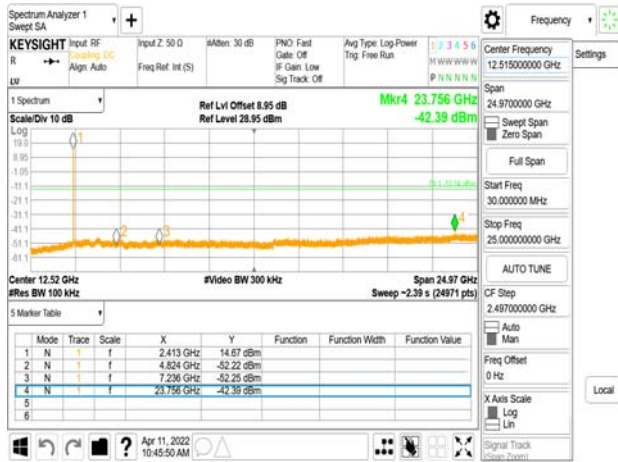
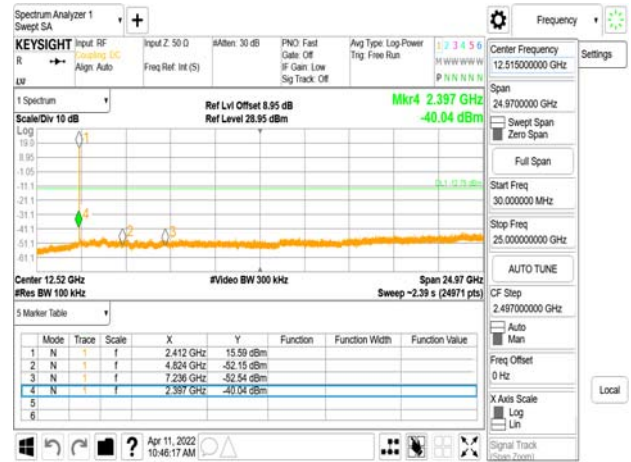


802.11b\_20MHz\_Chain0\_2412MHz



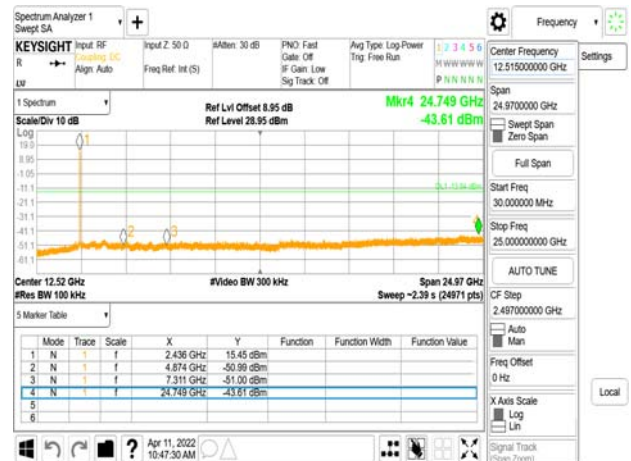
802.11b\_20MHz\_Chain1\_2412MHz



802.11b\_20MHz\_Chain0\_2437MHz



802.11b\_20MHz\_Chain1\_2437MHz



802.11b\_20MHz\_Chain0\_2462MHz



802.11b\_20MHz\_Chain1\_2462MHz

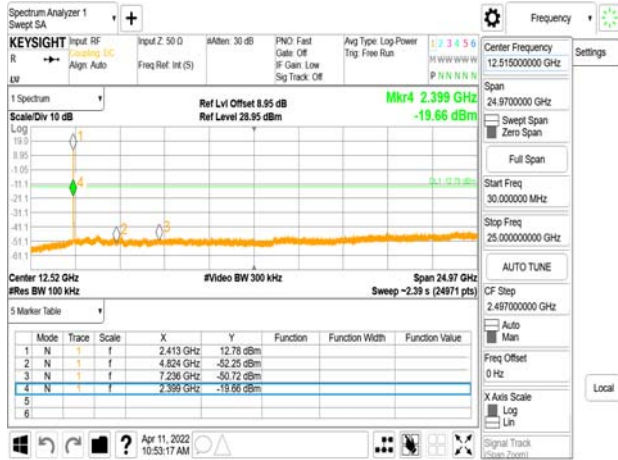


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802.11g\_20MHz\_Chain0\_2412MHz



802.11g\_20MHz\_Chain1\_2412MHz



802.11g\_20MHz\_Chain0\_2437MHz



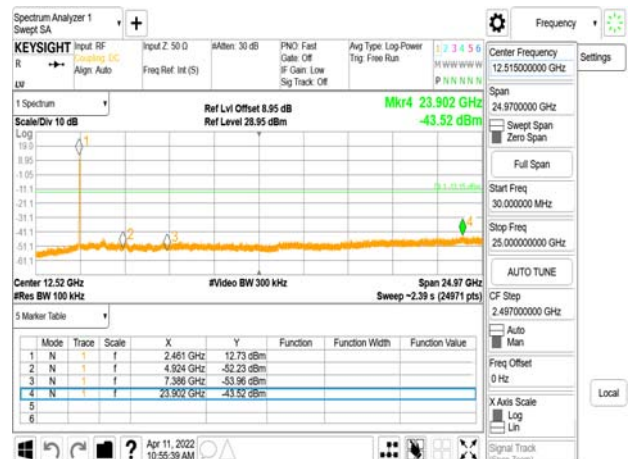
802.11g\_20MHz\_Chain1\_2437MHz



802.11g\_20MHz\_Chain0\_2462MHz



802.11g\_20MHz\_Chain1\_2462MHz



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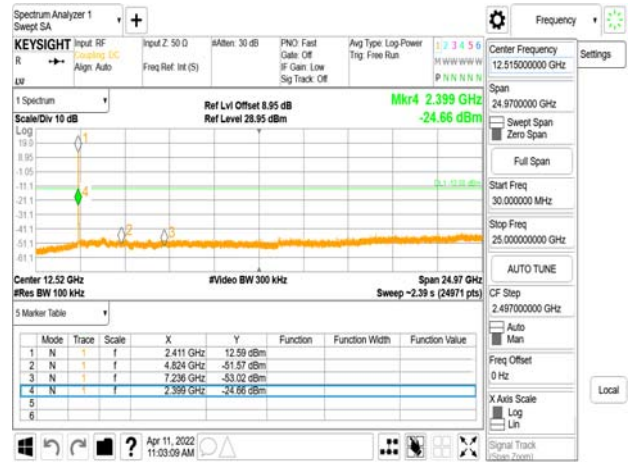
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802.11n\_20MHz\_Chain0\_2412MHz



802.11n\_20MHz\_Chain1\_2412MHz



802.11n\_20MHz\_Chain0\_2437MHz



802.11n\_20MHz\_Chain1\_2437MHz



802.11n\_20MHz\_Chain0\_2462MHz



802.11n\_20MHz\_Chain1\_2462MHz

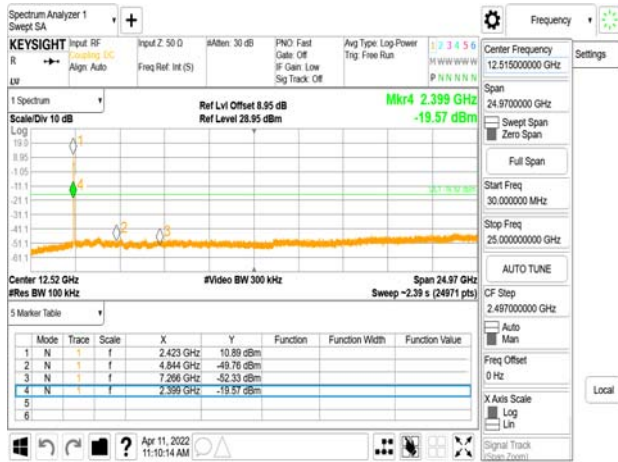


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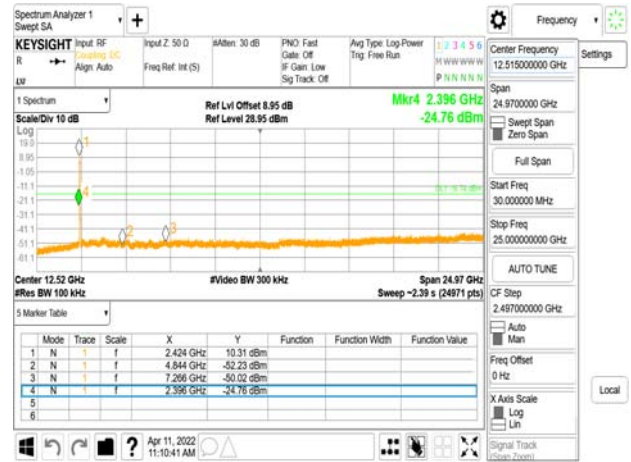
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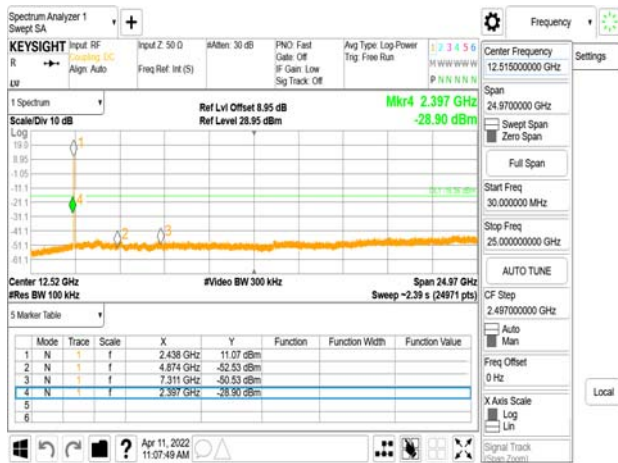
802.11n\_40MHz\_Chain0\_2422MHz



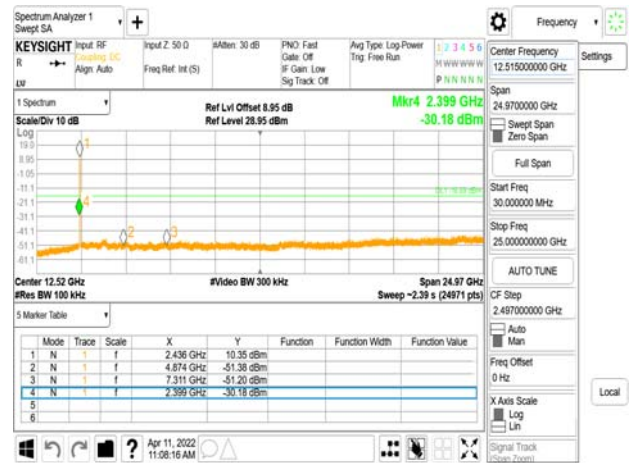
802.11n\_40MHz\_Chain1\_2422MHz



802.11n\_40MHz\_Chain0\_2437MHz



802.11n\_40MHz\_Chain1\_2437MHz



802.11n\_40MHz\_Chain0\_2452MHz



802.11n\_40MHz\_Chain1\_2452MHz

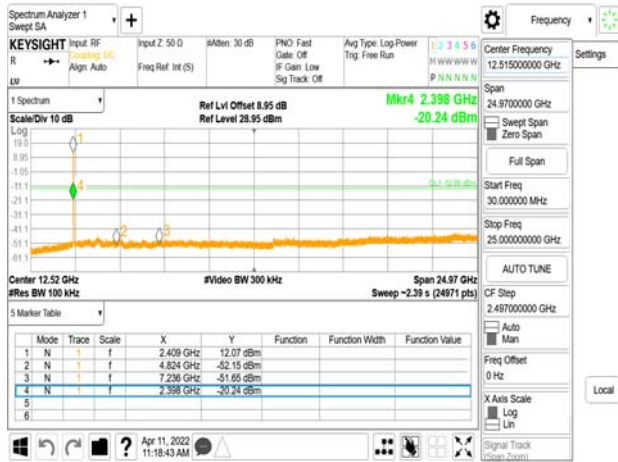


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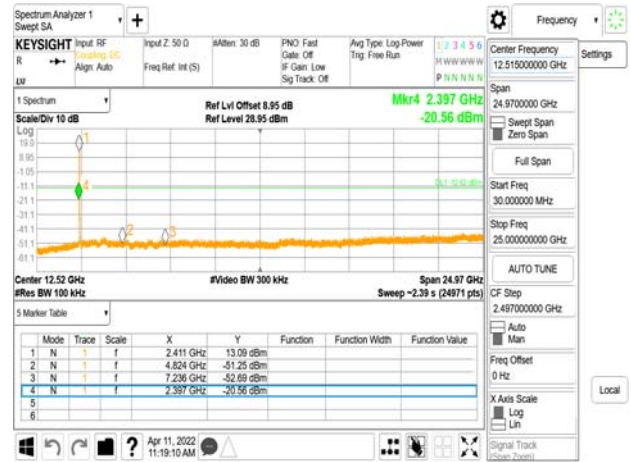
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802.11ax\_20MHz\_Chain0\_2412MHz



802.11ax\_20MHz\_Chain1\_2412MHz



802.11ax\_20MHz\_Chain0\_2437MHz



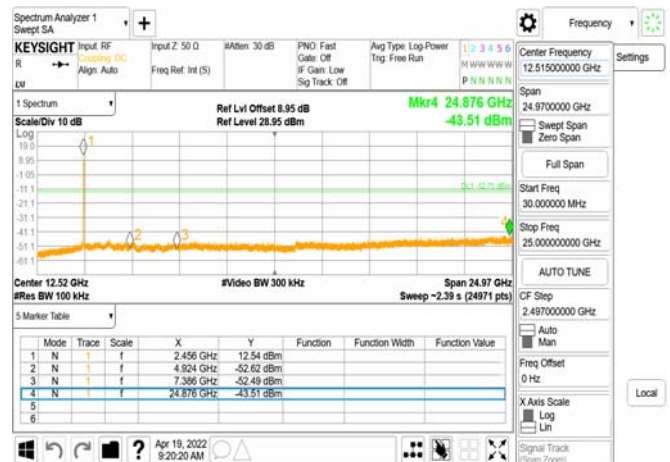
802.11ax\_20MHz\_Chain1\_2437MHz



802.11ax\_20MHz\_Chain0\_2462MHz



802.11ax\_20MHz\_Chain1\_2462MHz

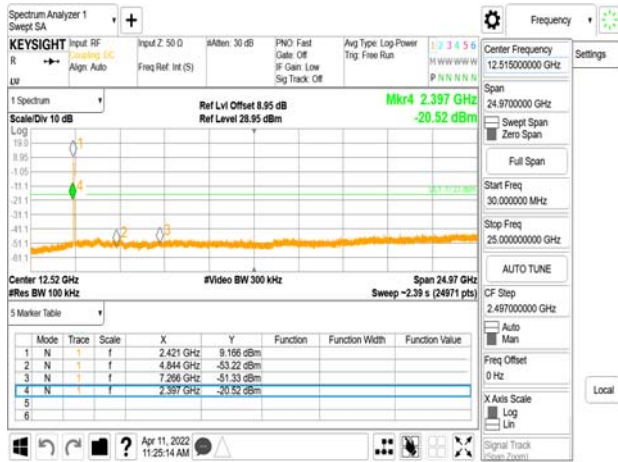


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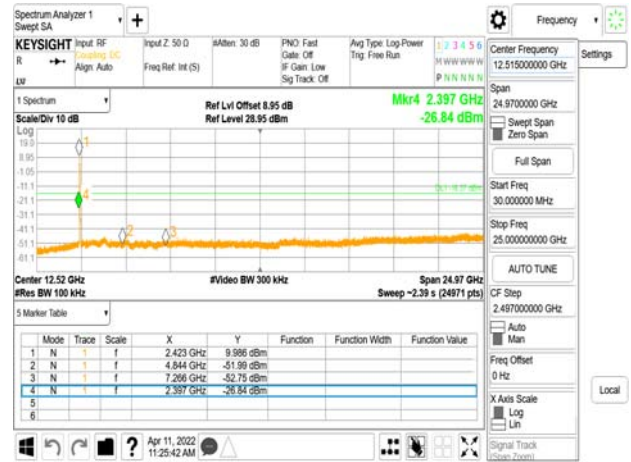
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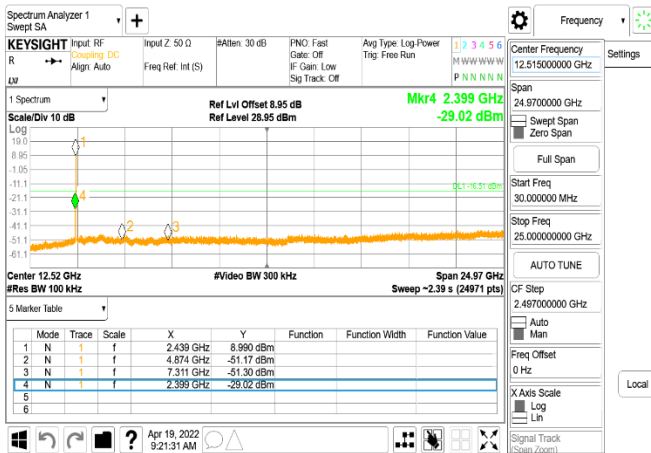
802.11ax\_40MHz\_Chain0\_2422MHz



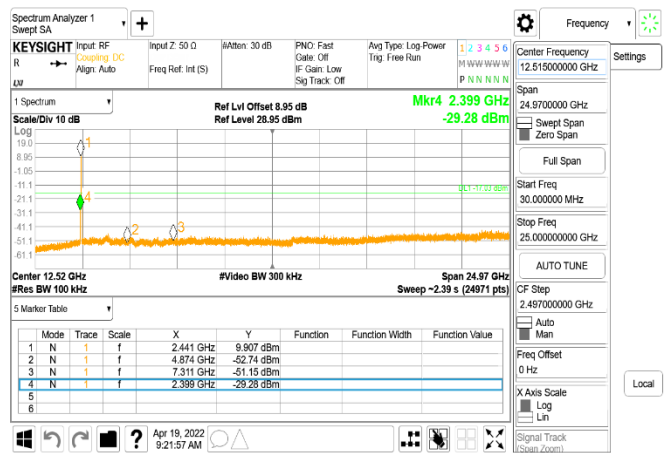
802.11ax\_40MHz\_Chain1\_2422MHz



802.11ax\_40MHz\_Chain0\_2437MHz



802.11ax\_40MHz\_Chain1\_2437MHz



802.11ax\_40MHz\_Chain0\_2452MHz



802.11ax\_40MHz\_Chain1\_2452MHz



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## 11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

### 11.1 Standard Applicable

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. In addition, radiated emissions which fall in the restricted bands must also comply with the §15.209 limit as below.

And according to §15.33(a) (1), for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

**Note:**

1. The lower limit shall apply at the transition frequencies.

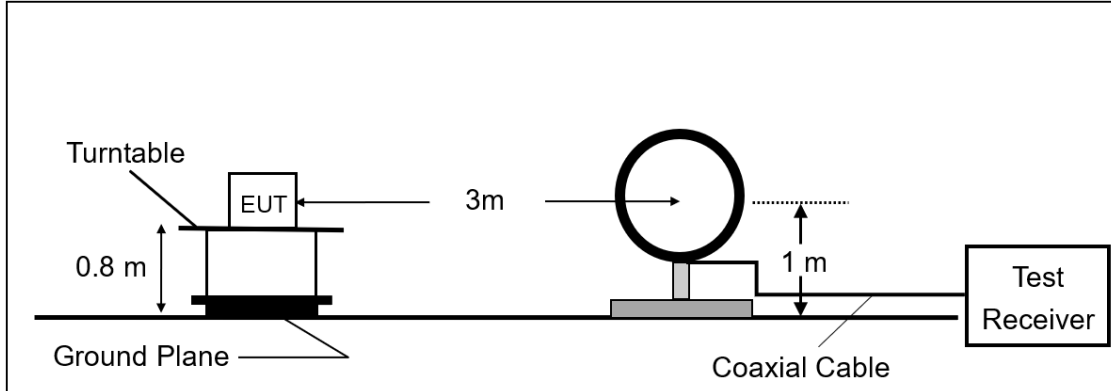
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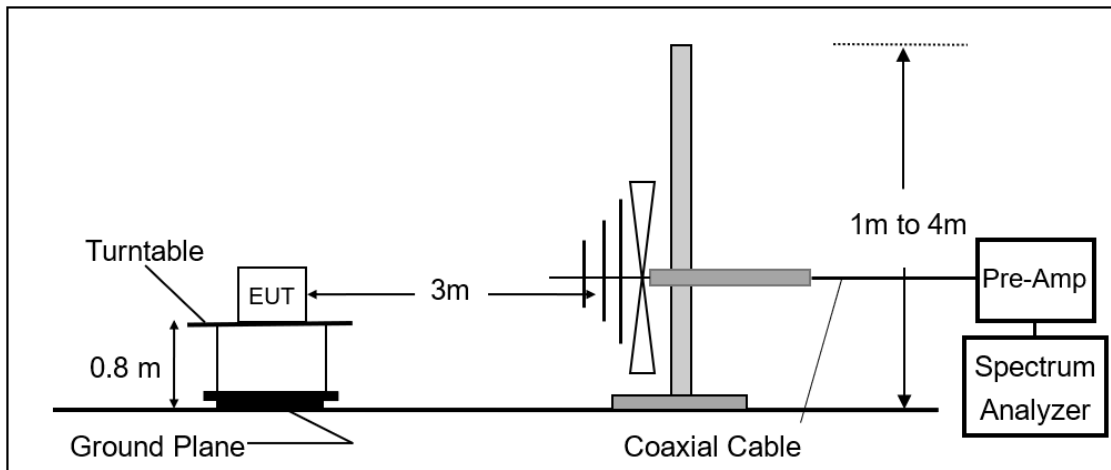
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## 11.2 Test Setup

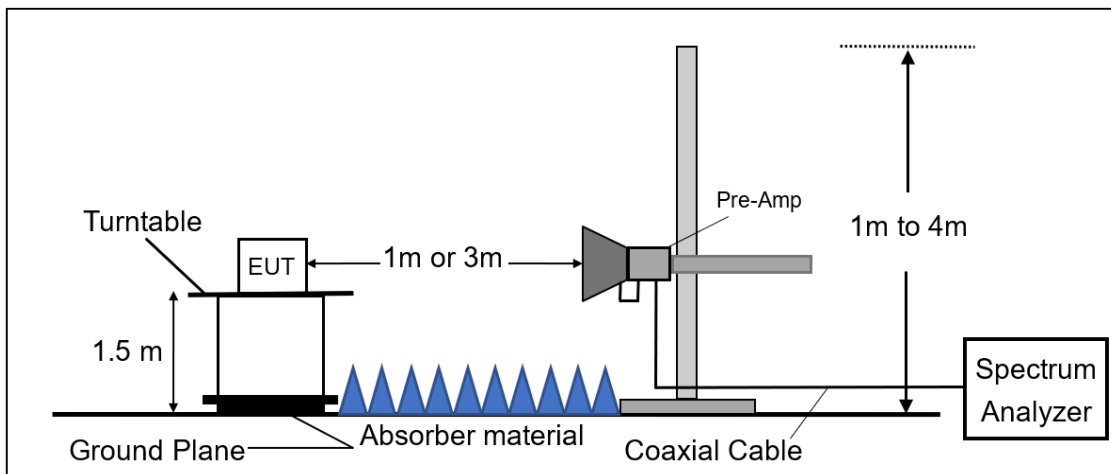
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



(B) Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



(C) Radiated Emission Test Set-Up, Frequency Above 1GHz.



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### 11.3 Measurement Procedure

1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
2. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz.
6. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Maximum Emission Measurements at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Emission Measurements at frequency above 1 GHz.
9. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.
10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
12. Repeat above procedures until all default test channel measured were complete.

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### 11.4 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

**Where** *FS = Field Strength*

*CL = Cable Attenuation Factor (Cable Loss)*

*RA = Reading Amplitude*

*AG = Amplifier Gain*

*AF = Antenna Factor*

*The limit of the emission level is expressed in dBuV/m, which converts  $20 \cdot \log(uV/m)$*

*Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)*

*Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)*

### 11.5 Test Results of Radiated Spurious Emissions from 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

### 11.6 Measurement Result

**Note:**

1. *Refer to next page spectrum analyzer data chart and tabular data sheets.*
2. *Measurements are completed at peak and average level, the mark of average is the highest emission in restricted bands*

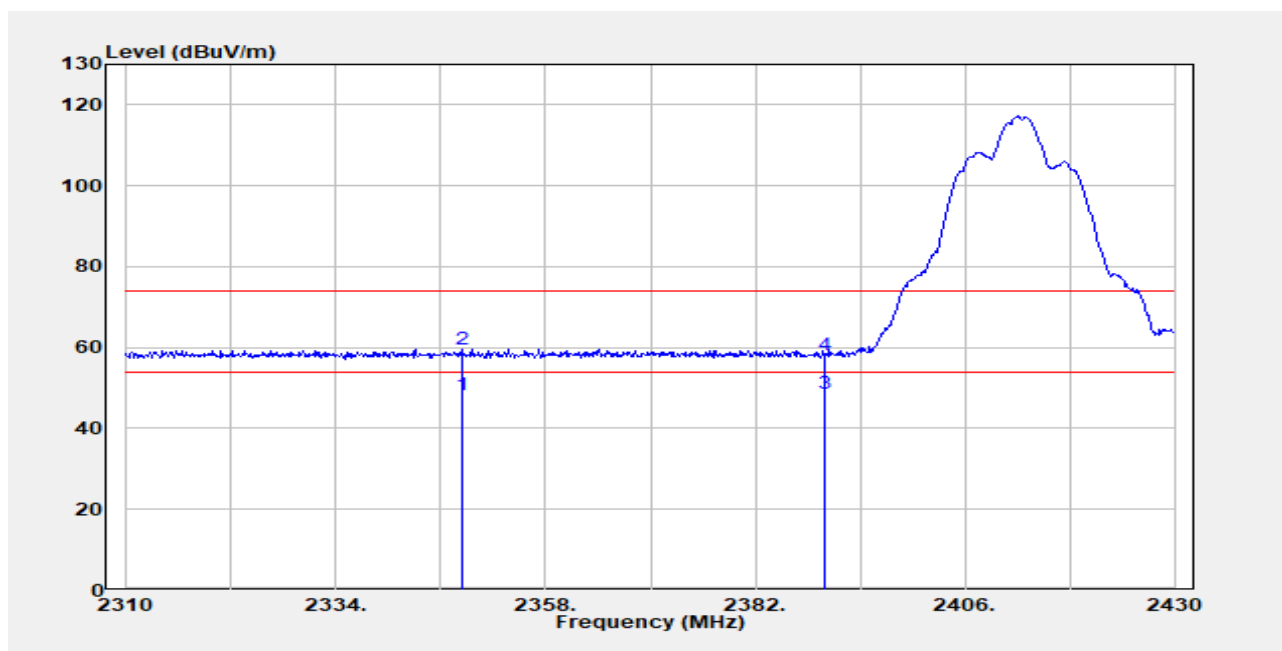
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11.6.1 Radiated Band Edge Measurement Result\_BeamForming OFF

Report Number	:ER/2022/30037	Test Site	:SAC 1
Operation Mode	:802.11b	Test Date	:2022-04-07
Test Frequency	:2412 MHz	Temp./Humi.	:22.7/65
Test Mode	:Bandedge CH Low	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2348.40	Average	47.76	0.53	48.29	54.00	-5.71
2348.40	Peak	59.16	0.53	59.69	74.00	-14.31
2390.00	Average	47.87	0.60	48.47	54.00	-5.53
2390.00	Peak	57.68	0.60	58.28	74.00	-15.72

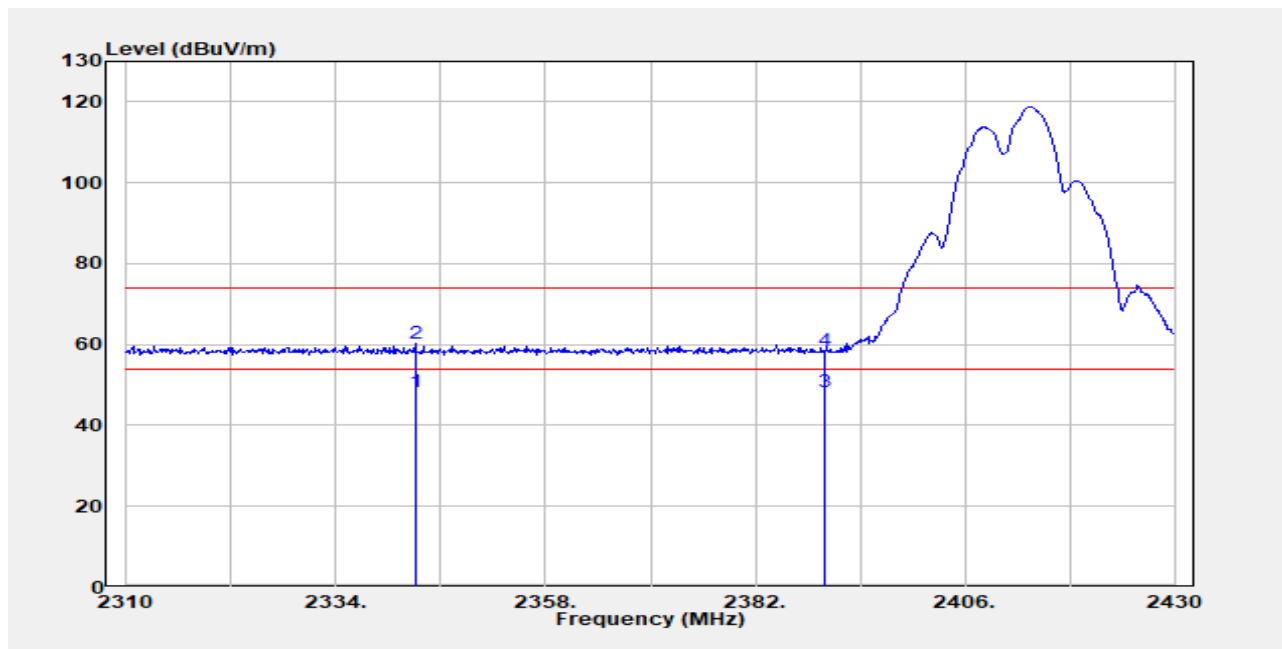
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Report Number :ER/2022/30037  
 Operation Mode :802.11b  
 Test Frequency :2412 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-07  
 Temp./Humi. :22.7/65  
 Antenna Pol. :Horizontal  
 Engineer :GN Lin



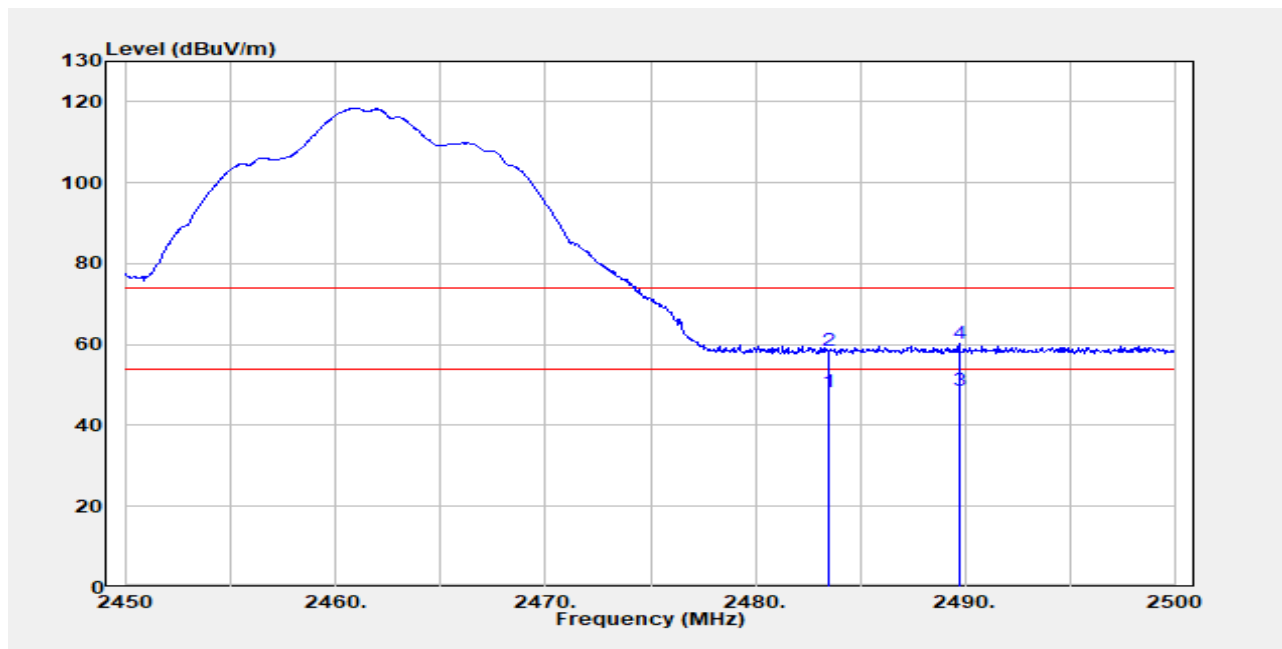
Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2343.12	Average	47.69	0.53	48.22	54.00	-5.78
2343.12	Peak	59.84	0.53	60.36	74.00	-13.64
2390.00	Average	47.79	0.60	48.39	54.00	-5.61
2390.00	Peak	57.82	0.60	58.42	74.00	-15.58

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Report Number	:ER/2022/30037	Test Site	:SAC 1
Operation Mode	:802.11b	Test Date	:2022-04-07
Test Frequency	:2462 MHz	Temp./Humi.	:22.7/65
Test Mode	:Bandedge CH High	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.50	Average	47.90	0.43	48.33	54.00	-5.67
2483.50	Peak	58.08	0.43	58.51	74.00	-15.49
2489.75	Average	47.99	0.46	48.45	54.00	-5.55
2489.75	Peak	59.68	0.46	60.14	74.00	-13.86

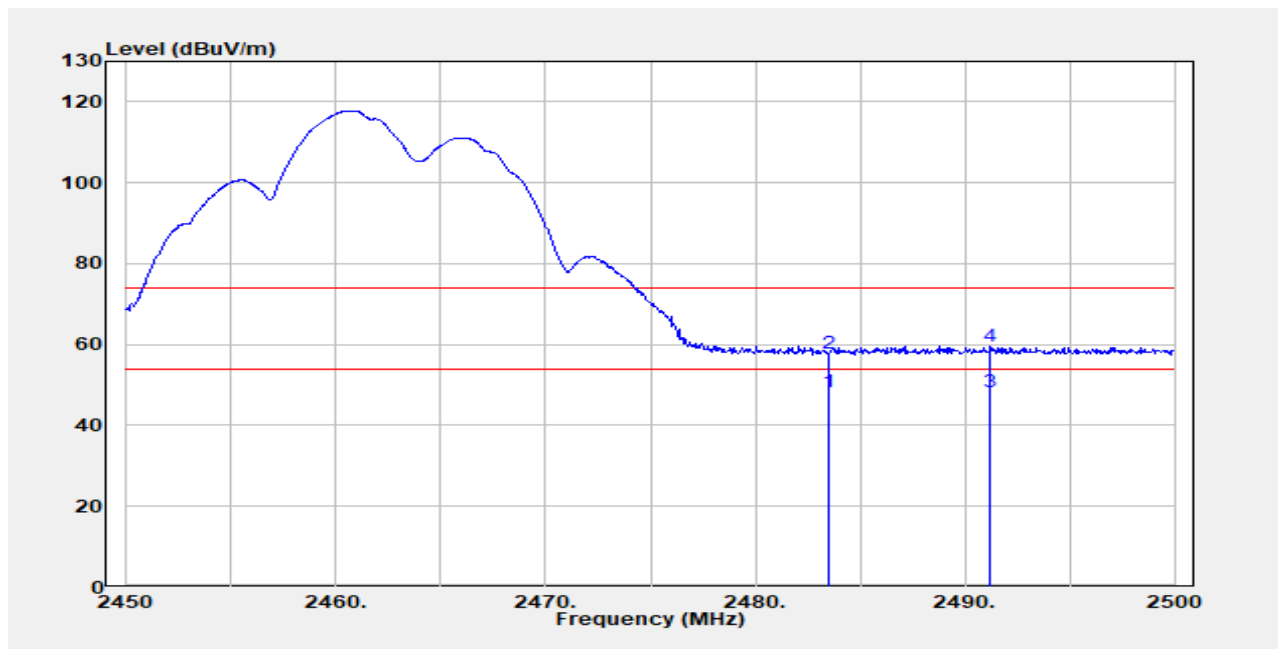
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Report Number :ER/2022/30037  
 Operation Mode :802.11b  
 Test Frequency :2462 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-07  
 Temp./Humi. :22.7/65  
 Antenna Pol. :Horizontal  
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.50	Average	47.81	0.43	48.24	54.00	-5.76
2483.50	Peak	57.50	0.43	57.93	74.00	-16.07
2491.20	Average	47.86	0.47	48.33	54.00	-5.67
2491.20	Peak	59.16	0.47	59.63	74.00	-14.37

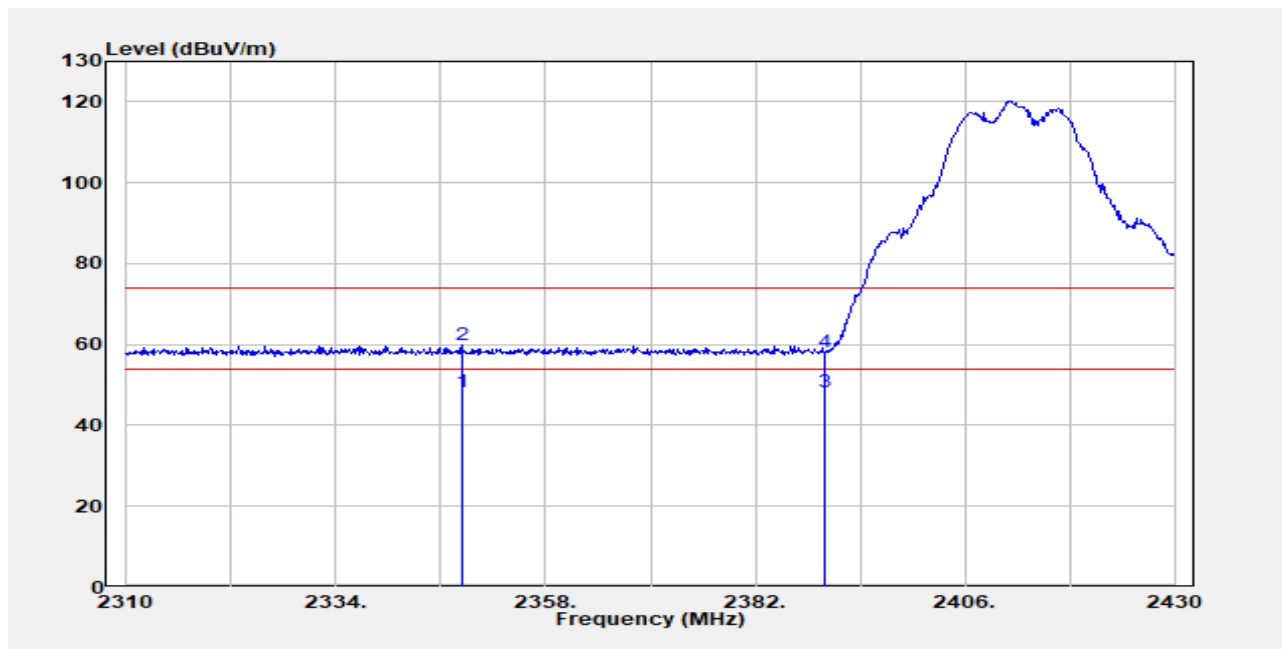
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Report Number :ER/2022/30037  
 Operation Mode :802.11g  
 Test Frequency :2412 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-07  
 Temp./Humi. :22.7/65  
 Antenna Pol. :Vertical  
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2348.40	Average	47.61	0.53	48.14	54.00	-5.86
2348.40	Peak	59.29	0.53	59.82	74.00	-14.18
2390.00	Average	47.75	0.60	48.35	54.00	-5.65
2390.00	Peak	57.60	0.60	58.20	74.00	-15.80

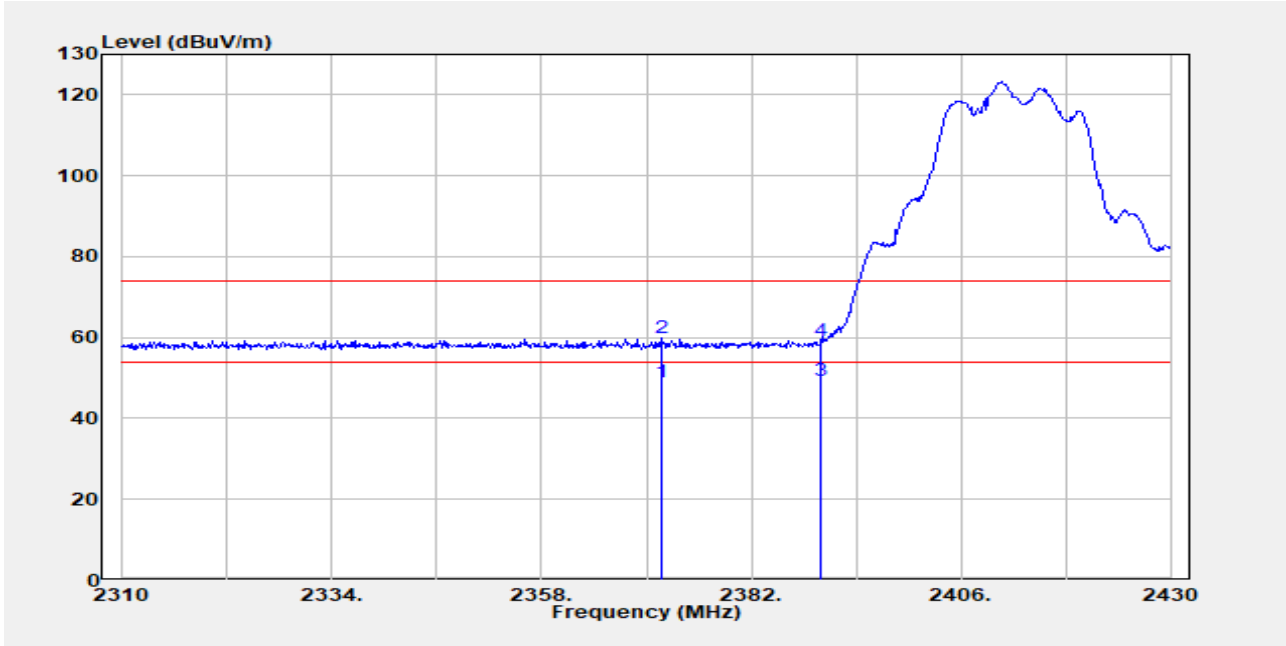
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Report Number :ER/2022/30037  
 Operation Mode :802.11g  
 Test Frequency :2412 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-07  
 Temp./Humi. :22.7/65  
 Antenna Pol. :Horizontal  
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2371.68	Average	48.33	0.57	48.90	54.00	-5.10
2371.68	Peak	59.28	0.57	59.85	74.00	-14.15
2390.00	Average	48.84	0.60	49.44	54.00	-4.56
2390.00	Peak	58.42	0.60	59.02	74.00	-14.98

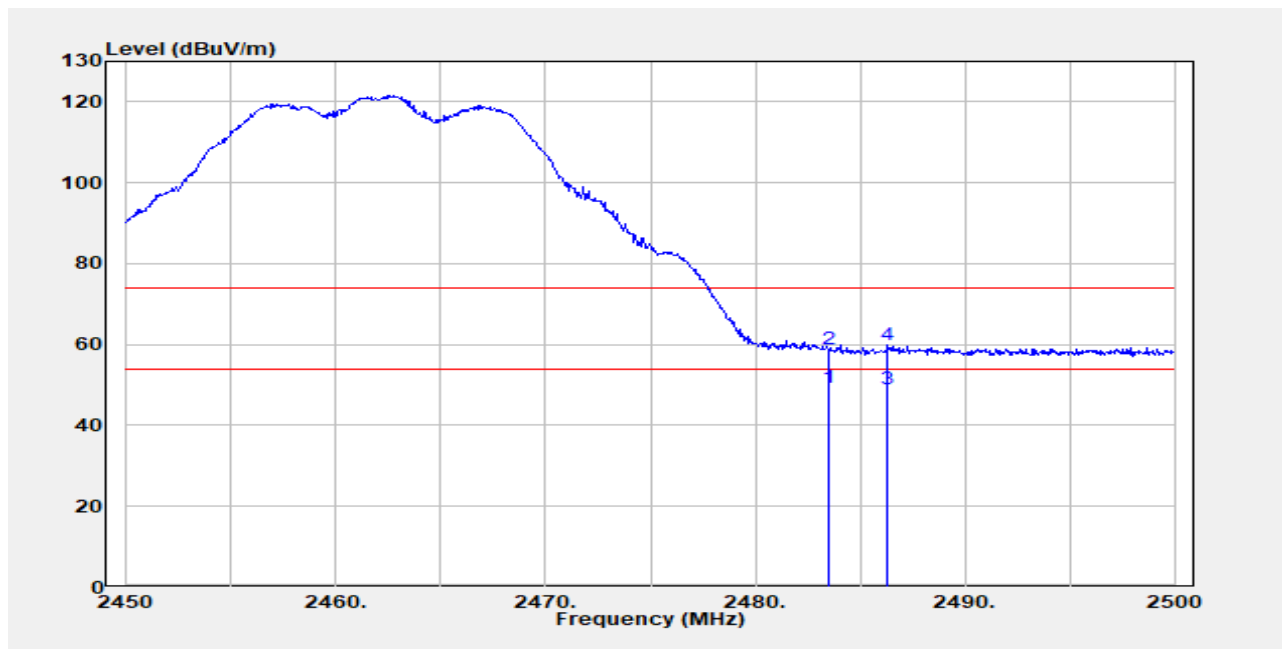
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Report Number	:ER/2022/30037	Test Site	:SAC 1
Operation Mode	:802.11g	Test Date	:2022-04-07
Test Frequency	:2462 MHz	Temp./Humi.	:22.7/65
Test Mode	:Bandedge CH High	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.50	Average	48.94	0.43	49.37	54.00	-4.63
2483.50	Peak	58.36	0.43	58.79	74.00	-15.21
2486.30	Average	48.55	0.44	48.99	54.00	-5.01
2486.30	Peak	59.38	0.44	59.82	74.00	-14.18

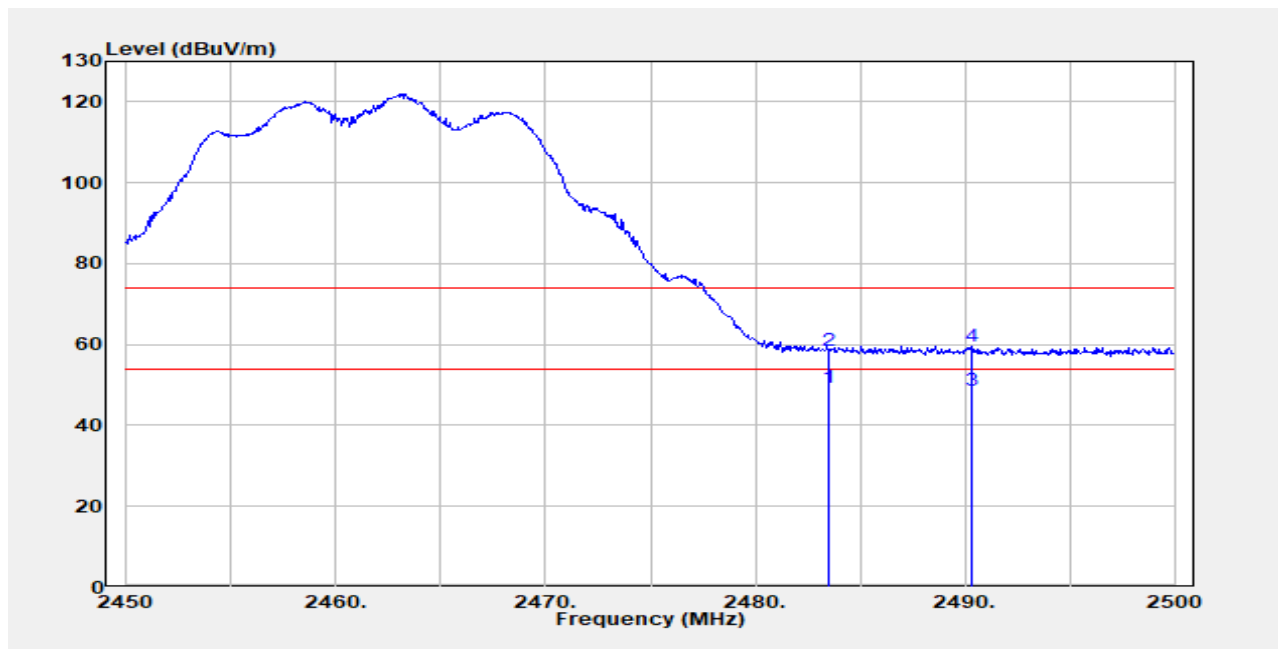
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Report Number :ER/2022/30037  
 Operation Mode :802.11g  
 Test Frequency :2462 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-07  
 Temp./Humi. :22.7/65  
 Antenna Pol. :Horizontal  
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.50	Average	48.93	0.43	49.36	54.00	-4.64
2483.50	Peak	58.18	0.43	58.61	74.00	-15.39
2490.35	Average	48.23	0.47	48.70	54.00	-5.30
2490.35	Peak	59.05	0.47	59.52	74.00	-14.48

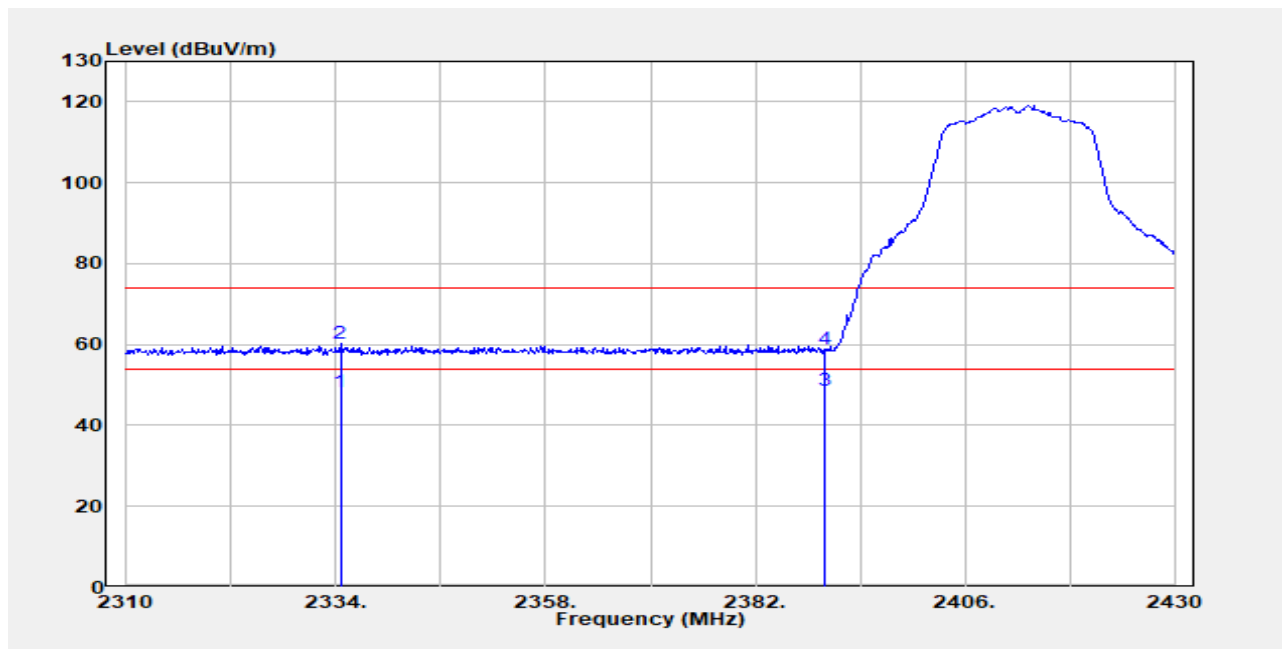
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Report Number :ER/2022/30037  
 Operation Mode :802.11n20  
 Test Frequency :2412 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-07  
 Temp./Humi. :22.7/65  
 Antenna Pol. :Vertical  
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2334.48	Average	47.68	0.52	48.20	54.00	-5.80
2334.48	Peak	59.64	0.52	60.16	74.00	-13.84
2390.00	Average	47.95	0.60	48.55	54.00	-5.45
2390.00	Peak	58.40	0.60	59.00	74.00	-15.00

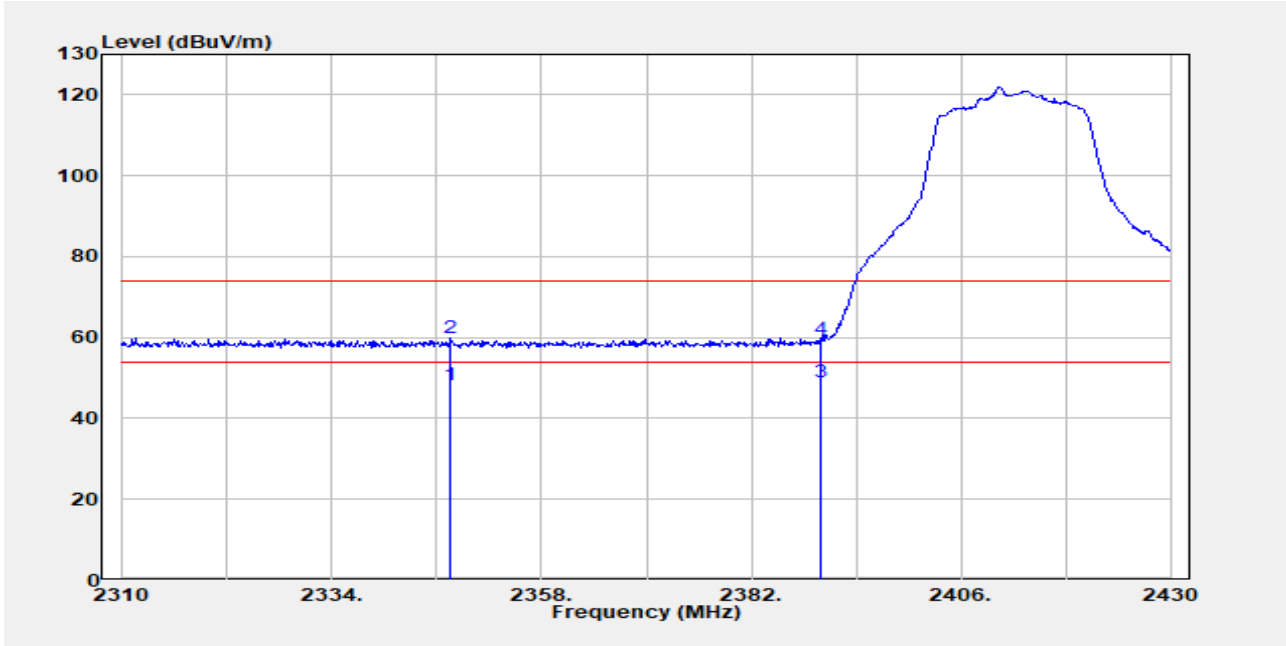
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Report Number :ER/2022/30037  
 Operation Mode :802.11n20  
 Test Frequency :2412 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-07  
 Temp./Humi. :22.7/65  
 Antenna Pol. :Horizontal  
 Engineer :GN Lin



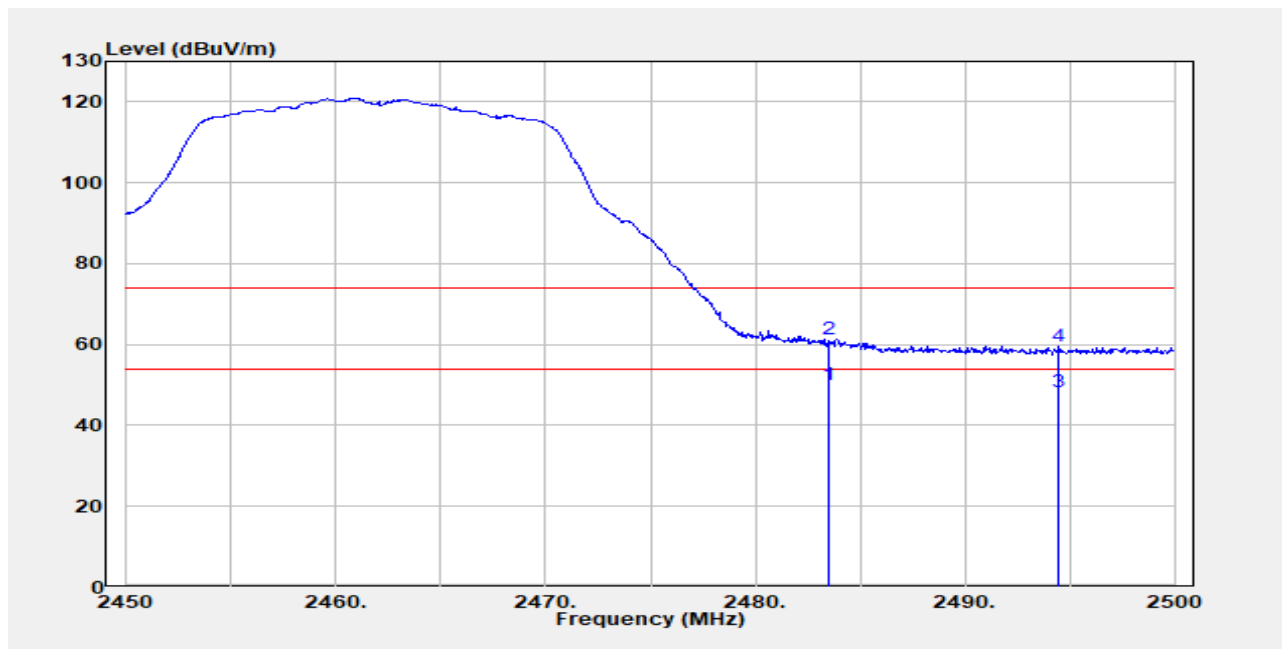
Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2347.56	Average	47.72	0.53	48.25	54.00	-5.75
2347.56	Peak	59.43	0.53	59.96	74.00	-14.04
2390.00	Average	48.32	0.60	48.92	54.00	-5.08
2390.00	Peak	58.85	0.60	59.45	74.00	-14.55

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Report Number	:ER/2022/30037	Test Site	:SAC 1
Operation Mode	:802.11n20	Test Date	:2022-04-07
Test Frequency	:2462 MHz	Temp./Humi.	:22.7/65
Test Mode	:Bandedge CH High	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:GN Lin



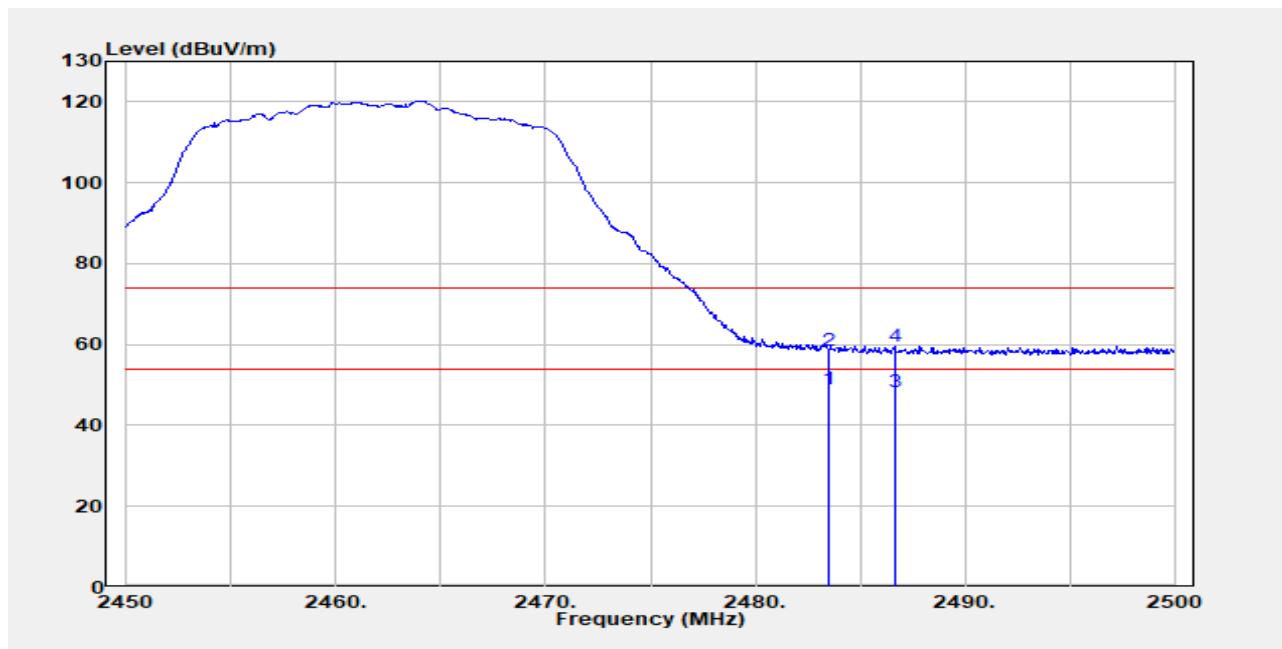
Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.50	Average	49.52	0.43	49.95	54.00	-4.05
2483.50	Peak	60.90	0.43	61.32	74.00	-12.68
2494.50	Average	47.73	0.49	48.22	54.00	-5.78
2494.50	Peak	59.22	0.49	59.71	74.00	-14.29

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Report Number	:ER/2022/30037	Test Site	:SAC 1
Operation Mode	:802.11n20	Test Date	:2022-04-07
Test Frequency	:2462 MHz	Temp./Humi.	:22.7/65
Test Mode	:Bandedge CH High	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.50	Average	48.40	0.43	48.83	54.00	-5.17
2483.50	Peak	57.94	0.43	58.37	74.00	-15.63
2486.65	Average	47.97	0.44	48.41	54.00	-5.59
2486.65	Peak	58.95	0.44	59.40	74.00	-14.60

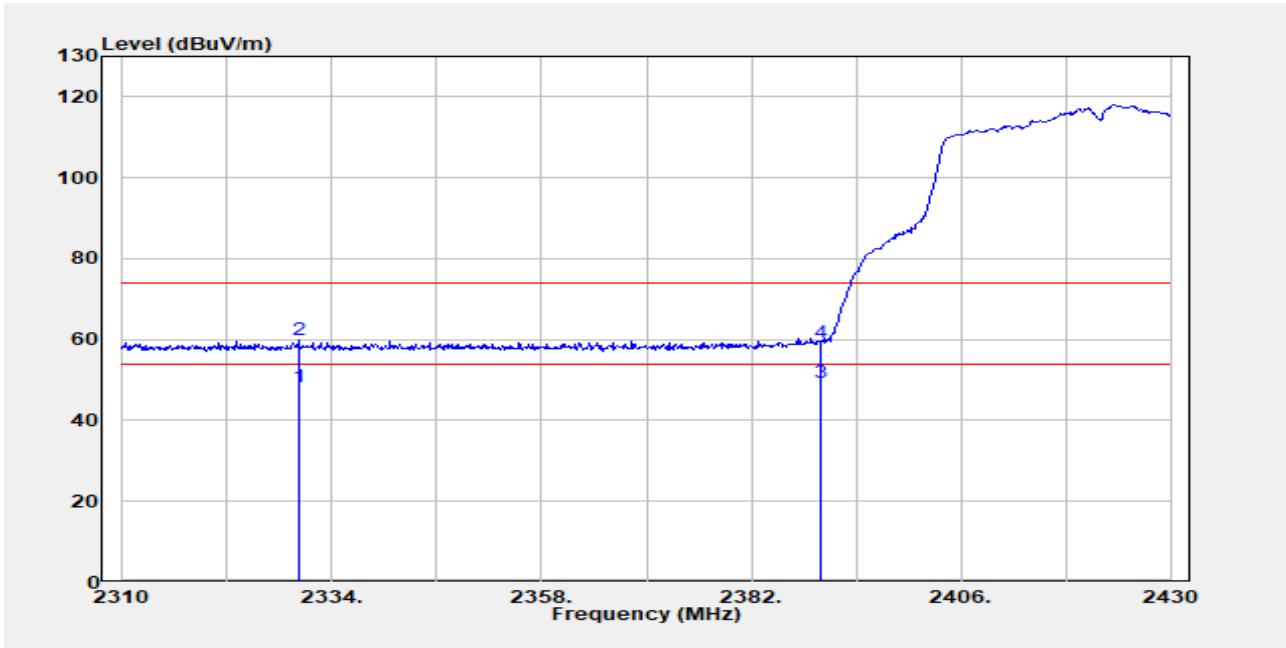
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Report Number :ER/2022/30037  
 Operation Mode :802.11n40  
 Test Frequency :2422 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-07  
 Temp./Humi. :22.7/65  
 Antenna Pol. :Vertical  
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2330.16	Average	47.62	0.51	48.13	54.00	-5.87
2330.16	Peak	59.22	0.51	59.73	74.00	-14.27
2390.00	Average	48.77	0.60	49.37	54.00	-4.63
2390.00	Peak	58.59	0.60	59.19	74.00	-14.81

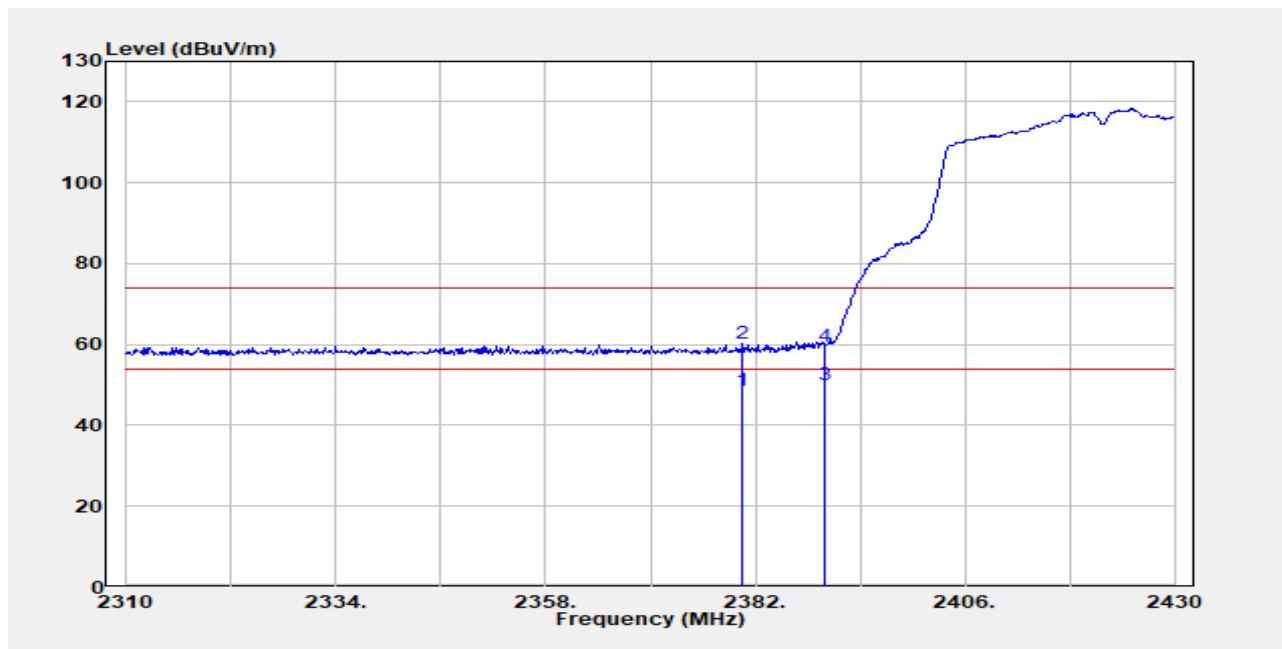
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Report Number :ER/2022/30037  
 Operation Mode :802.11n40  
 Test Frequency :2422 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-07  
 Temp./Humi. :22.7/65  
 Antenna Pol. :Horizontal  
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2380.56	Average	47.94	0.58	48.52	54.00	-5.48
2380.56	Peak	59.58	0.58	60.16	74.00	-13.84
2390.00	Average	49.28	0.60	49.88	54.00	-4.12
2390.00	Peak	59.03	0.60	59.63	74.00	-14.37

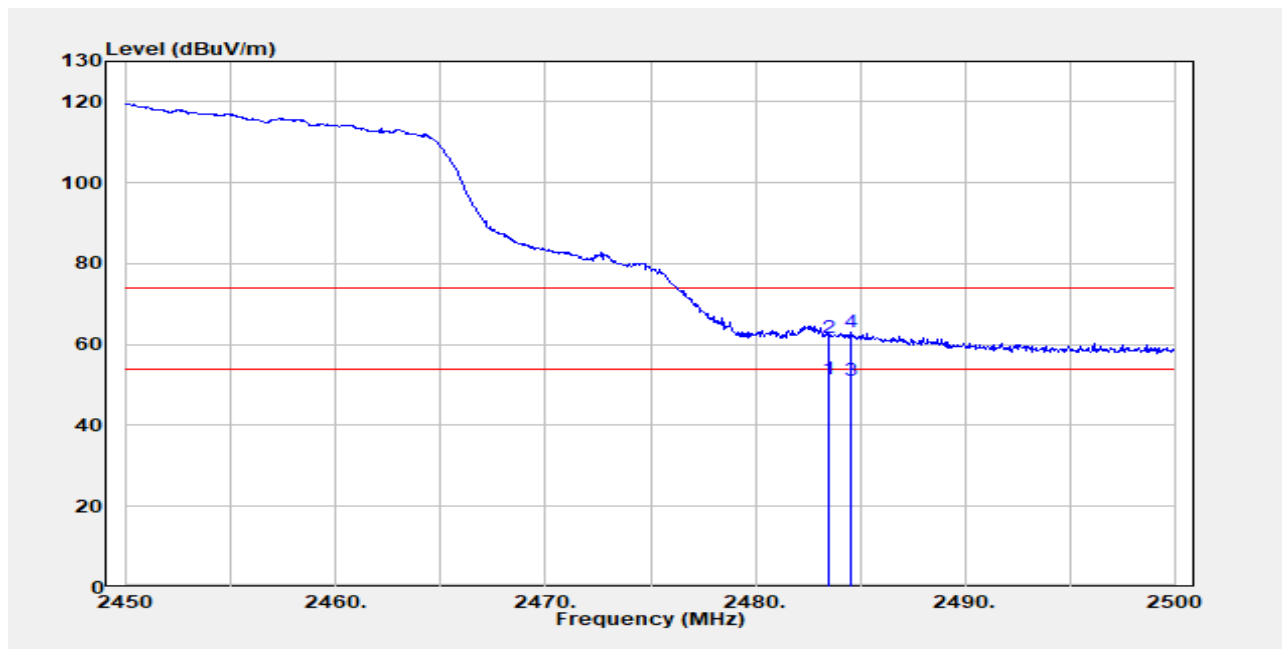
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Report Number	:ER/2022/30037	Test Site	:SAC 1
Operation Mode	:802.11n40	Test Date	:2022-04-07
Test Frequency	:2447 MHz	Temp./Humi.	:22.7/65
Test Mode	:Bandedge CH High	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.50	Average	51.04	0.43	51.47	54.00	-2.53
2483.50	Peak	61.39	0.43	61.81	74.00	-12.19
2484.55	Average	50.72	0.43	51.15	54.00	-2.85
2484.55	Peak	62.61	0.43	63.04	74.00	-10.96

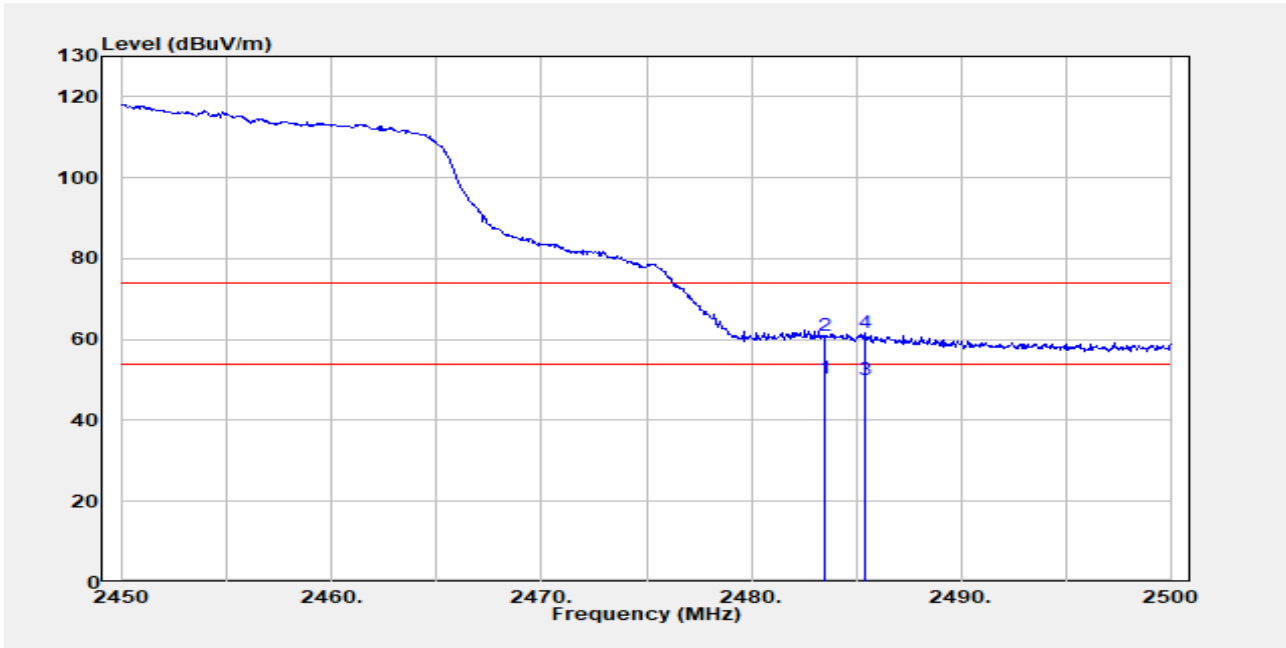
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Report Number :ER/2022/30037  
 Operation Mode :802.11n40  
 Test Frequency :2447 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-07  
 Temp./Humi. :22.7/65  
 Antenna Pol. :Horizontal  
 Engineer :GN Lin



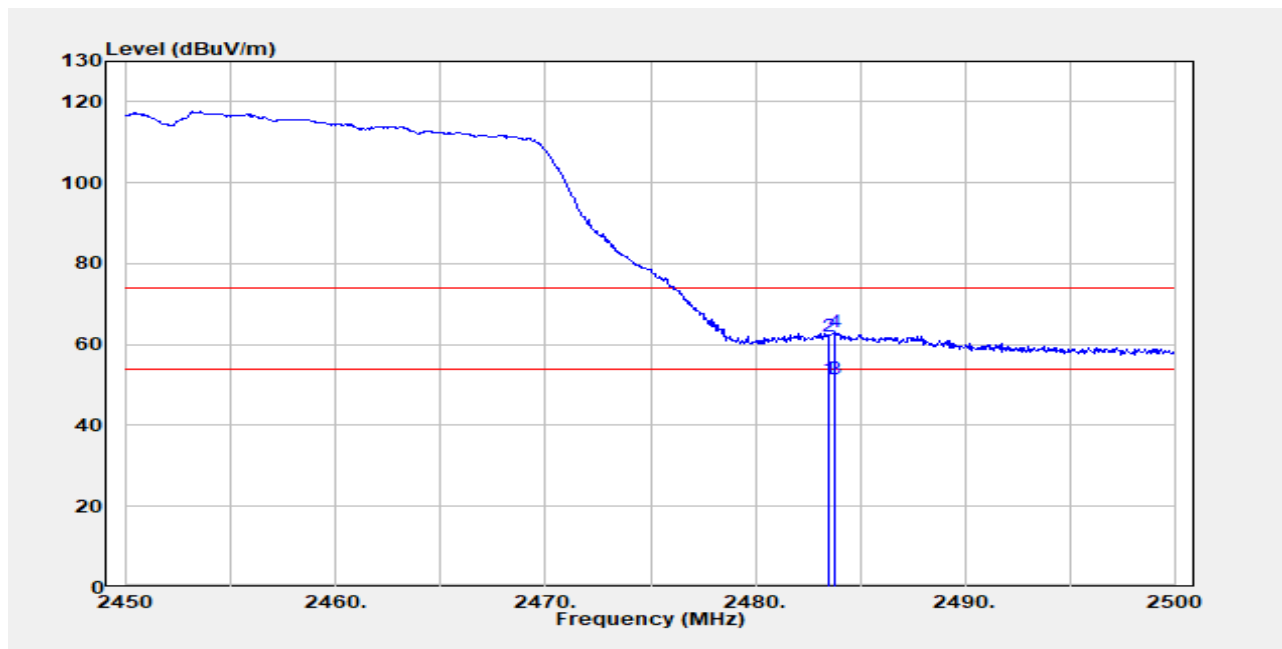
Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.50	Average	50.09	0.43	50.52	54.00	-3.48
2483.50	Peak	60.68	0.43	61.10	74.00	-12.90
2485.45	Average	49.64	0.44	50.08	54.00	-3.92
2485.45	Peak	61.21	0.44	61.65	74.00	-12.35

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Report Number	:ER/2022/30037	Test Site	:SAC 1
Operation Mode	:802.11n40	Test Date	:2022-04-07
Test Frequency	:2452 MHz	Temp./Humi.	:22.7/65
Test Mode	:Bandedge CH High	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.50	Average	50.91	0.43	51.34	54.00	-2.66
2483.50	Peak	61.47	0.43	61.89	74.00	-12.11
2483.80	Average	50.99	0.43	51.42	54.00	-2.58
2483.80	Peak	62.76	0.43	63.19	74.00	-10.81

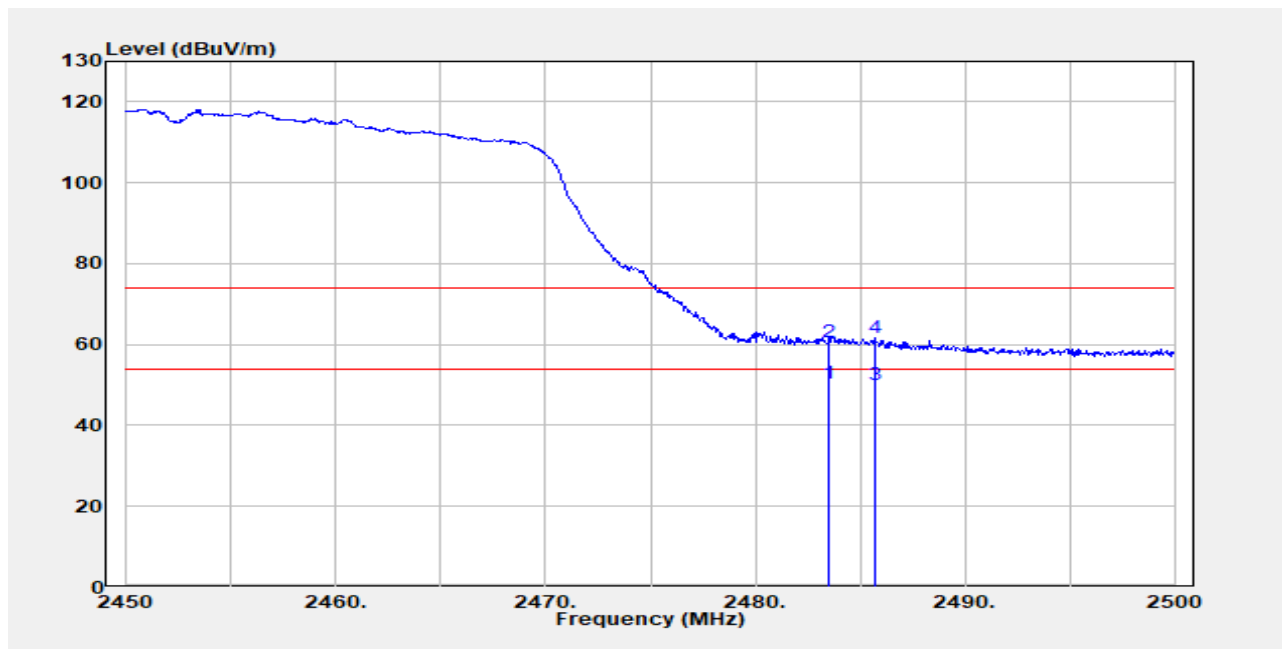
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Report Number :ER/2022/30037  
 Operation Mode :802.11n40  
 Test Frequency :2452 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-07  
 Temp./Humi. :22.7/65  
 Antenna Pol. :Horizontal  
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	50.03	0.43	50.46	54.00	-3.54
2483.50	Peak	60.28	0.43	60.70	74.00	-13.30
2485.70	Average	49.44	0.44	49.88	54.00	-4.12
2485.70	Peak	61.22	0.44	61.65	74.00	-12.35

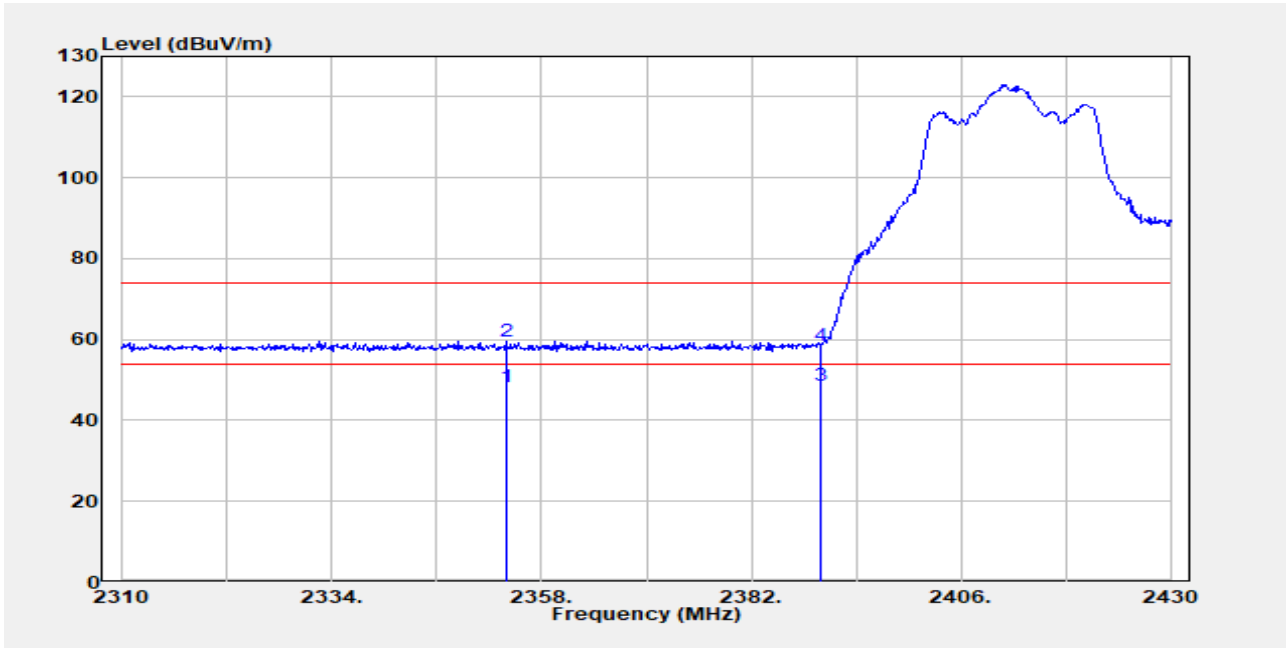
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Report Number :ER/2022/30037  
 Operation Mode :802.11ax20  
 Test Frequency :2412 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-07  
 Temp./Humi. :22.7/65  
 Antenna Pol. :Vertical  
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2353.92	Average	47.67	0.54	48.21	54.00	-5.79
2353.92	Peak	59.15	0.54	59.69	74.00	-14.31
2390.00	Average	48.16	0.60	48.76	54.00	-5.24
2390.00	Peak	57.96	0.60	58.56	74.00	-15.44

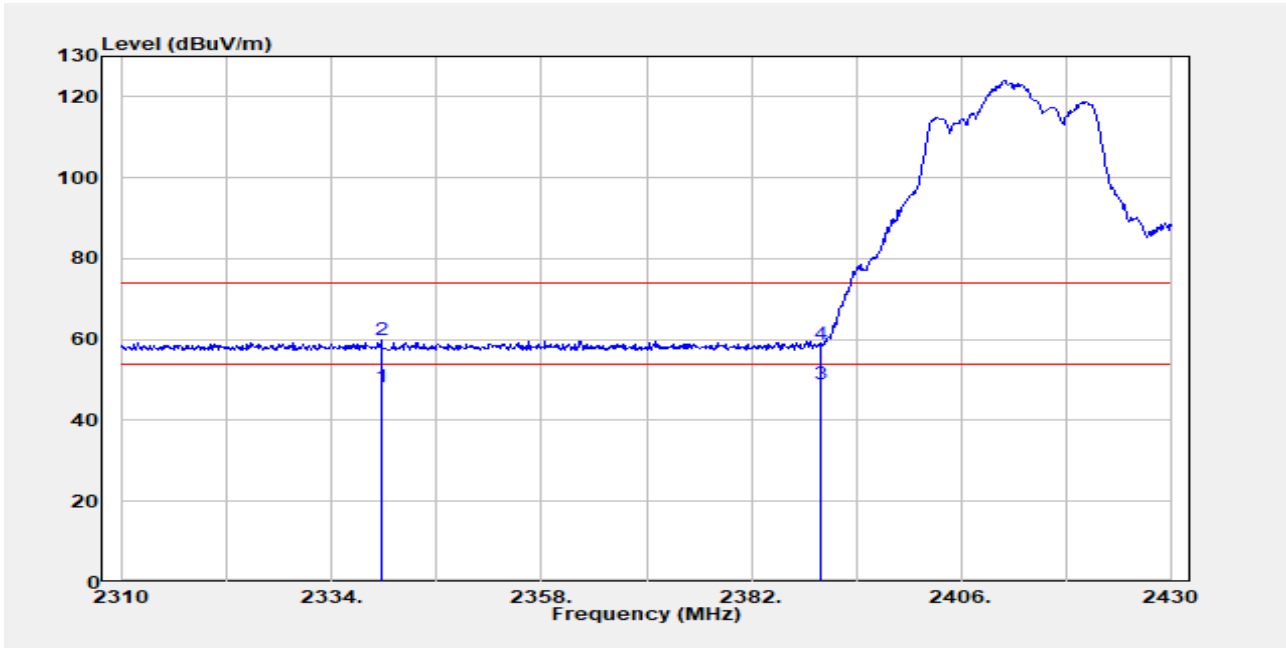
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Report Number :ER/2022/30037  
 Operation Mode :802.11ax20  
 Test Frequency :2412 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-07  
 Temp./Humi. :22.7/65  
 Antenna Pol. :Horizontal  
 Engineer :GN Lin



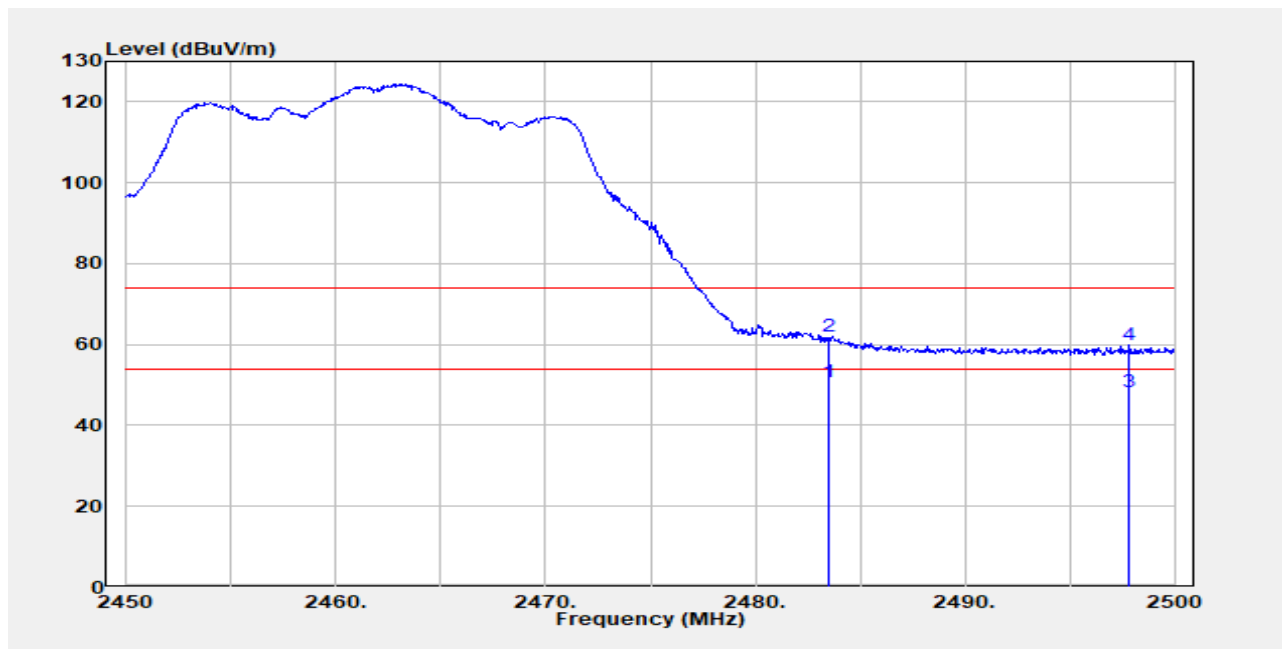
Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2339.64	Average	47.64	0.52	48.16	54.00	-5.84
2339.64	Peak	59.39	0.52	59.92	74.00	-14.08
2390.00	Average	48.23	0.60	48.83	54.00	-5.17
2390.00	Peak	58.24	0.60	58.84	74.00	-15.16

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Report Number	:ER/2022/30037	Test Site	:SAC 1
Operation Mode	:802.11ax20	Test Date	:2022-04-07
Test Frequency	:2462 MHz	Temp./Humi.	:22.7/65
Test Mode	:Bandedge CH High	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:GN Lin



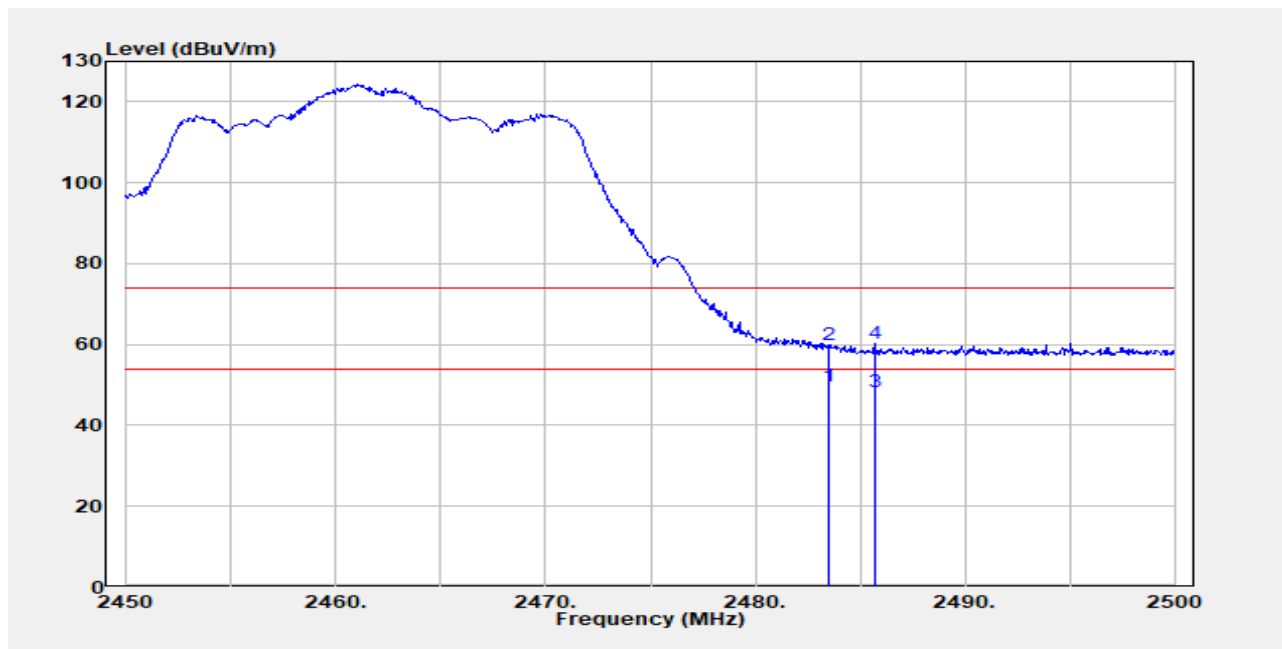
Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.50	Average	50.32	0.43	50.75	54.00	-3.25
2483.50	Peak	61.57	0.43	62.00	74.00	-12.00
2497.85	Average	47.73	0.51	48.24	54.00	-5.76
2497.85	Peak	59.37	0.51	59.88	74.00	-14.12

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Report Number	:ER/2022/30037	Test Site	:SAC 1
Operation Mode	:802.11ax20	Test Date	:2022-04-07
Test Frequency	:2462 MHz	Temp./Humi.	:22.7/65
Test Mode	:Bandedge CH High	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.50	Average	49.15	0.43	49.58	54.00	-4.42
2483.50	Peak	59.64	0.43	60.06	74.00	-13.94
2485.70	Average	47.93	0.44	48.37	54.00	-5.63
2485.70	Peak	59.78	0.44	60.22	74.00	-13.78

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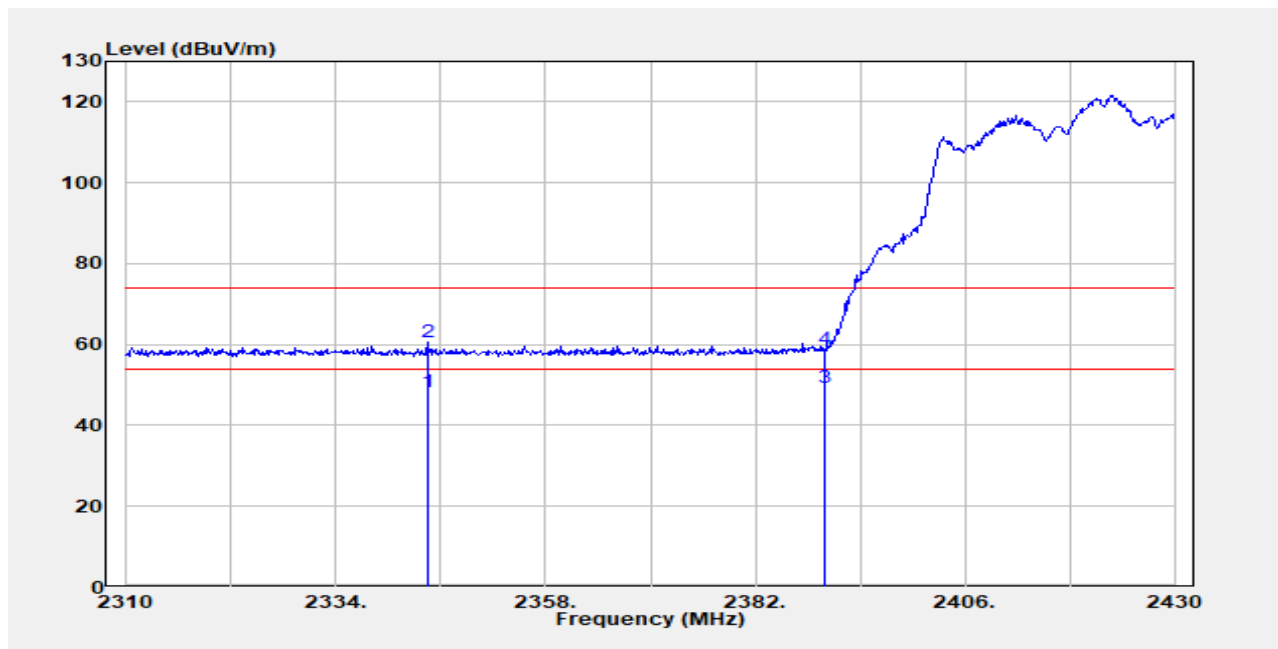
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Report Number :ER/2022/30037  
 Operation Mode :802.11ax40  
 Test Frequency :2422 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-07  
 Temp./Humi. :22.7/65  
 Antenna Pol. :Vertical  
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2344.44	Average	47.65	0.53	48.18	54.00	-5.82
2344.44	Peak	60.04	0.53	60.56	74.00	-13.44
2390.00	Average	48.62	0.60	49.22	54.00	-4.78
2390.00	Peak	58.17	0.60	58.77	74.00	-15.23

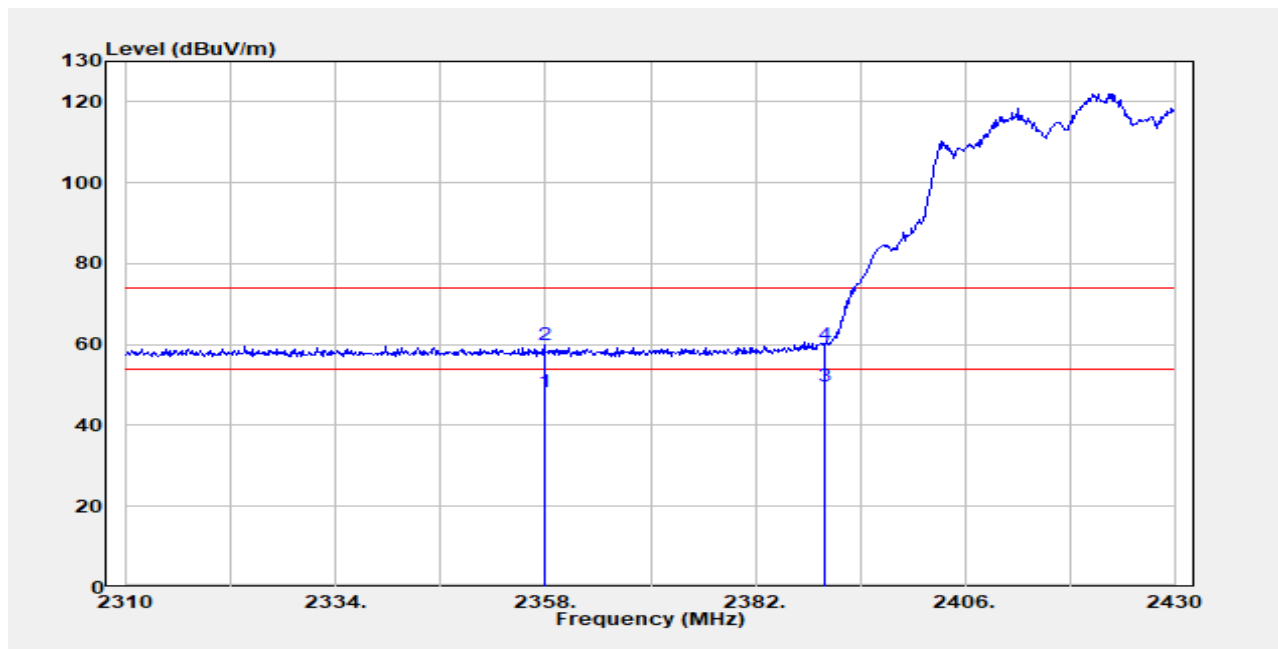
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Report Number :ER/2022/30037  
 Operation Mode :802.11ax40  
 Test Frequency :2422 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-07  
 Temp./Humi. :22.7/65  
 Antenna Pol. :Horizontal  
 Engineer :GN Lin



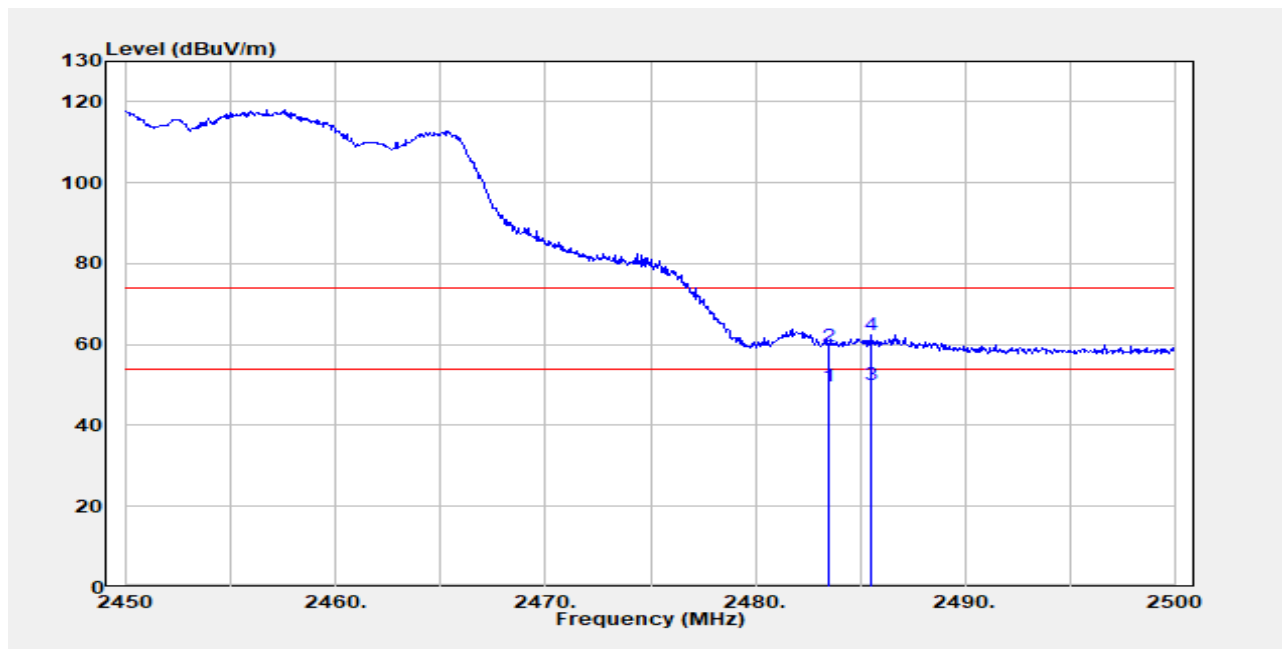
Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2357.88	Average	47.61	0.55	48.16	54.00	-5.84
2357.88	Peak	59.42	0.55	59.97	74.00	-14.03
2390.00	Average	49.20	0.60	49.80	54.00	-4.20
2390.00	Peak	59.31	0.60	59.91	74.00	-14.09

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Report Number	:ER/2022/30037	Test Site	:SAC 1
Operation Mode	:802.11ax40	Test Date	:2022-04-07
Test Frequency	:2447 MHz	Temp./Humi.	:22.7/65
Test Mode	:Bandedge CH High	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:GN Lin



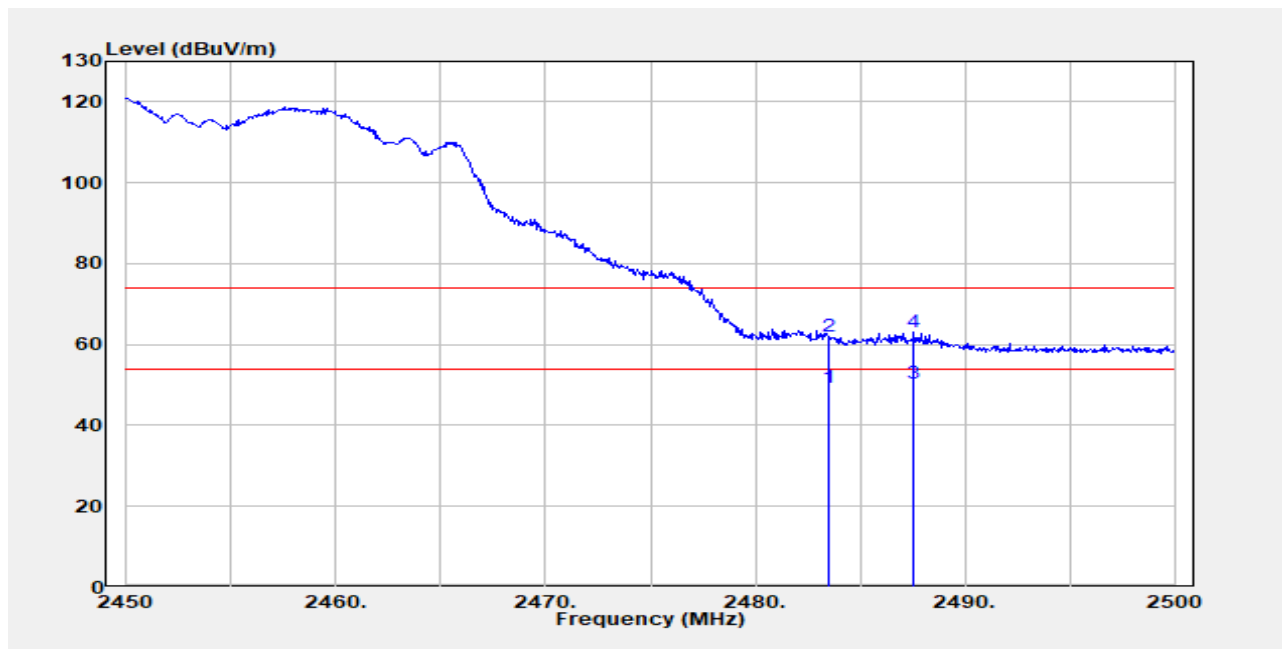
Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.50	Average	49.16	0.43	49.59	54.00	-4.41
2483.50	Peak	59.21	0.43	59.64	74.00	-14.36
2485.55	Average	49.69	0.44	50.13	54.00	-3.87
2485.55	Peak	61.77	0.44	62.21	74.00	-11.79

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Report Number	:ER/2022/30037	Test Site	:SAC 1
Operation Mode	:802.11ax40	Test Date	:2022-04-07
Test Frequency	:2447 MHz	Temp./Humi.	:22.7/65
Test Mode	:Bandedge CH High	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:GN Lin



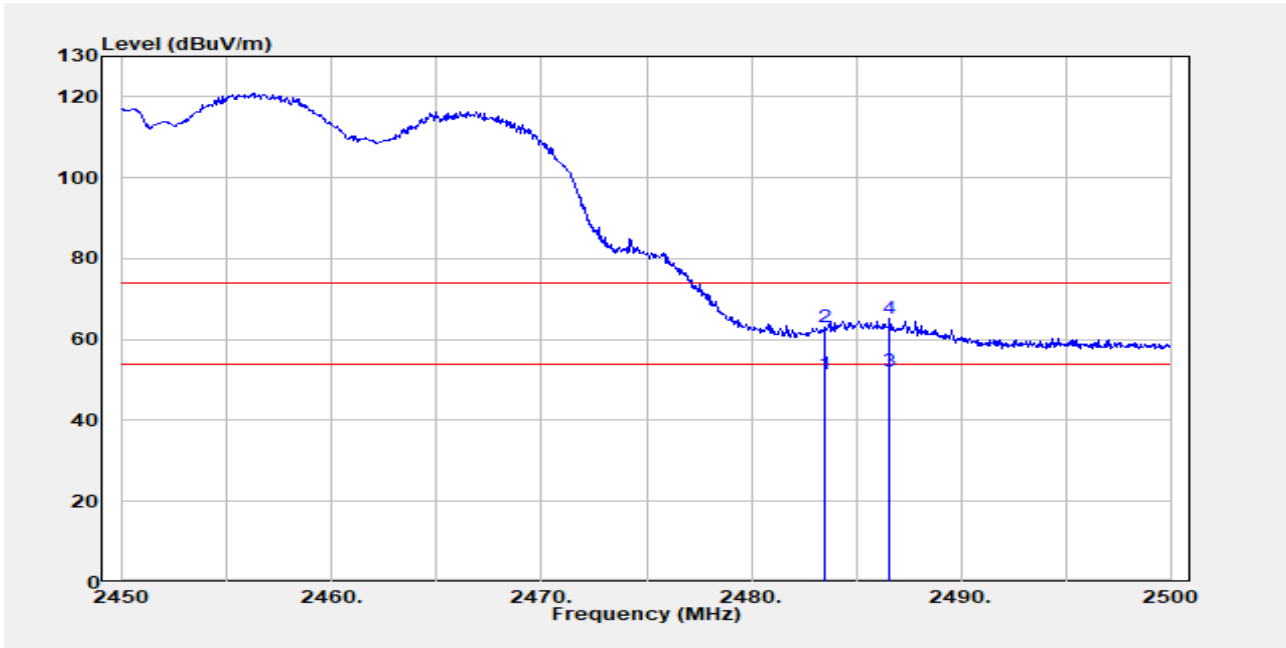
Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.50	Average	48.84	0.43	49.27	54.00	-4.73
2483.50	Peak	61.45	0.43	61.88	74.00	-12.12
2487.55	Average	49.83	0.45	50.28	54.00	-3.72
2487.55	Peak	62.59	0.45	63.04	74.00	-10.96

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Report Number	:ER/2022/30037	Test Site	:SAC 1
Operation Mode	:802.11ax40	Test Date	:2022-04-07
Test Frequency	:2452 MHz	Temp./Humi.	:22.7/65
Test Mode	:Bandedge CH High	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:GN Lin



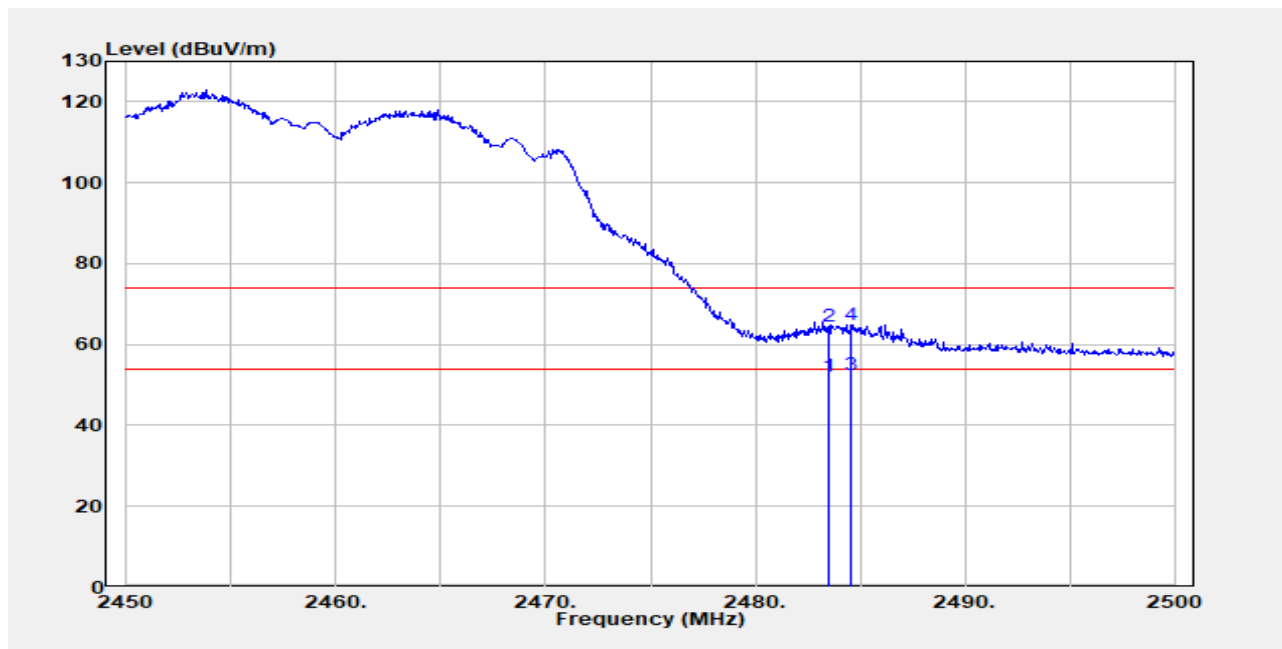
Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.50	Average	51.05	0.43	51.48	54.00	-2.52
2483.50	Peak	62.58	0.43	63.01	74.00	-10.99
2486.60	Average	51.85	0.44	52.29	54.00	-1.71
2486.60	Peak	64.59	0.44	65.03	74.00	-8.97

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Report Number	:ER/2022/30037	Test Site	:SAC 1
Operation Mode	:802.11ax40	Test Date	:2022-04-07
Test Frequency	:2452 MHz	Temp./Humi.	:22.7/65
Test Mode	:Bandedge CH High	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.50	Average	51.82	0.43	52.25	54.00	-1.75
2483.50	Peak	64.09	0.43	64.52	74.00	-9.48
2484.60	Average	51.97	0.43	52.40	54.00	-1.60
2484.60	Peak	64.53	0.43	64.96	74.00	-9.04

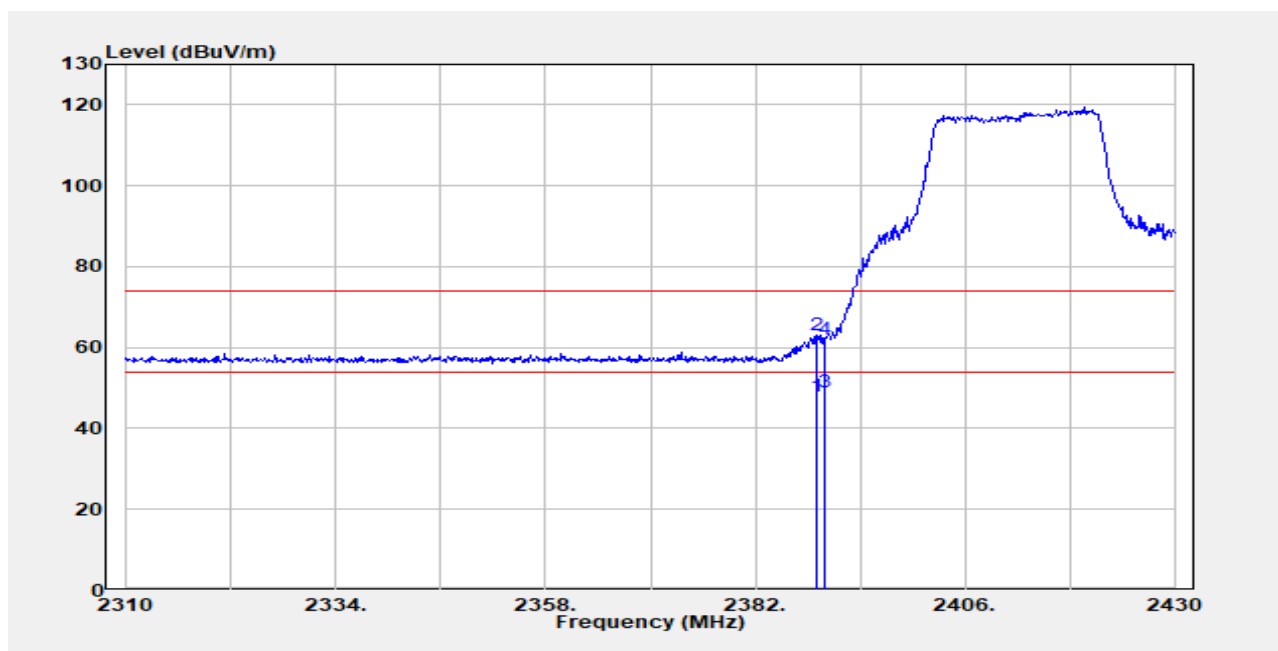
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11.6.2 Radiated Band Edge Measurement Result\_BeamForming ON

Report Number	:ER/2022/30037	Test Site	:SAC 1
Operation Mode	:802.11n20	Test Date	:2022-04-13
Test Frequency	:2412 MHz	Temp./Humi.	:22.6/64
Test Mode	:Bandedge CH LOW	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2388.96	Average	47.43	0.60	48.03	54.00	-5.97
2388.96	Peak	62.44	0.60	63.03	74.00	-10.97
2390.00	Average	48.32	0.60	48.92	54.00	-5.08
2390.00	Peak	61.54	0.60	62.14	74.00	-11.86

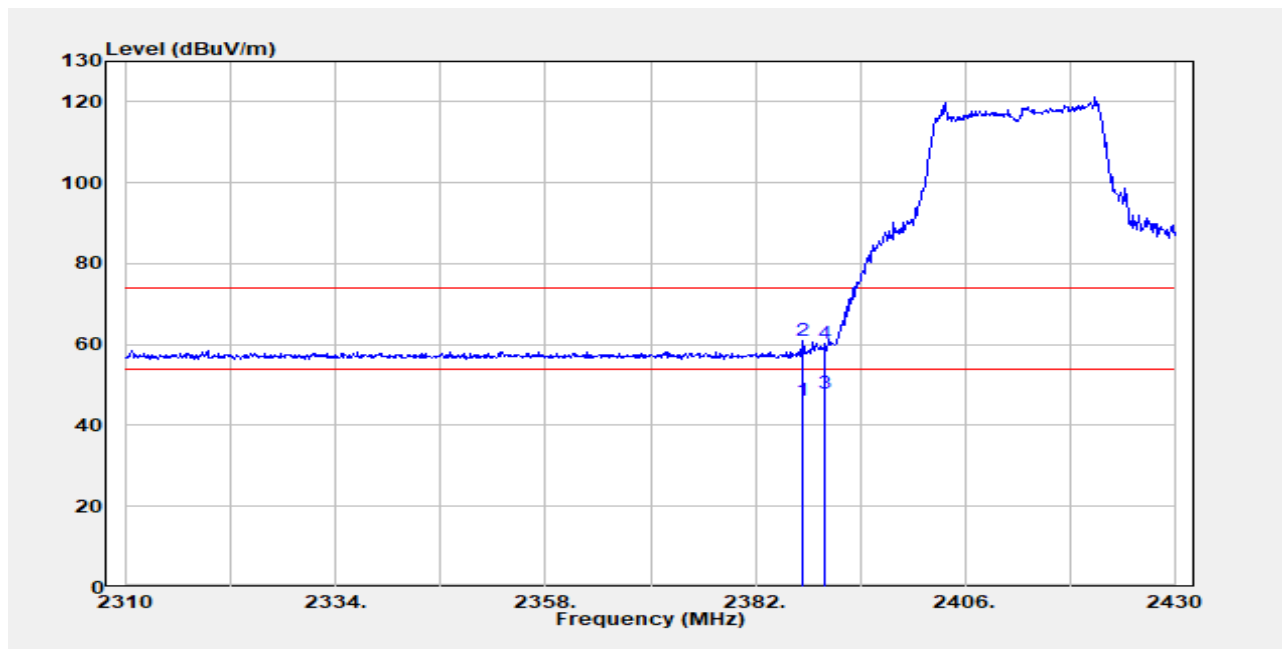
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Report Number :ER/2022/30037  
 Operation Mode :802.11n20  
 Test Frequency :2412 MHz  
 Test Mode :Bandedge CH LOW  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-13  
 Temp./Humi. :22.6/64  
 Antenna Pol. :Horizontal  
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2387.40	Average	45.64	0.60	46.24	54.00	-7.76
2387.40	Peak	60.22	0.60	60.81	74.00	-13.19
2390.00	Average	47.25	0.60	47.85	54.00	-6.15
2390.00	Peak	59.49	0.60	60.09	74.00	-13.91

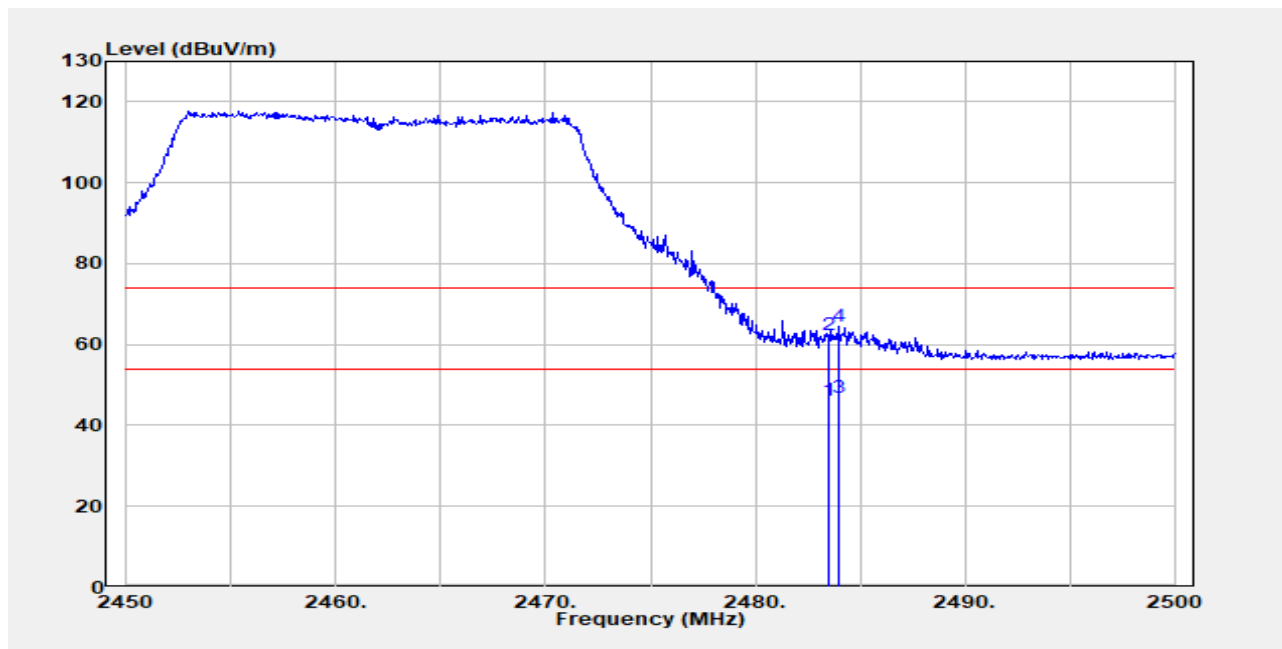
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Report Number	:ER/2022/30037	Test Site	:SAC 1
Operation Mode	:802.11n20	Test Date	:2022-04-13
Test Frequency	:2462 MHz	Temp./Humi.	:22.6/64
Test Mode	:Bandedge CH HIGH	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	45.67	0.43	46.10	54.00	-7.90
2483.50	Peak	61.77	0.43	62.20	74.00	-11.80
2483.95	Average	46.52	0.43	46.95	54.00	-7.05
2483.95	Peak	63.94	0.43	64.37	74.00	-9.63

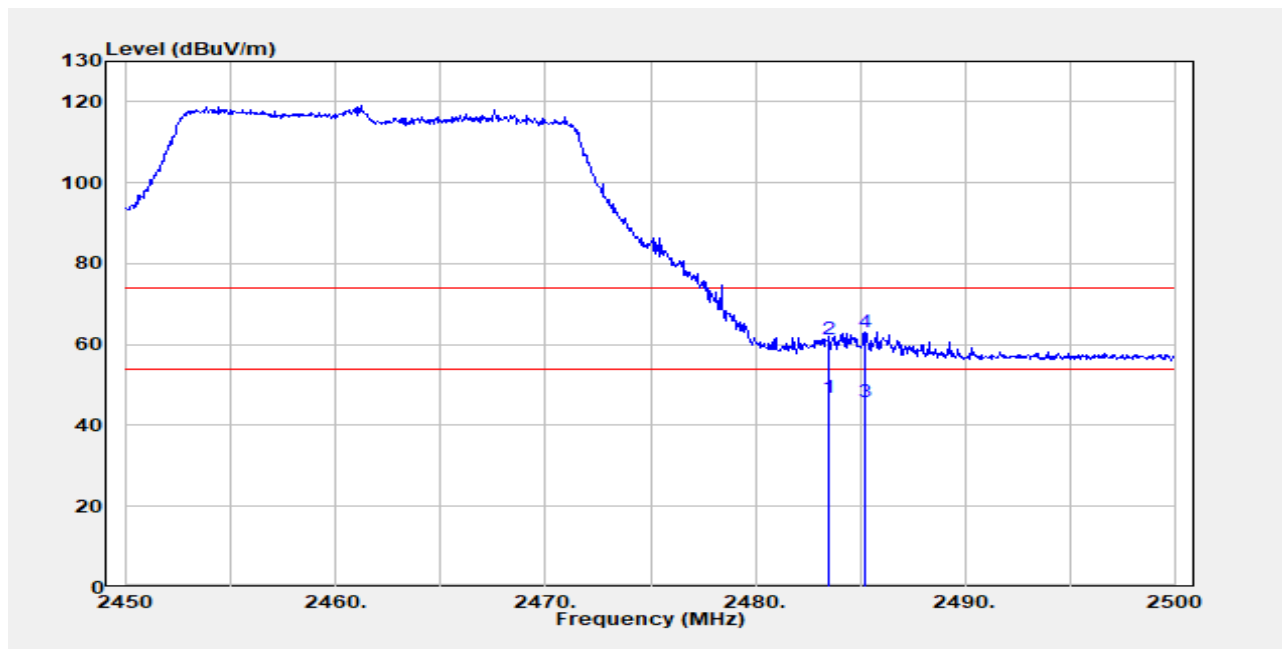
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Report Number :ER/2022/30037  
 Operation Mode :802.11n20  
 Test Frequency :2462 MHz  
 Test Mode :Bandedge CH HIGH  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-13  
 Temp./Humi. :22.6/64  
 Antenna Pol. :Horizontal  
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
2483.50	Average	46.54	0.43	46.97	54.00	-7.03
2483.50	Peak	60.77	0.43	61.20	74.00	-12.80
2485.25	Average	45.27	0.44	45.71	54.00	-8.29
2485.25	Peak	62.70	0.44	63.14	74.00	-10.86

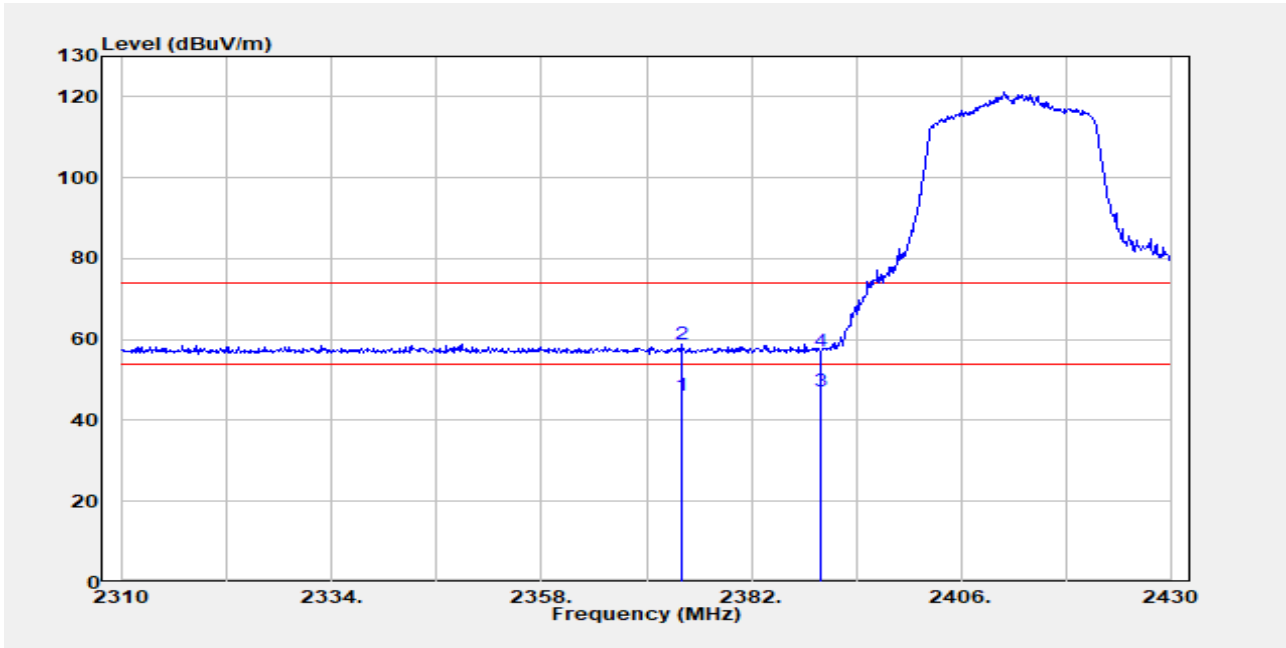
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Report Number :ER/2022/30037  
 Operation Mode :802.11ax20  
 Test Frequency :2412 MHz  
 Test Mode :Bandedge CH LOW  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-13  
 Temp./Humi. :22.6/64  
 Antenna Pol. :Vertical  
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2373.96	Average	45.57	0.57	46.14	54.00	-7.86
2373.96	Peak	58.43	0.57	59.00	74.00	-15.00
2390.00	Average	46.53	0.60	47.13	54.00	-6.87
2390.00	Peak	56.39	0.60	56.99	74.00	-17.01

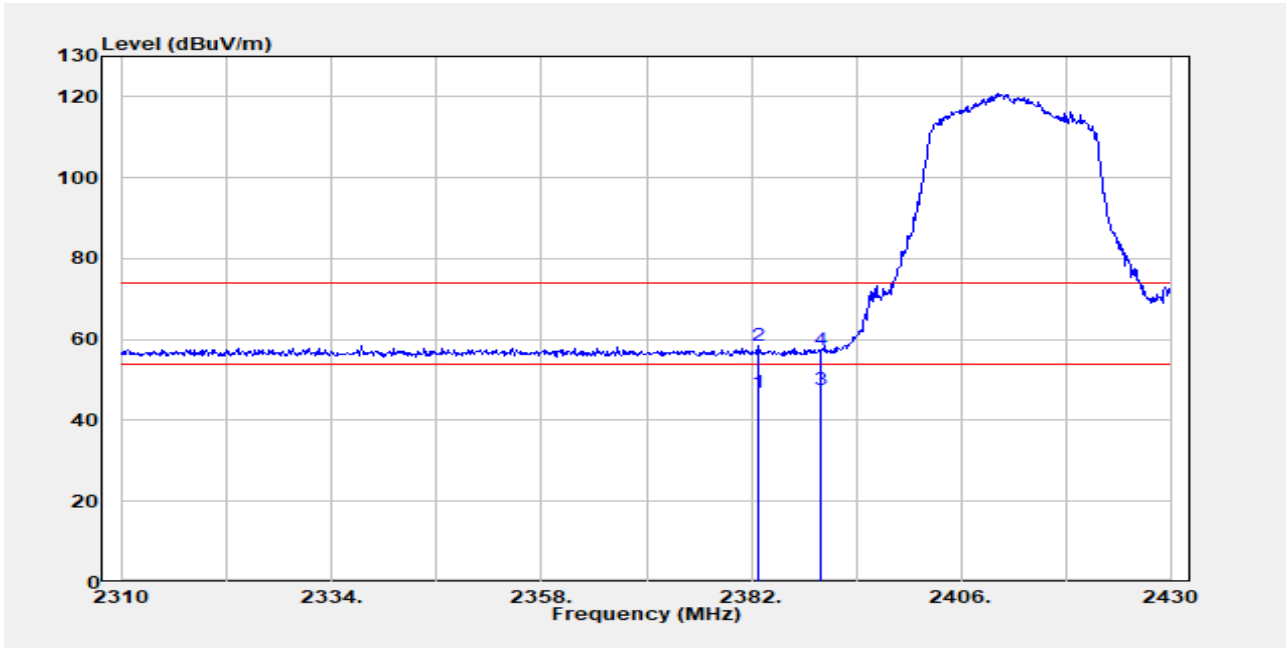
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Report Number :ER/2022/30037  
 Operation Mode :802.11ax20  
 Test Frequency :2412 MHz  
 Test Mode :Bandedge CH LOW  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-13  
 Temp./Humi. :22.6/64  
 Antenna Pol. :Horizontal  
 Engineer :GN Lin



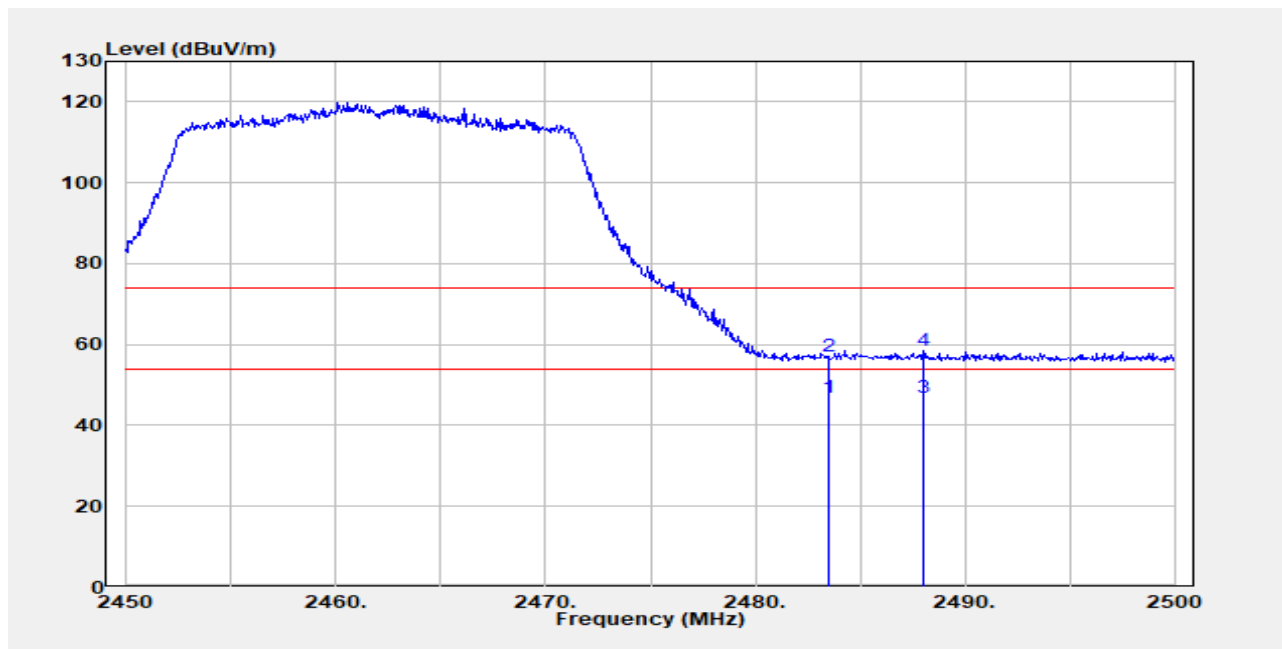
Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2382.72	Average	46.21	0.59	46.80	54.00	-7.20
2382.72	Peak	57.81	0.59	58.40	74.00	-15.60
2390.00	Average	46.92	0.60	47.52	54.00	-6.48
2390.00	Peak	56.92	0.60	57.52	74.00	-16.48

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Report Number	:ER/2022/30037	Test Site	:SAC 1
Operation Mode	:802.11ax20	Test Date	:2022-04-13
Test Frequency	:2462 MHz	Temp./Humi.	:22.6/64
Test Mode	:Bandedge CH HIGH	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:GN Lin



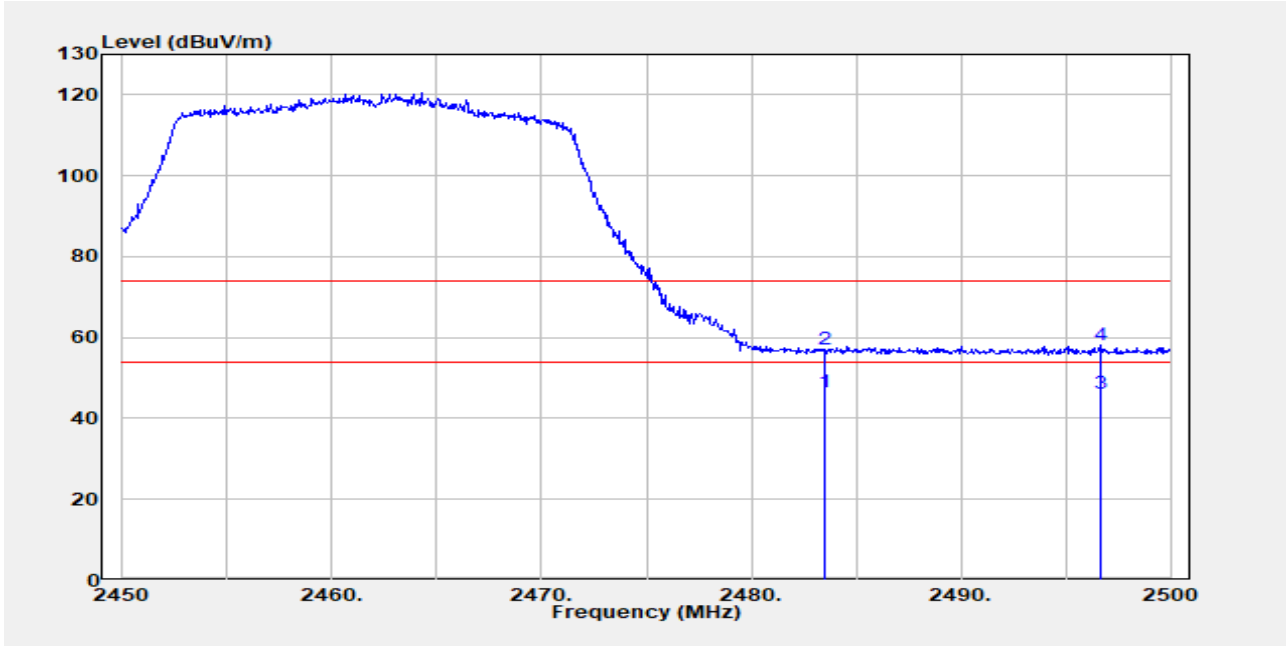
Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.50	Average	46.34	0.43	46.77	54.00	-7.23
2483.50	Peak	56.56	0.43	56.98	74.00	-17.02
2488.00	Average	46.23	0.45	46.68	54.00	-7.32
2488.00	Peak	57.86	0.45	58.31	74.00	-15.69

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Report Number	:ER/2022/30037	Test Site	:SAC 1
Operation Mode	:802.11ax20	Test Date	:2022-04-13
Test Frequency	:2462 MHz	Temp./Humi.	:22.6/64
Test Mode	:Bandedge CH HIGH	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.50	Average	45.91	0.43	46.34	54.00	-7.66
2483.50	Peak	56.73	0.43	57.15	74.00	-16.85
2496.65	Average	45.66	0.50	46.16	54.00	-7.84
2496.65	Peak	57.63	0.50	58.13	74.00	-15.87

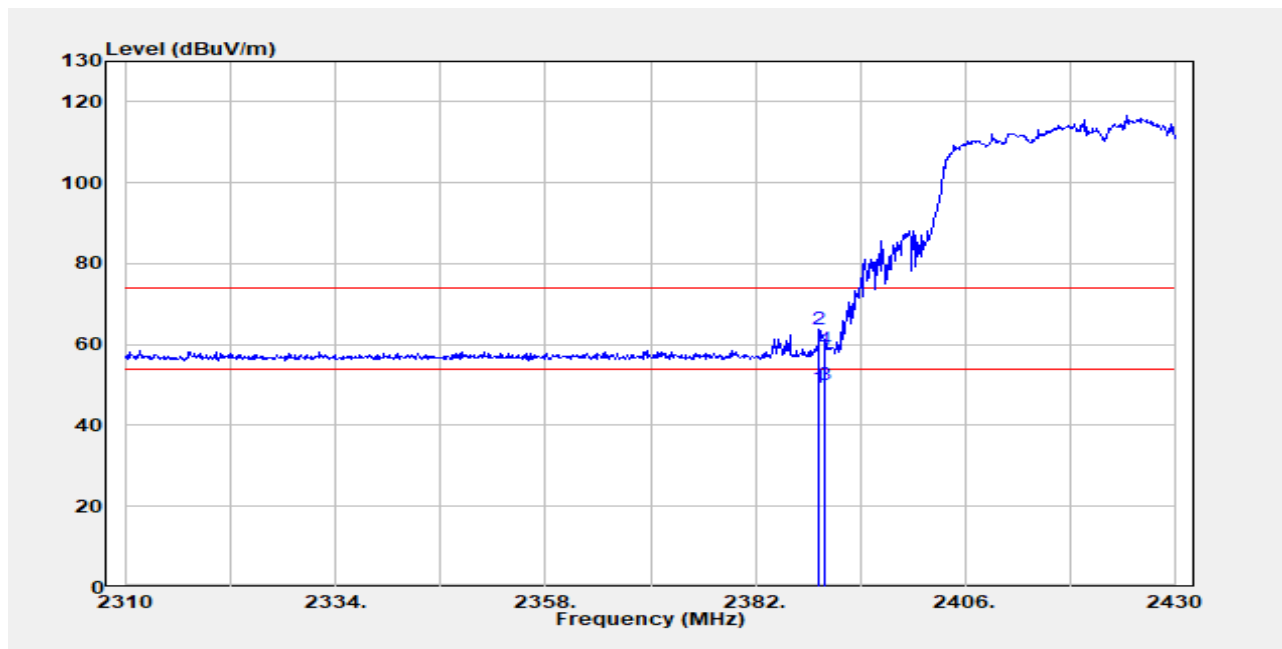
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Report Number :ER/2022/30037  
 Operation Mode :802.11n40  
 Test Frequency :2422 MHz  
 Test Mode :Bandedge CH LOW  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-14  
 Temp./Humi. :22.6/66  
 Antenna Pol. :Vertical  
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2389.32	Average	48.79	0.60	49.39	54.00	-4.61
2389.32	Peak	63.29	0.60	63.89	74.00	-10.11
2390.00	Average	49.32	0.60	49.92	54.00	-4.08
2390.00	Peak	58.28	0.60	58.88	74.00	-15.12

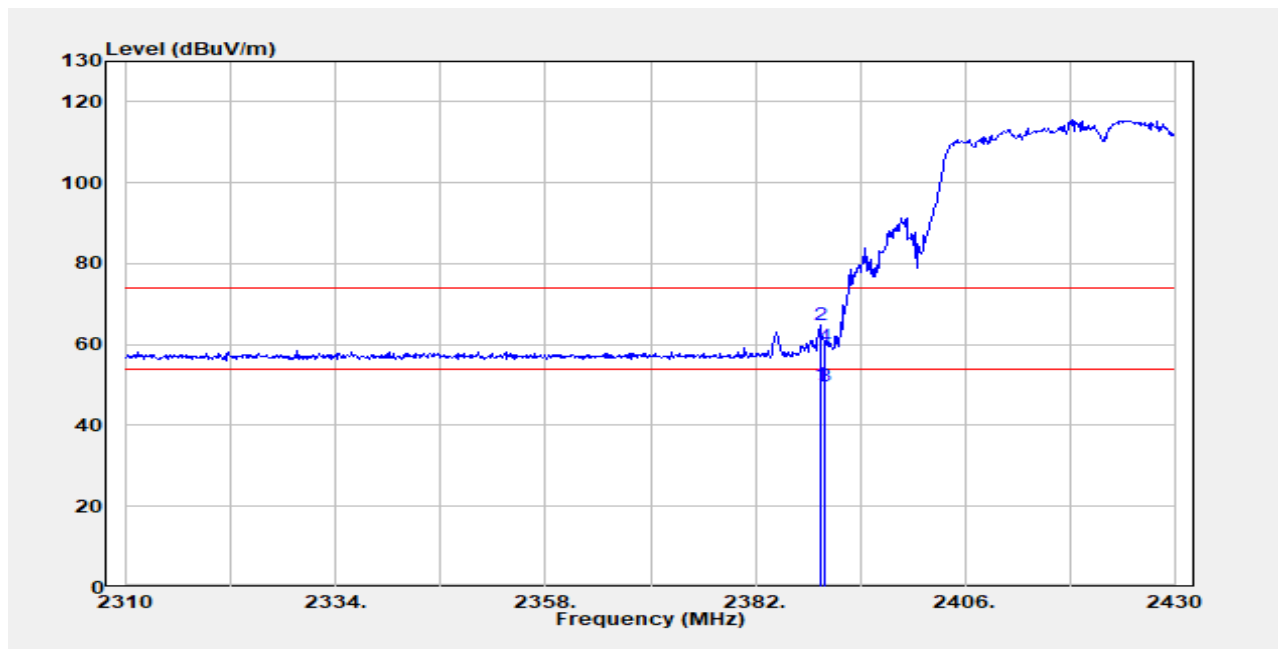
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Report Number :ER/2022/30037  
 Operation Mode :802.11n40  
 Test Frequency :2422 MHz  
 Test Mode :Bandedge CH LOW  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-14  
 Temp./Humi. :22.6/66  
 Antenna Pol. :Horizontal  
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2389.44	Average	49.55	0.60	50.15	54.00	-3.85
2389.44	Peak	64.19	0.60	64.79	74.00	-9.21
2390.00	Average	49.17	0.60	49.77	54.00	-4.23
2390.00	Peak	58.89	0.60	59.49	74.00	-14.51

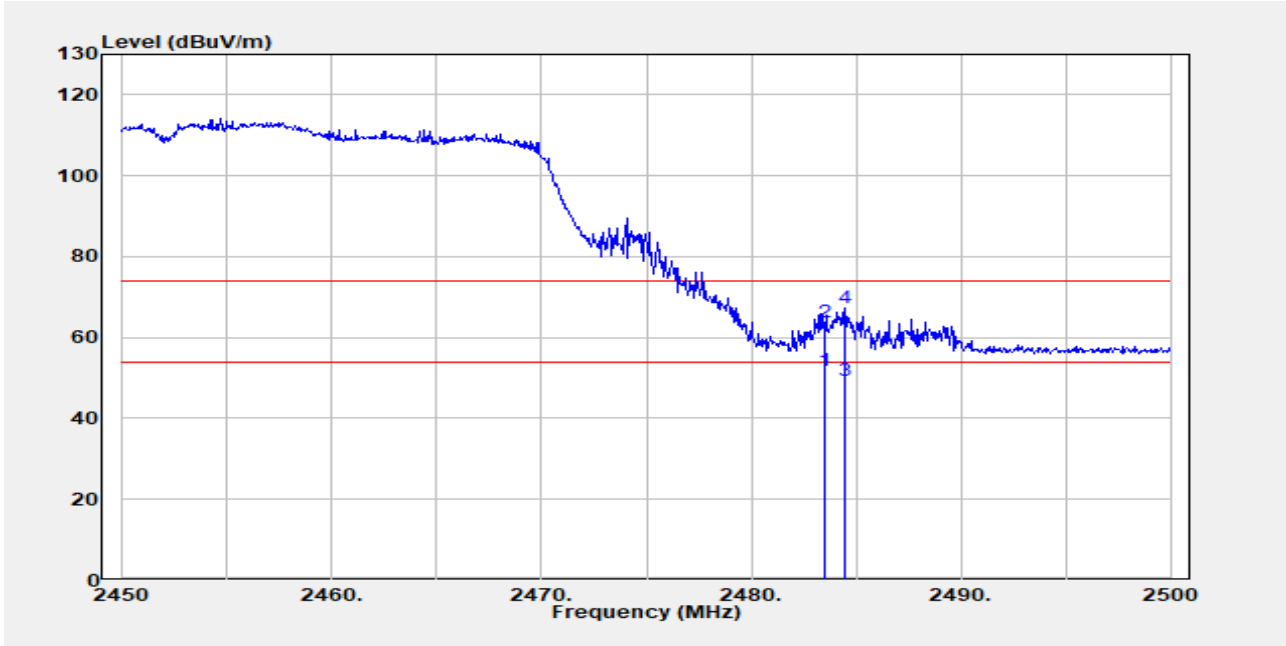
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Report Number	:ER/2022/30037	Test Site	:SAC 1
Operation Mode	:802.11n40	Test Date	:2022-04-14
Test Frequency	:2452 MHz	Temp./Humi.	:22.6/66
Test Mode	:Bandedge CH HIGH	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.50	Average	51.46	0.43	51.89	54.00	-2.11
2483.50	Peak	63.24	0.43	63.67	74.00	-10.33
2484.45	Average	49.02	0.43	49.45	54.00	-4.55
2484.45	Peak	66.79	0.43	67.23	74.00	-6.77

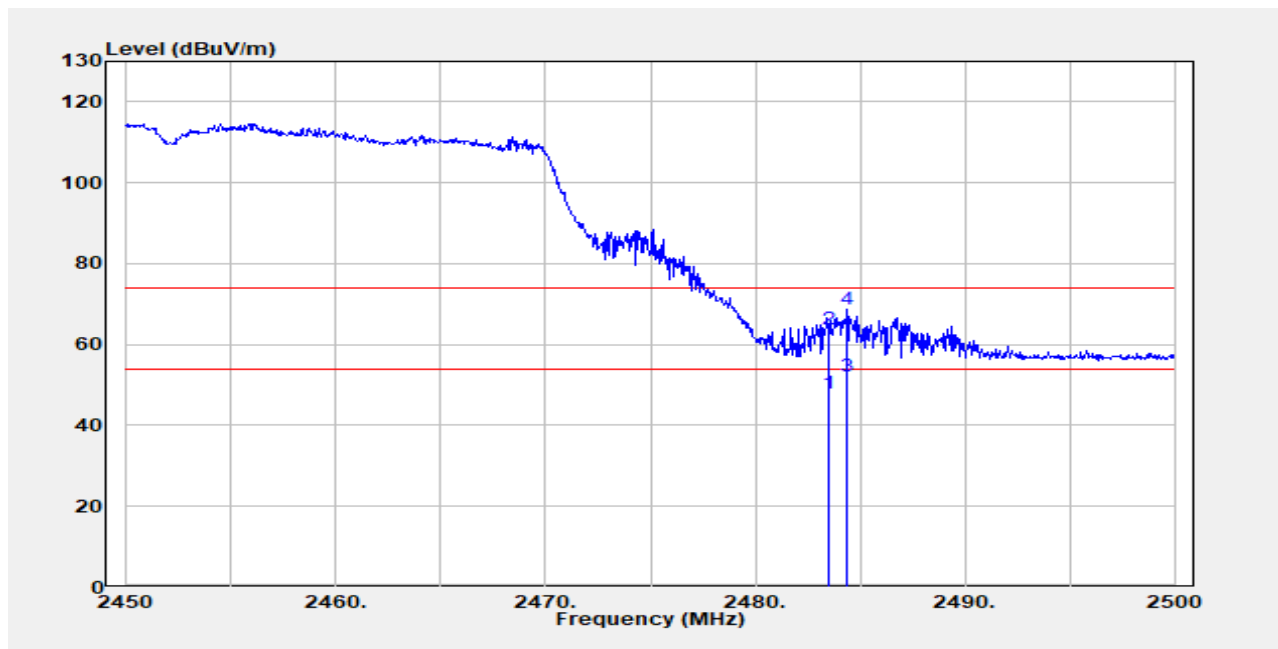
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Report Number :ER/2022/30037  
 Operation Mode :802.11n40  
 Test Frequency :2452 MHz  
 Test Mode :Bandedge CH HIGH  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-14  
 Temp./Humi. :22.6/66  
 Antenna Pol. :Horizontal  
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.50	Average	47.52	0.43	47.95	54.00	-6.05
2483.50	Peak	63.50	0.43	63.92	74.00	-10.08
2484.40	Average	51.88	0.43	52.31	54.00	-1.69
2484.40	Peak	68.34	0.43	68.77	74.00	-5.23

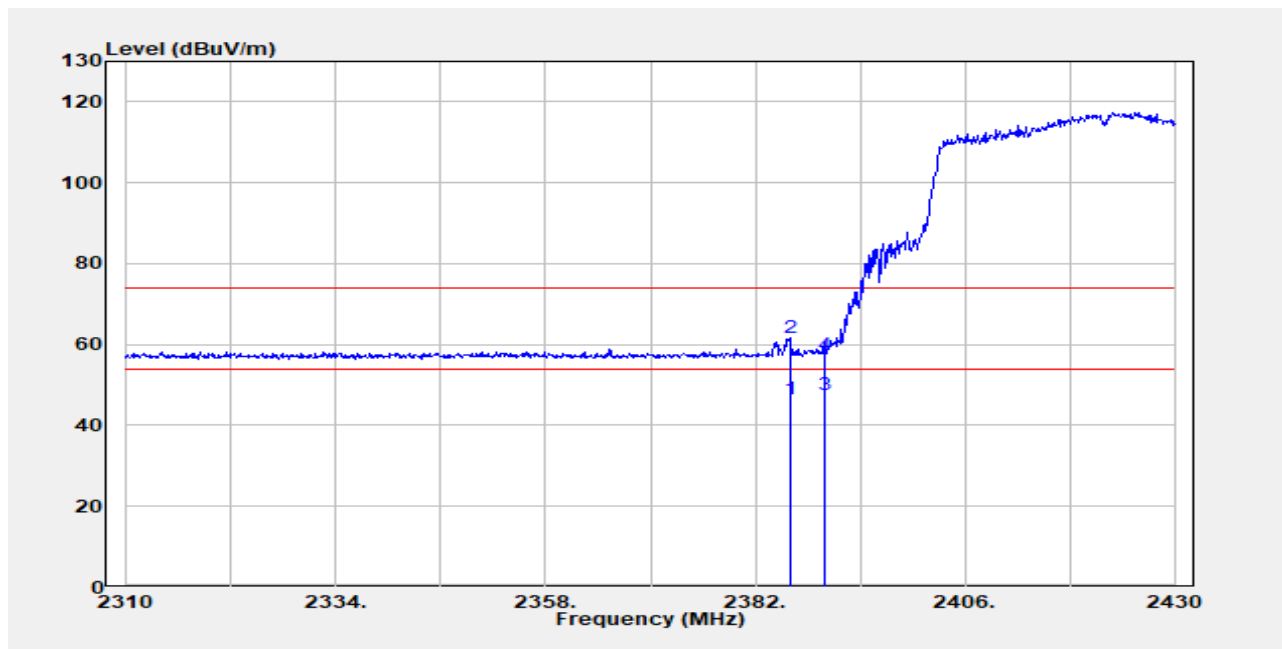
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Report Number :ER/2022/30037  
 Operation Mode :802.11ax40  
 Test Frequency :2422 MHz  
 Test Mode :Bandedge CH LOW  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-13  
 Temp./Humi. :22.6/66  
 Antenna Pol. :Vertical  
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2385.96	Average	45.89	0.59	46.48	54.00	-7.52
2385.96	Peak	61.08	0.59	61.67	74.00	-12.33
2390.00	Average	47.01	0.60	47.61	54.00	-6.39
2390.00	Peak	56.70	0.60	57.30	74.00	-16.70

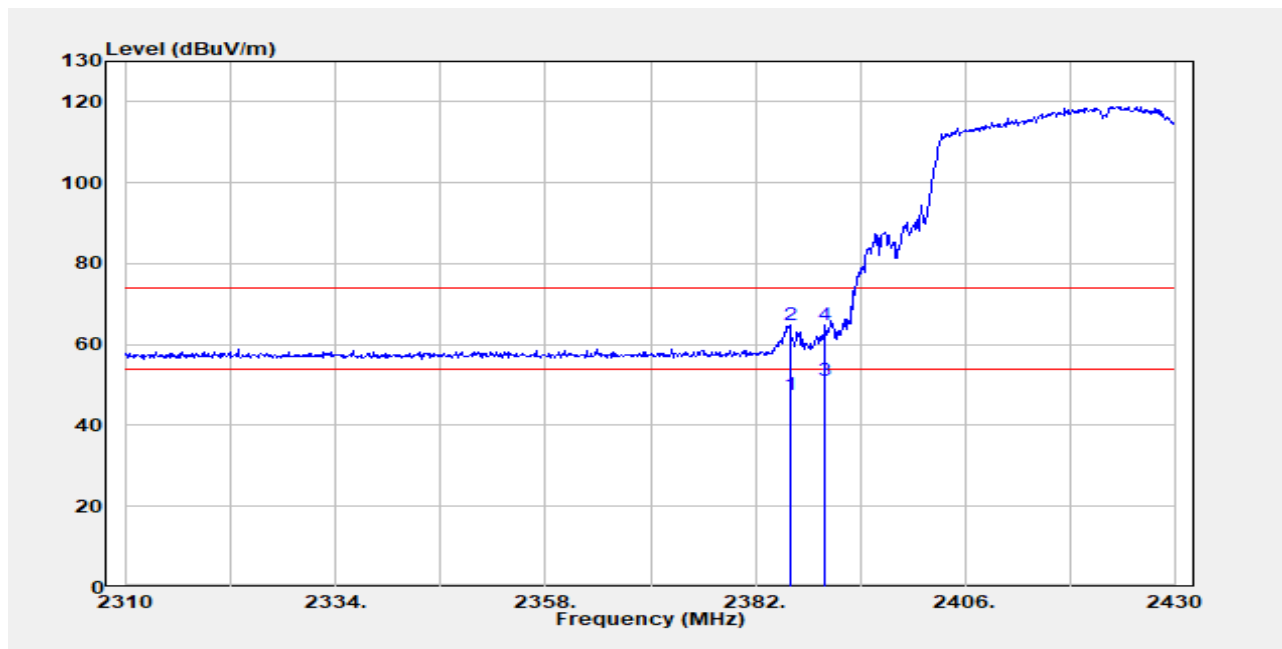
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Report Number :ER/2022/30037  
 Operation Mode :802.11ax40  
 Test Frequency :2422 MHz  
 Test Mode :Bandedge CH LOW  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-13  
 Temp./Humi. :22.6/66  
 Antenna Pol. :Horizontal  
 Engineer :GN Lin



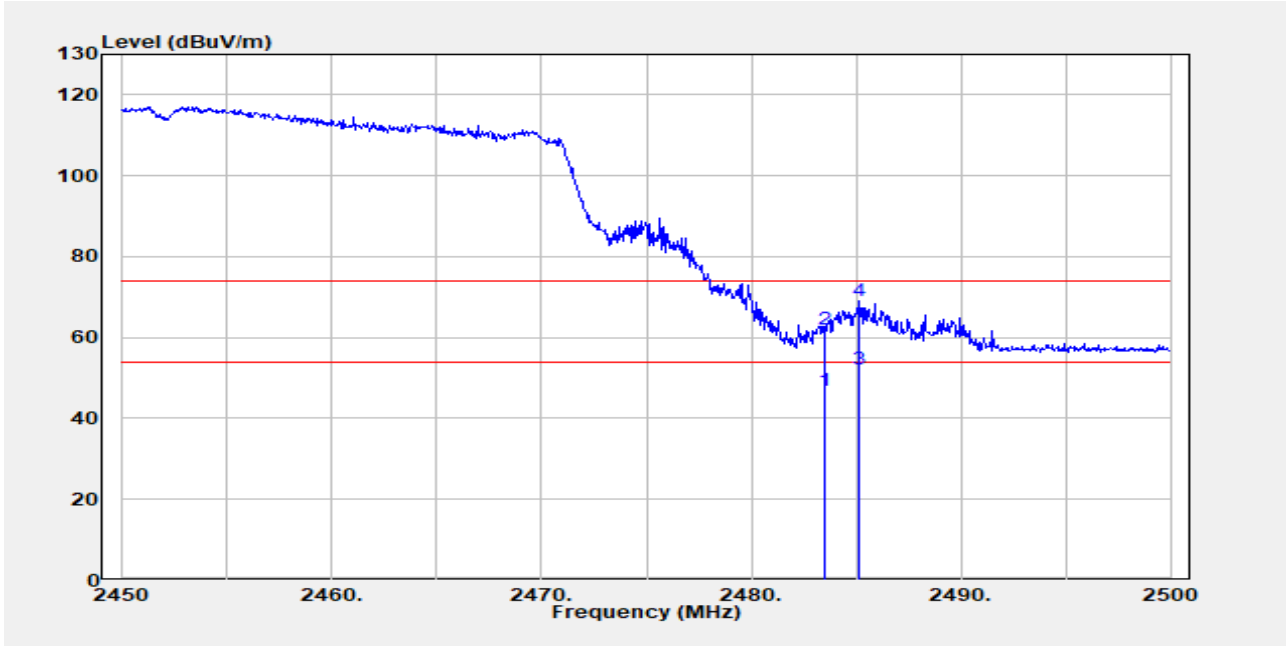
Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2385.96	Average	46.99	0.59	47.58	54.00	-6.42
2385.96	Peak	64.12	0.59	64.72	74.00	-9.28
2390.00	Average	50.52	0.60	51.12	54.00	-2.88
2390.00	Peak	64.06	0.60	64.66	74.00	-9.34

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Report Number	:ER/2022/30037	Test Site	:SAC 1
Operation Mode	:802.11ax40	Test Date	:2022-04-14
Test Frequency	:2452 MHz	Temp./Humi.	:22.6/66
Test Mode	:Bandedge CH HIGH	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:GN Lin



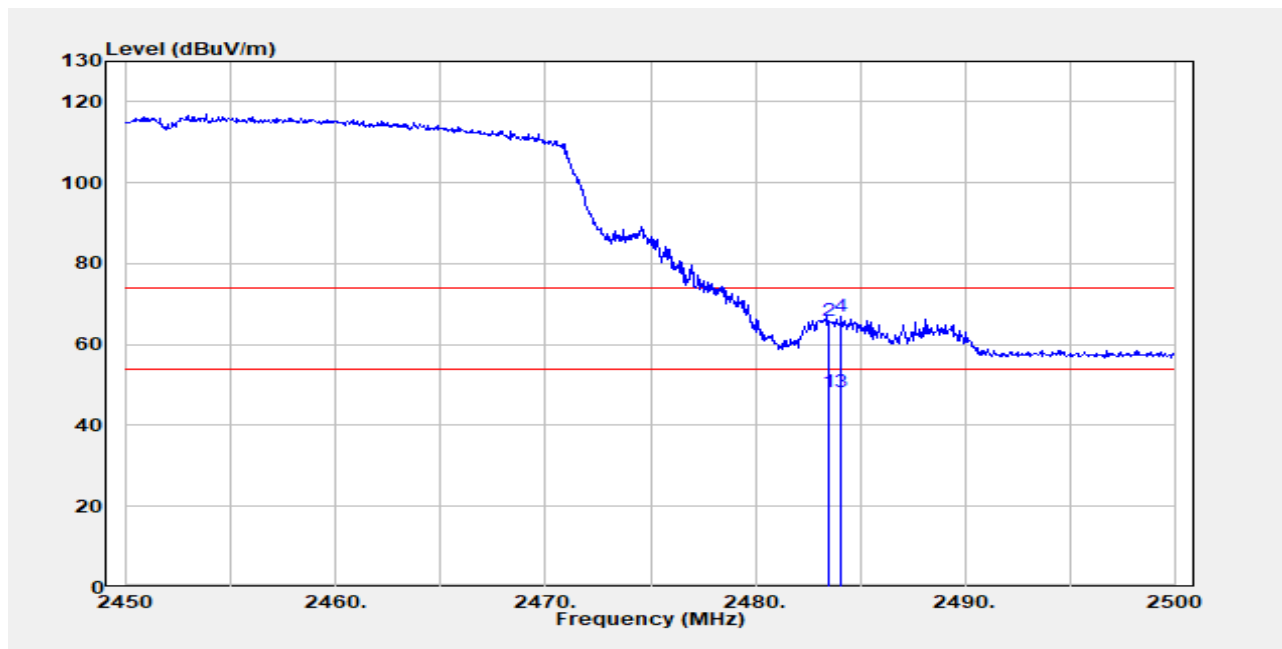
Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.50	Average	46.59	0.43	47.02	54.00	-6.98
2483.50	Peak	61.58	0.43	62.01	74.00	-11.99
2485.10	Average	51.87	0.44	52.31	54.00	-1.69
2485.10	Peak	68.54	0.44	68.97	74.00	-5.03

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Report Number	:ER/2022/30037	Test Site	:SAC 1
Operation Mode	:802.11ax40	Test Date	:2022-04-14
Test Frequency	:2452 MHz	Temp./Humi.	:22.6/66
Test Mode	:Bandedge CH HIGH	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.50	Average	47.67	0.43	48.10	54.00	-5.90
2483.50	Peak	65.59	0.43	66.01	74.00	-7.99
2484.10	Average	47.80	0.43	48.23	54.00	-5.77
2484.10	Peak	66.57	0.43	67.00	74.00	-7.00

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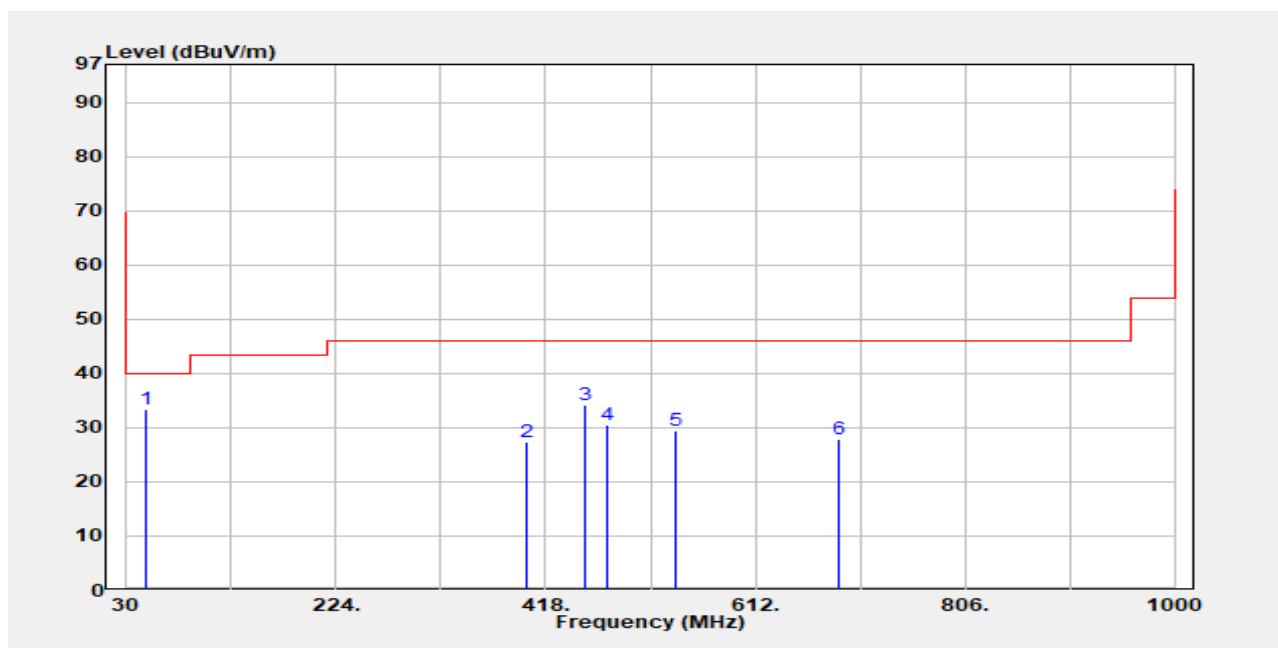
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### 11.6.3 Spurious Emission

Report Number :ER/2022/30037  
 Operation Mode :802.11g  
 Test Frequency :2437 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-03-15  
 Temp./Humi. :22.8/64  
 Antenna Pol. :VERTICAL  
 Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
47.75	QP	47.86	-14.51	33.34	40.00	-6.66
400.22	Peak	34.18	-6.91	27.27	46.00	-18.73
455.18	Peak	40.30	-6.10	34.20	46.00	-11.80
474.58	Peak	36.56	-6.03	30.53	46.00	-15.47
537.63	Peak	33.44	-4.00	29.44	46.00	-16.56
689.60	Peak	31.15	-3.25	27.90	46.00	-18.10

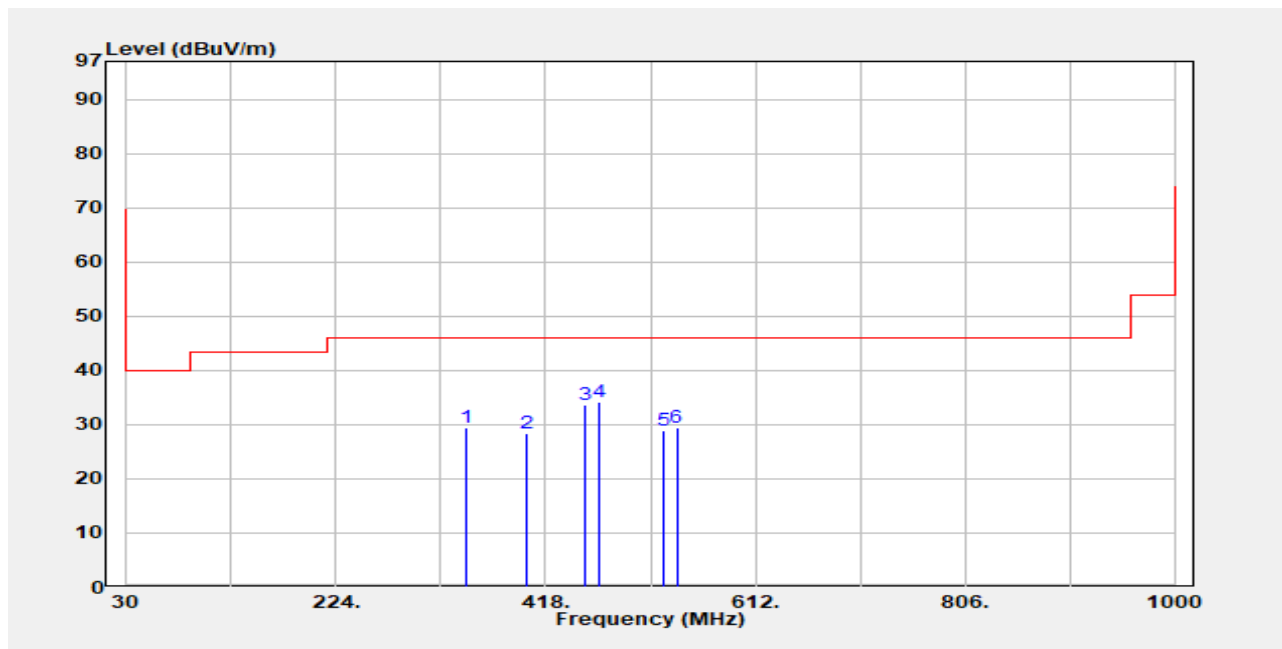
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Report Number :ER/2022/30037  
 Operation Mode :802.11g  
 Test Frequency :2437 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-03-15  
 Temp./Humi. :22.8/64  
 Antenna Pol. :HORIZONTAL  
 Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
343.63	Peak	37.88	-8.32	29.56	46.00	-16.44
400.22	Peak	35.34	-6.91	28.44	46.00	-17.56
453.57	Peak	39.78	-6.11	33.68	46.00	-12.32
468.12	Peak	40.26	-6.10	34.16	46.00	-11.84
526.32	Peak	34.11	-5.07	29.04	46.00	-16.96
539.25	Peak	33.24	-3.81	29.43	46.00	-16.57

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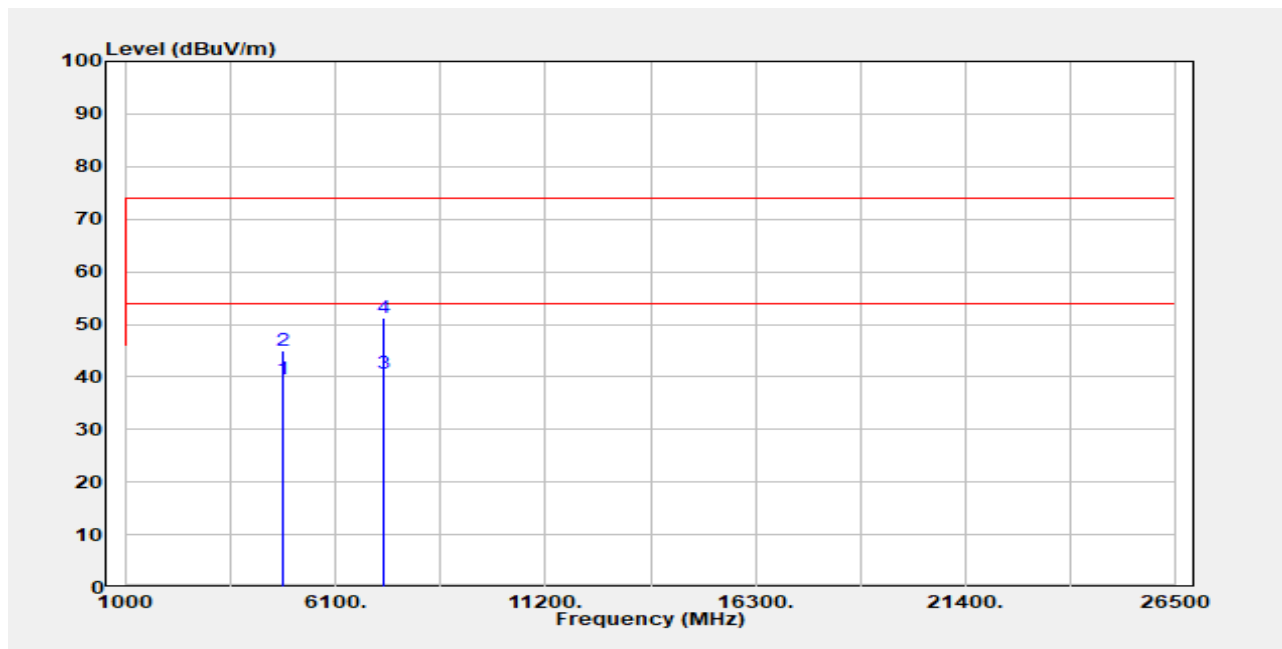
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Report Number :ER/2022/30037  
 Operation Mode :802.11b  
 Test Frequency :2412 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-08  
 Temp./Humi. :22.8/64  
 Antenna Pol. :Vertical  
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4824.00	Average	32.02	7.52	39.54	54.00	-14.46
4824.00	Peak	37.43	7.52	44.95	74.00	-29.05
7236.00	Average	25.85	14.82	40.67	54.00	-13.33
7236.00	Peak	36.38	14.82	51.20	74.00	-22.80

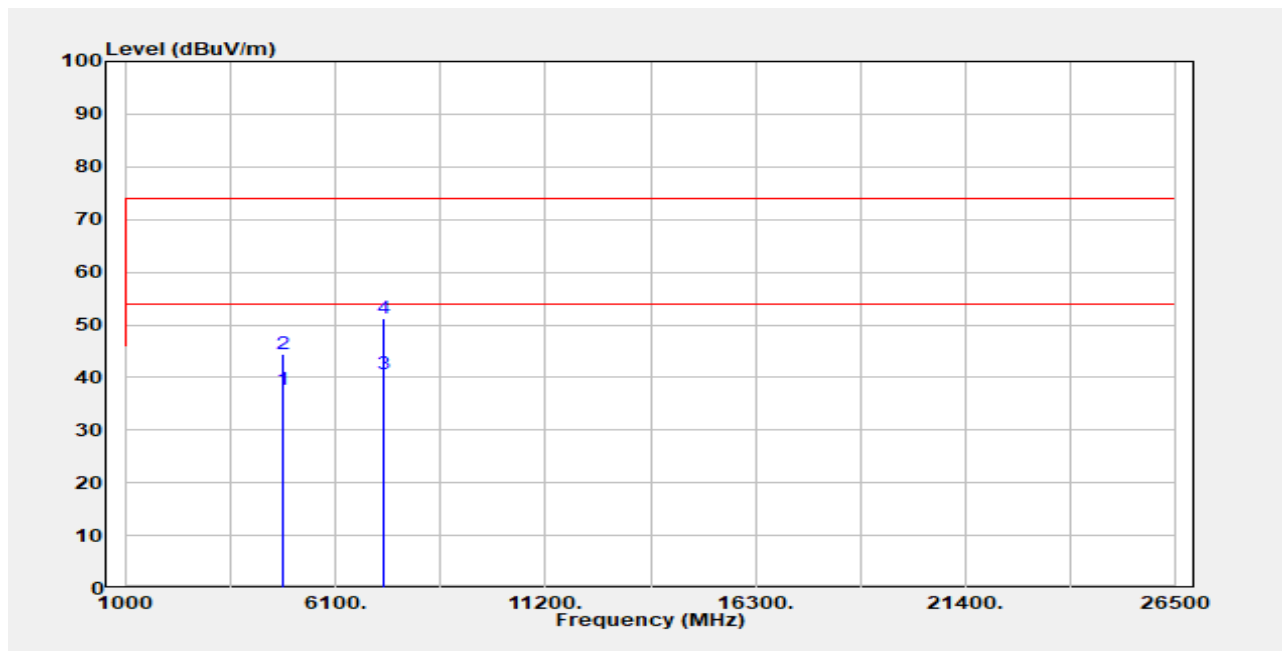
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Report Number :ER/2022/30037  
 Operation Mode :802.11b  
 Test Frequency :2412 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-08  
 Temp./Humi. :22.8/64  
 Antenna Pol. :Horizontal  
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4824.00	Average	30.03	7.52	37.55	54.00	-16.45
4824.00	Peak	36.82	7.52	44.34	74.00	-29.66
7236.00	Average	25.91	14.82	40.73	54.00	-13.27
7236.00	Peak	36.51	14.82	51.33	74.00	-22.67

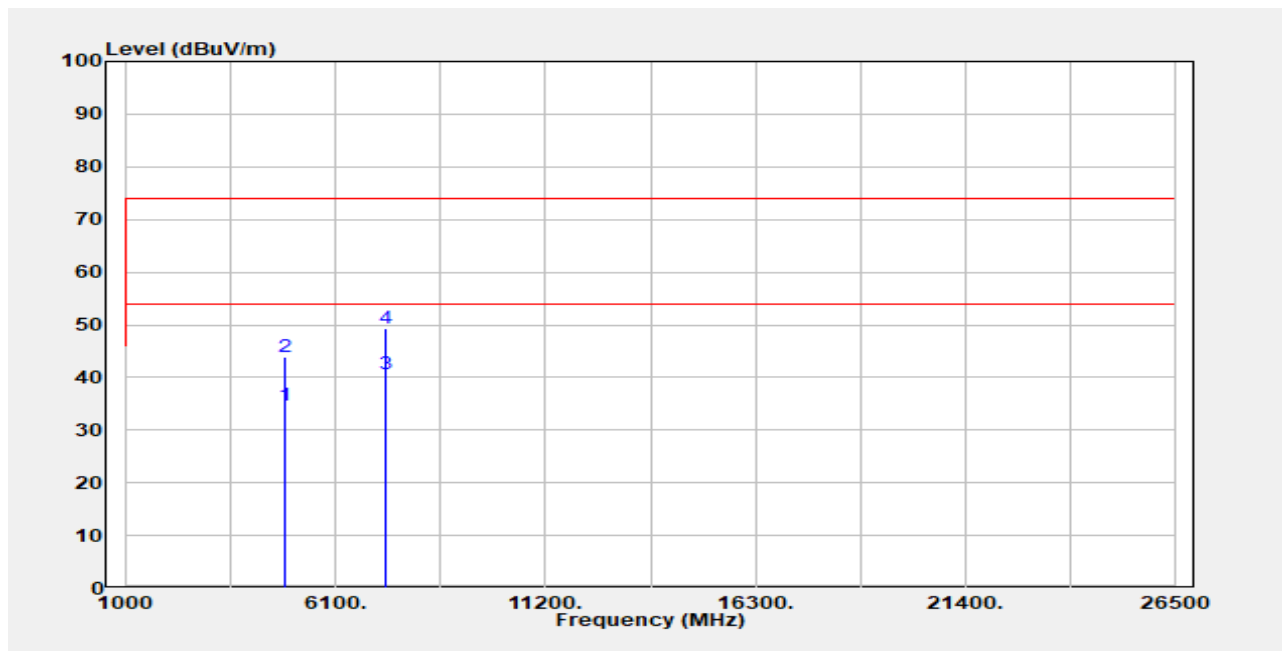
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Report Number :ER/2022/30037  
 Operation Mode :802.11b  
 Test Frequency :2437 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-08  
 Temp./Humi. :22.8/64  
 Antenna Pol. :Vertical  
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4874.00	Average	27.33	7.42	34.75	54.00	-19.25
4874.00	Peak	36.56	7.42	43.98	74.00	-30.02
7311.00	Average	25.85	14.87	40.72	54.00	-13.28
7311.00	Peak	34.48	14.87	49.35	74.00	-24.65

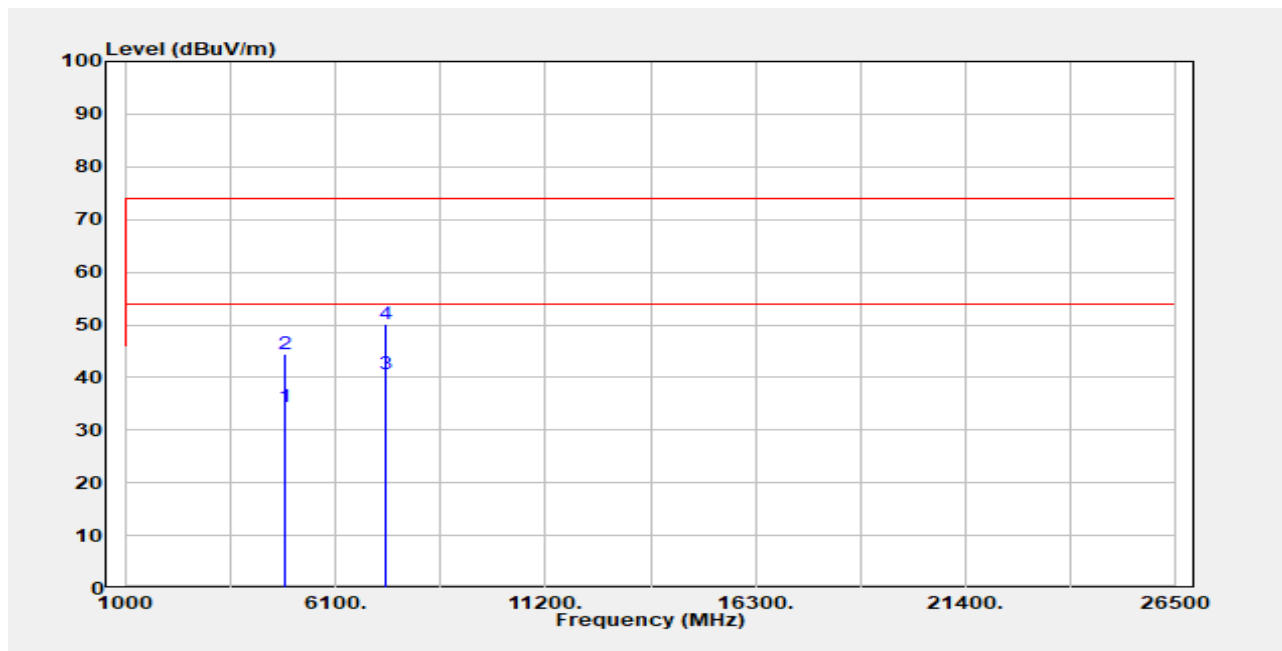
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Report Number :ER/2022/30037  
 Operation Mode :802.11b  
 Test Frequency :2437 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-08  
 Temp./Humi. :22.8/64  
 Antenna Pol. :Horizontal  
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4874.00	Average	26.99	7.42	34.41	54.00	-19.59
4874.00	Peak	37.10	7.42	44.52	74.00	-29.48
7311.00	Average	25.81	14.87	40.68	54.00	-13.32
7311.00	Peak	35.14	14.87	50.01	74.00	-23.99

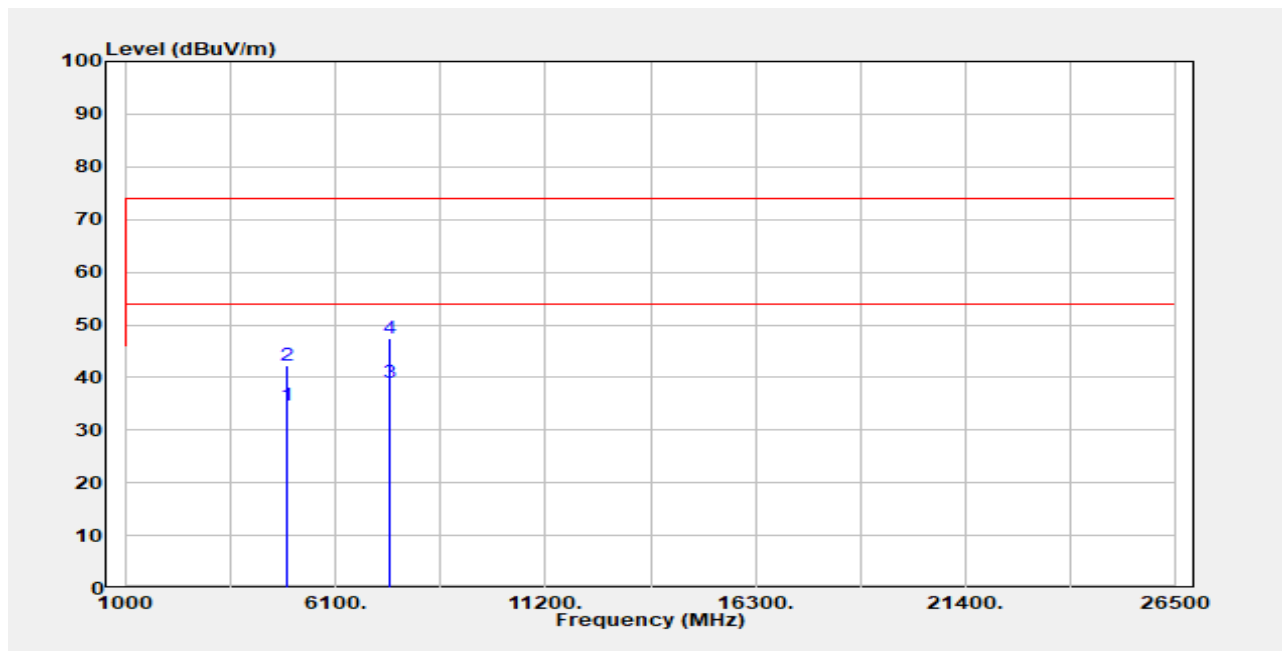
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Report Number :ER/2022/30037  
 Operation Mode :802.11b  
 Test Frequency :2462 MHz  
 Test Mode :Tx CH High  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-08  
 Temp./Humi. :22.8/64  
 Antenna Pol. :Vertical  
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4924.00	Average	27.23	7.48	34.71	54.00	-19.29
4924.00	Peak	34.92	7.48	42.40	74.00	-31.60
7386.00	Average	24.11	14.83	38.94	54.00	-15.06
7386.00	Peak	32.66	14.83	47.49	74.00	-26.51

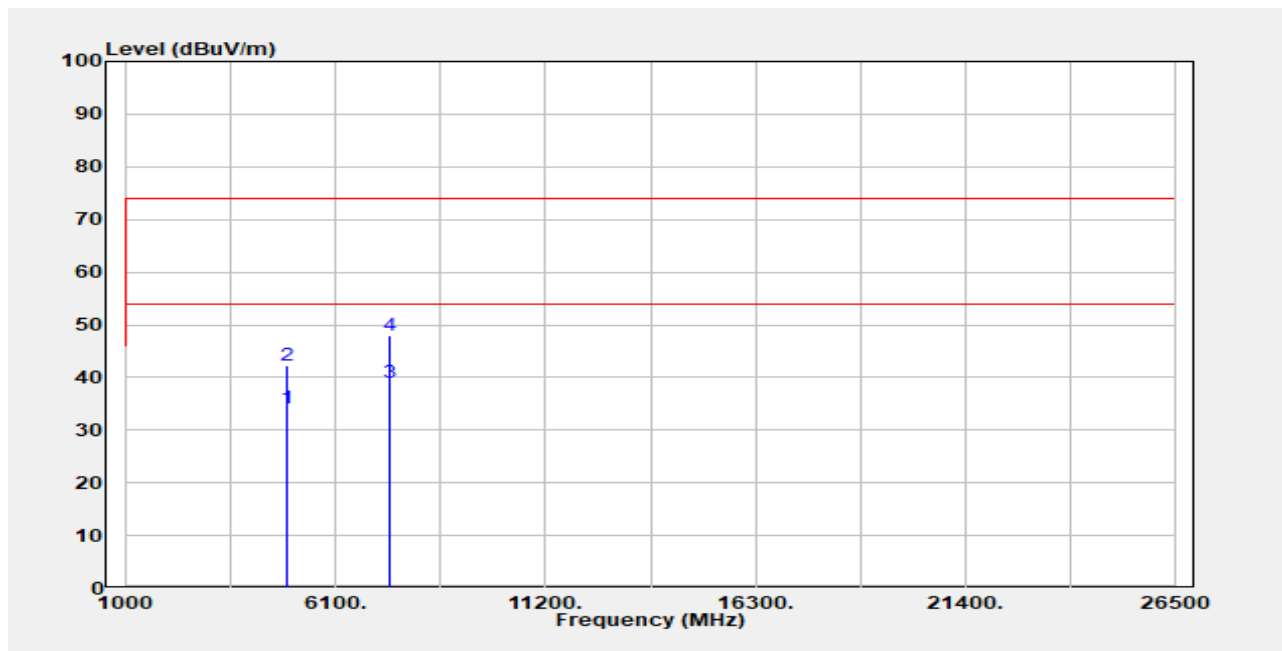
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Report Number :ER/2022/30037  
 Operation Mode :802.11b  
 Test Frequency :2462 MHz  
 Test Mode :Tx CH High  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-08  
 Temp./Humi. :22.8/64  
 Antenna Pol. :Horizontal  
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4924.00	Average	26.58	7.48	34.06	54.00	-19.94
4924.00	Peak	34.74	7.48	42.22	74.00	-31.78
7386.00	Average	24.15	14.83	38.98	54.00	-15.02
7386.00	Peak	33.27	14.83	48.10	74.00	-25.90

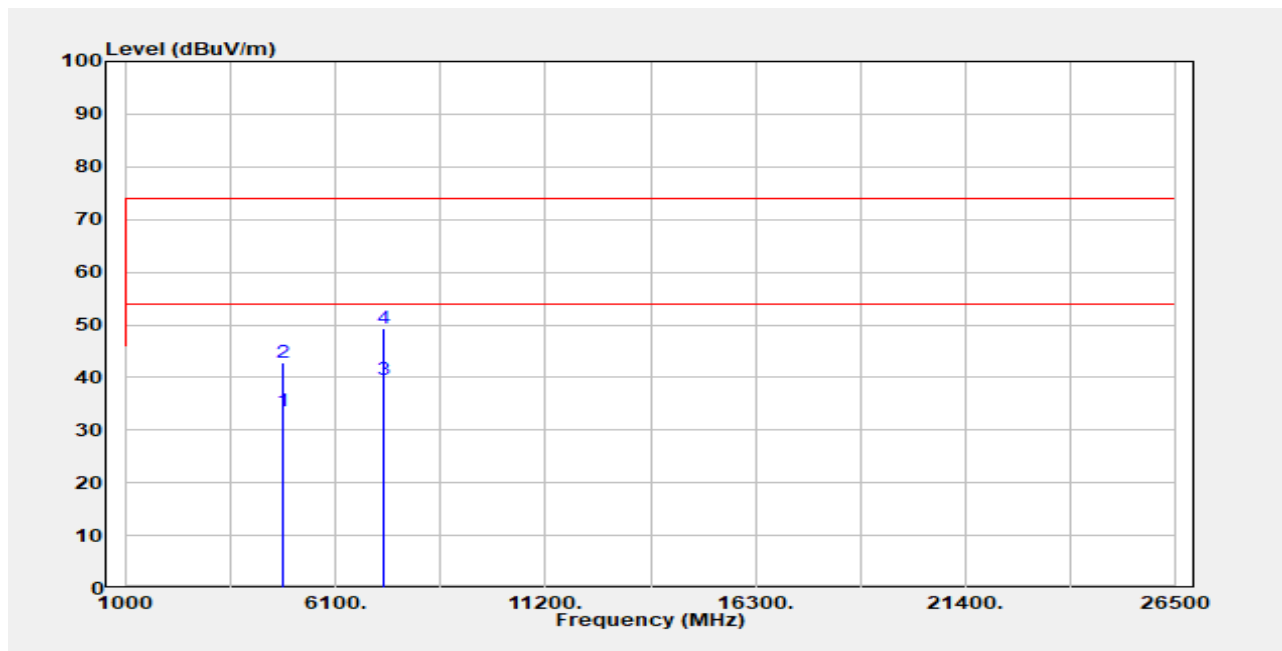
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Report Number :ER/2022/30037  
 Operation Mode :802.11g  
 Test Frequency :2412 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-08  
 Temp./Humi. :22.8/64  
 Antenna Pol. :Vertical  
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4824.00	Average	26.03	7.52	33.55	54.00	-20.45
4824.00	Peak	35.23	7.52	42.75	74.00	-31.25
7236.00	Average	24.73	14.82	39.55	54.00	-14.45
7236.00	Peak	34.44	14.82	49.26	74.00	-24.74

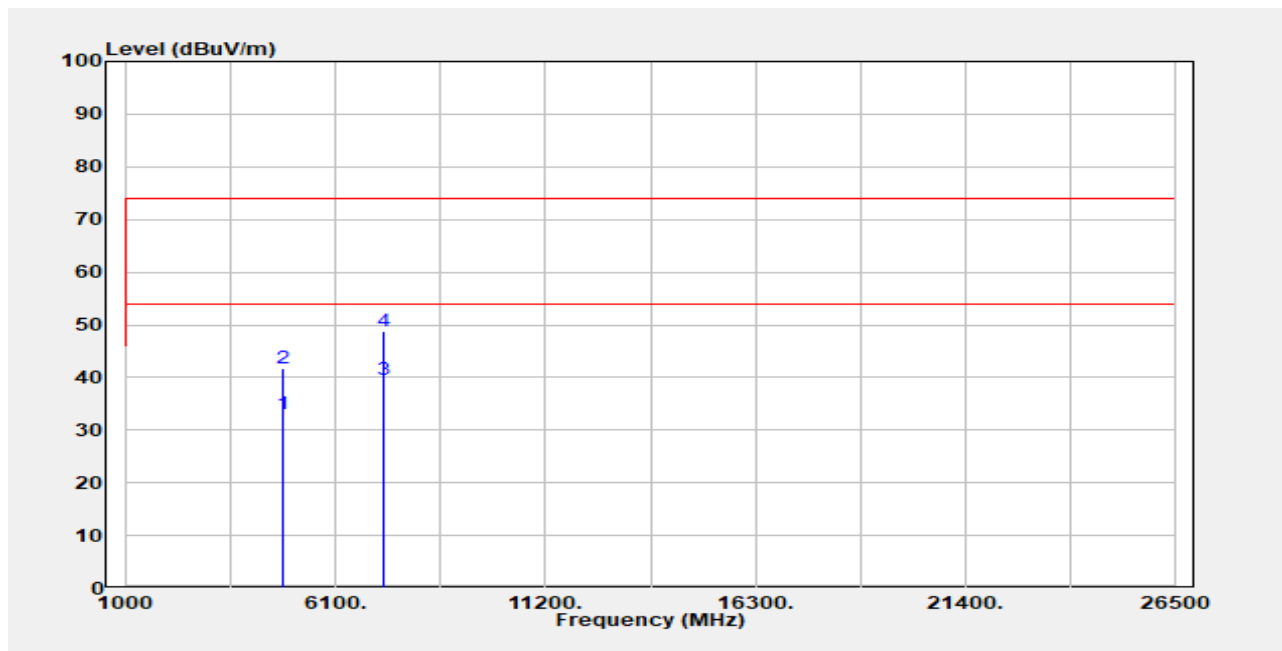
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Report Number :ER/2022/30037  
 Operation Mode :802.11g  
 Test Frequency :2412 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-08  
 Temp./Humi. :22.8/64  
 Antenna Pol. :Horizontal  
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4824.00	Average	25.51	7.52	33.03	54.00	-20.97
4824.00	Peak	34.27	7.52	41.79	74.00	-32.21
7236.00	Average	24.67	14.82	39.49	54.00	-14.51
7236.00	Peak	34.08	14.82	48.89	74.00	-25.11

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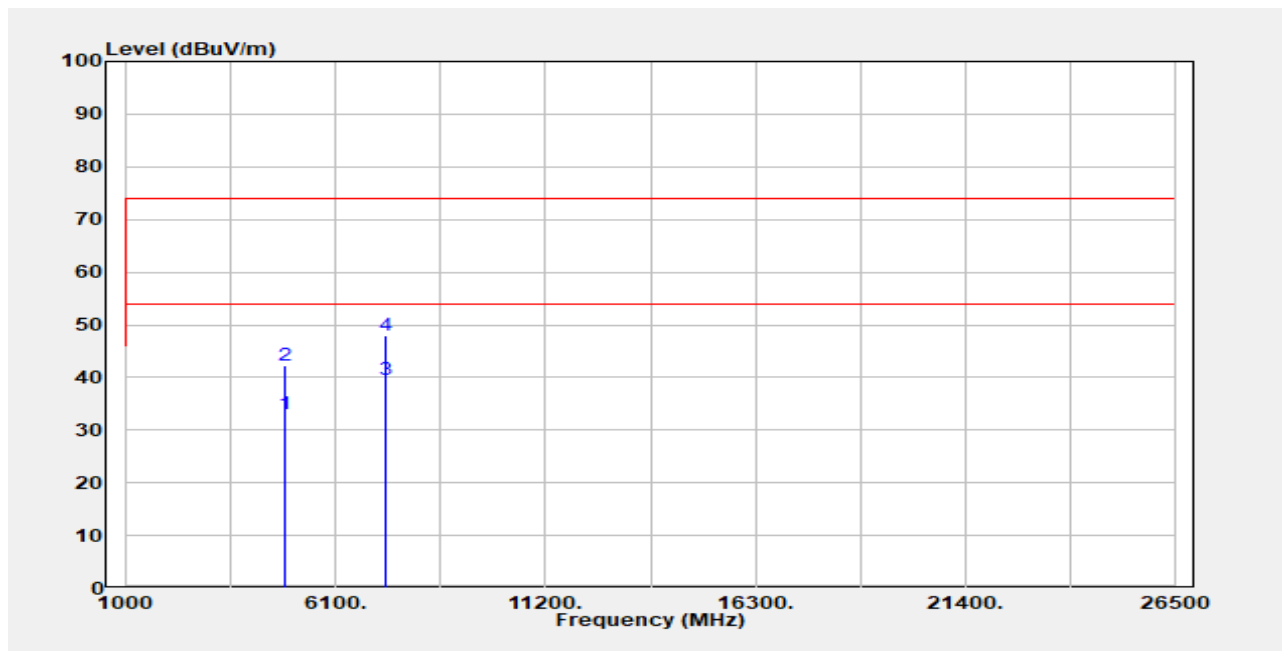
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Report Number :ER/2022/30037  
 Operation Mode :802.11g  
 Test Frequency :2437 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-08  
 Temp./Humi. :22.8/64  
 Antenna Pol. :Vertical  
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4874.00	Average	25.65	7.42	33.07	54.00	-20.93
4874.00	Peak	34.97	7.42	42.39	74.00	-31.61
7311.00	Average	24.57	14.87	39.44	54.00	-14.56
7311.00	Peak	32.98	14.87	47.85	74.00	-26.15

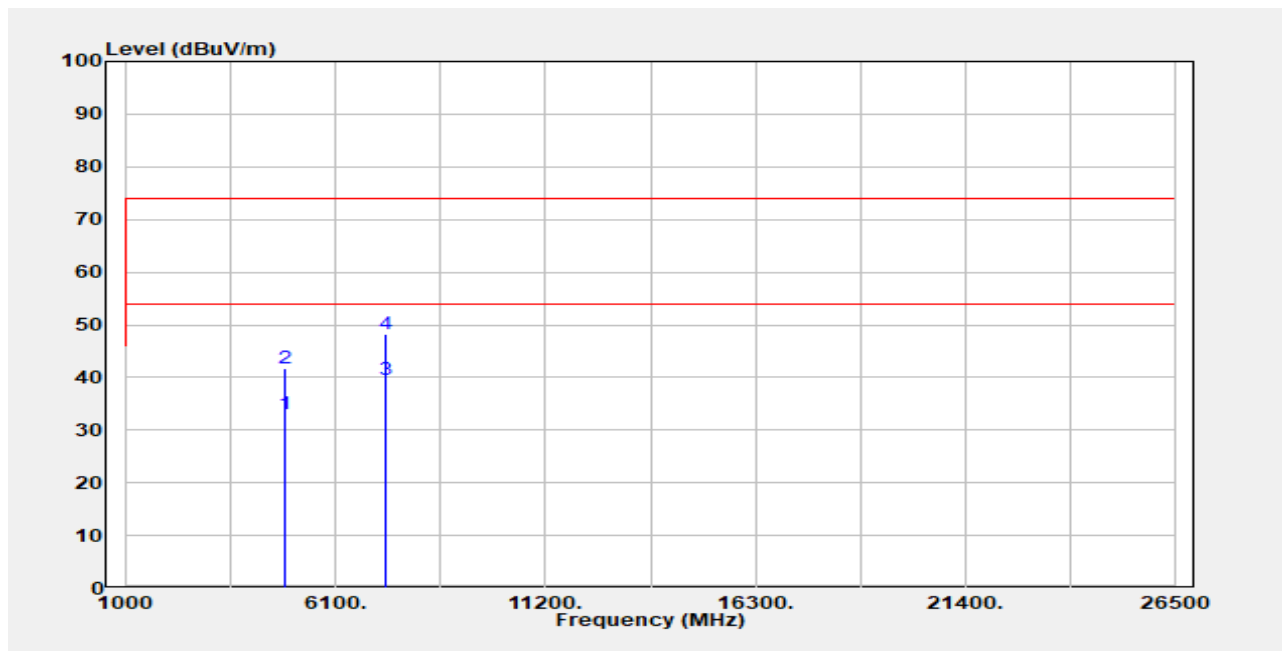
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Report Number :ER/2022/30037  
 Operation Mode :802.11g  
 Test Frequency :2437 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-08  
 Temp./Humi. :22.8/64  
 Antenna Pol. :Horizontal  
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4874.00	Average	25.68	7.42	33.10	54.00	-20.90
4874.00	Peak	34.40	7.42	41.82	74.00	-32.18
7311.00	Average	24.76	14.87	39.63	54.00	-14.37
7311.00	Peak	33.43	14.87	48.30	74.00	-25.70

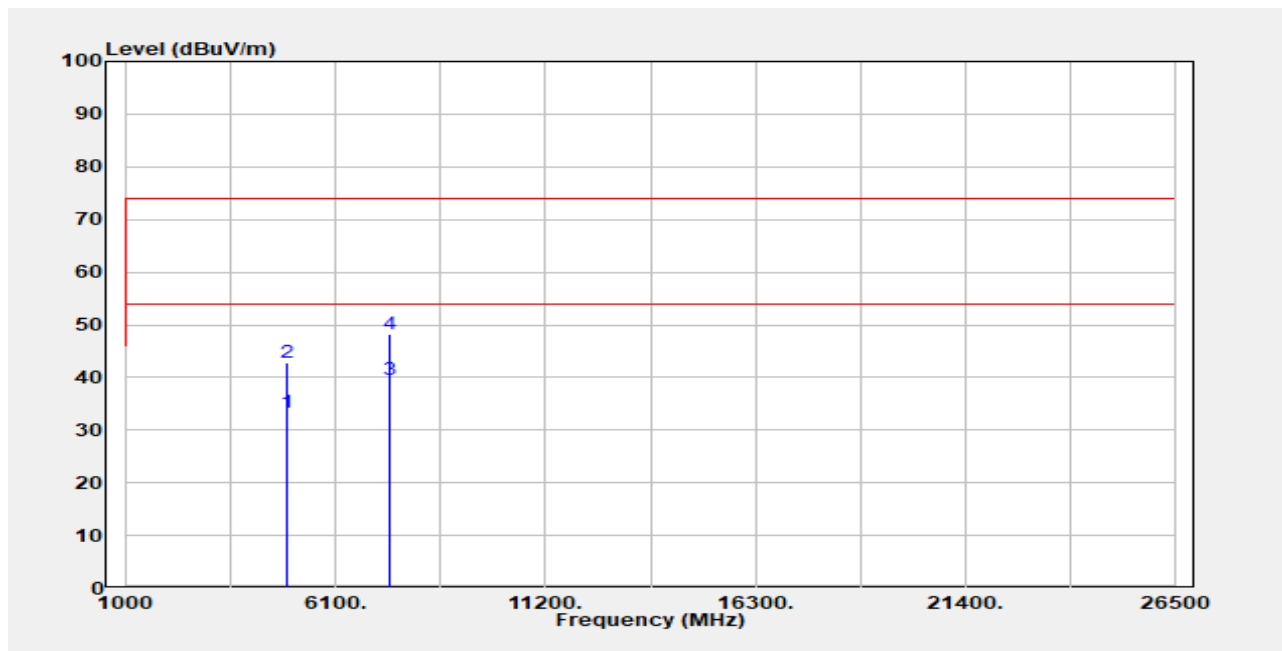
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Report Number :ER/2022/30037  
 Operation Mode :802.11g  
 Test Frequency :2462 MHz  
 Test Mode :Tx CH High  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-08  
 Temp./Humi. :22.8/64  
 Antenna Pol. :Vertical  
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4924.00	Average	25.98	7.48	33.46	54.00	-20.54
4924.00	Peak	35.46	7.48	42.94	74.00	-31.06
7386.00	Average	24.74	14.83	39.57	54.00	-14.43
7386.00	Peak	33.30	14.83	48.13	74.00	-25.87

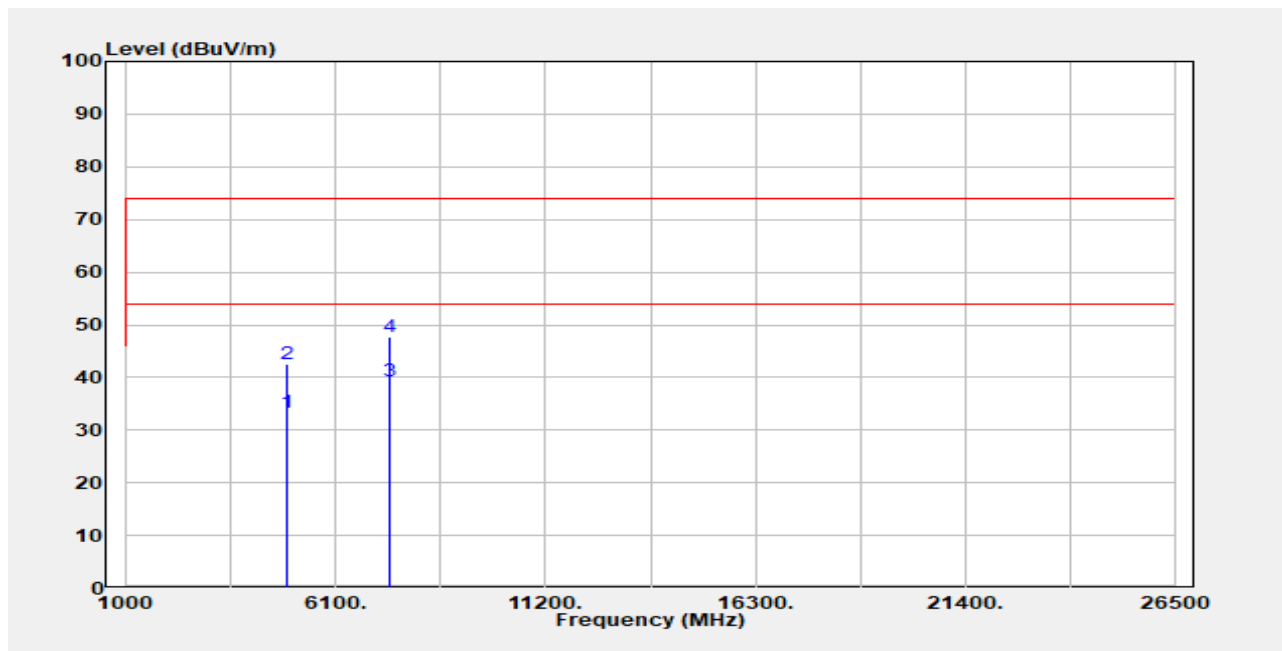
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Report Number :ER/2022/30037  
 Operation Mode :802.11g  
 Test Frequency :2462 MHz  
 Test Mode :Tx CH High  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-08  
 Temp./Humi. :22.8/64  
 Antenna Pol. :Horizontal  
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4924.00	Average	25.96	7.48	33.44	54.00	-20.56
4924.00	Peak	35.13	7.48	42.61	74.00	-31.39
7386.00	Average	24.56	14.83	39.39	54.00	-14.61
7386.00	Peak	32.82	14.83	47.65	74.00	-26.35

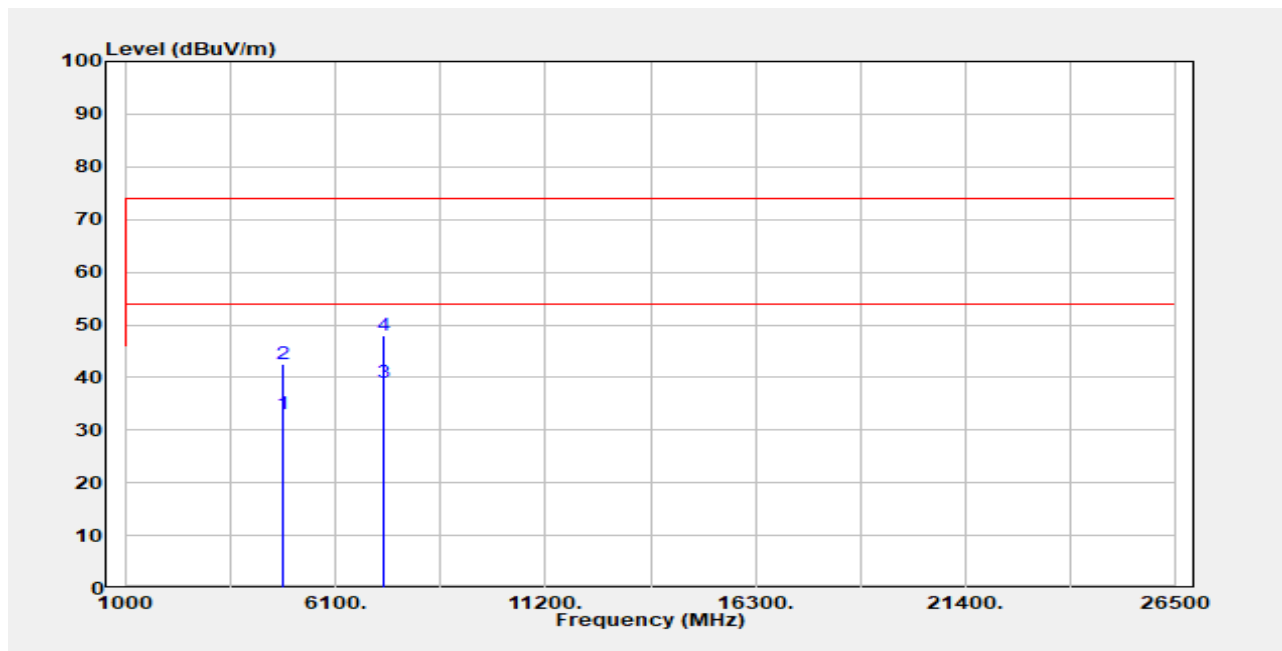
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Report Number :ER/2022/30037  
 Operation Mode :802.11n20  
 Test Frequency :2412 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-08  
 Temp./Humi. :22.8/64  
 Antenna Pol. :Vertical  
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4824.00	Average	25.51	7.52	33.03	54.00	-20.97
4824.00	Peak	35.12	7.52	42.64	74.00	-31.36
7236.00	Average	24.15	14.82	38.97	54.00	-15.03
7236.00	Peak	33.10	14.82	47.92	74.00	-26.08

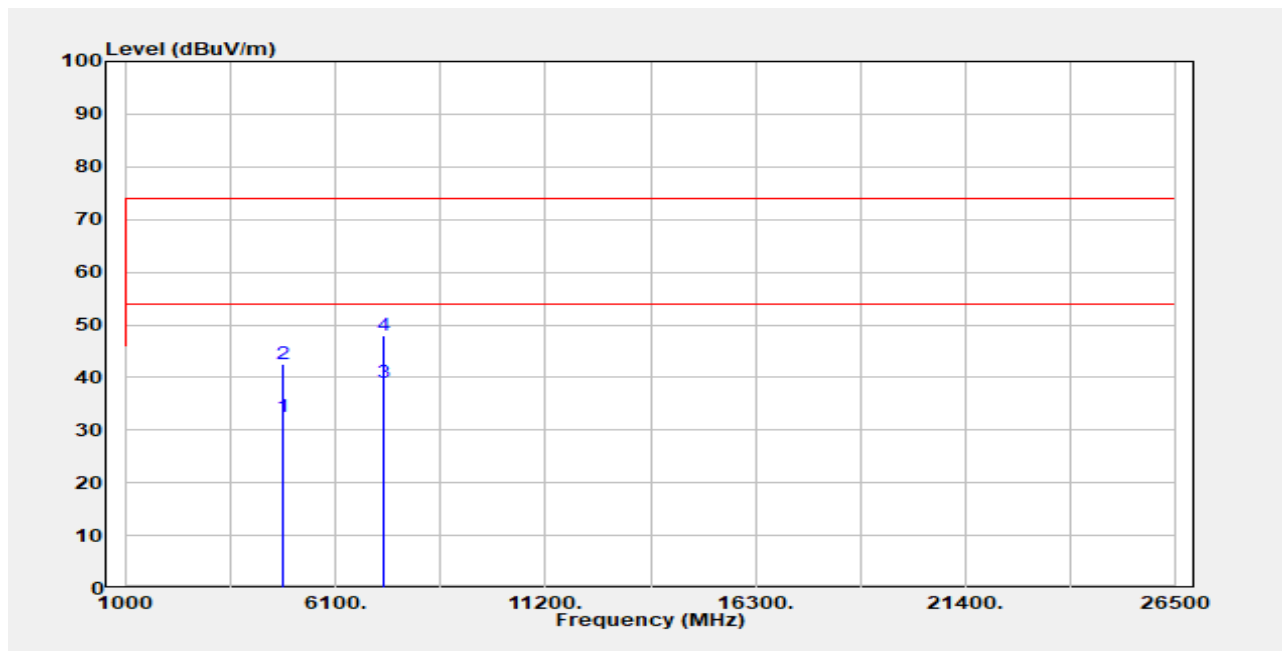
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Report Number :ER/2022/30037  
 Operation Mode :802.11n20  
 Test Frequency :2412 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-08  
 Temp./Humi. :22.8/64  
 Antenna Pol. :Horizontal  
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4824.00	Average	25.08	7.52	32.60	54.00	-21.40
4824.00	Peak	35.15	7.52	42.67	74.00	-31.33
7236.00	Average	24.13	14.82	38.95	54.00	-15.05
7236.00	Peak	33.10	14.82	47.92	74.00	-26.08

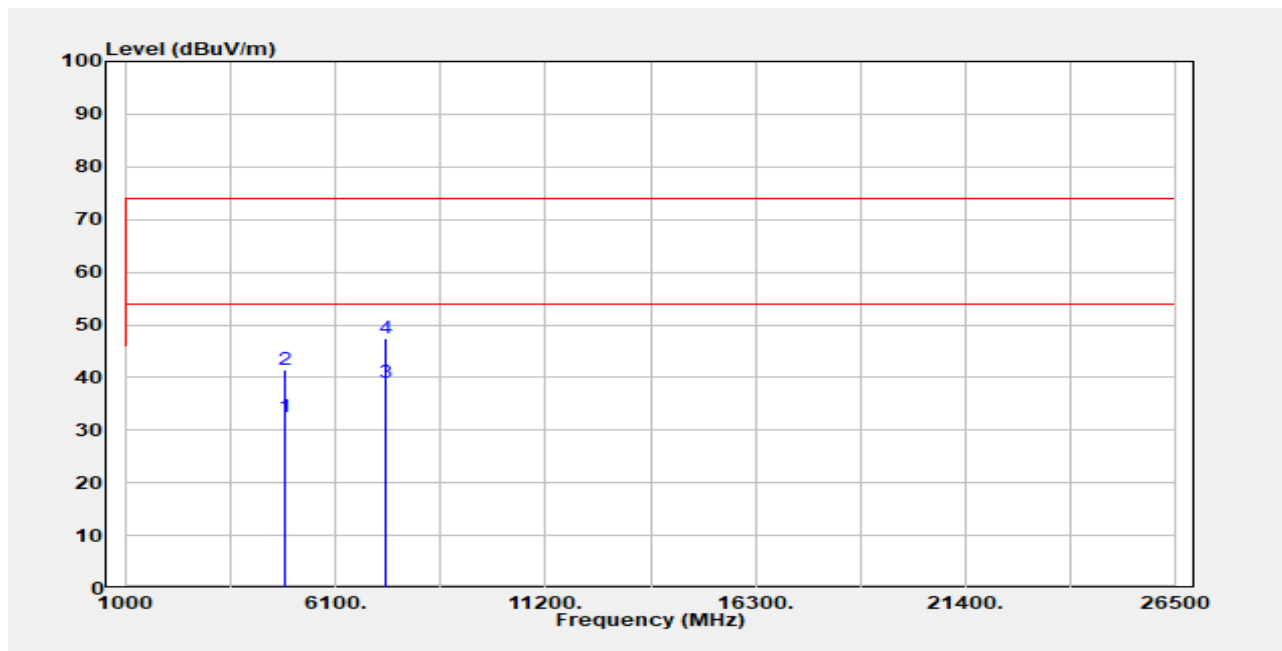
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Report Number :ER/2022/30037  
 Operation Mode :802.11n20  
 Test Frequency :2437 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-08  
 Temp./Humi. :22.8/64  
 Antenna Pol. :Vertical  
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4874.00	Average	25.19	7.42	32.61	54.00	-21.39
4874.00	Peak	33.92	7.42	41.33	74.00	-32.67
7311.00	Average	24.16	14.87	39.03	54.00	-14.97
7311.00	Peak	32.63	14.87	47.50	74.00	-26.50

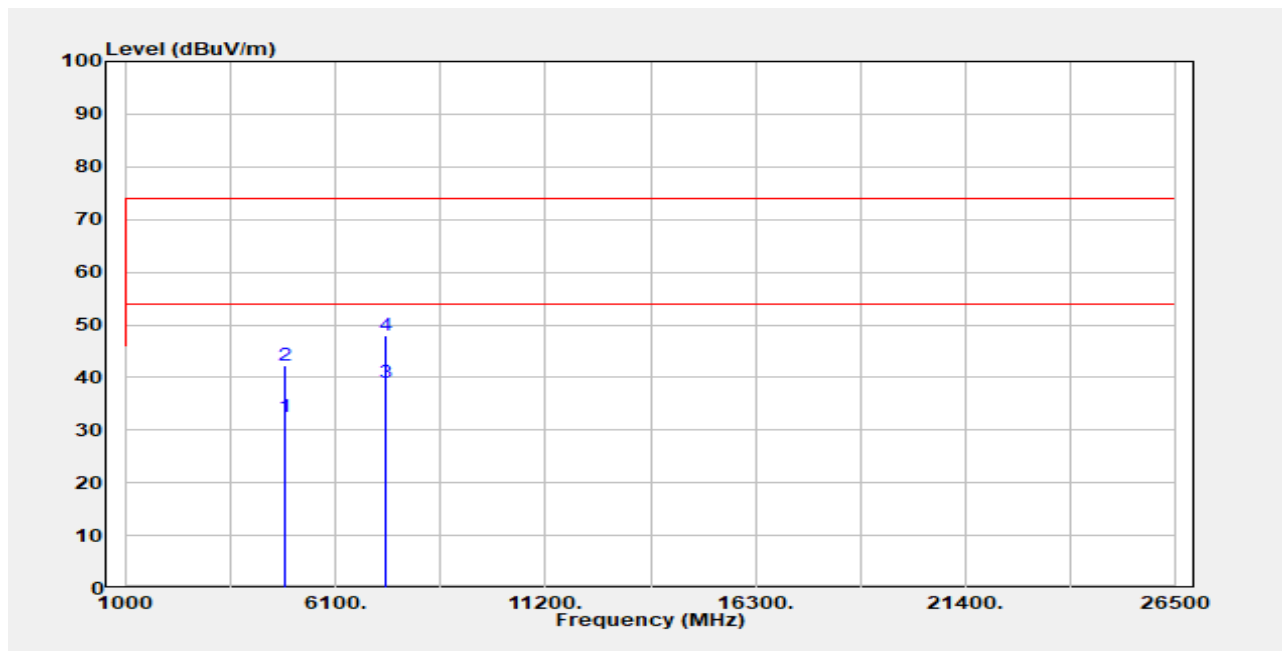
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Report Number :ER/2022/30037  
 Operation Mode :802.11n20  
 Test Frequency :2437 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-08  
 Temp./Humi. :22.8/64  
 Antenna Pol. :Horizontal  
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4874.00	Average	25.13	7.42	32.55	54.00	-21.45
4874.00	Peak	34.76	7.42	42.17	74.00	-31.83
7311.00	Average	24.14	14.87	39.01	54.00	-14.99
7311.00	Peak	33.00	14.87	47.87	74.00	-26.13

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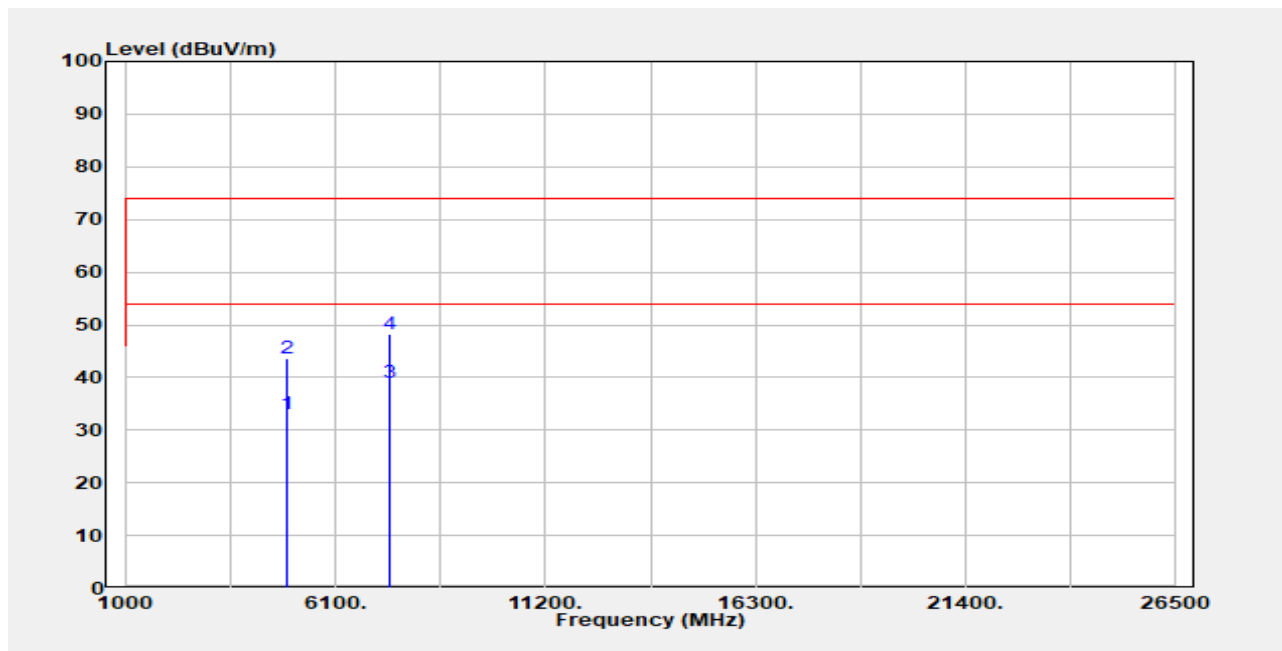
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Report Number :ER/2022/30037  
 Operation Mode :802.11n20  
 Test Frequency :2462 MHz  
 Test Mode :Tx CH High  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-08  
 Temp./Humi. :22.8/64  
 Antenna Pol. :Vertical  
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4924.00	Average	25.47	7.48	32.95	54.00	-21.05
4924.00	Peak	36.15	7.48	43.63	74.00	-30.37
7386.00	Average	24.12	14.83	38.95	54.00	-15.05
7386.00	Peak	33.29	14.83	48.12	74.00	-25.88

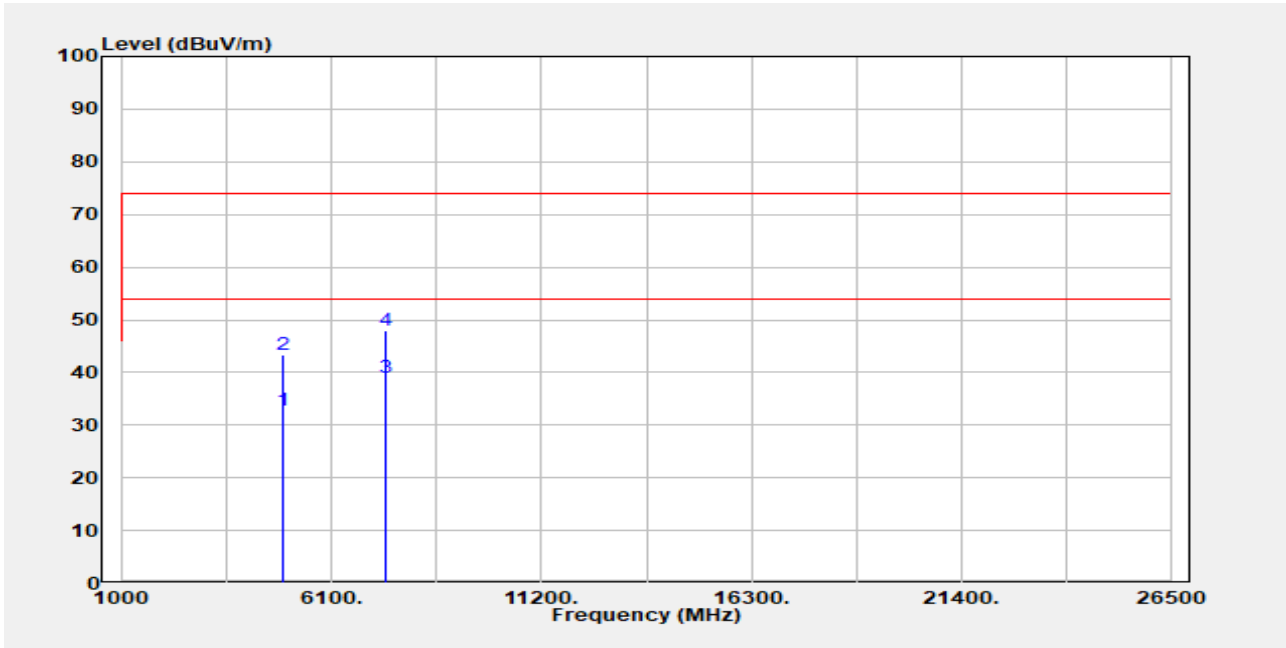
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Report Number :ER/2022/30037  
 Operation Mode :802.11n20  
 Test Frequency :2462 MHz  
 Test Mode :Tx CH High  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-08  
 Temp./Humi. :22.8/64  
 Antenna Pol. :Horizontal  
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4924.00	Average	25.38	7.48	32.86	54.00	-21.14
4924.00	Peak	35.82	7.48	43.30	74.00	-30.70
7386.00	Average	24.14	14.83	38.97	54.00	-15.03
7386.00	Peak	33.08	14.83	47.91	74.00	-26.09

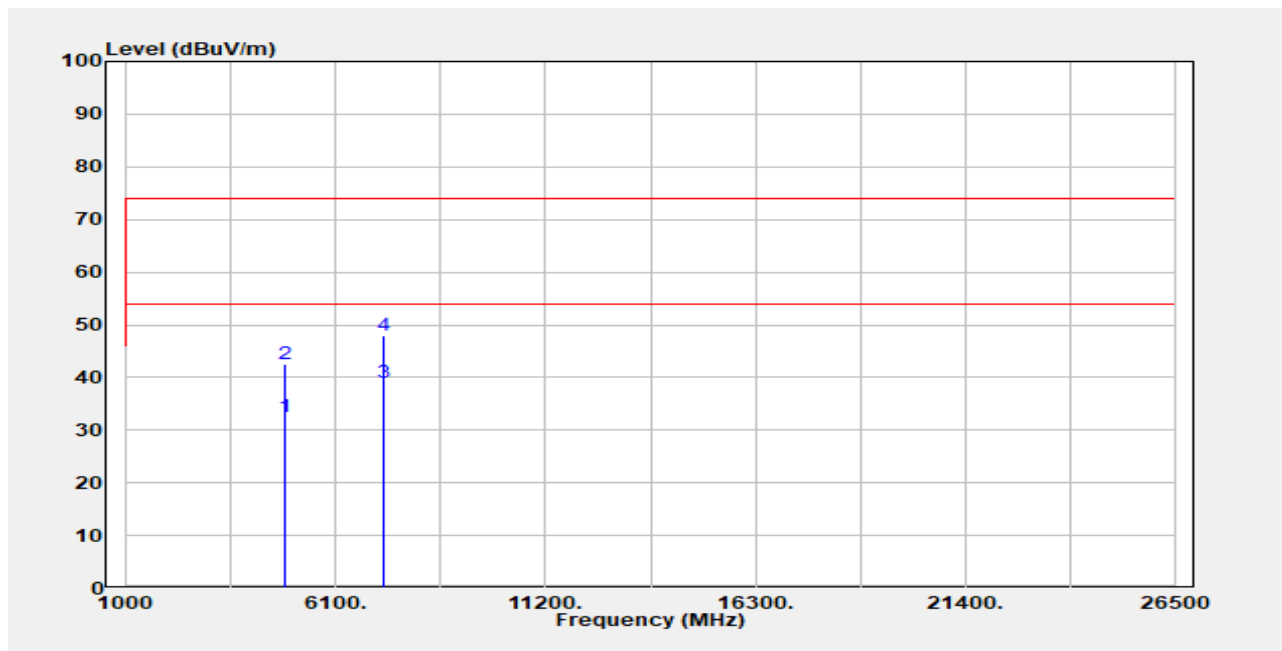
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Report Number :ER/2022/30037  
 Operation Mode :802.11n40  
 Test Frequency :2422 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-08  
 Temp./Humi. :22.8/64  
 Antenna Pol. :Vertical  
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4844.00	Average	24.90	7.64	32.54	54.00	-21.46
4844.00	Peak	34.95	7.64	42.59	74.00	-31.41
7266.00	Average	24.23	14.86	39.09	54.00	-14.91
7266.00	Peak	33.04	14.86	47.90	74.00	-26.10

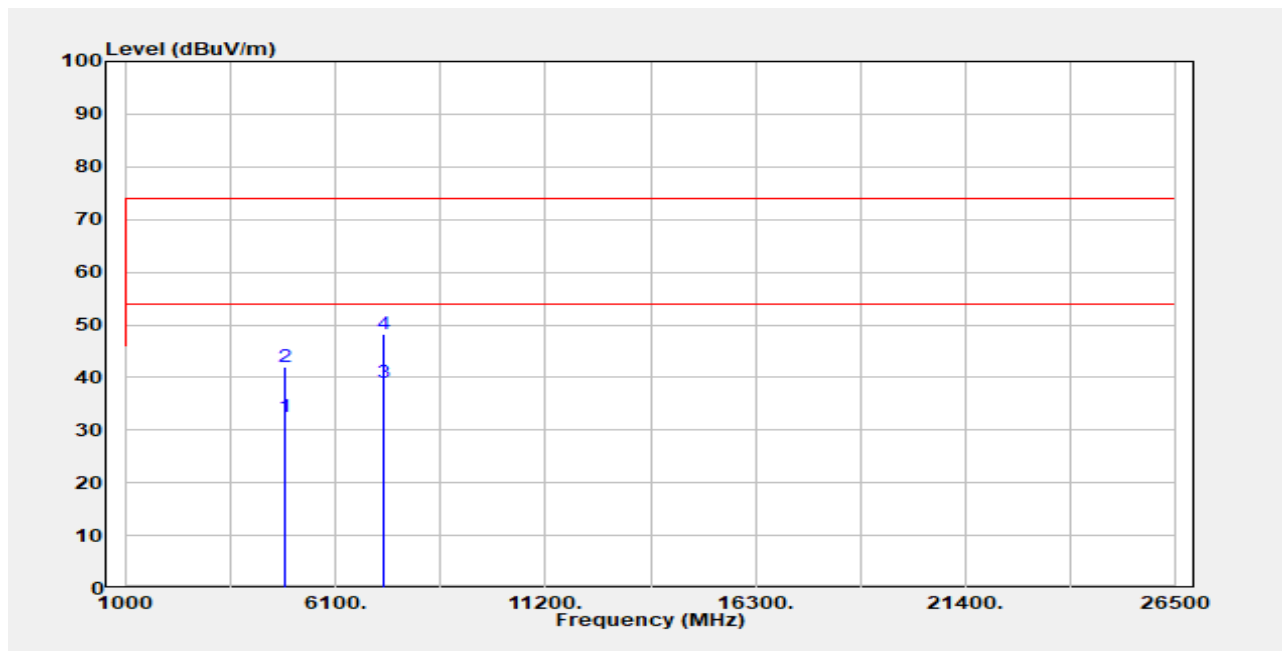
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Report Number :ER/2022/30037  
 Operation Mode :802.11n40  
 Test Frequency :2422 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-08  
 Temp./Humi. :22.8/64  
 Antenna Pol. :Horizontal  
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4844.00	Average	24.88	7.64	32.52	54.00	-21.48
4844.00	Peak	34.42	7.64	42.05	74.00	-31.95
7266.00	Average	24.22	14.86	39.08	54.00	-14.92
7266.00	Peak	33.45	14.86	48.31	74.00	-25.69

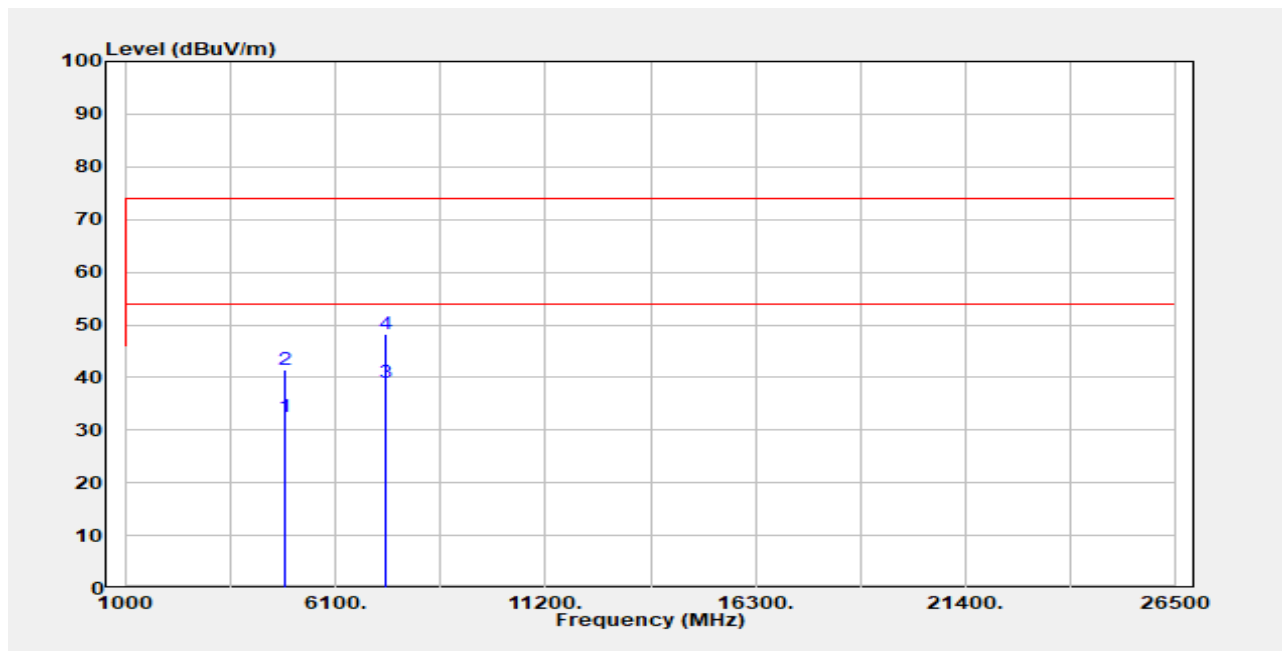
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Report Number :ER/2022/30037  
 Operation Mode :802.11n40  
 Test Frequency :2437 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-08  
 Temp./Humi. :22.8/64  
 Antenna Pol. :Vertical  
 Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4874.00	Average	25.18	7.42	32.60	54.00	-21.40
4874.00	Peak	33.99	7.42	41.41	74.00	-32.59
7311.00	Average	24.19	14.87	39.06	54.00	-14.94
7311.00	Peak	33.33	14.87	48.20	74.00	-25.80

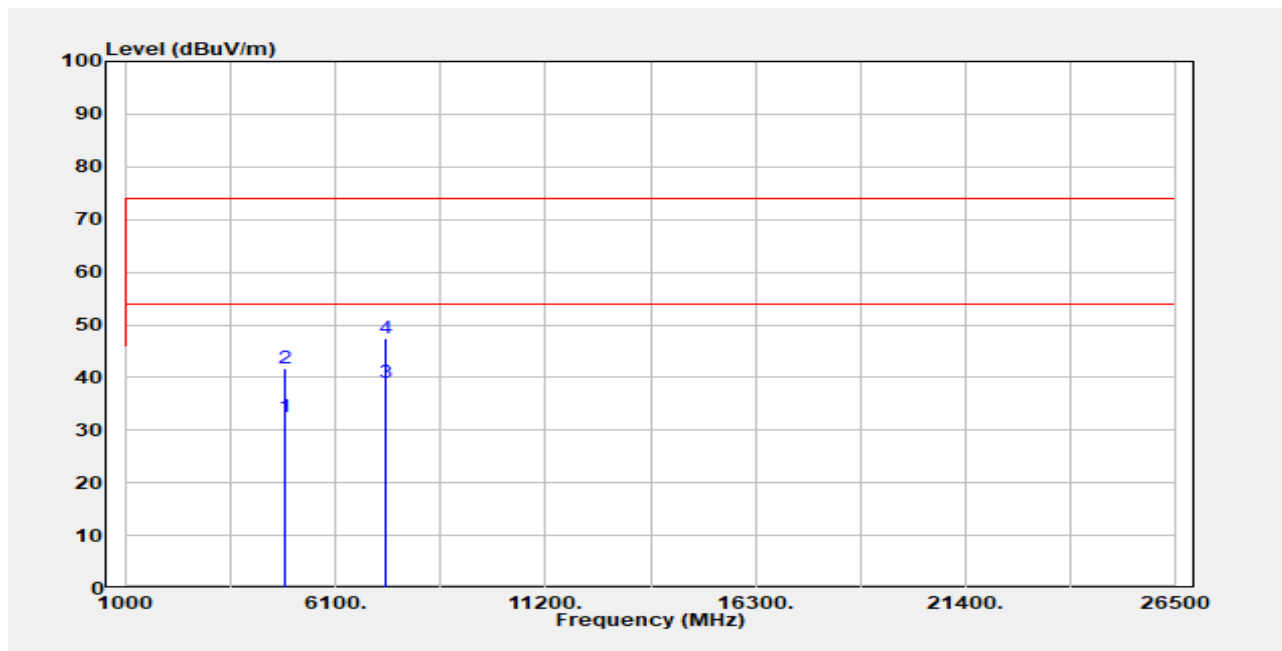
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Report Number :ER/2022/30037  
 Operation Mode :802.11n40  
 Test Frequency :2437 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-08  
 Temp./Humi. :22.8/64  
 Antenna Pol. :Horizontal  
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4874.00	Average	25.19	7.42	32.61	54.00	-21.39
4874.00	Peak	34.23	7.42	41.65	74.00	-32.35
7311.00	Average	24.25	14.87	39.12	54.00	-14.88
7311.00	Peak	32.54	14.87	47.41	74.00	-26.59

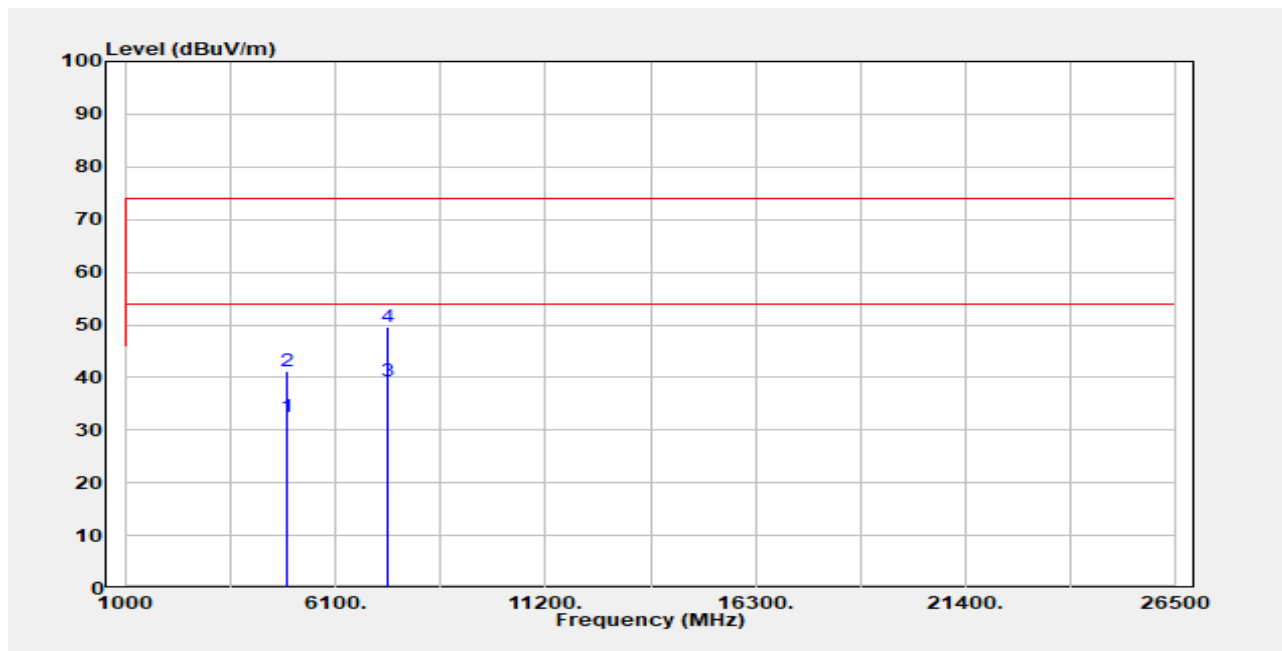
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Report Number :ER/2022/30037  
 Operation Mode :802.11n40  
 Test Frequency :2452 MHz  
 Test Mode :Tx CH High  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-08  
 Temp./Humi. :22.8/64  
 Antenna Pol. :Vertical  
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4904.00	Average	25.38	7.20	32.58	54.00	-21.42
4904.00	Peak	34.06	7.20	41.26	74.00	-32.74
7356.00	Average	24.11	15.06	39.17	54.00	-14.83
7356.00	Peak	34.59	15.06	49.65	74.00	-24.35

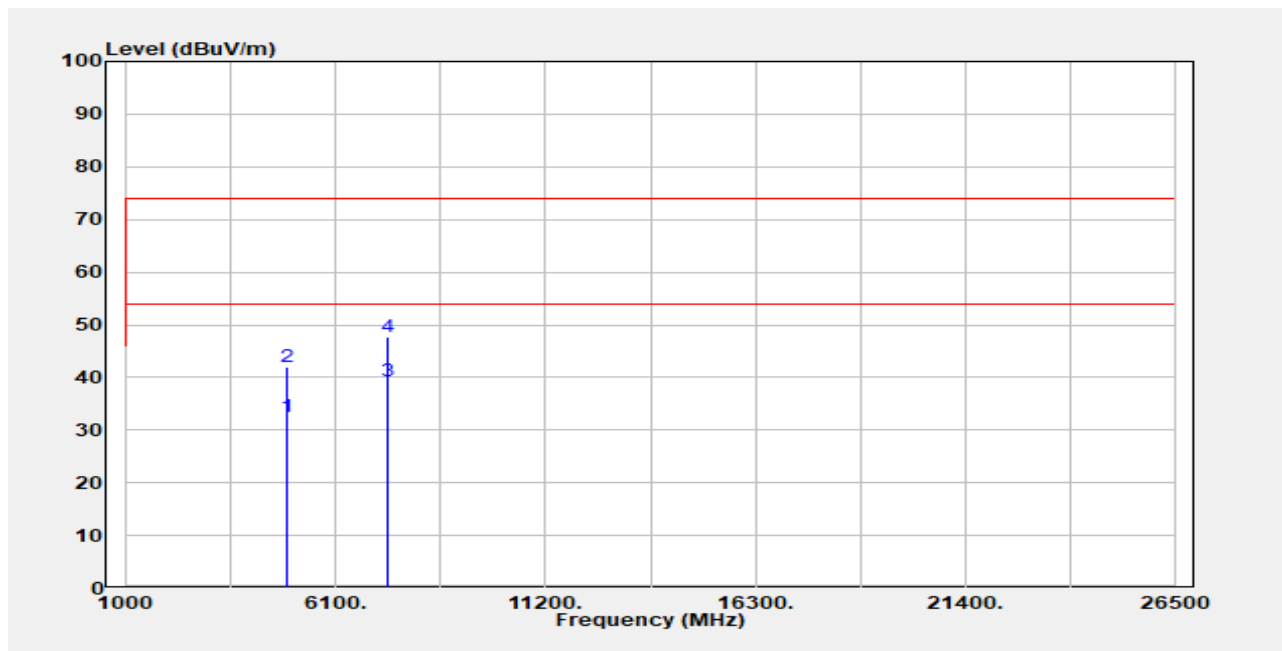
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Report Number :ER/2022/30037  
 Operation Mode :802.11n40  
 Test Frequency :2452 MHz  
 Test Mode :Tx CH High  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-08  
 Temp./Humi. :22.8/64  
 Antenna Pol. :Horizontal  
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4904.00	Average	25.37	7.20	32.57	54.00	-21.43
4904.00	Peak	34.78	7.20	41.98	74.00	-32.02
7356.00	Average	24.17	15.06	39.23	54.00	-14.77
7356.00	Peak	32.60	15.06	47.67	74.00	-26.33

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

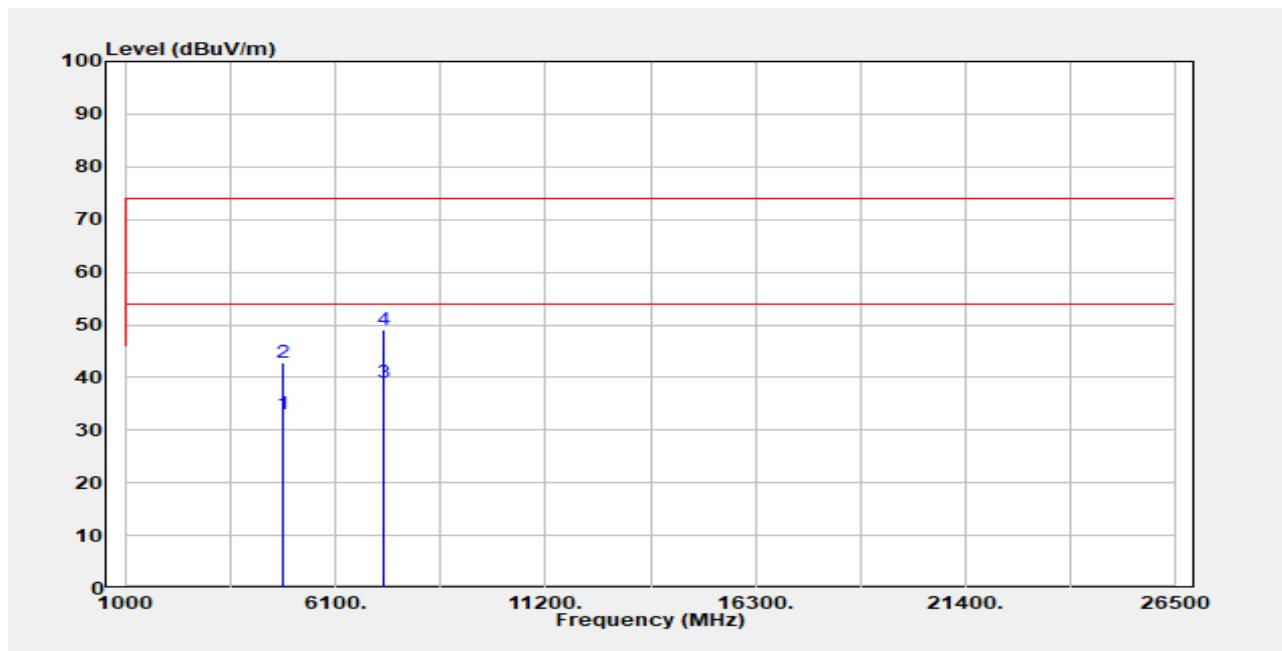
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Report Number :ER/2022/30037  
 Operation Mode :802.11ax20  
 Test Frequency :2412 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-08  
 Temp./Humi. :22.8/64  
 Antenna Pol. :Vertical  
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4824.00	Average	25.52	7.52	33.04	54.00	-20.96
4824.00	Peak	35.20	7.52	42.72	74.00	-31.28
7236.00	Average	24.17	14.82	38.99	54.00	-15.01
7236.00	Peak	34.28	14.82	49.09	74.00	-24.91

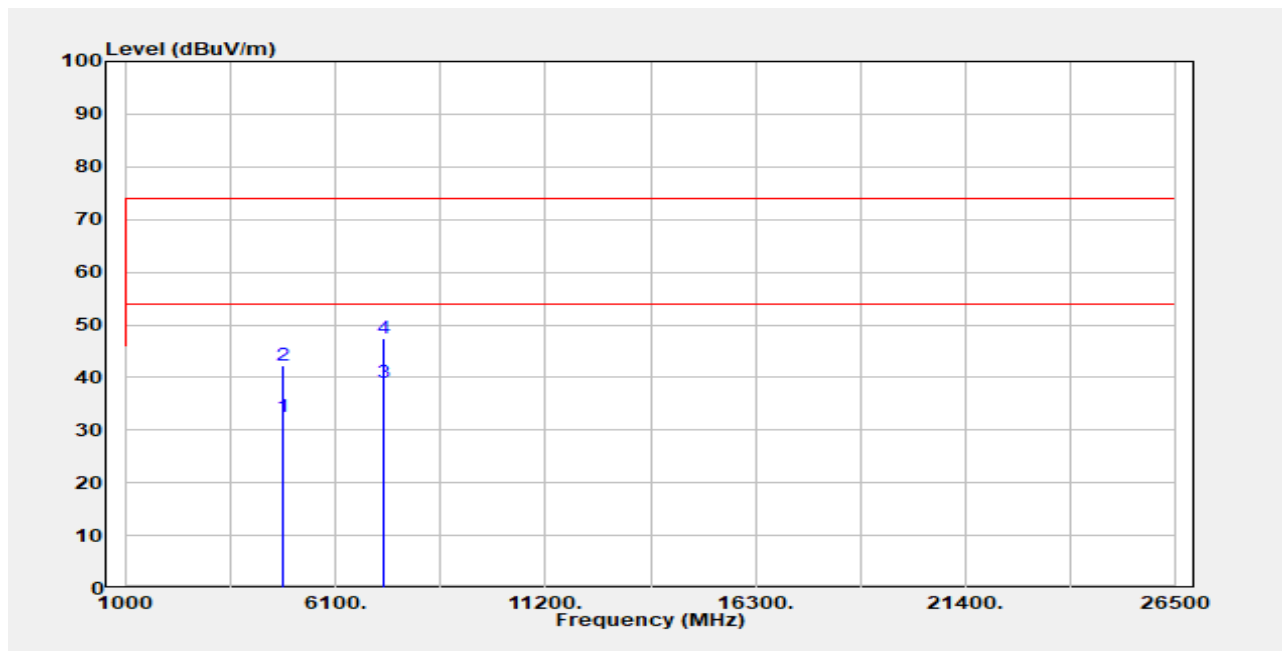
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Report Number :ER/2022/30037  
 Operation Mode :802.11ax20  
 Test Frequency :2412 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-08  
 Temp./Humi. :22.8/64  
 Antenna Pol. :Horizontal  
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4824.00	Average	25.06	7.52	32.58	54.00	-21.42
4824.00	Peak	34.83	7.52	42.35	74.00	-31.65
7236.00	Average	24.19	14.82	39.01	54.00	-14.99
7236.00	Peak	32.68	14.82	47.50	74.00	-26.50

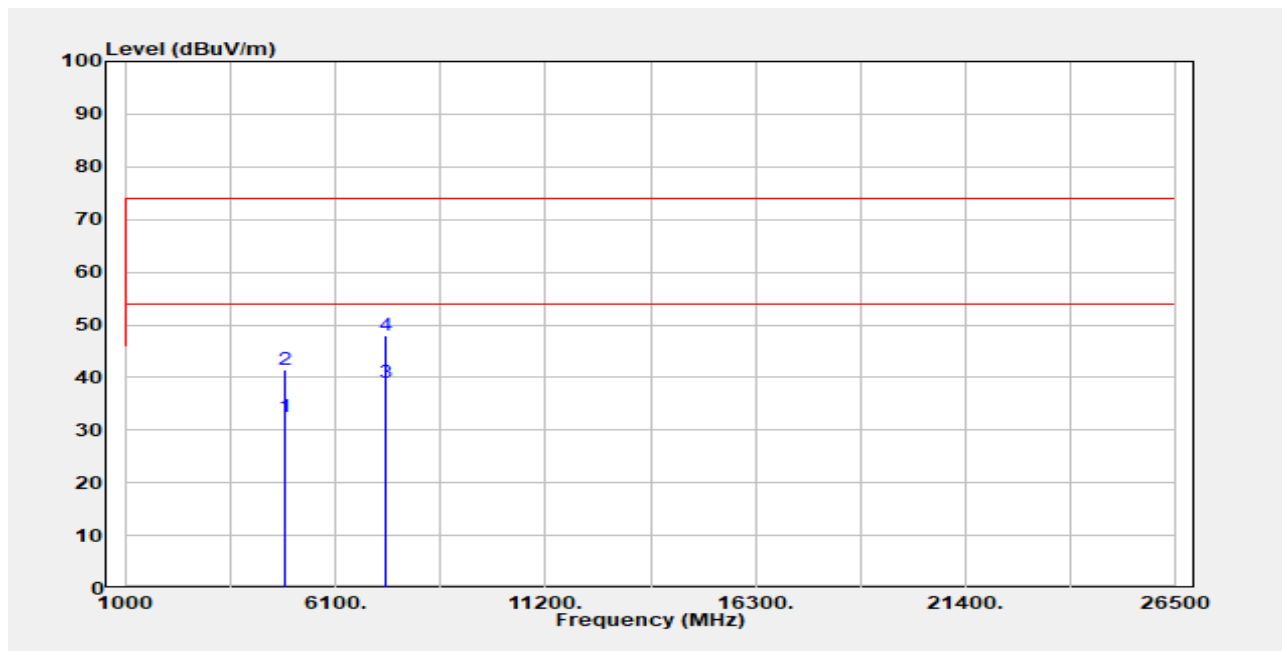
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Report Number :ER/2022/30037  
 Operation Mode :802.11ax20  
 Test Frequency :2437 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-08  
 Temp./Humi. :22.8/64  
 Antenna Pol. :Vertical  
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4874.00	Average	25.18	7.42	32.60	54.00	-21.40
4874.00	Peak	34.10	7.42	41.52	74.00	-32.48
7311.00	Average	24.20	14.87	39.07	54.00	-14.93
7311.00	Peak	33.20	14.87	48.07	74.00	-25.93

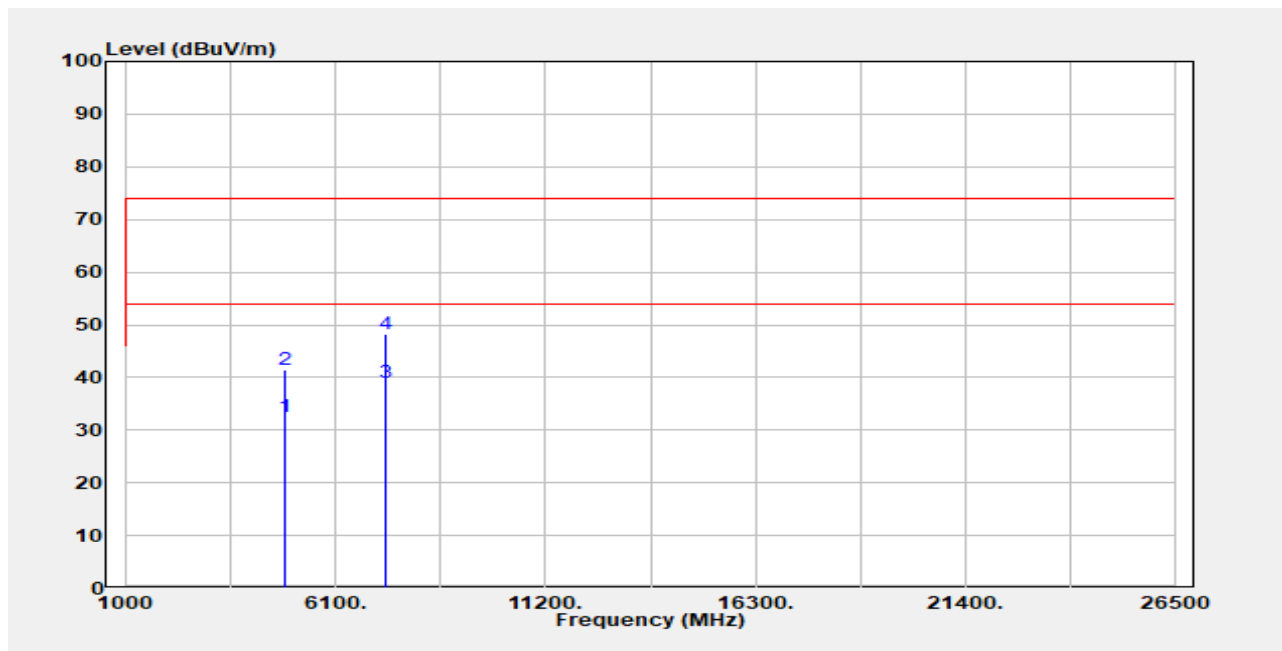
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Report Number :ER/2022/30037  
 Operation Mode :802.11ax20  
 Test Frequency :2437 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-08  
 Temp./Humi. :22.8/64  
 Antenna Pol. :Horizontal  
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4874.00	Average	25.15	7.42	32.57	54.00	-21.43
4874.00	Peak	34.08	7.42	41.50	74.00	-32.50
7311.00	Average	24.19	14.87	39.06	54.00	-14.94
7311.00	Peak	33.24	14.87	48.11	74.00	-25.89

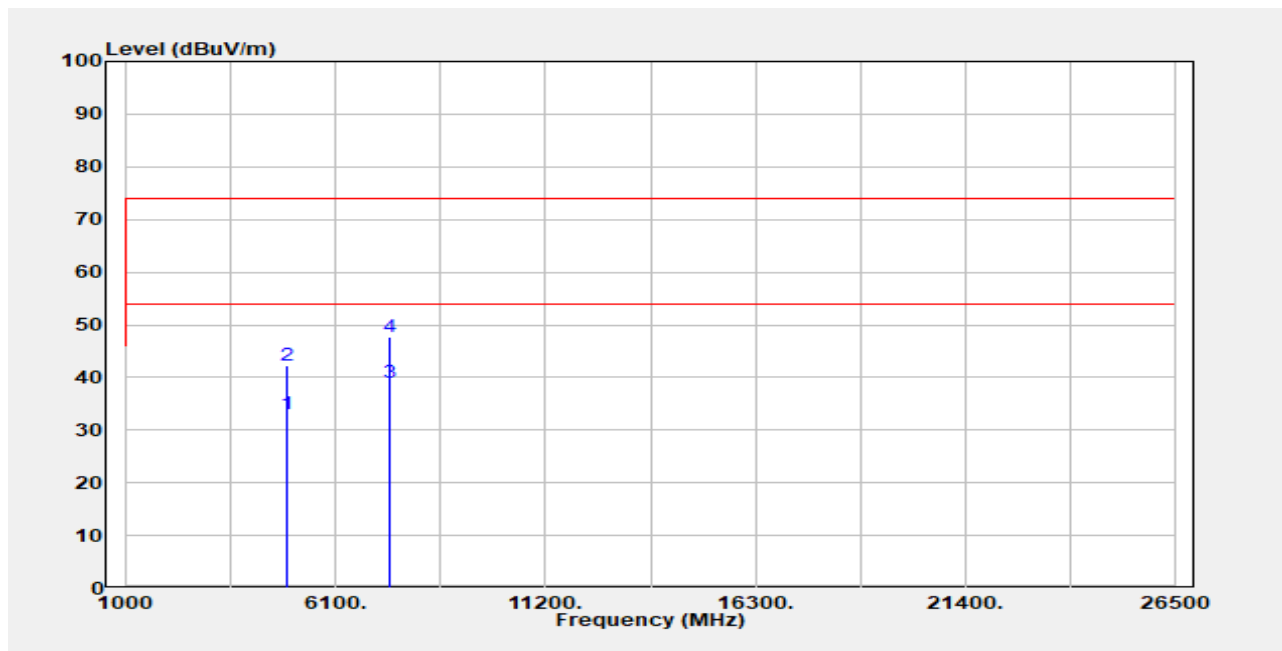
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Report Number :ER/2022/30037  
 Operation Mode :802.11ax20  
 Test Frequency :2462 MHz  
 Test Mode :Tx CH High  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-08  
 Temp./Humi. :22.8/64  
 Antenna Pol. :Vertical  
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4924.00	Average	25.45	7.48	32.93	54.00	-21.07
4924.00	Peak	34.87	7.48	42.35	74.00	-31.65
7386.00	Average	24.21	14.83	39.04	54.00	-14.96
7386.00	Peak	32.76	14.83	47.59	74.00	-26.41

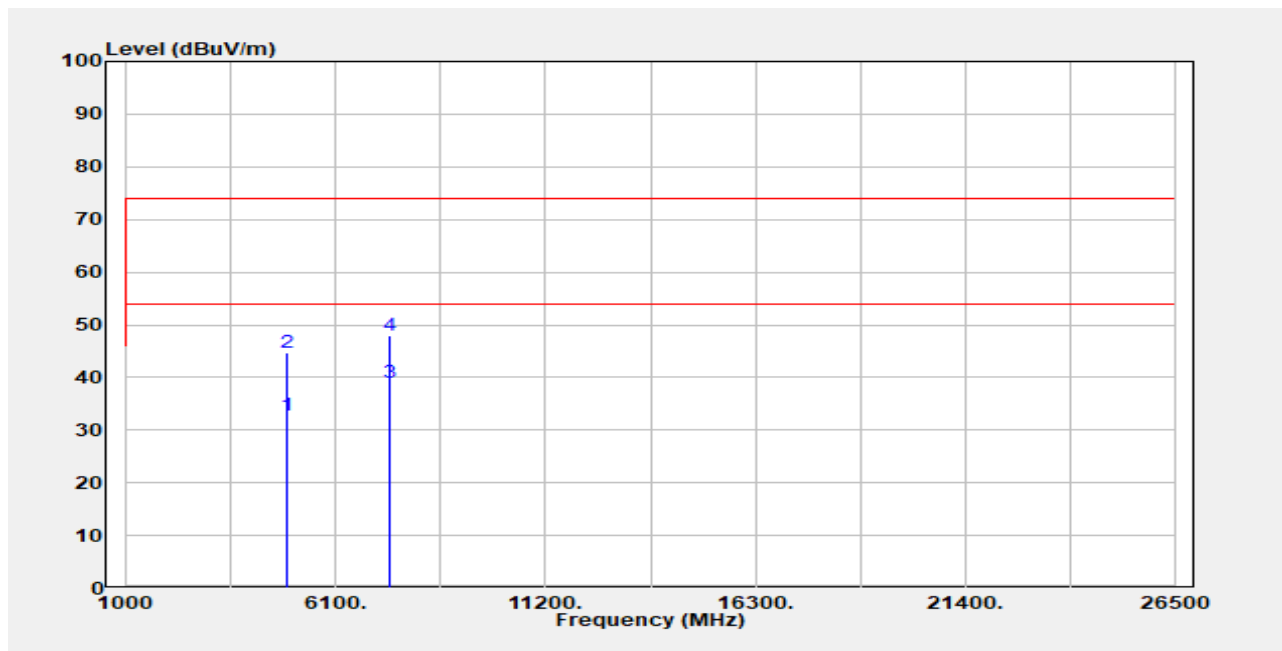
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Report Number :ER/2022/30037  
 Operation Mode :802.11ax20  
 Test Frequency :2462 MHz  
 Test Mode :Tx CH High  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-08  
 Temp./Humi. :22.8/64  
 Antenna Pol. :Horizontal  
 Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4924.00	Average	25.38	7.48	32.86	54.00	-21.14
4924.00	Peak	37.23	7.48	44.71	74.00	-29.29
7386.00	Average	24.17	14.83	39.00	54.00	-15.00
7386.00	Peak	33.24	14.83	48.07	74.00	-25.93

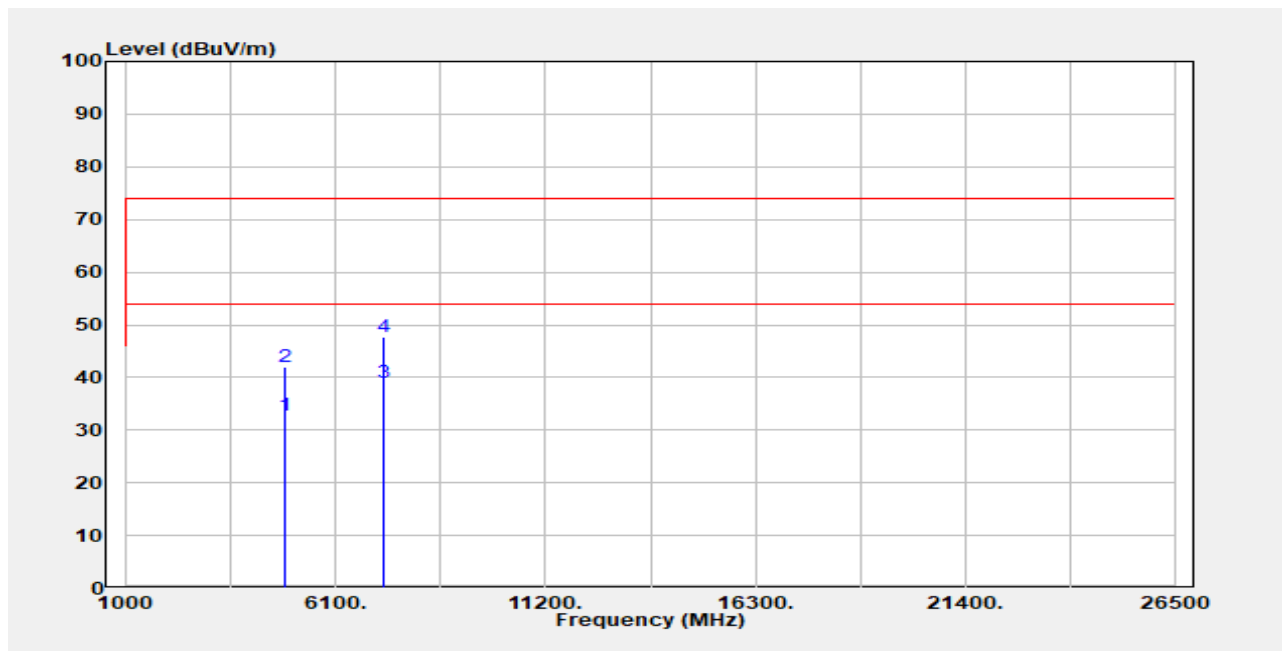
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Report Number :ER/2022/30037  
 Operation Mode :802.11ax40  
 Test Frequency :2422 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-08  
 Temp./Humi. :22.8/64  
 Antenna Pol. :Vertical  
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4844.00	Average	25.02	7.64	32.66	54.00	-21.34
4844.00	Peak	34.28	7.64	41.92	74.00	-32.08
7266.00	Average	24.25	14.86	39.11	54.00	-14.89
7266.00	Peak	32.87	14.86	47.74	74.00	-26.26

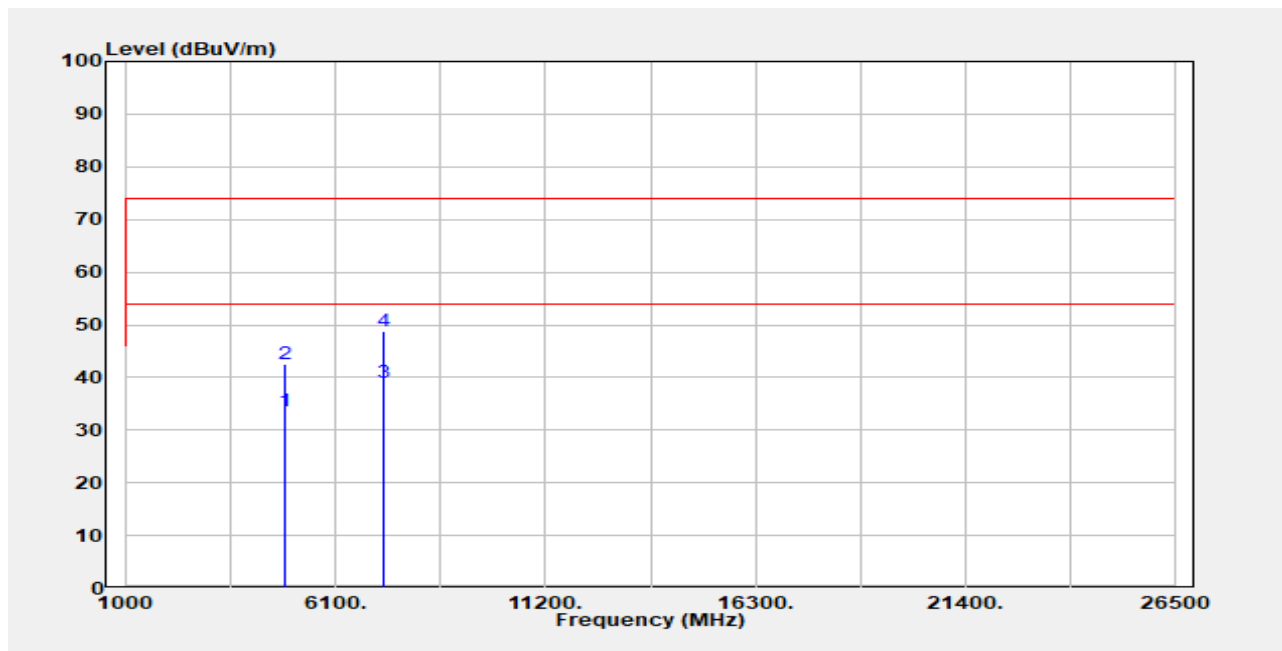
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Report Number :ER/2022/30037  
 Operation Mode :802.11ax40  
 Test Frequency :2422 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-08  
 Temp./Humi. :22.8/64  
 Antenna Pol. :Horizontal  
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4844.00	Average	25.94	7.64	33.58	54.00	-20.42
4844.00	Peak	34.93	7.64	42.56	74.00	-31.44
7266.00	Average	24.29	14.86	39.15	54.00	-14.85
7266.00	Peak	33.85	14.86	48.71	74.00	-25.29

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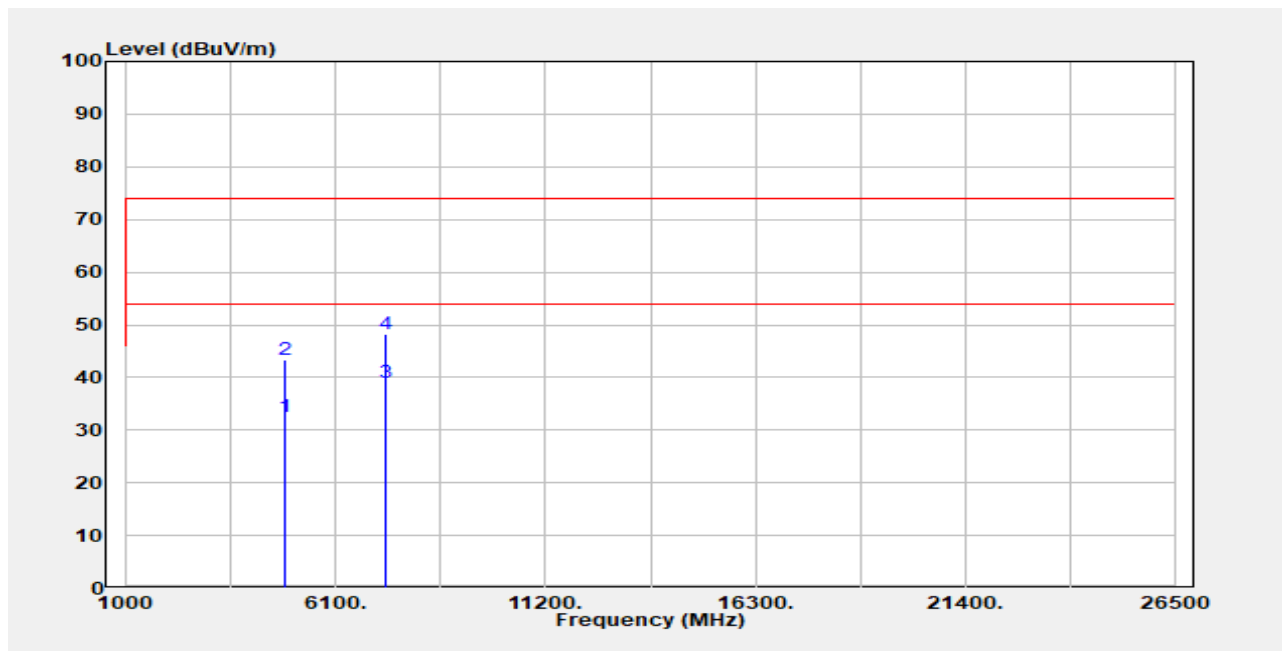
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Report Number :ER/2022/30037  
 Operation Mode :802.11ax40  
 Test Frequency :2437 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-08  
 Temp./Humi. :22.8/64  
 Antenna Pol. :Vertical  
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4874.00	Average	25.23	7.42	32.65	54.00	-21.35
4874.00	Peak	36.03	7.42	43.45	74.00	-30.55
7311.00	Average	24.24	14.87	39.11	54.00	-14.89
7311.00	Peak	33.30	14.87	48.17	74.00	-25.83

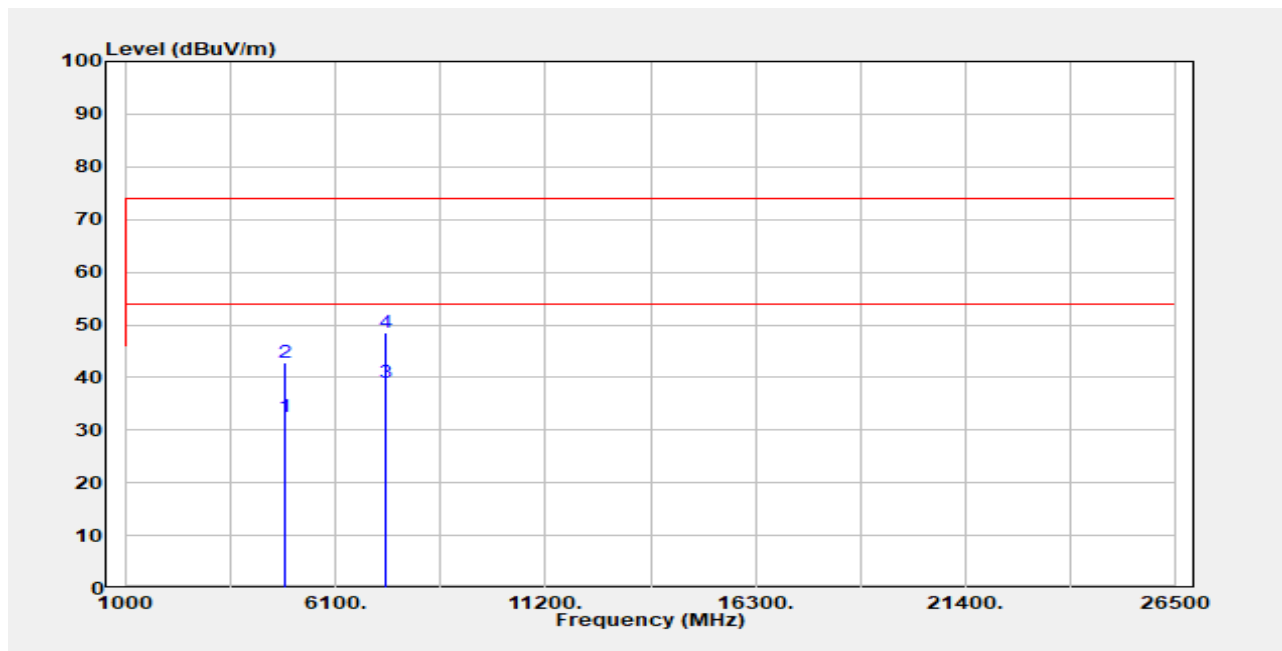
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Report Number :ER/2022/30037  
 Operation Mode :802.11ax40  
 Test Frequency :2437 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-08  
 Temp./Humi. :22.8/64  
 Antenna Pol. :Horizontal  
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4874.00	Average	25.15	7.42	32.57	54.00	-21.43
4874.00	Peak	35.40	7.42	42.82	74.00	-31.18
7311.00	Average	24.23	14.87	39.10	54.00	-14.90
7311.00	Peak	33.77	14.87	48.63	74.00	-25.37

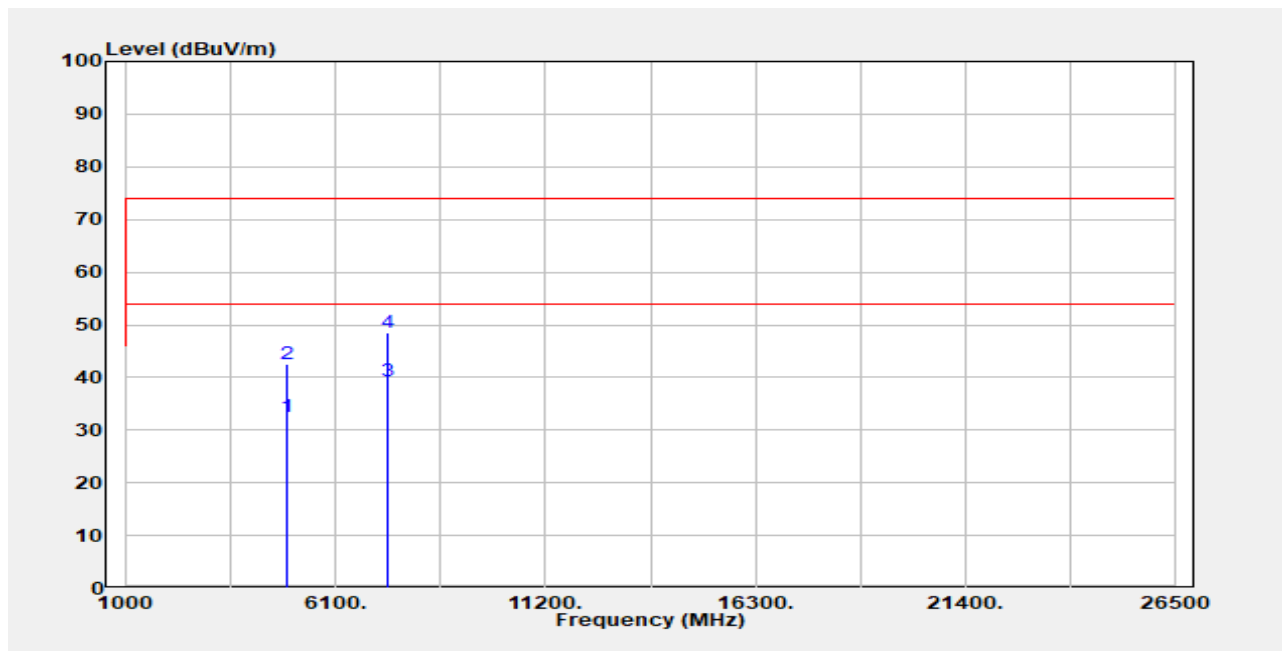
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Report Number :ER/2022/30037  
 Operation Mode :802.11ax40  
 Test Frequency :2452 MHz  
 Test Mode :Tx CH High  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-08  
 Temp./Humi. :22.8/64  
 Antenna Pol. :Vertical  
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4904.00	Average	25.38	7.20	32.58	54.00	-21.42
4904.00	Peak	35.25	7.20	42.45	74.00	-31.55
7356.00	Average	24.21	15.06	39.27	54.00	-14.73
7356.00	Peak	33.55	15.06	48.61	74.00	-25.39

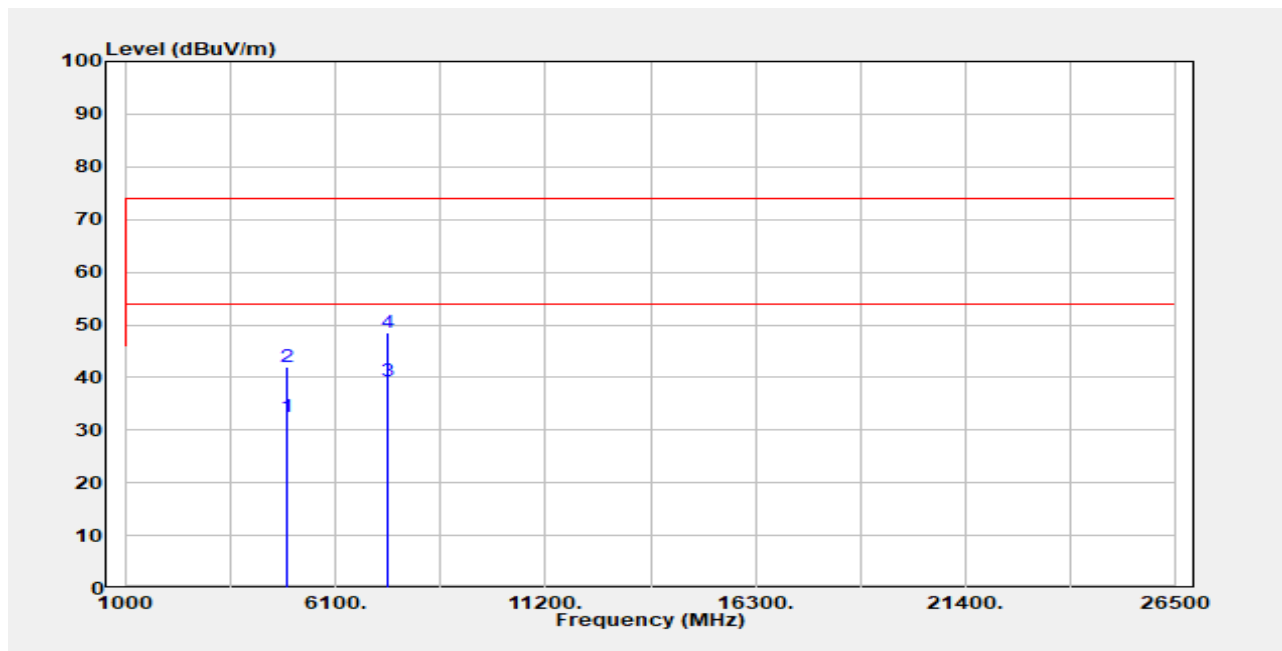
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Report Number :ER/2022/30037  
 Operation Mode :802.11ax40  
 Test Frequency :2452 MHz  
 Test Mode :Tx CH High  
 EUT Pol :E2 Plane

Test Site :SAC 1  
 Test Date :2022-04-08  
 Temp./Humi. :22.8/64  
 Antenna Pol. :Horizontal  
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4904.00	Average	25.41	7.20	32.61	54.00	-21.39
4904.00	Peak	34.88	7.20	42.08	74.00	-31.92
7356.00	Average	24.22	15.06	39.28	54.00	-14.72
7356.00	Peak	33.42	15.06	48.48	74.00	-25.52

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## 12 POWER SPECTRAL DENSITY

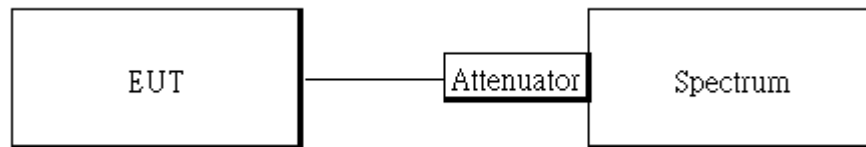
### 12.1 Standard Applicable

Per Part 15.247 (e)

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

### 12.2 Test Setup



### 12.3 Measurement Procedure

1. Set analyzer center frequency to DTS channel center frequency.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW = 3 kHz & VBW = 10 kHz.
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 amplitude level.
10. MIMO mode: offset is set with “measure and add 10 Log (N)” to measurement for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna.

**Note:**

*For the test of MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported on this report after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. The MIMO transmitting mode produces higher value of outcome.*

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## 12.4 As per FCC KDB 662911 D01

As per section F. 2). e). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

$g_{j,k} = \sqrt{20 \cdot 10^{G_k}}$  if the kth antenna is being fed by spatial stream j, or zero if it is not;

$G_k$  is the gain in dBi of the kth antenna.

The antenna gain is not greater than 6 dBi. Therefore, reduction of power is not required.

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## 12.5 Power spectral density

POWER DENSITY 802.11b					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	4.33	3.77	7.07	8.00	PASS
2437	4.24	4.68	7.48	8.00	PASS
2462	4.7	3.35	7.09	8.00	PASS

POWER DENSITY 802.11g					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	0.13	2.96	4.78	8.00	PASS
2437	1.94	1.75	4.86	8.00	PASS
2462	0.82	0.49	3.67	8.00	PASS

POWER DENSITY 802.11n HT20					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	2.32	1.47	4.93	8.00	PASS
2437	1.3	1.14	4.23	8.00	PASS
2462	1.24	0.62	3.95	8.00	PASS

POWER DENSITY 802.11n HT40					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422	-1.11	-1.09	1.91	8.00	PASS
2437	-0.27	-0.98	2.40	8.00	PASS
2452	-2.3	-0.81	1.52	8.00	PASS

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POWER DENSITY 802.11ax HE20						
Freq. (MHz)	RU Config	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	full	0.3	-0.6	2.88	8.00	PASS
2437	full	1.77	1.08	4.45	8.00	PASS
2462	full	1.29	1.59	4.45	8.00	PASS

POWER DENSITY 802.11ax HE40						
Freq. (MHz)	RU Config	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422	full	-2.34	-0.31	1.80	8.00	PASS
2437	full	-1.21	-0.89	1.96	8.00	PASS
2452	full	-2.96	-2.7	0.18	8.00	PASS

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802.11b\_20MHz\_Chain0\_2412MHz



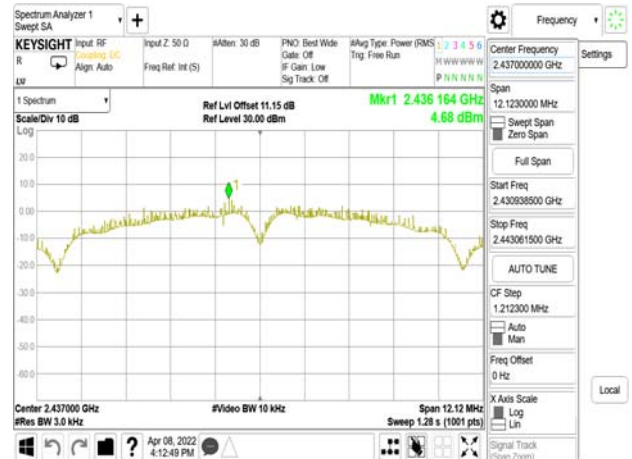
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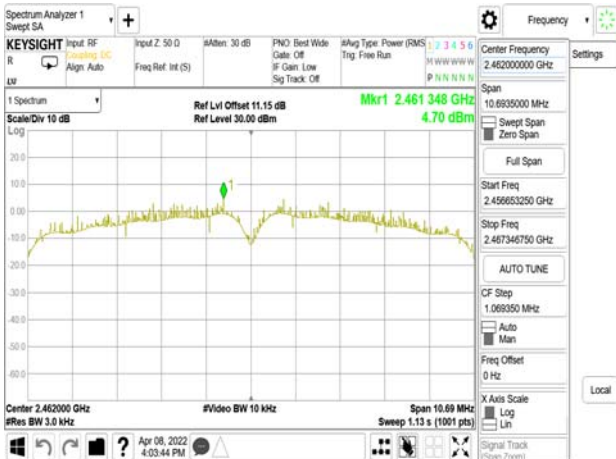
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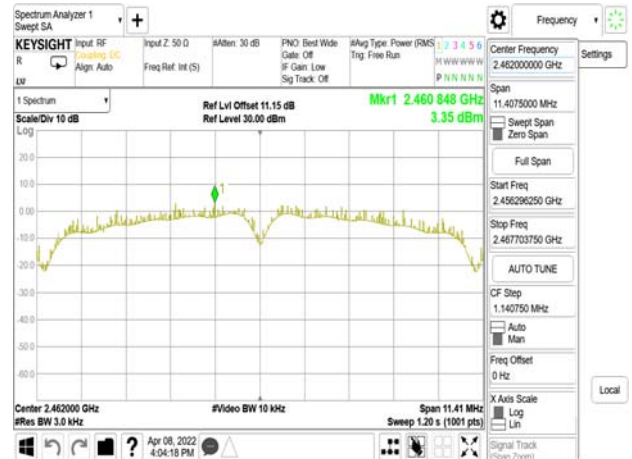
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802.11b\_20MHz\_Chain0\_2462MHz

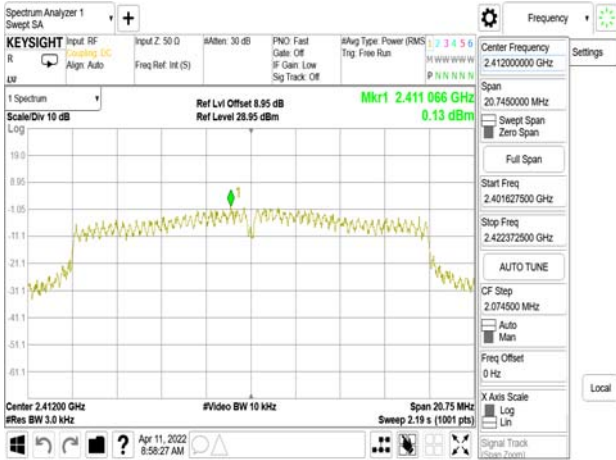


802.11b\_20MHz\_Chain1\_2462MHz

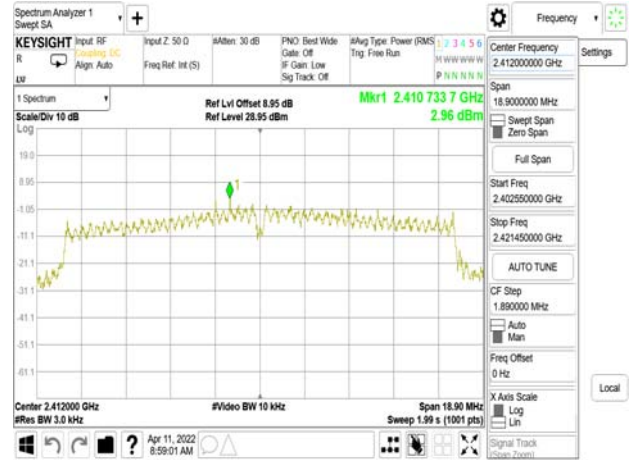


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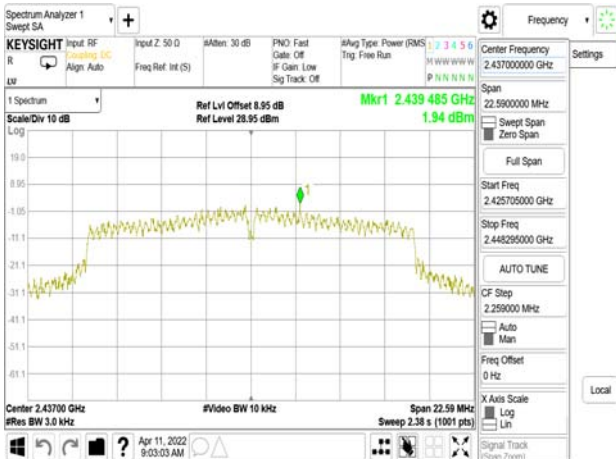
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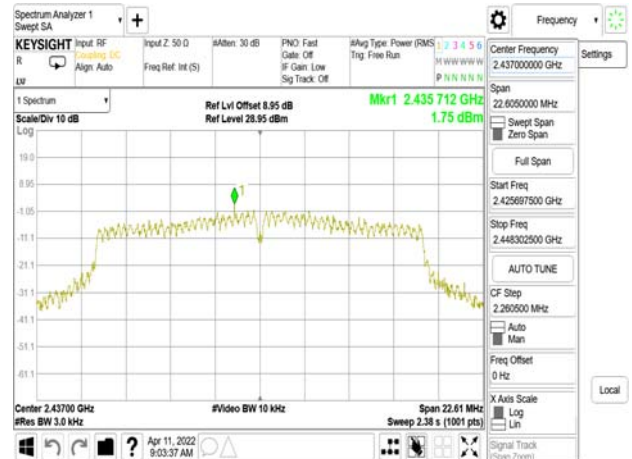
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802.11g\_20MHz\_Chain0\_2437MHz



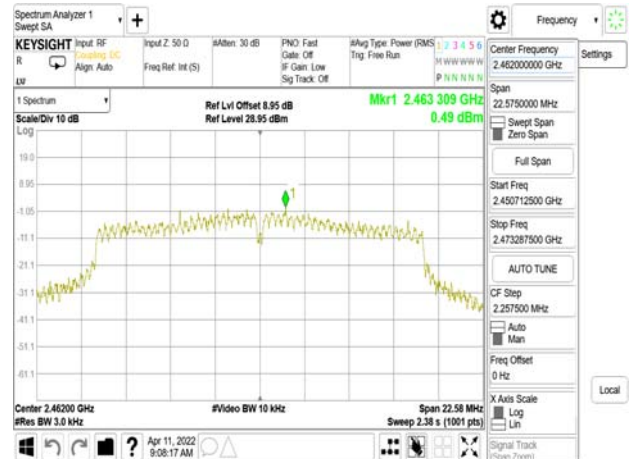
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802.11g\_20MHz\_Chain0\_2462MHz

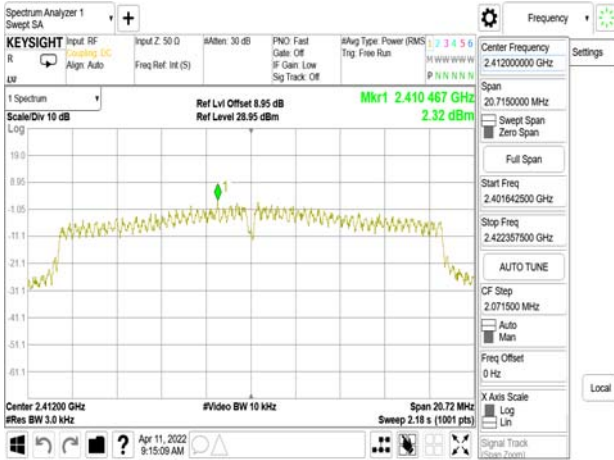


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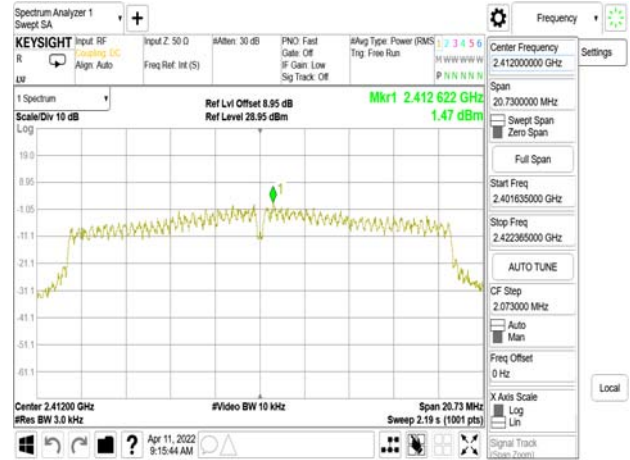


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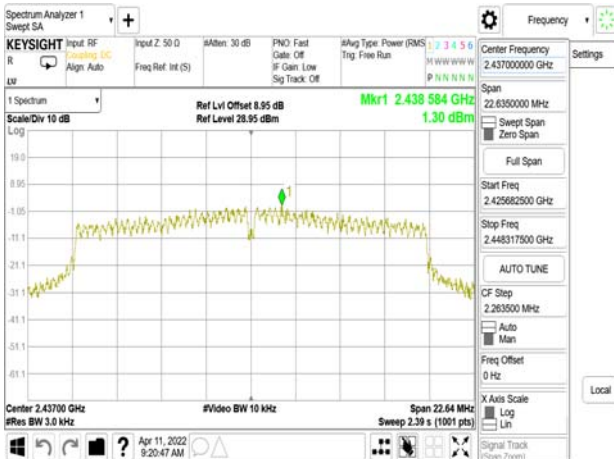
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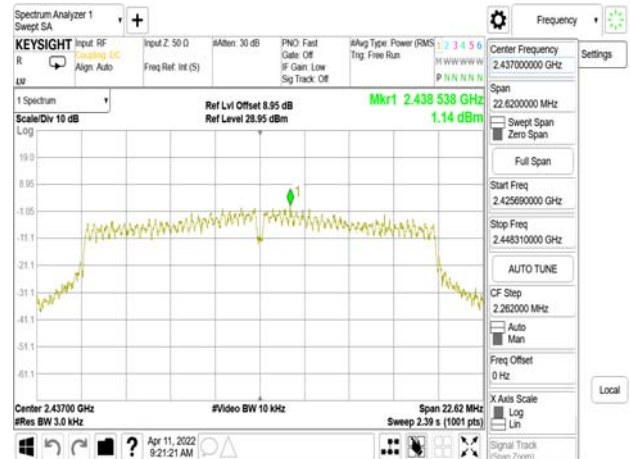
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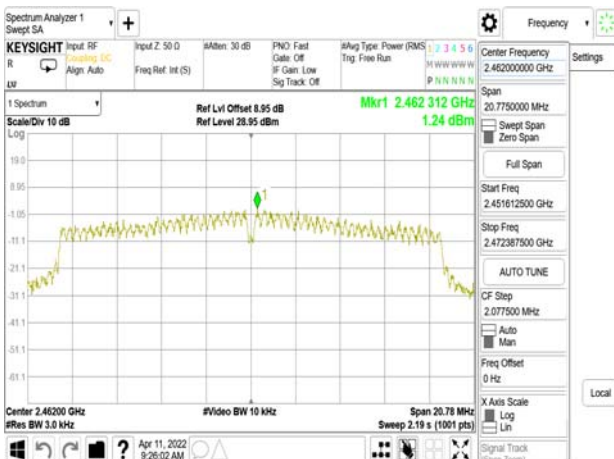
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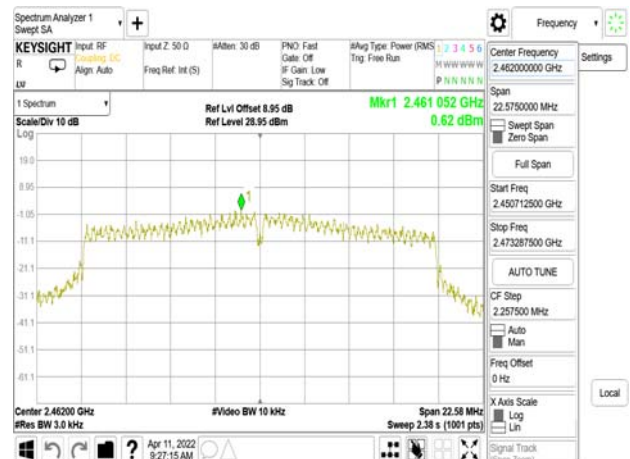
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802.11n\_20MHz\_Chain0\_2462MHz



802.11n\_20MHz\_Chain1\_2462MHz

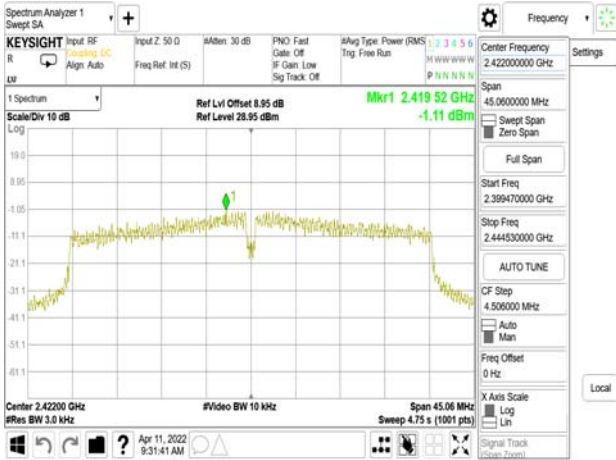


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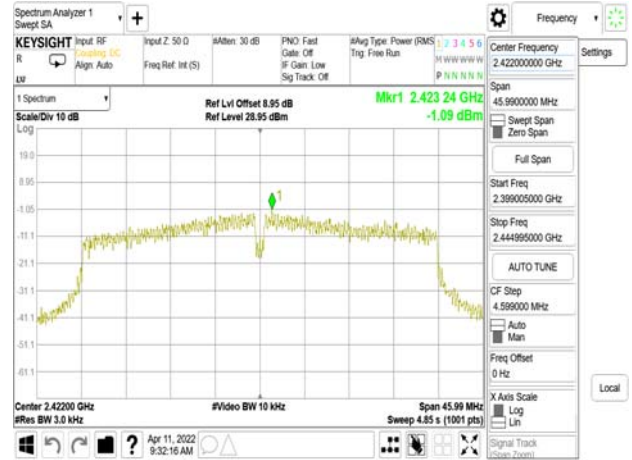
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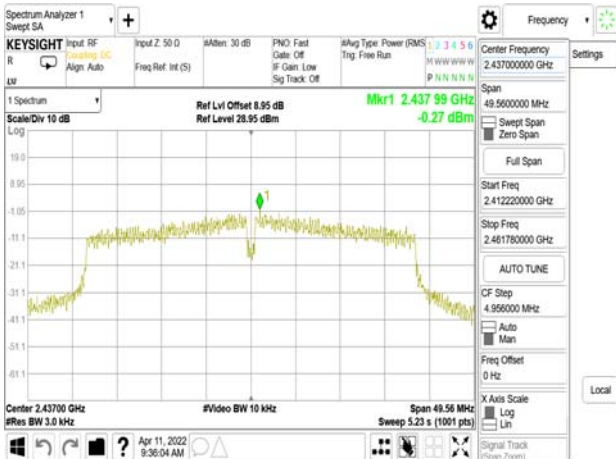
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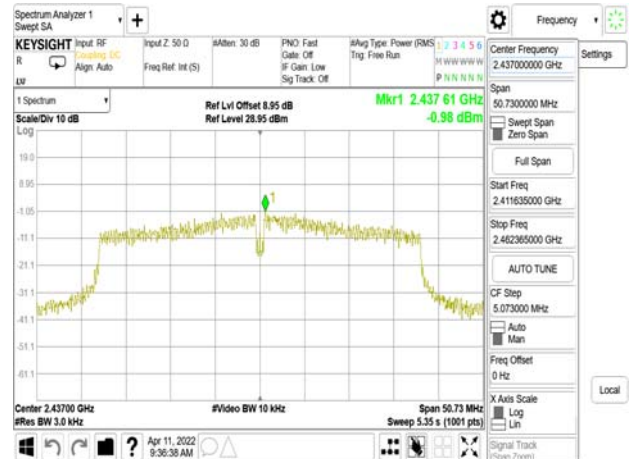
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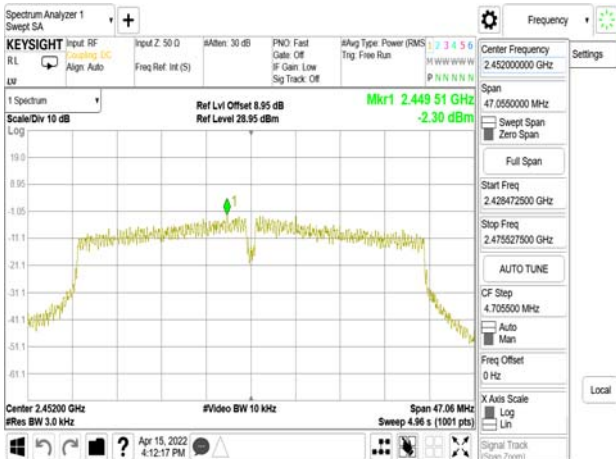
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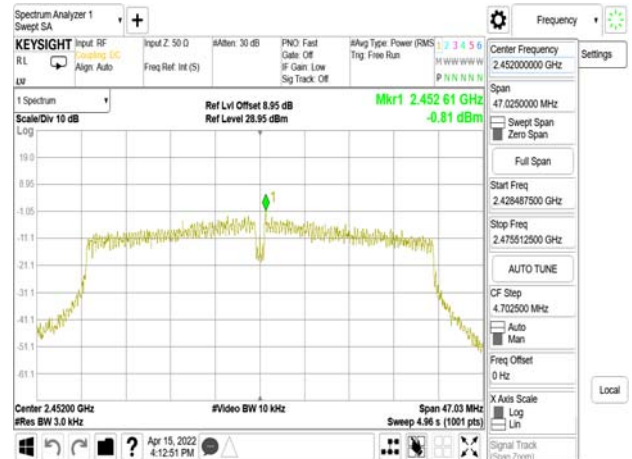
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802.11n\_40MHz\_Chain0\_2452MHz

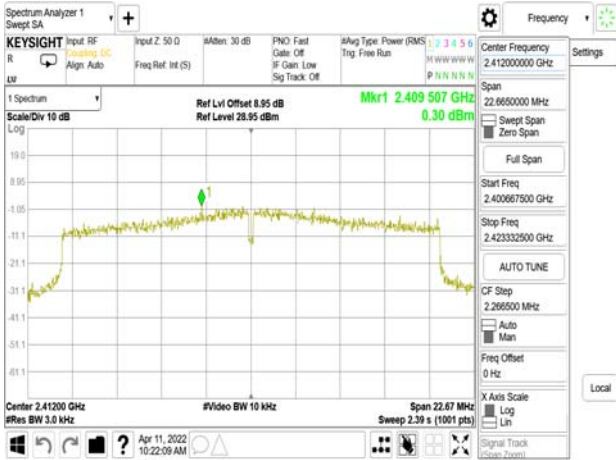


802.11n\_40MHz\_Chain1\_2452MHz

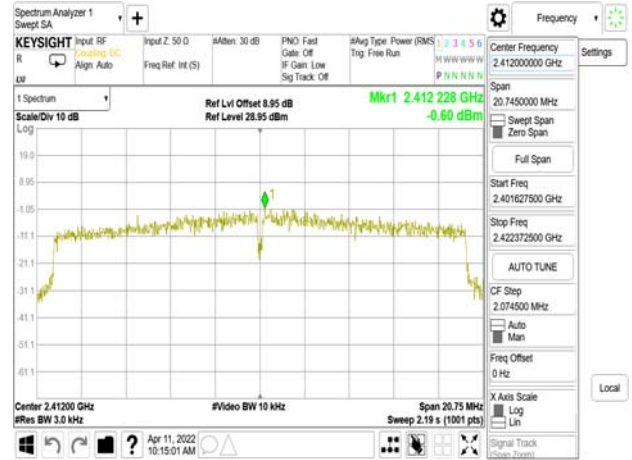


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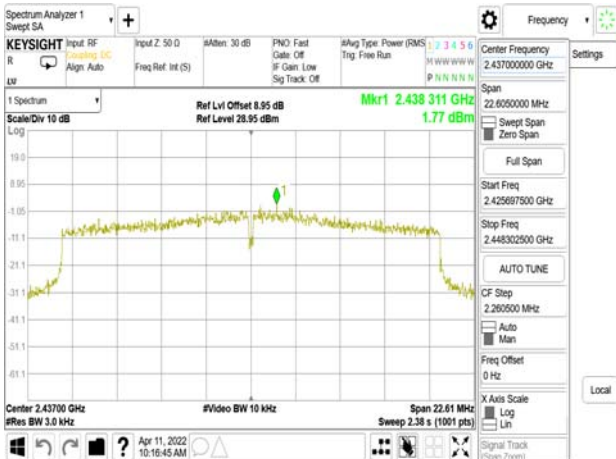
802.11ax\_20MHz\_Chain0\_2412MHz



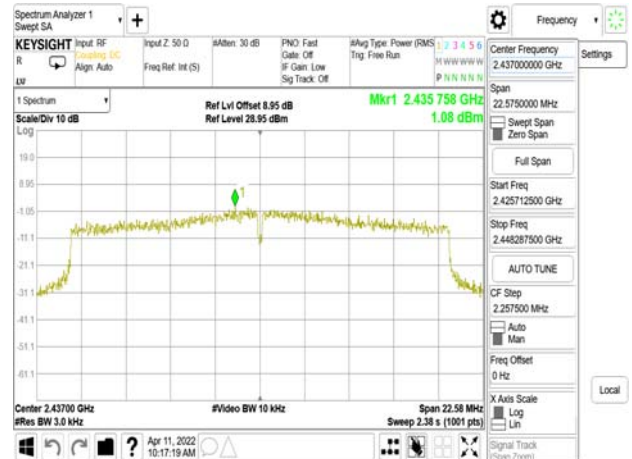
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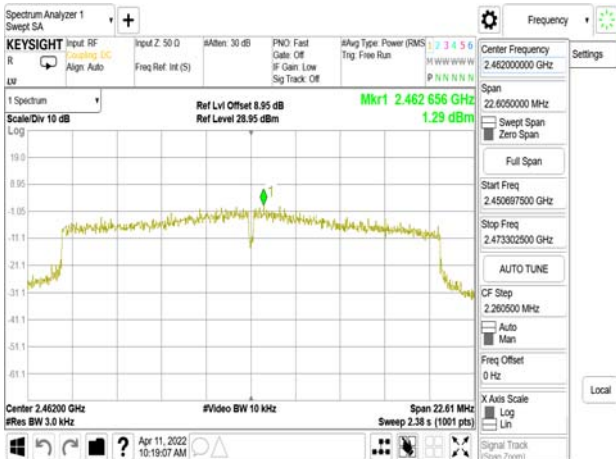
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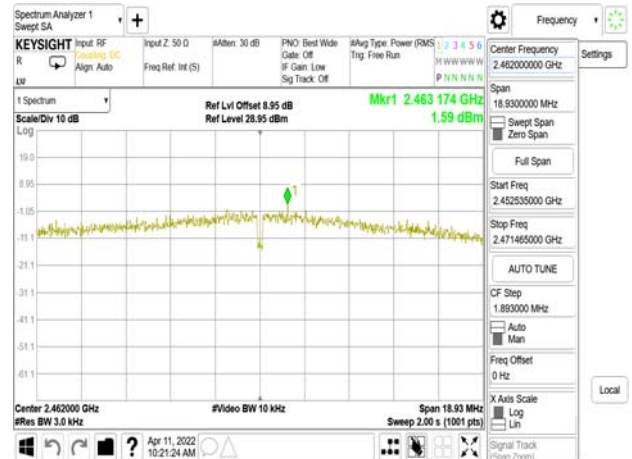
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802.11ax\_20MHz\_Chain0\_2462MHz



802.11ax\_20MHz\_Chain1\_2462MHz

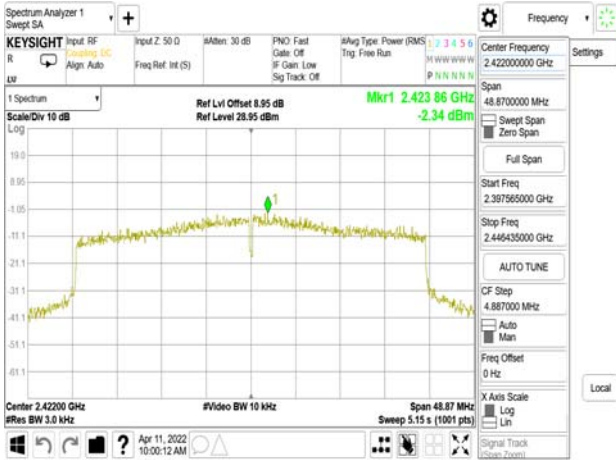


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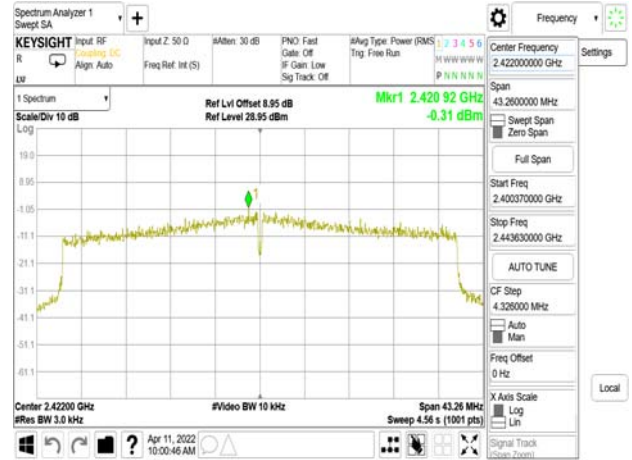
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802.11ax\_40MHz\_Chain0\_2422MHz



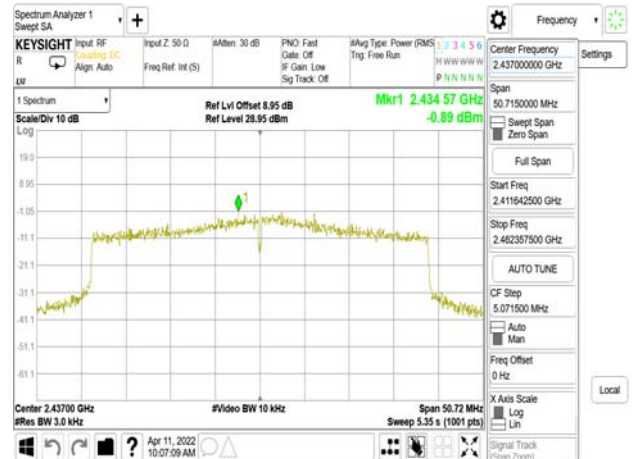
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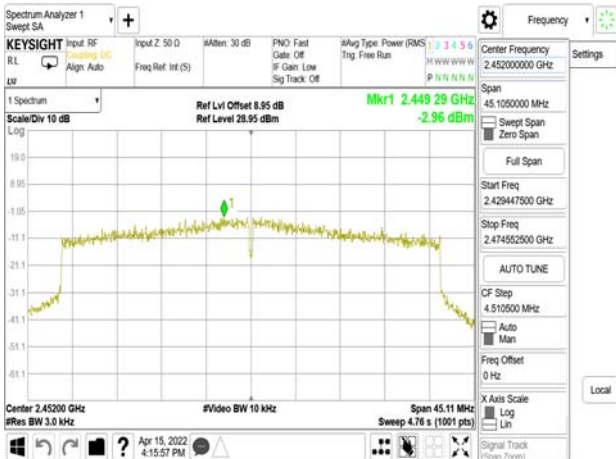
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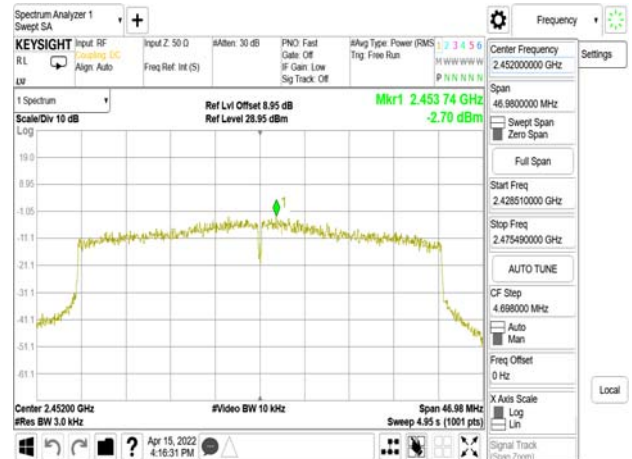
802.11ax\_40MHz\_Chain1\_2437MHz



802.11ax\_40MHz\_Chain0\_2452MHz



802.11ax\_40MHz\_Chain1\_2452MHz



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## 13 ANTENNA REQUIREMENT

### 13.1 Standard Applicable

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

### 13.2 Antenna Connected Construction

The antenna is designed as permanently attached and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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