

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE TEST REPORT**

Applicant: Murata Manufacturing Co., Ltd.
10-1, Higashikotari, Nagaokakyo-shi, Kyoto 617-8555 Japan

Manufacturer: Murata Manufacturing Co., Ltd.
10-1, Higashikotari, Nagaokakyo-shi, Kyoto 617-8555 Japan

Product Name: Communication Module

Brand Name: muRata

Model No.: For FCC :
LBES5PL2EL, LBEE5PL2DL
For ISCED :
LBES5PL2EL-SANT, LBES5PL2EL-DANT,
LBEE5PL2DL-SANT, LBEE5PL2DL-DANT

Model Difference: Refer to section 1.6

Report Number: TERF2211002517E2

FCC ID VPYLBES5PL2EL

IC: 772C-LBES5PL2EL

Issue Date: Mar. 22, 2023

Date of Test: Feb. 14, 2023

Date of EUT Received: Nov. 25, 2022

Approved By

Arno Hsieh

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 and §15.407, ISCED 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
TERF2211002517E2	00	Original	Mar. 02, 2023	Yami Kuo	
TERF2211002517E2	01	Revise applicant's address and model difference	Mar. 22, 2023	Yami Kuo	*

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.
- 2、Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received.

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	Communication Module	
Brand Name:	muRata	
Model No.:	For FCC	LBES5PL2EL, LBEE5PL2DL
	For ISCED	LBES5PL2EL-SANT, LBES5PL2EL-DANT, LBEE5PL2DL-SANT, LBEE5PL2DL-DANT
Model Difference:	Refer to section 1.6	
Hardware Version:	1	
Firmware Version:	N/A	
EUT Series No.:	L#6	
Power Supply:	3.3Vdc, 1.8Vdc	
Test Software (Name/Version)	Tera Term V4.106	

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1.2 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 2 Feb. 2017

RSS-Gen, Issue 5 April 2018

ANSI C63.10:2013

1.3 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designa- tion 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 indica- tion where measurements occurred in specific test site and address.				

1.4 Special Accessories

There are no special accessories used while test was conducted.

1.5 Equipment Modifications

There was no modification incorporated into the EUT.

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1.6 Model Difference

1. There are 4 HVINs with 2 PMNs as below

- a. The LBES5PL2EL-SANT and LBES5PL2EL-DANT are electrically identical.

HVIN	PMN	Chip on C101	RF functions
LBES5PL2EL-SANT	LBES5PL2EL	IW612	WLAN 2.4GHz,5GHz, BT,BLE, IEEE802.15.4
LBES5PL2EL-DANT			

- b. The LBEE5PL2DL-SANT and LBEE5PL2DL-DANT are electrically identical.

HVIN	PMN	Chip on C101	RF functions
LBEE5PL2DL-SANT	LBEE5PL2DL	IW611	WLAN 2.4GHz,5GHz, BT,BLE
LBEE5PL2DL-DANT			

2. In addition, there are 2 HMNs, the differences between the HMN(s) are

HMN	HVIN	Antenna connector(s)	WLAN	BT	BLE	IEEE802.15.4
P2ML10229-D	LBES5PL2EL-DANT	2 (ANT0, ANT1)	ANT0	ANT1	ANT1	ANT1
	LBEE5PL2DL-DANT					NA
P2ML10229-S	LBES5PL2EL-SANT	1 (ANT0)	ANT0	ANT0	ANT0	ANT0
	LBEE5PL2DL-SANT					NA

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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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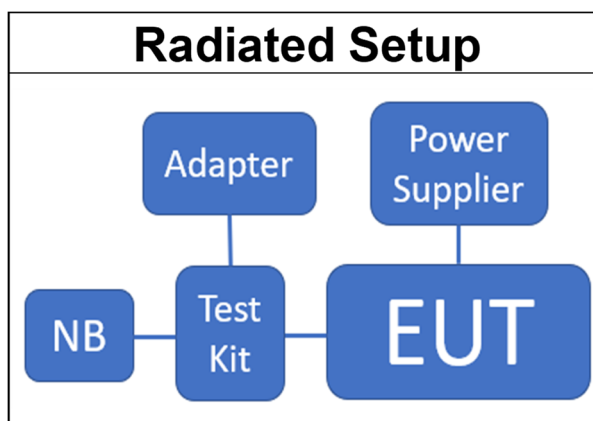
2.4 Measurement Results Explanation Example

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 C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	T440p	P0000665	N/A	N/A
USB Cable	ZHUANG SHAN CHUAN	E333601	N/A	N/A	N/A
Adapter	EDACPOWER	EA1045CR	N/A	N/A	N/A

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3 DESCRIPTION OF TEST MODES

3.1 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.

Simultaneously constitute
WLAN 2.4G_ANT0+Bluetooth_ANT1
WLAN 5G_ANT0+Bluetooth_ANT1
WLAN 2.4G_ANT0+Bluetooth LE_ANT1
WLAN 5G_ANT0+Bluetooth LE_ANT1
WLAN 2.4G_ANT0+IEEE 802.15.4_ANT1
WLAN 5G_ANT0+IEEE 802.15.4_ANT1

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4 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
Undesignable radiated emission measurement	+/- 1.68 dB
Temperature	+/- 0.7 °C
Humidity	+/- 3 %
DC / AC Power Source	+/- 1 %

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

Note:

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

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5 UNDESIRABLE RADIATED EMISSION MEASUREMENT

5.1 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.

5.1.1 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	$f \leq 5150$ $f \geq 5350$	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	$f \leq 5470$ $f \geq 5725$	PK: -27	PK: 68.2
15.407(b)(4)(i) RSS-247 §6.2.4.2	5725~5850	at 75 MHz or more above or below the band edge		

5.1.2 Spurious Emission

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands must also comply with the §15.209 and RSS-Gen §8.9 Table 5 and 6 limit as below.

And according to §15.33(a) (1) & RSS-Gen §6.13.2.a, for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower:

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note:

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

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5.2 Measurement Equipment Used:

Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-300	11/11/2022	11/10/2023
Horn Antenna	Schwarzbeck	BBHA9170	185	08/22/2022	08/21/2023
Horn Antenna	Schwarzbeck	BBHA9120D	1187	01/12/2023	01/11/2024
Loop Antenna	ETS.LINDGREN	6502	143303	05/14/2022	05/13/2023
3m Site NSA	SGS	966 chamber C	N/A	03/02/2022	03/01/2023
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	04/01/2022	03/31/2023
DC Power Supply	Agilent	E3640A	MY53170008	09/12/2022	09/11/2023
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R
Pre-Amplifier	EMC Instruments	EMC330	980096	11/16/2022	11/15/2023
Pre-Amplifier	EMC Instruments	EMC0011830	980199	11/16/2022	11/15/2023
Pre-Amplifier	EMC Instruments	EMC18405SEE	980881	10/25/2022	10/24/2023
Attenuator	Woken	WATT-218FS-10	RF16	11/16/2022	11/15/2023
Coaxial Cable	Huber Suhner	EMC106-SM-SM-9100	150704	11/16/2022	11/15/2023
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	11/16/2022	11/15/2023
Coaxial Cable	Huber Suhner	RG 214/U	W22.03	11/16/2022	11/15/2023

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

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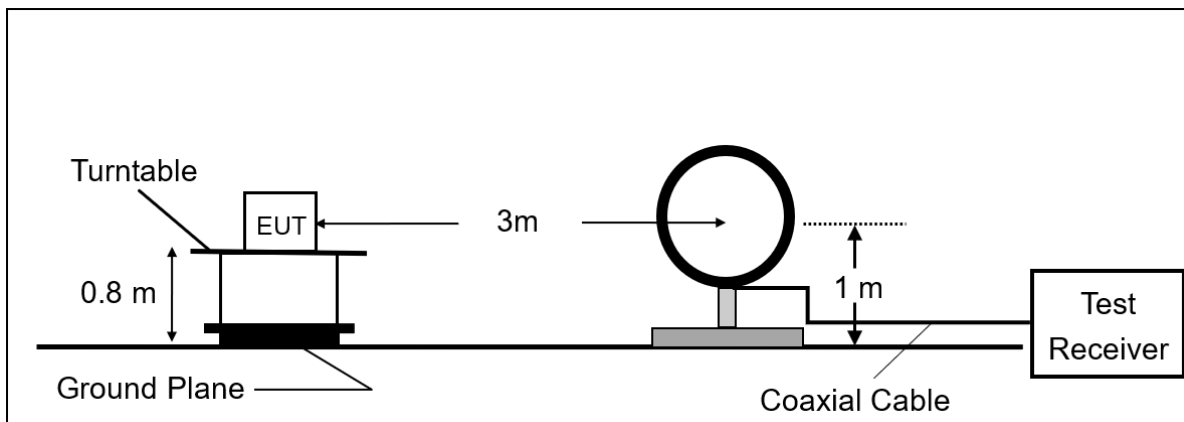
f (886-2) 2298-0488

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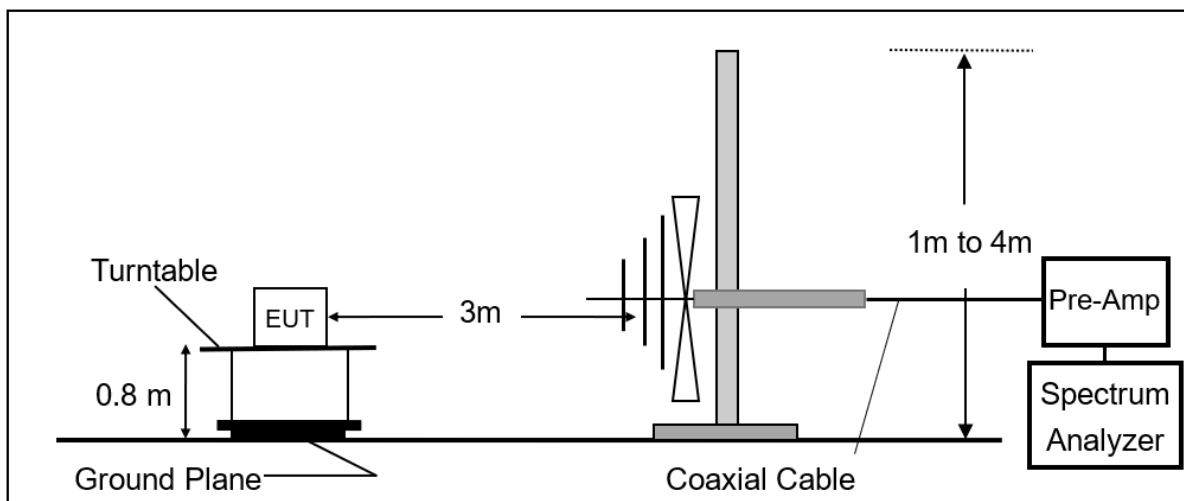
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5.3 Test Setup

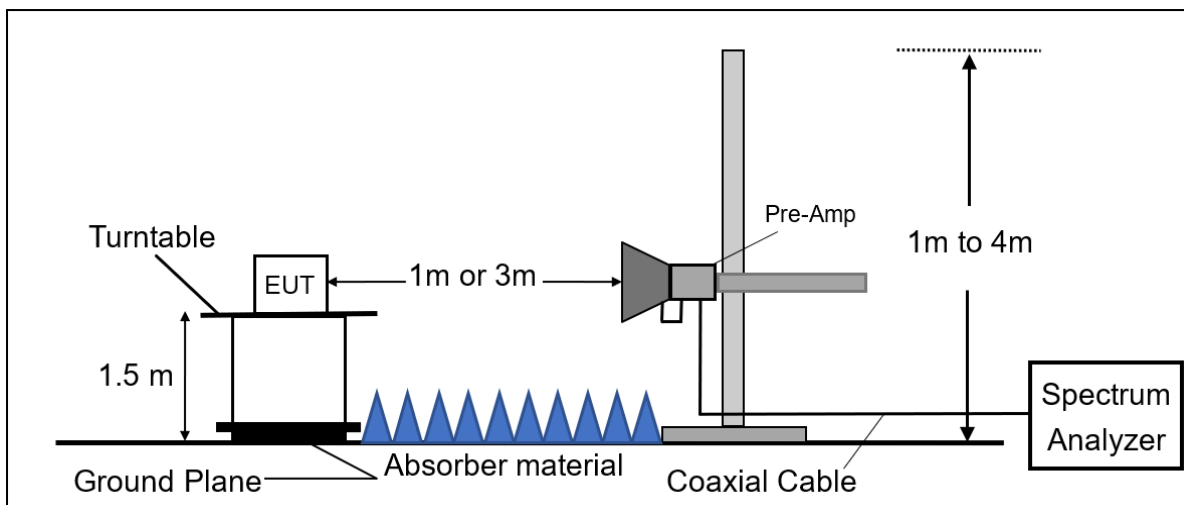
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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5.4 Measurement Procedure

1. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
2. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
4. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz
5. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
6. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Maximum Emission Measurements at frequency above 1 GHz.
7. 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.
8. 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.
9. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
10. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
11. Repeat above procedures until all frequency measured were complete.

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5.5 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)

5.6 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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5.7 Radiated Spurious Emission Measurement Result

5.7.1 Spurious Emission

Report Number :TERF2211002517E2

Test Site :SAC C

Operation Mode :802.11b+BR

Test Date :2023-02-13

Test Frequency :2437+2402 MHz

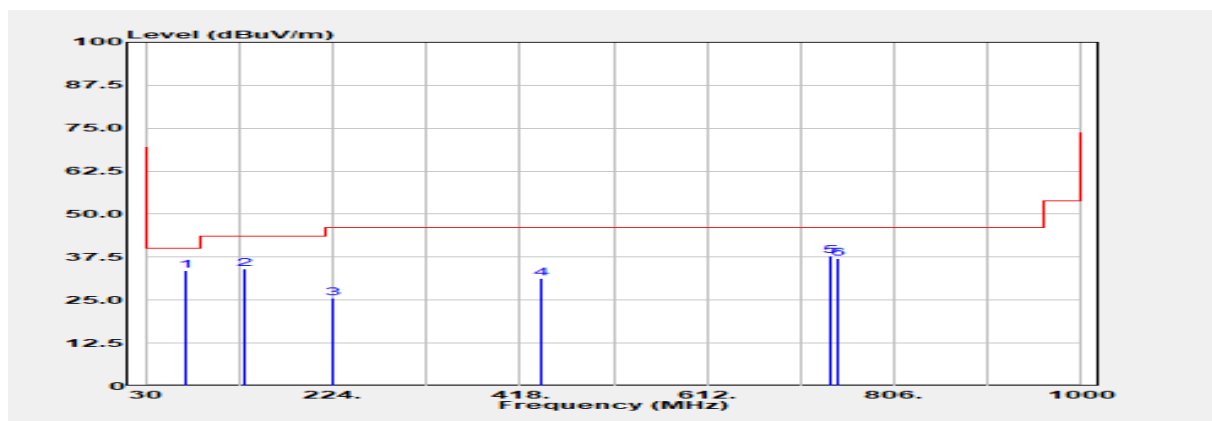
Temp./Humi. :22.1/72

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



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
70.740	Peak	48.82	-15.26	33.56	40.00	-6.44
131.850	Peak	47.81	-13.68	34.13	43.50	-9.37
224.970	Peak	40.55	-15.04	25.51	46.00	-20.49
441.280	Peak	37.53	-6.16	31.37	46.00	-14.63
741.010	Peak	38.29	-0.56	37.73	46.00	-8.27
746.830	Peak	37.83	-0.62	37.21	46.00	-8.79

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Report Number :TERF2211002517E2

Test Site :SAC C

Operation Mode :802.11b+BR

Test Date :2023-02-13

Test Frequency :2437+2402 MHz

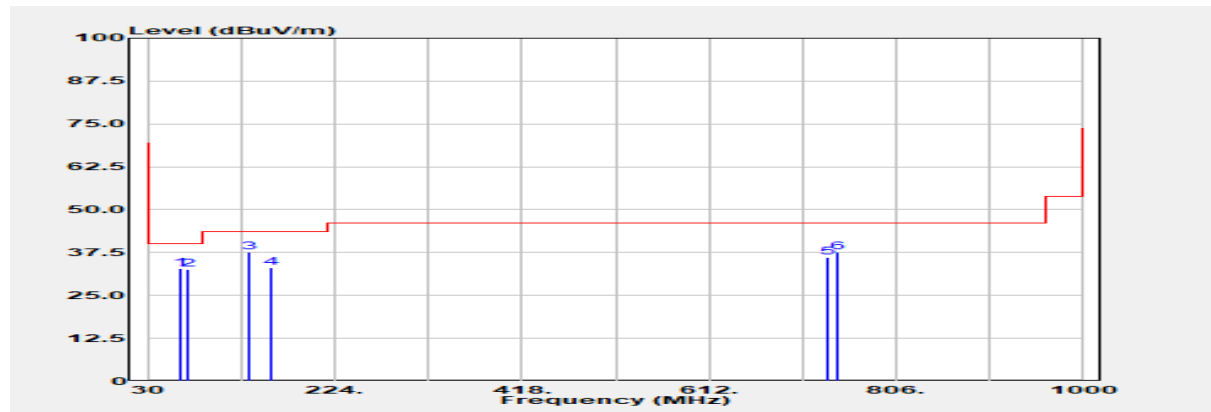
Temp./Humi. :22.1/72

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



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
64.920	Peak	47.07	-14.21	32.85	40.00	-7.15
70.740	Peak	47.82	-15.26	32.56	40.00	-7.44
135.730	Peak	50.86	-13.19	37.68	43.50	-5.82
157.070	Peak	45.28	-12.15	33.13	43.50	-10.37
734.220	Peak	36.61	-0.39	36.22	46.00	-9.78
745.860	Peak	38.28	-0.56	37.72	46.00	-8.28

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Report Number :TERF2211002517E2

Test Site :SAC C

Operation Mode :802.11ax20+BR

Test Date :2023-02-13

Test Frequency :2437+2402 MHz

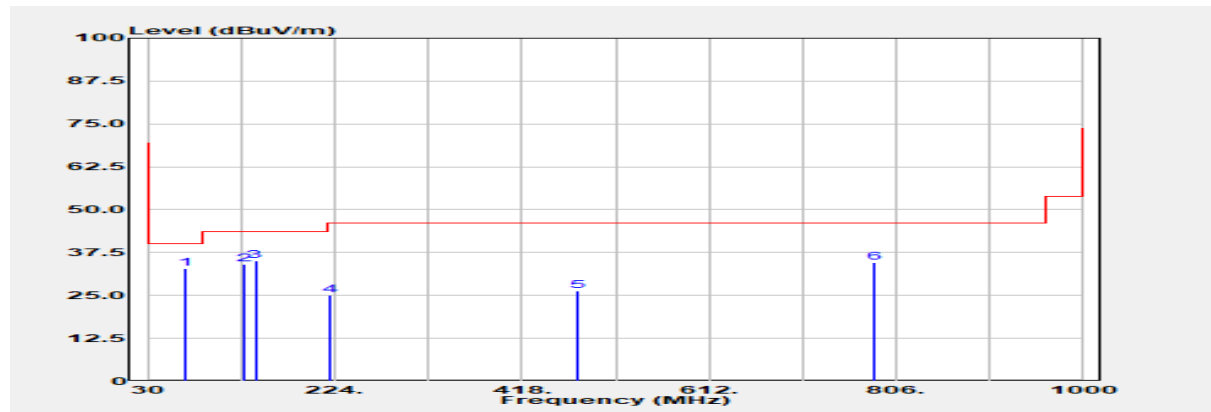
Temp./Humi. :22.1/72

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



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
69.770	Peak	48.01	-15.26	32.75	40.00	-7.25
129.910	Peak	47.98	-13.85	34.13	43.50	-9.37
141.550	Peak	47.67	-12.68	34.99	43.50	-8.51
220.120	Peak	40.27	-15.18	25.09	46.00	-20.91
475.230	Peak	32.69	-6.47	26.22	46.00	-19.78
783.690	Peak	33.71	0.93	34.64	46.00	-11.36

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Report Number :TERF2211002517E2

Test Site :SAC C

Operation Mode :802.11ax20+BR

Test Date :2023-02-13

Test Frequency :2437+2402 MHz

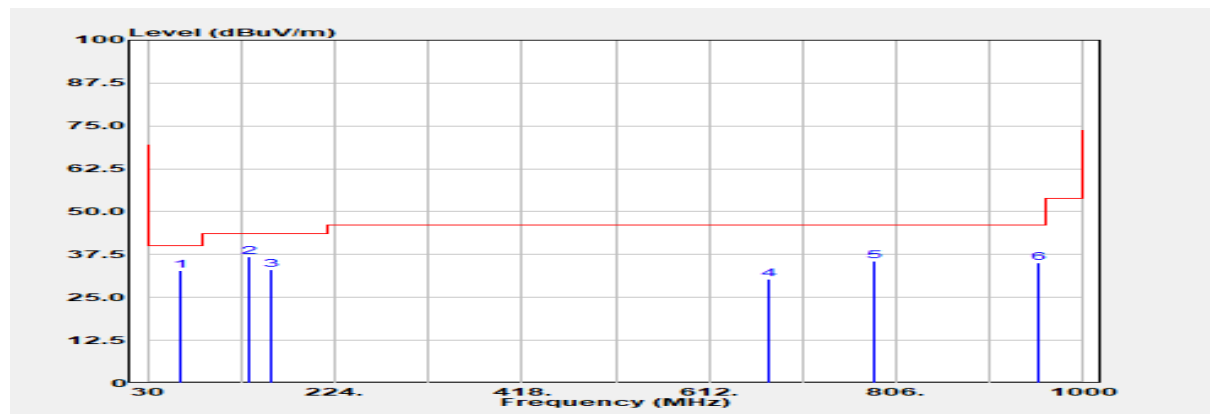
Temp./Humi. :22.1/72

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
64.920	Peak	47.02	-14.21	32.80	40.00	-7.20
134.760	Peak	50.24	-13.32	36.92	43.50	-6.58
157.070	Peak	45.22	-12.15	33.07	43.50	-10.43
675.050	Peak	31.78	-1.56	30.22	46.00	-15.78
783.690	Peak	34.63	0.93	35.56	46.00	-10.44
954.410	Peak	31.25	3.73	34.98	46.00	-11.02

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Report Number :TERF2211002517E2

Test Site :SAC C

Operation Mode :802.11a+BR

Test Date :2023-02-13

Test Frequency :5580+2402 MHz

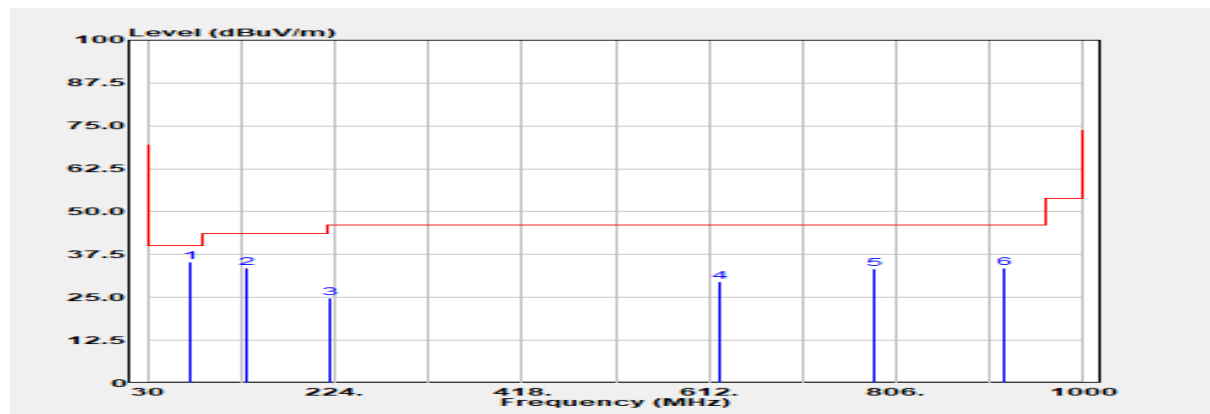
Temp./Humi. :22.1/72

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
74.620	Peak	51.43	-16.07	35.35	40.00	-4.65
131.850	Peak	47.29	-13.68	33.60	43.50	-9.90
220.120	Peak	40.10	-15.18	24.92	46.00	-21.08
623.640	Peak	31.97	-2.29	29.68	46.00	-16.32
783.690	Peak	32.38	0.93	33.32	46.00	-12.68
918.520	Peak	30.20	3.40	33.60	46.00	-12.40

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Report Number :TERF2211002517E2

Test Site :SAC C

Operation Mode :802.11a+BR

Test Date :2023-02-13

Test Frequency :5580+2402 MHz

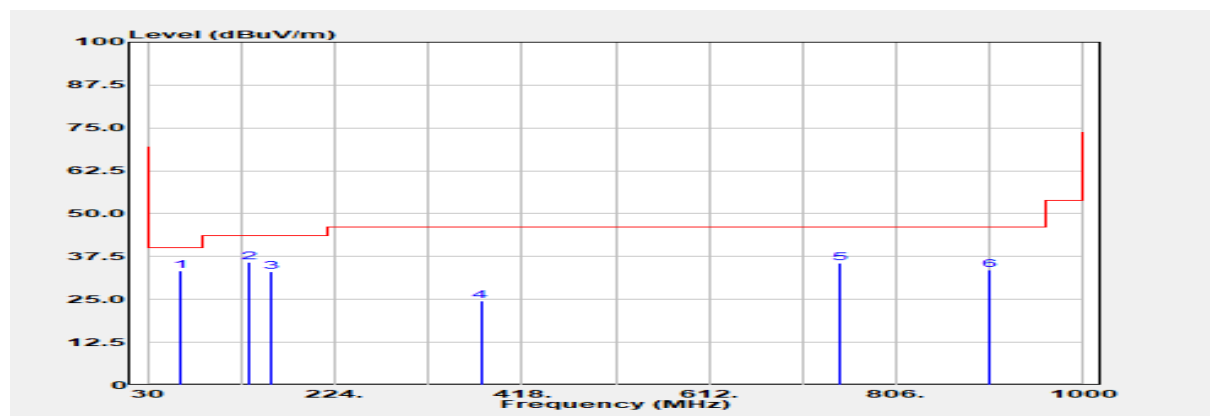
Temp./Humi. :22.1/72

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
64.920	Peak	47.62	-14.21	33.41	40.00	-6.59
135.730	Peak	49.11	-13.19	35.92	43.50	-7.58
157.070	Peak	45.13	-12.15	32.98	43.50	-10.52
375.320	Peak	33.48	-9.03	24.45	46.00	-21.55
746.830	Peak	36.28	-0.62	35.67	46.00	-10.33
902.030	Peak	30.98	2.58	33.56	46.00	-12.44

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Report Number :TERF2211002517E2

Test Site :SAC C

Operation Mode :802.11ax20+BR

Test Date :2023-02-13

Test Frequency :5220+2402 MHz

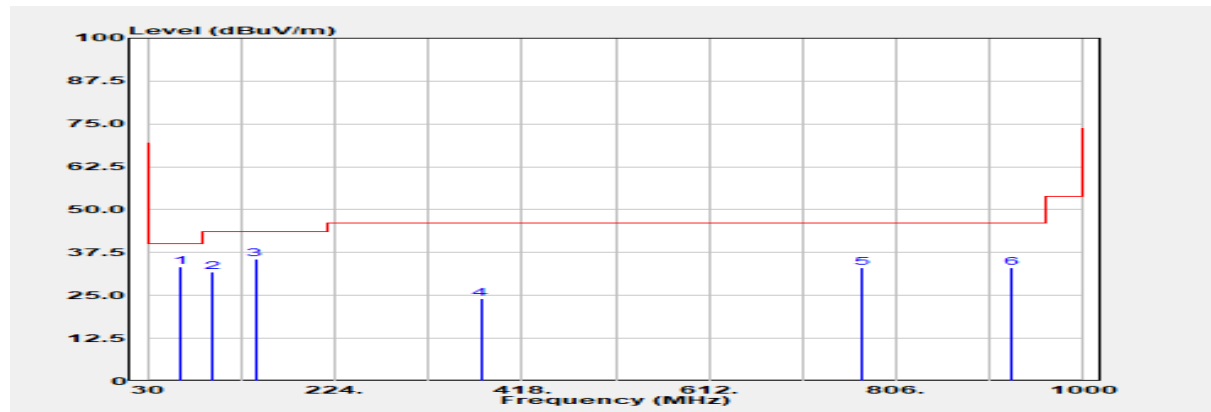
Temp./Humi. :22.1/72

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



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
63.950	Peak	47.37	-13.96	33.41	40.00	-6.59
97.900	Peak	49.26	-17.53	31.73	43.50	-11.77
141.550	Peak	48.38	-12.68	35.70	43.50	-7.80
375.320	Peak	33.01	-9.03	23.98	46.00	-22.02
771.080	Peak	32.16	0.88	33.04	46.00	-12.96
924.340	Peak	29.54	3.64	33.18	46.00	-12.82

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Report Number :TERF2211002517E2

Test Site :SAC C

Operation Mode :802.11ax20+BR

Test Date :2023-02-13

Test Frequency :5220+2402 MHz

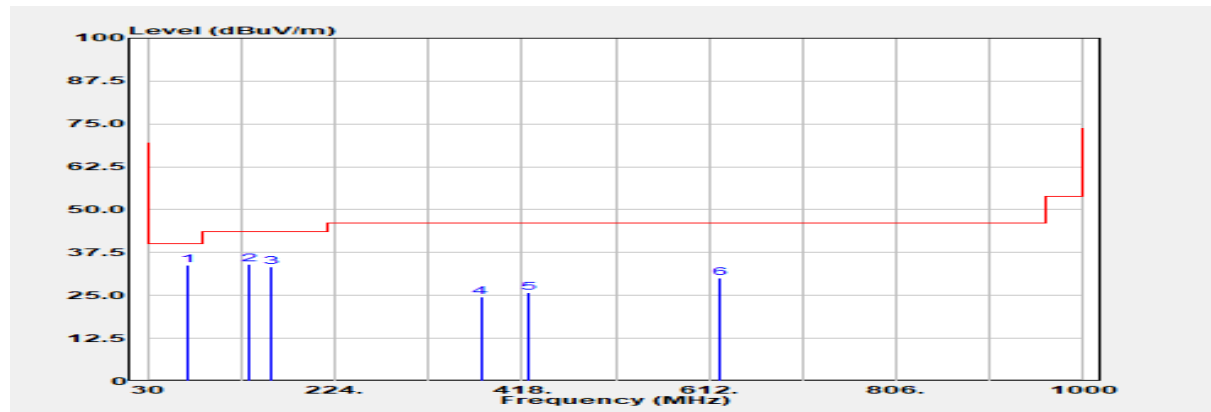
Temp./Humi. :22.1/72

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



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
70.740	Peak	49.02	-15.26	33.77	40.00	-6.23
135.730	Peak	47.29	-13.19	34.11	43.50	-9.39
158.040	Peak	45.30	-12.05	33.24	43.50	-10.26
375.320	Peak	33.52	-9.03	24.48	46.00	-21.52
424.790	Peak	33.19	-7.50	25.69	46.00	-20.31
623.640	Peak	32.40	-2.29	30.11	46.00	-15.89

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Report Number :TERF2211002517E2

Test Site :SAC C

Operation Mode :802.11b+BLE 1M

Test Date :2023-02-13

Test Frequency :2437+2402 MHz

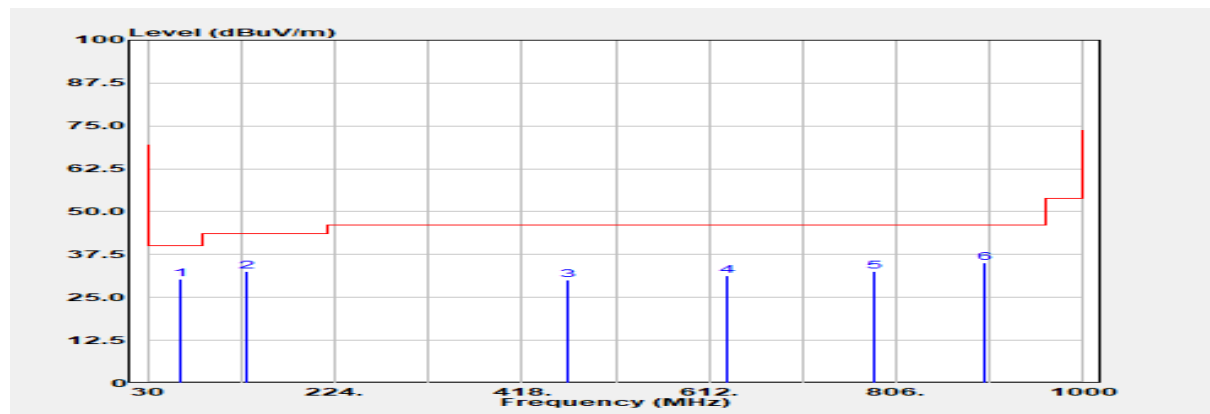
Temp./Humi. :22.1/72

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



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
64.920	Peak	44.47	-14.21	30.26	40.00	-9.74
131.850	Peak	46.36	-13.68	32.67	43.50	-10.83
464.560	Peak	36.32	-6.28	30.05	46.00	-15.95
631.400	Peak	32.69	-1.45	31.25	46.00	-14.75
783.690	Peak	31.62	0.93	32.55	46.00	-13.45
898.150	Peak	32.88	2.29	35.17	46.00	-10.83

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Report Number :TERF2211002517E2

Test Site :SAC C

Operation Mode :802.11b+BLE 1M

Test Date :2023-02-13

Test Frequency :2437+2402 MHz

Temp./Humi. :22.1/72

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
64.920	Peak	47.21	-14.21	32.99	40.00	-7.01
141.550	Peak	47.22	-12.68	34.54	43.50	-8.96
157.070	Peak	48.89	-12.15	36.74	43.50	-6.76
205.570	Peak	47.09	-15.75	31.34	43.50	-12.16
424.790	Peak	39.65	-7.50	32.16	46.00	-13.84
623.640	Peak	33.01	-2.29	30.71	46.00	-15.29

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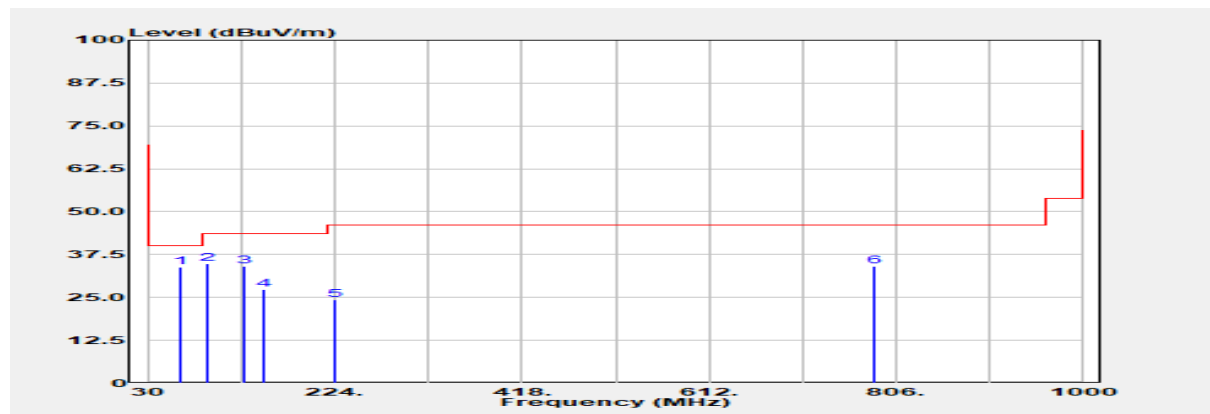
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Report Number :TERF2211002517E2
 Operation Mode :802.11ax20+BLE 1M
 Test Frequency :2437+2402 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2023-02-13
 Temp./Humi. :22.1/72
 Antenna Pol. :Vertical
 Engineer :Andy Wang



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
62.980	Peak	47.76	-13.99	33.78	40.00	-6.22
93.050	Peak	52.91	-18.18	34.73	43.50	-8.77
129.910	Peak	47.99	-13.85	34.14	43.50	-9.36
151.250	Peak	39.64	-12.30	27.34	43.50	-16.16
224.970	Peak	39.41	-15.04	24.37	46.00	-21.63
783.690	Peak	33.04	0.93	33.97	46.00	-12.03

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Report Number :TERF2211002517E2

Test Site :SAC C

Operation Mode :802.11ax20+BLE 1M

Test Date :2023-02-13

Test Frequency :2437+2402 MHz

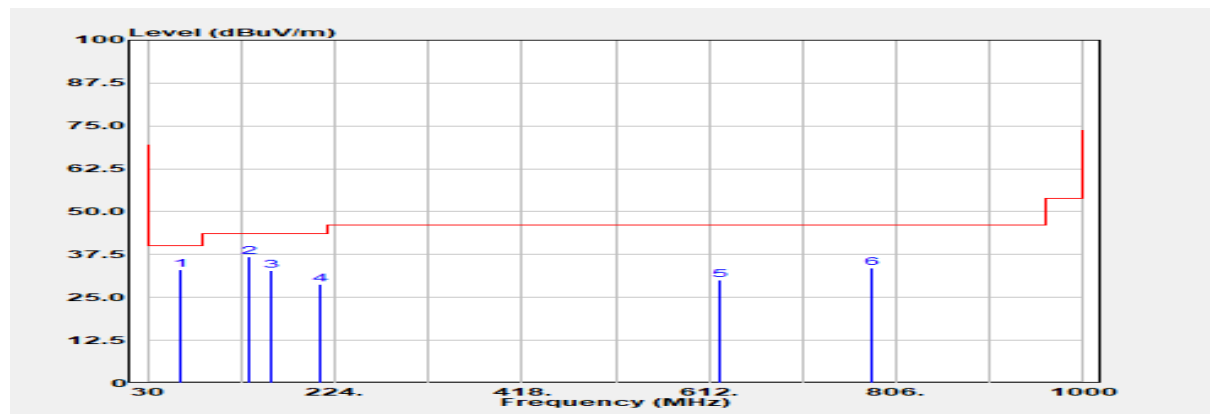
Temp./Humi. :22.1/72

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



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
64.920	Peak	47.39	-14.21	33.18	40.00	-6.82
134.760	Peak	50.12	-13.32	36.80	43.50	-6.70
157.070	Peak	44.96	-12.15	32.81	43.50	-10.69
208.480	Peak	44.53	-15.65	28.88	43.50	-14.62
623.640	Peak	32.26	-2.29	29.97	46.00	-16.03
779.810	Peak	32.83	0.75	33.58	46.00	-12.42

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Report Number :TERF2211002517E2

Test Site :SAC C

Operation Mode :802.11ax20+BLE 1M

Test Date :2023-02-13

Test Frequency :5220+2402 MHz

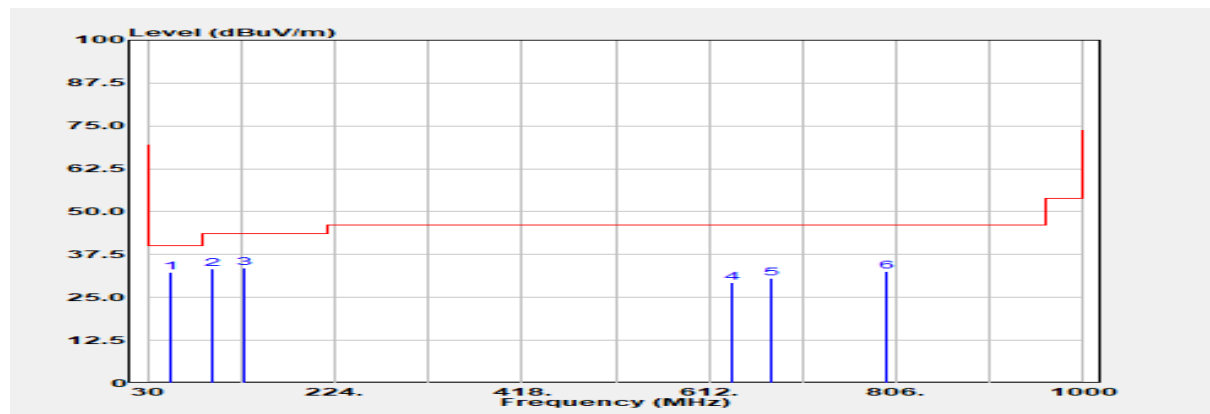
Temp./Humi. :22.1/72

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
54.250	Peak	45.24	-12.83	32.41	40.00	-7.59
97.900	Peak	50.83	-17.53	33.30	43.50	-10.20
129.910	Peak	47.34	-13.85	33.49	43.50	-10.01
635.280	Peak	30.96	-1.62	29.34	46.00	-16.66
676.990	Peak	32.01	-1.35	30.66	46.00	-15.34
795.330	Peak	32.05	0.55	32.60	46.00	-13.40

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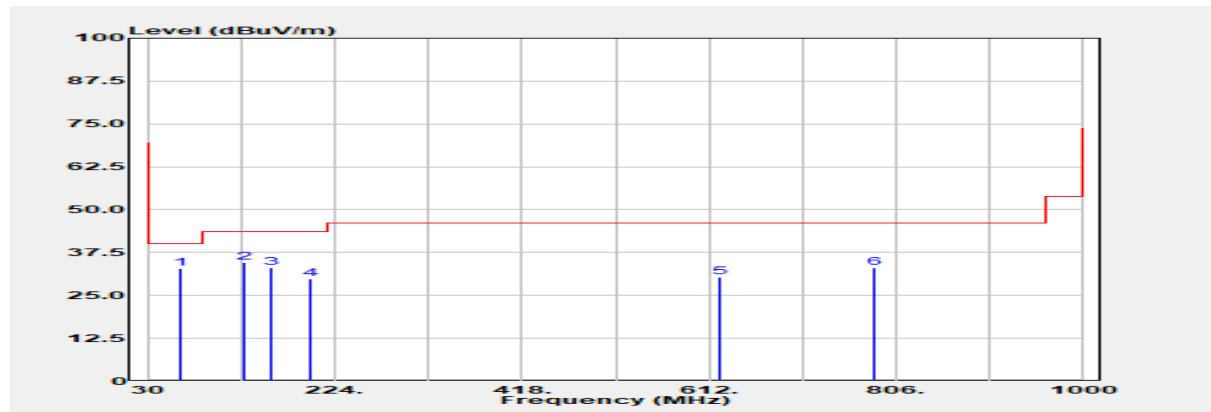
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Report Number :TERF2211002517E2
 Operation Mode :802.11ax20+BLE 1M
 Test Frequency :5220+2402 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2023-02-13
 Temp./Humi. :22.1/72
 Antenna Pol. :Horizontal
 Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
64.920	Peak	47.07	-14.21	32.86	40.00	-7.14
129.910	Peak	48.35	-13.85	34.50	43.50	-9.00
157.070	Peak	45.13	-12.15	32.98	43.50	-10.52
197.810	Peak	45.11	-15.35	29.76	43.50	-13.74
623.640	Peak	32.52	-2.29	30.23	46.00	-15.77
783.690	Peak	32.06	0.93	32.99	46.00	-13.01

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Report Number :TERF2211002517E2

Test Site :SAC C

Operation Mode :802.11a+BLE 1M

Test Date :2023-02-13

Test Frequency :5580+2402 MHz

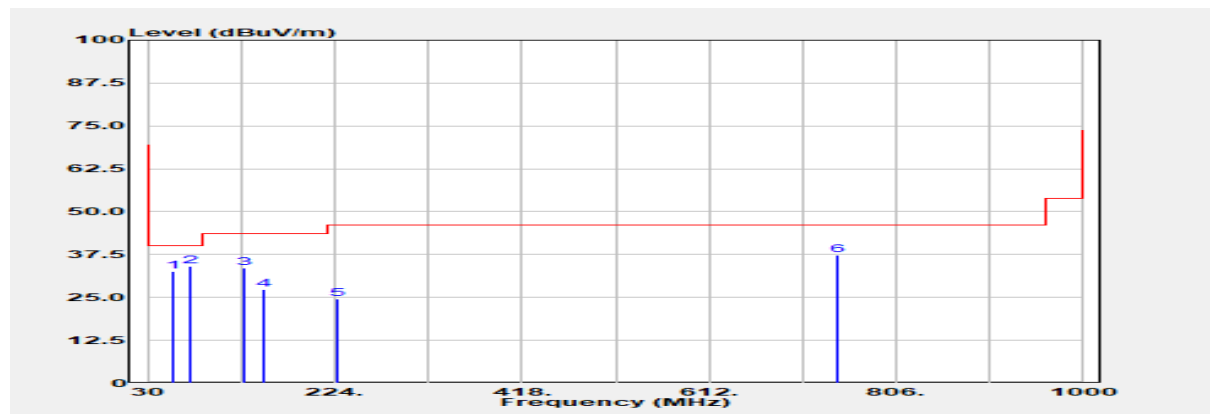
Temp./Humi. :22.1/72

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



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
55.220	Peak	45.60	-12.98	32.62	40.00	-7.38
73.650	Peak	50.00	-15.91	34.10	40.00	-5.90
129.910	Peak	47.47	-13.85	33.61	43.50	-9.89
150.280	Peak	39.71	-12.33	27.37	43.50	-16.13
226.910	Peak	39.37	-14.81	24.57	46.00	-21.43
744.890	Peak	37.76	-0.51	37.25	46.00	-8.75

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Report Number :TERF2211002517E2

Test Site :SAC C

Operation Mode :802.11a+BLE 1M

Test Date :2023-02-13

Test Frequency :5580+2402 MHz

Temp./Humi. :22.1/72

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



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
64.920	Peak	47.61	-14.21	33.39	40.00	-6.61
134.760	Peak	49.38	-13.32	36.06	43.50	-7.44
151.250	Peak	44.83	-12.30	32.53	43.50	-10.97
478.140	Peak	39.31	-6.23	33.08	46.00	-12.92
783.690	Peak	34.47	0.93	35.40	46.00	-10.60
875.840	Peak	34.22	2.25	36.47	46.00	-9.53

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Report Number :TERF2211002517E2

Test Site :SAC C

Operation Mode :802.11b+Zigbee

Test Date :2023-02-13

Test Frequency :2437+2405 MHz

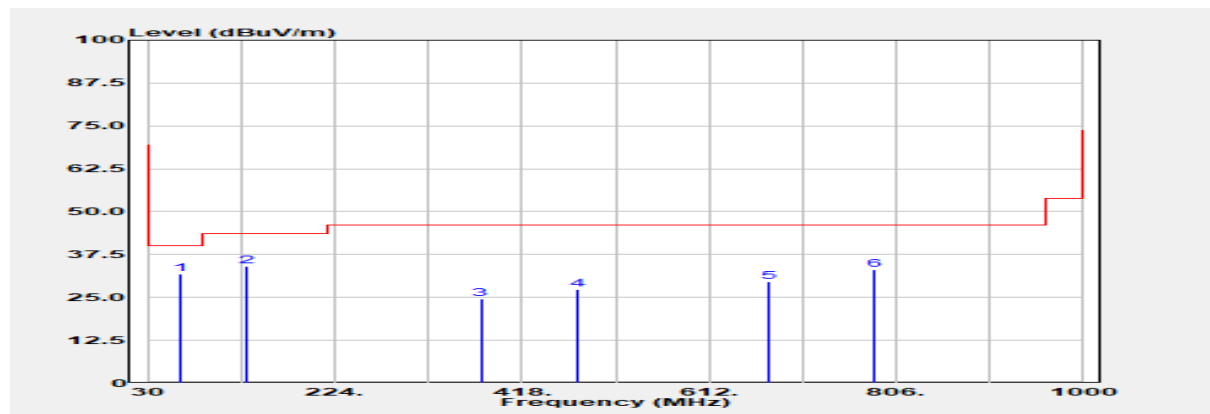
Temp./Humi. :22.1/72

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
63.950	Peak	45.82	-13.96	31.85	40.00	-8.15
131.850	Peak	47.70	-13.68	34.02	43.50	-9.48
375.320	Peak	33.60	-9.03	24.56	46.00	-21.44
475.230	Peak	33.74	-6.47	27.27	46.00	-18.73
675.050	Peak	31.12	-1.56	29.56	46.00	-16.44
783.690	Peak	32.05	0.93	32.98	46.00	-13.02

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Report Number :TERF2211002517E2

Test Site :SAC C

Operation Mode :802.11b+Zigbee

Test Date :2023-02-13

Test Frequency :2437+2405 MHz

Temp./Humi. :22.1/72

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



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
64.920	Peak	47.39	-14.21	33.18	40.00	-6.82
135.730	Peak	48.14	-13.19	34.95	43.50	-8.55
158.040	Peak	45.34	-12.05	33.29	43.50	-10.21
623.640	Peak	32.90	-2.29	30.60	46.00	-15.40
783.690	Peak	32.41	0.93	33.34	46.00	-12.66
932.100	Peak	30.38	3.28	33.66	46.00	-12.34

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Report Number :TERF2211002517E2

Test Site :SAC C

Operation Mode :802.11ax20+Zigbee

Test Date :2023-02-13

Test Frequency :2437+2405 MHz

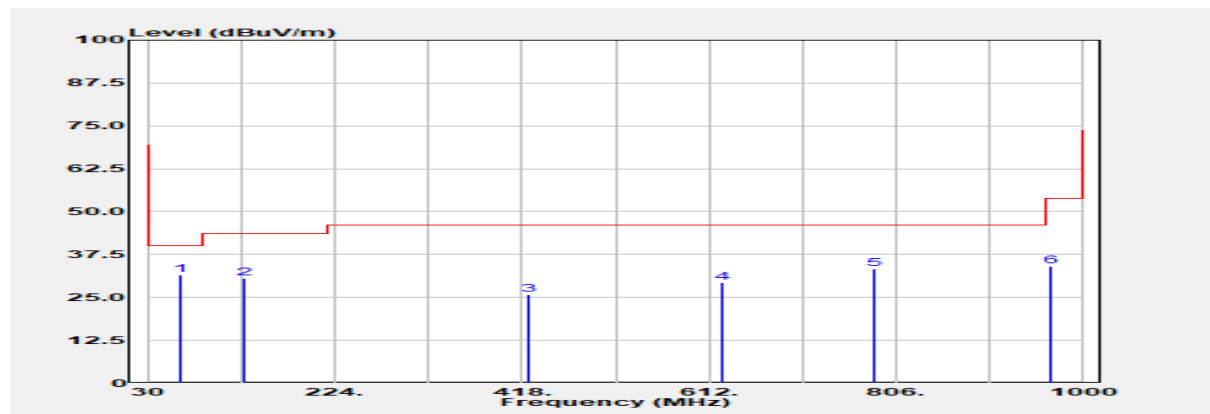
Temp./Humi. :22.1/72

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
64.920	Peak	45.86	-14.21	31.65	40.00	-8.35
129.910	Peak	44.42	-13.85	30.57	43.50	-12.93
424.790	Peak	33.20	-7.50	25.71	46.00	-20.29
626.550	Peak	31.29	-1.86	29.43	46.00	-16.57
783.690	Peak	32.30	0.93	33.23	46.00	-12.77
966.050	Peak	30.31	3.84	34.15	54.00	-19.85

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Report Number :TERF2211002517E2

Test Site :SAC C

Operation Mode :802.11ax20+Zigbee

Test Date :2023-02-13

Test Frequency :2437+2405 MHz

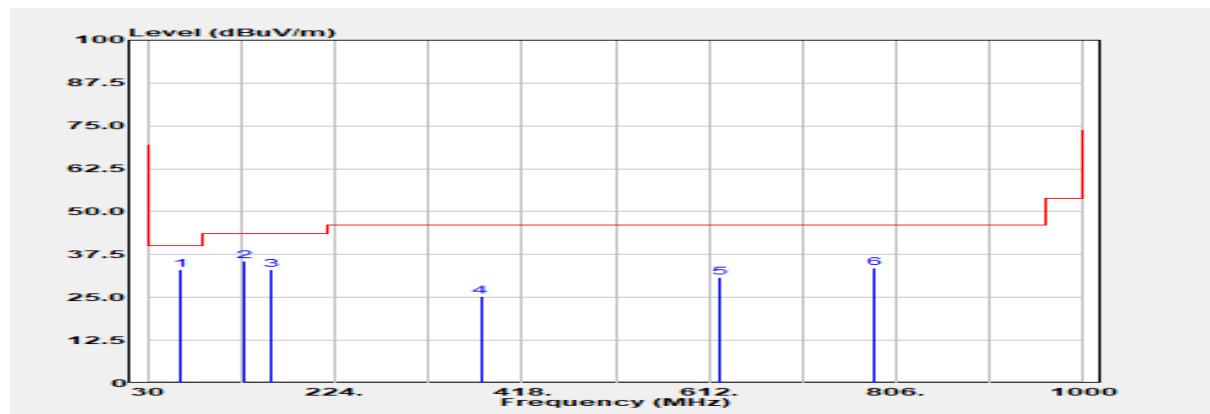
Temp./Humi. :22.1/72

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
64.920	Peak	47.41	-14.21	33.20	40.00	-6.80
128.940	Peak	49.56	-13.96	35.60	43.50	-7.90
157.070	Peak	45.12	-12.15	32.97	43.50	-10.53
375.320	Peak	34.41	-9.03	25.38	46.00	-20.62
623.640	Peak	33.05	-2.29	30.75	46.00	-15.25
783.690	Peak	32.68	0.93	33.61	46.00	-12.39

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Report Number :TERF2211002517E2

Test Site :SAC C

Operation Mode :802.11a+Zigbee

Test Date :2023-02-13

Test Frequency :5580+2405 MHz

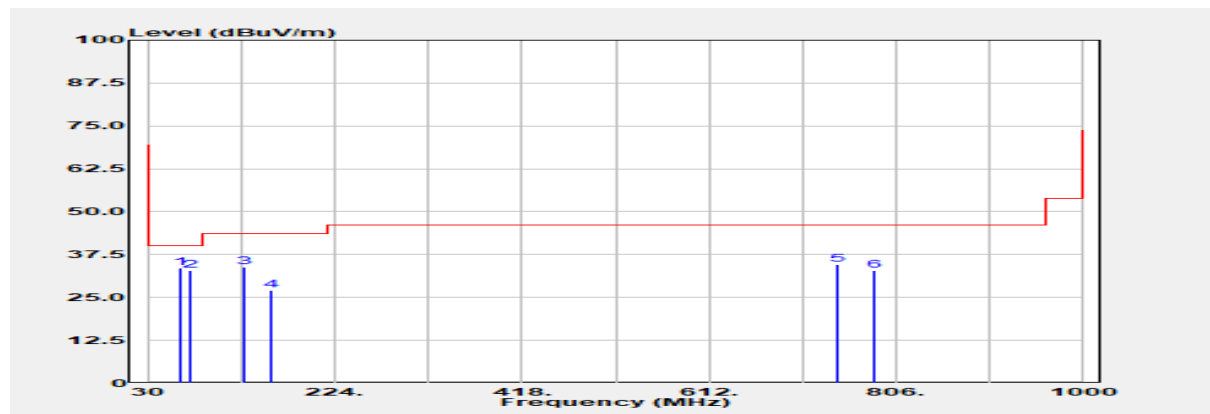
Temp./Humi. :22.1/72

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
64.920	Peak	47.76	-14.21	33.54	40.00	-6.46
73.650	Peak	48.85	-15.91	32.94	40.00	-7.06
129.910	Peak	47.68	-13.85	33.83	43.50	-9.67
157.070	Peak	39.28	-12.15	27.13	43.50	-16.37
744.890	Peak	35.06	-0.51	34.55	46.00	-11.45
783.690	Peak	31.79	0.93	32.72	46.00	-13.28

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Report Number :TERF2211002517E2

Test Site :SAC C

Operation Mode :802.11a+Zigbee

Test Date :2023-02-13

Test Frequency :5580+2405 MHz

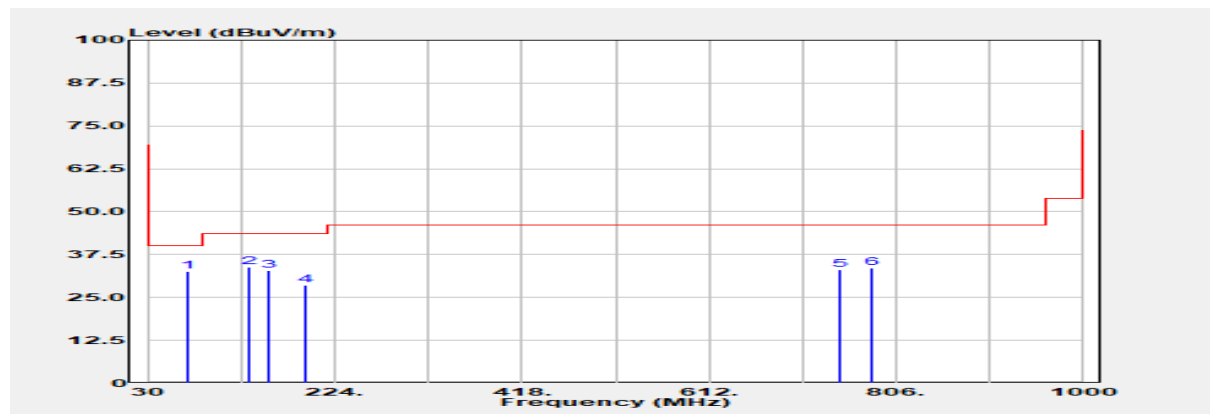
Temp./Humi. :22.1/72

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
70.740	Peak	47.96	-15.26	32.70	40.00	-7.30
134.760	Peak	47.15	-13.32	33.83	43.50	-9.67
156.100	Peak	45.01	-12.07	32.94	43.50	-10.56
192.960	Peak	43.63	-15.06	28.58	43.50	-14.92
746.830	Peak	33.72	-0.62	33.11	46.00	-12.89
780.780	Peak	32.77	0.78	33.55	46.00	-12.45

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Report Number :TERF2211002517E2

Test Site :SAC C

Operation Mode :802.11a+BLE 1M

Test Date :2023-02-13

Test Frequency :5220+2405 MHz

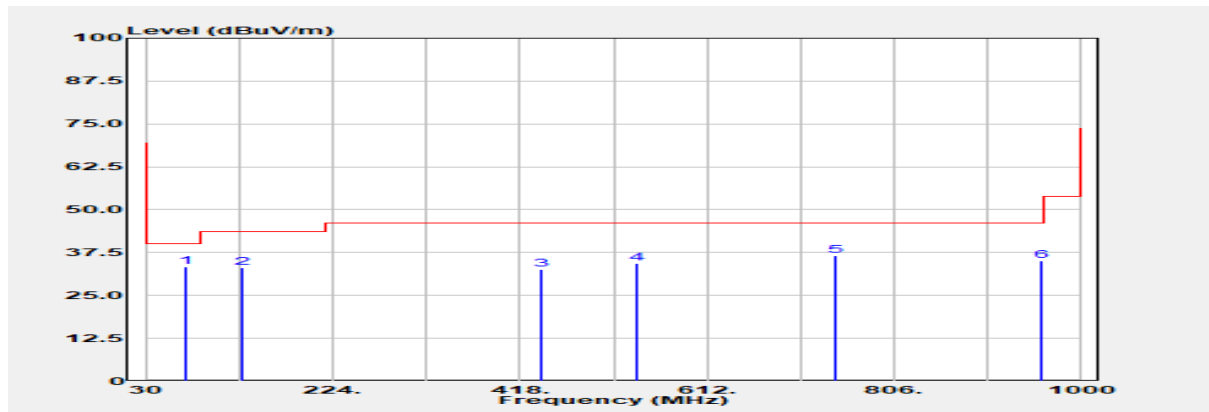
Temp./Humi. :22.1/72

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



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
70.740	Peak	48.57	-15.26	33.31	40.00	-6.69
129.910	Peak	46.95	-13.85	33.10	43.50	-10.40
441.280	Peak	38.68	-6.16	32.52	46.00	-13.48
539.250	Peak	38.38	-3.94	34.44	46.00	-11.56
744.890	Peak	37.21	-0.51	36.70	46.00	-9.30
958.290	Peak	31.26	3.89	35.15	46.00	-10.85

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Report Number :TERF2211002517E2

Test Site :SAC C

Operation Mode :802.11a+BLE 1M

Test Date :2023-02-13

Test Frequency :5220+2405 MHz

Temp./Humi. :22.1/72

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
64.920	Peak	47.29	-14.21	33.08	40.00	-6.92
134.760	Peak	47.02	-13.32	33.70	43.50	-9.80
157.070	Peak	45.28	-12.15	33.13	43.50	-10.37
207.510	Peak	44.31	-15.68	28.63	43.50	-14.87
623.640	Peak	37.34	-2.29	35.05	46.00	-10.95
745.860	Peak	38.33	-0.56	37.77	46.00	-8.23

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Report Number :TERF2211002517E2

Test Site :SAC C

Operation Mode :802.11b+BR

Test Date :2023-02-14

Test Frequency :2437+2402 MHz

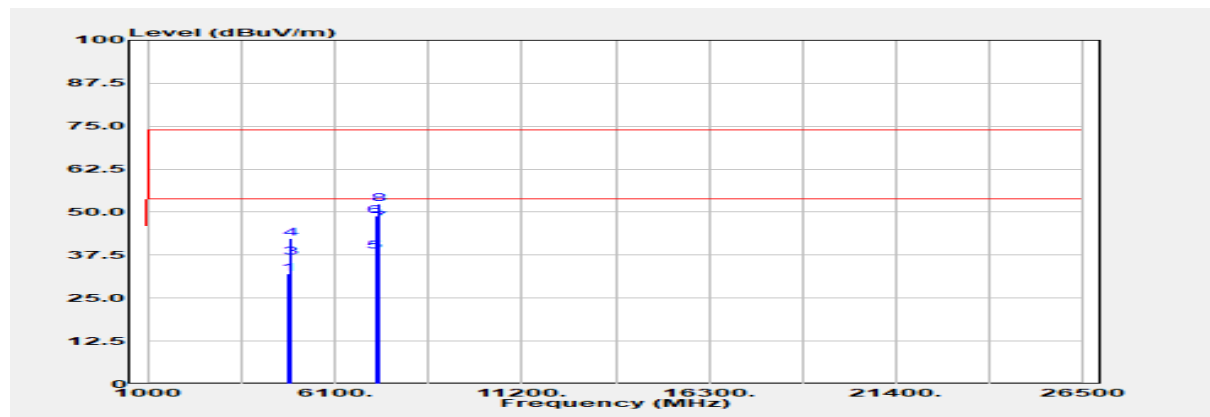
Temp./Humi. :22.6/51

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.000	Average	19.80	12.35	32.15	54.00	-21.85
4804.000	Peak	-500.01	12.35	-487.65	74.00	-561.65
4874.000	Average	24.11	12.61	36.72	54.00	-17.28
4874.000	Peak	29.71	12.61	42.31	74.00	-31.69
7206.000	Average	18.84	19.76	38.59	54.00	-15.41
7206.000	Peak	29.12	19.76	48.87	74.00	-25.13
7311.000	Average	26.47	20.68	47.15	54.00	-6.85
7311.000	Peak	31.82	20.68	52.50	74.00	-21.50

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Report Number :TERF2211002517E2

Test Site :SAC C

Operation Mode :802.11b+BR

Test Date :2023-02-14

Test Frequency :2437+2402 MHz

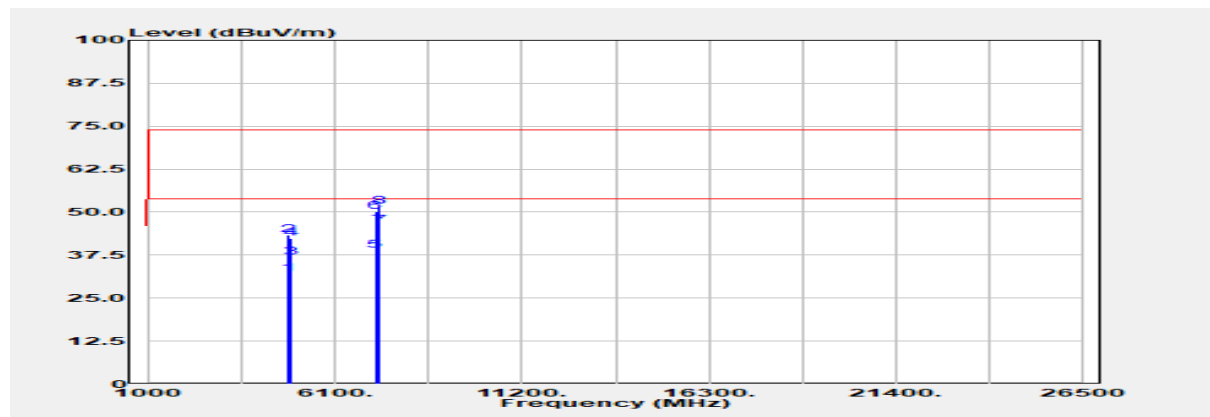
Temp./Humi. :22.6/51

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.000	Average	19.85	12.35	32.20	54.00	-21.80
4804.000	Peak	31.01	12.35	43.36	74.00	-30.64
4874.000	Average	24.33	12.61	36.94	54.00	-17.06
4874.000	Peak	29.66	12.61	42.27	74.00	-31.73
7206.000	Average	19.07	19.76	38.82	54.00	-15.18
7206.000	Peak	30.29	19.76	50.05	74.00	-23.95
7311.000	Average	25.42	20.68	46.10	54.00	-7.90
7311.000	Peak	30.89	20.68	51.57	74.00	-22.43

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Report Number :TERF2211002517E2

Test Site :SAC C

Operation Mode :802.11ax20+BR

Test Date :2023-02-14

Test Frequency :2437+2402 MHz

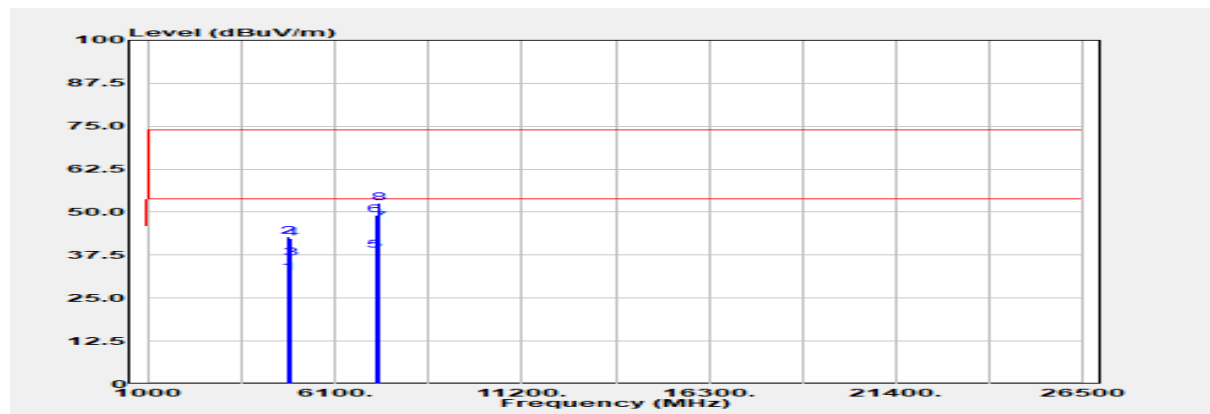
Temp./Humi. :22.6/51

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4804.000	Average	20.05	12.35	32.41	54.00	-21.59
4804.000	Peak	30.48	12.35	42.83	74.00	-31.17
4874.000	Average	23.97	12.61	36.58	54.00	-17.42
4874.000	Peak	29.72	12.61	42.32	74.00	-31.68
7206.000	Average	19.01	19.76	38.76	54.00	-15.24
7206.000	Peak	29.39	19.76	49.15	74.00	-24.85
7311.000	Average	26.49	20.68	47.17	54.00	-6.83
7311.000	Peak	31.94	20.68	52.62	74.00	-21.38

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Report Number :TERF2211002517E2

Test Site :SAC C

Operation Mode :802.11ax20+BR

Test Date :2023-02-14

Test Frequency :2437+2402 MHz

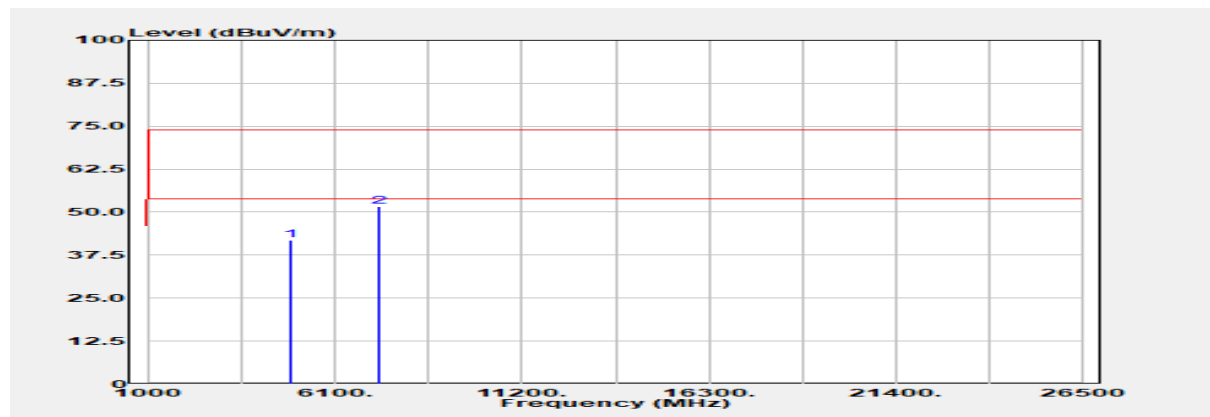
Temp./Humi. :22.6/51

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.000	Peak	29.29	12.61	41.89	74.00	-32.11
7311.000	Peak	30.86	20.68	51.54	74.00	-22.46

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Report Number :TERF2211002517E2

Test Site :SAC C

Operation Mode :802.11a+BR

Test Date :2023-02-14

Test Frequency :5580+2402 MHz

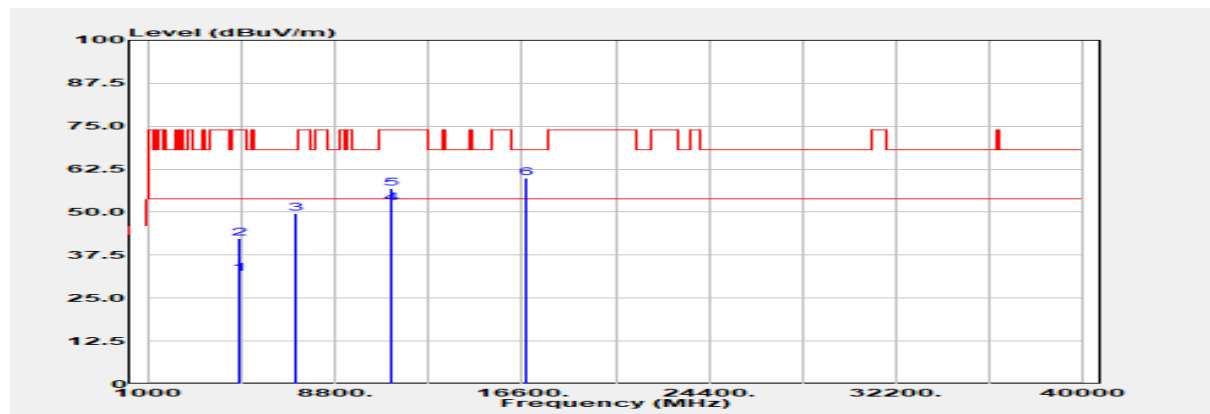
Temp./Humi. :22.6/51

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.000	Average	19.82	12.35	32.17	54.00	-21.83
4804.000	Peak	30.01	12.35	42.36	74.00	-31.64
7206.000	Peak	29.76	19.76	49.52	68.20	-18.68
11160.000	Average	25.07	27.54	52.61	54.00	-1.39
11160.000	Peak	29.34	27.54	56.88	74.00	-17.12
16740.000	Peak	27.74	32.08	59.83	68.20	-8.37

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Report Number :TERF2211002517E2

Test Site :SAC C

Operation Mode :802.11a+BR

Test Date :2023-02-14

Test Frequency :5580+2402 MHz

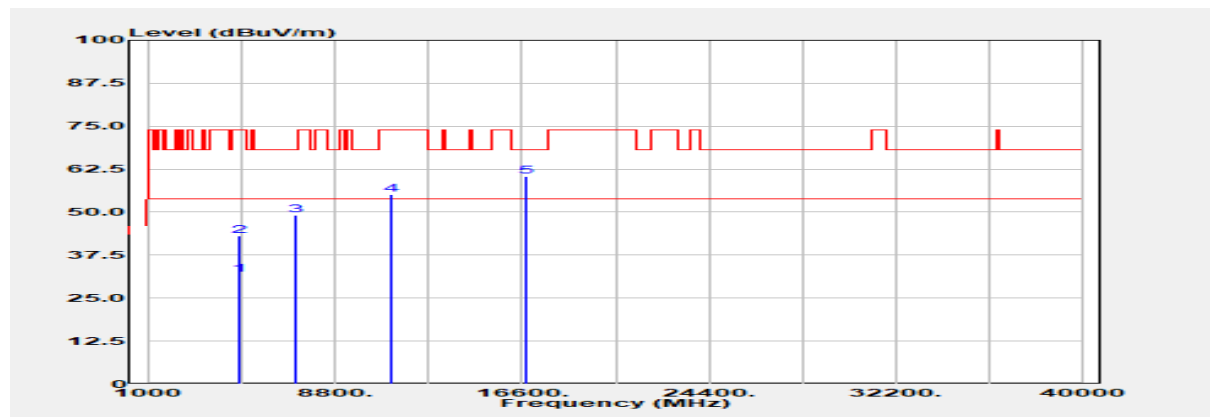
Temp./Humi. :22.6/51

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.000	Average	19.60	12.35	31.95	54.00	-22.05
4804.000	Peak	30.67	12.35	43.02	74.00	-30.98
7206.000	Peak	29.37	19.76	49.12	68.20	-19.08
11160.000	Peak	27.49	27.54	55.03	74.00	-18.97
16740.000	Peak	28.38	32.08	60.46	68.20	-7.74

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Report Number :TERF2211002517E2

Test Site :SAC C

Operation Mode :802.11ax20+BR

Test Date :2023-02-14

Test Frequency :5220+2402 MHz

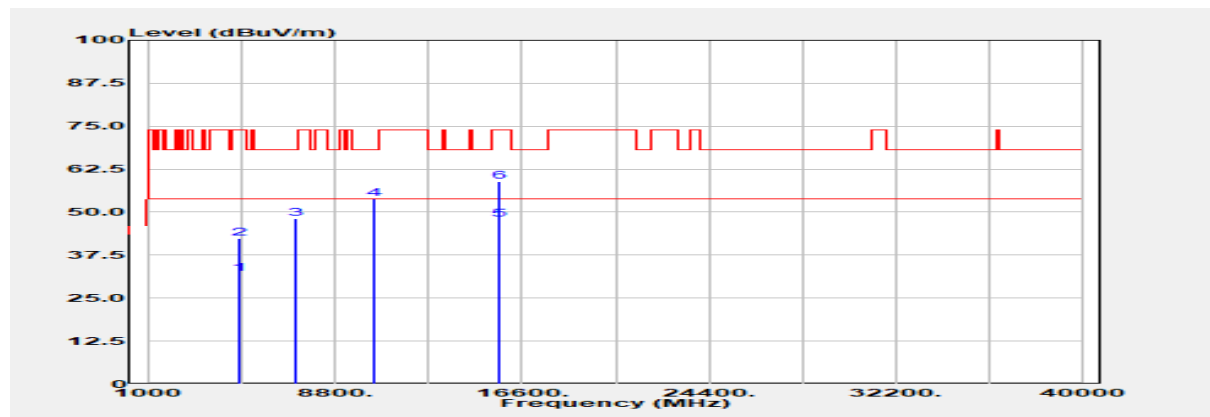
Temp./Humi. :22.6/51

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



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
4804.000	Average	19.63	12.35	31.98	54.00	-22.02
4804.000	Peak	30.10	12.35	42.45	74.00	-31.55
7206.000	Peak	28.40	19.76	48.16	68.20	-20.04
10440.000	Peak	27.50	26.27	53.76	68.20	-14.44
15660.000	Average	18.28	29.57	47.85	54.00	-6.15
15660.000	Peak	29.33	29.57	58.89	74.00	-15.11

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Report Number :TERF2211002517E2

Test Site :SAC C

Operation Mode :802.11ax20+BR

Test Date :2023-02-14

Test Frequency :5220+2402 MHz

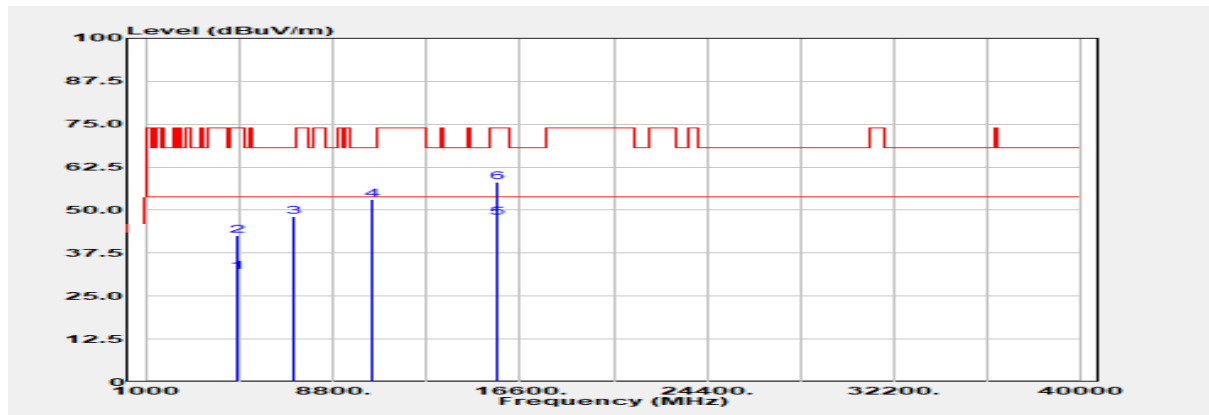
Temp./Humi. :22.6/51

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



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
4804.000	Average	19.67	12.35	32.03	54.00	-21.97
4804.000	Peak	30.17	12.35	42.52	74.00	-31.48
7206.000	Peak	28.33	19.76	48.08	68.20	-20.12
10440.000	Peak	26.75	26.27	53.01	68.20	-15.19
15660.000	Average	18.28	29.57	47.84	54.00	-6.16
15660.000	Peak	28.67	29.57	58.24	74.00	-15.76

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Report Number :TERF2211002517E2

Test Site :SAC C

Operation Mode :802.11b+BLE 1M

Test Date :2023-02-14

Test Frequency :2437+2402 MHz

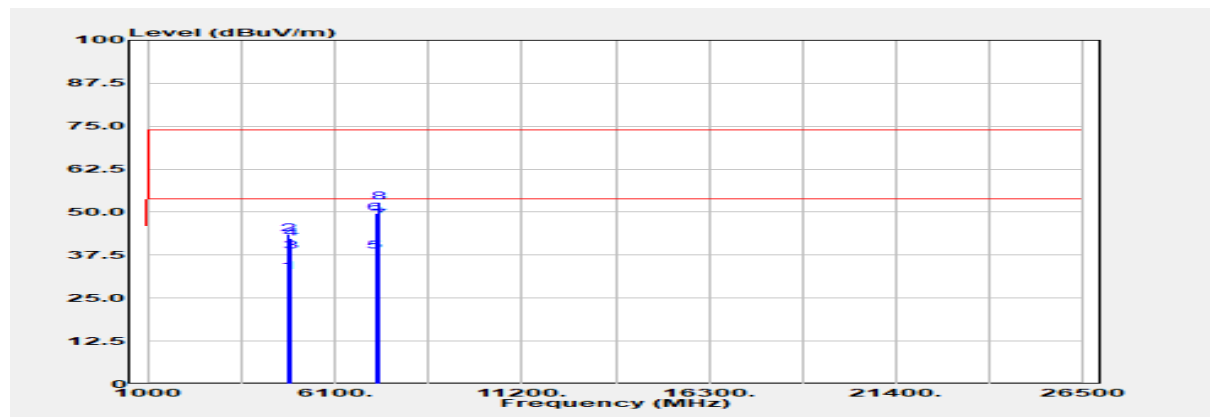
Temp./Humi. :22.6/51

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



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
4804.000	Average	20.12	12.35	32.47	54.00	-21.53
4804.000	Peak	31.23	12.35	43.58	74.00	-30.42
4874.000	Average	25.91	12.61	38.52	54.00	-15.48
4874.000	Peak	29.69	12.61	42.30	74.00	-31.70
7206.000	Average	18.88	19.76	38.64	54.00	-15.36
7206.000	Peak	29.79	19.76	49.54	74.00	-24.46
7311.000	Average	27.08	20.68	47.76	54.00	-6.24
7311.000	Peak	32.25	20.68	52.94	74.00	-21.06

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Report Number :TERF2211002517E2

Test Site :SAC C

Operation Mode :802.11b+BLE 1M

Test Date :2023-02-14

Test Frequency :2437+2402 MHz

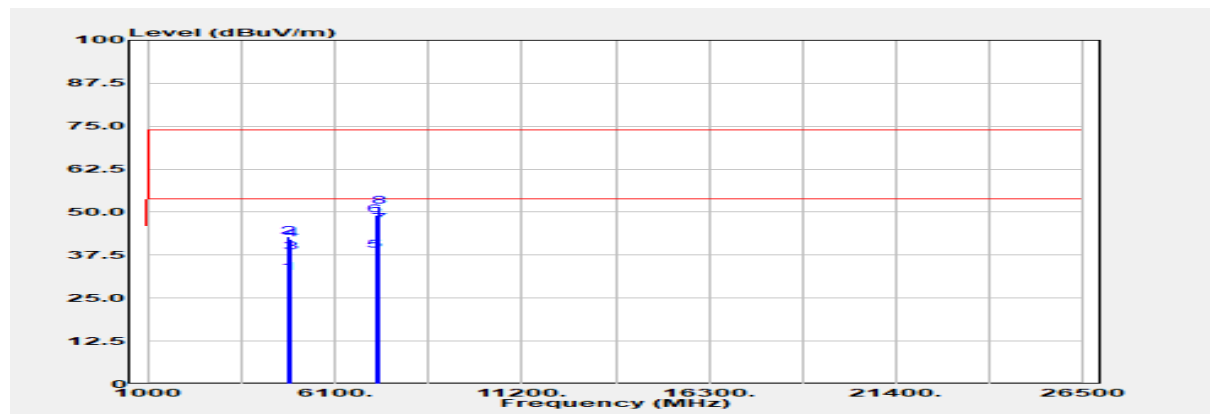
Temp./Humi. :22.6/51

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



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
4804.000	Average	19.91	12.35	32.26	54.00	-21.74
4804.000	Peak	30.46	12.35	42.81	74.00	-31.19
4874.000	Average	25.72	12.61	38.33	54.00	-15.67
4874.000	Peak	29.42	12.61	42.03	74.00	-31.97
7206.000	Average	19.00	19.76	38.76	54.00	-15.24
7206.000	Peak	29.41	19.76	49.16	74.00	-24.84
7311.000	Average	25.84	20.68	46.52	54.00	-7.48
7311.000	Peak	31.04	20.68	51.72	74.00	-22.28

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Report Number :TERF2211002517E2

Test Site :SAC C

Operation Mode :802.11ax20+BLE 1M

Test Date :2023-02-14

Test Frequency :2437+2402 MHz

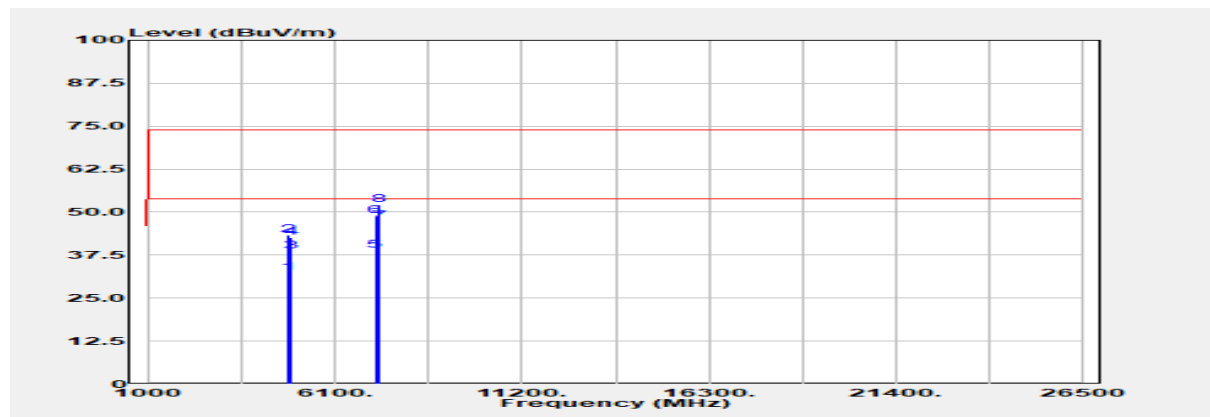
Temp./Humi. :22.6/51

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



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
4804.000	Average	20.09	12.35	32.45	54.00	-21.55
4804.000	Peak	30.99	12.35	43.34	74.00	-30.66
4874.000	Average	25.87	12.61	38.48	54.00	-15.52
4874.000	Peak	30.08	12.61	42.69	74.00	-31.31
7206.000	Average	19.00	19.76	38.75	54.00	-15.25
7206.000	Peak	29.14	19.76	48.90	74.00	-25.10
7311.000	Average	26.73	20.68	47.41	54.00	-6.59
7311.000	Peak	31.34	20.68	52.02	74.00	-21.98

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Report Number :TERF2211002517E2

Test Site :SAC C

Operation Mode :802.11ax20+BLE 1M

Test Date :2023-02-14

Test Frequency :2437+2402 MHz

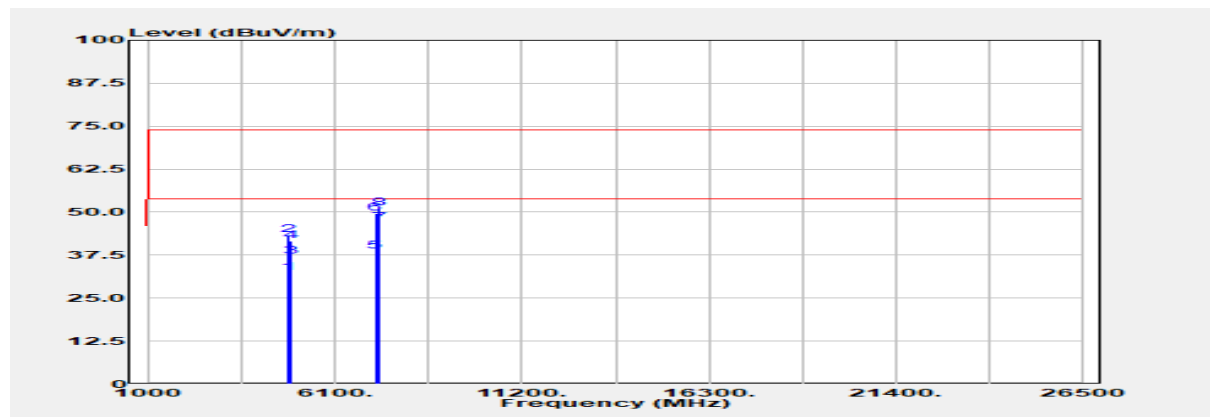
Temp./Humi. :22.6/51

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



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
4804.000	Average	19.96	12.35	32.31	54.00	-21.69
4804.000	Peak	30.94	12.35	43.30	74.00	-30.70
4874.000	Average	24.58	12.61	37.19	54.00	-16.81
4874.000	Peak	28.99	12.61	41.60	74.00	-32.40
7206.000	Average	18.87	19.76	38.63	54.00	-15.37
7206.000	Peak	29.87	19.76	49.63	74.00	-24.37
7311.000	Average	26.11	20.68	46.79	54.00	-7.21
7311.000	Peak	30.49	20.68	51.17	74.00	-22.83

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Report Number :TERF2211002517E2

Test Site :SAC C

Operation Mode :802.11a+BLE 1M

Test Date :2023-02-14

Test Frequency :5580+2402 MHz

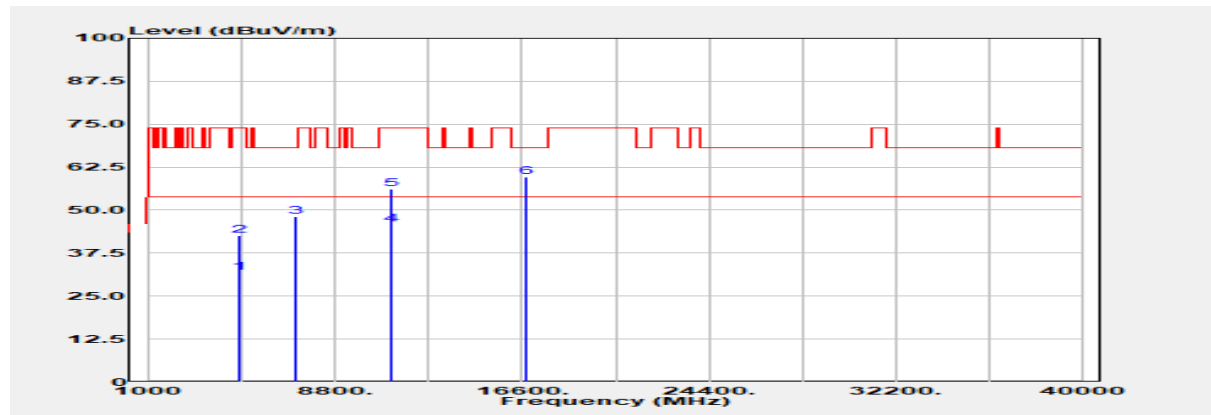
Temp./Humi. :22.6/51

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.000	Average	19.57	12.35	31.92	54.00	-22.08
4804.000	Peak	30.27	12.35	42.62	74.00	-31.38
7206.000	Peak	28.36	19.76	48.12	68.20	-20.08
11160.000	Average	18.20	27.54	45.75	54.00	-8.25
11160.000	Peak	28.65	27.54	56.19	74.00	-17.81
16740.000	Peak	27.48	32.08	59.57	68.20	-8.63

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Member of SGS Group

Report Number :TERF2211002517E2

Test Site :SAC C

Operation Mode :802.11a+BLE 1M

Test Date :2023-02-14

Test Frequency :5580+2402 MHz

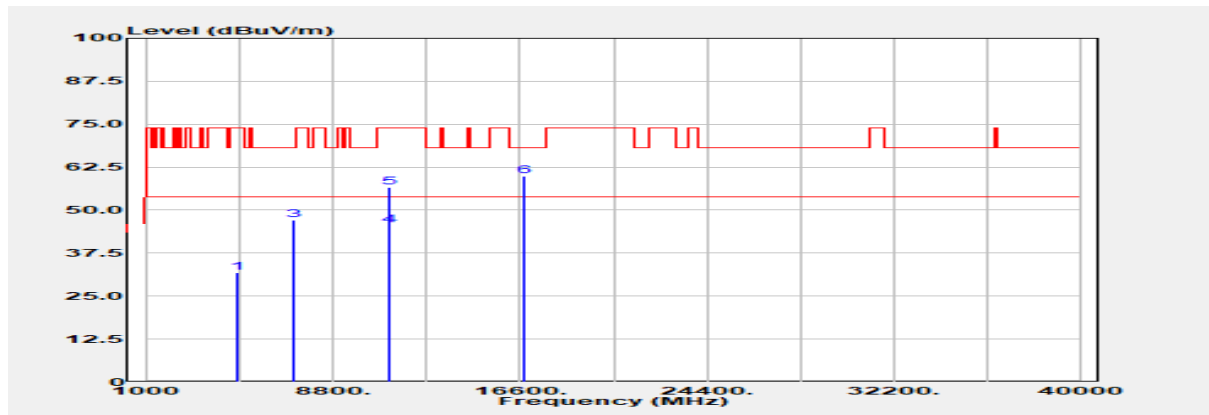
Temp./Humi. :22.6/51

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.000	Average	19.57	12.35	31.92	54.00	-22.08
4804.000	Peak	-500.01	12.35	-487.65	74.00	-561.65
7206.000	Peak	27.33	19.76	47.09	68.20	-21.11
11160.000	Average	18.11	27.54	45.65	54.00	-8.35
11160.000	Peak	29.17	27.54	56.72	74.00	-17.28
16740.000	Peak	27.86	32.08	59.95	68.20	-8.25

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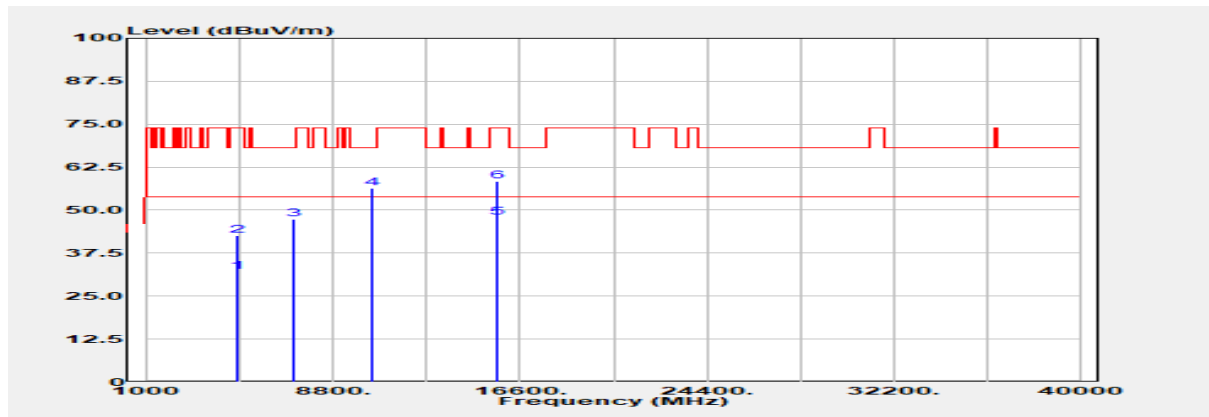
f (886-2) 2298-0488

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Report Number :TERF2211002517E2
 Operation Mode :802.11ax20+BLE 1M
 Test Frequency :5220+2402 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2023-02-14
 Temp./Humi. :22.6/51
 Antenna Pol. :Vertical
 Engineer :Andy Wang



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
4804.000	Average	19.76	12.35	32.11	54.00	-21.89
4804.000	Peak	30.25	12.35	42.60	74.00	-31.40
7206.000	Peak	27.68	19.76	47.44	68.20	-20.76
10440.000	Peak	30.08	26.27	56.35	68.20	-11.85
15660.000	Average	18.34	29.57	47.90	54.00	-6.10
15660.000	Peak	28.84	29.57	58.41	74.00	-15.59

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Report Number :TERF2211002517E2

Test Site :SAC C

Operation Mode :802.11ax20+BLE 1M

Test Date :2023-02-14

Test Frequency :5220+2402 MHz

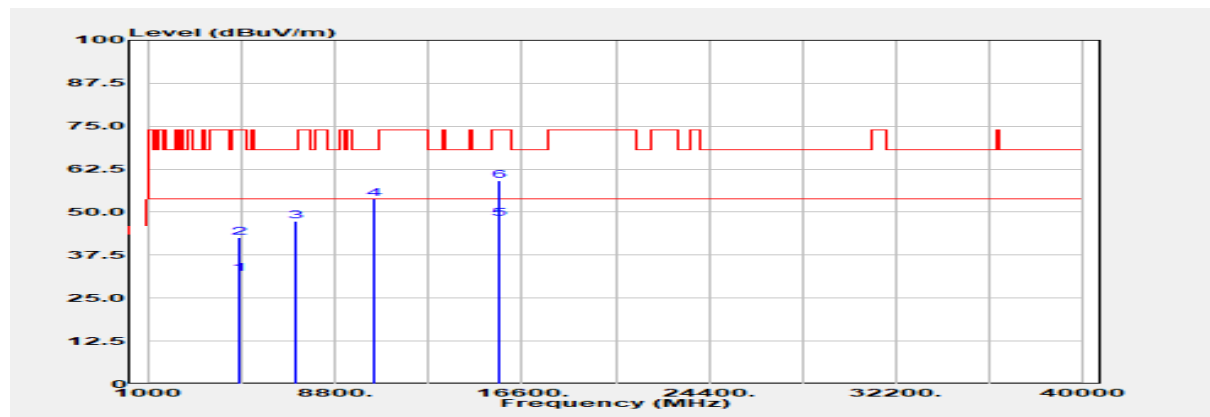
Temp./Humi. :22.6/51

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



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
4804.000	Average	19.62	12.35	31.97	54.00	-22.03
4804.000	Peak	30.32	12.35	42.68	74.00	-31.32
7206.000	Peak	27.54	19.76	47.30	68.20	-20.90
10440.000	Peak	27.67	26.27	53.94	68.20	-14.26
15660.000	Average	18.48	29.57	48.05	54.00	-5.95
15660.000	Peak	29.49	29.57	59.05	74.00	-14.95

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Report Number :TERF2211002517E2

Test Site :SAC C

Operation Mode :802.11b+Zigbee

Test Date :2023-02-14

Test Frequency :2437+2405 MHz

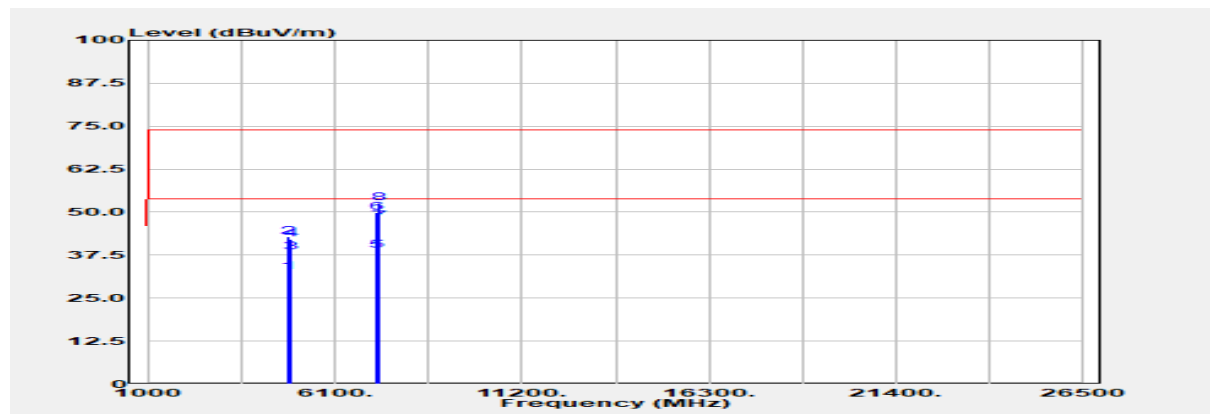
Temp./Humi. :22.6/51

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



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
4810.000	Average	20.15	12.41	32.56	54.00	-21.44
4810.000	Peak	30.34	12.41	42.75	74.00	-31.25
4874.000	Average	25.62	12.61	38.23	54.00	-15.77
4874.000	Peak	29.60	12.61	42.21	74.00	-31.79
7215.000	Average	18.97	19.86	38.82	54.00	-15.18
7215.000	Peak	29.93	19.86	49.79	74.00	-24.21
7311.000	Average	26.71	20.68	47.39	54.00	-6.61
7311.000	Peak	32.00	20.68	52.68	74.00	-21.32

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Report Number :TERF2211002517E2

Test Site :SAC C

Operation Mode :802.11b+Zigbee

Test Date :2023-02-14

Test Frequency :2437+2405 MHz

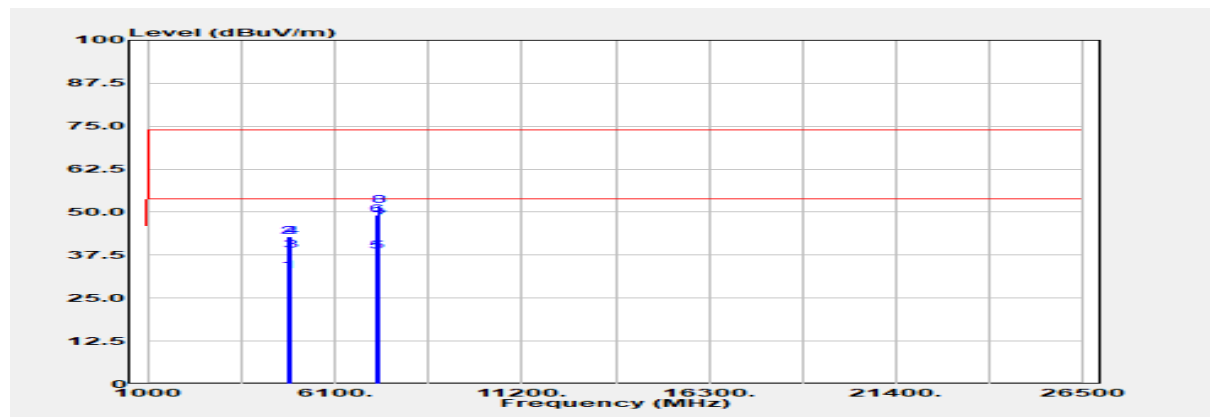
Temp./Humi. :22.6/51

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



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
4810.000	Average	20.40	12.41	32.81	54.00	-21.19
4810.000	Peak	30.40	12.41	42.81	74.00	-31.19
4874.000	Average	26.24	12.61	38.85	54.00	-15.15
4874.000	Peak	30.33	12.61	42.94	74.00	-31.06
7215.000	Average	18.83	19.86	38.68	54.00	-15.32
7215.000	Peak	29.16	19.86	49.01	74.00	-24.99
7311.000	Average	26.73	20.68	47.41	54.00	-6.59
7311.000	Peak	31.20	20.68	51.88	74.00	-22.12

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Report Number :TERF2211002517E2

Test Site :SAC C

Operation Mode :802.11ax20+Zigbee

Test Date :2023-02-14

Test Frequency :2437+2405 MHz

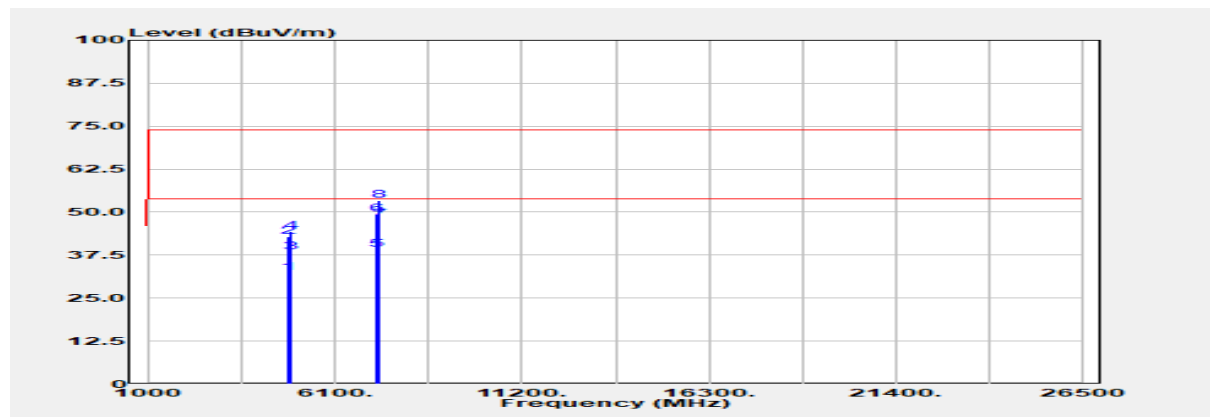
Temp./Humi. :22.6/51

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



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
4810.000	Average	19.81	12.41	32.22	54.00	-21.78
4810.000	Peak	30.43	12.41	42.84	74.00	-31.16
4874.000	Average	25.64	12.61	38.25	54.00	-15.75
4874.000	Peak	31.68	12.61	44.29	74.00	-29.71
7215.000	Average	19.13	19.86	38.99	54.00	-15.01
7215.000	Peak	29.52	19.86	49.38	74.00	-24.62
7311.000	Average	27.12	20.68	47.80	54.00	-6.20
7311.000	Peak	32.62	20.68	53.31	74.00	-20.69

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Report Number :TERF2211002517E2

Test Site :SAC C

Operation Mode :802.11ax20+Zigbee

Test Date :2023-02-14

Test Frequency :2437+2405 MHz

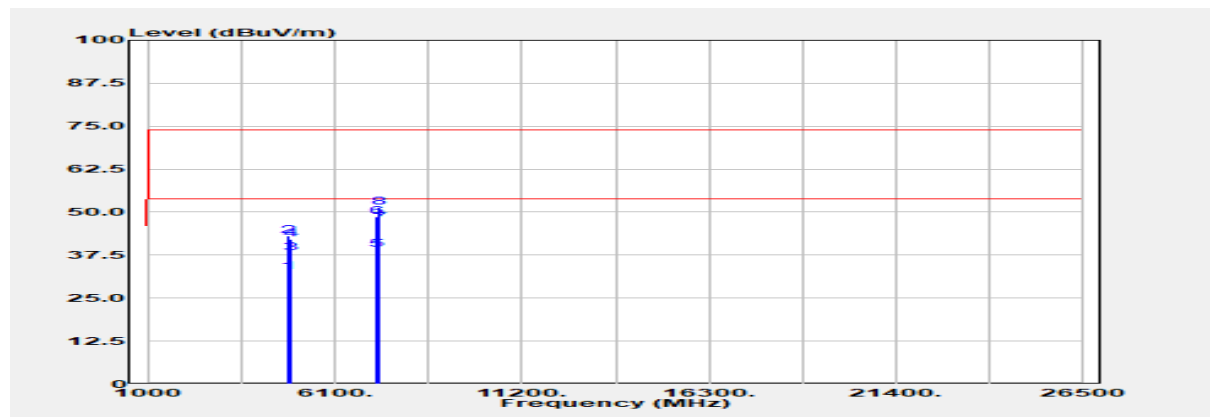
Temp./Humi. :22.6/51

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



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
4810.000	Average	20.05	12.41	32.46	54.00	-21.54
4810.000	Peak	30.70	12.41	43.12	74.00	-30.88
4874.000	Average	25.48	12.61	38.09	54.00	-15.91
4874.000	Peak	29.45	12.61	42.06	74.00	-31.94
7215.000	Average	19.17	19.86	39.03	54.00	-14.97
7215.000	Peak	28.84	19.86	48.69	74.00	-25.31
7311.000	Average	26.17	20.68	46.85	54.00	-7.15
7311.000	Peak	30.67	20.68	51.36	74.00	-22.64

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Report Number :TERF2211002517E2

Test Site :SAC C

Operation Mode :802.11a+Zigbee

Test Date :2023-02-14

Test Frequency :5580+2405 MHz

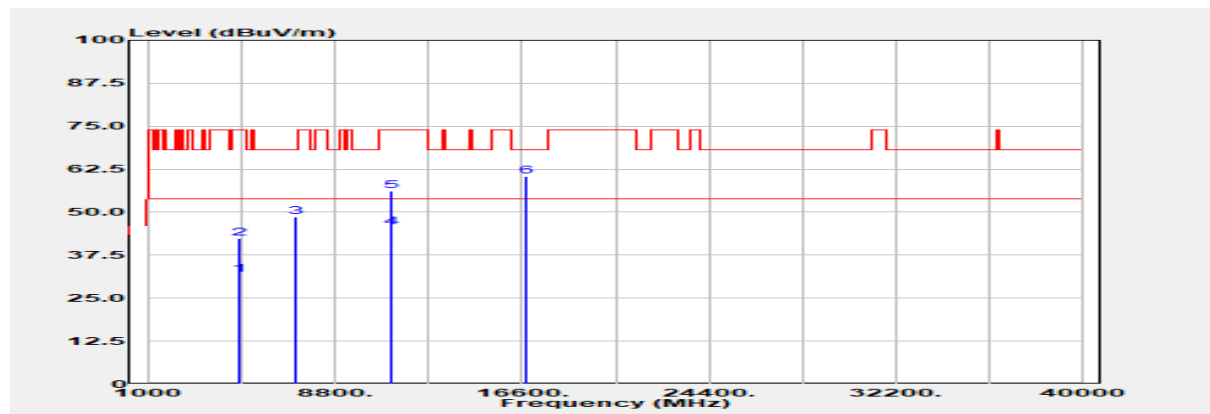
Temp./Humi. :22.6/51

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4810.000	Average	19.51	12.41	31.92	54.00	-22.08
4810.000	Peak	29.83	12.41	42.24	74.00	-31.76
7215.000	Peak	28.69	19.86	48.54	68.20	-19.66
11160.000	Average	18.11	27.54	45.65	54.00	-8.35
11160.000	Peak	28.70	27.54	56.24	74.00	-17.76
16740.000	Peak	28.21	32.08	60.30	68.20	-7.90

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Report Number :TERF2211002517E2

Test Site :SAC C

Operation Mode :802.11a+Zigbee

Test Date :2023-02-14

Test Frequency :5580+2405 MHz

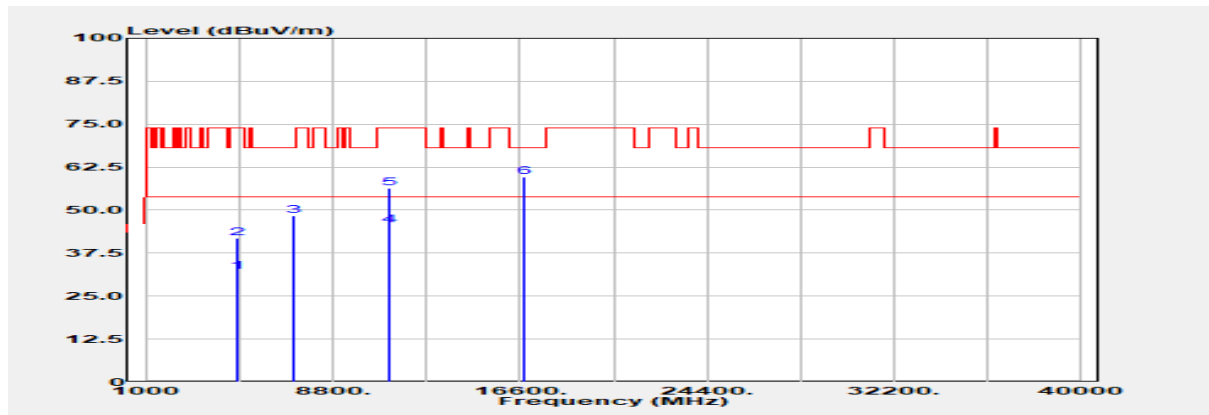
Temp./Humi. :22.6/51

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4810.000	Average	19.57	12.41	31.98	54.00	-22.02
4810.000	Peak	29.44	12.41	41.85	74.00	-32.15
7215.000	Peak	28.51	19.86	48.37	68.20	-19.83
11160.000	Average	18.18	27.54	45.72	54.00	-8.28
11160.000	Peak	28.84	27.54	56.38	74.00	-17.62
16740.000	Peak	27.56	32.08	59.65	68.20	-8.55

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Report Number :TERF2211002517E2

Test Site :SAC C

Operation Mode :802.11ax20+Zigbee

Test Date :2023-02-14

Test Frequency :5220+2405 MHz

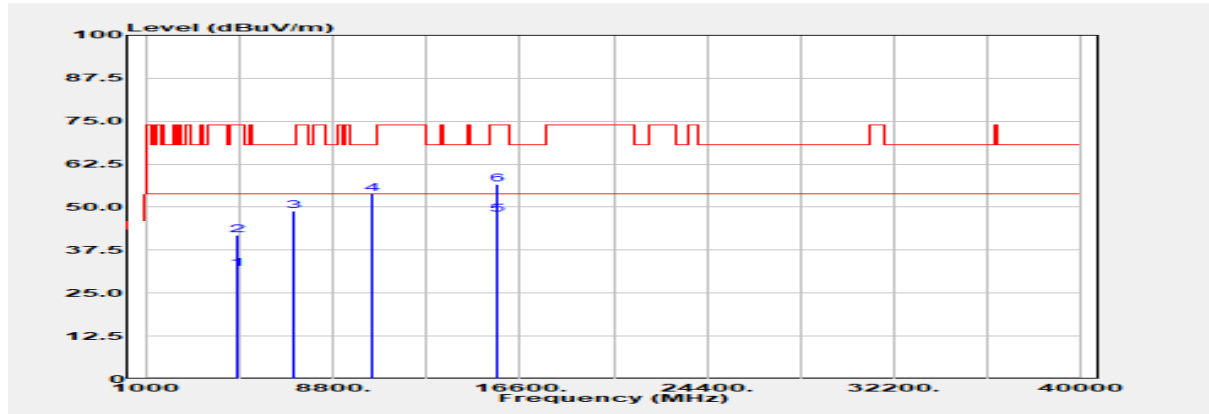
Temp./Humi. :22.6/51

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



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
4810.000	Average	19.62	12.41	32.03	54.00	-21.97
4810.000	Peak	29.41	12.41	41.82	74.00	-32.18
7215.000	Peak	28.98	19.86	48.84	68.20	-19.36
10440.000	Peak	27.54	26.27	53.81	68.20	-14.39
15660.000	Average	18.32	29.57	47.89	54.00	-6.11
15660.000	Peak	27.06	29.57	56.63	74.00	-17.37

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SGS Taiwan Ltd.

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Member of SGS Group

Report Number :TERF2211002517E2

Test Site :SAC C

Operation Mode :802.11ax20+Zigbee

Test Date :2023-02-14

Test Frequency :5220+2405 MHz

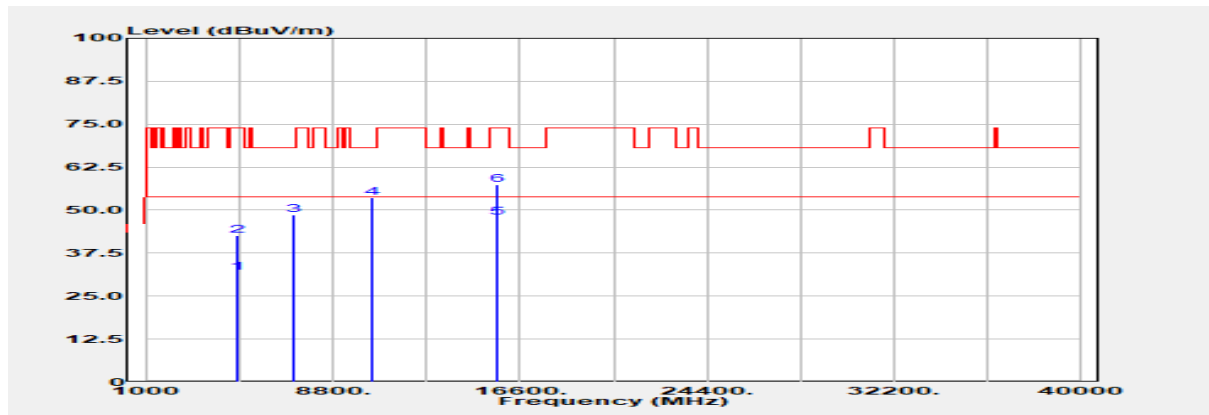
Temp./Humi. :22.6/51

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4810.000	Average	19.52	12.41	31.93	54.00	-22.07
4810.000	Peak	30.23	12.41	42.64	74.00	-31.36
7215.000	Peak	28.76	19.86	48.61	68.20	-19.59
10440.000	Peak	27.34	26.27	53.61	68.20	-14.59
15660.000	Average	18.39	29.57	47.96	54.00	-6.04
15660.000	Peak	27.86	29.57	57.42	74.00	-16.58

~ End of Report ~

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