

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



Applicant: MediaTek Inc.
No. 1, Dusing 1st Rd., Hsinchu Science Park Hsinchu City
30078, Taiwan

Product Name: 2TX 11ax (WiFi6E) BW160 + BT/BLE Combo Card

Brand Name: MediaTek

Model No.: MT7922A22M

Model Difference: N/A

Report Number: TERF2204000200E2

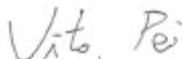
FCC ID RAS-MT7922A22M

IC: 7542A-MT7922A22M

Date of EUT Received: Apr. 12, 2022

Date of Test: Apr. 21, 2022~May 20, 2022

Issue Date: May 30, 2022



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.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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Revision History					
Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2204000200E2	00	Original.	May 30, 2022	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 and are assessed as electrically identical in RF characteristics, therefore, no further assessment required for the variant(s).

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	Notebook Computer
Brand Name:	acer
Model No. of FCC Host:	N22Q14
Model No. of IC Host:	TMP414-41, TMP414RN-41, TMP414P-41, TMP414A-41, TMP414RNA-41
Model Difference:	For marketing purpose
Power Supply:	15.4Vdc from Rechargeable Li-ion Battery or 19Vdc from AC/DC Adapter

1.2 RF Specification

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

1.3 Antenna Designation

Antenna Type	Supplier	NB / TB mode	Main / Aux	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)
PIFA	WNC	NB	Aux	81EABS15.G80	2402~2480	1.62
		TB				0.75

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.

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 (Amendment 2, February 2021)

ANSI C63.10:2013

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1.5 Test Facility

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

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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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 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 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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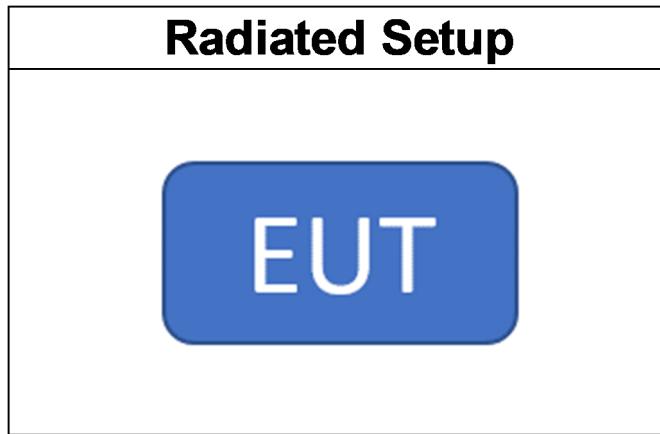
2.4 Measurement Results Explanation Example

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-anechoic 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.

2.5 Test Configuration



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3 SUMMARY OF TEST RESULTS

FCC Rules	IC Rules	Description Of Test	Result
§15.247(d) §15.209	RSS-247 §5.5 RSS-Gen §8.9	Radiated Spurious Emission	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 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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4.2 The Worst Test Modes and Channel Details

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

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	Uncertainty		
AC Power Line Conducted Emission	+/-	2.34	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	+/-	0.4	°C
Humidity	+/-	3.5	%
DC / AC Power Source	+/-	1	%

Radiated Spurious Emission Measurement Uncertainty		
Polarization: Vertical	+/- 2.57 dB	9kHz~30MHz
	+/- 4.85 dB	30MHz - 1000MHz
	+/- 4.45 dB	1GHz - 18GHz
	+/- 4.24 dB	18GHz - 40GHz
Polarization: Horizontal	+/- 2.57 dB	9kHz~30MHz
	+/- 4.37 dB	30MHz - 1000MHz
	+/- 4.45 dB	1GHz - 18GHz
	+/- 4.24 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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6 MEASUREMENT EQUIPMENT USED

6.1 Radiated Measurement

Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-300	10/19/2021	10/18/2022
Horn Antenna	SCHWARZBECK	BBHA9170	185	08/06/2021	08/05/2022
Horn Antenna	SCHWARZBECK	BBHA9120D	1187	01/06/2022	01/05/2023
Loop Antenna	ETS.LINDGREN	6502	143303	05/07/2021	05/06/2022
EMI Test Receiver	R&S	ESU 40	100363	04/28/2021	04/27/2022
Pre-Amplifier	EMC Instruments	EMC330	980096	11/18/2021	11/17/2022
Pre-Amplifier	EMC Instruments	EMC0011830	980199	11/18/2021	11/17/2022
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2021	10/26/2022
Attenuator	Marvelous	WATT-218FS-10	RF20	11/18/2021	11/17/2022
Band Rejection Filter	Micro-Tronics	BRM50701-01	RF201	11/18/2021	11/17/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	11/18/2021	11/17/2022
Coaxial Cable	Huber Suhner	RG 214/U	W22.03	11/18/2021	11/17/2022
Test Software	audix	e3	20923 sgs Ver.9	N.C.R	N.C.R

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

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7 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

7.1 Standard Applicable

7.1.1 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.

7.1.2 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:

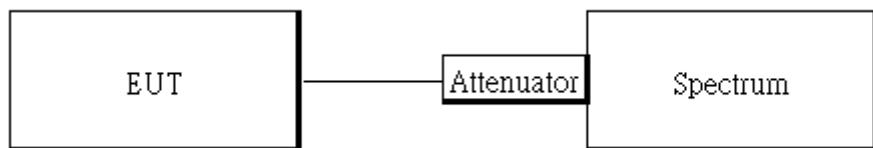
1. The lower limit shall apply at the transition frequencies.

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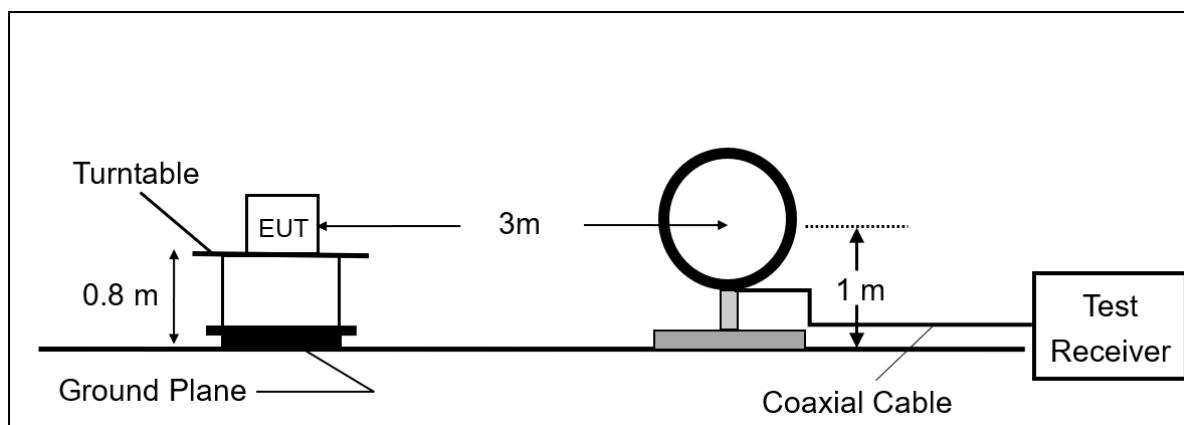
7.2 Test Setup

7.2.1 Duty Cycle Correction Factor

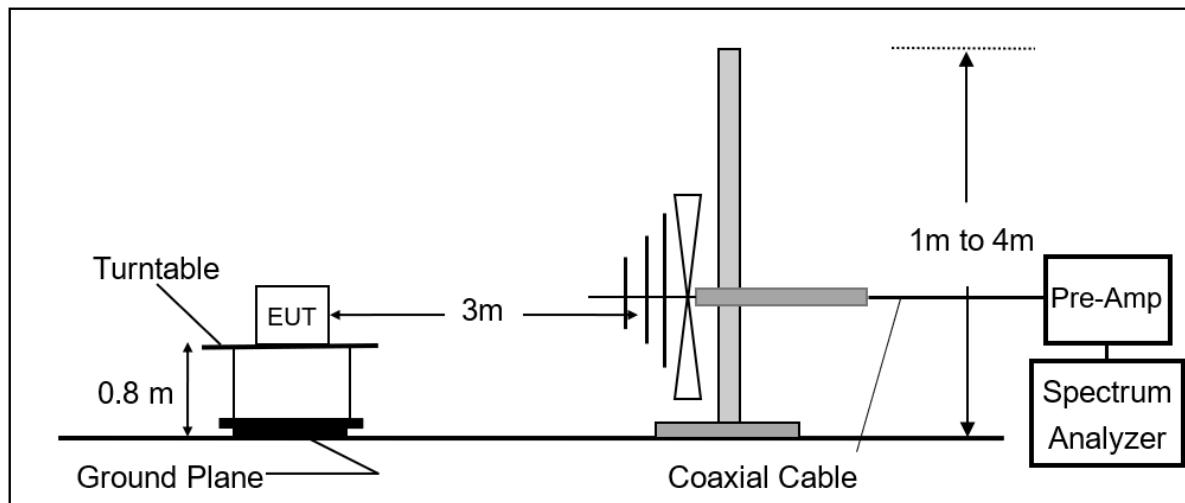


7.2.2 Radiated Emission

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



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

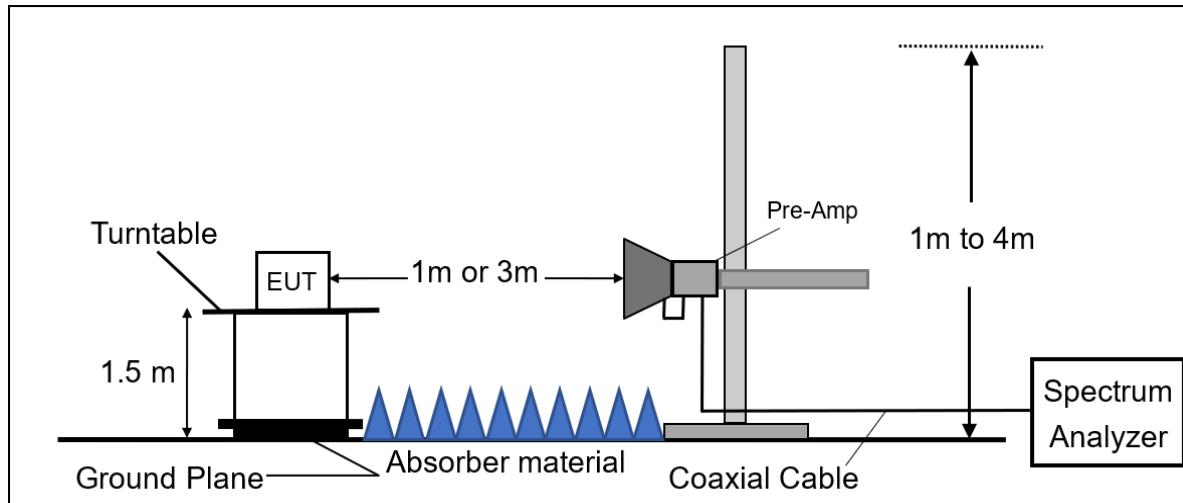


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(C) Radiated Emission Test Set-Up, Frequency Above 1 GHz.



7.3 Measurement Procedure

7.3.1 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 = 2~8ms.
6. Repeat above procedures until all frequency of the interest measured were complete.

7.3.2 Radiated Emission

1. The testing follows the Measurement Procedure of ANSI C63.10:2013.
2. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz.
6. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.

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7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Maximum Emission Measurements at frequency above 1 GHz.
8. According to C63.10:2013 Section 7.5 Procedure for determining the average value of pulsed emissions with duty cycle correction factor $20 \log(T_{on}/100ms)$.
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.

7.4 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 $dB\mu V/m$, which converts $20 * \log(uV/m)$

Actual $FS(dB\mu V/m) = SPA \cdot Reading\ level(dB\mu V) + Factor(dB)$

$Factor(dB) = Antenna\ Factor(dB\mu V/m) + Cable\ Loss(dB) - Pre_Amplifier\ Gain(dB)$

Average value($dB\mu V/m$) = Peak Actual $FS(dB\mu V/m) + Duty\ Cycle\ Correction\ Factor(dB)$

$Duty\ Cycle\ Correction\ Factor(dB) = 20 \log(T_{on}/100\ ms)$

7.5 Test Results of Radiated Spurious Emissions from 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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7.6 Measurement Result:

7.6.1 Duty Cycle Correction Factor

NB

BR

Time ON of 100ms:	74.999	ms
Duty Cycle=74.999ms / 100ms=	0.74999	%
Duty Cycle correction factor=20 LOG 0.74999=	-2.50	dB

EDR

Time ON of 100ms:	74.999	ms
Duty Cycle=74.999ms / 100ms=	0.74999	%
Duty Cycle correction factor=20 LOG 0.74999=	-2.50	dB

TB

BR

Time ON of 100ms:	74.999	ms
Duty Cycle=74.999ms / 100ms=	0.74999	%
Duty Cycle correction factor=20 LOG 0.74999=	-2.50	dB

EDR

Time ON of 100ms:	74.999	ms
Duty Cycle=74.999ms / 100ms=	0.74999	%
Duty Cycle correction factor=20 LOG 0.74999=	-2.50	dB

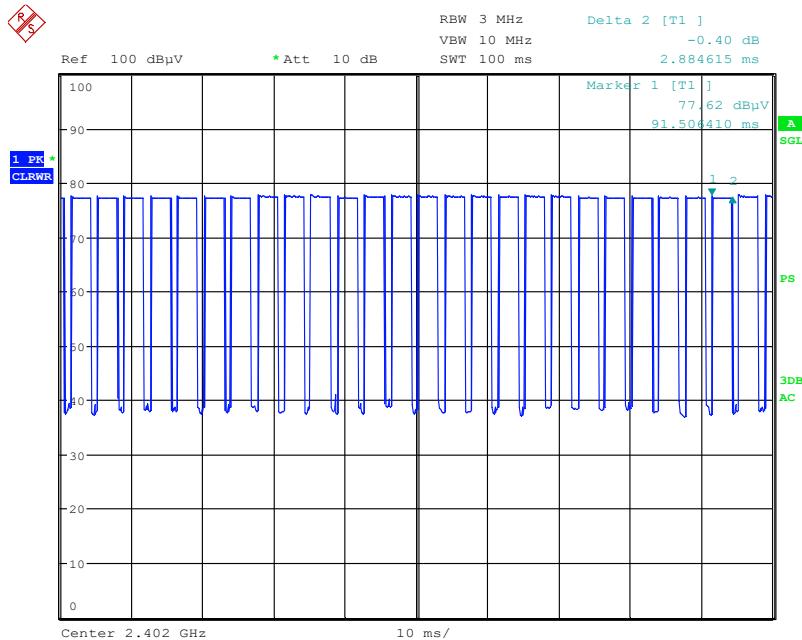
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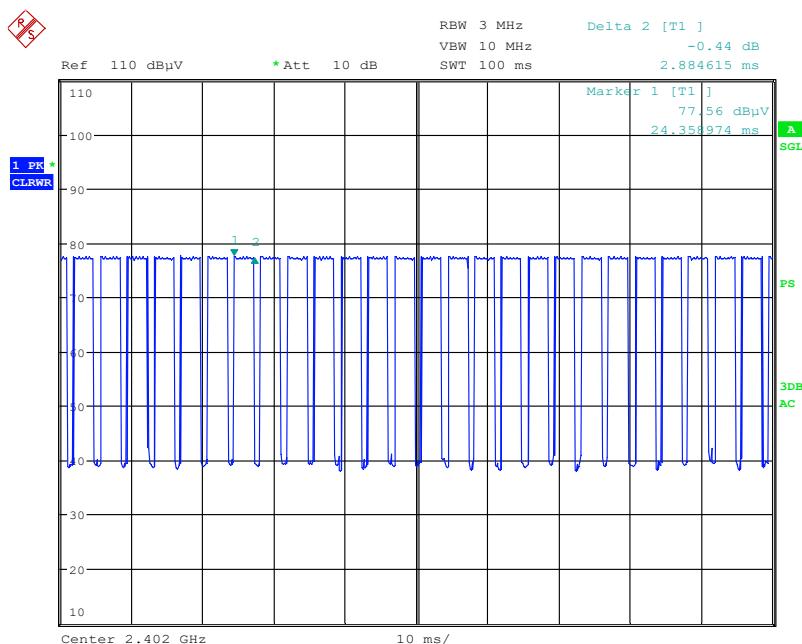
7.6.2 Duty Cycle test plot

NB
BR



Date: 4.MAY.2022 11:03:04

EDR

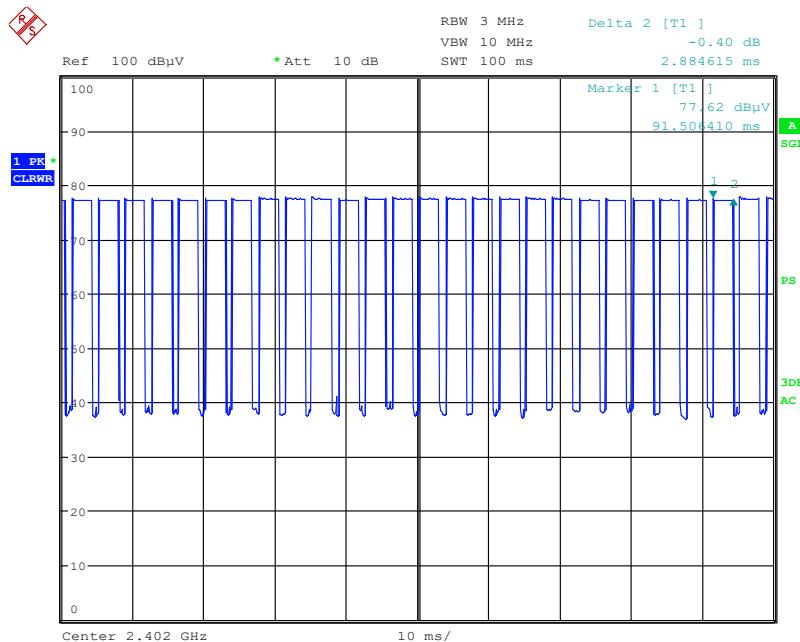


Date: 4.MAY.2022 11:06:16

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

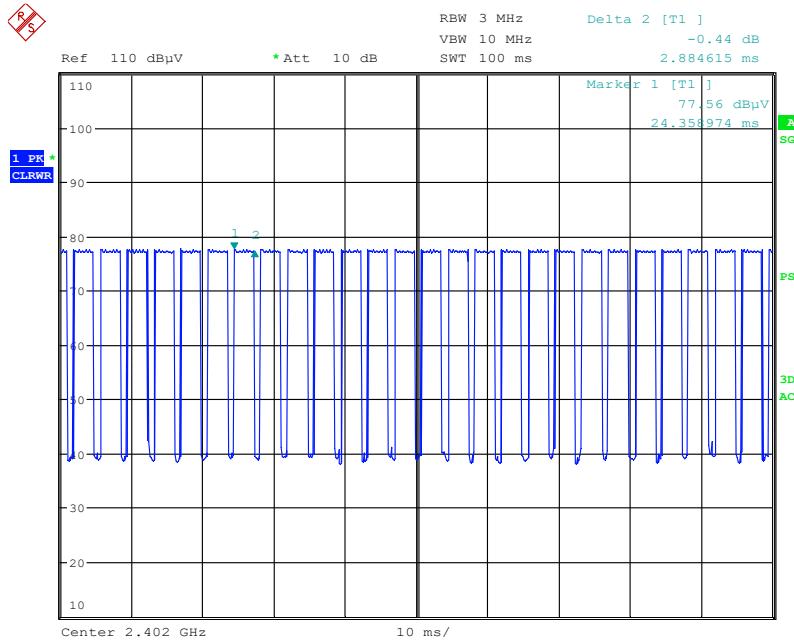
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TB
BR

Date: 4.MAY.2022 11:03:04

EDR



Date: 4.MAY.2022 11:06:16

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7.6.3 Radiated Spurious Emission

NB

Report Number :TERF2204000200E2
 Operation Mode :BT BR
 Test Frequency :2441 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2022-05-03
 Temp./Humi. :25.6/70
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
50.208	Peak	35.15	-15.79	19.37	40.00	-20.63
238.301	Peak	40.16	-17.57	22.59	46.00	-23.41
429.503	Peak	37.23	-11.65	25.58	46.00	-20.42
533.654	Peak	39.58	-9.02	30.55	46.00	-15.45
771.490	Peak	34.72	-4.81	29.92	46.00	-16.08
944.039	Peak	30.64	-1.93	28.71	46.00	-17.29

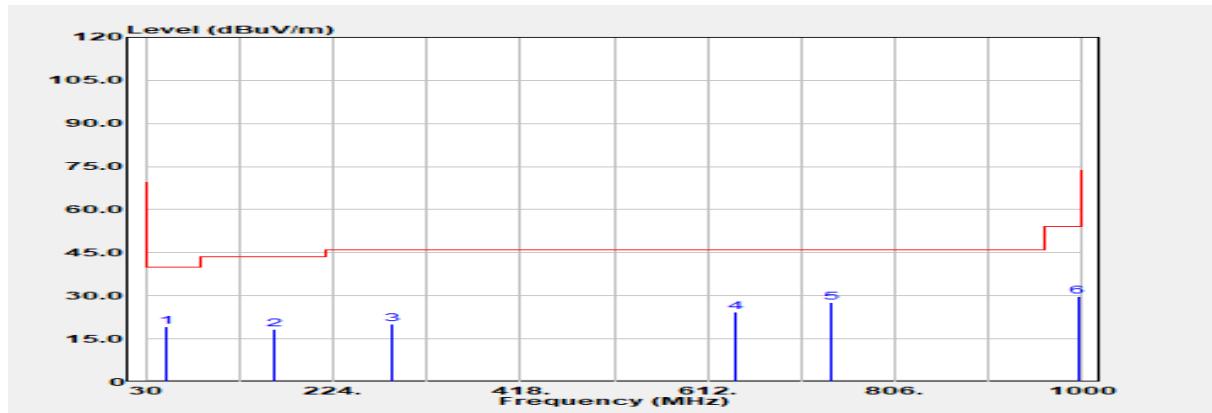
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Report Number :TERF2204000200E2
Operation Mode :BT BR
Test Frequency :2441 MHz
Test Mode :TX CH MID
EUT Pol :NB Plane

Test Site :SAC C
Test Date :2022-05-03
Temp./Humi. :25.6/70
Antenna Pol. :Horizontal
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
51.763	Peak	34.94	-15.77	19.17	40.00	-20.83
162.131	Peak	34.35	-16.11	18.24	43.50	-25.26
284.936	Peak	35.93	-15.69	20.24	46.00	-25.76
640.914	Peak	30.97	-6.59	24.37	46.00	-21.63
740.401	Peak	32.26	-4.57	27.69	46.00	-18.31
995.337	Peak	31.58	-1.70	29.88	54.00	-24.12

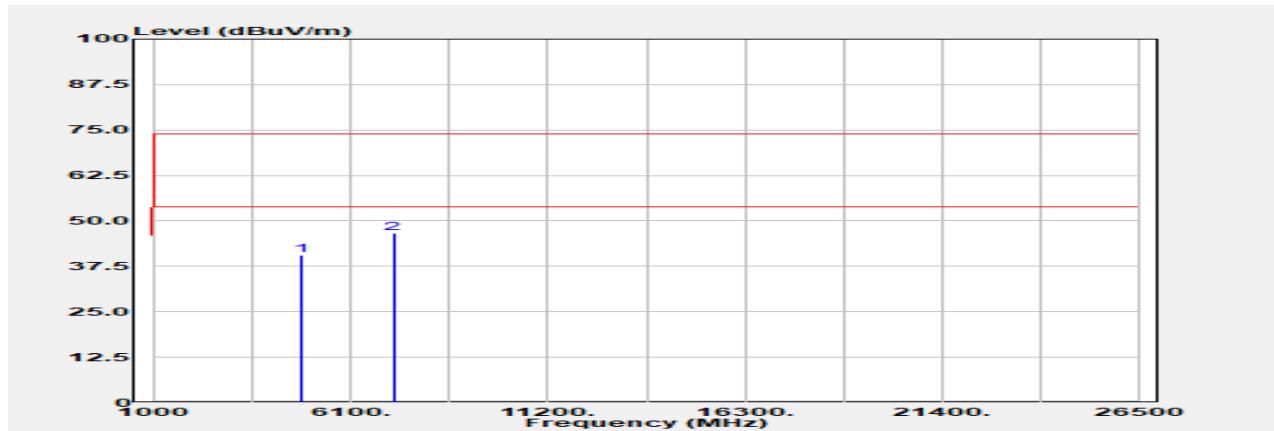
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Report Number :TERF2204000200E2
 Operation Mode :BT BR
 Test Frequency :2402 MHz
 Test Mode :TX CH LOW
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2022-05-03
 Temp./Humi. :25.6/70
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.000	Peak	31.12	9.50	40.62	74.00	-33.38
7206.000	Peak	29.08	17.49	46.57	74.00	-27.43

Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
--------------	------------------------	-------------------------------------	------------------------------	------------------------------	---------------------------------	----------------

4804.000	Average	40.62	-2.50	38.12	54.00	-15.88
7206.000	Average	46.57	-2.50	44.07	54.00	-9.93

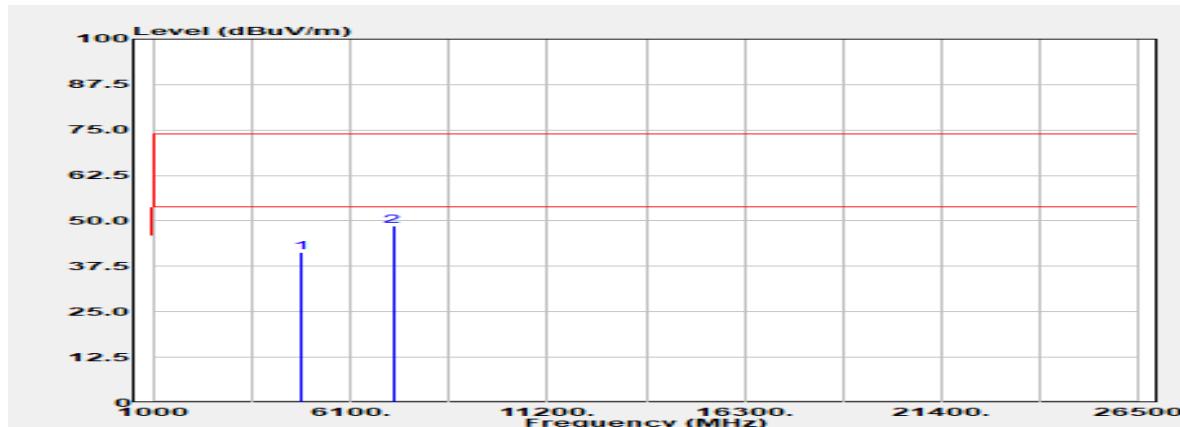
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Report Number :TERF2204000200E2
 Operation Mode :BT BR
 Test Frequency :2402 MHz
 Test Mode :TX CH LOW
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2022-05-03
 Temp./Humi. :25.6/70
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.000	Peak	31.84	9.50	41.34	74.00	-32.66
7206.000	Peak	31.01	17.49	48.51	74.00	-25.49

Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
--------------	------------------------	-------------------------------------	------------------------------	------------------------------	---------------------------------	----------------

4804.000	Average	41.34	-2.50	38.84	54.00	-15.16
7206.000	Average	48.51	-2.50	46.01	54.00	-7.99

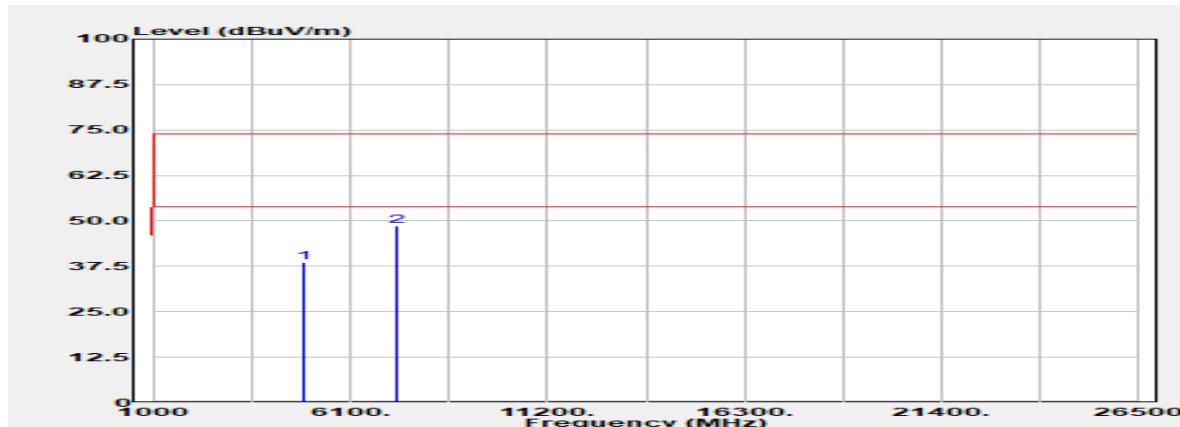
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Report Number :TERF2204000200E2
 Operation Mode :BT BR
 Test Frequency :2441 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2022-05-03
 Temp./Humi. :25.6/70
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4882.000	Peak	29.43	9.28	38.71	74.00	-35.29
7323.000	Peak	30.62	18.02	48.65	74.00	-25.35

Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
--------------	------------------------	-------------------------------------	------------------------------	------------------------------	---------------------------------	----------------

4882.000	Average	38.71	-2.50	36.21	54.00	-17.79
7323.000	Average	48.65	-2.50	46.15	54.00	-7.85

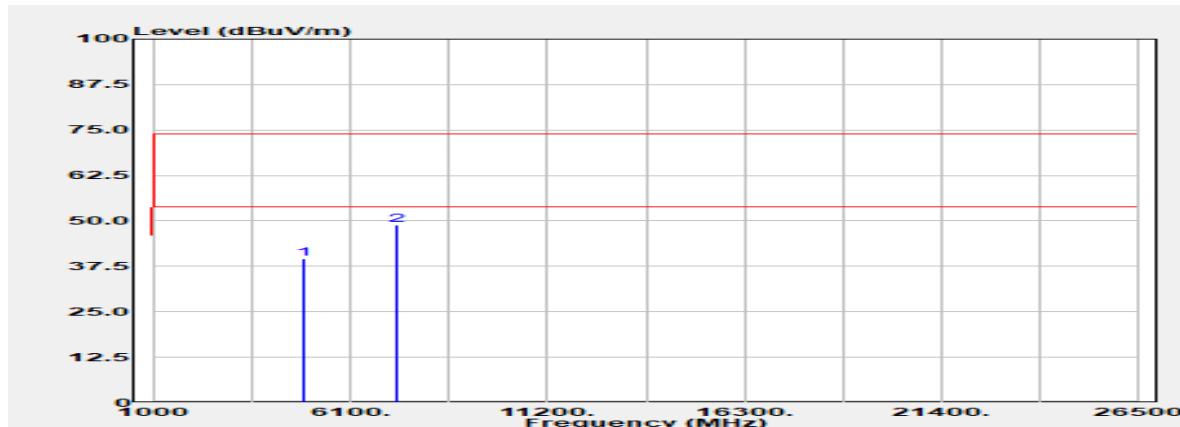
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Report Number :TERF2204000200E2
 Operation Mode :BT BR
 Test Frequency :2441 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2022-05-03
 Temp./Humi. :25.6/70
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4882.000	Peak	30.30	9.28	39.58	74.00	-34.42
7323.000	Peak	30.76	18.02	48.78	74.00	-25.22

Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
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4882.000	Average	39.58	-2.50	37.08	54.00	-16.92
7323.000	Average	48.78	-2.50	46.28	54.00	-7.72

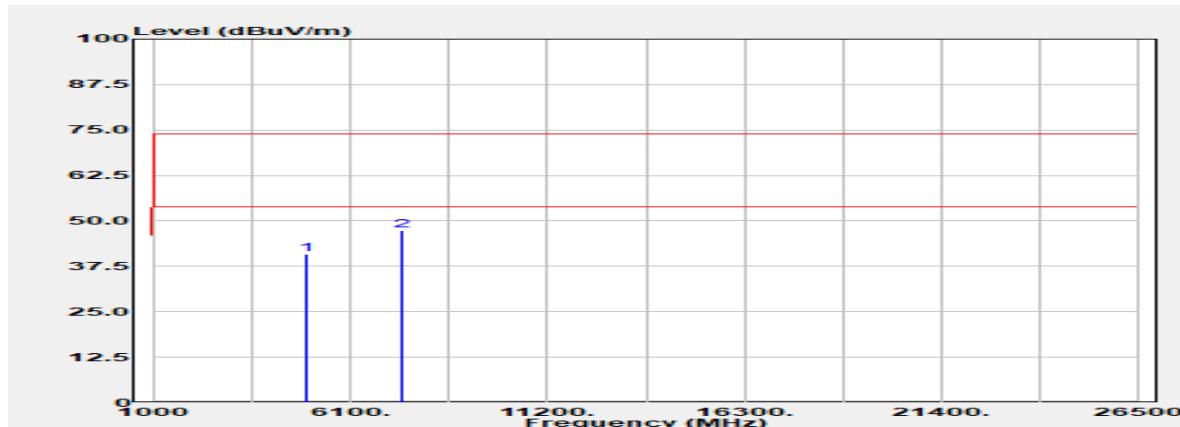
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Report Number :TERF2204000200E2
 Operation Mode :BT BR
 Test Frequency :2480 MHz
 Test Mode :TX CH HIGH
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2022-05-03
 Temp./Humi. :25.6/70
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Peak	30.80	10.03	40.83	74.00	-33.17
7440.000	Peak	29.23	18.23	47.46	74.00	-26.54

Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
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4960.000	Average	40.83	-2.50	38.33	54.00	-15.67
7440.000	Average	47.46	-2.50	44.96	54.00	-9.04

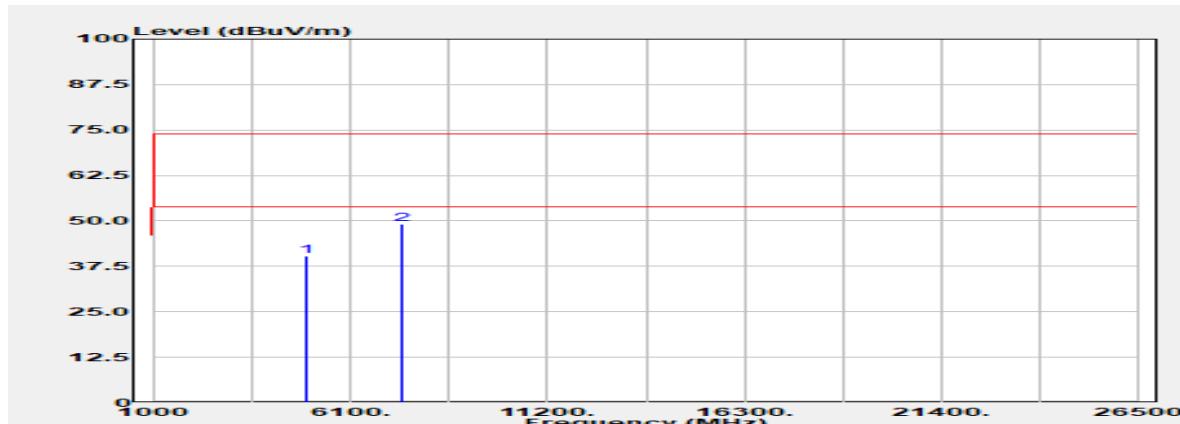
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Report Number :TERF2204000200E2
 Operation Mode :BT BR
 Test Frequency :2480 MHz
 Test Mode :TX CH HIGH
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2022-05-03
 Temp./Humi. :25.6/70
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Peak	30.26	10.03	40.29	74.00	-33.71
7440.000	Peak	30.95	18.23	49.17	74.00	-24.83

Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
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4960.000	Average	40.29	-2.50	37.79	54.00	-16.21
7440.000	Average	49.17	-2.50	46.67	54.00	-7.33

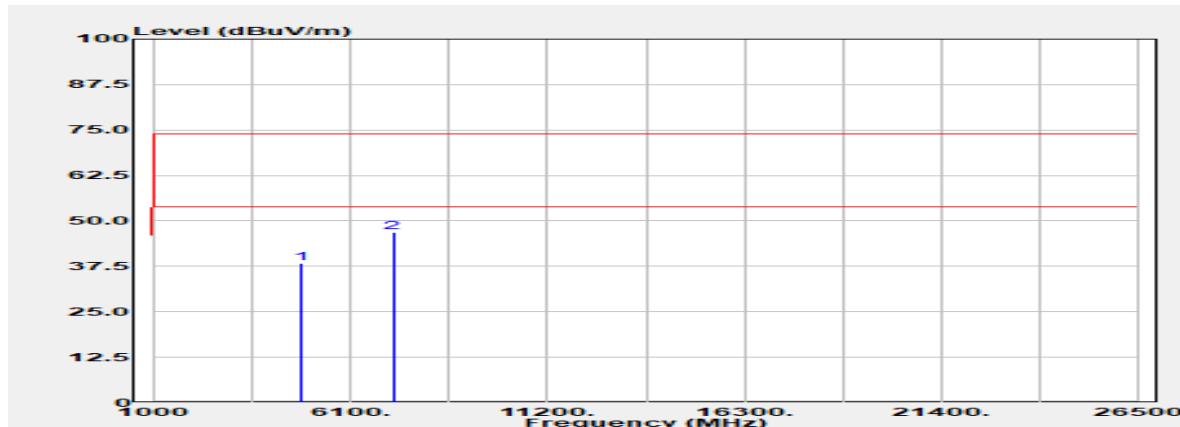
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Report Number :TERF2204000200E2
 Operation Mode :BT EDR 3M
 Test Frequency :2402 MHz
 Test Mode :TX CH LOW
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2022-05-03
 Temp./Humi. :25.6/70
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.000	Peak	28.89	9.50	38.39	74.00	-35.61
7206.000	Peak	29.46	17.49	46.95	74.00	-27.05

Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
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4804.000	Average	38.39	-2.50	35.89	54.00	-18.11
7206.000	Average	46.95	-2.50	44.45	54.00	-9.55

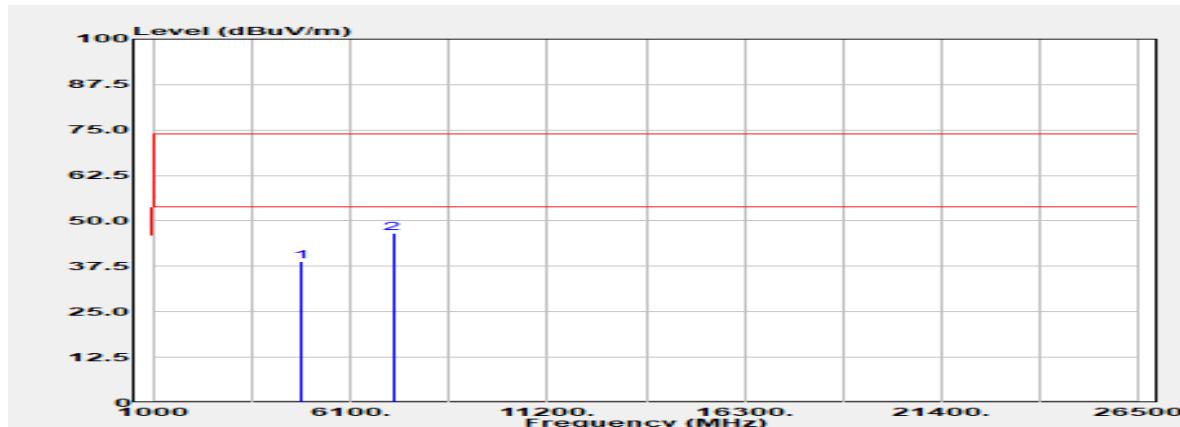
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Report Number :TERF2204000200E2
 Operation Mode :BT EDR 3M
 Test Frequency :2402 MHz
 Test Mode :TX CH LOW
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2022-05-03
 Temp./Humi. :25.6/70
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.000	Peak	29.32	9.50	38.82	74.00	-35.18
7206.000	Peak	29.17	17.49	46.66	74.00	-27.34

Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
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4804.000	Average	38.82	-2.50	36.32	54.00	-17.68
7206.000	Average	46.66	-2.50	44.16	54.00	-9.84

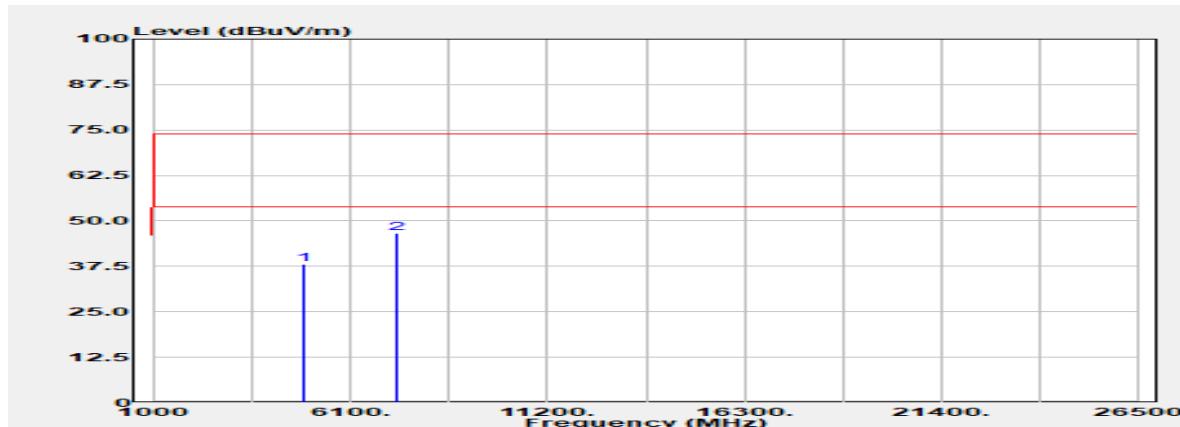
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Report Number :TERF2204000200E2
 Operation Mode :BT EDR 3M
 Test Frequency :2441 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2022-05-03
 Temp./Humi. :25.6/70
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4882.000	Peak	28.87	9.28	38.15	74.00	-35.85
7323.000	Peak	28.48	18.02	46.50	74.00	-27.50

Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4882.000	Average	38.15	-2.50	35.65	54.00	-18.35
7323.000	Average	46.50	-2.50	44.00	54.00	-10.00

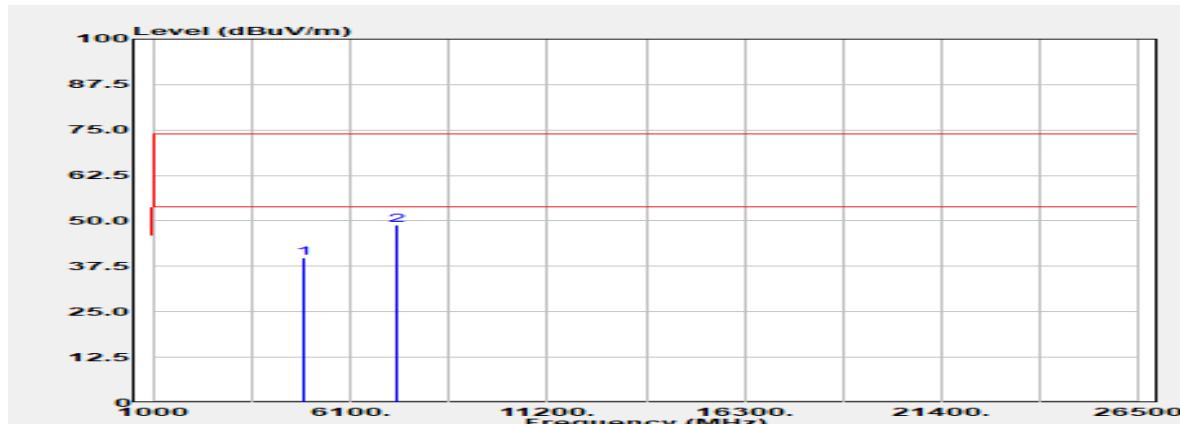
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Report Number :TERF2204000200E2
 Operation Mode :BT EDR 3M
 Test Frequency :2441 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2022-05-03
 Temp./Humi. :25.6/70
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4882.000	Peak	30.69	9.28	39.97	74.00	-34.03
7323.000	Peak	30.92	18.02	48.95	74.00	-25.05

Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
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4882.000	Average	39.97	-2.50	37.47	54.00	-16.53
7323.000	Average	48.95	-2.50	46.45	54.00	-7.55

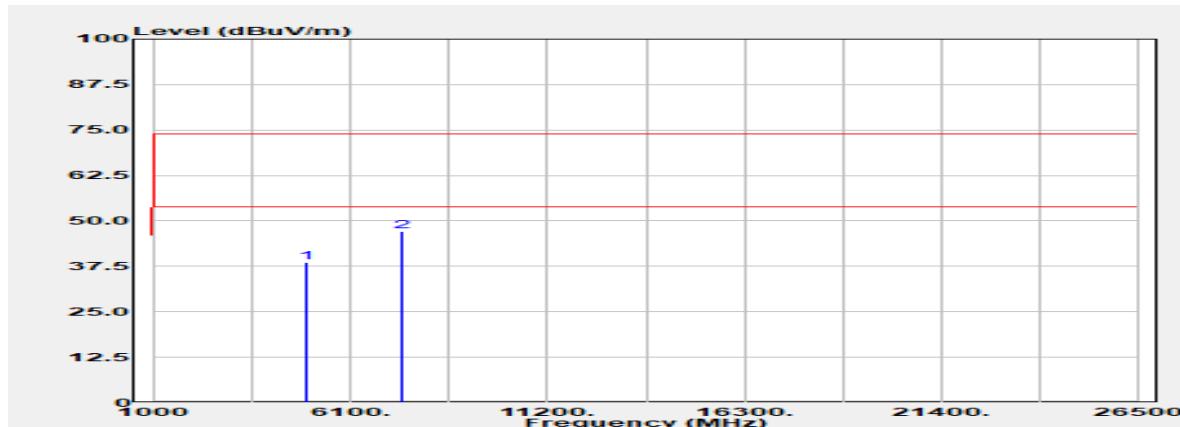
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Report Number :TERF2204000200E2
 Operation Mode :BT EDR 3M
 Test Frequency :2480 MHz
 Test Mode :TX CH HIGH
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2022-05-03
 Temp./Humi. :25.6/70
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Peak	28.56	10.03	38.59	74.00	-35.41
7440.000	Peak	28.80	18.23	47.03	74.00	-26.97

Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4960.000	Average	38.59	-2.50	36.09	54.00	-17.91
7440.000	Average	47.03	-2.50	44.53	54.00	-9.47

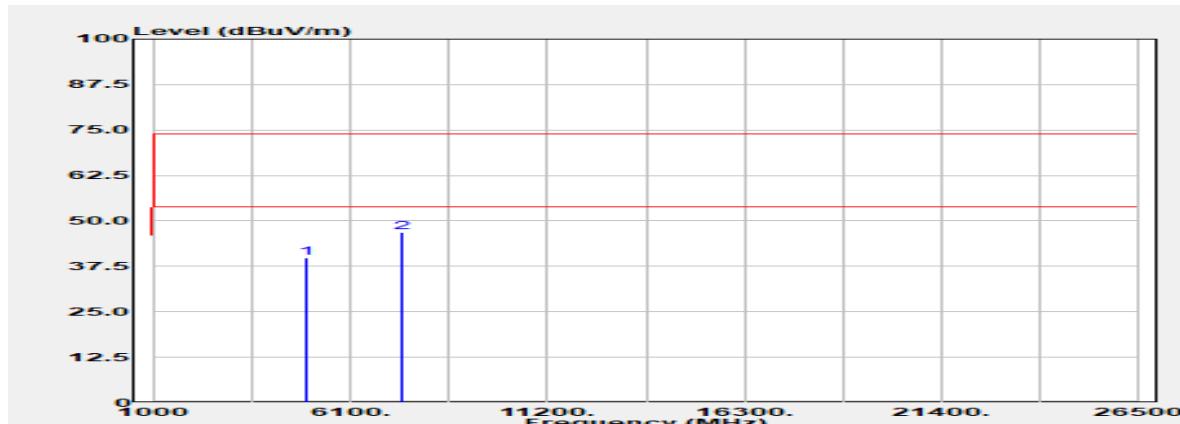
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Report Number :TERF2204000200E2
 Operation Mode :BT EDR 3M
 Test Frequency :2480 MHz
 Test Mode :TX CH HIGH
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2022-05-03
 Temp./Humi. :25.6/70
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Peak	29.87	10.03	39.90	74.00	-34.10
7440.000	Peak	28.64	18.23	46.87	74.00	-27.13

Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4960.000	Average	39.90	-2.50	37.40	54.00	-16.60
7440.000	Average	46.87	-2.50	44.37	54.00	-9.63

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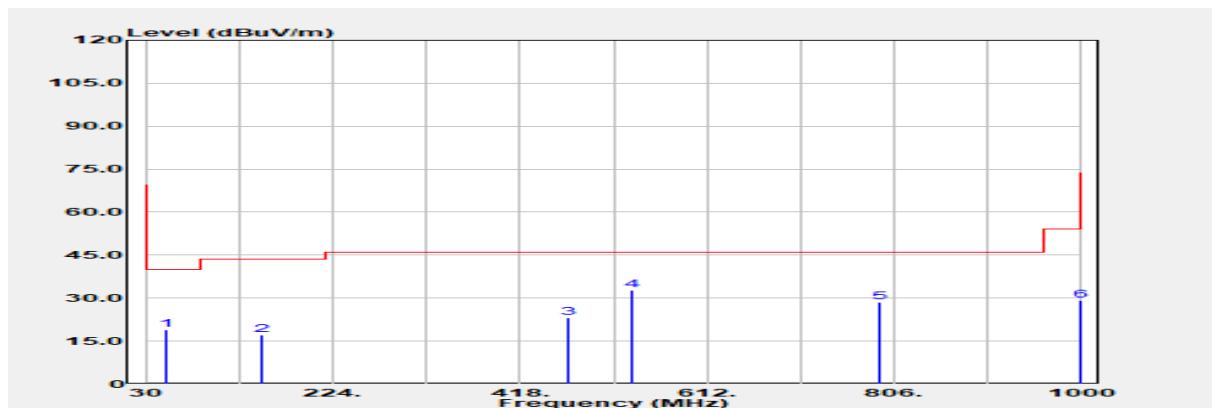
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TB

Report Number :TERF2204000200E2
 Operation Mode :BT BR
 Test Frequency :2441 MHz
 Test Mode :TX CH MID
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2022-04-21
 Temp./Humi. :21.8/68
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
51.763	Peak	34.81	-15.77	19.04	40.00	-20.96
149.696	Peak	33.12	-15.87	17.25	43.50	-26.25
468.365	Peak	33.82	-10.73	23.10	46.00	-22.90
535.208	Peak	41.40	-8.69	32.71	46.00	-13.29
791.699	Peak	32.82	-4.39	28.43	46.00	-17.57
1000.000	Peak	17.70	11.60	29.30	54.00	-24.70

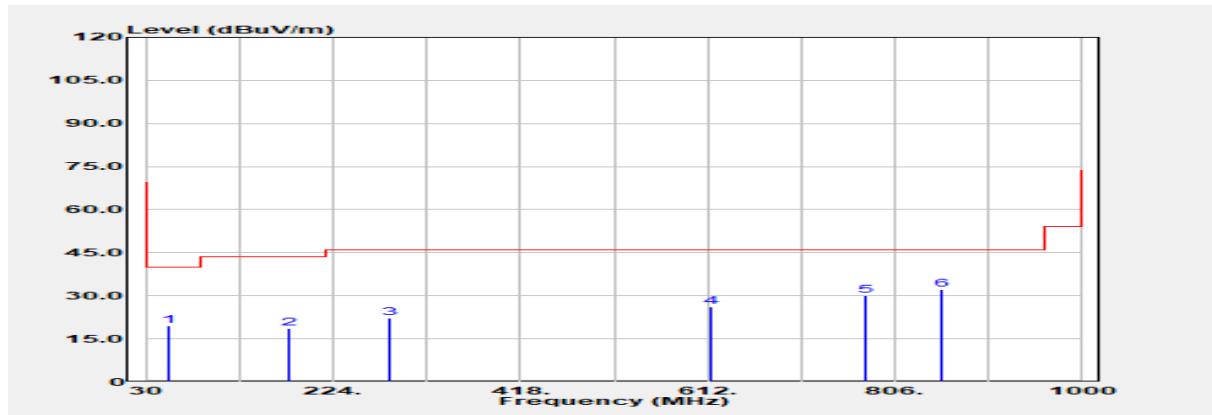
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Report Number :TERF2204000200E2
Operation Mode :BT BR
Test Frequency :2441 MHz
Test Mode :TX CH MID
EUT Pol :E1 Plane

Test Site :SAC C
Test Date :2022-04-21
Temp./Humi. :21.8/68
Antenna Pol. :Horizontal
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
53.317	Peak	35.46	-15.81	19.65	40.00	-20.35
179.231	Peak	35.85	-17.28	18.57	43.50	-24.93
283.381	Peak	38.10	-15.72	22.38	46.00	-23.62
616.042	Peak	33.39	-7.29	26.10	46.00	-19.90
774.599	Peak	34.55	-4.36	30.19	46.00	-15.81
853.878	Peak	35.25	-3.21	32.04	46.00	-13.96

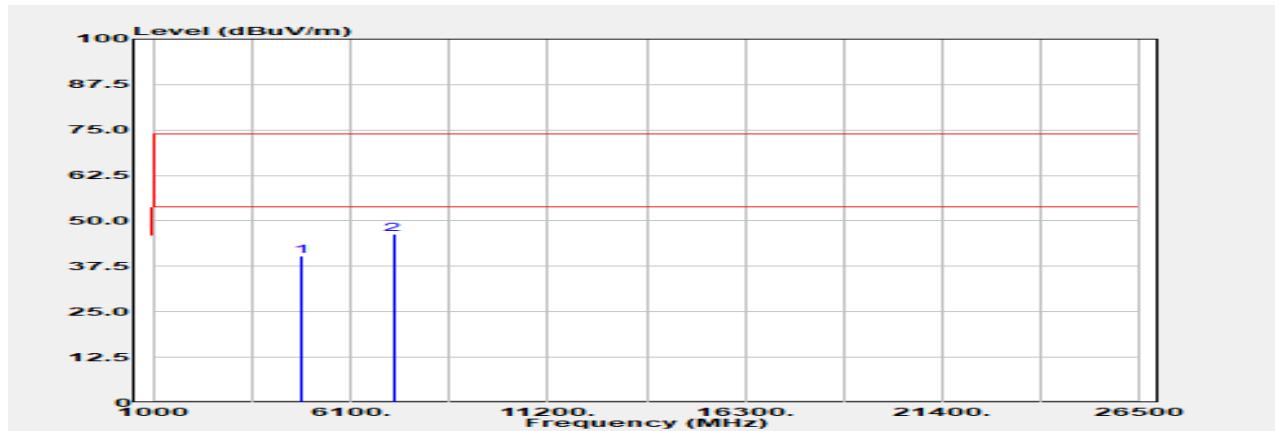
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Report Number :TERF2204000200E2
 Operation Mode :BT BR
 Test Frequency :2402 MHz
 Test Mode :TX CH LOW
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2022-05-03
 Temp./Humi. :25.6/70
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.000	Peak	30.75	9.50	40.26	74.00	-33.74
7206.000	Peak	28.95	17.49	46.44	74.00	-27.56

Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
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4804.000	Average	40.26	-2.50	37.76	54.00	-16.24
7206.000	Average	46.44	-2.50	43.94	54.00	-10.06

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Report Number :TERF2204000200E2
 Operation Mode :BT BR
 Test Frequency :2402 MHz
 Test Mode :TX CH LOW
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2022-05-03
 Temp./Humi. :25.6/70
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.000	Peak	29.66	9.50	39.16	74.00	-34.84
7206.000	Peak	29.55	17.49	47.05	74.00	-26.95

Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
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4804.000	Average	39.16	-2.50	36.66	54.00	-17.34
7206.000	Average	47.05	-2.50	44.55	54.00	-9.45

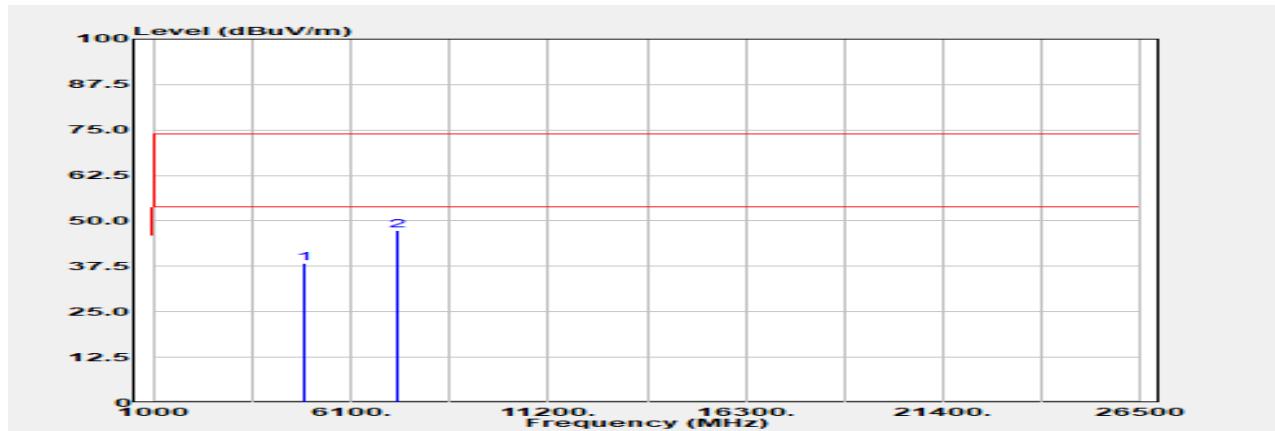
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Report Number :TERF2204000200E2
 Operation Mode :BT BR
 Test Frequency :2441 MHz
 Test Mode :TX CH MID
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2022-05-03
 Temp./Humi. :25.6/70
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4882.000	Peak	29.10	9.28	38.38	74.00	-35.62
7323.000	Peak	29.31	18.02	47.33	74.00	-26.67

Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
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4882.000	Average	38.38	-2.50	35.88	54.00	-18.12
7323.000	Average	47.33	-2.50	44.83	54.00	-9.17

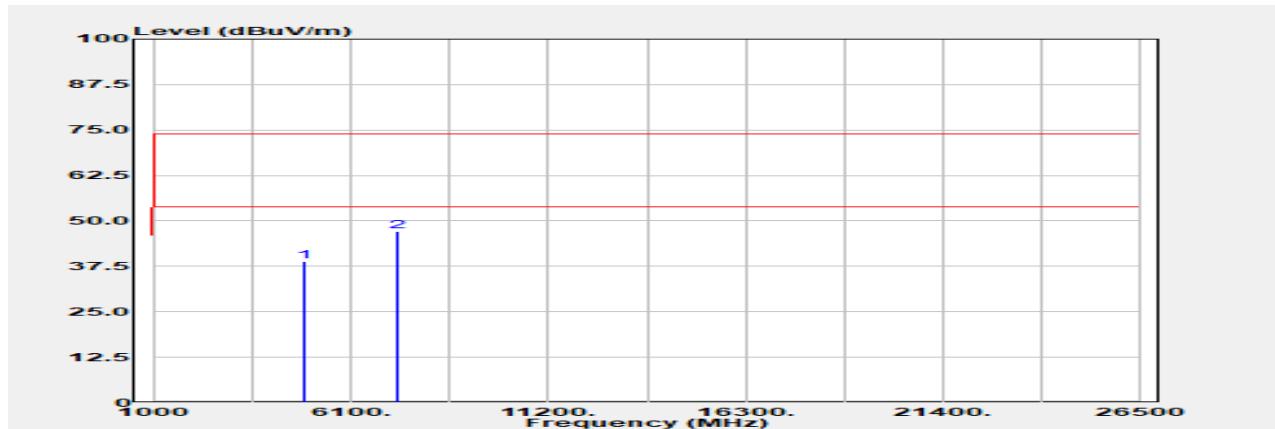
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Report Number :TERF2204000200E2
Operation Mode :BT BR
Test Frequency :2441 MHz
Test Mode :TX CH MID
EUT Pol :E1 Plane

Test Site :SAC C
Test Date :2022-05-03
Temp./Humi. :25.6/70
Antenna Pol. :Horizontal
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4882.000	Peak	29.51	9.28	38.79	74.00	-35.21
7323.000	Peak	29.17	18.02	47.20	74.00	-26.80

Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
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4882.000	Average	38.79	-2.50	36.29	54.00	-17.71
7323.000	Average	47.20	-2.50	44.70	54.00	-9.30

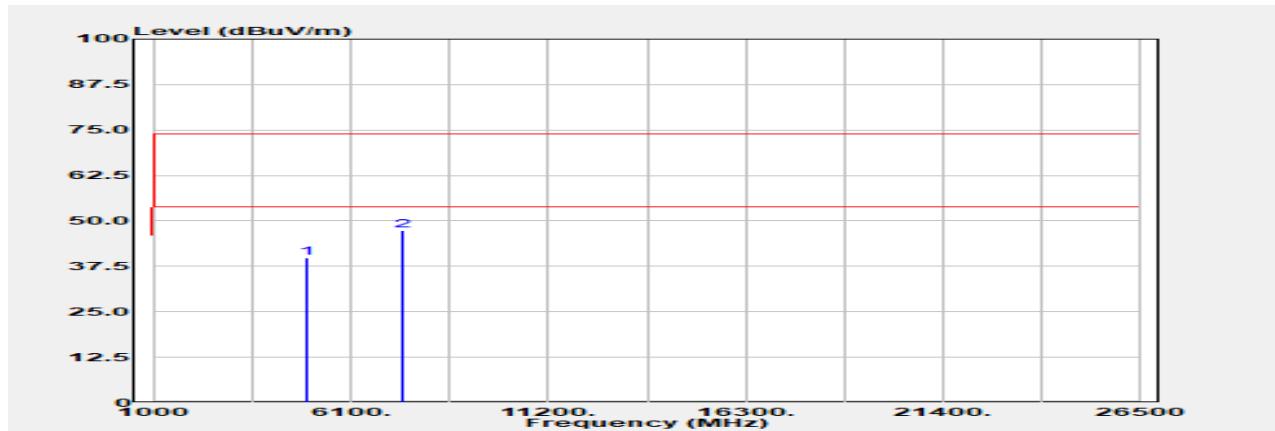
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Report Number :TERF2204000200E2
Operation Mode :BT BR
Test Frequency :2480 MHz
Test Mode :TX CH HIGH
EUT Pol :E1 Plane

Test Site :SAC C
Test Date :2022-05-03
Temp./Humi. :25.6/70
Antenna Pol. :Vertical
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Peak	29.84	10.03	39.87	74.00	-34.13
7440.000	Peak	29.11	18.23	47.34	74.00	-26.66

Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
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4960.000	Average	39.87	-2.50	37.37	54.00	-16.63
7440.000	Average	47.34	-2.50	44.84	54.00	-9.16

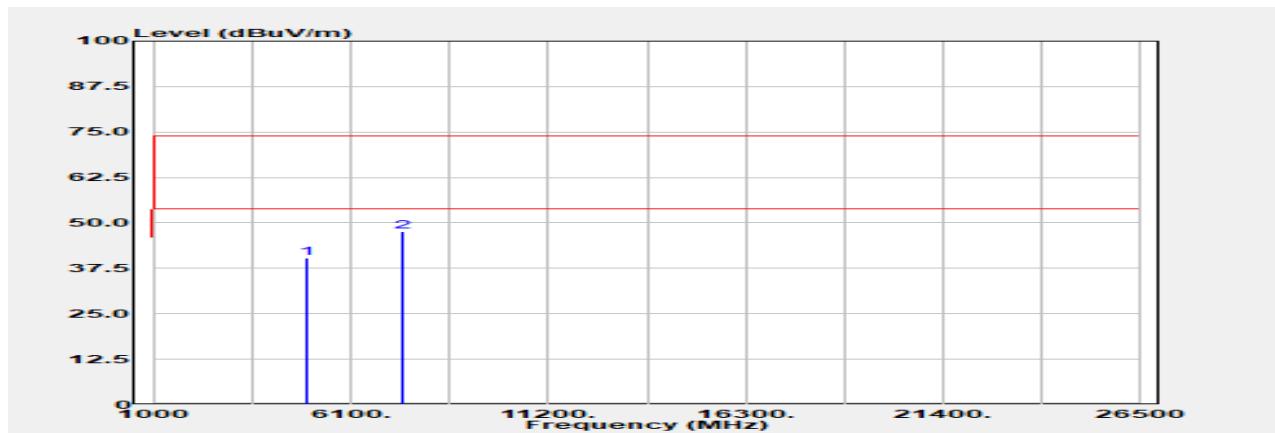
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Report Number :TERF2204000200E2
Operation Mode :BT BR
Test Frequency :2480 MHz
Test Mode :TX CH HIGH
EUT Pol :E1 Plane

Test Site :SAC C
Test Date :2022-05-03
Temp./Humi. :25.6/70
Antenna Pol. :Horizontal
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Peak	30.38	10.03	40.42	74.00	-33.58
7440.000	Peak	29.36	18.23	47.59	74.00	-26.41

Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
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4960.000	Average	40.42	-2.50	37.92	54.00	-16.08
7440.000	Average	47.59	-2.50	45.09	54.00	-8.91

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Report Number :TERF2204000200E2
 Operation Mode :BT EDR 3M
 Test Frequency :2402 MHz
 Test Mode :TX CH LOW
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2022-05-03
 Temp./Humi. :25.6/70
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.000	Peak	30.16	9.50	39.66	74.00	-34.34
7206.000	Peak	29.52	17.49	47.02	74.00	-26.98

Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
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4804.000	Average	39.66	-2.50	37.16	54.00	-16.84
7206.000	Average	47.02	-2.50	44.52	54.00	-9.48

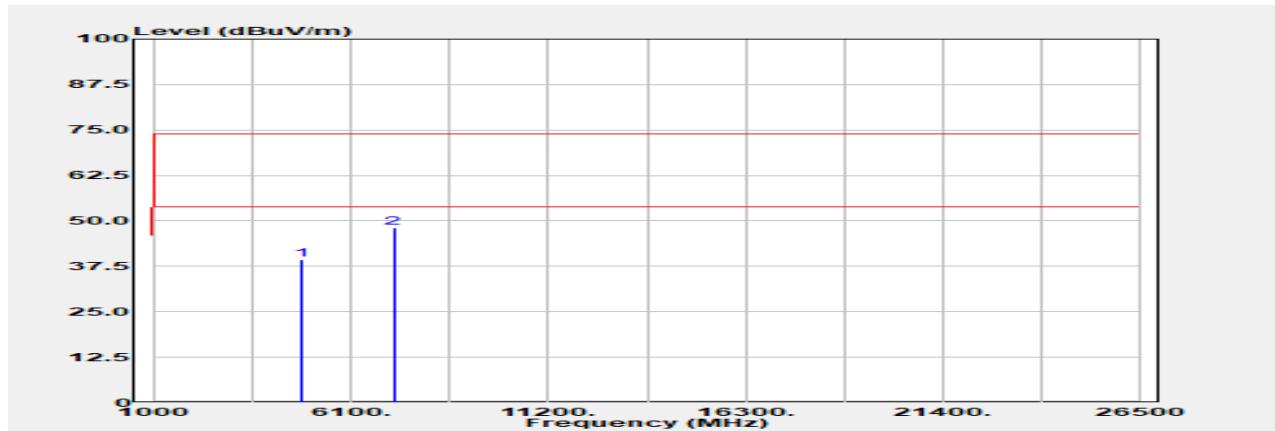
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Report Number :TERF2204000200E2
 Operation Mode :BT EDR 3M
 Test Frequency :2402 MHz
 Test Mode :TX CH LOW
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2022-05-03
 Temp./Humi. :25.6/70
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.000	Peak	29.74	9.50	39.24	74.00	-34.76
7206.000	Peak	30.67	17.49	48.16	74.00	-25.84

Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
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4804.000	Average	39.24	-2.50	36.74	54.00	-17.26
7206.000	Average	48.16	-2.50	45.66	54.00	-8.34

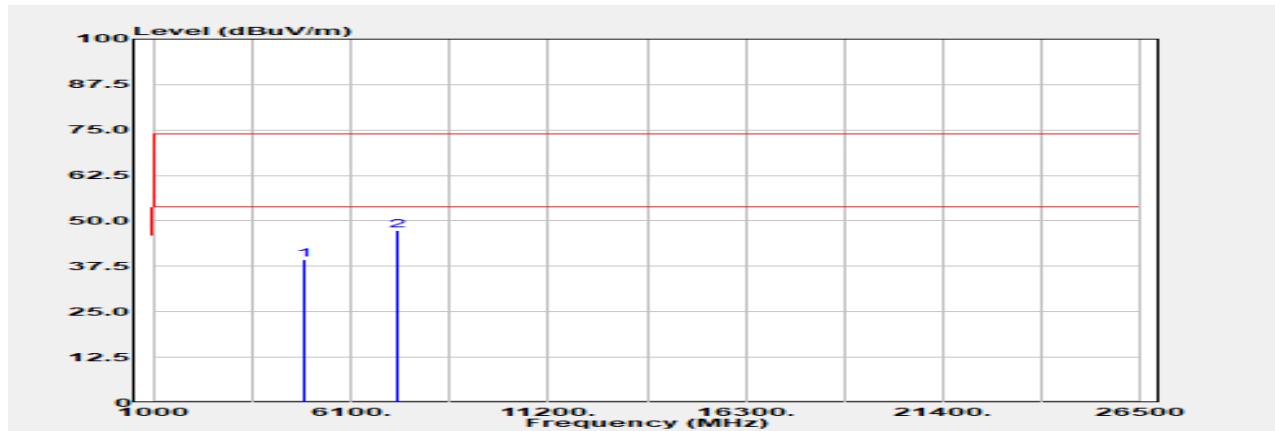
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Report Number :TERF2204000200E2
Operation Mode :BT EDR 3M
Test Frequency :2441 MHz
Test Mode :TX CH MID
EUT Pol :E1 Plane

Test Site :SAC C
Test Date :2022-05-03
Temp./Humi. :25.6/70
Antenna Pol. :Vertical
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4882.000	Peak	30.10	9.28	39.38	74.00	-34.62
7323.000	Peak	29.31	18.02	47.33	74.00	-26.67

Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
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4882.000	Average	39.38	-2.50	36.88	54.00	-17.12
7323.000	Average	47.33	-2.50	44.83	54.00	-9.17

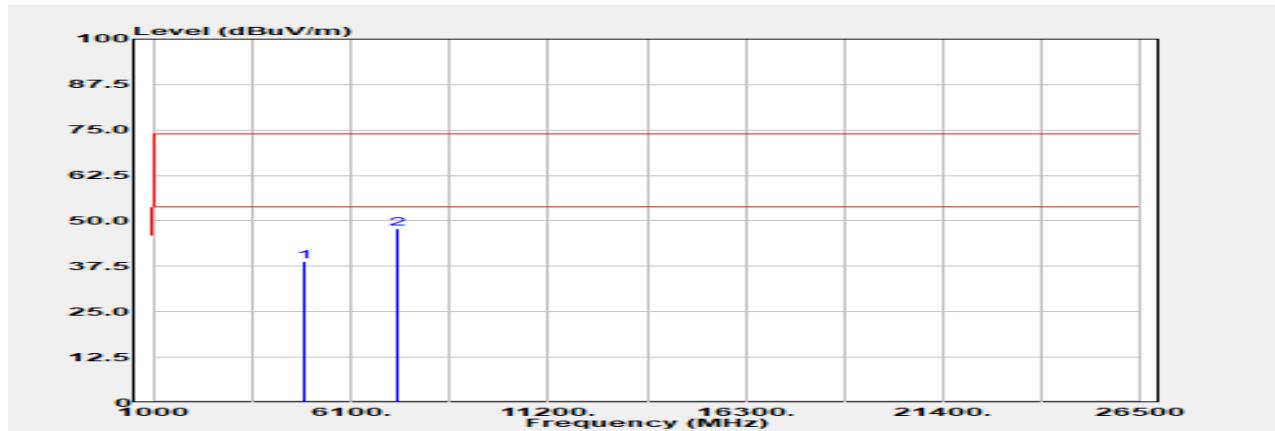
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Report Number :TERF2204000200E2
 Operation Mode :BT EDR 3M
 Test Frequency :2441 MHz
 Test Mode :TX CH MID
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2022-05-03
 Temp./Humi. :25.6/70
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4882.000	Peak	29.61	9.28	38.88	74.00	-35.12
7323.000	Peak	29.93	18.02	47.95	74.00	-26.05

Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4882.000	Average	38.88	-2.50	36.38	54.00	-17.62
7323.000	Average	47.95	-2.50	45.45	54.00	-8.55

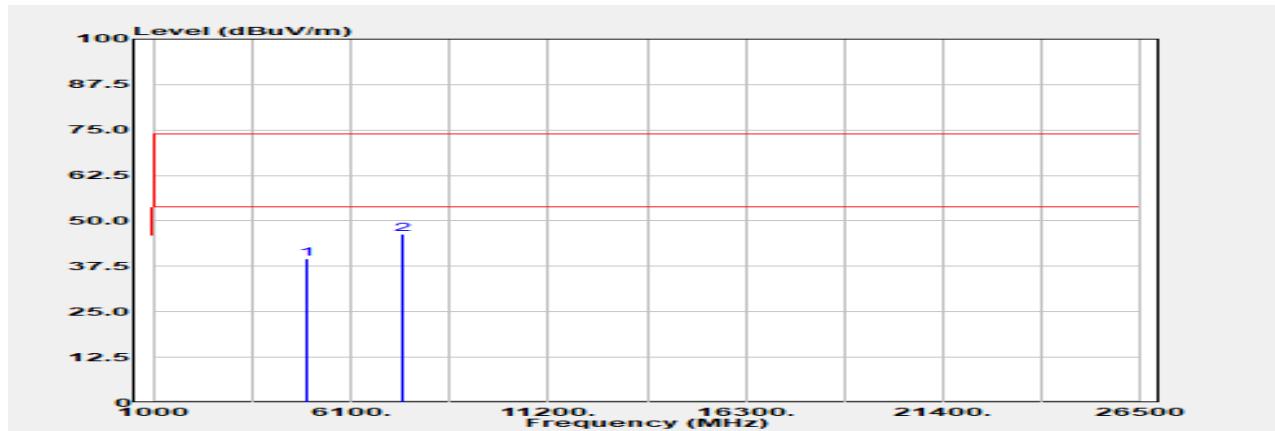
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Report Number :TERF2204000200E2
 Operation Mode :BT EDR 3M
 Test Frequency :2480 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2022-05-03
 Temp./Humi. :25.6/70
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Peak	29.68	10.03	39.71	74.00	-34.29
7440.000	Peak	28.16	18.23	46.39	74.00	-27.61

Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
--------------	------------------------	-------------------------------------	------------------------------	------------------------------	---------------------------------	----------------

4960.000	Average	39.71	-2.50	37.21	54.00	-16.79
7440.000	Average	46.39	-2.50	43.89	54.00	-10.11

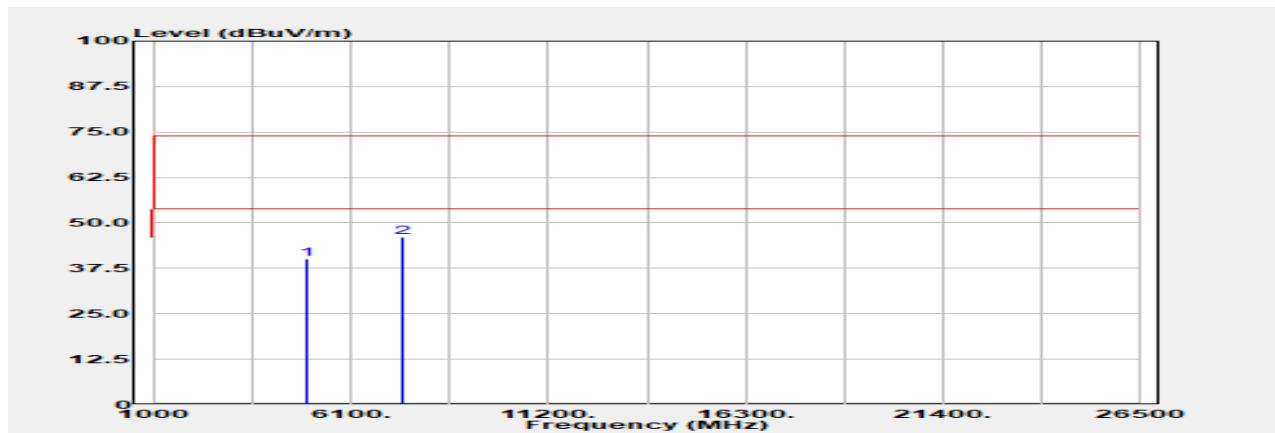
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Report Number :TERF2204000200E2
 Operation Mode :BT EDR 3M
 Test Frequency :2480 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2022-05-03
 Temp./Humi. :25.6/70
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Peak	30.19	10.03	40.22	74.00	-33.78
7440.000	Peak	27.91	18.23	46.14	74.00	-27.86

Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
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4960.000	Average	40.22	-2.50	37.72	54.00	-16.28
7440.000	Average	46.14	-2.50	43.64	54.00	-10.36

~ End of Report ~

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