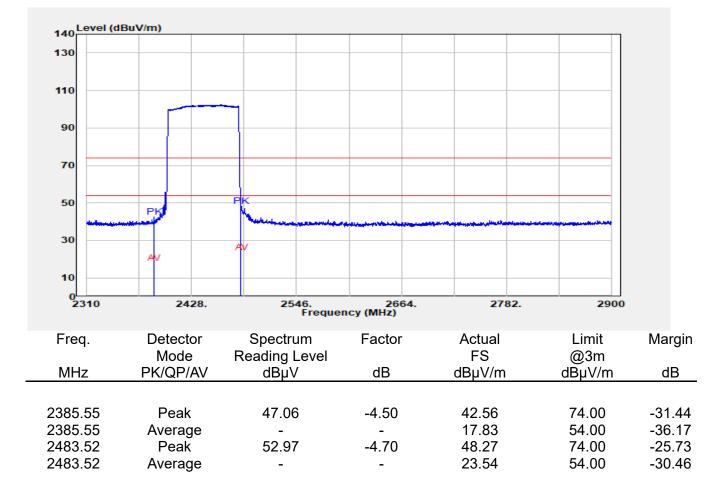


Test Site **Report Number** :TERF2410003027ER **Operation Mode** Test Date :EDR 3M Hopping Test Frequency :2402~2480 MHz Test Mode :Bandedge EUT Pol :E2 Plane Engineer

:SAC 3 :2024-10-21 Temp./Humi. :22.4℃/63% Antenna Pol. :Horizontal :Cooper Hsu



Average Duty Cycle Factor=-24.73 (dB)

Average Level= Peak Level+ Duty Cycle Factor

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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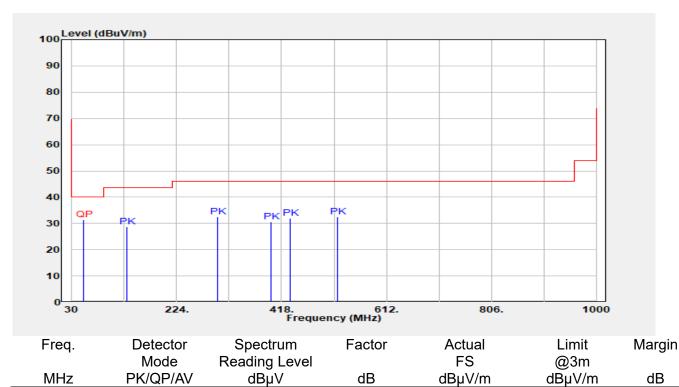
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Report No.: TERF2410003027ER Page: 53 of 74



12.6.4 Radiated Spurious Emission

Report Number	:TERF2410003027ER	Test Site	:SAC 3
Operation Mode	:BR	Test Date	:2024-10-21
Test Frequency	:2441 MHz	Temp./Humi.	:22.4°C/63%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Cooper Hsu



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90	days only.
	aayo oniy.

40.13

38.54

39.36

35.84

36.38

35.69

QP

Peak

Peak

Peak

Peak

Peak

52.31

131.85

299.66

398.60

433.52

520.82

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-8.65

-9.69

-6.92

-5.26

-4.34

-3.04

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31.48

28.85

32.44

30.58

32.04

32.65

40.00

43.50

46.00

46.00

46.00

46.00

-8.52

-14.65

-13.56

-15.42

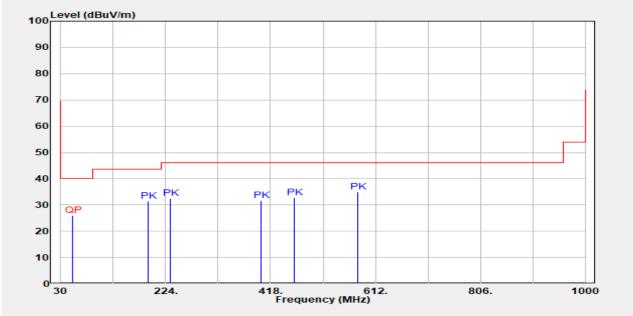
-13.96

-13.35



Report Number	:TERF2410003027ER
Operation Mode	:BR
Test Frequency	:2441 MHz
Test Mode	:Tx
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2024-10-21
Temp./Humi.	:22.4°C/63%
Antenna Pol.	:Horizontal
Engineer	:Cooper Hsu



dΒ
3.87
2.14
3.54
4.32
3.20
1.08

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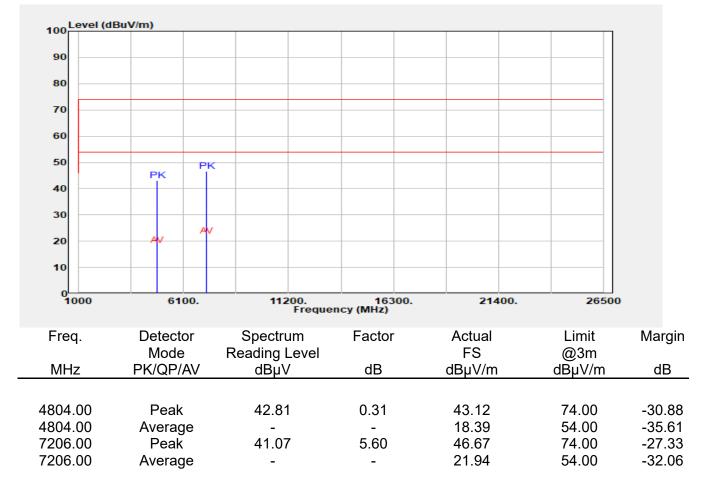
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Report Number	:TERF2410003027ER
Operation Mode	:BR
Test Frequency	:2402 MHz
Test Mode	:Tx
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2024-10-21
Temp./Humi.	:22.4°C/63%
Antenna Pol.	:Vertical
Engineer	:Cooper Hsu



Average Level= Peak Level+ Duty Cycle Factor

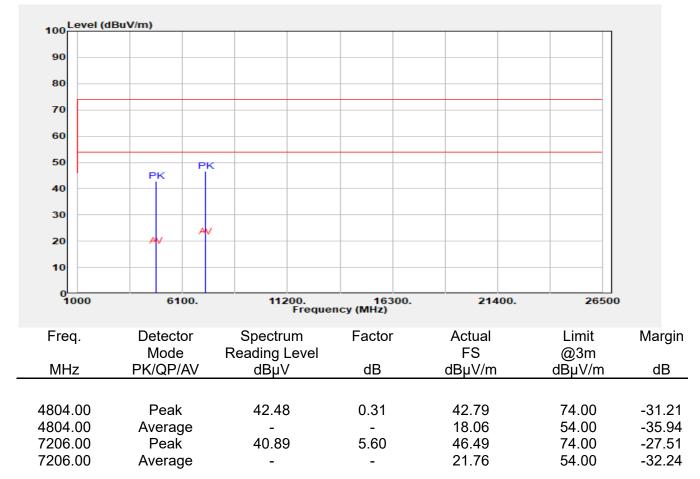
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Report Number	:TERF2410003027ER
Operation Mode	:BR
Test Frequency	:2402 MHz
Test Mode	:Tx
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2024-10-21
Temp./Humi.	:22.4°C/63%
Antenna Pol.	:Horizontal
Engineer	:Cooper Hsu



Average Level= Peak Level+ Duty Cycle Factor

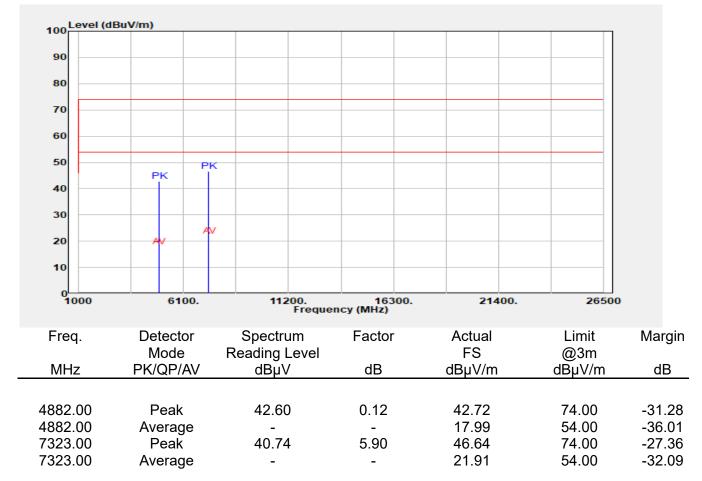
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Report Number	:TERF2410003027ER
Operation Mode	:BR
Test Frequency	:2441 MHz
Test Mode	:Tx
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2024-10-21
Temp./Humi.	:22.4°C/63%
Antenna Pol.	:Vertical
Engineer	:Cooper Hsu



Average Level= Peak Level+ Duty Cycle Factor

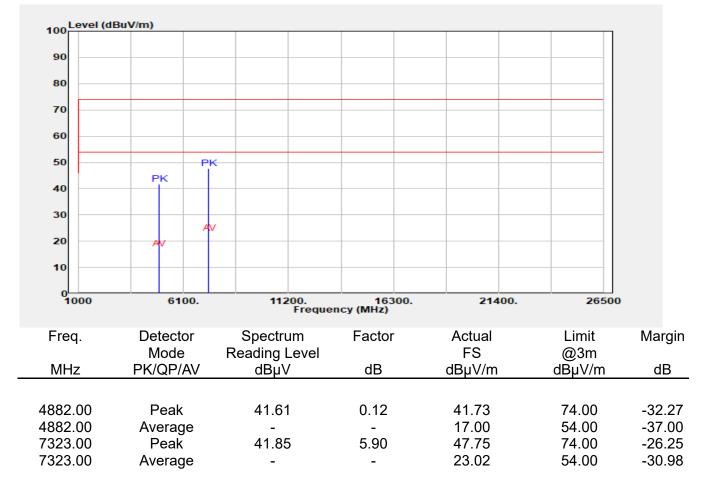
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Report Number	:TERF2410003027ER
Operation Mode	:BR
Test Frequency	:2441 MHz
Test Mode	:Tx
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2024-10-21
Temp./Humi.	:22.4°C/63%
Antenna Pol.	:Horizontal
Engineer	:Cooper Hsu



Average Level= Peak Level+ Duty Cycle Factor

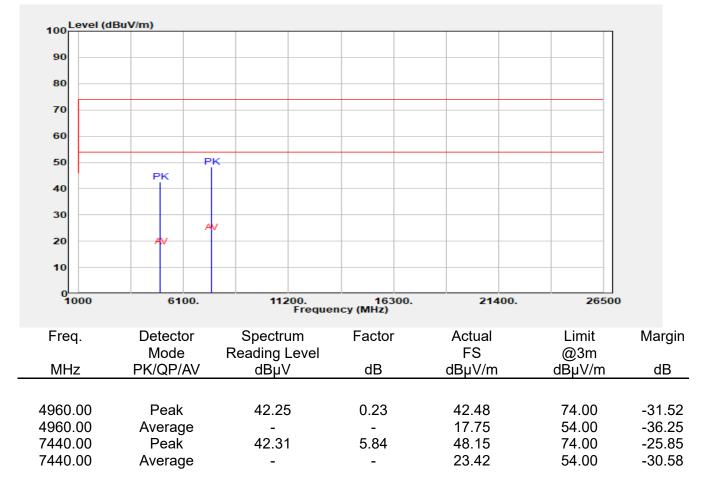
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Report Number	:TERF2410003027ER
Operation Mode	:BR
Test Frequency	:2480 MHz
Test Mode	:Tx
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2024-10-21
Temp./Humi.	:22.4°C/63%
Antenna Pol.	:Vertical
Engineer	:Cooper Hsu



Average Level= Peak Level+ Duty Cycle Factor

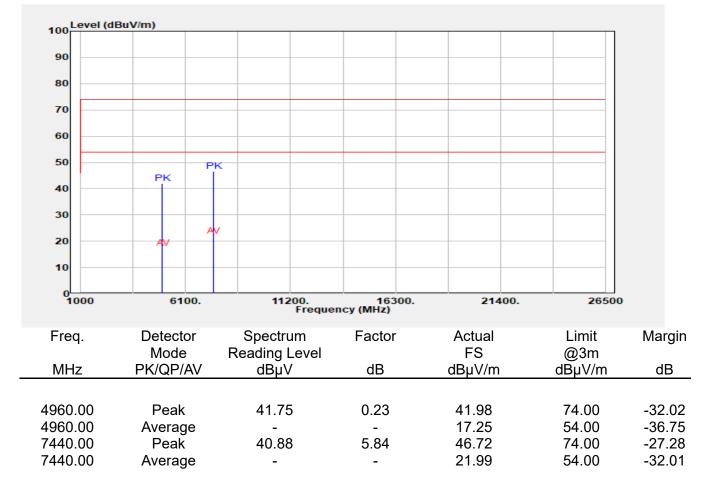
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Report Number	:TERF2410003027ER
Operation Mode	:BR
Test Frequency	:2480 MHz
Test Mode	:Tx
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2024-10-21
Temp./Humi.	:22.4°C/63%
Antenna Pol.	:Horizontal
Engineer	:Cooper Hsu



Average Level= Peak Level+ Duty Cycle Factor

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

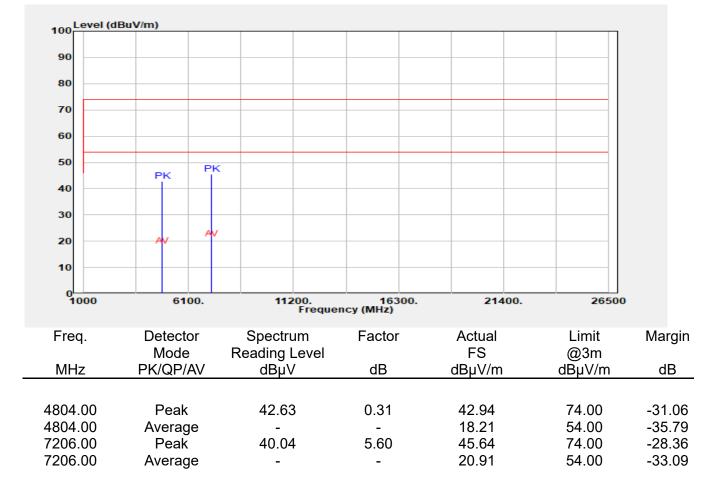
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Report Number	:TERF2410003027ER
Operation Mode	:EDR 3M
Test Frequency	:2402 MHz
Test Mode	:Tx
EUT Pol	:E2 Plane

Test Site :SAC 3 :2024-10-21 Test Date Temp./Humi. :22.4°C/63% Antenna Pol. :Vertical Engineer :Cooper Hsu



Average Duty Cycle Factor=-24.73 (dB)

Average Level= Peak Level+ Duty Cycle Factor

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

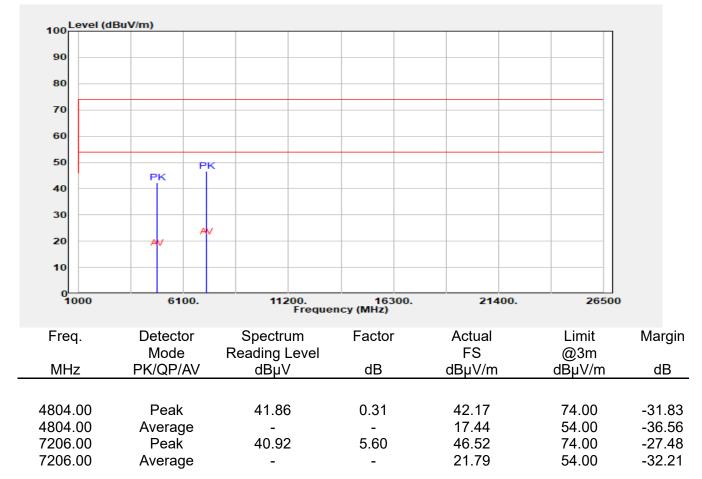
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Report Number	:TERF2410003027ER
Operation Mode	:EDR 3M
Test Frequency	:2402 MHz
Test Mode	:Tx
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2024-10-21
Temp./Humi.	:22.4°C/63%
Antenna Pol.	:Horizontal
Engineer	:Cooper Hsu



Average Level= Peak Level+ Duty Cycle Factor

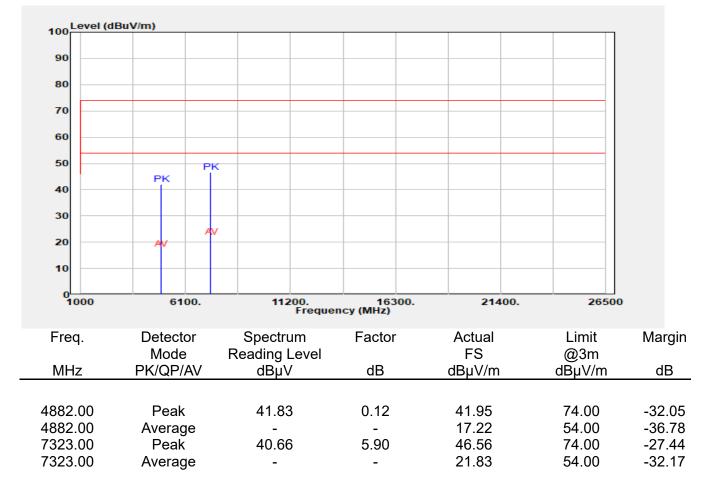
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Report Number	:TERF2410003027ER
Operation Mode	:EDR 3M
Test Frequency	:2441 MHz
Test Mode	:Tx
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2024-10-21
Temp./Humi.	:22.4°C/63%
Antenna Pol.	:Vertical
Engineer	:Cooper Hsu



Average Level= Peak Level+ Duty Cycle Factor

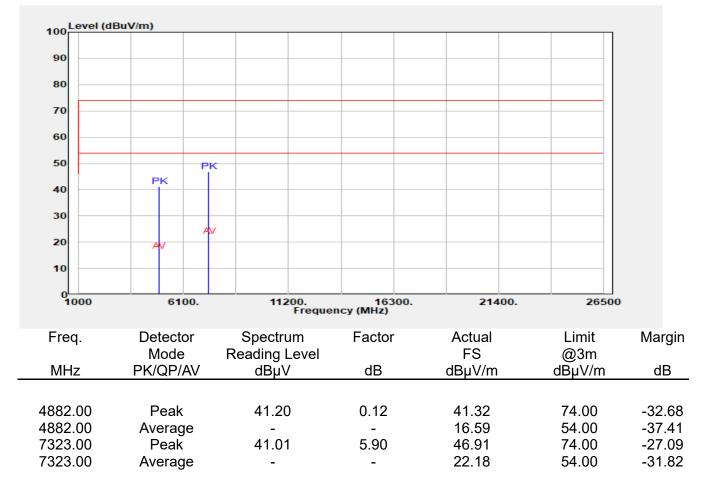
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Report Number	:TERF2410003027ER
Operation Mode	:EDR 3M
Test Frequency	:2441 MHz
Test Mode	:Tx
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2024-10-21
Temp./Humi.	:22.4°C/63%
Antenna Pol.	:Horizontal
Engineer	:Cooper Hsu



Average Level= Peak Level+ Duty Cycle Factor

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

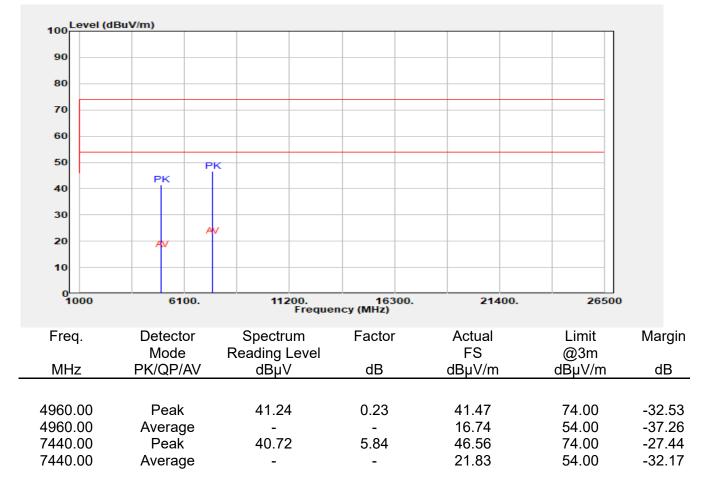
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Report Number	:TERF2410003027ER
Operation Mode	:EDR 3M
Test Frequency	:2480 MHz
Test Mode	:Tx
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2024-10-21
Temp./Humi.	:22.4°C/63%
Antenna Pol.	:Vertical
Engineer	:Cooper Hsu



Average Level= Peak Level+ Duty Cycle Factor

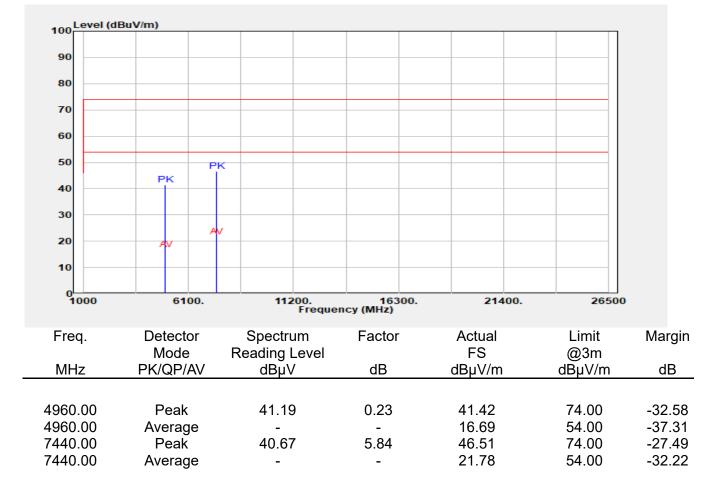
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Report Number	:TERF2410003027ER
Operation Mode	:EDR 3M
Test Frequency	:2480 MHz
Test Mode	:Tx
EUT Pol	:E2 Plane

Test Site :SAC 3 :2024-10-21 Test Date Temp./Humi. :22.4°C/63% Antenna Pol. :Horizontal Engineer :Cooper Hsu



Average Duty Cycle Factor=-24.73 (dB)

Average Level= Peak Level+ Duty Cycle Factor

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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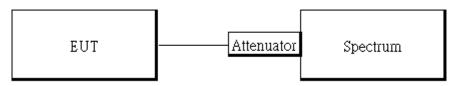


13 NUMBER OF HOPPING FREQUENCY

Standard Applicable 13.1

Frequency hopping systems operating in the 2400MHz-2483.5 MHz bands shall use at least 15 hopping frequencies.

13.2 Test Setup



13.3 Measurement Procedure

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows ANSI C63.10:2013.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. Set spectrum analyzer Start=2400MHz, Stop = 2483.5MHz, Sweep = auto.
- 5. Set the spectrum analyzer as RBW = 30% of the channel spacing, VBW \geq RBW., Detector = Peak
- 6. Max hold, view and count how many channel in the band.

13.4 Measurement Result

Tabular Data of Total Channel Number

	Channel Number	Limit
2.4 GHz – 2.441 GHz	40	
2.441 GHz – 2.4835 GHz	39	>15
2.4 GHz ~2.4835 GHz	(40+39) = 79	

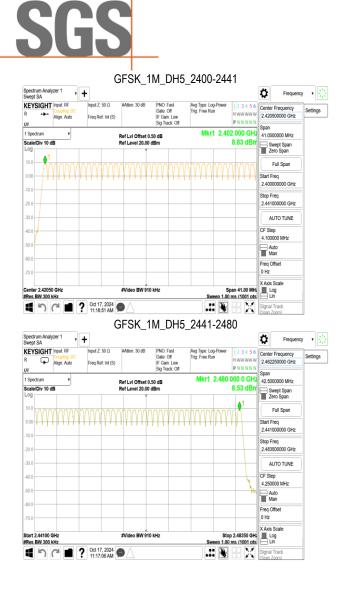
f (886-2) 2298-0488

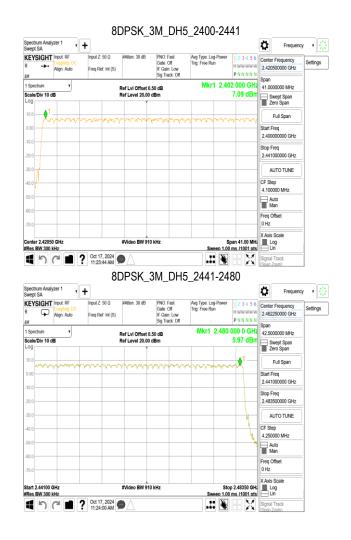
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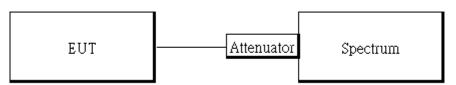


14 TIME OF OCCUPANCY (DWELL TIME)

Standard Applicable 14.1

Frequency hopping systems operating in the 2400MHz-2483.5MHz. The average time of occupancy on any frequency shall not greater than 0.4 s within period of 0.4 seconds multiplied by the number of hopping channel employed.

14.2 Test Setup



14.3 **Measurement Procedure**

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows ANSI C63.10:2013.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. Set center frequency of spectrum analyzer = operating frequency.

5. Set the spectrum analyzer as RBW, VBW=1MHz, 3MHz, Span = 0Hz, Detector = Peak, Adjust Sweep = 2~8ms.

6. Repeat above procedures until all frequency of the interest measured were complete.

Formula Deduced: time occupancy of one time slot X Hopping rate / total slot in one channel / total channel that hops X period of working channels.

Where, standard hopping rate is 1600 hops/s, slot in one channel for DH1, DH3, and DH5 is 2, 4, and 6, respectively.

DH1 consists of single time slot of the uplink, and one slot of the downlink Total Slot: 2 DH3 consists of three time slot of the uplink, and one slot of the downlink. Total Slot: 4 DH5 consists of five time slot of the uplink, and one slot of the downlink. Total Slot: 6

Note: the result of the complete test default channel at 1Mbps is recorded on the test report, 2Mbps, and 3Mbps only records the measurement result at middle channel that reveals no much deviation.

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Measurement Result 14.4

GFSK (1Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)		
	DH1	123.20	400		
39	DH3	264.00	400		
	DH5	308.80	400		

π/4 DQPSK (2Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)		
	2DH1	123.20	400		
39	2DH3	262.40	400		
	2DH5	307.20	400		

8-DPSK (3Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)		
	3DH1	123.20	400		
39	3DH3	262.40	400		
	3DH5	307.20	400		

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GFSK (1Mbps):

CH Mid	DH1 time slot	=	0.385 *	(1600/2/79)	*	31.6	=	123.20 (ms)
	DH3 time slot	=	1.650 *	(1600/4/79)	*	31.6	=	264.00 (ms)
	DH5 time slot	=	2.895 *	(1600/6/79)	*	31.6	=	308.80 (ms)

$\pi/4$ -DQPSK (2Mbps):

CH Mid	2DH1 time slot	=	0.385 *	(1600/2/79)	*	31.6	=	123.20 (ms)
	2DH3 time slot	=	1.640 *	(1600/4/79)	*	31.6	=	262.40 (ms)
	2DH5 time slot	=	2.880 *	(1600/6/79)	*	31.6	=	307.20 (ms)

8-DPSK (3Mbps):

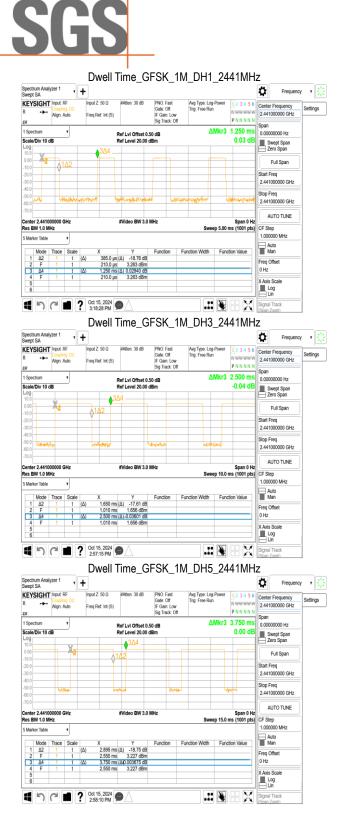
CH Mid	3DH1 time slot	=	0.385 *	(1600/2/79)	*	31.6 =	=	123.20 (ms)
	3DH3 time slot	=	1.640 *	(1600/4/79)	*	31.6 =	=	262.40 (ms)
	3DH5 time slot	=	2.880 *	(1600/6/79)	*	31.6 =	=	307.20 (ms)

A period time = 0.4 (s) * 79 = 31.6 (s)

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Dwell Time π/4DQPSK 2M DH1 2441MHz Spectrum Analyzer 1 Swept SA Frequency . · + Ö KEYSIGHT Input: RF put 7: 50 0 iiAtten: 30 dB PNO: Fas Center Frequency 2.441000000 GHz Settings + Freq Ref: Int (S) Gain: Low Track: Off PNNNN ΔMkr3 1.250 ms 0.00000000 Hz 1 Spectrum Ref Lvi Offset 0.50 dB Scale/Div 10 dB 0.01 dB Swept Span X Full Soan Start Freq 2,441000 Stop Freq 2.441000000 Gi AUTO TUNE #Video BW 3.0 MHz Center 2.44 Res BW 1.0 MHz Sweep 5.00 ms (1001 pts) CF Step 1.000000 MH Auto Man Mode Trace Scale Function Width Function Value Function X Y 385.0 μs (Δ)-0.09701 dB 640.0 μs 3.257 dBm 1.250 ms (Δ)0.008084 dB 640.0 μs 3.257 dBm (Δ) Δ2 Freq Offse (A) 0 Hz X Axis Scale C 15, 2024 .# 🖎 ΗX Signal Trac Dwell Time_m/4DQPSK_2M_DH3_2441MHz Spectrum Analyzer 1 Swept SA Ö Frequency . · + PNO: Fast Gate: Off IF Gain: Lo KEYSIGHT Input: RF Input 7: 50 0 #Atten: 30 dB Avg Type: Log-Power Trig: Free Run Center Frequency ttings Freq Ref: Int (S) 2.441000000 GHz Align: Aut PNNNN L)0 Sig Track: Off Span ΔMkr3 2.500 ms Ref Lvi Offset 0.50 dB Ref Level 20.00 dBm 0.00000000 Hz Scale/Div 10 dB 0.01 dB Swept Span <u>3</u>1∆2 ¥. Full Span Start Fred 2.441000000 GHz Stop Fred 2 441000000 GH AUTO TUNE deo BW 3.0 MH tes BW 1.0 M eep 10.0 ms (1001 pts) CF Step 1.000000 MH Marker Table Auto Man Function Function Width Function Value Mode <u>A2</u> F Trace Scale
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 3.257 dBm

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SGS

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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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