

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE TEST REPORT**

Applicant: Silex Technology, Inc.
2-3-1 Hikaridai, Seika-cho, Soraku-gun, Kyoto 619-0237,
Japan

Manufacturer: Silex Technology, Inc.
2-3-1 Hikaridai, Seika-cho, Soraku-gun, Kyoto 619-0237,
Japan

Product Name: SX-PCEBE-AP

Brand Name: Silex Technology

Model No./ISED HVIN: SX-PCEBE-AP

ISED PMN: Embedded wireless module

Report Number: TERF2412003980ER

FCC ID N6C-PCEBEAP

IC: 4908A-PCEBEAP

Date of EUT Received: December 06, 2024

Date of Test: December 09, 2024~February 21, 2025

Issue Date: March 27, 2025

Approved By

CHUN-CHIEH, CHEN

CHUN-CHIEH, CHEN

We hereby certify that:

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 and & 15.407, 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
TERF2412003980ER	00	Original	March 27, 2025	Karen Huang	

Note:

- 1、The remark "" indicates modification of the report upon requests from certification body

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	SX-PCEBE-AP
Brand Name:	Silex Technology
Model No./ISED HVIN:	SX-PCEBE-AP
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	PW105450XX
Power Supply:	3.3 VDC and 5 VDC
Test Software (Name/Version)	QRCT / 4.0.211.0

1.2 Modulation & Data Rate

Modulation type:	CCK, DQPSK, DBPSK for DSSS in 802.11b
	64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11g, 11n
	1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA in 802.11ax
	4096QAM, 1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA in 802.11be
Data Rate:	802.11b: 1/2/5.5/11 Mbps
	802.11g: 6/9/12/18/24/36/48/54 Mbps
	802.11n_HT20: up to 144.4Mbps
	802.11n_HT40: up to 300Mbps
	802.11ax_HE20: up to 286.8Mbps
	802.11ax_HE40: up to 573.6Mbps
	802.11be_EHT20: up to 344.1Mbps
802.11be_EHT40: up to 688.2Mbps	

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Modulation type:	64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11a, 11n
	256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11ac
	1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA in 802.11ax
	4096QAM, 1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA in 802.11be
Transition Rate:	802.11 a: 6 - 54 Mbps
	802.11 n_HT20: up to 144.4 Mbps
	802.11 n_HT40: up to 300 Mbps
	802.11 ac_VHT20: up to 173.4 Mbps
	802.11 ac_VHT40: up to 400 Mbps
	802.11 ac_VHT80: up to 866.6 Mbps
	802.11 ac_VHT160: up to 1733.4 Mbps
	802.11 ax_HE20: up to 286.8 Mbps
	802.11 ax_HE40: up to 573.6 Mbps
	802.11 ax_HE80: up to 1201 Mbps
	802.11 ax_HE160: up to 2402 Mbps
	802.11 be_EHT20: up to 344.1 Mbps
	802.11 be_EHT40: up to 688.2 Mbps
	802.11 be_EHT80: up to 1441.2 Mbps
802.11 be_EHT160: up to 2882.4 Mbps	

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1.3 Antenna Designation

Antenna Type	Antenna Model No.	Freq.	Element Gain (dBi)	Cable Loss	Net Gain (dBi)	Remark
Dipole	146153	2.4GHz	3.35	0.175	3.175	
Dipole	H2B1PC1A1Cxxxx		2.9	0.23	2.67	
Monopole	GW.05.0153		2.8	0	2.8	
PIFA	6001535		3.2	0.5	2.7	Main
			4.3	1.1	3.2	Aux

Antenna Type	Antenna Model No.	Freq. (MHz)	Element Gain (dBi)	Cable Loss	Net Gain (dBi)	Remark
Dipole	146153	5150~5250	3.45	0.275	3.175	
		5250~5350	3.25	0.275	2.975	
		5470~5725	4.55	0.275	4.275	
		5725~5850	4.05	0.275	3.775	
Dipole	H2B1PC1A1Cxxxx	5150~5250	4	0.78	3.22	
		5250~5350	4.9	0.99	3.91	
		5470~5725	4	1.18	2.82	
		5725~5850	5.6	1.63	3.97	
Monopole	WS.03.B.305151	5150~5250	5.63	2.4	3.23	
		5250~5350	5.15	1.3	3.85	
		5470~5725	4.14	0.8	3.34	
		5725~5850	4.12	0.8	3.32	
PIFA	6001535	5150~5250	6	2.8	3.2	Main
		5250~5350	6.3	2.4	3.9	
		5470~5725	5.1	0.8	4.3	
		5725~5850	4.2	0.8	3.4	
PIFA	6001535	5150~5250	5.6	2.4	3.2	Aux
		5250~5350	5.9	2.4	3.5	
		5470~5725	5	0.8	4.2	
		5725~5850	5	1.4	3.6	

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.

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1.4 Test Methodology of Applied Standards

- FCC Part 15, Subpart C §15.247
- FCC Part 15, Subpart E §15.407
- FCC KDB 558074 D01 15.247 Meas. Guidance v05r02
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01
- RSS-247 issue 3 Aug. 2023
- RSS-Gen, Issue 5 April 2018, Amendment 2 (February 2021)
- ANSI C63.10:2013

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	TW0027	TW3702
		SAC 2		
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
		Conducted 6		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
Conducted G				

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

1.6 Special Accessories

There 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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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 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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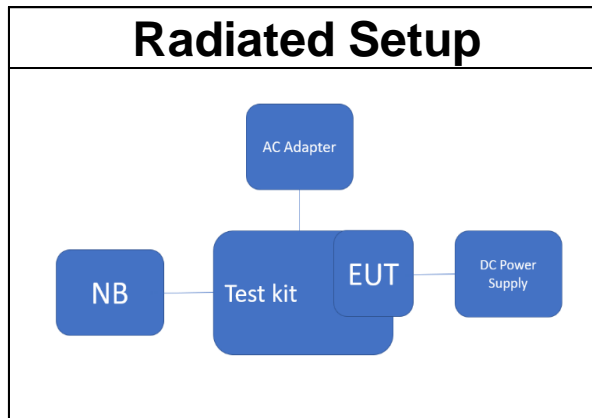
2.4 Measurement Results Explanation Example

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



2.6 Control Unit(s)

Radiated Emission Test Site: SAC 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
AC Adapter	MEAN WELL	GST60A12	N/A	N/A	N/A
Test kit	Silex	SCH-39019 REV F	N/A	N/A	N/A
Notebook	Lenovo	T440P	PC-01V5PW 14/11	N/A	N/A

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3 SUMMARY OF TEST RESULT

FCC Rules	ISED Rules	Description Of Test	Result
§15.205 §15.209 §15.407(b)	RSS-247 §6.2.1~ 4 (2)	Undesirable Radiated Emissions	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 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 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.

Test mode

Final test modes are considering the modulation and worse data rate as below table.

WLAN 2.4GHz + WLAN 5GHz

TRANSMIT RADIATED EMISSION TEST					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATION	DATA RATE (Mbps)
802.11be_EHT20	1 to 11	6	OFDMA	FULL RU	MCS0
802.11n_HT40	151 to 159	159	OFDMA	N/A	MCS0

Note:

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.

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
Conducted emission measurement	+/- 0.77 dB
Temperature	+/- 0.6 °C
Humidity	+/- 3 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty				
Polarization: Vertical	+/-	1.89	dB	9kHz~30MHz
	+/-	4.15	dB	30MHz - 1000MHz
	+/-	3.43	dB	1GHz - 18GHz
	+/-	3.86	dB	18GHz - 40GHz
Polarization: Horizontal	+/-	1.89	dB	9kHz~30MHz
	+/-	4.02	dB	30MHz - 1000MHz
	+/-	3.43	dB	1GHz - 18GHz
	+/-	3.86	dB	18GHz - 40GHz
Radiated Spurious Emission	+/-	2	dB	33GHz-50GHz
	+/-	1.59	dB	50GHz-60GHz
	+/-	1.7	dB	60GHz-90GHz
	+/-	1.64	dB	90GHz-140GHz
	+/-	3.83	dB	140GHz-220GHz

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 UNDESIRABLE RADIATED EMISSION MEASUREMENT

6.1 Standard Applicable

$EIRP = (E \cdot d)^2 / 30$, where E is the field strength in V/m, d is the measurement distance (3m), $EIRP$ is the equivalent isotropically radiated power in Watts.

6.1.1 5150~5850 MHz

Applicable to	Operation Freq. (MHz)	EIRP		Field Strength @ 3m (dB μ V/m)
		Freq. (MHz)	Limits (dBm/MHz)	
15.407(b)(1) RSS-247 §6.2.1.2	5150~5250	f ≤ 5150 f ≥ 5350	PK: -27	PK: 68.2
15.407(b)(2) RSS-247 §6.2.2.2	5250~5350			
15.407(b)(3) RSS-247 §6.2.3.2	5475~5725	f ≤ 5470 f ≥ 5725		
15.407(b)(4)(i) RSS-247 §6.2.4.2	5725~5850	at 75 MHz or more above or below the band edge	PK:-27	PK: 68.2
		increasing linearly from 75~25MHz above or below the band edge	PK:-27~10	PK: 68.2~105.2
		increasing linearly from 25~5MHz above or below the band edge	PK:10~15.6	PK: 105.2~110.8
		increasing linearly from 5~0 MHz above or below the band edge	PK: 15.6~27	PK:110.8~122.2

6.1.2 Spurious Emission

Unwanted spurious emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

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:

- The lower limit shall apply at the transition frequencies.

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6.2 Measurement Equipment Used:

Radiated Emission Test Site: SAC 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
4G High Pass Filter	WI	WHKX4.0	23	12/11/2024	12/10/2025
7G High Pass Filter	WI	WHKX7.0	45	12/11/2024	12/10/2025
Band Reject Filter 2400-2483.5	Titan	T04N2400248350S0 1	23040703-10	12/11/2024	12/10/2025
Band Reject Filter 5725-5895	Titan	T04N5725589550S0 1	210519-2-1	12/11/2024	12/10/2025
Bi-log Antenna	SCHWARZBECK	VULB9168	378	08/09/2024	08/08/2025
Coaxial Cable	EMCI	EMC104-SM-SM- 8000+EMC106-SM- SM-7600	RX Cable 9K- 18G(160125+15081 7)	08/30/2024	08/29/2025
Coaxial Cables	Huber Suhner	SUCOFLEX 102	RX Cable 18G-40G MY2630/2+805062/ 2	08/30/2024	08/29/2025
EMI Test Receiver	R&S	ESCI 7	100759	08/28/2024	08/27/2025
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60242081	10/23/2024	10/22/2025
Horn Antenna	RF SPIN	DRH0844	LE2D05A0844	07/10/2024	07/09/2025
Horn Antenna	SCHWARZBECK	BBHA9120D	D803	01/09/2025	01/08/2026
Loop Antenna	COM-POWER	AL-130R	10160104	12/19/2024	12/18/2025
Pre-Amplifier	EMCI	EMC118A45SEE	980933	08/30/2024	08/29/2025
Pre-Amplifier	EMCI	EMC184045SEE	9080939	08/30/2024	08/29/2025
Pre-Amplifier	HP	8447D	2944A09469	08/30/2024	08/29/2025
Site Cal	SGS	SAC 1	N/A	08/30/2024	08/29/2025
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R

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

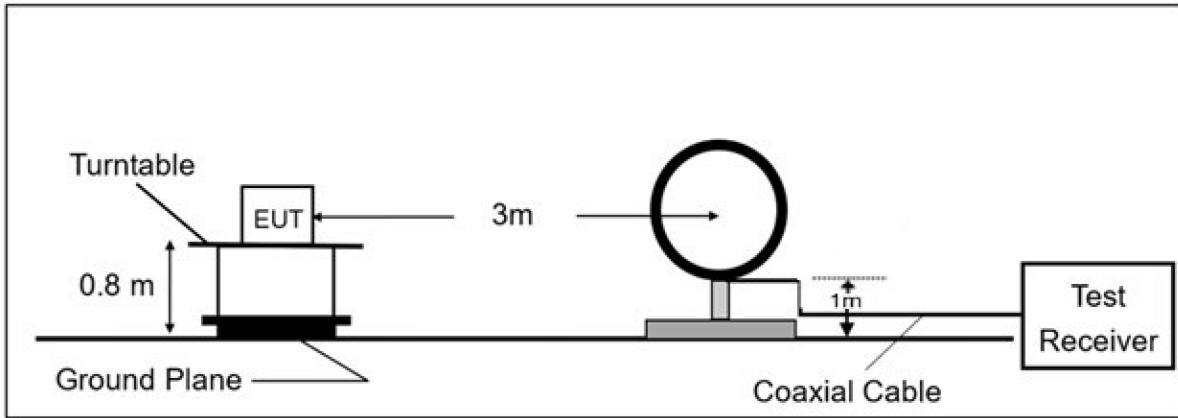
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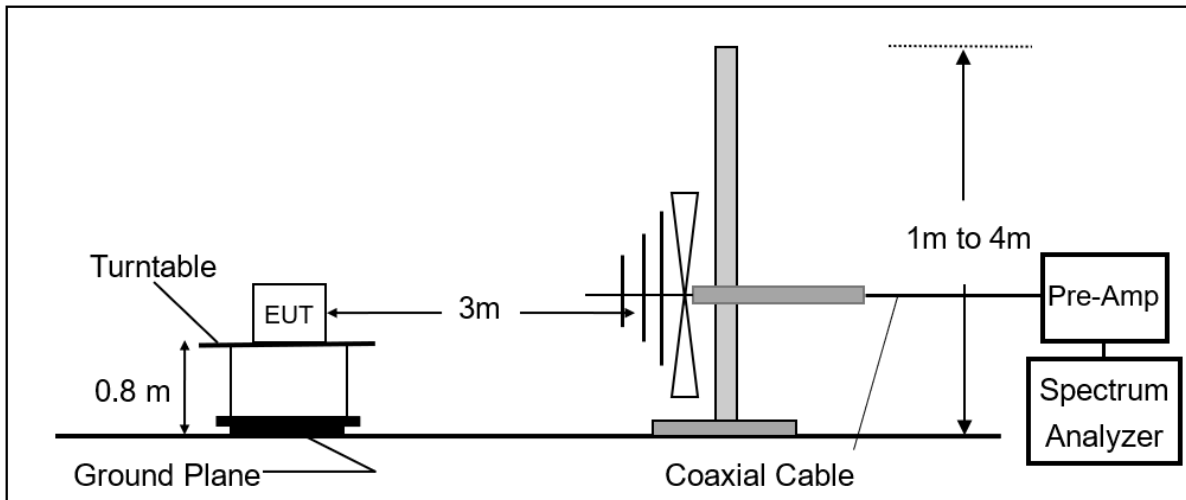
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6.3 Test Setup

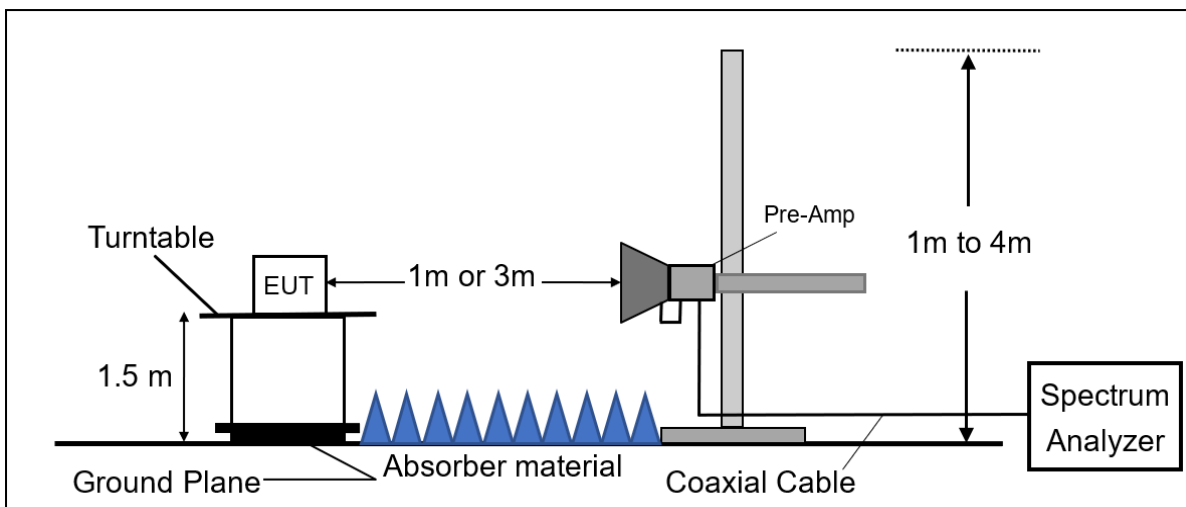
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



(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

1. The testing follows FCC KDB 789033 D02.
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.
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 \geq 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 frequency measured were complete.

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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 $20 \cdot \log(\mu\text{V/m})$

Actual FS(dBuV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBuV/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.

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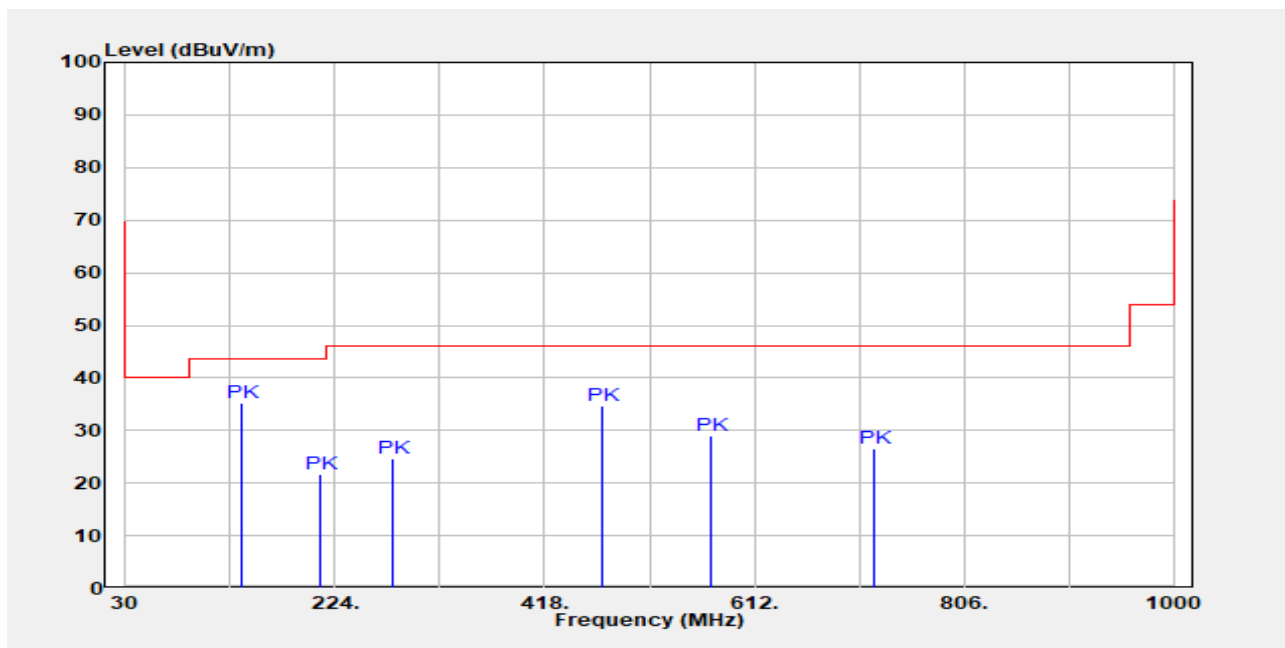
SGS Taiwan Ltd. No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

6.7 Radiated Spurious Emission Measurement Result

6.7.1 Spurious Emission

Antenna: Dipole

Report Number	:TERF2412003980ER	Test Site	:SAC 1
Operation Mode	:802.11be20 RU Full + 802.11n40	Test Date	:2025-02-05
Test Frequency	:2437 MHz+ 5795 MHz	Temp./Humi.	:22.6°C/54%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
137.670	Peak	51.08	-15.96	35.13	43.50	-8.37
210.420	Peak	39.19	-17.56	21.63	43.50	-21.87
276.380	Peak	38.82	-14.10	24.72	46.00	-21.28
471.350	Peak	44.76	-9.94	34.82	46.00	-11.18
571.260	Peak	37.08	-8.10	28.97	46.00	-17.03
723.550	Peak	31.35	-4.70	26.65	46.00	-19.35

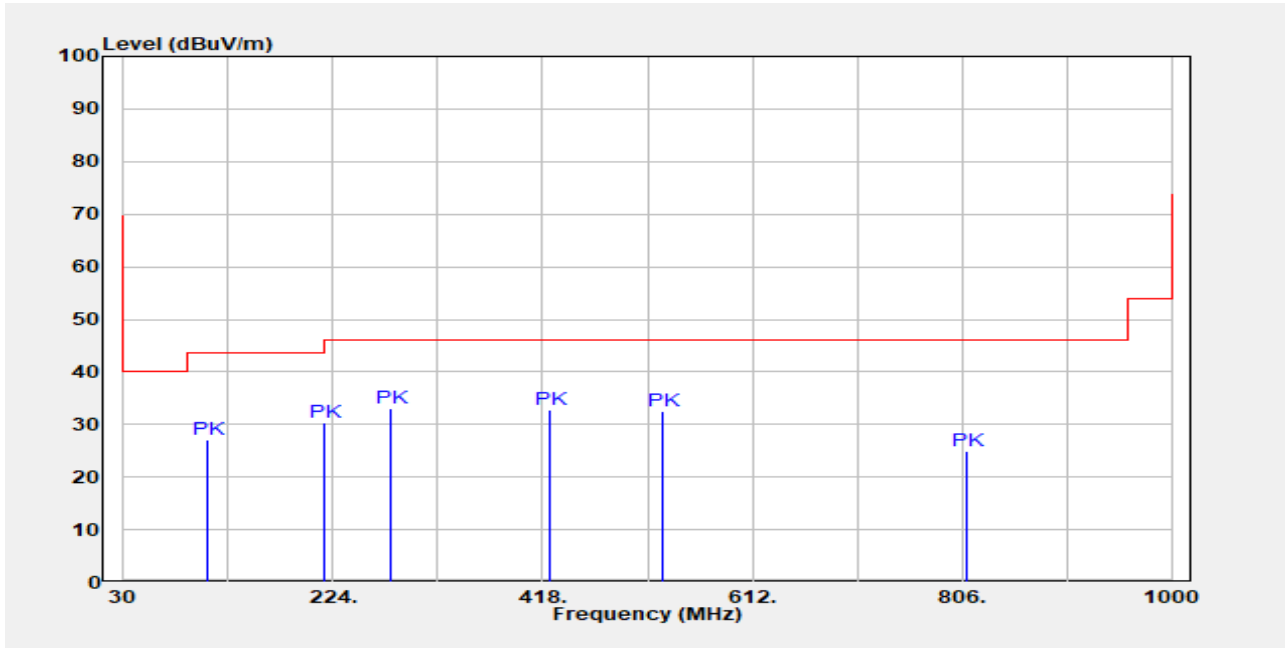
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Report Number :TERF2412003980ER
 Operation Mode :802.11be20 RU Full + 802.11n40
 Test Frequency :2437 MHz+ 5795 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2025-02-05
 Temp./Humi. :22.6°C/54%
 Antenna Pol. :Horizontal
 Engineer :WJ Lin



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
107.600	Peak	45.88	-18.82	27.05	43.50	-16.45
216.240	Peak	47.83	-17.42	30.41	46.00	-15.59
276.380	Peak	47.16	-14.10	33.06	46.00	-12.94
424.790	Peak	43.63	-10.89	32.74	46.00	-13.26
529.550	Peak	41.62	-8.99	32.63	46.00	-13.37
810.850	Peak	28.15	-3.26	24.90	46.00	-21.10

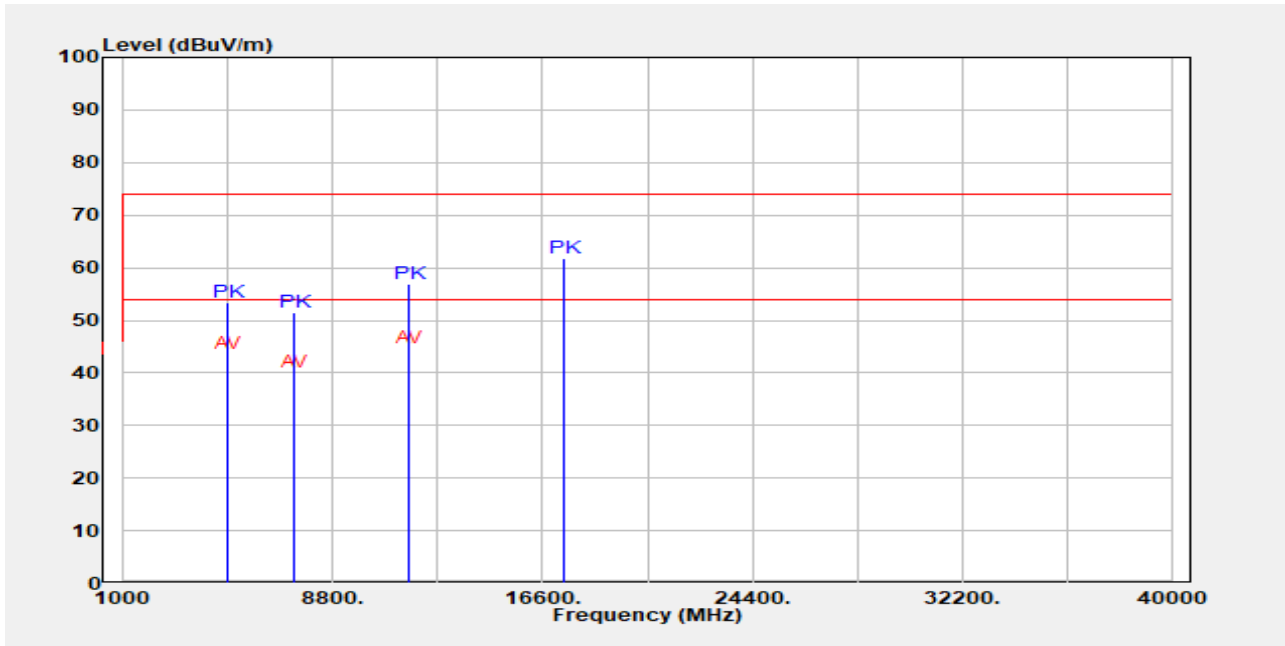
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Report Number :TERF2412003980ER
 Operation Mode :802.11be20 RU Full + 802.11n40
 Test Frequency :2437 MHz+ 5795 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2025-02-05
 Temp./Humi. :22.6°C/54%
 Antenna Pol. :Vertical
 Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4874.000	Average	40.21	3.47	43.68	54.00	-10.32
4874.000	Peak	49.97	3.47	53.44	74.00	-20.56
7311.000	Average	30.99	9.18	40.17	54.00	-13.83
7311.000	Peak	42.41	9.18	51.59	74.00	-22.41
11590.000	Average	32.70	12.00	44.70	54.00	-9.30
11590.000	Peak	44.94	12.00	56.94	74.00	-17.06
17385.000	Peak	49.11	12.60	61.71	68.20	-6.49

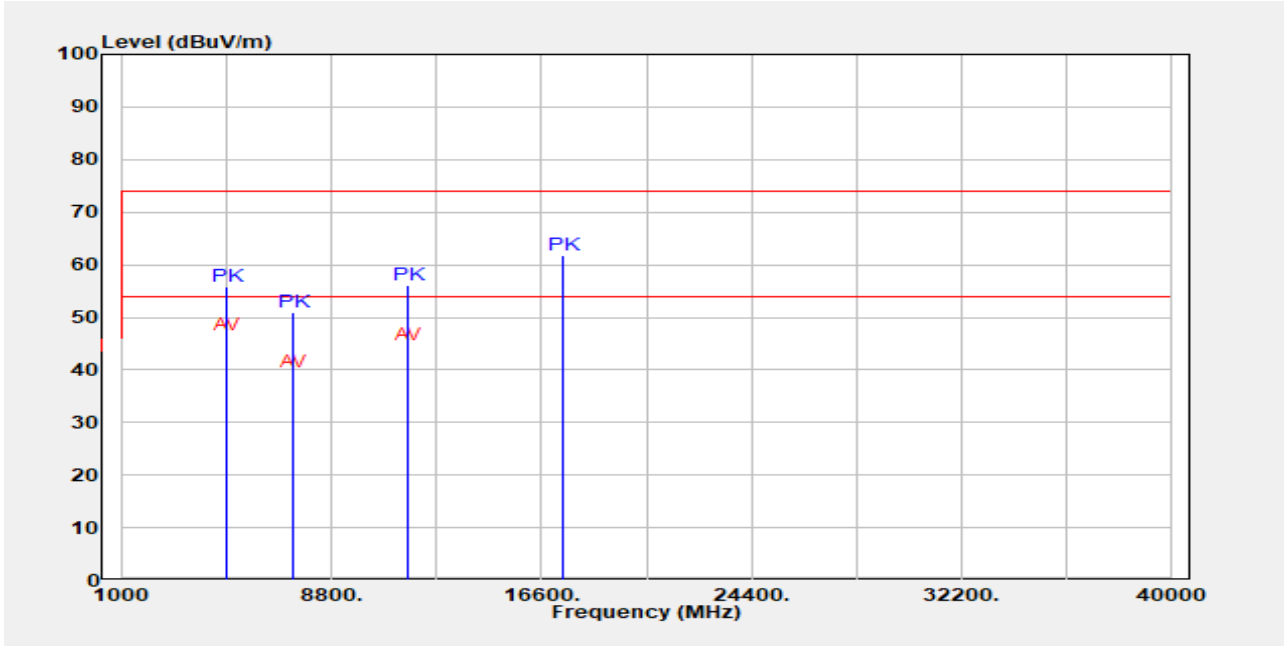
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Report Number :TERF2412003980ER
 Operation Mode :802.11be20 RU Full + 802.11n40
 Test Frequency :2437 MHz+ 5795 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2025-02-05
 Temp./Humi. :22.6°C/54%
 Antenna Pol. :Horizontal
 Engineer :WJ Lin



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
4874.000	Average	43.09	3.47	46.56	54.00	-7.44
4874.000	Peak	52.47	3.47	55.94	74.00	-18.06
7311.000	Average	30.51	9.18	39.69	54.00	-14.31
7311.000	Peak	41.65	9.18	50.83	74.00	-23.17
11590.000	Average	32.73	12.00	44.74	54.00	-9.26
11590.000	Peak	44.01	12.00	56.01	74.00	-17.99
17385.000	Peak	49.27	12.60	61.87	68.20	-6.33

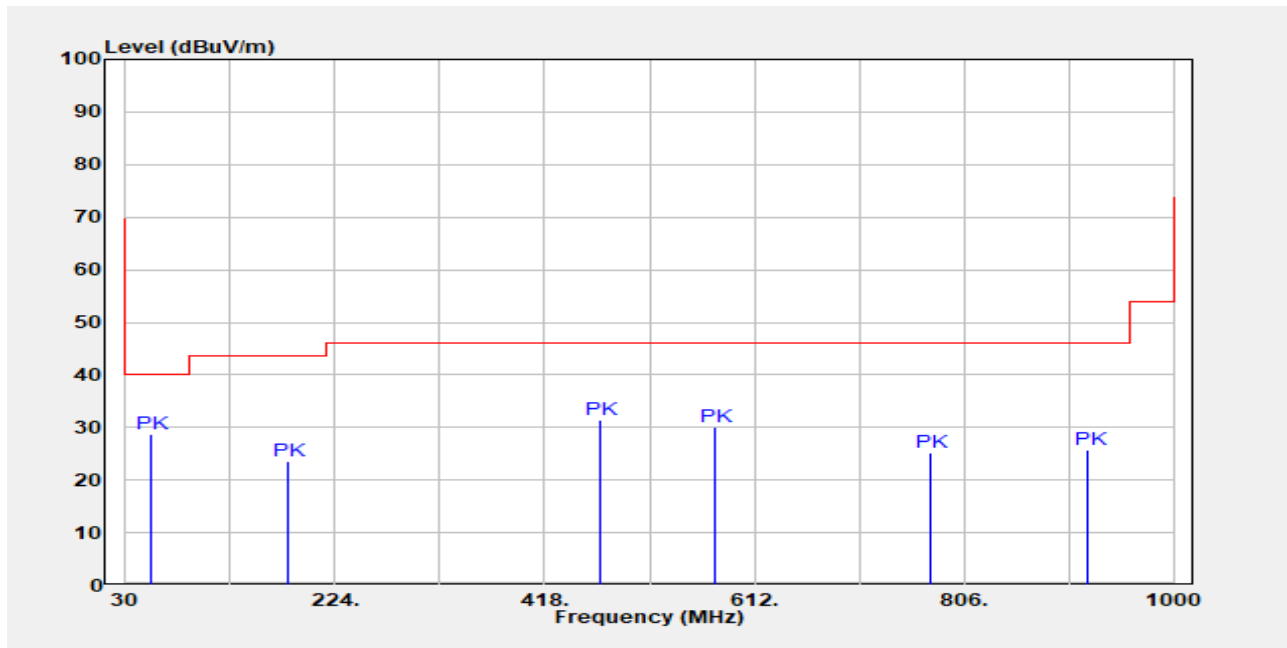
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Antenna: Monopole

Report Number	:TERF2412003980ER	Test Site	:SAC 1
Operation Mode	:802.11be20 RU Full + 802.11n40	Test Date	:2025-02-20
Test Frequency	:2437 MHz+ 5795 MHz	Temp./Humi.	:23.2°C/52%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
53.280	Peak	44.10	-15.25	28.85	40.00	-11.15
180.350	Peak	39.72	-16.24	23.48	43.50	-20.02
469.410	Peak	41.28	-9.94	31.34	46.00	-14.66
575.140	Peak	38.15	-8.08	30.06	46.00	-15.94
774.960	Peak	28.73	-3.53	25.20	46.00	-20.80
921.430	Peak	26.95	-1.33	25.62	46.00	-20.38

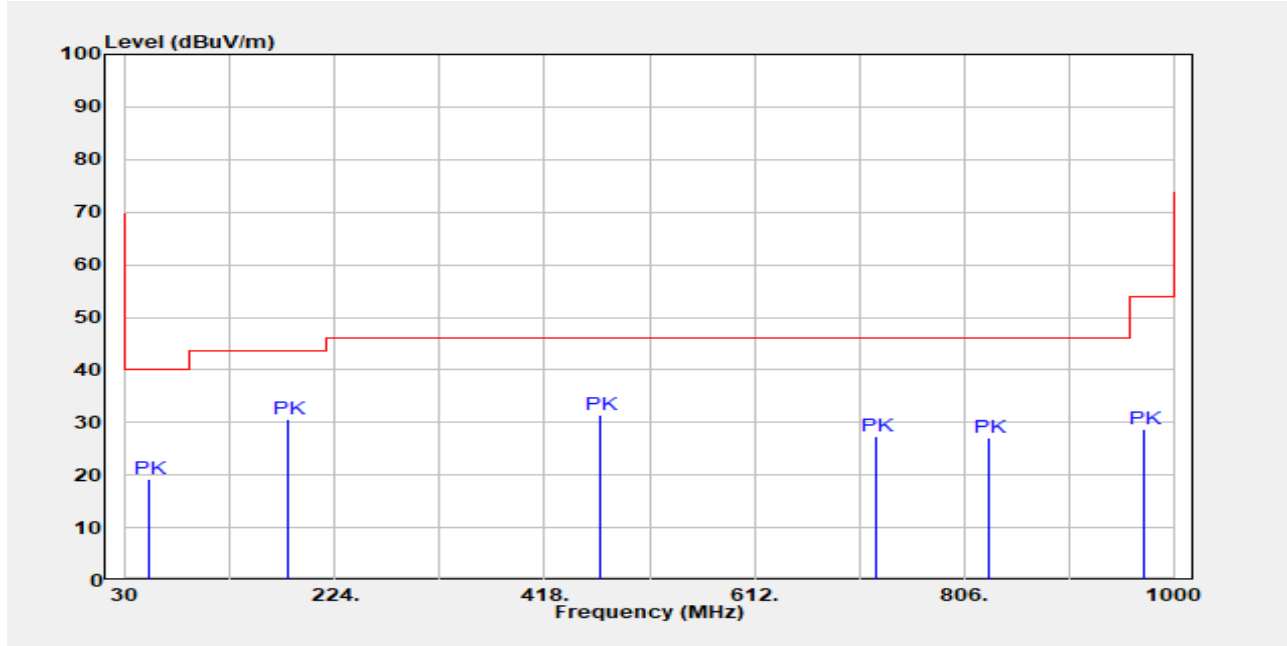
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Report Number :TERF2412003980ER
 Operation Mode :802.11be20 RU Full + 802.11n40
 Test Frequency :2437 MHz+ 5795 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2025-02-20
 Temp./Humi. :23.2°C/52%
 Antenna Pol. :Horizontal
 Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
51.340	Peak	34.42	-15.28	19.14	40.00	-20.86
179.380	Peak	46.82	-16.11	30.71	43.50	-12.79
468.440	Peak	41.35	-9.94	31.41	46.00	-14.59
725.490	Peak	32.07	-4.59	27.48	46.00	-18.52
828.310	Peak	30.28	-3.05	27.23	46.00	-18.77
971.870	Peak	29.27	-0.60	28.67	54.00	-25.33

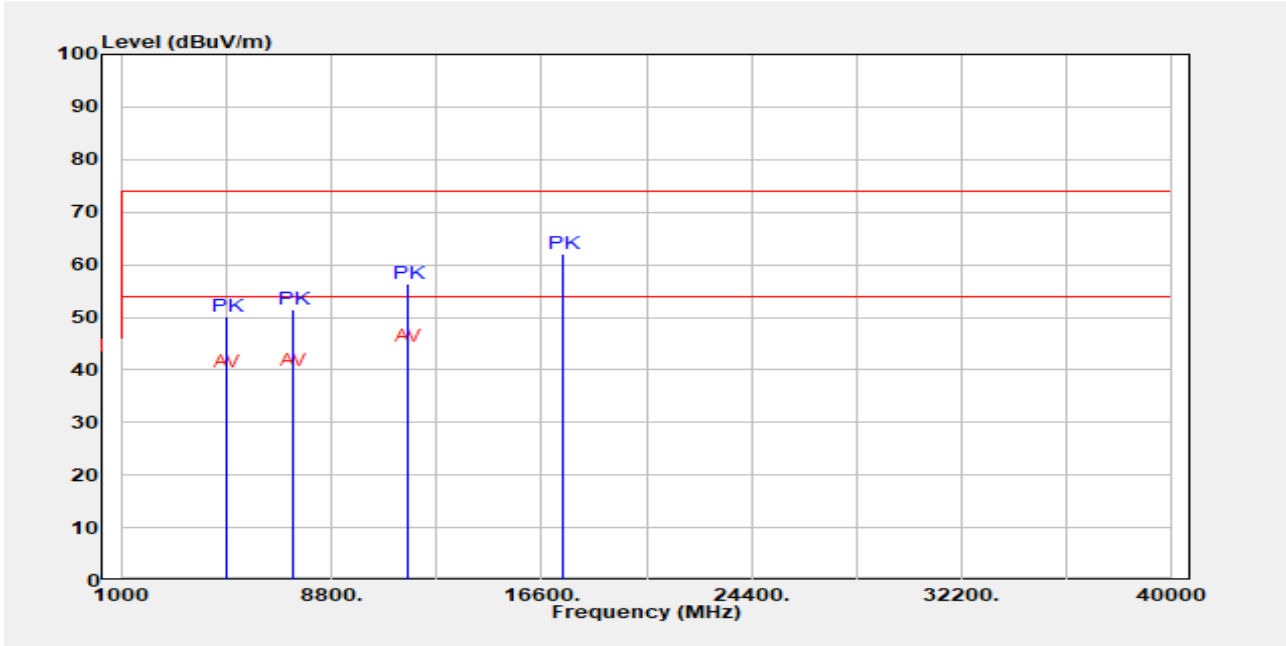
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Report Number :TERF2412003980ER
 Operation Mode :802.11be20 RU Full + 802.11n40
 Test Frequency :2437 MHz+ 5795 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2025-02-20
 Temp./Humi. :23.2°C/52%
 Antenna Pol. :Vertical
 Engineer :WJ Lin



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
4874.000	Average	36.06	3.47	39.53	54.00	-14.47
4874.000	Peak	46.56	3.47	50.03	74.00	-23.97
7311.000	Average	30.73	9.18	39.91	54.00	-14.09
7311.000	Peak	42.35	9.18	51.53	74.00	-22.47
11590.000	Average	32.56	12.00	44.57	54.00	-9.43
11590.000	Peak	44.49	12.00	56.49	74.00	-17.51
17385.000	Peak	49.49	12.60	62.09	68.20	-6.11

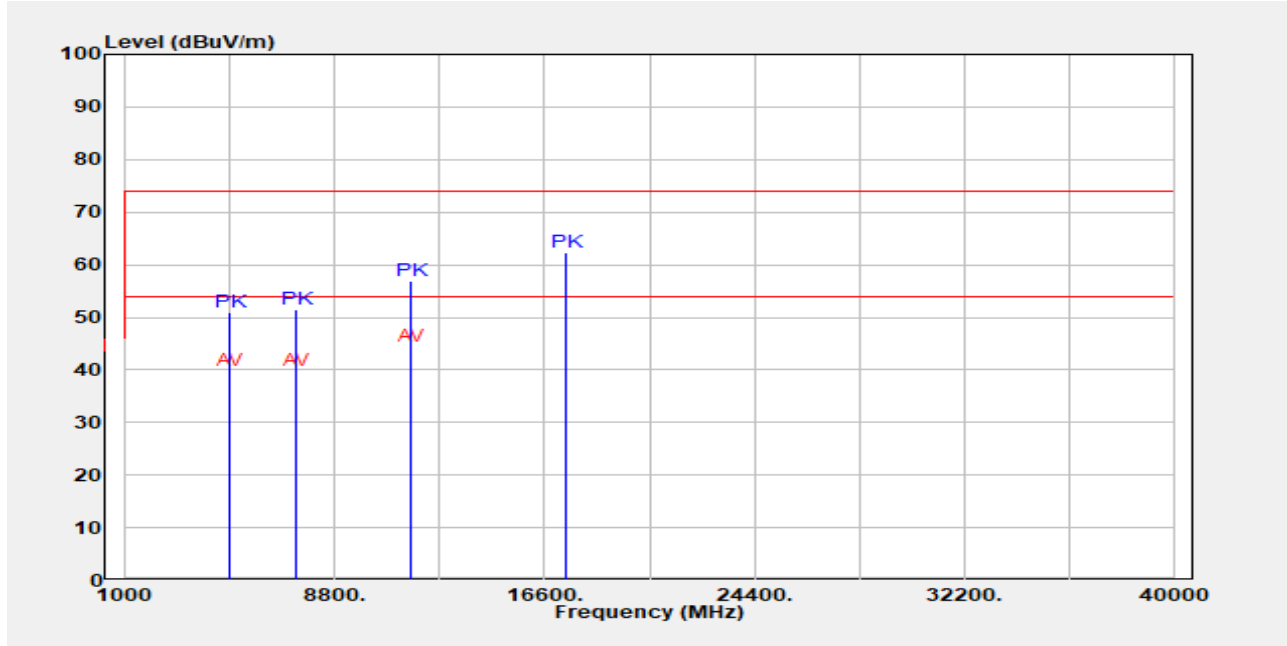
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Report Number :TERF2412003980ER
 Operation Mode :802.11be20 RU Full + 802.11n40
 Test Frequency :2437 MHz+ 5795 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2025-02-20
 Temp./Humi. :23.2°C/52%
 Antenna Pol. :Horizontal
 Engineer :WJ Lin



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
4874.000	Average	36.40	3.47	39.87	54.00	-14.13
4874.000	Peak	47.44	3.47	50.91	74.00	-23.09
7311.000	Average	30.52	9.18	39.70	54.00	-14.30
7311.000	Peak	42.25	9.18	51.43	74.00	-22.57
11590.000	Average	32.57	12.00	44.58	54.00	-9.42
11590.000	Peak	44.90	12.00	56.90	74.00	-17.10
17385.000	Peak	49.61	12.60	62.21	68.20	-5.99

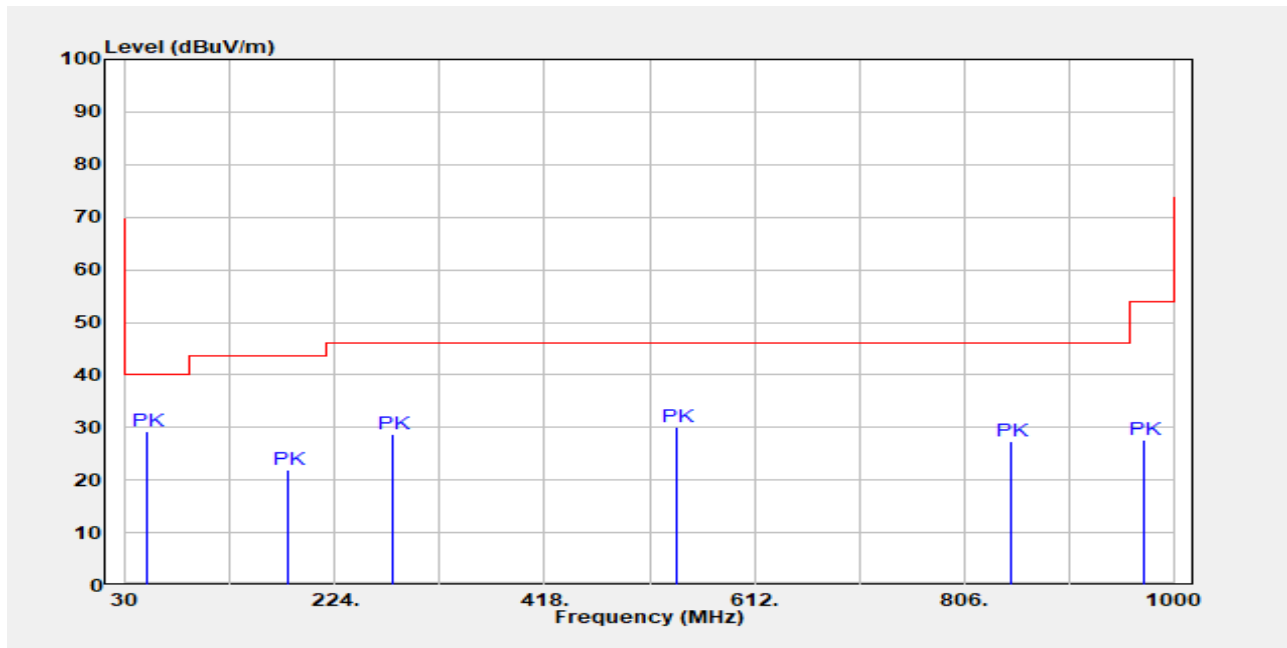
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Antenna: PIFA

Report Number	:TERF2412003980ER	Test Site	:SAC 1
Operation Mode	:802.11be20 RU Full + 802.11n40	Test Date	:2025-02-20
Test Frequency	:2437 MHz+ 5795 MHz	Temp./Humi.	:23.2°C/52%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
50.370	Peak	44.55	-15.34	29.21	40.00	-10.79
179.380	Peak	38.13	-16.11	22.02	43.50	-21.48
276.380	Peak	42.92	-14.10	28.82	46.00	-17.18
540.220	Peak	38.88	-8.73	30.15	46.00	-15.85
849.650	Peak	29.64	-2.38	27.26	46.00	-18.74
971.870	Peak	28.22	-0.60	27.62	54.00	-26.38

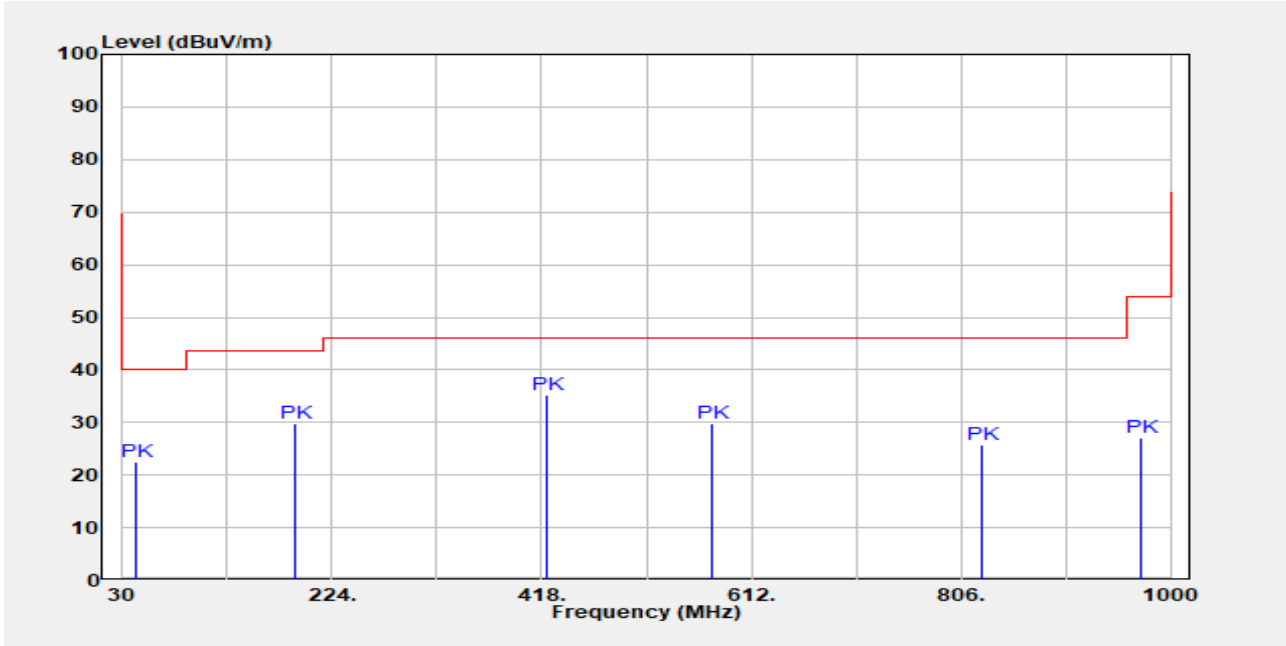
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Report Number :TERF2412003980ER
 Operation Mode :802.11be20 RU Full + 802.11n40
 Test Frequency :2437 MHz+ 5795 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2025-02-20
 Temp./Humi. :23.2°C/52%
 Antenna Pol. :Horizontal
 Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
42.610	Peak	38.27	-15.90	22.37	40.00	-17.63
190.050	Peak	47.23	-17.30	29.93	43.50	-13.57
421.880	Peak	46.13	-10.94	35.19	46.00	-10.81
575.140	Peak	37.80	-8.08	29.72	46.00	-16.28
825.400	Peak	28.90	-3.06	25.84	46.00	-20.16
971.870	Peak	27.68	-0.60	27.08	54.00	-26.92

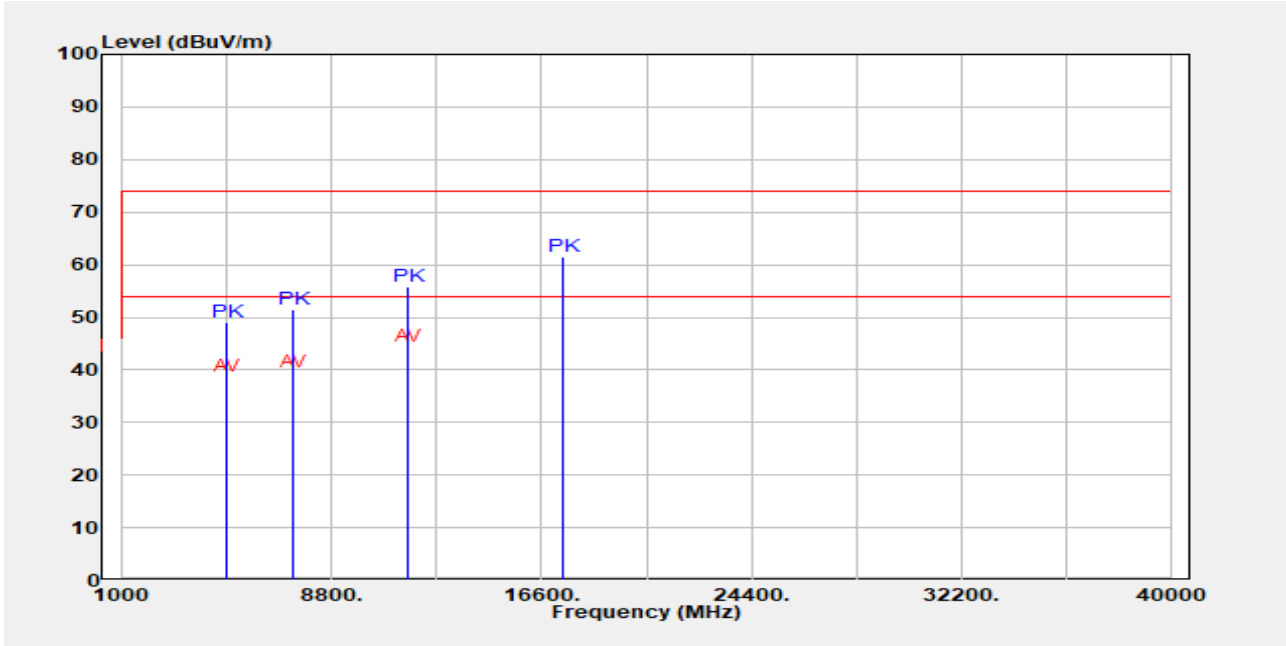
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 Operation Mode :802.11be20 RU Full + 802.11n40
 Test Frequency :2437 MHz+ 5795 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2025-02-20
 Temp./Humi. :23.2°C/52%
 Antenna Pol. :Vertical
 Engineer :WJ Lin



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
4874.000	Average	35.27	3.47	38.74	54.00	-15.26
4874.000	Peak	45.47	3.47	48.94	74.00	-25.06
7311.000	Average	30.35	9.18	39.53	54.00	-14.47
7311.000	Peak	42.35	9.18	51.53	74.00	-22.47
11590.000	Average	32.51	12.00	44.51	54.00	-9.49
11590.000	Peak	43.88	12.00	55.88	74.00	-18.12
17385.000	Peak	48.79	12.60	61.39	68.20	-6.81

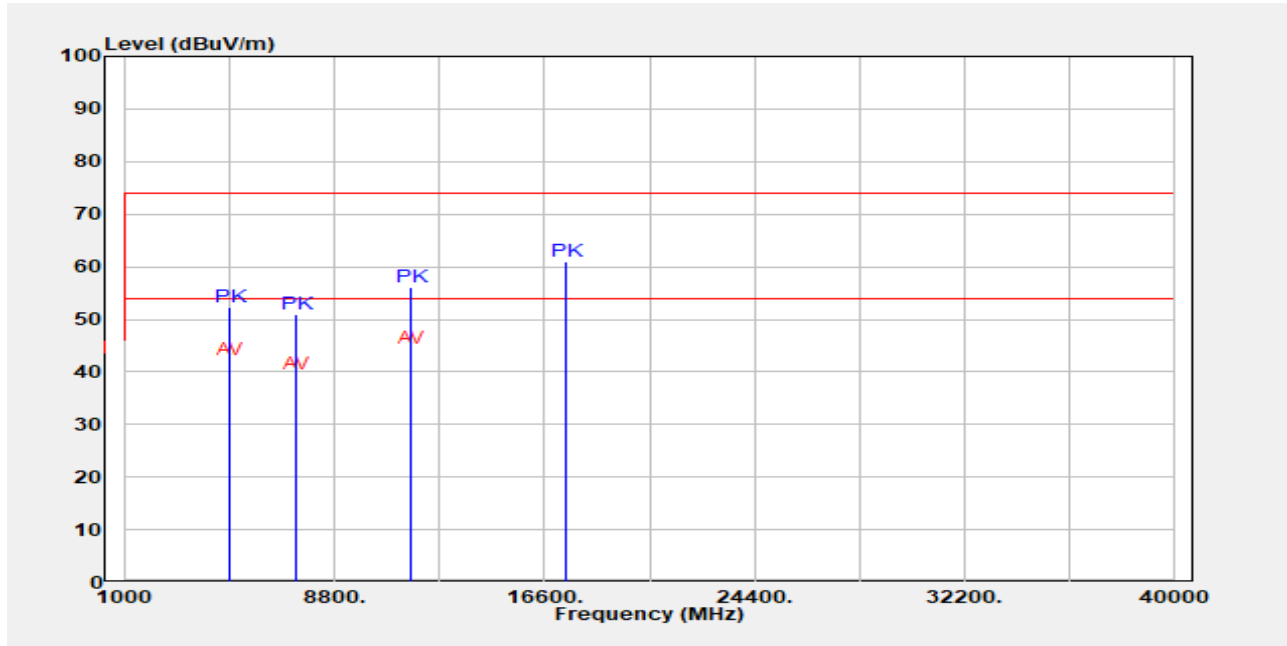
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 Test Frequency :2437 MHz+ 5795 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2025-02-20
 Temp./Humi. :23.2°C/52%
 Antenna Pol. :Horizontal
 Engineer :WJ Lin



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
4874.000	Average	38.77	3.47	42.24	54.00	-11.76
4874.000	Peak	48.93	3.47	52.40	74.00	-21.60
7311.000	Average	30.29	9.18	39.47	54.00	-14.53
7311.000	Peak	41.74	9.18	50.92	74.00	-23.08
11590.000	Average	32.48	12.00	44.48	54.00	-9.52
11590.000	Peak	44.03	12.00	56.03	74.00	-17.97
17385.000	Peak	48.39	12.60	60.99	68.20	-7.21

~ End of Report ~

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