

TEST REPORT

Applicant Name: FCC: Porta Phone Company Inc
IC: PORTA PHONE CO., INC.
Address: FCC: 145 Dean Knauss Drive Narragansett, Rhode Island
02882 United States
IC: 145 Dean Knauss Drive Narragansett, RI 02882, United States of America
Report Number: 2601U67569E-RF
FCC ID: B4HPCTPR
IC: 3064A-PCTPR

Test Standard (s)

FCC PART 15.247

RSS-GEN ISSUE 5, FEBRUARY 2021 AMENDMENT 2; RSS-247 ISSUE 4, July 24, 2025

Sample Description

Product Type: Wireless Text Message Receiver
Model No.: PC-TPR
Multiple Model(s) No.: N/A
Trade Mark: PlayCaller Text Pro Receiver
Date Received: 2026/07/01
Issue Date: 2026/08/17

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

Prepared and Checked By:

Wing K Ji

Wing K Ji
RF Engineer

Approved By:

Nancy Wang

Nancy Wang
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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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	2601U67569E-RF	Original Report	2026/08/17

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

HVIN	PC TPR
FVIN	PC TPR
Frequency Range	905-925MHz
Maximum Conducted Peak Output Power	17.77dBm
Modulation Technique	GFSK
Antenna Specification [#]	1.61dBi (provided by the applicant)
Voltage Range	DC 3.7V from battery or 5V from charger/USB port
Sample serial number	3P5J-3 for Radiated Emissions Test 3P5J-4 for RF Conducted Test (Assigned by BACL, Shenzhen)
Sample/EUT Status	Good condition
Charger Adapter	Model: YNQX30C050500UL Input: 100-240V~50/60Hz, 1A Output: 5.0V=5.0A, 25.0W

Objective

This report is in accordance with FCC Part 2-Subpart J, Part 15-Subpart A and C, and section 15.203, 15.205, 15.209, 15.247 rules RSS-GEN Issue 5, February 2021 Amendment 2 and RSS-247 Issue 4, July 24, 2025[▼] of the Innovation, Science and Economic Development Canada rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2020+Cor.1-2023+C63.10a-2024 + Errata to C63.10a-2024[▼], RSS-Gen and RSS-247.

And KDB 558074 D01 15.247 Meas Guidance v05r02.

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		52.29kHz(k=2, 95% level of confidence)
RF Frequency		81.235Hz(k=2, 95% level of confidence)
RF output power, conducted		1.57dB(k=2, 95% level of confidence)
Unwanted Emission, conducted		2.48dB(k=2, 95% level of confidence)
AC Power Lines Conducted Emissions	9kHz~150 kHz	3.46dB(k=2, 95% level of confidence)
	150 kHz ~30MHz	3.72dB(k=2, 95% level of confidence)
Radiated Emissions	0.009MHz~30MHz	3.66dB(k=2, 95% level of confidence)
	30MHz~100MHz (Horizontal)	5.10dB(k=2, 95% level of confidence)
	30MHz~1000MHz (Vertical)	6.28dB(k=2, 95% level of confidence)
	1GHz - 6GHz	6.18dB(k=2, 95% level of confidence)
	6GHz - 18GHz	6.62dB(k=2, 95% level of confidence)
Temperature		±0.4°C
Humidity		±2%
Supply voltages		DC±0.4%;AC±1%

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, test firm registration No.: 715558, the FCC Designation No. : CN5045.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0023.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in engineering mode.

Channel List[#]

Channel	Freq.(MHz)	Channel	Freq.(MHz)	Channel	Freq.(MHz)	Channel	Freq.(MHz)
0	905.00	11	910.50	22	916.00	33	921.50
1	905.50	12	911.00	23	916.50	34	922.00
2	906.00	13	911.50	24	917.00	35	922.50
3	906.50	14	912.00	25	917.50	36	923.00
4	907.00	15	912.50	26	918.00	37	923.50
5	907.50	16	913.00	27	918.50	38	924.00
6	908.00	17	913.50	28	919.00	39	924.50
7	908.50	18	914.00	29	919.50	40	925.00
8	909.00	19	914.50	30	920.00	/	/
9	909.50	20	915.00	31	920.50	/	/
10	910.00	21	915.50	32	921.00	/	/

EUT was test with channel 0/20/40.

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

The system was configured for testing in Engineering Mode and the power level is Default[#], which was provided by the manufacturer.

Support Equipment List and Details

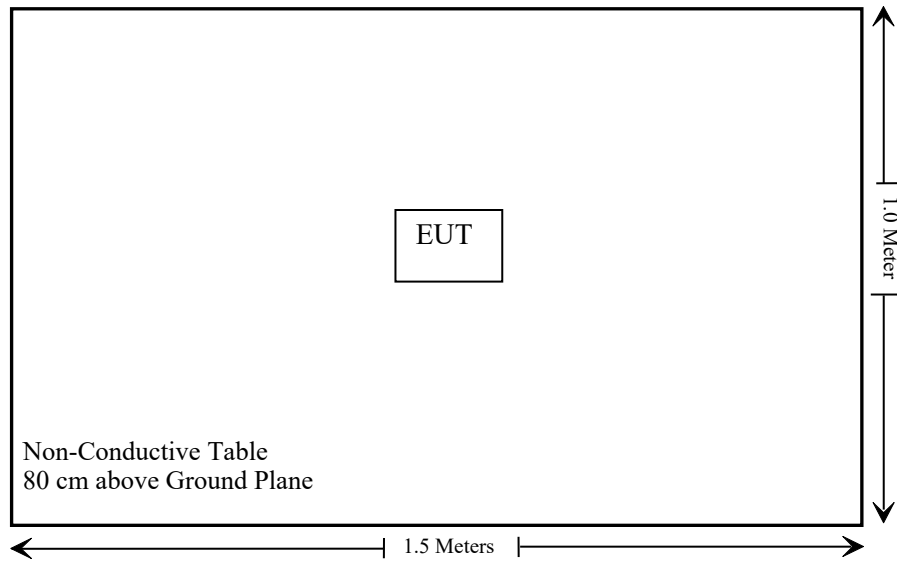
Manufacturer	Description	Model	Serial Number
/	/	/	/

External I/O Cable

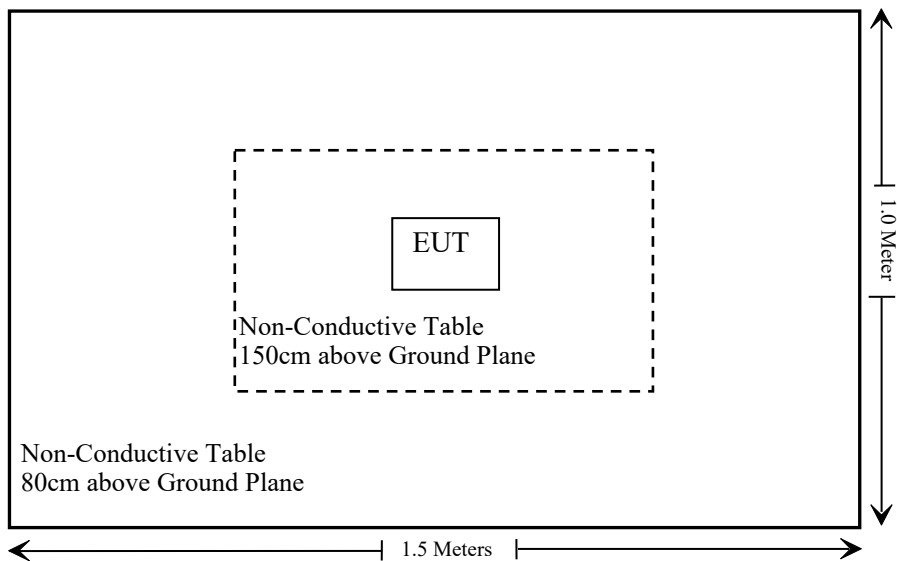
Cable Description	Length (m)	From Port	To
/	/	/	/

Block Diagram of Test Setup

For Spurious Emissions below 1GHz:



For Spurious Emissions above 1GHz:



SUMMARY OF TEST RESULTS

Test Rules		Description of Test	Result
FCC §1.1307, §2.1093	RSS-102	RF EXPOSURE	Compliant
FCC §15.203	RSS-Gen §6.8	Antenna Requirement	Compliant
FCC §15.207(a)	RSS-Gen §8.8	AC Line Conducted Emissions	Not applicable
FCC §15.205, §15.209, §15.247(d)	RSS-GEN §8.10, RSS-247 §6.6	Spurious Emissions	Compliant
FCC §15.247 (a)(2)	RSS- Gen§6.7, RSS-247 §6.3.1(a)	99% Occupied Bandwidth & 6 dB Emission Bandwidth	Compliant
FCC §15.247(b)(3)	RSS-247 §6.3.2	Maximum Conducted Output Power	Compliant
FCC §15.247(e)	RSS-247 §6.3.1(b)	Power Spectral Density	Compliant
FCC §15.247(d)	RSS-247 §6.6	100 kHz Bandwidth of Frequency Band Edge	Compliant
FCC §15.247(d)	RSS-247 §6.6	Conducted Spurious Emission	Compliant
C63.10 §11.6	C63.10 §11.6	Duty Cycle	/

Not Applicable: the device was powered by battery when operating

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emission Test_ Below 1GHz					
Rohde & Schwarz	EMI Test Receiver	ESR3	102455	2025/09/01	2026/08/31
Sonoma instrument	Pre-amplifier	310 N	186238	2025/09/08	2026/09/07
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2026/06/26	2029/06/25
Unknown	Chamber A Cable	Cable A1	Cable A1	2025/09/08	2026/09/07
Unknown	Chamber A Cable	Cable A2	Cable A2	2025/09/08	2026/09/07
BACL	Active Loop Antenna	1313-1A	4031911	2024/05/14	2027/05/13
Unknown	Chamber A Cable	Cable A3	Cable A3	2025/09/08	2026/09/07
Unknown	Chamber A Cable	Cable A4	Cable A4	2025/09/08	2026/09/07
JD	Filter Switch Unit	DT7220FSU	DS79906	2025/08/12	2026/08/11
JD	Multiplex Switch Test Control Set	DT7220SCU	DS79903	2025/08/12	2026/08/11
Audix	EMI Test software	E3	19821b(V9)	NCR	NCR
TDK	Chamber	Chamber A	2#	2026/07/03	2029/07/02
Radiated Emission Test_ Above 1GHz					
Rohde & Schwarz	Spectrum Analyzer	FSV40	101605	2025/09/01	2026/08/31
A.H.System	Preamplifier	PAM-0118P	489	2025/09/08	2026/09/07
Schwarzbeck	Horn Antenna	BBHA9120D (1201)	1143	2023/07/26	2026/07/25
Unknown	Chamber B Cable	Cable B1	Cable B1	2025/09/08	2026/09/07
Unknown	Chamber B Cable	Cable B2	Cable B2	2025/09/08	2026/09/07
Unknown	Chamber B Cable	Cable B3	Cable B3	2025/09/08	2026/09/07
JD	Filter Switch Unit	DT7220FSU	DS79906	2025/08/12	2026/08/11
JD	Multiplex Switch Test Control Set	DT7220SCU	DS79903	2025/08/12	2026/08/11
Audix	EMI Test software	E3	191218 V9(c)	NCR	NCR
TDK	Chamber	Chamber B	1#	2023/07/14	2026/07/13
RF Conducted Test					
Rohde & Schwarz	Spectrum Analyzer	FSV40	101942	2025/09/01	2026/08/31
Unknown	10dB Attenuator	Unknown	F-03-EM224	2026/06/24	2027/06/23

* **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).

RF EXPOSURE

Applicable Standard

FCC§1.1310 and §2.1093; RSS-102 Issue 6

Test Result

Compliant, please refer to the SAR report: 2601U67569E-SAA for FCC, 2601U67569E-SAB for IC.

FCC §15.203 & RSS-GEN §6.8 - 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.

The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

According to RSS-Gen §6.8,

For expediting the testing, measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter output power set at the maximum level. However, the transmitter shall comply with the applicable requirements under all operational conditions and when in combination with any type of antenna from the list provided in the test report (and in the notice to be included in the user manual, provided below).

When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer. The test report shall state the RF power, output power setting and spurious emission measurements with each antenna type that is used with the transmitter being tested.

For licence-exempt equipment with detachable antennas, the user manual shall also contain the following notice in a conspicuous location:

This radio transmitter [enter the device's ISSED certification number] has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device. Immediately following the above notice, the manufacturer shall provide a list of all antenna types which can be used with the transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna type.

Antenna Connector Construction

The EUT has an internal antenna arrangements which was permanently attached, and the maximum antenna gain[#] is 1.61dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Antenna Type	Antenna Gain [#]	Impedance	Frequency Range
Integral	1.61dBi	50Ω	900-930MHz

Result: Compliant.

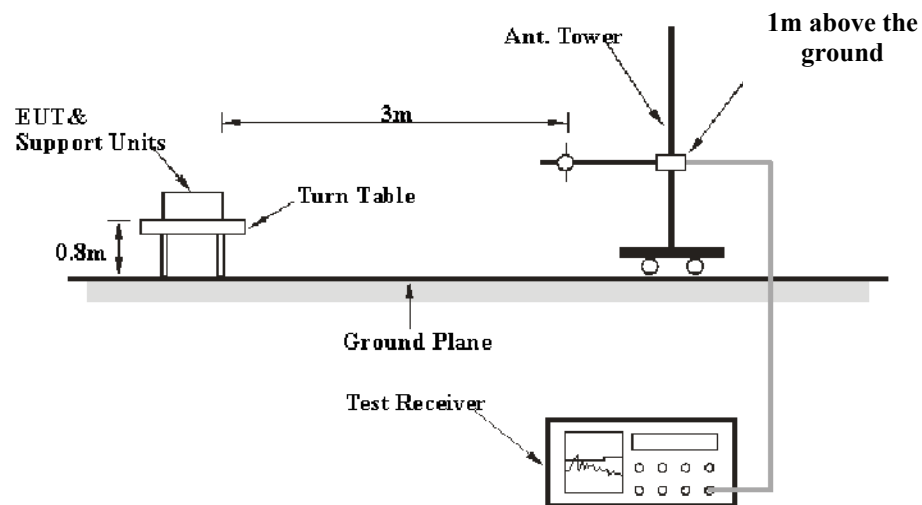
FCC §15.209, §15.205, §15.247(d), RSS-GEN §8.10 & RSS-247 §6.6 - SPURIOUS EMISSIONS

Applicable Standard

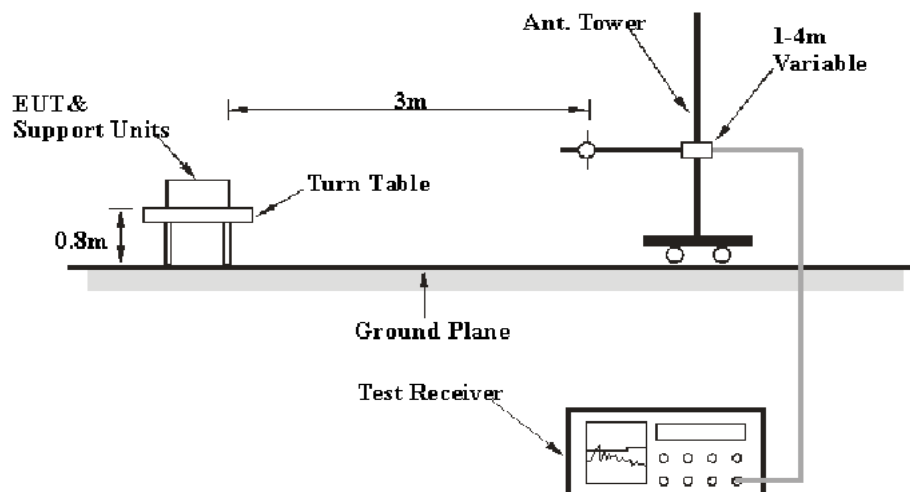
FCC §15.247 (d); §15.209; §15.205; RSS-247 §6.6, RSS-GEN §8.10.

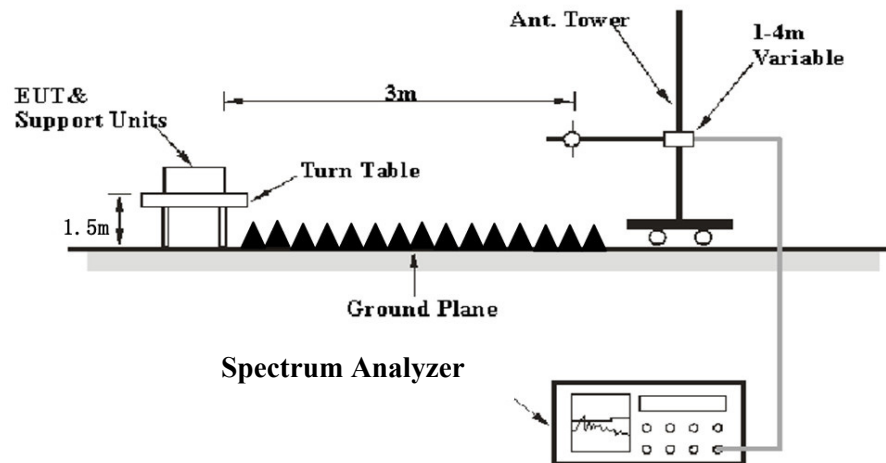
EUT Setup

9 kHz-30MHz:



30MHz-1GHz:



Above 1GHz:

The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.10-2020. The specification used was the FCC 15.205, FCC 15.209, FCC 15.247, RSS-Gen and RSS-247 limits.

EMI Test Receiver & Spectrum Analyzer Setup

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

9 kHz-1GHz:

Frequency Range	RBW	Video B/W	IF B/W	Detector	Measurement
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
	120 kHz	500 kHz	/	PK	PK

Above 1 GHz:

Pre-scan

Measurement	Duty cycle	RBW	Video B/W	Detector
PK	Any	1MHz	3 MHz	Peak
AV	>98%	1MHz	1 kHz	Peak
	<98%	1MHz	>1/Ton, not less than 1kHz	Peak

Final measurement for emission identified during pre-scan

Measurement	Duty cycle	RBW	Video B/W	Detector
PK	Any	1MHz	3 MHz	Peak
AV	>98%	1MHz	10 Hz	Peak
	<98%	1MHz	≥1/Ton	Peak

Note: Ton is minimum transmission duration

Test Procedure

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

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.

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

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:

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

Test Data**Environmental Conditions**

Temperature:	23.6 °C
Relative Humidity:	59 %
ATM Pressure:	101.7 kPa

The testing was performed by Alex Yan on 2026-07-27 for below 1GHz and Hugh Li on 2026-07-13 for above 1GHz.

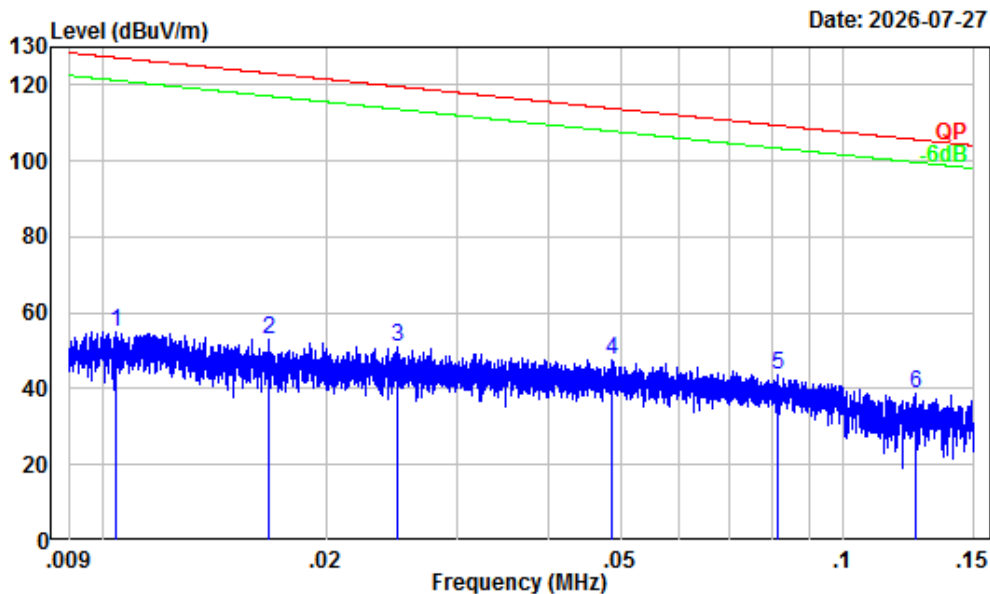
EUT operation mode: Transmitting

Note:

- 1. Pre-scan in the X, Y and Z axes of orientation, the worst case Z-axis of orientation was recorded.*
- 2. For the radiated spurious emission below 1GHz, When the test result of peak was less than the limit of QP/Average more than 6dB, just peak value were recorded.*
- 3. The spurious emission from 9 kHz-30MHz of IC RSS-Gen standard, the unit of final result on the test plots are dBμV/m, so the limit should be added by 51,5 dB from dBμA/m to dBμV/m.*

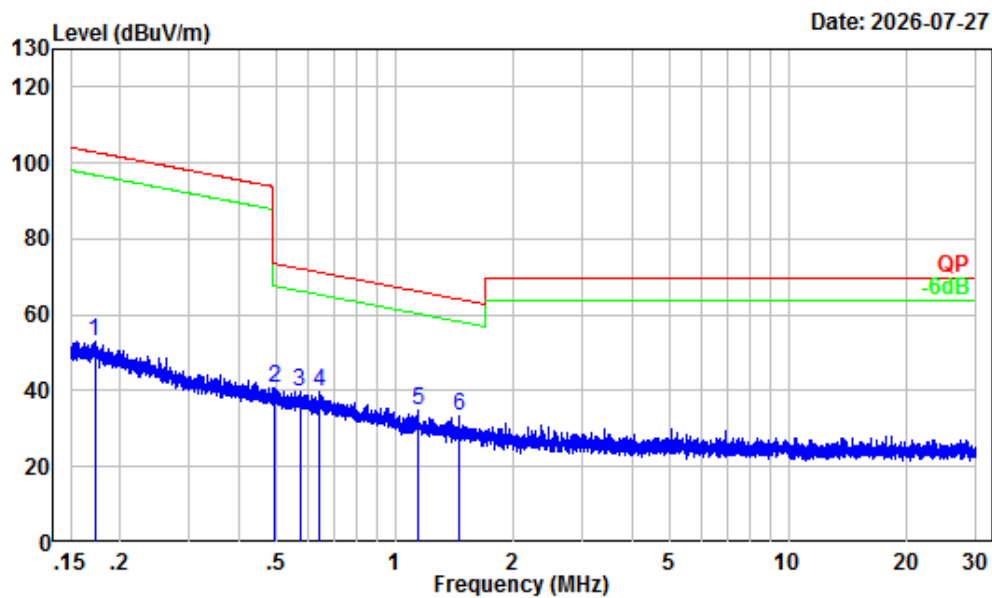
9 kHz-30MHz: (Maximum output power mode, High channel)

Parallel (worst case)



Site : Chamber A
Condition : 3m
Project Number : 2601U67569E-RF
Test Mode : Transmitting
Detector: Peak RBW/VBW: 0.3/1kHz
Tester : Alex Yan

	Freq	Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1	0.010	32.22	22.66	54.88	127.26	-72.38 Peak
2	0.017	31.02	21.95	52.97	123.14	-70.17 Peak
3	0.025	29.44	21.74	51.18	119.63	-68.45 Peak
4	0.049	26.54	21.22	47.76	113.86	-66.10 Peak
5	0.081	23.30	20.30	43.60	109.38	-65.78 Peak
6	0.125	20.53	17.99	38.52	105.67	-67.15 Peak

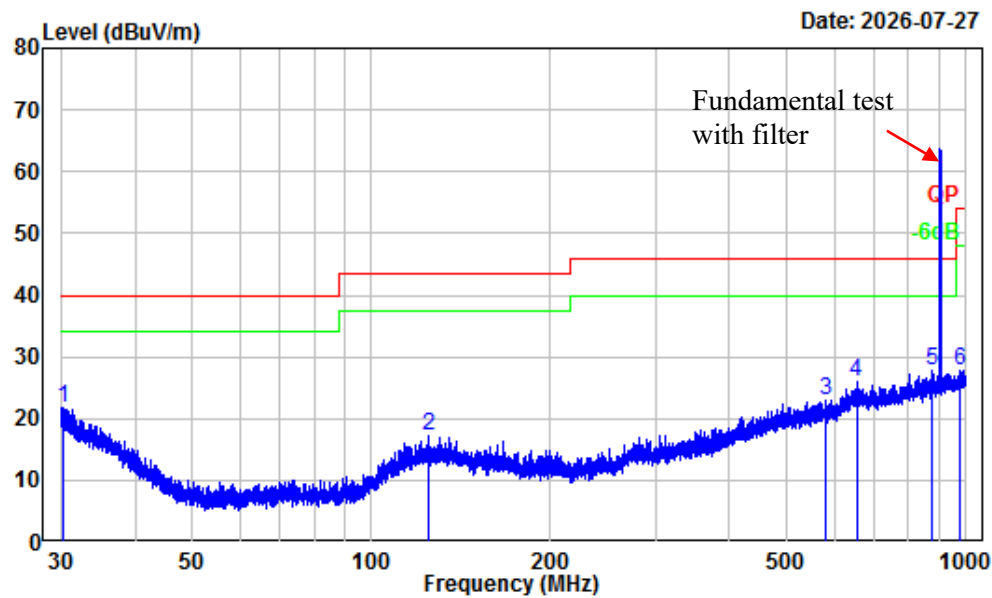


Site : Chamber A
Condition : 3m
Project Number : 2601U67569E-RF
Test Mode : Transmitting
Detector: Peak RBW/VBW: 10/30kHz
Tester : Alex Yan

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.172	17.72	35.05	52.77	102.87	-50.10	Peak
2	0.494	6.52	33.99	40.51	73.73	-33.22	Peak
3	0.573	5.50	34.32	39.82	72.42	-32.60	Peak
4	0.642	4.65	34.94	39.59	71.41	-31.82	Peak
5	1.140	0.81	34.19	35.00	66.31	-31.31	Peak
6	1.460	-0.09	33.44	33.35	64.12	-30.77	Peak

30 MHz~1 GHz: (Maximum output power mode, High channel)

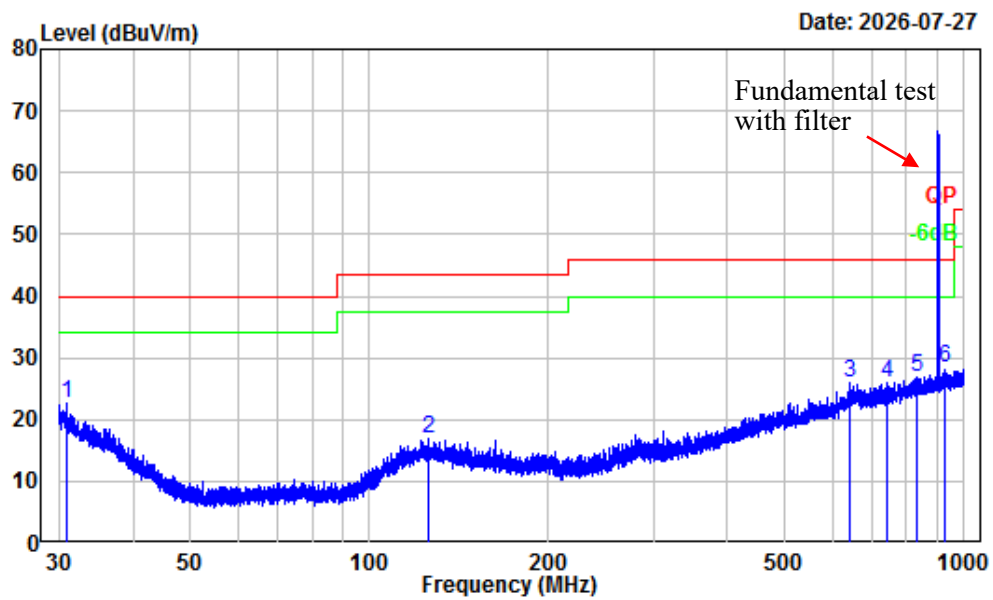
Horizontal



Site : Chamber A
Condition : 3m Horizontal
Project Number : 2601U67569E-RF
Test Mode : Transmitting
Detector: Peak RBW/VBW: 120/500kHz
Tester : Alex Yan

	Freq Factor		Read Level		Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	30.357	-5.93	27.80	21.87	40.00	-18.13	Peak
2	125.007	-11.12	28.28	17.16	43.50	-26.34	Peak
3	582.232	-5.21	28.11	22.90	46.00	-23.10	Peak
4	654.232	-3.03	28.89	25.86	46.00	-20.14	Peak
5	873.714	-1.26	29.00	27.74	46.00	-18.26	Peak
6	980.039	0.19	27.48	27.67	54.00	-26.33	Peak

Vertical



Site : Chamber A
Condition : 3m Vertical
Project Number : 2601U67569E-RF
Test Mode : Transmitting
Detector: Peak RBW/VBW: 120/500kHz
Tester : Alex Yan

	Freq Factor		Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	30.948	-6.22	28.77	22.55	40.00	-17.45	Peak
2	125.446	-11.12	28.11	16.99	43.50	-26.51	Peak
3	641.454	-3.30	29.22	25.92	46.00	-20.08	Peak
4	744.213	-2.88	28.83	25.95	46.00	-20.05	Peak
5	835.878	-1.67	28.42	26.75	46.00	-19.25	Peak
6	925.756	-0.59	28.99	28.40	46.00	-17.60	Peak

Above 1 GHz:

Frequency (MHz)	Reading (dBμV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Low Channel							
1810	55.17	PK	H	-13.96	41.21	74	-32.79
1810	56.26	PK	V	-13.96	42.3	74	-31.7
2715	57.46	PK	H	-10.53	46.93	74	-27.07
2715	56.17	PK	V	-10.53	45.64	74	-28.36
3620	62.14	PK	H	-10	52.14	74	-21.86
3620	58.32	PK	V	-10	48.32	74	-25.68
4525	54.42	PK	H	-8.08	46.34	74	-27.66
4525	55.52	PK	V	-8.08	47.44	74	-26.56
Middle Channel							
1830	55.65	PK	H	-13.84	41.81	74	-32.19
1830	56.12	PK	V	-13.84	42.28	74	-31.72
2745	58.77	PK	H	-10.63	48.14	74	-25.86
2745	55.95	PK	V	-10.63	45.32	74	-28.68
3660	63.64	PK	H	-9.71	53.93	74	-20.07
3660	61.79	PK	V	-9.71	52.08	74	-21.92
4575	54.18	PK	H	-8.23	45.95	74	-28.05
4575	54.66	PK	V	-8.23	46.43	74	-27.57
High Channel							
1850	56.87	PK	H	-13.73	43.14	74	-30.86
1850	56.2	PK	V	-13.73	42.47	74	-31.53
2775	58.78	PK	H	-10.64	48.14	74	-25.86
2775	56.21	PK	V	-10.64	45.57	74	-28.43
3700	59.66	PK	H	-9.49	50.17	74	-23.83
3700	58.82	PK	V	-9.49	49.33	74	-24.67
4625	54.49	PK	H	-8.25	46.24	74	-27.76
4625	55.2	PK	V	-8.25	46.95	74	-27.05

Note:

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

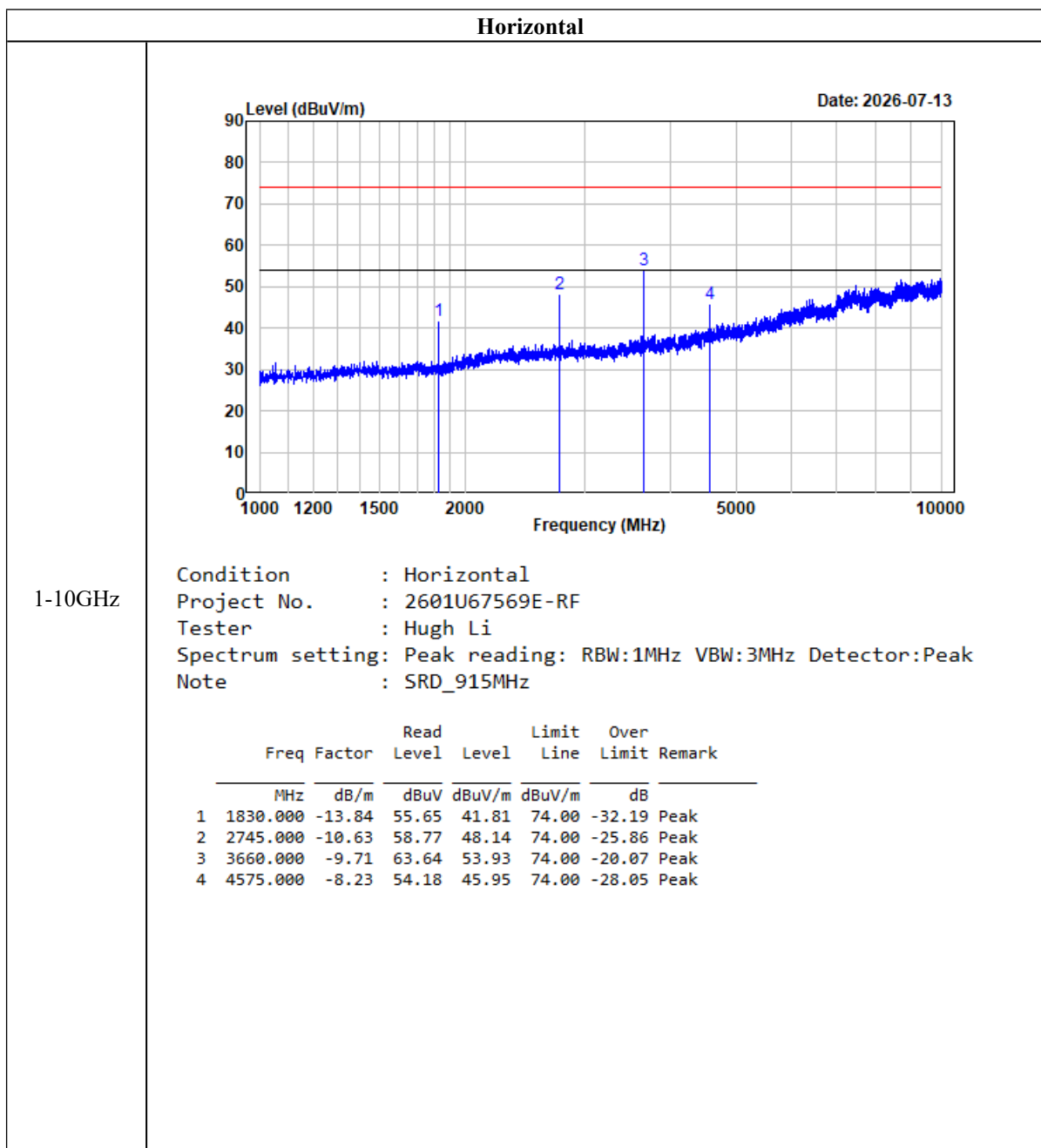
Corrected Amplitude = Factor + Reading

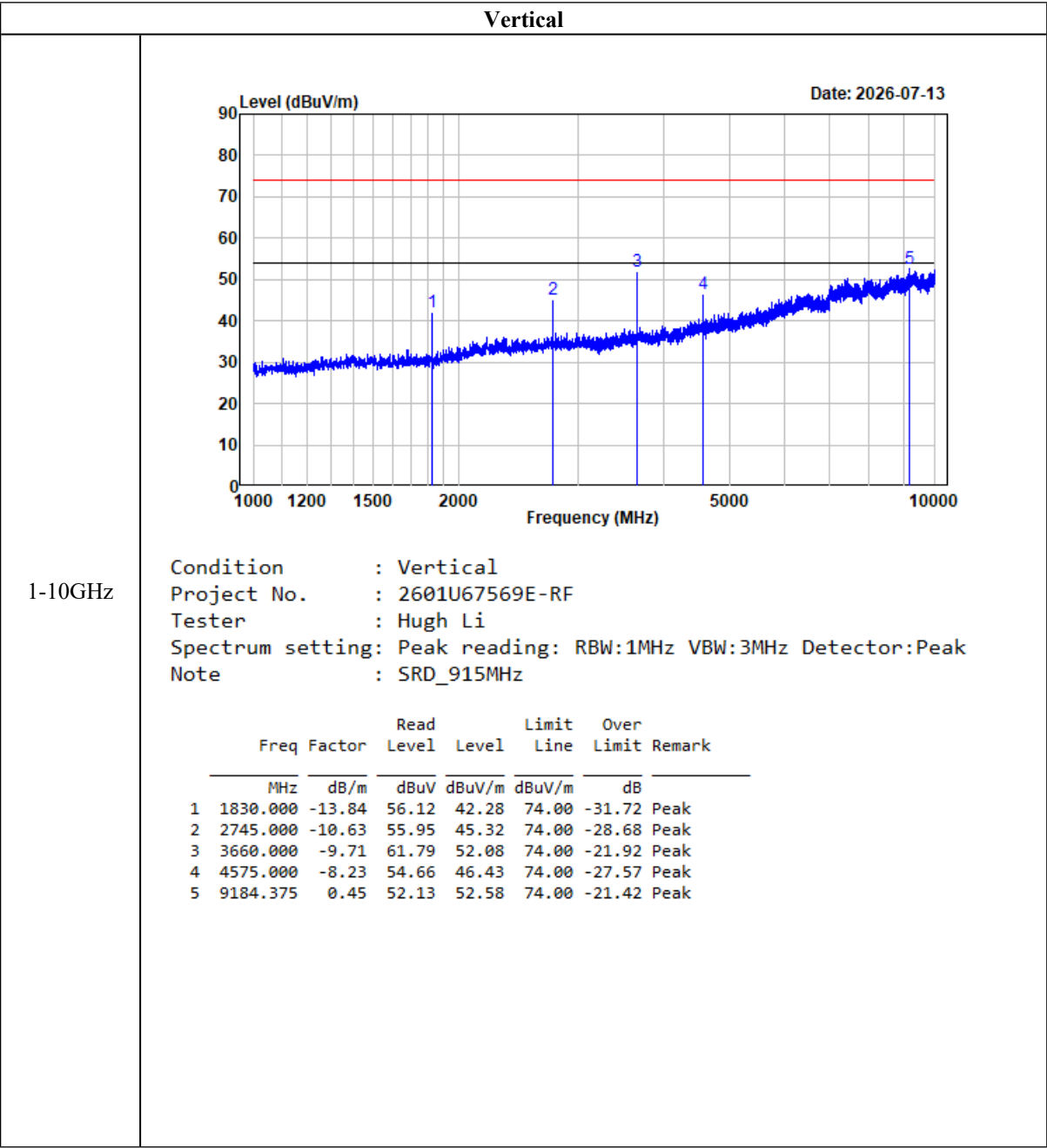
Margin = Corrected Amplitude - Limit

The other spurious emission which is in the noise floor level was not recorded.

The test result of peak was less than the limit of average, so just peak values were recorded.

Listed with worst case test plot:





FCC §15.247(a) (2), RSS-GEN §6.7 & RSS-247 §6.3.1(a) -99% OCCUPIED BANDWIDTH & 6 dB EMISSION BANDWIDTH

Applicable Standard

According to FCC §15.247(a) (2)

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

According to RSS-247 §6.3.1(a)

The minimum 6 dB bandwidth shall be 500 kHz.

According to RSS-Gen §6.7

The occupied bandwidth or the “99% emission bandwidth” is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs.

In some cases, the “x dB bandwidth” is required, which is defined as the frequency range between two points, one at the lowest frequency below and one at the highest frequency above the carrier frequency, at which the maximum power level of the transmitted emission is attenuated x dB below the maximum in-band power level of the modulated signal, where the two points are on the outskirts of the in-band emission.

The following conditions shall be observed for measuring the occupied bandwidth and x dB bandwidth:

- The transmitter shall be operated at its maximum carrier power measured under normal test conditions.
- The span of the spectrum analyzer shall be set large enough to capture all products of the modulation process, including the emission skirts, around the carrier frequency, but small enough to avoid having other emissions (e.g. on adjacent channels) within the span.
- The detector of the spectrum analyzer shall be set to “Sample”. However, a peak, or peak hold, may be used in place of the sampling detector since this usually produces a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold (or “Max Hold”) may be necessary to determine the occupied / x dB bandwidth if the device is not transmitting continuously.
- The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / x dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value. Video averaging is not permitted.

Note: It may be necessary to repeat the measurement a few times until the RBW and VBW are in compliance with the above requirement.

For the 99% emission bandwidth, the trace data points are recovered and directly summed in linear power level terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached, and that frequency recorded. The process is repeated for the highest frequency data points (starting at the highest frequency, at the right side of the span, and going down in frequency). This frequency is then recorded. The difference between the two recorded frequencies is the occupied bandwidth (or the 99% emission bandwidth).

Test Procedure

Test Method: ANSI C63.10-2020 Clause 11.8.1 & Clause 6.9.3

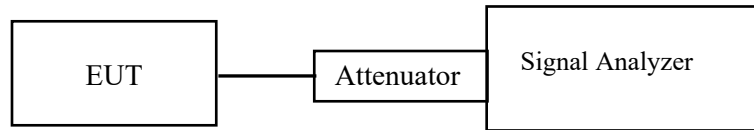
The steps for the first option are as follows:

- a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
- b) Set the VBW $\geq [3 \times \text{RBW}]$.
- c) Detector = peak.
- d) Trace mode = max-hold.
- e) Sweep = No faster than coupled (auto) time.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission by placing 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 “-6 dB down amplitude”. If a marker is below this “-6 dB down amplitude” value, then it shall be as close as possible to this value.

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 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 VBW shall be at least three times the 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 $[10 \log (\text{OBW}/\text{RBW})]$ below the reference level. Specific guidance is given in 4.1.6.2.
- d) Step a) through step c) might require iteration to adjust within the specified range.
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max-hold mode (until the trace stabilizes) shall be used.
- f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
- g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.

h) The occupied 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:	25.1 °C
Relative Humidity:	48 %
ATM Pressure:	101 kPa

The testing was performed by Ethan Bu from 2026-07-16 to 2026-08-15.

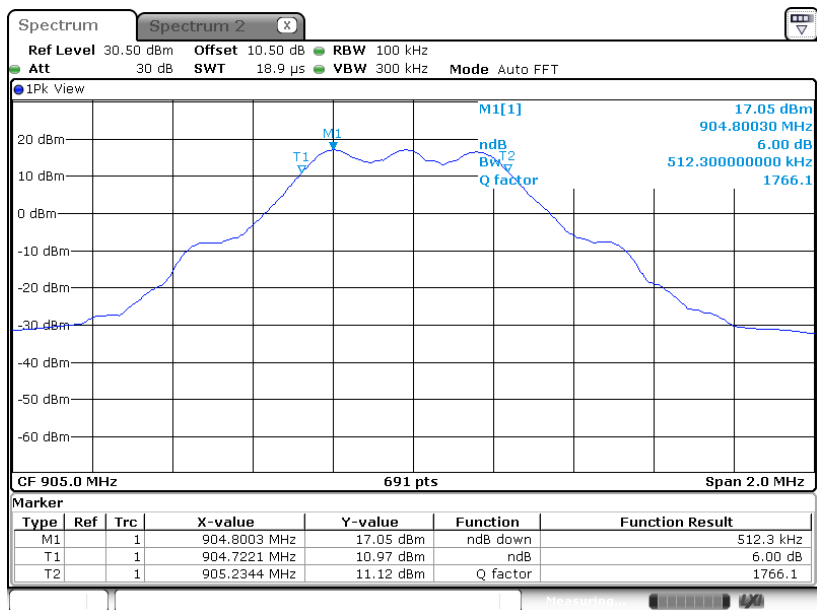
EUT operation mode: Transmitting

Test Result: Compliant. Please refer to the following table and plots.

Test Channel	Test Frequency (MHz)	99% Occupied Bandwidth (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)
Low	905	0.551	0.512	≥ 0.5
Middle	915	0.551	0.515	≥ 0.5
High	925	0.554	0.512	≥ 0.5

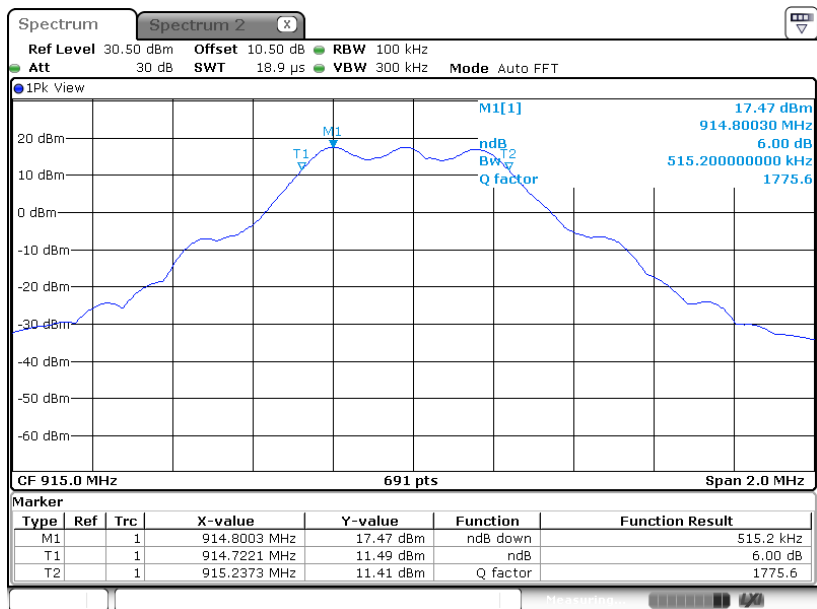
6 dB Bandwidth

Low Channel



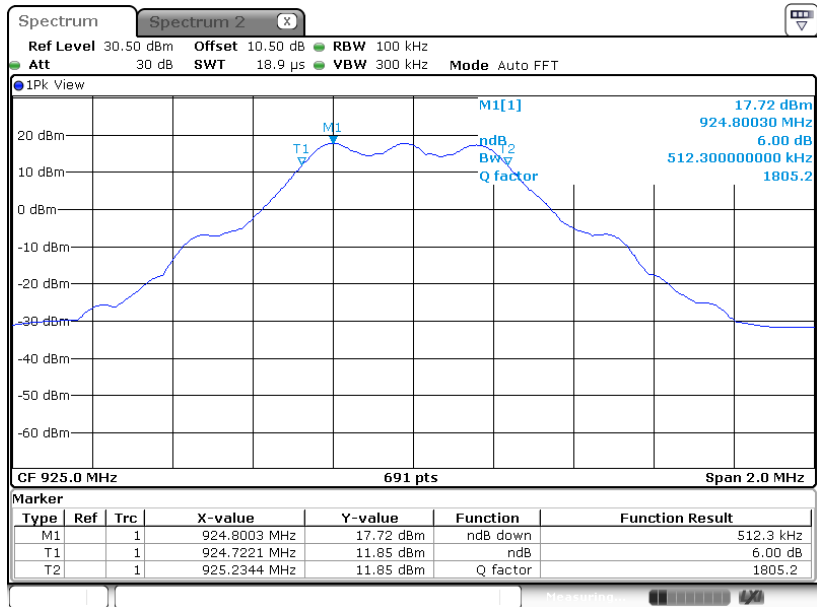
ProjectNo.:2601U67569E-RF Tester:Ethan Bu
Date: 16.JUL.2026 23:36:55

Middle Channel



ProjectNo.:2601U67569E-RF Tester:Ethan Bu
Date: 16.JUL.2026 23:37:31

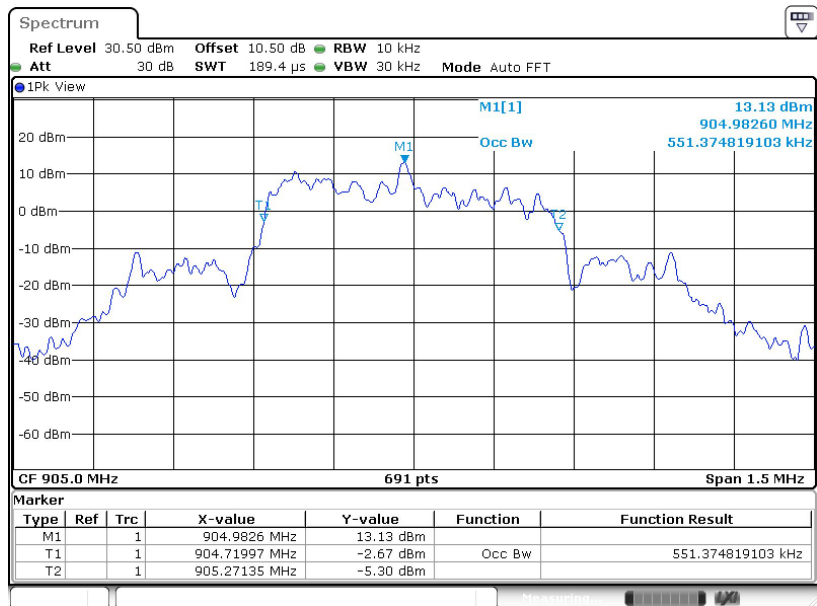
High Channel



ProjectNo.:2601U67569E-RF Tester:Ethan Bu
Date: 16.JUL.2026 23:38:04

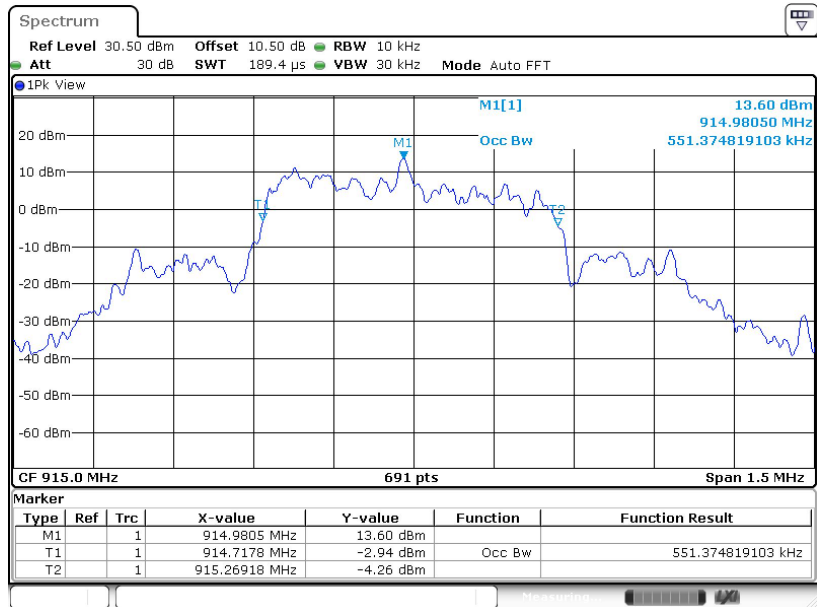
99% Occupied Bandwidth

Low Channel



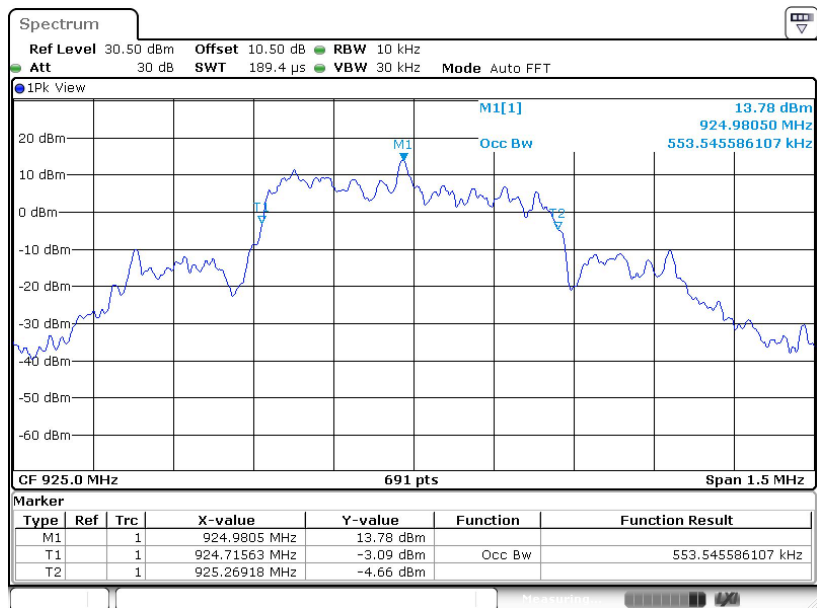
ProjectNo.:2601U67569E-RF Tester:Ethan Bu
Date: 15.AUG.2026 17:50:08

Middle Channel



ProjectNo.:2601U67569E-RF Tester:Ethan Bu
Date: 15.AUG.2026 17:50:54

High Channel



ProjectNo.:2601U67569E-RF Tester:Ethan Bu
Date: 15.AUG.2026 17:51:47

FCC §15.247(b) (3) & RSS-247 §6.3.2 - MAXIMUM CONDUCTED OUTPUT POWER

Applicable Standard

According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

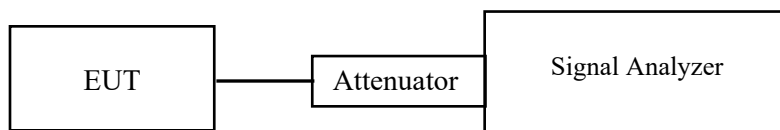
According to RSS-247 §6.3.2 For DTS operating in the band 902-928 MHz, the maximum peak conducted output power shall not exceed 1W, and the e.i.r.p. shall not exceed 4 W.

Test Procedure

Test Method: ANSI C63.10-2020 Clause 11.9.1.1

The following procedure shall be used when an instrument with a resolution bandwidth that is greater than the DTS bandwidth is available to perform the measurement:

- a) Set the RBW $\geq$ DTS bandwidth.
- b) Set VBW $\geq [3 \times \text{RBW}]$.
- c) Set span $\geq [3 \times \text{RBW}]$.
- d) Sweep time = No faster than coupled (auto) time.
- e) Detector = peak.
- f) Trace mode = max-hold.
- g) Allow trace to fully stabilize.
- h) Use peak marker function to determine the peak amplitude level.



Note: A short RF cable with low cable loss connected to the EUT antenna port, which was provided by client or lab, the cable loss was add with offset into test equipment, the total offset consists of attenuator and/or RF cable loss

Test Data

Environmental Conditions

Temperature:	25.1°C
Relative Humidity:	48 %
ATM Pressure:	101.0 kPa

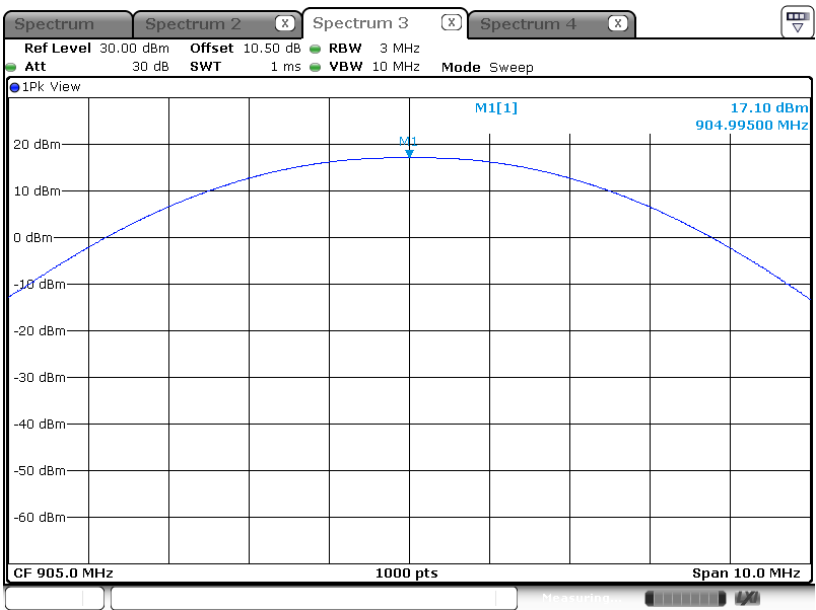
The testing was performed by Ethan Bu on 2026-07-16 and 2026-07-27.

EUT operation mode: Transmitting

Test Result: Compliant. Please refer to the following table and plots.

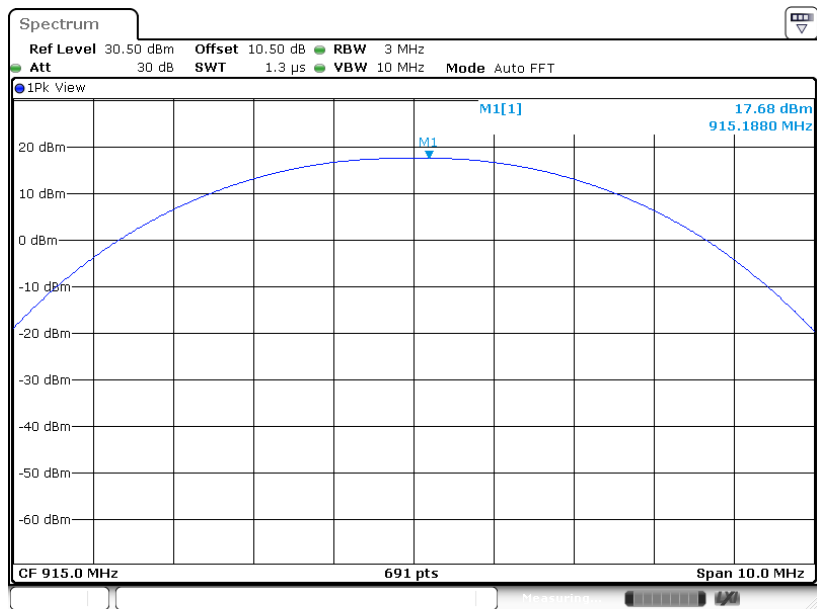
Test Channel	Test Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)	Limit (dBm)	EIRP (dBm)	EIRP Limit (IC) (dBm)
Lowest	905	17.10	30	18.71	36
Middle	915	17.68	30	19.29	36
Highest	925	17.77	30	19.38	36

Low Channel



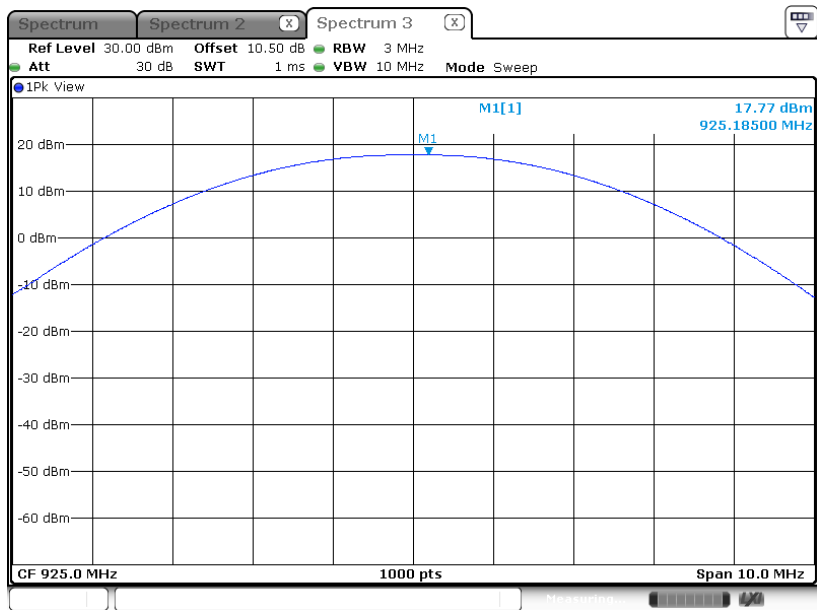
ProjectNo.:2601U67569E-RF Tester:Ethan Bu
Date: 16.JUL.2026 23:49:31

Middle Channel



ProjectNo.:2601U67569E-RFTester:Ethan Bu
Date: 27.JUL.2026 17:59:34

High Channel



ProjectNo.:2601U67569E-RF Tester:Ethan Bu
Date: 16.JUL.2026 23:43:00

FCC §15.247(e) & RSS-247 §6.3.1(B) - POWER SPECTRAL DENSITY

Applicable Standard

According to FCC §15.247(e):

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

According to RSS-247 §6.3.1(b):

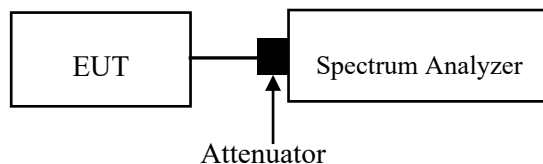
The transmitter power spectral density conducted from the transmitter to the antenna(s) shall not be greater than 8 dBm/3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of section 6.3.2. The power spectral density shall be determined using the same method as is used to determine the maximum conducted output power.

Test Procedure

Test Method: ANSI C63.10-2020 Clause 11.10.2

The following procedure shall be used if maximum peak conducted output power was used to determine compliance, and it is optional if the maximum conducted (average) output power was used to determine compliance:

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span >1.5 times the DTS bandwidth.
- c) Set the RBW to $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set the VBW $\geq [3 \times \text{RBW}]$.
- e) Detector = peak.
- f) Sweep time = No faster than coupled (auto) time.
- g) Trace mode = max-hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.



Note: A short RF cable with low cable loss connected to the EUT antenna port, which was provided by client or lab, the cable loss was add with offset into test equipment, the total offset consists of attenuator and/or RF cable loss

Test Data

Environmental Conditions

Temperature:	25.1 °C
Relative Humidity:	48 %
ATM Pressure:	101.0 kPa

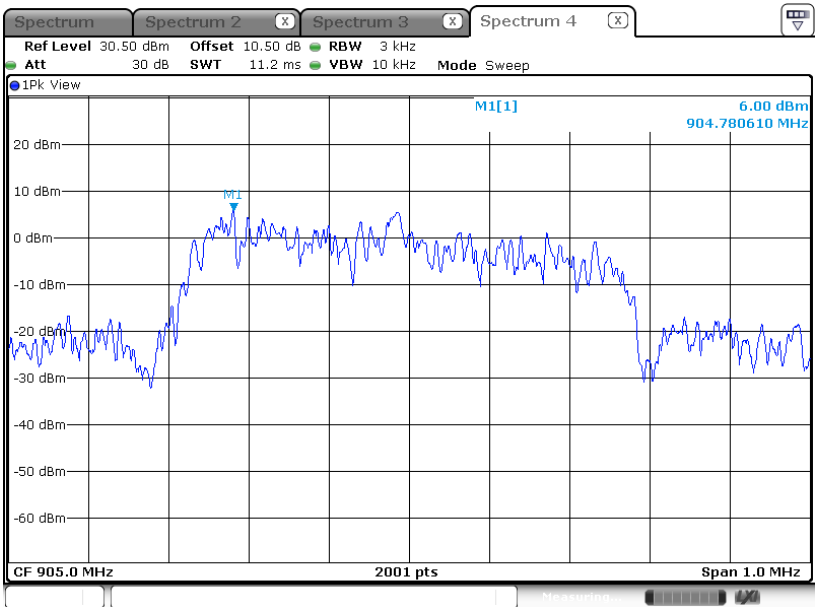
The testing was performed by Ethan Bu from 2026-07-16 to 2026-07-17.

EUT operation mode: Transmitting

Test Result: Compliant. Please refer to the following table and plots.

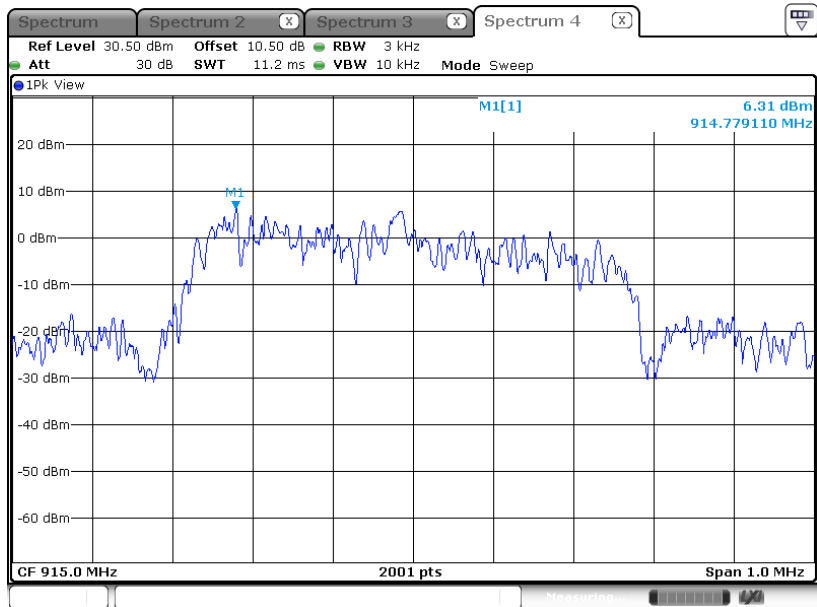
Test Channel	Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)
Low	905	6.00	≤8.00
Middle	915	6.31	≤8.00
High	925	6.64	≤8.00

Low Channel



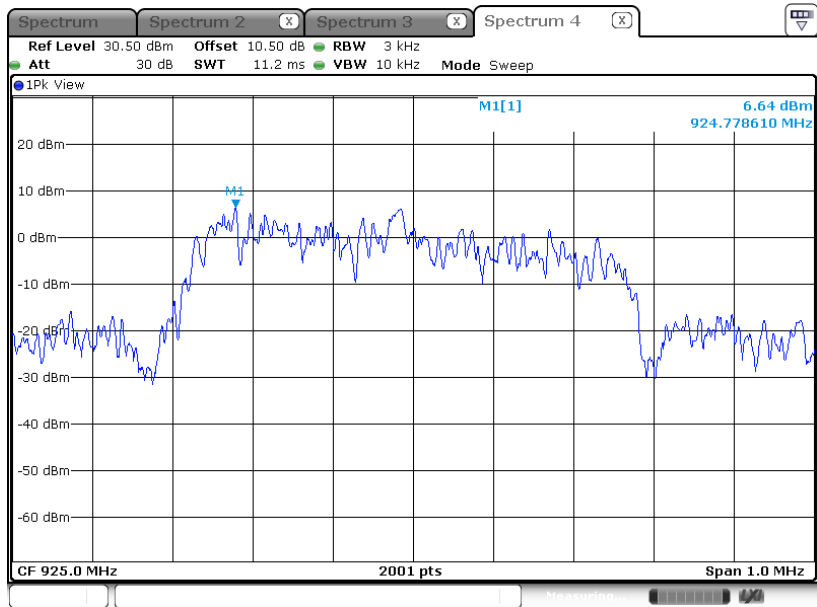
ProjectNo.:2601U67569E-RF Tester:Ethan Bu
Date: 17.JUL.2026 00:27:16

Middle Channel



ProjectNo.:2601U67569E-RF Tester:Ethan Bu
Date: 16.JUL.2026 23:57:45

High Channel



ProjectNo.:2601U67569E-RF Tester:Ethan Bu
Date: 16.JUL.2026 23:45:11

FCC §15.247(d) & RSS-247 §6.6 - 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE

Applicable Standard

According to FCC §15.247(d),

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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

According to RSS-247 § 6.6,

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device, or hybrid system is operating,, the RF power that is produced 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 that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 6.3.2, the attenuation required shall be 30 dB instead of 20dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

Test Procedure

Test Method: ANSI C63.10-2020 Clause 11.11.3

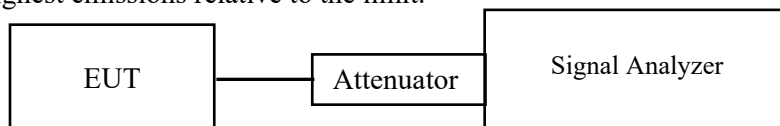
Establish an emission level by using the following procedure:

- a) Set the center frequency and span to encompass frequency range to be measured. Note that the frequency range might need to be divided into multiple frequency ranges to retain frequency resolution.

NOTE—the number of points can also be increased for large spans to retain frequency resolution

- b) Set the RBW = 100 kHz.
- c) Set the VBW $\geq [3 \times \text{RBW}]$.
- d) Detector = peak.
- e) Sweep time = No faster than coupled (auto) time.
- f) Trace mode = max-hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.



Test Data**Environmental Conditions**

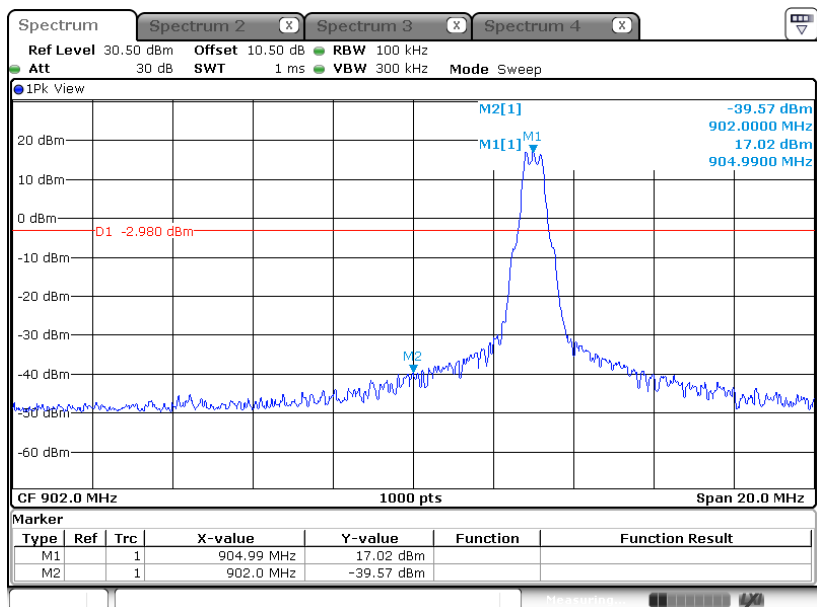
Temperature:	25.1 °C
Relative Humidity:	48 %
ATM Pressure:	101.0 kPa

The testing was performed by Ethan Bu on 2026-07-17.

EUT operation mode: Transmitting

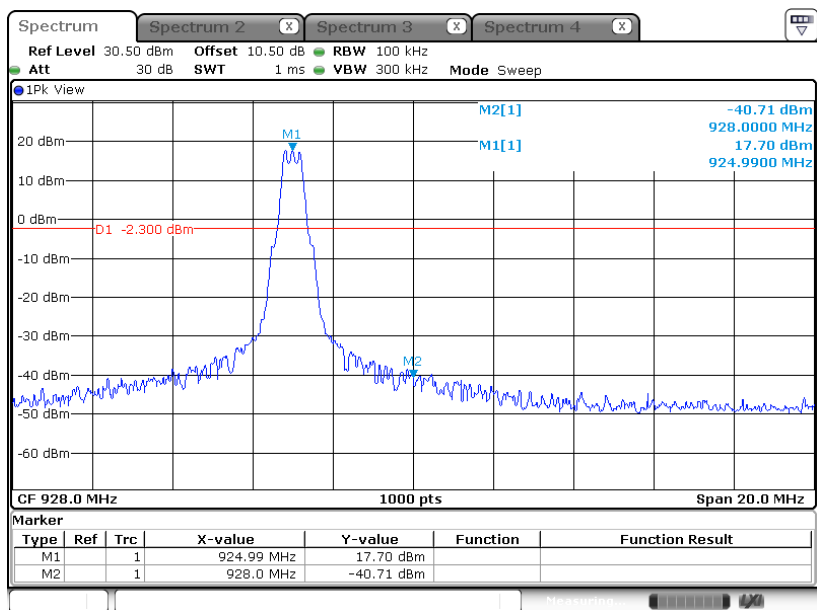
Test Result: Compliant. Please refer to the following plots.

Band edge, Left side



ProjectNo.:2601U67569E-RF Tester:Ethan Bu
Date: 17.JUL.2026 00:06:19

Band edge, Right side



ProjectNo.:2601U67569E-RF Tester:Ethan Bu
Date: 17.JUL.2026 00:04:44

FCC §15.247(D) & RSS-247 §6.6 - CONDUCTED SPURIOUS EMISSION

Applicable Standard

According to FCC §15.247(d),

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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

According to RSS-247 § 6.6,

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device, or hybrid system is operating,, the RF power that is produced 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 that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 6.3.2, the attenuation required shall be 30 dB instead of 20dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

Test Procedure

Test Method: ANSI C63.10-2020 Clause 11.11.3

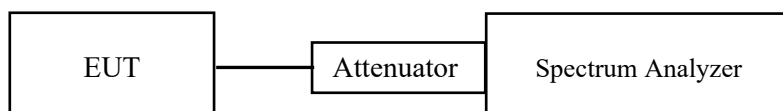
Establish an emission level by using the following procedure:

- a) Set the center frequency and span to encompass frequency range to be measured. Note that the frequency range might need to be divided into multiple frequency ranges to retain frequency resolution.

NOTE—the number of points can also be increased for large spans to retain frequency resolution

- b) Set the RBW = 100 kHz.
- c) Set the VBW $\geq [3 \times \text{RBW}]$.
- d) Detector = peak.
- e) Sweep time = No faster than coupled (auto) time.
- f) Trace mode = max-hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.



Note: the worst cable loss among the test frequency range was added into plots.

Test Data

Environmental Conditions

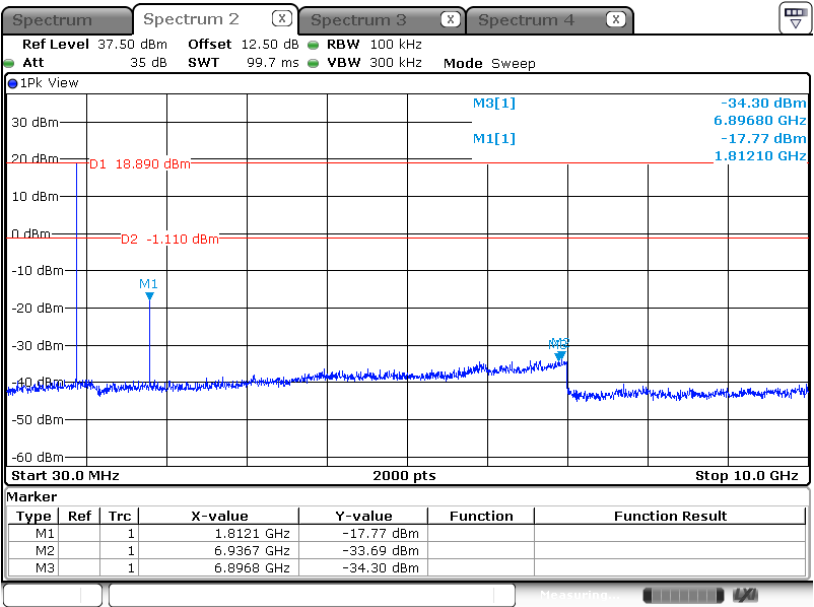
Temperature:	25.1 °C
Relative Humidity:	48 %
ATM Pressure:	101.0 kPa

The testing was performed by Ethan Bu from 2026-07-16 to 2026-07-17.

EUT operation mode: Transmitting

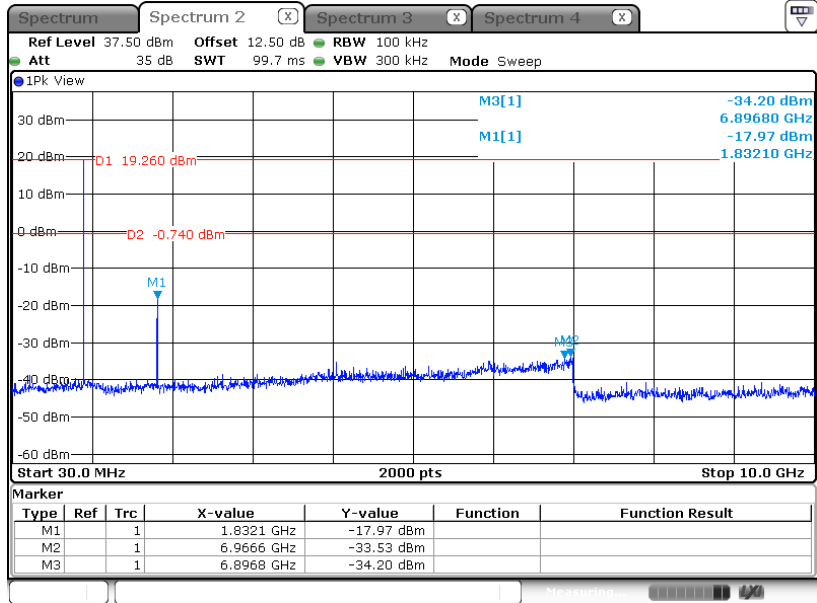
Test Result: Compliant

Low Channel



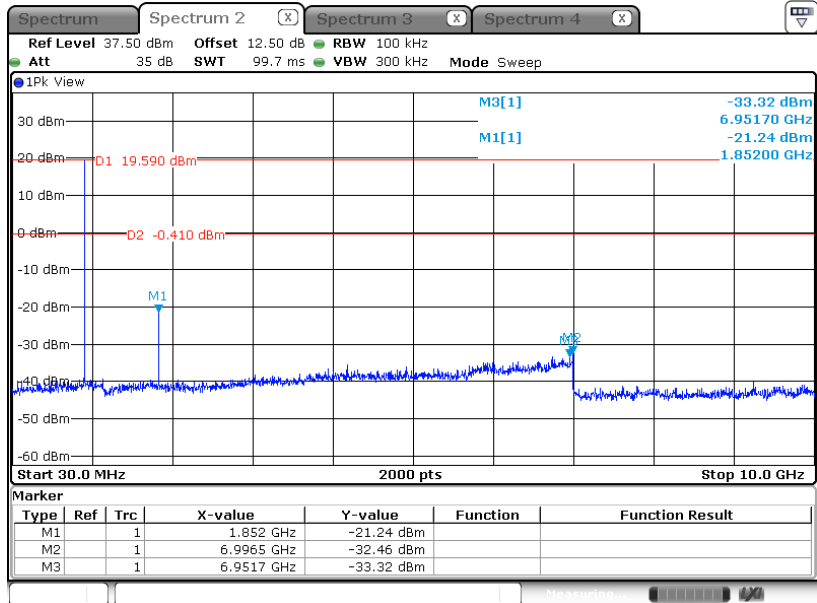
ProjectNo.:2601U67569E-RF Tester:Ethan Bu
Date: 16.JUL.2026 23:54:00

Middle Channel



ProjectNo.:2601U67569E-RF Tester:Ethan Bu
Date: 17.JUL.2026 00:00:52

High Channel



ProjectNo.:2601U67569E-RF Tester:Ethan Bu
Date: 16.JUL.2026 23:47:28

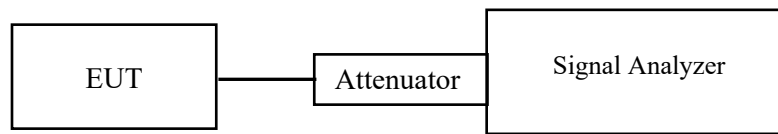
C63.10 §11.6- DUTY CYCLE

Test Procedure

According to ANSI C63.10-2020 Section 11.6

Measurements of duty cycle and transmission duration shall be performed using one of the following techniques:

- a) A diode detector and an oscilloscope that together have a sufficiently short response time to permit accurate measurements of the ON and OFF times of the transmitted signal.
- b) The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the ON and OFF times of the transmitted signal:
 - 1) Set the center frequency of the instrument to the center frequency of the transmission.
 - 2) Set $RBW \geq OBW$ if possible; otherwise, set RBW to the largest available value.
 - 3) Set $VBW \geq RBW$. Set detector = peak or average.
 - 4) The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$ and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring the duty cycle shall not be used if $T \leq 16.7 \mu s$.)



Test Data

Environmental Conditions

Temperature:	25.1 °C
Relative Humidity:	48 %
ATM Pressure:	101.0 kPa

The testing was performed by Ethan Bu on 2026-07-16.

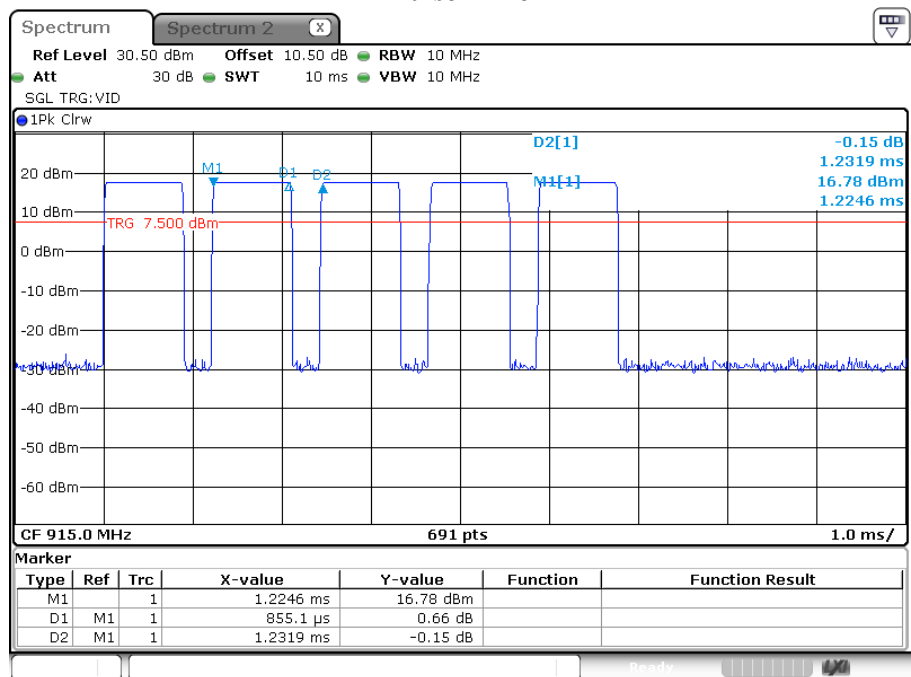
EUT operation mode: Transmitting

Test Result: Compliant.

Test Frequency (MHz)	Ton (ms)	Ton+off (ms)	Duty cycle (%)	1/T (Hz)	VBW Setting (Hz)
915	4.275	20.203	21.16	234	300

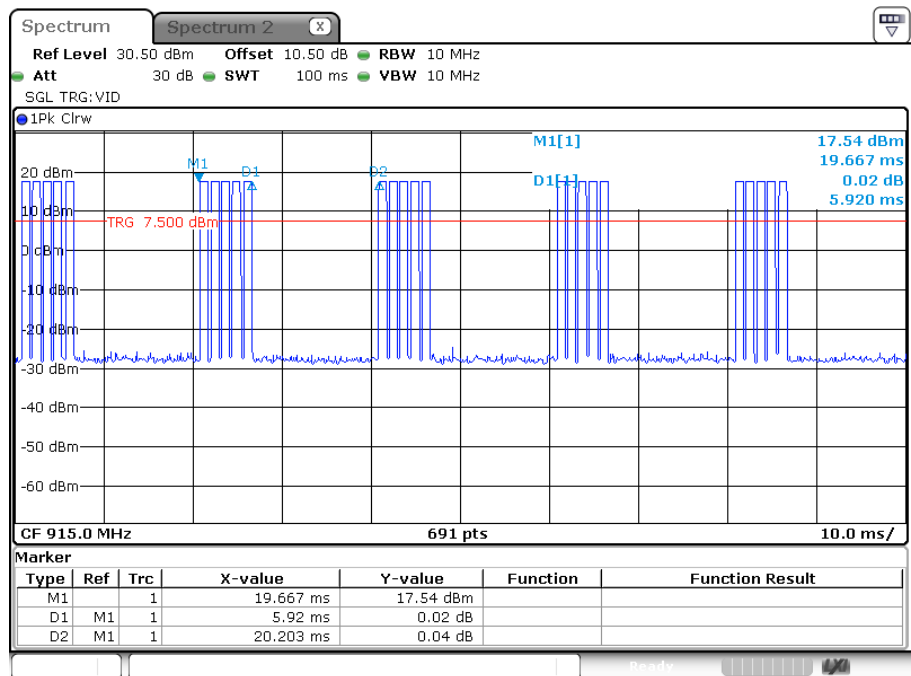
Note: $Ton = 5 * \text{Pulse time} = 5 * 0.855ms = 4.275ms$

Pulse Time



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Ton+off



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EUT PHOTOGRAPHS

Please refer to the attachment 2601U67569E-RF-EXP External photo and 2601U67569E-RF-INP Internal photo.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2601U67569E-RF-TSP Test Setup photo.

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