

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



Applicant: Arduino S.r.l.
Via Andrea Appiani, 25, 20900 Monza, Italy

Manufacturer: WNC Corporation
20 Park Avenue II Hsinchu Science Park, Hsinchu 300,
Taiwan

EUT Description: Arduino UNO Q

Brand Name: Arduino

Model No./ISED HVIN: ABX00162

Family Model No.: ABX00173

/ Family ISED HVIN:

Model Difference: Please refer to section 1.4 for more details

ISED PMN: UNO Q

Report Number: TERF2511003772E2

FCC ID 2AN9S-ABX00162

IC: 26792-ABX00162

Date of EUT Received: September 16, 2025

Date of Test: November 7, 2025 ~ November 10, 2025

Issue Date: November 25, 2025

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 and the energy emitted by the sample EUT comply with FCC rule part §15.247, ISED RSS-247.

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

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2511003772E2	00	Add family model number and one antenna	November 25, 2025	Susan Lin	

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.
- 2、Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received. And are assessed as electrically identical in RF characteristics, therefore, no further assessment required for the variant(s).

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1 GENERAL INFORMATION

1.1 Product Description

EUT Description	Arduino UNO Q
Brand Name	Arduino
Model No. /ISED HVIN	ABX00162
Family Model No.: / Family ISED HVIN:	ABX00173
Model Difference:	Please refer to section 1.4 for more details
Hardware Version	N/A
Firmware Version	N/A
EUT Series No.	14B5CD1180C7
Power Supply	5Vdc
Test Software (Name/Version)	CMD

1.2 RF Specification

Radio Technology	BLE
Frequency Range	2402 ~ 2480MHz
Channel number	40 channels
Modulation type	GFSK
Transmit Power	BLE 1M: 9.26 dBm BLE 2M: 9.56 dBm

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1.3 Antenna Designation

Ant. Type	Brand	Part No.	Freq. (MHz)	Peak Gain(dBi)
PCB	WNC	DMVQ-AD01_SGB	2400~2483.5	1.41
PCB	WNC	DMVQ-AD01_SGD	2400~2483.5	4.80

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. The antenna information is provided by the applicant. The laboratory does not verify the accuracy of this information, and all test results related to antenna characteristics are based solely on the data supplied. Responsibility for the authenticity and accuracy of these specifications rests entirely with the party who provided the information.
3. The antenna complies with part 15.203 requirement and no consideration of replacement. Please see EUT photo for details.

1.4 Model Difference

The differences between models can be found in the table below:

Models *	M/N number	eMMC	Antenna Part No.
ABX00162	PCB ver.SGB	Max. 16GB	DMVQ-AD01_SGB
ABX00162	PCB ver.SGD or PCB ver.0GA **	Max. 16GB	DMVQ-AD01_SGD
ABX00173	--	Max. 32GB	DMVQ-AD01_SGD

Note:

* Model ABX00162 (PCB ver.SGB) and Model ABX00162 (PCB ver.SGD or PCB ver.0GA) are identical except for the antenna and have added a resistor (R2517: 0R1J).

Model ABX00162 (PCB ver.SGB) and Model ABX00173 are identical except for the antenna and eMMC capacity and have added a resistor (R2517: 0R1J).

Model ABX00162 (PCB ver.SGD or PCB ver.0GA) and Model ABX00173 are identical except for the eMMC capacity.

** Model ABX00162 (PCB ver.SGD) and Model ABX00162 (PCB ver.0GA) are identical except for the M/N number.

Refer to photos.

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1.5 Operating Frequencies

2400~2483.5 MHz							
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

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1.6 EUT Availability and The Worst Test Modes

1. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
2. 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.
3. Investigation has been done on all the possible configurations for searching the worst case. The given UE is pre-scanned among below modes.
4. Power verification is the same as the original.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
CONDUCTED TEST				
Bluetooth LE_1M	0 to 39	0,19,39	GFSK	1
Bluetooth LE_2M	0 to 39	0,19,39	GFSK	2

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)				
Bluetooth LE_1M	0 to 39	19	GFSK	1
TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)				
Bluetooth LE_1M	0 to 39	0,19,39	GFSK	1
Bluetooth LE_2M	0 to 39	0,19,39	GFSK	2

Note: The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for channel Low, Mid and High, the worst case position was reported.

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2 SUMMARY OF TEST RESULTS

FCC Rules	ISED Rules	Description Of Test	Result	Note
§15.247(b) (3)	RSS-247 §6.3.2	Peak Output Power	Compliant	
§15.205 §15.209 §15.247(d)	RSS-247 §6.6 RSS-Gen §8.9 RSS-Gen §8.10	Unwanted Emission	Compliant	N

Note

1. N/S Indicates whether item(s) being newly tested [N] or spot checked [S].
2. Items other than newly tested [N] are leveraged from test report TERF2509003007E2.

2.1 Test Methodology of Applied Standards

1. FCC Part 15, Subpart C §15.247
2. FCC KDB 558074 D01 15.247 Meas Guidance v05r02
3. ISED RSS-247 issue 4 July 2025
4. ISED RSS-Gen, Issue 5 April 2018, Amendment 2 (February 2021)
5. ANSI C63.10:2020
6. ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

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2.2 Measurement Uncertainty

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 1.54 dB
Output Power measurement	+/- 0.97 dB
Emission Bandwidth	+/- 1.38 Hz
Conducted emission measurement	+/- 0.77 dB
Peak Power Density	+/- 0.61 dB
Temperature	+/- 0.60 °C
Humidity	+/- 3.00 %
DC / AC Power Source	+/- 1.00 %

Radiated Spurious Emission Measurement Uncertainty		
Polarization: Vertical	+/- 1.89 dB	9kHz - 30MHz
	+/- 4.10 dB	30MHz - 1000MHz
	+/- 3.37 dB	1GHz - 18GHz
	+/- 3.83 dB	18GHz - 40GHz
Polarization: Horizontal	+/- 1.89 dB	9kHz - 30MHz
	+/- 4.10 dB	30MHz - 1000MHz
	+/- 3.37 dB	1GHz - 18GHz
	+/- 3.83 dB	18GHz - 40GHz
Radiated Spurious Emission	+/- 2.00 dB	33GHz - 50GHz
	+/- 1.59 dB	50GHz - 60GHz
	+/- 1.71 dB	60GHz - 90GHz
	+/- 1.64 dB	90GHz - 140GHz
	+/- 3.84 dB	140GHz - 220GHz

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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2.3 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number / Registration 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 24803	SAC 1 / SAC 2 / SAC 3 Conduction 1 / Conducted 1 Conducted 2 / Conducted 3 Conducted 4 / Conducted 5 Conducted 6	TW0027 / 891563	TW3702
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.2, Keji 1st Rd, Guishan District, Taoyuan City, Taiwan 333	SAC C / SAC D / SAC G Conduction C / Conducted A Conducted B / Conducted C Conducted D / Conducted E Conducted F / Conducted G	TW0028 / 200037	TW3702

Temperature:	22-26	°C	Relative Humidity:	55-60	%
Test site	Conducted 1		Test Start:	11/07/2025	
Test Engineer:	Teddy Lu		Test Done:	11/07/2025	

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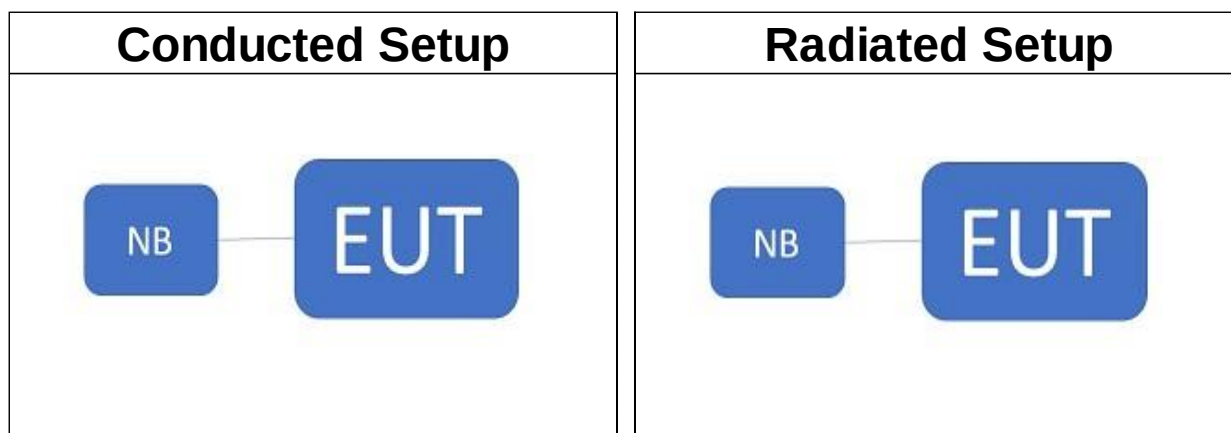
3 CONTROL UNIT(S) AND PERIPHERAL(S)

3.1 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.

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.

3.2 Diagrams



3.3 List

3.3.1 Conducted Setup

Conducted Emission Test Site: Conducted 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Notebook	Lenovo	T440P	PB-02Y6RK 14/07	N/A	N/A
USB Cable	PowerSync	CUBCVARA0010	N/A	N/A	N/A

3.3.2 Radiated Setup

Radiated Emission Test Site: SAC 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Notebook	Lenovo	L480	PF-1S9NT5 19/07	N/A	N/A
USB Cable	PowerSync	CUBCVARA0010	N/A	N/A	N/A

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4 TEST INSTRUMENT

4.1 Conducted Measurement

Conducted Emission Test Site: Conducted 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Attenuator	Mini-Circuits	BW-S10W2+	3	12/11/2024	12/10/2025
DC Block	Mini-Circuits	BLK-18-S+	2	12/11/2024	12/10/2025
MXA Spectrum Analyzer	KEYSIGHT	N9021B	MY62242004	06/11/2025	06/10/2026
Power Meter	Anritsu	ML2496A	2132007	09/24/2025	09/23/2026
Power Sensor	Anritsu	MA2411B	1911391	09/24/2025	09/23/2026
Power Sensor	Anritsu	MA2411B	1911392	09/24/2025	09/23/2026
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R

4.2 Radiated Measurement

Radiated Emission Test Site: SAC 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
3.2G High Pass Filter	Woken	WHKX10-2624	3	12/11/2024	12/10/2025
Band Reject Filter 2400-2483.5	Titan	T04N2400248350S 01	23040703-10	12/11/2024	12/10/2025
Bi-log Antenna	SCHWARZBECK	VULB9168	9168-1278	03/10/2025	03/09/2026
Coaxial Cables	EMCI	EMC104-SM-SM-600 +EMC105-SM-SM-2000 +EMC105-SM-SM-1500 +EMC105-SM-SM-10000	RX Cable 9K-18G (220237+220909+220906+240801)	07/14/2025	07/13/2026
Coaxial Cables	Huber Suhner	SUCOFLEX 102	RX Cable 18G-40G MY2630/2+805062 /2	07/14/2025	07/13/2026
EMI Test Receiver	R&S	ESR 7	102525	02/08/2025	02/07/2026
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071570	07/04/2025	07/03/2026
Horn Antenna	RF SPIN	DRH0844	LE2D05A0844	08/07/2025	08/06/2026
Horn Antenna	RF SPIN	DRH18-E	210303A18-ES	02/20/2025	02/19/2026
Loop Antenna	COM-POWER	AL-130R	10160104	12/19/2024	12/18/2025
Pre-Amplifier	EMCI	EMC118A45SEE	980867	07/14/2025	07/13/2026
Pre-Amplifier	EMCI	EMC184045SEE	980939	07/14/2025	07/13/2026
Pre-Amplifier	EMCI	EMC330N	980826	07/14/2025	07/13/2026
Site Cal	SGS	SAC 2	N/A	07/14/2025	07/13/2026
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R

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

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5 REGULATORY REQUIREMENTS

5.1 Duty Cycle

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.

5.2 Maximum Output Power

FCC

For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt.

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.

ISED

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.

Note:

When the antenna gain is greater than 6 dBi, the power limit attenuated accordingly.

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5.3 Unwanted Emissions

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 applicable radiated emission limits as defined in the general emission limit tables.

Moreover, for an intentional radiator operating below 10 GHz, the frequency range of measurements shall extend up to the tenth harmonic of the highest fundamental frequency or to 40 GHz, 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.

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6 TEST CONFIGURATION

6.1 Maximum Output Power

6.1.1 Duty Cyclor



Set the spectrum analyzer as

Center Frequency = fundamental frequency

Span = Zero,

RBW = 8 MHz,

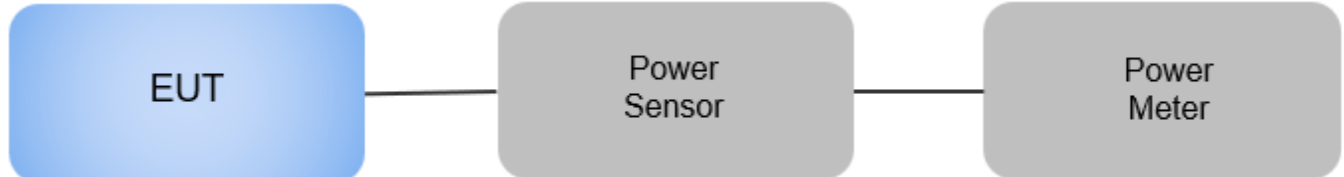
VBW = 8 MHz,

Detector = Peak,

Allow trace to fully stabilize.

Use the delta marker function to determine the ON and OFF times.

6.1.2 Output Power



Place the EUT on the table and set it to transmit mode.

The testing was performed in accordance with the applicable measurement procedure.

Remove the antenna from the EUT and connect a low-loss RF cable from the antenna port to the power meter.

Record the maximum reading as observed from the power meter.

Repeat the above procedures until all default test channels have been measured.

Note: The duty cycle factor is applied to obtain the average measurement corrected to its maximum equivalent.

Note: when the antenna gain is greater than 6 dBi, the power limit attenuated accordingly.

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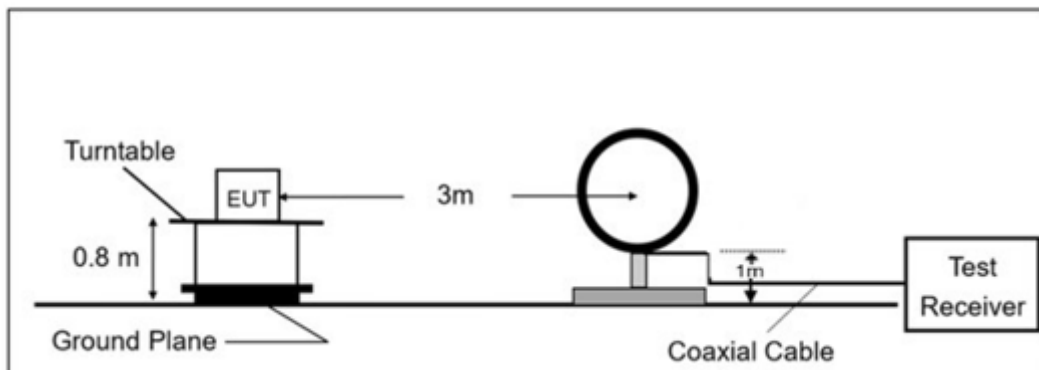
6.2 Unwanted Emissions

For Measurements From 9 kHz To 30 MHz

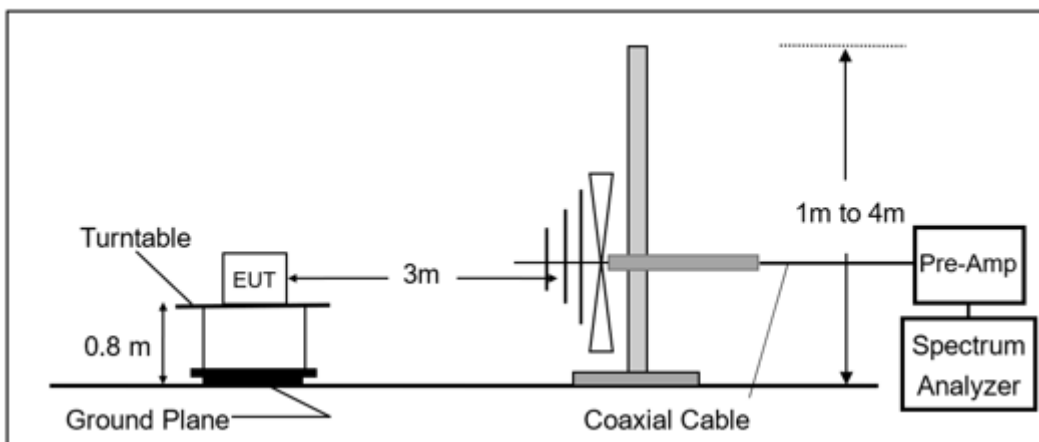
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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

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



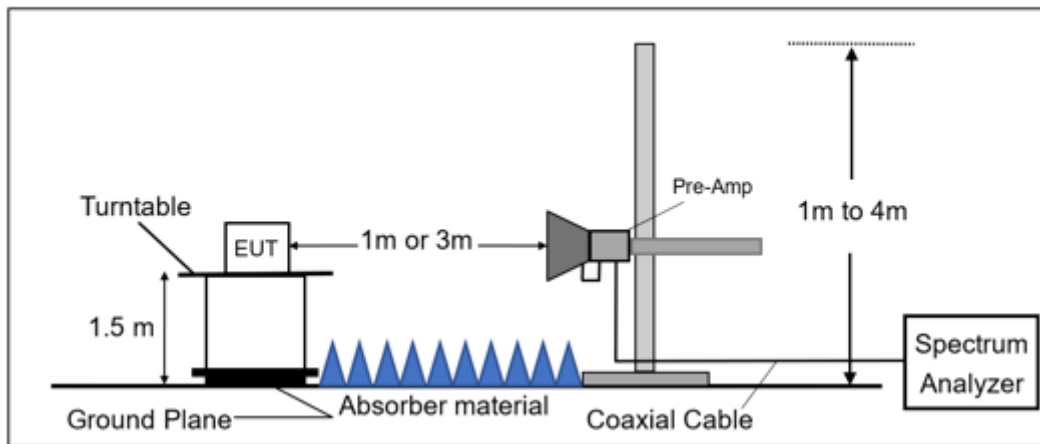
Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



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



Radiated emissions below 30 MHz were measured in a 9 m × 6 m × 6 m semi-anechoic chamber. The measurement results are equivalent to those obtained at an open-area test site (OATS).

A comparison between data measured at the open-area test site and the semi-anechoic chamber shows very similar results.

1. The testing was performed in accordance with the applicable radiated emission measurement procedure.
2. The EUT was placed on a turntable at a height of 0.8 m for frequencies below 1 GHz and 1.5 m for frequencies above 1 GHz.
3. The turntable was rotated 360 degrees to determine the position of the maximum emission level.
4. The EUT was positioned 3 meters away from the receiving antenna, which was varied in height from 1 m to 4 m to locate the highest emissions.
5. The spectrum analyzer was set with RBW = 100 kHz and VBW = 300 kHz, using a Peak detector for frequencies between 30 MHz and 1 GHz.
6. A receiver mode with RBW = 120 kHz was used for Quasi-Peak (QP) measurements between 30 MHz and 1 GHz.
7. For frequencies above 1 GHz, the spectrum analyzer was set with RBW = 1 MHz, VBW = 3 MHz, and Detector = Peak for maximum emission measurements.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz, Detector= RMS correction factor is $[10 \log (1 / D)]$ for Average Emission measurements at frequency above 1 GHz when $D \geq 98\%$. If a specific emission is demonstrated to be continuous ($D \geq 98\%$) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission, where D is the duty cycle.
9. Set the spectrum analyzer as RBW=1 MHz, VBW $\geq 1/T$, Detector= Peak when $D < 98\%$ for Average Emission Measurements at frequency above 1 GHz.
10. When measuring radiated emissions above 1 GHz, the receiving antenna

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was maintained within the "cone of radiation" and pointed at the emission source in both azimuth and elevation, with polarization oriented for maximum response, ensuring it remained within the 3 dB illumination beamwidth of the measurement antenna.

11. The six highest emissions were fully maximized using the above procedures to ensure EUT compliance.

12. Each emission was further maximized by changing the receiving antenna polarization between horizontal and vertical.

13. Repeat the above procedures until all default test channels (low, middle, and high) are measured.

Note: Emissions from 9 kHz to 30 MHz were pre-scanned and found to be at least 20 dB below the applicable limits, and are therefore not reported.

6.2.1 Field Strength Calculation

The field strength is calculated by adding the antenna factor and cable loss, then subtracting the amplifier gain and any applicable duty cycle correction factor from the measured reading. The basic equation and an example calculation are as follows:

$$FS = RA + AF + CL - AG$$

Where:

FS = Field Strength (dB μ V/m)

RA = Reading Amplitude (dB μ V)

AF = Antenna Factor (dB/m)

CL = Cable Loss (dB)

AG = Amplifier Gain (dB)

The emission limit is expressed in dB μ V/m, which corresponds to the logarithmic conversion of $20 \times \log_{10} (\mu\text{V/m})$.

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7 TEST RESULTS

7.1 Duty Factor

Mode	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
BLE 1M	85.60	0.68	0.47	1.00
BLE 2M	57.60	2.40	0.93	1.00



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7.2 Maximum Output Power

7.2.1 Peak & Avg

BLE 1M mode:

CH	Frequency (MHz)	Power Setting	Peak Output Power (dBm)	Required Limit (dBm)
0	2402	default	7.21	30
19	2440	default	6.68	30
39	2480	default	9.26	30
CH	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Required Limit (dBm)
0	2402	default	6.93	30
19	2440	default	6.62	30
39	2480	default	9.17	30

***Note:**

1. Measured by power meter, cable loss 10.88 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 Setting	Peak Output Power (dBm)	Required Limit (dBm)
0	2402	default	7.45	30
19	2440	default	6.99	30
39	2480	default	9.56	30
CH	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Required Limit (dBm)
0	2402	default	6.92	30
19	2440	default	6.57	30
39	2480	default	9.08	30

***Note:**

1. Measured by power meter, cable loss 10.88 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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7.2.2 EIRP

EIRP BLE 1M mode

CH	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit
0	2402	default	6.93	4.80	11.73	4W= 36 dBm
19	2440	default	6.62	4.80	11.42	4W= 36 dBm
39	2480	default	9.17	4.80	13.97	4W= 36 dBm

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

EIRP BLE 2M mode

CH	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit
0	2402	default	6.92	4.80	11.72	4W= 36 dBm
19	2440	default	6.57	4.80	11.37	4W= 36 dBm
39	2480	default	9.08	4.80	13.88	4W= 36 dBm

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

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7.3 Unwanted Emissions

7.3.1 Radiated Band Edge Measurement Result

Model: ABX00162 (PCB ver.SGD)

Report Number :TERF2511003772E2

Test Site :SAC 2

Operation Mode :BLE 1M

Test Date :2025-11-10

Test Frequency :2402 MHz

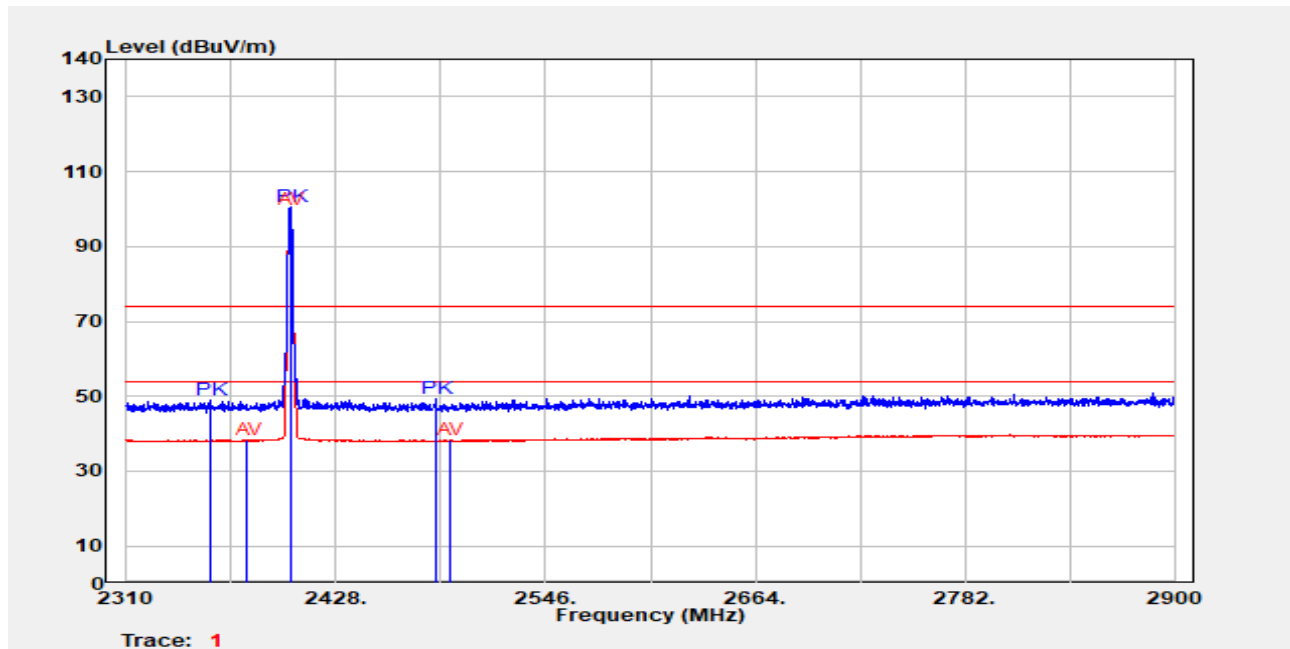
Temp./Humi. :25.1°C/61%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Bob Chao



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2356.82	Peak	53.41	-4.41	49.00	74.00	-25.00
2377.87	Average	42.76	-4.42	38.34	54.00	-15.66
2402.27	Peak	104.88	-4.49	100.39	-	-
2402.27	Average	104.42	-4.49	99.93	-	-
2483.91	Peak	53.94	-4.69	49.25	74.00	-24.75
2491.58	Average	42.96	-4.66	38.30	54.00	-15.70

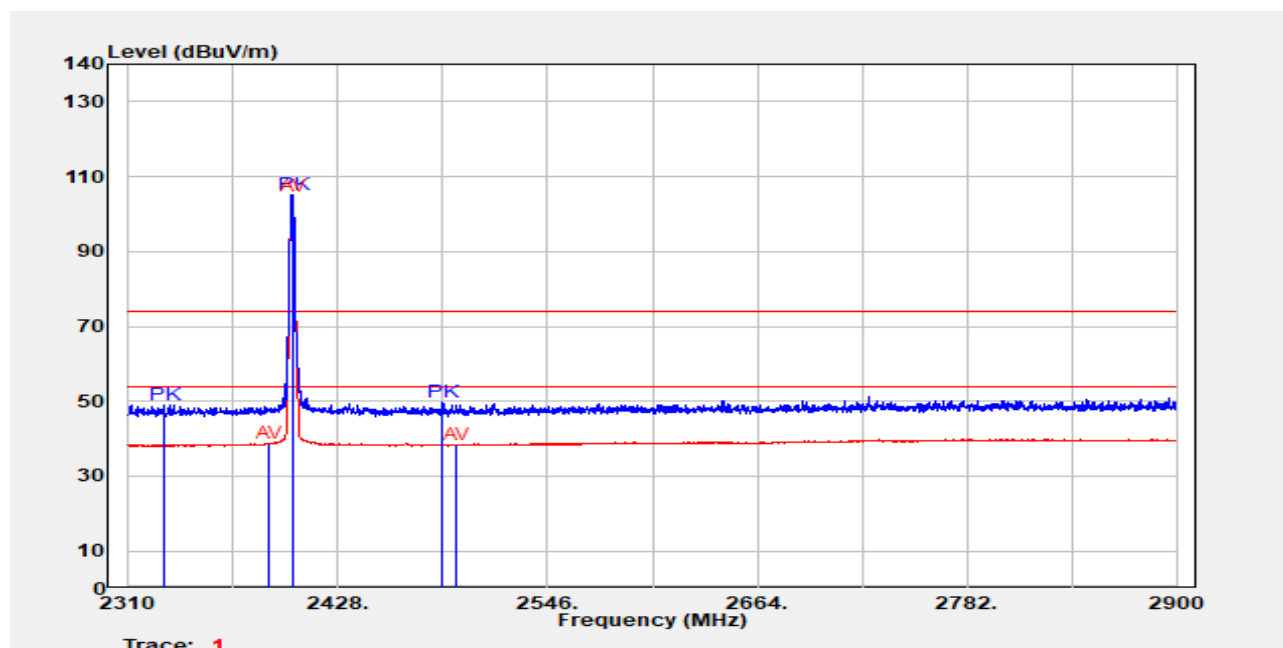
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Report Number :TERF2511003772E2
 Operation Mode :BLE 1M
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-11-10
 Temp./Humi. :25.1°C/61%
 Antenna Pol. :Horizontal
 Engineer :Bob Chao



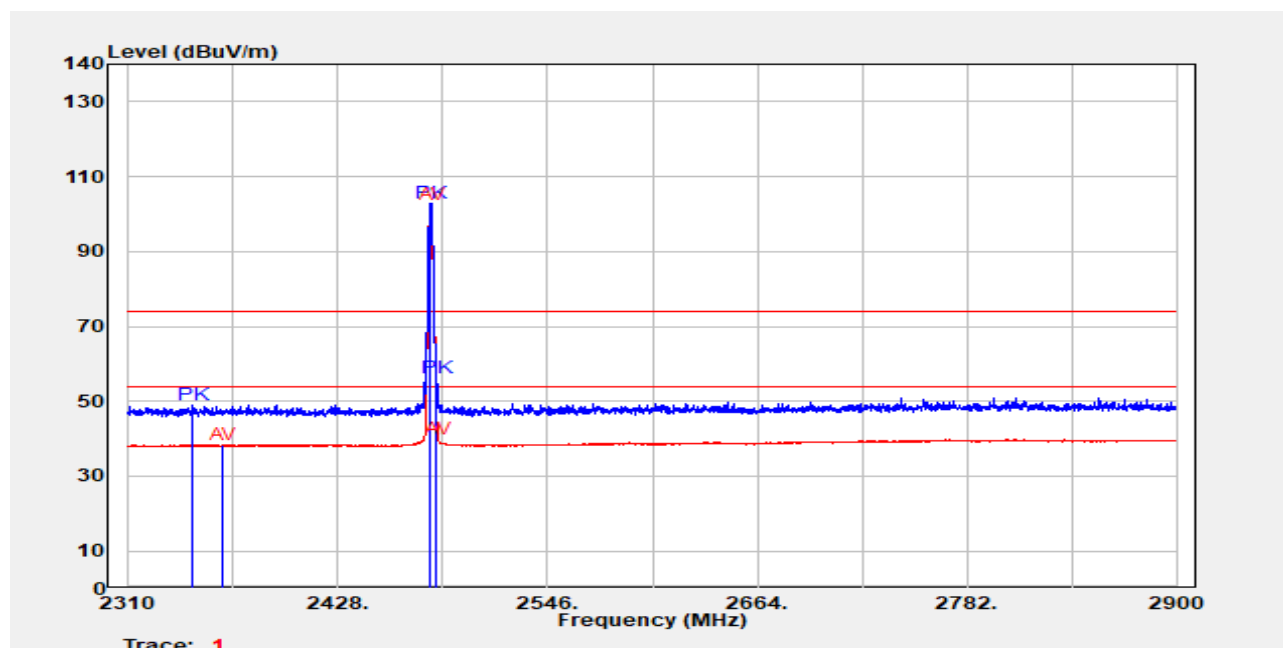
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2329.48	Peak	53.47	-4.42	49.05	74.00	-24.95
2388.50	Average	43.20	-4.40	38.80	54.00	-15.20
2402.07	Peak	109.51	-4.49	105.02	-	-
2402.07	Average	109.02	-4.49	104.53	-	-
2486.86	Peak	54.27	-4.68	49.59	74.00	-24.41
2494.34	Average	43.13	-4.64	38.49	54.00	-15.51

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Report Number :TERF2511003772E2
 Operation Mode :BLE 1M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-11-10
 Temp./Humi. :25.1°C/61%
 Antenna Pol. :Vertical
 Engineer :Bob Chao



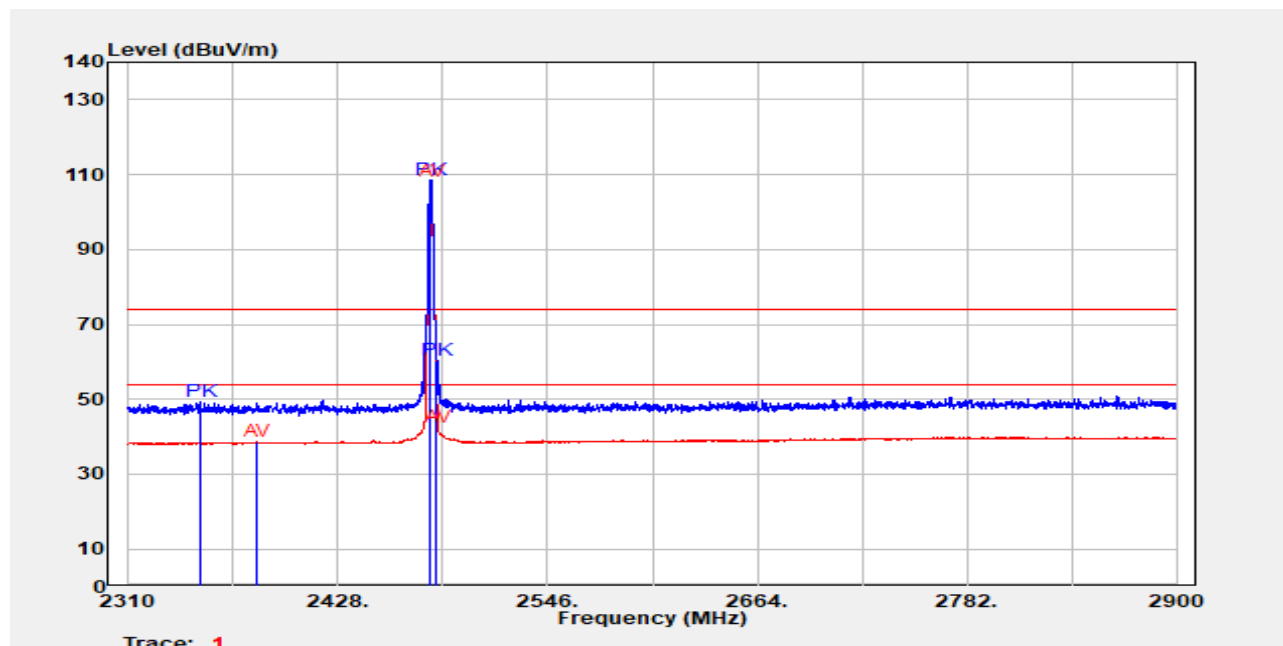
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2346.20	Peak	53.49	-4.42	49.07	74.00	-24.93
2362.92	Average	42.74	-4.44	38.30	54.00	-15.70
2480.17	Peak	107.69	-4.68	103.01	-	-
2480.17	Average	107.27	-4.68	102.59	-	-
2483.50	Peak	60.67	-4.69	55.98	74.00	-18.02
2483.50	Average	44.51	-4.69	39.82	54.00	-14.18

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Report Number :TERF2511003772E2
 Operation Mode :BLE 1M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-11-10
 Temp./Humi. :25.1°C/61%
 Antenna Pol. :Horizontal
 Engineer :Bob Chao



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
2350.33	Peak	53.70	-4.41	49.29	74.00	-24.71
2381.81	Average	42.96	-4.40	38.56	54.00	-15.44
2480.17	Peak	113.16	-4.68	108.48	-	-
2480.17	Average	112.72	-4.68	108.04	-	-
2483.50	Peak	64.99	-4.69	60.30	74.00	-13.70
2483.50	Average	47.23	-4.69	42.54	54.00	-11.46

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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

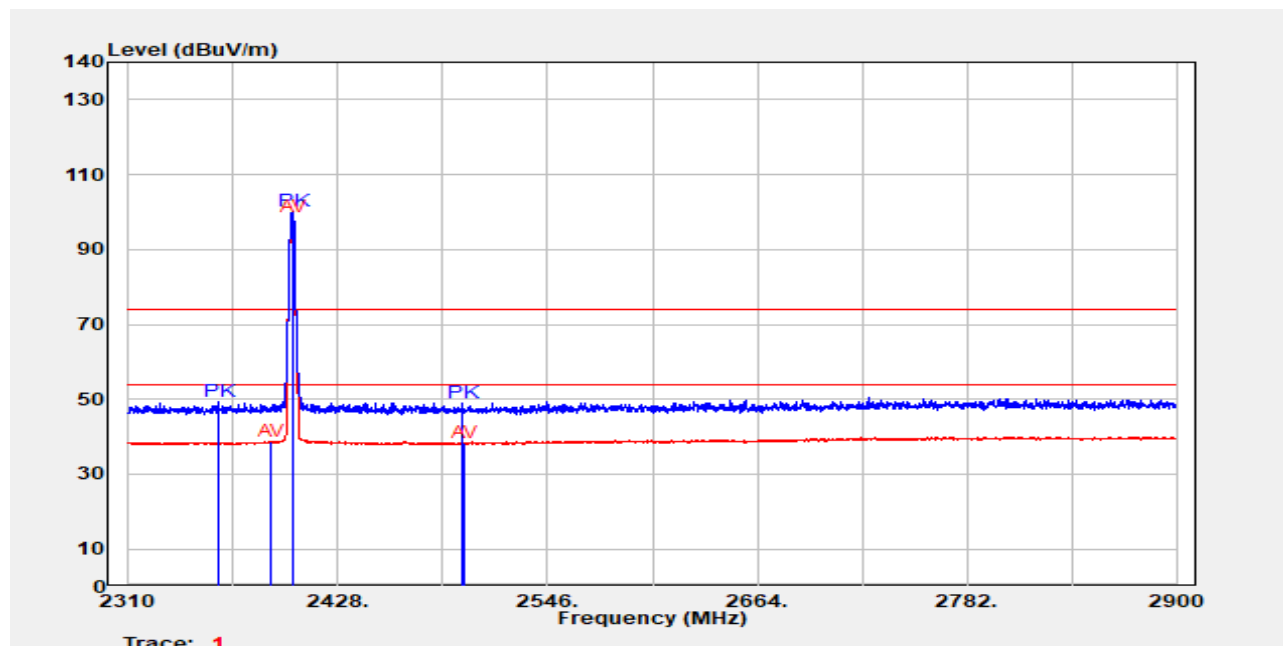
f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Report Number :TERF2511003772E2
 Operation Mode :BLE 2M
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-11-10
 Temp./Humi. :25.1°C/61%
 Antenna Pol. :Vertical
 Engineer :Bob Chao



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2360.36	Peak	53.73	-4.41	49.32	74.00	-24.68
2389.68	Average	43.28	-4.40	38.88	54.00	-15.12
2402.07	Peak	104.48	-4.49	99.99	-	-
2402.07	Average	103.02	-4.49	98.53	-	-
2498.08	Peak	53.52	-4.60	48.92	74.00	-25.08
2498.47	Average	43.07	-4.60	38.47	54.00	-15.53

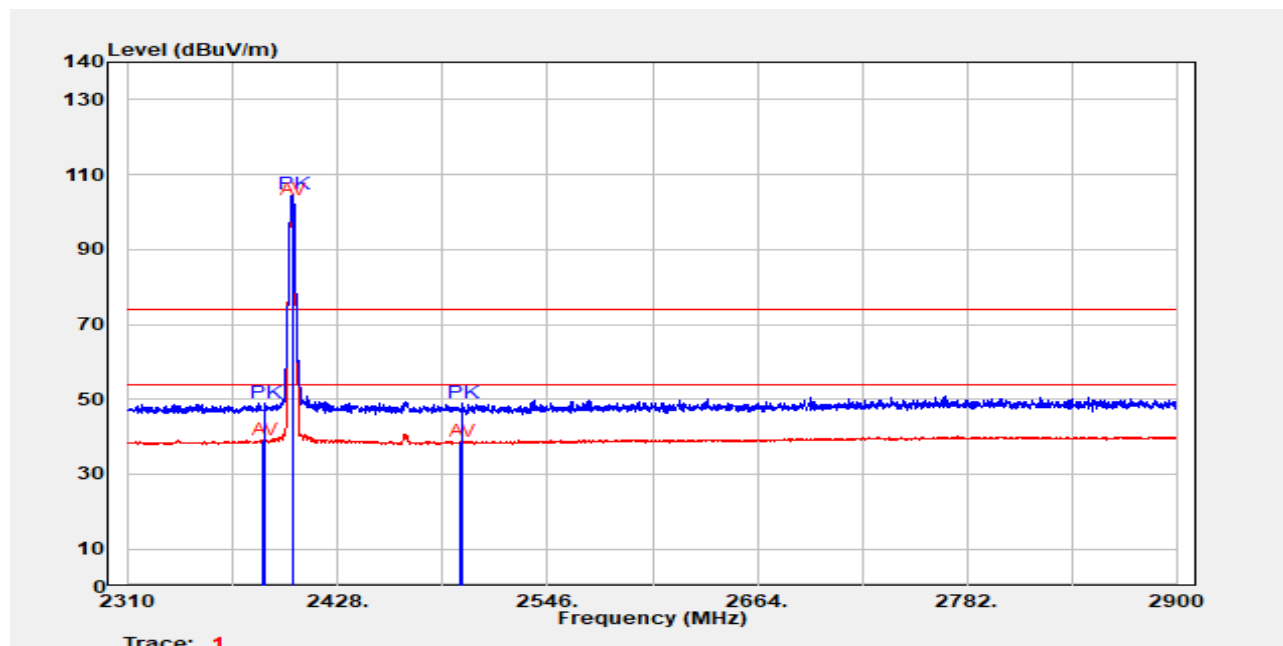
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Report Number :TERF2511003772E2
 Operation Mode :BLE 2M
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-11-10
 Temp./Humi. :25.1°C/61%
 Antenna Pol. :Horizontal
 Engineer :Bob Chao



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2385.94	Average	43.53	-4.39	39.14	54.00	-14.86
2386.92	Peak	53.28	-4.39	48.89	74.00	-25.11
2402.27	Peak	109.07	-4.49	104.58	-	-
2402.27	Average	107.56	-4.49	103.07	-	-
2496.90	Average	43.29	-4.61	38.68	54.00	-15.32
2497.68	Peak	53.41	-4.60	48.81	74.00	-25.19

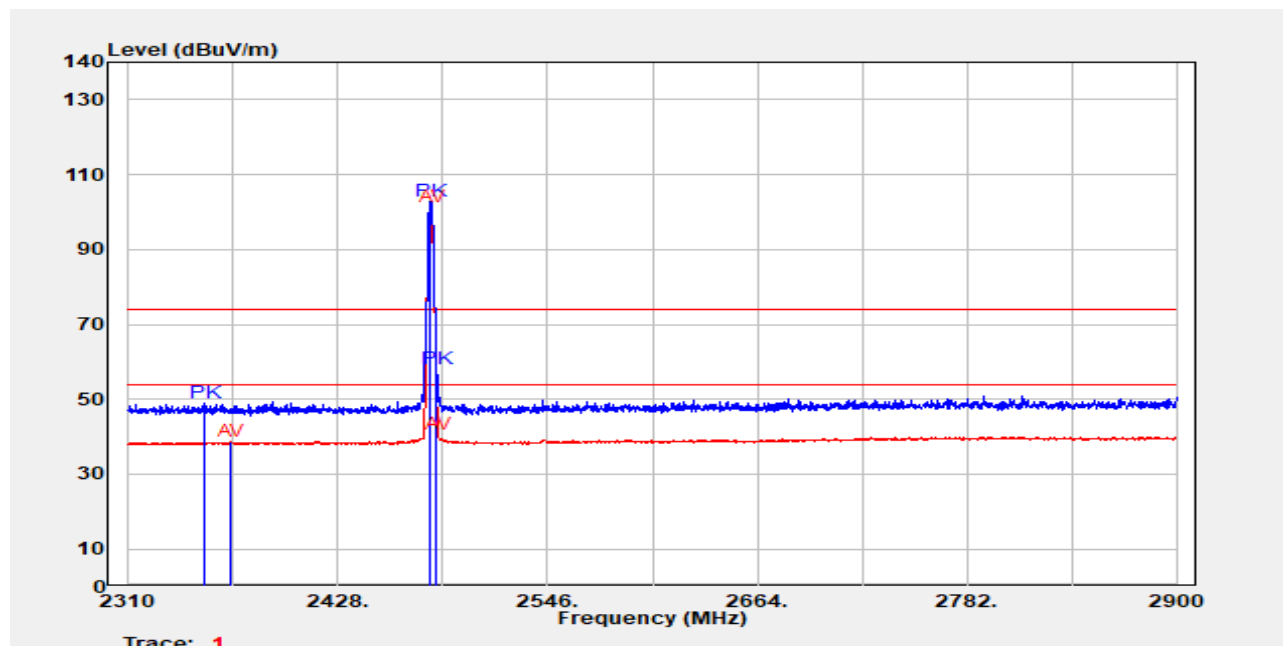
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Report Number :TERF2511003772E2
 Operation Mode :BLE 2M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-11-10
 Temp./Humi. :25.1°C/61%
 Antenna Pol. :Vertical
 Engineer :Bob Chao



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2352.30	Peak	53.24	-4.41	48.83	74.00	-25.17
2367.45	Average	42.99	-4.48	38.51	54.00	-15.49
2480.17	Peak	107.47	-4.68	102.79	-	-
2480.17	Average	106.13	-4.68	101.45	-	-
2483.50	Peak	62.84	-4.69	58.15	74.00	-15.85
2483.50	Average	45.21	-4.69	40.52	54.00	-13.48

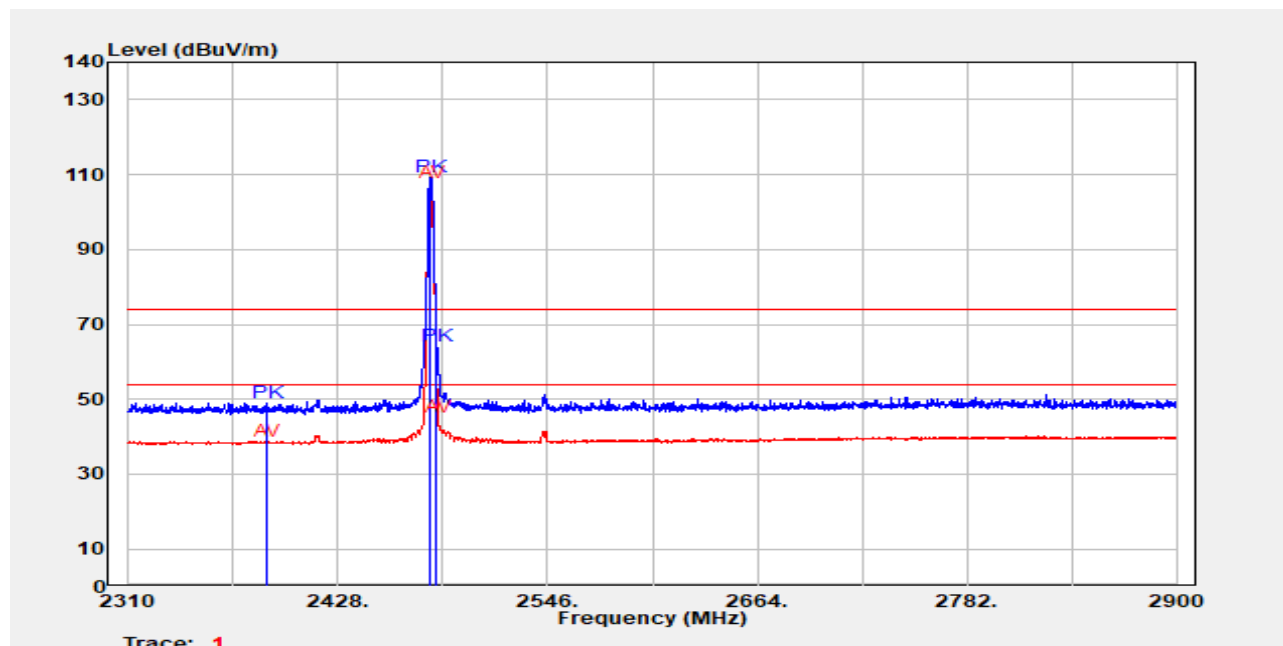
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Report Number :TERF2511003772E2
 Operation Mode :BLE 2M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-11-10
 Temp./Humi. :25.1°C/61%
 Antenna Pol. :Horizontal
 Engineer :Bob Chao



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2387.32	Average	43.19	-4.39	38.80	54.00	-15.20
2387.91	Peak	53.53	-4.40	49.13	74.00	-24.87
2480.17	Peak	113.88	-4.68	109.20	-	-
2480.17	Average	112.48	-4.68	107.80	-	-
2483.50	Peak	68.65	-4.69	63.96	74.00	-10.04
2483.50	Average	49.80	-4.69	45.11	54.00	-8.89

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7.3.2 Spurious Emission

Model: ABX00162 (PCB ver.SGD)

Report Number :TERF2511003772E2

Operation Mode :BLE 1M

Test Frequency :2440 MHz

Test Mode :Tx

EUT Pol :E2 Plane

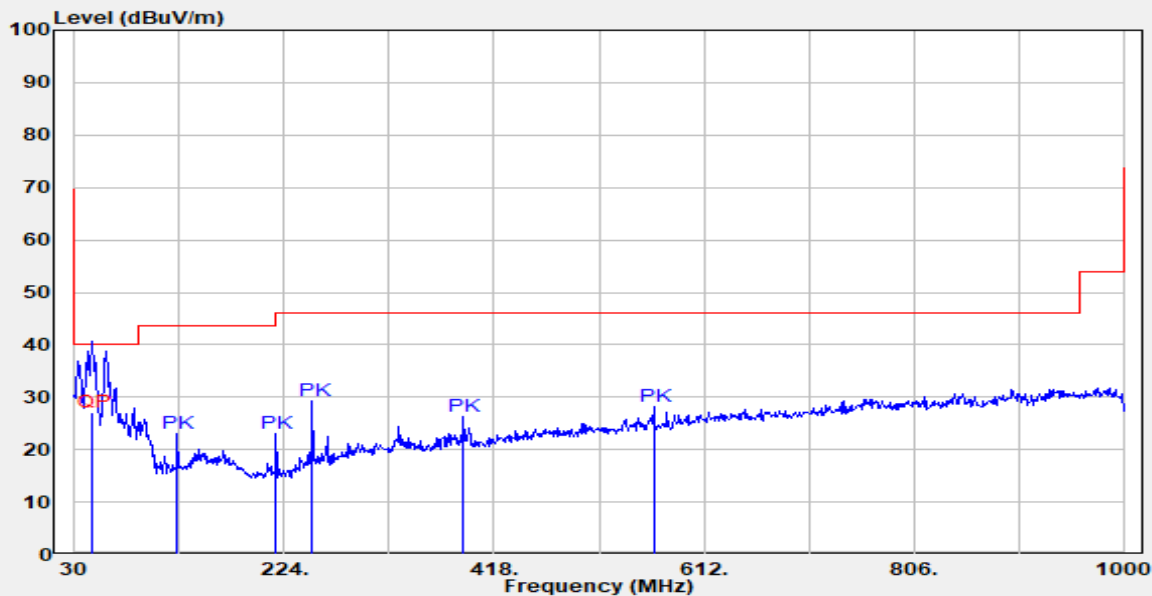
Test Site :SAC 2

Test Date :2025-11-10

Temp./Humi. :25.1°C/61%

Antenna Pol. :Vertical

Engineer :Bob Chao



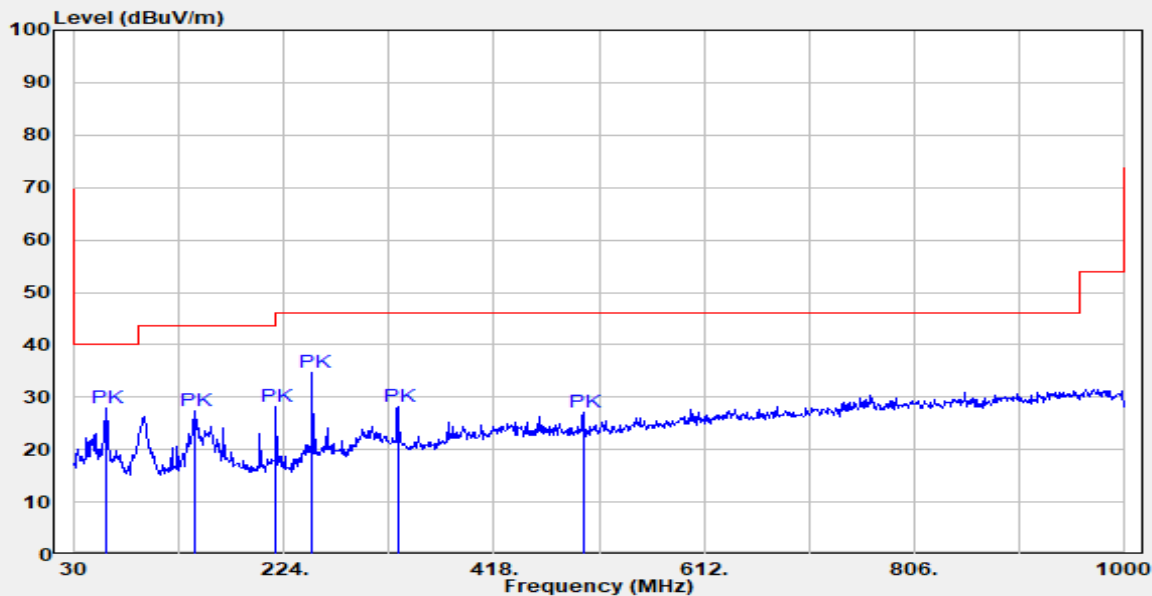
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
46.49	QP	39.61	-12.57	27.04	40.00	-12.96
125.06	Peak	37.89	-14.74	23.15	43.50	-20.35
216.24	Peak	38.69	-15.64	23.05	46.00	-22.95
250.19	Peak	42.90	-13.77	29.13	46.00	-16.87
389.87	Peak	35.89	-9.48	26.41	46.00	-19.59
565.44	Peak	33.88	-5.57	28.31	46.00	-17.69

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Report Number :TERF2511003772E2
 Operation Mode :BLE 1M
 Test Frequency :2440 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-11-10
 Temp./Humi. :25.1°C/61%
 Antenna Pol. :Horizontal
 Engineer :Bob Chao



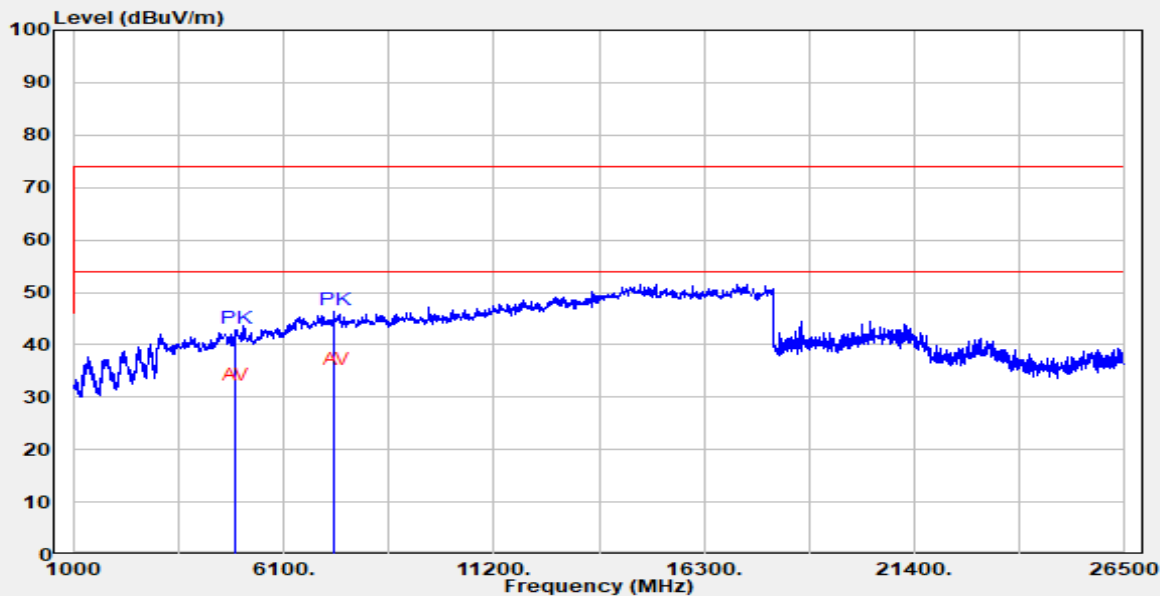
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
59.10	Peak	41.04	-13.04	28.00	40.00	-12.00
140.58	Peak	40.43	-13.16	27.27	43.50	-16.23
216.24	Peak	43.76	-15.64	28.12	46.00	-17.88
250.19	Peak	48.34	-13.77	34.57	46.00	-11.43
328.76	Peak	39.08	-11.01	28.07	46.00	-17.93
500.45	Peak	34.22	-7.09	27.13	46.00	-18.87

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Report Number :TERF2511003772E2
 Operation Mode :BLE 1M
 Test Frequency :2440 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-11-10
 Temp./Humi. :25.1°C/61%
 Antenna Pol. :Vertical
 Engineer :Bob Chao



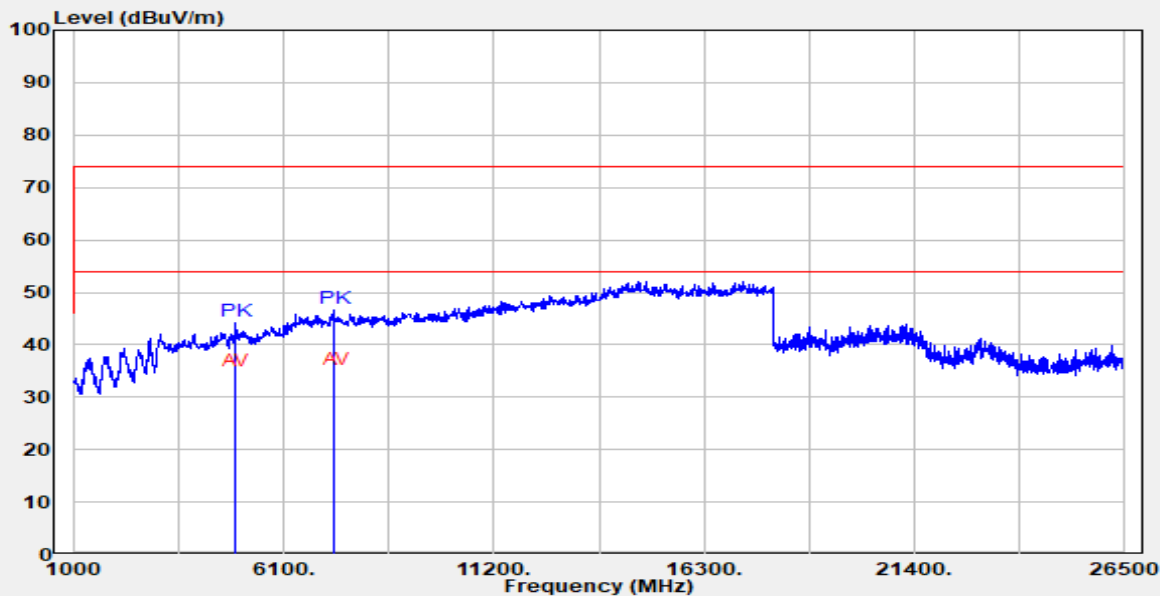
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4880.00	Peak	40.94	2.11	43.05	74.00	-30.95
4880.00	Average	30.05	2.11	32.16	54.00	-21.84
7320.00	Peak	39.53	7.06	46.59	74.00	-27.41
7320.00	Average	28.16	7.06	35.22	54.00	-18.78

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Report Number :TERF2511003772E2
 Operation Mode :BLE 1M
 Test Frequency :2440 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-11-10
 Temp./Humi. :25.1°C/61%
 Antenna Pol. :Horizontal
 Engineer :Bob Chao



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4880.00	Peak	42.41	2.11	44.52	74.00	-29.48
4880.00	Average	32.98	2.11	35.09	54.00	-18.91
7320.00	Peak	39.82	7.06	46.88	74.00	-27.12
7320.00	Average	28.28	7.06	35.34	54.00	-18.66

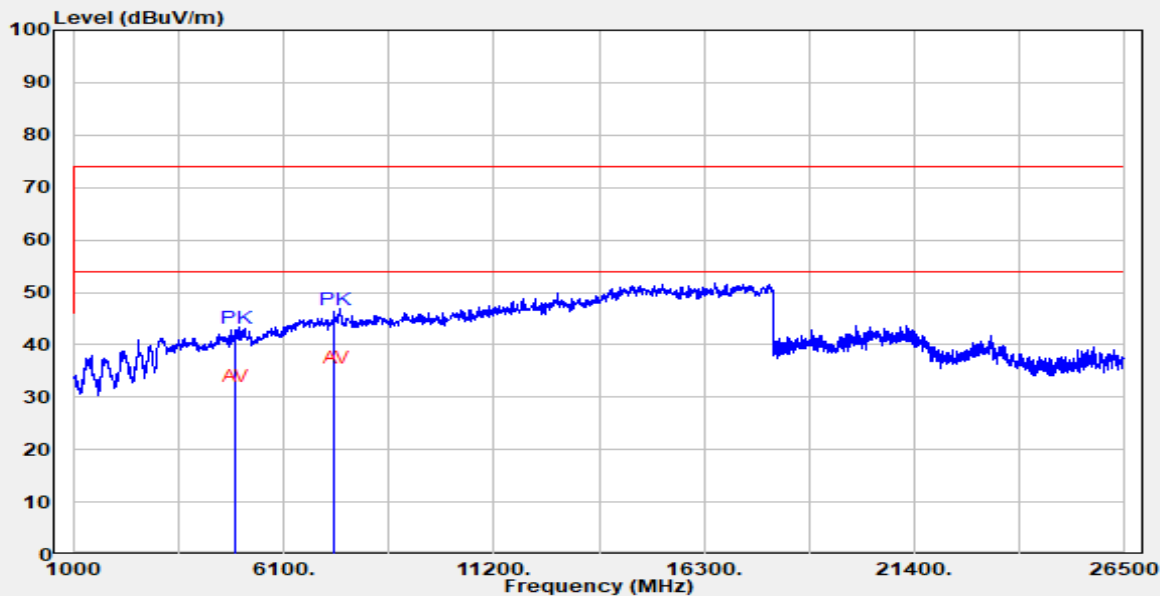
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Report Number :TERF2511003772E2
 Operation Mode :BLE 2M
 Test Frequency :2440 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-11-10
 Temp./Humi. :25.1°C/61%
 Antenna Pol. :Vertical
 Engineer :Bob Chao



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4880.00	Peak	40.89	2.11	43.00	74.00	-31.00
4880.00	Average	29.96	2.11	32.07	54.00	-21.93
7320.00	Peak	39.48	7.06	46.54	74.00	-27.46
7320.00	Average	28.32	7.06	35.38	54.00	-18.62

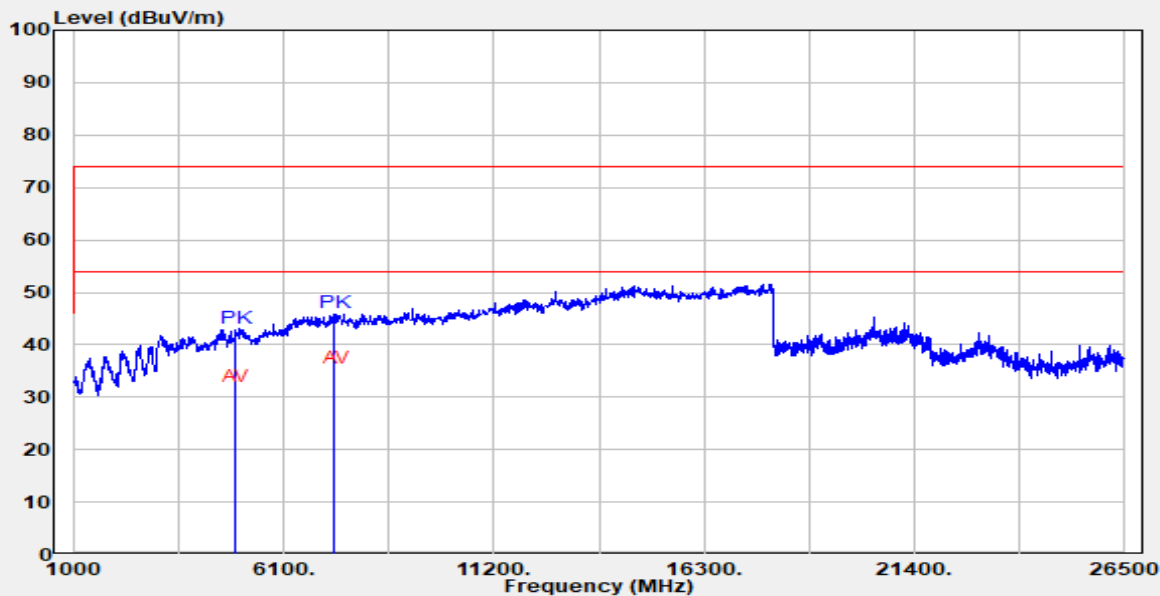
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Report Number :TERF2511003772E2
 Operation Mode :BLE 2M
 Test Frequency :2440 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-11-10
 Temp./Humi. :25.1°C/61%
 Antenna Pol. :Horizontal
 Engineer :Bob Chao



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4880.00	Peak	41.11	2.11	43.22	74.00	-30.78
4880.00	Average	29.85	2.11	31.96	54.00	-22.04
7320.00	Peak	39.12	7.06	46.18	74.00	-27.82
7320.00	Average	28.37	7.06	35.43	54.00	-18.57

~ End of Report ~

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