

ELECTROMAGNETIC EMISSIONS CLASS II & IV PERMISSIVE CHANGE REPORT



Applicant: CASTLES TECHNOLOGY CO., LTD.
6F, NO. 207-5, SEC. 3, BEIXIN RD., XINDIAN DISTRICT,
NEW TAIPEI CITY 23143, TAIWAN (R.O.C)

Manufacturer: CASTLES TECHNOLOGY CO., LTD.
6F, NO. 207-5, SEC. 3, BEIXIN RD., XINDIAN DISTRICT,
NEW TAIPEI CITY 23143, TAIWAN (R.O.C)

Product Name: SLM758

Brand Name:  CASTLES TECHNOLOGY

Model No.: SLM758

Model Difference: N/A

Report Number: TERF2207001185ER

FCC ID WIYSLM758A

IC: 27350-SLM758A

Issue Date: Oct. 19, 2022

Date of Test: Aug. 03, 2022~Sep. 01, 2022

Date of EUT Received: Jul. 19, 2022

Approved By



Jim Chang

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, ISSED 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
TERF2207001185ER	00	Original.	Oct. 19, 2022	Yi-Shan Tsai	

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:	SLM758
Brand Name:	
Model No.:	SLM758
Model Difference:	N/A
Hardware Version:	V3.00
Firmware Version:	N/A
EUT Series No.:	166222201801
Product Name of Host:	POS Terminal
Brand Name of Host:	
Model No. of Host:	S1E2-L
Power Supply:	Battery 3.75Vdc Adapter 5Vdc
Test Software (Name/Version)	QRCT3 / 3.0.264.0

1.2 RF Specification

Wi-Fi 802.11	Frequency Range (MHz)	Channels	Modulation Technology
b	2412-2462	11	DSSS
g			OFDM
n_HT20			OFDM
Modulation type		CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM	
Transition Rate		802.11 b: 1/2/5.5/11 Mbps 802.11 g: 6/9/12/18/24/36/48/54 Mbps 802.11 n HT20MHz: 6.5 – 72.2 Mbps	

1.3 Antenna Designation

Antenna Type	Freq. (MHz)	Peak Antenna Gain (dBi)	Worst Antenna Gain
Dipole	2412~2462	0.611	V
Note: 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, 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 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.

2.4 Measurement Results Explanation Example

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

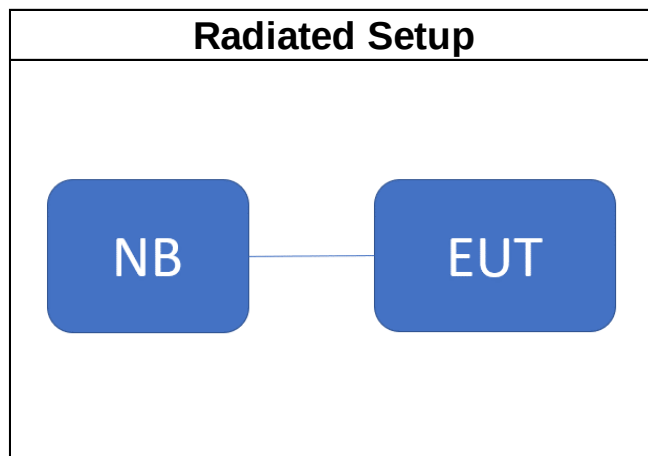
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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

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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
Notebook	Lenovo	L430	R9-WGNK5	NA	NA

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

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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 Band Edge & Radiated Spurious Emission	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

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

CHANNEL	FREQUENCY (MHz)
1	2412
2	2417
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 gevin 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

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.

RADIATED EMISSION TEST (BELOW 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11g	1 to 11	6	OFDM	6	ch0

RADIATED EMISSION TEST (ABOVE 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	1,6,11	DSSS	1	ch0
802.11g	1 to 11	1,6,11	OFDM	6	ch0
802.11n(HT20)	1 to 11	1,6,11	OFDM	MCS0	ch0

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5 MEASUREMENT UNCERTAINTY

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

Note:

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

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6 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.

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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.
Horn Antenna	SCHWARZBECK	BBHA9120D	D803	12/20/2021	12/19/2022
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT-N0555	01/03/2022	01/02/2023
Horn Antenna	SCHWARZBECK	BBHA9170	184	12/16/2021	12/15/2022
Site Cal	SGS	SAC 1	N/A	01/01/2022	12/31/2022
Loop Antenna	ETS.LINDGREN	6502	148045	09/29/2021	09/28/2022
Spectrum Analyzer	Agilent	E4446A	MY51100003	10/26/2021	10/25/2022
EMI Test Receiver	R&S	ESCI 7	100759	08/22/2022	08/21/2023
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2021	10/26/2022
Pre-Amplifier	HP	8449B	3008A01973	12/16/2021	12/15/2022
Pre-Amplifier	HP	8447D	2944A09469	12/16/2021	12/15/2022
Bandreject Filter 2400-2483.5	EWT	EWT-14-0166	M1	12/14/2021	12/13/2022
3.2GHz High Pass Filter	WI	WHKX10-2624-80SS	3	12/14/2021	12/13/2022
Coaxial Cable	Huber Suhner	succoflex 102	MY2622/2	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	succoflex 104A	800086/4a	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	EMC 104-SM-SM-2000	160123	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2630/2	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY22962/2	12/16/2021	12/15/2022

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台灣檢驗科技股份有限公司

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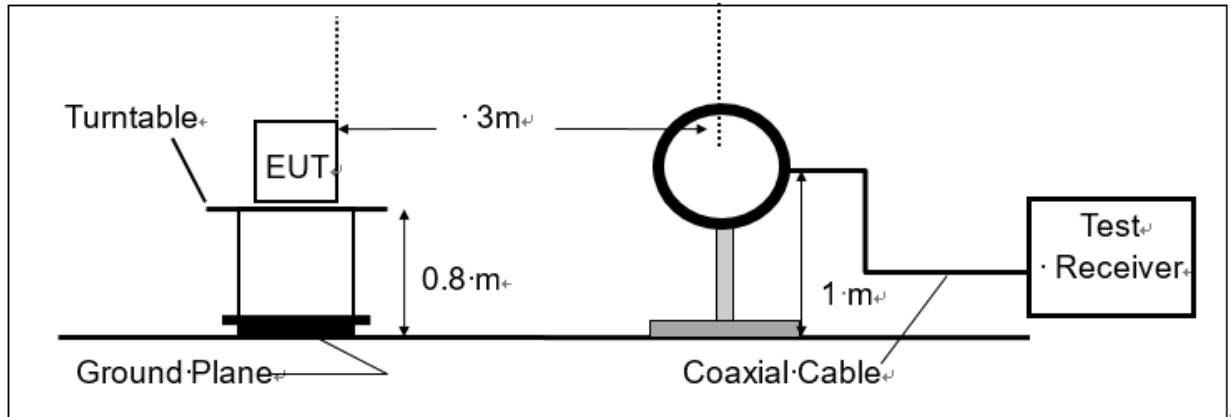
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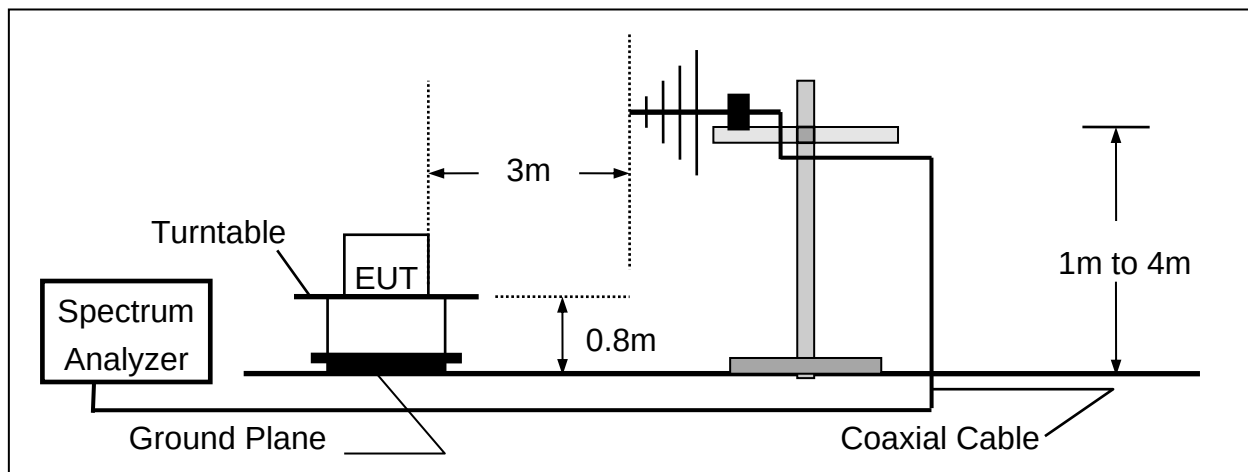
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6.3 Test Setup

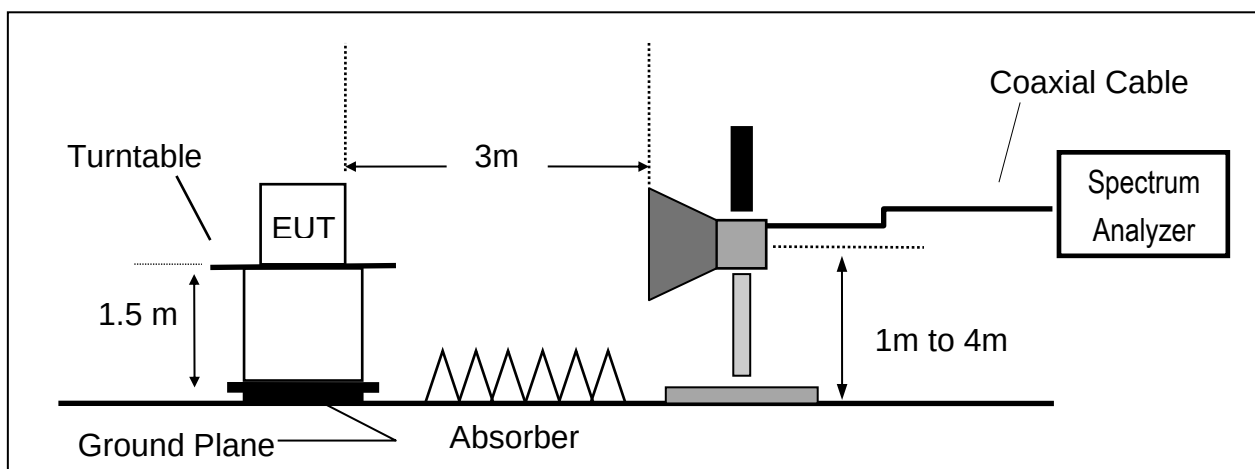
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



(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 the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
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 ≥ 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.

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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 $20 \cdot \log(uV/m)$

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + 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.
2. Measurements are completed at peak and average level, the mark of average is the highest emission in restricted bands

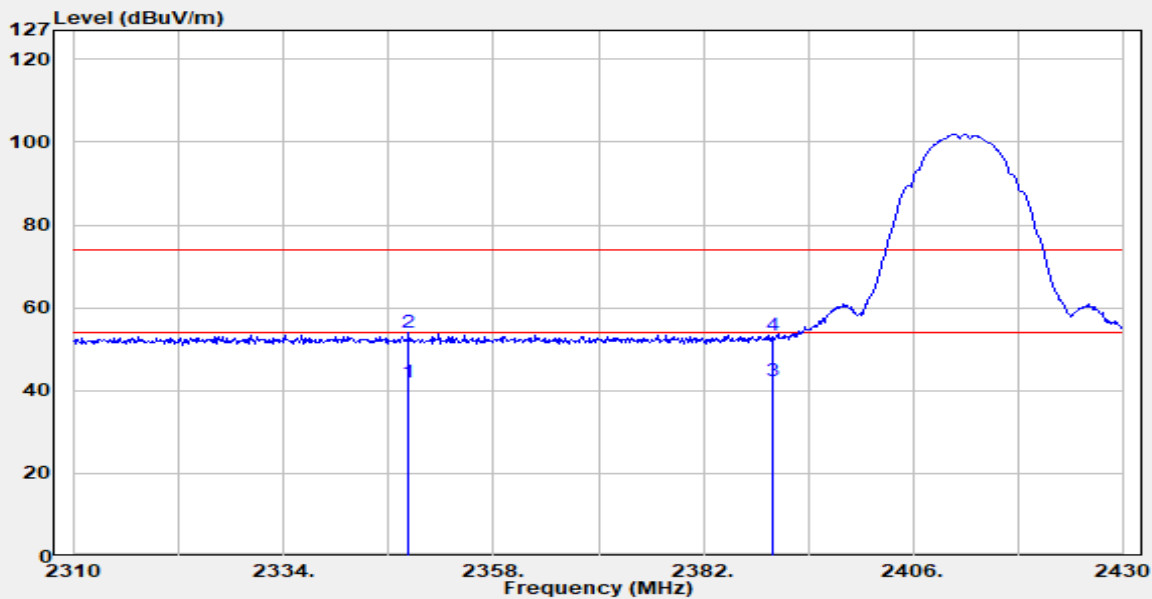
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6.7.1 Radiated Band Edge Measurement Result

Report Number :TERF2207001185ER
Operation Mode :802.11b
Test Frequency :2412 MHz
Test Mode :Bandedge
EUT Pol :E1 Plane

Test Site :SAC 1
Test Date :2022-08-31
Temp./Humi. :24.6/66
Antenna Pol. :Vertical
Engineer :GN Lin



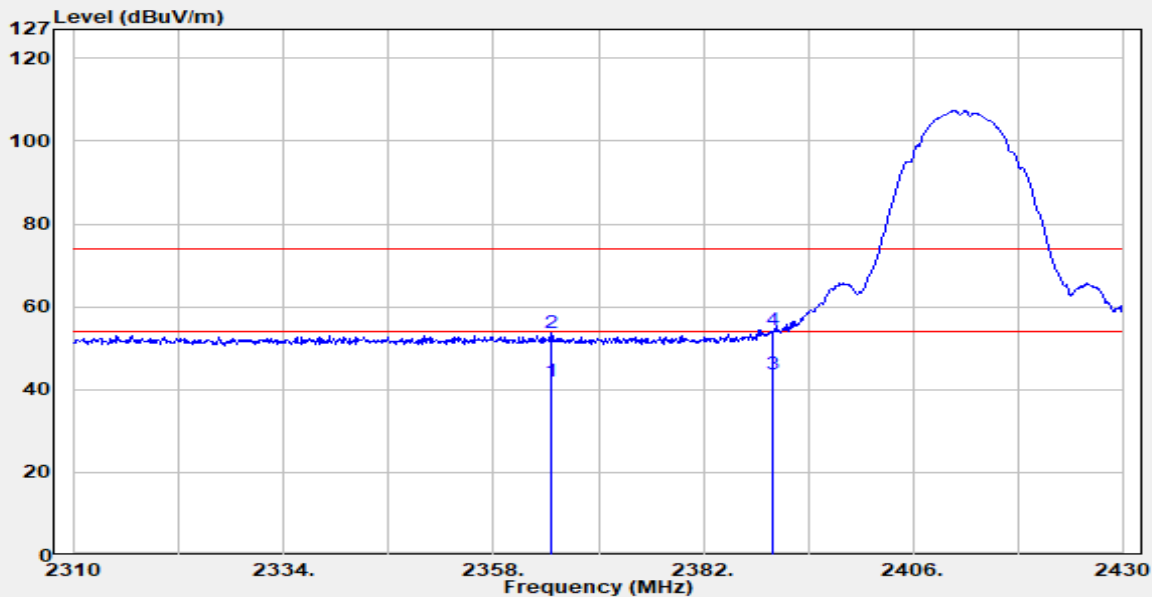
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2348.28	Average	41.48	0.53	42.01	54.00	-11.99
2348.28	Peak	53.40	0.53	53.93	74.00	-20.07
2390.00	Average	41.89	0.60	42.49	54.00	-11.51
2390.00	Peak	52.82	0.60	53.42	74.00	-20.58

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Report Number :TERF2207001185ER
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2022-08-31
 Temp./Humi. :24.6/66
 Antenna Pol. :Horizontal
 Engineer :GN Lin



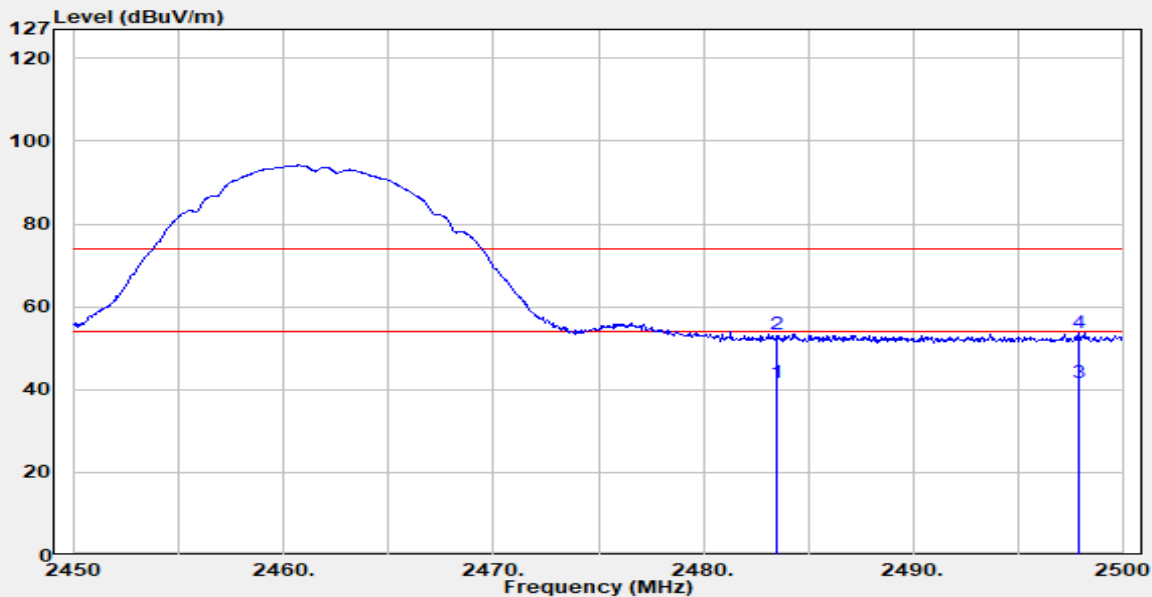
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2364.48	Average	41.30	0.56	41.86	54.00	-12.14
2364.48	Peak	53.11	0.56	53.66	74.00	-20.34
2390.00	Average	43.19	0.60	43.79	54.00	-10.21
2390.00	Peak	53.89	0.60	54.49	74.00	-19.51

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Report Number :TERF2207001185ER
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2022-08-31
 Temp./Humi. :24.6/66
 Antenna Pol. :Vertical
 Engineer :GN Lin



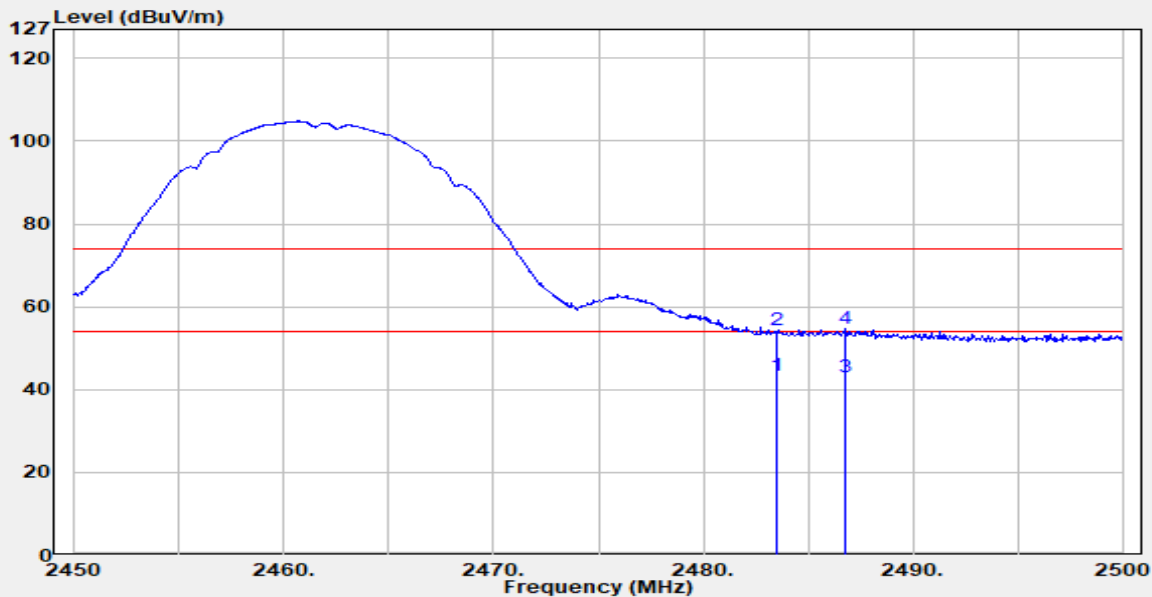
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	41.37	0.43	41.80	54.00	-12.20
2483.50	Peak	52.99	0.43	53.41	74.00	-20.59
2497.95	Average	41.25	0.51	41.76	54.00	-12.24
2497.95	Peak	53.33	0.51	53.84	74.00	-20.16

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 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2022-08-31
 Temp./Humi. :24.6/66
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
2483.50	Average	42.89	0.43	43.32	54.00	-10.68
2483.50	Peak	53.84	0.43	54.26	74.00	-19.74
2486.75	Average	42.67	0.44	43.11	54.00	-10.89
2486.75	Peak	54.45	0.44	54.89	74.00	-19.11

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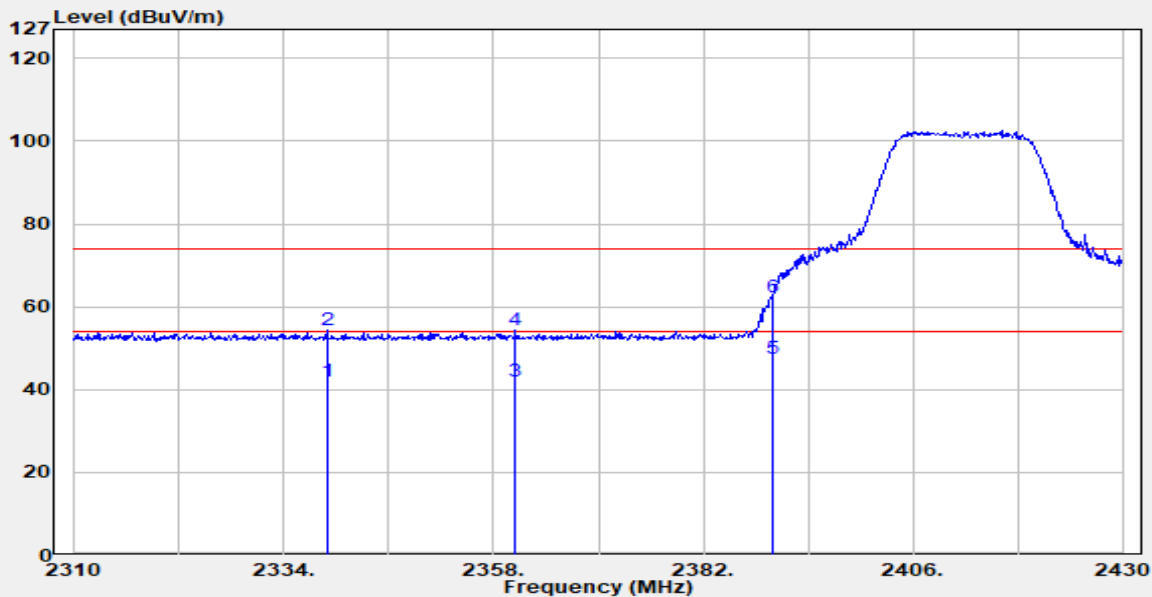
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Report Number :TERF2207001185ER
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2022-08-31
 Temp./Humi. :24.6/66
 Antenna Pol. :Vertical
 Engineer :GN Lin



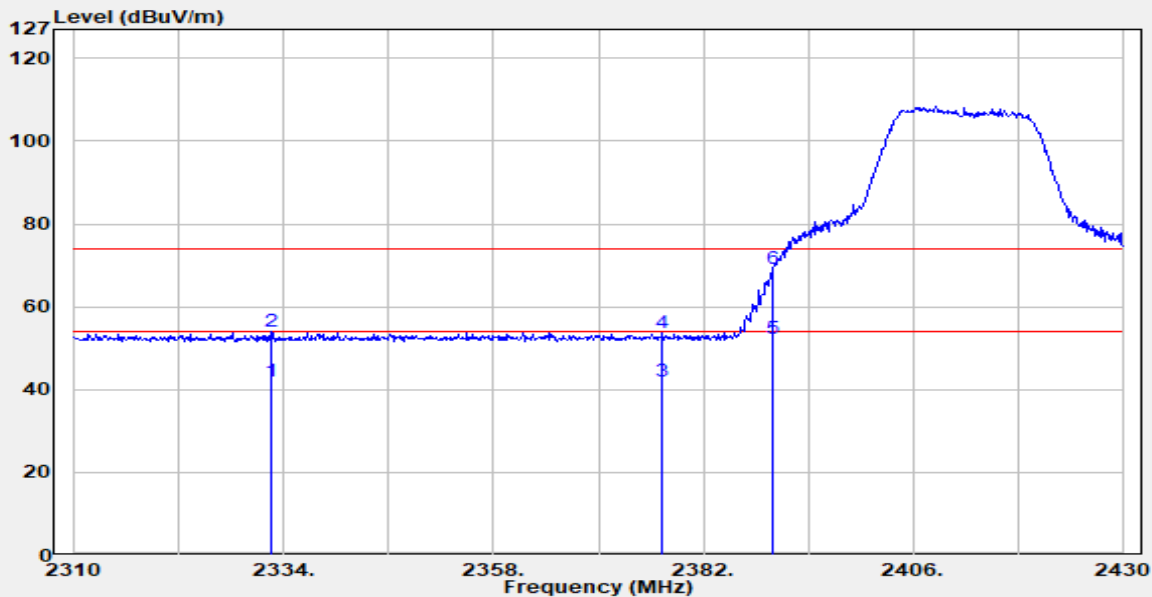
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
2338.92	Average	41.49	0.52	42.01	54.00	-11.99
2338.92	Peak	53.71	0.52	54.23	74.00	-19.77
2360.52	Average	41.47	0.55	42.02	54.00	-11.98
2360.52	Peak	53.67	0.55	54.22	74.00	-19.78
2390.00	Average	46.75	0.60	47.35	54.00	-6.65
2390.00	Peak	61.85	0.60	62.45	74.00	-11.55

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Test Site :SAC 1
Test Date :2022-08-31
Temp./Humi. :24.6/66
Antenna Pol. :Horizontal
Engineer :GN Lin



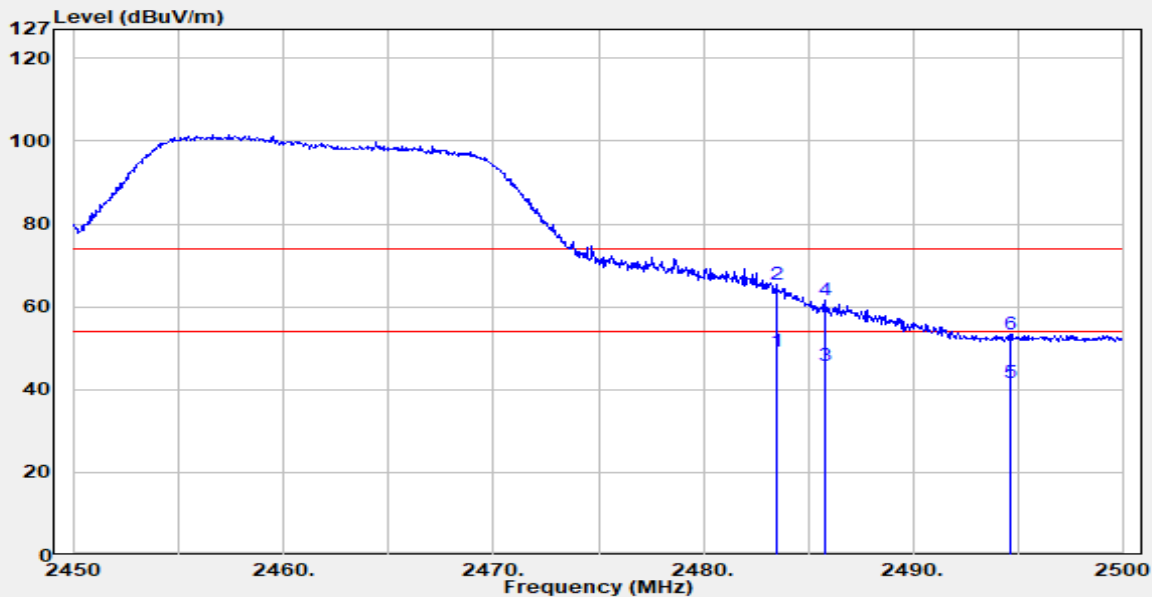
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2332.44	Average	41.42	0.52	41.94	54.00	-12.06
2332.44	Peak	53.38	0.52	53.90	74.00	-20.10
2377.32	Average	41.41	0.58	41.99	54.00	-12.01
2377.32	Peak	53.12	0.58	53.70	74.00	-20.30
2390.00	Average	51.76	0.60	52.36	54.00	-1.64
2390.00	Peak	68.51	0.60	69.11	74.00	-4.89

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Test Frequency :2462 MHz
Test Mode :Bandedge
EUT Pol :E1 Plane

Test Site :SAC 1
Test Date :2022-08-31
Temp./Humi. :24.6/66
Antenna Pol. :Vertical
Engineer :GN Lin



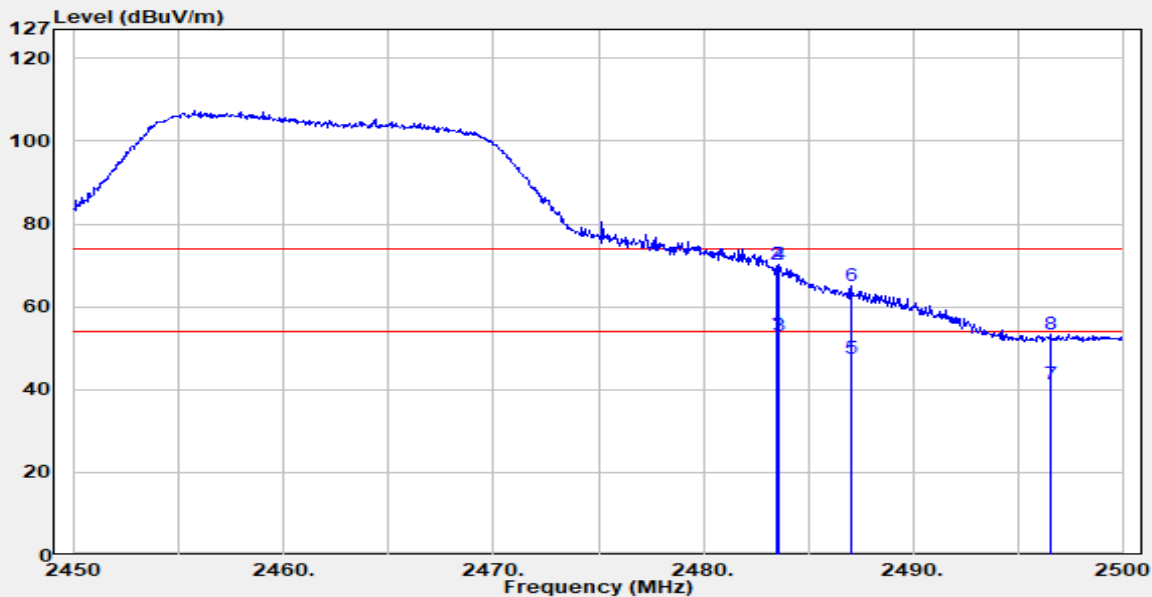
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	48.74	0.43	49.17	54.00	-4.83
2483.50	Peak	64.81	0.43	65.24	74.00	-8.76
2485.80	Average	45.22	0.44	45.66	54.00	-8.34
2485.80	Peak	61.01	0.44	61.45	74.00	-12.55
2494.70	Average	41.27	0.49	41.76	54.00	-12.24
2494.70	Peak	52.71	0.49	53.20	74.00	-20.80

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Report Number :TERF2207001185ER
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2022-08-31
 Temp./Humi. :24.6/66
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
2483.50	Average	53.21	0.43	53.64	54.00	-0.36
2483.50	Peak	69.87	0.43	70.30	74.00	-3.70
2483.65	Average	52.73	0.43	53.16	54.00	-0.84
2483.65	Peak	69.74	0.43	70.17	74.00	-3.83
2487.05	Average	47.17	0.45	47.62	54.00	-6.38
2487.05	Peak	64.53	0.45	64.98	74.00	-9.02
2496.60	Average	40.95	0.50	41.45	54.00	-12.55
2496.60	Peak	52.89	0.50	53.39	74.00	-20.61

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t (886-2) 2299-3279

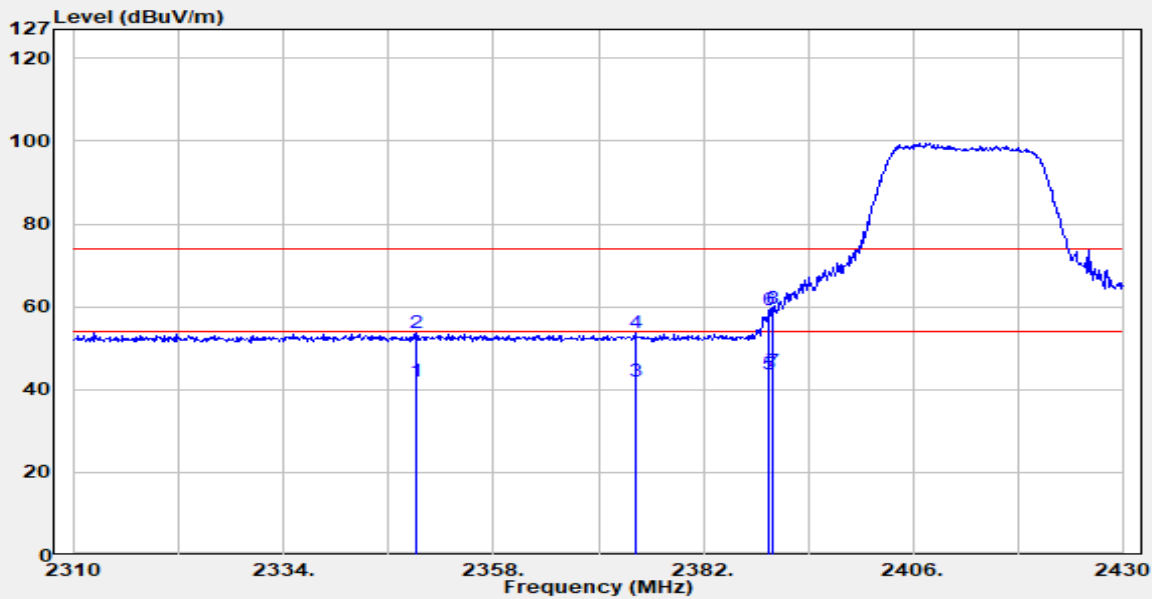
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Report Number :TERF2207001185ER
Operation Mode :802.11n20
Test Frequency :2412 MHz
Test Mode :Bandedge
EUT Pol :E1 Plane

Test Site :SAC 1
Test Date :2022-08-31
Temp./Humi. :24.6/66
Antenna Pol. :Vertical
Engineer :GN Lin



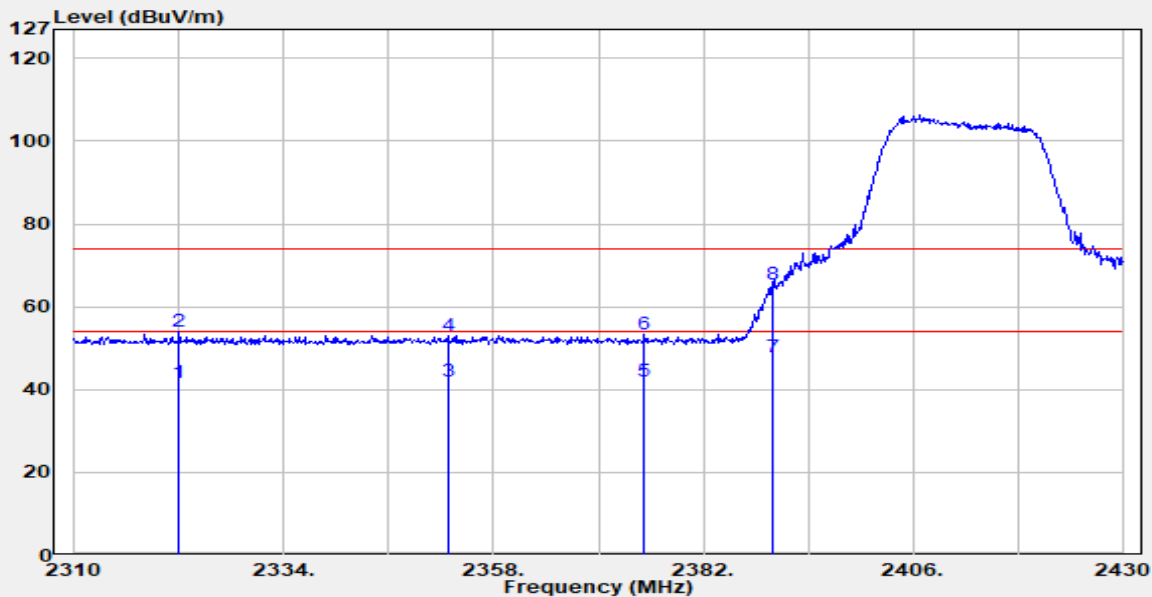
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2349.12	Average	41.39	0.53	41.92	54.00	-12.08
2349.12	Peak	53.25	0.53	53.79	74.00	-20.21
2374.20	Average	41.44	0.57	42.01	54.00	-11.99
2374.20	Peak	53.06	0.57	53.63	74.00	-20.37
2389.56	Average	43.18	0.60	43.78	54.00	-10.22
2389.56	Peak	58.73	0.60	59.33	74.00	-14.67
2390.00	Average	43.88	0.60	44.48	54.00	-9.52
2390.00	Peak	58.90	0.60	59.50	74.00	-14.50

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Report Number :TERF2207001185ER
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2022-08-31
 Temp./Humi. :24.6/66
 Antenna Pol. :Horizontal
 Engineer :GN Lin



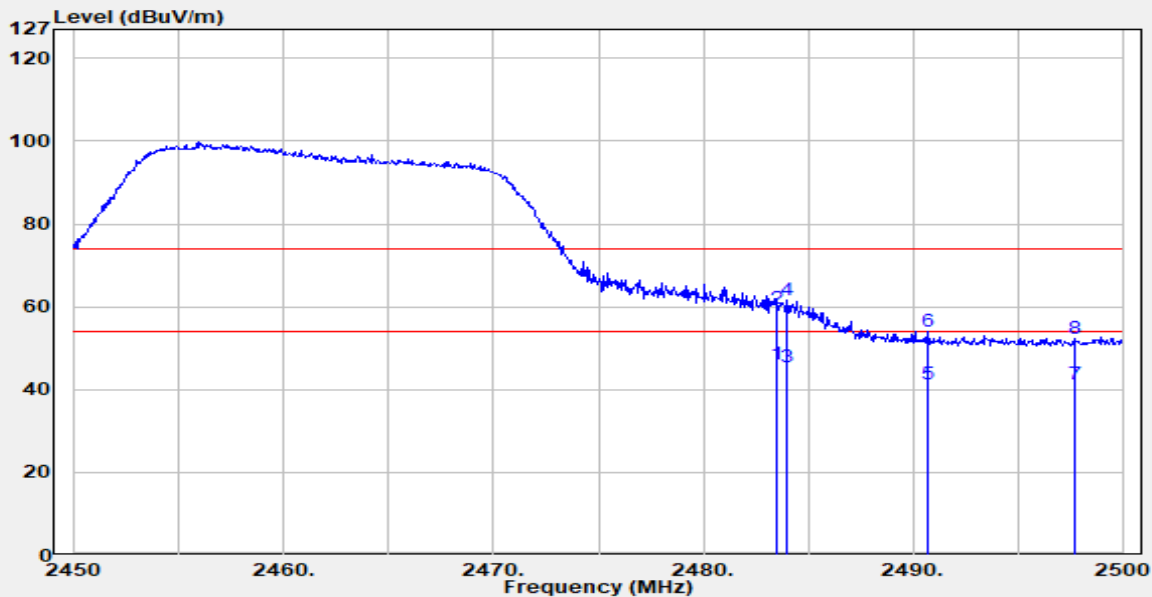
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2322.00	Average	41.24	0.51	41.75	54.00	-12.25
2322.00	Peak	53.38	0.51	53.88	74.00	-20.12
2352.72	Average	41.36	0.54	41.90	54.00	-12.10
2352.72	Peak	52.35	0.54	52.88	74.00	-21.12
2375.28	Average	41.41	0.57	41.98	54.00	-12.02
2375.28	Peak	52.65	0.57	53.22	74.00	-20.78
2390.00	Average	47.21	0.60	47.81	54.00	-6.19
2390.00	Peak	64.72	0.60	65.32	74.00	-8.68

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Report Number :TERF2207001185ER
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2022-08-31
 Temp./Humi. :24.6/66
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
2483.50	Average	45.65	0.43	46.08	54.00	-7.92
2483.50	Peak	59.11	0.43	59.53	74.00	-14.47
2484.00	Average	45.01	0.43	45.44	54.00	-8.56
2484.00	Peak	61.07	0.43	61.50	74.00	-12.50
2490.70	Average	40.99	0.47	41.46	54.00	-12.54
2490.70	Peak	53.65	0.47	54.12	74.00	-19.88
2497.70	Average	40.84	0.51	41.35	54.00	-12.65
2497.70	Peak	51.96	0.51	52.46	74.00	-21.54

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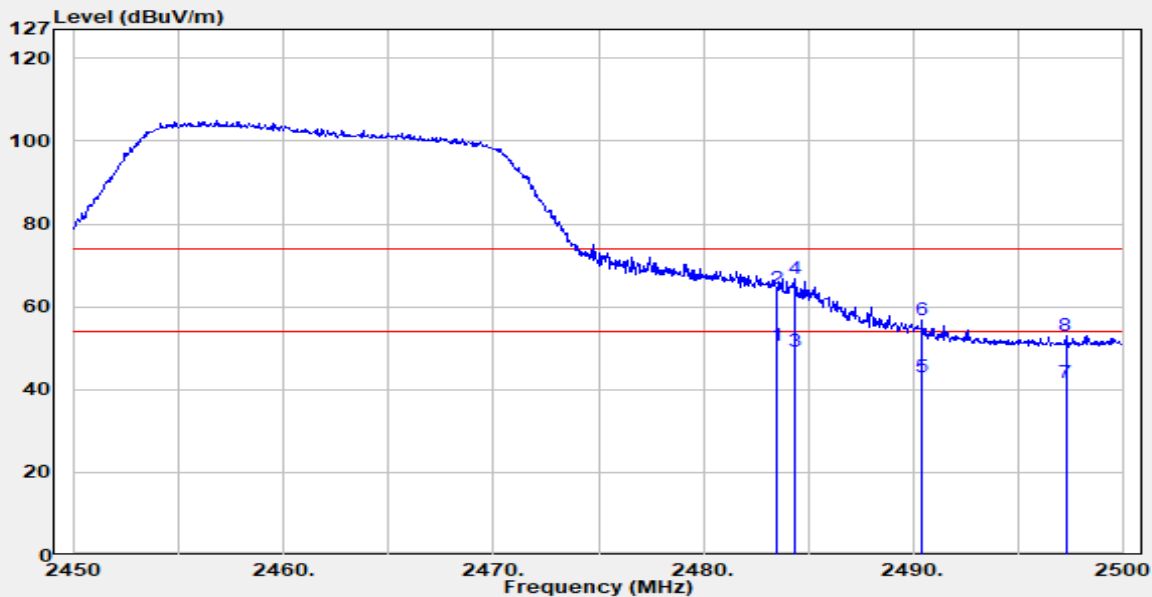
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Report Number :TERF2207001185ER
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2022-08-31
 Temp./Humi. :24.6/66
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
2483.50	Average	50.15	0.43	50.58	54.00	-3.42
2483.50	Peak	63.95	0.43	64.38	74.00	-9.62
2484.35	Average	48.80	0.43	49.23	54.00	-4.77
2484.35	Peak	66.48	0.43	66.91	74.00	-7.09
2490.45	Average	42.52	0.47	42.99	54.00	-11.01
2490.45	Peak	56.28	0.47	56.75	74.00	-17.25
2497.30	Average	41.26	0.51	41.77	54.00	-12.23
2497.30	Peak	52.34	0.51	52.85	74.00	-21.15

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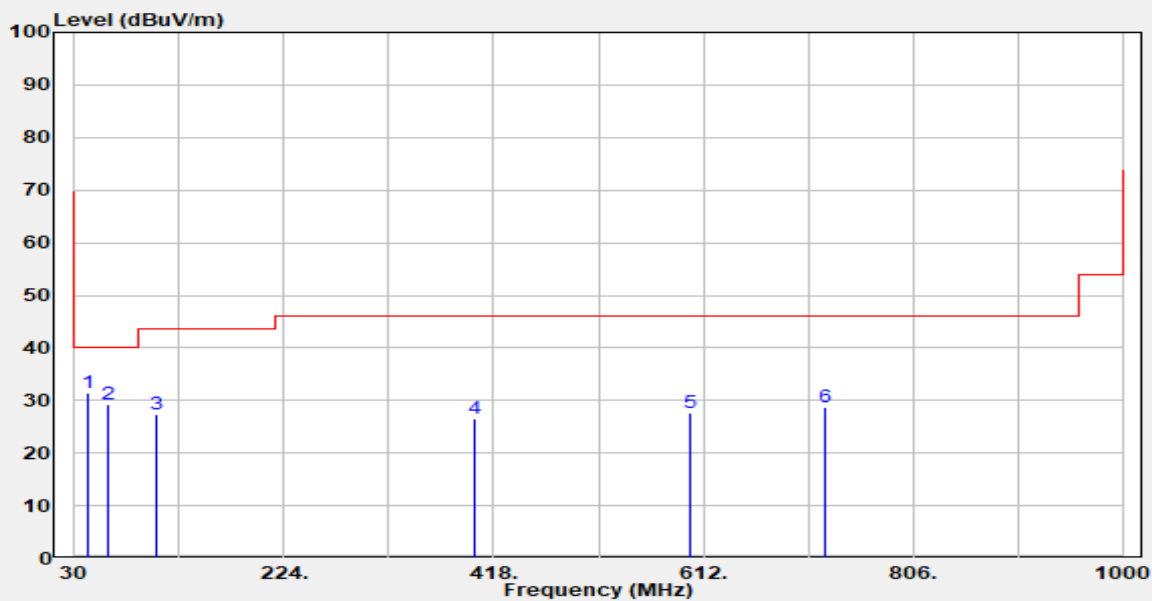
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6.7.2 Spurious Emission:

Report Number :TERF2207001185ER
Operation Mode :802.11g
Test Frequency :2437 MHz
Test Mode :Tx
EUT Pol :E1 Plane

Test Site :SAC 1
Test Date :2022-09-01
Temp./Humi. :25.1/66
Antenna Pol. :Vertical
Engineer :Jack Liu



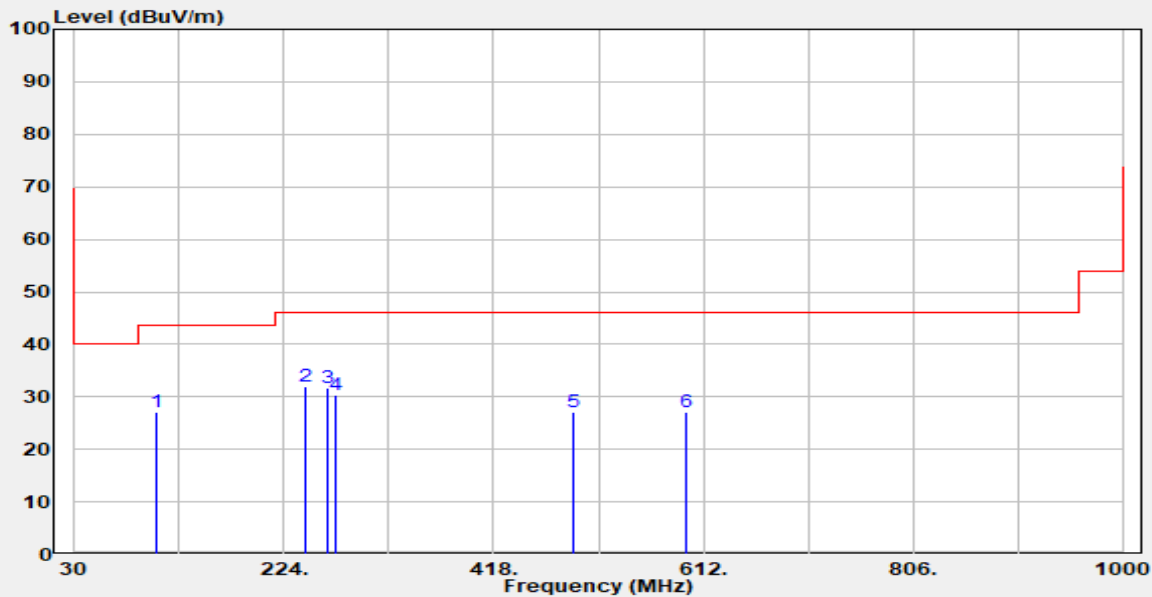
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
41.64	Peak	43.30	-11.89	31.41	40.00	-8.59
61.04	Peak	47.46	-18.17	29.29	40.00	-10.71
105.66	Peak	39.80	-12.50	27.30	43.50	-16.20
399.57	Peak	33.33	-6.81	26.53	46.00	-19.47
600.36	Peak	31.09	-3.34	27.76	46.00	-18.24
724.52	Peak	31.93	-3.21	28.72	46.00	-17.28

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Report Number :TERF2207001185ER
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2022-09-01
 Temp./Humi. :25.1/66
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



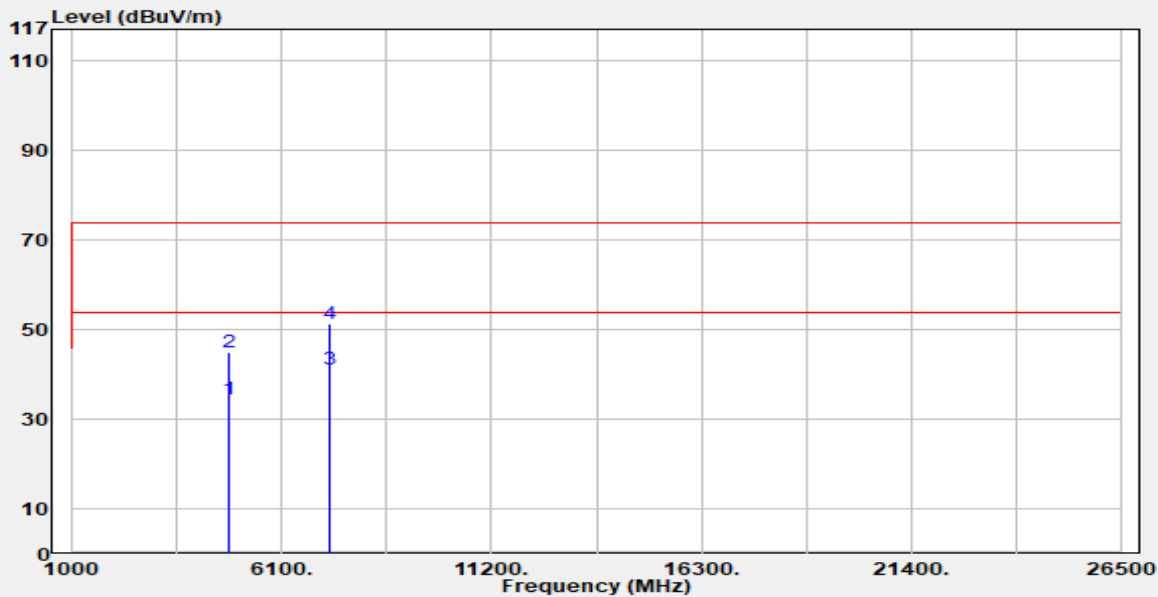
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
106.63	Peak	39.49	-12.36	27.14	43.50	-16.36
243.40	Peak	42.99	-11.02	31.97	46.00	-14.03
264.74	Peak	40.78	-9.18	31.60	46.00	-14.40
271.53	Peak	40.13	-9.74	30.39	46.00	-15.61
491.72	Peak	32.53	-5.35	27.19	46.00	-18.81
596.48	Peak	30.71	-3.58	27.13	46.00	-18.87

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Report Number :TERF2207001185ER
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2022-09-01
 Temp./Humi. :25.1/66
 Antenna Pol. :Vertical
 Engineer :Jack Liu



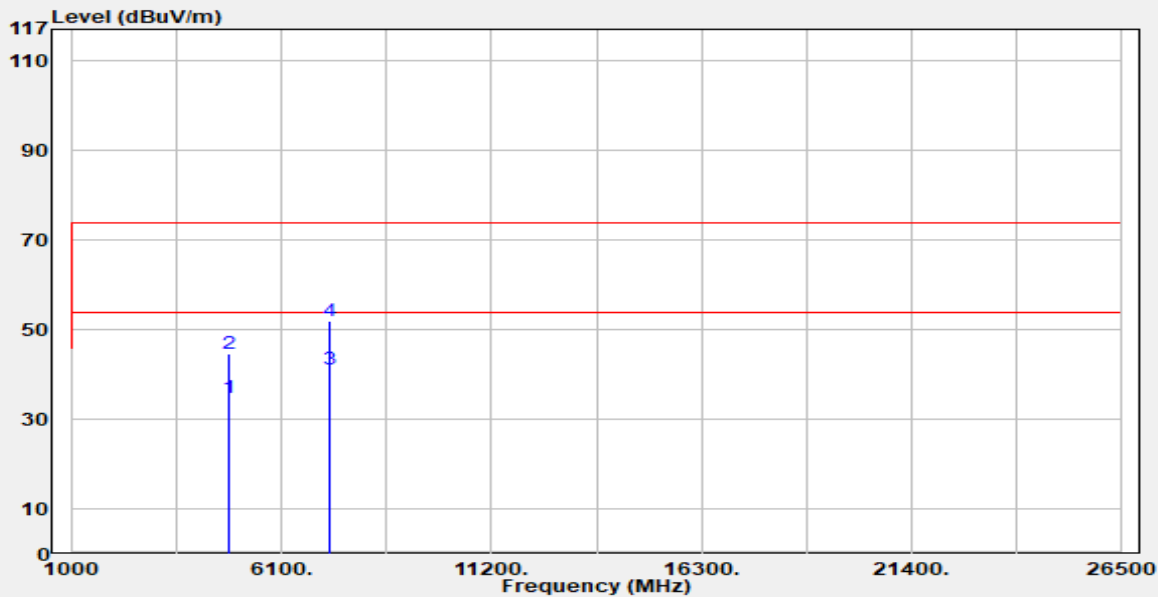
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4824.00	Average	26.43	8.00	34.43	54.00	-19.57
4824.00	Peak	36.91	8.00	44.91	74.00	-29.09
7236.00	Average	26.02	15.26	41.28	54.00	-12.72
7236.00	Peak	36.25	15.26	51.51	74.00	-22.49

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Report Number :TERF2207001185ER
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2022-09-01
 Temp./Humi. :25.1/66
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



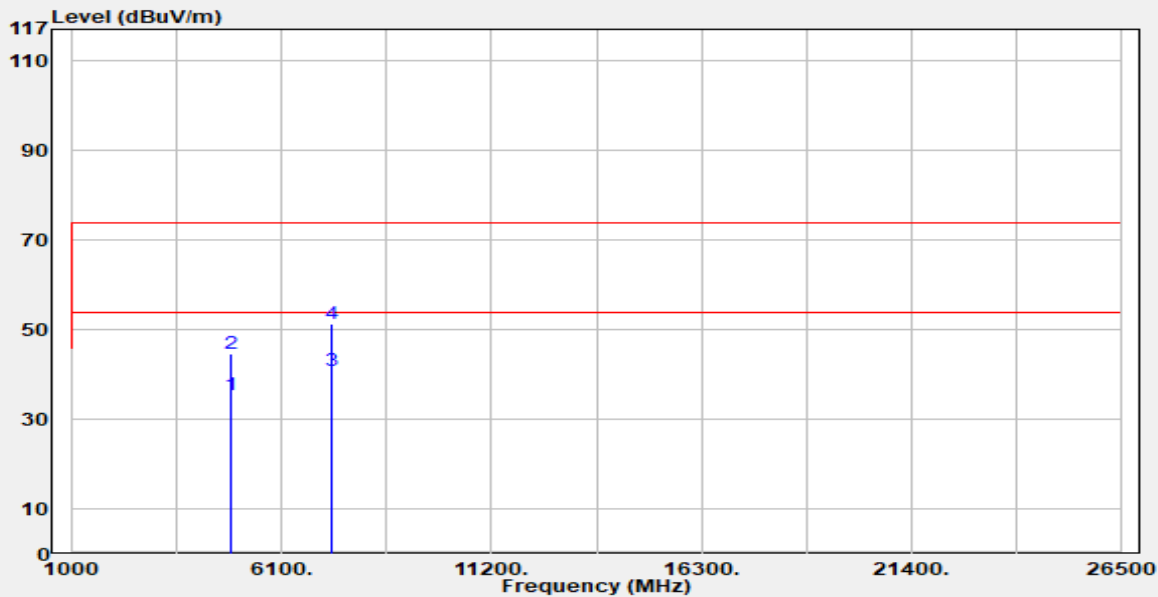
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.00	Average	26.95	8.00	34.95	54.00	-19.05
4824.00	Peak	36.64	8.00	44.64	74.00	-29.36
7236.00	Average	26.01	15.26	41.27	54.00	-12.73
7236.00	Peak	36.67	15.26	51.93	74.00	-22.07

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Report Number :TERF2207001185ER
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2022-09-01
 Temp./Humi. :25.1/66
 Antenna Pol. :Vertical
 Engineer :Jack Liu



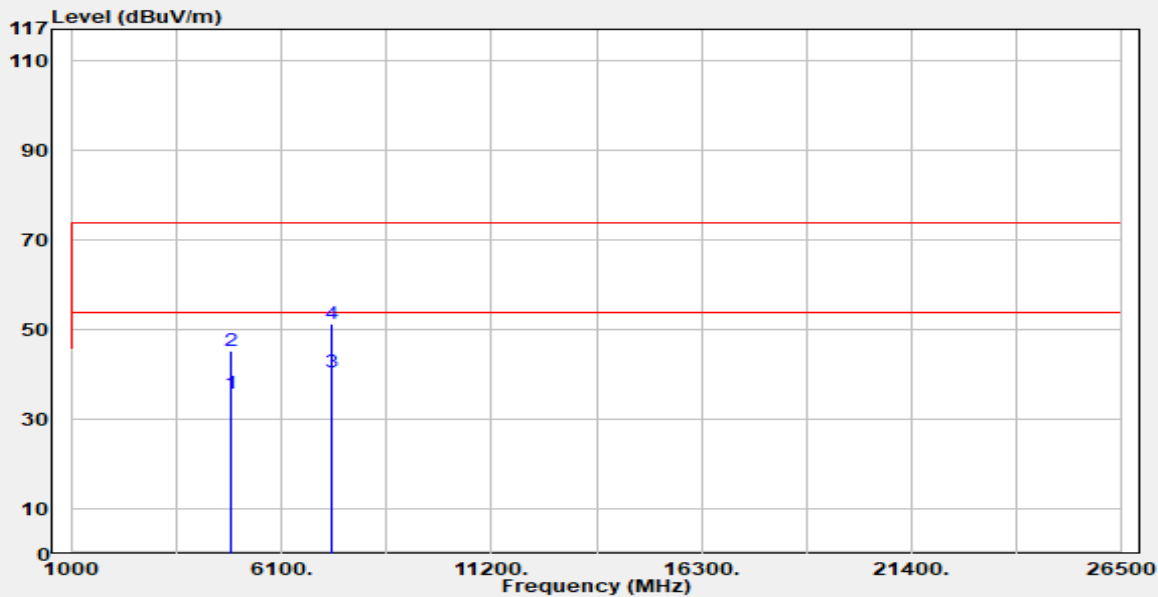
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	Average	27.53	7.94	35.47	54.00	-18.53
4874.00	Peak	36.87	7.94	44.81	74.00	-29.19
7311.00	Average	25.41	15.34	40.75	54.00	-13.25
7311.00	Peak	35.99	15.34	51.33	74.00	-22.67

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Report Number :TERF2207001185ER
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2022-09-01
 Temp./Humi. :25.1/66
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



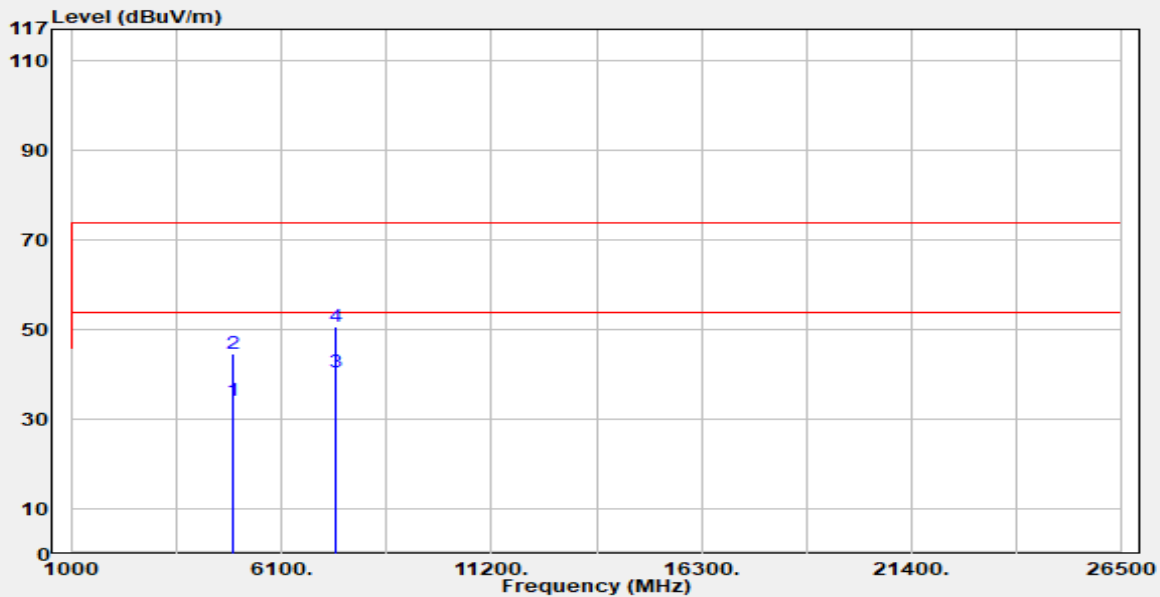
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	Average	28.02	7.94	35.96	54.00	-18.04
4874.00	Peak	37.44	7.94	45.38	74.00	-28.62
7311.00	Average	25.39	15.34	40.73	54.00	-13.27
7311.00	Peak	36.16	15.34	51.50	74.00	-22.50

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Report Number :TERF2207001185ER
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2022-09-01
 Temp./Humi. :25.1/66
 Antenna Pol. :Vertical
 Engineer :Jack Liu



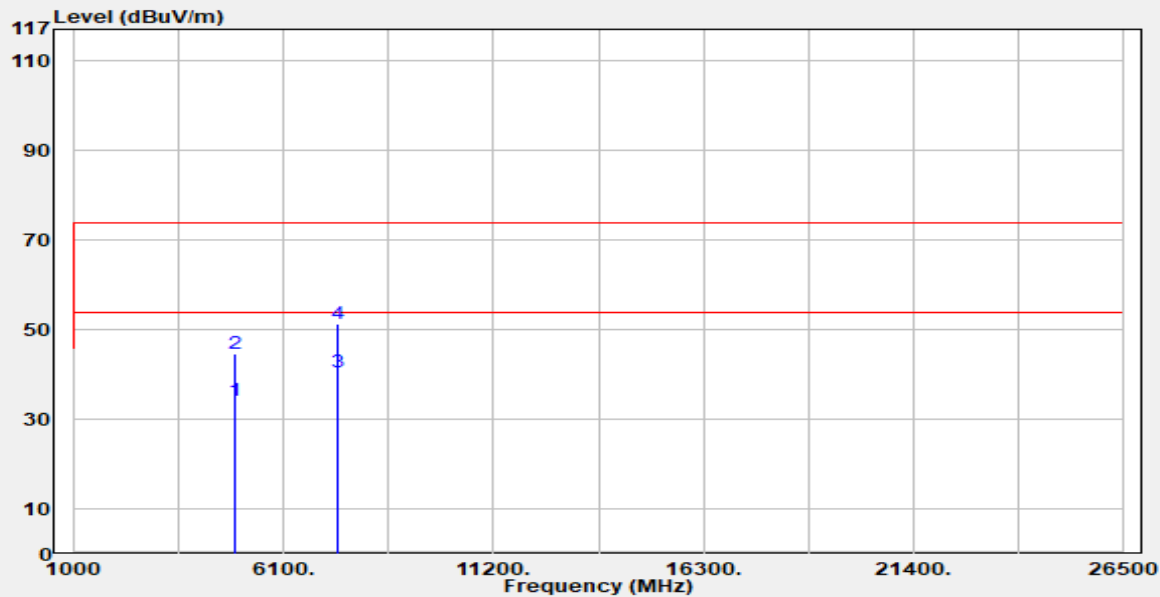
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4924.00	Average	26.24	7.89	34.13	54.00	-19.87
4924.00	Peak	36.77	7.89	44.66	74.00	-29.34
7386.00	Average	25.29	15.29	40.58	54.00	-13.42
7386.00	Peak	35.52	15.29	50.81	74.00	-23.19

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Report Number :TERF2207001185ER
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2022-09-01
 Temp./Humi. :25.1/66
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



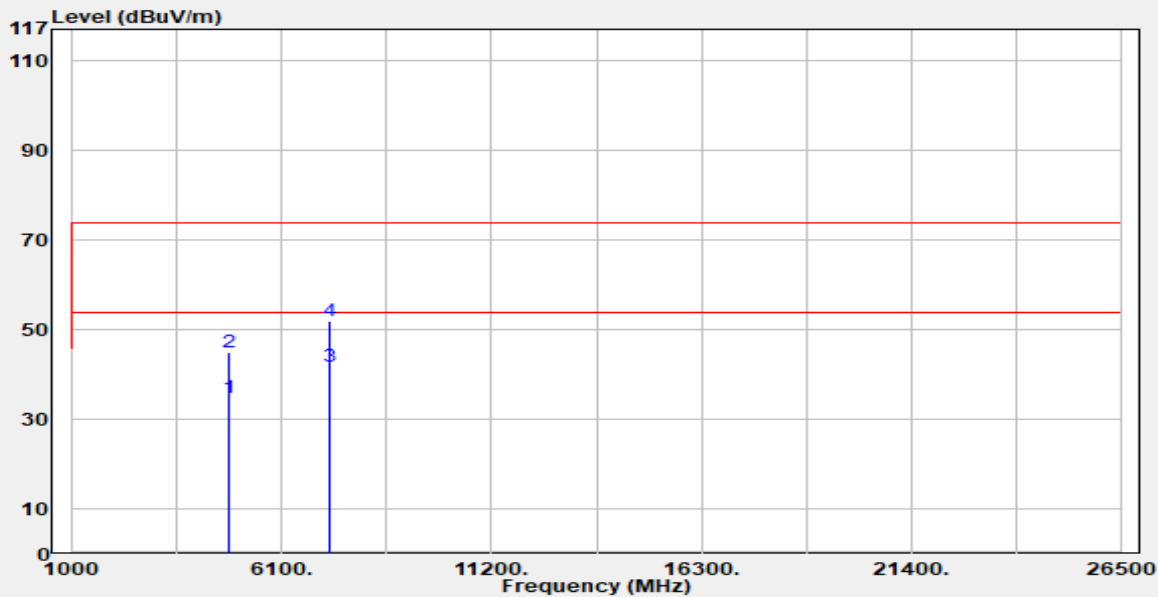
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4924.00	Average	26.38	7.89	34.27	54.00	-19.73
4924.00	Peak	36.73	7.89	44.62	74.00	-29.38
7386.00	Average	25.27	15.29	40.56	54.00	-13.44
7386.00	Peak	36.15	15.29	51.44	74.00	-22.56

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Report Number :TERF2207001185ER
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2022-09-01
 Temp./Humi. :25.1/66
 Antenna Pol. :Vertical
 Engineer :Jack Liu



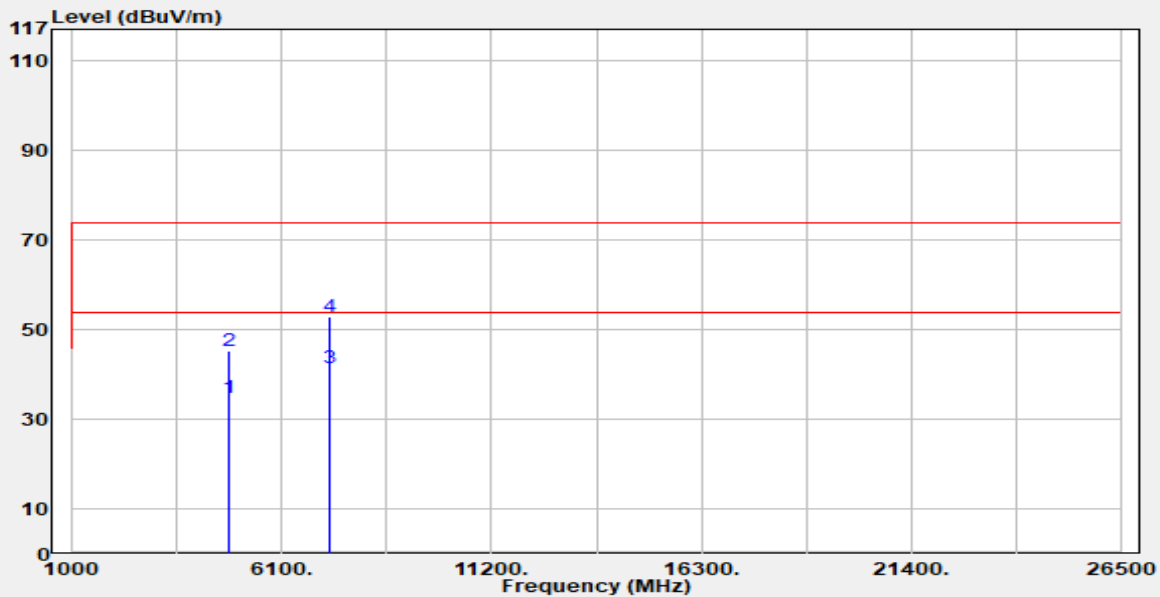
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.00	Average	26.86	8.00	34.86	54.00	-19.14
4824.00	Peak	37.18	8.00	45.18	74.00	-28.82
7236.00	Average	26.48	15.26	41.74	54.00	-12.26
7236.00	Peak	36.68	15.26	51.94	74.00	-22.06

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Report Number :TERF2207001185ER
Operation Mode :802.11g
Test Frequency :2412 MHz
Test Mode :Tx
EUT Pol :E1 Plane

Test Site :SAC 1
Test Date :2022-09-01
Temp./Humi. :25.1/66
Antenna Pol. :Horizontal
Engineer :Jack Liu



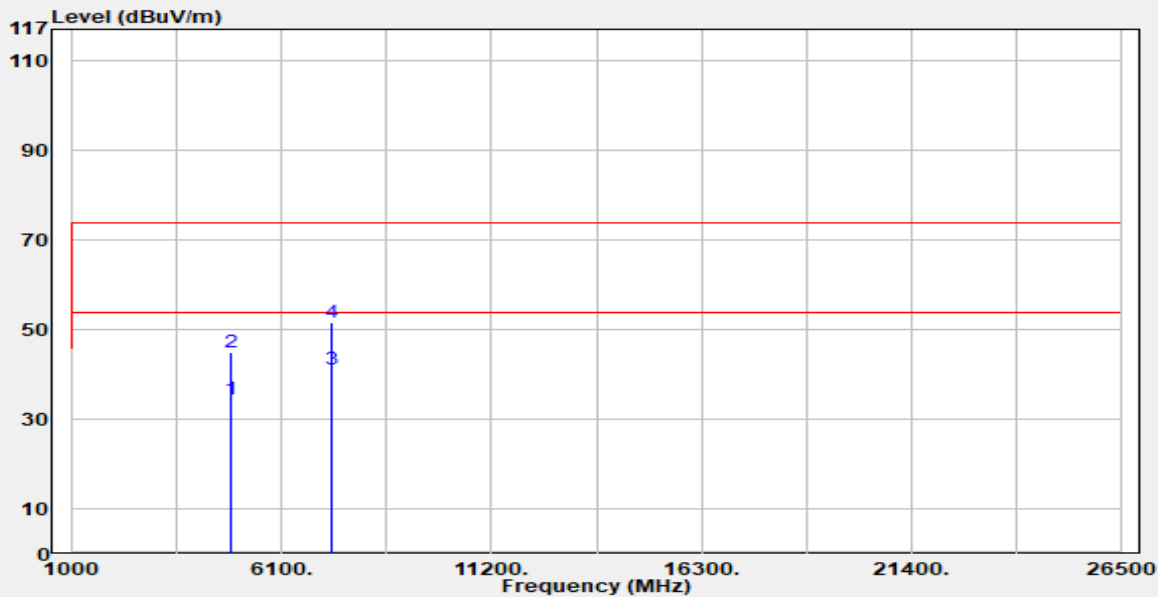
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.00	Average	26.81	8.00	34.81	54.00	-19.19
4824.00	Peak	37.40	8.00	45.40	74.00	-28.60
7236.00	Average	26.28	15.26	41.54	54.00	-12.46
7236.00	Peak	37.85	15.26	53.11	74.00	-20.89

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Report Number :TERF2207001185ER
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2022-09-01
 Temp./Humi. :25.1/66
 Antenna Pol. :Vertical
 Engineer :Jack Liu



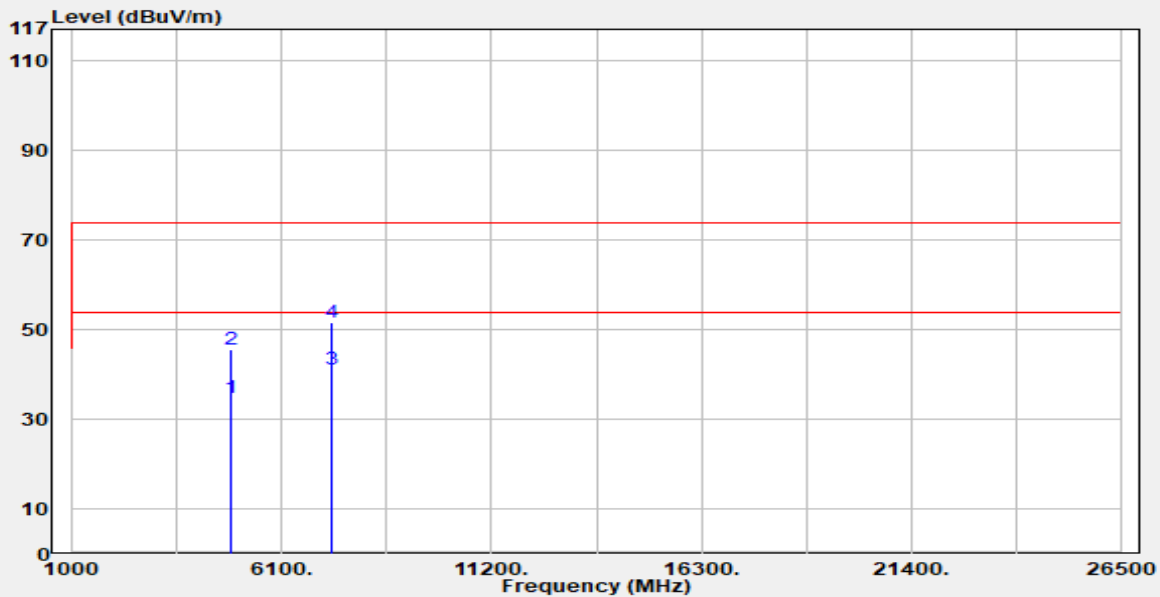
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	Average	26.64	7.94	34.58	54.00	-19.42
4874.00	Peak	37.16	7.94	45.10	74.00	-28.90
7311.00	Average	25.98	15.34	41.32	54.00	-12.68
7311.00	Peak	36.26	15.34	51.60	74.00	-22.40

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Report Number :TERF2207001185ER
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2022-09-01
 Temp./Humi. :25.1/66
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



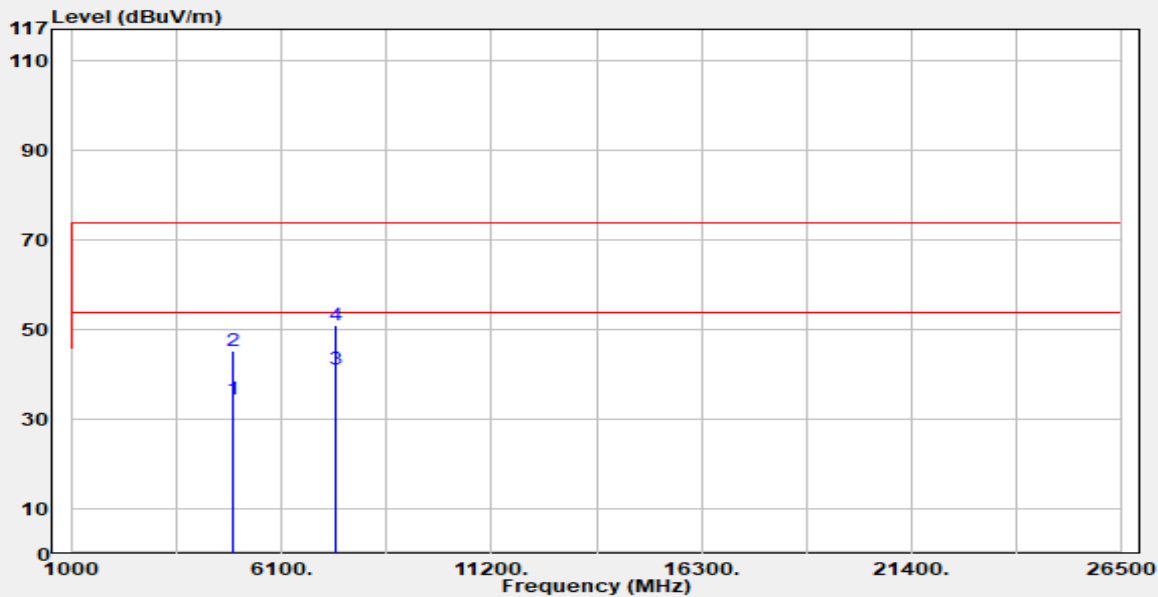
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	Average	26.87	7.94	34.81	54.00	-19.19
4874.00	Peak	37.61	7.94	45.55	74.00	-28.45
7311.00	Average	26.01	15.34	41.35	54.00	-12.65
7311.00	Peak	36.20	15.34	51.54	74.00	-22.46

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Report Number :TERF2207001185ER
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2022-09-01
 Temp./Humi. :25.1/66
 Antenna Pol. :Vertical
 Engineer :Jack Liu



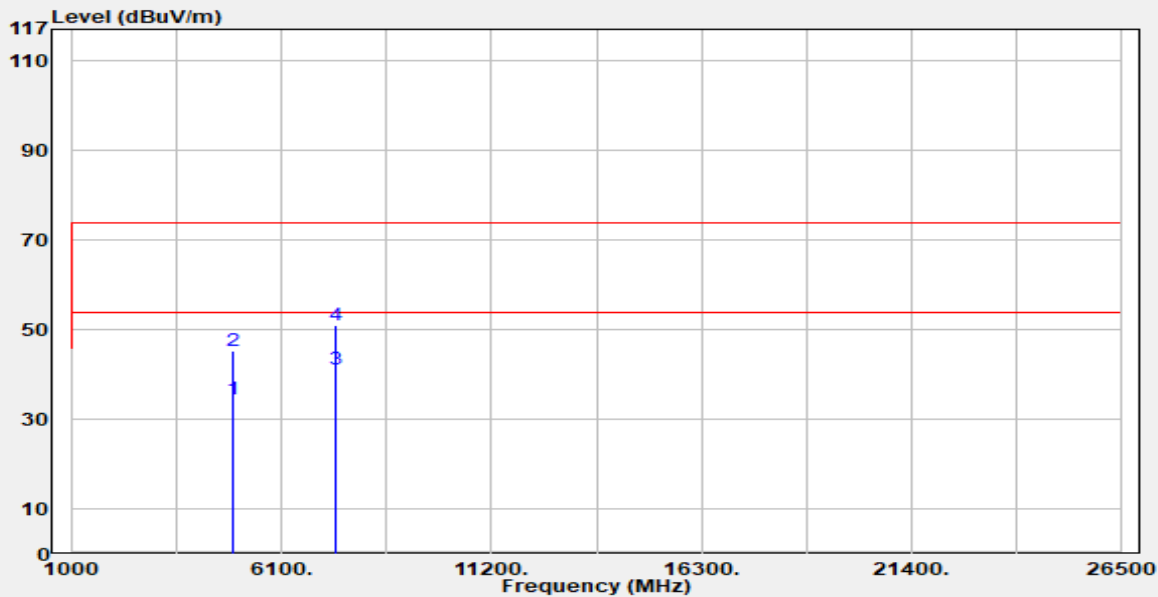
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.00	Average	26.71	7.89	34.60	54.00	-19.40
4924.00	Peak	37.30	7.89	45.19	74.00	-28.81
7386.00	Average	25.87	15.29	41.16	54.00	-12.84
7386.00	Peak	35.84	15.29	51.13	74.00	-22.87

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Report Number :TERF2207001185ER
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2022-09-01
 Temp./Humi. :25.1/66
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



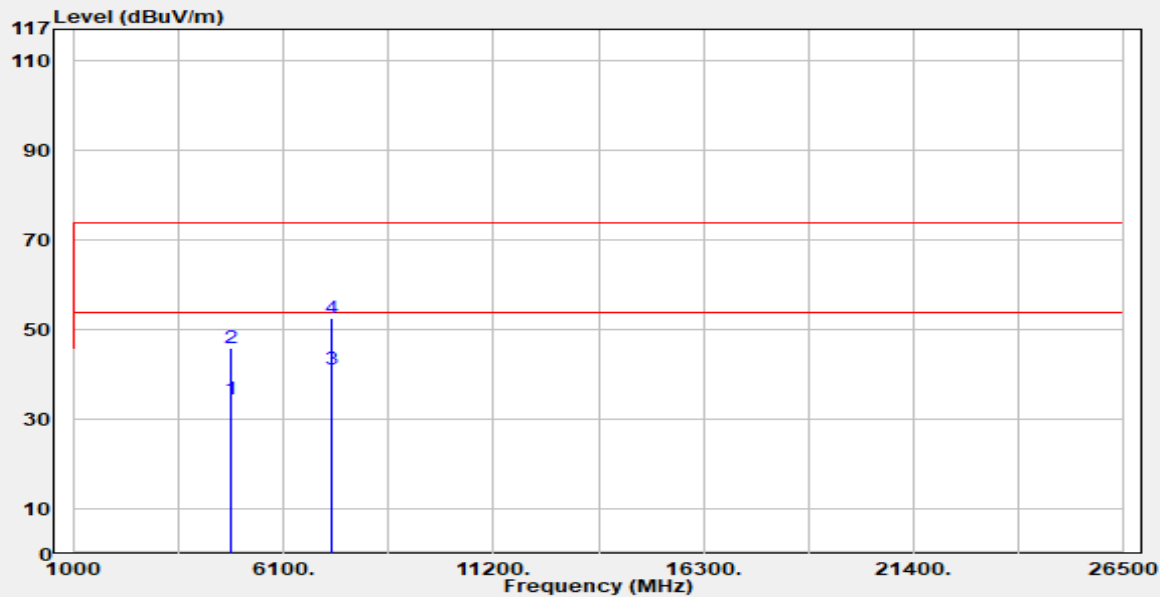
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.00	Average	26.75	7.89	34.64	54.00	-19.36
4924.00	Peak	37.39	7.89	45.28	74.00	-28.72
7386.00	Average	25.78	15.29	41.07	54.00	-12.93
7386.00	Peak	35.86	15.29	51.15	74.00	-22.85

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Report Number :TERF2207001185ER
Operation Mode :802.11n20
Test Frequency :2412 MHz
Test Mode :Tx
EUT Pol :E1 Plane

Test Site :SAC 1
Test Date :2022-09-01
Temp./Humi. :25.1/66
Antenna Pol. :Vertical
Engineer :Jack Liu



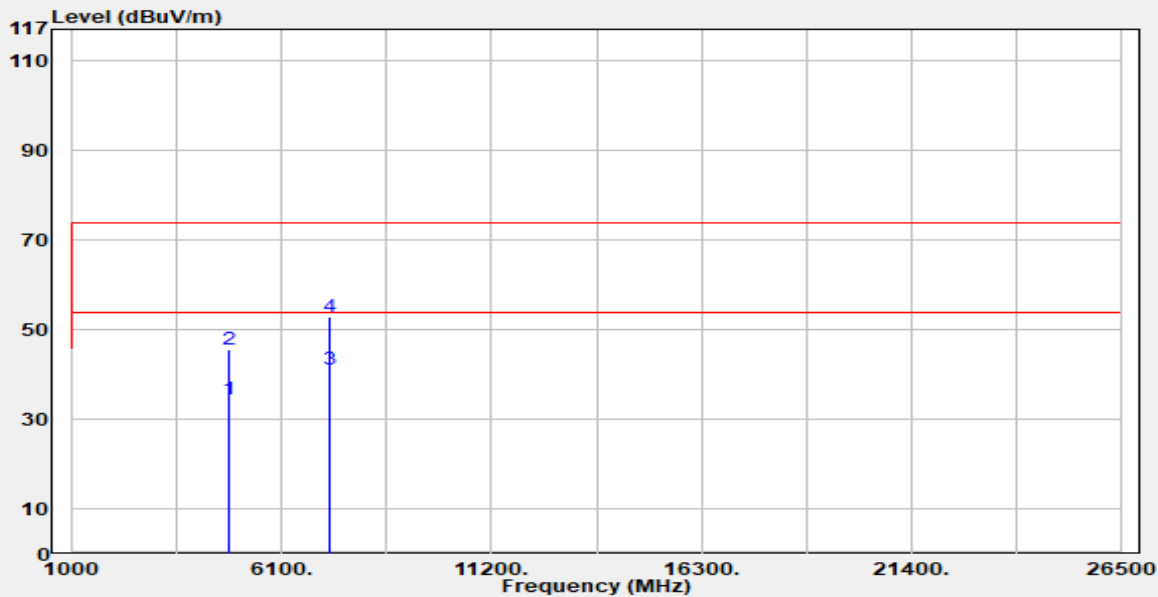
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4824.00	Average	26.51	8.00	34.51	54.00	-19.49
4824.00	Peak	38.00	8.00	46.00	74.00	-28.00
7236.00	Average	25.98	15.26	41.24	54.00	-12.76
7236.00	Peak	37.30	15.26	52.56	74.00	-21.44

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Report Number :TERF2207001185ER
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2022-09-01
 Temp./Humi. :25.1/66
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4824.00	Average	26.48	8.00	34.48	54.00	-19.52
4824.00	Peak	37.65	8.00	45.65	74.00	-28.35
7236.00	Average	25.96	15.26	41.22	54.00	-12.78
7236.00	Peak	37.54	15.26	52.80	74.00	-21.20

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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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

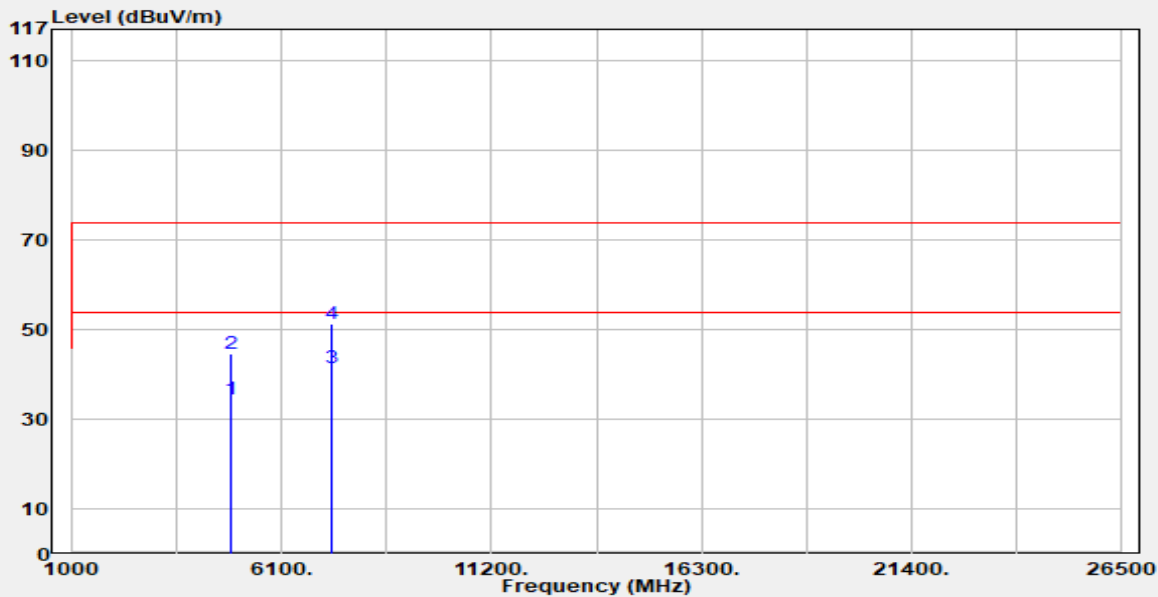
f (886-2) 2298-0488

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Report Number :TERF2207001185ER
 Operation Mode :802.11n20
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2022-09-01
 Temp./Humi. :25.1/66
 Antenna Pol. :Vertical
 Engineer :Jack Liu



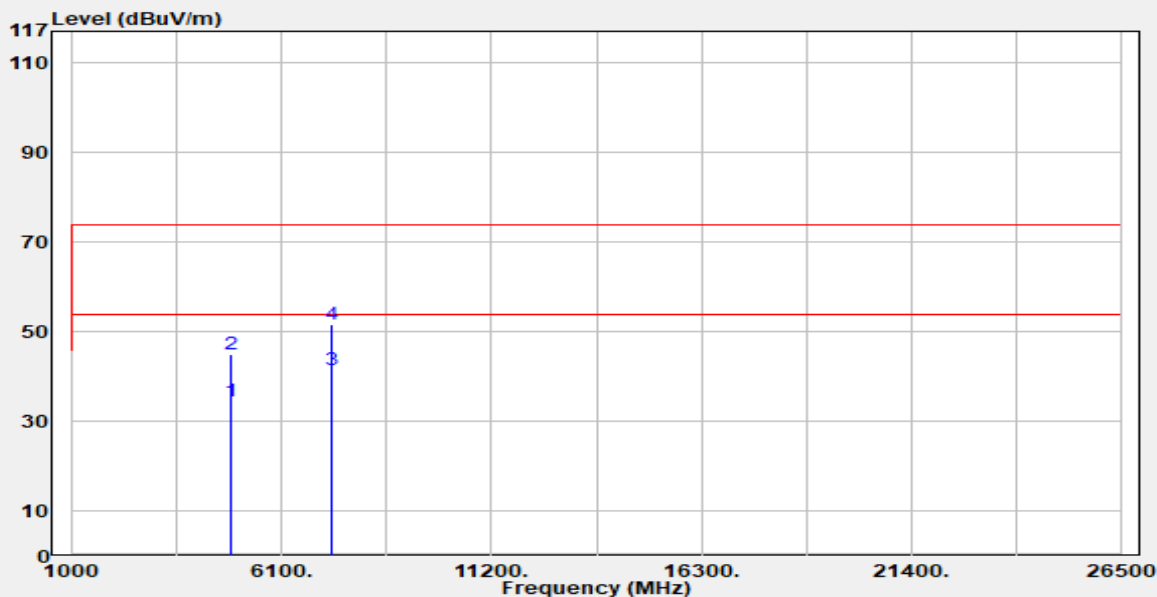
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4874.00	Average	26.69	7.94	34.63	54.00	-19.37
4874.00	Peak	36.71	7.94	44.65	74.00	-29.35
7311.00	Average	26.05	15.34	41.39	54.00	-12.61
7311.00	Peak	35.98	15.34	51.32	74.00	-22.68

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Report Number :TERF2207001185ER
 Operation Mode :802.11n20
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2022-09-01
 Temp./Humi. :25.1/66
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	Average	26.72	7.94	34.66	54.00	-19.34
4874.00	Peak	37.04	7.94	44.98	74.00	-29.02
7311.00	Average	26.24	15.34	41.58	54.00	-12.42
7311.00	Peak	36.50	15.34	51.84	74.00	-22.16

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SGS Taiwan Ltd.

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t (886-2) 2299-3279

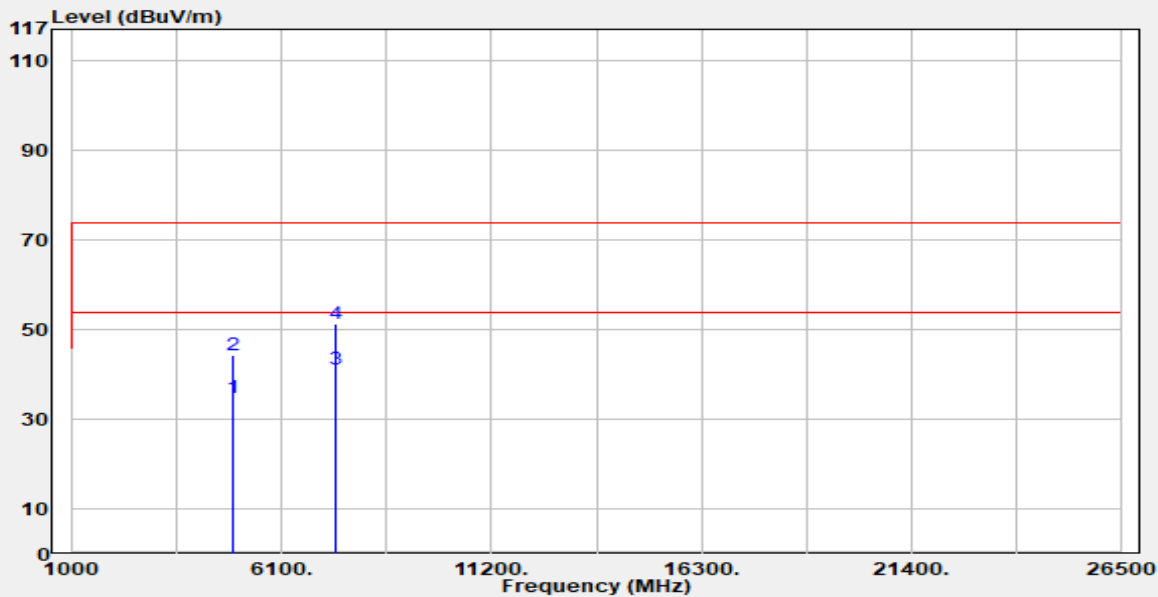
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Report Number :TERF2207001185ER
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2022-09-01
 Temp./Humi. :25.1/66
 Antenna Pol. :Vertical
 Engineer :Jack Liu



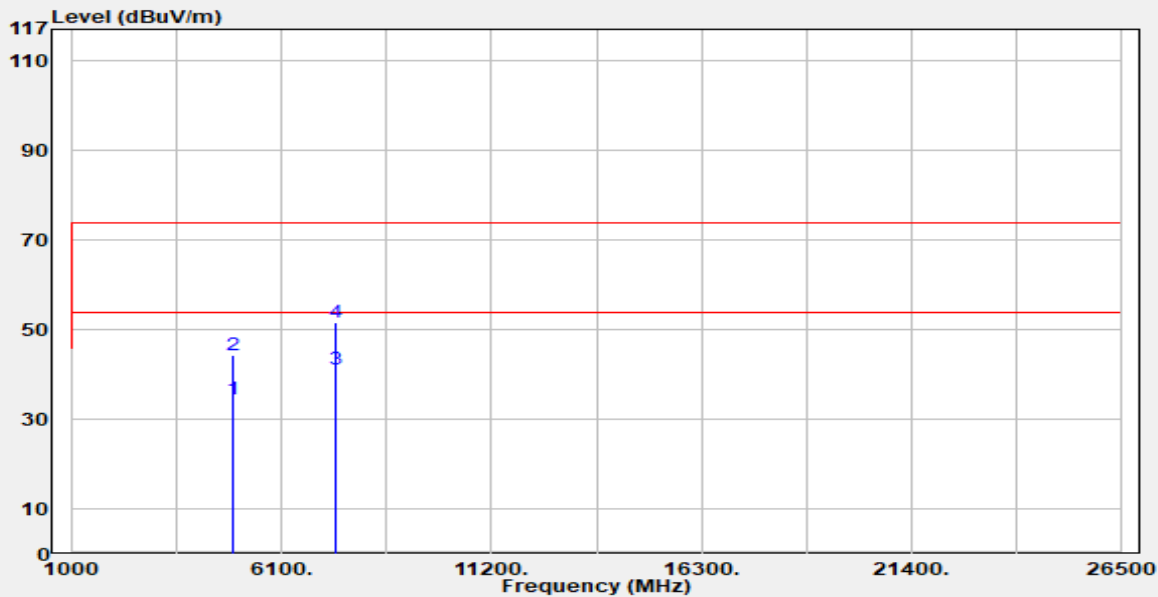
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.00	Average	26.84	7.89	34.73	54.00	-19.27
4924.00	Peak	36.36	7.89	44.25	74.00	-29.75
7386.00	Average	25.87	15.29	41.16	54.00	-12.84
7386.00	Peak	36.06	15.29	51.35	74.00	-22.65

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Report Number :TERF2207001185ER
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2022-09-01
 Temp./Humi. :25.1/66
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.00	Average	26.83	7.89	34.72	54.00	-19.28
4924.00	Peak	36.44	7.89	44.33	74.00	-29.67
7386.00	Average	25.94	15.29	41.23	54.00	-12.77
7386.00	Peak	36.33	15.29	51.62	74.00	-22.38

~ End of Report ~

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