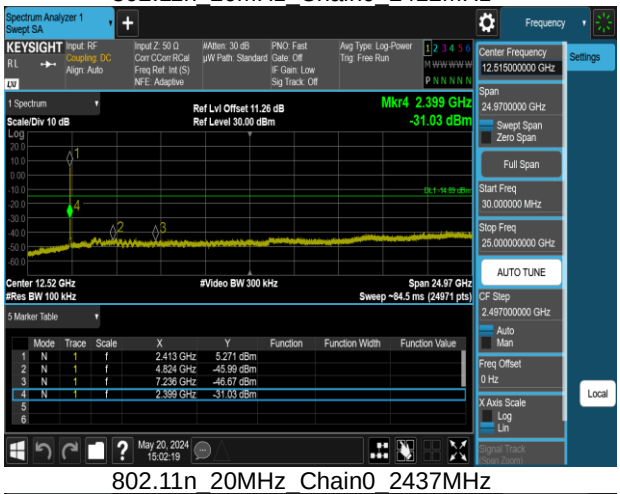
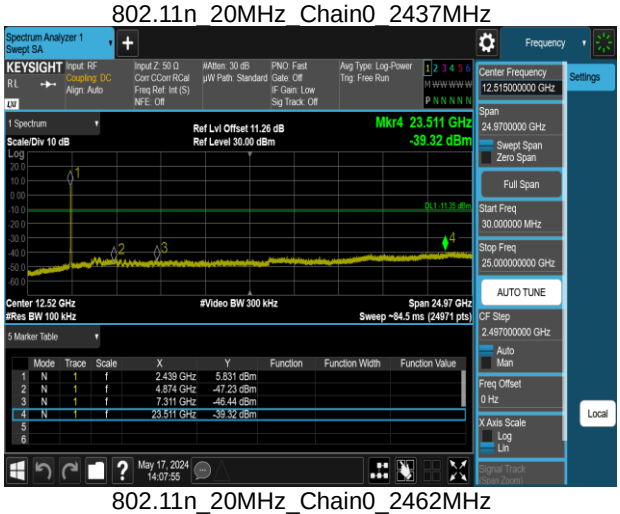
802.11n_20MHz_Chain0_2412MHz



802.11n_20MHz_Chain0_2437MHz



802.11n_20MHz_Chain0_2462MHz

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4.6 RADIATION BANDEDGE AND SPURIOUS EMISSION

4.6.1 Test Limit

FCC according to §15.247(d), §15.209 and §15.205,

In any 100 kHz bandwidth outside the authorized frequency band, all harmonic and spurious must be least 20 dB below the highest emission level with the authorized frequency band. Radiation emission which fall in the restricted bands must also follow the FCC section 15.209 as below limit in table.

Below 30 MHz

Frequency	Field Strength (microvolts/m)	Magnetic H-Field (microamperes/m)	Measurement Distance (metres)
9-490 kHz	2,400/F (F in kHz)	2,400/F (F in kHz)	300
490-1,705 kHz	24,000/F (F in kHz)	24,000/F (F in kHz)	30
1.705-30 MHz	30	N/A	30

Above 30 MHz

Frequency	Field Strength (microvolts/m)	Measurement Distance (metres)
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark:
Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open are test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

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4.6.2 Test Procedure

Test method Refer as ANSI C63.10:2013.

1. The EUT is placed on a turntable, Above 1 GHz is 1.5m and below 1 GHz is 0.8m above ground plane. The EUT Configured un accordance with ANSI C63.10: 2013, and the EUT set in a continuous mode.

2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level. And EUT is set 3m away from the receiving antenna, which is scanned from 1m to 4m above the ground plane to find out the highest emissions. Measurement are made polarized in both the vertical and the horizontal positions with antenna.

3. Span shall wide enough to full capture the emission measured. The SA from 9kHz to 26.5GHz set to the low, Mid and High channels with the EUT transmit.

4. No emission found between lowest internal used/generated frequency to 30MHz (9KHz~30MHz).

Radiated emission below 30MHz is measured in a 9m*6m*6m semi-ane choic chamber, the measurements correspond to those obtained at an open-field test site. There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

5. The SA setting following：

(1) Below 30MHz：

(1.1) 9KHz-490KHz : RBW=200Hz / VBW=1kHz / Sweep=AUTO

(1.2) 490KHz-30MHz : RBW=10kHz / VBW=30kHz / Sweep=AUTO

(2) 30MHz to 1GHz：RBW = 100kHz, VBW ≥ 3*RBW, Sweep = Auto,

Detector = Peak, Trace = Max hold.

(3) Above 1GHz：

(3.1) For Peak measurement：RBW = 1MHz, VBW ≥ 3 RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.

(3.2) For Average measurement：RBW = 1MHz, VBW

˙If Duty Cycle ≥ 98%, VBW=10Hz.

˙If Duty Cycle < 98%, VBW=1/T.

6. Data result：

Actual FS=Spectrum Reading Level + Factor

Margin=Actual FS- Limit

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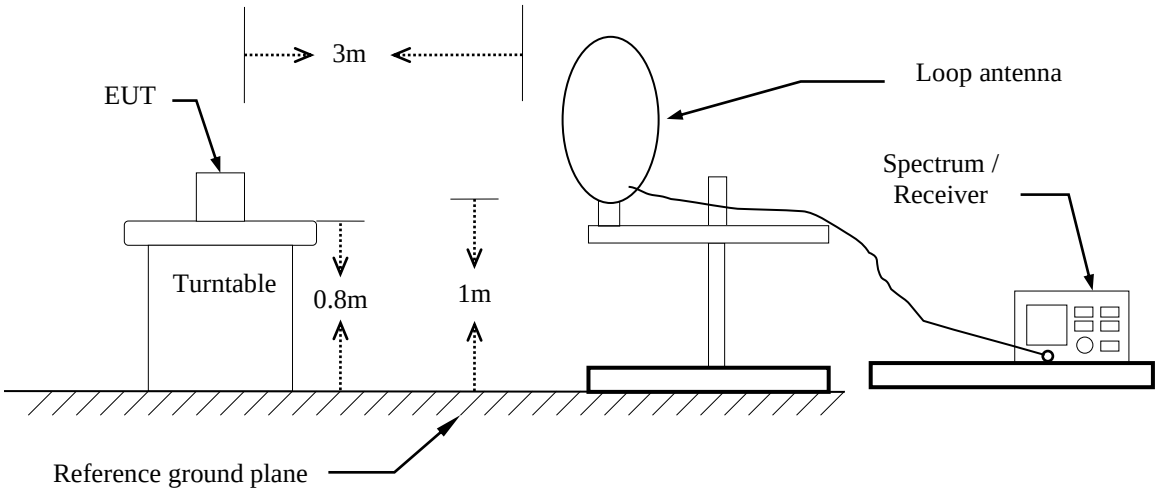
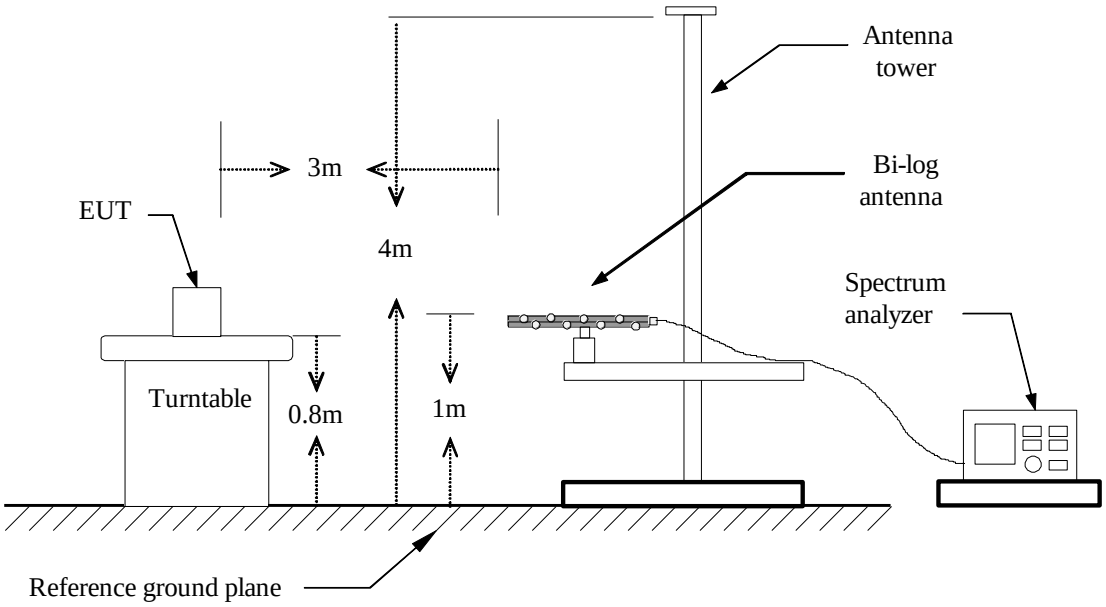
4.6.3 Test Setup

9kHz ~ 30MHz



30MHz ~ 1GHz



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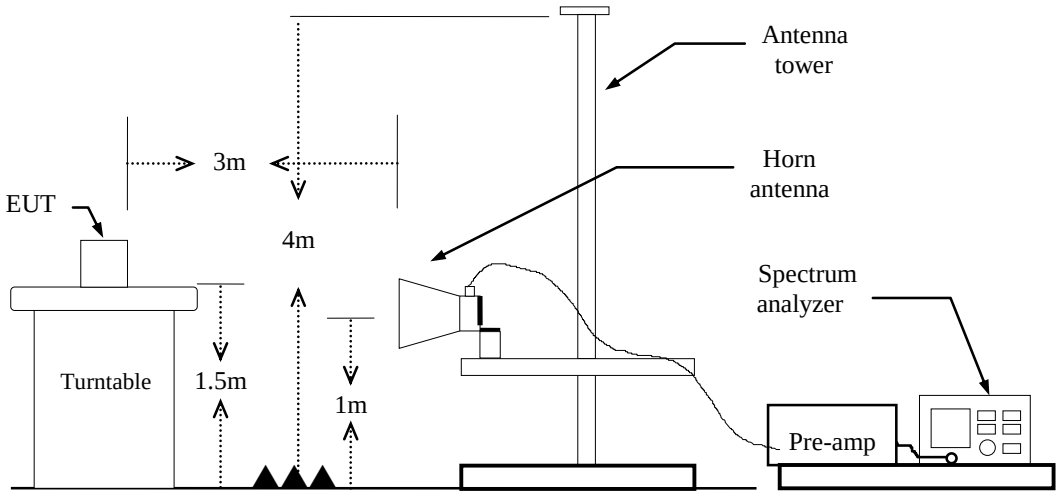
Above 1 GHz



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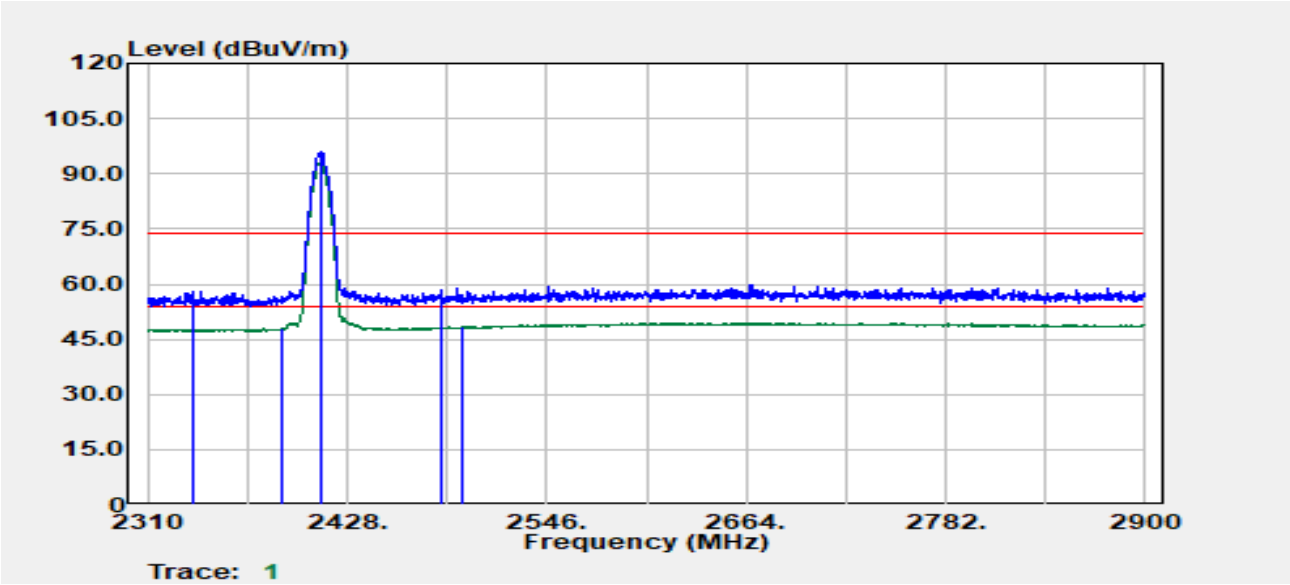
4.6.4 Test Result

Band Edge Test Data

Project No	:TM-2405000018P	Test Date	:2024-05-15
Operation Band	:802.11b	Temp./Humi.	:24.6/57
Frequency	:2412 MHz	Antenna Pol.	:Vertical
Operation Mode	:Bandedge	Engineer	:Tony Chao
EUT Pol	:E2	Test Chamber	: 966A
Setting	:19		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2337.22	Peak	25.89	31.99	57.87	74.00	-16.13
2388.90	Average	15.86	32.09	47.94	54.00	-6.06
2412.00	Peak	64.00	32.13	96.13	- -	- -
2412.00	Average	60.98	32.13	93.11	- -	- -
2483.50	Peak	26.47	32.43	58.90	74.00	-15.10
2495.26	Average	15.95	32.51	48.46	54.00	-5.54

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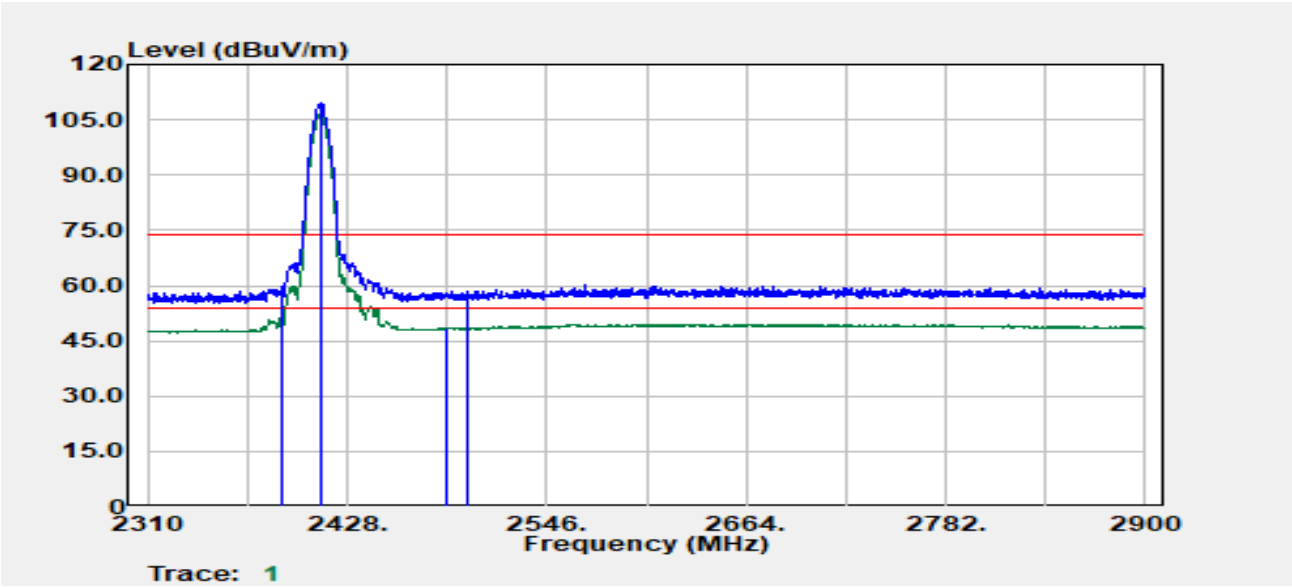
Project No	:TM-2405000018P	Test Date	:2024-05-15
Operation Band	:802.11b	Temp./Humi.	:24.6/57
Frequency	:2412 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Tony Chao
EUT Pol	:E2	Test Chamber	: 966A
Setting	:19		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2388.90	Peak	27.88	32.09	59.96	74.00	-14.04
2389.15	Average	20.27	32.09	52.37	54.00	-1.63
2412.00	Peak	77.44	32.13	109.57	- -	- -
2412.00	Average	74.47	32.13	106.60	- -	- -
2487.52	Average	16.15	32.47	48.62	54.00	-5.38
2499.51	Peak	25.95	32.51	58.46	74.00	-15.54

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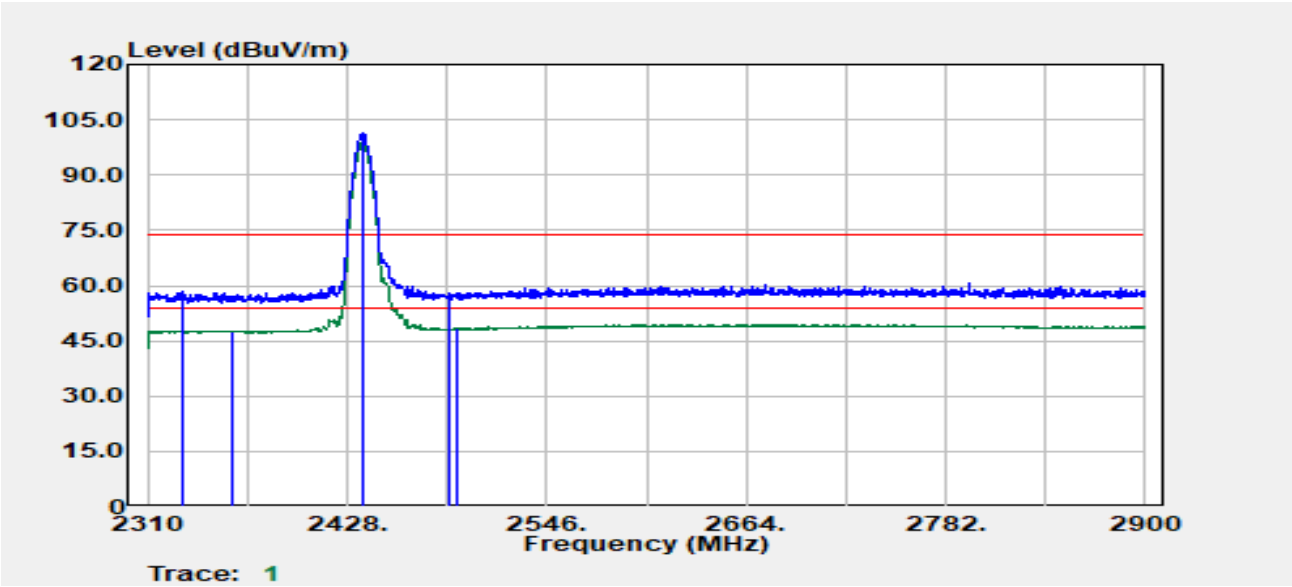
Project No	:TM-2405000018P	Test Date	:2024-05-16
Operation Band	:802.11b	Temp./Humi.	:24.6/57
Frequency	:2437 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Ray Li
EUT Pol	:E2	Test Chamber	: 966A
Setting	:19		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2330.26	Peak	26.21	32.05	58.26	74.00	-15.74
2360.02	Average	15.69	32.08	47.77	54.00	-6.23
2437.00	Peak	69.23	32.18	101.41	- -	- -
2437.00	Average	66.57	32.18	98.75	- -	- -
2489.08	Peak	25.51	32.49	58.00	74.00	-16.00
2492.33	Average	15.99	32.50	48.49	54.00	-5.51

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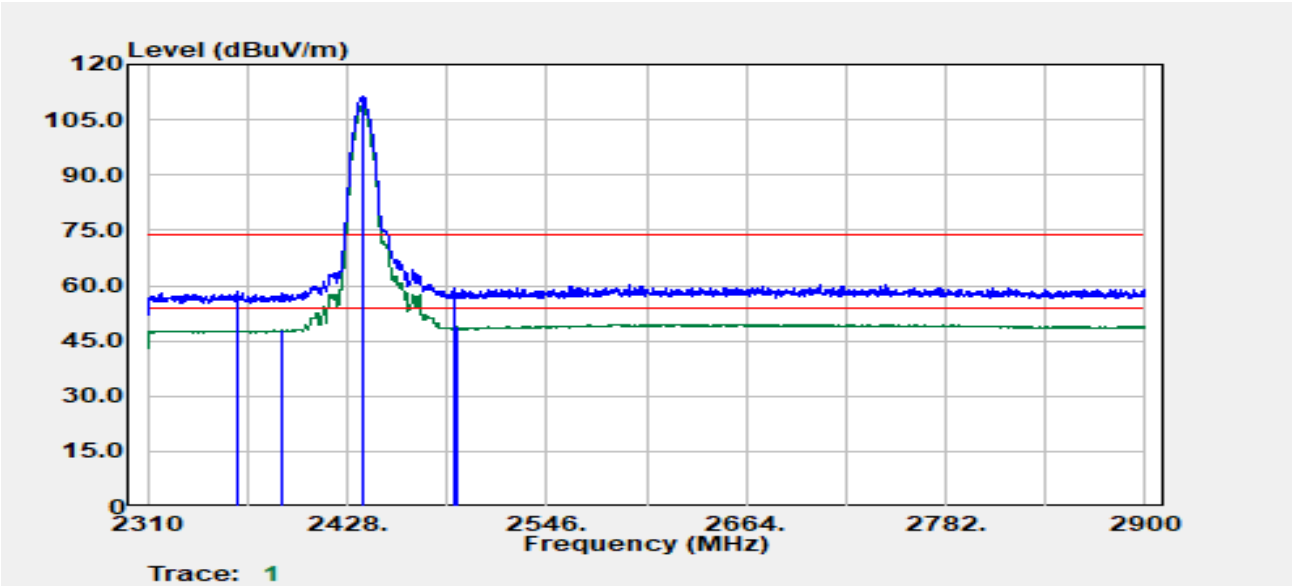
Project No	:TM-2405000018P	Test Date	:2024-05-16
Operation Band	:802.11b	Temp./Humi.	:24.6/57
Frequency	:2437 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Ray Li
EUT Pol	:E2	Test Chamber	: 966A
Setting	:19		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2363.68	Peak	26.48	32.05	58.53	74.00	-15.47
2389.40	Average	15.73	32.10	47.83	54.00	-6.17
2437.00	Peak	79.23	32.18	111.41	- -	- -
2437.00	Average	76.61	32.18	108.79	- -	- -
2490.77	Peak	26.70	32.50	59.20	74.00	-14.80
2493.27	Average	16.20	32.50	48.70	54.00	-5.30

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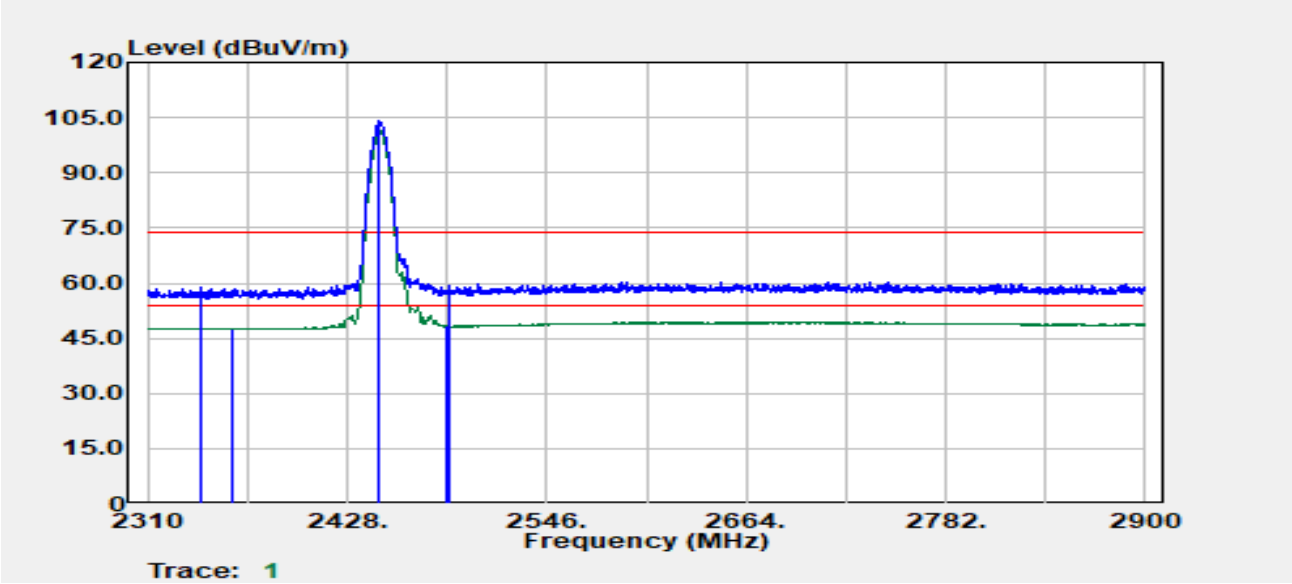
Project No	:TM-2405000018P	Test Date	:2024-05-21
Operation Band	:802.11b	Temp./Humi.	:24.6/57
Frequency	:2447 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Ray Li
EUT Pol	:E2	Test Chamber	: 966A
Setting	:19		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2342.01	Peak	26.67	31.98	58.65	74.00	-15.35
2359.27	Average	15.66	32.08	47.74	54.00	-6.26
2447.00	Peak	71.77	32.16	103.93	- -	- -
2447.00	Average	69.27	32.16	101.43	- -	- -
2486.33	Average	16.05	32.46	48.51	54.00	-5.49
2488.33	Peak	26.84	32.48	59.32	74.00	-14.68

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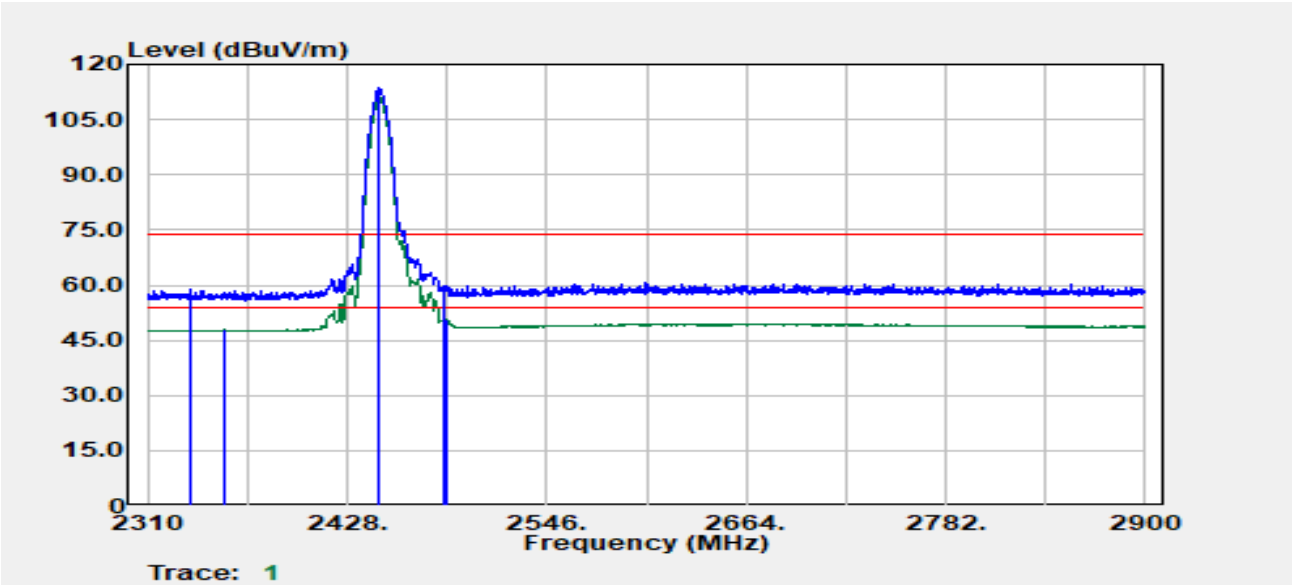
Project No	:TM-2405000018P	Test Date	:2024-05-21
Operation Band	:802.11b	Temp./Humi.	:24.6/57
Frequency	:2447 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Ray Li
EUT Pol	:E2	Test Chamber	: 966A
Setting	:19		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2335.51	Peak	26.78	32.00	58.79	74.00	-15.21
2354.77	Average	15.70	32.07	47.78	54.00	-6.22
2447.00	Peak	81.28	32.16	113.44	- -	- -
2447.00	Average	78.57	32.16	110.73	- -	- -
2485.32	Peak	27.45	32.45	59.90	74.00	-14.10
2486.33	Average	18.13	32.46	50.59	54.00	-3.41

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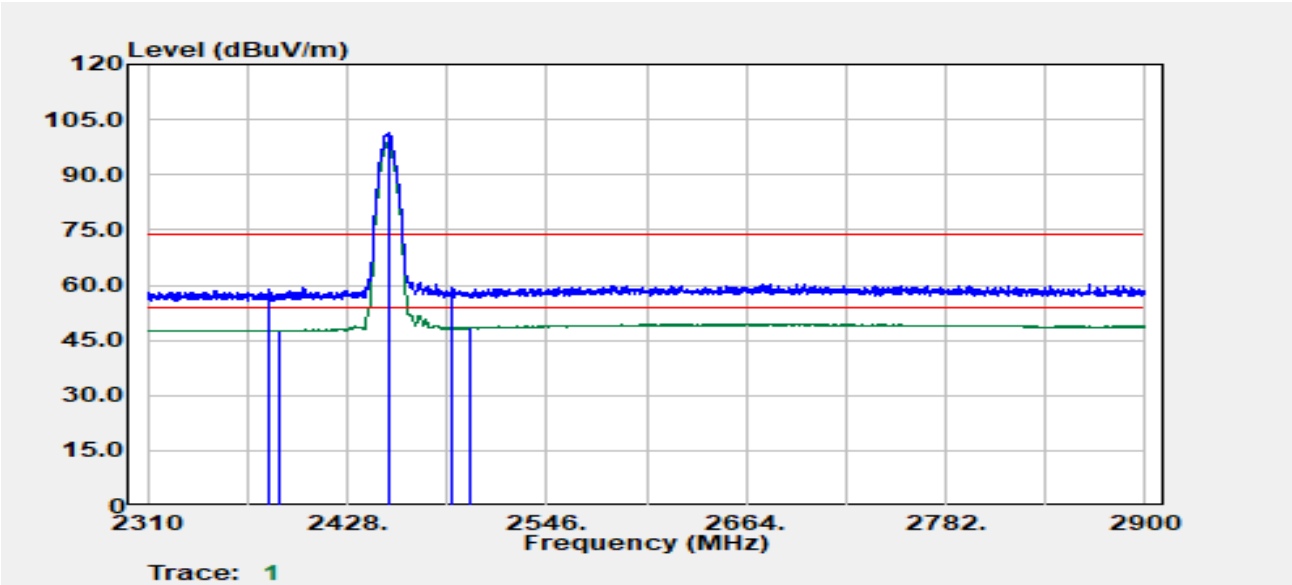
Project No	:TM-2405000018P	Test Date	:2024-05-21
Operation Band	:802.11b	Temp./Humi.	:24.6/57
Frequency	:2452 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Ray Li
EUT Pol	:E2	Test Chamber	: 966A
Setting	:18		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2382.03	Peak	26.83	31.94	58.77	74.00	-15.23
2388.53	Average	15.62	32.08	47.70	54.00	-6.30
2452.00	Peak	69.07	32.15	101.22	- -	- -
2452.00	Average	66.39	32.15	98.53	- -	- -
2490.08	Peak	26.76	32.50	59.26	74.00	-14.74
2500.00	Average	15.80	32.51	48.31	54.00	-5.69

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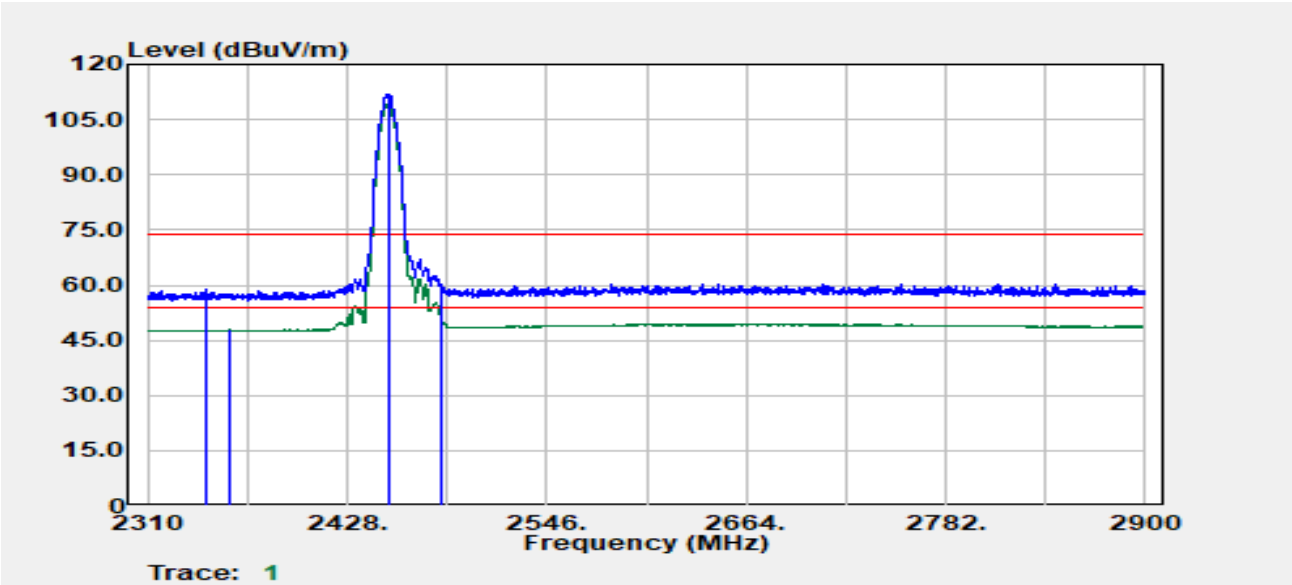
Project No	:TM-2405000018P	Test Date	:2024-05-21
Operation Band	:802.11b	Temp./Humi.	:24.6/57
Frequency	:2452 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Ray Li
EUT Pol	:E2	Test Chamber	: 966A
Setting	:18		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2344.71	Peak	26.85	32.01	58.87	74.00	-15.13
2358.94	Average	15.72	32.08	47.80	54.00	-6.20
2452.00	Peak	79.89	32.15	112.04	- -	- -
2452.00	Average	77.41	32.15	109.55	- -	- -
2483.53	Peak	27.42	32.43	59.85	74.00	-14.15
2483.53	Average	18.56	32.43	50.99	54.00	-3.01

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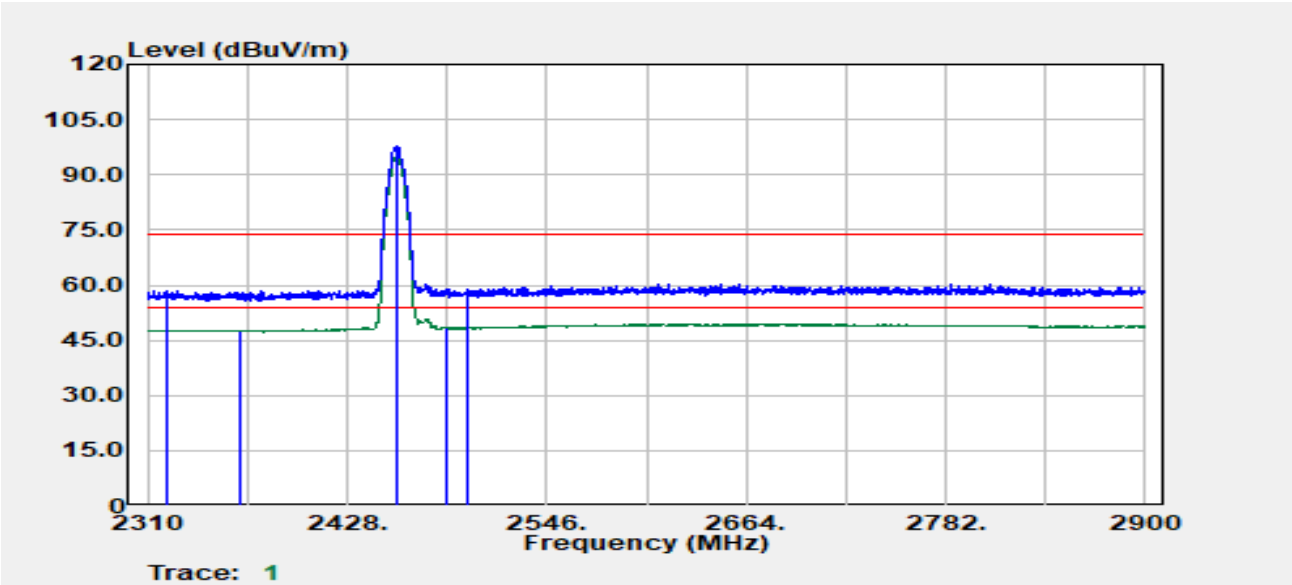
Project No	:TM-2405000018P	Test Date	:2024-05-21
Operation Band	:802.11b	Temp./Humi.	:24.6/57
Frequency	:2457 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Ray Li
EUT Pol	:E2	Test Chamber	: 966A
Setting	:17		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2321.51	Peak	26.49	32.04	58.53	74.00	-15.47
2364.27	Average	15.66	32.04	47.70	54.00	-6.30
2457.00	Peak	65.65	32.10	97.76	- -	- -
2457.00	Average	63.12	32.10	95.22	- -	- -
2487.33	Average	15.93	32.47	48.40	54.00	-5.60
2499.08	Peak	26.40	32.51	58.91	74.00	-15.09

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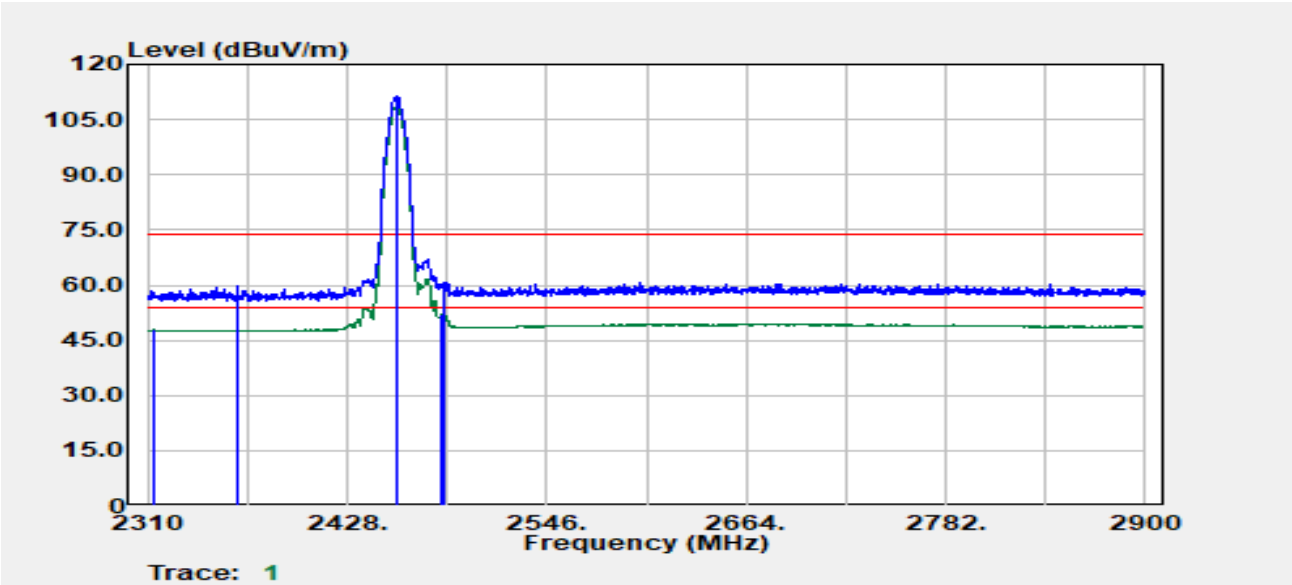
Project No	:TM-2405000018P	Test Date	:2024-05-21
Operation Band	:802.11b	Temp./Humi.	:24.6/57
Frequency	:2457 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Ray Li
EUT Pol	:E2	Test Chamber	: 966A
Setting	:17		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2313.75	Average	15.77	32.03	47.81	54.00	-6.19
2363.02	Peak	27.66	32.05	59.71	74.00	-14.29
2457.00	Peak	79.17	32.10	111.28	- -	- -
2457.00	Average	76.58	32.10	108.68	- -	- -
2483.57	Average	19.56	32.43	51.99	54.00	-2.01
2484.82	Peak	28.44	32.44	60.88	74.00	-13.12

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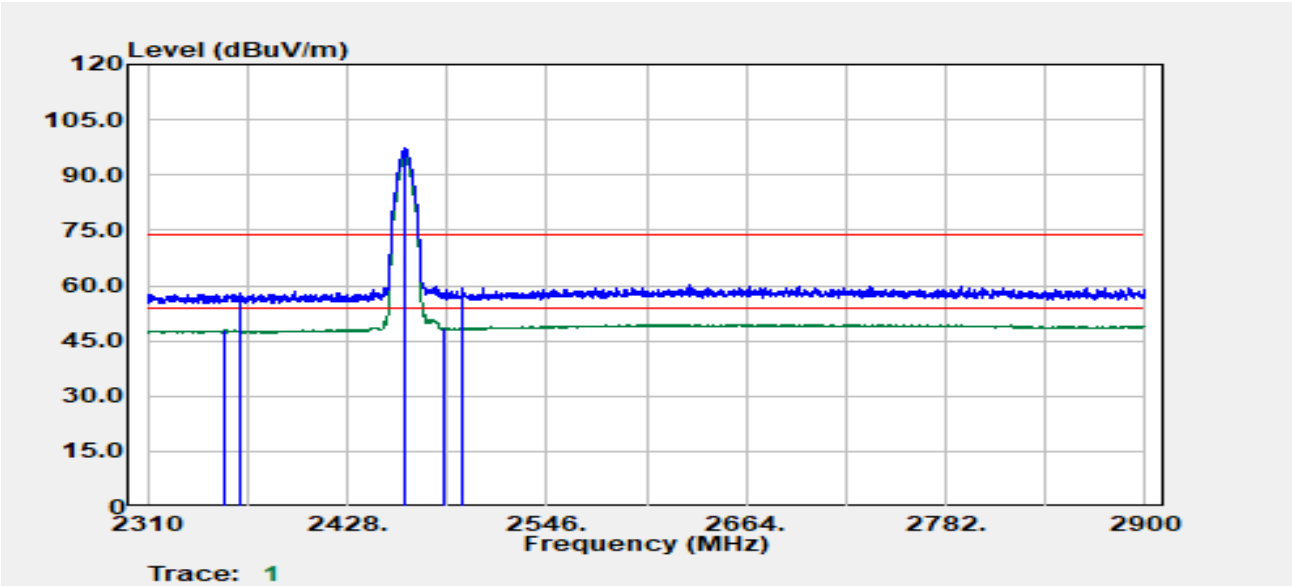
Project No	:TM-2405000018P	Test Date	:2024-05-15
Operation Band	:802.11b	Temp./Humi.	:24.6/57
Frequency	:2462 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Tony Chao
EUT Pol	:E2	Test Chamber	: 966A
Setting	:16		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2355.19	Average	15.81	32.08	47.88	54.00	-6.12
2364.68	Peak	26.14	32.04	58.18	74.00	-15.82
2462.00	Peak	65.22	32.10	97.32	- -	- -
2462.00	Average	62.61	32.10	94.70	- -	- -
2484.78	Average	15.96	32.44	48.41	54.00	-5.59
2496.76	Peak	26.78	32.51	59.29	74.00	-14.71

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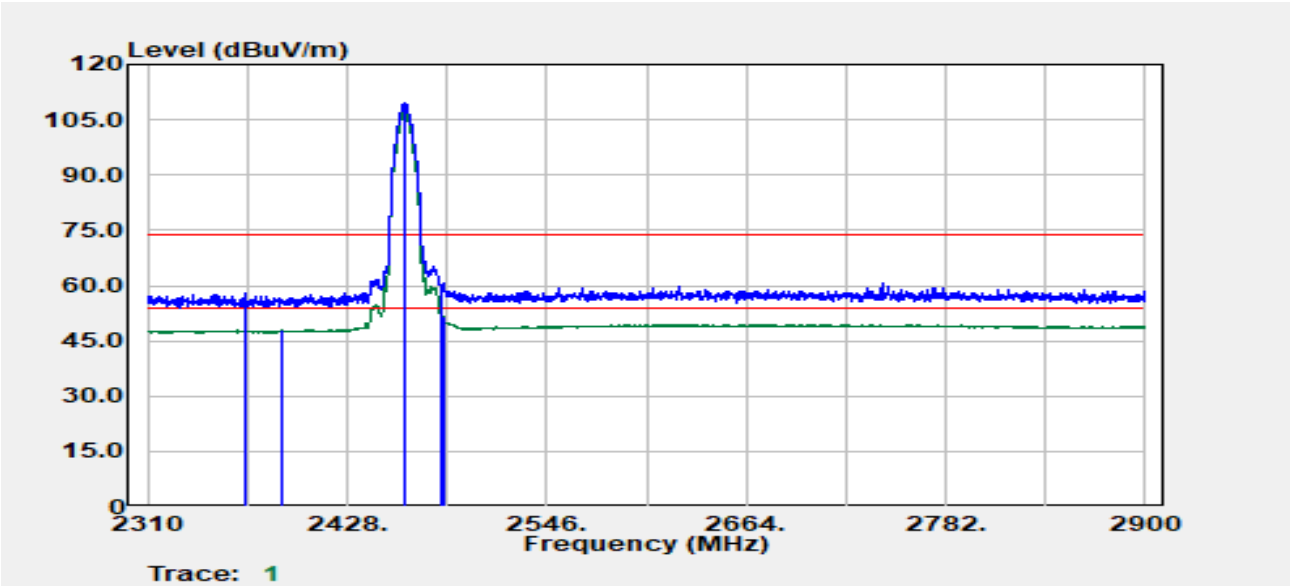
Project No	:TM-2405000018P	Test Date	:2024-05-15
Operation Band	:802.11b	Temp./Humi.	:24.6/57
Frequency	:2462 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Tony Chao
EUT Pol	:E2	Test Chamber	: 966A
Setting	:16		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2367.43	Peak	25.93	32.01	57.95	74.00	-16.05
2389.15	Average	15.75	32.09	47.84	54.00	-6.16
2462.00	Peak	77.45	32.10	109.55	- -	- -
2462.00	Average	74.60	32.10	106.70	- -	- -
2483.50	Peak	28.11	32.43	60.54	74.00	-13.46
2484.78	Average	19.35	32.44	51.79	54.00	-2.21

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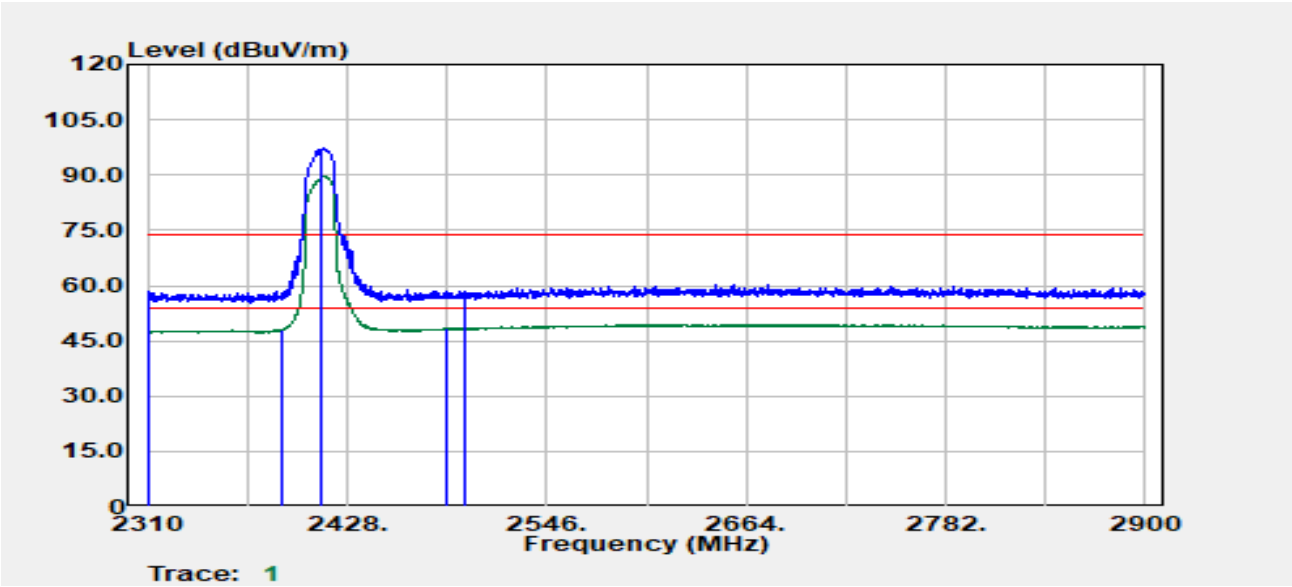
Project No	:TM-2405000018P	Test Date	:2024-05-15
Operation Band	:802.11g	Temp./Humi.	:24.6/57
Frequency	:2412 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Ray Li
EUT Pol	:E2	Test Chamber	: 966A
Setting	:15		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2310.75	Peak	26.54	32.03	58.57	74.00	-15.43
2389.53	Average	16.00	32.10	48.10	54.00	-5.90
2412.00	Peak	65.14	32.13	97.27	- -	- -
2412.00	Average	57.57	32.13	89.70	- -	- -
2487.33	Average	15.88	32.47	48.35	54.00	-5.65
2498.08	Peak	26.02	32.51	58.53	74.00	-15.47

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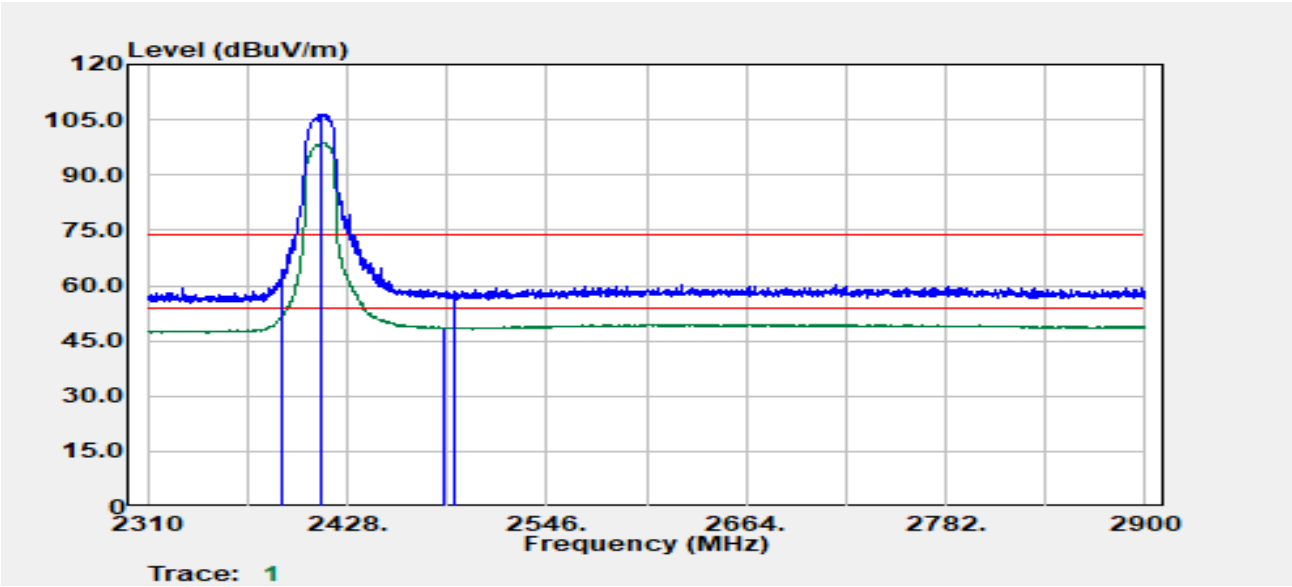
Project No	:TM-2405000018P	Test Date	:2024-05-15
Operation Band	:802.11g	Temp./Humi.	:24.6/57
Frequency	:2412 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Ray Li
EUT Pol	:E2	Test Chamber	: 966A
Setting	:15		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2389.90	Peak	32.21	32.11	64.32	74.00	-9.68
2389.90	Average	20.01	32.11	52.12	54.00	-1.88
2412.00	Peak	74.49	32.13	106.62	- -	- -
2412.00	Average	66.62	32.13	98.75	- -	- -
2485.78	Average	16.21	32.45	48.66	54.00	-5.34
2492.02	Peak	26.04	32.50	58.54	74.00	-15.46

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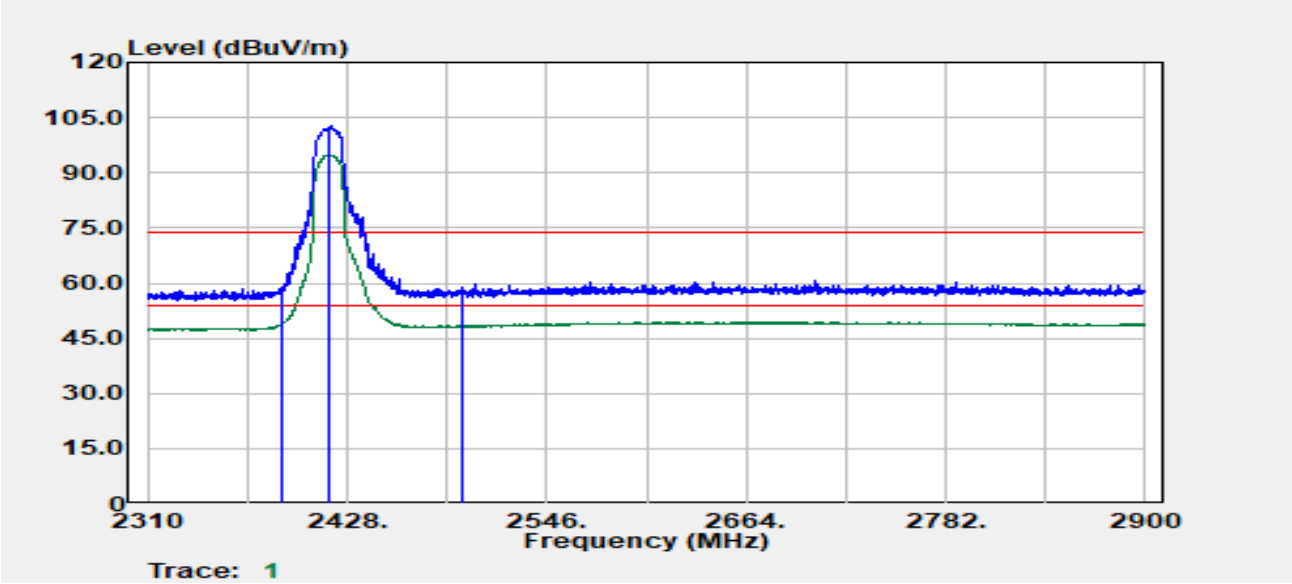
Project No	:TM-2405000018P	Test Date	:2024-05-21
Operation Band	:802.11g	Temp./Humi.	:24.6/57
Frequency	:2417 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Tony Chao
EUT Pol	:E2	Test Chamber	: 966A
Setting	:18		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2389.40	Peak	26.55	32.10	58.64	74.00	-15.36
2389.90	Average	16.90	32.11	49.01	54.00	-4.99
2417.00	Peak	70.49	32.14	102.63	- -	- -
2417.00	Average	62.70	32.14	94.83	- -	- -
2495.76	Average	15.91	32.51	48.42	54.00	-5.58
2496.51	Peak	26.38	32.51	58.89	74.00	-15.11

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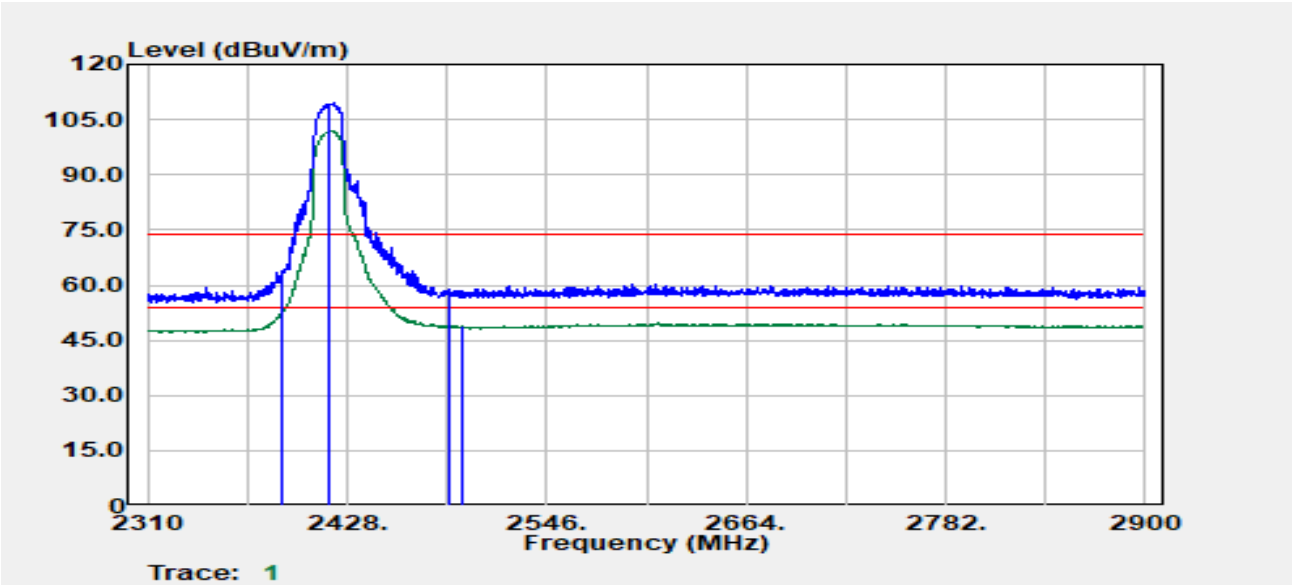
Project No	:TM-2405000018P	Test Date	:2024-05-21
Operation Band	:802.11g	Temp./Humi.	:24.6/57
Frequency	:2417 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Tony Chao
EUT Pol	:E2	Test Chamber	: 966A
Setting	:18		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2389.40	Peak	31.62	32.10	63.72	74.00	-10.28
2389.90	Average	20.94	32.11	53.05	54.00	-0.95
2417.00	Peak	77.50	32.14	109.64	- -	- -
2417.00	Average	69.67	32.14	101.81	- -	- -
2488.77	Peak	26.56	32.49	59.05	74.00	-14.95
2496.26	Average	16.30	32.51	48.80	54.00	-5.20

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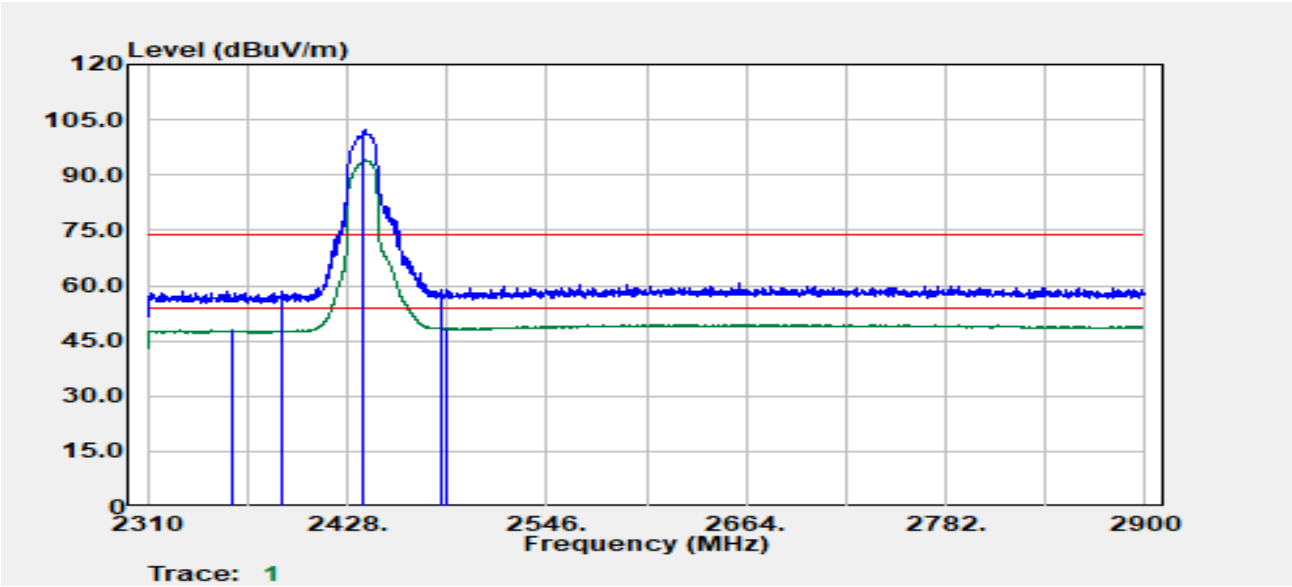
Project No	:TM-2405000018P	Test Date	:2024-05-16
Operation Band	:802.11g	Temp./Humi.	:24.6/57
Frequency	:2437 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Ray Li
EUT Pol	:E2	Test Chamber	: 966A
Setting	:18		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2359.77	Average	15.73	32.08	47.81	54.00	-6.19
2389.28	Peak	26.46	32.09	58.56	74.00	-15.44
2437.00	Peak	70.07	32.18	102.25	- -	- -
2437.00	Average	61.78	32.18	93.96	- -	- -
2483.82	Peak	26.48	32.43	58.91	74.00	-15.09
2486.08	Average	15.95	32.46	48.41	54.00	-5.59

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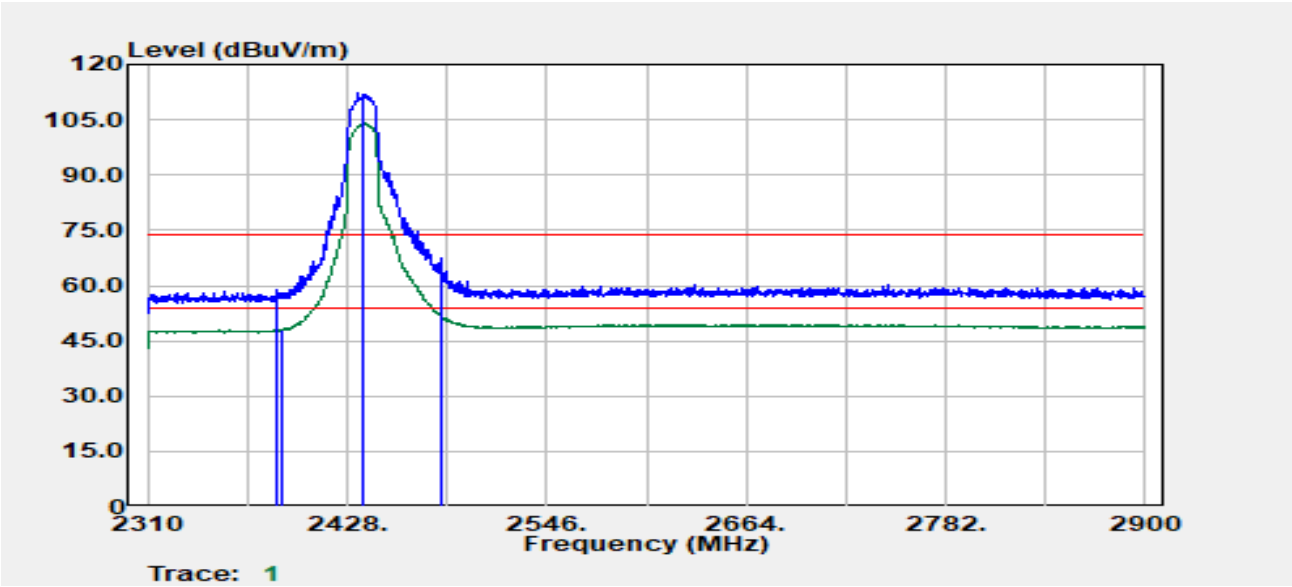
Project No	:TM-2405000018P	Test Date	:2024-05-16
Operation Band	:802.11g	Temp./Humi.	:24.6/57
Frequency	:2437 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Ray Li
EUT Pol	:E2	Test Chamber	: 966A
Setting	:18		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2386.90	Peak	26.98	32.04	59.03	74.00	-14.97
2389.65	Average	15.98	32.10	48.08	54.00	-5.92
2437.00	Peak	80.24	32.18	112.42	- -	- -
2437.00	Average	71.79	32.18	103.97	- -	- -
2483.53	Peak	32.23	32.43	64.66	74.00	-9.34
2484.03	Average	19.19	32.44	51.62	54.00	-2.38

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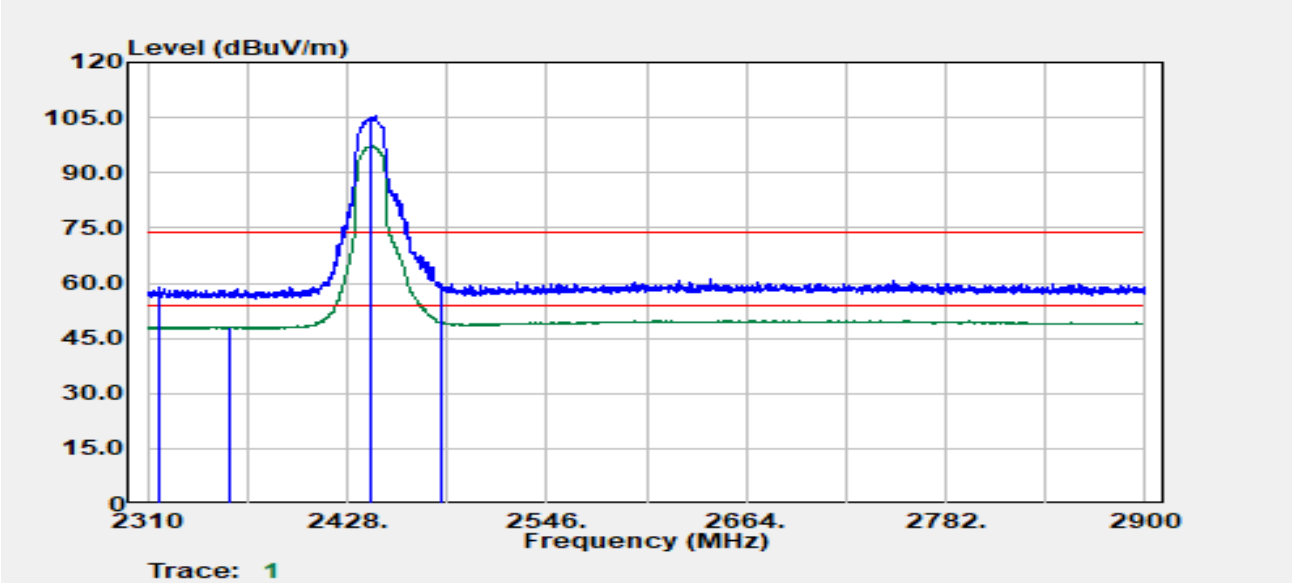
Project No	:TM-2405000018P	Test Date	:2024-05-21
Operation Band	:802.11g	Temp./Humi.	:24.6/57
Frequency	:2442 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Ray Li
EUT Pol	:E2	Test Chamber	: 966A
Setting	:17		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2317.50	Peak	26.73	32.04	58.77	74.00	-15.23
2359.02	Average	16.06	32.08	48.14	54.00	-5.86
2442.00	Peak	73.50	32.16	105.66	- -	- -
2442.00	Average	64.98	32.16	97.14	- -	- -
2484.07	Peak	27.25	32.44	59.69	74.00	-14.31
2484.32	Average	16.77	32.44	49.20	54.00	-4.80

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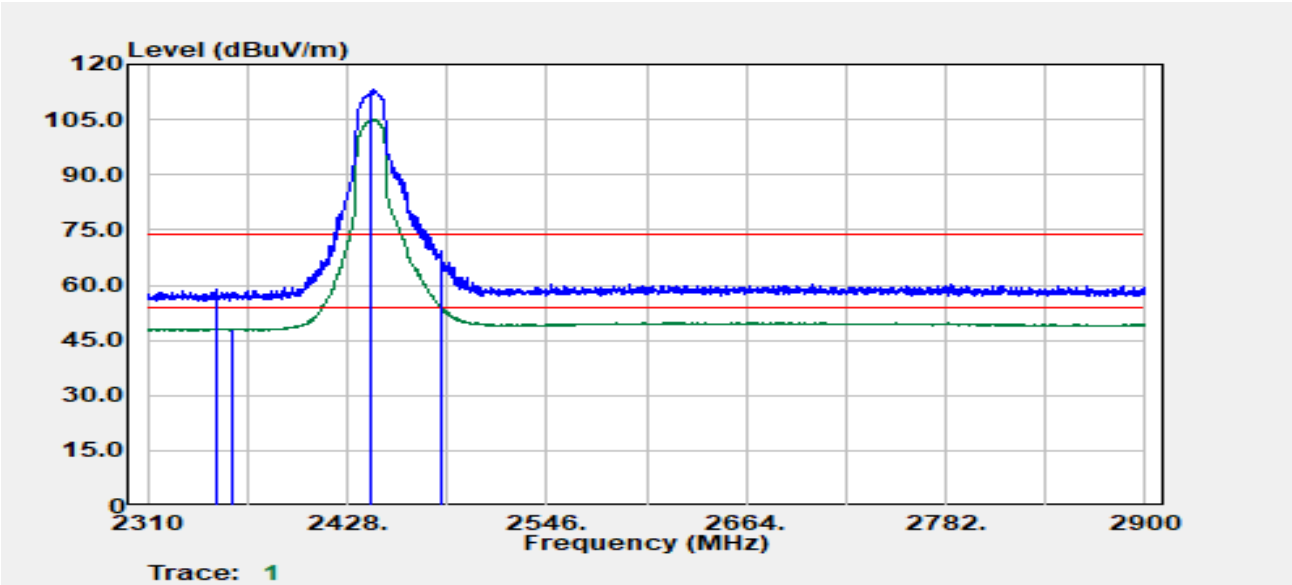
Project No	:TM-2405000018P	Test Date	:2024-05-21
Operation Band	:802.11g	Temp./Humi.	:24.6/57
Frequency	:2442 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Ray Li
EUT Pol	:E2	Test Chamber	: 966A
Setting	:17		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2350.02	Peak	26.94	32.07	59.01	74.00	-14.99
2360.52	Average	16.09	32.08	48.17	54.00	-5.83
2442.00	Peak	80.85	32.16	113.01	- -	- -
2442.00	Average	72.92	32.16	105.08	- -	- -
2483.82	Peak	36.96	32.43	69.39	74.00	-4.61
2483.82	Average	21.26	32.43	53.69	54.00	-0.31

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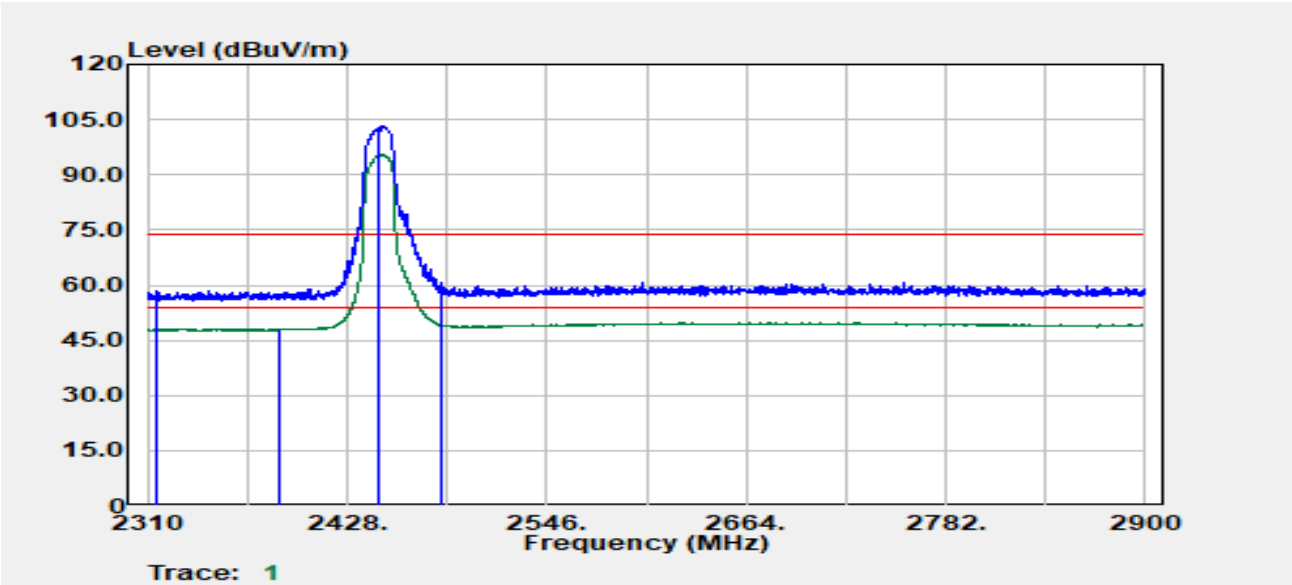
Project No	:TM-2405000018P	Test Date	:2024-05-21
Operation Band	:802.11g	Temp./Humi.	:24.6/57
Frequency	:2447 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Ray Li
EUT Pol	:E2	Test Chamber	: 966A
Setting	:16		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2315.25	Peak	26.38	32.04	58.41	74.00	-15.59
2388.53	Average	16.10	32.08	48.18	54.00	-5.82
2447.00	Peak	71.13	32.16	103.29	- -	- -
2447.00	Average	63.48	32.16	95.64	- -	- -
2483.57	Peak	28.22	32.43	60.65	74.00	-13.35
2483.82	Average	16.68	32.43	49.11	54.00	-4.89

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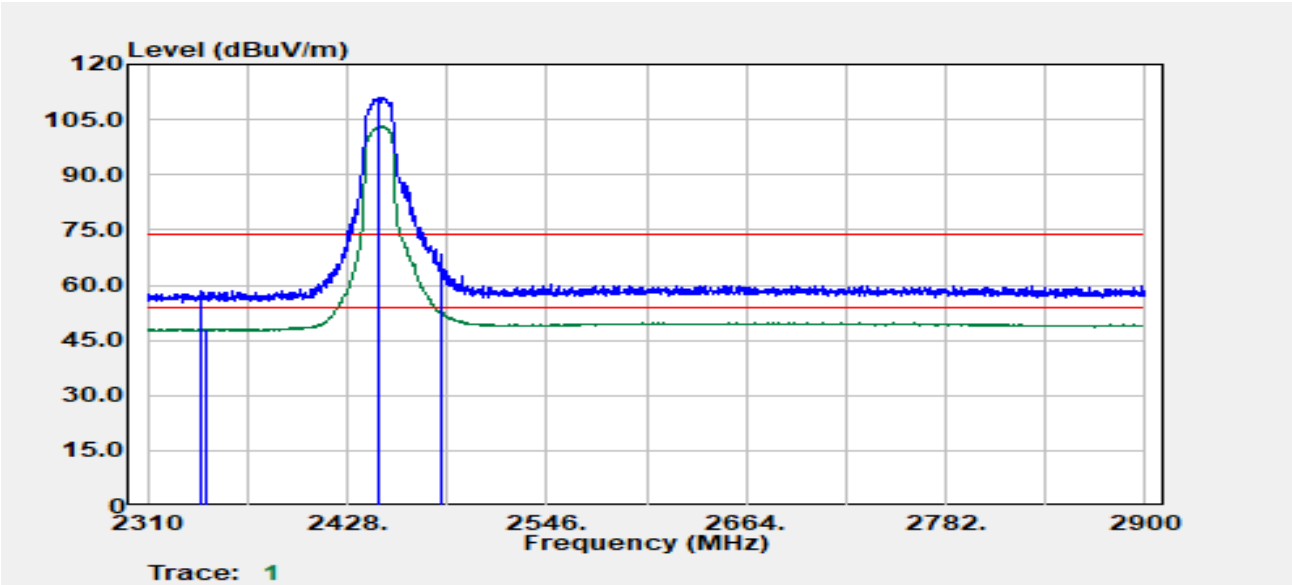
Project No	:TM-2405000018P	Test Date	:2024-05-21
Operation Band	:802.11g	Temp./Humi.	:24.6/57
Frequency	:2447 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Ray Li
EUT Pol	:E2	Test Chamber	: 966A
Setting	:16		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2340.96	Peak	26.60	31.97	58.57	74.00	-15.43
2344.71	Average	16.13	32.01	48.15	54.00	-5.85
2447.00	Peak	78.84	32.16	111.00	- -	- -
2447.00	Average	71.24	32.16	103.41	- -	- -
2483.53	Average	19.99	32.43	52.42	54.00	-1.58
2483.78	Peak	32.56	32.43	65.00	74.00	-9.00

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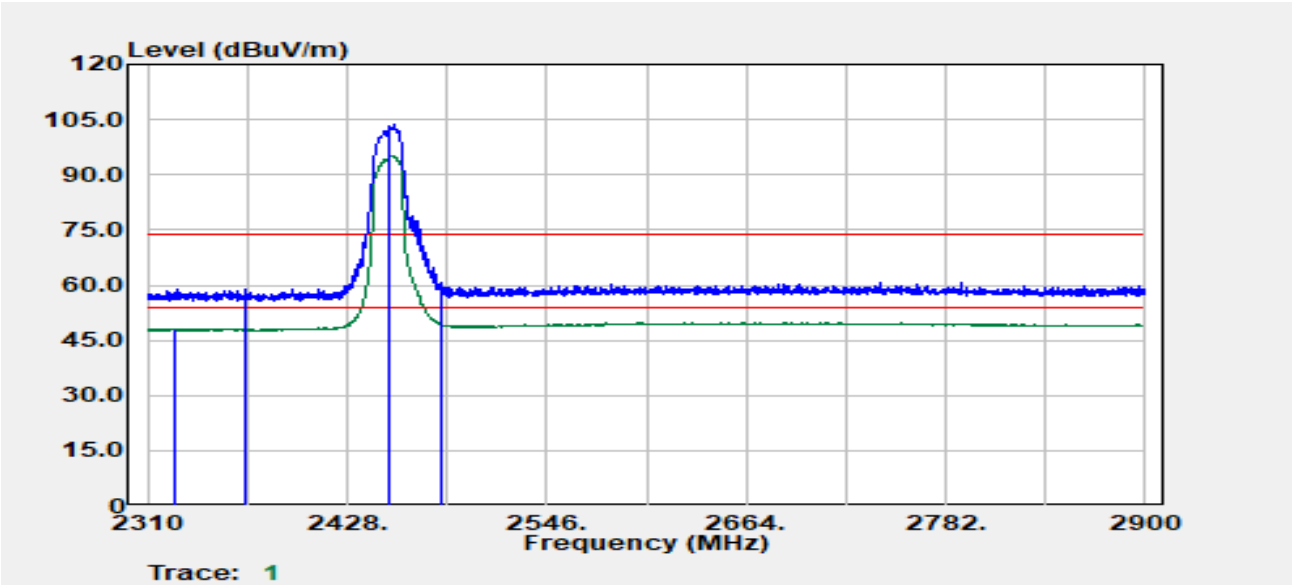
Project No	:TM-2405000018P	Test Date	:2024-05-21
Operation Band	:802.11g	Temp./Humi.	:24.6/57
Frequency	:2452 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Ray Li
EUT Pol	:E2	Test Chamber	: 966A
Setting	:15		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2325.51	Average	16.09	32.05	48.14	54.00	-5.86
2367.77	Peak	26.95	32.01	58.96	74.00	-15.04
2452.00	Peak	71.50	32.15	103.64	- -	- -
2452.00	Average	63.08	32.15	95.22	- -	- -
2483.57	Average	16.70	32.43	49.13	54.00	-4.87
2484.32	Peak	27.22	32.44	59.66	74.00	-14.34

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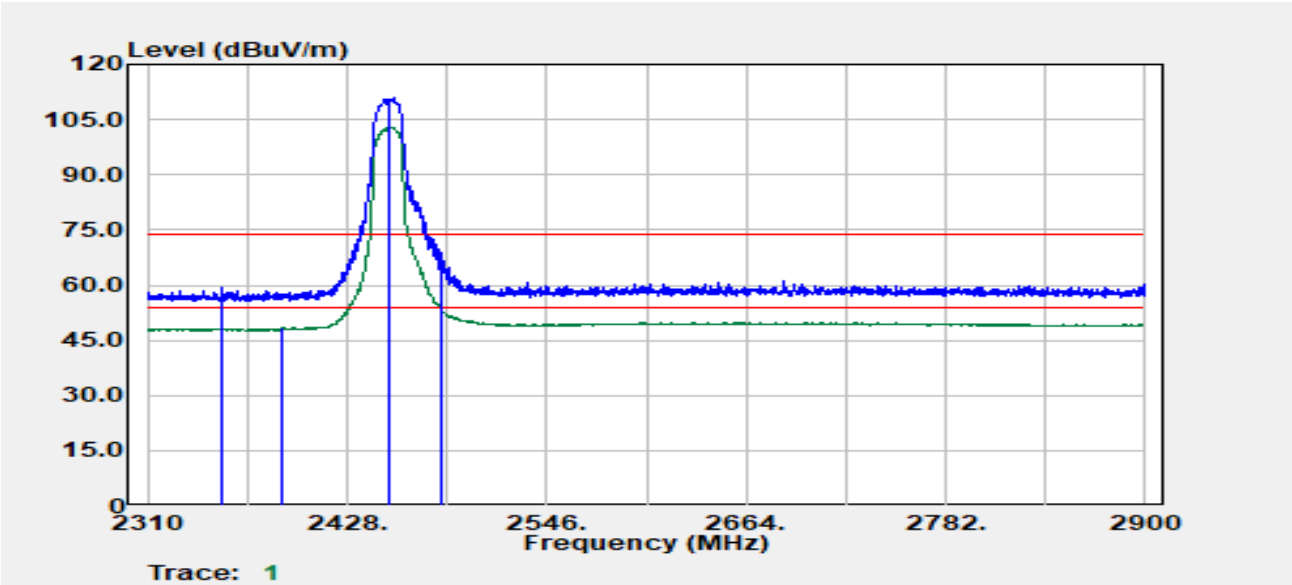
Project No	:TM-2405000018P	Test Date	:2024-05-21
Operation Band	:802.11g	Temp./Humi.	:24.6/57
Frequency	:2452 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Ray Li
EUT Pol	:E2	Test Chamber	: 966A
Setting	:15		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2353.94	Peak	27.30	32.07	59.37	74.00	-14.63
2388.65	Average	16.16	32.08	48.24	54.00	-5.76
2452.00	Peak	78.98	32.15	111.13	- -	- -
2452.00	Average	70.72	32.15	102.87	- -	- -
2483.53	Peak	36.38	32.43	68.81	74.00	-5.19
2483.53	Average	20.63	32.43	53.06	54.00	-0.94

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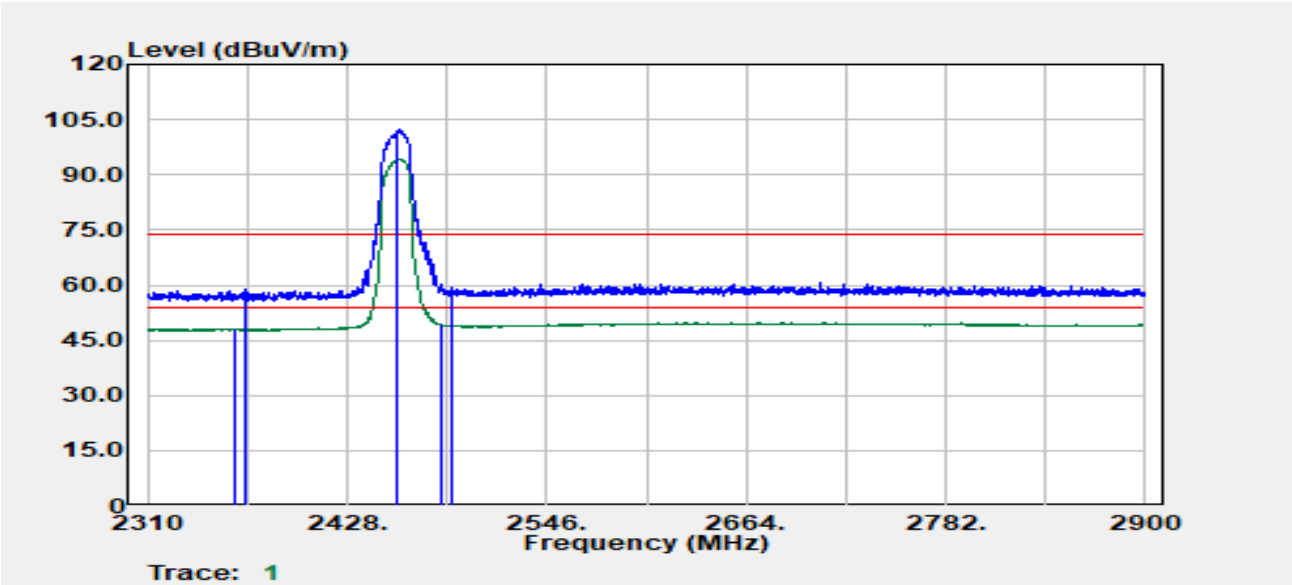
Project No	:TM-2405000018P	Test Date	:2024-05-21
Operation Band	:802.11g	Temp./Humi.	:24.6/57
Frequency	:2457 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Ray Li
EUT Pol	:E2	Test Chamber	: 966A
Setting	:13		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2361.52	Average	16.08	32.07	48.14	54.00	-5.86
2367.27	Peak	26.69	32.01	58.71	74.00	-15.29
2457.00	Peak	70.31	32.10	102.42	- -	- -
2457.00	Average	62.06	32.10	94.16	- -	- -
2484.07	Average	16.70	32.44	49.14	54.00	-4.86
2490.58	Peak	26.83	32.50	59.33	74.00	-14.67

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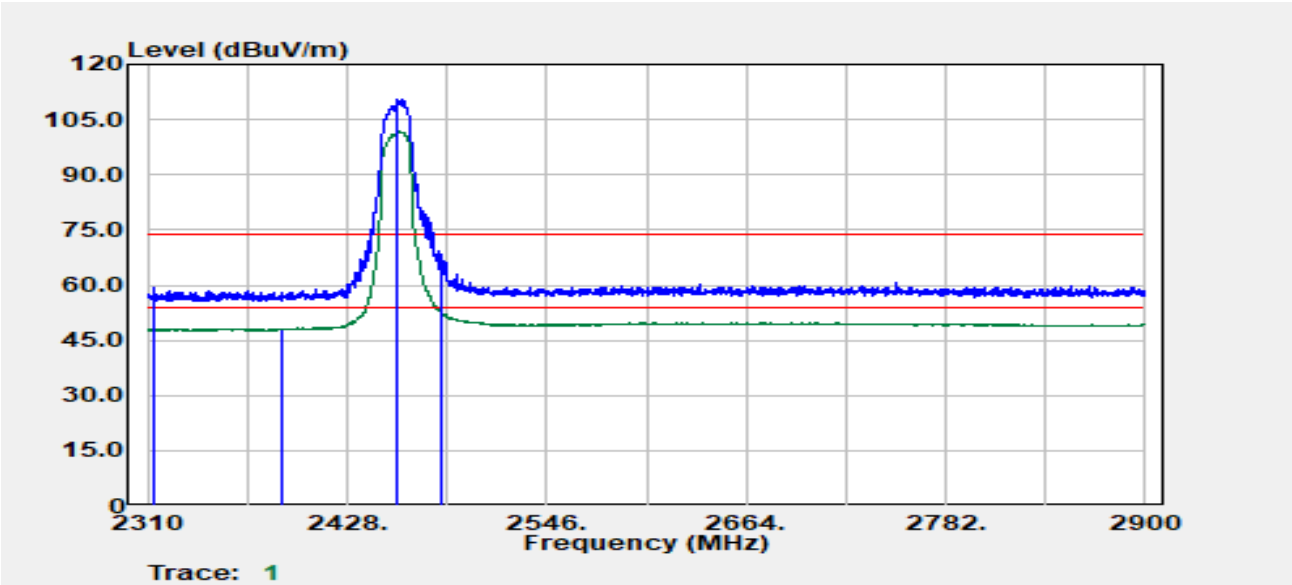
Project No	:TM-2405000018P	Test Date	:2024-05-21
Operation Band	:802.11g	Temp./Humi.	:24.6/57
Frequency	:2457 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Ray Li
EUT Pol	:E2	Test Chamber	: 966A
Setting	:13		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2314.25	Peak	27.17	32.03	59.20	74.00	-14.80
2389.65	Average	16.00	32.10	48.11	54.00	-5.89
2457.00	Peak	78.18	32.10	110.28	- -	- -
2457.00	Average	69.62	32.10	101.72	- -	- -
2483.53	Peak	35.84	32.43	68.28	74.00	-5.72
2483.78	Average	20.39	32.43	52.82	54.00	-1.18

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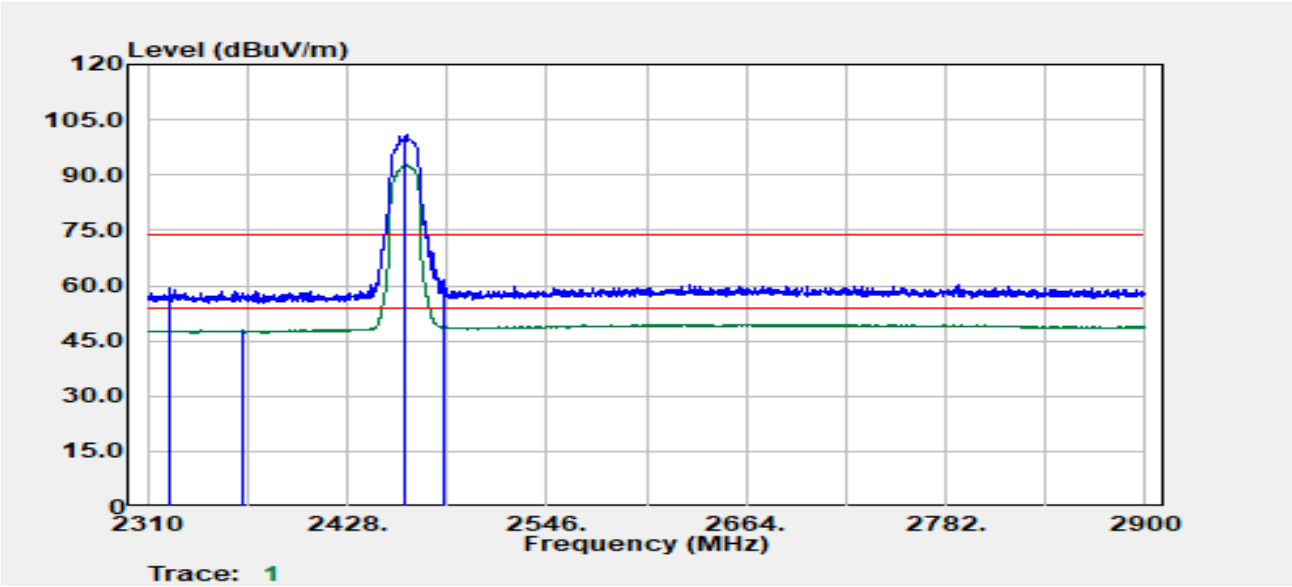
Project No	:TM-2405000018P	Test Date	:2024-05-15
Operation Band	:802.11g	Temp./Humi.	:24.6/57
Frequency	:2462 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Ray Li
EUT Pol	:E2	Test Chamber	: 966A
Setting	:12		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2323.51	Peak	27.26	32.04	59.31	74.00	-14.69
2365.52	Average	15.80	32.03	47.83	54.00	-6.17
2462.00	Peak	68.96	32.10	101.06	- -	- -
2462.00	Average	60.55	32.10	92.65	- -	- -
2484.57	Peak	29.09	32.44	61.53	74.00	-12.47
2484.82	Average	16.36	32.44	48.80	54.00	-5.20

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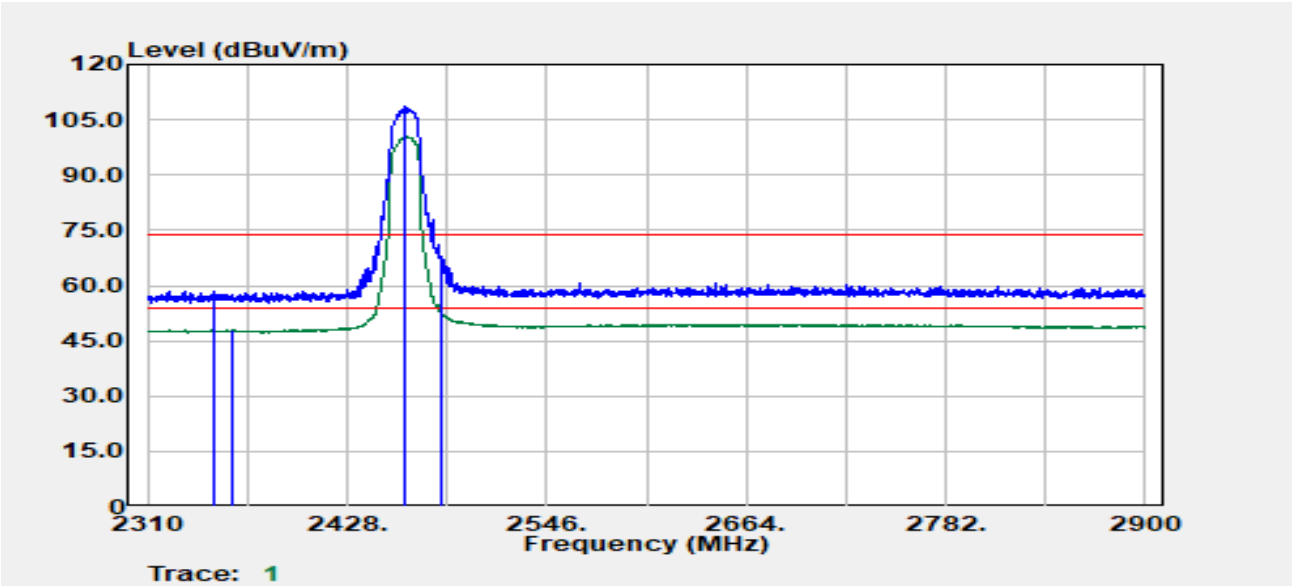
Project No	:TM-2405000018P	Test Date	:2024-05-15
Operation Band	:802.11g	Temp./Humi.	:24.6/57
Frequency	:2462 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Ray Li
EUT Pol	:E2	Test Chamber	: 966A
Setting	:12		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2349.20	Peak	26.54	32.06	58.60	74.00	-15.40
2360.69	Average	15.75	32.07	47.83	54.00	-6.17
2462.00	Peak	76.49	32.10	108.58	- -	- -
2462.00	Average	68.25	32.10	100.35	- -	- -
2484.03	Average	19.98	32.44	52.42	54.00	-1.58
2484.28	Peak	35.35	32.44	67.79	74.00	-6.21

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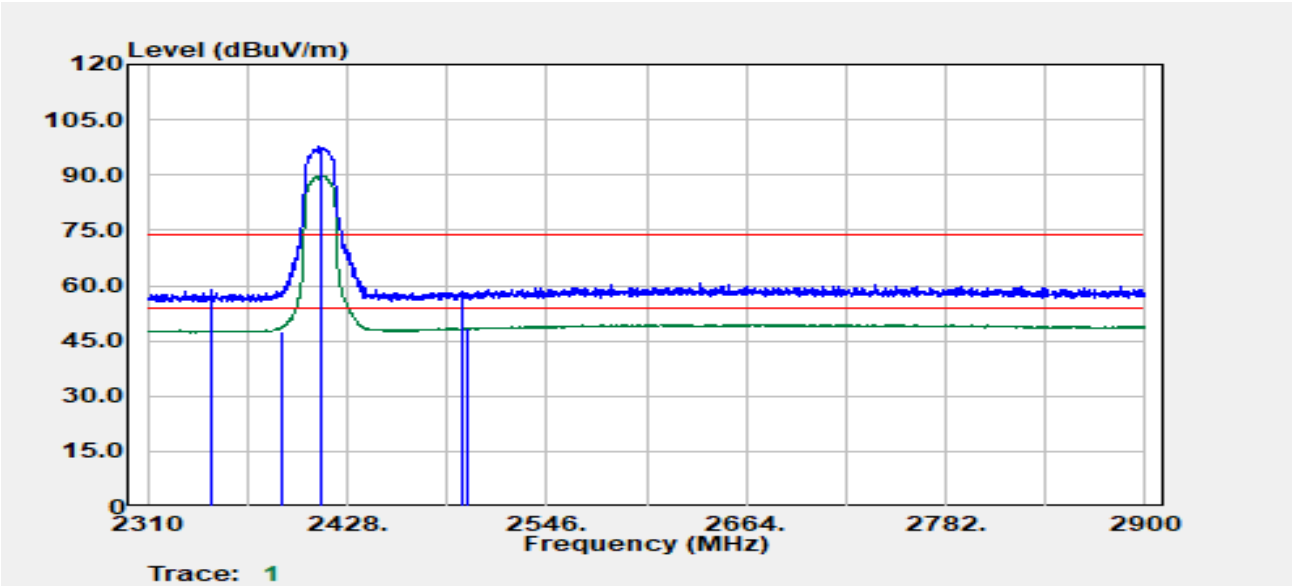
Project No	:TM-2405000018P	Test Date	:2024-05-20
Operation Band	:802.11n20	Temp./Humi.	:24.6/57
Frequency	:2412 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Ray Li
EUT Pol	:E2	Test Chamber	: 966A
Setting	:15		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2347.52	Peak	26.74	32.04	58.78	74.00	-15.22
2389.78	Average	15.65	32.11	47.75	54.00	-6.25
2412.00	Peak	65.88	32.13	98.01	- -	- -
2412.00	Average	57.68	32.13	89.81	- -	- -
2496.33	Peak	25.90	32.51	58.40	74.00	-15.60
2499.33	Average	15.84	32.51	48.35	54.00	-5.65

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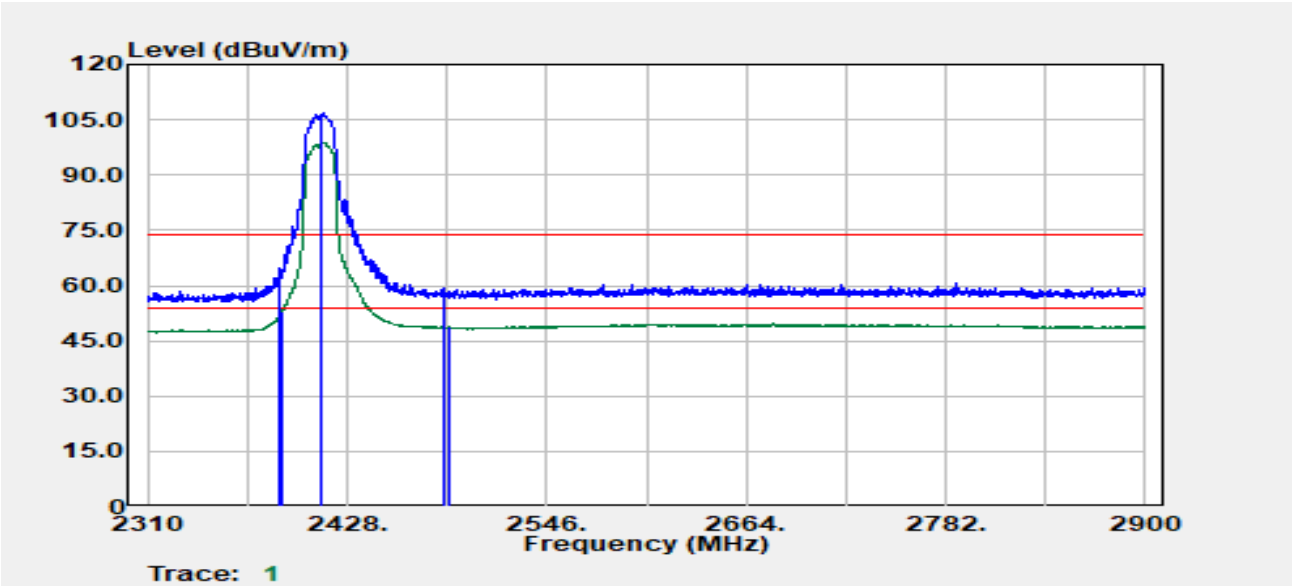
Project No	:TM-2405000018P	Test Date	:2024-05-20
Operation Band	:802.11n20	Temp./Humi.	:24.6/57
Frequency	:2412 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Ray Li
EUT Pol	:E2	Test Chamber	: 966A
Setting	:15		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2388.28	Peak	32.62	32.07	64.69	74.00	-9.31
2390.00	Average	20.83	32.11	52.94	54.00	-1.06
2412.00	Peak	74.62	32.13	106.75	- -	- -
2412.00	Average	66.56	32.13	98.69	- -	- -
2484.57	Peak	26.70	32.44	59.14	74.00	-14.86
2487.58	Average	16.22	32.47	48.69	54.00	-5.31

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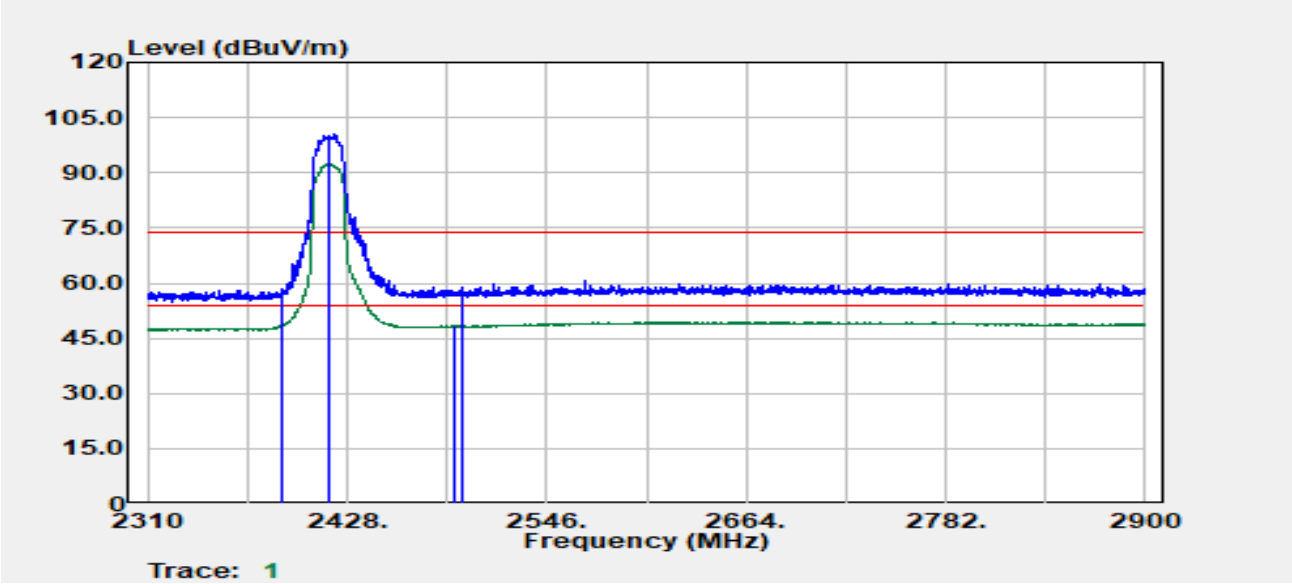
Project No	:TM-2405000018P	Test Date	:2024-05-21
Operation Band	:802.11n20	Temp./Humi.	:24.6/57
Frequency	:2417 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Tony Chao
EUT Pol	:E2	Test Chamber	: 966A
Setting	:17		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2389.90	Peak	26.50	32.11	58.60	74.00	-15.40
2389.90	Average	16.24	32.11	48.35	54.00	-5.65
2417.00	Peak	68.23	32.14	100.37	- -	- -
2417.00	Average	60.17	32.14	92.30	- -	- -
2492.02	Average	15.91	32.50	48.42	54.00	-5.58
2496.51	Peak	26.26	32.51	58.77	74.00	-15.23

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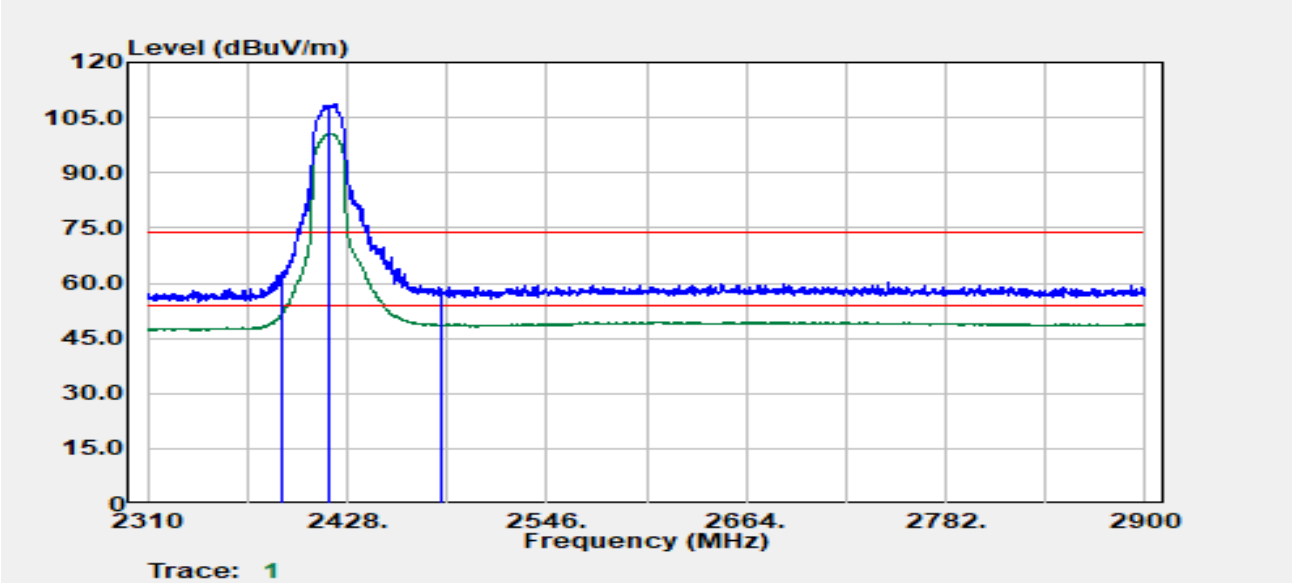
Project No	:TM-2405000018P	Test Date	:2024-05-21
Operation Band	:802.11n20	Temp./Humi.	:24.6/57
Frequency	:2417 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Tony Chao
EUT Pol	:E2	Test Chamber	: 966A
Setting	:17		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2389.90	Peak	31.04	32.11	63.15	74.00	-10.85
2389.90	Average	20.13	32.11	52.23	54.00	-1.77
2417.00	Peak	76.46	32.14	108.60	- -	- -
2417.00	Average	68.59	32.14	100.73	- -	- -
2483.50	Peak	26.41	32.43	58.84	74.00	-15.16
2483.78	Average	16.45	32.43	48.89	54.00	-5.11

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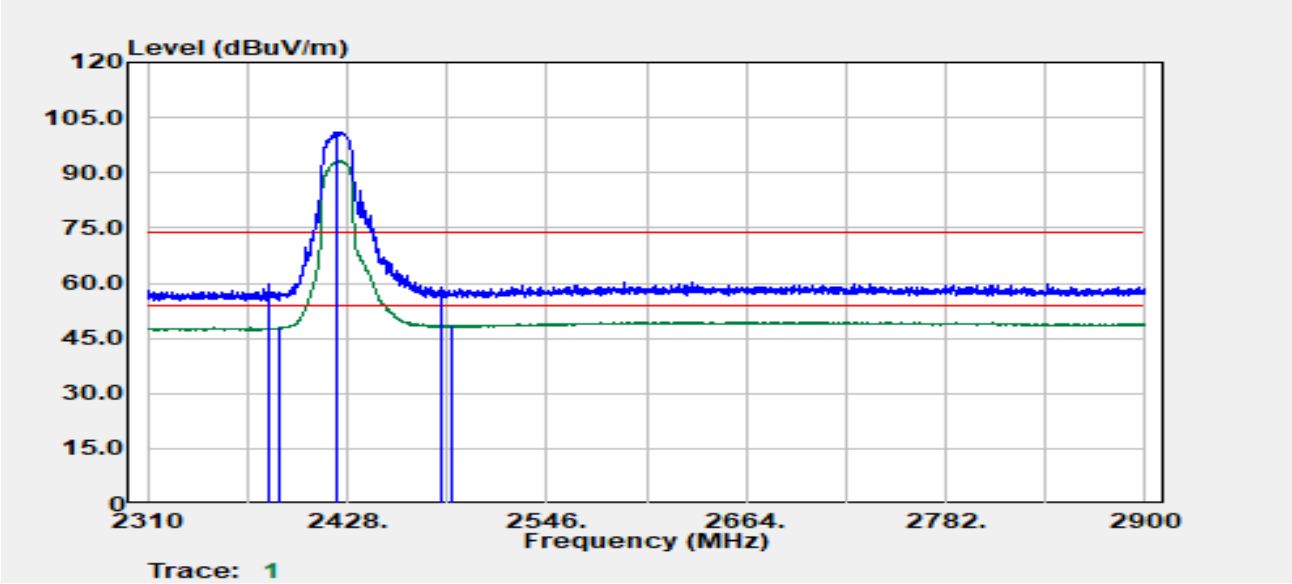
Project No	:TM-2405000018P	Test Date	:2024-05-21
Operation Band	:802.11n20	Temp./Humi.	:24.6/57
Frequency	:2422 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Tony Chao
EUT Pol	:E2	Test Chamber	: 966A
Setting	:18		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2381.41	Peak	27.75	31.93	59.68	74.00	-14.32
2387.90	Average	15.82	32.07	47.88	54.00	-6.12
2422.00	Peak	68.93	32.16	101.09	- -	- -
2422.00	Average	61.03	32.16	93.19	- -	- -
2483.78	Peak	26.30	32.43	58.73	74.00	-15.27
2490.27	Average	15.95	32.50	48.45	54.00	-5.55

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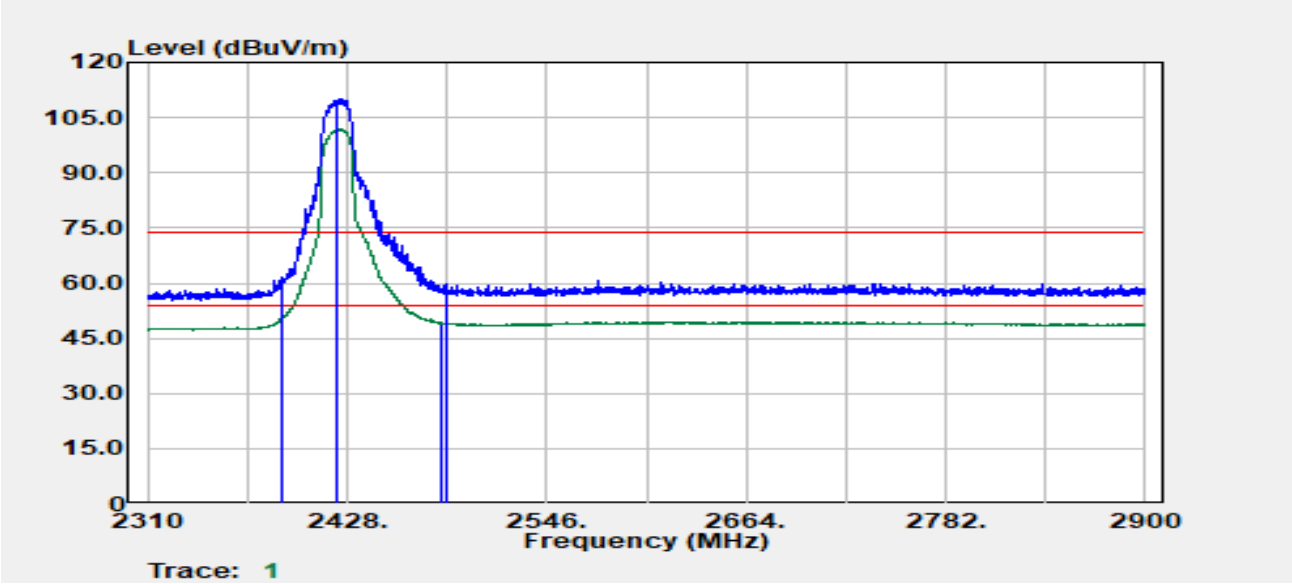
Project No	:TM-2405000018P	Test Date	:2024-05-21
Operation Band	:802.11n20	Temp./Humi.	:24.6/57
Frequency	:2422 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Tony Chao
EUT Pol	:E2	Test Chamber	: 966A
Setting	:18		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2389.65	Peak	29.38	32.10	61.48	74.00	-12.52
2389.90	Average	18.28	32.11	50.39	54.00	-3.61
2422.00	Peak	77.92	32.16	110.08	- -	- -
2422.00	Average	69.60	32.16	101.76	- -	- -
2483.53	Average	16.70	32.43	49.13	54.00	-4.87
2486.78	Peak	27.49	32.47	59.96	74.00	-14.04

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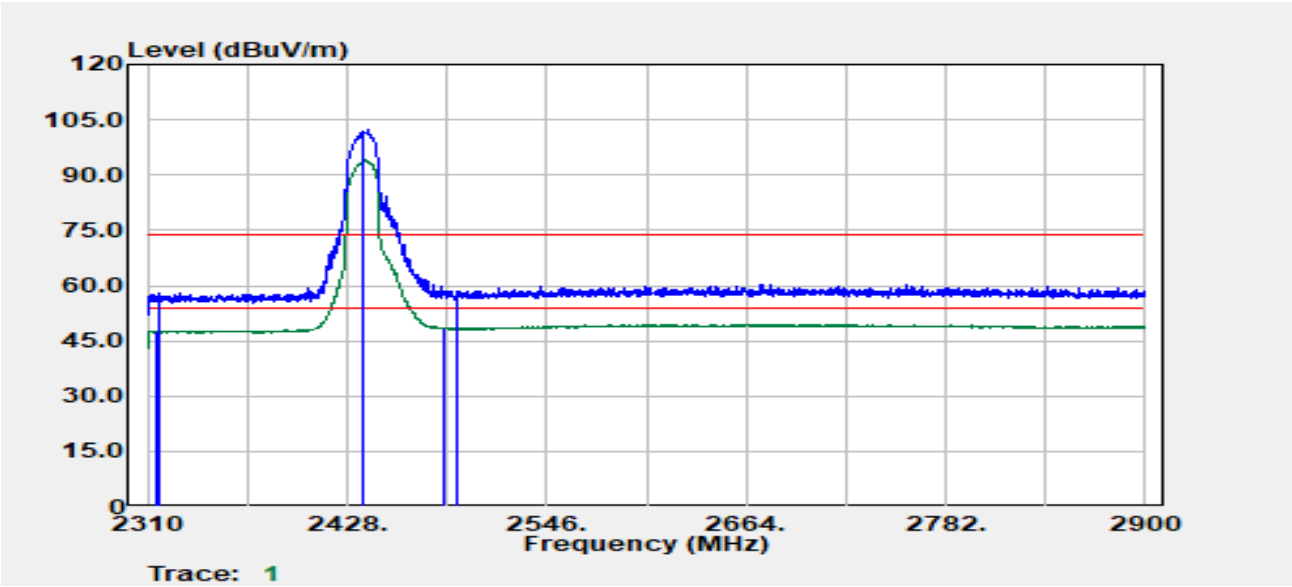
Project No	:TM-2405000018P	Test Date	:2024-05-16
Operation Band	:802.11n20	Temp./Humi.	:24.6/57
Frequency	:2437 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Ray Li
EUT Pol	:E2	Test Chamber	: 966A
Setting	:18		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2315.25	Average	15.73	32.04	47.77	54.00	-6.23
2316.75	Peak	25.83	32.04	57.86	74.00	-16.14
2437.00	Peak	69.97	32.18	102.15	- -	- -
2437.00	Average	61.84	32.18	94.03	- -	- -
2484.57	Average	16.21	32.44	48.65	54.00	-5.35
2493.33	Peak	26.01	32.50	58.51	74.00	-15.49

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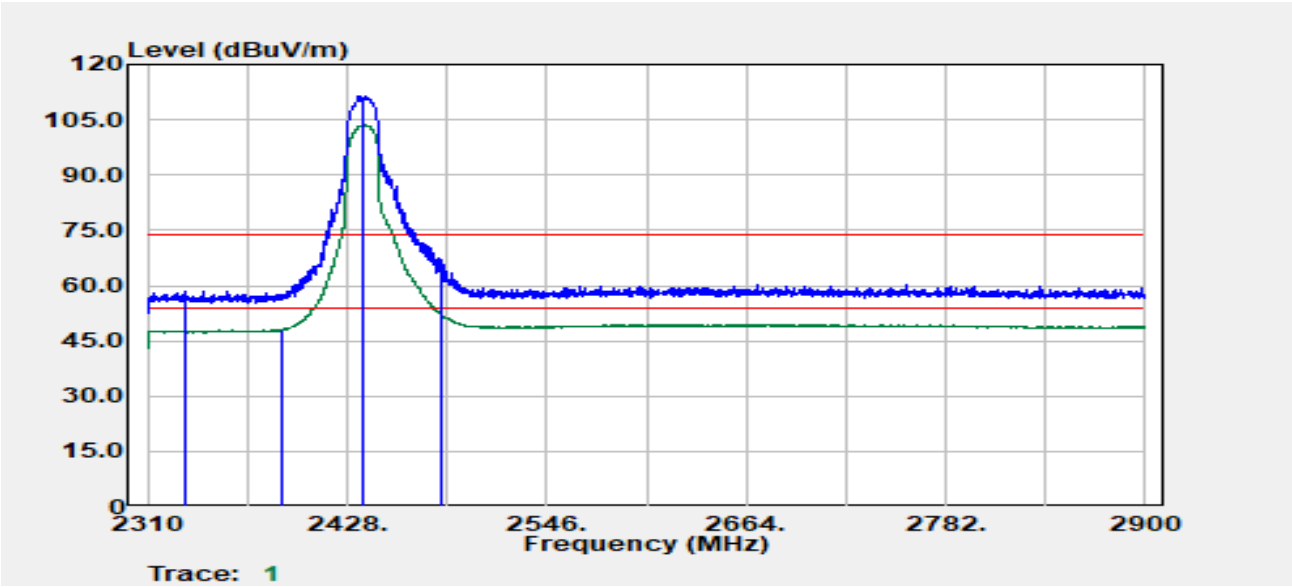
Project No	:TM-2405000018P	Test Date	:2024-05-16
Operation Band	:802.11n20	Temp./Humi.	:24.6/57
Frequency	:2437 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Ray Li
EUT Pol	:E2	Test Chamber	: 966A
Setting	:18		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2331.47	Peak	26.38	32.04	58.41	74.00	-15.59
2389.90	Average	15.96	32.11	48.07	54.00	-5.93
2437.00	Peak	79.32	32.18	111.50	- -	- -
2437.00	Average	71.58	32.18	103.76	- -	- -
2483.53	Average	19.86	32.43	52.29	54.00	-1.71
2483.78	Peak	34.76	32.43	67.20	74.00	-6.80

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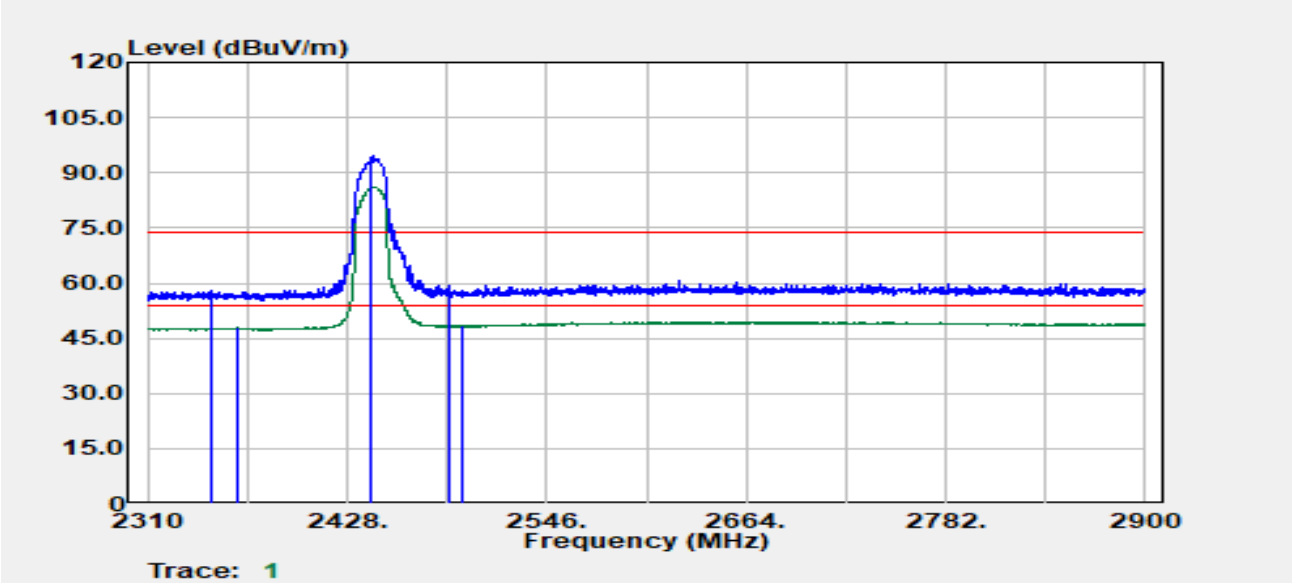
Project No	:TM-2405000018P	Test Date	:2024-05-21
Operation Band	:802.11n20	Temp./Humi.	:24.6/57
Frequency	:2442 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Tony Chao
EUT Pol	:E2	Test Chamber	: 966A
Setting	:17		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2348.20	Peak	25.86	32.05	57.91	74.00	-16.09
2362.93	Average	15.75	32.05	47.80	54.00	-6.20
2442.00	Peak	62.55	32.16	94.70	- -	- -
2442.00	Average	53.95	32.16	86.11	- -	- -
2488.52	Peak	26.93	32.48	59.41	74.00	-14.59
2496.26	Average	15.90	32.51	48.41	54.00	-5.59

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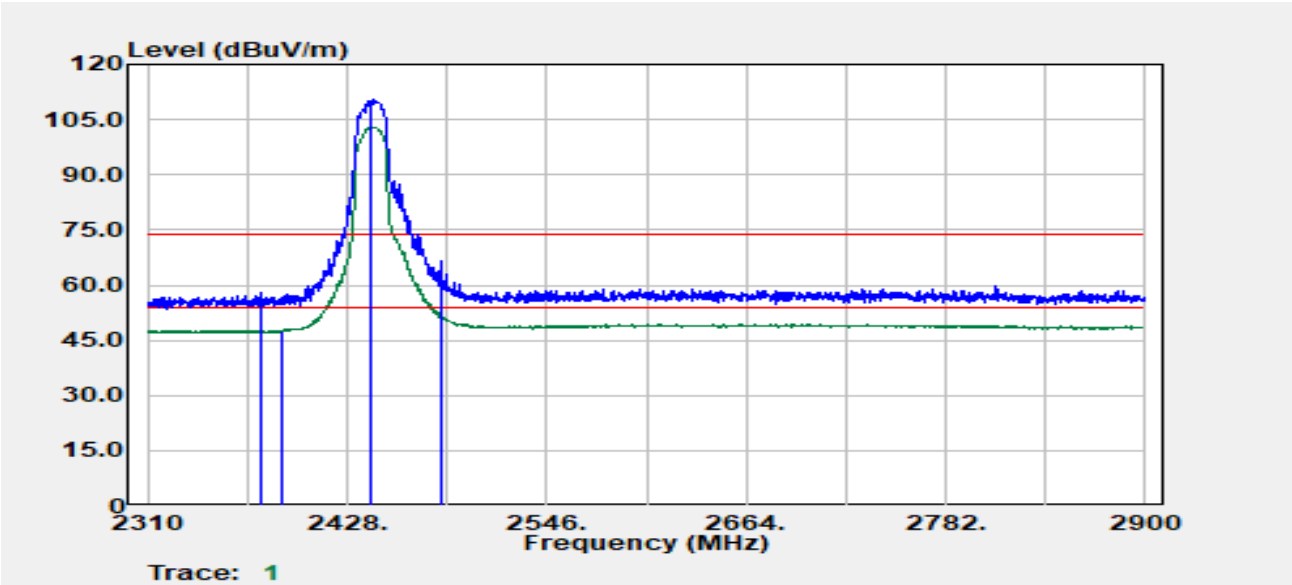
Project No	:TM-2405000018P	Test Date	:2024-05-21
Operation Band	:802.11n20	Temp./Humi.	:24.6/57
Frequency	:2442 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Tony Chao
EUT Pol	:E2	Test Chamber	: 966A
Setting	:17		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2376.67	Peak	26.03	31.93	57.96	74.00	-16.04
2389.90	Average	15.60	32.11	47.71	54.00	-6.29
2442.00	Peak	78.32	32.16	110.48	- -	- -
2442.00	Average	70.80	32.16	102.96	- -	- -
2483.50	Peak	30.33	32.43	62.76	74.00	-11.24
2483.78	Average	19.01	32.43	51.45	54.00	-2.55

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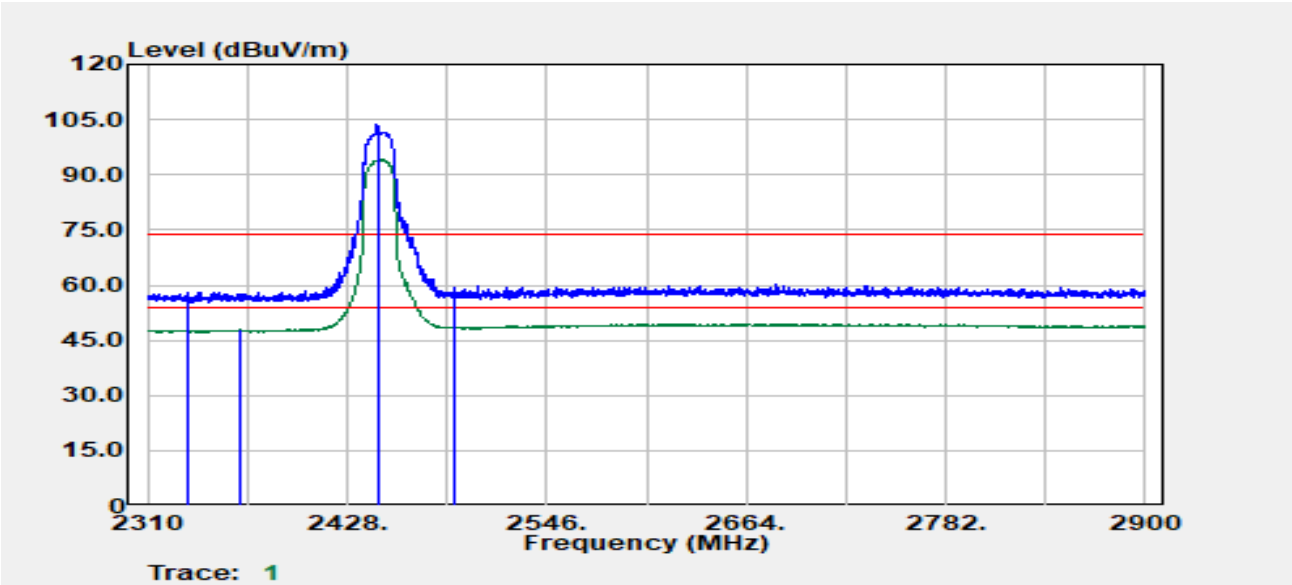
Project No	:TM-2405000018P	Test Date	:2024-05-21
Operation Band	:802.11n20	Temp./Humi.	:24.6/57
Frequency	:2447 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Tony Chao
EUT Pol	:E2	Test Chamber	: 966A
Setting	:16		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2333.47	Peak	26.12	32.02	58.14	74.00	-15.86
2364.68	Average	15.77	32.04	47.81	54.00	-6.19
2447.00	Peak	71.31	32.16	103.47	- -	- -
2447.00	Average	61.97	32.16	94.13	- -	- -
2491.52	Peak	26.69	32.50	59.19	74.00	-14.81
2491.77	Average	16.11	32.50	48.61	54.00	-5.39

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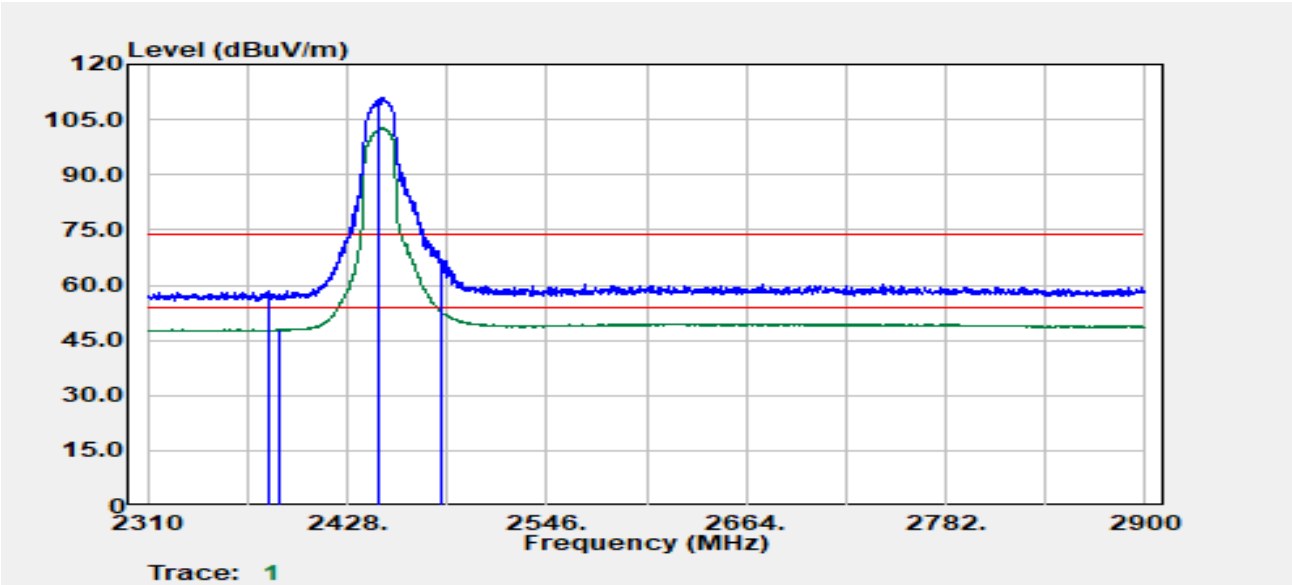
Project No	:TM-2405000018P	Test Date	:2024-05-21
Operation Band	:802.11n20	Temp./Humi.	:24.6/57
Frequency	:2447 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Tony Chao
EUT Pol	:E2	Test Chamber	: 966A
Setting	:16		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2382.41	Peak	26.40	31.95	58.35	74.00	-15.65
2388.40	Average	15.83	32.08	47.91	54.00	-6.09
2447.00	Peak	78.88	32.16	111.04	- -	- -
2447.00	Average	70.51	32.16	102.68	- -	- -
2483.50	Peak	34.43	32.43	66.86	74.00	-7.14
2483.53	Average	20.45	32.43	52.88	54.00	-1.12

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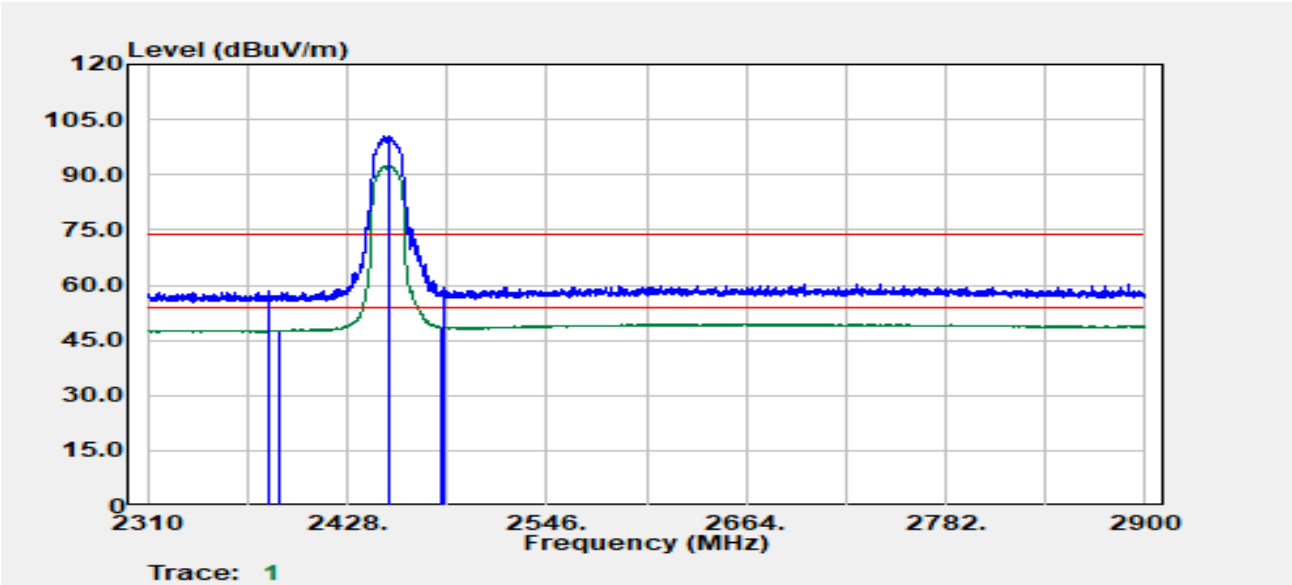
Project No	:TM-2405000018P	Test Date	:2024-05-21
Operation Band	:802.11n20	Temp./Humi.	:24.6/57
Frequency	:2452 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Tony Chao
EUT Pol	:E2	Test Chamber	: 966A
Setting	:15		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2382.41	Peak	26.24	31.95	58.20	74.00	-15.80
2387.65	Average	15.70	32.06	47.76	54.00	-6.24
2452.00	Peak	68.40	32.15	100.55	- -	- -
2452.00	Average	60.27	32.15	92.42	- -	- -
2484.03	Average	16.22	32.44	48.66	54.00	-5.34
2485.28	Peak	26.95	32.45	59.39	74.00	-14.61

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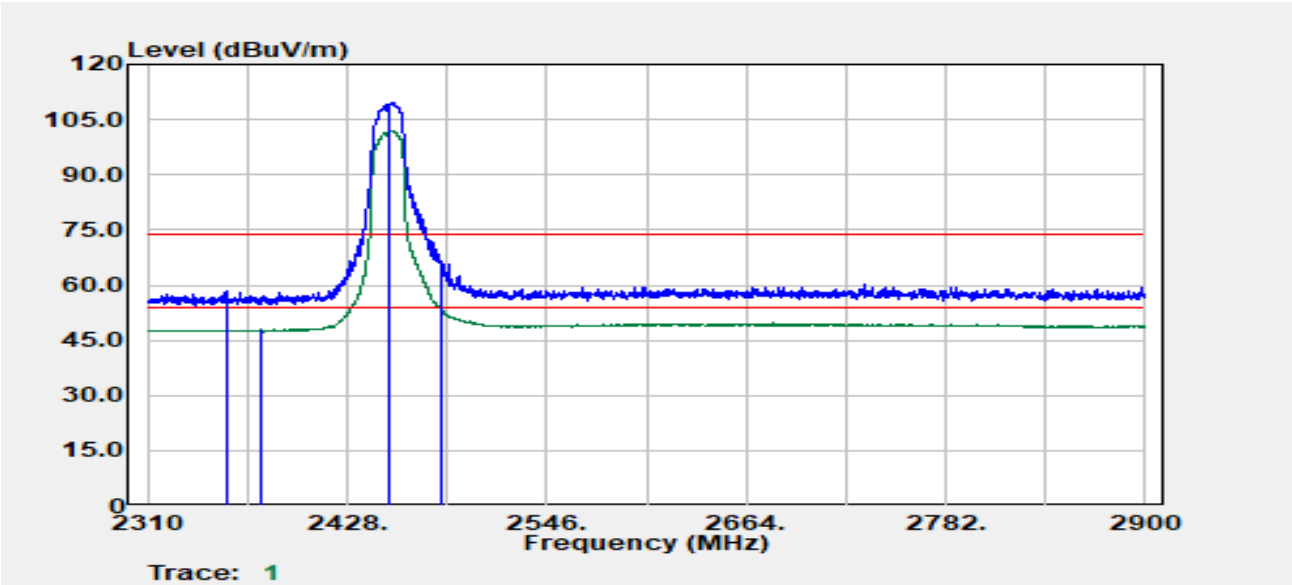
Project No	:TM-2405000018P	Test Date	:2024-05-21
Operation Band	:802.11n20	Temp./Humi.	:24.6/57
Frequency	:2452 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Tony Chao
EUT Pol	:E2	Test Chamber	: 966A
Setting	:15		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2356.19	Peak	26.52	32.08	58.59	74.00	-15.41
2376.42	Average	15.88	31.93	47.82	54.00	-6.18
2452.00	Peak	77.45	32.15	109.60	- -	- -
2452.00	Average	69.85	32.15	102.00	- -	- -
2483.50	Peak	34.30	32.43	66.73	74.00	-7.27
2483.53	Average	20.87	32.43	53.30	54.00	-0.70

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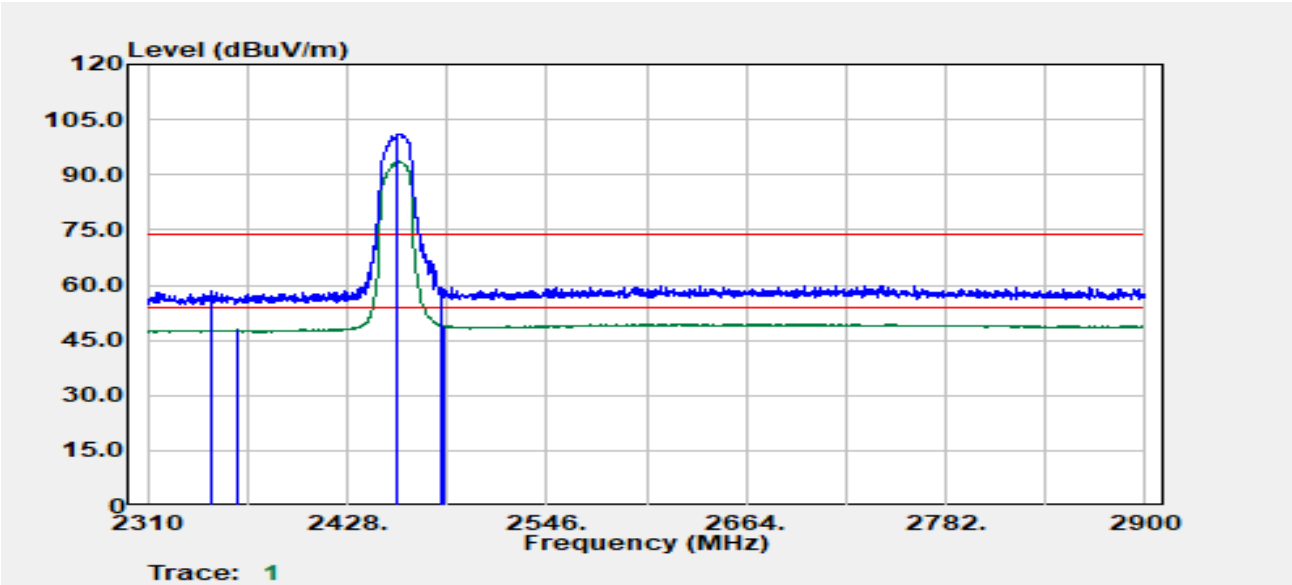
Project No	:TM-2405000018P	Test Date	:2024-05-21
Operation Band	:802.11n20	Temp./Humi.	:24.6/57
Frequency	:2457 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Tony Chao
EUT Pol	:E2	Test Chamber	: 966A
Setting	:13		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2347.45	Peak	26.50	32.04	58.54	74.00	-15.46
2363.43	Average	15.73	32.05	47.78	54.00	-6.22
2457.00	Peak	68.89	32.10	100.99	- -	- -
2457.00	Average	61.42	32.10	93.53	- -	- -
2483.50	Peak	26.74	32.43	59.17	74.00	-14.83
2484.53	Average	16.66	32.44	49.10	54.00	-4.90

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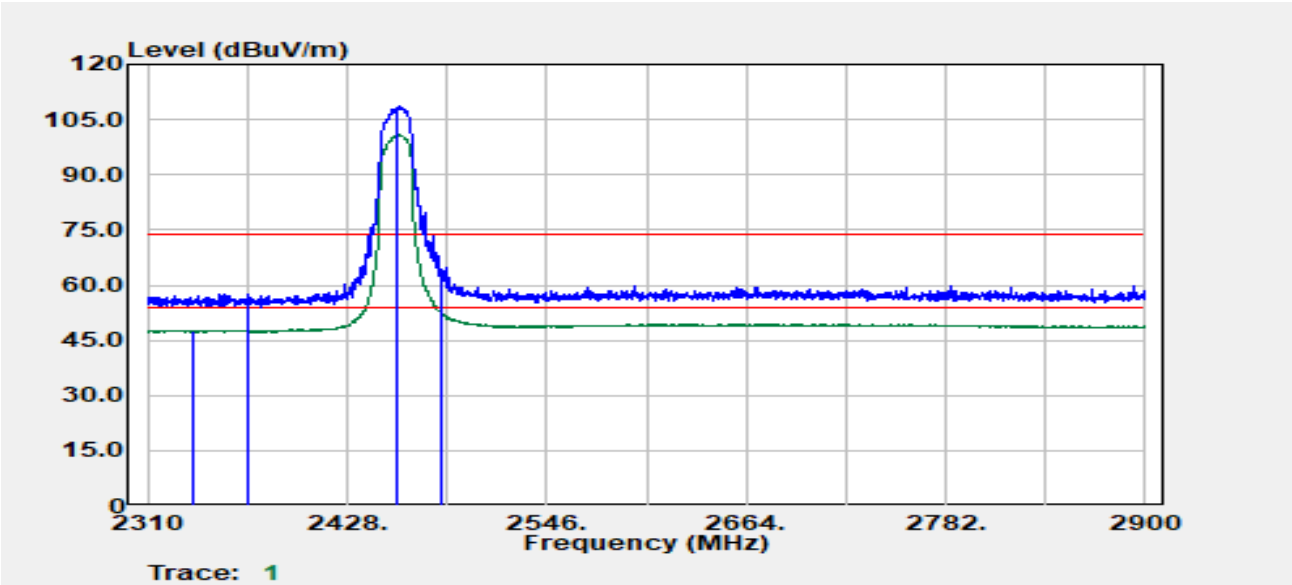
Project No	:TM-2405000018P	Test Date	:2024-05-21
Operation Band	:802.11n20	Temp./Humi.	:24.6/57
Frequency	:2457 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Tony Chao
EUT Pol	:E2	Test Chamber	: 966A
Setting	:13		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2336.97	Average	15.73	31.99	47.72	54.00	-6.28
2368.93	Peak	25.53	32.00	57.53	74.00	-16.47
2457.00	Peak	76.46	32.10	108.56	- -	- -
2457.00	Average	68.73	32.10	100.83	- -	- -
2483.50	Peak	32.37	32.43	64.80	74.00	-9.20
2483.53	Average	20.10	32.43	52.53	54.00	-1.47

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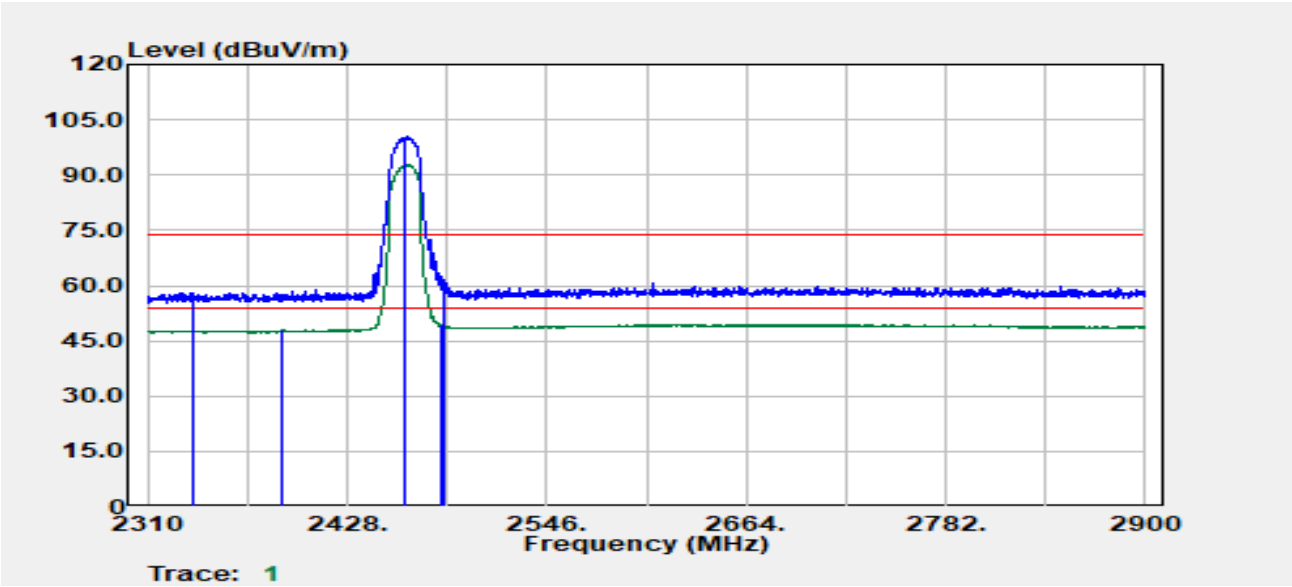
Project No	:TM-2405000018P	Test Date	:2024-05-15
Operation Band	:802.11n20	Temp./Humi.	:24.6/57
Frequency	:2462 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Ray Li
EUT Pol	:E2	Test Chamber	: 966A
Setting	:12		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2336.76	Peak	26.09	31.99	58.08	74.00	-15.92
2388.78	Average	15.72	32.08	47.80	54.00	-6.20
2462.00	Peak	68.43	32.10	100.52	- -	- -
2462.00	Average	60.77	32.10	92.87	- -	- -
2484.07	Average	16.76	32.44	49.20	54.00	-4.80
2485.32	Peak	29.17	32.45	61.62	74.00	-12.38

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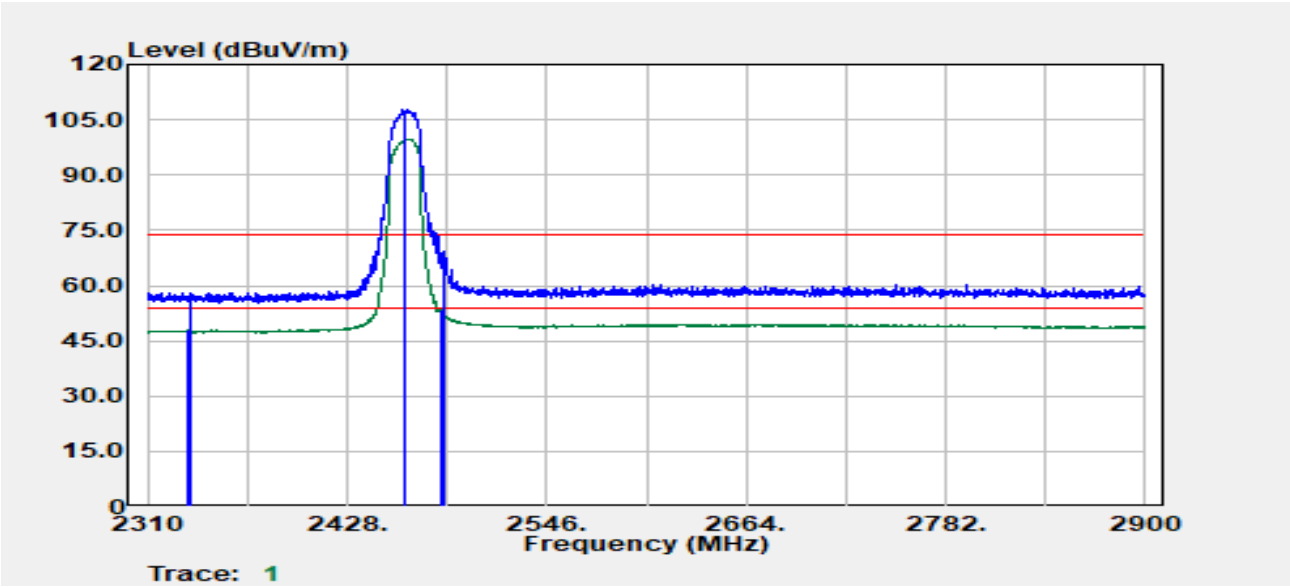
Project No	:TM-2405000018P	Test Date	:2024-05-15
Operation Band	:802.11n20	Temp./Humi.	:24.6/57
Frequency	:2462 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Ray Li
EUT Pol	:E2	Test Chamber	: 966A
Setting	:12		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2333.76	Average	15.78	32.02	47.80	54.00	-6.20
2335.76	Peak	26.08	32.00	58.07	74.00	-15.93
2462.00	Peak	75.75	32.10	107.85	- -	- -
2462.00	Average	67.75	32.10	99.85	- -	- -
2483.57	Average	20.81	32.43	53.24	54.00	-0.76
2485.82	Peak	36.66	32.46	69.11	74.00	-4.89

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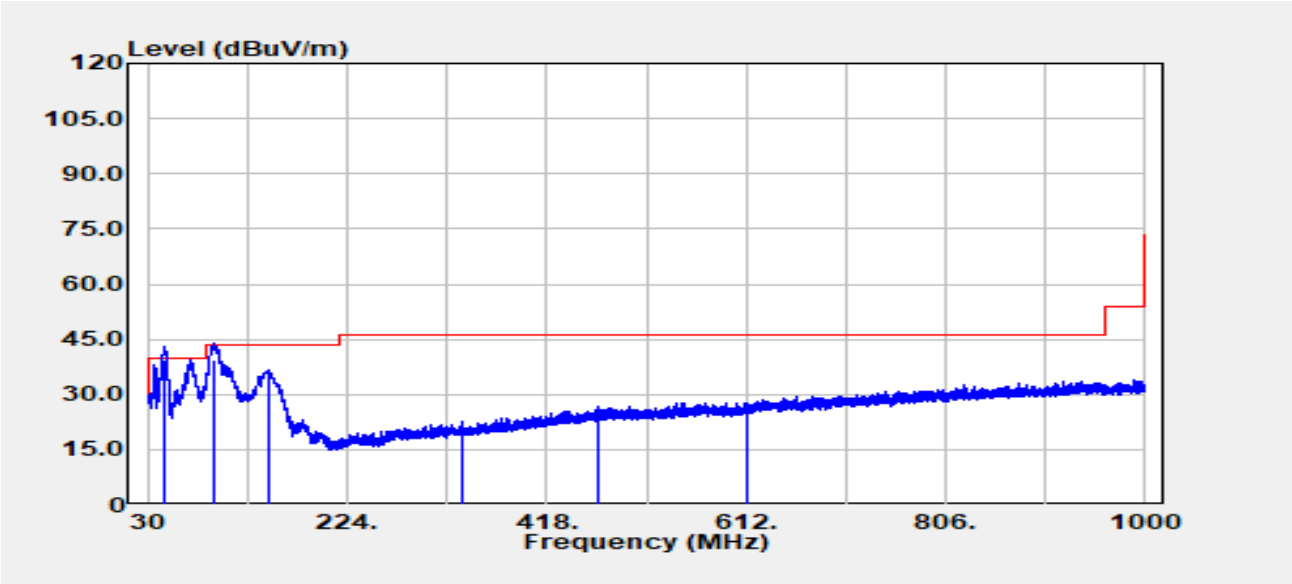
TX Test Data

Project No	:TM-2405000018P	Test Date	:2024-05-17
Operation Band	:802.11n20	Temp./Humi.	:24.6/57
Frequency	:2412 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:E2	Test Chamber	: 966A
Setting	:		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
46.01	QP	52.86	-13.27	39.59	40.00	-0.41
93.54	QP	54.04	-14.43	39.61	43.50	-3.89
147.73	Peak	46.96	-10.20	36.76	43.50	-6.74
335.43	Peak	30.58	-7.81	22.77	46.00	-23.23
467.23	Peak	30.77	-3.90	26.87	46.00	-19.13
613.21	Peak	29.35	-1.50	27.85	46.00	-18.15

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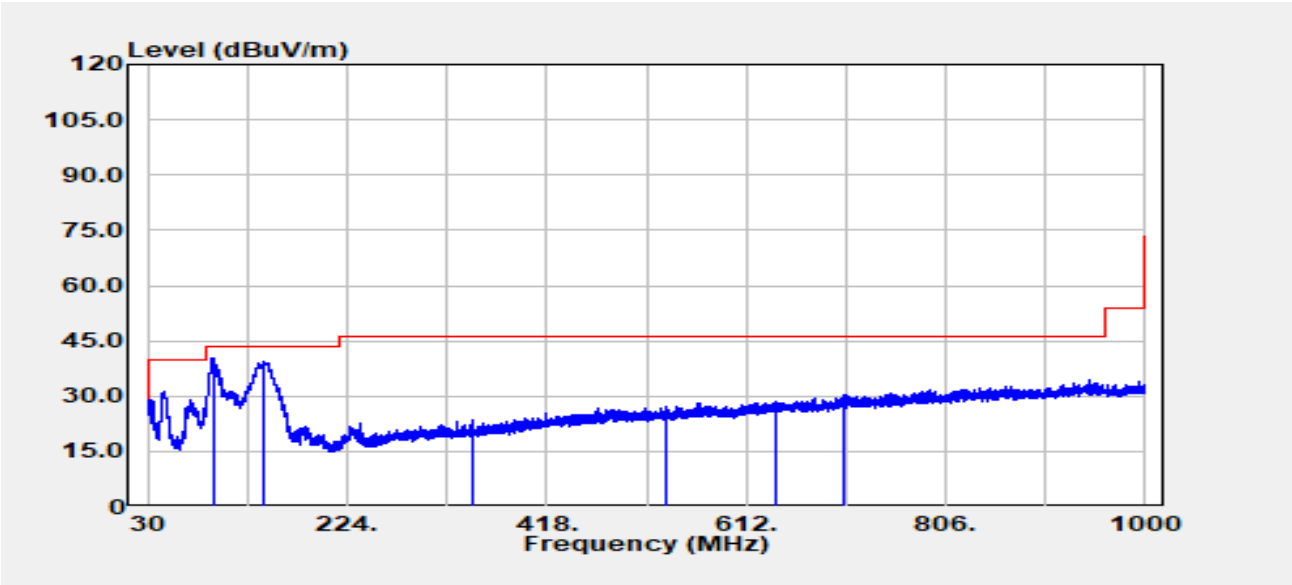
Project No	:TM-2405000018P	Test Date	:2024-05-17
Operation Band	:802.11n20	Temp./Humi.	:24.6/57
Frequency	:2412 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:E2	Test Chamber	: 966A
Setting	:		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
93.66	Peak	54.82	-14.44	40.37	43.50	-3.13
141.91	Peak	49.34	-9.92	39.42	43.50	-4.08
346.46	Peak	31.02	-7.51	23.51	46.00	-22.49
533.92	Peak	30.19	-2.95	27.24	46.00	-18.76
641.95	Peak	29.18	-0.71	28.47	46.00	-17.53
706.09	Peak	30.39	0.11	30.50	46.00	-15.50

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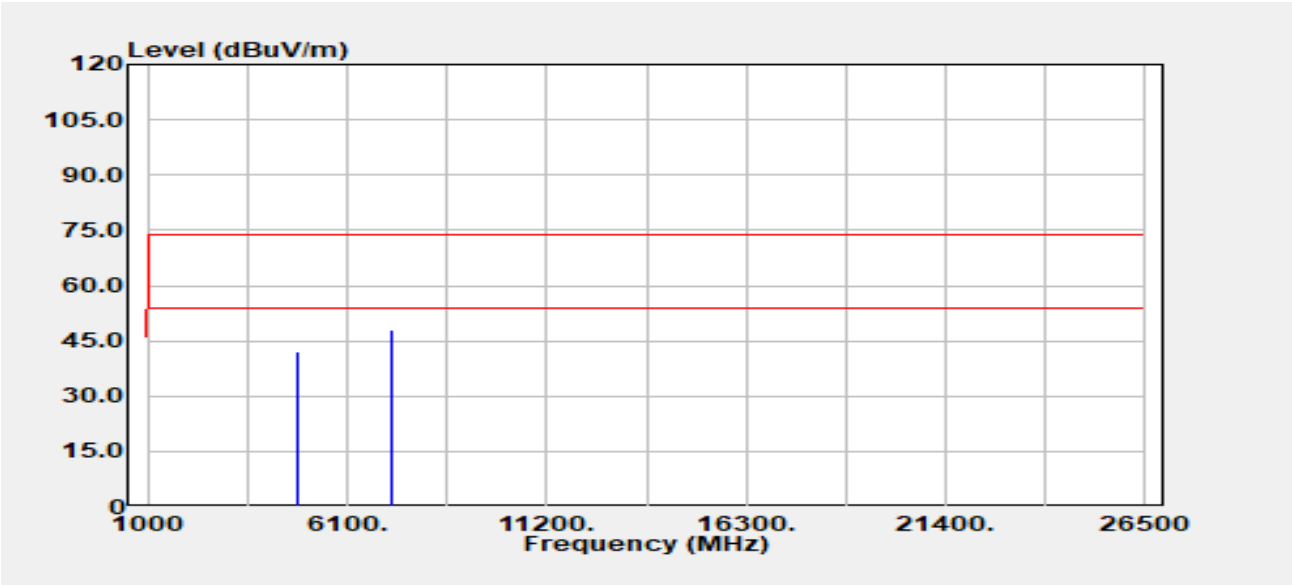
Project No	:TM-2405000018P	Test Date	:2024-05-15
Operation Band	:802.11b	Temp./Humi.	:24.6/57
Frequency	:2412 MHz	Antenna Pol.	:Vertical
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:E2	Test Chamber	: 966A
Setting	:19		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
4824.00	Peak	39.95	2.25	42.20	74.00	-31.80
4824.00	Average	30.05	2.25	32.30	54.00	-21.70
7236.00	Peak	38.94	9.17	48.10	74.00	-25.90
7236.00	Average	36.04	9.17	45.21	54.00	-8.79

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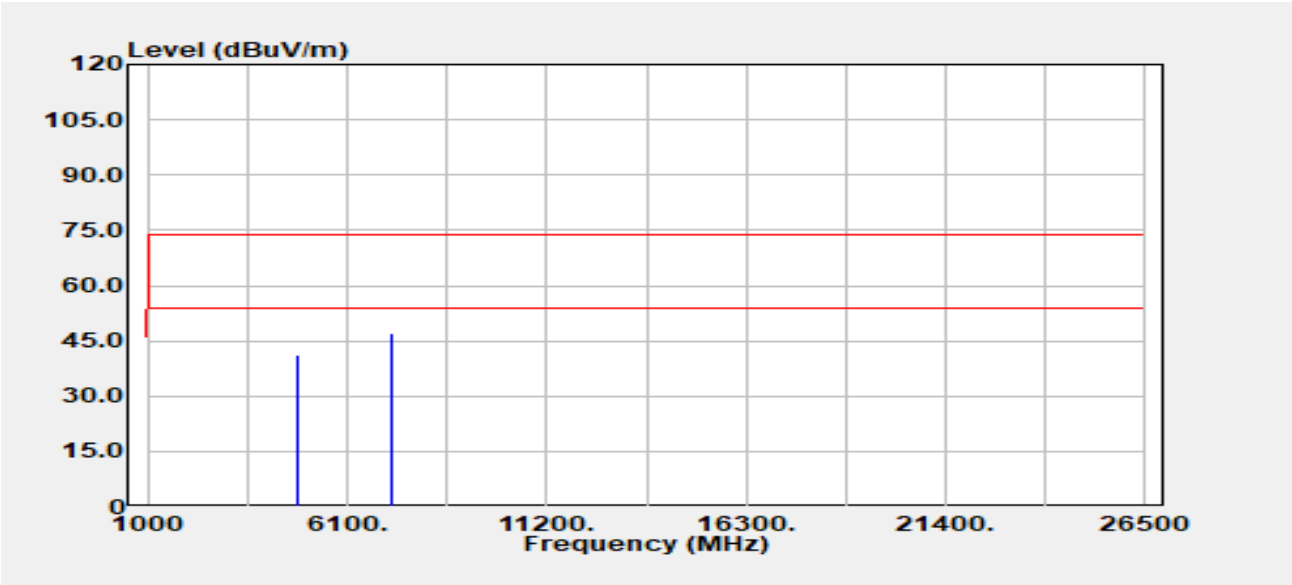
Project No	:TM-2405000018P	Test Date	:2024-05-15
Operation Band	:802.11b	Temp./Humi.	:24.6/57
Frequency	:2412 MHz	Antenna Pol.	:Horizontal
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:E2	Test Chamber	: 966A
Setting	:19		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
4824.00	Peak	38.83	2.25	41.08	74.00	-32.92
4824.00	Average	30.07	2.25	32.32	54.00	-21.68
7236.00	Peak	37.96	9.17	47.13	74.00	-26.87
7236.00	Average	33.76	9.17	42.93	54.00	-11.07

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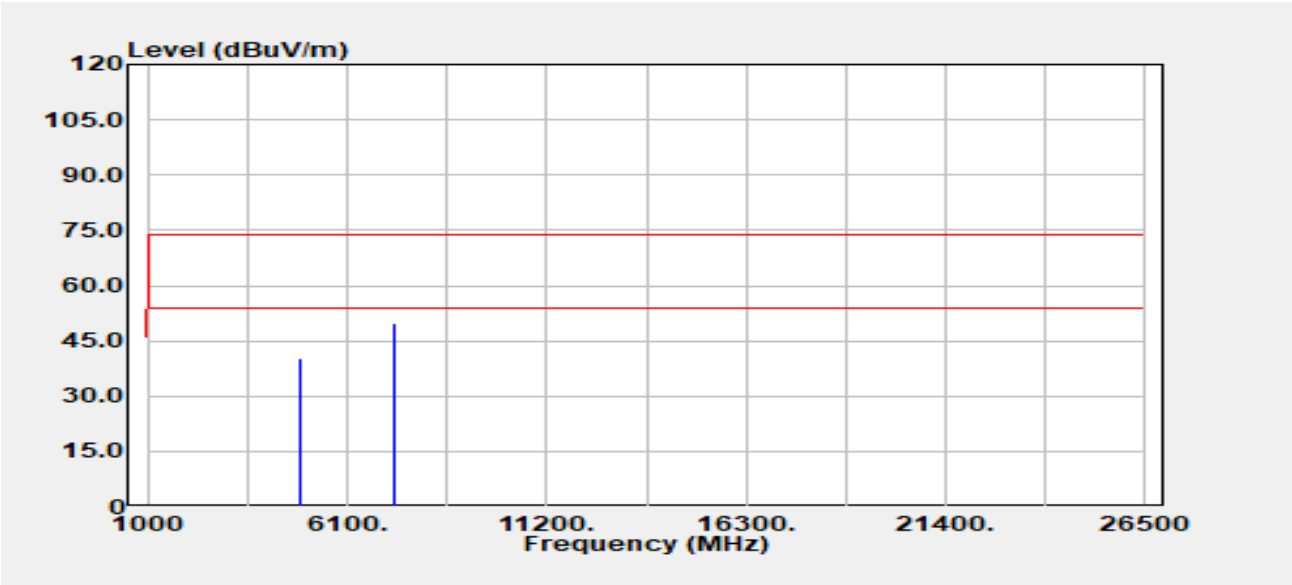
Project No	:TM-2405000018P	Test Date	:2024-05-17
Operation Band	:802.11b	Temp./Humi.	:24.6/57
Frequency	:2437 MHz	Antenna Pol.	:Vertical
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:E2	Test Chamber	: 966A
Setting	:19		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
4874.00	Peak	37.92	2.49	40.41	74.00	-33.59
4874.00	Average	29.28	2.49	31.77	54.00	-22.23
7311.00	Peak	40.86	8.96	49.82	74.00	-24.18
7311.00	Average	37.32	8.96	46.29	54.00	-7.71

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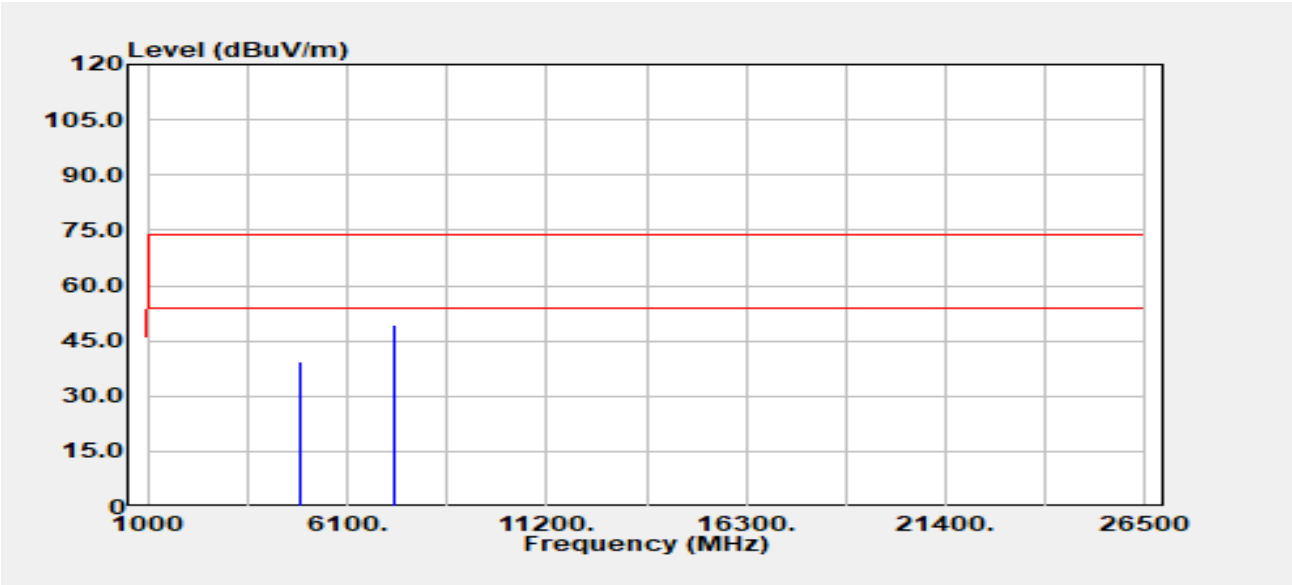
Project No	:TM-2405000018P	Test Date	:2024-05-17
Operation Band	:802.11b	Temp./Humi.	:24.6/57
Frequency	:2437 MHz	Antenna Pol.	:Horizontal
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:E2	Test Chamber	: 966A
Setting	:19		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
4874.00	Peak	36.83	2.49	39.33	74.00	-34.67
4874.00	Average	29.02	2.49	31.52	54.00	-22.48
7311.00	Peak	40.32	8.96	49.28	74.00	-24.72
7311.00	Average	37.80	8.96	46.77	54.00	-7.23

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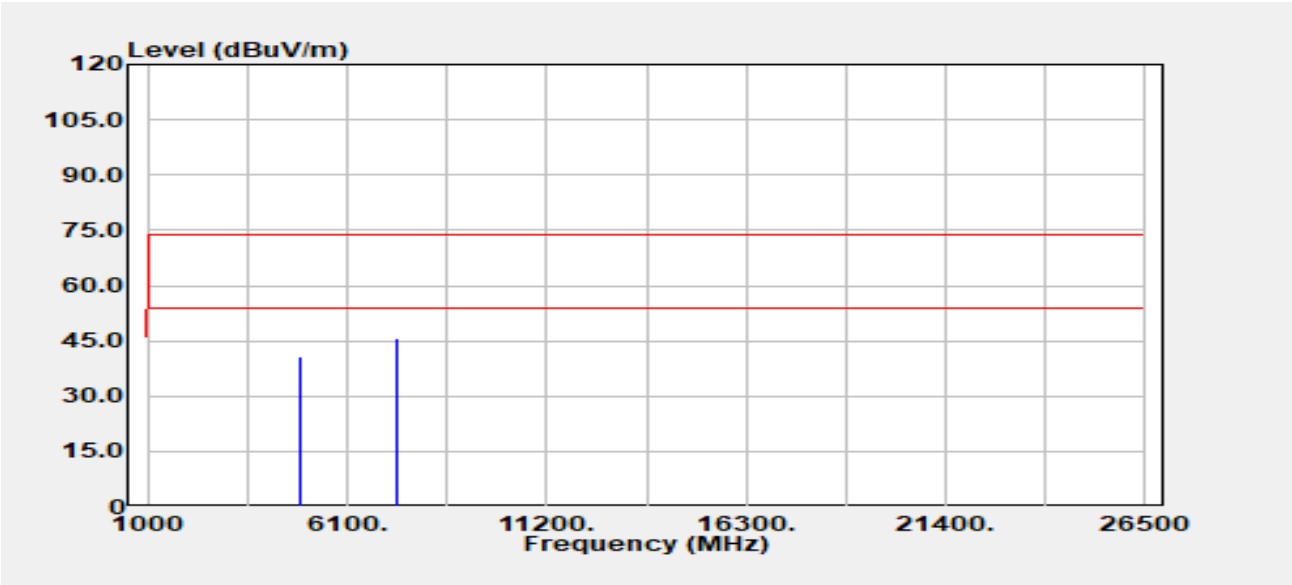
Project No	:TM-2405000018P	Test Date	:2024-05-15
Operation Band	:802.11b	Temp./Humi.	:24.6/57
Frequency	:2462 MHz	Antenna Pol.	:Vertical
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:E2	Test Chamber	: 966A
Setting	:16		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
4924.00	Peak	37.64	2.93	40.57	74.00	-33.43
4924.00	Average	29.37	2.93	32.29	54.00	-21.71
7386.00	Peak	36.76	9.01	45.78	74.00	-28.22
7386.00	Average	31.08	9.01	40.09	54.00	-13.91

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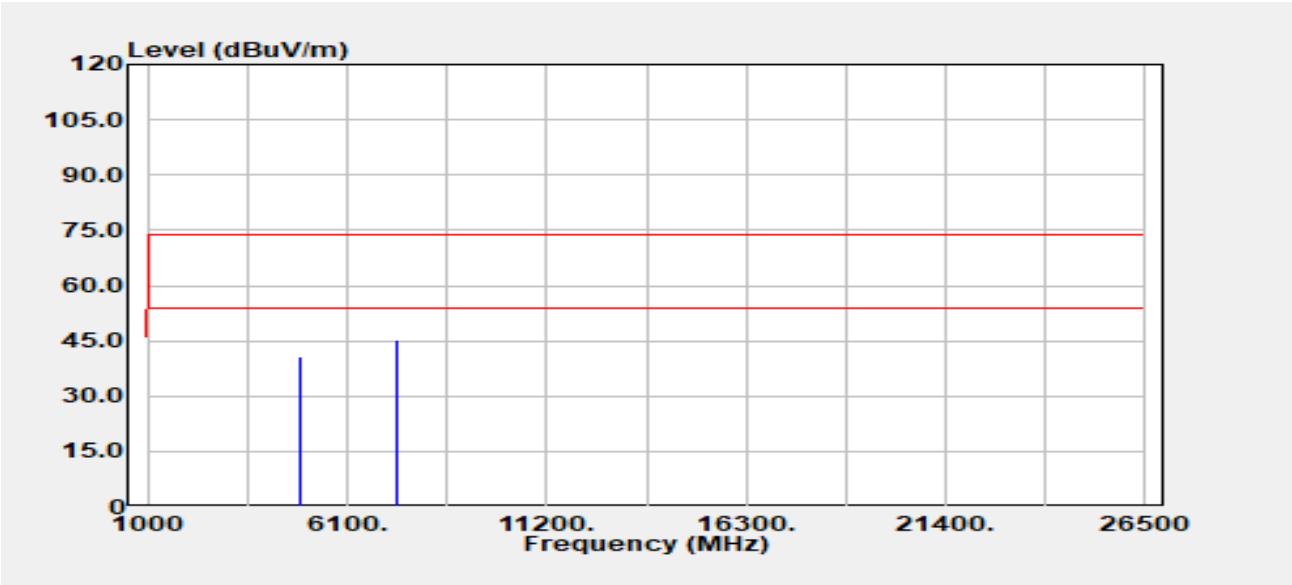
Project No	:TM-2405000018P	Test Date	:2024-05-15
Operation Band	:802.11b	Temp./Humi.	:24.6/57
Frequency	:2462 MHz	Antenna Pol.	:Horizontal
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:E2	Test Chamber	: 966A
Setting	:16		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
4924.00	Peak	37.83	2.93	40.76	74.00	-33.24
4924.00	Average	29.20	2.93	32.13	54.00	-21.87
7386.00	Peak	36.23	9.01	45.24	74.00	-28.76
7386.00	Average	31.73	9.01	40.75	54.00	-13.25

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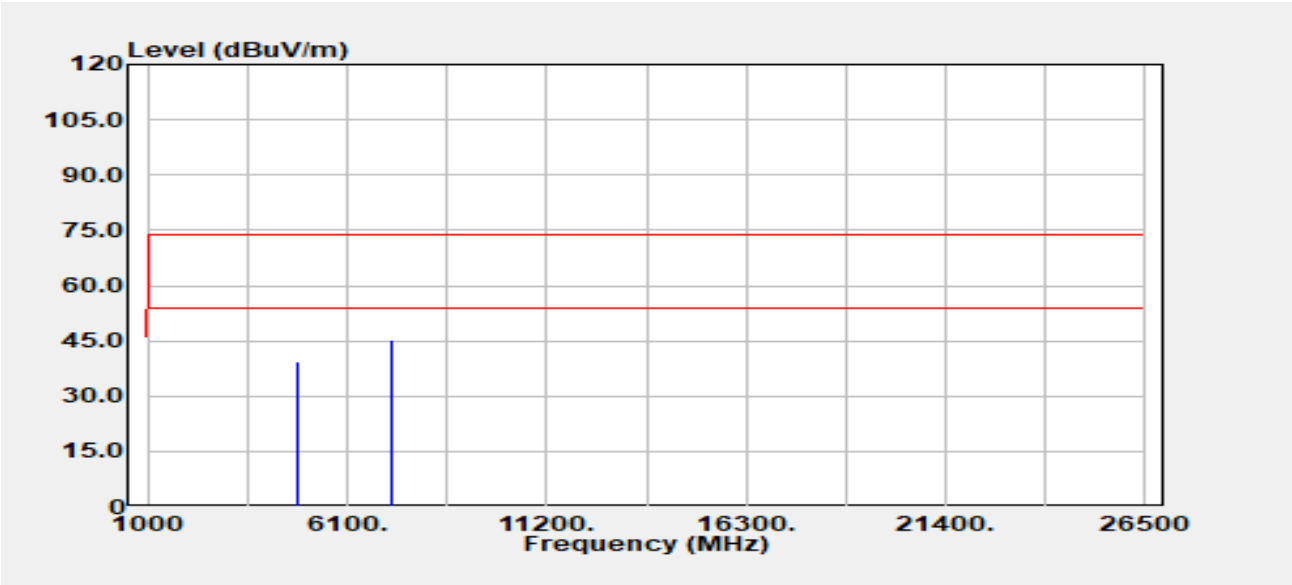
Project No	:TM-2405000018P	Test Date	:2024-05-15
Operation Band	:802.11g	Temp./Humi.	:24.6/57
Frequency	:2412 MHz	Antenna Pol.	:Vertical
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:E2	Test Chamber	: 966A
Setting	:15		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
4824.00	Peak	37.35	2.25	39.60	74.00	-34.40
4824.00	Average	28.36	2.25	30.61	54.00	-23.39
7236.00	Peak	35.96	9.17	45.13	74.00	-28.87
7236.00	Average	28.59	9.17	37.75	54.00	-16.25

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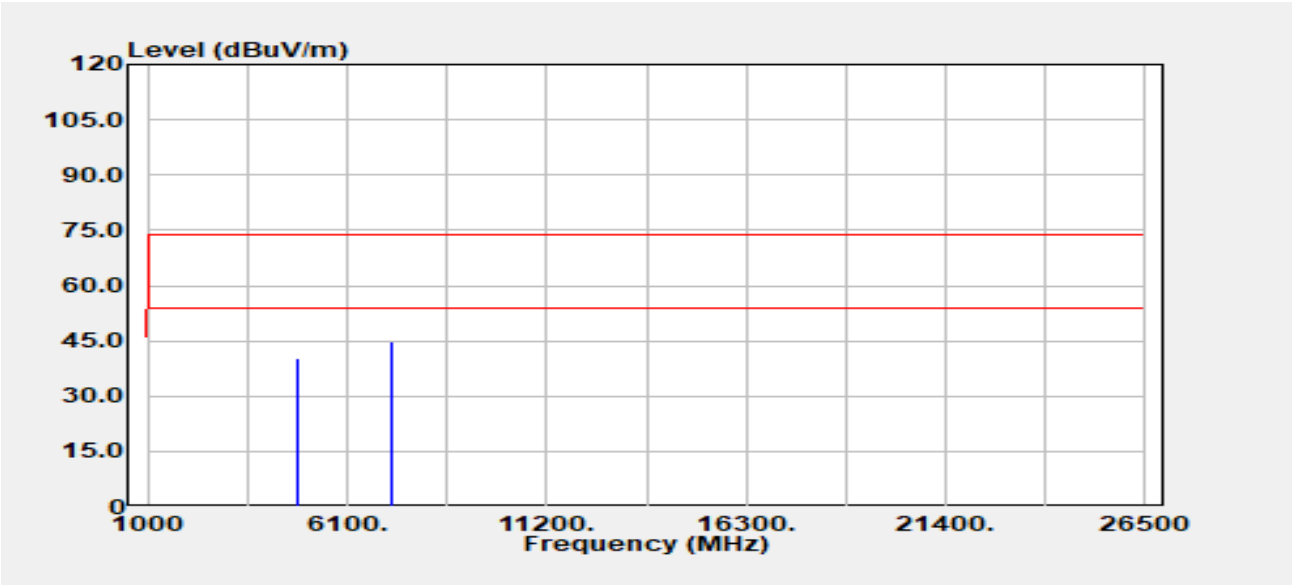
Project No	:TM-2405000018P	Test Date	:2024-05-15
Operation Band	:802.11g	Temp./Humi.	:24.6/57
Frequency	:2412 MHz	Antenna Pol.	:Horizontal
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:E2	Test Chamber	: 966A
Setting	:15		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
4824.00	Peak	38.10	2.25	40.35	74.00	-33.65
4824.00	Average	28.31	2.25	30.56	54.00	-23.44
7236.00	Peak	35.78	9.17	44.95	74.00	-29.05
7236.00	Average	26.53	9.17	35.70	54.00	-18.30

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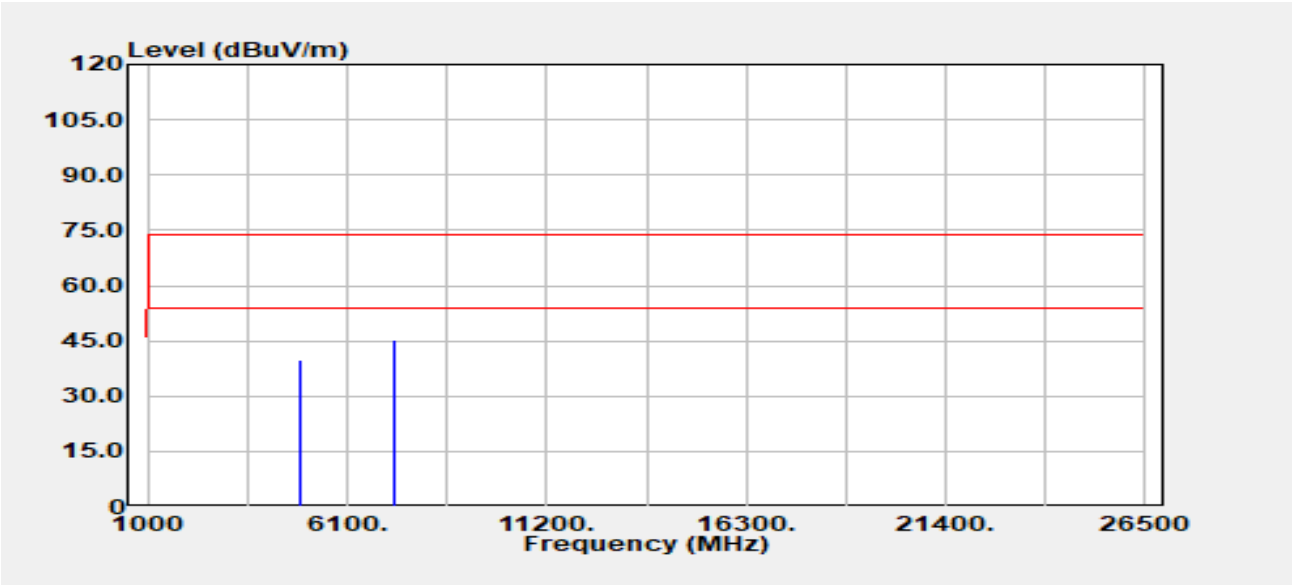
Project No	:TM-2405000018P	Test Date	:2024-05-17
Operation Band	:802.11g	Temp./Humi.	:24.6/57
Frequency	:2437 MHz	Antenna Pol.	:Vertical
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:E2	Test Chamber	: 966A
Setting	:18		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
4874.00	Peak	37.14	2.49	39.64	74.00	-34.36
4874.00	Average	27.32	2.49	29.81	54.00	-24.19
7311.00	Peak	36.31	8.96	45.27	74.00	-28.73
7311.00	Average	29.45	8.96	38.41	54.00	-15.59

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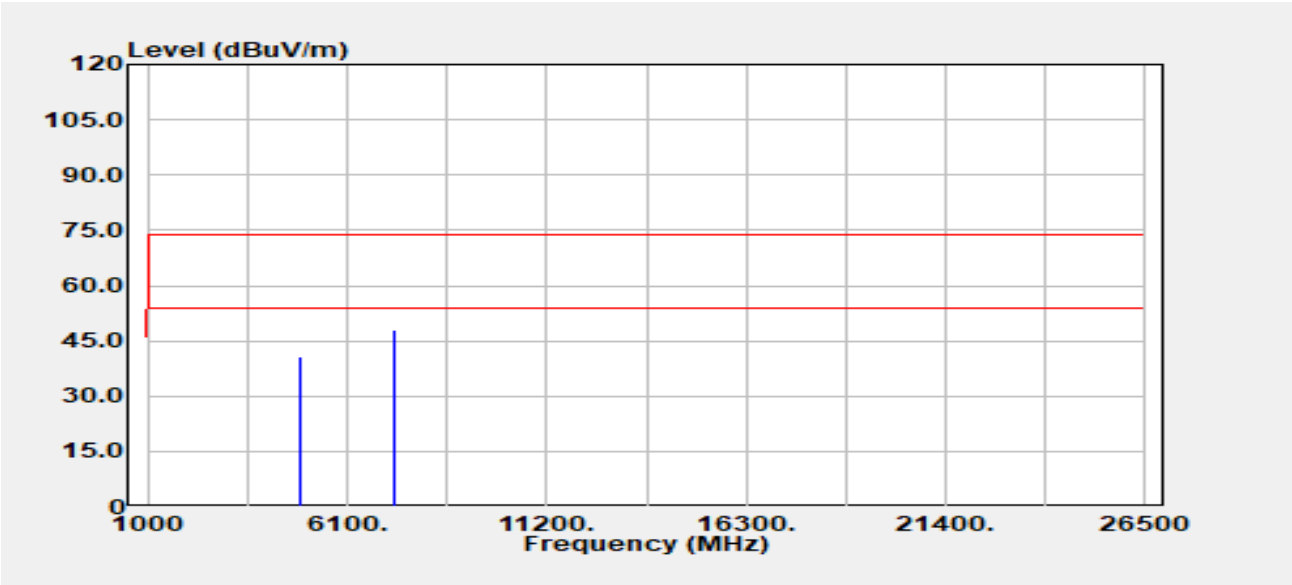
Project No	:TM-2405000018P	Test Date	:2024-05-17
Operation Band	:802.11g	Temp./Humi.	:24.6/57
Frequency	:2437 MHz	Antenna Pol.	:Horizontal
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:E2	Test Chamber	: 966A
Setting	:18		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
4874.00	Peak	38.29	2.49	40.79	74.00	-33.21
4874.00	Average	27.09	2.49	29.58	54.00	-24.42
7311.00	Peak	39.09	8.96	48.06	74.00	-25.94
7311.00	Average	29.07	8.96	38.03	54.00	-15.97

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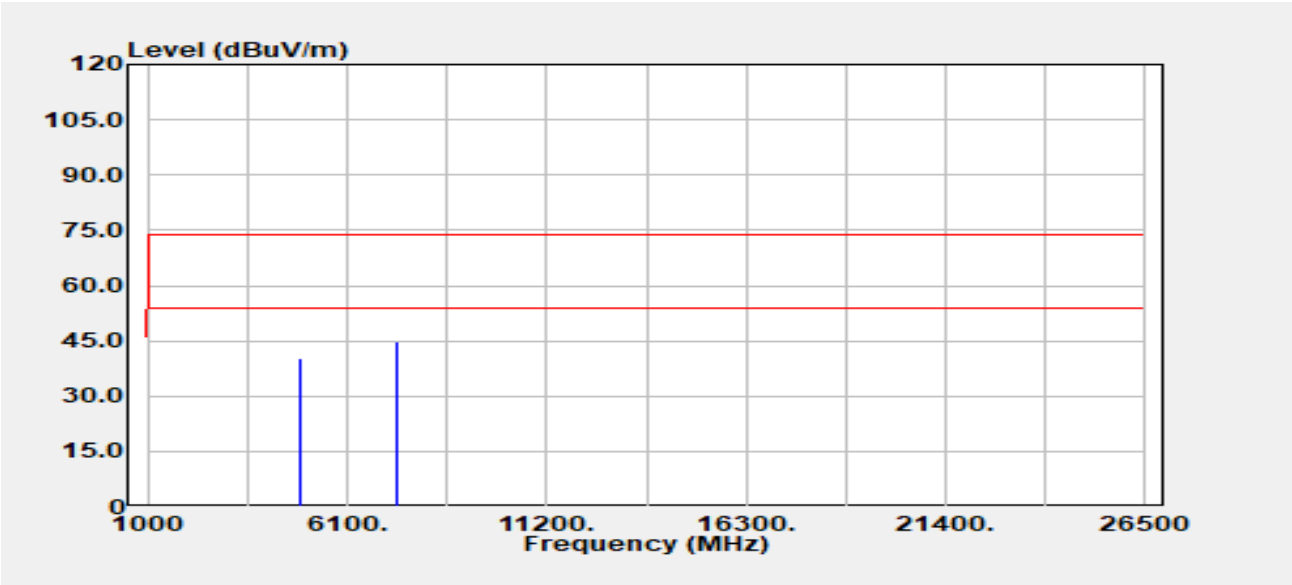
Project No	:TM-2405000018P	Test Date	:2024-05-15
Operation Band	:802.11g	Temp./Humi.	:24.6/57
Frequency	:2462 MHz	Antenna Pol.	:Vertical
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:E2	Test Chamber	: 966A
Setting	:12		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
4924.00	Peak	37.45	2.93	40.38	74.00	-33.62
4924.00	Average	27.44	2.93	30.37	54.00	-23.63
7386.00	Peak	35.69	9.01	44.70	74.00	-29.30
7386.00	Average	27.97	9.01	36.99	54.00	-17.01

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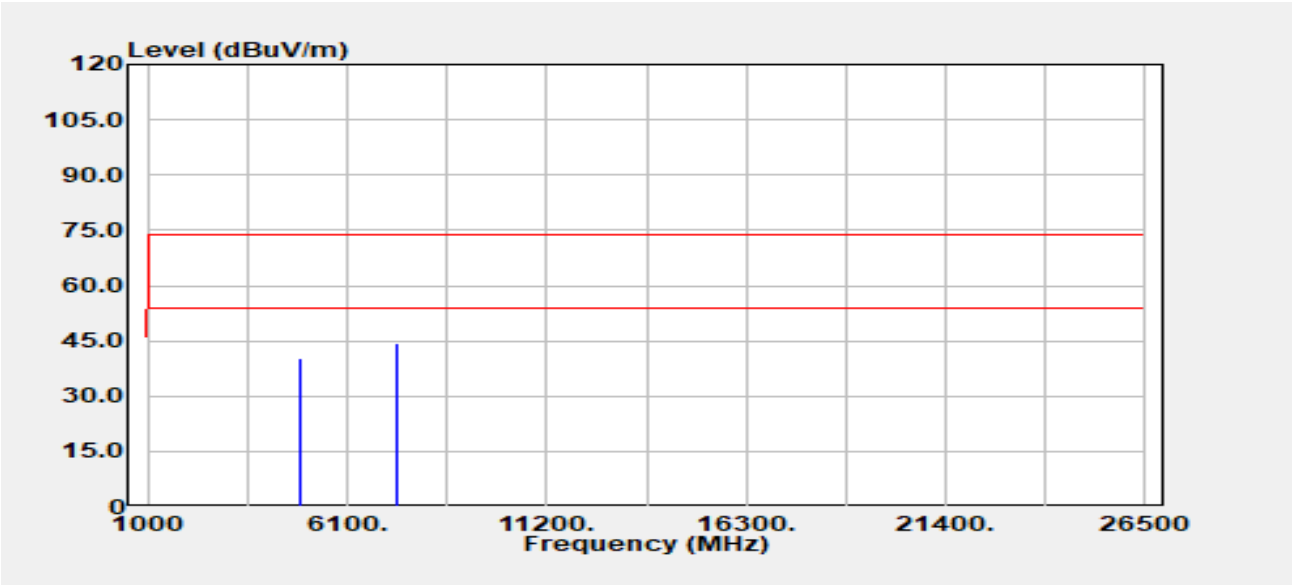
Project No	:TM-2405000018P	Test Date	:2024-05-15
Operation Band	:802.11g	Temp./Humi.	:24.6/57
Frequency	:2462 MHz	Antenna Pol.	:Horizontal
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:E2	Test Chamber	: 966A
Setting	:12		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
4924.00	Peak	37.53	2.93	40.46	74.00	-33.54
4924.00	Average	27.46	2.93	30.39	54.00	-23.61
7386.00	Peak	35.30	9.01	44.32	74.00	-29.68
7386.00	Average	28.56	9.01	37.57	54.00	-16.43

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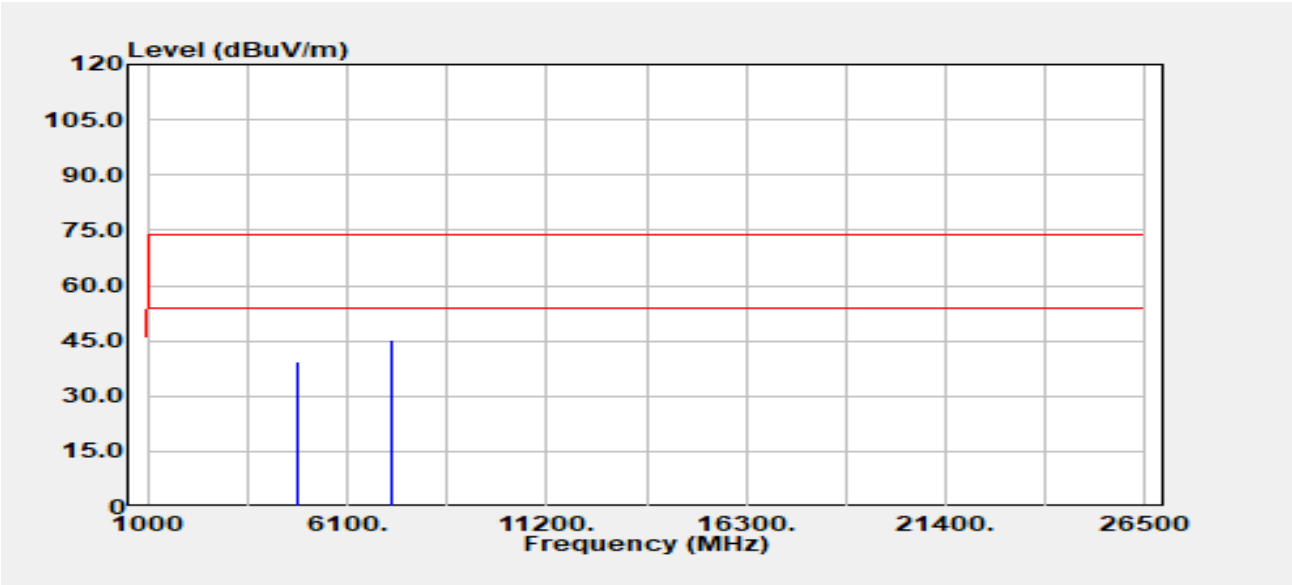
Project No	:TM-2405000018P	Test Date	:2024-05-20
Operation Band	:802.11n20	Temp./Humi.	:24.6/57
Frequency	:2412 MHz	Antenna Pol.	:Vertical
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:E2	Test Chamber	: 966A
Setting	:15		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
4824.00	Peak	37.14	2.25	39.40	74.00	-34.60
4824.00	Average	28.25	2.25	30.50	54.00	-23.50
7236.00	Peak	36.14	9.17	45.31	74.00	-28.69
7236.00	Average	28.02	9.17	37.18	54.00	-16.82

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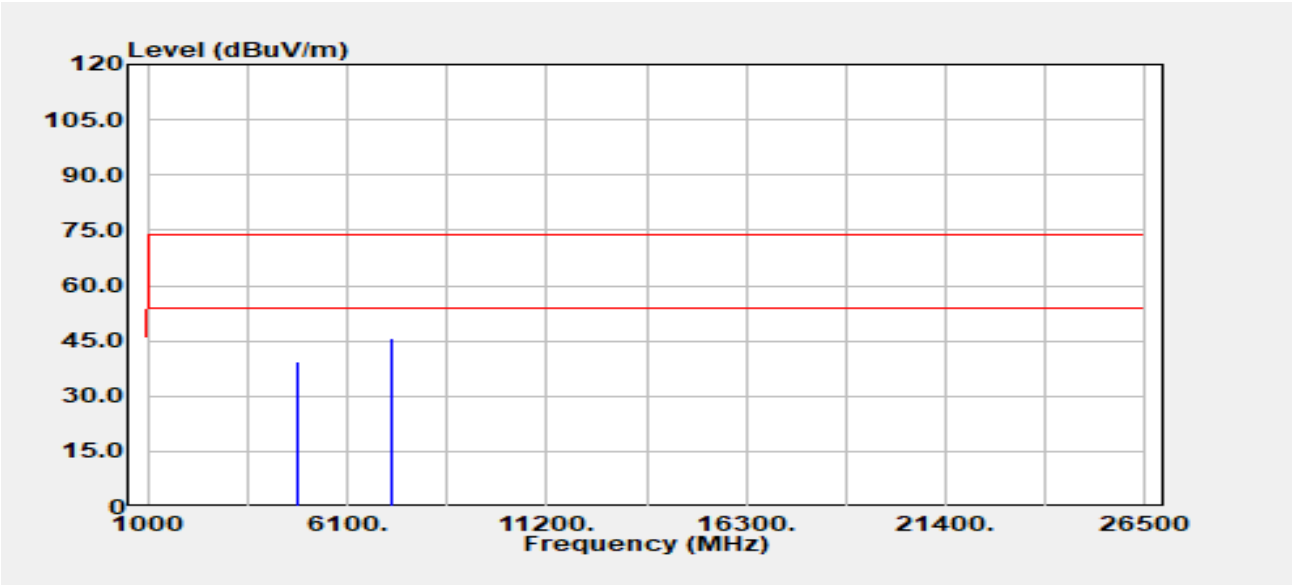
Project No	:TM-2405000018P	Test Date	:2024-05-20
Operation Band	:802.11n20	Temp./Humi.	:24.6/57
Frequency	:2412 MHz	Antenna Pol.	:Horizontal
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:E2	Test Chamber	: 966A
Setting	:15		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
4824.00	Peak	36.99	2.25	39.24	74.00	-34.76
4824.00	Average	28.24	2.25	30.49	54.00	-23.51
7236.00	Peak	36.41	9.17	45.57	74.00	-28.43
7236.00	Average	26.89	9.17	36.05	54.00	-17.95

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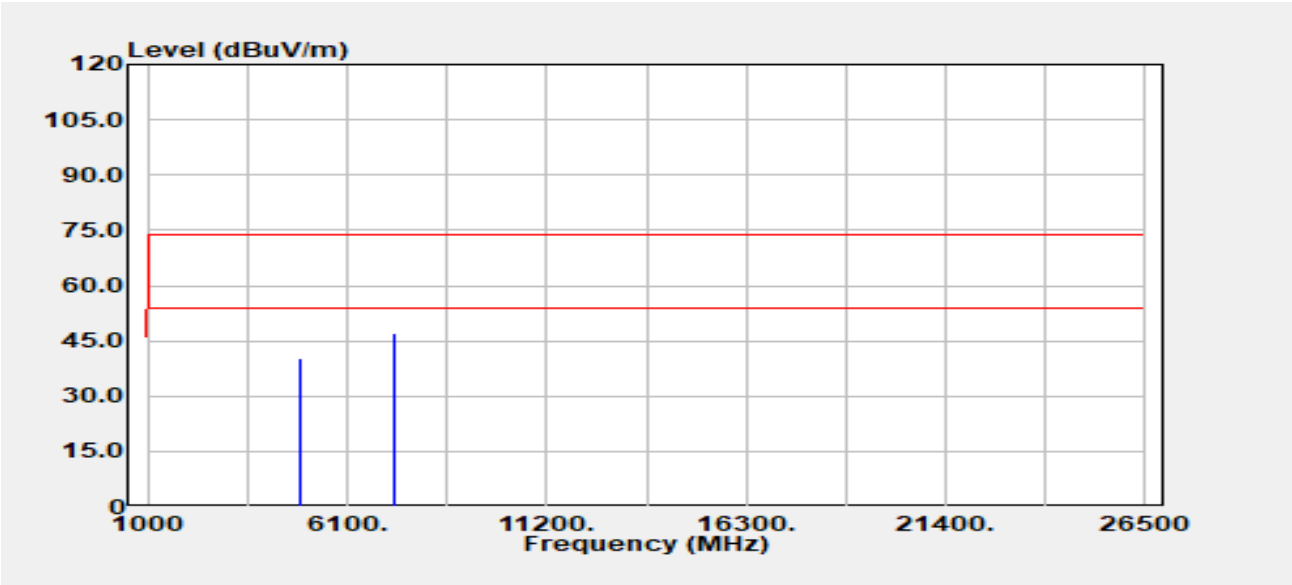
Project No	:TM-2405000018P	Test Date	:2024-05-17
Operation Band	:802.11n20	Temp./Humi.	:24.6/57
Frequency	:2437 MHz	Antenna Pol.	:Vertical
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:E2	Test Chamber	: 966A
Setting	:18		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
4874.00	Peak	37.70	2.49	40.20	74.00	-33.80
4874.00	Average	27.14	2.49	29.63	54.00	-24.37
7311.00	Peak	38.22	8.96	47.18	74.00	-26.82
7311.00	Average	28.89	8.96	37.85	54.00	-16.15

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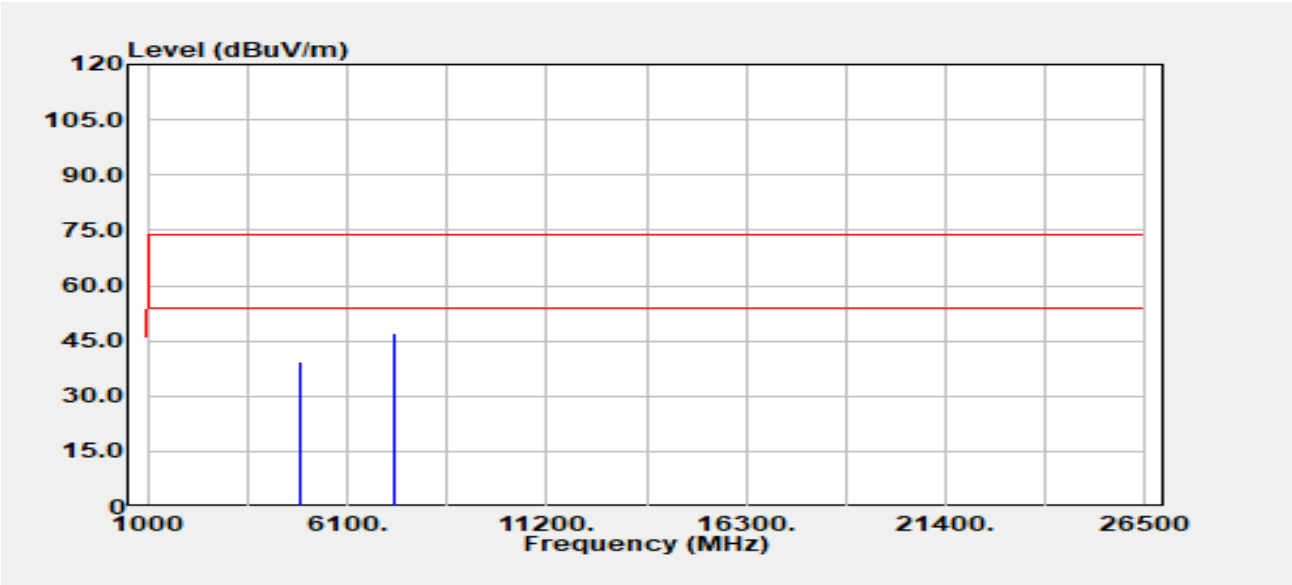
Project No	:TM-2405000018P	Test Date	:2024-05-17
Operation Band	:802.11n20	Temp./Humi.	:24.6/57
Frequency	:2437 MHz	Antenna Pol.	:Horizontal
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:E2	Test Chamber	: 966A
Setting	:18		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
4874.00	Peak	36.93	2.49	39.42	74.00	-34.58
4874.00	Average	27.06	2.49	29.55	54.00	-24.45
7311.00	Peak	38.26	8.96	47.22	74.00	-26.78
7311.00	Average	28.76	8.96	37.72	54.00	-16.28

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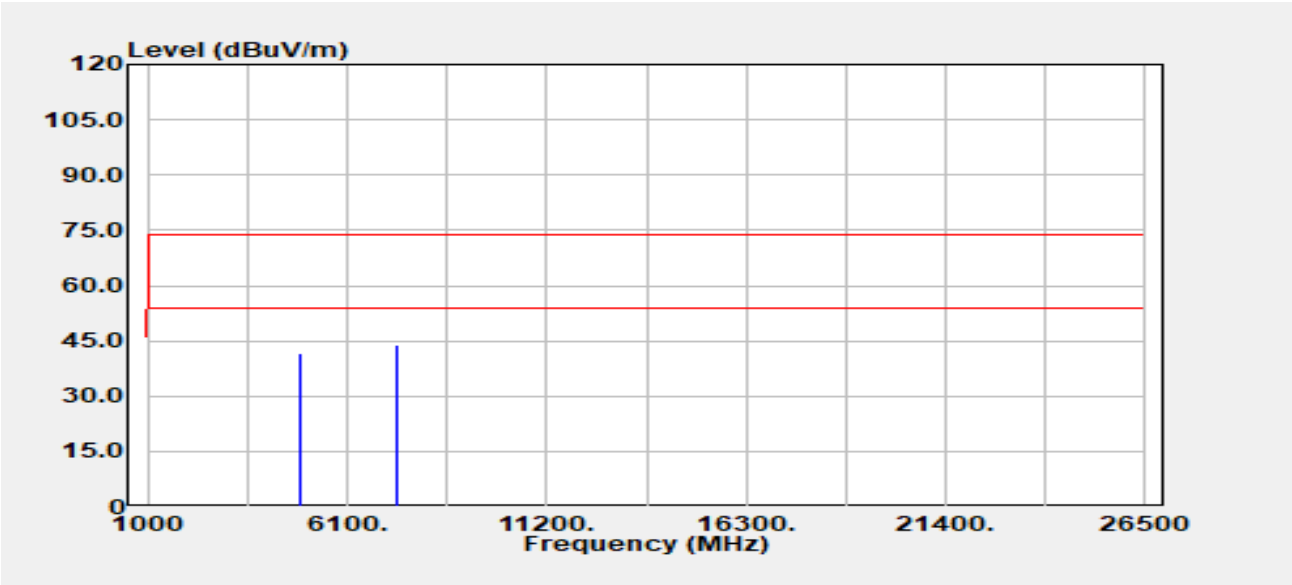
Project No	:TM-2405000018P	Test Date	:2024-05-15
Operation Band	:802.11n20	Temp./Humi.	:24.6/57
Frequency	:2462 MHz	Antenna Pol.	:Vertical
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:E2	Test Chamber	: 966A
Setting	:12		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
4924.00	Peak	38.74	2.93	41.67	74.00	-32.33
4924.00	Average	27.55	2.93	30.48	54.00	-23.52
7386.00	Peak	34.94	9.01	43.95	74.00	-30.05
7386.00	Average	27.89	9.01	36.90	54.00	-17.10

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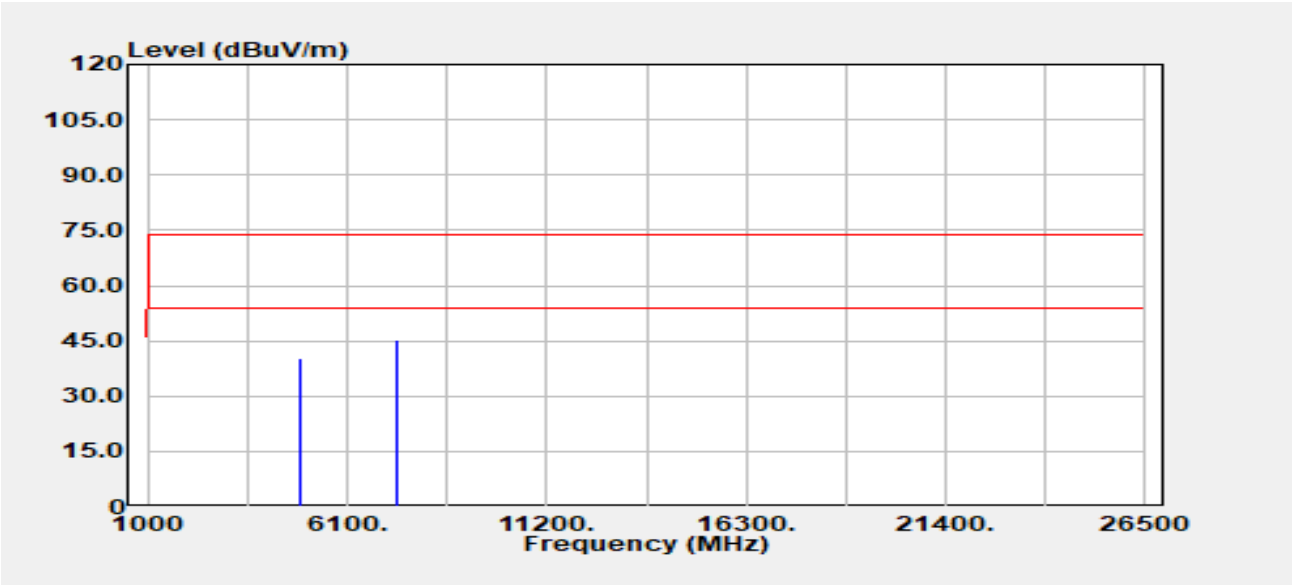
Project No	:TM-2405000018P	Test Date	:2024-05-15
Operation Band	:802.11n20	Temp./Humi.	:24.6/57
Frequency	:2462 MHz	Antenna Pol.	:Horizontal
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:E2	Test Chamber	: 966A
Setting	:12		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
4924.00	Peak	37.38	2.93	40.31	74.00	-33.69
4924.00	Average	27.43	2.93	30.36	54.00	-23.64
7386.00	Peak	36.13	9.01	45.14	74.00	-28.86
7386.00	Average	29.10	9.01	38.11	54.00	-15.89

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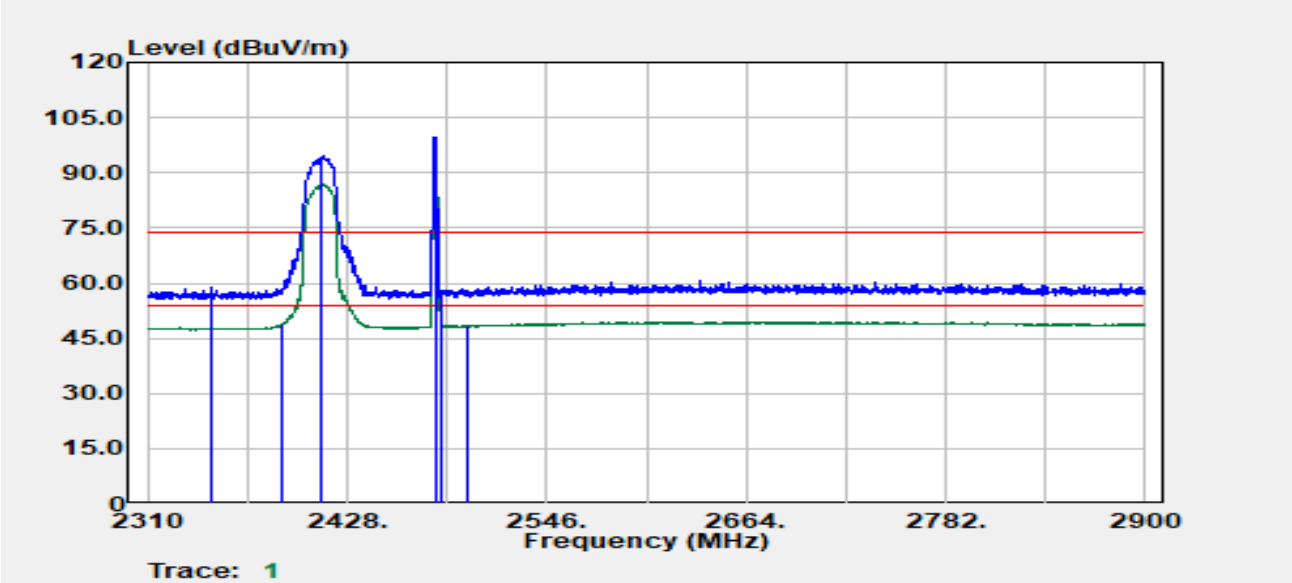
Co-location

Project No	:TM-2405000018P	Test Date	:2024-05-20
Operation Band	:802.11n20_BT BR	Temp./Humi.	:24.5/57
Frequency	:2412_2480MHz	Antenna Pol.	:Vertical
Operation Mode	:Bandedge	Engineer	:Tony Chao
EUT Pol	:E2	Test Chamber	: 966A
Setting	:15_0		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2347.41	Peak	52.57	6.21	58.78	74.00	-15.22
2389.77	Average	42.48	6.28	48.75	54.00	-5.25
2412.00	Peak	90.22	6.31	96.52	- -	- -
2412.00	Average	82.58	6.31	88.89	- -	- -
2480.00	Peak	93.07	6.67	99.74	- -	- -
2480.00	Average	92.98	6.67	99.64	- -	- -
2483.50	Peak	51.69	6.71	58.40	74.00	-15.60
2499.27	Average	41.51	6.84	48.35	54.00	-5.65

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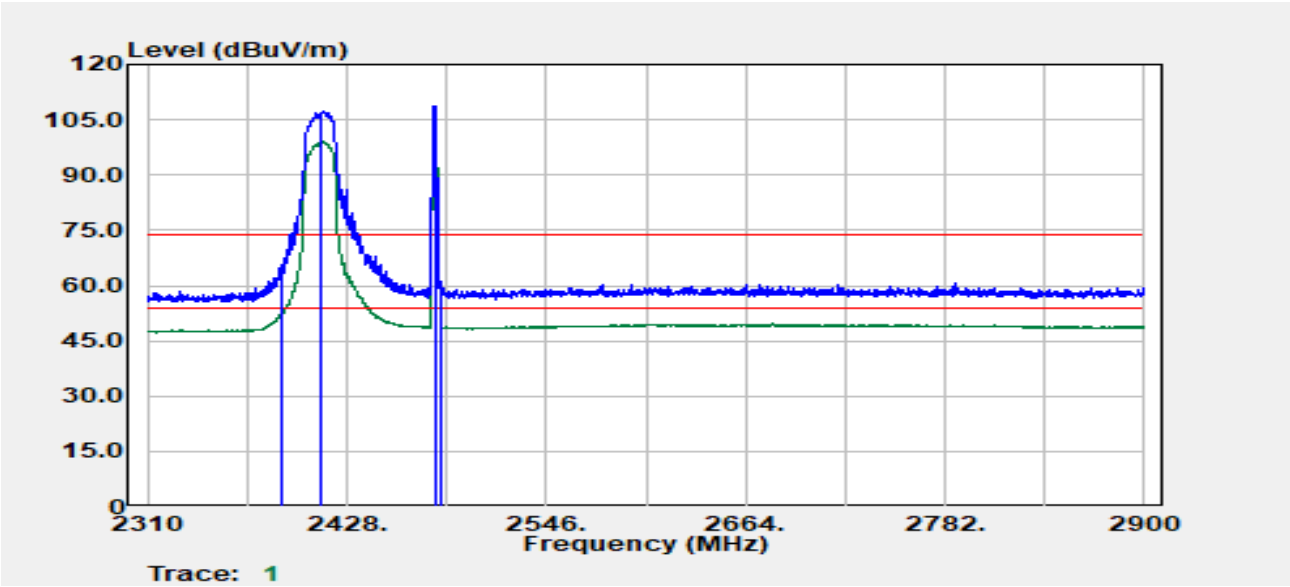
Project No	:TM-2405000018P	Test Date	:2024-05-20
Operation Band	:802.11n20_BT BR	Temp./Humi.	:24.5/57
Frequency	:2412_2480MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Tony Chao
EUT Pol	:E2	Test Chamber	: 966A
Setting	:15_0		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2390.00	Peak	59.28	6.28	65.56	74.00	-8.44
2390.00	Average	46.19	6.28	52.47	54.00	-1.53
2412.00	Peak	100.96	6.31	107.26	- -	- -
2412.00	Average	92.68	6.31	98.99	- -	- -
2480.00	Peak	102.21	6.67	108.88	- -	- -
2480.00	Average	101.83	6.67	108.49	- -	- -
2483.50	Peak	53.56	6.71	60.28	74.00	-13.72
2483.50	Average	44.06	6.71	50.78	54.00	-3.22

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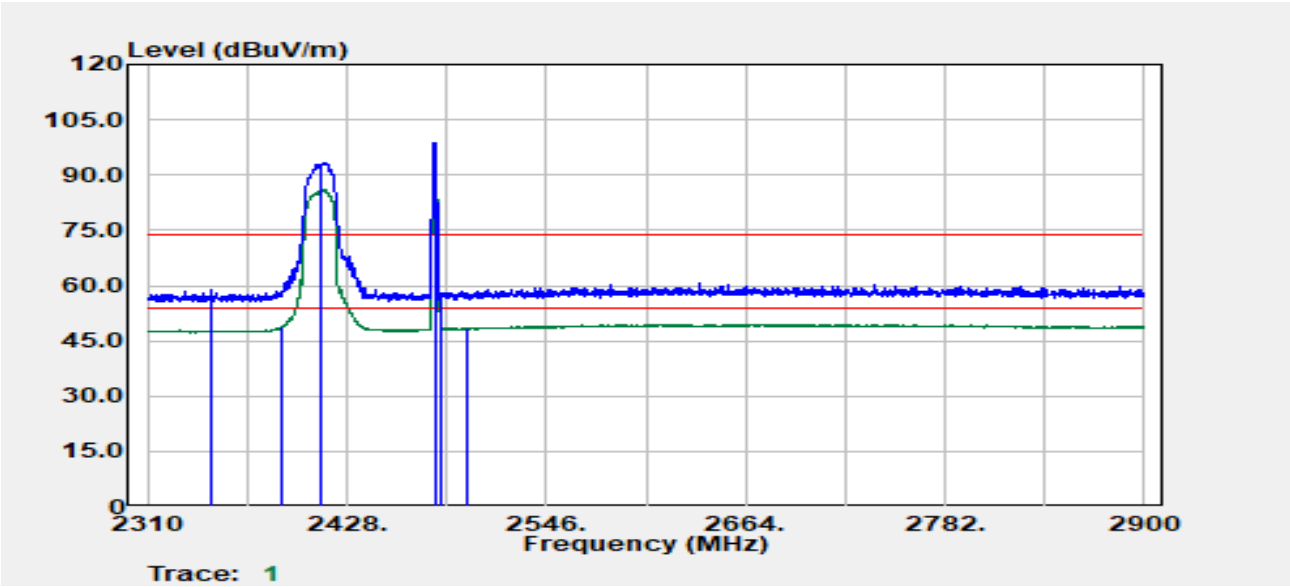
Project No	:TM-2405000018P	Test Date	:2024-05-20
Operation Band	:802.11n20_BLE 1M	Temp./Humi.	:24.5/57
Frequency	:2412_2480 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Tony Chao
EUT Pol	:E2	Test Chamber	: 966A
Setting	:15_default		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2347.41	Peak	52.57	6.21	58.78	74.00	-15.22
2389.77	Average	42.48	6.28	48.75	54.00	-5.25
2412.00	Peak	90.09	6.31	96.39	- -	- -
2412.00	Average	82.63	6.31	88.94	- -	- -
2480.00	Peak	91.83	6.67	98.50	- -	- -
2480.00	Average	91.48	6.67	98.14	- -	- -
2483.50	Peak	51.69	6.71	58.40	74.00	-15.60
2499.27	Average	41.51	6.84	48.35	54.00	-5.65

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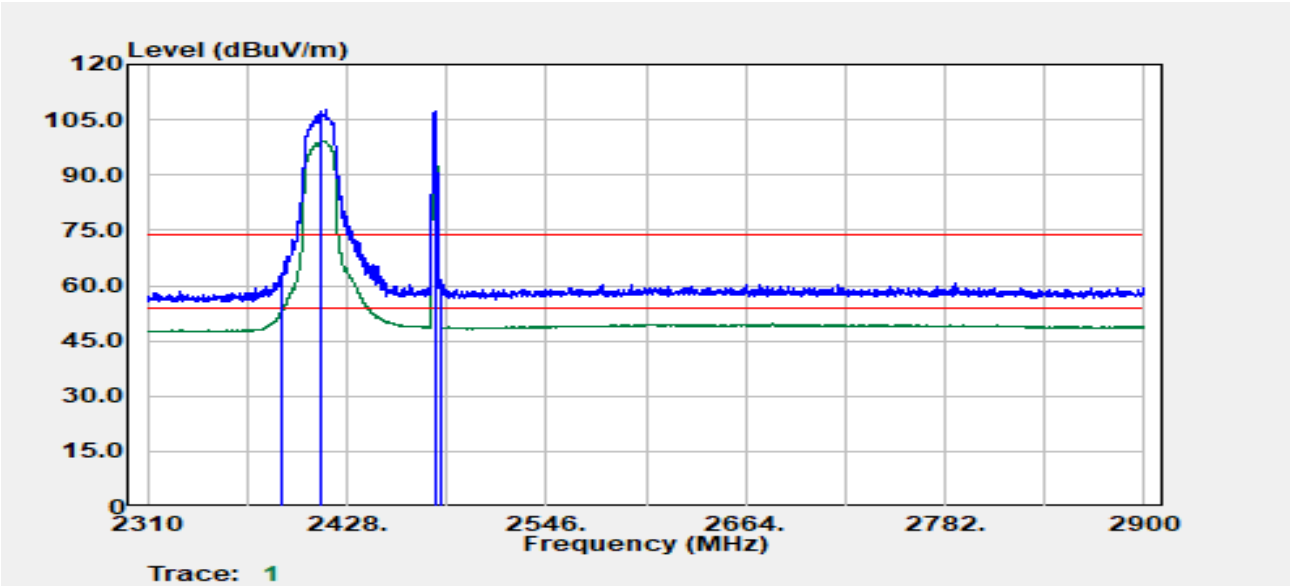
Project No	:TM-2405000018P	Test Date	:2024-05-20
Operation Band	:802.11n20_BLE 1M	Temp./Humi.	:24.5/57
Frequency	:2412_2480 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Tony Chao
EUT Pol	:E2	Test Chamber	: 966A
Setting	:15_default		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2390.00	Peak	57.22	6.28	63.50	74.00	-10.50
2390.00	Average	47.19	6.28	53.47	54.00	-0.53
2412.00	Peak	101.58	6.31	107.88	- -	- -
2412.00	Average	92.84	6.31	99.15	- -	- -
2480.00	Peak	101.22	6.67	107.88	- -	- -
2480.00	Average	99.39	6.67	106.06	- -	- -
2483.50	Peak	55.08	6.71	61.80	74.00	-12.20
2483.50	Average	43.39	6.71	50.11	54.00	-3.89

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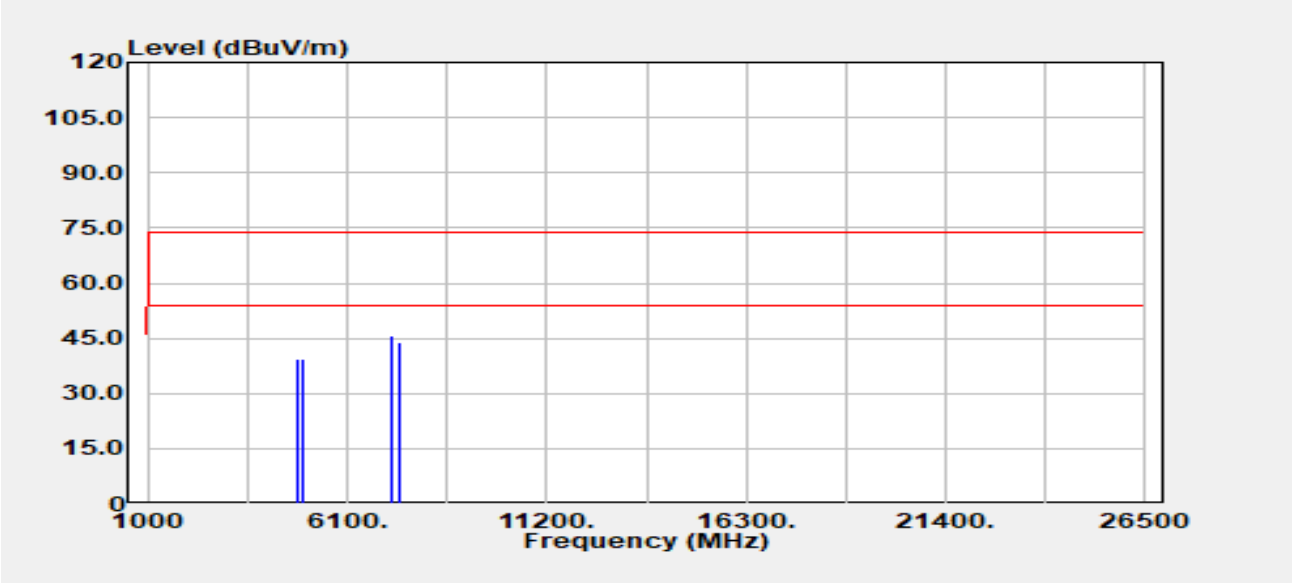
Project No	:TM-2405000018P	Test Date	:2024-05-20
Operation Band	:802.11n20_BT BR	Temp./Humi.	:24.5/57
Frequency	:2412_2480MHz	Antenna Pol.	:Vertical
Operation Mode	:TX	Engineer	:Tony Chao
EUT Pol	:E2	Test Chamber	: 966A
Setting	:15_0		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
4824.00	Peak	37.19	2.25	39.44	74.00	-34.56
4824.00	Average	28.51	2.25	30.76	54.00	-23.24
4960.00	Peak	36.26	3.21	39.47	74.00	-34.53
4960.00	Average	27.89	3.21	31.10	54.00	-22.90
7236.00	Peak	36.48	9.17	45.64	74.00	-28.36
7236.00	Average	29.02	9.17	38.18	54.00	-15.82
7440.00	Peak	34.97	8.92	43.89	74.00	-30.11
7440.00	Average	26.45	8.92	35.37	54.00	-18.63

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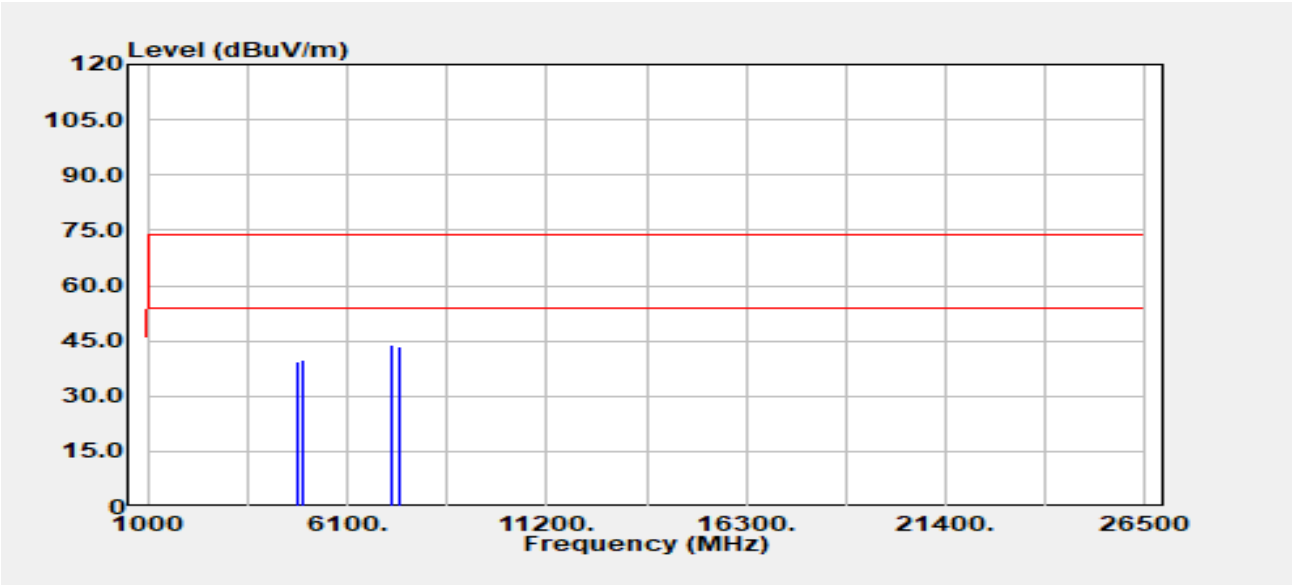
Project No	:TM-2405000018P	Test Date	:2024-05-20
Operation Band	:802.11n20_BT BR	Temp./Humi.	:24.5/57
Frequency	:2412_2480MHz	Antenna Pol.	:Horizontal
Operation Mode	:TX	Engineer	:Tony Chao
EUT Pol	:E2	Test Chamber	: 966A
Setting	:15_0		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
4824.00	Peak	37.30	2.25	39.55	74.00	-34.45
4824.00	Average	28.28	2.25	30.53	54.00	-23.47
4960.00	Peak	36.64	3.21	39.85	74.00	-34.15
4960.00	Average	27.92	3.21	31.13	54.00	-22.87
7236.00	Peak	34.82	9.17	43.99	74.00	-30.01
7236.00	Average	27.76	9.17	36.93	54.00	-17.07
7440.00	Peak	34.67	8.92	43.59	74.00	-30.41
7440.00	Average	26.33	8.92	35.25	54.00	-18.75

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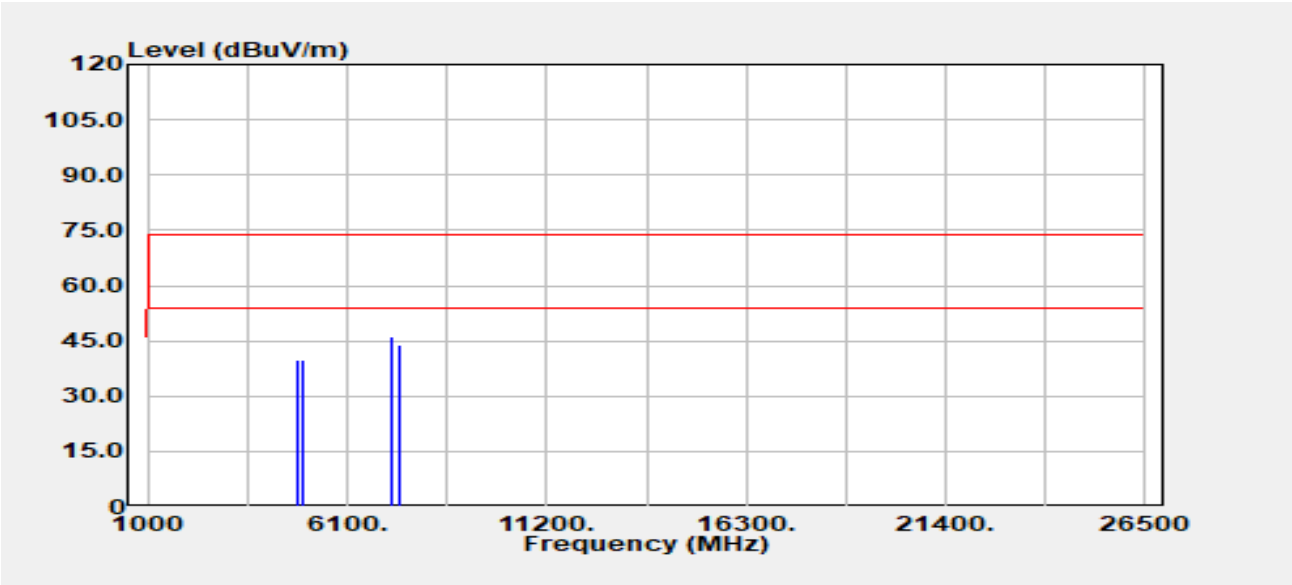
Project No	:TM-2405000018P	Test Date	:2024-05-20
Operation Band	:802.11n20_BLE 1M	Temp./Humi.	:24.5/57
Frequency	:2412_2480 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:TX	Engineer	:Tony Chao
EUT Pol	:E2	Test Chamber	: 966A
Setting	:15_default		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
4824.00	Peak	37.80	2.25	40.05	74.00	-33.95
4824.00	Average	28.19	2.25	30.44	54.00	-23.56
4960.00	Peak	36.76	3.21	39.97	74.00	-34.03
4960.00	Average	27.59	3.21	30.80	54.00	-23.20
7236.00	Peak	37.20	9.17	46.36	74.00	-27.64
7236.00	Average	26.47	9.17	35.64	54.00	-18.36
7440.00	Peak	34.85	8.92	43.77	74.00	-30.23
7440.00	Average	28.26	8.92	37.18	54.00	-16.82

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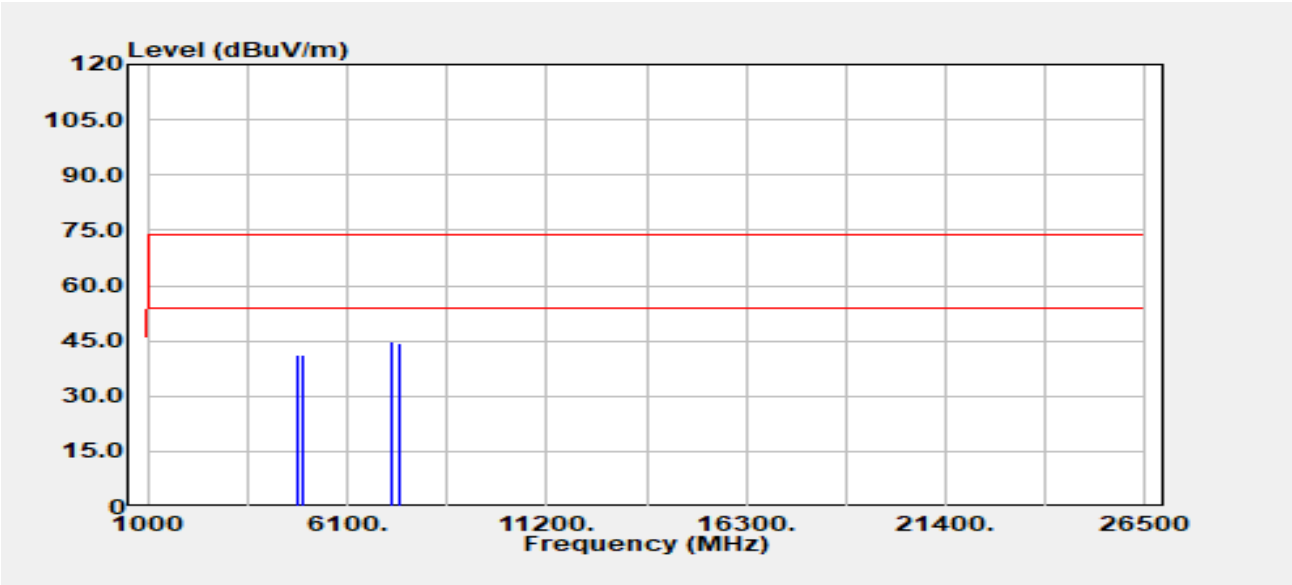
Project No	:TM-2405000018P	Test Date	:2024-05-20
Operation Band	:802.11n20_BLE 1M	Temp./Humi.	:24.5/57
Frequency	:2412_2480 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:TX	Engineer	:Tony Chao
EUT Pol	:E2	Test Chamber	: 966A
Setting	:15_default		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
4824.00	Peak	38.83	2.25	41.08	74.00	-32.92
4824.00	Average	28.72	2.25	30.97	54.00	-23.03
4960.00	Peak	38.04	3.21	41.26	74.00	-32.74
4960.00	Average	28.37	3.21	31.58	54.00	-22.42
7236.00	Peak	35.87	9.17	45.03	74.00	-28.97
7236.00	Average	27.54	9.17	36.71	54.00	-17.29
7440.00	Peak	35.61	8.92	44.53	74.00	-29.47
7440.00	Average	28.63	8.92	37.55	54.00	-16.45

- End of Test Report -

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