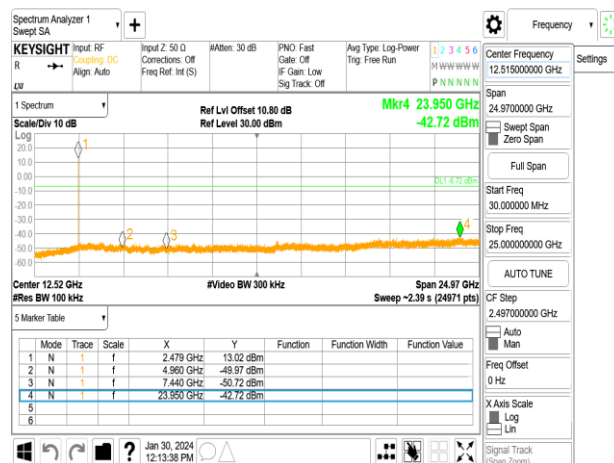


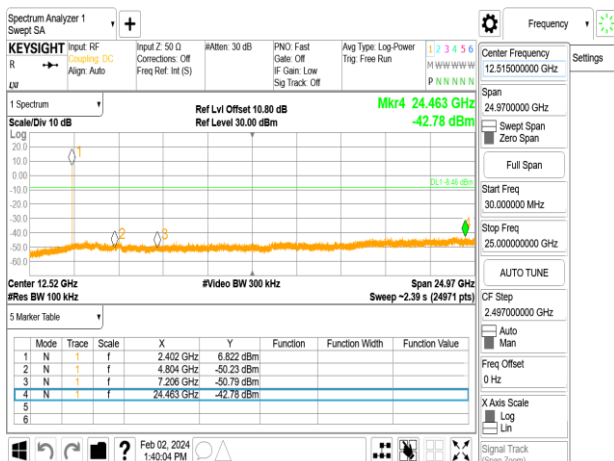
Spurious Emission_BLE 1M_HighCH39-2480MHz



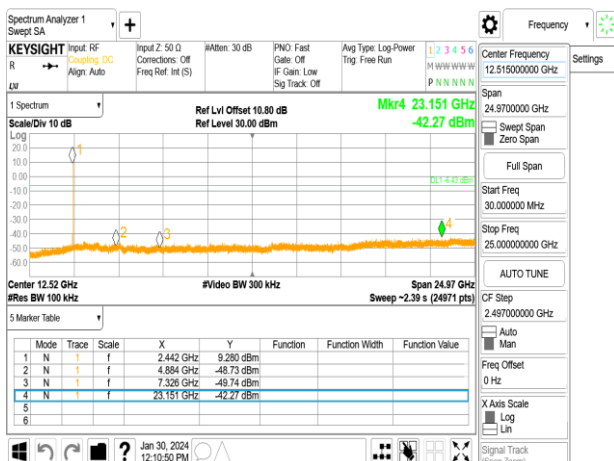
Spurious Emission_BLE 2M_HighCH39-2480MHz



Spurious Emission_BLE 2M_LowCH00-2402MHz



Spurious Emission_BLE 2M_MidCH20-2442MHz



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11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

Spurious Emission

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

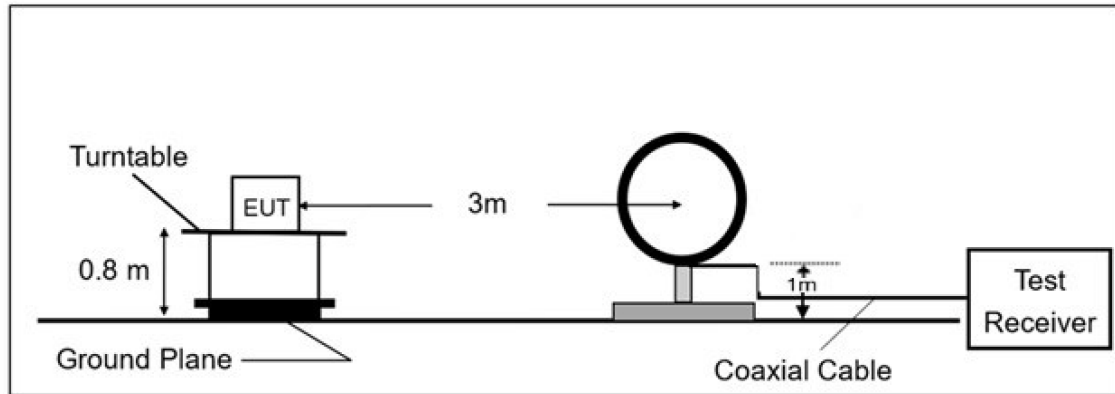
Note: The lower limit shall apply at the transition frequencies.

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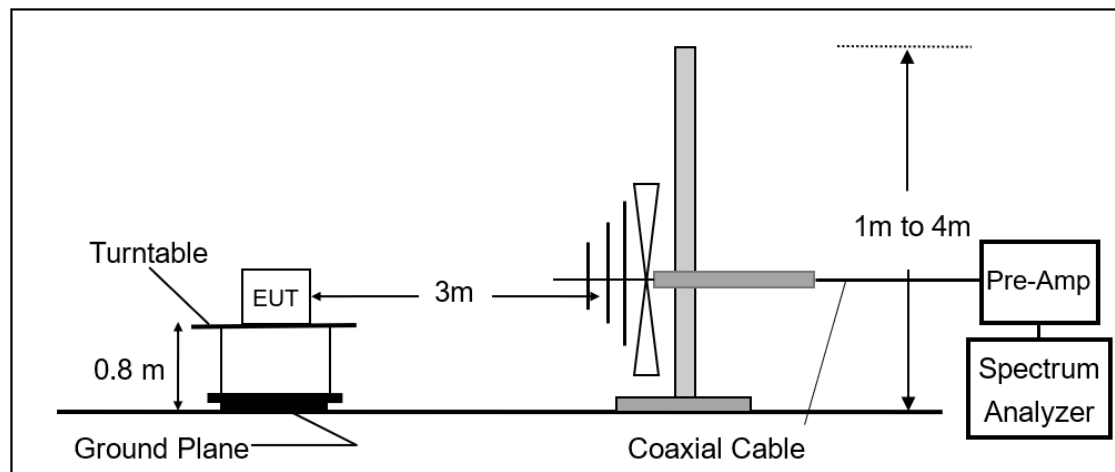
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11.1 Test Setup

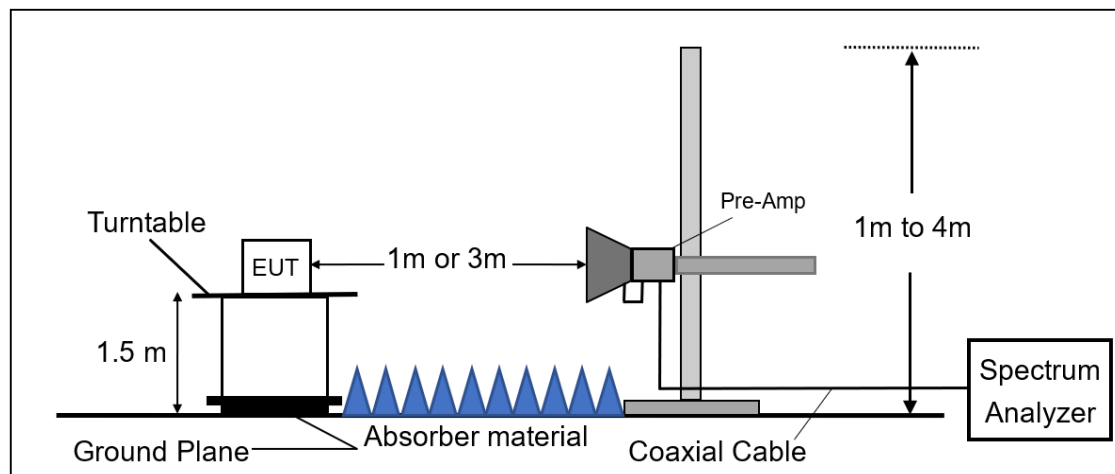
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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11.2 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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11.3 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*

RA = Reading Amplitude

AF = Antenna Factor

CL = Cable Attenuation Factor (Cable Loss)

AG = Amplifier Gain

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

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

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

11.4 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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11.4.1 Radiated Band Edge Measurement Result

Port 1 (Dipole)

Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2024-01-31

Test Frequency :2402 MHz

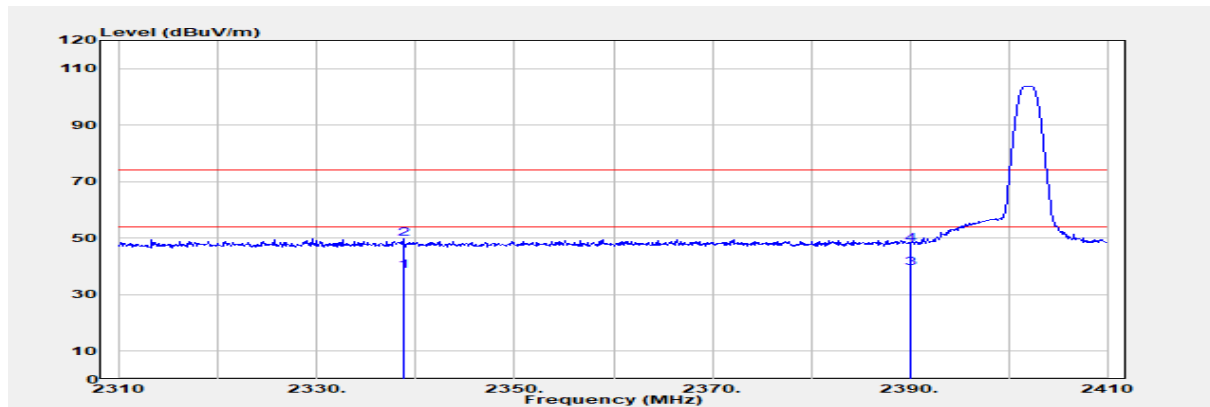
Temp./Humi. :23.2°C/63%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2338.700	Average	43.23	-4.87	38.36	54.00	-15.64
2338.700	Peak	54.70	-4.87	49.83	74.00	-24.17
2390.000	Average	43.84	-4.58	39.26	54.00	-14.74
2390.000	Peak	52.49	-4.58	47.91	74.00	-26.09

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2024-01-31

Test Frequency :2402 MHz

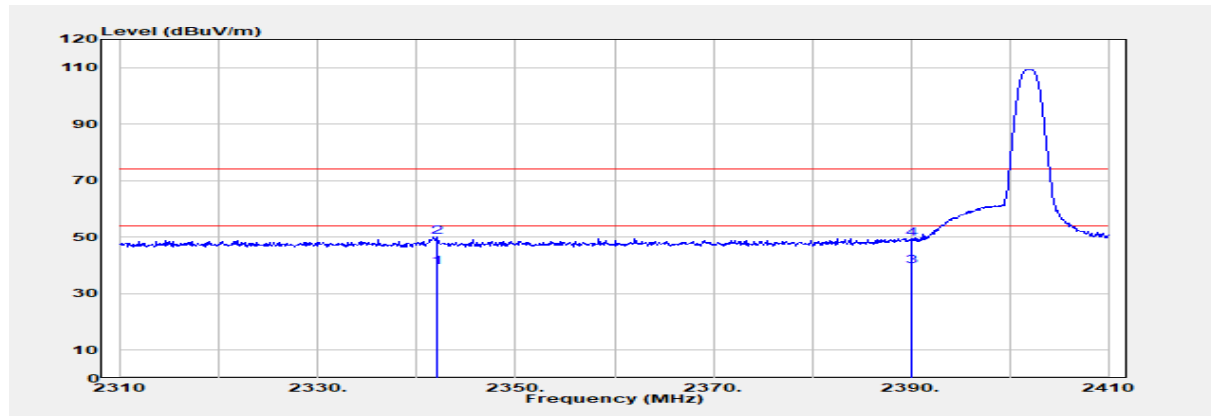
Temp./Humi. :23.2°C/63%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2342.100	Average	44.14	-4.86	39.28	54.00	-14.72
2342.100	Peak	54.85	-4.86	49.99	74.00	-24.01
2390.000	Average	44.23	-4.58	39.64	54.00	-14.36
2390.000	Peak	53.94	-4.58	49.36	74.00	-24.64

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2024-01-31

Test Frequency :2480 MHz

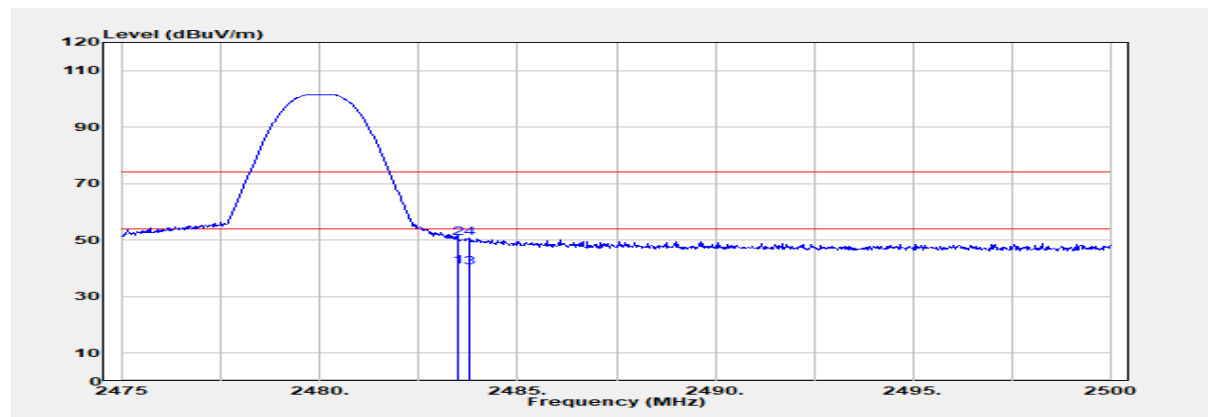
Temp./Humi. :23.2°C/63%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	46.05	-5.30	40.75	54.00	-13.25
2483.500	Peak	56.12	-5.30	50.81	74.00	-23.19
2483.775	Average	45.64	-5.31	40.33	54.00	-13.67
2483.775	Peak	55.89	-5.31	50.59	74.00	-23.41

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2024-01-31

Test Frequency :2480 MHz

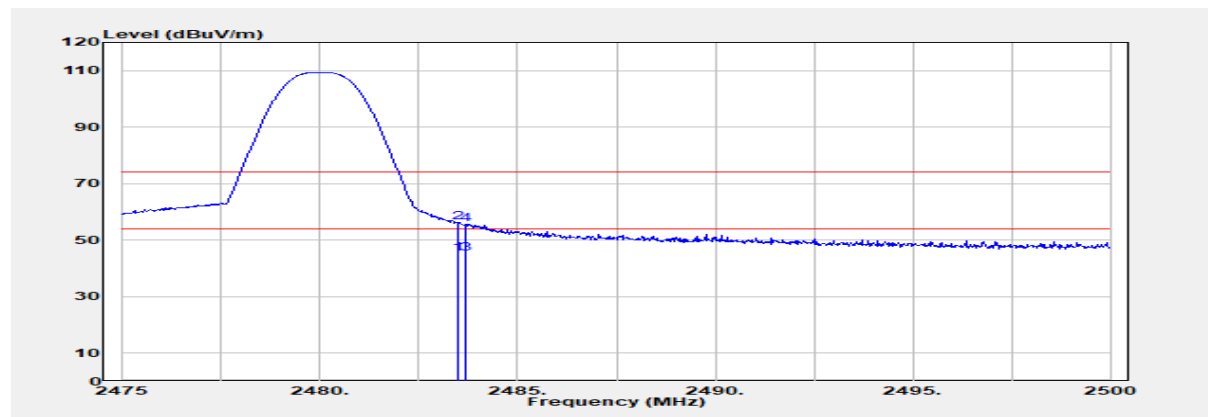
Temp./Humi. :23.2°C/63%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	50.58	-5.30	45.27	54.00	-8.73
2483.500	Peak	61.61	-5.30	56.30	74.00	-17.70
2483.675	Average	50.37	-5.31	45.06	54.00	-8.94
2483.675	Peak	61.04	-5.31	55.74	74.00	-18.26

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 2M

Test Date :2024-01-31

Test Frequency :2402 MHz

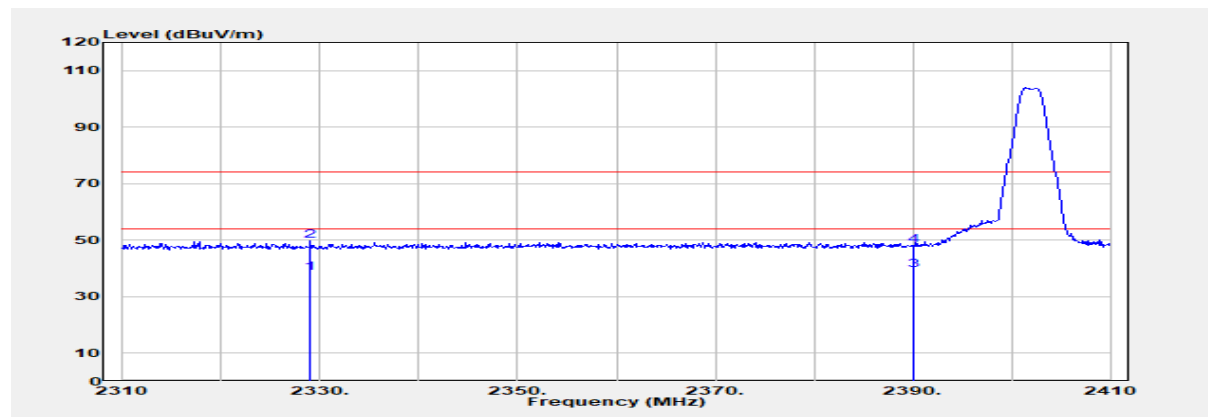
Temp./Humi. :23.2°C/63%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2329.000	Average	43.33	-4.90	38.43	54.00	-15.57
2329.000	Peak	54.54	-4.90	49.64	74.00	-24.36
2390.000	Average	43.84	-4.58	39.26	54.00	-14.74
2390.000	Peak	52.73	-4.58	48.15	74.00	-25.85

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 2M

Test Date :2024-01-31

Test Frequency :2402 MHz

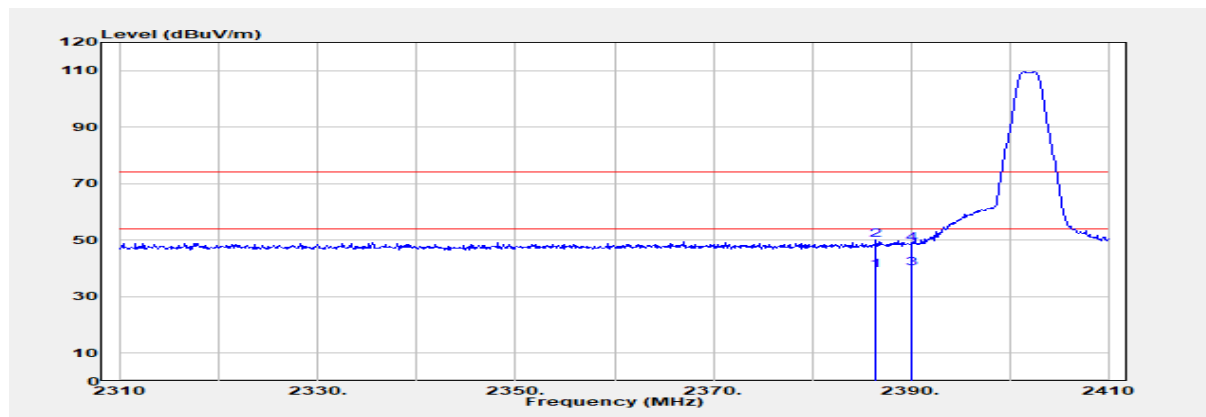
Temp./Humi. :23.2°C/63%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2386.500	Average	44.10	-4.61	39.50	54.00	-14.50
2386.500	Peak	54.63	-4.61	50.03	74.00	-23.97
2390.000	Average	44.61	-4.58	40.02	54.00	-13.98
2390.000	Peak	53.43	-4.58	48.85	74.00	-25.15

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 2M

Test Date :2024-01-31

Test Frequency :2480 MHz

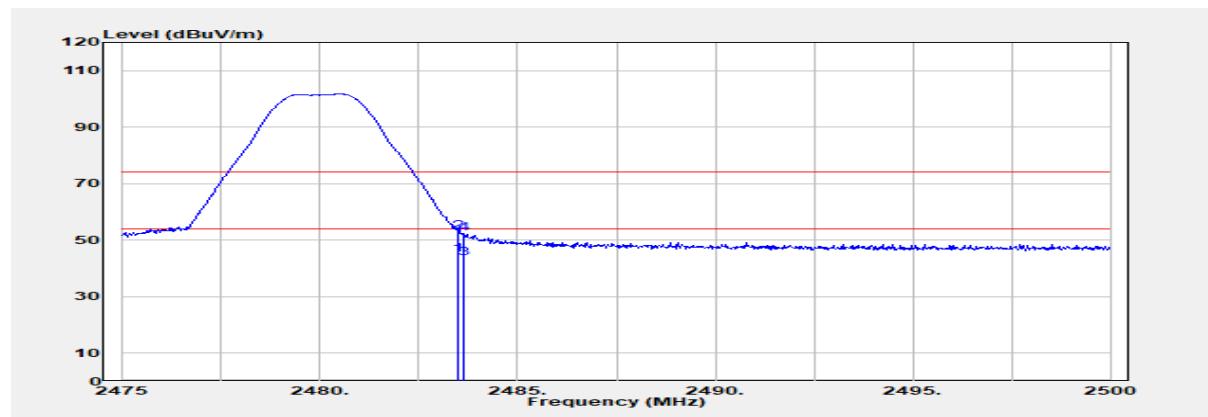
Temp./Humi. :23.2°C/63%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	50.09	-5.30	44.78	54.00	-9.22
2483.500	Peak	58.39	-5.30	53.08	74.00	-20.92
2483.625	Average	48.75	-5.31	43.45	54.00	-10.55
2483.625	Peak	57.72	-5.31	52.41	74.00	-21.59

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 2M

Test Date :2024-01-31

Test Frequency :2480 MHz

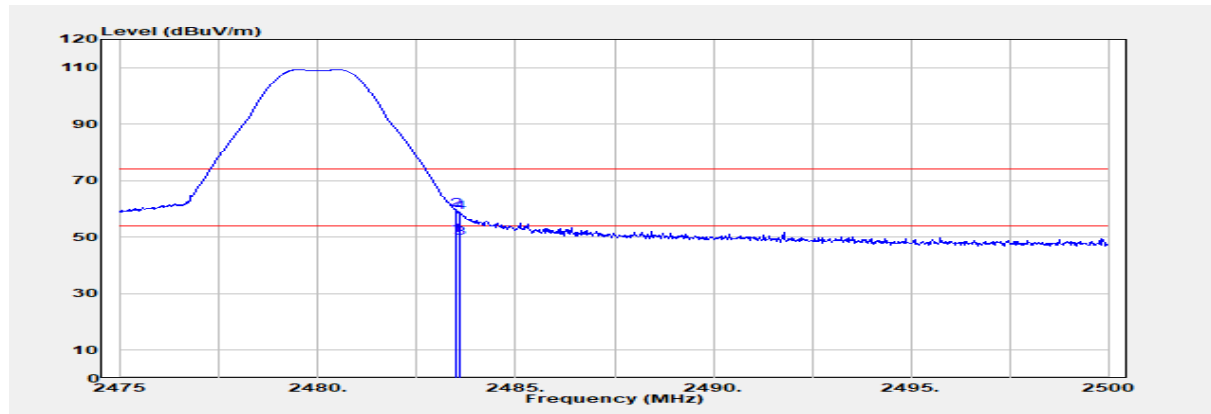
Temp./Humi. :23.2°C/63%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	56.19	-5.30	50.89	54.00	-3.11
2483.500	Peak	65.04	-5.30	59.74	74.00	-14.26
2483.600	Average	54.97	-5.31	49.67	54.00	-4.33
2483.600	Peak	64.02	-5.31	58.71	74.00	-15.29

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Port 1 (monopole)

Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2024-01-08

Test Frequency :2402 MHz

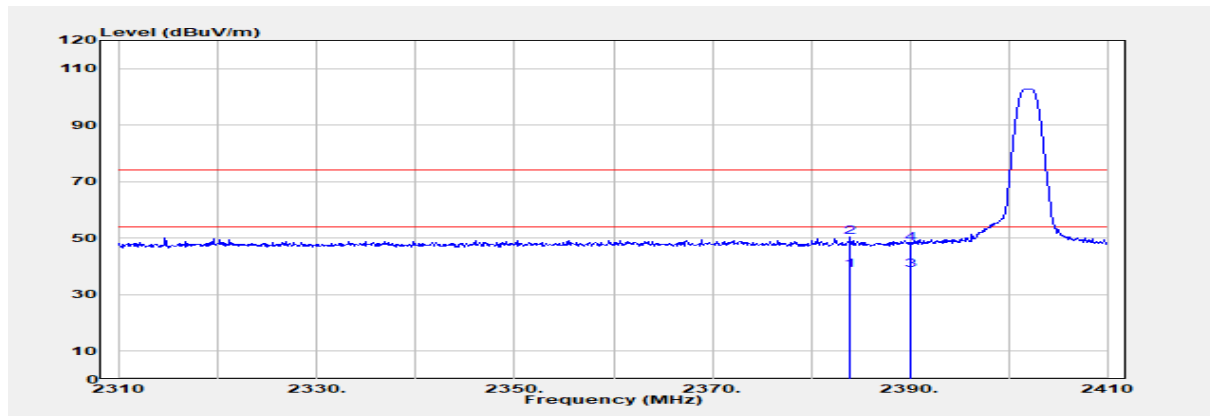
Temp./Humi. :22.9°C/51%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2384.000	Average	43.27	-4.62	38.65	54.00	-15.35
2384.000	Peak	54.87	-4.62	50.25	74.00	-23.75
2390.000	Average	43.42	-4.58	38.84	54.00	-15.16
2390.000	Peak	52.85	-4.58	48.26	74.00	-25.74

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2024-01-08

Test Frequency :2402 MHz

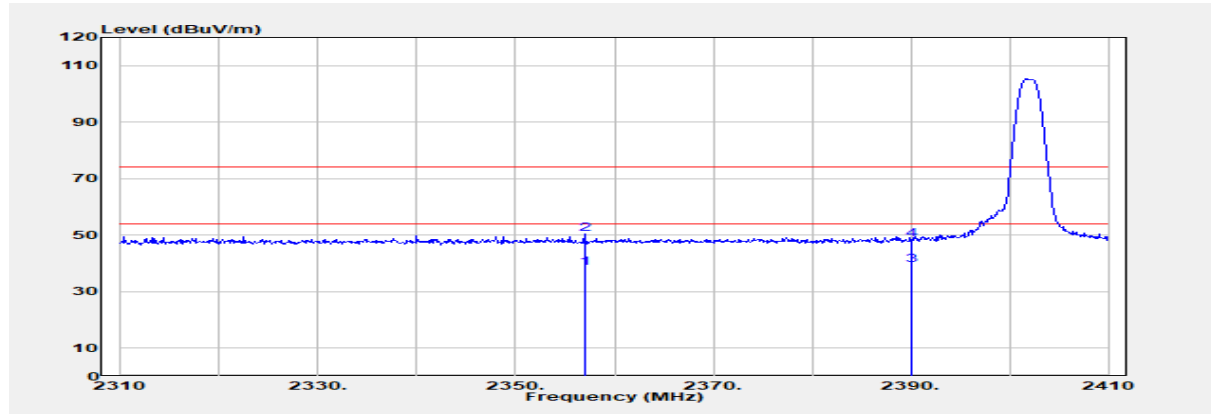
Temp./Humi. :22.9°C/51%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2357.000	Average	43.10	-4.79	38.31	54.00	-15.69
2357.000	Peak	55.13	-4.79	50.34	74.00	-23.66
2390.000	Average	43.81	-4.58	39.23	54.00	-14.77
2390.000	Peak	53.14	-4.58	48.55	74.00	-25.45

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2024-01-08

Test Frequency :2480 MHz

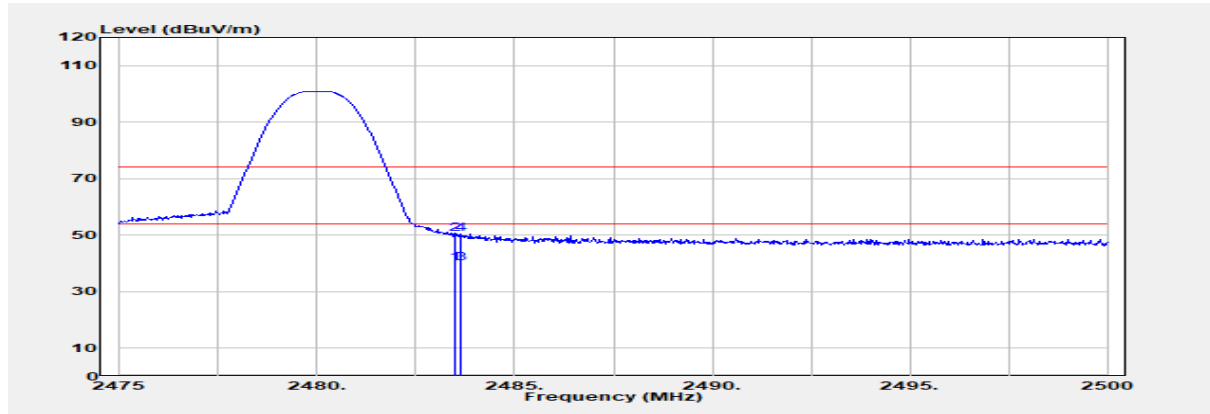
Temp./Humi. :22.9°C/51%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	45.39	-5.30	40.08	54.00	-13.92
2483.500	Peak	55.77	-5.30	50.46	74.00	-23.54
2483.650	Average	45.19	-5.31	39.89	54.00	-14.11
2483.650	Peak	55.77	-5.31	50.46	74.00	-23.54

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2024-01-08

Test Frequency :2480 MHz

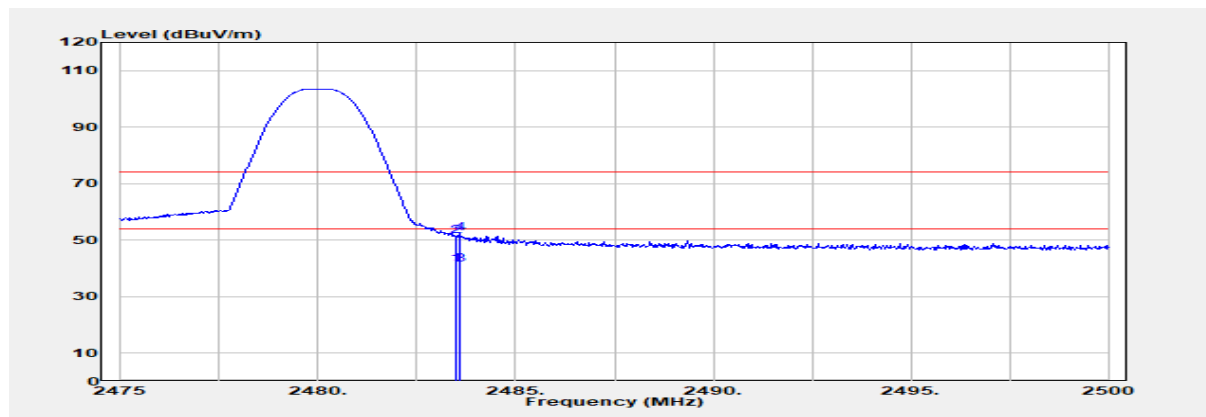
Temp./Humi. :22.9°C/51%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	46.48	-5.30	41.18	54.00	-12.82
2483.500	Peak	56.80	-5.30	51.49	74.00	-22.51
2483.600	Average	46.52	-5.31	41.22	54.00	-12.78
2483.600	Peak	57.67	-5.31	52.36	74.00	-21.64

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 2M

Test Date :2024-01-08

Test Frequency :2402 MHz

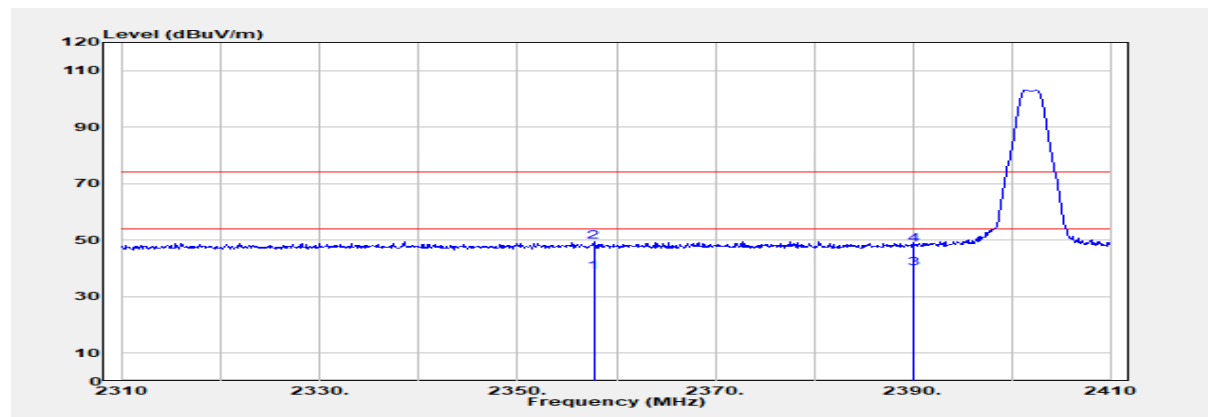
Temp./Humi. :22.9°C/51%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2357.700	Average	43.63	-4.79	38.84	54.00	-15.16
2357.700	Peak	54.32	-4.79	49.53	74.00	-24.47
2390.000	Average	44.48	-4.58	39.90	54.00	-14.10
2390.000	Peak	53.04	-4.58	48.45	74.00	-25.55

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 2M

Test Date :2024-01-08

Test Frequency :2402 MHz

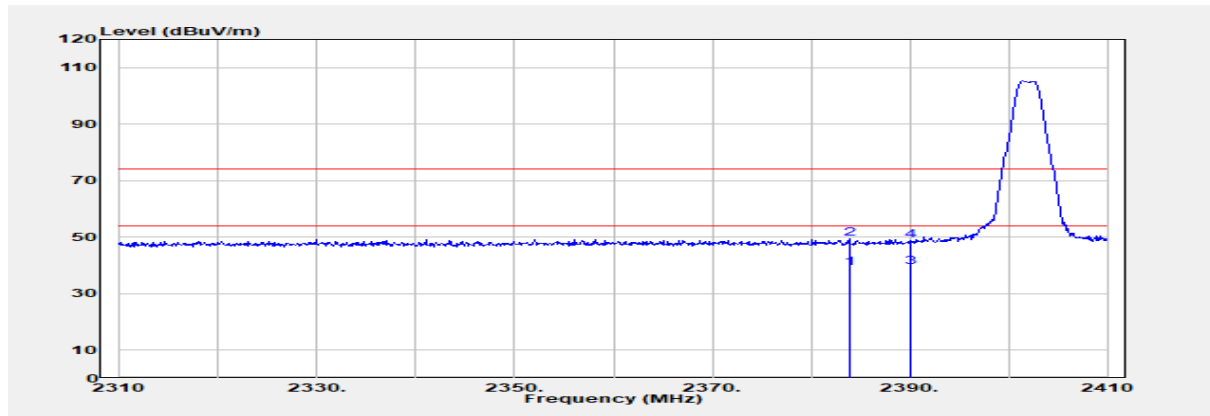
Temp./Humi. :22.9°C/51%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2383.900	Average	43.75	-4.62	39.13	54.00	-14.87
2383.900	Peak	53.95	-4.62	49.32	74.00	-24.68
2390.000	Average	44.05	-4.58	39.46	54.00	-14.54
2390.000	Peak	53.36	-4.58	48.78	74.00	-25.22

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 2M

Test Date :2024-01-08

Test Frequency :2480 MHz

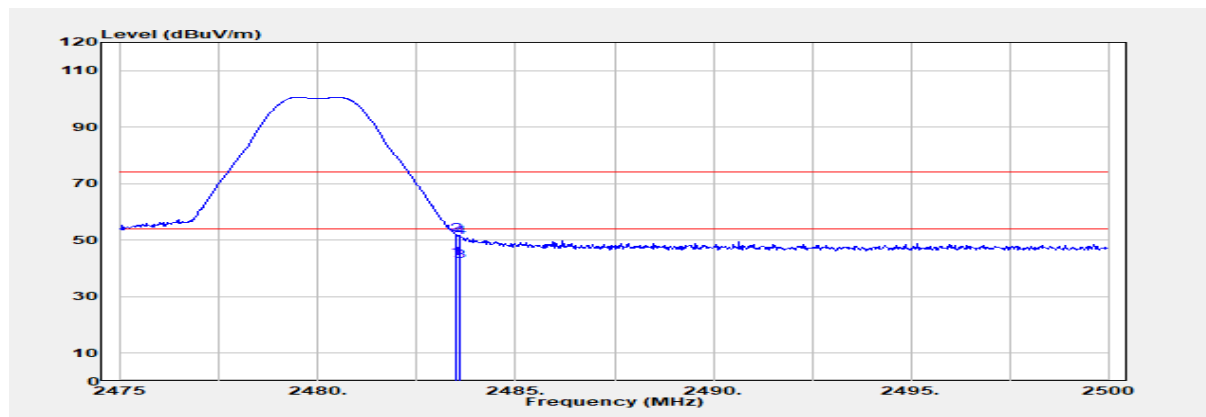
Temp./Humi. :22.9°C/51%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	48.99	-5.30	43.68	54.00	-10.32
2483.500	Peak	57.41	-5.30	52.11	74.00	-21.89
2483.600	Average	47.81	-5.31	42.50	54.00	-11.50
2483.600	Peak	56.37	-5.31	51.07	74.00	-22.93

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 2M

Test Date :2024-01-08

Test Frequency :2480 MHz

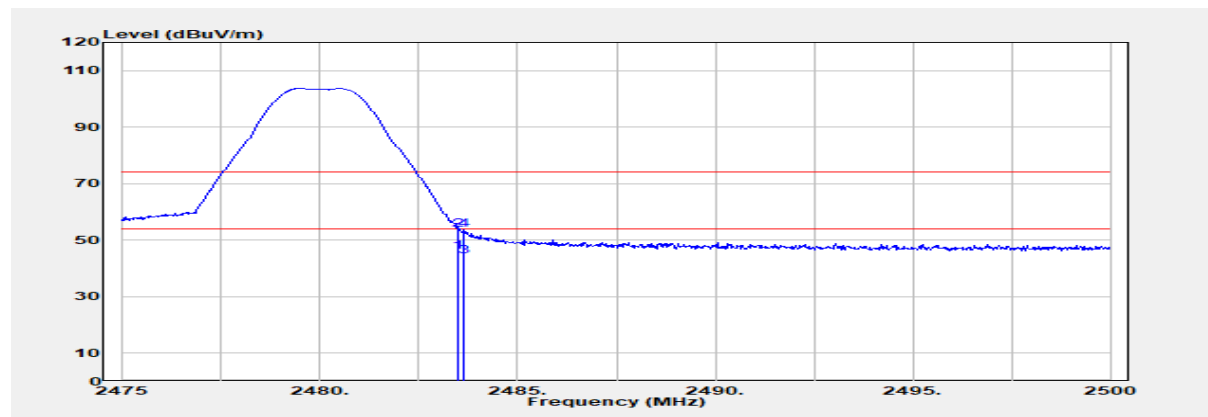
Temp./Humi. :22.9°C/51%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	51.29	-5.30	45.98	54.00	-8.02
2483.500	Peak	58.97	-5.30	53.67	74.00	-20.33
2483.650	Average	49.59	-5.31	44.28	54.00	-9.72
2483.650	Peak	58.82	-5.31	53.51	74.00	-20.49

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Port 2 (Dipole)

Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2024-01-31

Test Frequency :2402 MHz

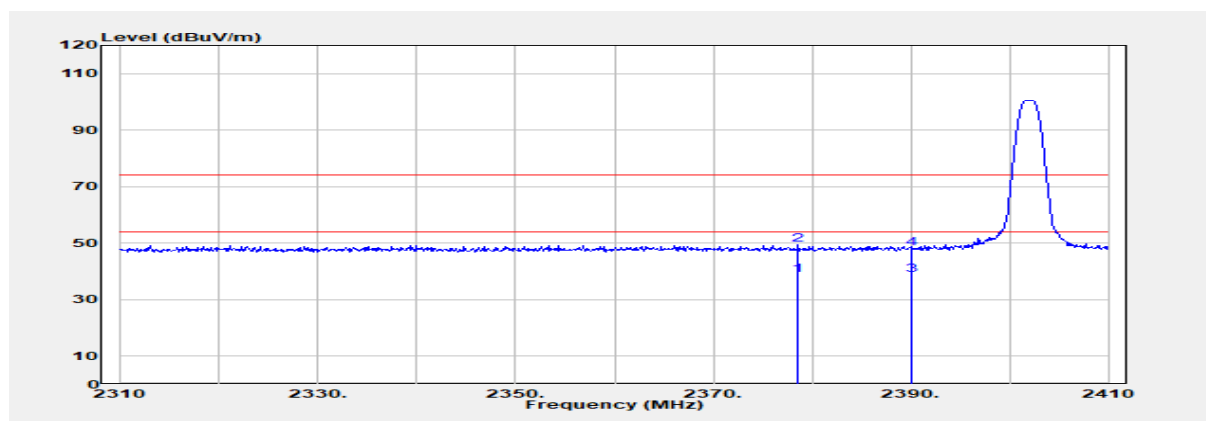
Temp./Humi. :23.2°C/63%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2378.600	Average	43.25	-4.66	38.59	54.00	-15.41
2378.600	Peak	54.13	-4.66	49.48	74.00	-24.52
2390.000	Average	43.30	-4.58	38.72	54.00	-15.28
2390.000	Peak	52.56	-4.58	47.98	74.00	-26.02

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2024-01-31

Test Frequency :2402 MHz

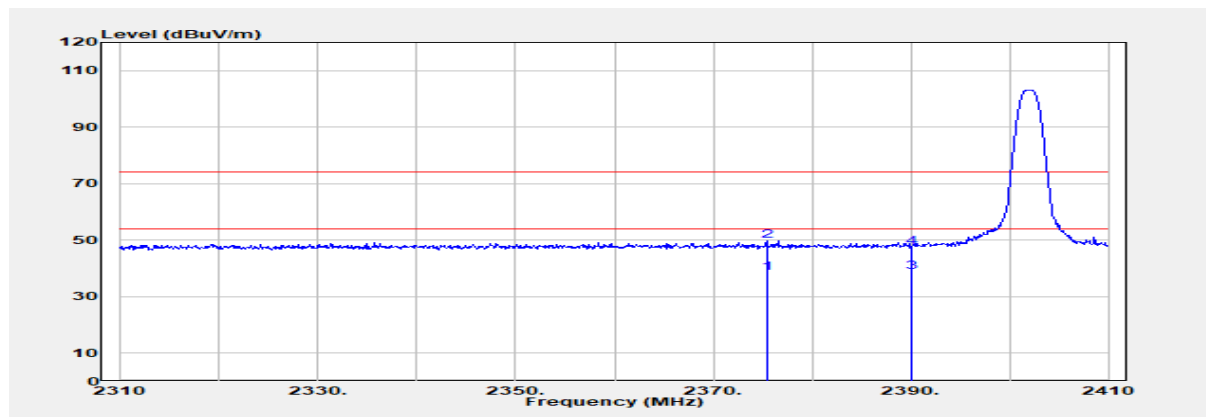
Temp./Humi. :23.2°C/63%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2375.400	Average	43.19	-4.68	38.52	54.00	-15.48
2375.400	Peak	54.45	-4.68	49.77	74.00	-24.23
2390.000	Average	43.41	-4.58	38.83	54.00	-15.17
2390.000	Peak	52.12	-4.58	47.53	74.00	-26.47

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Report Number :TERF2312003242E2

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2024-01-31

Test Frequency :2404 MHz

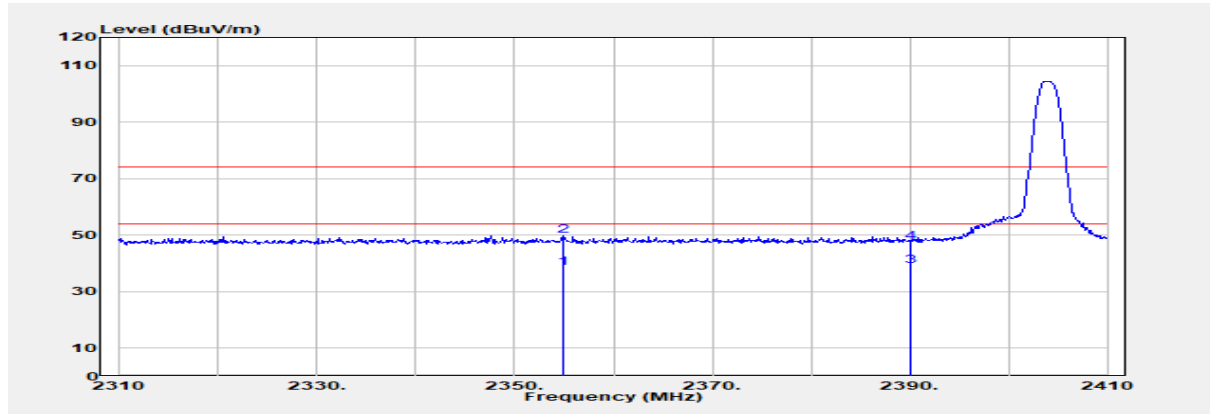
Temp./Humi. :23.2°C/63%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2355.000	Average	43.20	-4.80	38.40	54.00	-15.60
2355.000	Peak	54.65	-4.80	49.85	74.00	-24.15
2390.000	Average	43.54	-4.58	38.96	54.00	-15.04
2390.000	Peak	52.10	-4.58	47.52	74.00	-26.48

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Report Number :TERF2312003242E2

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2024-01-31

Test Frequency :2404 MHz

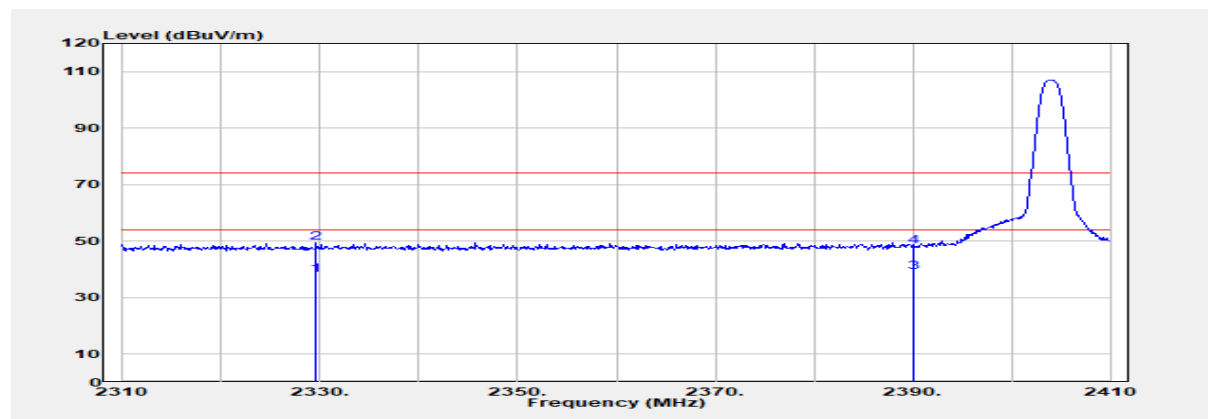
Temp./Humi. :23.2°C/63%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2329.600	Average	43.10	-4.90	38.20	54.00	-15.80
2329.600	Peak	54.40	-4.90	49.50	74.00	-24.50
2390.000	Average	43.57	-4.58	38.98	54.00	-15.02
2390.000	Peak	52.69	-4.58	48.10	74.00	-25.90

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2024-01-31

Test Frequency :2480 MHz

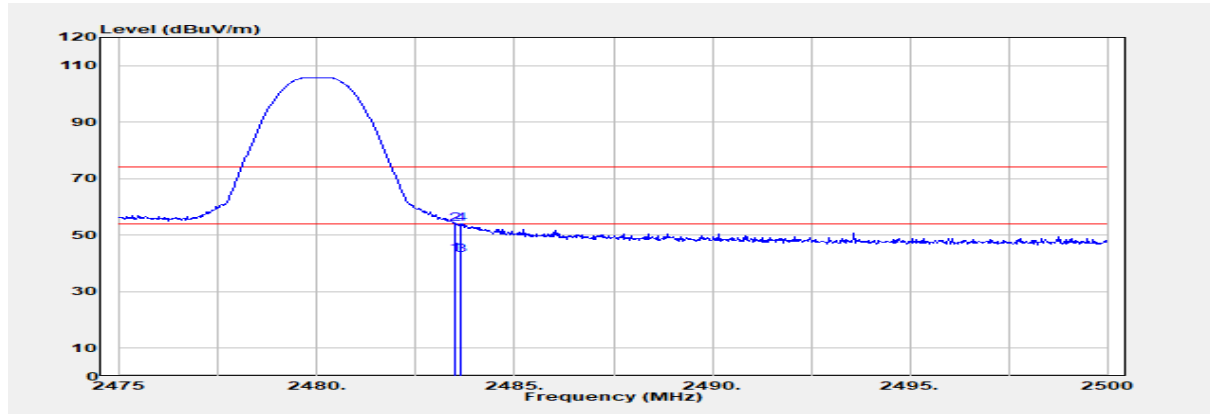
Temp./Humi. :23.2°C/63%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	48.52	-5.30	43.22	54.00	-10.78
2483.500	Peak	59.41	-5.30	54.11	74.00	-19.89
2483.625	Average	48.38	-5.31	43.08	54.00	-10.92
2483.625	Peak	59.27	-5.31	53.96	74.00	-20.04

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2024-01-31

Test Frequency :2480 MHz

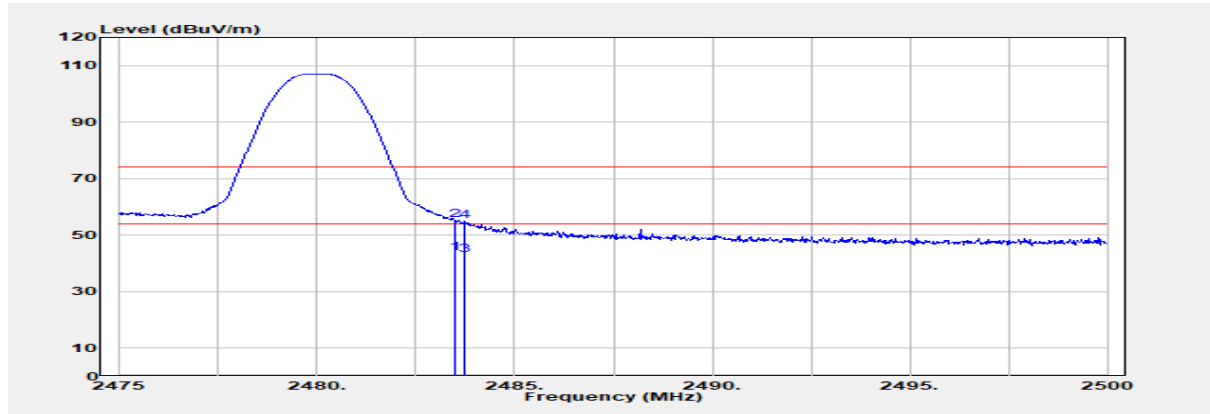
Temp./Humi. :23.2°C/63%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	48.88	-5.30	43.58	54.00	-10.42
2483.500	Peak	60.53	-5.30	55.23	74.00	-18.77
2483.725	Average	48.34	-5.31	43.04	54.00	-10.96
2483.725	Peak	60.35	-5.31	55.05	74.00	-18.95

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 2M

Test Date :2024-01-31

Test Frequency :2402 MHz

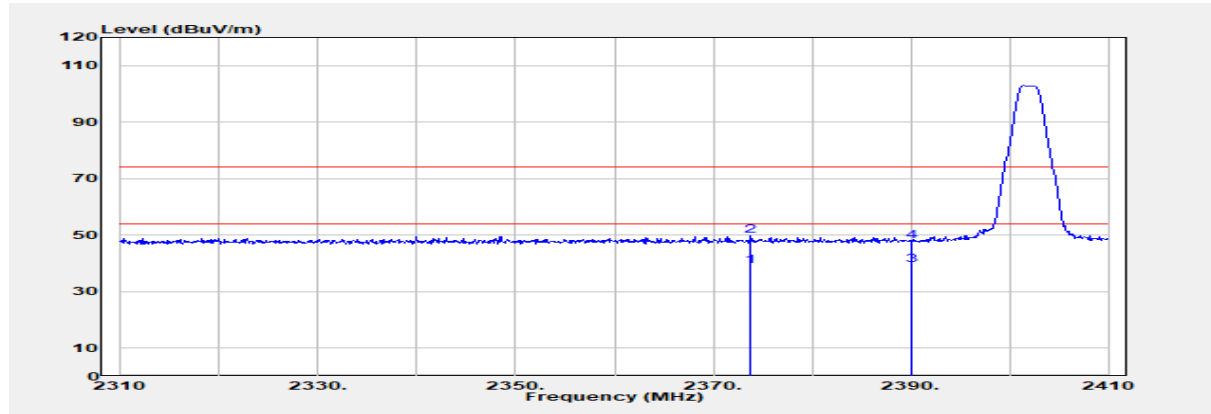
Temp./Humi. :23.2°C/63%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2373.800	Average	43.85	-4.69	39.16	54.00	-14.84
2373.800	Peak	54.59	-4.69	49.90	74.00	-24.10
2390.000	Average	43.97	-4.58	39.38	54.00	-14.62
2390.000	Peak	52.50	-4.58	47.92	74.00	-26.08

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 2M

Test Date :2024-01-31

Test Frequency :2402 MHz

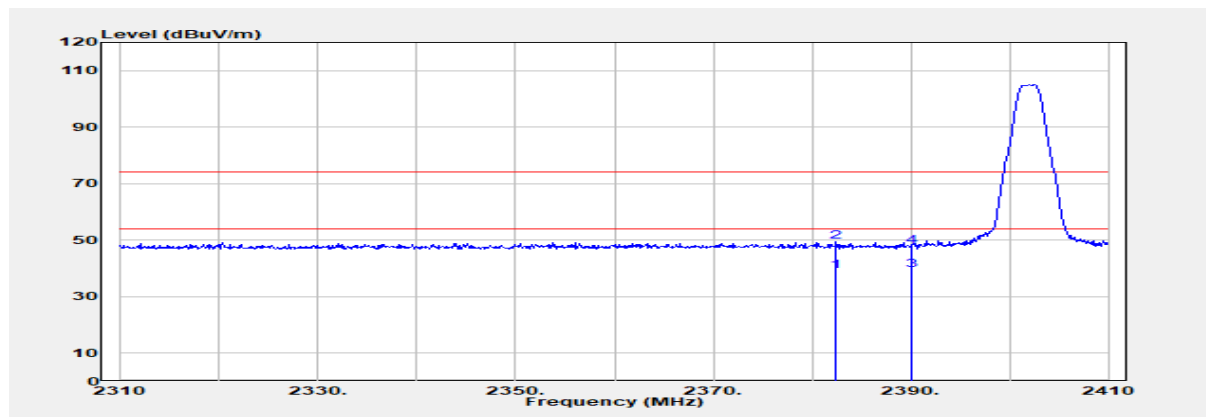
Temp./Humi. :23.2°C/63%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2382.400	Average	43.69	-4.63	39.06	54.00	-14.94
2382.400	Peak	54.02	-4.63	49.39	74.00	-24.61
2390.000	Average	43.95	-4.58	39.36	54.00	-14.64
2390.000	Peak	52.23	-4.58	47.65	74.00	-26.35

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 2M

Test Date :2024-01-31

Test Frequency :2480 MHz

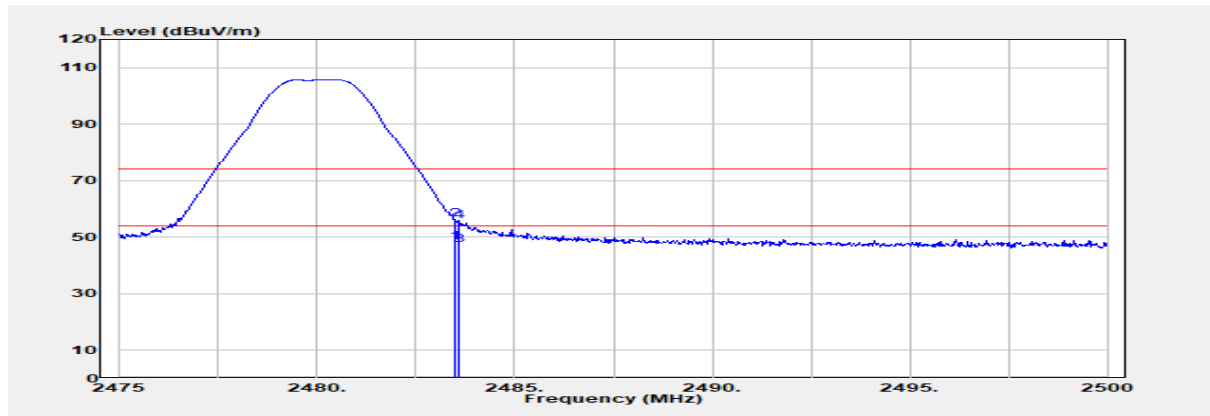
Temp./Humi. :23.2°C/63%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	53.54	-5.30	48.24	54.00	-5.76
2483.500	Peak	61.68	-5.30	56.38	74.00	-17.62
2483.600	Average	52.33	-5.31	47.02	54.00	-6.98
2483.600	Peak	60.98	-5.31	55.67	74.00	-18.33

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 2M

Test Date :2024-01-31

Test Frequency :2480 MHz

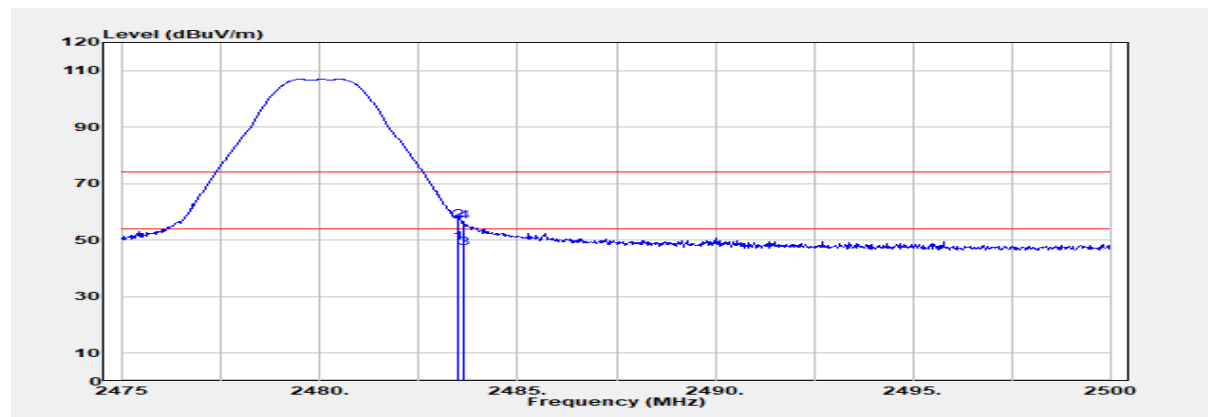
Temp./Humi. :23.2°C/63%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	54.49	-5.30	49.19	54.00	-4.81
2483.500	Peak	62.12	-5.30	56.82	74.00	-17.18
2483.650	Average	52.41	-5.31	47.10	54.00	-6.90
2483.650	Peak	61.89	-5.31	56.58	74.00	-17.42

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11.4.2 Radiated Spurious Emission

Port 1 (Dipole)

Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2024-01-31

Test Frequency :2442 MHz

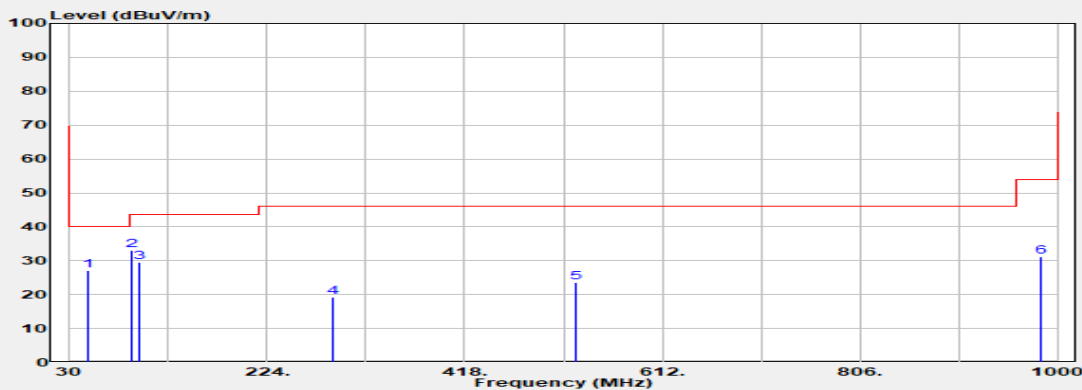
Temp./Humi. :23.2 °C/63%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
47.460	Peak	43.97	-16.83	27.15	40.00	-12.85
90.140	Peak	55.70	-22.67	33.03	43.50	-10.47
98.870	Peak	51.81	-22.22	29.59	43.50	-13.91
288.020	Peak	35.33	-15.96	19.37	46.00	-26.63
526.640	Peak	34.14	-10.58	23.56	46.00	-22.44
983.510	Peak	35.36	-4.26	31.11	54.00	-22.89

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2024-01-31

Test Frequency :2442 MHz

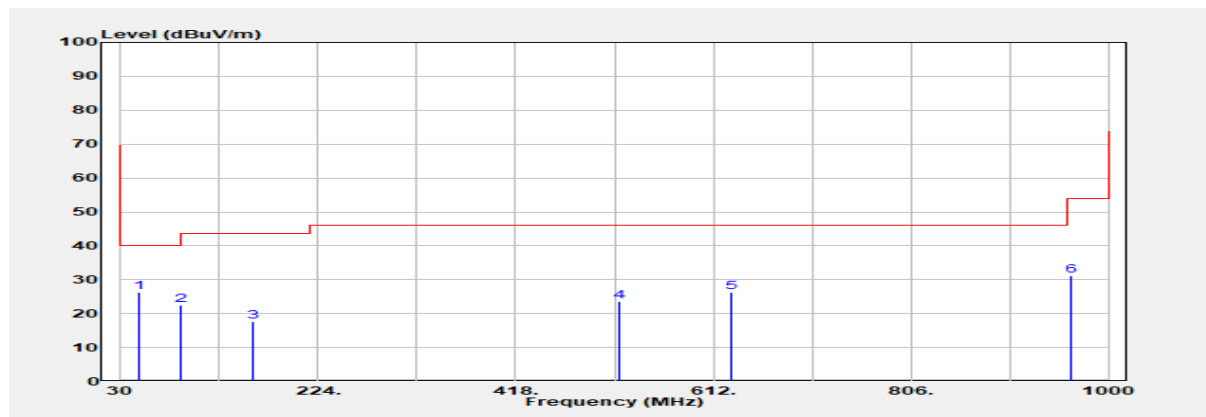
Temp./Humi. :23.2 °C/63%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
47.460	Peak	43.10	-16.83	26.27	40.00	-13.73
88.200	Peak	45.21	-22.72	22.49	43.50	-21.01
159.010	Peak	33.92	-16.29	17.63	43.50	-25.87
518.880	Peak	34.30	-10.69	23.61	46.00	-22.39
629.460	Peak	34.52	-8.35	26.16	46.00	-19.84
963.140	Peak	35.27	-4.08	31.20	54.00	-22.80

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 2M

Test Date :2024-01-31

Test Frequency :2442 MHz

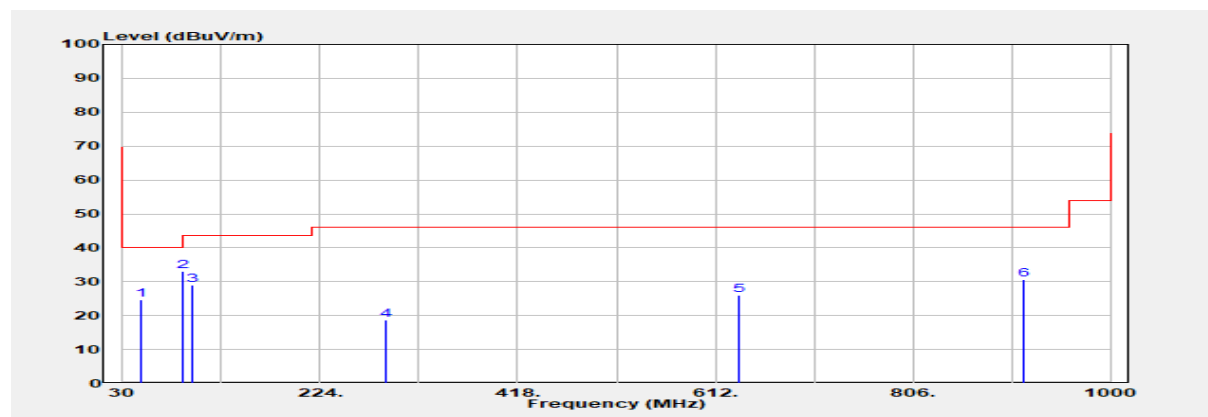
Temp./Humi. :23.2 °C/63%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
48.430	Peak	41.56	-16.78	24.78	40.00	-15.22
89.170	Peak	55.78	-22.76	33.02	43.50	-10.48
98.870	Peak	51.30	-22.22	29.08	43.50	-14.42
288.020	Peak	34.76	-15.96	18.80	46.00	-27.20
635.280	Peak	34.21	-8.28	25.94	46.00	-20.06
914.640	Peak	35.40	-4.68	30.72	46.00	-15.28

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 2M

Test Date :2024-06-06

Test Frequency :2442 MHz

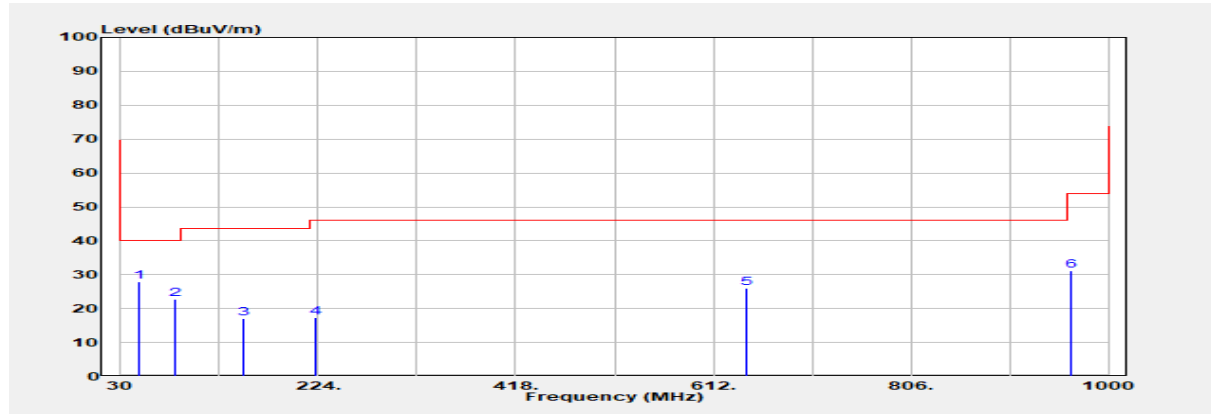
Temp./Humi. :23.2 °C/63%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
47.460	Peak	44.76	-16.83	27.94	40.00	-12.06
83.350	Peak	44.96	-22.31	22.66	40.00	-17.34
151.250	Peak	33.00	-15.92	17.08	43.50	-26.42
222.060	Peak	36.88	-19.47	17.41	46.00	-28.59
644.010	Peak	34.22	-8.28	25.94	46.00	-20.06
963.140	Peak	35.34	-4.08	31.27	54.00	-22.73

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2024-01-31

Test Frequency :2402 MHz

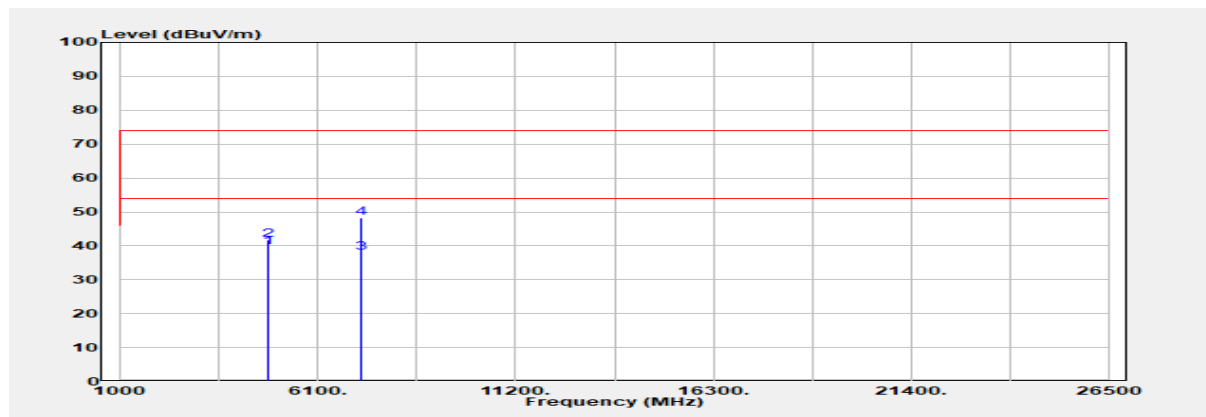
Temp./Humi. :23.2 °C/63%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.000	Average	38.59	0.98	39.57	54.00	-14.43
4804.000	Peak	40.83	0.98	41.81	74.00	-32.19
7206.000	Average	29.72	8.13	37.84	54.00	-16.16
7206.000	Peak	40.09	8.13	48.22	74.00	-25.78

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2024-01-31

Test Frequency :2402 MHz

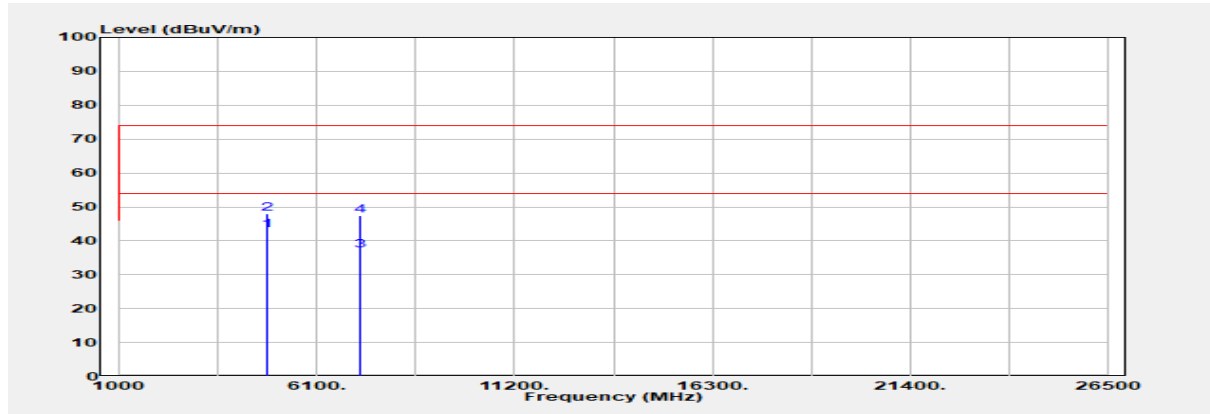
Temp./Humi. :23.2 °C/63%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.000	Average	42.00	0.98	42.99	54.00	-11.01
4804.000	Peak	46.93	0.98	47.91	74.00	-26.09
7206.000	Average	29.01	8.13	37.13	54.00	-16.87
7206.000	Peak	39.27	8.13	47.40	74.00	-26.60

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2024-01-31

Test Frequency :2442 MHz

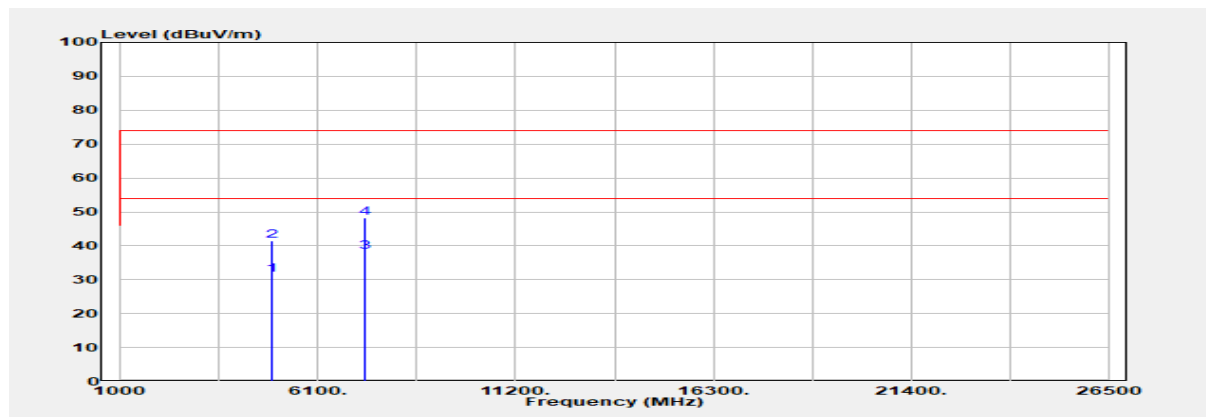
Temp./Humi. :23.2 °C/63%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4884.000	Average	30.55	0.97	31.52	54.00	-22.48
4884.000	Peak	40.45	0.97	41.42	74.00	-32.58
7326.000	Average	29.14	9.03	38.17	54.00	-15.83
7326.000	Peak	39.15	9.03	48.18	74.00	-25.82

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2024-01-31

Test Frequency :2442 MHz

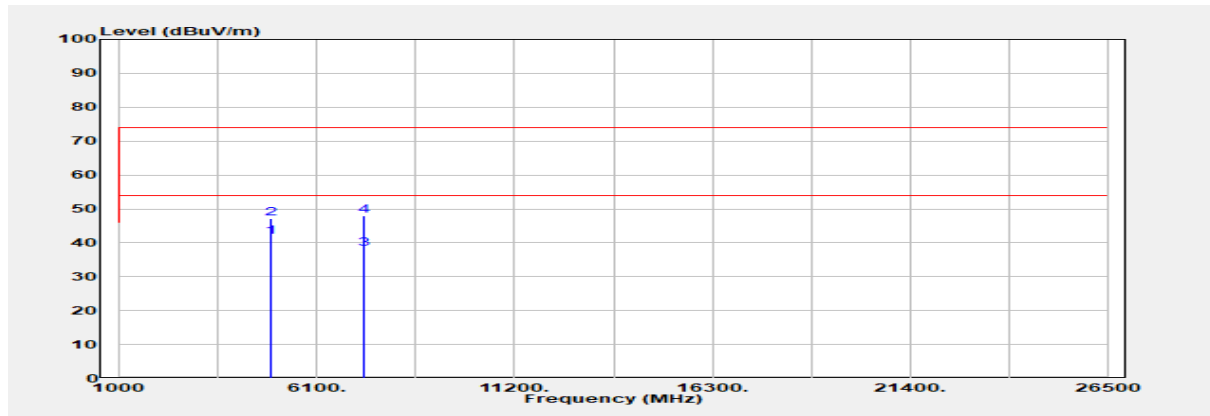
Temp./Humi. :23.2 °C/63%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4884.000	Average	40.78	0.97	41.75	54.00	-12.25
4884.000	Peak	46.16	0.97	47.13	74.00	-26.87
7326.000	Average	29.05	9.03	38.08	54.00	-15.92
7326.000	Peak	39.06	9.03	48.08	74.00	-25.92

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2024-01-31

Test Frequency :2480 MHz

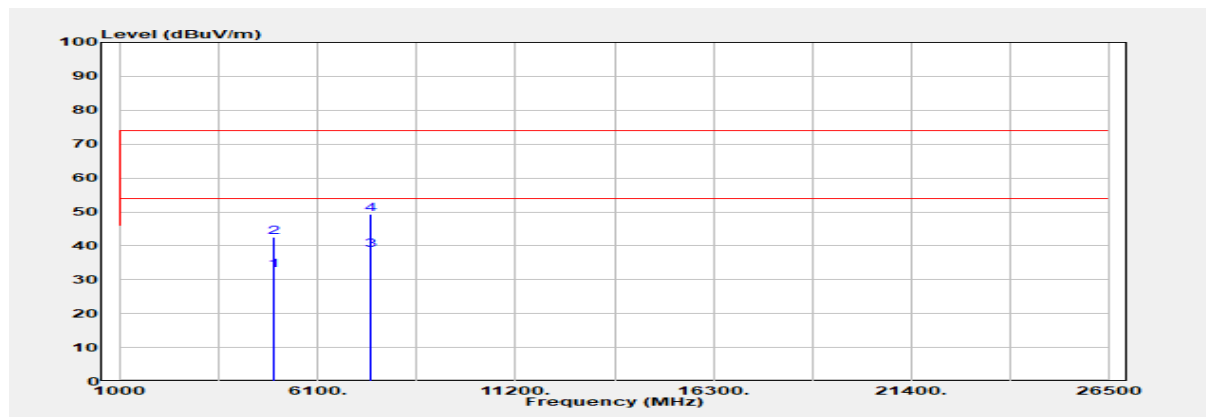
Temp./Humi. :23.2 °C/63%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.000	Average	31.01	1.87	32.87	54.00	-21.13
4960.000	Peak	40.74	1.87	42.60	74.00	-31.40
7440.000	Average	28.65	9.98	38.63	54.00	-15.37
7440.000	Peak	39.25	9.98	49.23	74.00	-24.77

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2024-01-31

Test Frequency :2480 MHz

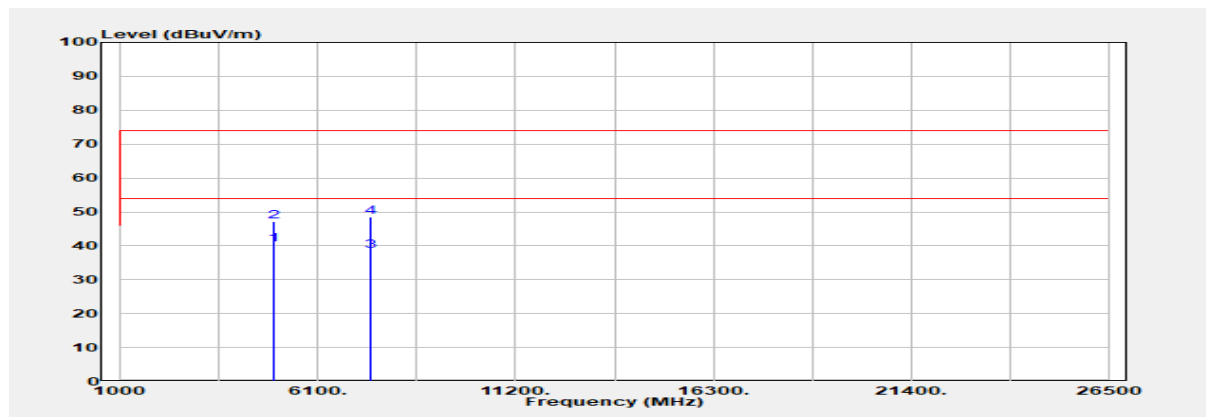
Temp./Humi. :23.2 °C/63%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Average	38.47	1.87	40.33	54.00	-13.67
4960.000	Peak	45.20	1.87	47.06	74.00	-26.94
7440.000	Average	28.45	9.98	38.43	54.00	-15.57
7440.000	Peak	38.62	9.98	48.60	74.00	-25.40

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 2M

Test Date :2024-01-31

Test Frequency :2402 MHz

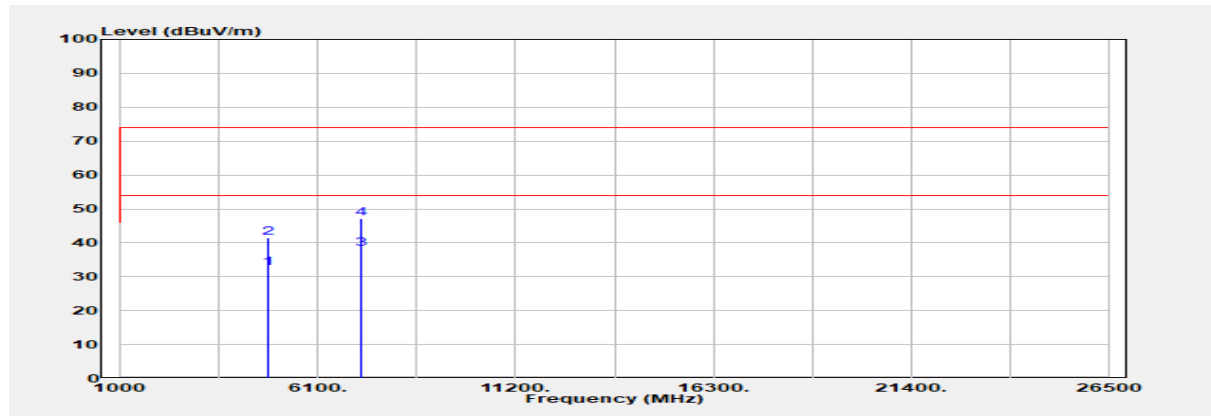
Temp./Humi. :23.2 °C/63%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.000	Average	31.53	0.98	32.51	54.00	-21.49
4804.000	Peak	40.46	0.98	41.44	74.00	-32.56
7206.000	Average	29.99	8.13	38.12	54.00	-15.88
7206.000	Peak	39.15	8.13	47.27	74.00	-26.73

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 2M

Test Date :2024-01-31

Test Frequency :2402 MHz

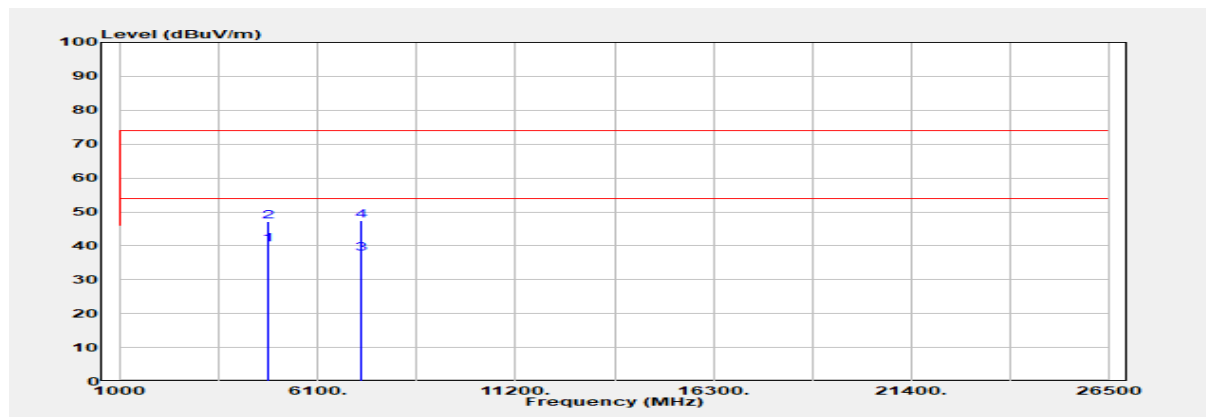
Temp./Humi. :23.2 °C/63%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.000	Average	39.48	0.98	40.46	54.00	-13.54
4804.000	Peak	46.22	0.98	47.21	74.00	-26.79
7206.000	Average	29.51	8.13	37.64	54.00	-16.36
7206.000	Peak	39.18	8.13	47.31	74.00	-26.69

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 2M

Test Date :2024-01-31

Test Frequency :2442 MHz

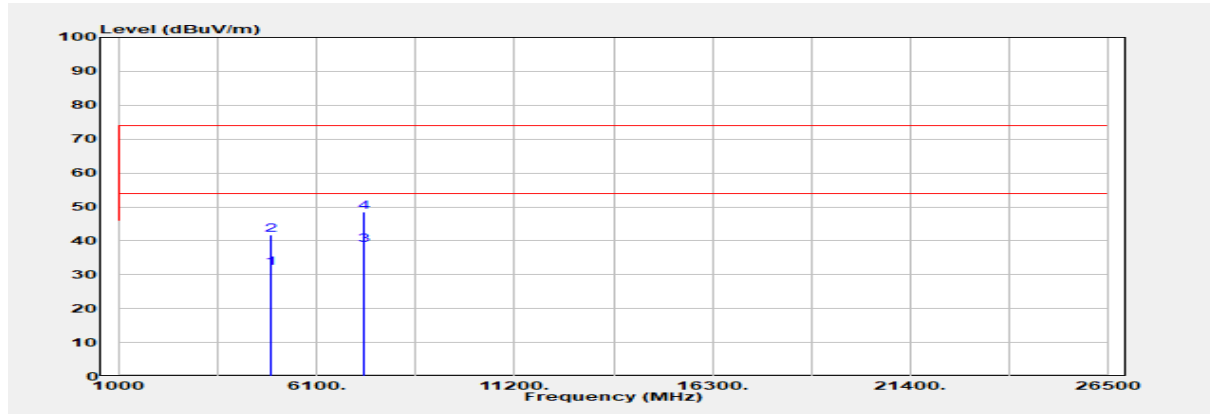
Temp./Humi. :23.2 °C/63%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4884.000	Average	31.01	0.97	31.98	54.00	-22.02
4884.000	Peak	40.73	0.97	41.70	74.00	-32.30
7326.000	Average	29.74	9.03	38.77	54.00	-15.23
7326.000	Peak	39.49	9.03	48.52	74.00	-25.48

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 2M

Test Date :2024-01-31

Test Frequency :2442 MHz

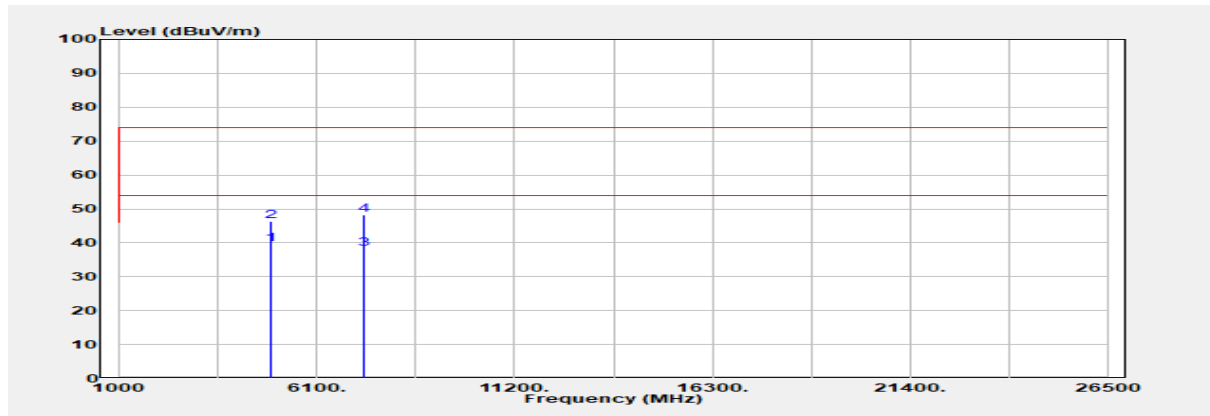
Temp./Humi. :23.2 °C/63%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4884.000	Average	38.69	0.97	39.66	54.00	-14.34
4884.000	Peak	45.32	0.97	46.29	74.00	-27.71
7326.000	Average	29.30	9.03	38.33	54.00	-15.67
7326.000	Peak	39.16	9.03	48.19	74.00	-25.81

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 2M

Test Date :2024-01-31

Test Frequency :2480 MHz

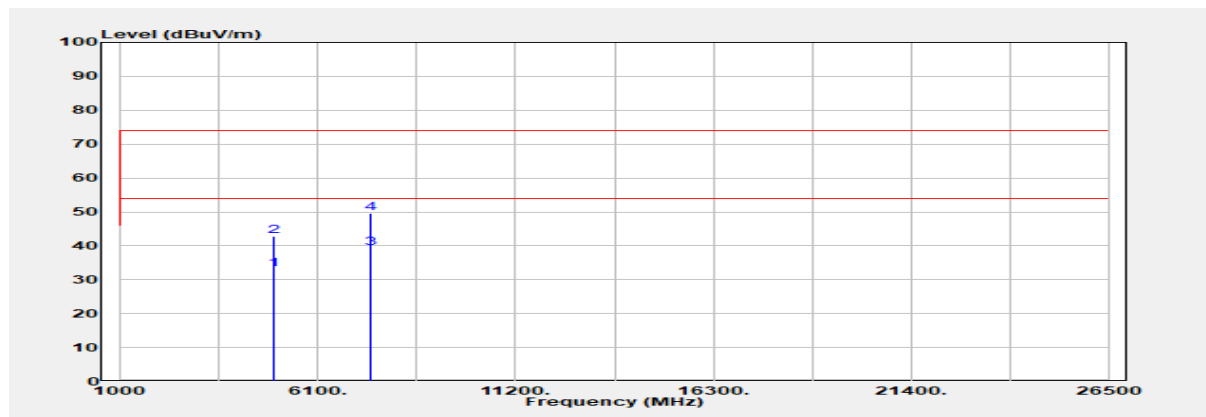
Temp./Humi. :23.2 °C/63%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.000	Average	31.28	1.87	33.15	54.00	-20.85
4960.000	Peak	41.07	1.87	42.93	74.00	-31.07
7440.000	Average	29.23	9.98	39.21	54.00	-14.79
7440.000	Peak	39.54	9.98	49.52	74.00	-24.48

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 2M

Test Date :2024-01-31

Test Frequency :2480 MHz

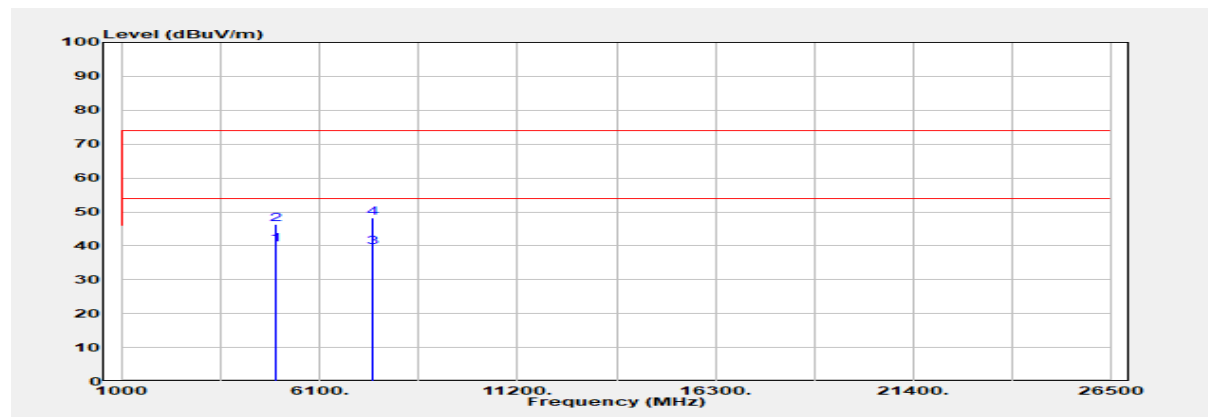
Temp./Humi. :23.2 °C/63%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Average	38.62	1.87	40.48	54.00	-13.52
4960.000	Peak	44.52	1.87	46.39	74.00	-27.61
7440.000	Average	29.64	9.98	39.63	54.00	-14.37
7440.000	Peak	38.39	9.98	48.37	74.00	-25.63

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Port 1 (monopole)

Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2024-01-08

Test Frequency :2442 MHz

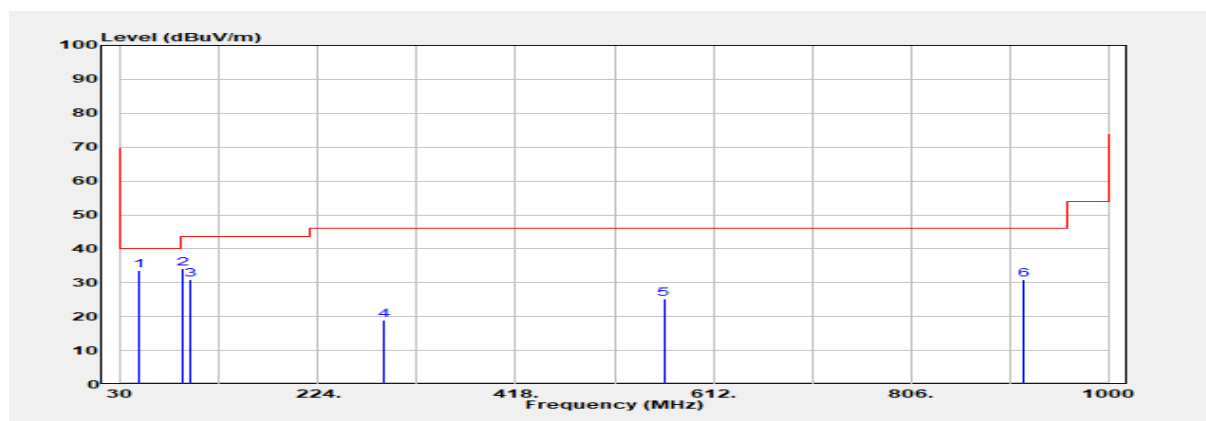
Temp./Humi. :22.9°C/51%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
47.460	Peak	50.33	-16.83	33.50	40.00	-6.50
90.140	Peak	56.82	-22.67	34.15	43.50	-9.35
97.900	Peak	53.08	-22.18	30.90	43.50	-12.60
288.020	Peak	35.05	-15.96	19.08	46.00	-26.92
563.500	Peak	35.59	-10.50	25.08	46.00	-20.92
916.580	Peak	35.59	-4.58	31.01	46.00	-14.99

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2024-01-08

Test Frequency :2442 MHz

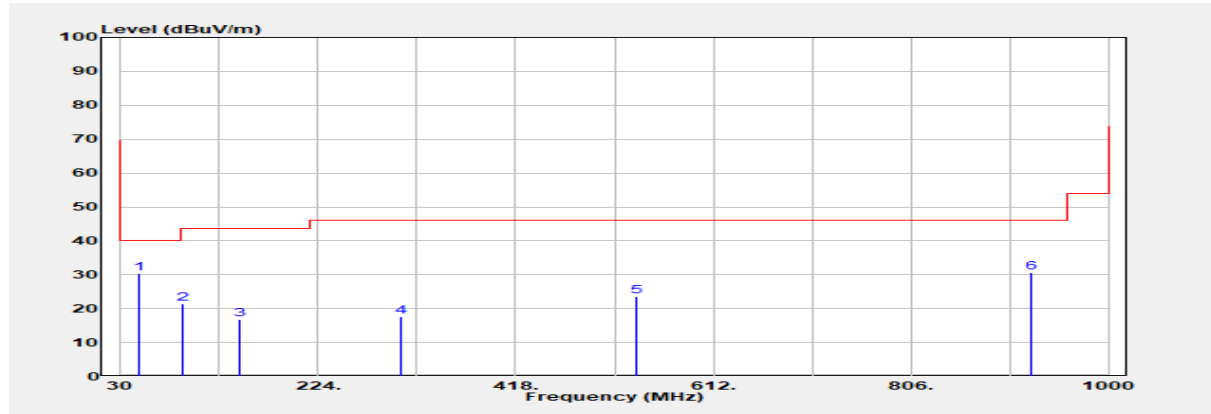
Temp./Humi. :22.9°C/51%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
47.460	Peak	47.24	-16.83	30.42	40.00	-9.58
90.140	Peak	44.04	-22.67	21.37	43.50	-22.13
147.370	Peak	32.79	-16.03	16.76	43.50	-26.74
305.480	Peak	33.34	-15.66	17.68	46.00	-28.32
537.310	Peak	34.20	-10.62	23.58	46.00	-22.42
924.340	Peak	34.88	-4.31	30.56	46.00	-15.44

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 2M

Test Date :2024-01-08

Test Frequency :2442 MHz

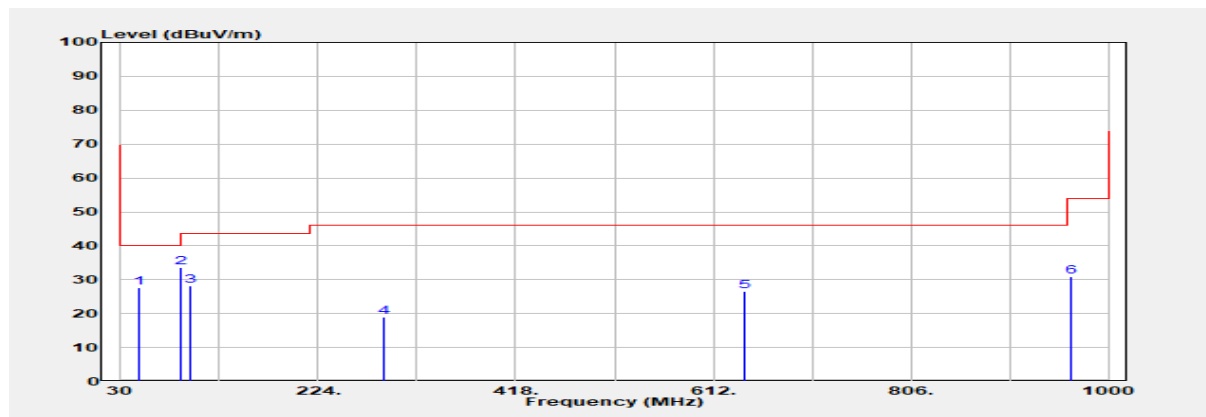
Temp./Humi. :22.9°C/51%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
47.460	Peak	44.37	-16.83	27.54	40.00	-12.46
89.170	Peak	56.43	-22.76	33.68	43.50	-9.82
98.870	Peak	50.31	-22.22	28.09	43.50	-15.41
288.020	Peak	34.81	-15.96	18.85	46.00	-27.15
642.070	Peak	34.82	-8.28	26.54	46.00	-19.46
964.110	Peak	35.11	-4.12	30.99	54.00	-23.01

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 2M

Test Date :2024-01-08

Test Frequency :2442 MHz

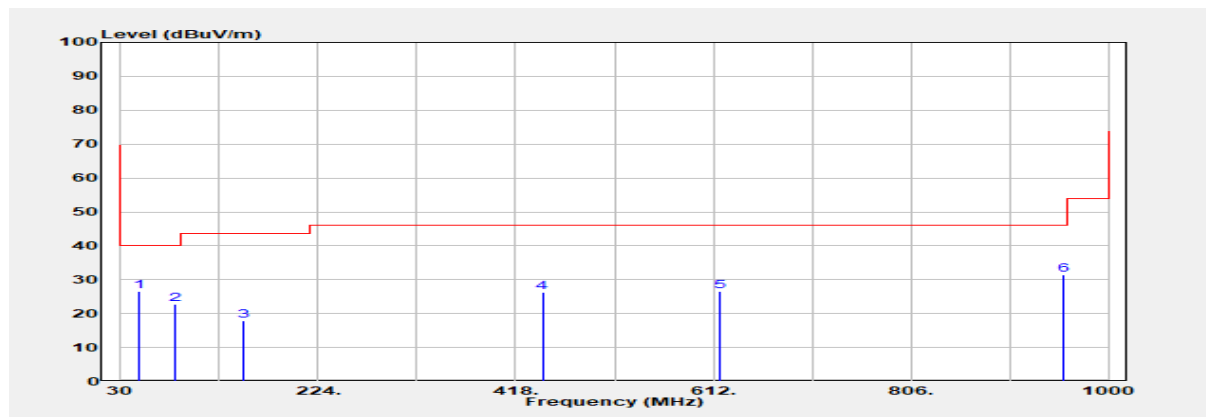
Temp./Humi. :22.9°C/51%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
47.460	Peak	43.51	-16.83	26.68	40.00	-13.32
83.350	Peak	45.16	-22.31	22.85	40.00	-17.15
151.250	Peak	33.77	-15.92	17.85	43.50	-25.65
444.190	Peak	38.33	-11.96	26.37	46.00	-19.63
617.820	Peak	34.70	-8.15	26.55	46.00	-19.45
955.380	Peak	35.41	-4.04	31.37	46.00	-14.63

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2024-01-08

Test Frequency :2402 MHz

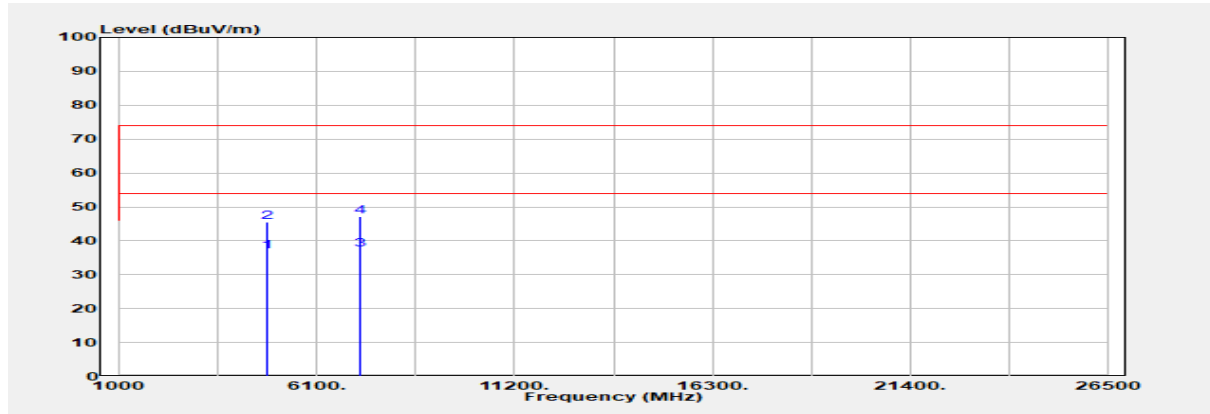
Temp./Humi. :22.9°C/51%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.000	Average	35.85	0.98	36.83	54.00	-17.17
4804.000	Peak	44.46	0.98	45.45	74.00	-28.55
7206.000	Average	29.22	8.13	37.35	54.00	-16.65
7206.000	Peak	39.00	8.13	47.13	74.00	-26.87

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2024-01-08

Test Frequency :2402 MHz

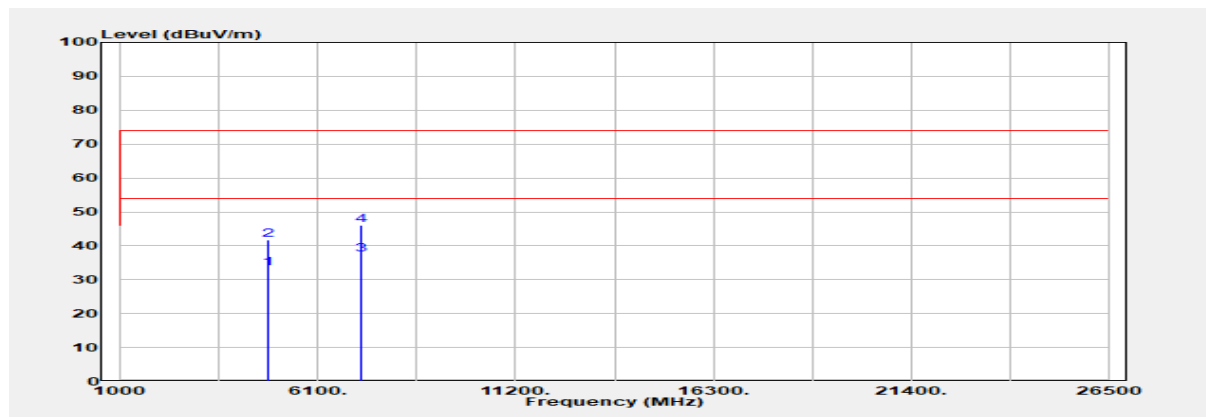
Temp./Humi. :22.9°C/51%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.000	Average	32.34	0.98	33.32	54.00	-20.68
4804.000	Peak	40.72	0.98	41.71	74.00	-32.29
7206.000	Average	29.20	8.13	37.33	54.00	-16.67
7206.000	Peak	38.02	8.13	46.14	74.00	-27.86

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2024-01-08

Test Frequency :2442 MHz

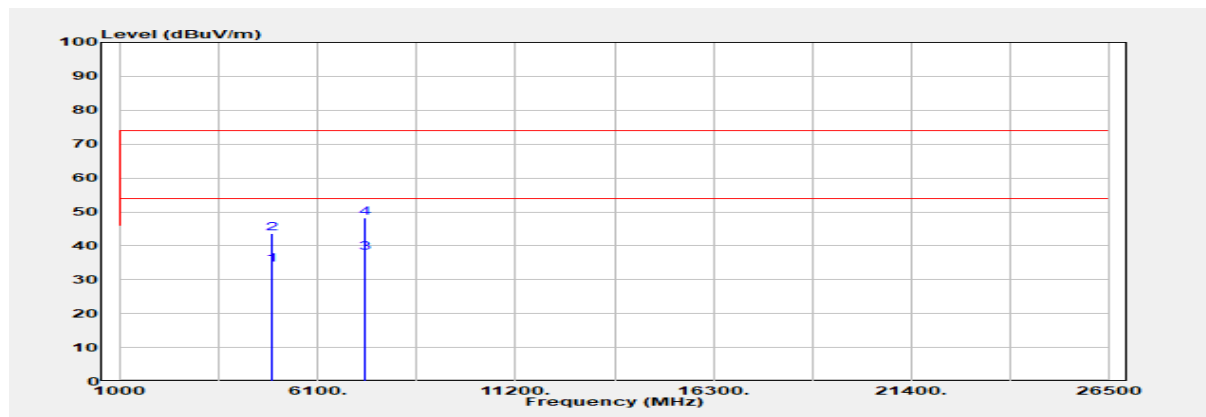
Temp./Humi. :22.9°C/51%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4884.000	Average	33.50	0.97	34.47	54.00	-19.53
4884.000	Peak	42.61	0.97	43.58	74.00	-30.42
7326.000	Average	28.84	9.03	37.87	54.00	-16.13
7326.000	Peak	39.32	9.03	48.35	74.00	-25.65

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2024-01-08

Test Frequency :2442 MHz

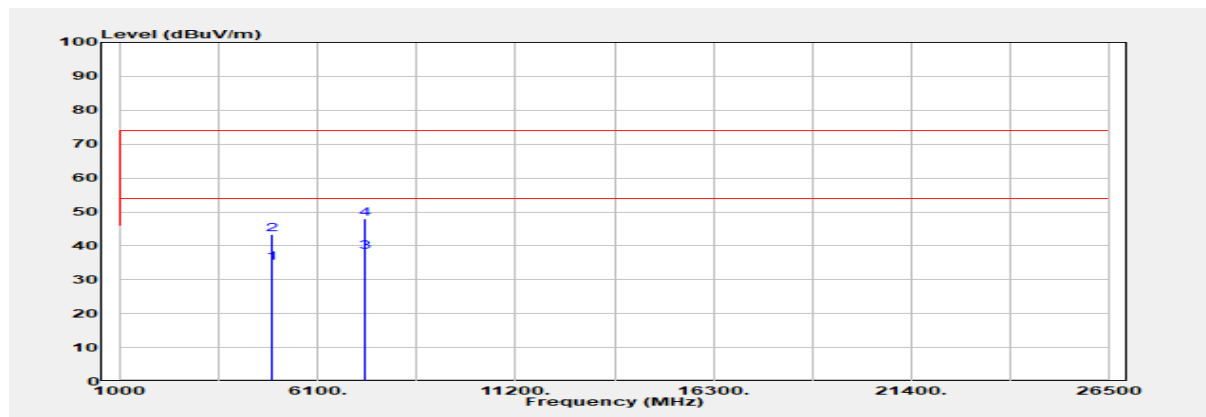
Temp./Humi. :22.9°C/51%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4884.000	Average	33.87	0.97	34.84	54.00	-19.16
4884.000	Peak	42.52	0.97	43.49	74.00	-30.51
7326.000	Average	29.23	9.03	38.26	54.00	-15.74
7326.000	Peak	38.82	9.03	47.85	74.00	-26.15

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2024-01-08

Test Frequency :2480 MHz

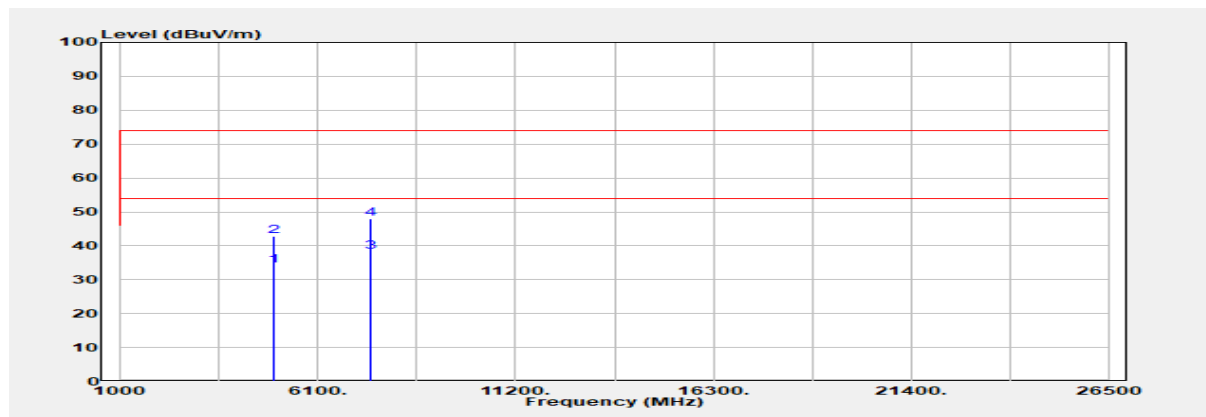
Temp./Humi. :22.9°C/51%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.000	Average	32.39	1.87	34.25	54.00	-19.75
4960.000	Peak	41.09	1.87	42.95	74.00	-31.05
7440.000	Average	28.15	9.98	38.13	54.00	-15.87
7440.000	Peak	37.92	9.98	47.90	74.00	-26.10

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2024-01-08

Test Frequency :2480 MHz

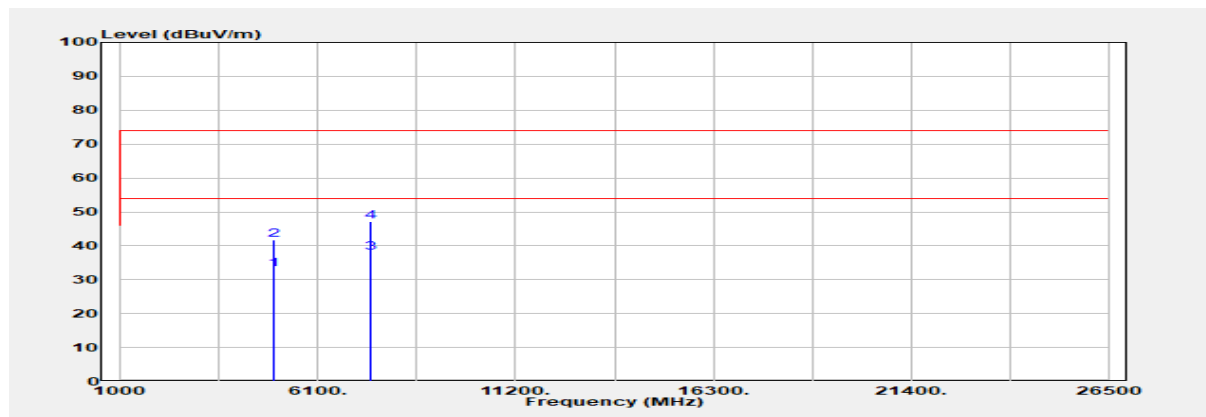
Temp./Humi. :22.9°C/51%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Average	31.15	1.87	33.02	54.00	-20.98
4960.000	Peak	39.79	1.87	41.66	74.00	-32.34
7440.000	Average	28.07	9.98	38.05	54.00	-15.95
7440.000	Peak	37.24	9.98	47.23	74.00	-26.77

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 2M

Test Date :2024-01-08

Test Frequency :2402 MHz

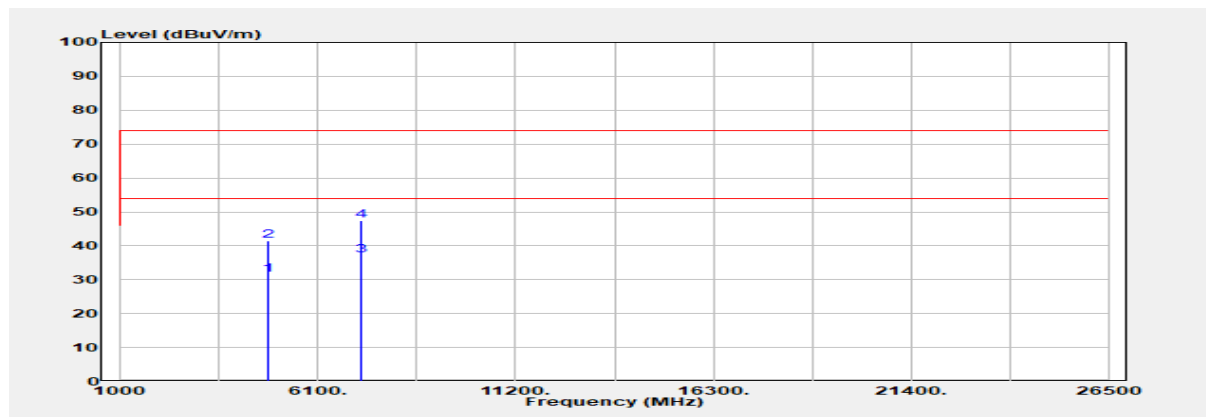
Temp./Humi. :22.9°C/51%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.000	Average	30.46	0.98	31.44	54.00	-22.56
4804.000	Peak	40.52	0.98	41.51	74.00	-32.49
7206.000	Average	29.08	8.13	37.21	54.00	-16.79
7206.000	Peak	39.40	8.13	47.52	74.00	-26.48

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 2M

Test Date :2024-01-08

Test Frequency :2402 MHz

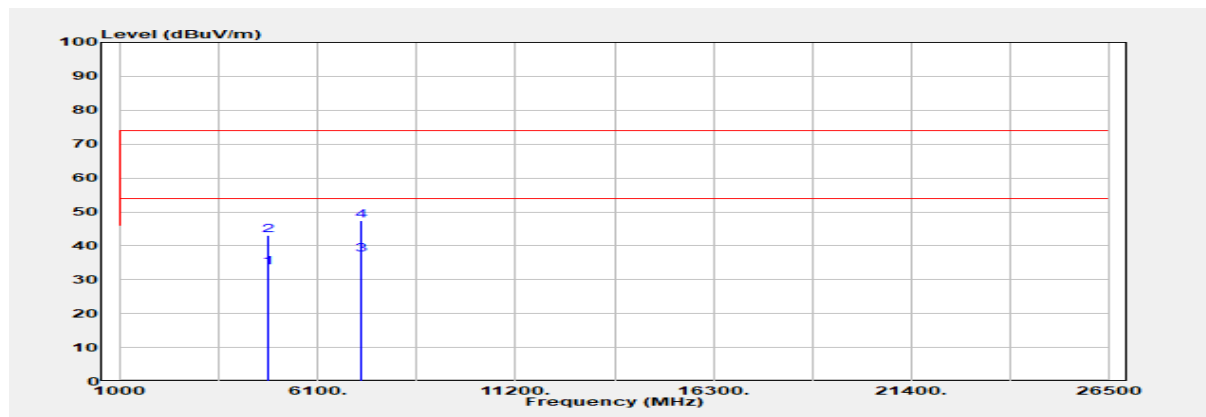
Temp./Humi. :22.9°C/51%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.000	Average	32.65	0.98	33.63	54.00	-20.37
4804.000	Peak	42.12	0.98	43.10	74.00	-30.90
7206.000	Average	29.28	8.13	37.41	54.00	-16.59
7206.000	Peak	39.30	8.13	47.43	74.00	-26.57

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 2M

Test Date :2024-01-08

Test Frequency :2442 MHz

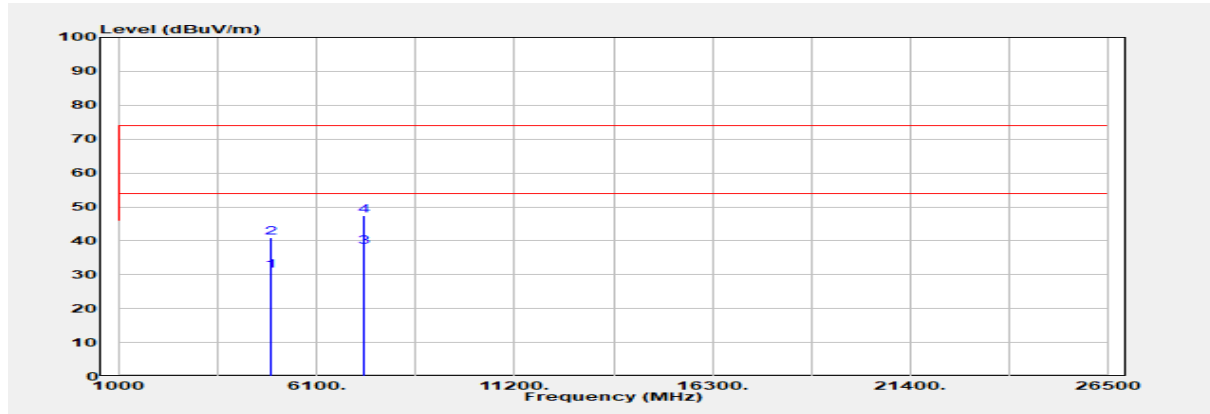
Temp./Humi. :22.9°C/51%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4884.000	Average	30.32	0.97	31.29	54.00	-22.71
4884.000	Peak	39.89	0.97	40.86	74.00	-33.14
7326.000	Average	29.18	9.03	38.21	54.00	-15.79
7326.000	Peak	38.52	9.03	47.55	74.00	-26.45

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 2M

Test Date :2024-01-08

Test Frequency :2442 MHz

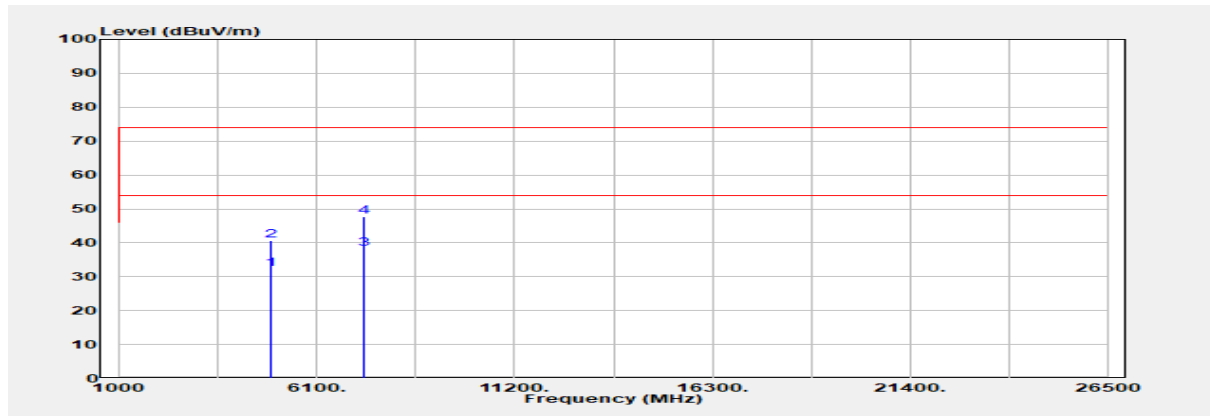
Temp./Humi. :22.9°C/51%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4884.000	Average	31.26	0.97	32.23	54.00	-21.77
4884.000	Peak	39.68	0.97	40.65	74.00	-33.35
7326.000	Average	29.07	9.03	38.10	54.00	-15.90
7326.000	Peak	38.57	9.03	47.60	74.00	-26.40

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 2M

Test Date :2024-01-08

Test Frequency :2480 MHz

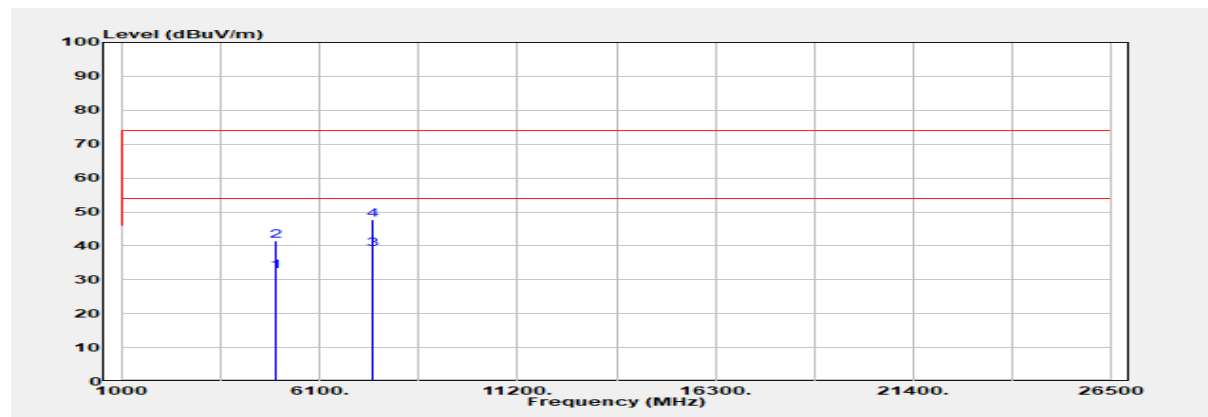
Temp./Humi. :22.9°C/51%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Average	30.52	1.87	32.39	54.00	-21.61
4960.000	Peak	39.73	1.87	41.59	74.00	-32.41
7440.000	Average	29.15	9.98	39.13	54.00	-14.87
7440.000	Peak	37.59	9.98	47.57	74.00	-26.43

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 2M

Test Date :2024-01-08

Test Frequency :2480 MHz

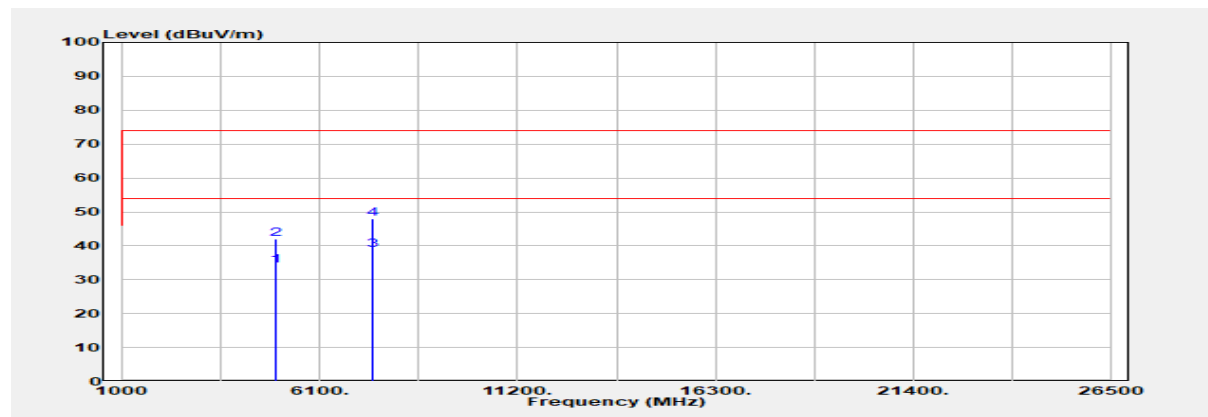
Temp./Humi. :22.9°C/51%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Average	32.17	1.87	34.04	54.00	-19.96
4960.000	Peak	40.19	1.87	42.05	74.00	-31.95
7440.000	Average	28.89	9.98	38.87	54.00	-15.13
7440.000	Peak	38.12	9.98	48.10	74.00	-25.90

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Port 2 (Dipole)

Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2024-01-30

Test Frequency :2442 MHz

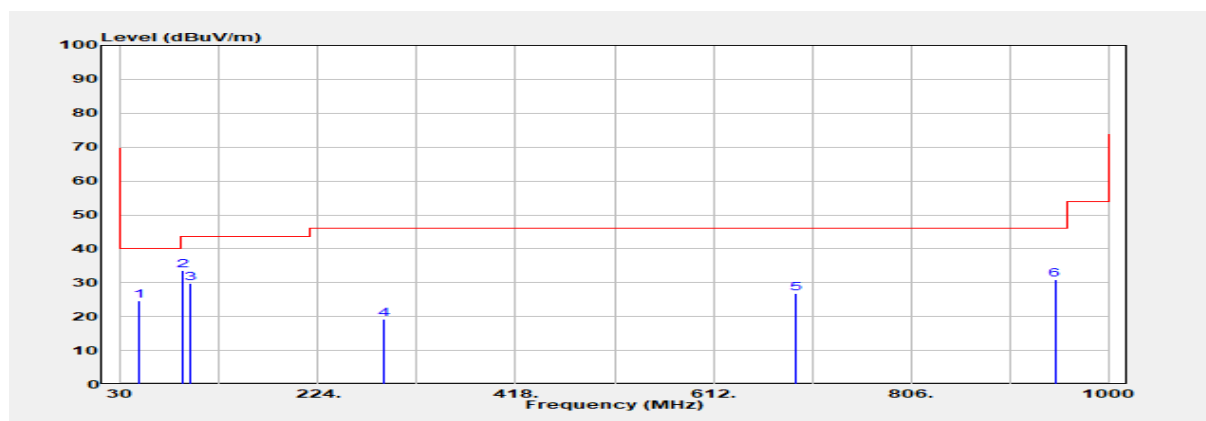
Temp./Humi. :24.3 °C/55%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
47.460	Peak	41.62	-16.83	24.79	40.00	-15.21
90.140	Peak	56.41	-22.67	33.74	43.50	-9.76
98.870	Peak	52.00	-22.22	29.78	43.50	-13.72
288.020	Peak	35.22	-15.96	19.26	46.00	-26.74
692.510	Peak	34.87	-8.02	26.85	46.00	-19.15
947.620	Peak	35.08	-4.12	30.96	46.00	-15.04

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Member of SGS Group

Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2024-01-30

Test Frequency :2442 MHz

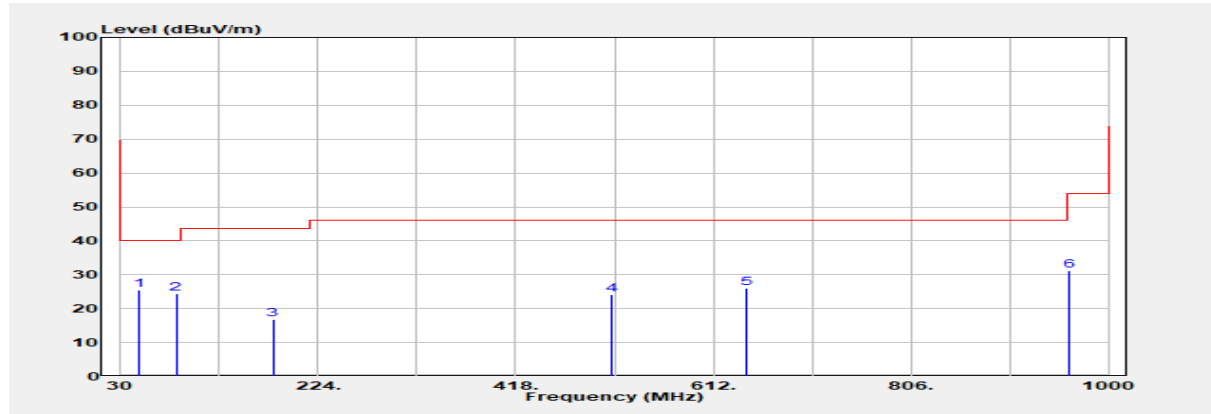
Temp./Humi. :24.3 °C/55%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
47.460	Peak	42.23	-16.83	25.40	40.00	-14.60
84.320	Peak	46.87	-22.47	24.40	40.00	-15.60
179.380	Peak	34.65	-17.94	16.71	43.50	-26.79
512.090	Peak	34.78	-10.62	24.16	46.00	-21.84
644.980	Peak	34.21	-8.28	25.93	46.00	-20.07
961.200	Peak	35.26	-3.99	31.27	54.00	-22.73

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 2M

Test Date :2024-01-30

Test Frequency :2442 MHz

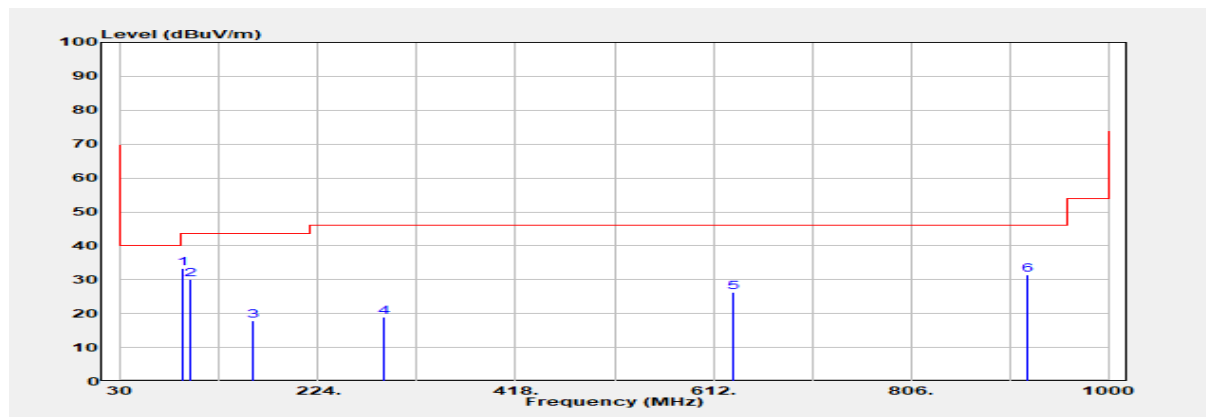
Temp./Humi. :24.3 °C/55%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
90.140	Peak	56.04	-22.67	33.37	43.50	-10.13
97.900	Peak	52.19	-22.18	30.02	43.50	-13.48
159.010	Peak	34.05	-16.29	17.76	43.50	-25.74
288.020	Peak	34.83	-15.96	18.87	46.00	-27.13
631.400	Peak	34.54	-8.34	26.19	46.00	-19.81
921.430	Peak	35.83	-4.37	31.46	46.00	-14.54

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 2M

Test Date :2024-01-30

Test Frequency :2442 MHz

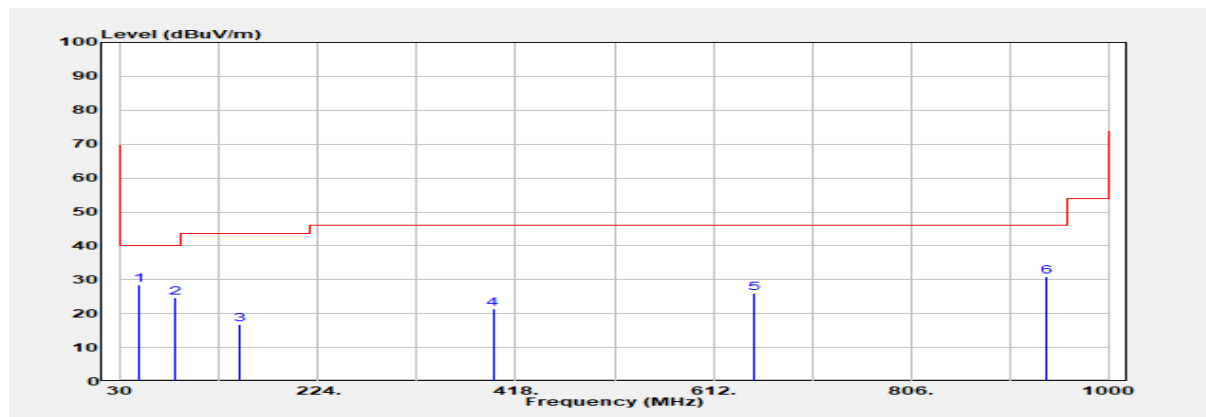
Temp./Humi. :24.3 °C/55%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
47.460	Peak	45.39	-16.83	28.57	40.00	-11.43
83.350	Peak	47.02	-22.31	24.72	40.00	-15.28
146.400	Peak	33.08	-16.18	16.90	43.50	-26.60
395.690	Peak	34.72	-13.39	21.33	46.00	-24.67
652.740	Peak	34.47	-8.37	26.10	46.00	-19.90
938.890	Peak	34.86	-3.96	30.90	46.00	-15.10

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2024-01-30

Test Frequency :2402 MHz

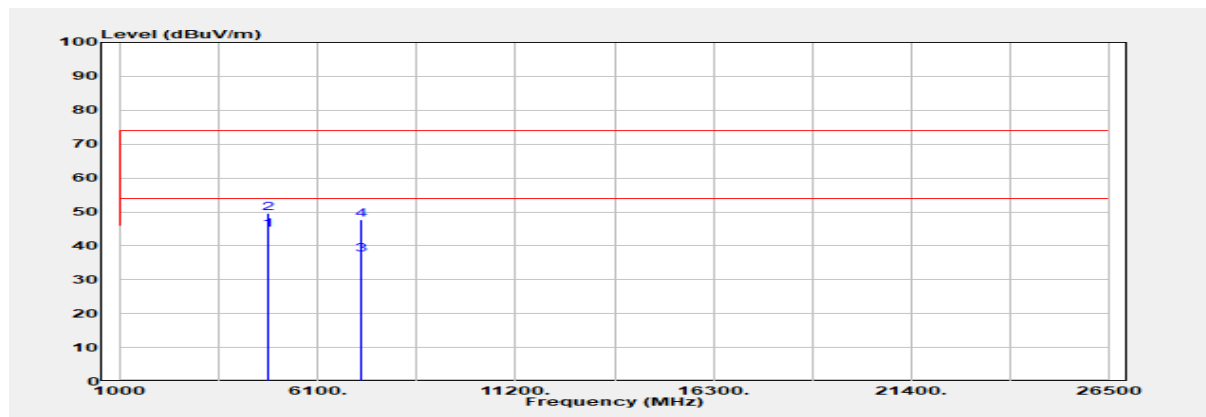
Temp./Humi. :24.3 °C/55%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.000	Average	43.72	0.98	44.70	54.00	-9.30
4804.000	Peak	48.55	0.98	49.53	74.00	-24.47
7206.000	Average	29.32	8.13	37.45	54.00	-16.55
7206.000	Peak	39.48	8.13	47.61	74.00	-26.39

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2024-01-30

Test Frequency :2402 MHz

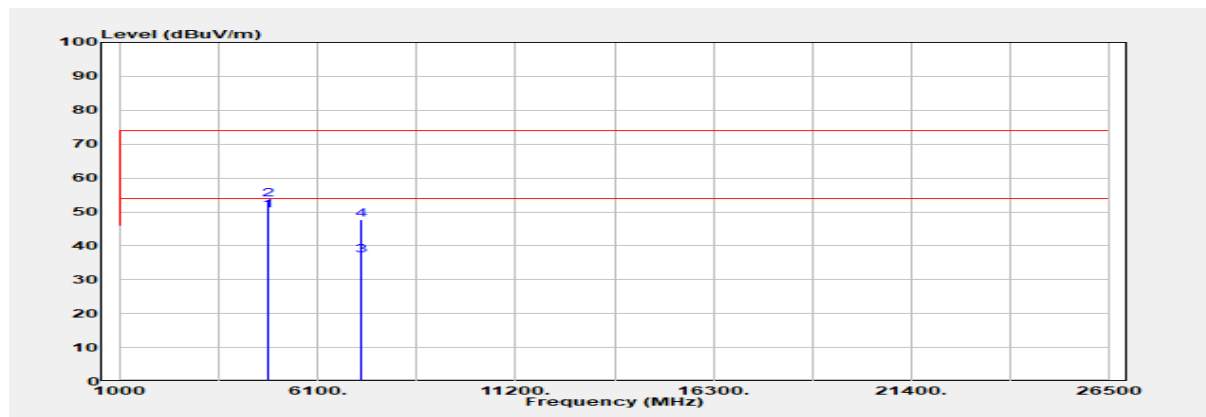
Temp./Humi. :24.3 °C/55%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.000	Average	49.36	0.98	50.35	54.00	-3.65
4804.000	Peak	52.71	0.98	53.70	74.00	-20.30
7206.000	Average	28.97	8.13	37.10	54.00	-16.90
7206.000	Peak	39.48	8.13	47.61	74.00	-26.39

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2024-01-30

Test Frequency :2442 MHz

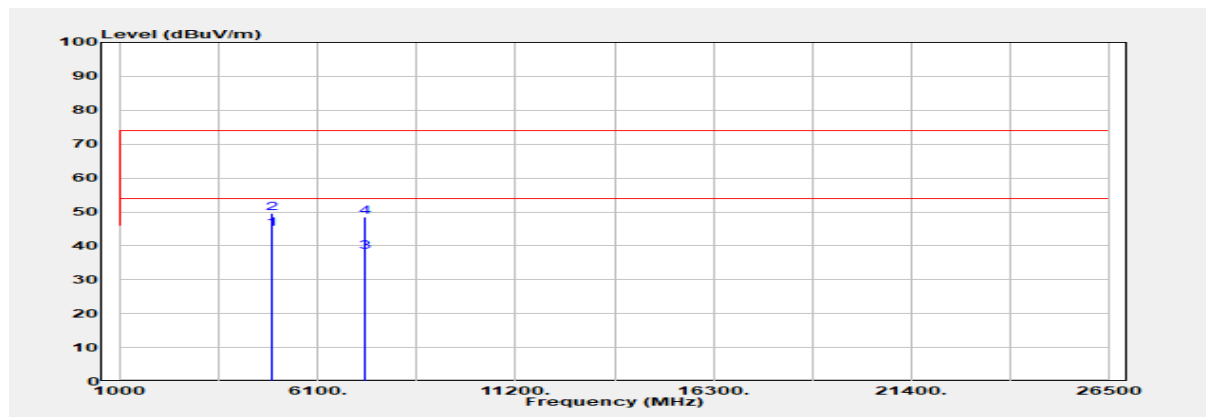
Temp./Humi. :24.3 °C/55%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4884.000	Average	44.14	0.97	45.11	54.00	-8.89
4884.000	Peak	48.61	0.97	49.58	74.00	-24.42
7326.000	Average	29.07	9.03	38.10	54.00	-15.90
7326.000	Peak	39.58	9.03	48.61	74.00	-25.39

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2024-01-30

Test Frequency :2442 MHz

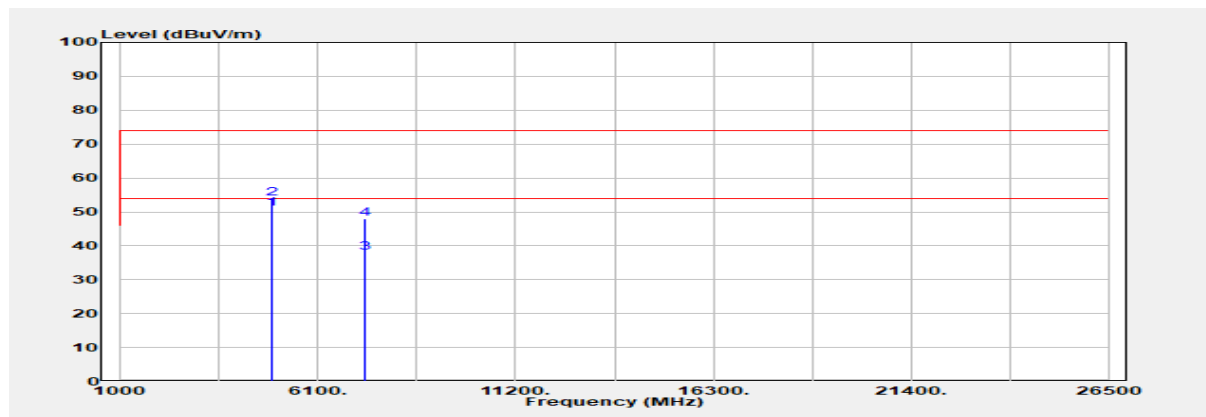
Temp./Humi. :24.3 °C/55%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4884.000	Average	49.96	0.97	50.93	54.00	-3.07
4884.000	Peak	53.09	0.97	54.06	74.00	-19.94
7326.000	Average	28.88	9.03	37.91	54.00	-16.09
7326.000	Peak	38.82	9.03	47.84	74.00	-26.16

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2024-01-30

Test Frequency :2480 MHz

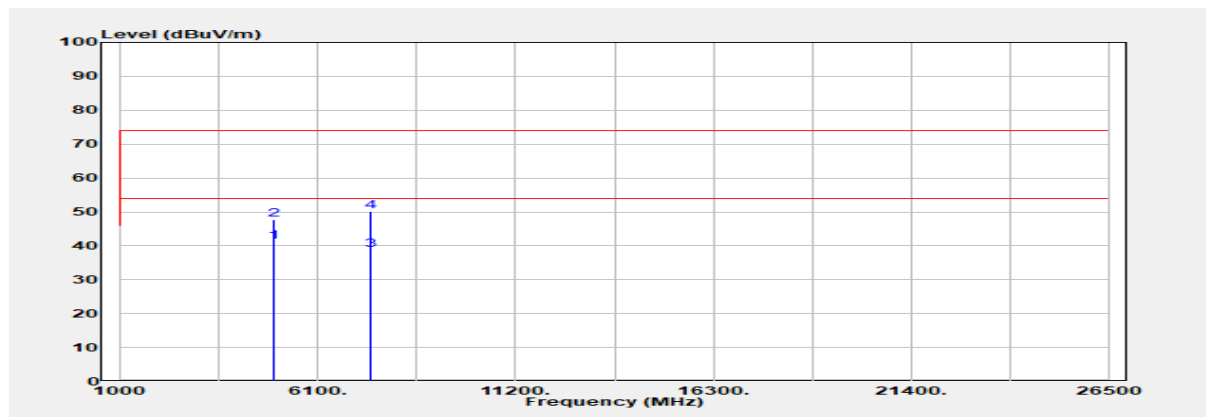
Temp./Humi. :24.3 °C/55%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Average	39.35	1.87	41.22	54.00	-12.78
4960.000	Peak	45.75	1.87	47.62	74.00	-26.38
7440.000	Average	28.87	9.98	38.86	54.00	-15.14
7440.000	Peak	40.20	9.98	50.18	74.00	-23.82

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2024-01-30

Test Frequency :2480 MHz

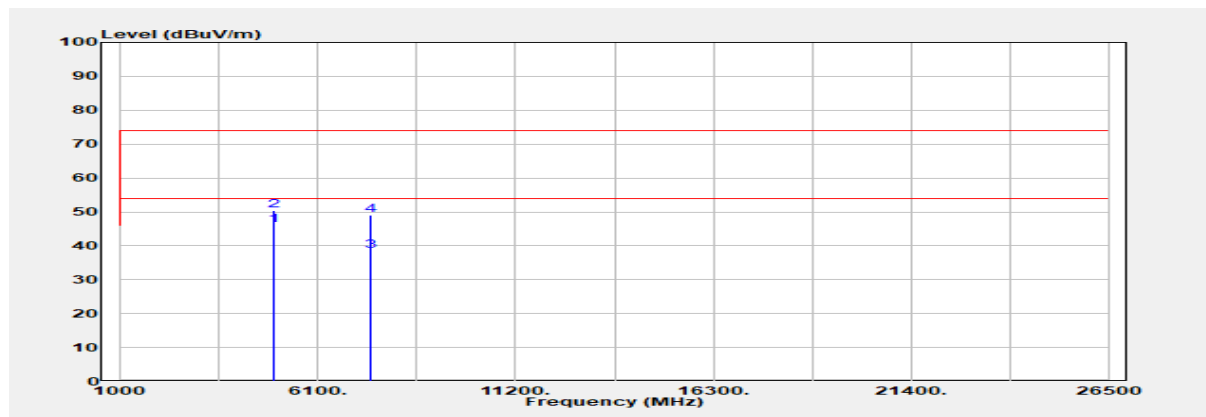
Temp./Humi. :24.3 °C/55%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.000	Average	44.33	1.87	46.19	54.00	-7.81
4960.000	Peak	48.59	1.87	50.46	74.00	-23.54
7440.000	Average	28.46	9.98	38.44	54.00	-15.56
7440.000	Peak	39.13	9.98	49.11	74.00	-24.89

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 2M

Test Date :2024-01-30

Test Frequency :2402 MHz

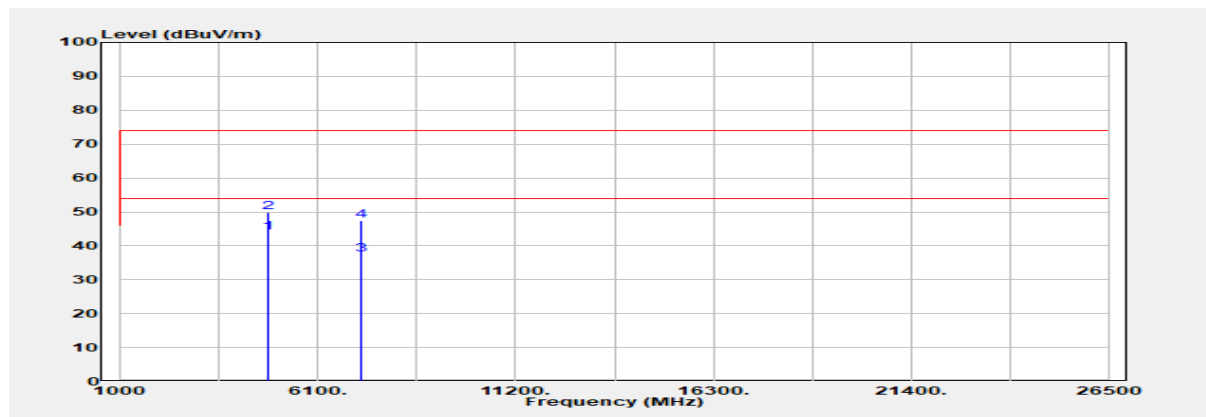
Temp./Humi. :24.3 °C/55%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.000	Average	42.93	0.98	43.91	54.00	-10.09
4804.000	Peak	48.82	0.98	49.80	74.00	-24.20
7206.000	Average	29.27	8.13	37.40	54.00	-16.60
7206.000	Peak	39.42	8.13	47.55	74.00	-26.45

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Report Number :TERF2312003241E2

Operation Mode :BLE 2M

Test Frequency :2402 MHz

Test Mode :Tx

EUT Pol :E2 Plane

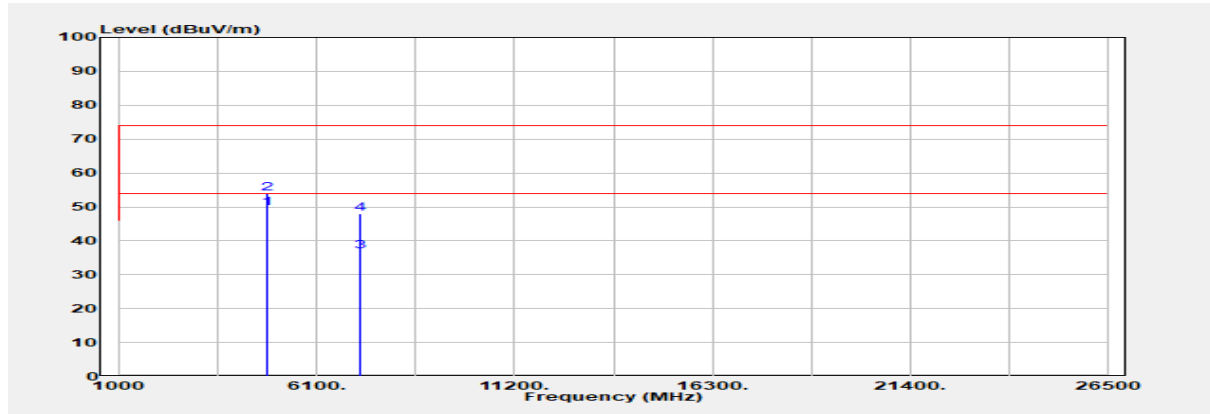
Test Site :SAC D

Test Date :2024-01-30

Temp./Humi. :24.3 °C/55%

Antenna Pol. :Horizontal

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.000	Average	48.52	0.98	49.50	54.00	-4.50
4804.000	Peak	53.07	0.98	54.05	74.00	-19.95
7206.000	Average	28.84	8.13	36.97	54.00	-17.03
7206.000	Peak	39.75	8.13	47.88	74.00	-26.12

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 2M

Test Date :2024-01-30

Test Frequency :2442 MHz

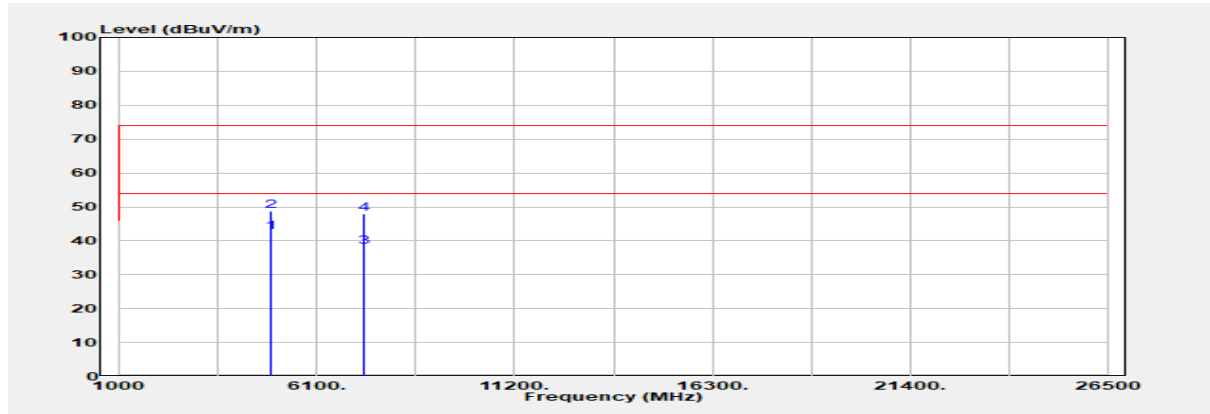
Temp./Humi. :24.3 °C/55%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4884.000	Average	41.46	0.97	42.43	54.00	-11.57
4884.000	Peak	47.75	0.97	48.72	74.00	-25.28
7326.000	Average	29.05	9.03	38.08	54.00	-15.92
7326.000	Peak	39.02	9.03	48.05	74.00	-25.95

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 2M

Test Date :2024-01-30

Test Frequency :2442 MHz

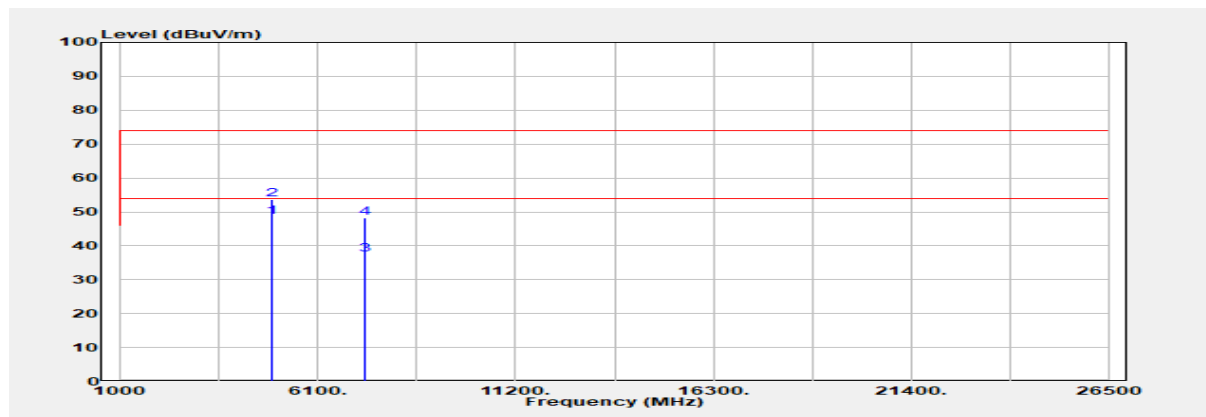
Temp./Humi. :24.3 °C/55%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4884.000	Average	47.44	0.97	48.41	54.00	-5.59
4884.000	Peak	52.63	0.97	53.60	74.00	-20.40
7326.000	Average	28.45	9.03	37.47	54.00	-16.53
7326.000	Peak	39.11	9.03	48.14	74.00	-25.86

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 2M

Test Date :2024-01-30

Test Frequency :2480 MHz

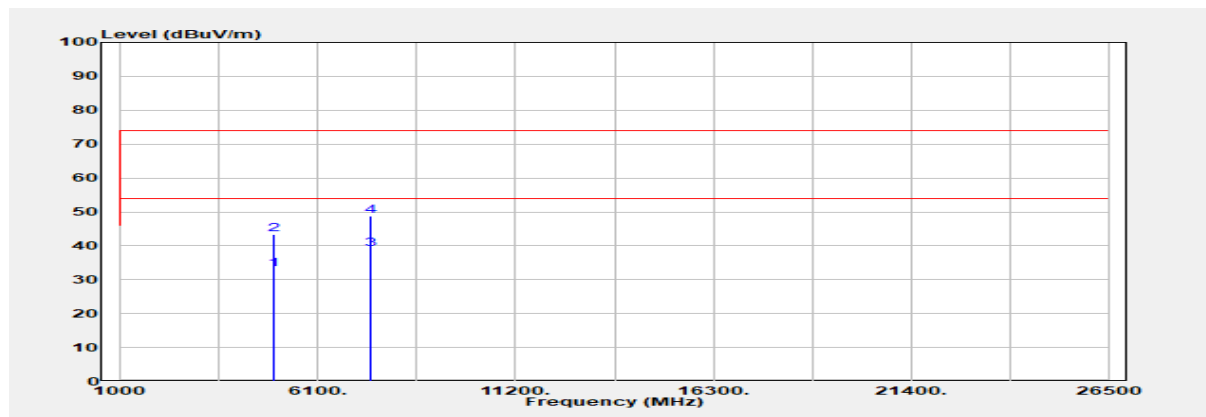
Temp./Humi. :24.3 °C/55%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Average	31.25	1.87	33.12	54.00	-20.88
4960.000	Peak	41.57	1.87	43.44	74.00	-30.56
7440.000	Average	28.97	9.98	38.95	54.00	-15.05
7440.000	Peak	38.79	9.98	48.78	74.00	-25.22

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Report Number :TERF2312003241E2

Test Site :SAC D

Operation Mode :BLE 2M

Test Date :2024-01-30

Test Frequency :2480 MHz

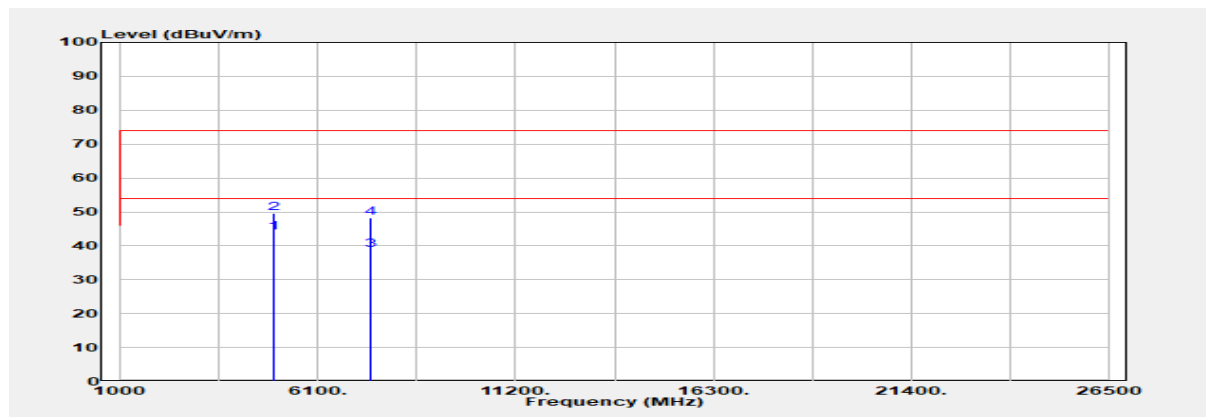
Temp./Humi. :24.3 °C/55%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.000	Average	41.99	1.87	43.86	54.00	-10.14
4960.000	Peak	47.85	1.87	49.71	74.00	-24.29
7440.000	Average	28.89	9.98	38.87	54.00	-15.13
7440.000	Peak	38.26	9.98	48.25	74.00	-25.75

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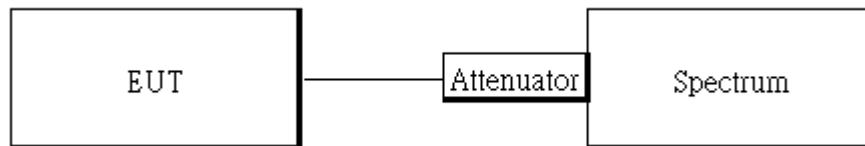
12 POWER SPECTRAL DENSITY

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. & the 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.

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12.4 Measurement Result:**Port 1****BLE 1M mode**

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2402	-2.070	8	PASS
2442	-2.350	8	PASS
2480	-2.830	8	PASS

Note:**1.cable loss as 10.8dB that offsets in the spectrum*****BLE 2M mode**

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2402	-4.680	8	PASS
2442	-4.940	8	PASS
2480	-5.490	8	PASS

Note:**1.cable loss as 10.8dB that offsets in the spectrum***

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Port 2

BLE 1M mode

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2402	-5.580	8	PASS
2442	-1.530	8	PASS
2480	-1.960	8	PASS

***Note:**

1.cable loss as 10.8dB that offsets in the spectrum

BLE 2M mode

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2402	-6.340	8	PASS
2442	-4.220	8	PASS
2480	-4.660	8	PASS

***Note:**

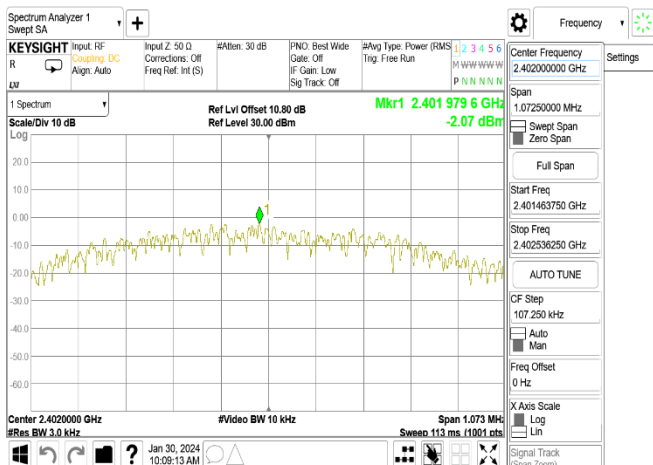
1.cable loss as 10.8dB that offsets in the spectrum

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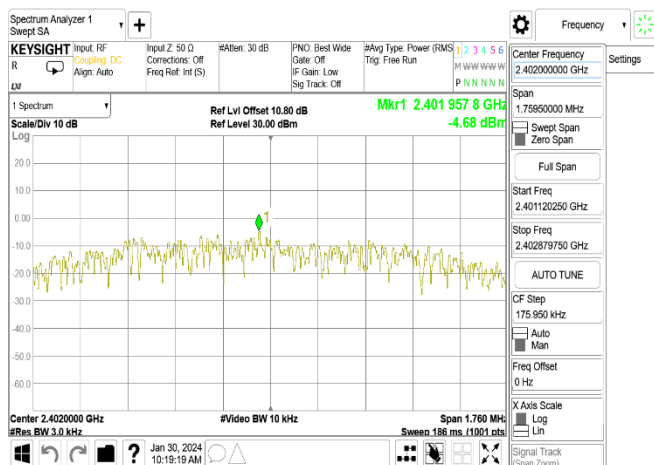
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Port 1

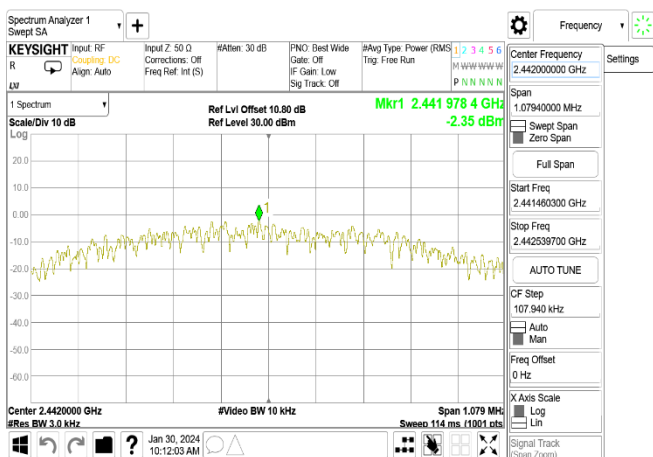
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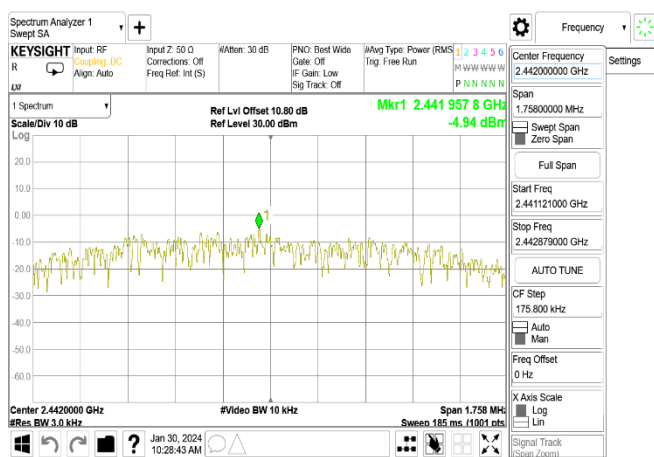
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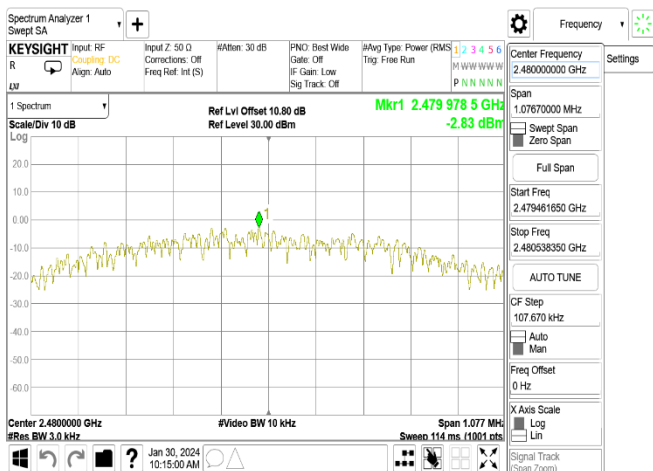
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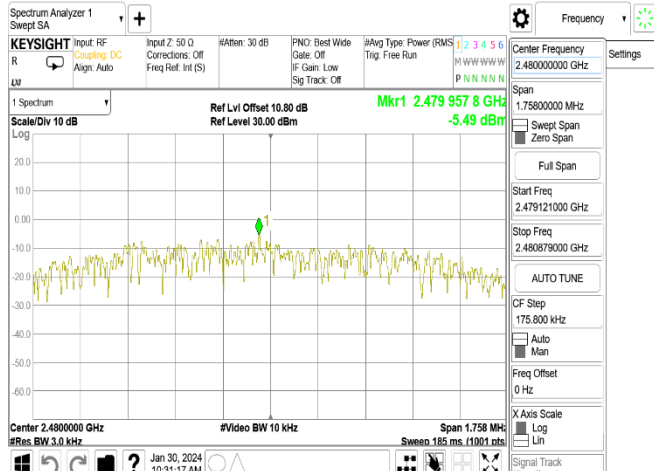
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PSD_BLE 1M_HighCH39-2480MHz



PSD_BLE 2M_HighCH39-2480MHz



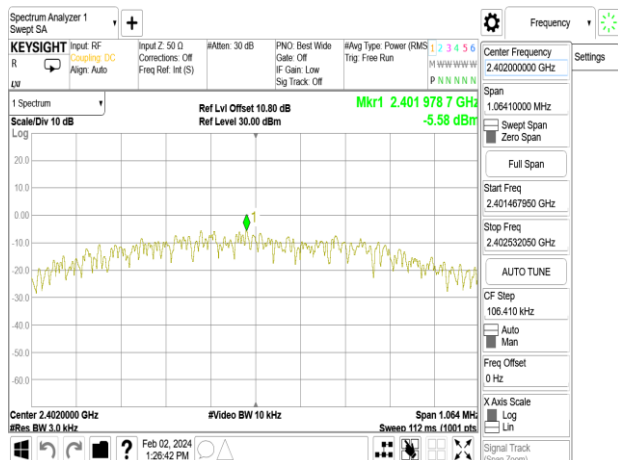
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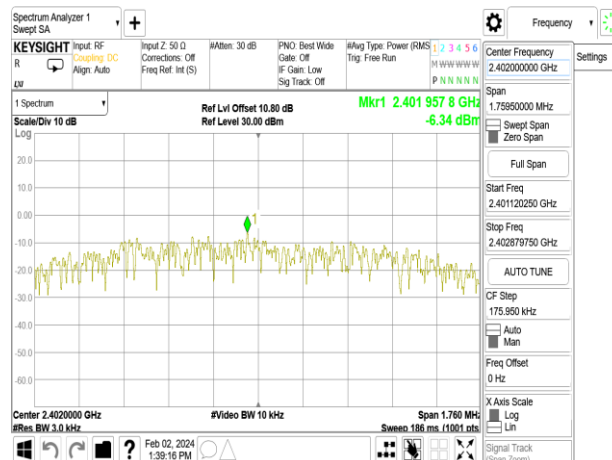
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Port 2

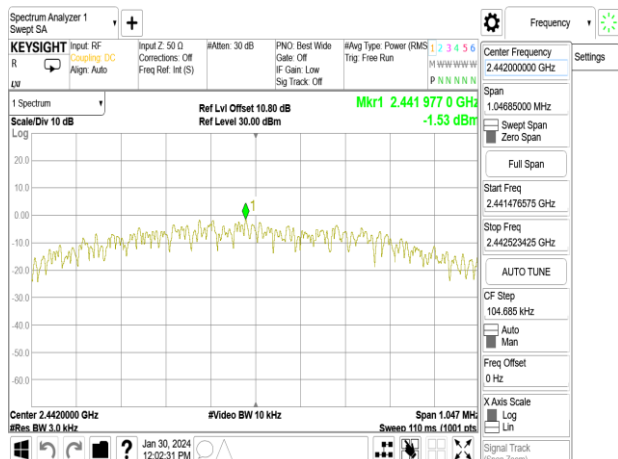
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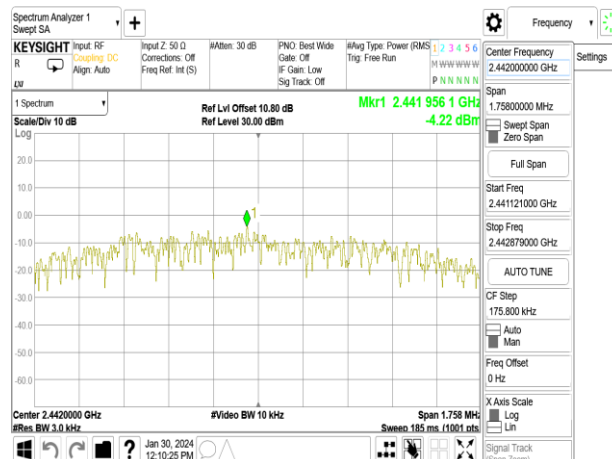
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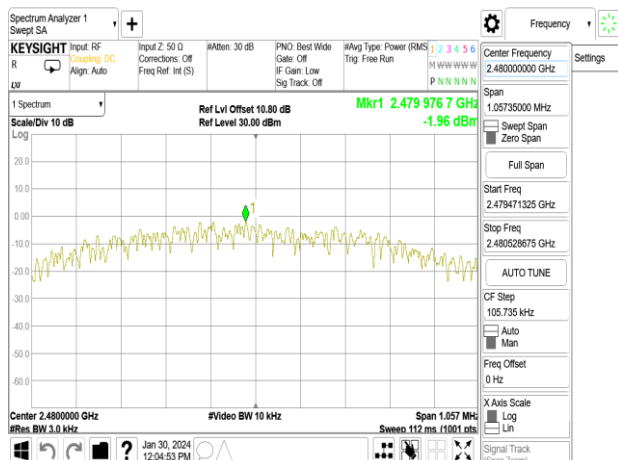
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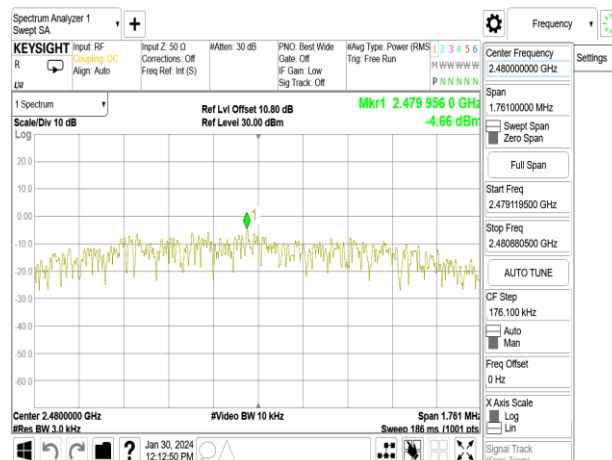
PSD_BLE 2M_MidCH20-2442MHz



PSD_BLE 1M_HighCH39-2480MHz



PSD_BLE 2M_HighCH39-2480MHz



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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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