

**ELECTROMAGNETIC EMISSIONS  
COMPLIANCE REPORT**

**Applicant:** CORAL-TAIYI Co. Ltd.  
8F-3, No. 200, Gangqian Rd, Neihu District Taipei City,  
114, Taiwan (R.O.C.)

**Manufacturer:** CORAL-TAIYI Co. Ltd.  
8F-3, No. 200, Gangqian Rd, Neihu District Taipei City,  
114, Taiwan (R.O.C.)

**Product Name:** Wireless MCU Module

**Brand Name:** CORAL SENSE

**Model No.:** ABR-WM01-MKE, ABR-WM01-M

**Model Difference:** ABR-WM01-MKE contains an extension board  
ABR-WM01-M does not contain an extension board

**Report Number:** TERF2208001445E2

**FCC ID** 2A7B5-M2X

**IC:** 29413-M2X

**Date of EUT Received:** Aug. 23, 2022

**Date of Test:** Aug. 31, 2022~Oct. 18, 2022

**Issue Date:** Oct. 21, 2022

Approved By

Arno Hsieh

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, ISSED RSS-247.

The results of this report relate only to the sample identified in this report.

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## Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2208001445E2	00	Original.	Oct. 21, 2022	Yi-Shan Tsai	

**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:	Wireless MCU Module
Brand Name:	CORAL SENSE
Model No.:	ABR-WM01-MKE, ABR-WM01-M
Model Difference:	ABR-WM01-MKE contains an extension board ABR-WM01-M does not contain an extension board
Hardware Version:	1.0.0
Firmware Version:	1.0.0
EUT Series No.:	TE-2008000170P
Power Supply:	3.3Vdc
Test Software (Name/Version)	Nrf Connect for Desktop v3.9.3

### 1.2 RF Specification

Radio Technology:	BLE
Frequency Range:	2402 – 2480MHz
Channel number:	40 channels
Modulation type:	GFSK
Transmit Power:	BLE 1M: 6.28 dBm BLE 2M: 6.27 dBm

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### 1.3 Antenna Designation

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)
Dipole	INPAQ	RFDPA131010EMAB301	2402~2480	<b>3.31</b>
Dipole	PSA	RFDPA480700SMABX01	2402~2480	2.12
Chip	PSA	ASC_RFECA3216060A1T	2402~2480	2.09
Chip	PSA	ASC_RFANT3216120A5T	2402~2480	<b>2.93</b>
PCB	PSA	ABR-ANT-DF01	2402~2480	<b>1.31</b>

**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 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 indication where measurements occurred in specific test site and address.

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## 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.

### 2.4.2 For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

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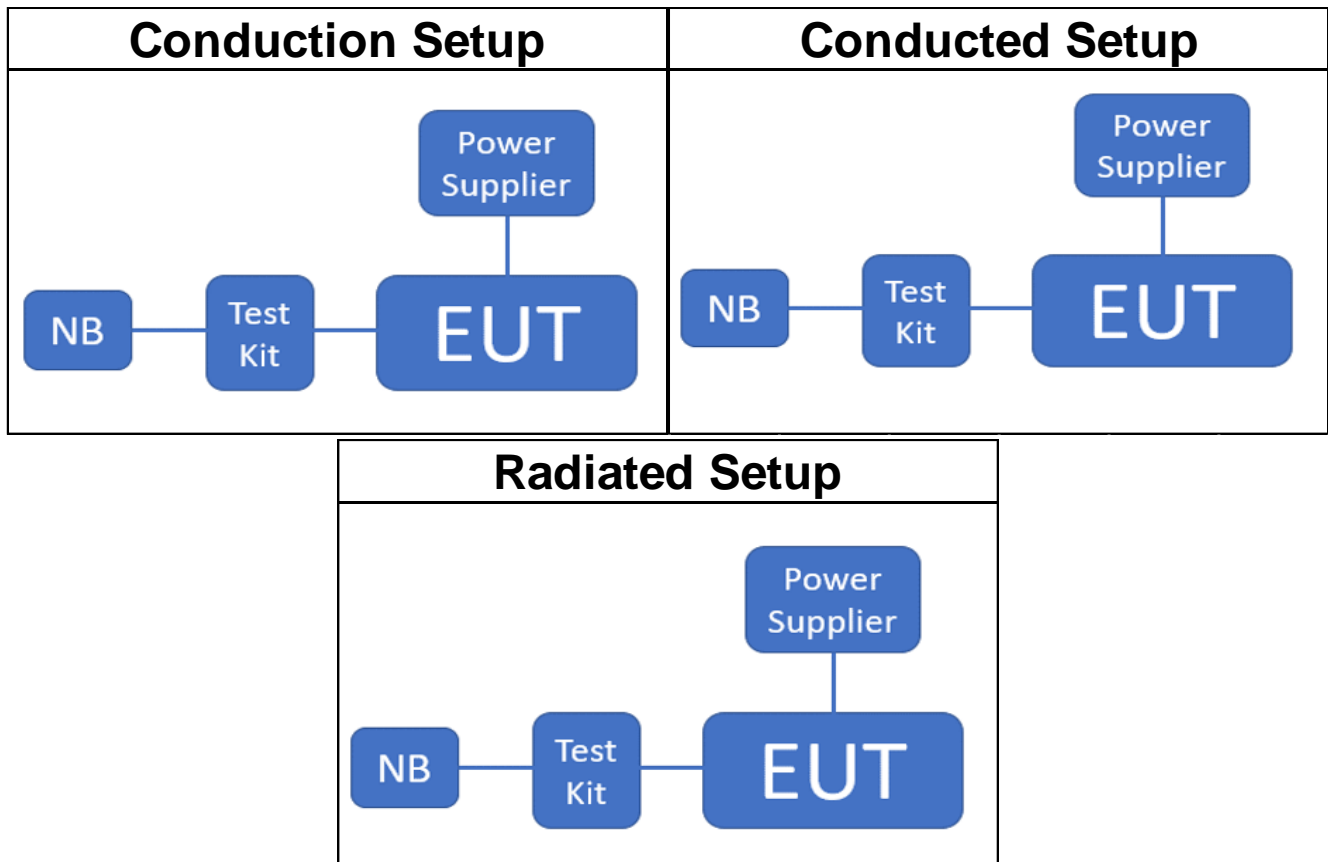
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## 2.5 Test Configuration



## 2.6 Control Unit(s)

AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	T440p	P0000665	N/A	N/A
Conducted Emission Test Site: Conducted G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	T470	P0001293	N/A	N/A
Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	L480	P0002332	N/A	N/A

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### 3 SUMMARY OF TEST RESULTS

FCC Rules	ISED Rules	Description Of Test	Result
§15.207(a)	RSS-Gen §8.8	AC Power Line Conducted Emission	Compliant
§15.247(b) (3)	RSS-247 §5.4 d	Peak Output Power	Compliant
§15.247(a)(2)	RSS-247 §5.2 a RSS-Gen §6.7	Emission Bandwidth	Compliant
§15.247(d) §15.205 §15.209	RSS-247 §5.5 RSS-Gen §8.9 RSS-Gen §8.10	Radiated & Conducted Band Edge and Spurious Emission	Compliant
§15.247(e)	RSS-247 §5.2 b	Peak Power Density	Compliant
§15.203	N/A	Antenna Requirement	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		

### 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.

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RADIATED EMISSION TEST (BELOW 1 GHz)				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
Bluetooth LE	0 to 39	20	GFSK	1
Bluetooth LE	0 to 39	20	GFSK	2
RADIATED EMISSION TEST (ABOVE 1 GHz)				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
Bluetooth LE	0 to 39	0,20,39	GFSK	1
Bluetooth LE	0 to 39	0,20,39	GFSK	2

CONDUCTED TEST				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
Bluetooth LE	0 to 39	0,20,39	GFSK	1
Bluetooth LE	0 to 39	0,20,39	GFSK	2

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## Spot check

RADIATED EMISSION TEST (BELOW 1 GHz)				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
Bluetooth LE	0 to 39	20	GFSK	1
Bluetooth LE	0 to 39	20	GFSK	2
RADIATED EMISSION TEST (ABOVE 1 GHz)				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
Bluetooth LE	0 to 39	0,20,39	GFSK	1
Bluetooth LE	0 to 39	0,20,39	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 Emission from AC power line

AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
LISN	SCHWARZBECK Mess-Elektronik	NSLK8127	973	04/13/2022	04/12/2023
DC Power Supply	Agilent	E3640A	MY53140006	05/16/2022	05/15/2023
EMI Test Receiver	R&S	ESCI	101342	04/25/2022	04/24/2023
Coaxial Cable	EC Lab	RF-HY-CAB-250	RF-HY-CAB-250-01	03/27/2022	03/26/2023
Pulse Limiter	EC Lab	VTSD 9561F-N	485	03/27/2022	03/26/2023
Test Software	audix	e3	E3 20923 SGS Ver.9 ( C )	N.C.R	N.C.R

### 6.2 Conducted Measurement

Conducted Emission Test Site: Conducted G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071570	06/01/2022	05/31/2023
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/21/2022	06/20/2023
DC Power Supply	Agilent	E3640A	MY53140006	05/16/2022	05/15/2023
4TX MIMO Power Test Set	Keysight	X8750A	MY58000196	01/25/2022	01/24/2023
4TX MIMO Power Test Set	Keysight	X8750A	MY58000197	01/25/2022	01/24/2023
4TX MIMO Power Test Set	Keysight	X8750A	MY58000198	01/25/2022	01/24/2023
4TX MIMO Power Test Set	Keysight	X8750A	MY58000202	01/25/2022	01/24/2023
Test Software	Keysight	IOT0047A	Ver 22.1.20.15	N.C.R	N.C.R
Attenuator	Marvelous	WATT-218FS-10	RF19	11/18/2021	11/17/2022
DC Block	PASTERNAK	PE8210	RF159	11/18/2021	11/17/2022

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### 6.3 Radiated Measurement

Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-617	11/12/2021	11/11/2022
Horn Antenna	Schwarzbeck	BBHA9170	184	12/16/2021	12/15/2022
Horn Antenna	Schwarzbeck	BBHA9120D	1341	05/31/2022	05/30/2023
Loop Antenna	ETS.LINDGREN	6502	143303	05/14/2022	05/13/2023
3m Site NSA	SGS	966 chamber D	N/A	04/30/2022	04/29/2023
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/24/2022	03/23/2023
Test Software	audix	e3	E3 20923 SGS Ver.9 ( C )	N.C.R	N.C.R
DC Power Supply	Agilent	E3640A	MY53140006	05/16/2022	05/15/2023
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2021	10/26/2022
Pre-Amplifier	EMC Instruments	EMC9135	980234	11/18/2021	11/17/2022
Pre-Amplifier	EMC Instruments	EMC12630SE	980273	11/18/2021	11/17/2022
Attenuator	Marvelous	WATT-218FS-10	RF17	11/18/2021	11/17/2022
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	11/18/2021	11/17/2022
Coaxial Cable	Huber Suhner	EMC106-SM-SM-7200	150703	11/18/2021	11/17/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17413/4	11/18/2021	11/17/2022

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

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## 7 CONDUCTED EMISSION TEST

### 7.1 Standard Applicable:

Frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

Frequency range MHz	Limits (dB $\mu$ V)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

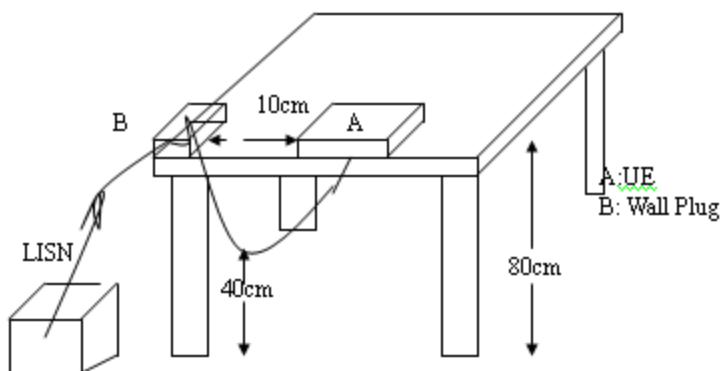
Note

- 1.The lower limit shall apply at the transition frequencies
- 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

### 7.2 EUT Setup:

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

### 7.3 Test Setup



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#### 7.4 Measurement Procedure:

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all phases of power being supplied by given UE are completed

#### 7.5 Measurement Result:

Note: Refer to next page for measurement data and plots.

Note2: The \* reveals the worst-case results that closest to the limit.

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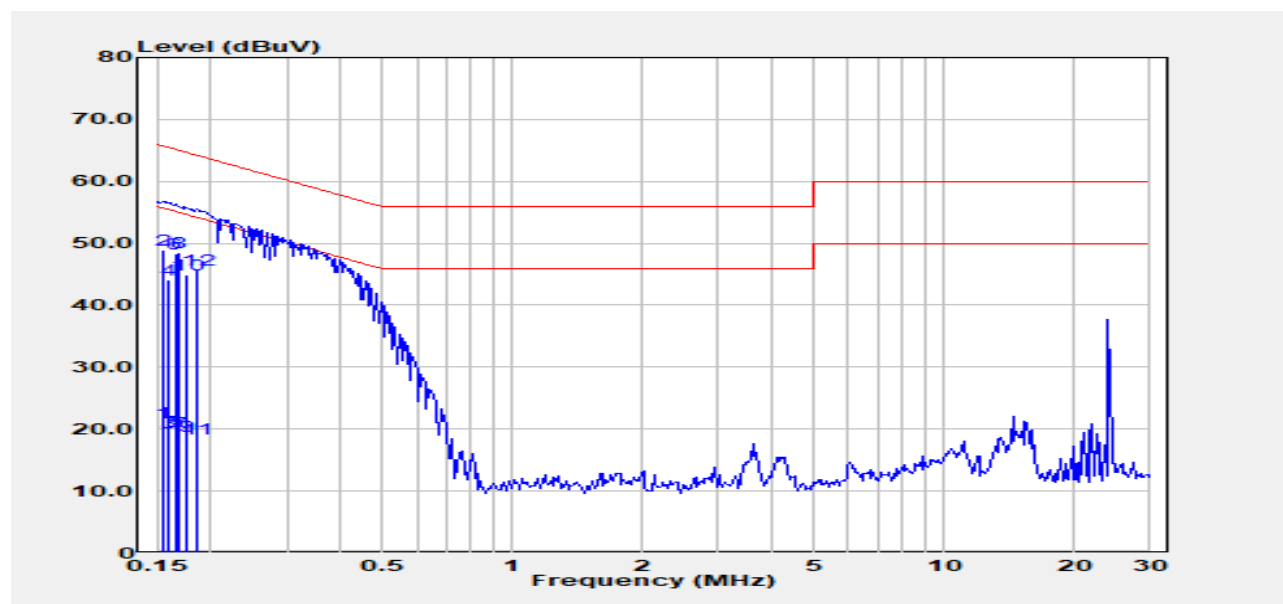
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## AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number :TERF2208001445E2      Test Site :Conduction C  
 Test Mode :BLE 1M      Test Date :2022-10-14  
 Power :120V/60Hz      Temp./Humi. :23.7/54  
 Probe :L1      Engineer :Howard Huang  
 Note :RFDPA131010EMAB301

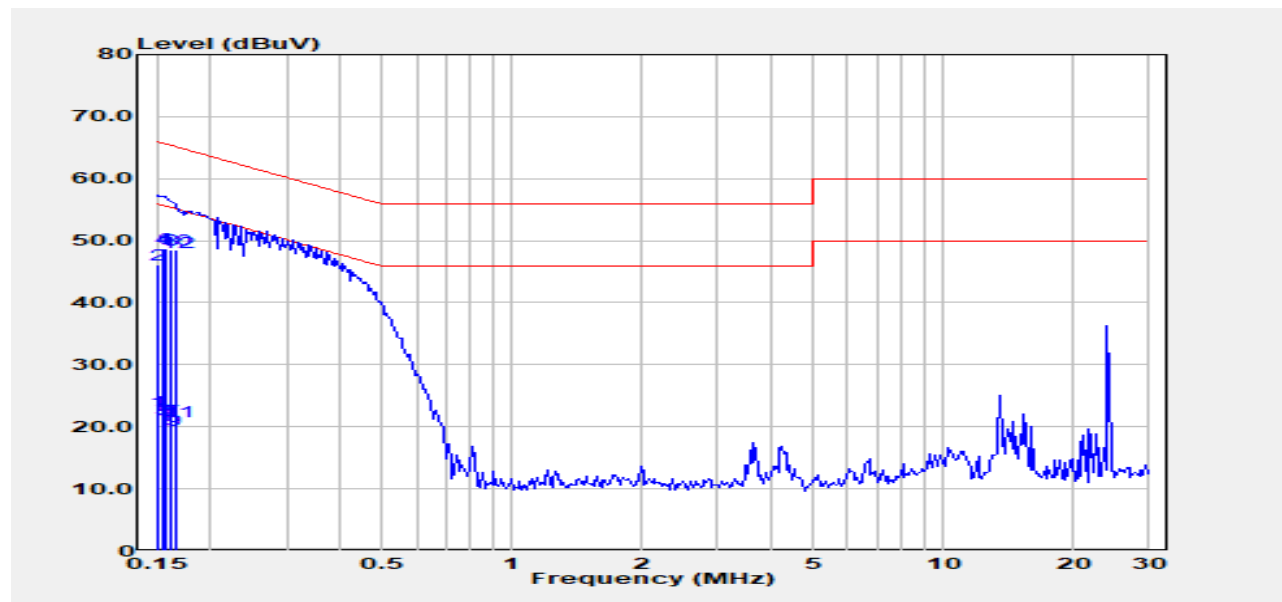


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.155	Average	10.70	10.27	20.97	55.74	-34.77
0.155	QP	38.70	10.27	48.97	65.74	-16.77
0.160	Average	9.10	10.27	19.37	55.47	-36.10
0.160	QP	33.80	10.27	44.07	65.47	-21.40
0.165	Average	9.30	10.27	19.57	55.21	-35.64
0.165	QP	38.10	10.27	48.37	65.21	-16.84
0.169	Average	9.20	10.27	19.47	55.03	-35.56
0.169	QP	38.20	10.27	48.47	65.03	-16.56
0.176	Average	8.60	10.27	18.87	54.68	-35.81
0.176	QP	34.60	10.27	44.87	64.68	-19.81
0.185	Average	8.10	10.27	18.37	54.24	-35.87
0.185	QP	35.40	10.27	45.67	64.24	-18.57

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Report Number	:TERF2208001445E2	Test Site	:Conduction C
Test Mode	:BLE 1M	Test Date	:2022-10-14
Power	:120V/60Hz	Temp./Humi.	:23.7/54
Probe	:N	Engineer	:Howard Huang
Note	:RFDPA131010EMAB301		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V	Limit dB $\mu$ V	Margin dB
0.152	Average	12.20	10.28	22.48	55.91	-33.43
0.152	QP	35.80	10.28	46.08	65.91	-19.83
0.155	Average	11.00	10.28	21.28	55.74	-34.46
0.155	QP	38.50	10.28	48.78	65.74	-16.96
0.156	Average	10.80	10.28	21.08	55.65	-34.57
0.156	QP	38.40	10.28	48.68	65.65	-16.97
0.162	Average	10.70	10.28	20.98	55.38	-34.41
0.162	QP	38.20	10.28	48.48	65.38	-16.91
0.165	Average	9.20	10.28	19.48	55.21	-35.73
0.165	QP	38.20	10.28	48.48	65.21	-16.73
0.167	Average	10.50	10.28	20.78	55.12	-34.34
0.167	QP	37.80	10.28	48.08	65.12	-17.04

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## Spot check

Report Number :TERF2208001445E2

Test Site :Conduction C

Test Mode :BLE 1M

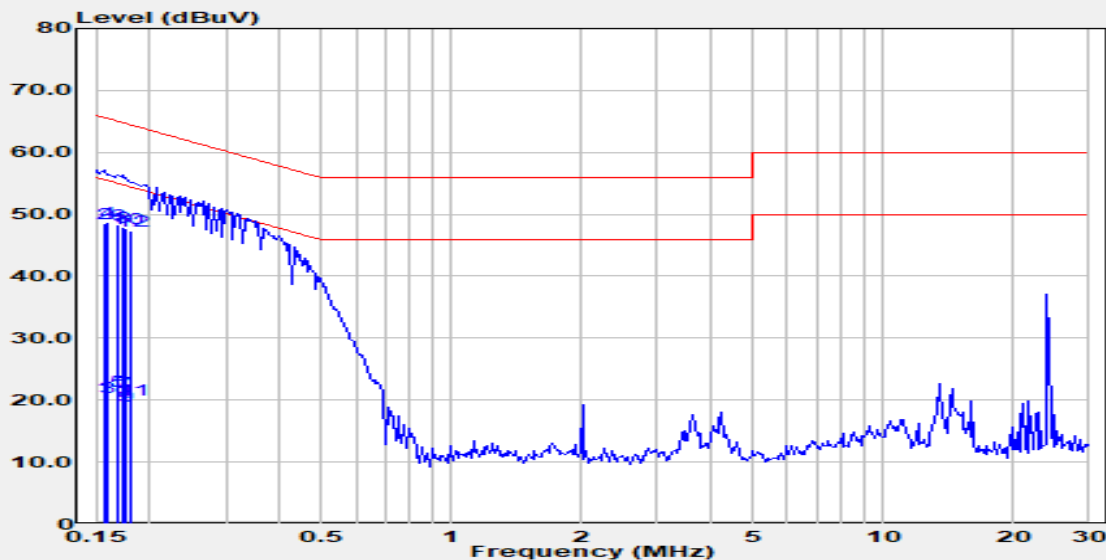
Test Date :2022-10-14

Power :120V/60Hz

Temp./Humi. :23.7/54

Probe :L1

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.156	Average	10.10	10.27	20.37	55.65	-35.28
0.156	QP	38.30	10.27	48.57	65.65	-17.08
0.160	Average	10.10	10.27	20.37	55.47	-35.10
0.160	QP	38.50	10.27	48.77	65.47	-16.70
0.169	Average	11.10	10.27	21.37	55.03	-33.66
0.169	QP	38.00	10.27	48.27	65.03	-16.76
0.172	Average	10.90	10.27	21.17	54.86	-33.69
0.172	QP	37.70	10.27	47.97	64.86	-16.89
0.176	Average	8.70	10.27	18.97	54.68	-35.71
0.176	QP	37.40	10.27	47.67	64.68	-17.01
0.182	Average	9.70	10.27	19.97	54.42	-34.45
0.182	QP	37.10	10.27	47.37	64.42	-17.05

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Report Number :TERF2208001445E2

Test Site :Conduction C

Test Mode :BLE 1M

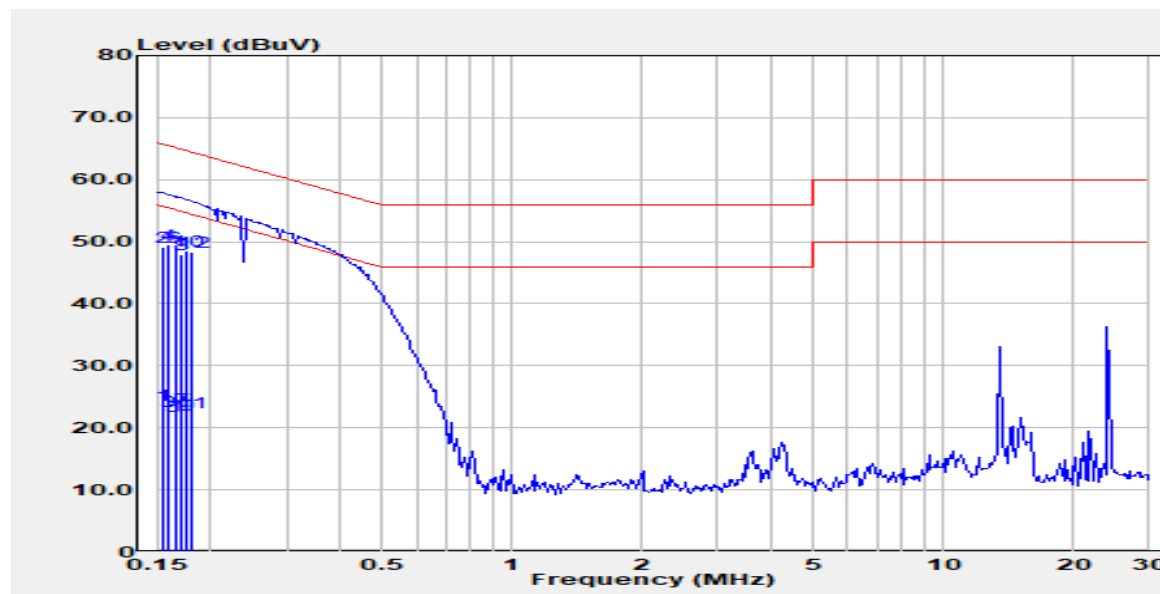
Test Date :2022-10-14

Power :120V/60Hz

Temp./Humi. :23.7/54

Probe :N

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.155	Average	13.40	10.28	23.68	55.74	-32.06
0.155	QP	38.80	10.28	49.08	65.74	-16.66
0.160	Average	12.40	10.28	22.68	55.47	-32.79
0.160	QP	39.20	10.28	49.48	65.47	-15.99
0.165	Average	11.60	10.28	21.88	55.21	-33.33
0.165	QP	38.90	10.28	49.18	65.21	-16.03
0.170	Average	12.80	10.28	23.08	54.94	-31.87
0.170	QP	37.60	10.28	47.88	64.94	-17.07
0.176	Average	11.80	10.27	22.07	54.68	-32.61
0.176	QP	38.20	10.27	48.47	64.68	-16.21
0.180	Average	12.20	10.27	22.47	54.50	-32.03
0.180	QP	38.00	10.27	48.27	64.50	-16.23

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## 8 PEAK OUTPUT POWER MEASUREMENT

### 8.1 Standard Applicable:

For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt and the e.i.r.p. shall not exceed 4 W.

If the transmitting antenna of directional gain greater than 6dBi are used the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6dBi.

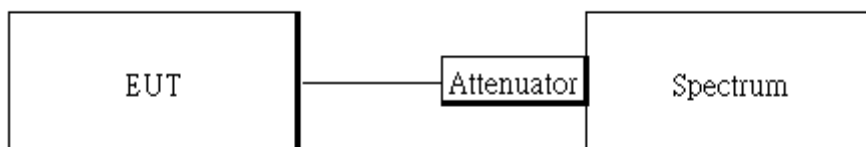
In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

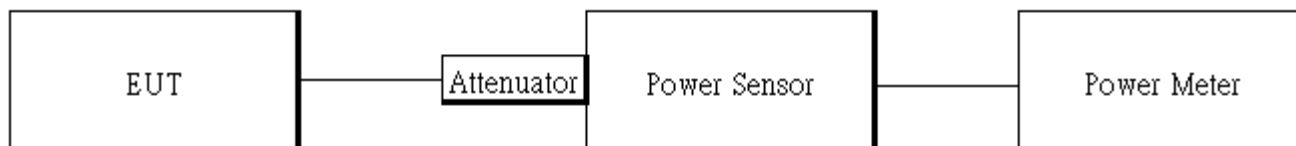
All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

### 8.2 Test Setup

#### 8.2.1 Duty Cycle



#### 8.2.2 Output Power



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### 8.3 Measurement Procedure:

#### 8.3.1 Duty Cycle

1. Place the EUT on the table and set it in transmitting mode.
2. Set span = Zero
3. RBW = 8MHz, VBW = 8MHz,
4. Detector = Peak

#### 8.3.2 Output Power

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.
4. Record the max. Reading as observed from Power Meter.
5. Repeat above procedures until all test default channel measured was complete.

### 8.4 Duty Factor:

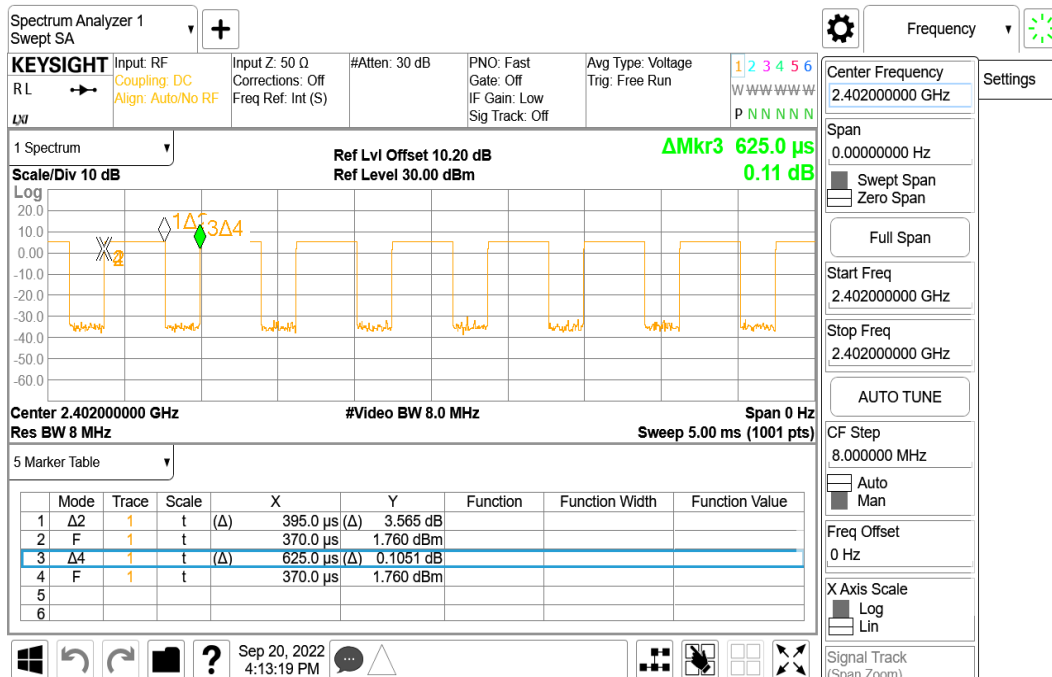
	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log ( 1/Duty Cycle )	1/T (kHz)	VBW setting (kHz)
BLE 1M	63.20	1.99	2.53	3.00
BLE 2M	32.80	4.84	4.88	5.00

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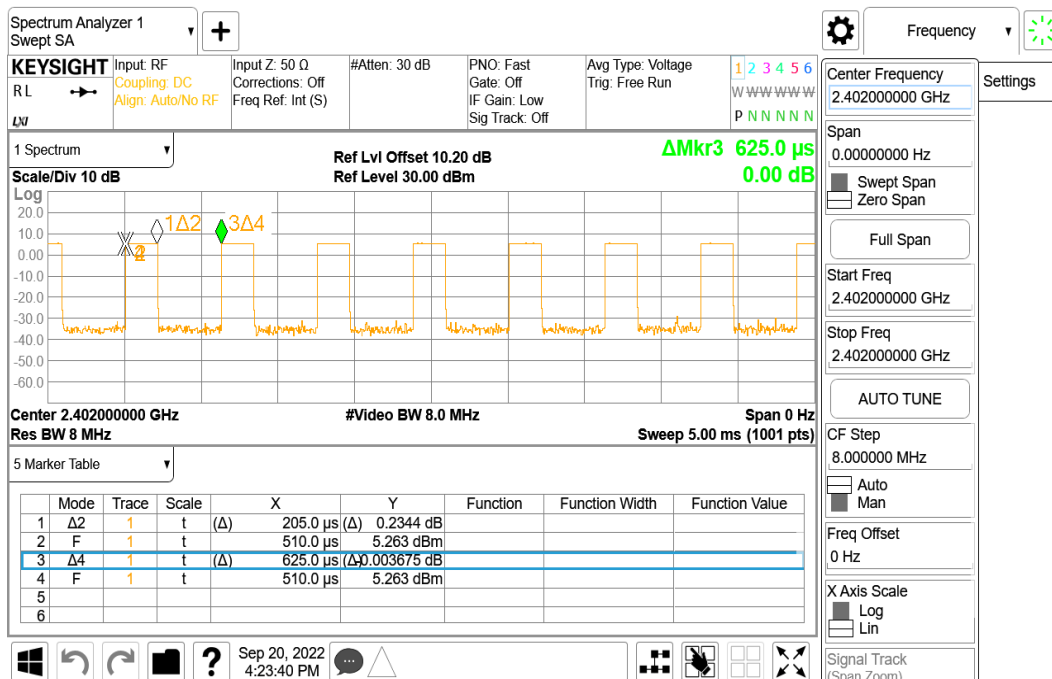
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## BLE\_1M\_LowCH00-2402



## BLE\_2M\_LowCH00-2402



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## Spot check

	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log ( 1/Duty Cycle )	1/T (kHz)	VBW setting (kHz)
BLE 1M	63.20	1.99	2.53	3.00
BLE 2M	33.60	4.74	4.76	5.00

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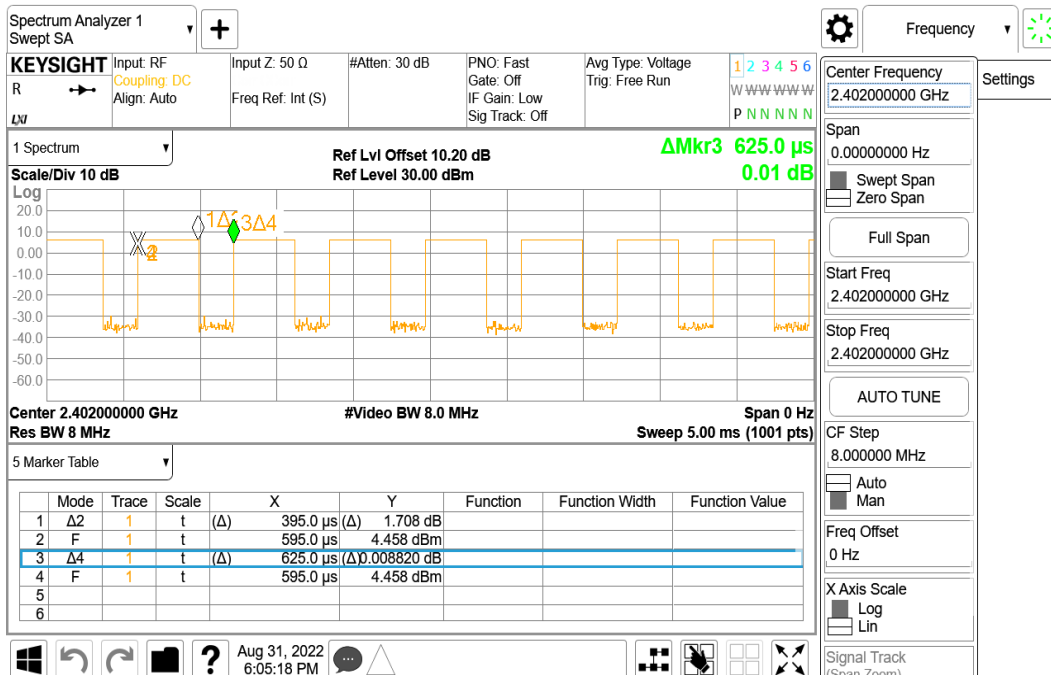
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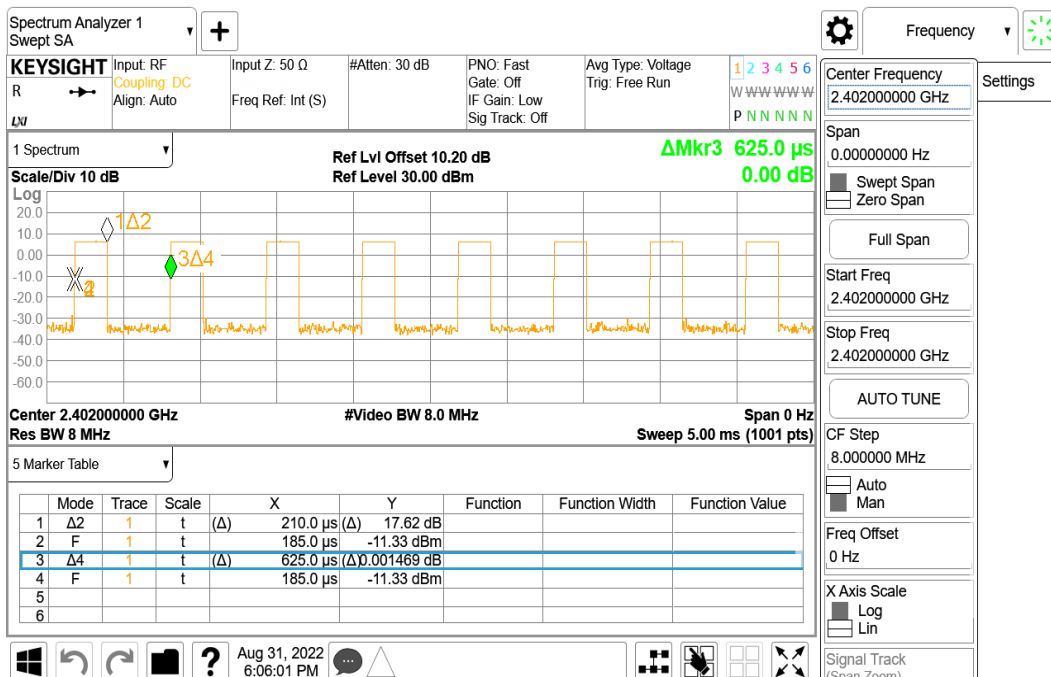
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## BLE\_1M\_LowCH00-2402



## BLE\_2M\_LowCH00-2402



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## 8.5 Output Power:

### 8.5.1 Peak & Avg

#### BLE 1M mode:

CH	Frequency (MHz)	Power set	Peak Power Output (dBm)	Required Limit (dBm)
Low	2402	default	6.22	30
Mid	2442	default	6.27	30
High	2480	default	<b>6.28</b>	30
CH	Frequency (MHz)	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Required Limit (dBm)
Low	2402	default	6.19	30
Mid	2442	default	6.24	30
High	2480	default	6.26	30

*\*Note: Measured by power meter, cable loss 10.2 dB + Duty cycle factor has been offsetted to the power meter for Avg. power and cable loss has been offsetted for Peak power measurement.*

#### BLE 2M mode:

CH	Frequency (MHz)	Power set	Peak Power Output (dBm)	Required Limit (dBm)
Low	2402	default	6.18	30
Mid	2442	default	6.24	30
High	2480	default	<b>6.27</b>	30
CH	Frequency (MHz)	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Required Limit (dBm)
Low	2402	default	5.93	30
Mid	2442	default	5.98	30
High	2480	default	6.01	30

*\*Note: Measured by power meter, cable loss 10.2 dB + Duty cycle factor has been offsetted to the power meter for Avg. power and cable loss has been offsetted for Peak power measurement.*

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## Spot check

## BLE 1M mode:

CH	Frequency (MHz)	Power set	Peak Power Output (dBm)	Required Limit (dBm)
Low	2402	default	5.12	30
Mid	2442	default	5.17	30
High	2480	default	5.13	30
CH	Frequency (MHz)	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Required Limit (dBm)
Low	2402	default	5.03	30
Mid	2442	default	5.09	30
High	2480	default	5.04	30

*\*Note: Measured by power meter, cable loss dB + Duty cycle factor has been offsetted to the power meter for Avg. power and cable loss has been offsetted for Peak power measurement.*

## BLE 2M mode:

CH	Frequency (MHz)	Power set	Peak Power Output (dBm)	Required Limit (dBm)
Low	2402	default	5.12	30
Mid	2442	default	5.15	30
High	2480	default	5.14	30
CH	Frequency (MHz)	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Required Limit (dBm)
Low	2402	default	4.99	30
Mid	2442	default	5.05	30
High	2480	default	5.04	30

*\*Note: Measured by power meter, cable loss dB + Duty cycle factor has been offsetted to the power meter for Avg. power and cable loss has been offsetted for Peak power measurement.*

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## 8.5.2 EIRP

### EIRP BLE 1M mode

CH	Frequency (MHz)	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit
Low	2402	default	6.19	3.31	9.50	4W= 36 dBm
Mid	2442	default	6.24	3.31	9.55	4W= 36 dBm
High	2480	default	6.26	3.31	9.57	4W= 36 dBm

\* **Note:** EIRP = Average Power + Gain

### EIRP BLE 2M mode

CH	Frequency (MHz)	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit
Low	2402	default	5.93	3.31	9.24	4W= 36 dBm
Mid	2442	default	5.98	3.31	9.29	4W= 36 dBm
High	2480	default	6.01	3.31	9.32	4W= 36 dBm

\* **Note:** EIRP = Average Power + Gain

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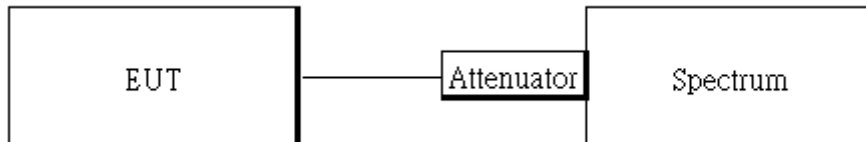
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## 9 EMISSION BANDWIDTH MEASUREMENT

### 9.1 Standard Applicable

The minimum 6 dB bandwidth shall be at least 500 kHz .

### 9.2 Test Setup



### 9.3 Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set the spectrum analyzer as  
RBW= 100 kHz ,  
VBW = 3 X RBW,  
Span= 2 to 5 times of the OBW,  
Sweep=auto,  
Detector = Peak, and Max hold for -6dB Bandwidth test.
5. Set the spectrum analyzer as  
RBW= 1 % to 5% of 99% Bandwidth ,  
VBW  $\geq$  3 X RBW,  
Span= large enough to capture all products of the modulation process,  
Sweep=auto,  
Detector = Peak, and Max hold for 99% Bandwidth test.
6. Mark the peak frequency and 99%dB (upper and lower) frequency
7. Repeat above procedures until all test default channel is completed

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## 9.4 Measurement Result:

### BLE 1M mode

Frequency (MHz)	6dB BW (MHz)	Required BW (MHz)	Result
2402	0.6988	$\geq 0.5$	PASS
2442	0.7024	$\geq 0.5$	PASS
2480	0.6937	$\geq 0.5$	PASS

### BLE 2M mode

Frequency (MHz)	6dB BW (MHz)	Required BW (MHz)	Result
2402	1.135	$\geq 0.5$	PASS
2442	1.139	$\geq 0.5$	PASS
2480	1.121	$\geq 0.5$	PASS

### BLE 1M mode

Frequency (MHz)	99%Bandwidth (MHz)
2402	1.0534
2442	1.0557
2480	1.0522

### BLE 2M mode

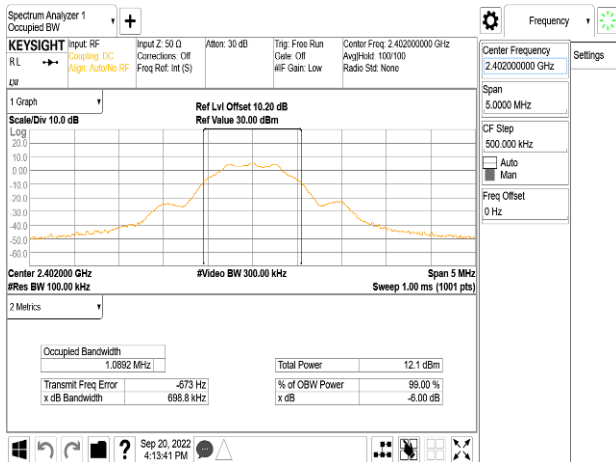
Frequency (MHz)	99%Bandwidth (MHz)
2402	2.0906
2442	2.0955
2480	2.0868

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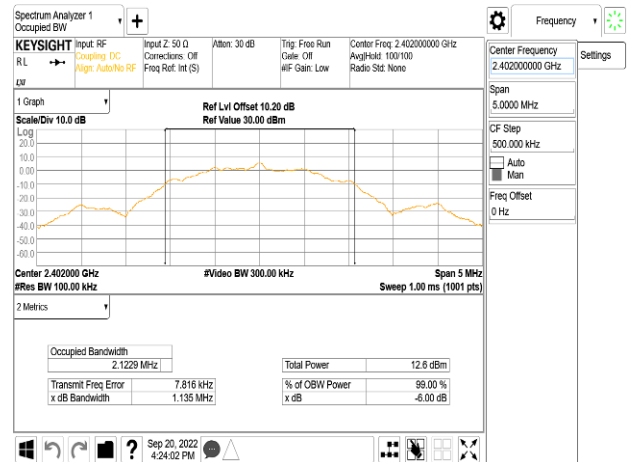
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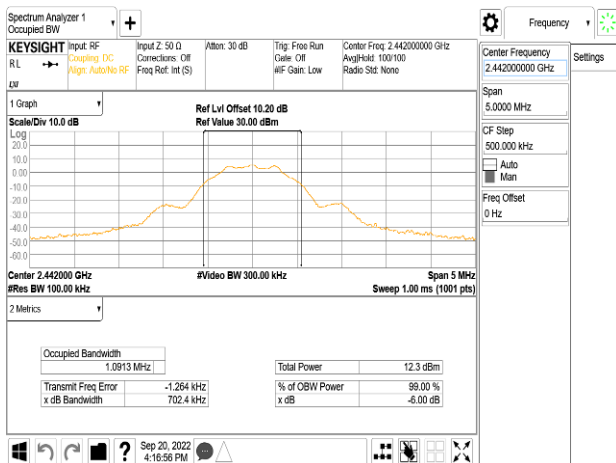
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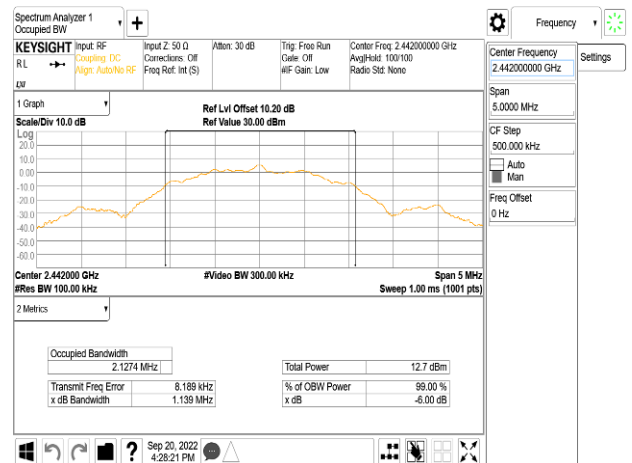
OBW\_BLE 2M\_LowCH00-2402MHz



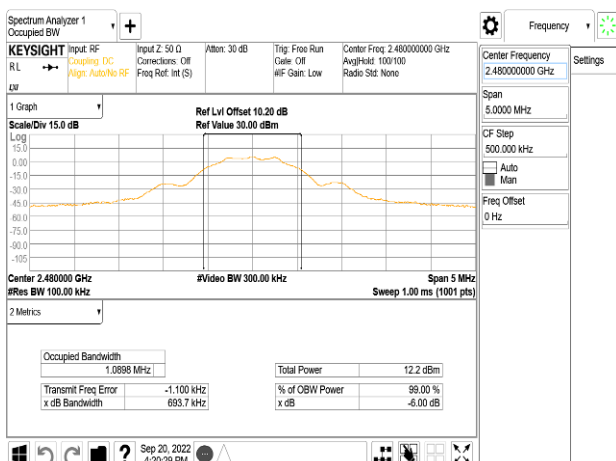
OBW\_BLE 1M\_MidCH20-2442MHz



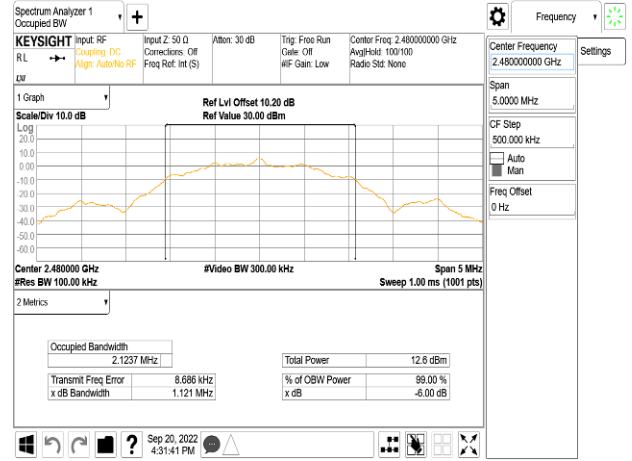
OBW\_BLE 2M\_MidCH20-2442MHz



OBW\_BLE 1M\_HighCH39-2480MHz



OBW\_BLE 2M\_HighCH39-2480MHz



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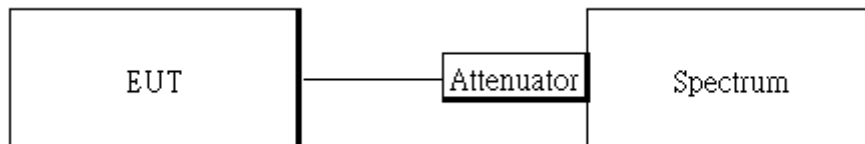
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## 10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

### 10.1 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, as defined in §15.205(a) & RSS-Gen §8.10, must also comply with the radiated emission limits specified in §15.209(a) & RSS-Gen §8.9.

### 10.2 Test Setup



### 10.3 Measurement Procedure

#### 10.3.1 Reference Level of Emission Limit:

1. Set analyzer center frequency to DTS channel center frequency.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW = 100kHz & VBW = 300 kHz.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.

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### 10.3.2 Conducted Band Edge:

1. To connect Antenna Port of EUT to Spectrum.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set start to edge frequency, and stop frequency of spectrum analyzer so as to encompass the spectrum to be examined.
5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Detector = Peak, Sweep = auto
6. Set DL as the limit = reading on marker of reference level measurement – 20dBm
7. Mark the highest readings of the emissions outside of 2400MHz~2483.5MHz.
8. Repeat above procedures until all default test channel (low and high) was complete.

### 10.3.3 Conducted Spurious Emission:

1. To connect Antenna Port of EUT to Spectrum.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
3. Set RBW = 100 kHz & VBW=300 kHz, Detector =Peak, Sweep = Auto
4. Allow trace to fully stabilize.
5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
6. Repeat above procedures until all default test channel measured were complete.

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## 10.4 Measurement Result

### BLE 1M\_Reference Level of Limit

Frequency (MHz)	RF Power Density (dBm)	Reference Level of Limit = PSD - 20dB (dBm)
2402	5.25	-14.75
2442	5.44	-14.56
2480	5.35	-14.65

**NOTE:** cable loss as 10.2dB that offsets in the spectrum

**NOTE:** Refer to next page for plots.

### BLE 2M\_Reference Level of Limit

Frequency (MHz)	RF Power Density (dBm)	Reference Level of Limit = PSD - 20dB (dBm)
2402	5.31	-14.69
2442	5.46	-14.54
2480	5.39	-14.61

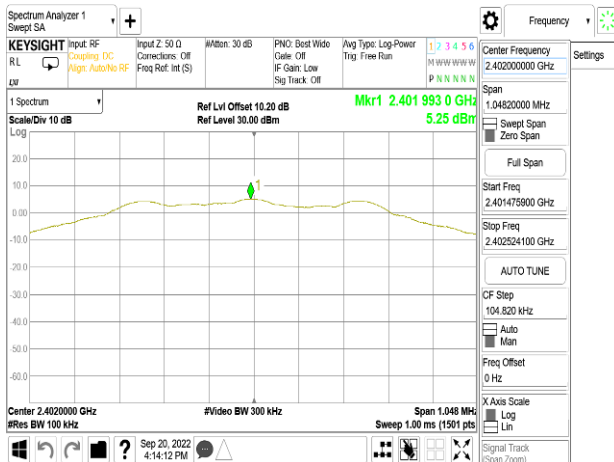
**NOTE:** cable loss as 10.2dB that offsets in the spectrum

**NOTE:** Refer to next page for plots.

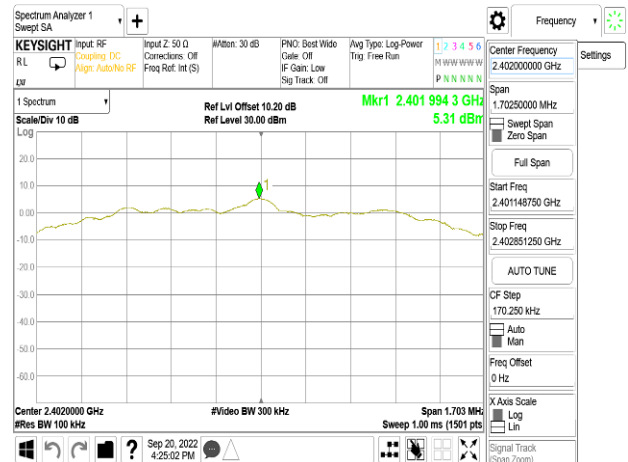
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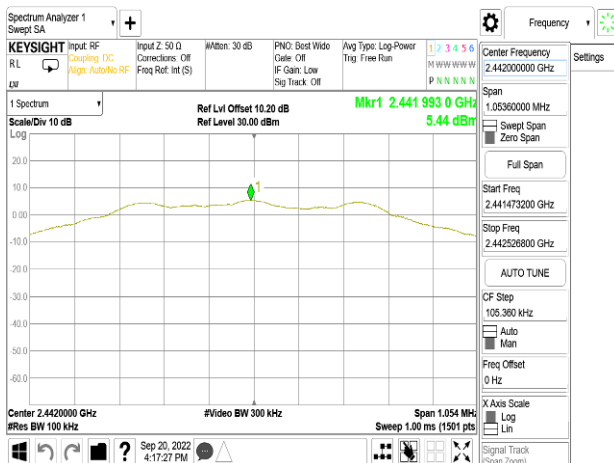
Reference Level\_BLE 1M\_LowCH00-2402MHz



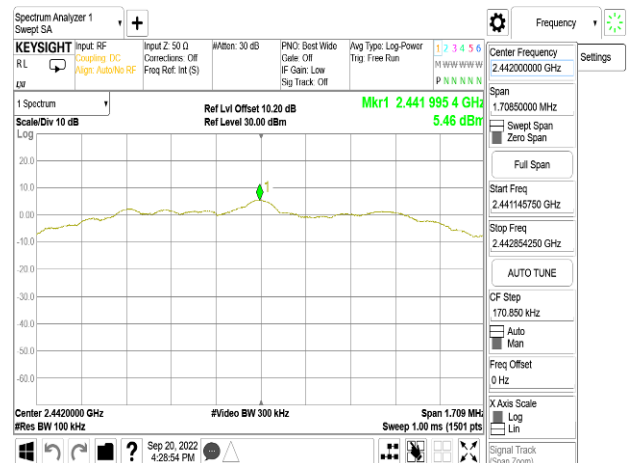
Reference Level\_BLE 2M\_LowCH00-2402MHz



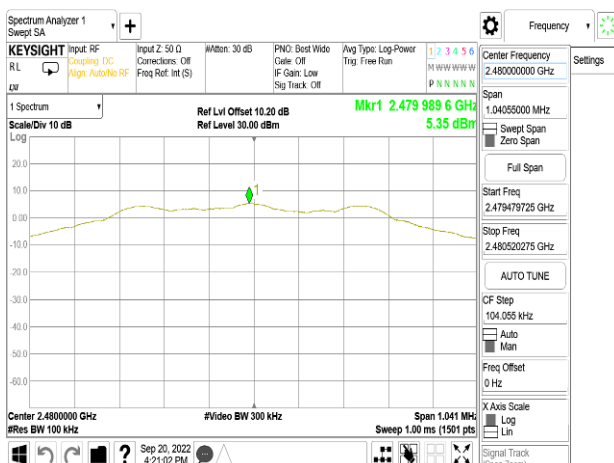
Reference Level\_BLE 1M\_MidCH20-2442MHz



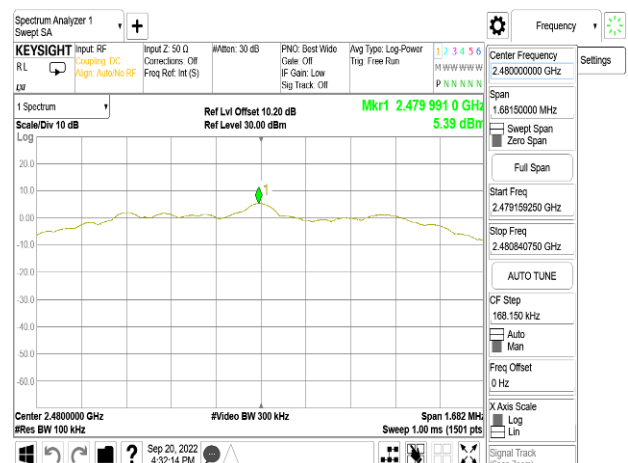
Reference Level\_BLE 2M\_MidCH20-2442MHz



Reference Level\_BLE 1M\_HighCH39-2480MHz



Reference Level\_BLE 2M\_HighCH39-2480MHz

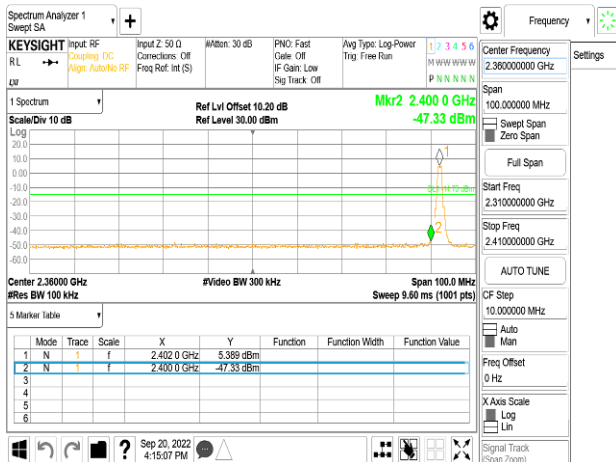


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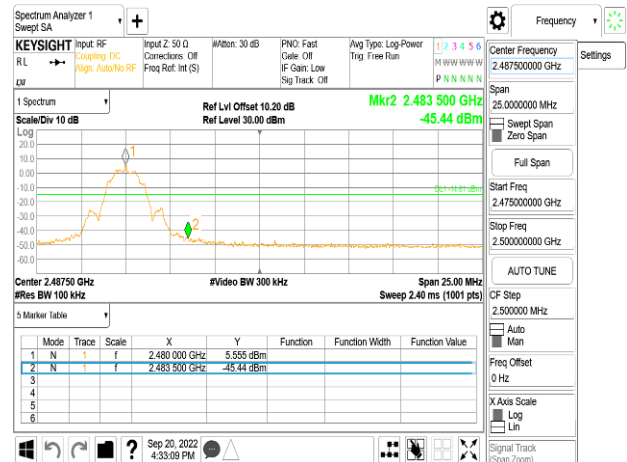
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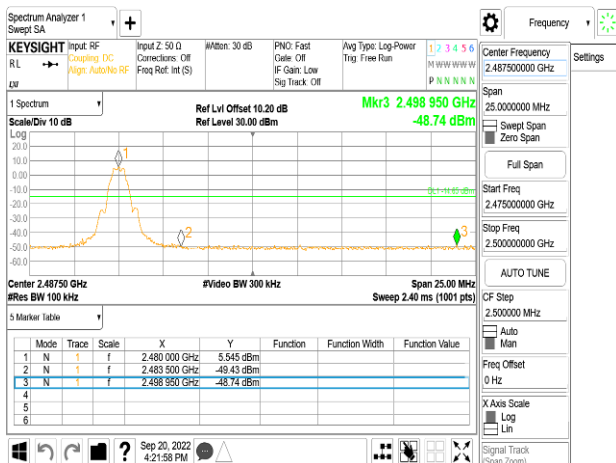
Band Edge\_BLE 1M\_LowCH00-2402MHz



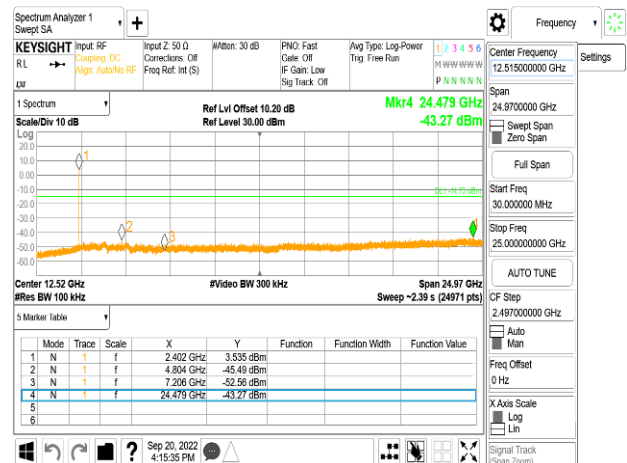
Band Edge\_BLE 2M\_HighCH39-2480MHz



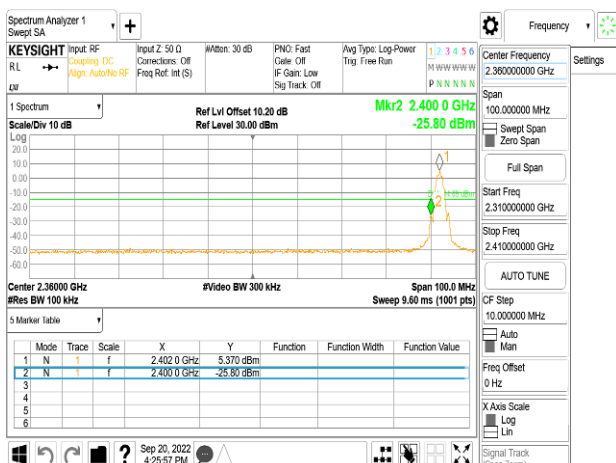
Band Edge\_BLE 1M\_HighCH39-2480MHz



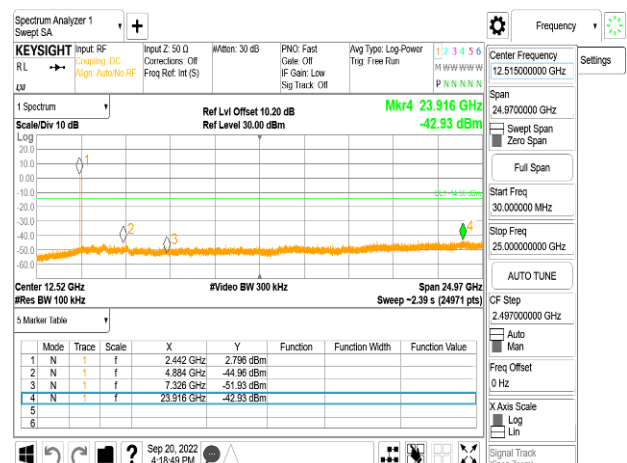
Spurious Emission\_BLE 1M\_LowCH00-2402MHz



Band Edge\_BLE 2M\_LowCH00-2402MHz



Spurious Emission\_BLE 1M\_MidCH20-2442MHz



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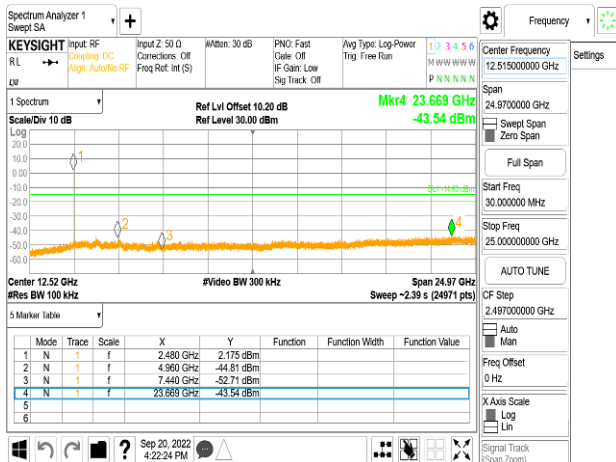
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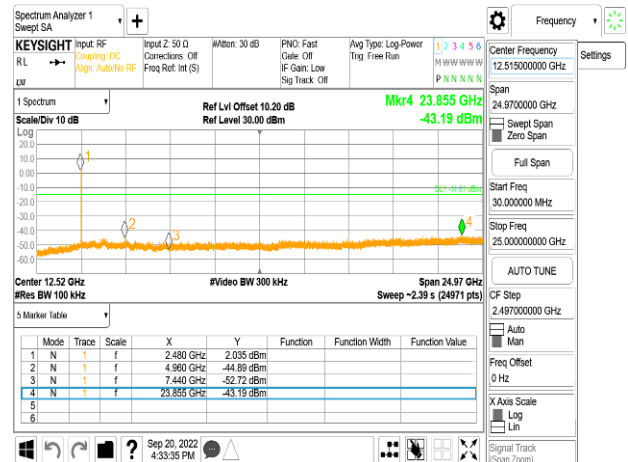
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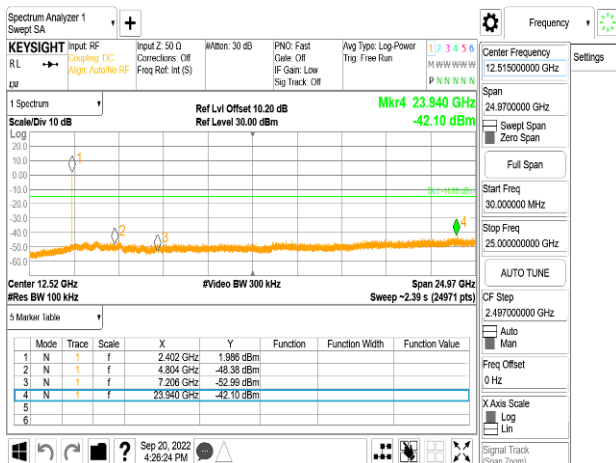
## Spurious Emission\_BLE 1M\_HighCH39-2480MHz



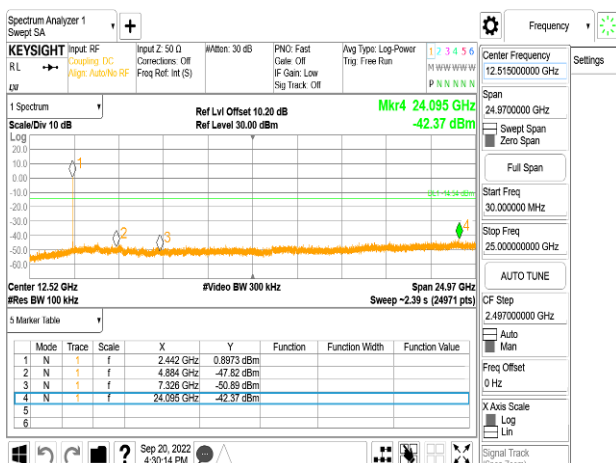
## Spurious Emission\_BLE 2M\_HighCH39-2480MHz



## Spurious Emission\_BLE 2M\_LowCH00-2402MHz



## Spurious Emission\_BLE 2M\_MidCH20-2442MHz



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## 11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

### 11.1 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.

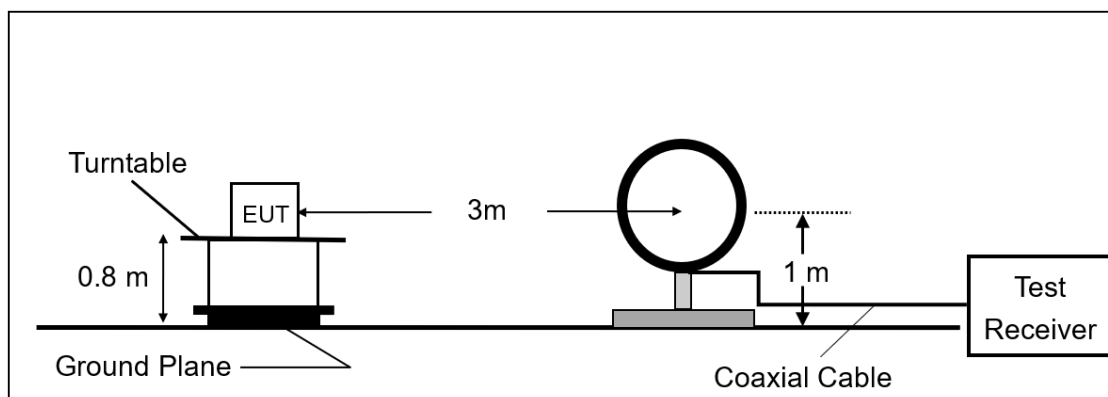
And according to §15.33(a) (1) & RSS-Gen §6.13.2.a for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

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.

### 11.2 Test Setup

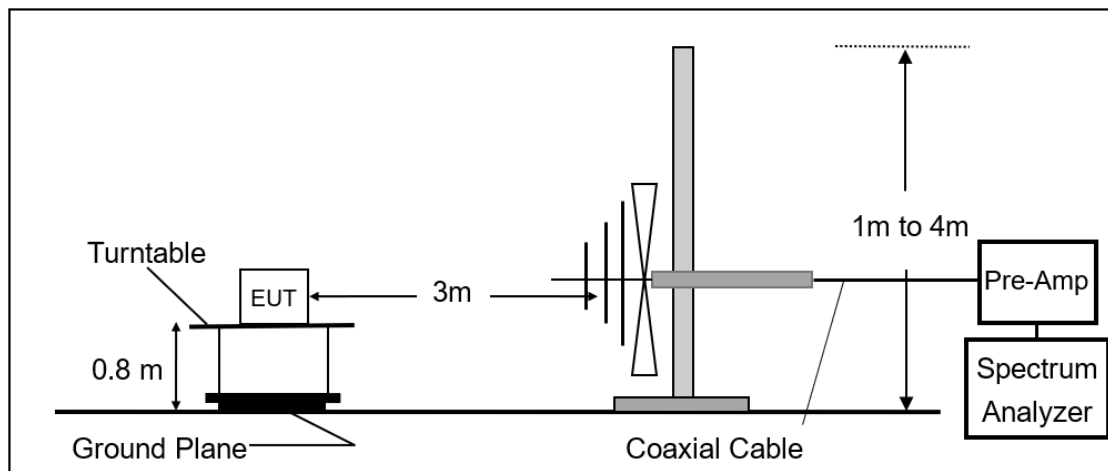
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



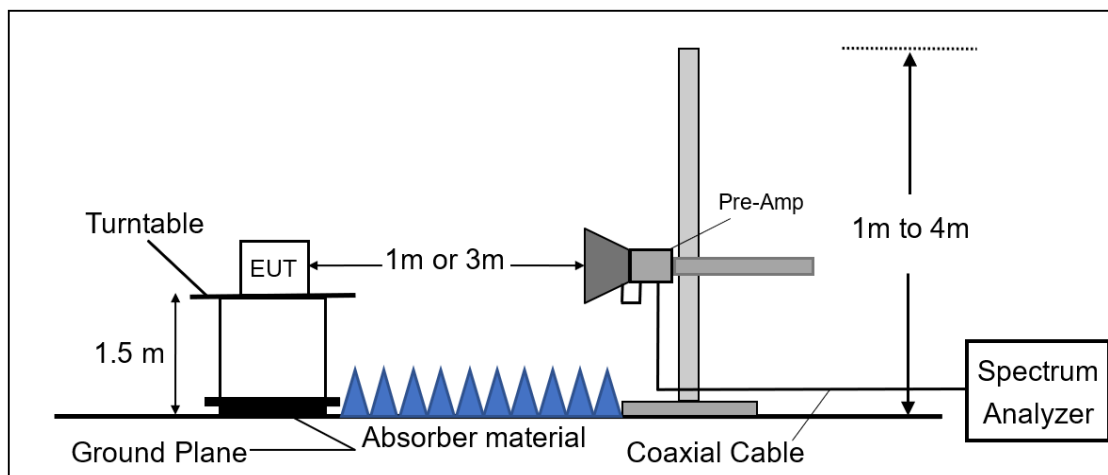
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(B) Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



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



### 11.3 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 ≥ 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.

#### 11.4 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(dBuV/m) = SPA. Reading level(dBuV) + Factor(dB)*

*Factor(dB) = Antenna Factor(dBuV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)*

#### 11.5 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.

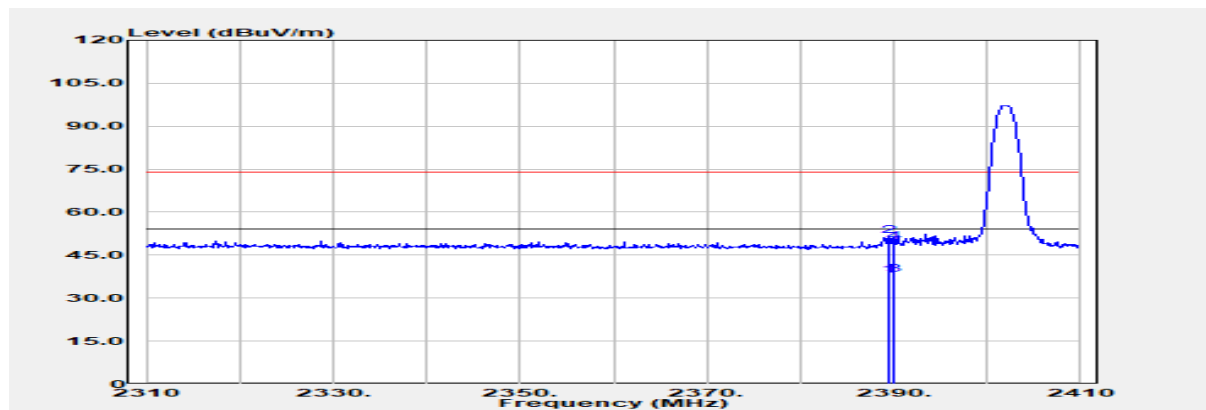
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## 11.6 Measurement Result:

### 11.6.1 Radiated Band Edge Measurement Result

Report Number	:TERF2208001445E2	Test Site	:SAC D
Operation Mode	:BLE 1M	Test Date	:2022-10-11
Test Frequency	:2402 MHz	Temp./Humi.	:20.4/68
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Howard Huang
Note	:ABR-ANT-DF01		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2389.500	Average	43.59	-5.79	37.80	54.00	-16.20
2389.500	Peak	57.53	-5.79	51.75	74.00	-22.25
2390.000	Average	44.05	-5.79	38.26	54.00	-15.74
2390.000	Peak	55.45	-5.79	49.66	74.00	-24.34

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Report Number :TERF2208001445E2

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2022-10-11

Test Frequency :2402 MHz

Temp./Humi. :20.4/68

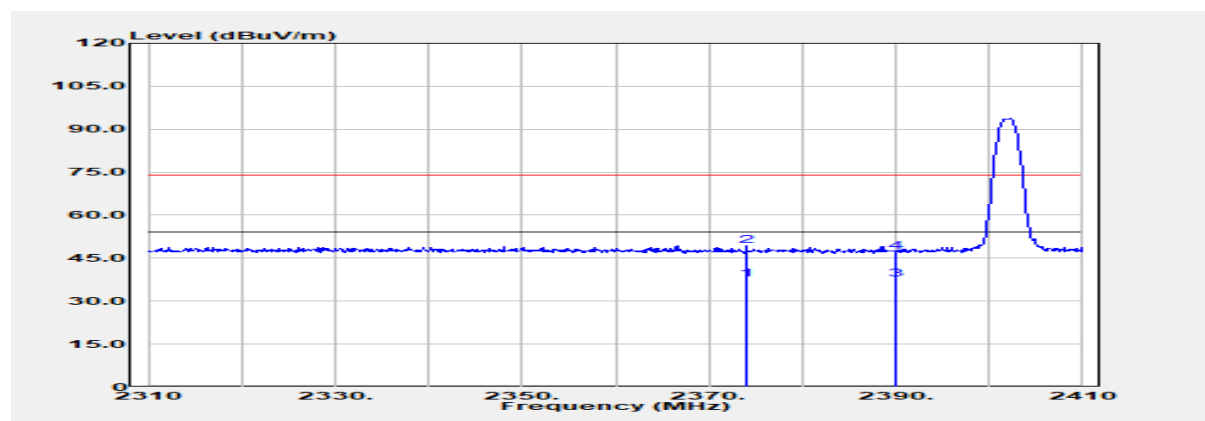
Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Howard Huang

Note :ABR-ANT-DF01



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2374.000	Average	43.29	-5.73	37.55	54.00	-16.45
2374.000	Peak	55.00	-5.73	49.27	74.00	-24.73
2390.000	Average	43.44	-5.79	37.65	54.00	-16.35
2390.000	Peak	52.95	-5.79	47.16	74.00	-26.84

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t (886-2) 2299-3279

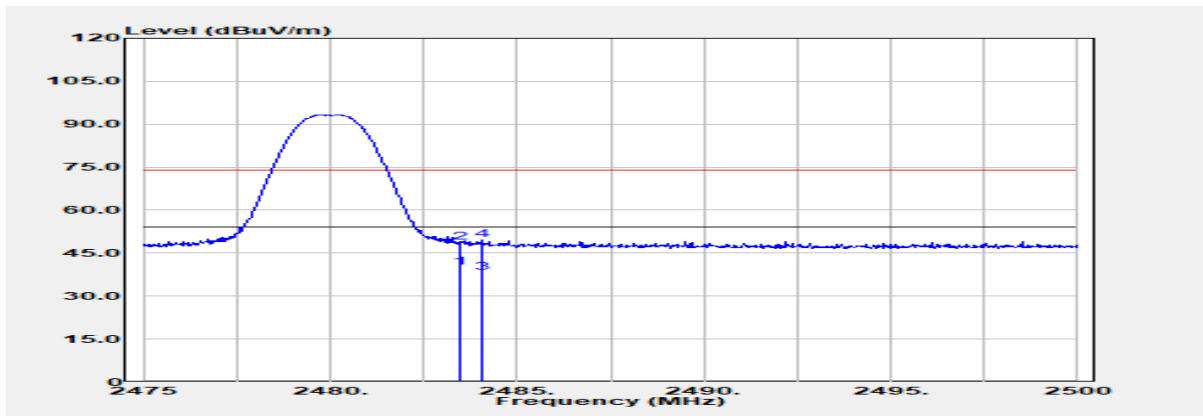
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Report Number :TERF2208001445E2  
 Operation Mode :BLE 1M  
 Test Frequency :2480 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane  
 Note :ABR-ANT-DF01

Test Site :SAC D  
 Test Date :2022-10-11  
 Temp./Humi. :20.4/68  
 Antenna Pol. :Vertical  
 Engineer :Howard Huang



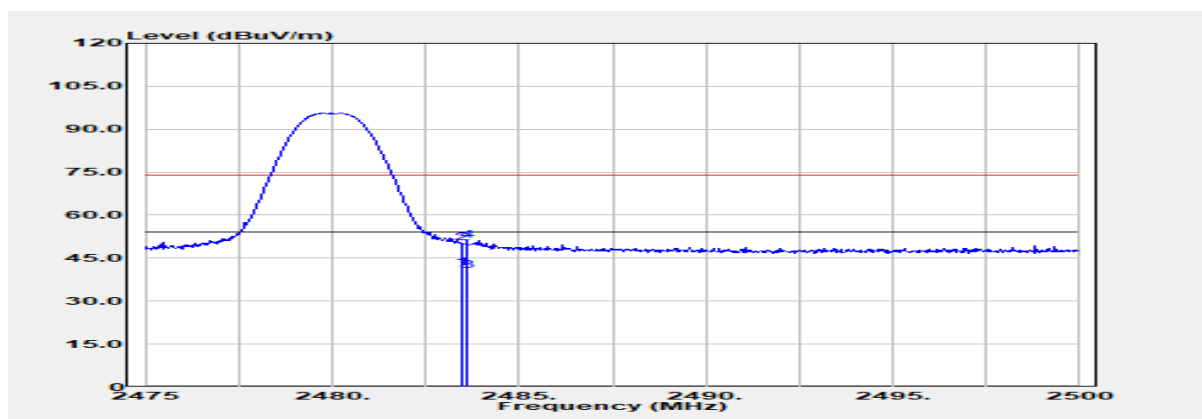
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.500	Average	45.92	-5.91	40.01	54.00	-13.99
2483.500	Peak	54.59	-5.91	48.68	74.00	-25.32
2484.050	Average	44.18	-5.91	38.27	54.00	-15.73
2484.050	Peak	55.42	-5.91	49.51	74.00	-24.49

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 1M  
 Test Frequency :2480 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane  
 Note :ABR-ANT-DF01

Test Site :SAC D  
 Test Date :2022-10-11  
 Temp./Humi. :20.4/68  
 Antenna Pol. :Horizontal  
 Engineer :Howard Huang



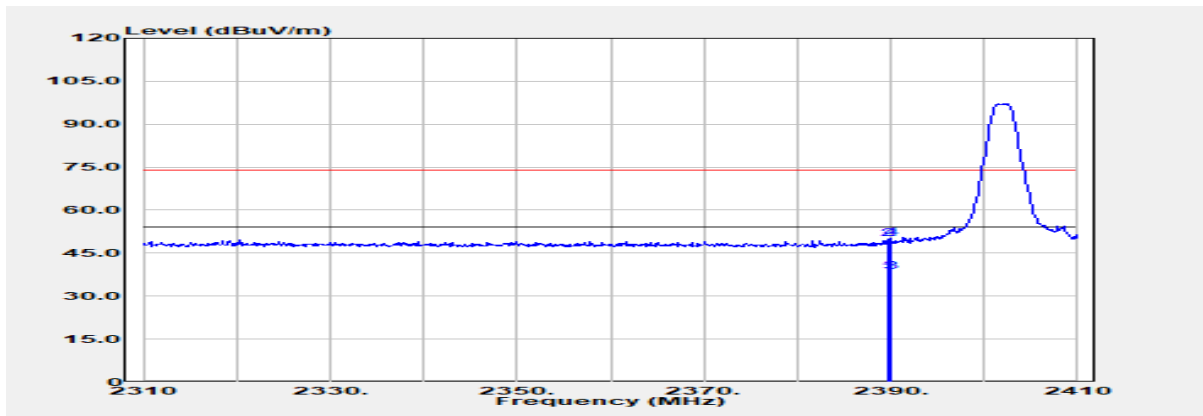
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.500	Average	47.44	-5.91	41.54	54.00	-12.46
2483.500	Peak	56.15	-5.91	50.25	74.00	-23.75
2483.600	Average	46.56	-5.91	40.65	54.00	-13.35
2483.600	Peak	56.93	-5.91	51.02	74.00	-22.98

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 2M  
 Test Frequency :2402 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane  
 Note :ABR-ANT-DF01

Test Site :SAC D  
 Test Date :2022-10-11  
 Temp./Humi. :20.4/68  
 Antenna Pol. :Vertical  
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2389.700	Average	43.95	-5.79	38.16	54.00	-15.84
2389.700	Peak	55.74	-5.79	49.95	74.00	-24.05
2390.000	Average	44.26	-5.79	38.47	54.00	-15.53
2390.000	Peak	56.05	-5.79	50.26	74.00	-23.74

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Report Number :TERF2208001445E2

Test Site :SAC D

Operation Mode :BLE 2M

Test Date :2022-10-11

Test Frequency :2402 MHz

Temp./Humi. :20.4/68

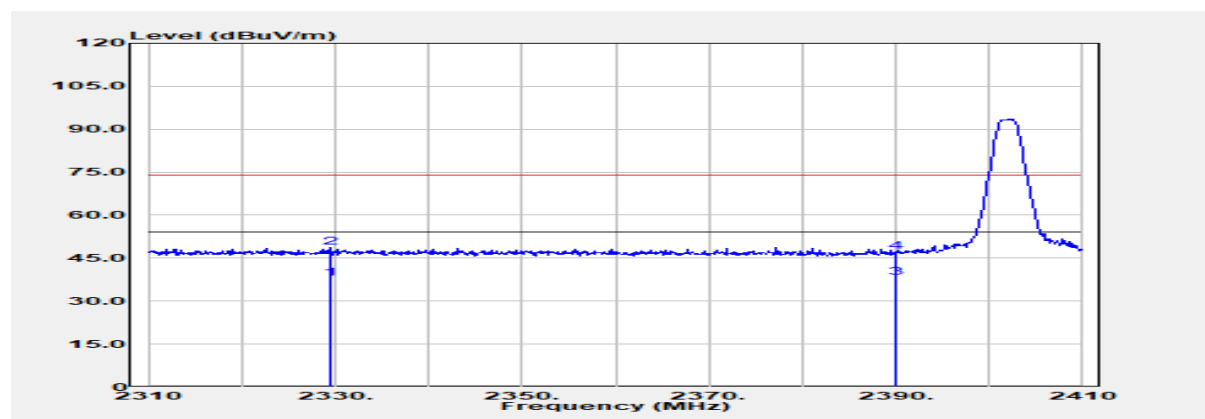
Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Howard Huang

Note :ABR-ANT-DF01



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2329.600	Average	43.36	-5.59	37.77	54.00	-16.23
2329.600	Peak	54.22	-5.59	48.63	74.00	-25.37
2390.000	Average	43.86	-5.79	38.06	54.00	-15.94
2390.000	Peak	52.99	-5.79	47.20	74.00	-26.80

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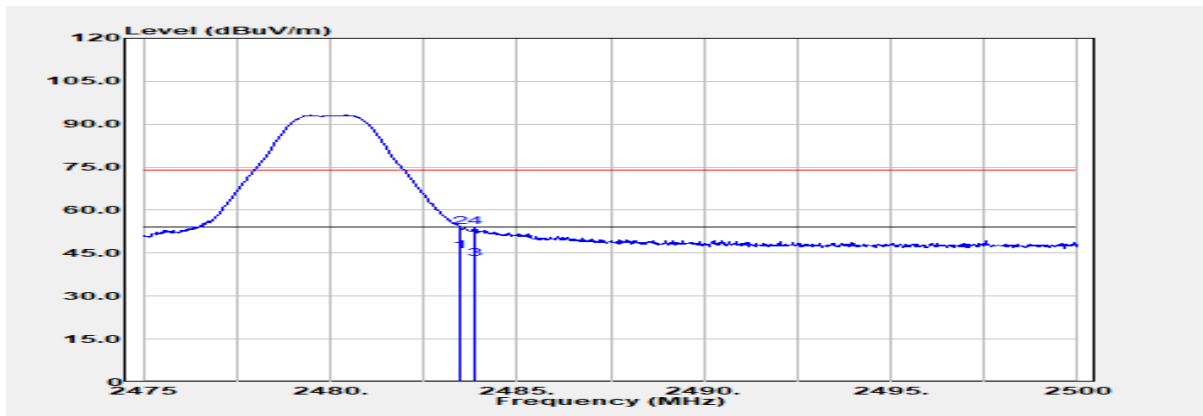
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Report Number :TERF2208001445E2  
 Operation Mode :BLE 2M  
 Test Frequency :2480 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane  
 Note :ABR-ANT-DF01

Test Site :SAC D  
 Test Date :2022-10-11  
 Temp./Humi. :20.4/68  
 Antenna Pol. :Vertical  
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	51.57	-5.91	45.66	54.00	-8.34
2483.500	Peak	59.94	-5.91	54.03	74.00	-19.97
2483.875	Average	48.82	-5.91	42.91	54.00	-11.09
2483.875	Peak	60.07	-5.91	54.16	74.00	-19.84

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Report Number :TERF2208001445E2

Test Site :SAC D

Operation Mode :BLE 2M

Test Date :2022-10-11

Test Frequency :2480 MHz

Temp./Humi. :20.4/68

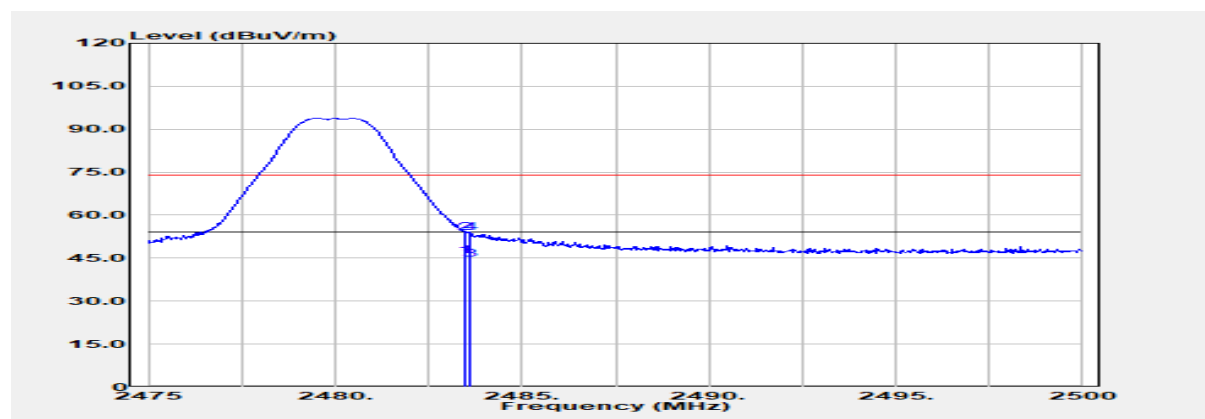
Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Howard Huang

Note :ABR-ANT-DF01



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.500	Average	51.54	-5.91	45.63	54.00	-8.37
2483.500	Peak	59.64	-5.91	53.73	74.00	-20.27
2483.625	Average	50.43	-5.91	44.52	54.00	-9.48
2483.625	Peak	59.70	-5.91	53.79	74.00	-20.21

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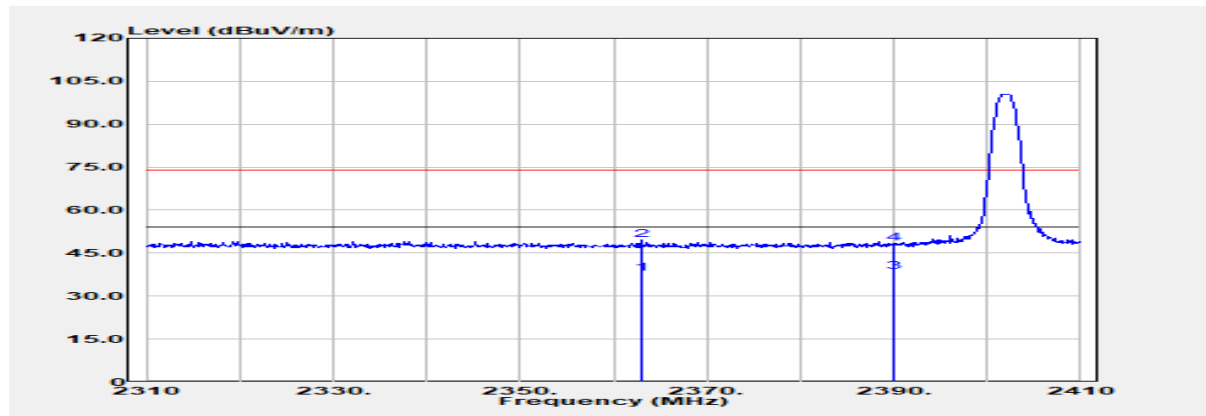
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Report Number :TERF2208001445E2  
 Operation Mode :BLE 1M  
 Test Frequency :2402 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane  
 Note :ASC\_RFANT3216120A5T

Test Site :SAC D  
 Test Date :2022-10-11  
 Temp./Humi. :20.4/68  
 Antenna Pol. :Vertical  
 Engineer :Howard Huang



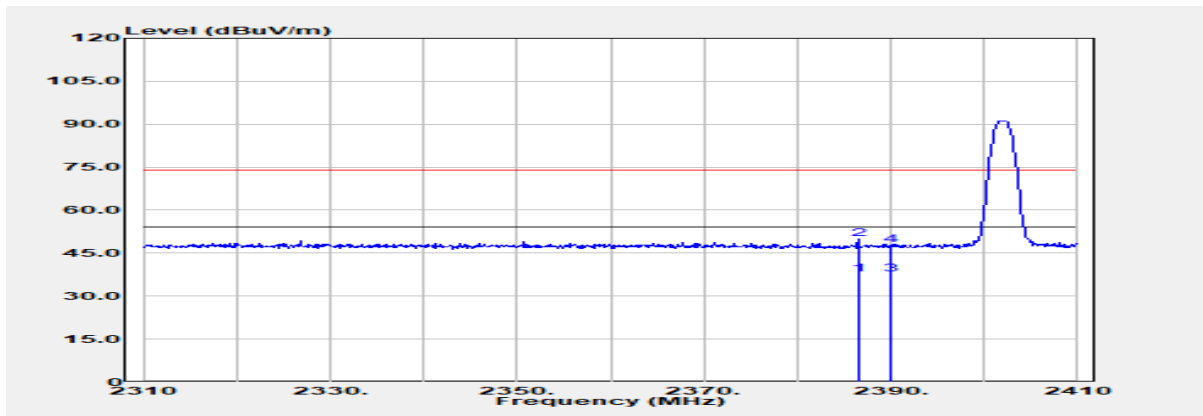
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2363.000	Average	43.49	-5.69	37.81	54.00	-16.19
2363.000	Peak	55.25	-5.69	49.56	74.00	-24.44
2390.000	Average	44.25	-5.79	38.45	54.00	-15.55
2390.000	Peak	54.06	-5.79	48.27	74.00	-25.73

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 1M  
 Test Frequency :2402 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane  
 Note :ASC\_RFANT3216120A5T

Test Site :SAC D  
 Test Date :2022-10-11  
 Temp./Humi. :20.4/68  
 Antenna Pol. :Horizontal  
 Engineer :Howard Huang



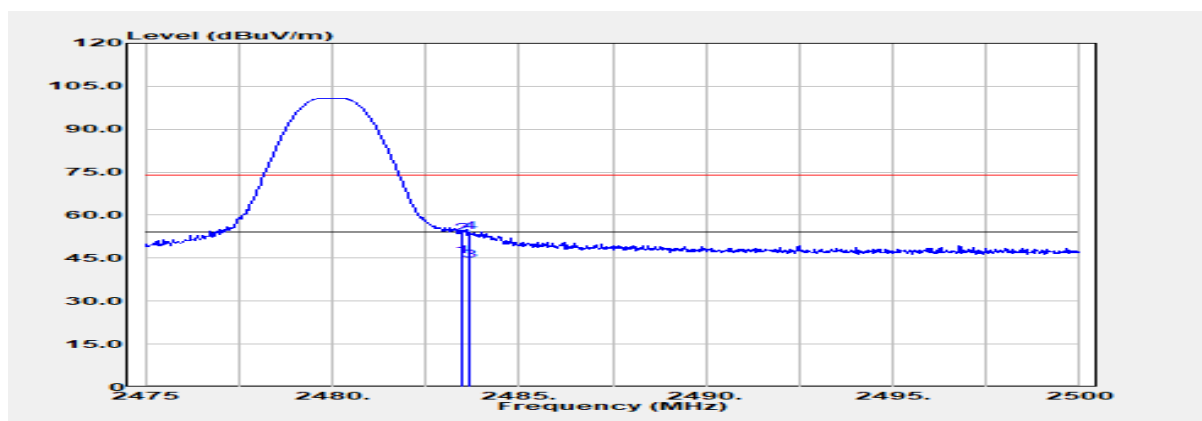
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2386.500	Average	43.45	-5.78	37.68	54.00	-16.32
2386.500	Peak	55.79	-5.78	50.02	74.00	-23.98
2390.000	Average	43.51	-5.79	37.72	54.00	-16.28
2390.000	Peak	53.64	-5.79	47.85	74.00	-26.15

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Report Number :TERF2208001445E2  
Operation Mode :BLE 1M  
Test Frequency :2480 MHz  
Test Mode :Bandedge  
EUT Pol :E2 Plane  
Note :ASC\_RFANT3216120A5T

Test Site :SAC D  
Test Date :2022-10-11  
Temp./Humi. :20.4/68  
Antenna Pol. :Vertical  
Engineer :Howard Huang



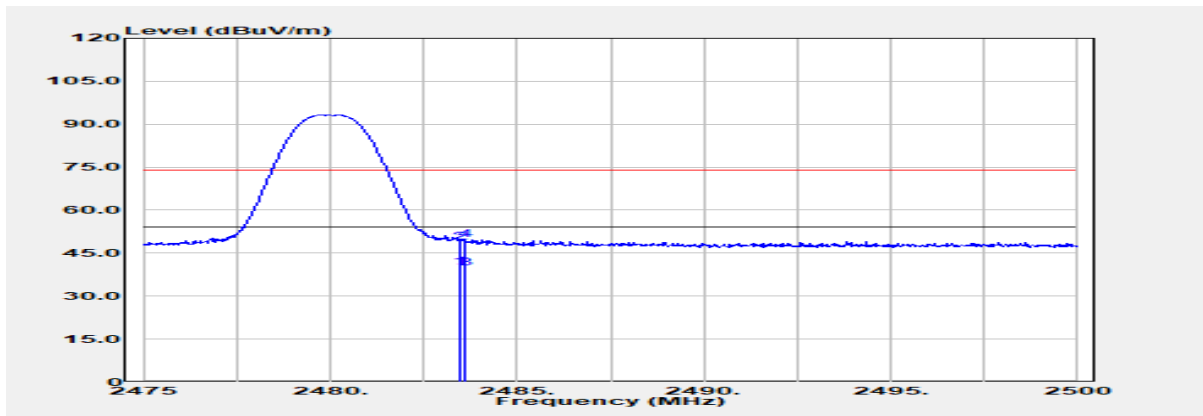
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.500	Average	51.59	-5.91	45.68	54.00	-8.32
2483.500	Peak	59.59	-5.91	53.68	74.00	-20.32
2483.675	Average	50.02	-5.91	44.11	54.00	-9.89
2483.675	Peak	60.04	-5.91	54.13	74.00	-19.87

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Report Number :TERF2208001445E2  
Operation Mode :BLE 1M  
Test Frequency :2480 MHz  
Test Mode :Bandedge  
EUT Pol :E2 Plane  
Note :ASC\_RFANT3216120A5T

Test Site :SAC D  
Test Date :2022-10-11  
Temp./Humi. :20.4/68  
Antenna Pol. :Horizontal  
Engineer :Howard Huang



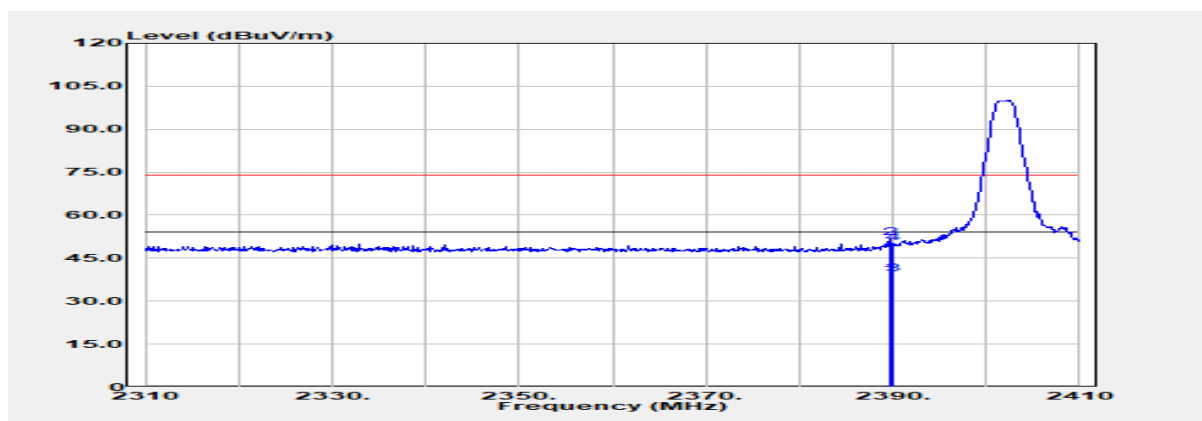
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.500	Average	45.97	-5.91	40.06	54.00	-13.94
2483.500	Peak	54.72	-5.91	48.82	74.00	-25.18
2483.600	Average	45.64	-5.91	39.73	54.00	-14.27
2483.600	Peak	55.56	-5.91	49.65	74.00	-24.35

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 2M  
 Test Frequency :2402 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane  
 Note :ASC\_RFANT3216120A5T

Test Site :SAC D  
 Test Date :2022-10-11  
 Temp./Humi. :20.4/68  
 Antenna Pol. :Vertical  
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2389.800	Average	44.89	-5.79	39.10	54.00	-14.90
2389.800	Peak	57.87	-5.79	52.08	74.00	-21.92
2390.000	Average	45.22	-5.79	39.43	54.00	-14.57
2390.000	Peak	56.04	-5.79	50.25	74.00	-23.75

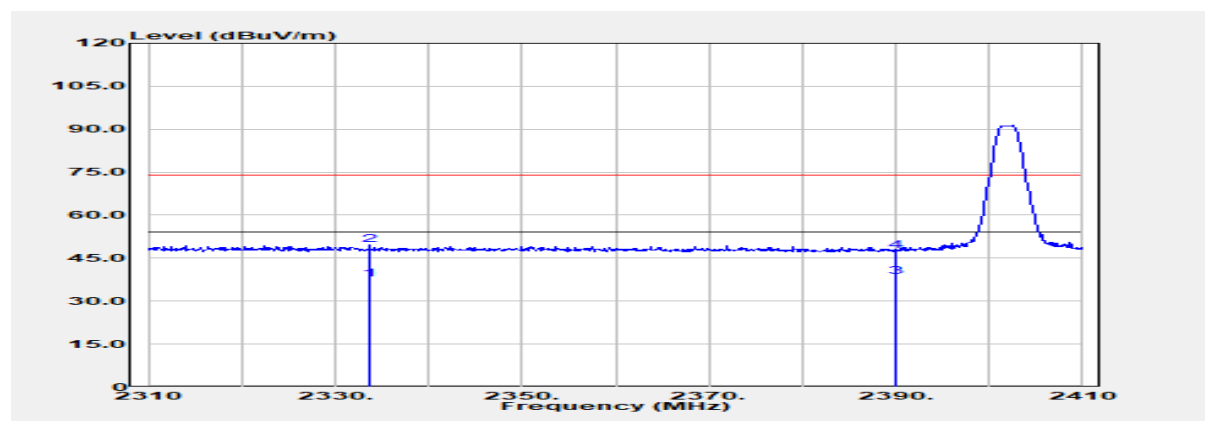
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Report Number :TERF2208001445E2  
 Operation Mode :BLE 2M  
 Test Frequency :2402 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane  
 Note :ASC\_RFANT3216120A5T

Test Site :SAC D  
 Test Date :2022-10-11  
 Temp./Humi. :20.4/68  
 Antenna Pol. :Horizontal  
 Engineer :Howard Huang



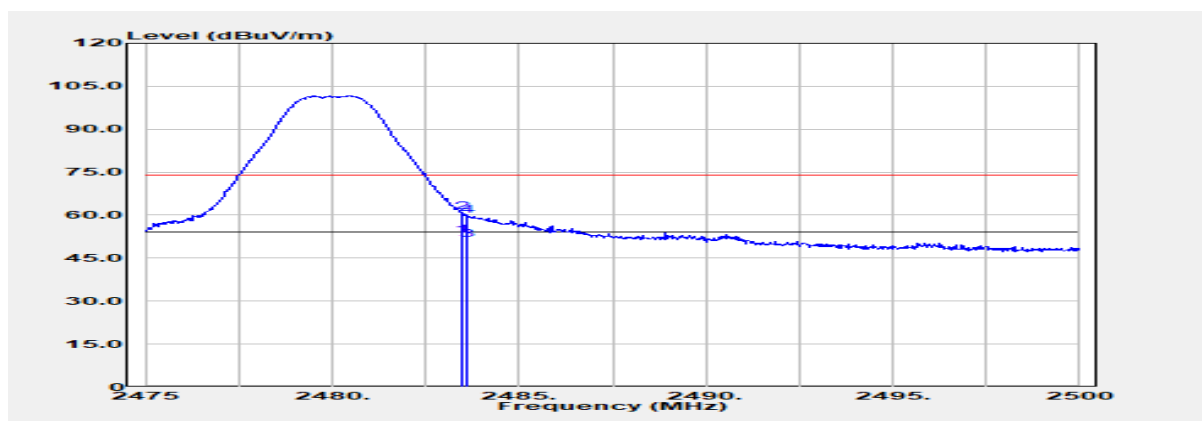
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2333.700	Average	43.17	-5.60	37.57	54.00	-16.43
2333.700	Peak	55.08	-5.60	49.49	74.00	-24.51
2390.000	Average	44.18	-5.79	38.39	54.00	-15.61
2390.000	Peak	53.39	-5.79	47.59	74.00	-26.41

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 2M  
 Test Frequency :2480 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane  
 Note :ASC\_RFANT3216120A5T

Test Site :SAC D  
 Test Date :2022-10-11  
 Temp./Humi. :20.4/68  
 Antenna Pol. :Vertical  
 Engineer :Howard Huang



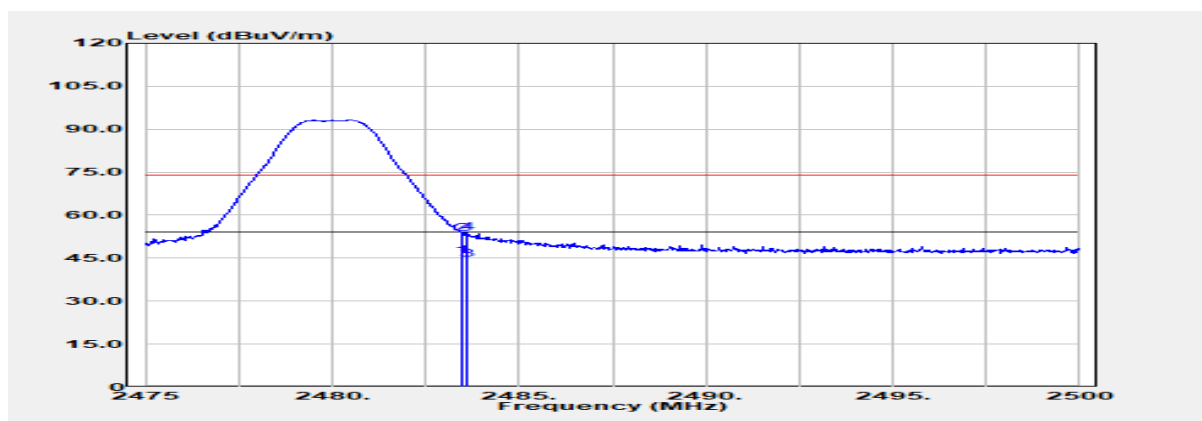
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.500	Average	58.74	-5.91	52.83	54.00	-1.17
2483.500	Peak	66.89	-5.91	60.99	74.00	-13.01
2483.625	Average	57.47	-5.91	51.56	54.00	-2.44
2483.625	Peak	65.90	-5.91	59.99	74.00	-14.01

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Report Number :TERF2208001445E2  
Operation Mode :BLE 2M  
Test Frequency :2480 MHz  
Test Mode :Bandedge  
EUT Pol :E2 Plane  
Note :ASC\_RFANT3216120A5T

Test Site :SAC D  
Test Date :2022-10-11  
Temp./Humi. :20.4/68  
Antenna Pol. :Horizontal  
Engineer :Howard Huang



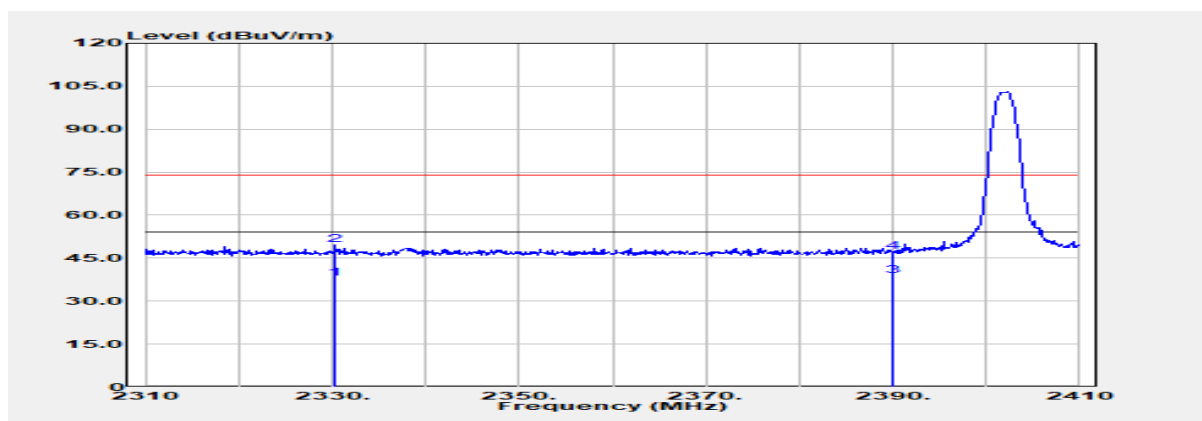
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	51.54	-5.91	45.63	54.00	-8.37
2483.500	Peak	59.57	-5.91	53.66	74.00	-20.34
2483.600	Average	50.56	-5.91	44.65	54.00	-9.35
2483.600	Peak	59.65	-5.91	53.74	74.00	-20.26

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 1M  
 Test Frequency :2402 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane  
 Note :RFDPA131010EMAB301

Test Site :SAC D  
 Test Date :2022-10-11  
 Temp./Humi. :20.4/68  
 Antenna Pol. :Vertical  
 Engineer :Howard Huang



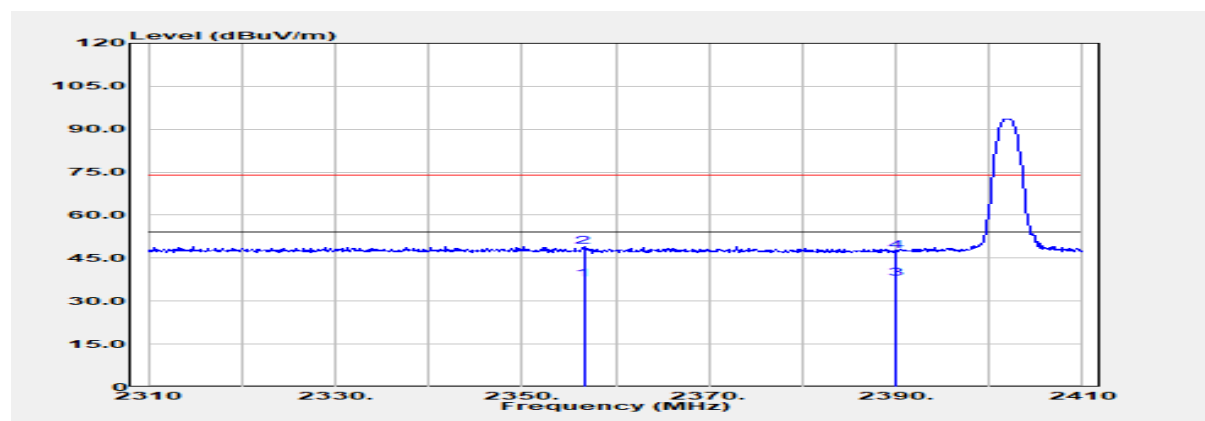
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2330.300	Average	43.43	-5.59	37.84	54.00	-16.16
2330.300	Peak	55.21	-5.59	49.62	74.00	-24.38
2390.000	Average	44.46	-5.79	38.67	54.00	-15.33
2390.000	Peak	52.98	-5.79	47.19	74.00	-26.81

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 1M  
 Test Frequency :2402 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane  
 Note :RFDPA131010EMAB301

Test Site :SAC D  
 Test Date :2022-10-11  
 Temp./Humi. :20.4/68  
 Antenna Pol. :Horizontal  
 Engineer :Howard Huang



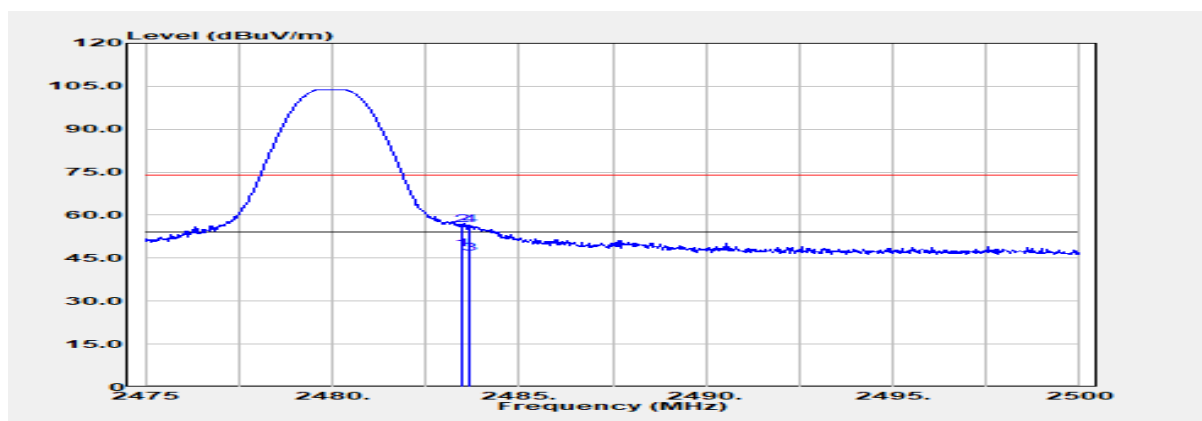
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2356.600	Average	43.30	-5.66	37.64	54.00	-16.36
2356.600	Peak	54.70	-5.66	49.04	74.00	-24.96
2390.000	Average	43.57	-5.79	37.78	54.00	-16.22
2390.000	Peak	53.42	-5.79	47.63	74.00	-26.37

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 1M  
 Test Frequency :2480 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane  
 Note :RFDPA131010EMAB301

Test Site :SAC D  
 Test Date :2022-10-11  
 Temp./Humi. :20.4/68  
 Antenna Pol. :Vertical  
 Engineer :Howard Huang



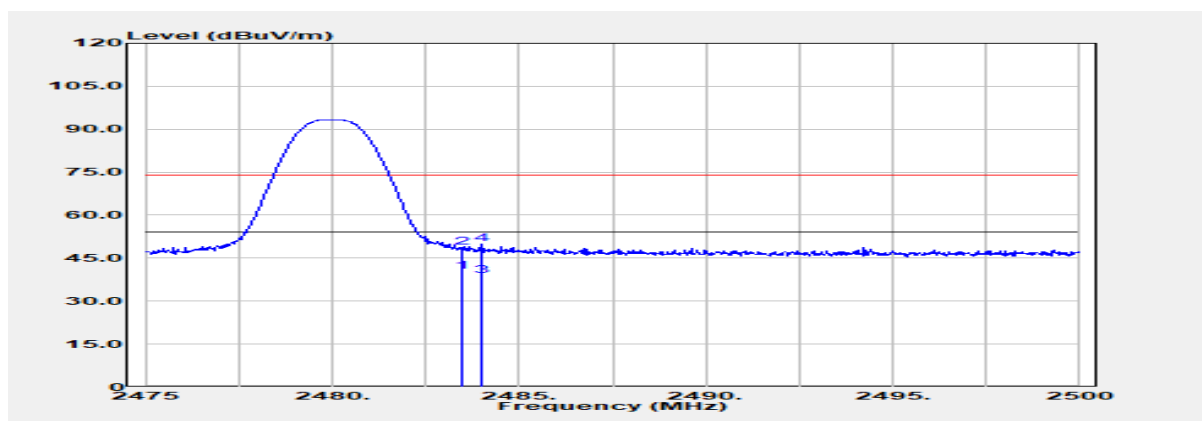
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.500	Average	54.18	-5.91	48.27	54.00	-5.73
2483.500	Peak	62.32	-5.91	56.41	74.00	-17.59
2483.650	Average	52.59	-5.91	46.68	54.00	-7.32
2483.650	Peak	62.60	-5.91	56.69	74.00	-17.31

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 1M  
 Test Frequency :2480 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane  
 Note :RFDPA131010EMAB301

Test Site :SAC D  
 Test Date :2022-10-11  
 Temp./Humi. :20.4/68  
 Antenna Pol. :Horizontal  
 Engineer :Howard Huang



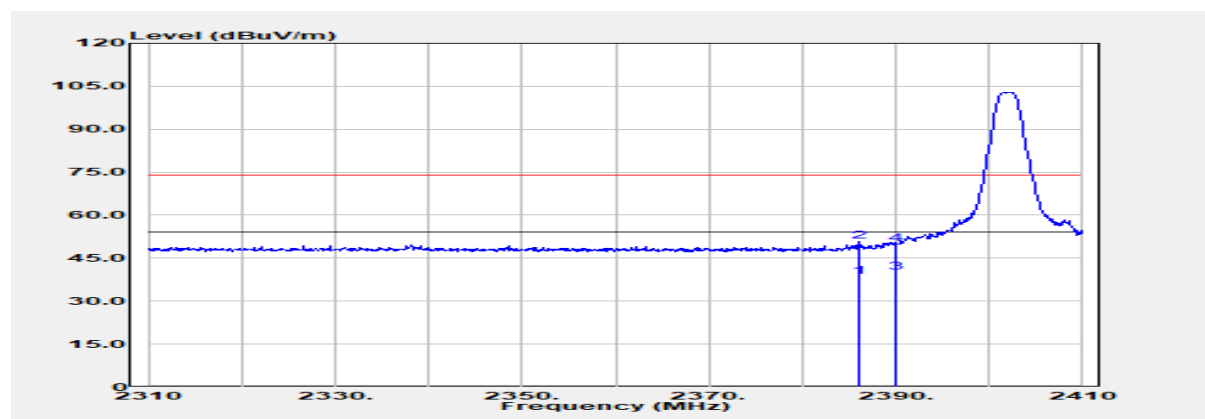
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.500	Average	46.06	-5.91	40.16	54.00	-13.84
2483.500	Peak	54.68	-5.91	48.77	74.00	-25.23
2483.975	Average	44.60	-5.91	38.69	54.00	-15.31
2483.975	Peak	55.71	-5.91	49.80	74.00	-24.20

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Report Number :TERF2208001445E2  
Operation Mode :BLE 2M  
Test Frequency :2402 MHz  
Test Mode :Bandedge  
EUT Pol :E2 Plane  
Note :RFDPA131010EMAB301

Test Site :SAC D  
Test Date :2022-10-11  
Temp./Humi. :20.4/68  
Antenna Pol. :Vertical  
Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2386.100	Average	44.27	-5.78	38.49	54.00	-15.51
2386.100	Peak	56.47	-5.78	50.69	74.00	-23.31
2390.000	Average	45.68	-5.79	39.89	54.00	-14.11
2390.000	Peak	55.58	-5.79	49.79	74.00	-24.21

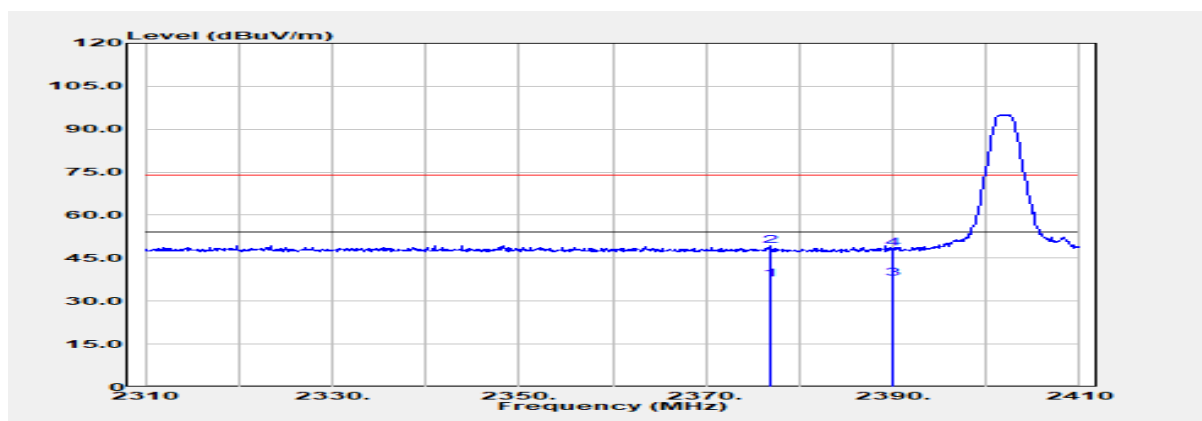
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Report Number :TERF2208001445E2  
 Operation Mode :BLE 2M  
 Test Frequency :2402 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane  
 Note :RFDPA131010EMAB301

Test Site :SAC D  
 Test Date :2022-10-11  
 Temp./Humi. :20.4/68  
 Antenna Pol. :Horizontal  
 Engineer :Howard Huang



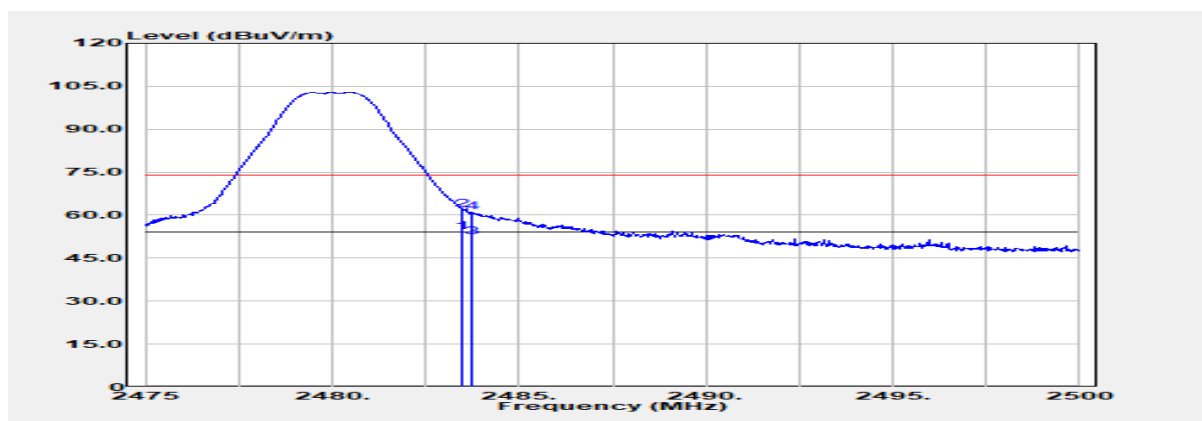
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2377.000	Average	43.44	-5.74	37.69	54.00	-16.31
2377.000	Peak	55.06	-5.74	49.32	74.00	-24.68
2390.000	Average	43.78	-5.79	37.99	54.00	-16.01
2390.000	Peak	54.17	-5.79	48.38	74.00	-25.62

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 2M  
 Test Frequency :2480 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane  
 Note :RFDPA131010EMAB301

Test Site :SAC D  
 Test Date :2022-10-11  
 Temp./Humi. :20.4/68  
 Antenna Pol. :Vertical  
 Engineer :Howard Huang



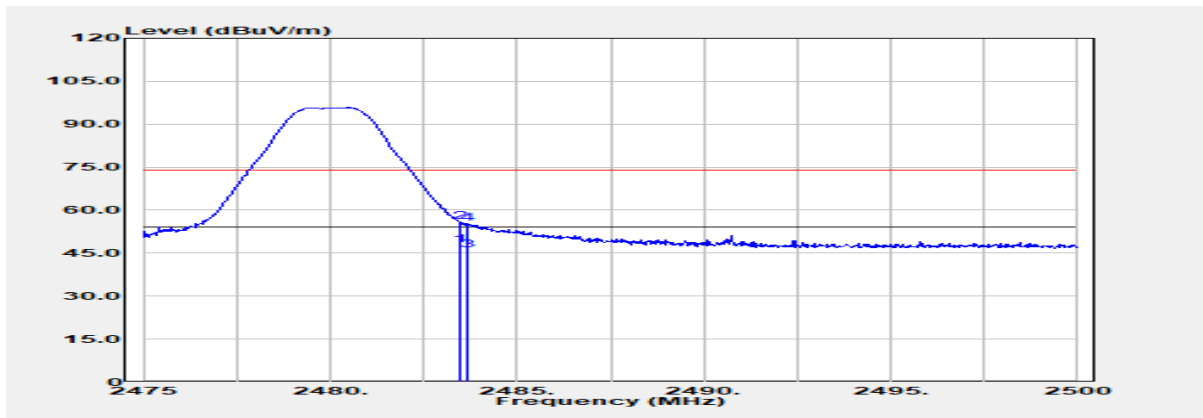
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	60.16	-5.91	54.26	54.00	0.26
2483.500	Peak	68.01	-5.91	62.10	74.00	-11.90
2483.725	Average	58.11	-5.91	52.20	54.00	-1.80
2483.725	Peak	66.98	-5.91	61.07	74.00	-12.93

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Report Number :TERF2208001445E2  
Operation Mode :BLE 2M  
Test Frequency :2480 MHz  
Test Mode :Bandedge  
EUT Pol :E2 Plane  
Note :RFDPA131010EMAB301

Test Site :SAC D  
Test Date :2022-10-11  
Temp./Humi. :20.4/68  
Antenna Pol. :Horizontal  
Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.500	Average	53.71	-5.91	47.80	54.00	-6.20
2483.500	Peak	61.84	-5.91	55.93	74.00	-18.07
2483.700	Average	51.91	-5.91	46.00	54.00	-8.00
2483.700	Peak	61.26	-5.91	55.35	74.00	-18.65

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## Spot check

Report Number :TERF2208001445E2

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2022-10-18

Test Frequency :2402 MHz

Temp./Humi. :22.7/65

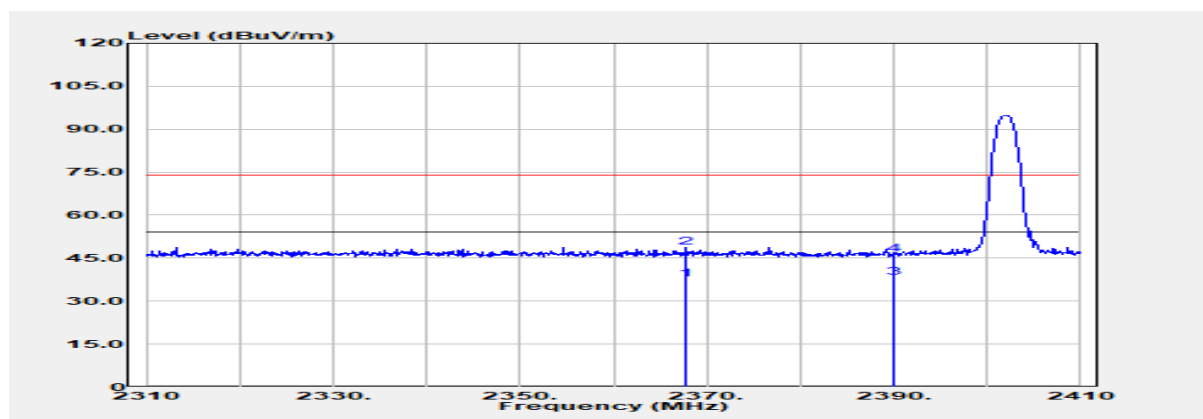
Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Howard Huang

Note :ABR-ANT-DF01



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2367.800	Average	43.22	-5.71	37.51	54.00	-16.49
2367.800	Peak	54.38	-5.71	48.67	74.00	-25.33
2390.000	Average	44.00	-5.79	38.21	54.00	-15.79
2390.000	Peak	52.12	-5.79	46.33	74.00	-27.67

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台灣檢驗科技股份有限公司

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Report Number :TERF2208001445E2

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2022-10-18

Test Frequency :2402 MHz

Temp./Humi. :22.7/65

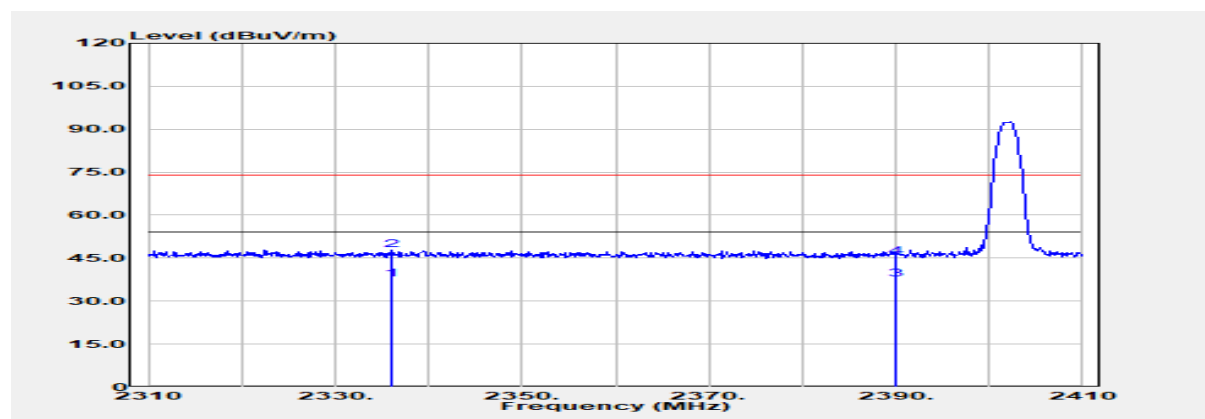
Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Howard Huang

Note :ABR-ANT-DF01



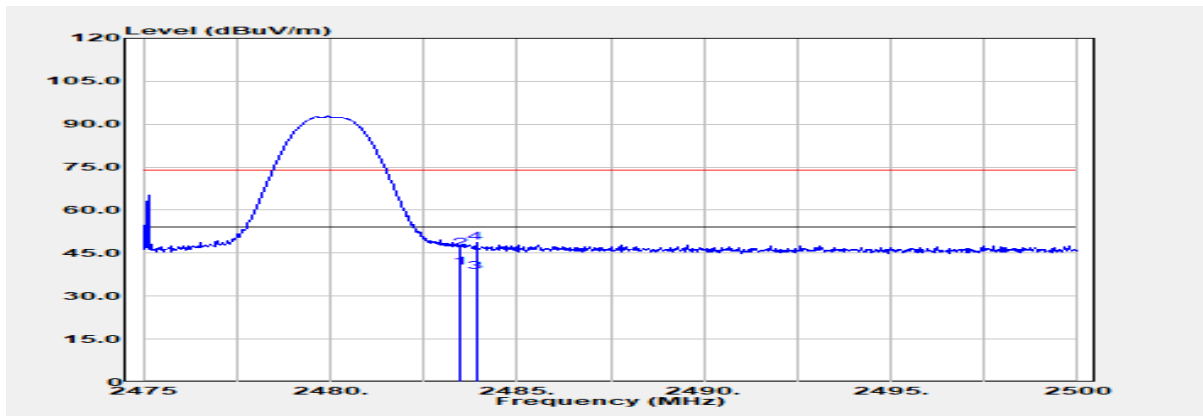
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2336.100	Average	43.20	-5.60	37.60	54.00	-16.40
2336.100	Peak	53.38	-5.60	47.78	74.00	-26.22
2390.000	Average	43.43	-5.79	37.64	54.00	-16.36
2390.000	Peak	51.13	-5.79	45.34	74.00	-28.66

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Report Number :TERF2208001445E2  
Operation Mode :BLE 1M  
Test Frequency :2480 MHz  
Test Mode :Bandedge  
EUT Pol :E2 Plane  
Note :ABR-ANT-DF01

Test Site :SAC D  
Test Date :2022-10-18  
Temp./Humi. :22.7/65  
Antenna Pol. :Vertical  
Engineer :Howard Huang



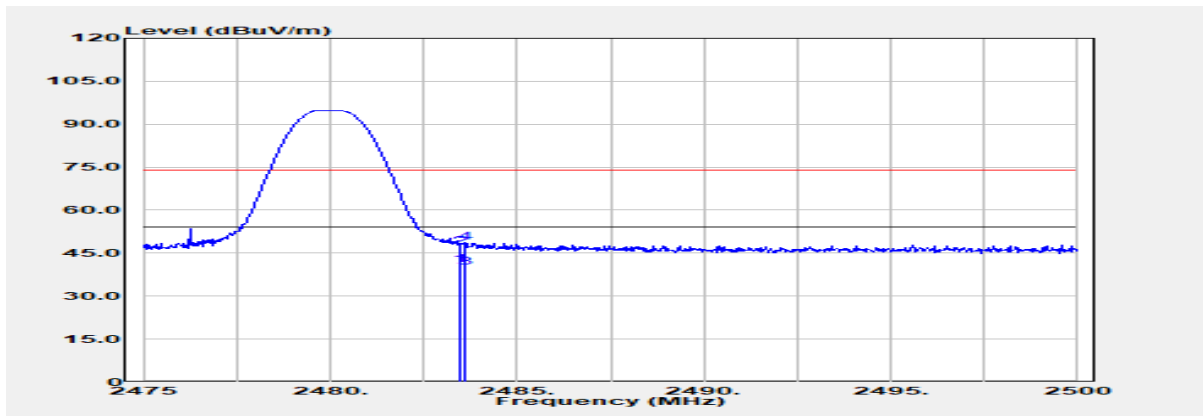
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	45.91	-5.91	40.00	54.00	-14.00
2483.500	Peak	52.55	-5.91	46.64	74.00	-27.36
2483.900	Average	44.36	-5.91	38.45	54.00	-15.55
2483.900	Peak	54.60	-5.91	48.69	74.00	-25.31

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 1M  
 Test Frequency :2480 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane  
 Note :ABR-ANT-DF01

Test Site :SAC D  
 Test Date :2022-10-18  
 Temp./Humi. :22.7/65  
 Antenna Pol. :Horizontal  
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	46.90	-5.91	40.99	54.00	-13.01
2483.500	Peak	53.05	-5.91	47.14	74.00	-26.86
2483.625	Average	46.05	-5.91	40.14	54.00	-13.86
2483.625	Peak	54.61	-5.91	48.70	74.00	-25.30

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Report Number :TERF2208001445E2

Test Site :SAC D

Operation Mode :BLE 2M

Test Date :2022-10-18

Test Frequency :2402 MHz

Temp./Humi. :22.7/65

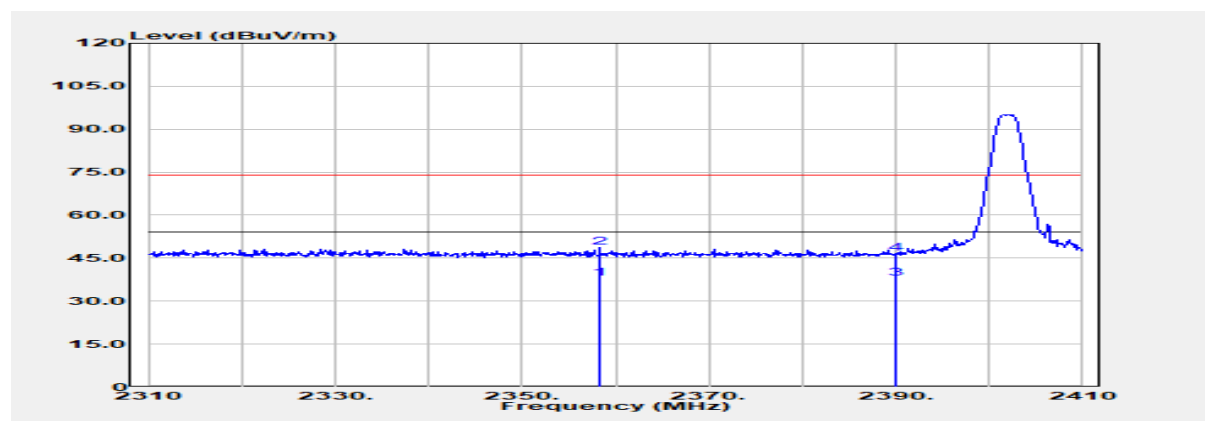
Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Howard Huang

Note :ABR-ANT-DF01



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2358.300	Average	43.69	-5.67	38.02	54.00	-15.98
2358.300	Peak	54.28	-5.67	48.61	74.00	-25.39
2390.000	Average	43.79	-5.79	38.00	54.00	-16.00
2390.000	Peak	52.33	-5.79	46.54	74.00	-27.46

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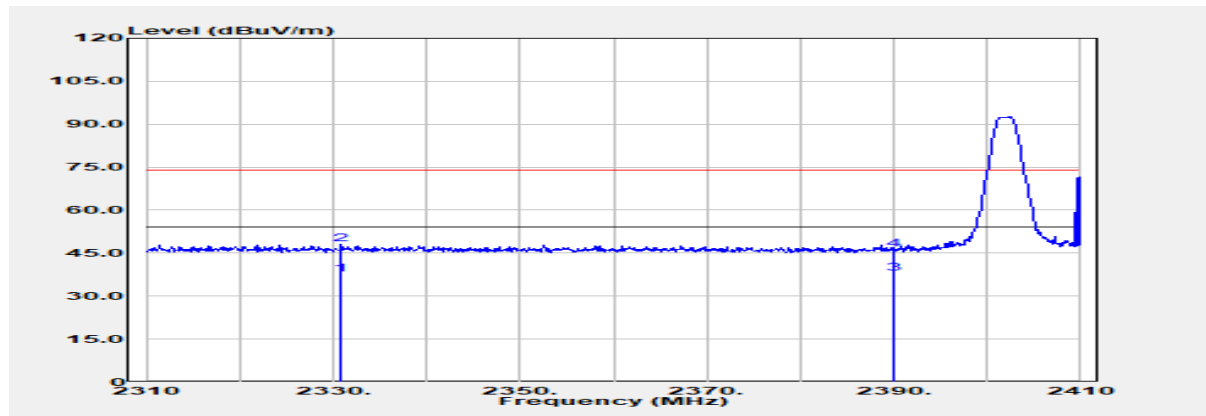
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Report Number :TERF2208001445E2  
 Operation Mode :BLE 2M  
 Test Frequency :2402 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane  
 Note :ABR-ANT-DF01

Test Site :SAC D  
 Test Date :2022-10-18  
 Temp./Humi. :22.7/65  
 Antenna Pol. :Horizontal  
 Engineer :Howard Huang



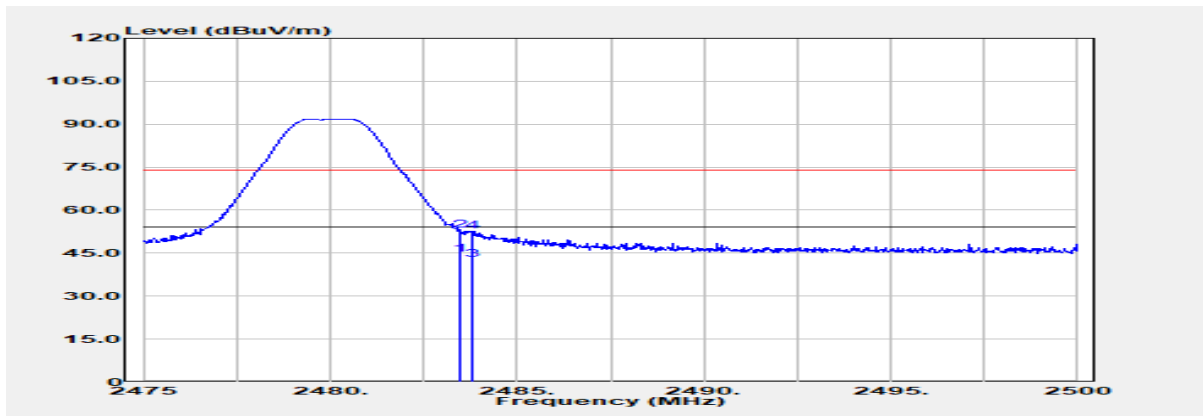
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2330.900	Average	43.12	-5.59	37.53	54.00	-16.47
2330.900	Peak	53.84	-5.59	48.25	74.00	-25.75
2390.000	Average	43.55	-5.79	37.76	54.00	-16.24
2390.000	Peak	52.16	-5.79	46.37	74.00	-27.63

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Report Number :TERF2208001445E2  
Operation Mode :BLE 2M  
Test Frequency :2480 MHz  
Test Mode :Bandedge  
EUT Pol :E2 Plane  
Note :ABR-ANT-DF01

Test Site :SAC D  
Test Date :2022-10-18  
Temp./Humi. :22.7/65  
Antenna Pol. :Vertical  
Engineer :Howard Huang



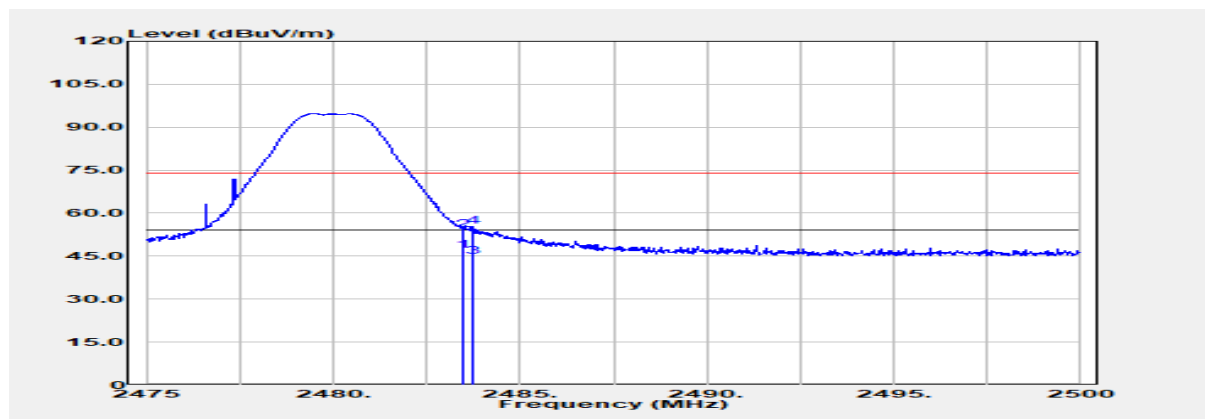
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	50.50	-5.91	44.59	54.00	-9.41
2483.500	Peak	58.83	-5.91	52.93	74.00	-21.07
2483.800	Average	48.68	-5.91	42.77	54.00	-11.23
2483.800	Peak	58.62	-5.91	52.71	74.00	-21.29

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 2M  
 Test Frequency :2480 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane  
 Note :ABR-ANT-DF01

Test Site :SAC D  
 Test Date :2022-10-18  
 Temp./Humi. :22.7/65  
 Antenna Pol. :Horizontal  
 Engineer :Howard Huang



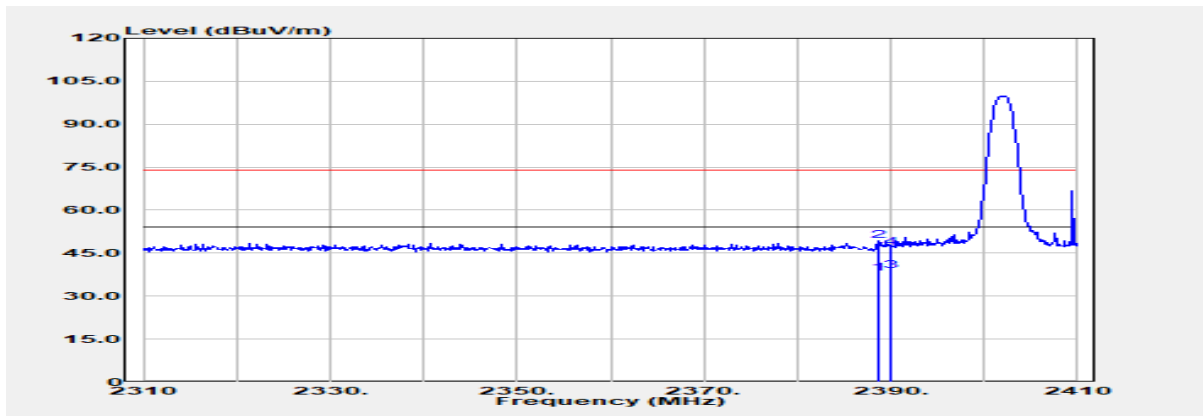
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	52.68	-5.91	46.77	54.00	-7.23
2483.500	Peak	59.95	-5.91	54.04	74.00	-19.96
2483.750	Average	50.82	-5.91	44.91	54.00	-9.09
2483.750	Peak	61.27	-5.91	55.36	74.00	-18.64

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Report Number :TERF2208001445E2  
Operation Mode :BLE 1M  
Test Frequency :2402 MHz  
Test Mode :Bandedge  
EUT Pol :E2 Plane  
Note :ASC\_RFANT3216120A5T

Test Site :SAC D  
Test Date :2022-10-18  
Temp./Humi. :22.7/65  
Antenna Pol. :Vertical  
Engineer :Howard Huang



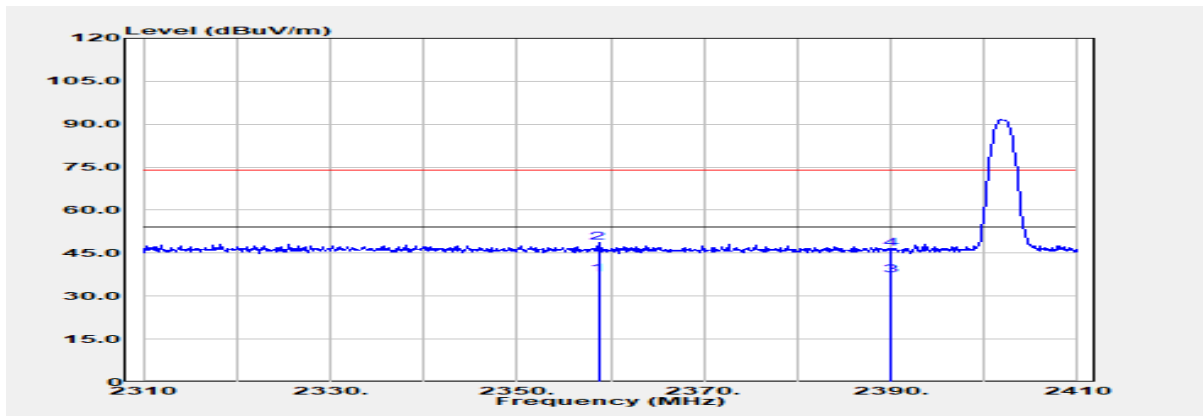
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2388.700	Average	43.82	-5.79	38.03	54.00	-15.97
2388.700	Peak	55.14	-5.79	49.35	74.00	-24.65
2390.000	Average	44.53	-5.79	38.74	54.00	-15.26
2390.000	Peak	52.86	-5.79	47.06	74.00	-26.94

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 1M  
 Test Frequency :2402 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane  
 Note :ASC\_RFANT3216120A5T

Test Site :SAC D  
 Test Date :2022-10-18  
 Temp./Humi. :22.7/65  
 Antenna Pol. :Horizontal  
 Engineer :Howard Huang



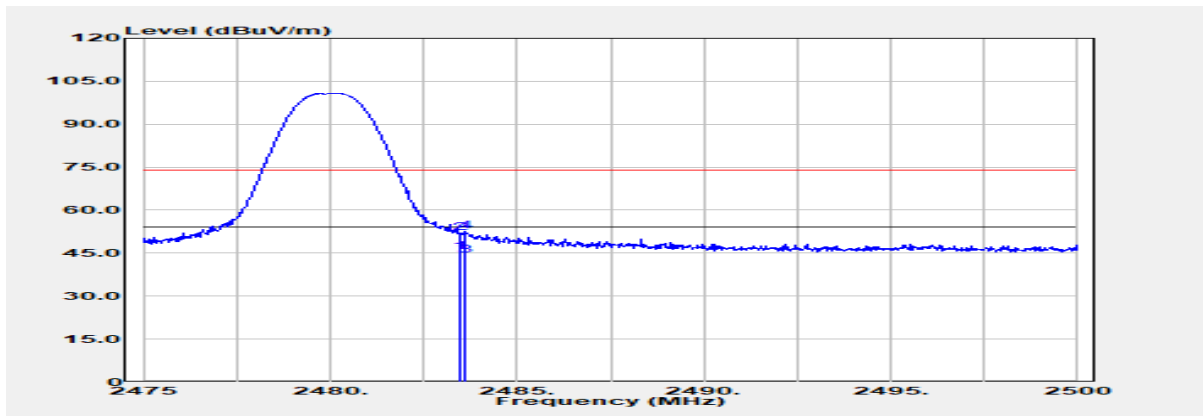
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2358.700	Average	43.29	-5.67	37.62	54.00	-16.38
2358.700	Peak	54.27	-5.67	48.60	74.00	-25.40
2390.000	Average	43.16	-5.79	37.37	54.00	-16.63
2390.000	Peak	52.28	-5.79	46.49	74.00	-27.51

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 1M  
 Test Frequency :2480 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane  
 Note :ASC\_RFANT3216120A5T

Test Site :SAC D  
 Test Date :2022-10-18  
 Temp./Humi. :22.7/65  
 Antenna Pol. :Vertical  
 Engineer :Howard Huang



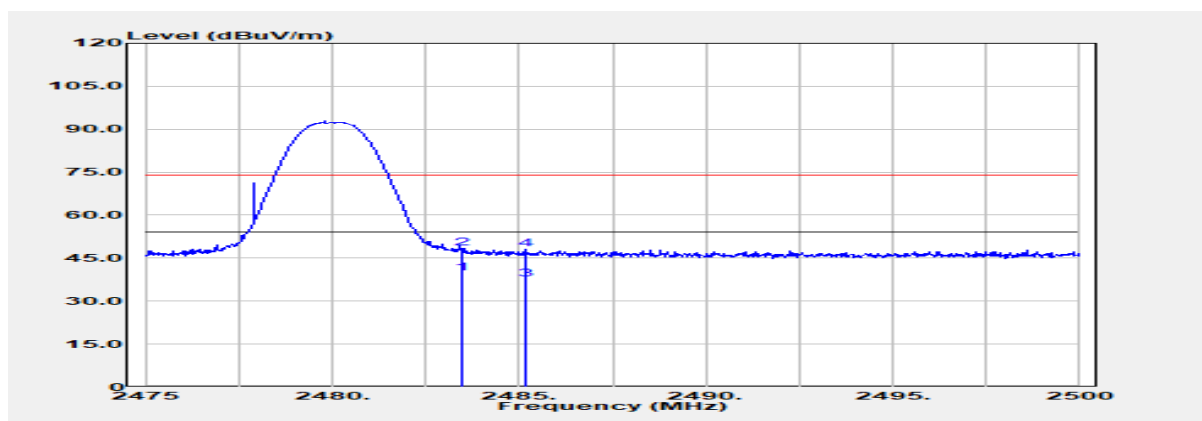
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	51.27	-5.91	45.36	54.00	-8.64
2483.500	Peak	57.93	-5.91	52.02	74.00	-21.98
2483.600	Average	50.11	-5.91	44.20	54.00	-9.80
2483.600	Peak	58.54	-5.91	52.63	74.00	-21.37

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 1M  
 Test Frequency :2480 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane  
 Note :ASC\_RFANT3216120A5T

Test Site :SAC D  
 Test Date :2022-10-18  
 Temp./Humi. :22.7/65  
 Antenna Pol. :Horizontal  
 Engineer :Howard Huang



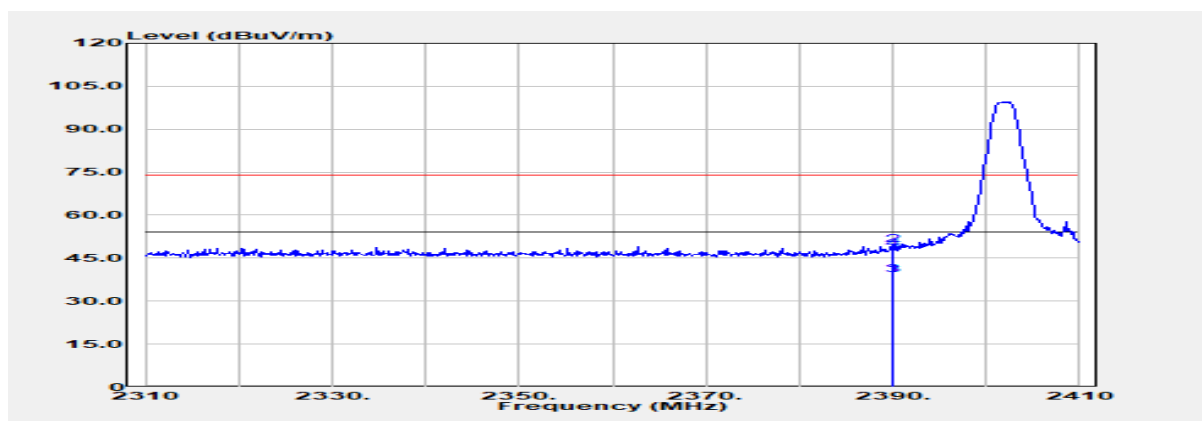
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	45.65	-5.91	39.74	54.00	-14.26
2483.500	Peak	54.27	-5.91	48.37	74.00	-25.63
2485.200	Average	43.62	-5.92	37.70	54.00	-16.30
2485.200	Peak	54.01	-5.92	48.10	74.00	-25.90

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Report Number :TERF2208001445E2  
Operation Mode :BLE 2M  
Test Frequency :2402 MHz  
Test Mode :Bandedge  
EUT Pol :E2 Plane  
Note :ASC\_RFANT3216120A5T

Test Site :SAC D  
Test Date :2022-10-18  
Temp./Humi. :22.7/65  
Antenna Pol. :Vertical  
Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2389.900	Average	45.01	-5.79	39.22	54.00	-14.78
2389.900	Peak	55.45	-5.79	49.66	74.00	-24.34
2390.000	Average	45.01	-5.79	39.22	54.00	-14.78
2390.000	Peak	53.93	-5.79	48.14	74.00	-25.86

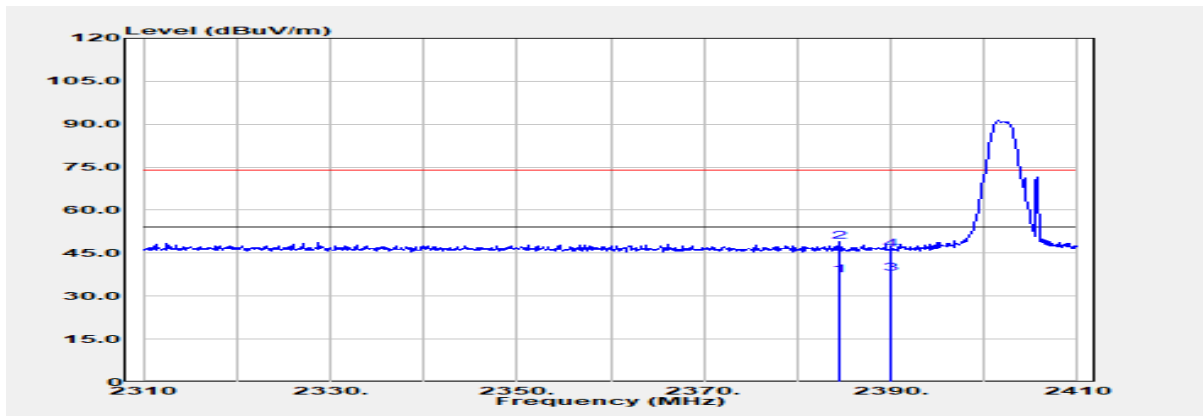
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Report Number :TERF2208001445E2  
 Operation Mode :BLE 2M  
 Test Frequency :2402 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane  
 Note :ASC\_RFANT3216120A5T

Test Site :SAC D  
 Test Date :2022-10-18  
 Temp./Humi. :22.7/65  
 Antenna Pol. :Horizontal  
 Engineer :Howard Huang



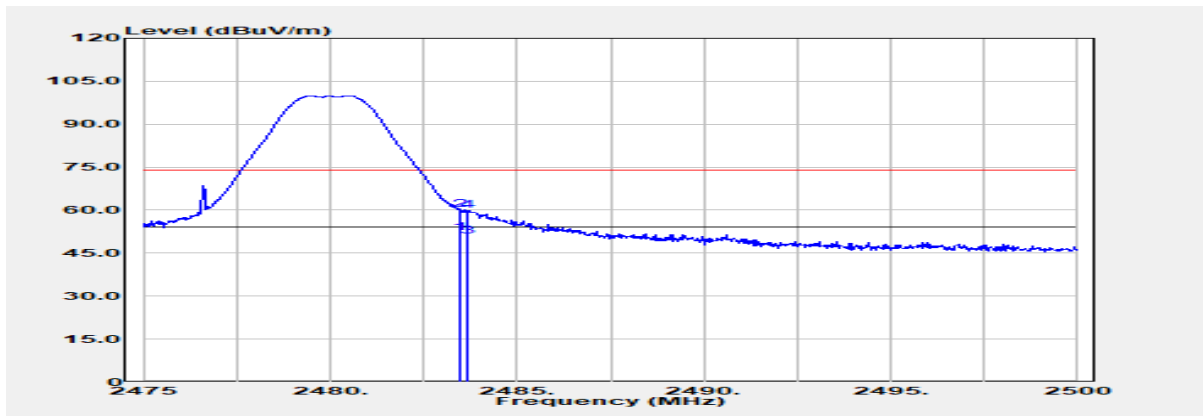
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2384.400	Average	43.20	-5.77	37.43	54.00	-16.57
2384.400	Peak	54.66	-5.77	48.89	74.00	-25.11
2390.000	Average	43.71	-5.79	37.92	54.00	-16.08
2390.000	Peak	51.98	-5.79	46.19	74.00	-27.81

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 2M  
 Test Frequency :2480 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane  
 Note :ASC\_RFANT3216120A5T

Test Site :SAC D  
 Test Date :2022-10-18  
 Temp./Humi. :22.7/65  
 Antenna Pol. :Vertical  
 Engineer :Howard Huang



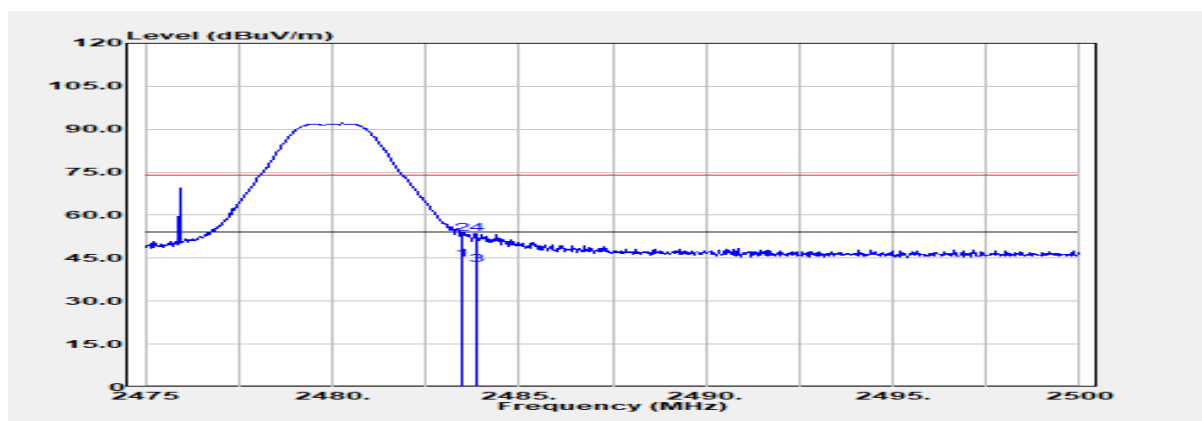
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	57.92	-5.91	52.01	54.00	-1.99
2483.500	Peak	65.96	-5.91	60.06	74.00	-13.94
2483.650	Average	56.59	-5.91	50.68	54.00	-3.32
2483.650	Peak	65.73	-5.91	59.82	74.00	-14.18

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Report Number :TERF2208001445E2  
Operation Mode :BLE 2M  
Test Frequency :2480 MHz  
Test Mode :Bandedge  
EUT Pol :E2 Plane  
Note :ASC\_RFANT3216120A5T

Test Site :SAC D  
Test Date :2022-10-18  
Temp./Humi. :22.7/65  
Antenna Pol. :Horizontal  
Engineer :Howard Huang



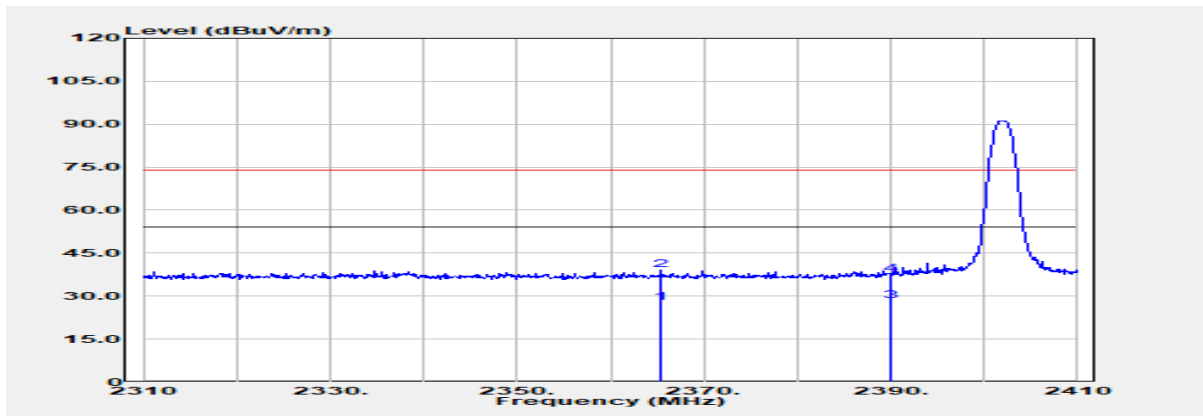
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	50.57	-5.91	44.66	54.00	-9.34
2483.500	Peak	59.50	-5.91	53.59	74.00	-20.41
2483.875	Average	48.74	-5.91	42.83	54.00	-11.17
2483.875	Peak	59.48	-5.91	53.57	74.00	-20.43

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 1M  
 Test Frequency :2402 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane  
 Note :RFDPA131010EMAB301

Test Site :SAC D  
 Test Date :2022-10-18  
 Temp./Humi. :22.7/65  
 Antenna Pol. :Vertical  
 Engineer :Howard Huang



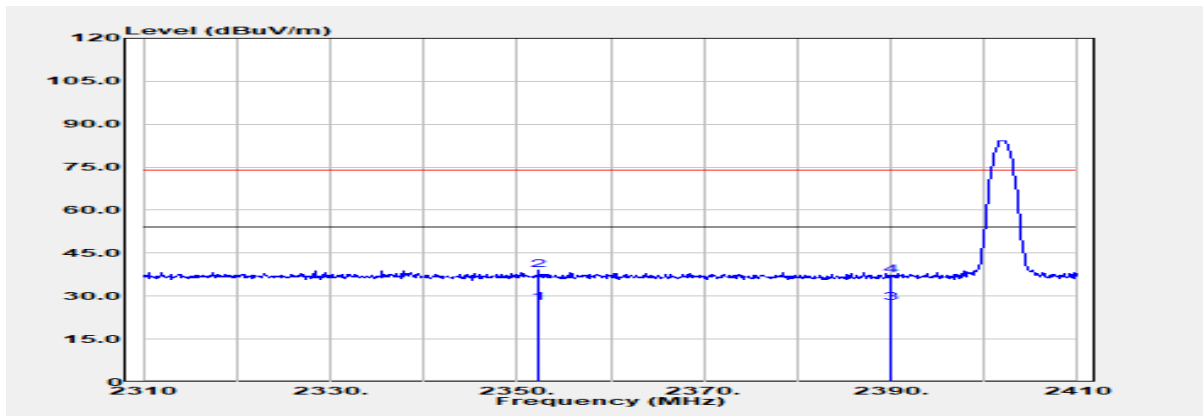
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2365.500	Average	33.52	-5.70	27.82	54.00	-26.18
2365.500	Peak	44.65	-5.70	38.95	74.00	-35.05
2390.000	Average	33.99	-5.79	28.20	54.00	-25.80
2390.000	Peak	43.40	-5.79	37.60	74.00	-36.40

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Report Number :TERF2208001445E2  
Operation Mode :BLE 1M  
Test Frequency :2402 MHz  
Test Mode :Bandedge  
EUT Pol :E2 Plane  
Note :RFDPA131010EMAB301

Test Site :SAC D  
Test Date :2022-10-18  
Temp./Humi. :22.7/65  
Antenna Pol. :Horizontal  
Engineer :Howard Huang



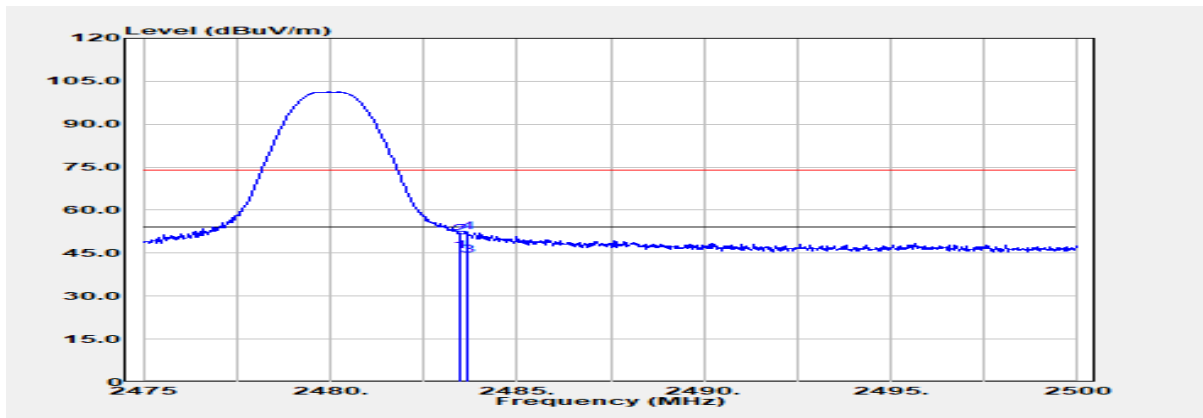
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2352.400	Average	33.29	-5.65	27.64	54.00	-26.36
2352.400	Peak	44.76	-5.65	39.11	74.00	-34.89
2390.000	Average	33.45	-5.79	27.66	54.00	-26.34
2390.000	Peak	42.96	-5.79	37.17	74.00	-36.83

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Report Number :TERF2208001445E2  
Operation Mode :BLE 1M  
Test Frequency :2480 MHz  
Test Mode :Bandedge  
EUT Pol :E2 Plane  
Note :RFDPA131010EMAB301

Test Site :SAC D  
Test Date :2022-10-18  
Temp./Humi. :22.7/65  
Antenna Pol. :Vertical  
Engineer :Howard Huang



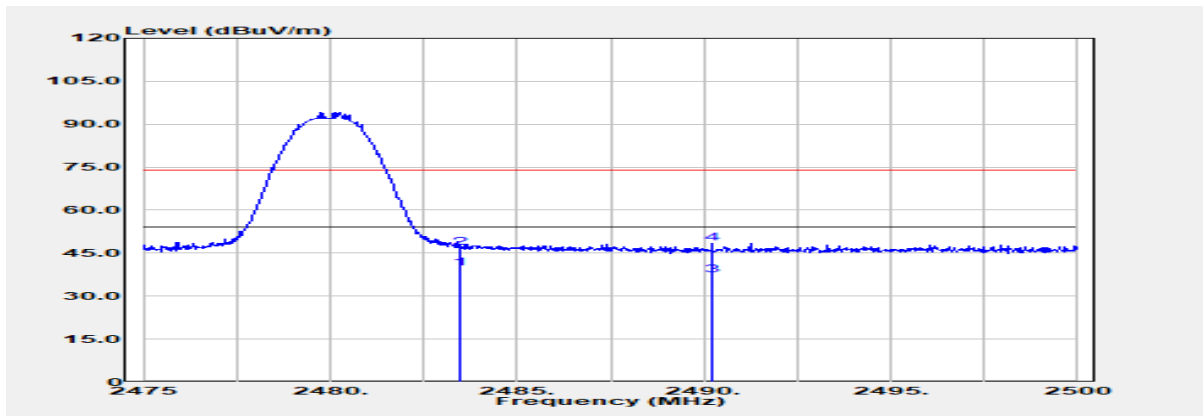
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	51.71	-5.91	45.80	54.00	-8.20
2483.500	Peak	57.38	-5.91	51.48	74.00	-22.52
2483.675	Average	50.08	-5.91	44.17	54.00	-9.83
2483.675	Peak	58.37	-5.91	52.46	74.00	-21.54

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Report Number :TERF2208001445E2  
Operation Mode :BLE 1M  
Test Frequency :2480 MHz  
Test Mode :Bandedge  
EUT Pol :E2 Plane  
Note :RFDPA131010EMAB301

Test Site :SAC D  
Test Date :2022-10-18  
Temp./Humi. :22.7/65  
Antenna Pol. :Horizontal  
Engineer :Howard Huang



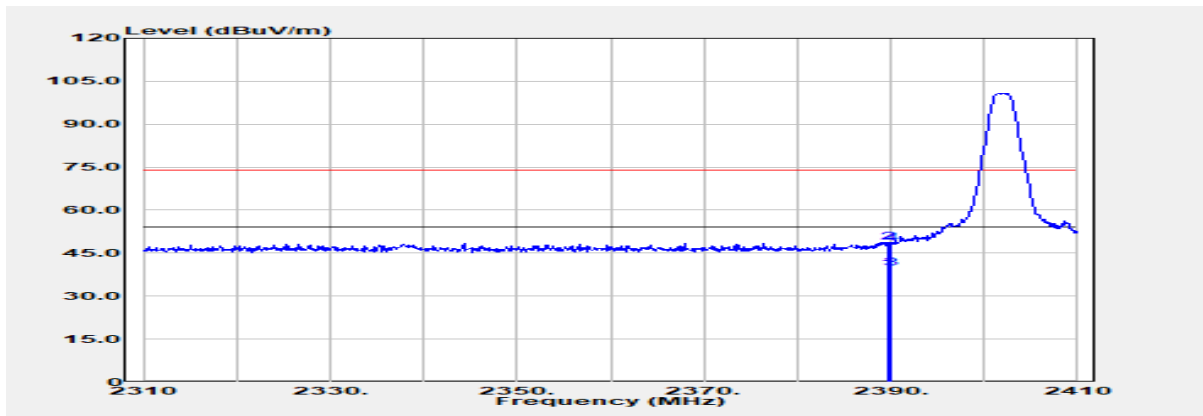
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.500	Average	45.70	-5.91	39.79	54.00	-14.21
2483.500	Peak	52.93	-5.91	47.02	74.00	-26.98
2490.225	Average	43.35	-5.94	37.41	54.00	-16.59
2490.225	Peak	54.36	-5.94	48.42	74.00	-25.58

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 2M  
 Test Frequency :2402 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane  
 Note :RFDPA131010EMAB301

Test Site :SAC D  
 Test Date :2022-10-18  
 Temp./Humi. :22.7/65  
 Antenna Pol. :Vertical  
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2389.800	Average	45.16	-5.79	39.37	54.00	-14.63
2389.800	Peak	54.61	-5.79	48.82	74.00	-25.18
2390.000	Average	45.36	-5.79	39.57	54.00	-14.43
2390.000	Peak	54.23	-5.79	48.44	74.00	-25.56

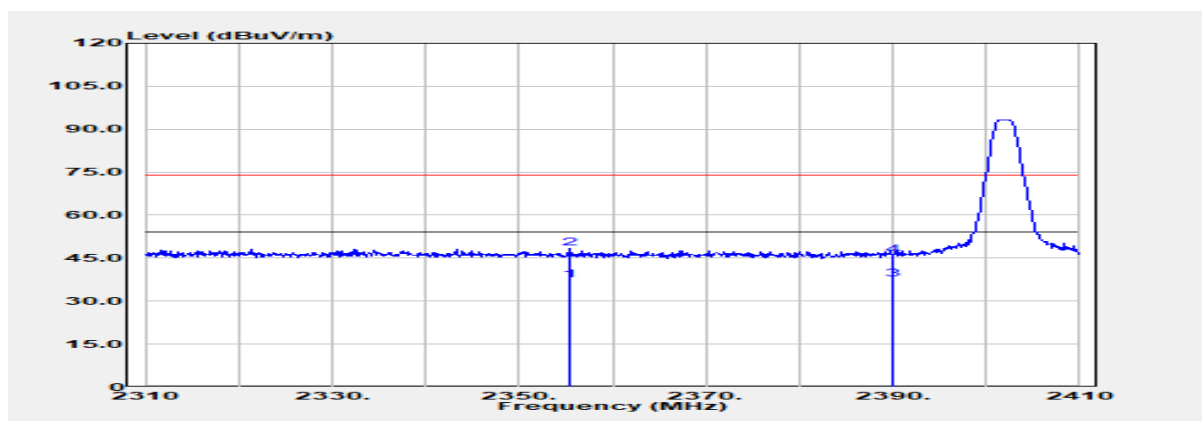
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Report Number :TERF2208001445E2  
 Operation Mode :BLE 2M  
 Test Frequency :2402 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane  
 Note :RFDPA131010EMAB301

Test Site :SAC D  
 Test Date :2022-10-18  
 Temp./Humi. :22.7/65  
 Antenna Pol. :Horizontal  
 Engineer :Howard Huang



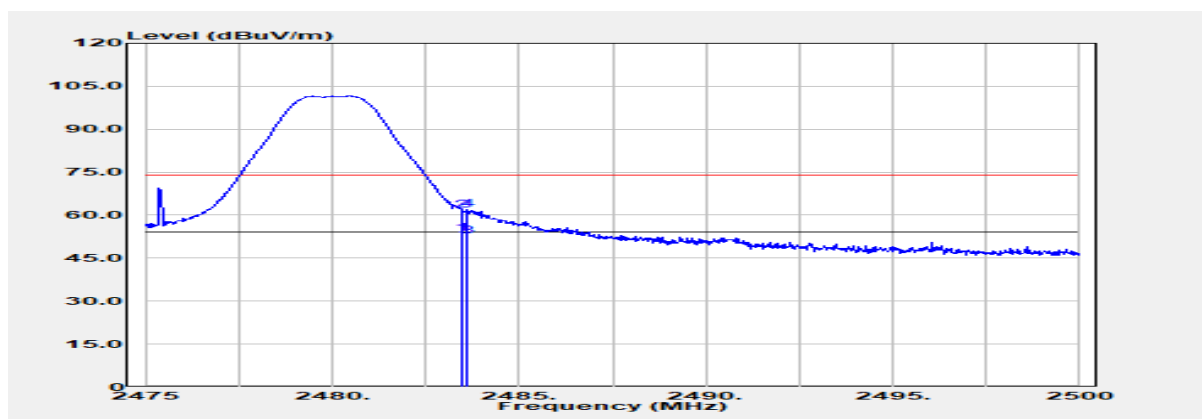
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2355.300	Average	43.06	-5.66	37.40	54.00	-16.60
2355.300	Peak	54.06	-5.66	48.40	74.00	-25.60
2390.000	Average	43.50	-5.79	37.71	54.00	-16.29
2390.000	Peak	51.68	-5.79	45.89	74.00	-28.11

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 2M  
 Test Frequency :2480 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane  
 Note :RFDPA131010EMAB301

Test Site :SAC D  
 Test Date :2022-10-18  
 Temp./Humi. :22.7/65  
 Antenna Pol. :Vertical  
 Engineer :Howard Huang



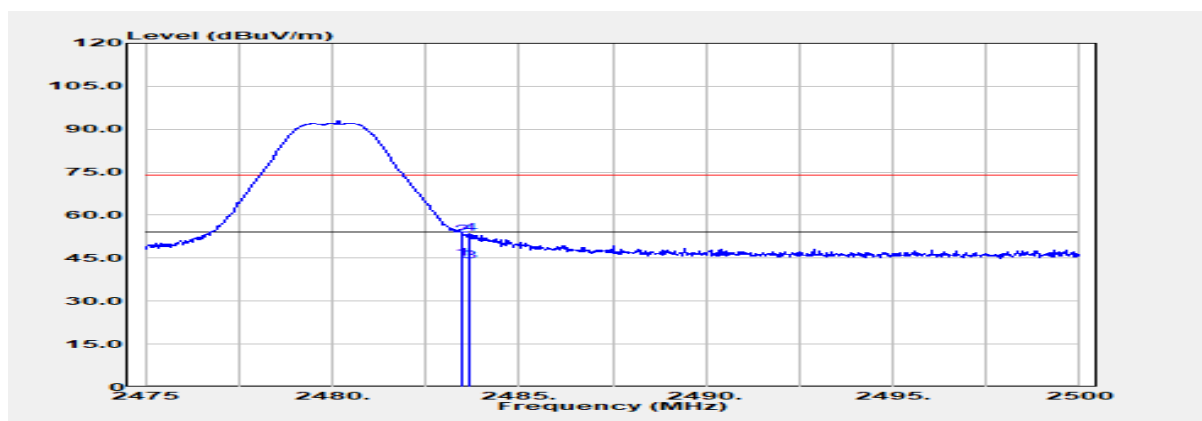
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	59.49	-5.91	53.58	54.00	-0.42
2483.500	Peak	67.59	-5.91	61.68	74.00	-12.32
2483.600	Average	58.56	-5.91	52.65	54.00	-1.35
2483.600	Peak	67.81	-5.91	61.91	74.00	-12.09

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Report Number :TERF2208001445E2  
Operation Mode :BLE 2M  
Test Frequency :2480 MHz  
Test Mode :Bandedge  
EUT Pol :E2 Plane  
Note :RFDPA131010EMAB301

Test Site :SAC D  
Test Date :2022-10-18  
Temp./Humi. :22.7/65  
Antenna Pol. :Horizontal  
Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	50.65	-5.91	44.74	54.00	-9.26
2483.500	Peak	58.75	-5.91	52.84	74.00	-21.16
2483.650	Average	49.77	-5.91	43.86	54.00	-10.14
2483.650	Peak	59.57	-5.91	53.66	74.00	-20.34

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## 11.6.2 Radiated Spurious Emission

Report Number :TERF2208001445E2

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2022-10-11

Test Frequency :2442 MHz

Temp./Humi. :20.4/68

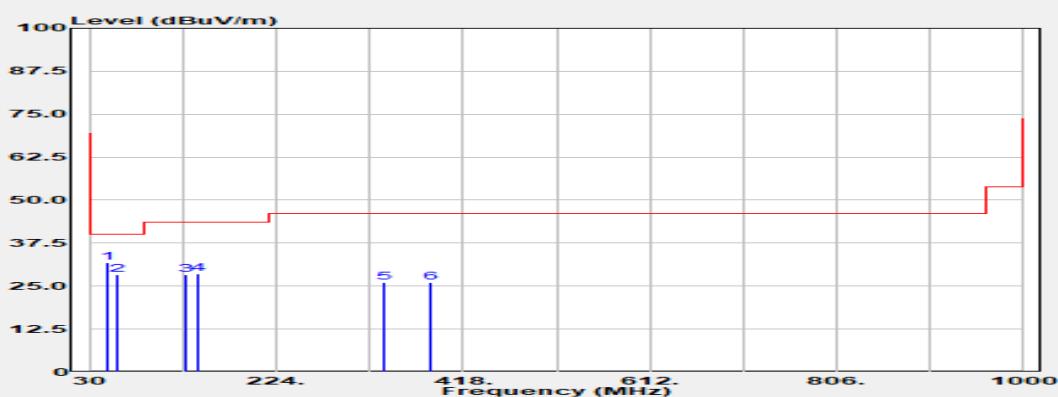
Test Mode :TX

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Howard Huang

Note :ABR-ANT-DF01



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
48.430	Peak	49.30	-17.44	31.87	40.00	-8.13
60.070	Peak	46.09	-17.87	28.22	40.00	-11.78
128.940	Peak	46.98	-18.61	28.36	43.50	-15.14
142.520	Peak	45.66	-16.98	28.68	43.50	-14.82
336.520	Peak	41.52	-15.43	26.09	46.00	-19.91
384.050	Peak	39.99	-13.81	26.17	46.00	-19.83

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SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

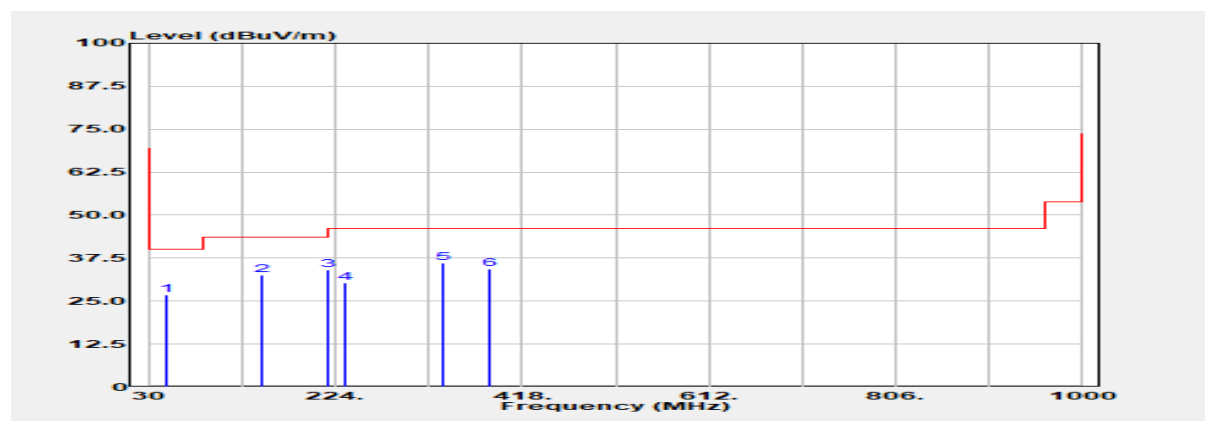
f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Report Number :TERF2208001445E2  
 Operation Mode :BLE 1M  
 Test Frequency :2442 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :ABR-ANT-DF01

Test Site :SAC D  
 Test Date :2022-10-11  
 Temp./Humi. :20.4/68  
 Antenna Pol. :Horizontal  
 Engineer :Howard Huang



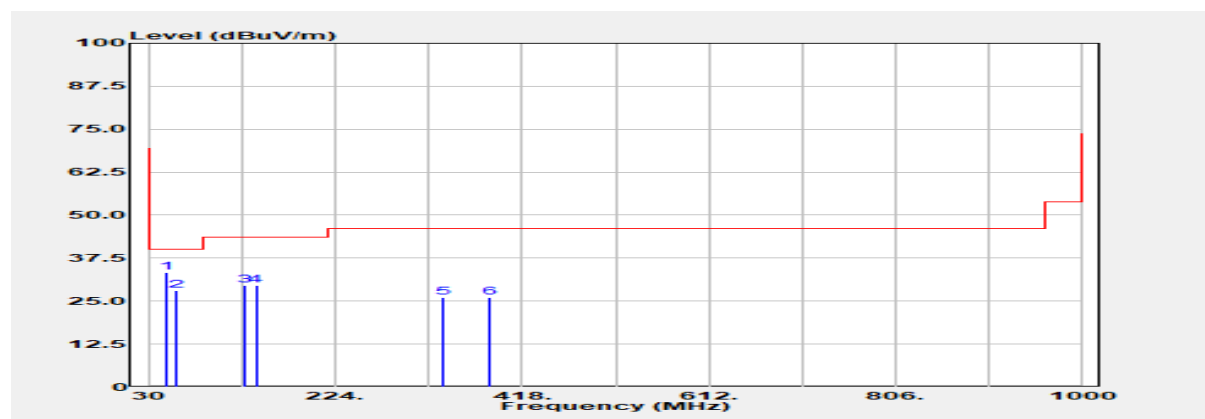
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
48.430	Peak	44.19	-17.44	26.75	40.00	-13.25
147.370	Peak	49.14	-16.62	32.52	43.50	-10.98
216.240	Peak	54.07	-19.99	34.08	46.00	-11.92
233.700	Peak	49.05	-18.85	30.20	46.00	-15.80
335.550	Peak	51.56	-15.41	36.16	46.00	-9.84
384.050	Peak	48.15	-13.81	34.33	46.00	-11.67

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Report Number :TERF2208001445E2  
Operation Mode :BLE 2M  
Test Frequency :2442 MHz  
Test Mode :TX  
EUT Pol :E2 Plane  
Note :ABR-ANT-DF01

Test Site :SAC D  
Test Date :2022-10-11  
Temp./Humi. :20.4/68  
Antenna Pol. :Vertical  
Engineer :Howard Huang



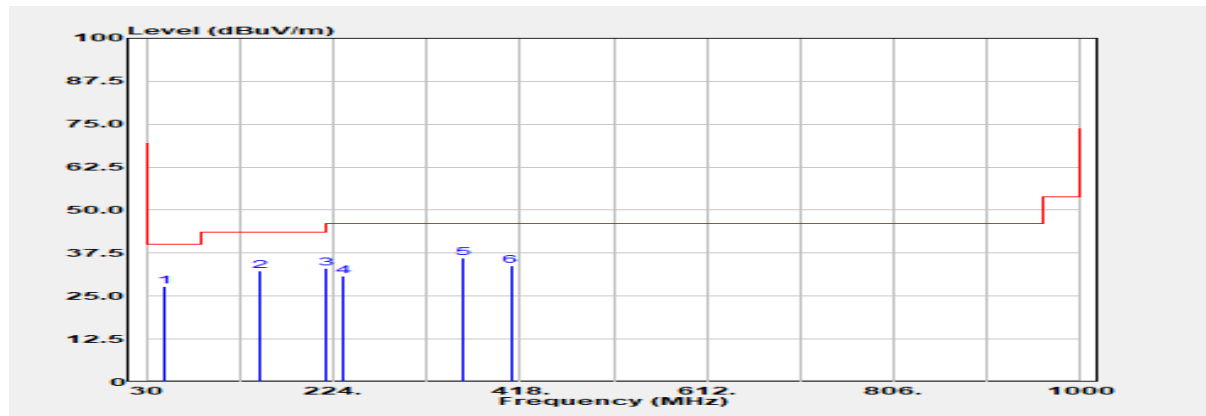
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
48.430	Peak	50.88	-17.44	33.45	40.00	-6.55
60.070	Peak	46.06	-17.87	28.19	40.00	-11.81
128.940	Peak	48.29	-18.61	29.68	43.50	-13.82
141.550	Peak	46.81	-17.14	29.68	43.50	-13.82
336.520	Peak	41.41	-15.43	25.98	46.00	-20.02
384.050	Peak	39.85	-13.81	26.03	46.00	-19.97

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 2M  
 Test Frequency :2442 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :ABR-ANT-DF01

Test Site :SAC D  
 Test Date :2022-10-11  
 Temp./Humi. :20.4/68  
 Antenna Pol. :Horizontal  
 Engineer :Howard Huang



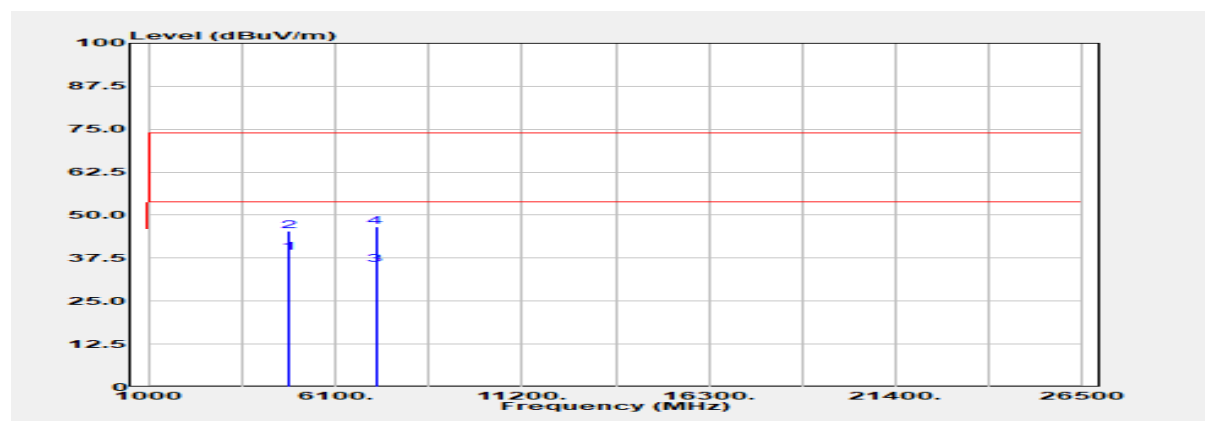
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
48.430	Peak	45.32	-17.44	27.88	40.00	-12.12
147.370	Peak	49.04	-16.62	32.42	43.50	-11.08
216.240	Peak	52.97	-19.99	32.98	46.00	-13.02
233.700	Peak	49.63	-18.85	30.78	46.00	-15.22
359.800	Peak	50.41	-14.38	36.03	46.00	-9.97
408.300	Peak	47.23	-13.42	33.80	46.00	-12.20

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 1M  
 Test Frequency :2402 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :ABR-ANT-DF01

Test Site :SAC D  
 Test Date :2022-10-11  
 Temp./Humi. :20.4/68  
 Antenna Pol. :VERTICAL  
 Engineer :Howard Huang



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	39.34	-0.18	39.16	54.00	-14.84
4804.000	Peak	45.58	-0.18	45.40	74.00	-28.60
7206.000	Average	29.15	6.49	35.64	54.00	-18.36
7206.000	Peak	40.16	6.49	46.64	74.00	-27.36

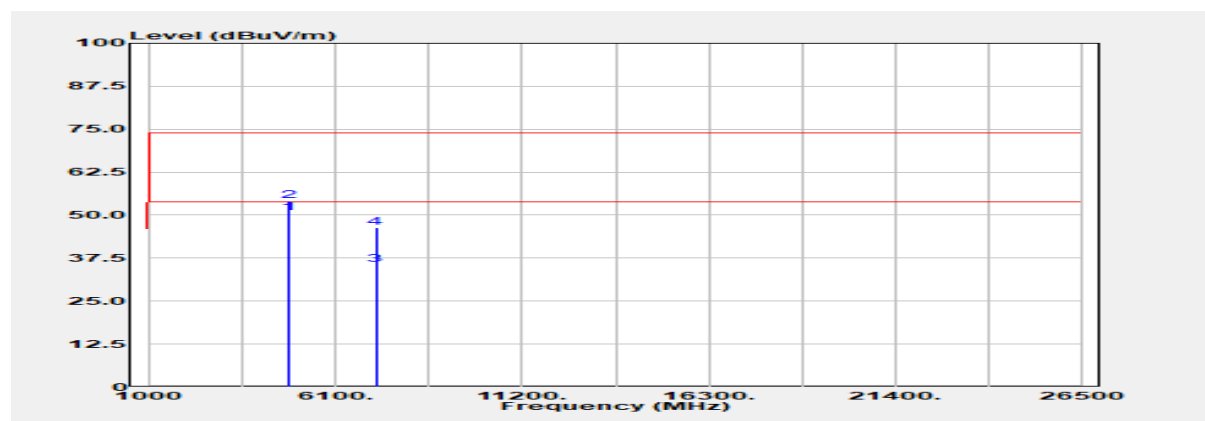
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Report Number :TERF2208001445E2  
 Operation Mode :BLE 1M  
 Test Frequency :2402 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :ABR-ANT-DF01

Test Site :SAC D  
 Test Date :2022-10-11  
 Temp./Humi. :20.4/68  
 Antenna Pol. :HORIZONTAL  
 Engineer :Howard Huang



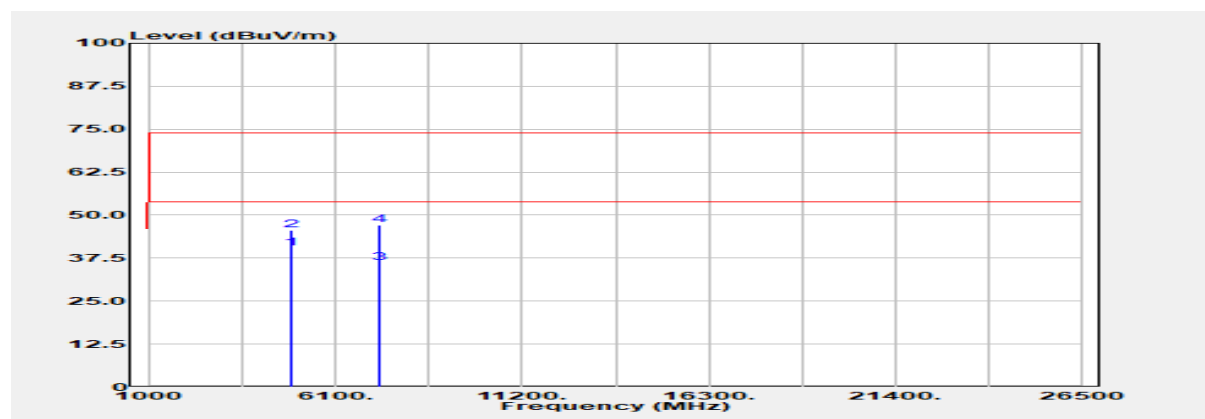
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.000	Average	50.79	-0.18	50.62	54.00	-3.38
4804.000	Peak	54.28	-0.18	54.10	74.00	-19.90
7206.000	Average	29.13	6.49	35.62	54.00	-18.38
7206.000	Peak	39.82	6.49	46.31	74.00	-27.69

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 1M  
 Test Frequency :2442 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :ABR-ANT-DF01

Test Site :SAC D  
 Test Date :2022-10-11  
 Temp./Humi. :20.4/68  
 Antenna Pol. :VERTICAL  
 Engineer :Howard Huang



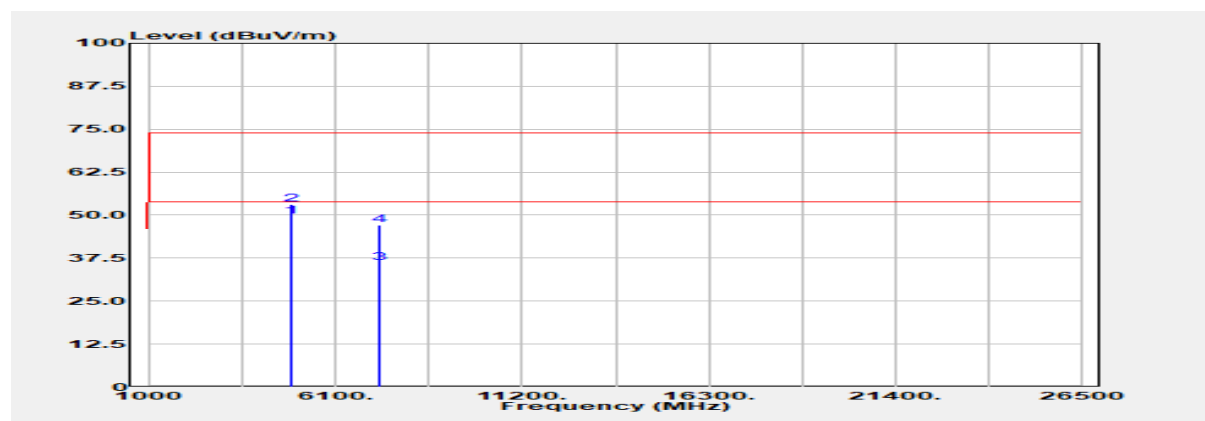
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4884.000	Average	40.70	-0.30	40.40	54.00	-13.60
4884.000	Peak	45.96	-0.30	45.66	74.00	-28.34
7326.000	Average	29.28	6.90	36.18	54.00	-17.82
7326.000	Peak	40.26	6.90	47.16	74.00	-26.84

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 1M  
 Test Frequency :2442 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :ABR-ANT-DF01

Test Site :SAC D  
 Test Date :2022-10-11  
 Temp./Humi. :20.4/68  
 Antenna Pol. :HORIZONTAL  
 Engineer :Howard Huang



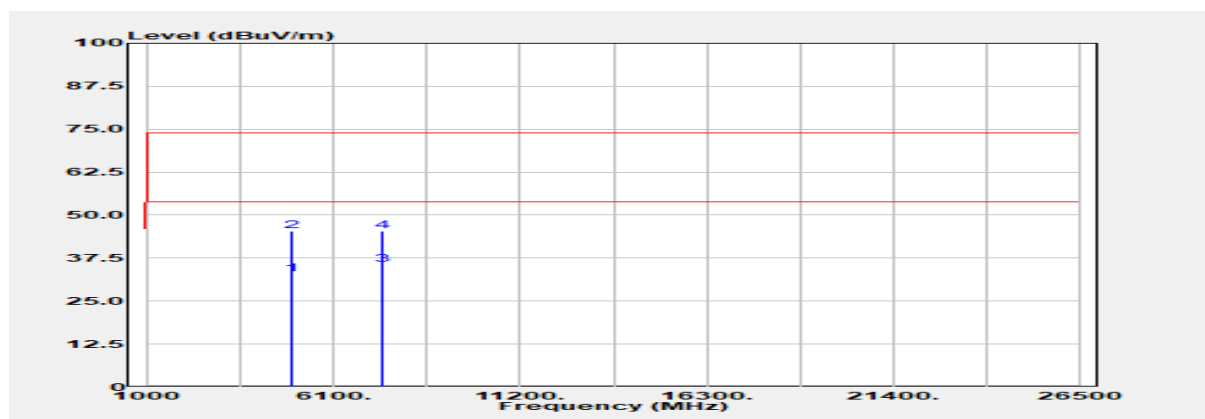
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4884.000	Average	49.90	-0.30	49.60	54.00	-4.40
4884.000	Peak	53.35	-0.30	53.05	74.00	-20.95
7326.000	Average	29.18	6.90	36.08	54.00	-17.92
7326.000	Peak	40.30	6.90	47.20	74.00	-26.80

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 1M  
 Test Frequency :2480 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :ABR-ANT-DF01

Test Site :SAC D  
 Test Date :2022-10-11  
 Temp./Humi. :20.4/68  
 Antenna Pol. :VERTICAL  
 Engineer :Howard Huang



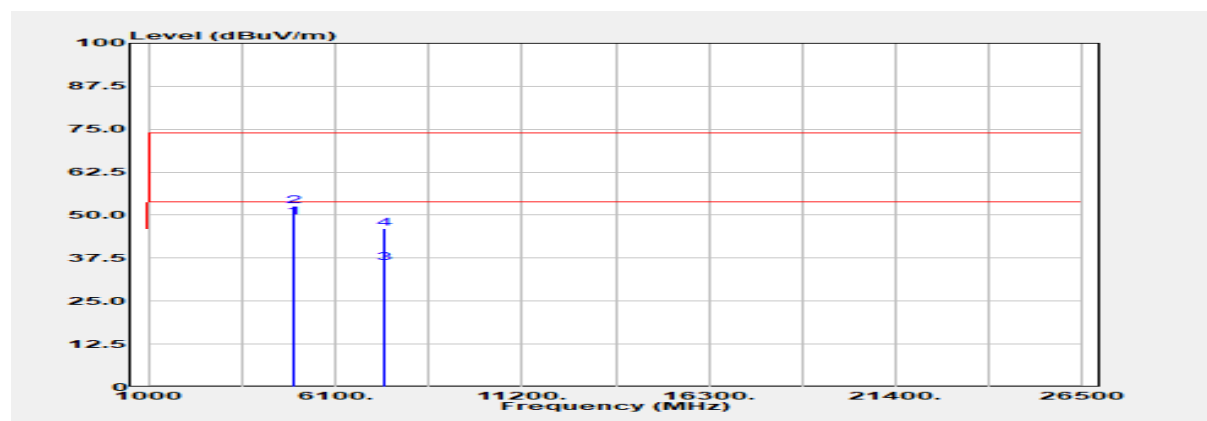
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4960.000	Average	32.36	0.40	32.76	54.00	-21.24
4960.000	Peak	45.03	0.40	45.42	74.00	-28.58
7440.000	Average	29.15	6.51	35.65	54.00	-18.35
7440.000	Peak	38.85	6.51	45.35	74.00	-28.65

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 1M  
 Test Frequency :2480 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :ABR-ANT-DF01

Test Site :SAC D  
 Test Date :2022-10-11  
 Temp./Humi. :20.4/68  
 Antenna Pol. :HORIZONTAL  
 Engineer :Howard Huang



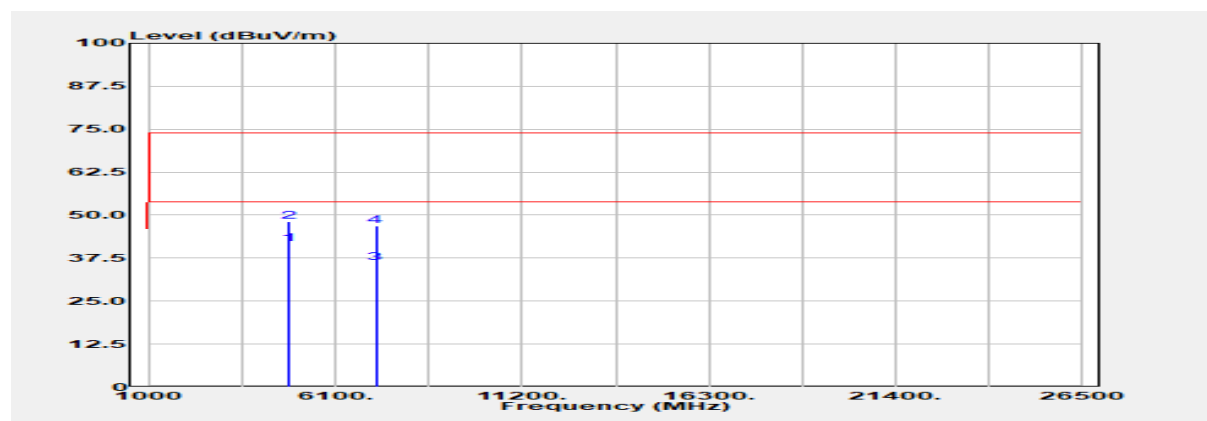
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4960.000	Average	48.95	0.40	49.35	54.00	-4.65
4960.000	Peak	52.34	0.40	52.73	74.00	-21.27
7440.000	Average	29.53	6.51	36.04	54.00	-17.96
7440.000	Peak	39.61	6.51	46.11	74.00	-27.89

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 2M  
 Test Frequency :2402 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :ABR-ANT-DF01

Test Site :SAC D  
 Test Date :2022-10-11  
 Temp./Humi. :20.4/68  
 Antenna Pol. :VERTICAL  
 Engineer :Howard Huang



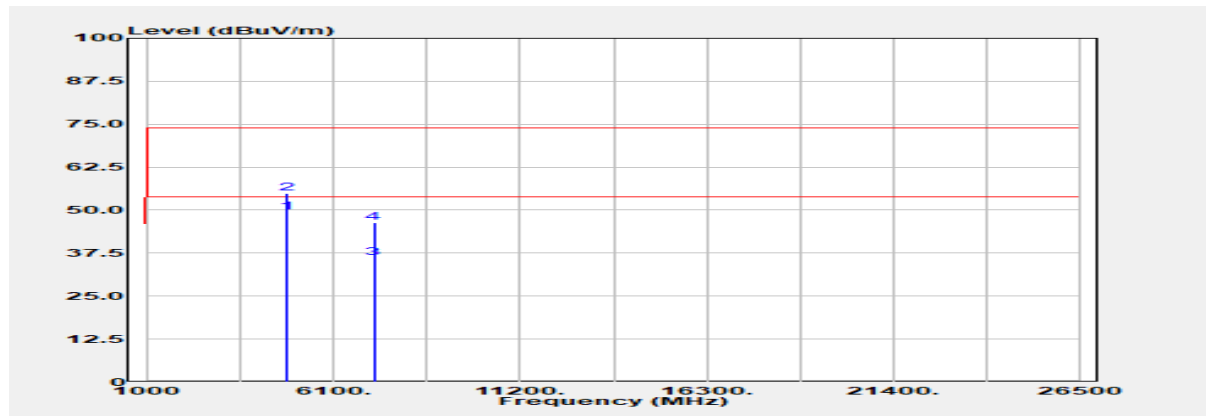
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4804.000	Average	41.66	-0.18	41.48	54.00	-12.52
4804.000	Peak	48.19	-0.18	48.01	74.00	-25.99
7206.000	Average	29.50	6.49	35.99	54.00	-18.01
7206.000	Peak	40.29	6.49	46.78	74.00	-27.22

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 2M  
 Test Frequency :2402 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :ABR-ANT-DF01

Test Site :SAC D  
 Test Date :2022-10-11  
 Temp./Humi. :20.4/68  
 Antenna Pol. :HORIZONTAL  
 Engineer :Howard Huang



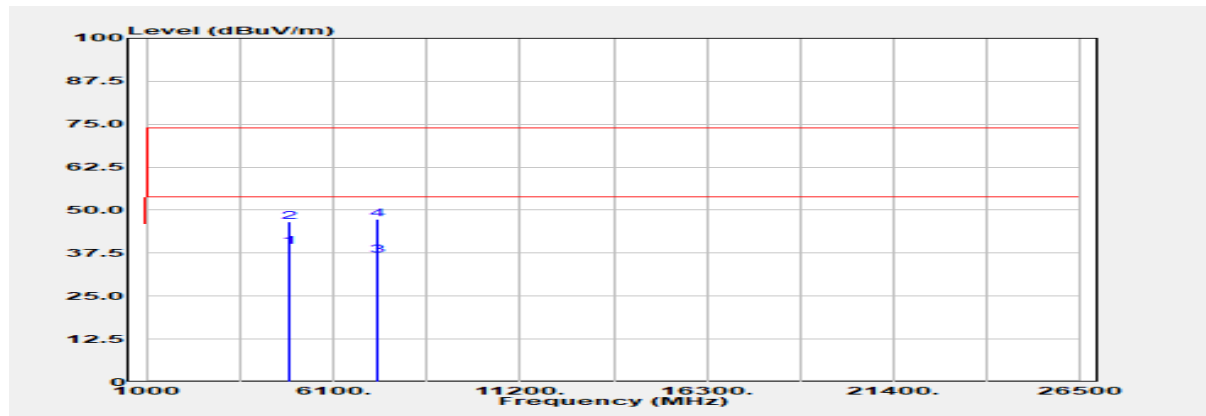
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4804.000	Average	49.50	-0.18	49.32	54.00	-4.68
4804.000	Peak	55.14	-0.18	54.96	74.00	-19.04
7206.000	Average	29.60	6.49	36.09	54.00	-17.91
7206.000	Peak	40.00	6.49	46.49	74.00	-27.51

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 2M  
 Test Frequency :2442 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :ABR-ANT-DF01

Test Site :SAC D  
 Test Date :2022-10-11  
 Temp./Humi. :20.4/68  
 Antenna Pol. :VERTICAL  
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4884.000	Average	39.74	-0.30	39.44	54.00	-14.56
4884.000	Peak	46.92	-0.30	46.62	74.00	-27.38
7326.000	Average	29.82	6.90	36.72	54.00	-17.28
7326.000	Peak	40.54	6.90	47.44	74.00	-26.56

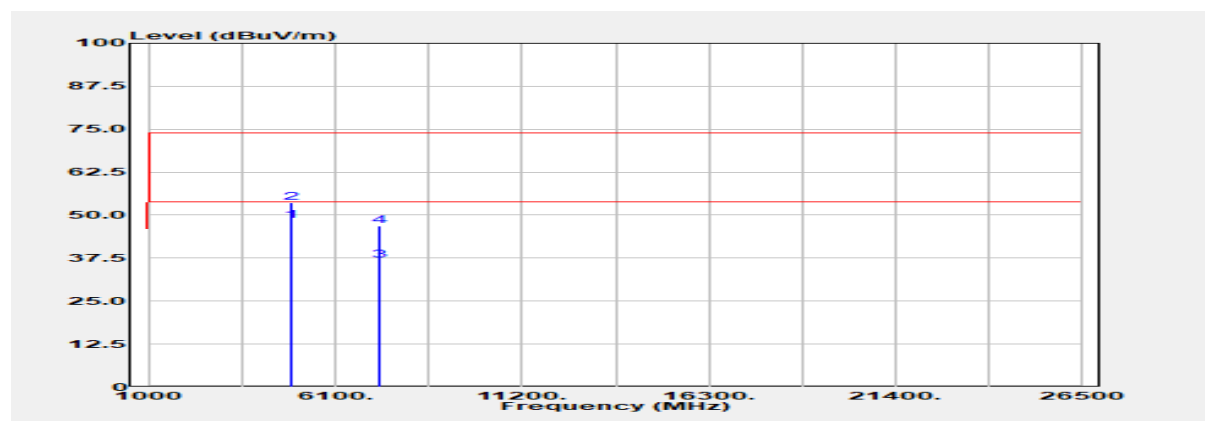
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Report Number :TERF2208001445E2  
 Operation Mode :BLE 2M  
 Test Frequency :2442 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :ABR-ANT-DF01

Test Site :SAC D  
 Test Date :2022-10-11  
 Temp./Humi. :20.4/68  
 Antenna Pol. :HORIZONTAL  
 Engineer :Howard Huang



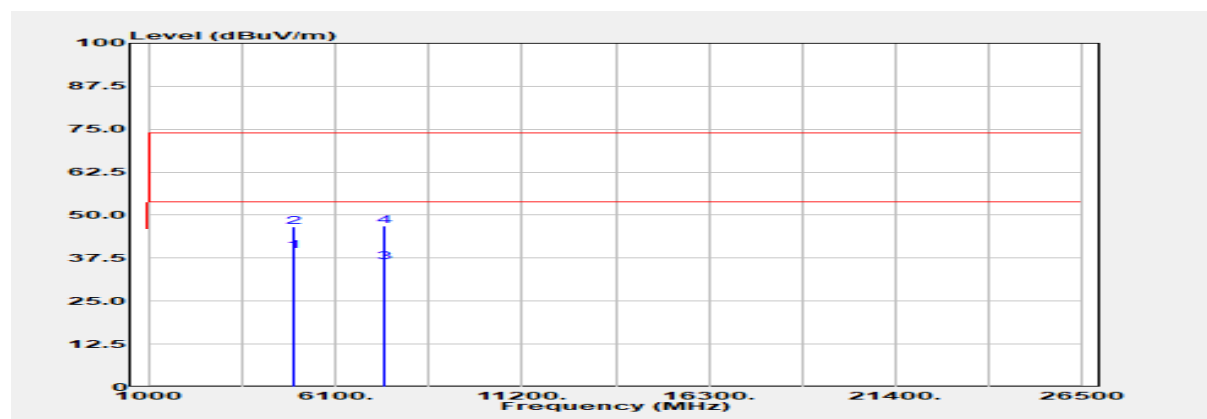
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4884.000	Average	48.77	-0.30	48.47	54.00	-5.53
4884.000	Peak	54.03	-0.30	53.73	74.00	-20.27
7326.000	Average	29.94	6.90	36.84	54.00	-17.16
7326.000	Peak	40.02	6.90	46.92	74.00	-27.08

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 2M  
 Test Frequency :2480 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :ABR-ANT-DF01

Test Site :SAC D  
 Test Date :2022-10-11  
 Temp./Humi. :20.4/68  
 Antenna Pol. :VERTICAL  
 Engineer :Howard Huang



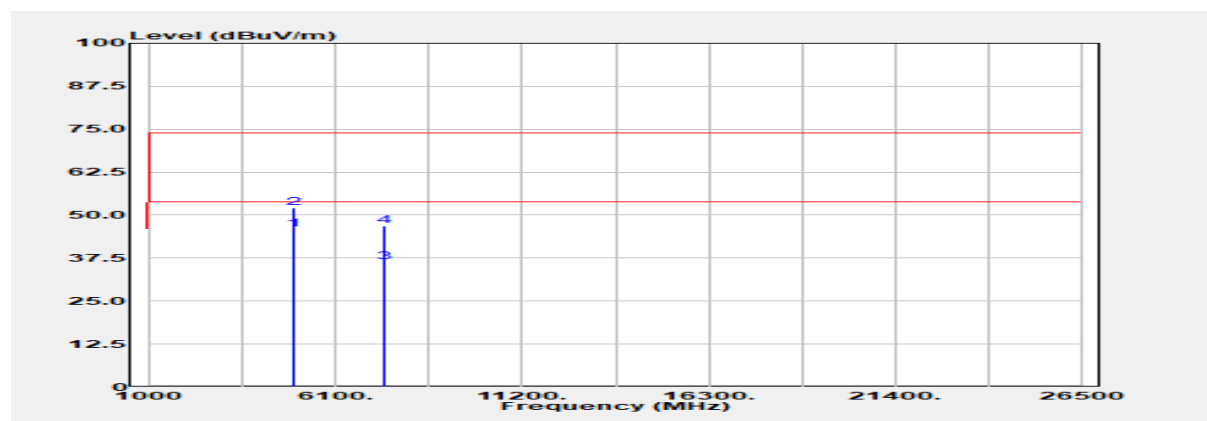
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4960.000	Average	39.20	0.40	39.60	54.00	-14.40
4960.000	Peak	46.18	0.40	46.58	74.00	-27.42
7440.000	Average	29.73	6.51	36.23	54.00	-17.77
7440.000	Peak	40.43	6.51	46.94	74.00	-27.06

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 2M  
 Test Frequency :2480 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :ABR-ANT-DF01

Test Site :SAC D  
 Test Date :2022-10-11  
 Temp./Humi. :20.4/68  
 Antenna Pol. :HORIZONTAL  
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4960.000	Average	45.38	0.40	45.78	54.00	-8.22
4960.000	Peak	51.72	0.40	52.12	74.00	-21.88
7440.000	Average	29.74	6.51	36.24	54.00	-17.76
7440.000	Peak	40.33	6.51	46.84	74.00	-27.16

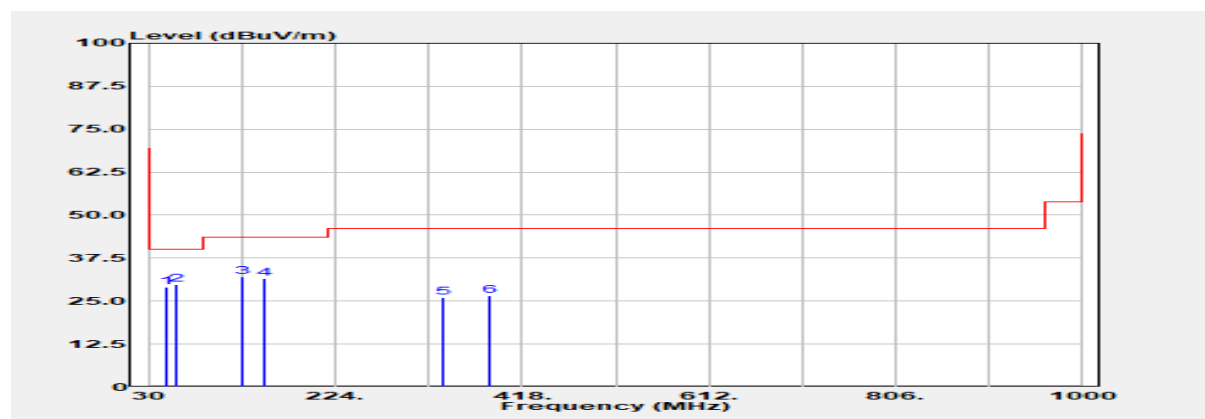
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Report Number :TERF2208001445E2  
 Operation Mode :BLE 1M  
 Test Frequency :2442 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :ASC\_RFANT3216120A5T

Test Site :SAC D  
 Test Date :2022-10-11  
 Temp./Humi. :20.4/68  
 Antenna Pol. :Vertical  
 Engineer :Howard Huang



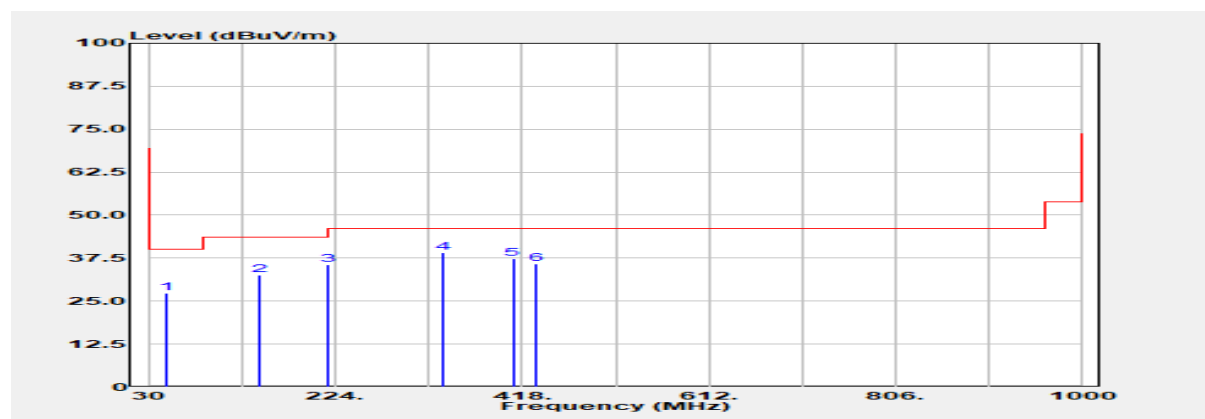
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
48.430	Peak	46.52	-17.44	29.09	40.00	-10.91
60.070	Peak	47.71	-17.87	29.84	40.00	-10.16
127.970	Peak	50.83	-18.82	32.02	43.50	-11.48
149.310	Peak	48.23	-16.65	31.58	43.50	-11.92
336.520	Peak	41.41	-15.43	25.98	46.00	-20.02
384.050	Peak	40.42	-13.81	26.60	46.00	-19.40

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Report Number :TERF2208001445E2  
Operation Mode :BLE 1M  
Test Frequency :2442 MHz  
Test Mode :TX  
EUT Pol :E2 Plane  
Note :ASC\_RFANT3216120A5T

Test Site :SAC D  
Test Date :2022-10-11  
Temp./Humi. :20.4/68  
Antenna Pol. :Horizontal  
Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
48.430	Peak	44.86	-17.44	27.42	40.00	-12.58
145.430	Peak	49.50	-16.98	32.52	43.50	-10.98
216.240	Peak	55.62	-19.99	35.63	46.00	-10.37
335.550	Peak	54.54	-15.41	39.14	46.00	-6.86
408.300	Peak	50.79	-13.42	37.37	46.00	-8.63
431.580	Peak	48.75	-12.93	35.83	46.00	-10.17

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

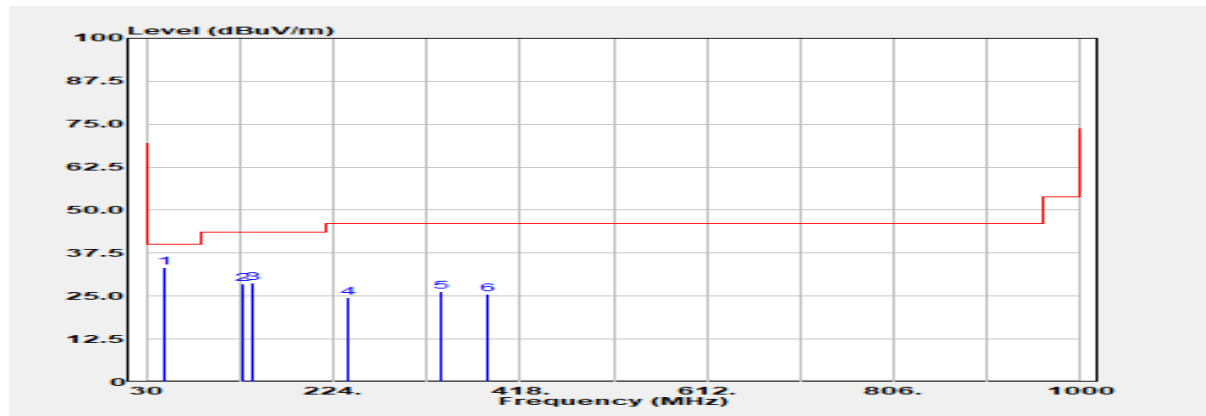
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Report Number :TERF2208001445E2  
Operation Mode :BLE 2M  
Test Frequency :2442 MHz  
Test Mode :TX  
EUT Pol :E2 Plane  
Note :ASC\_RFANT3216120A5T

Test Site :SAC D  
Test Date :2022-10-11  
Temp./Humi. :20.4/68  
Antenna Pol. :Vertical  
Engineer :Howard Huang



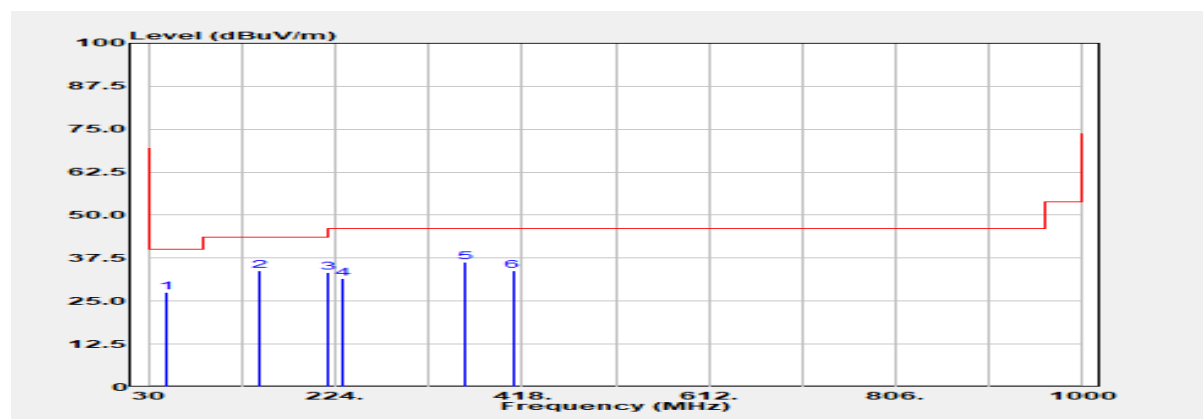
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
48.430	Peak	50.88	-17.44	33.44	40.00	-6.56
128.940	Peak	47.12	-18.61	28.50	43.50	-15.00
140.580	Peak	46.18	-17.26	28.92	43.50	-14.58
240.490	Peak	42.74	-18.16	24.58	46.00	-21.42
336.520	Peak	41.78	-15.43	26.35	46.00	-19.65
384.050	Peak	39.29	-13.81	25.47	46.00	-20.53

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 2M  
 Test Frequency :2442 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :ASC\_RFANT3216120A5T

Test Site :SAC D  
 Test Date :2022-10-11  
 Temp./Humi. :20.4/68  
 Antenna Pol. :Horizontal  
 Engineer :Howard Huang



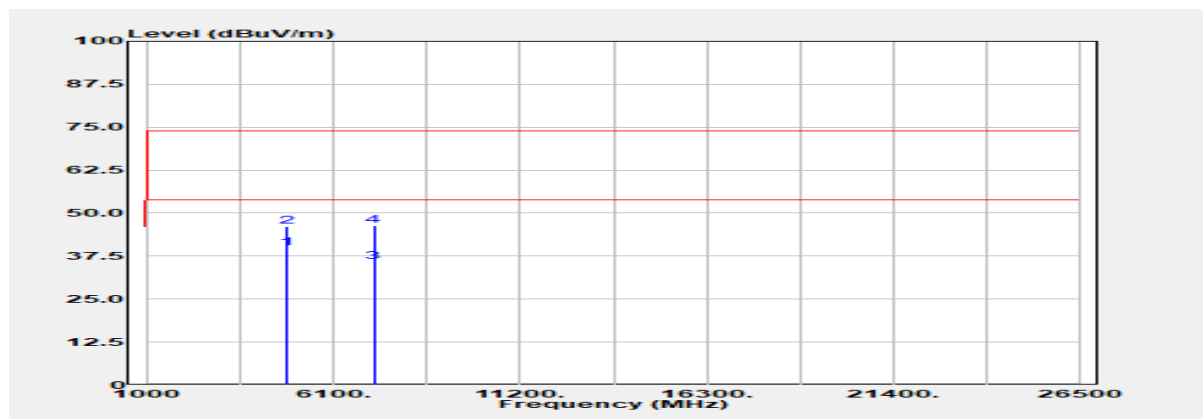
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
48.430	Peak	45.09	-17.44	27.65	40.00	-12.35
144.460	Peak	50.63	-16.90	33.73	43.50	-9.77
216.240	Peak	53.44	-19.99	33.45	46.00	-12.55
232.730	Peak	50.52	-18.99	31.53	46.00	-14.47
359.800	Peak	50.71	-14.38	36.34	46.00	-9.66
408.300	Peak	47.19	-13.42	33.77	46.00	-12.23

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 1M  
 Test Frequency :2402 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :ASC\_RFANT3216120A5T

Test Site :SAC D  
 Test Date :2022-10-11  
 Temp./Humi. :20.4/68  
 Antenna Pol. :VERTICAL  
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4804.000	Average	40.15	-0.18	39.97	54.00	-14.03
4804.000	Peak	46.22	-0.18	46.05	74.00	-27.95
7206.000	Average	29.38	6.49	35.87	54.00	-18.13
7206.000	Peak	39.76	6.49	46.25	74.00	-27.75

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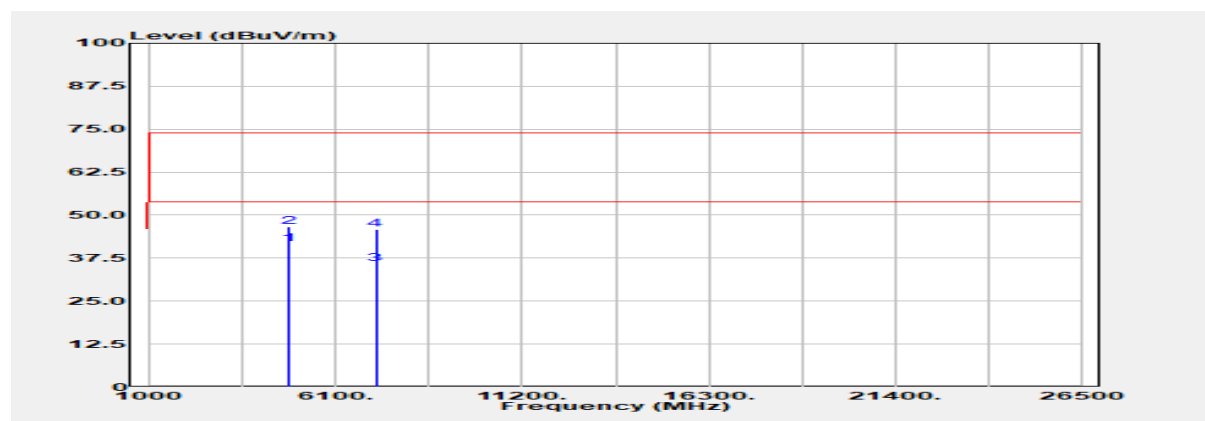
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Report Number :TERF2208001445E2  
Operation Mode :BLE 1M  
Test Frequency :2402 MHz  
Test Mode :TX  
EUT Pol :E2 Plane  
Note :ASC\_RFANT3216120A5T

Test Site :SAC D  
Test Date :2022-10-11  
Temp./Humi. :20.4/68  
Antenna Pol. :HORIZONTAL  
Engineer :Howard Huang



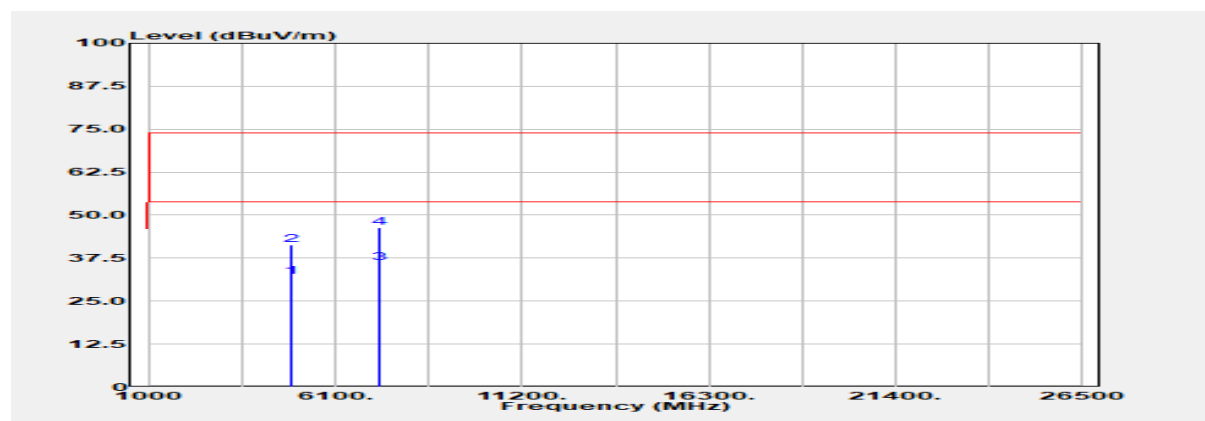
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4804.000	Average	41.90	-0.18	41.72	54.00	-12.28
4804.000	Peak	46.89	-0.18	46.71	74.00	-27.29
7206.000	Average	29.47	6.49	35.96	54.00	-18.04
7206.000	Peak	39.41	6.49	45.90	74.00	-28.10

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 1M  
 Test Frequency :2442 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :ASC\_RFANT3216120A5T

Test Site :SAC D  
 Test Date :2022-10-11  
 Temp./Humi. :20.4/68  
 Antenna Pol. :VERTICAL  
 Engineer :Howard Huang



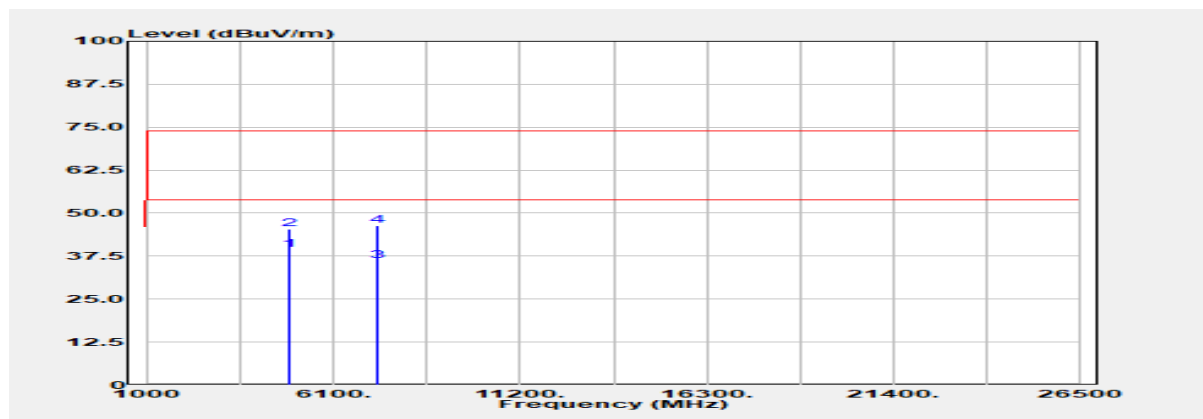
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4884.000	Average	32.42	-0.30	32.12	54.00	-21.88
4884.000	Peak	41.53	-0.30	41.23	74.00	-32.77
7326.000	Average	29.24	6.90	36.14	54.00	-17.86
7326.000	Peak	39.47	6.90	46.37	74.00	-27.63

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 1M  
 Test Frequency :2442 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :ASC\_RFANT3216120A5T

Test Site :SAC D  
 Test Date :2022-10-11  
 Temp./Humi. :20.4/68  
 Antenna Pol. :HORIZONTAL  
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4884.000	Average	39.61	-0.30	39.31	54.00	-14.69
4884.000	Peak	45.65	-0.30	45.35	74.00	-28.65
7326.000	Average	29.19	6.90	36.09	54.00	-17.91
7326.000	Peak	39.45	6.90	46.35	74.00	-27.65

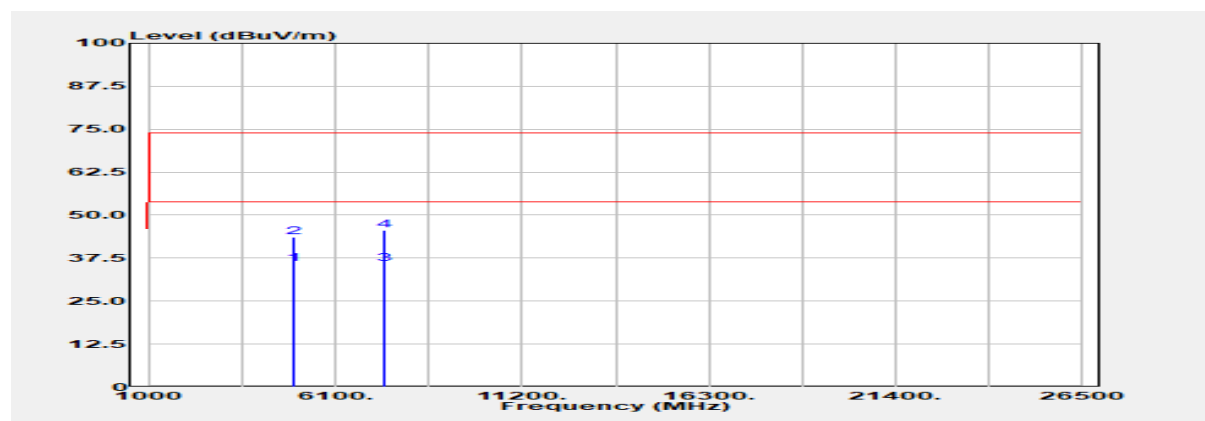
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Report Number :TERF2208001445E2  
 Operation Mode :BLE 1M  
 Test Frequency :2480 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :ASC\_RFANT3216120A5T

Test Site :SAC D  
 Test Date :2022-10-11  
 Temp./Humi. :20.4/68  
 Antenna Pol. :VERTICAL  
 Engineer :Howard Huang



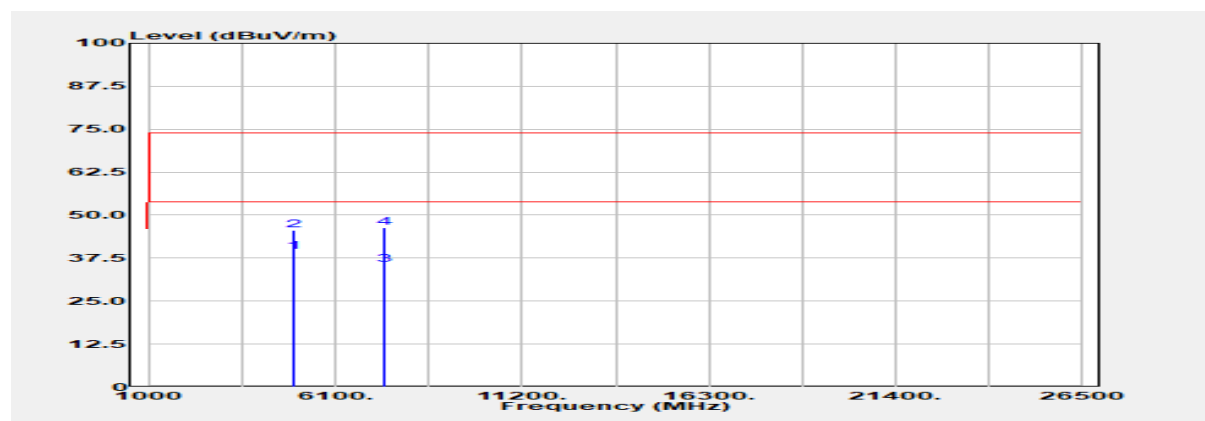
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.000	Average	35.33	0.40	35.72	54.00	-18.28
4960.000	Peak	43.21	0.40	43.60	74.00	-30.40
7440.000	Average	29.21	6.51	35.72	54.00	-18.28
7440.000	Peak	39.21	6.51	45.71	74.00	-28.29

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Report Number :TERF2208001445E2  
Operation Mode :BLE 1M  
Test Frequency :2480 MHz  
Test Mode :TX  
EUT Pol :E2 Plane  
Note :ASC\_RFANT3216120A5T

Test Site :SAC D  
Test Date :2022-10-11  
Temp./Humi. :20.4/68  
Antenna Pol. :HORIZONTAL  
Engineer :Howard Huang



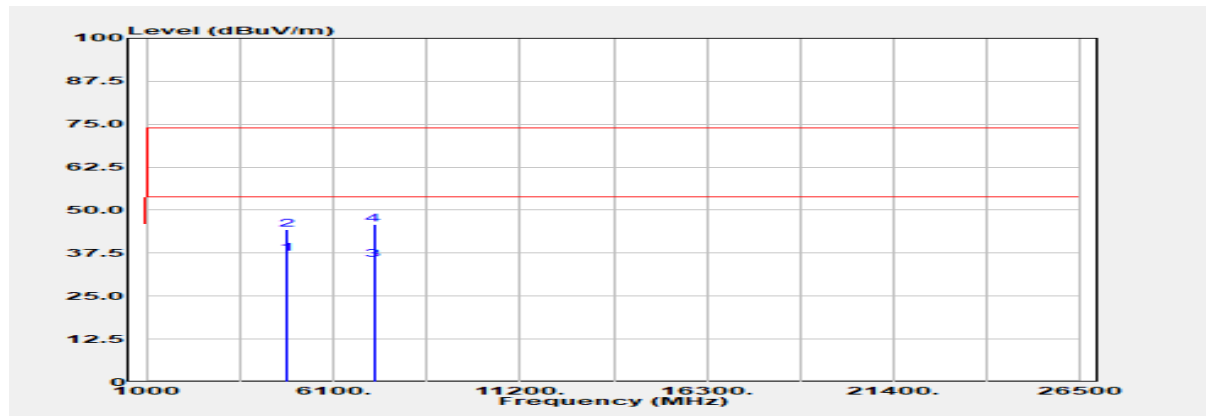
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4960.000	Average	38.93	0.40	39.32	54.00	-14.68
4960.000	Peak	45.19	0.40	45.59	74.00	-28.41
7440.000	Average	29.00	6.51	35.50	54.00	-18.50
7440.000	Peak	39.92	6.51	46.42	74.00	-27.58

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 2M  
 Test Frequency :2402 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :ASC\_RFANT3216120A5T

Test Site :SAC D  
 Test Date :2022-10-11  
 Temp./Humi. :20.4/68  
 Antenna Pol. :VERTICAL  
 Engineer :Howard Huang



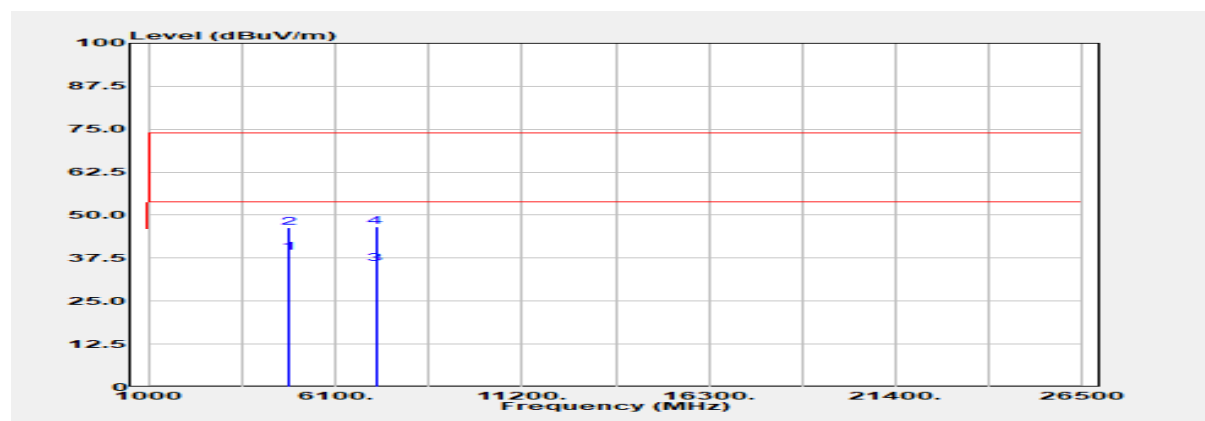
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.000	Average	37.45	-0.18	37.27	54.00	-16.73
4804.000	Peak	44.53	-0.18	44.35	74.00	-29.65
7206.000	Average	29.22	6.49	35.71	54.00	-18.29
7206.000	Peak	39.42	6.49	45.91	74.00	-28.09

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Report Number :TERF2208001445E2  
Operation Mode :BLE 2M  
Test Frequency :2402 MHz  
Test Mode :TX  
EUT Pol :E2 Plane  
Note :ASC\_RFANT3216120A5T

Test Site :SAC D  
Test Date :2022-10-11  
Temp./Humi. :20.4/68  
Antenna Pol. :HORIZONTAL  
Engineer :Howard Huang



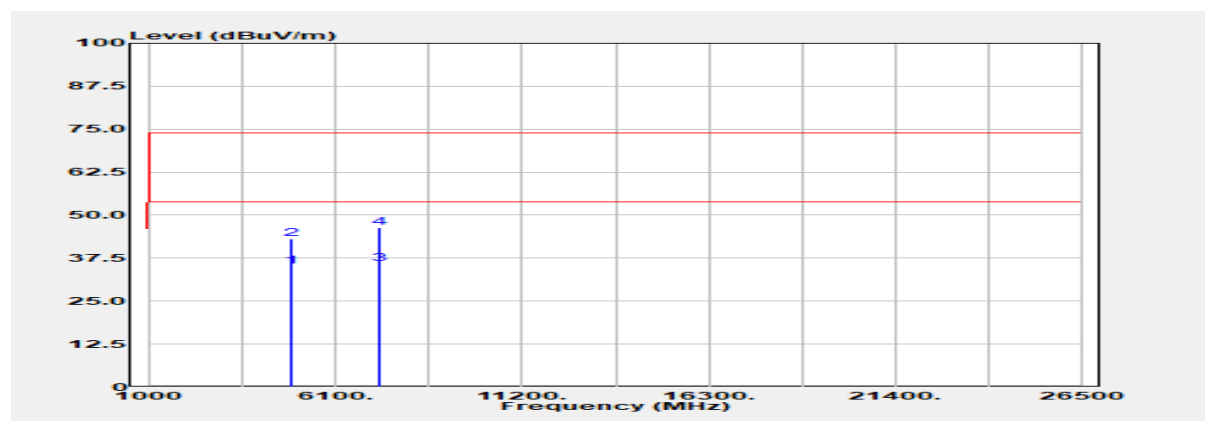
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4804.000	Average	39.27	-0.18	39.09	54.00	-14.91
4804.000	Peak	46.64	-0.18	46.46	74.00	-27.54
7206.000	Average	29.32	6.49	35.81	54.00	-18.19
7206.000	Peak	40.25	6.49	46.74	74.00	-27.26

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 2M  
 Test Frequency :2442 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :ASC\_RFANT3216120A5T

Test Site :SAC D  
 Test Date :2022-10-11  
 Temp./Humi. :20.4/68  
 Antenna Pol. :VERTICAL  
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4884.000	Average	35.31	-0.30	35.01	54.00	-18.99
4884.000	Peak	43.33	-0.30	43.04	74.00	-30.96
7326.000	Average	29.05	6.90	35.95	54.00	-18.05
7326.000	Peak	39.49	6.90	46.39	74.00	-27.61

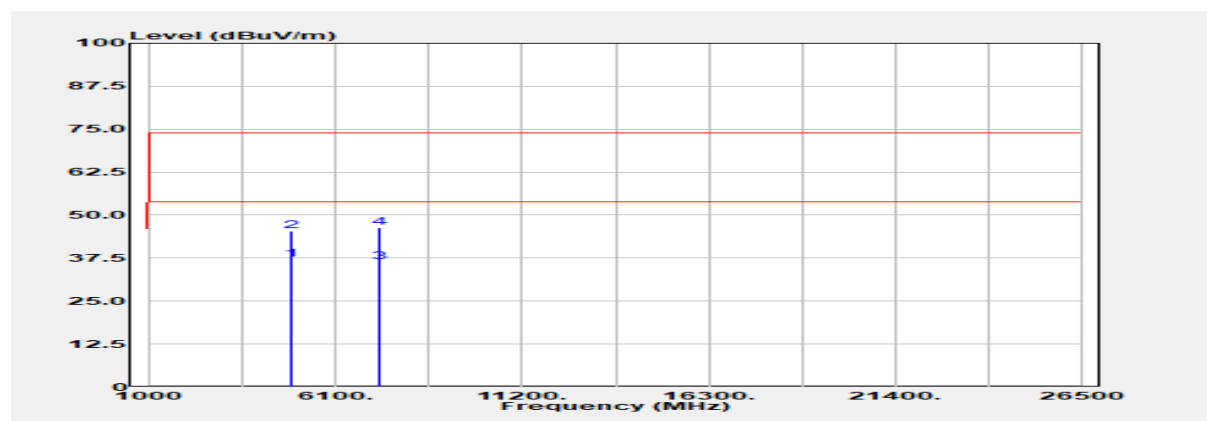
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Report Number :TERF2208001445E2  
 Operation Mode :BLE 2M  
 Test Frequency :2442 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :ASC\_RFANT3216120A5T

Test Site :SAC D  
 Test Date :2022-10-11  
 Temp./Humi. :20.4/68  
 Antenna Pol. :HORIZONTAL  
 Engineer :Howard Huang



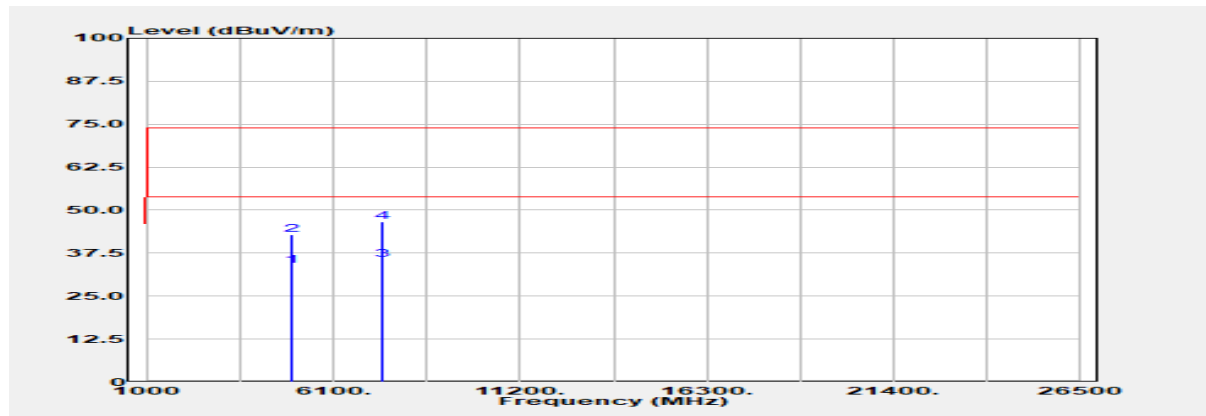
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4884.000	Average	37.38	-0.30	37.08	54.00	-16.92
4884.000	Peak	45.62	-0.30	45.32	74.00	-28.68
7326.000	Average	29.49	6.90	36.39	54.00	-17.61
7326.000	Peak	39.44	6.90	46.34	74.00	-27.66

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 2M  
 Test Frequency :2480 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :ASC\_RFANT3216120A5T

Test Site :SAC D  
 Test Date :2022-10-11  
 Temp./Humi. :20.4/68  
 Antenna Pol. :VERTICAL  
 Engineer :Howard Huang



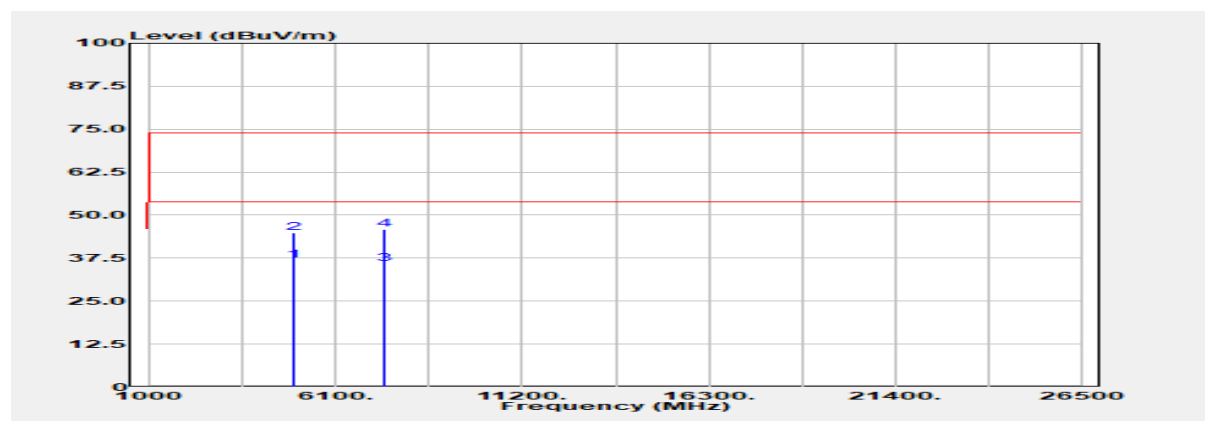
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4960.000	Average	33.43	0.40	33.82	54.00	-20.18
4960.000	Peak	42.48	0.40	42.88	74.00	-31.12
7440.000	Average	29.20	6.51	35.70	54.00	-18.30
7440.000	Peak	40.16	6.51	46.67	74.00	-27.33

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 2M  
 Test Frequency :2480 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :ASC\_RFANT3216120A5T

Test Site :SAC D  
 Test Date :2022-10-11  
 Temp./Humi. :20.4/68  
 Antenna Pol. :HORIZONTAL  
 Engineer :Howard Huang



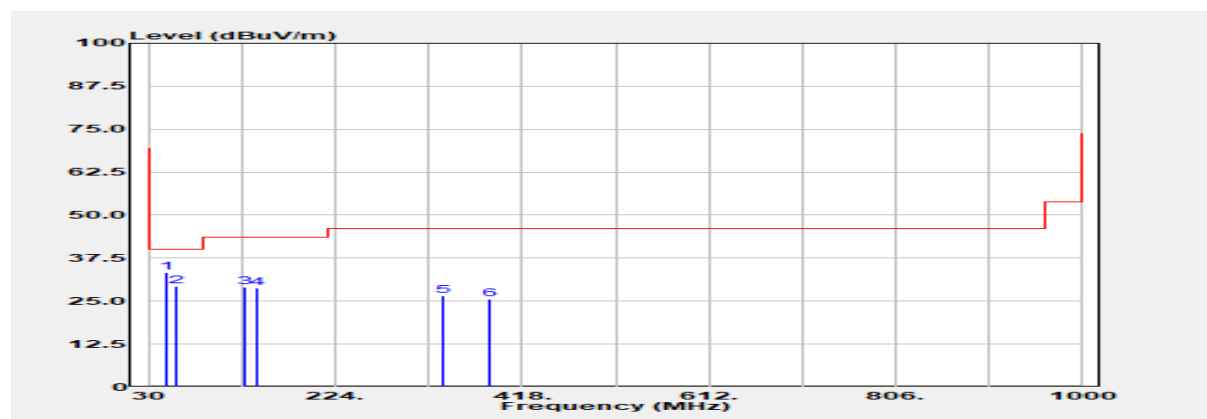
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4960.000	Average	36.45	0.40	36.85	54.00	-17.15
4960.000	Peak	44.38	0.40	44.78	74.00	-29.22
7440.000	Average	29.28	6.51	35.78	54.00	-18.22
7440.000	Peak	39.44	6.51	45.94	74.00	-28.06

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 1M  
 Test Frequency :2442 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :RFDPA131010EMAB301

Test Site :SAC D  
 Test Date :2022-10-11  
 Temp./Humi. :20.4/68  
 Antenna Pol. :Vertical  
 Engineer :Howard Huang



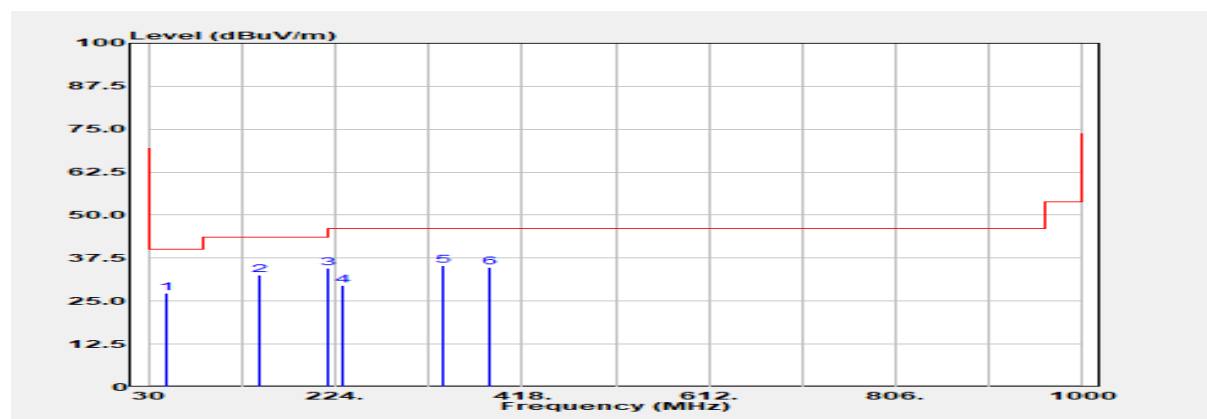
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
48.430	Peak	50.75	-17.44	33.32	40.00	-6.68
60.070	Peak	47.13	-17.87	29.26	40.00	-10.74
129.910	Peak	47.53	-18.50	29.03	43.50	-14.47
142.520	Peak	45.90	-16.98	28.92	43.50	-14.58
336.520	Peak	42.09	-15.43	26.66	46.00	-19.34
383.080	Peak	39.47	-13.81	25.66	46.00	-20.34

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Report Number :TERF2208001445E2  
Operation Mode :BLE 1M  
Test Frequency :2442 MHz  
Test Mode :TX  
EUT Pol :E2 Plane  
Note :RFDPA131010EMAB301

Test Site :SAC D  
Test Date :2022-10-11  
Temp./Humi. :20.4/68  
Antenna Pol. :Horizontal  
Engineer :Howard Huang



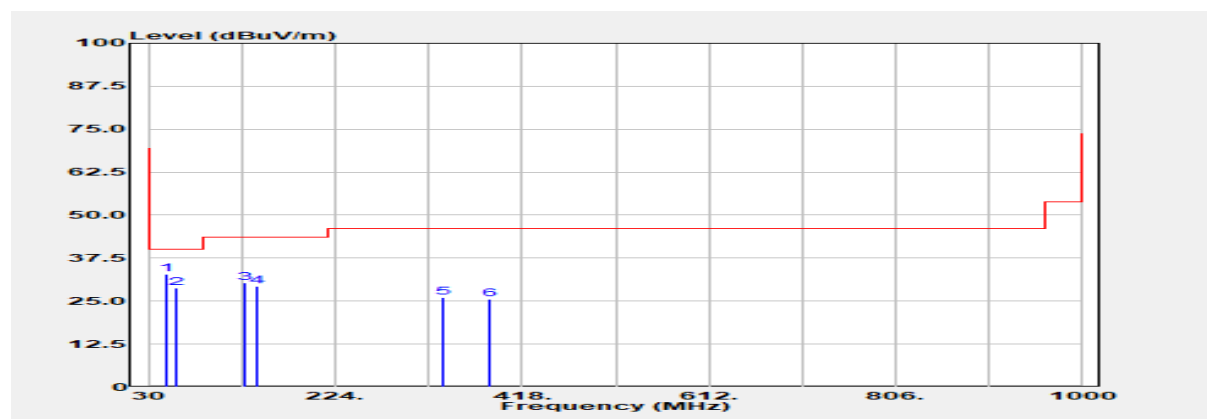
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
48.430	Peak	44.72	-17.44	27.29	40.00	-12.71
144.460	Peak	49.54	-16.90	32.64	43.50	-10.86
216.240	Peak	54.56	-19.99	34.57	46.00	-11.43
232.730	Peak	48.53	-18.99	29.54	46.00	-16.46
335.550	Peak	50.73	-15.41	35.32	46.00	-10.68
384.050	Peak	48.56	-13.81	34.75	46.00	-11.25

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 2M  
 Test Frequency :2442 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :RFDPA131010EMAB301

Test Site :SAC D  
 Test Date :2022-10-11  
 Temp./Humi. :20.4/68  
 Antenna Pol. :Vertical  
 Engineer :Howard Huang



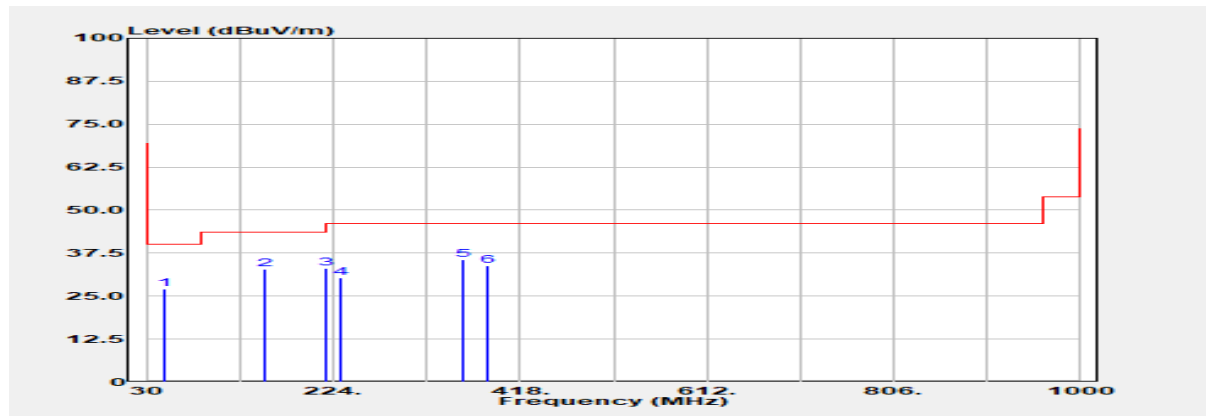
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
48.430	Peak	50.22	-17.44	32.78	40.00	-7.22
60.070	Peak	46.67	-17.87	28.80	40.00	-11.20
129.910	Peak	48.92	-18.50	30.43	43.50	-13.07
143.490	Peak	46.31	-16.92	29.40	43.50	-14.10
336.520	Peak	41.48	-15.43	26.05	46.00	-19.95
383.080	Peak	39.38	-13.81	25.57	46.00	-20.43

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 2M  
 Test Frequency :2442 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :RFDPA131010EMAB301

Test Site :SAC D  
 Test Date :2022-10-11  
 Temp./Humi. :20.4/68  
 Antenna Pol. :Horizontal  
 Engineer :Howard Huang



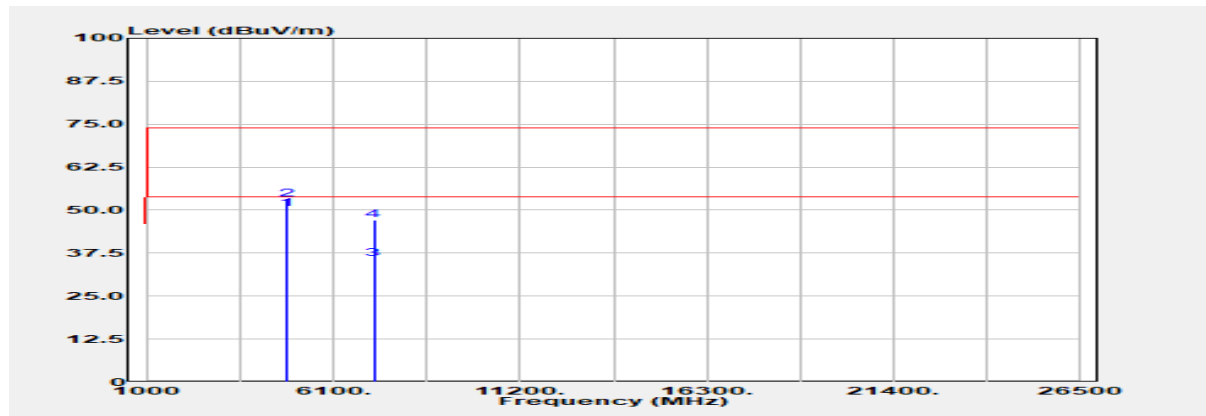
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
48.430	Peak	44.44	-17.44	27.01	40.00	-12.99
152.220	Peak	49.32	-16.48	32.84	43.50	-10.66
216.240	Peak	53.15	-19.99	33.16	46.00	-12.84
232.730	Peak	49.35	-18.99	30.36	46.00	-15.64
359.800	Peak	50.06	-14.38	35.68	46.00	-10.32
383.080	Peak	47.75	-13.81	33.94	46.00	-12.06

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 1M  
 Test Frequency :2402 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :RFDPA131010EMAB301

Test Site :SAC D  
 Test Date :2022-10-11  
 Temp./Humi. :20.4/68  
 Antenna Pol. :VERTICAL  
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4804.000	Average	50.56	-0.18	50.38	54.00	-3.62
4804.000	Peak	53.28	-0.18	53.11	74.00	-20.89
7206.000	Average	29.44	6.49	35.93	54.00	-18.07
7206.000	Peak	40.66	6.49	47.15	74.00	-26.85

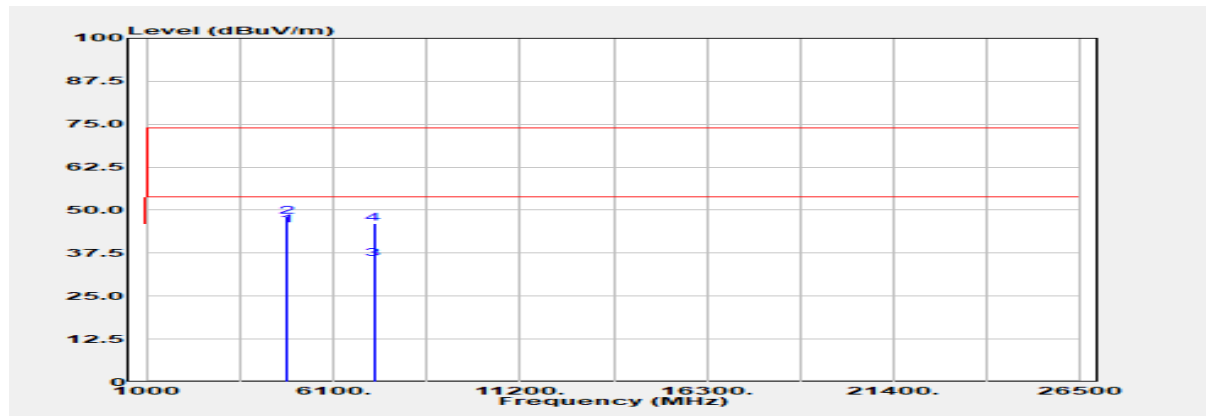
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Report Number :TERF2208001445E2  
 Operation Mode :BLE 1M  
 Test Frequency :2402 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :RFDPA131010EMAB301

Test Site :SAC D  
 Test Date :2022-10-11  
 Temp./Humi. :20.4/68  
 Antenna Pol. :HORIZONTAL  
 Engineer :Howard Huang



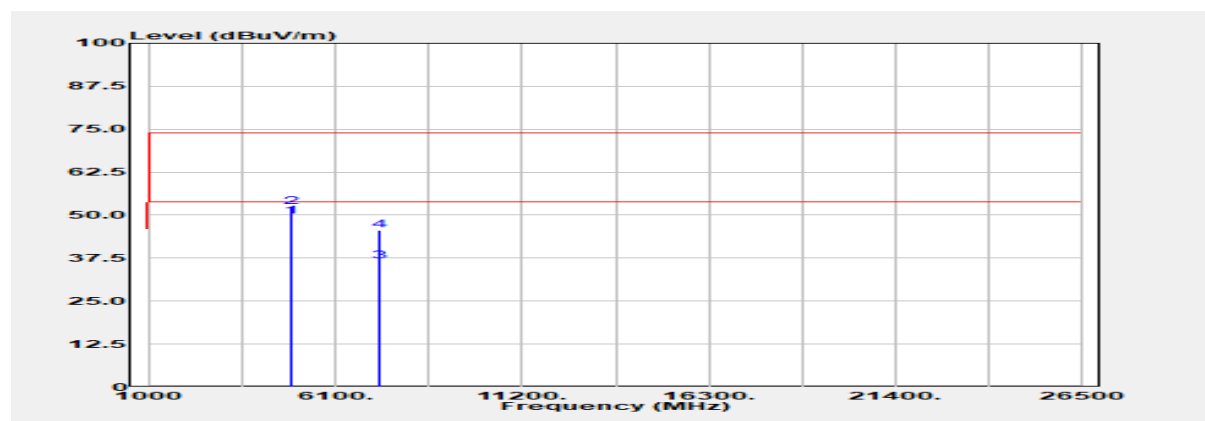
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.000	Average	45.71	-0.18	45.53	54.00	-8.47
4804.000	Peak	48.36	-0.18	48.18	74.00	-25.82
7206.000	Average	29.36	6.49	35.85	54.00	-18.15
7206.000	Peak	39.60	6.49	46.09	74.00	-27.91

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 1M  
 Test Frequency :2442 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :RFDPA131010EMAB301

Test Site :SAC D  
 Test Date :2022-10-11  
 Temp./Humi. :20.4/68  
 Antenna Pol. :VERTICAL  
 Engineer :Howard Huang



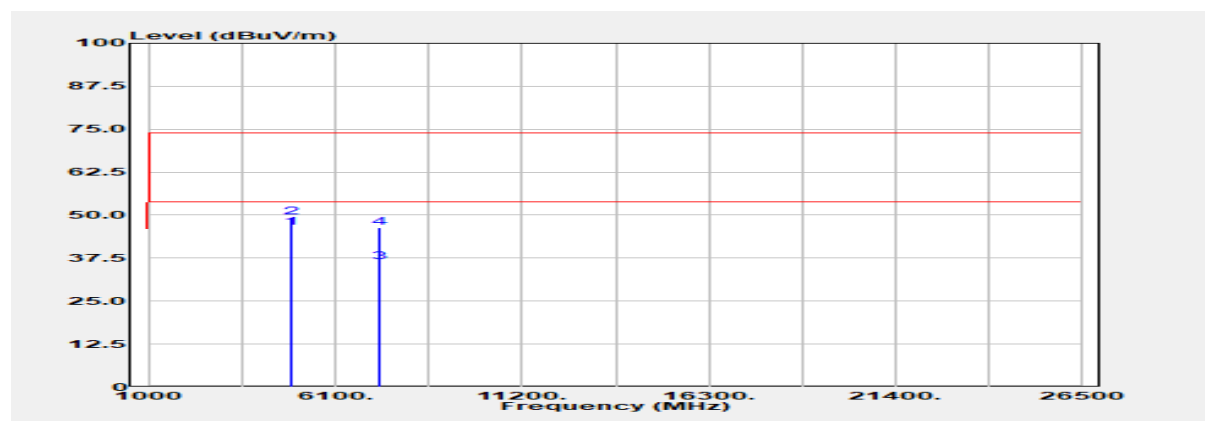
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4884.000	Average	49.92	-0.30	49.62	54.00	-4.38
4884.000	Peak	52.57	-0.30	52.27	74.00	-21.73
7326.000	Average	29.76	6.90	36.65	54.00	-17.35
7326.000	Peak	38.83	6.90	45.73	74.00	-28.27

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 1M  
 Test Frequency :2442 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :RFDPA131010EMAB301

Test Site :SAC D  
 Test Date :2022-10-11  
 Temp./Humi. :20.4/68  
 Antenna Pol. :HORIZONTAL  
 Engineer :Howard Huang



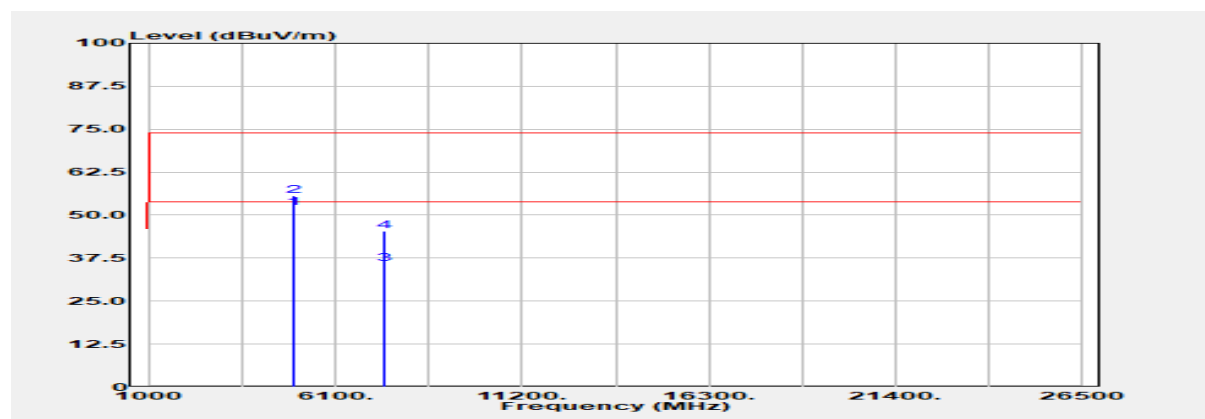
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4884.000	Average	46.58	-0.30	46.28	54.00	-7.72
4884.000	Peak	49.55	-0.30	49.25	74.00	-24.75
7326.000	Average	29.32	6.90	36.22	54.00	-17.78
7326.000	Peak	39.48	6.90	46.38	74.00	-27.62

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 1M  
 Test Frequency :2480 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :RFDPA131010EMAB301

Test Site :SAC D  
 Test Date :2022-10-11  
 Temp./Humi. :20.4/68  
 Antenna Pol. :VERTICAL  
 Engineer :Howard Huang



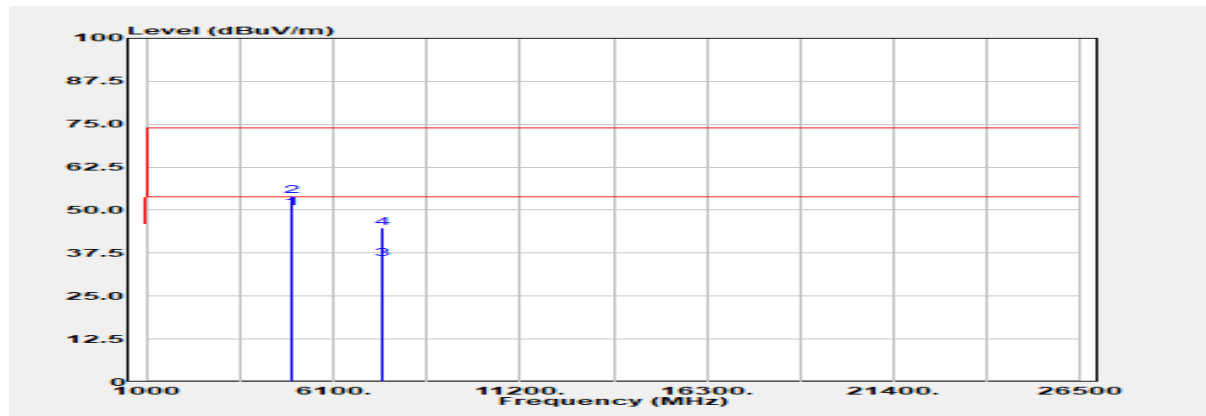
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4960.000	Average	51.75	0.40	52.15	54.00	-1.85
4960.000	Peak	55.35	0.40	55.75	74.00	-18.25
7440.000	Average	29.35	6.51	35.86	54.00	-18.14
7440.000	Peak	38.76	6.51	45.26	74.00	-28.74

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 1M  
 Test Frequency :2480 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :RFDPA131010EMAB301

Test Site :SAC D  
 Test Date :2022-10-11  
 Temp./Humi. :20.4/68  
 Antenna Pol. :HORIZONTAL  
 Engineer :Howard Huang



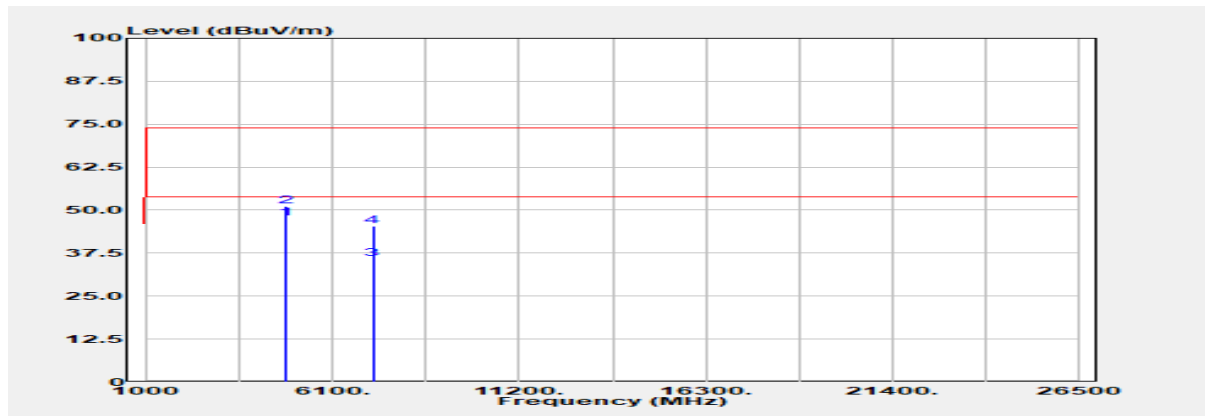
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4960.000	Average	50.24	0.40	50.64	54.00	-3.36
4960.000	Peak	53.72	0.40	54.12	74.00	-19.88
7440.000	Average	29.41	6.51	35.92	54.00	-18.08
7440.000	Peak	38.45	6.51	44.95	74.00	-29.05

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 2M  
 Test Frequency :2402 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :RFDPA131010EMAB301

Test Site :SAC D  
 Test Date :2022-10-11  
 Temp./Humi. :20.4/68  
 Antenna Pol. :VERTICAL  
 Engineer :Howard Huang



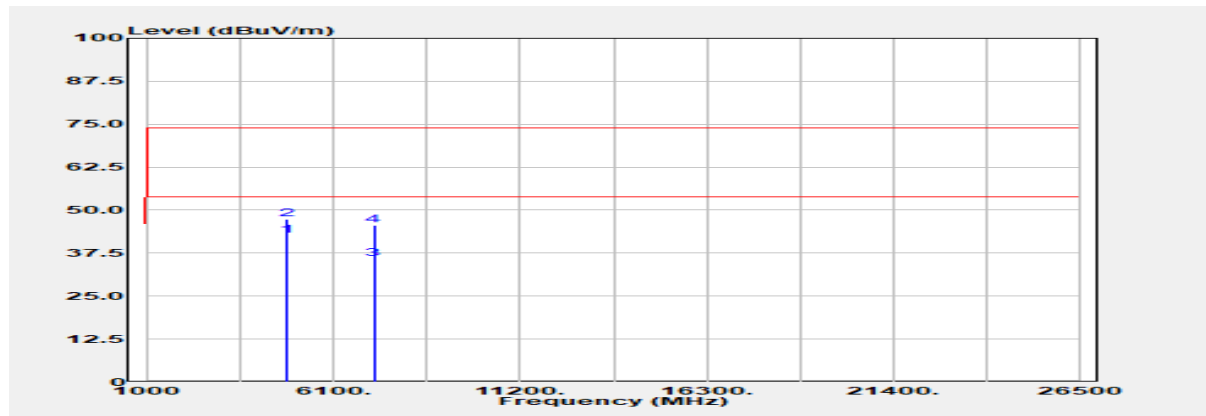
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.000	Average	47.79	-0.18	47.61	54.00	-6.39
4804.000	Peak	51.34	-0.18	51.16	74.00	-22.84
7206.000	Average	29.32	6.49	35.81	54.00	-18.19
7206.000	Peak	38.98	6.49	45.47	74.00	-28.53

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 2M  
 Test Frequency :2402 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :RFDPA131010EMAB301

Test Site :SAC D  
 Test Date :2022-10-11  
 Temp./Humi. :20.4/68  
 Antenna Pol. :HORIZONTAL  
 Engineer :Howard Huang



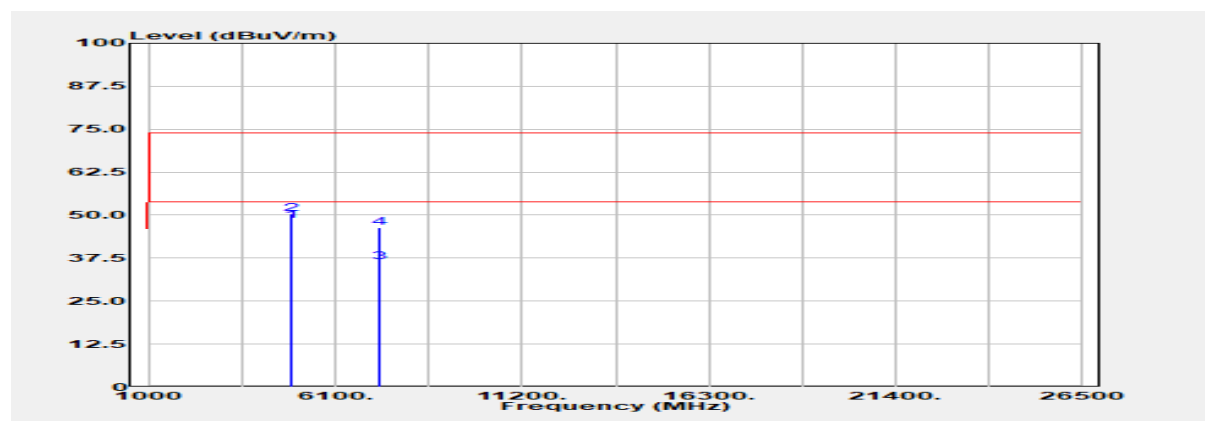
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4804.000	Average	42.90	-0.18	42.72	54.00	-11.28
4804.000	Peak	47.57	-0.18	47.39	74.00	-26.61
7206.000	Average	29.44	6.49	35.93	54.00	-18.07
7206.000	Peak	39.04	6.49	45.53	74.00	-28.47

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Report Number :TERF2208001445E2  
Operation Mode :BLE 2M  
Test Frequency :2442 MHz  
Test Mode :TX  
EUT Pol :E2 Plane  
Note :RFDPA131010EMAB301

Test Site :SAC D  
Test Date :2022-10-11  
Temp./Humi. :20.4/68  
Antenna Pol. :VERTICAL  
Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4884.000	Average	48.69	-0.30	48.39	54.00	-5.61
4884.000	Peak	50.60	-0.30	50.30	74.00	-23.70
7326.000	Average	29.47	6.90	36.37	54.00	-17.63
7326.000	Peak	39.52	6.90	46.42	74.00	-27.58

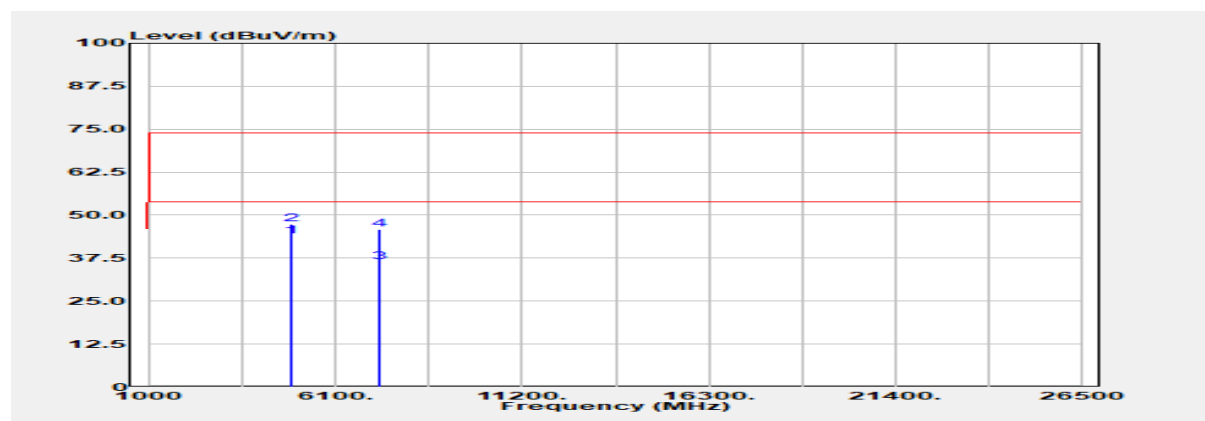
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Report Number :TERF2208001445E2  
Operation Mode :BLE 2M  
Test Frequency :2442 MHz  
Test Mode :TX  
EUT Pol :E2 Plane  
Note :RFDPA131010EMAB301

Test Site :SAC D  
Test Date :2022-10-11  
Temp./Humi. :20.4/68  
Antenna Pol. :HORIZONTAL  
Engineer :Howard Huang



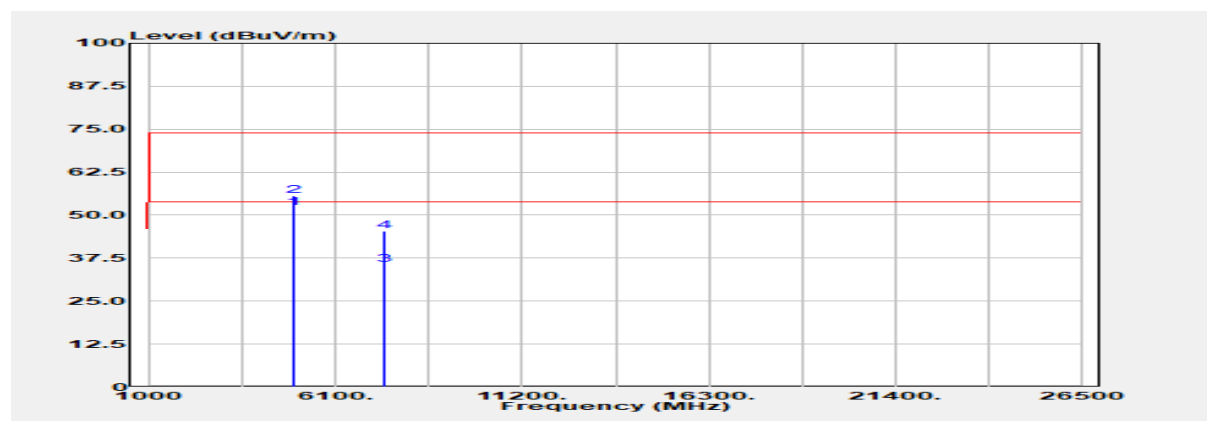
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4884.000	Average	44.08	-0.30	43.78	54.00	-10.22
4884.000	Peak	47.79	-0.30	47.49	74.00	-26.51
7326.000	Average	29.39	6.90	36.29	54.00	-17.71
7326.000	Peak	38.91	6.90	45.80	74.00	-28.20

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 2M  
 Test Frequency :2480 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :RFDPA131010EMAB301

Test Site :SAC D  
 Test Date :2022-10-11  
 Temp./Humi. :20.4/68  
 Antenna Pol. :VERTICAL  
 Engineer :Howard Huang



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	51.71	0.40	52.11	54.00	-1.89
4960.000	Peak	55.15	0.40	55.55	74.00	-18.45
7440.000	Average	29.17	6.51	35.67	54.00	-18.33
7440.000	Peak	38.81	6.51	45.31	74.00	-28.69

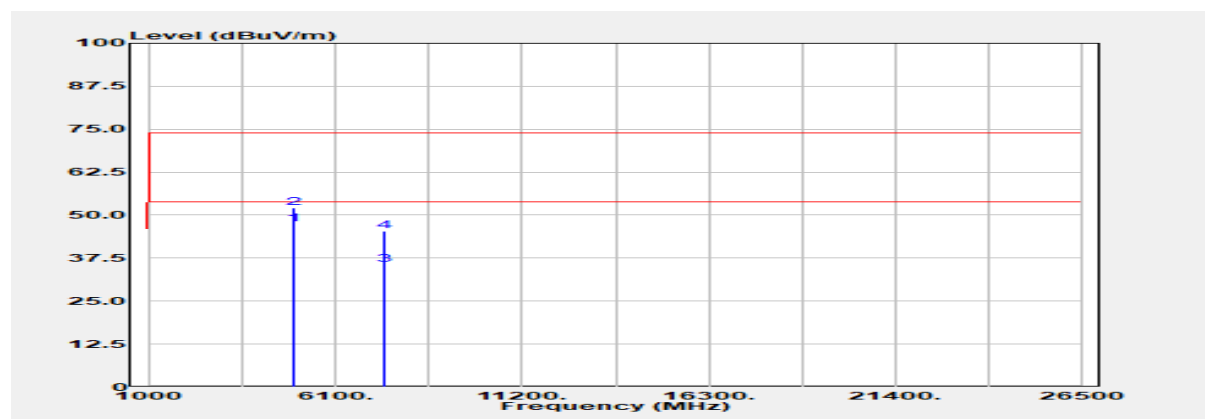
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Report Number :TERF2208001445E2  
 Operation Mode :BLE 2M  
 Test Frequency :2480 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :RFDPA131010EMAB301

Test Site :SAC D  
 Test Date :2022-10-11  
 Temp./Humi. :20.4/68  
 Antenna Pol. :HORIZONTAL  
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4960.000	Average	46.94	0.40	47.34	54.00	-6.66
4960.000	Peak	51.78	0.40	52.18	74.00	-21.82
7440.000	Average	29.18	6.51	35.69	54.00	-18.31
7440.000	Peak	38.80	6.51	45.31	74.00	-28.69

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## Spot check

Report Number :TERF2208001445E2

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2022-10-17

Test Frequency :2442 MHz

Temp./Humi. :19.9/65

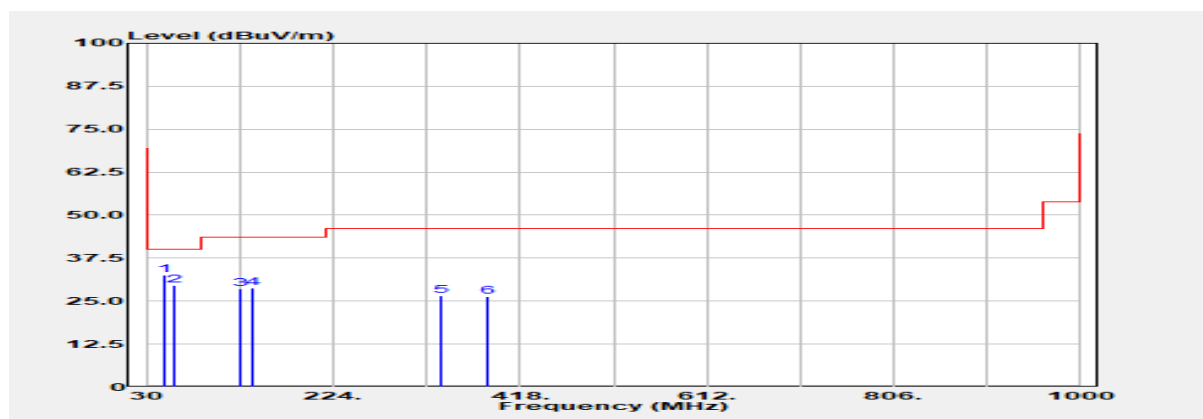
Test Mode :TX

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Howard Huang

Note :ABR-ANT-DF01



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
48.430	Peak	50.11	-17.44	32.68	40.00	-7.32
60.070	Peak	47.34	-17.87	29.47	40.00	-10.53
127.000	Peak	47.34	-18.83	28.51	43.50	-14.99
140.580	Peak	45.99	-17.26	28.73	43.50	-14.77
336.520	Peak	41.91	-15.43	26.48	46.00	-19.52
384.050	Peak	40.06	-13.81	26.24	46.00	-19.76

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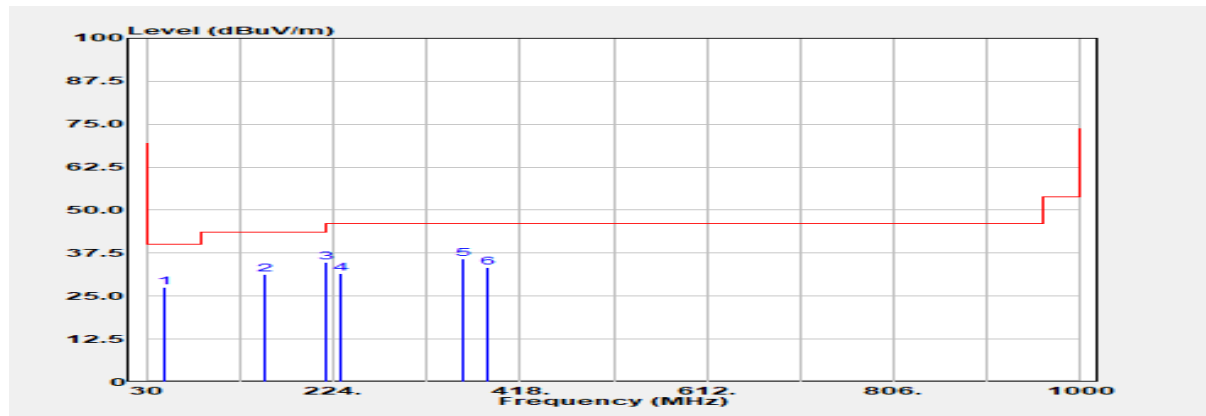
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Report Number :TERF2208001445E2  
 Operation Mode :BLE 1M  
 Test Frequency :2442 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :ABR-ANT-DF01

Test Site :SAC D  
 Test Date :2022-10-17  
 Temp./Humi. :19.9/65  
 Antenna Pol. :Horizontal  
 Engineer :Howard Huang



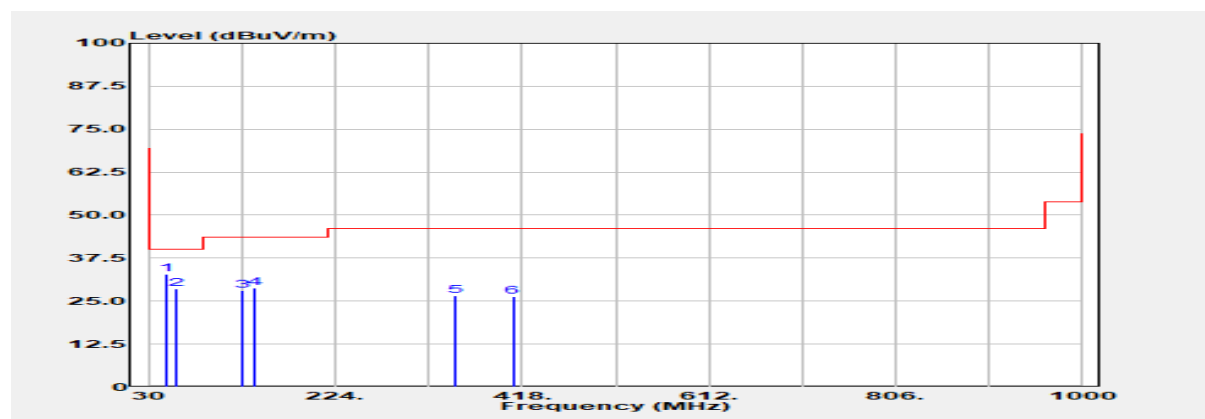
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
48.430	Peak	45.06	-17.44	27.62	40.00	-12.38
152.220	Peak	47.90	-16.48	31.42	43.50	-12.08
216.240	Peak	54.87	-19.99	34.88	46.00	-11.12
232.730	Peak	50.50	-18.99	31.51	46.00	-14.49
359.800	Peak	50.29	-14.38	35.91	46.00	-10.09
384.050	Peak	47.20	-13.81	33.38	46.00	-12.62

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Report Number :TERF2208001445E2  
Operation Mode :BLE 2M  
Test Frequency :2442 MHz  
Test Mode :TX  
EUT Pol :E2 Plane  
Note :ABR-ANT-DF01

Test Site :SAC D  
Test Date :2022-10-17  
Temp./Humi. :19.9/65  
Antenna Pol. :Vertical  
Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
48.430	Peak	50.37	-17.44	32.93	40.00	-7.07
60.070	Peak	46.35	-17.87	28.48	40.00	-11.52
127.000	Peak	46.82	-18.83	27.99	43.50	-15.51
139.610	Peak	46.13	-17.29	28.84	43.50	-14.66
348.160	Peak	41.57	-15.13	26.44	46.00	-19.56
408.300	Peak	39.71	-13.42	26.29	46.00	-19.71

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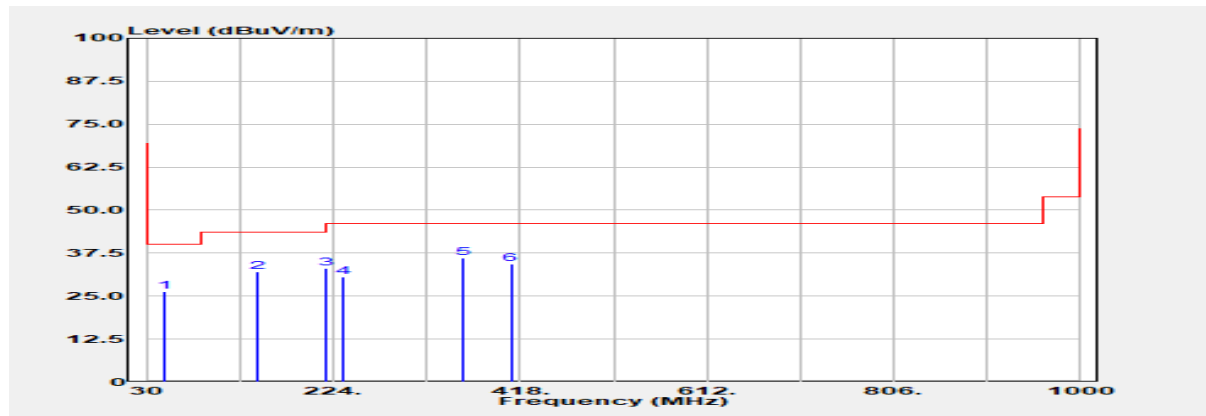
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Report Number :TERF2208001445E2  
 Operation Mode :BLE 2M  
 Test Frequency :2442 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :ABR-ANT-DF01

Test Site :SAC D  
 Test Date :2022-10-17  
 Temp./Humi. :19.9/65  
 Antenna Pol. :Horizontal  
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
48.430	Peak	43.78	-17.44	26.35	40.00	-13.65
144.460	Peak	48.96	-16.90	32.06	43.50	-11.44
216.240	Peak	53.04	-19.99	33.05	46.00	-12.95
233.700	Peak	49.38	-18.85	30.53	46.00	-15.47
359.800	Peak	50.39	-14.38	36.01	46.00	-9.99
408.300	Peak	47.66	-13.42	34.24	46.00	-11.76

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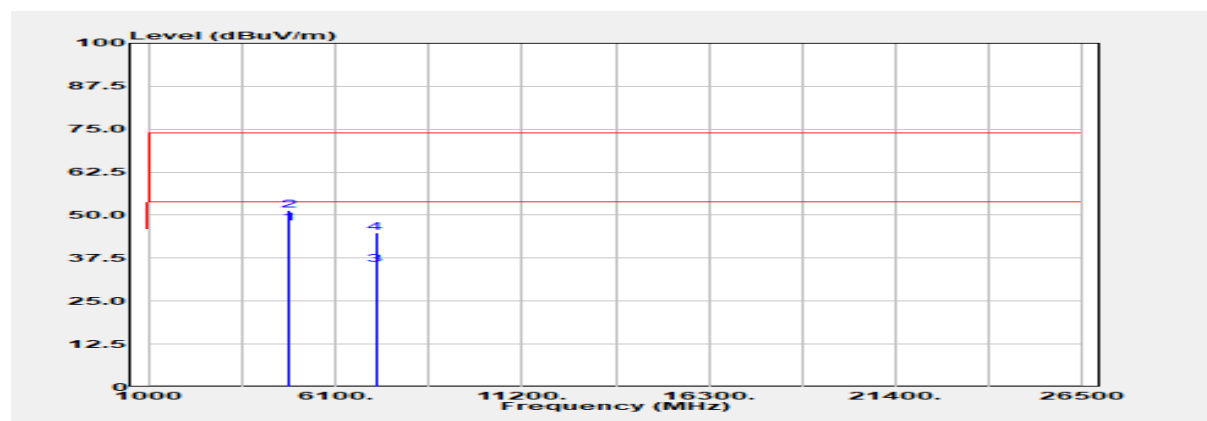
f (886-2) 2298-0488

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 1M  
 Test Frequency :2402 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :ABR-ANT-DF01

Test Site :SAC D  
 Test Date :2022-10-17  
 Temp./Humi. :19.9/65  
 Antenna Pol. :VERTICAL  
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4804.000	Average	47.91	-0.18	47.73	54.00	-6.27
4804.000	Peak	51.51	-0.18	51.33	74.00	-22.67
7206.000	Average	29.16	6.49	35.65	54.00	-18.35
7206.000	Peak	38.36	6.49	44.85	74.00	-29.15

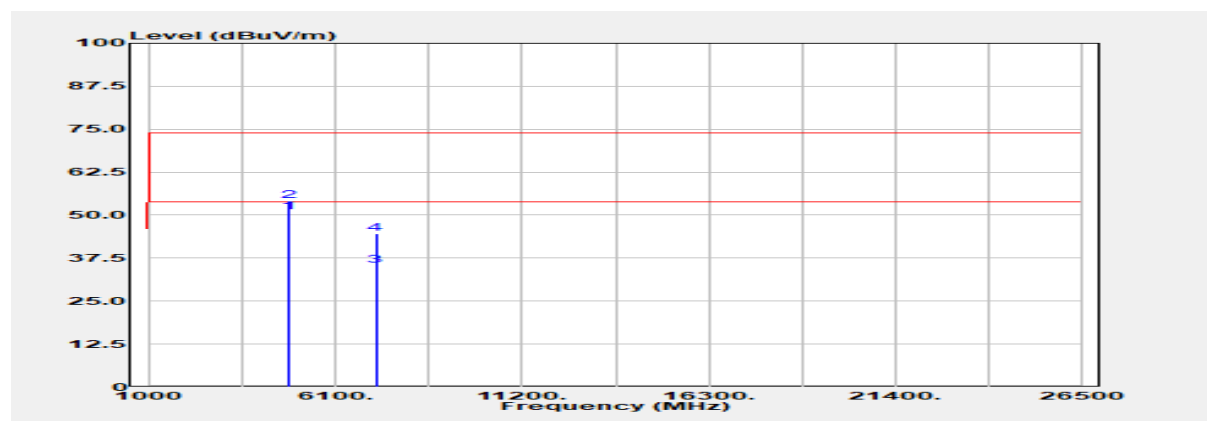
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Report Number :TERF2208001445E2  
 Operation Mode :BLE 1M  
 Test Frequency :2402 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :ABR-ANT-DF01

Test Site :SAC D  
 Test Date :2022-10-17  
 Temp./Humi. :19.9/65  
 Antenna Pol. :HORIZONTAL  
 Engineer :Howard Huang



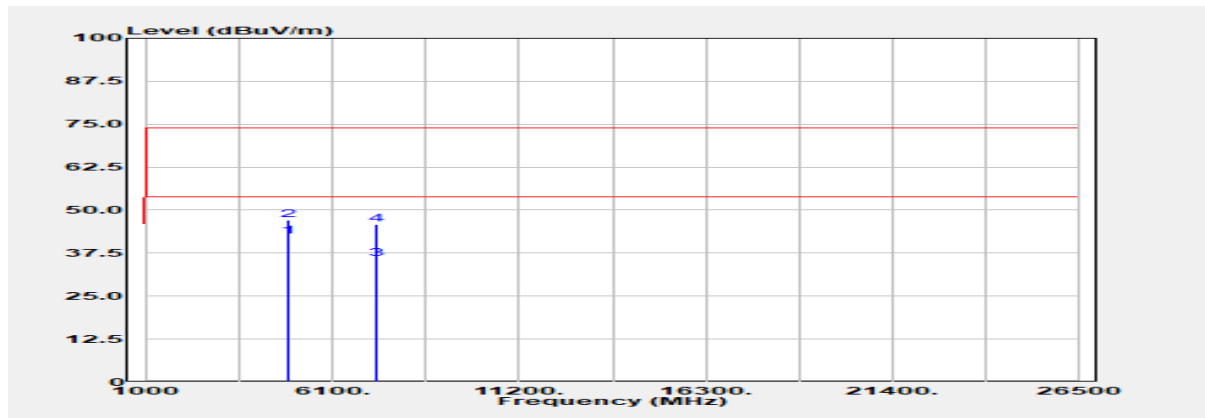
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4804.000	Average	51.09	-0.18	50.91	54.00	-3.09
4804.000	Peak	54.28	-0.18	54.11	74.00	-19.89
7206.000	Average	28.81	6.49	35.30	54.00	-18.70
7206.000	Peak	38.24	6.49	44.73	74.00	-29.27

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 1M  
 Test Frequency :2442 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :ABR-ANT-DF01

Test Site :SAC D  
 Test Date :2022-10-17  
 Temp./Humi. :19.9/65  
 Antenna Pol. :VERTICAL  
 Engineer :Howard Huang



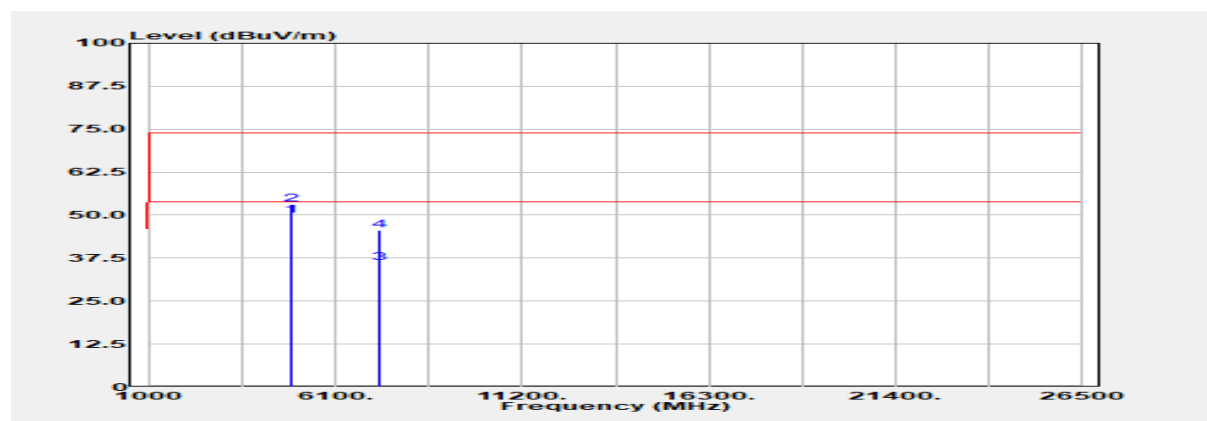
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4884.000	Average	42.65	-0.30	42.35	54.00	-11.65
4884.000	Peak	47.34	-0.30	47.04	74.00	-26.96
7326.000	Average	28.86	6.90	35.76	54.00	-18.24
7326.000	Peak	38.90	6.90	45.80	74.00	-28.20

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 1M  
 Test Frequency :2442 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :ABR-ANT-DF01

Test Site :SAC D  
 Test Date :2022-10-17  
 Temp./Humi. :19.9/65  
 Antenna Pol. :HORIZONTAL  
 Engineer :Howard Huang



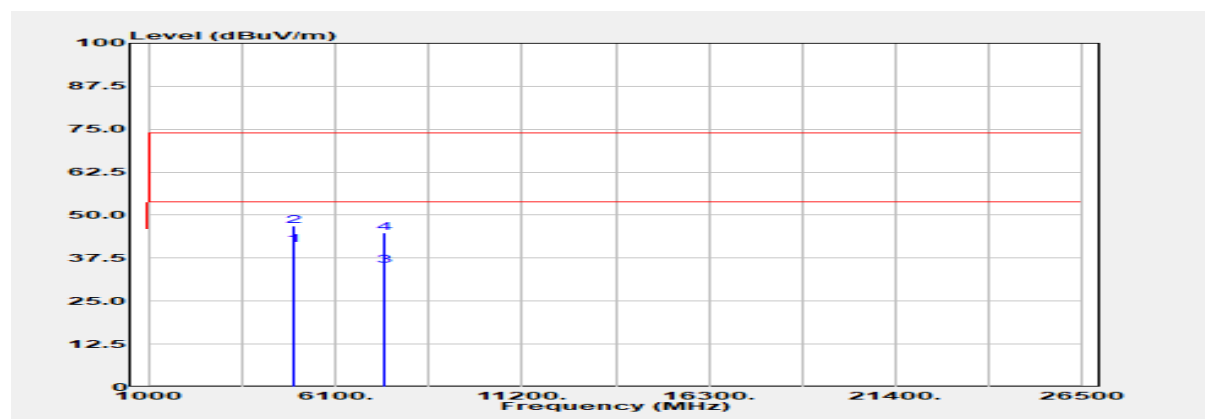
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4884.000	Average	50.18	-0.30	49.88	54.00	-4.12
4884.000	Peak	53.33	-0.30	53.03	74.00	-20.97
7326.000	Average	29.17	6.90	36.07	54.00	-17.93
7326.000	Peak	38.74	6.90	45.64	74.00	-28.36

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 1M  
 Test Frequency :2480 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :ABR-ANT-DF01

Test Site :SAC D  
 Test Date :2022-10-17  
 Temp./Humi. :19.9/65  
 Antenna Pol. :VERTICAL  
 Engineer :Howard Huang



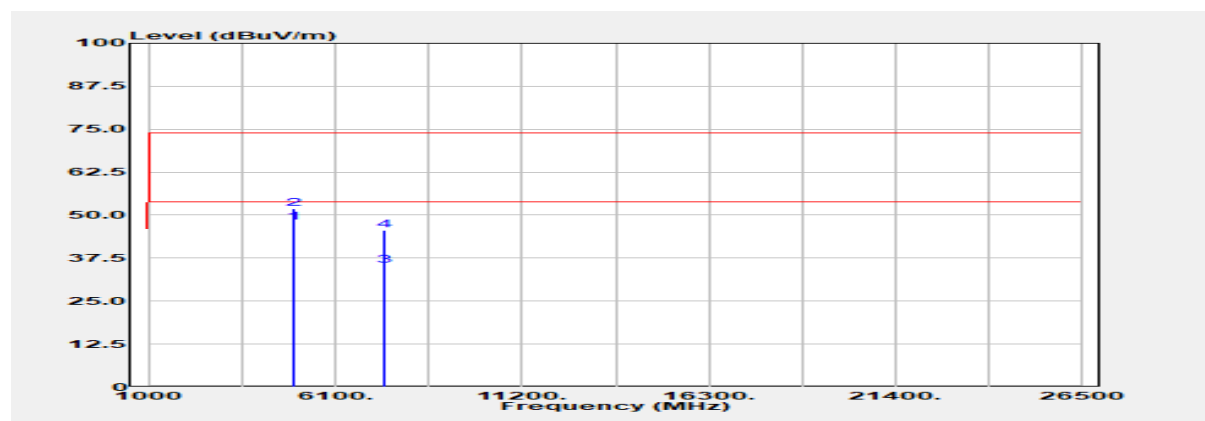
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4960.000	Average	41.08	0.40	41.47	54.00	-12.53
4960.000	Peak	46.44	0.40	46.84	74.00	-27.16
7440.000	Average	28.79	6.51	35.30	54.00	-18.70
7440.000	Peak	38.43	6.51	44.93	74.00	-29.07

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 1M  
 Test Frequency :2480 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :ABR-ANT-DF01

Test Site :SAC D  
 Test Date :2022-10-17  
 Temp./Humi. :19.9/65  
 Antenna Pol. :HORIZONTAL  
 Engineer :Howard Huang



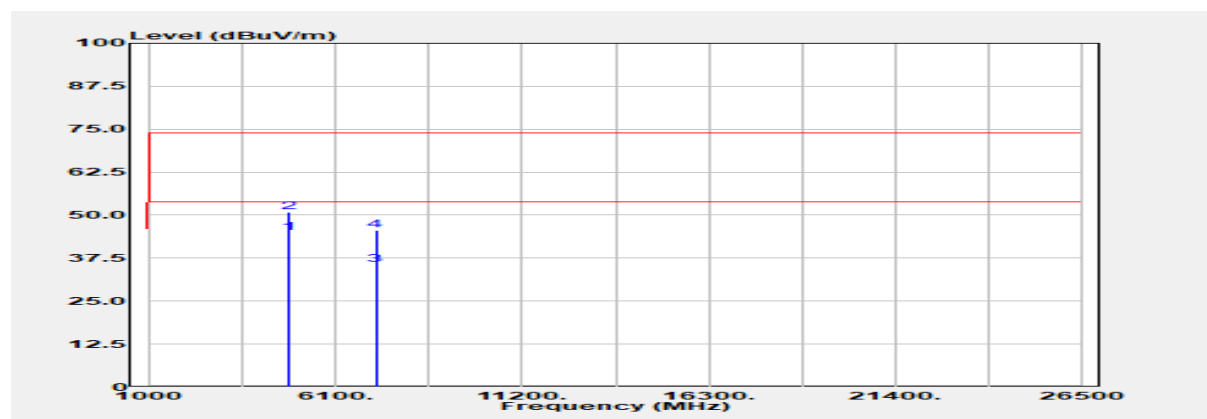
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4960.000	Average	47.60	0.40	47.99	54.00	-6.01
4960.000	Peak	51.36	0.40	51.76	74.00	-22.24
7440.000	Average	28.76	6.51	35.26	54.00	-18.74
7440.000	Peak	39.10	6.51	45.61	74.00	-28.39

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 2M  
 Test Frequency :2402 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :ABR-ANT-DF01

Test Site :SAC D  
 Test Date :2022-10-17  
 Temp./Humi. :19.9/65  
 Antenna Pol. :VERTICAL  
 Engineer :Howard Huang



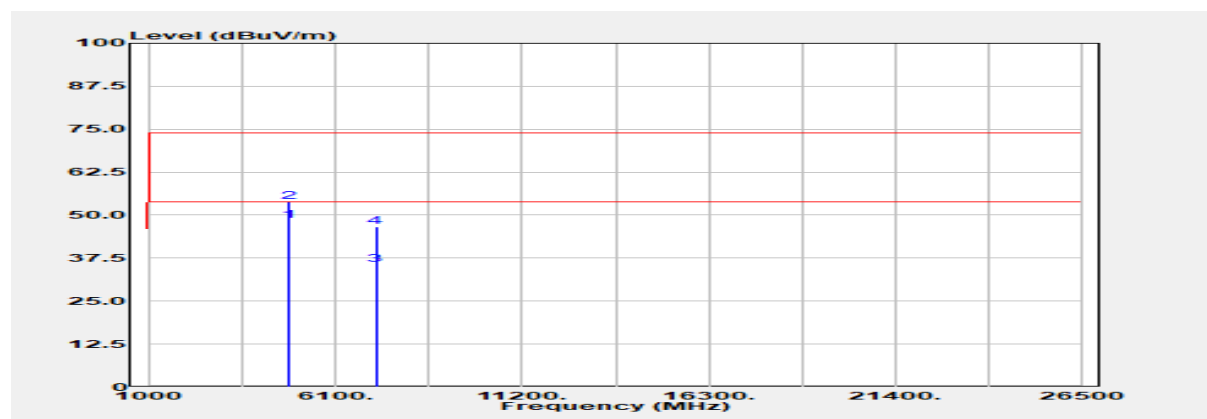
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.000	Average	45.01	-0.18	44.84	54.00	-9.16
4804.000	Peak	51.00	-0.18	50.82	74.00	-23.18
7206.000	Average	28.99	6.49	35.48	54.00	-18.52
7206.000	Peak	39.08	6.49	45.57	74.00	-28.43

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 2M  
 Test Frequency :2402 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :ABR-ANT-DF01

Test Site :SAC D  
 Test Date :2022-10-17  
 Temp./Humi. :19.9/65  
 Antenna Pol. :HORIZONTAL  
 Engineer :Howard Huang



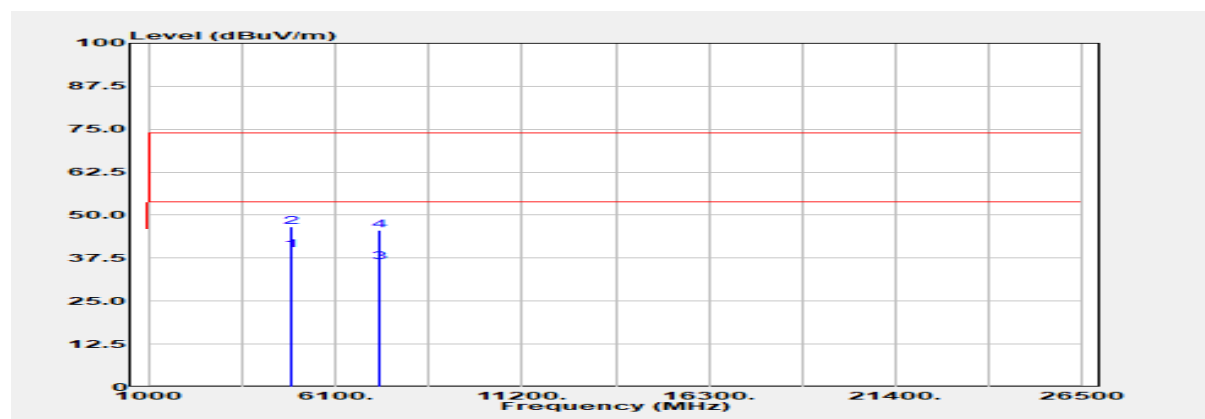
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4804.000	Average	48.59	-0.18	48.41	54.00	-5.59
4804.000	Peak	54.04	-0.18	53.86	74.00	-20.14
7206.000	Average	29.18	6.49	35.67	54.00	-18.33
7206.000	Peak	40.03	6.49	46.52	74.00	-27.48

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 2M  
 Test Frequency :2442 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :ABR-ANT-DF01

Test Site :SAC D  
 Test Date :2022-10-17  
 Temp./Humi. :19.9/65  
 Antenna Pol. :VERTICAL  
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4884.000	Average	40.15	-0.30	39.85	54.00	-14.15
4884.000	Peak	46.91	-0.30	46.61	74.00	-27.39
7326.000	Average	29.41	6.90	36.31	54.00	-17.69
7326.000	Peak	38.71	6.90	45.61	74.00	-28.39

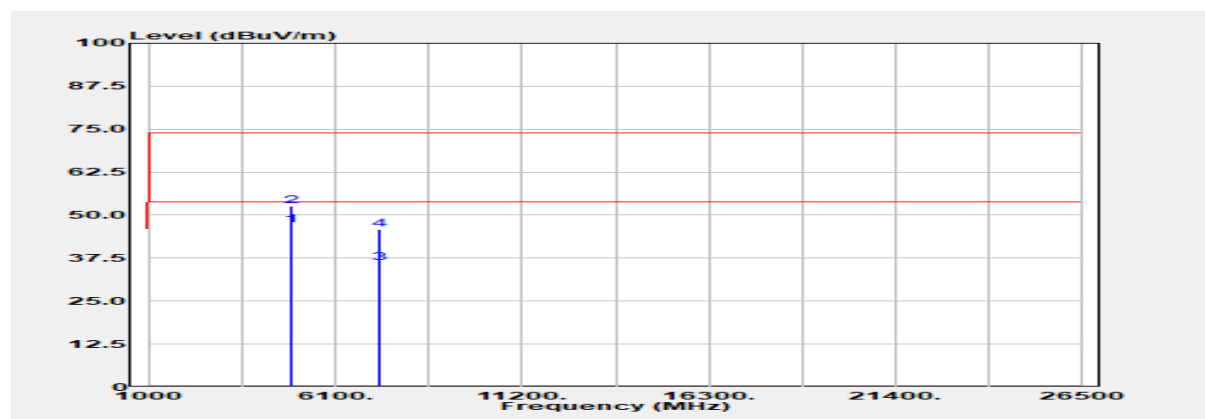
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Report Number :TERF2208001445E2  
 Operation Mode :BLE 2M  
 Test Frequency :2442 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :ABR-ANT-DF01

Test Site :SAC D  
 Test Date :2022-10-17  
 Temp./Humi. :19.9/65  
 Antenna Pol. :HORIZONTAL  
 Engineer :Howard Huang



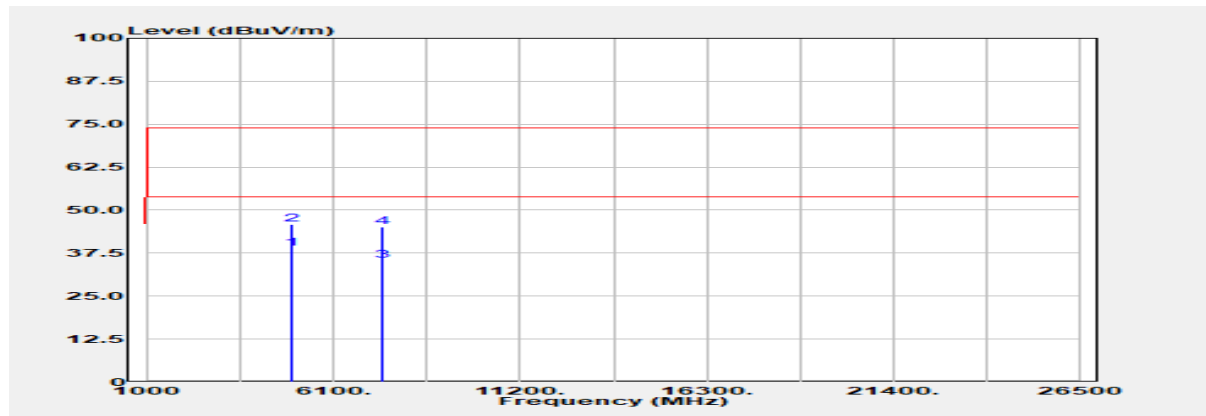
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4884.000	Average	47.49	-0.30	47.19	54.00	-6.81
4884.000	Peak	52.93	-0.30	52.63	74.00	-21.37
7326.000	Average	29.19	6.90	36.09	54.00	-17.91
7326.000	Peak	38.91	6.90	45.81	74.00	-28.19

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 2M  
 Test Frequency :2480 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :ABR-ANT-DF01

Test Site :SAC D  
 Test Date :2022-10-17  
 Temp./Humi. :19.9/65  
 Antenna Pol. :VERTICAL  
 Engineer :Howard Huang



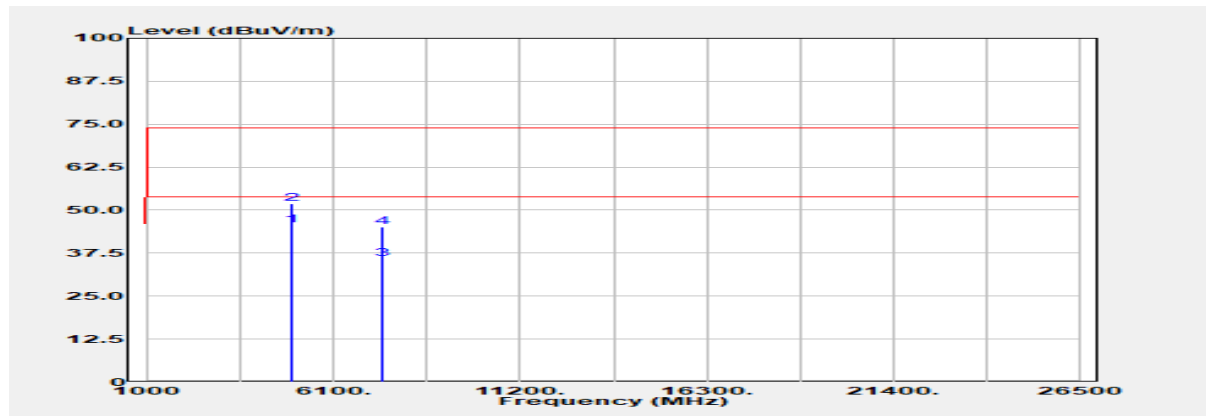
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4960.000	Average	38.53	0.40	38.92	54.00	-15.08
4960.000	Peak	45.58	0.40	45.98	74.00	-28.02
7440.000	Average	28.95	6.51	35.45	54.00	-18.55
7440.000	Peak	38.59	6.51	45.09	74.00	-28.91

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 2M  
 Test Frequency :2480 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :ABR-ANT-DF01

Test Site :SAC D  
 Test Date :2022-10-17  
 Temp./Humi. :19.9/65  
 Antenna Pol. :HORIZONTAL  
 Engineer :Howard Huang



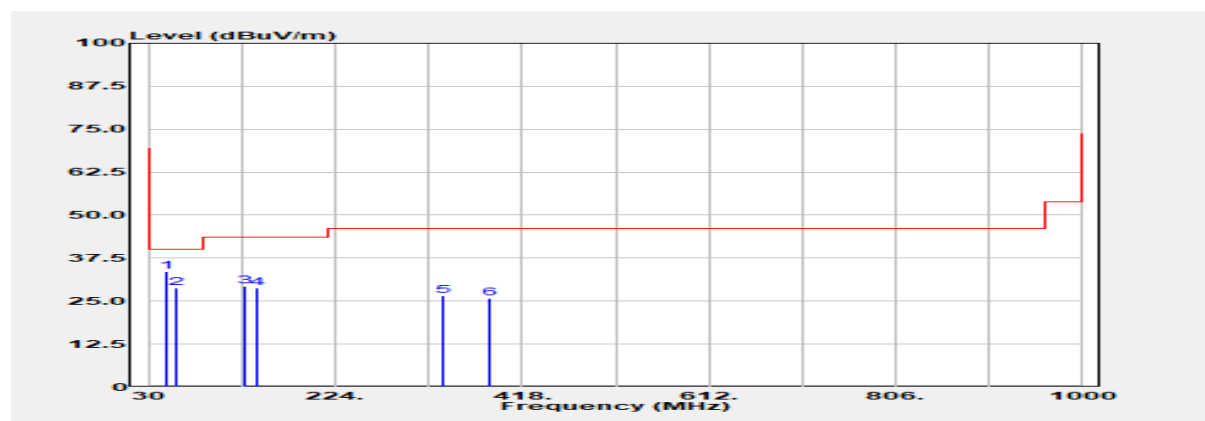
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4960.000	Average	45.20	0.40	45.59	54.00	-8.41
4960.000	Peak	51.45	0.40	51.84	74.00	-22.16
7440.000	Average	29.30	6.51	35.80	54.00	-18.20
7440.000	Peak	38.50	6.51	45.01	74.00	-28.99

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Report Number :TERF2208001445E2  
Operation Mode :BLE 1M  
Test Frequency :2442 MHz  
Test Mode :TX  
EUT Pol :E2 Plane  
Note :ASC\_RFANT3216120A5T

Test Site :SAC D  
Test Date :2022-10-17  
Temp./Humi. :19.9/65  
Antenna Pol. :Vertical  
Engineer :Howard Huang



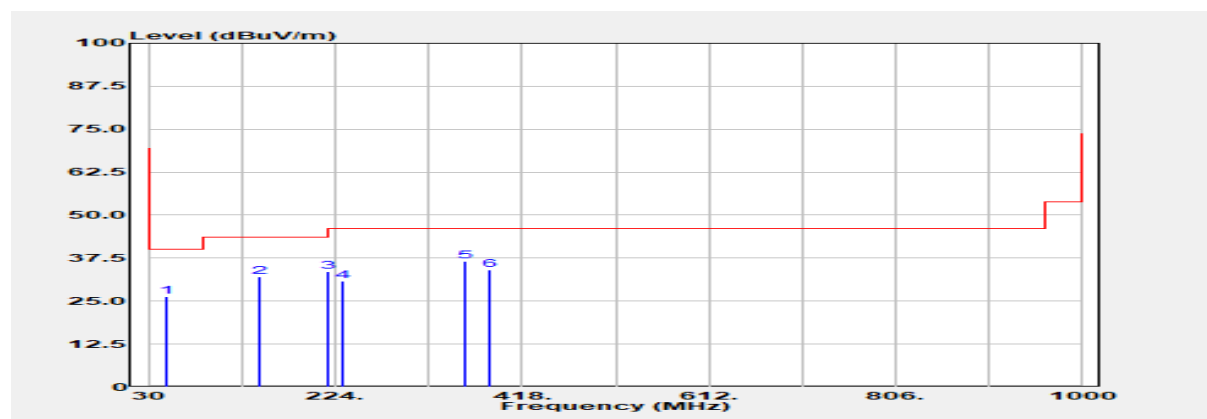
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
48.430	Peak	51.10	-17.44	33.66	40.00	-6.34
60.070	Peak	46.66	-17.87	28.79	40.00	-11.21
128.940	Peak	47.88	-18.61	29.27	43.50	-14.23
142.520	Peak	45.70	-16.98	28.72	43.50	-14.78
336.520	Peak	42.11	-15.43	26.68	46.00	-19.32
383.080	Peak	39.73	-13.81	25.92	46.00	-20.08

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 1M  
 Test Frequency :2442 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :ASC\_RFANT3216120A5T

Test Site :SAC D  
 Test Date :2022-10-17  
 Temp./Humi. :19.9/65  
 Antenna Pol. :Horizontal  
 Engineer :Howard Huang



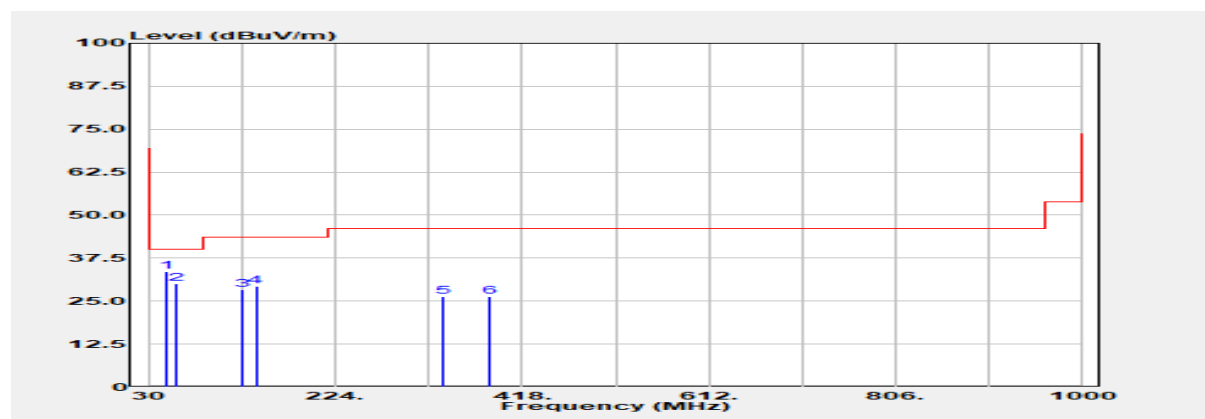
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
48.430	Peak	43.72	-17.44	26.29	40.00	-13.71
145.430	Peak	48.99	-16.98	32.01	43.50	-11.49
216.240	Peak	53.48	-19.99	33.48	46.00	-12.52
232.730	Peak	49.78	-18.99	30.79	46.00	-15.21
359.800	Peak	51.00	-14.38	36.63	46.00	-9.37
384.050	Peak	47.85	-13.81	34.04	46.00	-11.96

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Report Number :TERF2208001445E2  
Operation Mode :BLE 2M  
Test Frequency :2442 MHz  
Test Mode :TX  
EUT Pol :E2 Plane  
Note :ASC\_RFANT3216120A5T

Test Site :SAC D  
Test Date :2022-10-17  
Temp./Humi. :19.9/65  
Antenna Pol. :Vertical  
Engineer :Howard Huang



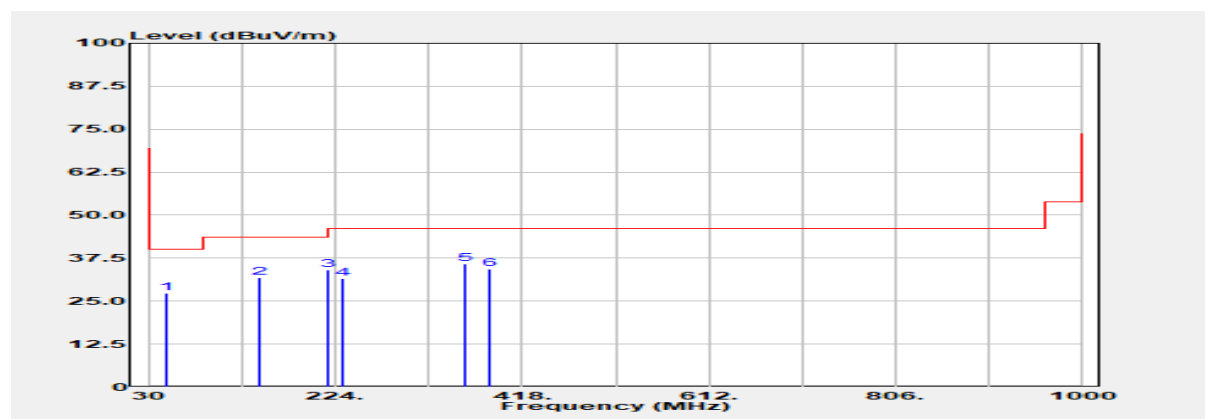
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
48.430	Peak	51.11	-17.44	33.67	40.00	-6.33
60.070	Peak	48.03	-17.87	30.16	40.00	-9.84
127.970	Peak	47.26	-18.82	28.44	43.50	-15.06
141.550	Peak	46.35	-17.14	29.21	43.50	-14.29
336.520	Peak	41.80	-15.43	26.37	46.00	-19.63
384.050	Peak	40.01	-13.81	26.19	46.00	-19.81

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Report Number :TERF2208001445E2  
Operation Mode :BLE 2M  
Test Frequency :2442 MHz  
Test Mode :TX  
EUT Pol :E2 Plane  
Note :ASC\_RFANT3216120A5T

Test Site :SAC D  
Test Date :2022-10-17  
Temp./Humi. :19.9/65  
Antenna Pol. :Horizontal  
Engineer :Howard Huang



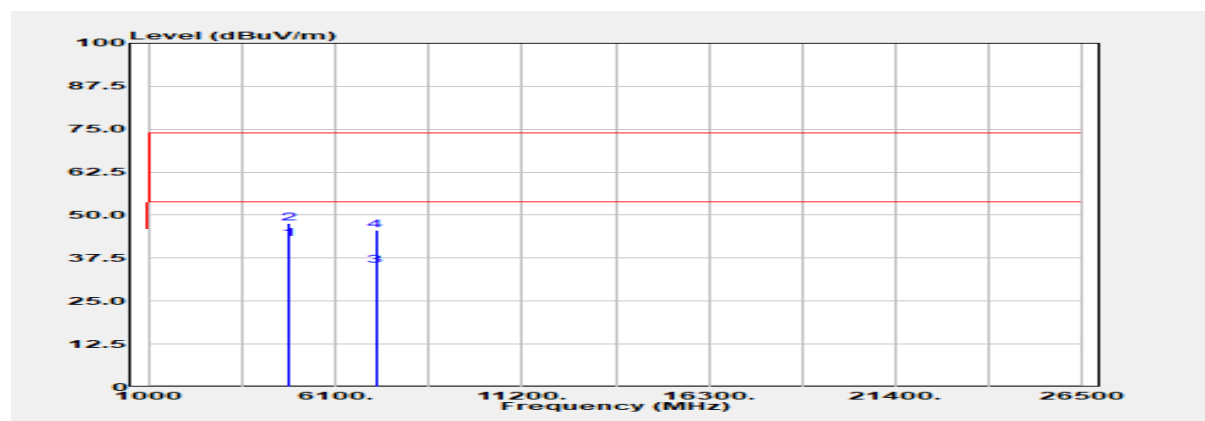
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
48.430	Peak	44.64	-17.44	27.21	40.00	-12.79
144.460	Peak	48.85	-16.90	31.95	43.50	-11.55
216.240	Peak	54.09	-19.99	34.09	46.00	-11.91
232.730	Peak	50.45	-18.99	31.46	46.00	-14.54
359.800	Peak	50.29	-14.38	35.91	46.00	-10.09
384.050	Peak	48.08	-13.81	34.26	46.00	-11.74

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 1M  
 Test Frequency :2402 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :ASC\_RFANT3216120A5T

Test Site :SAC D  
 Test Date :2022-10-17  
 Temp./Humi. :19.9/65  
 Antenna Pol. :VERTICAL  
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4804.000	Average	43.22	-0.18	43.04	54.00	-10.96
4804.000	Peak	47.71	-0.18	47.54	74.00	-26.46
7206.000	Average	28.89	6.49	35.37	54.00	-18.63
7206.000	Peak	39.06	6.49	45.55	74.00	-28.45

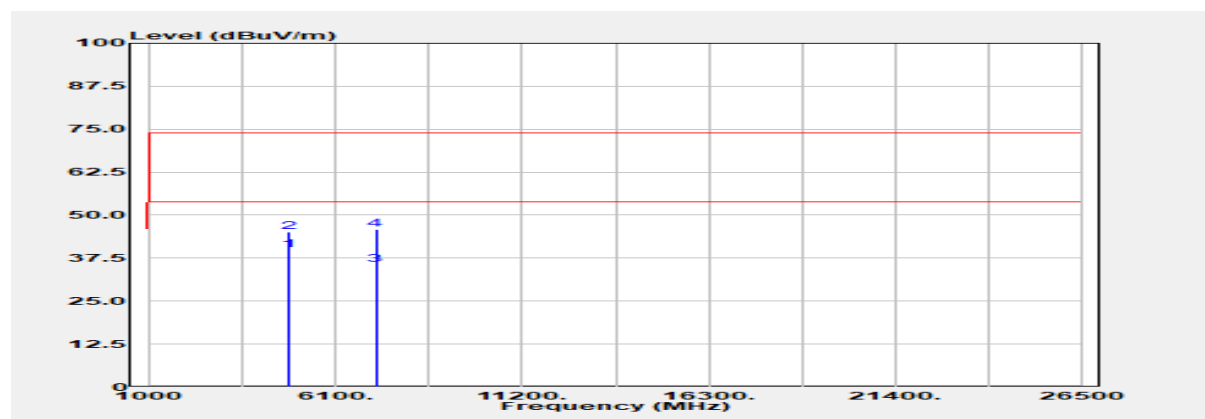
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Report Number :TERF2208001445E2  
 Operation Mode :BLE 1M  
 Test Frequency :2402 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :ASC\_RFANT3216120A5T

Test Site :SAC D  
 Test Date :2022-10-17  
 Temp./Humi. :19.9/65  
 Antenna Pol. :HORIZONTAL  
 Engineer :Howard Huang



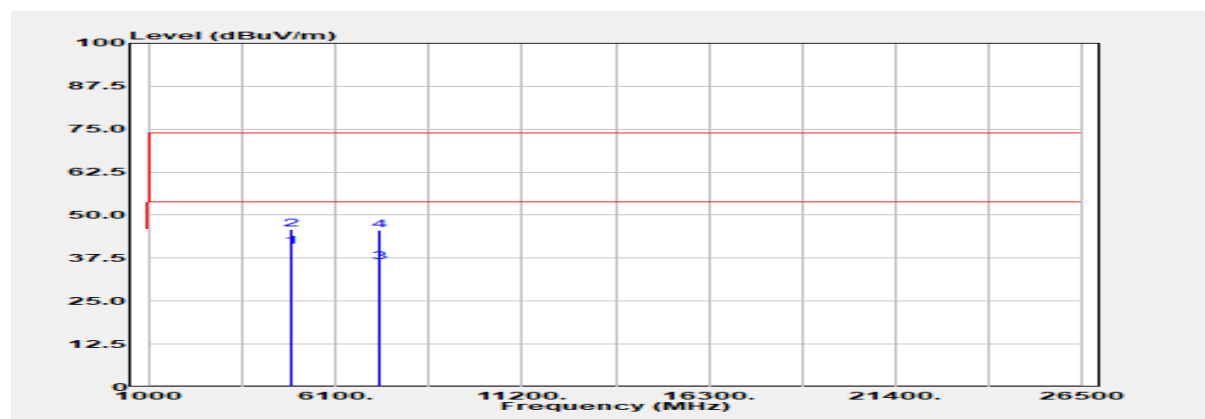
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4804.000	Average	39.91	-0.18	39.73	54.00	-14.27
4804.000	Peak	45.29	-0.18	45.11	74.00	-28.89
7206.000	Average	29.00	6.49	35.49	54.00	-18.51
7206.000	Peak	39.27	6.49	45.76	74.00	-28.24

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 1M  
 Test Frequency :2442 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :ASC\_RFANT3216120A5T

Test Site :SAC D  
 Test Date :2022-10-17  
 Temp./Humi. :19.9/65  
 Antenna Pol. :VERTICAL  
 Engineer :Howard Huang



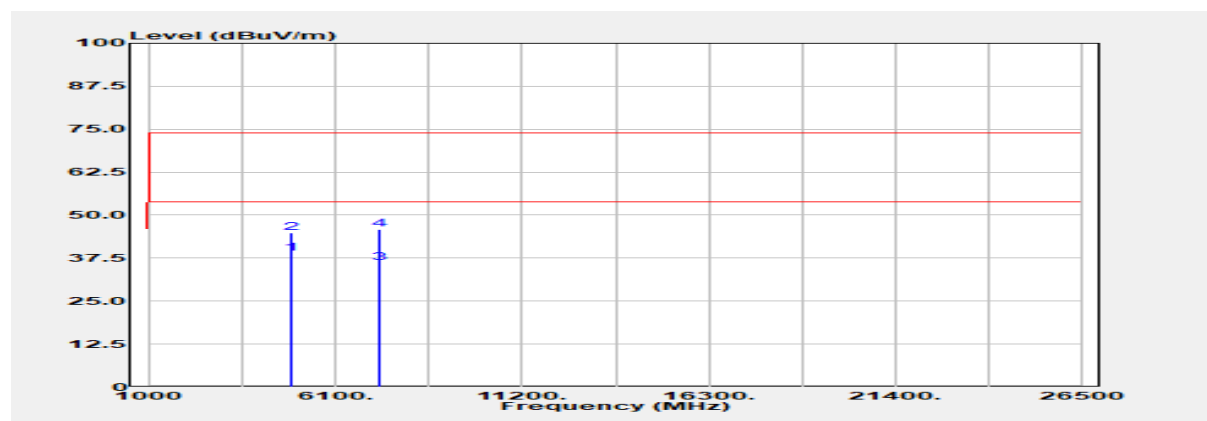
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4884.000	Average	41.17	-0.30	40.87	54.00	-13.13
4884.000	Peak	46.27	-0.30	45.97	74.00	-28.03
7326.000	Average	29.35	6.90	36.25	54.00	-17.75
7326.000	Peak	38.68	6.90	45.57	74.00	-28.43

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 1M  
 Test Frequency :2442 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :ASC\_RFANT3216120A5T

Test Site :SAC D  
 Test Date :2022-10-17  
 Temp./Humi. :19.9/65  
 Antenna Pol. :HORIZONTAL  
 Engineer :Howard Huang



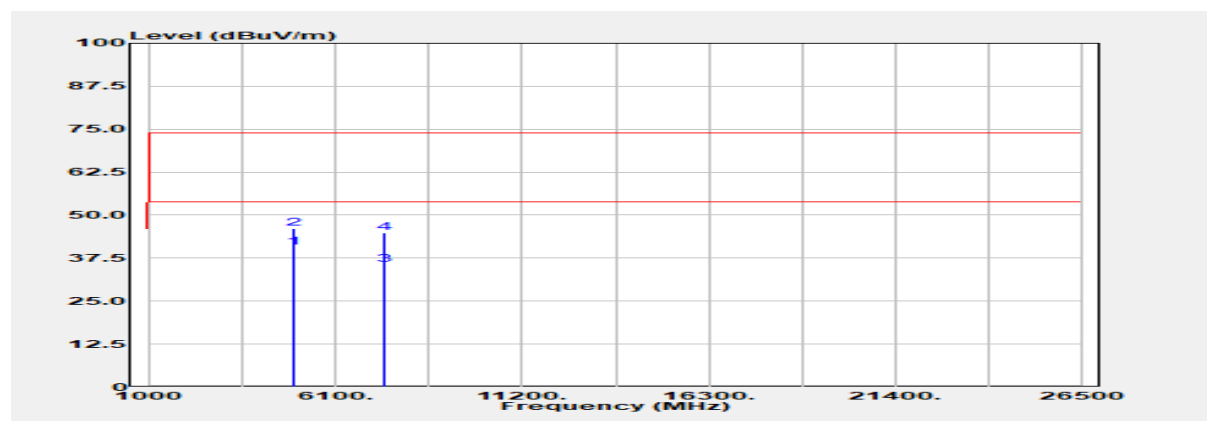
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4884.000	Average	39.22	-0.30	38.92	54.00	-15.08
4884.000	Peak	45.06	-0.30	44.76	74.00	-29.24
7326.000	Average	29.19	6.90	36.09	54.00	-17.91
7326.000	Peak	39.04	6.90	45.94	74.00	-28.06

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Report Number :TERF2208001445E2  
Operation Mode :BLE 1M  
Test Frequency :2480 MHz  
Test Mode :TX  
EUT Pol :E2 Plane  
Note :ASC\_RFANT3216120A5T

Test Site :SAC D  
Test Date :2022-10-17  
Temp./Humi. :19.9/65  
Antenna Pol. :VERTICAL  
Engineer :Howard Huang



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	40.12	0.40	40.51	54.00	-13.49
4960.000	Peak	45.75	0.40	46.15	74.00	-27.85
7440.000	Average	29.13	6.51	35.63	54.00	-18.37
7440.000	Peak	38.31	6.51	44.82	74.00	-29.18

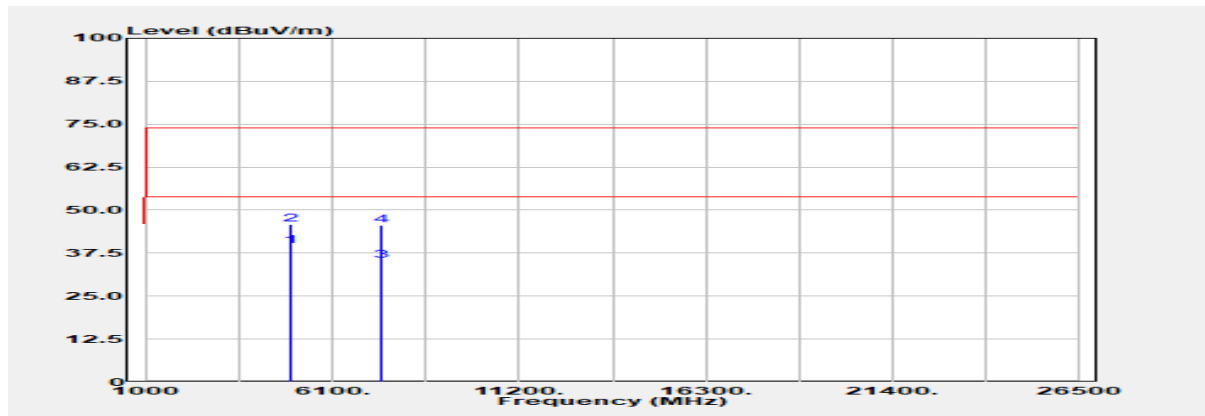
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Report Number :TERF2208001445E2  
 Operation Mode :BLE 1M  
 Test Frequency :2480 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :ASC\_RFANT3216120A5T

Test Site :SAC D  
 Test Date :2022-10-17  
 Temp./Humi. :19.9/65  
 Antenna Pol. :HORIZONTAL  
 Engineer :Howard Huang



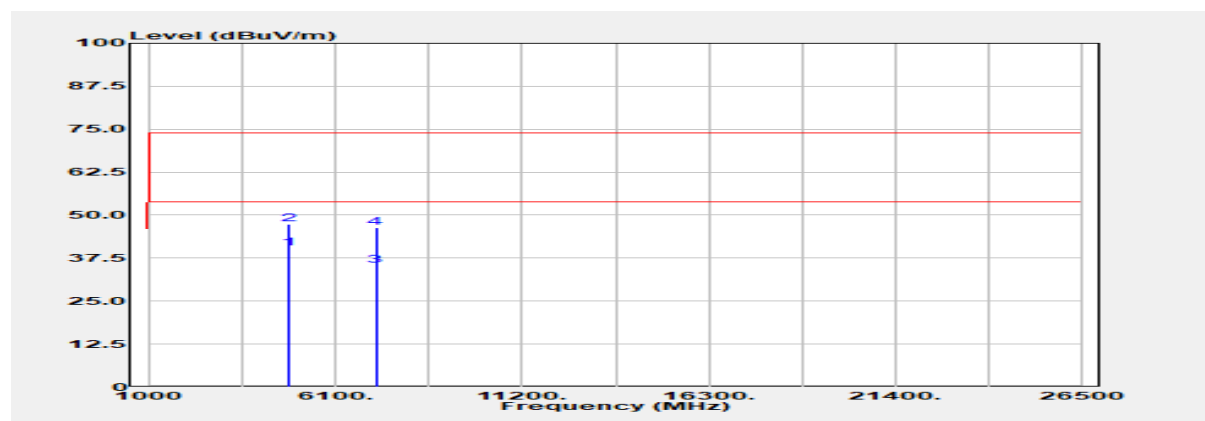
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4960.000	Average	39.23	0.40	39.63	54.00	-14.37
4960.000	Peak	45.48	0.40	45.88	74.00	-28.12
7440.000	Average	28.72	6.51	35.23	54.00	-18.77
7440.000	Peak	39.02	6.51	45.53	74.00	-28.47

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Report Number :TERF2208001445E2  
Operation Mode :BLE 2M  
Test Frequency :2402 MHz  
Test Mode :TX  
EUT Pol :E2 Plane  
Note :ASC\_RFANT3216120A5T

Test Site :SAC D  
Test Date :2022-10-17  
Temp./Humi. :19.9/65  
Antenna Pol. :VERTICAL  
Engineer :Howard Huang



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	40.62	-0.18	40.45	54.00	-13.55
4804.000	Peak	47.52	-0.18	47.34	74.00	-26.66
7206.000	Average	28.85	6.49	35.34	54.00	-18.66
7206.000	Peak	39.91	6.49	46.40	74.00	-27.60

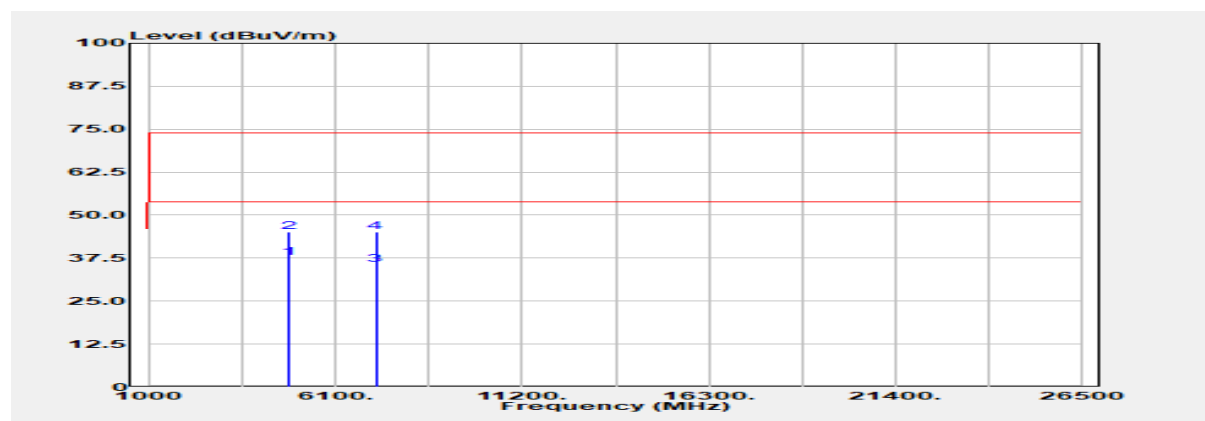
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Report Number :TERF2208001445E2  
 Operation Mode :BLE 2M  
 Test Frequency :2402 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :ASC\_RFANT3216120A5T

Test Site :SAC D  
 Test Date :2022-10-17  
 Temp./Humi. :19.9/65  
 Antenna Pol. :HORIZONTAL  
 Engineer :Howard Huang



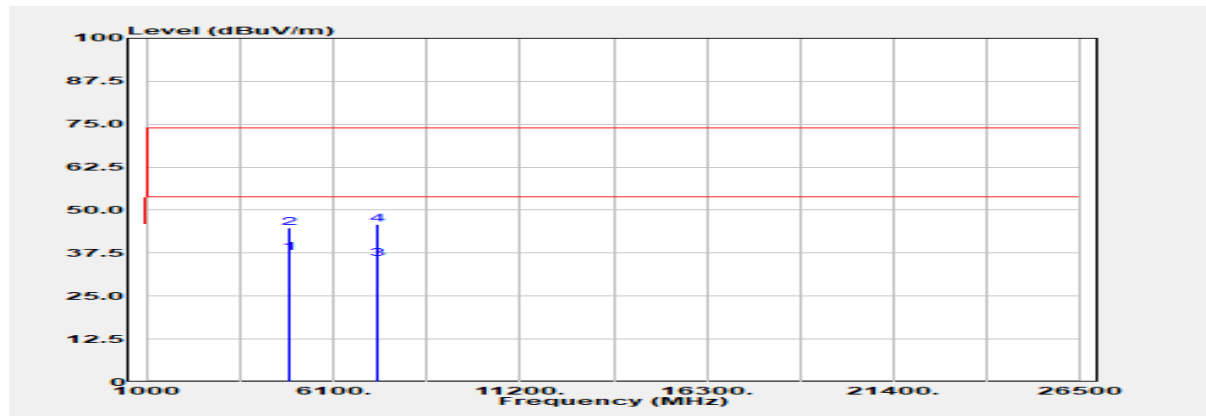
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4804.000	Average	37.75	-0.18	37.57	54.00	-16.43
4804.000	Peak	45.28	-0.18	45.10	74.00	-28.90
7206.000	Average	29.14	6.49	35.63	54.00	-18.37
7206.000	Peak	38.73	6.49	45.22	74.00	-28.78

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 2M  
 Test Frequency :2442 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :ASC\_RFANT3216120A5T

Test Site :SAC D  
 Test Date :2022-10-17  
 Temp./Humi. :19.9/65  
 Antenna Pol. :VERTICAL  
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4884.000	Average	37.83	-0.30	37.53	54.00	-16.47
4884.000	Peak	45.13	-0.30	44.83	74.00	-29.17
7326.000	Average	28.96	6.90	35.86	54.00	-18.14
7326.000	Peak	38.93	6.90	45.83	74.00	-28.17

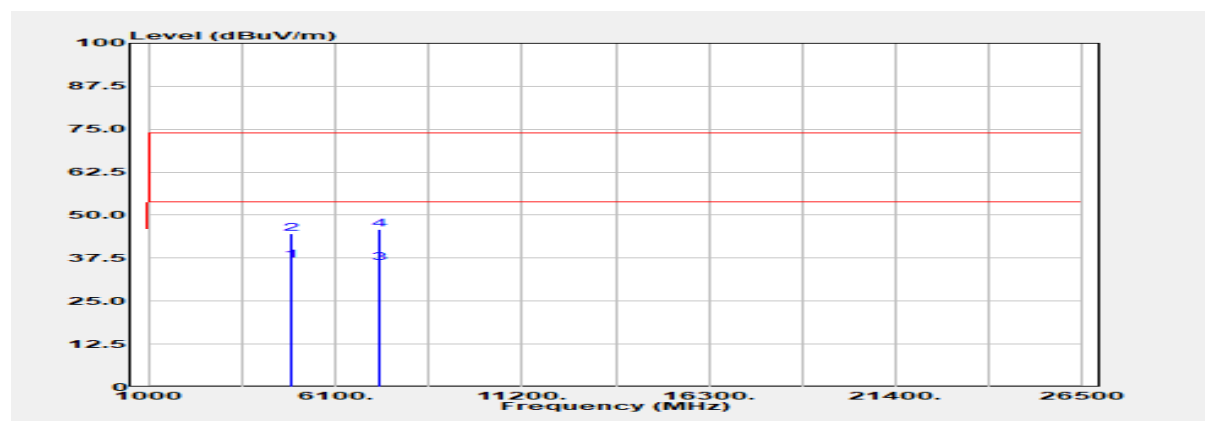
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Report Number :TERF2208001445E2  
Operation Mode :BLE 2M  
Test Frequency :2442 MHz  
Test Mode :TX  
EUT Pol :E2 Plane  
Note :ASC\_RFANT3216120A5T

Test Site :SAC D  
Test Date :2022-10-17  
Temp./Humi. :19.9/65  
Antenna Pol. :HORIZONTAL  
Engineer :Howard Huang



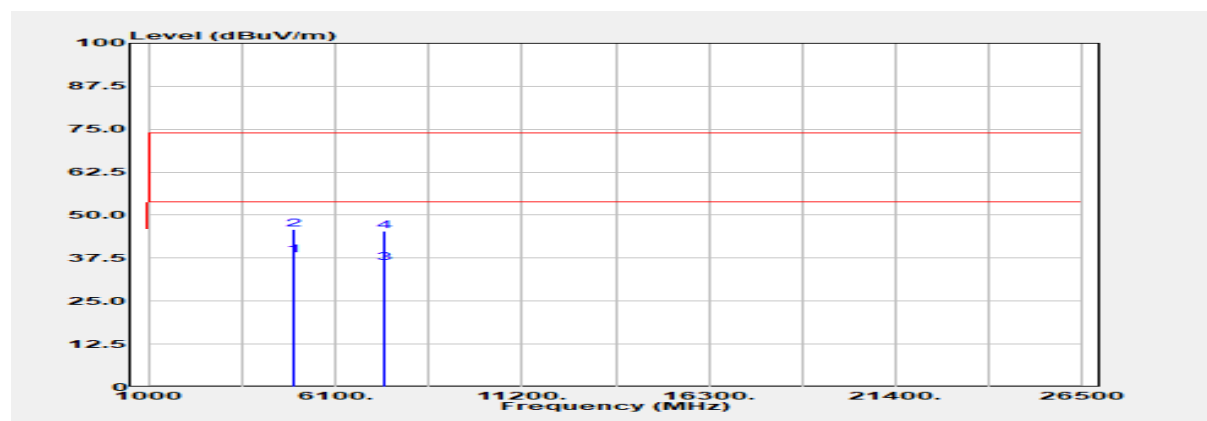
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4884.000	Average	37.26	-0.30	36.96	54.00	-17.04
4884.000	Peak	44.99	-0.30	44.69	74.00	-29.31
7326.000	Average	29.21	6.90	36.11	54.00	-17.89
7326.000	Peak	38.93	6.90	45.83	74.00	-28.17

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Report Number :TERF2208001445E2  
Operation Mode :BLE 2M  
Test Frequency :2480 MHz  
Test Mode :TX  
EUT Pol :E2 Plane  
Note :ASC\_RFANT3216120A5T

Test Site :SAC D  
Test Date :2022-10-17  
Temp./Humi. :19.9/65  
Antenna Pol. :VERTICAL  
Engineer :Howard Huang



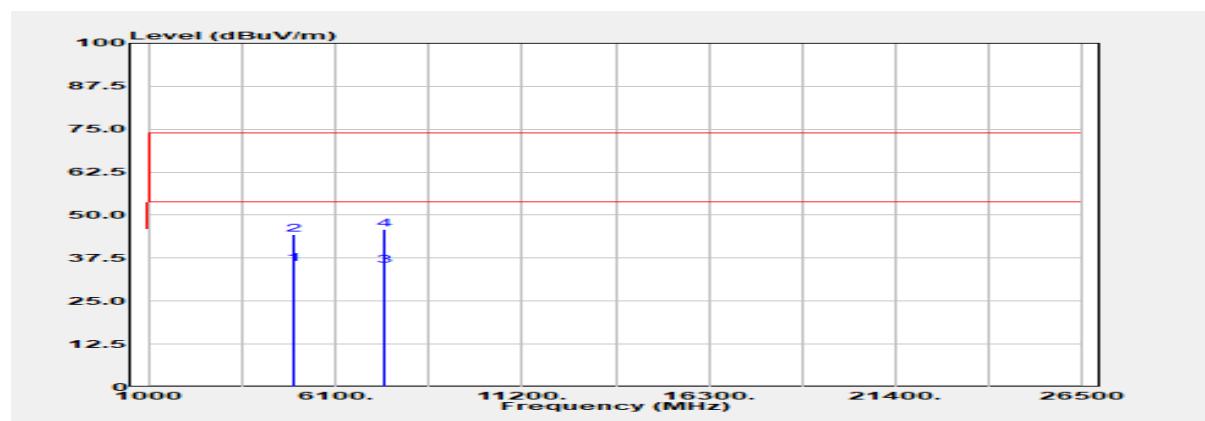
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4960.000	Average	38.04	0.40	38.43	54.00	-15.57
4960.000	Peak	45.46	0.40	45.86	74.00	-28.14
7440.000	Average	29.46	6.51	35.96	54.00	-18.04
7440.000	Peak	38.89	6.51	45.40	74.00	-28.60

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Report Number :TERF2208001445E2  
Operation Mode :BLE 2M  
Test Frequency :2480 MHz  
Test Mode :TX  
EUT Pol :E2 Plane  
Note :ASC\_RFANT3216120A5T

Test Site :SAC D  
Test Date :2022-10-17  
Temp./Humi. :19.9/65  
Antenna Pol. :HORIZONTAL  
Engineer :Howard Huang



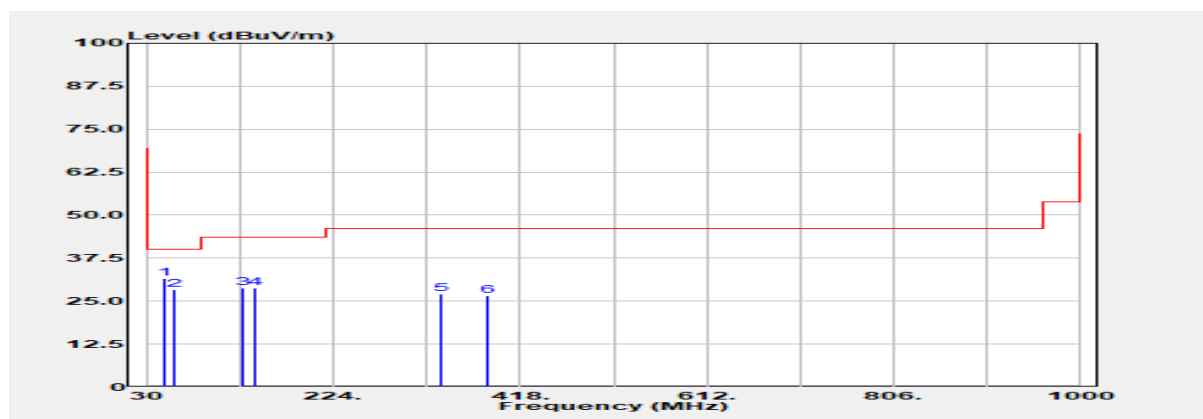
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.000	Average	35.45	0.40	35.85	54.00	-18.15
4960.000	Peak	43.88	0.40	44.27	74.00	-29.73
7440.000	Average	28.79	6.51	35.29	54.00	-18.71
7440.000	Peak	39.30	6.51	45.81	74.00	-28.19

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 1M  
 Test Frequency :2442 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :RFDPA131010EMAB301

Test Site :SAC D  
 Test Date :2022-10-17  
 Temp./Humi. :19.9/65  
 Antenna Pol. :Vertical  
 Engineer :Howard Huang



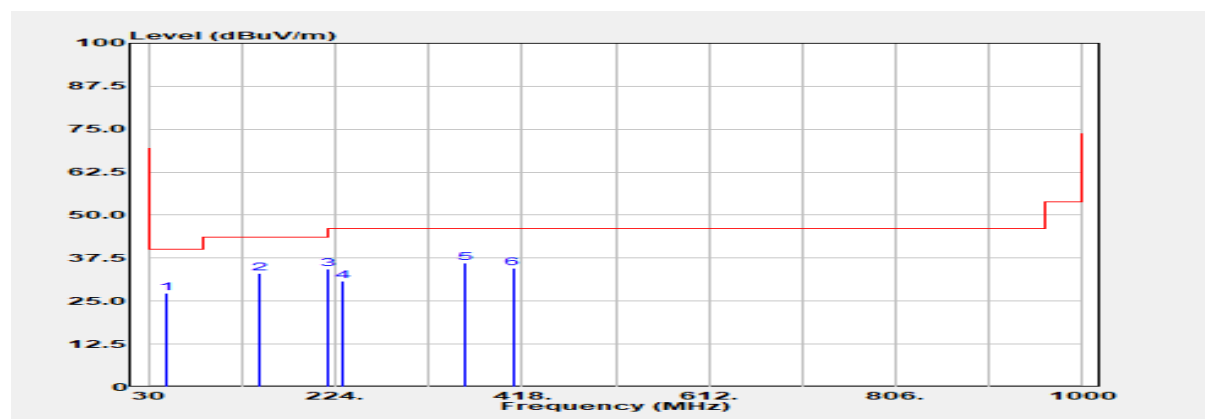
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
48.430	Peak	49.04	-17.44	31.60	40.00	-8.40
60.070	Peak	46.25	-17.87	28.38	40.00	-11.62
128.940	Peak	47.53	-18.61	28.92	43.50	-14.58
142.520	Peak	45.83	-16.98	28.85	43.50	-14.65
336.520	Peak	42.59	-15.43	27.16	46.00	-18.84
384.050	Peak	40.35	-13.81	26.54	46.00	-19.46

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Report Number :TERF2208001445E2  
Operation Mode :BLE 1M  
Test Frequency :2442 MHz  
Test Mode :TX  
EUT Pol :E2 Plane  
Note :RFDPA131010EMAB301

Test Site :SAC D  
Test Date :2022-10-17  
Temp./Humi. :19.9/65  
Antenna Pol. :Horizontal  
Engineer :Howard Huang



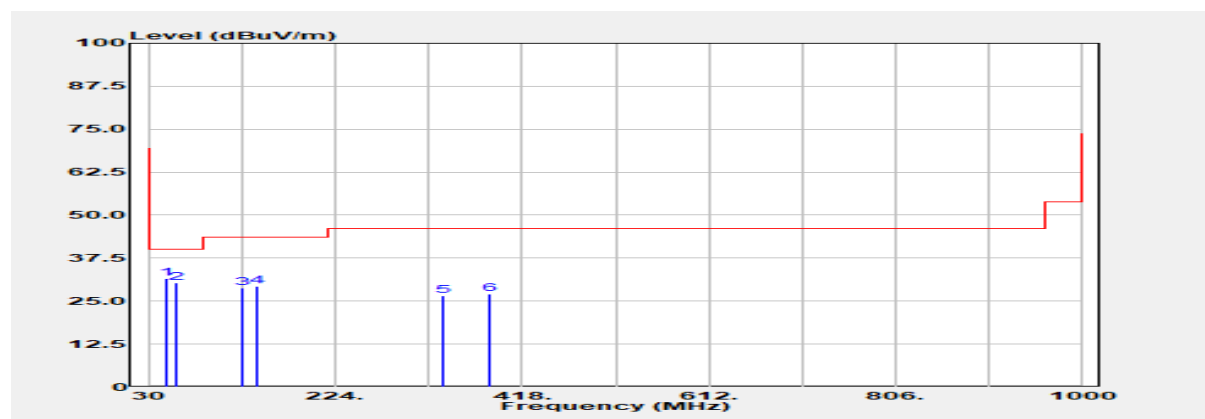
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
48.430	Peak	44.82	-17.44	27.38	40.00	-12.62
144.460	Peak	50.06	-16.90	33.16	43.50	-10.34
216.240	Peak	54.44	-19.99	34.45	46.00	-11.55
232.730	Peak	49.84	-18.99	30.85	46.00	-15.15
359.800	Peak	50.57	-14.38	36.19	46.00	-9.81
408.300	Peak	47.98	-13.42	34.55	46.00	-11.45

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 2M  
 Test Frequency :2442 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :RFDPA131010EMAB301

Test Site :SAC D  
 Test Date :2022-10-17  
 Temp./Humi. :19.9/65  
 Antenna Pol. :Vertical  
 Engineer :Howard Huang



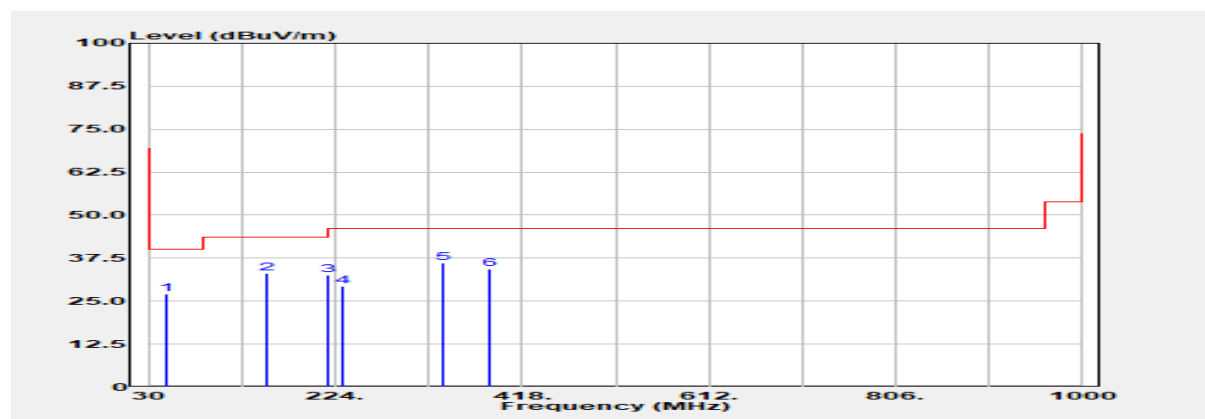
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
48.430	Peak	49.01	-17.44	31.57	40.00	-8.43
60.070	Peak	48.18	-17.87	30.31	40.00	-9.69
127.970	Peak	47.66	-18.82	28.85	43.50	-14.65
142.520	Peak	46.20	-16.98	29.22	43.50	-14.28
336.520	Peak	42.06	-15.43	26.63	46.00	-19.37
384.050	Peak	40.80	-13.81	26.99	46.00	-19.01

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 2M  
 Test Frequency :2442 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :RFDPA131010EMAB301

Test Site :SAC D  
 Test Date :2022-10-17  
 Temp./Humi. :19.9/65  
 Antenna Pol. :Horizontal  
 Engineer :Howard Huang



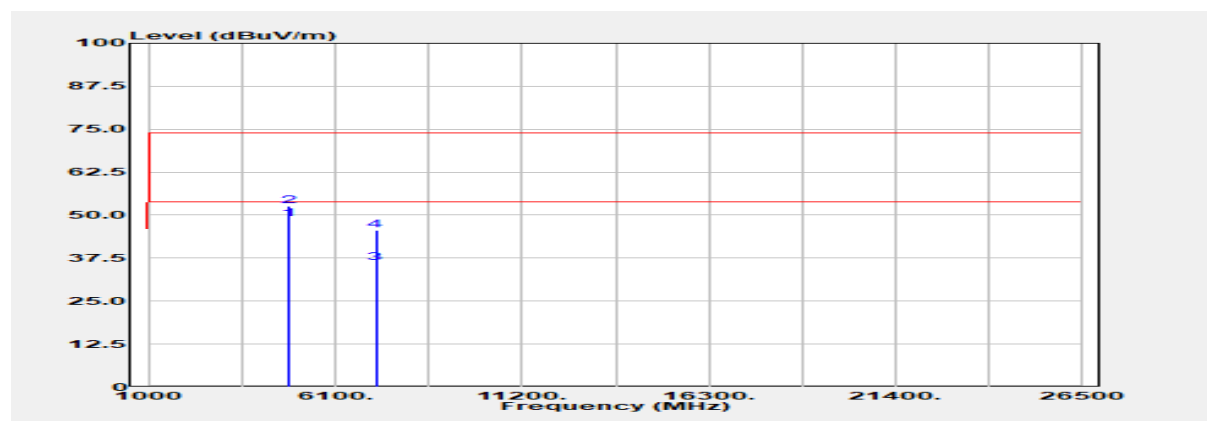
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
48.430	Peak	44.54	-17.44	27.10	40.00	-12.90
152.220	Peak	49.59	-16.48	33.11	43.50	-10.39
216.240	Peak	52.45	-19.99	32.46	46.00	-13.54
232.730	Peak	48.29	-18.99	29.30	46.00	-16.70
335.550	Peak	51.54	-15.41	36.14	46.00	-9.86
384.050	Peak	48.11	-13.81	34.29	46.00	-11.71

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 1M  
 Test Frequency :2402 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :RFDPA131010EMAB301

Test Site :SAC D  
 Test Date :2022-10-17  
 Temp./Humi. :19.9/65  
 Antenna Pol. :VERTICAL  
 Engineer :Howard Huang



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	49.15	-0.18	48.97	54.00	-5.03
4804.000	Peak	52.88	-0.18	52.70	74.00	-21.30
7206.000	Average	29.66	6.49	36.15	54.00	-17.85
7206.000	Peak	39.15	6.49	45.64	74.00	-28.36

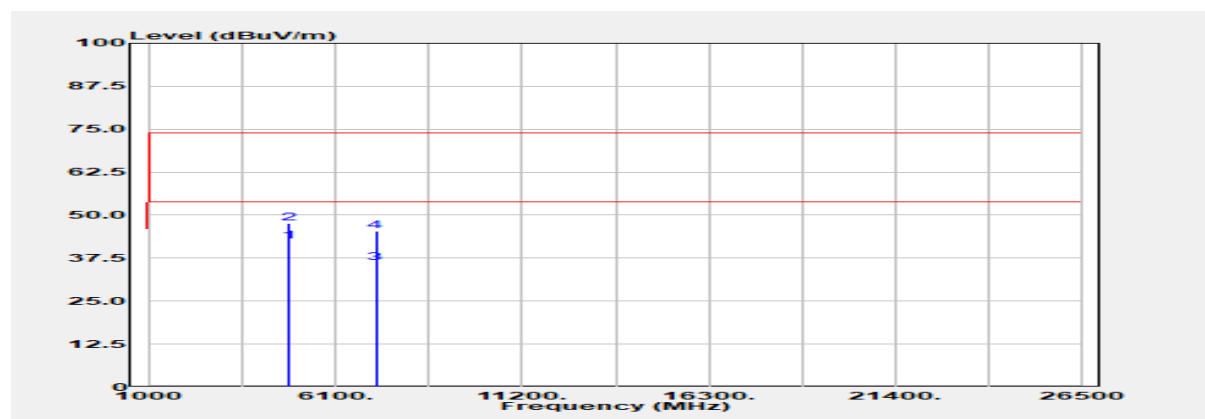
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Report Number :TERF2208001445E2  
 Operation Mode :BLE 1M  
 Test Frequency :2402 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :RFDPA131010EMAB301

Test Site :SAC D  
 Test Date :2022-10-17  
 Temp./Humi. :19.9/65  
 Antenna Pol. :HORIZONTAL  
 Engineer :Howard Huang



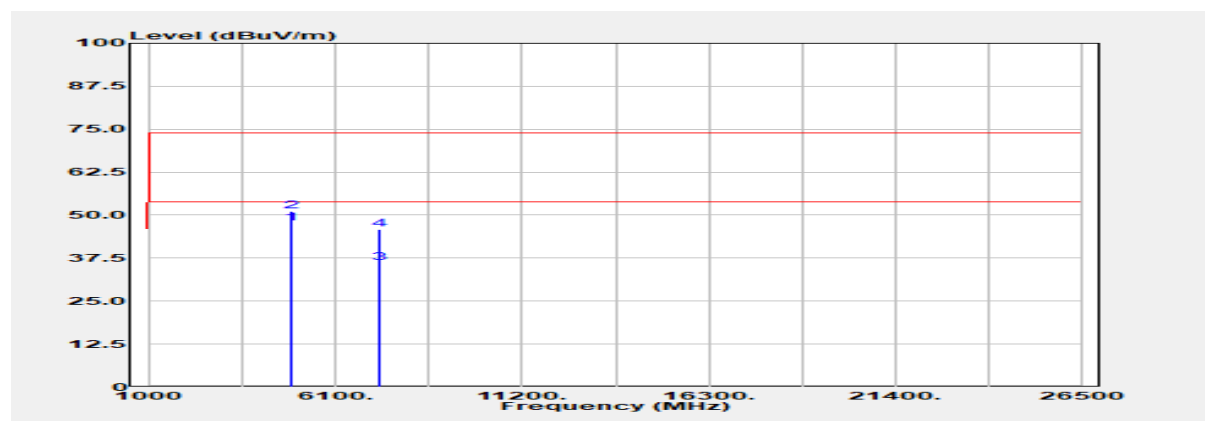
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4804.000	Average	42.46	-0.18	42.28	54.00	-11.72
4804.000	Peak	47.90	-0.18	47.72	74.00	-26.28
7206.000	Average	29.48	6.49	35.97	54.00	-18.03
7206.000	Peak	38.94	6.49	45.43	74.00	-28.57

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 1M  
 Test Frequency :2442 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :RFDPA131010EMAB301

Test Site :SAC D  
 Test Date :2022-10-17  
 Temp./Humi. :19.9/65  
 Antenna Pol. :VERTICAL  
 Engineer :Howard Huang



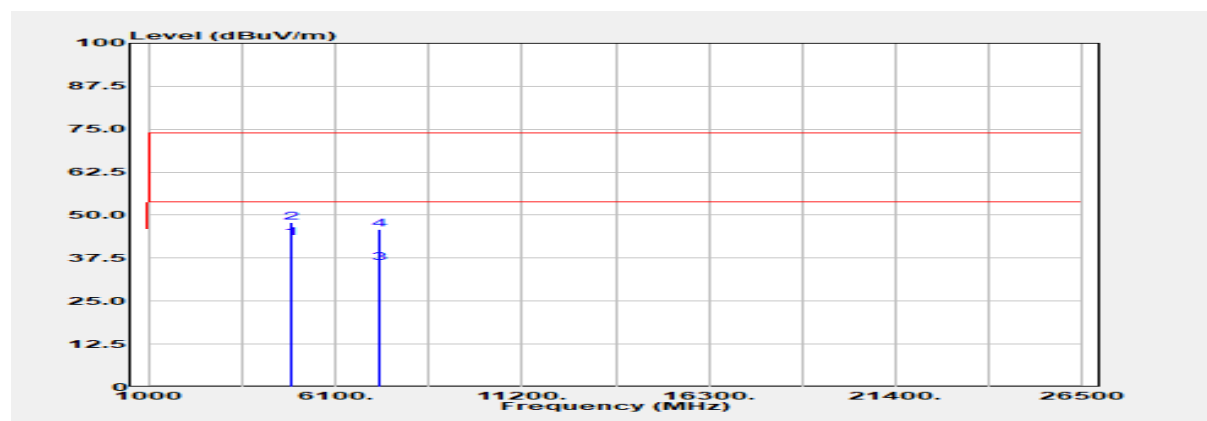
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4884.000	Average	48.02	-0.30	47.72	54.00	-6.28
4884.000	Peak	51.46	-0.30	51.16	74.00	-22.84
7326.000	Average	29.19	6.90	36.09	54.00	-17.91
7326.000	Peak	39.01	6.90	45.91	74.00	-28.09

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 1M  
 Test Frequency :2442 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :RFDPA131010EMAB301

Test Site :SAC D  
 Test Date :2022-10-17  
 Temp./Humi. :19.9/65  
 Antenna Pol. :HORIZONTAL  
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4884.000	Average	43.77	-0.30	43.47	54.00	-10.53
4884.000	Peak	48.10	-0.30	47.80	74.00	-26.20
7326.000	Average	29.21	6.90	36.11	54.00	-17.89
7326.000	Peak	39.05	6.90	45.95	74.00	-28.05

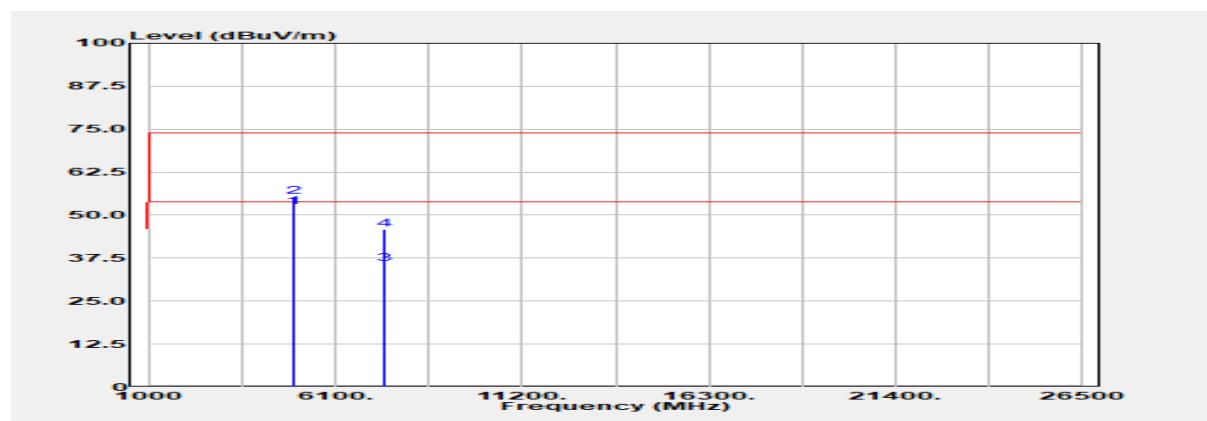
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Report Number :TERF2208001445E2  
 Operation Mode :BLE 1M  
 Test Frequency :2480 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :RFDPA131010EMAB301

Test Site :SAC D  
 Test Date :2022-10-17  
 Temp./Humi. :19.9/65  
 Antenna Pol. :VERTICAL  
 Engineer :Howard Huang



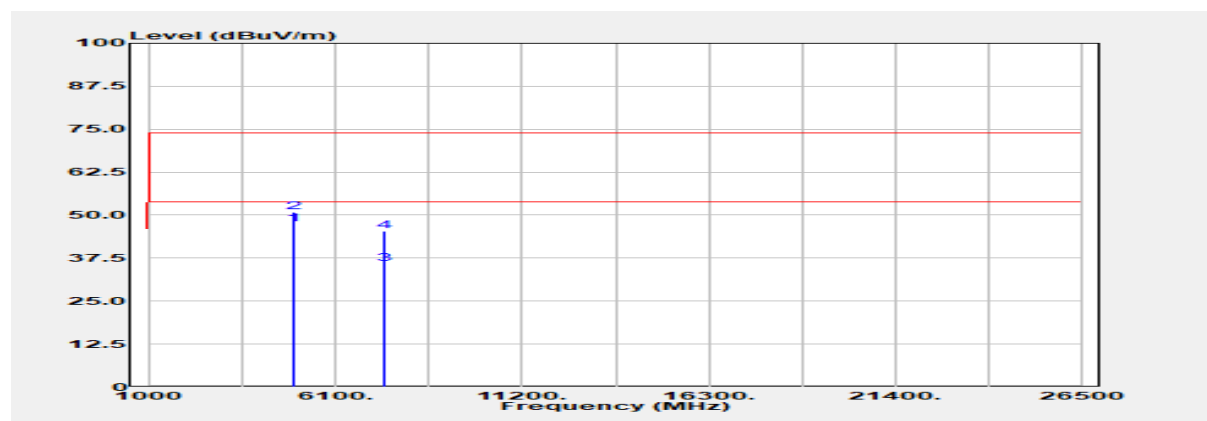
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4960.000	Average	52.07	0.40	52.46	54.00	-1.54
4960.000	Peak	54.95	0.40	55.34	74.00	-18.66
7440.000	Average	29.36	6.51	35.87	54.00	-18.13
7440.000	Peak	39.24	6.51	45.75	74.00	-28.25

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 1M  
 Test Frequency :2480 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :RFDPA131010EMAB301

Test Site :SAC D  
 Test Date :2022-10-17  
 Temp./Humi. :19.9/65  
 Antenna Pol. :HORIZONTAL  
 Engineer :Howard Huang



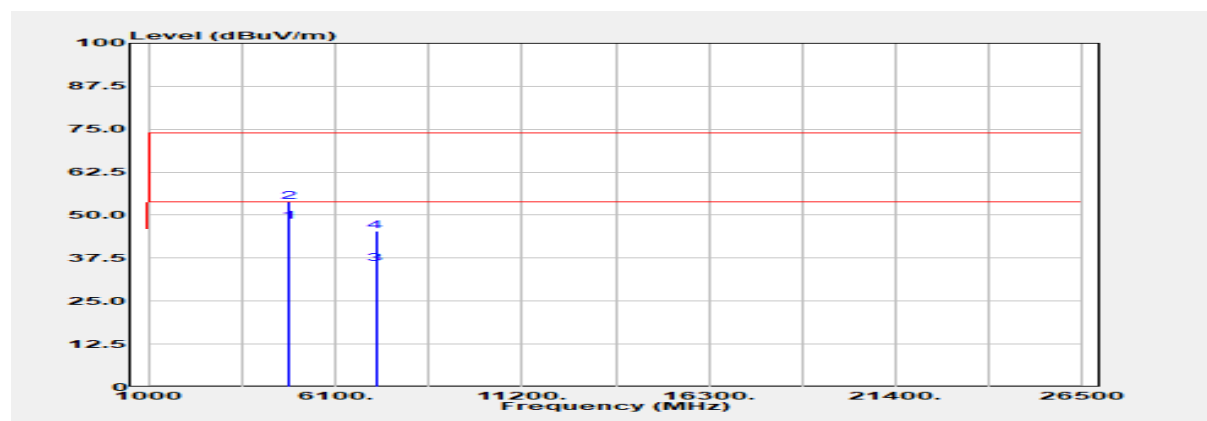
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.000	Average	46.90	0.40	47.29	54.00	-6.71
4960.000	Peak	50.59	0.40	50.98	74.00	-23.02
7440.000	Average	29.23	6.51	35.73	54.00	-18.27
7440.000	Peak	38.79	6.51	45.30	74.00	-28.70

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 2M  
 Test Frequency :2402 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :RFDPA131010EMAB301

Test Site :SAC D  
 Test Date :2022-10-17  
 Temp./Humi. :19.9/65  
 Antenna Pol. :VERTICAL  
 Engineer :Howard Huang



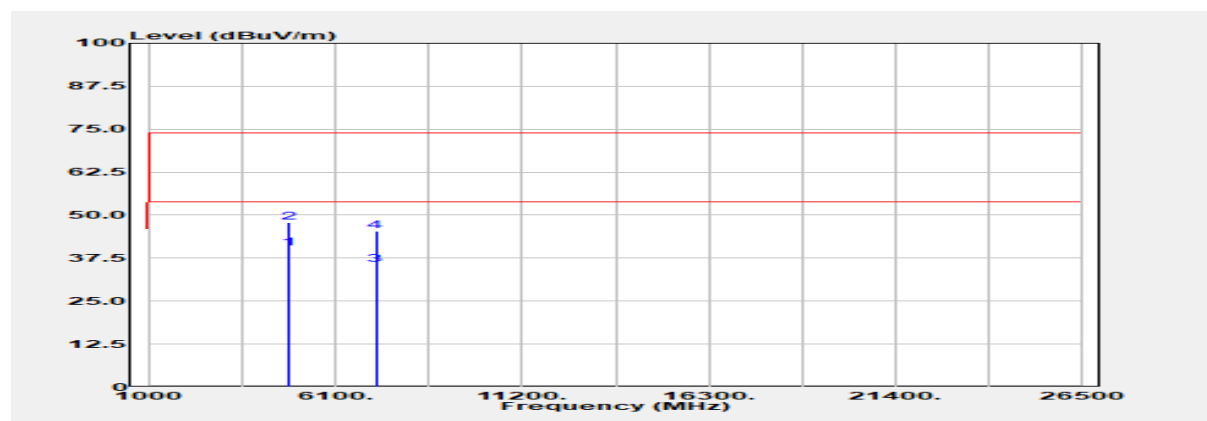
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4804.000	Average	48.38	-0.18	48.20	54.00	-5.80
4804.000	Peak	54.01	-0.18	53.83	74.00	-20.17
7206.000	Average	29.24	6.49	35.73	54.00	-18.27
7206.000	Peak	38.80	6.49	45.29	74.00	-28.71

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 2M  
 Test Frequency :2402 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :RFDPA131010EMAB301

Test Site :SAC D  
 Test Date :2022-10-17  
 Temp./Humi. :19.9/65  
 Antenna Pol. :HORIZONTAL  
 Engineer :Howard Huang



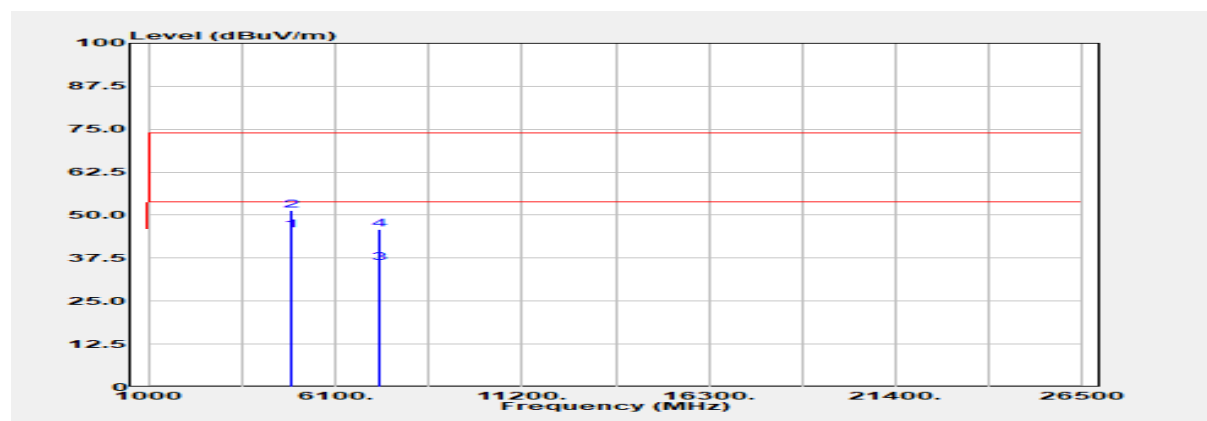
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4804.000	Average	40.55	-0.18	40.37	54.00	-13.63
4804.000	Peak	47.94	-0.18	47.77	74.00	-26.23
7206.000	Average	29.13	6.49	35.61	54.00	-18.39
7206.000	Peak	38.87	6.49	45.36	74.00	-28.64

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 2M  
 Test Frequency :2442 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :RFDPA131010EMAB301

Test Site :SAC D  
 Test Date :2022-10-17  
 Temp./Humi. :19.9/65  
 Antenna Pol. :VERTICAL  
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4884.000	Average	45.95	-0.30	45.65	54.00	-8.35
4884.000	Peak	51.73	-0.30	51.43	74.00	-22.57
7326.000	Average	29.12	6.90	36.02	54.00	-17.98
7326.000	Peak	38.86	6.90	45.75	74.00	-28.25

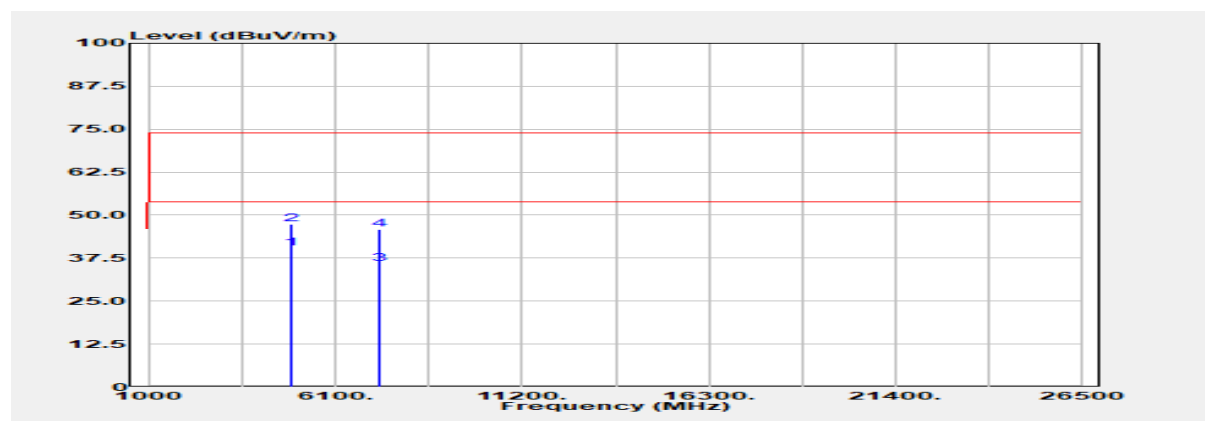
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Report Number :TERF2208001445E2  
 Operation Mode :BLE 2M  
 Test Frequency :2442 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :RFDPA131010EMAB301

Test Site :SAC D  
 Test Date :2022-10-17  
 Temp./Humi. :19.9/65  
 Antenna Pol. :HORIZONTAL  
 Engineer :Howard Huang



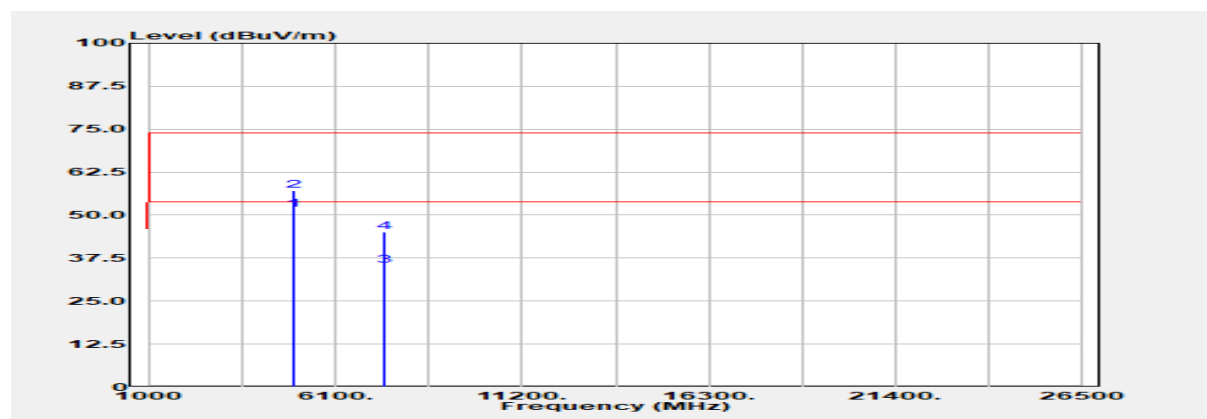
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4884.000	Average	40.58	-0.30	40.28	54.00	-13.72
4884.000	Peak	47.62	-0.30	47.32	74.00	-26.68
7326.000	Average	29.03	6.90	35.93	54.00	-18.07
7326.000	Peak	38.97	6.90	45.87	74.00	-28.13

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 2M  
 Test Frequency :2480 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :RFDPA131010EMAB301

Test Site :SAC D  
 Test Date :2022-10-17  
 Temp./Humi. :19.9/65  
 Antenna Pol. :VERTICAL  
 Engineer :Howard Huang



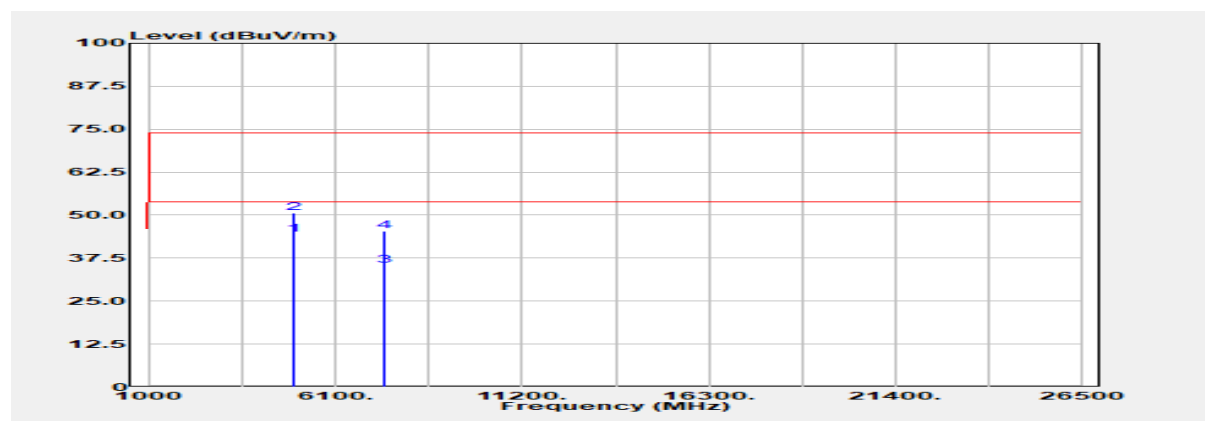
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4960.000	Average	51.27	0.40	51.67	54.00	-2.33
4960.000	Peak	56.79	0.40	57.19	74.00	-16.81
7440.000	Average	28.93	6.51	35.44	54.00	-18.56
7440.000	Peak	38.67	6.51	45.17	74.00	-28.83

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Report Number :TERF2208001445E2  
 Operation Mode :BLE 2M  
 Test Frequency :2480 MHz  
 Test Mode :TX  
 EUT Pol :E2 Plane  
 Note :RFDPA131010EMAB301

Test Site :SAC D  
 Test Date :2022-10-17  
 Temp./Humi. :19.9/65  
 Antenna Pol. :HORIZONTAL  
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4960.000	Average	43.93	0.40	44.33	54.00	-9.67
4960.000	Peak	50.33	0.40	50.73	74.00	-23.27
7440.000	Average	28.72	6.51	35.22	54.00	-18.78
7440.000	Peak	38.97	6.51	45.47	74.00	-28.53

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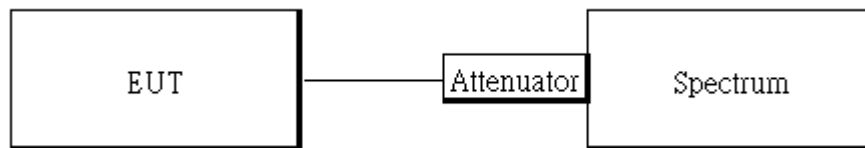
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## 12 POWER SPECTRAL DENSITY

### 12.1 Standard Applicable:

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

### 12.2 Test Setup



### 12.3 Measurement Procedure:

1. Set analyzer center frequency to DTS channel center frequency.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW = 3 kHz. & the VBW = 10 kHz
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.

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## 12.4 Measurement Result:

### BLE 1M mode

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2402	-9.890	8	PASS
2442	-9.810	8	PASS
2480	-9.790	8	PASS

**NOTE:** cable loss as 10.2dB that offsets in the spectrum

### BLE 2M mode

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2402	-11.910	8	PASS
2442	-11.830	8	PASS
2480	-11.990	8	PASS

**NOTE:** cable loss as 10.2dB that offsets in the spectrum

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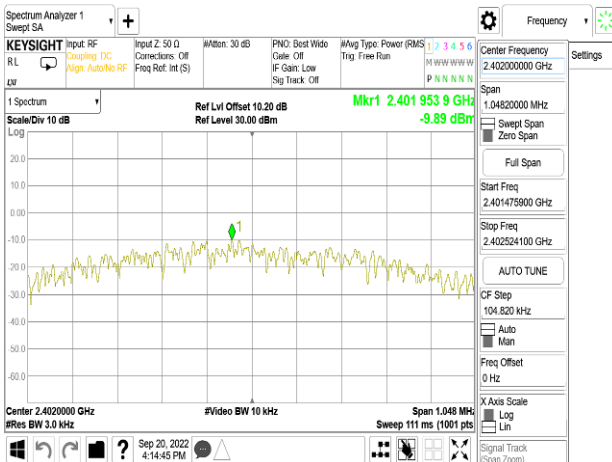
t (886-2) 2299-3279

f (886-2) 2298-0488

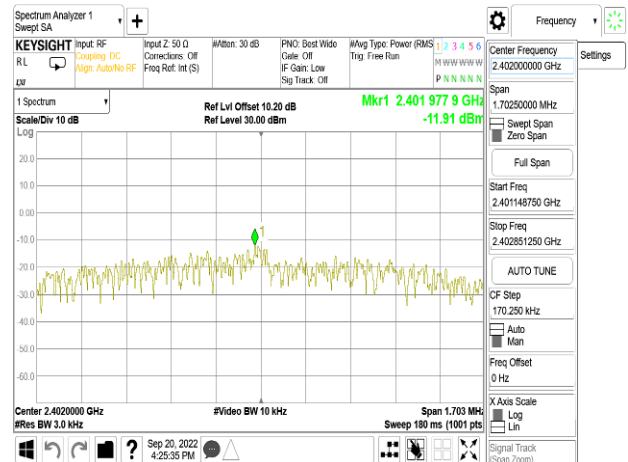
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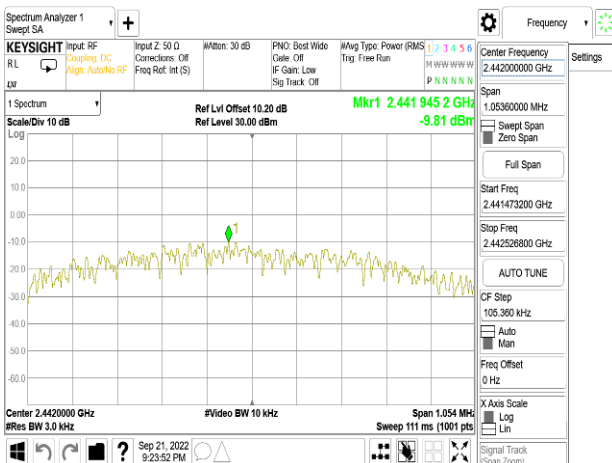
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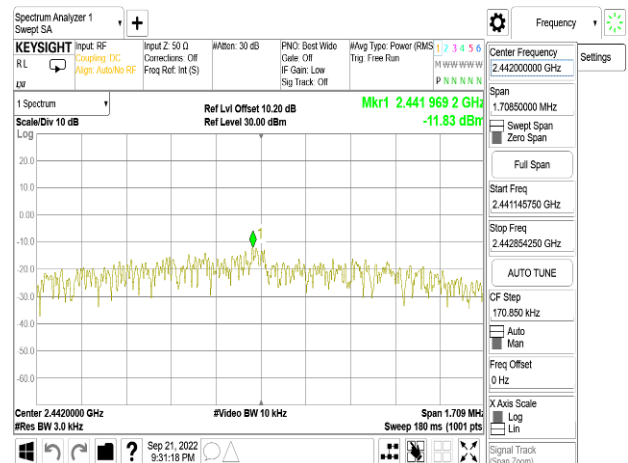
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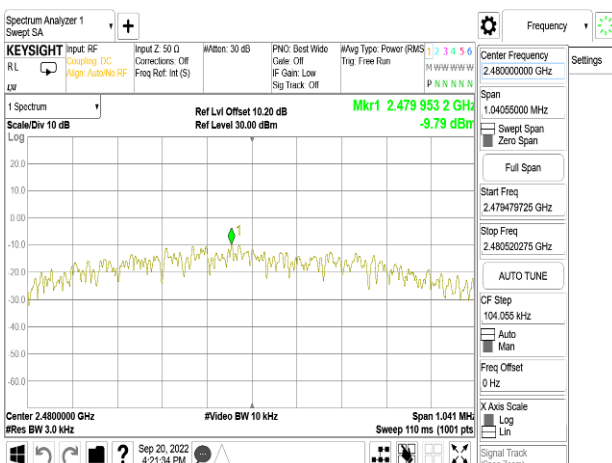
PSD\_BLE 1M\_MidCH20-2442MHz



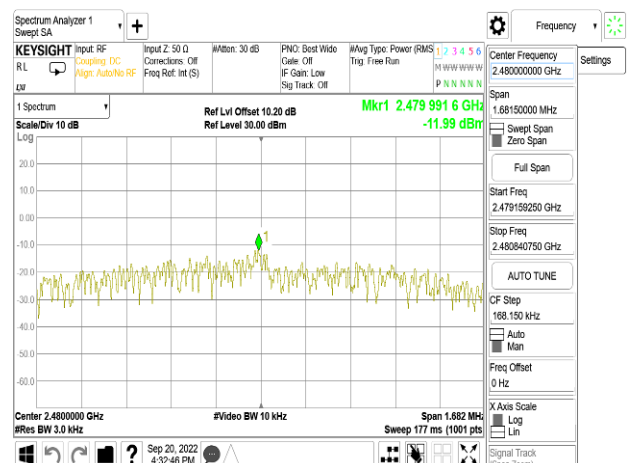
PSD\_BLE 2M\_MidCH20-2442MHz



PSD\_BLE 1M\_HighCH39-2480MHz



PSD\_BLE 2M\_HighCH39-2480MHz



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## 13 ANTENNA REQUIREMENT

### 13.1 Standard Applicable:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

### 13.2 Antenna Connected Construction:

The antenna complies with this requirement and no consideration of replacement. Please see EUT photo for details.

*~ End of Report ~*

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