

14 SPURIOUS RADIATED EMISSION TEST

14.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands must also comply with the §15.209 limit as below.

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

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

Note:

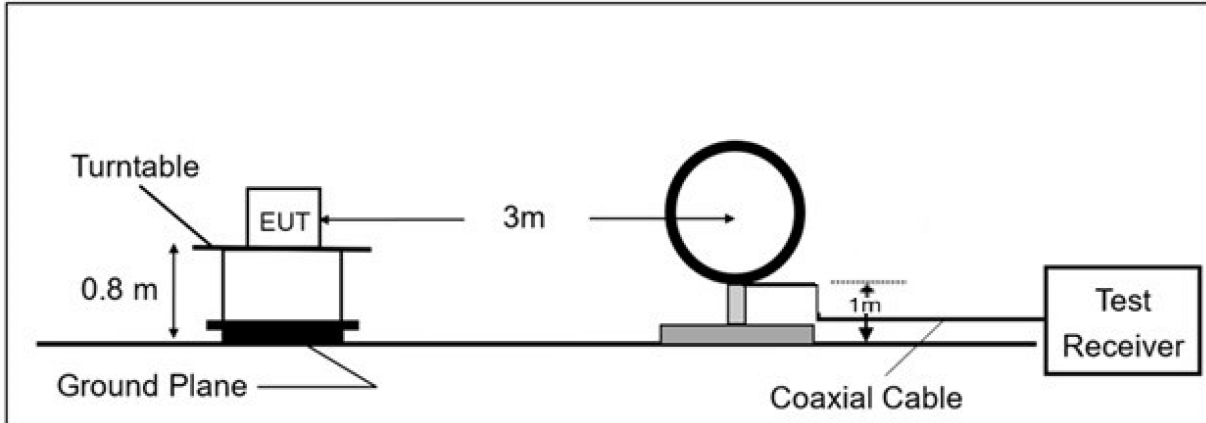
1. The lower limit shall apply at the transition frequencies.

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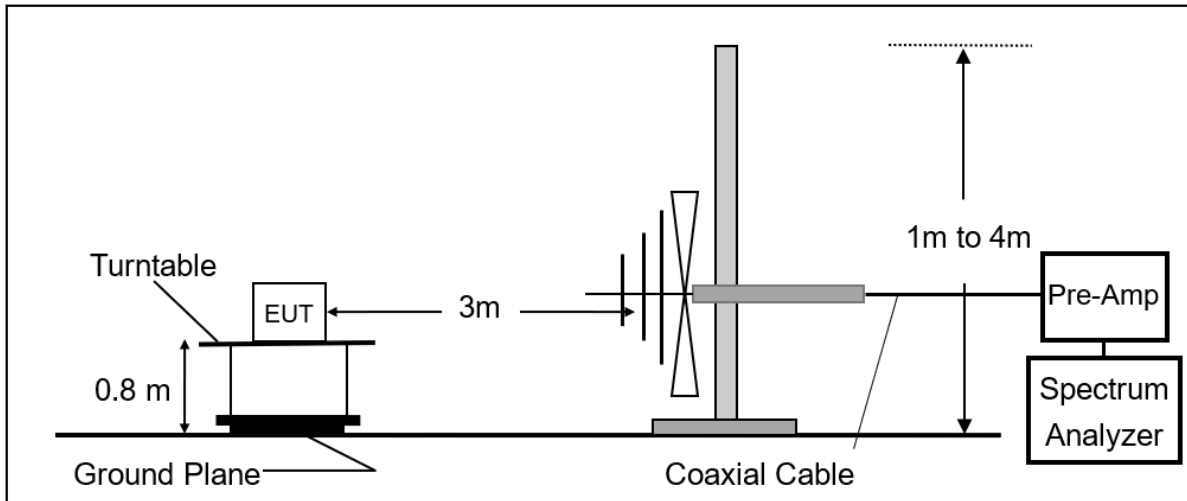
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14.2 Test Setup

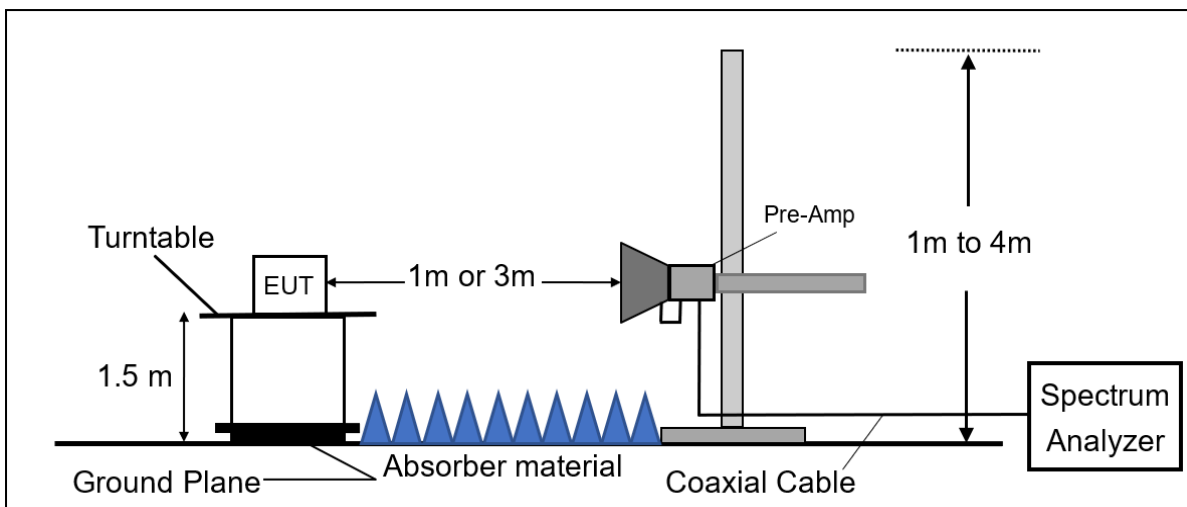
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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14.3 Measurement Procedure

1. The testing follows the Measurement Procedure of ANSI C63.10:2013.
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. According to C63.10:2013 Section 7.5 Procedure for determining the average value of pulsed emissions with duty cycle correction factor $20 \log(T_{on}/100ms)$.
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.

14.4 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)

14.5 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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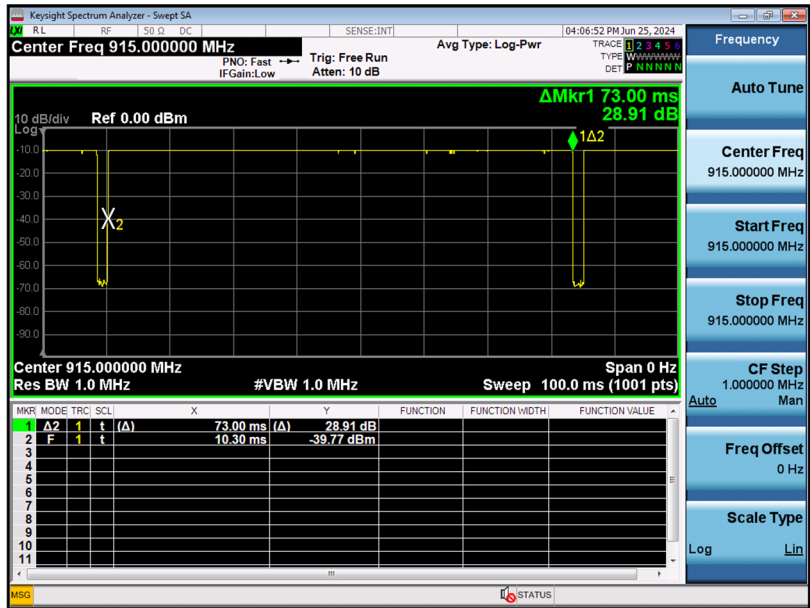
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14.6 AVG Duty Cycle Factor calculation

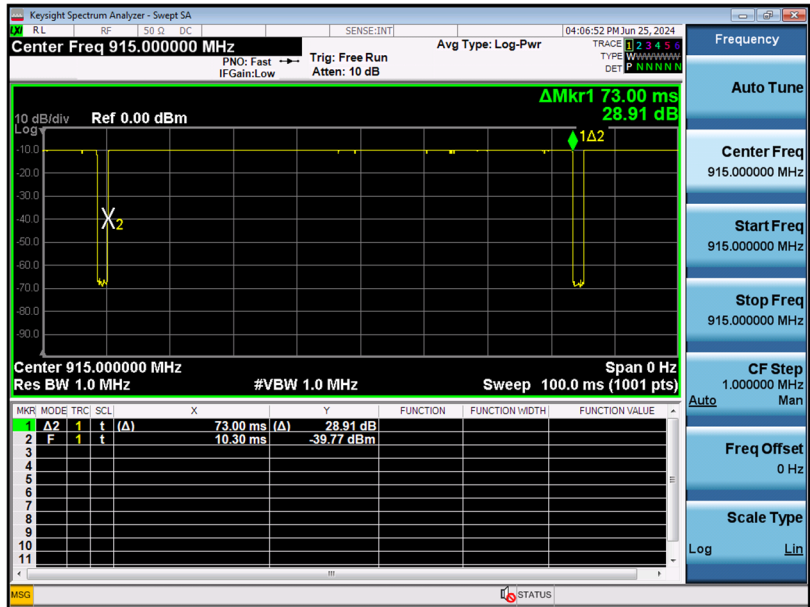
Bluetooth 1M

Time ON of 100ms: 73.000 ms
 Duty Cycle=73ms / 100ms= 0.73
 Duty Cycle correction factor=20 LOG 0.73 = -2.73 dB

Internal antenna



External antenna



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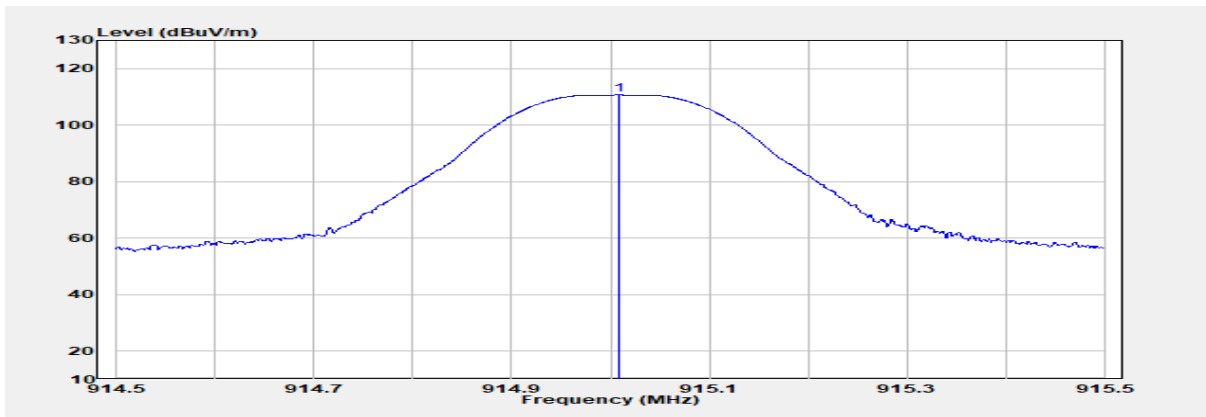
14.7 Measurement Result:

14.7.1 Main Result

Internal antenna

Report Number :TERF2406001611E2
 Operation Mode : FSK 50Kbps
 Test Frequency :915 MHz
 Test Mode :Main
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2024-07-04
 Temp./Humi. :22.4°C/54%
 Antenna Pol. :Vertical
 Engineer :Sam Huang



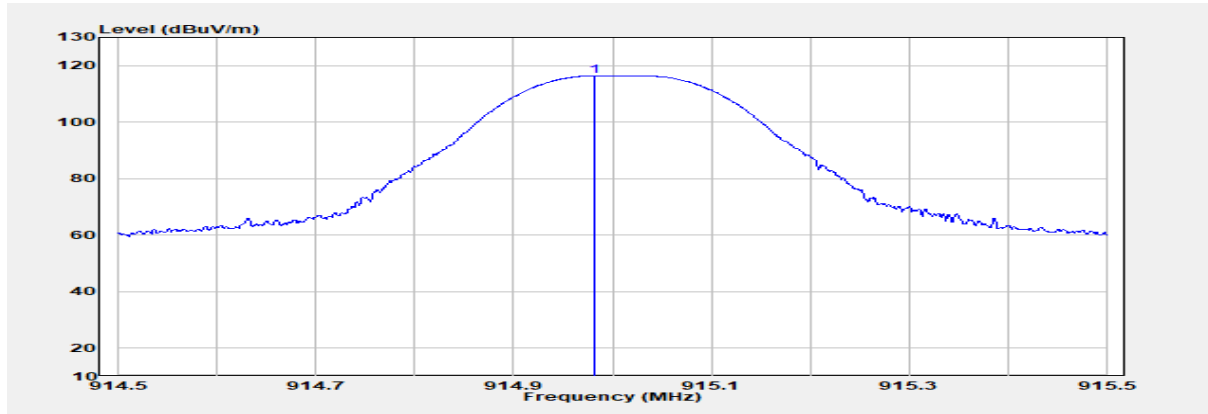
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
915.008	Peak	115.99	-5.32	110.68	-	-

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Report Number :TERF2406001611E2
 Operation Mode : FSK 50Kbps
 Test Frequency :915 MHz
 Test Mode :Main
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2024-07-04
 Temp./Humi. :22.4°C/54%
 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
914.981	Peak	121.67	-5.32	116.35	-	-

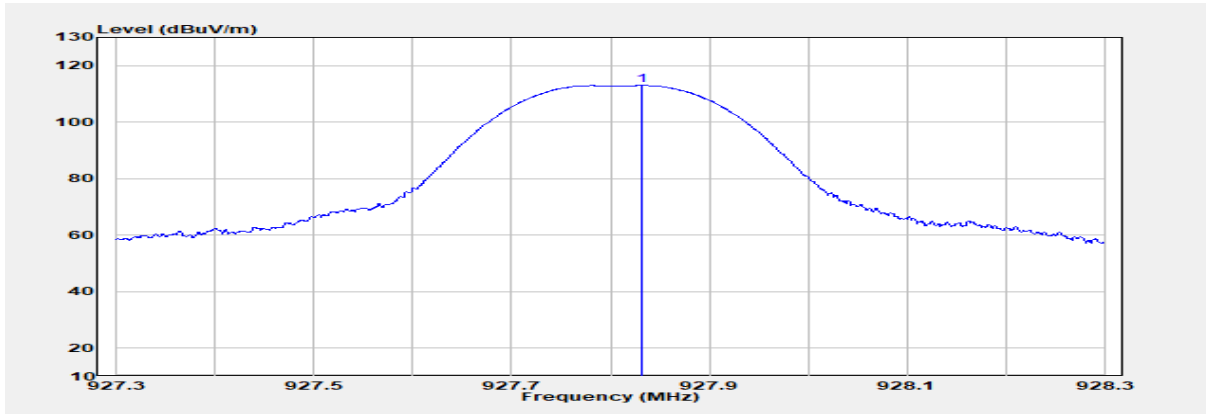
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External antenna

Report Number :TERF2406001611E2
 Operation Mode : FSK 50Kbps
 Test Frequency :927.8 MHz
 Test Mode :Main
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2024-07-04
 Temp./Humi. :22.4°C/54%
 Antenna Pol. :Vertical
 Engineer :Sam Huang



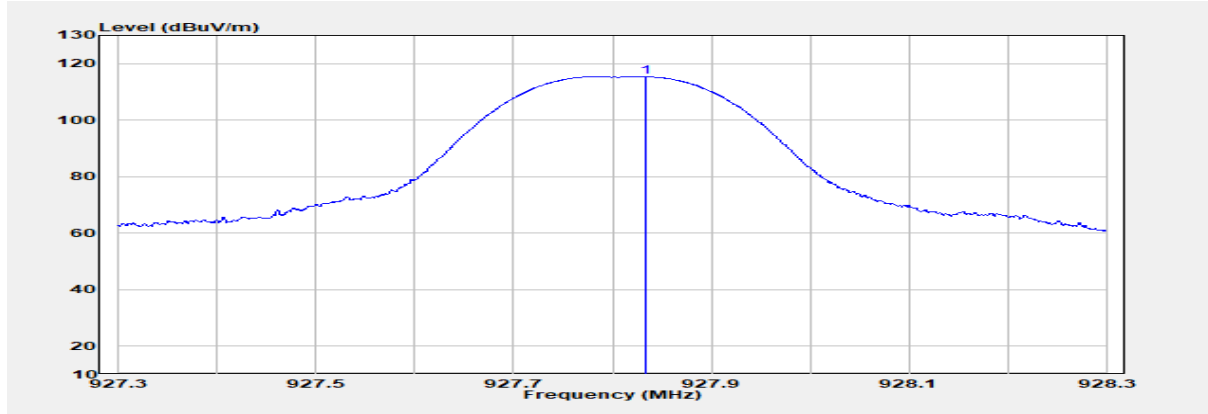
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
927.832	Peak	117.82	-4.86	112.97	-	-

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Report Number :TERF2406001611E2
 Operation Mode FSK 50Kbps
 Test Frequency :927.8 MHz
 Test Mode :Main
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2024-07-04
 Temp./Humi. :22.4°C/54%
 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
927.833	Peak	120.19	-4.86	115.33	-	-

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14.7.2 Bandedge Result

Internal antenna

Report Number :TERF2406001611E2

Test Site :SAC D

Operation Mode :FSK 50Kbps

Test Date :2024-07-04

Test Frequency :902.2 MHz

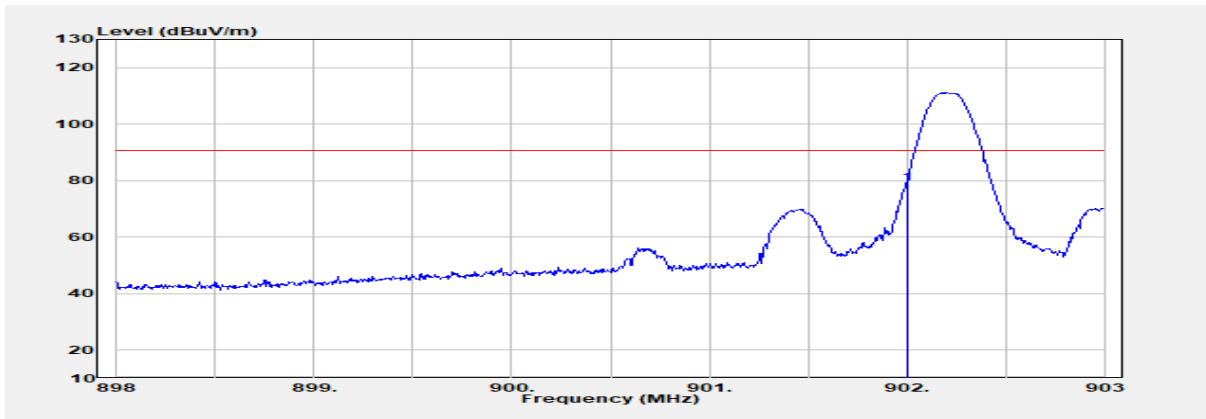
Temp./Humi. :22.4°C/54%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H 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
902.000	Peak	84.90	-5.82	79.08	90.68	-11.60

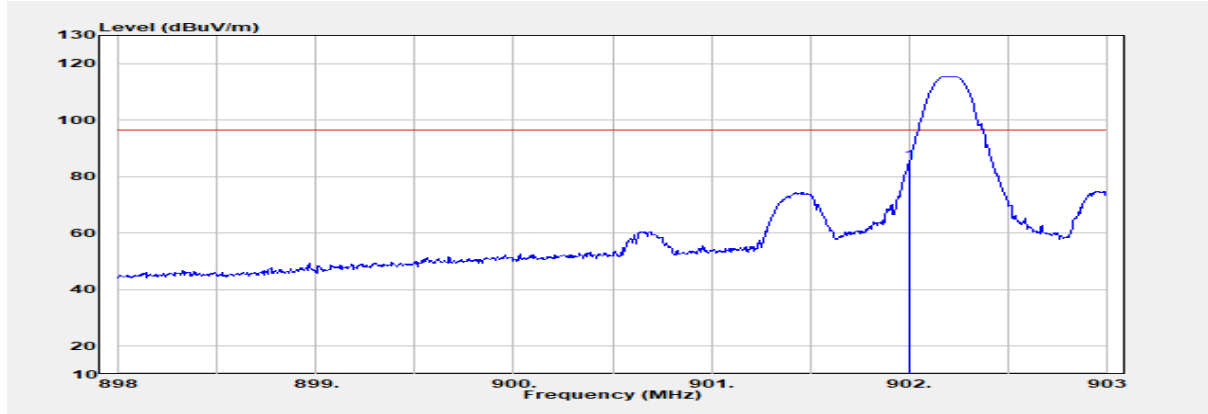
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Report Number :TERF2406001611E2
 Operation Mode :FSK 50Kbps
 Test Frequency :902.2 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2024-07-04
 Temp./Humi. :22.4°C/54%
 Antenna Pol. :Horizontal
 Engineer :Sam Huang



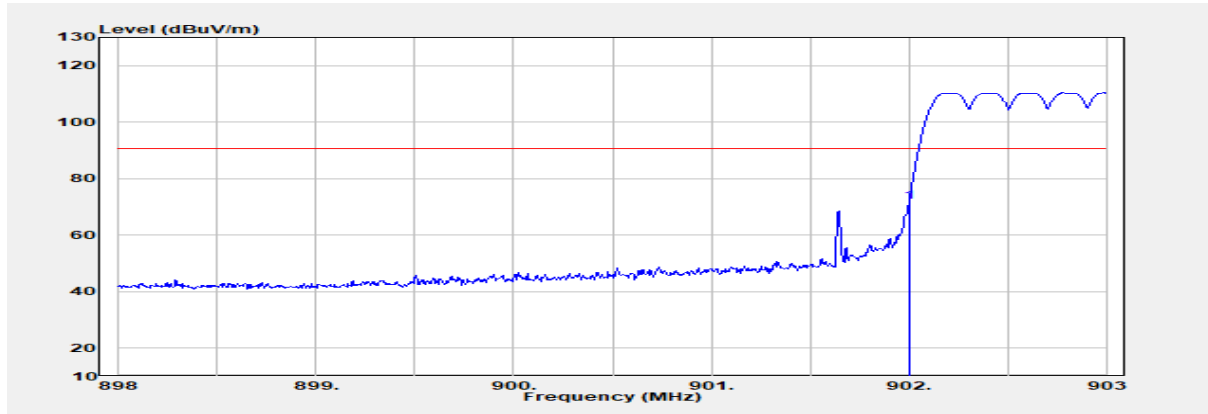
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
902.000	Peak	91.14	-5.82	85.32	96.35	-11.03

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Report Number :TERF2406001611E2
 Operation Mode :FSK 50Kbps
 Test Frequency :902.2 MHz
 Test Mode :Bandedge Hopping
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2024-07-04
 Temp./Humi. :22.4°C/54%
 Antenna Pol. :Vertical
 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
902.000	Peak	77.49	-5.82	71.67	90.68	-19.01

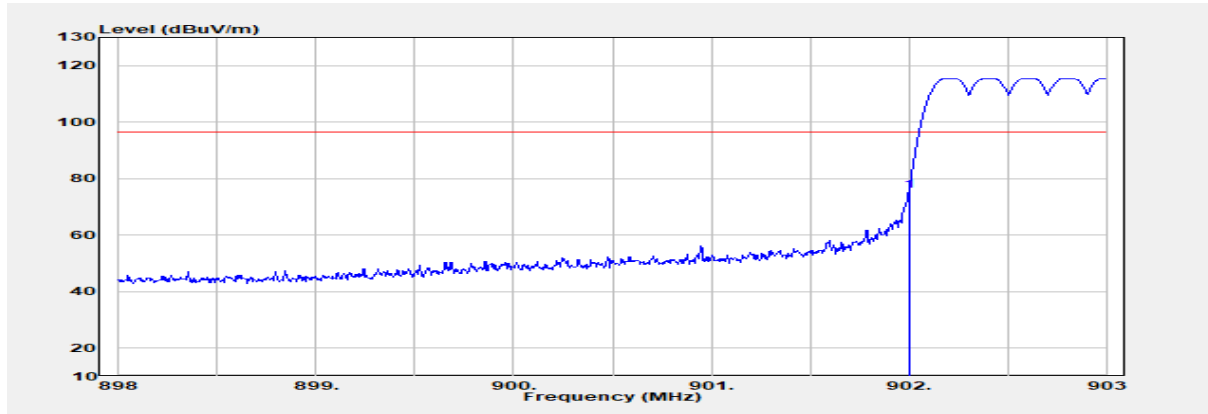
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 Test Date :2024-07-04
 Temp./Humi. :22.4°C/54%
 Antenna Pol. :Horizontal
 Engineer :Sam Huang



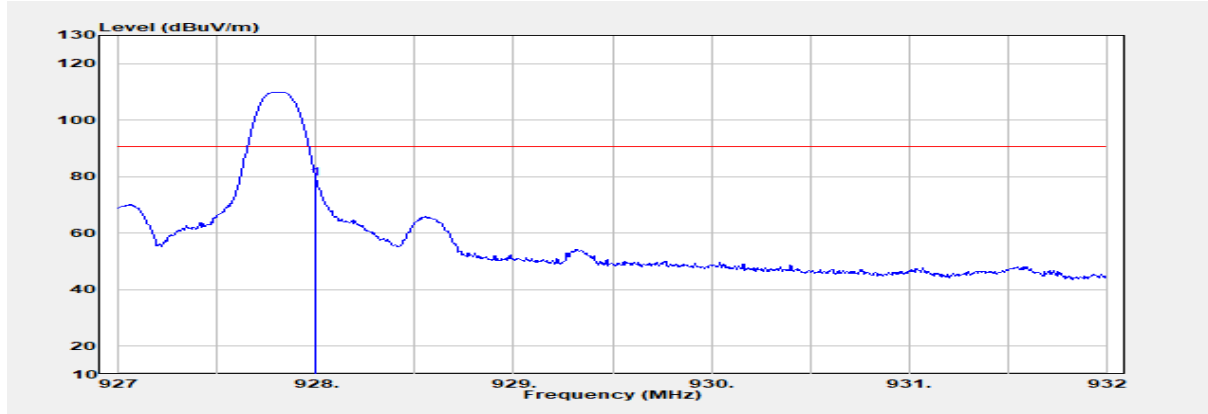
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
902.000	Peak	81.52	-5.82	75.70	96.35	-20.65

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 Test Frequency :927.8 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2024-07-04
 Temp./Humi. :22.4°C/54%
 Antenna Pol. :Vertical
 Engineer :Sam Huang



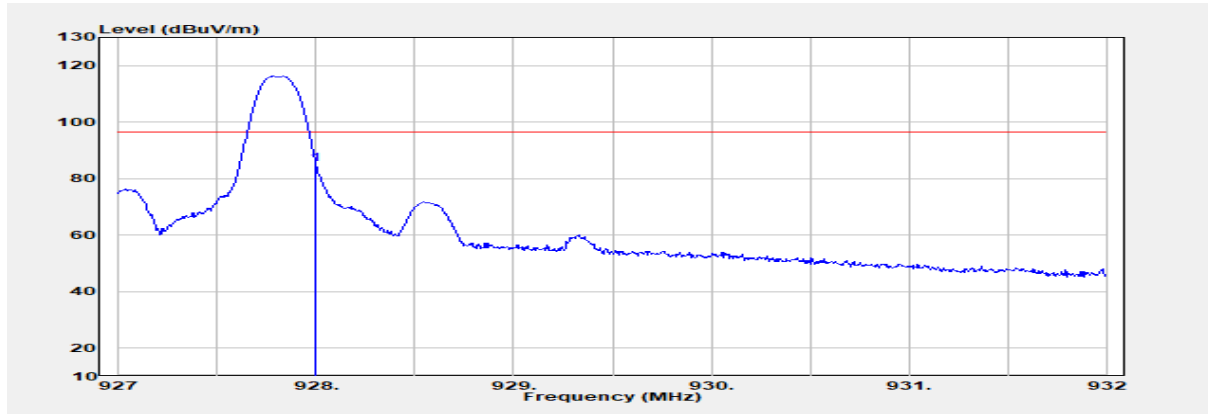
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
928.000	Peak	84.01	-4.86	79.15	90.68	-11.53

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Report Number :TERF2406001611E2
 Operation Mode :FSK 50Kbps
 Test Frequency :927.8 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2024-07-04
 Temp./Humi. :22.4°C/54%
 Antenna Pol. :Horizontal
 Engineer :Sam Huang



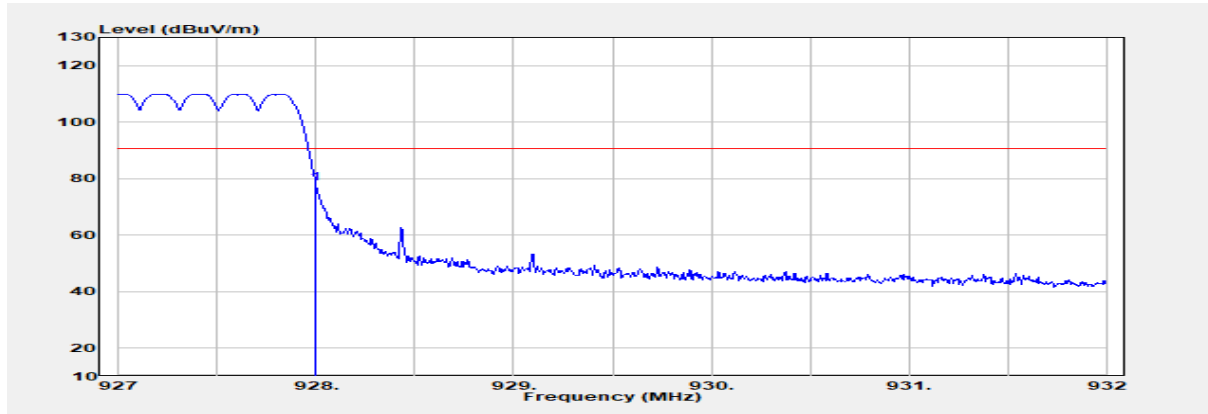
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
928.000	Peak	90.05	-4.86	85.19	96.35	-11.16

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Report Number :TERF2406001611E2
 Operation Mode :FSK 50Kbps
 Test Frequency :927.8 MHz
 Test Mode :Bandedge Hopping
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2024-07-04
 Temp./Humi. :22.4°C/54%
 Antenna Pol. :Vertical
 Engineer :Sam Huang



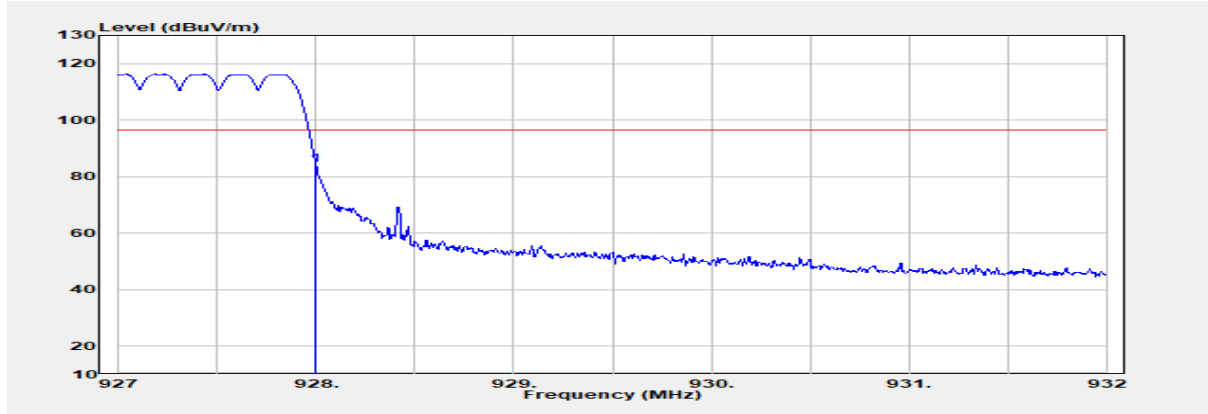
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
928.000	Peak	83.27	-4.86	78.41	90.68	-12.27

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Report Number :TERF2406001611E2
 Operation Mode :FSK 50Kbps
 Test Frequency :927.8 MHz
 Test Mode :Bandedge Hopping
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2024-07-04
 Temp./Humi. :22.4°C/54%
 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
928.000	Peak	89.16	-4.86	84.30	96.35	-12.05

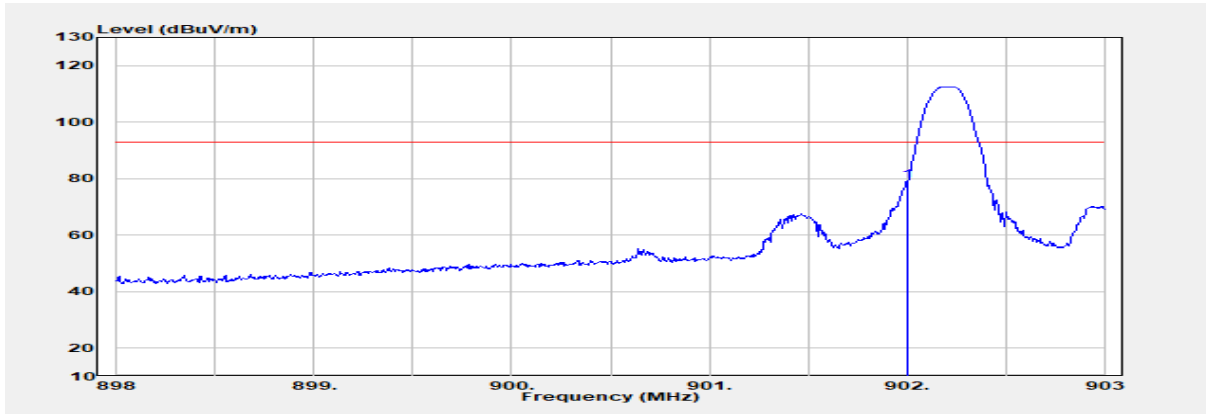
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External antenna

Report Number :TERF2406001611E2
 Operation Mode :FSK 50Kbps
 Test Frequency :902.2 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2024-07-04
 Temp./Humi. :22.4°C/54%
 Antenna Pol. :Vertical
 Engineer :Sam Huang



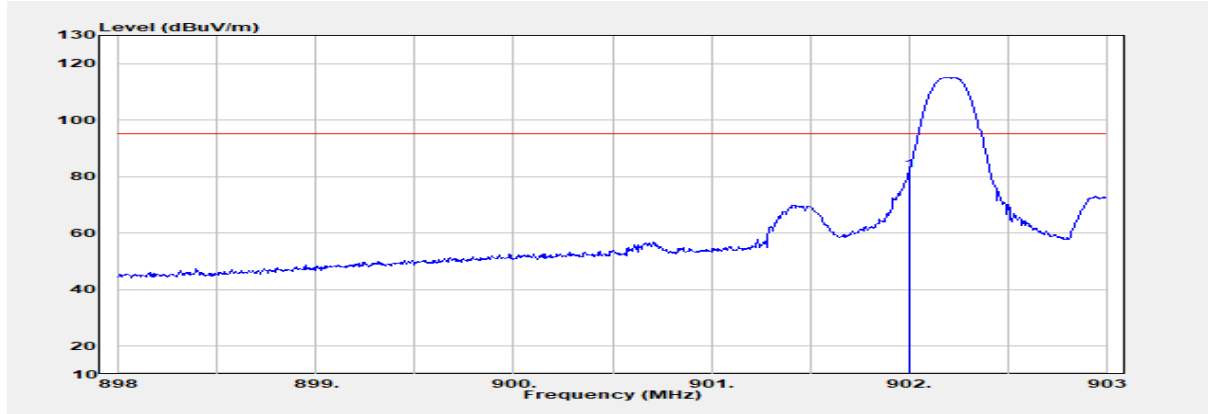
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
902.000	Peak	85.08	-5.82	79.26	92.97	-13.71

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Report Number :TERF2406001611E2
 Operation Mode :FSK 50Kbps
 Test Frequency :902.2 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2024-07-04
 Temp./Humi. :22.4°C/54%
 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
902.000	Peak	88.10	-5.82	82.28	95.33	-13.05

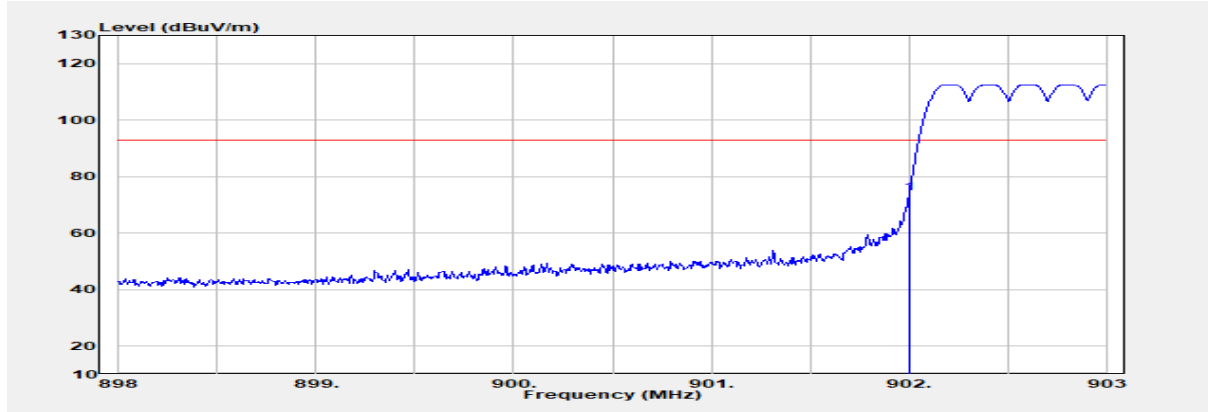
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Report Number :TERF2406001611E2
 Operation Mode :FSK 50Kbps
 Test Frequency :902.2 MHz
 Test Mode :Bandedge Hopping
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2024-07-04
 Temp./Humi. :22.4°C/54%
 Antenna Pol. :Vertical
 Engineer :Sam Huang



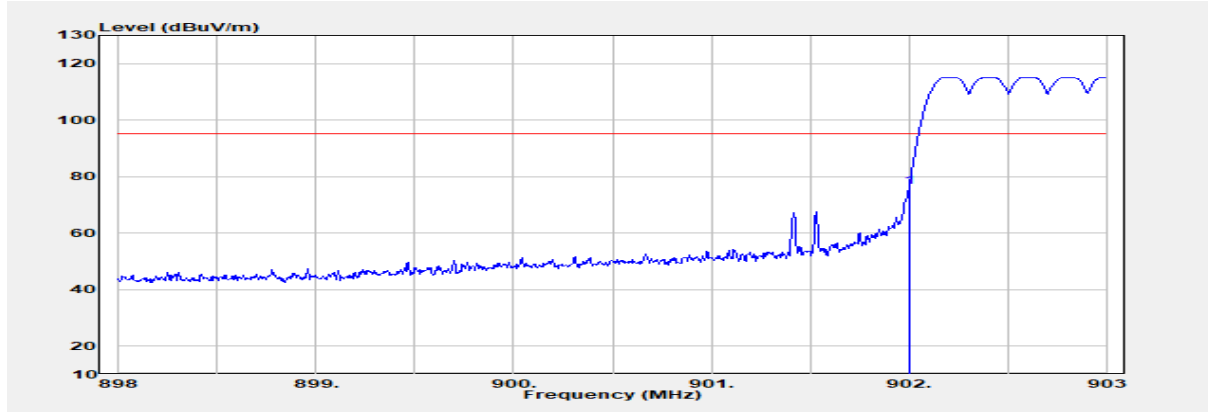
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
902.000	Peak	79.90	-5.82	74.08	92.97	-18.89

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Report Number :TERF2406001611E2
 Operation Mode :FSK 50Kbps
 Test Frequency :902.2 MHz
 Test Mode :Bandedge Hopping
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2024-07-04
 Temp./Humi. :22.4°C/54%
 Antenna Pol. :Horizontal
 Engineer :Sam Huang



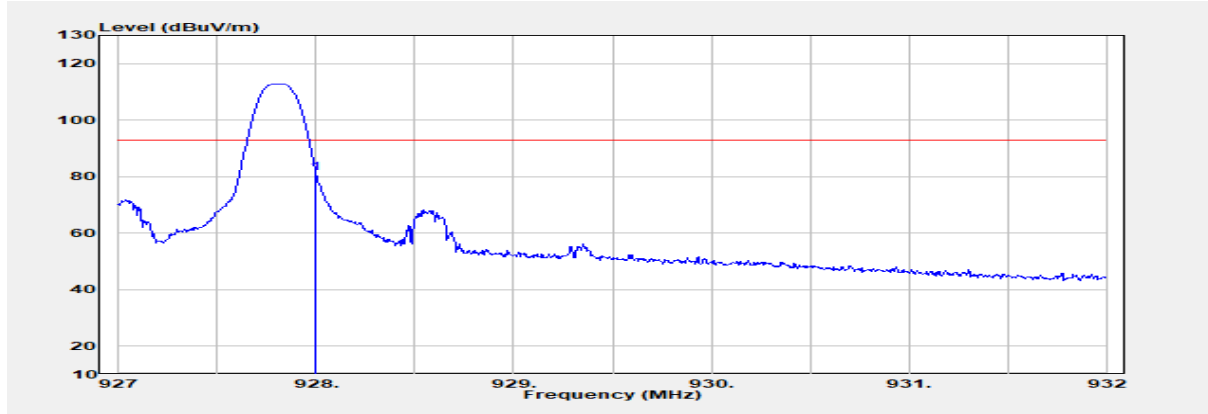
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
902.000	Peak	82.22	-5.82	76.39	95.33	-18.94

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Report Number :TERF2406001611E2
 Operation Mode :FSK 50Kbps
 Test Frequency :927.8 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2024-07-04
 Temp./Humi. :22.4°C/54%
 Antenna Pol. :Vertical
 Engineer :Sam Huang



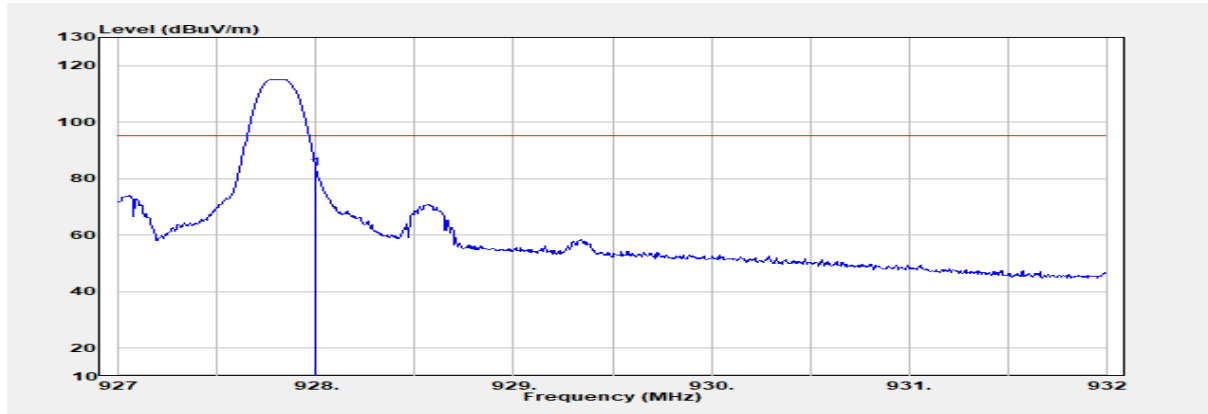
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
928.000	Peak	86.08	-4.86	81.22	92.97	-11.75

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Report Number :TERF2406001611E2
 Operation Mode :FSK 50Kbps
 Test Frequency :927.8 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2024-07-04
 Temp./Humi. :22.4°C/54%
 Antenna Pol. :Horizontal
 Engineer :Sam Huang



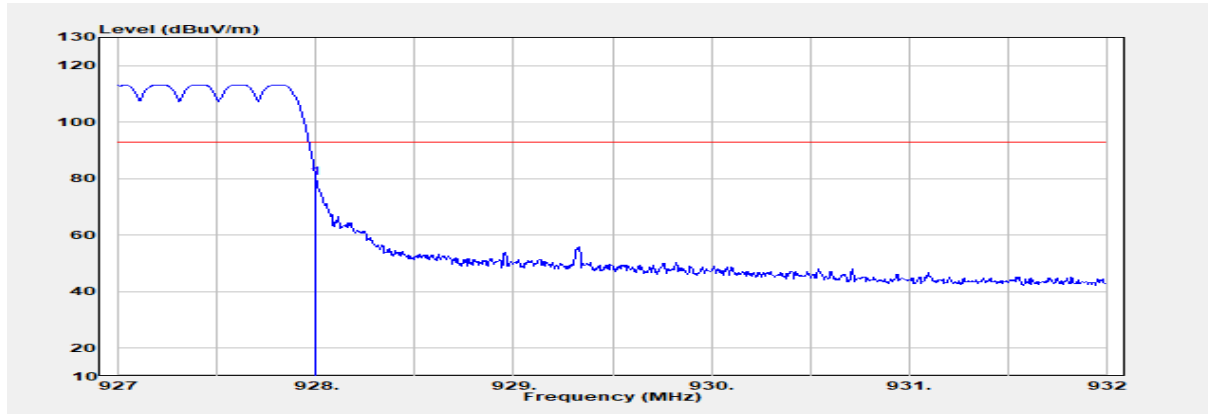
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
928.000	Peak	88.40	-4.86	83.54	95.33	-11.79

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Report Number :TERF2406001611E2
 Operation Mode :FSK 50Kbps
 Test Frequency :927.8 MHz
 Test Mode :Bandedge Hopping
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2024-07-04
 Temp./Humi. :22.4°C/54%
 Antenna Pol. :Vertical
 Engineer :Sam Huang



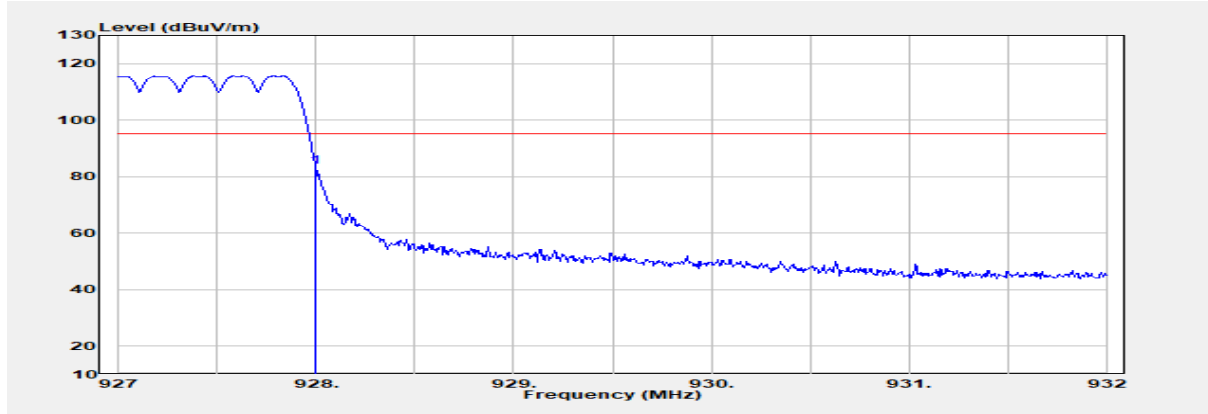
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
928.000	Peak	85.10	-4.86	80.24	92.97	-12.73

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Report Number :TERF2406001611E2
 Operation Mode :FSK 50Kbps
 Test Frequency :927.8 MHz
 Test Mode :Bandedge Hopping
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2024-07-04
 Temp./Humi. :22.4°C/54%
 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
928.000	Peak	88.32	-4.86	83.46	95.33	-11.87

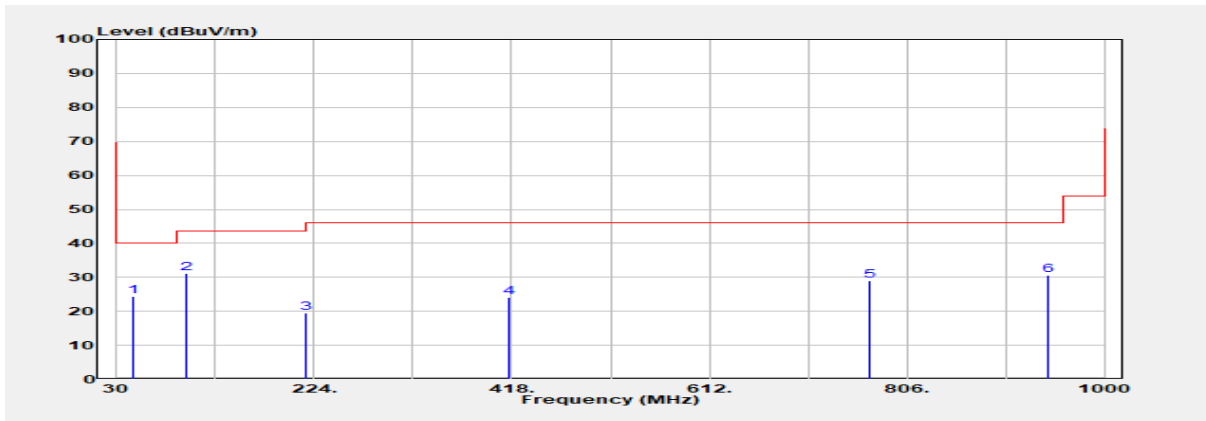
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14.7.3 Radiated Spurious Emission

Internal antenna

Report Number	:TERF2406001611E2	Test Site	:SAC D
Operation Mode	:FSK 50Kbps	Test Date	:2024-07-04
Test Frequency	:915 MHz	Temp./Humi.	:22.4°C/54%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H 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
46.490	Peak	41.63	-17.14	24.49	40.00	-15.51
98.870	Peak	53.35	-22.25	31.11	43.50	-12.39
216.240	Peak	39.22	-19.75	19.47	46.00	-26.53
416.060	Peak	37.18	-13.16	24.02	46.00	-21.98
769.140	Peak	35.92	-6.80	29.12	46.00	-16.88
944.710	Peak	35.10	-4.59	30.51	46.00	-15.49

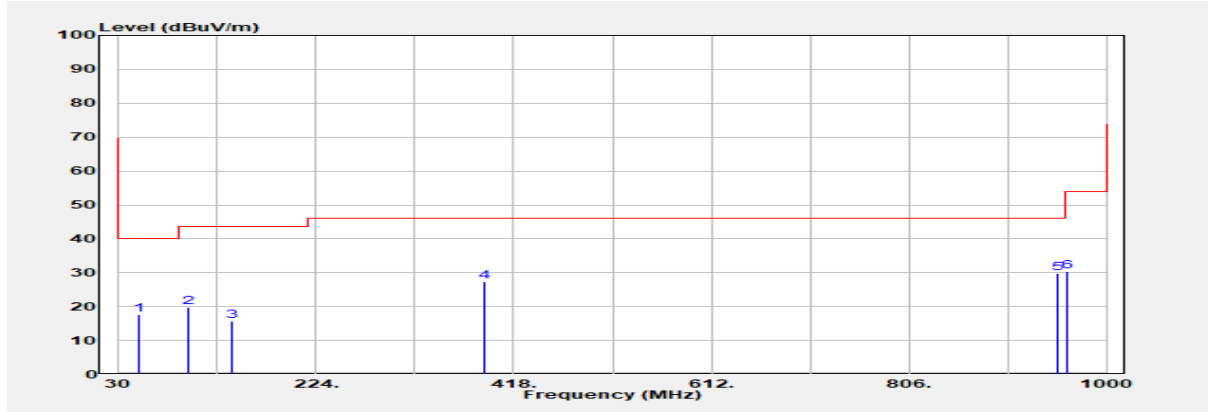
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Report Number :TERF2406001611E2
 Operation Mode :FSK 50Kbps
 Test Frequency :915 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2024-07-04
 Temp./Humi. :22.4°C/54%
 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
50.370	Peak	34.63	-16.96	17.67	40.00	-22.33
98.870	Peak	41.90	-22.25	19.66	43.50	-23.84
140.580	Peak	32.91	-17.25	15.66	43.50	-27.84
389.870	Peak	41.21	-13.76	27.45	46.00	-18.55
951.500	Peak	34.38	-4.59	29.79	46.00	-16.21
961.200	Peak	34.62	-4.29	30.33	54.00	-23.67

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Report Number :TERF2406001611E2

Test Site :SAC D

Operation Mode :FSK 50Kbps

Test Date :2024-07-01

Test Frequency :902.2 MHz

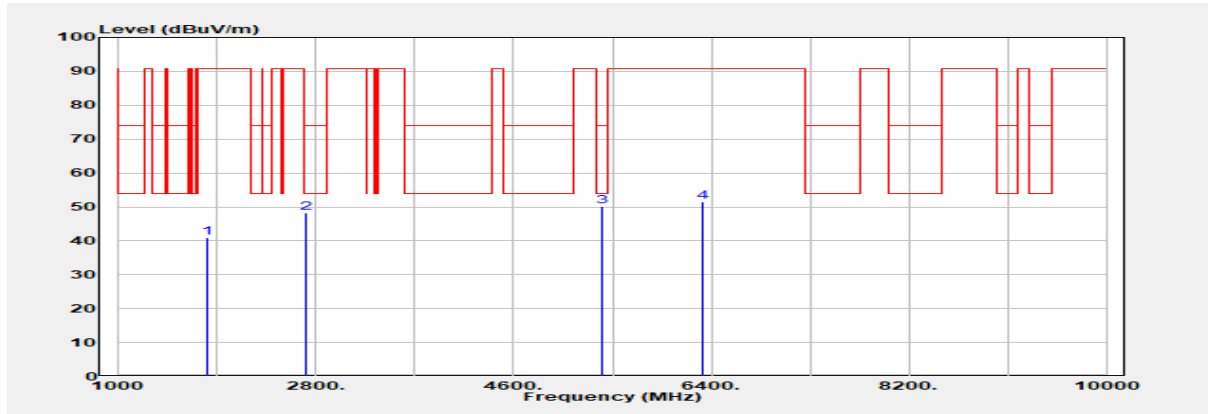
Temp./Humi. :21.7°C/52%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H 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
1804.400	Peak	48.79	-7.91	40.88	90.68	-49.80
2706.600	Peak	51.85	-3.60	48.24	74.00	-25.76
5413.200	Peak	47.23	2.81	50.04	74.00	-23.96
6315.400	Peak	46.31	5.05	51.36	90.68	-39.32

Freq. MHz	Detector Mode AV	Peak Actual FS (dBμV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2706.600	Average	48.24	-2.73	45.51	54.00	-8.49
5413.200	Average	50.04	-2.73	47.31	54.00	-6.69

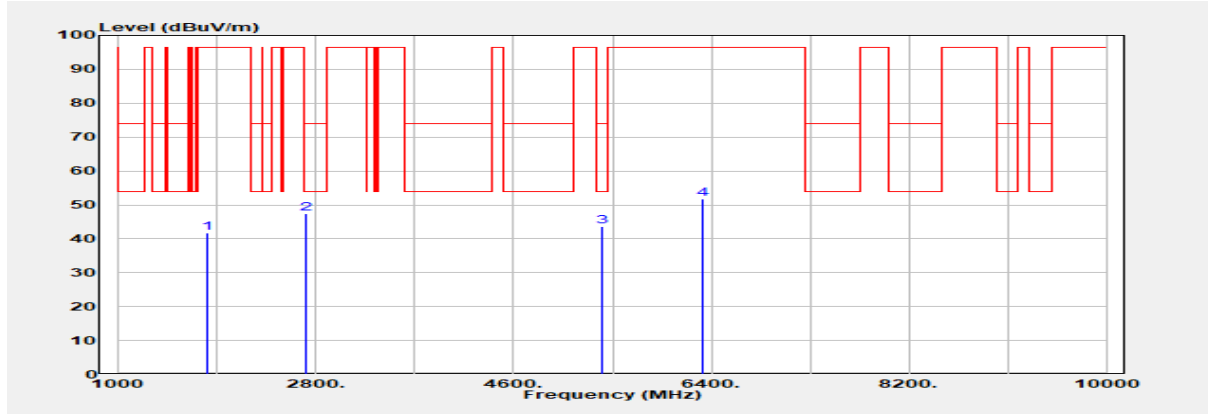
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Report Number :TERF2406001611E2
 Operation Mode :FSK 50Kbps
 Test Frequency :902.2 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2024-07-01
 Temp./Humi. :21.7°C/52%
 Antenna Pol. :Horizontal
 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
1804.400	Peak	49.77	-7.91	41.86	96.35	-54.49
2706.600	Peak	51.16	-3.60	47.56	74.00	-26.44
5413.200	Peak	40.88	2.81	43.69	74.00	-30.31
6315.400	Peak	46.64	5.05	51.70	96.35	-44.65
Freq. MHz	Detector Mode AV	Peak Actual FS (dBμV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2706.600	Average	47.56	-2.73	44.83	54.00	-9.17
5413.200	Average	43.69	-2.73	40.96	54.00	-13.04

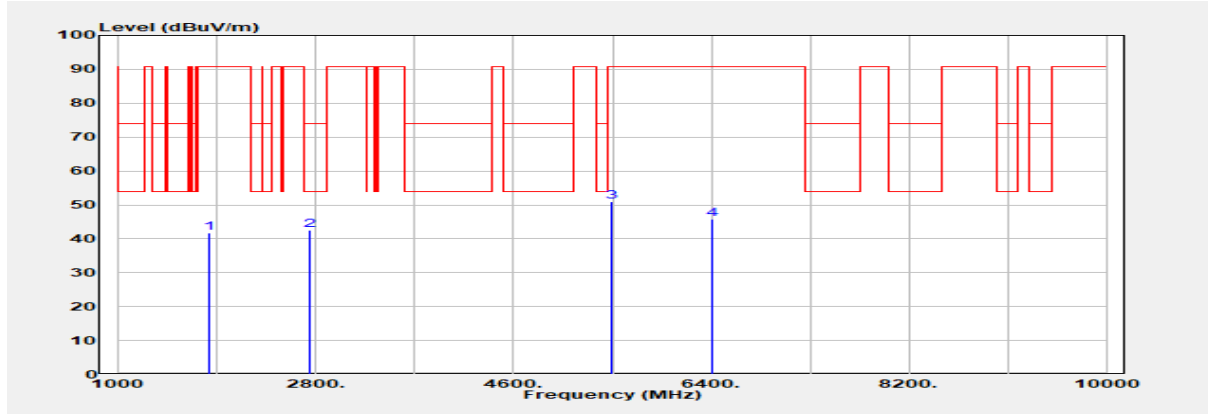
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Report Number :TERF2406001611E2
 Operation Mode :FSK 50Kbps
 Test Frequency :915 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2024-07-03
 Temp./Humi. :22.1°C/53%
 Antenna Pol. :Vertical
 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
1830.000	Peak	49.68	-7.87	41.80	90.68	-48.88
2745.000	Peak	46.60	-3.97	42.64	74.00	-31.36
5490.000	Peak	48.80	2.08	50.88	90.68	-39.80
6405.000	Peak	39.77	6.00	45.78	90.68	-44.90
Freq. MHz	Detector Mode AV	Peak Actual FS (dBμV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2745.000	Average	42.64	-2.73	39.91	54.00	-14.09

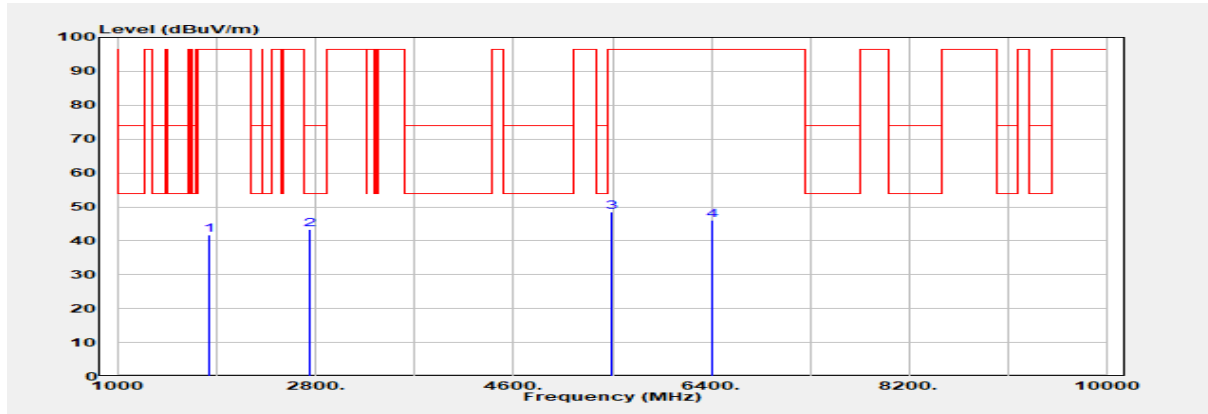
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Report Number :TERF2406001611E2
 Operation Mode :FSK 50Kbps
 Test Frequency :915 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2024-07-03
 Temp./Humi. :22.1°C/53%
 Antenna Pol. :Horizontal
 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
1830.000	Peak	49.56	-7.87	41.69	96.35	-54.66
2745.000	Peak	47.29	-3.97	43.32	74.00	-30.68
5490.000	Peak	46.56	2.08	48.64	96.35	-47.71
6405.000	Peak	39.96	6.00	45.97	96.35	-50.38
Freq. MHz	Detector Mode AV	Peak Actual FS (dBμV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2745.000	Average	43.32	-2.73	40.59	54.00	-13.41

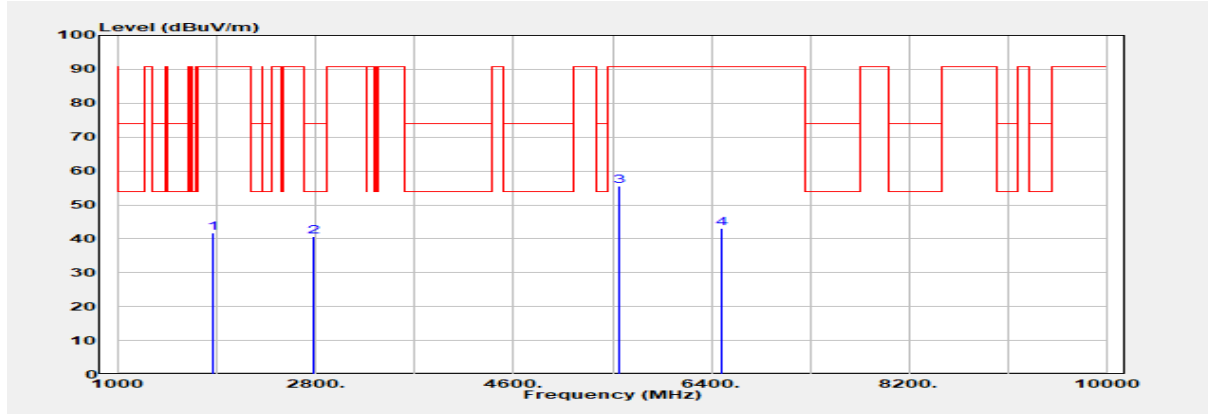
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Report Number :TERF2406001611E2
 Operation Mode :FSK 50Kbps
 Test Frequency :927.8 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2024-07-03
 Temp./Humi. :22.1°C/53%
 Antenna Pol. :Vertical
 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
1855.600	Peak	49.57	-7.84	41.74	90.68	-48.94
2783.400	Peak	44.71	-4.09	40.61	74.00	-33.39
5566.800	Peak	53.42	2.04	55.46	90.68	-35.22
6494.600	Peak	37.86	5.24	43.10	90.68	-47.58

Freq. MHz	Detector Mode AV	Peak Actual FS (dBμV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2783.400	Average	40.61	-2.73	37.88	54.00	-16.12

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Report Number :TERF2406001611E2

Test Site :SAC D

Operation Mode :FSK 50Kbps

Test Date :2024-07-03

Test Frequency :927.8 MHz

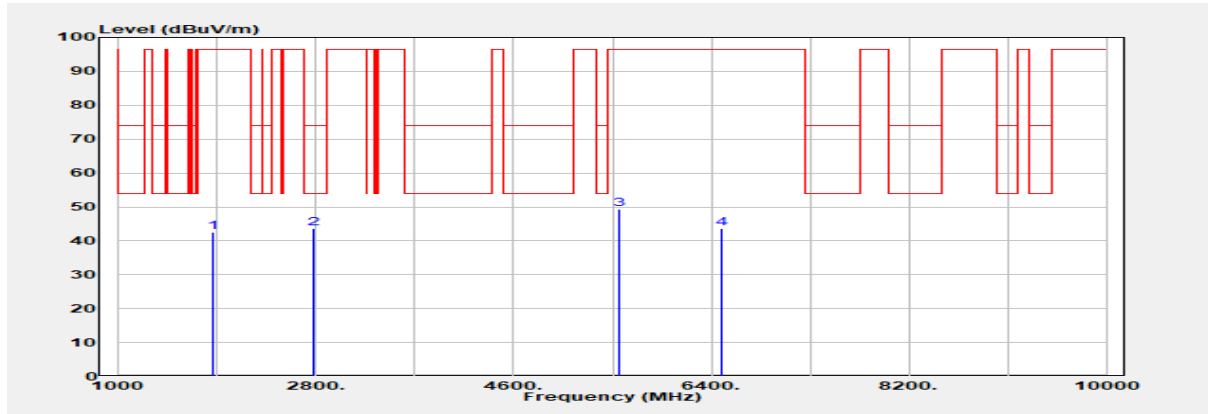
Temp./Humi. :22.1°C/53%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H 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
1855.600	Peak	50.37	-7.84	42.54	96.35	-53.81
2783.400	Peak	47.61	-4.09	43.52	74.00	-30.48
5566.800	Peak	47.40	2.04	49.44	96.35	-46.91
6494.600	Peak	38.36	5.24	43.60	96.35	-52.75
Freq. MHz	Detector Mode AV	Peak Actual FS (dBμV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2783.400	Average	43.52	-2.73	40.79	54.00	-13.21

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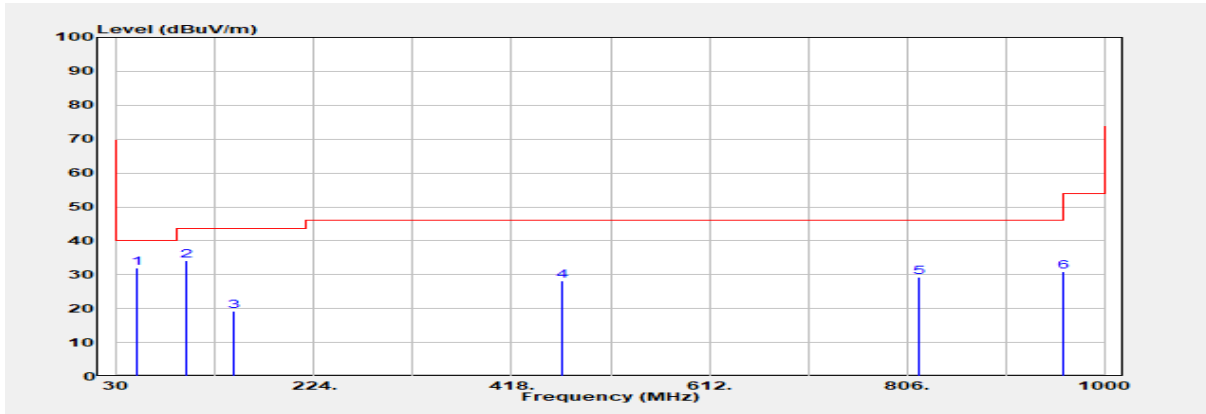
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External antenna

Report Number :TERF2406001611E2
 Operation Mode :FSK 50Kbps
 Test Frequency :915 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2024-07-03
 Temp./Humi. :21.7°C/52%
 Antenna Pol. :Vertical
 Engineer :Sam Huang



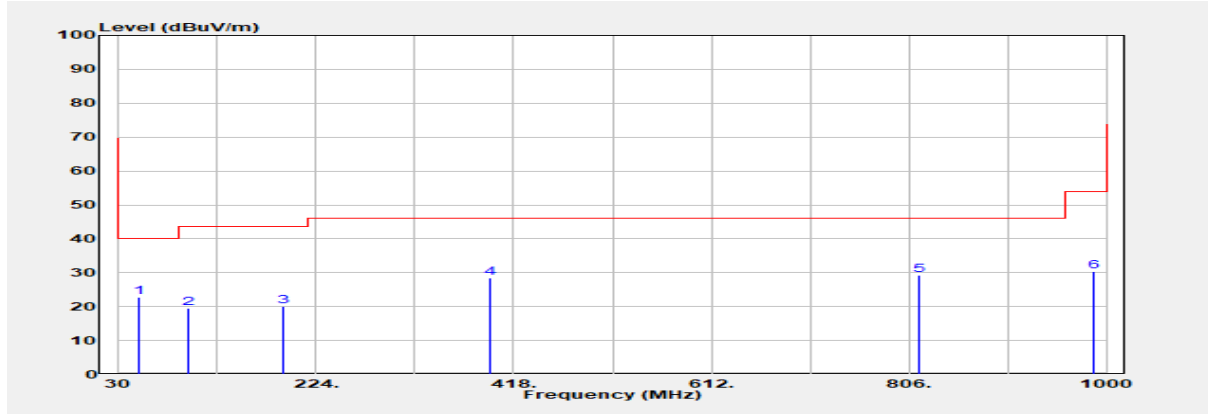
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
50.370	Peak	48.83	-16.96	31.87	40.00	-8.13
98.870	Peak	56.33	-22.25	34.09	43.50	-9.41
144.460	Peak	35.93	-16.67	19.26	43.50	-24.24
467.470	Peak	40.14	-12.02	28.12	46.00	-17.88
817.640	Peak	35.74	-6.40	29.35	46.00	-16.65
959.260	Peak	35.15	-4.27	30.88	46.00	-15.12

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Report Number :TERF2406001611E2
 Operation Mode :FSK 50Kbps
 Test Frequency :915 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2024-07-03
 Temp./Humi. :21.7°C/52%
 Antenna Pol. :Horizontal
 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
50.370	Peak	39.78	-16.96	22.82	40.00	-17.18
97.900	Peak	41.98	-22.37	19.62	43.50	-23.88
191.990	Peak	39.50	-19.37	20.13	43.50	-23.37
394.720	Peak	41.95	-13.61	28.34	46.00	-17.66
815.700	Peak	35.59	-6.45	29.14	46.00	-16.86
988.360	Peak	35.25	-4.83	30.42	54.00	-23.58

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Report Number :TERF2406001611E2

Test Site :SAC D

Operation Mode :FSK 50Kbps

Test Date :2024-07-01

Test Frequency :902.2 MHz

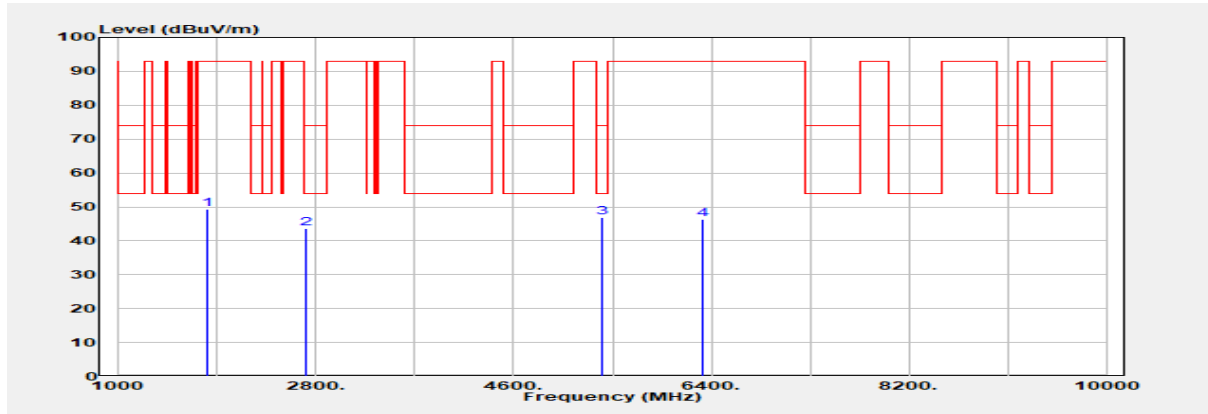
Temp./Humi. :21.7°C/52%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H 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
1804.400	Peak	57.32	-7.91	49.41	92.97	-43.56
2706.600	Peak	47.12	-3.60	43.51	74.00	-30.49
5413.200	Peak	44.01	2.81	46.82	74.00	-27.18
6315.400	Peak	41.37	5.05	46.43	92.97	-46.54

Freq. MHz	Detector Mode AV	Peak Actual FS (dBμV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2706.600	Average	43.51	-2.73	40.78	54.00	-13.22
5413.200	Average	46.82	-2.73	44.09	54.00	-9.91

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Report Number :TERF2406001611E2

Test Site :SAC D

Operation Mode :FSK 50Kbps

Test Date :2024-07-01

Test Frequency :902.2 MHz

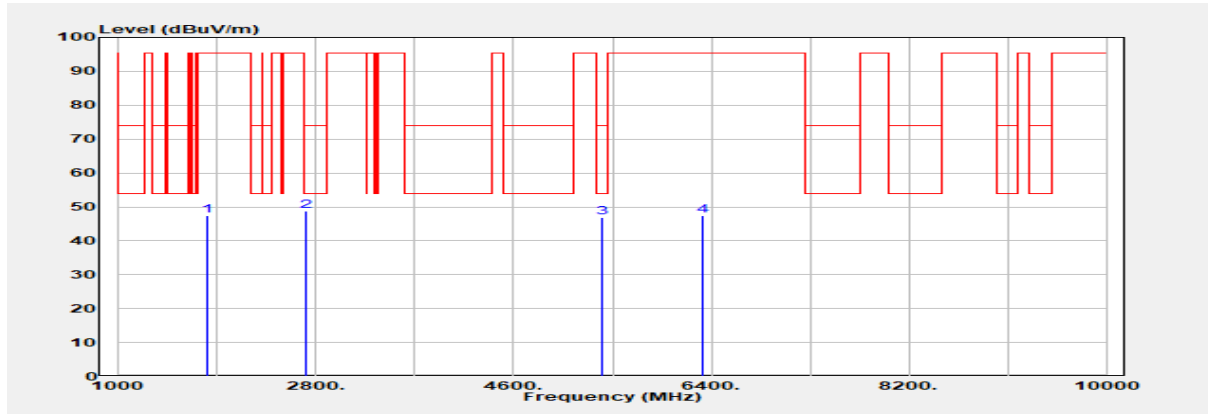
Temp./Humi. :21.7°C/52%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H 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
1804.400	Peak	55.40	-7.91	47.49	95.33	-47.84
2706.600	Peak	52.28	-3.60	48.68	74.00	-25.32
5413.200	Peak	44.19	2.81	47.00	74.00	-27.00
6315.400	Peak	42.43	5.05	47.48	95.33	-47.85
Freq. MHz	Detector Mode AV	Peak Actual FS (dBμV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2706.600	Average	48.68	-2.73	45.95	54.00	-8.05
5413.200	Average	47.00	-2.73	44.27	54.00	-9.73

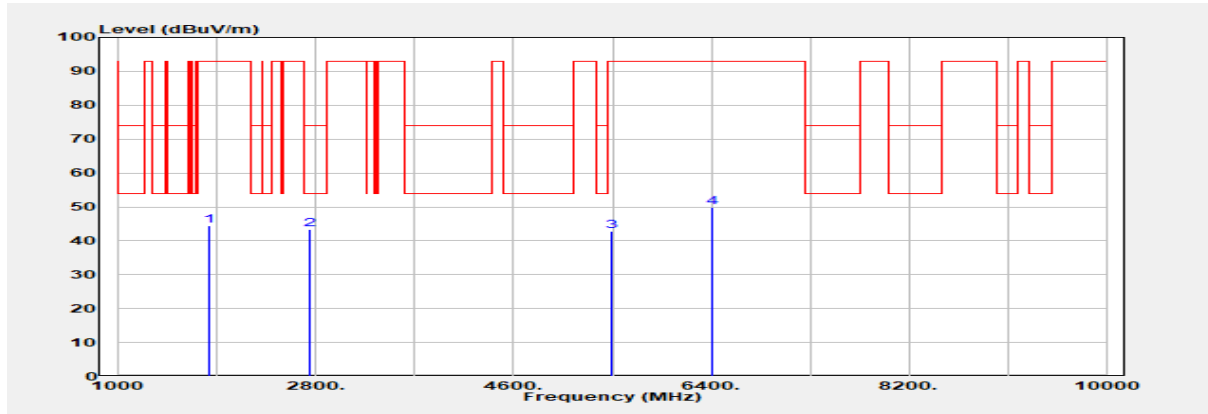
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Report Number :TERF2406001611E2
 Operation Mode :FSK 50Kbps
 Test Frequency :915 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2024-07-03
 Temp./Humi. :22.1°C/53%
 Antenna Pol. :Vertical
 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
1830.000	Peak	52.22	-7.87	44.35	92.97	-48.62
2745.000	Peak	47.43	-3.97	43.47	74.00	-30.53
5490.000	Peak	40.79	2.08	42.87	92.97	-50.10
6405.000	Peak	43.90	6.00	49.91	92.97	-43.06

Freq. MHz	Detector Mode AV	Peak Actual FS (dBμV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2745.000	Average	43.47	-2.73	40.74	54.00	-13.26

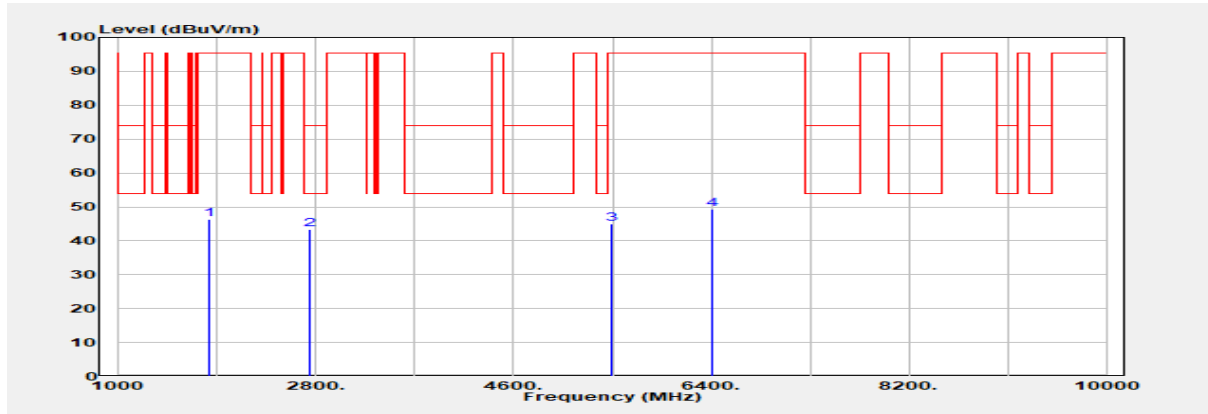
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Test Site :SAC D
 Test Date :2024-07-03
 Temp./Humi. :22.1°C/53%
 Antenna Pol. :Horizontal
 Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
1830.000	Peak	54.20	-7.87	46.33	95.33	-49.00
2745.000	Peak	47.21	-3.97	43.24	74.00	-30.76
5490.000	Peak	42.83	2.08	44.91	95.33	-50.42
6405.000	Peak	43.28	6.00	49.28	95.33	-46.05
Freq. MHz	Detector Mode AV	Peak Actual FS (dBμV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2745.000	Average	43.24	-2.73	40.51	54.00	-13.49

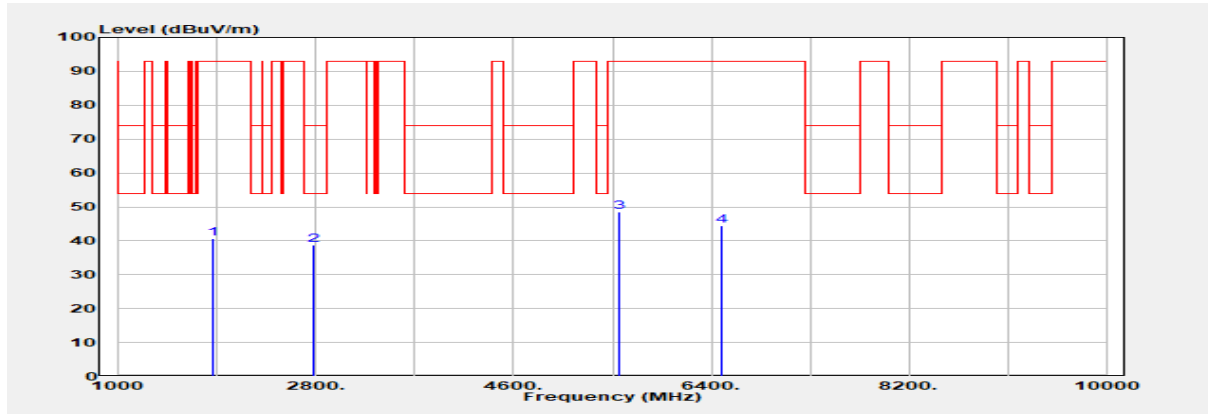
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Report Number :TERF2406001611E2
 Operation Mode :FSK 50Kbps
 Test Frequency :927.8 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2024-07-03
 Temp./Humi. :22.1°C/53%
 Antenna Pol. :Vertical
 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
1855.600	Peak	48.43	-7.84	40.59	92.97	-52.38
2783.400	Peak	42.78	-4.09	38.69	74.00	-35.31
5566.800	Peak	46.39	2.04	48.43	92.97	-44.54
6494.600	Peak	39.15	5.24	44.39	92.97	-48.58
Freq. MHz	Detector Mode AV	Peak Actual FS (dBμV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2783.400	Average	38.69	-2.73	35.96	54.00	-18.04

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Report Number :TERF2406001611E2

Test Site :SAC D

Operation Mode :FSK 50Kbps

Test Date :2024-07-03

Test Frequency :927.8 MHz

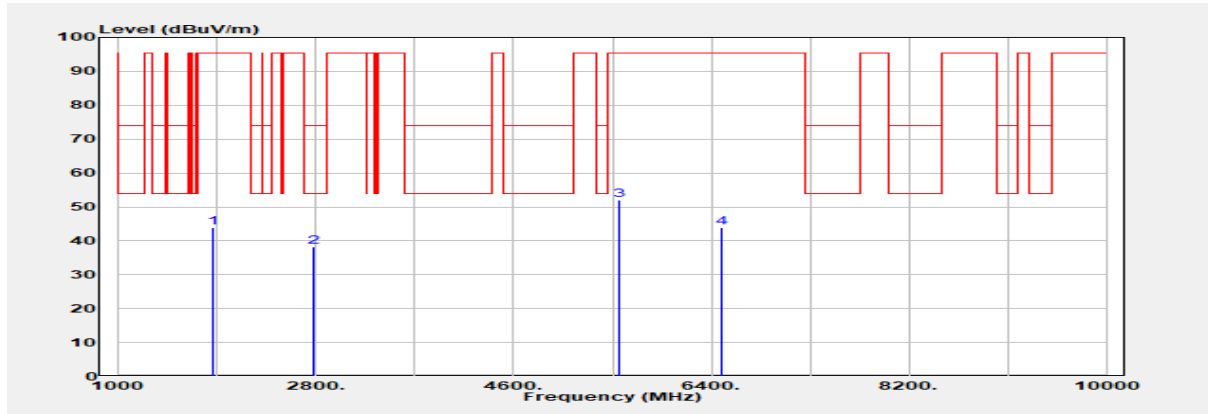
Temp./Humi. :22.1°C/53%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H 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
1855.600	Peak	51.74	-7.84	43.90	95.33	-51.43
2783.400	Peak	42.38	-4.09	38.29	74.00	-35.71
5566.800	Peak	49.93	2.04	51.97	95.33	-43.36
6494.600	Peak	38.54	5.24	43.78	95.33	-51.55
Freq. MHz	Detector Mode AV	Peak Actual FS (dBμV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2783.400	Average	38.29	-2.73	35.56	54.00	-18.44

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15 ANTENNA REQUIREMENT

15.1 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.

15.2 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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