

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



Applicant: MediaTek Inc.
No. 1, Dusing 1st Rd., Hsinchu Science Park Hsinchu City
30078, Taiwan

Product Name: 2TX 11ax (WiFi6E) BW160 + BT/BLE Combo Card

Brand Name: MediaTek

Model No.: MT7922A22M

Model Difference: N/A

Report Number: TERF2204000201E2

FCC ID RAS-MT7922A22M

IC: 7542A-MT7922A22M

Date of EUT Received: Apr. 12, 2022

Date of Test: Apr. 28, 2022~May 20, 2022

Issue Date: May 30, 2022

Approved By _____

Vito Pei

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.

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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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2204000201E2	00	Original.	May 30, 2022	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 and are assessed as electrically identical in RF characteristics, therefore, no further assessment required for the variant(s).

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	Notebook Computer
Brand Name:	<i>acer</i>
Model No. of FCC Host:	N22Q14
Model No. of IC Host:	TMP414-41,TMP414RN-41,TMP414P-41,TMP414A-41,TMP414RNA-41
Model Difference:	For marketing purpose
Power Supply:	15.4Vdc from Rechargeable Li-ion Battery or 19Vdc from AC/DC Adapter

1.2 RF Specification

Radio Technology:	BLE
Frequency Range:	2402 – 2480MHz
Channel number:	40 channels
Modulation type:	GFSK

1.3 Antenna Designation

Antenna Type	Supplier	NB / TB mode	Main / Aux	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)
PIFA	WNC	NB	Aux	81EABS15.G80	2402~2480	1.62
		TB				0.75

Note:

1. Pre-scanned was done on the above antennas, measurements were demonstrated by using the antenna with the highest gain as the worst case scenarios.
2. Antenna information is provided by the applicant.

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1.4 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

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	TW0028		
	Conduction C			
	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 Emissions

The EUT is placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 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.

2.3.3 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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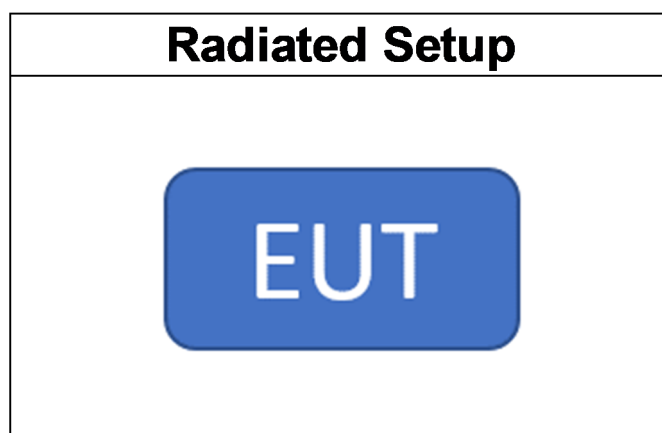
2.4 Measurement Results Explanation Example

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



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3 SUMMARY OF TEST RESULTS

FCC Rules	ISED Rules	Description Of Test	Result
§15.247(d) §15.205 §15.209	RSS-247 §5.5 RSS-Gen §8.9 RSS-Gen §8.10	Radiated Spurious Emission	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operating Frequencies

ITEM	FREQUENCY	ITEM	FREQUENCY	ITEM	FREQUENCY
1	2402 MHz	15	2430 MHz	29	2458 MHz
2	2404 MHz	16	2432 MHz	30	2460 MHz
3	2406 MHz	17	2434 MHz	31	2462 MHz
4	2408 MHz	18	2436 MHz	32	2464 MHz
5	2410 MHz	19	2438 MHz	33	2466 MHz
6	2412 MHz	20	2440 MHz	34	2468 MHz
7	2414 MHz	21	2442 MHz	35	2470 MHz
8	2416MHz	22	2444 MHz	36	2472 MHz
9	2418 MHz	23	2446 MHz	37	2474 MHz
10	2420 MHz	24	2448 MHz	38	2476 MHz
11	2422 MHz	25	2450 MHz	39	2478 MHz
12	2424 MHz	26	2452 MHz	40	2480 MHz
13	2426 MHz	27	2454 MHz		
14	2428 MHz	28	2456 MHz		

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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 and receiving mode is programmed.
3. The field strength of radiation 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.
4. Investigation has been done on all the possible configurations for searching the worst case.

RADIATED EMISSION TEST (BELOW 1 GHz)				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
Bluetooth LE	0 to 39	19	GFSK	1
Bluetooth LE	0 to 39	19	GFSK	2
RADIATED EMISSION TEST (ABOVE 1 GHz)				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
Bluetooth LE	0 to 39	0,19,39	GFSK	1
Bluetooth LE	0 to 39	0,19,39	GFSK	2

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.34 dB
Output Power measurement	+/- 1 dB
Emission Bandwidth	+/- 1.53 Hz
Undesignable radiated emission measurement	+/- 1.68 dB
Peak Power Density	+/- 1.62 dB
Temperature	+/- 0.4 °C
Humidity	+/- 3.5 %
DC / AC Power Source	+/- 1 %

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 MEASUREMENT EQUIPMENT USED

6.1 Radiated Measurement

Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-300	10/19/2021	10/18/2022
Horn Antenna	SCHWARZBECK	BBHA9170	185	08/06/2021	08/05/2022
Horn Antenna	SCHWARZBECK	BBHA9120D	1187	01/06/2022	01/05/2023
Loop Antenna	ETS.LINDGREN	6502	143303	05/07/2021	05/06/2022
EMI Test Receiver	R&S	ESU 40	100363	04/28/2021	04/27/2022
Pre-Amplifier	EMC Instruments	EMC330	980096	11/18/2021	11/17/2022
Pre-Amplifier	EMC Instruments	EMC0011830	980199	11/18/2021	11/17/2022
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2021	10/26/2022
Attenuator	Marvelous	WATT-218FS-10	RF20	11/18/2021	11/17/2022
Band Rejection Filter	Micro-Tronics	BRM50701-01	RF201	11/18/2021	11/17/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	11/18/2021	11/17/2022
Coaxial Cable	Huber Suhner	RG 214/U	W22.03	11/18/2021	11/17/2022
Test Software	audix	e3	20923 sgs Ver.9	N.C.R	N.C.R

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

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7 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

7.1 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.

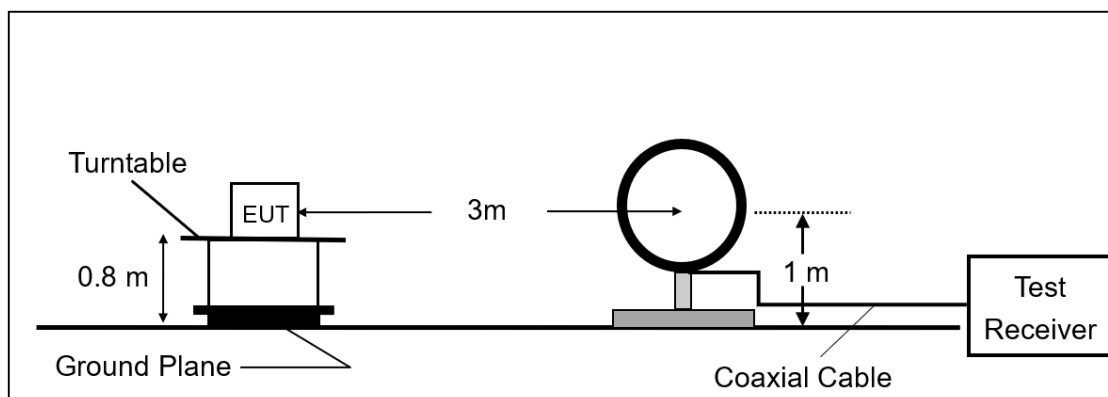
And according to §15.33(a) (1) & RSS-Gen §6.13.2.a for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

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: The lower limit shall apply at the transition frequencies.

7.2 Test Setup

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

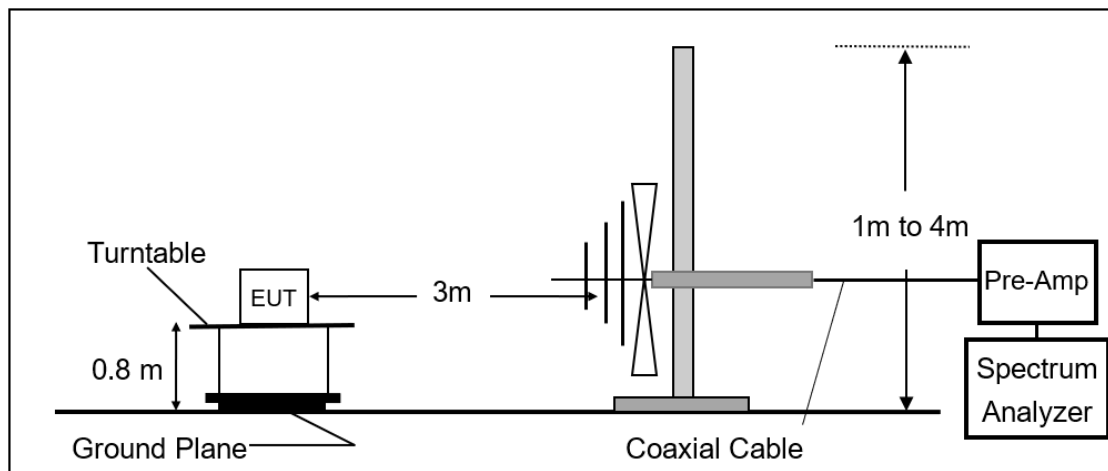


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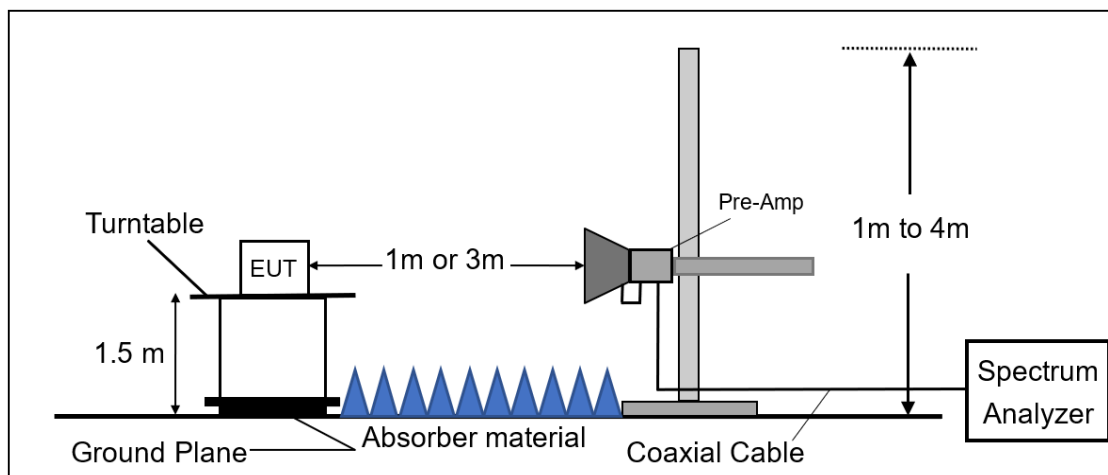
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(B) Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



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



7.3 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.

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7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Maximum Emission Measurements at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW $\geq 1/T$ (Duty cycle < 98%) for Average Emission Measurements at frequency above 1 GHz.
9. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.
10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
12. Repeat above procedures until all default test channel measured were complete.

7.4 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)

7.5 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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7.6 Measurement Result:

7.6.1 Radiated Spurious Emission

NB

Report Number :TERF2204000201E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2022-05-03

Test Frequency :2440 MHz

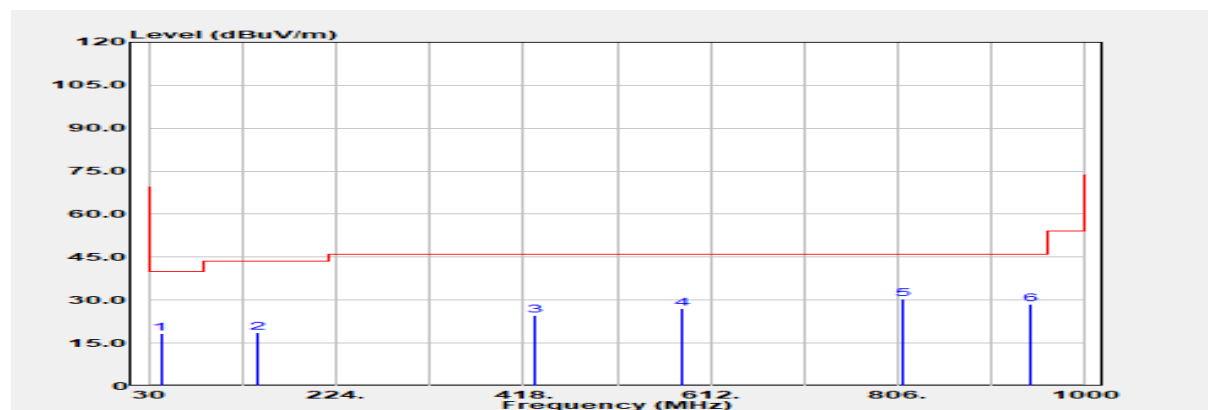
Temp./Humi. :23.3/58

Test Mode :TX CH MID

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Temo Chen



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
42.436	Peak	34.55	-16.29	18.26	40.00	-21.74
143.478	Peak	35.09	-16.42	18.67	43.50	-24.83
429.503	Peak	36.23	-11.65	24.58	46.00	-21.42
581.843	Peak	35.05	-7.91	27.14	46.00	-18.86
811.907	Peak	34.81	-4.36	30.45	46.00	-15.55
944.039	Peak	30.64	-1.93	28.71	46.00	-17.29

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Report Number :TERF2204000201E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2022-05-03

Test Frequency :2440 MHz

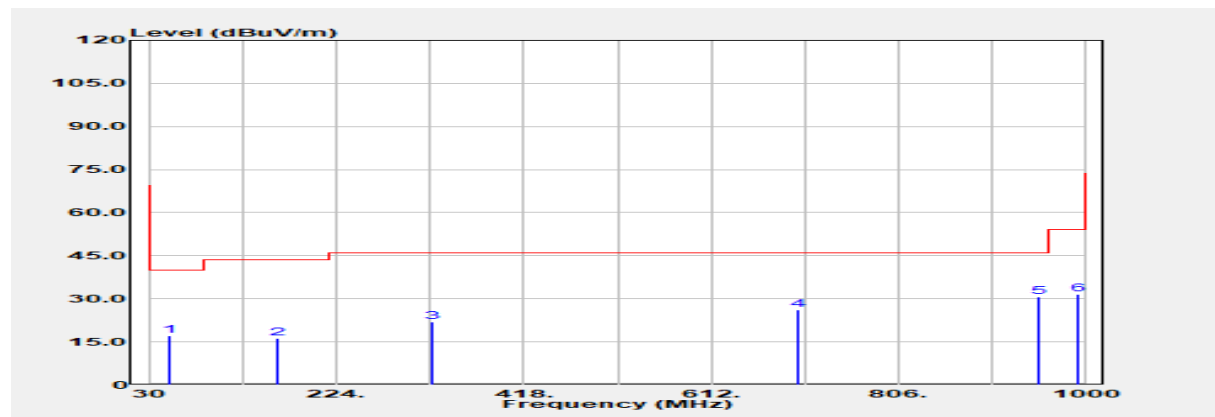
Temp./Humi. :23.3/58

Test Mode :TX CH MID

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
51.763	Peak	32.94	-15.77	17.17	40.00	-22.83
162.131	Peak	32.35	-16.11	16.24	43.50	-27.26
322.244	Peak	36.30	-14.46	21.84	46.00	-24.16
701.539	Peak	32.86	-6.72	26.14	46.00	-19.86
950.256	Peak	32.53	-1.71	30.82	46.00	-15.18
990.673	Peak	32.97	-1.41	31.56	54.00	-22.44

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Report Number :TERF2204000201E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2022-05-03

Test Frequency :2440 MHz

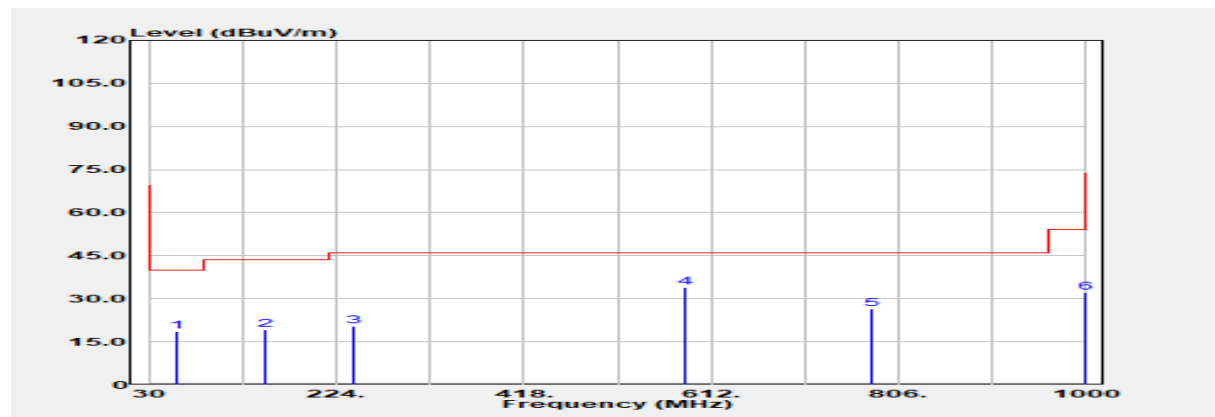
Temp./Humi. :23.3/58

Test Mode :TX CH MID

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
57.981	Peak	34.95	-16.32	18.62	40.00	-21.38
149.696	Peak	35.13	-15.87	19.26	43.50	-24.24
241.410	Peak	37.70	-17.37	20.33	46.00	-25.67
584.952	Peak	42.11	-8.12	33.98	46.00	-12.02
777.708	Peak	30.68	-4.27	26.42	46.00	-19.58
1000.000	Peak	20.46	11.60	32.07	54.00	-21.93

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Report Number :TERF2204000201E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2022-05-03

Test Frequency :2440 MHz

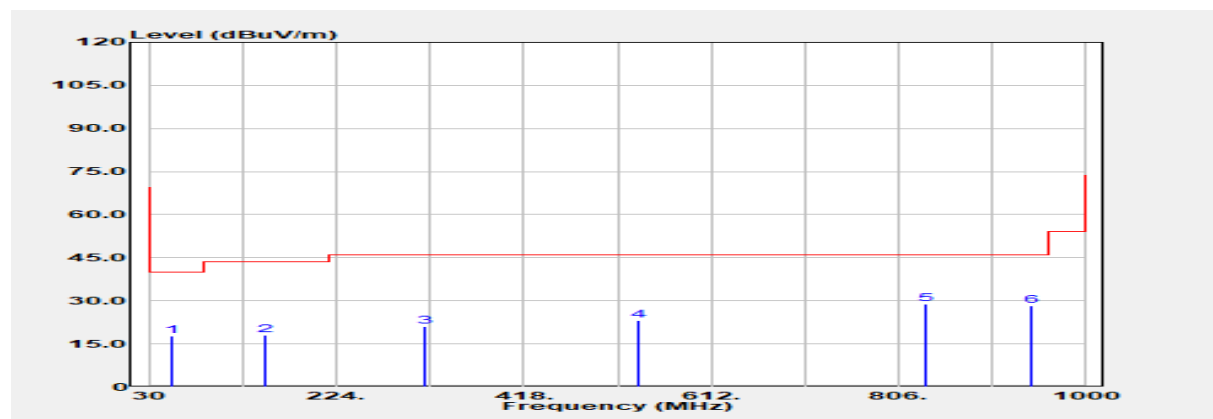
Temp./Humi. :23.3/58

Test Mode :TX CH MID

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
53.317	Peak	33.57	-15.81	17.76	40.00	-22.24
149.696	Peak	34.05	-15.87	18.18	43.50	-25.32
314.471	Peak	35.83	-14.89	20.94	46.00	-25.06
536.763	Peak	32.00	-8.95	23.05	46.00	-22.95
833.670	Peak	32.81	-3.84	28.97	46.00	-17.03
944.039	Peak	30.17	-1.93	28.24	46.00	-17.76

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Report Number :TERF2204000201E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2022-05-03

Test Frequency :2402 MHz

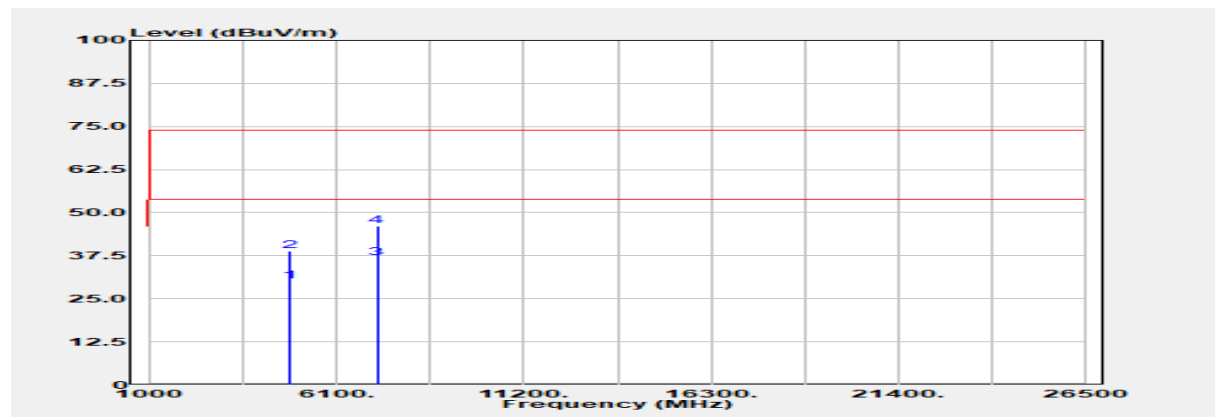
Temp./Humi. :23.3/58

Test Mode :TX CH LOW

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Temo Chen



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	20.67	9.50	30.17	54.00	-23.83
4804.000	Peak	29.36	9.50	38.86	74.00	-35.14
7206.000	Average	19.43	17.49	36.92	54.00	-17.08
7206.000	Peak	28.71	17.49	46.20	74.00	-27.80

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Report Number :TERF2204000201E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2022-05-03

Test Frequency :2402 MHz

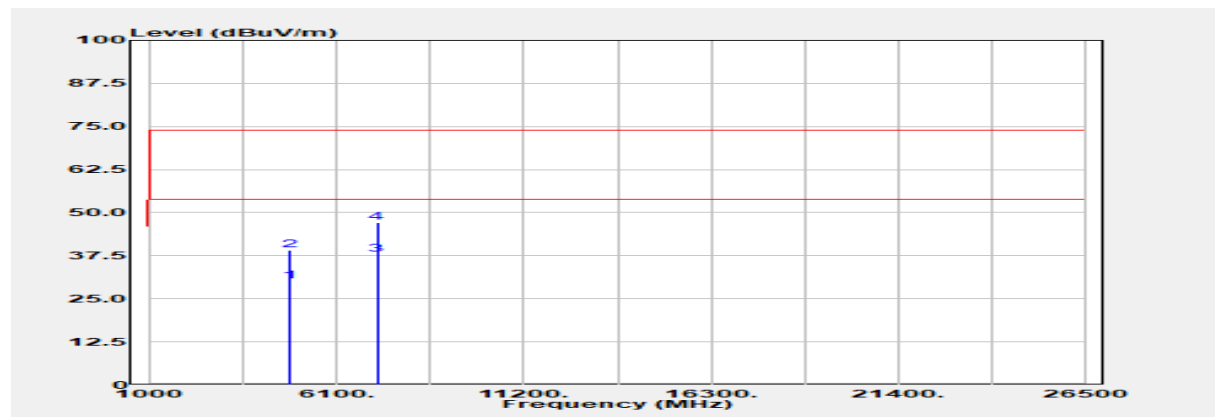
Temp./Humi. :23.3/58

Test Mode :TX CH LOW

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Temo Chen



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	20.59	9.50	30.09	54.00	-23.91
4804.000	Peak	29.64	9.50	39.14	74.00	-34.86
7206.000	Average	20.43	17.49	37.92	54.00	-16.08
7206.000	Peak	29.73	17.49	47.22	74.00	-26.78

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Report Number :TERF2204000201E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2022-05-03

Test Frequency :2440 MHz

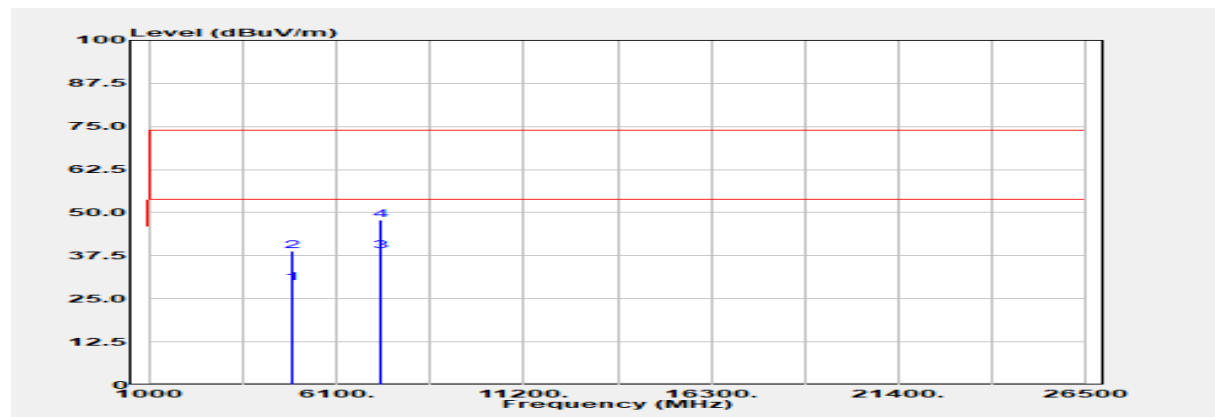
Temp./Humi. :23.3/58

Test Mode :TX CH MID

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Temo Chen



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
4880.000	Average	20.36	9.29	29.65	54.00	-24.35
4880.000	Peak	29.49	9.29	38.78	74.00	-35.22
7320.000	Average	20.70	18.08	38.78	54.00	-15.22
7320.000	Peak	29.81	18.08	47.88	74.00	-26.12

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Report Number :TERF2204000201E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2022-05-03

Test Frequency :2440 MHz

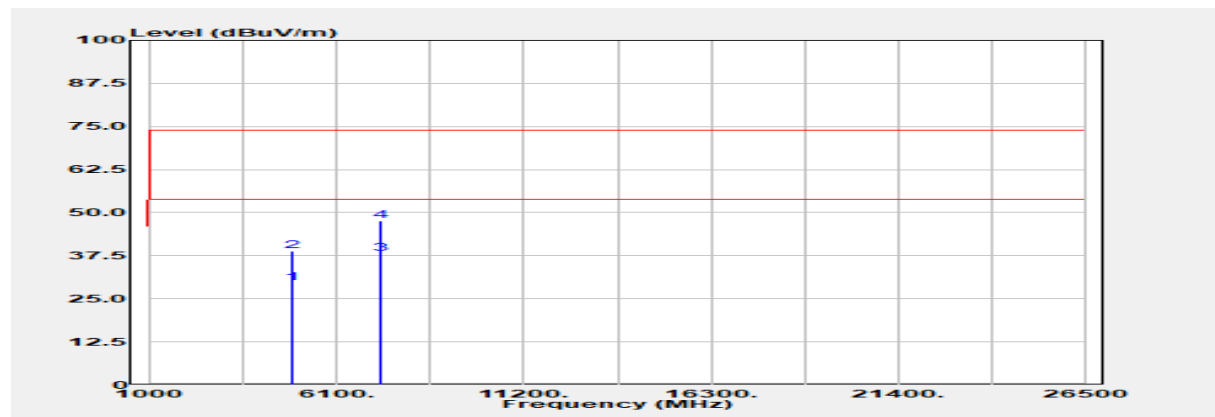
Temp./Humi. :23.3/58

Test Mode :TX CH MID

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4880.000	Average	20.28	9.29	29.57	54.00	-24.43
4880.000	Peak	29.49	9.29	38.78	74.00	-35.22
7320.000	Average	20.13	18.08	38.21	54.00	-15.79
7320.000	Peak	29.61	18.08	47.69	74.00	-26.31

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Report Number :TERF2204000201E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2022-05-03

Test Frequency :2480 MHz

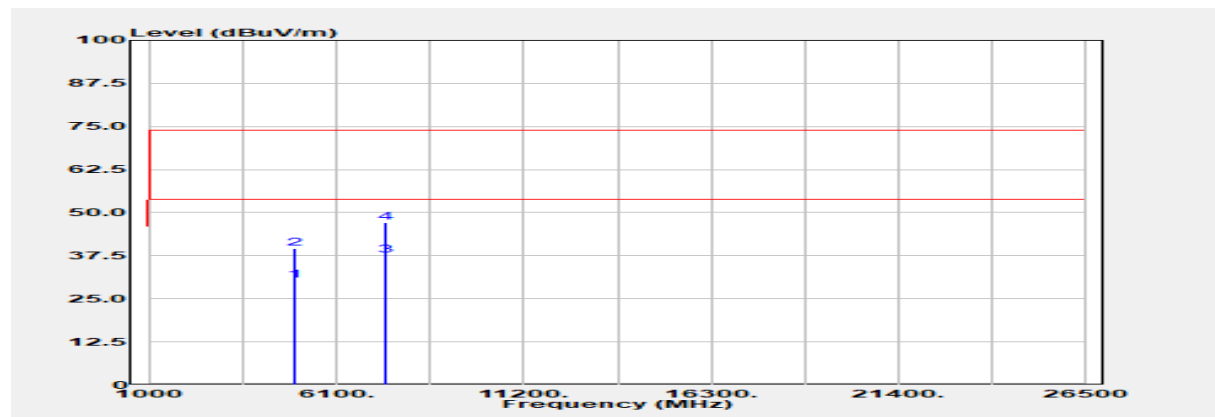
Temp./Humi. :23.3/58

Test Mode :TX CH HIGH

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.000	Average	20.22	10.03	30.25	54.00	-23.75
4960.000	Peak	29.54	10.03	39.57	74.00	-34.43
7440.000	Average	19.43	18.23	37.66	54.00	-16.34
7440.000	Peak	28.87	18.23	47.10	74.00	-26.90

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Report Number :TERF2204000201E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2022-05-03

Test Frequency :2480 MHz

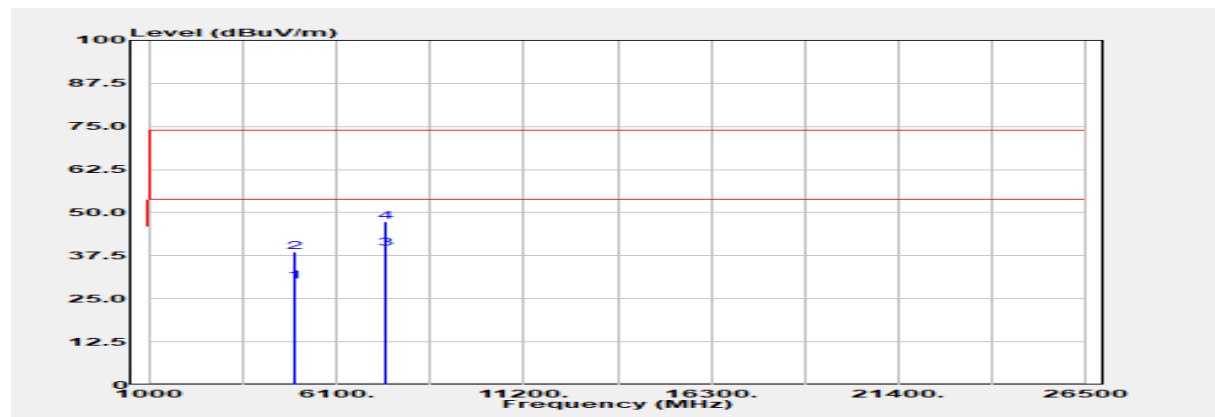
Temp./Humi. :23.3/58

Test Mode :TX CH HIGH

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Temo Chen



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
4960.000	Average	20.06	10.03	30.09	54.00	-23.91
4960.000	Peak	28.58	10.03	38.61	74.00	-35.39
7440.000	Average	21.33	18.23	39.56	54.00	-14.44
7440.000	Peak	29.20	18.23	47.43	74.00	-26.57

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Report Number :TERF2204000201E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2022-05-03

Test Frequency :2402 MHz

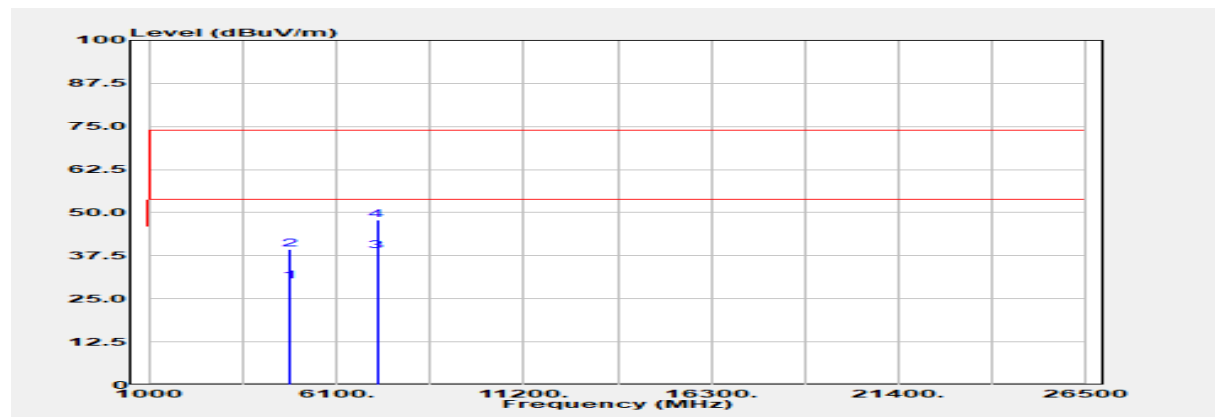
Temp./Humi. :23.3/58

Test Mode :TX CH LOW

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Temo Chen



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	20.45	9.50	29.95	54.00	-24.05
4804.000	Peak	29.81	9.50	39.31	74.00	-34.69
7206.000	Average	21.33	17.49	38.82	54.00	-15.18
7206.000	Peak	30.40	17.49	47.90	74.00	-26.10

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Report Number :TERF2204000201E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2022-05-03

Test Frequency :2402 MHz

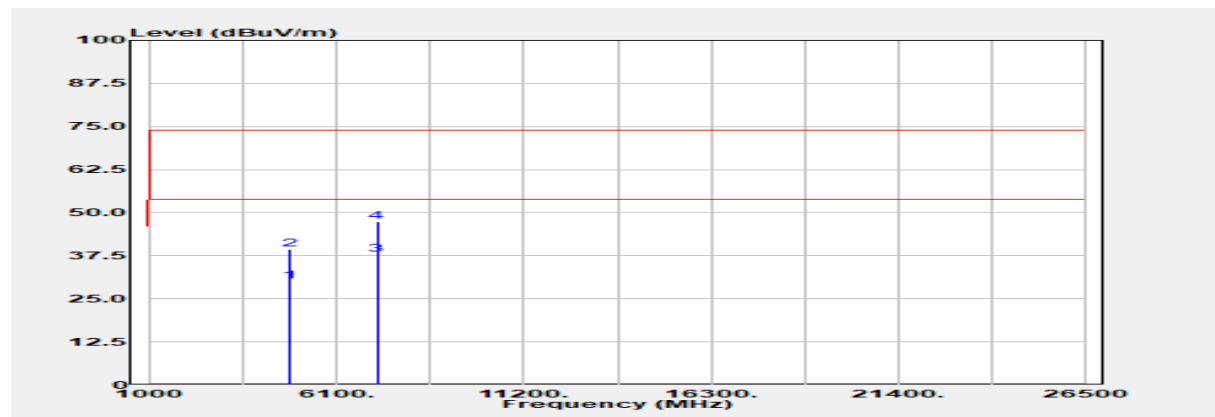
Temp./Humi. :23.3/58

Test Mode :TX CH LOW

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Temo Chen



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	20.56	9.50	30.06	54.00	-23.94
4804.000	Peak	29.77	9.50	39.27	74.00	-34.73
7206.000	Average	20.43	17.49	37.92	54.00	-16.08
7206.000	Peak	29.84	17.49	47.33	74.00	-26.67

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Report Number :TERF2204000201E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2022-05-03

Test Frequency :2440 MHz

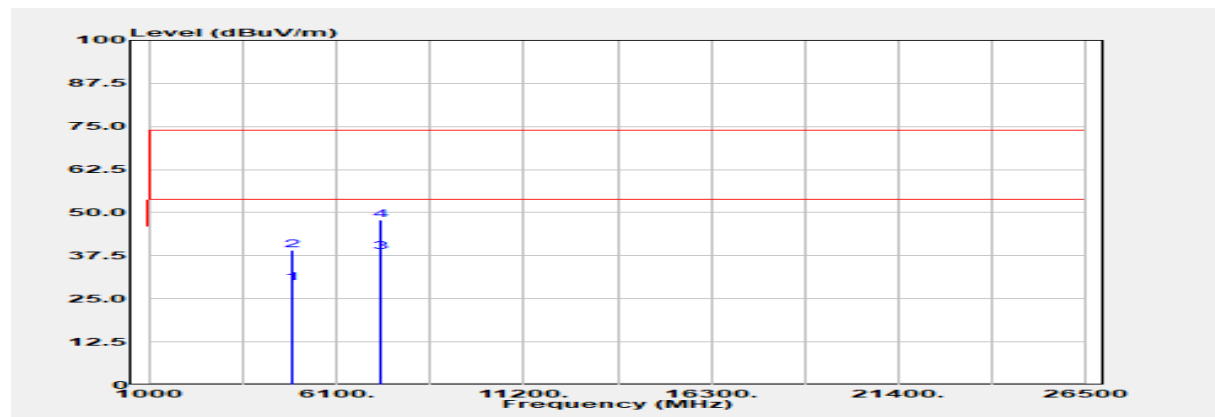
Temp./Humi. :23.3/58

Test Mode :TX CH MID

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Temo Chen



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
4880.000	Average	20.40	9.29	29.69	54.00	-24.31
4880.000	Peak	29.70	9.29	38.99	74.00	-35.01
7320.000	Average	20.43	18.08	38.51	54.00	-15.49
7320.000	Peak	29.84	18.08	47.91	74.00	-26.09

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Report Number :TERF2204000201E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2022-05-03

Test Frequency :2440 MHz

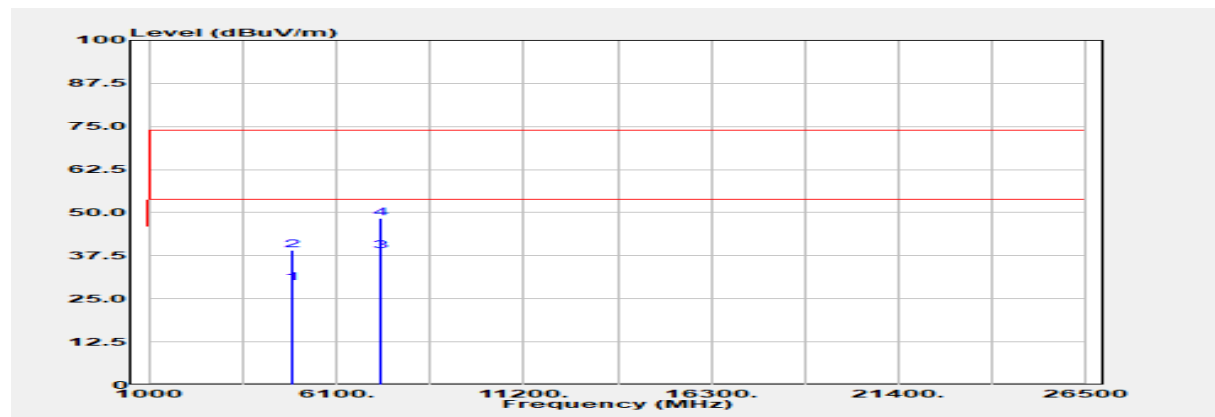
Temp./Humi. :23.3/58

Test Mode :TX CH MID

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Temo Chen



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
4880.000	Average	20.35	9.29	29.64	54.00	-24.36
4880.000	Peak	29.87	9.29	39.16	74.00	-34.84
7320.000	Average	20.66	18.08	38.74	54.00	-15.26
7320.000	Peak	30.30	18.08	48.38	74.00	-25.62

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Report Number :TERF2204000201E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2022-05-03

Test Frequency :2480 MHz

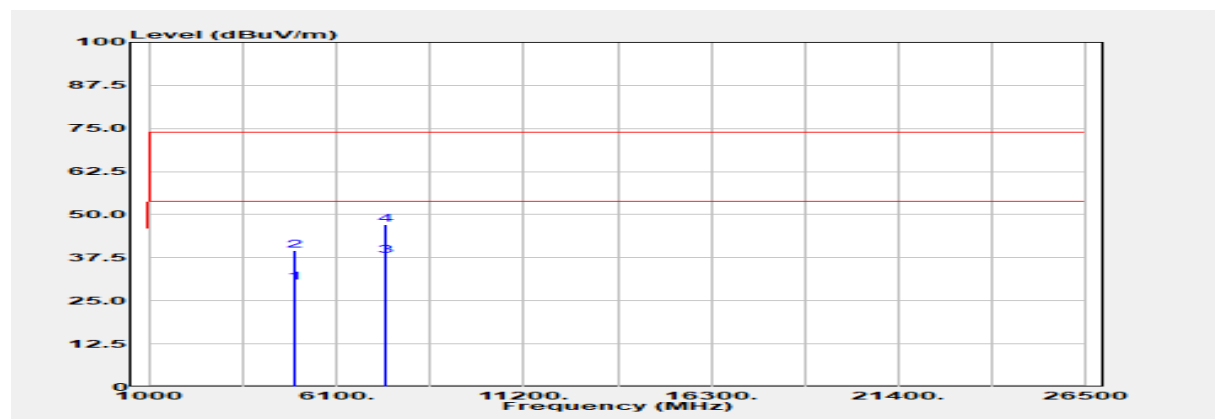
Temp./Humi. :23.3/58

Test Mode :TX CH HIGH

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Temo Chen



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
4960.000	Average	20.22	10.03	30.25	54.00	-23.75
4960.000	Peak	29.57	10.03	39.60	74.00	-34.40
7440.000	Average	19.76	18.23	37.99	54.00	-16.01
7440.000	Peak	28.95	18.23	47.18	74.00	-26.82

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Report Number :TERF2204000201E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2022-05-03

Test Frequency :2480 MHz

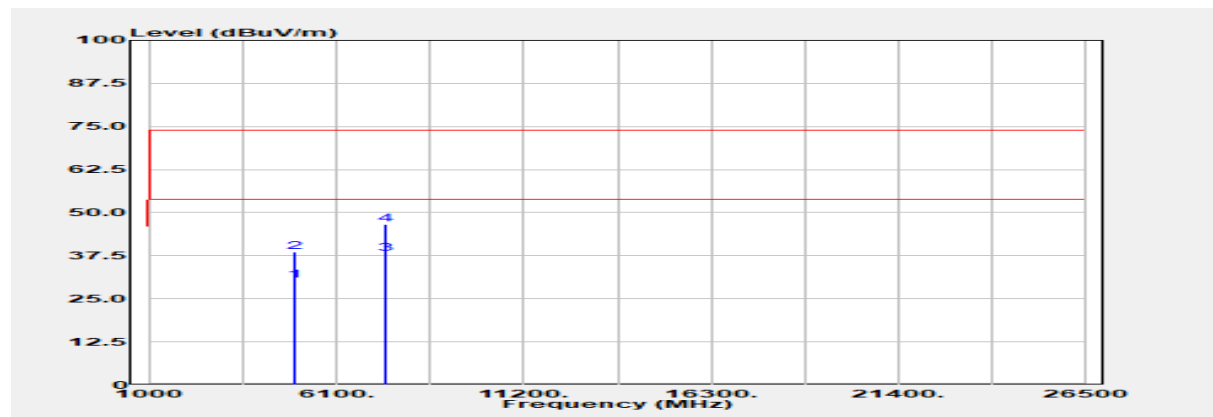
Temp./Humi. :23.3/58

Test Mode :TX CH HIGH

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Temo Chen



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
4960.000	Average	20.18	10.03	30.21	54.00	-23.79
4960.000	Peak	28.59	10.03	38.63	74.00	-35.37
7440.000	Average	19.96	18.23	38.19	54.00	-15.81
7440.000	Peak	28.41	18.23	46.63	74.00	-27.37

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TB

Report Number :TERF2204000201E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2022-04-21

Test Frequency :2440 MHz

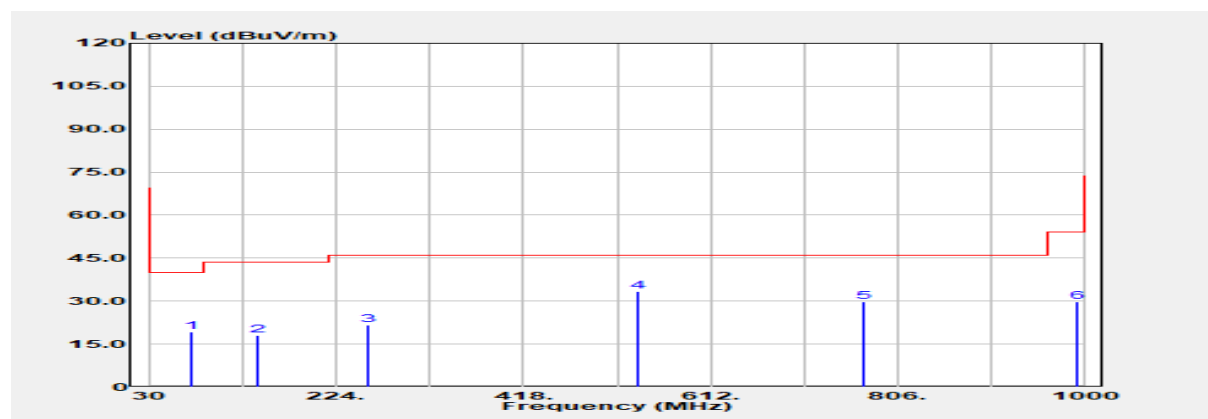
Temp./Humi. :21.8/68

Test Mode :TX CH MID

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Temo Chen



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
75.080	Peak	38.62	-19.41	19.21	40.00	-20.79
141.923	Peak	34.34	-16.42	17.92	43.50	-25.58
256.955	Peak	38.57	-16.82	21.75	46.00	-24.25
536.763	Peak	42.20	-8.95	33.25	46.00	-12.75
771.490	Peak	34.54	-4.81	29.74	46.00	-16.26
990.673	Peak	31.19	-1.41	29.78	54.00	-24.22

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Report Number :TERF2204000201E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2022-04-21

Test Frequency :2440 MHz

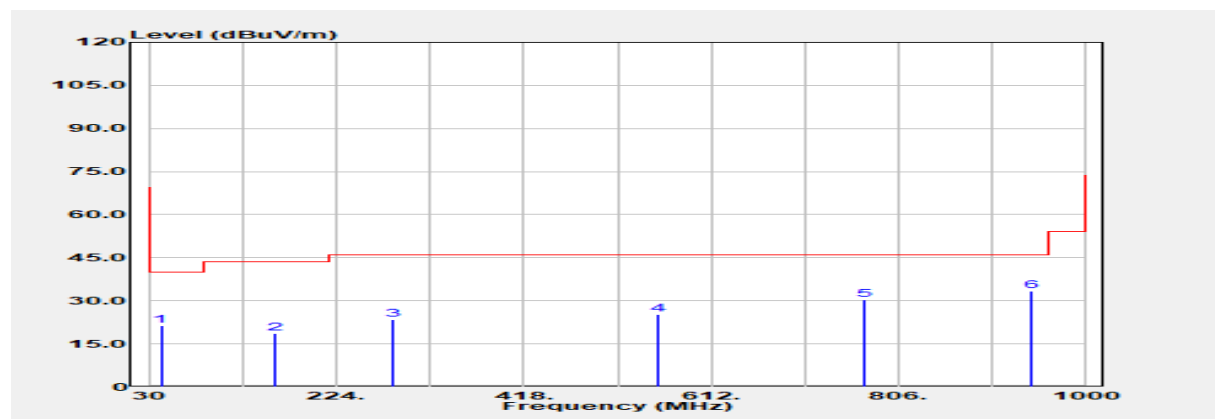
Temp./Humi. :21.8/68

Test Mode :TX CH MID

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Temo Chen



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
42.436	Peak	37.52	-16.29	21.23	40.00	-18.77
160.577	Peak	34.68	-16.03	18.66	43.50	-24.84
283.381	Peak	39.10	-15.72	23.38	46.00	-22.62
556.971	Peak	34.57	-9.31	25.26	46.00	-20.74
771.490	Peak	35.17	-4.81	30.37	46.00	-15.63
944.039	Peak	35.37	-1.93	33.44	46.00	-12.56

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Report Number :TERF2204000201E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2022-04-21

Test Frequency :2440 MHz

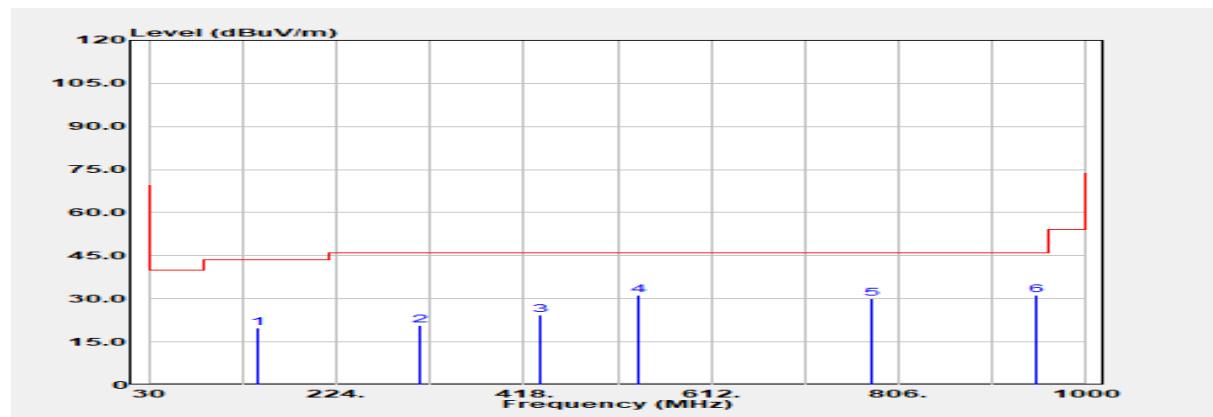
Temp./Humi. :21.8/68

Test Mode :TX CH MID

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Temo Chen



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
141.923	Peak	36.34	-16.42	19.92	43.50	-23.58
311.362	Peak	35.76	-14.93	20.84	46.00	-25.16
435.721	Peak	35.52	-11.06	24.47	46.00	-21.53
536.763	Peak	40.20	-8.95	31.25	46.00	-14.75
777.708	Peak	34.49	-4.27	30.22	46.00	-15.78
948.702	Peak	32.93	-1.78	31.16	46.00	-14.84

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Report Number :TERF2204000201E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2022-04-21

Test Frequency :2440 MHz

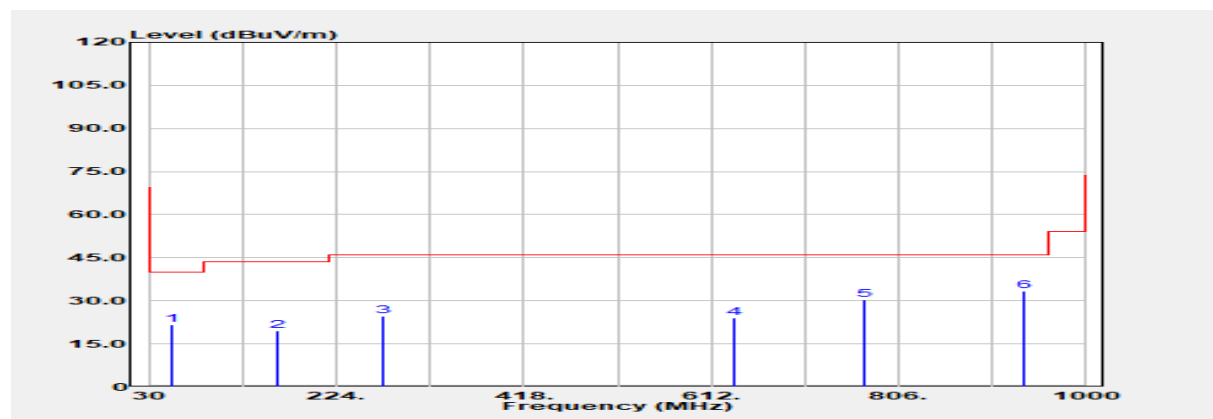
Temp./Humi. :21.8/68

Test Mode :TX CH MID

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
53.317	Peak	37.46	-15.81	21.65	40.00	-18.35
162.131	Peak	35.77	-16.11	19.67	43.50	-23.83
272.500	Peak	40.63	-16.03	24.59	46.00	-21.41
634.696	Peak	30.65	-6.73	23.92	46.00	-22.08
771.490	Peak	35.17	-4.81	30.37	46.00	-15.63
936.266	Peak	35.39	-1.89	33.50	46.00	-12.50

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Report Number :TERF2204000201E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2022-05-03

Test Frequency :2402 MHz

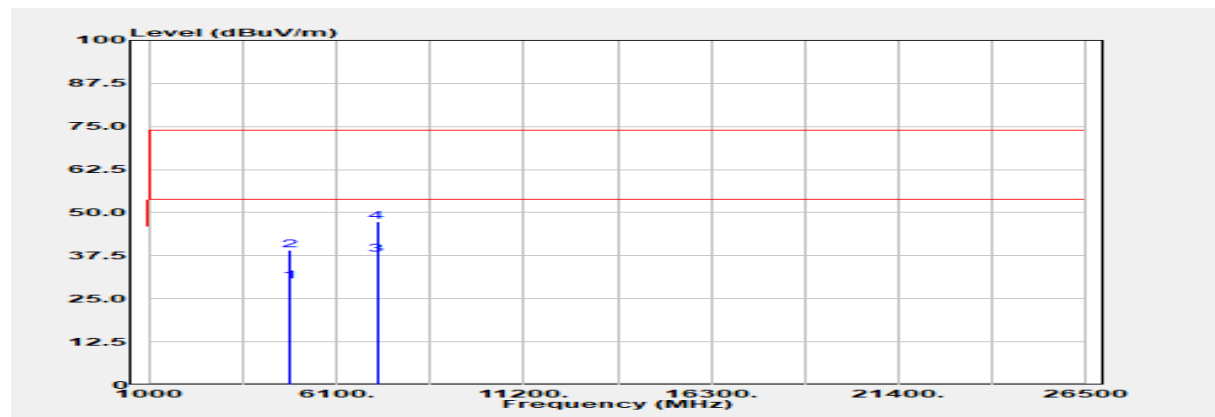
Temp./Humi. :23.3/58

Test Mode :TX CH LOW

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Temo Chen



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	20.46	9.50	29.96	54.00	-24.04
4804.000	Peak	29.61	9.50	39.11	74.00	-34.89
7206.000	Average	20.33	17.49	37.82	54.00	-16.18
7206.000	Peak	29.96	17.49	47.45	74.00	-26.55

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Report Number :TERF2204000201E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2022-05-03

Test Frequency :2402 MHz

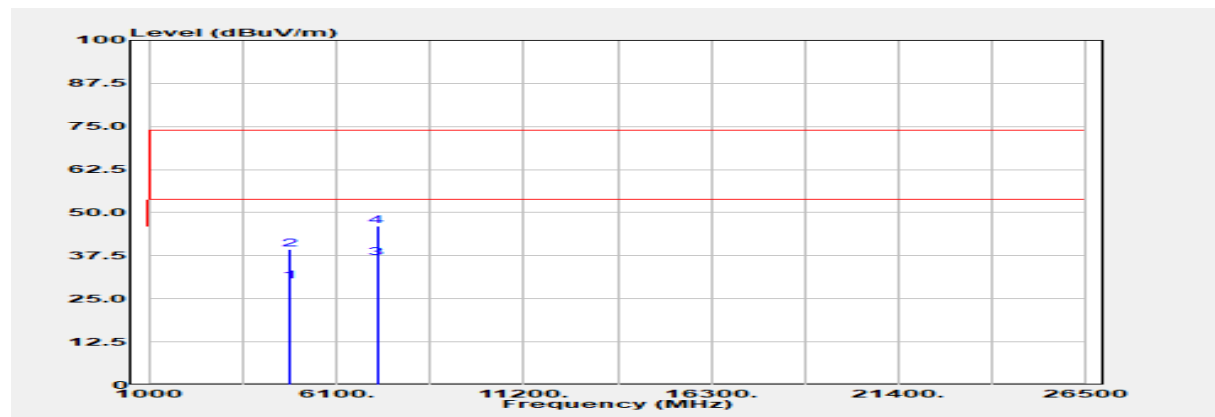
Temp./Humi. :23.3/58

Test Mode :TX CH LOW

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Temo Chen



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	20.55	9.50	30.05	54.00	-23.95
4804.000	Peak	29.94	9.50	39.44	74.00	-34.56
7206.000	Average	19.43	17.49	36.92	54.00	-17.08
7206.000	Peak	28.54	17.49	46.04	74.00	-27.96

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Report Number :TERF2204000201E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2022-05-03

Test Frequency :2440 MHz

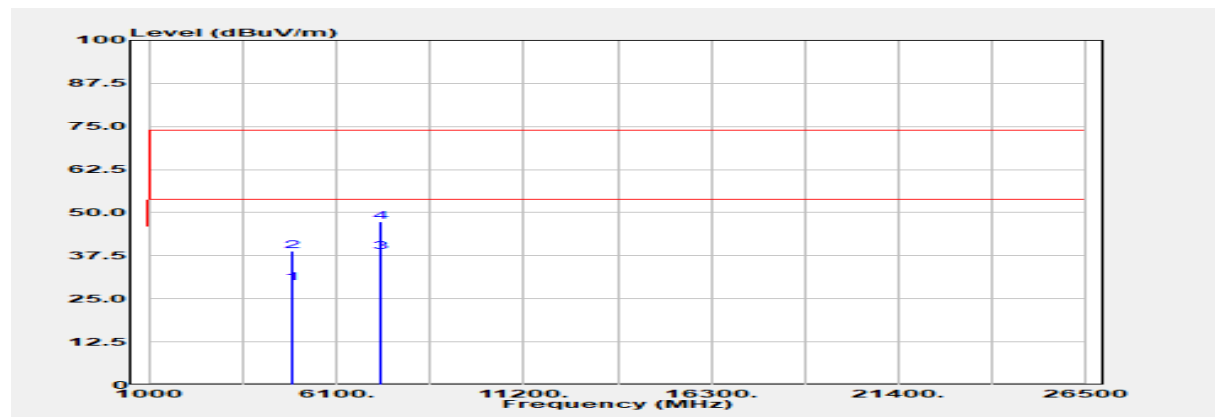
Temp./Humi. :23.3/58

Test Mode :TX CH MID

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Temo Chen



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
4880.000	Average	20.39	9.29	29.68	54.00	-24.32
4880.000	Peak	29.60	9.29	38.90	74.00	-35.10
7320.000	Average	20.43	18.08	38.51	54.00	-15.49
7320.000	Peak	29.34	18.08	47.41	74.00	-26.59

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Report Number :TERF2204000201E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2022-05-03

Test Frequency :2440 MHz

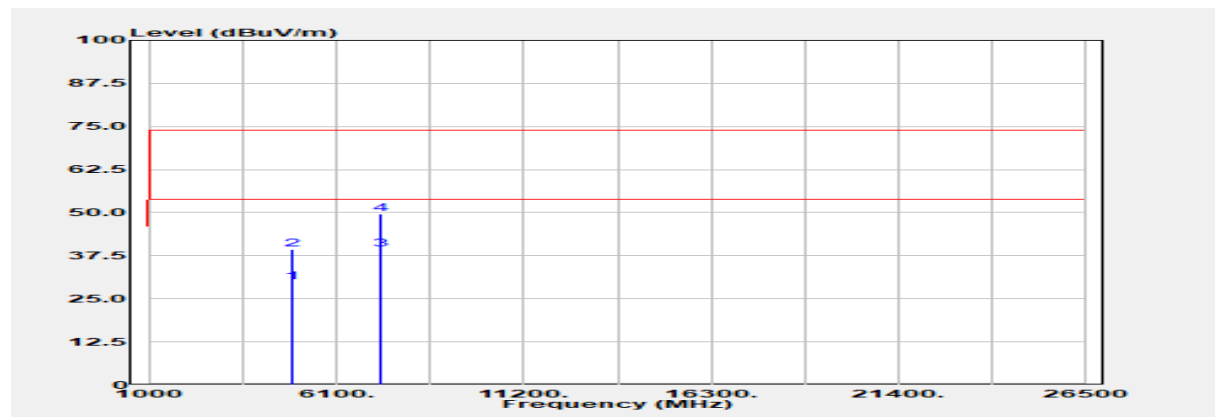
Temp./Humi. :23.3/58

Test Mode :TX CH MID

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Temo Chen



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
4880.000	Average	20.46	9.29	29.75	54.00	-24.25
4880.000	Peak	30.07	9.29	39.36	74.00	-34.64
7320.000	Average	21.33	18.08	39.41	54.00	-14.59
7320.000	Peak	31.57	18.08	49.64	74.00	-24.36

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Report Number :TERF2204000201E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2022-05-03

Test Frequency :2480 MHz

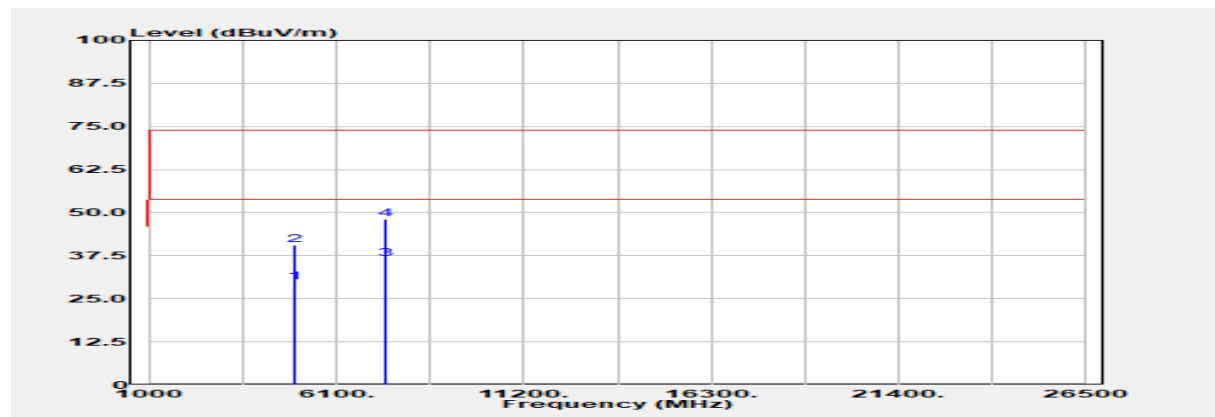
Temp./Humi. :23.3/58

Test Mode :TX CH HIGH

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Temo Chen



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
4960.000	Average	19.91	10.03	29.95	54.00	-24.05
4960.000	Peak	30.60	10.03	40.63	74.00	-33.37
7440.000	Average	18.46	18.23	36.69	54.00	-17.31
7440.000	Peak	29.98	18.23	48.21	74.00	-25.79

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Report Number :TERF2204000201E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2022-05-03

Test Frequency :2480 MHz

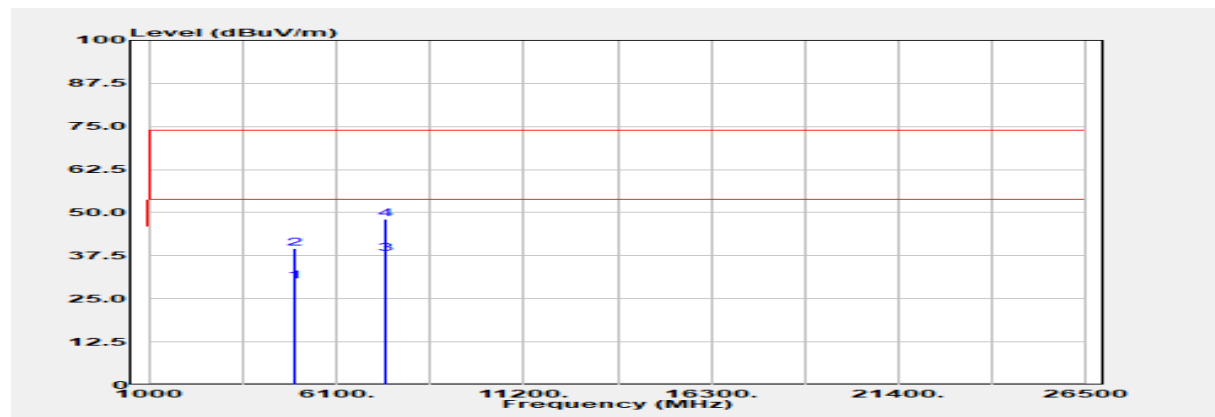
Temp./Humi. :23.3/58

Test Mode :TX CH HIGH

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Temo Chen



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
4960.000	Average	20.03	10.03	30.06	54.00	-23.94
4960.000	Peak	29.66	10.03	39.69	74.00	-34.31
7440.000	Average	19.96	18.23	38.19	54.00	-15.81
7440.000	Peak	29.84	18.23	48.06	74.00	-25.94

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Report Number :TERF2204000201E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2022-05-03

Test Frequency :2402 MHz

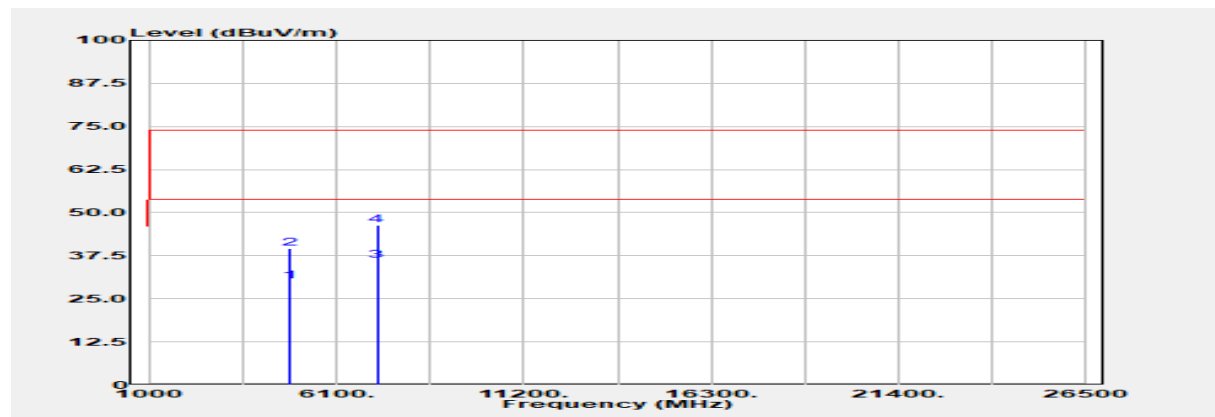
Temp./Humi. :23.3/58

Test Mode :TX CH LOW

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Temo Chen



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	20.48	9.50	29.98	54.00	-24.02
4804.000	Peak	30.12	9.50	39.62	74.00	-34.38
7206.000	Average	18.66	17.49	36.15	54.00	-17.85
7206.000	Peak	28.97	17.49	46.46	74.00	-27.54

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Report Number :TERF2204000201E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2022-05-03

Test Frequency :2402 MHz

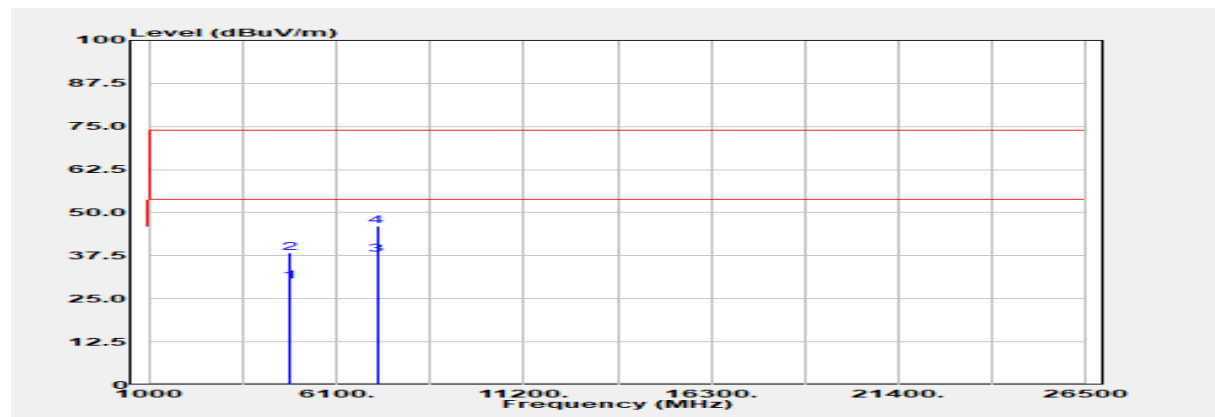
Temp./Humi. :23.3/58

Test Mode :TX CH LOW

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Temo Chen



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	20.65	9.50	30.15	54.00	-23.85
4804.000	Peak	28.74	9.50	38.24	74.00	-35.76
7206.000	Average	20.33	17.49	37.82	54.00	-16.18
7206.000	Peak	28.66	17.49	46.15	74.00	-27.85

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Report Number :TERF2204000201E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2022-05-03

Test Frequency :2440 MHz

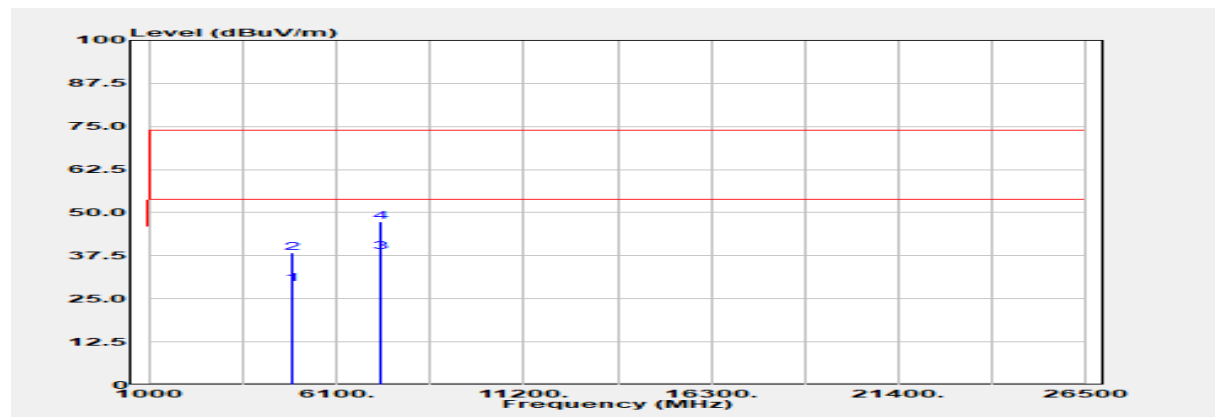
Temp./Humi. :23.3/58

Test Mode :TX CH MID

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4880.000	Average	20.13	9.29	29.42	54.00	-24.58
4880.000	Peak	29.17	9.29	38.46	74.00	-35.54
7320.000	Average	20.43	18.08	38.51	54.00	-15.49
7320.000	Peak	29.33	18.08	47.40	74.00	-26.60

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Report Number :TERF2204000201E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2022-05-03

Test Frequency :2440 MHz

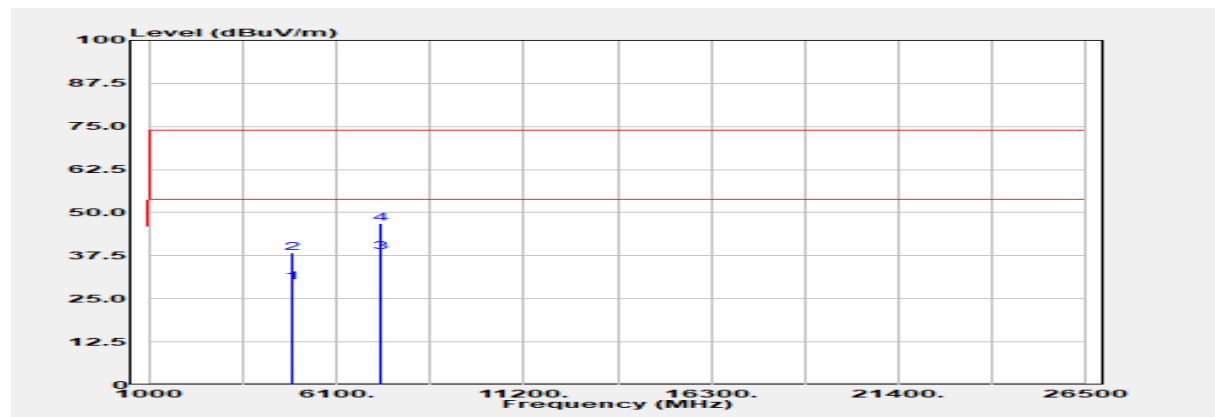
Temp./Humi. :23.3/58

Test Mode :TX CH MID

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Temo Chen



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
4880.000	Average	20.51	9.29	29.80	54.00	-24.20
4880.000	Peak	28.98	9.29	38.27	74.00	-35.73
7320.000	Average	20.43	18.08	38.51	54.00	-15.49
7320.000	Peak	28.71	18.08	46.79	74.00	-27.21

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Report Number :TERF2204000201E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2022-05-03

Test Frequency :2480 MHz

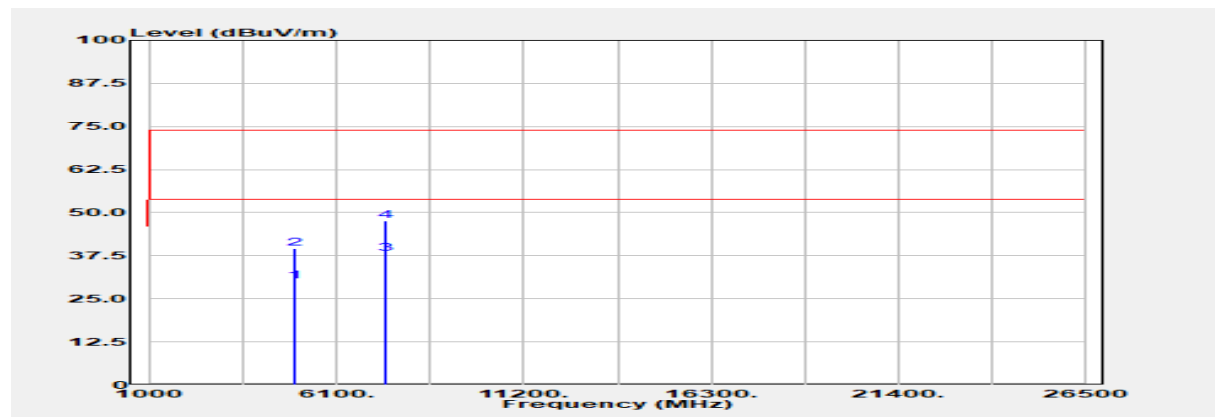
Temp./Humi. :23.3/58

Test Mode :TX CH HIGH

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Temo Chen



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
4960.000	Average	20.02	10.03	30.05	54.00	-23.95
4960.000	Peak	29.53	10.03	39.56	74.00	-34.44
7440.000	Average	19.92	18.23	38.15	54.00	-15.85
7440.000	Peak	29.42	18.23	47.64	74.00	-26.36

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Report Number :TERF2204000201E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2022-05-03

Test Frequency :2480 MHz

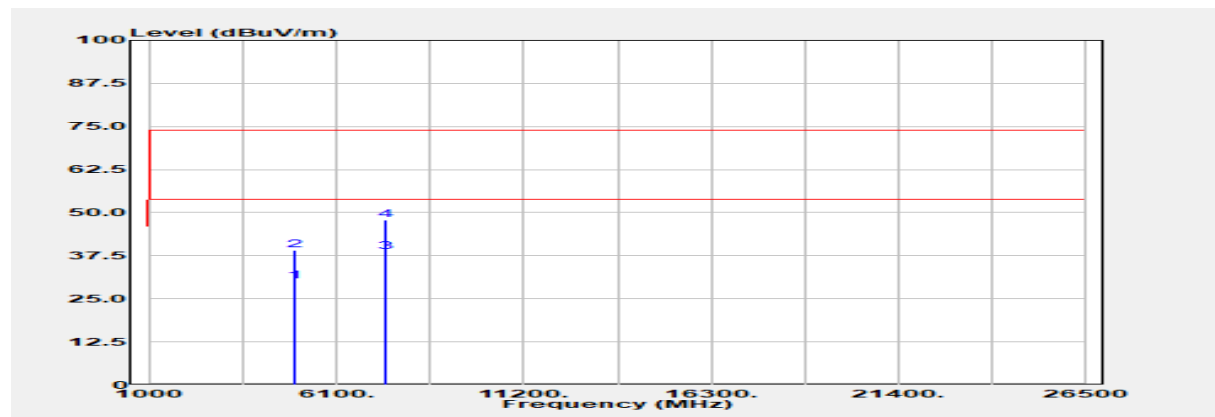
Temp./Humi. :23.3/58

Test Mode :TX CH HIGH

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Temo Chen



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
4960.000	Average	20.15	10.03	30.18	54.00	-23.82
4960.000	Peak	29.00	10.03	39.03	74.00	-34.97
7440.000	Average	20.43	18.23	38.66	54.00	-15.34
7440.000	Peak	29.57	18.23	47.80	74.00	-26.20

~ End of Report ~

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