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ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT





Applicant: DIGIMAX INNOVATIVE PRODUCTS LTD.

2F., No.196, Sec.2, Zhongxing Rd., Xindian Dist.

Manufacturer: Digisine Energytech Co. Ltd.

2F., No.196, Sec.2, Zhongxing Rd., Xindian Dist. New Taipei

Product Name: Hearing Aid

Brand Name: Mimitakara, Digisine, Digimax

Model No.: DP-6ENX, UP-6ENX

Model Difference: For marketing segmentation

TERF2302000272E2 **Report Number:**

FCC ID 2BBAZ-6ENX

Date of EUT Received: February 10, 2023

Date of Test: February 23, 2023~March 15, 2023

Issue Date: June 7, 2023

Approved By

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.247.

The results of this report relate only to the sample identified in this report.

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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Revision History							
Report Number	Revision	Description	Issue Date	Revised By	Remark		
TERF2302000272E2	00	Original	June 7, 2023	Celery Wei			

Note:

- 1 . The remark "*" indicates modification of the report upon requests from certification body.
- 2 · Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received. And are assessed as electrically identical in RF characteristics, therefore, no further assessment required for the variant(s).

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GENERAL INFORMATION

Product Description

Product Name:	Hearing Aid
Brand Name:	Mimitakara, Digisine, Digimax
Model No.:	DP-6ENX, UP-6ENX
Model Difference:	For marketing segmentation
Hardware Version:	V1
Firmware Version:	V1
EUT Series No.:	TE_SP_20230201116
Power Supply:	3.66Vdc from battery
Test Software (Name/Version)	AWBTRDLAB 1.0.9.22

1.2 **RF Specification**

Radio Technology:	BT BR+EDR
Channel number:	79 channels
Modulation type:	GFSK + π/4DQPSK + 8DPSK
Transmit Power:	11.29 dBm
Frequency Range:	2.402GHz – 2.480GHz
Dwell Time:	≦ 0.4s

1.3 **Antenna Designation**

Antenna	Freq.	Peak Antenna
Type	(MHz)	Gain (dBi)
PCB	2402– 2480	2.93

Note: Antenna information is provided by the applicant.

1.4 **Test Methodology of Applied Standards**

FCC Part 15, Subpart C §15.247 FCC KDB 558074 D01 15.247 Meas. Guidance v05r02 ANSI C63.10:2013

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1.5 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designa- tion number	IC CAB identifier			
		SAC 1					
		SAC 2					
		SAC 3					
	No 124 Wu Kung Bood New Toingi	Conduction 1					
	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New	Conducted 1	TW0027				
	Taipei City, Taiwan.	Conducted 2	1 440027				
	Taiper City, Taiwan.	Conducted 3					
		Conducted 4					
		Conducted 5					
SGS Taiwan Ltd.		Conducted 6					
Central RF Lab.		Conduction C	TW3702				
(TAF code 3702)		SAC C					
		SAC D					
		SAC G					
	No.2, Keji 1st Rd., Guishan District,	Conducted A					
	Taoyuan City, Taiwan 333	Conducted B	TW0028				
	ladyuan City, Taiwan 555	Conducted C					
		Conducted D					
		Conducted E					
		Conducted F					
		Conducted G					

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

1.6 Special Accessories

There is no special accessory used while test was conducted.

1.7 Equipment Modifications

There was no modification incorporated into the EUT.

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SYSTEM TEST CONFIGURATION

2.1 **EUT Configuration**

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 **EUT Exercise**

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

Test Procedure 2.3

2.3.1 **Conducted Emissions**

The EUT is a placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 **Conducted Test (RF)**

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer with attenuator to protect the instrumentation. If a second antenna port is available, it is tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output characteristics as the fully tested port.

2.3.3 Radiated Emissions

The EUT is a placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and 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.

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2.4 Measurement Results Explanation Example

2.4.1 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*6m*6m semi-ane choic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

2.4.2 For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

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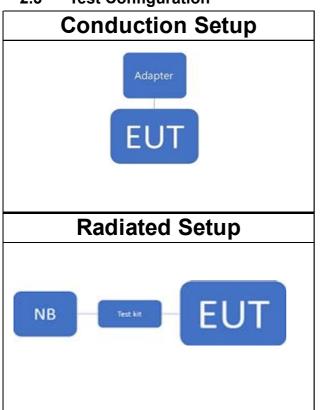
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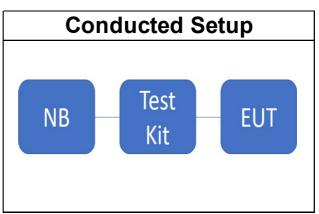
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Test Configuration





2.6 Control Unit(s)

	AC Power-Line Conducted Emission Test Site: Conduction C						
EQUIPMENT TYPE	QUIPMENT TYPE MFR MODEL NUMBER SERIAL NUMBER LAST CAL. CAL DUE.						
USB Cable	МІ	SJX10ZM	N/A	N/A	N/A		
Adapter	Lapo	WT-02CA	4712966931002	N/A	N/A		
	C	onducted Emission	Test Site: Conducted	F			
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.		
CP2104 USB TO TTL	YouXin Electronic	CNT-0038	TE_SP_20230201117	N/A	N/A		
Notebook	Lenovo	L480	P0002332	N/A	N/A		

Radiated Emission Test Site: SAC D						
EQUIPMENT TYPE MFR MODEL NUMBER SERIAL NUMBER LAST CAL. CAL DUE.						
CP2104 USB TO TTL	YouXin Electronic	CNT-0038	TE_SP_20230201117	N.C.R	N.C.R	
Notebook Lenovo L480 P0002332 N.C.R N.C.R						

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3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207(a)	AC Power Line Conducted Emission	Compliant
§15.247(b)(1)	Peak Output Power	Compliant
§15.247(a)(1)	Emission Bandwidth	Compliant
§15.205 §15.209 §15.247(d)	Conducted & Radiated Band Edge and Spurious Emission	Compliant
§15.247(a)(1)	Frequency Separation	Compliant
§15.247(a)(1)(iii)	Number of hopping frequency Time of Occupancy	Compliant
§15.203	Antenna Requirement	Compliant

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DESCRIPTION OF TEST MODES

Operated in 2400 ~ 2483.5MHz Band

79 channels are provided for Bluetooth

ITEM FREQUENCY ITEM FREQUENCY ITEM FREQUENCY ITEM FREQUENCY 1 2402 MHz 21 2422 MHz 41 2442 MHz 71 2462 MHz 2 2403 MHz 22 2423 MHz 42 2443 MHz 72 2463 MHz 3 2404 MHz 23 2424 MHz 43 2444 MHz 73 2464 MHz 4 2405 MHz 24 2425 MHz 44 2445 MHz 74 2465 MHz 5 2406 MHz 25 2426 MHz 45 2446 MHz 75 2466 MHz 6 2407 MHz 26 2427 MHz 46 2447 MHz 76 2467 MHz 7 2408 MHz 27 2428 MHz 47 2448 MHz 77 2468 MHz 8 2409 MHz 28 2429 MHz 48 2449 MHz 78 2469 MHz 9 2410 MHz 30 2431 MHz 50 2451 MHz 70 2471 MHz		onanneis are p						1
2 2403 MHz 22 2423 MHz 42 2443 MHz 72 2463 MHz 3 2404 MHz 23 2424 MHz 43 2444 MHz 73 2464 MHz 4 2405 MHz 24 2425 MHz 44 2445 MHz 74 2465 MHz 5 2406 MHz 25 2426 MHz 45 2446 MHz 75 2466 MHz 6 2407 MHz 26 2427 MHz 46 2447 MHz 76 2467 MHz 7 2408 MHz 27 2428 MHz 47 2448 MHz 77 2468 MHz 8 2409 MHz 28 2429 MHz 48 2449 MHz 78 2469 MHz 9 2410 MHz 29 2430 MHz 49 2450 MHz 79 2470 MHz 10 2411 MHz 30 2431 MHz 50 2451 MHz 70 2471 MHz 11 2412 MHz 31 2432 MHz 51 2452 MHz 71 2472 MHz 12 2413 MHz 32 2433 MHz 52 2453 MHz 72 2473 MHz<	ITEM	FREQUENCY	ITEM	FREQUENCY	ITEM	FREQUENCY	ITEM	FREQUENCY
3 2404 MHz 23 2424 MHz 43 2444 MHz 73 2464 MHz 4 2405 MHz 24 2425 MHz 44 2445 MHz 74 2465 MHz 5 2406 MHz 25 2426 MHz 45 2446 MHz 75 2466 MHz 6 2407 MHz 26 2427 MHz 46 2447 MHz 76 2467 MHz 7 2408 MHz 27 2428 MHz 47 2448 MHz 77 2468 MHz 8 2409 MHz 28 2429 MHz 48 2449 MHz 78 2469 MHz 9 2410 MHz 29 2430 MHz 49 2450 MHz 79 2470 MHz 10 2411 MHz 30 2431 MHz 50 2451 MHz 70 2471 MHz 11 2412 MHz 31 2432 MHz 51 2452 MHz 71 2472 MHz 12 2413 MHz 32 2433 MHz 52 2453 MHz 72 2473 MHz	1	2402 MHz	21	2422 MHz	41	2442 MHz	71	2462 MHz
4 2405 MHz 24 2425 MHz 44 2445 MHz 74 2465 MHz 5 2406 MHz 25 2426 MHz 45 2446 MHz 75 2466 MHz 6 2407 MHz 26 2427 MHz 46 2447 MHz 76 2467 MHz 7 2408 MHz 27 2428 MHz 47 2448 MHz 77 2468 MHz 8 2409 MHz 28 2429 MHz 48 2449 MHz 78 2469 MHz 9 2410 MHz 29 2430 MHz 49 2450 MHz 79 2470 MHz 10 2411 MHz 30 2431 MHz 50 2451 MHz 70 2471 MHz 11 2412 MHz 31 2432 MHz 51 2452 MHz 71 2472 MHz 12 2413 MHz 32 2433 MHz 52 2453 MHz 72 2473 MHz 13 2414 MHz 33 2434 MHz 53 2454 MHz 73 2474 MHz <td< td=""><td>2</td><td>2403 MHz</td><td>22</td><td>2423 MHz</td><td>42</td><td>2443 MHz</td><td>72</td><td>2463 MHz</td></td<>	2	2403 MHz	22	2423 MHz	42	2443 MHz	72	2463 MHz
5 2406 MHz 25 2426 MHz 45 2446 MHz 75 2466 MHz 6 2407 MHz 26 2427 MHz 46 2447 MHz 76 2467 MHz 7 2408 MHz 27 2428 MHz 47 2448 MHz 77 2468 MHz 8 2409 MHz 28 2429 MHz 48 2449 MHz 78 2469 MHz 9 2410 MHz 29 2430 MHz 49 2450 MHz 79 2470 MHz 10 2411 MHz 30 2431 MHz 50 2451 MHz 70 2471 MHz 11 2412 MHz 31 2432 MHz 51 2452 MHz 71 2472 MHz 12 2413 MHz 32 2433 MHz 52 2453 MHz 72 2473 MHz 13 2414 MHz 33 2434 MHz 53 2454 MHz 73 2474 MHz 14 2415 MHz 34 2435 MHz 54 2455 MHz 74 2475 MHz <t< td=""><td>3</td><td>2404 MHz</td><td>23</td><td>2424 MHz</td><td>43</td><td>2444 MHz</td><td>73</td><td>2464 MHz</td></t<>	3	2404 MHz	23	2424 MHz	43	2444 MHz	73	2464 MHz
6 2407 MHz 26 2427 MHz 46 2447 MHz 76 2467 MHz 7 2408 MHz 27 2428 MHz 47 2448 MHz 77 2468 MHz 8 2409 MHz 28 2429 MHz 48 2449 MHz 78 2469 MHz 9 2410 MHz 29 2430 MHz 49 2450 MHz 79 2470 MHz 10 2411 MHz 30 2431 MHz 50 2451 MHz 70 2471 MHz 11 2412 MHz 31 2432 MHz 51 2452 MHz 71 2472 MHz 12 2413 MHz 32 2433 MHz 52 2453 MHz 72 2473 MHz 13 2414 MHz 33 2434 MHz 53 2454 MHz 73 2474 MHz 14 2415 MHz 34 2435 MHz 54 2455 MHz 74 2475 MHz 15 2416 MHz 35 2436 MHz 55 2456 MHz 75 2476 MHz <	4	2405 MHz	24	2425 MHz	44	2445 MHz	74	2465 MHz
7 2408 MHz 27 2428 MHz 47 2448 MHz 77 2468 MHz 8 2409 MHz 28 2429 MHz 48 2449 MHz 78 2469 MHz 9 2410 MHz 29 2430 MHz 49 2450 MHz 79 2470 MHz 10 2411 MHz 30 2431 MHz 50 2451 MHz 70 2471 MHz 11 2412 MHz 31 2432 MHz 51 2452 MHz 71 2472 MHz 12 2413 MHz 32 2433 MHz 52 2453 MHz 72 2473 MHz 13 2414 MHz 33 2434 MHz 53 2454 MHz 73 2474 MHz 14 2415 MHz 34 2435 MHz 54 2455 MHz 74 2475 MHz 15 2416 MHz 35 2436 MHz 55 2456 MHz 75 2476 MHz 16 2417 MHz 36 2437 MHz 56 2457 MHz 76 2477 MHz	5	2406 MHz	25	2426 MHz	45	2446 MHz	75	2466 MHz
8 2409 MHz 28 2429 MHz 48 2449 MHz 78 2469 MHz 9 2410 MHz 29 2430 MHz 49 2450 MHz 79 2470 MHz 10 2411 MHz 30 2431 MHz 50 2451 MHz 70 2471 MHz 11 2412 MHz 31 2432 MHz 51 2452 MHz 71 2472 MHz 12 2413 MHz 32 2433 MHz 52 2453 MHz 72 2473 MHz 13 2414 MHz 33 2434 MHz 53 2454 MHz 73 2474 MHz 14 2415 MHz 34 2435 MHz 54 2455 MHz 74 2475 MHz 15 2416 MHz 35 2436 MHz 55 2456 MHz 75 2476 MHz 16 2417 MHz 36 2437 MHz 56 2457 MHz 76 2477 MHz 17 2418 MHz 37 2438 MHz 57 2458 MHz 77 2478 MHz 18 2419 MHz 38 2439 MHz 58 2459 MHz 78 247	6	2407 MHz	26	2427 MHz	46	2447 MHz	76	2467 MHz
9 2410 MHz 29 2430 MHz 49 2450 MHz 79 2470 MHz 10 2411 MHz 30 2431 MHz 50 2451 MHz 70 2471 MHz 11 2412 MHz 31 2432 MHz 51 2452 MHz 71 2472 MHz 12 2413 MHz 32 2433 MHz 52 2453 MHz 72 2473 MHz 13 2414 MHz 33 2434 MHz 53 2454 MHz 73 2474 MHz 14 2415 MHz 34 2435 MHz 54 2455 MHz 74 2475 MHz 15 2416 MHz 35 2436 MHz 55 2456 MHz 75 2476 MHz 16 2417 MHz 36 2437 MHz 56 2457 MHz 76 2477 MHz 17 2418 MHz 37 2438 MHz 57 2458 MHz 77 2478 MHz 18 2419 MHz 38 2439 MHz 58 2459 MHz 78 2479 MHz	7	2408 MHz	27	2428 MHz	47	2448 MHz	77	2468 MHz
10 2411 MHz 30 2431 MHz 50 2451 MHz 70 2471 MHz 11 2412 MHz 31 2432 MHz 51 2452 MHz 71 2472 MHz 12 2413 MHz 32 2433 MHz 52 2453 MHz 72 2473 MHz 13 2414 MHz 33 2434 MHz 53 2454 MHz 73 2474 MHz 14 2415 MHz 34 2435 MHz 54 2455 MHz 74 2475 MHz 15 2416 MHz 35 2436 MHz 55 2456 MHz 75 2476 MHz 16 2417 MHz 36 2437 MHz 56 2457 MHz 76 2477 MHz 17 2418 MHz 37 2438 MHz 57 2458 MHz 77 2478 MHz 18 2419 MHz 38 2439 MHz 58 2459 MHz 78 2479 MHz 19 2420 MHz 39 2440 MHz 59 2460 MHz 79 2480 MHz	8	2409 MHz	28	2429 MHz	48	2449 MHz	78	2469 MHz
11 2412 MHz 31 2432 MHz 51 2452 MHz 71 2472 MHz 12 2413 MHz 32 2433 MHz 52 2453 MHz 72 2473 MHz 13 2414 MHz 33 2434 MHz 53 2454 MHz 73 2474 MHz 14 2415 MHz 34 2435 MHz 54 2455 MHz 74 2475 MHz 15 2416 MHz 35 2436 MHz 55 2456 MHz 75 2476 MHz 16 2417 MHz 36 2437 MHz 56 2457 MHz 76 2477 MHz 17 2418 MHz 37 2438 MHz 57 2458 MHz 77 2478 MHz 18 2419 MHz 38 2439 MHz 58 2459 MHz 78 2479 MHz 19 2420 MHz 39 2440 MHz 59 2460 MHz 79 2480 MHz	9	2410 MHz	29	2430 MHz	49	2450 MHz	79	2470 MHz
12 2413 MHz 32 2433 MHz 52 2453 MHz 72 2473 MHz 13 2414 MHz 33 2434 MHz 53 2454 MHz 73 2474 MHz 14 2415 MHz 34 2435 MHz 54 2455 MHz 74 2475 MHz 15 2416 MHz 35 2436 MHz 55 2456 MHz 75 2476 MHz 16 2417 MHz 36 2437 MHz 56 2457 MHz 76 2477 MHz 17 2418 MHz 37 2438 MHz 57 2458 MHz 77 2478 MHz 18 2419 MHz 38 2439 MHz 58 2459 MHz 78 2479 MHz 19 2420 MHz 39 2440 MHz 59 2460 MHz 79 2480 MHz	10	2411 MHz	30	2431 MHz	50	2451 MHz	70	2471 MHz
13 2414 MHz 33 2434 MHz 53 2454 MHz 73 2474 MHz 14 2415 MHz 34 2435 MHz 54 2455 MHz 74 2475 MHz 15 2416 MHz 35 2436 MHz 55 2456 MHz 75 2476 MHz 16 2417 MHz 36 2437 MHz 56 2457 MHz 76 2477 MHz 17 2418 MHz 37 2438 MHz 57 2458 MHz 77 2478 MHz 18 2419 MHz 38 2439 MHz 58 2459 MHz 78 2479 MHz 19 2420 MHz 39 2440 MHz 59 2460 MHz 79 2480 MHz	11	2412 MHz	31	2432 MHz	51	2452 MHz	71	2472 MHz
14 2415 MHz 34 2435 MHz 54 2455 MHz 74 2475 MHz 15 2416 MHz 35 2436 MHz 55 2456 MHz 75 2476 MHz 16 2417 MHz 36 2437 MHz 56 2457 MHz 76 2477 MHz 17 2418 MHz 37 2438 MHz 57 2458 MHz 77 2478 MHz 18 2419 MHz 38 2439 MHz 58 2459 MHz 78 2479 MHz 19 2420 MHz 39 2440 MHz 59 2460 MHz 79 2480 MHz	12	2413 MHz	32	2433 MHz	52	2453 MHz	72	2473 MHz
15 2416 MHz 35 2436 MHz 55 2456 MHz 75 2476 MHz 16 2417 MHz 36 2437 MHz 56 2457 MHz 76 2477 MHz 17 2418 MHz 37 2438 MHz 57 2458 MHz 77 2478 MHz 18 2419 MHz 38 2439 MHz 58 2459 MHz 78 2479 MHz 19 2420 MHz 39 2440 MHz 59 2460 MHz 79 2480 MHz	13	2414 MHz	33	2434 MHz	53	2454 MHz	73	2474 MHz
16 2417 MHz 36 2437 MHz 56 2457 MHz 76 2477 MHz 17 2418 MHz 37 2438 MHz 57 2458 MHz 77 2478 MHz 18 2419 MHz 38 2439 MHz 58 2459 MHz 78 2479 MHz 19 2420 MHz 39 2440 MHz 59 2460 MHz 79 2480 MHz	14	2415 MHz	34	2435 MHz	54	2455 MHz	74	2475 MHz
17 2418 MHz 37 2438 MHz 57 2458 MHz 77 2478 MHz 18 2419 MHz 38 2439 MHz 58 2459 MHz 78 2479 MHz 19 2420 MHz 39 2440 MHz 59 2460 MHz 79 2480 MHz	15	2416 MHz	35	2436 MHz	55	2456 MHz	75	2476 MHz
18 2419 MHz 38 2439 MHz 58 2459 MHz 78 2479 MHz 19 2420 MHz 39 2440 MHz 59 2460 MHz 79 2480 MHz	16	2417 MHz	36	2437 MHz	56	2457 MHz	76	2477 MHz
19 2420 MHz 39 2440 MHz 59 2460 MHz 79 2480 MHz	17	2418 MHz	37	2438 MHz	57	2458 MHz	77	2478 MHz
	18	2419 MHz	38	2439 MHz	58	2459 MHz	78	2479 MHz
20 2421 MHz 40 2441 MHz 60 2461 MHz	19	2420 MHz	39	2440 MHz	59	2460 MHz	79	2480 MHz
	20	2421 MHz	40	2441 MHz	60	2461 MHz		

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4.2 The Worst Test Modes and Channel Details

- 1 The EUT has been tested under operating condition.
- 2 Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
- 3 The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.
- 4 Investigation has been done on all the possible configurations for searching the worst case.

ANTNNA PORT CONDUCTED TEST						
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	PACKET TYPE		
		Output Power, 20dB I	Band Width	TYPE		
	0 to 78	0,39,78	GFSK	DH5		
Bluetooth	0 to 78	0,39,78	π/4-DQPSK	2DH5		
	0 to 78	0,39,78	8-DPSK	3DH5		
Band Edge						
Bluetooth	0 to 78	0,78	GFSK/8-DPSK	DH5/3DH5		
		Frequency Separat	ion			
Bluetooth	0 to 78	0,1,2,38,39,40,76,77,	GFSK π/4-DQPSK 8-DPSK	DH5 2DH5 3DH5		
	Number of H	opping Frequency, H	-	52.116		
Bluetooth	0 to 78	0 to 78	GFSK/8-DPSK	DH5/3DH5		
	Tir	me of Occupancy(Dw	ell time)			
			GFSK	DH1/DH3/DH5		
Bluetooth	0 to 78	39	π/4-DQPSK	2DH1/2DH3/2DH5		
			8-DPSK	3DH1/3DH3/3DH5		
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	PACKET TYPE		
	RADIATED EMISSION TEST (BELOW 1 GHz)					
Bluetooth	0 to 78	39	GFSK/8-DPSK	DH5/3DH5		
	RADIATED EMISSION TEST (ABOVE 1 GHz)					
Bluetooth	0 to 78	0,39,78	GFSK/8-DPSK	DH5/3DH5		

Note: The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for channel Low, Mid and High, the worst case position was reported.

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MEASUREMENT UNCERTAINTY

Test Items	U	Incertair	nty
AC Power Line Conducted Emission	+/-	2.32	dB
Output Power measurement	+/-	1	dB
Emission Bandwidth	+/-	1.53	Hz
Undesignable radiated emission measurement	+/-	1.68	dB
Frequency Separation	+/-	1.53	Hz
Number of hopping frequency	+/-	1.53	Hz
Time of Occupancy	+/-	1.53	Hz
Temperature	+/-	0.7	Ô
Humidity	+/-	3	%
DC / AC Power Source	+/-	1	%

Radiated Spurious Emission Measurement Uncertainty								
	+/-	2.8	dB	9kHz~30MHz				
Polorization: Vartical	+/-	4.82	dB	30MHz - 1000MHz				
Polarization: Vertical	+/-	4.37	dB	1GHz - 18GHz				
	+/-	4.21	dB	18GHz - 40GHz				
	+/-	2.8	dB	9kHz~30MHz				
Polarization: Horizontal	+/-	4.54	dB	30MHz - 1000MHz				
Polarization: Horizontal	+/-	4.37	dB	1GHz - 18GHz				
	+/-	4.21	dB	18GHz - 40GHz				

Note:

- 1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
- 2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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MEASUREMENT EQUIPMENT USED

Emission from AC power line

AC Power-Line Conducted Emission Test Site: Conduction C											
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.						
LISN	SCHWARZBECK Mess-Elektronik	NSLK8127	973	04/13/2022	04/12/2023						
EMI Test Receiver R&S		ESCI	101342	04/25/2022	04/24/2023						
Coaxial Cable	EC Lab	RF-HY-CAB-250	RF-HY-CAB-250-01	03/27/2022	03/26/2023						
Coaxial Cable EMC Instruments Corp		EMC5D-BM-BM- 3000	1401004	03/27/2022	03/26/2023						
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R						

6.2 **Conducted Measurement**

	Conducted Emission Test Site: Conducted F											
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.							
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071574	06/20/2022	06/19/2023							
DC Block	PASTERNACK	PE8210	RF153	11/16/2022	11/15/2023							
Power Meter	Anritsu	ML2496A	1512003	07/26/2022	07/25/2023							
Power Sensor	Anritsu	MA2411B	1339378	07/26/2022	07/25/2023							
Test Software	Test Software SGS Taiwan Attenuator Woken Attenuator Woken		Ver.21	N.C.R	N.C.R							
Attenuator			RF18	11/16/2022	11/15/2023							
Attenuator			RF20	11/16/2022	11/15/2023							

6.3 **Radiated Measurement**

	Radiated Emission Test Site: SAC D										
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.						
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-617	12/19/2022	12/18/2023						
Horn Antenna	Schwarzbeck	BBHA9170	184	12/30/2022	12/29/2023						
Horn Antenna	Schwarzbeck	BBHA9170	185	08/22/2022	08/21/2023						
Horn Antenna	Schwarzbeck	BBHA9120D	1341	05/31/2022	05/30/2023						
Loop Antenna		6502	143303	05/14/2022	05/13/2023						
3m Site NSA		966 chamber D	N/A	04/30/2022	04/29/2023						
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R						
Pre-Amplifier	EMC Instruments	EMC18405SEE	980881	10/25/2022	10/24/2023						
Pre-Amplifier	EMCInstruments	EMC9135	980234	11/16/2022	11/15/2023						
Pre-Amplifier	EMC Instruments	EMC12630SE	980273	11/16/2022	11/15/2023						
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	11/16/2022	11/15/2023						
Coaxial Cable Huber Suhner		EMC106-SM-SM- 7200	150703	11/16/2022	11/15/2023						
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17413/4	11/16/2022	11/15/2023						

NOTE: N.C.R refers to Not Calibrated Required.

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CONDUCTED EMISSION TEST

7.1 Standard Applicable

Frequency within 150 kHz to 30MHz shall not exceed the limit table as below.

Frequency range	Limits dB(uV)					
MHz	Quasi-peak Average					
0.15 to 0.50	66 to 56	56 to 46				
0.50 to 5	56	46				
5 to 30	60	50				

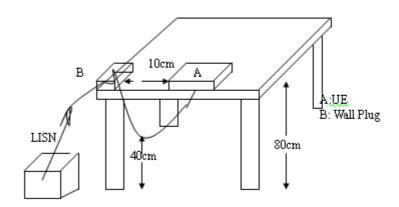
Note

- 1. The lower limit shall apply at the transition frequencies
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

7.2 **EUT Setup**

- 1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI 63.10:2013.
- 2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
- 3. The LISN was connected with 120Vac/60Hz power source.

7.3 **Test Setup**



7.4 **Measurement Procedure**

- 1. The EUT was placed on a table which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all frequency measured were complete.

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7.5 Measurement Result

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closest to the limit.

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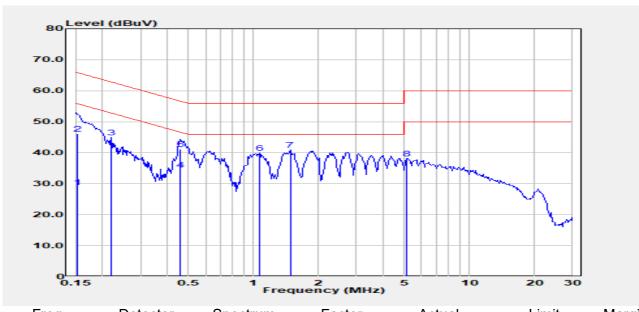
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number :TERF2302000272E2 Test Site :Conduction C Test Mode :BT **Test Date** :2023-03-15

Power :120V/60Hz Temp./Humi. :22.5/52

Probe :L1 Engineer :Howard Huang



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
0.153	Average	18.70	10.27	28.97	55.82	-26.85
0.153	QP	35.80	10.27	46.07	65.82	-19.75
0.220	Peak	34.54	10.27	44.81	62.83	-18.02
0.456	Average	24.10	10.31	34.41	46.76	-12.35
0.456	QP	30.70	10.31	41.01	56.76	-15.75
1.065	Peak	29.39	10.44	39.83	56.00	-16.17
1.480	Peak	30.04	10.83	40.87	56.00	-15.13
5.112	Peak	27.62	10.55	38.17	60.00	-21.83

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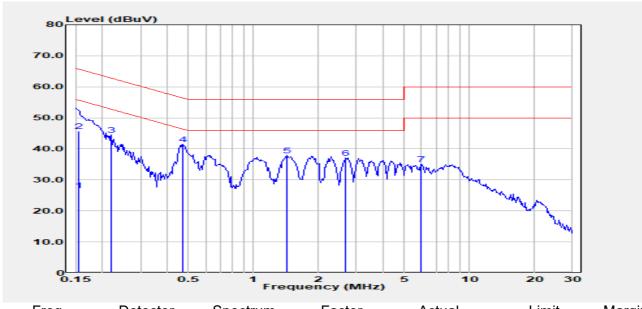
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Report Number :TERF2302000272E2 **Test Site** :Conduction C

Test Mode :BT **Test Date** :2023-03-15

Power :120V/60Hz Temp./Humi. :22.5/52

:N Probe Engineer :Howard Huang



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
0.155	Average	16.39	10.28	26.67	55.74	-29.07
0.155	QP	35.39	10.28	45.67	65.74	-20.07
0.220	Peak	34.15	10.27	44.43	62.83	-18.41
0.471	Peak	31.18	10.30	41.48	56.49	-15.02
1.433	Peak	27.22	10.76	37.98	56.00	-18.02
2.678	Peak	26.14	10.93	37.07	56.00	-18.93
5.929	Peak	24.49	10.53	35.01	60.00	-24.99

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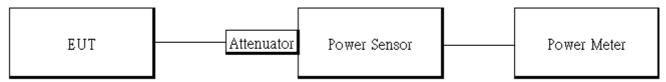
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PEAK OUTPUT POWER MEASUREMENT

8.1 Standard Applicable

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 hopping channels, The Limit: 1Watt. For all other frequency hopping systems in the 2400 - 2483.5MHz band: The Limit: 0.125 Watts. The power limit for 1Mbps is 1watt, and 2Mbps, 3Mbps and AFH mode are 0.125 watts.

8.2 **Test Setup**



8.3 **Measurement Procedure:**

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows ANSI C63.10 Measurement Guidelines.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter or spectrum. (Max Hold, Detector = Peak, RBW >=20dB bandwidth)
- 4. Record the max. reading.
- 5. Repeat above procedures until all default test channel is completed.

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8.4 Peak & Average Power Measurement Result

1M BR mode (Average)

СН	Freq. (MHz)	Power set	Max. Avg.Output include tune up tolerance Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	default	9.15	8.221	1000
Mid	2441	default	9.30	8.509	1000
High	2480	default	9.36	8.630	1000

1M BR mode EIRP

Channel	Frequency (MHz)	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	Limit (mW)
Low	2402	default	9.15	2.93	16.140	4000
Mid	2441	default	9.30	2.93	16.707	4000
High	2480	default	9.36	2.93	16.943	4000

2M EDR mode (Average):

СН	Freq. (MHz)	Power set	Max. Avg.Output include tune up tolerance Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	default	9.06	8.060	125
Mid	2441	default	9.14	8.209	125
High	2480	default	9.23	8.381	125

2M EDR mode EIRP

ZW ZDK Mode ZIKI								
Channel	Frequency (MHz)	Power set	Max. Avg.Output include tune up tolerance Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	Limit (mW)		
Low	2402	default	9.06	2.93	15.824	4000		
Mid	2441	default	9.14	2.93	16.118	4000		
High	2480	default	9.23	2.93	16.455	4000		

3M EDR mode (Average):

СН	Freq. (MHz)	Power set	Max. Avg.Output include tune up tolerance Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	default	9.10	8.128	125
Mid	2441	default	9.15	8.225	125
High	2480	default	9.24	8.397	125

*Note: Max. Output include tune up tolerance Power measured by using average detector.

3M EDR mode EIRP

Channel	Frequency (MHz)	Power set	Max. Avg.Output include tune up tolerance Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	Limit (mW)
Low	2402	default	9.10	2.93	15.959	4000
Mid	2441	default	9.15	2.93	16.149	4000
High	2480	default	9.24	2.93	16.487	4000

* Note: EIRP = Average Power + Gain

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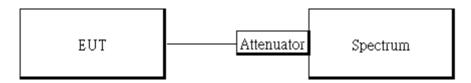
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9 EMISSION BANDWIDTH MEASUREMENT

9.1 Standard Applicable

For frequency hopping systems operating in the 2400 MHz-2483.5 MHz no limit for 20dB bandwidth.

9.2 Test Setup



9.3 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 the spectrum analyzer as

RBW= 1 % to 5% of OBW.

VBW = 3 X RBW

Span= 2 to 5 times of the OBW,

Sweep=auto,

Detector = Peak, and Max hold for 20dB Bandwidth test.

- 5. Mark the peak frequency and -20dB (upper and lower) frequency
- 6. Repeat above procedures until all test default channel is completed

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GFSK

СН	20 dB BW (MHz)	2/3 BW (MHz)
Low	0.9325	0.62
Mid	0.9334	0.62
High	0.9323	0.62

π/4-DQPSK

СН	20 dB BW	2/3 BW	
CII	(MHz)	(MHz)	
Low	1.266	0.84	
Mid	1.267	0.84	
High	1.267	0.84	

8-DPSK

СН	20 dB BW (MHz)	2/3 BW (MHz)
Low	1.277	0.85
Mid	1.274	0.85
High	1.274	0.85

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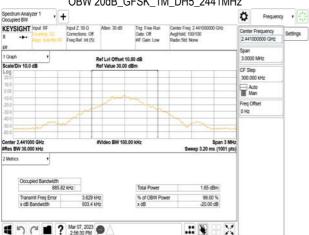
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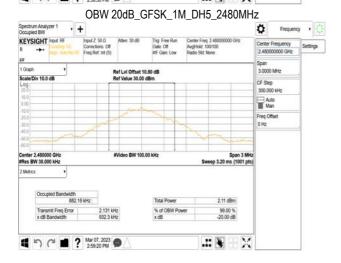
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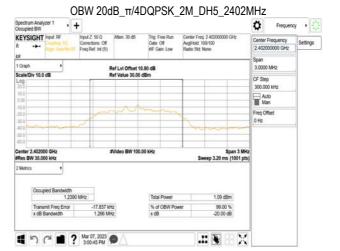


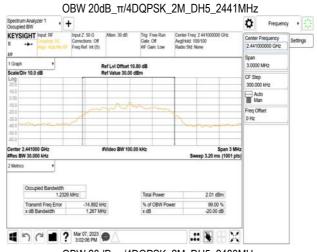
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OBW 20dB_GFSK_1M_DH5_2402MHz Spectrum Analyzer 1 Frequency + Trig Free Run Gate: Off KEYSIGHT Input RF vency Settings 1 Graph Scale/Div 10.0 dB Auto Man Freq Offset 0 Hz Span 3 M Occupied Bandwidth 881.61 kHz Total Powe 0.86 dBm Transmit Freq Error x dB Bandwidth % of OBW Power x dB 99.00 % -20.00 dB ■ ? Mar 07, 2023 ● .: W - X OBW 20dB_GFSK_1M_DH5_2441MHz











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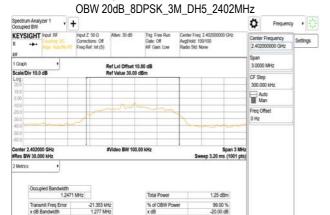
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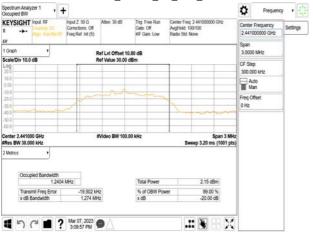
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OBW 20dB_8DPSK_3M_DH5_2441MHz

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OBW 20dB_8DPSK_3M_DH5_2480MHz



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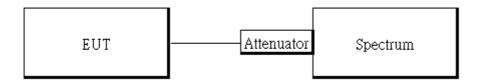
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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

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, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

10.2 Test Setup



10.3 **Measurement Procedure**

10.3.1 **Conducted Band Edge:**

- 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=100 kHz, VBW=300 kHz, Sweep = auto
- 6. Mark Peak, below 2.4GHz and above 2.4835GHz and record the max. level.
- 7. Repeat above procedures until all frequency measured were complete.

10.3.2 **Conducted Spurious Emission:**

- 1. To connect Antenna Port of EUT to Spectrum.
- 2. The testing follows ANSI C63.10:2013.
- 3. Set RBW = 100 kHz & VBW = 300 kHz, Detector = Peak, Sweep = Auto
- 4. Allow trace to fully stabilize.
- 5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
- 6. Repeat above procedures until all default test channel measured were complete.

Measurement Result

See next page for test plots.

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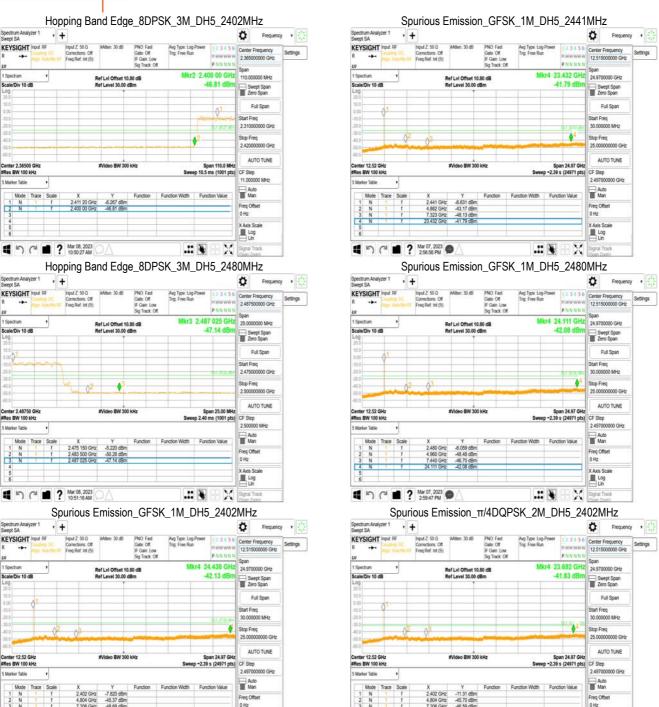
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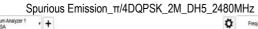
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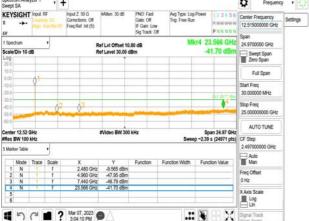
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Spurious Emission π/4DQPSK 2M DH5 2441MHz ٥ KEYSIGHT Input RF nd 7 50 0 42.45 0 Swept Span Zero Span Full Span Center 12.52 GH: #Res BW 100 kH an 24.97 G Auto Man Mode Trace Sc Function Width Function Value 0 Hz X Axis Scale Log Lin ■ ? Mar 07, 2023 ●



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Signal Trac



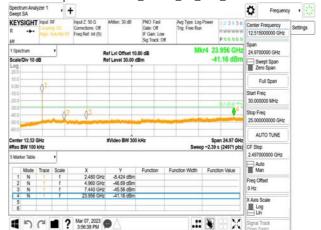
Spurious Emission 8DPSK 3M DH5 2402MHz



Spurious Emission 8DPSK 3M DH5 2441MHz



Spurious Emission_8DPSK_3M_DH5_2480MHz



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11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

11.1 Standard Applicable

11.1.1 Duty Cycle Correction Factor

According to 15. 35(c), the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value. The exact method of calculating the average field strength shall be submitted with any application for certification.

11.1.2 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 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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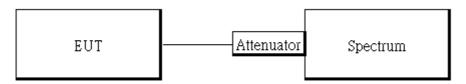


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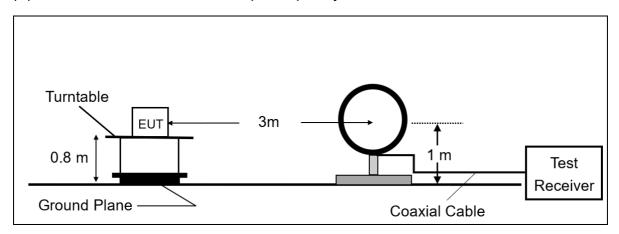
Test Setup

11.2.1 **Duty Cycle Correction Factor**

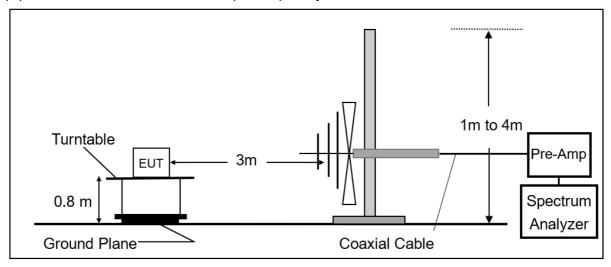


11.2.2 **Radiated Emission**

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



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



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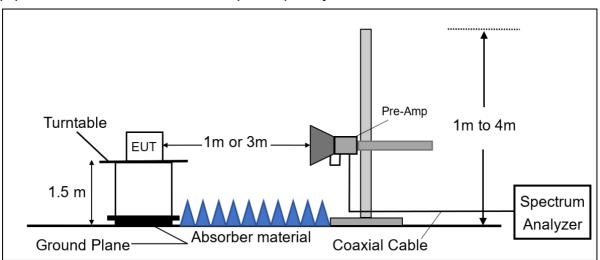
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(C) Radiated Emission Test Set-Up, Frequency Above 1 GHz.



11.3 Measurement Procedure

11.3.1 Duty Cycle Correction Factor

- 1.Adjust and configure any EUT switches, controls, or input data streams to ensure that the EUT is transmitting or encoded to obtain the "worst-case" pulse ON time.
- 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=100ms.
- 6. Repeat above procedures until all frequency of the interest measured were complete.

11.3.2 Radiated Emission

- 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.

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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 (Ton/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.

11.4 Field Strength Calculation

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

FS = RA + AF + CL - AG

Where FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

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

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

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

Average value(dBµV/m)=Peak Actual FS(dBµV/m)+ Duty Cycle Correction Factor(dB)

Duty Cycle Correction Factor(dB) = 20 log (Ton/100 ms)

11.5 Test Results of Radiated Spurious Emissions form 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) was not reported.

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Measurement Result:

11.6.1 **Duty Cycle Correction Factor**

BR			
Time ON of 100ms:	8.700	ms	
Duty Cycle=8.7ms / 100ms:	0.087	%	
Duty Cycle correction factor	-21.21	dB	
EDR			
EDR Time ON of 100ms:	5.830	ms	
		ms %	

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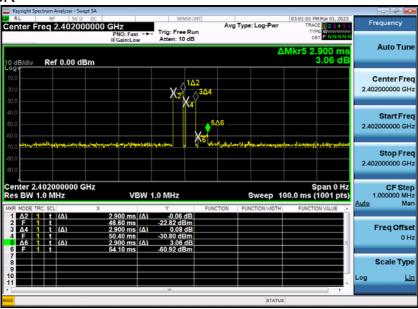
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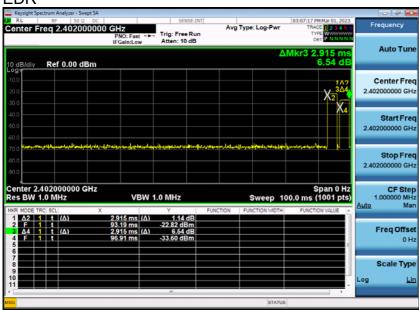
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11.6.2 Duty Cycle test plot

BR



EDR



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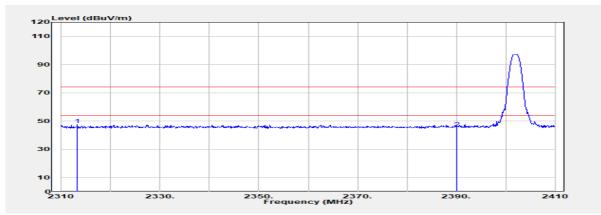
11.6.3 Bandedge Result

Report Number :TERF2302000272E2 Test Site :SAC D

Operation Mode :BR :2023-02-23 Test Date

Test Frequency :2402 MHz Temp./Humi. :22.9/54 Test Mode :Bandedge Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Howard Huang



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2313.200	Peak	54.11	-6.79	47.32	74.00	-26.68
2390.000	Peak	52.37	-7.04	45.32	74.00	-28.68
Freq.	Detector	Peak Actual	Duty Cycle	Average	Average	Margin
	Mode	FS	Factor	Value	Limit@3m	
MHz	AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
2313.200	Average	47.32	-21.21	26.11	54.00	-27.89
2390.000	Average	45.32	-21.21	24.11	54.00	-29.89

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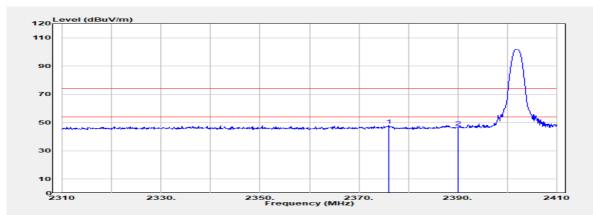
Report Number :TERF2302000272E2 Test Site :SAC D

Operation Mode: BR **Test Date** :2023-02-23

Test Frequency :2402 MHz Temp./Humi. :22.9/54

Test Mode :Bandedge Antenna Pol. :Horizontal

EUT Pol :E2 Plane :Howard Huang Engineer



Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
Peak	55.21	-7.00	48.21	74.00	-25.79
Peak	53.83	-7.04	46.78	74.00	-27.22
Detector	Peak Actual	, ,	Average	Average	Margin
				_	
AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
Average	48.21	-21.21	27.00	54.00	-27.00
Average	46.78	-21.21	25.57	54.00	-28.43
	Mode PK/QP/AV Peak Peak Detector Mode AV Average	Mode PK/QP/AV Reading Level dBμV Peak 55.21 Peak 53.83 Detector Peak Actual FS AV (dBμV/m) Average 48.21	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Mode PK/QP/AV Reading Level dBμV FS dBμV/m Peak 55.21 -7.00 48.21 Peak 53.83 -7.04 46.78 Detector Mode FS Factor AV Peak Actual Puty Cycle Factor Value (dBμV/m) Average (dBμV/m) Average AV 48.21 -21.21 27.00	Mode PK/QP/AV Reading Level dB μV FS dB μV/m @3m dB μV/m Peak 55.21 -7.00 48.21 74.00 Peak 53.83 -7.04 46.78 74.00 Detector Mode FS Mode AV Peak Actual FS Factor Value (dB μV/m) Average Limit@3m (dB μV/m) Limit@3m (dB μV/m) Average Average FS Factor Value (dB μV/m) Factor Factor Value (dB μV/m) Factor Factor (dB μV/m) Factor (dB μV/m)

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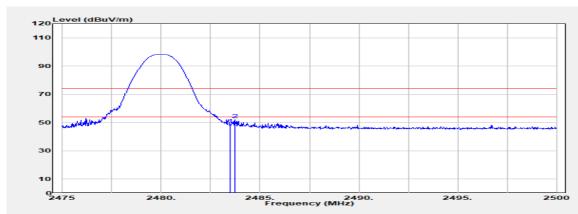
Report Number :TERF2302000272E2 Test Site :SAC D

Operation Mode: BR **Test Date** :2023-02-23

Test Frequency :2480 MHz Temp./Humi. :22.9/54

Antenna Pol. :Vertical Test Mode :Bandedge

Engineer **EUT Pol** :E2 Plane :Howard Huang



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	55.50	-7.20	48.30	74.00	-25.70
2483.725	Peak	59.09	-7.20	51.89	74.00	-22.11
Freq.	Detector	Peak Actual	Duty Cycle	Average	Average	Margin
	Mode	FS	Factor	Value	Limit@3m	
MHz	AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
2483.500	Average	48.30	-21.21	27.09	54.00	-26.91
2483.725	Average	51.89	-21.21	30.68	54.00	-23.32
	, c. c.g.c	000		00.00	000	

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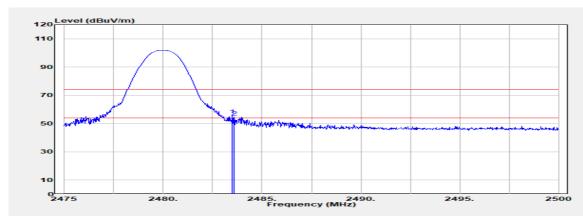
Report Number :TERF2302000272E2 Test Site :SAC D

Operation Mode: BR **Test Date** :2023-02-23

Test Frequency :2480 MHz Temp./Humi. :22.9/54

Test Mode :Bandedge Antenna Pol. :Horizontal

EUT Pol :E2 Plane :Howard Huang Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	63.24	-7.20	56.04	74.00	-17.96
2483.600	Peak	61.82	-7.20	54.63	74.00	-19.37
Freq.	Detector	Peak Actual	Duty Cycle	Average	Average	Margin
	Mode	FS	Factor	Value	Limit@3m	
MHz	AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
2483.500	Average	56.04	-21.21	34.83	54.00	-19.17
2483.600	Average	54.63	-21.21	33.42	54.00	-20.58

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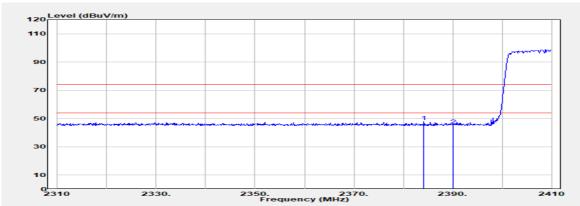
Report Number :TERF2302000272E2 Test Site :SAC D

Operation Mode :BR HOPPING Test Date :2023-02-23

Test Frequency :2402 MHz Temp./Humi. :22.9/54

Test Mode :Bandedge Antenna Pol. :Vertical

Engineer **EUT Pol** :E2 Plane :Howard Huang



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2384.200	Peak	54.73	-7.02	47.71	74.00	-26.29
2390.000	Peak	52.34	-7.04	45.29	74.00	-28.71
Eroa	Detector	Peak Actual	Duty Cycle	Avorago	Average	Morgin
Freq.	Mode	Feak Actual FS	Factor	Average Value	Average Limit@3m	Margin
MHz	AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
2384.200	Average	47.71	-21.21	26.50	54.00	-27.50
2390.000	Average	45.29	-21.21	24.08	54.00	-29.92

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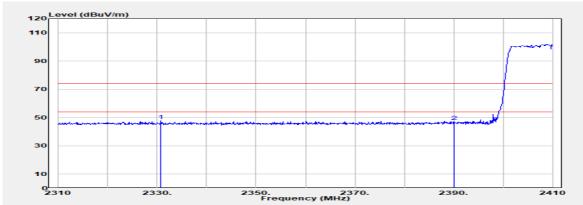
Report Number :TERF2302000272E2 Test Site :SAC D

Operation Mode :BR HOPPING Test Date :2023-02-23

Test Frequency :2402 MHz Temp./Humi. :22.9/54

Test Mode :Bandedge Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Howard Huang



	Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
_	MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
	2330.700	Peak	54.70	-6.85	47.85	74.00	-26.15
	2390.000	Peak	54.12	-7.04	47.07	74.00	-26.93
	Freq.	Detector	Peak Actual	Duty Cycle	Average	Average	Margin
	rieq.	Mode	FS FEAR Actual	Factor	Value	Limit@3m	Margin
	MHz	AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
	2330.700	Average	47.85	-21.21	26.64	54.00	-27.36
	2390.000	Average	47.07	-21.21	25.86	54.00	-28.14

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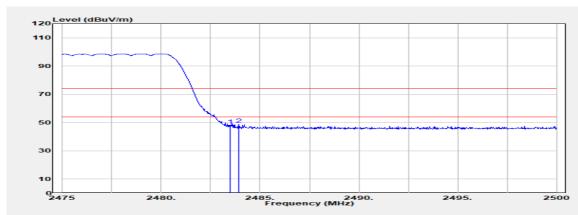
Report Number :TERF2302000272E2 Test Site :SAC D

Operation Mode :BR HOPPING Test Date :2023-02-23

Test Frequency :2480 MHz Temp./Humi. :22.9/54

Test Mode :Bandedge Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Howard Huang



Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
Peak	55.48	-7.20	48.28	74.00	-25.72
Peak	55.91	-7.20	48.71	74.00	-25.29
Detector	Peak Actual		Average	Average	Margin
				_	
AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
Average	48.28	-21.21	27.07	54.00	-26.93
Average	48.71	-21.21	27.50	54.00	-26.50
	Mode PK/QP/AV Peak Peak Detector Mode AV Average	Mode PK/QP/AV Reading Level dBμV Peak 55.48 Peak 55.91 Detector Peak Actual FS (dBμV/m) Average 48.28	Mode PK/QP/AV Reading Level dBμV dB Peak Peak 55.48 -7.20 -7.20 Detector Mode FS AV (dBμV/m) Peak Actual Factor (dBμV/m) Duty Cycle Factor (dBμV/m) Average 48.28 -21.21	Mode PK/QP/AVReading Level dBμVFS dBμV/mPeak 55.48 -7.20 48.28 Peak 55.91 -7.20 48.71 Detector Mode FS Factor AVPeak Actual Puty Cycle Factor Value (dBμV/m)Average (dBμV/m)Average 48.28 -21.21 27.07	Mode PK/QP/AV Reading Level dB μV FS dB μV/m @3m dB μV/m Peak 55.48 -7.20 48.28 74.00 Peak 55.91 -7.20 48.71 74.00 Detector Mode FS Hactor AV Peak Actual Pactor Factor Value (dB μV/m) Average (dB μV/m) Average (dB μV/m) Average (dB μV/m) Average (dB μV/m) Average Average Average Average (dB μV/m) Factor Value (dB μV/m) Limit@3m (dB μV/m) Average Average Average (dB μV/m) Factor (dB μV/m) Factor (dB μV/m) Factor (dB μV/m)

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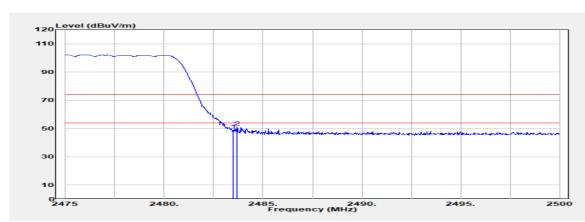
Report Number :TERF2302000272E2 Test Site :SAC D

Operation Mode :BR HOPPING Test Date :2023-02-23

Test Frequency :2480 MHz Temp./Humi. :22.9/54

Test Mode :Bandedge Antenna Pol. :Horizontal

Engineer **EUT Pol** :E2 Plane :Howard Huang



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	55.94	-7.20	48.74	74.00	-25.26
2483.675	Peak	58.25	-7.20	51.05	74.00	-22.95
Freq.	Detector	Peak Actual	Duty Cycle	Average	Average	Margin
	Mode	FS	Factor	Value	Limit@3m	
MHz	AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
2483.500	Average	48.74	-21.21	27.53	54.00	-26.47
2483.675	Average	51.05	-21.21	29.84	54.00	-24.16

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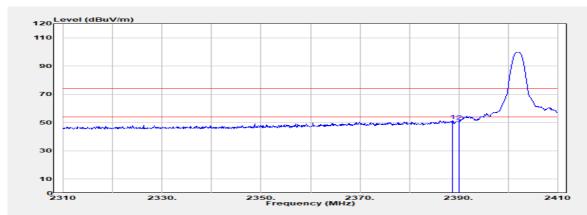
Report Number :TERF2302000272E2 Test Site :SAC D

Operation Mode: EDR 3M **Test Date** :2023-02-23

Test Frequency :2402 MHz Temp./Humi. :22.9/54

Antenna Pol. :Vertical Test Mode :Bandedge

Engineer **EUT Pol** :E2 Plane :Howard Huang



Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
Peak	58.33	-7.04	51.29	74.00	-22.71
Peak	58.06	-7.04	51.01	74.00	-22.99
Detector	Peak Actual	, ,	Average	Average	Margin
AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
Average	51.29	-24.69	26.60	54.00	-27.40
Average	51.01	-24.69	26.32	54.00	-27.68
	Mode PK/QP/AV Peak Peak Detector Mode AV Average	Mode PK/QP/AV Reading Level dBμV Peak 58.33 Peak 58.06 Detector Peak Actual FS (dBμV/m) Average 51.29	Mode PK/QP/AV Reading Level dBμV dB Peak Peak 58.33 -7.04 Peak Peak 58.06 -7.04 Detector Mode FS AV Peak Actual Fs Factor (dBμV/m) Duty Cycle Factor (dBμV/m) Average 51.29 -24.69	Mode PK/QP/AVReading Level dBμVFS dBμV/mPeak 58.33 -7.04 51.29 Peak 58.06 -7.04 51.01 Detector Mode FS Factor AVPeak Actual Factor Value (dBμV/m)Duty Cycle Factor Value (dBμV/m)Average 60 60	Mode PK/QP/AV Reading Level dB μV FS dB μV/m @3m dB μV/m Peak 58.33 -7.04 51.29 74.00 Peak 58.06 -7.04 51.01 74.00 Detector Mode FS Factor AV Peak Actual Psactor Value Limit@3m (dBμV/m) Value (dBμV/m) Limit@3m (dBuV/m) AV (dBμV/m) (dBμV/m) 26.60 54.00

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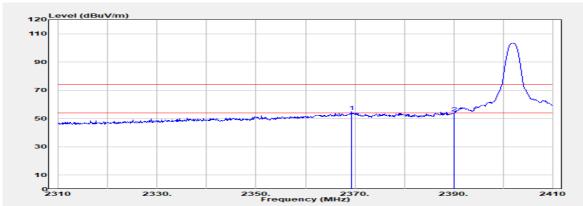
Report Number :TERF2302000272E2 Test Site :SAC D

Operation Mode: EDR 3M **Test Date** :2023-02-23

Test Frequency :2402 MHz Temp./Humi. :22.9/54

Test Mode :Bandedge Antenna Pol. :Horizontal

Engineer **EUT Pol** :E2 Plane :Howard Huang



	Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
	MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
	2369.300	Peak	62.00	-6.98	55.03	74.00	-18.97
	2390.000	Peak	60.90	-7.04	53.86	74.00	-20.14
	Freq.	Detector	Peak Actual	Duty Cycle	Average	Average	Margin
		Mode	FS	Factor	Value	Limit@3m	
_	MHz	AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
	2369.300	Average	55.03	-24.69	30.34	54.00	-23.66
	2390.000	Average	53.86	-24.69	29.17	54.00	-24.83

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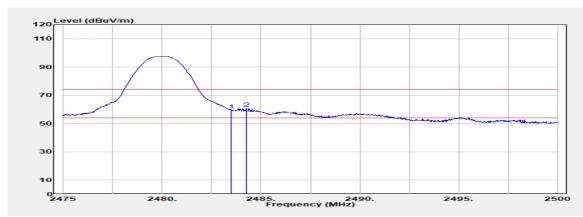
Report Number :TERF2302000272E2 Test Site :SAC D

Operation Mode: EDR 3M Test Date :2023-02-23

Test Frequency :2480 MHz Temp./Humi. :22.9/54

Antenna Pol. :Vertical Test Mode :Bandedge

Engineer **EUT Pol** :E2 Plane :Howard Huang



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	66.79	-7.20	59.59	74.00	-14.41
2484.250	Peak	68.00	-7.20	60.80	74.00	-13.20
Freq.	Detector	Peak Actual	Duty Cycle	Average	Average	Margin
	Mode	FS	Factor	Value	Limit@3m	
MHz	AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
2483.500	Average	59.59	-24.69	34.90	54.00	-19.10
2484.250	Average	60.80	-24.69	36.11	54.00	-17.89

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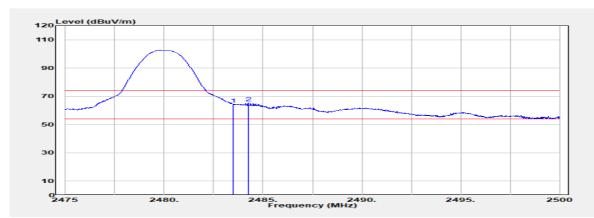
Report Number :TERF2302000272E2 Test Site :SAC D

Operation Mode :EDR 3M Test Date :2023-02-23

Test Frequency :2480 MHz Temp./Humi. :22.9/54

Test Mode :Bandedge Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Howard Huang



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	71.50	-7.20	64.30	74.00	-9.70
2484.250	Peak	72.42	-7.20	65.21	74.00	-8.79
Freq.	Detector	Peak Actual	Duty Cycle	Average	Average	Margin
	Mode	FS	Factor	Value	Limit@3m	
MHz	AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
2483.500	Average	64.30	-24.69	39.61	54.00	-14.39
2484.250	Average	65.21	-24.69	40.52	54.00	-13.48

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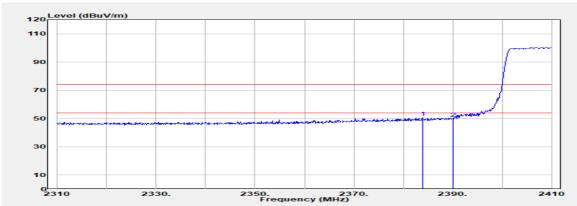
Report Number :TERF2302000272E2 Test Site :SAC D

Operation Mode: EDR 3M HOPPING Test Date :2023-02-23

Test Frequency :2402 MHz Temp./Humi. :22.9/54

Test Mode :Bandedge Antenna Pol. :Vertical

Engineer **EUT Pol** :E2 Plane :Howard Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2383.900	Peak	57.85	-7.02	50.83	74.00	-23.17
2390.000	Peak	57.28	-7.04	50.24	74.00	-23.76
Freq.	Detector	Peak Actual	Duty Cycle	Average	Average	Margin
·	Mode	FS	Factor	Value	Limit@3m	
MHz	AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
2383.900	Average	50.83	-24.69	26.14	54.00	-27.86
2390.000	Average	50.24	-24.69	25.55	54.00	-28.45

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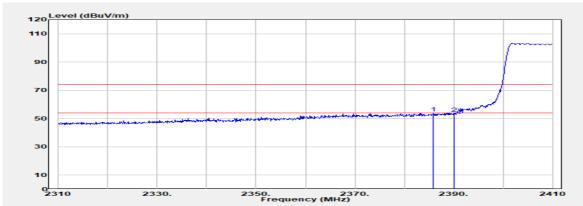
Report Number :TERF2302000272E2 Test Site :SAC D

Operation Mode: EDR 3M HOPPING Test Date :2023-02-23

Test Frequency :2402 MHz Temp./Humi. :22.9/54

Test Mode :Bandedge Antenna Pol. :Horizontal

Engineer **EUT Pol** :E2 Plane :Howard Huang



	Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
	MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
	2385.900	Peak	61.02	-7.03	53.99	74.00	-20.01
	2390.000	Peak	60.81	-7.04	53.77	74.00	-20.23
	Freq.	Detector	Peak Actual	Duty Cycle	Average	Average	Margin
		Mode	FS	Factor	Value	Limit@3m	
_	MHz	AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
	2385.900	Average	53.99	-24.69	29.30	54.00	-24.70
	2390.000	Average	53.77	-24.69	29.08	54.00	-24.92

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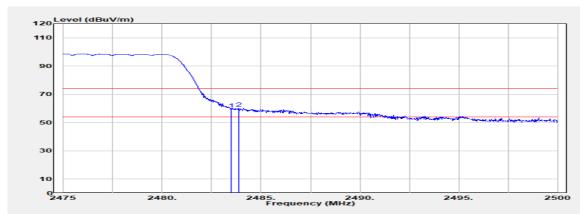
Report Number :TERF2302000272E2 Test Site :SAC D

Operation Mode :EDR 3M HOPPING Test Date :2023-02-23

Test Frequency :2480 MHz Temp./Humi. :22.9/54

Test Mode :Bandedge Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Howard Huang



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	66.62	-7.20	59.42	74.00	-14.58
2483.850	Peak	67.36	-7.20	60.16	74.00	-13.84
Freq.	Detector	Peak Actual	Duty Cycle	Average	Average	Margin
					_	
<u>MHz</u>	AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
2483.500	Average	59.42	-24.69	34.73	54.00	-19.27
2483.850	Average	60.16	-24.69	35.47	54.00	-18.53
MHz 2483.500	Mode AV Average	FS (dBμV/m) 59.42	Factor (dB) -24.69	Value (dBuV/m) 34.73	Limit@3m (dBuV/m) 54.00	(dB) -19.27

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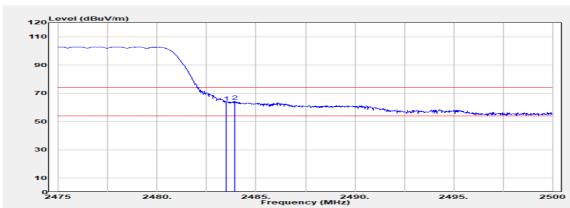
Report Number :TERF2302000272E2 Test Site :SAC D

Operation Mode :EDR 3M HOPPING Test Date :2023-02-23

Test Frequency :2480 MHz Temp./Humi. :22.9/54

Test Mode :Bandedge Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Howard Huang



	Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
_	MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
	2483.500	Peak	70.93	-7.20	63.73	74.00	-10.27
	2483.925	Peak	71.57	-7.20	64.37	74.00	-9.63
	_				_	_	
	Freq.	Detector	Peak Actual	Duty Cycle	Average	Average	Margin
		Mode	FS	Factor	Value	Limit@3m	
	MHz	AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
	2483.500	Average	63.73	-24.69	39.04	54.00	-14.96
	2483.925	Average	64.37	-24.69	39.68	54.00	-14.32

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11.6.4 Radiated Spurious Emission

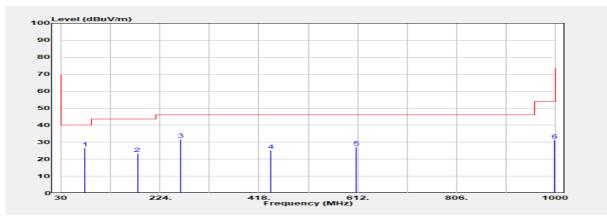
Report Number :TERF2302000272E2 Test Site :SAC D

Operation Mode :BR Test Date :2023-02-23

Test Frequency :2441 MHz Temp./Humi. :22.9/54

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Howard Huang



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
75.590	Peak	47.31	-20.76	26.55	40.00	-13.45
179.380	Peak	41.32	-18.04	23.29	43.50	-20.21
263.770	Peak	48.75	-17.05	31.71	46.00	-14.29
442.250	Peak	37.31	-12.13	25.18	46.00	-20.82
610.060	Peak	36.08	-8.90	27.17	46.00	-18.83
999.030	Peak	35.40	-4.35	31.05	54.00	-22.95

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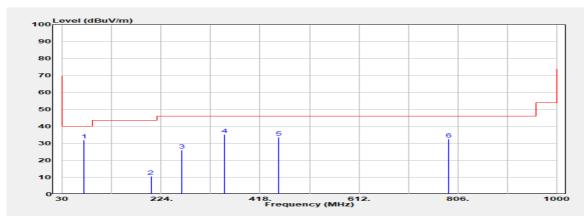
Report Number :TERF2302000272E2 Test Site :SAC D

Operation Mode :BR Test Date :2023-02-23

Test Frequency :2441 MHz Temp./Humi. :22.9/54

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Howard Huang



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
71.710	Peak	51.79	-19.78	32.01	40.00	-7.99
203.630	QP	30.40	-19.96	10.44	43.50	-33.06
263.770	QP	43.10	-17.05	26.05	46.00	-19.95
348.160	Peak	50.48	-15.13	35.36	46.00	-10.64
454.860	Peak	45.35	-11.67	33.68	46.00	-12.32
788.540	Peak	39.40	-6.81	32.60	46.00	-13.40

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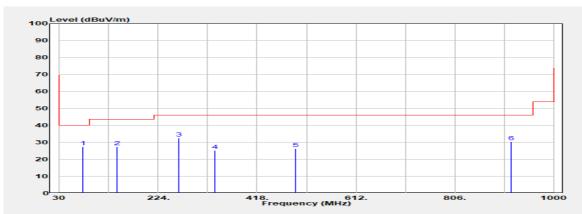
Report Number :TERF2302000272E2 Test Site :SAC D

Operation Mode :EDR 3M Test Date :2023-02-23

Test Frequency :2441 MHz Temp./Humi. :22.9/54

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Howard Huang



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
76.560	Peak	48.43	-21.10	27.33	40.00	-12.67
143.490	Peak	44.23	-16.92	27.31	43.50	-16.19
263.770	Peak	49.61	-17.05	32.56	46.00	-13.44
335.550	Peak	40.55	-15.41	25.14	46.00	-20.86
493.660	Peak	38.51	-12.26	26.25	46.00	-19.75
916.580	Peak	35.35	-4.99	30.36	46.00	-15.64

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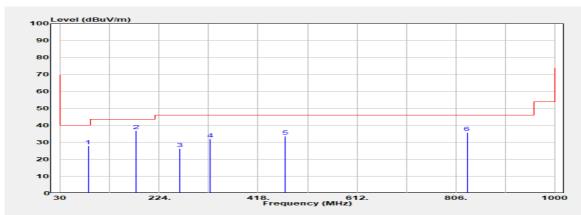
Report Number :TERF2302000272E2 Test Site :SAC D

Operation Mode :EDR 3M Test Date :2023-02-23

Test Frequency :2441 MHz Temp./Humi. :22.9/54

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Howard Huang



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
84.320	Peak	50.75	-22.83	27.92	40.00	-12.08
178.410	Peak	54.92	-17.99	36.94	43.50	-6.56
263.770	QP	43.30	-17.05	26.25	46.00	-19.75
323.910	Peak	47.22	-15.33	31.88	46.00	-14.12
471.350	Peak	45.32	-11.76	33.56	46.00	-12.44
828.310	Peak	42.04	-6.29	35.76	46.00	-10.24

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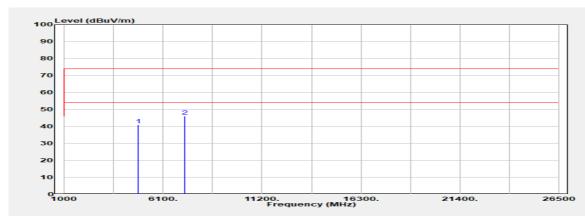
Report Number :TERF2302000272E2 Test Site :SAC D

Operation Mode: BR Test Date :2023-03-01

Test Frequency :2402 MHz Temp./Humi. :23.8/50

:Tx Test Mode Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Howard Huang



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4804.000	Peak	42.93	-2.06	40.88	74.00	-33.12
7206.000	Peak	41.77	4.26	46.03	74.00	-27.97
Freq.	Detector Mode	Peak Actual FS	Duty Cycle Factor	Average Value	Average Limit@3m	Margin
MHz	AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
4804.000	Average	40.88	-21.21	19.67	54.00	-34.33
7206.000	Average	46.03	-21.21	24.82	54.00	-29.18

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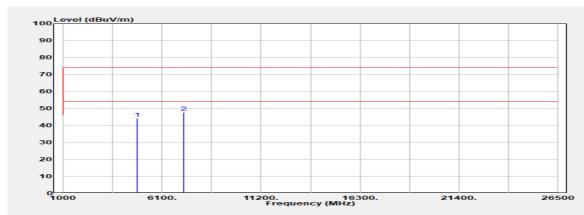
Report Number :TERF2302000272E2 Test Site :SAC D

Operation Mode :BR Test Date :2023-03-01

Test Frequency :2402 MHz Temp./Humi. :23.8/50

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Howard Huang



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4804.000	Peak	46.30	-2.06	44.24	74.00	-29.76
7206.000	Peak	43.49	4.26	47.75	74.00	-26.25
Freq.	Detector	Peak Actual	Duty Cycle	Average	Average	Margin
	Mode	FS	Factor	Value	Limit@3m	
MHz	AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
4804.000	Average	44.24	-21.21	23.03	54.00	-30.97
7206.000	Average	47.75	-21.21	26.54	54.00	-27.46

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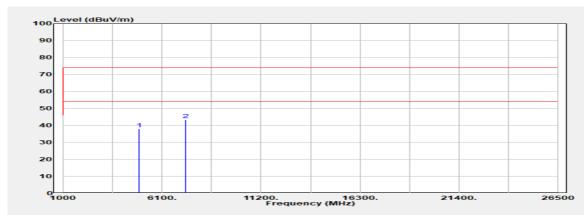
Report Number :TERF2302000272E2 Test Site :SAC D

Operation Mode :BR Test Date :2023-03-01

Test Frequency :2441 MHz Temp./Humi. :23.8/50

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Howard Huang



Limit Margin @3m
BμV/m dB
74.00 -35.94
74.00 -30.73
verage Margin
mit@3m
lBuV/m) (dB)
54.00 -37.15
54.00 -31.94
r

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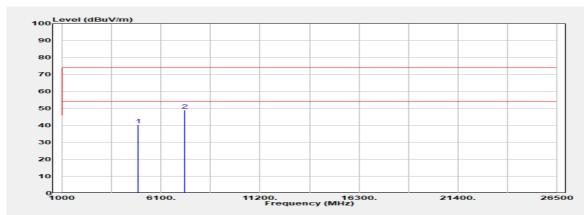
Report Number :TERF2302000272E2 Test Site :SAC D

Operation Mode: BR Test Date :2023-03-01

Test Frequency :2441 MHz Temp./Humi. :23.8/50

:Tx Test Mode Antenna Pol. :Horizontal

EUT Pol :E2 Plane :Howard Huang Engineer



Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
Peak	42.49	-2.08	40.40	74.00	-33.60
Peak	44.41	4.66	49.07	74.00	-24.93
Detector	Peak Actual	, ,	Average	Average	Margin
	. •				
AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
Average	40.40	-21.21	19.19	54.00	-34.81
Average	49.07	-21.21	27.86	54.00	-26.14
	Mode PK/QP/AV Peak Peak Detector Mode AV Average	Mode PK/QP/AV Reading Level dBμV Peak 42.49 Peak 44.41 Detector Peak Actual FS AV (dBμV/m) Average 40.40	Mode PK/QP/AV Reading Level dBμV dB Peak Peak 42.49 -2.08 Peak Peak 44.41 4.66 Detector Mode FS (dBμV/m) Peak Actual Factor (dB) Average 40.40 -21.21	Mode PK/QP/AVReading Level dBμVFS dBμV/mPeak 42.49 -2.08 40.40 Peak 44.41 4.66 49.07 Detector Mode FS Factor AVPeak Actual Factor Value (dBμV/m) $(dBμV/m)$ $(dBμV/m)$	Mode PK/QP/AV Reading Level dBμV FS dBμV/m @3m dBμV/m Peak 42.49 -2.08 40.40 74.00 Peak 44.41 4.66 49.07 74.00 Detector Mode FS Factor AV Peak Actual GBμV/m) Duty Cycle Average Average Limit@3m (dBuV/m) Limit@3m (dBuV/m) AV (dBμV/m) (dB) (dBuV/m) 54.00

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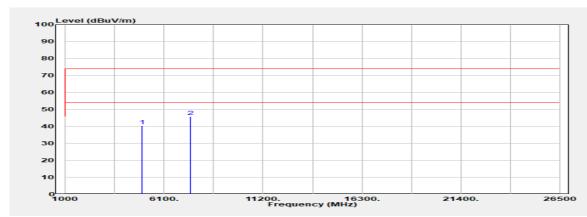
Report Number :TERF2302000272E2 Test Site :SAC D

Operation Mode :BR Test Date :2023-03-01

Test Frequency :2480 MHz Temp./Humi. :23.8/50

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Howard Huang



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4960.000	Peak	42.02	-1.59	40.43	74.00	-33.57
7440.000	Peak	41.89	3.95	45.84	74.00	-28.16
_				_	_	
Freq.	Detector Mode	Peak Actual FS	Duty Cycle Factor	Average Value	Average Limit@3m	Margin
MHz	AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
	7.11	(45/47711)	(42)	(4247,)	(4247711)	(42)
4960.000	Average	40.43	-21.21	19.22	54.00	-34.78

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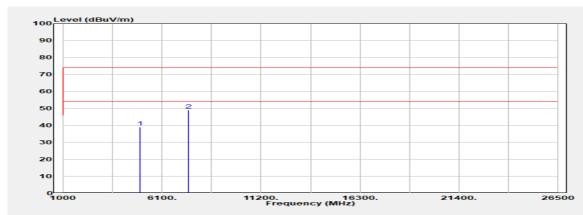
Report Number :TERF2302000272E2 Test Site :SAC D

Operation Mode: BR Test Date :2023-03-01

Test Frequency :2480 MHz Temp./Humi. :23.8/50

:Tx Test Mode Antenna Pol. :Horizontal

EUT Pol :E2 Plane :Howard Huang Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4960.000	Peak	40.60	-1.59	39.00	74.00	-35.00
7440.000	Peak	44.97	3.95	48.92	74.00	-25.08
Freq.	Detector Mode	Peak Actual FS	Duty Cycle Factor	Average Value	Average	Margin
MHz	AV	(dBµV/m)	racioi (dB)	(dBuV/m)	Limit@3m (dBuV/m)	(dB)
IVII IZ	Av	(ασμν/ιιι)	(UD)	(ubuv/iii)	(ubuv/III)	(ub)
4000 000	•	00.00	04.04	47.70	54.00	00.04
4960.000	Average	39.00	-21.21	17.79	54.00	-36.21
7440.000	Average	48.92	-21.21	27.71	54.00	-26.29

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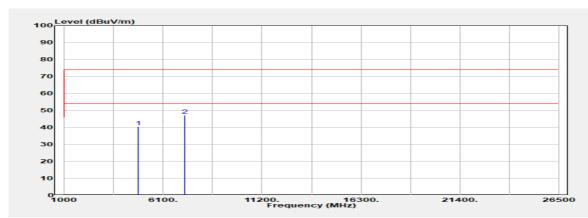
Report Number :TERF2302000272E2 Test Site :SAC D

Operation Mode: EDR 3M Test Date :2023-03-01

Test Frequency :2402 MHz Temp./Humi. :23.8/50

:Tx Test Mode Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Howard Huang



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4804.000	Peak	42.32	-2.06	40.27	74.00	-33.73
7206.000	Peak	43.01	4.26	47.27	74.00	-26.73
Freq.	Detector	Peak Actual	Duty Cycle	Average	Average	Margin
	Mode	FS	Factor	Value	Limit@3m	
MHz	AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
4804.000	Average	40.27	-24.69	15.58	54.00	-38.42
7206.000	Average	47.27	-24.69	22.58	54.00	-31.42

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Report Number :TERF2302000272E2 Test Site :SAC D

Operation Mode :EDR 3M Test Date :2023-03-01

Test Frequency :2402 MHz Temp./Humi. :23.8/50

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Howard Huang



	Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
_	MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
							_
	4804.000	Peak	46.25	-2.06	44.19	74.00	-29.81
	7206.000	Peak	45.21	4.26	49.47	74.00	-24.53
	Freq.	Detector Mode	Peak Actual FS	Duty Cycle Factor	Average Value	Average Limit@3m	Margin
	MHz	AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
	4804.000	Average	44.19	-24.69	19.50	54.00	-34.50
	7206.000	Average	49.47	-24.69	24.78	54.00	-29.22

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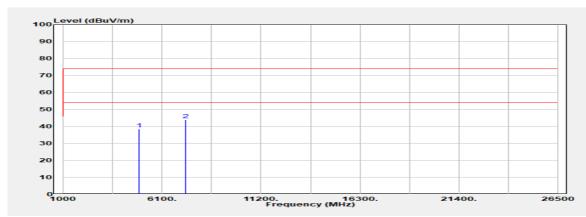
Report Number :TERF2302000272E2 Test Site :SAC D

Operation Mode: EDR 3M Test Date :2023-03-01

Test Frequency :2441 MHz Temp./Humi. :23.8/50

:Tx Test Mode Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Howard Huang



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4882.000	Peak	40.57	-2.08	38.48	74.00	-35.52
7323.000	Peak	39.34	4.66	44.00	74.00	-30.00
Freq.	Detector Mode	Peak Actual FS	Duty Cycle Factor	Average Value	Average Limit@3m	Margin
MHz	AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
4882.000	Average	38.48	-24.69	13.79	54.00	-40.21
7323.000	Average	44.00	-24.69	19.31	54.00	-34.69

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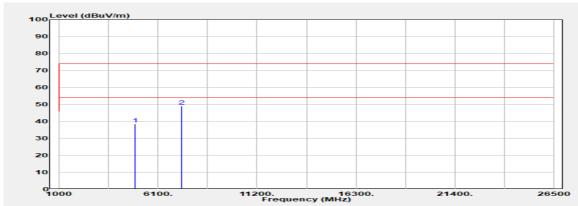
Report Number :TERF2302000272E2 Test Site :SAC D

Operation Mode :EDR 3M Test Date :2023-03-01

Test Frequency :2441 MHz Temp./Humi. :23.8/50

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Howard Huang



	Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
	MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
	4882.000	Peak	40.46	-2.08	38.38	74.00	-35.62
	7323.000	Peak	44.32	4.66	48.99	74.00	-25.01
	Freq.	Detector	Peak Actual	Duty Cycle	Average	Average	Margin
		Mode	FS	Factor	Value	Limit@3m	
_	MHz	AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
	4882.000	Average	38.38	-24.69	13.69	54.00	-40.31
	7323.000	Average	48.99	-24.69	24.30	54.00	-29.70

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Report Number :TERF2302000272E2 Test Site :SAC D

Operation Mode :EDR 3M Test Date :2023-03-01

Test Frequency :2480 MHz Temp./Humi. :23.8/50

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Howard Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4960.000	Peak	40.74	-1.59	39.15	74.00	-34.85
7440.000	Peak	42.15	3.95	46.10	74.00	-27.90
Freq.	Detector	Peak Actual	Duty Cycle	Average	Average	Margin
-	Mode	FS	Factor	Value	Limit@3m	
MHz	AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
4960.000	Average	39.15	-24.69	14.46	54.00	-39.54
7440.000	Average	46.10	-24.69	21.41	54.00	-32.59

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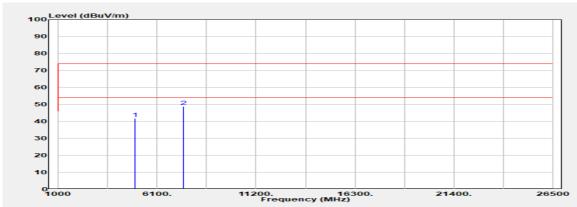
Report Number :TERF2302000272E2 Test Site :SAC D

Operation Mode :EDR 3M Test Date :2023-03-01

Test Frequency :2480 MHz Temp./Humi. :23.8/50

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Howard Huang



	Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
	MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
•							
	4960.000	Peak	43.43	-1.59	41.84	74.00	-32.16
	7440.000	Peak	44.75	3.95	48.71	74.00	-25.29
	Freq.	Detector	Peak Actual	Duty Cycle	Average	Average	Margin
		Mode	FS	Factor	Value	Limit@3m	
	MHz	AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
	4960.000	Average	41.84	-24.69	17.15	54.00	-36.85
	7440.000	Average	48.71	-24.69	24.02	54.00	-29.98

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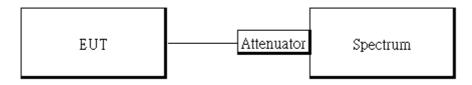
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12 FREQUENCY SEPARATION

Standard Applicable

Frequency hopping systems shall have hopping channel carrier frequencies separated by minimum of 25 kHz or the 2/3*20dB bandwidth of the hopping channel, whichever is greater.

12.2 Test Setup



12.3 **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 = middle of hopping channel.
- 5. Set the RBW approximately 30% of the channel spacing, VBW ≥ RBW.
- 6. Adjust Span to Wide enough to capture the peaks of two adjacent channels.
- 7. Sweep = auto.
- 8. Max hold. Mark 3 Peaks of hopping channel and record the 3 peaks frequency.

12.4 Measurement Result

Channel separation (MHz)	Limit	Result
1	≥25 kHz or 2/3 times 20dB bandwidth	PASS

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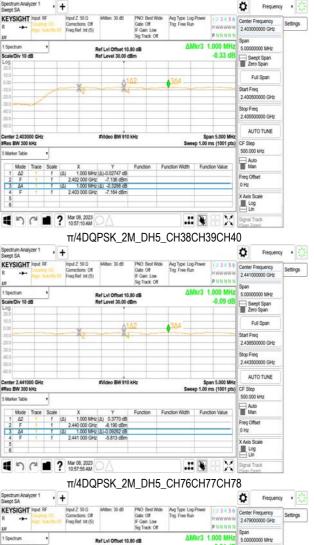


Frequency •

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π/4DQPSK 2M DH5 CH0CH1CH2

GFSK_1M_DH5_CH0CH1CH2 ٥ KEYSIGHT Input RF Settings 0.08 Full Span #Video BW 910 kH Auto Man Function Width Function Value (Δ) 1.000 MHz (Δ) 0.01001 dE 1.000 MHz (Δ) 0.010 2.402 000 GHz -6.51 1.000 MHz (Δ) 0.081 2.403 000 GHz -6.50 Freq Offse 0 Hz X Axis Scale Log Lin ■ 9 C ■ ? Mar 08, 2023 GFSK_1M_DH5_CH38CH39CH40 ٥ Frequency + KEYSIGHT Input RI 2.441000000 GHz 5.00000000 MHz Scale/Div 10 dF 0.14 Swept Span Full Span 2.438500000 GH AUTO TUNE X Y 1.000 MHz (Δ) -0.01177 dB 2.440 000 GHz -5.664 dBm 1.000 MHz (Δ) 0.1440 dB 2.441 000 GHz -5.676 dBm X Axis Sca Log Lin ■ ? Mar 08, 2023 .:: ₹ GFSK_1M_DH5_CH76CH77CH78 ٥ KEYSIGHT Ref Lvi Offset 10.80 dB Ref Level 30.00 dBm 0.01 d Swept Span Zero Span 2.476500000 GHz Stop Freq 2.481500000 GH AUTO TUNE Auto Man | (Δ) 1.000 MHz (ω) | (2.478 000 GHz | 5.341 000-| (Δ) 1.000 MHz (Δ) 0.09539 dB | (Δ) 2.479 000 GHz | 5.323 dBm Log Lin



Ref Lvl Offset 10.80 dB Ref Level 30.00 dBm 0.24 d Swept Spar Zero Span 2.476500000 GHz Stop Freq 2.481500000 GHz **AUTO TUNE** Auto Man X Y 1.000 MHz (Δ) -0.1477 dB 2.478 000 GHz -5.238 dBm 1.000 MHz (Δ) 0.2410 dB 2.479 000 GHz -5.386 dBm (Δ) Freq Offse Log Lin ■ ? Mar 08, 2023 10.58.34 AM .: W

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■ ? Mar 08, 2023



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8DPSK 3M DH5 CH0CH1CH2



8DPSK_3M_DH5_CH38CH39CH40



8DPSK 3M DH5 CH76CH77CH78



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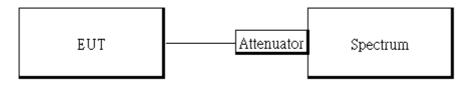
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13 NUMBER OF HOPPING FREQUENCY

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 C63.10:2013.
- 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 ≥ 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	

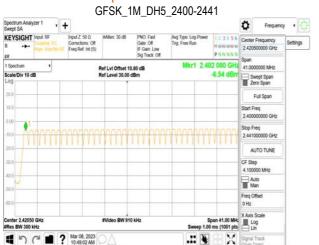
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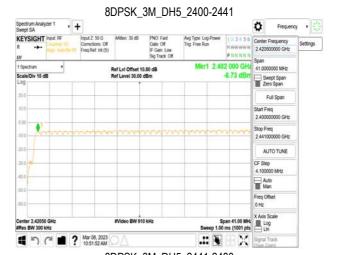
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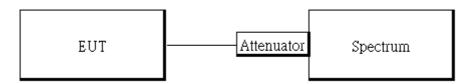
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14 TIME OF OCCUPANCY (DWELL TIME)

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 C63.10:2013.
- 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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14.4 Measurement Result GFSK (1Mbps)

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Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)
	DH1	150.40	400ms
Mid	DH3	278.40	400ms
	DH5	316.80	400ms

π/4 DQPSK (2Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)
	2DH1	155.20	400ms
Mid	2DH3	281.60	400ms
	2DH5	318.40	400ms

8-DPSK (3Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)
	3DH1	156.80	400ms
Mid	3DH3	281.60	400ms
	3DH5	320.00	400ms

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GFSK (1Mbps):

	CH Mid	DH1 time slot	=	0.470 *	(1600/2/79)	*	31.6 =	150.40	(ms)
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(1600/4/79) * 31.6 = 278.40 (ms) DH3 time slot = 1.740 *

DH5 time slot = 2.970 * (1600/6/79) * 31.6 = 316.80 (ms)

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

CH Mid $2DH1$ time slot = 0.48	35 * (1600/2/79)) * 31.6	= 155.20	(ms)
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(1600/4/79) * 2DH3 time slot = 1.760 *31.6 = 281.60 (ms)

2DH5 time slot = 2.985 * (1600/6/79) * 31.6 = 318.40 (ms)

8-DPSK (3Mbps):

CH Mid	3DH1 time slot =	0.490 *	(1600/2/79) *	31.6 =	156.80 (ms)

(1600/4/79) * 31.6 = 281.60 (ms) 1.760 * 3DH3 time slot =

(1600/6/79) * 3DH5 time slot = 3.000 * 31.6 = 320.00 (ms)

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

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Swept Span

Auto Man

Freq Offset 0 Hz

X Axis Scale
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15 ANTENNA REQUIREMENT

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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