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ELECTROMAGNETIC EMISSIONS COMPLIANCE TEST REPORT





Applicant: Framework Computer Inc

447 Sutter St, PMB 135, San Francisco, CA, 94108-4618,

United States

Product Name: Intel WiFi 6E AX210 Module

Brand Name: Framework Model No.: AX210NGW

Model Difference: N/A

Report Number: TERF2212002773ER

FCC ID 2AZR6-FRANBBAT12

IC: 27217-FRANBBAT12

Issue Date: January 31, 2023

December 19, 2022~January 04, 2023 Date of Test:

Date of EUT Received: December 16, 2022

Approved By

Blue Yana

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		
TERF2212002773ER	00	Original.	January 31, 2023	Susan Lin			

Note:

1 . The remark "*" indicates modification of the report upon requests from certification body.

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GENERAL INFORMATION

1.1 Product description

Product Name of Host:	Portable Computer
Brand Name of Host:	Framework
Model No. of Host:	FRANPE0000
Model Difference:	N/A
Hardware Version:	N/A
Firmware Version:	N/A
Model No. of BT/WLAN Module:	AX210NGW
Scope:	AX210NGW INSTALLED IN Notebook Computer
Class II & Class IV Permissive change:	The test report covers the radiated emissions requirements of the standards referenced in the report to allow system level approval of the module in this specific host.
EUT Series No.:	00330-80000-00000-AA507
Power Supply:	15.4V DC from rechargeable Li-ion battery or 5.0V=3.0A 15.0W, 9.0V=3.0A 27.0W, 15.0V=3.0A 45.0W, 20.0V=3.0A 60.0W from adapter.
Test Software (Name/Version):	DRTU.02999.22.180.0

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1.2 RF Specification

Wi-Fi 802.11	Frequency Range	Channels	Modulation Technology
b			DSSS
g	2412-2462	11	
n_HT20 ax_HE20			OFDM
n_HT40 ax HE40	2422-2452	7	
Modulation type:		CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM 1024QAM for OFDMA in 802.11ax only	
Transistion Rate:		802.11 n_20MH 802.11 n_40MH 802.11 ax_HE2	5/11 Mbps 2/18/24/36/48/54 Mbps lz: 6.5 – 144.4Mbps lz: 13.5 – 300.0Mbps 0MHz: 8 –286.8 Mbps 0MHz: 16 -573.6 Mbps

1.3 Antenna Designation

Antenna Type	Brand	Main / Aux	Antenna Part No.	Freq.	Peak Antenna Gain (dBi)
PIFA	010/0 NI	Main	AYF6Y-200005	2.4GHz	2.72
FIFA	AWAN Aux (DC33002SE00)		(DC33002SE00)	2.4GHz	1.62

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^{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.



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1.4 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 DTS Meas. Guidance v05r02

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

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

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 are no special accessories used while test was conducted.

1.7 Equipment Modifications

There was no modification incorporated into the EUT.

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SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 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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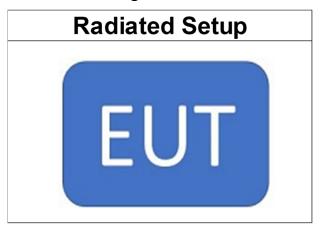
2.4 Measurement Results Explanation Example

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-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



2.6 Control Unit(s)

Radiated Emission Test Site: SAC 1							
EQUIPMENT TYPE MFR MODEL NUMBER SERIAL NUMBER LAST CAL. CAL DUE.							
Test Software	Audix	e3	Ver. 9.210322	N.C.R	N.C.R		

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3 SUMMARY OF TEST RESULTS

FCC Rules	ISED Rules	Description Of Test	Result
§15.247(d) §15.209	RSS-247 §5.5 RSS-Gen §8.9 RSS-Gen §8.10 RSS-Gen §6.13	Radiated Spurious Emission	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

13 channels are provided for 802.11b/g/n/ax 20M.

CHANNEL	FREQUENCY
CHAINNEL	(MHz)
1	2412
2	2417
3	2422
4	2427
5	2432
6	2437
7	2442
8	2447
9	2452
10	2457
11	2462
12	2467
13	2472

11 channels are provided for 802.11n/ax 40M

CHANNEL	FREQUENCY (MHz)
3	2422
4	2427
5	2432
6	2437
7	2442
8	2447
9	2452
10	2457
11	2462

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4.2 The Worst Test Modes and Channel Details

- 1. The EUT has been tested under operating condition.
- 2. aTest program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
- 3. Investigation has been done on all the possible configurations for searching the worst case.

The given UE is pre-scanned among below modes.

Modulation	Transmission Chain			Multiple Transmission Spatial	
⊠ 802.11 b	⊠ Ch0	⊠ Ch1	□ Ch2	☐ Ch3	☐ 2TX
⊠ 802.11 g	⊠ Ch0	⊠ Ch1	☐ Ch2	□ Ch3	□ 2TX
⊠ 802.11 n	⊠ Ch0	⊠ Ch1	☐ Ch2	□ Ch3	⊠ MIMO
⊠ 802.11 ax	⊠ Ch0	⊠ Ch1	□ Ch2	☐ Ch3	⊠ MIMO

4. Therefore, below summary is the modes of test configuration that yield the highest reading and generate the highest emission chosen to carry out the relevantly mandatory test items.

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4.3 Radiated Emission Test:

RADIATED EMISSION TEST (BELOW 1 GHz)							
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATIO N	DATA RATE (Mbps)	ANTENNA PORT		
802.11g	1 to 13	7	OFDM	6	ch0		

RADIATED EMISSION TEST (ABOVE 1 GHz)									
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATIO N	DATA RATE (Mbps)	ANTENNA PORT				
802.11b	1 to 13	1,7,11,12,13	DSSS	1	ch0				
802.11g	1 to 13	1,7,11,12,13	OFDM	6	ch0				
802.11n (HT20)	1 to 13	1,7,11,12,13	OFDM	MCS0	2TX				
802.11n (HT40)	3 to 11	3,7,9,10,11	OFDM	MCS0	2TX				
802.11ax (HE20)	1 to 13	1,7,11,12,13	OFDMA	MCS0	2TX				
802.11ax (HE40)	3 to 11	3,7,9,10,11	OFDMA	MCS0	2TX				

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MEASUREMENT UNCERTAINTY

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

Note:

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

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RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

6.1 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 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.

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

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6.2 Measurement Equipment Used

	Radiated Emission Test Site: SAC 1								
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.				
Bi-log Antenna	SCHWARZBECK	VULB9168	378	08/15/2022	08/14/2023				
Horn Antenna	SCHWARZBECK	BBHA9120D	1441	09/27/2022	09/26/2023				
Horn Antenna	SCHWARZBECK	BBHA9170	184	12/30/2022	12/29/2023				
Site Cal	SGS	SAC 1	N/A	01/01/2023	12/31/2023				
Loop Antenna	ETS.LINDGREN	6502	148045	10/05/2022	10/04/2023				
Spectrum Analyzer	Agilent	E4446A	MY51100003	10/28/2022	10/27/2023				
EMI Test Receiver	R&S	ESCI 7	100759	08/22/2022	08/21/2023				
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2022	10/26/2023				
Pre-Amplifier	HP	8449B	3008A01973	12/13/2022	12/12/2023				
Pre-Amplifier	HP	8447D	2944A09469	12/13/2022	12/12/2023				
Bandreject Filter 2400-2483.5	EWT	EWT-14-0166	M1	12/13/2022	12/12/2023				
3.2GHz High Pass Filter	WI	WHKX10-2624-80SS	3	12/13/2022	12/12/2023				
Coaxial Cable	Huber Suhner	succoflex 102	MY2622/2	12/13/2022	12/12/2023				
Coaxial Cable	Huber Suhner	succoflex 104A	800086/4a	12/13/2022	12/12/2023				
Coaxial Cable	Huber Suhner	EMC 104-SM-SM-2000	160123	12/13/2022	12/12/2023				
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2630/2	12/13/2022	12/12/2023				
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY22962/2	12/13/2022	12/12/2023				

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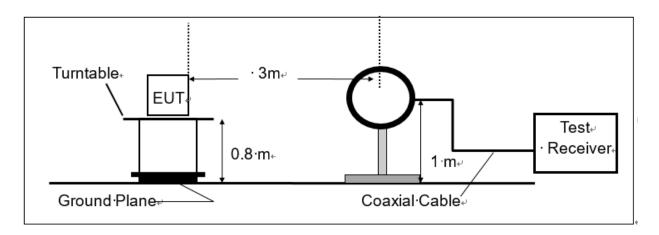
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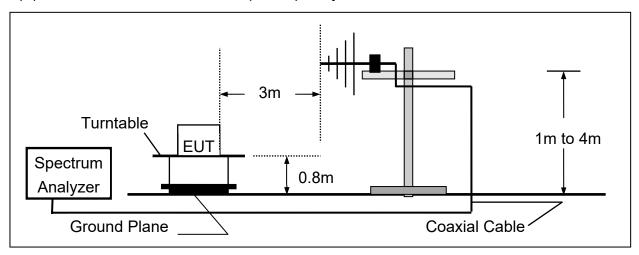
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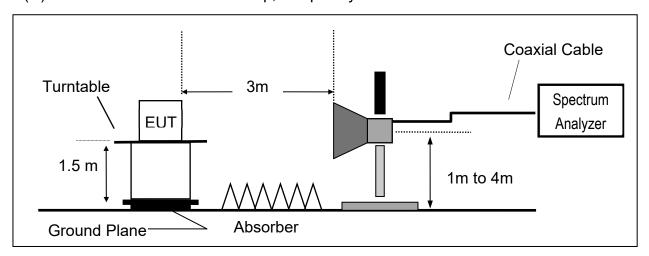
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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6.4 Measurement Procedure

- The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 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.
- 7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Maximum Emission Measurements at frequency above 1 GHz.
- 8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Emission Measurements at frequency above 1 GHz.
- 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.

6.5 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)

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

6.6 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.

6.7 Measurement Result

Note:

- 1. Refer to next page spectrum analyzer data chart and tabular data sheets.
- Measurements are completed at peak and average level, the mark of average is the highest emission in restricted bands

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6.7.1 Spurious Emission:

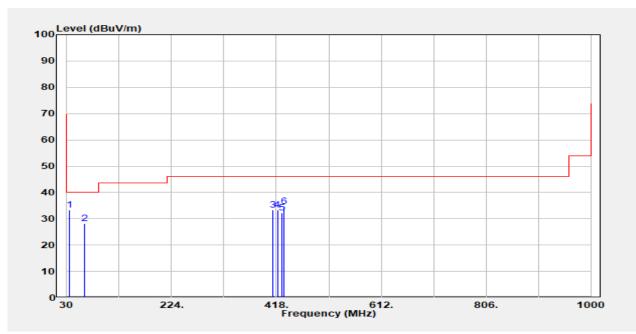
Report Number :TERF2212002773ER Test Site :SAC 1

Operation Mode :802.11g Test Date :2023-01-04

Test Frequency :2442 MHz Temp./Humi. :24.1/62

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :NB Plane Engineer :GN Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
34.85	Peak	41.27	-7.87	33.40	40.00	-6.60
62.98	Peak	46.67	-18.35	28.32	40.00	-11.68
412.18	Peak	39.69	-6.28	33.41	46.00	-12.59
419.94	Peak	39.46	-6.17	33.29	46.00	-12.71
428.67	Peak	38.77	-6.64	32.13	46.00	-13.87
432.55	Peak	41.25	-6.48	34.77	46.00	-11.23

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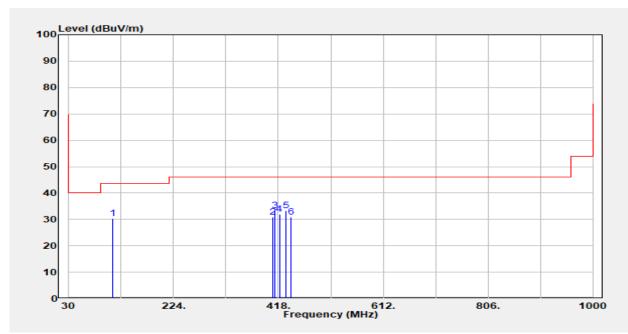
Report Number :TERF2212002773ER **Test Site** :SAC 1

Operation Mode Test Date :2023-01-04 :802.11g

Test Frequency :2442 MHz Temp./Humi. :24.1/62

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :GN Lin :NB Plane Engineer



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
110.51	Peak	42.54	-12.13	30.41	43.50	-13.09
407.33	Peak	37.35	-6.33	31.02	46.00	-14.98
412.18	Peak	39.60	-6.28	33.32	46.00	-12.68
419.94	Peak	38.21	-6.17	32.04	46.00	-13.96
432.55	Peak	39.86	-6.48	33.39	46.00	-12.61
441.28	Peak	37.21	-6.40	30.81	46.00	-15.19

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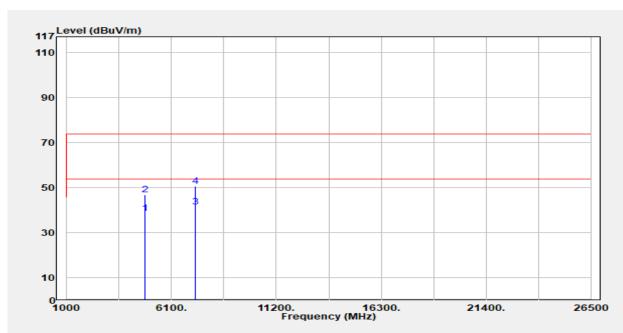
Report Number :TERF2212002773ER **Test Site** :SAC 1

Operation Mode :802.11b **Test Date** :2023-01-04

Test Frequency Temp./Humi. :2412 MHz :24.1/62

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :GN Lin :NB Plane Engineer



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
		•		'	•	
4824.00	Average	30.68	7.95	38.63	54.00	-15.37
4824.00	Peak	38.98	7.95	46.93	74.00	-27.07
7236.00	Average	26.49	15.18	41.67	54.00	-12.33
7236.00	Peak	35.65	15.18	50.84	74.00	-23.16

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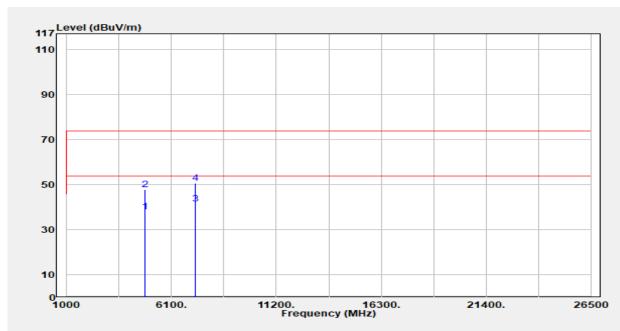
Report Number :TERF2212002773ER Test Site :SAC 1

Operation Mode :802.11b Test Date :2023-01-04

Test Frequency :2412 MHz Temp./Humi. :24.1/62

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :NB Plane Engineer :GN Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
						_
4824.00	Average	30.08	7.95	38.03	54.00	-15.97
4824.00	Peak	39.91	7.95	47.86	74.00	-26.14
7236.00	Average	26.44	15.18	41.62	54.00	-12.38
7236.00	Peak	35.69	15.18	50.87	74.00	-23.13

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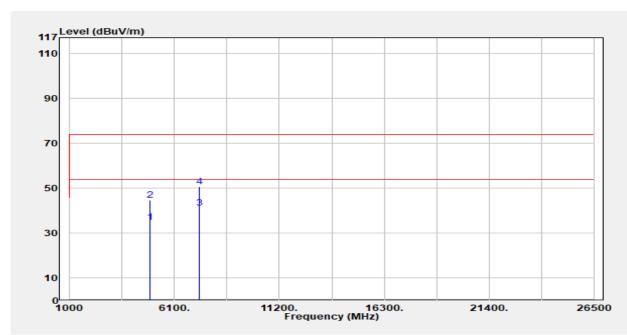
Report Number :TERF2212002773ER **Test Site** :SAC 1

:2023-01-04 **Operation Mode** :802.11b **Test Date**

Test Frequency :2442 MHz Temp./Humi. :24.1/62

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :GN Lin :NB Plane Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4884.00	Average	27.09	7.69	34.78	54.00	-19.22
4884.00	Peak	36.92	7.69	44.61	74.00	-29.39
7326.00	Average	26.08	15.14	41.22	54.00	-12.78
7326.00	Peak	35.54	15.14	50.68	74.00	-23.32

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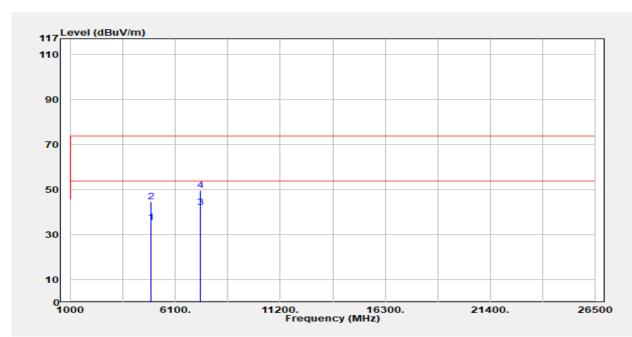
Report Number :TERF2212002773ER **Test Site** :SAC 1

Operation Mode :802.11b **Test Date** :2023-01-04

Test Frequency :2442 MHz Temp./Humi. :24.1/62

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :GN Lin :NB Plane Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
4884.00	Average	27.86	7.69	35.54	54.00	-18.46
4884.00	Peak	36.89	7.69	44.57	74.00	-29.43
7326.00	Average	27.06	15.14	42.21	54.00	-11.79
7326.00	Peak	34.78	15.14	49.92	74.00	-24.08

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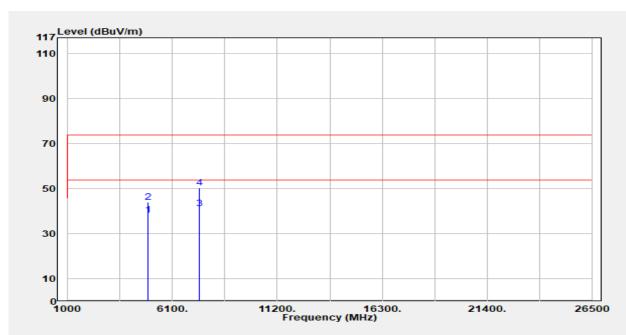
Report Number :TERF2212002773ER **Test Site** :SAC 1

Operation Mode :802.11b **Test Date** :2023-01-04

Test Frequency :2462 MHz Temp./Humi. :24.1/62

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :GN Lin :NB Plane Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4924.00	Average	30.54	7.83	38.37	54.00	-15.63
4924.00	Peak	36.22	7.83	44.05	74.00	-29.95
7386.00	Average	25.82	15.33	41.15	54.00	-12.85
7386.00	Peak	35.20	15.33	50.53	74.00	-23.47

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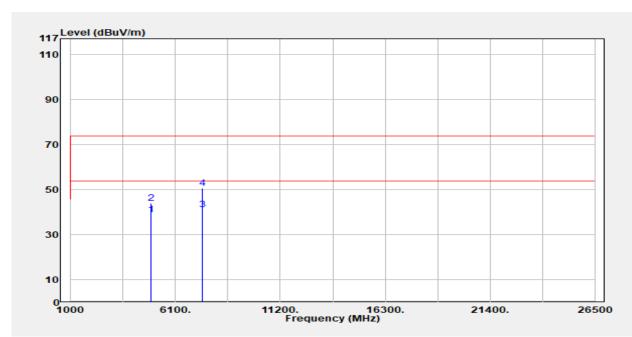
Report Number :TERF2212002773ER **Test Site** :SAC 1

:2023-01-04 **Operation Mode** :802.11b **Test Date**

Test Frequency :2462 MHz Temp./Humi. :24.1/62

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :GN Lin :NB Plane Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
4924.00	Average	31.30	7.83	39.13	54.00	-14.87
4924.00	Peak	36.32	7.83	44.15	74.00	-29.85
7386.00	Average	25.89	15.33	41.22	54.00	-12.78
7386.00	Peak	35.34	15.33	50.67	74.00	-23.33

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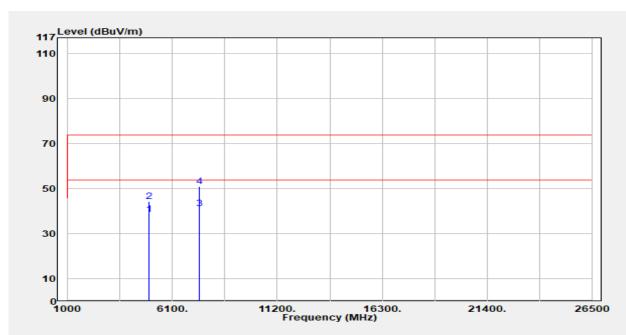
Report Number :TERF2212002773ER **Test Site** :SAC 1

Operation Mode :802.11b **Test Date** :2023-01-04

Test Frequency :2467 MHz Temp./Humi. :24.1/62

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :GN Lin :NB Plane Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
4934.00	Average	30.50	8.07	38.57	54.00	-15.43
4934.00	Peak	36.24	8.07	44.31	74.00	-29.69
7401.00	Average	25.99	15.22	41.21	54.00	-12.79
7401.00	Peak	35.72	15.22	50.93	74.00	-23.07

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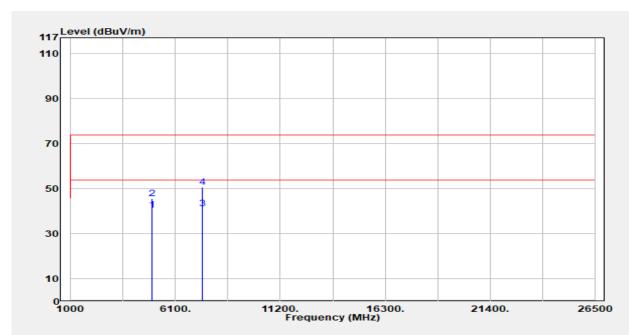
Report Number :TERF2212002773ER **Test Site** :SAC 1

:2023-01-04 **Operation Mode** :802.11b **Test Date**

Test Frequency :2467 MHz Temp./Humi. :24.1/62

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :GN Lin :NB Plane Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4934.00	Average	32.41	8.07	40.48	54.00	-13.52
4934.00	Peak	37.60	8.07	45.66	74.00	-28.34
7401.00	Average	26.08	15.22	41.30	54.00	-12.70
7401.00	Peak	35.42	15.22	50.64	74.00	-23.36

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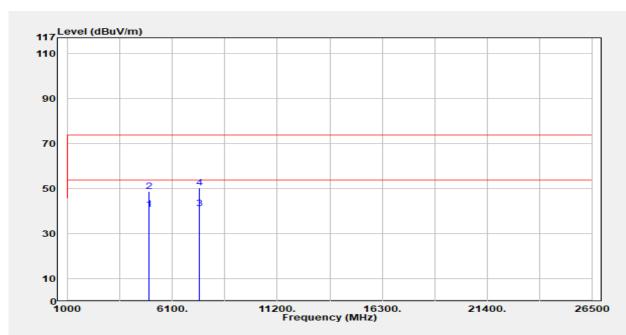
Report Number :TERF2212002773ER **Test Site** :SAC 1

:2023-01-04 **Operation Mode** :802.11b **Test Date**

Test Frequency :2472 MHz Temp./Humi. :24.1/62

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :GN Lin :NB Plane Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
						_
4944.00	Average	32.48	8.42	40.90	54.00	-13.10
4944.00	Peak	40.45	8.42	48.87	74.00	-25.13
7416.00	Average	26.03	15.15	41.18	54.00	-12.82
7416.00	Peak	35.42	15.15	50.57	74.00	-23.43

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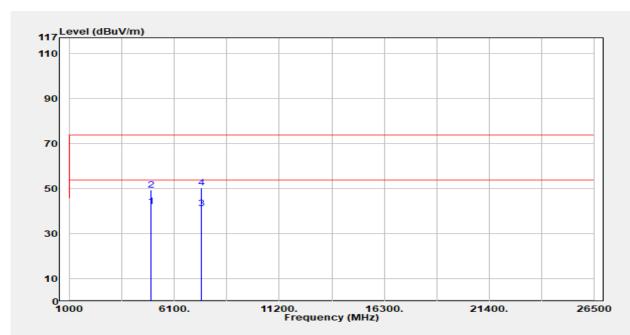
Report Number :TERF2212002773ER **Test Site** :SAC 1

:2023-01-04 **Operation Mode** :802.11b **Test Date**

Test Frequency :2472 MHz Temp./Humi. :24.1/62

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :GN Lin :NB Plane Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4944.00	Average	33.79	8.42	42.21	54.00	-11.79
4944.00	Peak	40.99	8.42	49.41	74.00	-24.59
7416.00	Average	25.98	15.15	41.13	54.00	-12.87
7416.00	Peak	35.13	15.15	50.28	74.00	-23.72

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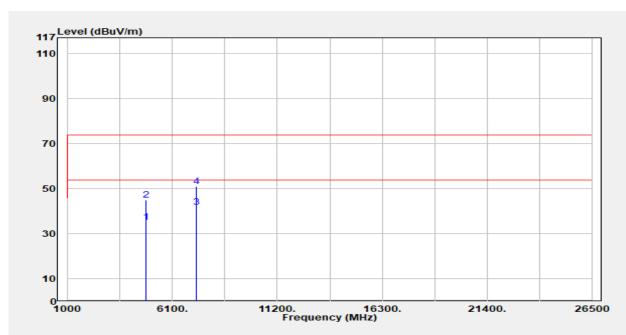
Report Number :TERF2212002773ER **Test Site** :SAC 1

Operation Mode Test Date :2023-01-04 :802.11g

Test Frequency :2412 MHz Temp./Humi. :24.1/62

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :GN Lin :NB Plane Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4824.00	Average	27.34	7.95	35.29	54.00	-18.71
4824.00	Peak	37.06	7.95	45.01	74.00	-28.99
7236.00	Average	26.54	15.18	41.72	54.00	-12.28
7236.00	Peak	35.72	15.18	50.90	74.00	-23.10

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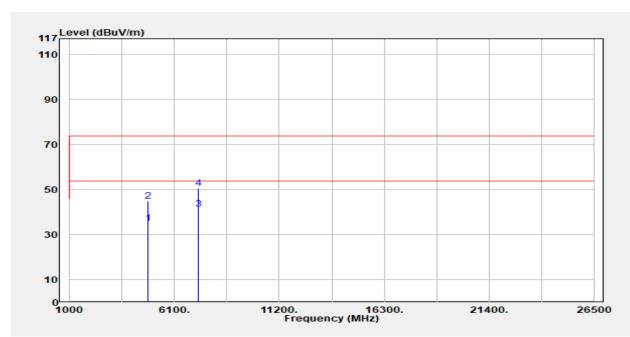
Report Number :TERF2212002773ER **Test Site** :SAC 1

:2023-01-04 **Operation Mode Test Date** :802.11g

Test Frequency :2412 MHz Temp./Humi. :24.1/62

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :GN Lin :NB Plane Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
4824.00	Average	27.28	7.95	35.23	54.00	-18.77
4824.00	Peak	37.11	7.95	45.05	74.00	-28.95
7236.00	Average	26.43	15.18	41.61	54.00	-12.39
7236.00	Peak	35.54	15.18	50.72	74.00	-23.28

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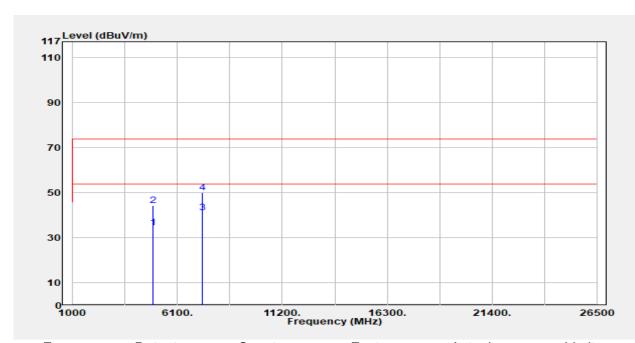
Report Number :TERF2212002773ER Test Site :SAC 1

Operation Mode :802.11g Test Date :2023-01-04

Test Frequency :2442 MHz Temp./Humi. :24.1/62

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :NB Plane Engineer :GN Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4884.00	Average	26.97	7.69	34.65	54.00	-19.35
4884.00	Peak	36.69	7.69	44.38	74.00	-29.62
7326.00	Average	26.17	15.14	41.32	54.00	-12.68
7326.00	Peak	35.04	15.14	50.18	74.00	-23.82

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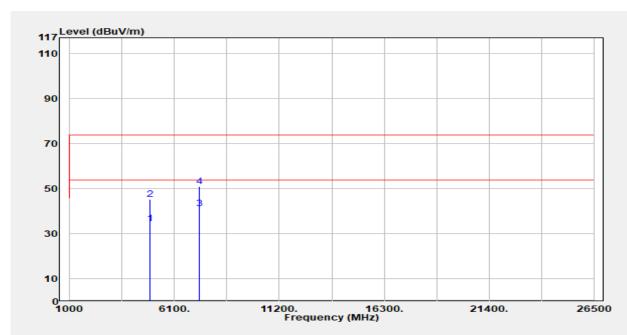
Report Number **Test Site** :SAC 1 :TERF2212002773ER

Operation Mode Test Date :2023-01-04 :802.11g

Test Frequency :2442 MHz Temp./Humi. :24.1/62

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :GN Lin :NB Plane Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4884.00	Average	26.95	7.69	34.63	54.00	-19.37
4884.00	Peak	37.52	7.69	45.21	74.00	-28.79
7326.00	Average	26.12	15.14	41.27	54.00	-12.73
7326.00	Peak	35.77	15.14	50.92	74.00	-23.08

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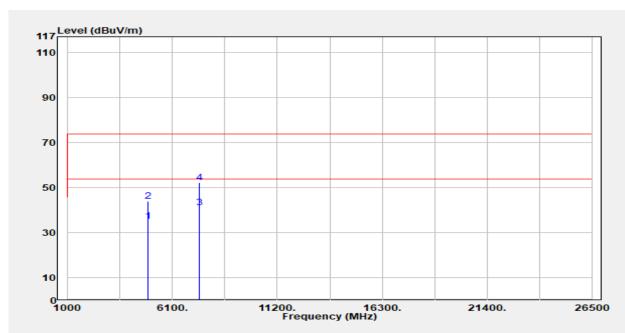
Report Number :TERF2212002773ER Test Site :SAC 1

Operation Mode :802.11g Test Date :2023-01-04

Test Frequency :2462 MHz Temp./Humi. :24.1/62

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :NB Plane Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
-		I .				
4924.00	Average	27.32	7.83	35.15	54.00	-18.85
4924.00	Peak	36.35	7.83	44.18	74.00	-29.82
7386.00	Average	25.84	15.33	41.17	54.00	-12.83
7386.00	Peak	36.85	15.33	52.19	74.00	-21.81

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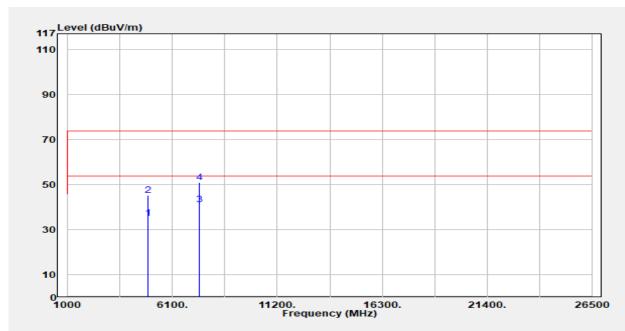
Report Number :TERF2212002773ER Test Site :SAC 1

Operation Mode :802.11g Test Date :2023-01-04

Test Frequency :2462 MHz Temp./Humi. :24.1/62

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :NB Plane Engineer :GN Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4924.00	Average	27.35	7.83	35.18	54.00	-18.82
4924.00	Peak	37.60	7.83	45.43	74.00	-28.57
7386.00	Average	25.89	15.33	41.22	54.00	-12.78
7386.00	Peak	35.68	15.33	51.02	74.00	-22.98

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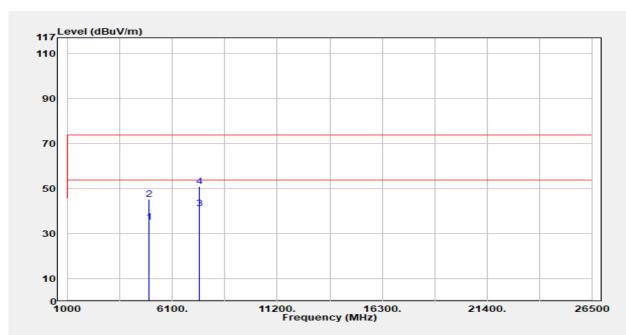
Report Number **Test Site** :SAC 1 :TERF2212002773ER

Operation Mode Test Date :2023-01-04 :802.11g

Test Frequency :2467 MHz Temp./Humi. :24.1/62

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :GN Lin :NB Plane Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
4934.00	Average	27.05	8.07	35.12	54.00	-18.88
4934.00	Peak	37.13	8.07	45.20	74.00	-28.80
7401.00	Average	25.88	15.22	41.10	54.00	-12.90
7401.00	Peak	35.95	15.22	51.17	74.00	-22.83

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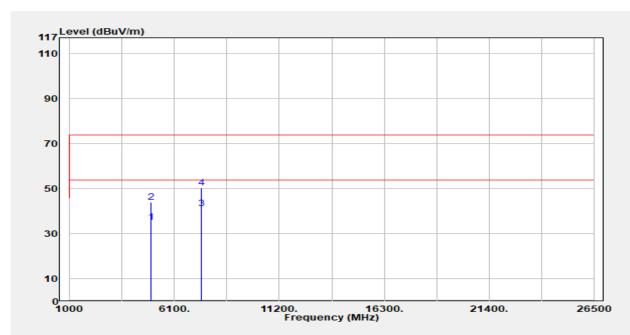
Report Number **Test Site** :SAC 1 :TERF2212002773ER

:2023-01-04 **Operation Mode Test Date** :802.11g

Test Frequency :2467 MHz Temp./Humi. :24.1/62

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :GN Lin :NB Plane Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4934.00	Average	27.25	8.07	35.32	54.00	-18.68
4934.00	Peak	36.14	8.07	44.21	74.00	-29.79
7401.00	Average	25.95	15.22	41.17	54.00	-12.83
7401.00	Peak	35.33	15.22	50.54	74.00	-23.46

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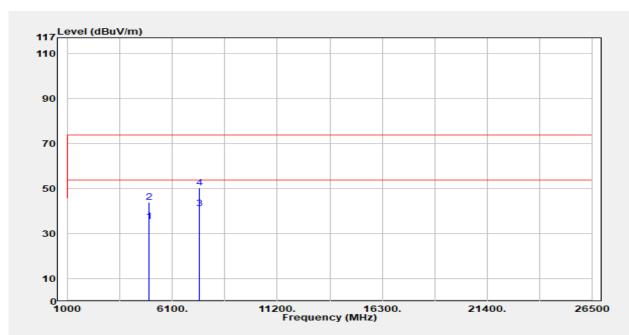
Report Number **Test Site** :SAC 1 :TERF2212002773ER

Operation Mode Test Date :2023-01-04 :802.11g

Test Frequency :2472 MHz Temp./Humi. :24.1/62

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :GN Lin :NB Plane Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4944.00	Average	27.02	8.42	35.44	54.00	-18.56
4944.00	Peak	35.68	8.42	44.10	74.00	-29.90
7416.00	Average	26.00	15.15	41.15	54.00	-12.85
7416.00	Peak	35.14	15.15	50.29	74.00	-23.71

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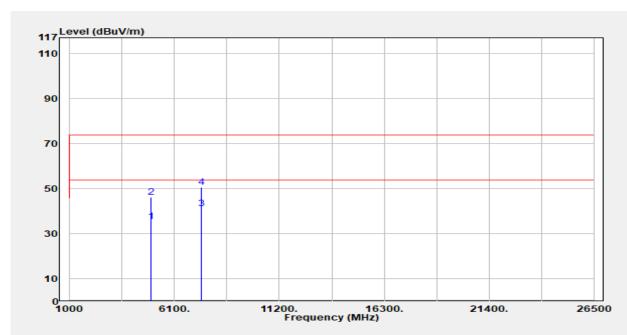
Report Number **Test Site** :SAC 1 :TERF2212002773ER

Operation Mode Test Date :2023-01-04 :802.11g

Test Frequency :2472 MHz Temp./Humi. :24.1/62

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :GN Lin :NB Plane Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4944.00	Average	27.18	8.42	35.60	54.00	-18.40
4944.00	Peak	37.78	8.42	46.19	74.00	-27.81
7416.00	Average	26.07	15.15	41.22	54.00	-12.78
7416.00	Peak	35.43	15.15	50.58	74.00	-23.42

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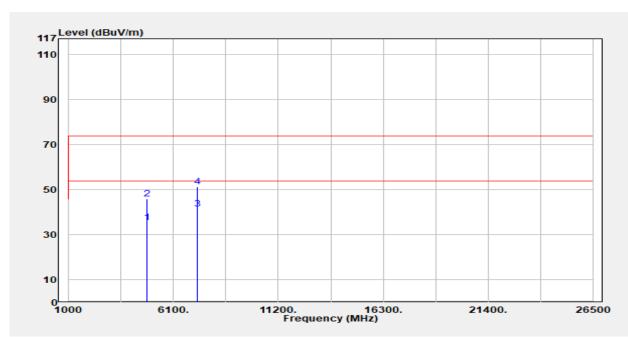
Report Number :TERF2212002773ER Test Site :SAC 1

Operation Mode :802.11n20 Test Date :2023-01-04

Test Frequency :2412 MHz Temp./Humi. :24.1/62

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :NB Plane Engineer :GN Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
						_
4824.00	Average	27.46	7.95	35.41	54.00	-18.59
4824.00	Peak	38.02	7.95	45.97	74.00	-28.03
7236.00	Average	26.46	15.18	41.64	54.00	-12.36
7236.00	Peak	36.14	15.18	51.32	74.00	-22.68

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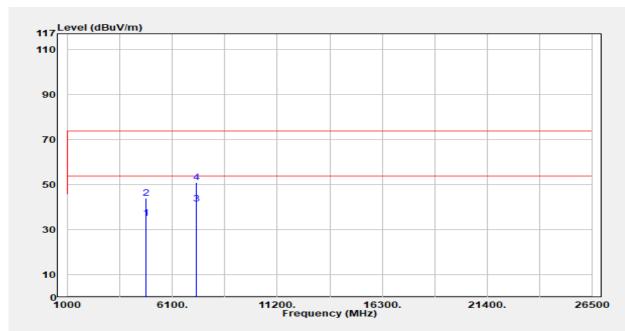
Report Number **Test Site** :SAC 1 :TERF2212002773ER

:2023-01-04 **Operation Mode Test Date** :802.11n20

Test Frequency Temp./Humi. :2412 MHz :24.1/62

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :GN Lin :NB Plane Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4824.00	Average	27.26	7.95	35.21	54.00	-18.79
4824.00	Peak	36.23	7.95	44.17	74.00	-29.83
7236.00	Average	26.51	15.18	41.69	54.00	-12.31
7236.00	Peak	35.83	15.18	51.01	74.00	-22.99

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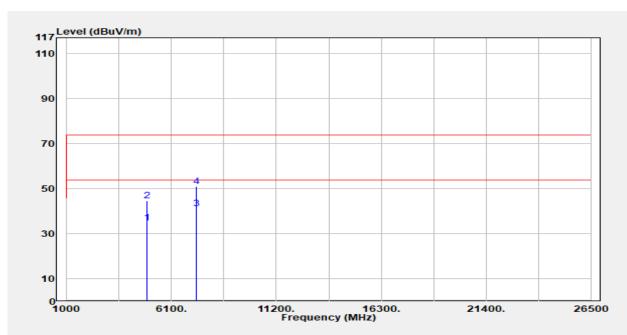
Report Number :TERF2212002773ER Test Site :SAC 1

Operation Mode :802.11n20 Test Date :2023-01-04

Test Frequency :2442 MHz Temp./Humi. :24.1/62

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :NB Plane Engineer :GN Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
4884.00	Average	27.05	7.69	34.73	54.00	-19.27
4884.00	Peak	37.04	7.69	44.72	74.00	-29.28
7326.00	Average	26.18	15.14	41.33	54.00	-12.67
7326.00	Peak	36.05	15.14	51.19	74.00	-22.81

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 No.134,Wu Kung Ro

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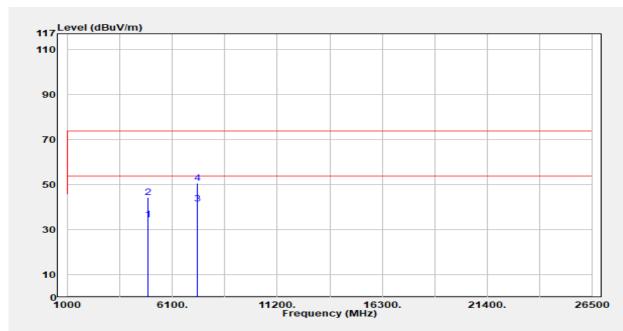
Report Number :TERF2212002773ER Test Site :SAC 1

Operation Mode :802.11n20 Test Date :2023-01-04

Test Frequency :2442 MHz Temp./Humi. :24.1/62

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :NB Plane Engineer :GN Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
						_
4884.00	Average	26.92	7.69	34.60	54.00	-19.40
4884.00	Peak	36.62	7.69	44.31	74.00	-29.69
7326.00	Average	26.24	15.14	41.39	54.00	-12.61
7326.00	Peak	35.73	15.14	50.87	74.00	-23.13

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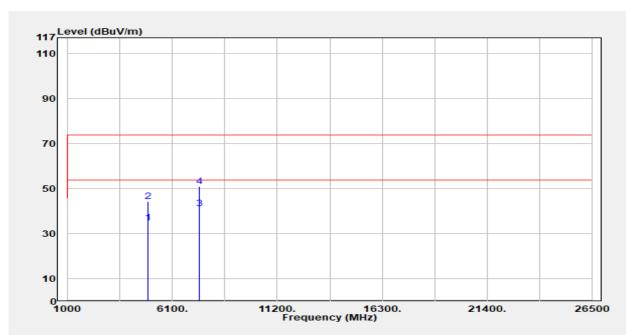
Report Number **Test Site** :SAC 1 :TERF2212002773ER

Operation Mode Test Date :2023-01-04 :802.11n20

Test Frequency :2462 MHz Temp./Humi. :24.1/62

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :GN Lin :NB Plane Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4924.00	Average	27.13	7.83	34.96	54.00	-19.04
4924.00	Peak	36.42	7.83	44.25	74.00	-29.75
7386.00	Average	25.83	15.33	41.16	54.00	-12.84
7386.00	Peak	35.67	15.33	51.00	74.00	-23.00

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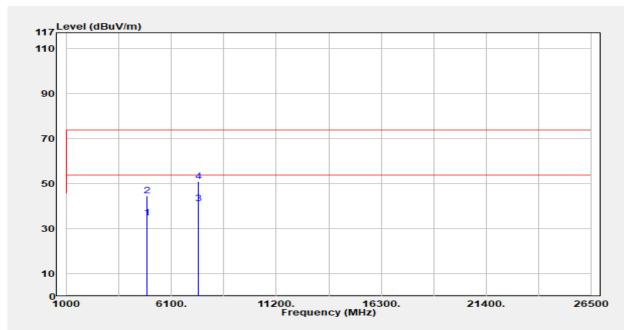
Report Number **Test Site** :SAC 1 :TERF2212002773ER

:2023-01-04 **Operation Mode Test Date** :802.11n20

Test Frequency :2462 MHz Temp./Humi. :24.1/62

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :GN Lin :NB Plane Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
4924.00	Average	27.01	7.83	34.84	54.00	-19.16
4924.00	Peak	36.81	7.83	44.64	74.00	-29.36
7386.00	Average	25.88	15.33	41.21	54.00	-12.79
7386.00	Peak	35.70	15.33	51.03	74.00	-22.97

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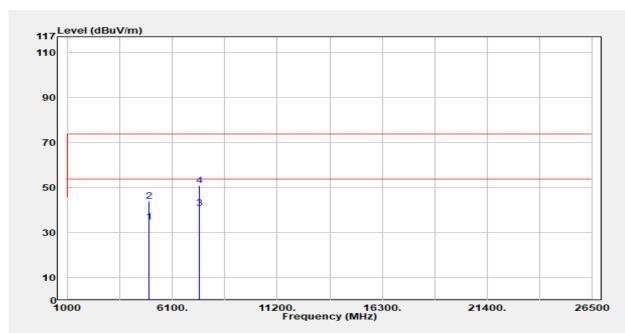
Report Number **Test Site** :SAC 1 :TERF2212002773ER

Operation Mode Test Date :2023-01-04 :802.11n20

Test Frequency Temp./Humi. :2467 MHz :24.1/62

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :GN Lin :NB Plane Engineer



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
		'		•	•	
4934.00	Average	26.84	8.07	34.91	54.00	-19.09
4934.00	Peak	36.02	8.07	44.09	74.00	-29.91
7401.00	Average	25.84	15.22	41.06	54.00	-12.94
7401.00	Peak	35.91	15.22	51.13	74.00	-22.87

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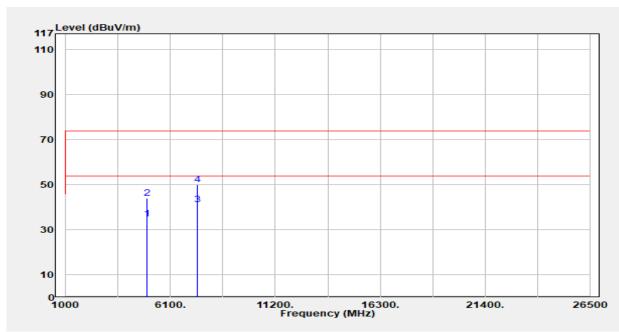
Report Number :TERF2212002773ER Test Site :SAC 1

Operation Mode :802.11n20 Test Date :2023-01-04

Test Frequency :2467 MHz Temp./Humi. :24.1/62

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :NB Plane Engineer :GN Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
4934.00	Average	26.71	8.07	34.78	54.00	-19.22
4934.00	Peak	35.89	8.07	43.96	74.00	-30.04
7401.00	Average	25.88	15.22	41.10	54.00	-12.90
7401.00	Peak	34.80	15.22	50.02	74.00	-23.98

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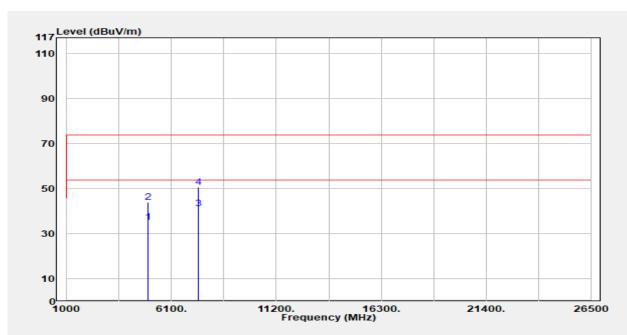
Report Number **Test Site** :SAC 1 :TERF2212002773ER

Operation Mode Test Date :2023-01-04 :802.11n20

Test Frequency Temp./Humi. :2472 MHz :24.1/62

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :GN Lin :NB Plane Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
4944.00	Average	26.87	8.42	35.29	54.00	-18.71
4944.00	Peak	35.79	8.42	44.21	74.00	-29.79
7416.00	Average	26.05	15.15	41.20	54.00	-12.80
7416.00	Peak	35.54	15.15	50.69	74.00	-23.31

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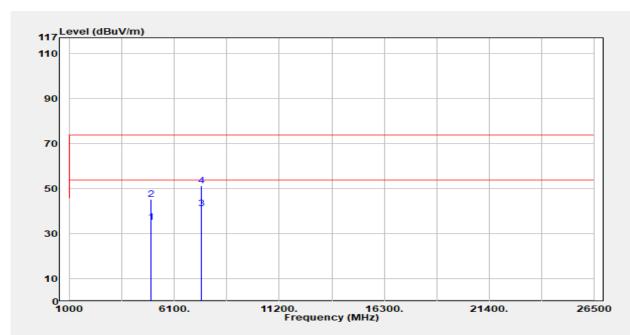
Report Number **Test Site** :SAC 1 :TERF2212002773ER

:2023-01-04 **Operation Mode Test Date** :802.11n20

Test Frequency Temp./Humi. :2472 MHz :24.1/62

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :GN Lin :NB Plane Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4944.00	Average	26.77	8.42	35.19	54.00	-18.81
4944.00	Peak	36.92	8.42	45.34	74.00	-28.66
7416.00	Average	25.97	15.15	41.12	54.00	-12.88
7416.00	Peak	36.19	15.15	51.33	74.00	-22.67

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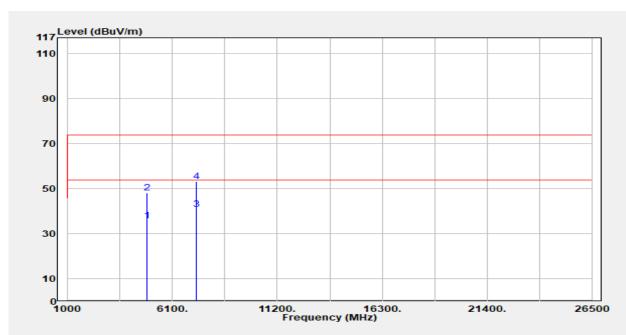
Report Number **Test Site** :SAC 1 :TERF2212002773ER

:802.11n40 **Operation Mode Test Date** :2023-01-04

Test Frequency :2422 MHz Temp./Humi. :24.1/62

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :GN Lin :NB Plane Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
4844.00	Average	27.93	8.03	35.96	54.00	-18.04
4844.00	Peak	40.07	8.03	48.10	74.00	-25.90
7266.00	Average	25.87	15.07	40.94	54.00	-13.06
7266.00	Peak	38.07	15.07	53.14	74.00	-20.86

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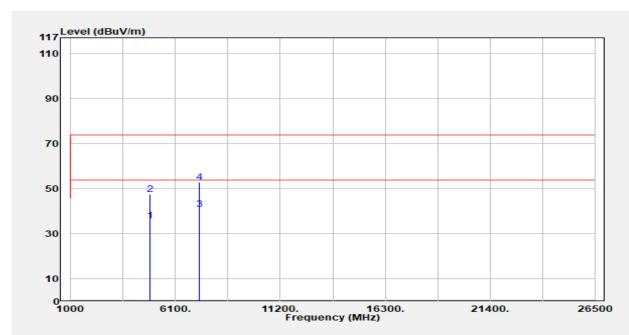
Report Number :TERF2212002773ER Test Site :SAC 1

Operation Mode :802.11n40 Test Date :2023-01-04

Test Frequency :2422 MHz Temp./Humi. :24.1/62

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :NB Plane Engineer :GN Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4844.00	Average	27.86	8.03	35.89	54.00	-18.11
4844.00	Peak	39.57	8.03	47.60	74.00	-26.40
7266.00	Average	25.96	15.07	41.03	54.00	-12.97
7266.00	Peak	37.88	15.07	52.95	74.00	-21.05

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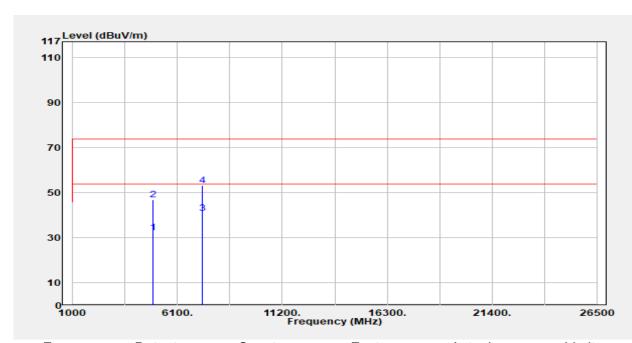
Report Number **Test Site** :SAC 1 :TERF2212002773ER

Operation Mode Test Date :2023-01-04 :802.11n40

Test Frequency Temp./Humi. :2442 MHz :24.1/62

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :NB Plane Engineer :GN Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dΒμV/m	dB
4884.00	Average	24.75	7.69	32.43	54.00	-21.57
4884.00	Peak	39.31	7.69	46.99	74.00	-27.01
7326.00	Average	25.66	15.14	40.81	54.00	-13.19
7326.00	Peak	38.18	15.14	53.33	74.00	-20.67

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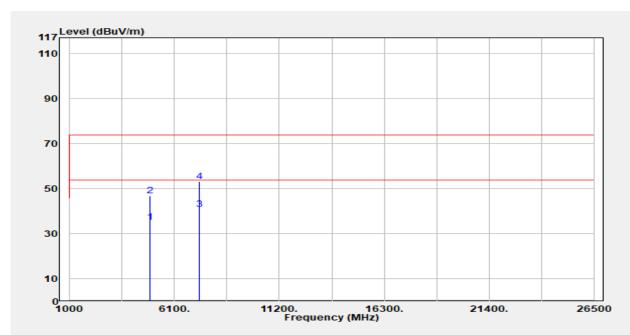
Report Number **Test Site** :SAC 1 :TERF2212002773ER

:2023-01-04 **Operation Mode Test Date** :802.11n40

Test Frequency Temp./Humi. :2442 MHz :24.1/62

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :GN Lin :NB Plane Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4884.00	Average	27.54	7.69	35.22	54.00	-18.78
4884.00	Peak	39.25	7.69	46.93	74.00	-27.07
7326.00	Average	25.79	15.14	40.94	54.00	-13.06
7326.00	Peak	38.06	15.14	53.21	74.00	-20.79

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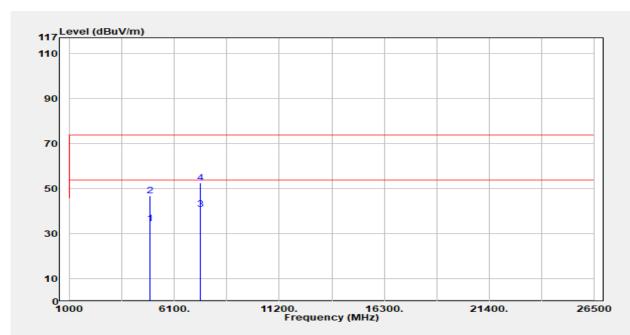
Report Number **Test Site** :SAC 1 :TERF2212002773ER

Operation Mode Test Date :2023-01-04 :802.11n40

Test Frequency Temp./Humi. :2452 MHz :24.1/62

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :GN Lin :NB Plane Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4904.00	Average	26.99	7.60	34.59	54.00	-19.41
4904.00	Peak	39.19	7.60	46.79	74.00	-27.21
7356.00	Average	25.40	15.37	40.77	54.00	-13.23
7356.00	Peak	37.33	15.37	52.70	74.00	-21.30

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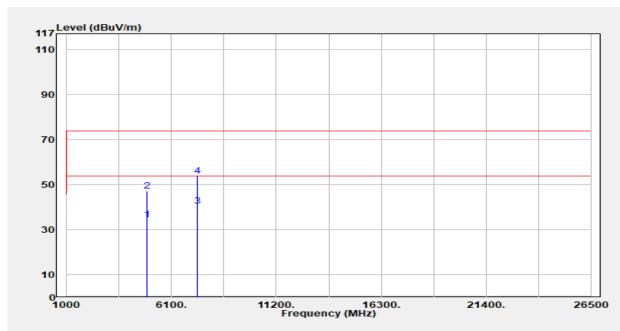
Report Number :TERF2212002773ER Test Site :SAC 1

Operation Mode :802.11n40 Test Date :2023-01-04

Test Frequency :2452 MHz Temp./Humi. :24.1/62

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :NB Plane Engineer :GN Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
						_
4904.00	Average	26.92	7.60	34.52	54.00	-19.48
4904.00	Peak	39.73	7.60	47.33	74.00	-26.67
7356.00	Average	25.36	15.37	40.73	54.00	-13.27
7356.00	Peak	38.40	15.37	53.77	74.00	-20.23

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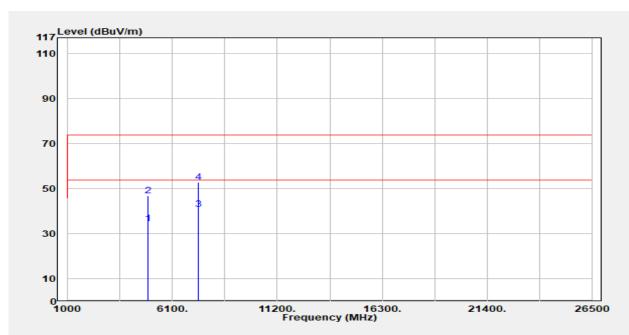
Report Number **Test Site** :SAC 1 :TERF2212002773ER

Operation Mode Test Date :2023-01-04 :802.11n40

Test Frequency Temp./Humi. :2457 MHz :24.1/62

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :GN Lin :NB Plane Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4914.00	Average	26.86	7.71	34.57	54.00	-19.43
4914.00	Peak	39.07	7.71	46.78	74.00	-27.22
7371.00	Average	25.40	15.44	40.84	54.00	-13.16
7371.00	Peak	37.50	15.44	52.94	74.00	-21.06

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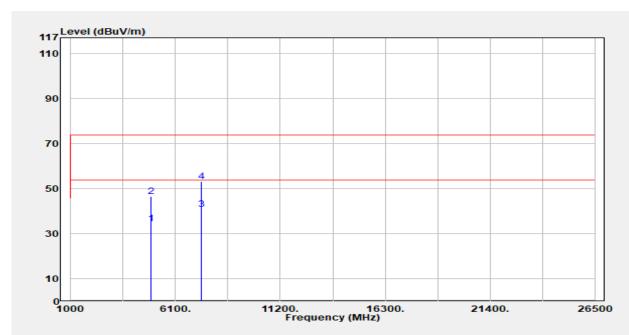
Report Number **Test Site** :SAC 1 :TERF2212002773ER

:2023-01-04 **Operation Mode Test Date** :802.11n40

Test Frequency Temp./Humi. :2457 MHz :24.1/62

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :GN Lin :NB Plane Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4914.00	Average	26.80	7.71	34.51	54.00	-19.49
4914.00	Peak	39.01	7.71	46.72	74.00	-27.28
7371.00	Average	25.34	15.44	40.78	54.00	-13.22
7371.00	Peak	37.95	15.44	53.39	74.00	-20.61

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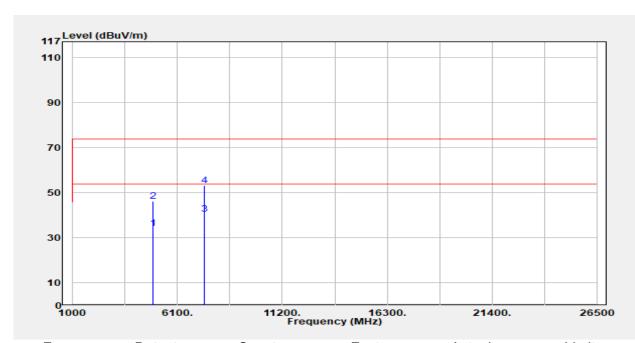
Report Number :TERF2212002773ER Test Site :SAC 1

Operation Mode :802.11n40 Test Date :2023-01-04

Test Frequency :2462 MHz Temp./Humi. :24.1/62

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :NB Plane Engineer :GN Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4924.00	Average	26.39	7.83	34.22	54.00	-19.78
4924.00	Peak	38.56	7.83	46.39	74.00	-27.61
7386.00	Average	25.40	15.33	40.73	54.00	-13.27
7386.00	Peak	37.78	15.33	53.11	74.00	-20.89

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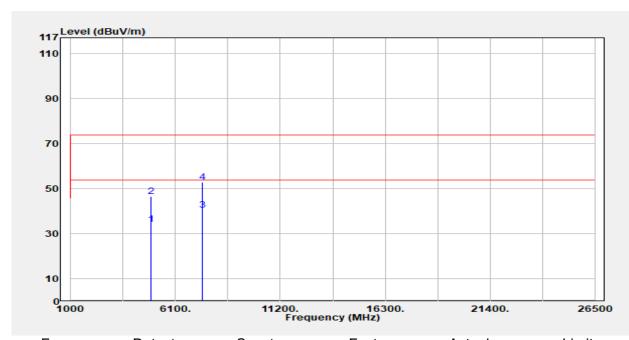
Report Number :TERF2212002773ER Test Site :SAC 1

Operation Mode :802.11n40 Test Date :2023-01-04

Test Frequency :2462 MHz Temp./Humi. :24.1/62

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :NB Plane Engineer :GN Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
4924.00	Average	26.41	7.83	34.24	54.00	-19.76
4924.00	Peak	38.80	7.83	46.63	74.00	-27.37
7386.00	Average	25.40	15.33	40.73	54.00	-13.27
7386.00	Peak	37.64	15.33	52.97	74.00	-21.03

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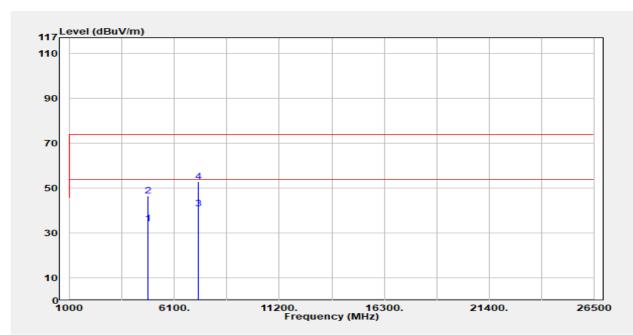
Report Number :TERF2212002773ER **Test Site** :SAC 1

Operation Mode :802.11ax20 106/53 **Test Date** :2023-01-04

Test Frequency Temp./Humi. :2412 MHz :24.1/62

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :GN Lin :NB Plane Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4824.00	Average	26.44	7.95	34.39	54.00	-19.61
4824.00	Peak	38.58	7.95	46.53	74.00	-27.47
7236.00	Average	25.72	15.18	40.90	54.00	-13.10
7236.00	Peak	37.82	15.18	53.00	74.00	-21.00

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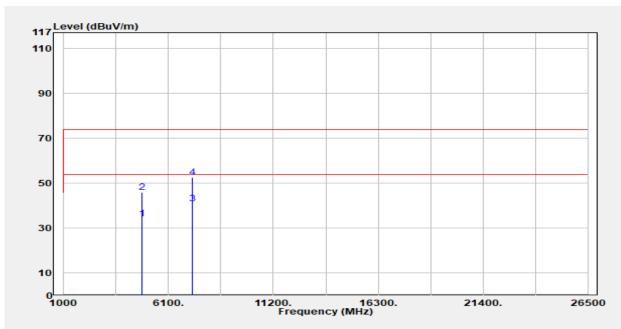
Report Number :TERF2212002773ER **Test Site** :SAC 1

Operation Mode :802.11ax20 106/53 **Test Date** :2023-01-04

Test Frequency Temp./Humi. :2412 MHz :24.1/62

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :GN Lin :NB Plane Engineer



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
				'	'	
4824.00	Average	26.36	7.95	34.31	54.00	-19.69
4824.00	Peak	37.97	7.95	45.92	74.00	-28.08
7236.00	Average	25.71	15.18	40.89	54.00	-13.11
7236.00	Peak	37.55	15.18	52.73	74.00	-21.27

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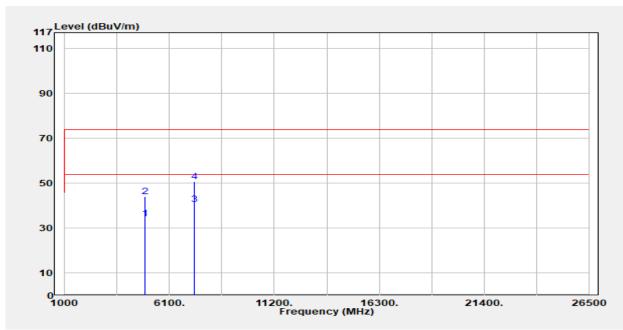
Report Number :TERF2212002773ER **Test Site** :SAC 1

:2023-01-04 **Operation Mode Test Date** :802.11ax20

Test Frequency Temp./Humi. :2442 MHz :24.1/62

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :GN Lin :NB Plane Engineer



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
				'	'	
4884.00	Average	26.44	7.69	34.13	54.00	-19.87
4884.00	Peak	36.25	7.69	43.94	74.00	-30.06
7326.00	Average	25.46	15.14	40.60	54.00	-13.40
7326.00	Peak	35.65	15.14	50.79	74.00	-23.21

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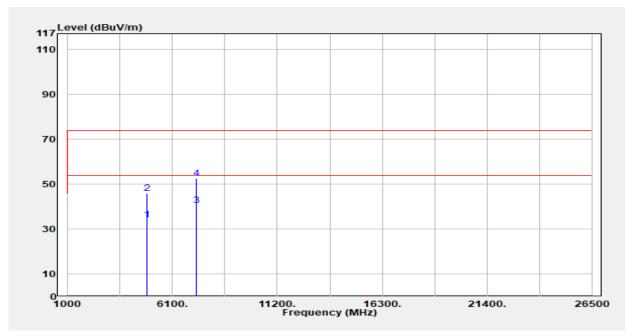
Report Number :TERF2212002773ER **Test Site** :SAC 1

Operation Mode Test Date :2023-01-04 :802.11ax20

Test Frequency Temp./Humi. :2442 MHz :24.1/62

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :GN Lin :NB Plane Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	<u>dB</u>
4844.00	Average	26.25	8.03	34.28	54.00	-19.72
4844.00	Peak	38.00	8.03	46.03	74.00	-27.97
7266.00	Average	25.61	15.07	40.68	54.00	-13.32
7266.00	Peak	37.65	15.07	52.72	74.00	-21.28

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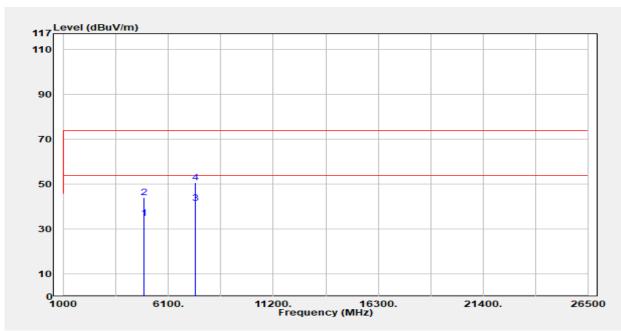
Report Number :TERF2212002773ER Test Site :SAC 1

Operation Mode :802.11ax20 Test Date :2023-01-04

Test Frequency :2462 MHz Temp./Humi. :24.1/62

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :NB Plane Engineer :GN Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	<u>dB</u>
4924.00	Average	27.04	7.83	34.87	54.00	-19.13
4924.00	Peak	36.10	7.83	43.93	74.00	-30.07
7386.00	Average	26.05	15.33	41.38	54.00	-12.62
7386.00	Peak	35.39	15.33	50.72	74.00	-23.28

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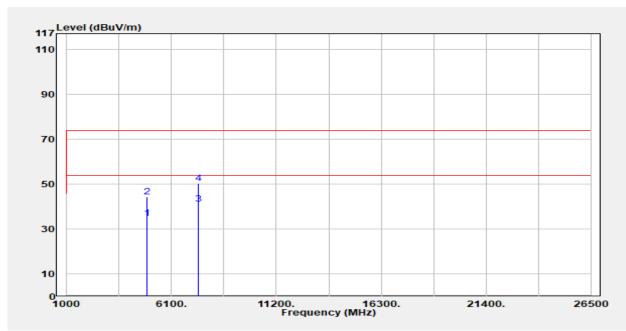
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Operation Mode :802.11ax20 Test Date :2023-01-04

Test Frequency :2462 MHz Temp./Humi. :24.1/62

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :NB Plane Engineer :GN Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	<u>dB</u>
4924.00	Average	27.09	7.83	34.92	54.00	-19.08
4924.00	Peak	36.47	7.83	44.30	74.00	-29.70
7386.00	Average	25.88	15.33	41.21	54.00	-12.79
7386.00	Peak	35.17	15.33	50.50	74.00	-23.50

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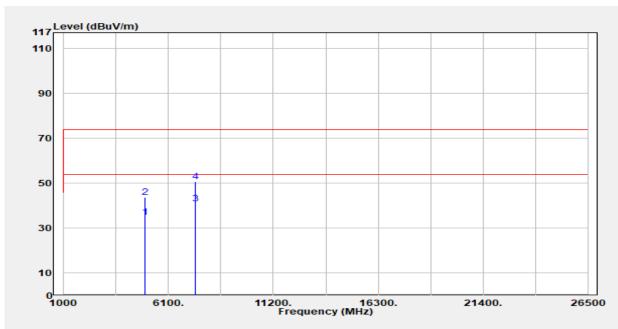
Report Number :TERF2212002773ER **Test Site** :SAC 1

:2023-01-04 **Operation Mode Test Date** :802.11ax20

Test Frequency :2467 MHz Temp./Humi. :24.1/62

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :GN Lin :NB Plane Engineer



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
		'		1	, ·	
4934.00	Average	26.68	8.07	34.75	54.00	-19.25
4934.00	Peak	35.66	8.07	43.73	74.00	-30.27
7401.00	Average	25.78	15.22	41.00	54.00	-13.00
7401.00	Peak	35.57	15.22	50.79	74.00	-23.21

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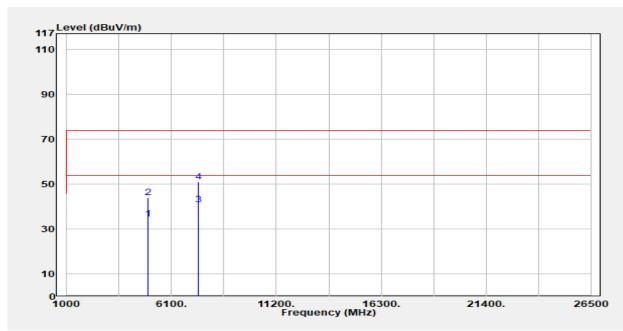
Report Number :TERF2212002773ER Test Site :SAC 1

Operation Mode :802.11ax20 Test Date :2023-01-04

Test Frequency :2467 MHz Temp./Humi. :24.1/62

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :NB Plane Engineer :GN Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4934.00	Average	26.38	8.07	34.45	54.00	-19.55
4934.00	Peak	35.87	8.07	43.94	74.00	-30.06
7401.00	Average	25.71	15.22	40.93	54.00	-13.07
7401.00	Peak	35.68	15.22	50.90	74.00	-23.10

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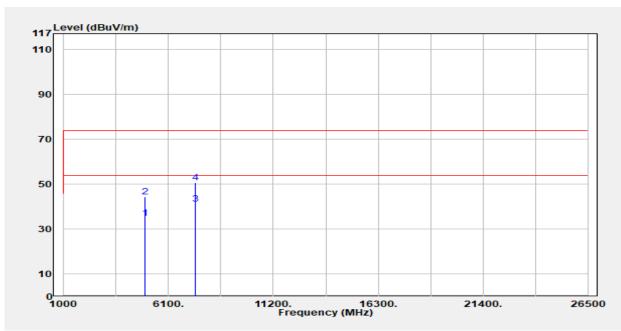
Report Number :TERF2212002773ER **Test Site** :SAC 1

:2023-01-04 **Operation Mode Test Date** :802.11ax20

Test Frequency Temp./Humi. :2472 MHz :24.1/62

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :GN Lin :NB Plane Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	<u>dB</u>
4944.00	Average	26.57	8.42	34.99	54.00	-19.01
4944.00	Peak	36.02	8.42	44.44	74.00	-29.56
7416.00	Average	25.92	15.15	41.07	54.00	-12.93
7416.00	Peak	35.53	15.15	50.68	74.00	-23.32

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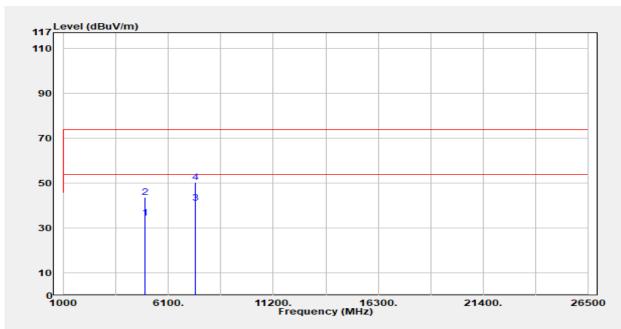
Report Number :TERF2212002773ER **Test Site** :SAC 1

Operation Mode Test Date :2023-01-04 :802.11ax20

Test Frequency :2472 MHz Temp./Humi. :24.1/62

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :GN Lin :NB Plane Engineer



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
	11001770	αυμν	<u> </u>	αυμννιιι	aba viiii	<u> </u>
4944.00	Average	26.29	8.42	34.71	54.00	-19.29
4944.00	Peak	35.30	8.42	43.71	74.00	-30.29
7416.00	Average	25.95	15.15	41.10	54.00	-12.90
7416.00	Peak	35.31	15.15	50.46	74.00	-23.54

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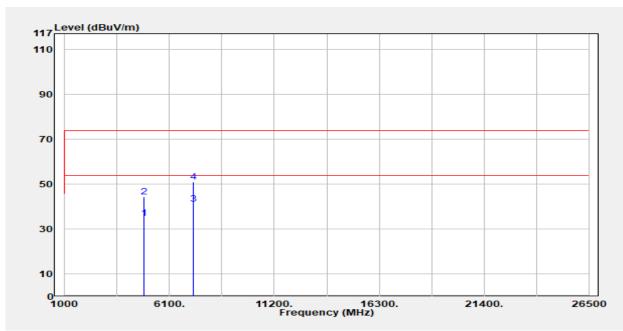
Report Number :TERF2212002773ER **Test Site** :SAC 1

:2023-01-04 **Operation Mode** :802.11ax40 **Test Date**

Test Frequency :2422 MHz Temp./Humi. :24.1/62

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :GN Lin :NB Plane Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBμV/m	dB
4844.00	Average	26.95	8.03	34.98	54.00	-19.02
4844.00	Peak	36.42	8.03	44.46	74.00	-29.54
7266.00	Average	26.21	15.07	41.28	54.00	-12.72
7266.00	Peak	35.91	15.07	50.98	74.00	-23.02

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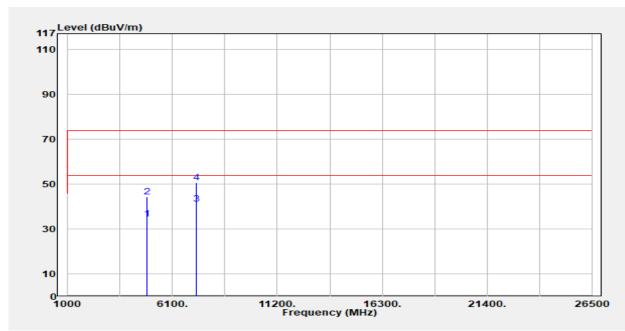
Report Number :TERF2212002773ER **Test Site** :SAC 1

Operation Mode :802.11ax40 **Test Date** :2023-01-04

Test Frequency :2422 MHz Temp./Humi. :24.1/62

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :GN Lin :NB Plane Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	<u>dB</u>
4844.00	Average	26.68	8.03	34.71	54.00	-19.29
4844.00	Peak	36.32	8.03	44.35	74.00	-29.65
7266.00	Average	26.25	15.07	41.32	54.00	-12.68
7266.00	Peak	35.61	15.07	50.68	74.00	-23.32

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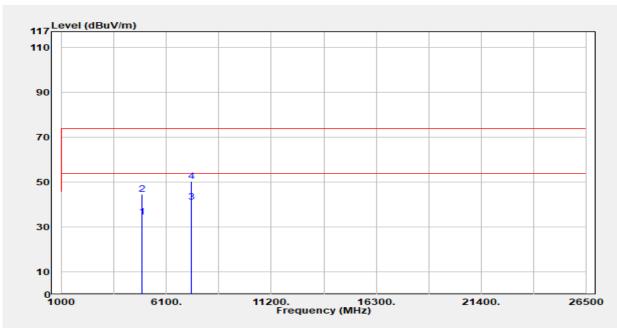
Report Number :TERF2212002773ER Test Site :SAC 1

Operation Mode :802.11ax40 Test Date :2023-01-04

Test Frequency :2442 MHz Temp./Humi. :24.1/62

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :NB Plane Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4884.00	Average	26.83	7.69	34.52	54.00	-19.48
4884.00	Peak	36.96	7.69	44.65	74.00	-29.35
7326.00	Average	25.97	15.14	41.11	54.00	-12.89
7326.00	Peak	35.42	15.14	50.56	74.00	-23.44

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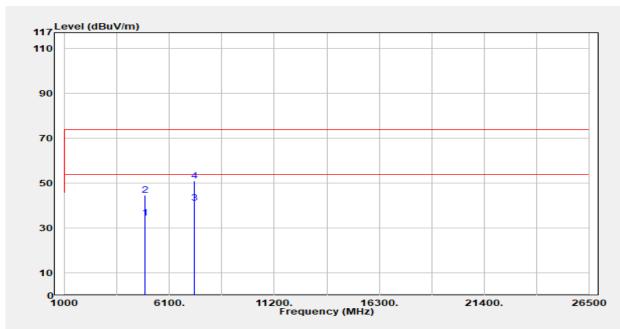
Report Number :TERF2212002773ER **Test Site** :SAC 1

Operation Mode :802.11ax40 **Test Date** :2023-01-04

Test Frequency Temp./Humi. :2442 MHz :24.1/62

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :GN Lin :NB Plane Engineer



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
•		·		, ·		
4884.00	Average	26.76	7.69	34.45	54.00	-19.55
4884.00	Peak	37.16	7.69	44.84	74.00	-29.16
7326.00	Average	26.02	15.14	41.16	54.00	-12.84
7326.00	Peak	36.01	15.14	51.16	74.00	-22.84

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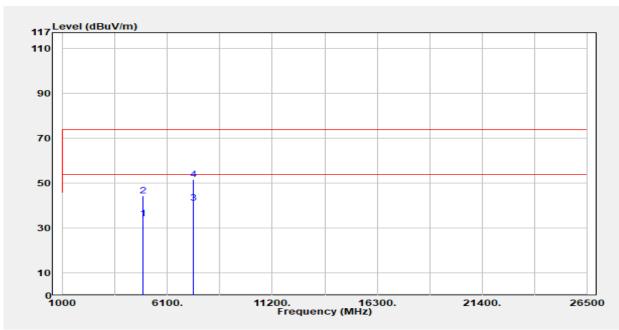
Report Number :TERF2212002773ER **Test Site** :SAC 1

:2023-01-04 **Operation Mode** :802.11ax40 **Test Date**

Test Frequency Temp./Humi. :2452 MHz :24.1/62

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :GN Lin :NB Plane Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
4904.00	Average	26.51	7.60	34.11	54.00	-19.89
4904.00	Peak	36.82	7.60	44.42	74.00	-29.58
7356.00	Average	25.71	15.37	41.08	54.00	-12.92
7356.00	Peak	36.21	15.37	51.58	74.00	-22.42

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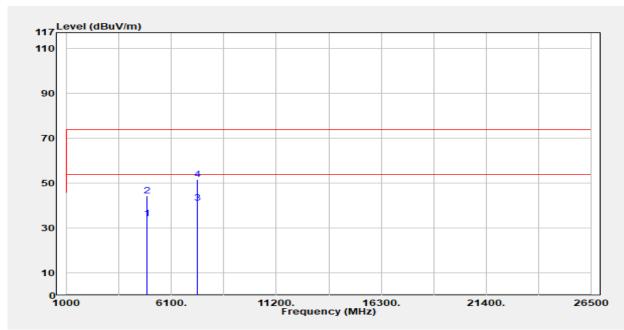
Report Number :TERF2212002773ER Test Site :SAC 1

Operation Mode :802.11ax40 Test Date :2023-01-04

Test Frequency :2452 MHz Temp./Humi. :24.1/62

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :NB Plane Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
				•		
4904.00	Average	26.59	7.60	34.19	54.00	-19.81
4904.00	Peak	36.76	7.60	44.35	74.00	-29.65
7356.00	Average	25.74	15.37	41.11	54.00	-12.89
7356.00	Peak	36.15	15.37	51.53	74.00	-22.47

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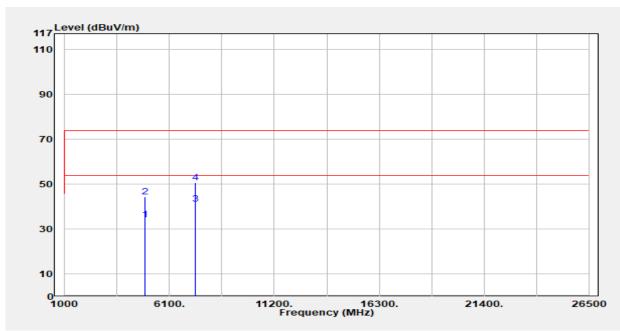
Report Number :TERF2212002773ER Test Site :SAC 1

Operation Mode :802.11ax40 Test Date :2023-01-04

Test Frequency :2457 MHz Temp./Humi. :24.1/62

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :NB Plane Engineer :GN Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
4914.00	Average	26.65	7.71	34.36	54.00	-19.64
4914.00	Peak	36.53	7.71	44.25	74.00	-29.75
7371.00	Average	25.76	15.44	41.20	54.00	-12.80
7371.00	Peak	35.34	15.44	50.77	74.00	-23.23

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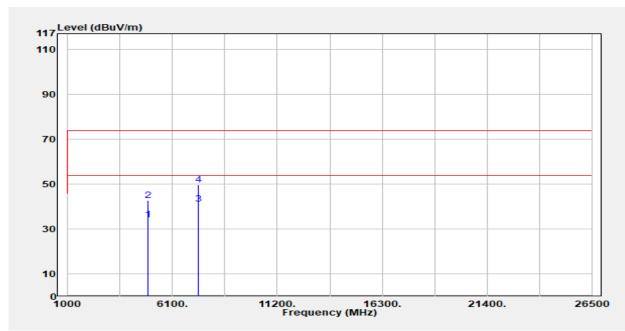
Report Number :TERF2212002773ER Test Site :SAC 1

Operation Mode :802.11ax40 Test Date :2023-01-04

Test Frequency :2457 MHz Temp./Humi. :24.1/62

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :NB Plane Engineer :GN Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBμV/m	dB
						_
4914.00	Average	26.46	7.71	34.17	54.00	-19.83
4914.00	Peak	35.24	7.71	42.95	74.00	-31.05
7371.00	Average	25.79	15.44	41.23	54.00	-12.77
7371.00	Peak	34.41	15.44	49.85	74.00	-24.15

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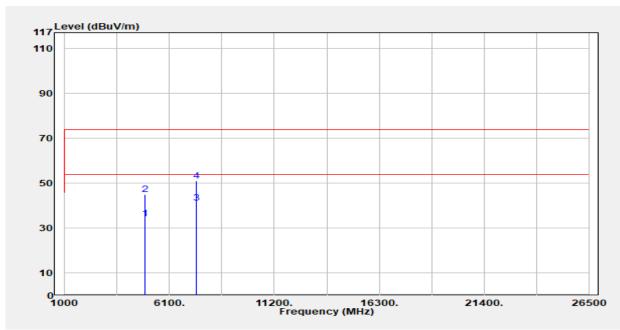
Report Number :TERF2212002773ER Test Site :SAC 1

Operation Mode :802.11ax40 Test Date :2023-01-04

Test Frequency :2462 MHz Temp./Humi. :24.1/62

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :NB Plane Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
-		Į.			<u>, , , , , , , , , , , , , , , , , , , </u>	
4924.00	Average	26.53	7.83	34.36	54.00	-19.64
4924.00	Peak	37.20	7.83	45.03	74.00	-28.97
7386.00	Average	25.76	15.33	41.09	54.00	-12.91
7386.00	Peak	35.78	15.33	51.11	74.00	-22.89

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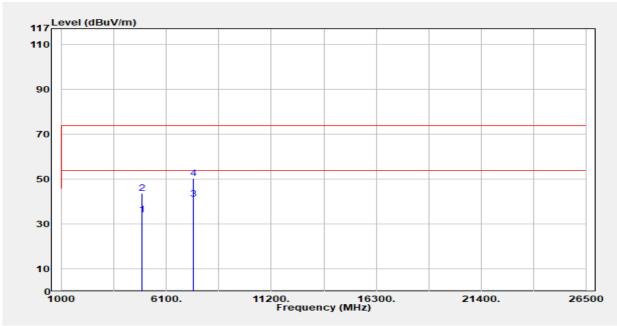
Report Number **Test Site** :SAC 1 :TERF2212002773ER

:2023-01-04 **Operation Mode Test Date** :802.11ax40

Test Frequency Temp./Humi. :2462 MHz :24.1/62

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :GN Lin :NB Plane Engineer



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
						_
4924.00	Average	26.34	7.83	34.17	54.00	-19.83
4924.00	Peak	35.94	7.83	43.77	74.00	-30.23
7386.00	Average	25.79	15.33	41.12	54.00	-12.88
7386.00	Peak	35.20	15.33	50.53	74.00	-23.47

~ End of Report ~

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