

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 and RSS-Gen §8.9 Table 5 and 6 limit as below.

And according to §15.33(a) (1) & RSS-Gen §6.13.2.a, for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

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

Note:

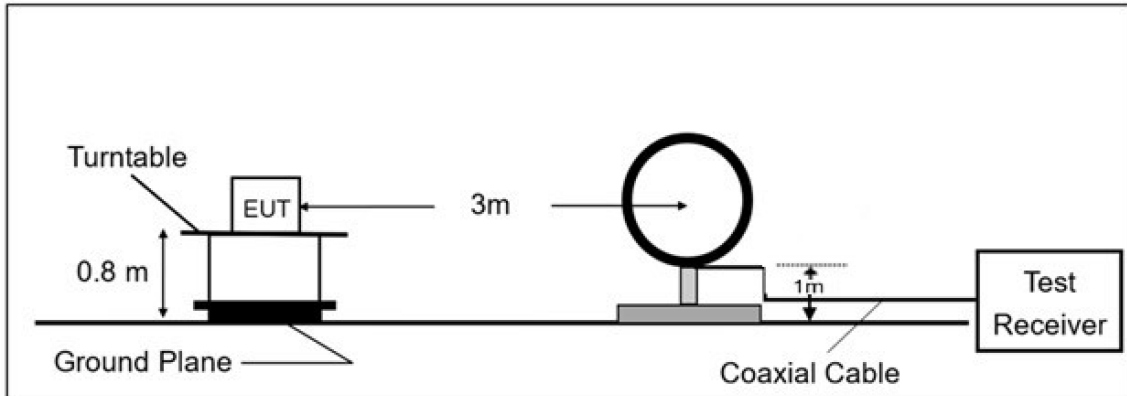
1. The lower limit shall apply at the transition frequencies.

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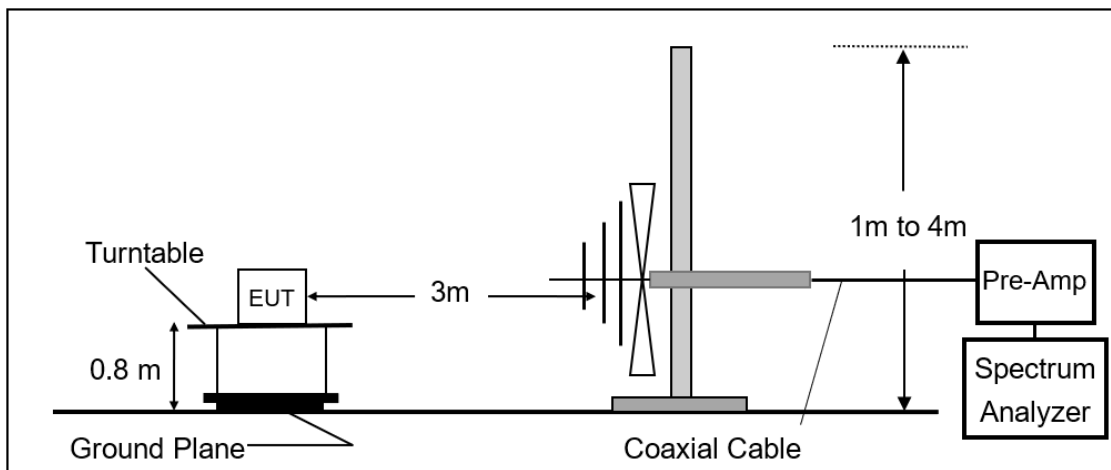
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11.2 Test Setup

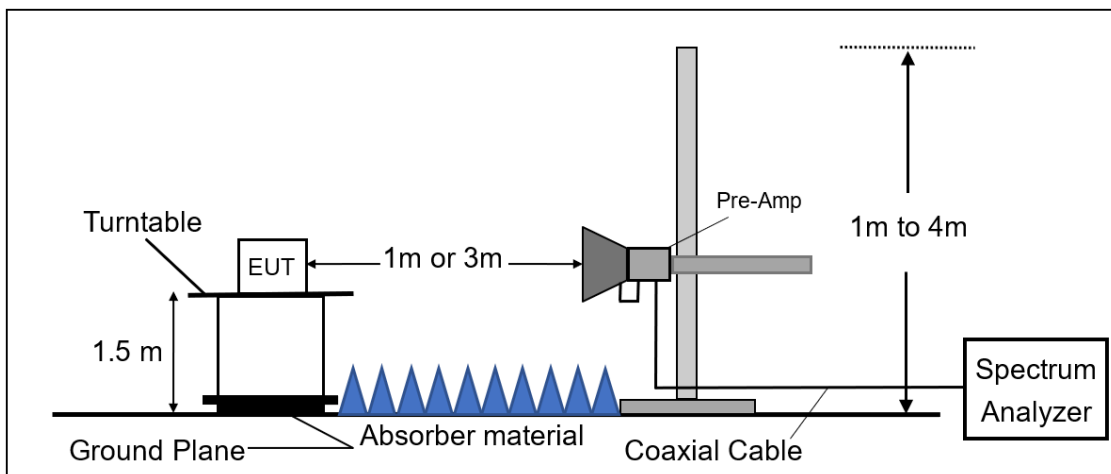
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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11.3 Measurement Procedure

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

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11.4 Field Strength Calculation

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

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

Where *FS* = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

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

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

Factor(dB) = Antenna Factor(dBuV/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) & RSS-GEN §6.13.2 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 :TERF2410003019E2

Test Site :SAC G Chamber

Operation Mode :802.11b

Test Date :2024-11-18

Test Frequency :2412 MHz

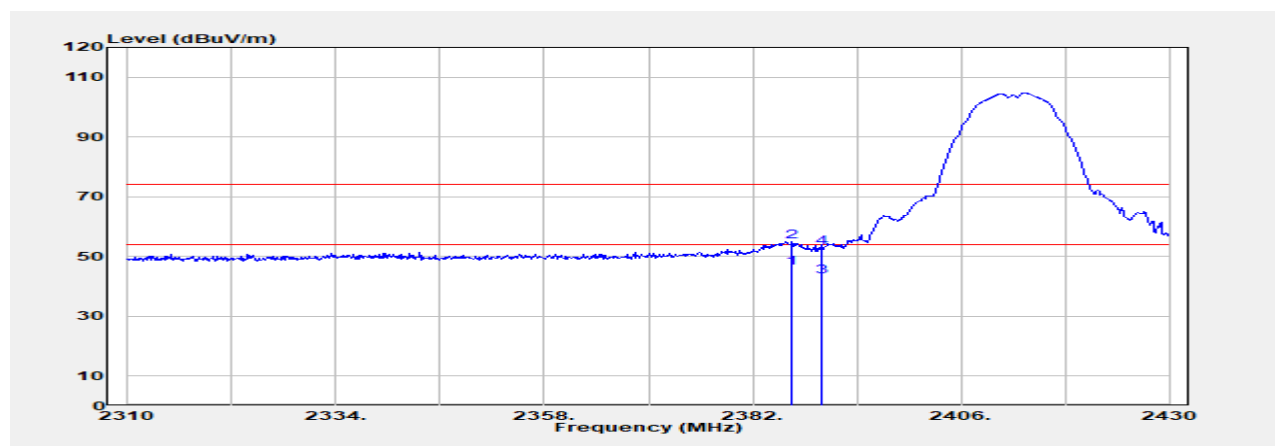
Temp./Humi. :21.1°C/66%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Jacky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2386.560	Average	49.31	-3.16	46.15	54.00	-7.85
2386.560	Peak	58.08	-3.16	54.92	74.00	-19.08
2390.000	Average	46.51	-3.12	43.39	54.00	-10.61
2390.000	Peak	56.11	-3.12	52.99	74.00	-21.01

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Report Number :TERF2410003019E2

Operation Mode :802.11b

Test Frequency :2412 MHz

Test Mode :Bandedge

EUT Pol :E2 Plane

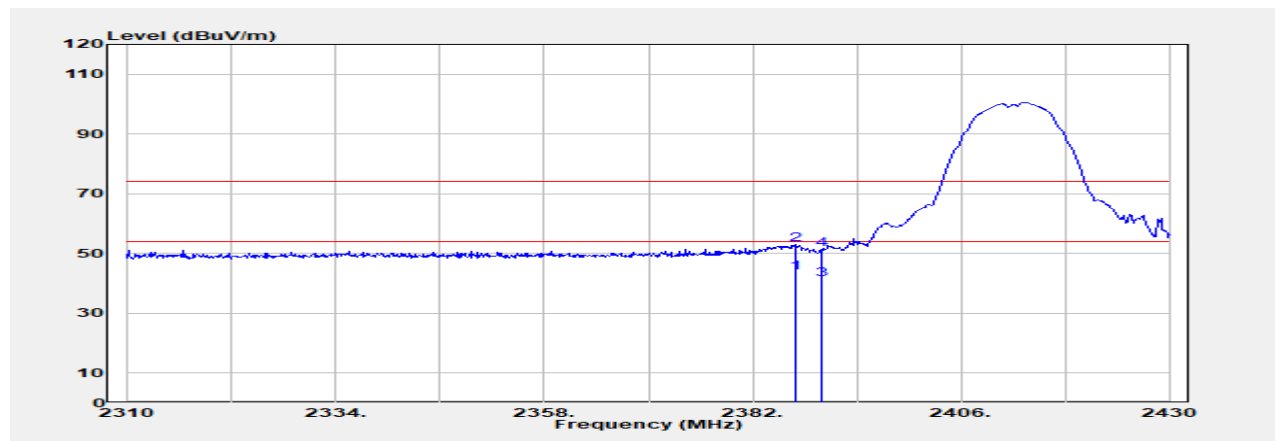
Test Site :SAC G Chamber

Test Date :2024-11-18

Temp./Humi. :21.1°C/66%

Antenna Pol. :Horizontal

Engineer :Jacky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2386.920	Average	46.66	-3.16	43.50	54.00	-10.50
2386.920	Peak	56.02	-3.16	52.86	74.00	-21.14
2390.000	Average	44.44	-3.12	41.32	54.00	-12.68
2390.000	Peak	54.54	-3.12	51.42	74.00	-22.58

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Report Number :TERF2410003019E2

Operation Mode :802.11b

Test Frequency :2462 MHz

Test Mode :Bandedge

EUT Pol :E2 Plane

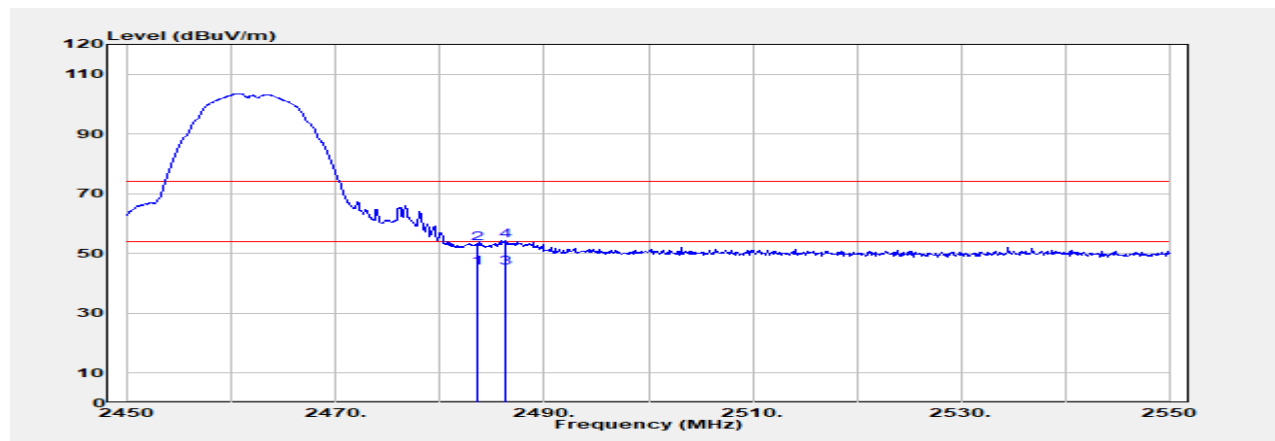
Test Site :SAC G Chamber

Test Date :2024-11-18

Temp./Humi. :21.1°C/66%

Antenna Pol. :Vertical

Engineer :Jacky Chen



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	48.42	-3.37	45.05	54.00	-8.95
2483.500	Peak	56.63	-3.37	53.26	74.00	-20.74
2486.200	Average	48.50	-3.37	45.13	54.00	-8.87
2486.200	Peak	57.66	-3.37	54.29	74.00	-19.71

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Report Number :TERF2410003019E2

Operation Mode :802.11b

Test Frequency :2462 MHz

Test Mode :Bandedge

EUT Pol :E2 Plane

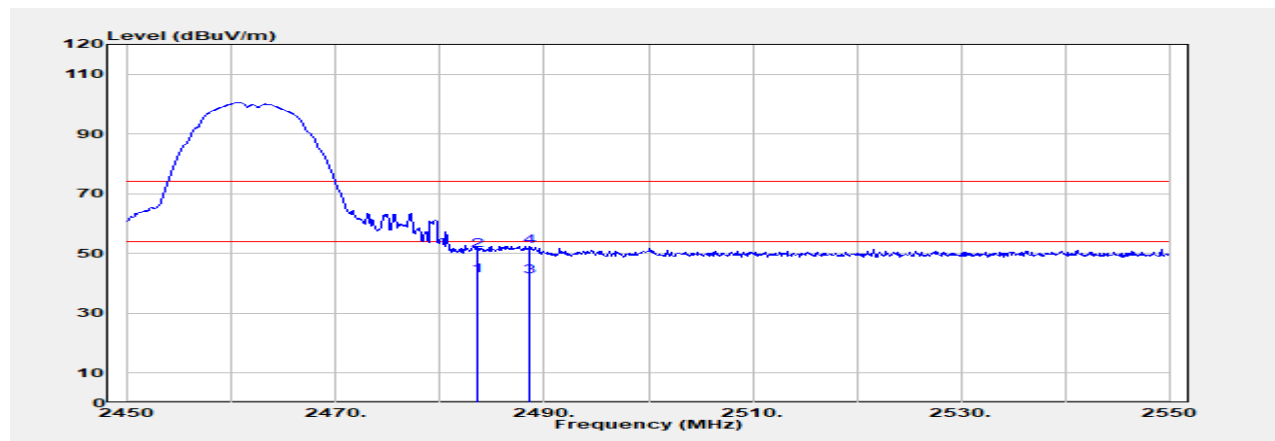
Test Site :SAC G Chamber

Test Date :2024-11-18

Temp./Humi. :21.1°C/66%

Antenna Pol. :Horizontal

Engineer :Jacky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	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	46.03	-3.37	42.66	54.00	-11.34
2483.500	Peak	54.51	-3.37	51.14	74.00	-22.86
2488.600	Average	45.73	-3.37	42.36	54.00	-11.64
2488.600	Peak	55.88	-3.37	52.51	74.00	-21.49

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Report Number :TERF2410003019E2

Test Site :SAC G Chamber

Operation Mode :802.11g

Test Date :2024-11-26

Test Frequency :2412 MHz

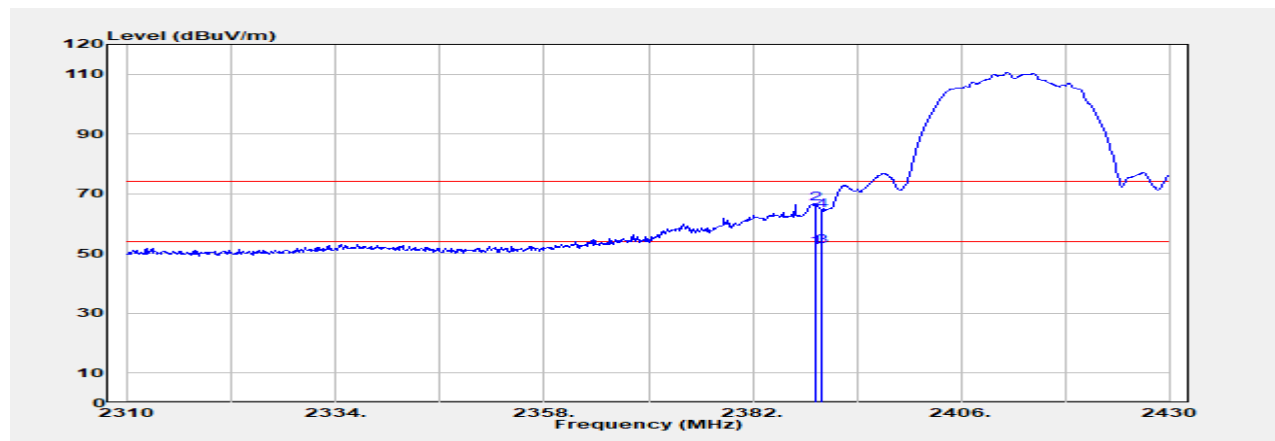
Temp./Humi. :24.2°C/54%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Jacky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2389.320	Average	55.18	-3.13	52.05	54.00	-1.95
2389.320	Peak	69.78	-3.13	66.65	74.00	-7.35
2390.000	Average	55.60	-3.12	52.48	54.00	-1.52
2390.000	Peak	67.37	-3.12	64.25	74.00	-9.75

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Report Number :TERF2410003019E2

Operation Mode :802.11g

Test Frequency :2412 MHz

Test Mode :Bandedge

EUT Pol :E2 Plane

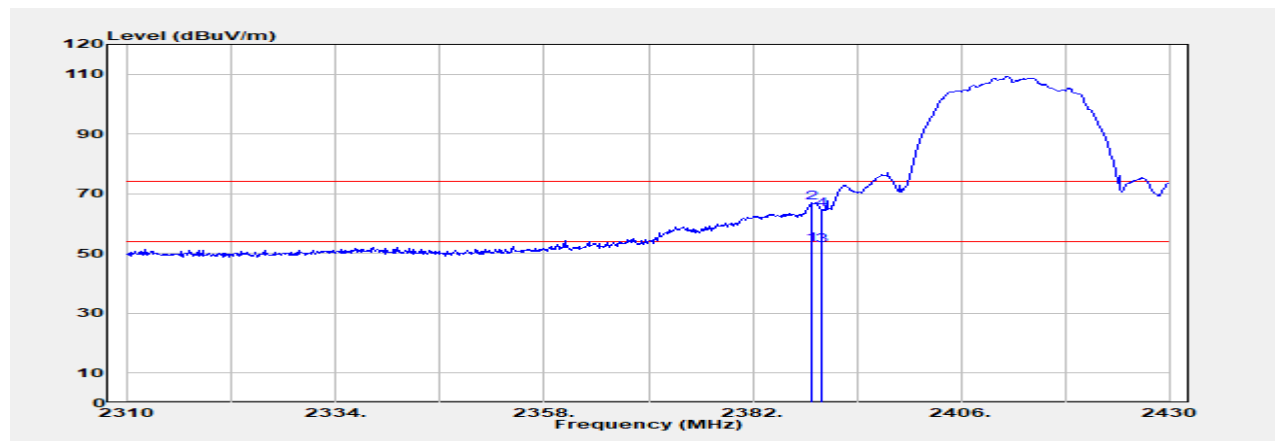
Test Site :SAC G Chamber

Test Date :2024-11-26

Temp./Humi. :24.2°C/54%

Antenna Pol. :Horizontal

Engineer :Jacky Chen



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	56.14	-3.13	53.01	54.00	-0.99
2388.840	Peak	70.07	-3.13	66.94	74.00	-7.06
2390.000	Average	55.66	-3.12	52.54	54.00	-1.46
2390.000	Peak	67.87	-3.12	64.75	74.00	-9.25

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Report Number :TERF2410003019E2

Test Site :SAC G Chamber

Operation Mode :802.11g

Test Date :2024-11-26

Test Frequency :2462 MHz

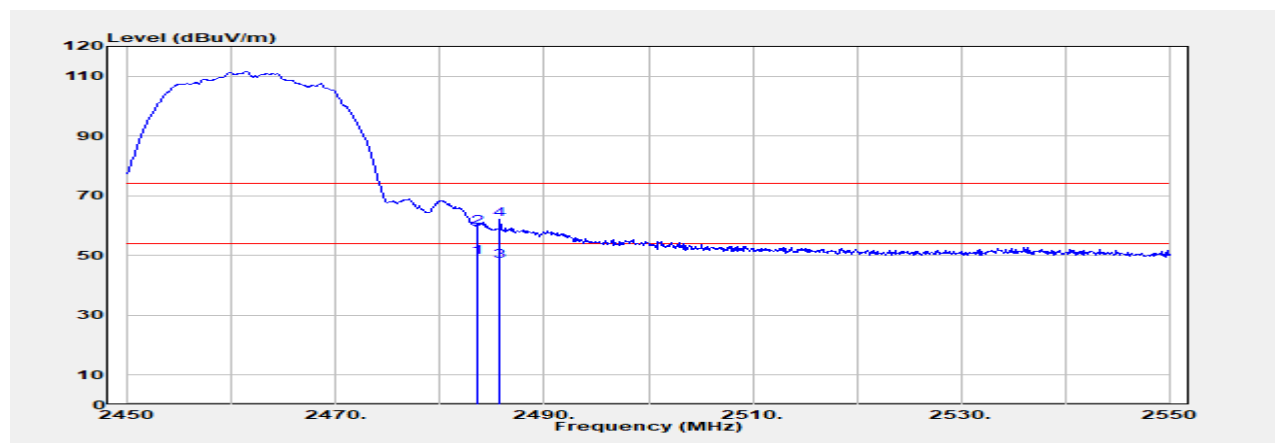
Temp./Humi. :24.2°C/54%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Jacky Chen



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	52.88	-3.37	49.51	54.00	-4.49
2483.500	Peak	63.02	-3.37	59.65	74.00	-14.35
2485.700	Average	51.38	-3.37	48.01	54.00	-5.99
2485.700	Peak	65.57	-3.37	62.20	74.00	-11.80

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Report Number :TERF2410003019E2

Operation Mode :802.11g

Test Frequency :2462 MHz

Test Mode :Bandedge

EUT Pol :E2 Plane

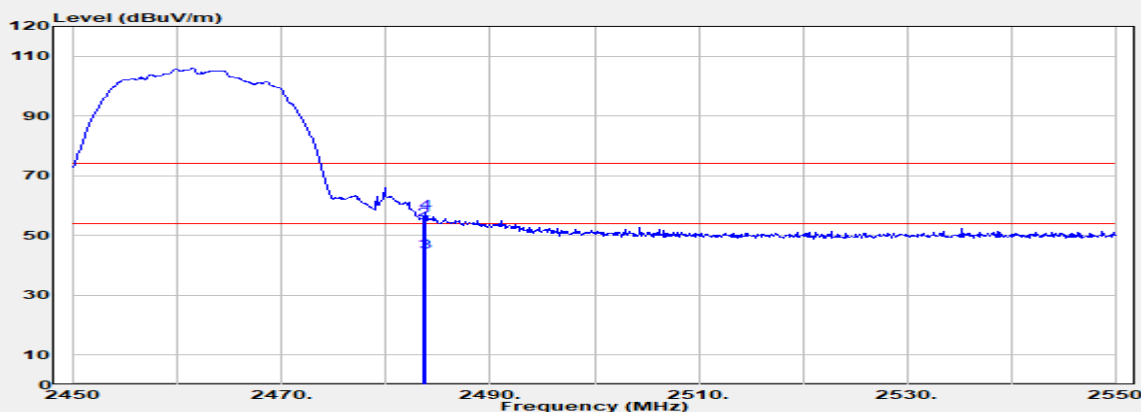
Test Site :SAC G Chamber

Test Date :2024-11-26

Temp./Humi. :24.2°C/54%

Antenna Pol. :Horizontal

Engineer :Jacky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	48.17	-3.37	44.80	54.00	-9.20
2483.500	Peak	58.72	-3.37	55.35	74.00	-18.65
2483.800	Average	48.06	-3.37	44.69	54.00	-9.31
2483.800	Peak	61.41	-3.37	58.04	74.00	-15.96

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Report Number :TERF2410003019E2

Operation Mode :802.11n20

Test Frequency :2412 MHz

Test Mode :Bandedge

EUT Pol :E2 Plane

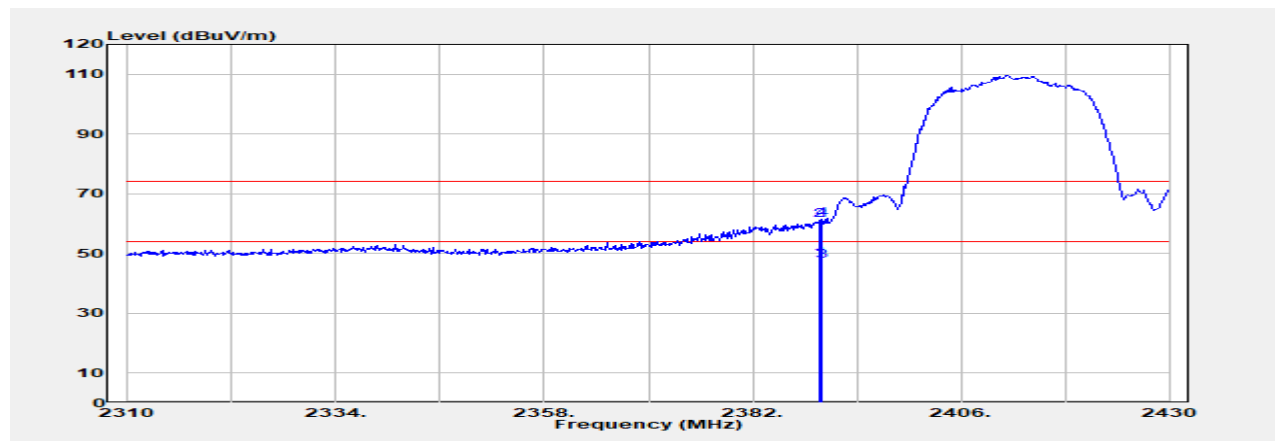
Test Site :SAC G Chamber

Test Date :2024-11-26

Temp./Humi. :24.2°C/54%

Antenna Pol. :Vertical

Engineer :Jacky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2389.680	Average	51.31	-3.13	48.19	54.00	-5.81
2389.680	Peak	64.24	-3.13	61.11	74.00	-12.89
2390.000	Average	50.64	-3.12	47.52	54.00	-6.48
2390.000	Peak	64.56	-3.12	61.44	74.00	-12.56

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Report Number :TERF2410003019E2

Operation Mode :802.11n20

Test Frequency :2412 MHz

Test Mode :Bandedge

EUT Pol :E2 Plane

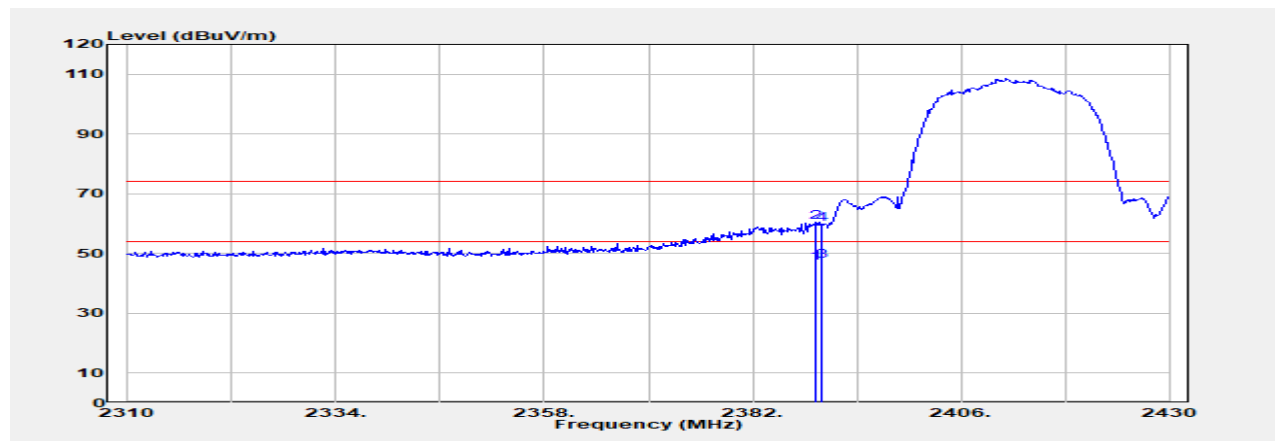
Test Site :SAC G Chamber

Test Date :2024-11-26

Temp./Humi. :24.2°C/54%

Antenna Pol. :Horizontal

Engineer :Jacky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2389.200	Average	49.94	-3.13	46.81	54.00	-7.19
2389.200	Peak	63.72	-3.13	60.59	74.00	-13.41
2390.000	Average	50.52	-3.12	47.40	54.00	-6.60
2390.000	Peak	62.86	-3.12	59.74	74.00	-14.26

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Report Number :TERF2410003019E2

Test Site :SAC G Chamber

Operation Mode :802.11n20

Test Date :2024-11-18

Test Frequency :2462 MHz

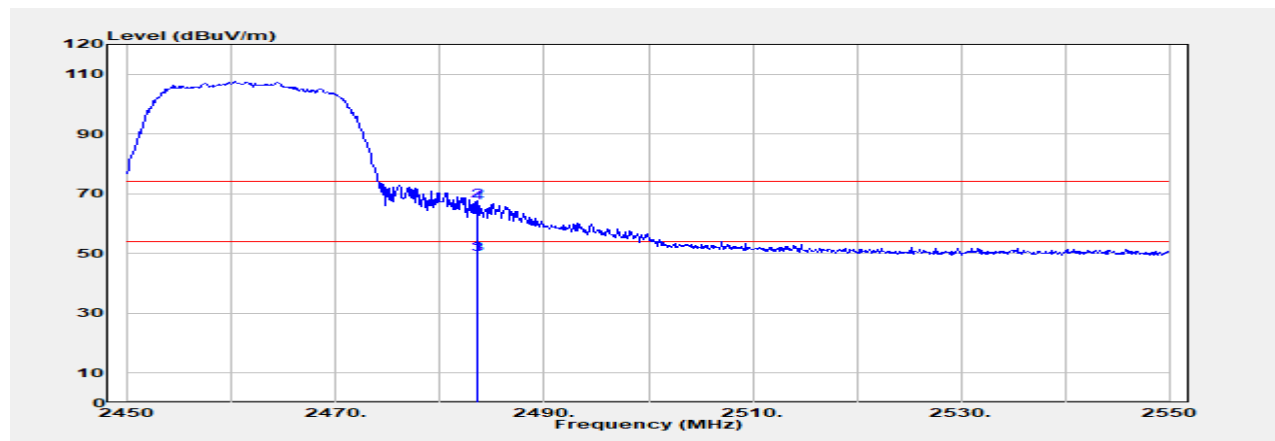
Temp./Humi. :21.1°C/66%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Jacky Chen



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	52.97	-3.37	49.60	54.00	-4.40
2483.500	Peak	70.93	-3.37	67.56	74.00	-6.44
2483.600	Average	52.98	-3.37	49.62	54.00	-4.38
2483.600	Peak	70.46	-3.37	67.09	74.00	-6.91

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Report Number :TERF2410003019E2

Operation Mode :802.11n20

Test Frequency :2462 MHz

Test Mode :Bandedge

EUT Pol :E2 Plane

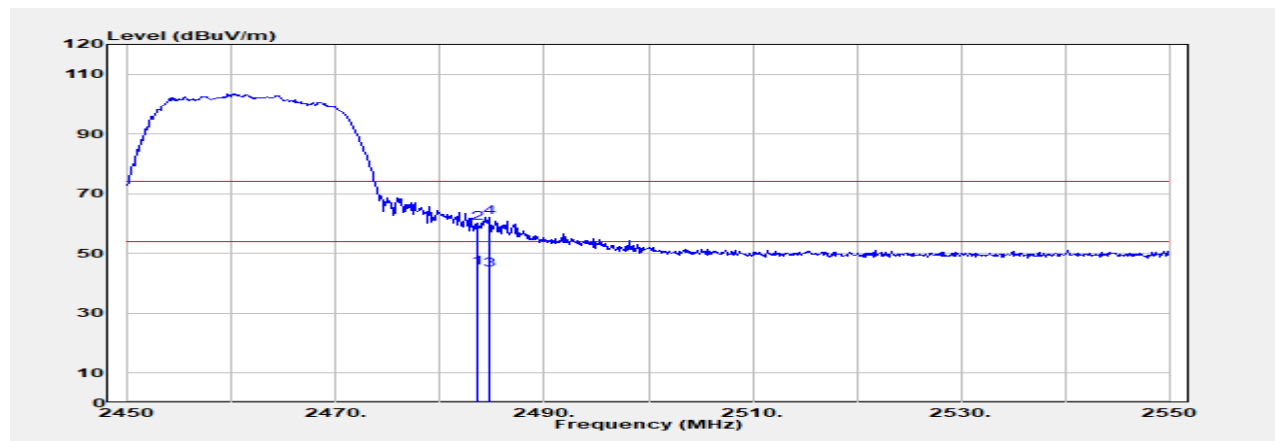
Test Site :SAC G Chamber

Test Date :2024-11-18

Temp./Humi. :21.1°C/66%

Antenna Pol. :Horizontal

Engineer :Jacky Chen



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	48.69	-3.37	45.32	54.00	-8.68
2483.500	Peak	63.63	-3.37	60.27	74.00	-13.73
2484.800	Average	48.06	-3.37	44.70	54.00	-9.30
2484.800	Peak	65.52	-3.37	62.15	74.00	-11.85

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Report Number :TERF2410003019E2

Operation Mode :802.11ax20

Test Frequency :2412 MHz

Test Mode :Bandedge

EUT Pol :E2 Plane

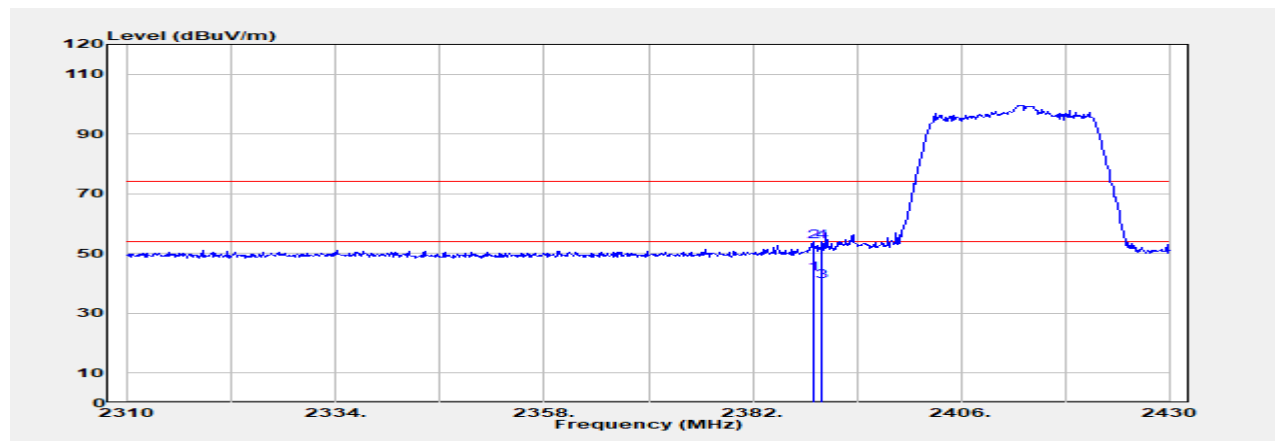
Test Site :SAC G Chamber

Test Date :2024-11-26

Temp./Humi. :24.2°C/54%

Antenna Pol. :Vertical

Engineer :Jacky Chen



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	46.24	-3.13	43.11	54.00	-10.89
2388.960	Peak	57.09	-3.13	53.95	74.00	-20.05
2390.000	Average	43.73	-3.12	40.61	54.00	-13.39
2390.000	Peak	57.15	-3.12	54.03	74.00	-19.97

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Report Number :TERF2410003019E2

Operation Mode :802.11ax20

Test Frequency :2412 MHz

Test Mode :Bandedge

EUT Pol :E2 Plane

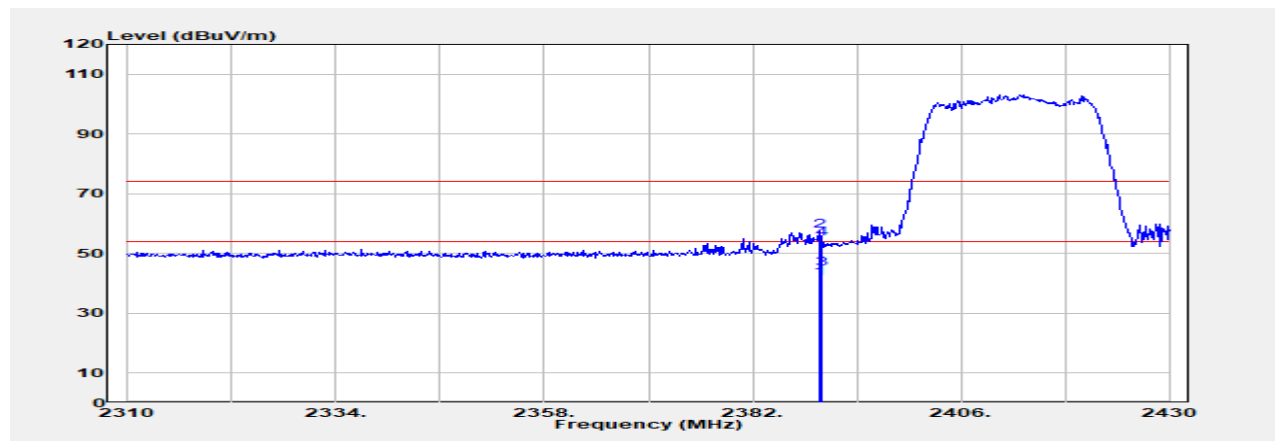
Test Site :SAC G Chamber

Test Date :2024-11-26

Temp./Humi. :24.2°C/54%

Antenna Pol. :Horizontal

Engineer :Jacky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2389.800	Average	44.68	-3.12	41.56	54.00	-12.44
2389.800	Peak	60.69	-3.12	57.56	74.00	-16.44
2390.000	Average	47.89	-3.12	44.77	54.00	-9.23
2390.000	Peak	58.16	-3.12	55.04	74.00	-18.96

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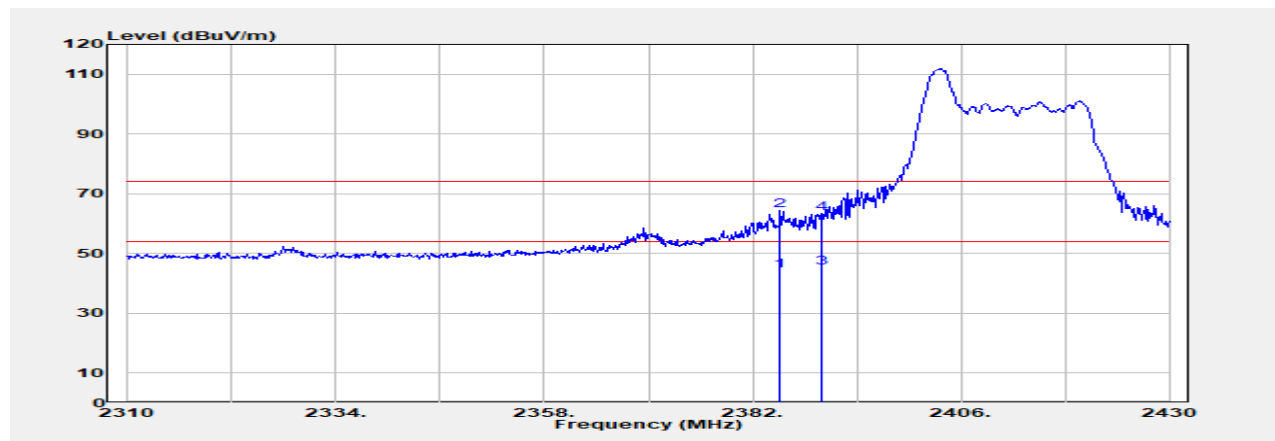
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Report Number :TERF2410003019E2
Operation Mode :802.11ax20 RU26/0
Test Frequency :2412 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2024-11-21
Temp./Humi. :23.7°C/60%
Antenna Pol. :Vertical
Engineer :Jacky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2385.120	Average	47.34	-3.18	44.16	54.00	-9.84
2385.120	Peak	67.46	-3.18	64.28	74.00	-9.72
2390.000	Average	48.23	-3.12	45.11	54.00	-8.89
2390.000	Peak	66.61	-3.12	63.49	74.00	-10.51

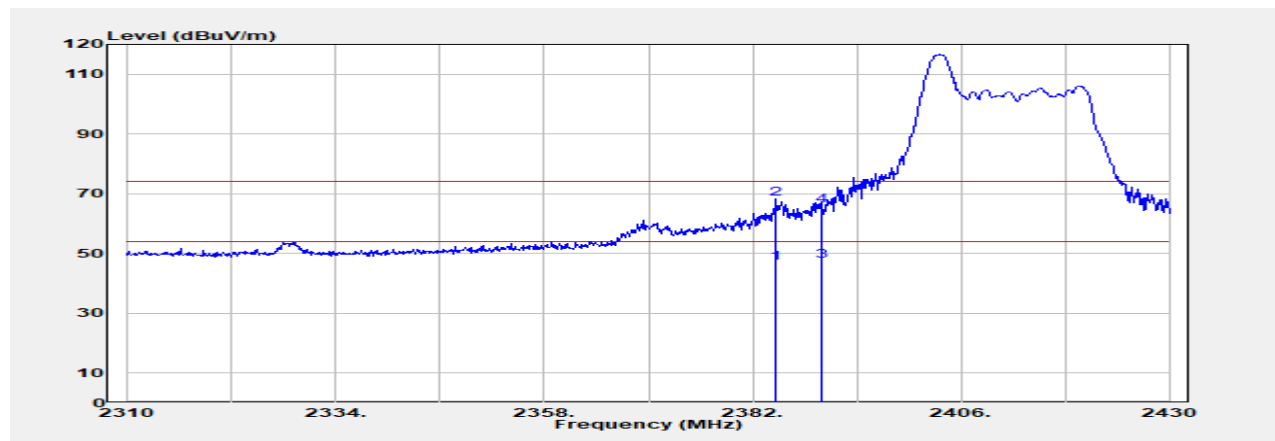
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Report Number :TERF2410003019E2
Operation Mode :802.11ax20 RU26/0
Test Frequency :2412 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2024-11-21
Temp./Humi. :23.7°C/60%
Antenna Pol. :Horizontal
Engineer :Jacky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2384.760	Average	49.93	-3.18	46.75	54.00	-7.25
2384.760	Peak	71.51	-3.18	68.33	74.00	-5.67
2390.000	Average	50.72	-3.12	47.60	54.00	-6.40
2390.000	Peak	69.23	-3.12	66.11	74.00	-7.89

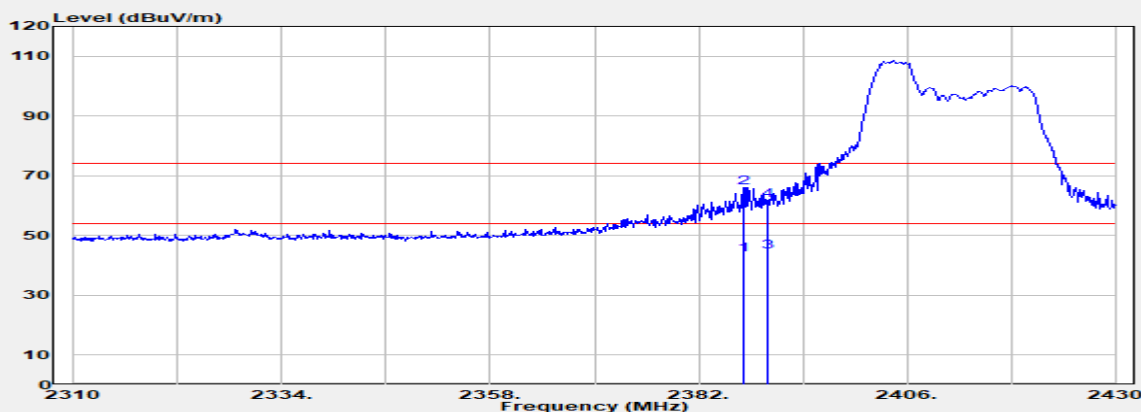
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Report Number :TERF2410003019E2
Operation Mode :802.11ax20 RU52/37
Test Frequency :2412 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2024-11-21
Temp./Humi. :23.7°C/60%
Antenna Pol. :Vertical
Engineer :Jacky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2387.160	Average	46.71	-3.15	43.56	54.00	-10.44
2387.160	Peak	69.23	-3.15	66.08	74.00	-7.92
2390.000	Average	47.69	-3.12	44.56	54.00	-9.44
2390.000	Peak	64.88	-3.12	61.76	74.00	-12.24

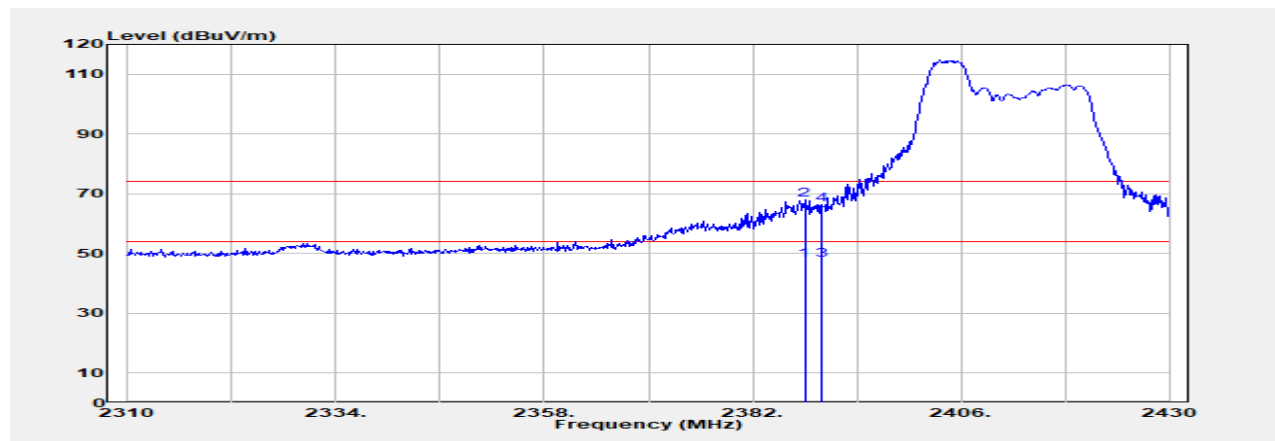
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Report Number :TERF2410003019E2
Operation Mode :802.11ax20 RU52/37
Test Frequency :2412 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2024-11-21
Temp./Humi. :23.7°C/60%
Antenna Pol. :Horizontal
Engineer :Jacky Chen



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	50.88	-3.14	47.73	54.00	-6.27
2388.000	Peak	71.03	-3.14	67.89	74.00	-6.11
2390.000	Average	51.08	-3.12	47.96	54.00	-6.04
2390.000	Peak	69.57	-3.12	66.45	74.00	-7.55

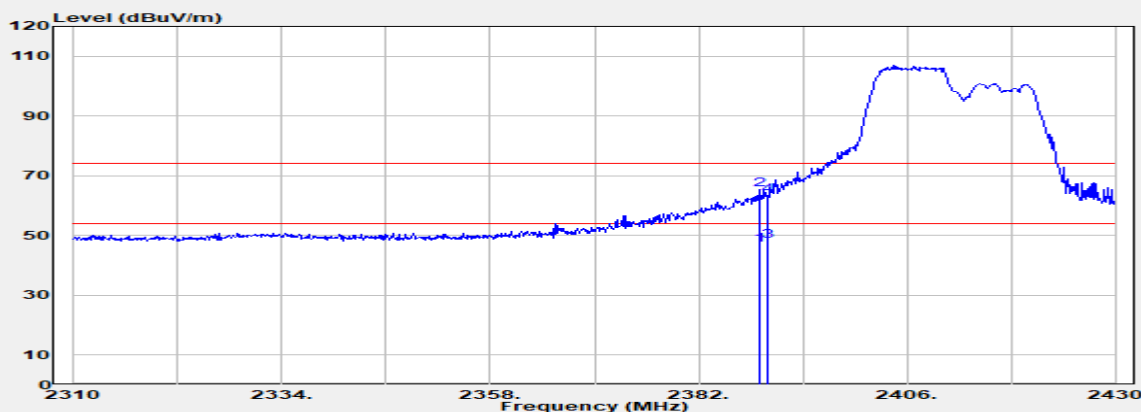
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Report Number :TERF2410003019E2
Operation Mode :802.11ax20 RU106/53
Test Frequency :2412 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2024-11-21
Temp./Humi. :23.7°C/60%
Antenna Pol. :Vertical
Engineer :Jacky Chen



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	50.02	-3.13	46.88	54.00	-7.12
2388.960	Peak	68.53	-3.13	65.39	74.00	-8.61
2390.000	Average	51.23	-3.12	48.11	54.00	-5.89
2390.000	Peak	66.55	-3.12	63.43	74.00	-10.57

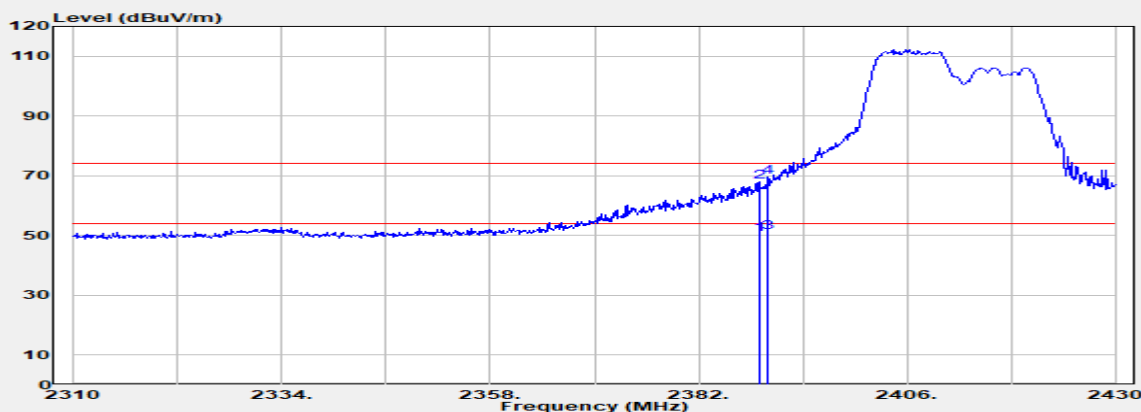
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Report Number :TERF2410003019E2
Operation Mode :802.11ax20 RU106/53
Test Frequency :2412 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2024-11-21
Temp./Humi. :23.7°C/60%
Antenna Pol. :Horizontal
Engineer :Jacky Chen



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	53.55	-3.13	50.41	54.00	-3.59
2388.960	Peak	71.22	-3.13	68.09	74.00	-5.91
2390.000	Average	54.34	-3.12	51.22	54.00	-2.78
2390.000	Peak	72.82	-3.12	69.70	74.00	-4.30

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Report Number :TERF2410003019E2

Test Site :SAC G Chamber

Operation Mode :802.11ax20

Test Date :2024-11-18

Test Frequency :2462 MHz

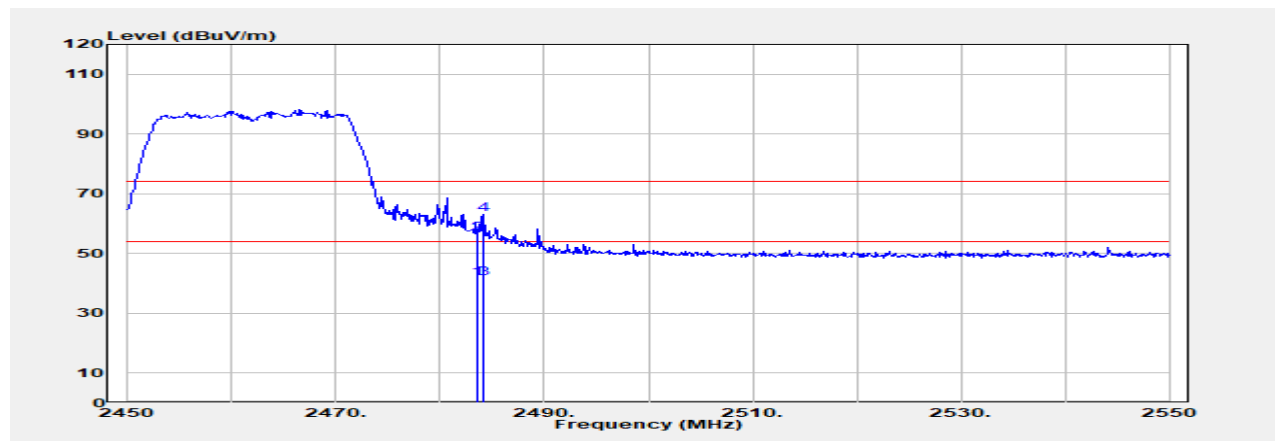
Temp./Humi. :21.1°C/66%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Jacky Chen



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	44.91	-3.37	41.54	54.00	-12.46
2483.500	Peak	59.96	-3.37	56.59	74.00	-17.41
2484.200	Average	45.09	-3.37	41.72	54.00	-12.28
2484.200	Peak	66.33	-3.37	62.96	74.00	-11.04

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Report Number :TERF2410003019E2

Test Site :SAC G Chamber

Operation Mode :802.11ax20

Test Date :2024-11-18

Test Frequency :2462 MHz

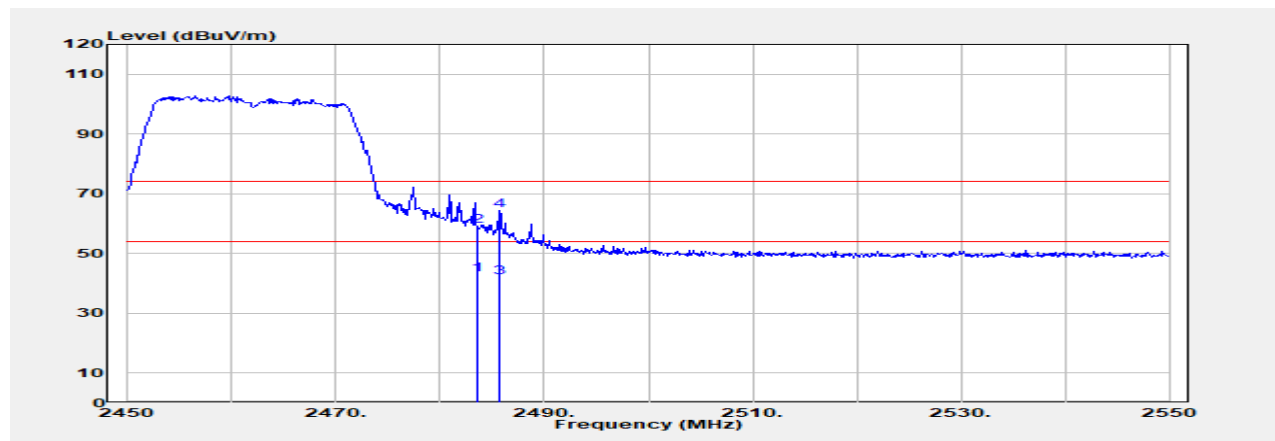
Temp./Humi. :21.1°C/66%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Jacky Chen



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	46.14	-3.37	42.77	54.00	-11.23
2483.500	Peak	62.47	-3.37	59.11	74.00	-14.89
2485.700	Average	45.27	-3.37	41.90	54.00	-12.10
2485.700	Peak	67.79	-3.37	64.42	74.00	-9.58

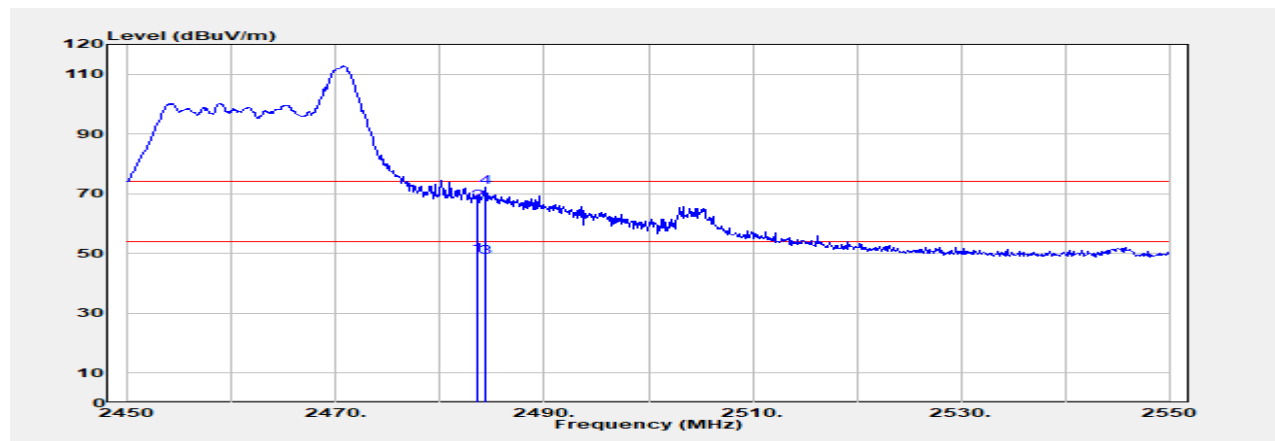
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Report Number :TERF2410003019E2
Operation Mode :802.11ax20 RU26/8
Test Frequency :2462 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2024-11-21
Temp./Humi. :23.7°C/60%
Antenna Pol. :Vertical
Engineer :Jacky Chen



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	52.66	-3.37	49.29	54.00	-4.71
2483.500	Peak	70.83	-3.37	67.47	74.00	-6.53
2484.300	Average	52.16	-3.37	48.79	54.00	-5.21
2484.300	Peak	75.66	-3.37	72.29	74.00	-1.71

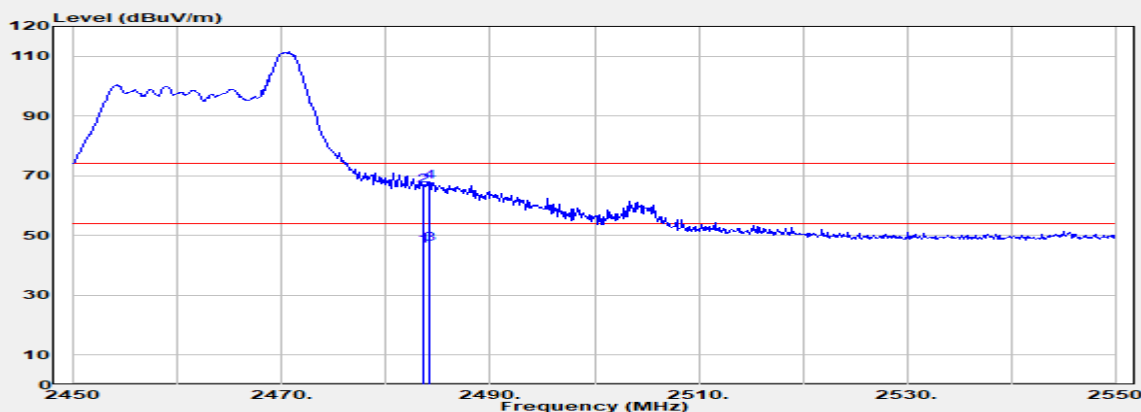
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Report Number :TERF2410003019E2
Operation Mode :802.11ax20 RU26/8
Test Frequency :2462 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2024-11-21
Temp./Humi. :23.7°C/60%
Antenna Pol. :Horizontal
Engineer :Jacky Chen



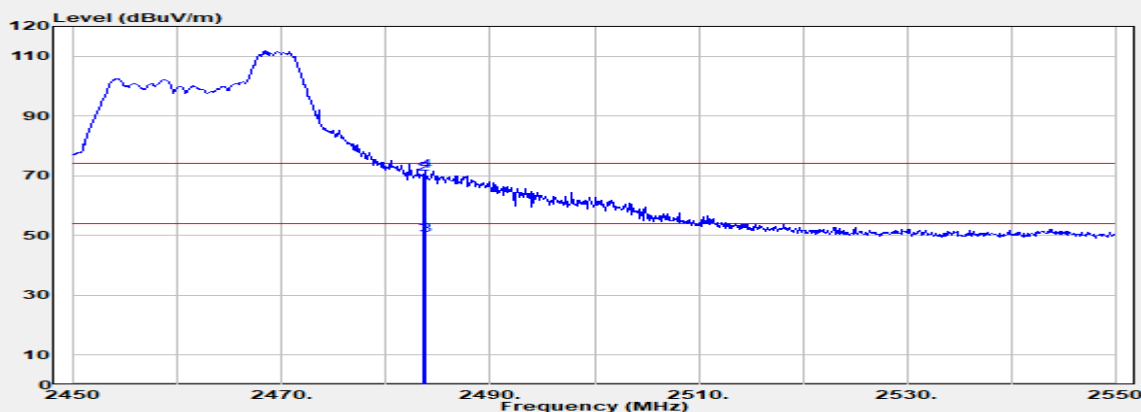
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.500	Average	49.99	-3.37	46.62	54.00	-7.38
2483.500	Peak	70.05	-3.37	66.68	74.00	-7.32
2484.100	Average	50.38	-3.37	47.01	54.00	-6.99
2484.100	Peak	71.43	-3.37	68.06	74.00	-5.94

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Report Number :TERF2410003019E2
Operation Mode :802.11ax20 RU52/40
Test Frequency :2462 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2024-11-21
Temp./Humi. :23.7°C/60%
Antenna Pol. :Vertical
Engineer :Jacky Chen



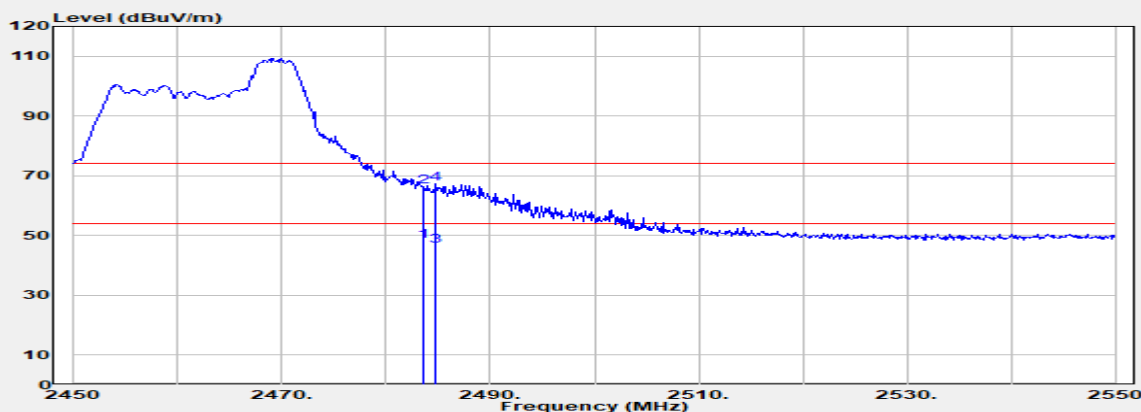
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AVG	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.500	Average	53.93	-3.37	50.56	54.00	-3.44
2483.500	Peak	73.84	-3.37	70.47	74.00	-3.53
2483.800	Average	53.37	-3.37	50.00	54.00	-4.00
2483.800	Peak	74.94	-3.37	71.57	74.00	-2.43

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Report Number :TERF2410003019E2
Operation Mode :802.11ax20 RU52/40
Test Frequency :2462 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2024-11-21
Temp./Humi. :23.7°C/60%
Antenna Pol. :Horizontal
Engineer :Jacky Chen



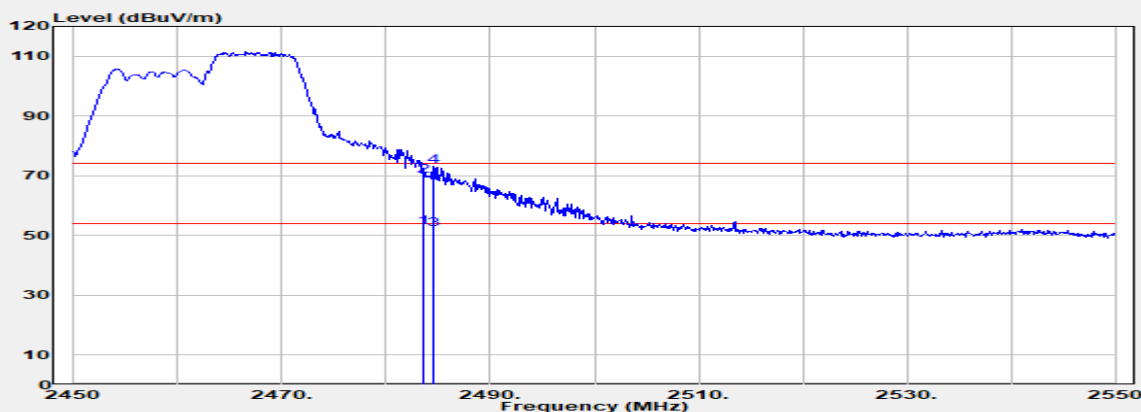
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	51.37	-3.37	48.00	54.00	-6.00
2483.500	Peak	69.65	-3.37	66.28	74.00	-7.72
2484.800	Average	49.82	-3.37	46.46	54.00	-7.54
2484.800	Peak	70.57	-3.37	67.20	74.00	-6.80

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Report Number :TERF2410003019E2
Operation Mode :802.11ax20 RU106/54
Test Frequency :2462 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2024-11-26
Temp./Humi. :24.2°C/54%
Antenna Pol. :Vertical
Engineer :Jacky Chen



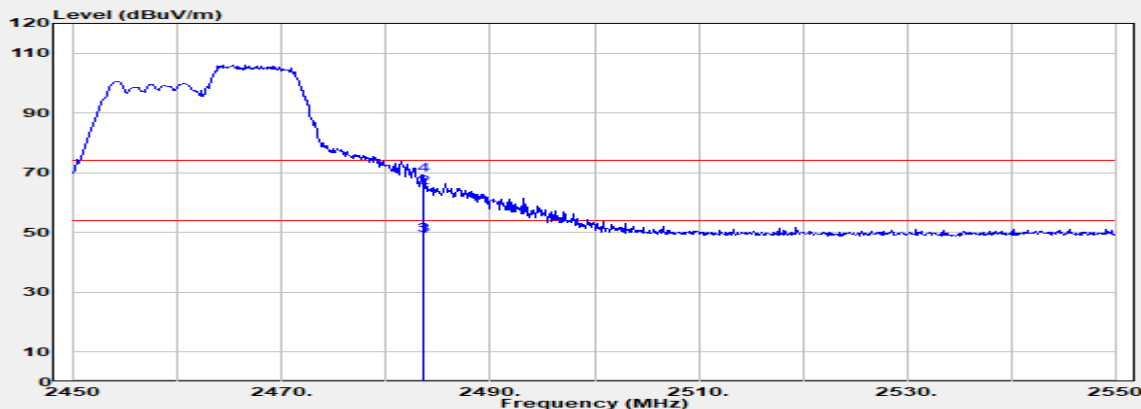
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	56.13	-3.37	52.76	54.00	-1.24
2483.500	Peak	73.45	-3.37	70.08	74.00	-3.92
2484.500	Average	55.29	-3.37	51.92	54.00	-2.08
2484.500	Peak	76.40	-3.37	73.03	74.00	-0.97

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Report Number :TERF2410003019E2
Operation Mode :802.11ax20 RU106/54
Test Frequency :2462 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2024-11-26
Temp./Humi. :24.2°C/54%
Antenna Pol. :Horizontal
Engineer :Jacky Chen



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	52.10	-3.37	48.73	54.00	-5.27
2483.500	Peak	68.39	-3.37	65.02	74.00	-8.98
2483.600	Average	52.55	-3.37	49.18	54.00	-4.82
2483.600	Peak	72.50	-3.37	69.13	74.00	-4.87

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11.6.2 Spurious Emission:

Report Number :TERF2410003019E2

Test Site :SAC G Chamber

Operation Mode :802.11g

Test Date :2024-11-26

Test Frequency :2437 MHz

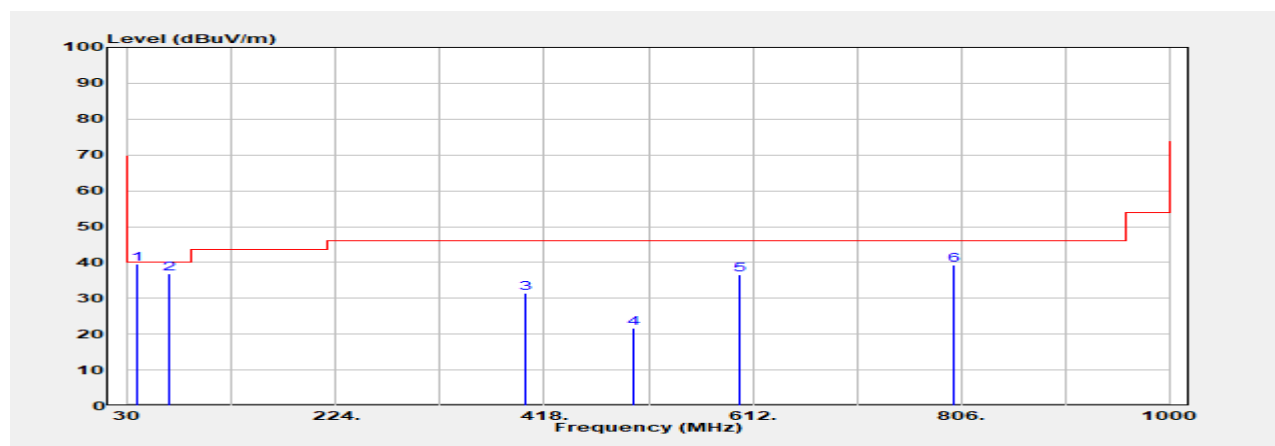
Temp./Humi. :24.2°C/54%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Jacky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Reading Level		FS	@3m		
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
37.760	QP	53.40	-13.83	39.57	40.00	-0.43
67.830	QP	51.00	-14.14	36.86	40.00	-3.14
399.570	Peak	40.61	-9.28	31.32	46.00	-14.68
500.450	QP	29.00	-7.30	21.70	46.00	-24.30
600.360	Peak	41.15	-4.54	36.61	46.00	-9.39
800.180	Peak	40.69	-1.52	39.17	46.00	-6.83

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Report Number :TERF2410003019E2

Operation Mode :802.11g

Test Frequency :2437 MHz

Test Mode :Tx

EUT Pol :E2 Plane

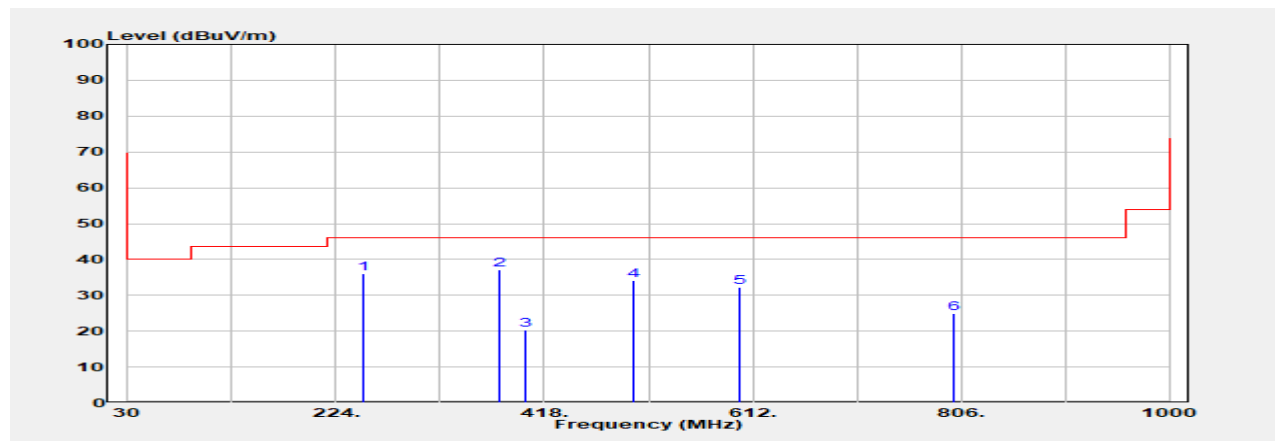
Test Site :SAC G Chamber

Test Date :2024-11-26

Temp./Humi. :24.2°C/54%

Antenna Pol. :Horizontal

Engineer :Jacky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
249.220	QP	50.00	-14.04	35.96	46.00	-10.04
375.320	Peak	47.05	-9.90	37.14	46.00	-8.86
399.570	QP	29.70	-9.28	20.42	46.00	-25.58
500.450	Peak	41.40	-7.30	34.10	46.00	-11.90
600.360	Peak	36.79	-4.54	32.25	46.00	-13.75
800.180	QP	26.40	-1.52	24.88	46.00	-21.12

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Report Number :TERF2410003019E2

Operation Mode :802.11b

Test Frequency :2412 MHz

Test Mode :Tx

EUT Pol :E2 Plane

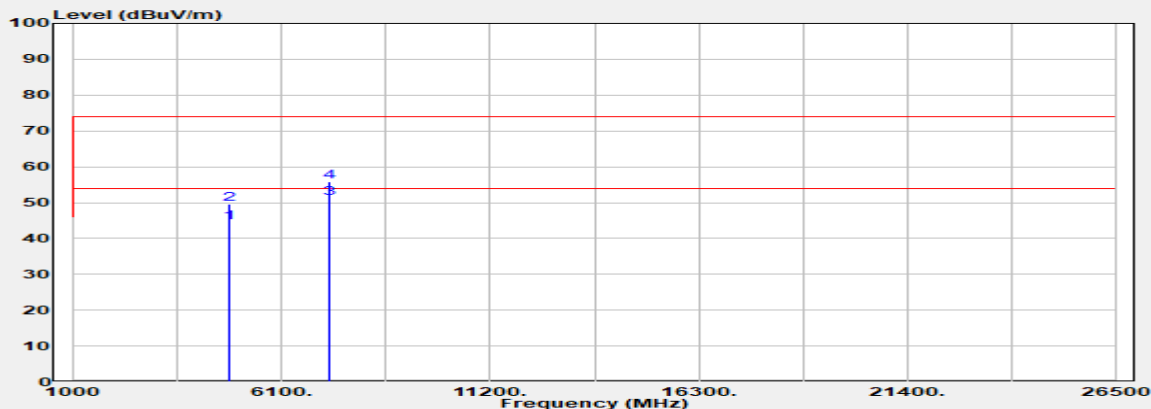
Test Site :SAC G Chamber

Test Date :2024-11-21

Temp./Humi. :23.7°C/60%

Antenna Pol. :Vertical

Engineer :Jacky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	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	40.94	3.54	44.49	54.00	-9.51
4824.000	Peak	46.16	3.54	49.70	74.00	-24.30
7236.000	Average	41.76	9.40	51.16	54.00	-2.84
7236.000	Peak	46.48	9.40	55.88	74.00	-18.12

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Report Number :TERF2410003019E2

Operation Mode :802.11b

Test Frequency :2412 MHz

Test Mode :Tx

EUT Pol :E2 Plane

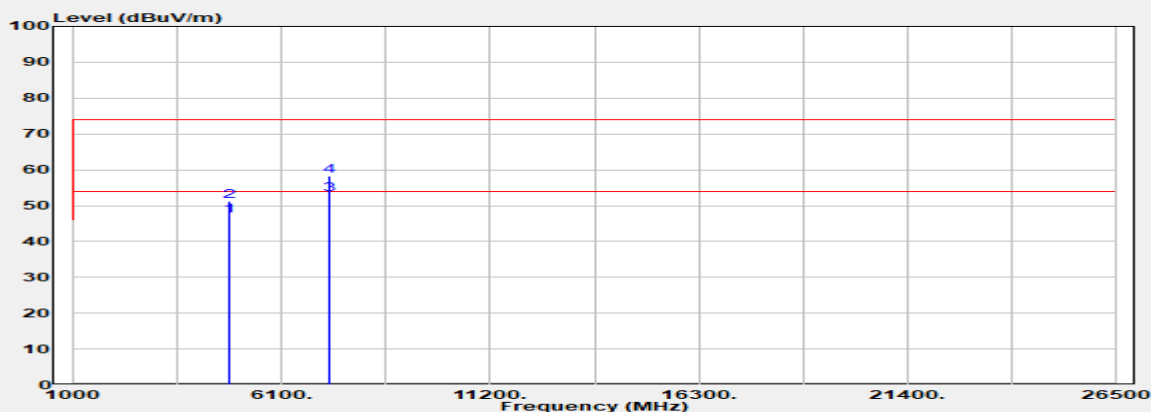
Test Site :SAC G Chamber

Test Date :2024-11-21

Temp./Humi. :23.7°C/60%

Antenna Pol. :Horizontal

Engineer :Jacky Chen



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	43.58	3.54	47.13	54.00	-6.87
4824.000	Peak	47.72	3.54	51.27	74.00	-22.73
7236.000	Average	43.71	9.40	53.10	54.00	-0.90
7236.000	Peak	48.79	9.40	58.19	74.00	-15.81

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Report Number :TERF2410003019E2

Operation Mode :802.11b

Test Frequency :2437 MHz

Test Mode :Tx

EUT Pol :E2 Plane

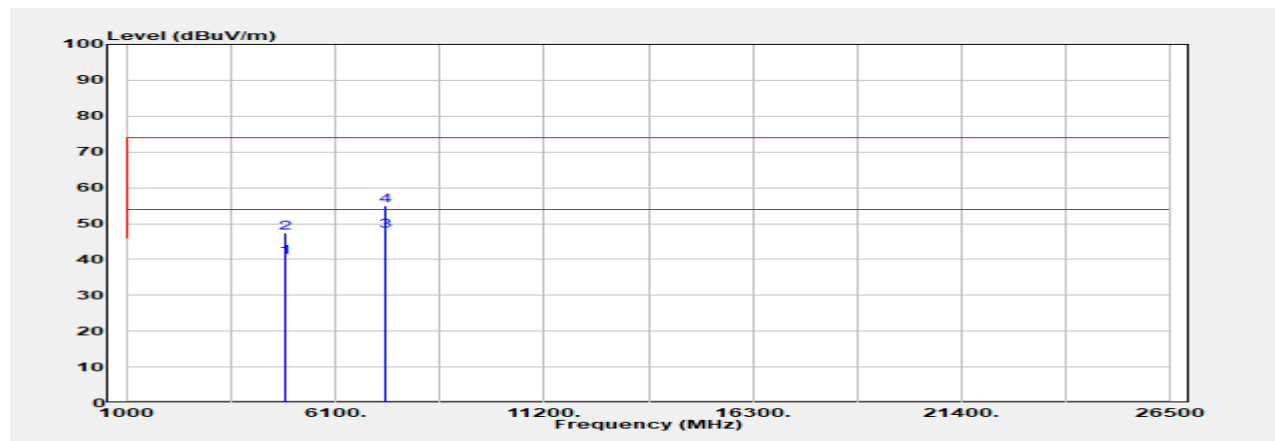
Test Site :SAC G Chamber

Test Date :2024-11-21

Temp./Humi. :23.7°C/60%

Antenna Pol. :Vertical

Engineer :Jacky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4874.000	Average	36.87	3.80	40.66	54.00	-13.34
4874.000	Peak	43.64	3.80	47.43	74.00	-26.57
7311.000	Average	38.20	9.69	47.89	54.00	-6.11
7311.000	Peak	45.30	9.69	54.99	74.00	-19.01

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Report Number :TERF2410003019E2

Operation Mode :802.11b

Test Frequency :2437 MHz

Test Mode :Tx

EUT Pol :E2 Plane

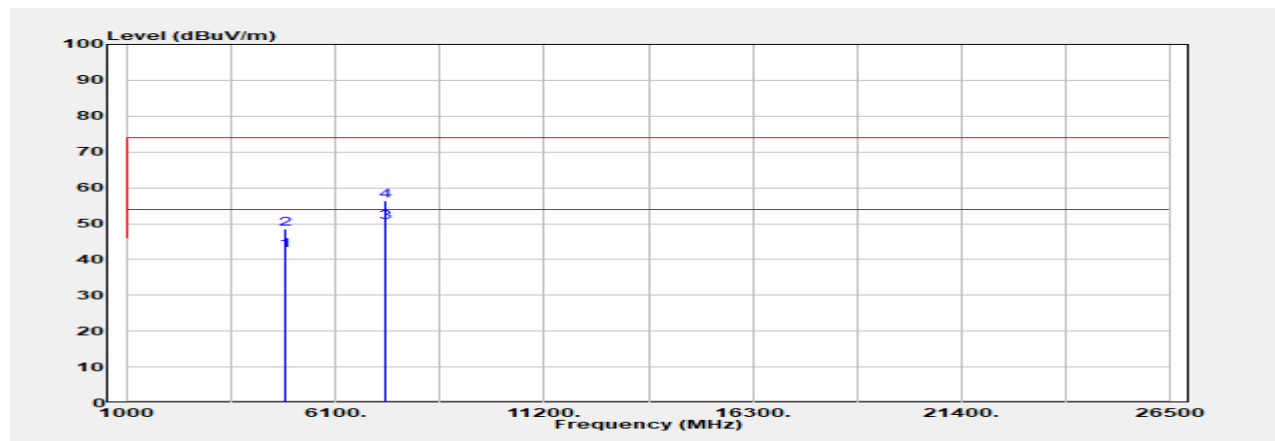
Test Site :SAC G Chamber

Test Date :2024-11-21

Temp./Humi. :23.7°C/60%

Antenna Pol. :Horizontal

Engineer :Jacky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4874.000	Average	38.84	3.80	42.63	54.00	-11.37
4874.000	Peak	44.67	3.80	48.47	74.00	-25.53
7311.000	Average	40.70	9.69	50.39	54.00	-3.61
7311.000	Peak	46.75	9.69	56.44	74.00	-17.56

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Report Number :TERF2410003019E2

Operation Mode :802.11b

Test Frequency :2462 MHz

Test Mode :Tx

EUT Pol :E2 Plane

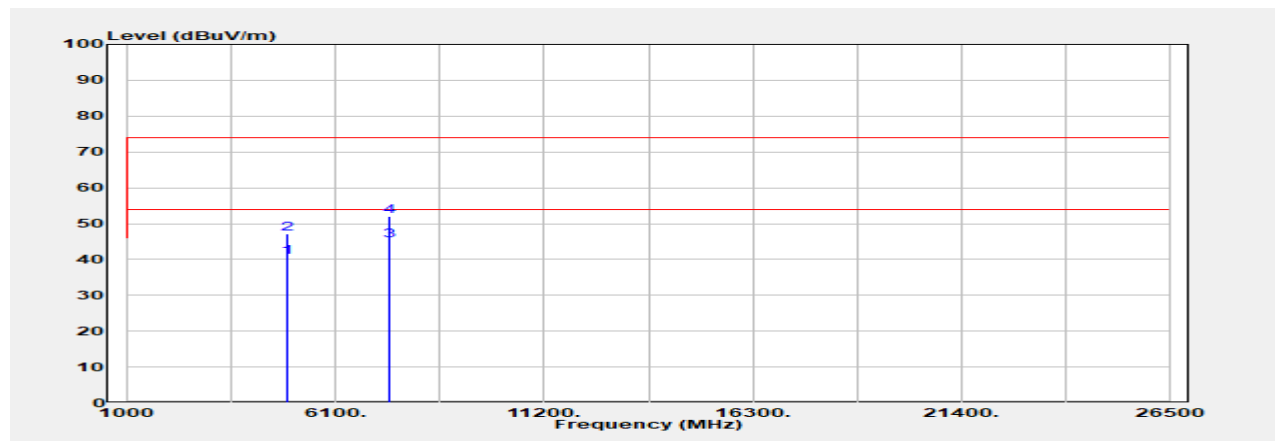
Test Site :SAC G Chamber

Test Date :2024-11-21

Temp./Humi. :23.7°C/60%

Antenna Pol. :Vertical

Engineer :Jacky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4924.000	Average	36.76	3.98	40.75	54.00	-13.25
4924.000	Peak	43.05	3.98	47.03	74.00	-26.97
7386.000	Average	35.77	9.46	45.23	54.00	-8.77
7386.000	Peak	42.56	9.46	52.02	74.00	-21.98

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Report Number :TERF2410003019E2

Operation Mode :802.11b

Test Frequency :2462 MHz

Test Mode :Tx

EUT Pol :E2 Plane

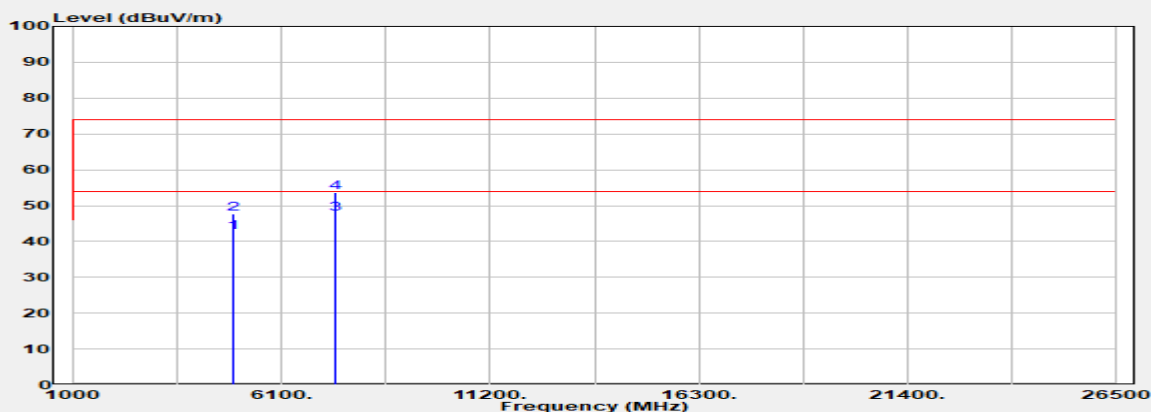
Test Site :SAC G Chamber

Test Date :2024-11-21

Temp./Humi. :23.7°C/60%

Antenna Pol. :Horizontal

Engineer :Jacky Chen



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	38.67	3.98	42.66	54.00	-11.34
4924.000	Peak	43.61	3.98	47.60	74.00	-26.40
7386.000	Average	38.28	9.46	47.74	54.00	-6.26
7386.000	Peak	44.31	9.46	53.77	74.00	-20.23

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Member of SGS Group

Report Number :TERF2410003019E2

Test Site :SAC G Chamber

Operation Mode :802.11g

Test Date :2024-11-21

Test Frequency :2412 MHz

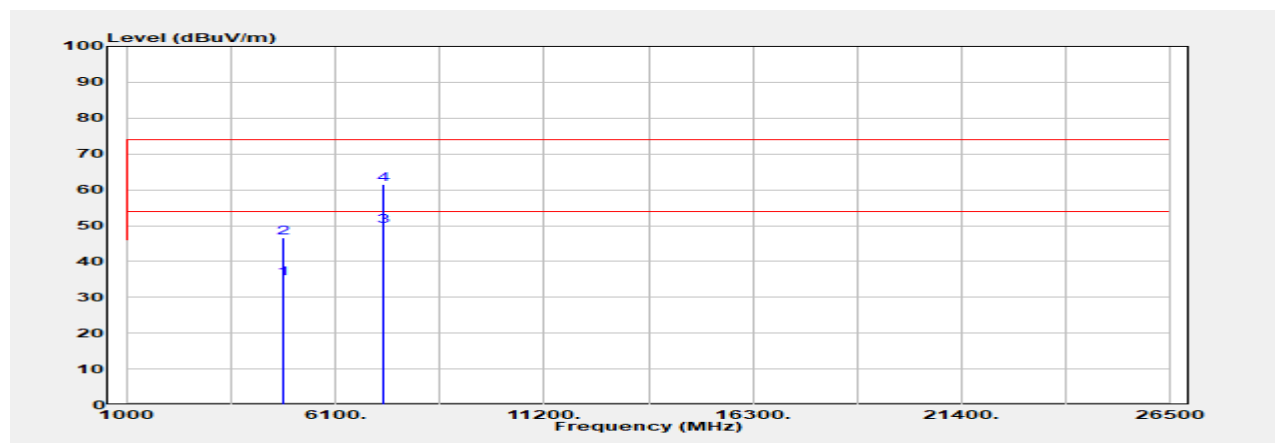
Temp./Humi. :23.7°C/60%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Jacky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4824.000	Average	31.69	3.54	35.23	54.00	-18.77
4824.000	Peak	43.18	3.54	46.73	74.00	-27.27
7236.000	Average	40.44	9.40	49.84	54.00	-4.16
7236.000	Peak	52.21	9.40	61.61	74.00	-12.39

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Report Number :TERF2410003019E2

Operation Mode :802.11g

Test Frequency :2412 MHz

Test Mode :Tx

EUT Pol :E2 Plane

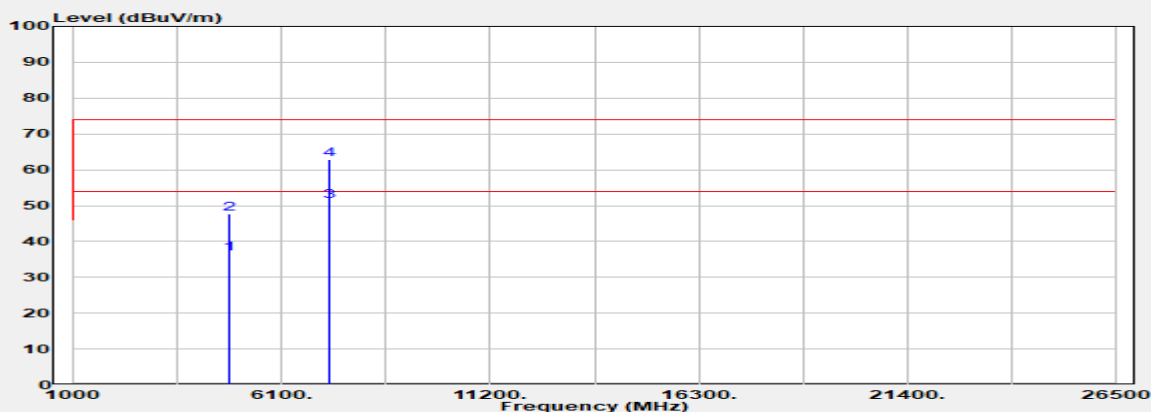
Test Site :SAC G Chamber

Test Date :2024-11-21

Temp./Humi. :23.7°C/60%

Antenna Pol. :Horizontal

Engineer :Jacky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4824.000	Average	33.06	3.54	36.61	54.00	-17.39
4824.000	Peak	44.23	3.54	47.78	74.00	-26.22
7236.000	Average	41.70	9.40	51.10	54.00	-2.90
7236.000	Peak	53.54	9.40	62.94	74.00	-11.06

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Report Number :TERF2410003019E2

Operation Mode :802.11g

Test Frequency :2437 MHz

Test Mode :Tx

EUT Pol :E2 Plane

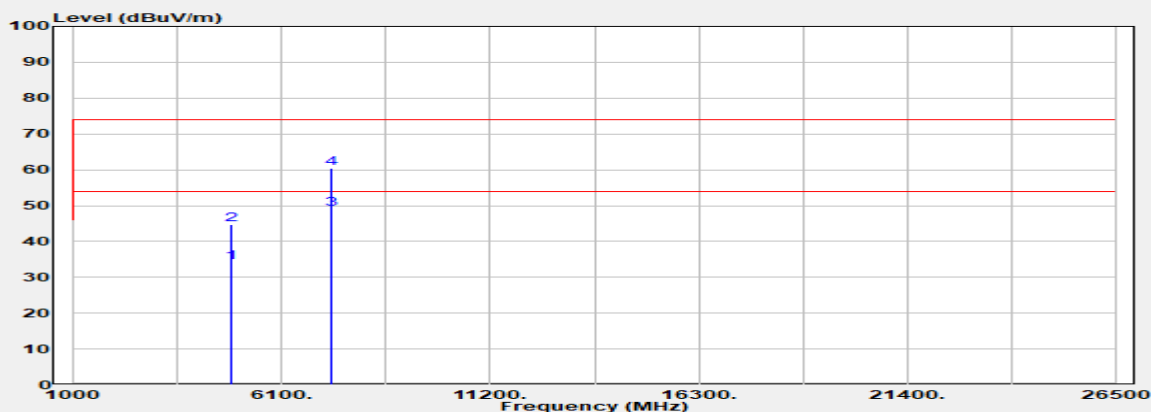
Test Site :SAC G Chamber

Test Date :2024-11-21

Temp./Humi. :23.7°C/60%

Antenna Pol. :Vertical

Engineer :Jacky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4874.000	Average	30.41	3.80	34.20	54.00	-19.80
4874.000	Peak	40.84	3.80	44.64	74.00	-29.36
7311.000	Average	39.41	9.69	49.10	54.00	-4.90
7311.000	Peak	50.63	9.69	60.32	74.00	-13.68

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Report Number :TERF2410003019E2

Operation Mode :802.11g

Test Frequency :2437 MHz

Test Mode :Tx

EUT Pol :E2 Plane

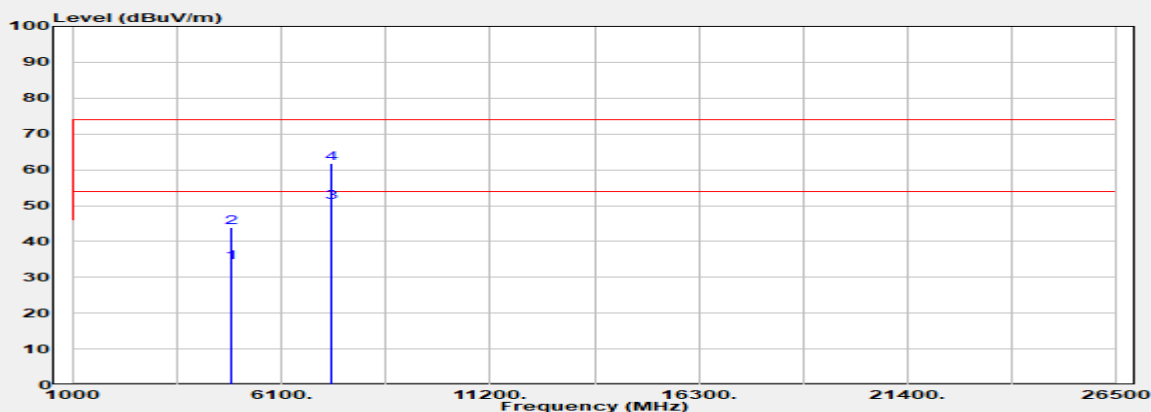
Test Site :SAC G Chamber

Test Date :2024-11-21

Temp./Humi. :23.7°C/60%

Antenna Pol. :Horizontal

Engineer :Jacky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4874.000	Average	30.45	3.80	34.24	54.00	-19.76
4874.000	Peak	40.12	3.80	43.91	74.00	-30.09
7311.000	Average	41.16	9.69	50.85	54.00	-3.15
7311.000	Peak	52.06	9.69	61.75	74.00	-12.25

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Report Number :TERF2410003019E2

Operation Mode :802.11g

Test Frequency :2462 MHz

Test Mode :Tx

EUT Pol :E2 Plane

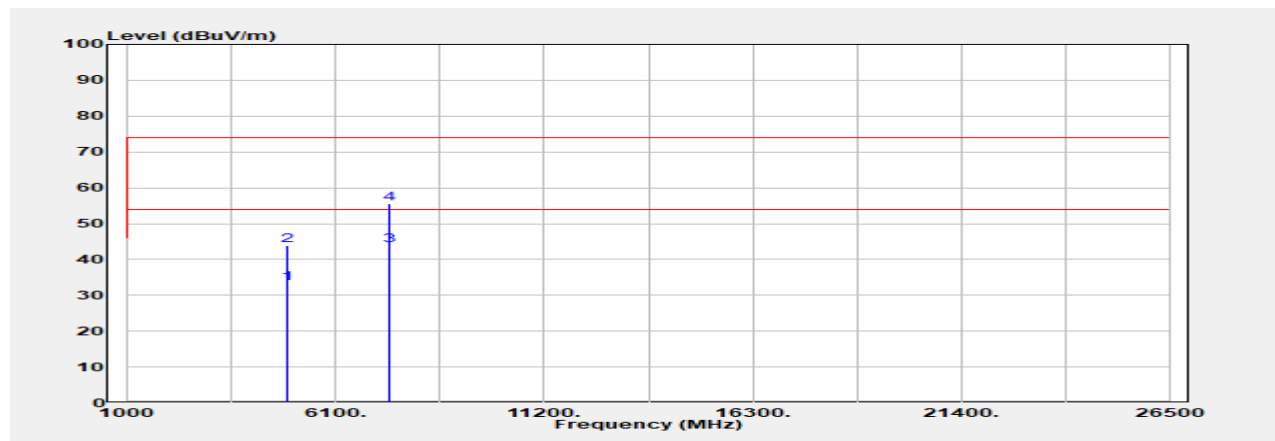
Test Site :SAC G Chamber

Test Date :2024-11-21

Temp./Humi. :23.7°C/60%

Antenna Pol. :Vertical

Engineer :Jacky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4924.000	Average	29.24	3.98	33.23	54.00	-20.77
4924.000	Peak	39.93	3.98	43.92	74.00	-30.08
7386.000	Average	34.56	9.46	44.02	54.00	-9.98
7386.000	Peak	46.20	9.46	55.66	74.00	-18.34

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Report Number :TERF2410003019E2

Operation Mode :802.11g

Test Frequency :2462 MHz

Test Mode :Tx

EUT Pol :E2 Plane

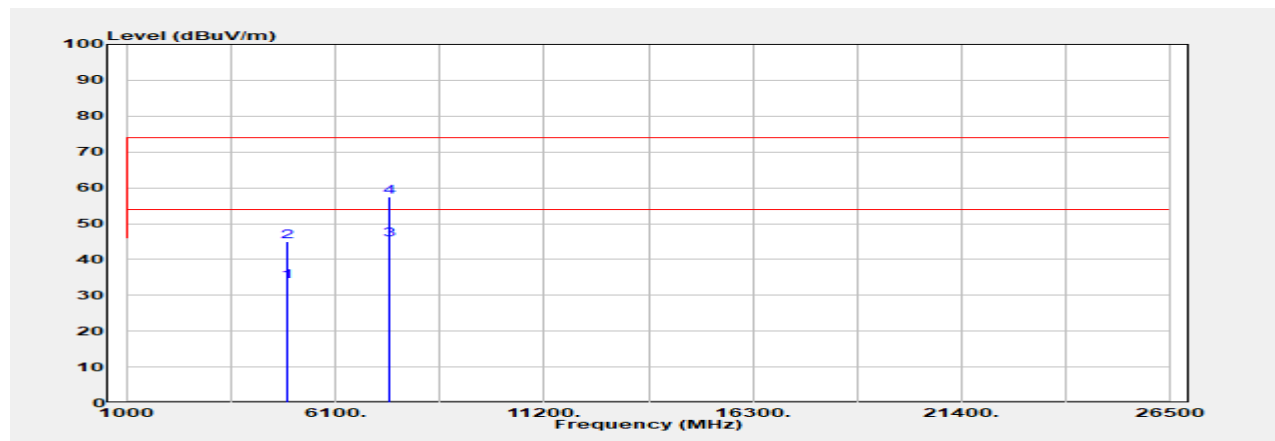
Test Site :SAC G Chamber

Test Date :2024-11-21

Temp./Humi. :23.7°C/60%

Antenna Pol. :Horizontal

Engineer :Jacky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4924.000	Average	29.91	3.98	33.90	54.00	-20.10
4924.000	Peak	40.96	3.98	44.95	74.00	-29.05
7386.000	Average	35.95	9.46	45.42	54.00	-8.58
7386.000	Peak	47.94	9.46	57.40	74.00	-16.60

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Report Number :TERF2410003019E2

Operation Mode :802.11n20

Test Frequency :2412 MHz

Test Mode :Tx

EUT Pol :E2 Plane

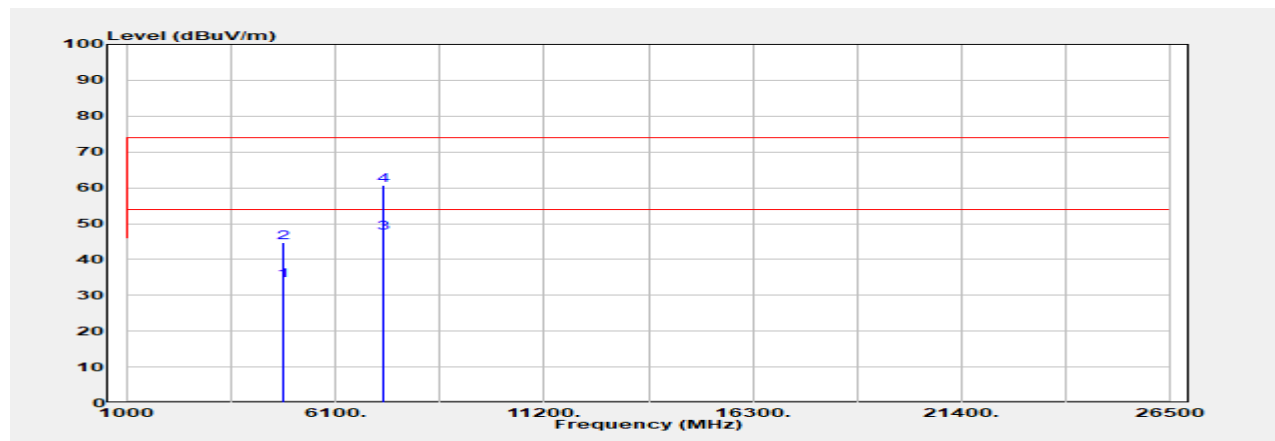
Test Site :SAC G Chamber

Test Date :2024-11-21

Temp./Humi. :23.7°C/60%

Antenna Pol. :Vertical

Engineer :Jacky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4824.000	Average	30.54	3.54	34.08	54.00	-19.92
4824.000	Peak	41.15	3.54	44.69	74.00	-29.31
7236.000	Average	37.98	9.40	47.37	54.00	-6.63
7236.000	Peak	51.25	9.40	60.65	74.00	-13.35

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Report Number :TERF2410003019E2

Operation Mode :802.11n20

Test Frequency :2412 MHz

Test Mode :Tx

EUT Pol :E2 Plane

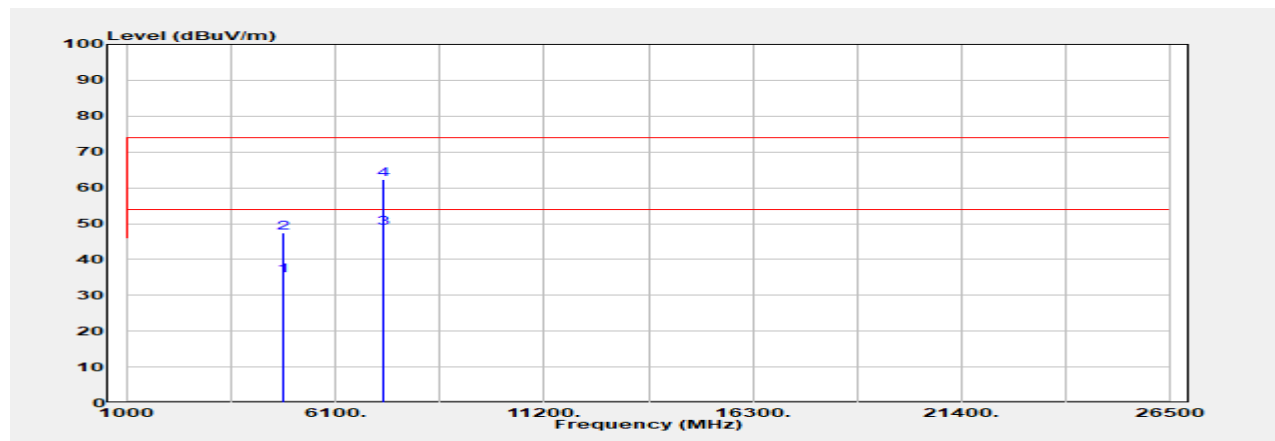
Test Site :SAC G Chamber

Test Date :2024-11-21

Temp./Humi. :23.7°C/60%

Antenna Pol. :Horizontal

Engineer :Jacky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4824.000	Average	31.97	3.54	35.52	54.00	-18.48
4824.000	Peak	43.91	3.54	47.45	74.00	-26.55
7236.000	Average	39.50	9.40	48.90	54.00	-5.10
7236.000	Peak	52.86	9.40	62.26	74.00	-11.74

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Report Number :TERF2410003019E2

Operation Mode :802.11n20

Test Frequency :2437 MHz

Test Mode :Tx

EUT Pol :E2 Plane

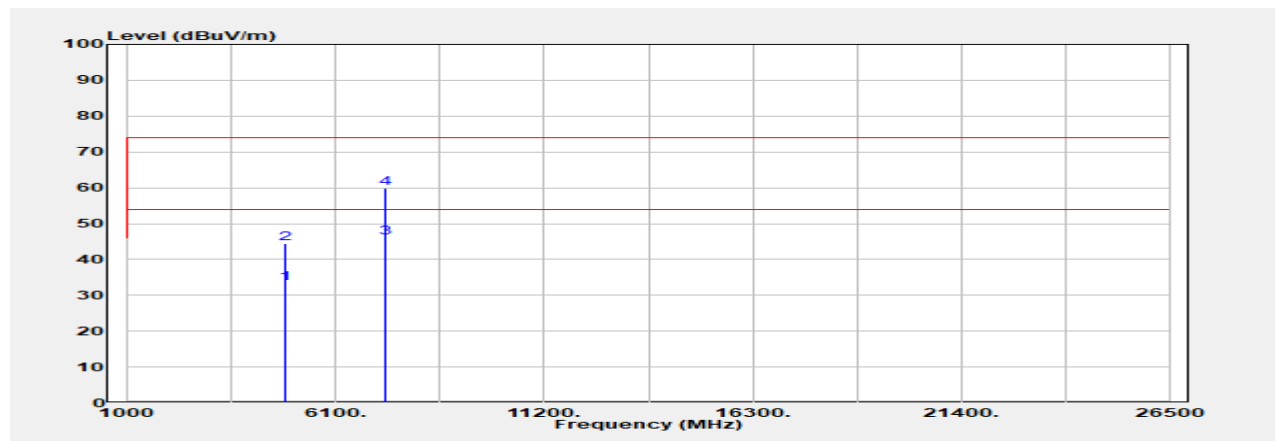
Test Site :SAC G Chamber

Test Date :2024-11-21

Temp./Humi. :23.7°C/60%

Antenna Pol. :Vertical

Engineer :Jacky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4874.000	Average	29.53	3.80	33.32	54.00	-20.68
4874.000	Peak	40.72	3.80	44.51	74.00	-29.49
7311.000	Average	36.34	9.69	46.03	54.00	-7.97
7311.000	Peak	50.10	9.69	59.79	74.00	-14.21

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Member of SGS Group

Report Number :TERF2410003019E2

Operation Mode :802.11n20

Test Frequency :2437 MHz

Test Mode :Tx

EUT Pol :E2 Plane

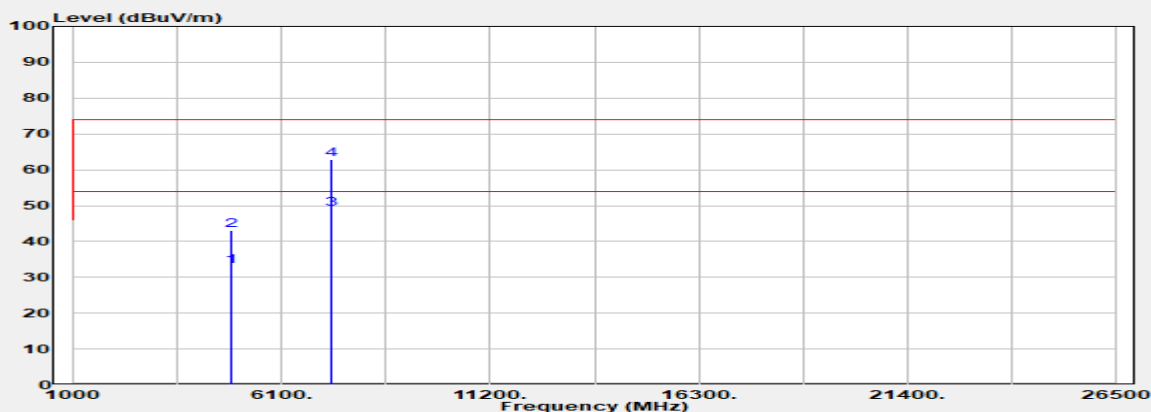
Test Site :SAC G Chamber

Test Date :2024-11-21

Temp./Humi. :23.7°C/60%

Antenna Pol. :Horizontal

Engineer :Jacky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4874.000	Average	29.14	3.80	32.94	54.00	-21.06
4874.000	Peak	39.41	3.80	43.21	74.00	-30.79
7311.000	Average	39.41	9.69	49.09	54.00	-4.91
7311.000	Peak	53.21	9.69	62.90	74.00	-11.10

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Report Number :TERF2410003019E2

Operation Mode :802.11n20

Test Frequency :2462 MHz

Test Mode :Tx

EUT Pol :E2 Plane

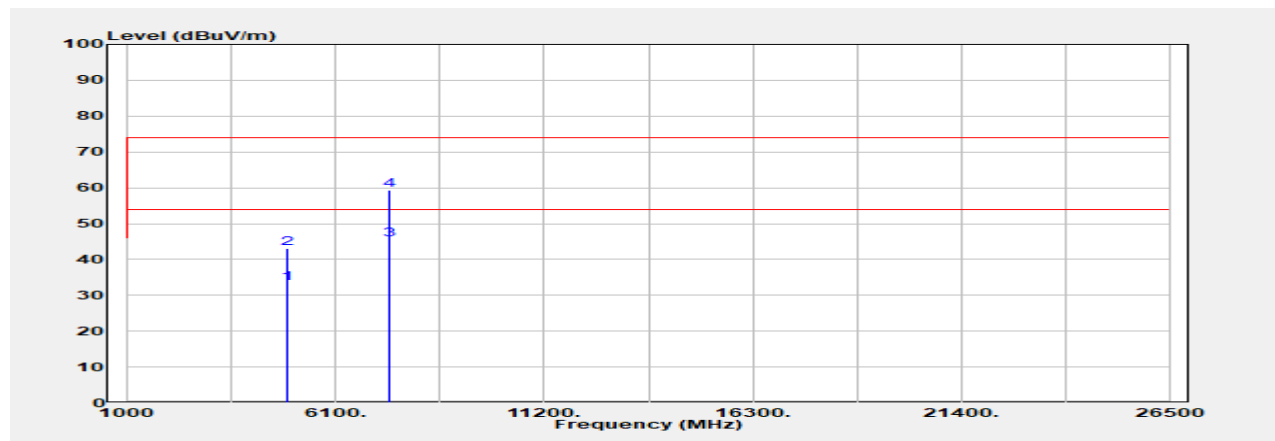
Test Site :SAC G Chamber

Test Date :2024-11-21

Temp./Humi. :23.7°C/60%

Antenna Pol. :Vertical

Engineer :Jacky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4924.000	Average	29.35	3.98	33.33	54.00	-20.67
4924.000	Peak	39.14	3.98	43.12	74.00	-30.88
7386.000	Average	36.17	9.46	45.63	54.00	-8.37
7386.000	Peak	49.97	9.46	59.43	74.00	-14.57

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Report Number :TERF2410003019E2

Operation Mode :802.11n20

Test Frequency :2462 MHz

Test Mode :Tx

EUT Pol :E2 Plane

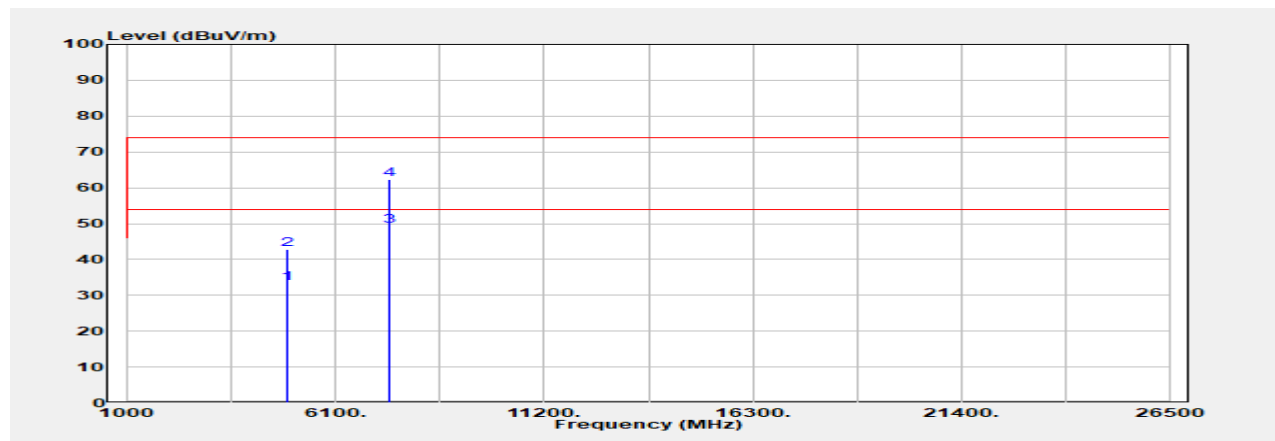
Test Site :SAC G Chamber

Test Date :2024-11-21

Temp./Humi. :23.7°C/60%

Antenna Pol. :Horizontal

Engineer :Jacky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4924.000	Average	29.47	3.98	33.45	54.00	-20.55
4924.000	Peak	38.73	3.98	42.72	74.00	-31.28
7386.000	Average	39.90	9.46	49.36	54.00	-4.64
7386.000	Peak	52.91	9.46	62.37	74.00	-11.63

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Report Number :TERF2410003019E2

Operation Mode :802.11ax20

Test Frequency :2412 MHz

Test Mode :Tx

EUT Pol :E2 Plane

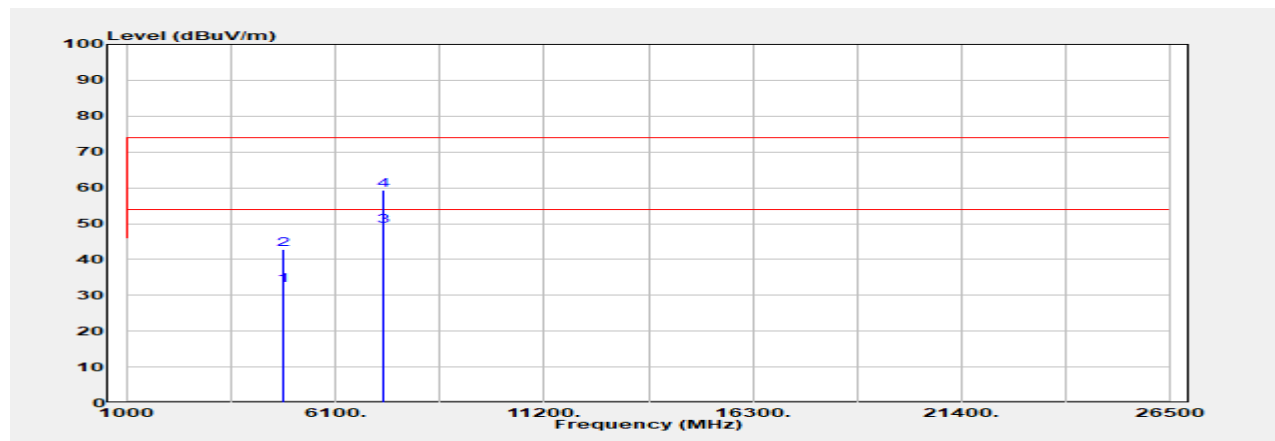
Test Site :SAC G Chamber

Test Date :2024-11-21

Temp./Humi. :23.7°C/60%

Antenna Pol. :Vertical

Engineer :Jacky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4824.000	Average	29.15	3.54	32.69	54.00	-21.31
4824.000	Peak	39.32	3.54	42.86	74.00	-31.14
7236.000	Average	39.97	9.40	49.36	54.00	-4.64
7236.000	Peak	49.90	9.40	59.30	74.00	-14.70

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Report Number :TERF2410003019E2

Operation Mode :802.11ax20

Test Frequency :2412 MHz

Test Mode :Tx

EUT Pol :E2 Plane

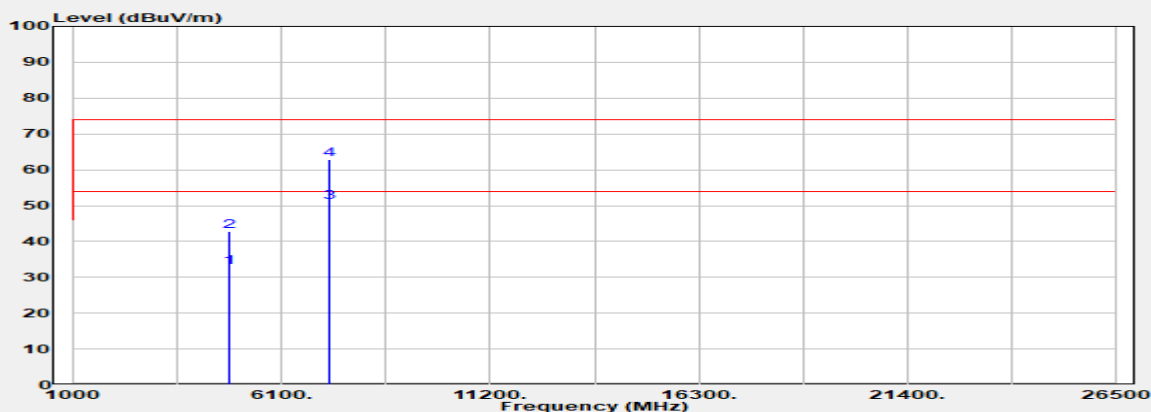
Test Site :SAC G Chamber

Test Date :2024-11-21

Temp./Humi. :23.7°C/60%

Antenna Pol. :Horizontal

Engineer :Jacky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4824.000	Average	29.27	3.54	32.81	54.00	-21.19
4824.000	Peak	39.27	3.54	42.81	74.00	-31.19
7236.000	Average	41.54	9.40	50.94	54.00	-3.06
7236.000	Peak	53.59	9.40	62.99	74.00	-11.01

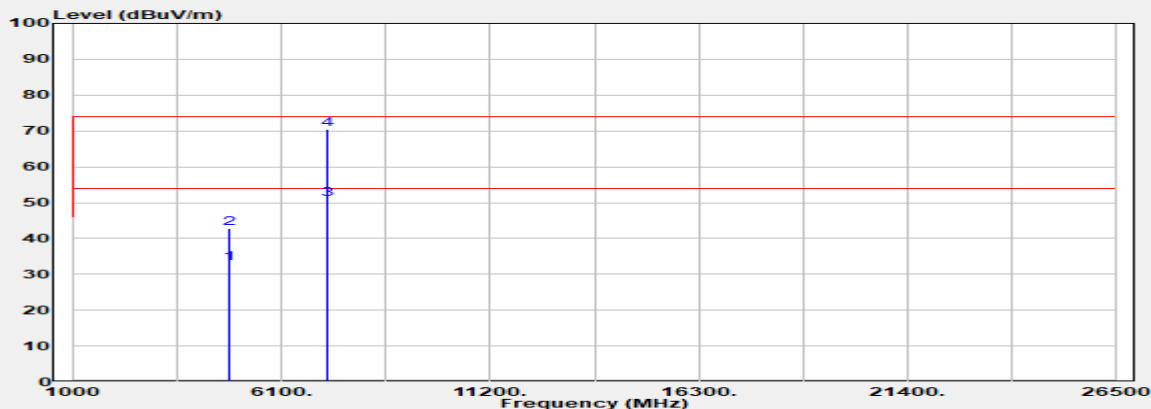
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Report Number :TERF2410003019E2
Operation Mode :802.11ax20 RU 26/0
Test Frequency :2412 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2024-11-26
Temp./Humi. :24.2°C/54%
Antenna Pol. :Vertical
Engineer :Jacky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4807.000	Average	29.45	3.49	32.94	54.00	-21.06
4807.000	Peak	39.23	3.49	42.72	74.00	-31.28
7210.500	Average	41.63	9.24	50.87	54.00	-3.13
7210.500	Peak	61.19	9.24	70.42	74.00	-3.58

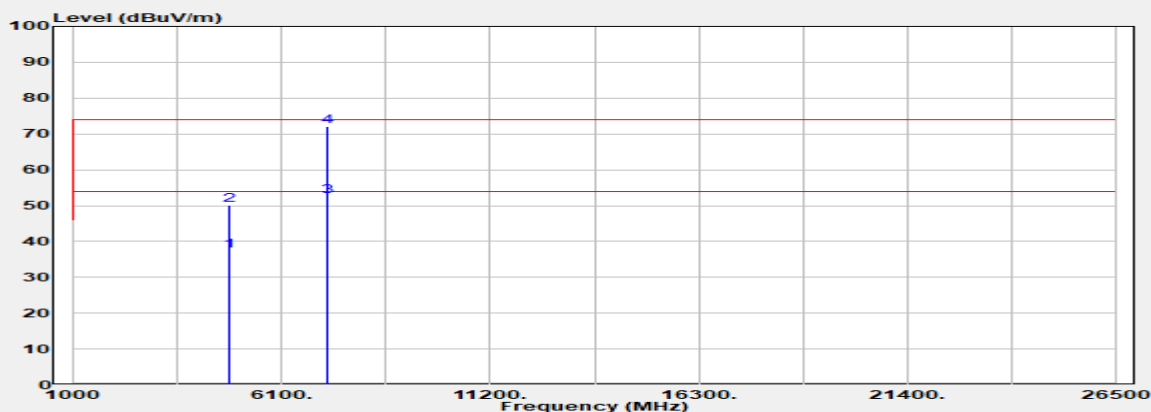
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Report Number :TERF2410003019E2
Operation Mode :802.11ax20 RU 26/0
Test Frequency :2412 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2024-11-26
Temp./Humi. :24.2°C/54%
Antenna Pol. :Horizontal
Engineer :Jacky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4807.000	Average	33.95	3.49	37.45	54.00	-16.55
4807.000	Peak	46.57	3.49	50.06	74.00	-23.94
7210.500	Average	43.21	9.24	52.44	54.00	-1.56
7210.500	Peak	62.82	9.24	72.05	74.00	-1.95

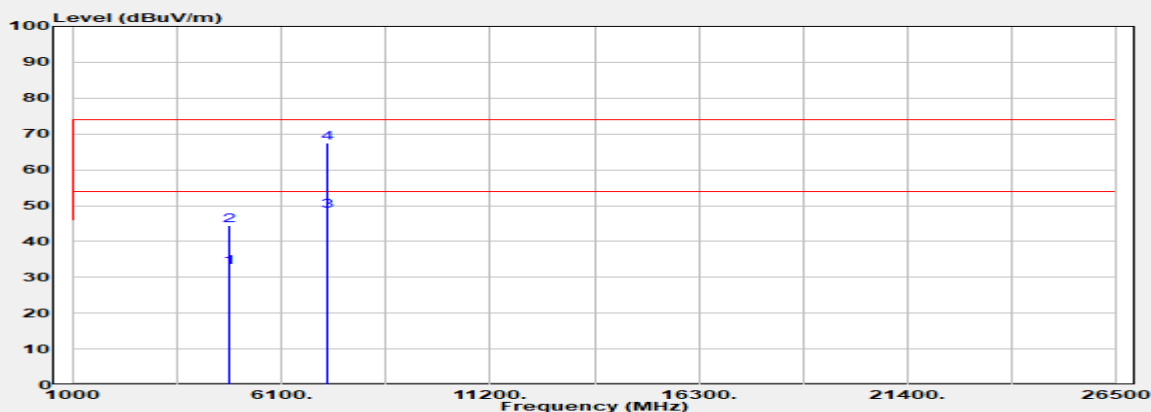
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Report Number :TERF2410003019E2
Operation Mode :802.11ax20 RU 52/37
Test Frequency :2412 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2024-11-26
Temp./Humi. :24.2°C/54%
Antenna Pol. :Vertical
Engineer :Jacky Chen



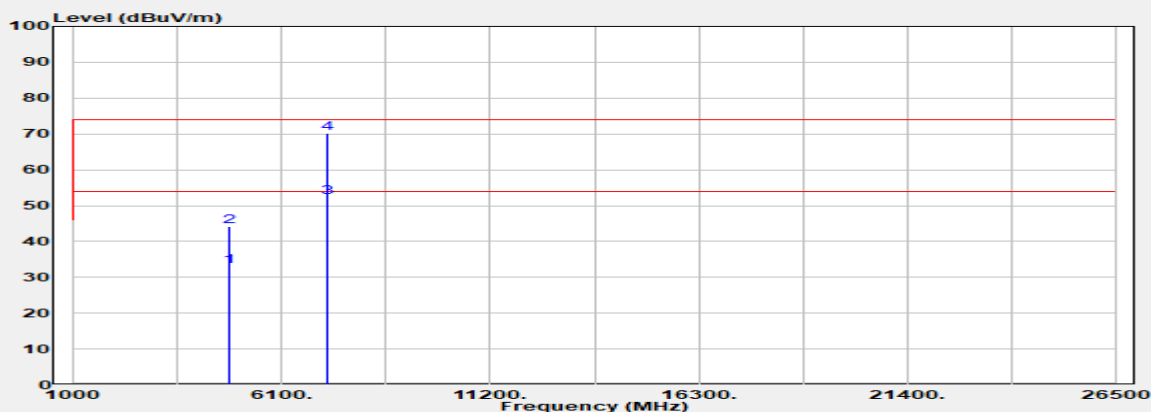
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4809.000	Average	29.21	3.50	32.71	54.00	-21.29
4809.000	Peak	40.87	3.50	44.37	74.00	-29.63
7213.500	Average	39.37	9.26	48.62	54.00	-5.38
7213.500	Peak	58.14	9.26	67.39	74.00	-6.61

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Report Number :TERF2410003019E2
Operation Mode :802.11ax20 RU 52/37
Test Frequency :2412 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2024-11-26
Temp./Humi. :24.2°C/54%
Antenna Pol. :Horizontal
Engineer :Jacky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4809.000	Average	29.55	3.50	33.05	54.00	-20.95
4809.000	Peak	40.70	3.50	44.20	74.00	-29.80
7213.500	Average	43.12	9.26	52.37	54.00	-1.63
7213.500	Peak	61.06	9.26	70.31	74.00	-3.69

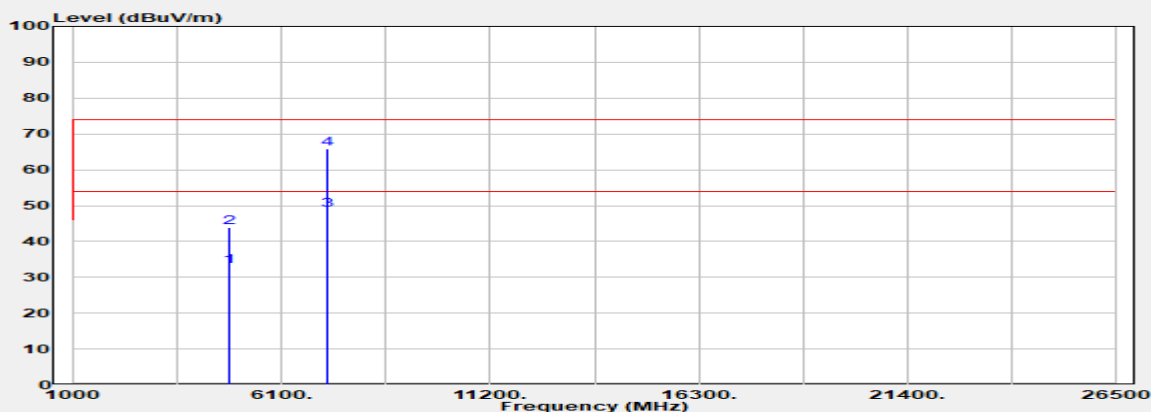
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Report Number :TERF2410003019E2
Operation Mode :802.11ax20 RU 106/53
Test Frequency :2412 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2024-11-26
Temp./Humi. :24.2°C/54%
Antenna Pol. :Vertical
Engineer :Jacky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4812.000	Average	29.45	3.51	32.96	54.00	-21.04
4812.000	Peak	40.27	3.51	43.78	74.00	-30.22
7218.000	Average	39.62	9.28	48.91	54.00	-5.09
7218.000	Peak	56.52	9.28	65.80	74.00	-8.20

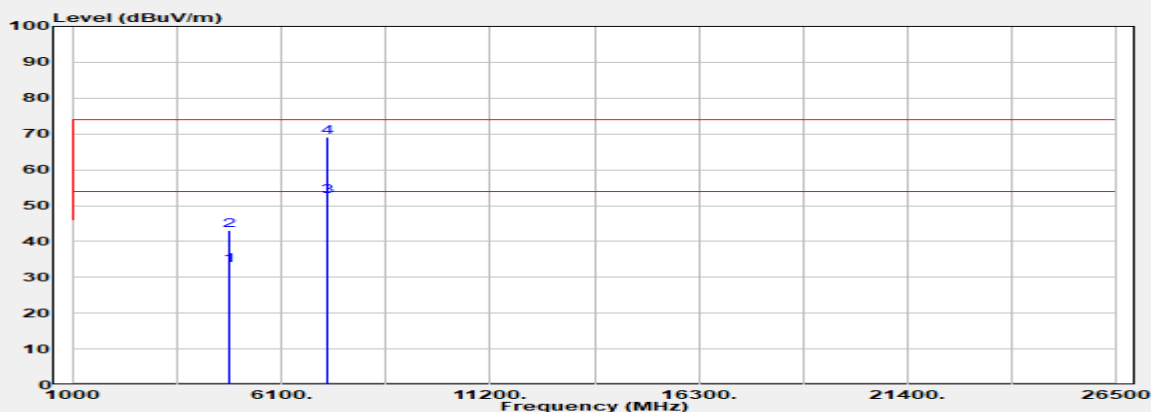
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Report Number :TERF2410003019E2
Operation Mode :802.11ax20 RU 106/53
Test Frequency :2412 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2024-11-26
Temp./Humi. :24.2°C/54%
Antenna Pol. :Horizontal
Engineer :Jacky Chen



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
4812.000	Average	29.76	3.51	33.27	54.00	-20.73
4812.000	Peak	39.47	3.51	42.97	74.00	-31.03
7218.000	Average	43.20	9.28	52.48	54.00	-1.52
7218.000	Peak	59.80	9.28	69.08	74.00	-4.92

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Report Number :TERF2410003019E2

Operation Mode :802.11ax20

Test Frequency :2437 MHz

Test Mode :Tx

EUT Pol :E2 Plane

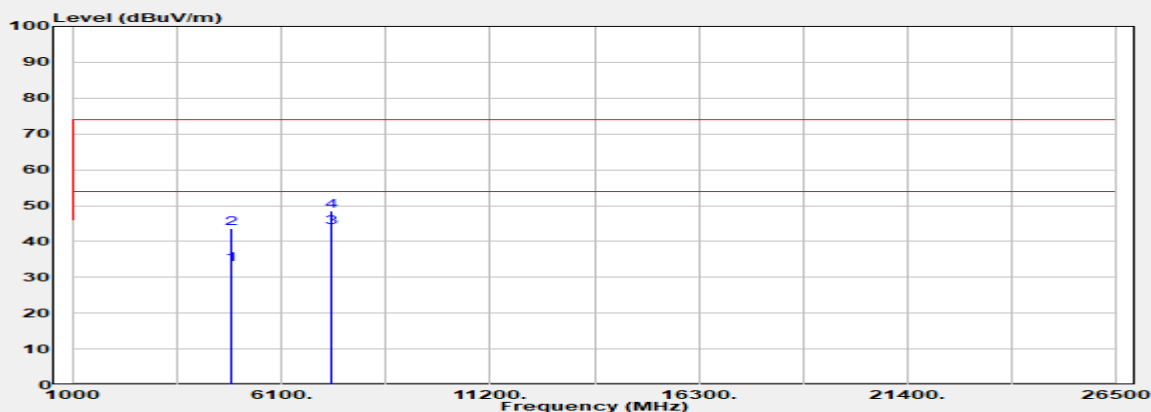
Test Site :SAC G Chamber

Test Date :2024-11-21

Temp./Humi. :23.7°C/60%

Antenna Pol. :Vertical

Engineer :Jacky Chen



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	29.75	3.80	33.54	54.00	-20.46
4874.000	Peak	39.80	3.80	43.59	74.00	-30.41
7311.000	Average	34.09	9.69	43.77	54.00	-10.23
7311.000	Peak	38.75	9.69	48.44	74.00	-25.56

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Report Number :TERF2410003019E2

Operation Mode :802.11ax20

Test Frequency :2437 MHz

Test Mode :Tx

EUT Pol :E2 Plane

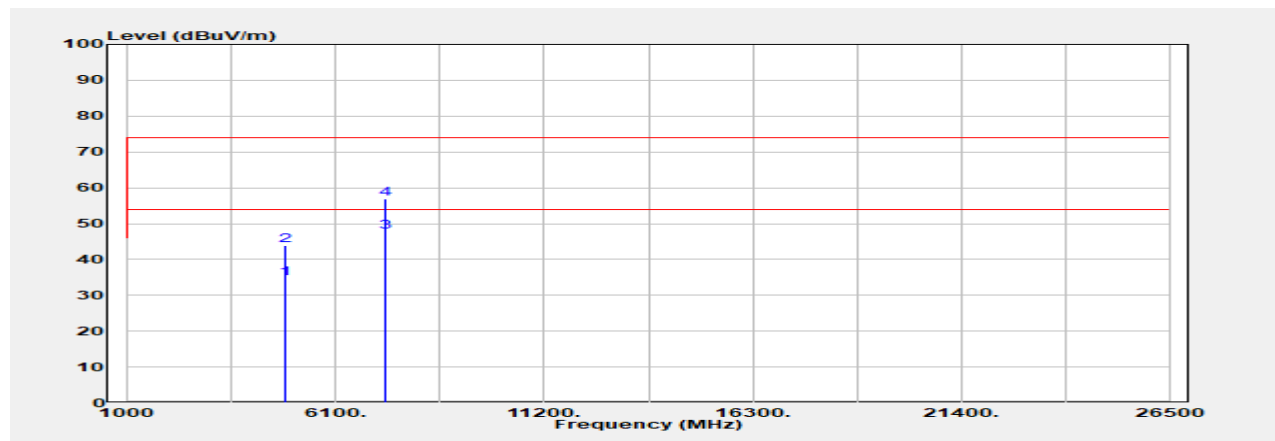
Test Site :SAC G Chamber

Test Date :2024-11-21

Temp./Humi. :23.7°C/60%

Antenna Pol. :Horizontal

Engineer :Jacky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4874.000	Average	30.89	3.80	34.69	54.00	-19.31
4874.000	Peak	40.18	3.80	43.97	74.00	-30.03
7311.000	Average	37.98	9.69	47.67	54.00	-6.33
7311.000	Peak	47.24	9.69	56.93	74.00	-17.07

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Report Number :TERF2410003019E2

Operation Mode :802.11ax20

Test Frequency :2462 MHz

Test Mode :Tx

EUT Pol :E2 Plane

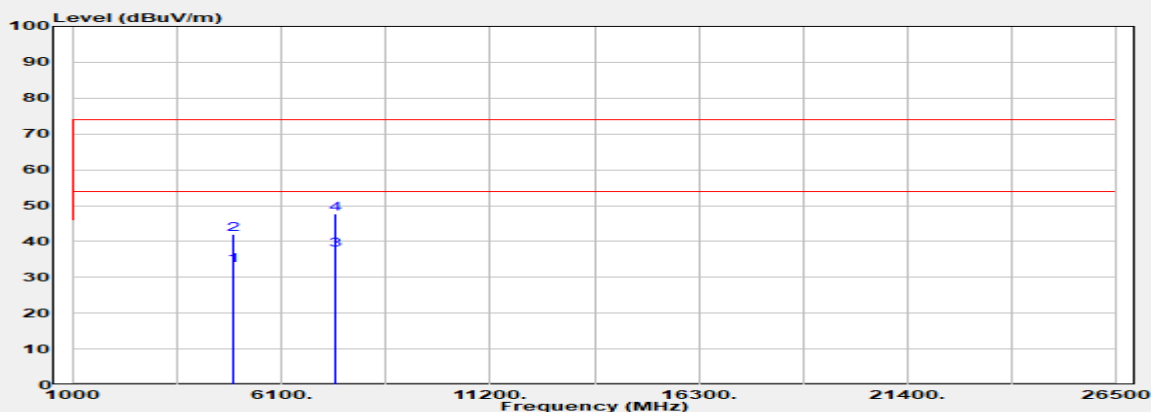
Test Site :SAC G Chamber

Test Date :2024-11-21

Temp./Humi. :23.7°C/60%

Antenna Pol. :Vertical

Engineer :Jacky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4924.000	Average	29.45	3.98	33.43	54.00	-20.57
4924.000	Peak	38.00	3.98	41.98	74.00	-32.02
7386.000	Average	28.25	9.46	37.71	54.00	-16.29
7386.000	Peak	38.26	9.46	47.72	74.00	-26.28

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Report Number :TERF2410003019E2

Operation Mode :802.11ax20

Test Frequency :2462 MHz

Test Mode :Tx

EUT Pol :E2 Plane

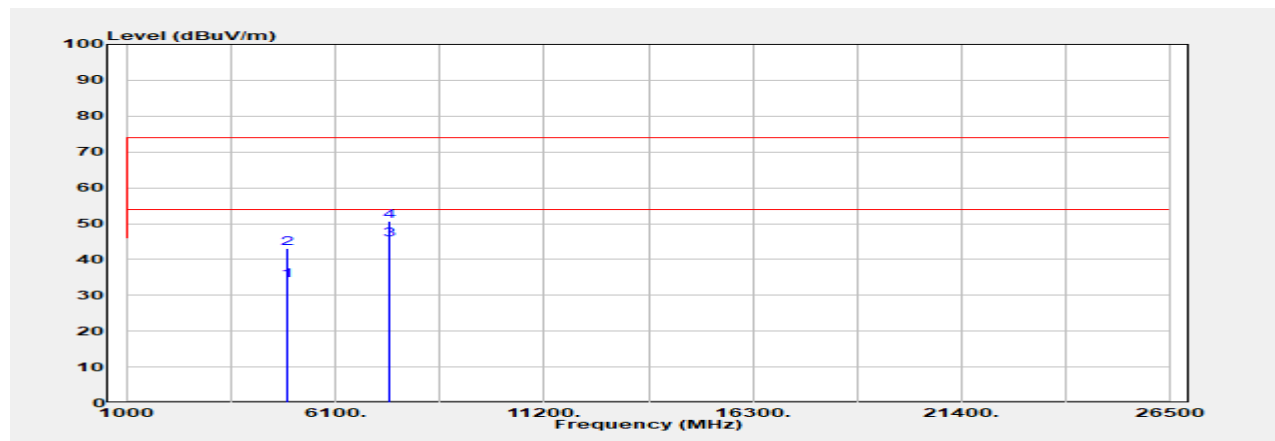
Test Site :SAC G Chamber

Test Date :2024-11-21

Temp./Humi. :23.7°C/60%

Antenna Pol. :Horizontal

Engineer :Jacky Chen



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	30.14	3.98	34.12	54.00	-19.88
4924.000	Peak	39.10	3.98	43.09	74.00	-30.91
7386.000	Average	36.01	9.46	45.47	54.00	-8.53
7386.000	Peak	41.22	9.46	50.68	74.00	-23.32

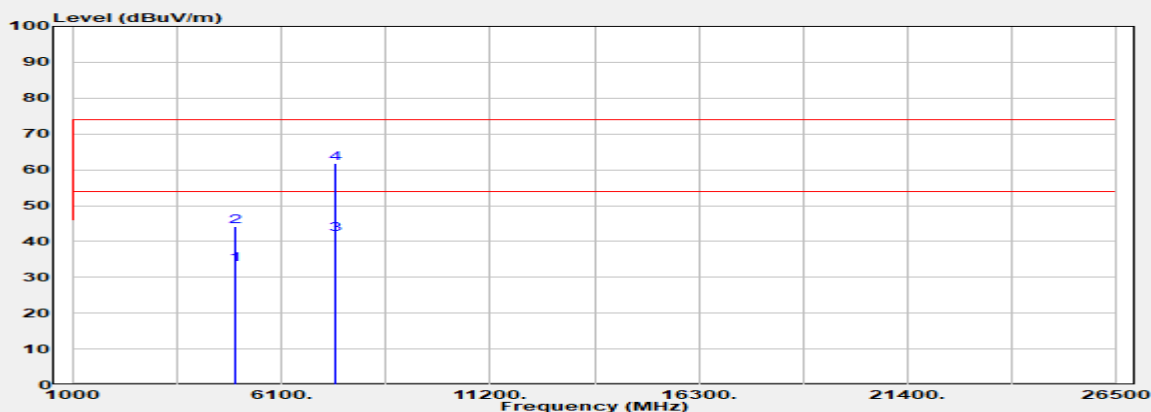
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Report Number :TERF2410003019E2
Operation Mode :802.11ax20 RU 26/8
Test Frequency :2462 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2024-11-26
Temp./Humi. :24.2°C/54%
Antenna Pol. :Vertical
Engineer :Jacky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4941.000	Average	29.68	3.99	33.67	54.00	-20.33
4941.000	Peak	40.08	3.99	44.07	74.00	-29.93
7411.500	Average	32.42	9.49	41.91	54.00	-12.09
7411.500	Peak	52.36	9.49	61.86	74.00	-12.14

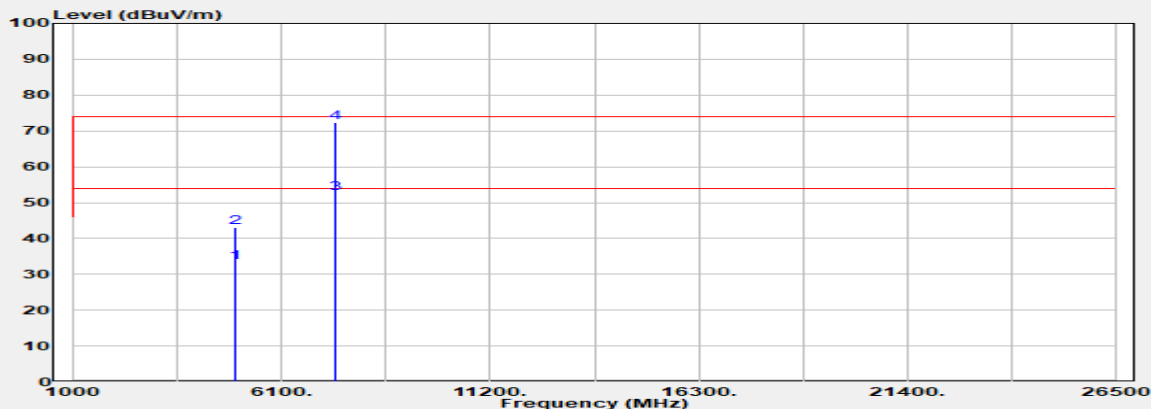
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Report Number :TERF2410003019E2
Operation Mode :802.11ax20 RU 26/8
Test Frequency :2462 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2024-11-26
Temp./Humi. :24.2°C/54%
Antenna Pol. :Horizontal
Engineer :Jacky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4941.000	Average	29.39	3.99	33.38	54.00	-20.62
4941.000	Peak	39.14	3.99	43.12	74.00	-30.88
7411.500	Average	43.15	9.49	52.64	54.00	-1.36
7411.500	Peak	62.93	9.49	72.43	74.00	-1.57

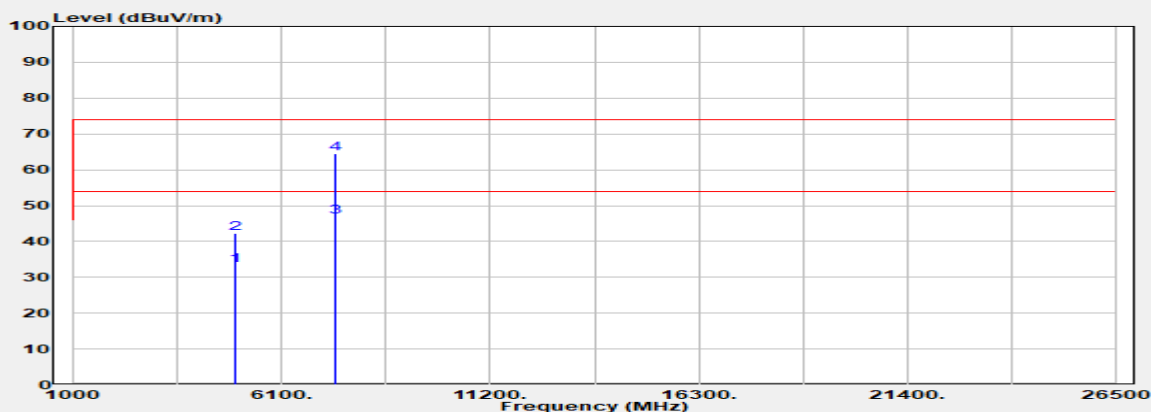
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Report Number :TERF2410003019E2
Operation Mode :802.11ax20 RU 52/40
Test Frequency :2462 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2024-11-26
Temp./Humi. :24.2°C/54%
Antenna Pol. :Vertical
Engineer :Jacky Chen



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
4939.000	Average	29.48	3.99	33.47	54.00	-20.53
4939.000	Peak	38.29	3.99	42.28	74.00	-31.72
7408.500	Average	37.41	9.47	46.88	54.00	-7.12
7408.500	Peak	55.08	9.47	64.55	74.00	-9.45

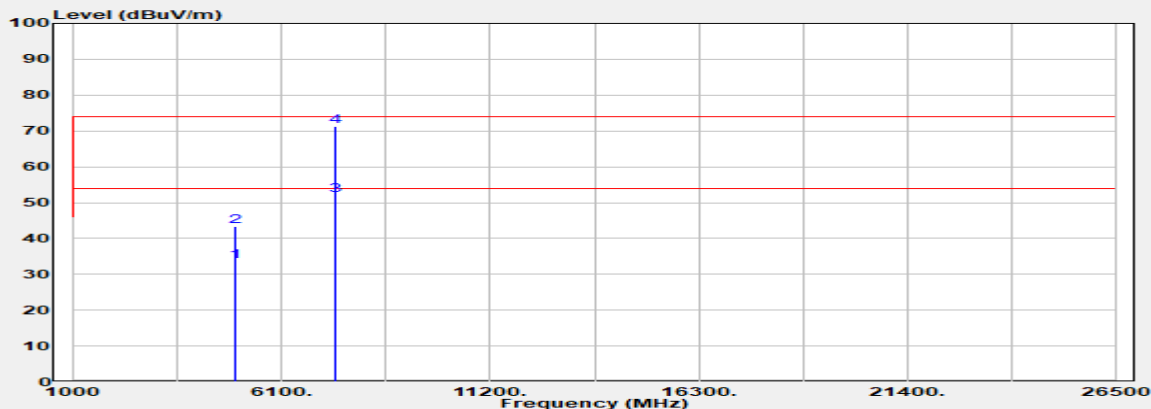
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Report Number :TERF2410003019E2
Operation Mode :802.11ax20 RU 52/40
Test Frequency :2462 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2024-11-26
Temp./Humi. :24.2°C/54%
Antenna Pol. :Horizontal
Engineer :Jacky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4939.000	Average	29.67	3.99	33.66	54.00	-20.34
4939.000	Peak	39.33	3.99	43.31	74.00	-30.69
7408.500	Average	42.46	9.47	51.92	54.00	-2.08
7408.500	Peak	61.73	9.47	71.20	74.00	-2.80

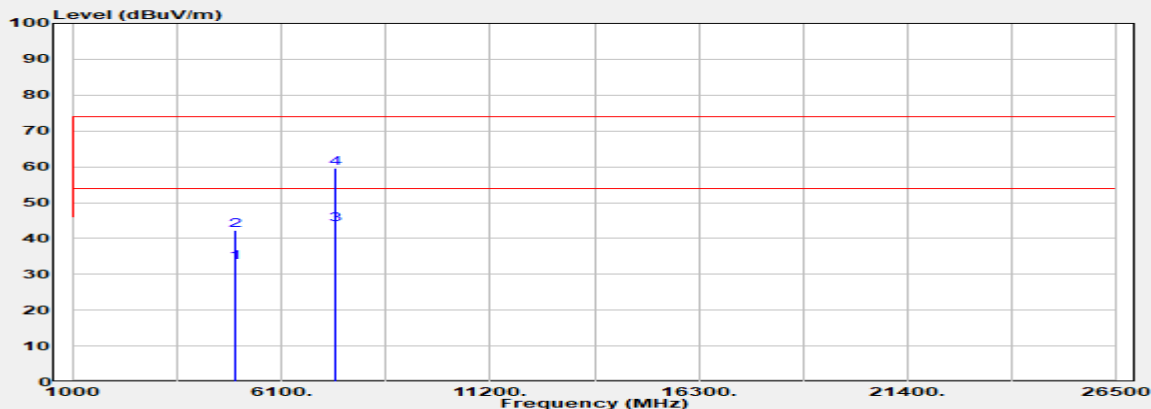
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Report Number :TERF2410003019E2
Operation Mode :802.11ax20 RU 106/54
Test Frequency :2462 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2024-11-26
Temp./Humi. :24.2°C/54%
Antenna Pol. :Vertical
Engineer :Jacky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4934.000	Average	29.27	3.99	33.26	54.00	-20.74
4934.000	Peak	38.24	3.99	42.22	74.00	-31.78
7401.000	Average	34.40	9.40	43.79	54.00	-10.21
7401.000	Peak	50.17	9.40	59.57	74.00	-14.43

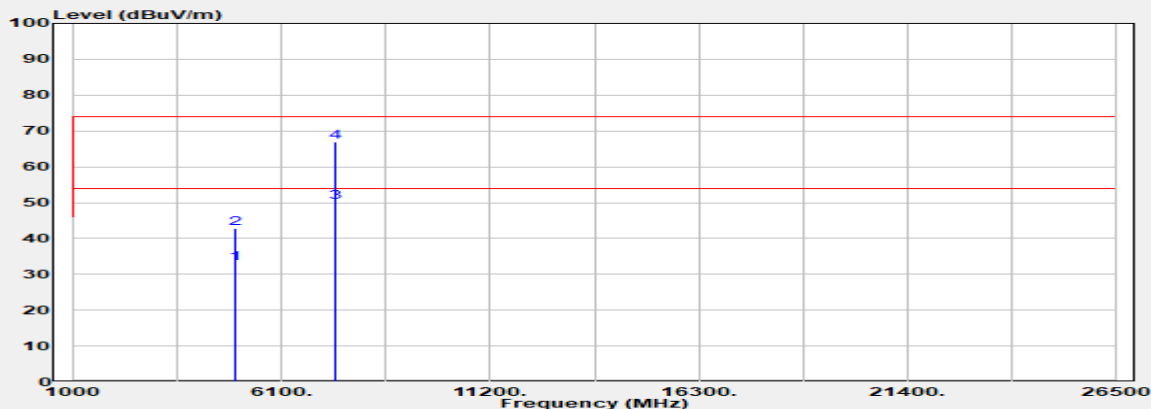
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Report Number :TERF2410003019E2
Operation Mode :802.11ax20 RU 106/54
Test Frequency :2462 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2024-11-26
Temp./Humi. :24.2°C/54%
Antenna Pol. :Horizontal
Engineer :Jacky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4934.000	Average	29.15	3.99	33.14	54.00	-20.86
4934.000	Peak	38.93	3.99	42.91	74.00	-31.09
7401.000	Average	40.66	9.40	50.06	54.00	-3.94
7401.000	Peak	57.54	9.40	66.94	74.00	-7.06

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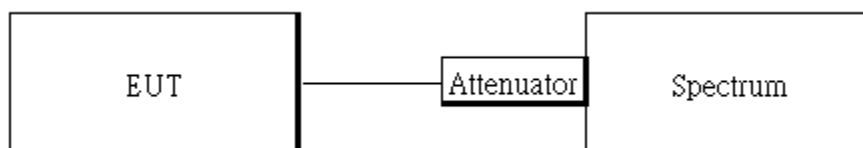
12 POWER SPECTRAL DENSITY

12.1 Standard Applicable

Per Part 15.247 (e) & RSS-247 section 5.2 b

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.

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.

Note:

1. When the antenna gain is greater than 6 dBi, the power spectral density limit attenuated accordingly.

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12.4 Power spectral density

POWER DENSITY 802.11b				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-6.55	-6.55	8.00	PASS
2437	-7.64	-7.64	8.00	PASS
2462	-8.07	-8.07	8.00	PASS

POWER DENSITY 802.11g				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-9.85	-9.85	8.00	PASS
2437	-9.96	-9.96	8.00	PASS
2462	-9.75	-9.75	8.00	PASS

POWER DENSITY 802.11n HT20				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-10.79	-10.79	8.00	PASS
2437	-11.57	-11.57	8.00	PASS
2462	-11.04	-11.04	8.00	PASS

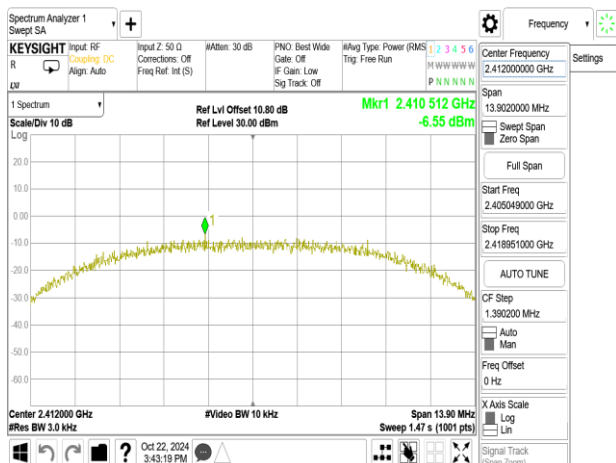
POWER DENSITY 802.11ax HE20					
Freq. (MHz)	RU Config	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	full	-13.05	-13.05	8.00	PASS
	26/0	-10.09	-10.09	8.00	PASS
	52/37	-10.7	-10.70	8.00	PASS
	106/53	-12.59	-12.59	8.00	PASS
2437	full	-15.56	-15.56	8.00	PASS
2462	full	-14.7	-14.70	8.00	PASS
	26/8	-8.03	-8.03	8.00	PASS
	52/40	-8.33	-8.33	8.00	PASS
	106/54	-10.61	-10.61	8.00	PASS

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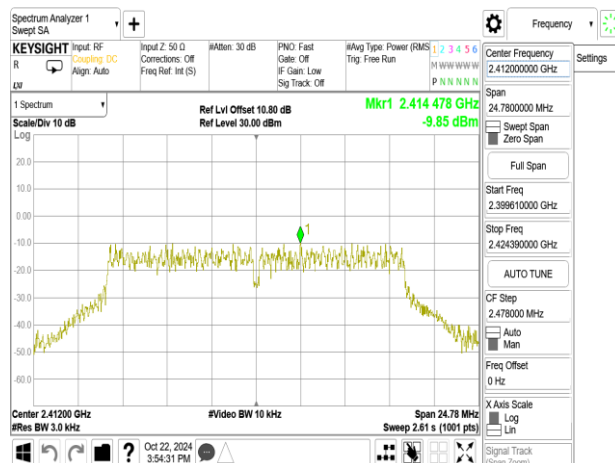
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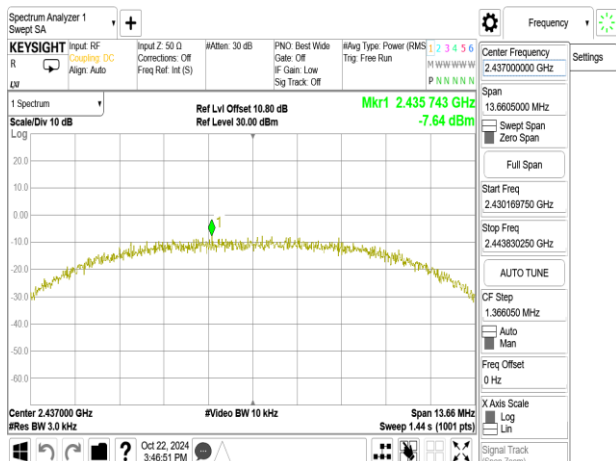
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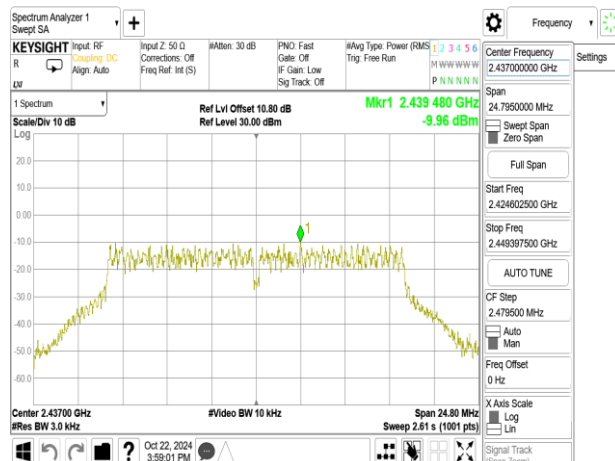
802.11g_20MHz_Chain0_2412MHz



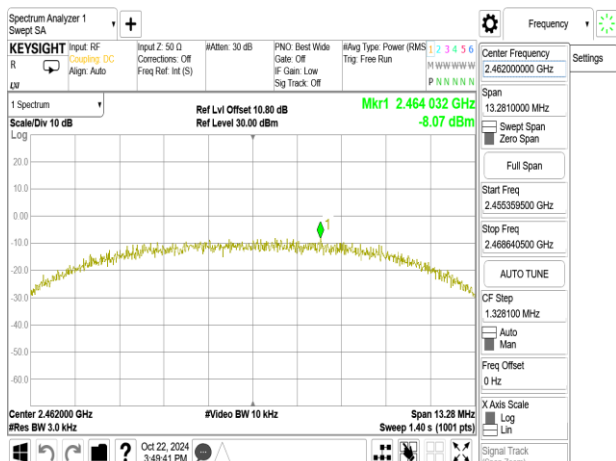
802.11b_20MHz_Chain0_2437MHz



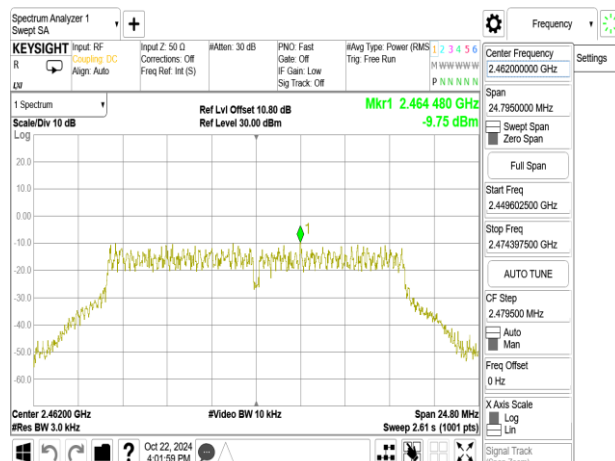
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802.11b_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain0_2462MHz

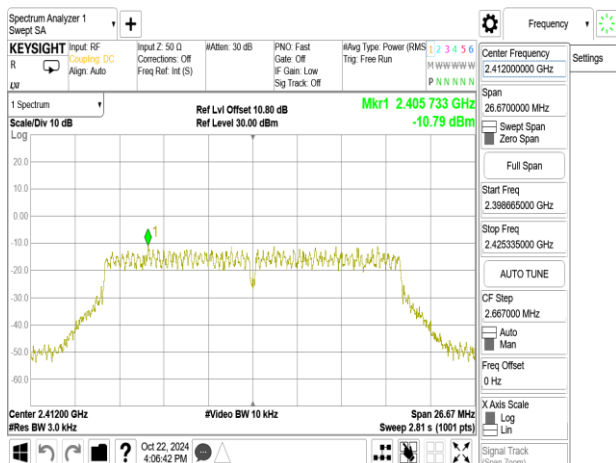


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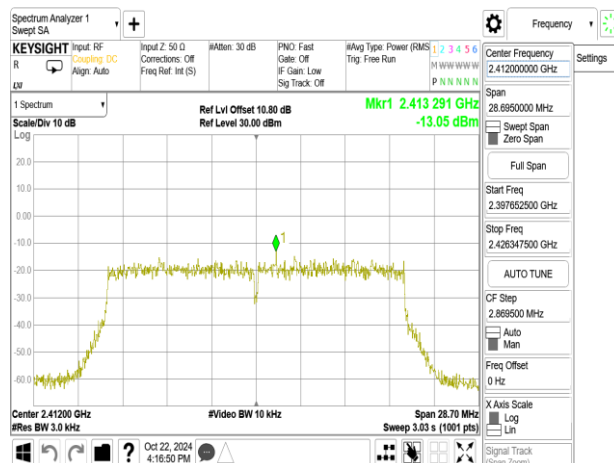
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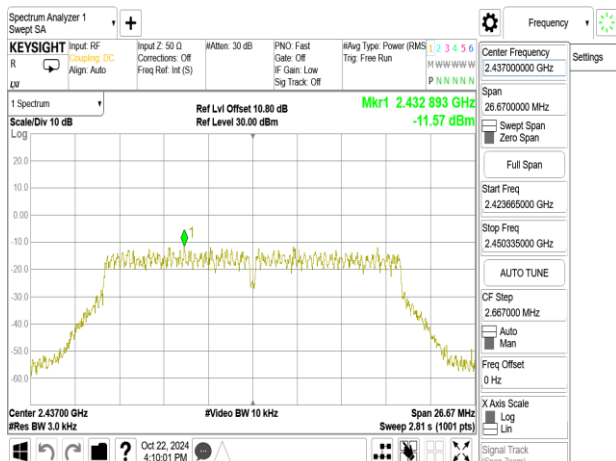
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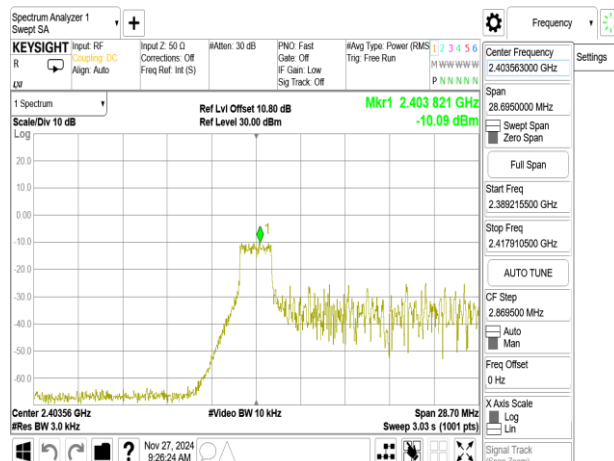
802.11ax_20MHz_Chain0_2412MHz



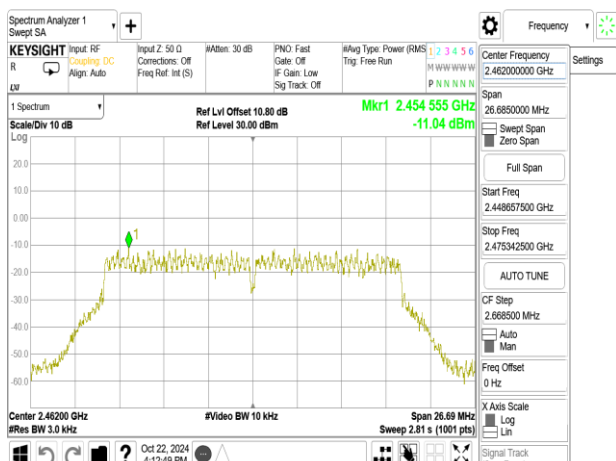
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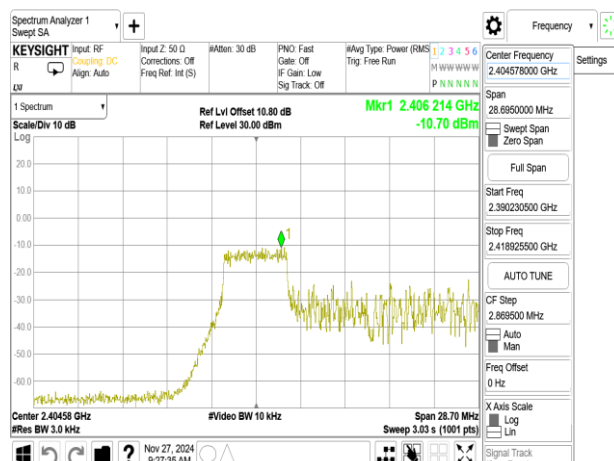
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802.11n_20MHz_Chain0_2462MHz



802.11ax_20MHz_Chain0_2412MHz_RU52_37

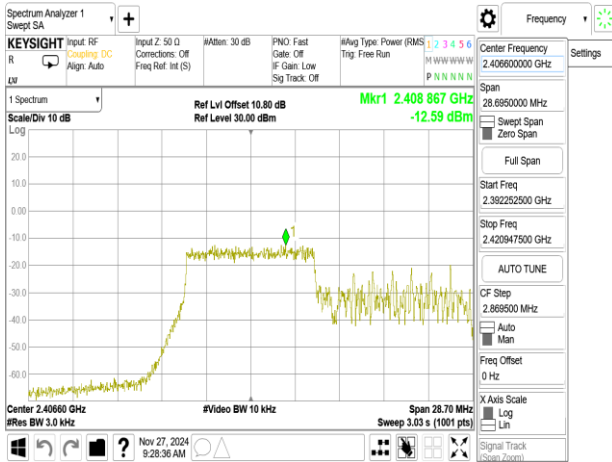


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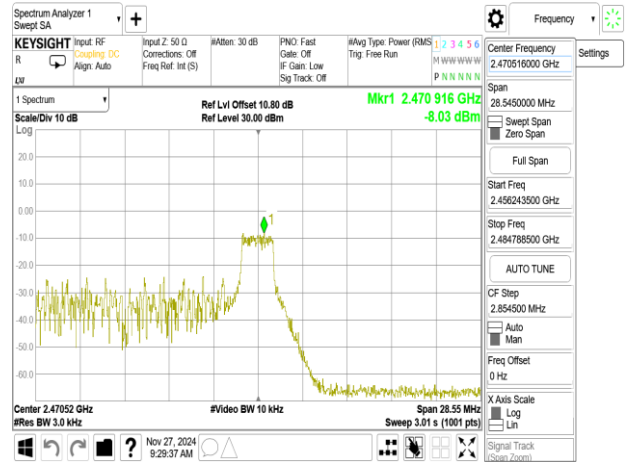
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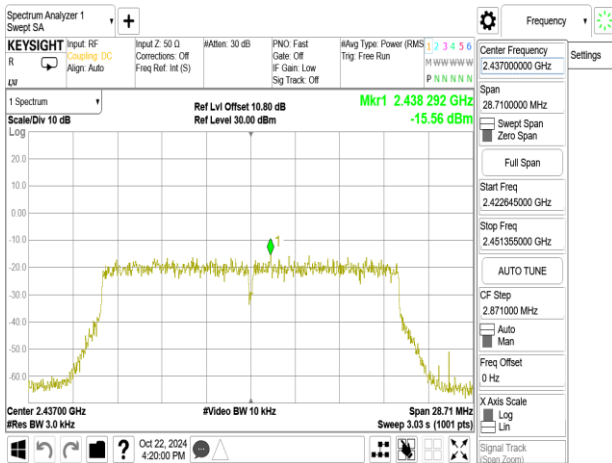
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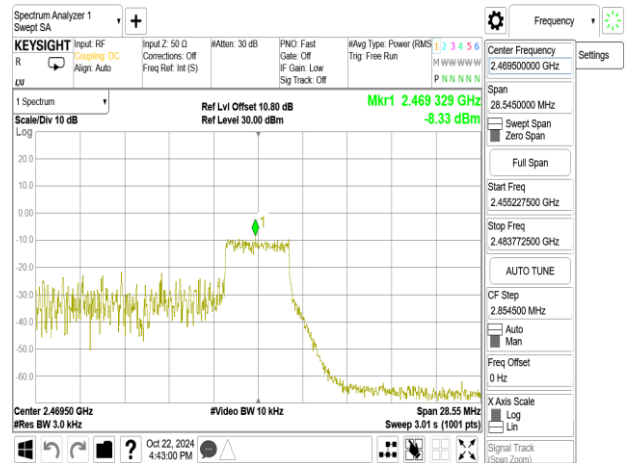
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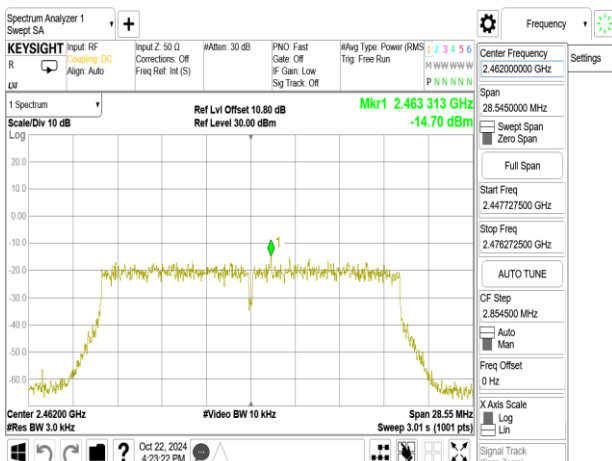
802.11ax_20MHz_Chain0_2437MHz



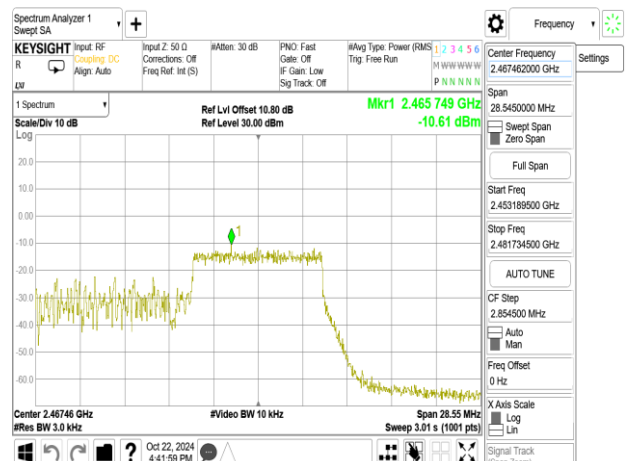
802.11ax_20MHz_Chain0_2462MHz_RU52_40



802.11ax_20MHz_Chain0_2462MHz



802.11ax_20MHz_Chain0_2462MHz_RU106_54



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13 ANTENNA REQUIREMENT

13.1 Standard Applicable

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

13.2 Antenna Connected Construction:

The antenna complies with this requirement and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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