

ELECTROMAGNETIC EMISSIONS **COMPLIANCE REPORT**



Applicant:	Handheld Group AB Strandgatan 40, 531 60 Lidköping Sweden
Manufacturer:	Handheld Group AB Strandgatan 40, 531 60 Lidköping Sweden
Product Name:	NAUTIZ X81
Brand Name:	Handheld
Model No.:	NX81-RF2-A00, NX81-RF0-A00
Model Difference:	NX81-RF2-A00 has WWAN+WLAN, NX81-RF0-A00 only has WLAN
Report Number:	TERF2303000621E2
FCC ID	YY3-142481
IC:	11695A-142481
Date of EUT Received:	March 16, 2023
Date of Test:	March 17, 2023 \sim April 26, 2023
Issue Date:	May 15, 2023

Vit. Pei

Approved By

Vito Pei

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	
TERF2303000621E2	00	Original.	May 15, 2023	Yami Kuo		

Note:

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

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GENERAL INFORMATION 1

1.1 **Product Description**

Product Name:	NAUTIZ X81
Brand Name:	Handheld
Model No.:	NX81-RF2-A00, NX81-RF0-A00
Model Difference:	NX81-RF2-A00 has WWAN+WLAN, NX81-RF0-A00 only has WLAN
Hardware Version:	R0.3
Firmware Version:	v001.06.00
EUT Series No.:	TE_SP_20230302243
Power Supply:	5 / 9 / 12 / 15 / 20Vdc from AC Adapter or 3.6Vdc from Lithium-ion Rechargeable Battery
Test Software (Name/Version)	default

1.2 **RF** Specification

Radio Technology:	BT BR+EDR
Channel number:	79 channels
Modulation type:	GFSK + π/4DQPSK + 8DPSK
Transmit Power:	7.21 dBm
Frequency Range:	2.402GHz – 2.480GHz
Dwell Time:	\leq 0.4s

1.3 Antenna Designation

Antenna	Freq.	Peak Antenna
Type	(MHz)	Gain (dBi)
PRINT	2402 – 2480	2.23

Note:

1. Antenna information is provided by the applicant.

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Test Methodology of Applied Standards 1.4

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. 404 Min Kuran Deed, Now Teinei	Conduction 1		
	No.134, Wu Kung Road, New Taipei	Conducted 1	TM0007	
	Industrial Park, Wuku District, New	Conducted 2	TW0027	TW3702
	Taipei City, Taiwan.	Conducted 3		
		Conducted 4		
		Conducted 5		
SGS Taiwan Ltd.		Conducted 6		
Central RF Lab.		Conduction C		
(TAF code 3702)		SAC C	-	
		SAC D		
		SAC G		
	No 2 Kaji tot Dd. Cuishan District	Conducted A		
	No.2, Keji 1st Rd., Guishan District,	Conducted B	TW0028	
	Taoyuan City, Taiwan 333	Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
		Conducted G		

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

1.6 **Special Accessories**

There is no special accessory used while test was conducted.

1.7 **Equipment Modifications**

There was no modification incorporated into the EUT.

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SYSTEM TEST CONFIGURATION 2

2.1 **EUT Configuration**

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

2.2 **EUT Exercise**

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

Test Procedure 2.3

2.3.1 **Conducted Emissions**

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

2.3.2 **Conducted Test (RF)**

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

2.3.3 Radiated Emissions

The EUT is a placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

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2.4 Measurement Results Explanation Example

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

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

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

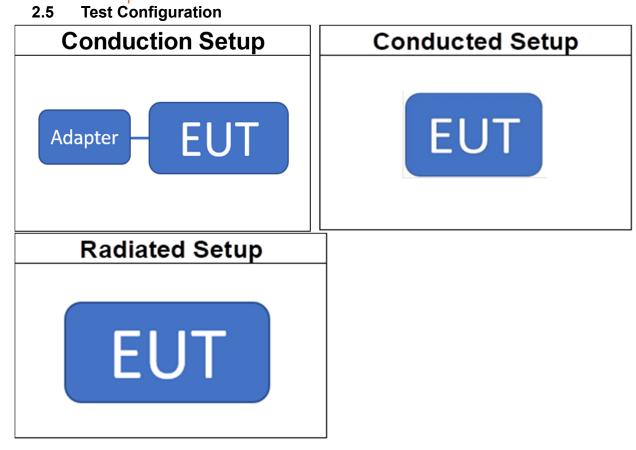
2.4.2 For all conducted test items:

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

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2.6 Control Unit(s)

AC Power-Line Conducted Emission Test Site: Conduction C						
EQUIPMENT TYPE MFR MODEL NUMBER SERIAL NUMBER LAST CAL. CAL DUE.						
Adapter	CULLPOWER	TYPE-C45IC	N/A	N.C.R	N.C.R	
USB Cable Sheng Lintai 051-010003 N/A N.C.R N.C.R						

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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 Emis- sion	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 4

Operated in 2400 ~ 2483.5MHz Band 4.1

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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4.2 The Worst Test Modes and Channel Details

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

ANTNNA PORT CONDUCTED TEST								
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	PACKET TYPE				
Peak Output 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	tion	•				
Bluetooth	0 to 78	0,1,2,38,39,40,76, 77,78	GFSK π/4-DQPSK 8-DPSK	DH5 2DH5 3DH5				
Number of Hopping Frequency, Hopping Band edge								
Bluetooth	0 to 78	0 to 78	GFSK/8-DPSK	DH5/3DH5				
	Tim	e of Occupancy(Dw	vell time)	•				
			GFSK	DH1/DH3/DH5				
Bluetooth	0 to 78	39	π/4-DQPSK	2DH1/2DH3/2DH5				
			8-DPSK	3DH1/3DH3/3DH5				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	PACKET TYPE				
	RADIATE	EMISSION TEST (BELOW 1 GHz)					
Bluetooth	0 to 78	39	GFSK	DH5				
	RADIATEI	DEMISSION TEST (ABOVE 1 GHz)					
Bluetooth	0 to 78	0,39,78	GFSK/8-DPSK	DH5/3DH5				
Note: The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for channel Low, Mid and High, the worst case position was reported.								

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MEASUREMENT UNCERTAINTY 5

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		
Polarization: Horizontal	+/-	4.37	dB	1GHz - 18GHz		
	+/-	4.21	dB	18GHz - 40GHz		

Note:

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

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MEASUREMENT EQUIPMENT USED 6

6.1 **Emission from AC power line**

	AC Power-Line Conducted Emission Test Site: Conduction C							
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.			
LISN	SCHWARZBECK Mess-	NSLK8127	973	04/20/2023	04/19/2024			
EMI Test Receiver	R&S	ESCI	101342	04/25/2023	04/24/2024			
Coaxial Cable	EC Lab	RF-HY-CAB-250	RF-HY-CAB-250-01	03/27/2023	03/26/2024			
Pulse Limiter	EC Lab	VTSD 9561F-N	485	03/27/2023	03/26/2024			
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R			

6.2 **Conducted Measurement**

	Conducted Emission Test Site: Conducted G							
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.			
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071573	05/16/2022	05/15/2023			
Power Meter	Anritsu	ML2496A	2138005	09/23/2022	09/22/2023			
Power Sensor	Anritsu	MA2411B	1911395	09/23/2022	09/22/2023			
Power Sensor	Anritsu	MA2411B	1911396	09/23/2022	09/22/2023			
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R			
Attenuator	Woken	WATT-218FS-10	RF18	11/16/2022	11/15/2023			
Attenuator	Woken	WATT-218FS-10	RF19	11/16/2022	11/15/2023			
DC Block	PASTERNACK	PE8210	RF157	11/16/2022	11/15/2023			

Radiated Measurement 6.3

	Radiated Emission Test Site: SAC G							
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.			
Broadband	SCHWARZBECK	VULB 9168	1206	01/17/2023	01/16/2024			
Horn Antenna	Schwarzbeck	BBHA9170	184	12/15/2022	12/14/2023			
Horn Antenna	RF SPIN	DRH18-E	210105A18E	04/08/2022	05/07/2023			
Loop Antenna	ETS.LINDGREN	6502	143303	05/06/2022	05/07/2023			
3m Site NSA	SGS	966 chamber G	N/A	03/30/2023	03/29/2024			
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/13/2022	07/14/2023			
Pre-Amplifier	EMC Instruments	EMC18405SEE	980881	10/25/2022	10/24/2023			
Pre-Amplifier	EMC Instruments	EMC330N	980781	03/15/2023	03/14/2024			
Pre-Amplifier	EMC Instruments	EMC118A45SE	980815	03/15/2023	03/14/2024			
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R			
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM-8000-5000-2000	210216 \ 210217 \ 210218	03/15/2023	03/14/2024			
Coaxial Cable	EMC Instruments	EMC104-SM-SM-8000-5000-5000	210219 \ 210220 \ 210221	03/15/2023	03/14/2024			
Coaxial Cable	EMC Instruments	EMC105-NM-NM-5000-15000	210224 ` 210306	03/15/2023	03/14/2024			

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					

Note

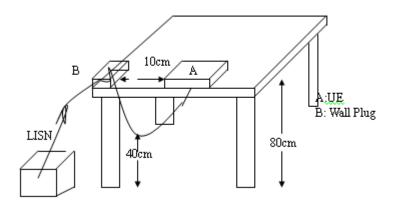
1. The lower limit shall apply at the transition frequencies

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



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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

Report Number	:TERF23	03000621E2	Test Site	:Condu	ction C	
Test Mode	:BT		Test Date	e :2023-0	4-26	
Power	:120V60H	Ηz	Temp./H	umi. : 23.4 °C	/64%	
Probe	:L1		Engineer	:Temo (Chen	
80 Level (d	dBuV)					
70.0						
60.0						
50.0						
40.0	4					
30.0	My way					
20.0	New York Mary	many many	Male www.	warman	a a a a a a a a a a a a a a a a a a a	
10.0	_	W Y''	1.4MMA		han	
0.15	0.	. 1		5 10	20 30	
0.15	0.	Freque	2 ency (MHz)	5 10	20 30	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz F	Mode PK/QP/AV	Reading Level dBμV	dB	FS dBµV	dBµV	dB
			dD		αDμ γ	
0.169	Peak	35.18	10.27	45.45	65.03	-19.58
0.193	Peak	33.35	10.27	43.62	63.89	-20.26
0.229	Peak	27.33	10.28	37.61	62.48	-24.87
0.260	Peak	24.43	10.28	34.71	61.42	-26.71
0.286	Peak	22.58	10.29	32.87	60.63	-27.77
13.127	Peak	9.71	10.74	20.45	60.00	-39.55

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Report Number	:TERF230	03000621E2	Test Site	:Conduc	ction C	
Test Mode	:BT		Test Date	:2023-04	4-26	
Power	:120V60H	łz	Temp./Hur	mi. : 23.4 ℃	/64%	
Probe	:N		Engineer	:Temo C	hen	
80 Level (d	lBuV)					
70.0						
60.0						
50.0						
40.0	4_					
30.0	MAN NA					
20.0	1	Wall	Myoruma 16	6 Manimut	<u>~</u>	
10.0		The Avy Mar 1997	man anne Happe	wert	m har	
0.15	0.4	5 1 Freque	2 ency (MHz)	5 10	20 30	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
·	Mode	Reading Level		FS		·
MHz F	PK/QP/AV	dBμV	dB	dBµV	dBµV	dB
0.169	Peak	35.85	10.28	46.12	65.03	-18.91
0.198	Peak	31.02	10.27	41.29	63.71	-22.42
0.232	Peak	27.28	10.28	37.55	62.39	-24.84
0.260	Peak	24.82	10.28	35.10	61.42	-26.32
0.286	Peak	22.66	10.28	32.94	60.63	-27.69
12.318	Peak	9.62	10.68	20.30	60.00	-39.70

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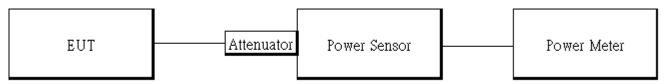
8 PEAK OUTPUT POWER MEASUREMENT

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.
- 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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4.827

5.031

1000

1000



Peak & Average Power Measurement Result 8.4

1M BR mode (Peak):

СН	Freq. (MHz)	Power set	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	9	6.63	4.603	1000
Mid	2441	9	7.05	5.070	1000
High	2480	9	7.21	5.260	1000

2M EDR mode (Peak):

СН	Freq. (MHz)	Power set	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	9	6.04	4.018	125
Mid	2441	9	6.49	4.457	125
High	2480	9	6.65	4.624	125

3M EDR mode (Peak):

СН	Freq. (MHz)	Power set	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	9	6.09	4.064	125
Mid	2441	9	6.54	4.508	125
High	2480	9	6.70	4.677	125

1M BR mode (Average): Max. Avg.Output Output Power Limit include Freq. CH Power (MHz) set tune up (mW) (mW) tolerance Power (dBm) 2402 1000 Low 9 6.41 4.372

6.84

7.02

9

9

2M EDR mode (Average):

Mid

High

2441

2480

СН	Freq. (MHz)	Power set	Max. Avg.Output include tune up tolerance Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	9	3.61	2.294	125
Mid	2441	9	4.13	2.586	125
High	2480	9	4.27	2.671	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	9	3.66	2.321	125
Mid	2441	9	4.21	2.634	125
High	2480	9	4.34	2.714	125

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

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8.5 **EIRP Measurement Result**

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	9	6.41	2.23	7.305	4000
Mid	2441	9	6.84	2.23	8.066	4000
High	2480	9	7.02	2.23	8.407	4000

2M EDR mode EIRP

			Max.			
			Avg.Output			
Channel	Frequency	Power	include	Antenna	EIRP	Limit
Channel	(MHz)	set	tune up	Gain (dBi)	(mW)	(mW)
			tolerance			
			Power (dBm)			
Low	2402	9	3.61	2.23	3.834	4000
Mid	2441	9	4.13	2.23	4.322	4000
High	2480	9	4.27	2.23	4.463	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	9	3.66	2.23	3.878	4000
Mid	2441	9	4.21	2.23	4.402	4000
High	2480	9	4.34	2.23	4.536	4000

* Note: EIRP = Average Power + Gain

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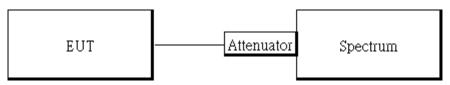


9 EMISSION BANDWIDTH MEASUREMENT

9.1 Standard Applicable

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

9.2 Test Setup



9.3 Measurement Procedure

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows ANSI C63.10:2013.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 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
- 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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20dB Bandwidth 9.4

GFSK

СН	20 dB BW	2/3 BW		
•	(MHz)	(MHz)		
Low	0.8497	0.57		
Mid	0.8507	0.57		
High	0.8516	0.57		

π/4-DQPSK

СН	20 dB BW (MHz)	2/3 BW (MHz)
Low	1.273	0.85
Mid	1.274	0.85
High	1.273	0.85

8-DPSK

СН	20 dB BW	2/3 BW
СП	(MHz)	(MHz)
Low	1.271	0.85
Mid	1.272	0.85
High	1.272	0.85

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99% Bandwidth 9.5

GFSK

СН	99% BW
СП	(MHz)
Low	0.74427
Mid	0.74552
High	0.74568
	/

π/4-DQPSK

СН	99% BW
СП	(MHz)
Low	1.1485
Mid	1.1495
High	1.1503

8-DPSK

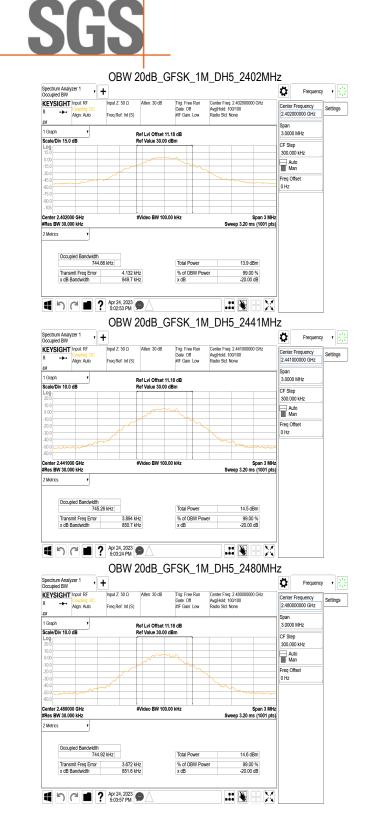
СН	99% BW
СП	(MHz) 1.1534 1.1548
Low	1.1534
Mid	1.1548
High	1.1539

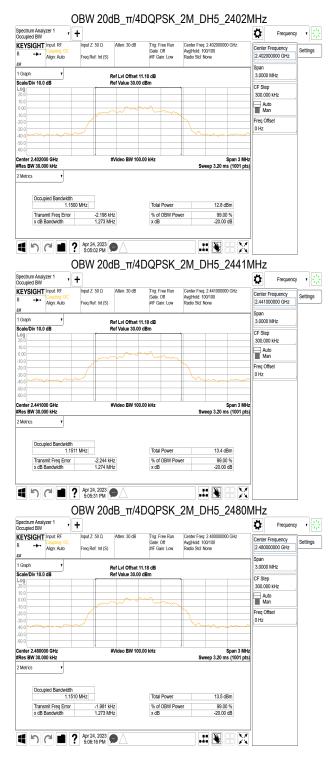
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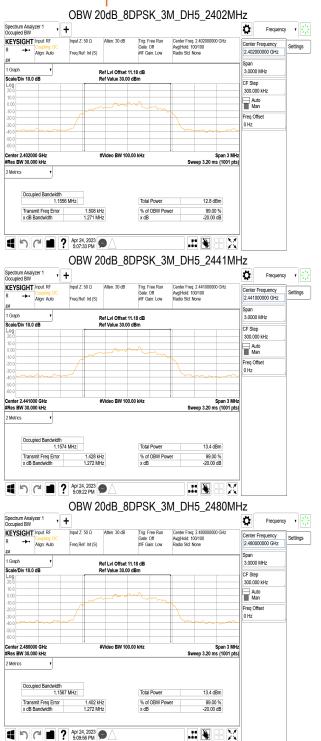
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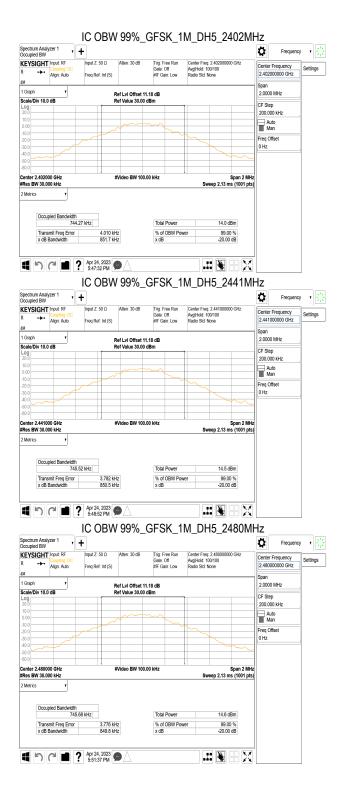
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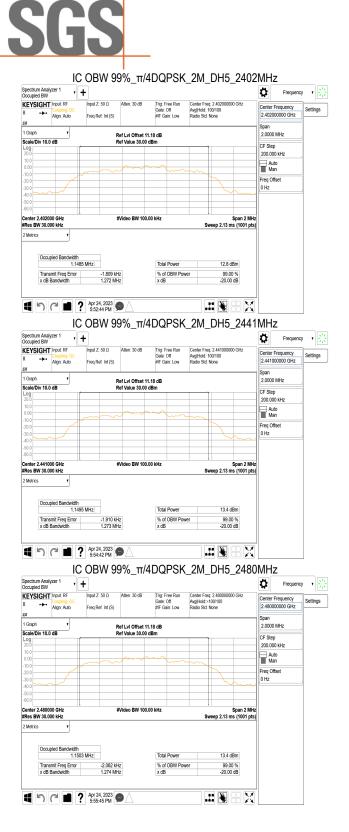
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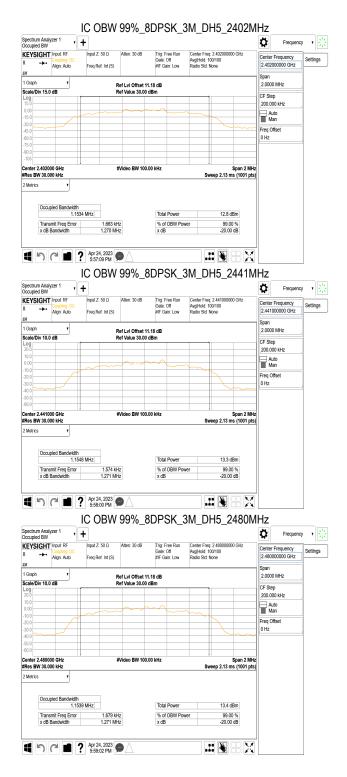
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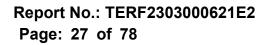
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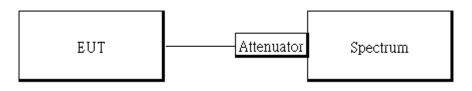


10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

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.
- 4. Set center frequency of spectrum analyzer = operating frequency.
- 5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Sweep = auto
- 6. Mark Peak, below 2.4GHz and above 2.4835GHz and record the max. level.
- 7. Repeat above procedures until all frequency measured were complete.

10.3.2 Conducted Spurious Emission:

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

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10.4 Measurement Result See next page for test plots.

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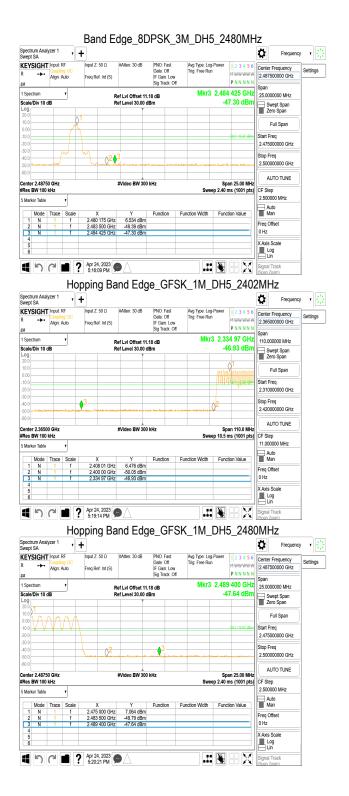
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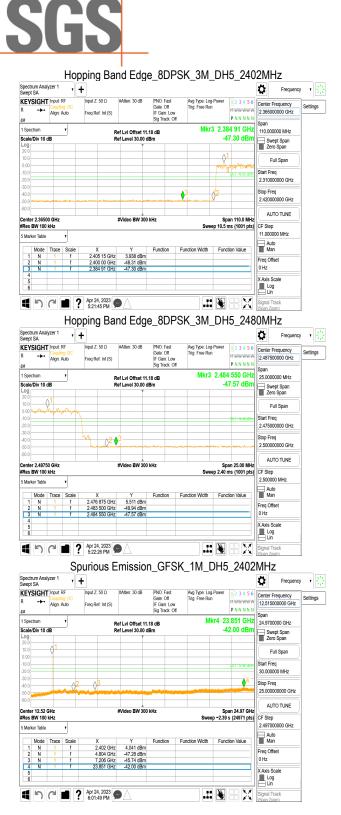
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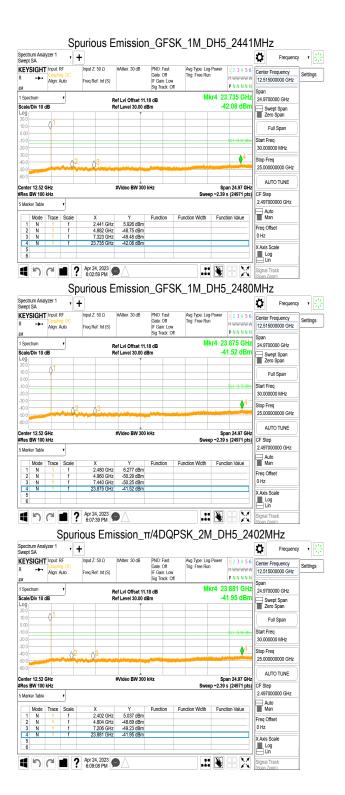
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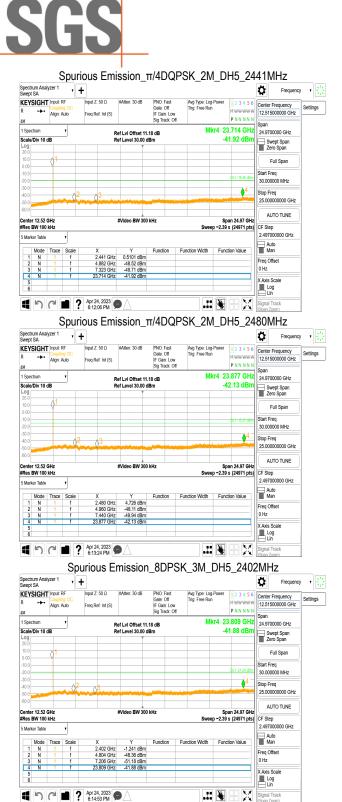
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Spurious Emission 8DPSK 3M DH5 2441MHz Spectrum Analyzer 1 Swept SA Frequency v Ö · + KEYSIGHT Input: RF wt 7:50.0 Avg Type: Log-Po Trig: Free Purp PNO: Fast Gate: Off Center Fr Settings 12.515000000 GH + req Ref: Int (S PNNNN Mkr4 23.933 GHz 24.9700000 GHz 1 Spectrun Ref Lvi Offset 11.18 dB Ref Level 30.00 dBm -41.26 dBn Scale/Div 10 dE Swept Span Zero Span Full Span Start Freq 30.000000 MHz ♦4 Stop Freq 25.000000 AUTO TUNI Center 12.52 GHz #Res BW 100 kHz #Video BW 300 kHz Span 24.97 GHz Sweep ~2.39 s (24971 pts) CF Step 2.497000000 GHz 5 Marker Ta Auto Man Mode Trace Sca Function Width Function Value Function 1.254 dB Freq Offse 0 Hz X Axis Scale Log Lin 4 う ペ 目 ? Apr 24, 2023 の 5:15:56 PM # 😽 Х Spurious Emission_8DPSK_3M_DH5_2480MHz Spectrum Analyzer 1 Swept SA Ö Frequency v 1+ KEYSIGHT Input: RF PNO: Fast Gate: Off IF Gain: Lo out 7:50.0 30 dB Avg Type: Log-Power Trig: Free Run Center Frequency Settings 12.515000000 GHz Alian: Auto rea Ref: Int (S) PNNNN Mkr4 24.161 GHz Ref Lvi Offset 11.18 dB Ref Level 30.00 dBm 24.9700000 GHz Scale/Div 10 dE -42.30 dBr Swept Span Zero Span Full Span Start Fred 30.000000 MHz ٥ Stop Free 25,000 AUTO TUNE Center 12.52 GHz #Res BW 100 kHz Span 24.97 GHz Sweep ~2.39 s (24971 pts) CF Step 2.497000000 GHz 5 Marker Table Auto Man Function Width Function Value Function 2.480 GHz 4.960 GHz 6.138 dBm -50.06 dBm Freq Offse 0 Hz 4 X Axis Scale Log Lin 4 う (* 目 ? Apr 24, 2023 の 5:16:47 PM .: 🔖 X

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11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

Standard Applicable 11.1

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.

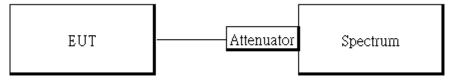
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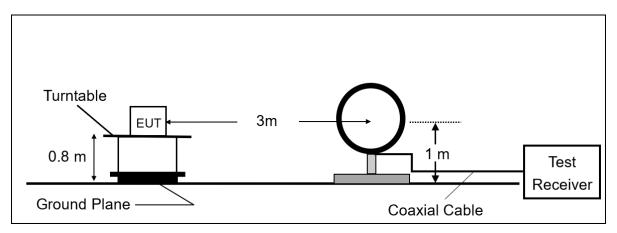
Test Setup 11.2

11.2.1 **Duty Cycle Correction Factor**

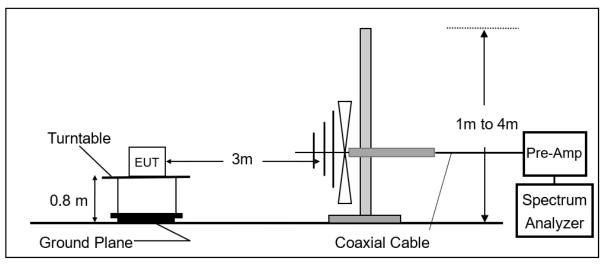


11.2.2 **Radiated Emission**

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



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



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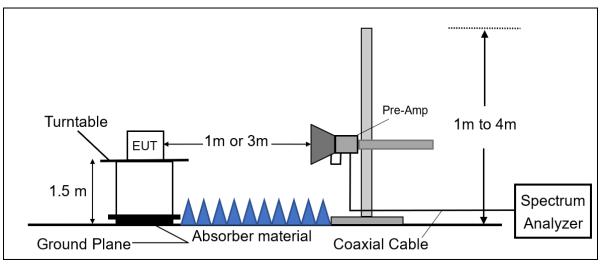
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(C) Radiated Emission Test Set-Up, Frequency Above 1 GHz.



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. 1.
- 2. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
- 3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
- 4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
- 5. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz.
- 6. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.

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- 7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Maximum Emission Measurements at frequency above 1 GHz.
- 8. According to C63.10:2013 Section 7.5 Procedure for determining the average value of pulsed emissions with duty cycle correction factor 20 log (Ton/100ms).
- 9. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.
- 10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 12. Repeat above procedures until all default test channel measured were complete.

11.4 Field Strength Calculation

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

FS = RA + AF + CL – AG

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

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

Actual FS(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB) Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Average value($dB\mu V/m$)=Peak Actual FS($dB\mu V/m$)+ Duty Cycle Correction Factor(dB) Duty Cycle Correction Factor(dB) = 20 log ($T_{on}/100 \text{ ms}$)

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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11.6 **Measurement Result:**

11.6.1 **Duty Cycle Correction Factor**

BR

Time ON of 100ms:	5.800	ms	
Duty Cycle=5.8ms / 100ms=	0.058		
Duty Cycle correction factor=20) LOG 0.058=	-24.73	dB
EDR			
Time ON of 100ms:	0 700		
	8.700	ms	
Duty Cycle=8.7ms / 100ms=	8.700 0.087	ms	

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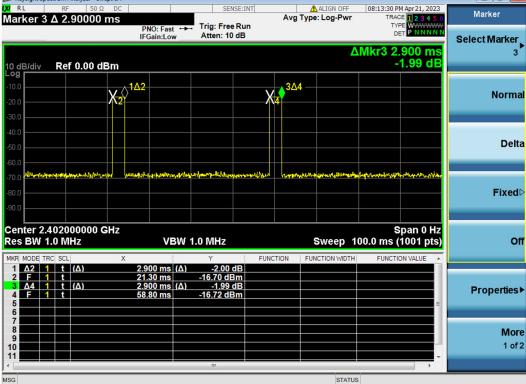
Marker



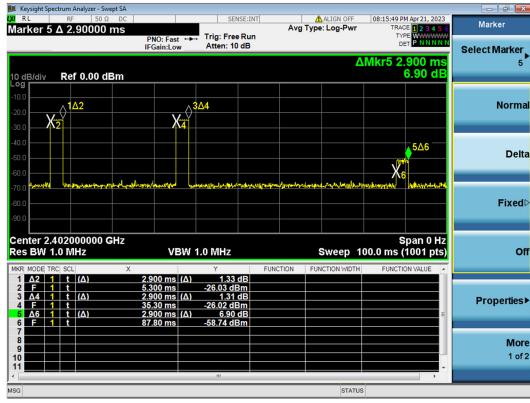
11.6.2 **Duty Cycle test plot**

BR

📕 Keysight Spectrum Analyzer - Swept SA R ALIGN OFF Avg Type: Log-Pwr Marker 3 Δ 2.90000 ms Trig: Free Run PNO: Fast IFGain:Low Atten: 10 dB



EDR



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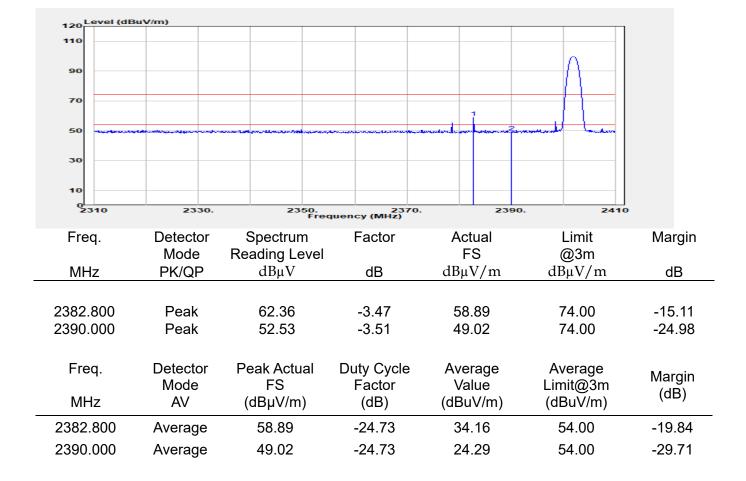
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11.6.3 Bandedge Result

Report Number	:TERF2303000621E2
Operation Mode	:BR
Test Frequency	:2402 MHz
Test Mode	:Bandedge
EUT Pol	:H Plane

Test Site	:SAC G Chamber
Test Date	:2023-04-21
Temp./Humi.	:24.3°C / 63%
Antenna Pol.	:Vertical
Engineer	:Temo Chen



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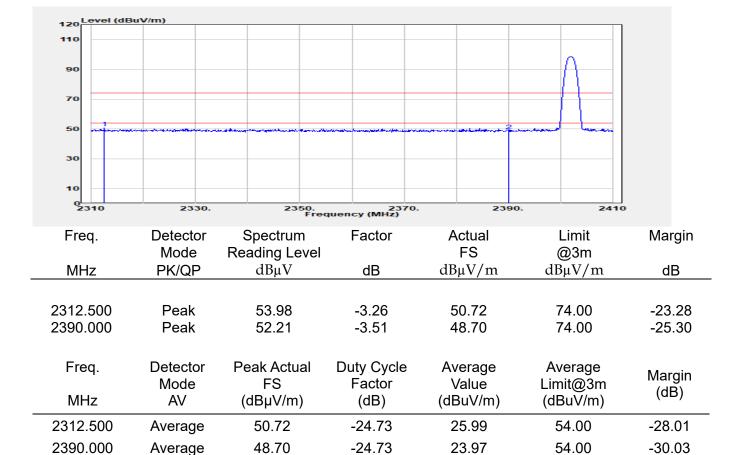
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Report Number	:TERF2303000621E2
Operation Mode	:BR
Test Frequency	:2402 MHz
Test Mode	:Bandedge
EUT Pol	:H Plane

Test Site	:SAC G Chamber
Test Date	:2023-04-21
Temp./Humi.	:24.3°C / 63%
Antenna Pol.	:Horizontal
Engineer	:Temo Chen



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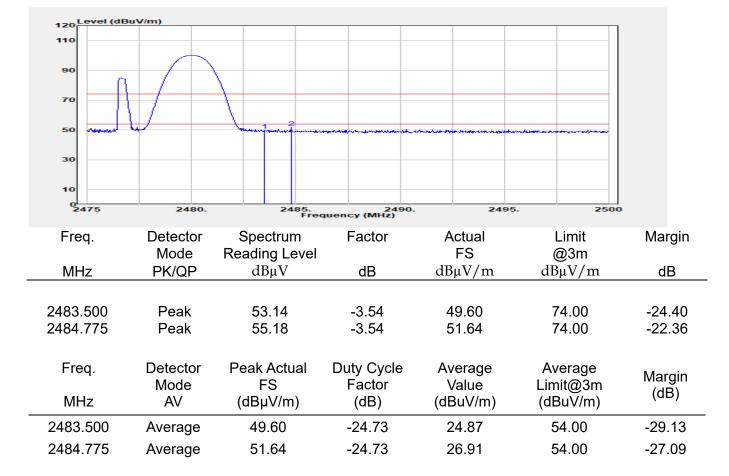
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Report Number	:TERF2303000621E2
Operation Mode	:BR
Test Frequency	:2480 MHz
Test Mode	:Bandedge
EUT Pol	:H Plane

Test Site	:SAC G Chamber
Test Date	:2023-04-21
Temp./Humi.	:24.3°C / 63%
Antenna Pol.	:Vertical
Engineer	:Temo Chen



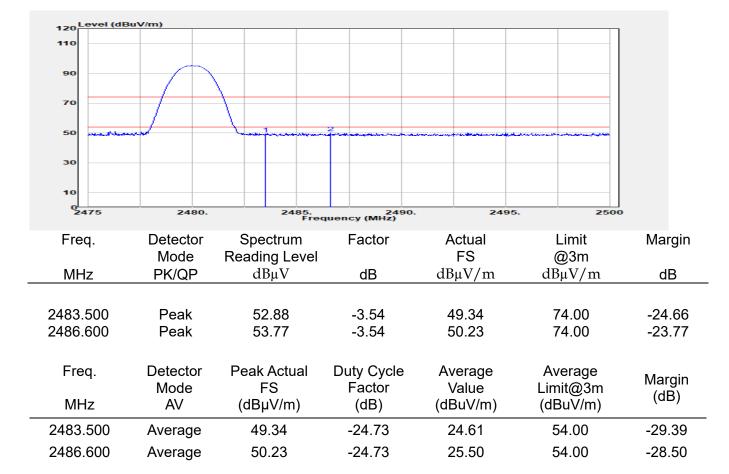
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Report Number	:TERF2303000621E2
Operation Mode	:BR
Test Frequency	:2480 MHz
Test Mode	:Bandedge
EUT Pol	:H Plane

Test Site :SAC G Chamber Test Date :2023-04-21 Temp./Humi. :24.3°C / 63% Antenna Pol. :Horizontal :Temo Chen Engineer



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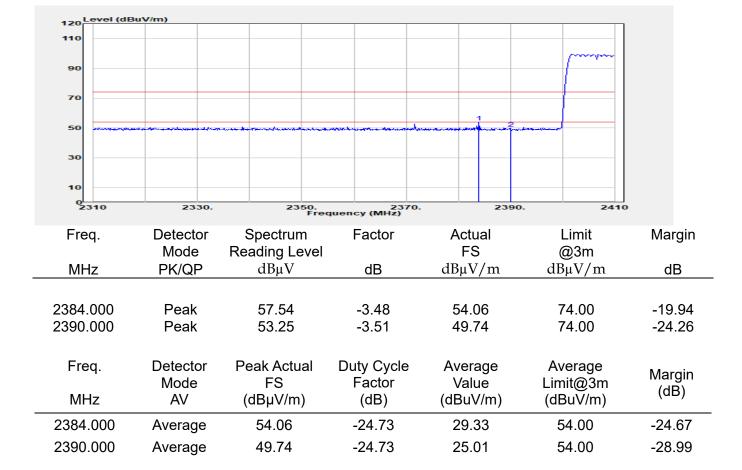
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Report Number	:TERF2303000621E2
Operation Mode	:BR Hopping
Test Frequency	:2402 MHz
Test Mode	:Bandedge
EUT Pol	:H Plane

Test Site	:SAC G Chamber
Test Date	:2023-04-21
Temp./Humi.	:24.3°C / 63%
Antenna Pol.	:Vertical
Engineer	:Temo Chen



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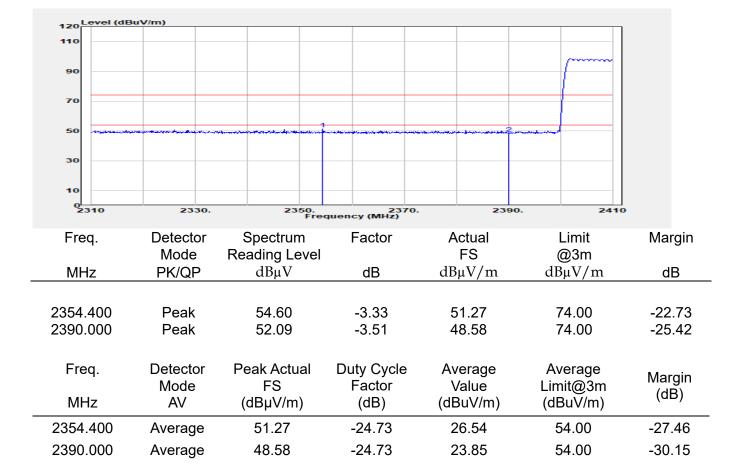
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Report Number	:TERF2303000621E2
Operation Mode	:BR Hopping
Test Frequency	:2402 MHz
Test Mode	:Bandedge
EUT Pol	:H Plane

Test Site	:SAC G Chamber
Test Date	:2023-04-21
Temp./Humi.	:24.3°C / 63%
Antenna Pol.	:Horizontal
Engineer	:Temo Chen



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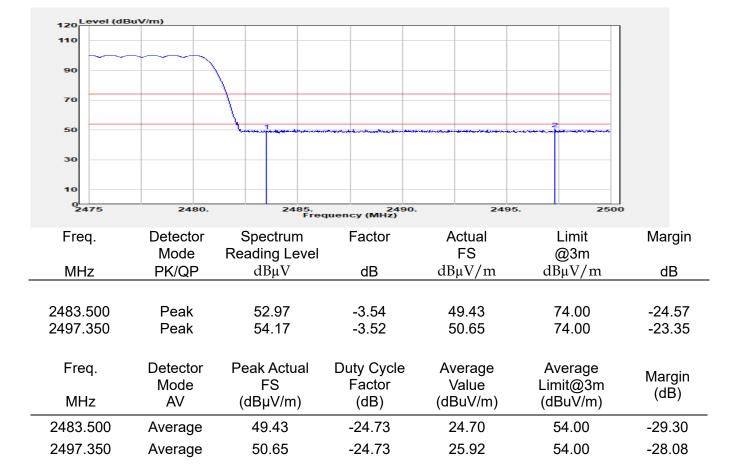
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Report Number	:TERF2303000621E2
Operation Mode	:BR Hopping
Test Frequency	:2480 MHz
Test Mode	:Bandedge
EUT Pol	:H Plane

Test Site	:SAC G Chamber
Test Date	:2023-04-21
Temp./Humi.	:24.3°C / 63%
Antenna Pol.	:Vertical
Engineer	:Temo Chen



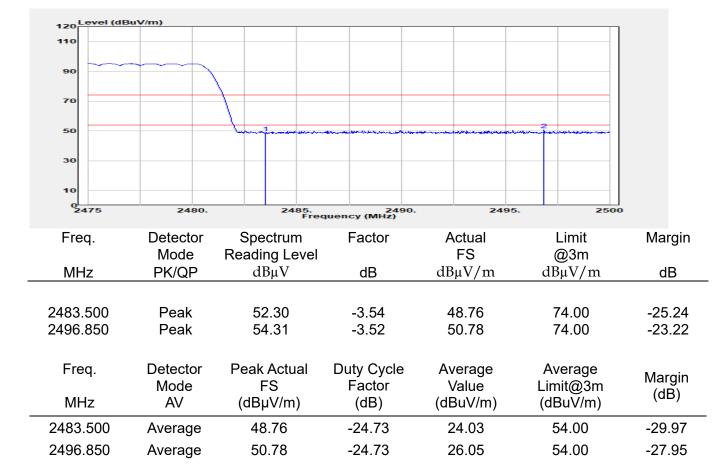
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EUT Pol	:H Plane

Test Site	:SAC G Chamber
Test Date	:2023-04-21
Temp./Humi.	:24.3°C / 63%
Antenna Pol.	:Horizontal
Engineer	:Temo Chen



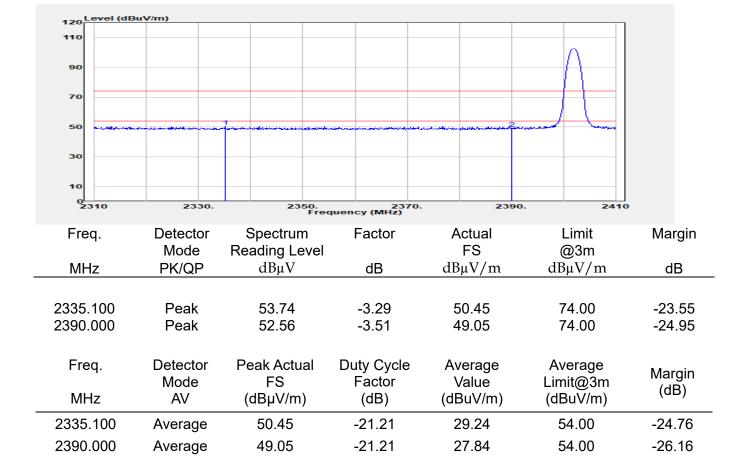
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Report Number	:TERF2303000621E2
Operation Mode	:EDR 3M
Test Frequency	:2402 MHz
Test Mode	:Bandedge
EUT Pol	:H Plane

Test Site	:SAC G Chamber
Test Date	:2023-04-21
Temp./Humi.	:24.3°C / 63%
Antenna Pol.	:Vertical
Engineer	:Temo Chen



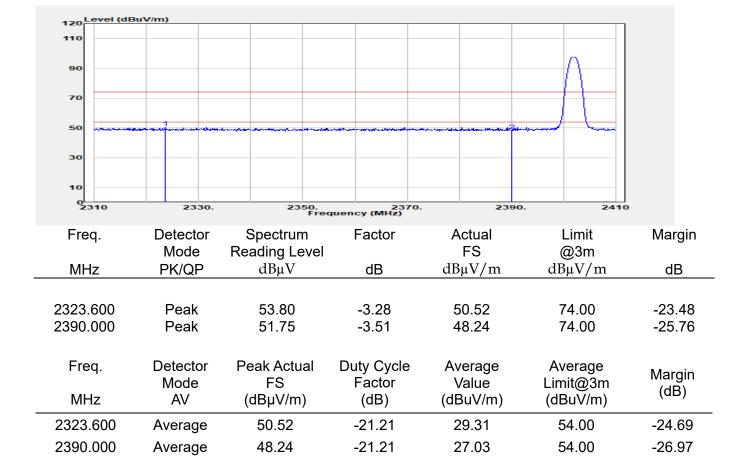
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Operation Mode	:EDR 3M
Test Frequency	:2402 MHz
Test Mode	:Bandedge
EUT Pol	:H Plane

Test Site	:SAC G Chamber
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Temp./Humi.	:24.3°C / 63%
Antenna Pol.	:Horizontal
Engineer	:Temo Chen



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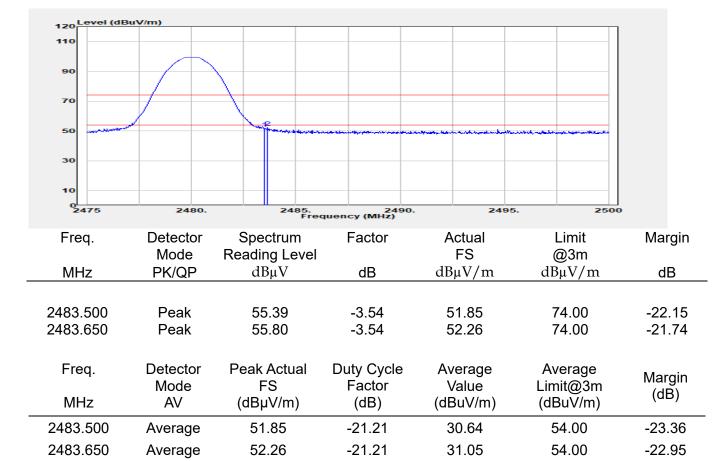
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Report Number	:TERF2303000621E2
Operation Mode	:EDR 3M
Test Frequency	:2480 MHz
Test Mode	:Bandedge
EUT Pol	:H Plane

Test Site	:SAC G Chamber
Test Date	:2023-04-21
Temp./Humi.	:24.3°C / 63%
Antenna Pol.	:Vertical
Engineer	:Temo Chen



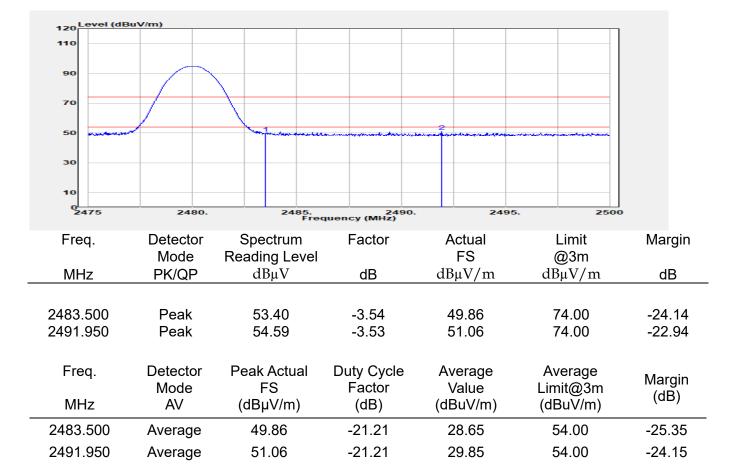
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Report Number	:TERF2303000621E2
Operation Mode	:EDR 3M
Test Frequency	:2480 MHz
Test Mode	:Bandedge
EUT Pol	:H Plane

Test Site :SAC G Chamber Test Date :2023-04-21 Temp./Humi. :24.3°C / 63% Antenna Pol. :Horizontal :Temo Chen Engineer



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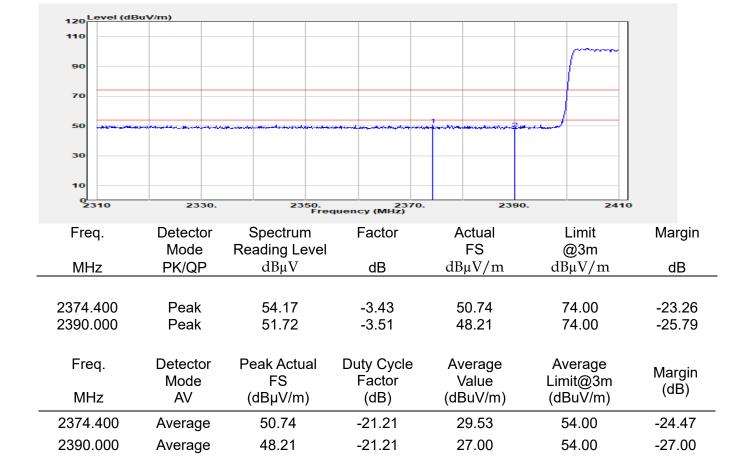
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Repor	t Number	:TERF2303000621E2
Opera	ation Mode	:EDR 3M Hopping
Test F	requency	:2402 MHz
Test N	/lode	:Bandedge
EUT F	Pol	:H Plane

Test Site	:SAC G Chamber
Test Date	:2023-04-21
Temp./Humi.	:24.3°C / 63%
Antenna Pol.	:Vertical
Engineer	:Temo Chen



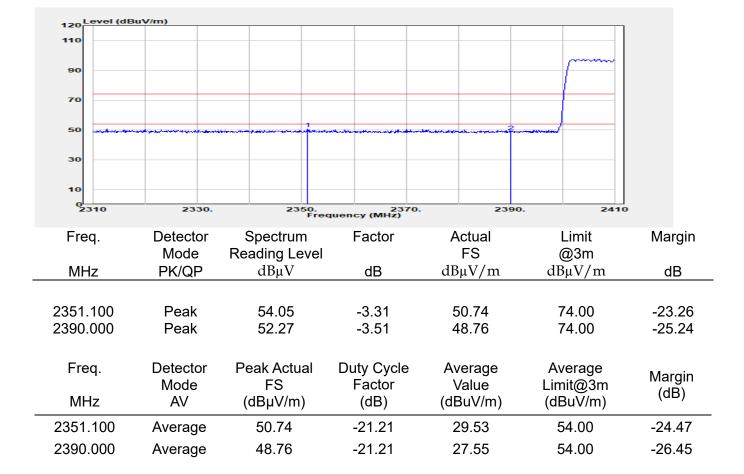
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Report Number	:TERF2303000621E2
Operation Mode	:EDR 3M Hopping
Test Frequency	:2402 MHz
Test Mode	:Bandedge
EUT Pol	:H Plane

Test Site	:SAC G Chamber
Test Date	:2023-04-21
Temp./Humi.	:24.3°C / 63%
Antenna Pol.	:Horizontal
Engineer	:Temo Chen



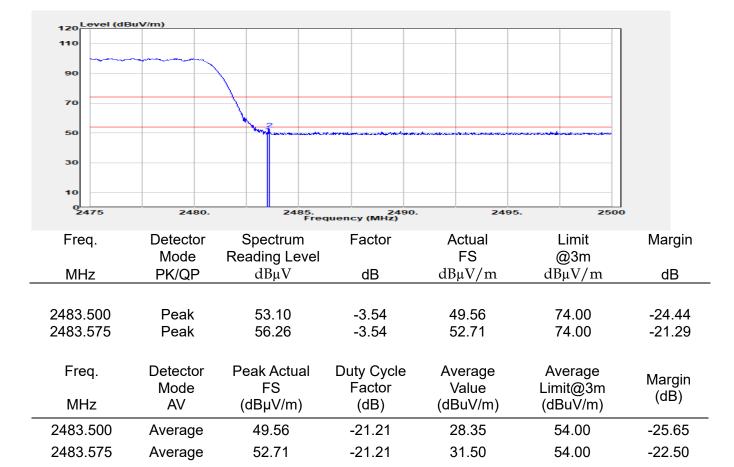
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Report Number	:TERF2303000621E2
Operation Mode	:EDR 3M Hopping
Test Frequency	:2480 MHz
Test Mode	:Bandedge
EUT Pol	:H Plane

Test Site	:SAC G Chamber
Test Date	:2023-04-21
Temp./Humi.	:24.3°C / 63%
Antenna Pol.	:Vertical
Engineer	:Temo Chen



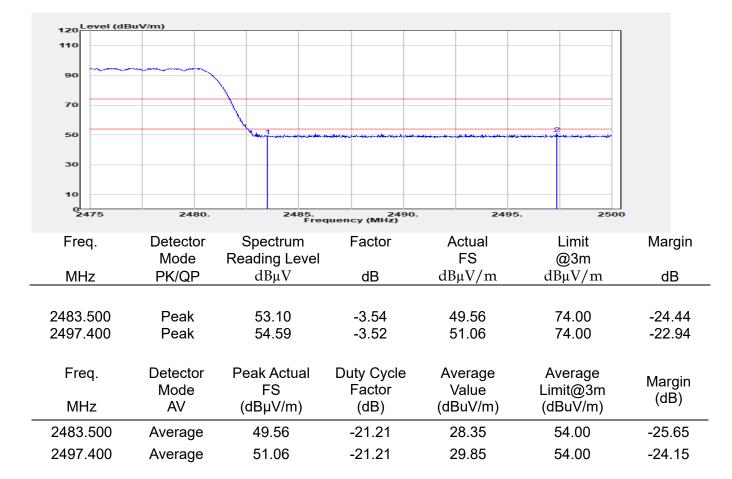
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Report Number	:TERF2303000621E2
Operation Mode	:EDR 3M Hopping
Test Frequency	:2480 MHz
Test Mode	:Bandedge
EUT Pol	:H Plane

Test Site :SAC G Chamber Test Date :2023-04-21 Temp./Humi. :24.3°C / 63% Antenna Pol. :Horizontal :Temo Chen Engineer



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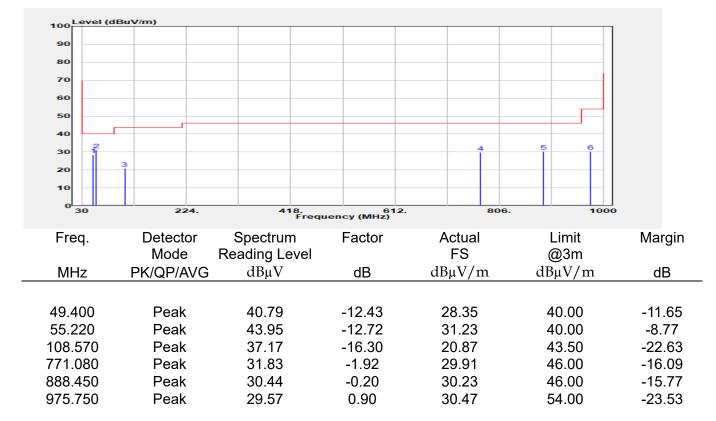
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Report No.: TERF2303000621E2 Page: 54 of 78



11.6.4 Radiated Spurious Emission

Report Number	:TERF2303000621E2	Test Site	:SAC G Chamber
Operation Mode	:BR	Test Date	:2023-04-24
Test Frequency	:2441 MHz	Temp./Humi.	:21.3°C / 62%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Temo Chen



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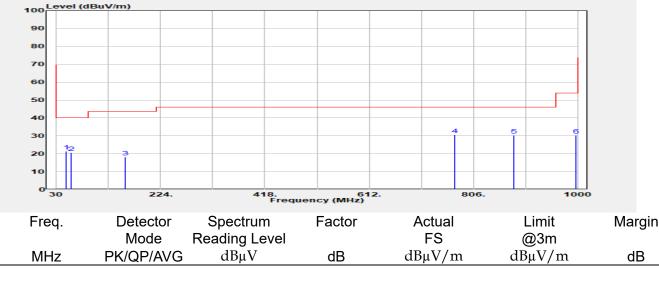
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Report Number	:TERF2303000621E2
Operation Mode	:BR
Test Frequency	:2441 MHz
Test Mode	:Tx
EUT Pol	:H Plane

Test Site	:SAC G Chamber
Test Date	:2023-04-24
Temp./Humi.	:21.3°C / 62%
Antenna Pol.	:Horizontal
Engineer	:Temo Chen



		uDμv	uD	ασμ ν / π	ασμ ν / πι	чD
48.430	Peak	33.75	-12.44	21.31	40.00	-18.69
57.160	Peak	33.51	-12.79	20.72	40.00	-19.28
157.070	Peak	30.83	-12.64	18.19	43.50	-25.31
771.080	Peak	32.57	-1.92	30.64	46.00	-15.36
880.690	Peak	30.42	0.03	30.44	46.00	-15.56
997.090	Peak	29.91	0.56	30.47	54.00	-23.53

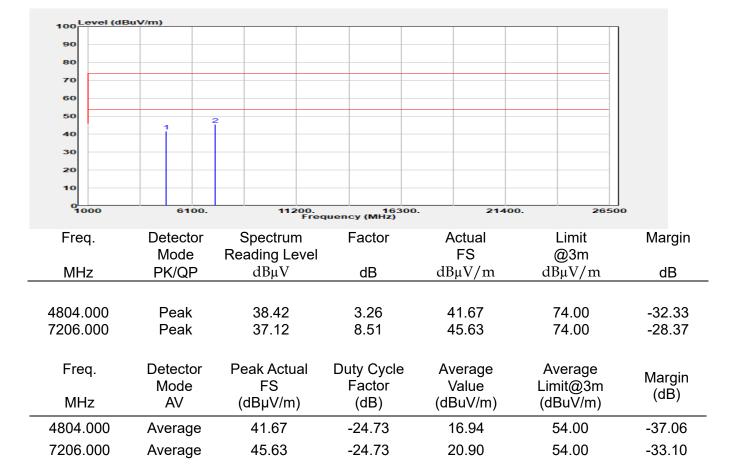
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Report Number	:TERF2303000621E2
Operation Mode	:BR
Test Frequency	:2402 MHz
Test Mode	:Tx
EUT Pol	:H Plane

Test Site	:SAC G Chamber
Test Date	:2023-04-21
Temp./Humi.	:24.3°C / 63%
Antenna Pol.	:Vertical
Engineer	:Temo Chen



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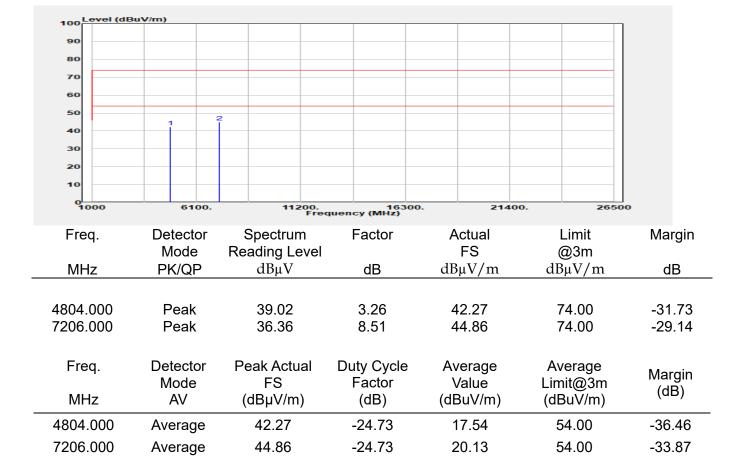
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Report Number	:TERF2303000621E2
Operation Mode	:BR
Test Frequency	:2402 MHz
Test Mode	:Tx
EUT Pol	:H Plane

Test Site	:SAC G Chamber
Test Date	:2023-04-21
Temp./Humi.	:24.3°C / 63%
Antenna Pol.	:Horizontal
Engineer	:Temo Chen



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:TERF2303000621E2
:BR
:2441 MHz
:Tx
:H Plane

Test Site	:SAC G Chamber
Test Date	:2023-04-21
Temp./Humi.	:24.3°C / 63%
Antenna Pol.	:Vertical
Engineer	:Temo Chen

100 Level (dE	3uV/m)					
90						
80						
70						
60						
50	1	2				
40						
30						
20						
10						
0 1000	6100.	11200. Fred	16300 juency (MHz)	. 21400	0. 26500	•
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margir
	Mode	Reading Level		FS	@3m	· ·
MHz	PK/QP	dBμV	dB	dBµV/m	dBµV/m	dB
4000 000	Deels	20.46	2.26	44 50	74.00	22.40
4882.000	Peak	38.16	3.36	41.52	74.00	-32.48
7323.000	Peak	37.33	8.66	45.99	74.00	-28.01
Freq.	Detector	Peak Actual	Duty Cycle	Average	Average	
•	Mode	FS	Factor	Value	Limit@3m	Margir
MHz	AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
4882.000	Average	41.52	-24.73	16.79	54.00	-37.21
7323.000	Average	45.99	-24.73	21.26	54.00	-32.74
	0					

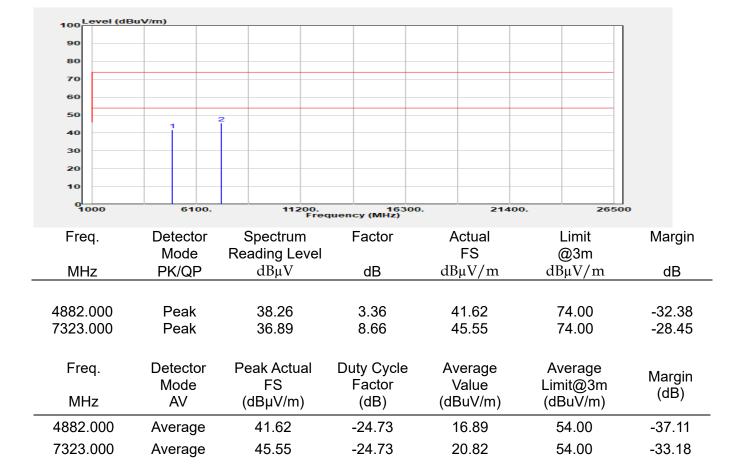
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Report Number	:TERF2303000621E2
Operation Mode	:BR
Test Frequency	:2441 MHz
Test Mode	:Tx
EUT Pol	:H Plane

Test Site	:SAC G Chamber
Test Date	:2023-04-21
Temp./Humi.	:24.3°C / 63%
Antenna Pol.	:Horizontal
Engineer	:Temo Chen



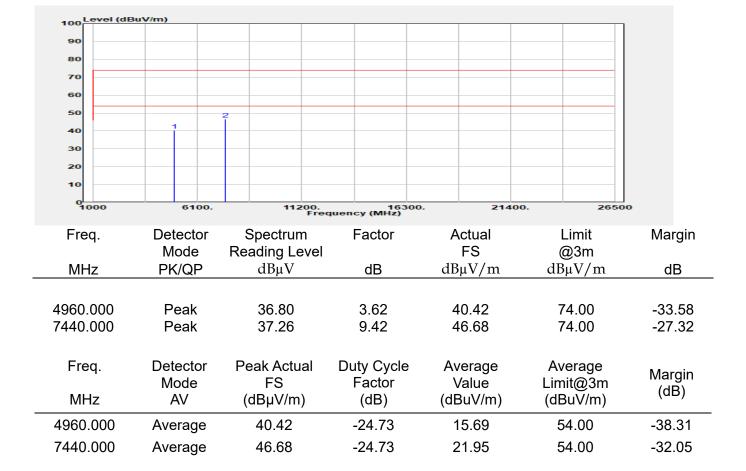
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Report Number	:TERF2303000621E2
Operation Mode	:BR
Test Frequency	:2480 MHz
Test Mode	:Tx
EUT Pol	:H Plane

Test Site	:SAC G Chamber
Test Date	:2023-04-21
Temp./Humi.	:24.3°C / 63%
Antenna Pol.	:Vertical
Engineer	:Temo Chen



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Report Number	:TERF2303000621E2
Operation Mode	:BR
Test Frequency	:2480 MHz
Test Mode	:Tx
EUT Pol	:H Plane

Test Site	:SAC G Chamber
Test Date	:2023-04-21
Temp./Humi.	:24.3°C / 63%
Antenna Pol.	:Horizontal
Engineer	:Temo Chen

100 Level (dE	8uV/m)					
90						
80						
70						
60						
50		2				
40	1					
30						
20						
10						
0	6100.	11200.	16300.	2140	0. 26500	
1000	0100.	Fred	quency (MHz)	2140	20500	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margir
	Mode	Reading Level		FS	@3m	
MHz	PK/QP	dBμV	dB	dBµV/m	dBµV/m	dB
4960.000	Peak	37.39	3.62	41.01	74.00	-32.99
7440.000	Peak	38.51	9.42	47.93	74.00	-32.98
7440.000	reak	30.51	9.42	47.95	74.00	-20.07
Freq.	Detector	Peak Actual	Duty Cycle	Average	Average	Manain
·	Mode	FS	Factor	Value	Limit@3m	Margir
MHz	AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
4960.000	Average	41.01	-24.73	16.28	54.00	-37.72
7440.000	Average	47.93	-24.73	23.20	54.00	-30.80
	0					

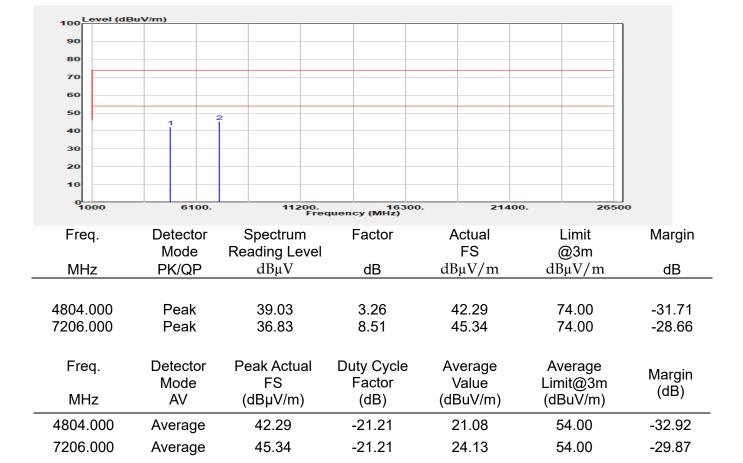
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Report Number	:TERF2303000621E2
Operation Mode	:EDR 3M
Test Frequency	:2402 MHz
Test Mode	:Tx
EUT Pol	:H Plane

Test Site	:SAC G Chamber
Test Date	:2023-04-21
Temp./Humi.	:24.3°C / 63%
Antenna Pol.	:Vertical
Engineer	:Temo Chen



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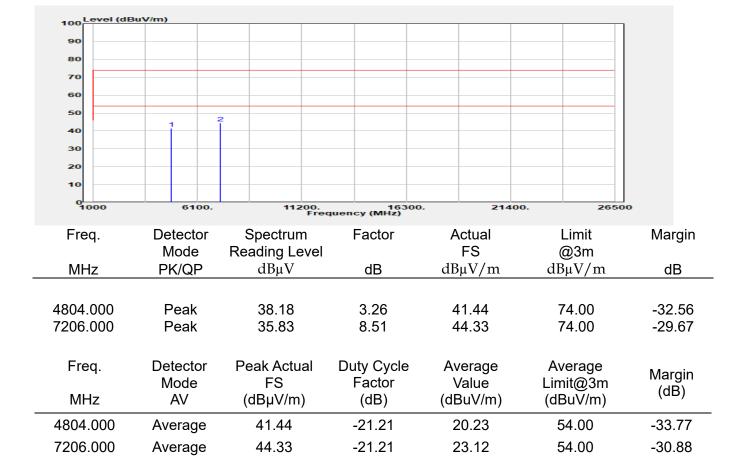
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Report Number	:TERF2303000621E2
Operation Mode	:EDR 3M
Test Frequency	:2402 MHz
Test Mode	:Tx
EUT Pol	:H Plane

Test Site	:SAC G Chamber
Test Date	:2023-04-21
Temp./Humi.	:24.3°C / 63%
Antenna Pol.	:Horizontal
Engineer	:Temo Chen



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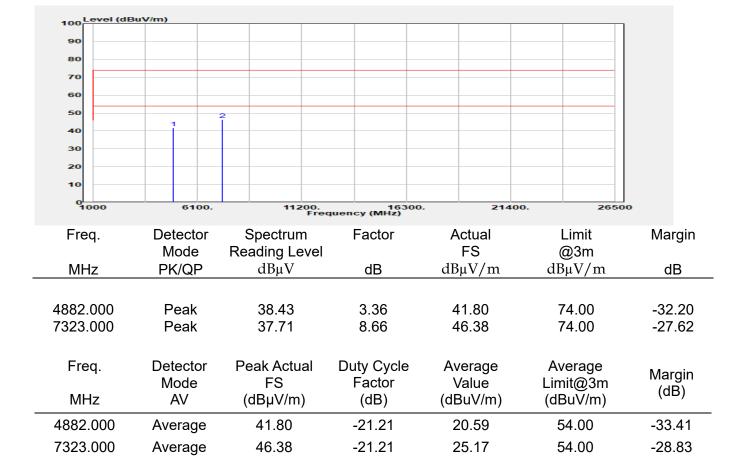
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Report Number	:TERF2303000621E2
Operation Mode	:EDR 3M
Test Frequency	:2441 MHz
Test Mode	:Tx
EUT Pol	:H Plane

Test Site	:SAC G Chamber
Test Date	:2023-04-21
Temp./Humi.	:24.3°C / 63%
Antenna Pol.	:Vertical
Engineer	:Temo Chen



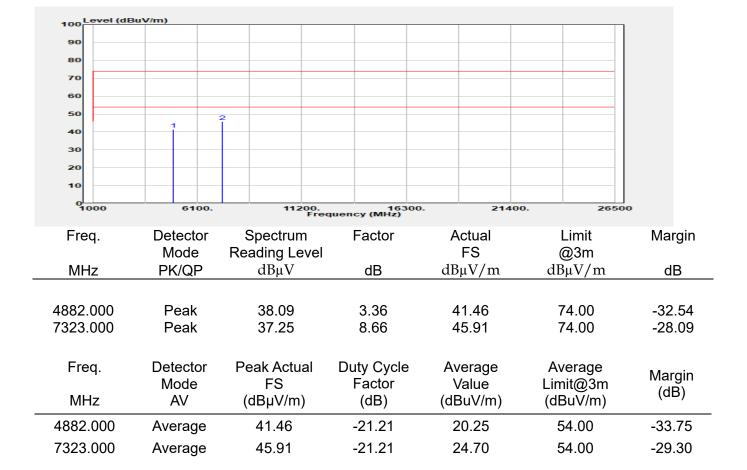
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Report Number	:TERF2303000621E2
Operation Mode	:EDR 3M
Test Frequency	:2441 MHz
Test Mode	:Tx
EUT Pol	:H Plane

Test Site	:SAC G Chamber
Test Date	:2023-04-21
Temp./Humi.	:24.3°C / 63%
Antenna Pol.	:Horizontal
Engineer	:Temo Chen



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