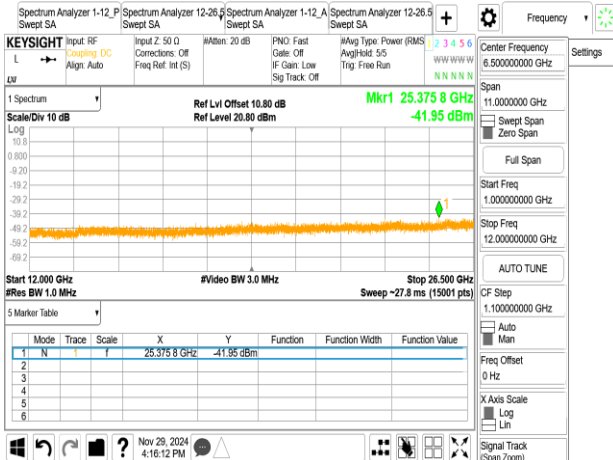
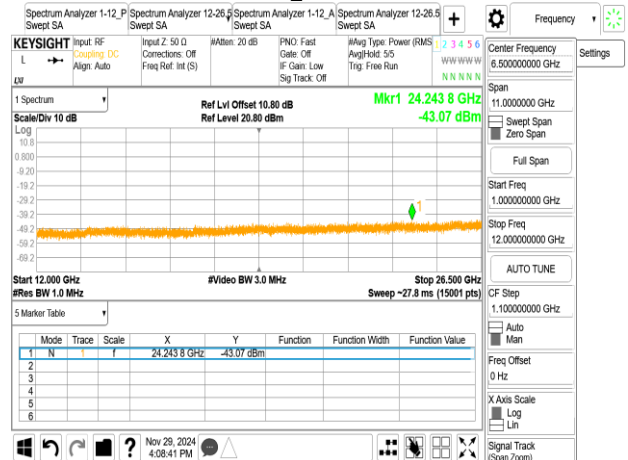


## Peak (12~26.5GHz)

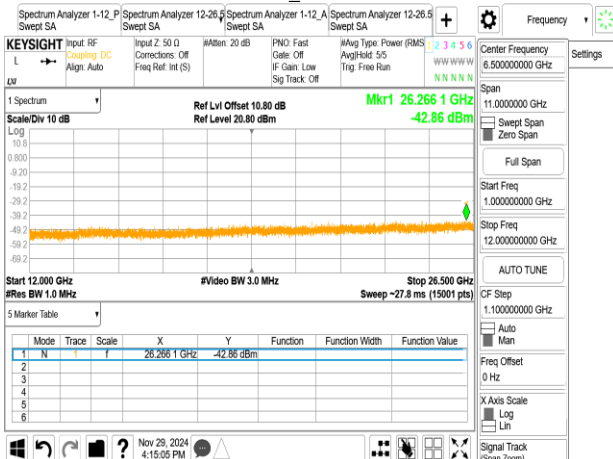
3DH5\_2402MHz



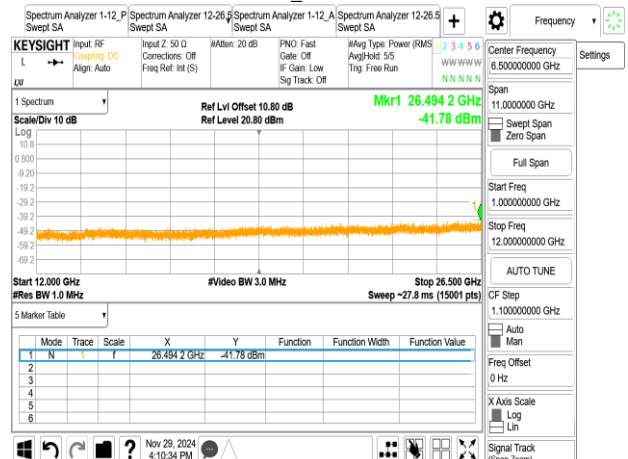
DH5\_2402MHz



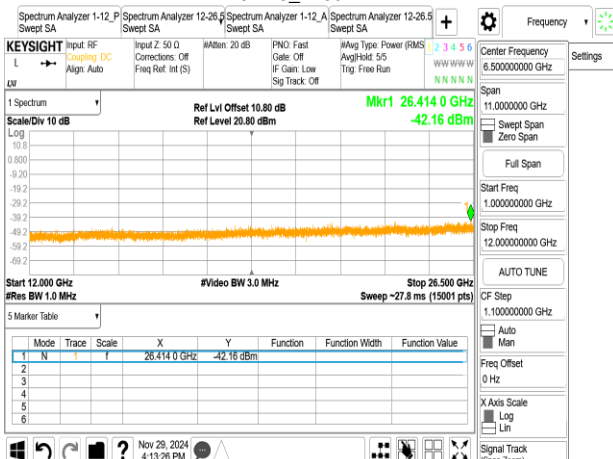
3DH5\_2441MHz



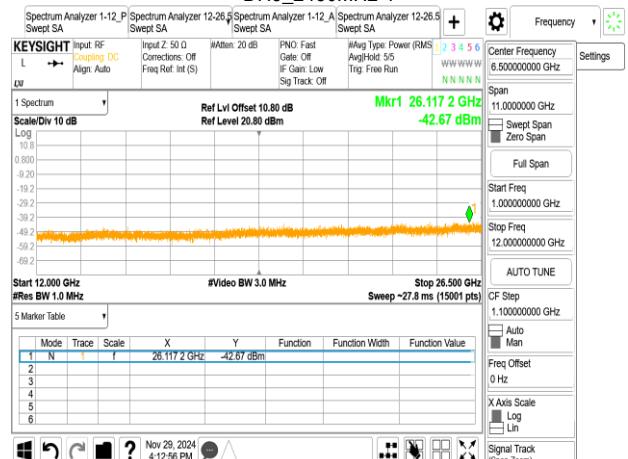
DH5\_2441MHz



3DH5\_2480MHz



DH5\_2480MHz-1



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## 12.6.5 Radiated Spurious Emission

Report Number :TERF2411003344E2

Test Site :SAC D

Operation Mode :EDR 3M

Test Date :2024-11-18

Test Frequency :2441 MHz

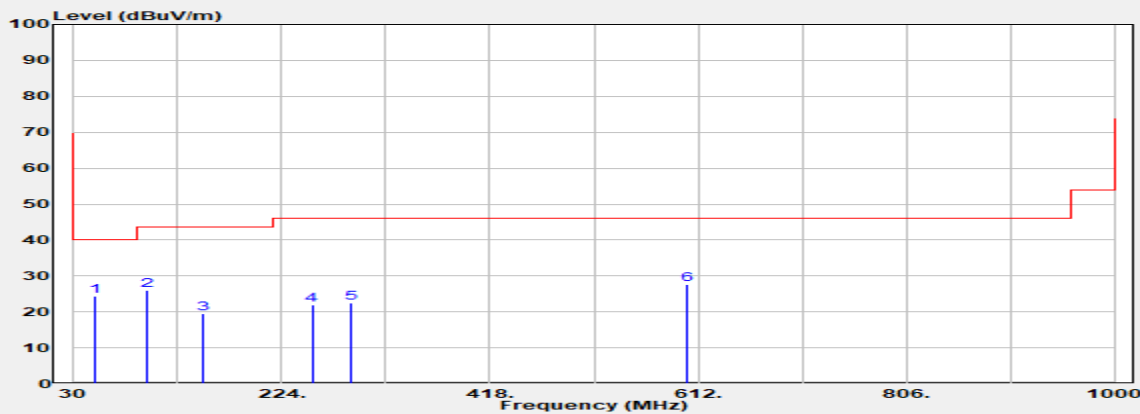
Temp./Humi. :22.5 °C/68%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Pony Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
49.400	Peak	40.96	-16.70	24.27	40.00	-15.73
97.900	Peak	48.07	-22.18	25.89	43.50	-17.61
150.280	Peak	35.49	-15.93	19.56	43.50	-23.94
252.130	Peak	38.98	-17.15	21.83	46.00	-24.17
288.020	Peak	38.40	-15.96	22.44	46.00	-23.56
602.300	Peak	36.73	-8.97	27.76	46.00	-18.24

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Report Number :TERF2411003344E2

Test Site :SAC D

Operation Mode :EDR 3M

Test Date :2024-11-18

Test Frequency :2441 MHz

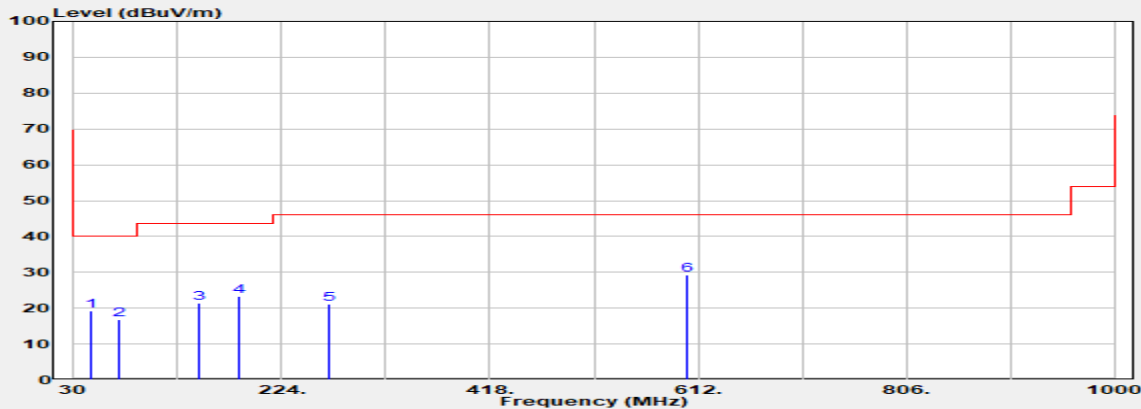
Temp./Humi. :22.5 °C/68%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Pony Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
46.490	Peak	36.11	-16.79	19.32	40.00	-20.68
71.710	Peak	36.79	-19.92	16.86	40.00	-23.14
147.370	Peak	37.54	-16.03	21.51	43.50	-21.99
183.260	Peak	41.68	-18.42	23.27	43.50	-20.23
267.650	Peak	38.27	-17.06	21.21	46.00	-24.79
602.300	Peak	38.31	-8.97	29.34	46.00	-16.66

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Report Number :TERF2411003344E2

Test Site :SAC D

Operation Mode :BR

Test Date :2024-11-15

Test Frequency :2402 MHz

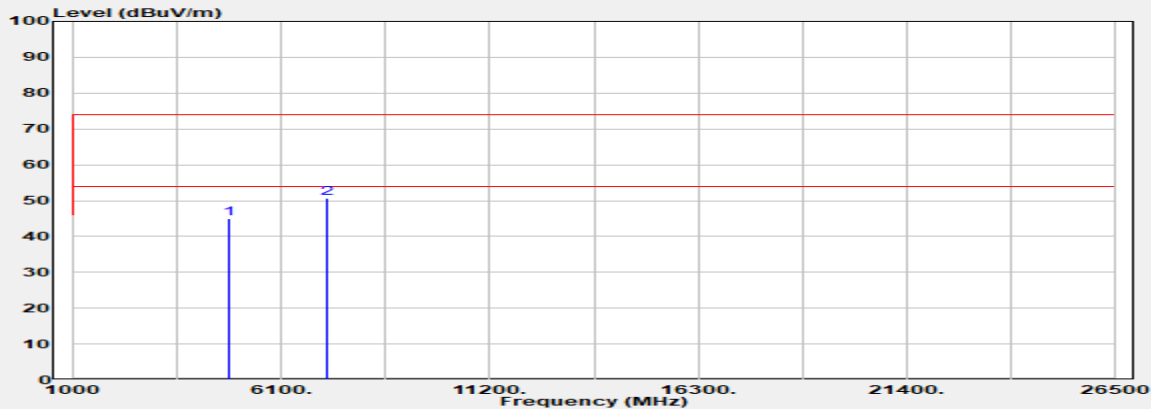
Temp./Humi. :21.7 °C/61%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Pony Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4804.000	Peak	35.54	9.48	45.02	74.00	-28.98
7206.000	Peak	33.93	16.80	50.73	74.00	-23.27

Freq. MHz	Detector Mode AV	Peak Actual FS (dB $\mu$ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4804.000	Average	45.02	-24.73	20.29	54.00	-33.71
7206.000	Average	50.73	-24.73	26.00	54.00	-28.00

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Report Number :TERF2411003344E2

Test Site :SAC D

Operation Mode :BR

Test Date :2024-11-15

Test Frequency :2402 MHz

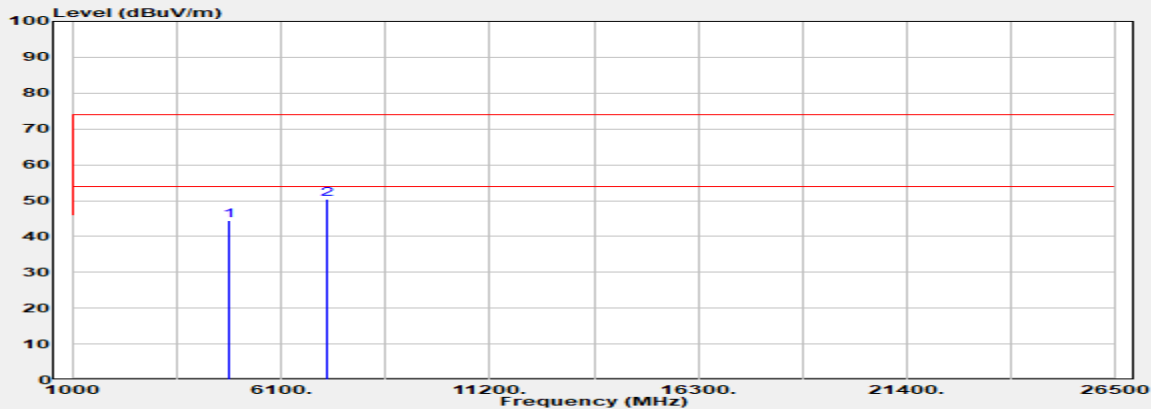
Temp./Humi. :21.7 °C/61%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Pony Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4804.000	Peak	34.90	9.48	44.38	74.00	-29.62
7206.000	Peak	33.62	16.80	50.42	74.00	-23.58

Freq. MHz	Detector Mode AV	Peak Actual FS (dB $\mu$ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4804.000	Average	44.38	-24.73	19.65	54.00	-34.35
7206.000	Average	50.42	-24.73	25.69	54.00	-28.31

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Report Number :TERF2411003344E2

Test Site :SAC D

Operation Mode :BR

Test Date :2024-11-15

Test Frequency :2441 MHz

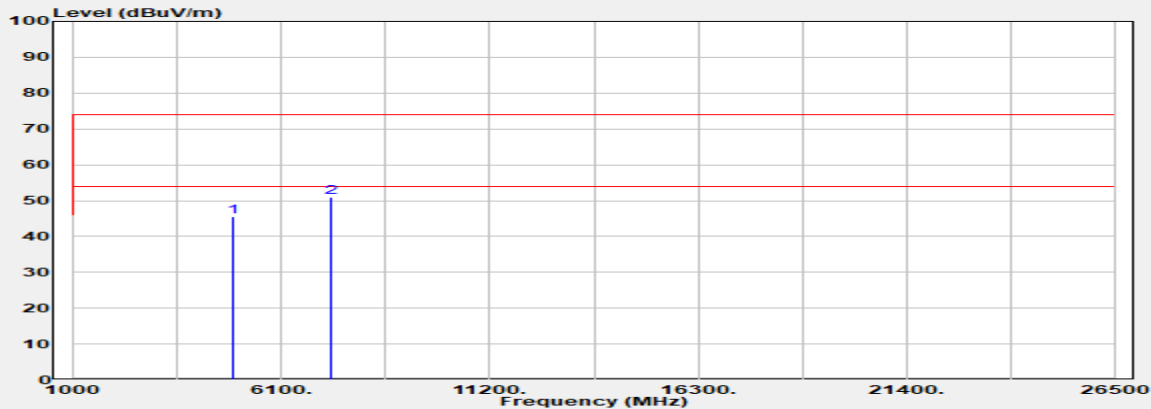
Temp./Humi. :21.7 °C/61%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Pony Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4882.000	Peak	36.01	9.54	45.55	74.00	-28.45
7323.000	Peak	33.45	17.44	50.89	74.00	-23.11

Freq. MHz	Detector Mode AV	Peak Actual FS (dB $\mu$ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4882.000	Average	45.55	-24.73	20.82	54.00	-33.18
7323.000	Average	50.89	-24.73	26.16	54.00	-27.84

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Report Number :TERF2411003344E2

Test Site :SAC D

Operation Mode :BR

Test Date :2024-11-15

Test Frequency :2441 MHz

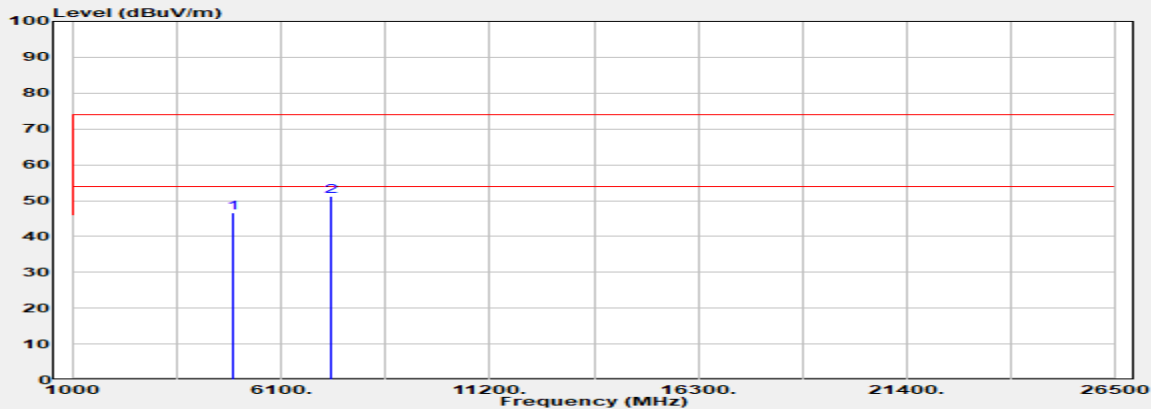
Temp./Humi. :21.7 °C/61%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Pony Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4882.000	Peak	37.13	9.54	46.68	74.00	-27.32
7323.000	Peak	33.84	17.44	51.27	74.00	-22.73

Freq. MHz	Detector Mode AV	Peak Actual FS (dB $\mu$ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4882.000	Average	46.68	-24.73	21.95	54.00	-32.05
7323.000	Average	51.27	-24.73	26.54	54.00	-27.46

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Report Number :TERF2411003344E2

Test Site :SAC D

Operation Mode :BR

Test Date :2024-11-15

Test Frequency :2480 MHz

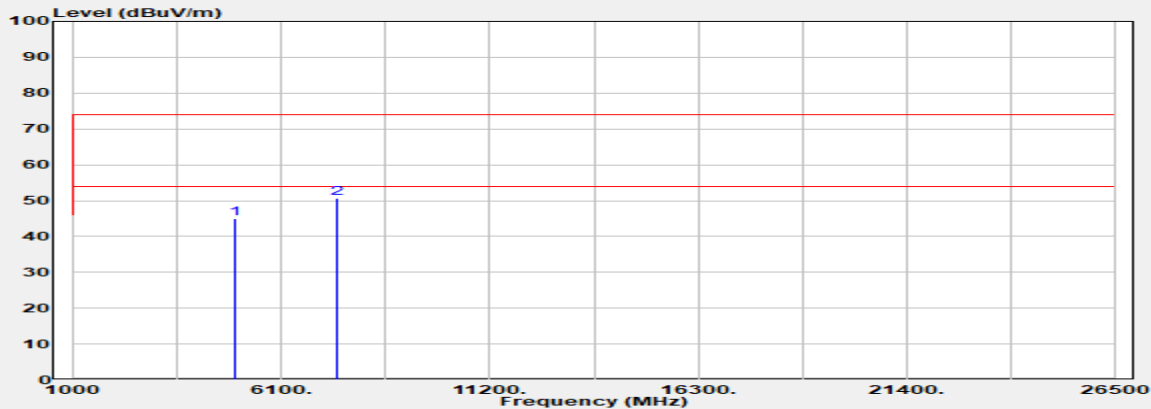
Temp./Humi. :21.7 °C/61%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Pony Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4960.000	Peak	34.97	9.92	44.89	74.00	-29.11
7440.000	Peak	32.86	17.73	50.59	74.00	-23.41

Freq. MHz	Detector Mode AV	Peak Actual FS (dB $\mu$ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4960.000	Average	44.89	-24.73	20.16	54.00	-33.84
7440.000	Average	50.59	-24.73	25.86	54.00	-28.14

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Report Number :TERF2411003344E2

Test Site :SAC D

Operation Mode :BR

Test Date :2024-11-15

Test Frequency :2480 MHz

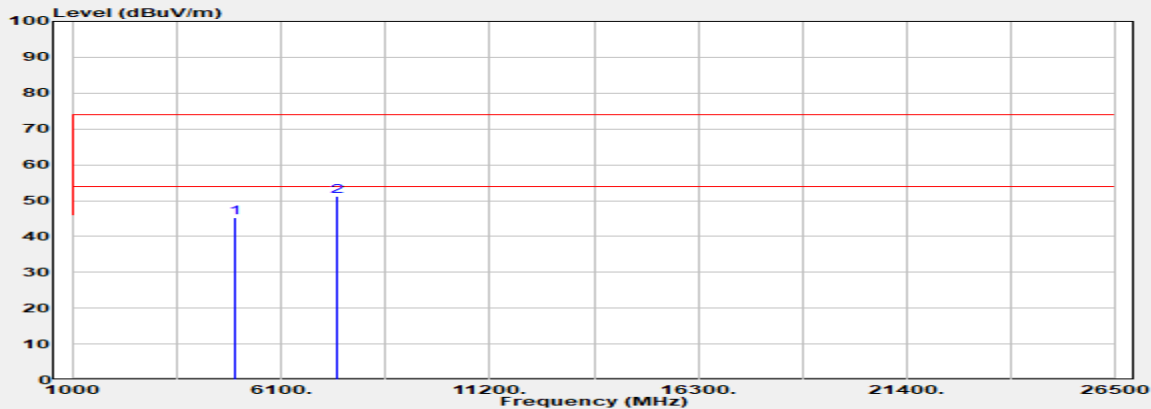
Temp./Humi. :21.7 °C/61%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Pony Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4960.000	Peak	35.23	9.92	45.14	74.00	-28.86
7440.000	Peak	33.55	17.73	51.28	74.00	-22.72

Freq. MHz	Detector Mode AV	Peak Actual FS (dB $\mu$ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4960.000	Average	45.14	-24.73	20.41	54.00	-33.59
7440.000	Average	51.28	-24.73	26.55	54.00	-27.45

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Report Number :TERF2411003344E2

Test Site :SAC D

Operation Mode :EDR 3M

Test Date :2024-11-15

Test Frequency :2402 MHz

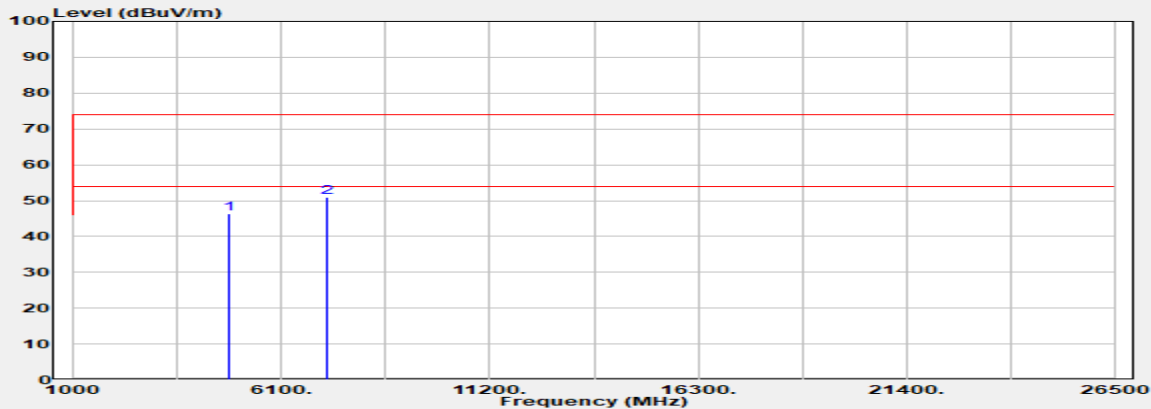
Temp./Humi. :21.7 °C/61%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Pony Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4804.000	Peak	36.97	9.48	46.45	74.00	-27.55
7206.000	Peak	34.19	16.80	50.99	74.00	-23.01

Freq. MHz	Detector Mode AV	Peak Actual FS (dB $\mu$ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4804.000	Average	46.45	-24.73	21.72	54.00	-32.28
7206.000	Average	50.99	-24.73	26.26	54.00	-27.74

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Report Number :TERF2411003344E2

Test Site :SAC D

Operation Mode :EDR 3M

Test Date :2024-11-15

Test Frequency :2402 MHz

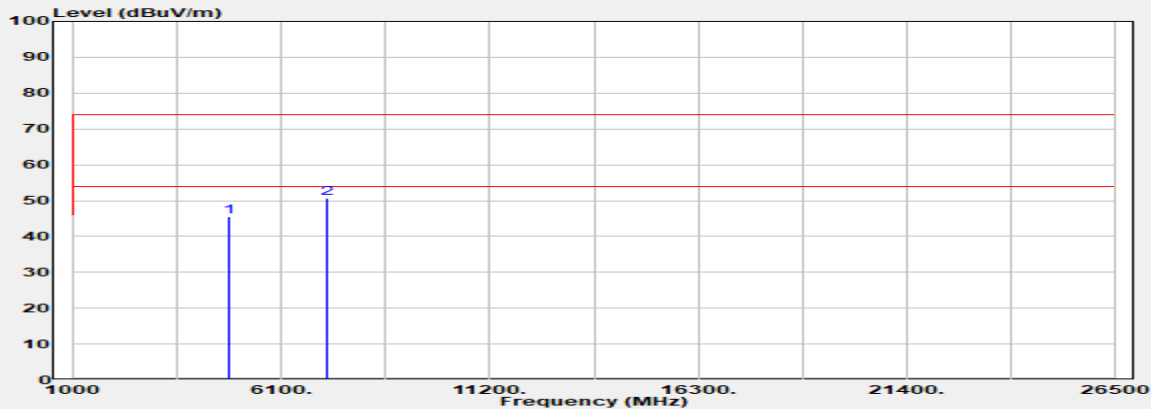
Temp./Humi. :21.7 °C/61%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Pony Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4804.000	Peak	36.18	9.48	45.66	74.00	-28.34
7206.000	Peak	33.96	16.80	50.76	74.00	-23.24

Freq. MHz	Detector Mode AV	Peak Actual FS (dB $\mu$ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4804.000	Average	45.66	-24.73	20.93	54.00	-33.07
7206.000	Average	50.76	-24.73	26.03	54.00	-27.97

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Report Number :TERF2411003344E2

Test Site :SAC D

Operation Mode :EDR 3M

Test Date :2024-11-15

Test Frequency :2441 MHz

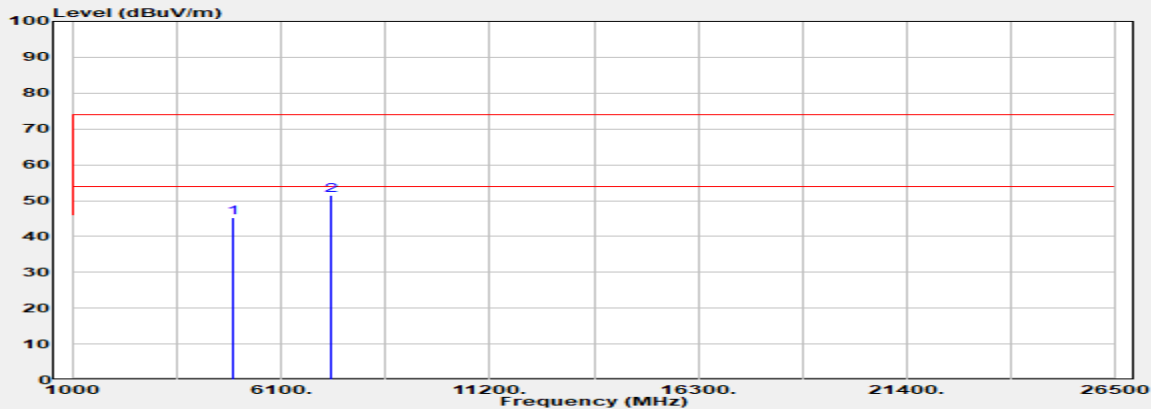
Temp./Humi. :21.7 °C/61%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Pony Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4882.000	Peak	35.75	9.54	45.29	74.00	-28.71
7323.000	Peak	34.08	17.44	51.52	74.00	-22.48

Freq. MHz	Detector Mode AV	Peak Actual FS (dB $\mu$ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4882.000	Average	45.29	-24.73	20.56	54.00	-33.44
7323.000	Average	51.52	-24.73	26.79	54.00	-27.21

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Report Number :TERF2411003344E2

Test Site :SAC D

Operation Mode :EDR 3M

Test Date :2024-11-15

Test Frequency :2441 MHz

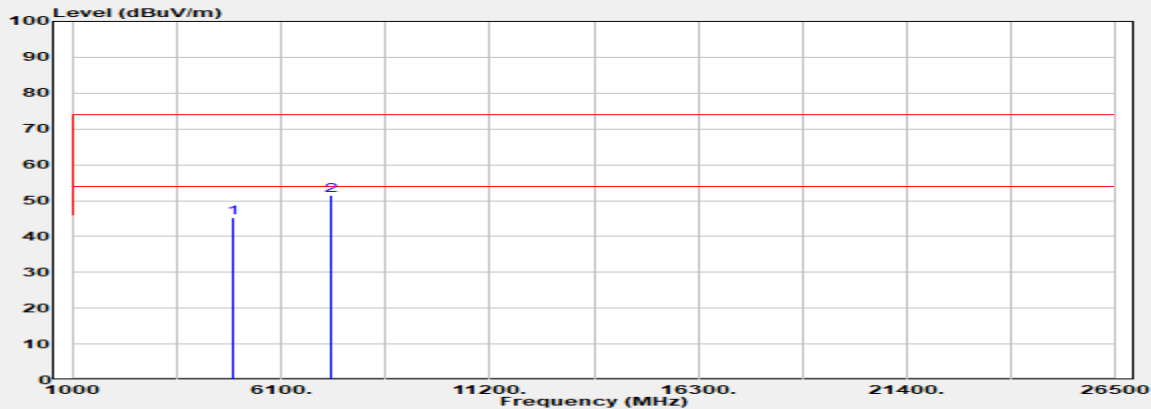
Temp./Humi. :21.7 °C/61%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Pony Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4882.000	Peak	35.68	9.54	45.22	74.00	-28.78
7323.000	Peak	34.15	17.44	51.59	74.00	-22.41

Freq. MHz	Detector Mode AV	Peak Actual FS (dB $\mu$ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4882.000	Average	45.22	-24.73	20.49	54.00	-33.51
7323.000	Average	51.59	-24.73	26.86	54.00	-27.14

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Report Number :TERF2411003344E2

Test Site :SAC D

Operation Mode :EDR 3M

Test Date :2024-11-15

Test Frequency :2480 MHz

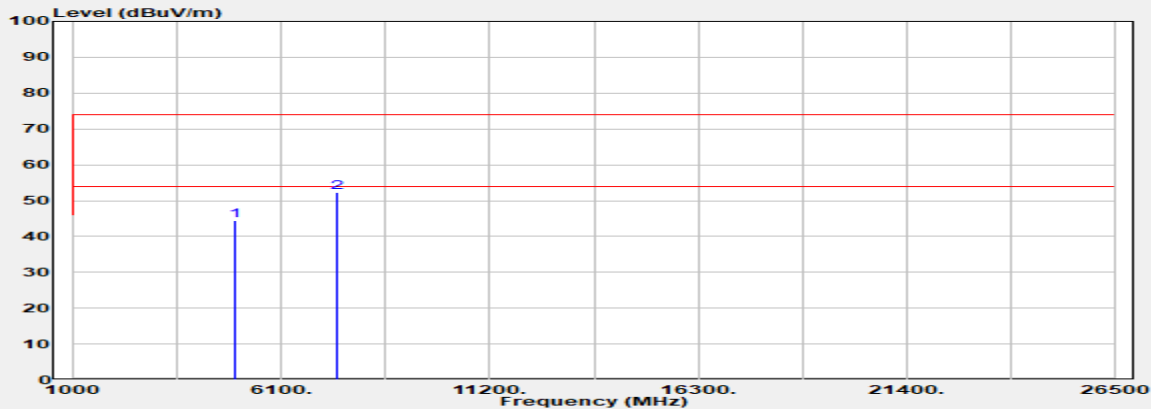
Temp./Humi. :21.7 °C/61%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Pony Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4960.000	Peak	34.58	9.92	44.50	74.00	-29.50
7440.000	Peak	34.55	17.73	52.28	74.00	-21.72

Freq. MHz	Detector Mode AV	Peak Actual FS (dB $\mu$ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4960.000	Average	44.50	-24.73	19.77	54.00	-34.23
7440.000	Average	52.28	-24.73	27.55	54.00	-26.45

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Report Number :TERF2411003344E2

Test Site :SAC D

Operation Mode :EDR 3M

Test Date :2024-11-15

Test Frequency :2480 MHz

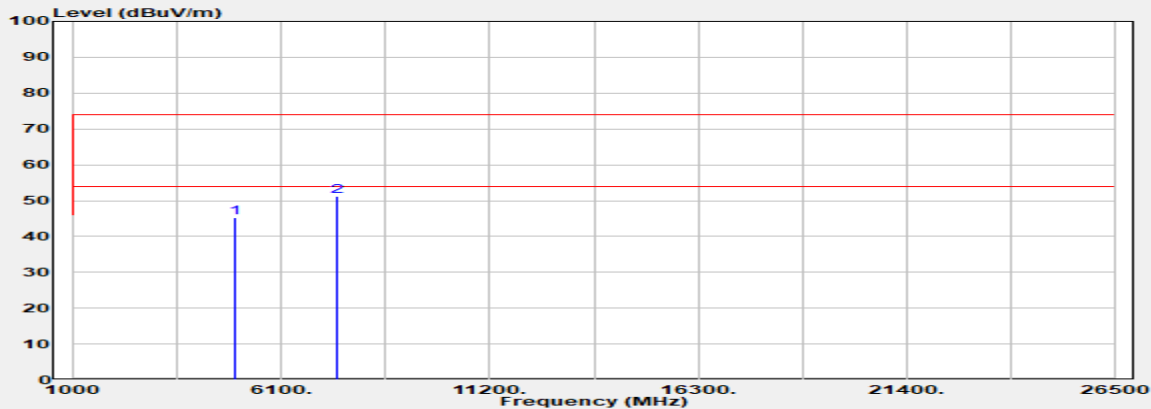
Temp./Humi. :21.7 °C/61%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Pony Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4960.000	Peak	35.24	9.92	45.16	74.00	-28.84
7440.000	Peak	33.58	17.73	51.31	74.00	-22.69

Freq. MHz	Detector Mode AV	Peak Actual FS (dB $\mu$ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4960.000	Average	45.16	-24.73	20.43	54.00	-33.57
7440.000	Average	51.31	-24.73	26.58	54.00	-27.42

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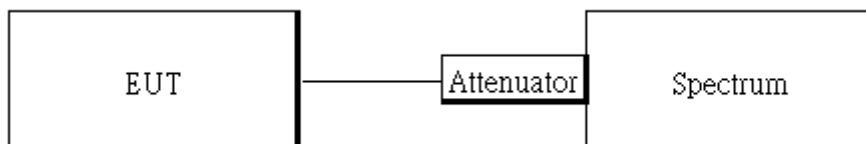
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## 13 NUMBER OF HOPPING FREQUENCY

### 13.1 Standard Applicable

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 C63.10:2020.
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

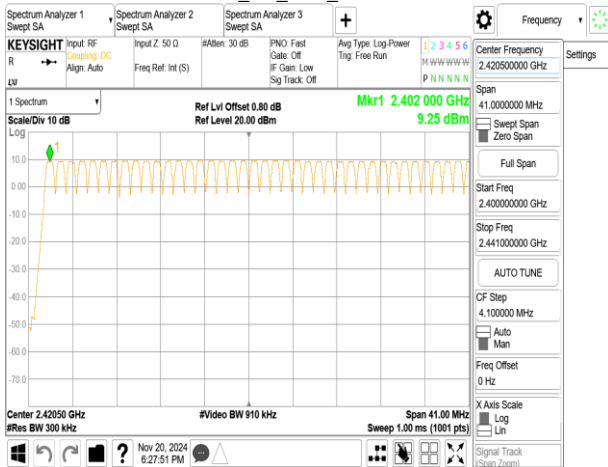
	Channel Number	Limit
2.4 GHz – 2.441 GHz	40	>15
2.441 GHz – 2.4835 GHz	39	
2.4 GHz ~2.4835 GHz	(40+39) = 79	

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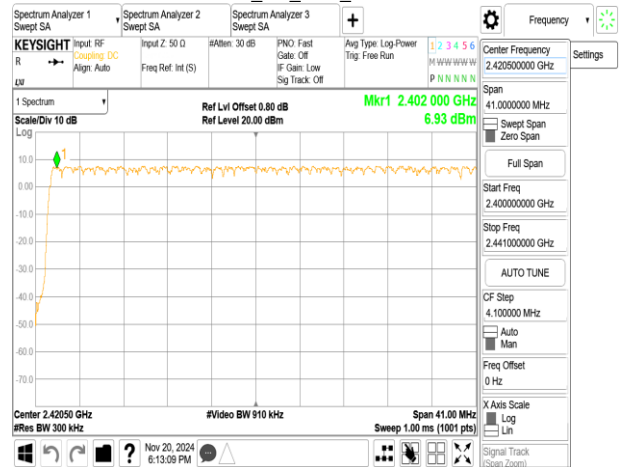
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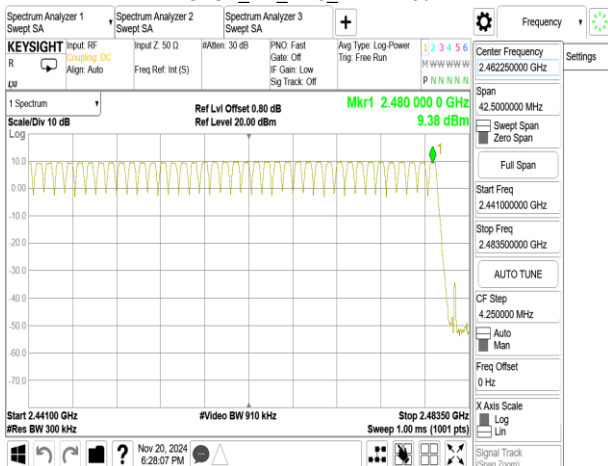
GFSK\_1M\_DH5\_2400-2441



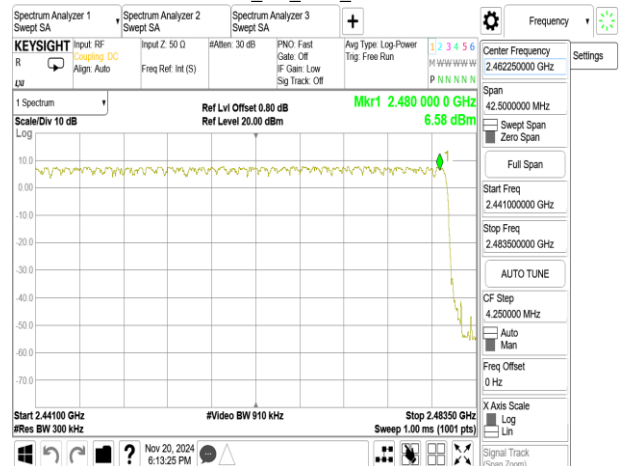
8DPSK\_3M\_DH5\_2400-2441



GFSK\_1M\_DH5\_2441-2480



8DPSK\_3M\_DH5\_2441-2480



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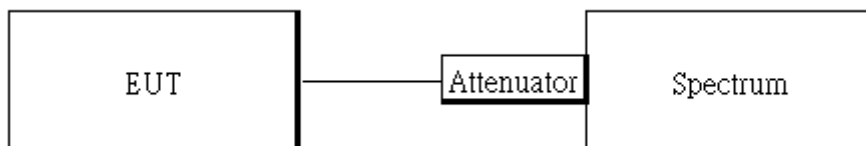
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## 14 TIME OF OCCUPANCY (DWELL TIME)

### 14.1 Standard Applicable

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 C63.10:2020.
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 = 5~15ms.
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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台灣檢驗科技股份有限公司

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## 14.4 Measurement Result

### GFSK (1Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)
39	DH1	121.60	400
	DH3	260.80	400
	DH5	307.20	400

### $\pi/4$ DQPSK (2Mbps)

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

### 8-DPSK (3Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)
39	3DH1	121.60	400
	3DH3	260.80	400
	3DH5	307.20	400

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### GFSK (1Mbps):

CH Mid	DH1 time slot	=	0.380	*	(1600/2/79)	*	31.6	=	121.60 (ms)
	DH3 time slot	=	1.630	*	(1600/4/79)	*	31.6	=	260.80 (ms)
	DH5 time slot	=	2.880	*	(1600/6/79)	*	31.6	=	307.20 (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	=	0.380	*	(1600/2/79)	*	31.6	=	121.60 (ms)
	3DH3 time slot	=	1.630	*	(1600/4/79)	*	31.6	=	260.80 (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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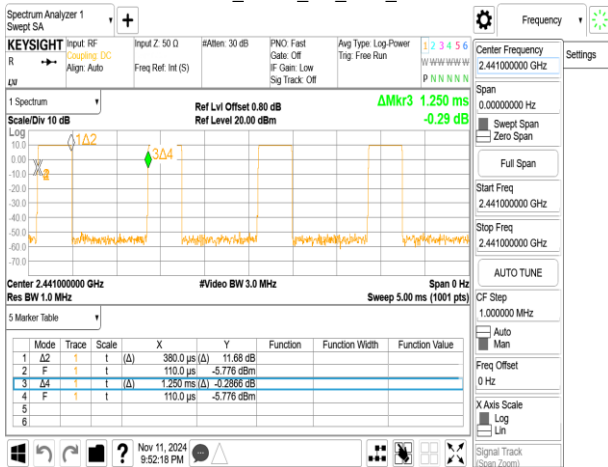
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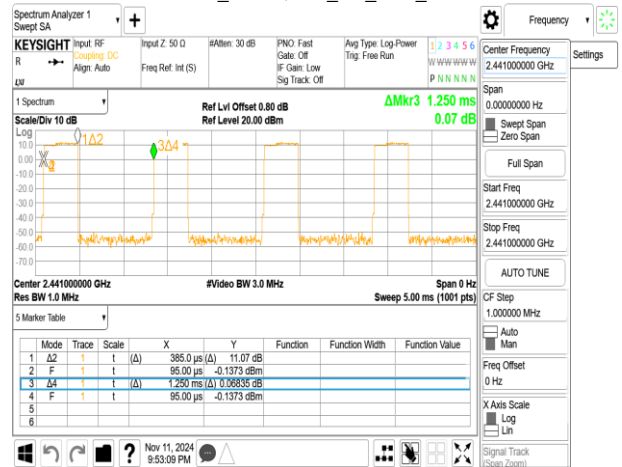
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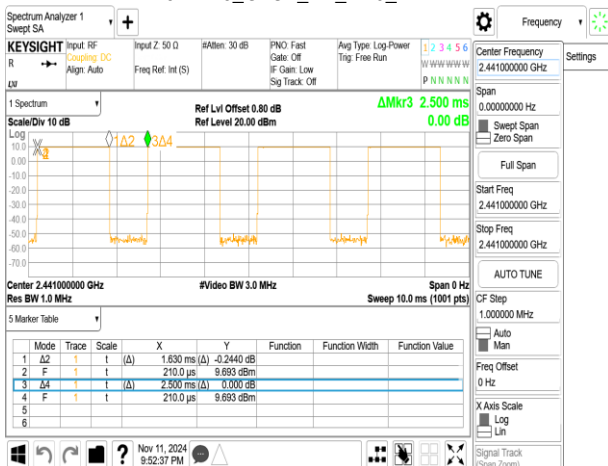
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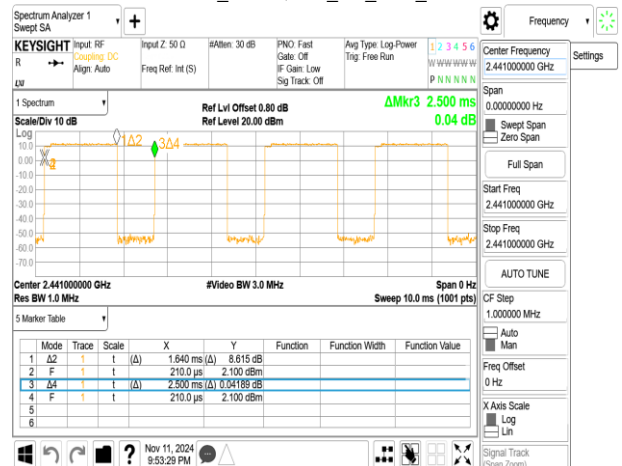
Dwell Time\_π/4QPSK\_2M\_DH1\_2441MHz



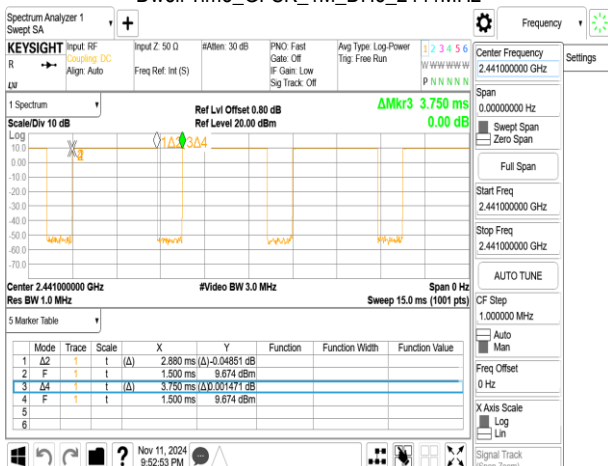
Dwell Time\_GFSK\_1M\_DH3\_2441MHz



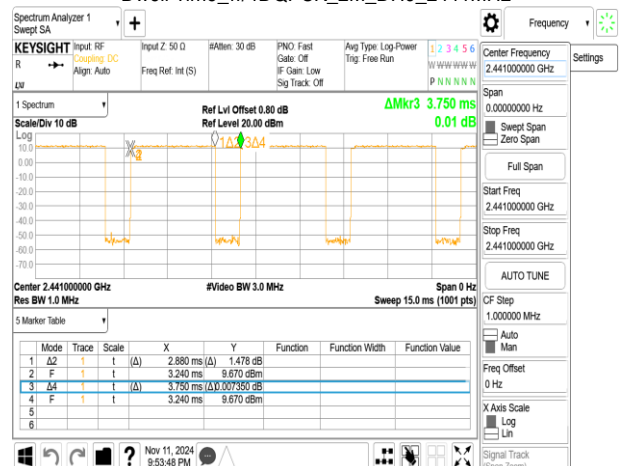
Dwell Time\_π/4QPSK\_2M\_DH3\_2441MHz



Dwell Time\_GFSK\_1M\_DH5\_2441MHz



Dwell Time\_π/4QPSK\_2M\_DH5\_2441MHz

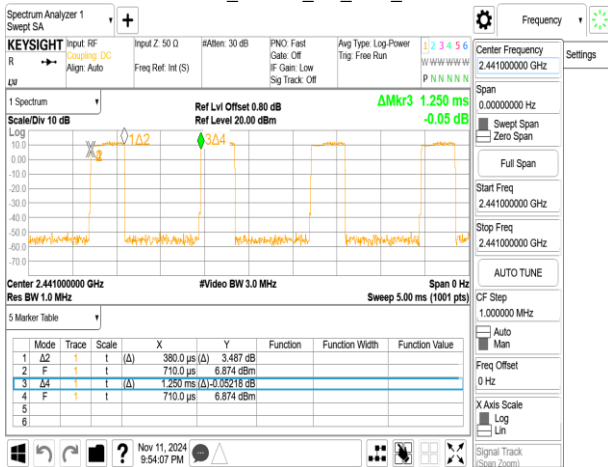


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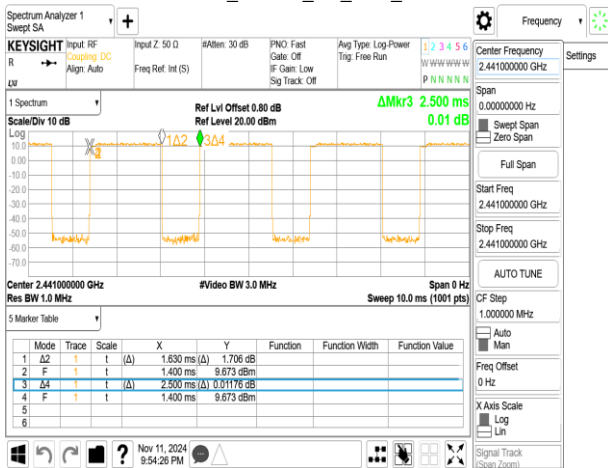
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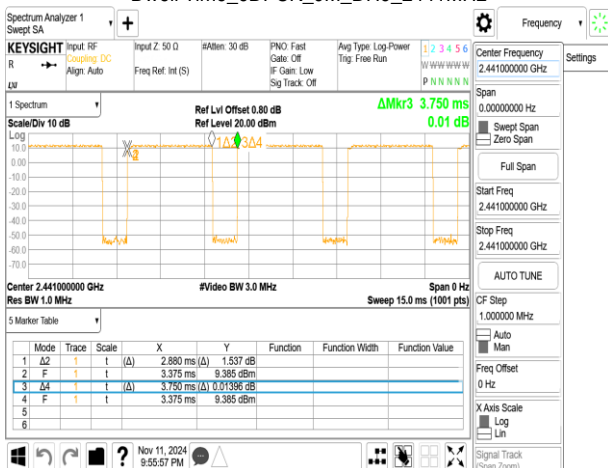
Dwell Time\_8DPSK\_3M\_DH1\_2441MHz



Dwell Time\_8DPSK\_3M\_DH3\_2441MHz



Dwell Time\_8DPSK\_3M\_DH5\_2441MHz



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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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