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# ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT





Applicant: Murata Manufacturing Co., Ltd.

10-1, Higashikotari 1-chome Nagaokakyo-shi, Kyoto 617-8555 Japan

Murata Manufacturing Co., Ltd. Manufacturer:

10-1, Higashikotari 1-chome Nagaokakyo-shi, Kyoto 617-8555 Japan

**Product Name:** Communication Module

**Brand Name:** muRata Model No.: For FCC:

LBEE5XV2EA, LBEE5XV2EB

For ISED:

LBEE5XV2EA SANT, LBEE5XV2EA DANT, LBEE5XV2EB SANT, LBEE5XV2EB DANT

Model Difference: Refer to section 1.8 **Report Number:** TERF2211002256ER

FCC ID VPYLBEE5XV2EA

IC: 772C-LBEE5XV2EA

Date of EUT Received: November 08, 2022

Date of Test: November 08, 2022 ~ March 10, 2023

Issue Date: June 13, 2023

CHUN, CHIEH, CHEN

Approved By\_\_\_ CHUN-CHIEH, CHEN

### 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, ISED RSS-247.

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

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Revision History							
Report Number	Revision	Description	Issue Date	Revised By	Remark		
TERF2211002256ER	00	Original	May 04, 2023	Violetta Tang			
TERF2211002256ER	01	Remove HMN information from page 7	June 02, 2023	Violetta Tang			
TERF2211002256ER	02	Correct firmware information on page 4	June 13, 2023	Violetta Tang			

### Note:

- 1 . The remark "\*" indicates modification of the report upon requests from certification
- 2 · Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received.

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### **GENERAL INFORMATION**

#### 1.1 **Product Description**

Product Name:	Communication Module
Brand Name:	muRata
Model No.:	For FCC: LBEE5XV2EA, LBEE5XV2EB For ISED: LBEE5XV2EA_SANT, LBEE5XV2EA_DANT, LBEE5XV2EB_SANT, LBEE5XV2EB_DANT
Model Difference:	Refer to section 1.8
Hardware Version:	1.0
Firmware Version:	1.1.1.1 1.1.2.1 1.1.1.2 1.1.2.2
EUT Series No.:	ANT0: SA2022019000004030 BT_ANT: SA2022019000001046
Power Supply:	3.3Vdc, 1.8Vdc
Test Software (Name/Version)	Broadcom BlueTool / 1.9.7.9

#### 1.2 **RF Specification**

Radio Technology:	BT BR+EDR
Channel number:	79 channels
Modulation type:	GFSK + π/4DQPSK + 8DPSK
Transmit Power:	ANT0: 10.50dBm BT_ANT: 10.51dBm
Frequency Range:	2.402GHz – 2.480GHz
Dwell Time:	≦ 0.4s

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# 1.3 Antenna Designation

### ANT<sub>0</sub>

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)
	Molex	146153	2400~2500	3.2
Dipolo	Molex	219611	2400~2500	2.67
Dipole	Unictron	WT32D1-KX	2400~2500	3
	Inventek	W24P-U	2400~2500	3.2
Monopole	Murata	Type2EA_Antenna	2400~2500	2.9

### BT\_ANT

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)
Dipole	Molex	146153	2400~2500	3.2
	Molex	219611	2400~2500	2.67
	Unictron	WT32D1-KX	2400~2500	3
	Inventek	W24P-U	2400~2500	3.2

### Note:

- 1. Pre-scanned was done on the above antennas, measurements were demonstrated by using the antenna with the highest gain as the worst case scenarios.
- 2. Antenna information is provided by the applicant.

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. 险非只有的明,此想些结果做新测验之样具合善,同时此样里属是例如于。木型生主概未从司事高纯可,不可可以推测。

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## 1.4 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247 FCC KDB 558074 D01 15.247 Meas. Guidance v05r02 RSS-247 issue 2 Feb. 2017 RSS-Gen, Issue 5 April 2018 ANSI C63.10:2013

### 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 Dood 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 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Taiper City, Taiwan.	Conducted 3		
		Conducted 4		TW3702
		Conducted 5	_	
SGS Taiwan Ltd.		Conducted 6		
Central RF Lab.		Conduction C	C C	
(TAF code 3702)		SAC C		
		SAC D		
		SAC G		
	No 2 Koji 1et Pd. Cujeben Dietriet	Conducted A		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conducted B	TW0028	TW3702
	ladyuali Gity, Talwali 333	Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
		Conducted G	7	

**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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### 1.8 Model Variants

The LBEE5XV2EA\_SANT and LBEE5XV2EA\_DANT are electrically identical.

Model For ISED	Model For FCC	Chip on C101	RF functions
LBEE5XV2EA_SANT		CYW55573	2x2 WLAN2.4GHz,5GHz, 6GHz
LBEE5XV2EA_DANT	LBEE5XV2EA	C1 000073	+BT/ BLE

The LBEE5XV2EB\_SANT and LBEE5XV2EB\_DANT are electrically identical.

Model For ISED	Model For FCC	Chip on C101	RF functions
LBEE5XV2EB_SANT	LBEE5XV2EB	CYW55572	2x2 WLAN2.4GHz,5GHz
LBEE5XV2EB_DANT	LDEE3AVZED	G1 W00012	+BT/ BLE

In addition, the differences of firmware versions are

Model	Firmware versions	Antenna connector(s)	WLAN	ВТ	BLE
LBEE5XV2EA_DANT	1.1.2.1	O (ANITO ANITA DE ANIT)	ANITO ANITA	DT ANT	DT ANT
LBEE5XV2EB_DANT	1.1.2.2	3 (ANT0, ANT1, BT_ANT)	ANT0, ANT1	BT_ANT	BT_ANT
LBEE5XV2EA_SANT	1.1.1.1	2 (ANITO ANITA)	ANITO ANIT1	ANT0	ANT0
LBEE5XV2EB_SANT	1.1.1.2	2 (ANT0, ANT1)	ANT0, ANT1	ANTO	ANTO

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## 2 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.

### 2.3 Test Procedure

#### 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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## **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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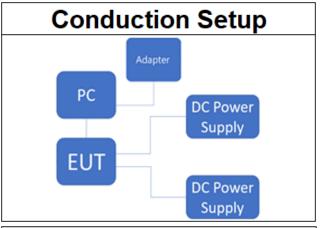
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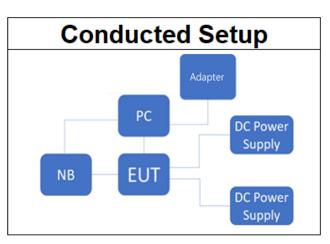


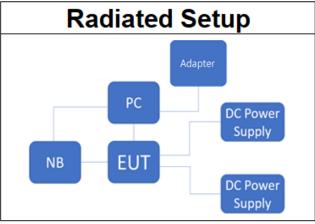
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## **Test Configuration**







#### 2.6 Control Unit(s)

AC Power-Line Conducted Emission Test Site: Conduction 1						
EQUIPMENT TYPE	EQUIPMENT TYPE MFR MODEL NUMBER SERIAL NUMBER LAST CAL. CAL DUE.					
PC	PC GIGABYTE GB-BXI7H-4500 N/A N/A N/A					
Adapter FSP GROUP INC. FSP065-REB N/A N/A N/A						

Conducted Emission Test Site: Conducted 2						
EQUIPMENT TYPE MFR MODEL NUMBER SERIAL NUMBER LAST CAL. CAL DUE.						
PC	PC GIGABYTE GB-BXI7H-4500 N/A N/A N/A					
Adapter	FSP GROUP INC.	FSP065-REB	N/A	N/A	N/A	
Notebook	Lenovo	T440P	PC-014TAK	N/A	N/A	

Radiated Emission Test Site: SAC 2							
EQUIPMENT TYPE MFR MODEL NUMBER SERIAL NUMBER LAST CAL. CAL DUE							
PC	GIGABYTE	GB-BXI7H-4500	N/A	N/A	N/A		
Adapter	FSP GROUP INC.	FSP065-REB	N/A	N/A	N/A		
Notebook	Lenovo	T440P	PC-06L5W6	N/A	N/A		

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## 3 SUMMARY OF TEST RESULTS

FCC Rules	ISED Rules	Description Of Test	Result
§15.207(a)	RSS-Gen §8.8	AC Power Line Conducted Emission	Compliant
§15.247(b)(1)	RSS-247 §5.4 b	Peak Output Power	Compliant
§15.247(a)(1)	RSS-247 §5.1 b RSS-Gen §6.7	Emission Bandwidth	Compliant
§15.205 §15.209 §15.247(d)	RSS-247 §5.5 RSS-Gen §8.9 RSS-Gen §8.10	Conducted & Radiated Band Edge and Spurious Emission	Compliant
§15.247(a)(1)	RSS-247 §5.1 b	Frequency Separation	Compliant
§15.247(a)(1)(iii)	RSS-247 §5.1 d	Number of hopping frequency Time of Occupancy	Compliant
§15.203	N/A	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	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
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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### The Worst Test Modes and Channel Details

- The EUT has been tested under operating condition.
- Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
- 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.
- 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			
	Peak O	utput Power, 20dB	Band Width				
	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 Separa	ition				
Bluetooth	0 to 78	0,1,2,38,39,40,76, 77,78	GFSK π/4-DQPSK 8-DPSK	DH5 2DH5 3DH5			
	Number of Hop	ping Frequency, F	lopping Band edg	е			
Bluetooth	0 to 78	0 to 78	GFSK/8-DPSK	DH5/3DH5			
	Time	of Occupancy(Dw	vell time)				
			GFSK	DH1/DH3/DH5			
Bluetooth	0 to 78 39	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	DH5
	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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### 5 MEASUREMENT UNCERTAINTY

Test Items	l	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	°C
Humidity	+/-	3	%
DC / AC Power Source		1	%

Radiated Spurious Emission Measurement Uncertainty					
Polarization: Vertical	+/-	2.8	dB	9kHz~30MHz	
	+/-	4.82	dB	30MHz - 1000MHz	
	+/-	4.37	dB	1GHz - 18GHz	
	+/-	4.21	dB	18GHz - 40GHz	
	+/-	2.8	dB	9kHz~30MHz	
Polarization: Horizontal	+/-	4.54	dB	30MHz - 1000MHz	
	+/-	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** 6.1

AC Power-Line Conducted Emission Test Site: Conduction 1							
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.		
EMI Test Receiver	R&S	ESR 7	102525	02/18/2023	02/17/2024		
Pulse Limiter	SCHWARZBECK	VTSD 9561F-N	793	06/22/2022	06/21/2023		
LISN	SCHWARZBECK	NSLK 8127	01040	08/23/2022	08/22/2023		
LISN	SCHWARZBECK	NSLK 8127	01041	10/25/2022	10/24/2023		
Coaxial Cables	Coaxial Cables EMC Instruments Corp.		161207	06/22/2022	06/21/2023		
DC Power Supply	Agilent	E3640A	MY40005907	10/07/2022	10/06/2023		
DC Power Supply	Agilent	E3640A	KR93300208	09/08/2022	09/07/2023		
Test Software	audix	e3	Ver. 9 210322	N.C.R	N.C.R		

#### 6.2 **Conducted Measurement**

Conducted Emission Test Site: Conducted 2								
EQUIPMENT TYPE	MFR	MODEL NUMBER SERIAL NUMBER		LAST CAL.	CAL DUE.			
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071541	07/14/2022	07/13/2023			
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R			
Power Meter	Anritsu	ML2496A	2132007	09/21/2022	09/20/2023			
Power Sensor	Anritsu	MA2411B	1911391	09/21/2022	09/20/2023			
Power Sensor	Anritsu	MA2411B	1911392	09/21/2022	09/20/2023			
DC Power Supply	Agilent	E3640A	MY40005907	10/07/2022	10/06/2023			
DC Power Supply	Gwinstek	SPS-3610	GEV856761	09/13/2022	09/12/2023			
DC Block	Mini-Circuits	BLK-18-S+	1	12/14/2021	12/13/2022			
DC Block	Mini-Circuits	BLK-18-S+	1	12/13/2022	12/12/2023			

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### **Radiated Measurement**

Radiated Emission Test Site: SAC 2							
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.		
Horn Antenna	RF SPIN	DRH18-E	210303A18-ES	02/24/2022	02/23/2023		
Bi-log Antenna	SCHWARZBECK	VULB9168	9168-1278	02/25/2022	02/24/2023		
Loop Antenna	ETS.LINDGREN	6502	148045	10/05/2022	10/04/2023		
Horn Antenna	SCHWARZBECK	BBHA9170	184	12/30/2022	12/29/2023		
EXA Spectrum	KEYSIGHT	N9010B	MY59071541	07/14/2022	07/13/2023		
Test Software	Audix	e3	Ver. 9.210322	N.C.R	N.C.R		
DC Power Supply	Agilent	E3640A	MY40005907	10/07/2022	10/06/2023		
DC Power Supply	Agilent	E3640A	KR93300208	09/08/2022	09/07/2023		
EMI Test Receiver	R&S	ESCI 7	100759	08/22/2022	08/21/2023		
Pre-Amplifier	EMCI	EMC330N	980826	08/31/2022	08/30/2023		
Pre-Amplifier	EMCI	EMC118A45SEE	980867	08/31/2022	08/30/2023		
Pre-Amplifier	EMCI	EMC184045B	980135	10/27/2022	10/26/2023		
Attenuator	Mini-Circuit	BW-S10W2+	2	12/13/2022	12/12/2023		
Bandreject Filter	EWT	EWT-14-0166	M1	12/13/2022	12/12/2023		
4GHz High Pass Filter	WI	WHKX4.0/18G-10SS	22	12/13/2022	12/12/2023		
Coaxial Cables	EMCI	EMCCFD400-NM-NM-	RX Cable below 1G	08/31/2022	08/30/2023		
Coaxial Cables	EMCI	EMC104-SM-SM-600	RX Cable below 1G	08/31/2022	08/30/2023		
Coaxial Cables	EMCI	EMC105-SM-SM-2000	RX Cable below 1G	08/31/2022	08/30/2023		
Coaxial Cables	EMCI	EMC104-SM-SM-10000	RX Cable above 1G	08/31/2022	08/30/2023		
Coaxial Cables	EMCI	EMC105-SM-SM-1000	RX Cable above 1G	08/31/2022	08/30/2023		
Coaxial Cables	EMCI	EMC105-SM-SM-1500	RX Cable above 1G	08/31/2022	08/30/2023		
Coaxial Cables	EMCI	EMC105-SM-SM-2000	RX Cable above 1G	08/31/2022	08/30/2023		
Coaxial Cables	EMCI	EMCCFD400-NM-NM-	RX Cable below 30M	08/31/2022	08/30/2023		
Coaxial Cables	EMCI	EMC105-SM-SM-2000	RX Cable below 30M	08/31/2022	08/30/2023		
Site Cal	SGS	SAC 2	N/A	08/31/2022	08/30/2023		

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

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### 7 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		

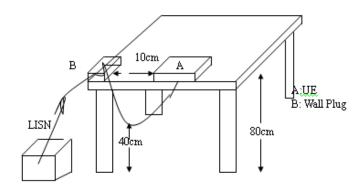
#### Note

- 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.

### 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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## AC POWER LINE CONDUCTED EMISSION TEST DATA

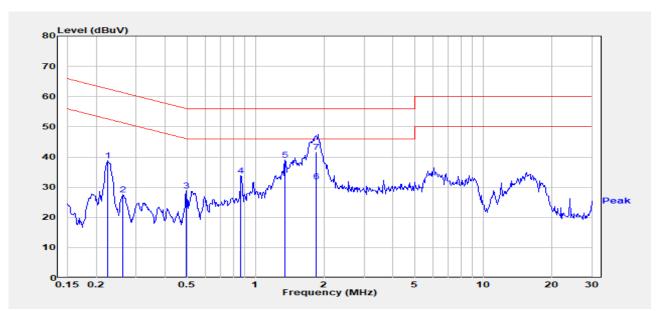
### ANT<sub>0</sub>

Report Number :TERF2211002256ER Test Site :Conduction 1

Test Mode :Operation (BT) Test Date :2023-03-02

Power :120V/60Hz Temp./Humi. :23.8/52

Probe :L Engineer :Ricky Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
0.225	Peak	28.56	10.25	38.81	62.62	-23.81
0.263	Peak	17.36	10.25	27.61	61.34	-33.73
0.497	Peak	18.63	10.25	28.89	56.05	-27.16
0.864	Peak	23.39	10.34	33.73	56.00	-22.27
1.349	Peak	28.33	10.67	39.00	56.00	-17.00
1.847	Average	20.89	11.00	31.89	46.00	-14.11
1 847	ΩP	30.62	11 00	41 62	56.00	-14 38

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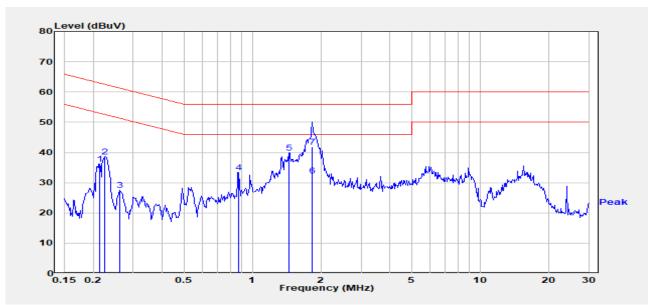
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Report Number :TERF2211002256ER **Test Site** :Conduction 1

Test Mode :Operation (BT) **Test Date** :2023-03-02

Power :120V/60Hz Temp./Humi. :23.8/52

**Probe** :N :Ricky Chen Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
0.214	Peak	25.98	10.25	36.23	63.07	-26.83
0.224	Peak	28.40	10.25	38.65	62.68	-24.04
0.263	Peak	17.18	10.25	27.43	61.34	-33.91
0.870	Peak	23.12	10.34	33.46	56.00	-22.54
1.445	Peak	29.15	10.74	39.89	56.00	-16.11
1.833	Average	21.35	10.99	32.34	46.00	-13.66
1.833	QP	30.76	10.99	41.75	56.00	-14.25

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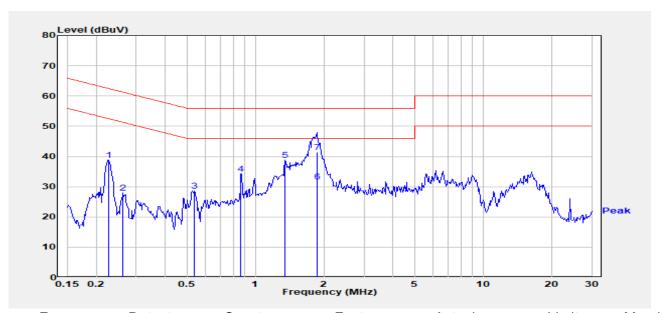
## **BT ANT**

Report Number :TERF2211002256ER Test Site :Conduction 1

Test Mode :Operation (BT) Test Date :2023-03-02

Power :120V/60Hz Temp./Humi. :23.8/52

Probe :L Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS		
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
0.227	Peak	28.49	10.25	38.74	62.56	-23.81
0.263	Peak	17.77	10.25	28.02	61.34	-33.32
0.537	Peak	18.31	10.26	28.57	56.00	-27.43
0.864	Peak	23.92	10.34	34.26	56.00	-21.74
1.349	Peak	28.17	10.67	38.84	56.00	-17.16
1.862	Average	20.74	11.01	31.75	46.00	-14.25
1.862	QP	30.43	11.01	41.44	56.00	-14.56

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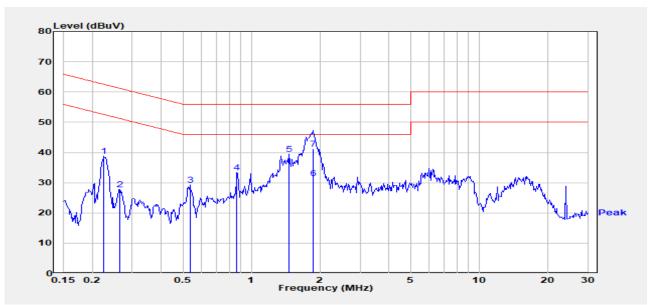
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Report Number :TERF2211002256ER Test Site :Conduction 1

Test Mode :Operation (BT) Test Date :2023-03-02

Power :120V/60Hz Temp./Humi. :23.8/52

Probe :N Engineer :Ricky Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
0.225	Peak	28.50	10.25	38.75	62.62	-23.87
0.265	Peak	17.45	10.25	27.70	61.28	-33.58
0.537	Peak	19.01	10.26	29.27	56.00	-26.73
0.864	Peak	23.02	10.34	33.36	56.00	-22.64
1.467	Peak	28.77	10.76	39.53	56.00	-16.47
1.862	Average	20.49	11.01	31.50	46.00	-14.50
1.862	QP	30.26	11.01	41.27	56.00	-14.73

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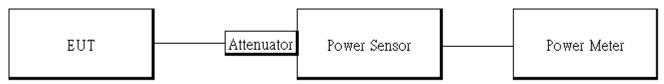
### PEAK OUTPUT POWER MEASUREMENT

#### 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.

The e.i.r.p. shall not exceed 4 W.

#### 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

#### ANT0

1M BR mode (Peak):

СН	Freq. (MHz)	Power set	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	0	10.50	11.220	1000
Mid	2441	0	10.35	10.839	1000
High	2480	0	9.82	9.594	1000

#### 1M BR mode (Average):

TWI DR HIOUE (Average):							
СН	Freq. (MHz)	Power set	Max. Avg.Output include tune up tolerance Power (dBm)	Output Power (mW)	Limit (mW)		
Low	2402	0	10.38	10.905	1000		
Mid	2441	0	10.26	10.608	1000		
High	2480	0	9.73	9.389	1000		

#### 2M EDR mode (Peak):

СН	Freq. (MHz)	Power set	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	0	8.90	7.762	125
Mid	2441	0	8.82	7.621	125
High	2480	0	7.86	6.109	125

#### 2M EDR mode (Average):

Ziw EDK mode (Average).							
СН	Freq. (MHz)	Power set	Max. Avg.Output include tune up tolerance Power (dBm)	Output Power (mW)	Limit (mW)		
Low	2402	0	6.38	4.341	125		
Mid	2441	0	6.17	4.137	125		
High	2480	0	5.98	3.959	125		

#### 3M EDR mode (Peak):

СН	Freq. (MHz)	Power set	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	0	9.23	8.375	125
Mid	2441	0	9.21	8.337	125
High	2480	0	8.24	6.668	125

#### 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	0	6.43	4.392	125
Mid	2441	0	6.33	4.292	125
High	2480	0	6.00	3.978	125

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

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### **BT ANT**

1M BR mode (Peak):

СН	Freq. (MHz)	Power set	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	0	10.28	10.666	1000
Mid	2441	0	10.34	10.814	1000
High	2480	0	10.51	11.246	1000

#### 2M EDR mode (Peak):

	-				
СН	Freq. (MHz)	Power set	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	0	8.73	7.464	125
Mid	2441	0	8.82	7.621	125
High	2480	0	8.25	6.683	125

#### 3M EDR mode (Peak):

СН	Freq. (MHz)	Power set	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	0	9.03	7.998	125
Mid	2441	0	8.92	7.798	125
High	2480	0	8.54	7.145	125

#### 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	0	10.10	10.224	1000	
Mid	2441	0	10.01	10.015	1000	
High	2480	0	10.19	10.439	1000	

#### 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	0	6.46	4.422	125
Mid	2441	0	6.42	4.382	125
High	2480	0	6.04	4.015	125

### 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	0	6.48	4.450	125
Mid	2441	0	6.21	4.182	125
High	2480	0	6.01	3.994	125

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

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### 8.5 EIRP Measurement Result

#### ANT<sub>0</sub>

### 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	0	10.38	3.20	22.784	4000
Mid	2441	0	10.26	3.20	22.164	4000
High	2480	0	9.73	3.20	19.617	4000

### 2M 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	0	6.38	3.20	9.071	4000
Mid	2441	0	6.17	3.20	8.642	4000
High	2480	0	5.98	3.20	8.273	4000

### 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	0	6.43	3.20	9.176	4000
Mid	2441	0	6.33	3.20	8.967	4000
High	2480	0	6.00	3.20	8.311	4000

\* Note: EIRP = Average Power + Gain

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## **BT ANT**

### 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	0	10.10	3.20	21.362	4000
Mid	2441	0	10.01	3.20	20.924	4000
High	2480	0	10.19	3.20	21.809	4000

### 2M 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	0	6.46	3.20	9.239	4000
Mid	2441	0	6.42	3.20	9.155	4000
High	2480	0	6.04	3.20	8.388	4000

## 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	0	6.48	3.20	9.298	4000
Mid	2441	0	6.21	3.20	8.737	4000
High	2480	0	6.01	3.20	8.344	4000

\* Note: EIRP = Average Power + Gain

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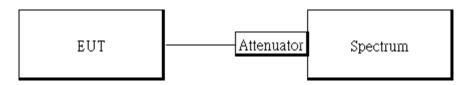
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### **EMISSION BANDWIDTH MEASUREMENT**

### 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. Set the spectrum analyzer as

RBW= 1 % to 5% of 99% Bandwidth,

VBW ≥ 3 X RBW,

Span= large enough to capture all products of the modulation process,

Sweep=auto,

Detector = Peak, and Max hold for 99% Bandwidth test.

- 7. Mark the peak frequency and 99%dB (upper and lower) frequency
- 8. 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	0.9802	0.65
Mid	0.9812	0.65
High	0.9804	0.65

### π/4-DQPSK

СН	20 dB BW (MHz)	2/3 BW (MHz)
Low	1.333	0.89
Mid	1.334	0.89
High	1.331	0.89

#### 8-DPSK

СН	20 dB BW (MHz)	2/3 BW (MHz)
Low	1.312	0.87
Mid	1.312	0.87
High	1.314	0.88

### BT\_ANT

### **GFSK**

СН	20 dB BW (MHz)	2/3 BW (MHz)
Low	0.9376	0.63
Mid	0.9404	0.63
High	0.9395	0.63

### π/4-DQPSK

СН	20 dB BW	2/3 BW
СП	(MHz)	(MHz)
Low	1.352	0.90
Mid	1.352	0.90
High	1.349	0.90

### 8-DPSK

СН	20 dB BW	2/3 BW
СП	(MHz)	(MHz)
Low	1.311	0.87
Mid	1.311	0.87
High	1.314	0.88

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### **GFSK**

OI OIX	
СН	99% BW (MHz)
Low	0.90674
Mid	0.90535
High	0.90656

### π/4-DQPSK

СН	99% BW (MHz)
Low	1.1939
Mid	1.1954
High	1.1937

### 8-DPSK

СН	99% BW
	(MHz)
Low	1.2018
Mid	1.2031
High	1.2011

### BT\_ANT

### **GFSK**

СН	99% BW (MHz)
Low	0.86817
Mid	0.86782
High	0.86827

## π/4-DQPSK

СН	99% BW
	(MHz)
Low	1.2022
Mid	1.2006
High	1.1995

### 8-DPSK

СН	99% BW (MHz)
Low	1.2072
Mid	1.2055
High	1.2027

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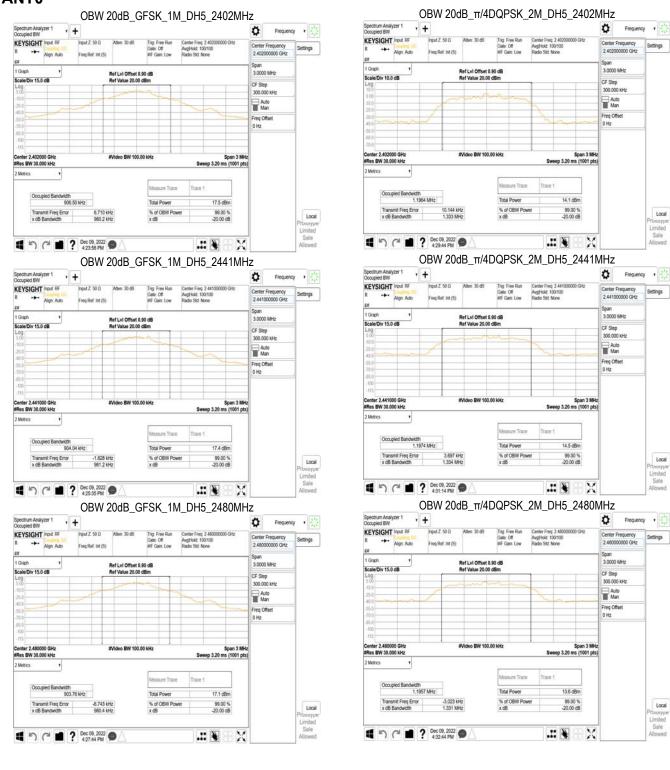
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#### **BT ANT** OBW 20dB 8DPSK 3M DH5 2402MHz OBW 20dB GFSK 1M DH5 2402MHz ctrum Analyzer 1 Frequency + ٥ KEYSIGHT Input RF KEYSIGHT Input RF Settings Settings Align: Auto Span 3.0000 MHz Ref Lvi Offset 0.90 dB 1 Graph Ref Lvl Offset 0.90 dB Ref Value 20.00 dBm Scale/Div 15.0 dB CF Step 300.000 kHz CF Step 300,000 kHz Auto Man Auto Man Freq Offset 0 Hz Freq Offset 0 Hz Center 2.402000 GHz #Res BW 30.000 kHz #Res BW 30,000 kHz Sweep 3.20 ms (1001 pts) leasure Trace Occupied Bank Occupied Bandwidth 868,14 kHz 1.2048 MHz Total Powe 14.4 dBm Total Power 17.8 dBm Transmit Freq Error x dB Bandwidth % of OBW Power x dB 99.00 % -20.00 dB Local % of OBW Power Local 1 5 C 1 ? Dec 09, 2022 6 .: 🔻 - X 1 5 C 1 ? Dec 09, 2022 .: W - X OBW 20dB\_8DPSK\_3M\_DH5\_2441MHz OBW 20dB GFSK 1M DH5 2441MHz Frequency + 212 ٥ Ö Frequency + KEYSIGHT Input RF KEYSIGHT Input RF Settings Settings 2 44100 1 Graph 3,0000 MHz Scale/Div 10.0 dB Scale/Div 15.0 dB CF Step 300,000 kHz Auto Man Auto Man Freq Offset 0 Hz Freq Offset Span 3 Mi ep 3.20 ms (1001 pt leasure Trace leasure Trace Occupied Bandwidth 868,12 kHz Occupied Bandwidth 1,2057 MHz Total Powe 14.7 dBm Transmit Freq Error % of OBW Power x dR % of OBW Pox x dB ■ 9 Pec 09, 2022 ● .: 🖫 🖁 X ■ 1 C ■ ? Dec 09, 2022 ● .:: 🗑 - X OBW 20dB\_8DPSK\_3M\_DH5\_2480MHz OBW 20dB GFSK 1M DH5 2480MHz Ö Frequency • Spectrum Analyzer 1 ٥ KEYSIGHT Input RF Trig Free Run Gate: Off HF Gain: Low KEYSIGHT Input RF Settings 3.0000 MHz Ref Lvl Offset 0.90 dB Ref Value 20.00 dBm 3,0000 MHz Ref Lvl Offset 0.90 dB Scale/Div 10.0 dB CF Step 300.000 kHz Auto Man Auto Man Freq Offset 0 Hz Freq Offset 0 Hz Sweep 3.20 ms (1001 pts) Trace 1 Occupied Bandwidth 1,2043 MHz Occupied Bandw Total Powe 14.0 dBm 869.52 kHz

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% of OBW Pow x dB

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Transmit Freq Error x dB Bandwidth

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Transmit Freq Error x dB Bandwidth

■ 1 C ■ ? Dec 09, 2022 ●

Total Power

% of OBW Power x dB

16.9 dBm

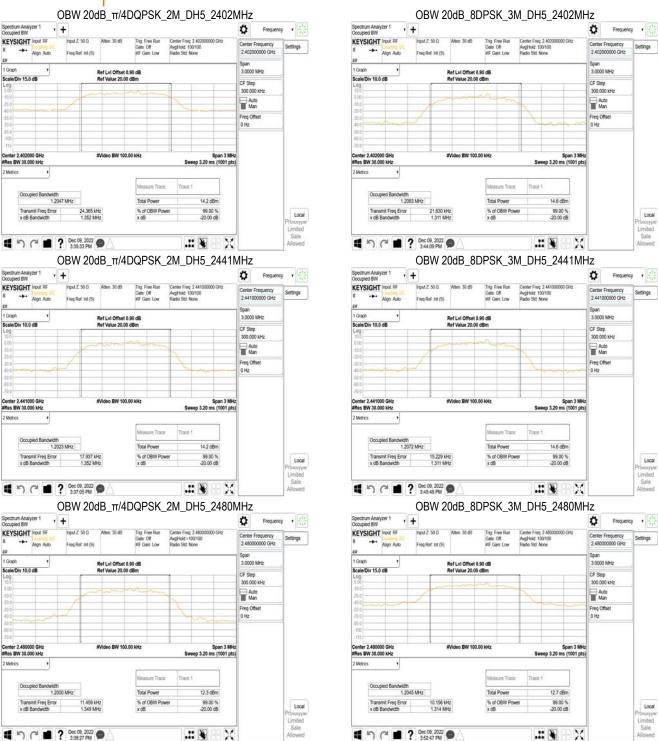
99.00 % -20.00 dB

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Local



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Settings

Local

Settings

Local

Frequency •

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### ANT0



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#### **BT ANT** IC OBW 99% 8DPSK 3M DH5 2402MHz IC OBW 99% GFSK 1M DH5 2402MHz ctrum Analyzer 1 Frequency + 215 ٥ KEYSIGHT Input RF KEYSIGHT Input RF Input Z 50 0 Settings Settings Align: Auto Span 2.0000 MHz Ref Lvi Offset 0.90 dB Ref Value 20.00 dBm 1 Graph Ref Lvl Offset 0.90 dB Ref Value 20.00 dBm cale/Div 10.0 dB CF Step 200.000 kHz CF Step 200,000 kHz Auto Man Auto Man Freq Offset 0 Hz Freq Offset 0 Hz Center 2.402000 GHz #Res BW 30.000 kHz Span 2 MHz Sweep 2.13 ms (1001 pts) #Res BW 30,000 kHz Sweep 2.13 ms (1001 pts) leasure Trace Occupied Bank Occupied Bandwidth 868,17 kHz 1.2018 MHz Total Powe 14.4 dBm Total Power 17.8 dBm Transmit Freq Error x dB Bandwidth % of OBW Power x dB 99.00 % -20.00 dB Transmit Freq Error Local % of OBW Power Local 1 5 C 1 ? Dec 09, 2022 .: 🔻 - X .: W - X IC OBW 99%\_8DPSK\_3M\_DH5\_2441MHz IC OBW 99% GFSK 1M DH5 2441MHz Frequency + ٥ Ö Frequency + KEYSIGHT Input RF KEYSIGHT Input RF Settings Settings 2 44100 Freq Ret Int (S) 1 Graph 2.0000 MHz Scale/Div 10.0 dB Scale/Div 15.0 dB CF Step 200.000 kHz Auto Man Auto Man Freq Offset 0 Hz Freq Offset 0 Hz Span 2 M. nep 2.13 ms (1001 pt #Video BW 100.00 kHz leasure Trace leasure Trace Occupied Bandwidth 867.82 kHz Occupied Bandwidth 1,2031 MHz Total Powe 14.7 dBm Total Powe 17.6 dBr Transmit Freq Error % of OBW Power x dR % of OBW Pox x dB Local 1 9 C 1 ? Dec 09, 2022 .: ¥ - X ■ ? Dec 09, 2022 ● 330.29 PM .:: 🗑 - X IC OBW 99%\_8DPSK\_3M\_DH5\_2480MHz IC OBW 99% GFSK 1M DH5 2480MHz Ö Frequency • Spectrum Analyzer 1 ٥ KEYSIGHT Input RF Trig Free Run Gate: Off HF Gain: Low KEYSIGHT Input RF Settings Settings 2,0000 MHz Ref Lvi Offset 0.90 dB Ref Value 20.00 dBm 2,0000 MHz Ref Lvl Offset 0.90 dB Scale/Div 10.0 dB CF Step 200,000 kHz Auto Man Auto Man Freq Offset 0 Hz Freq Offset 0 Hz Span 2 M Sweep 2.13 ms (1001 p Res BW 30.000 kHz Sweep 2.13 ms (1001 pts) Trace 1 Occupied Bandwidth 1,2011 MHz Occupied Bandw Total Powe 14.0 dBm 668.27 kHz Total Power 16.9 dBm % of OBW Pow x dB Transmit Freq Error x dB Bandwidth

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Transmit Freq Error x dB Bandwidth

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% of OBW Power x dB

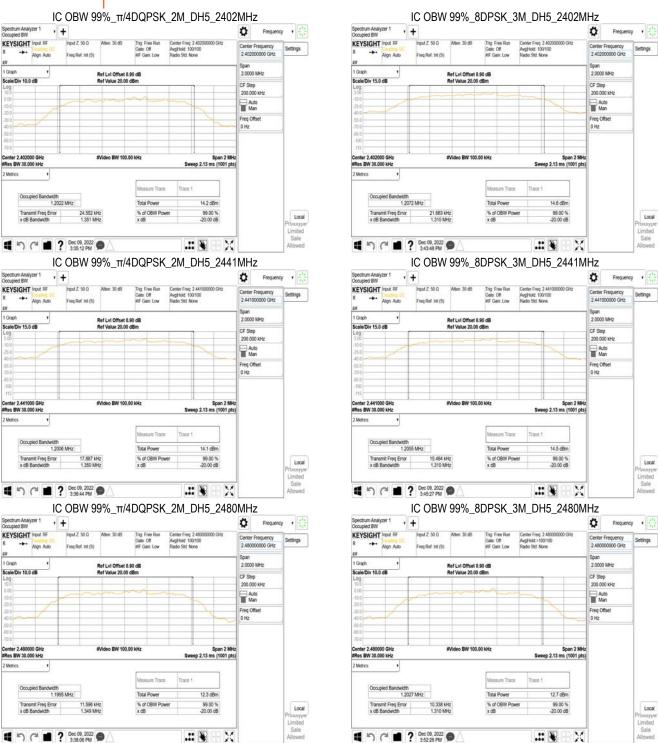
99.00 % -20.00 dB

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Local



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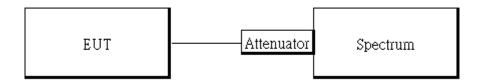
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## 10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

### 10.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a) & RSS-Gen §8.10, must also comply with the radiated emission limits specified in §15.209(a) & RSS-Gen §8.9.

### 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.
- 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.

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10.4 Measurement Result

See next page for test plots.

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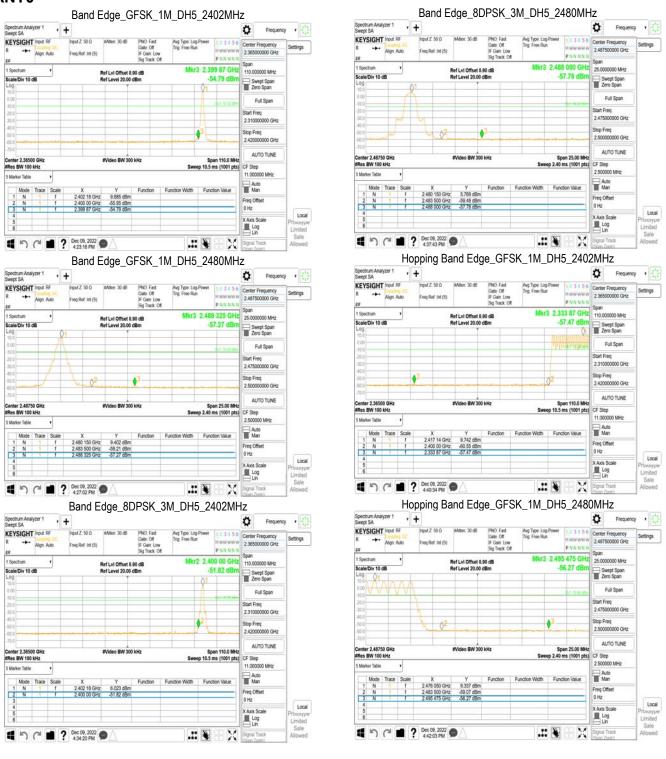
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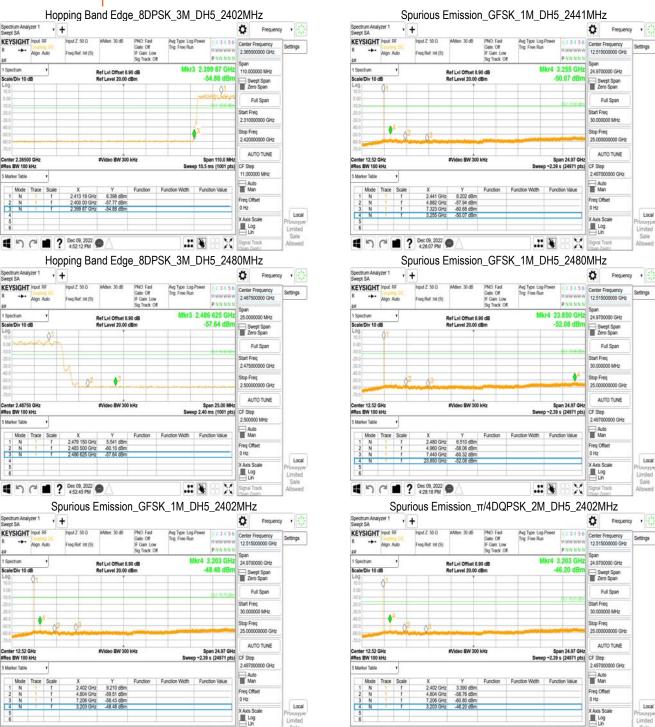
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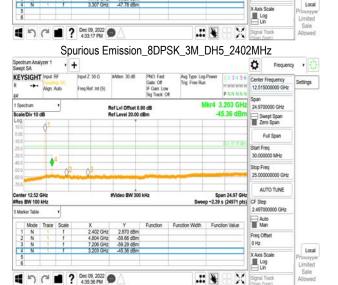
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#### Spurious Emission π/4DQPSK 2M DH5 2441MHz ٥ PNO Fast Gate Off IF Gain Low Sig Track Off KEYSIGHT Input RF wt 7 50 0 Center Frequency 12.515000000 GHz Mkr4 3.255 GH Scale/Div 10 dB Swept Span Zero Span Full Span Center 12.52 GHz #Res BW 100 kHz an 24.97 GI Auto Man Mode Trace Sci Function Width Function Value Freq Offset 0 Hz Local X Axis Scale Log Lin ■ 1 C ■ ? Dec 09, 2022 ● .:: ₹ X Sq Spurious Emission\_π/4DQPSK\_2M\_DH5\_2480MHz Frequency • ٥ KEYSIGHT Input RF Free Ref: Int (S) 12.515000000 GHz 24.9700000 GHz Scale/Div 10 dB -47.78 d Swept Span Zero Span Full Span 30.000000 MHz . AUTO TUNE Auto Man



Spurious Emission 8DPSK 3M DH5 2441MHz ٥ KEYSIGHT Input RF wt 7 50 0 12.515000000 GHz Settings Mkr4 3.255 GH Scale/Div 10 df Swept Span Zero Span Full Span ter 12.52 GH n 24.97 GI Res BW 100 kHz Auto Man Mode Trace Sc Function Width Function Value Freq Offset 0 Hz Local X Axis Scale Log Lin ■ ? Dec 09, 2022 ● .:: 🔻 X Spurious Emission\_8DPSK\_3M\_DH5\_2480MHz



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Band Edge 8DPSK 3M DH5 2480MHz

# **BT ANT**



٥ Span 25.0000000 MHz r3 2,484 275 GHz Ref Lvl Offset 0.90 dB Ref Level 20.00 dBm Swept Span Zero Span 2.475000000 GHz Stop Freq 2.500000000 GH AUTO TUNE Auto Man Freq Offset 0 Hz Local X Axis Sca Log Lin .: 🖫 🖹 X Hopping Band Edge\_GFSK\_1M\_DH5\_2402MHz ٥ Settings Mkr3 2.370 72 GH Swept Span Zero Span Full Span

.:: 🔖 Hopping Band Edge\_GFSK\_1M\_DH5\_2480MHz ٥ 2.487500000 GHz Ref Lvi Offset 0.90 dB Ref Level 20.00 dBm 25.0000000 MHz -57.87 dl Swept Span Zero Span Full Span 2.475000000 GHz Stop Freq 2.500000000 GHz AUTO TUNE Auto Man X Axis Scal .:: 🤻

Auto Man

Freq Offset 0 Hz

X Axis Scale Log Lin

Local

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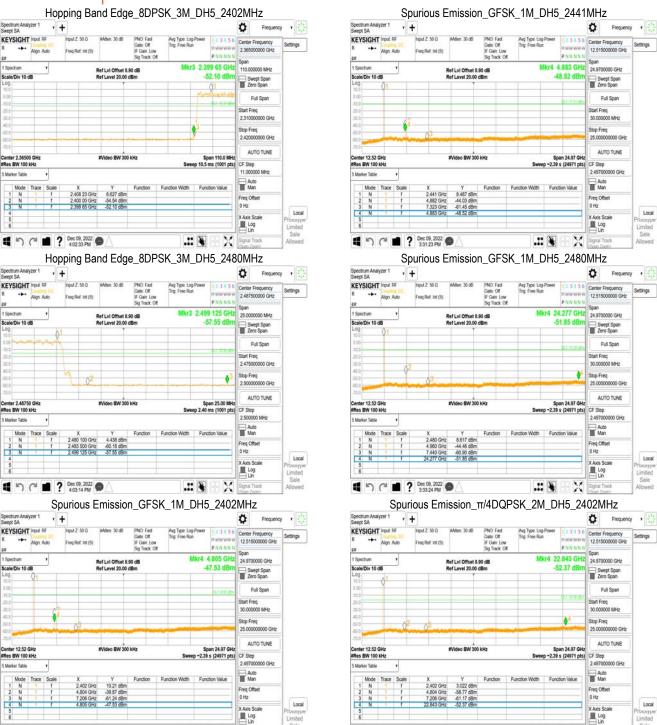
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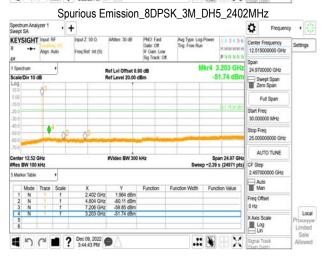
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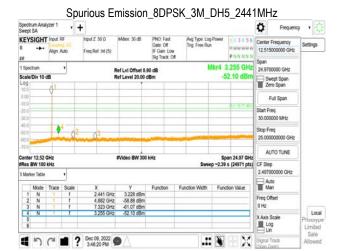


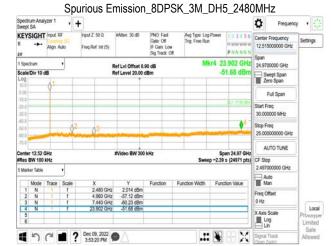
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#### Spurious Emission π/4DQPSK 2M DH5 2441MHz ٥ PNO Fast Gate Off IF Gain Low Sig Track Off KEYSIGHT Input RF wt 7 50 0 Center Frequency 12.515000000 GHz PNNN r4 23,845 GH Scale/Div 10 dB -51.23 d Swept Span Zero Span Full Span 04 Center 12.52 GHz #Res BW 100 kHz an 24.97 GI Auto Man Mode Trace Sc Function Width Function Value Freq Offset 0 Hz Local X Axis Scale Log Lin ■ 1 C ■ ? Dec 09, 2022 ● .:: ₹ X Sq Spurious Emission\_π/4DQPSK\_2M\_DH5\_2480MHz ٥ Frequency • KEYSIGHT Input RF Free Ref: Int (S) 12.515000000 GHz 24.9700000 GHz Scale/Div 10 dB -52.16 Swept Span Zero Span Full Span 30.000000 MHz .









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## 11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

## Standard Applicable

#### 11.1.1 **Duty Cycle Correction Factor**

According to 15. 35(c) and RSS-Gen §8.2, 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 RSS-Gen §8.9 Table 5 and 6 limit as below.

And according to §15.33(a) (1) & RSS-Gen §6.13.2.a, for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

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

## Note:

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

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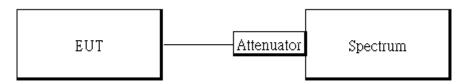


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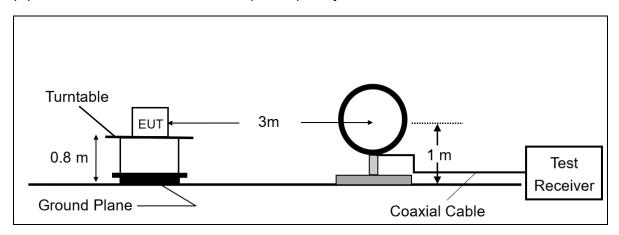
## **Test Setup**

#### 11.2.1 **Duty Cycle Correction Factor**

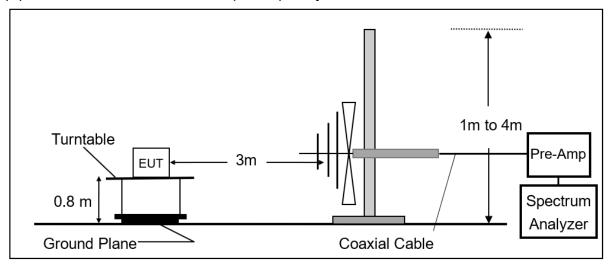


#### 11.2.2 **Radiated Emission**

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



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



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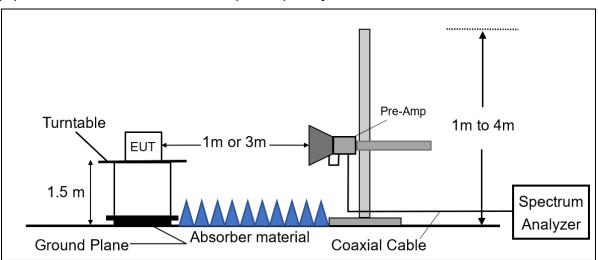
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## (C) Radiated Emission Test Set-Up, Frequency Above 1 GHz.



#### 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

- 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 $\mu$ V/m) = SPA. Reading level(dB $\mu$ 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) & RSS-GEN §6.13.2 was not reported.

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## **Measurement Result:**

### 11.6.1 **Duty Cycle Correction Factor** ANTO (monopole)

## Bluetooth 1M

Time ON of 100ms:	5.600	ms	
Duty Cycle=5.6ms / 10	00m 0.056	%	
Duty Cycle correction f	actor=20 LOG 0	0.056= -25.04	dB

# Bluetooth 3M

Time ON of 100ms:	5.800	ms	
Duty Cycle=5.8ms / 100m	0.058	%	
Duty Cycle correction facto	r=20 LOG 0.058=	-24.73	dB

# ANTO (dipole)

## Bluetooth 1M

Time ON of 100ms:	5.600	ms	
Duty Cycle=5.6ms / 100m	0.056	%	
Duty Cycle correction factor	or=20 L(	OG 0.056= -25.04	dB

## Bluetooth 3M

Time ON of 100ms:	5.600	ms	
Duty Cycle=5.6ms / 10	0m 0.056	%	
Duty Cycle correction fa	actor=20 LOG	0.056= -25.04	dB

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## Bluetooth 1M

Time ON of 100ms: 5.800 ms Duty Cycle=5.8ms / 100m 0.058 Duty Cycle correction factor=20 LOG 0.058= -24.73 dΒ

## Bluetooth 3M

Time ON of 100ms:	5.400	ms	
Duty Cycle=5.4ms / 10	00m 0.054	%	
Duty Cycle correction	factor=20 LOG 0	.054= -25.35	dB

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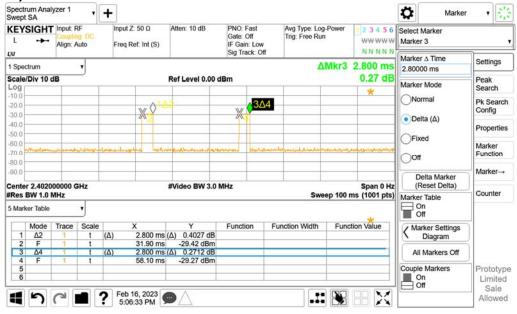
#### 11.6.2 **Duty Cycle test plot**

# BR

# ANT0 (monopole)



## ANTO (dipole)



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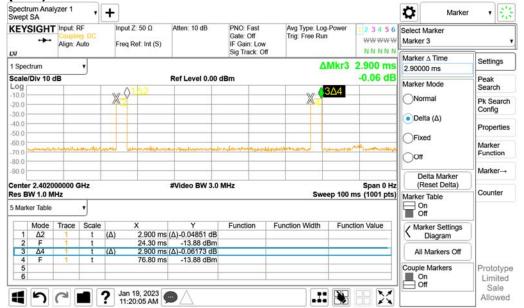
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# **EDR** ANTO (monopole)



## ANTO (dipole)



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# BT\_ANT (dipole)



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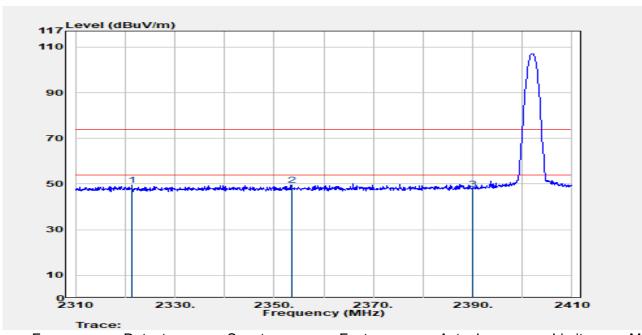
# 11.6.3 Bandedge Result ANT0 (monopole)

Report Number :TERF2211002256ER Test Site :SAC 2

Operation Mode :BR Test Date :2023-02-20

Test Frequency :2402 MHz Temp./Humi. :22.7/60
Test Mode :Bandedge Antenna Pol. :Vertical

EUT Pol :H Plane Engineer :Ricky Chen



II C	CC.					
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2321.400	Peak	53.93	-4.35	49.58	74.00	-24.42
2353.600	Peak	54.06	-4.38	49.68	74.00	-24.32
2390.000	Peak	51.97	-4.25	47.72	74.00	-26.28

Freq. (MHz)	Detector	Peak Actual FS (dBµV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2321.400	Average	49.58	-25.04	24.54	54.00	-29.46
2353.600	Average	49.68	-25.04	24.64	54.00	-29.36
2390.000	Average	47.72	-25.04	22.68	54.00	-31.32

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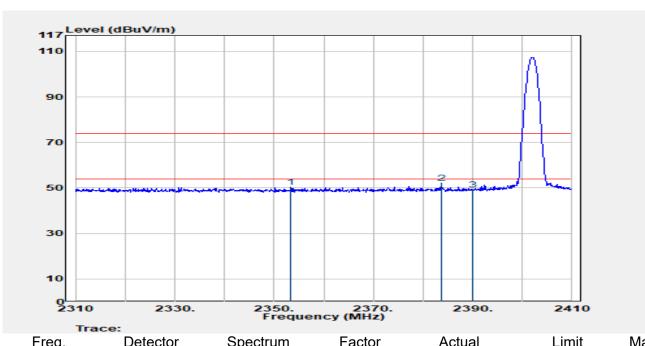
Report Number **Test Site** :SAC 2 :TERF2211002256ER

**Operation Mode Test Date** :2023-02-20 :BR

**Test Frequency** :2402 MHz Temp./Humi. :22.7/60

Test Mode :Bandedge Antenna Pol. :Horizontal

**EUT Pol** :H Plane Engineer :Ricky Chen



	TI CAN						
	Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
	MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
_							
	2353.400	Peak	54.94	-4.38	50.57	74.00	-23.43
	2383.600	Peak	56.42	-4.27	52.15	74.00	-21.85
	2390.000	Peak	53.63	-4.25	49.39	74.00	-24.61

Freq. (MHz)	Detector	Peak Actual FS (dBµV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2353.400	Average	50.57	-25.04	25.53	54.00	-28.47
2383.600	Average	52.15	-25.04	27.11	54.00	-26.89
2390.000	Average	49.39	-25.04	24.35	54.00	-29.65

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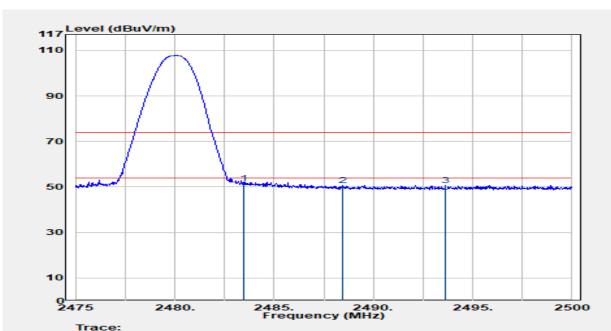
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Report Number **Test Site** :SAC 2 :TERF2211002256ER

**Operation Mode Test Date** :2023-02-20 :BR

**Test Frequency** :2480 MHz Temp./Humi. :22.7/60 Test Mode :Bandedge Antenna Pol. :Vertical

**EUT Pol** :H Plane Engineer :Ricky Chen



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	55.74	-4.26	51.48	74.00	-22.52
2488.425	Peak	55.03	-4.22	50.81	74.00	-23.19
2493.625	Peak	55.02	-4.18	50.84	74.00	-23.16

Freq. (MHz)	Detector	Peak Actual FS (dBµV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2483.500	Average	51.48	-25.04	26.44	54.00	-27.56
2488.425 2493.625	Average Average	50.81 50.84	-25.04 -25.04	25.77 25.80	54.00 54.00	-28.23 -28.20

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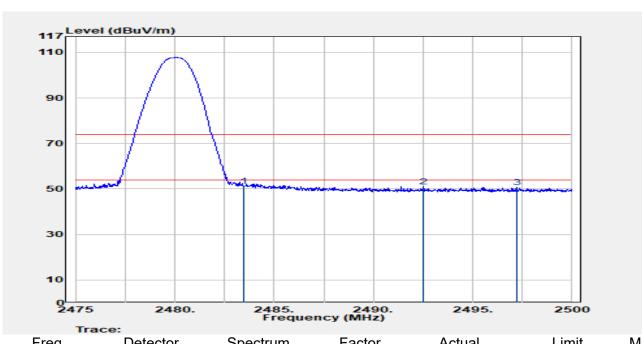
Report Number **Test Site** :SAC 2 :TERF2211002256ER

**Operation Mode Test Date** :2023-02-20 :BR

**Test Frequency** :2480 MHz Temp./Humi. :22.7/60

Test Mode :Bandedge Antenna Pol. :Horizontal

**EUT Pol** :H Plane Engineer :Ricky Chen



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	55.60	-4.26	51.35	74.00	-22.65
2492.525	Peak	55.31	-4.19	51.13	74.00	-22.87
2497.200	Peak	54.85	-4.15	50.69	74.00	-23.31

Freq. (MHz)	Detector	Peak Actual FS (dBµV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2483.500	Average	51.35	-25.04	26.31	54.00	-27.69
2492.525	Average	51.13	-25.04	26.09	54.00	-27.91
2497.200	Average	50.69	-25.04	25.65	54.00	-28.35

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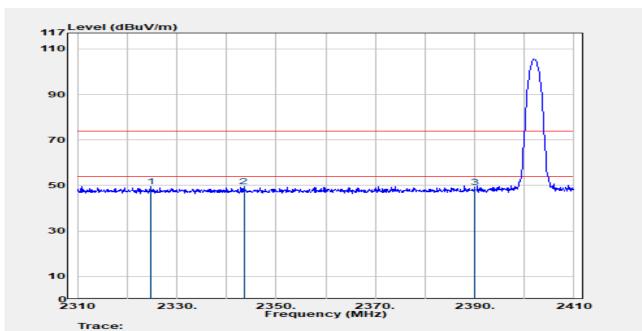
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Report Number :TERF2211002256ER Test Site :SAC 2

Operation Mode :EDR 3M Test Date :2023-02-20

Test Frequency :2402 MHz Temp./Humi. :22.7/60
Test Mode :Bandedge Antenna Pol. :Vertical

EUT Pol :H Plane Engineer :Ricky Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
2324.700	Peak	54.06	-4.35	49.70	74.00	-24.30
2343.500	Peak	53.96	-4.38	49.57	74.00	-24.43
2390.000	Peak	53.54	-4.25	49.29	74.00	-24.71

Freq. (MHz)	Detector	Peak Actual FS (dBµV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2324.700	Average	49.70	-24.73	24.97	54.00	-29.03
2343.500	Average	49.57	-24.73	24.84	54.00	-29.16
2390.000	Average	49.29	-24.73	24.56	54.00	-29.44

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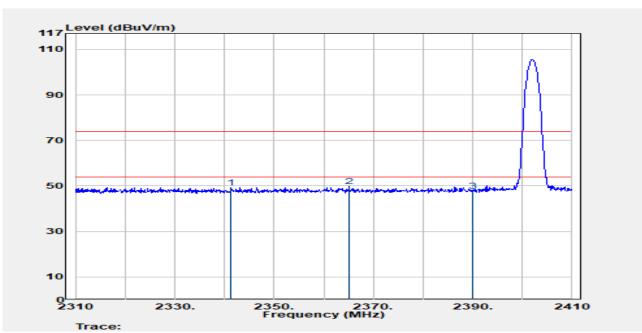
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Report Number :TERF2211002256ER Test Site :SAC 2

Operation Mode :EDR 3M Test Date :2023-02-20
Test Frequency :2402 MHz Temp./Humi. :22.7/60
Test Mode :Bandedge Antenna Pol. :Horizontal
EUT Pol :H Plane Engineer :Ricky Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2341.300	Peak	53.77	-4.38	49.39	74.00	-24.61
2365.100	Peak	54.20	-4.34	49.86	74.00	-24.14
2390.000	Peak	52.11	-4.25	47.86	74.00	-26.14

Freq. (MHz)	Detector	Peak Actual FS (dBµV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2341.300	Average	49.39	-24.73	24.66	54.00	-29.34
2365.100	Average	49.86	-24.73	25.13	54.00	-28.87
2390.000	Average	47.86	-24.73	23.13	54.00	-30.87

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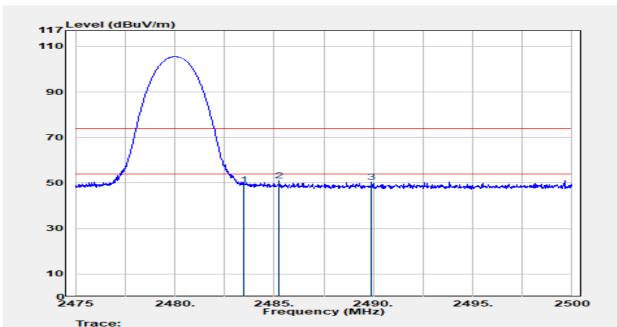
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Report Number :TERF2211002256ER Test Site :SAC 2

Operation Mode :EDR 3M Test Date :2023-02-20
Test Frequency :2480 MHz Temp./Humi. :22.7/60

Test Mode :Bandedge Antenna Pol. :Vertical

EUT Pol :H Plane Engineer :Ricky Chen



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	53.63	-4.26	49.37	74.00	-24.63
2485.250	Peak	55.18	-4.24	50.93	74.00	-23.07
2489.900	Peak	54.63	-4.21	50.42	74.00	-23.58

Freq. (MHz)	Detector	Peak Actual FS (dBµV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2483.500	Average	49.37	-24.73	24.64	54.00	-27.80
2485.250	Average	50.93	-24.73	26.20	54.00	
2489.900	Average	50.42	-24.73	25.69	54.00	

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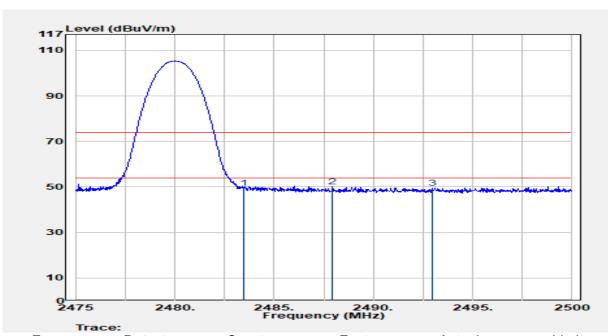
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Report Number **Test Site** :SAC 2 :TERF2211002256ER

**Operation Mode Test Date** :2023-02-20 :EDR 3M Test Frequency :2480 MHz Temp./Humi. :22.7/60 Test Mode :Bandedge Antenna Pol. :Horizontal Engineer **EUT Pol** :H Plane :Ricky Chen



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	53.80	-4.26	49.54	74.00	-24.46
2487.950	Peak	54.40	-4.22	50.18	74.00	-23.82
2492.950	Peak	53.82	-4.18	49.63	74.00	-24.37

_	Freq. (MHz)	Detector	Peak Actual FS (dBµV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
	2483.500	Average	49.54	-24.73	24.81	54.00	-29.19
	2487.950	Average	50.18	-24.73	25.45	54.00	-28.55
	2492.950	Average	49.63	-24.73	24.90	54.00	-29.10

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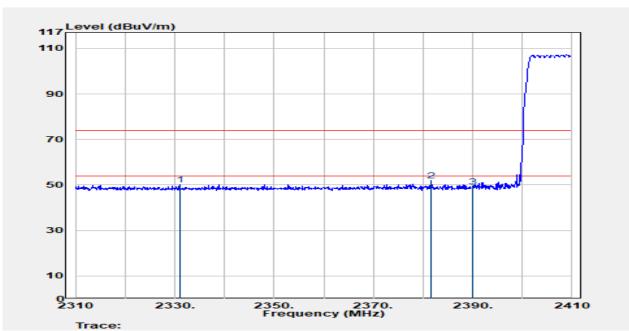
Report Number Test Site :SAC 2 :TERF2211002256ER

Operation Mode **Test Date** :2023-02-20 :BR Hopping

Test Frequency :2402 MHz Temp./Humi. :22.7/60

Test Mode :Bandedge Antenna Pol. :Vertical

**EUT Pol** :H Plane Engineer :Ricky Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2331.000	Peak	54.49	-4.36	50.12	74.00	-23.88
2381.700	Peak	56.20	-4.28	51.93	74.00	-22.07
2390.000	Peak	53.37	-4.25	49.12	74.00	-24.88

Freq. (MHz)	Detector	Peak Actual FS (dBµV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2331.000	Average	50.12	-25.04	25.08	54.00	-28.92
2381.700	Average	51.93	-25.04	26.89	54.00	-27.11
2390.000	Average	49.12	-25.04	24.08	54.00	-29.92

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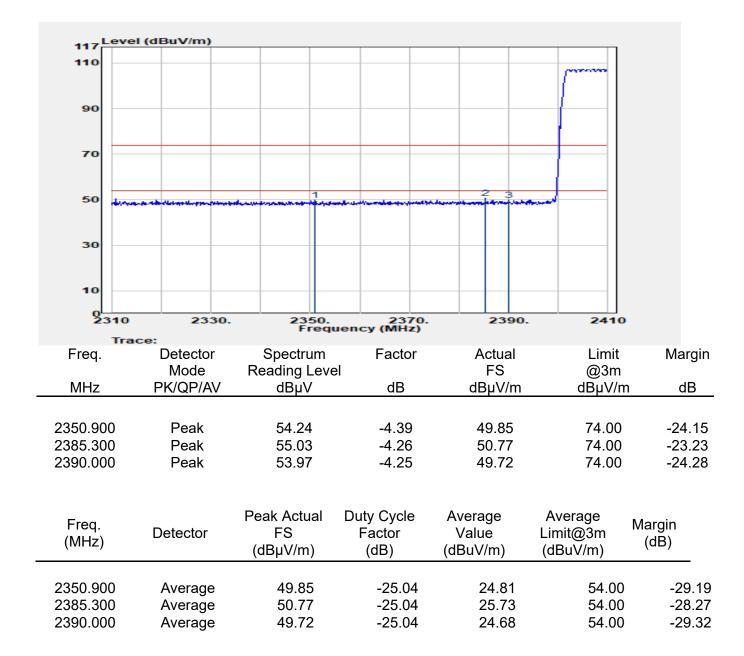
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**Test Date** :2023-02-20 **Operation Mode** :BR Hopping

**Test Frequency** :2402 MHz Temp./Humi. :22.7/60

Test Mode :Bandedge Antenna Pol. :Horizontal

**EUT Pol** :H Plane Engineer :Ricky Chen



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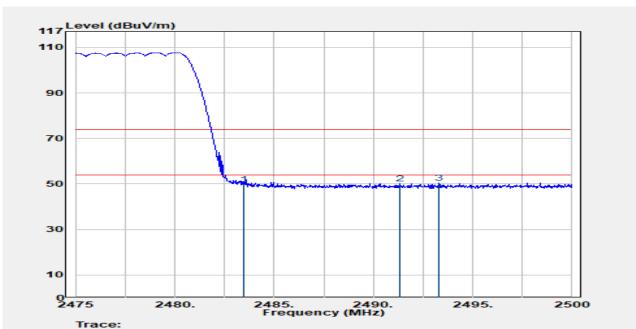
Report Number **Test Site** :SAC 2 :TERF2211002256ER

Operation Mode **Test Date** :2023-02-20 :BR Hopping

Test Frequency :2480 MHz Temp./Humi. :22.7/60

Test Mode :Bandedge Antenna Pol. :Vertical

**EUT Pol** :H Plane Engineer :Ricky Chen



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	54.02	-4.26	49.76	74.00	-24.24
2491.350	Peak	54.30	-4.20	50.11	74.00	-23.89
2493.300	Peak	54.62	-4.18	50.43	74.00	-23.57

Freq. (MHz)	Detector	Peak Actual FS (dBµV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2483.500	Average	49.76	-25.04	24.72	54.00	-29.28
2491.350	Average	50.11	-25.04	25.07	54.00	-28.93
2493.300	Average	50.43	-25.04	25.39	54.00	-28.61

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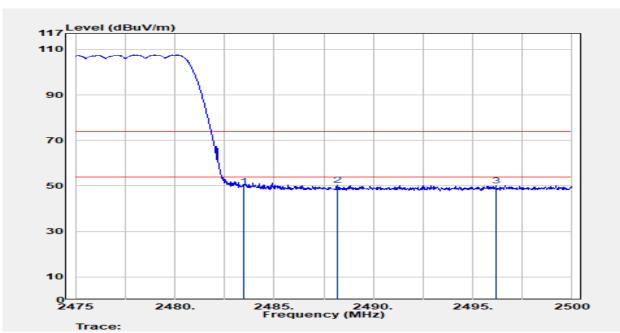
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Report Number **Test Site** :SAC 2 :TERF2211002256ER

Operation Mode **Test Date** :2023-02-20 :BR Hopping Test Frequency :2480 MHz Temp./Humi. :22.7/60 Test Mode :Bandedge Antenna Pol. :Horizontal **EUT Pol** :H Plane Engineer :Ricky Chen



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	54.24	-4.26	49.98	74.00	-24.02
2488.175	Peak	54.75	-4.22	50.53	74.00	-23.47
2496.200	Peak	54.42	-4.16	50.26	74.00	-23.74

Freq. (MHz)	Detector	Peak Actual FS (dBµV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2483.500	Average	49.98	-25.04	24.94	54.00	-29.06
2488.175	Average	50.53	-25.04	25.49	54.00	-28.51
2496.200	Average	50.26	-25.04	25.22	54.00	-28.78

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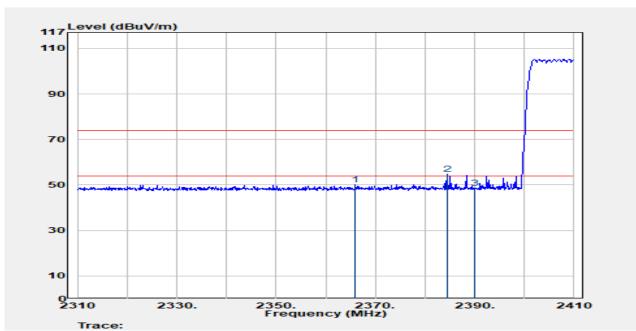
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Report Number :TERF2211002256ER Test Site :SAC 2

Operation Mode :EDR 3M Hopping Test Date :2023-02-20

Test Frequency :2402 MHz Temp./Humi. :22.7/60
Test Mode :Bandedge Antenna Pol. :Vertical

EUT Pol :H Plane Engineer :Ricky Chen



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Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2365.900	Peak	54.54	-4.33	50.20	74.00	-23.80
2384.400	Peak	59.04	-4.27	54.77	74.00	-19.23
2390.000	Peak	52.84	-4.25	48.60	74.00	-25.40

Freq. (MHz)	Detector	Peak Actual FS (dBµV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2365.900	Average	50.20	-24.73	25.47	54.00	-23.96
2384.400	Average	54.77	-24.73	30.04	54.00	
2390.000	Average	48.60	-24.73	23.87	54.00	

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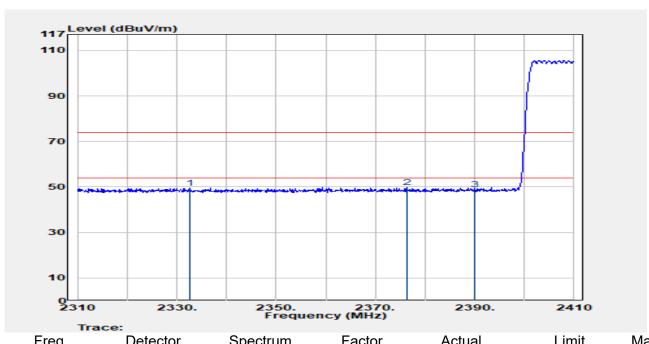
Report Number :TERF2211002256ER Test Site :SAC 2

Operation Mode :EDR 3M Hopping Test Date :2023-02-20

Test Frequency :2402 MHz Temp./Humi. :22.7/60

Test Mode :Bandedge Antenna Pol. :Horizontal

EUT Pol :H Plane Engineer :Ricky Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2332.600	Peak	53.86	-4.37	49.49	74.00	-24.51
2376.300	Peak	54.20	-4.29	49.90	74.00	-24.10
2390.000	Peak	53.20	-4.25	48.95	74.00	-25.05

Freq. (MHz)	Detector	Peak Actual FS (dBµV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2332.600	Average	49.49	-24.73	24.76	54.00	-29.24
2376.300	Average	49.90	-24.73	25.17	54.00	-28.83
2390.000	Average	48.95	-24.73	24.22	54.00	-29.78

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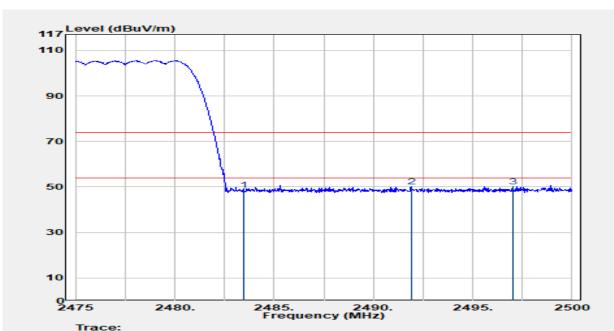
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Report Number **Test Site** :SAC 2 :TERF2211002256ER

Operation Mode **Test Date** :2023-02-20 :EDR 3M Hopping

Test Frequency :2480 MHz Temp./Humi. :22.7/60 Test Mode :Bandedge Antenna Pol. :Vertical

**EUT Pol** :H Plane Engineer :Ricky Chen



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	52.81	-4.26	48.55	74.00	-25.45
2491.900	Peak	54.26	-4.19	50.07	74.00	-23.93
2497.000	Peak	54.44	-4.15	50.29	74.00	-23.71

Freq. (MHz)	Detector	Peak Actual FS (dBµV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2483.500	Average	48.55	-24.73	23.82	54.00	-30.18
2491.900	Average	50.07	-24.73	25.34	54.00	-28.66
2497.000	Average	50.29	-24.73	25.56	54.00	-28.44

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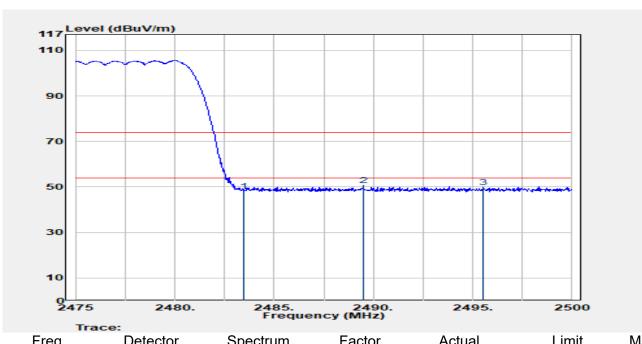
Report Number **Test Site** :SAC 2 :TERF2211002256ER

Operation Mode **Test Date** :2023-02-20 :EDR 3M Hopping

Test Frequency :2480 MHz Temp./Humi. :22.7/60

Test Mode :Bandedge Antenna Pol. :Horizontal

**EUT Pol** :H Plane Engineer :Ricky Chen



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	52.49	-4.26	48.23	74.00	-25.77
2489.500	Peak	54.97	-4.21	50.76	74.00	-23.24
2495.525	Peak	54.04	-4.16	49.88	74.00	-24.12

Freq. (MHz)	Detector	Peak Actual FS (dBµV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2483.500	Average	48.23	-24.73	23.50	54.00	-30.50
2489.500	Average	50.76	-24.73	26.03	54.00	-27.97
2495.525	Average	49.88	-24.73	25.15	54.00	-28.85

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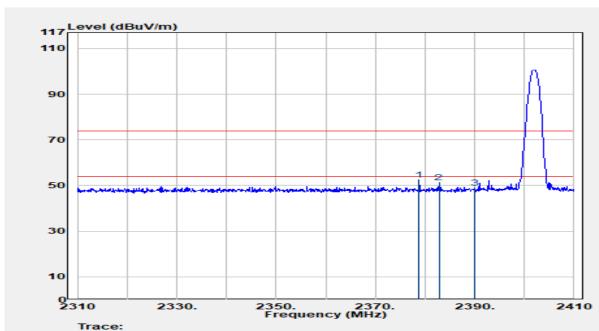
## ANTO (dipole)

Report Number :TERF2211002256ER Test Site :SAC 2

**Operation Mode** :BR **Test Date** :2023-02-20

Test Frequency :2402 MHz Temp./Humi. :22.7/60 Test Mode :Bandedge Antenna Pol. :Vertical

**EUT Pol** :H Plane Engineer :Ricky Chen



Tra	ce:					
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2378.800	Peak	56.65	-4.29	52.36	74.00	-21.64
2382.800	Peak	55.64	-4.27	51.37	74.00	-22.63
2390.000	Peak	53.27	-4.25	49.02	74.00	-24.98
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2378.800	Average	52.36	-25.04	27.32	54.00	-26.68
2382.800	Average	51.37	-25.04	26.33	54.00	-27.67
2390.000	Average	49.02	-25.04	23.98	54.00	-30.02

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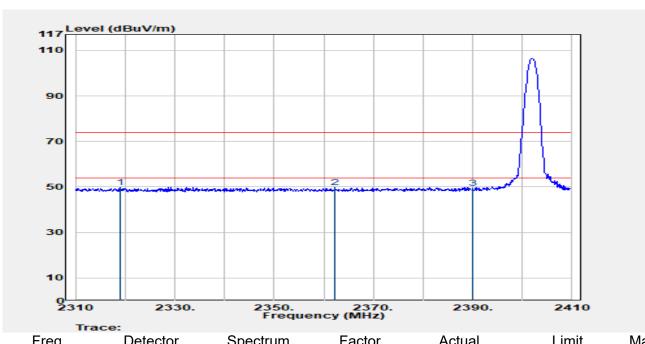
Report Number :TERF2211002256ER Test Site :SAC 2

Operation Mode :BR Test Date :2023-02-20

Test Frequency :2402 MHz Temp./Humi. :22.7/60

Test Mode :Bandedge Antenna Pol. :Horizontal

EUT Pol :H Plane Engineer :Ricky Chen



	Tra	ce:					
	Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
	MHz	PK/QP/AV	dBµV	dB	dΒμV/m	dΒμV/m	dB
	2318.900	Peak	54.30	-4.35	49.95	74.00	-24.05
	2362.300	Peak	54.08	-4.35	49.73	74.00	-24.27
	2390.000	Peak	53.86	-4.25	49.62	74.00	-24.38
	Freq.	Detector Mode	Spectrum	Factor	Actual FS	Limit	Margin
	MHz	PK/QP/AV	Reading Level dBµV	dB	dBµV/m	@3m dBµV/m	dB
-			<b>'</b>		<b>'</b>	•	
	2318.900	Average	49.95	-25.04	24.91	54.00	-29.09
	2362.300	Average	49.73	-25.04	24.69	54.00	-29.31
	2390.000	Average	49.62	-25.04	24.58	54.00	-29.42
		-					

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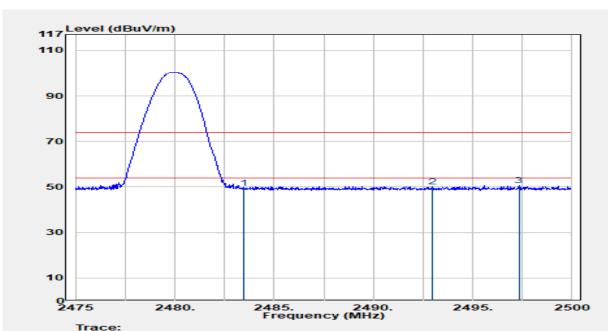
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Report Number **Test Site** :SAC 2 :TERF2211002256ER

**Operation Mode Test Date** :2023-02-20 :BR

**Test Frequency** :2480 MHz Temp./Humi. :22.7/60 Antenna Pol. :Vertical Test Mode :Bandedge

**EUT Pol** :H Plane Engineer :Ricky Chen



Tra	ce:					
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμ̈V	dB	dBµV/m	dBμV/m	dB
						_
2483.500	Peak	53.71	-4.26	49.45	74.00	-24.55
2492.975	Peak	54.40	-4.18	50.21	74.00	-23.79
2497.325	Peak	54.89	-4.15	50.74	74.00	-23.26
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	Average	49.45	-25.04	24.41	54.00	-29.59
2492.975	Average	50.21	-25.04	25.17	54.00	-28.83
2497.325	Average	50.74	-25.04	25.70	54.00	-28.30

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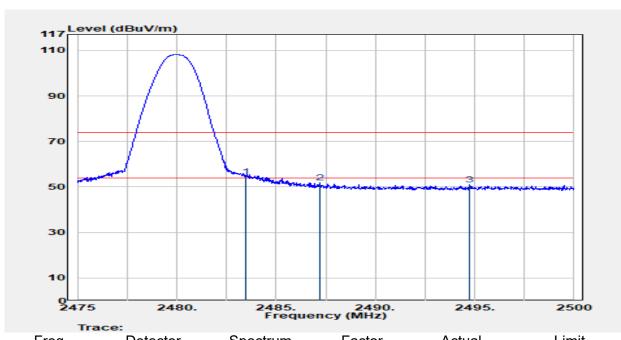
Report Number :TERF2211002256ER Test Site :SAC 2

Operation Mode :BR Test Date :2023-02-20

Test Frequency :2480 MHz Temp./Humi. :22.7/60

Test Mode :Bandedge Antenna Pol. :Horizontal

EUT Pol :H Plane Engineer :Ricky Chen



Trae	ce:					
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμ̈V	dB	dBµV/m	dBμV/m	dB
						_
2483.500	Peak	58.84	-4.26	54.58	74.00	-19.42
2487.225	Peak	56.21	-4.23	51.98	74.00	-22.02
2494.750	Peak	55.05	-4.17	50.88	74.00	-23.12
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	Average	54.58	-25.04	29.54	54.00	-24.46
2487.225	Average	51.98	-25.04	26.94	54.00	-27.06
2494.750	Average	50.88	-25.04	25.84	54.00	-28.16
	, o. a.g.o	00.00	_0.0.	20.0.	01.00	20.10

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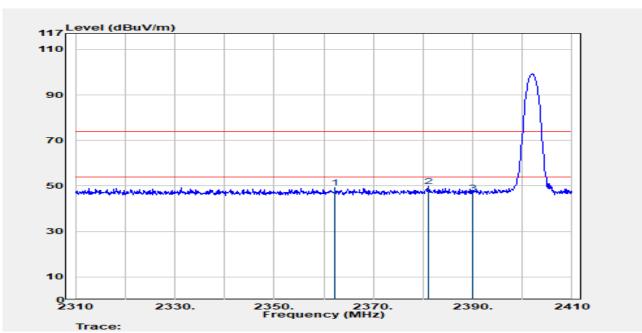
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Report Number :TERF2211002256ER Test Site :SAC 2

Operation Mode :EDR 3M Test Date :2023-02-20

Test Frequency :2402 MHz Temp./Humi. :22.7/60
Test Mode :Bandedge Antenna Pol. :Vertical

EUT Pol :H Plane Engineer :Ricky Chen



Trac	ce:					
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
						_
2362.300	Peak	53.70	-4.35	49.35	74.00	-24.65
2381.200	Peak	54.11	-4.28	49.84	74.00	-24.16
2390.000	Peak	51.03	-4.25	46.79	74.00	-27.21
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBμV/m	dB
2362.300	Average	49.35	-25.04	24.31	54.00	-29.69
2381.200	Average	49.84	-25.04	24.80	54.00	-29.20
2390.000	Average	46.79	-25.04	21.75	54.00	-32.25

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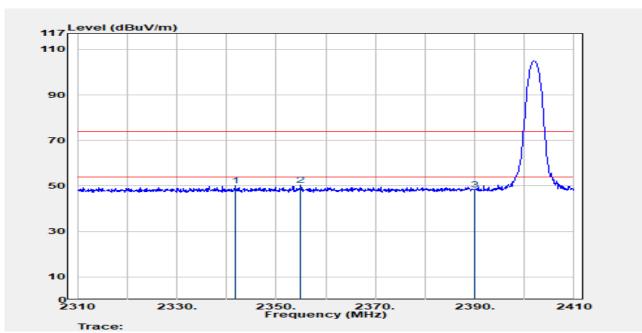


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Report Number :TERF2211002256ER Test Site :SAC 2

Operation Mode :EDR 3M Test Date :2023-02-20
Test Frequency :2402 MHz Temp./Humi. :22.7/60
Test Mode :Bandedge Antenna Pol. :Horizontal

EUT Pol :H Plane Engineer :Ricky Chen



	Tra	ce:					
	Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
_	MHz	PK/QP/AV	dBµV	dB	dBμV/m	dBμV/m	dB
	2341.700	Peak	54.51	-4.38	50.14	74.00	-23.86
	2355.000	Peak	54.71	-4.37	50.34	74.00	-23.66
	2390.000	Peak	52.56	-4.25	48.32	74.00	-25.68
	Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	MHz	Mode PK/QP/AV	Reading Level dBµV	dB	FS dBµV/m	@3m dBµV/m	dB
-	IVITIZ	PN/QP/AV	ивµу	иь	ασμν/π	ασμν/ιιι	uБ
	2244 700	A., a. a. a. a.	EO 44	05.04	OF 40	E4.00	20.00
	2341.700	Average	50.14	-25.04	25.10	54.00	-28.90
	2355.000	Average	50.34	-25.04	25.30	54.00	-28.70
	2390.000	Average	48.32	-25.04	23.28	54.00	-30.72

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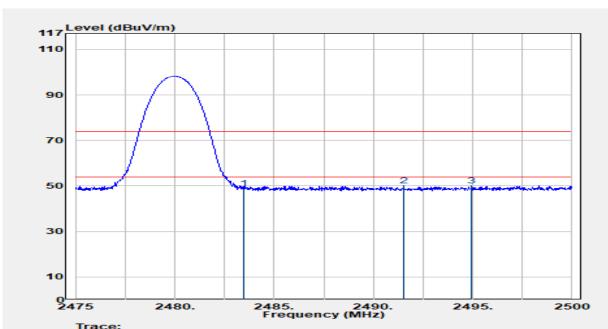
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Report Number :TERF2211002256ER Test Site :SAC 2

Operation Mode :EDR 3M Test Date :2023-02-20

Test Frequency :2480 MHz Temp./Humi. :22.7/60
Test Mode :Bandedge Antenna Pol. :Vertical

EUT Pol :H Plane Engineer :Ricky Chen



Tra	ce:					
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
						_
2483.500	Peak	53.24	-4.26	48.98	74.00	-25.02
2491.525	Peak	54.19	-4.20	50.00	74.00	-24.00
2494.950	Peak	54.28	-4.17	50.11	74.00	-23.89
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
N 41 1—	Mode	Reading Level	-ID	FS	@3m	-ID
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	48.98	-25.04	23.94	54.00	-30.06
2491.525	Average	50.00	-25.04	24.96	54.00	-29.04
2494.950	Average	50.11	-25.04	25.07	54.00	-28.93

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**EUT Pol** 

:H Plane

Report No.: TERF2211002256ER

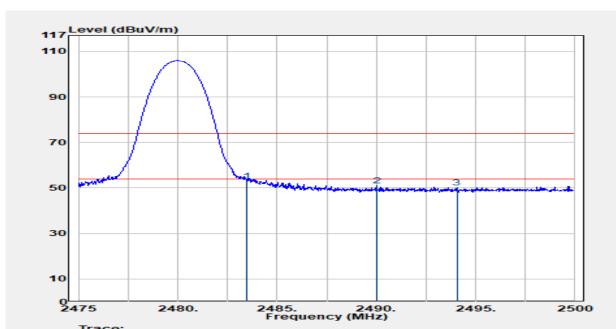
:Ricky Chen

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Engineer

Report Number **Test Site** :SAC 2 :TERF2211002256ER

**Operation Mode** :EDR 3M **Test Date** :2023-02-20 Test Frequency :2480 MHz Temp./Humi. :22.7/60 Test Mode :Bandedge Antenna Pol. :Horizontal



Ira	ce:					
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dΒμV/m	dB
2483.500	Peak	57.26	-4.26	53.00	74.00	-21.00
2490.025	Peak	55.27	-4.21	51.07	74.00	-22.93
2494.050	Peak	54.38	-4.18	50.20	74.00	-23.80
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	53.00	-25.04	27.96	54.00	-26.04
2490.025	Average	51.07	-25.04	26.03	54.00	-27.97
2494.050	Average	50.20	-25.04	25.16	54.00	-28.84

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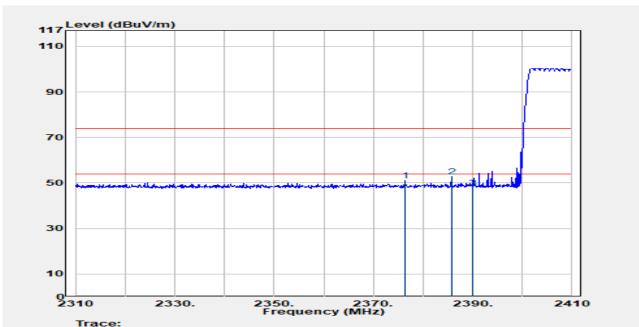
Report Number **Test Site** :SAC 2 :TERF2211002256ER

Operation Mode **Test Date** :2023-02-20 :BR Hopping

Test Frequency :2402 MHz Temp./Humi. :22.7/60

Test Mode Antenna Pol. :Vertical :Bandedge

**EUT Pol** :H Plane Engineer :Ricky Chen



Trae	co.		o, (z,				
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB	
2376.400	Peak	55.36	-4.29	51.07	74.00	-22.93	
2385.700	Peak	56.98	-4.26	52.72	74.00	-21.28	
2390.000	Peak	52.15	-4.25	47.90	74.00	-26.10	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
·	Mode	Reading Level		FS	@3m	J	
MHz	PK/QP/AV	dBµV	dB	dBμV/m	dΒμV/m	dB	
2376.400	Average	51.07	-25.04	26.03	54.00	-27.97	
2385.700	Average	52.72	-25.04	27.68	54.00	-26.32	
2390.000	Average	47.90	-25.04	22.86	54.00	-31.14	

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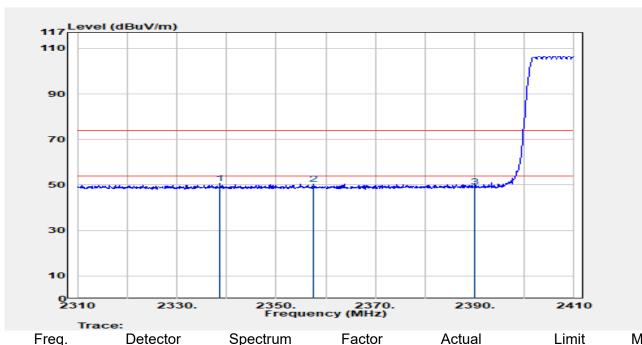
Report Number :TERF2211002256ER Test Site :SAC 2

Operation Mode :BR Hopping Test Date :2023-02-20

Test Frequency :2402 MHz Temp./Humi. :22.7/60

Test Mode :Bandedge Antenna Pol. :Horizontal

EUT Pol :H Plane Engineer :Ricky Chen



	Тга	ce:					
	Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
	MHz	PK/QP/AV	dΒμ̈V	dB	dBµV/m	dBµV/m	dB
	2338.700	Peak	55.08	-4.37	50.71	74.00	-23.29
	2357.600	Peak	54.86	-4.36	50.50	74.00	-23.50
	2390.000	Peak	53.37	-4.25	49.12	74.00	-24.88
	Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
	MHz	PK/QP/AV	dBµV	dB	dBμV/m	dBµV/m	dB
-							
	2338.700	Average	50.71	-25.04	25.67	54.00	-28.33
	2357.600	Average	50.50	-25.04	25.46	54.00	-28.54
	2390.000	Average	49.12	-25.04	24.08	54.00	-29.92

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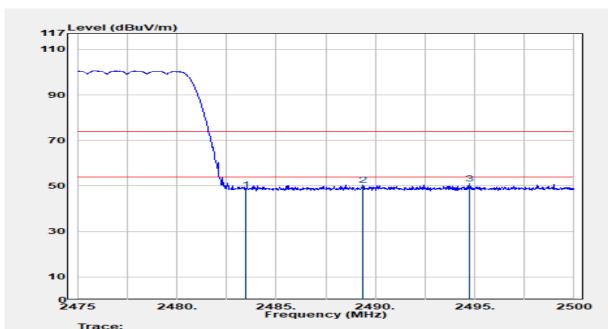
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Report Number **Test Site** :SAC 2 :TERF2211002256ER

Operation Mode **Test Date** :2023-02-20 :BR Hopping

Test Frequency :2480 MHz Temp./Humi. :22.7/60 Test Mode Antenna Pol. :Vertical :Bandedge

**EUT Pol** :H Plane Engineer :Ricky Chen



Ira	ce:					
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dΒμV/m	dB
2483.500	Peak	52.76	-4.26	48.51	74.00	-25.49
2489.375	Peak	54.69	-4.21	50.47	74.00	-23.53
2494.750	Peak	55.09	-4.17	50.92	74.00	-23.08
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBμV/m	dBµV/m	dB
2483.500	Average	48.51	-25.04	23.47	54.00	-30.53
2489.375	Average	50.47	-25.04	25.43	54.00	-28.57
2494.750	Average	50.92	-25.04	25.88	54.00	-28.12

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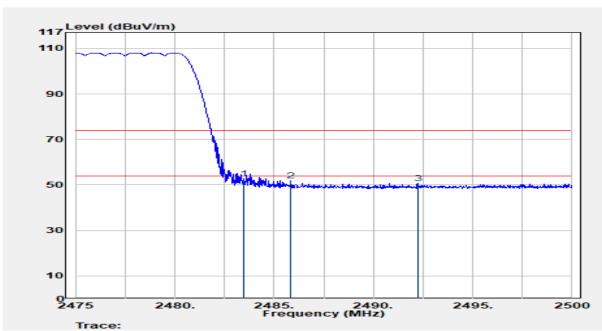


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Report Number :TERF2211002256ER Test Site :SAC 2

Operation Mode :BR Hopping Test Date :2023-02-20
Test Frequency :2480 MHz Temp./Humi. :22.7/60

Test Mode :Bandedge Antenna Pol. :Horizontal EUT Pol :H Plane Engineer :Ricky Chen



Tra	ce:					
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dΒμV/m	dBµV/m	dB
2483.500	Peak	57.12	-4.26	52.86	74.00	-21.14
2485.850	Peak	56.22	-4.24	51.98	74.00	-22.02
2492.225	Peak	54.85	-4.19	50.66	74.00	-23.34
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2483.500	Average	52.86	-25.04	27.82	54.00	-26.18
2485.850	Average	51.98	-25.04	26.94	54.00	-27.06
2492.225	Average	50.66	-25.04	25.62	54.00	-28.38

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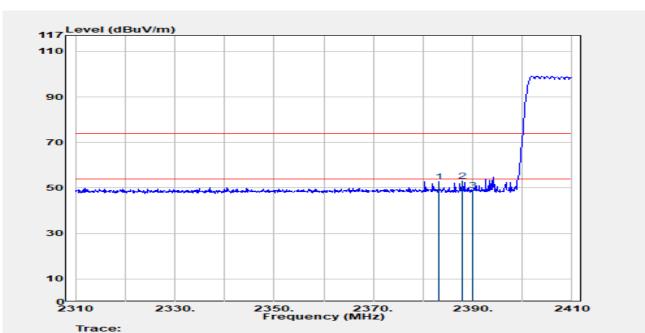
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Report Number **Test Site** :SAC 2 :TERF2211002256ER

**Operation Mode Test Date** :2023-02-20 :EDR 3M Hopping

Test Frequency :2402 MHz Temp./Humi. :22.7/60 Test Mode :Bandedge Antenna Pol. :Vertical

**EUT Pol** :H Plane Engineer :Ricky Chen



Tra	ce:					
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
2383.200	Peak	57.13	-4.27	52.86	74.00	-21.14
2388.000	Peak	57.33	-4.25	53.07	74.00	-20.93
2390.000	Peak	53.13	-4.25	48.89	74.00	-25.11
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dΒμV/m	dB
2383.200	Average	52.86	-25.04	27.82	54.00	-26.18
2388.000	Average	53.07	-25.04	28.03	54.00	-25.97
2390.000	Average	48.89	-25.04	23.85	54.00	-30.15

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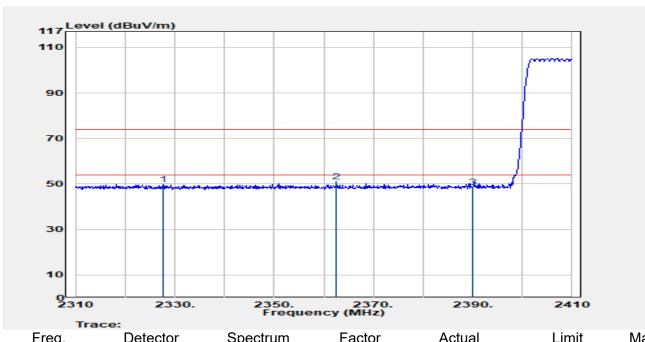
Report Number :TERF2211002256ER Test Site :SAC 2

Operation Mode :EDR 3M Hopping Test Date :2023-02-20

Test Frequency :2402 MHz Temp./Humi. :22.7/60

Test Mode :Bandedge Antenna Pol. :Horizontal

EUT Pol :H Plane Engineer :Ricky Chen



Tra	ce:					
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμ̈V	dB	dBµV/m	dBμV/m	dB
2327.700	Peak	54.19	-4.36	49.83	74.00	-24.17
2362.600	Peak	55.28	-4.34	50.93	74.00	-23.07
2390.000	Peak	52.84	-4.25	48.59	74.00	-25.41
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2327.700	Average	49.83	-25.04	24.79	54.00	-29.21
2362.600	Average	50.93	-25.04	25.89	54.00	-28.11
2390.000	Average	48.59	-25.04	23.55	54.00	-30.45

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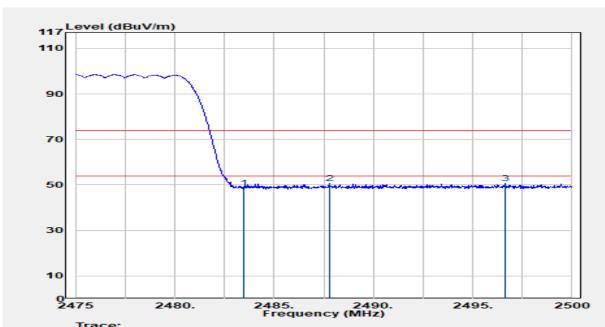
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Report Number :TERF2211002256ER Test Site :SAC 2

Operation Mode :EDR 3M Hopping Test Date :2023-02-20

Test Frequency :2480 MHz Temp./Humi. :22.7/60
Test Mode :Bandedge Antenna Pol. :Vertical

EUT Pol :H Plane Engineer :Ricky Chen



Trac	ce:					
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	52.89	-4.26	48.63	74.00	-25.37
2487.775	Peak	54.82	-4.22	50.59	74.00	-23.41
2496.625	Peak	54.85	-4.16	50.69	74.00	-23.31
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dΒμV/m	dB
2483.500	Average	48.63	-25.04	23.59	54.00	-30.41
2487.775	Average	50.59	-25.04	25.55	54.00	-28.45
2496.625	Average	50.69	-25.04	25.65	54.00	-28.35

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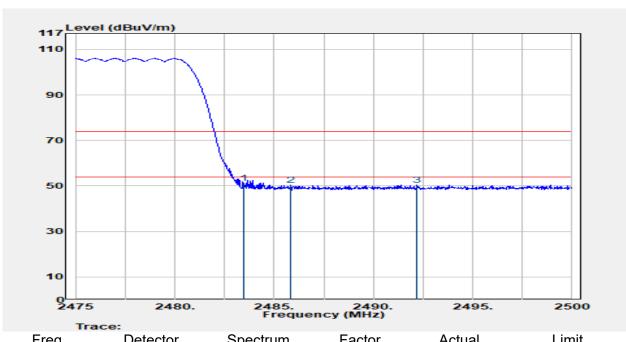
Report Number **Test Site** :SAC 2 :TERF2211002256ER

Operation Mode **Test Date** :2023-02-20 :EDR 3M Hopping

Test Frequency :2480 MHz Temp./Humi. :22.7/60

Test Mode :Bandedge Antenna Pol. :Horizontal

**EUT Pol** :H Plane Engineer :Ricky Chen



Tra	ce:					
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dΒμV/m	dBμV/m	dB
2483.500	Peak	55.67	-4.26	51.41	74.00	-22.59
2485.850	Peak	54.65	-4.24	50.41	74.00	-23.59
2492.200	Peak	54.72	-4.19	50.53	74.00	-23.47
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBμV/m	dBµV/m	dB
2483.500	Average	51.41	-25.04	26.37	54.00	-27.63
2485.850	Average	50.41	-25.04	25.37	54.00	-28.63
2492.200	Average	50.53	-25.04	25.49	54.00	-28.51
	•					

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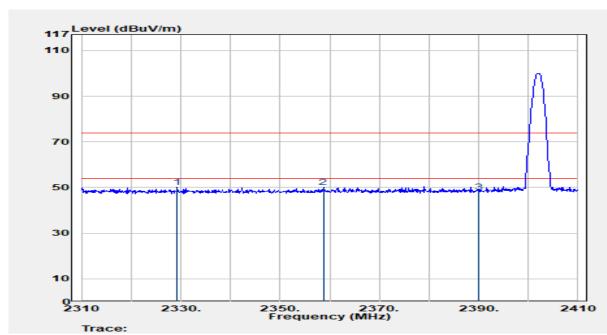
## BT\_ANT (dipole)

Report Number :TERF2211002256ER Test Site :SAC 2

**Operation Mode Test Date** :2023-01-16

Test Frequency :2402 MHz Temp./Humi. :24.3/61 Test Mode :Bandedge Antenna Pol. :Vertical

**EUT Pol** :H Plane Engineer :Ricky Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2329.300	Peak	54.36	-4.36	50.00	74.00	-24.00
2358.700	Peak	54.42	-4.36	50.06	74.00	-23.94
2390.000	Peak	52.41	-4.25	48.16	74.00	-25.84

Freq. (MHz)	Detector	Peak Actual FS (dBµV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2329.300	Average	50.00	-24.73	25.27	54.00	-28.73
2358.700	Average	50.06	-24.73	25.33	54.00	-28.67
2390.000	Average	48.16	-24.73	23.43	54.00	-30.57

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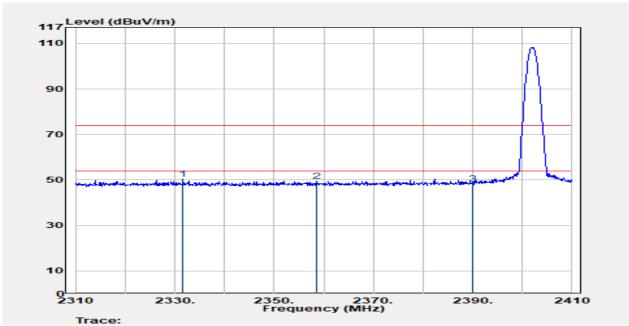
Report Number **Test Site** :SAC 2 :TERF2211002256ER

**Operation Mode Test Date** :2023-01-16 :BR

**Test Frequency** :2402 MHz Temp./Humi. :24.3/61

Test Mode :Bandedge Antenna Pol. :Horizontal

**EUT Pol** :H Plane Engineer :Ricky Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2331.700	Peak	54.79	-4.36	50.42	74.00	-23.58
2358.600	Peak	53.85	-4.36	49.49	74.00	-24.51
2390.000	Peak	52.68	-4.25	48.44	74.00	-25.56

Freq. (MHz)	Detector	Peak Actual FS (dBµV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2331.700	Average	50.42	-24.73	25.69	54.00	-28.31
2358.600	Average	49.49	-24.73	24.76	54.00	-29.24
2390.000	Average	48.44	-24.73	23.71	54.00	-30.29

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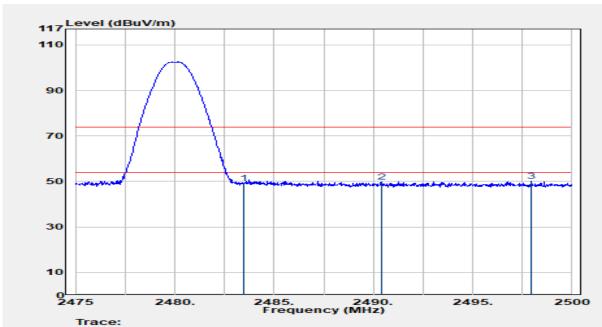
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Report Number :TERF2211002256ER Test Site :SAC 2

Operation Mode :BR Test Date :2023-01-16

Test Frequency :2480 MHz Temp./Humi. :24.3/61
Test Mode :Bandedge Antenna Pol. :Vertical

EUT Pol :H Plane Engineer :Ricky Chen



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	53.42	-4.26	49.16	74.00	-24.84
2490.400	Peak	54.15	-4.20	49.95	74.00	-24.05
2497.950	Peak	54.21	-4.15	50.07	74.00	-23.93

Freq. (MHz)	Detector	Peak Actual FS (dBµV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2483.500	Average	49.16	-24.73	24.43	54.00	-29.57
2490.400	Average	49.95	-24.73	25.22	54.00	-28.78
2497.950	Average	50.07	-24.73	25.34	54.00	-28.66

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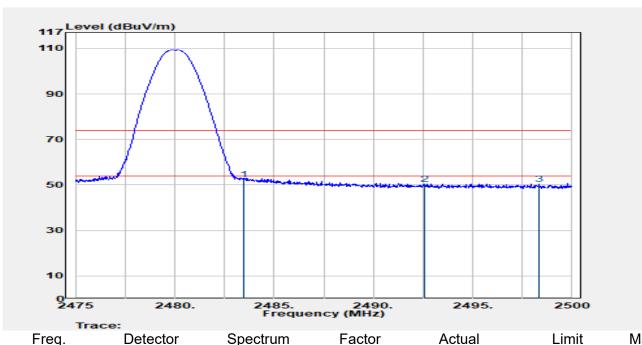
Report Number **Test Site** :SAC 2 :TERF2211002256ER

**Operation Mode Test Date** :2023-01-16 :BR

**Test Frequency** :2480 MHz Temp./Humi. :24.3/61

Test Mode :Bandedge Antenna Pol. :Horizontal

**EUT Pol** :H Plane Engineer :Ricky Chen



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	56.60	-4.26	52.34	74.00	-21.66
2492.600	Peak	54.75	-4.19	50.57	74.00	-23.43
2498.350	Peak	54.63	-4.14	50.48	74.00	-23.52

Freq. (MHz)	Detector	Peak Actual FS (dBµV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2483.500	Average	52.34	-24.73	27.61	54.00	
2492.600	Average	50.57	-24.73	25.84	54.00	
2498.350	Average	50.48	-24.73	25.75	54.00	

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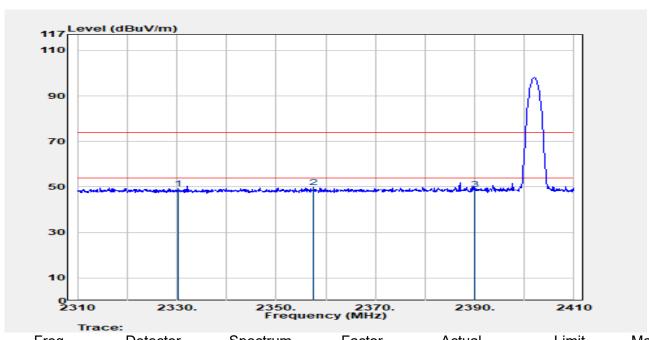
Report Number :TERF2211002256ER Test Site :SAC 2

Operation Mode :EDR 3M Test Date :2023-01-16

Test Frequency :2402 MHz Temp./Humi. :24.3/61

Test Mode :Bandedge Antenna Pol. :Vertical

EUT Pol :H Plane Engineer :Ricky Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2330.200	Peak	53.71	-4.36	49.35	74.00	-24.65
2357.600	Peak	54.07	-4.36	49.71	74.00	-24.29
2390.000	Peak	53.27	-4.25	49.02	74.00	-24.98

Freq. (MHz)	Detector	Peak Actual FS (dBµV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2330.200	Average	49.35	-25.35	24.00	54.00	-30.00
2357.600	Average	49.71	-25.35	24.36	54.00	-29.64
2390.000	Average	49.02	-25.35	23.67	54.00	-30.33

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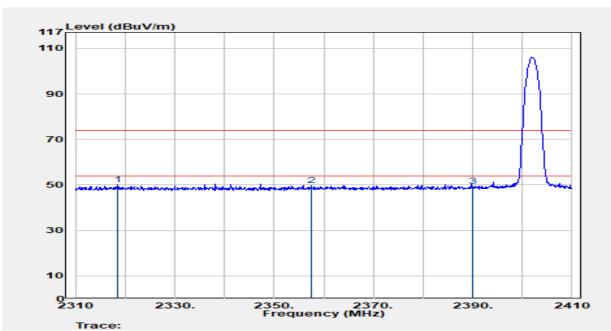
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Report Number **Test Site** :SAC 2 :TERF2211002256ER

**Operation Mode** :EDR 3M **Test Date** :2023-01-16

**Test Frequency** :2402 MHz Temp./Humi. :24.3/61

Test Mode :Bandedge Antenna Pol. :Horizontal **EUT Pol** :H Plane Engineer :Ricky Chen



	110	CC.					
	Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
	MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
•							
	2318.600	Peak	54.35	-4.35	50.00	74.00	-24.00
	2357.500	Peak	54.30	-4.36	49.93	74.00	-24.07
	2390.000	Peak	53.82	-4.25	49.57	74.00	-24.43

Freq. (MHz)	Detector	Peak Actual FS (dBµV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2318.600	Average	50.00	-25.35	24.65	54.00	-29.35
2357.500	Average	49.93	-25.35	24.58	54.00	-29.42
2390.000	Average	49.57	-25.35	24.22	54.00	-29.78

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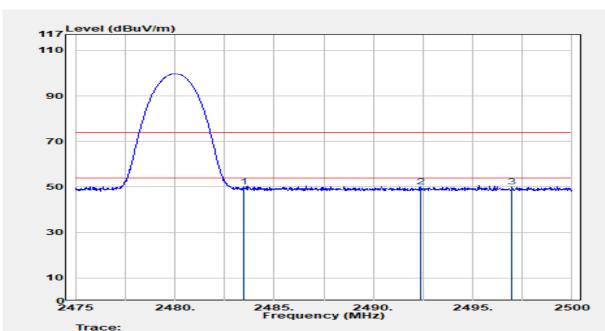
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Report Number :TERF2211002256ER Test Site :SAC 2

Operation Mode :EDR 3M Test Date :2023-01-16

Test Frequency :2480 MHz Temp./Humi. :24.3/61
Test Mode :Bandedge Antenna Pol. :Vertical

EUT Pol :H Plane Engineer :Ricky Chen



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Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	$dB\mu V$	dB	dBµV/m	dBµV/m	dB
						·
2483.500	Peak	54.29	-4.26	50.03	74.00	-23.97
2492.350	Peak	54.42	-4.19	50.23	74.00	-23.77
2496.975	Peak	54.43	-4.15	50.28	74.00	-23.72

Freq. (MHz)	Detector	Peak Actual FS (dBµV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2483.500	Average	50.03	-25.35	24.68	54.00	-29.32
2492.350	Average	50.23	-25.35	24.88	54.00	-29.12
2496.975	Average	50.28	-25.35	24.93	54.00	-29.07

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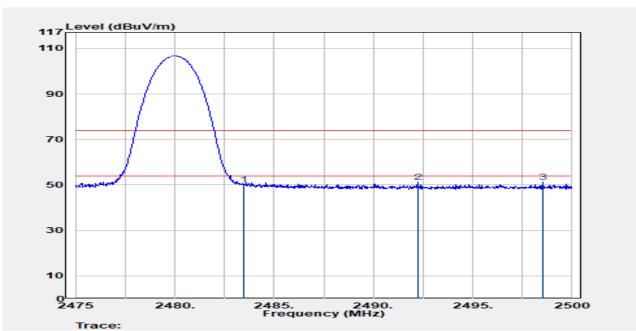
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Report Number **Test Site** :SAC 2 :TERF2211002256ER

**Operation Mode Test Date** :2023-01-16 :EDR 3M Test Frequency :2480 MHz Temp./Humi. :24.3/61 Test Mode :Bandedge Antenna Pol. :Horizontal **EUT Pol** :H Plane Engineer :Ricky Chen



110						
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2483.500	Peak	54.35	-4.26	50.09	74.00	-23.91
2492.225	Peak	55.51	-4.19	51.32	74.00	-22.68
2498.525	Peak	55.50	-4.14	51.36	74.00	-22.64

Freq. (MHz)	Detector	Peak Actual FS (dBµV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2483.500	Average	50.09	-25.35	24.74	54.00	-28.03
2492.225	Average	51.32	-25.35	25.97	54.00	
2498.525	Average	51.36	-25.35	26.01	54.00	

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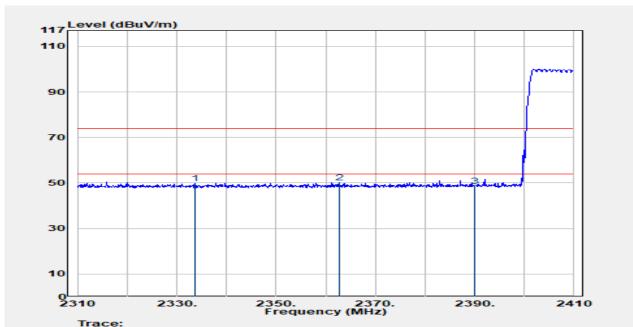
Report Number :TERF2211002256ER Test Site :SAC 2

Operation Mode :BR Hopping Test Date :2023-01-16

Test Frequency :2402 MHz Temp./Humi. :24.3/61

Test Mode :Bandedge Antenna Pol. :Vertical

EUT Pol :H Plane Engineer :Ricky Chen



110						
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
		•		•	•	
2333.700	Peak	54.12	-4.37	49.75	74.00	-24.25
2362.700	Peak	54.56	-4.34	50.22	74.00	-23.78
2390.000	Peak	52.79	-4.25	48.54	74.00	-25.46

Freq. (MHz)	Detector	Peak Actual FS (dBµV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2333.700	Average	49.75	-24.73	25.02	54.00	-28.98
2362.700	Average	50.22	-24.73	25.49	54.00	-28.51
2390.000	Average	48.54	-24.73	23.81	54.00	-30.19

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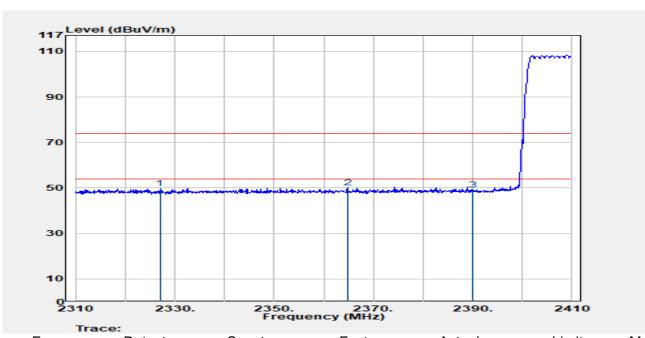
Page: 95 of 159

Report Number **Test Site** :SAC 2 :TERF2211002256ER

Operation Mode **Test Date** :2023-01-16 :BR Hopping

Test Frequency :2402 MHz Temp./Humi. :24.3/61

Test Mode :Bandedge Antenna Pol. :Horizontal **EUT Pol** :H Plane Engineer :Ricky Chen



110						
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2327.000	Peak	54.14	-4.36	49.78	74.00	-24.22
2364.800	Peak	54.38	-4.34	50.05	74.00	-23.95
2390.000	Peak	53.40	-4.25	49.15	74.00	-24.85

Freq. (MHz)	Detector	Peak Actual FS (dBµV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2327.000	Average	49.78	-24.73	25.05	54.00	-28.95
2364.800	Average	50.05	-24.73	25.32	54.00	-28.68
2390.000	Average	49.15	-24.73	24.42	54.00	-29.58

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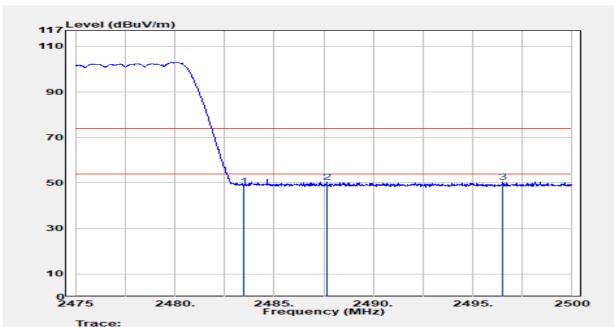
Report Number **Test Site** :SAC 2 :TERF2211002256ER

Operation Mode **Test Date** :2023-01-16 :BR Hopping

Test Frequency :2480 MHz Temp./Humi. :24.3/61

Test Mode :Bandedge Antenna Pol. :Vertical

**EUT Pol** :H Plane Engineer :Ricky Chen



110	CC.					
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
		•		•	•	
2483.500	Peak	52.94	-4.26	48.68	74.00	-25.32
2487.650	Peak	54.64	-4.23	50.42	74.00	-23.58
	reak		_		74.00	-23.56
2496.500	Peak	54.52	-4.16	50.36	74.00	-23.64

Freq. (MHz)	Detector	Peak Actual FS (dBµV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2483.500	Average	48.68	-24.73	23.95	54.00	-30.05
2487.650	Average	50.42	-24.73	25.69	54.00	-28.31
2496.500	Average	50.36	-24.73	25.63	54.00	-28.37

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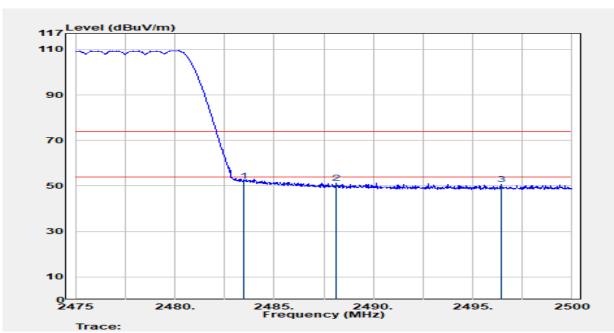


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Report Number **Test Site** :SAC 2 :TERF2211002256ER

Operation Mode **Test Date** :2023-01-16 :BR Hopping Test Frequency :2480 MHz Temp./Humi. :24.3/61

Test Mode :Bandedge Antenna Pol. :Horizontal **EUT Pol** :H Plane Engineer :Ricky Chen



Freq. Detector Spectrum Factor Actual Limit  Mode Reading Level FS @3m  MHz PK/QP/AV dBµV dB dBµV/m dBµV/m	
	Margin
MHz PK/QP/AV dRuV dB dRuV/m dRuV/m	
	dB
2483.500 Peak 56.56 -4.26 52.31 74.00	-21.69
2488.150 Peak 55.60 -4.22 51.38 74.00	-22.62
2496.425 Peak 54.87 -4.16 50.72 74.00	-23.28

Freq. (MHz)	Detector	Peak Actual FS (dBµV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2483.500	Average	52.31	-24.73	27.58	54.00	-26.42
2488.150	Average	51.38	-24.73	26.65	54.00	-27.35
2496.425	Average	50.72	-24.73	25.99	54.00	-28.01

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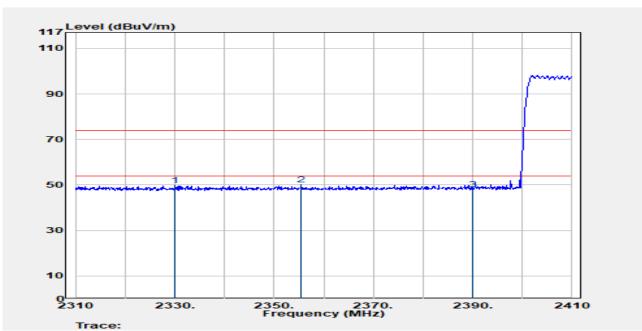
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Report Number :TERF2211002256ER Test Site :SAC 2

Operation Mode :EDR 3M Hopping Test Date :2023-01-16

Test Frequency :2402 MHz Temp./Humi. :24.3/61
Test Mode :Bandedge Antenna Pol. :Vertical

EUT Pol :H Plane Engineer :Ricky Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2330.100	Peak	54.12	-4.36	49.76	74.00	-24.24
2355.400	Peak	54.41	-4.37	50.04	74.00	-23.96
2390.000	Peak	52.45	-4.25	48.20	74.00	-25.80

Freq. (MHz)	Detector	Peak Actual FS (dBµV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2330.100	Average	49.76	-25.35	24.41	54.00	-29.59
2355.400	Average	50.04	-25.35	24.69	54.00	-29.31
2390.000	Average	48.20	-25.35	22.85	54.00	-31.15

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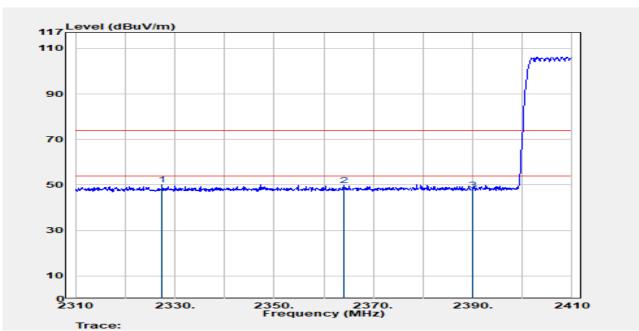
Report Number **Test Site** :SAC 2 :TERF2211002256ER

**Operation Mode Test Date** :2023-01-16 :EDR 3M Hopping

Test Frequency :2402 MHz Temp./Humi. :24.3/61

Test Mode :Bandedge Antenna Pol. :Horizontal

**EUT Pol** :H Plane Engineer :Ricky Chen



	110						
	Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
	MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
-							
	2327.500	Peak	54.52	-4.36	50.16	74.00	-23.84
	2364.000	Peak	54.23	-4.34	49.89	74.00	-24.11
	2390.000	Peak	52.15	-4.25	47.90	74.00	-26.10

Freq. (MHz)	Detector	Peak Actual FS (dBµV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2327.500	Average	50.16	-25.35	24.81	54.00	-29.19
2364.000	Average	49.89	-25.35	24.54	54.00	-29.46
2390.000	Average	47.90	-25.35	22.55	54.00	-31.45

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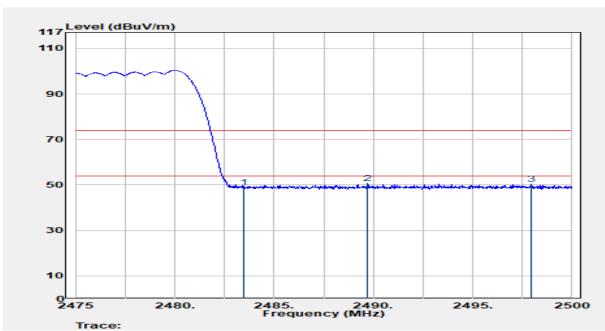
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Report Number :TERF2211002256ER Test Site :SAC 2

Operation Mode :EDR 3M Hopping Test Date :2023-01-16

Test Frequency :2480 MHz Temp./Humi. :24.3/61
Test Mode :Bandedge Antenna Pol. :Vertical

EUT Pol :H Plane Engineer :Ricky Chen



Freg. Detector Spectrum Factor Actual	Limit Margin
· · · · · · · · · · · · · · · · · · ·	@3m
· · · · · · · · · · · · · · · · · · ·	BµV/m dB
2483.500 Peak 53.30 -4.26 49.04	74.00 -24.96
2489.700 Peak 54.90 -4.21 50.69	74.00 -23.31
2497.975 Peak 54.67 -4.15 50.53	74.00 -23.47

Freq. (MHz)	Detector	Peak Actual FS (dBµV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2483.500	Average	49.04	-25.35	23.69	54.00	-30.31
2489.700	Average	50.69	-25.35	25.34	54.00	-28.66
2497.975	Average	50.53	-25.35	25.18	54.00	-28.82

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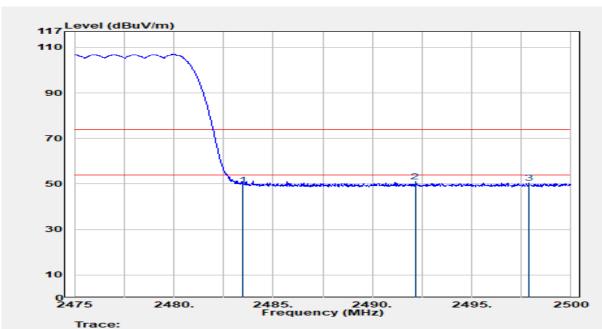
Report Number **Test Site** :SAC 2 :TERF2211002256ER

Operation Mode **Test Date** :2023-01-16 :EDR 3M Hopping

Test Frequency :2480 MHz Temp./Humi. :24.3/61

Test Mode :Bandedge Antenna Pol. :Horizontal

**EUT Pol** :H Plane Engineer :Ricky Chen



II CO						
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
						·
2483.500	Peak	53.92	-4.26	49.66	74.00	-24.34
2492.150	Peak	55.16	-4.19	50.97	74.00	-23.03
2497.875	Peak	54.49	-4.15	50.34	74.00	-23.66

Freq. (MHz)	Detector	Peak Actual FS (dBµV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2483.500	Average	49.66	-25.35	24.31	54.00	-29.69
2492.150	Average	50.97	-25.35	25.62	54.00	-28.38
2497.875	Average	50.34	-25.35	24.99	54.00	-29.01

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## 11.6.4 Radiated Spurious Emission ANT0 (monopole)

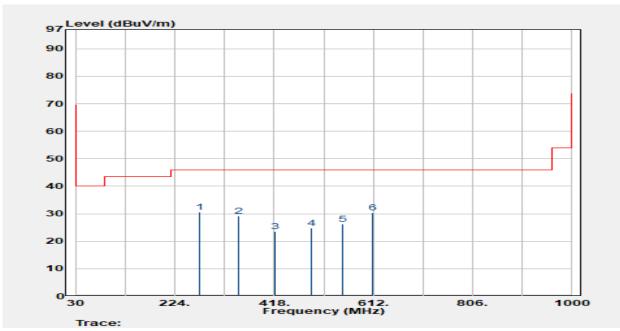
Report Number :TERF2211002256ER Test Site :SAC 2

Operation Mode :BR Test Date :2023-02-21

Test Frequency :2441 MHz Temp./Humi. :23.9/63

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :H Plane Engineer :Ricky Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
273.470	Peak	43.67	-12.97	30.71	46.00	-15.29
348.160	Peak	40.37	-11.19	29.18	46.00	-16.82
418.970	Peak	33.22	-9.59	23.63	46.00	-22.37
491.720	Peak	32.63	-7.84	24.79	46.00	-21.21
551.860	Peak	32.94	-6.76	26.18	46.00	-19.82
611.030	Peak	35.32	-4.82	30.50	46.00	-15.50

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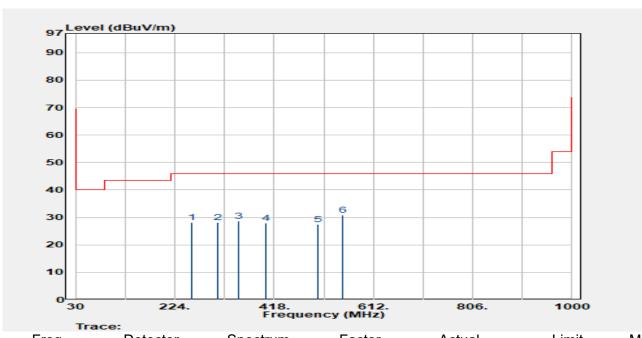
Report Number :TERF2211002256ER Test Site :SAC 2

Operation Mode :BR Test Date :2023-02-21

Test Frequency :2441 MHz Temp./Humi. :23.9/63

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :H Plane Engineer :Ricky Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dΒμV/m	dBμV/m	dB
257.950	Peak	41.91	-13.58	28.32	46.00	-17.68
308.390	Peak	40.42	-12.28	28.15	46.00	-17.85
348.160	Peak	39.89	-11.19	28.70	46.00	-17.30
401.510	Peak	37.81	-9.77	28.04	46.00	-17.96
504.330	Peak	35.12	-7.68	27.44	46.00	-18.56
551.860	Peak	37.58	-6.76	30.82	46.00	-15.18

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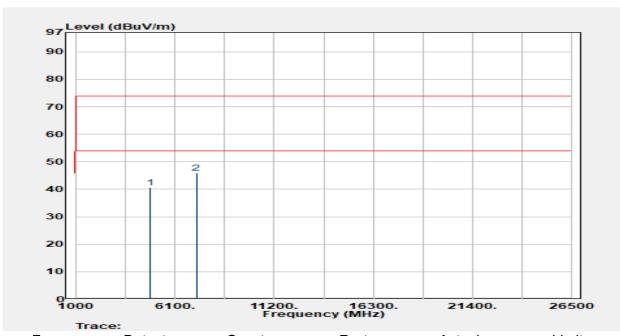
Report Number **Test Site** :SAC 2 :TERF2211002256ER

**Operation Mode Test Date** :2023-02-21 :BR

**Test Frequency** :2402 MHz Temp./Humi. :23.9/63

Test Mode :Tx Antenna Pol. :Vertical

Engineer **EUT Pol** :H Plane :Ricky Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dΒμV/m	dΒμV/m	dB
4804.000	Peak	38.56	2.10	40.66	74.00	-33.34
7206.000	Peak	38.42	7.56	45.98	74.00	-28.02
Freq.	Detector Mode	Peak Actual FS	Duty Cycle Factor (dB)	Average Value	Average Limit@3m	Margin (dB)
MHz	AV	(dBµV/m)	(42)	(dBuV/m)	(dBuV/m)	(GD)
4804.000	Average	40.66	-25.04	15.62	54.00	-38.38
7206.000	Average	45.98	-25.04	20.94	54.00	-33.06

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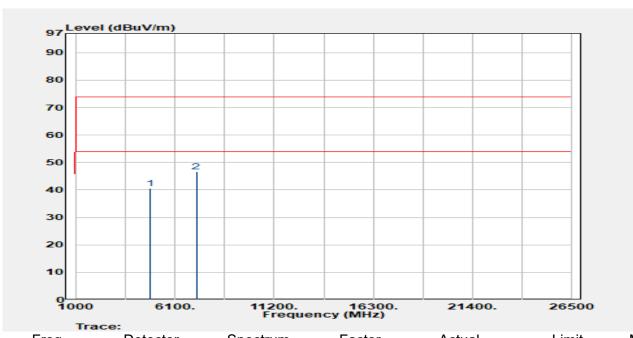
Report Number :TERF2211002256ER Test Site :SAC 2

Operation Mode :BR Test Date :2023-02-21

Test Frequency :2402 MHz Temp./Humi. :23.9/63

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :H Plane Engineer :Ricky Chen



	Irac	e:					
	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	38.60	2.10	40.70	74.00	-33.30
	7206.000	Peak	39.09	7.56	46.65	74.00	-27.35
	Freq.	Detector Mode	Peak Actual FS	Duty Cycle Factor (dB)	Average Value	Average Limit@3m	Margin (dB)
_	MHz	AV	(dBµV/m)	toi (db)	(dBuV/m)	(dBuV/m)	(GD)
	4804.000	Average	40.70	-25.04	15.66	54.00	-38.34
	7206.000	Average	46.65	-25.04	21.61	54.00	-32.39
	00.000	, wo.ago	10.00	20.01	21.01	01.00	02.00

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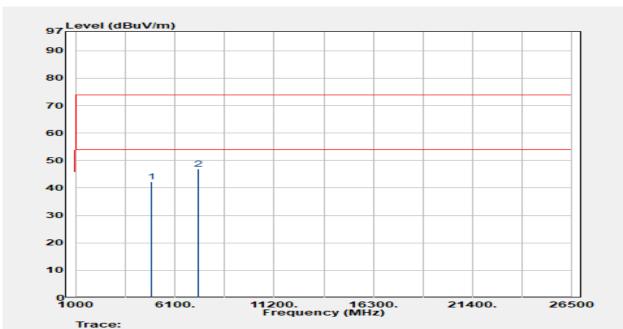
Report Number :TERF2211002256ER Test Site :SAC 2

Operation Mode :BR Test Date :2023-02-21

Test Frequency :2441 MHz Temp./Humi. :23.9/63

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :H Plane Engineer :Ricky Chen



11	race:					
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dΒμV/m	dBμV/m	dB
4882.000	Peak	39.66	2.66	42.32	74.00	-31.68
7323.000	Peak	39.18	7.70	46.88	74.00	-27.12
Freq.	Detector Mode	Peak Actual FS	Duty Cycle Factor (dB)	Average Value	Average Limit@3m	Margin (dB)
MHz	AV	(dBµV/m)	(42)	(dBuV/m)	(dBuV/m)	(GD)
4882.000	Average	42.32	-25.04	17.28	54.00	-36.72
7323.000	Average	46.88	-25.04	21.84	54.00	-32.16

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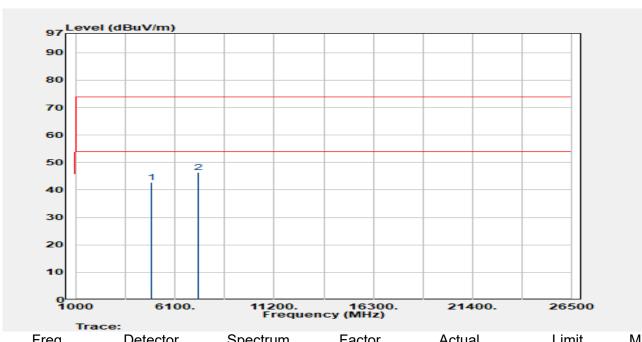
Report Number :TERF2211002256ER Test Site :SAC 2

Operation Mode :BR Test Date :2023-02-21

Test Frequency :2441 MHz Temp./Humi. :23.9/63

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :H Plane Engineer :Ricky Chen



Irac	e:					
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dΒμV/m	dBµV/m	dB
4882.000	Peak	40.23	2.66	42.88	74.00	-31.12
7323.000	Peak	38.69	7.70	46.39	74.00	-27.61
Freq.	Detector Mode	Peak Actual FS	Duty Cycle Factor (dB)	Average Value	Average Limit@3m	Margin (dB)
MHz	AV	(dBµV/m)	(4B)	(dBuV/m)	(dBuV/m)	(GD)
4882.000	Average	42.88	-25.04	17.84	54.00	-36.16
7323.000	Average	46.39	-25.04	21.35	54.00	-32.65

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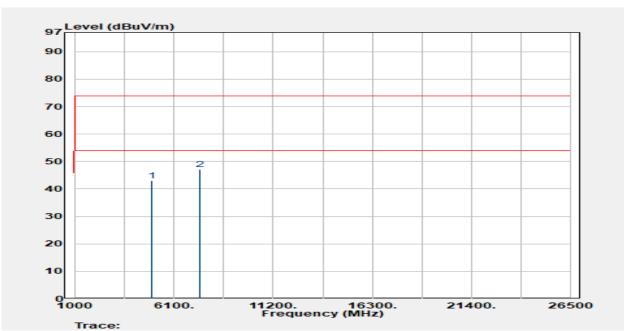
Report Number :TERF2211002256ER Test Site :SAC 2

Operation Mode :BR Test Date :2023-02-21

Test Frequency :2480 MHz Temp./Humi. :23.9/63

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :H Plane Engineer :Ricky Chen



Irac	e:					
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dΒμV/m	dBµV/m	dB
4960.000	Peak	40.32	2.80	43.12	74.00	-30.88
7440.000	Peak	39.07	7.97	47.04	74.00	-26.96
Freq.	Detector Mode	Peak Actual FS	Duty Cycle Factor (dB)	Average Value	Average Limit@3m	Margin (dB)
MHz	AV	(dBµV/m)	toi (db)	(dBuV/m)	(dBuV/m)	(GD)
4960.000	Average	43.12	-25.04	18.08	54.00	-35.92
7440.000	Average	47.04	-25.04	22.00	54.00	-32.00

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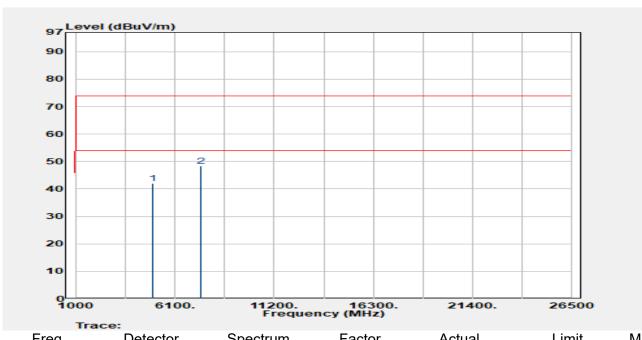
Report Number :TERF2211002256ER Test Site :SAC 2

Operation Mode :BR Test Date :2023-02-21

Test Frequency :2480 MHz Temp./Humi. :23.9/63

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :H Plane Engineer :Ricky Chen



	IIIac	e.					
	Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
	MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
	4960.000	Peak	39.37	2.80	42.17	74.00	-31.83
	7440.000	Peak	40.41	7.97	48.38	74.00	-25.62
	Freq.	Detector Mode	F.5	Duty Cycle Fac-	Average Value	Average Limit@3m	Margin
	MHz	AV	(dBµV/m)	tor (dB)	(dBuV/m)	(dBuV/m)	(dB)
-							
	4960.000	Average	42.17	-25.04	17.13	54.00	-36.87
	7440.000	Average	48.38	-25.04	23.34	54.00	-30.66
	7440.000	Average	40.50	-23.04	23.34	34.00	-30.00

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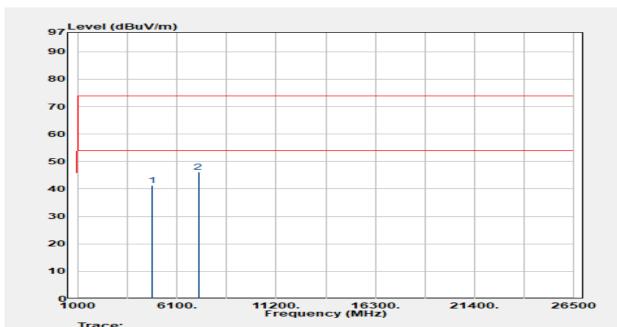
Report Number :TERF2211002256ER Test Site :SAC 2

Operation Mode :EDR 3M Test Date :2023-02-21

Test Frequency :2402 MHz Temp./Humi. :23.9/63

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :H Plane Engineer :Ricky Chen



Irac	e:					
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dΒμV/m	dBµV/m	dB
4804.000	Peak	39.29	2.10	41.39	74.00	-32.61
7206.000	Peak	38.73	7.56	46.29	74.00	-27.71
Freq.	Detector	Peak Actual	Duty Cycle Fac-	Average	Average	Margin
MHz	Mode AV	FS (dBµV/m)	tor (dB)	Value (dBuV/m)	Limit@3m (dBuV/m)	(dB)
4804.000	Average	41.39	-24.73	16.66	54.00	-37.34
7206.000	Average	46.29	-24.73	21.56	54.00	-32.44

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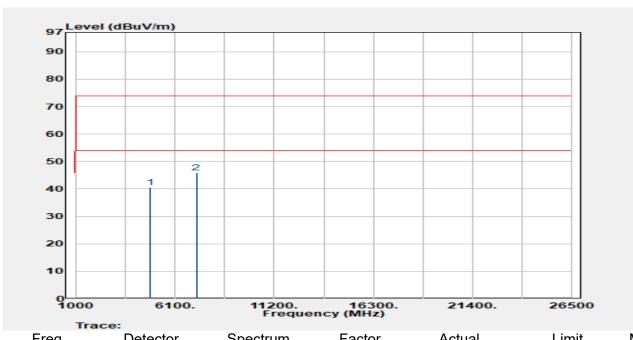
Report Number :TERF2211002256ER Test Site :SAC 2

Operation Mode :EDR 3M Test Date :2023-02-21

Test Frequency :2402 MHz Temp./Humi. :23.9/63

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :H Plane Engineer :Ricky Chen



IIac	е.					
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dΒμV/m	dBμV/m	dB
4804.000	Peak	38.53	2.10	40.63	74.00	-33.37
7206.000	Peak	38.38	7.56	45.94	74.00	-28.06
Freq.	Detector	Peak Actual	Duty Cycle Fee	Average	Average	Morgin
MHz	Mode AV	FS (dBµV/m)	Duty Cycle Factor (dB)	Value (dBuV/m)	Limit@3m (dBuV/m)	Margin (dB)
4804.000	Average	40.63	-24.73	15.90	54.00	-38.10
7206.000	Average	45.94	-24.73	21.21	54.00	-32.79

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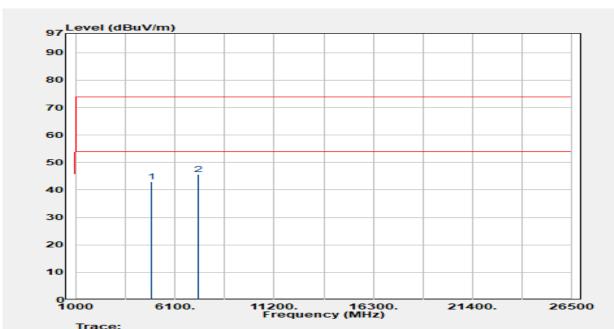
Report Number :TERF2211002256ER Test Site :SAC 2

Operation Mode :EDR 3M Test Date :2023-02-21

Test Frequency :2441 MHz Temp./Humi. :23.9/63

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :H Plane Engineer :Ricky Chen



	IIIac	e.					
	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	40.31	2.66	42.96	74.00	-31.04
	7323.000	Peak	37.89	7.70	45.60	74.00	-28.40
	Freq.	Detector Mode	-5	Duty Cycle Fac-	Average Value	Average Limit@3m	Margin
	MHz	AV	(dBµV/m) <sup>t</sup>	cor (dB)	(dBuV/m)	(dBuV/m)	(dB)
-							
	4882.000	Average	42.96	-24.73	18.23	54.00	-35.77
	7323.000	Average	45.60	04.70	20.07	E4.00	22.42
	7323.000	Average	45.60	-24.73	20.87	54.00	-33.13

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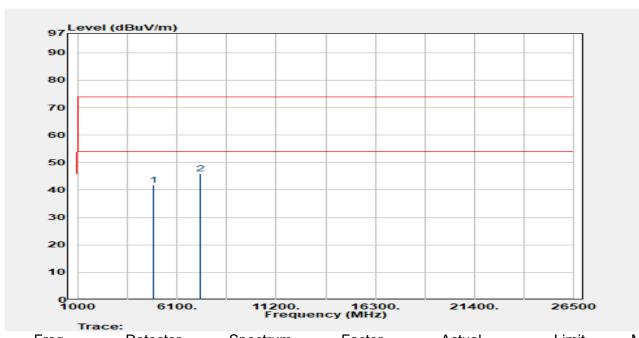
Report Number :TERF2211002256ER Test Site :SAC 2

Operation Mode :EDR 3M Test Date :2023-02-21

Test Frequency :2441 MHz Temp./Humi. :23.9/63

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :H Plane Engineer :Ricky Chen



Trac	e:					
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dΒμV/m	dBµV/m	dB
4882.000	Peak	39.12	2.66	41.77	74.00	-32.23
7323.000	Peak	38.21	7.70	45.91	74.00	-28.09
Freq.	Detector Mode	Peak Actual FS	Duty Cycle Fac-	Average Value	Average Limit@3m	Margin
MHz	AV	(dBµV/m)	tor (dB)	(dBuV/m)	(dBuV/m)	(dB)
4882.000	Average	41.77	-24.73	17.04	54.00	-36.96
7323.000	Average	45.91	-24.73	21.18	54.00	-32.82

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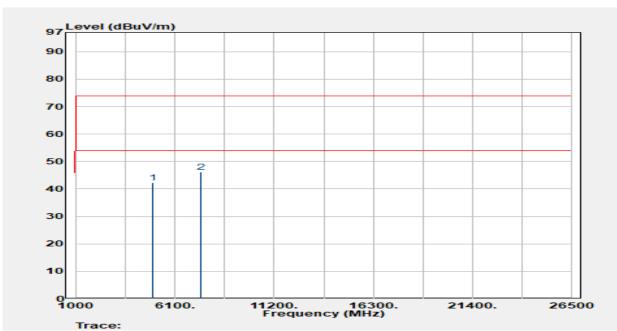
Report Number :TERF2211002256ER Test Site :SAC 2

Operation Mode :EDR 3M Test Date :2023-02-21

Test Frequency :2480 MHz Temp./Humi. :23.9/63

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :H Plane Engineer :Ricky Chen



mac	e.					
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dΒμV/m	dBµV/m	dB
4960.000	Peak	39.53	2.80	42.33	74.00	-31.67
7440.000	Peak	38.23	7.97	46.21	74.00	-27.79
Freq.	Detector Mode	Peak Actual FS	Duty Cycle Fac-	Average Value	Average Limit@3m	Margin
MHz	AV	(dBµV/m)	tor (dB)	(dBuV/m)	(dBuV/m)	(dB)
4960.000	Average	42.33	-24.73	17.60	54.00	-36.40
7440.000	Average	46.21	-24.73	21.48	54.00	-32.52

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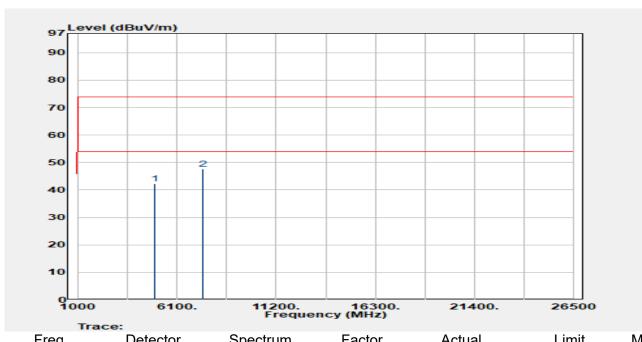
Report Number **Test Site** :SAC 2 :TERF2211002256ER

Operation Mode :EDR 3M **Test Date** :2023-02-21

Test Frequency :2480 MHz Temp./Humi. :23.9/63

Test Mode :Tx Antenna Pol. :Horizontal

Engineer **EUT Pol** :H Plane :Ricky Chen



muc						
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBµV/m	dBμV/m	dB
4960.000	Peak	39.44	2.80	42.24	74.00	-31.76
7440.000	Peak	39.60	7.97	47.57	74.00	-26.43
Freq.	Detector Mode	Peak Actual FS	Duty Cycle Fac-	Average Value	Average Limit@3m	Margin
MHz	AV	(dBµV/m)	tor (dB)	(dBuV/m)	(dBuV/m)	(dB)
4960.000	Average	42.24	-24.73	17.51	54.00	-36.49
7440.000	Average	47.57	-24.73	22.84	54.00	-31.16

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:Ricky Chen

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Engineer

# ANTO (dipole)

**EUT Pol** 

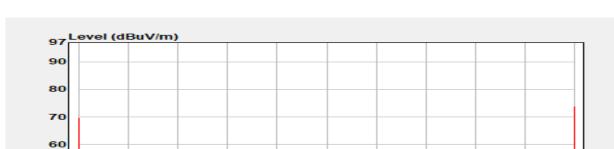
:H Plane

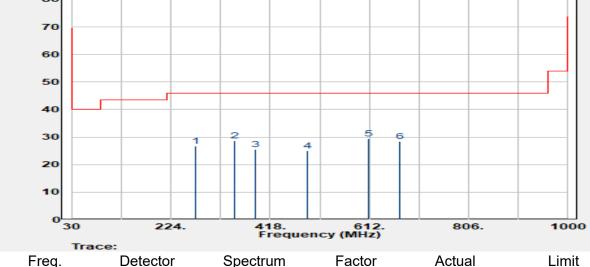
Report Number :TERF2211002256ER Test Site :SAC 2

**Operation Mode** :BR **Test Date** :2023-02-21

Test Frequency :2441 MHz Temp./Humi. :23.9/63

Test Mode :Tx Antenna Pol. :Vertical





	IIG	CC.							
	Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin		
_	MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB		
	272.500	Peak	39.73	-13.00	26.73	46.00	-19.27		
	348.160	Peak	39.92	-11.19	28.74	46.00	-17.26		
	389.870	Peak	35.55	-9.95	25.60	46.00	-20.40		
	491.720	Peak	32.88	-7.84	25.03	46.00	-20.97		
	611.030	Peak	34.28	-4.82	29.46	46.00	-16.54		
	671.170	Peak	32.69	-4.31	28.38	46.00	-17.62		

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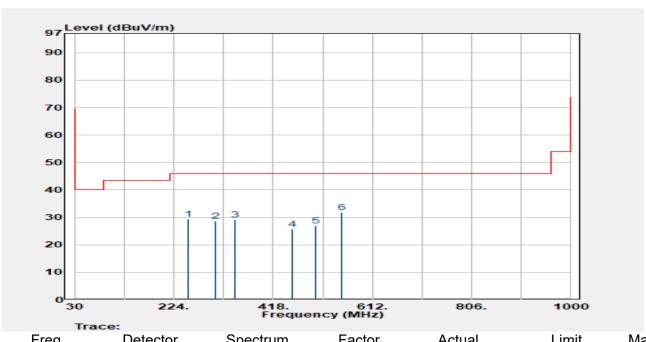
Report Number :TERF2211002256ER Test Site :SAC 2

Operation Mode :BR Test Date :2023-02-21

Test Frequency :2441 MHz Temp./Humi. :23.9/63

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :H Plane Engineer :Ricky Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
252.130	Peak	43.00	-13.63	29.37	46.00	-16.63
305.480	Peak	41.11	-12.44	28.68	46.00	-17.32
344.280	Peak	40.34	-11.11	29.23	46.00	-16.77
455.830	Peak	33.87	-8.13	25.75	46.00	-20.25
500.450	Peak	34.60	-7.57	27.03	46.00	-18.97
551.860	Peak	38.59	-6.76	31.83	46.00	-14.17

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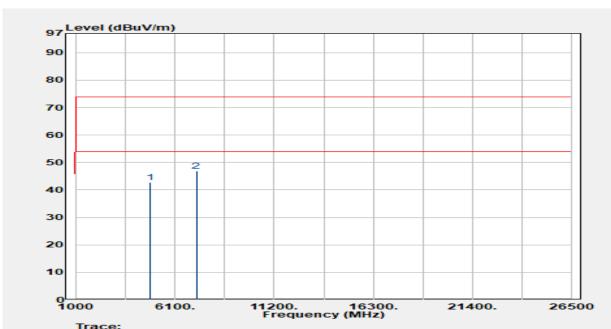
Report Number **Test Site** :SAC 2 :TERF2211002256ER

**Operation Mode Test Date** :2023-02-21 :BR

**Test Frequency** :2402 MHz Temp./Humi. :23.9/63

Test Mode :Tx Antenna Pol. :Vertical

Engineer **EUT Pol** :H Plane :Ricky Chen



	Trac	:e:					
	Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
	MHz	PK/QP/AV	dΒμ̈V	dB	dBµV/m	dBμV/m	dB
	4804.000	Peak	40.57	2.10	42.67	74.00	-31.33
	7206.000	Peak	39.39	7.56	46.95	74.00	-27.05
	Freq.	Detector	Peak Actual	Duty Cycle Factor	Average	Average	Margin
				JIIIV LACIOLE FACIOL	•	•	Maroin
	MHz	Mode AV	FS (dBµV/m)	(dB)	Value (dBuV/m)	Limit@3m (dBuV/m)	(dB)
-	MHz		F5	• •	value	_	•
-	MHz 4804.000		F5	• •	value	_	_
-	_	AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)

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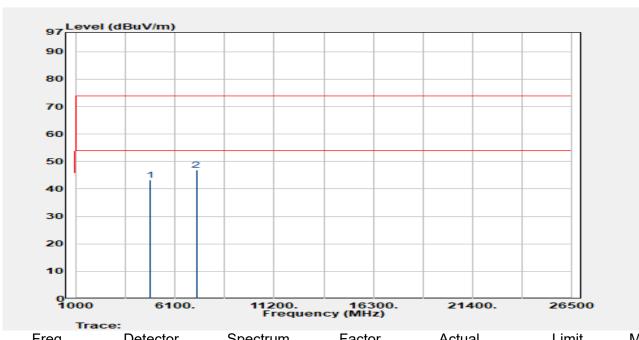
Report Number **Test Site** :SAC 2 :TERF2211002256ER

**Operation Mode Test Date** :2023-02-21 :BR

**Test Frequency** :2402 MHz Temp./Humi. :23.9/63

Test Mode :Tx Antenna Pol. :Horizontal

Engineer **EUT Pol** :H Plane :Ricky Chen



	Trac	•••	da	oney (minz)				
	Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin	
	MHz	PK/QP/AV	dBµV	dB	dBμV/m	dBµV/m	dB	
	4804.000	Peak	41.19	2.10	43.29	74.00	-30.71	
	7206.000	Peak	39.44	7.56	46.99	74.00	-27.01	
	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	43.29	-25.04	18.25	54.00	-35.75	
	7206.000	Average	46.99	-25.04	21.95	54.00	-32.05	

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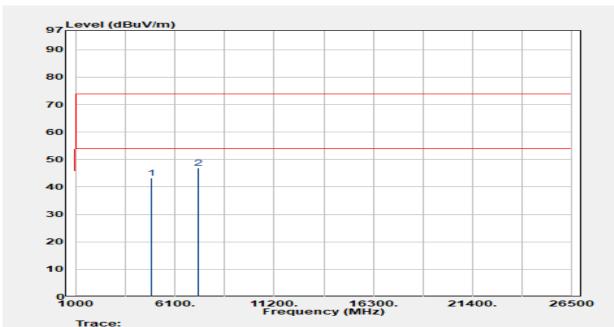
Report Number **Test Site** :SAC 2 :TERF2211002256ER

**Operation Mode Test Date** :2023-02-21 :BR

Test Frequency :2441 MHz Temp./Humi. :23.9/63

Test Mode :Tx Antenna Pol. :Vertical

**EUT Pol** :H Plane Engineer :Ricky Chen



Trac	e:					
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBμV/m	dB
4882.000	Peak	40.59	2.66	43.25	74.00	-30.75
7323.000	Peak	39.29	7.70	46.99	74.00	-27.01
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	43.25	-25.04	18.21	54.00	-35.79
7323.000	Average	46.99	-25.04	21.95	54.00	-32.05

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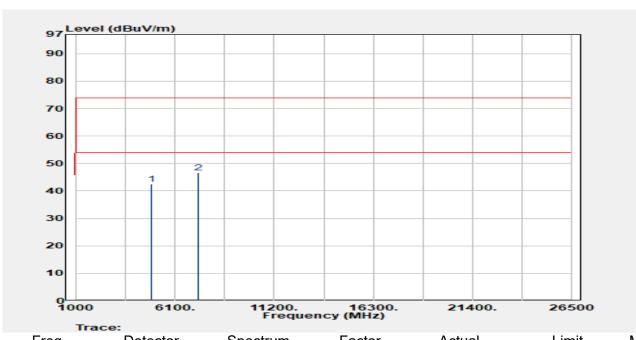
Report Number **Test Site** :SAC 2 :TERF2211002256ER

**Operation Mode Test Date** :2023-02-21 :BR

**Test Frequency** :2441 MHz Temp./Humi. :23.9/63

Test Mode :Tx Antenna Pol. :Horizontal

Engineer **EUT Pol** :H Plane :Ricky Chen



	Trac	ce:					
	Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
_	MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dΒμV/m	dB
	4882.000	Peak	39.81	2.66	42.47	74.00	-31.53
	7323.000	Peak	38.88	7.70	46.58	74.00	-27.42
	Freq.	Detector Mode	FS	Duty Cycle Factor (dB)	value	Average Limit@3m	Margin (dB)
-	MHz	AV	(dBµV/m)	(42)	(dBuV/m)	(dBuV/m)	(42)
	4882.000	Average	42.47	-25.04	17.43	54.00	-36.57
		9 -					
	7323.000	Average	46.58	-25.04	21.54	54.00	-32.46

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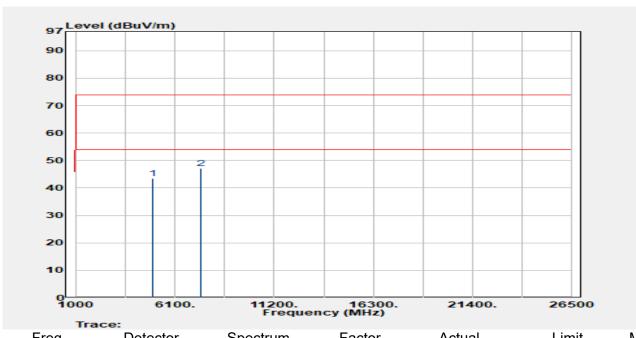
Report Number **Test Site** :SAC 2 :TERF2211002256ER

**Operation Mode Test Date** :2023-02-21 :BR

**Test Frequency** :2480 MHz Temp./Humi. :23.9/63

Test Mode :Tx Antenna Pol. :Vertical

**EUT Pol** :H Plane Engineer :Ricky Chen



Trac	ce:					
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dΒμV/m	dB
4960.000	Peak	40.77	2.80	43.57	74.00	-30.43
7440.000	Peak	39.17	7.97	47.15	74.00	-26.85
Freq.	Detector	Peak Actual	Duty Cyclo Factor	Average	Average	Morgin
MHz	Mode AV	FS (dBµV/m)	(dB)	Value (dBuV/m)	Limit@3m (dBuV/m)	Margin (dB)
4960.000	Average	43.57	-25.04	18.53	54.00	-35.47
7440.000	Average	47.15	-25.04	22.11	54.00	-31.89
	Freq.  MHz  4960.000 7440.000  Freq.  MHz  4960.000	MHz Mode PK/QP/AV  4960.000 Peak Peak  Freq. Detector Mode MHz AV  4960.000 Average	Freq. Detector Mode Reading Level MHz PK/QP/AV dBμV  4960.000 Peak 40.77 7440.000 Peak 39.17  Freq. Detector Peak Actual FS MHz AV (dBμV/m)  4960.000 Average 43.57	Freq.Detector Mode PK/QP/AVSpectrum Reading Level dBμVFactor dB4960.000 7440.000Peak Peak40.77 39.172.80 7.97Freq.Detector Mode FS (dBμV/m)Peak Actual FS (dBμV/m)Duty Cycle Factor (dB)4960.000Average43.57-25.04	Freq.         Detector Mode Mode PK/QP/AV         Spectrum Reading Level ABμV         Factor ABμV         Actual FS ABμV/m           4960.000 Peak 7440.000 Peak 7440.000 Peak Mode MHz         40.77 Peak Actual Peak Actual (dBμV/m)         2.80 Peak A3.57 Peak Actual Peak Actual (dBμV/m)         47.15           Freq. Mode MHz AV         Peak Actual (dBμV/m)         Duty Cycle Factor (dB) Value (dBuV/m)         Average Value (dBuV/m)           4960.000 Average         43.57 Peak Actual Average Value (dBuV/m)         4960.000         Average Value (dBuV/m)	Freq.         Detector Mode PK/QP/AV         Spectrum Reading Level ABμV         Factor ABμV/m         Actual FS @3m ABμV/m         Limit @3m ABμV/m           4960.000         Peak PK/QP/AV         40.77 2.80 43.57 74.00         74.00 7440.00         74.00 74.15         74.00           Freq.         Detector Mode FS (dBμV/m)         Duty Cycle Factor (dB) Value (dBuV/m)         Average Limit@3m (dBuV/m)         Average Limit@3m (dBuV/m)           4960.000         Average Average Limit@3m (dBuV/m)         Average (dBuV/m)         Average (dBuV/m)         Average (dBuV/m)

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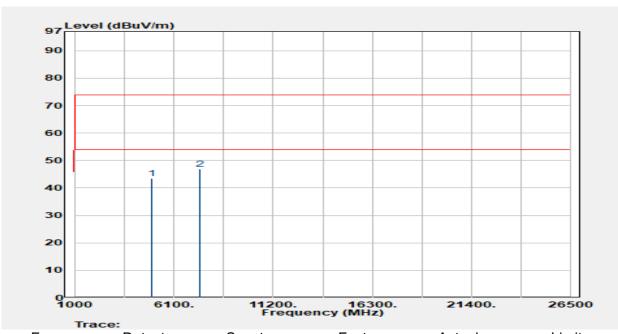
Report Number **Test Site** :SAC 2 :TERF2211002256ER

**Operation Mode Test Date** :2023-02-21 :BR

**Test Frequency** :2480 MHz Temp./Humi. :23.9/63

Test Mode :Tx Antenna Pol. :Horizontal

**EUT Pol** :H Plane Engineer :Ricky Chen



	Frequency (MHz)							
	Trac	e:						
	Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
	•	Mode	Reading Level		FS	@3m	•	
	MHz	PK/QP/AV	dBuV	dB	dBµV/m	dBµV/m	dB	
-	1411 12	1 10 001 // 10	чърт	<u>ub</u>	аБр үүн	аврулп	<u> </u>	
	4960.000	Peak	40.68	2.80	43.48	74.00	-30.52	
	7440.000	Peak	38.91	7.97	46.89	74.00	-27.11	
	Freq.	Detector	Peak Actual	Duty Cycle Factor	Average	Average	Morgin	
		Mode	FS	•	Value	Limit@3m	Margin	
	MHz	AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
_	1711 12	, , , v	(dDp v/iii)		(abav/iii)	(abav/iii)		
	4960.000	Avorago	43.48	-25.04	18.44	54.00	-35.56	
	4900.000	Average	43.40	-23.04	10.44	54.00	-33.30	
	7440.000	Average	46.89	-25.04	21.85	54.00	-32.15	
		Ū						

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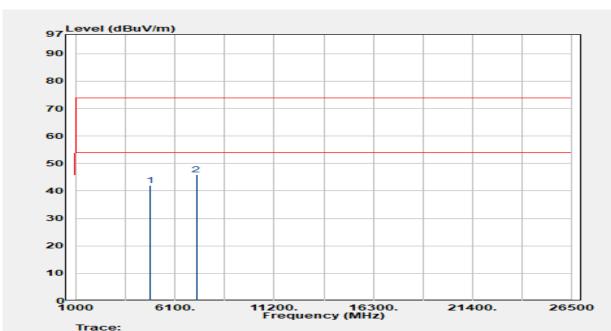
Report Number **Test Site** :SAC 2 :TERF2211002256ER

Operation Mode :EDR 3M **Test Date** :2023-02-21

Test Frequency :2402 MHz Temp./Humi. :23.9/63

Test Mode :Tx Antenna Pol. :Vertical

Engineer **EUT Pol** :H Plane :Ricky Chen



	Trac	•••		, , , , , , , , , , , , , , , , , , , ,			
	Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
	MHz	PK/QP/AV	dBµV	dB	dΒμV/m	dΒμV/m	dB
	4804.000	Peak	40.05	2.10	42.15	74.00	-31.85
	7206.000	Peak	38.35	7.56	45.90	74.00	-28.10
	Freq.	Detector Mode	Peak Actual FS	Duty Cycle Factor (dB)	value	Average Limit@3m	Margin (dB)
	MHz	AV	(dBµV/m)	(db)	(dBuV/m)	(dBuV/m)	(UD)
-							
	4804.000	Average	42.15	-25.04	17.11	54.00	-36.89
	7206.000	Average	45.90	-25.04	20.86	54.00	-33.14

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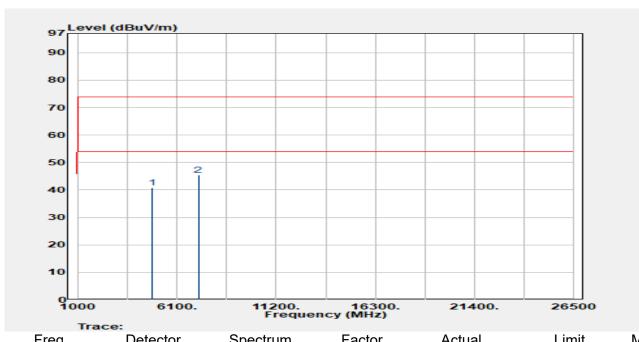
Report Number **Test Site** :SAC 2 :TERF2211002256ER

Operation Mode :EDR 3M **Test Date** :2023-02-21

Test Frequency :2402 MHz Temp./Humi. :23.9/63

Test Mode :Tx Antenna Pol. :Horizontal

Engineer **EUT Pol** :H Plane :Ricky Chen



Trac	e:					
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	38.81	2.10	40.91	74.00	-33.09
7206.000	Peak	37.99	7.56	45.54	74.00	-28.46
_						
Freq. MHz	Detector Mode AV	Peak Actual FS (dBµV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4804.000	Average	40.91	-25.04	15.87	54.00	-38.13
7206.000	Average	45.54	-25.04	20.50	54.00	-33.50
	9					

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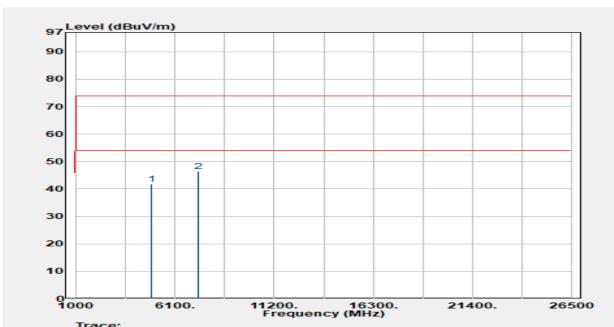
Report Number **Test Site** :SAC 2 :TERF2211002256ER

Operation Mode :EDR 3M **Test Date** :2023-02-21

Test Frequency :2441 MHz Temp./Humi. :23.9/63

Test Mode :Tx Antenna Pol. :Vertical

Engineer **EUT Pol** :H Plane :Ricky Chen



Trac	٠	rioqui	oney (mile)				
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB	
4882.000	Peak	39.23	2.66	41.88	74.00	-32.12	
7323.000	Peak	38.80	7.70	46.51	74.00	-27.49	
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	41.88	-25.04	16.84	54.00	-37.16	
7323.000	Average	46.51	-25.04	21.47	54.00	-32.53	

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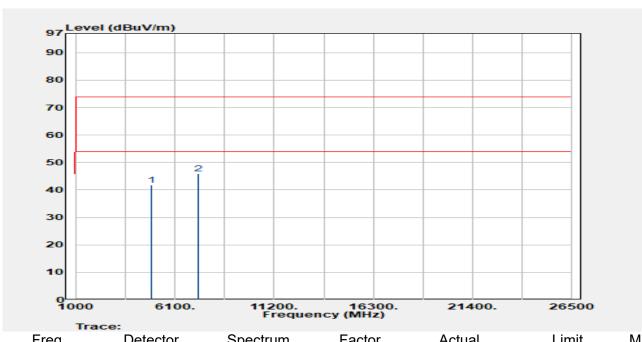
Report Number **Test Site** :SAC 2 :TERF2211002256ER

Operation Mode :EDR 3M **Test Date** :2023-02-21

Test Frequency :2441 MHz Temp./Humi. :23.9/63

Test Mode :Tx Antenna Pol. :Horizontal

Engineer **EUT Pol** :H Plane :Ricky Chen



Trac	e:					
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμ̈V	dB	dBμV/m	dBμV/m	dB
4882.000	Peak	39.06	2.66	41.72	74.00	-32.28
7323.000	Peak	38.36	7.70	46.06	74.00	-27.94
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	41.72	-25.04	16.68	54.00	-37.32
7323.000	Average	46.06	-25.04	21.02	54.00	-32.98

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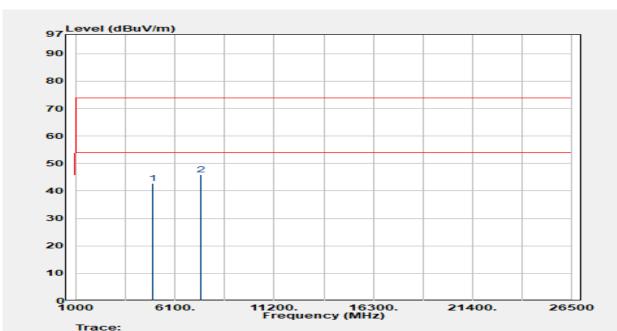
Report Number :TERF2211002256ER Test Site :SAC 2

Operation Mode :EDR 3M Test Date :2023-02-21

Test Frequency :2480 MHz Temp./Humi. :23.9/63

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :H Plane Engineer :Ricky Chen



Irac	e:					
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμ̈V	dB	dBμV/m	dΒμV/m	dB
4960.000	Peak	39.98	2.80	42.78	74.00	-31.22
7440.000	Peak	38.00	7.97	45.98	74.00	-28.02
Freq.	Detector	Peak Actual		Average	Average	
r req.	Mode	FS	Duty Cycle Factor	Value	Limit@3m	Margin
MHz	AV	$(dB\mu V/m)$	(dB)	(dBuV/m)	(dBuV/m)	(dB)
4960.000	Average	42.78	-25.04	17.74	54.00	-36.26
7440.000	Average	45.98	-25.04	20.94	54.00	-33.06

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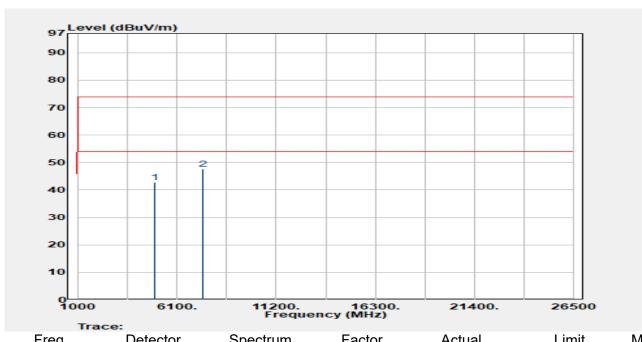
Report Number **Test Site** :SAC 2 :TERF2211002256ER

**Operation Mode** :EDR 3M **Test Date** :2023-02-21

Test Frequency :2480 MHz Temp./Humi. :23.9/63

Test Mode :Tx Antenna Pol. :Horizontal

**EUT Pol** :H Plane Engineer :Ricky Chen



	TI CAN						
	Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
	MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
	4960.000	Peak	40.04	2.80	42.84	74.00	-31.16
	7440.000	Peak	39.67	7.97	47.65	74.00	-26.35
	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)
_							
	4960.000	Average	42.84	-25.04	17.80	54.00	-36.20
	7440.000	Average	47.65	-25.04	22.61	54.00	-31.39

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## BT\_ANT (dipole)

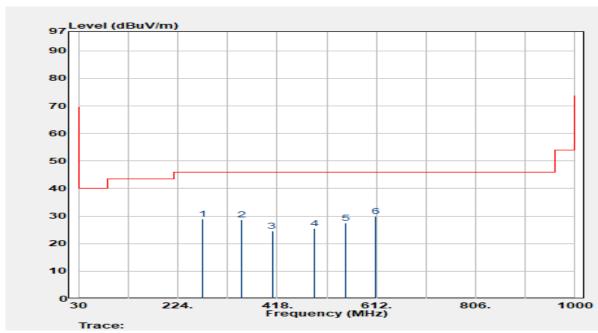
Report Number :TERF2211002256ER Test Site :SAC 2

Operation Mode :BR Test Date :2023-01-17

Test Frequency :2441 MHz Temp./Humi. :23.6/62

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :H Plane Engineer :Ricky Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBμV/m	dB
273.470	Peak	41.79	-12.97	28.82	46.00	-17.18
348.160	Peak	39.85	-11.19	28.66	46.00	-17.34
408.300	Peak	34.38	-9.71	24.67	46.00	-21.33
491.720	Peak	33.32	-7.84	25.48	46.00	-20.52
551.860	Peak	34.29	-6.76	27.53	46.00	-18.47
611.030	Peak	34.67	-4.82	29.86	46.00	-16.14

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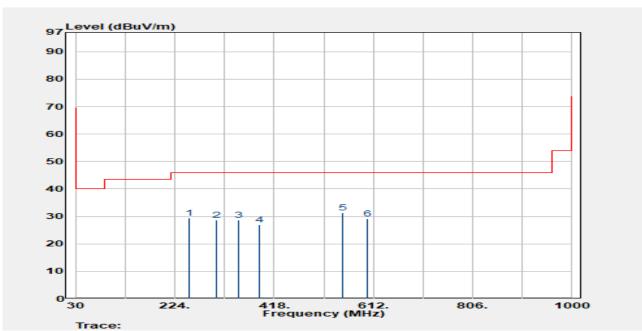
Report Number **Test Site** :SAC 2 :TERF2211002256ER

**Operation Mode Test Date** :2023-01-17 :BR

Test Frequency :2441 MHz Temp./Humi. :23.6/62

Test Mode :Tx Antenna Pol. :Horizontal

**EUT Pol** :H Plane Engineer :Ricky Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dΒμV/m	dBµV/m	dB
252.130	Peak	43.08	-13.63	29.45	46.00	-16.55
305.480	Peak	41.06	-12.44	28.62	46.00	-17.38
348.160	Peak	39.90	-11.19	28.71	46.00	-17.29
388.900	Peak	37.00	-10.01	26.99	46.00	-19.01
551.860	Peak	38.10	-6.76	31.34	46.00	-14.66
600.360	Peak	33.84	-4.78	29.05	46.00	-16.95

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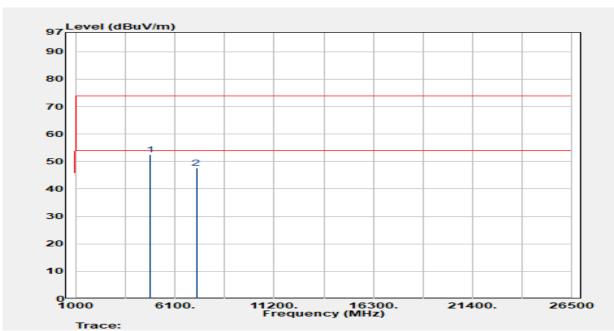
Report Number :TERF2211002256ER Test Site :SAC 2

Operation Mode :BR Test Date :2023-01-17

Test Frequency :2402 MHz Temp./Humi. :23.6/62

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :H Plane Engineer :Ricky Chen



	Irac	ce:					
	Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
	MHz	PK/QP/AV	dBµV	dB	dBμV/m	dBµV/m	dB
	4804.000	Peak	50.46	2.10	52.56	74.00	-21.44
	7206.000	Peak	40.06	7.56	47.61	74.00	-26.39
	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	52.56	-24.73	27.83	54.00	-26.17
	7206.000	Average	47.61	-24.73	22.88	54.00	-31.12

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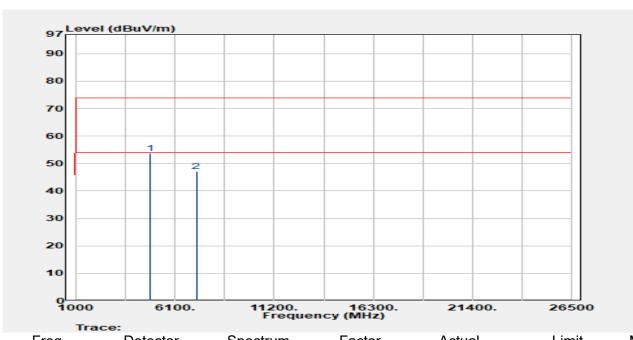
Report Number **Test Site** :SAC 2 :TERF2211002256ER

**Operation Mode Test Date** :2023-01-17 :BR

**Test Frequency** :2402 MHz Temp./Humi. :23.6/62

Test Mode :Tx Antenna Pol. :Horizontal

Engineer **EUT Pol** :H Plane :Ricky Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBμV/m	dB
4804.000	Peak	51.74	2.10	53.84	74.00	-20.16
7206.000	Peak	39.60	7.56	47.15	74.00	-26.85
Freq.	Detector Mode	Peak Actual FS	Duty Cycle Factor (dB)	Average Value	Average Limit@3m	Margin
MHz	AV	(dBµV/m)	(db)	(dBuV/m)	(dBuV/m)	(dB)
4804.000	Average	53.84	-24.73	29.11	54.00	-24.89
7206.000	Average	47.15	-24.73	22.42	54.00	-31.58

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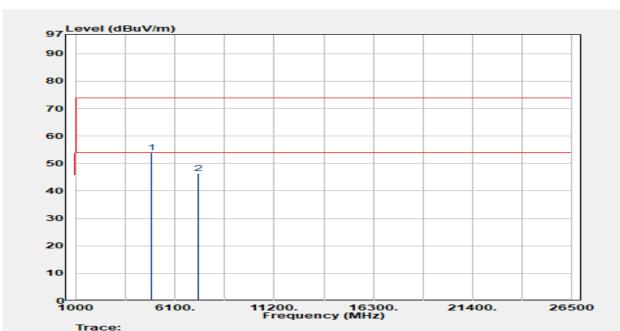
Report Number :TERF2211002256ER Test Site :SAC 2

Operation Mode :BR Test Date :2023-01-17

Test Frequency :2441 MHz Temp./Humi. :23.6/62

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :H Plane Engineer :Ricky Chen



Trac	e:	ricque	circy (miliz)			
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4882.000	Peak	51.28	2.66	53.94	74.00	-20.06
7323.000	Peak	38.78	7.70	46.49	74.00	-27.51
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	53.94	-24.73	29.21	54.00	-24.79
7323.000	Average	46.49	-24.73	21.76	54.00	-32.24

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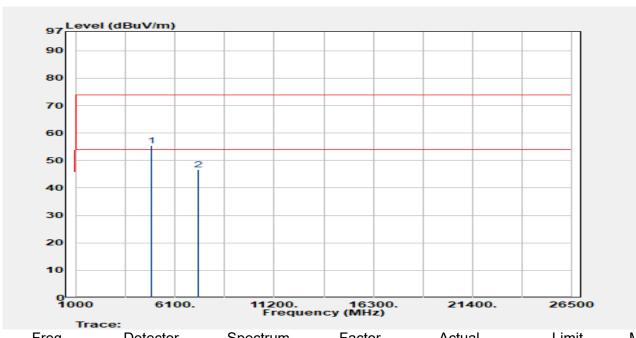
Report Number :TERF2211002256ER Test Site :SAC 2

Operation Mode :BR Test Date :2023-01-17

Test Frequency :2441 MHz Temp./Humi. :23.6/62

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :H Plane Engineer :Ricky Chen



	Trac	e:					
	Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
	MHz	PK/QP/AV	dBµV	dB	dBµV/m	dΒμV/m	dB
	4882.000	Peak	52.73	2.66	55.39	74.00	-18.61
	7323.000	Peak	38.95	7.70	46.65	74.00	-27.35
	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	55.39	-24.73	30.66	54.00	-23.34
		_	40.0=	0.4.70	04.00	<b>5400</b>	00.00
	7323.000	Average	46.65	-24.73	21.92	54.00	-32.08

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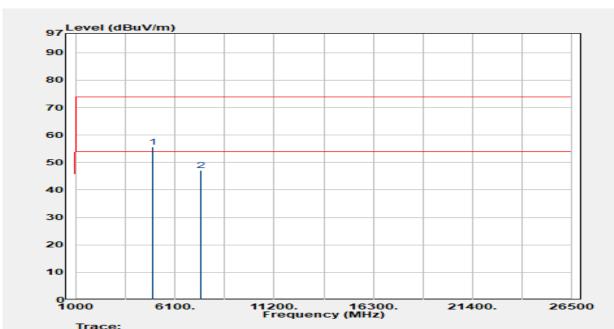
Report Number :TERF2211002256ER Test Site :SAC 2

Operation Mode :BR Test Date :2023-01-17

Test Frequency :2480 MHz Temp./Humi. :23.6/62

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :H Plane Engineer :Ricky Chen



	Irac	e:					
	Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
	MHz	PK/QP/AV	dBµV	dB	dΒμV/m	dBμV/m	dB
	4960.000	Peak	52.85	2.80	55.65	74.00	-18.35
	7440.000	Peak	39.25	7.97	47.23	74.00	-26.77
	Freq.	Detector Mode	Peak Actual FS	Duty Cycle Factor	Average Value	Average Limit@3m	Margin
	MHz	AV	$(dB\mu V/m)$	(dB)	(dBuV/m)	(dBuV/m)	(dB)
•							
	4960.000	Average	55.65	-24.73	30.92	54.00	-23.08
	7440.000						
	7440.000	Average	47.23	-24.73	22.50	54.00	-31.50

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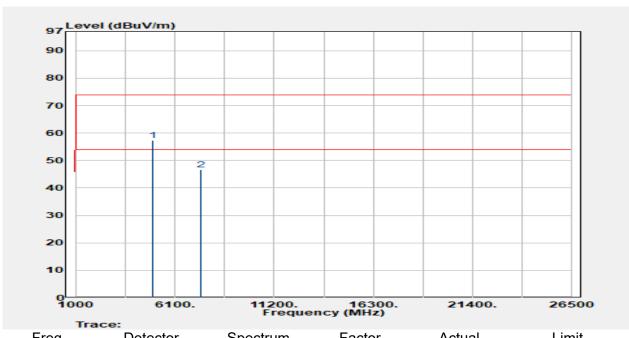
Report Number :TERF2211002256ER Test Site :SAC 2

Operation Mode :BR Test Date :2023-01-17

Test Frequency :2480 MHz Temp./Humi. :23.6/62

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :H Plane Engineer :Ricky Chen



	Irac	e:					
	Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
	MHz	PK/QP/AV	dBµV	dB	dΒμV/m	dBμV/m	dB
	4960.000	Peak	54.61	2.80	57.41	74.00	-16.59
	7440.000	Peak	38.72	7.97	46.70	74.00	-27.30
	Freq.	Detector Mode	Peak Actual FS	Duty Cycle Factor (dB)	value	Average Limit@3m	Margin (dB)
_	MHz	AV	(dBµV/m)	()	(dBuV/m)	(dBuV/m)	
	4960.000	Average	57.41	-24.73	32.68	54.00	-21.32
	7440.000	Average	46.70	-24.73	21.97	54.00	-32.03
	7 1 10.000	/ werage	70.70	-27.10	21.01	J <del>-1</del> .00	-02.00

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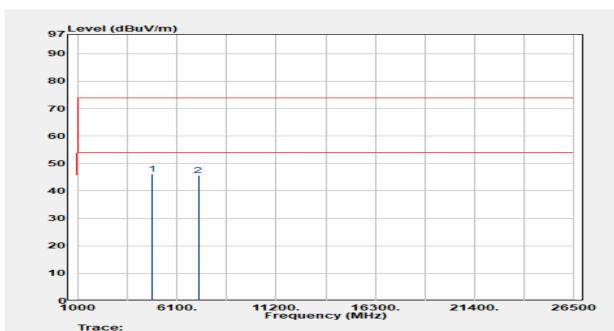
Report Number :TERF2211002256ER Test Site :SAC 2

Operation Mode :EDR 3M Test Date :2023-01-17

Test Frequency :2402 MHz Temp./Humi. :23.6/62

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :H Plane Engineer :Ricky Chen



	Trac	ce:					
	Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
	MHz	PK/QP/AV	dBµV	dB	dBµV/m	dΒμV/m	dB
	4804.000	Peak	44.18	2.10	46.28	74.00	-27.72
	7206.000	Peak	38.21	7.56	45.77	74.00	-28.23
	Freq.	Detector Mode	Peak Actual FS	Duty Cycle Factor	Average Value	Average Limit@3m	Margin
		Mode		(dB)			(dB)
	MHz	AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
_	MHz			(dB)			(dB)
	MHz 4804.000			(dB) -25.35			-33.07
		AV	(dBµV/m)		(dBuV/m)	(dBuV/m)	

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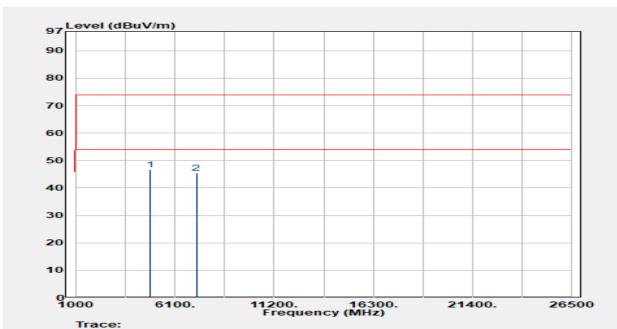
Report Number :TERF2211002256ER Test Site :SAC 2

Operation Mode :EDR 3M Test Date :2023-01-17

Test Frequency :2402 MHz Temp./Humi. :23.6/62

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :H Plane Engineer :Ricky Chen



IIac	е.					
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dΒμV/m	dB
4804.000	Peak	44.61	2.10	46.71	74.00	-27.29
7206.000	Peak	37.92	7.56	45.47	74.00	-28.53
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	46.71	-25.35	21.36	54.00	-32.64
7206.000	Average	45.47	-25.35	20.12	54.00	-33.88

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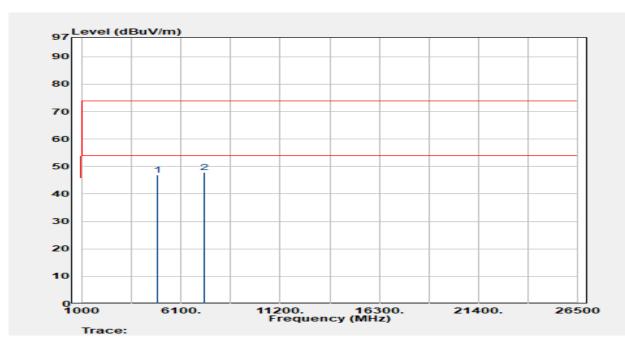
Report Number **Test Site** :SAC 2 :TERF2211002256ER

Operation Mode :EDR 3M **Test Date** :2023-01-17

Test Frequency :2441 MHz Temp./Humi. :23.6/62

Test Mode :Tx Antenna Pol. :Vertical

Engineer **EUT Pol** :H Plane :Ricky Chen



Freq.	Detector Mode	Spectrum Reading Level		Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
4882.000	Peak	44.26	2.66	46.92	74.00	-27.08
7323.000	Peak	40.13	7.70	47.83	74.00	-26.17
Freq. MHz	Detector Mode AV	Peak Actual FS (dBµV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
IVITZ	Av	(ασμν/ιιι)	. ,	(ubuv/III)	(ubuv/III)	
4882.000	Average	46.92	-25.35	21.57	54.00	-32.43
7323.000	Average	47.83	-25.35	22.48	54.00	-31.52
	•					

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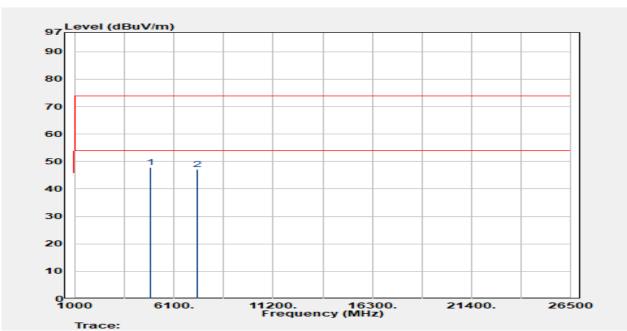
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Operation Mode :EDR 3M **Test Date** :2023-01-17

Test Frequency :2441 MHz Temp./Humi. :23.6/62

Test Mode :Tx Antenna Pol. :Horizontal

Engineer **EUT Pol** :H Plane :Ricky Chen



Trac	e:					
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμ̈V	dB	dBµV/m	dΒμV/m	dB
4882.000	Peak	45.29	2.66	47.95	74.00	-26.05
7323.000	Peak	39.39	7.70	47.10	74.00	-26.90
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	47.95	-25.35	22.60	54.00	-31.40
7323.000	Average	47.10	-25.35	21.75	54.00	-32.25

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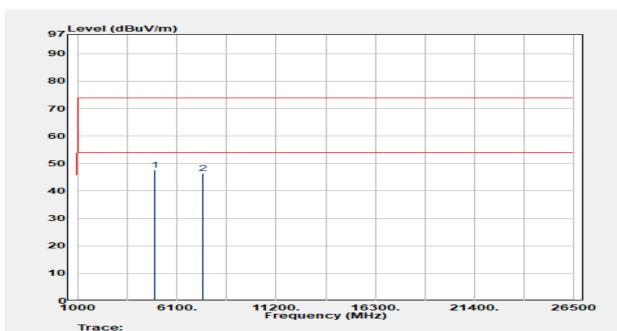
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Operation Mode :EDR 3M Test Date :2023-01-17

Test Frequency :2480 MHz Temp./Humi. :23.6/62

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :H Plane Engineer :Ricky Chen



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Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dΒμV/m	dΒμV/m	dB
4960.000	Peak	44.73	2.80	47.53	74.00	-26.47
7440.000	Peak	38.50	7.97	46.47	74.00	-27.53
Freq.	Detector Mode	Peak Actual FS	Duty Cycle Factor	Average Value	Average Limit@3m	Margin
MHz	AV	$(dB\mu V/m)$	(dB)	(dBuV/m)	(dBuV/m)	(dB)
4960.000	Average	47.53	-25.35	22.18	54.00	-31.82
7440.000	Average	46.47	-25.35	21.12	54.00	-32.88

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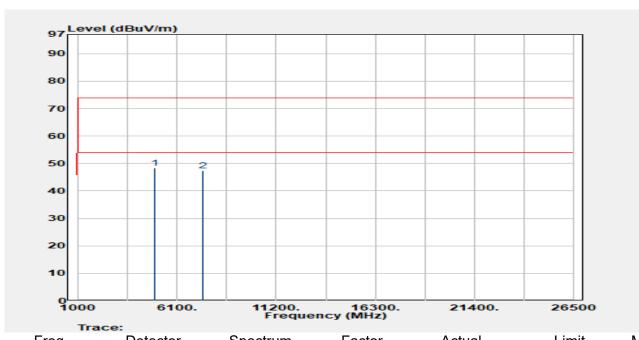
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Operation Mode :EDR 3M **Test Date** :2023-01-17

Test Frequency :2480 MHz Temp./Humi. :23.6/62

Test Mode :Tx Antenna Pol. :Horizontal

Engineer **EUT Pol** :H Plane :Ricky Chen



ce:					
Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
PK/QP/AV	dBµV	dB	dΒμV/m	dΒμV/m	dB
Peak	45.55	2.80	48.35	74.00	-25.65
Peak	39.34	7.97	47.32	74.00	-26.68
Detector Mode	Peak Actual FS	• •	Average Value	Average Limit@3m	Margin
AV	$(dB\mu V/m)$	(dB)	(dBuV/m)	(dBuV/m)	(dB)
Average	48.35	-25.35	23.00	54.00	-31.00
Average	47.32	-25.35	21.97	54.00	-32.03
	Mode PK/QP/AV  Peak Peak  Detector Mode AV  Average	Detector Mode PK/QP/AV  Peak Peak A5.55 Peak  Detector Mode AV  Average  Spectrum Reading Level dBμV  Peak 45.55 39.34  Peak Actual FS (dBμV/m)	Detector Spectrum Factor Mode Reading Level PK/QP/AV dBμV dB  Peak 45.55 2.80 Peak 39.34 7.97  Detector Peak Actual FS (dBμV/m)  Average 48.35 -25.35	Detector Mode PK/QP/AVSpectrum Reading Level dBμVFactor dBActual FS dBPeak Peak45.55 39.342.80 7.9748.35 47.32Detector Mode AVPeak Actual FS (dBμV/m)Duty Cycle Factor (dB)Average Value (dBuV/m)AverageValue (dBuV/m)	Detector Mode PK/QP/AV         Spectrum Reading Level ABμV         Factor ABμV         Actual FS         Limit @3m AV           Peak PER Actual AV         45.55         2.80         48.35         74.00           Peak Peak Actual AV         7.97         47.32         74.00           AVerage AV         AVERAGE ACTUAL (ABμV/m)         Duty Cycle Factor (ABμV/m)         AVERAGE A

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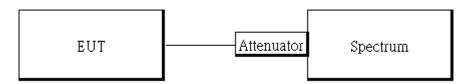
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### 12 FREQUENCY SEPARATION

### 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.
- 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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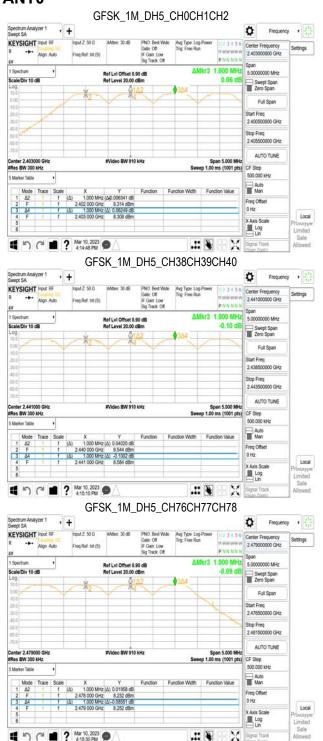
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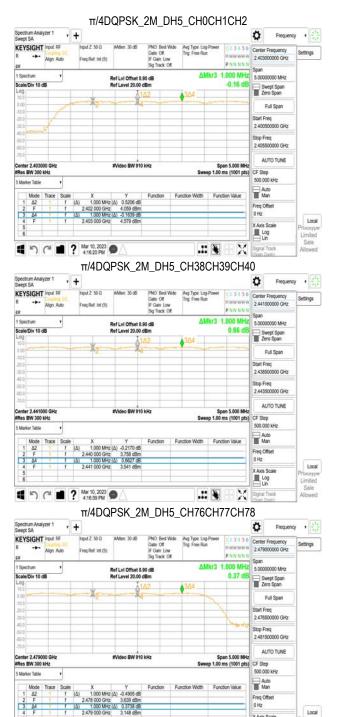
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■ ? Mar 10, 2023 ●

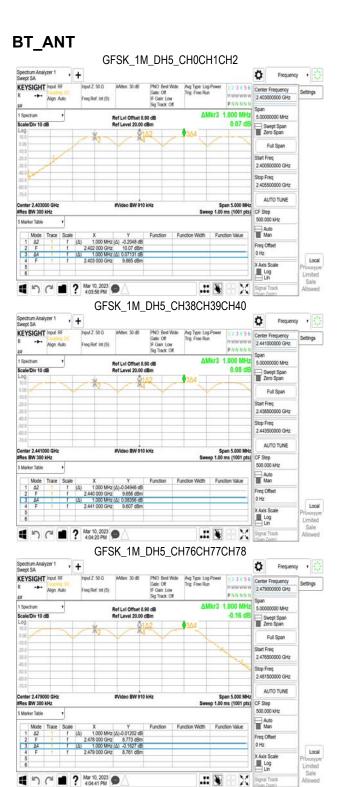
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#### 8DPSK 3M DH5 CH0CH1CH2 ٥ KEYSIGHT Input RF Span 5.00000000 MHz Ref Lvl Offset 0.90 dB -0.77 d Swept Span Zero Span 2.400500000 GHz Stop Freq 2.4055000 AUTO TUNE #Res BW 300 kH Auto Man Function Width Function Value (A) 1.000 MHz (Δ) 0.3810 dB 1.000 MHz (Δ) 0.3810 dB 2.402 000 GHz 4.160 dBm 1.000 MHz (Δ) -0.7687 dB 2.403 000 GHz 4.541 dBm Freq Offset 0 Hz Local Log Lin ■ つ C ■ ? Mar 10, 2023 ● .:: ¥ 8DPSK\_3M\_DH5\_CH38CH39CH40 ٥ KEYSIGHT Input RF Settings 2.441000000 GH Scale/Div 10 dB -0.70 Swept Span Zero Span Full Span #Video BW 910 kHz 500,000 kHz Auto Man Function Function Width Function Value X Y 1.000 MHz (Δ) -0.4838 dB 2.440 000 GHz 4.496 dBm 1.000 MHz (Δ) -0.7043 dB 2.441 000 GHz 4.014 dBm (Δ) Freq Offse 0 Hz X Axis Scale Log Lin ■ 9 C ■ ? Mar 10, 2023 ● .:: ₹ 8DPSK\_3M\_DH5\_CH76CH77CH78 ٥ Frequency + KEYSIGHT Input RE 2.479000000 GHz 5.00000000 MHz Ref Lvl Offset 0.90 dB Ref Level 20.00 dBm Scale/Div 10 dB 0.40 Swept Span Zero Span Full Span 2.476500000 GHz AUTO TUNE



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Local

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X Y 1.000 MHz (Δ) -0.3229 dB 2.478 000 GHz 3.429 dBm 1.000 MHz (Δ) 0.3973 dB 2.479 000 GHz 3.106 dBm

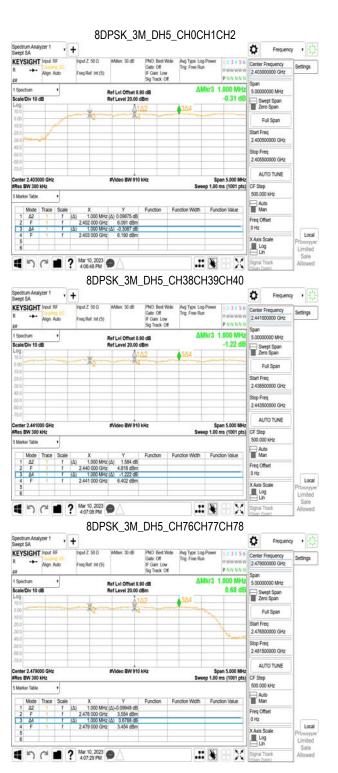
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■ 9 C ■ ? Mar 10, 2023 ●



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#### π/4DQPSK 2M DH5 CH0CH1CH2 Spectrum Analyzer 1 Swept SA Ö KEYSIGHT Input RF wt 7 50 0 Settings Scale/Div 10 dR -0.53 Swept Span Zero Span Full Span #Video BW 910 kHz Auto Man Function Width Function Value (A) 1.000 MHz (Δ)-0.07837 dB 1.000 MHz (Δ)-0.07837 2.402 000 GHz 6.042 d 1.000 MHz (Δ) -0.5335 2.403 000 GHz 5.963 d Freq Offse 0 Hz Local Log Lin 4 5 C 1 ? Mar 10, 2023 .:: ₹ π/4DQPSK\_2M\_DH5\_CH38CH39CH40 Frequency + 212 ٥ KEYSIGHT Input RE 2.441000000 GH 5.00000000 MHz Scale/Div 10 dR -0.13 Swept Span Zero Span Full Span 2.438500000 GH AUTO TUNE X Y 1,000 MHz (Δ) -0.2854 dB 2,440 000 GHz 6,751 dBm 1,000 MHz (Δ) -0.1340 dB 2,441 000 GHz 6,465 dBm Freq Offse 0 Hz X Axis Scal 1 5 C 1 ? Mar 15, 2023 .:: 🔖 π/4DQPSK\_2M\_DH5\_CH76CH77CH78 ٥ KEYSIGHT Input RF Ref Lvi Offset 0.90 dB Ref Level 20.00 dBm 5.00000000 MHz Scale/Div 10 dB Swept Spa Zero Span 2.476500000 GHz Stop Freq 2.481500000 GHz AUTO TUNE Auto Man (Δ) 1.000 MHz (ω<sub>2</sub>) 2.476 000 GHz 3.643 dom (Δ) 1.000 MHz (Δ) 0.09308 dB 4 2.479 000 GHz 3.829 dBm Freq Offse Local Log Lin



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■ ? Mar 10, 2023 ●



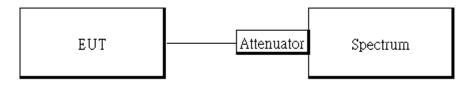
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#### 13 NUMBER OF HOPPING FREQUENCY

## **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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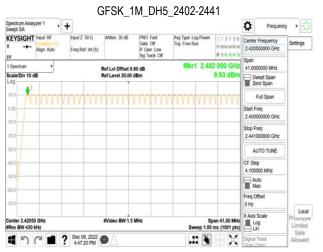
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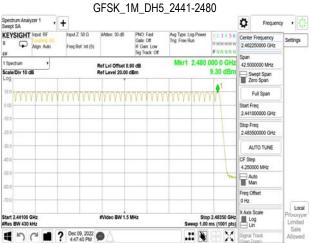
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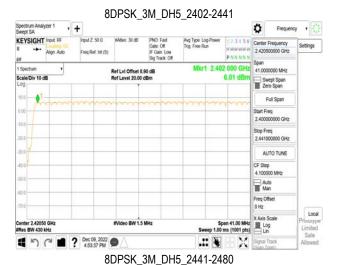


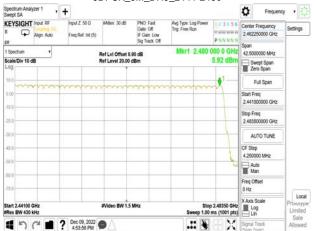
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#### ANT0









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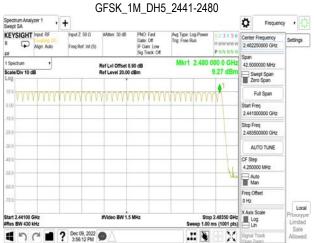
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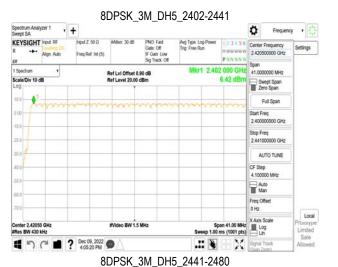


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# **BT ANT**









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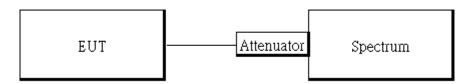
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# 14 TIME OF OCCUPANCY (DWELL TIME)

#### **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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# **Measurement Result**

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## GFSK (1Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)
	DH1	120.00	400ms
Mid	DH3	262.40	400ms
	DH5	307.20	400ms

#### π/4 DQPSK (2Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)
	2DH1	121.60	400ms
Mid	2DH3	260.80	400ms
	2DH5	307.20	400ms

#### 8-DPSK (3Mbps)

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

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# GFSK (1Mbps):

CH Mid	DH1 time slot	=	0.375 *	(1600/2/79)	*	31.6 =	120.00	(ms	)

(1600/4/79) \* DH3 time slot = 1.640 \* 31.6 = 262.40 (ms)

DH5 time slot = 2.880 \* (1600/6/79) \* 31.6 = 307.20 (ms)

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

CH Mid 2DH1 time slot =	0.380 *	(1600/2/79) *	31.6 =	121.60 (	(ms)	
-------------------------	---------	---------------	--------	----------	------	--

2DH3 time slot = 1.630 \* (1600/4/79) \* 31.6 = 260.80 (ms) 2DH5 time slot = 2.880 \* (1600/6/79) \* 31.6 = 307.20 (ms)

#### 8-DPSK (3Mbps):

CH Mid	3DH1 time slot =	0.385 *	(1600/2/79) *	31.6 =	123.20 (ms)

(1600/4/79) \* 31.6 = 262.40 (ms) 1.640 \* 3DH3 time slot =

(1600/6/79) \* 3DH5 time slot = 2.880 \* 31.6 = 307.20 (ms)

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

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# GFSK (1Mbps)

Or Ort (Timopo)			
Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)
	DH1	115.20	400ms
Mid	DH3	257.60	400ms
	DH5	307.20	400ms

## π/4 DQPSK (2Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)
	2DH1	118.40	400ms
Mid	2DH3	259.20	400ms
	2DH5	307.20	400ms

#### 8-DPSK (3Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)
	3DH1	118.40	400ms
Mid	3DH3	259.20	400ms
	3DH5	308.80	400ms

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# GFSK (1Mbps):

CH Mid	DH1 time slot	=	0.360 *	(1600/2/79)	*	31.6 =	115.20	(ms)	)
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(1600/4/79) \* DH3 time slot = 1.610 \* 31.6 = 257.60 (ms)

DH5 time slot = 2.880 \* (1600/6/79) \* 31.6 = 307.20 (ms)

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

CH Mid 2DH1 time slot = $0.370 * (1600/2/79) * 31.6 = 118.40$
---

(1600/4/79) \* 2DH3 time slot = 1.620 \*31.6 = 259.20 (ms) 2DH5 time slot = 2.880 \* (1600/6/79) \* 31.6 = 307.20 (ms)

#### 8-DPSK (3Mbps):

CH Mid	3DH1 time slot =	0.370 *	(1600/2/79) *	31.6 =	118.40 (ms)

(1600/4/79) \* 31.6 = 259.20 (ms) 1.620 \* 3DH3 time slot = (1600/6/79) \* 3DH5 time slot = 2.895 \* 31.6 = 308.80 (ms)

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

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Settings

Local

Frequency +

Swept Span Zero Span

Man

Freq Offse 0 Hz

X Axis Scale

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2.441000000 GHz

0.000000000 Hz

Swept Span Zerp Span

Full Span

2.441000000 GHz

AUTO TUNE

Auto Man

X Axis Scale Log

٥

2.441000000 GHz Stop Freq

2.441000000 GHz

AUTO TUNE

Local

Auto Man

Freq Offset 0 Hz

X Axis Sca Log Lin

Full Span

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#### ANT<sub>0</sub> Dwell Time π/4DQPSK 2M DH1 2441MHz Dwell Time\_GFSK\_1M\_DH1\_2441MHz KEYSIGHT Input RF nd 7 50 0 Frequency + ٥ KEYSIGHT Input RF Settings kr3 1.250 r PNNNNI 0.01 dB 1 Spectrum kr3 1.250 n Scale/Div 10 dB 0.01 dB Swept Span Zero Span Full Span #Video BW 3.0 MHz Res BW 1.0 MHz #Video BW 3.0 MHz Res BW 1.0 MHz 380.0 μs (Δ) 0.4527 dB 310.0 μs 6.555 dBm 1.250 ms (Δ0.008819 dB 310.0 μs 6.555 dBm (Δ) Auto Man Function Function Width Function Value (A) (Δ) X 75.0 μs (Δ) -0.2337 dB Freq Offse 0 Hz Local X Axis Scale P Dec 09, 2022 4:19:40 PM .:: ₹ Dwell Time\_π/4DQPSK\_2M\_DH3\_2441MHz .:: ¥ Spectrum Analyzer 1 Swept SA Dwell Time GFSK 1M DH3 2441MHz KEYSIGHT Input RF ٥ Frequency KEYSIGHT Input RI Settings Freq Ref: Int (S) Scale/Div 10 dB 0.00 dB 102 630 Ref Lvl Offset 0.90 dB Ref Level 20.00 dBm 0.00000000 Hz Scale/Div 10 dE -0.02 dB Swept Span Zero Span Full Span Start Freq 2.441000000 GHz Res BW 1.0 M AUTO TUNE Function Function Width Function Value X Y 1.630 ms (Δ) 0.6100 dB 2.180 ms 6.533 dBm 2.500 ms (Δ) 0.01476 dB 2.180 ms 6.533 dBm (Δ) (A) 1.640 ms (Δ) -0.3498 dB 1.650 ms 9.789 dBm (Δ) Freq Offse 0 Hz 2.500 ms (Δ)-0.01617 dE 1.650 ms 9.789 dBn (Δ) Local ■ 1 C ■ ? Dec 09, 2022 ● .:: 🦖 Dwell Time\_π/4DQPSK\_2M\_DH5\_2441MHz ■ 1 C ■ ? Dec 09, 2022 ● Dwell Time GFSK 1M DH5 2441MHz KEYSIGHT Input RF ٥ Freq Ref. Int (S) KEYSIGHT Input RF r3 3 750 r Freq Ref: Int (S) Ref Lvi Offset 0.90 dB Ref Level 20.00 dBm 0.00000000 Hz Ref Lvl Offset 0.90 dB Ref Level 20.00 dBm Swept Span VIA2 304 2.441000000 GHz Stop Freq 2.4410000 Sweep 15.0 ms (1001 p Res BW 1.0 MHz AUTO TUNE ep 15.0 ms (1001 Res BW 1.0 MHz Trace Scale t (Δ) 2.880 ms (Δ) 1.072 dB Auto Man 2.880 ms (Δ) -0.1933 dB 2.880 ms 9.973 dBm 3.750 ms (Δ0.007349 dB 2.880 ms 9.973 dBm (Δ) Freq Offse 0 Hz Local X Axis Sci 15 C 1 ? Nov 28, 2022 .:: ¥ ■ 9 P ■ ? Nov 28, 2022 .:: ¥

Dwell Time 8DPSK 3M DH1 2441MHz

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**BT ANT** 

Dwell Time\_GFSK\_1M\_DH1\_2441MHz

Dwell Time\_π/4DQPSK\_2M\_DH1\_2441MHz

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Dwell Time\_8DPSK\_3M\_DH1\_2441MHz

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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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