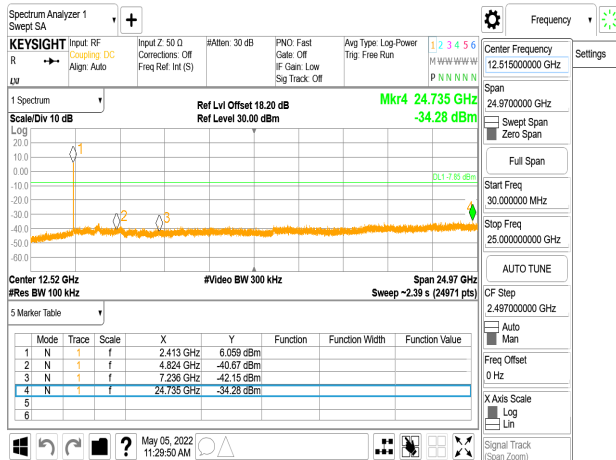
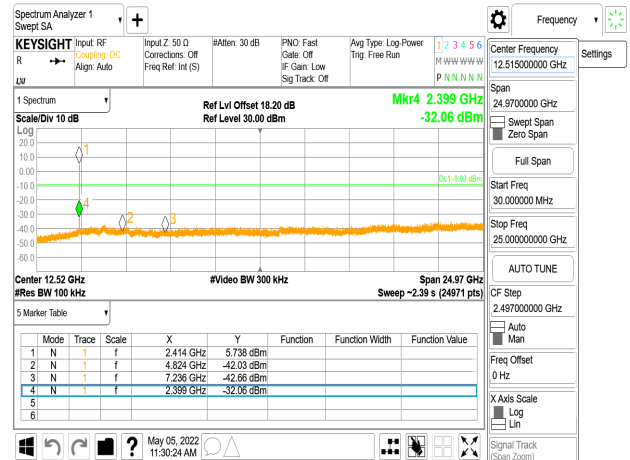


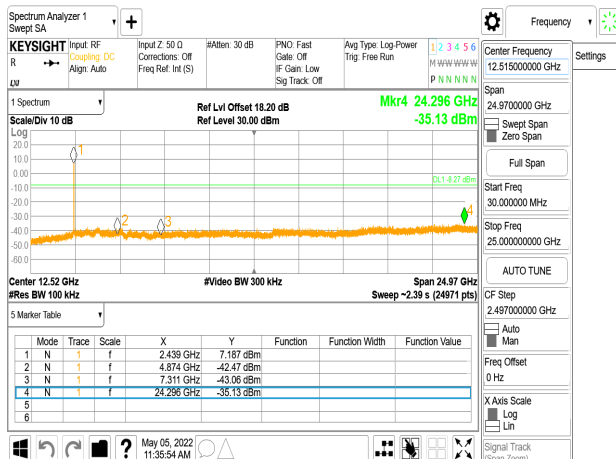
802.11ax_20MHz_Chain0_2412MHz



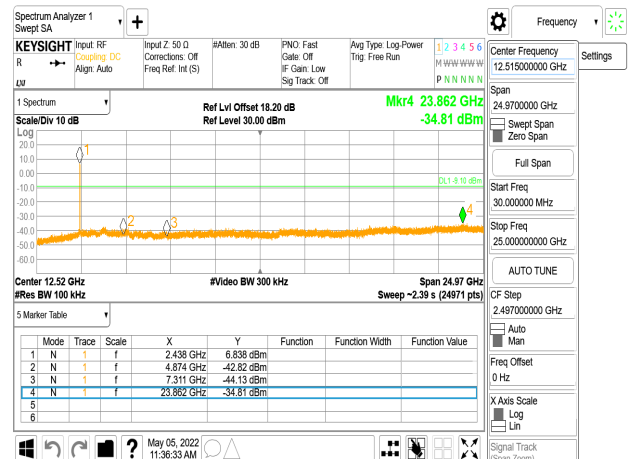
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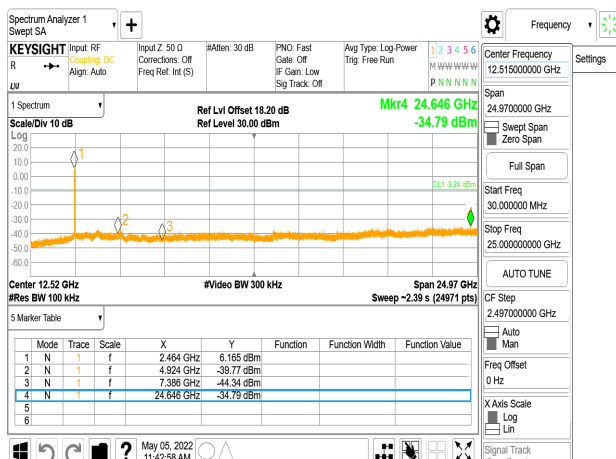
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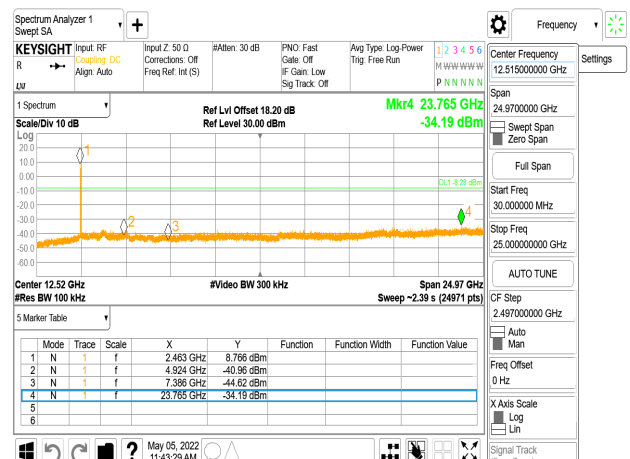
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802.11ax_20MHz_Chain0_2462MHz



802.11ax_20MHz_Chain1_2462MHz

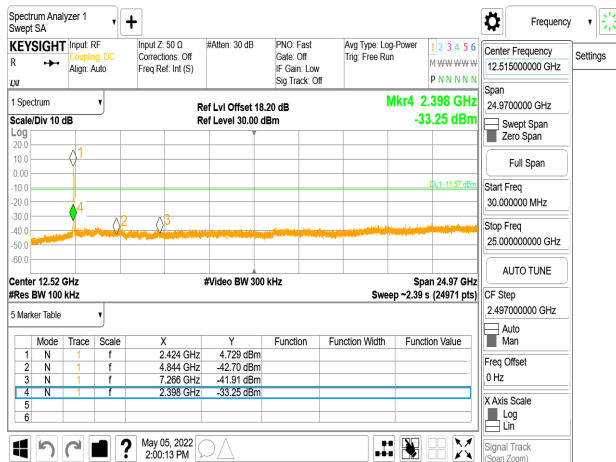


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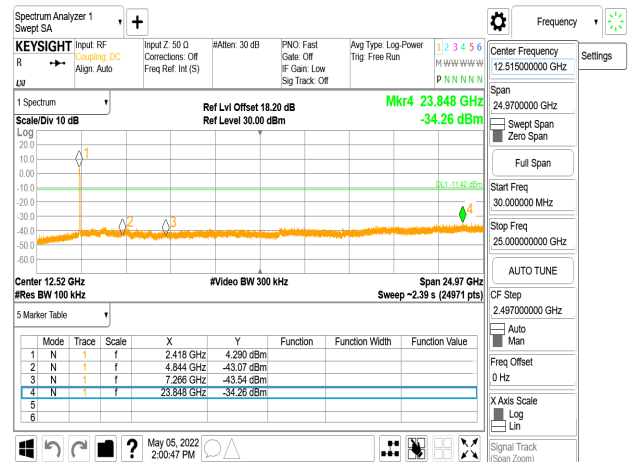
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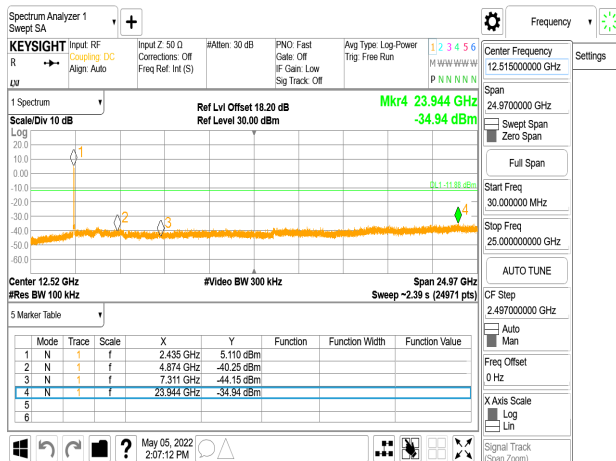
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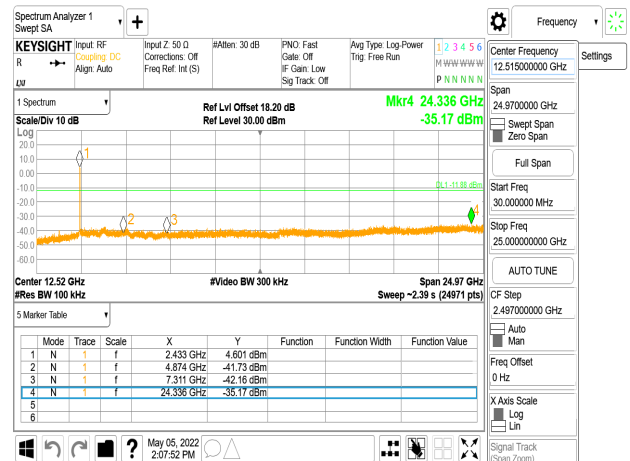
802.11ax_40MHz_Chain1_2422MHz



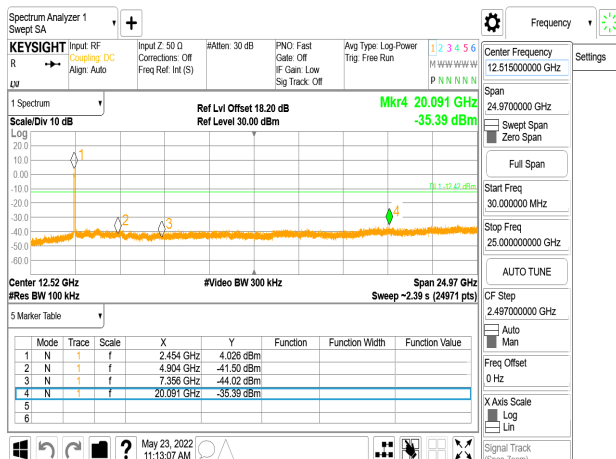
802.11ax_40MHz_Chain0_2437MHz



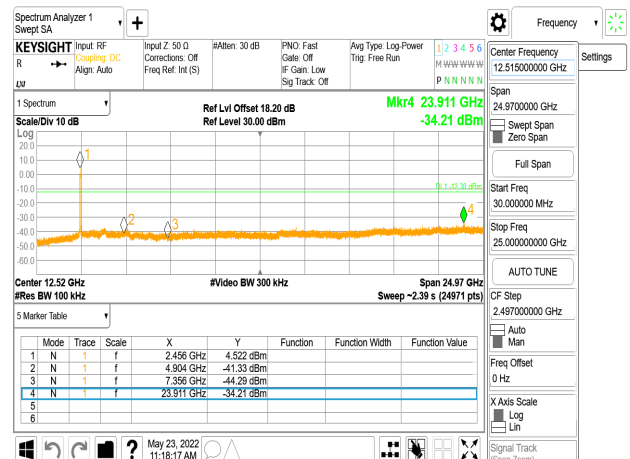
802.11ax_40MHz_Chain1_2437MHz



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.

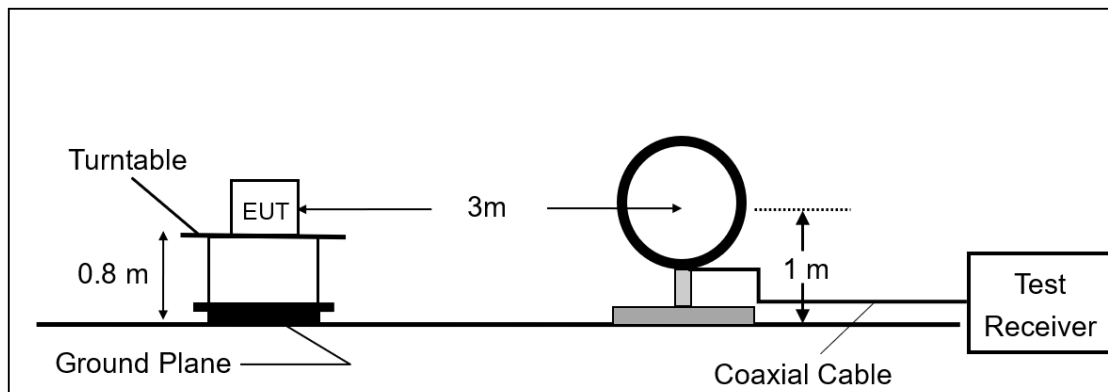
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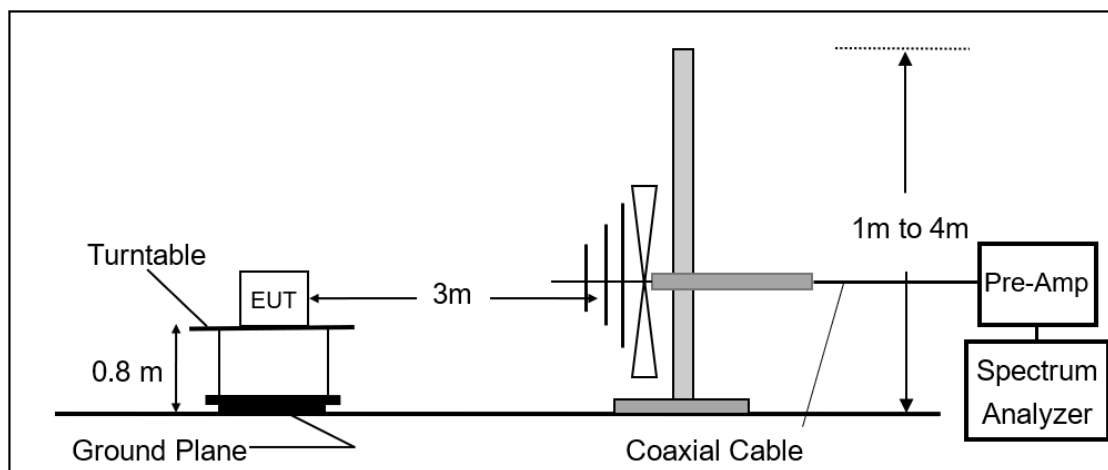
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11.2 Test Setup

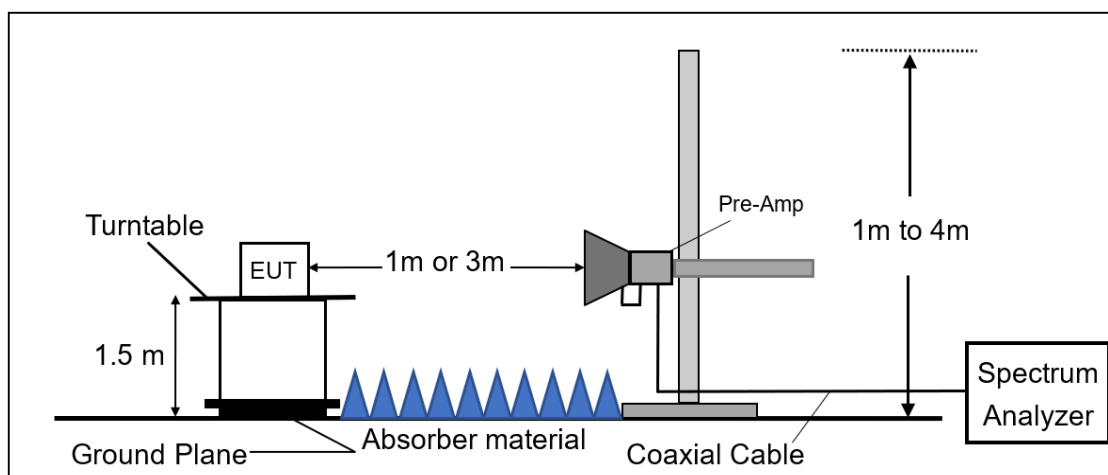
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



(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.

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 $20 \cdot \log(uV/m)$

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$Actual\ FS(dB\mu V/m) = SPA.\ Reading\ level(dB\mu V) + Factor(dB)$

$Factor(dB) = Antenna\ Factor(dB\mu V/m) + Cable\ Loss(dB) - Pre_Amplifier\ Gain(dB)$

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

Report Number :E2/2022/30056

Test Site :SAC G

Operation Mode :802.11b

Test Date :2022-05-11

Test Frequency :2412 MHz

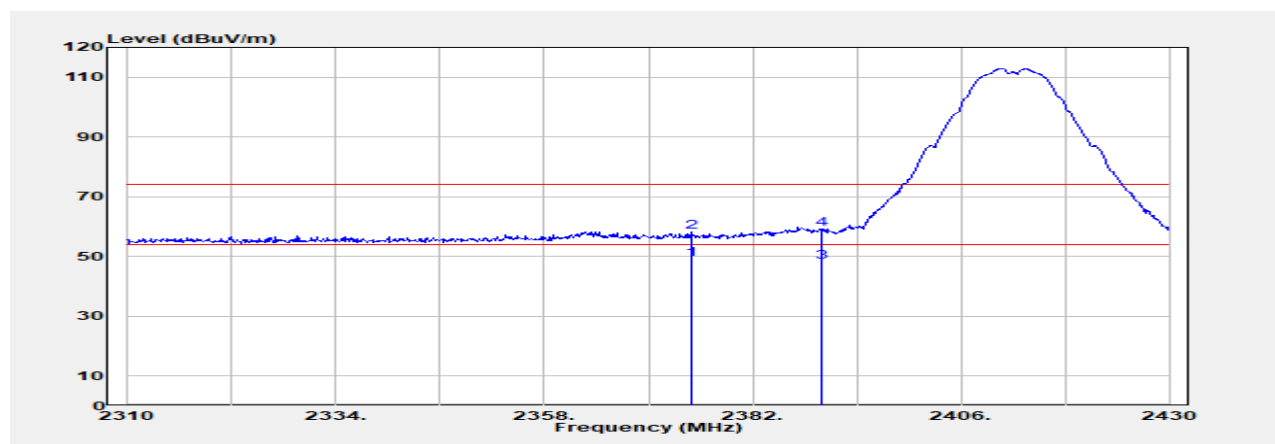
Temp./Humi. :23.4/60

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2375.040	Average	52.77	-3.72	49.05	54.00	-4.95
2375.040	Peak	61.81	-3.72	58.09	74.00	-15.91
2390.000	Average	51.88	-3.80	48.08	54.00	-5.92
2390.000	Peak	63.05	-3.80	59.25	74.00	-14.75

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Report Number :E2/2022/30056

Operation Mode :802.11b

Test Frequency :2412 MHz

Test Mode :BE CH LOW

EUT Pol :E1 Plane

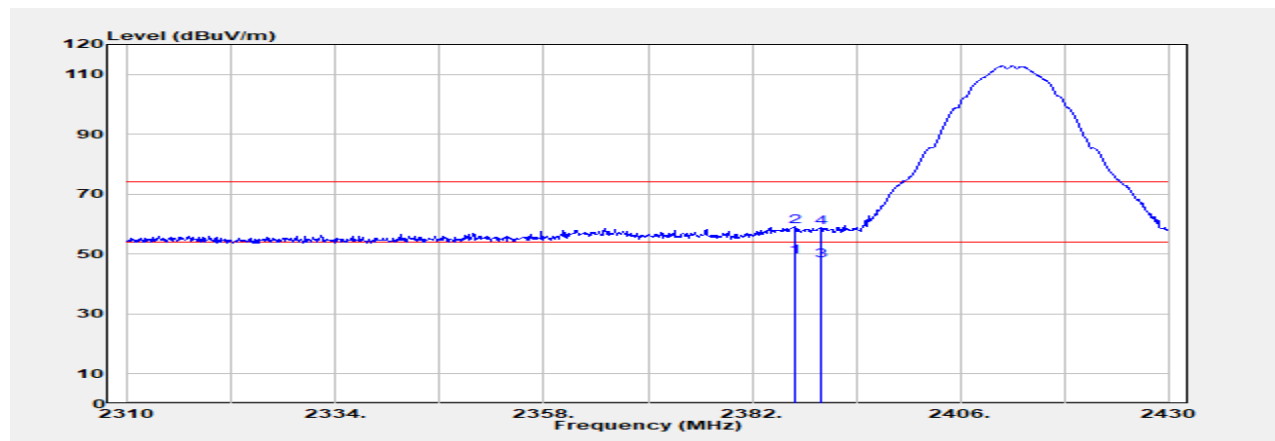
Test Site :SAC G

Test Date :2022-05-11

Temp./Humi. :23.4/60

Antenna Pol. :Horizontal

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2387.040	Average	52.90	-3.79	49.11	54.00	-4.89
2387.040	Peak	62.86	-3.79	59.07	74.00	-14.93
2390.000	Average	51.74	-3.80	47.94	54.00	-6.06
2390.000	Peak	62.65	-3.80	58.85	74.00	-15.15

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Report Number :E2/2022/30056

Operation Mode :802.11b

Test Frequency :2462 MHz

Test Mode :BE CH HIGH

EUT Pol :E1 Plane

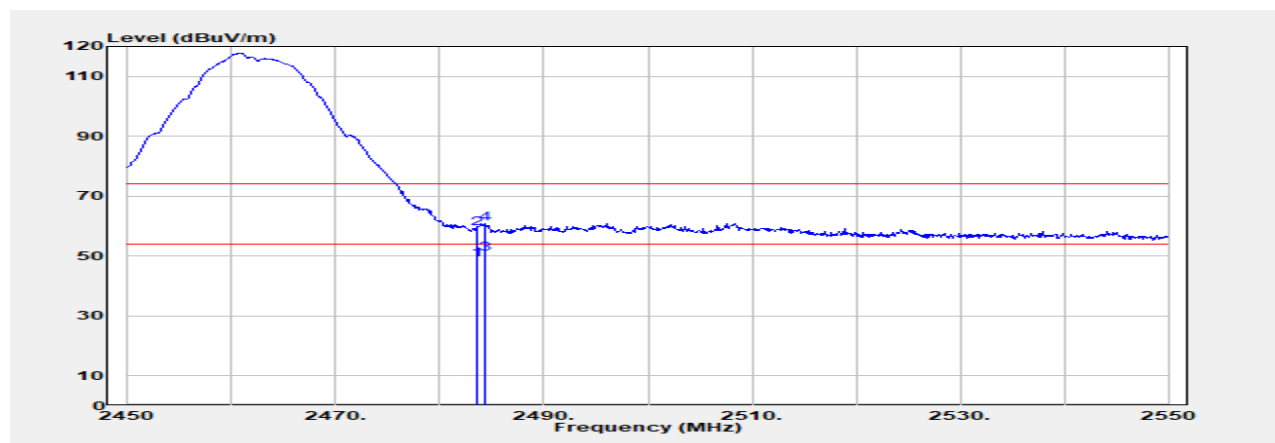
Test Site :SAC G

Test Date :2022-05-11

Temp./Humi. :23.4/60

Antenna Pol. :Vertical

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	52.80	-3.92	48.88	54.00	-5.12
2483.500	Peak	63.02	-3.92	59.10	74.00	-14.90
2484.300	Average	54.80	-3.91	50.89	54.00	-3.11
2484.300	Peak	64.78	-3.91	60.87	74.00	-13.13

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Report Number :E2/2022/30056

Operation Mode :802.11b

Test Frequency :2462 MHz

Test Mode :BE CH HIGH

EUT Pol :E1 Plane

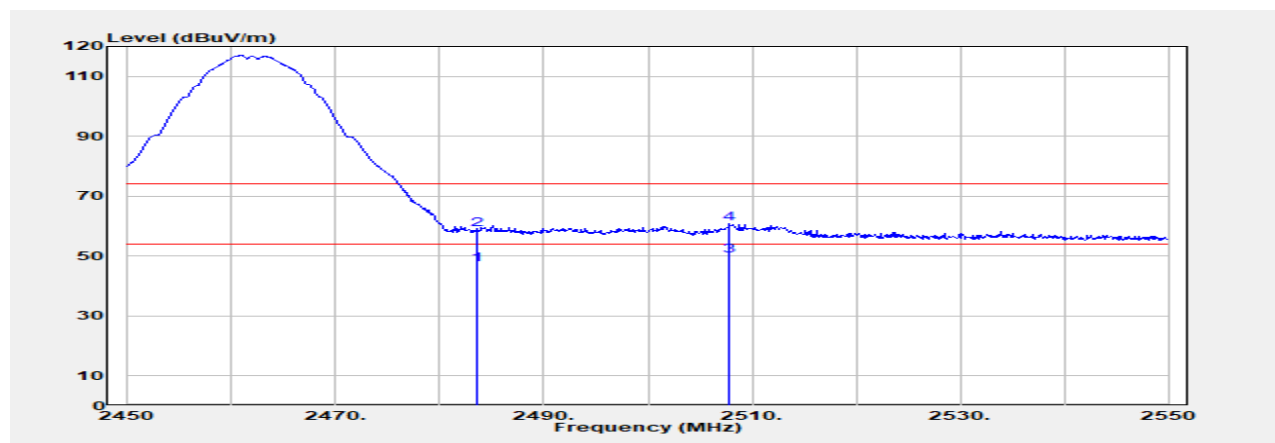
Test Site :SAC G

Test Date :2022-05-11

Temp./Humi. :23.4/60

Antenna Pol. :Horizontal

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	50.96	-3.92	47.04	54.00	-6.96
2483.500	Peak	62.74	-3.92	58.82	74.00	-15.18
2507.800	Average	54.16	-3.96	50.20	54.00	-3.80
2507.800	Peak	64.82	-3.96	60.86	74.00	-13.14

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Report Number :E2/2022/30056

Operation Mode :802.11g

Test Frequency :2412 MHz

Test Mode :BE CH LOW

EUT Pol :E1 Plane

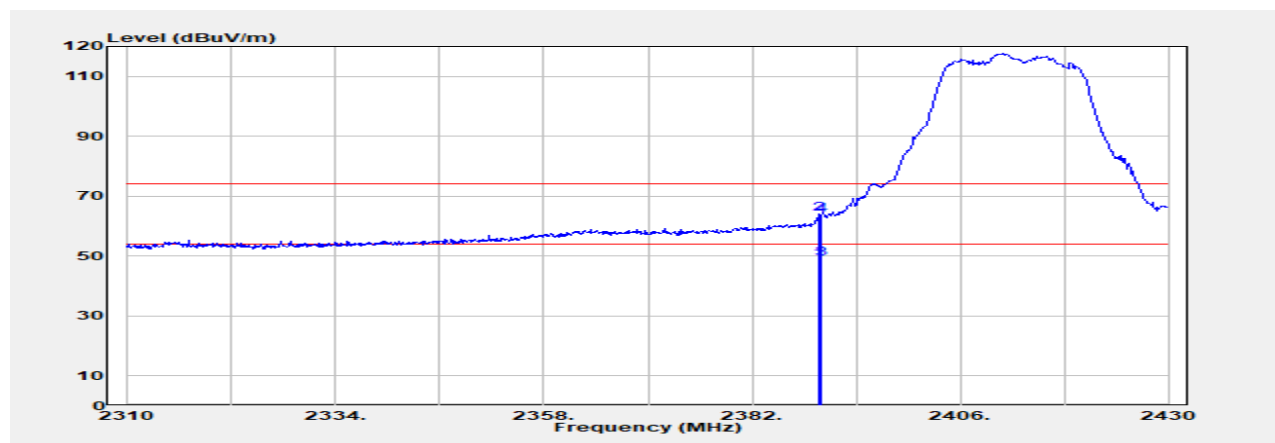
Test Site :SAC G

Test Date :2022-05-11

Temp./Humi. :23.4/60

Antenna Pol. :Vertical

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2389.680	Average	52.44	-3.80	48.64	54.00	-5.36
2389.680	Peak	67.81	-3.80	64.01	74.00	-9.99
2390.000	Average	53.04	-3.80	49.24	54.00	-4.76
2390.000	Peak	67.62	-3.80	63.82	74.00	-10.18

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Report Number :E2/2022/30056

Operation Mode :802.11g

Test Frequency :2412 MHz

Test Mode :BE CH LOW

EUT Pol :E1 Plane

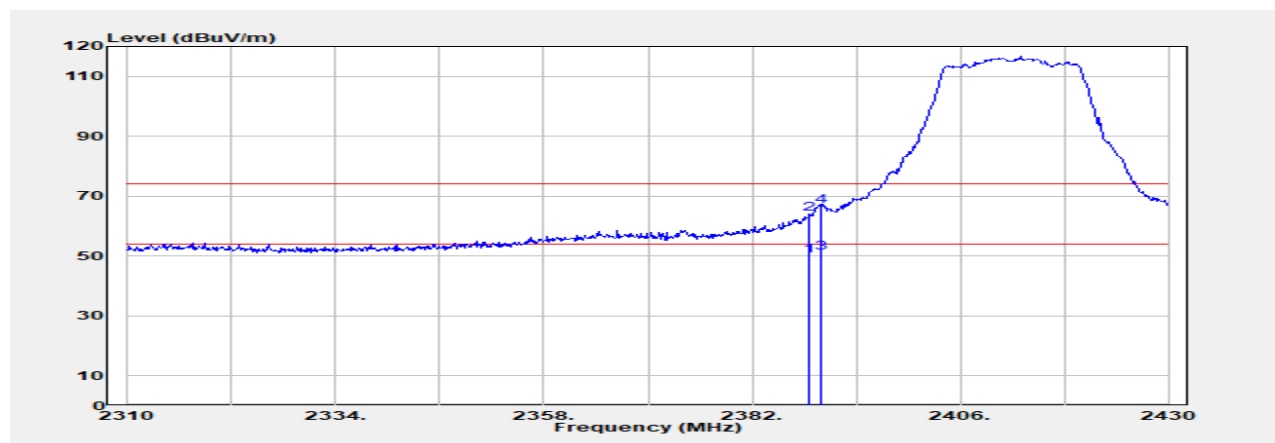
Test Site :SAC G

Test Date :2022-05-11

Temp./Humi. :23.4/60

Antenna Pol. :Horizontal

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2388.600	Average	53.91	-3.79	50.11	54.00	-3.89
2388.600	Peak	67.89	-3.79	64.09	74.00	-9.91
2390.000	Average	54.75	-3.80	50.95	54.00	-3.05
2390.000	Peak	70.60	-3.80	66.80	74.00	-7.20

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Report Number :E2/2022/30056

Operation Mode :802.11g

Test Frequency :2462 MHz

Test Mode :BE CH HIGH

EUT Pol :E1 Plane

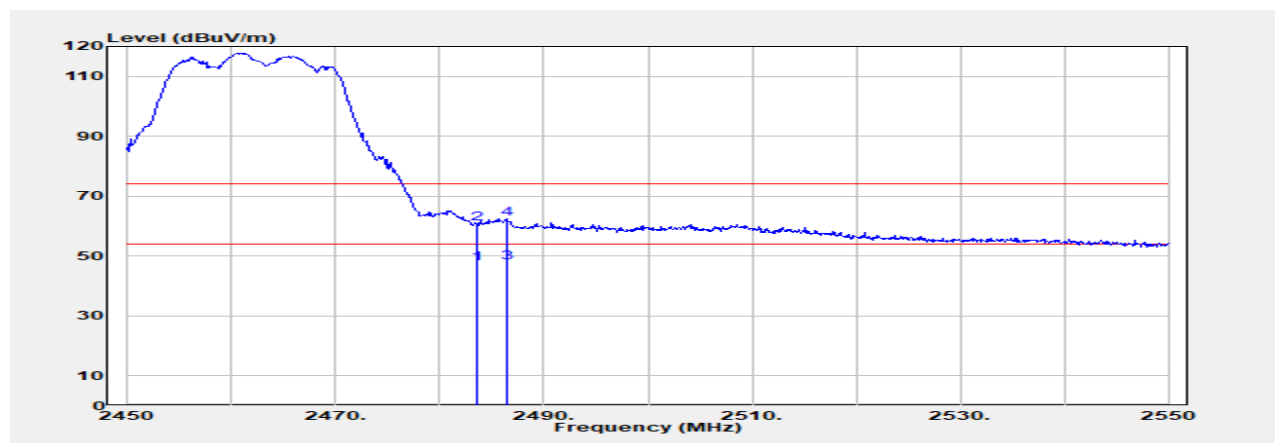
Test Site :SAC G

Test Date :2022-05-11

Temp./Humi. :23.4/60

Antenna Pol. :Vertical

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.500	Average	51.50	-3.92	47.59	54.00	-6.41
2483.500	Peak	64.62	-3.92	60.70	74.00	-13.30
2486.400	Average	51.69	-3.90	47.79	54.00	-6.21
2486.400	Peak	66.24	-3.90	62.34	74.00	-11.66

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Report Number :E2/2022/30056

Operation Mode :802.11g

Test Frequency :2462 MHz

Test Mode :BE CH HIGH

EUT Pol :E1 Plane

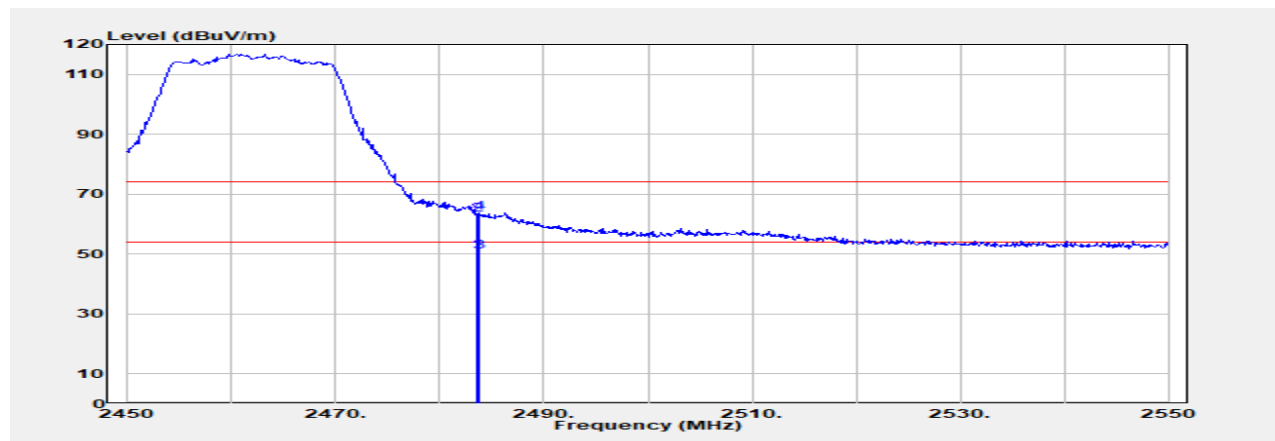
Test Site :SAC G

Test Date :2022-05-11

Temp./Humi. :23.4/60

Antenna Pol. :Horizontal

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	54.60	-3.92	50.69	54.00	-3.31
2483.500	Peak	66.88	-3.92	62.96	74.00	-11.04
2483.700	Average	54.54	-3.92	50.62	54.00	-3.38
2483.700	Peak	67.56	-3.92	63.65	74.00	-10.35

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Report Number :E2/2022/30056

Operation Mode :802.11n20

Test Frequency :2412 MHz

Test Mode :BE CH LOW

EUT Pol :E1 Plane

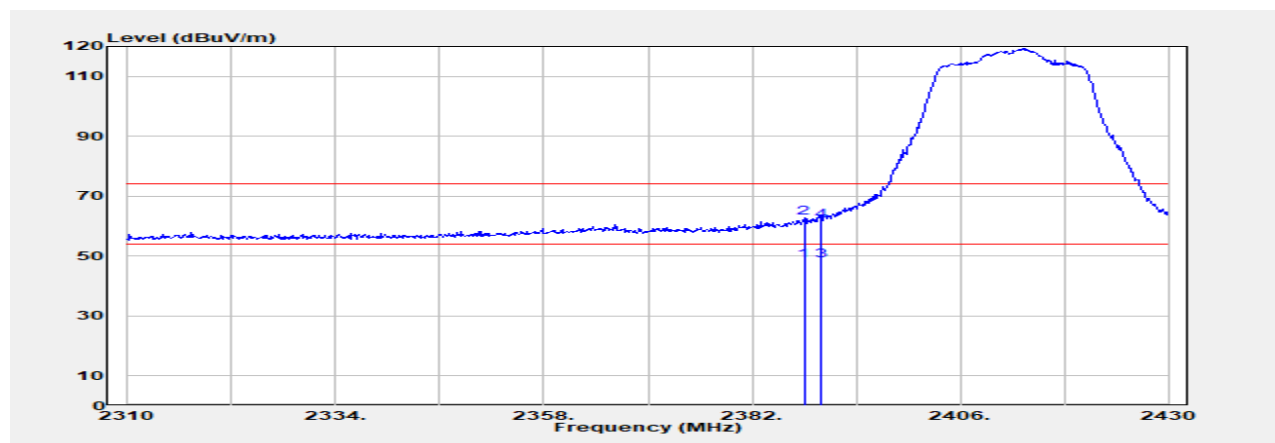
Test Site :SAC G

Test Date :2022-05-13

Temp./Humi. :24.6/70

Antenna Pol. :Vertical

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Reading Level			FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2388.000	Average	52.37	-3.79	48.58	54.00	-5.42
2388.000	Peak	66.65	-3.79	62.85	74.00	-11.15
2390.000	Average	52.36	-3.80	48.55	54.00	-5.45
2390.000	Peak	65.75	-3.80	61.95	74.00	-12.05

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Report Number :E2/2022/30056

Operation Mode :802.11n20

Test Frequency :2412 MHz

Test Mode :BE CH LOW

EUT Pol :E1 Plane

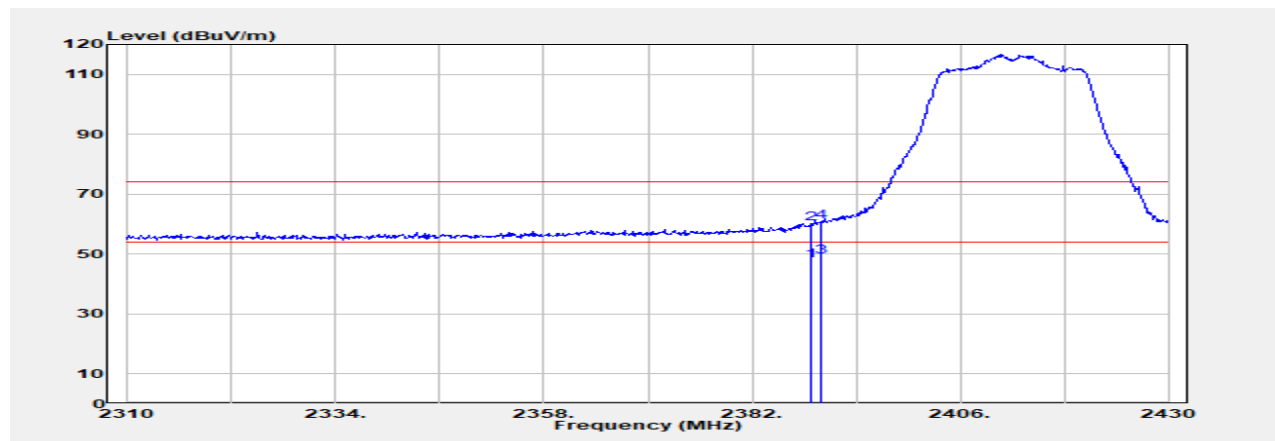
Test Site :SAC G

Test Date :2022-05-13

Temp./Humi. :24.6/70

Antenna Pol. :Horizontal

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2388.720	Average	51.44	-3.80	47.64	54.00	-6.36
2388.720	Peak	64.05	-3.80	60.25	74.00	-13.75
2390.000	Average	52.97	-3.80	49.17	54.00	-4.83
2390.000	Peak	64.48	-3.80	60.68	74.00	-13.32

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Report Number :E2/2022/30056

Operation Mode :802.11n20

Test Frequency :2462 MHz

Test Mode :BE CH HIGH

EUT Pol :E1 Plane

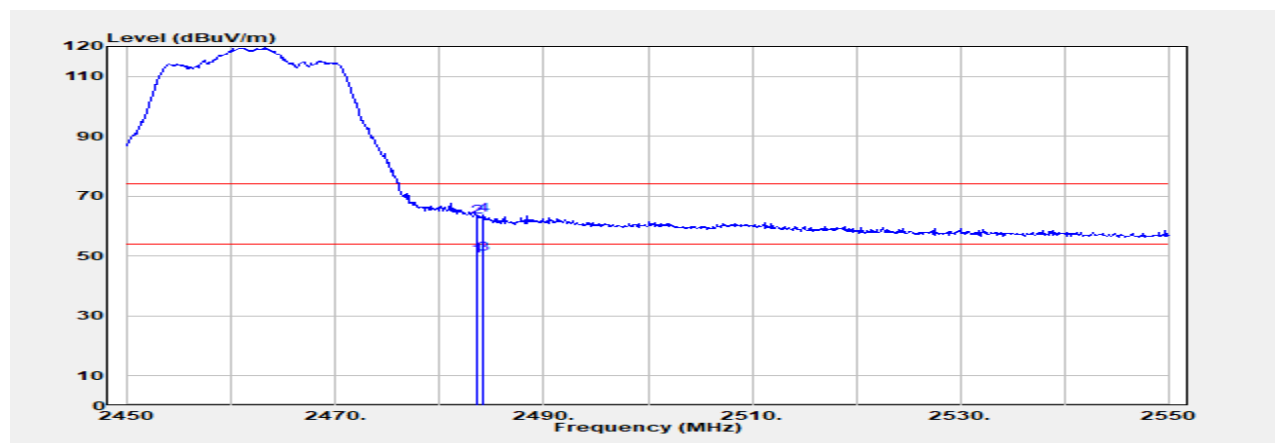
Test Site :SAC G

Test Date :2022-05-12

Temp./Humi. :25.6/66

Antenna Pol. :Vertical

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	54.02	-3.92	50.10	54.00	-3.90
2483.500	Peak	67.02	-3.92	63.10	74.00	-10.90
2484.200	Average	54.50	-3.91	50.59	54.00	-3.41
2484.200	Peak	67.61	-3.91	63.70	74.00	-10.30

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Report Number :E2/2022/30056

Test Site :SAC G

Operation Mode :802.11n20

Test Date :2022-05-12

Test Frequency :2462 MHz

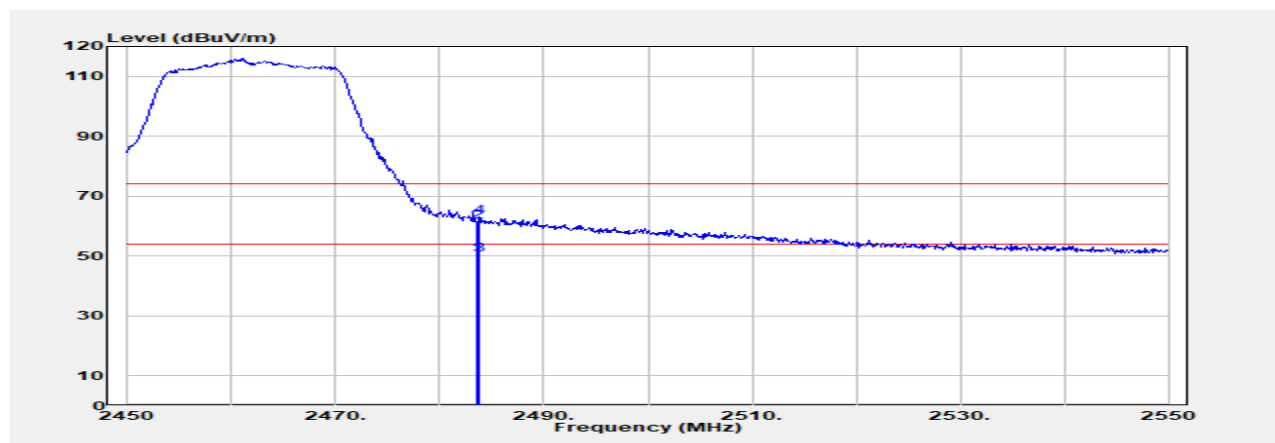
Temp./Humi. :25.6/66

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	54.44	-3.92	50.52	54.00	-3.48
2483.500	Peak	65.36	-3.92	61.44	74.00	-12.56
2483.800	Average	54.18	-3.92	50.27	54.00	-3.73
2483.800	Peak	66.88	-3.92	62.96	74.00	-11.04

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Report Number :E2/2022/30056

Test Site :SAC G

Operation Mode :802.11n40

Test Date :2022-05-12

Test Frequency :2422 MHz

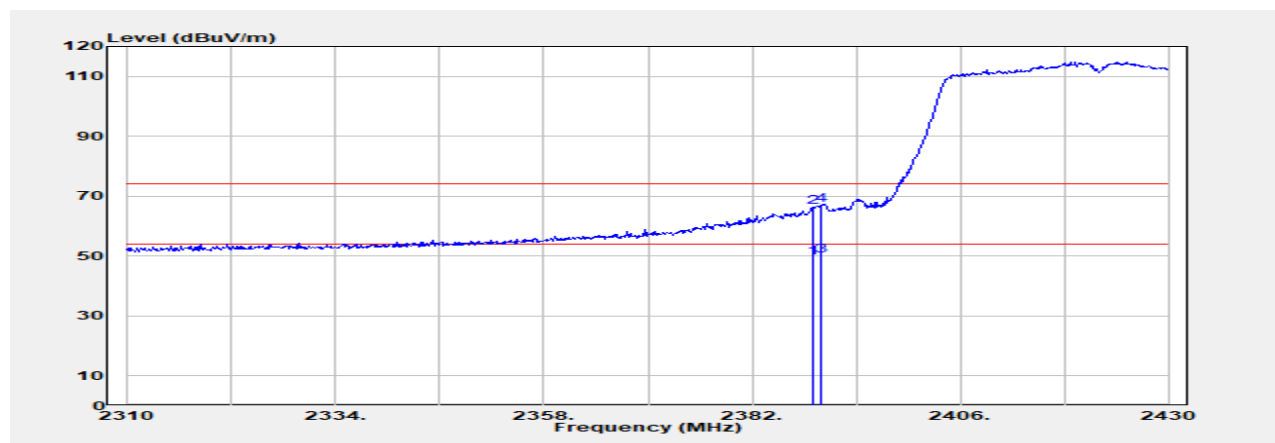
Temp./Humi. :25.6/66

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2388.960	Average	53.32	-3.80	49.53	54.00	-4.47
2388.960	Peak	70.03	-3.80	66.23	74.00	-7.77
2390.000	Average	53.96	-3.80	50.16	54.00	-3.84
2390.000	Peak	70.88	-3.80	67.08	74.00	-6.92

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Report Number :E2/2022/30056

Operation Mode :802.11n40

Test Frequency :2422 MHz

Test Mode :BE CH LOW

EUT Pol :E1 Plane

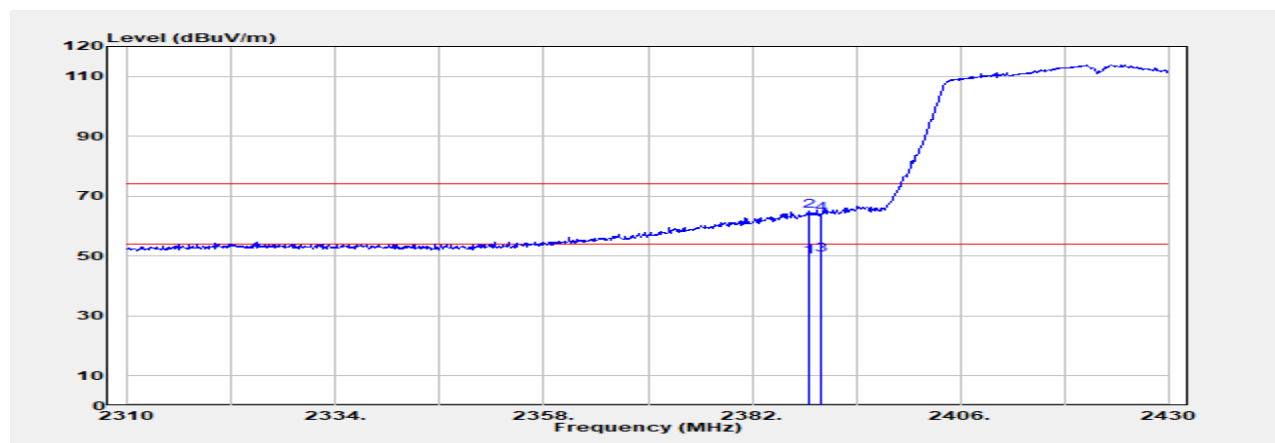
Test Site :SAC G

Test Date :2022-05-12

Temp./Humi. :25.6/66

Antenna Pol. :Horizontal

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2388.600	Average	53.53	-3.79	49.74	54.00	-4.26
2388.600	Peak	68.81	-3.79	65.02	74.00	-8.98
2390.000	Average	54.34	-3.80	50.54	54.00	-3.46
2390.000	Peak	67.95	-3.80	64.15	74.00	-9.85

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Report Number :E2/2022/30056

Operation Mode :802.11n40

Test Frequency :2452 MHz

Test Mode :BE CH HIGH

EUT Pol :E1 Plane

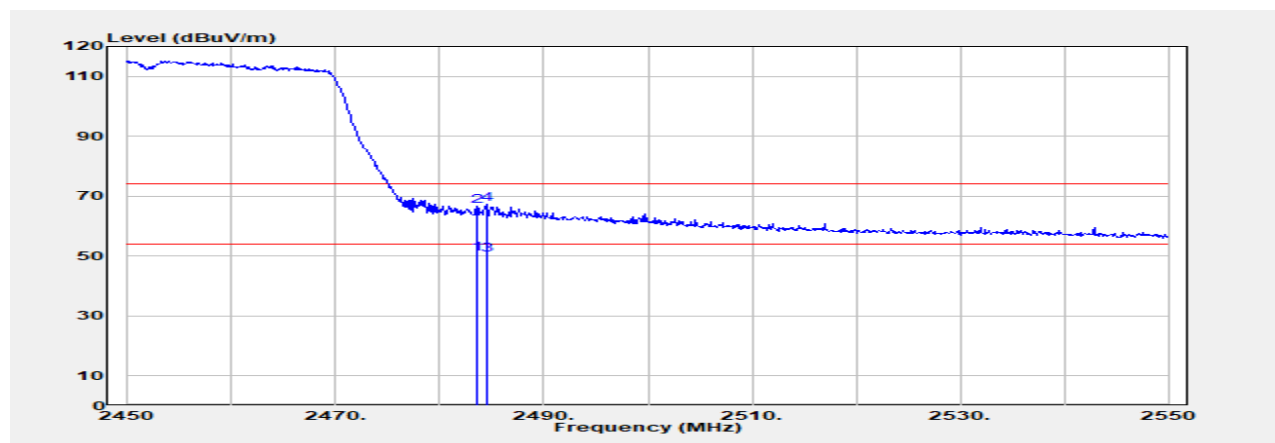
Test Site :SAC G

Test Date :2022-05-12

Temp./Humi. :25.6/66

Antenna Pol. :Vertical

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	54.50	-3.92	50.58	54.00	-3.42
2483.500	Peak	70.54	-3.92	66.62	74.00	-7.38
2484.500	Average	54.45	-3.91	50.54	54.00	-3.46
2484.500	Peak	71.31	-3.91	67.40	74.00	-6.60

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Report Number :E2/2022/30056

Test Site :SAC G

Operation Mode :802.11n40

Test Date :2022-05-12

Test Frequency :2452 MHz

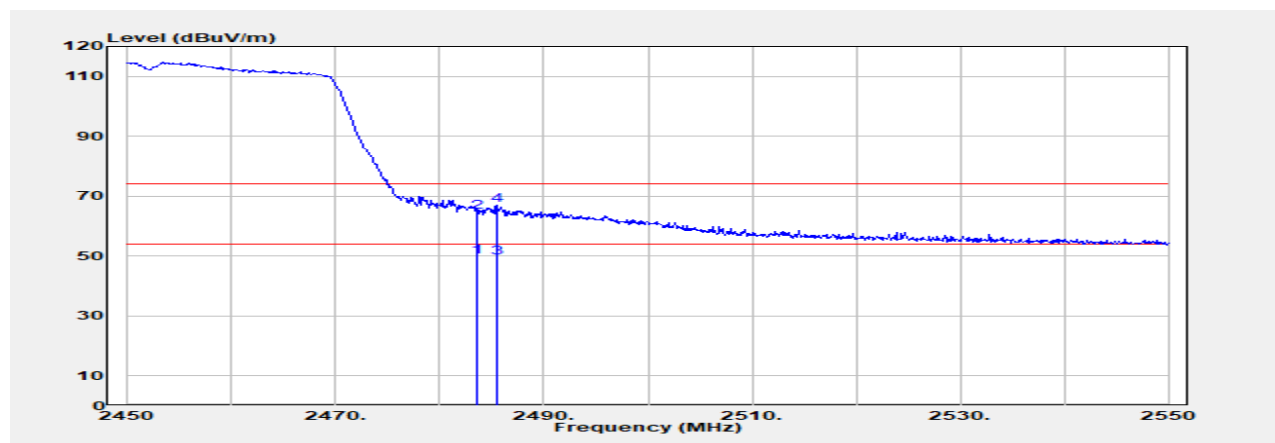
Temp./Humi. :25.6/66

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	53.69	-3.92	49.77	54.00	-4.23
2483.500	Peak	68.62	-3.92	64.70	74.00	-9.30
2485.400	Average	53.32	-3.91	49.42	54.00	-4.58
2485.400	Peak	70.97	-3.91	67.06	74.00	-6.94

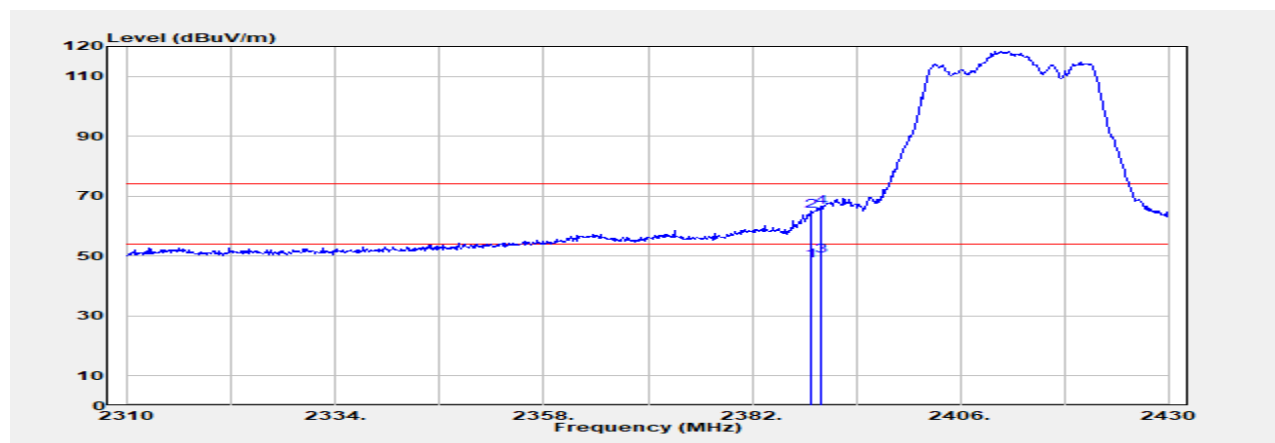
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Report Number :E2/2022/30056
Operation Mode :802.11ax20
Test Frequency :2412 MHz
Test Mode :BE CH LOW RU FULL
EUT Pol :E1 Plane

Test Site :SAC G
Test Date :2022-05-10
Temp./Humi. :20.4/55
Antenna Pol. :Vertical
Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2388.720	Average	52.24	-3.80	48.45	54.00	-5.55
2388.720	Peak	68.95	-3.80	65.15	74.00	-8.85
2390.000	Average	54.01	-3.80	50.21	54.00	-3.79
2390.000	Peak	70.23	-3.80	66.43	74.00	-7.57

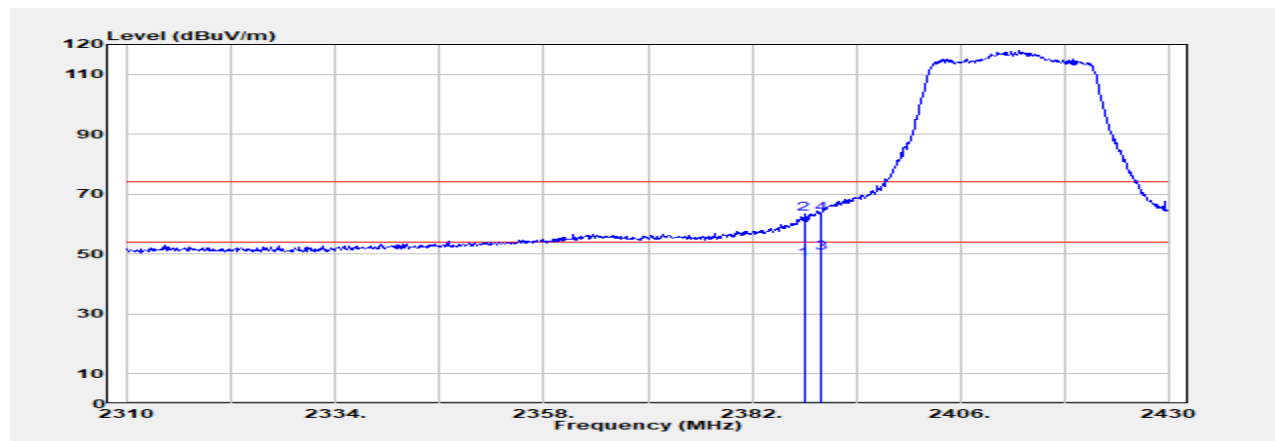
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Report Number :E2/2022/30056
 Operation Mode :802.11ax20
 Test Frequency :2412 MHz
 Test Mode :BE CH LOW RU FULL
 EUT Pol :E1 Plane

Test Site :SAC G
 Test Date :2022-05-10
 Temp./Humi. :20.4/55
 Antenna Pol. :Horizontal
 Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2388.000	Average	51.91	-3.79	48.11	54.00	-5.89
2388.000	Peak	67.35	-3.79	63.55	74.00	-10.45
2390.000	Average	54.06	-3.80	50.26	54.00	-3.74
2390.000	Peak	67.23	-3.80	63.43	74.00	-10.57

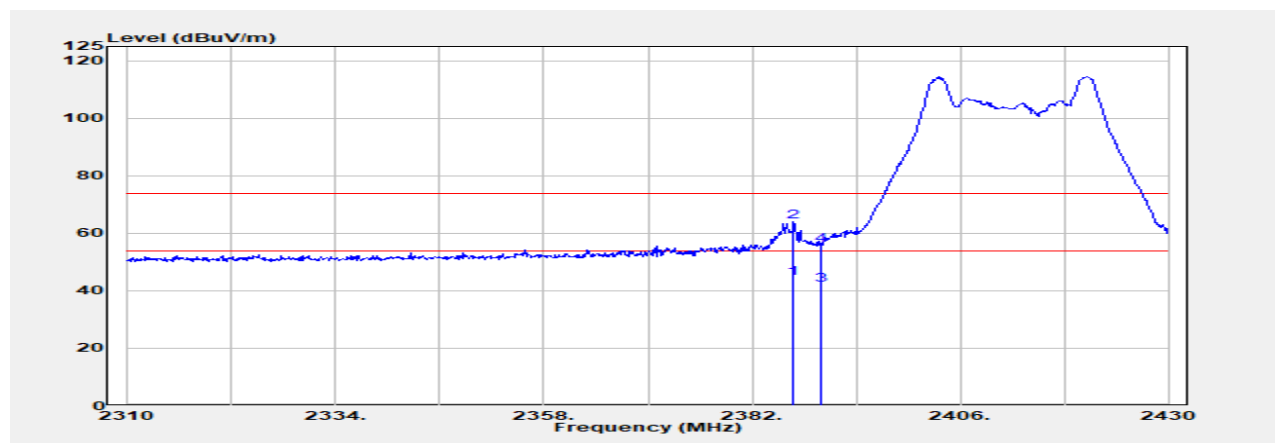
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Report Number :E2/2022/30056
Operation Mode :802.11ax20
Test Frequency :2412 MHz
Test Mode :BE CH LOW RU 26/0
EUT Pol :E1 Plane

Test Site :SAC G
Test Date :2022-05-19
Temp./Humi. :26.8/68
Antenna Pol. :Vertical
Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2386.800	Average	48.03	-3.79	44.24	54.00	-9.76
2386.800	Peak	67.75	-3.79	63.96	74.00	-10.04
2390.000	Average	45.70	-3.80	41.90	54.00	-12.10
2390.000	Peak	59.66	-3.80	55.86	74.00	-18.14

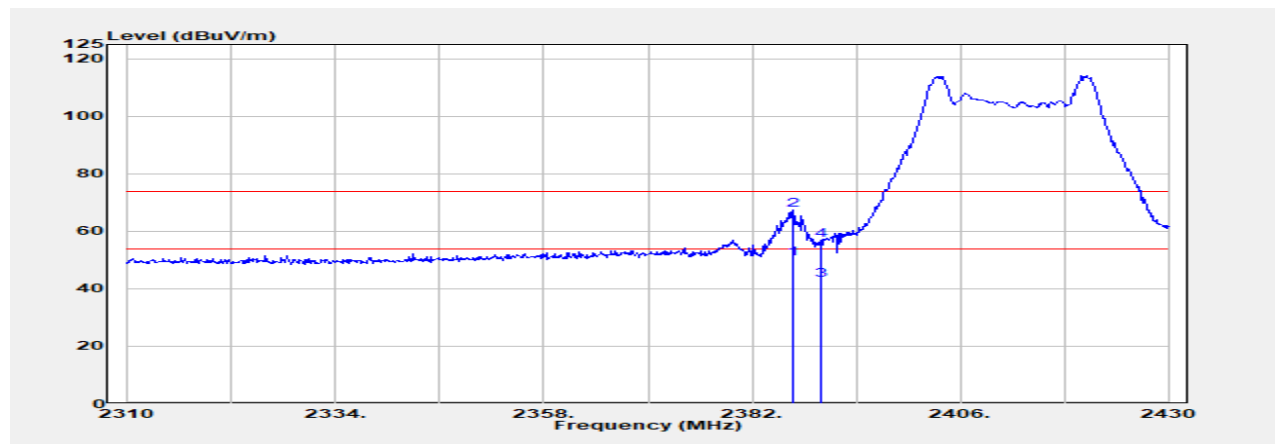
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Report Number :E2/2022/30056
 Operation Mode :802.11ax20
 Test Frequency :2412 MHz
 Test Mode :BE CH LOW RU 26/0
 EUT Pol :E1 Plane

Test Site :SAC G
 Test Date :2022-05-19
 Temp./Humi. :26.8/68
 Antenna Pol. :Horizontal
 Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2386.680	Average	54.29	-3.79	50.50	54.00	-3.50
2386.680	Peak	71.32	-3.79	67.54	74.00	-6.46
2390.000	Average	46.76	-3.80	42.96	54.00	-11.04
2390.000	Peak	60.73	-3.80	56.93	74.00	-17.07

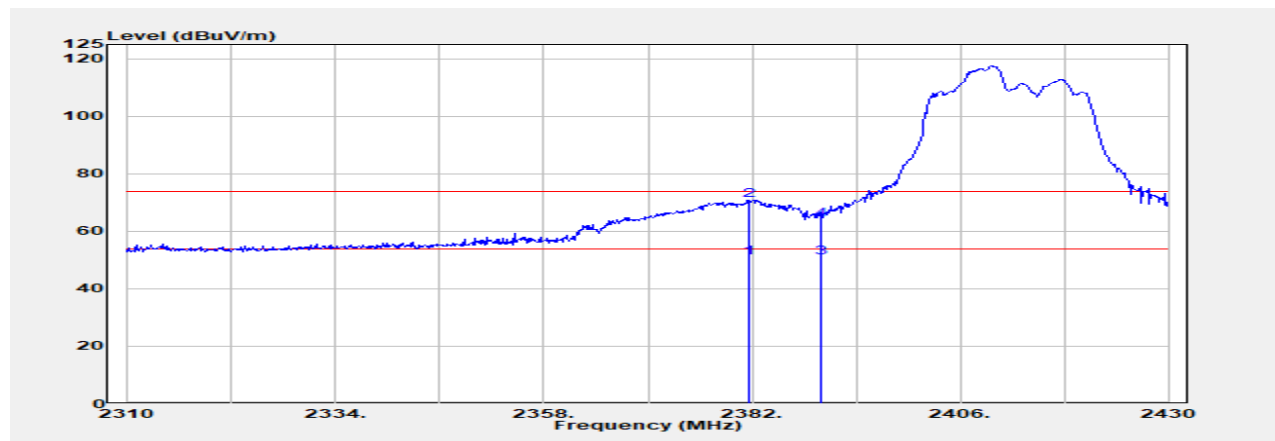
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Report Number :E2/2022/30056
Operation Mode :802.11ax20
Test Frequency :2412 MHz
Test Mode :BE CH LOW RU 52/37
EUT Pol :E1 Plane

Test Site :SAC G
Test Date :2022-05-19
Temp./Humi. :26.8/68
Antenna Pol. :Vertical
Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2381.640	Average	54.61	-3.77	50.84	54.00	-3.16
2381.640	Peak	74.67	-3.77	70.91	74.00	-3.09
2390.000	Average	54.50	-3.80	50.69	54.00	-3.31
2390.000	Peak	67.79	-3.80	63.98	74.00	-10.02

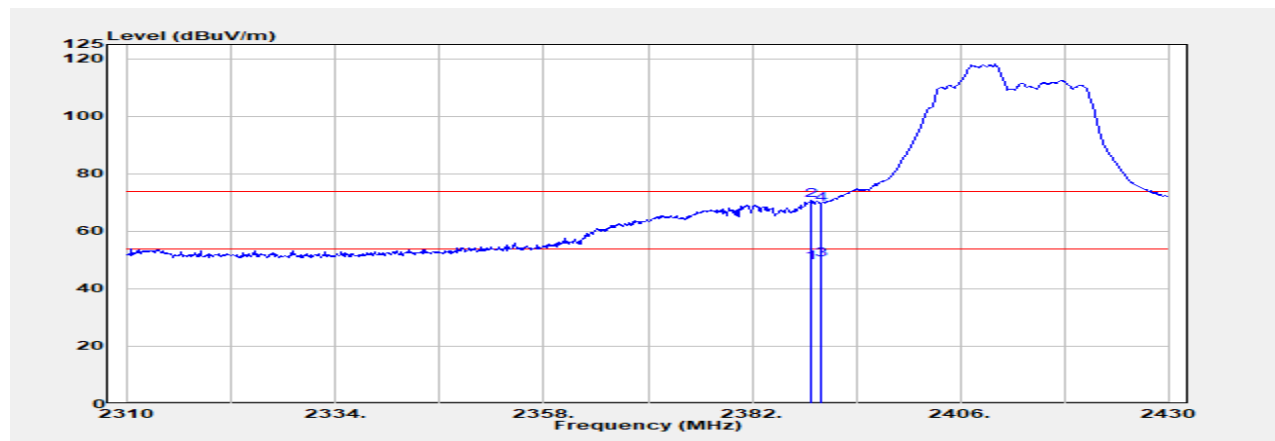
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Report Number :E2/2022/30056
 Operation Mode :802.11ax20
 Test Frequency :2412 MHz
 Test Mode :BE CH LOW RU 52/37
 EUT Pol :E1 Plane

Test Site :SAC G
 Test Date :2022-05-19
 Temp./Humi. :26.8/68
 Antenna Pol. :Horizontal
 Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2388.840	Average	52.92	-3.80	49.13	54.00	-4.87
2388.840	Peak	74.46	-3.80	70.67	74.00	-3.33
2390.000	Average	53.91	-3.80	50.11	54.00	-3.89
2390.000	Peak	73.28	-3.80	69.48	74.00	-4.52

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Report Number :E2/2022/30056

Test Site :SAC G

Operation Mode :802.11ax20

Test Date :2022-05-19

Test Frequency :2412 MHz

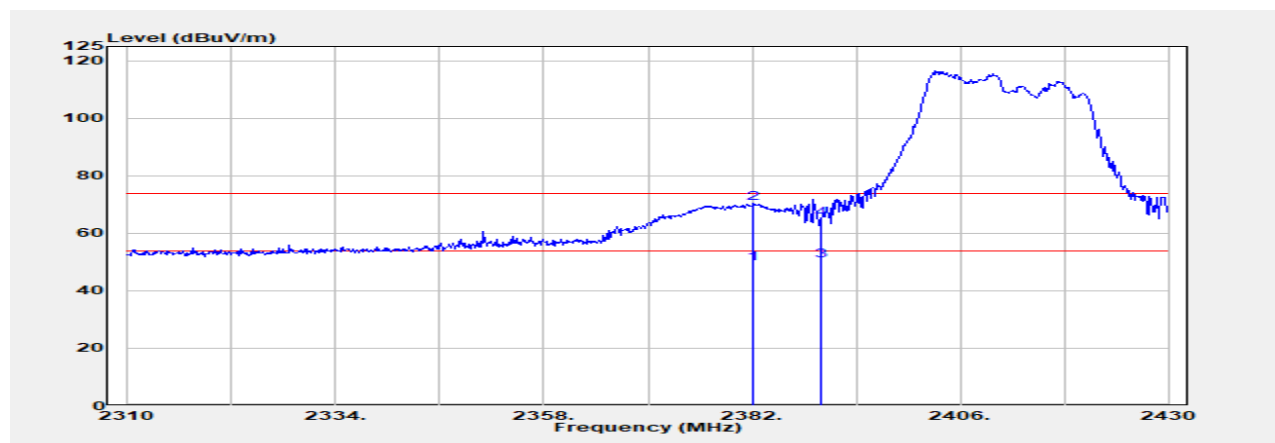
Temp./Humi. :26.8/68

Test Mode :BE CH LOW RU 106/53

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Reading Level			FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2382.120	Average	53.37	-3.77	49.60	54.00	-4.40
2382.120	Peak	74.27	-3.77	70.50	74.00	-3.50
2390.000	Average	54.20	-3.80	50.40	54.00	-3.60
2390.000	Peak	68.78	-3.80	64.98	74.00	-9.02

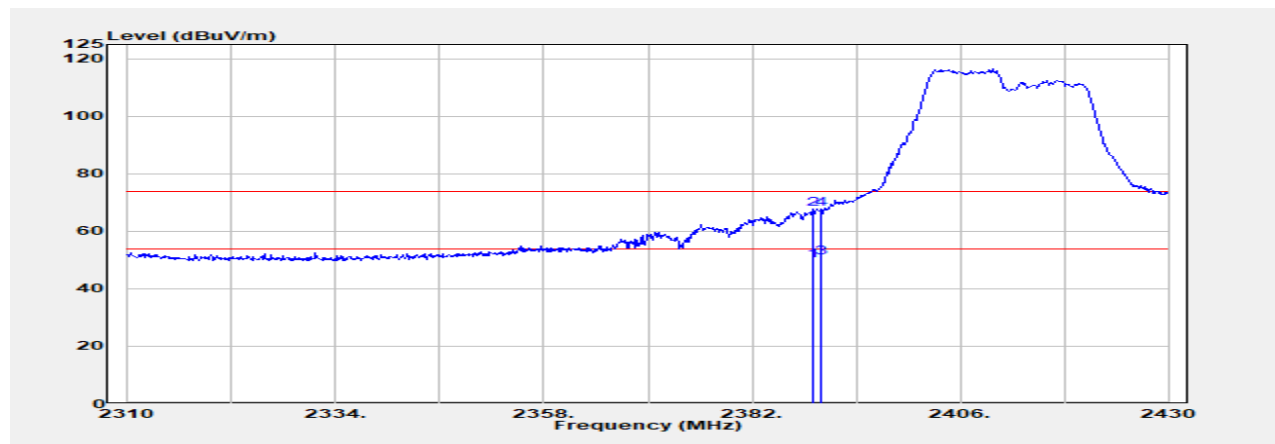
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Report Number :E2/2022/30056
 Operation Mode :802.11ax20
 Test Frequency :2412 MHz
 Test Mode :BE CH LOW RU 106/53
 EUT Pol :E1 Plane

Test Site :SAC G
 Test Date :2022-05-19
 Temp./Humi. :26.8/68
 Antenna Pol. :Horizontal
 Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2388.960	Average	53.73	-3.80	49.93	54.00	-4.07
2388.960	Peak	71.46	-3.80	67.67	74.00	-6.33
2390.000	Average	54.75	-3.80	50.95	54.00	-3.05
2390.000	Peak	71.49	-3.80	67.69	74.00	-6.31

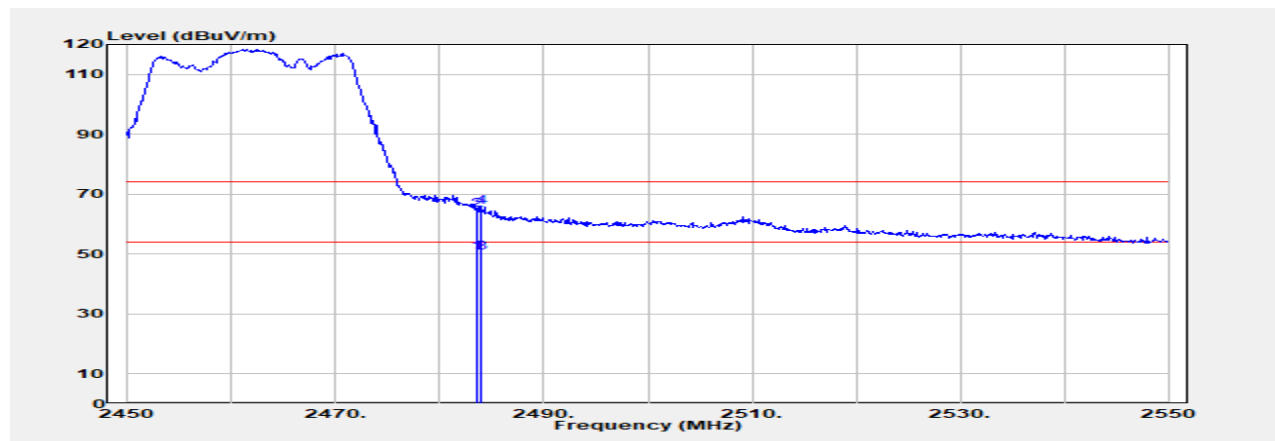
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Report Number :E2/2022/30056
 Operation Mode :802.11ax20
 Test Frequency :2462 MHz
 Test Mode :BE CH HIGH RU FULL
 EUT Pol :E1 Plane

Test Site :SAC G
 Test Date :2022-05-12
 Temp./Humi. :25.6/66
 Antenna Pol. :Vertical
 Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	54.43	-3.92	50.51	54.00	-3.49
2483.500	Peak	68.66	-3.92	64.74	74.00	-9.26
2483.900	Average	54.25	-3.92	50.33	54.00	-3.67
2483.900	Peak	69.58	-3.92	65.66	74.00	-8.34

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Report Number :E2/2022/30056

Test Site :SAC G

Operation Mode :802.11ax20

Test Date :2022-05-12

Test Frequency :2462 MHz

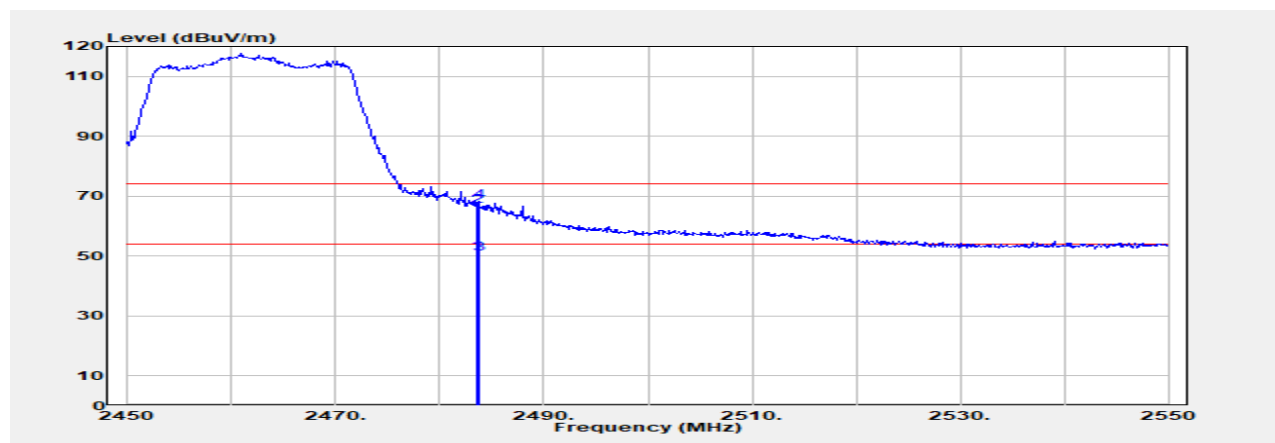
Temp./Humi. :25.6/66

Test Mode :BE CH HIGH RU FULL

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	54.88	-3.92	50.96	54.00	-3.04
2483.500	Peak	70.73	-3.92	66.81	74.00	-7.19
2483.700	Average	54.72	-3.92	50.80	54.00	-3.20
2483.700	Peak	72.25	-3.92	68.33	74.00	-5.67

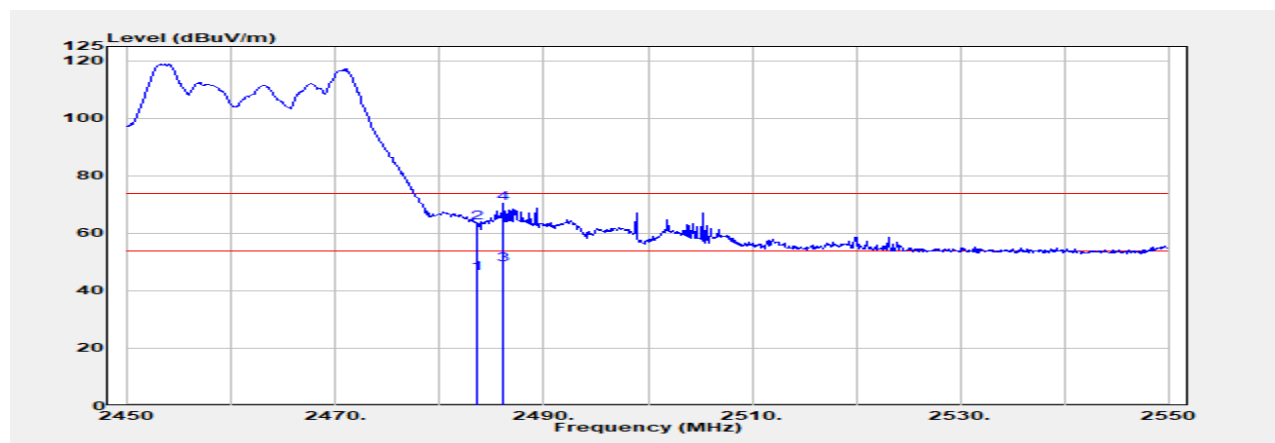
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Report Number :E2/2022/30056
Operation Mode :802.11ax20
Test Frequency :2462 MHz
Test Mode :BE CH HIGH RU 26/8
EUT Pol :E1 Plane

Test Site :SAC G
Test Date :2022-05-19
Temp./Humi. :26.8/68
Antenna Pol. :Vertical
Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	50.12	-3.92	46.20	54.00	-7.80
2483.500	Peak	67.56	-3.92	63.64	74.00	-10.36
2486.100	Average	53.08	-3.90	49.17	54.00	-4.83
2486.100	Peak	74.44	-3.90	70.54	74.00	-3.46

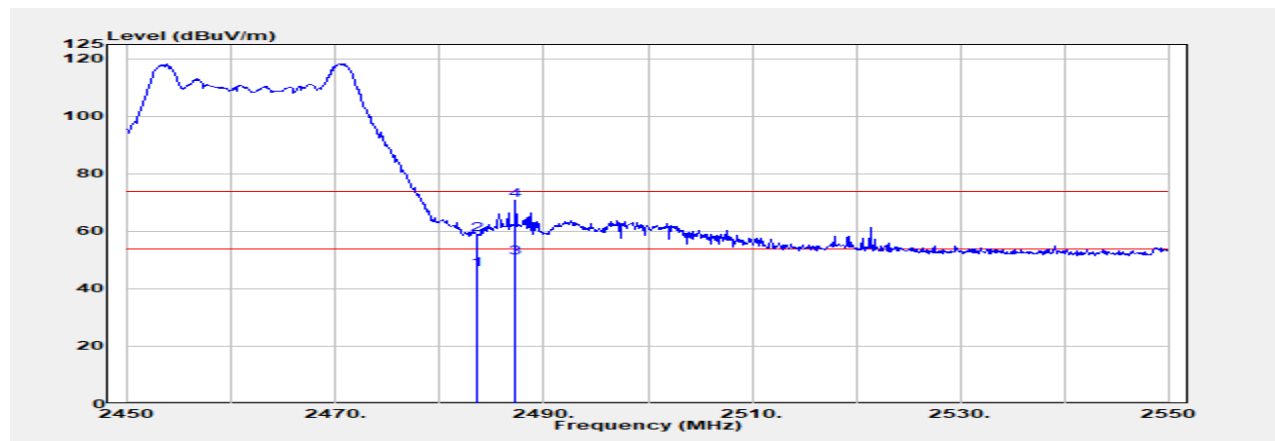
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Report Number :E2/2022/30056
 Operation Mode :802.11ax20
 Test Frequency :2462 MHz
 Test Mode :BE CH HIGH RU 26/8
 EUT Pol :E1 Plane

Test Site :SAC G
 Test Date :2022-05-19
 Temp./Humi. :26.8/68
 Antenna Pol. :Horizontal
 Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	50.53	-3.92	46.61	54.00	-7.39
2483.500	Peak	62.82	-3.92	58.90	74.00	-15.10
2487.300	Average	54.67	-3.90	50.77	54.00	-3.23
2487.300	Peak	74.56	-3.90	70.66	74.00	-3.34

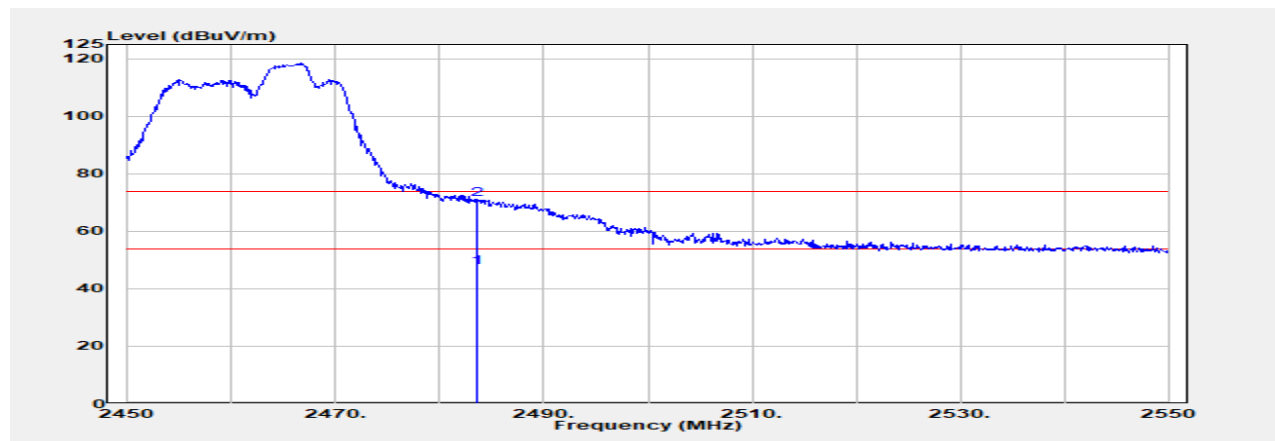
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Report Number :E2/2022/30056
 Operation Mode :802.11ax20
 Test Frequency :2462 MHz
 Test Mode :BE CH HIGH RU 52/40
 EUT Pol :E1 Plane

Test Site :SAC G
 Test Date :2022-05-19
 Temp./Humi. :26.8/68
 Antenna Pol. :Vertical
 Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	51.39	-3.92	47.47	54.00	-6.53
2483.500	Peak	74.89	-3.92	70.97	74.00	-3.03

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Report Number :E2/2022/30056

Test Site :SAC G

Operation Mode :802.11ax20

Test Date :2022-05-19

Test Frequency :2462 MHz

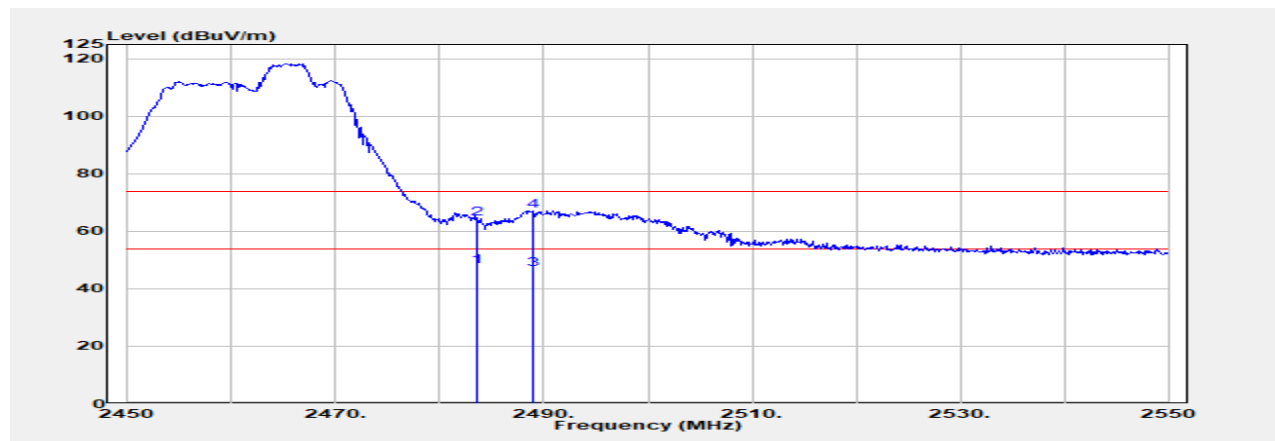
Temp./Humi. :26.8/68

Test Mode :BE CH HIGH RU 52/40

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	51.62	-3.92	47.70	54.00	-6.30
2483.500	Peak	68.28	-3.92	64.36	74.00	-9.64
2488.900	Average	50.73	-3.89	46.84	54.00	-7.16
2488.900	Peak	71.12	-3.89	67.23	74.00	-6.77

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Report Number :E2/2022/30056

Operation Mode :802.11ax20

Test Frequency :2462 MHz

Test Mode :BE CH HIGH RU 106/54

EUT Pol :E1 Plane

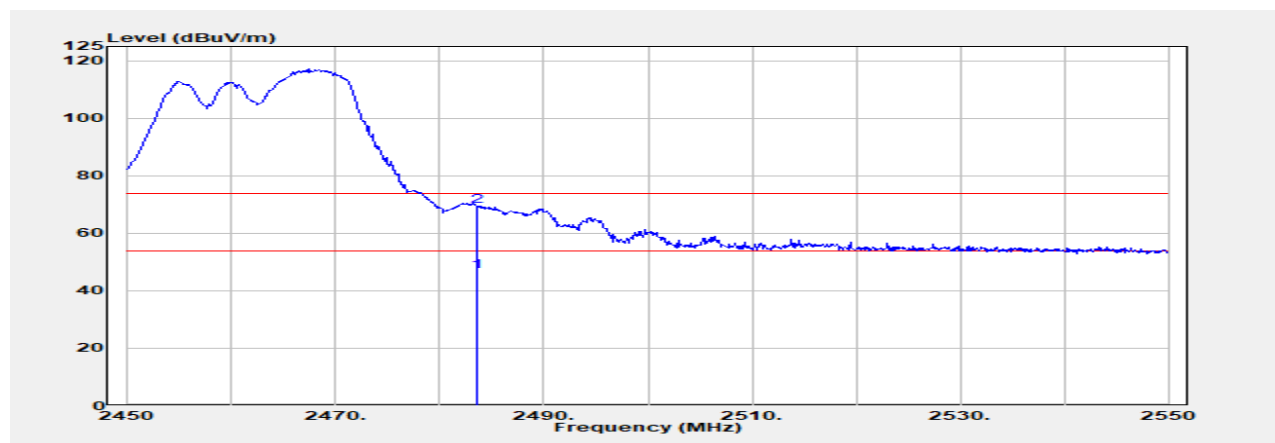
Test Site :SAC G

Test Date :2022-05-19

Temp./Humi. :26.8/68

Antenna Pol. :Vertical

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	50.58	-3.92	46.66	54.00	-7.34
2483.500	Peak	73.44	-3.92	69.52	74.00	-4.48

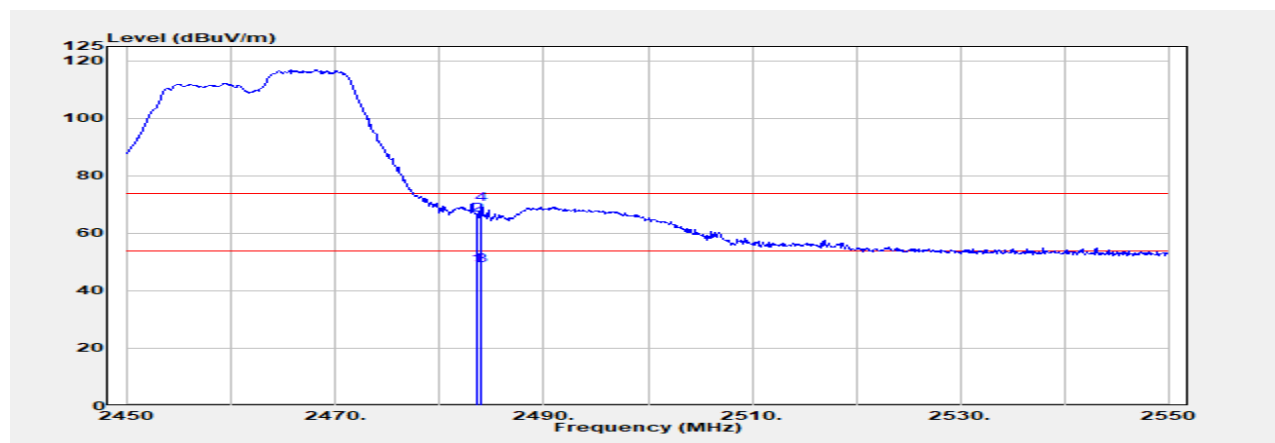
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Report Number :E2/2022/30056
 Operation Mode :802.11ax20
 Test Frequency :2462 MHz
 Test Mode :BE CH HIGH RU 106/54
 EUT Pol :E1 Plane

Test Site :SAC G
 Test Date :2022-05-19
 Temp./Humi. :26.8/68
 Antenna Pol. :Horizontal
 Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	52.58	-3.92	48.66	54.00	-5.34
2483.500	Peak	70.25	-3.92	66.33	74.00	-7.67
2483.900	Average	52.58	-3.92	48.66	54.00	-5.34
2483.900	Peak	74.11	-3.92	70.20	74.00	-3.80

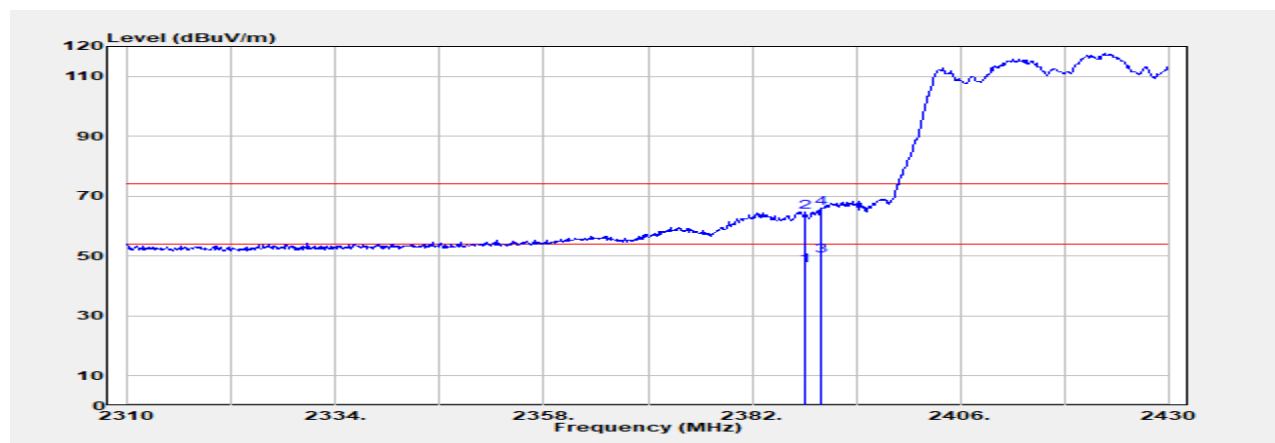
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Report Number :E2/2022/30056
Operation Mode :802.11ax40
Test Frequency :2422 MHz
Test Mode :BE CH LOW RU FULL
EUT Pol :E1 Plane

Test Site :SAC G
Test Date :2022-05-12
Temp./Humi. :25.6/66
Antenna Pol. :Vertical
Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Reading Level			FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2388.120	Average	50.78	-3.79	46.98	54.00	-7.02
2388.120	Peak	68.52	-3.79	64.73	74.00	-9.27
2390.000	Average	53.81	-3.80	50.01	54.00	-3.99
2390.000	Peak	69.70	-3.80	65.90	74.00	-8.10

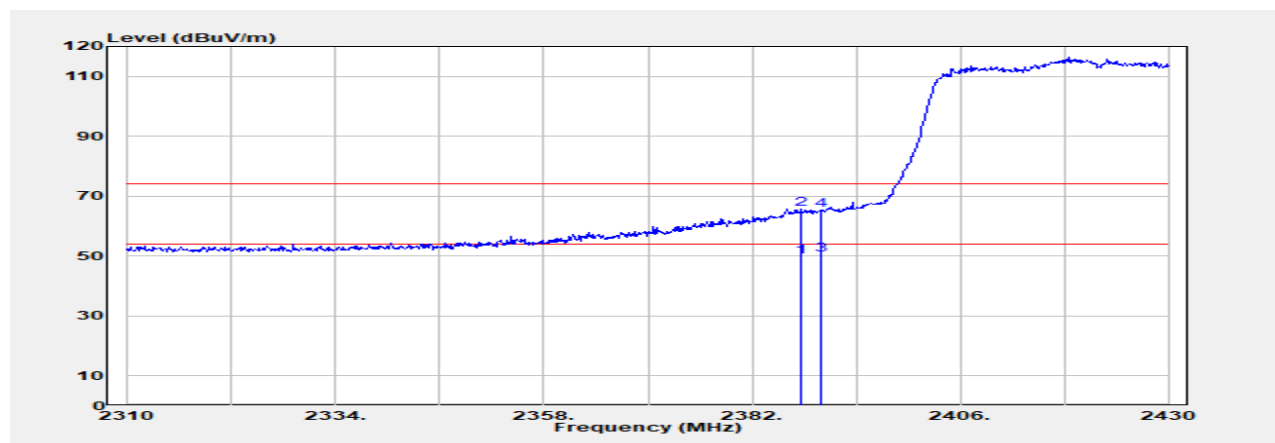
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Report Number :E2/2022/30056
Operation Mode :802.11ax40
Test Frequency :2422 MHz
Test Mode :BE CH LOW RU FULL
EUT Pol :E1 Plane

Test Site :SAC G
Test Date :2022-05-12
Temp./Humi. :25.6/66
Antenna Pol. :Horizontal
Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2387.760	Average	53.69	-3.79	49.90	54.00	-4.10
2387.760	Peak	69.44	-3.79	65.64	74.00	-8.36
2390.000	Average	54.33	-3.80	50.53	54.00	-3.47
2390.000	Peak	69.28	-3.80	65.48	74.00	-8.52

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Report Number :E2/2022/30056

Test Site :SAC G

Operation Mode :802.11ax40

Test Date :2022-05-19

Test Frequency :2422 MHz

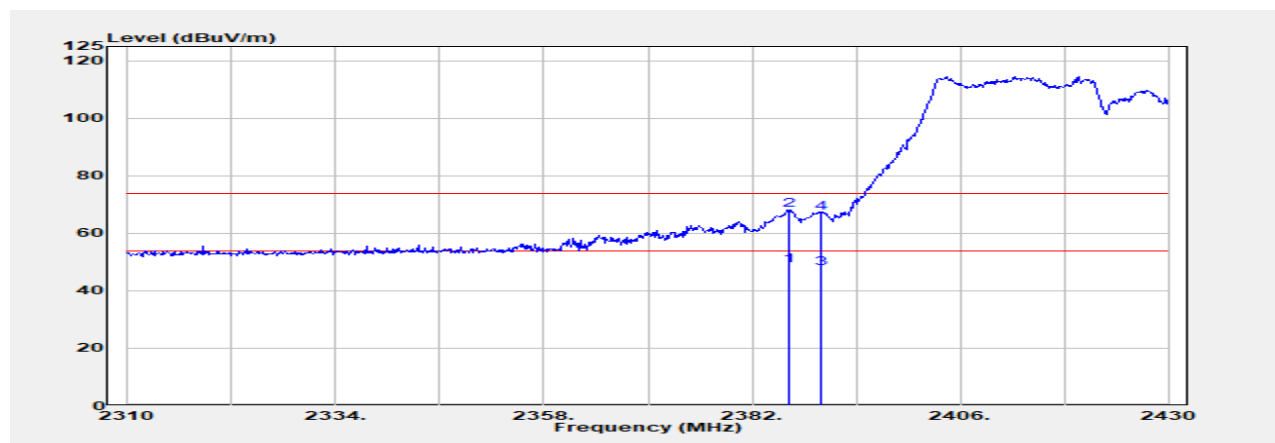
Temp./Humi. :26.8/68

Test Mode :BE CH LOW RU 242/61

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2386.320	Average	52.69	-3.79	48.91	54.00	-5.09
2386.320	Peak	71.91	-3.79	68.12	74.00	-5.88
2390.000	Average	51.46	-3.80	47.66	54.00	-6.34
2390.000	Peak	70.84	-3.80	67.04	74.00	-6.96

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Report Number :E2/2022/30056

Test Site :SAC G

Operation Mode :802.11ax40

Test Date :2022-05-19

Test Frequency :2422 MHz

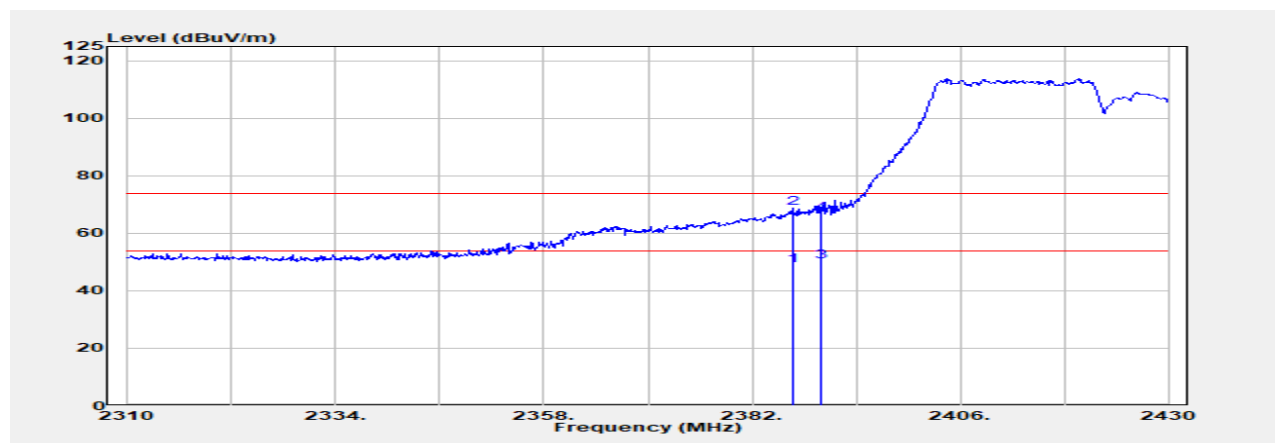
Temp./Humi. :26.8/68

Test Mode :BE CH LOW RU 242/61

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2386.680	Average	52.64	-3.79	48.85	54.00	-5.15
2386.680	Peak	72.56	-3.79	68.77	74.00	-5.23
2390.000	Average	54.07	-3.80	50.26	54.00	-3.74
2390.000	Peak	70.51	-3.80	66.71	74.00	-7.29

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Report Number :E2/2022/30056

Test Site :SAC G

Operation Mode :802.11ax40

Test Date :2022-05-12

Test Frequency :2452 MHz

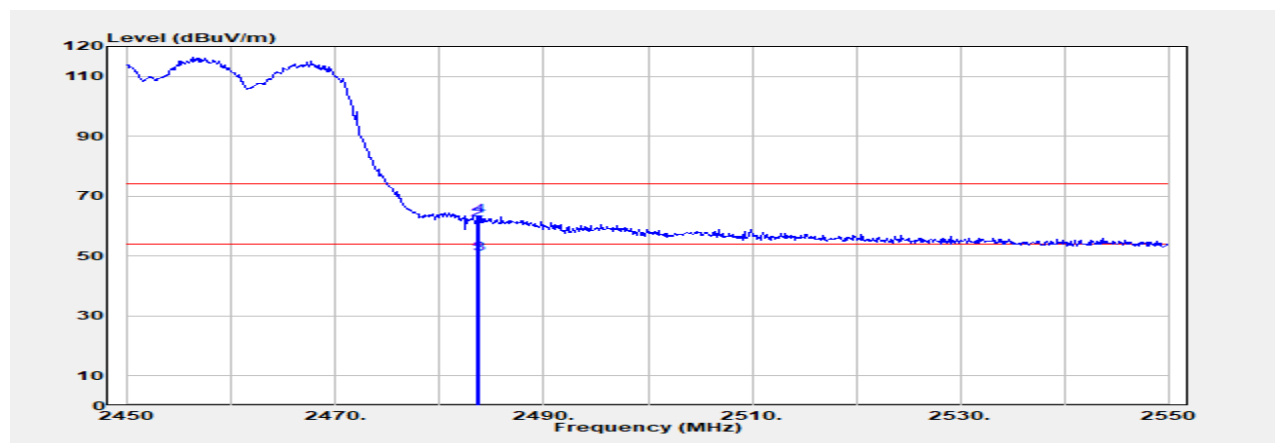
Temp./Humi. :25.6/66

Test Mode :BE CH HIGH RU FULL

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Reading Level	FS	@3m			
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	54.39	-3.92	50.47	54.00	-3.53
2483.500	Peak	66.11	-3.92	62.19	74.00	-11.81
2483.700	Average	54.52	-3.92	50.60	54.00	-3.40
2483.700	Peak	67.22	-3.92	63.30	74.00	-10.70

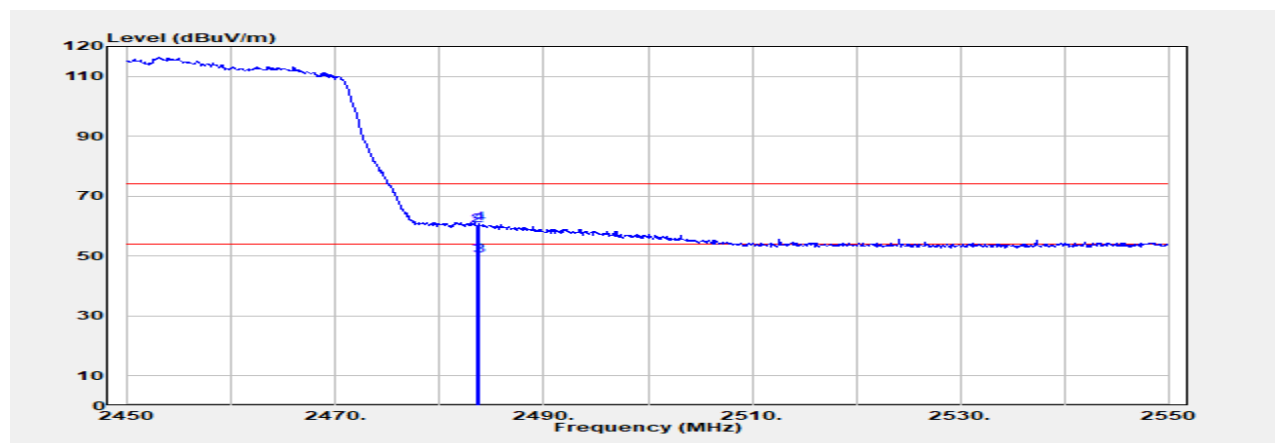
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Report Number :E2/2022/30056
 Operation Mode :802.11ax40
 Test Frequency :2452 MHz
 Test Mode :BE CH HIGH RU FULL
 EUT Pol :E1 Plane

Test Site :SAC G
 Test Date :2022-05-12
 Temp./Humi. :25.6/66
 Antenna Pol. :Horizontal
 Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	54.29	-3.92	50.37	54.00	-3.63
2483.500	Peak	64.18	-3.92	60.26	74.00	-13.74
2483.800	Average	54.03	-3.92	50.11	54.00	-3.89
2483.800	Peak	64.67	-3.92	60.76	74.00	-13.24

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Report Number :E2/2022/30056

Operation Mode :802.11ax40

Test Frequency :2452 MHz

Test Mode :BE CH HIGH RU 242/62

EUT Pol :E1 Plane

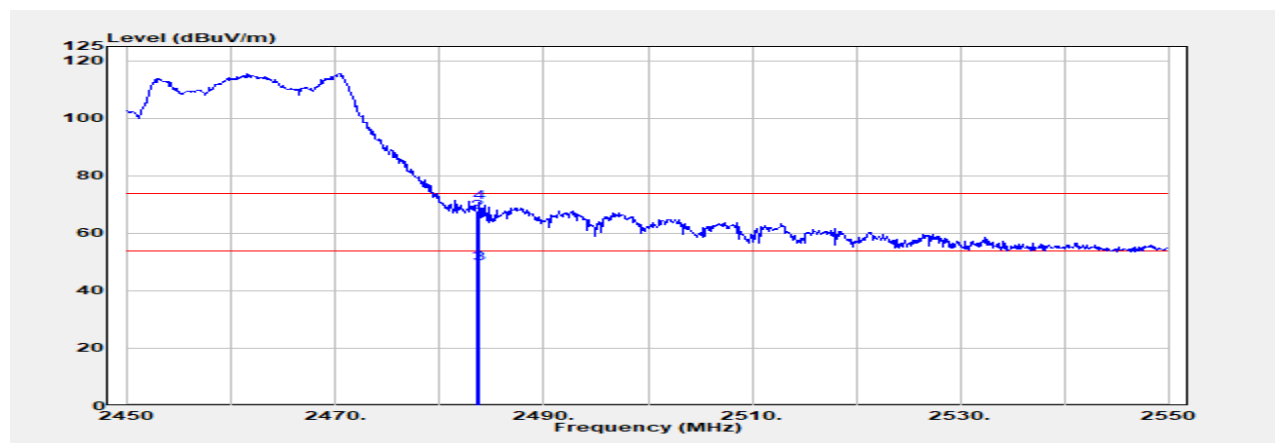
Test Site :SAC G

Test Date :2022-05-19

Temp./Humi. :26.8/68

Antenna Pol. :Vertical

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.500	Average	53.60	-3.92	49.68	54.00	-4.32
2483.500	Peak	71.45	-3.92	67.53	74.00	-6.47
2483.800	Average	53.32	-3.92	49.40	54.00	-4.60
2483.800	Peak	74.60	-3.92	70.69	74.00	-3.31

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Report Number :E2/2022/30056

Test Site :SAC G

Operation Mode :802.11ax40

Test Date :2022-05-19

Test Frequency :2452 MHz

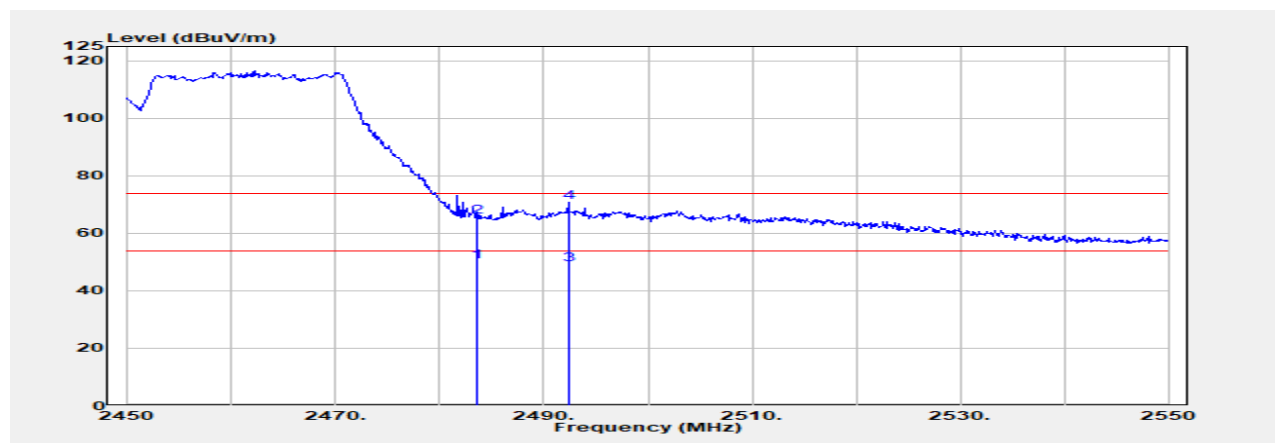
Temp./Humi. :26.8/68

Test Mode :BE CH HIGH RU 242/62

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	54.17	-3.92	50.25	54.00	-3.75
2483.500	Peak	69.58	-3.92	65.66	74.00	-8.34
2492.400	Average	52.90	-3.87	49.03	54.00	-4.97
2492.400	Peak	74.74	-3.87	70.86	74.00	-3.14

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Beamforming

Report Number :E2/2022/30056

Operation Mode :802.11ax20

Test Frequency :2412 MHz

Test Mode :BE CH LOW

EUT Pol :E1 Plane

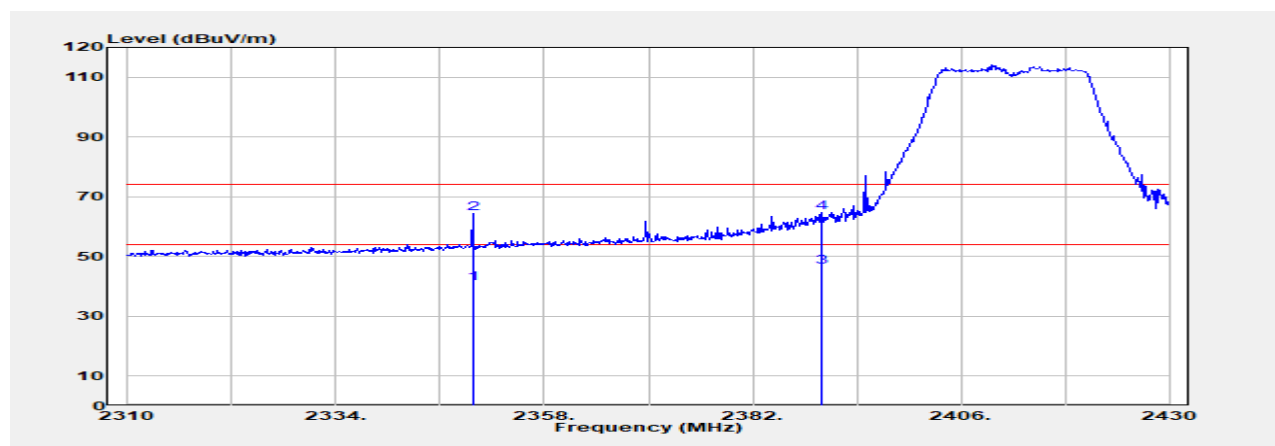
Test Site :SAC G

Test Date :2022-05-25

Temp./Humi. :26.0/60

Antenna Pol. :Vertical

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2349.720	Average	44.46	-3.62	40.84	54.00	-13.16
2349.720	Peak	68.11	-3.62	64.48	74.00	-9.52
2390.000	Average	50.42	-3.80	46.62	54.00	-7.38
2390.000	Peak	68.42	-3.80	64.62	74.00	-9.38

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Report Number :E2/2022/30056

Operation Mode :802.11ax20

Test Frequency :2412 MHz

Test Mode :BE CH LOW

EUT Pol :E1 Plane

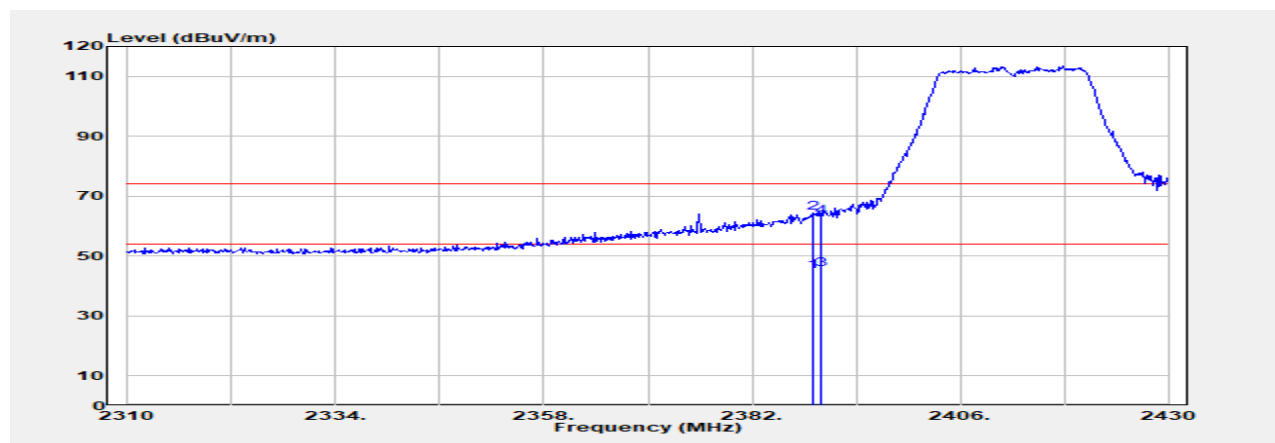
Test Site :SAC G

Test Date :2022-05-25

Temp./Humi. :26.0/60

Antenna Pol. :Horizontal

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2388.960	Average	48.57	-3.80	44.78	54.00	-9.22
2388.960	Peak	68.16	-3.80	64.36	74.00	-9.64
2390.000	Average	49.48	-3.80	45.68	54.00	-8.32
2390.000	Peak	66.76	-3.80	62.95	74.00	-11.05

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Report Number :E2/2022/30056

Operation Mode :802.11ax20

Test Frequency :2462 MHz

Test Mode :BE CH HIGH

EUT Pol :E1 Plane

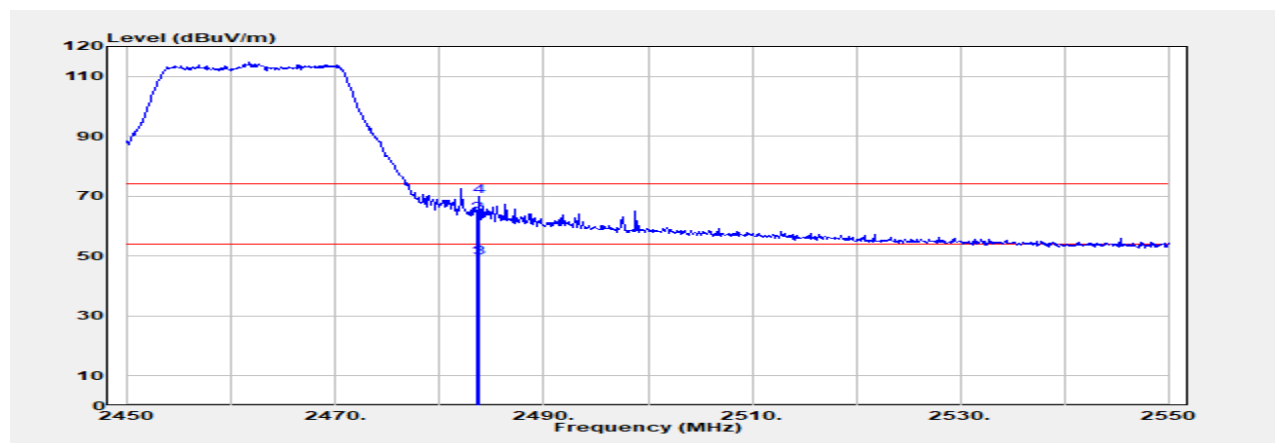
Test Site :SAC G

Test Date :2022-05-25

Temp./Humi. :26.0/60

Antenna Pol. :Vertical

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	53.51	-3.92	49.59	54.00	-4.41
2483.500	Peak	67.90	-3.92	63.98	74.00	-10.02
2483.800	Average	53.37	-3.92	49.46	54.00	-4.54
2483.800	Peak	73.77	-3.92	69.86	74.00	-4.14

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Report Number :E2/2022/30056

Operation Mode :802.11ax20

Test Frequency :2462 MHz

Test Mode :BE CH HIGH

EUT Pol :E1 Plane

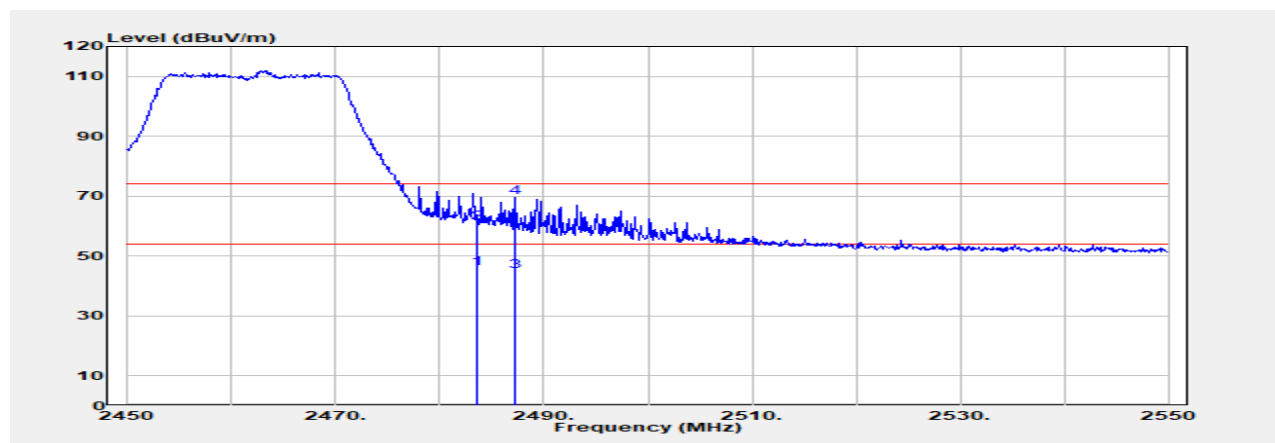
Test Site :SAC G

Test Date :2022-05-25

Temp./Humi. :26.0/60

Antenna Pol. :Horizontal

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	49.81	-3.92	45.89	54.00	-8.11
2483.500	Peak	65.17	-3.92	61.25	74.00	-12.75
2487.300	Average	48.69	-3.90	44.79	54.00	-9.21
2487.300	Peak	73.54	-3.90	69.64	74.00	-4.36

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Report Number :E2/2022/30056

Operation Mode :802.11ax40

Test Frequency :2422 MHz

Test Mode :BE CH LOW

EUT Pol :E1 Plane

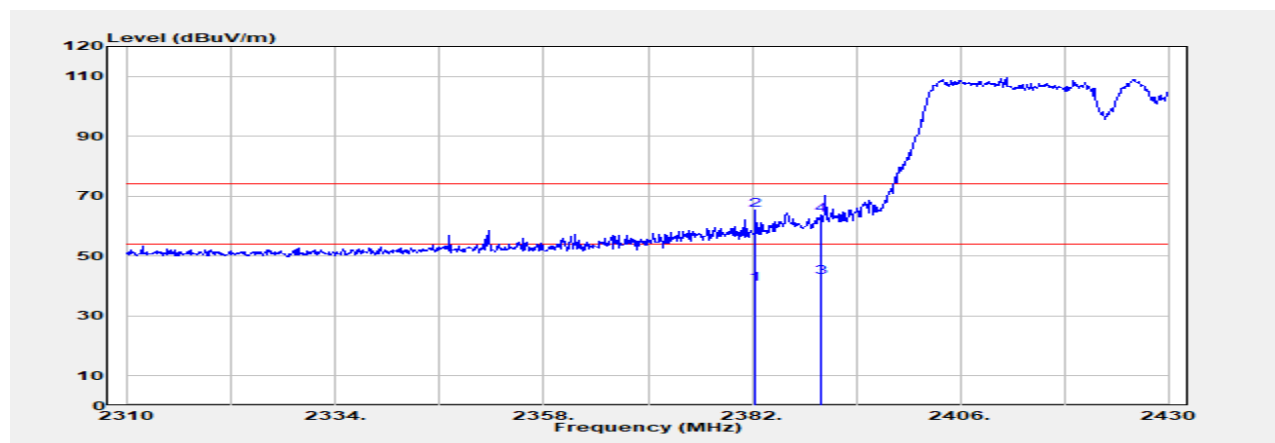
Test Site :SAC G

Test Date :2022-05-27

Temp./Humi. :26.0/60

Antenna Pol. :Vertical

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2382.360	Average	44.41	-3.77	40.64	54.00	-13.36
2382.360	Peak	69.19	-3.77	65.42	74.00	-8.58
2390.000	Average	46.79	-3.80	42.99	54.00	-11.01
2390.000	Peak	67.47	-3.80	63.67	74.00	-10.33

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Report Number :E2/2022/30056

Operation Mode :802.11ax40

Test Frequency :2422 MHz

Test Mode :BE CH LOW

EUT Pol :E1 Plane

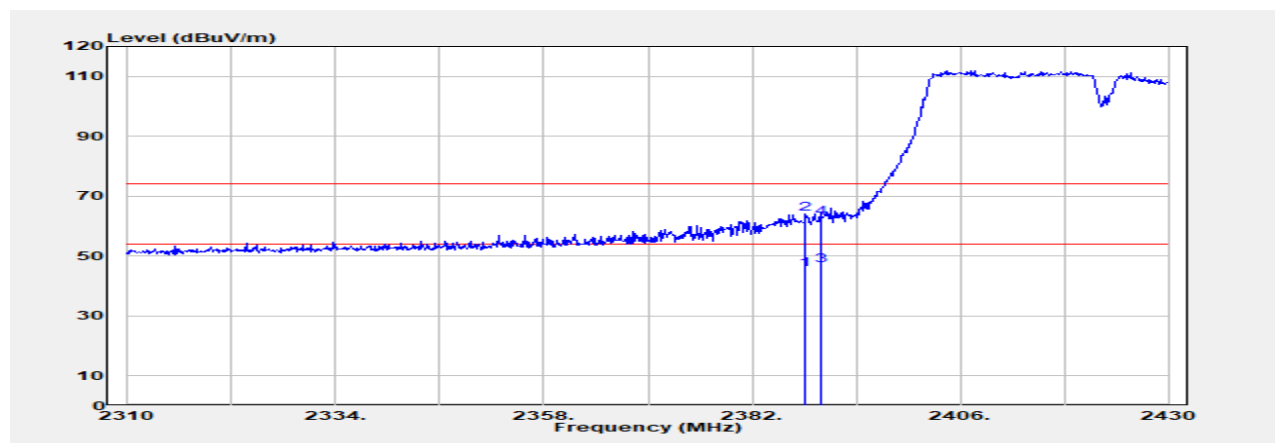
Test Site :SAC G

Test Date :2022-05-27

Temp./Humi. :26.0/60

Antenna Pol. :Horizontal

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2388.120	Average	49.35	-3.79	45.56	54.00	-8.44
2388.120	Peak	67.83	-3.79	64.03	74.00	-9.97
2390.000	Average	50.56	-3.80	46.75	54.00	-7.25
2390.000	Peak	66.66	-3.80	62.86	74.00	-11.14

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Report Number :E2/2022/30056

Operation Mode :802.11ax40

Test Frequency :2452 MHz

Test Mode :BE CH HIGH

EUT Pol :E1 Plane

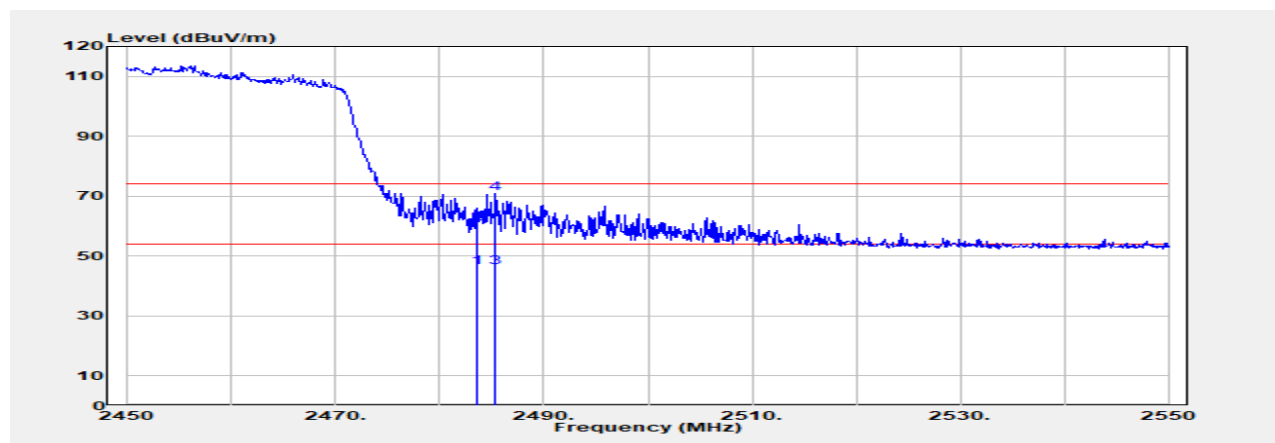
Test Site :SAC G

Test Date :2022-05-27

Temp./Humi. :26.0/60

Antenna Pol. :Vertical

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	50.09	-3.92	46.17	54.00	-7.83
2483.500	Peak	64.82	-3.92	60.91	74.00	-13.09
2485.300	Average	49.98	-3.91	46.07	54.00	-7.93
2485.300	Peak	74.79	-3.91	70.88	74.00	-3.12

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Report Number :E2/2022/30056

Operation Mode :802.11ax40

Test Frequency :2452 MHz

Test Mode :BE CH HIGH

EUT Pol :E1 Plane

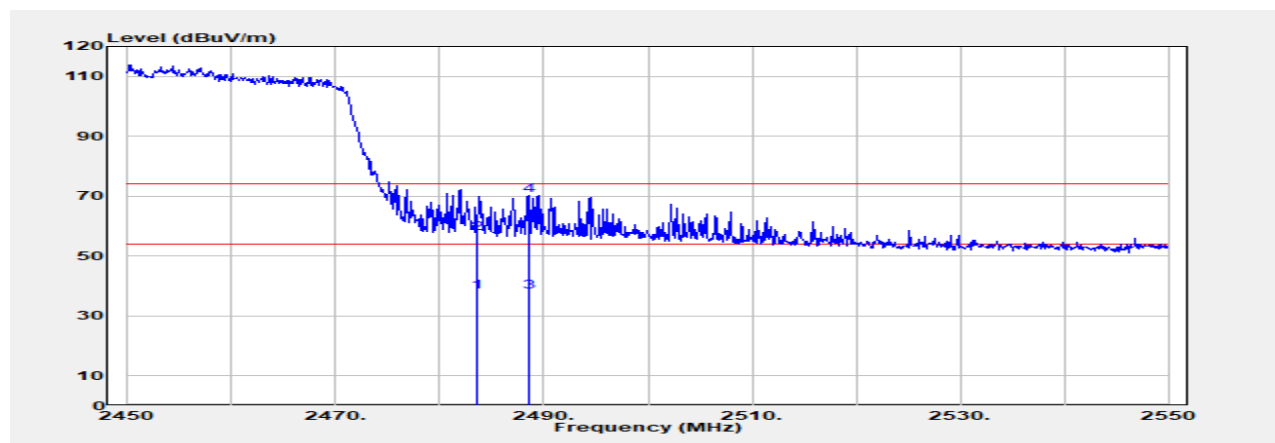
Test Site :SAC G

Test Date :2022-05-27

Temp./Humi. :26.0/60

Antenna Pol. :Horizontal

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	41.81	-3.92	37.89	54.00	-16.11
2483.500	Peak	61.57	-3.92	57.65	74.00	-16.35
2488.600	Average	42.09	-3.89	38.20	54.00	-15.80
2488.600	Peak	74.11	-3.89	70.22	74.00	-3.78

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11.6.2 Spurious Emission:

Report Number :E2/2022/30056

Test Site :SAC G

Operation Mode :802.11g

Test Date :2022-05-29

Test Frequency :2437 MHz

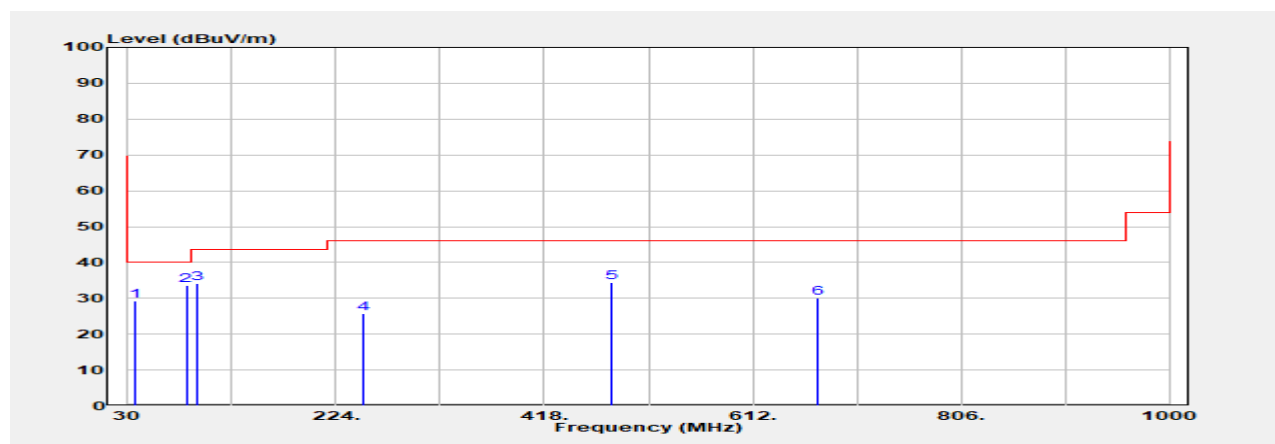
Temp./Humi. :25/70

Test Mode :TX CH MID

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
36.790	Peak	43.00	-13.81	29.19	40.00	-10.81
84.320	Peak	51.81	-18.10	33.71	40.00	-6.29
94.020	Peak	52.96	-18.70	34.26	43.50	-9.24
250.190	Peak	39.87	-14.24	25.62	46.00	-20.38
480.080	Peak	42.38	-8.06	34.32	46.00	-11.68
672.140	Peak	34.49	-4.51	29.98	46.00	-16.02

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Report Number :E2/2022/30056

Operation Mode :802.11g

Test Frequency :2437 MHz

Test Mode :TX CH MID

EUT Pol :E1 Plane

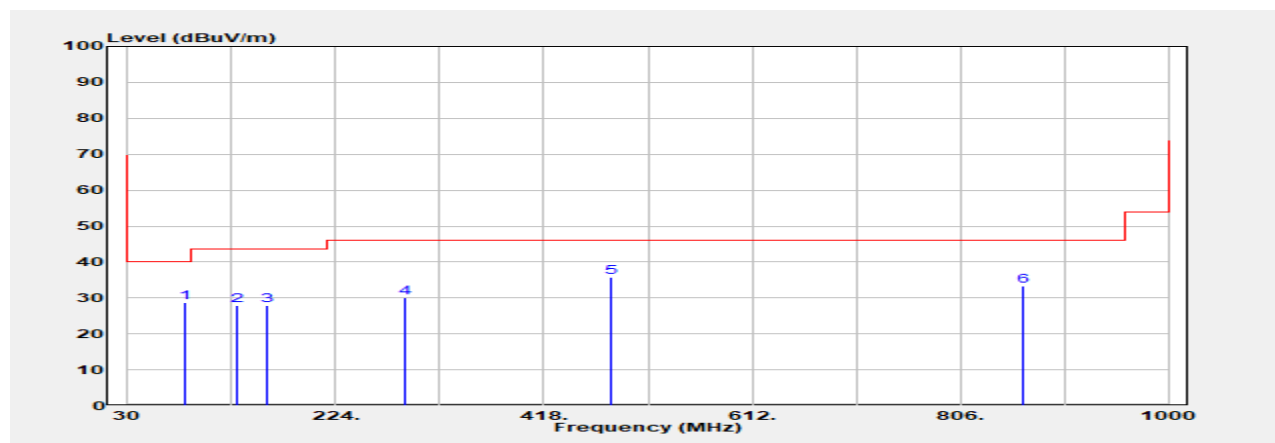
Test Site :SAC G

Test Date :2022-05-29

Temp./Humi. :25/70

Antenna Pol. :Horizontal

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
83.350	Peak	46.77	-17.92	28.84	40.00	-11.16
131.850	Peak	42.02	-14.11	27.91	43.50	-15.59
159.980	Peak	40.98	-13.08	27.90	43.50	-15.60
288.990	Peak	42.65	-12.68	29.97	46.00	-16.03
480.080	Peak	43.92	-8.06	35.86	46.00	-10.14
864.200	Peak	34.02	-0.56	33.46	46.00	-12.54

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Report Number :E2/2022/30056

Operation Mode :802.11ax40

Test Frequency :2437 MHz

Test Mode :TX CH MID

EUT Pol :E1 Plane

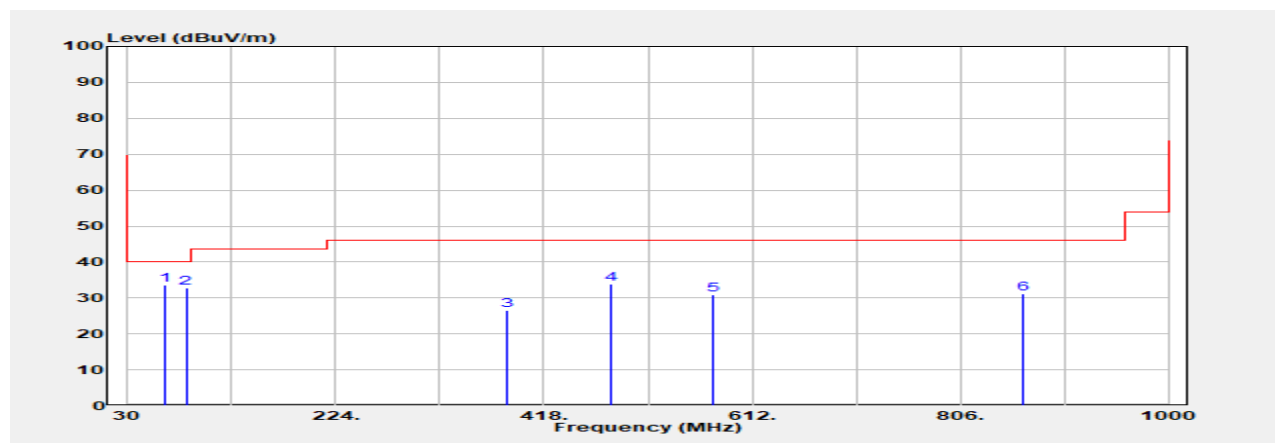
Test Site :SAC G

Test Date :2022-05-29

Temp./Humi. :25/70

Antenna Pol. :Vertical

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
64.920	Peak	47.84	-14.10	33.73	40.00	-6.27
84.320	Peak	50.97	-18.10	32.87	40.00	-7.13
384.050	Peak	36.91	-10.24	26.67	46.00	-19.33
480.080	Peak	41.96	-8.06	33.91	46.00	-12.09
576.110	Peak	36.84	-5.89	30.95	46.00	-15.05
864.200	Peak	31.75	-0.56	31.18	46.00	-14.82

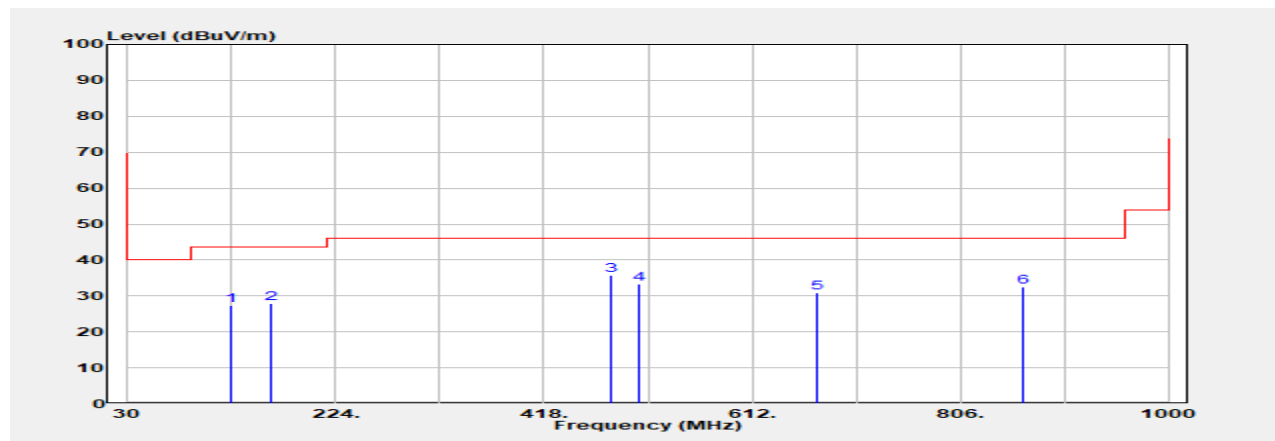
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Report Number :E2/2022/30056
 Operation Mode :802.11ax40
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :E1 Plane

Test Site :SAC G
 Test Date :2022-05-29
 Temp./Humi. :25/70
 Antenna Pol. :Horizontal
 Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
127.000	Peak	41.89	-14.54	27.35	43.50	-16.15
163.860	Peak	41.31	-13.32	27.99	43.50	-15.51
480.080	Peak	43.82	-8.06	35.76	46.00	-10.24
507.240	Peak	40.86	-7.53	33.34	46.00	-12.66
672.140	Peak	35.45	-4.51	30.93	46.00	-15.07
864.200	Peak	32.99	-0.56	32.43	46.00	-13.57

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Report Number :E2/2022/30056

Operation Mode :802.11b

Test Frequency :2412 MHz

Test Mode :TX CH LOW

EUT Pol :E1 Plane

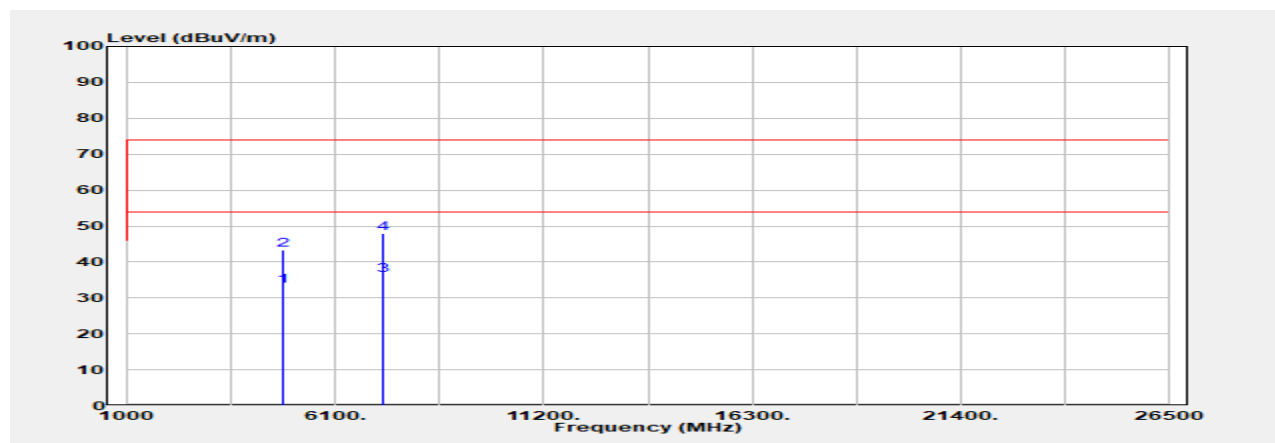
Test Site :SAC G

Test Date :2022-05-06

Temp./Humi. :23.4/64

Antenna Pol. :Vertical

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4824.000	Average	30.22	3.01	33.24	54.00	-20.76
4824.000	Peak	40.46	3.01	43.47	74.00	-30.53
7236.000	Average	28.81	7.53	36.34	54.00	-17.66
7236.000	Peak	40.40	7.53	47.93	74.00	-26.07

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Report Number :E2/2022/30056

Operation Mode :802.11b

Test Frequency :2412 MHz

Test Mode :TX CH LOW

EUT Pol :E1 Plane

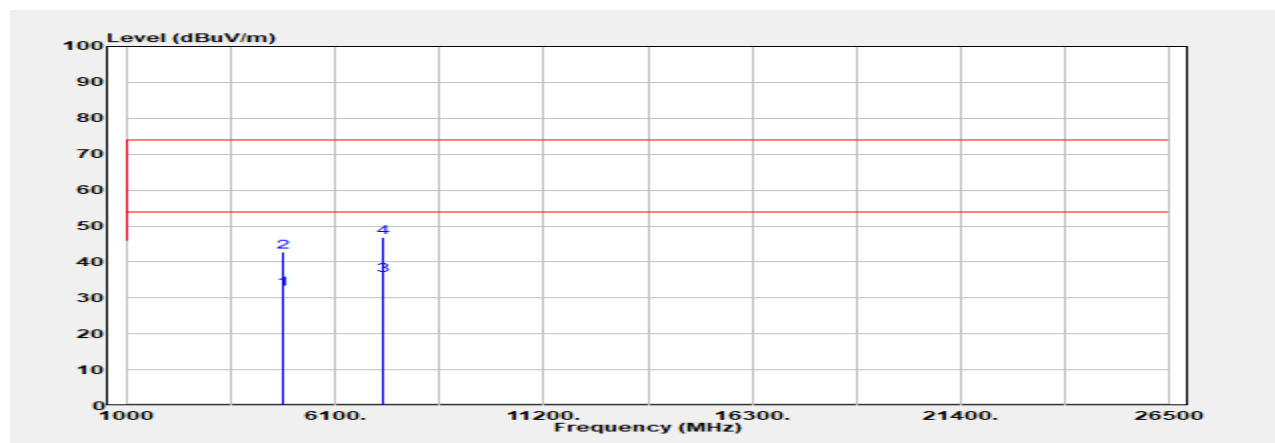
Test Site :SAC G

Test Date :2022-05-06

Temp./Humi. :23.4/64

Antenna Pol. :Horizontal

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4824.000	Average	29.53	3.01	32.54	54.00	-21.46
4824.000	Peak	39.87	3.01	42.88	74.00	-31.12
7236.000	Average	28.70	7.53	36.22	54.00	-17.78
7236.000	Peak	39.48	7.53	47.01	74.00	-26.99

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Report Number :E2/2022/30056

Operation Mode :802.11b

Test Frequency :2437 MHz

Test Mode :TX CH MID

EUT Pol :E1 Plane

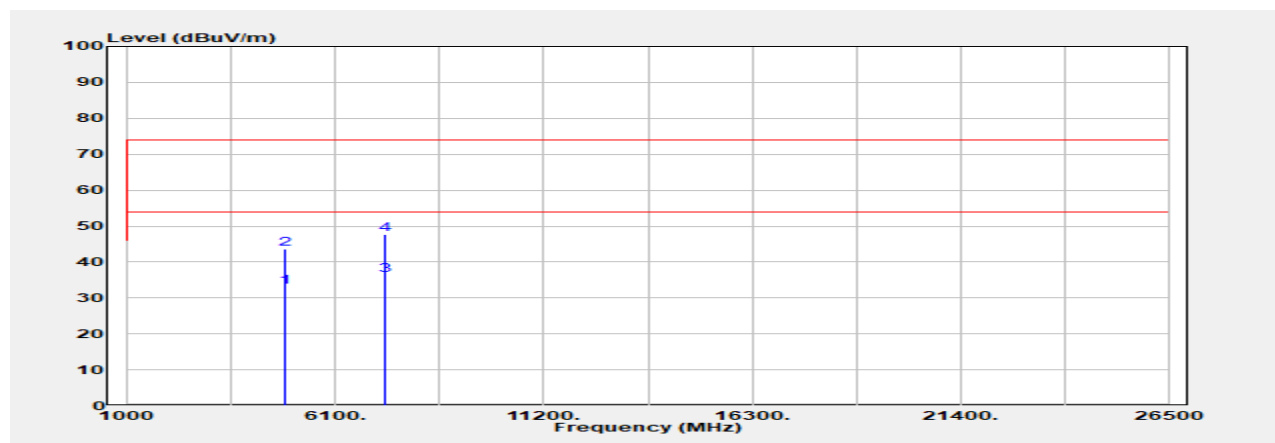
Test Site :SAC G

Test Date :2022-05-06

Temp./Humi. :23.4/64

Antenna Pol. :Vertical

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4874.000	Average	29.76	3.23	32.99	54.00	-21.01
4874.000	Peak	40.27	3.23	43.50	74.00	-30.50
7311.000	Average	28.68	7.68	36.35	54.00	-17.65
7311.000	Peak	39.92	7.68	47.60	74.00	-26.40

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Report Number :E2/2022/30056

Operation Mode :802.11b

Test Frequency :2437 MHz

Test Mode :TX CH MID

EUT Pol :E1 Plane

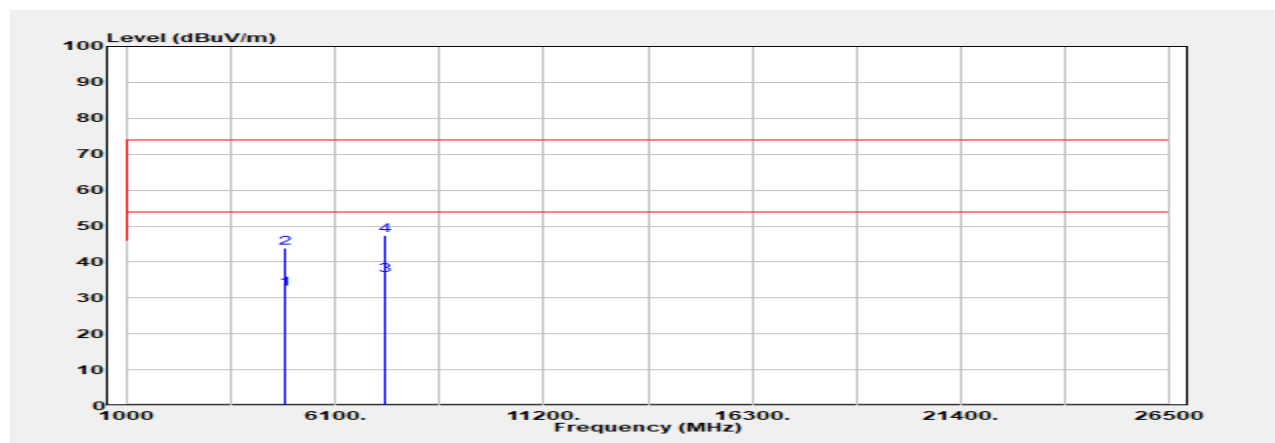
Test Site :SAC G

Test Date :2022-05-06

Temp./Humi. :23.4/64

Antenna Pol. :Horizontal

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4874.000	Average	29.37	3.23	32.60	54.00	-21.40
4874.000	Peak	40.54	3.23	43.77	74.00	-30.23
7311.000	Average	28.71	7.68	36.39	54.00	-17.61
7311.000	Peak	39.72	7.68	47.40	74.00	-26.60

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Report Number :E2/2022/30056

Operation Mode :802.11b

Test Frequency :2462 MHz

Test Mode :TX CH HIGH

EUT Pol :E1 Plane

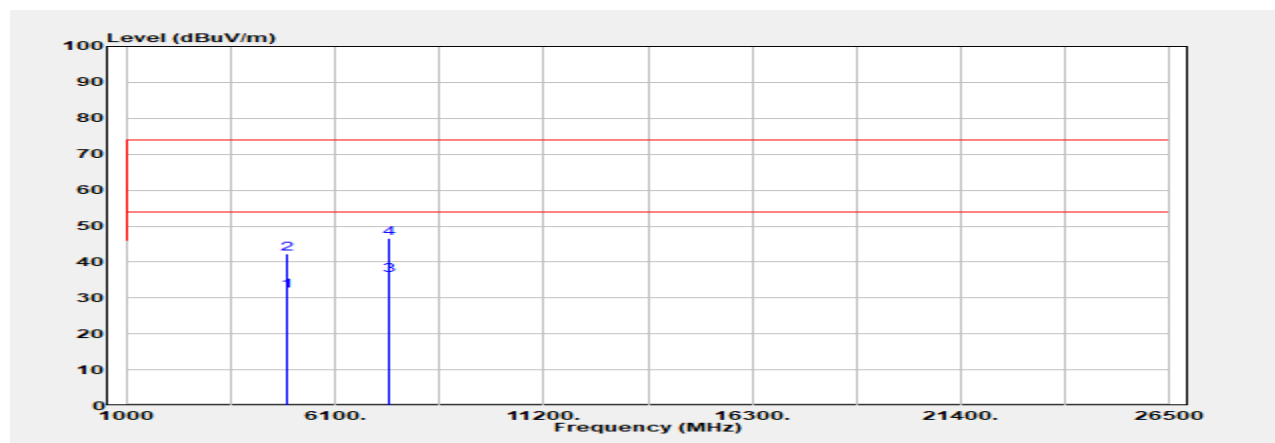
Test Site :SAC G

Test Date :2022-05-06

Temp./Humi. :23.4/64

Antenna Pol. :Vertical

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4924.000	Average	28.62	3.26	31.88	54.00	-22.12
4924.000	Peak	38.92	3.26	42.18	74.00	-31.82
7386.000	Average	28.64	7.72	36.36	54.00	-17.64
7386.000	Peak	38.78	7.72	46.50	74.00	-27.50

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Report Number :E2/2022/30056

Operation Mode :802.11b

Test Frequency :2462 MHz

Test Mode :TX CH HIGH

EUT Pol :E1 Plane

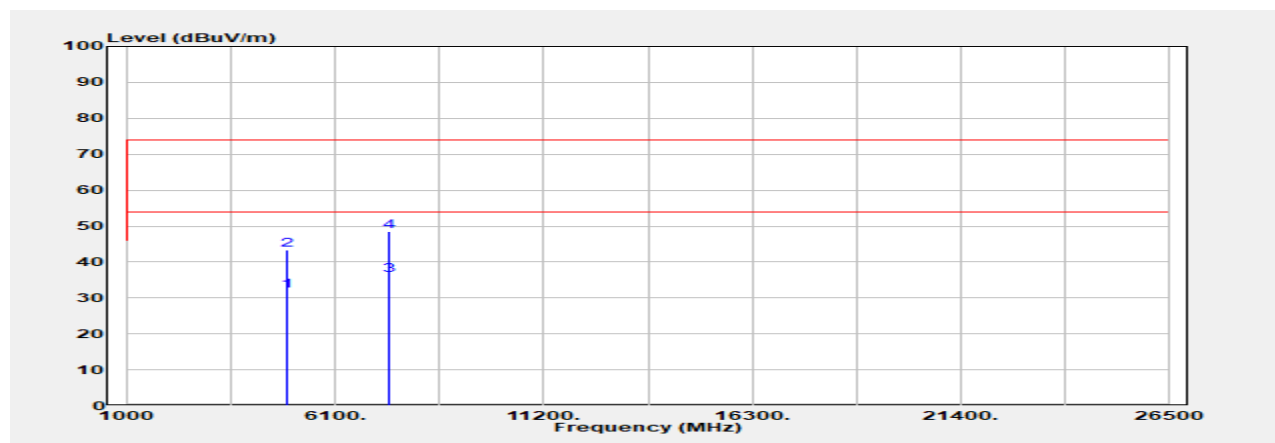
Test Site :SAC G

Test Date :2022-05-06

Temp./Humi. :23.4/64

Antenna Pol. :Horizontal

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4924.000	Average	28.69	3.26	31.95	54.00	-22.05
4924.000	Peak	40.15	3.26	43.41	74.00	-30.59
7386.000	Average	28.48	7.72	36.20	54.00	-17.80
7386.000	Peak	40.77	7.72	48.48	74.00	-25.52

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Report Number :E2/2022/30056

Test Site :SAC G

Operation Mode :802.11g

Test Date :2022-05-06

Test Frequency :2412 MHz

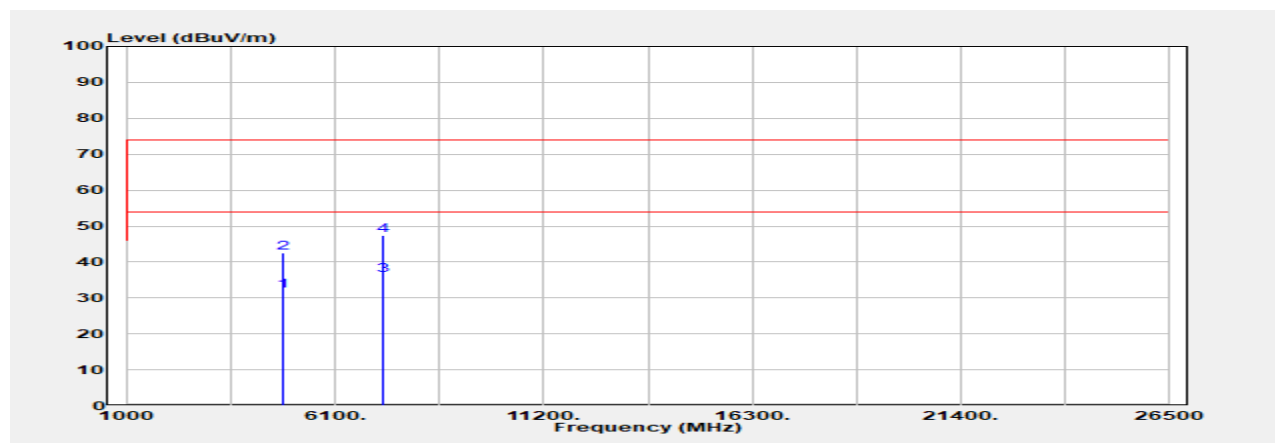
Temp./Humi. :23.4/64

Test Mode :TX CH LOW

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4824.000	Average	29.07	3.01	32.08	54.00	-21.92
4824.000	Peak	39.67	3.01	42.68	74.00	-31.32
7236.000	Average	28.89	7.53	36.41	54.00	-17.59
7236.000	Peak	39.89	7.53	47.41	74.00	-26.59

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Report Number :E2/2022/30056

Test Site :SAC G

Operation Mode :802.11g

Test Date :2022-05-06

Test Frequency :2412 MHz

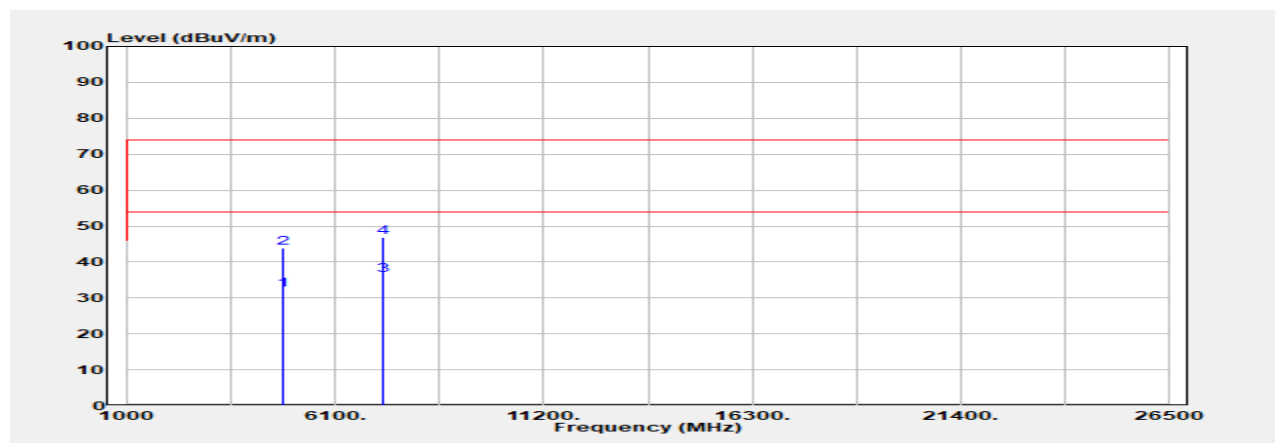
Temp./Humi. :23.4/64

Test Mode :TX CH LOW

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4824.000	Average	29.11	3.01	32.13	54.00	-21.87
4824.000	Peak	40.87	3.01	43.88	74.00	-30.12
7236.000	Average	28.85	7.53	36.38	54.00	-17.62
7236.000	Peak	39.30	7.53	46.83	74.00	-27.17

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Report Number :E2/2022/30056

Test Site :SAC G

Operation Mode :802.11g

Test Date :2022-05-06

Test Frequency :2437 MHz

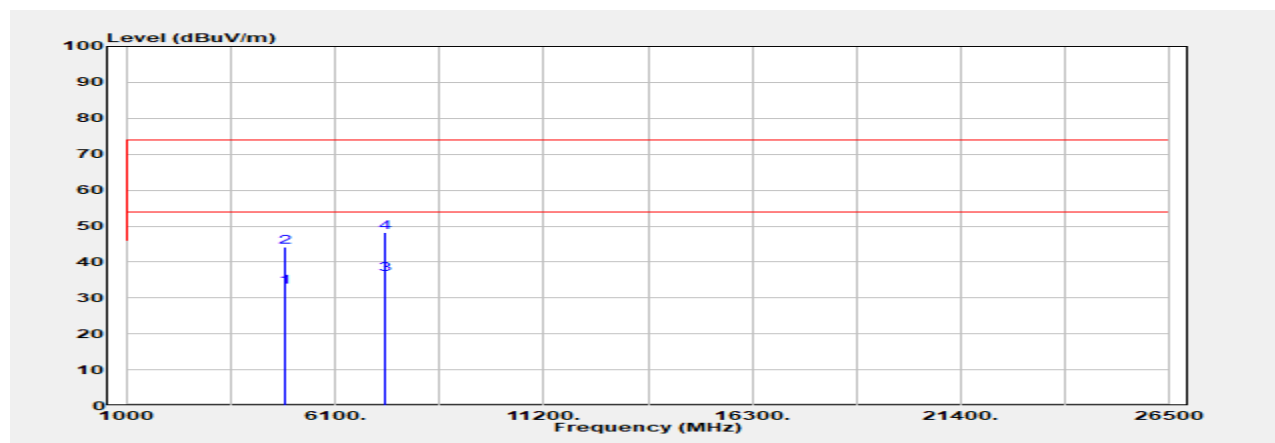
Temp./Humi. :23.4/64

Test Mode :TX CH MID

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4874.000	Average	29.82	3.23	33.05	54.00	-20.95
4874.000	Peak	41.04	3.23	44.27	74.00	-29.73
7311.000	Average	28.85	7.68	36.53	54.00	-17.47
7311.000	Peak	40.52	7.68	48.19	74.00	-25.81

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Report Number :E2/2022/30056

Test Site :SAC G

Operation Mode :802.11g

Test Date :2022-05-06

Test Frequency :2437 MHz

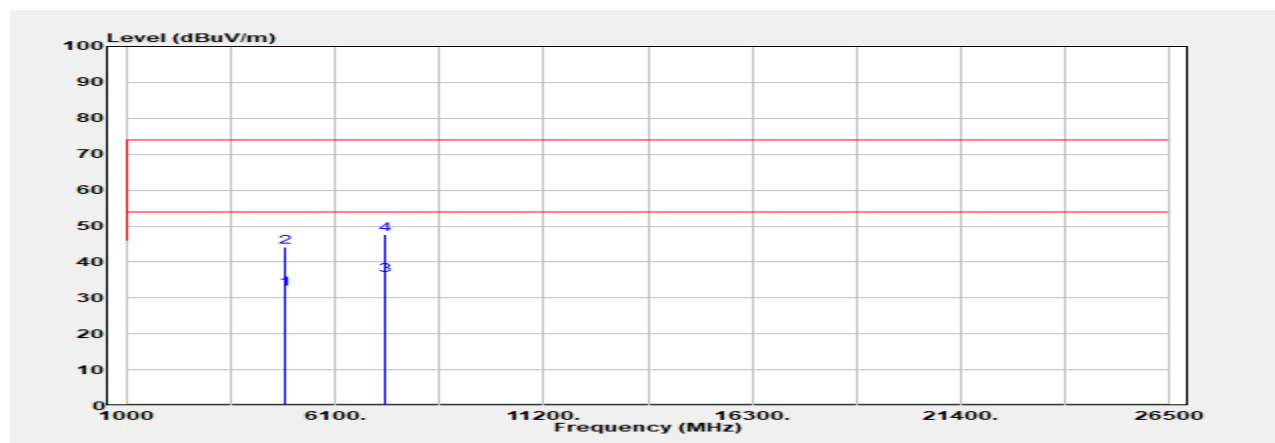
Temp./Humi. :23.4/64

Test Mode :TX CH MID

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4874.000	Average	29.17	3.23	32.40	54.00	-21.60
4874.000	Peak	40.84	3.23	44.07	74.00	-29.93
7311.000	Average	28.59	7.68	36.27	54.00	-17.73
7311.000	Peak	39.95	7.68	47.63	74.00	-26.37

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Report Number :E2/2022/30056

Test Site :SAC G

Operation Mode :802.11g

Test Date :2022-05-06

Test Frequency :2462 MHz

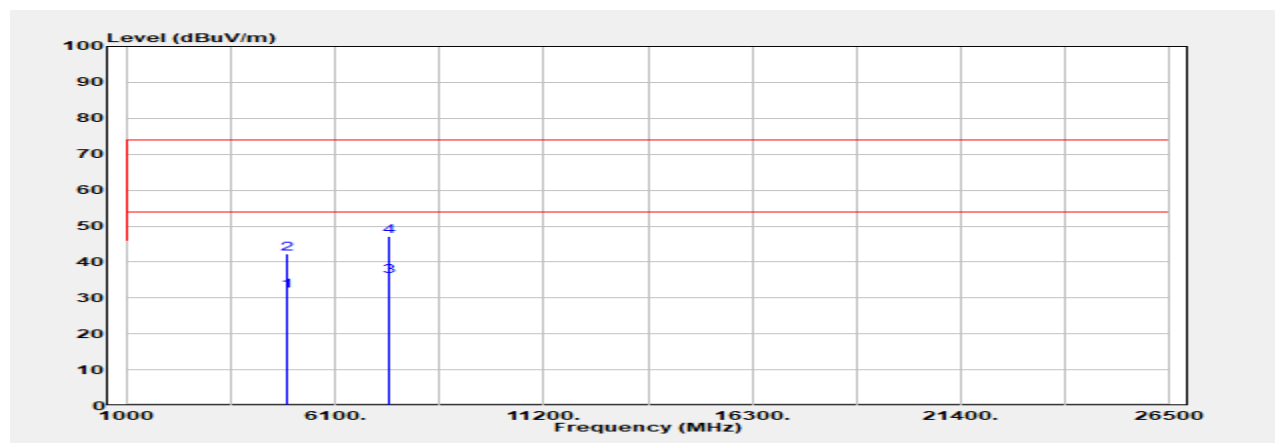
Temp./Humi. :23.4/64

Test Mode :TX CH HIGH

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4924.000	Average	28.69	3.26	31.95	54.00	-22.05
4924.000	Peak	38.88	3.26	42.14	74.00	-31.86
7386.000	Average	28.39	7.72	36.11	54.00	-17.89
7386.000	Peak	39.48	7.72	47.20	74.00	-26.80

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Report Number :E2/2022/30056

Test Site :SAC G

Operation Mode :802.11g

Test Date :2022-05-06

Test Frequency :2462 MHz

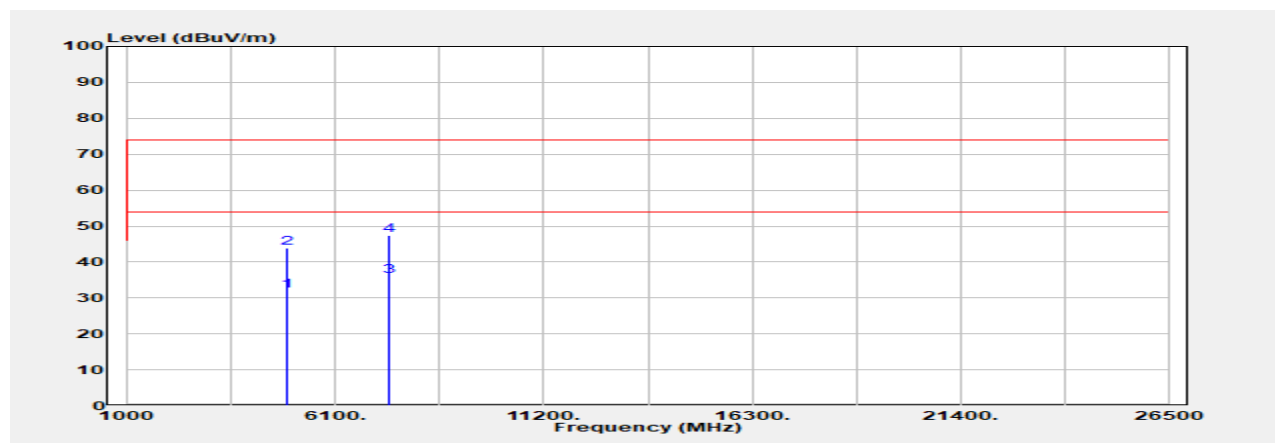
Temp./Humi. :23.4/64

Test Mode :TX CH HIGH

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4924.000	Average	28.81	3.26	32.07	54.00	-21.93
4924.000	Peak	40.65	3.26	43.91	74.00	-30.09
7386.000	Average	28.39	7.72	36.11	54.00	-17.89
7386.000	Peak	39.75	7.72	47.47	74.00	-26.53

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Report Number :E2/2022/30056

Test Site :SAC G

Operation Mode :802.11n20

Test Date :2022-05-19

Test Frequency :2412 MHz

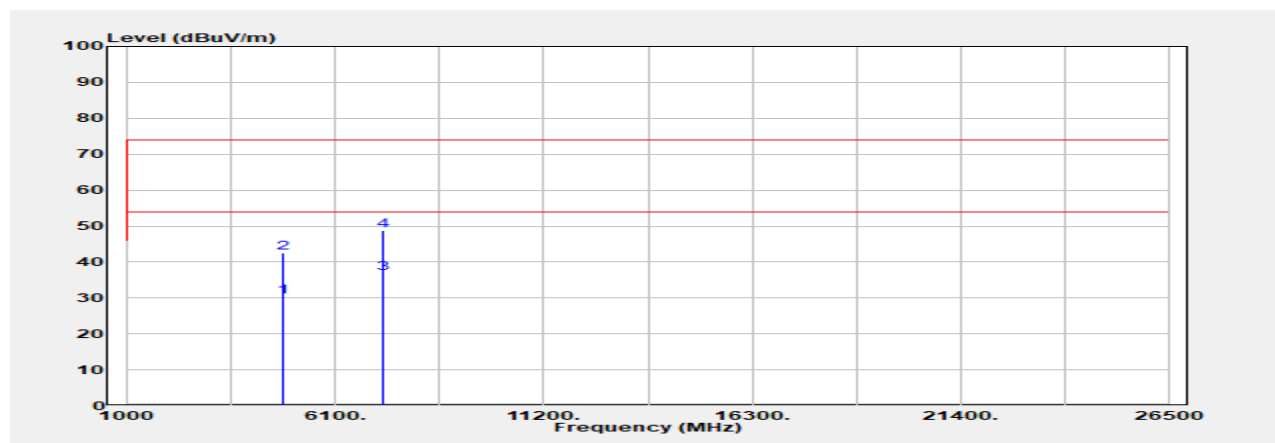
Temp./Humi. :26.8/68

Test Mode :TX CH LOW

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4824.000	Average	27.32	3.01	30.34	54.00	-23.66
4824.000	Peak	39.54	3.01	42.56	74.00	-31.44
7236.000	Average	29.22	7.53	36.75	54.00	-17.25
7236.000	Peak	41.26	7.53	48.78	74.00	-25.22

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Report Number :E2/2022/30056

Operation Mode :802.11n20

Test Frequency :2412 MHz

Test Mode :TX CH LOW

EUT Pol :E1 Plane

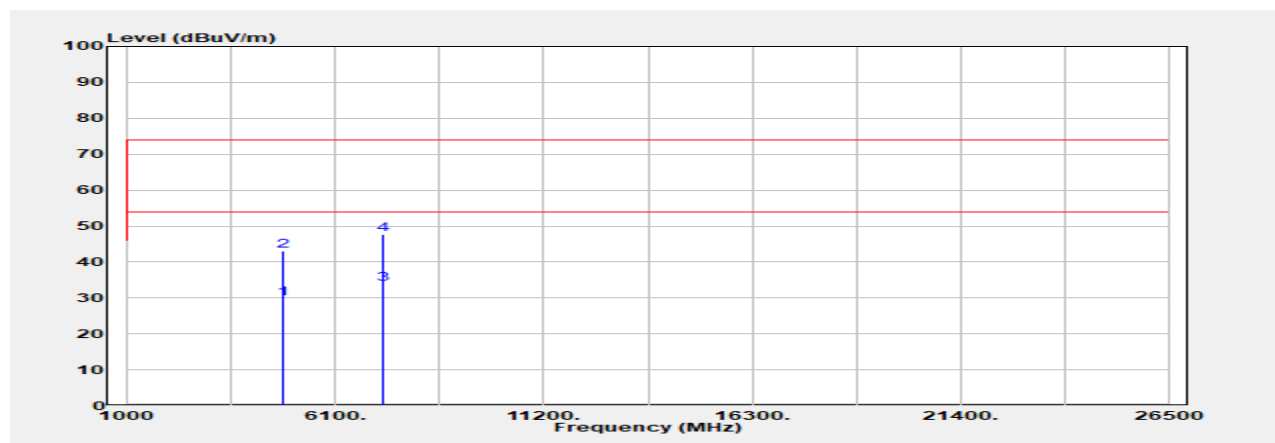
Test Site :SAC G

Test Date :2022-05-19

Temp./Humi. :26.8/68

Antenna Pol. :Horizontal

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4824.000	Average	26.84	3.01	29.85	54.00	-24.15
4824.000	Peak	40.11	3.01	43.12	74.00	-30.88
7236.000	Average	26.43	7.53	33.96	54.00	-20.04
7236.000	Peak	40.15	7.53	47.68	74.00	-26.32

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Report Number :E2/2022/30056

Operation Mode :802.11n20

Test Frequency :2437 MHz

Test Mode :TX CH MID

EUT Pol :E1 Plane

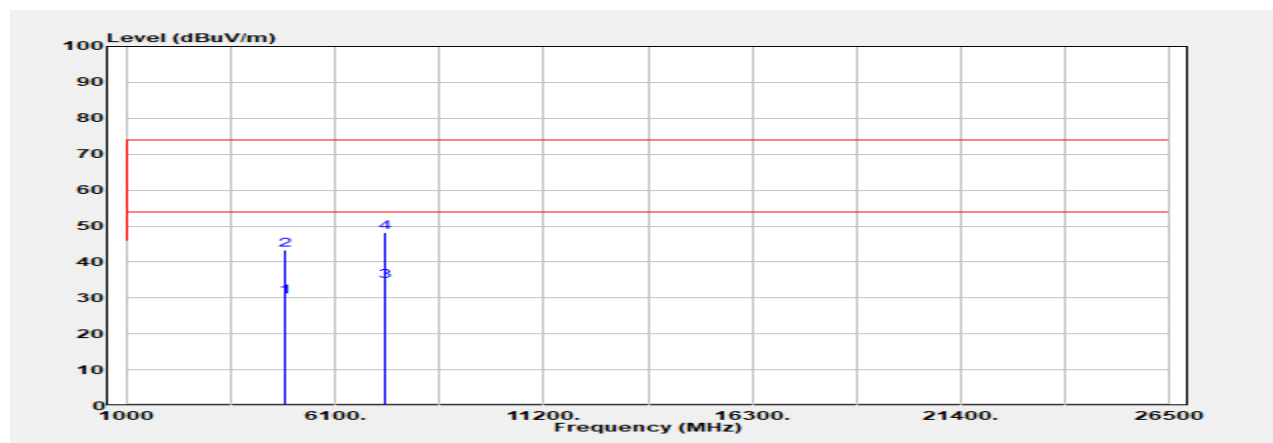
Test Site :SAC G

Test Date :2022-05-19

Temp./Humi. :26.8/68

Antenna Pol. :Vertical

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4874.000	Average	27.01	3.23	30.24	54.00	-23.76
4874.000	Peak	40.18	3.23	43.41	74.00	-30.59
7311.000	Average	27.13	7.68	34.81	54.00	-19.19
7311.000	Peak	40.51	7.68	48.19	74.00	-25.81

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Report Number :E2/2022/30056

Operation Mode :802.11n20

Test Frequency :2437 MHz

Test Mode :TX CH MID

EUT Pol :E1 Plane

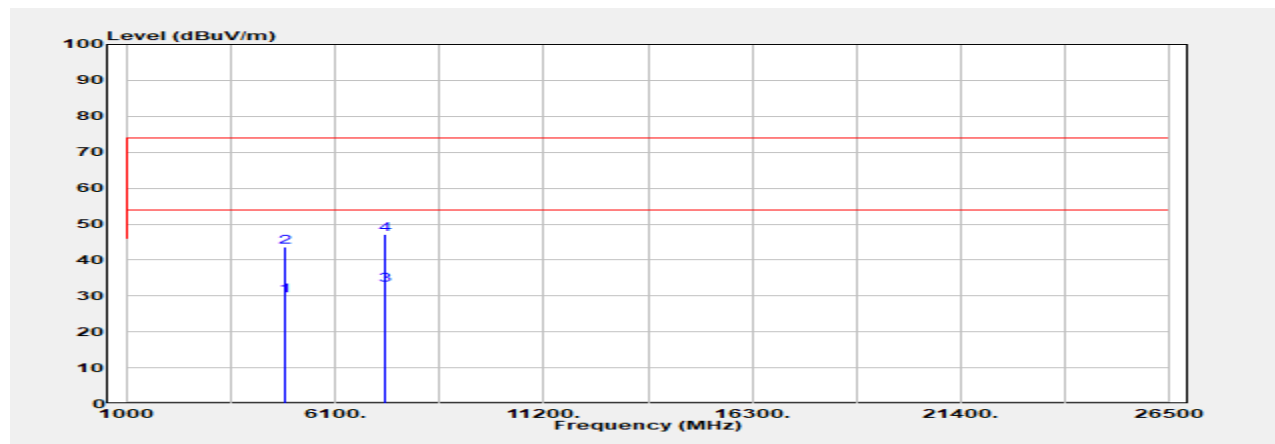
Test Site :SAC G

Test Date :2022-05-19

Temp./Humi. :26.8/68

Antenna Pol. :Horizontal

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4874.000	Average	26.85	3.23	30.08	54.00	-23.92
4874.000	Peak	40.52	3.23	43.74	74.00	-30.26
7311.000	Average	25.33	7.68	33.01	54.00	-20.99
7311.000	Peak	39.43	7.68	47.11	74.00	-26.89

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Report Number :E2/2022/30056

Operation Mode :802.11n20

Test Frequency :2462 MHz

Test Mode :TX CH HIGH

EUT Pol :E1 Plane

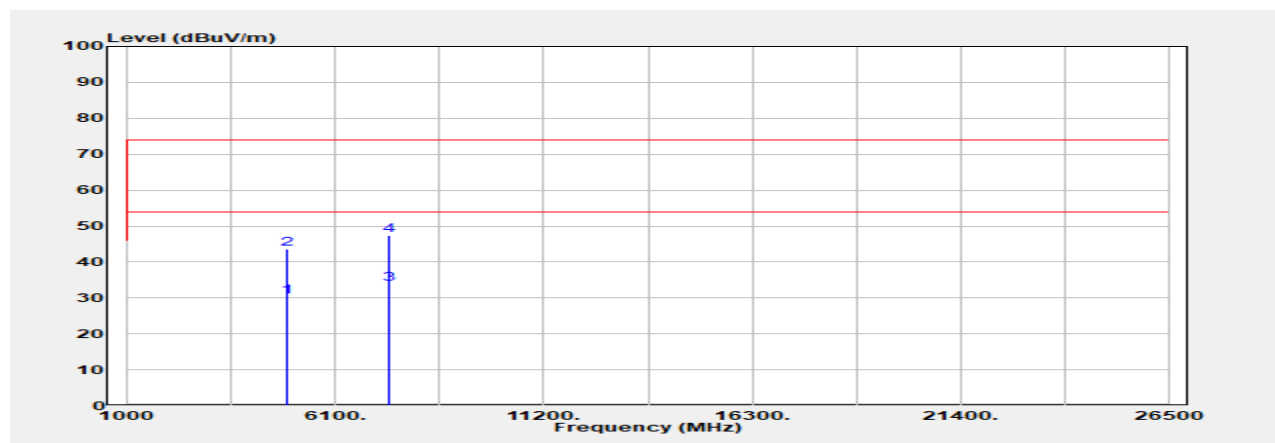
Test Site :SAC G

Test Date :2022-05-19

Temp./Humi. :26.8/68

Antenna Pol. :Vertical

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4924.000	Average	27.04	3.26	30.30	54.00	-23.70
4924.000	Peak	40.44	3.26	43.70	74.00	-30.30
7386.000	Average	26.08	7.72	33.80	54.00	-20.20
7386.000	Peak	39.83	7.72	47.54	74.00	-26.46

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Report Number :E2/2022/30056

Operation Mode :802.11n20

Test Frequency :2462 MHz

Test Mode :TX CH HIGH

EUT Pol :E1 Plane

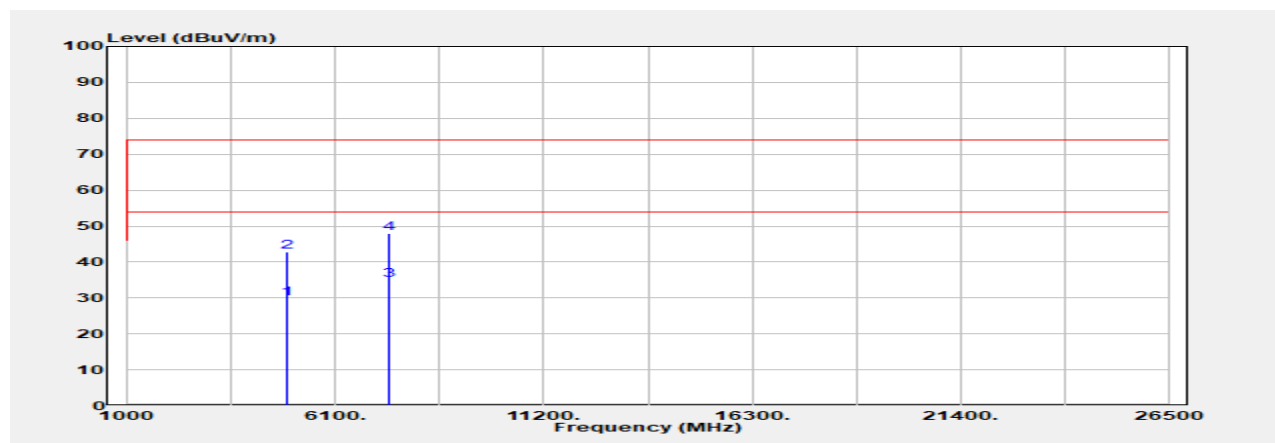
Test Site :SAC G

Test Date :2022-05-19

Temp./Humi. :26.8/68

Antenna Pol. :Horizontal

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4924.000	Average	26.65	3.26	29.91	54.00	-24.09
4924.000	Peak	39.61	3.26	42.87	74.00	-31.13
7386.000	Average	27.13	7.72	34.85	54.00	-19.15
7386.000	Peak	40.27	7.72	47.98	74.00	-26.02

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Report Number :E2/2022/30056

Operation Mode :802.11n40

Test Frequency :2422 MHz

Test Mode :TX CH LOW

EUT Pol :E1 Plane

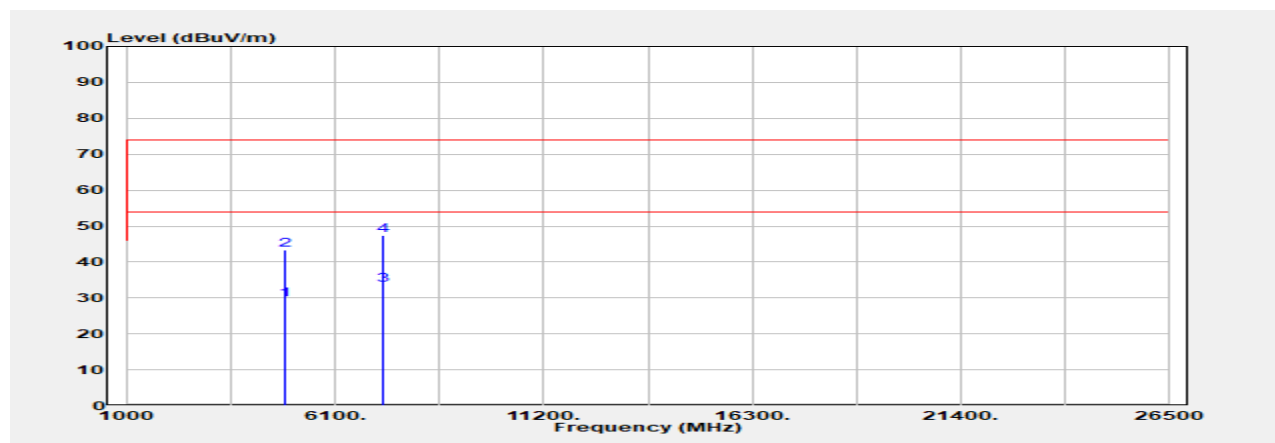
Test Site :SAC G

Test Date :2022-05-19

Temp./Humi. :26.8/68

Antenna Pol. :Vertical

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4844.000	Average	26.61	2.86	29.47	54.00	-24.53
4844.000	Peak	40.43	2.86	43.29	74.00	-30.71
7266.000	Average	25.13	8.40	33.53	54.00	-20.47
7266.000	Peak	39.14	8.40	47.54	74.00	-26.46

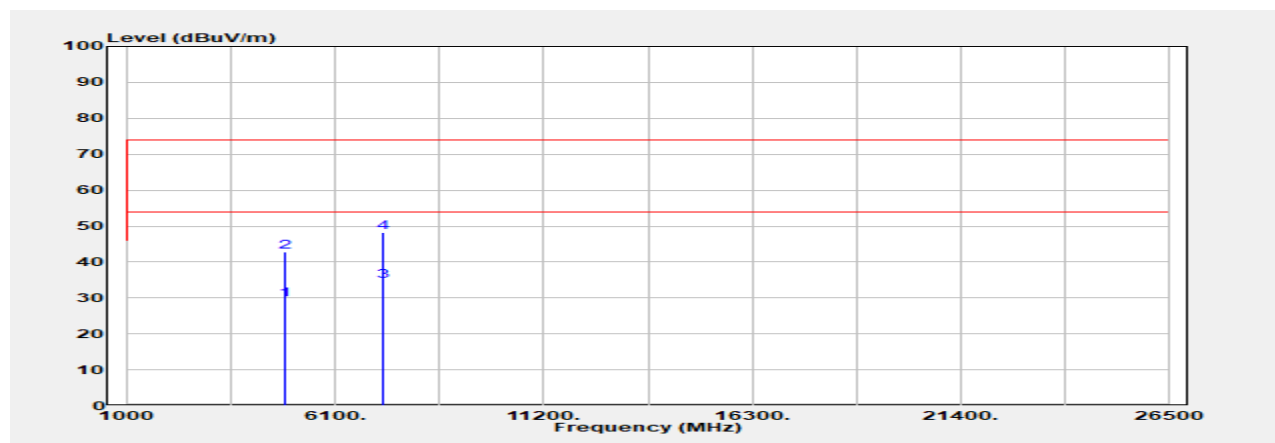
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Report Number :E2/2022/30056
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :TX CH LOW
 EUT Pol :E1 Plane

Test Site :SAC G
 Test Date :2022-05-19
 Temp./Humi. :26.8/68
 Antenna Pol. :Horizontal
 Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4844.000	Average	26.65	2.86	29.51	54.00	-24.49
4844.000	Peak	39.93	2.86	42.79	74.00	-31.21
7266.000	Average	26.33	8.40	34.73	54.00	-19.27
7266.000	Peak	39.81	8.40	48.21	74.00	-25.79

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Report Number :E2/2022/30056

Operation Mode :802.11n40

Test Frequency :2437 MHz

Test Mode :TX CH MID

EUT Pol :E1 Plane

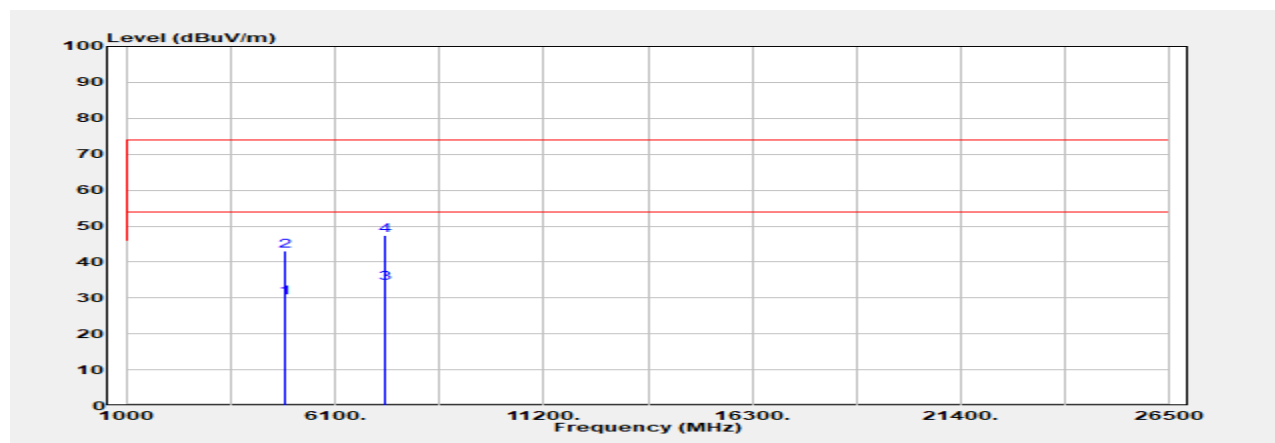
Test Site :SAC G

Test Date :2022-05-19

Temp./Humi. :26.8/68

Antenna Pol. :Vertical

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4874.000	Average	26.74	3.23	29.97	54.00	-24.03
4874.000	Peak	39.95	3.23	43.18	74.00	-30.82
7311.000	Average	26.45	7.68	34.13	54.00	-19.87
7311.000	Peak	39.73	7.68	47.41	74.00	-26.59

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Report Number :E2/2022/30056

Operation Mode :802.11n40

Test Frequency :2437 MHz

Test Mode :TX CH MID

EUT Pol :E1 Plane

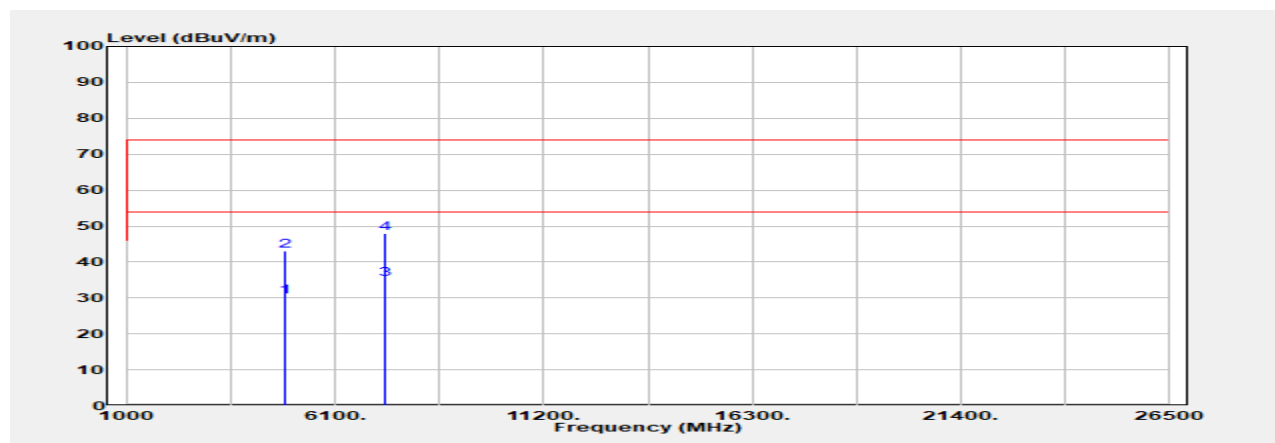
Test Site :SAC G

Test Date :2022-05-19

Temp./Humi. :26.8/68

Antenna Pol. :Horizontal

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4874.000	Average	27.09	3.23	30.31	54.00	-23.69
4874.000	Peak	39.84	3.23	43.07	74.00	-30.93
7311.000	Average	27.68	7.68	35.36	54.00	-18.64
7311.000	Peak	40.16	7.68	47.84	74.00	-26.16

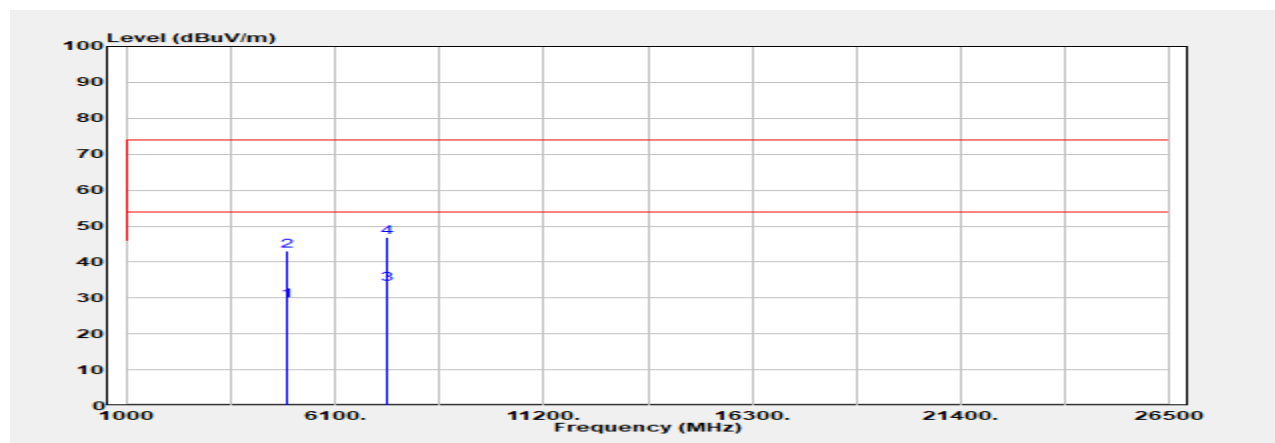
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Report Number :E2/2022/30056
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E1 Plane

Test Site :SAC G
 Test Date :2022-05-19
 Temp./Humi. :26.8/68
 Antenna Pol. :Vertical
 Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4904.000	Average	26.28	3.10	29.38	54.00	-24.62
4904.000	Peak	39.89	3.10	42.99	74.00	-31.01
7356.000	Average	26.12	7.88	34.00	54.00	-20.00
7356.000	Peak	39.12	7.88	47.00	74.00	-27.00

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Report Number :E2/2022/30056

Operation Mode :802.11n40

Test Frequency :2452 MHz

Test Mode :TX CH HIGH

EUT Pol :E1 Plane

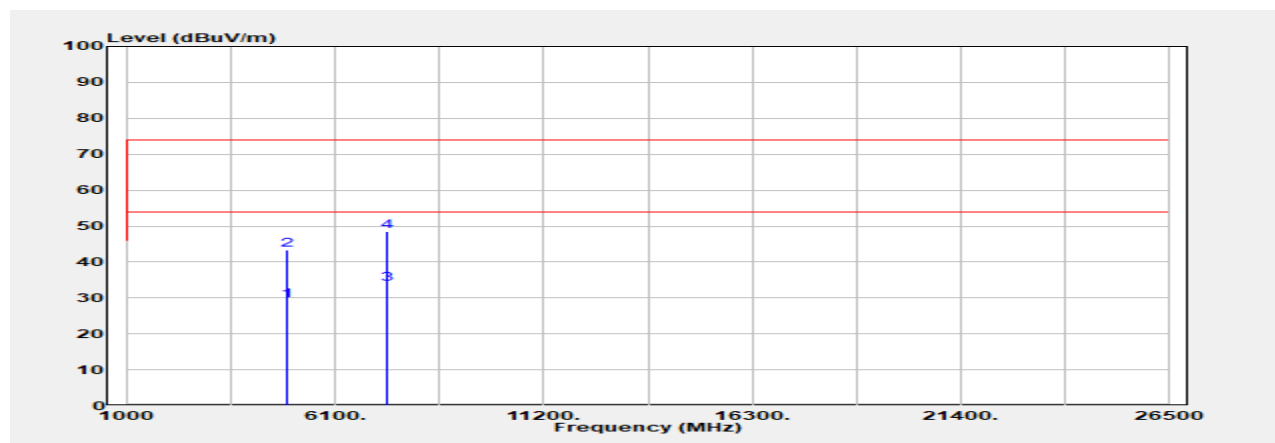
Test Site :SAC G

Test Date :2022-05-19

Temp./Humi. :26.8/68

Antenna Pol. :Horizontal

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4904.000	Average	26.18	3.10	29.28	54.00	-24.72
4904.000	Peak	40.28	3.10	43.38	74.00	-30.62
7356.000	Average	26.13	7.88	34.01	54.00	-19.99
7356.000	Peak	40.66	7.88	48.53	74.00	-25.47

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Report Number :E2/2022/30056

Operation Mode :802.11ax20

Test Frequency :2412 MHz

Test Mode :TX CH LOW

EUT Pol :E1 Plane

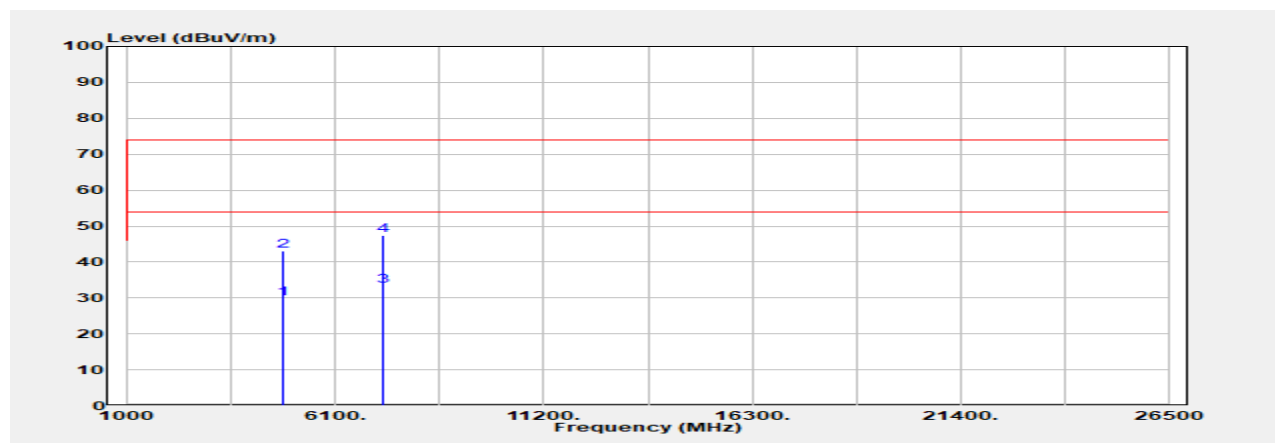
Test Site :SAC G

Test Date :2022-05-19

Temp./Humi. :26.8/68

Antenna Pol. :Vertical

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4824.000	Average	26.74	3.01	29.76	54.00	-24.24
4824.000	Peak	40.11	3.01	43.12	74.00	-30.88
7236.000	Average	25.75	7.53	33.28	54.00	-20.72
7236.000	Peak	39.81	7.53	47.34	74.00	-26.66

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Report Number :E2/2022/30056

Test Site :SAC G

Operation Mode :802.11ax20

Test Date :2022-05-19

Test Frequency :2412 MHz

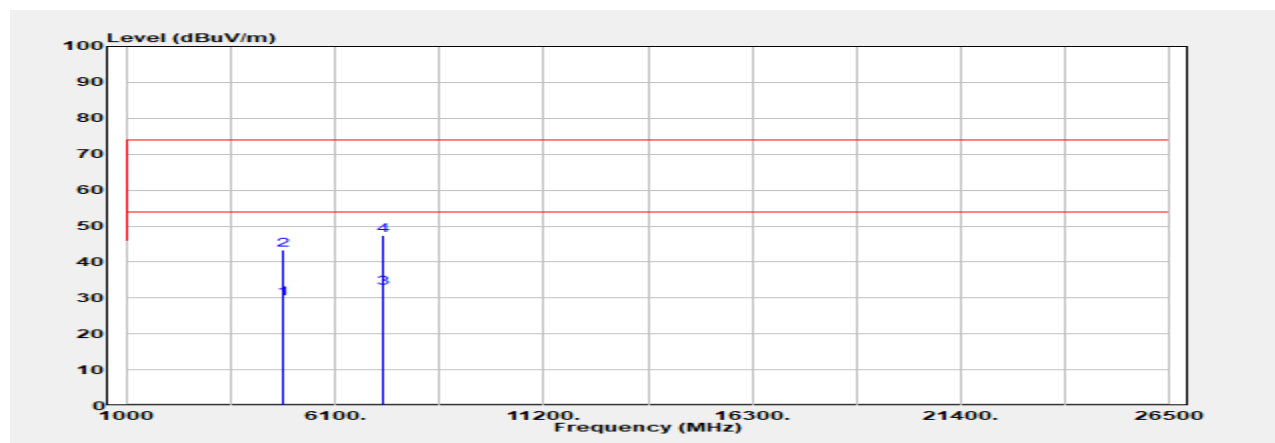
Temp./Humi. :26.8/68

Test Mode :TX CH LOW

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4824.000	Average	26.67	3.01	29.68	54.00	-24.32
4824.000	Peak	40.30	3.01	43.31	74.00	-30.69
7236.000	Average	25.13	7.53	32.66	54.00	-21.34
7236.000	Peak	39.84	7.53	47.36	74.00	-26.64

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Report Number :E2/2022/30056

Operation Mode :802.11ax20

Test Frequency :2437 MHz

Test Mode :TX CH MID

EUT Pol :E1 Plane

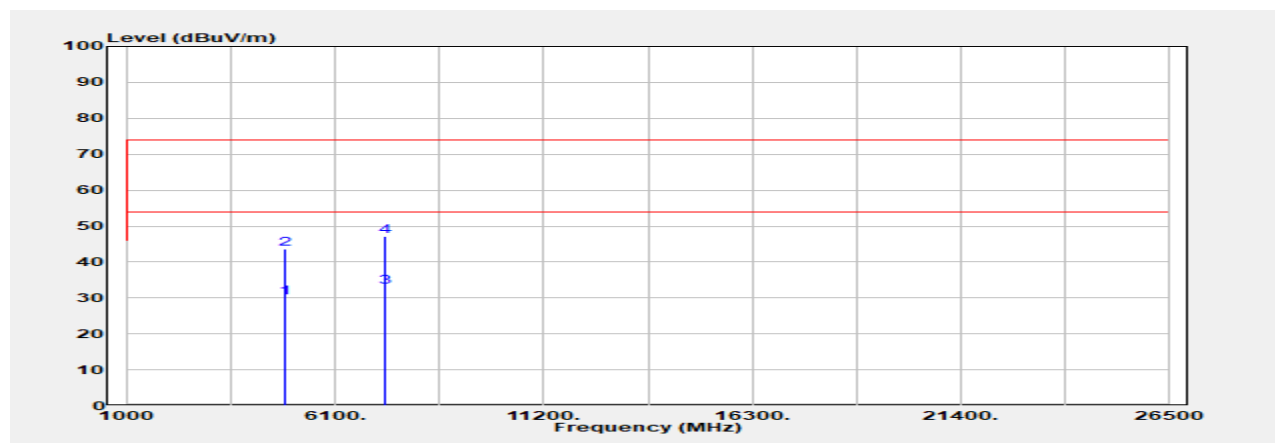
Test Site :SAC G

Test Date :2022-05-19

Temp./Humi. :26.8/68

Antenna Pol. :Vertical

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4874.000	Average	26.86	3.23	30.09	54.00	-23.91
4874.000	Peak	40.44	3.23	43.67	74.00	-30.33
7311.000	Average	25.43	7.68	33.11	54.00	-20.89
7311.000	Peak	39.42	7.68	47.10	74.00	-26.90

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Report Number :E2/2022/30056

Operation Mode :802.11ax20

Test Frequency :2437 MHz

Test Mode :TX CH MID

EUT Pol :E1 Plane

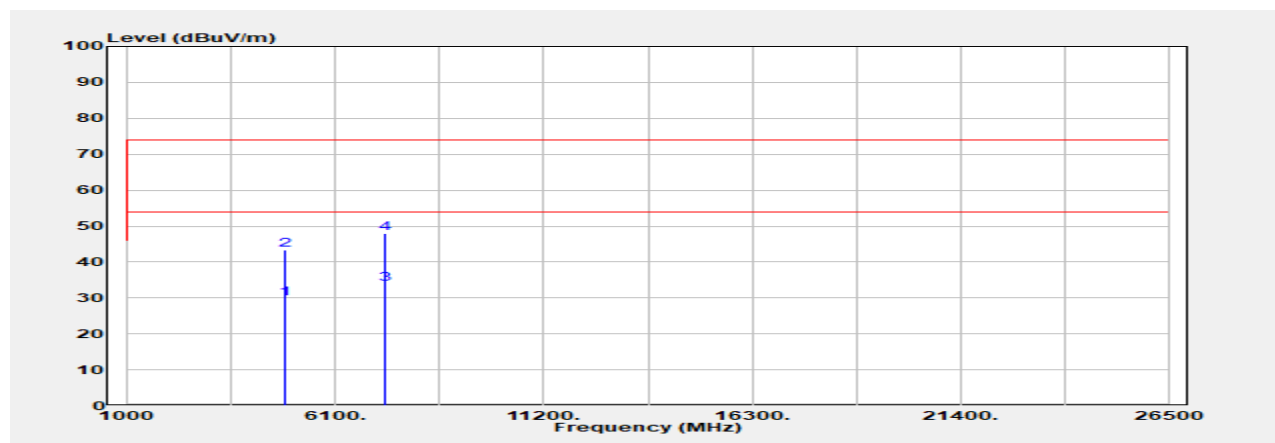
Test Site :SAC G

Test Date :2022-05-19

Temp./Humi. :26.8/68

Antenna Pol. :Horizontal

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4874.000	Average	26.64	3.23	29.87	54.00	-24.13
4874.000	Peak	40.19	3.23	43.42	74.00	-30.58
7311.000	Average	26.33	7.68	34.01	54.00	-19.99
7311.000	Peak	40.23	7.68	47.91	74.00	-26.09

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Report Number :E2/2022/30056

Operation Mode :802.11ax20

Test Frequency :2462 MHz

Test Mode :TX CH HIGH

EUT Pol :E1 Plane

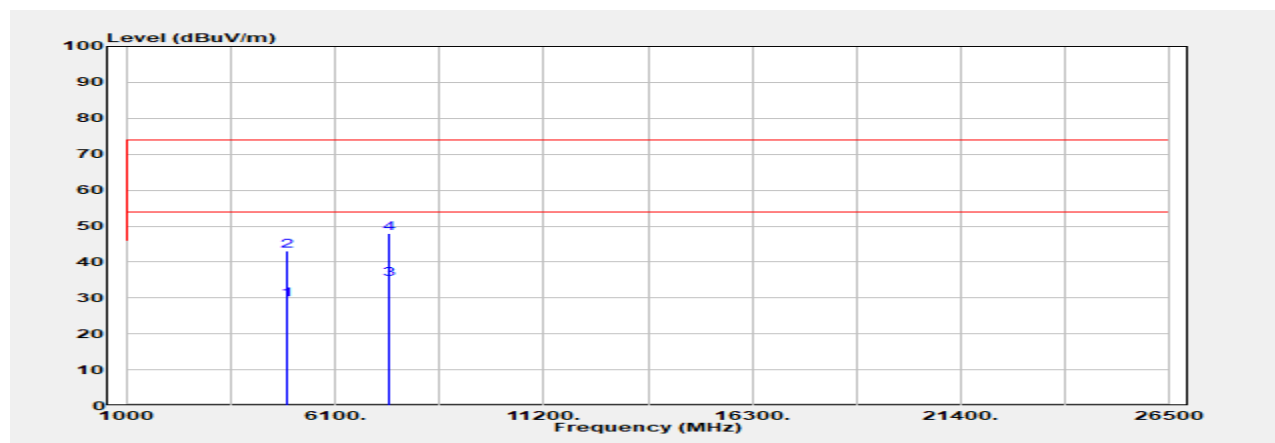
Test Site :SAC G

Test Date :2022-05-19

Temp./Humi. :26.8/68

Antenna Pol. :Vertical

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4924.000	Average	26.34	3.26	29.60	54.00	-24.40
4924.000	Peak	39.92	3.26	43.18	74.00	-30.82
7386.000	Average	27.43	7.72	35.15	54.00	-18.85
7386.000	Peak	40.24	7.72	47.96	74.00	-26.04

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Report Number :E2/2022/30056

Test Site :SAC G

Operation Mode :802.11ax20

Test Date :2022-05-19

Test Frequency :2462 MHz

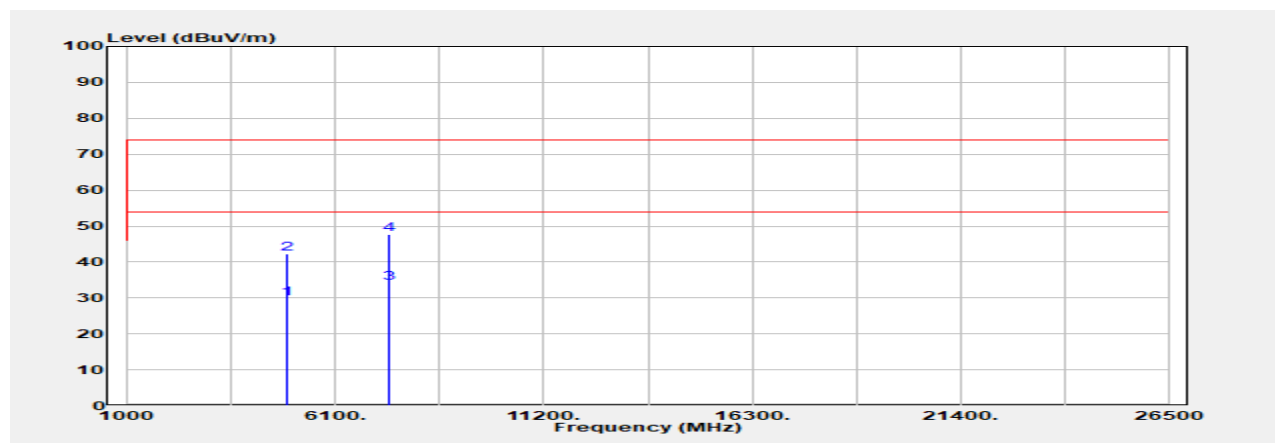
Temp./Humi. :26.8/68

Test Mode :TX CH HIGH

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4924.000	Average	26.43	3.26	29.69	54.00	-24.31
4924.000	Peak	39.10	3.26	42.36	74.00	-31.64
7386.000	Average	26.33	7.72	34.05	54.00	-19.95
7386.000	Peak	39.94	7.72	47.65	74.00	-26.35

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Report Number :E2/2022/30056

Operation Mode :802.11ax40

Test Frequency :2422 MHz

Test Mode :TX CH LOW

EUT Pol :E1 Plane

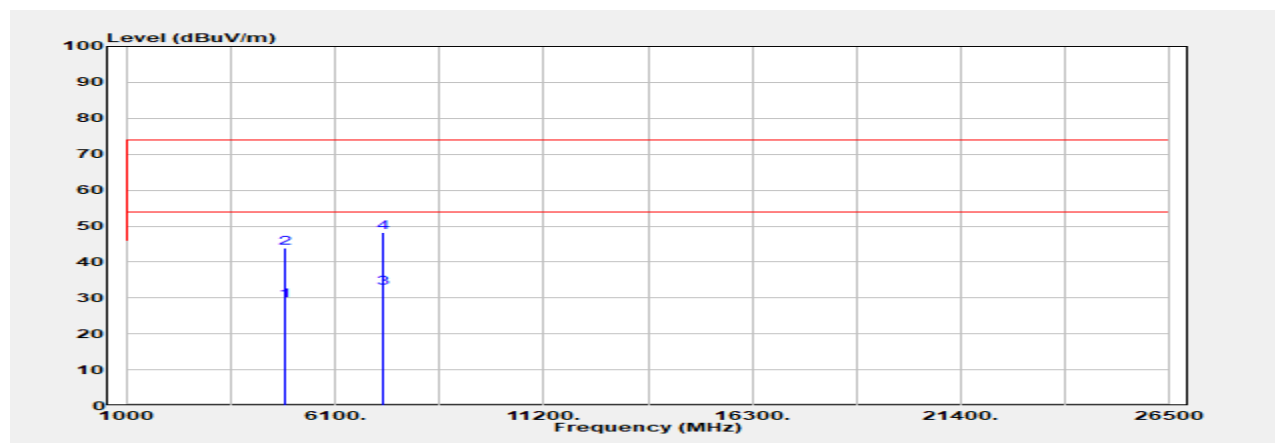
Test Site :SAC G

Test Date :2022-05-19

Temp./Humi. :26.8/68

Antenna Pol. :Vertical

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4844.000	Average	26.43	2.86	29.29	54.00	-24.71
4844.000	Peak	41.08	2.86	43.94	74.00	-30.06
7266.000	Average	24.33	8.40	32.73	54.00	-21.27
7266.000	Peak	39.73	8.40	48.13	74.00	-25.87

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Report Number :E2/2022/30056

Operation Mode :802.11ax40

Test Frequency :2422 MHz

Test Mode :TX CH LOW

EUT Pol :E1 Plane

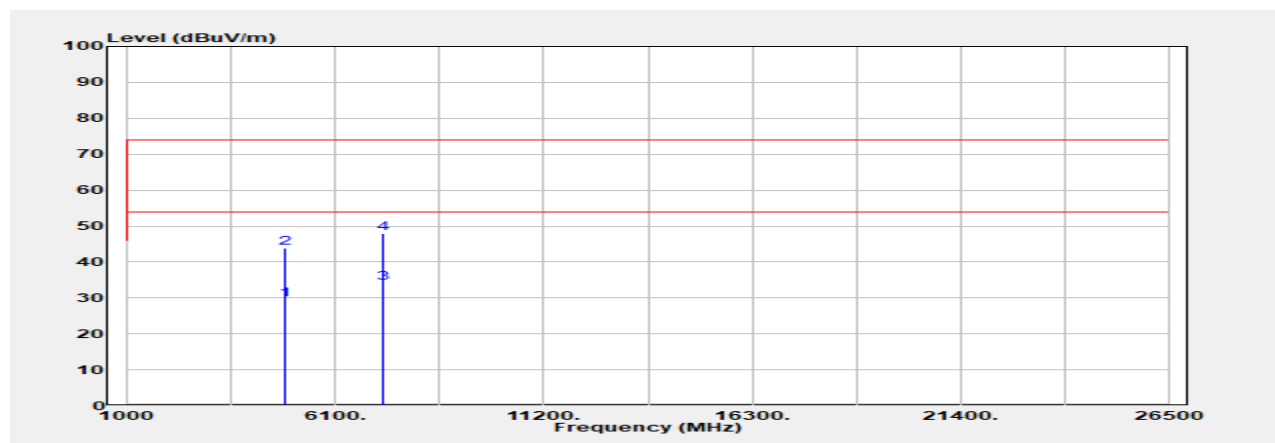
Test Site :SAC G

Test Date :2022-05-19

Temp./Humi. :26.8/68

Antenna Pol. :Horizontal

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4844.000	Average	26.64	2.86	29.50	54.00	-24.50
4844.000	Peak	40.96	2.86	43.82	74.00	-30.18
7266.000	Average	25.86	8.40	34.26	54.00	-19.74
7266.000	Peak	39.46	8.40	47.86	74.00	-26.14

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Report Number :E2/2022/30056

Operation Mode :802.11ax40

Test Frequency :2437 MHz

Test Mode :TX CH MID

EUT Pol :E1 Plane

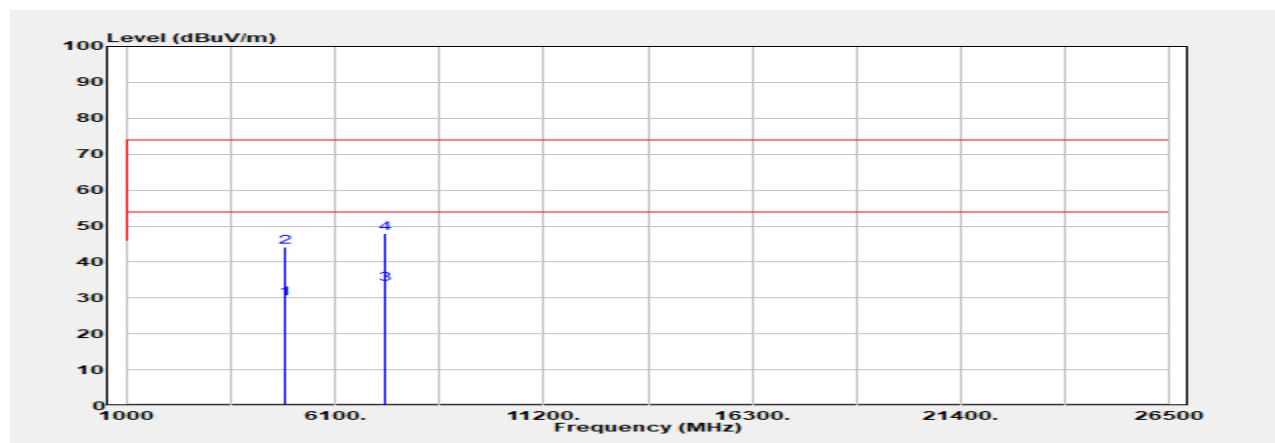
Test Site :SAC G

Test Date :2022-05-19

Temp./Humi. :26.8/68

Antenna Pol. :Vertical

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4874.000	Average	26.58	3.23	29.81	54.00	-24.19
4874.000	Peak	40.95	3.23	44.18	74.00	-29.82
7311.000	Average	26.13	7.68	33.81	54.00	-20.19
7311.000	Peak	40.26	7.68	47.94	74.00	-26.06

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Report Number :E2/2022/30056

Operation Mode :802.11ax40

Test Frequency :2437 MHz

Test Mode :TX CH MID

EUT Pol :E1 Plane

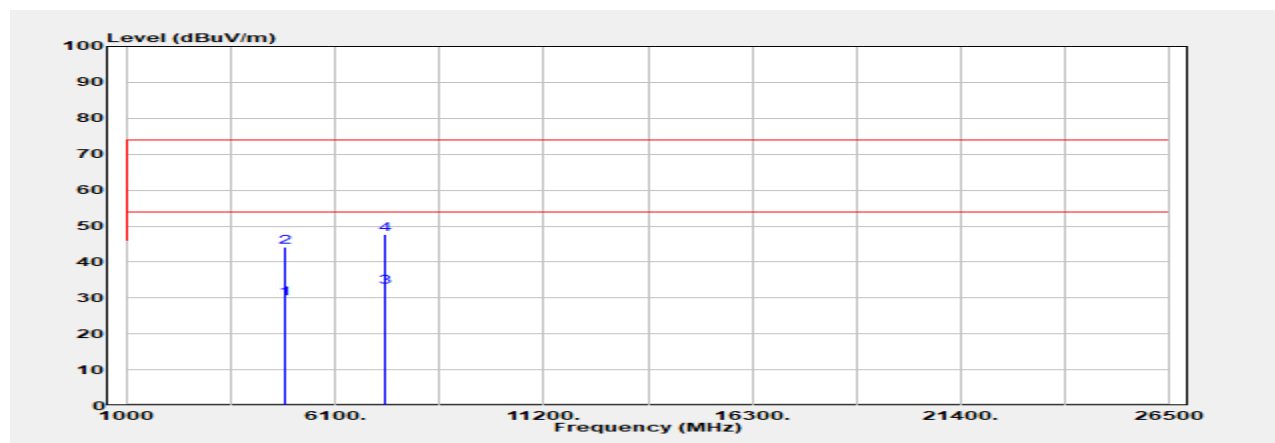
Test Site :SAC G

Test Date :2022-05-19

Temp./Humi. :26.8/68

Antenna Pol. :Horizontal

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4874.000	Average	26.53	3.23	29.76	54.00	-24.24
4874.000	Peak	40.96	3.23	44.19	74.00	-29.81
7311.000	Average	25.33	7.68	33.01	54.00	-20.99
7311.000	Peak	40.03	7.68	47.71	74.00	-26.29

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Report Number :E2/2022/30056

Operation Mode :802.11ax40

Test Frequency :2452 MHz

Test Mode :TX CH HIGH

EUT Pol :E1 Plane

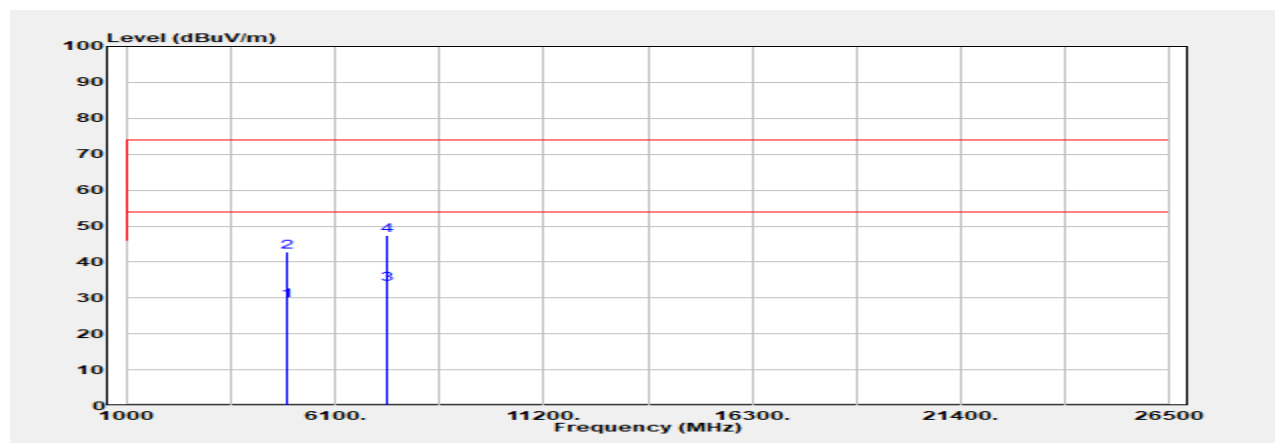
Test Site :SAC G

Test Date :2022-05-19

Temp./Humi. :26.8/68

Antenna Pol. :Vertical

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4904.000	Average	26.13	3.10	29.23	54.00	-24.77
4904.000	Peak	39.83	3.10	42.93	74.00	-31.07
7356.000	Average	26.02	7.88	33.90	54.00	-20.10
7356.000	Peak	39.59	7.88	47.47	74.00	-26.53

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Report Number :E2/2022/30056

Operation Mode :802.11ax40

Test Frequency :2452 MHz

Test Mode :TX CH HIGH

EUT Pol :E1 Plane

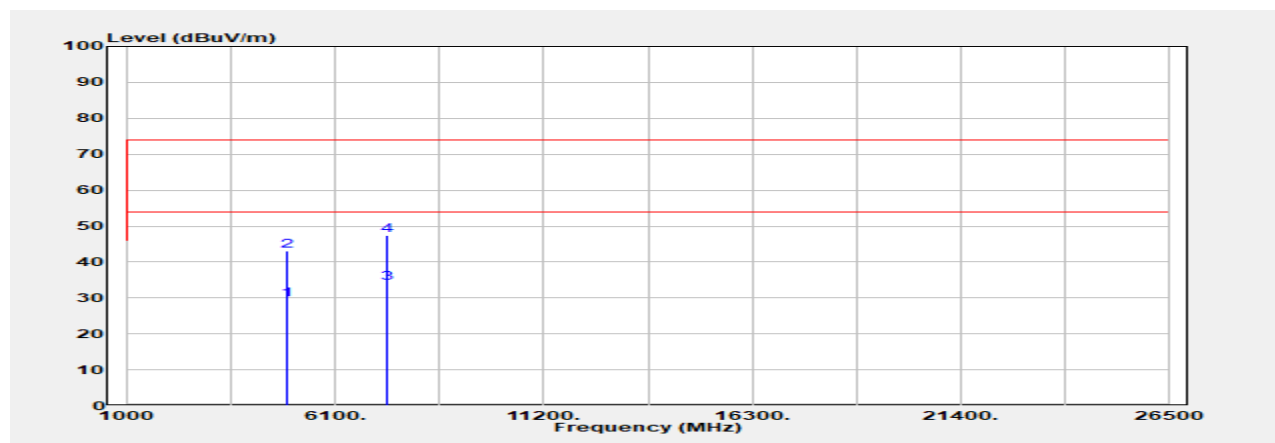
Test Site :SAC G

Test Date :2022-05-19

Temp./Humi. :26.8/68

Antenna Pol. :Horizontal

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4904.000	Average	26.49	3.10	29.59	54.00	-24.41
4904.000	Peak	39.95	3.10	43.05	74.00	-30.95
7356.000	Average	26.35	7.88	34.23	54.00	-19.77
7356.000	Peak	39.48	7.88	47.36	74.00	-26.64

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Beamforming

Report Number :E2/2022/30056

Test Site :SAC G

Operation Mode :802.11ax20

Test Date :2022-05-29

Test Frequency :2437 MHz

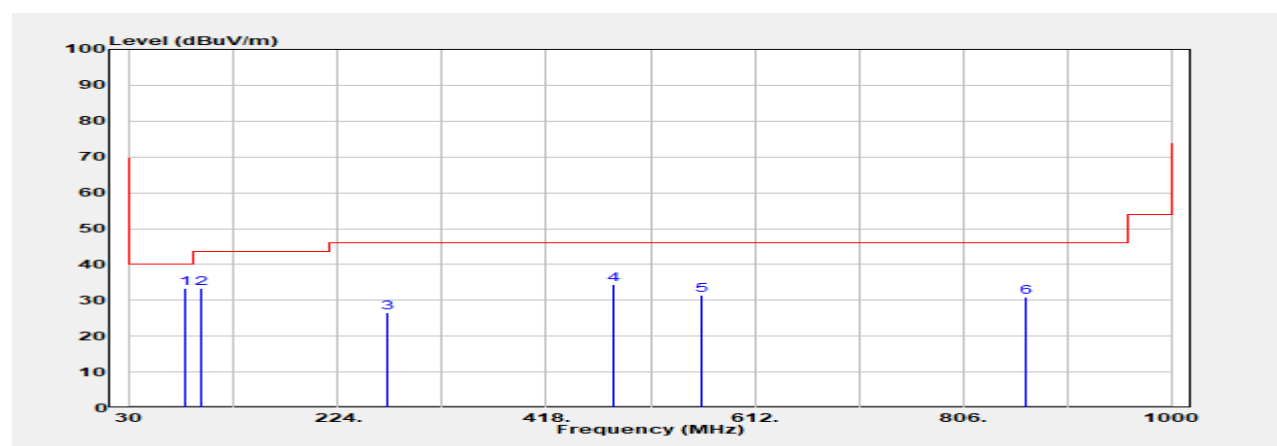
Temp./Humi. :21.3/69

Test Mode :TX CH MID

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
81.410	Peak	50.89	-17.68	33.21	40.00	-6.79
96.930	Peak	51.50	-18.23	33.26	43.50	-10.24
270.560	Peak	39.79	-13.30	26.49	46.00	-19.51
480.080	Peak	42.53	-8.06	34.47	46.00	-11.53
562.530	Peak	37.82	-6.43	31.40	46.00	-14.60
864.200	Peak	31.52	-0.56	30.96	46.00	-15.04

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Report Number :E2/2022/30056

Test Site :SAC G

Operation Mode :802.11ax20

Test Date :2022-05-29

Test Frequency :2437 MHz

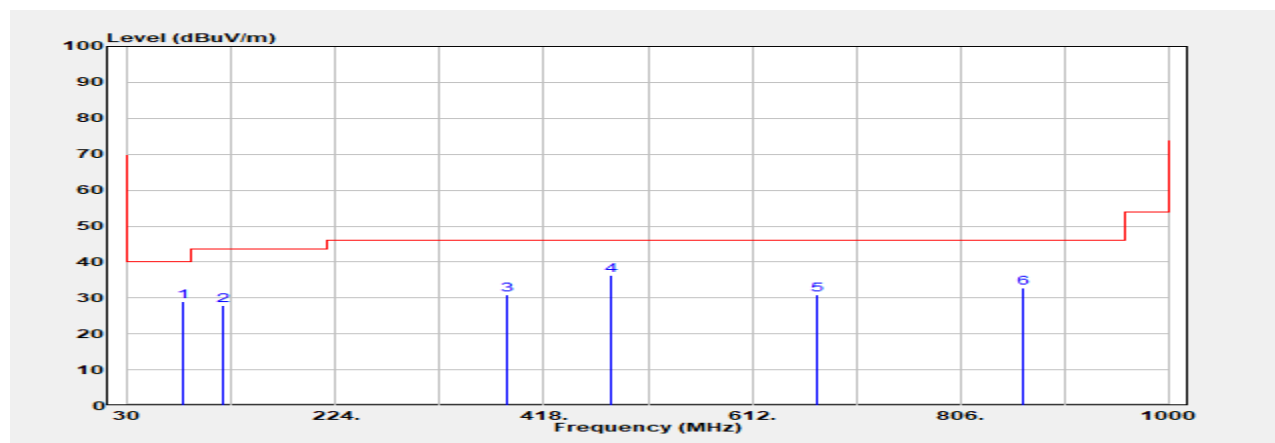
Temp./Humi. :21.3/69

Test Mode :TX CH MID

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
82.380	Peak	46.64	-17.74	28.90	40.00	-11.10
119.240	Peak	43.45	-15.43	28.02	43.50	-15.48
384.050	Peak	41.08	-10.24	30.84	46.00	-15.16
480.080	Peak	44.51	-8.06	36.45	46.00	-9.55
672.140	Peak	35.51	-4.51	31.00	46.00	-15.00
864.200	Peak	33.33	-0.56	32.76	46.00	-13.24

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Report Number :E2/2022/30056

Operation Mode :802.11ax40

Test Frequency :2437 MHz

Test Mode :TX CH MID

EUT Pol :E1 Plane

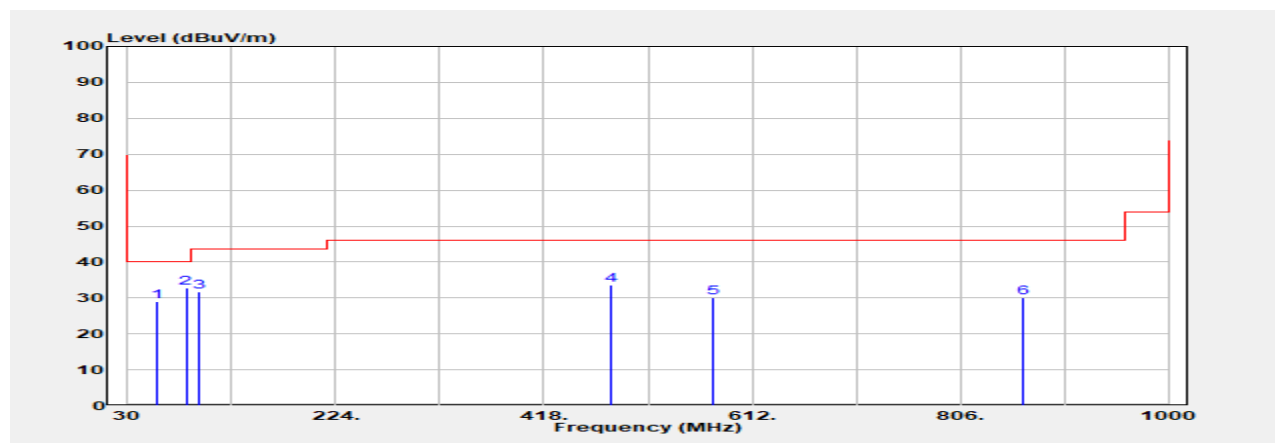
Test Site :SAC G

Test Date :2022-05-29

Temp./Humi. :21.3/69

Antenna Pol. :Vertical

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
58.130	Peak	42.51	-13.44	29.07	40.00	-10.93
84.320	Peak	50.99	-18.10	32.89	40.00	-7.11
95.960	Peak	50.40	-18.60	31.80	43.50	-11.70
480.080	Peak	41.57	-8.06	33.51	46.00	-12.49
576.110	Peak	35.89	-5.89	30.00	46.00	-16.00
864.200	Peak	30.74	-0.56	30.18	46.00	-15.82

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Report Number :E2/2022/30056

Operation Mode :802.11ax40

Test Frequency :2437 MHz

Test Mode :TX CH MID

EUT Pol :E1 Plane

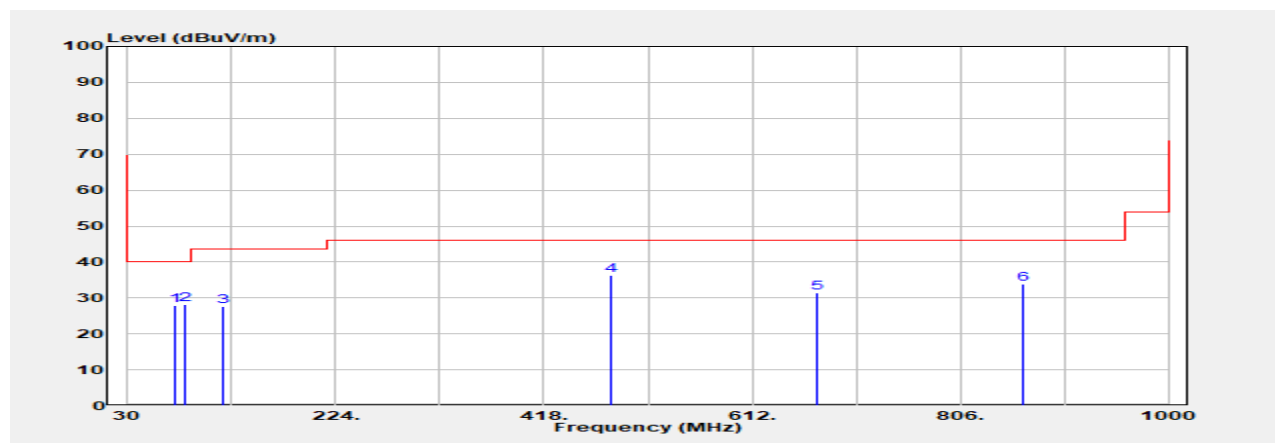
Test Site :SAC G

Test Date :2022-05-29

Temp./Humi. :21.3/69

Antenna Pol. :Horizontal

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
74.620	Peak	44.03	-16.19	27.84	40.00	-12.16
83.350	Peak	46.06	-17.92	28.13	40.00	-11.87
119.240	Peak	42.94	-15.43	27.51	43.50	-15.99
480.080	Peak	44.40	-8.06	36.35	46.00	-9.65
672.140	Peak	35.89	-4.51	31.38	46.00	-14.62
864.200	Peak	34.37	-0.56	33.81	46.00	-12.19

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Report Number :E2/2022/30056

Operation Mode :802.11ax20

Test Frequency :2412 MHz

Test Mode :TX CH LOW

EUT Pol :E1 Plane

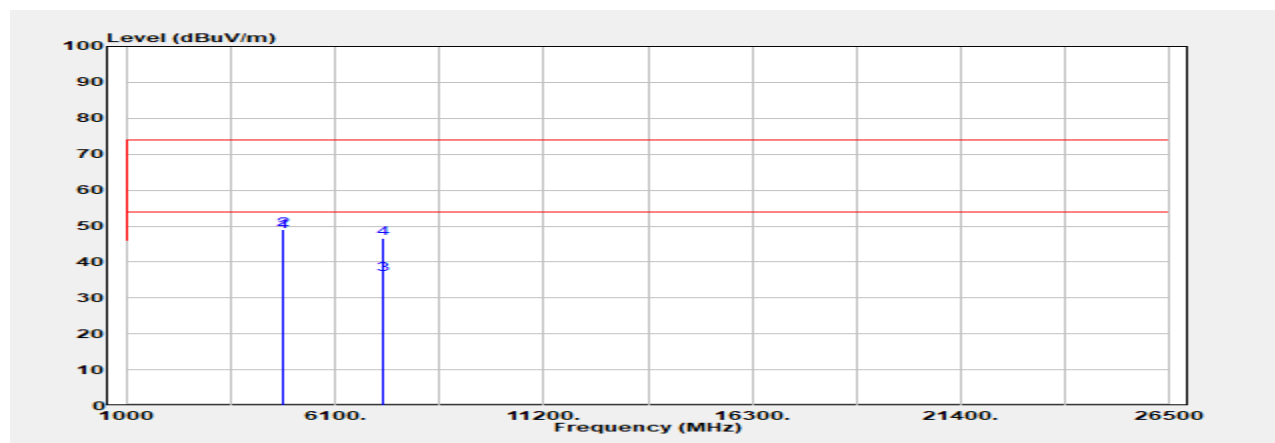
Test Site :SAC G

Test Date :2022-05-25

Temp./Humi. :21.3/69

Antenna Pol. :Vertical

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4824.000	Average	45.42	3.01	48.43	54.00	-5.57
4824.000	Peak	45.96	3.01	48.97	74.00	-25.03
7236.000	Average	28.94	7.53	36.47	54.00	-17.53
7236.000	Peak	39.05	7.53	46.58	74.00	-27.42

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Report Number :E2/2022/30056

Operation Mode :802.11ax20

Test Frequency :2412 MHz

Test Mode :TX CH LOW

EUT Pol :E1 Plane

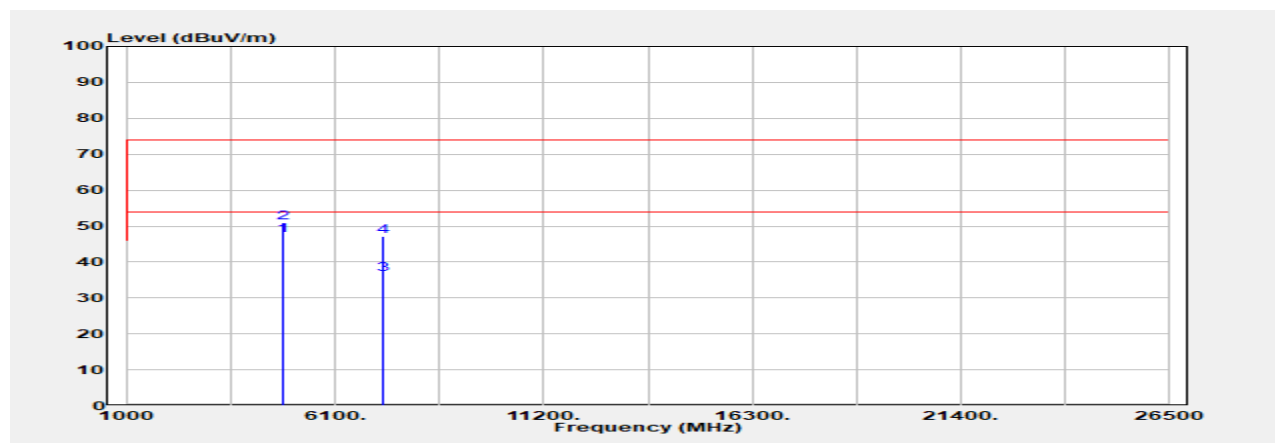
Test Site :SAC G

Test Date :2022-05-25

Temp./Humi. :21.3/69

Antenna Pol. :Horizontal

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4824.000	Average	44.42	3.01	47.44	54.00	-6.56
4824.000	Peak	48.01	3.01	51.02	74.00	-22.98
7236.000	Average	29.05	7.53	36.58	54.00	-17.42
7236.000	Peak	39.65	7.53	47.18	74.00	-26.82

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Report Number :E2/2022/30056

Operation Mode :802.11ax20

Test Frequency :2437 MHz

Test Mode :TX CH MID

EUT Pol :E1 Plane

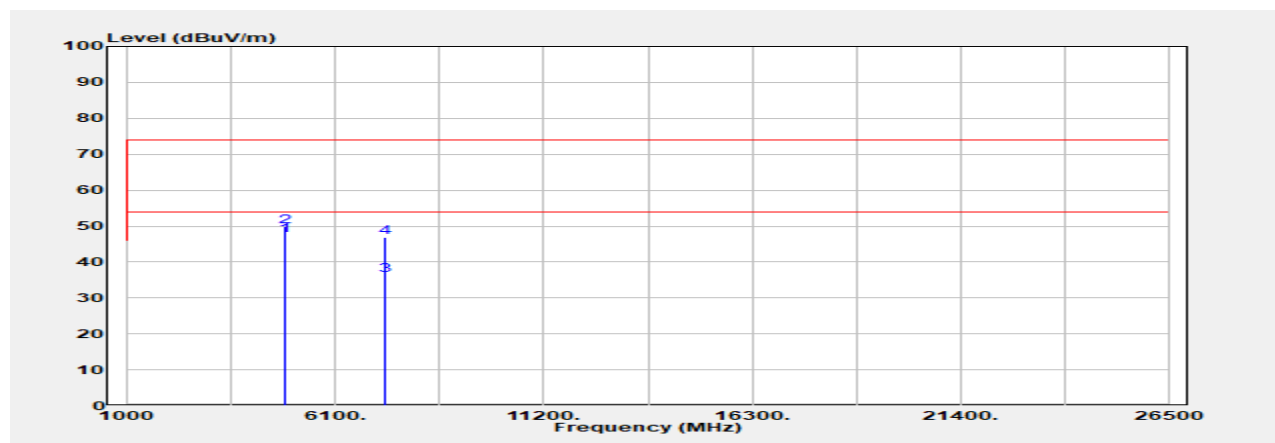
Test Site :SAC G

Test Date :2022-05-25

Temp./Humi. :21.3/69

Antenna Pol. :Vertical

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4874.000	Average	44.13	3.23	47.36	54.00	-6.64
4874.000	Peak	46.77	3.23	49.99	74.00	-24.01
7311.000	Average	28.76	7.68	36.44	54.00	-17.56
7311.000	Peak	39.20	7.68	46.87	74.00	-27.13

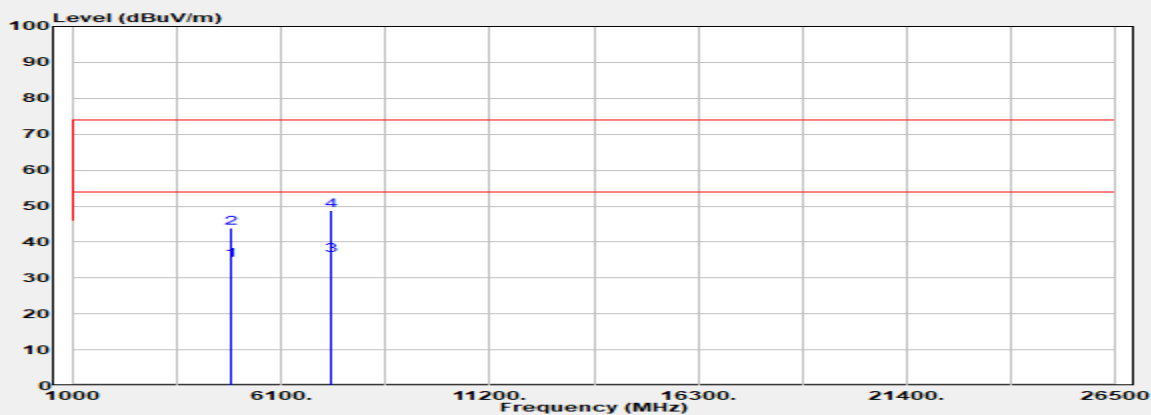
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Report Number :E2/2022/30056
 Operation Mode :802.11ax20
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :E1 Plane

Test Site :SAC G
 Test Date :2022-05-25
 Temp./Humi. :21.3/69
 Antenna Pol. :Horizontal
 Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4874.000	Average	31.61	3.23	34.83	54.00	-19.17
4874.000	Peak	40.56	3.23	43.79	74.00	-30.21
7311.000	Average	28.66	7.68	36.34	54.00	-17.66
7311.000	Peak	40.97	7.68	48.65	74.00	-25.35

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Report Number :E2/2022/30056

Operation Mode :802.11ax20

Test Frequency :2462 MHz

Test Mode :TX CH HIGH

EUT Pol :E1 Plane

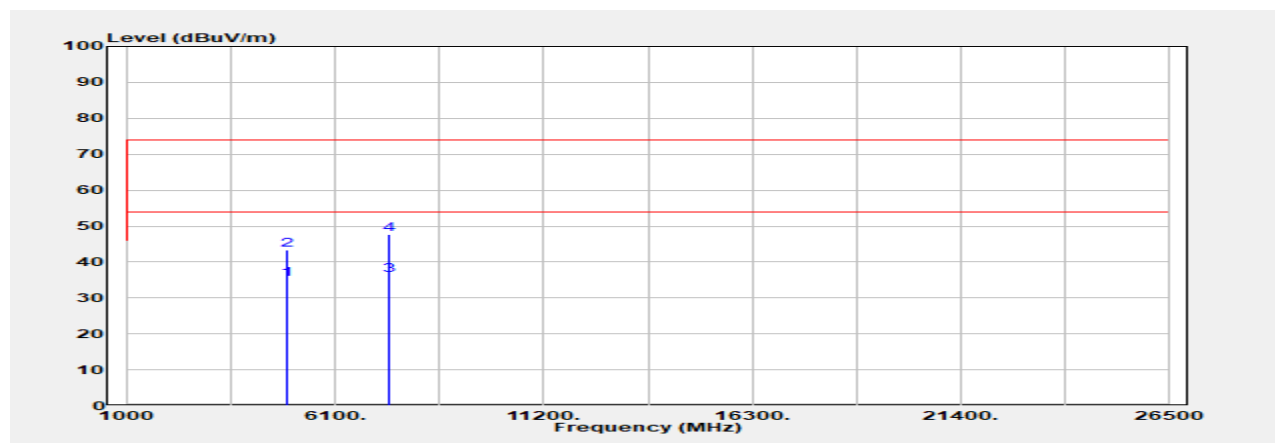
Test Site :SAC G

Test Date :2022-05-25

Temp./Humi. :21.3/69

Antenna Pol. :Vertical

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4924.000	Average	32.00	3.26	35.26	54.00	-18.74
4924.000	Peak	40.14	3.26	43.40	74.00	-30.60
7386.000	Average	28.70	7.72	36.41	54.00	-17.59
7386.000	Peak	39.95	7.72	47.67	74.00	-26.33

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Report Number :E2/2022/30056

Operation Mode :802.11ax20

Test Frequency :2462 MHz

Test Mode :TX CH HIGH

EUT Pol :E1 Plane

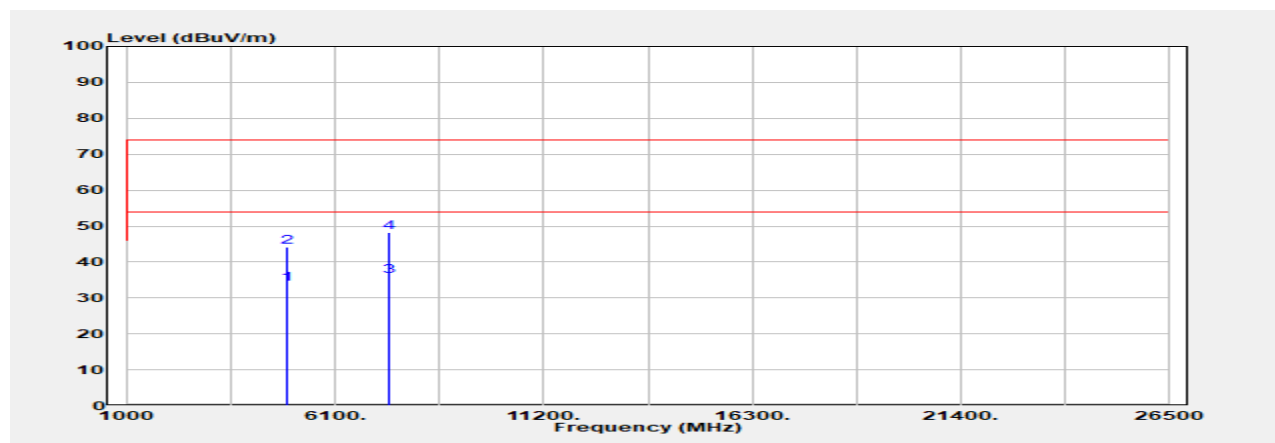
Test Site :SAC G

Test Date :2022-05-25

Temp./Humi. :21.3/69

Antenna Pol. :Horizontal

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4924.000	Average	30.71	3.26	33.97	54.00	-20.03
4924.000	Peak	40.82	3.26	44.08	74.00	-29.92
7386.000	Average	28.43	7.72	36.15	54.00	-17.85
7386.000	Peak	40.56	7.72	48.28	74.00	-25.72

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Report Number :E2/2022/30056

Operation Mode :802.11ax40

Test Frequency :2422 MHz

Test Mode :TX CH LOW

EUT Pol :E1 Plane

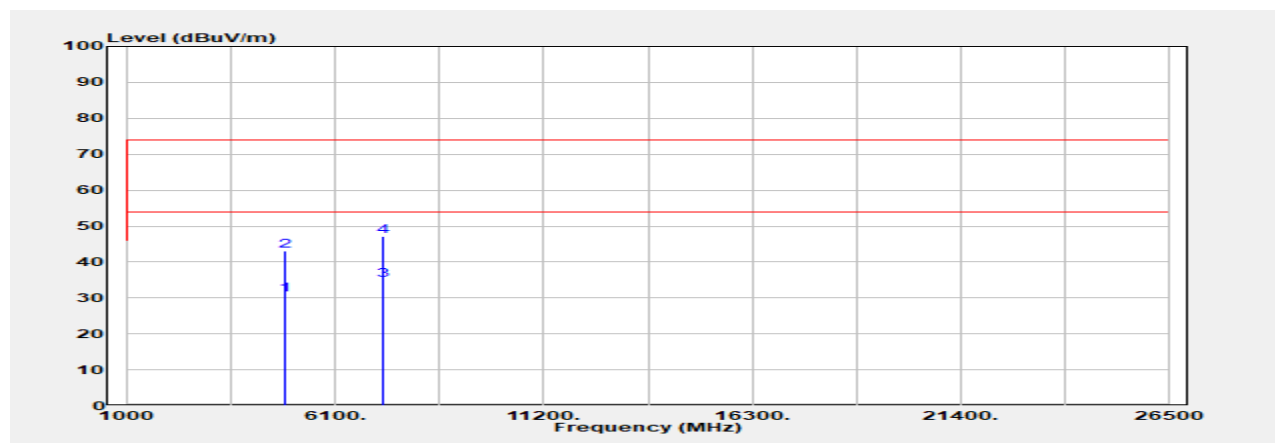
Test Site :SAC G

Test Date :2022-05-27

Temp./Humi. :21.3/69

Antenna Pol. :Vertical

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4844.000	Average	28.13	2.86	30.99	54.00	-23.01
4844.000	Peak	40.14	2.86	43.00	74.00	-31.00
7266.000	Average	26.43	8.40	34.83	54.00	-19.17
7266.000	Peak	38.77	8.40	47.17	74.00	-26.83

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Report Number :E2/2022/30056

Operation Mode :802.11ax40

Test Frequency :2422 MHz

Test Mode :TX CH LOW

EUT Pol :E1 Plane

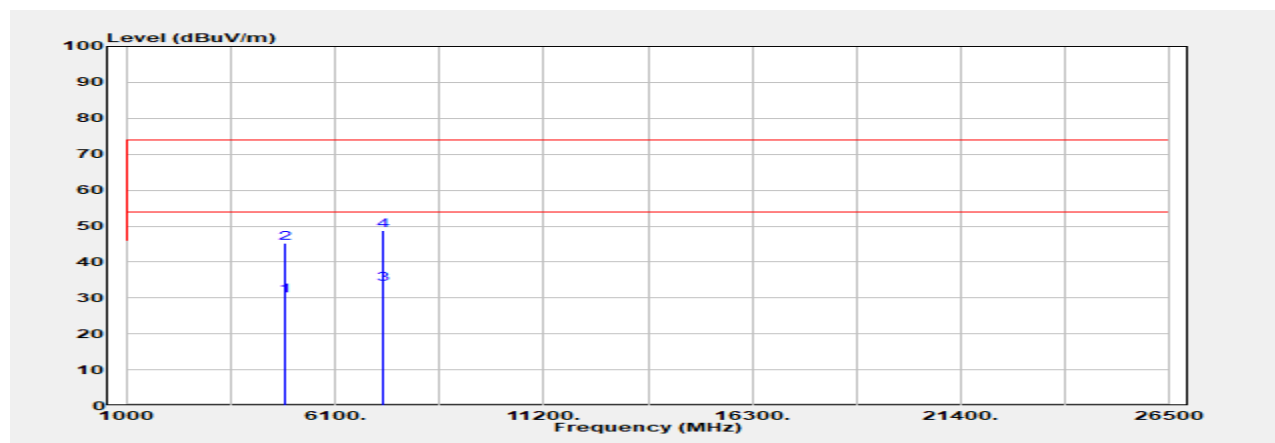
Test Site :SAC G

Test Date :2022-05-27

Temp./Humi. :21.3/69

Antenna Pol. :Horizontal

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4844.000	Average	27.71	2.86	30.57	54.00	-23.43
4844.000	Peak	42.37	2.86	45.24	74.00	-28.76
7266.000	Average	25.61	8.40	34.01	54.00	-19.99
7266.000	Peak	40.49	8.40	48.89	74.00	-25.11

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Report Number :E2/2022/30056

Operation Mode :802.11ax40

Test Frequency :2437 MHz

Test Mode :TX CH MID

EUT Pol :E1 Plane

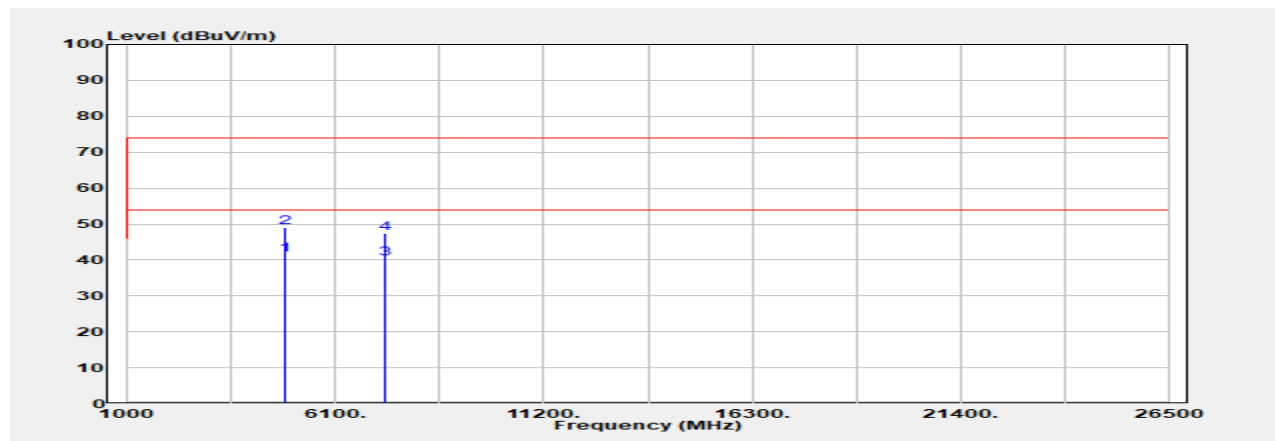
Test Site :SAC G

Test Date :2022-05-27

Temp./Humi. :21.3/69

Antenna Pol. :Vertical

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4874.000	Average	38.33	3.23	41.56	54.00	-12.44
4874.000	Peak	45.88	3.23	49.10	74.00	-24.90
7311.000	Average	32.62	7.68	40.30	54.00	-13.70
7311.000	Peak	39.73	7.68	47.41	74.00	-26.59

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Report Number :E2/2022/30056

Operation Mode :802.11ax40

Test Frequency :2437 MHz

Test Mode :TX CH MID

EUT Pol :E1 Plane

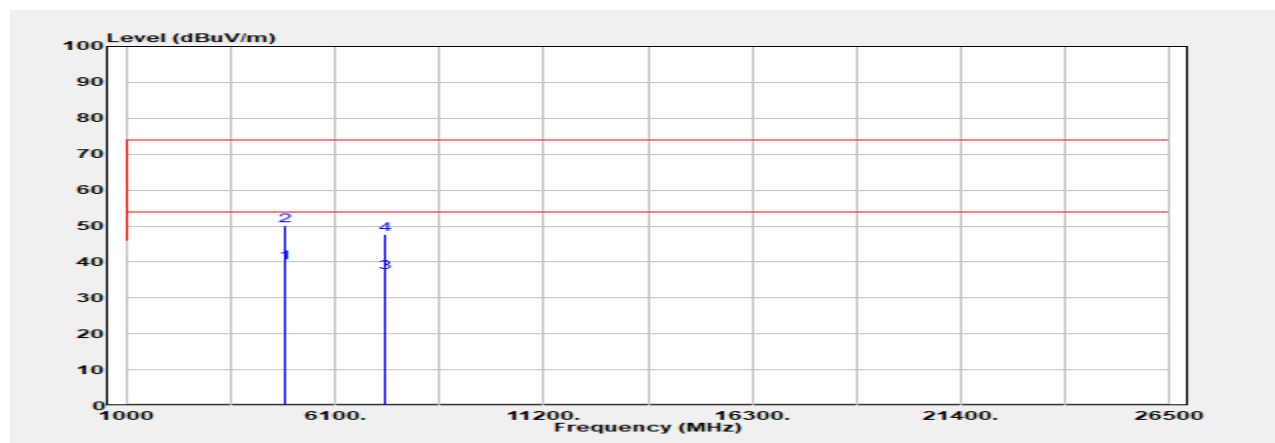
Test Site :SAC G

Test Date :2022-05-27

Temp./Humi. :21.3/69

Antenna Pol. :Horizontal

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4874.000	Average	36.50	3.23	39.72	54.00	-14.28
4874.000	Peak	46.89	3.23	50.12	74.00	-23.88
7311.000	Average	29.46	7.68	37.14	54.00	-16.86
7311.000	Peak	39.93	7.68	47.61	74.00	-26.39

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Report Number :E2/2022/30056

Operation Mode :802.11ax40

Test Frequency :2452 MHz

Test Mode :TX CH HIGH

EUT Pol :E1 Plane

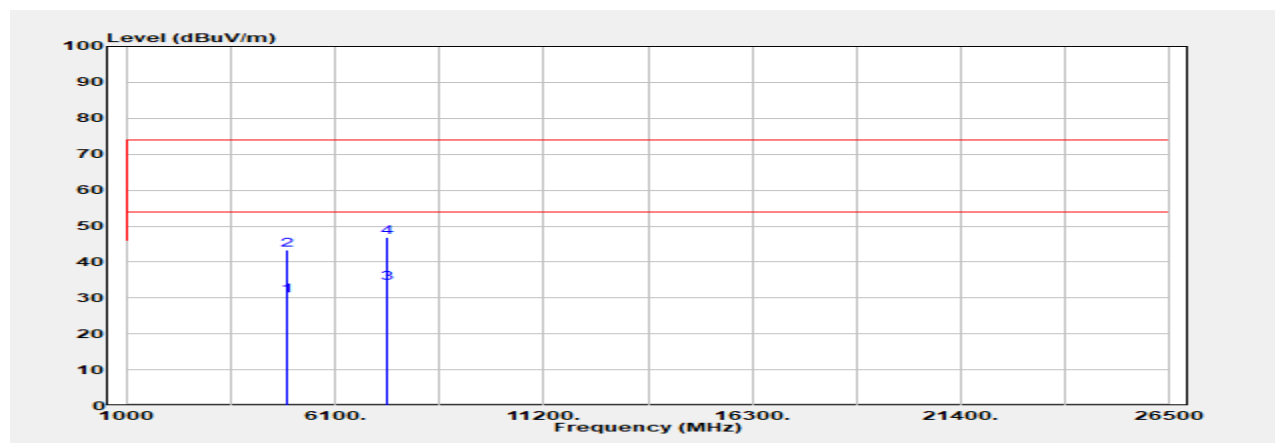
Test Site :SAC G

Test Date :2022-05-27

Temp./Humi. :21.3/69

Antenna Pol. :Vertical

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4904.000	Average	27.48	3.10	30.58	54.00	-23.42
4904.000	Peak	40.17	3.10	43.27	74.00	-30.73
7356.000	Average	26.33	7.88	34.21	54.00	-19.79
7356.000	Peak	39.10	7.88	46.98	74.00	-27.02

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Report Number :E2/2022/30056

Operation Mode :802.11ax40

Test Frequency :2452 MHz

Test Mode :TX CH HIGH

EUT Pol :E1 Plane

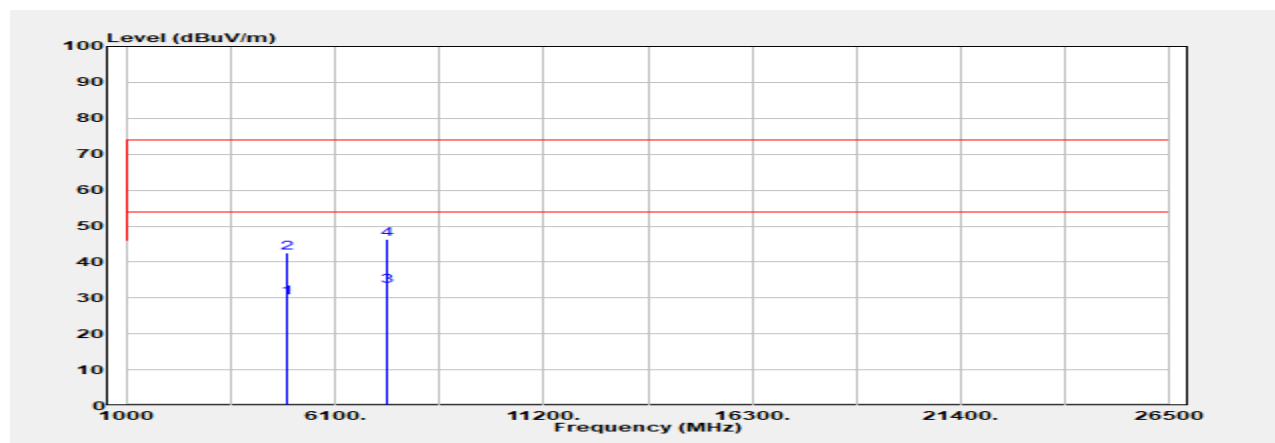
Test Site :SAC G

Test Date :2022-05-27

Temp./Humi. :21.3/69

Antenna Pol. :Horizontal

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4904.000	Average	26.98	3.10	30.08	54.00	-23.92
4904.000	Peak	39.37	3.10	42.47	74.00	-31.53
7356.000	Average	25.43	7.88	33.31	54.00	-20.69
7356.000	Peak	38.54	7.88	46.42	74.00	-27.58

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12 POWER SPECTRAL DENSITY

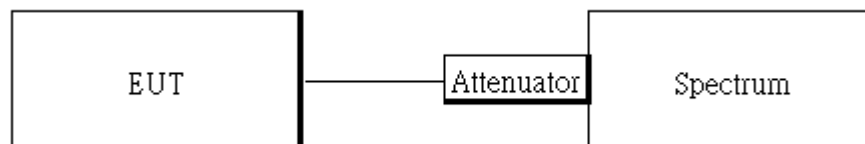
12.1 Standard Applicable

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, cable loss is specified below.

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.

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

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

$g_{j,k} = 10 \log G_k$ 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	-5.37	-5.45	-2.40	8.00	PASS
2437	-1.07	-0.89	2.03	8.00	PASS
2462	-1.49	-1.35	1.59	8.00	PASS

POWER DENSITY 802.11g					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-4.48	-3.35	-0.87	8.00	PASS
2437	-3.14	-3.84	-0.47	8.00	PASS
2462	-5.62	-5.05	-2.32	8.00	PASS

POWER DENSITY 802.11n HT20					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-4.15	-5.49	-1.76	8.00	PASS
2437	-6.27	-5.41	-2.81	8.00	PASS
2462	-4.71	-6.66	-2.57	8.00	PASS

POWER DENSITY 802.11n HT40					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422	-7.42	-7.57	-4.48	8.00	PASS
2437	-7.83	-7.05	-4.41	8.00	PASS
2452	-8.6	-7.76	-5.15	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	-3.95	-5.89	-1.80	8.00	PASS
	26/0	-10.01	-11.21	-7.56	8.00	PASS
	52/37	-3.26	-3.79	-0.51	8.00	PASS
	106/53	-6.3	-5.31	-2.77	8.00	PASS
2437	full	-5.08	-3.61	-1.27	8.00	PASS
2462	full	-5.55	-3.66	-1.49	8.00	PASS
	26/8	-6.22	-5.27	-2.71	8.00	PASS
	52/40	-4.03	-4.07	-1.04	8.00	PASS
	106/54	-5.58	-6.41	-2.96	8.00	PASS

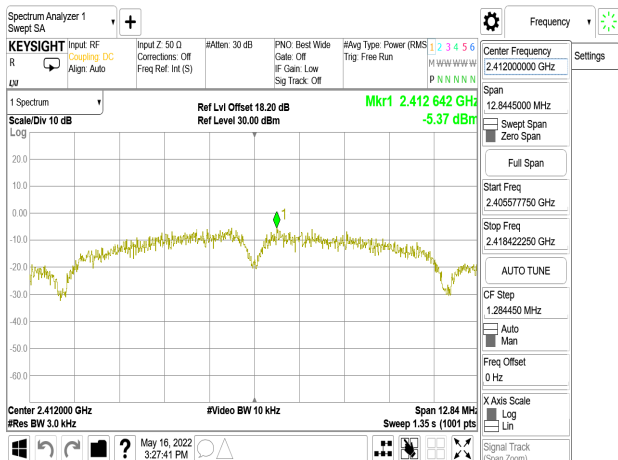
POWER DENSITY 802.11ax HE40						
Freq. (MHz)	RU Config	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422	full	-7.48	-6.15	-3.75	8.00	PASS
	242/61	-8.92	-9.38	-6.13	8.00	PASS
2437	full	-7.29	-7.4	-4.33	8.00	PASS
2452	full	-7.44	-6.67	-4.03	8.00	PASS
	242/62	-9.19	-10.09	-6.61	8.00	PASS

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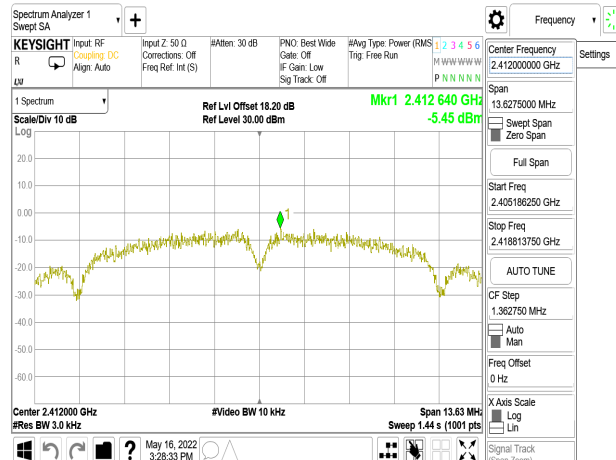
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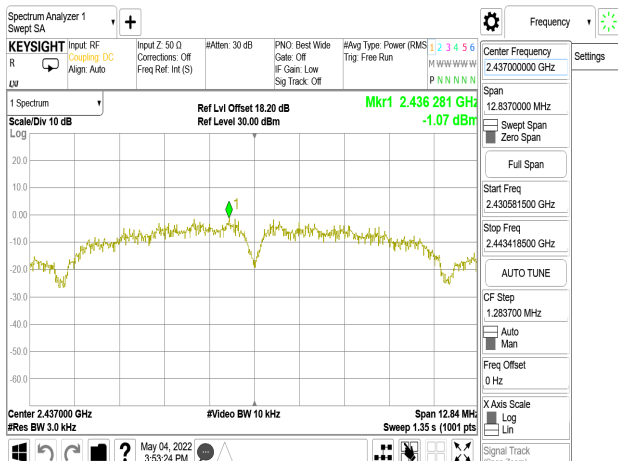
802.11b_20MHz_Chain0_2412MHz



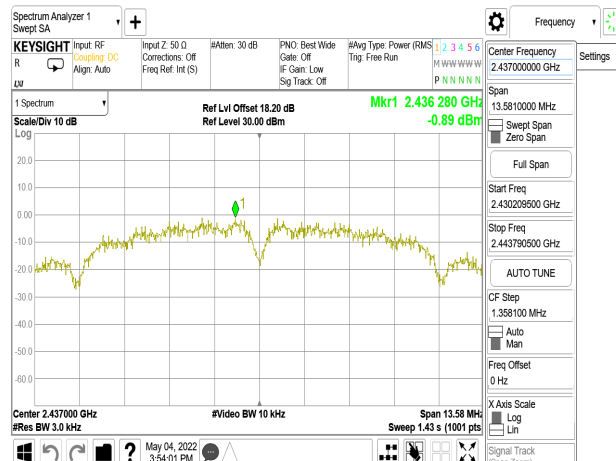
802.11b_20MHz_Chain1_2412MHz



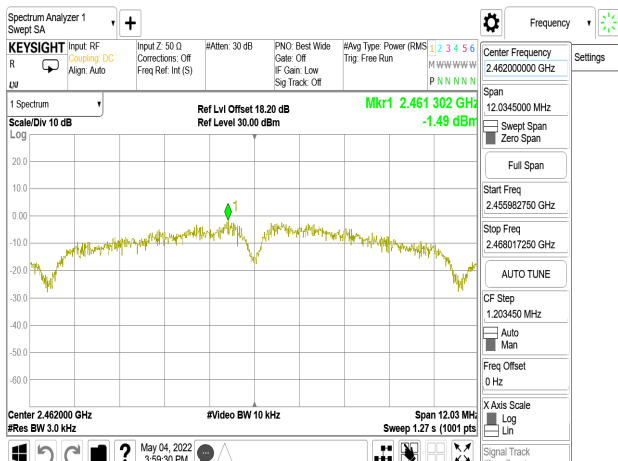
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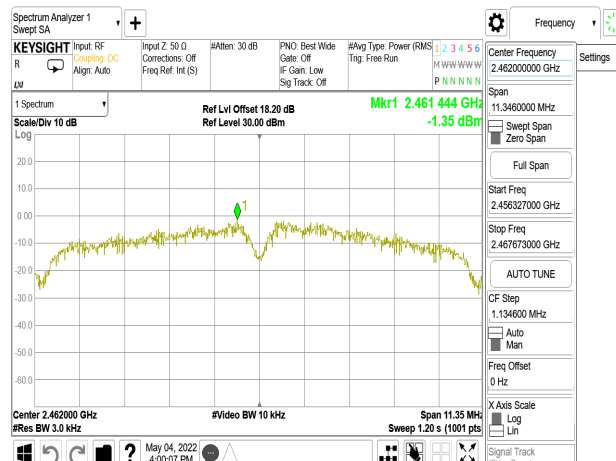
802.11b_20MHz_Chain1_2437MHz



802.11b_20MHz_Chain0_2462MHz



802.11b_20MHz_Chain1_2462MHz

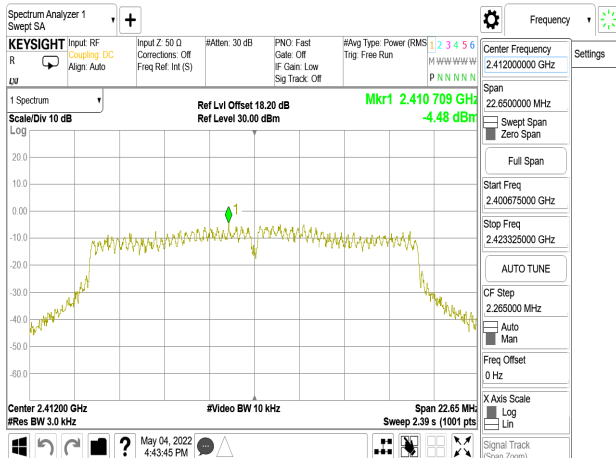


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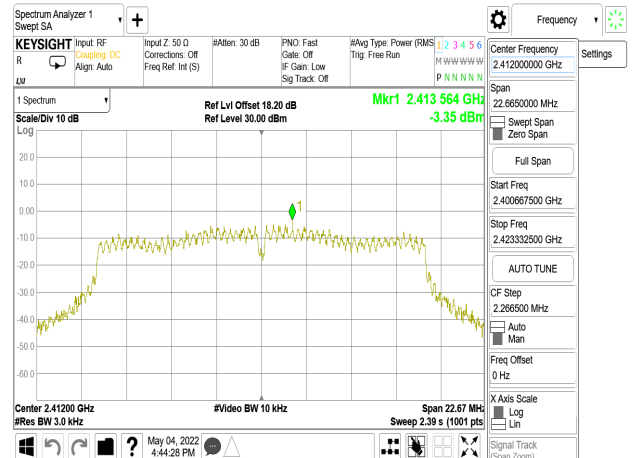
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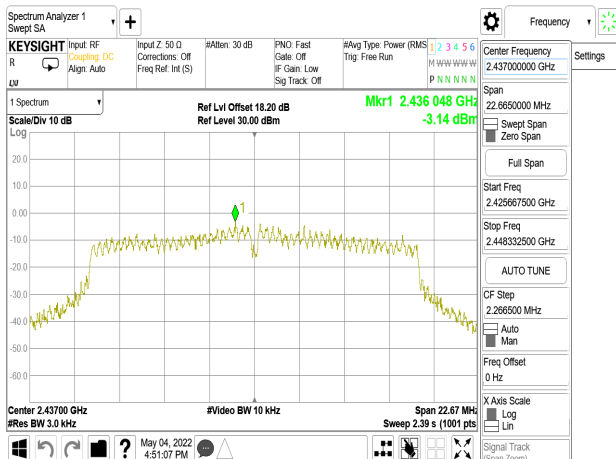
802.11g_20MHz_Chain0_2412MHz



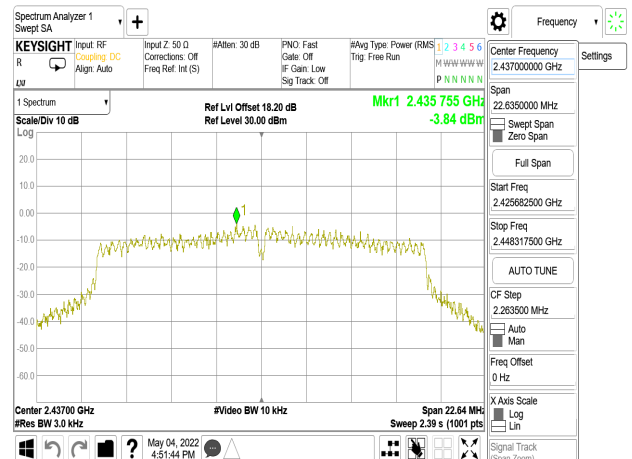
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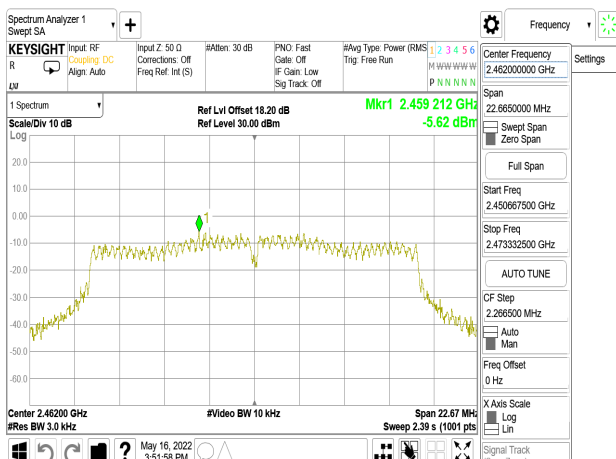
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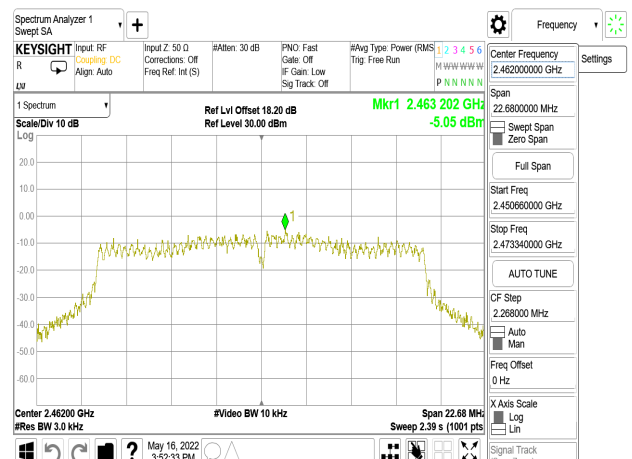
802.11g_20MHz_Chain1_2437MHz



802.11g_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain1_2462MHz

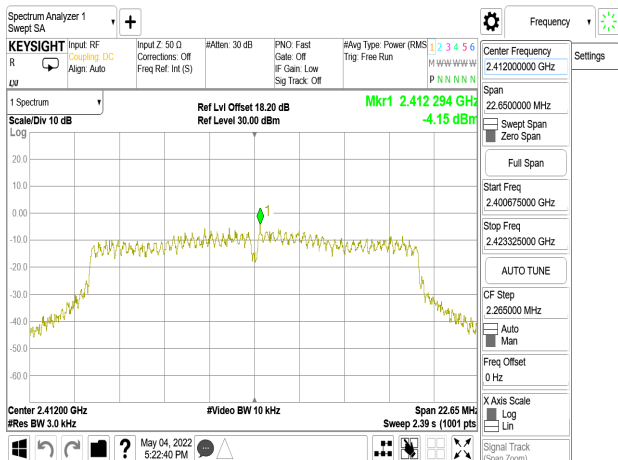


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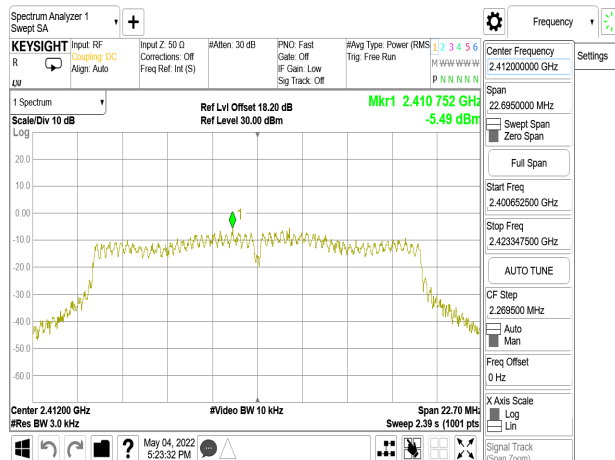
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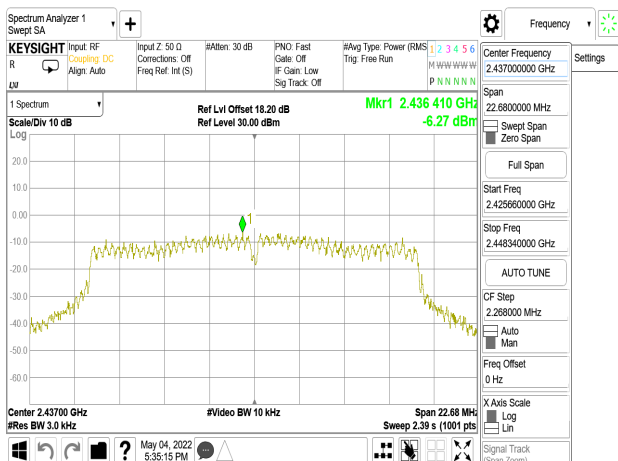
802.11n_20MHz_Chain0_2412MHz



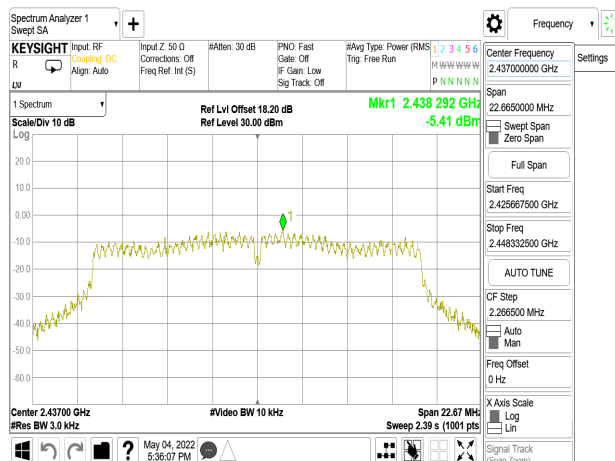
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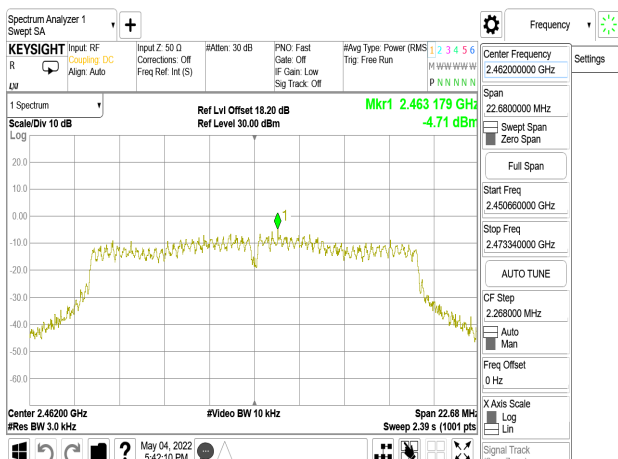
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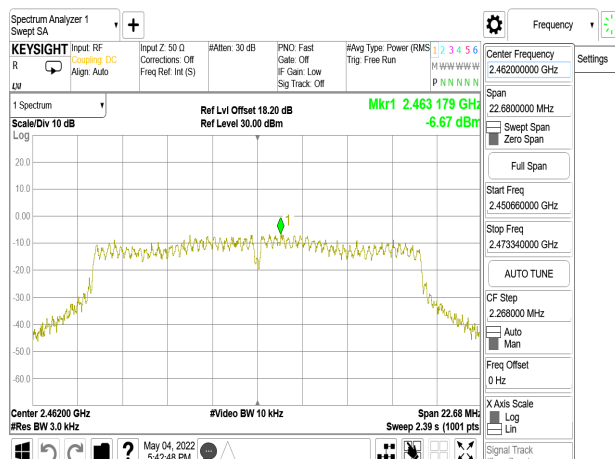
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802.11n_20MHz_Chain0_2462MHz



802.11n_20MHz_Chain1_2462MHz

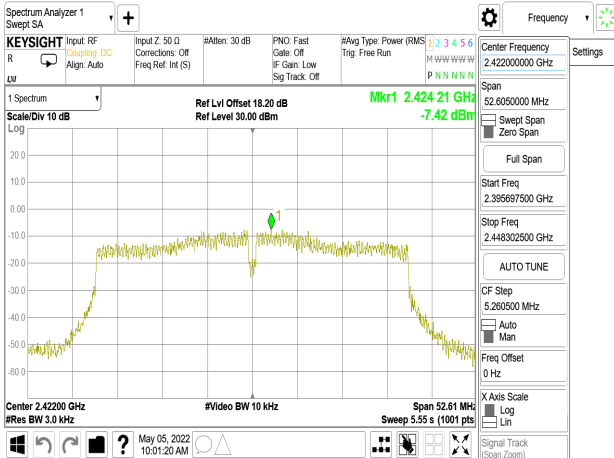


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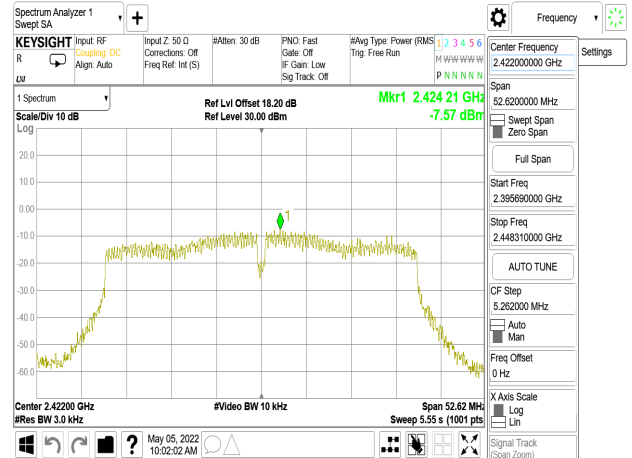
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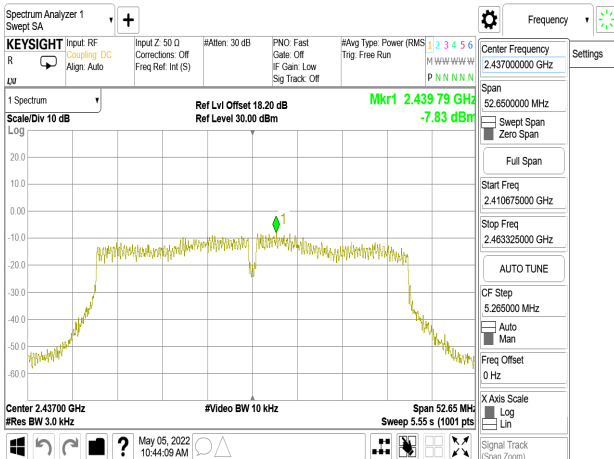
802.11n_40MHz_Chain0_2422MHz



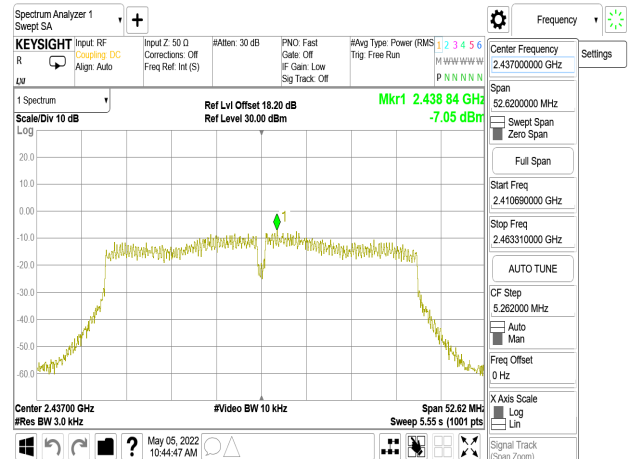
802.11n_40MHz_Chain1_2422MHz



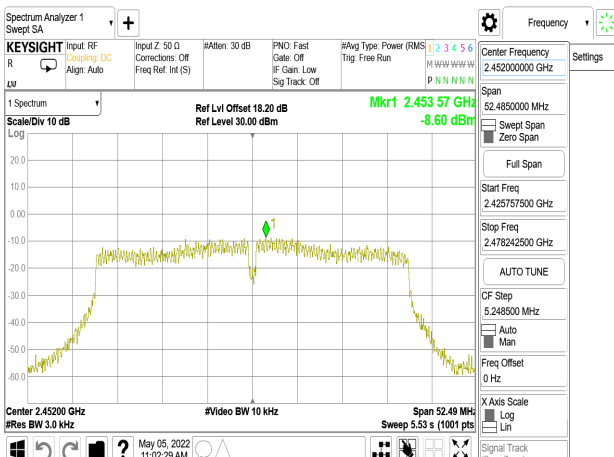
802.11n_40MHz_Chain0_2437MHz



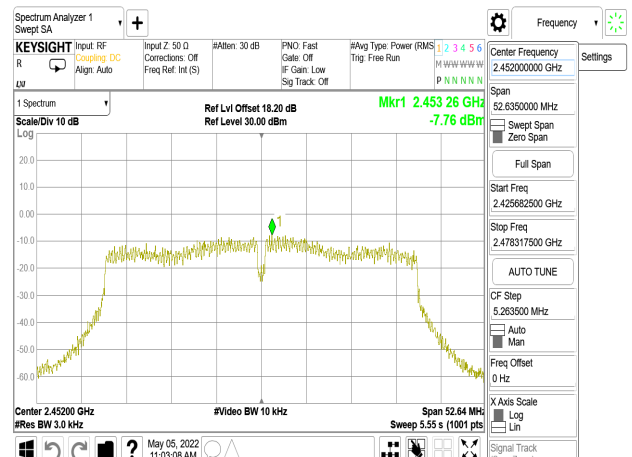
802.11n_40MHz_Chain1_2437MHz



802.11n_40MHz_Chain0_2452MHz



802.11n_40MHz_Chain1_2452MHz

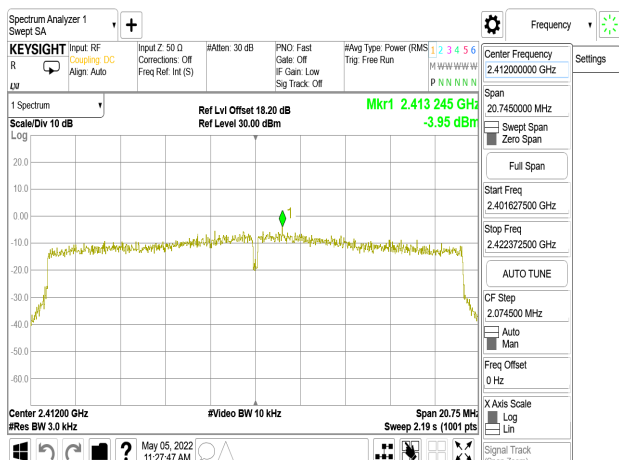


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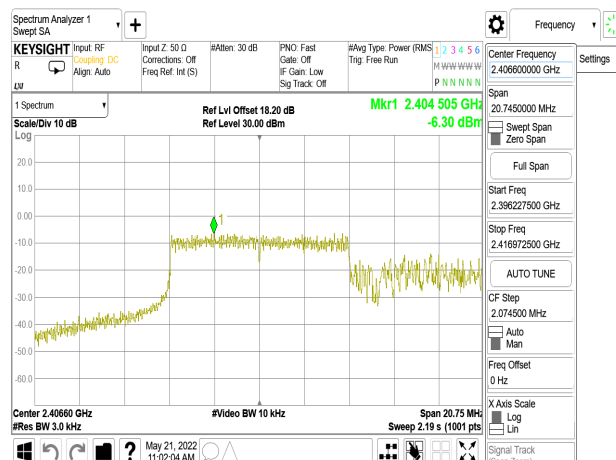
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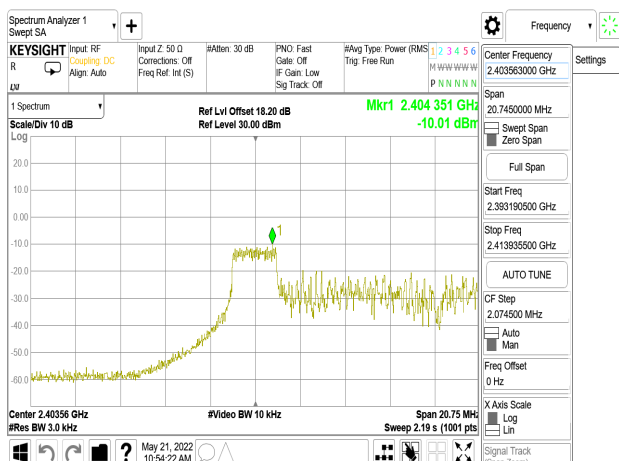
802.11ax_20MHz_Chain0_2412MHz



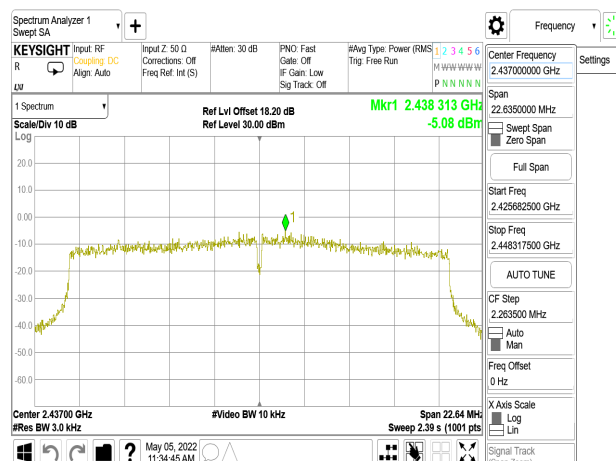
802.11ax_20MHz_Chain0_2412MHz_RU106_53



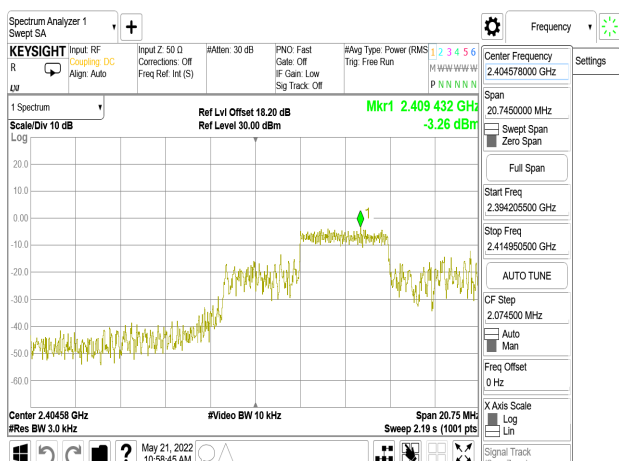
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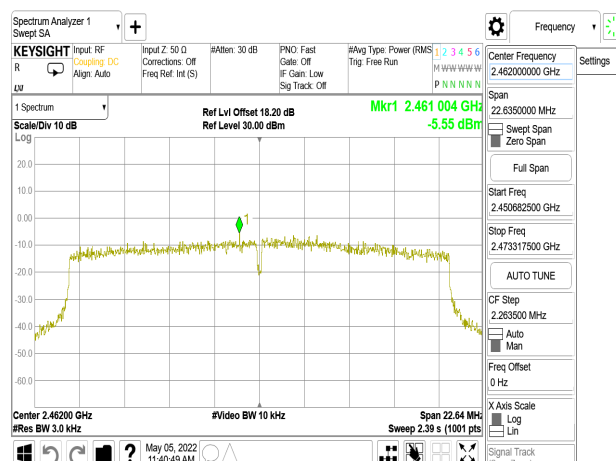
802.11ax_20MHz_Chain0_2437MHz



802.11ax_20MHz_Chain0_2412MHz_RU52_37



802.11ax_20MHz_Chain0_2462MHz

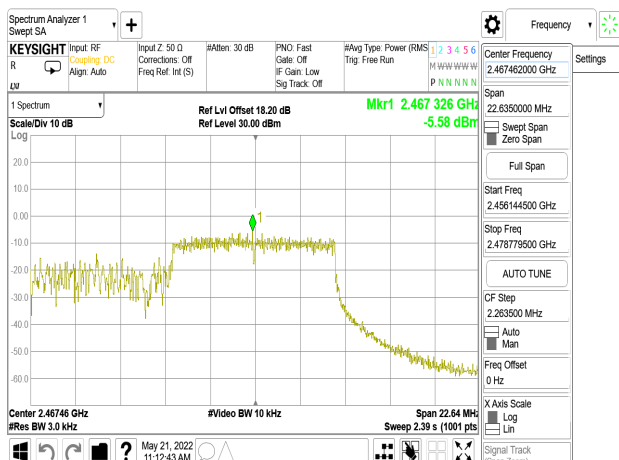


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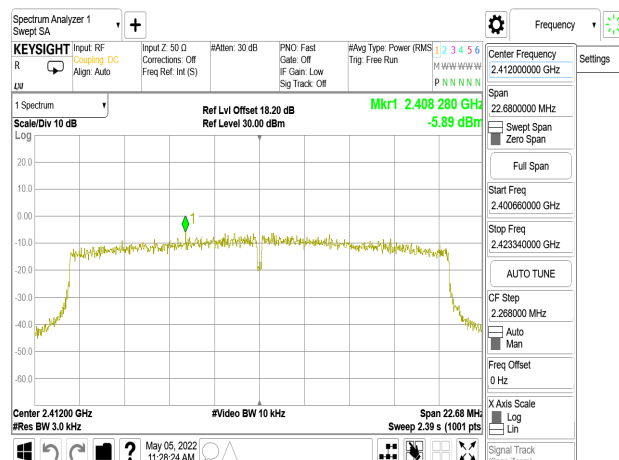
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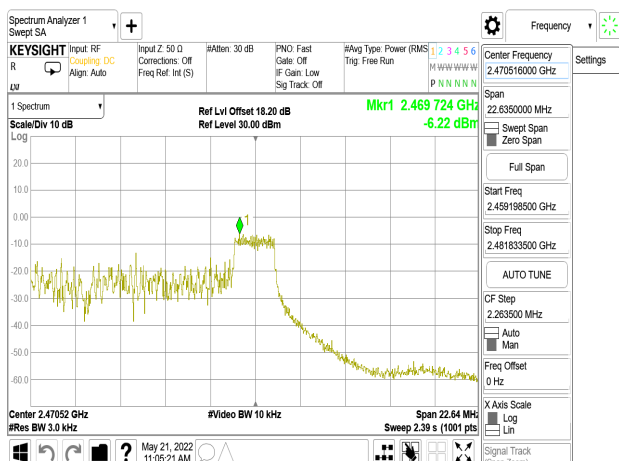
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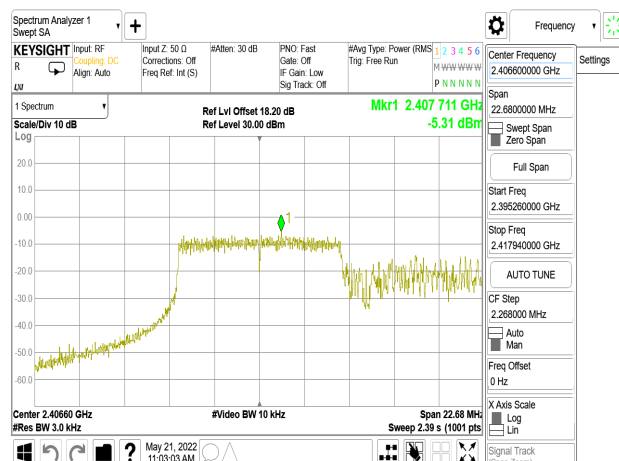
802.11ax_20MHz_Chain1_2412MHz



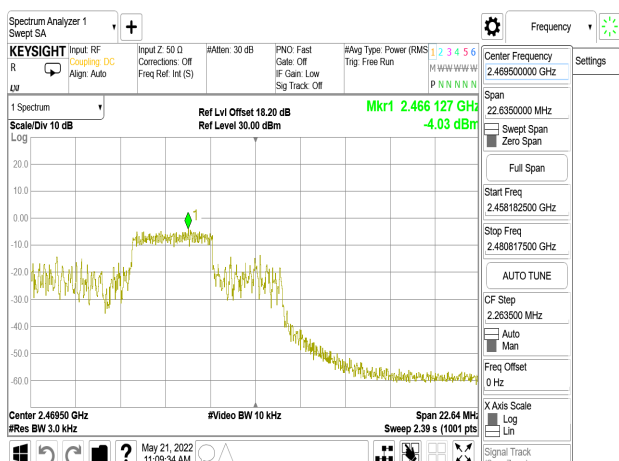
802.11ax_20MHz_Chain0_2462MHz_RU26_8



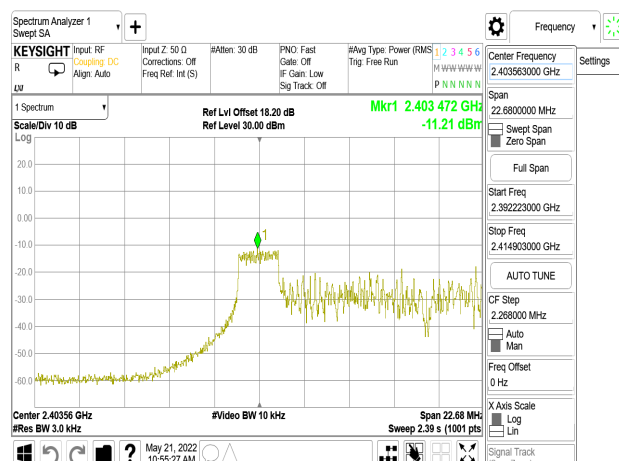
802.11ax_20MHz_Chain1_2412MHz_RU106_53



802.11ax_20MHz_Chain0_2462MHz_RU52_40



802.11ax_20MHz_Chain1_2412MHz_RU26_0



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