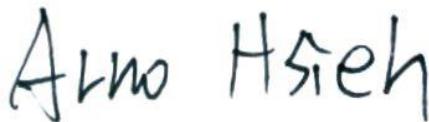


ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT

EUT Description Doorbell
Applicant: Immedia Semiconductor LLC
100 Riverpark Drive, Suite 125 North Reading, MA 01864,
United States of America
Manufacturer: Immedia Semiconductor LLC
100 Riverpark Drive, Suite 125 North Reading, MA 01864,
United States of America
Brand Name: blink
Model No. / ISED HVIN: BDM00300U
ISED PMN: BDM00300U
Report Number: TERF2503000971E2
FCC ID 2AF77-H2441840
IC: 20741-H2441840
Date of EUT Received: March 6, 2025
Date of Test: January 15, 2025 ~ April 22, 2025
Issue Date: April 24, 2025



Approved By _____
Arno Hsieh

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.247, ISED RSS-Gen and 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
TERF2503000971E2	00	Original	April 24, 2025	Karen Huang	

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.

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1 GENERAL INFORMATION

1.1 Product description

EUT Description	Doorbell
Brand Name:	blink
Model No. / ISED HVIN:	BDM00300U
Hardware Version:	DVT2
Firmware Version:	N/A
EUT Series No.:	GLC3QW01503400U1
Power Supply:	4.5Vdc from Battery
Test Software (Name/Version)	Tera Trem V4.106

1.2 RF Specification

Radio Technology:	LFR
Frequency Range:	902 – 928MHz
Channel number:	64 channels
Modulation type:	FSK
Transmit Power:	14.91 dBm (Peak)
Dwell Time:	<= 0.4s
Operating Mode:	Point-to-Point
Antenna Designation:	PIFA Antenna, Peak Gain: 0.21dBi

Note: Antenna information is provided by the applicant.

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1.3 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

RSS-247 issue 3 Aug. 2023

RSS-Gen, Issue 5 April 2018, Amendment 2 (February 2021)

ANSI C63.10:2013

1.4 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier	
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027	TW3702	
		SAC 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.

1.5 Special Accessories

There are no special accessories used while test was conducted.

1.6 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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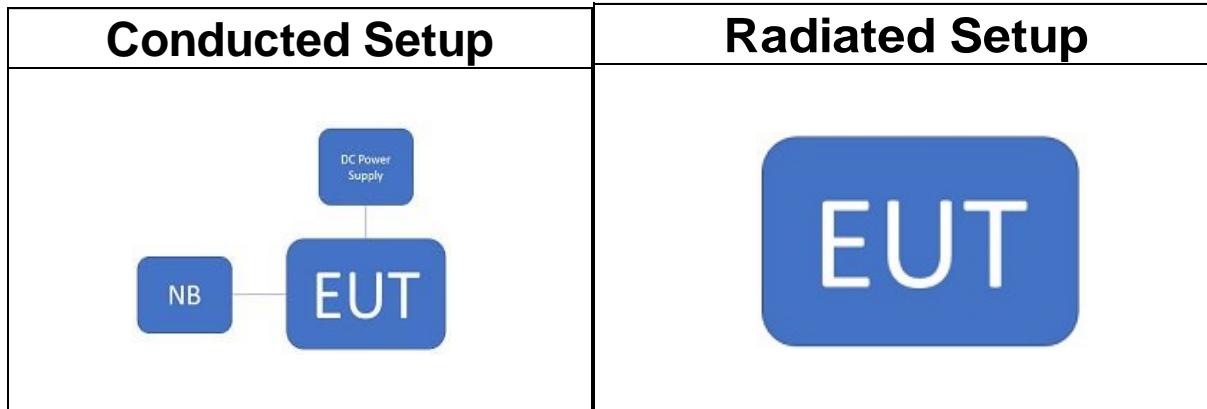
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2.5 Test Configuration



2.6 Control Unit(s)

Conducted Emission Test Site: Conducted C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
USB Cable	N/A	N/A	N/A	N/A	N/A
Notebook	Lenovo	T14	P0003332	N/A	N/A

Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
USB Cable	N/A	N/A	N/A	N/A	N/A
Notebook	Lenovo	T14	P0003332	N/A	N/A

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3 SUMMARY OF TEST RESULTS

FCC Rules	IC Rules	Description Of Test	Result
§15.207(a)	RSS-Gen §8.8	AC Power Line Conducted Emission	N/A
§15.247(a)(1)(i)	RSS-247 §5.2 a RSS-Gen §6.7	Emission Bandwidth	Compliant
§15.247(a)(1)(i)	RSS-247 §5.1 c	Number of Hopping Frequency	Compliant
§15.247(a)(1)	RSS-247 §5.1 b	Frequency Separation	Compliant
§15.247(b)(2)	RSS-247 §5.4 a	Peak Output Power	Compliant
§15.247(a)(1)(i)	RSS-247 §5.1 c	Time of Occupancy	Compliant
§15.205 §15.209 §15.247(d)	RSS-247 §5.5 RSS-Gen §8.9 RSS-Gen §8.10	Conducted & Radiated Band Edge and Spurious Emission	Compliant
§15.203	N/A	Antenna Requirement	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operating Frequencies

902~928 MHz							
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
1	902.4	21	910.4	41	918.4	61	926.4
2	902.8	22	910.8	42	918.8	62	926.8
3	903.2	23	911.2	43	919.2	63	927.2
4	903.6	24	911.6	44	919.6	64	927.6
5	904	25	912	45	920		
6	904.4	26	912.4	46	920.4		
7	904.8	27	912.8	47	920.8		
8	905.2	28	913.2	48	921.2		
9	905.6	29	913.6	49	921.6		
10	906	30	914	50	922		
11	906.4	31	914.4	51	922.4		
12	906.8	32	914.8	52	922.8		
13	907.2	33	915.2	53	923.2		
14	907.6	34	915.6	54	923.6		
15	908	35	916	55	924		
16	908.4	36	916.4	56	924.4		
17	908.8	37	916.8	57	924.8		
18	909.2	38	917.2	58	925.2		
19	909.6	39	917.6	59	925.6		
20	910	40	918	60	926		

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4.2 The Worst Test Modes and Channel Details

- 1 The EUT has been tested under operating condition.
- 2 Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
- 3 Investigation has been done on all the possible configurations for searching the worst case.

TRANSMIT RADIATED EMISSION TEST			
MODE	FREQUENCY BAND (MHz)	TEST FREQUENCY (MHz)	MODULATION
LFR	902.4 to 927.6	902.4, 915.2, 927.6	FSK

Note: The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

ANTNNA PORT CONDUCTED TEST			
MODE	AVAILABLE FREQUENCY	TESTED FREQUENCY	MODULATION
Peak Output Power, 20dB Band Width, Spurious Emission			
LFR	902.4 to 927.6	902.4, 915.2, 927.6	FSK
Band Edge			
LFR	902.4 to 927.6	902.4, 927.6	FSK
Frequency Separation			
LFR	902.4 to 927.6	902.4, 902.8, 903.2 914.8, 915.2, 915.6 926.8, 927.2, 927.6	FSK
Number of Hopping Frequency, Hopping Band edge			
LFR	902.4 to 927.6	902.4 to 927.6	FSK
Time of Occupancy(Dwell time)			
LFR	902.4 to 927.6	915.2	FSK

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5 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
Frequency Separation	+/-	1.48	Hz
Number of hopping frequency	+/-	1.48	Hz
Time of Occupancy	+/-	1.48	Hz
Temperature	+/-	0.6	°C
Humidity	+/-	3	%
DC / AC Power Source	+/-	1	%

Radiated Spurious Emission Measurement Uncertainty			
Polarization: Vertical	+/-	1.89	dB
	+/-	4.1	dB
	+/-	3.37	dB
	+/-	3.83	dB
Polarization: Horizontal	+/-	1.89	dB
	+/-	4.1	dB
	+/-	3.37	dB
	+/-	3.83	dB
Radiated Spurious Emission	+/-	2	dB
	+/-	1.59	dB
	+/-	1.71	dB
	+/-	1.64	dB
	+/-	3.84	dB
9kHz~30MHz			
30MHz - 1000MHz			
1GHz - 18GHz			
18GHz - 40GHz			
9kHz~30MHz			
30MHz - 1000MHz			
1GHz - 18GHz			
18GHz - 40GHz			
33GHz-50GHz			
50GHz-60GHz			
60GHz-90GHz			
90GHz-140GHz			
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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6 MEASUREMENT EQUIPMENT USED

6.1 Emission from AC power line

N/A

6.2 Conducted Measurement

Conducted Emission Test Site: Conducted C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Attenuator	Woken	WATT-218FS-10	RF18	11/14/2024	11/13/2025
Attenuator	Woken	WATT-218FS-10	RF19	11/14/2024	11/13/2025
DC Block	PASTERNAK	PE8210	RF35	11/14/2024	11/13/2025
DC Power Supply	Agilent	E3640A	MY53170008	08/29/2024	08/28/2025
Power Meter	Anritsu	ML2496A	1512003	09/04/2024	09/03/2025
Power Sensor	Anritsu	MA2411B	1339378	09/04/2024	09/03/2025
Power Sensor	Anritsu	MA2411B	1339379	09/04/2024	09/03/2025
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071573	05/24/2024	05/23/2025
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R

6.3 Radiated Measurement

Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
3m Site NSA	SGS	966 chamber D	N/A	04/30/2024	04/29/2025
Attenuator	Woken	WATT-218FS-10	RF17	11/14/2024	11/13/2025
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-617	12/17/2024	12/16/2025
Coaxial Cable	EMCI+Huber Suhner	RG 214/U+EMC104-SM-SM-500+SUCAFLEX 104+16+EMC105-SM-SM-11000+EMC106-SM-SM-2300	W22.01+W21.01+150707+MY969/4+16+190825+150702	11/14/2024	11/13/2025
Horn Antenna	Schwarzbeck	BBHA9120D	1341	05/30/2024	05/29/2025
Lowpass Filter	Woken	EWT-56-0019	RF163	11/14/2024	11/13/2025
Pre-Amplifier	EMC Instruments	EMC12630SE	980273	11/14/2024	11/13/2025
Pre-Amplifier	EMC Instruments	EMC9135	980234	11/14/2024	11/13/2025
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	10/16/2024	10/15/2025
Active Loop Antenna	COM-POWER	AL-130R	10160105	12/11/2024	12/10/2025
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R

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

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7 CONDUCTED EMISSION TEST

7.1 Standard Applicable

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

Frequency range MHz	Limits (dBuV)	
	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

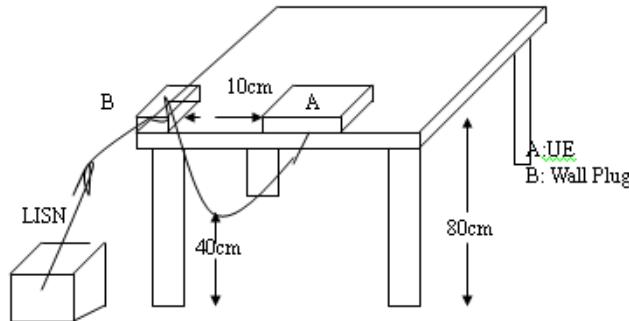
Note

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 Set-up:



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 frequency measured were complete.

7.5 Measurement Result

N/A; Powered from AA battery.

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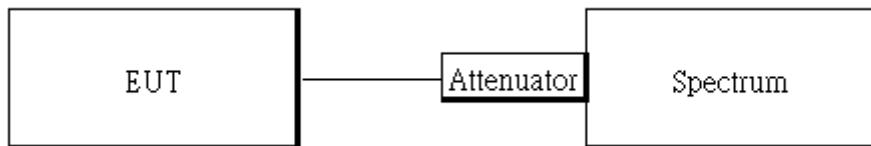
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8 EMISSION BANDWIDTH

8.1 Standard Applicable

The minimum 6 dB bandwidth shall be 500 kHz.

8.2 Test Setup



8.3 Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as RBW=1% to 5% OBW, VBW = 3 x RBW, Span= large enough to capture all products of the modulation process, Sweep=auto, Detector = Peak, and Max hold for 20dB Bandwidth test.
4. Mark the peak frequency and –20dB (upper and lower) frequency and Turn on the 99% bandwidth function, max reading.
5. Repeat above procedures until all test default channel is completed

8.4 20dB Bandwidth

FSK

CH	20 dB BW (MHz)	2/3 BW (MHz)
902.4	0.105	0.07
915.2	0.1057	0.07
927.6	0.1048	0.07

8.5 99% Bandwidth

FSK

CH	99% BW (MHz)
902.4	0.10106
915.2	0.10059
927.6	0.10002

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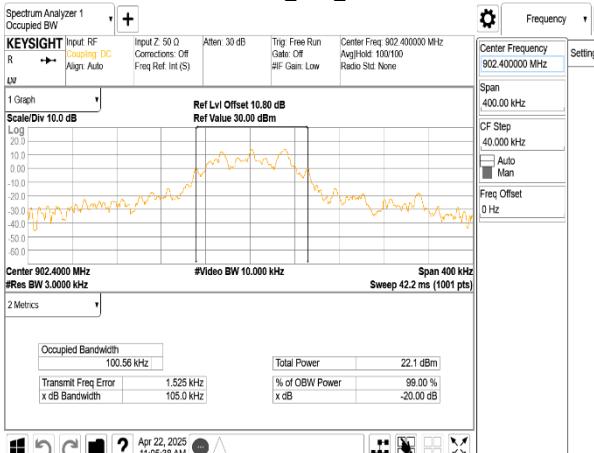
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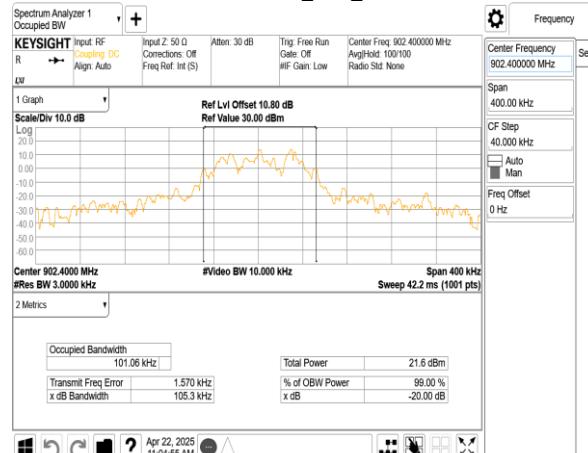
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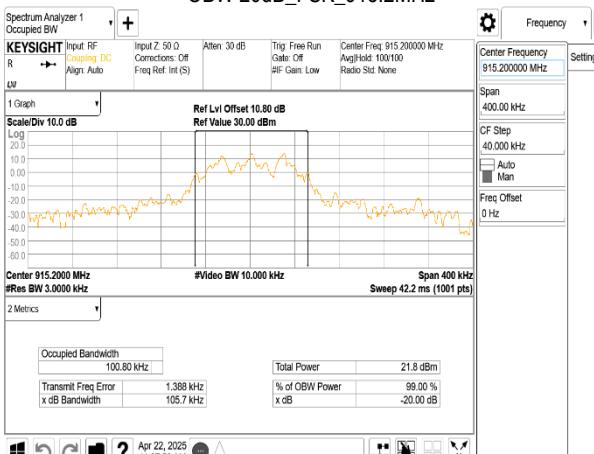
OBW 20dB_FSK_902.4MHz



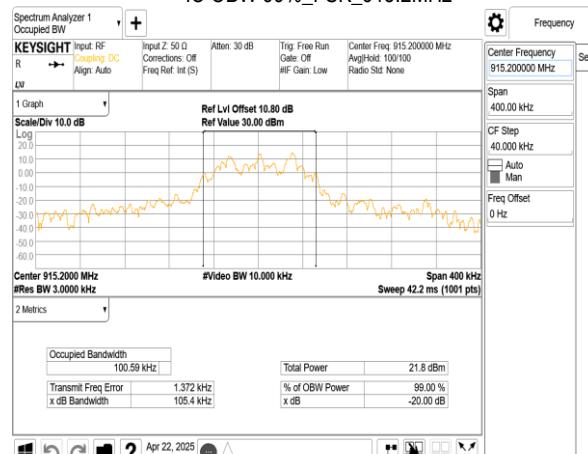
IC OBW 99%_FSK_902.4MHz



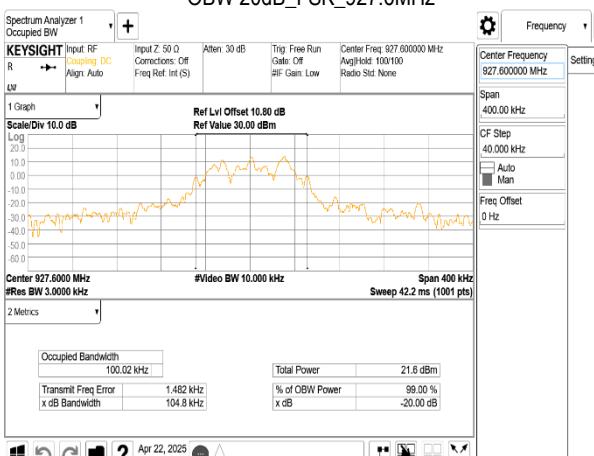
OBW 20dB_FSK_915.2MHz



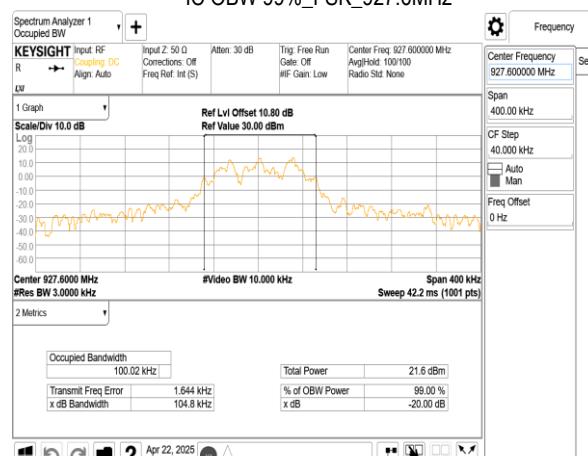
IC OBW 99%_FSK_915.2MHz



OBW 20dB_FSK_927.6MHz



IC OBW 99%_FSK_927.6MHz



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9 NUMBER OF HOPPING FREQUENCY

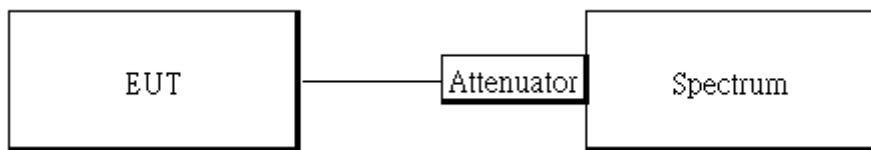
9.1 Standard Applicable

Frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies.

if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies.

The maximum allowed 20 dB bandwidth of the hopping channel is 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 ANSI C63.10:2013.
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 spectrum analyzer Start= 902.4MHz, Stop = 927.6MHz, Sweep = auto.
5. Set the spectrum analyzer as RBW< 30% Freq. spacing or the 20 dB bandwidth, whichever is smaller, VBW \geq RBW, Detector = Peak
6. Max hold, view and count how many channel in the band.

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9.4 Measurement Result:

FSK_902.4MHz-927.6MHz



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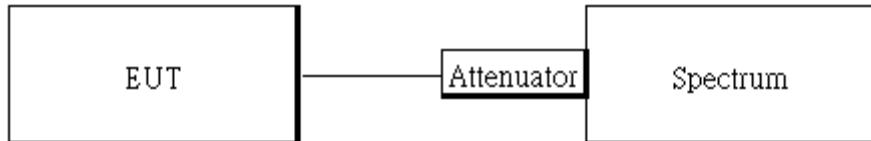
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10 FREQUENCY SEPARATION

10.1 Standard Applicable

Frequency hopping systems shall have hopping channel carrier frequencies separated by minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

10.2 Test Setup



10.3 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows ANSI C63.10:2013.
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 center frequency of spectrum analyzer = middle of hopping channel.
5. Set the RBW approximately 30% of the channel spacing, $VBW \geq RBW$.
6. Adjust Span to Wide enough to capture the peaks of two adjacent channels.
7. Sweep = auto.
8. Max hold. Mark 3 Peaks of hopping channel and record the 3 peaks frequency.

10.4 Measurement Result

Channel separation (kHz)	Limit	Result
400	≥ 25 kHz or 2/3 times 20dB bandwidth	PASS

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FSK_CH1CH2



FSK_CH32CH33



FSK_CH63CH64



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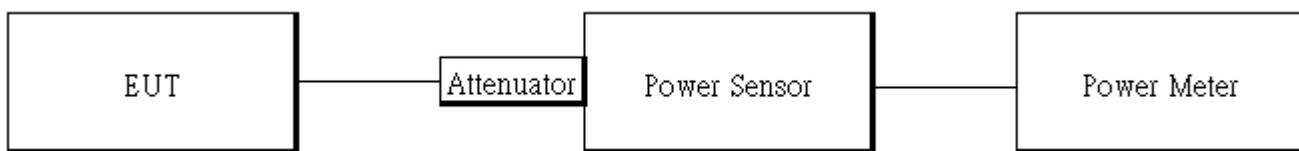
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11 PEAK OUTPUT POWER MEASUREMENT

11.1 Standard Applicable

For frequency hopping systems operating in the 902-928 MHz band employing at least 50 hopping channels, conducted output power shall not exceed 1Watt and EIRP shall not exceed 4W. For systems employing less than 50 hopping channels, conducted output power shall not exceed 0.25Watt and EIRP shall not exceed 1W.

11.2 Test Setup



11.3 Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows ANSI C63.10.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter or spectrum. (Max Hold, Detector = Peak, RBW >=20dB bandwidth)
4. Record the max. reading.
5. Repeat above procedures until all default test channel is completed.

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11.4 Measurement Result

FSK mode (Peak):

Freq. (MHz)	Power Setting	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
902.4	6	14.91	30.974	1000
915.2	6	14.71	29.580	1000
927.6	6	14.55	28.510	1000

FSK mode (Average):

Freq. (MHz)	Power Setting	Avg. Output Power (dBm)	Output Power (mW)	Limit (mW)
902.4	6	14.70	29.528	1000
915.2	6	14.52	28.330	1000
927.6	6	14.47	28.005	1000

*Note: Avg. output power has been calculated with duty factor.

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12 TIME OF OCCUPANCY (DWELL TIME)

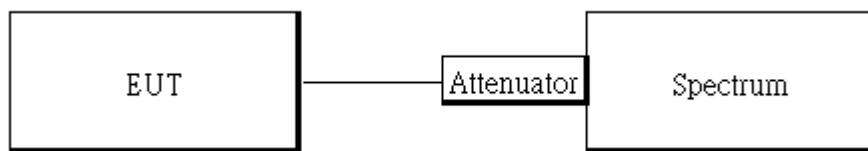
12.1 Standard Applicable

For FHSs in the band 902-928 MHz:

if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the average time of occupancy on any channel shall not be greater than 0.4 seconds within a 20-second period.

If the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the average time of occupancy on any channel shall not be greater than 0.4 seconds within a 10-second period.

12.2 Test Setup



12.3 Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows ANSI C63.10:2013.
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 center frequency of spectrum analyzer = operating frequency.
5. Set the spectrum analyzer as RBW, VBW=100kHz, 300kHz, Span = 0Hz, Detector = Peak, Adjust Sweep = 50ms.
6. Repeat above procedures until all frequency of the interest measured were complete.

12.4 Tabular Result of the Measurement:

FSK

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)	1/T (kHz)	1/T Minimum VBW(kHz)
915.2	FSK	9.60	400	0.104	1.00

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12.5 Measurement Result:

Dwell Time_FSK_915.2MHz



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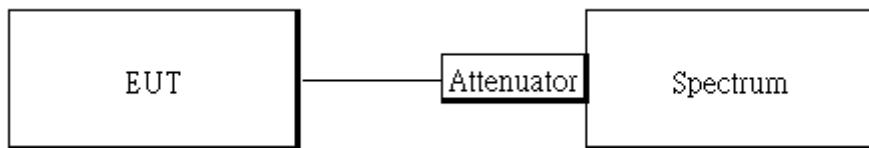
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13 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

13.1 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) and RSS-Gen §8.10, must also comply with the radiated emission limits specified in §15.209(a) and RSS-Gen §8.9.

13.2 Test Setup



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13.3 Measurement Procedure

Conducted Band Edge:

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows ANSI C63.10:2013.
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 center frequency of spectrum analyzer = operating frequency.
5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Sweep = auto
6. Mark Peak and record the max. level.
7. Repeat above procedures until all frequency measured were complete.

Conducted Spurious Emission:

1. To connect Antenna Port of EUT to Spectrum.
2. The testing follows ANSI C63.10:2013.
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.

NOTE: cable loss as 0.8dB that offsets in the spectrum

13.4 Measurement Result

See next page for test plots.

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Band Edge_FSK_902.4MHz



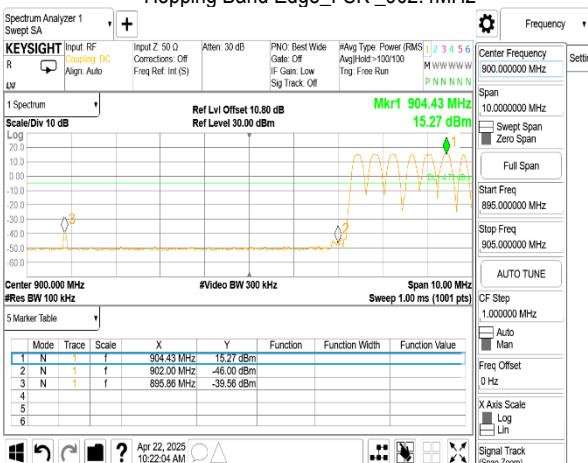
Hopping Band Edge_FSK_927.6MHz



Band Edge_FSK_927.6MHz



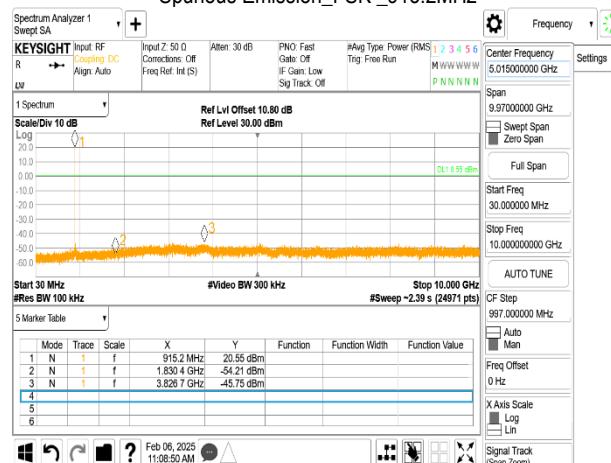
Hopping Band Edge_FSK_902.4MHz



Spurious Emission_FSK_902.4MHz



Spurious Emission_FSK_915.2MHz



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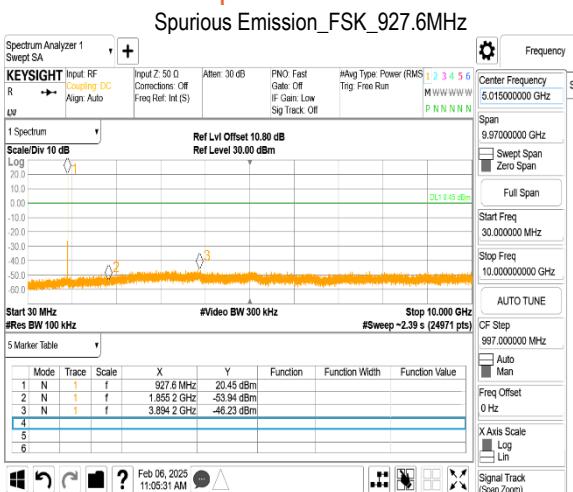
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14 SPURIOUS RADIATED EMISSION TEST

14.1 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 limit as below.

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

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

Note:

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

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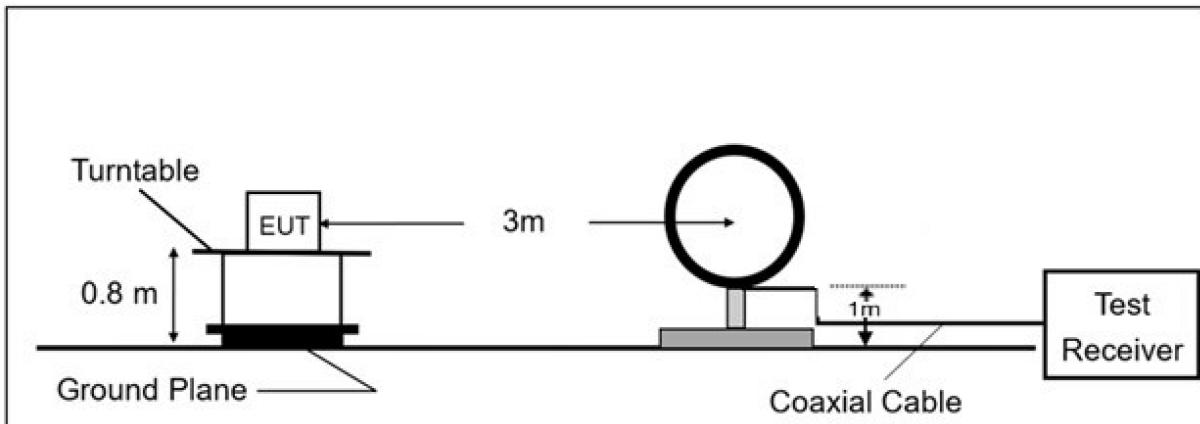
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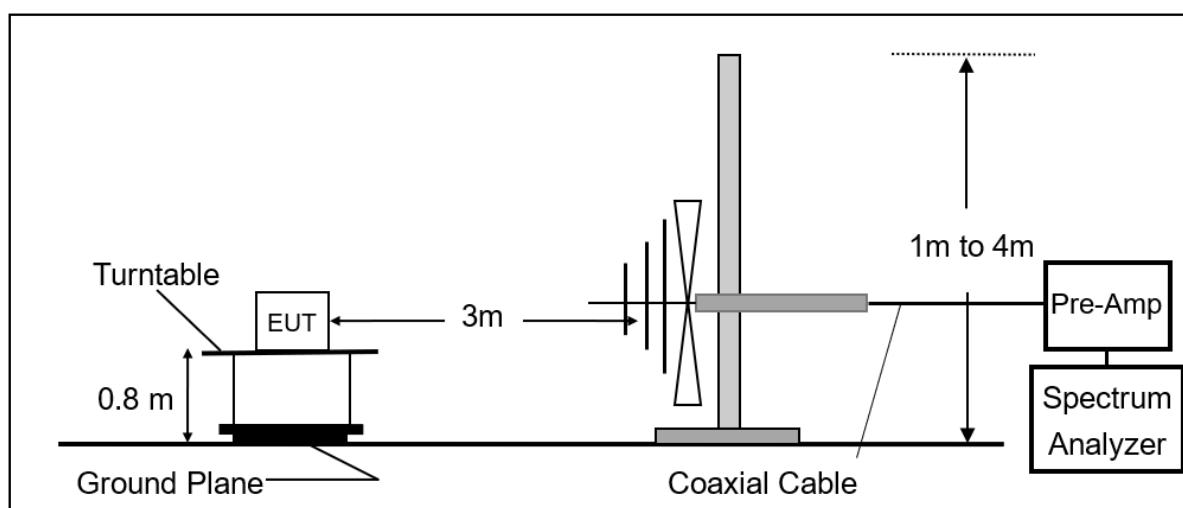
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14.2 Test Setup

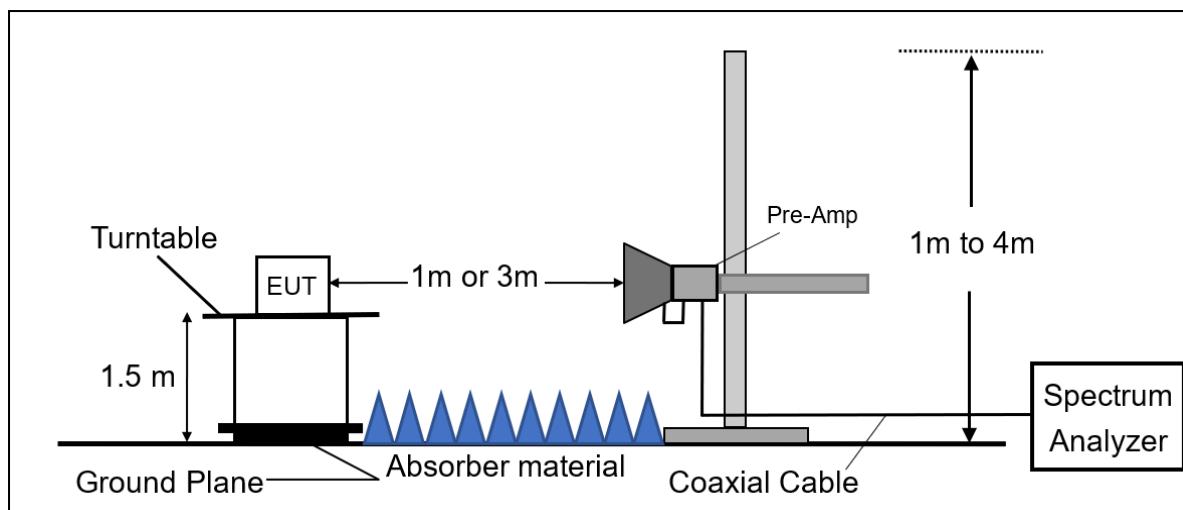
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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14.3 Measurement Procedure

1. The testing follows the Measurement Procedure of ANSI C63.10:2013.
2. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz.
6. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Maximum Emission Measurements at frequency above 1 GHz.
8. According to C63.10:2013 Section 7.5 Procedure for determining the average value of pulsed emissions with duty cycle correction factor $20 \log (T_{on}/100ms)$.
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.

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14.4 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 dB μ V/m, which converts $20 \times \log(\mu\text{V}/\text{m})$

Actual FS(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

14.5 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.

14.6 AVG Duty Cycle Factor calculation

N/A

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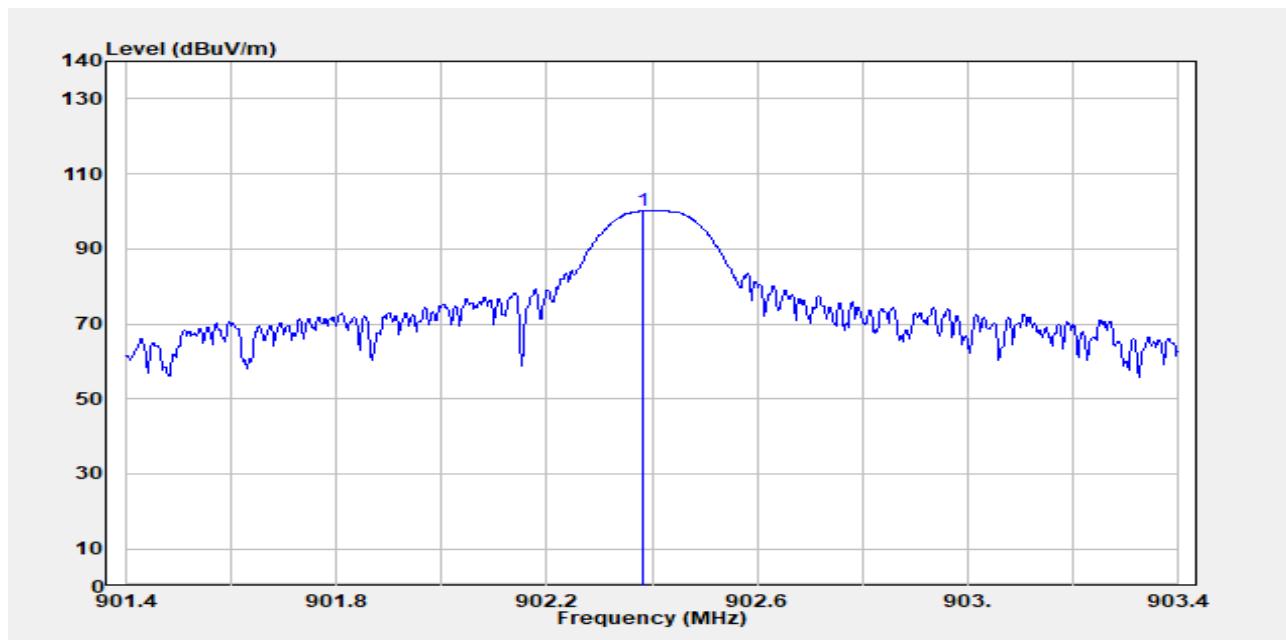
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14.7 Measurement Result:

14.7.1 Main Result

Report Number	:TERF2502000809E2	Test Site	:SAC D
Operation Mode	:FSK	Test Date	:2025-04-08
Test Frequency	:902.4 MHz	Temp./Humi.	:20.2°C/55%
Test Mode	:Main	Antenna Pol.	:Vertical
EUT Pol	:E1 Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
902.38	Peak	105.36	-5.30	100.06	-	-

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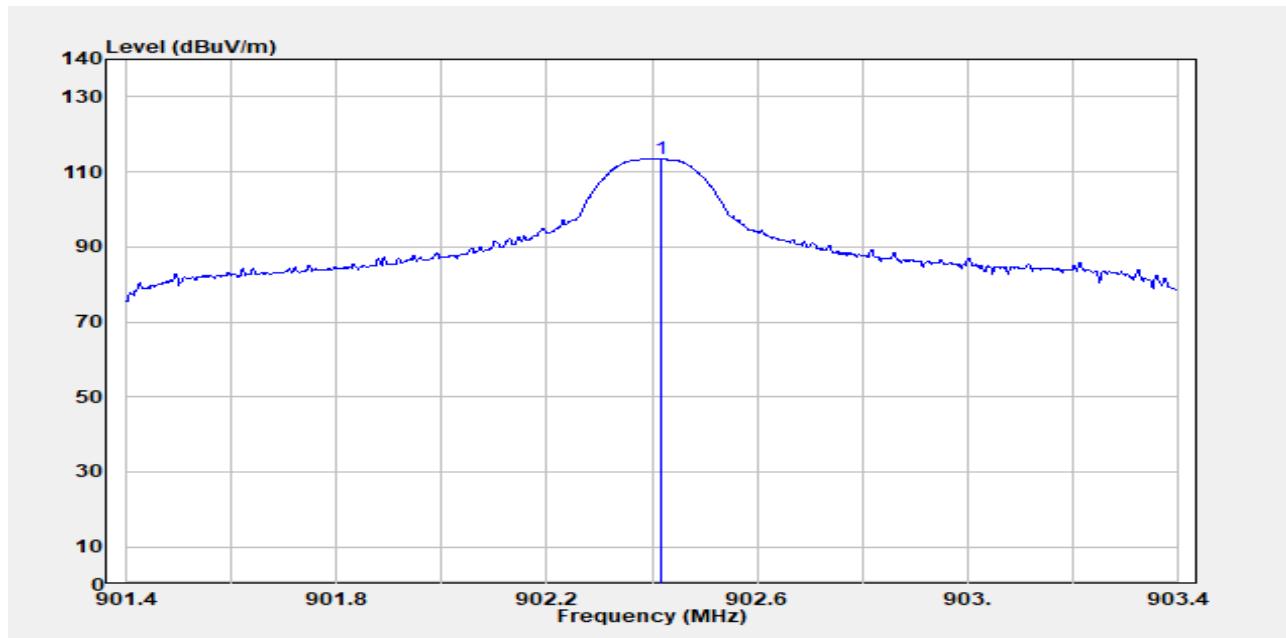
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Report Number :TERF2502000809E2 Test Site :SAC D
Operation Mode :FSK Test Date :2025-04-08
Test Frequency :902.4 MHz Temp./Humi. :20.2°C/55%
Test Mode :Main Antenna Pol. :Horizontal
EUT Pol :E1 Plane Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
902.42	Peak	118.62	-5.30	113.32	-	-

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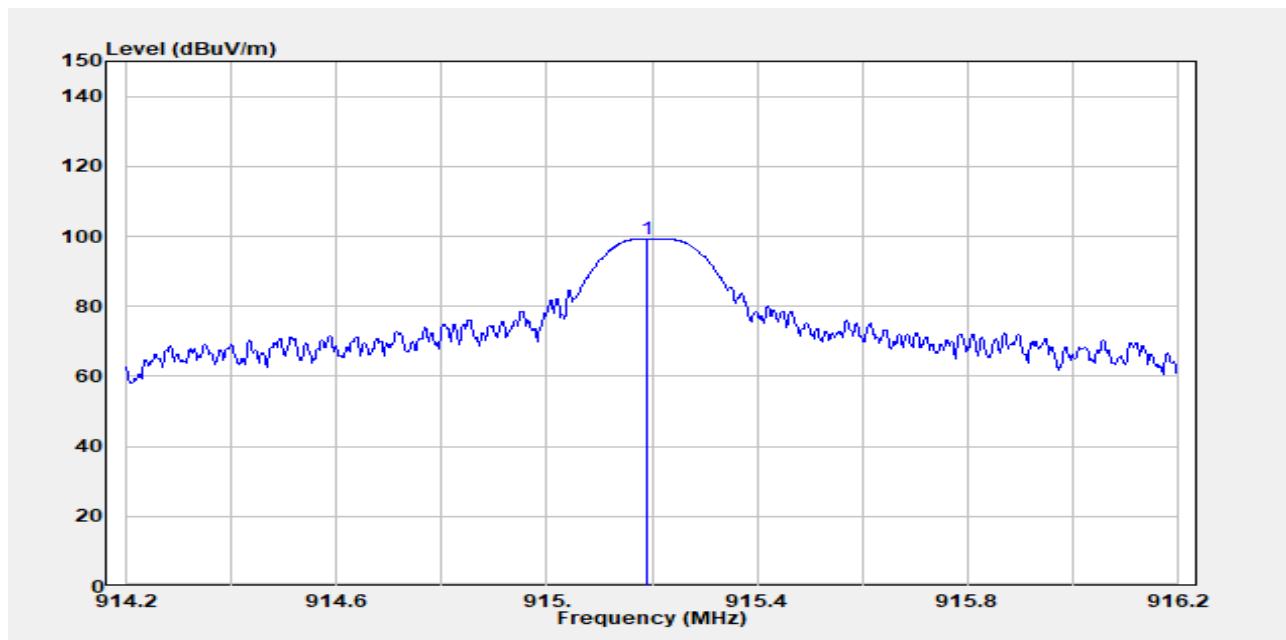
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Report Number :TERF2503000971E2 Test Site :SAC D
Operation Mode :FSK Test Date :2025-04-08
Test Frequency :915.2 MHz Temp./Humi. :20.3°C/60%
Test Mode :Main Antenna Pol. :Vertical
EUT Pol :E1 Plane Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
915.19	Peak	104.36	-5.04	99.32	-	-

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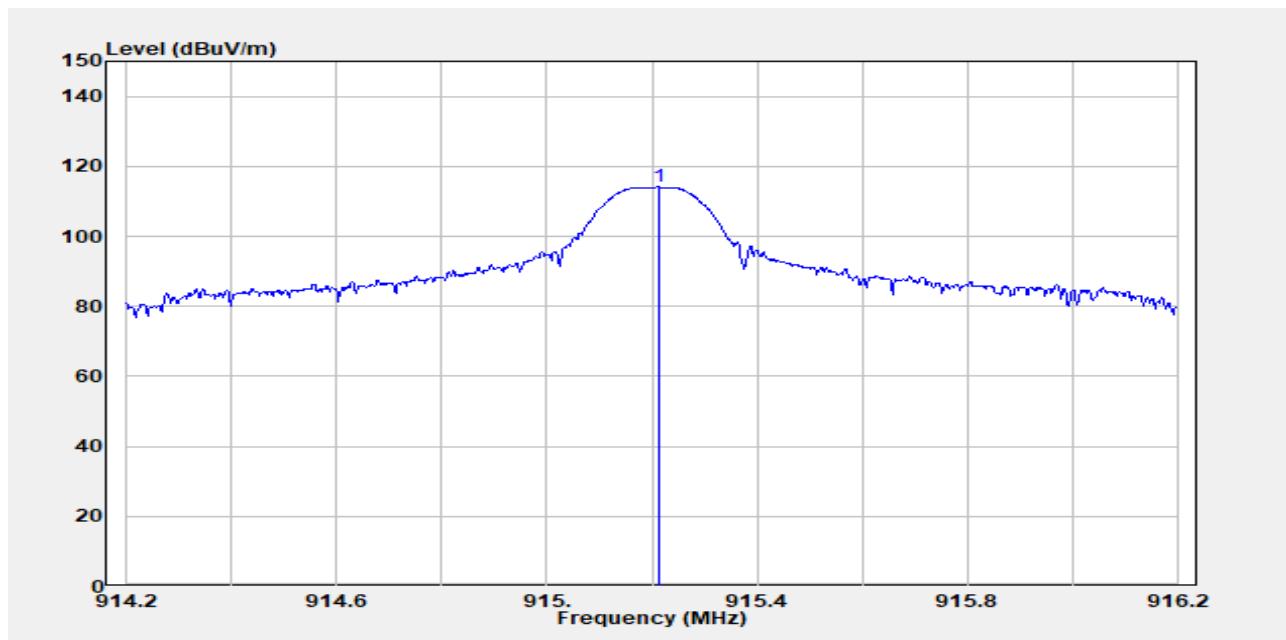
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Report Number :TERF2503000971E2 Test Site :SAC D
Operation Mode :FSK Test Date :2025-04-08
Test Frequency :915.2 MHz Temp./Humi. :20.3°C/60%
Test Mode :Main Antenna Pol. :Horizontal
EUT Pol :E1 Plane Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
915.21	Peak	119.08	-5.04	114.04	-	-

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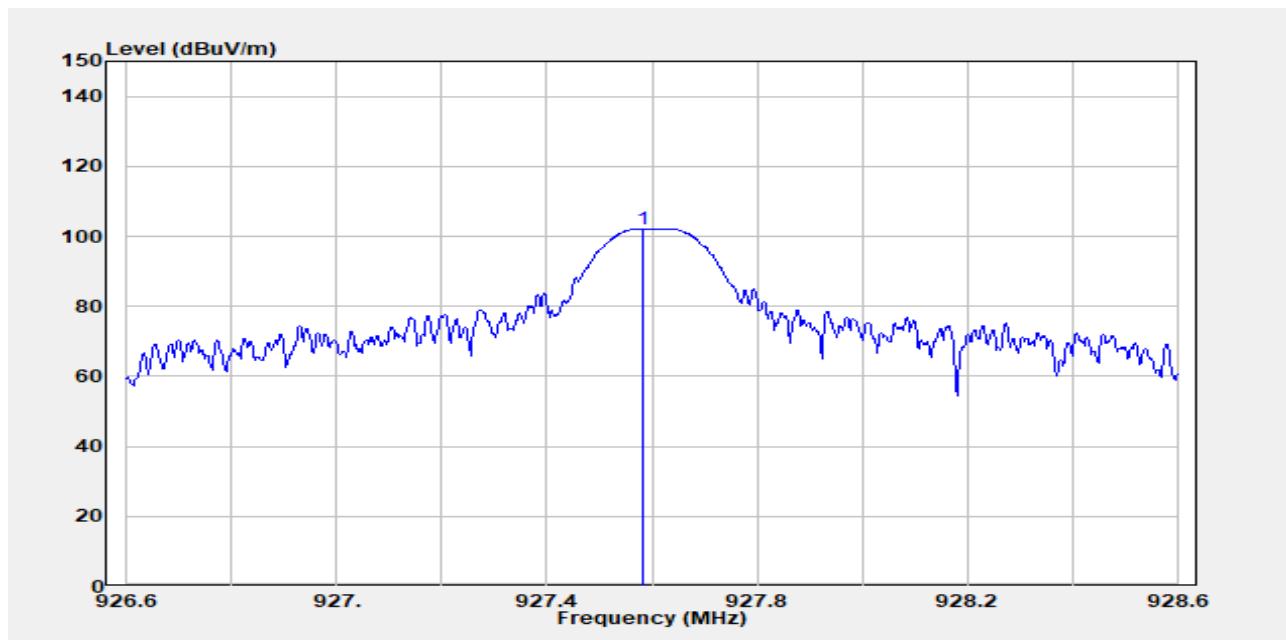
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Report Number :TERF2503000971E2 Test Site :SAC D
Operation Mode :FSK Test Date :2025-04-08
Test Frequency :927.6 MHz Temp./Humi. :20.3°C/60%
Test Mode :Main Antenna Pol. :Vertical
EUT Pol :E1 Plane Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
927.58	Peak	106.97	-4.78	102.19	-	-

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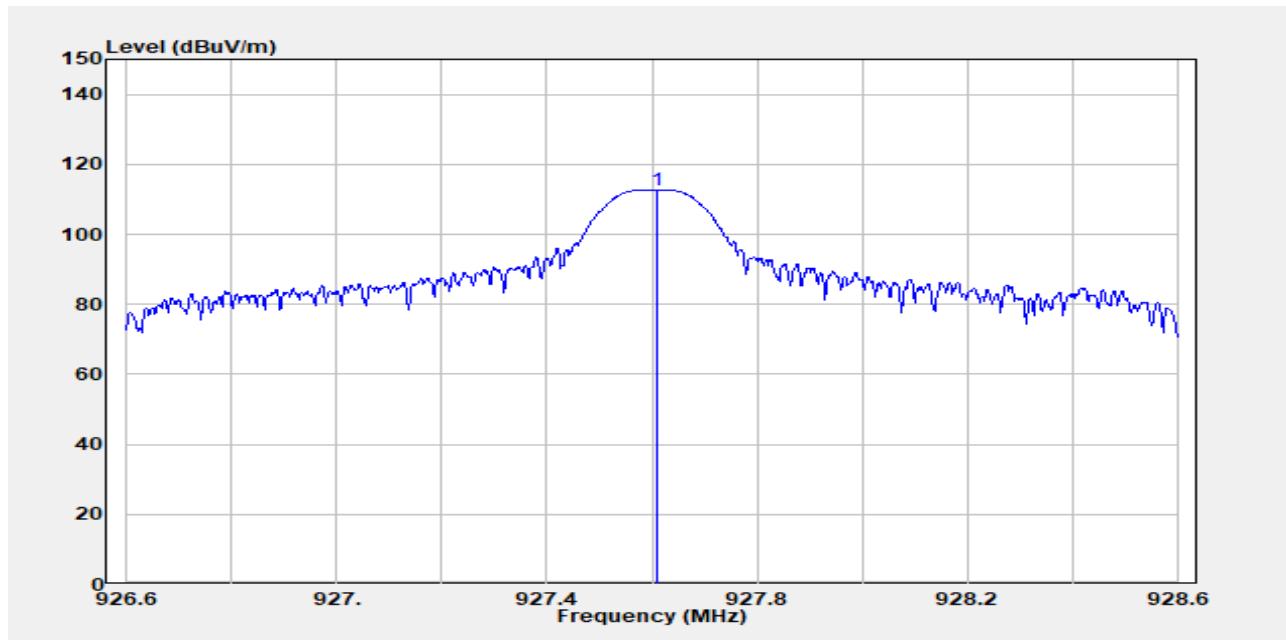
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Report Number :TERF2503000971E2 Test Site :SAC D
Operation Mode :FSK Test Date :2025-04-08
Test Frequency :927.6 MHz Temp./Humi. :20.3°C/60%
Test Mode :Main Antenna Pol. :Horizontal
EUT Pol :E1 Plane Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
927.61	Peak	117.38	-4.78	112.60	-	-

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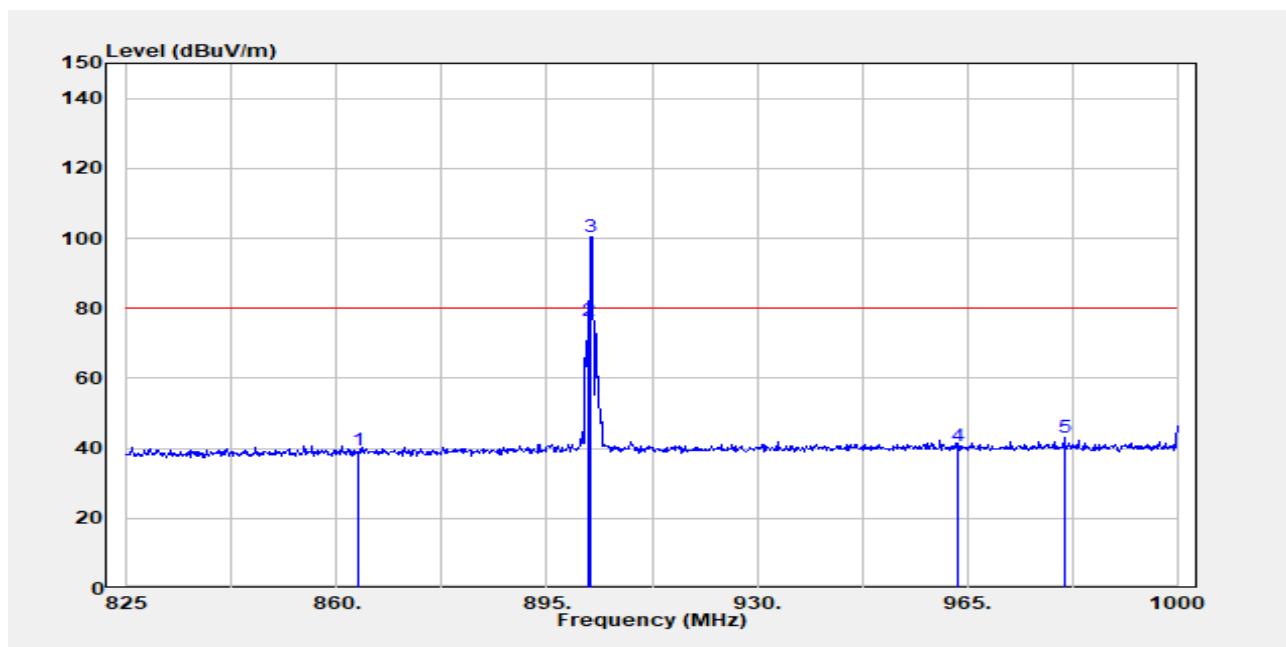
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14.7.2 Bandedge Result

Report Number	:TERF2503000971E2	Test Site	:SAC D
Operation Mode	:FSK	Test Date	:2025-04-08
Test Frequency	:902.4 MHz	Temp./Humi.	:21.3°C/68%
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:E1 Plane	Engineer	:Temo Chen



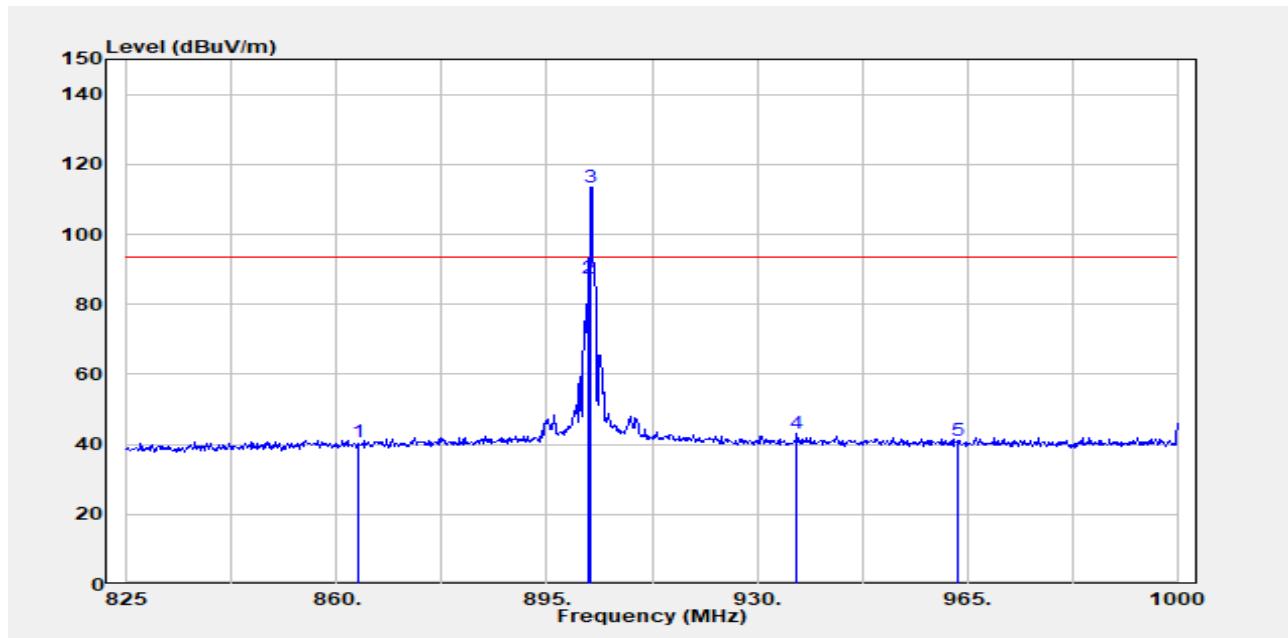
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
863.50	Peak	45.45	-5.93	39.52	80.06	-40.54
902.00	Peak	81.84	-5.31	76.53	80.06	-3.53
902.40	Peak	105.85	-5.30	100.55	-	-
963.43	Peak	45.07	-4.23	40.84	80.06	-39.22
981.28	Peak	47.10	-4.19	42.91	80.06	-37.15

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Report Number :TERF2503000971E2 Test Site :SAC D
Operation Mode :FSK Test Date :2025-04-08
Test Frequency :902.4 MHz Temp./Humi. :21.3°C/68%
Test Mode :Bandedge Antenna Pol. :Horizontal
EUT Pol :E1 Plane Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
863.50	Peak	46.50	-5.93	40.57	93.32	-52.75
901.83	Peak	92.62	-5.31	87.31	93.32	-6.01
902.40	Peak	118.73	-5.30	113.43	-	-
936.65	Peak	47.70	-4.57	43.13	93.32	-50.19
963.43	Peak	45.09	-4.23	40.86	93.32	-52.46

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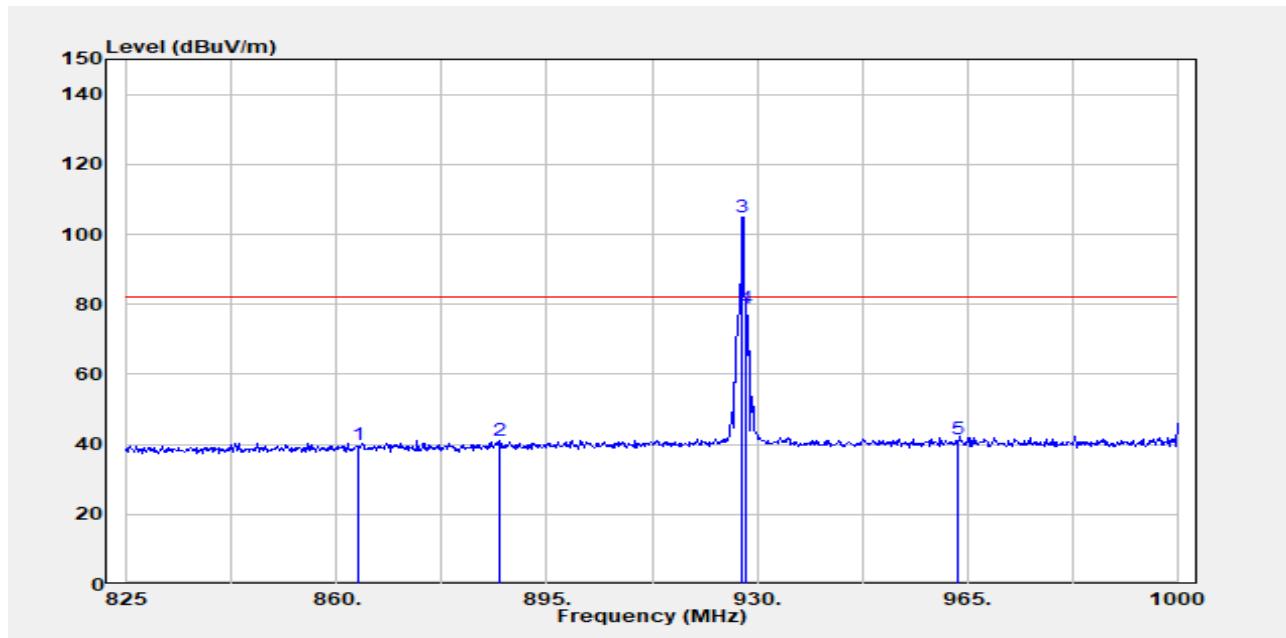
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Report Number :TERF2503000971E2 Test Site :SAC D
Operation Mode :FSK Test Date :2025-04-18
Test Frequency :927.6 MHz Temp./Humi. :21.3°C/68%
Test Mode :Bandedge Antenna Pol. :Vertical
EUT Pol :E1 Plane Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
863.50	Peak	45.83	-5.93	39.90	82.19	-42.29
886.95	Peak	46.88	-5.65	41.23	82.19	-40.96
927.60	Peak	109.70	-4.78	104.92	-	-
928.00	Peak	83.80	-4.77	79.03	82.19	-3.16
963.43	Peak	45.64	-4.23	41.41	82.19	-40.78

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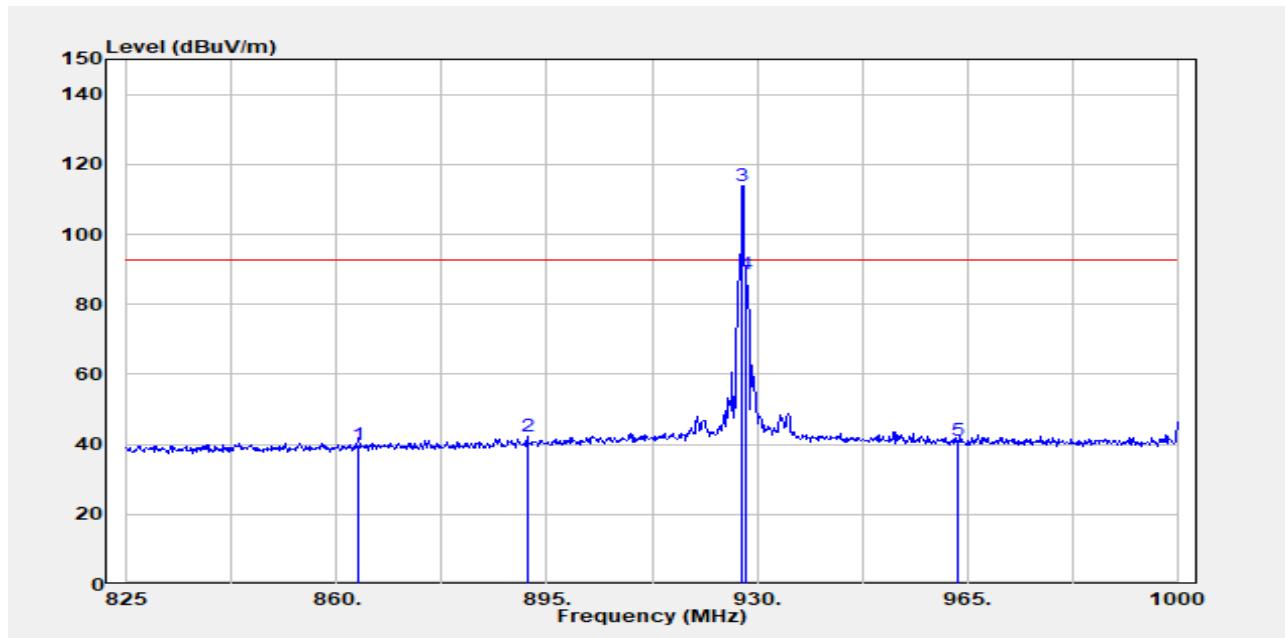
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Report Number :TERF2503000971E2 Test Site :SAC D
Operation Mode :FSK Test Date :2025-04-18
Test Frequency :927.6 MHz Temp./Humi. :21.3°C/68%
Test Mode :Bandedge Antenna Pol. :Horizontal
EUT Pol :E1 Plane Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
863.50	Peak	45.90	-5.93	39.97	92.60	-52.63
891.68	Peak	47.91	-5.58	42.33	92.60	-50.27
927.60	Peak	118.63	-4.78	113.85	-	-
928.00	Peak	93.59	-4.77	88.82	92.60	-3.78
963.43	Peak	45.17	-4.23	40.94	92.60	-51.66

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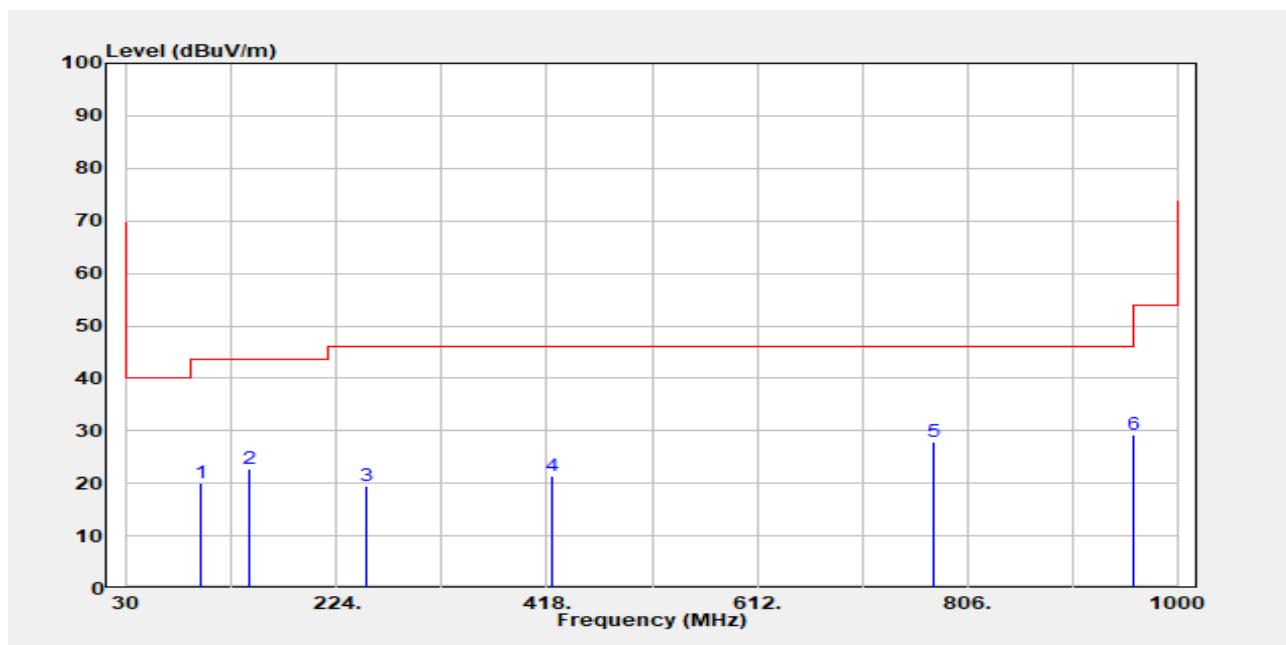
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14.7.3 Radiated Spurious Emission

Report Number	:TERF2503000971E2	Test Site	:SAC D
Operation Mode	:FSK	Test Date	:2025-04-08
Test Frequency	:915.2 MHz	Temp./Humi.	:21.3°C/65%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:E1 Plane	Engineer	:Temo Chen



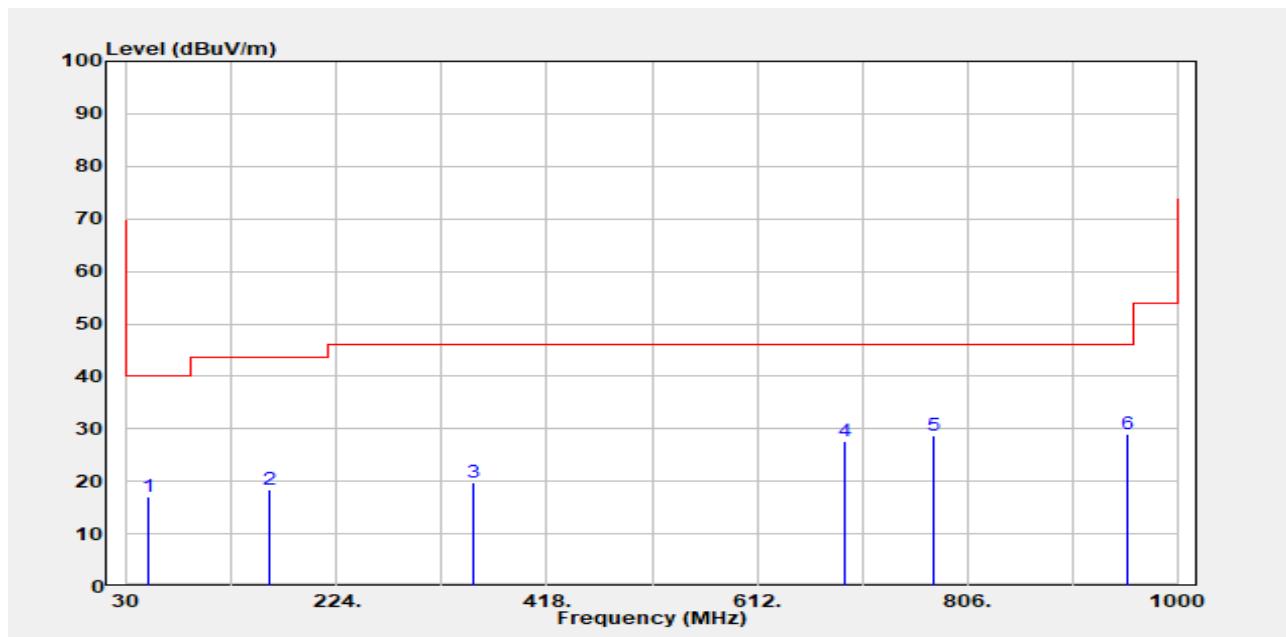
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
97.61	Peak	42.16	-22.19	19.97	43.50	-23.53
143.88	Peak	39.65	-16.91	22.74	43.50	-20.76
252.03	Peak	37.34	-17.88	19.46	46.00	-26.54
423.04	Peak	34.27	-12.93	21.34	46.00	-24.66
774.28	Peak	34.29	-6.40	27.89	46.00	-18.11
959.26	Peak	33.48	-4.25	29.23	46.00	-16.77

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Report Number :TERF2503000971E2 Test Site :SAC D
Operation Mode :FSK Test Date :2025-04-08
Test Frequency :915.2 MHz Temp./Humi. :21.3°C/65%
Test Mode :Tx Antenna Pol. :Horizontal
EUT Pol :E1 Plane Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
49.50	Peak	34.45	-17.43	17.02	40.00	-22.98
162.50	Peak	35.01	-16.54	18.47	43.50	-25.03
350.10	Peak	34.71	-14.93	19.78	46.00	-26.22
693.58	Peak	35.59	-7.99	27.60	46.00	-18.40
775.83	Peak	35.13	-6.38	28.75	46.00	-17.25
953.34	Peak	33.36	-4.30	29.06	46.00	-16.94

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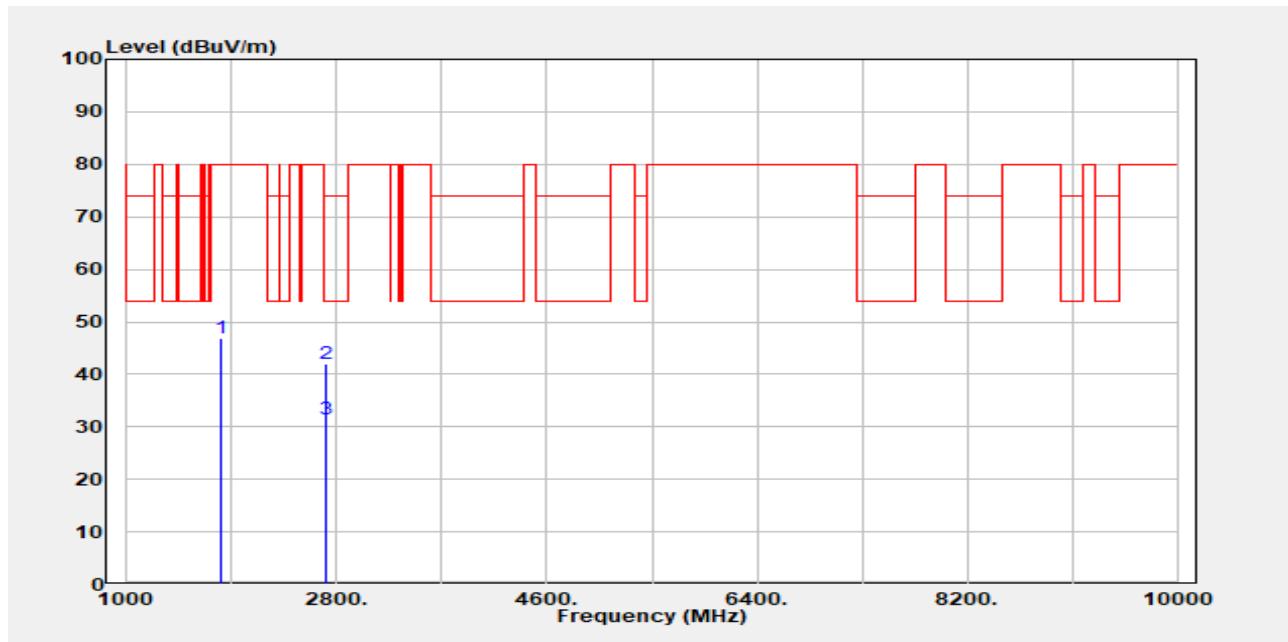
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Report Number :TERF2503000971E2 Test Site :SAC D
Operation Mode :FSK Test Date :2025-04-18
Test Frequency :902.4 MHz Temp./Humi. :20.3°C/60%
Test Mode :Tx Antenna Pol. :Vertical
EUT Pol :E1 Plane Engineer :Temo Chen



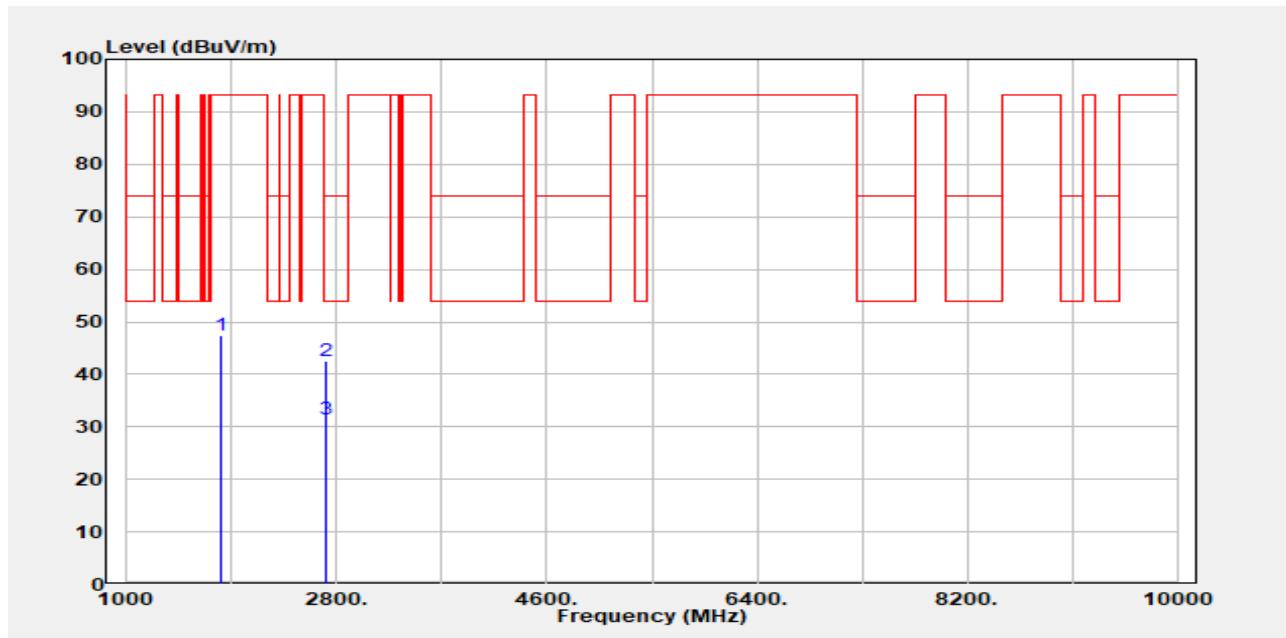
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
1804.80	Peak	47.27	-0.40	46.87	80.06	-33.19
2707.20	Peak	38.37	3.71	42.08	74.00	-31.92
2707.20	Average	27.69	3.71	31.40	54.00	-22.60

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Report Number :TERF2503000971E2 Test Site :SAC D
Operation Mode :FSK Test Date :2025-04-18
Test Frequency :902.4 MHz Temp./Humi. :20.3°C/60%
Test Mode :Tx Antenna Pol. :Horizontal
EUT Pol :E1 Plane Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
1804.80	Peak	47.81	-0.40	47.41	93.32	-45.91
2707.20	Peak	38.90	3.71	42.61	74.00	-31.39
2707.20	Average	27.84	3.71	31.55	54.00	-22.45

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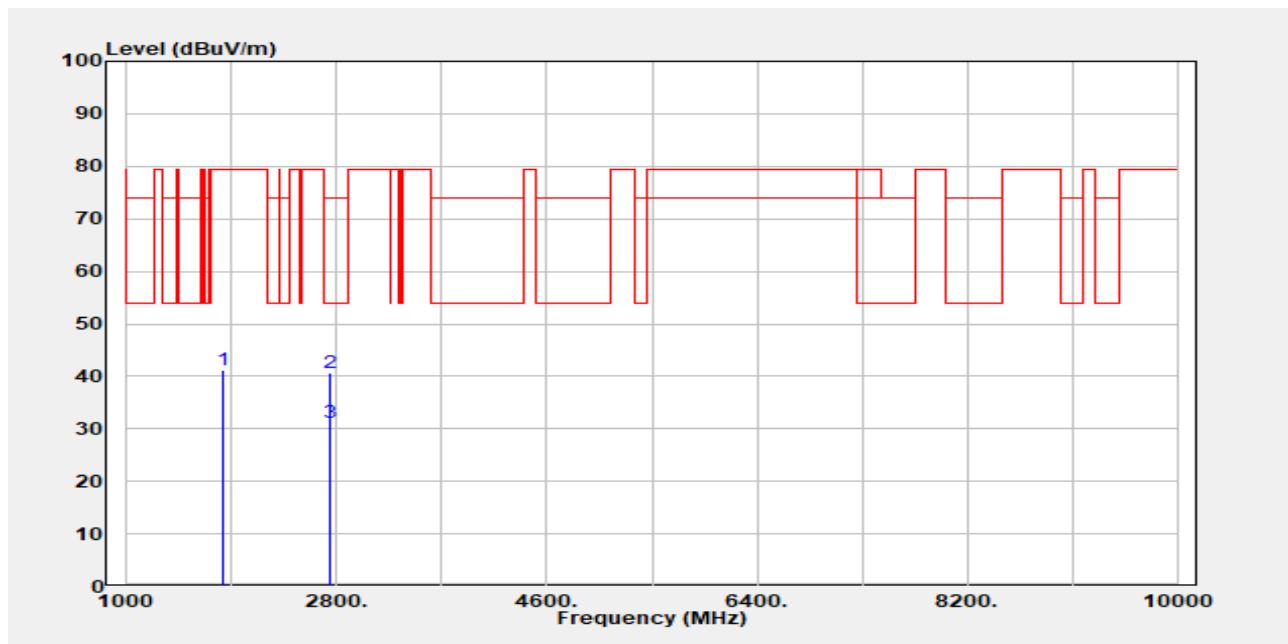
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Report Number :TERF2503000971E2 Test Site :SAC D
Operation Mode :FSK Test Date :2025-04-18
Test Frequency :915.2 MHz Temp./Humi. :20.3°C/60%
Test Mode :Tx Antenna Pol. :Vertical
EUT Pol :E1 Plane Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
1830.40	Peak	41.58	-0.27	41.31	94.04	-49.01
2745.60	Peak	36.73	3.85	40.58	74.00	-31.54
2745.60	Average	27.31	3.85	31.16	54.00	-22.51

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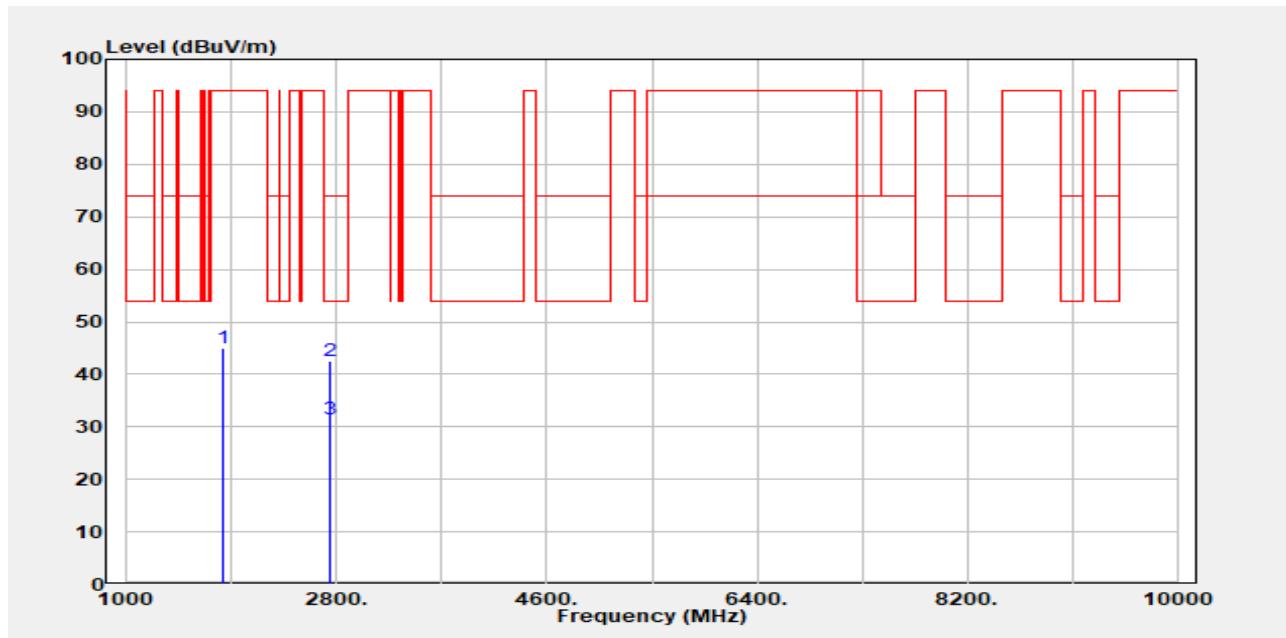
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Report Number :TERF2503000971E2 Test Site :SAC D
Operation Mode :FSK Test Date :2025-04-18
Test Frequency :915.2 MHz Temp./Humi. :20.3°C/60%
Test Mode :Tx Antenna Pol. :Horizontal
EUT Pol :E1 Plane Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
1830.40	Peak	45.30	-0.27	45.03	94.04	-49.01
2745.60	Peak	38.61	3.85	42.46	74.00	-31.54
2745.60	Average	27.64	3.85	31.49	54.00	-22.51

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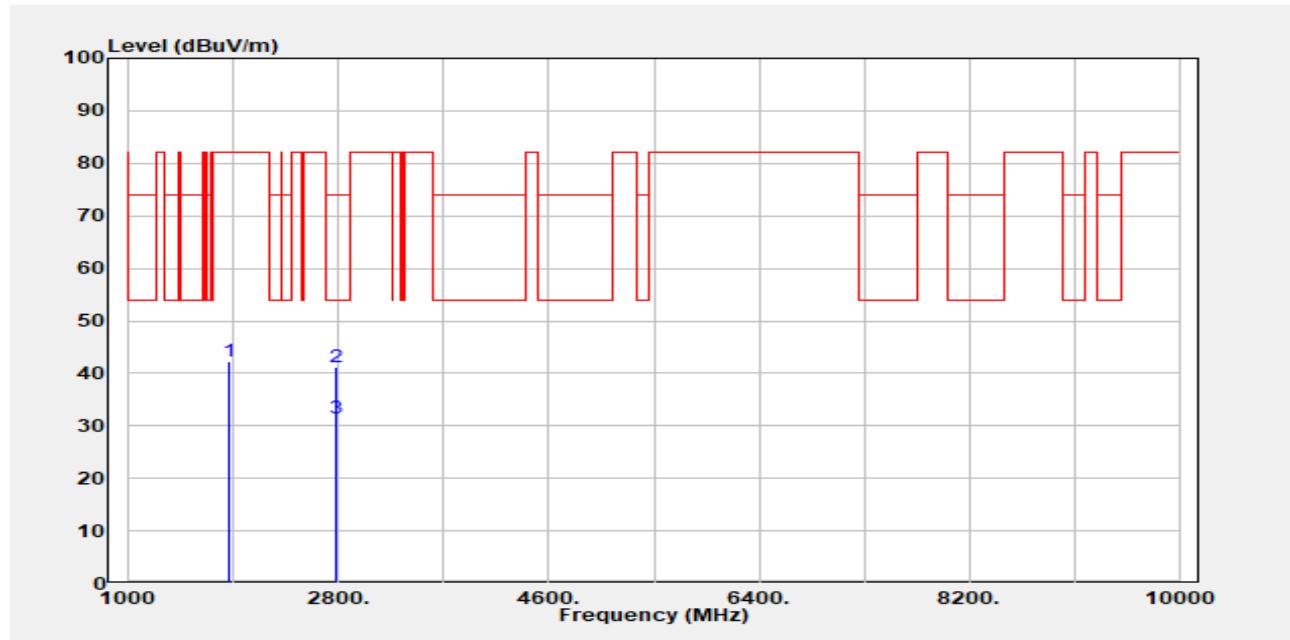
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Report Number :TERF2503000971E2
Operation Mode :FSK
Test Frequency :927.6 MHz
Test Mode :Tx
EUT Pol :E1 Plane

Test Site :SAC D
Test Date :2025-04-18
Temp./Humi. :20.3°C/60%
Antenna Pol. :Vertical
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
1855.20	Peak	42.15	0.02	42.17	82.19	-40.02
2782.80	Peak	37.02	4.23	41.25	74.00	-32.75
2782.80	Average	27.17	4.23	31.40	54.00	-22.60

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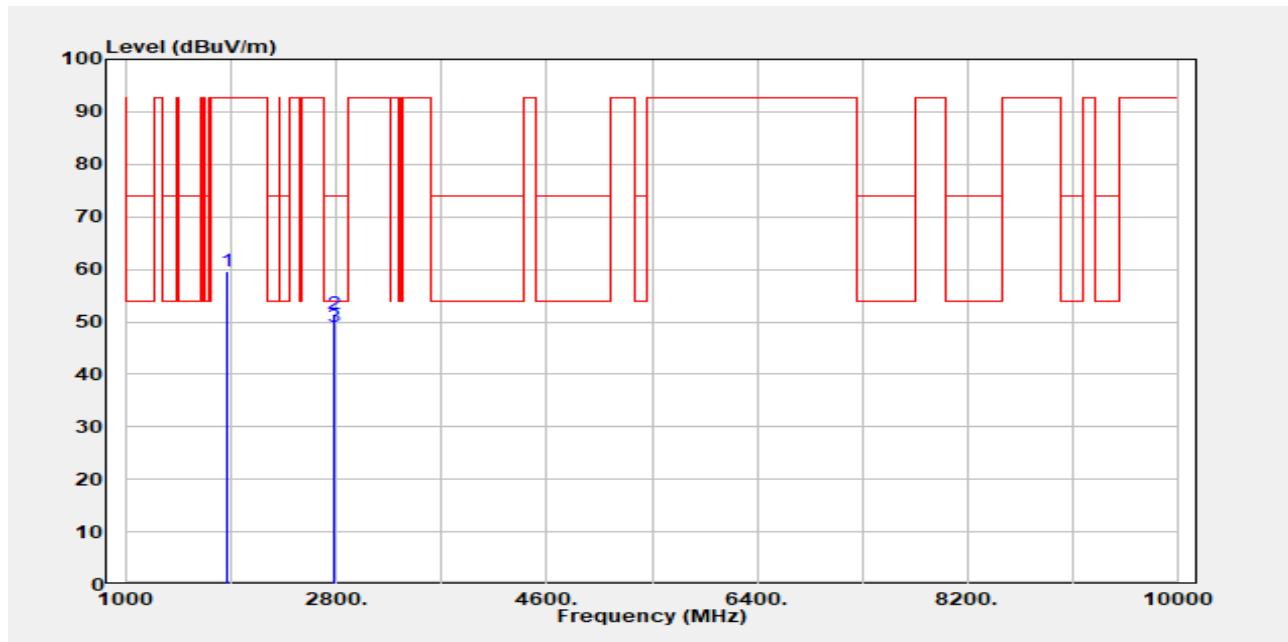
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Report Number :TERF2503000971E2 Test Site :SAC D
Operation Mode :FSK Test Date :2025-03-12
Test Frequency :927.6 MHz Temp./Humi. :20.3°C/60%
Test Mode :Tx Antenna Pol. :Horizontal
EUT Pol :E1 Plane Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
1855.20	Peak	59.58	0.02	59.60	92.60	-33.00
2782.80	Peak	47.39	4.23	51.62	74.00	-22.38
2782.80	Average	44.76	4.23	48.99	54.00	-5.01

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15 ANTENNA REQUIREMENT

15.1 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.

15.2 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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