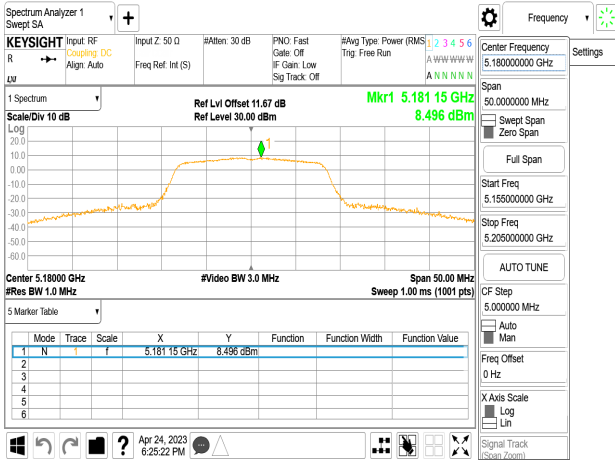
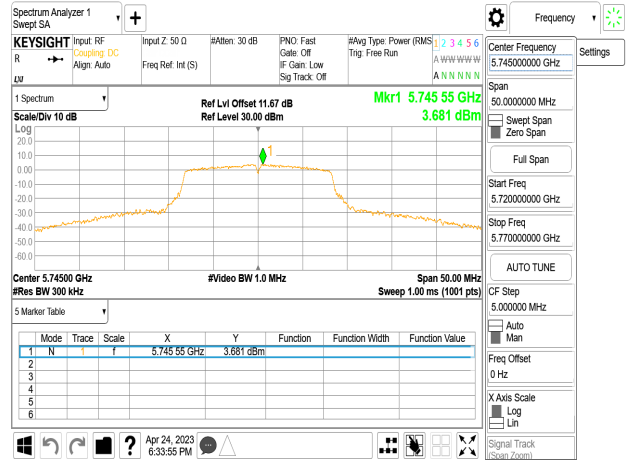


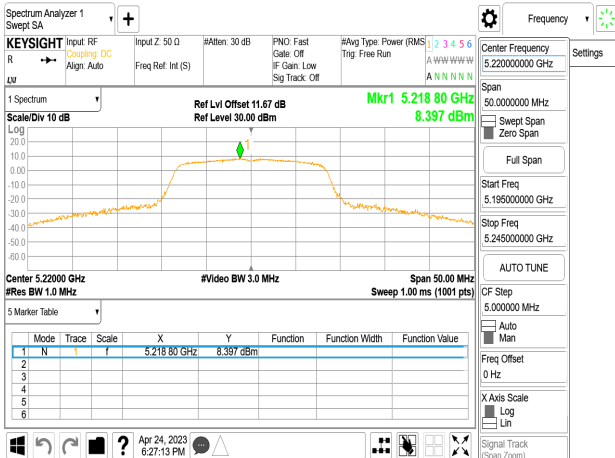
802.11a\_20MHz\_Chain0\_5180MHz



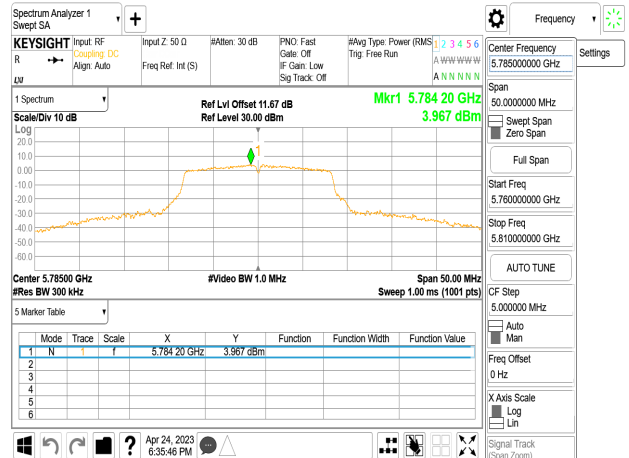
802.11a\_20MHz\_Chain0\_5745MHz



802.11a\_20MHz\_Chain0\_5220MHz



802.11a\_20MHz\_Chain0\_5785MHz



802.11a\_20MHz\_Chain0\_5240MHz



802.11a\_20MHz\_Chain0\_5825MHz

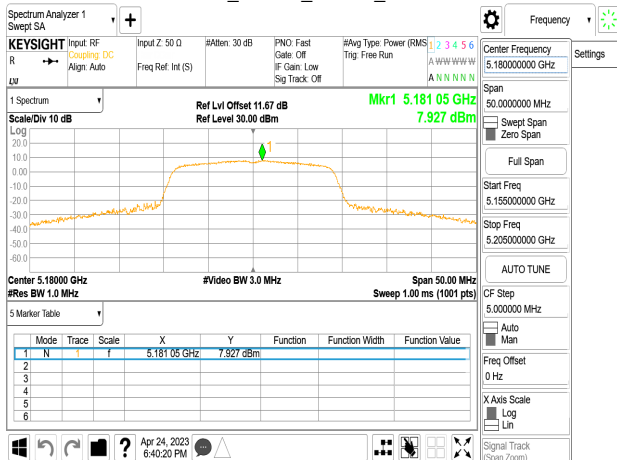


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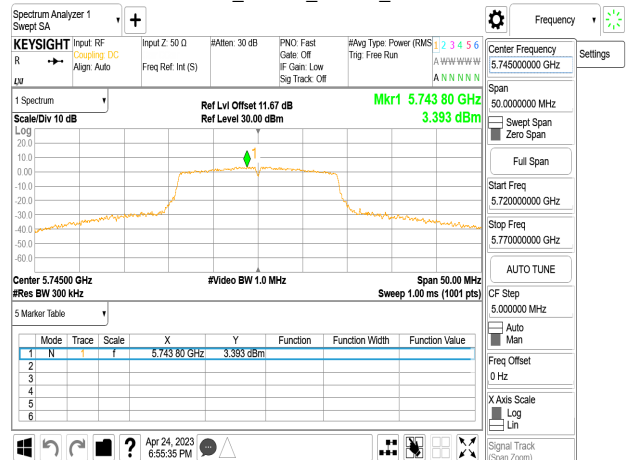
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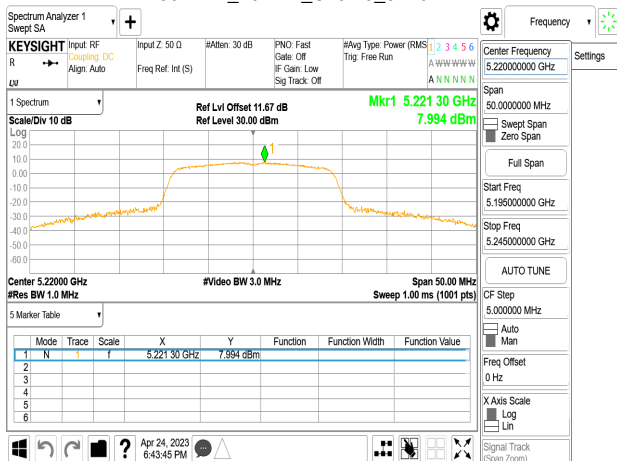
802.11n\_20MHz\_Chain0\_5180MHz



802.11n\_20MHz\_Chain0\_5745MHz



802.11n\_20MHz\_Chain0\_5220MHz



802.11n\_20MHz\_Chain0\_5785MHz



802.11n\_20MHz\_Chain0\_5240MHz



802.11n\_20MHz\_Chain0\_5825MHz

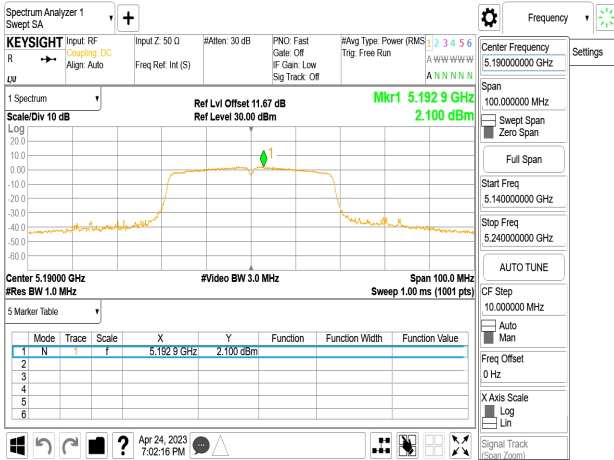


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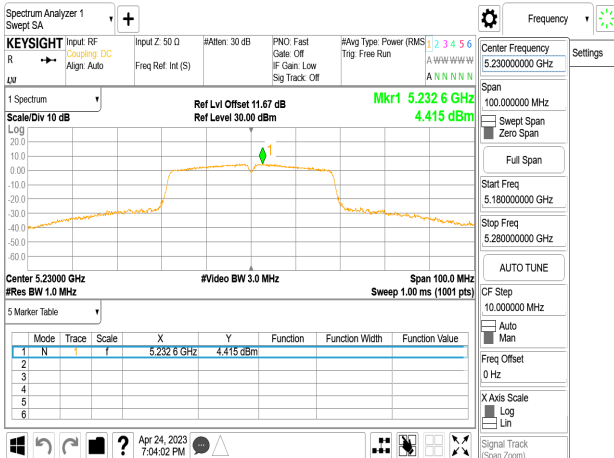
802.11n\_40MHz\_Chain0\_5190MHz



802.11n\_40MHz\_Chain0\_5795MHz



802.11n\_40MHz\_Chain0\_5230MHz



802.11ac\_80MHz\_Chain0\_5210MHz



802.11n\_40MHz\_Chain0\_5755MHz



802.11ac\_80MHz\_Chain0\_5775MHz



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## 11 UNDESIRABLE RADIATED EMISSION MEASUREMENT

### 11.1 Standard Applicable

$EIRP = (E^2 \cdot d^2) / 30$ , where  $E$  is the field strength in V/m,  $d$  is the measurement distance (3m),  $EIRP$  is the equivalent isotropically radiated power in Watts.

#### 11.1.1 5150~5850 MHz

Applicable to	Operation Freq. (MHz)	EIRP		Field Strength @ 3m (dBµV/m)
		Freq. (MHz)	Limits (dBm/MHz)	
15.407(b)(1) RSS-247 §6.2.1.2	5150~5250	f ≤ 5150 f ≥ 5350	PK: -27	PK: 68.2
15.407(b)(2) RSS-247 §6.2.2.2	5250~5350			
15.407(b)(3) RSS-247 §6.2.3.2	5475~5725			
15.407(b)(4)(i) RSS-247 §6.2.4.2	5725~5850	at 75 MHz or more above or below the band edge	PK:-27	PK: 68.2
		increasing linearly from 75~25MHz above or below the band edge	PK:-27~10	PK: 68.2~105.2
		increasing linearly from 25~5MHz above or below the band edge	PK:10~15.6	PK: 105.2~110.8
		increasing linearly from 5~0 MHz above or below the band edge	PK: 15.6~27	PK:110.8~122.2

#### 11.1.2 Spurious Emission

Unwanted spurious emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

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:**

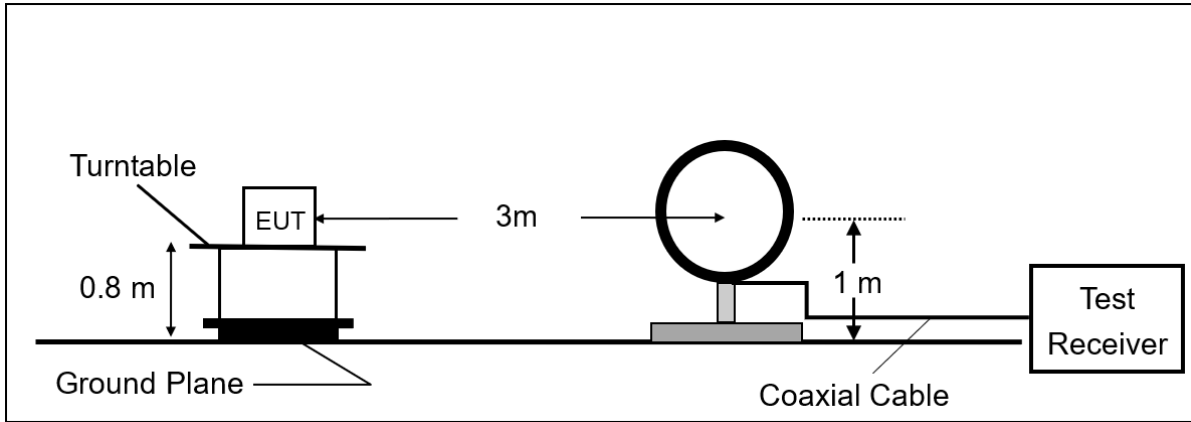
- The lower limit shall apply at the transition frequencies.

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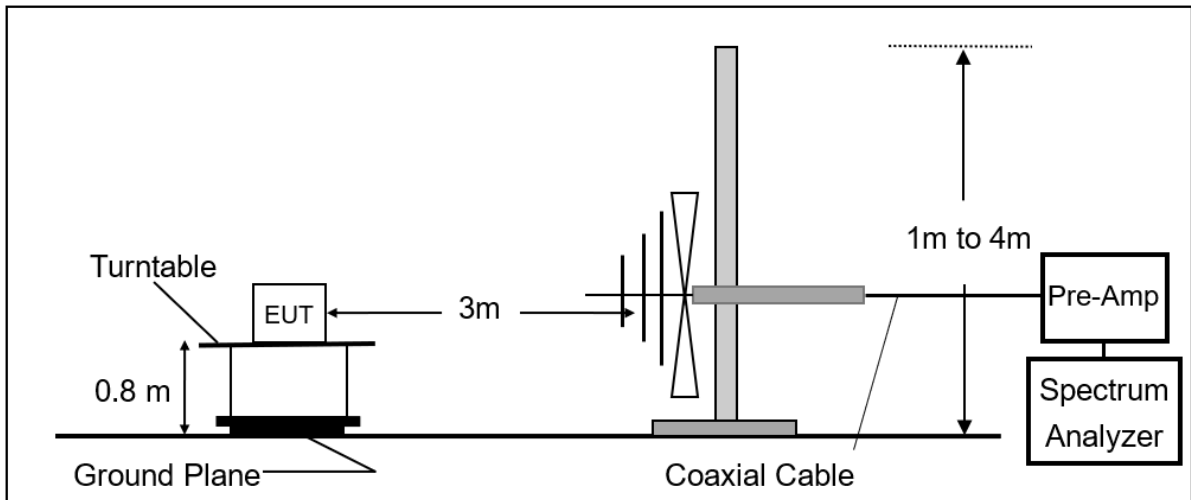
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### 11.2 Test Setup

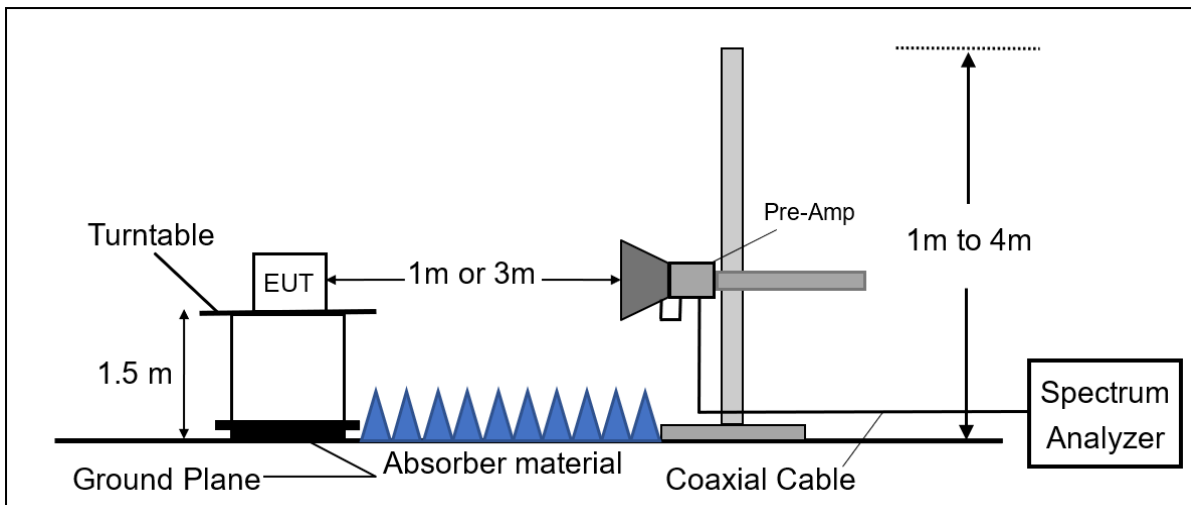
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



(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 FCC KDB 789033 D02.
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 frequency measured were complete.

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### 11.4 Field Strength Calculation

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

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

**Where** *FS* = Field Strength

*CL* = Cable Attenuation Factor (Cable Loss)

*RA* = Reading Amplitude

*AG* = Amplifier Gain

*AF* = Antenna Factor

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

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

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

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

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) & RSS-GEN §6.13.2 was not reported.

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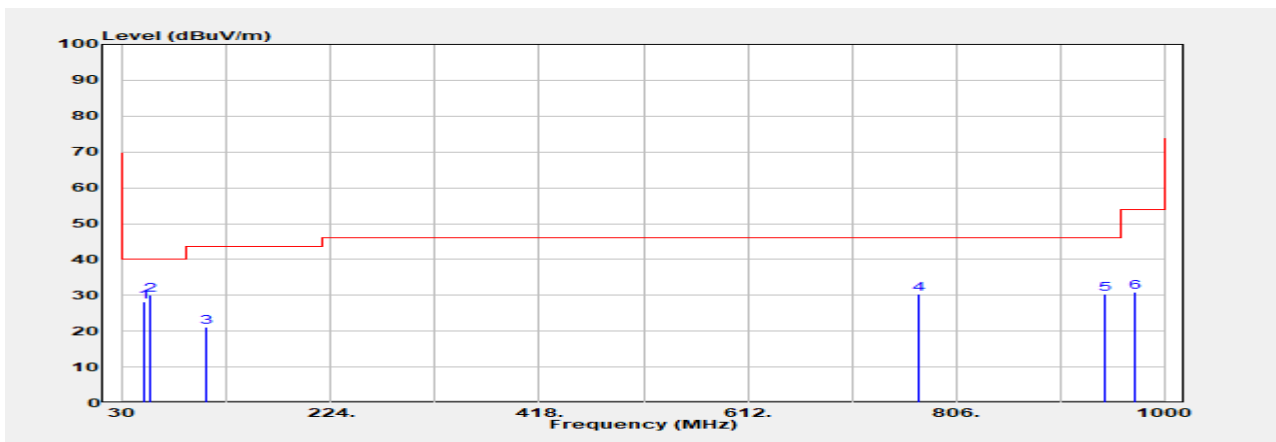
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## 11.6 Radiated Spurious Emission Measurement Result

### 11.6.1 Spurious Emission

Report Number	:TERF2303000624E2	Test Site	:SAC G Chamber
Operation Mode	:802.11a	Test Date	:2023-04-24
Test Frequency	:5220 MHz	Temp./Humi.	:21.3°C / 62%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
50.370	Peak	40.64	-12.42	28.22	40.00	-11.78
55.220	Peak	42.67	-12.72	29.95	40.00	-10.05
107.600	Peak	37.40	-16.40	21.00	43.50	-22.50
771.080	Peak	32.27	-1.92	30.35	46.00	-15.65
945.680	Peak	30.44	0.03	30.47	46.00	-15.53
972.840	Peak	30.08	0.92	31.00	54.00	-23.00

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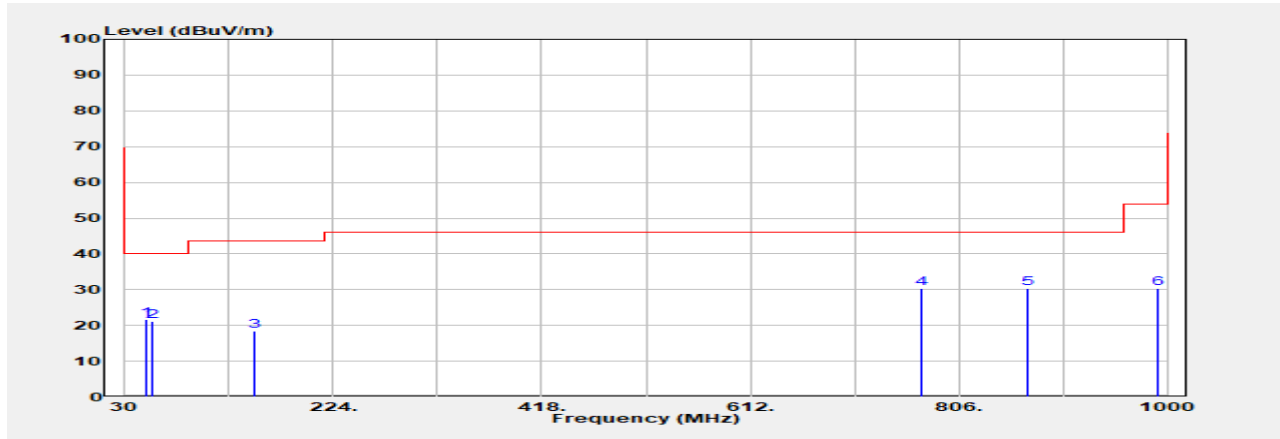
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Report Number :TERF2303000624E2  
 Operation Mode :802.11a  
 Test Frequency :5220 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-24  
 Temp./Humi. :21.3°C / 62%  
 Antenna Pol. :Horizontal  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
49.400	Peak	34.06	-12.43	21.63	40.00	-18.37
55.220	Peak	33.89	-12.72	21.17	40.00	-18.83
151.250	Peak	31.23	-12.71	18.52	43.50	-24.98
771.080	Peak	32.36	-1.92	30.44	46.00	-15.56
870.990	Peak	30.70	-0.29	30.41	46.00	-15.59
992.240	Peak	29.78	0.66	30.44	54.00	-23.56

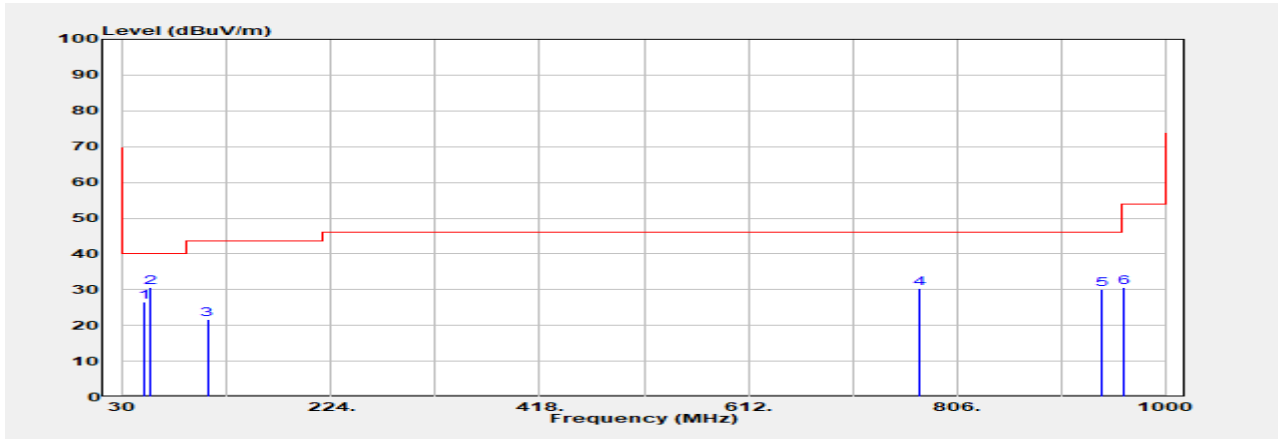
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Report Number :TERF2303000624E2  
 Operation Mode :802.11a  
 Test Frequency :5785 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-24  
 Temp./Humi. :21.3°C / 62%  
 Antenna Pol. :Vertical  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
49.400	Peak	38.95	-12.43	26.52	40.00	-13.48
56.190	Peak	43.36	-12.72	30.63	40.00	-9.37
108.570	Peak	37.97	-16.30	21.67	43.50	-21.83
771.080	Peak	32.37	-1.92	30.45	46.00	-15.55
940.830	Peak	30.41	-0.23	30.17	46.00	-15.83
961.200	Peak	29.81	0.85	30.66	54.00	-23.34

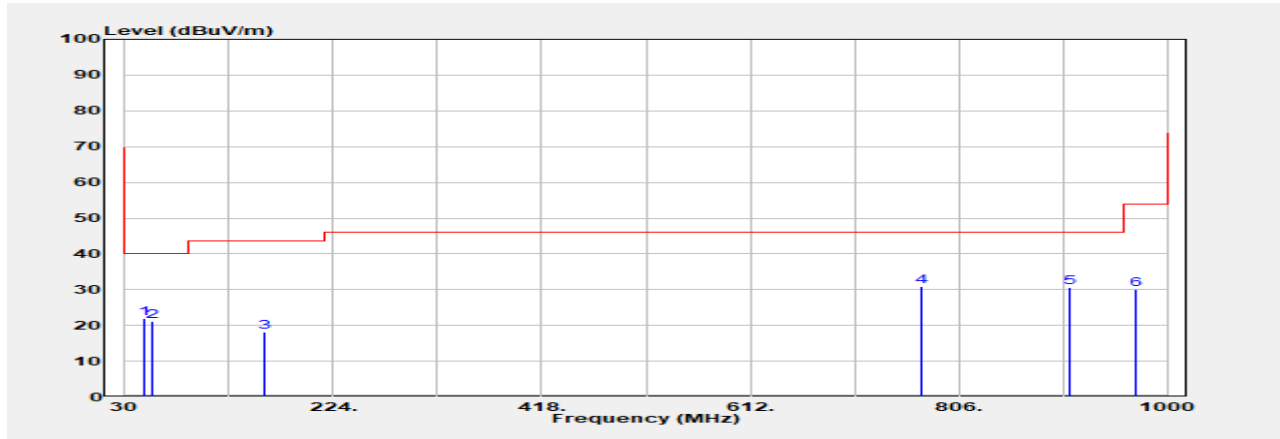
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Report Number :TERF2303000624E2  
 Operation Mode :802.11a  
 Test Frequency :5785 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-24  
 Temp./Humi. :21.3°C / 62%  
 Antenna Pol. :Horizontal  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
48.430	Peak	34.34	-12.44	21.90	40.00	-18.10
55.220	Peak	33.75	-12.72	21.03	40.00	-18.97
159.010	Peak	30.75	-12.52	18.22	43.50	-25.28
771.080	Peak	32.94	-1.92	31.01	46.00	-14.99
908.820	Peak	31.29	-0.60	30.70	46.00	-15.30
970.900	Peak	29.26	0.92	30.18	54.00	-23.82

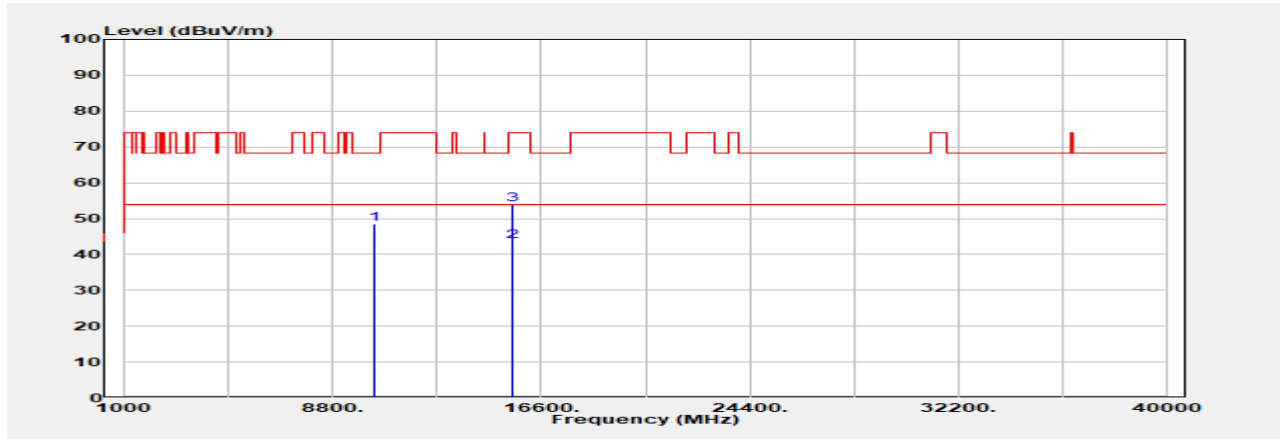
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Report Number :TERF2303000624E2  
 Operation Mode :802.11a  
 Test Frequency :5180 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-19  
 Temp./Humi. :23.5°C / 58%  
 Antenna Pol. :Vertical  
 Engineer :Temo Chen



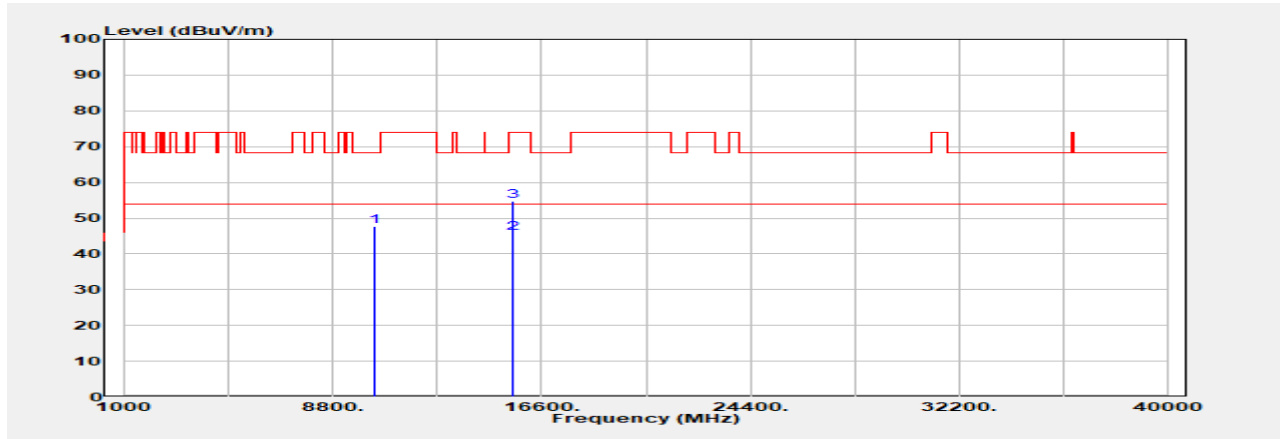
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10360.000	Peak	39.03	9.38	48.41	68.20	-19.79
15540.000	Average	31.76	11.96	43.72	54.00	-10.28
15540.000	Peak	41.89	11.96	53.85	74.00	-20.15

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Report Number :TERF2303000624E2  
 Operation Mode :802.11a  
 Test Frequency :5180 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-19  
 Temp./Humi. :23.5°C / 58%  
 Antenna Pol. :Horizontal  
 Engineer :Temo Chen



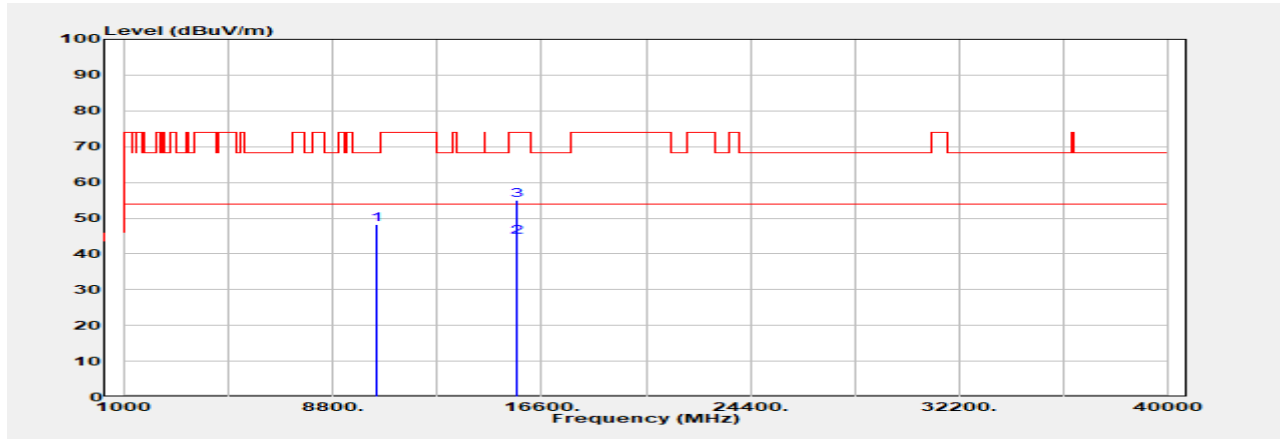
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.000	Peak	38.44	9.38	47.82	68.20	-20.38
15540.000	Average	33.94	11.96	45.90	54.00	-8.10
15540.000	Peak	42.86	11.96	54.82	74.00	-19.18

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Report Number :TERF2303000624E2  
 Operation Mode :802.11a  
 Test Frequency :5220 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-19  
 Temp./Humi. :23.5°C / 58%  
 Antenna Pol. :Vertical  
 Engineer :Temo Chen



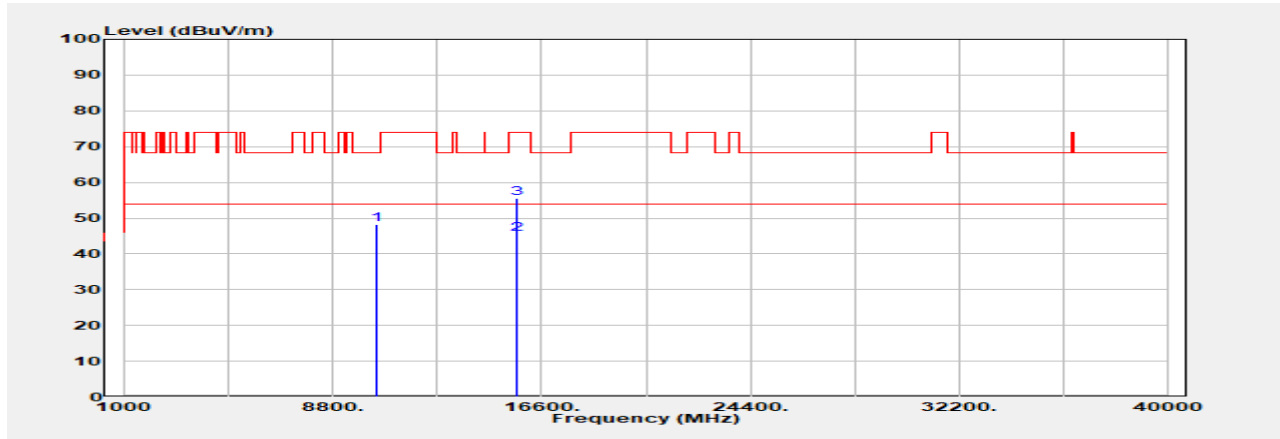
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10440.000	Peak	38.46	9.66	48.12	68.20	-20.08
15660.000	Average	32.27	12.32	44.59	54.00	-9.41
15660.000	Peak	42.64	12.32	54.96	74.00	-19.04

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Report Number :TERF2303000624E2  
 Operation Mode :802.11a  
 Test Frequency :5220 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-19  
 Temp./Humi. :23.5°C / 58%  
 Antenna Pol. :Horizontal  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10440.000	Peak	38.61	9.66	48.27	68.20	-19.93
15660.000	Average	33.16	12.32	45.48	54.00	-8.52
15660.000	Peak	43.34	12.32	55.66	74.00	-18.34

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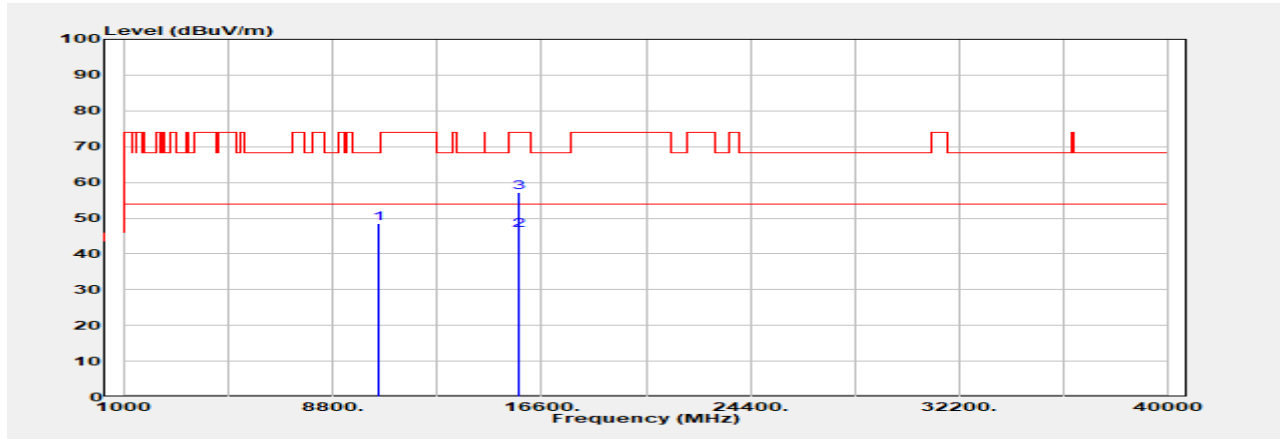
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Report Number :TERF2303000624E2  
 Operation Mode :802.11a  
 Test Frequency :5240 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-19  
 Temp./Humi. :23.5°C / 58%  
 Antenna Pol. :Vertical  
 Engineer :Temo Chen



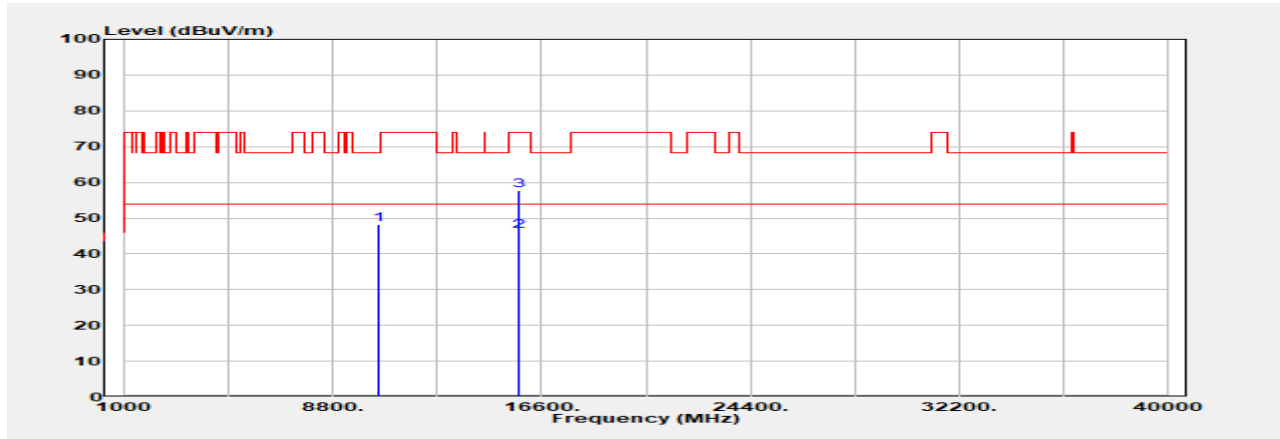
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10480.000	Peak	38.79	9.82	48.61	68.20	-19.59
15720.000	Average	34.02	12.56	46.58	54.00	-7.42
15720.000	Peak	44.70	12.56	57.26	74.00	-16.74

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Report Number :TERF2303000624E2  
 Operation Mode :802.11a  
 Test Frequency :5240 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-19  
 Temp./Humi. :23.5°C / 58%  
 Antenna Pol. :Horizontal  
 Engineer :Temo Chen



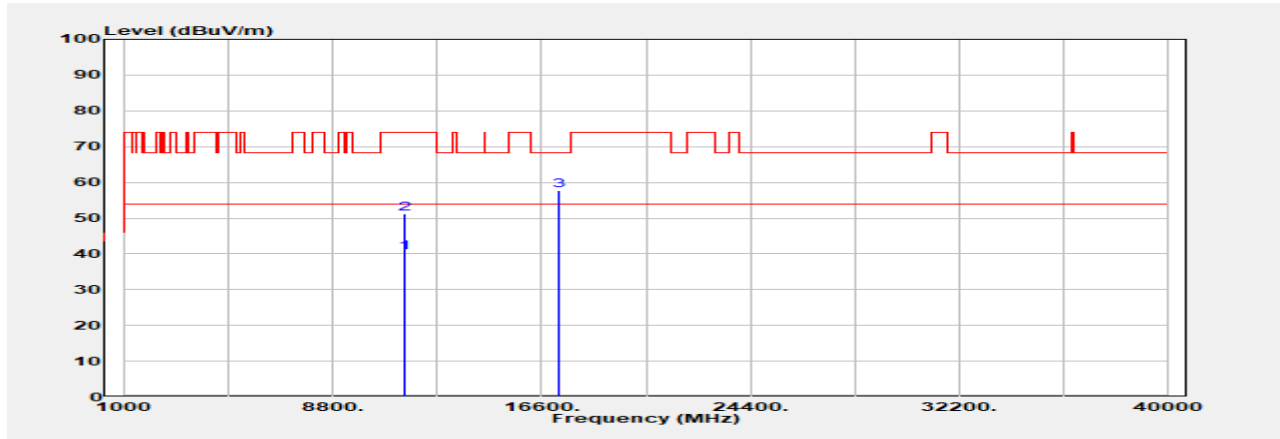
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.000	Peak	38.47	9.82	48.29	68.20	-19.91
15720.000	Average	33.91	12.56	46.47	54.00	-7.53
15720.000	Peak	45.16	12.56	57.72	74.00	-16.28

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Report Number :TERF2303000624E2  
 Operation Mode :802.11a  
 Test Frequency :5745 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-19  
 Temp./Humi. :23.5°C / 58%  
 Antenna Pol. :Vertical  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11490.000	Average	29.21	11.06	40.27	54.00	-13.73
11490.000	Peak	40.24	11.06	51.30	74.00	-22.70
17235.000	Peak	46.88	10.82	57.70	68.20	-10.50

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Report Number :TERF2303000624E2

Test Site :SAC G Chamber

Operation Mode :802.11a

Test Date :2023-04-19

Test Frequency :5745 MHz

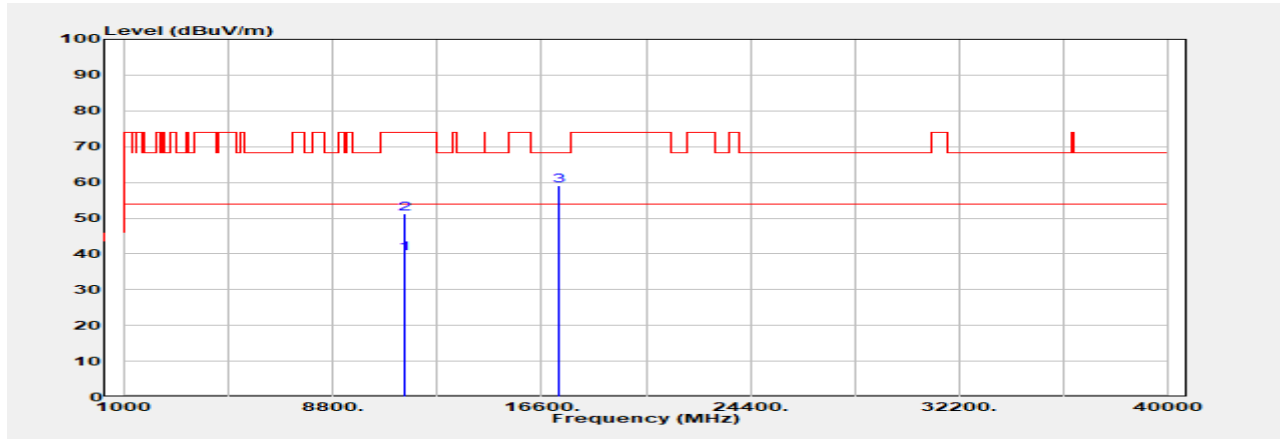
Temp./Humi. :23.5°C / 58%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.000	Average	29.16	11.06	40.22	54.00	-13.78
11490.000	Peak	40.14	11.06	51.20	74.00	-22.80
17235.000	Peak	48.30	10.82	59.12	68.20	-9.08

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Report Number :TERF2303000624E2

Test Site :SAC G Chamber

Operation Mode :802.11a

Test Date :2023-04-19

Test Frequency :5785 MHz

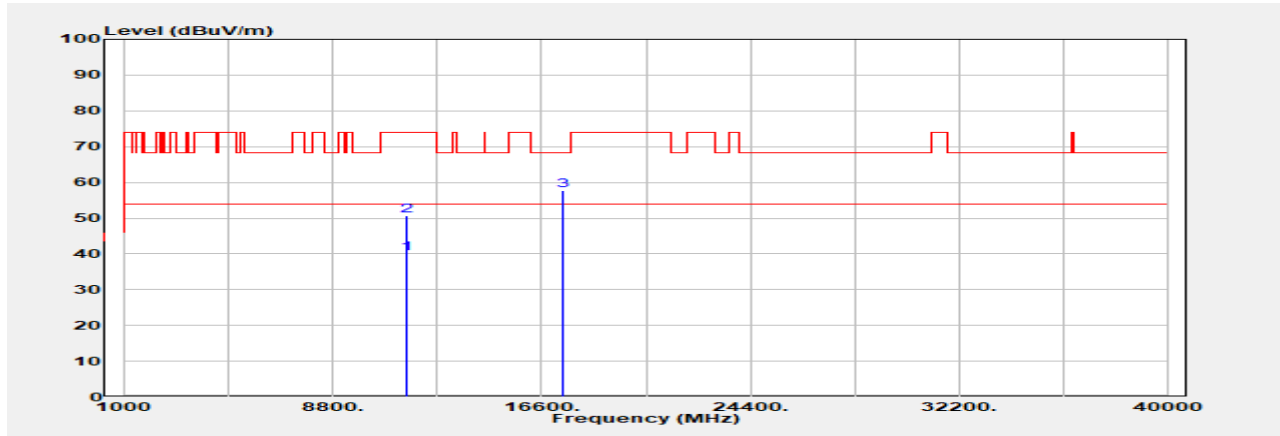
Temp./Humi. :23.5°C / 58%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.000	Average	29.93	10.15	40.08	54.00	-13.92
11570.000	Peak	40.43	10.15	50.58	74.00	-23.42
17355.000	Peak	46.00	11.82	57.82	68.20	-10.38

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Report Number :TERF2303000624E2

Test Site :SAC G Chamber

Operation Mode :802.11a

Test Date :2023-04-19

Test Frequency :5785 MHz

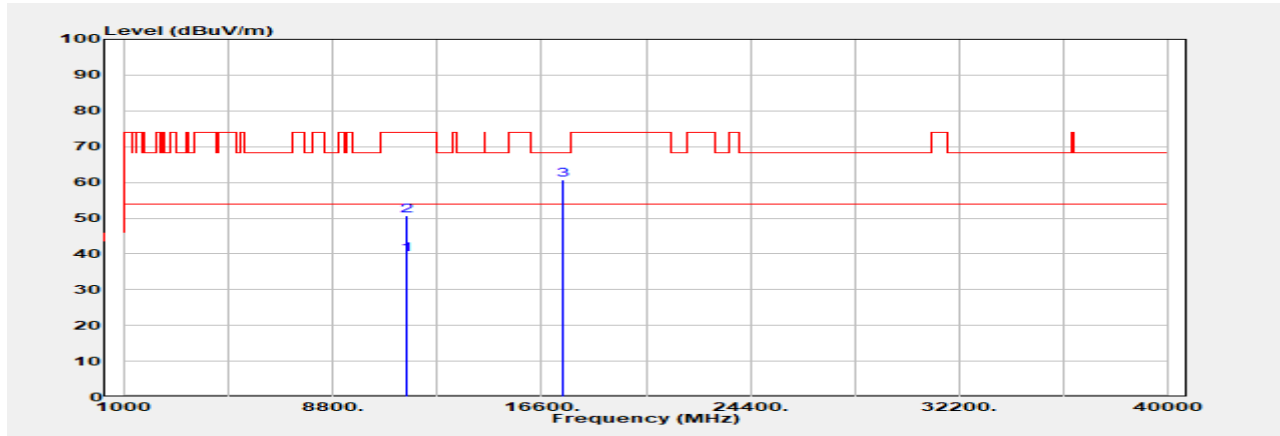
Temp./Humi. :23.5°C / 58%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11570.000	Average	29.82	10.15	39.97	54.00	-14.03
11570.000	Peak	40.46	10.15	50.61	74.00	-23.39
17355.000	Peak	48.88	11.82	60.70	68.20	-7.50

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Report Number :TERF2303000624E2

Test Site :SAC G Chamber

Operation Mode :802.11a

Test Date :2023-04-19

Test Frequency :5825 MHz

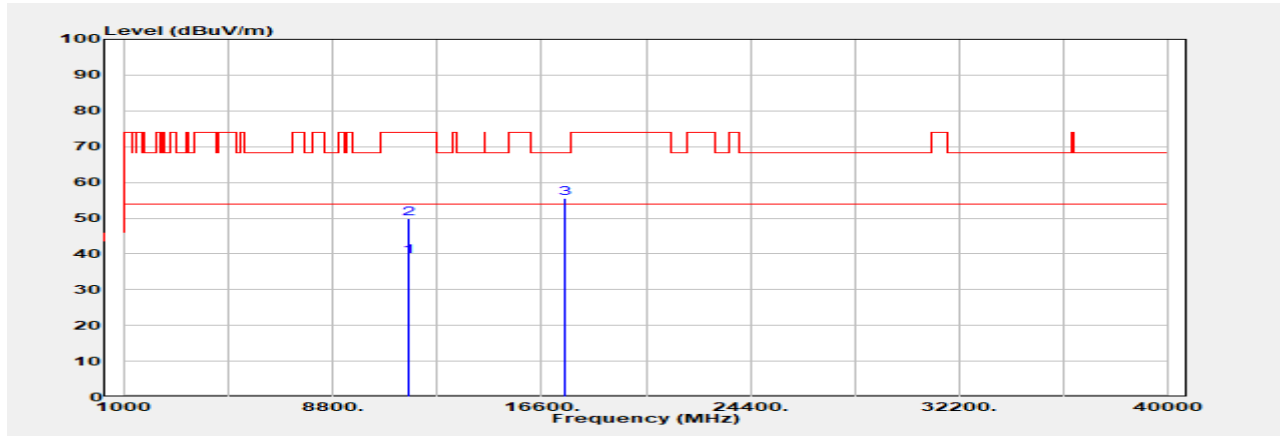
Temp./Humi. :23.5°C / 58%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11650.000	Average	29.23	10.05	39.28	54.00	-14.72
11650.000	Peak	39.68	10.05	49.73	74.00	-24.27
17475.000	Peak	44.56	11.10	55.66	68.20	-12.54

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Report Number :TERF2303000624E2

Test Site :SAC G Chamber

Operation Mode :802.11a

Test Date :2023-04-19

Test Frequency :5825 MHz

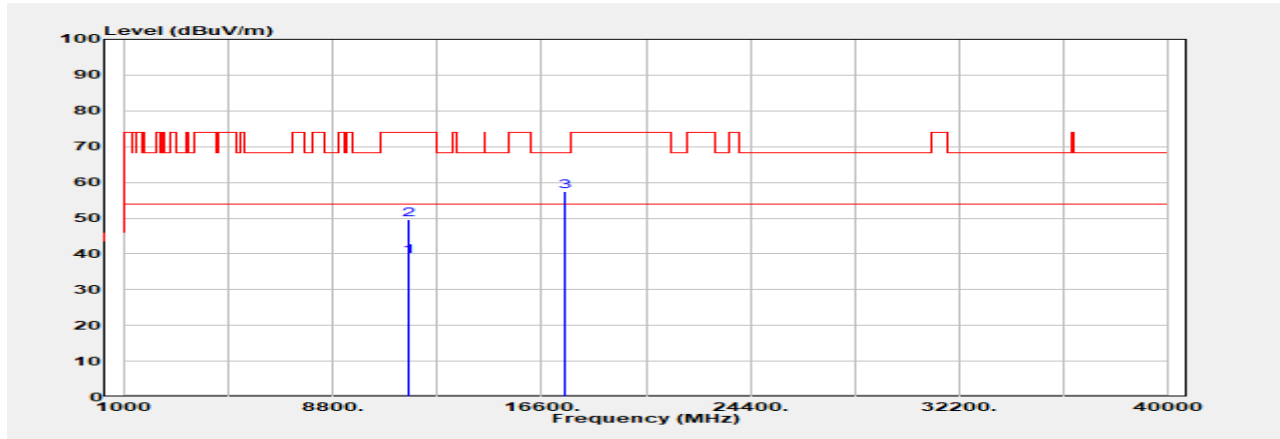
Temp./Humi. :23.5°C / 58%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Temo Chen



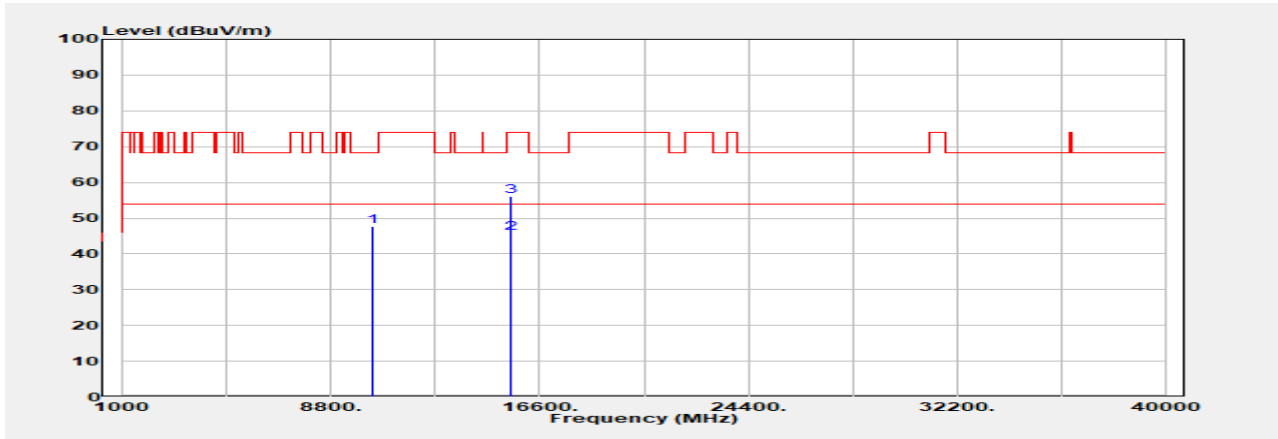
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.000	Average	29.15	10.05	39.20	54.00	-14.80
11650.000	Peak	39.68	10.05	49.73	74.00	-24.27
17475.000	Peak	46.36	11.10	57.46	68.20	-10.74

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Report Number :TERF2303000624E2  
 Operation Mode :802.11n20  
 Test Frequency :5180 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-19  
 Temp./Humi. :23.5°C / 58%  
 Antenna Pol. :Vertical  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10360.000	Peak	38.42	9.38	47.80	68.20	-20.40
15540.000	Average	33.72	11.96	45.68	54.00	-8.32
15540.000	Peak	44.20	11.96	56.16	74.00	-17.84

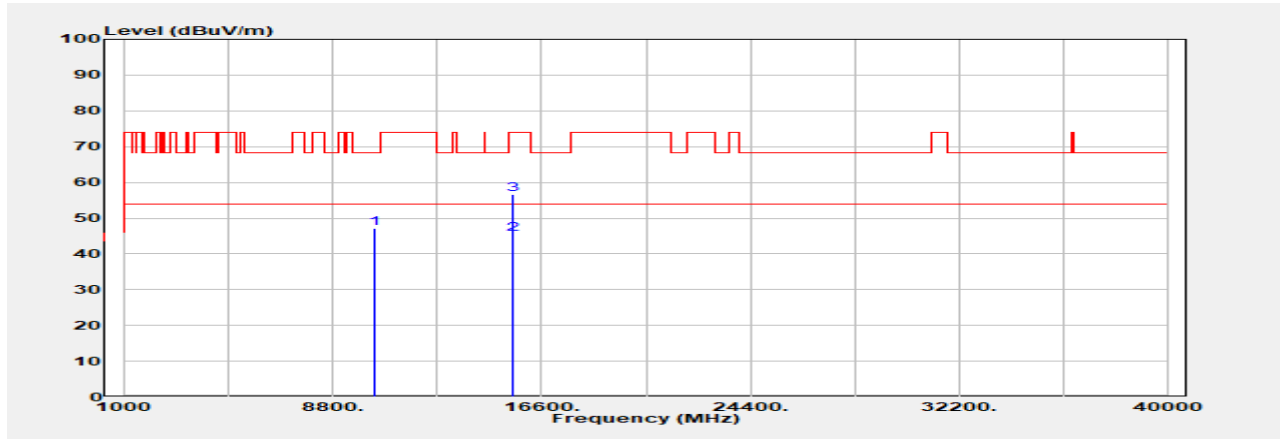
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Report Number :TERF2303000624E2  
 Operation Mode :802.11n20  
 Test Frequency :5180 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-19  
 Temp./Humi. :23.5°C / 58%  
 Antenna Pol. :Horizontal  
 Engineer :Temo Chen



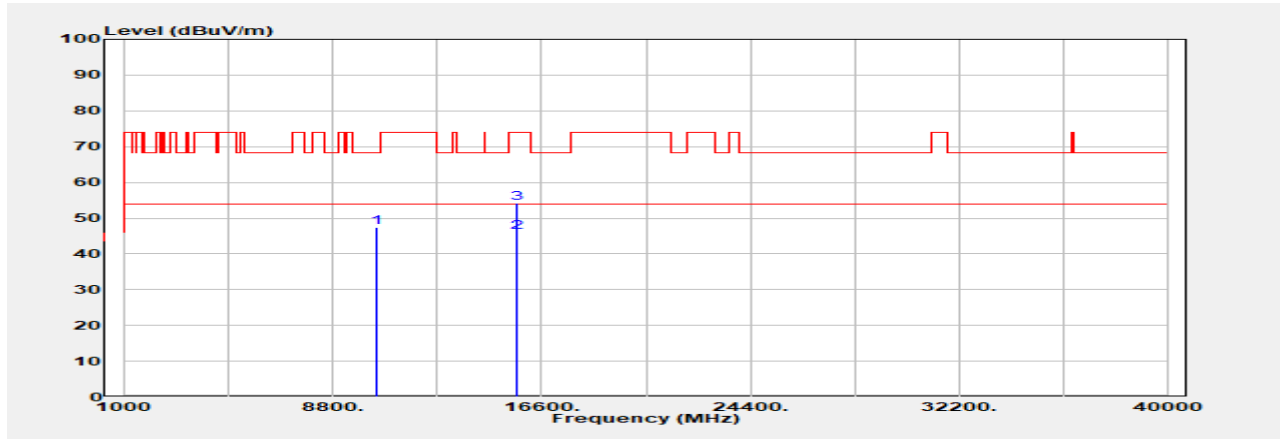
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10360.000	Peak	37.86	9.38	47.24	68.20	-20.96
15540.000	Average	33.53	11.96	45.49	54.00	-8.51
15540.000	Peak	44.58	11.96	56.54	74.00	-17.46

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Report Number :TERF2303000624E2  
 Operation Mode :802.11n20  
 Test Frequency :5220 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-19  
 Temp./Humi. :23.5°C / 58%  
 Antenna Pol. :Vertical  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10440.000	Peak	37.86	9.66	47.52	68.20	-20.68
15660.000	Average	33.76	12.32	46.08	54.00	-7.92
15660.000	Peak	41.76	12.32	54.08	74.00	-19.92

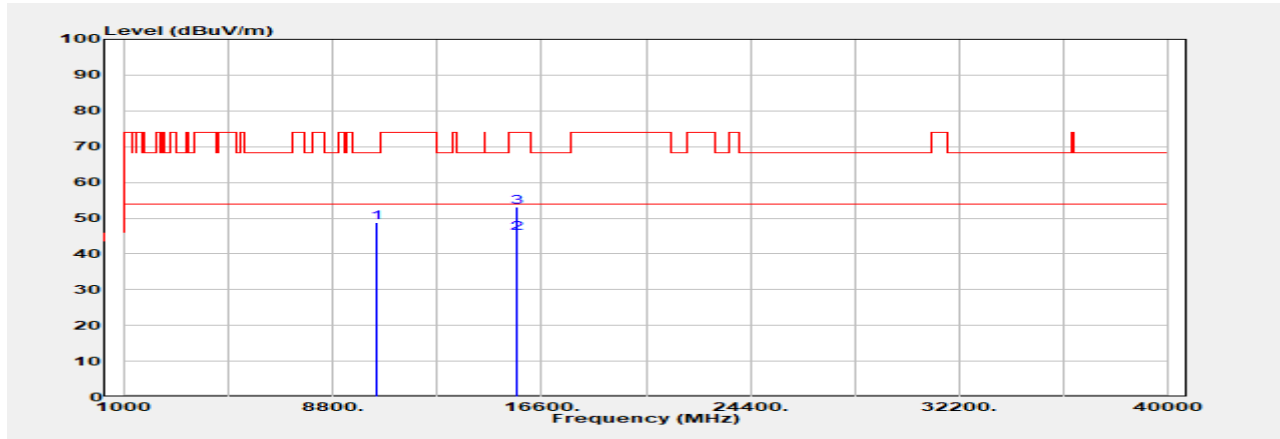
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Report Number :TERF2303000624E2  
 Operation Mode :802.11n20  
 Test Frequency :5220 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-19  
 Temp./Humi. :23.5°C / 58%  
 Antenna Pol. :Horizontal  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10440.000	Peak	39.08	9.66	48.74	68.20	-19.46
15660.000	Average	33.51	12.32	45.83	54.00	-8.17
15660.000	Peak	40.85	12.32	53.18	74.00	-20.82

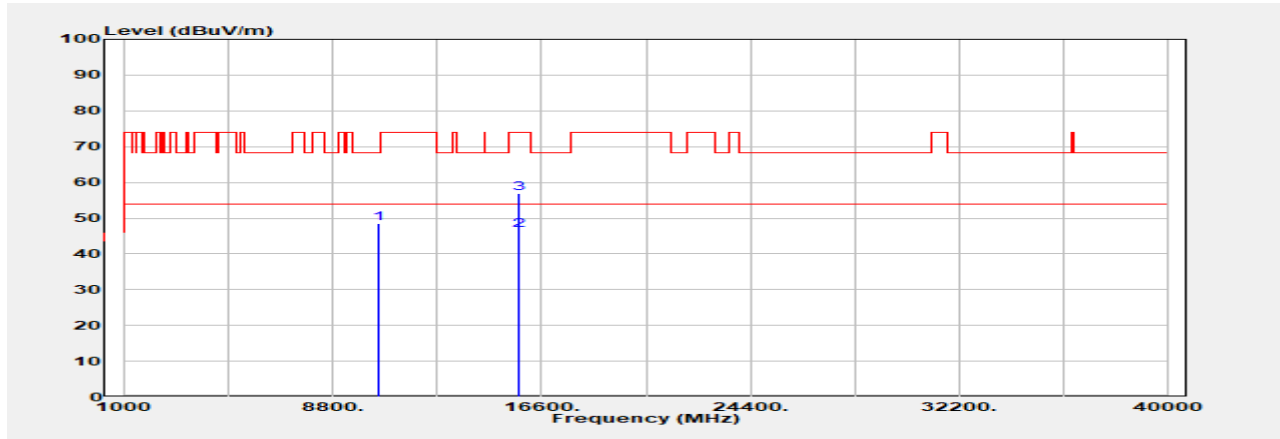
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Report Number :TERF2303000624E2  
 Operation Mode :802.11n20  
 Test Frequency :5240 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-19  
 Temp./Humi. :23.5°C / 58%  
 Antenna Pol. :Vertical  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.000	Peak	38.68	9.82	48.50	68.20	-19.70
15720.000	Average	34.18	12.56	46.74	54.00	-7.26
15720.000	Peak	44.44	12.56	57.00	74.00	-17.00

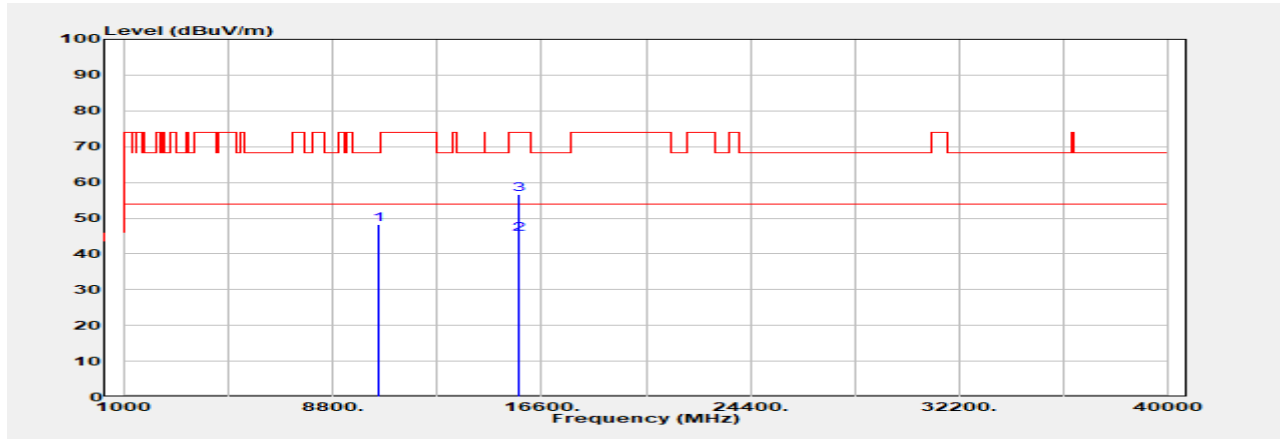
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Report Number :TERF2303000624E2  
 Operation Mode :802.11n20  
 Test Frequency :5240 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-19  
 Temp./Humi. :23.5°C / 58%  
 Antenna Pol. :Horizontal  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10480.000	Peak	38.47	9.82	48.29	68.20	-19.91
15720.000	Average	33.01	12.56	45.57	54.00	-8.43
15720.000	Peak	44.05	12.56	56.61	74.00	-17.39

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Report Number :TERF2303000624E2

Test Site :SAC G Chamber

Operation Mode :802.11n20

Test Date :2023-04-19

Test Frequency :5745 MHz

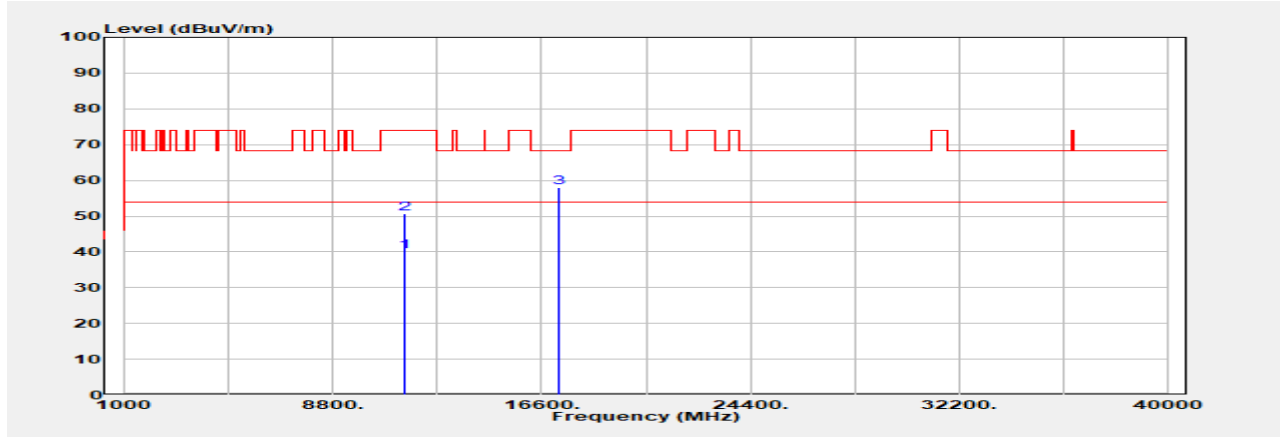
Temp./Humi. :23.5°C / 58%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.000	Average	29.13	11.06	40.19	54.00	-13.81
11490.000	Peak	39.59	11.06	50.65	74.00	-23.35
17235.000	Peak	47.09	10.82	57.92	68.20	-10.28

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Report Number :TERF2303000624E2

Test Site :SAC G Chamber

Operation Mode :802.11n20

Test Date :2023-04-19

Test Frequency :5745 MHz

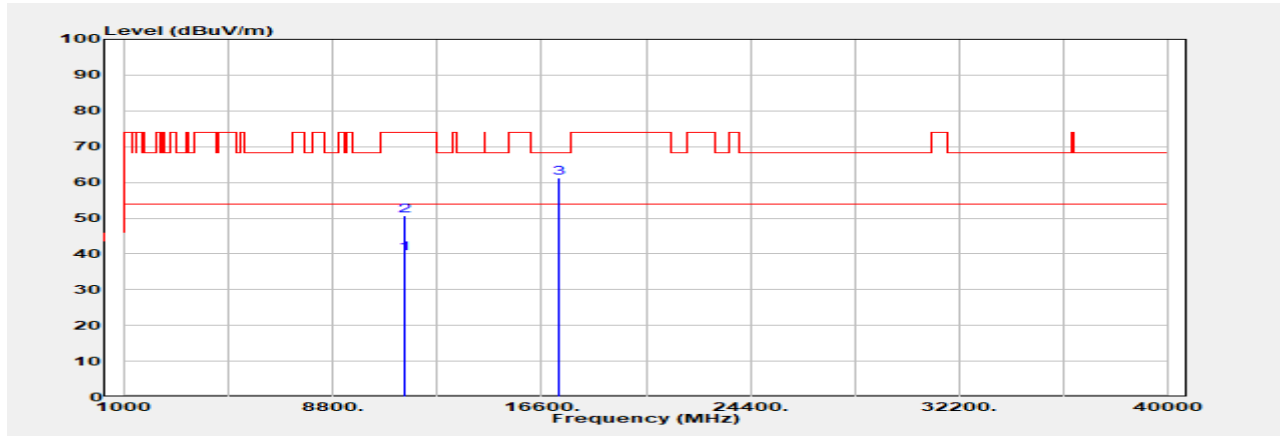
Temp./Humi. :23.5°C / 58%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Temo Chen



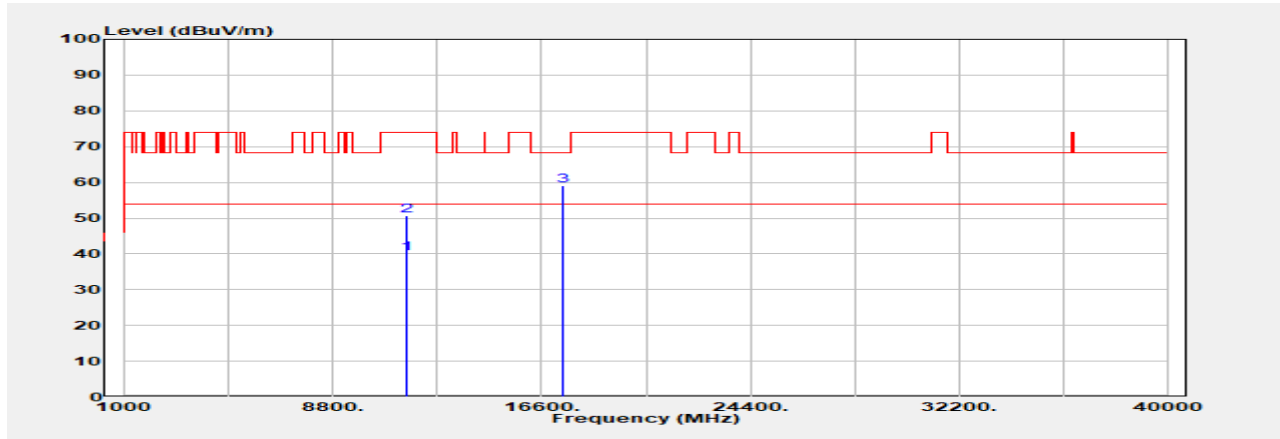
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11490.000	Average	29.16	11.06	40.22	54.00	-13.78
11490.000	Peak	39.69	11.06	50.75	74.00	-23.25
17235.000	Peak	50.39	10.82	61.21	68.20	-6.99

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Report Number :TERF2303000624E2  
 Operation Mode :802.11n20  
 Test Frequency :5785 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-19  
 Temp./Humi. :23.5°C / 58%  
 Antenna Pol. :Vertical  
 Engineer :Temo Chen



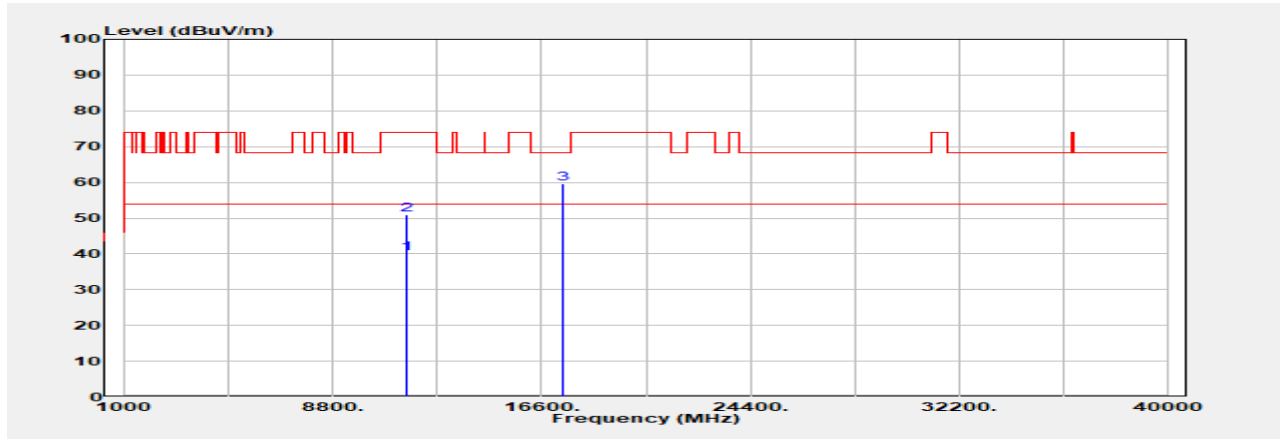
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11570.000	Average	29.87	10.15	40.02	54.00	-13.98
11570.000	Peak	40.57	10.15	50.72	74.00	-23.28
17355.000	Peak	47.20	11.82	59.02	68.20	-9.18

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Report Number :TERF2303000624E2  
 Operation Mode :802.11n20  
 Test Frequency :5785 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-19  
 Temp./Humi. :23.5°C / 58%  
 Antenna Pol. :Horizontal  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.000	Average	29.82	10.15	39.97	54.00	-14.03
11570.000	Peak	40.83	10.15	50.98	74.00	-23.02
17355.000	Peak	47.93	11.82	59.75	68.20	-8.45

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Report Number :TERF2303000624E2

Test Site :SAC G Chamber

Operation Mode :802.11n20

Test Date :2023-04-19

Test Frequency :5825 MHz

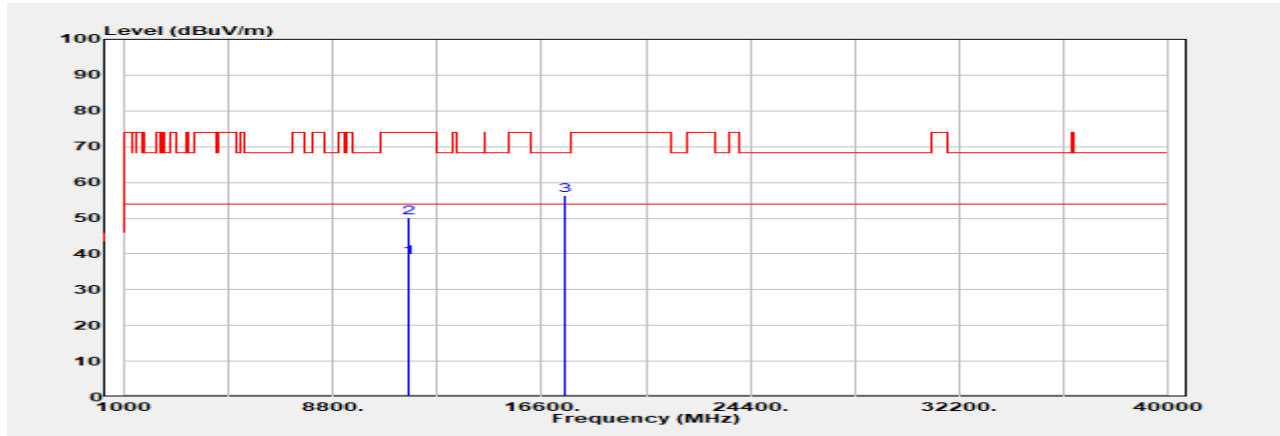
Temp./Humi. :23.5°C / 58%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11650.000	Average	29.07	10.05	39.13	54.00	-14.87
11650.000	Peak	39.95	10.05	50.00	74.00	-24.00
17475.000	Peak	45.16	11.10	56.26	68.20	-11.94

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Report Number :TERF2303000624E2

Test Site :SAC G Chamber

Operation Mode :802.11n20

Test Date :2023-04-19

Test Frequency :5825 MHz

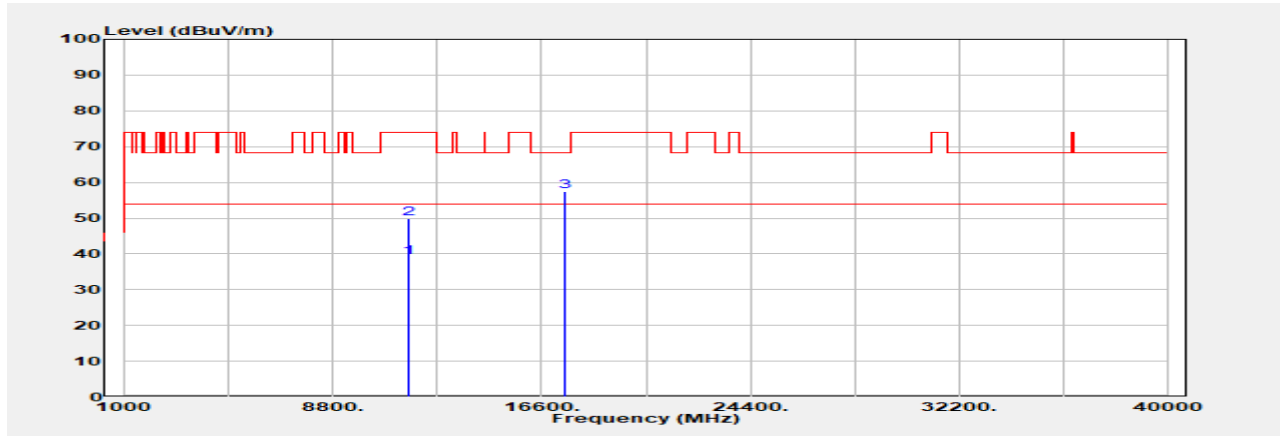
Temp./Humi. :23.5°C / 58%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11650.000	Average	29.02	10.05	39.07	54.00	-14.93
11650.000	Peak	39.77	10.05	49.82	74.00	-24.18
17475.000	Peak	46.31	11.10	57.41	68.20	-10.79

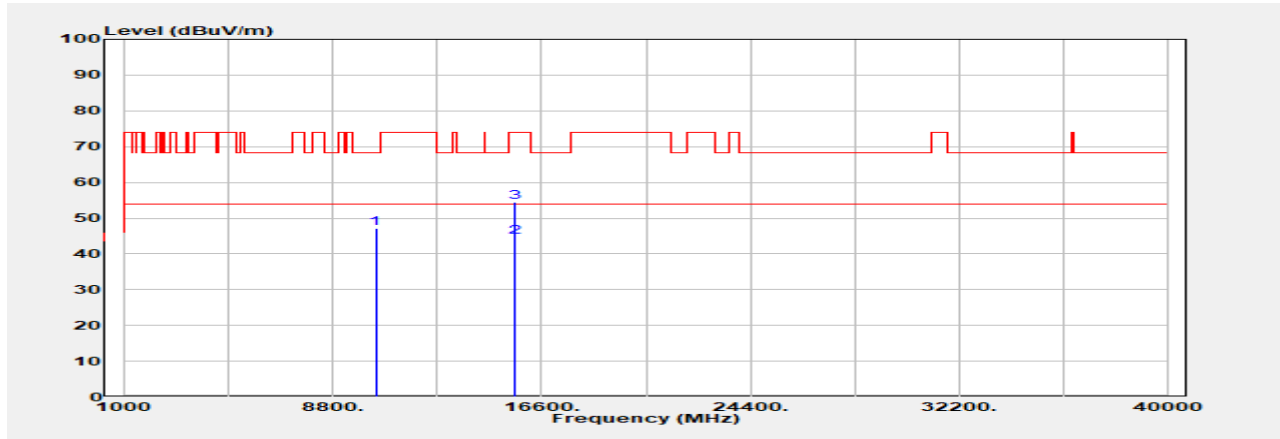
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Report Number :TERF2303000624E2  
 Operation Mode :802.11n40  
 Test Frequency :5190 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-19  
 Temp./Humi. :23.5°C / 58%  
 Antenna Pol. :Vertical  
 Engineer :Temo Chen



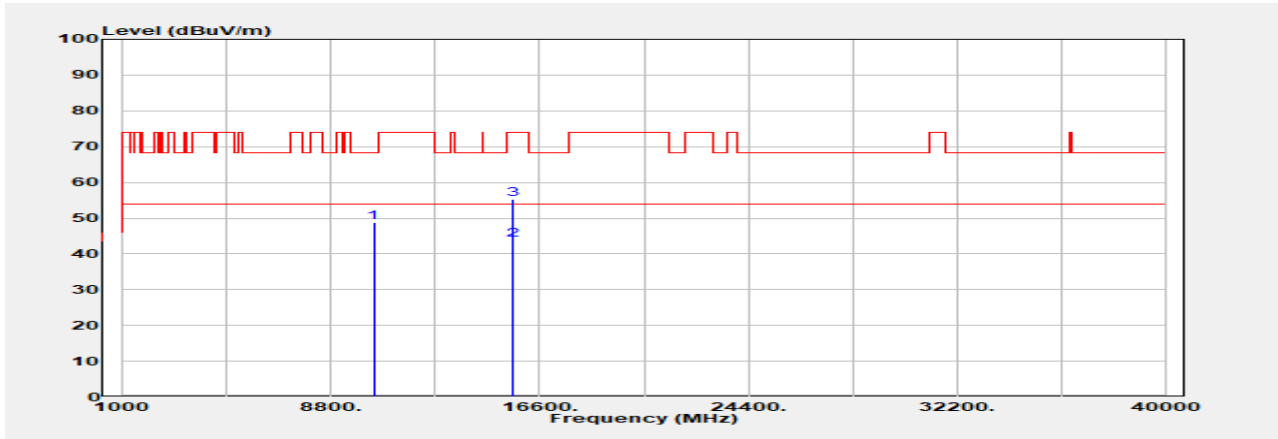
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10380.000	Peak	37.68	9.44	47.12	68.20	-21.08
15570.000	Average	32.67	11.93	44.60	54.00	-9.40
15570.000	Peak	42.67	11.93	54.60	74.00	-19.40

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Report Number :TERF2303000624E2  
 Operation Mode :802.11n40  
 Test Frequency :5190 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-19  
 Temp./Humi. :23.5°C / 58%  
 Antenna Pol. :Horizontal  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10380.000	Peak	39.29	9.44	48.73	68.20	-19.47
15570.000	Average	32.03	11.93	43.96	54.00	-10.04
15570.000	Peak	43.41	11.93	55.34	74.00	-18.66

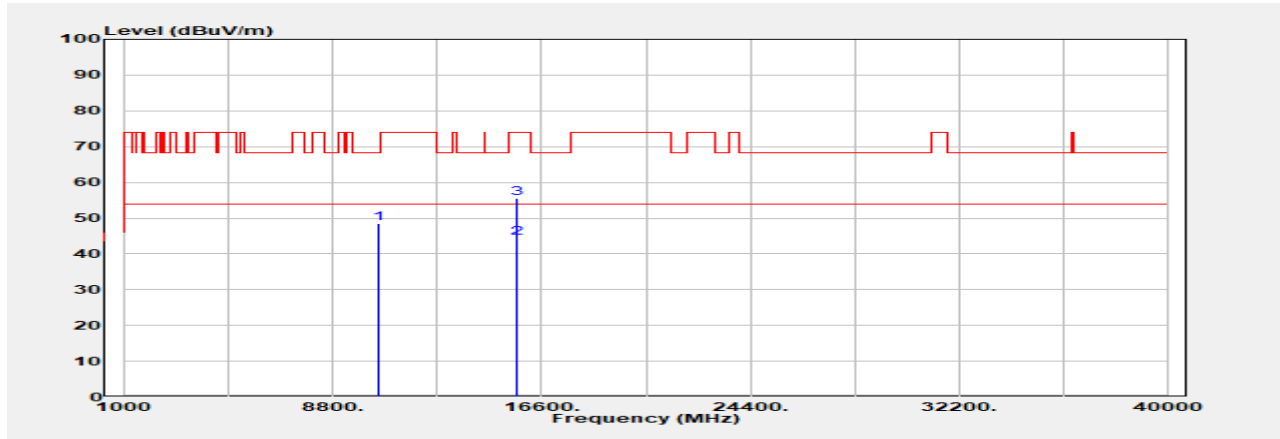
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Report Number :TERF2303000624E2  
 Operation Mode :802.11n40  
 Test Frequency :5230 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-19  
 Temp./Humi. :23.5°C / 58%  
 Antenna Pol. :Vertical  
 Engineer :Temo Chen



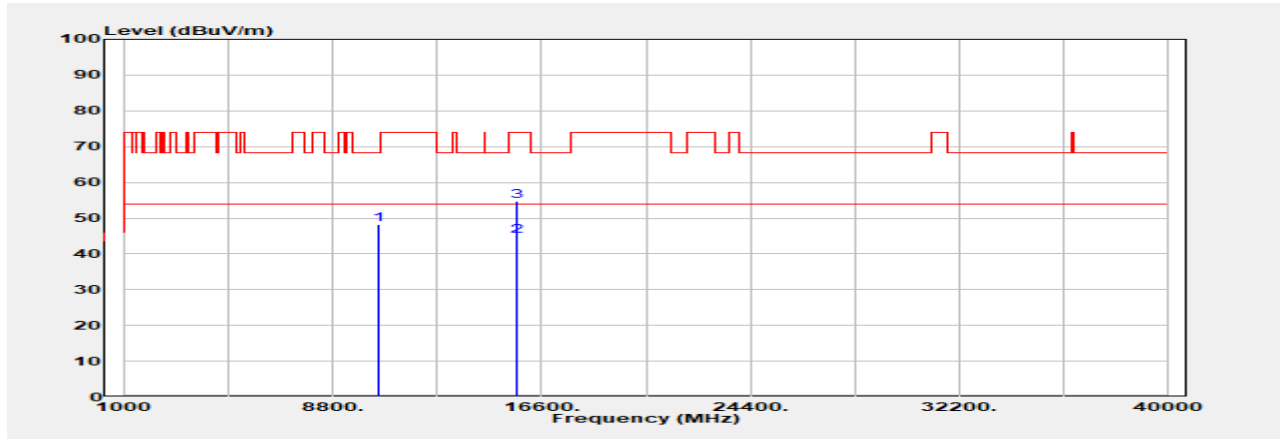
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10460.000	Peak	38.71	9.74	48.45	68.20	-19.75
15690.000	Average	31.92	12.53	44.45	54.00	-9.55
15690.000	Peak	42.98	12.53	55.51	74.00	-18.49

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Report Number :TERF2303000624E2  
 Operation Mode :802.11n40  
 Test Frequency :5230 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-19  
 Temp./Humi. :23.5°C / 58%  
 Antenna Pol. :Horizontal  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10460.000	Peak	38.57	9.74	48.31	68.20	-19.89
15690.000	Average	32.39	12.53	44.92	54.00	-9.08
15690.000	Peak	42.25	12.53	54.78	74.00	-19.22

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Report Number :TERF2303000624E2

Test Site :SAC G Chamber

Operation Mode :802.11n40

Test Date :2023-04-19

Test Frequency :5755 MHz

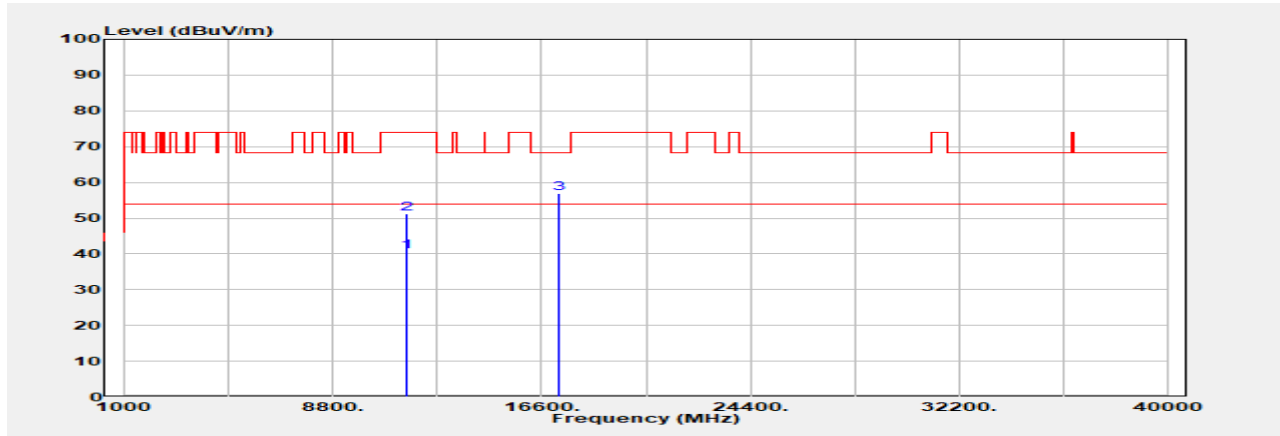
Temp./Humi. :23.5°C / 58%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11510.000	Average	29.52	11.05	40.57	54.00	-13.43
11510.000	Peak	40.24	11.05	51.29	74.00	-22.71
17265.000	Peak	45.67	11.18	56.85	68.20	-11.35

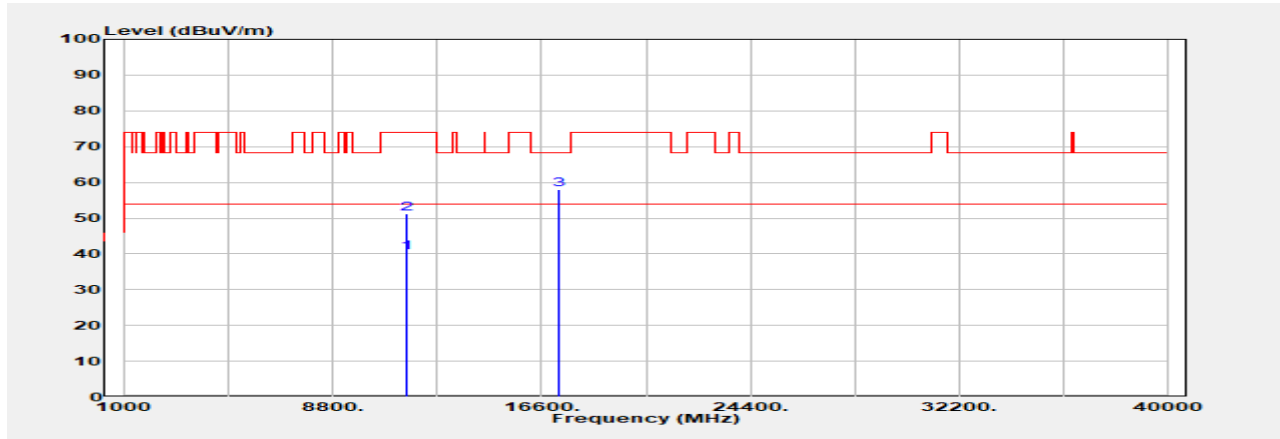
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Report Number :TERF2303000624E2  
 Operation Mode :802.11n40  
 Test Frequency :5755 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-19  
 Temp./Humi. :23.5°C / 58%  
 Antenna Pol. :Horizontal  
 Engineer :Temo Chen



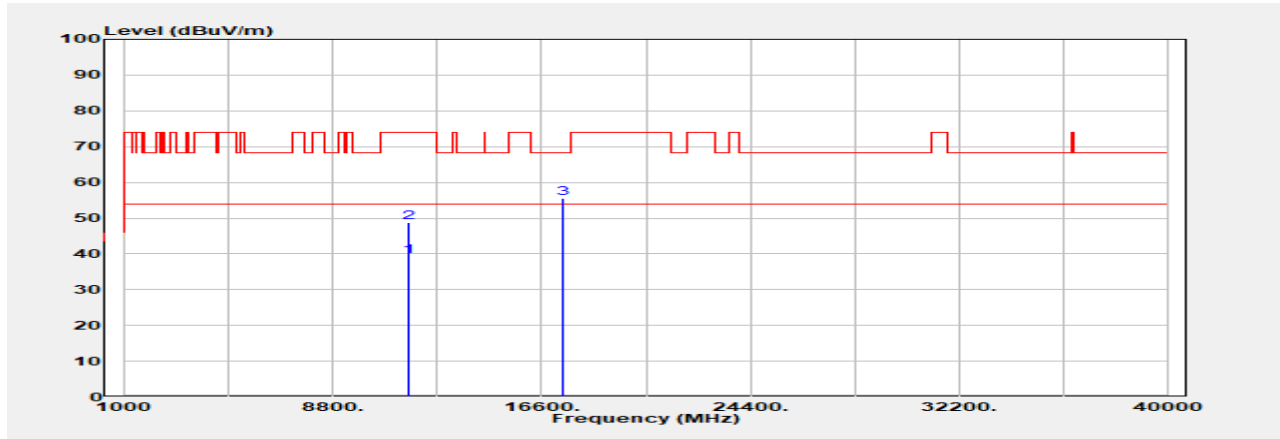
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11510.000	Average	29.37	11.05	40.42	54.00	-13.58
11510.000	Peak	40.19	11.05	51.23	74.00	-22.77
17265.000	Peak	46.88	11.18	58.06	68.20	-10.14

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Report Number :TERF2303000624E2  
 Operation Mode :802.11n40  
 Test Frequency :5795 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-19  
 Temp./Humi. :23.5°C / 58%  
 Antenna Pol. :Vertical  
 Engineer :Temo Chen



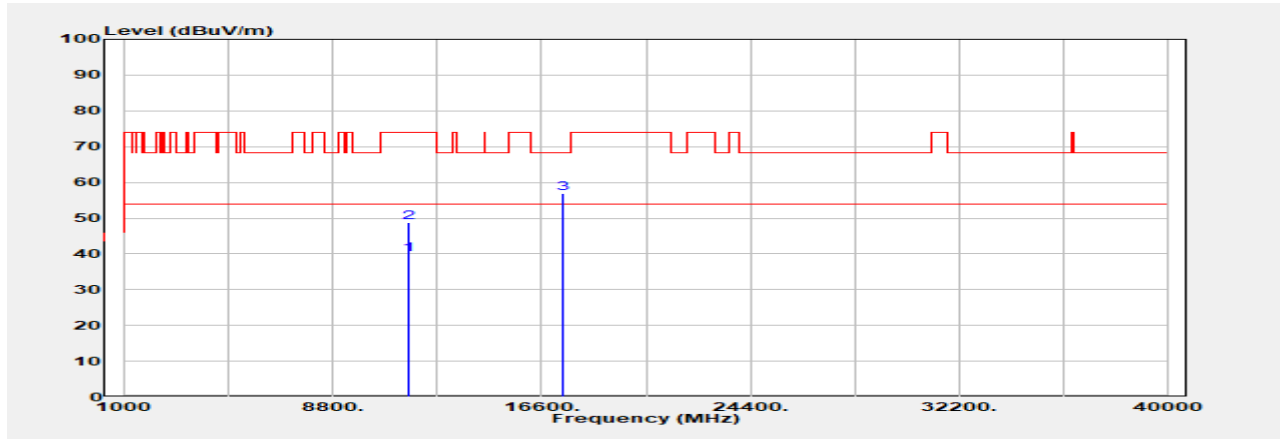
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11590.000	Average	29.37	9.85	39.22	54.00	-14.78
11590.000	Peak	39.04	9.85	48.89	74.00	-25.11
17385.000	Peak	43.63	11.94	55.57	68.20	-12.63

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Report Number :TERF2303000624E2  
 Operation Mode :802.11n40  
 Test Frequency :5795 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-19  
 Temp./Humi. :23.5°C / 58%  
 Antenna Pol. :Horizontal  
 Engineer :Temo Chen



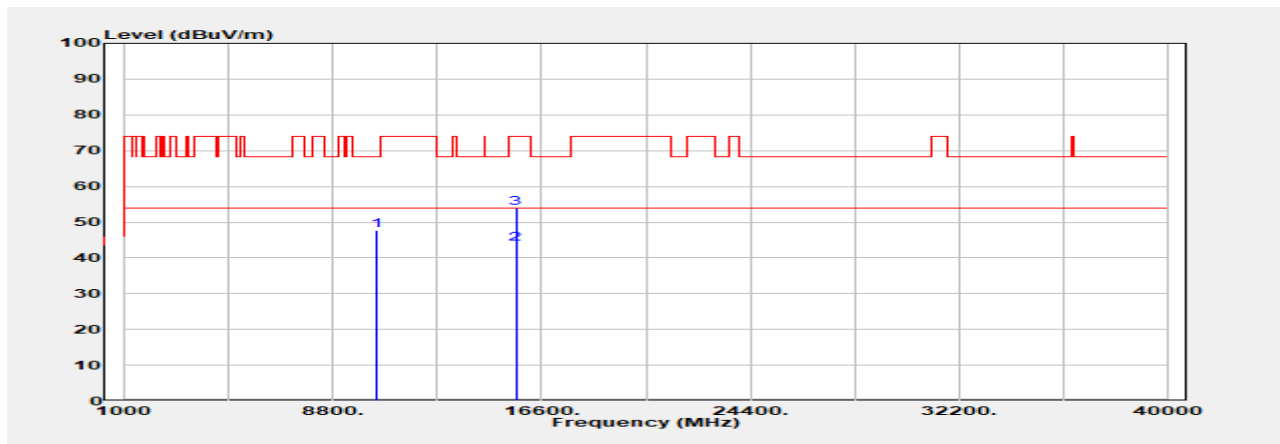
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11590.000	Average	29.86	9.85	39.71	54.00	-14.29
11590.000	Peak	38.97	9.85	48.82	74.00	-25.18
17385.000	Peak	45.05	11.94	56.99	68.20	-11.21

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Report Number :TERF2303000624E2  
 Operation Mode :802.11ac80  
 Test Frequency :5210 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-19  
 Temp./Humi. :23.5°C / 58%  
 Antenna Pol. :Vertical  
 Engineer :Temo Chen



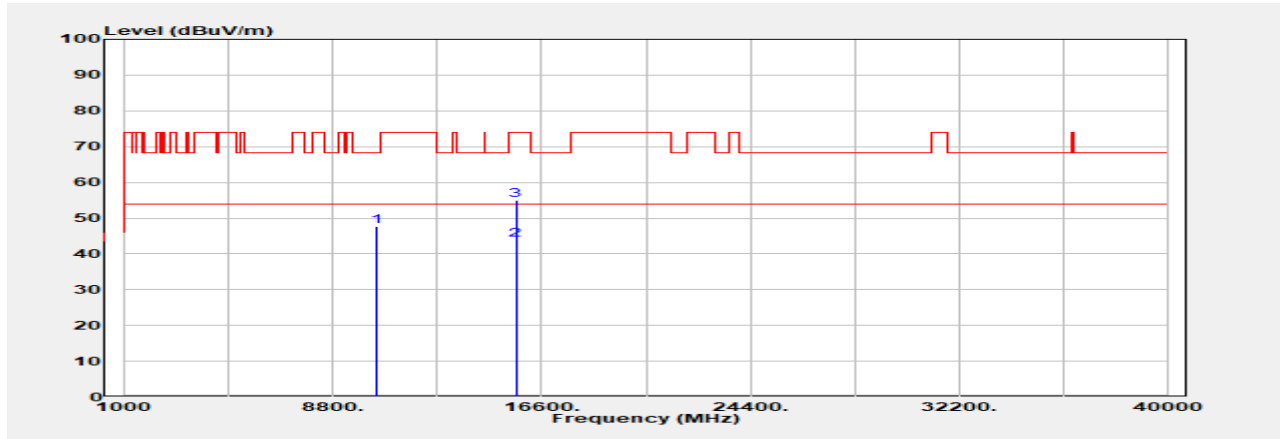
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10420.000	Peak	38.08	9.58	47.66	68.20	-20.54
15630.000	Average	31.85	12.11	43.96	54.00	-10.04
15630.000	Peak	41.89	12.11	54.00	74.00	-20.00

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Report Number :TERF2303000624E2  
 Operation Mode :802.11ac80  
 Test Frequency :5210 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-19  
 Temp./Humi. :23.5°C / 58%  
 Antenna Pol. :Horizontal  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10420.000	Peak	38.21	9.58	47.79	68.20	-20.41
15630.000	Average	31.76	12.11	43.87	54.00	-10.13
15630.000	Peak	42.91	12.11	55.02	74.00	-18.98

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Report Number :TERF2303000624E2

Test Site :SAC G Chamber

Operation Mode :802.11ac80

Test Date :2023-04-19

Test Frequency :5775 MHz

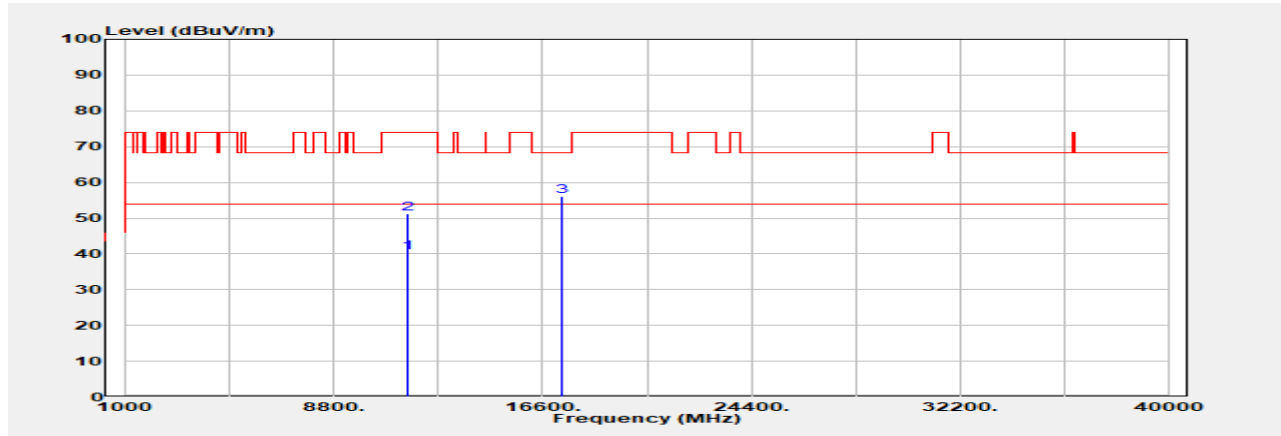
Temp./Humi. :23.5°C / 58%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11550.000	Average	29.84	10.45	40.29	54.00	-13.71
11550.000	Peak	40.83	10.45	51.28	74.00	-22.72
17325.000	Peak	44.40	11.70	56.10	68.20	-12.10

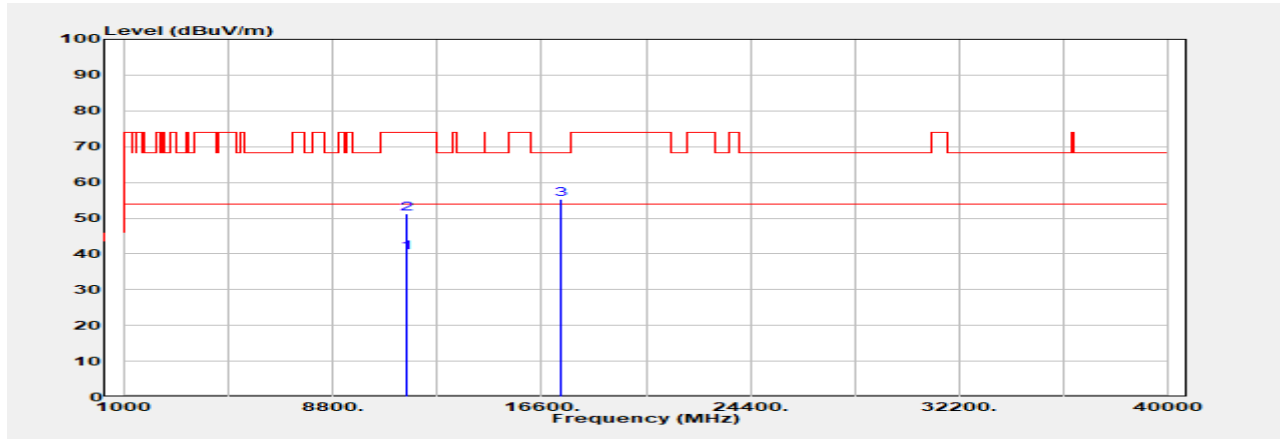
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Report Number :TERF2303000624E2  
 Operation Mode :802.11ac80  
 Test Frequency :5775 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-19  
 Temp./Humi. :23.5°C / 58%  
 Antenna Pol. :Horizontal  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11550.000	Average	29.81	10.45	40.26	54.00	-13.74
11550.000	Peak	40.87	10.45	51.32	74.00	-22.68
17325.000	Peak	43.55	11.70	55.25	68.20	-12.95

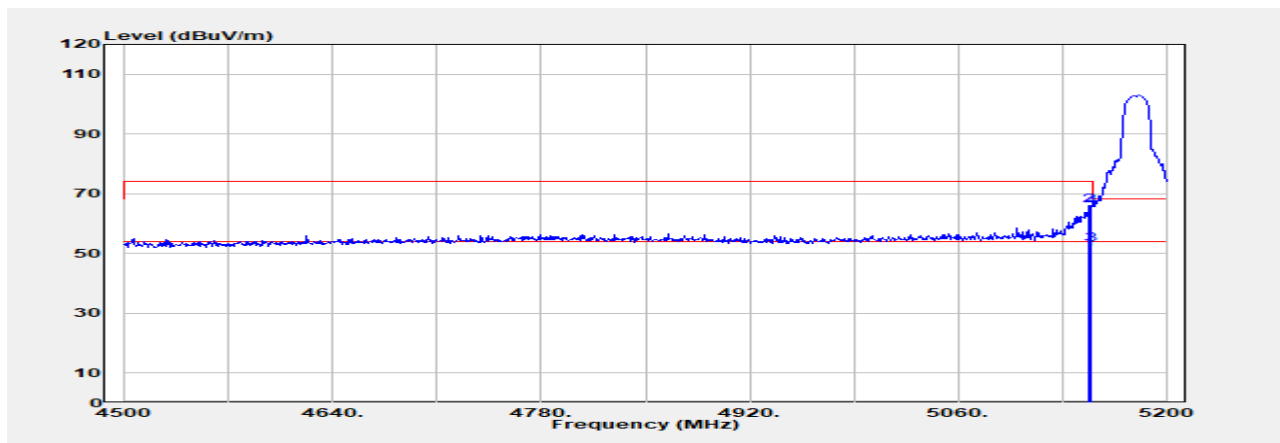
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### 11.6.2 Band edge falling to restricted band

Report Number	:TERF2303000624E2	Test Site	:SAC G Chamber
Operation Mode	:802.11a	Test Date	:2023-04-18
Test Frequency	:5180 MHz	Temp./Humi.	:23.2°C / 61%
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Temo Chen



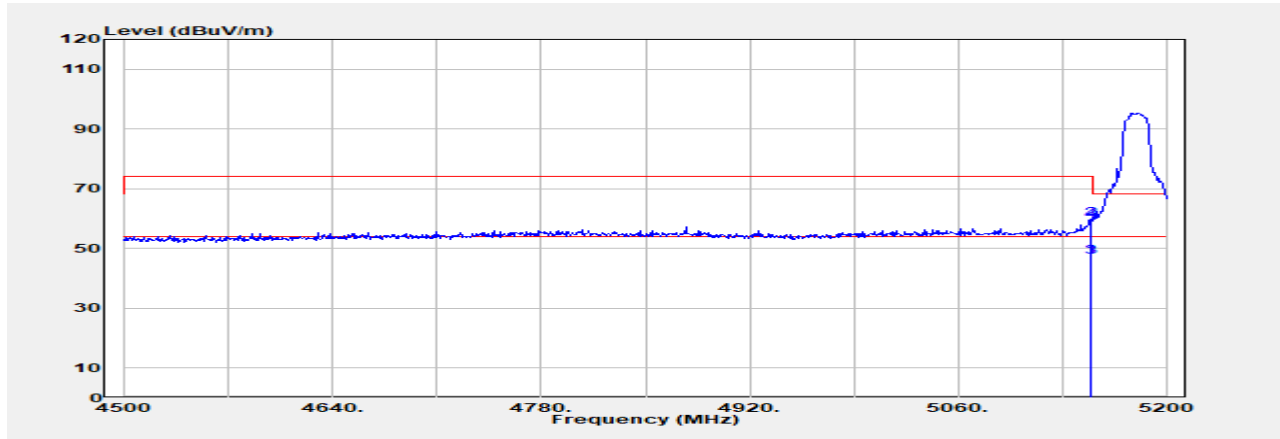
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5148.200	Average	47.60	3.76	51.36	54.00	-2.64
5148.200	Peak	62.31	3.76	66.07	74.00	-7.93
5150.000	Average	49.26	3.74	53.00	54.00	-1.00
5150.000	Peak	61.94	3.74	65.68	74.00	-8.32

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Report Number :TERF2303000624E2  
 Operation Mode :802.11a  
 Test Frequency :5180 MHz  
 Test Mode :Bandedge  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-18  
 Temp./Humi. :23.2°C / 61%  
 Antenna Pol. :Horizontal  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5149.600	Average	43.30	3.75	47.05	54.00	-6.95
5149.600	Peak	56.13	3.75	59.88	74.00	-14.12
5150.000	Average	43.57	3.74	47.32	54.00	-6.68
5150.000	Peak	55.83	3.74	59.57	74.00	-14.43

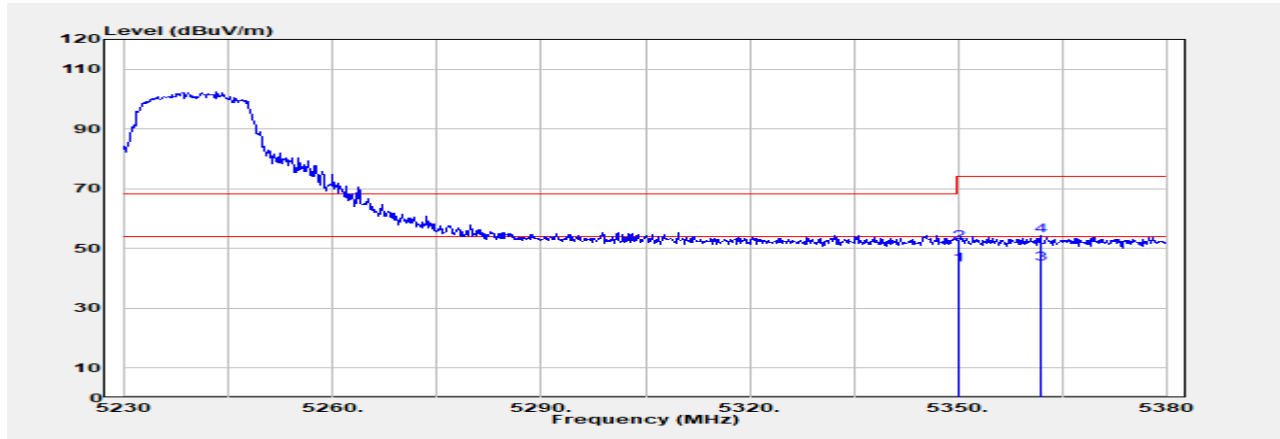
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Report Number :TERF2303000624E2  
 Operation Mode :802.11a  
 Test Frequency :5240 MHz  
 Test Mode :Bandedge  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-18  
 Temp./Humi. :23.2°C / 61%  
 Antenna Pol. :Vertical  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	41.10	3.37	44.47	54.00	-9.53
5350.000	Peak	48.61	3.37	51.98	74.00	-22.02
5361.850	Average	41.50	3.37	44.88	54.00	-9.12
5361.850	Peak	51.05	3.37	54.42	74.00	-19.58

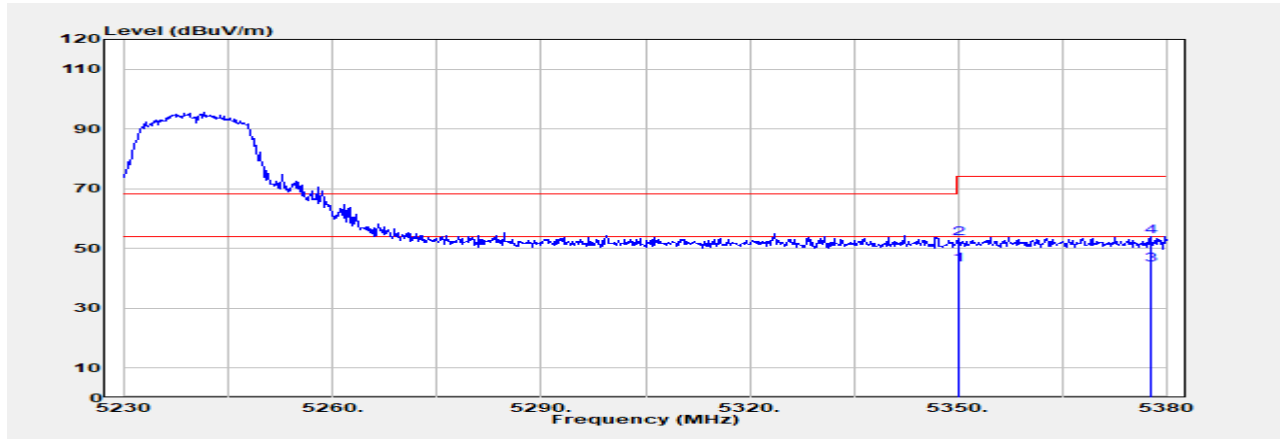
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Report Number :TERF2303000624E2  
 Operation Mode :802.11a  
 Test Frequency :5240 MHz  
 Test Mode :Bandedge  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-18  
 Temp./Humi. :23.2°C / 61%  
 Antenna Pol. :Horizontal  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	41.13	3.37	44.50	54.00	-9.50
5350.000	Peak	49.90	3.37	53.27	74.00	-20.73
5377.750	Average	41.11	3.38	44.48	54.00	-9.52
5377.750	Peak	50.71	3.38	54.09	74.00	-19.91

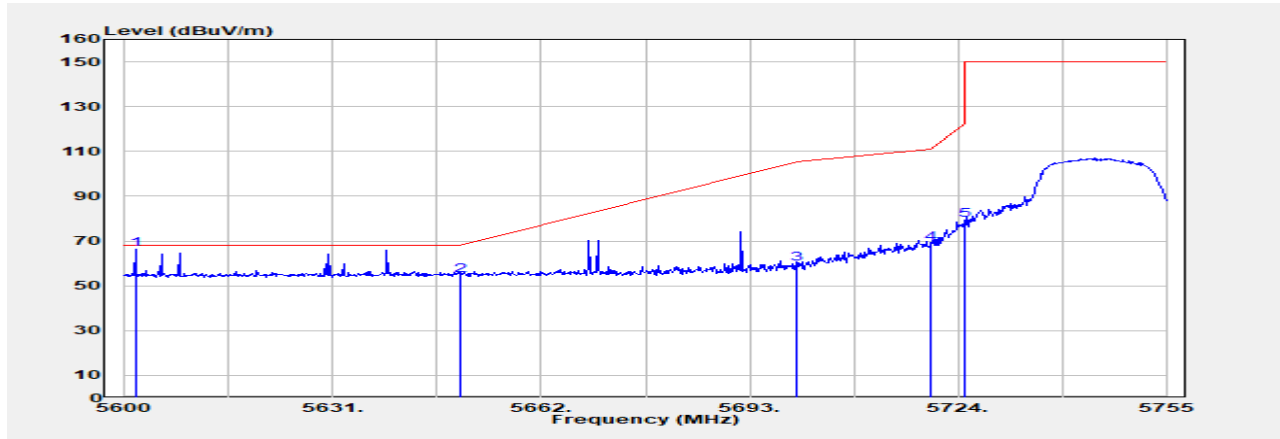
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Report Number :TERF2303000624E2  
 Operation Mode :802.11a  
 Test Frequency :5745 MHz  
 Test Mode :Bandedge  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-18  
 Temp./Humi. :23.2°C / 61%  
 Antenna Pol. :Vertical  
 Engineer :Temo Chen



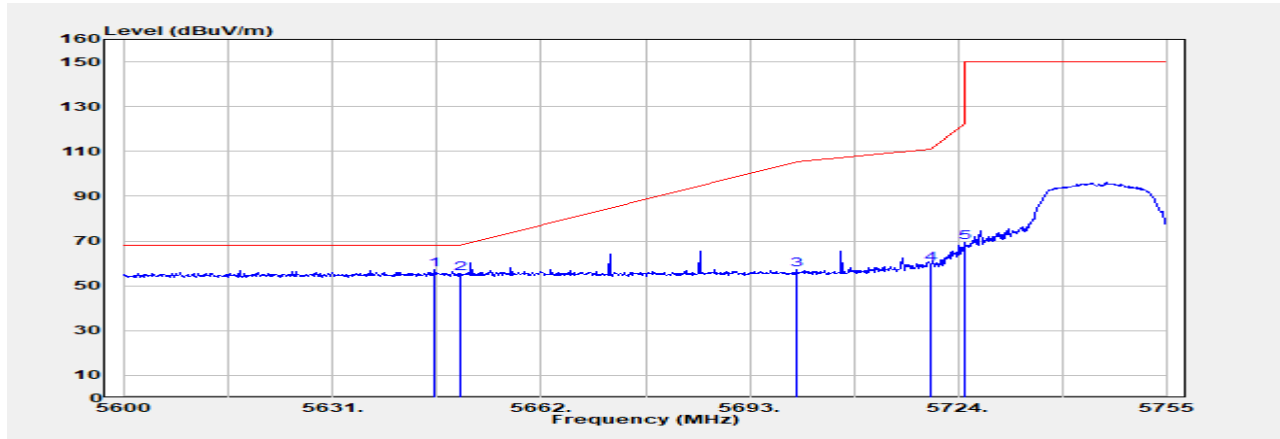
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5601.550	Peak	62.35	3.98	66.33	68.20	-1.87
5650.000	Peak	50.08	4.76	54.84	68.20	-13.36
5700.000	Peak	54.40	5.56	59.96	105.20	-45.24
5720.000	Peak	63.50	5.57	69.07	110.80	-41.73
5725.000	Peak	73.61	5.57	79.18	122.20	-43.02

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Report Number :TERF2303000624E2  
 Operation Mode :802.11a  
 Test Frequency :5745 MHz  
 Test Mode :Bandedge  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-18  
 Temp./Humi. :23.2°C / 61%  
 Antenna Pol. :Horizontal  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5646.190	Peak	52.67	4.70	57.36	68.20	-10.84
5650.000	Peak	50.53	4.76	55.29	68.20	-12.91
5700.000	Peak	51.50	5.56	57.06	105.20	-48.14
5720.000	Peak	54.34	5.57	59.91	110.80	-50.89
5725.000	Peak	63.79	5.57	69.36	122.20	-52.84

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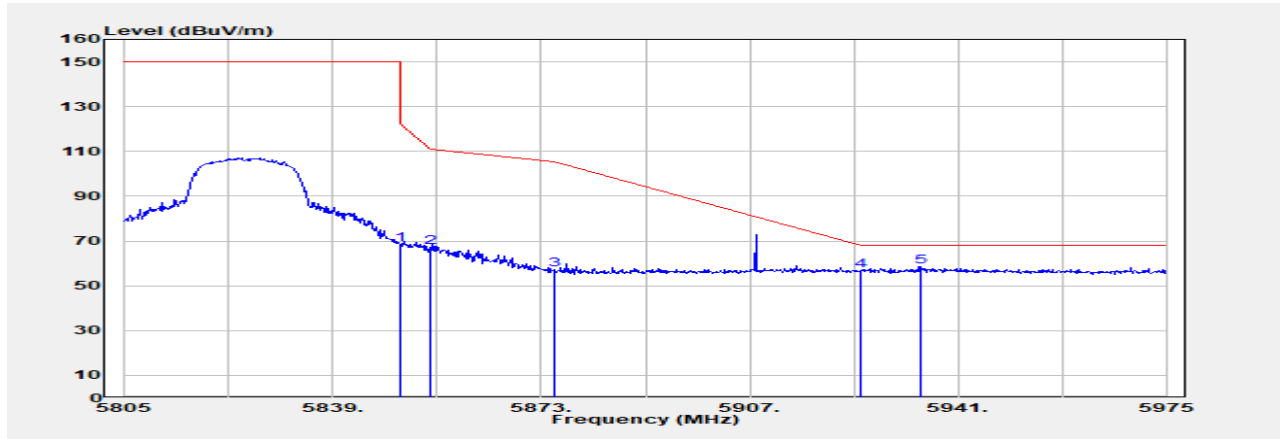
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Report Number :TERF2303000624E2  
 Operation Mode :802.11a  
 Test Frequency :5825 MHz  
 Test Mode :Bandedge  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-18  
 Temp./Humi. :23.2°C / 61%  
 Antenna Pol. :Vertical  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5850.000	Peak	62.79	5.66	68.45	122.20	-53.75
5855.000	Peak	61.48	5.68	67.17	110.80	-43.63
5875.000	Peak	51.65	5.78	57.43	105.20	-47.77
5925.000	Peak	51.29	5.66	56.95	68.20	-11.25
5934.880	Peak	53.15	5.56	58.71	68.20	-9.49

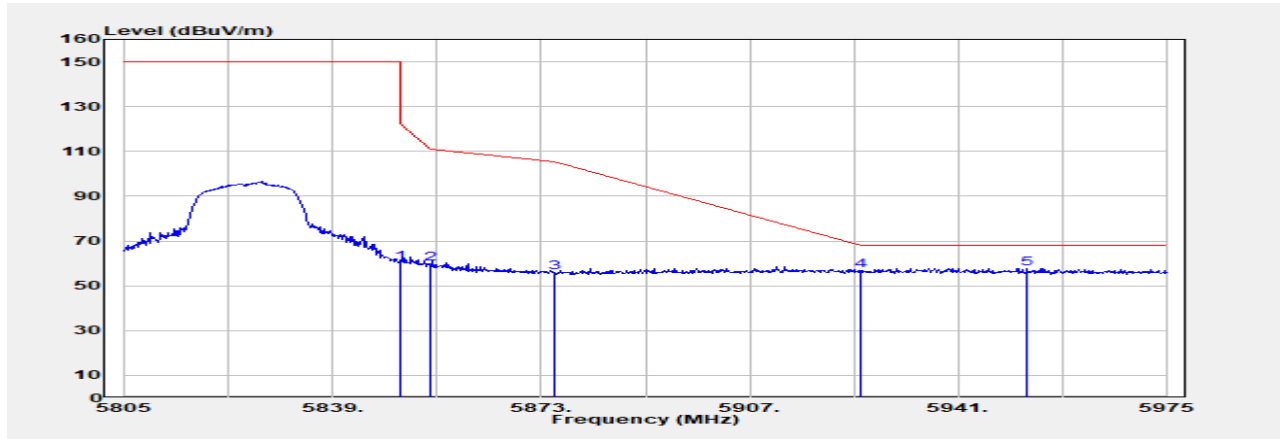
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Report Number :TERF2303000624E2  
 Operation Mode :802.11a  
 Test Frequency :5825 MHz  
 Test Mode :Bandedge  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-18  
 Temp./Humi. :23.2°C / 61%  
 Antenna Pol. :Horizontal  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5850.000	Peak	54.81	5.66	60.48	122.20	-61.72
5855.000	Peak	54.30	5.68	59.98	110.80	-50.82
5875.000	Peak	50.11	5.78	55.89	105.20	-49.31
5925.000	Peak	51.15	5.66	56.80	68.20	-11.40
5952.390	Peak	52.49	5.38	57.87	68.20	-10.33

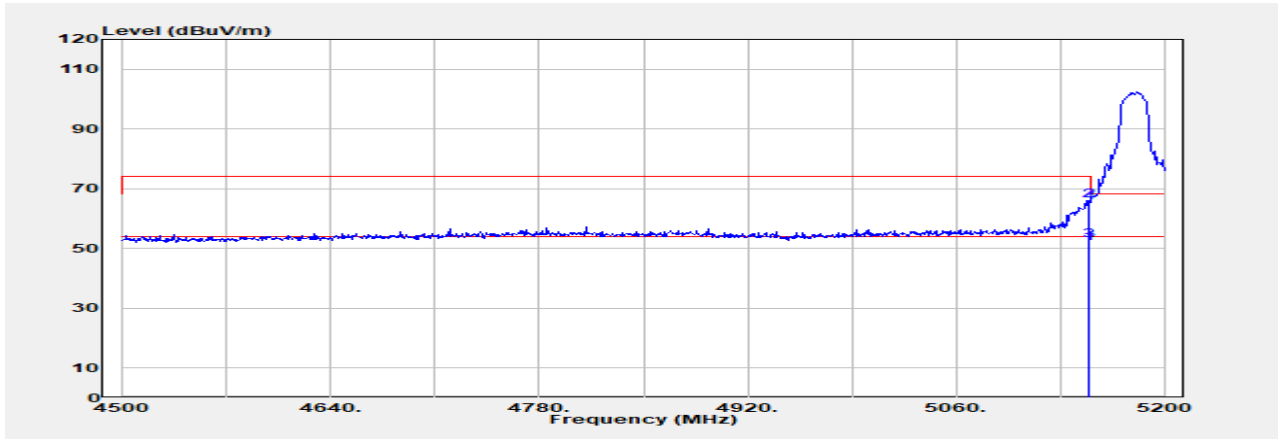
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Report Number :TERF2303000624E2  
 Operation Mode :802.11n20  
 Test Frequency :5180 MHz  
 Test Mode :Bandedge  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-18  
 Temp./Humi. :23.2°C / 61%  
 Antenna Pol. :Vertical  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5149.600	Average	47.81	3.75	51.56	54.00	-2.44
5149.600	Peak	62.30	3.75	66.05	74.00	-7.95
5150.000	Average	48.89	3.74	52.64	54.00	-1.36
5150.000	Peak	61.75	3.74	65.50	74.00	-8.50

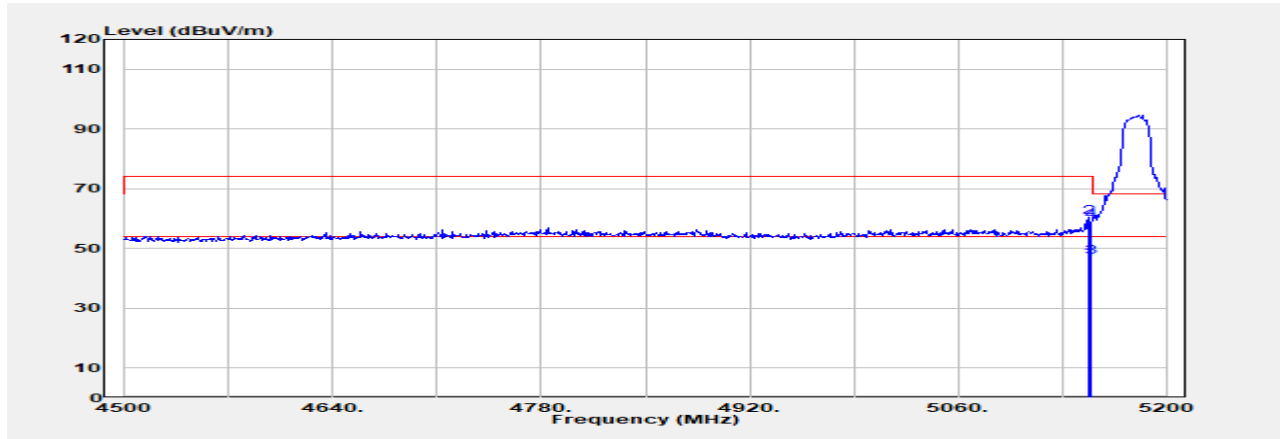
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Report Number :TERF2303000624E2  
 Operation Mode :802.11n20  
 Test Frequency :5180 MHz  
 Test Mode :Bandedge  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-18  
 Temp./Humi. :23.2°C / 61%  
 Antenna Pol. :Horizontal  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5147.500	Average	42.67	3.77	46.44	54.00	-7.56
5147.500	Peak	56.61	3.77	60.37	74.00	-13.63
5150.000	Average	43.49	3.74	47.23	54.00	-6.77
5150.000	Peak	55.50	3.74	59.24	74.00	-14.76

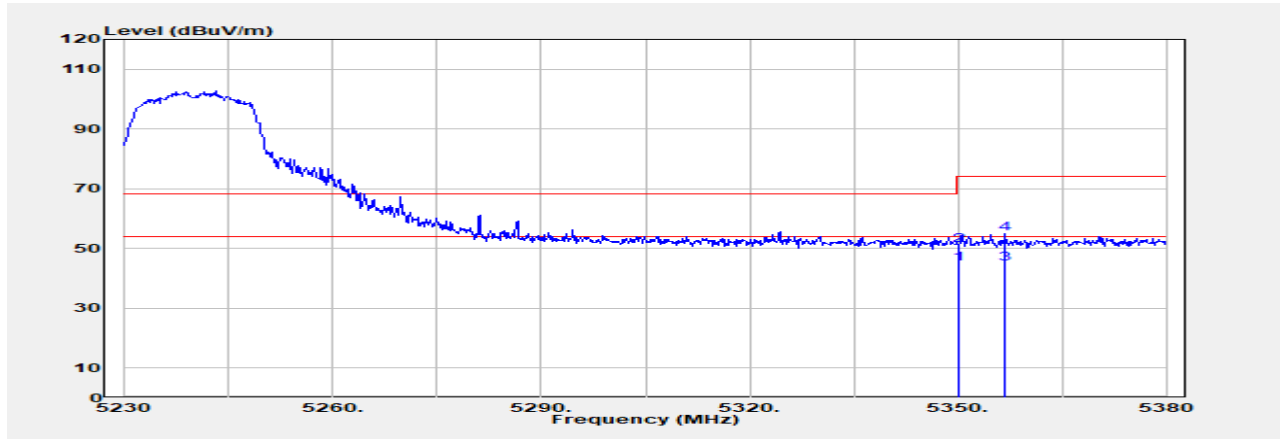
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Report Number :TERF2303000624E2  
 Operation Mode :802.11n20  
 Test Frequency :5240 MHz  
 Test Mode :Bandedge  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-18  
 Temp./Humi. :23.2°C / 61%  
 Antenna Pol. :Vertical  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	41.35	3.37	44.72	54.00	-9.28
5350.000	Peak	47.71	3.37	51.08	74.00	-22.92
5356.900	Average	41.35	3.37	44.72	54.00	-9.28
5356.900	Peak	51.54	3.37	54.91	74.00	-19.09

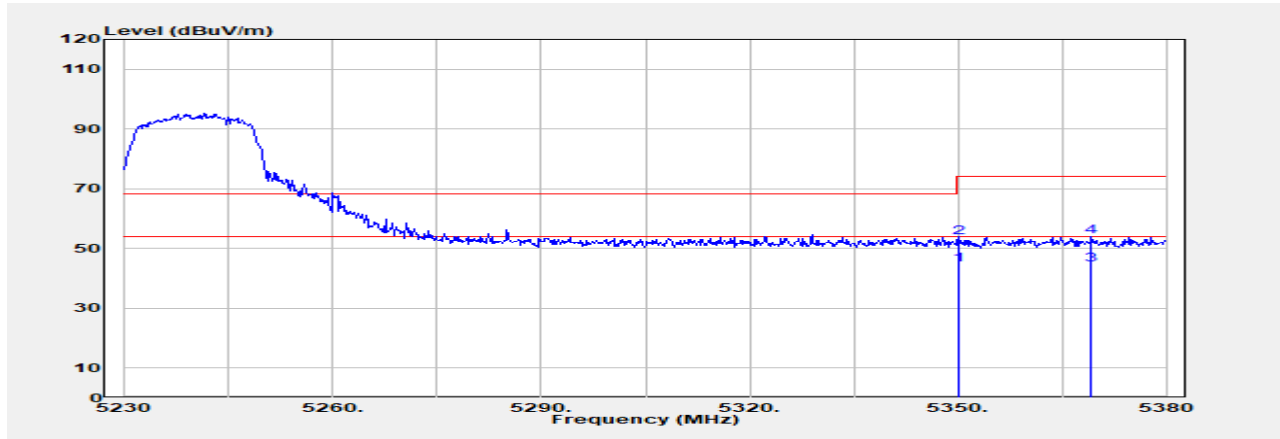
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Report Number :TERF2303000624E2  
 Operation Mode :802.11n20  
 Test Frequency :5240 MHz  
 Test Mode :Bandedge  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-18  
 Temp./Humi. :23.2°C / 61%  
 Antenna Pol. :Horizontal  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5350.000	Average	41.06	3.37	44.43	54.00	-9.57
5350.000	Peak	50.29	3.37	53.66	74.00	-20.34
5369.200	Average	41.15	3.37	44.52	54.00	-9.48
5369.200	Peak	50.56	3.37	53.94	74.00	-20.06

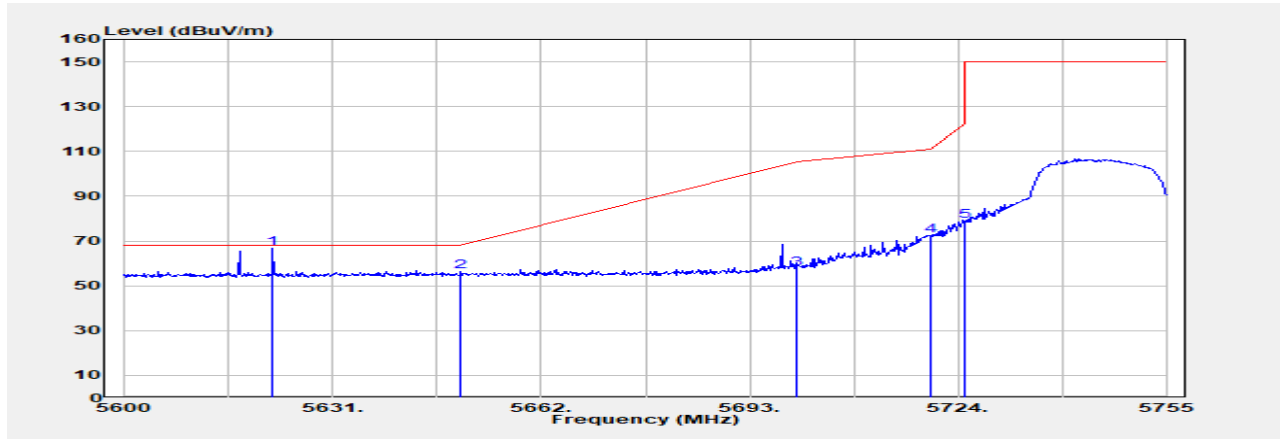
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Report Number :TERF2303000624E2  
 Operation Mode :802.11n20  
 Test Frequency :5745 MHz  
 Test Mode :Bandedge  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-18  
 Temp./Humi. :23.2°C / 61%  
 Antenna Pol. :Vertical  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5622.010	Peak	62.56	4.31	66.87	68.20	-1.33
5650.000	Peak	51.62	4.76	56.38	68.20	-11.82
5700.000	Peak	52.23	5.56	57.79	105.20	-47.41
5720.000	Peak	66.79	5.57	72.36	110.80	-38.44
5725.000	Peak	73.22	5.57	78.79	122.20	-43.41

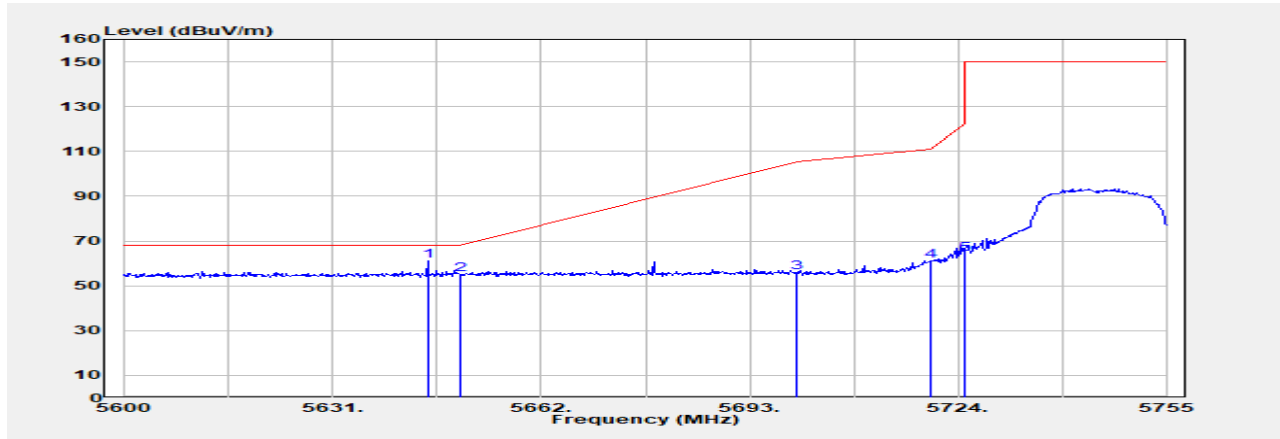
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Report Number :TERF2303000624E2  
 Operation Mode :802.11n20  
 Test Frequency :5745 MHz  
 Test Mode :Bandedge  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-18  
 Temp./Humi. :23.2°C / 61%  
 Antenna Pol. :Horizontal  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5645.105	Peak	56.41	4.68	61.09	68.20	-7.11
5650.000	Peak	50.13	4.76	54.89	68.20	-13.31
5700.000	Peak	50.18	5.56	55.74	105.20	-49.46
5720.000	Peak	55.43	5.57	61.01	110.80	-49.79
5725.000	Peak	58.45	5.57	64.03	122.20	-58.17

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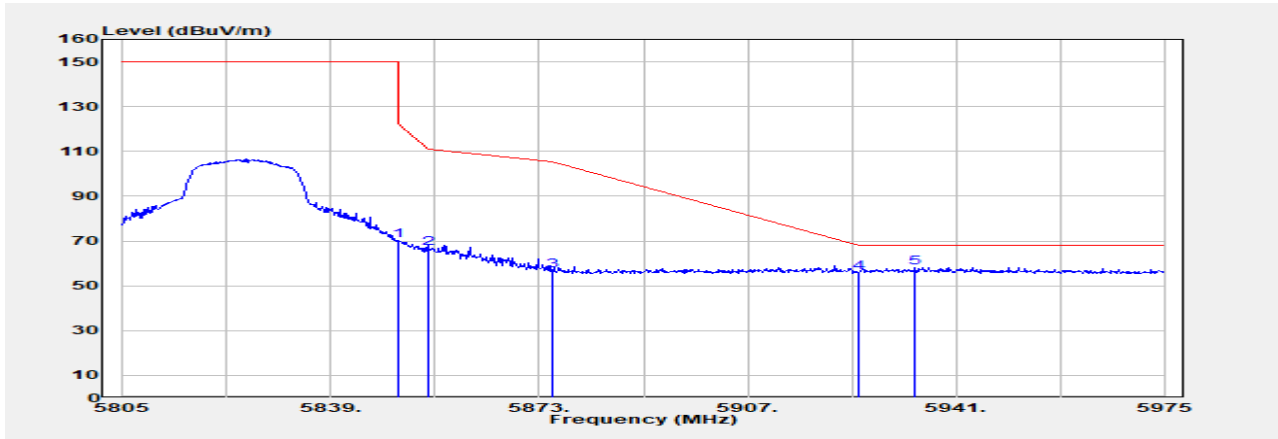
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Report Number :TERF2303000624E2  
 Operation Mode :802.11n20  
 Test Frequency :5825 MHz  
 Test Mode :Bandedge  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-18  
 Temp./Humi. :23.2°C / 61%  
 Antenna Pol. :Vertical  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5850.000	Peak	64.55	5.66	70.21	122.20	-51.99
5855.000	Peak	61.00	5.68	66.68	110.80	-44.12
5875.000	Peak	51.23	5.78	57.01	105.20	-48.19
5925.000	Peak	50.42	5.66	56.07	68.20	-12.13
5934.370	Peak	52.68	5.56	58.24	68.20	-9.96

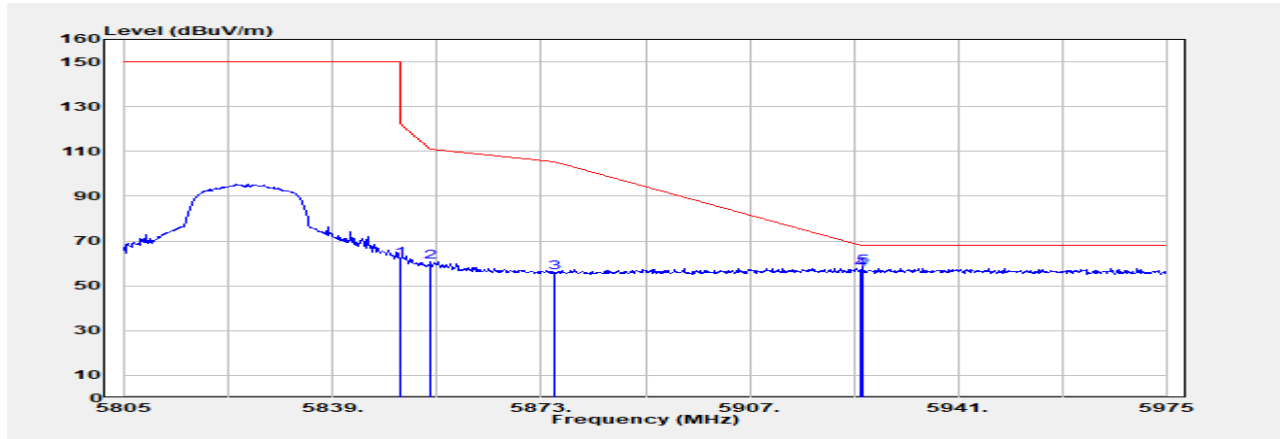
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Report Number :TERF2303000624E2  
 Operation Mode :802.11n20  
 Test Frequency :5825 MHz  
 Test Mode :Bandedge  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-18  
 Temp./Humi. :23.2°C / 61%  
 Antenna Pol. :Horizontal  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5850.000	Peak	56.36	5.66	62.02	122.20	-60.18
5855.000	Peak	55.19	5.68	60.87	110.80	-49.93
5875.000	Peak	49.99	5.78	55.77	105.20	-49.43
5925.000	Peak	51.40	5.66	57.06	68.20	-11.14
5925.530	Peak	52.88	5.65	58.53	68.20	-9.67

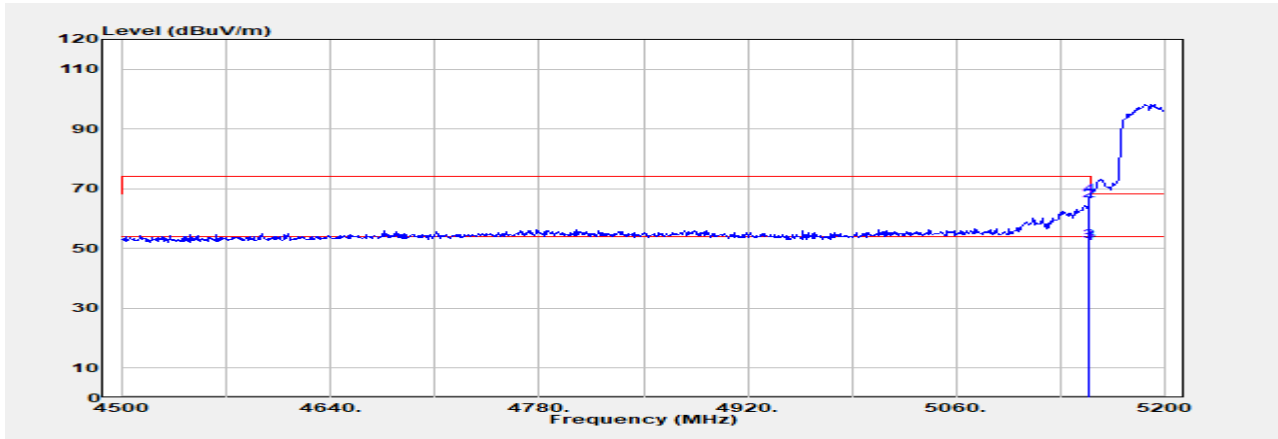
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Report Number :TERF2303000624E2  
 Operation Mode :802.11n40  
 Test Frequency :5190 MHz  
 Test Mode :Bandedge  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-18  
 Temp./Humi. :23.2°C / 61%  
 Antenna Pol. :Vertical  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5149.600	Average	47.96	3.75	51.71	54.00	-2.29
5149.600	Peak	62.41	3.75	66.16	74.00	-7.84
5150.000	Average	48.67	3.74	52.41	54.00	-1.59
5150.000	Peak	63.92	3.74	67.67	74.00	-6.33

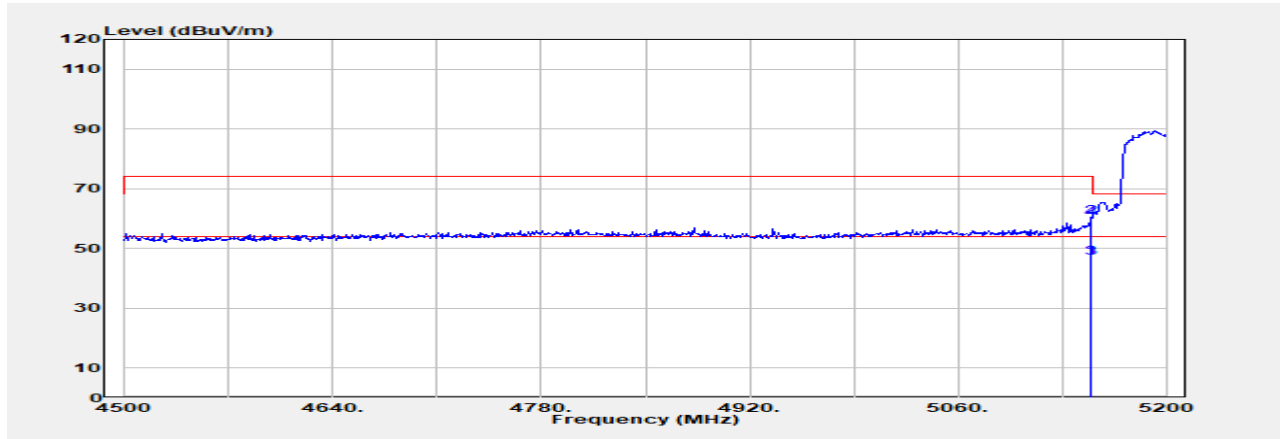
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Report Number :TERF2303000624E2  
 Operation Mode :802.11n40  
 Test Frequency :5190 MHz  
 Test Mode :Bandedge  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-18  
 Temp./Humi. :23.2°C / 61%  
 Antenna Pol. :Horizontal  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5149.600	Average	42.97	3.75	46.72	54.00	-7.28
5149.600	Peak	56.85	3.75	60.59	74.00	-13.41
5150.000	Average	42.96	3.74	46.70	54.00	-7.30
5150.000	Peak	56.32	3.74	60.06	74.00	-13.94

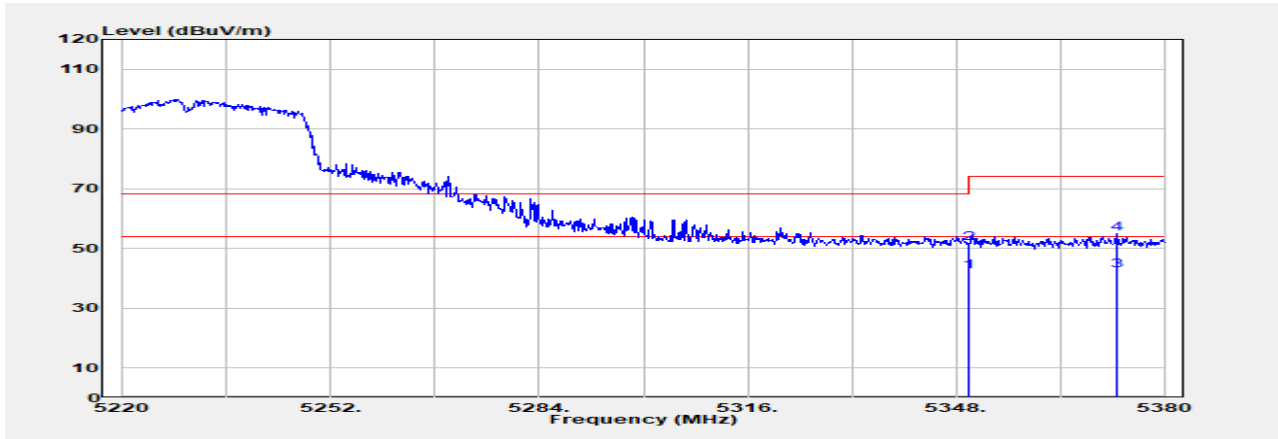
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Report Number :TERF2303000624E2  
 Operation Mode :802.11n40  
 Test Frequency :5230 MHz  
 Test Mode :Bandedge  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-18  
 Temp./Humi. :23.2°C / 61%  
 Antenna Pol. :Vertical  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	39.01	3.37	42.38	54.00	-11.62
5350.000	Peak	48.21	3.37	51.58	74.00	-22.42
5372.640	Average	39.07	3.37	42.44	54.00	-11.56
5372.640	Peak	51.54	3.37	54.91	74.00	-19.09

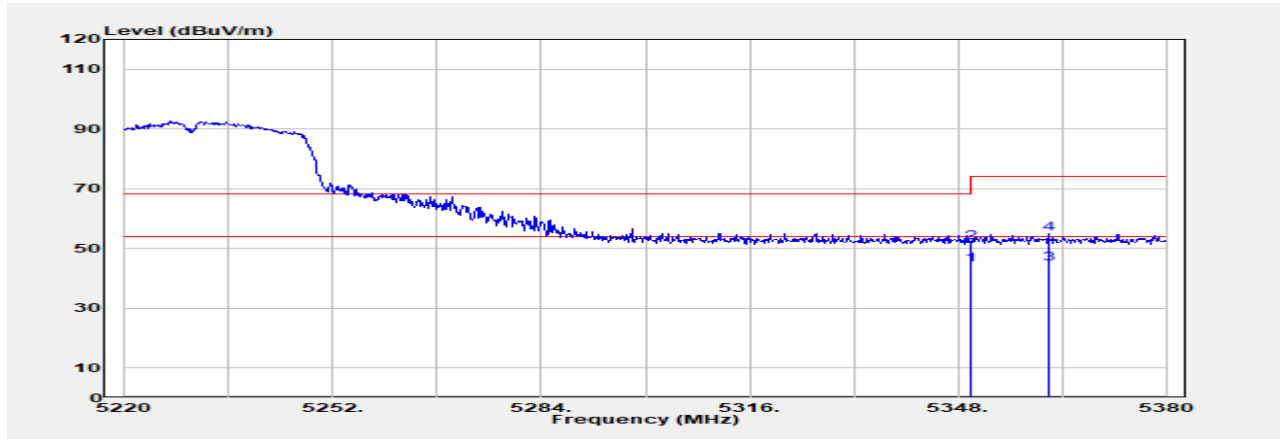
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Report Number :TERF2303000624E2  
 Operation Mode :802.11n40  
 Test Frequency :5230 MHz  
 Test Mode :Bandedge  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-18  
 Temp./Humi. :23.2°C / 61%  
 Antenna Pol. :Horizontal  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	41.22	3.37	44.59	54.00	-9.41
5350.000	Peak	48.63	3.37	52.00	74.00	-22.00
5361.920	Average	41.36	3.37	44.73	54.00	-9.27
5361.920	Peak	51.60	3.37	54.97	74.00	-19.03

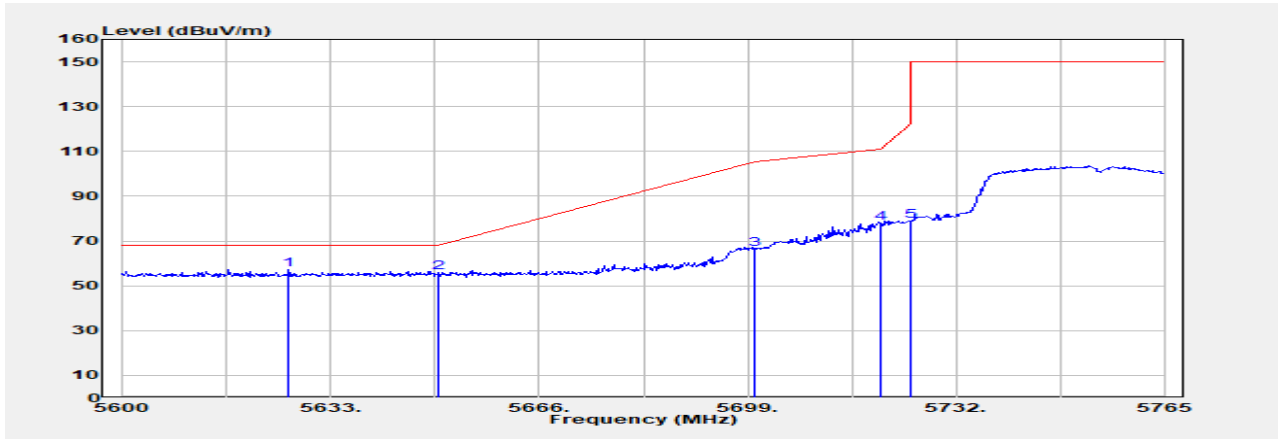
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Report Number :TERF2303000624E2  
 Operation Mode :802.11n40  
 Test Frequency :5755 MHz  
 Test Mode :Bandedge  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-18  
 Temp./Humi. :23.2°C / 61%  
 Antenna Pol. :Vertical  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5626.235	Peak	53.07	4.37	57.44	68.20	-10.76
5650.000	Peak	51.00	4.76	55.76	68.20	-12.44
5700.000	Peak	60.92	5.56	66.48	105.20	-38.72
5720.000	Peak	72.69	5.57	78.26	110.80	-32.54
5725.000	Peak	73.41	5.57	78.98	122.20	-43.22

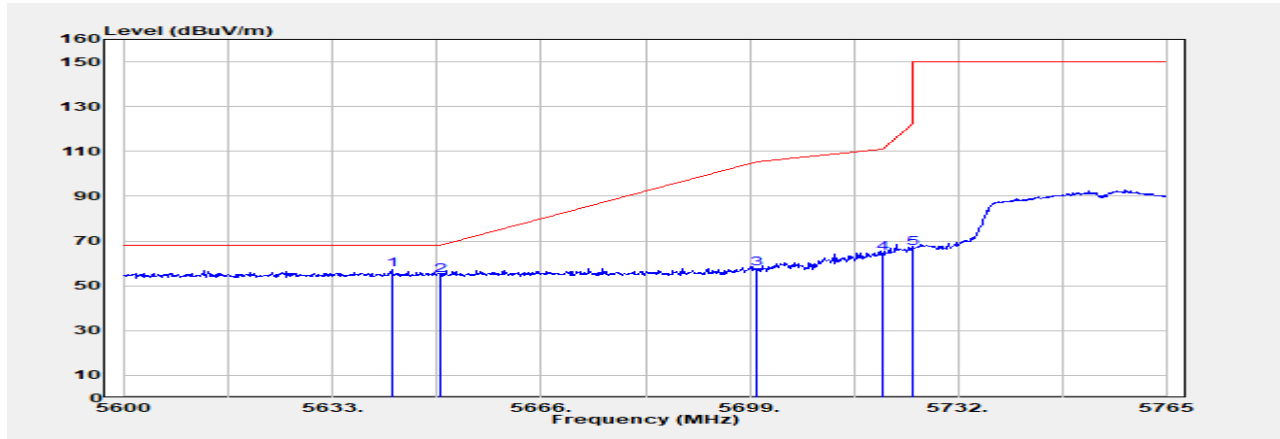
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Report Number :TERF2303000624E2  
 Operation Mode :802.11n40  
 Test Frequency :5755 MHz  
 Test Mode :Bandedge  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-18  
 Temp./Humi. :23.2°C / 61%  
 Antenna Pol. :Horizontal  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5642.240	Peak	52.51	4.63	57.15	68.20	-11.05
5650.000	Peak	49.99	4.76	54.74	68.20	-13.46
5700.000	Peak	52.24	5.56	57.80	105.20	-47.40
5720.000	Peak	59.16	5.57	64.73	110.80	-46.07
5725.000	Peak	61.39	5.57	66.97	122.20	-55.23

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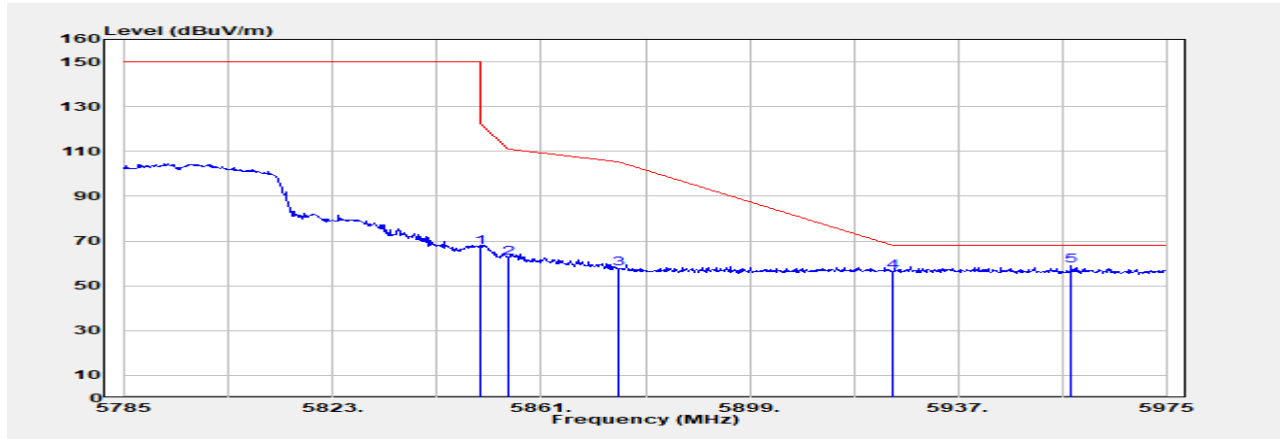
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Report Number :TERF2303000624E2  
 Operation Mode :802.11n40  
 Test Frequency :5795 MHz  
 Test Mode :Bandedge  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-18  
 Temp./Humi. :23.2°C / 61%  
 Antenna Pol. :Vertical  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5850.000	Peak	61.52	5.66	67.18	122.20	-55.02
5855.000	Peak	56.88	5.68	62.56	110.80	-48.24
5875.000	Peak	52.04	5.78	57.82	105.20	-47.38
5925.000	Peak	50.84	5.66	56.50	68.20	-11.70
5957.710	Peak	53.51	5.32	58.84	68.20	-9.36

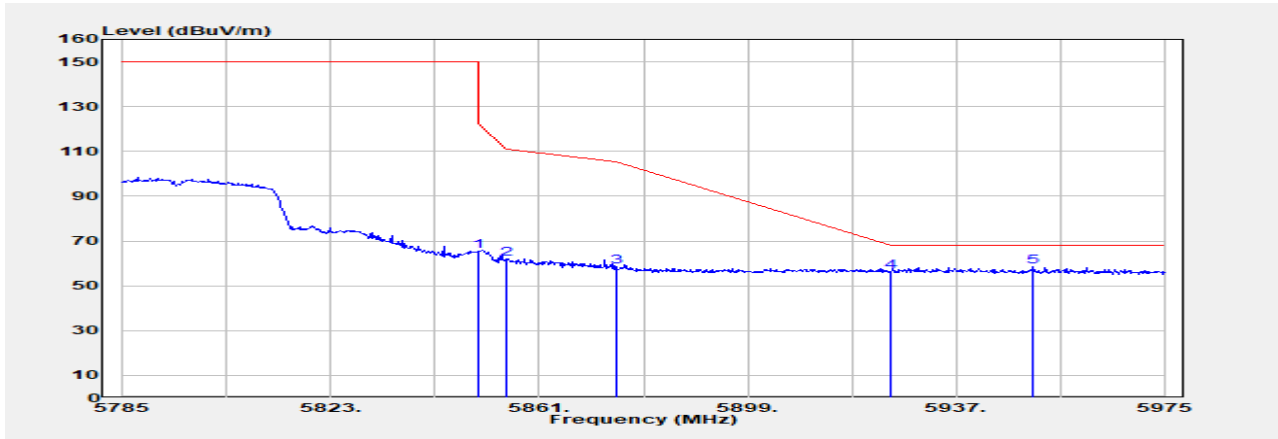
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Report Number :TERF2303000624E2  
 Operation Mode :802.11n40  
 Test Frequency :5795 MHz  
 Test Mode :Bandedge  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-18  
 Temp./Humi. :23.2°C / 61%  
 Antenna Pol. :Horizontal  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5850.000	Peak	59.63	5.66	65.29	122.20	-56.91
5855.000	Peak	56.34	5.68	62.02	110.80	-48.78
5875.000	Peak	52.91	5.78	58.69	105.20	-46.51
5925.000	Peak	50.55	5.66	56.21	68.20	-11.99
5951.060	Peak	53.27	5.40	58.67	68.20	-9.53

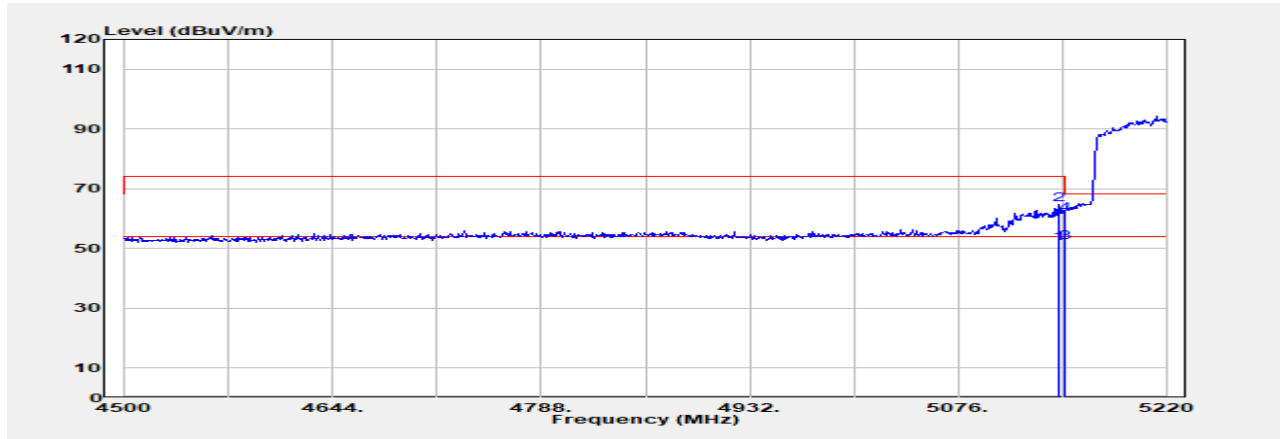
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Report Number :TERF2303000624E2  
 Operation Mode :802.11ac80  
 Test Frequency :5210 MHz  
 Test Mode :Bandedge  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-19  
 Temp./Humi. :23.5°C / 58%  
 Antenna Pol. :Vertical  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5145.840	Average	47.87	3.78	51.66	54.00	-2.34
5145.840	Peak	61.02	3.78	64.80	74.00	-9.20
5150.000	Average	48.34	3.74	52.08	54.00	-1.92
5150.000	Peak	57.76	3.74	61.51	74.00	-12.49

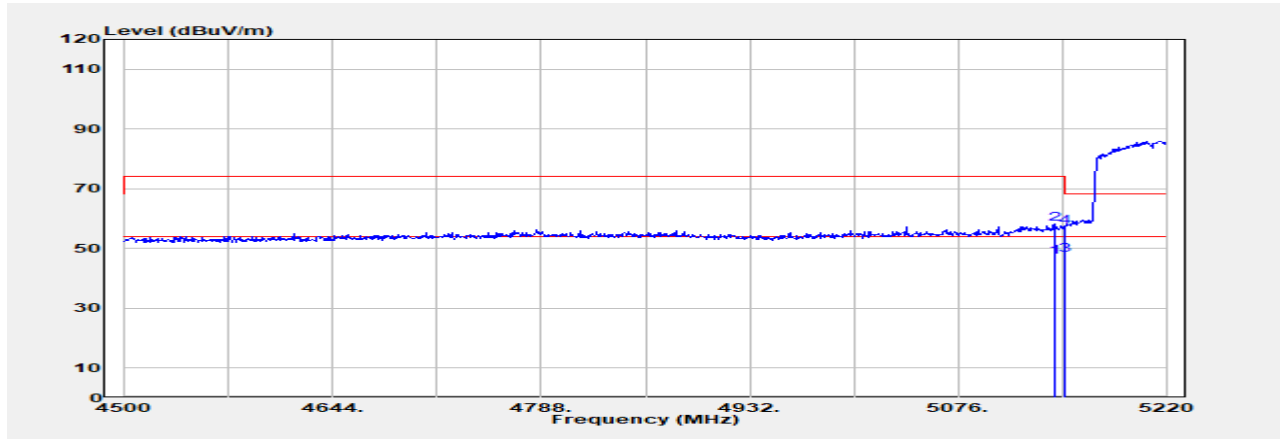
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Report Number :TERF2303000624E2  
 Operation Mode :802.11ac80  
 Test Frequency :5210 MHz  
 Test Mode :Bandedge  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-19  
 Temp./Humi. :23.5°C / 58%  
 Antenna Pol. :Horizontal  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5142.960	Average	43.28	3.81	47.09	54.00	-6.91
5142.960	Peak	54.29	3.81	58.10	74.00	-15.90
5150.000	Average	44.00	3.74	47.74	54.00	-6.26
5150.000	Peak	53.43	3.74	57.17	74.00	-16.83

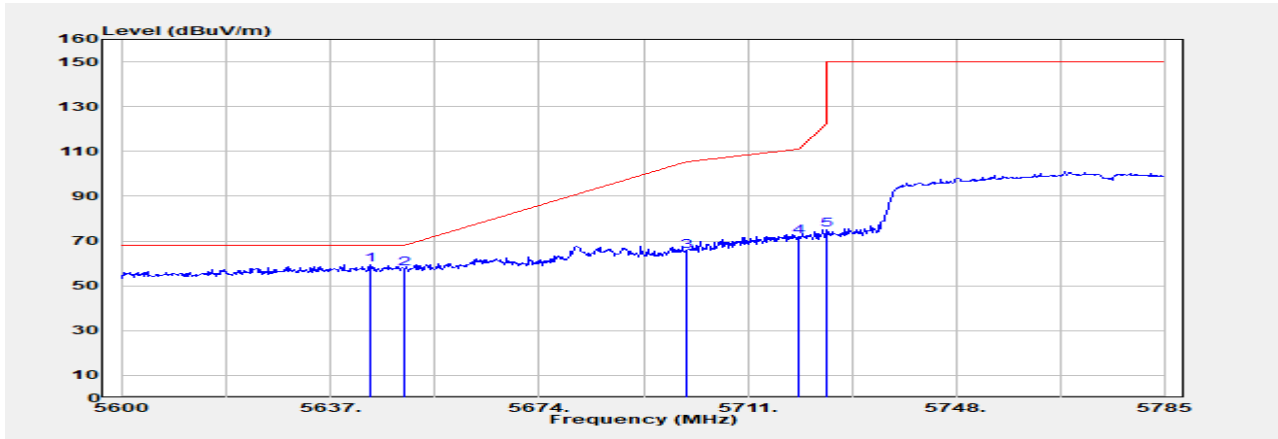
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Report Number :TERF2303000624E2  
 Operation Mode :802.11ac80  
 Test Frequency :5775 MHz  
 Test Mode :Bandedge  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-19  
 Temp./Humi. :23.5°C / 58%  
 Antenna Pol. :Vertical  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5643.845	Peak	54.77	4.66	59.43	68.20	-8.77
5650.000	Peak	52.71	4.76	57.46	68.20	-10.74
5700.000	Peak	60.10	5.56	65.66	105.20	-39.54
5720.000	Peak	66.20	5.57	71.77	110.80	-39.03
5725.000	Peak	69.42	5.57	75.00	122.20	-47.20

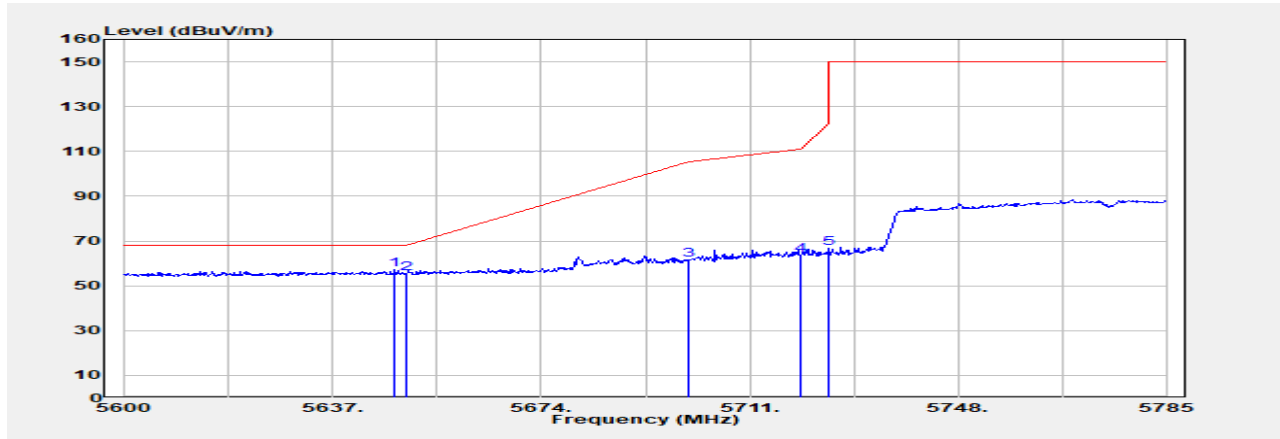
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Report Number :TERF2303000624E2  
 Operation Mode :802.11ac80  
 Test Frequency :5775 MHz  
 Test Mode :Bandedge  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-19  
 Temp./Humi. :23.5°C / 58%  
 Antenna Pol. :Horizontal  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5647.915	Peak	52.62	4.72	57.35	68.20	-10.85
5650.000	Peak	50.95	4.76	55.70	68.20	-12.50
5700.000	Peak	56.11	5.56	61.67	105.20	-43.53
5720.000	Peak	58.38	5.57	63.95	110.80	-46.85
5725.000	Peak	61.11	5.57	66.68	122.20	-55.52

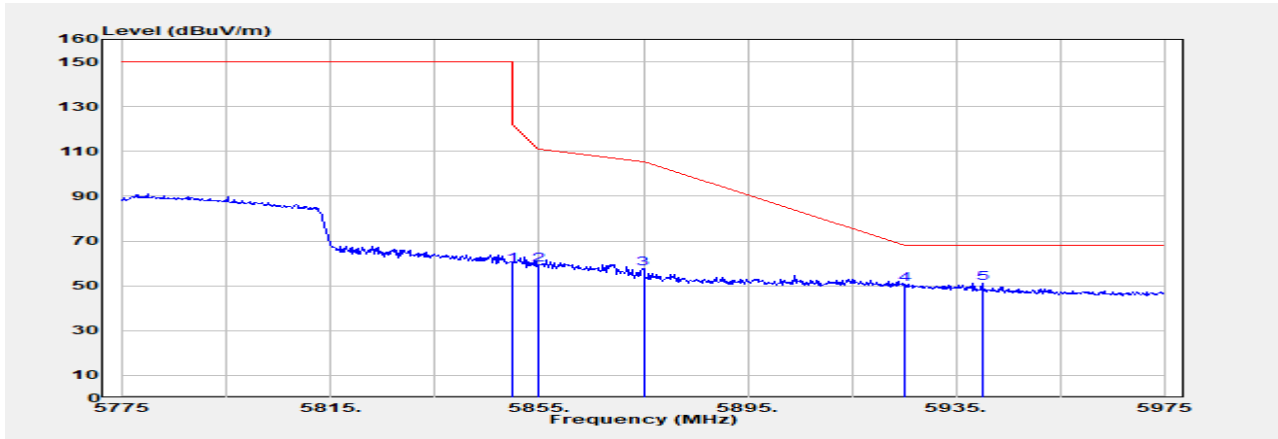
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Report Number :TERF2303000624E2  
 Operation Mode :802.11ac80  
 Test Frequency :5775 MHz  
 Test Mode :Bandedge  
 EUT Pol :H Plane

Test Site :SAC G Chamber  
 Test Date :2023-04-19  
 Temp./Humi. :23.5°C / 58%  
 Antenna Pol. :Vertical  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5850.000	Peak	53.71	5.66	59.38	122.20	-62.82
5855.000	Peak	53.68	5.68	59.37	110.80	-51.43
5875.000	Peak	51.72	5.78	57.50	105.20	-47.70
5925.000	Peak	44.94	5.66	50.60	68.20	-17.60
5940.000	Peak	45.60	5.51	51.11	68.20	-17.09

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Report Number :TERF2303000624E2

Test Site :SAC G Chamber

Operation Mode :802.11ac80

Test Date :2023-04-19

Test Frequency :5775 MHz

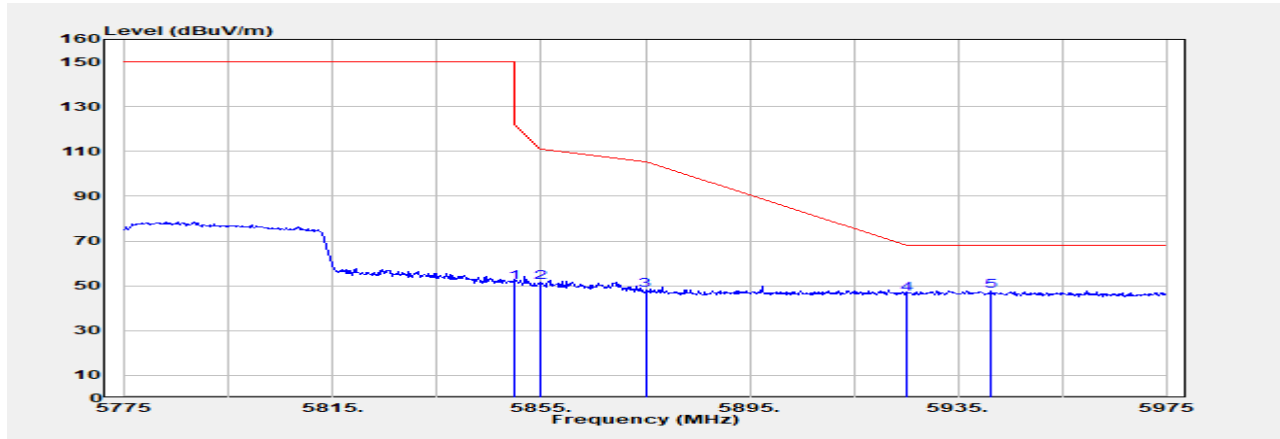
Temp./Humi. :23.5°C / 58%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	45.82	5.66	51.48	122.20	-70.72
5855.000	Peak	45.82	5.68	51.50	110.80	-59.30
5875.000	Peak	42.16	5.78	47.94	105.20	-57.26
5925.000	Peak	40.94	5.66	46.59	68.20	-21.61
5941.400	Peak	42.36	5.50	47.86	68.20	-20.34

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## 12 TRANSMISSION IN THE ABSENCE OF DATA

### 12.1 Standard Applicable

According to §15.407(c) & RSS-247 §6.4

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

### 12.2 Result

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ASK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

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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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