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:	TERF2207001184ER
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 §15.407, 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
TERF2207001184ER	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:	CASTLES TECHNOLOGY
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:	CASTLES TECHNOLOGY
Model No. of Host:	S1E2-L
Power Supply:	Battery 3.75Vdc Adapter 5Vdc
Test Software (Name/Version)	QRCT3 / 3.0.264.0

1.2 Modulation & Data Rate

Modulation type	64QAM, 16QAM, QPSK, BPSK for OFDM
Transition Rate	802.11 a: 6.5 - 54 Mbps

1.3 Antenna Designation

Antenna Type	Freq. (MHz)	Peak Antenna Gain (dBi)	Worst Antenna Gain
Dipole	5180~5240	0.658	V
	5745~5825	1.612	V
Note: Antenna information is provided by the applicant.			

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1.4 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407
FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01
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 Conducted Test (RF)

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

2.3.2 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.

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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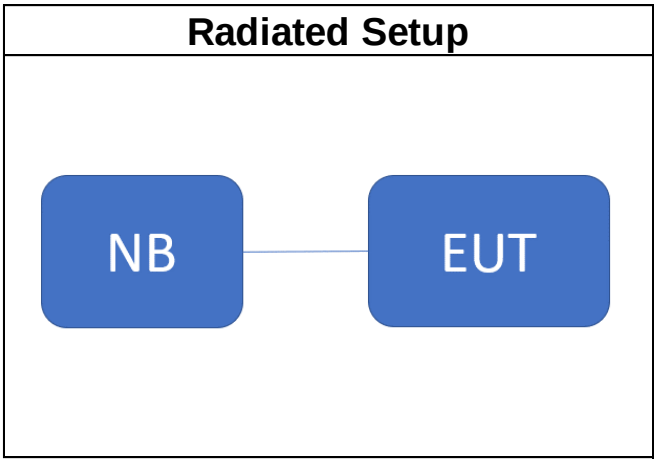
2.5 Test Configuration



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 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 Operating Frequencies

Operated band in 5150 MHz ~5250 MHz:

20 M	
CH	Freq (MHz)
36	5180
40	5200
44	5220
48	5240

Operated band in 5725 MHz ~5850 MHz:

20 M	
CH	Freq (MHz)
149	5745
153	5765
157	5785
161	5805
165	5825

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4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting 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				Single Transmission Spatial	Multiple Transmission Spatial
☒ 802.11 a	☒ Ch0	☐ Ch1	☐ Ch2	☐ Ch3	☐ 1TX	☐ 2TX

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	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	44	OFDM	6	ch0
	5745~5825	149 to 165	157			

RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	ch0
	5745~5825	149 to 165	149,157,165			

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

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 UNDESIRABLE RADIATED EMISSION MEASUREMENT

6.1 Standard Applicable

*EIRP = ((E*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 (dBμV/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:

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 5150-5350	Micro-Tronics	BRM50703	1	12/14/2021	12/13/2022
Bandreject Filter 5725-5875	Micro-Tronics	BRM50705	1	12/14/2021	12/13/2022
8.6GHz High Pass Filter	Titan	T04H86002600060S01	210619-2-7	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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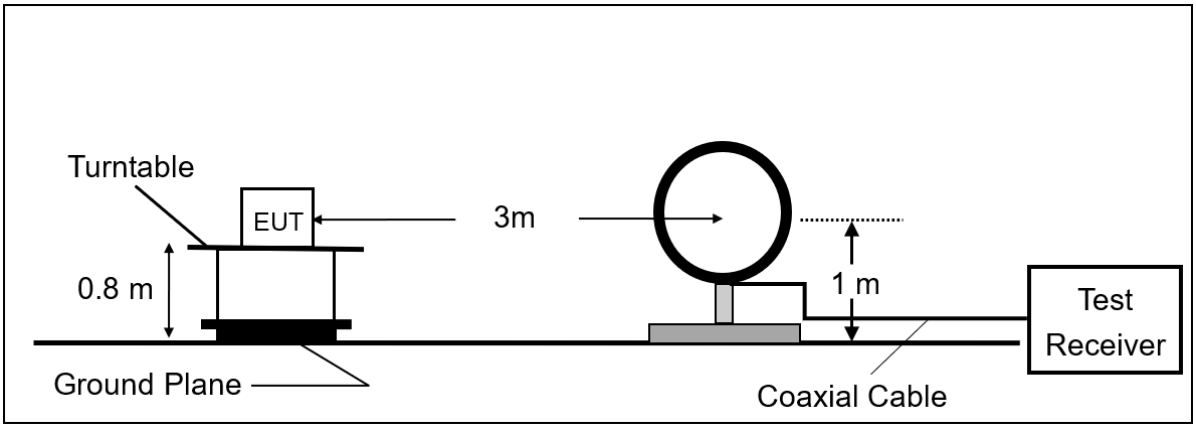
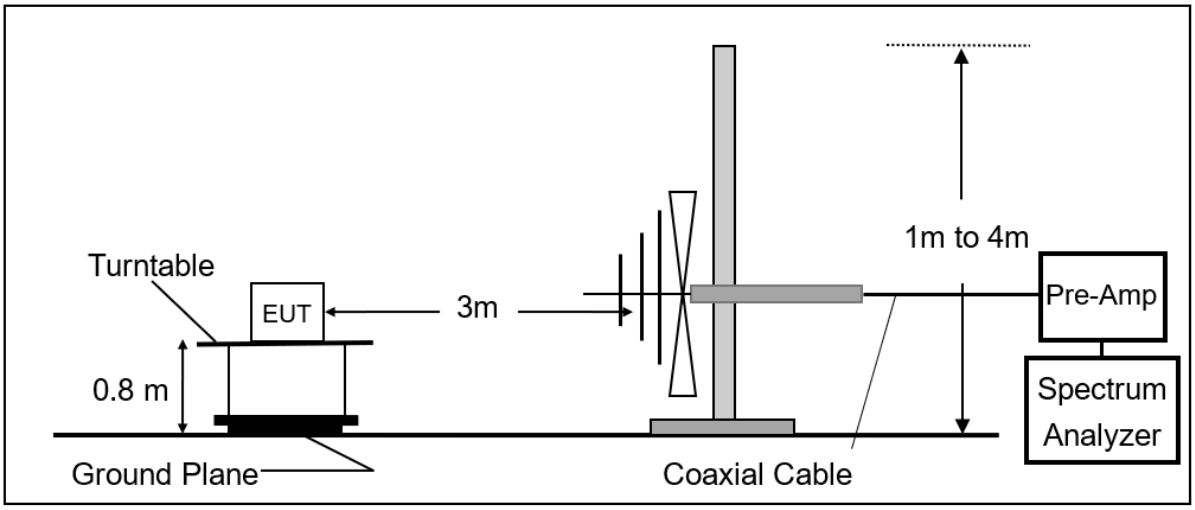
6.3 Test Setup

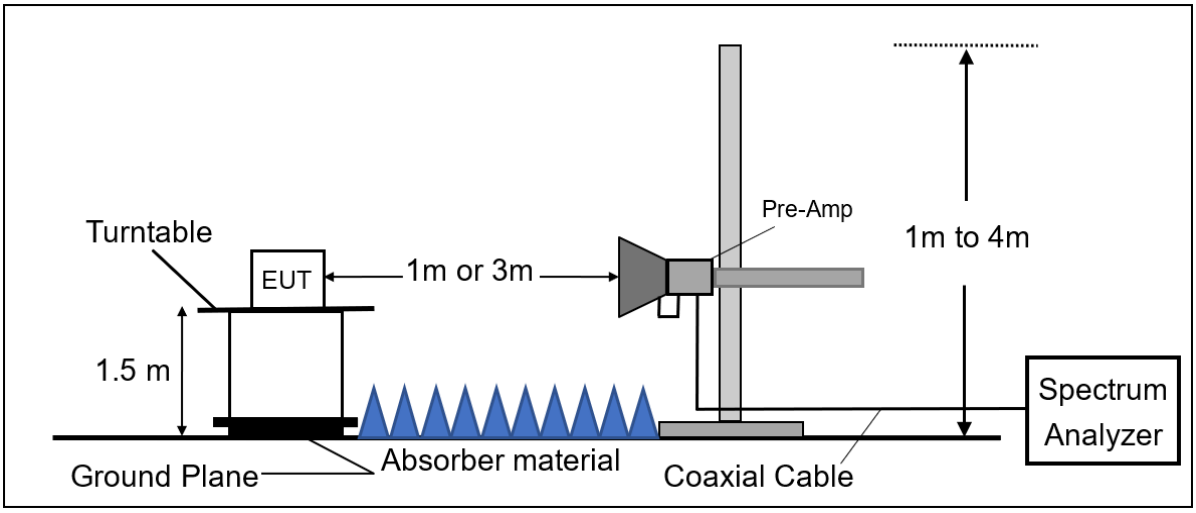
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



(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 ≥ 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*
RA = Reading Amplitude
AF = Antenna Factor
CL = Cable Attenuation Factor (Cable Loss)
AG = Amplifier Gain

*The limit of the emission level is expressed in dBuV/m, which converts 20*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.

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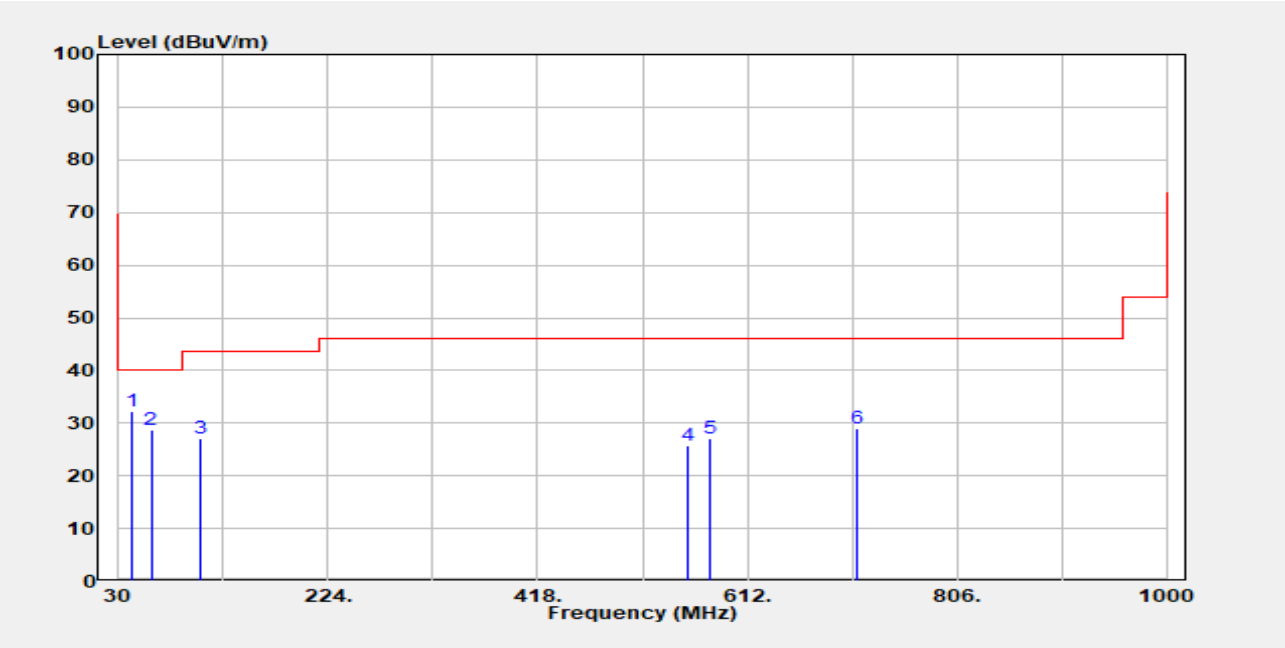
6.7 Radiated Spurious Emission Measurement Result

6.7.1 Spurious Emission

Report Number	:TERF2207001184ER	Test Site	:SAC 1
Operation Mode	:802.11a	Test Date	:2022-09-01
Test Frequency	:5220 MHz	Temp./Humi.	:24.3/72
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:E1 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
42.61	Peak	44.63	-12.33	32.31	40.00	-7.69
60.07	Peak	46.65	-18.00	28.66	40.00	-11.34
106.63	Peak	39.37	-12.36	27.02	43.50	-16.48
557.68	Peak	30.17	-4.35	25.81	46.00	-20.19
578.05	Peak	31.65	-4.53	27.12	46.00	-18.88
712.88	Peak	32.37	-3.35	29.02	46.00	-16.98

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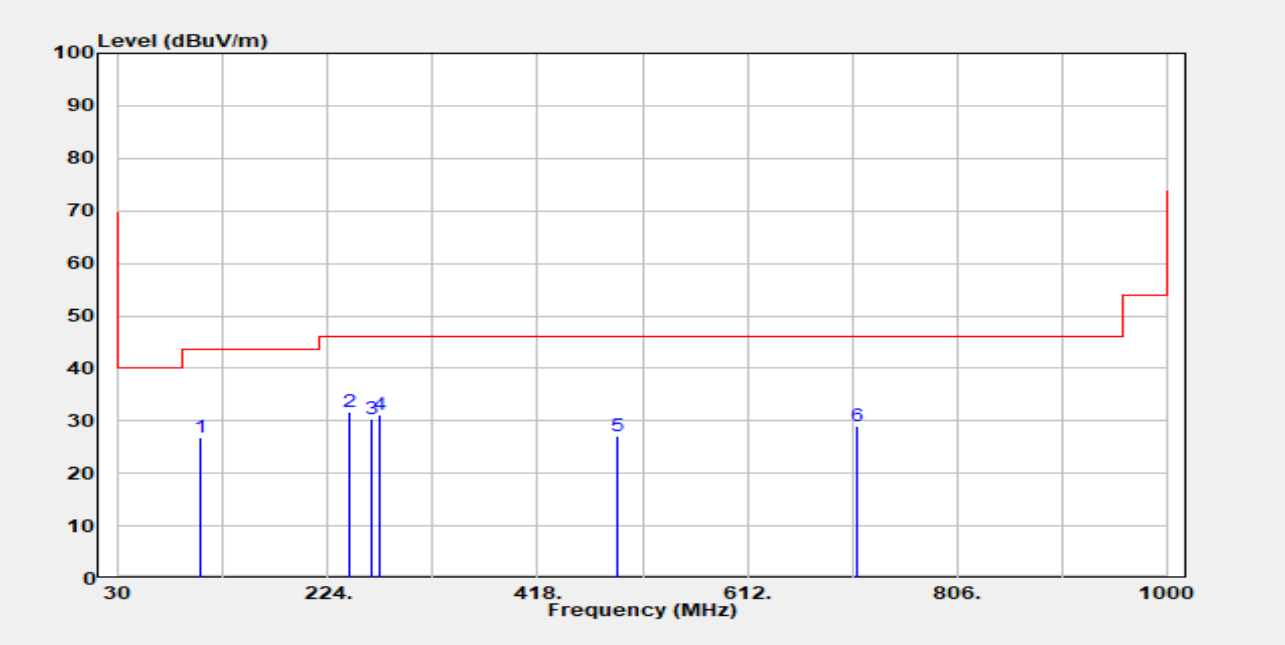
Report Number	:TERF2207001184ER	Test Site	:SAC 1
Operation Mode	:802.11a	Test Date	:2022-09-01
Test Frequency	:5220 MHz	Temp./Humi.	:24.3/72
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:E1 Plane	Engineer	:GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
106.63	Peak	39.30	-12.36	26.95	43.50	-16.55
244.37	Peak	42.53	-10.92	31.60	46.00	-14.40
263.77	Peak	39.61	-9.13	30.48	46.00	-15.52
272.50	Peak	40.90	-9.75	31.14	46.00	-14.86
491.72	Peak	32.45	-5.35	27.10	46.00	-18.90
713.85	Peak	32.49	-3.38	29.11	46.00	-16.89

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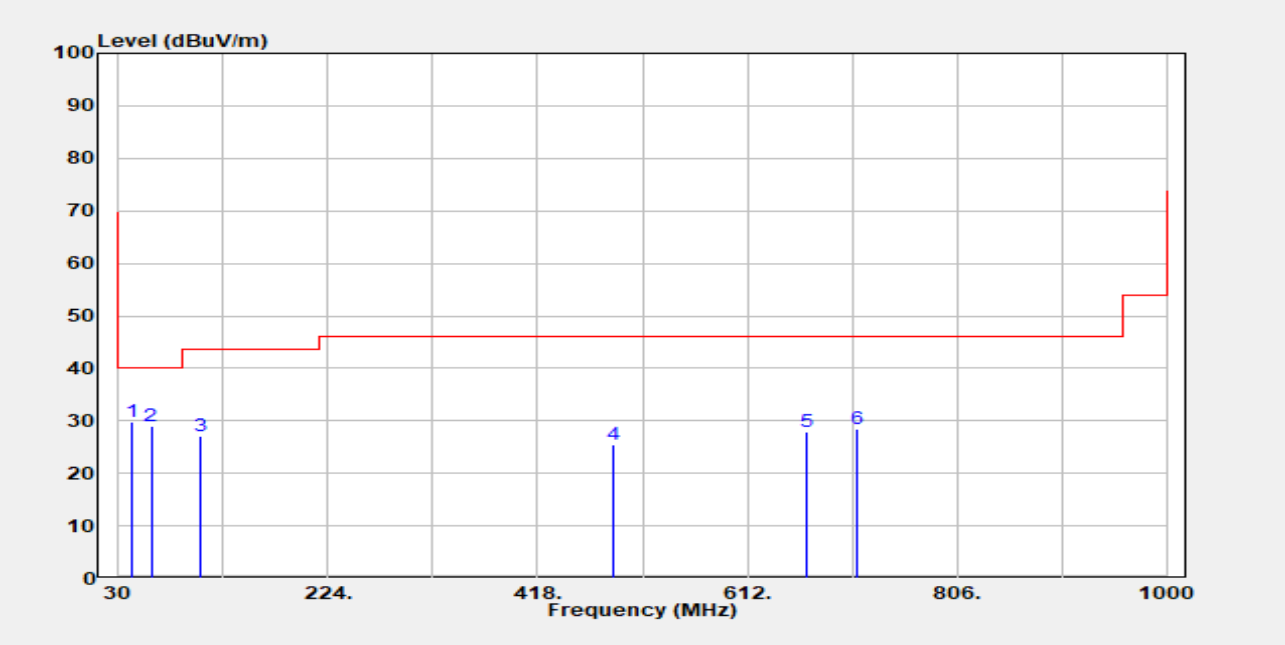
Report Number	:TERF2207001184ER	Test Site	:SAC 1
Operation Mode	:802.11a	Test Date	:2022-09-01
Test Frequency	:5785 MHz	Temp./Humi.	:24.3/72
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:E1 Plane	Engineer	:GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
41.64	Peak	41.82	-11.89	29.93	40.00	-10.07
60.07	Peak	46.91	-18.00	28.91	40.00	-11.09
105.66	Peak	39.54	-12.50	27.04	43.50	-16.46
487.84	Peak	30.97	-5.40	25.57	46.00	-20.43
666.32	Peak	31.32	-3.36	27.96	46.00	-18.04
712.88	Peak	31.93	-3.35	28.58	46.00	-17.42

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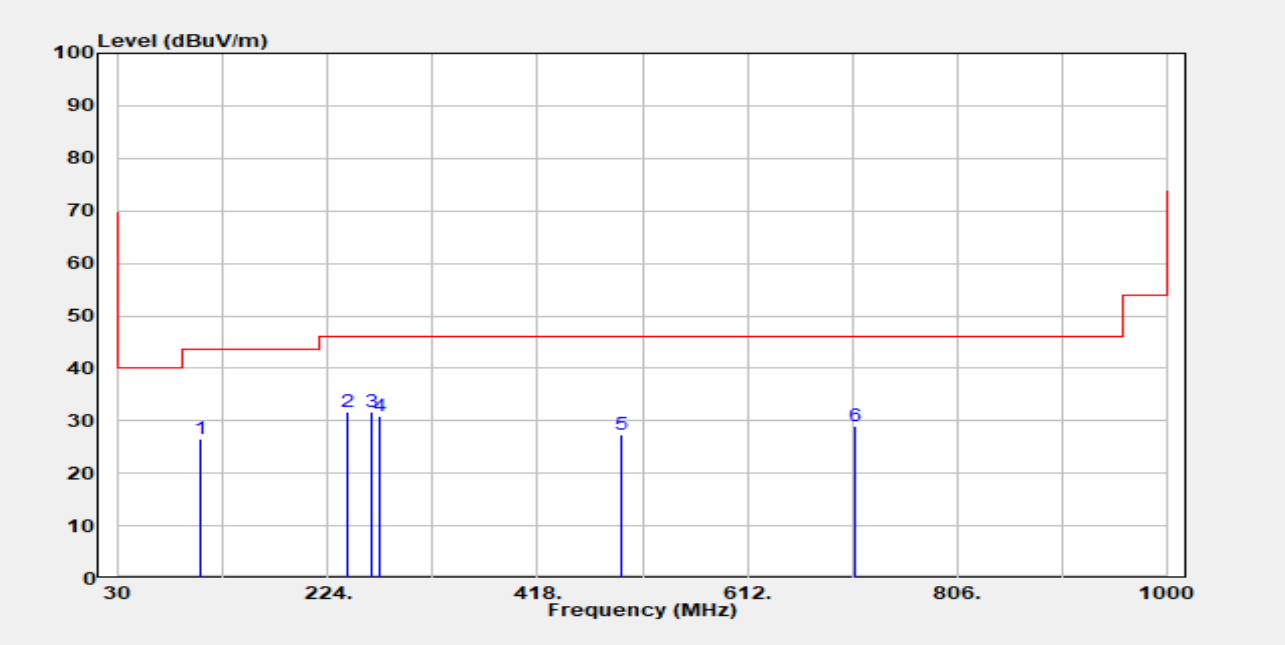
Report Number	:TERF2207001184ER	Test Site	:SAC 1
Operation Mode	:802.11a	Test Date	:2022-09-01
Test Frequency	:5785 MHz	Temp./Humi.	:24.3/72
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:E1 Plane	Engineer	:GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
106.63	Peak	38.87	-12.36	26.51	43.50	-16.99
242.43	Peak	42.69	-11.11	31.58	46.00	-14.42
263.77	Peak	40.75	-9.13	31.62	46.00	-14.38
271.53	Peak	40.64	-9.74	30.89	46.00	-15.11
495.60	Peak	32.66	-5.16	27.50	46.00	-18.50
711.91	Peak	32.37	-3.32	29.05	46.00	-16.95

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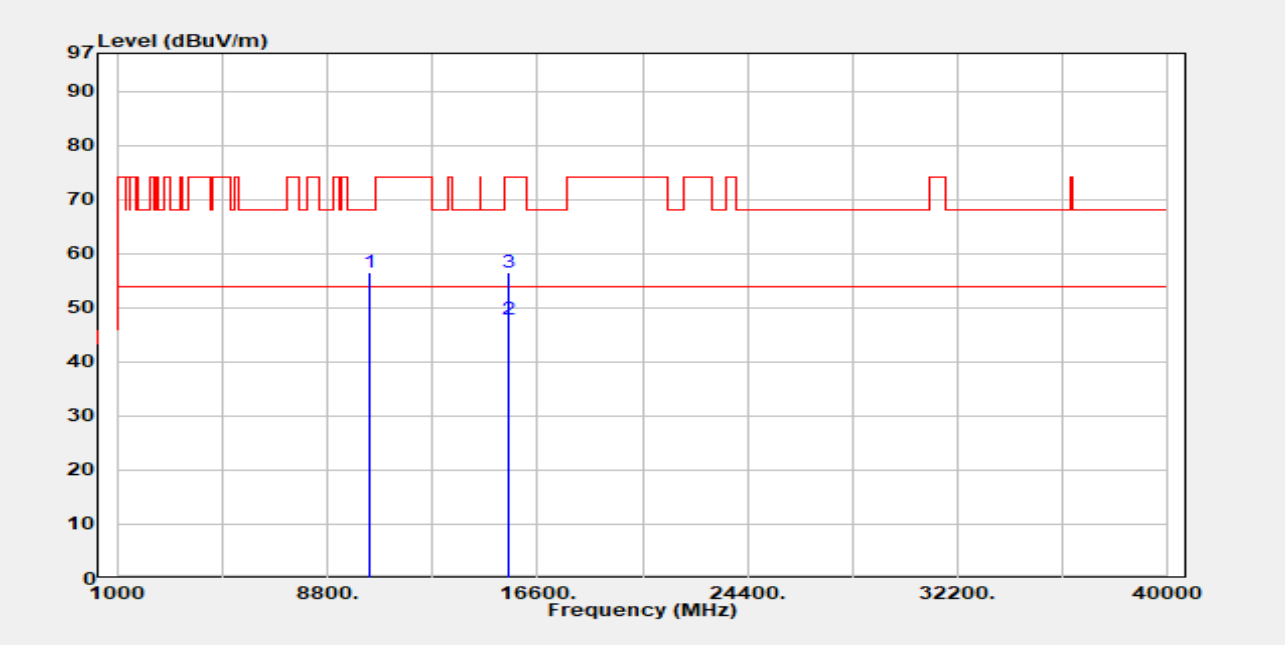
Report Number	:TERF2207001184ER	Test Site	:SAC 1
Operation Mode	:802.11a	Test Date	:2022-09-02
Test Frequency	:5180 MHz	Temp./Humi.	:24.3/72
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:E1 Plane	Engineer	:GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10360.00	Peak	35.03	21.52	56.54	68.20	-11.66
15540.00	Average	25.79	22.00	47.79	54.00	-6.21
15540.00	Peak	34.47	22.00	56.47	74.00	-17.53

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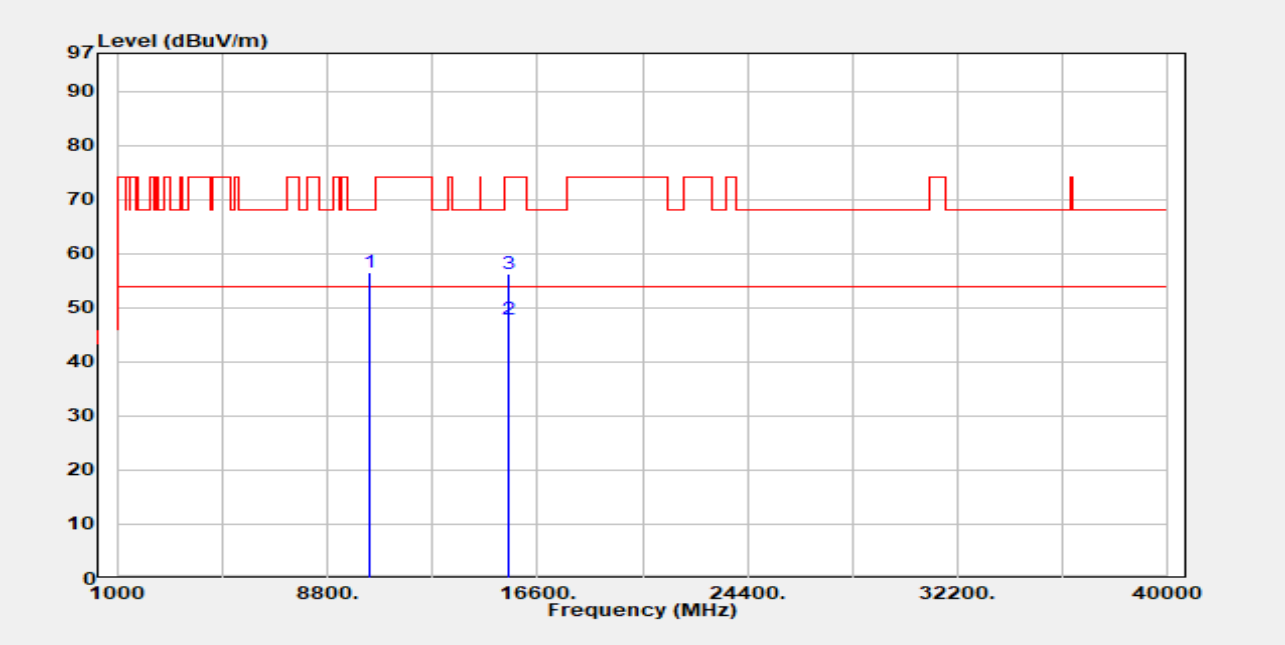
Report Number	:TERF2207001184ER	Test Site	:SAC 1
Operation Mode	:802.11a	Test Date	:2022-09-02
Test Frequency	:5180 MHz	Temp./Humi.	:24.3/72
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:E1 Plane	Engineer	:GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10360.00	Peak	34.95	21.52	56.47	68.20	-11.73
15540.00	Average	25.83	22.00	47.83	54.00	-6.17
15540.00	Peak	34.32	22.00	56.32	74.00	-17.68

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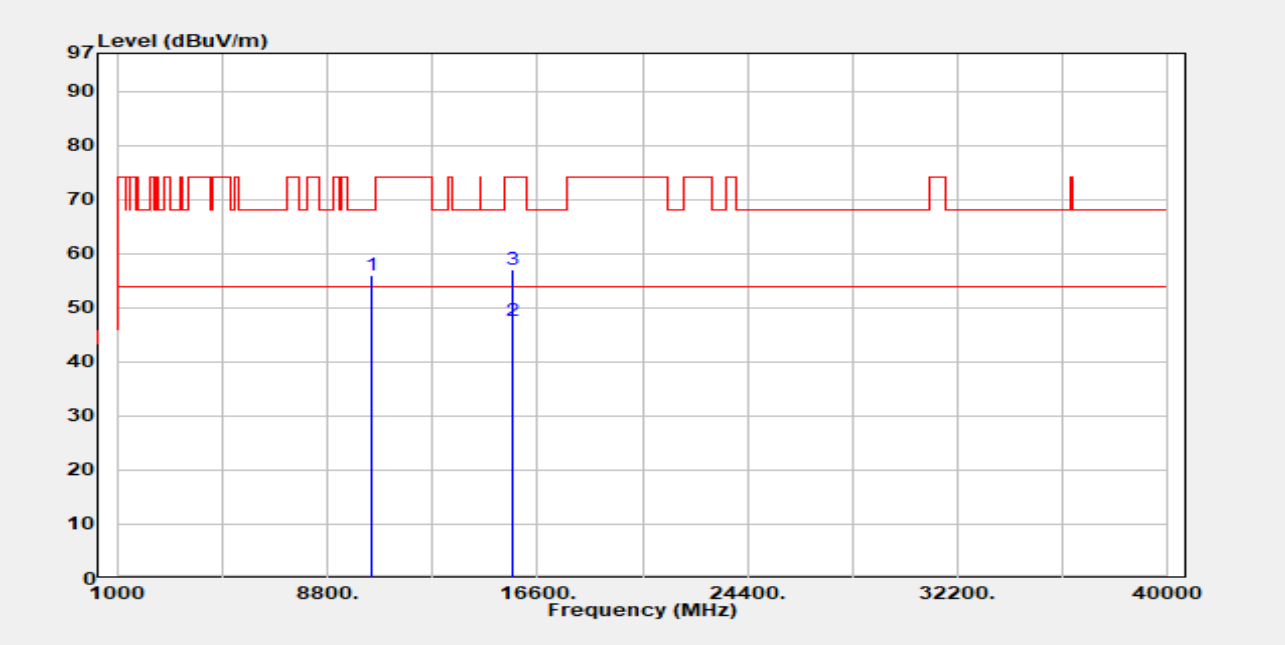
Report Number	:TERF2207001184ER	Test Site	:SAC 1
Operation Mode	:802.11a	Test Date	:2022-09-02
Test Frequency	:5220 MHz	Temp./Humi.	:24.3/72
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:E1 Plane	Engineer	:GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10440.00	Peak	35.24	20.79	56.03	68.20	-12.17
15660.00	Average	26.03	21.66	47.69	54.00	-6.31
15660.00	Peak	35.33	21.66	57.00	74.00	-17.00

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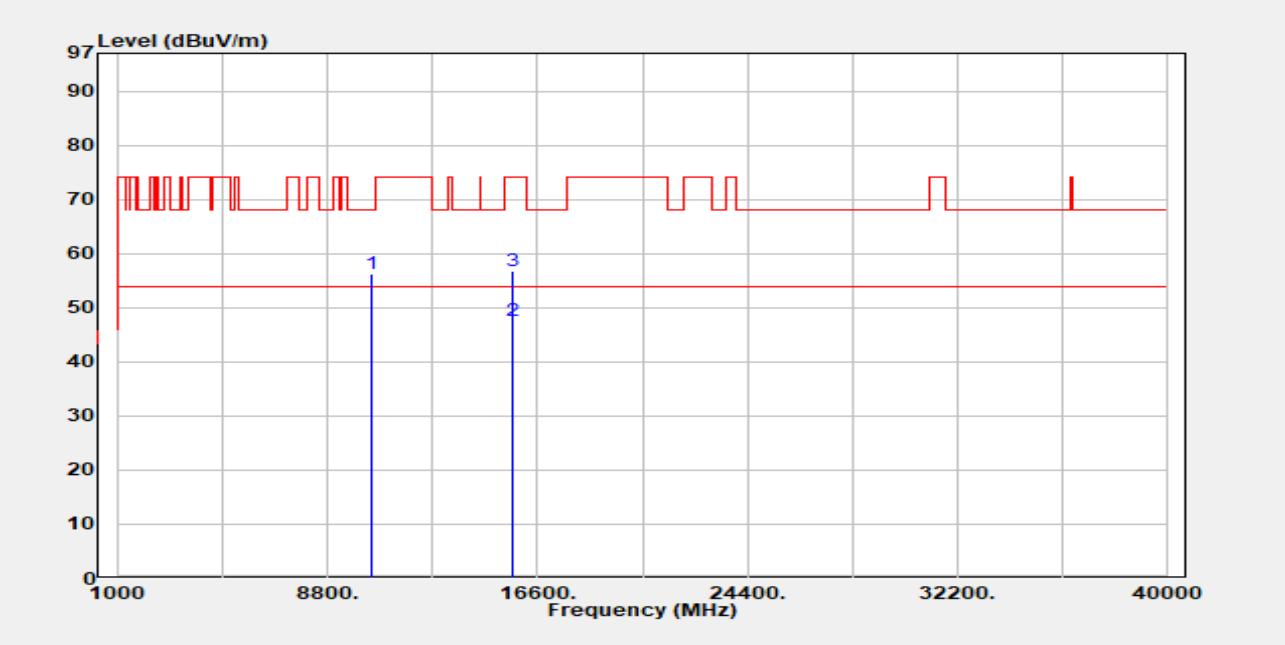
Operation Mode	:802.11a	Test Date	:2022-09-02
Test Frequency	:5220 MHz	Temp./Humi.	:24.3/72
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:E1 Plane	Engineer	:GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10440.00	Peak	35.48	20.79	56.27	68.20	-11.93
15660.00	Average	25.90	21.66	47.56	54.00	-6.44
15660.00	Peak	35.11	21.66	56.77	74.00	-17.23

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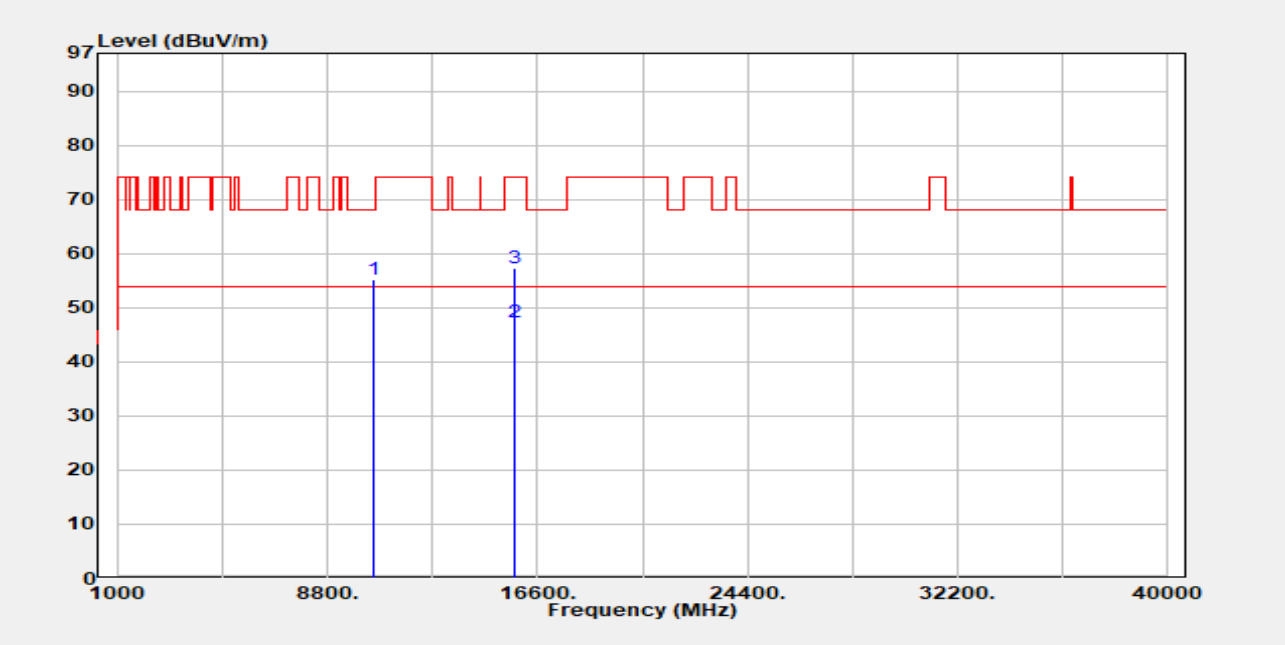
Report Number	:TERF2207001184ER	Test Site	:SAC 1
Operation Mode	:802.11a	Test Date	:2022-09-02
Test Frequency	:5240 MHz	Temp./Humi.	:24.3/72
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:E1 Plane	Engineer	:GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10480.00	Peak	35.07	20.19	55.26	68.20	-12.94
15720.00	Average	25.92	21.48	47.40	54.00	-6.60
15720.00	Peak	35.73	21.48	57.20	74.00	-16.80

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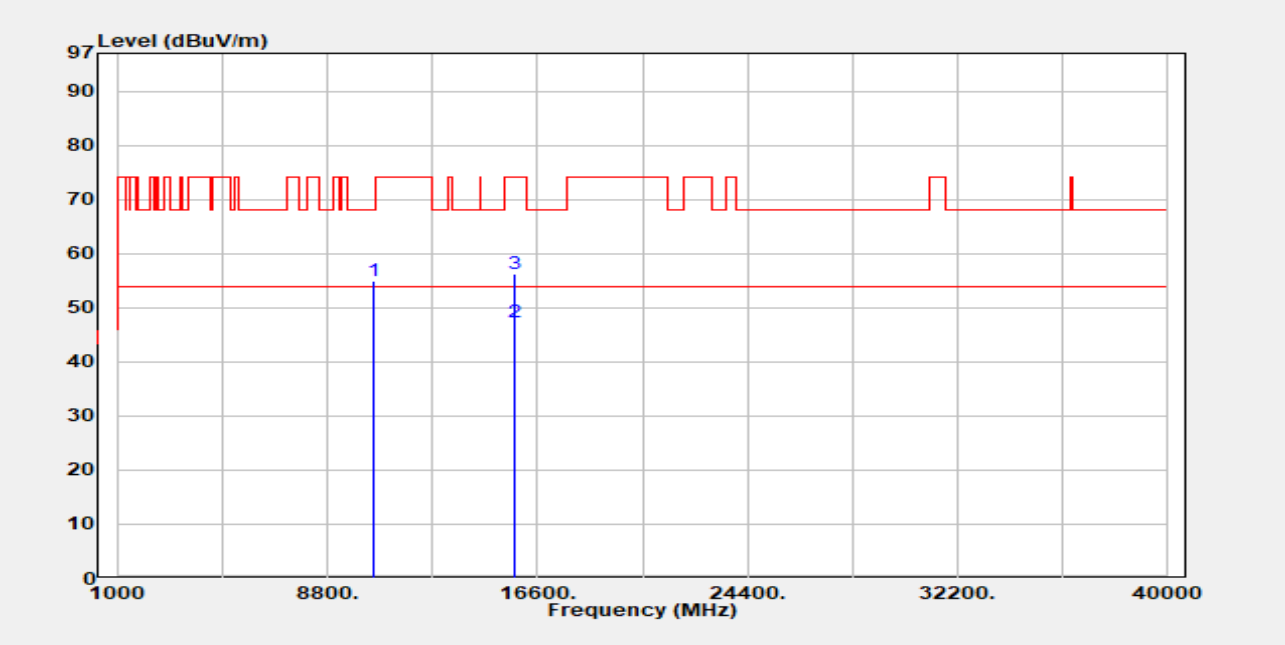
Report Number	:TERF2207001184ER	Test Site	:SAC 1
Operation Mode	:802.11a	Test Date	:2022-09-02
Test Frequency	:5240 MHz	Temp./Humi.	:24.3/72
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:E1 Plane	Engineer	:GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10480.00	Peak	34.78	20.19	54.96	68.20	-13.24
15720.00	Average	25.83	21.48	47.31	54.00	-6.69
15720.00	Peak	34.72	21.48	56.20	74.00	-17.80

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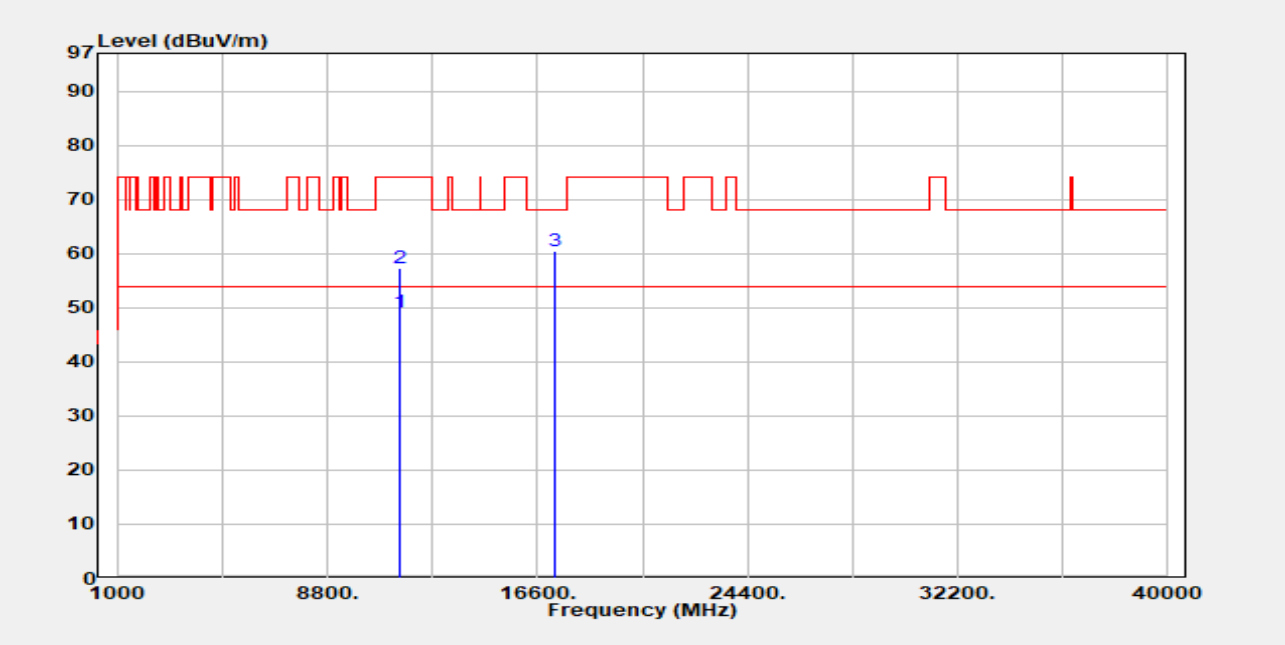
Report Number	:TERF2207001184ER	Test Site	:SAC 1
Operation Mode	:802.11a	Test Date	:2022-09-02
Test Frequency	:5745 MHz	Temp./Humi.	:24.3/72
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:E1 Plane	Engineer	:GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11490.00	Average	26.31	22.86	49.17	54.00	-4.83
11490.00	Peak	34.32	22.86	57.18	74.00	-16.82
17235.00	Peak	33.93	26.44	60.38	68.20	-7.82

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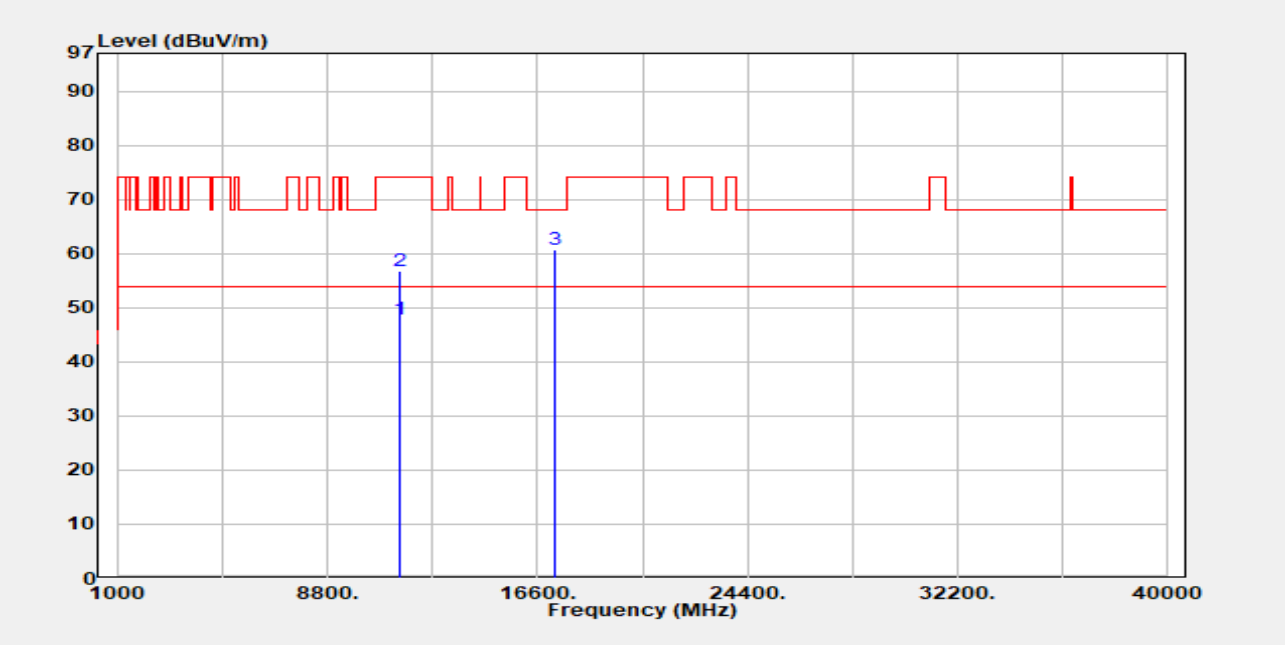
Report Number	:TERF2207001184ER	Test Site	:SAC 1
Operation Mode	:802.11a	Test Date	:2022-09-02
Test Frequency	:5745 MHz	Temp./Humi.	:24.3/72
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:E1 Plane	Engineer	:GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11490.00	Average	24.90	22.86	47.76	54.00	-6.24
11490.00	Peak	33.80	22.86	56.66	74.00	-17.34
17235.00	Peak	34.31	26.44	60.76	68.20	-7.44

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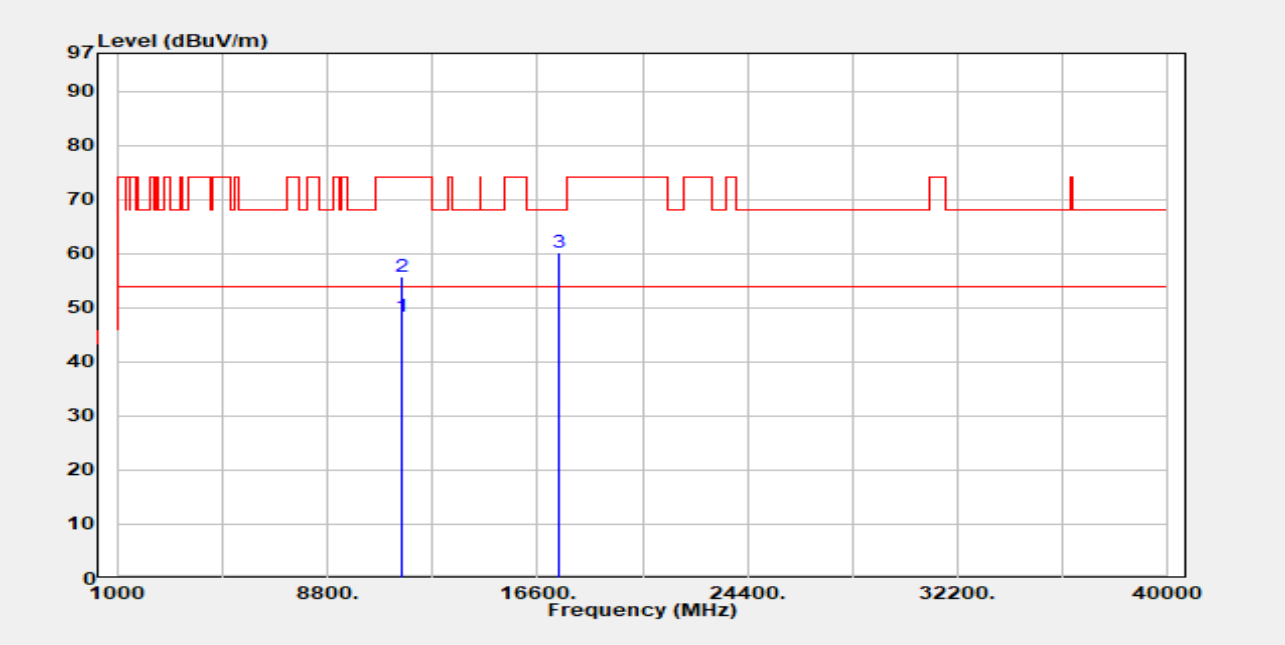
Report Number	:TERF2207001184ER	Test Site	:SAC 1
Operation Mode	:802.11a	Test Date	:2022-09-02
Test Frequency	:5785 MHz	Temp./Humi.	:24.3/72
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:E1 Plane	Engineer	:GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11570.00	Average	26.65	21.70	48.35	54.00	-5.65
11570.00	Peak	34.08	21.70	55.77	74.00	-18.23
17355.00	Peak	33.61	26.64	60.25	68.20	-7.95

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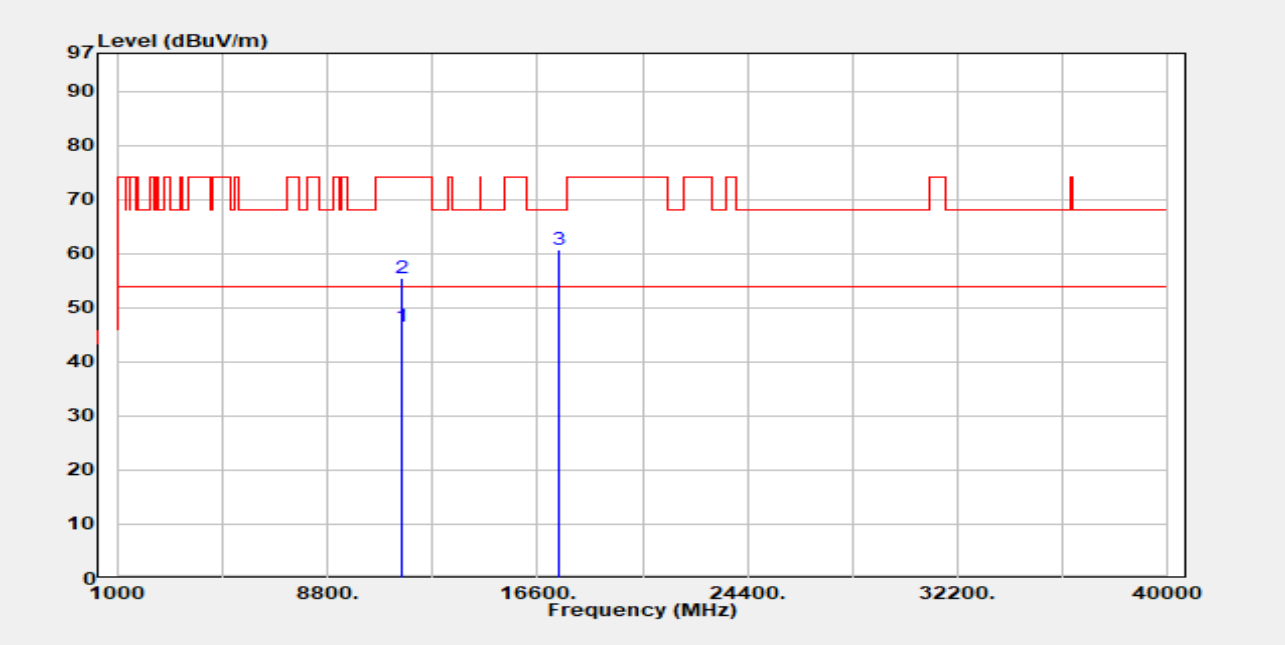
Report Number	:TERF2207001184ER	Test Site	:SAC 1
Operation Mode	:802.11a	Test Date	:2022-09-02
Test Frequency	:5785 MHz	Temp./Humi.	:24.3/72
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:E1 Plane	Engineer	:GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11570.00	Average	24.96	21.70	46.66	54.00	-7.34
11570.00	Peak	33.72	21.70	55.41	74.00	-18.59
17355.00	Peak	34.06	26.64	60.70	68.20	-7.50

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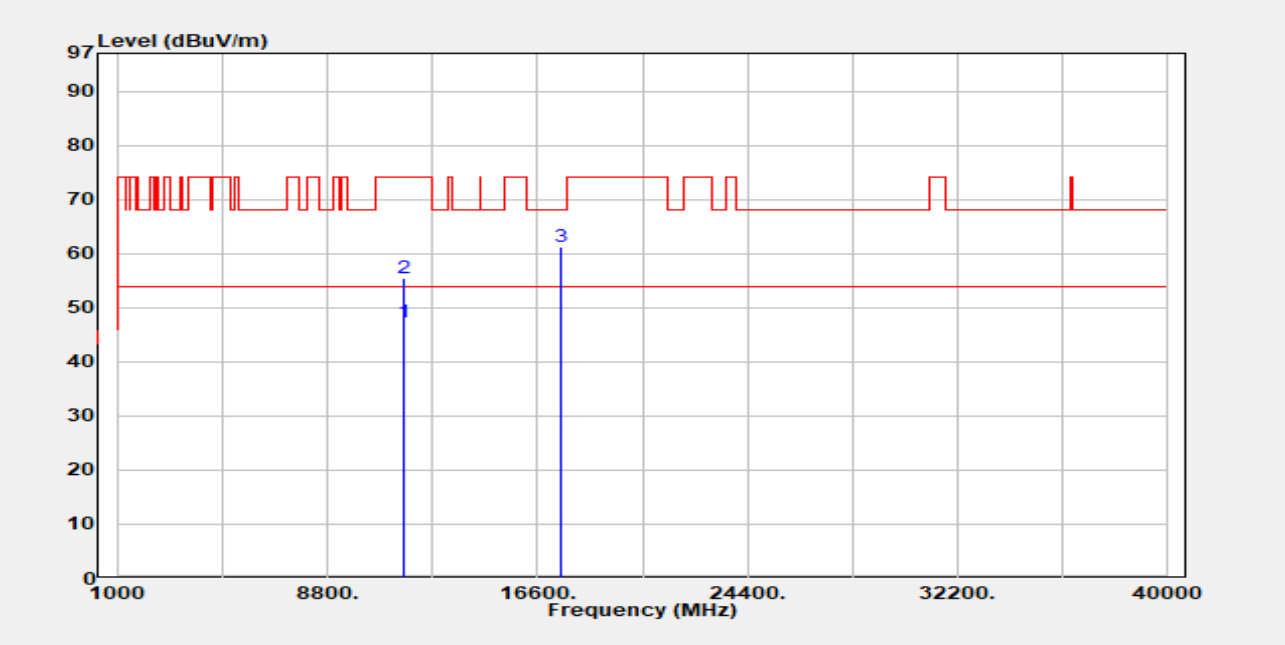
Report Number	:TERF2207001184ER	Test Site	:SAC 1
Operation Mode	:802.11a	Test Date	:2022-09-02
Test Frequency	:5825 MHz	Temp./Humi.	:24.3/72
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:E1 Plane	Engineer	:GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11650.00	Average	25.48	21.78	47.26	54.00	-6.74
11650.00	Peak	33.70	21.78	55.48	74.00	-18.52
17475.00	Peak	33.90	27.33	61.23	68.20	-6.97

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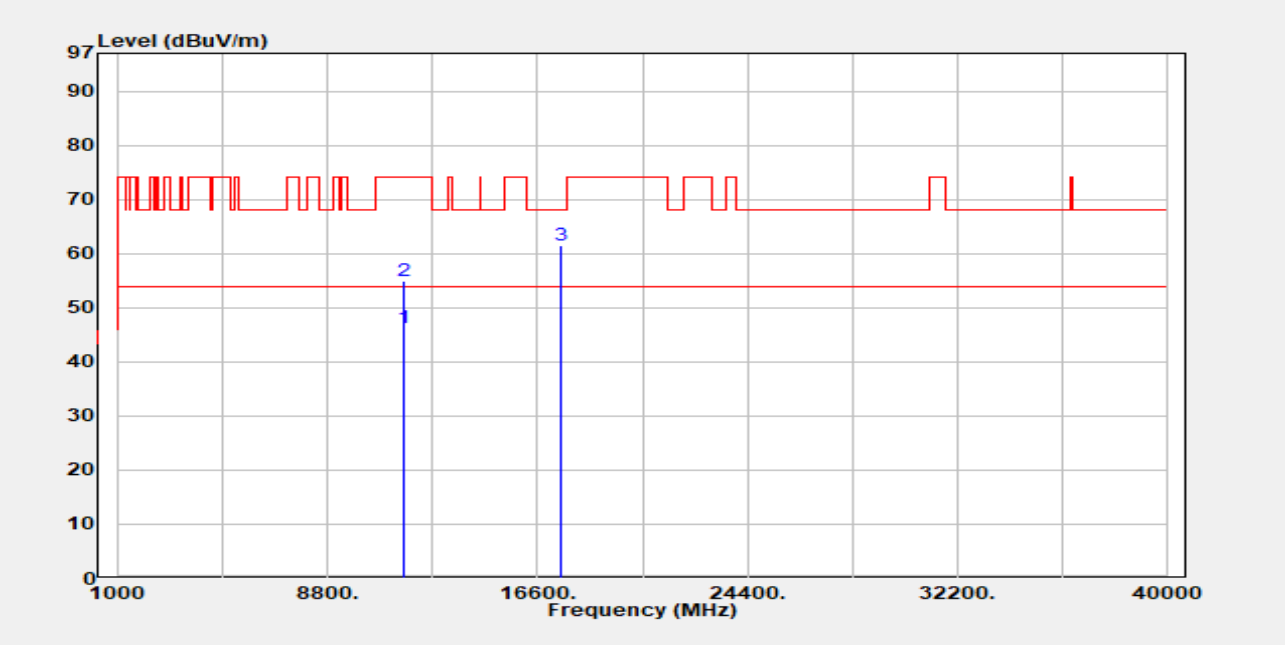
Report Number	:TERF2207001184ER	Test Site	:SAC 1
Operation Mode	:802.11a	Test Date	:2022-09-02
Test Frequency	:5825 MHz	Temp./Humi.	:24.3/72
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:E1 Plane	Engineer	:GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11650.00	Average	24.56	21.78	46.34	54.00	-7.66
11650.00	Peak	33.26	21.78	55.04	74.00	-18.96
17475.00	Peak	34.31	27.33	61.64	68.20	-6.56

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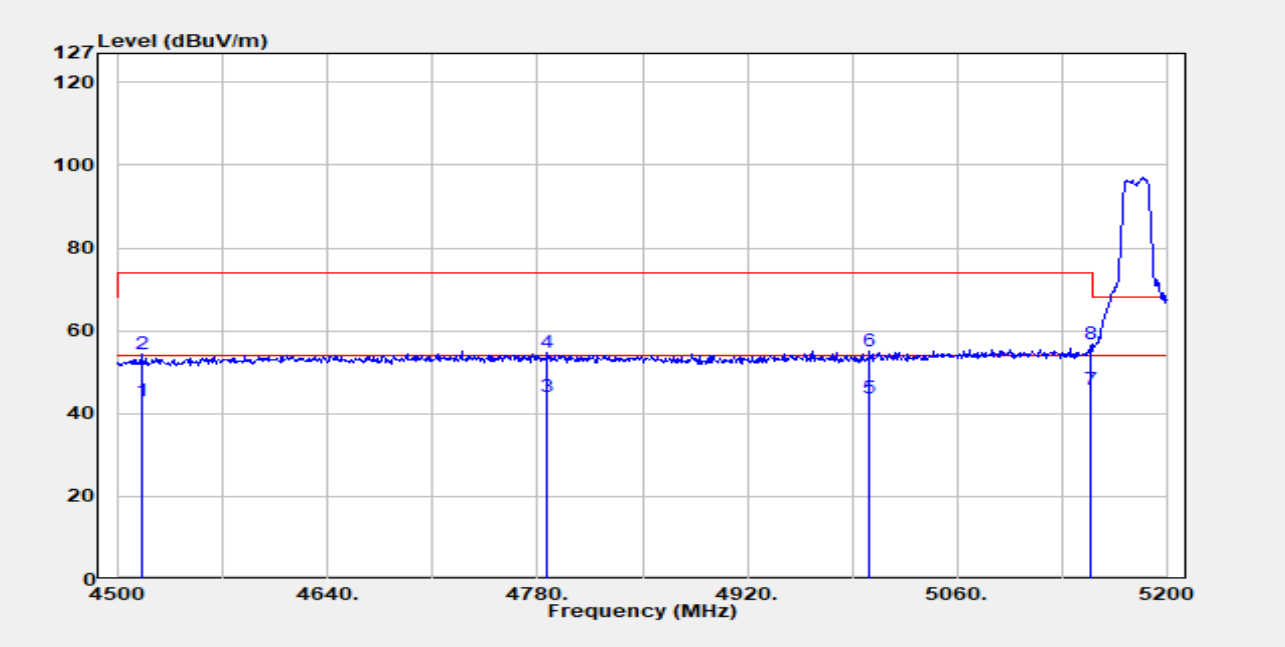
6.7.2 Band edge falling to restricted band

Report Number	:TERF2207001184ER	Test Site	:SAC 1
Operation Mode	:802.11a	Test Date	:2022-08-31
Test Frequency	:5180 MHz	Temp./Humi.	:24.5/65
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:E1 Plane	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
4515.40	Average	36.69	6.40	43.09	54.00	-10.91
4515.40	Peak	47.85	6.40	54.25	74.00	-19.75
4786.30	Average	36.51	7.38	43.89	54.00	-10.11
4786.30	Peak	47.18	7.38	54.56	74.00	-19.44
5001.90	Average	36.02	7.79	43.81	54.00	-10.19
5001.90	Peak	47.30	7.79	55.09	74.00	-18.91
5150.00	Average	37.17	8.50	45.67	54.00	-8.33
5150.00	Peak	48.24	8.50	56.74	74.00	-17.26

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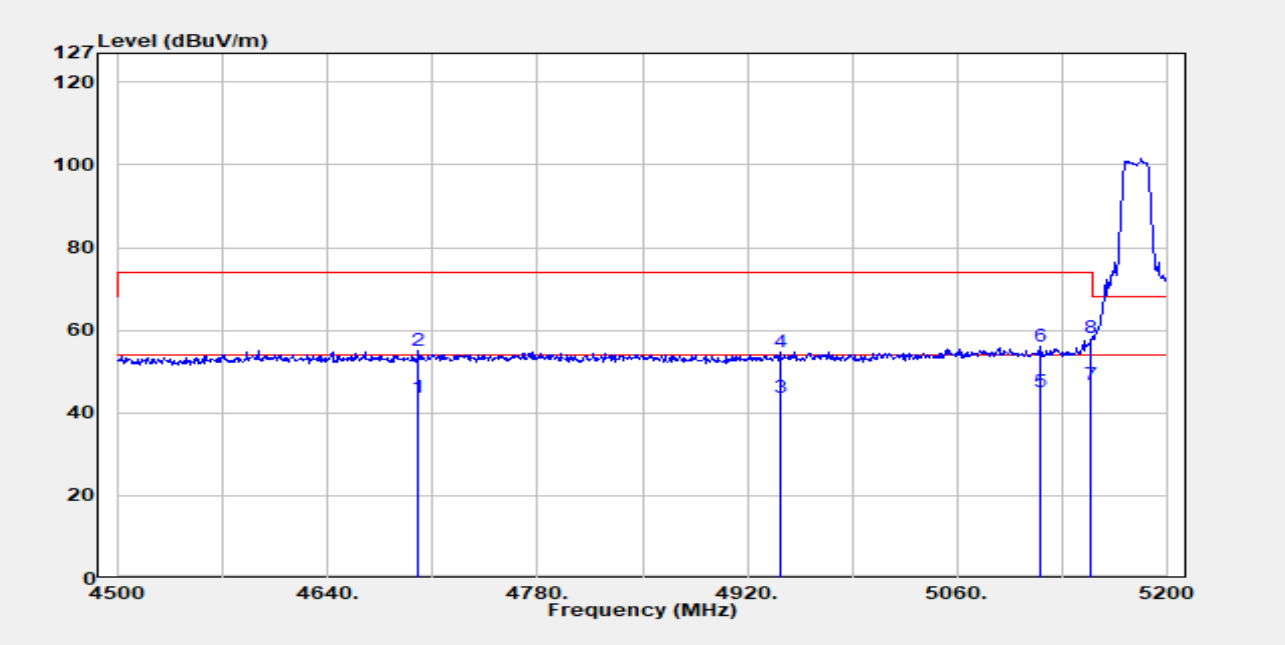
Report Number	:TERF2207001184ER	Test Site	:SAC 1
Operation Mode	:802.11a	Test Date	:2022-08-31
Test Frequency	:5180 MHz	Temp./Humi.	:24.5/65
Test Mode	:Bandedge	Antenna Pol.	:Horizontal
EUT Pol	:E1 Plane	Engineer	:Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4700.20	Average	36.38	7.35	43.73	54.00	-10.27
4700.20	Peak	47.57	7.35	54.92	74.00	-19.08
4941.70	Average	36.07	7.73	43.80	54.00	-10.20
4941.70	Peak	46.82	7.73	54.55	74.00	-19.45
5115.30	Average	36.34	8.72	45.06	54.00	-8.94
5115.30	Peak	47.32	8.72	56.04	74.00	-17.96
5150.00	Average	38.17	8.50	46.67	54.00	-7.33
5150.00	Peak	49.63	8.50	58.13	74.00	-15.87

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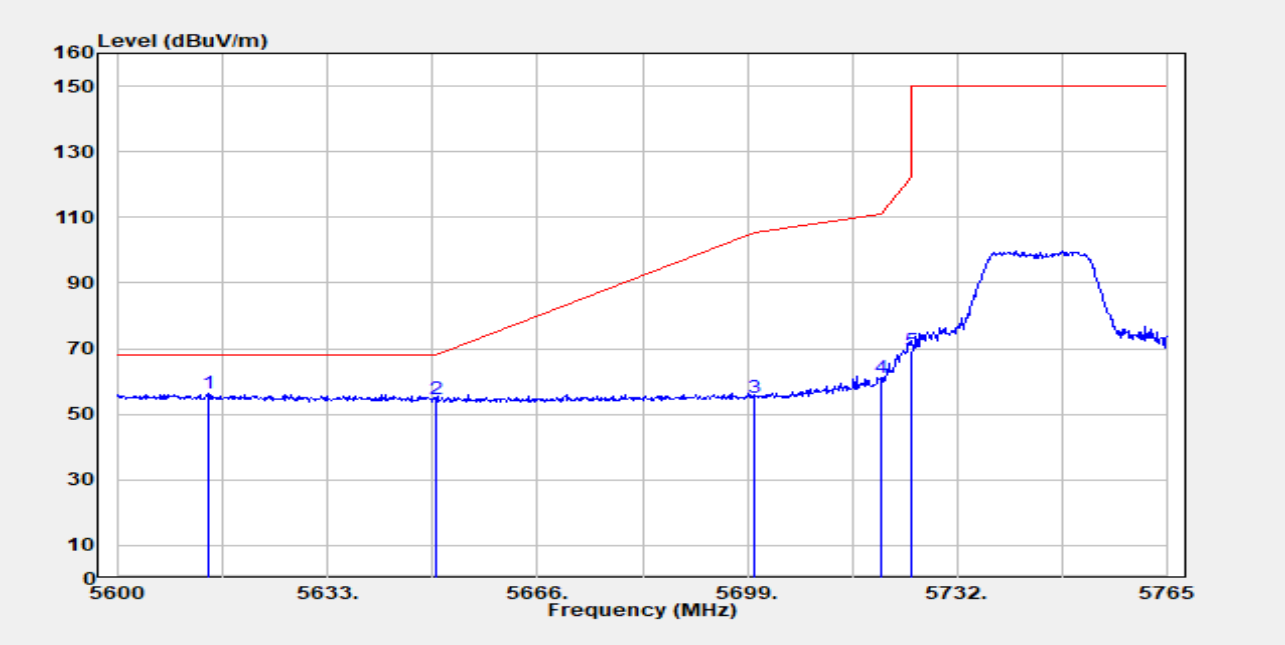
Report Number	:TERF2207001184ER	Test Site	:SAC 1
Operation Mode	:802.11a	Test Date	:2022-08-31
Test Frequency	:5745 MHz	Temp./Humi.	:24.5/65
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:E1 Plane	Engineer	:Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5614.03	Peak	47.22	8.96	56.19	68.20	-12.01
5650.00	Peak	46.15	8.48	54.63	68.20	-13.57
5700.00	Peak	45.54	9.42	54.97	105.20	-50.23
5720.00	Peak	51.80	9.51	61.30	110.80	-49.50
5725.00	Peak	59.92	9.53	69.44	122.20	-52.76

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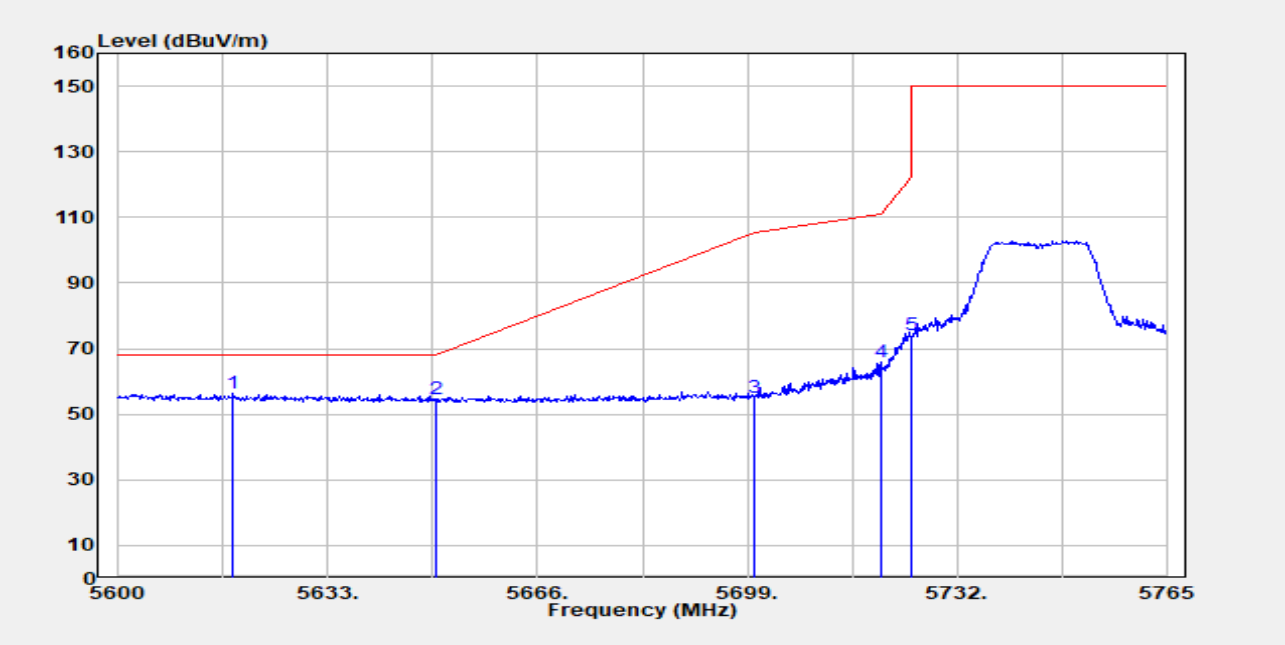
Report Number	:TERF2207001184ER	Test Site	:SAC 1
Operation Mode	:802.11a	Test Date	:2022-08-31
Test Frequency	:5745 MHz	Temp./Humi.	:24.5/65
Test Mode	:Bandedge	Antenna Pol.	:Horizontal
EUT Pol	:E1 Plane	Engineer	:Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5617.99	Peak	47.54	8.91	56.45	68.20	-11.75
5650.00	Peak	46.21	8.48	54.68	68.20	-13.52
5700.00	Peak	45.74	9.42	55.16	105.20	-50.04
5720.00	Peak	56.53	9.51	66.04	110.80	-44.76
5725.00	Peak	64.71	9.53	74.24	122.20	-47.96

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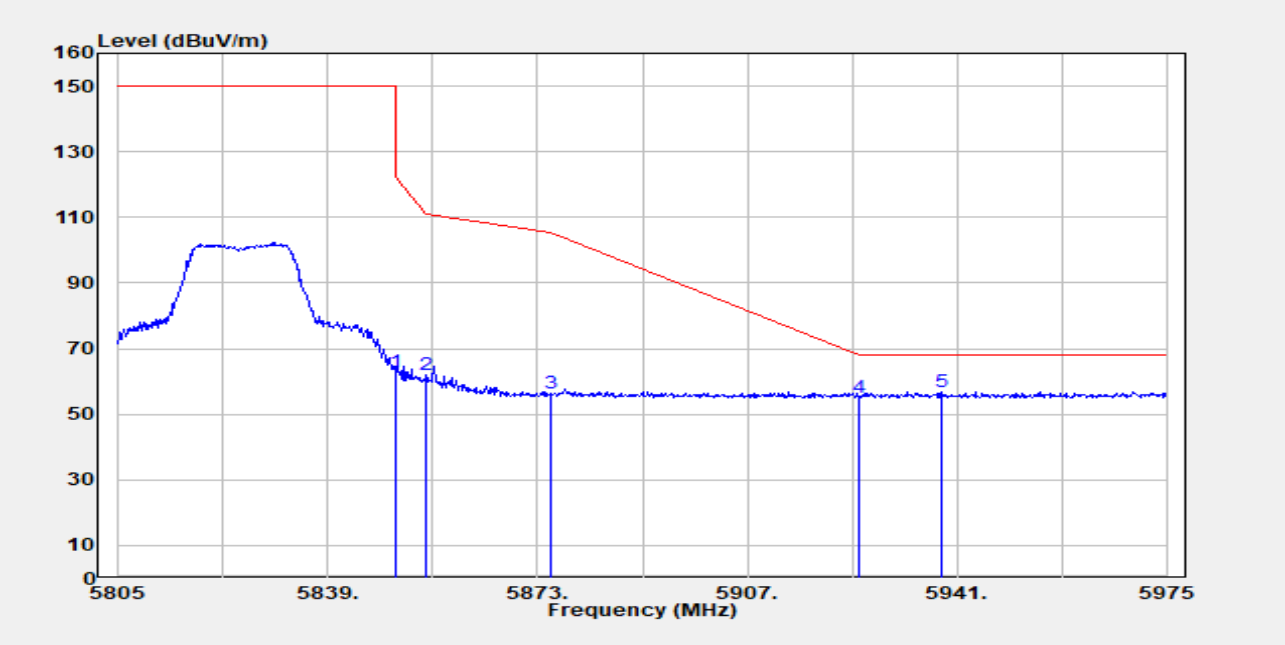
Report Number	:TERF2207001184ER	Test Site	:SAC 1
Operation Mode	:802.11a	Test Date	:2022-08-31
Test Frequency	:5825 MHz	Temp./Humi.	:24.5/65
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:E1 Plane	Engineer	:Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5850.00	Peak	53.13	9.58	62.71	122.20	-59.49
5855.00	Peak	52.44	9.60	62.03	110.80	-48.77
5875.00	Peak	46.63	9.66	56.29	105.20	-48.91
5925.00	Peak	45.47	9.64	55.11	68.20	-13.09
5938.45	Peak	47.38	9.59	56.97	68.20	-11.23

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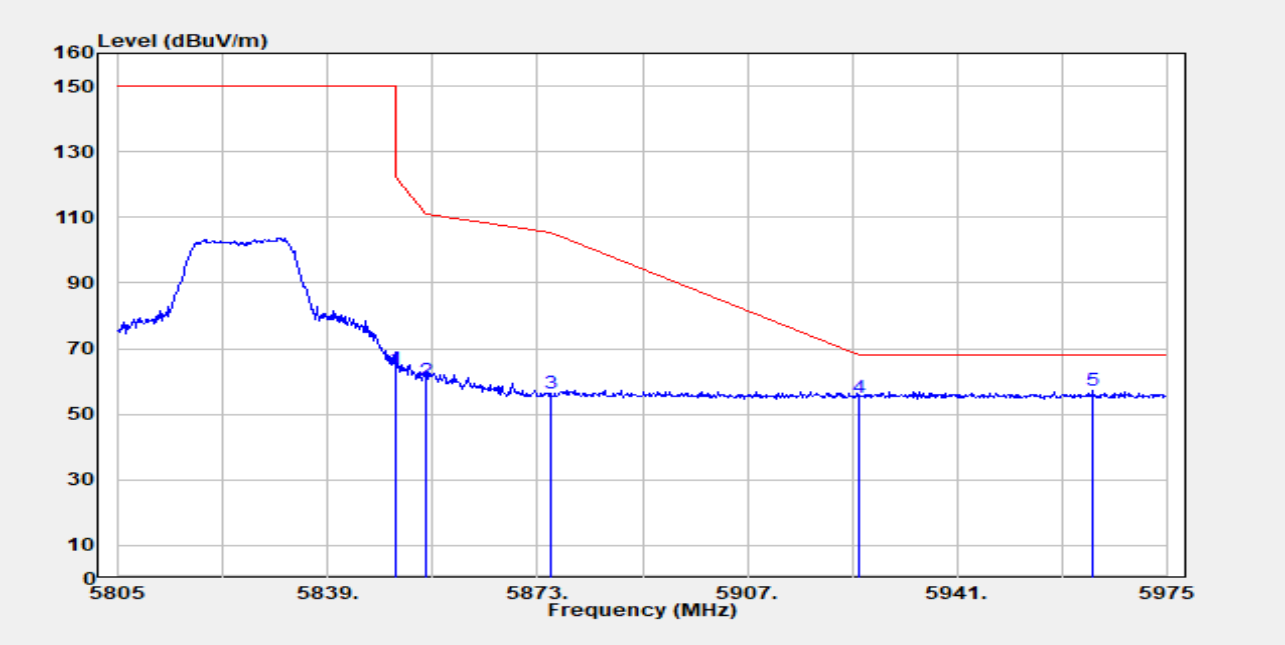
Report Number	:TERF2207001184ER	Test Site	:SAC 1
Operation Mode	:802.11a	Test Date	:2022-08-31
Test Frequency	:5825 MHz	Temp./Humi.	:24.5/65
Test Mode	:Bandedge	Antenna Pol.	:Horizontal
EUT Pol	:E1 Plane	Engineer	:Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5850.00	Peak	53.96	9.58	63.54	122.20	-58.66
5855.00	Peak	50.85	9.60	60.45	110.80	-50.35
5875.00	Peak	46.50	9.66	56.15	105.20	-49.05
5925.00	Peak	45.40	9.64	55.04	68.20	-13.16
5963.10	Peak	47.64	9.66	57.31	68.20	-10.89

~ End of Report ~

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