

TEST REPORT

Applicant Name: JEM ACCESSORIES INC.
Address: 32 Brunswick Avenue, Edison, New Jersey, United States, 08817
Report Number: 2501S19432E-RF-00A
FCC ID: 2AHAS-36011324

Test Standard (s)

FCC PART 15.239

Sample Description

Product Type: BT FM LED Transmitter
Model No.: WIABLK36011324
Multiple Model(s) No.: N/A
Trade Mark: N/A
Date Received: 2025/04/21
Issue Date: 2025/09/23

Test Result:	Pass▲
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▲ In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

Bruce Lin

Bruce Lin
RF Engineer

Approved By:

Michelle Zeng

Michelle Zeng
RF Supervisor

Note: The information marked # is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included.

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Bay Area Compliance Laboratories Corp. (Shenzhen)

5F(B-West), 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, Futian Free Trade Zone, Shenzhen, China

Tel: +86-755-33320018 Fax: +86-755-33320008 www.baclcorp.com.cn

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	2501S19432E-RF-00A	Original Report	2025/09/23

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	BT FM LED Transmitter
Tested Model	WIABLK36011324
Multiple Model(s)	N/A
Frequency Range	88.1-107.9 MHz
Maximum E-field strength	57.82 dBuV/m@3m
Modulation Technique	FM
Voltage Range	DC 12V/24V from car charger
Sample serial number	31JM-1 (Assigned by BACL, Shenzhen)
Sample/EUT Status	Good condition
Adapter Information	N/A

Objective

This test report is in accordance with Part 2-Subpart J, and Part 15-Subparts A and C of the Federal Communication Commissions rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.209 and 15.239 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2020, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Each test item follows test standards and with no deviation.

Measurement Uncertainty

Parameter		Uncertainty
Occupied Channel Bandwidth		109.2kHz(k=2, 95% level of confidence)
RF Frequency		56.6Hz(k=2, 95% level of confidence)
AC Power Lines Conducted Emissions	9kHz-150kHz	3.63dB(k=2, 95% level of confidence)
	150kHz-30MHz	3.66dB(k=2, 95% level of confidence)
Radiated Emissions	0.009MHz~30MHz	3.60dB(k=2, 95% level of confidence)
	30MHz~200MHz (Horizontal)	5.32dB(k=2, 95% level of confidence)
	30MHz~200MHz (Vertical)	5.43dB(k=2, 95% level of confidence)
	200MHz~1000MHz (Horizontal)	5.77dB(k=2, 95% level of confidence)
	200MHz~1000MHz (Vertical)	5.73dB(k=2, 95% level of confidence)
	1GHz - 6GHz	5.34dB(k=2, 95% level of confidence)
	6GHz - 18GHz	5.40dB(k=2, 95% level of confidence)
	18GHz - 40GHz	5.64dB(k=2, 95% level of confidence)
Temperature		±1°C
Humidity		±1%
Supply voltages		±0.4%

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West) , 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 715558, the FCC Designation No. : CN5045.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured in a testing mode which provided by manufacturer. The operating frequency is 88.1-107.9MHz. The 88.1MHz, 98.1MHz and 107.9MHz were chosen for test.

A 2.5kHz tone input to the device via the RF Communication test set (Model: 8920B). The level of the tone is 16dB higher than that required to produce a 50% of the manufacturer's rated deviation. The level is 38dBuV

EUT Exercise Software

No exercise software was used.

Equipment Modifications

No modifications were made to the unit tested.

Support Equipment List and Details

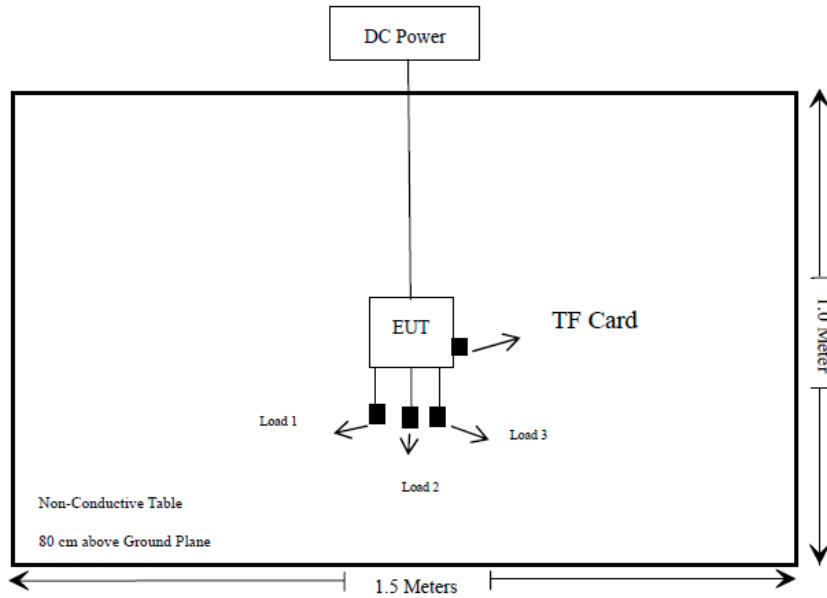
Manufacturer	Description	Model	Serial Number
instek	DC Power Supply	GPS-3030DD	EM832096
BACL	Load1	Unknown	Unknown
BACL	Load2	Unknown	Unknown
BACL	Load3	Unknown	Unknown
SANSUNG	TF Card	MBMJ32G	KPPLP65BA809
HP	RF Communication test set	8920B	US36141849
Unknown	Antenna	Unknown	Unknown

Support Cable Descriptions

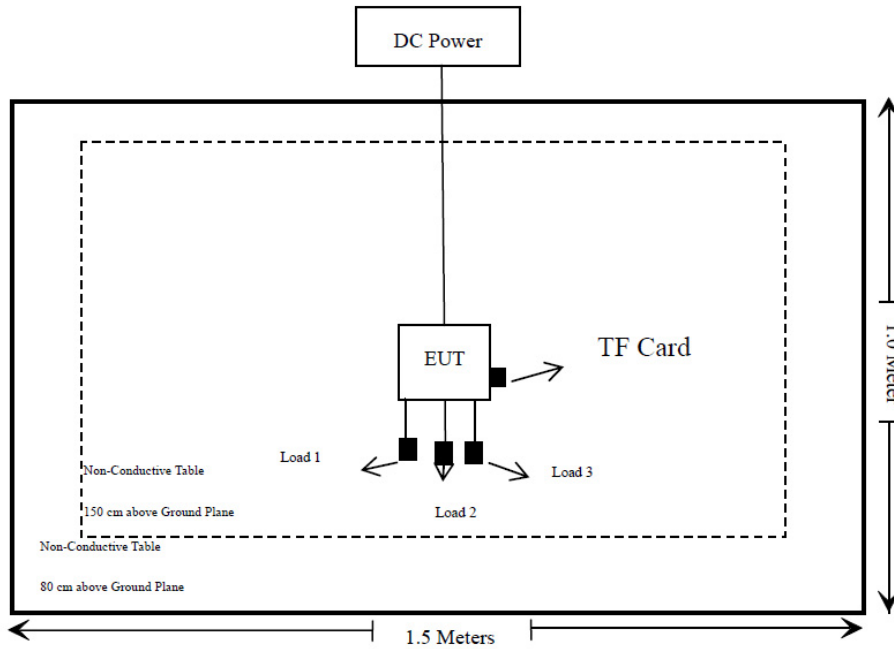
Cable Description	Length (m)	From/Port	To
Unshielded detachable USB cable	0.2	EUT	Load1
Unshielded detachable USB cable	0.2	EUT	Load2
Unshielded detachable USB cable	0.2	EUT	Load3
Unshielded detachable DC cable	2.0	EUT	DC Power

Block Diagram of Test Setup

For Radiated Emissions below 1GHz:



For Radiated Emissions above 1GHz:



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§2.1091	MPE-Based Exemption	Compliant
§15.203	Antenna Requirement	Compliant
§15.207(a)	Conducted Emissions	Not Applicable
§15.205, §15.209, §15.239(b)	Radiated Spurious Emissions	Compliant
§15.239 (a)	20dB Bandwidth Emission	Compliant

Not Applicable: This device is used in-vehicle environment

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emissions Test					
Rohde & Schwarz	EMI Test Receiver	ESR3	102455	2024/12/04	2025/12/03
Sonoma instrument	Pre-amplifier	310 N	186238	2025/04/29	2026/04/28
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2023/07/20	2026/07/19
Unknown	Cable	Chamber A Cable 1	N/A	2025/04/29	2026/04/28
Unknown	Cable	XH500C	J-10M-A	2025/04/29	2026/04/28
BACL	Active Loop Antenna	1313-1A	4031911	2024/05/14	2027/05/13
Unknown	Cable	2Y194	0735	2024/12/04	2025/12/03
Unknown	Cable	PNG214	1354	2024/12/04	2025/12/03
Rohde & Schwarz	Spectrum Analyzer	FSV40	101605	2025/03/26	2026/03/25
A.H.System	Preamplifier	PAM-0118P	489	2024/11/15	2025/11/14
Schwarzbeck	Horn Antenna	BBHA9120D (1201)	1143	2023/07/26	2026/07/25
Unknown	RF Cable	KMSE	735	2024/12/06	2025/12/05
Unknown	RF Cable	UFA147	219661	2024/12/06	2025/12/05
Unknown	RF Cable	XH750A-N	J-10M	2024/12/06	2025/12/05
JD	Filter Switch Unit	DT7220FSU	DS79906	2024/09/09	2025/09/08
JD	Multiplex Switch Test Control Set	DT7220SCU	DS79903	2024/09/09	2025/09/08
Audix	EMI Test software	E3	191218(V9)	NCR	NCR
20 dB Bandwidth Emission					
Rohde & Schwarz	Spectrum Analyzer	FSV40-N	102259	2024/12/04	2025/12/03
HP	RF Communication test set	8920B	US36141849	2024/12/04	2025/12/03
WEINSCHL	3dB Attenuator	Unknown	F-03-EM220	2025/06/26	2026/06/25

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC 1.1307 (B) & §2.1091- MPE-BASED EXEMPTION

Applicable Standard

According to subpart 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

According to KDB 447498 D04 v01 Interim General RF Exposure Guidance

MPE-Based Exemption:

General frequency and separation-distance dependent MPE-based effective radiated power (ERP) thresholds are in Table B.1 [Table 1 of § 1.1307(b)(3)(i)(C)] to support an exemption from further evaluation from 300 kHz through 100 GHz.

Table 1 to § 1.1307(b)(3)(i)(C) - Single RF Sources Subject to Routine Environmental Evaluation

RF Source frequency (MHz)	Threshold ERP (watts)
0.3-1.34	$1,920 R^2$.
1.34-30	$3,450 R^2/f^2$.
30-300	$3.83 R^2$.
300-1,500	$0.0128 R^2f$.
1,500-100,000	$19.2R^2$.

R is the minimum separation distance in meters
f = frequency in MHz

R is the minimum separation distance in meters
f = frequency in MHz

For multiple RF sources: Multiple RF sources are exempt if:

in the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation:

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure Limit_k} \leq 1$$

Result

Mode	Frequency (MHz)	Tune up conducted power [#] (dBm)	Antenna Gain [#]		ERP		Evaluation Distance (m)	ERP Limit (W)
			(dBi)	(dBd)	(dBm)	(W)		
BT	2402-2480	0.50	-3	-5.15	-4.65	0.00034277	0.2	0.768

Note: The tune up conducted power[#] and antenna gain[#] were declared and provided by the applicant.

Mode	Frequency (MHz)	Maximum E-Field (dBuV/m@3m)	Maximum EIRP (dBm)	Tune up EIRP (dBm)	ERP		Evaluation Distance (m)	ERP Limit (W)
					(dBm)	(W)		
FM	88.1-107.9	57.82	-37.38	-37.00	-39.15	0.00000012	0.2	0.153

Note:
The Tune up EIRP [#] was declared and provided by the applicant.
EIRP = E-Field – 95.2 @3m, ERP=EIRP-2.15

Simultaneous transmitting consideration (worst case):

The FM and BLE can transmit simultaneously,

The ratio= $ERP_{BT}/limit + ERP_{FM}/limit = 0.00034277/0.768 + 0.00000012/0.153 = 0.000447 < 1.0$

To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliant

FCC§15.203 - ANTENNA REQUIREMENT

Applicable Standard

According to FCC § 15.203, 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.

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.

Antenna Connector Construction

The EUT has an internal antenna which was permanently attached fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliant.

FCC§15.209 & §15.239(b) - RADIATED EMISSIONS

Applicable Standard

FCC§15.209&FCC§15.239 (b)

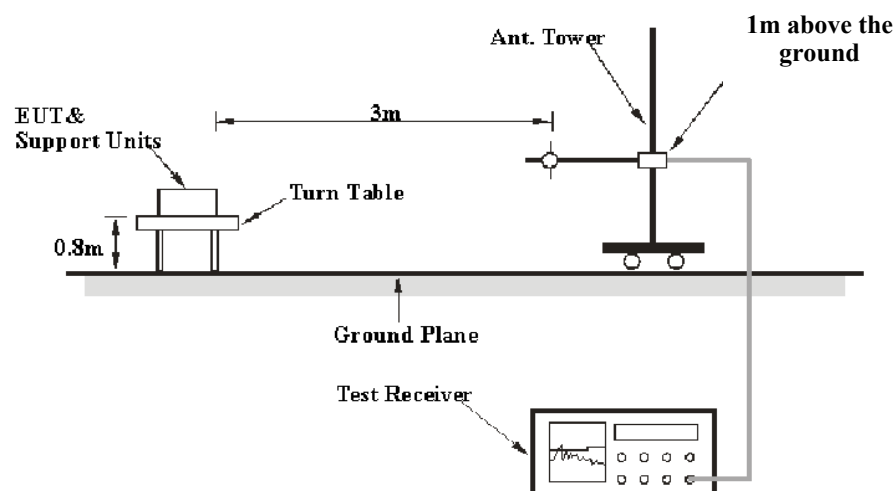
Limit

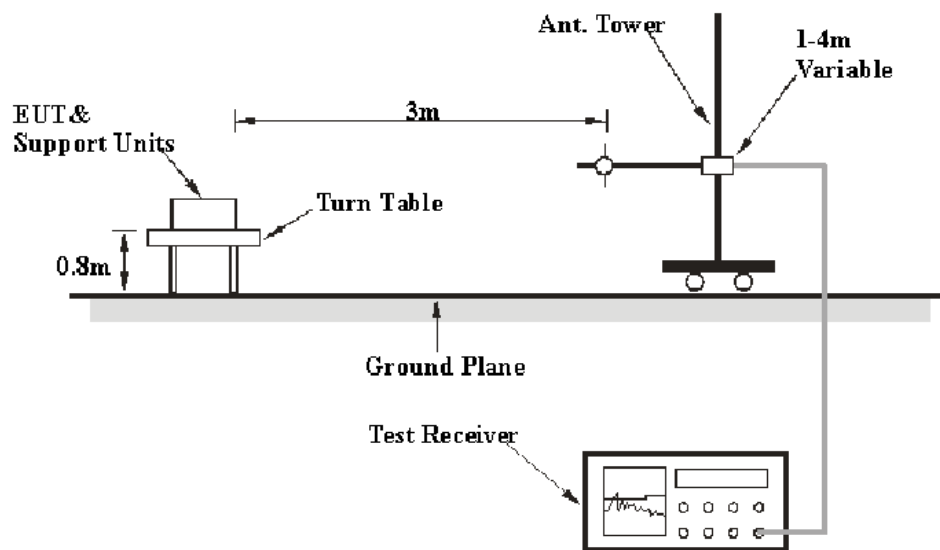
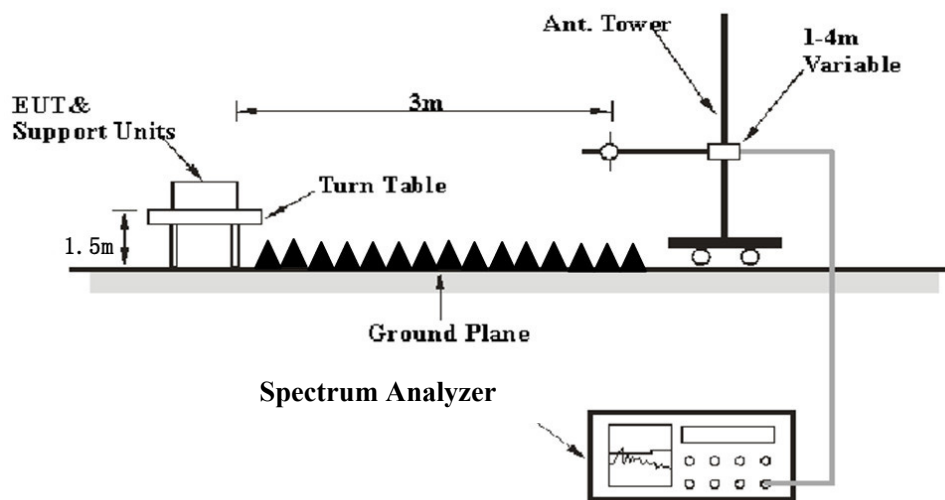
The field strength of any emissions within the authorized bandwidth shall not exceed $250\mu\text{V/m}$ measured at 3m with an average meter.

The field strength of any emissions outside the 200 kHz authorized bandwidth or outside the band 88-108MHz shall not exceed the general field strength limits specified in §15.239 (b).

EUT Setup

9 kHz-30MHz:



30MHz-1GHz:**Above 1GHz:**

The radiated emission and out of band emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2020. The specification used was the FCC 15.209/15.205 and FCC 15.239 limits.

EMI Test Receiver & Spectrum Analyzer Setup

The EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Measurement	Detector
9 kHz – 150 kHz	/	/	200 Hz	QP	QP
	300 Hz	1 kHz	/	PK	PK
150 kHz – 30 MHz	/	/	9 kHz	QP	QP
	10 kHz	30 kHz	/	PK	PK
30 MHz – 1000 MHz	/	/	120 kHz	QP	QP
	100 kHz	300 kHz	/	PK	PK
Above 1 GHz	1MHz	3 MHz	/	PK	PK
	1MHz	10 Hz	/	Average	PK

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

The EUT is set 3 meter away from the testing antenna, which is varied from 1-4 meter, and the EUT is placed on a turntable, which is 0.8 meter above ground plane for below 1GHz or 1.5 meter for above 1GHz, the table shall be rotated for 360 degrees to find out the highest emission. The receiving antenna should be changed the polarization both of horizontal and vertical.

All final data was recorded in Quasi-peak detection mode except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz, average detection modes for frequency bands 9–90 kHz and 110–490 kHz, peak and average detection modes for frequencies above 1 GHz.

For 9 kHz-30MHz, the report shall list the six emissions with the smallest margin relative to the limit, for each of the three antenna orientations (parallel, perpendicular, and ground-parallel) unless the margin is greater than 20 dB.

All emissions under the average limit and under the noise floor have not recorded in the report.

Factor & Over Limit/Margin Calculation

The Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain. The basic equation is as follows:

$$\text{Factor} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Over Limit/Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit/margin of -7dB means the emission is 7dB below the limit. The equation for calculation is as follows:

$$\begin{aligned}\text{Over Limit} &= \text{Level} - \text{Limit}; \text{Margin} = \text{Limit} - \text{Corrected Amplitude} \\ \text{Level} / \text{Corrected Amplitude} &= \text{Read Level} + \text{Factor}\end{aligned}$$

Test Data

Environmental Conditions

Temperature:	22.8~25.5 °C
Relative Humidity:	51~61 %
ATM Pressure:	100.4~101.2 kPa

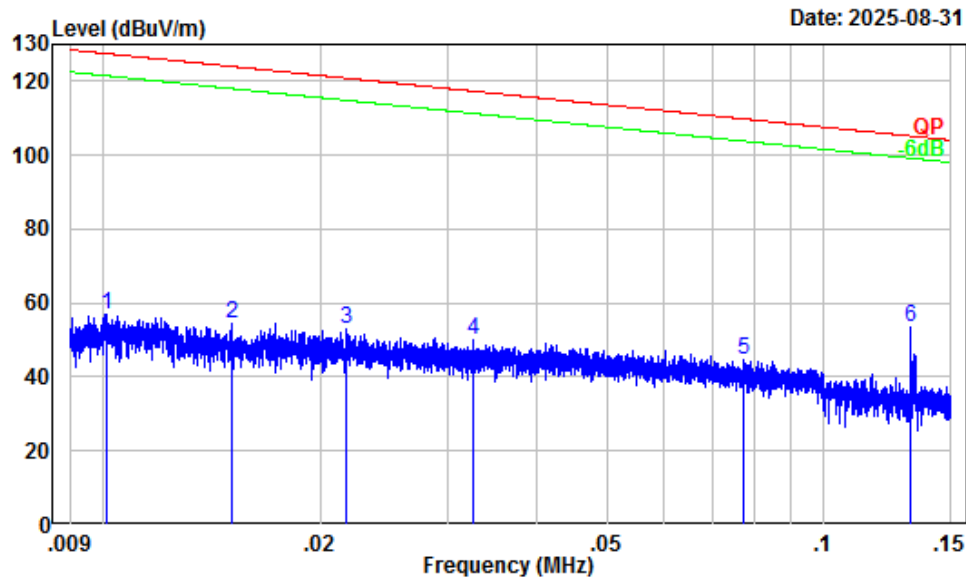
The testing was performed by Nico Wu on 2025-08-31 for below 1GHz and Wing K Ji on 2025-08-19 for above 1GHz.

EUT operation mode: Transmitting

Note: Pre-scan in the X, Y and Z axes of orientation, the worst case X-axis of orientation was recorded

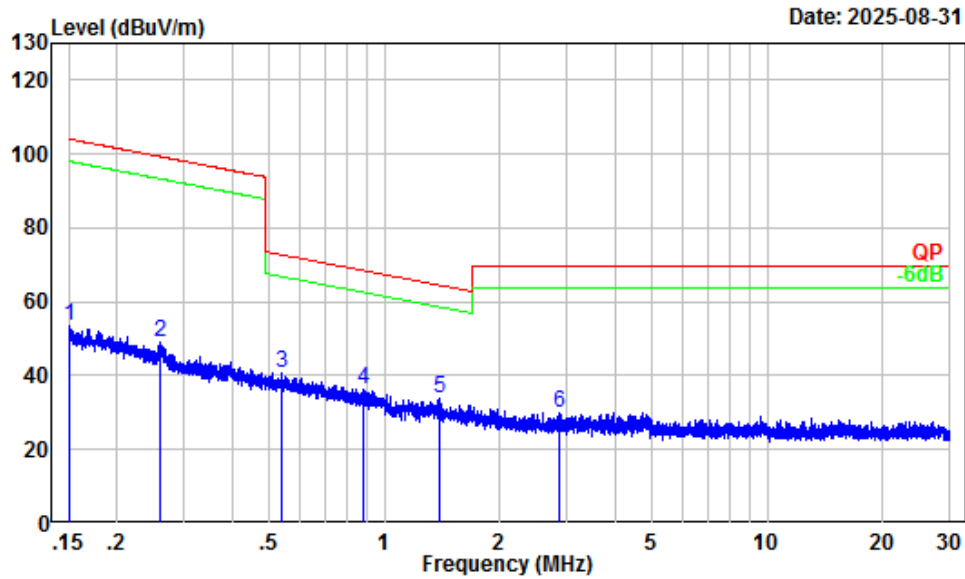
9 kHz-30MHz: worst case at low channel

Parallel (worst case)



Site : Chamber A
Condition : 3m
Project Number : 2501S19432E-RF
Test Mode : Transmitting
Detector: Peak RBW/VBW: 0.3/1kHz
Tester : Nico Wu

	Freq	Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.010	32.28	24.75	57.03	127.52	-70.49	Peak
2	0.015	31.33	23.35	54.68	124.02	-69.34	Peak
3	0.022	30.06	23.00	53.06	120.85	-67.79	Peak
4	0.033	28.22	21.60	49.82	117.33	-67.51	Peak
5	0.077	23.68	21.13	44.81	109.86	-65.05	Peak
6	0.132	20.12	33.41	53.53	105.21	-51.68	Peak

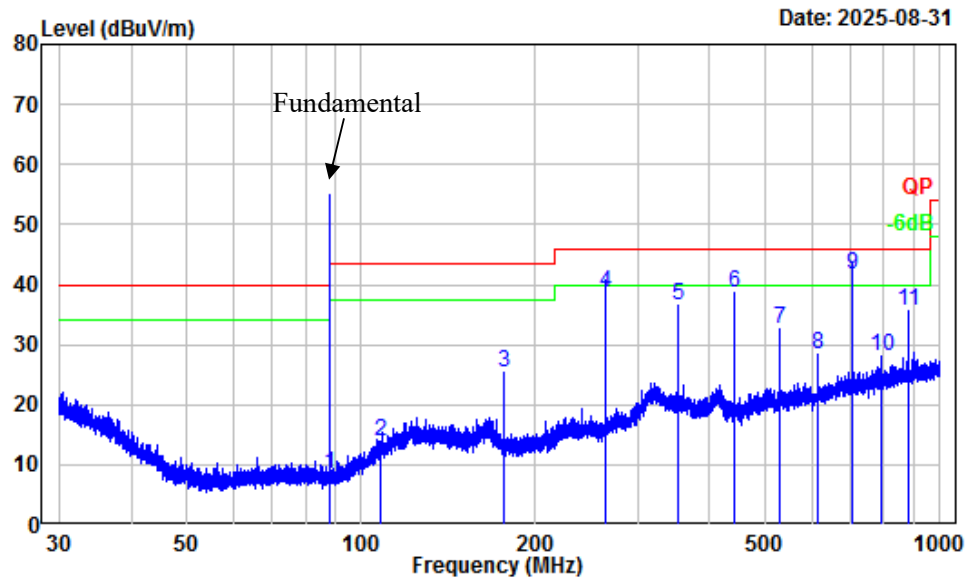


Site : Chamber A
 Condition : 3m
 Project Number : 2501S19432E-RF
 Test Mode : Transmitting
 Detector: Peak RBW/VBW: 10/30kHz
 Tester : Nico Wu

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.151	18.99	34.49	53.48	104.02	-50.54	Peak
2	0.260	12.53	36.54	49.07	99.29	-50.22	Peak
3	0.540	5.91	34.75	40.66	72.94	-32.28	Peak
4	0.878	2.12	34.00	36.12	68.63	-32.51	Peak
5	1.399	0.08	33.59	33.67	64.50	-30.83	Peak
6	2.864	-2.07	31.91	29.84	69.54	-39.70	Peak

30MHz-1GHz: worst case at low channel

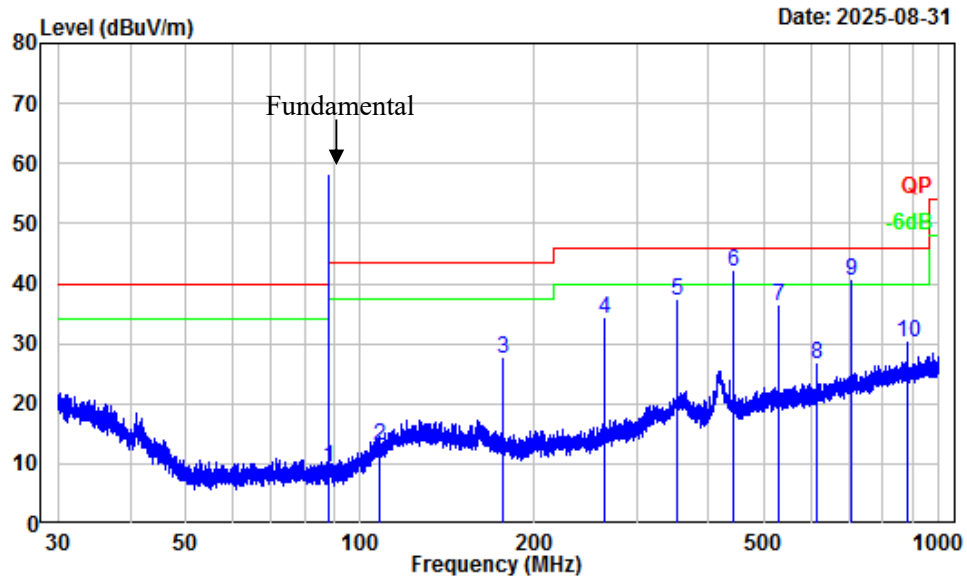
Horizontal



Site : Chamber A
Condition : 3m Horizontal
Project Number : 2501S19432E-RF
Test Mode : Transmitting
Detector: Peak RBW/VBW: 100/300kHz
Tester : Nico Wu

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	88.00	-18.07	26.39	8.32	40.00	-31.68 Peak
2	108.00	-13.61	27.43	13.82	43.50	-29.68 Peak
3	176.19	-13.46	38.78	25.32	43.50	-18.18 Peak
4	264.28	-12.33	51.09	38.76	46.00	-7.24 QP
5	352.48	-10.10	46.56	36.46	46.00	-9.54 Peak
6	440.58	-7.67	46.22	38.55	46.00	-7.45 Peak
7	528.71	-5.80	38.40	32.60	46.00	-13.40 Peak
8	616.91	-4.93	33.19	28.26	46.00	-17.74 Peak
9	704.84	-3.42	45.20	41.78	46.00	-4.22 QP
10	793.05	-2.25	30.28	28.03	46.00	-17.97 Peak
11	881.02	-1.50	37.00	35.50	46.00	-10.50 Peak

Vertical



Site : Chamber A
Condition : 3m Vertical
Project Number : 2501S19432E-RF
Test Mode : Transmitting
Detector: Peak RBW/VBW: 100/300kHz
Tester : Nico Wu

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	88.00	-18.07	27.45	9.38	40.00	-30.62	Peak
2	108.00	-13.61	26.73	13.12	43.50	-30.38	Peak
3	176.19	-13.46	40.82	27.36	43.50	-16.14	Peak
4	264.28	-12.33	46.41	34.08	46.00	-11.92	Peak
5	352.48	-10.10	47.35	37.25	46.00	-8.75	Peak
6	440.58	-7.67	49.52	41.85	46.00	-4.15	QP
7	528.71	-5.80	41.88	36.08	46.00	-9.92	Peak
8	616.91	-4.93	31.45	26.52	46.00	-19.48	Peak
9	704.84	-3.42	43.91	40.49	46.00	-5.51	QP
10	881.02	-1.50	31.64	30.14	46.00	-15.86	Peak

Fundamental E-Field strength:

Frequency (MHz)	Reading (dBμV)	PK/AV	Polar (H/V)	Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Low Channel							
88.1	70.21	PK	H	18.07	52.14	68	15.86
88.1	60.74	AV	H	18.07	42.67	48	5.33
88.1	75.89	PK	V	18.07	57.82	68	10.18
88.1	64.41	AV	V	18.07	46.34	48	1.66
Middle Channel							
98.1	63.41	PK	H	16.5	46.91	68	21.09
98.1	52.84	AV	H	16.5	36.34	48	11.66
98.1	72.93	PK	V	16.5	56.43	68	11.57
98.1	61.87	AV	V	16.5	45.37	48	2.63
High Channel							
107.9	59.89	PK	H	13.63	46.26	68	21.74
107.9	50.47	AV	H	13.63	36.84	48	11.16
107.9	68.84	PK	V	13.63	55.21	68	12.79
107.9	58.58	AV	V	13.63	44.95	48	3.05

Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor

Absolute Level (Corrected Amplitude) = Reading- Factor

Margin = Limit- Absolute Level

Above 1GHz:

Frequency (MHz)	Reading (dBμV)	PK/AV	Polar (H/V)	Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
High Channel							
1079.00	54.55	PK	H	-15.29	39.26	74	-34.74
1079.00	51.03	PK	V	-15.29	35.74	74	-38.26

Note:

Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor

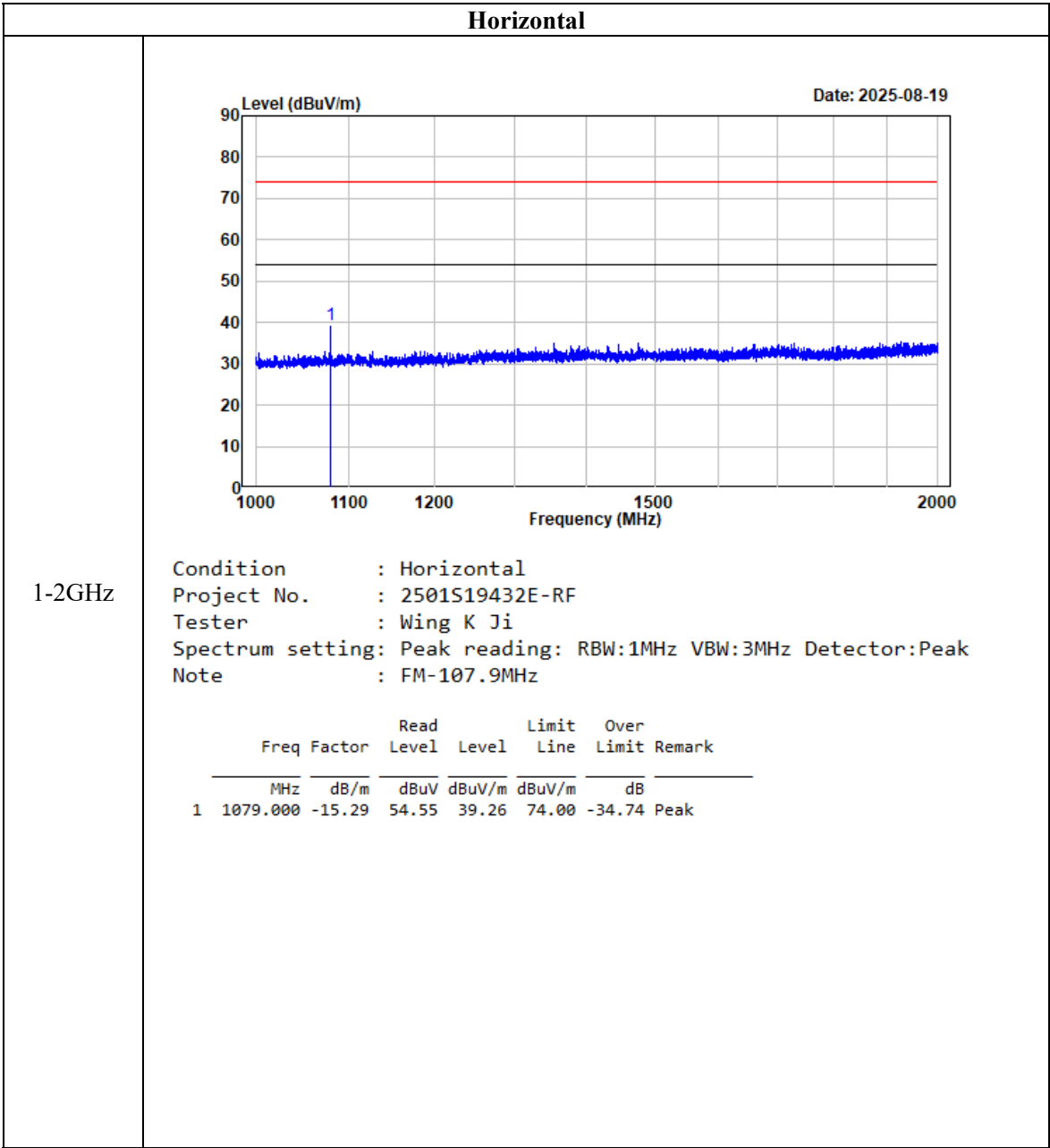
Absolute Level (Corrected Amplitude) = Factor + Reading

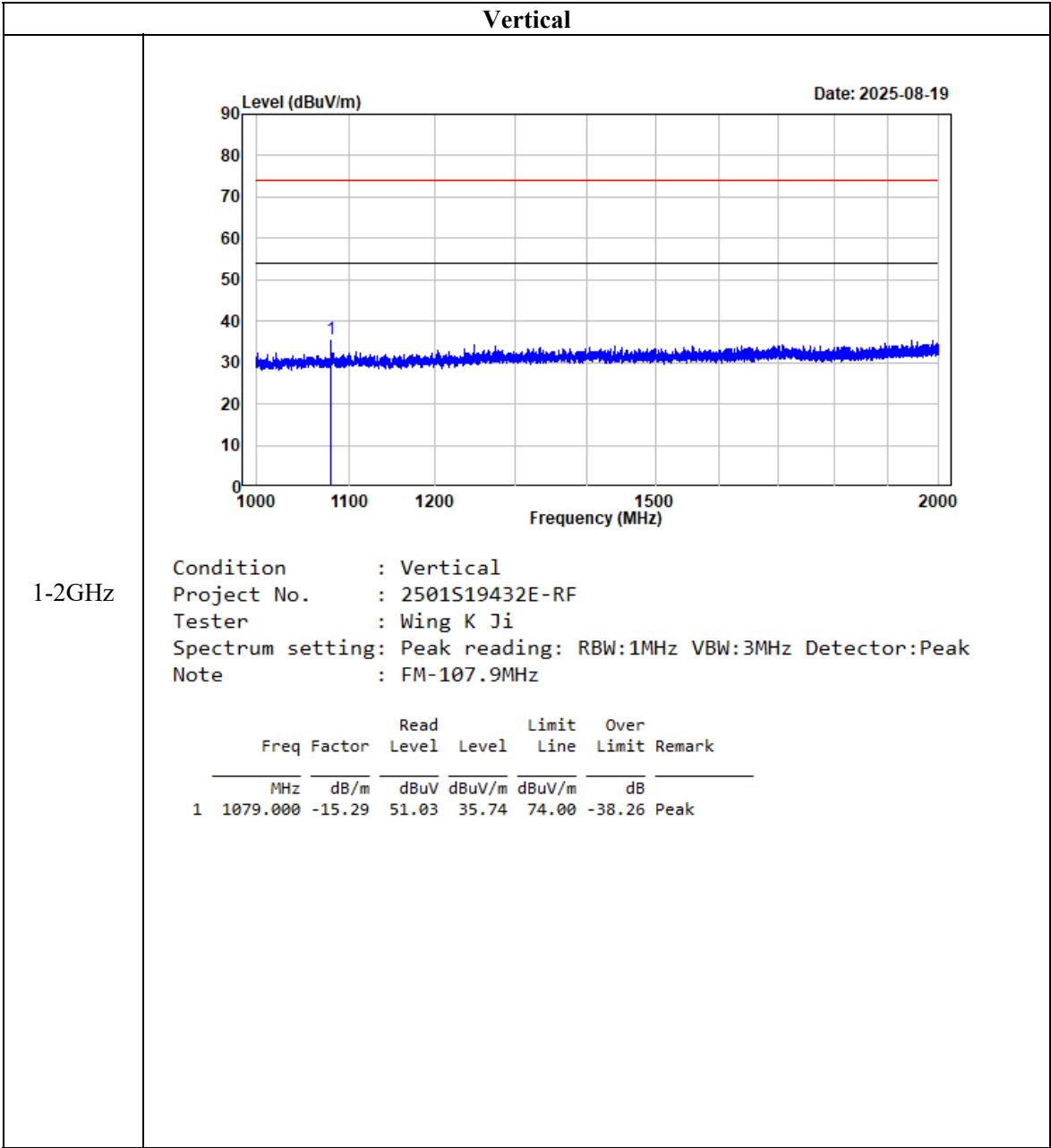
Margin = Absolute Level - Limit

The other spurious emission which is 20dB to the limit or in noise floor level was not recorded.

The peak value was less than the average limit, so just peak value was recorded

Listed with the worst harmonic margin test plot:





FCC§15.239(a) - 20dB BANDWIDTH

Applicable Standard

FCC §15.239(a)

Limit

According to §15.239(a) Emissions from the intentional radiator shall be confined within a band 200 kHz wide centered on the operating frequency. The 200 kHz band shall lie wholly within the frequency range of 88-108MHz.

Test Procedure

Test Method: ANSI C63.10-2020 Clause 6.9.2

A dBc bandwidth is measured as the width of the spectral envelope of the modulated signal, at an amplitude level reduced from a reference value by a specified ratio (or in decibels, a specified number of dB down from the reference value). Typical ratios, expressed in dB, are -6 dB, -20 dB, and -26 dB, corresponding to 6 dB BW, 20 dB BW, and 26 dB BW, respectively. In this subclause, the ratio is designated by “-xx dB.” The reference value is either the level of the unmodulated carrier or the highest level of the spectral envelope of the modulated signal, as stated by the applicable requirement. Some requirements might specify a specific maximum or minimum value for the “-xx dB” bandwidth; other requirements might specify that the “-xx dB” bandwidth be entirely contained within the authorized or designated frequency band.⁵¹

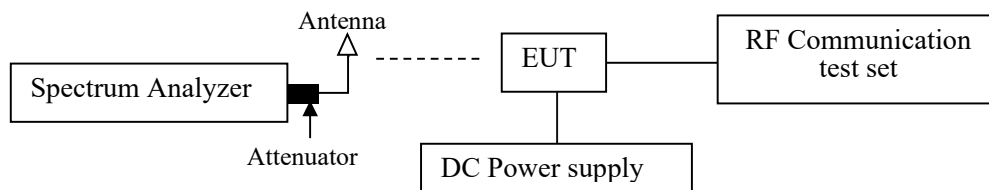
- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be at least three times RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (OBW/RBW)]$ below the reference level. Specific guidance is given in 4.1.6.2.
- d) Steps a) through c) might require iteration to adjust within the specified tolerances.
- e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target “-xx dB down” requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value.
- f) Set detection mode to peak and trace mode to max-hold.
- g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).

h) Determine the “-xx dB down amplitude” using [(reference value) - xx]. Alternatively, this calculation may be made by using the marker-delta function of the instrument.

i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j).

j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-xx dB down amplitude” determined in step h). If a marker is below this “-xx dB down amplitude” value, then it shall be as close as possible to this value. The dBc bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the “-xx dB down amplitude” determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth.

k) The dBc bandwidth shall be reported by providing spectral plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).



Test Data

Environmental Conditions

Temperature:	25.5 °C
Relative Humidity:	51 %
ATM Pressure:	100.4 kPa

The testing was performed by Cheeb Huang on 2025-09-23.

EUT operation mode: Transmitting

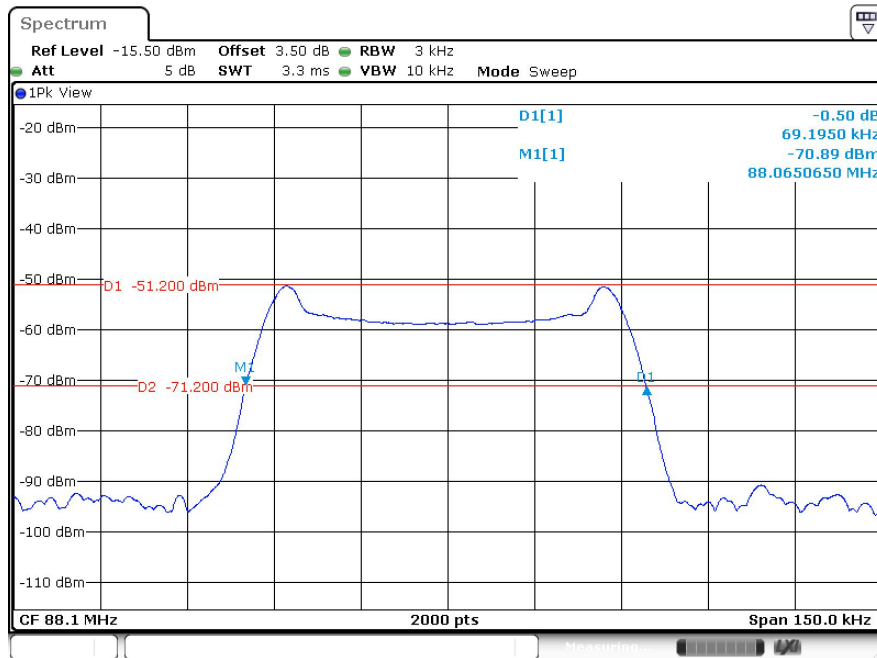
Please refer to the following table and plots.

Channel	Frequency (MHz)	20dB Bandwidth (kHz)	Limit(kHz)
Low	88.1	69.195	200
Middle	98.1	75.413	
High	107.9	83.13	

Note: 200 kHz BW is within 88-108MHz

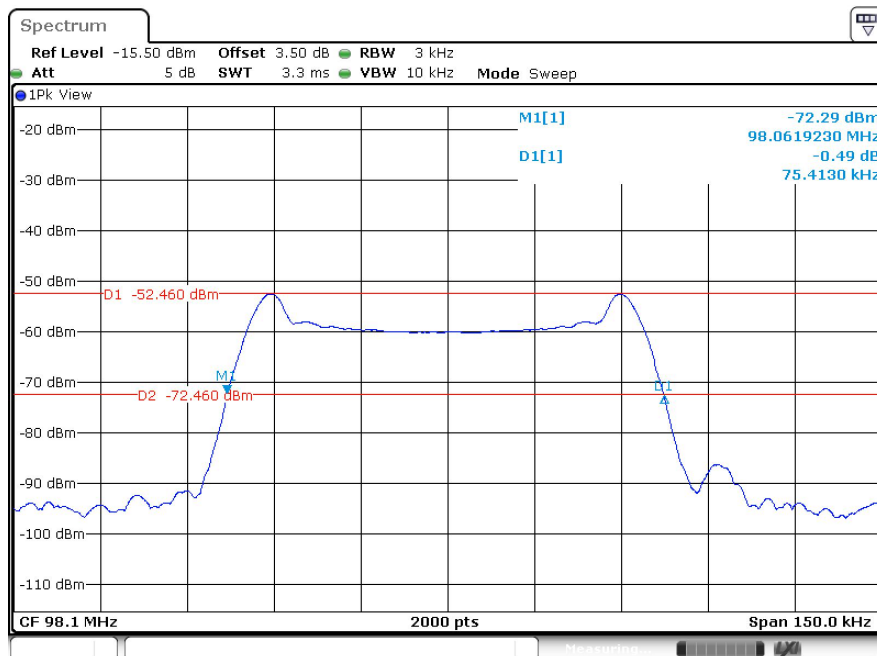
20dB Bandwidth

Low channel



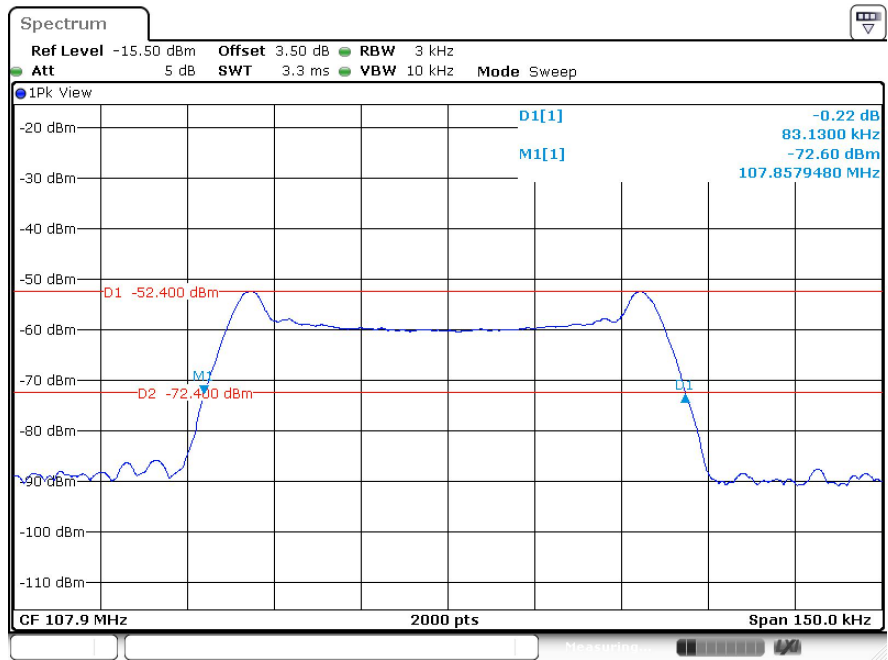
ProjectNo.:2501S19432E-RF Tester:Cheeb Huang
Date: 23.SEP.2025 17:20:13

Middle Channel



ProjectNo.:2501S19432E-RF Tester:Cheeb Huang
Date: 23.SEP.2025 17:16:28

High Channel



ProjectNo.:2501S19432E-RF Tester:Cheeb Huang
Date: 23.SEP.2025 17:17:59

EUT PHOTOGRAPHS

Please refer to the attachment 2501S19432E-RF External photo and 2501S19432E-RF Internal photo.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2501S19432E-RFA Test Setup photo.

******* END OF REPORT *******