

FCC Part 15.247

TEST REPORT

For

Taisync Technology Inc.

2051 Junction Ave. Ste 115 San Jose California 95131 United States

FCC ID: 2AQVB-P241F

Report Type: Original Report	Product Type: 2.4GHz HD Wireless Link
Report Producer : <u>Jojo Lu</u>	
Report Number : <u>RXZ251125069RF01</u>	
Report Date : <u>2026-01-20</u>	
Reviewed By: <u>Andy Shih</u> <i>Andy Shih</i>	
Prepared By: Bay Area Compliance Laboratories Corp. (New Taipei Laboratory) 70, Lane 169, Sec. 2, Datong Road, Xizhi Dist., New Taipei City 221, Taiwan, R.O.C. Tel: +886 (2) 2647 6898 Fax: +886 (2) 2647 6895 www.baclcorp.com.tw	

Revision History

Revision	No.	Report Number	Issue Date	Description	Author/ Revised by
0.0	RXZ251125069	RXZ251125069RF01	2026-01-20	Original Report	Jojo Lu

TABLE OF CONTENTS

1	General Information.....	5
1.1	Product Description for Equipment under Test (EUT)	5
1.2	Objective	6
1.3	Test Methodology.....	6
1.4	Statement.....	6
1.5	Measurement Uncertainty	7
1.6	Environmental Conditions.....	7
1.7	Test Facility.....	7
2	System Test Configuration.....	8
2.1	Description of Test Configuration.....	8
2.2	EUT Exercise Software	8
2.3	Equipment Modifications	8
2.4	Test Mode.....	8
2.5	Support Equipment List and Details.....	9
2.6	External Cable List and Details.....	9
2.7	Block Diagram of Test Setup	9
2.8	Duty Cycle.....	11
3	Summary of Test Results.....	12
4	Test Equipment List and Details	13
5	FCC §15.203 – Antenna Requirements.....	15
5.1	Applicable Standard	15
5.2	Antenna List and Details	15
6	FCC §15.207(a) – AC Line Conducted Emissions	16
6.1	Applicable Standard	16
6.2	EUT Setup	16
6.3	EMI Test Receiver Setup	16
6.4	Test Procedure.....	17
6.5	Corrected Factor & Over Limit Calculation.....	17
6.6	Test Results	18
7	FCC §15.209, §15.205 , §15.247(d) – Spurious Emissions	19
7.1	Applicable Standard	19
7.2	EUT Setup	20
7.3	EMI Test Receiver & Spectrum Analyzer Setup.....	21
7.4	Test Procedure.....	22
7.5	Corrected Factor & Margin Calculation.....	22
7.6	Test Results	23
8	FCC §15.247(a)(2) – 6 dB Emission Bandwidth.....	35
8.1	Applicable Standard	35
8.2	Test Procedure.....	35
8.3	Test Results	35
9	FCC §15.247(b)(3) – Maximum Output Power.....	39
9.1	Applicable Standard	39
9.2	Test Procedure.....	39
9.3	Test Results	40
10	FCC§15.247(d) – 100 kHz Bandwidth of Frequency Band Edge	41
10.1	Applicable Standard	41
10.2	Test Procedure.....	41
10.3	Test Results	41

11	FCC §15.247(e) – Power Spectral Density	44
11.1	Applicable Standard	44
11.2	Test Procedure	44
11.3	Test Results	44

1 General Information

1.1 Product Description for Equipment under Test (EUT)

Applicant	Taisync Technology Inc.
	2051 Junction Ave. Ste 115 San Jose California 95131 United States
Brand(Trade) Name	Viulinx
Product (Equipment)	2.4GHz HD Wireless Link
Main Model Name	DN2400F-B01P-01
Series Model Name	N/A
Model Discrepancy	N/A
Frequency Range	2410 ~ 2470 MHz
Maximum Conducted Peak Output Power	Antenna 1: 28.60 dBm Antenna 2: 26.43 dBm
Modulation Technique	OFDM
Power Operation (Voltage Range)	24Vdc
Received Date	2025/11/25

*All measurement and test data in this report was gathered from production sample serial number:

RXZ251125069-1 , RXZ251125069-2 (Assigned by BACL, New Taipei Laboratory).

1.2 Objective

This report is prepared on behalf of *Taisync Technology Inc.* in accordance with Part 2, Subpart J, Part 15, Subparts A and C of the Federal Communication Commission's rules.

1.3 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
KDB 558074 D01 15.247 Meas Guidance v05r02

1.4 Statement

Decision Rule: No, (The test results do not include MU judgment)

1. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)
2. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.
3. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.
4. The determination of the test results does not require consideration of the uncertainty of the measurement, unless the assessment is required by customer agreement, regulation or standard document specification.
5. Bay Area Compliance Laboratories Corp. (New Taipei Laboratory) is not responsible for the authenticity of the information provided by the applicant that affects the test results.

1.5 Measurement Uncertainty

Parameter		Uncertainty
AC Mains		+/- 3.02 dB
RF output power, conducted		+/- 0.57 dB
Power Spectral Density, conducted		+/- 0.60 dB
Occupied Bandwidth		+/- 0.09 %
Unwanted Emissions, conducted		+/- 1.09 dB
Emissions, radiated	9 kHz~30 MHz	+/- 3.20 dB
	30 MHz~1 GHz	+/- 3.30 dB
	1 GHz~18 GHz	+/- 5.14 dB
	18 GHz~40 GHz	+/- 4.75 dB
Temperature		+/- 0.76 °C
Humidity		+/- 0.41 %

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.

1.6 Environmental Conditions

Test Site	Test Date	Temperature (°C)	Relative Humidity (%)	Test Engineer
AC Line Conducted Emissions	2025/12/9	23.7	53	Jing
Radiation Spurious Emissions	2025/11/26~2025/12/1	22~23.2	50~67	Toney
Duty Cycle	2025/12/2	25.1	52	Victor
Conducted Spurious Emissions	2025/12/2	25.1	52	Victor
Emission Bandwidth	2025/12/2	25.1	52	Victor
Maximum Output Power	2025/12/2	25.1	52	Victor
100 kHz Bandwidth of Frequency Band Edge	2025/12/2	25.1	52	Victor
Power Spectral Density	2025/12/2	25.1	52	Victor

1.7 Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (New Taipei Laboratory) to collect test data is located on

☒ 70, Lane 169, Sec. 2, Datong Road, Xizhi Dist., New Taipei City 221, Taiwan, R.O.C.

Bay Area Compliance Laboratories Corp. (New Taipei Laboratory) is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 3732) and the FCC designation No.TW3732 under the Mutual Recognition Agreement (MRA) in FCC Test.

2 System Test Configuration

2.1 Description of Test Configuration

For SRD mode, there are totally 3 channels.

Channel	Frequency (MHz)
1	2410
2	2444
3	2470

2.2 EUT Exercise Software

The test software was used “192.168.199.18/calibration.html”

The system was configured for testing in engineering mode, which was provided by Applicant.

This product can be switched between a transmitter module and a receiver module via software control.

The transmitter module and a receiver module have identical hardware and RF characteristics, so the output power of both modules was tested.

Test Channel		Low	Middle	High
Power Level Setting	Antenna 1	default	default	default
	Antenna 2	default	default	default

The device does not support MIMO mode.

2.3 Equipment Modifications

No modification was made to the EUT.

2.4 Test Mode

Full System (model: DN2400F-B01P-01) Transmitter module for all test item.

Serial number RXZ251125069-1: Transmitter module.

Serial number RXZ251125069-2: Receiver module.

2.5 Support Equipment List and Details

Description	Manufacturer	Model Number
NB	DELL	E6410
DC Power Supply	KIKUSUI	PMC35-2
Fixture	GZU	USB->TTL V2.2
Load	BACL	200W10R

2.6 External Cable List and Details

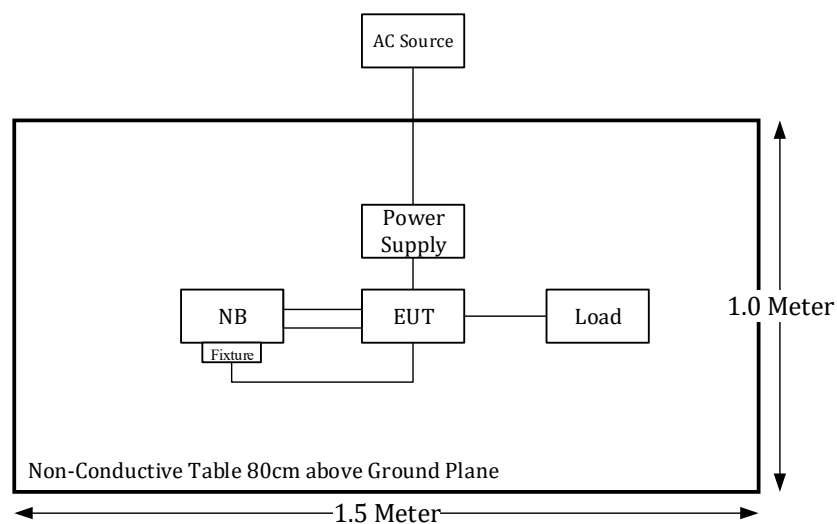
Description	Manufacturer	Model Number
Power cable	Taisync	XT60H-M
RJ45 cable	Taisync	V1.0
Data cable	Taisync	V1.0
SBUS cable	Taisync	V1.0

2.7 Block Diagram of Test Setup

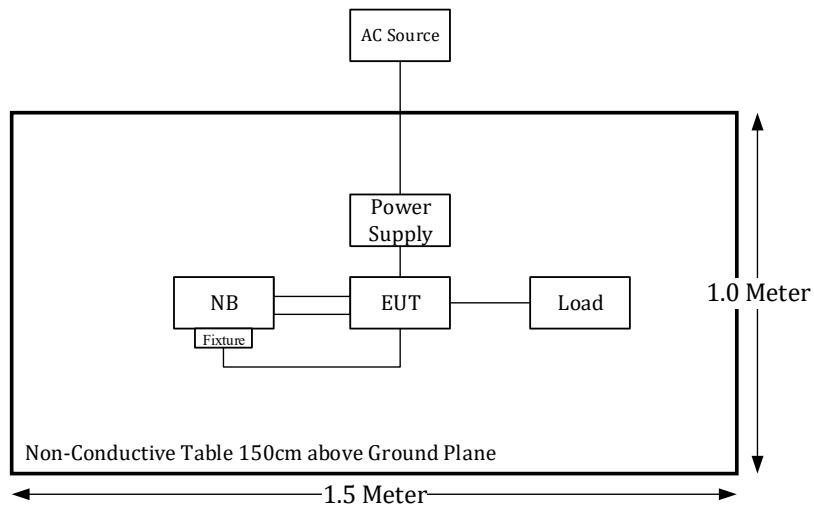
See test photographs attached in setup photos for the actual connections between EUT and support equipment.

Radiation:

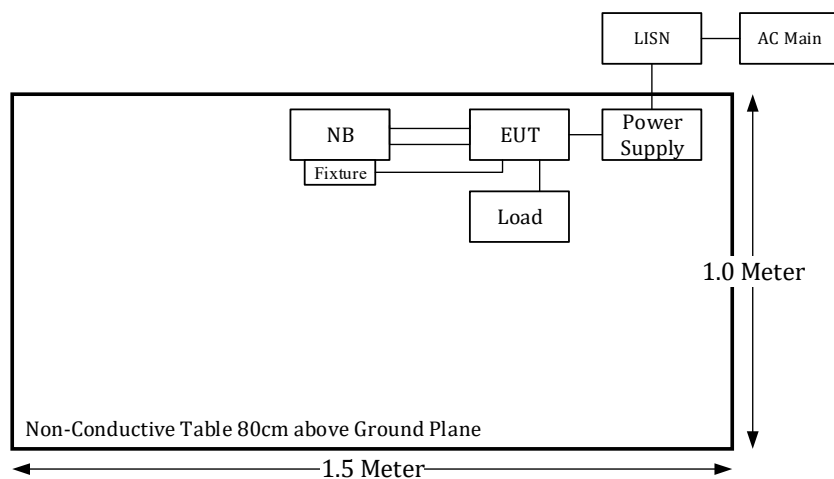
Below 1GHz:



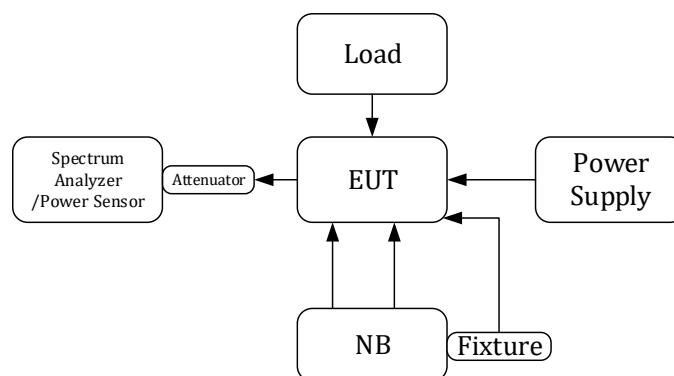
Above 1GHz:



Conduction:



Conducted:



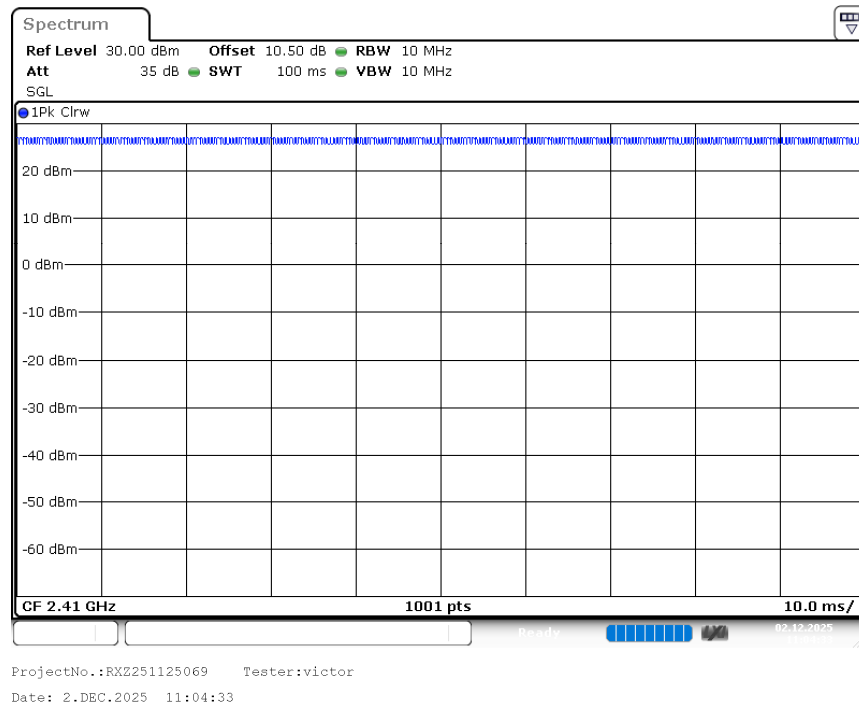
2.8 Duty Cycle

The duty cycle as below:

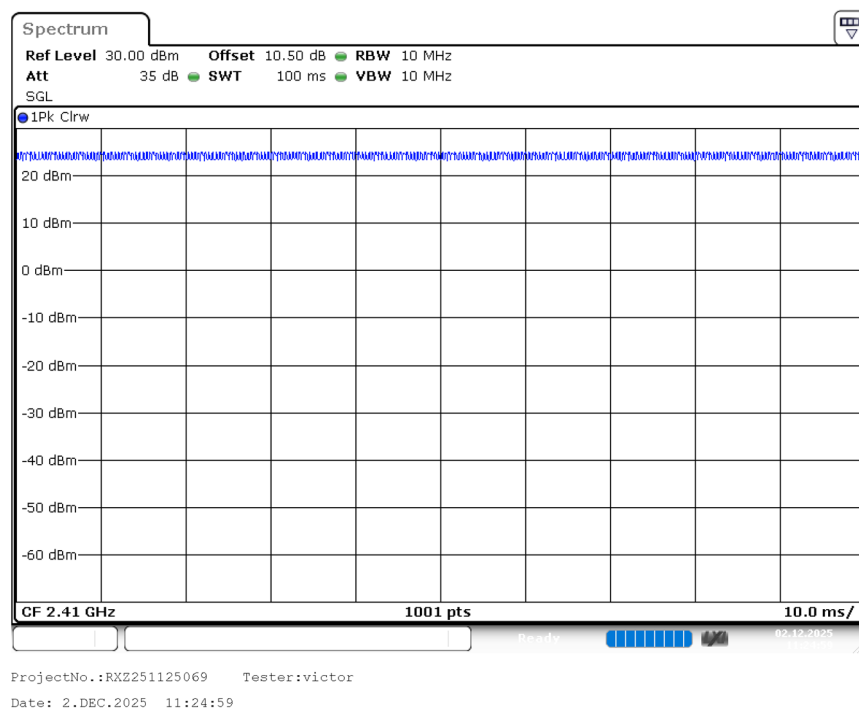
Radio Mode	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	1/T (kHz)	1/T VBW setting (kHz)
Antenna 1	100	100	100	/	0.01
Antenna 2	100	100	100	/	0.01

Please refer to the following plots.

Antenna 1



Antenna 2



3 Summary of Test Results

FCC Rules	Description of Test	Results
§15.203	Antenna Requirement	Compliance
§15.207(a)	AC Line Conducted Emissions	Compliance
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliance
§15.247(a)(2)	6 dB Emission Bandwidth	Compliance
§15.247(b)(3)	Maximum Peak Output Power	Compliance
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliance
§15.247(e)	Power Spectral Density	Compliance

4 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due Date
AC Line Conduction Room (CON-A)					
LISN	Rohde & Schwarz	ENV216	101612	2025/2/17	2026/2/17
EMI Test Receiver	Rohde & Schwarz	ESW	100947	2025/5/28	2026/5/28
RF Cable	EMEC	EM-CB5D	1	2025/6/30	2026/6/30
Software	AUDIX	E3	V9.150826k	N.C.R	N.C.R
Radiation 3M Room - Below 1GHz (966-A)					
Active Loop Antenna	ETS-Lindgren	6502	35796	2025/3/27	2026/3/27
Bilog Antenna with 6 dB Attenuator	SUNOL SCIENCES & MINI-CIRCUITS	JB6/UNAT-6+	A050115/1554 2_01	2025/1/16	2026/1/16
Preamplifier	Sonoma	310N	130602	2025/6/17	2026/6/17
EMI Test Receiver	Rohde & Schwarz	ESR3	102415	2025/3/19	2026/3/19
Microflex Cable	UTIFLEX	UFB197C-1-2362-70U-70U	225757-001	2024/12/20	2025/12/20
Coaxial Cable	UTIFLEX	UFB311A-Q-1440-300300	220490-006	2024/12/20	2025/12/20
Coaxial Cable	COMMATE	PEWC	8Dr	2024/12/20	2025/12/20
Cable	EMC	EMC105-SM-SM-10000	201003	2024/12/20	2025/12/20
Coaxial Cable	JUNFLON	J12J102248-00-B-5	AUG-07-15-044	2024/12/20	2025/12/20
Software	AUDIX	E3	18621a	N.C.R	N.C.R
Radiation 3M Room - Above 1GHz (966-A)					
Horn Antenna	ETS-Lindgren	3115	40736	2025/5/6	2026/5/6
Horn Antenna	ETS-Lindgren	3116	62638	2025/9/4	2026/9/4
Preamplifier	Channel	ERA-100M-18G-01D1748	EC2300051	2025/4/10	2026/4/10
Preamplifier	BACL	BACL-1313-A1840	4011511	2025/2/12	2026/2/12
Spectrum Analyzer	Rohde & Schwarz	FSV40	101939	2025/3/27	2026/3/27
Microflex Cable	UTIFLEX	UFB197C-1-2362-70U-70U	225757-001	2024/12/20	2025/12/20
Coaxial Cable	UTIFLEX	UFB311A-Q-1440-300300	220490-006	2024/12/20	2025/12/20
Coaxial Cable	COMMATE	PEWC	8Dr	2024/12/20	2025/12/20
Cable	EMC	EMC105-SM-SM-10000	201003	2024/12/20	2025/12/20
Coaxial Cable	JUNFLON	J12J102248-00-B-5	AUG-07-15-044	2024/12/20	2025/12/20
Coaxial Cable	ROSNOI	K1K50-UP0264-K1K50-450CM	160309-1	2025/1/21	2026/1/21
Microflex Cable	ROSNOI	K1K50-UP0264-K1K50-80CM	160309-2	2025/1/21	2026/1/21
Band-reject filter	Woken	STI15-9831	STI15-9831-1	2025/10/17	2026/10/17
High-pass filter	XINGBOKEJI	XBLBQ-GTA54	200108-3-2	2025/10/17	2026/10/17
Software	AUDIX	E3	18621a	N.C.R	N.C.R

Conducted Room					
Spectrum Analyzer	Rohde & Schwarz(R&S)	FSV40	101204	2025/6/4	2026/6/4
Cable	UTIFLEX	UFA210A	9435	2025/9/30	2026/9/30
Power Sensor	Boonton	RTP5006	11037	2025/5/16	2026/5/16
Attenuator	MCL	BW-S10W5+	1419	2025/3/6	2026/3/6

***Statement of Traceability:** BACL Corp. attests that all of the calibrations on the equipment items listed above were traceable to the SI System of Units via the R.O.C. Center for Measurement Standards of the Electronics Testing Center, Taiwan (ETC) or to another internationally recognized National Metrology Institute (NMI), and were compliant with the current Taiwan Accreditation Foundation (TAF) requirements.

5 FCC §15.203 – Antenna Requirements

5.1 Applicable Standard

According to § 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 user of a standard antenna jack or electrical connector is prohibited.

5.2 Antenna List and Details

Antenna Type	Antenna Gain
Dipole	5.5 dBi

Unit uses a unique coupling to the intentional radiator.

Result: Compliance

6 FCC §15.207(a) – AC Line Conducted Emissions

6.1 Applicable Standard

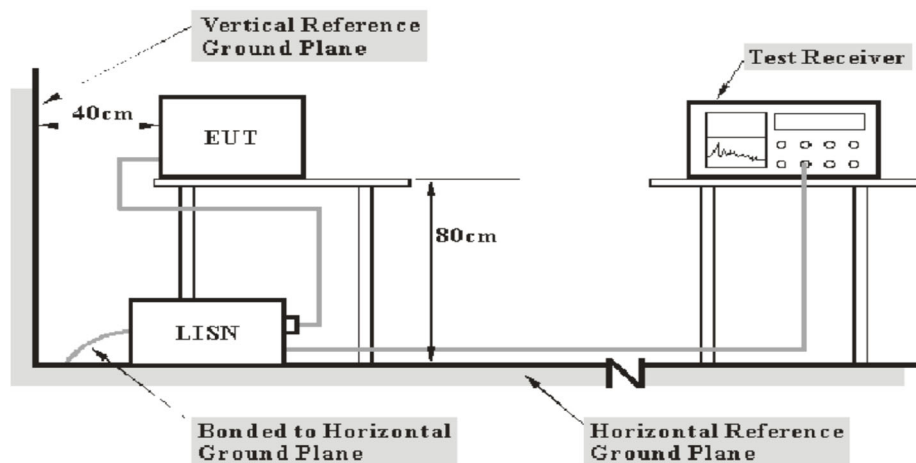
According to §15.207

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequencies ranges.

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-Peak	Average
0.15-0.5	66 to 56 ^{Note 1}	56 to 46 ^{Note 1}
0.5-5	56	46
5-30	60	50

Note 1: Decreases with the logarithm of the frequency.

6.2 EUT Setup



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2020 measurement procedure. The specification used was with the FCC Part 15.207 limits.

6.3 EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150kHz to 30MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations

Frequency Range	IF B/W
150kHz – 30MHz	9kHz

Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp.
(New Taipei Laboratory)

6.4 Test Procedure

During the conducted emission test, the DC Power Supply was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

6.5 Corrected Factor & Over Limit Calculation

The factor is calculated by adding LISN/ISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

$$\text{Factor} = \text{LISN VDF} + \text{Cable Loss} + \text{Transient Limiter Attenuation}$$

The “Over Limit” column of the following data tables indicates the degree of compliance with the applicable limit.

For example, an over limit of -7 dB means the emission is 7 dB below the limit. The equation for Over Limit calculation is as follows:

$$\text{Over Limit} = \text{Result} - \text{Limit Line}$$

6.6 Test Results

Test Mode: Transmitting

Main: AC120 V, 60 Hz

(Worst case is Antenna 1, Low channel)

Line									Neutral								
Description: RBW:9kHz/VBW:30kHz 2025-12-09									Description: RBW:9kHz/VBW:30kHz 2025-12-09								
No.	Frequency	Reading	Correct Factor	Result	Limit	Over limit	Remark	Phase	No.	Frequency	Reading	Correct Factor	Result	Limit	Over limit	Remark	Phase
	MHz	dBuV	dB	dBuV	dBuV	dB				MHz	dBuV	dB	dBuV	dBuV	dB		
1	3.922	14.19	9.84	24.03	56.00	-31.97	QP	Line	1	0.150	19.32	9.74	29.06	66.00	-36.94	QP	Neutral
2	3.922	8.19	9.84	18.04	46.00	-27.96	Average	Line	2	0.150	0.89	9.74	10.63	56.00	-45.37	Average	Neutral
3	4.202	14.93	9.85	24.78	56.00	-31.22	QP	Line	3	0.367	9.00	9.70	18.70	58.56	-39.86	QP	Neutral
4	4.202	10.03	9.85	19.88	46.00	-26.12	Average	Line	4	0.367	1.39	9.70	11.09	48.56	-37.47	Average	Neutral
5	4.454	16.41	9.86	26.27	56.00	-29.73	QP	Line	5	0.644	13.15	9.71	22.86	56.00	-33.14	QP	Neutral
6	4.454	10.66	9.86	20.51	46.00	-25.49	Average	Line	6	0.644	8.16	9.71	17.86	46.00	-28.14	Average	Neutral
7	4.797	17.55	9.87	27.42	56.00	-28.58	QP	Line	7	3.547	13.54	9.80	23.34	56.00	-32.66	QP	Neutral
8	4.797	11.60	9.87	21.47	46.00	-24.53	Average	Line	8	3.547	8.08	9.80	17.88	46.00	-28.12	Average	Neutral
9	7.977	21.01	9.93	30.94	60.00	-29.06	QP	Line	9	8.062	19.81	9.90	29.71	60.00	-30.29	QP	Neutral
10	7.977	14.03	9.93	23.96	50.00	-26.04	Average	Line	10	8.062	13.35	9.90	23.26	50.00	-26.74	Average	Neutral
11	8.235	20.44	9.94	30.37	60.00	-29.63	QP	Line	11	8.456	18.48	9.91	28.39	60.00	-31.61	QP	Neutral
12	8.235	13.49	9.94	23.43	50.00	-26.57	Average	Line	12	8.456	11.44	9.91	21.35	50.00	-28.65	Average	Neutral

Note:

Result = Reading + Factor

Over Limit = Result – Limit Line

Factor = (LISN, ISN, PLC or current probe) Factor + Cable Loss + Attenuator

7 FCC §15.209, §15.205 , §15.247(d) – Spurious Emissions

7.1 Applicable Standard

As per FCC §15.35(d): Unless otherwise specified, on any frequency or frequencies above 1000 MHz, the radiated emission limits are based on the use of measurement instrumentation employing an average detector function. Unless otherwise specified, measurements above 1000 MHz shall be performed using a minimum resolution bandwidth of 1MHz.

As Per FCC §15.205(a) except as show in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 – 0.110	16.42 – 16.423	608 – 614	4.5 – 5.15
0.495 – 0.505	16.69475 – 16.69525	960 – 1240	5.35 – 5.46
2.1735 – 2.1905	16.80425 – 16.80475	1300 – 1427	7.25 – 7.75
4.125 – 4.128	25.5 – 25.67	1435 – 1626.5	8.025 – 8.5
4.17725 – 4.17775	37.5 – 38.25	1645.5 – 1646.5	9.0 – 9.2
4.20725 – 4.20775	73 – 74.6	1660 – 1710	9.3 – 9.5
6.215 – 6.218	74.8 – 75.2	1718.8 – 1722.2	10.6 – 12.7
6.26775 – 6.26825	108 – 121.94	2200 – 2300	13.25 – 13.4
6.31175 – 6.31225	123 – 138	2310 – 2390	14.47 – 14.5
8.291 – 8.294	149.9 – 150.05	2483.5 – 2500	15.35 – 16.2
8.362 – 8.366	156.52475 – 156.52525	2690 – 2900	17.7 – 21.4
8.37625 – 8.38675	156.7 – 156.9	3260 – 3267	22.01 – 23.12
8.41425 – 8.41475	162.0125 – 167.17	3.332 – 3.339	23.6 – 24.0
12.29 – 12.293	167.72 – 173.2	3.3458 – 3.358	31.2 – 31.8
12.51975 – 12.52025	240 – 285	3.600 – 4.400	36.43 – 36.5
12.57675 – 12.57725	322 – 335.4		Above 38.6
13.36 – 13.41	399.9 – 410		

As per FCC §15.209(a): Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (micro volts/meter)	Measurement Distance (meters)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100**	3
88 - 216	150**	3
216 - 960	200**	3
Above 960	500	3

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

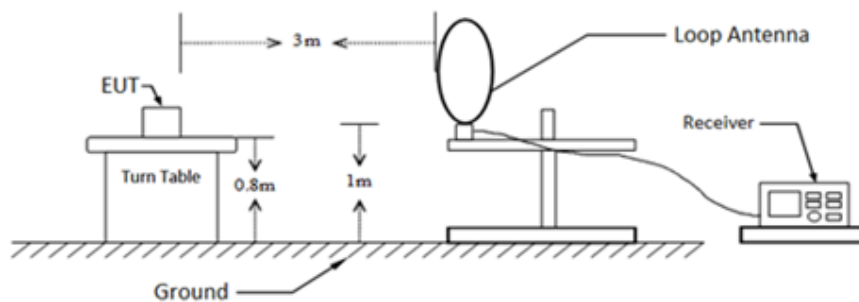
According to ANSI C63.10-2020, section 5.3.3

Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field, and the emissions to be measured can be detected by the measurement equipment (see 4.3.4). Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. Measurements from 18 GHz to 40 GHz are typically made at distances significantly less than 3 m from the EUT. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade of distance (inverse of linear distance for field-strength measurements or inverse of linear distance-squared for power-density measurements).

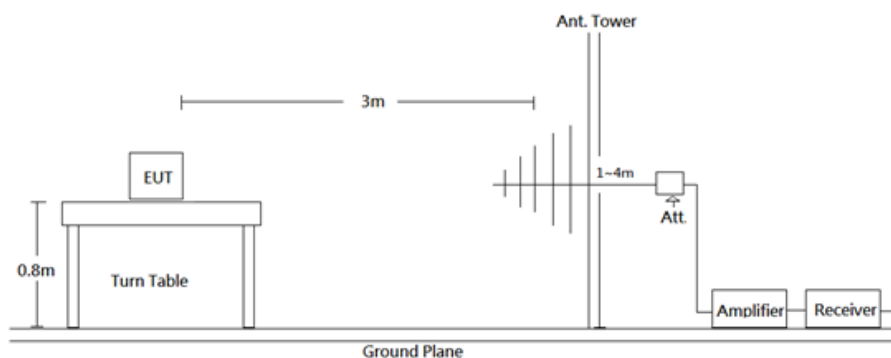
As per FCC §15.247 (d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the 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)).

7.2 EUT Setup

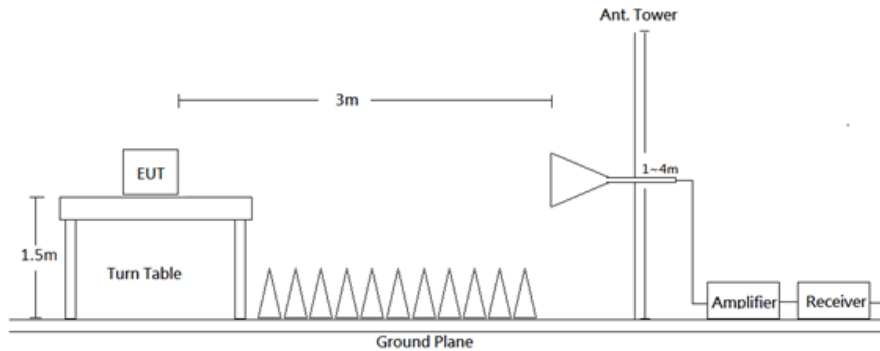
9kHz-30MHz:



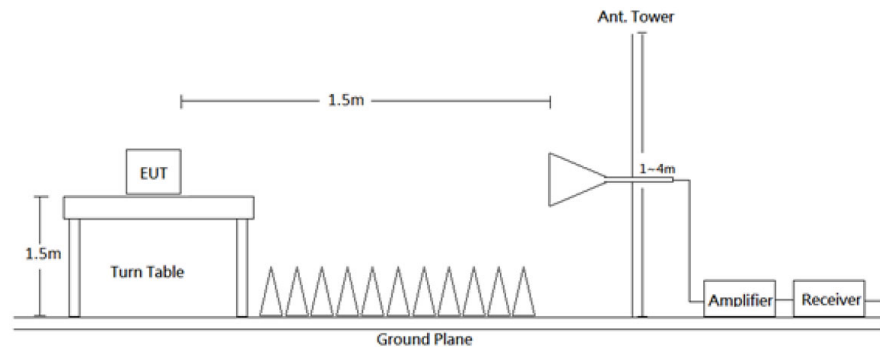
30MHz-1GHz:



1-18 GHz:



18-26.5 GHz:



Radiated 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 Part 15.209 and FCC 15.247 Limits.

7.3 EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 26.5 GHz. During the radiated emission test, the EMI test receiver was set with the following configurations measurement method 6.3 in ANSI C63.10.

Frequency Range	RBW	Video B/W	IF B/W	Duty cycle	Measurement method	Detector
9 kHz - 150 kHz	300 Hz	1 kHz	200 Hz	/	QP/AV	QP/AV
150 kHz - 30 MHz	10 kHz	30 kHz	9 kHz	/	QP/AV	QP/AV
30-1000 MHz	100 kHz	300 kHz	/	/	PK	PK
	/	/	120 kHz	/	QP	QP
Above 1 GHz	Pre-scan :					
	1 MHz	3 MHz	/	/	PK	PK
	1 MHz	1 kHz	/	>98%	Ave	PK
	1 MHz	$\geq 1/T_{on}$, not less than 1 kHz	/	<98%	Ave	PK
	Final measurement for emission identified during pre-scan :					
	1 MHz	3 MHz	/	/	PK	PK
	1 MHz	10 Hz	/	>98%	Ave	PK
	1 MHz	$\geq 1/T_{on}$	/	<98%	Ave	PK

Note: T is minimum transmission duration

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

7.4 Test Procedure

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

All data was recorded in Quasi-peak and average detector mode from 9 kHz to 30 MHz, Quasi-peak detector mode from 30 MHz to 1 GHz and PK and average detector modes for frequencies above 1 GHz.

For Conducted Spurious Emissions:

According to ANSI C63.10-2020, section 11.11

- a) Set the frequency range to be measured.
- 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.

7.5 Corrected Factor & Margin Calculation

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

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

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

$$\text{Margin} = \text{Level} - \text{Limit}$$

7.6 Test Results

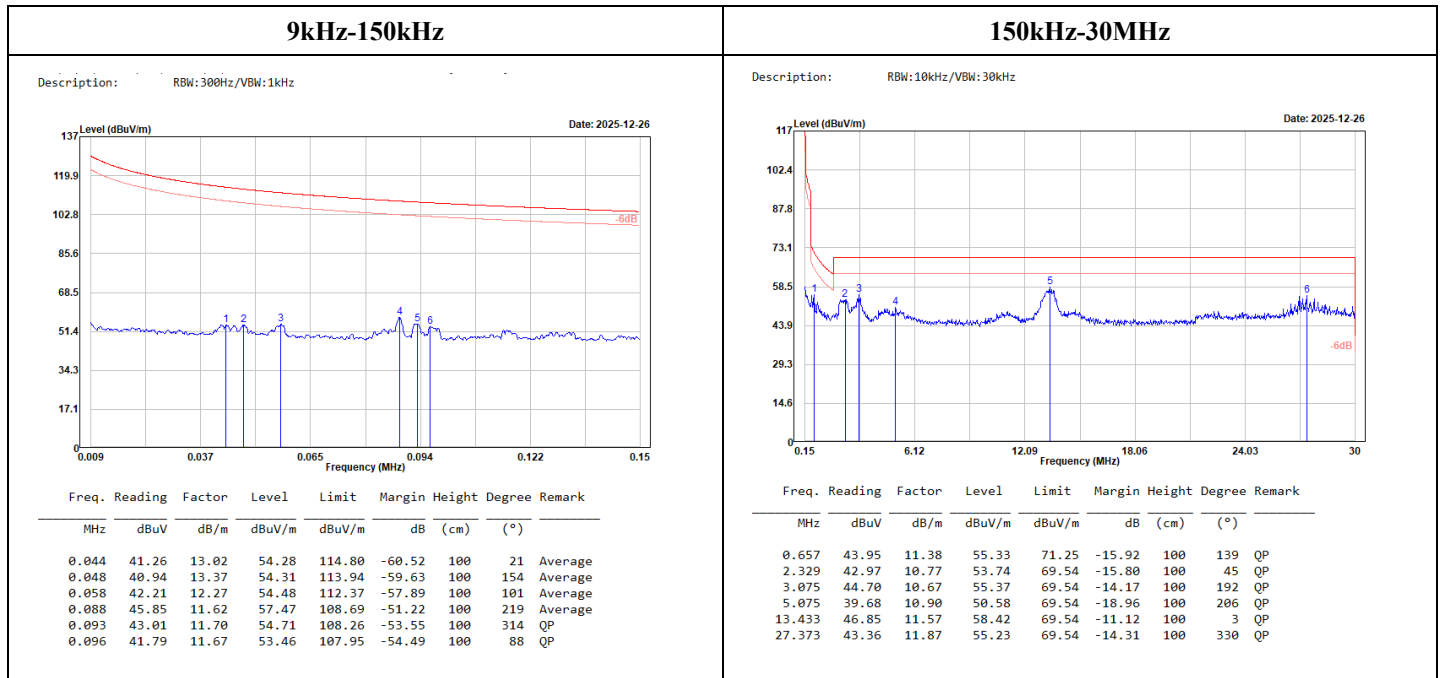
Test Mode: Transmitting

(Pre-scan with three orthogonal axis, and worse case as Z axis.)

9kHz-30MHz:

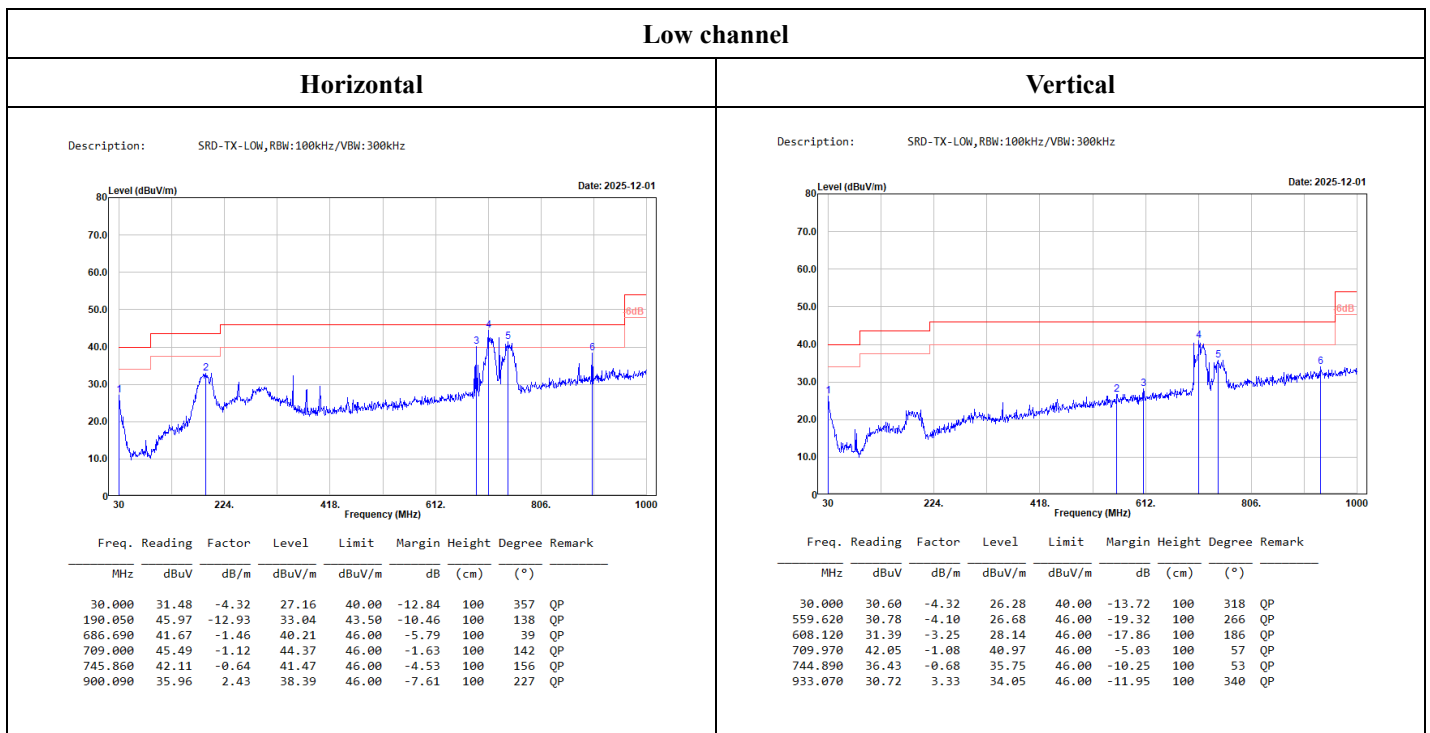
(Worst case is Antenna 1, low channel)

(Pre-scan using three directional polarities, worst case as parallel.)



30MHz-1GHz:

(Worst case is Antenna 1)

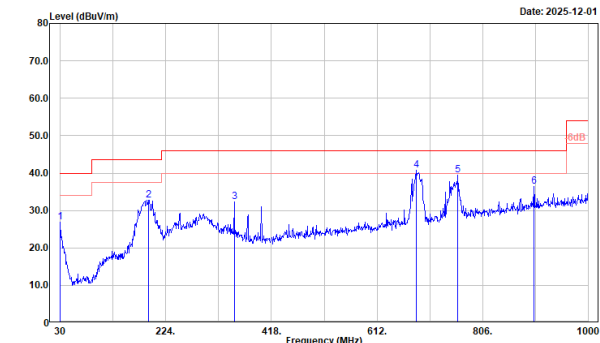


Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp.
(New Taipei Laboratory)

Middle channel

Horizontal

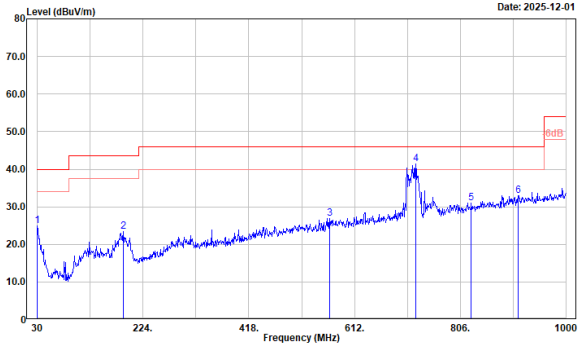
Description: SRD-TX-Middle,RBW:100kHz/VBW:300kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
30.000	31.25	-4.32	26.93	40.00	-13.07	100	1	QP
191.990	45.51	-12.72	32.79	43.50	-10.71	100	127	QP
350.100	41.40	-9.00	32.40	46.00	-13.60	100	124	QP
683.780	42.31	-1.48	40.83	46.00	-5.17	100	93	QP
760.410	39.92	-0.47	39.45	46.00	-6.55	100	353	QP
900.090	33.97	2.43	36.40	46.00	-9.60	100	219	QP

Vertical

Description: SRD-TX-Middle,RBW:100kHz/VBW:300kHz

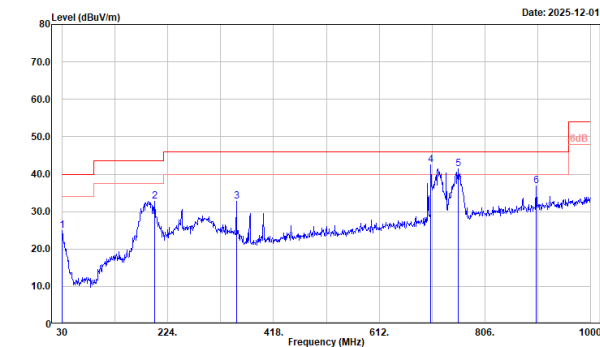


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
30.000	29.20	-4.32	24.88	40.00	-15.12	100	355	QP
188.110	36.44	-13.07	23.37	43.50	-20.13	100	237	QP
566.410	30.61	-3.73	26.88	46.00	-19.12	100	161	QP
724.520	42.36	-1.02	41.34	46.00	-4.66	100	45	QP
826.370	30.08	0.95	31.03	46.00	-14.97	100	183	QP
911.730	30.37	2.63	33.00	46.00	-13.00	100	121	QP

High channel

Horizontal

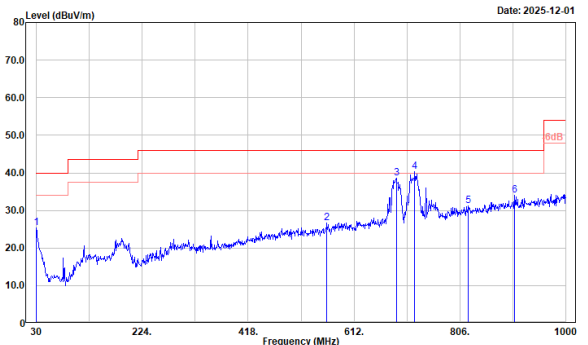
Description: SRD-TX-High,RBW:100kHz/VBW:300kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
30.000	29.18	-4.32	24.86	40.00	-15.14	100	197	QP
199.750	43.93	-11.16	32.77	43.50	-10.73	100	0	QP
350.100	41.78	-9.00	32.78	46.00	-13.22	100	124	QP
707.060	43.75	-1.21	42.54	46.00	-3.46	100	101	QP
757.500	41.79	-0.43	41.36	46.00	-4.64	100	151	QP
900.090	34.45	2.43	36.88	46.00	-9.12	100	227	QP

Vertical

Description: SRD-TX-High,RBW:100kHz/VBW:300kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
30.000	29.72	-4.32	25.40	40.00	-14.60	100	290	QP
562.530	30.55	-3.96	26.59	46.00	-19.41	100	191	QP
689.600	40.05	-1.50	38.55	46.00	-7.45	100	68	QP
723.550	41.34	-1.02	40.32	46.00	-5.68	100	60	QP
821.520	30.31	0.90	31.21	46.00	-14.79	100	102	QP
905.910	31.52	2.57	34.09	46.00	-11.91	100	0	QP

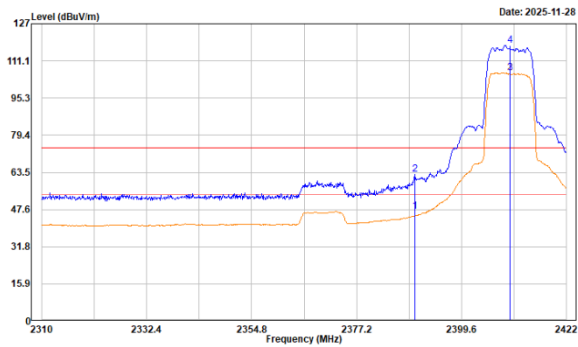
Level = Reading + Factor.

Margin = Level - Limit.

Factor = Antenna Factor + Cable Loss - Amplifier Gain.

Band-Edge:**Antenna 1****Low channel****Horizontal**

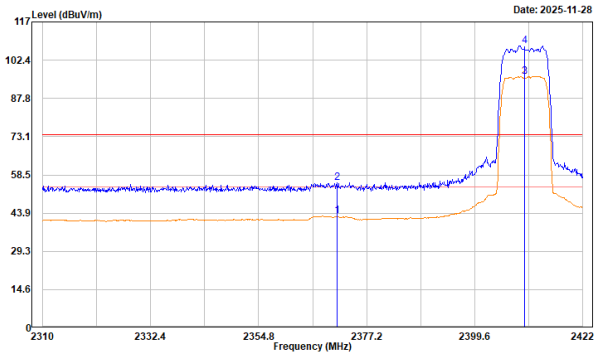
Description: SRD-TX-2410,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:1kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2389.632	57.62	-10.73	46.89	54.00	-7.11	386	178	Average
2389.632	73.31	-10.73	62.58	74.00	-11.42	386	178	Peak
2410.000	116.86	-10.71	106.15			386	178	Average
2410.000	128.55	-10.71	117.84			386	178	Peak

Vertical

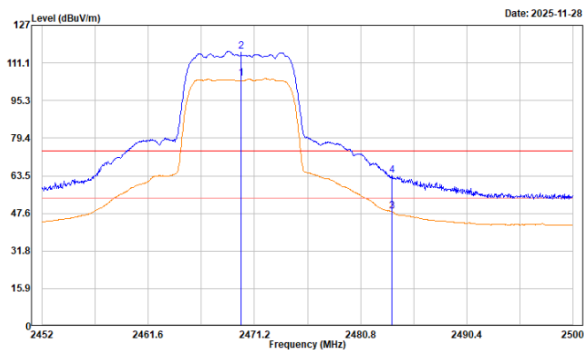
Description: SRD-TX-2410,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:1kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2371.040	53.81	-11.11	42.70	54.00	-11.30	301	284	Average
2371.040	66.72	-11.11	55.61	74.00	-18.39	301	284	Peak
2410.000	106.90	-10.71	96.19			301	284	Average
2410.000	118.64	-10.71	107.93			301	284	Peak

High channel**Horizontal**

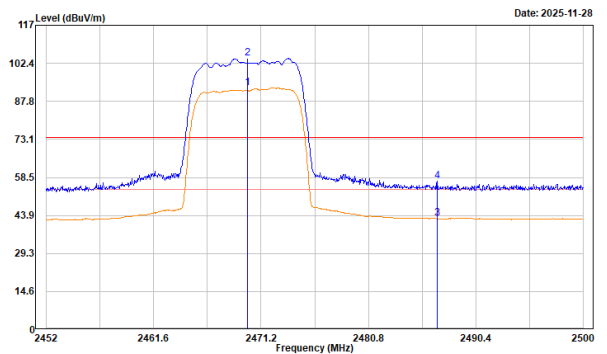
Description: SRD-TX-2470,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:1kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2470.000	114.80	-10.28	104.52			326	358	Average
2470.000	126.25	-10.28	115.97			326	358	Peak
2483.632	58.68	-10.12	48.56	54.00	-5.44	326	358	Average
2483.632	73.71	-10.12	63.59	74.00	-10.41	326	358	Peak

Vertical

Description: SRD-TX-2470,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:1kHz



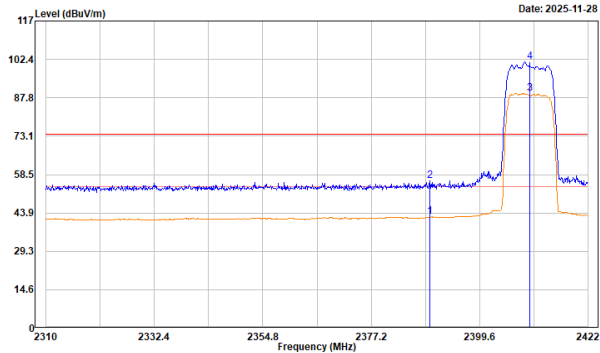
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2470.000	103.14	-10.28	92.86			391	55	Average
2470.000	114.46	-10.28	104.18			391	55	Peak
2486.944	53.01	-10.10	42.91	54.00	-11.09	391	55	Average
2486.944	67.06	-10.10	56.96	74.00	-17.04	391	55	Peak

Antenna 2

Low channel

Horizontal

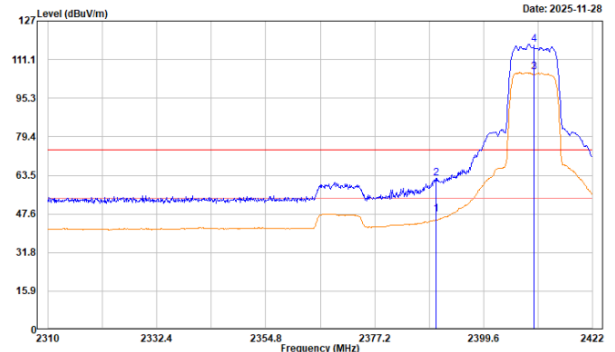
Description: SRD-TX-2410,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:1kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2389.296	53.09	-10.73	42.36	54.00	-11.64	222	161	Average
2389.296	66.95	-10.73	56.22	74.00	-17.78	222	161	Peak
2410.000	100.14	-10.71	89.43			222	161	Average
2410.000	112.08	-10.71	101.37			222	161	Peak

Vertical

Description: SRD-TX-2410,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:1kHz

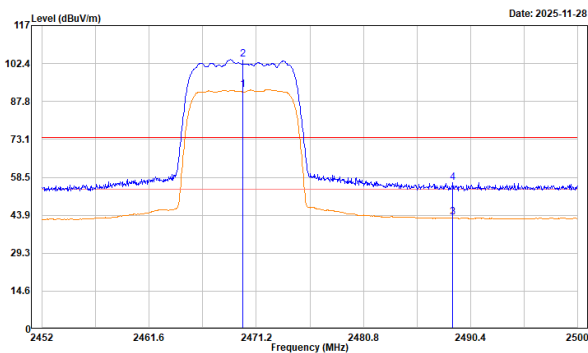


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2389.856	58.38	-10.72	47.66	54.00	-6.34	184	96	Average
2389.856	73.01	-10.72	62.29	74.00	-11.71	184	96	Peak
2410.000	116.56	-10.71	105.85			184	96	Average
2410.000	128.24	-10.71	117.53			184	96	Peak

High channel

Horizontal

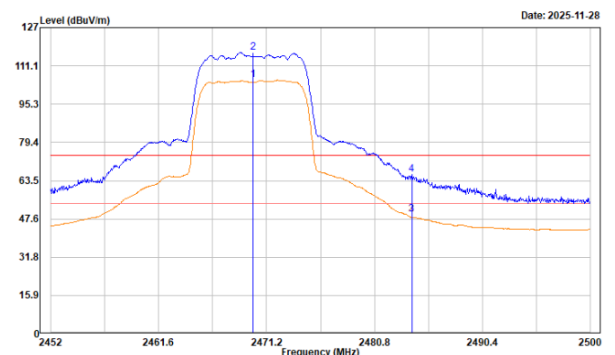
Description: SRD-TX-2470,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:1kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2470.000	102.69	-10.28	92.41			228	63	Average
2470.000	114.15	-10.28	103.87			228	63	Peak
2488.816	53.36	-10.08	43.28	54.00	-10.72	228	63	Average
2488.816	66.52	-10.08	56.44	74.00	-17.56	228	63	Peak

Vertical

Description: SRD-TX-2470,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:1kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2470.000	115.43	-10.28	105.15			195	93	Average
2470.000	126.87	-10.28	116.59			195	93	Peak
2484.112	59.83	-10.12	49.71	54.00	-4.29	195	93	Average
2484.112	76.10	-10.12	65.98	74.00	-8.02	195	93	Peak

Level = Reading + Factor.

Margin = Level - Limit.

Factor = Antenna Factor + Cable Loss - Amplifier Gain.

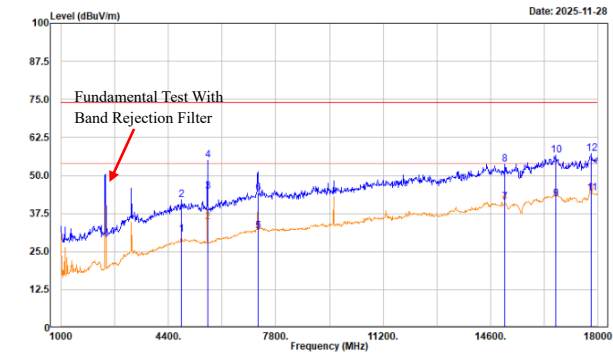
1GHz-18GHz:

Antenna 1

Low channel

Horizontal

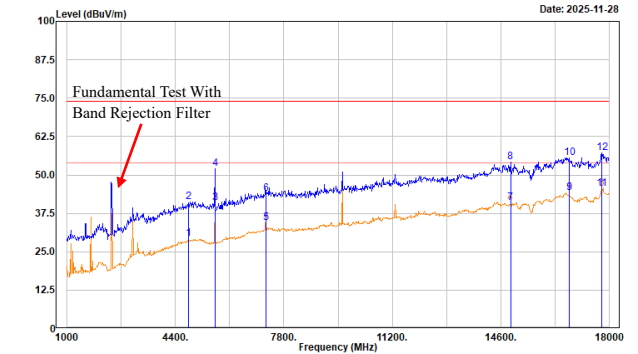
Description: SRD-TX-2410,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:1kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4820.000	34.72	-3.98	30.74	54.00	-23.26	162	204	Average
4820.000	46.04	-3.98	42.06	74.00	-31.94	162	204	Peak
5641.000	49.12	-4.42	44.70	54.00	-9.30	150	102	Average
5641.000	59.53	-4.42	55.11	74.00	-18.89	150	102	Peak
7230.000	31.20	0.49	31.69	54.00	-22.31	105	253	Average
7230.000	43.57	0.49	44.06	74.00	-29.94	105	253	Peak
15059.000	30.93	10.18	41.11	54.00	-12.89	150	213	Average
15059.000	43.56	10.18	53.74	74.00	-20.26	150	213	Peak
16674.000	30.08	12.24	42.32	54.00	-11.68	150	41	Average
16674.000	44.38	12.24	56.62	74.00	-17.38	150	41	Peak
17796.000	31.31	12.93	44.24	54.00	-9.76	150	211	Average
17796.000	44.17	12.93	57.10	74.00	-16.90	150	211	Peak

Vertical

Description: SRD-TX-2410,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:1kHz

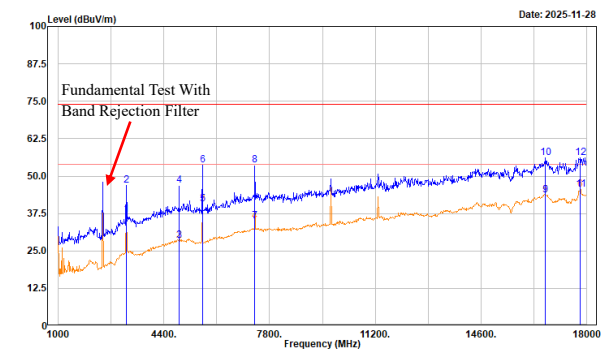


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4820.000	33.23	-3.98	29.25	54.00	-24.75	167	43	Average
4820.000	45.19	-3.98	41.21	74.00	-32.79	167	43	Peak
5641.000	45.47	-4.42	41.05	54.00	-12.95	150	145	Average
5641.000	56.42	-4.42	52.00	74.00	-22.00	150	145	Peak
7230.000	33.87	0.49	34.36	54.00	-19.64	138	62	Average
7230.000	43.38	0.49	43.87	74.00	-30.13	138	62	Peak
14906.000	30.51	10.41	40.92	54.00	-13.08	150	214	Average
14906.000	43.71	10.41	54.12	74.00	-19.88	150	214	Peak
16742.000	31.86	12.19	44.05	54.00	-9.95	150	168	Average
16742.000	43.45	12.19	55.64	74.00	-18.36	150	168	Peak
17762.000	32.92	12.69	45.61	54.00	-8.39	150	307	Average
17762.000	44.45	12.69	57.14	74.00	-16.86	150	307	Peak

Middle channel

Horizontal

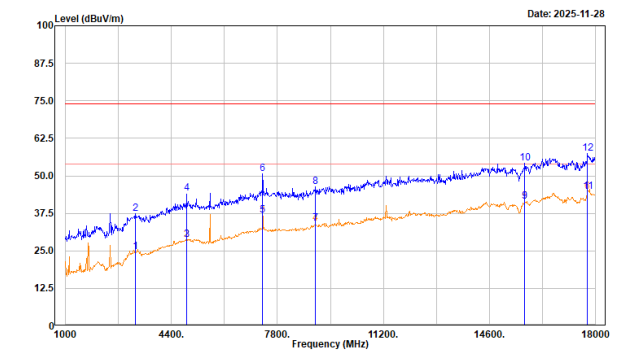
Description: SRD-TX-2444,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:1kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
3193.000	44.31	-7.24	37.07	54.00	-16.93	150	165	Average
3193.000	54.05	-7.24	46.81	74.00	-27.19	150	165	Peak
4888.000	32.36	-3.85	28.51	54.00	-25.49	124	137	Average
4888.000	50.66	-3.85	46.81	74.00	-27.19	124	137	Peak
5641.000	45.10	-4.42	40.68	54.00	-13.32	113	252	Average
5641.000	58.06	-4.42	53.64	74.00	-20.36	113	252	Peak
7332.000	34.04	0.86	34.90	54.00	-19.10	150	133	Average
7332.000	52.78	0.86	53.64	74.00	-20.36	150	133	Peak
16674.000	31.45	12.24	43.69	54.00	-10.31	150	64	Average
16674.000	43.73	12.24	55.97	74.00	-18.03	150	64	Peak
17796.000	32.49	12.93	45.42	54.00	-8.58	150	192	Average
17796.000	43.16	12.93	56.09	74.00	-17.91	150	192	Peak

Vertical

Description: SRD-TX-2444,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:1kHz

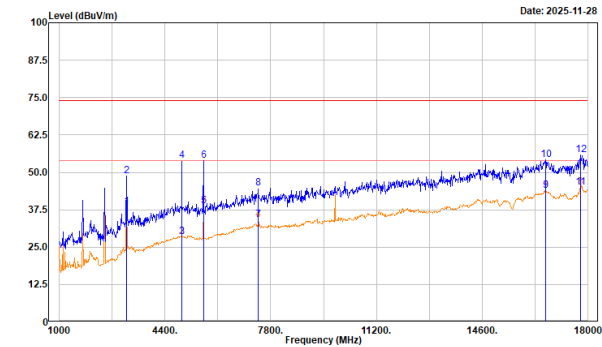


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
3244.000	31.99	-7.41	24.58	54.00	-29.42	150	231	Average
3244.000	44.72	-7.41	37.31	74.00	-36.69	150	231	Peak
4888.000	32.55	-3.85	28.70	54.00	-25.30	166	214	Average
4888.000	48.15	-3.85	44.30	74.00	-29.70	166	214	Peak
5641.000	35.89	0.86	36.75	54.00	-17.25	130	235	Average
5641.000	49.80	0.86	50.66	74.00	-23.34	130	235	Peak
9024.000	31.41	2.84	34.25	54.00	-19.75	150	166	Average
9024.000	43.52	2.84	46.36	74.00	-27.64	150	166	Peak
15739.000	32.45	8.89	41.34	54.00	-12.66	150	154	Average
15739.000	45.31	8.89	54.20	74.00	-19.80	150	154	Peak
17745.000	32.09	12.60	44.69	54.00	-9.31	150	31	Average
17745.000	44.80	12.60	57.40	74.00	-16.60	150	31	Peak

High channel

Horizontal

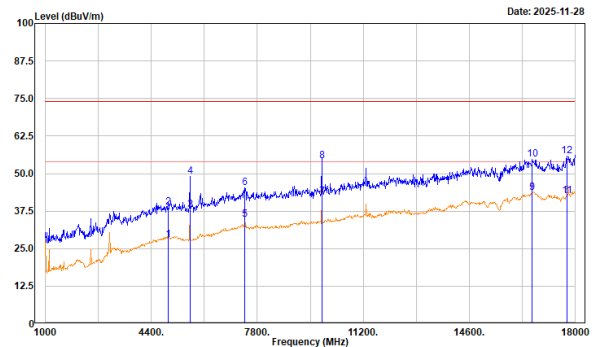
Description: SRD-TX-2470,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:1kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
3159.000	46.07	-7.59	38.48	54.00	-15.52	150	161	Average
3159.000	56.35	-7.59	48.76	74.00	-25.24	150	161	Peak
4940.000	32.36	-3.77	28.59	54.00	-25.41	110	22	Average
4940.000	57.68	-3.77	53.91	74.00	-20.09	110	22	Peak
5641.000	43.06	-4.42	38.64	54.00	-15.36	150	34	Average
5641.000	58.33	-4.42	53.91	74.00	-20.09	150	34	Peak
7410.000	33.28	0.79	34.07	54.00	-19.93	166	243	Average
7410.000	43.86	0.79	44.65	74.00	-29.35	166	243	Peak
16640.000	31.77	12.23	44.00	54.00	-10.00	150	143	Average
16640.000	41.97	12.23	54.20	74.00	-19.80	150	143	Peak
17762.000	32.41	12.69	45.10	54.00	-8.90	150	266	Average
17762.000	43.22	12.69	55.91	74.00	-18.09	150	266	Peak

Vertical

Description: SRD-TX-2470,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:1kHz



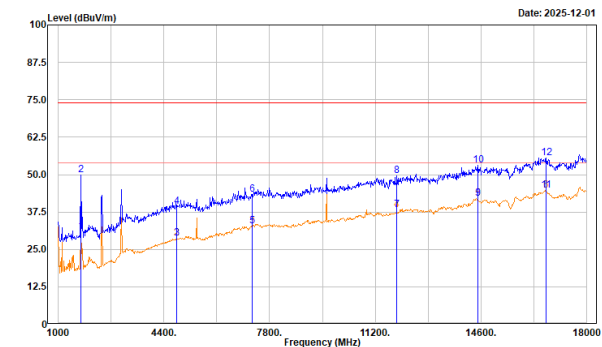
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4940.000	31.81	-3.77	28.04	54.00	-25.96	164	49	Average
4940.000	42.43	-3.77	38.66	74.00	-35.34	164	49	Peak
5641.000	42.34	-4.42	37.92	54.00	-16.08	150	36	Average
5641.000	53.42	-4.42	49.00	74.00	-25.00	150	36	Peak
7410.000	33.93	0.79	34.72	54.00	-19.28	151	209	Average
7410.000	44.60	0.79	45.39	74.00	-28.61	151	209	Peak
9874.000	38.23	3.96	42.19	54.00	-11.81	150	231	Average
9874.000	50.33	3.96	54.29	74.00	-19.71	150	231	Peak
16623.000	31.49	12.22	43.71	54.00	-10.29	150	237	Average
16623.000	42.54	12.22	54.76	74.00	-19.24	150	237	Peak
17728.000	29.90	12.56	42.46	54.00	-11.54	150	135	Average
17728.000	43.20	12.56	55.76	74.00	-18.24	150	135	Peak

Antenna 2

Low channel

Horizontal

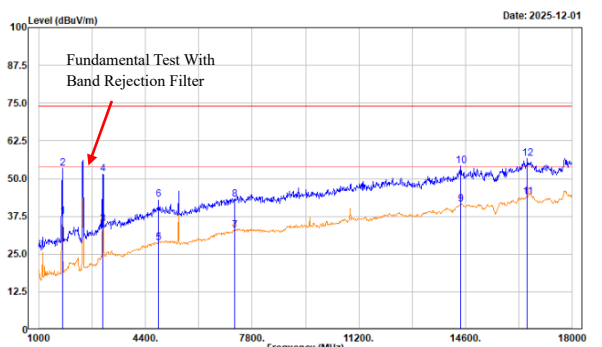
Description: SRD-TX-2410,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:1kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
1731.000	45.15	-14.27	30.88	54.00	-23.12	150	248	Average
1731.000	64.06	-14.27	49.79	74.00	-24.21	150	248	Peak
4820.000	32.60	-3.98	28.62	54.00	-25.38	166	24	Average
4820.000	43.20	-3.98	39.22	74.00	-34.78	166	24	Peak
7230.000	32.30	0.49	32.79	54.00	-21.21	137	321	Average
7230.000	42.77	0.49	43.26	74.00	-30.74	137	321	Peak
11897.000	30.93	7.40	38.33	54.00	-15.67	150	49	Average
11897.000	42.26	7.40	49.66	74.00	-24.34	150	49	Peak
14498.000	31.00	10.99	41.99	54.00	-12.01	150	127	Average
14498.000	42.01	10.99	53.00	74.00	-21.00	150	127	Peak
16691.000	32.44	12.25	44.69	54.00	-9.31	150	37	Average
16691.000	43.19	12.25	55.44	74.00	-18.56	150	37	Peak

Vertical

Description: SRD-TX-2410,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:1kHz

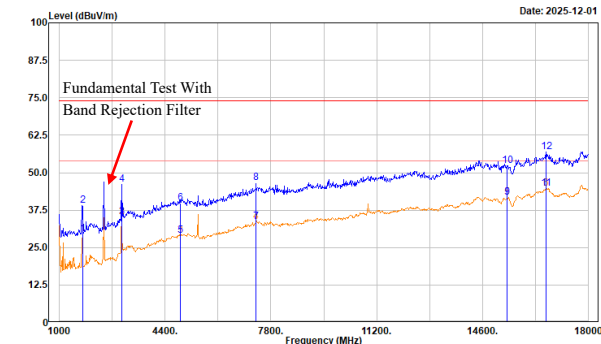


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
1748.000	51.45	-14.00	37.45	54.00	-16.55	150	27	Average
1748.000	67.40	-14.00	53.40	74.00	-20.60	150	27	Peak
3040.000	43.58	-8.54	35.04	54.00	-18.96	150	167	Average
3040.000	59.90	-8.54	51.36	74.00	-22.64	150	167	Peak
4820.000	32.74	-3.98	28.76	54.00	-25.24	144	311	Average
4820.000	47.18	-3.98	43.20	74.00	-30.80	144	311	Peak
7230.000	32.36	0.49	32.85	54.00	-21.15	167	351	Average
7230.000	42.71	0.49	43.20	74.00	-30.80	167	351	Peak
14447.000	30.60	10.87	41.47	54.00	-12.53	150	247	Average
14447.000	43.28	10.87	54.15	74.00	-19.85	150	247	Peak
16572.000	31.65	12.21	43.86	54.00	-10.14	150	167	Average
16572.000	44.30	12.21	56.51	74.00	-17.49	150	167	Peak

Middle channel

Horizontal

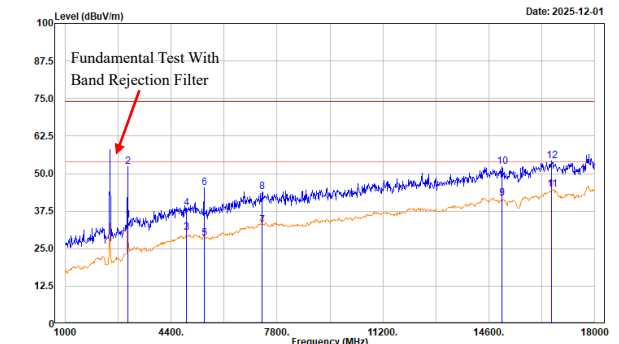
Description: SRD-TX-2444,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:1kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
1748.000	43.59	-14.00	29.59	54.00	-24.41	150	73	Average
1748.000	52.92	-14.00	38.92	74.00	-35.08	150	73	Peak
3006.000	43.81	-8.62	35.19	54.00	-18.81	150	26	Average
3006.000	54.70	-8.62	46.08	74.00	-27.92	150	26	Peak
4888.000	32.78	-3.85	28.93	54.00	-25.07	182	248	Average
4888.000	43.69	-3.85	39.84	74.00	-34.16	182	248	Peak
7332.000	32.62	0.86	33.48	54.00	-20.52	167	334	Average
7332.000	45.66	0.86	46.52	74.00	-27.48	167	334	Peak
15399.000	33.24	8.56	41.80	54.00	-12.20	150	135	Average
15399.000	43.81	8.56	52.37	74.00	-21.63	150	135	Peak
16640.000	32.50	12.23	44.73	54.00	-9.27	150	139	Average
16640.000	44.80	12.23	57.03	74.00	-16.97	150	139	Peak

Vertical

Description: SRD-TX-2444,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:1kHz

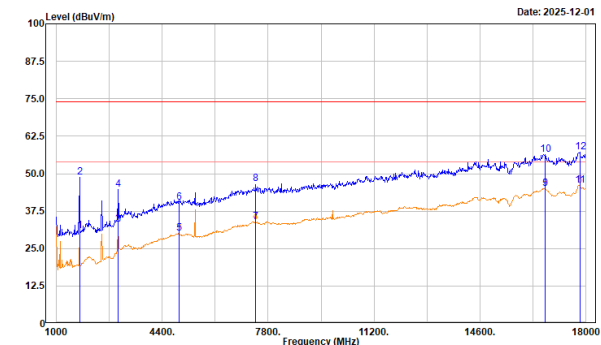


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
3006.000	42.91	-8.62	34.29	54.00	-19.71	150	34	Average
3006.000	60.95	-8.62	52.33	74.00	-21.67	150	34	Peak
4888.000	34.32	-3.85	30.47	54.00	-23.53	163	64	Average
4888.000	42.32	-3.85	38.47	74.00	-35.53	163	64	Peak
5454.000	33.23	-4.67	28.56	54.00	-25.44	172	27	Average
5454.000	50.03	-4.67	45.36	74.00	-28.64	172	27	Peak
7332.000	32.06	0.86	32.92	54.00	-21.08	150	123	Average
7332.000	43.04	0.86	43.90	74.00	-30.10	150	123	Peak
15025.000	31.60	10.24	41.84	54.00	-12.16	150	271	Average
15025.000	42.18	10.24	52.42	74.00	-21.58	150	271	Peak
16623.000	32.46	12.22	44.68	54.00	-9.32	150	194	Average
16623.000	41.97	12.22	54.19	74.00	-19.81	150	194	Peak

High channel

Horizontal

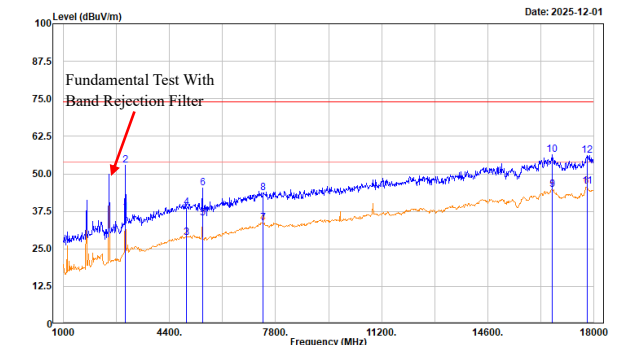
Description: SRD-TX-2470,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:1kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
1748.000	44.78	-14.00	30.78	54.00	-23.22	150	271	Average
1748.000	62.71	-14.00	48.71	74.00	-25.29	150	271	Peak
2989.000	41.71	-8.78	32.93	54.00	-21.07	150	127	Average
2989.000	53.42	-8.78	44.64	74.00	-29.36	150	127	Peak
4940.000	33.75	-3.77	29.98	54.00	-24.02	164	49	Average
4940.000	44.23	-3.77	40.46	74.00	-33.54	164	49	Peak
7410.000	33.11	0.79	33.90	54.00	-20.10	137	34	Average
7410.000	45.88	0.79	46.67	74.00	-27.33	137	34	Peak
16691.000	32.85	12.25	45.10	54.00	-8.90	150	281	Average
16691.000	44.24	12.25	56.49	74.00	-17.51	150	281	Peak
17813.000	33.19	12.99	46.18	54.00	-7.82	150	266	Average
17813.000	44.30	12.99	57.29	74.00	-16.71	150	266	Peak

Vertical

Description: SRD-TX-2470,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:1kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2989.000	46.00	-8.78	37.22	54.00	-16.78	150	237	Average
2989.000	61.63	-8.78	52.85	74.00	-21.15	150	237	Peak
4940.000	32.63	-3.77	28.86	54.00	-25.14	142	24	Average
4940.000	42.46	-3.77	38.69	74.00	-35.31	142	24	Peak
5454.000	39.79	-4.67	35.12	54.00	-18.88	150	168	Average
5454.000	49.93	-4.67	45.26	74.00	-28.74	150	168	Peak
7410.000	32.93	0.79	33.72	54.00	-20.28	166	37	Average
7410.000	42.79	0.79	43.58	74.00	-30.42	166	37	Peak
16657.000	32.62	12.23	44.85	54.00	-9.15	150	167	Average
16657.000	44.19	12.23	56.42	74.00	-17.58	150	167	Peak
17779.000	33.08	12.80	45.88	54.00	-8.12	150	247	Average
17779.000	43.36	12.80	56.16	74.00	-17.84	150	247	Peak

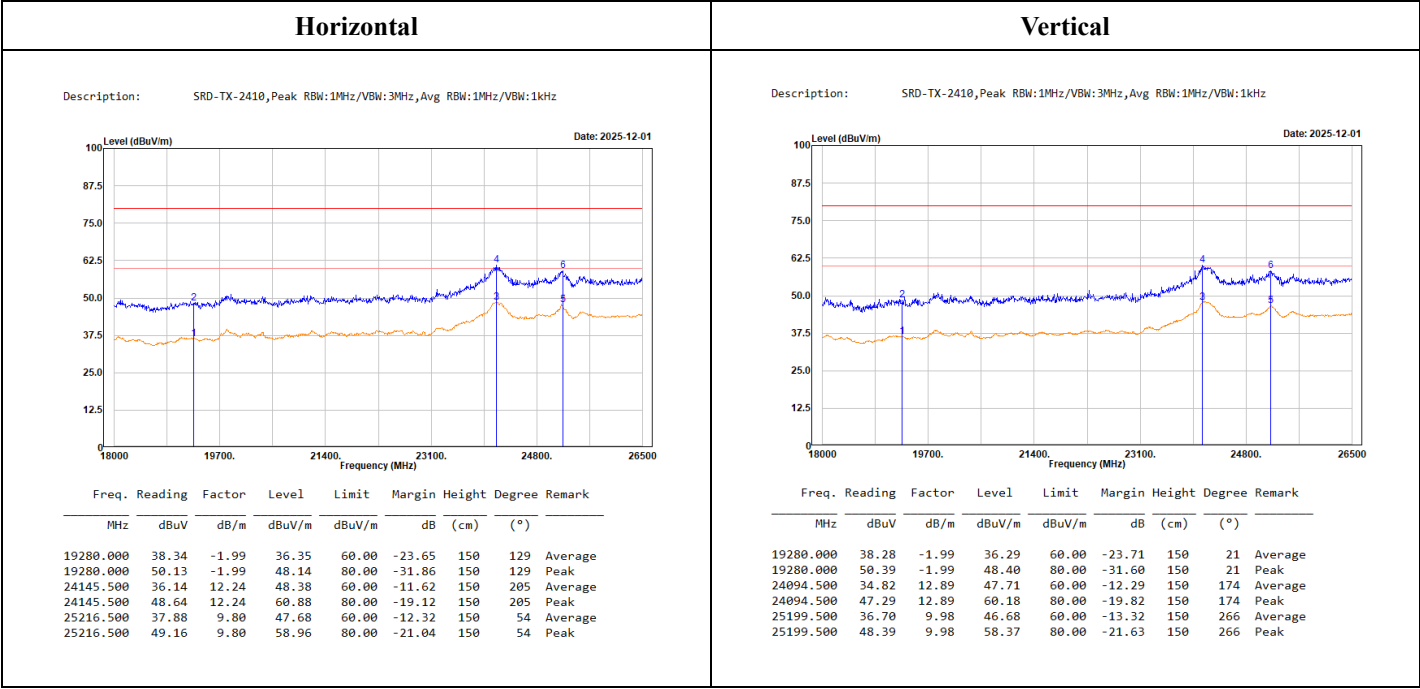
Level = Reading + Factor.

Margin = Level - Limit.

Factor = Antenna Factor + Cable Loss - Amplifier Gain.

18GHz-26.5GHz:

(Worst case is Antenna 1, low channel)



Level = Reading + Factor.

Margin = Level – Limit.

Factor = Antenna Factor + Cable Loss – Amplifier Gain.

For 18-26.5GHz Convert the test distance limit of 3 meters to a limit of 1.5 meter:

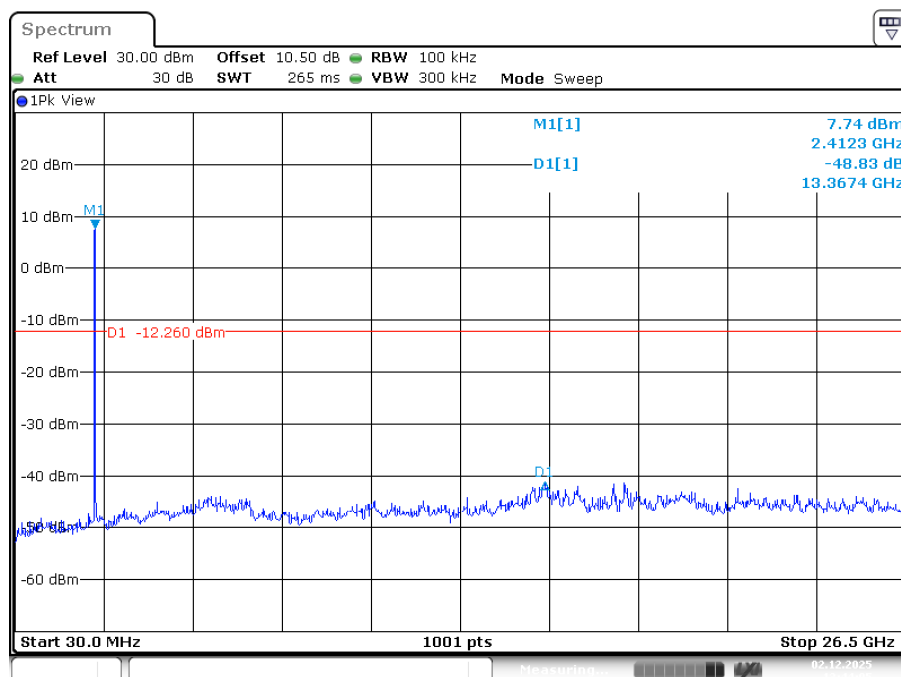
Conversion factor = 20 log (1.5m/3m) = 6 dB,

Average Limit = 54+6 = 60 dBuV/m@1.5m , Peak Limit = 60+20 = 80 dBuV/m@1.5m

Conducted Spurious Emissions:

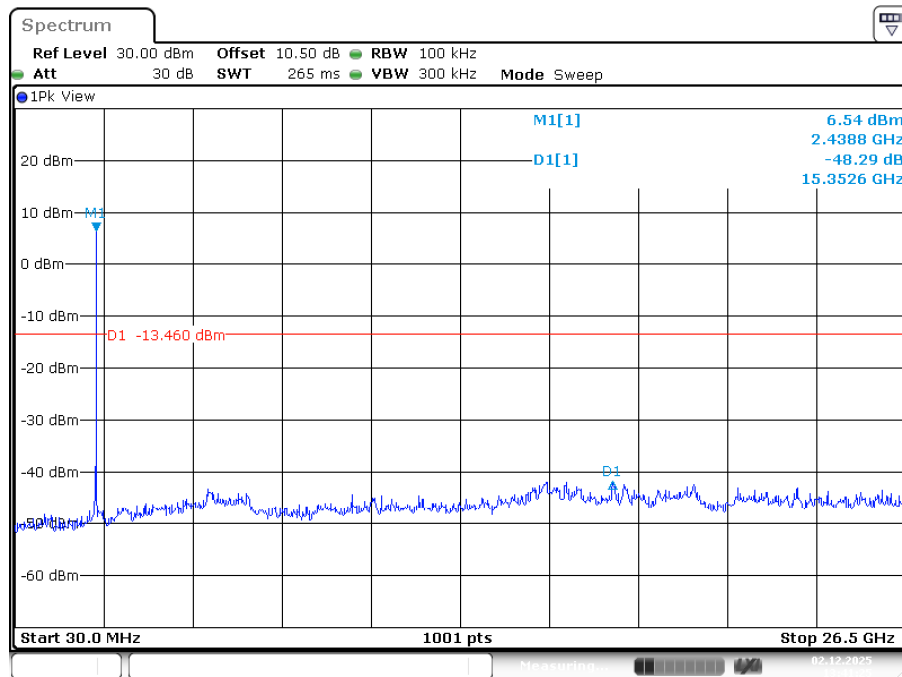
Channel	Frequency (MHz)	Delta Peak to Band Emission (dBc)	Limit (dBc)	Result
Antenna 1				
Low	2410	48.83	≥ 20	PASS
Mid	2444	48.29	≥ 20	PASS
High	2470	47.56	≥ 20	PASS
Antenna 2				
Low	2410	46.00	≥ 20	PASS
Mid	2444	45.14	≥ 20	PASS
High	2470	44.14	≥ 20	PASS

Antenna 1 Low Channel



ProjectNo.:RXZ251125069 Tester:Victor
Date: 2.DEC.2025 13:44:06

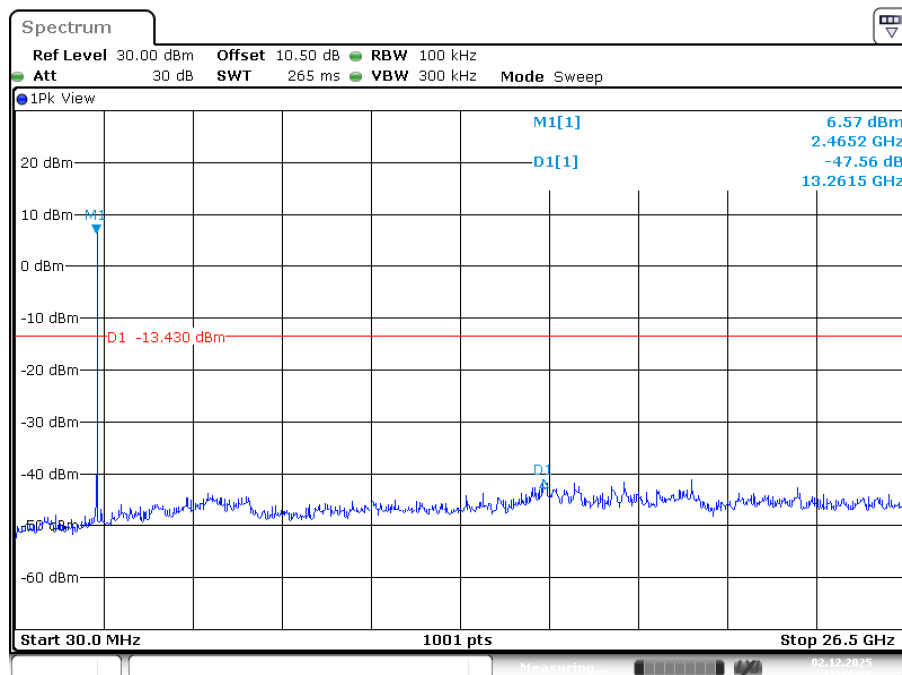
Middle Channel



ProjectNo.:RXZ251125069 Tester:Victor

Date: 2.DEC.2025 13:41:26

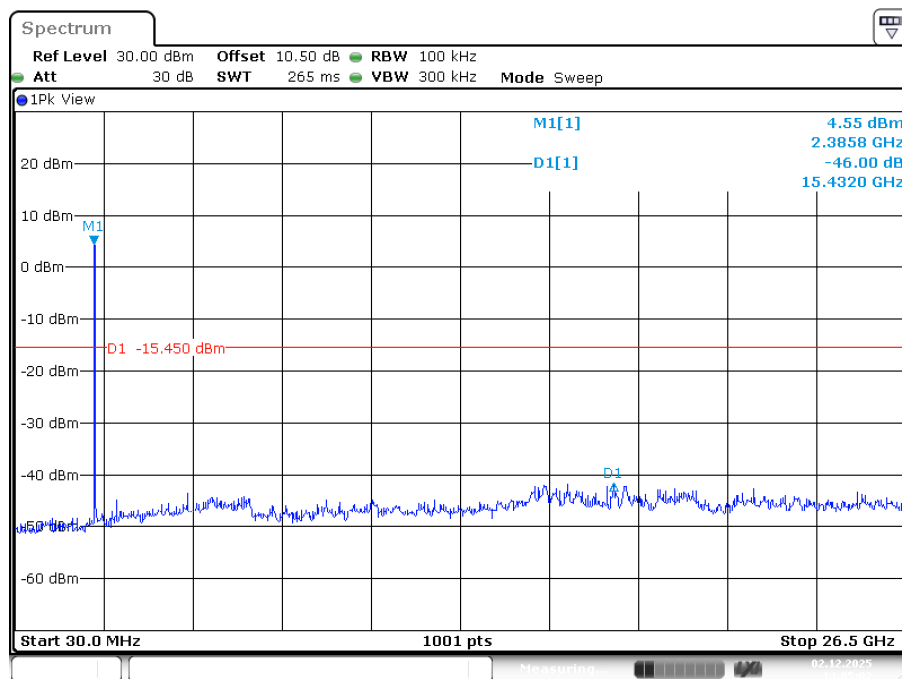
High Channel



ProjectNo.:RXZ251125069 Tester:Victor

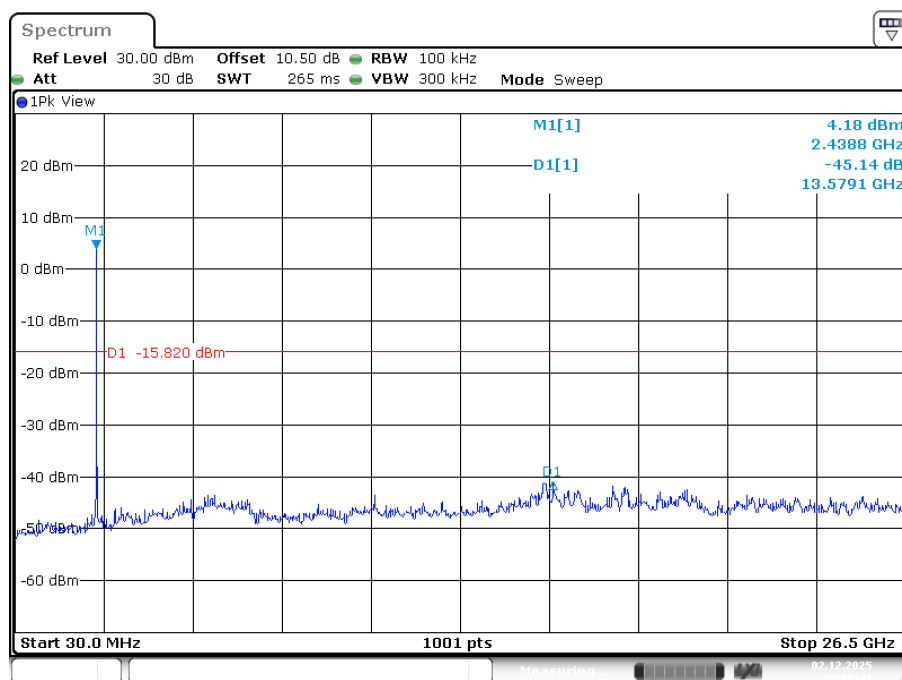
Date: 2.DEC.2025 13:38:56

Antenna 2 Low Channel



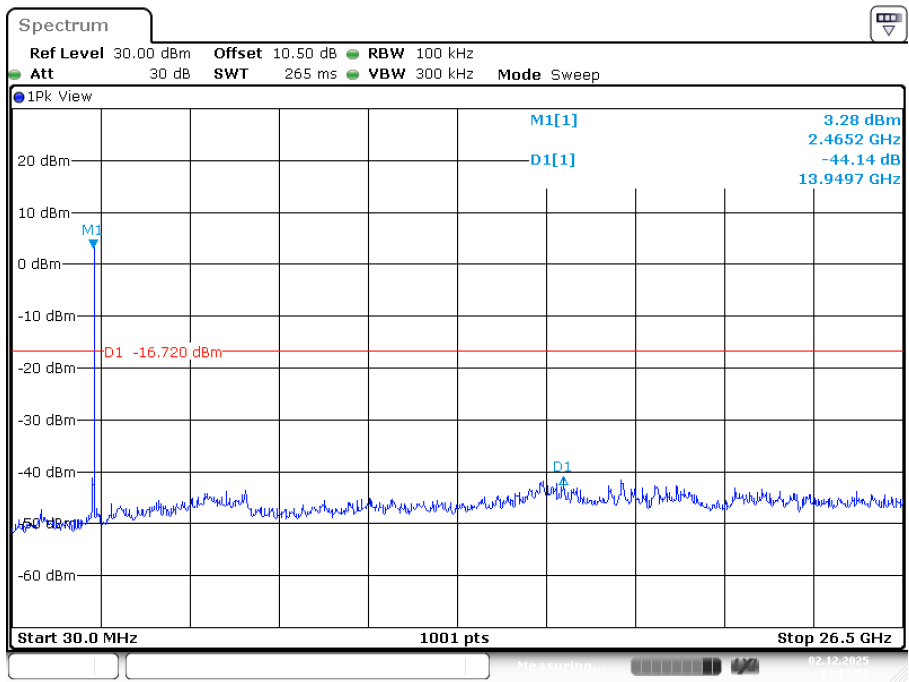
ProjectNo.:RXZ251125069 Tester:Victor
Date: 2.DEC.2025 14:05:02

Middle Channel



ProjectNo.:RXZ251125069 Tester:Victor
Date: 2.DEC.2025 14:09:42

High Channel



ProjectNo.:RXZ251125069 Tester:Victor
Date: 2.DEC.2025 14:13:02

8 FCC §15.247(a)(2) – 6 dB Emission Bandwidth

8.1 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.

8.2 Test Procedure

According to ANSI C63.10-2020, section 11.8

The steps for the first option are as follows:

- Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Trace mode = max hold.
- Sweep = No faster than coupled (auto) time.
- Allow the trace to stabilize.
- 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.

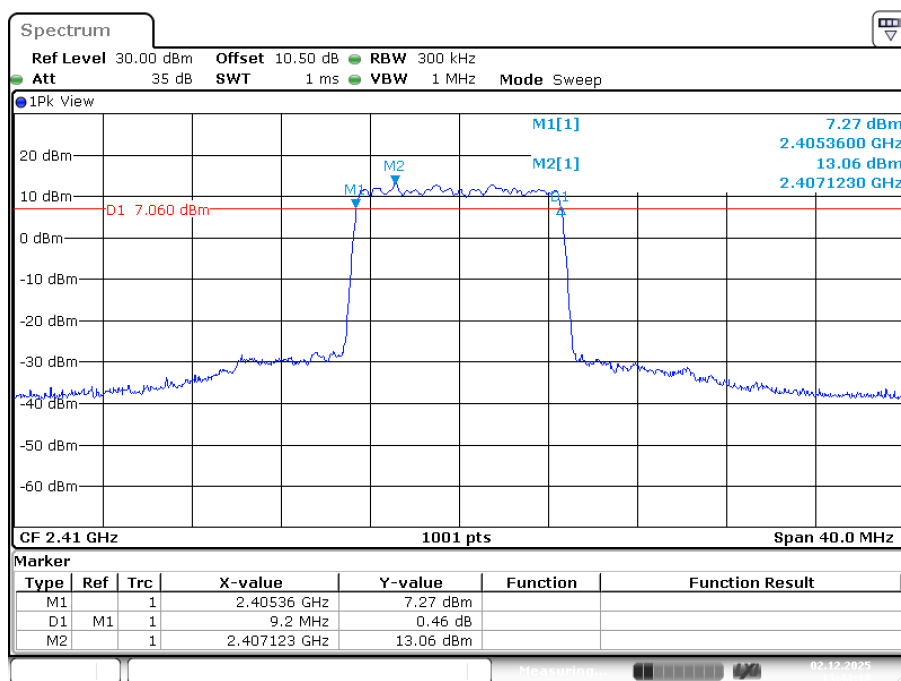
8.3 Test Results

Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (kHz)	Result
Antenna 1				
Low	2410	9.20	> 500	PASS
Middle	2444	9.20	> 500	PASS
High	2470	9.20	> 500	PASS
Antenna 2				
Low	2410	9.24	> 500	PASS
Middle	2444	9.20	> 500	PASS
High	2470	9.20	> 500	PASS

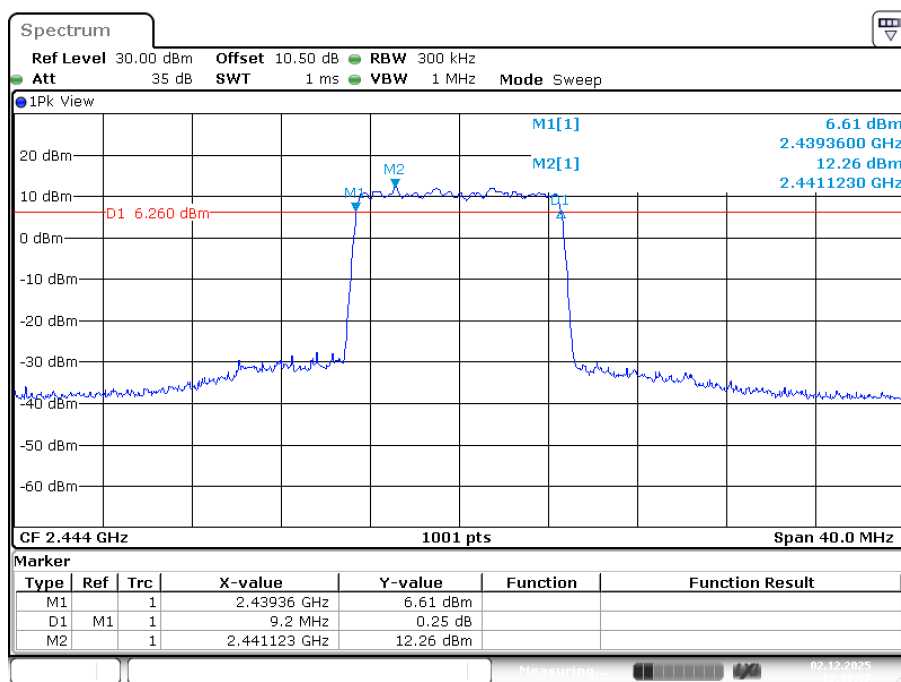
Please refer to the following plots

Antenna 1

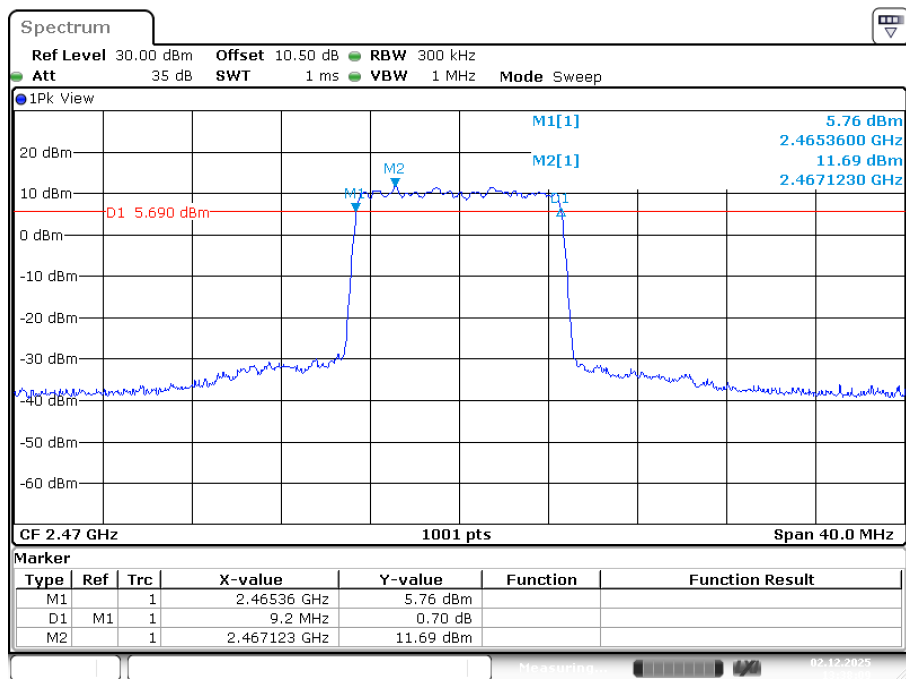
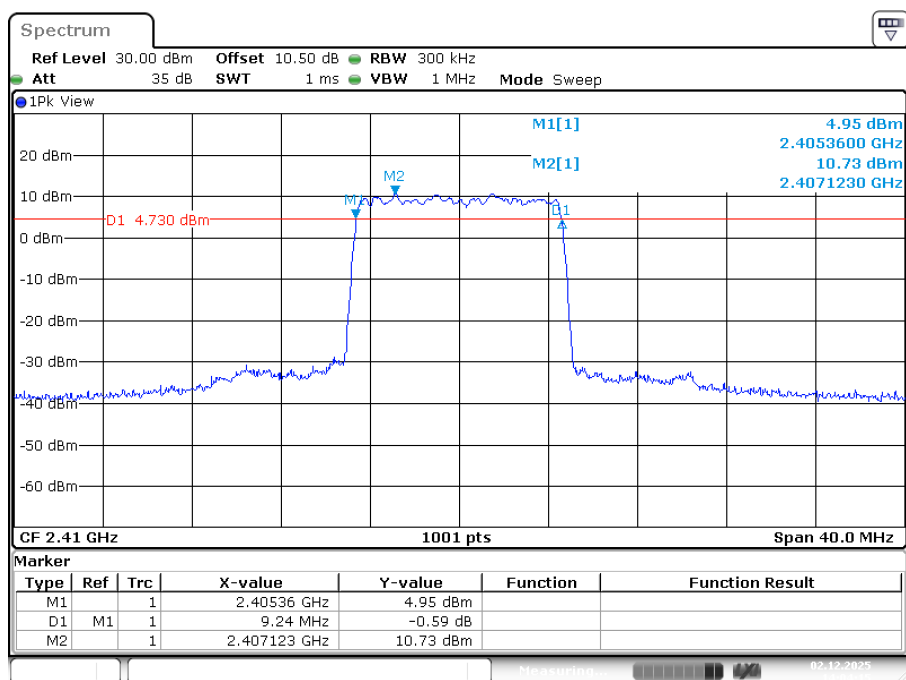
Low Channel



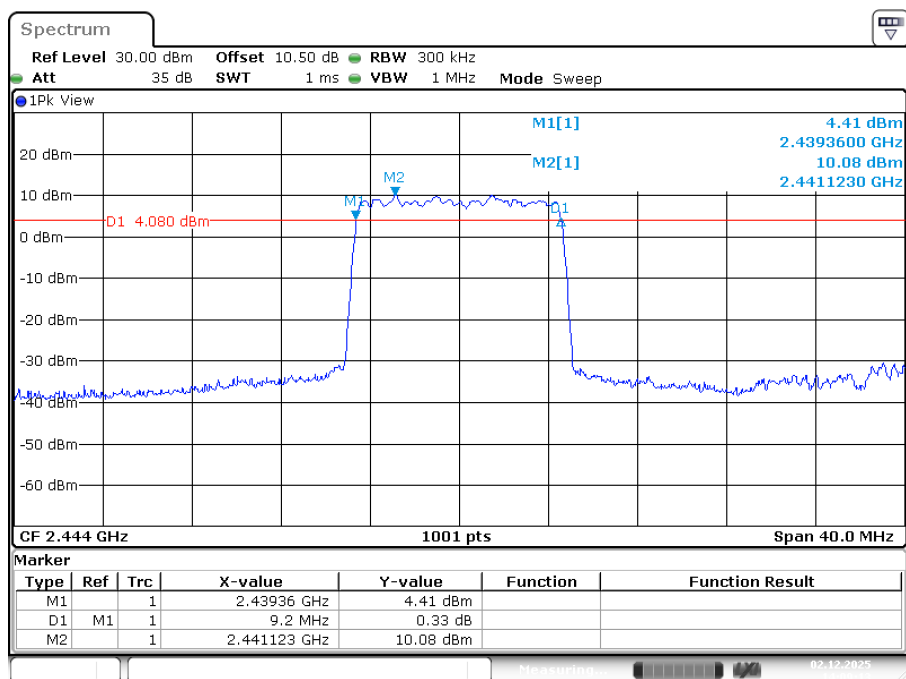
Middle Channel



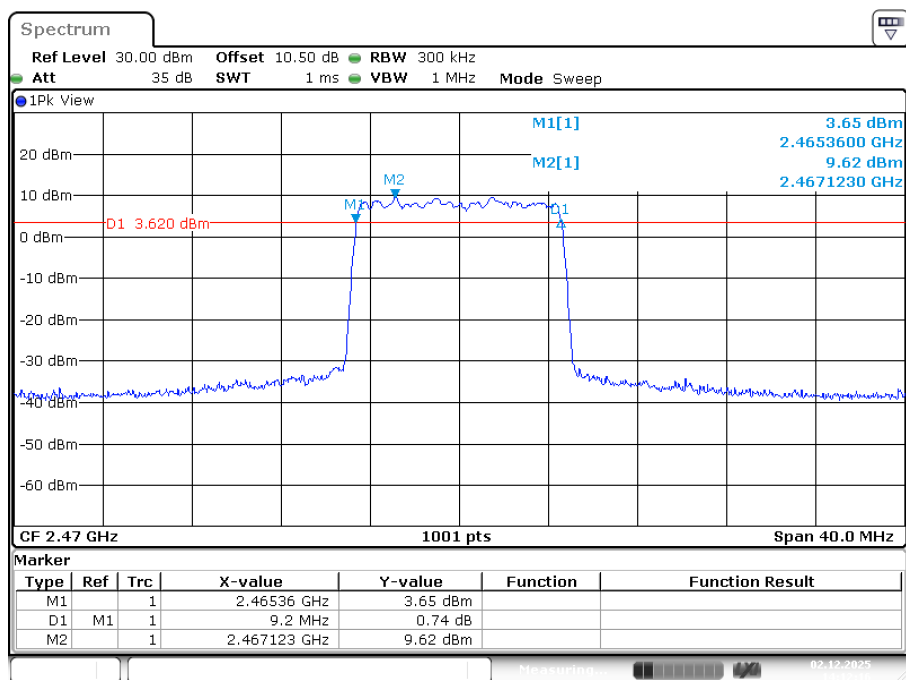
High Channel

Antenna 2
Low Channel

Middle Channel



High Channel



9 FCC §15.247(b)(3) – Maximum Output Power

9.1 Applicable Standard

According to FCC §15.247(b) (3).

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.

9.2 Test Procedure

According to ANSI C63.10-2020, section 11.9.1.2

1. Place the EUT on a bench 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 power meter.

9.3 Test Results

Conducted Peak Output Power

Transmitter Module

Channel	Frequency (MHz)	Conducted Peak Output Power (dBm)	Limit (dBm)	Result
Antenna 1				
Low	2410	28.60	30	PASS
Middle	2444	27.61	30	PASS
High	2470	27.05	30	PASS
Antenna 2				
Low	2410	26.43	30	PASS
Middle	2444	25.60	30	PASS
High	2470	25.02	30	PASS

Receiver Module

Channel	Frequency (MHz)	Conducted Peak Output Power (dBm)	Limit (dBm)	Result
Antenna 1				
Low	2410	28.57	30	PASS
Middle	2444	27.53	30	PASS
High	2470	27.01	30	PASS
Antenna 2				
Low	2410	26.39	30	PASS
Middle	2444	25.51	30	PASS
High	2470	24.96	30	PASS

10 FCC§15.247(d) – 100 kHz Bandwidth of Frequency Band Edge

10.1 Applicable Standard

According to FCC §15.247(d).

In any 100kHz 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 20dB below that in the 100kHz 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 30dB instead of 20dB. 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)).

10.2 Test Procedure

According to ANSI C63.10-2020 Section 11.11.3

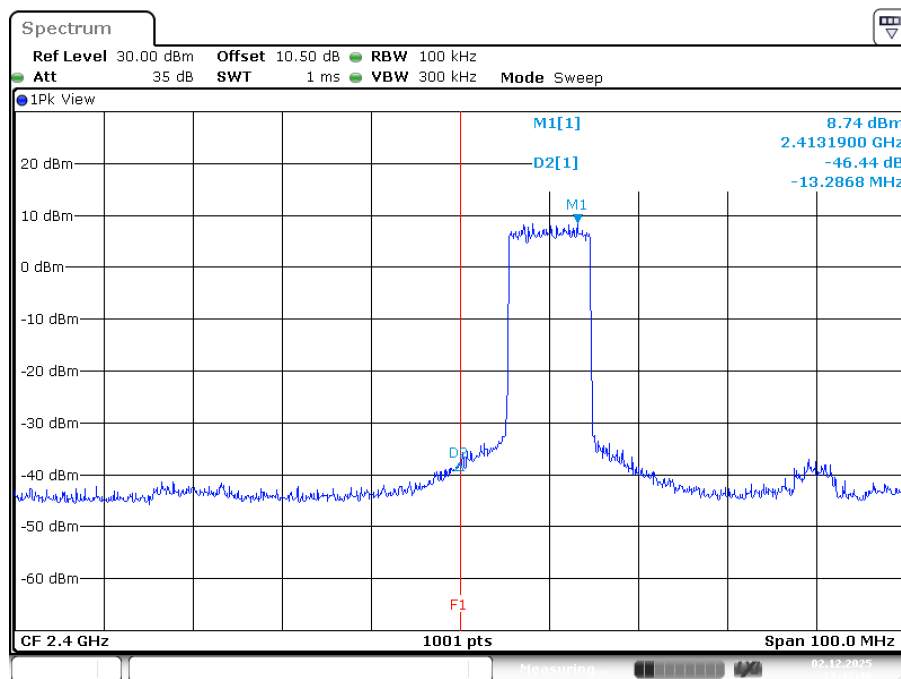
1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

10.3 Test Results

Channel	Frequency (MHz)	Delta Peak to Band Emission (dBc)	Limit (dBc)	Result
Antenna 1				
Low	2410	46.44	≥ 20	PASS
High	2470	48.61	≥ 20	PASS
Antenna 2				
Low	2410	44.65	≥ 20	PASS
High	2470	46.99	≥ 20	PASS

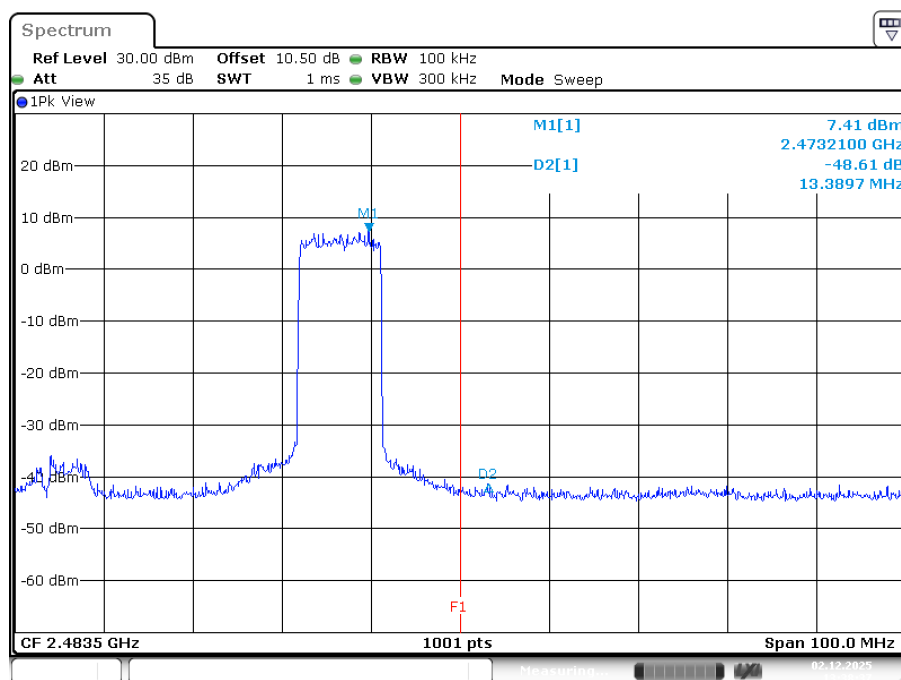
Please refer to the following plots.

Antenna 1 Band Edge, Low Channel



ProjectNo.:RXZ251125069 Tester:Victor
Date: 2.DEC.2025 13:43:47

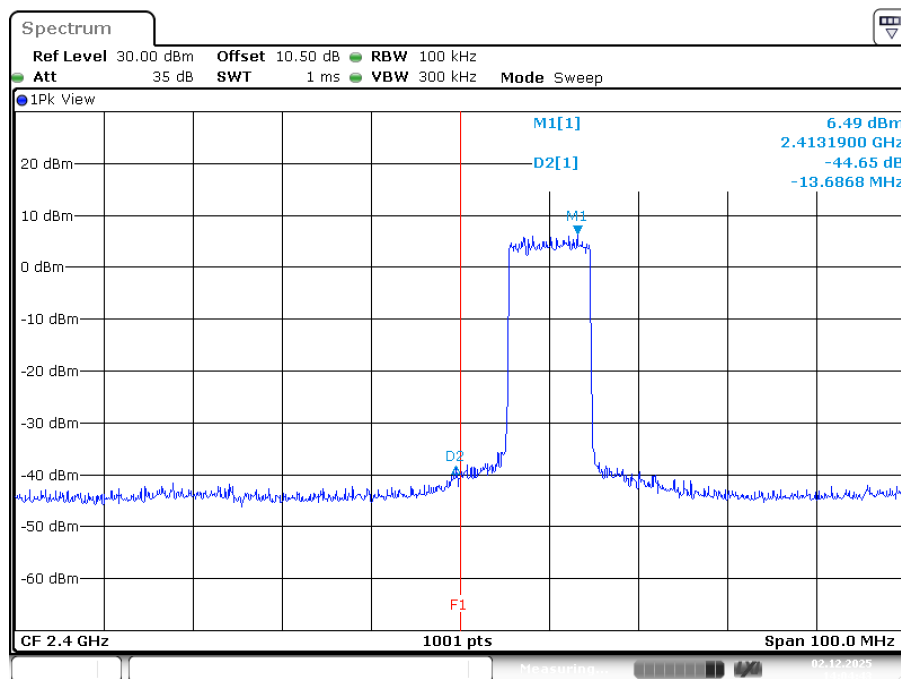
Band Edge, High Channel



ProjectNo.:RXZ251125069 Tester:Victor
Date: 2.DEC.2025 13:38:37

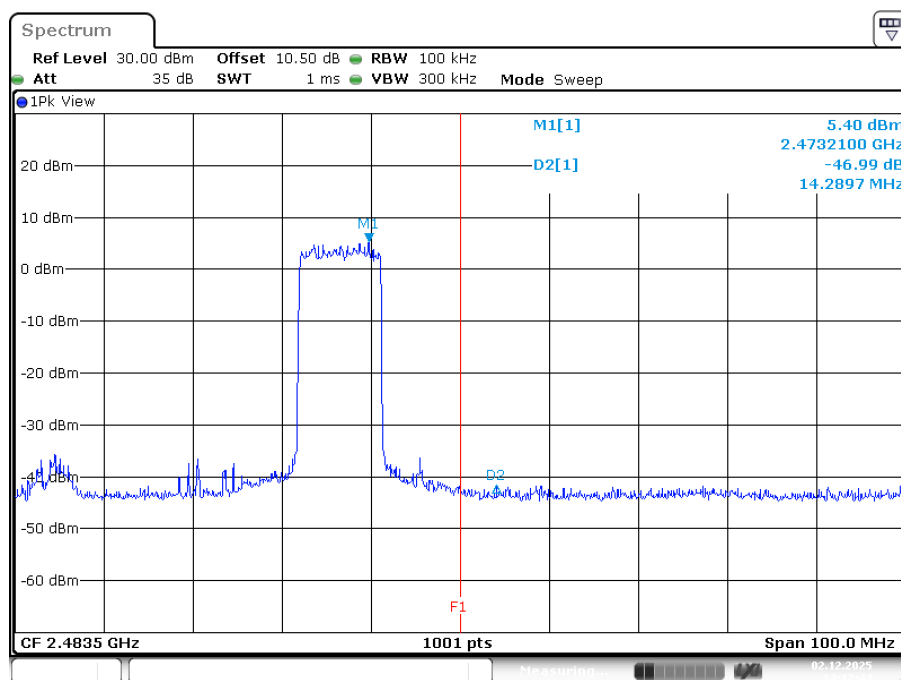
Antenna 2

Band Edge, Low Channel



ProjectNo.:RXZ251125069 Tester:Victor
Date: 2.DEC.2025 14:04:44

Band Edge, High Channel



ProjectNo.:RXZ251125069 Tester:Victor
Date: 2.DEC.2025 14:12:43

11 FCC §15.247(e) – Power Spectral Density

11.1 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.

11.2 Test Procedure

According to ANSI C63.10-2020, section 11.10.2

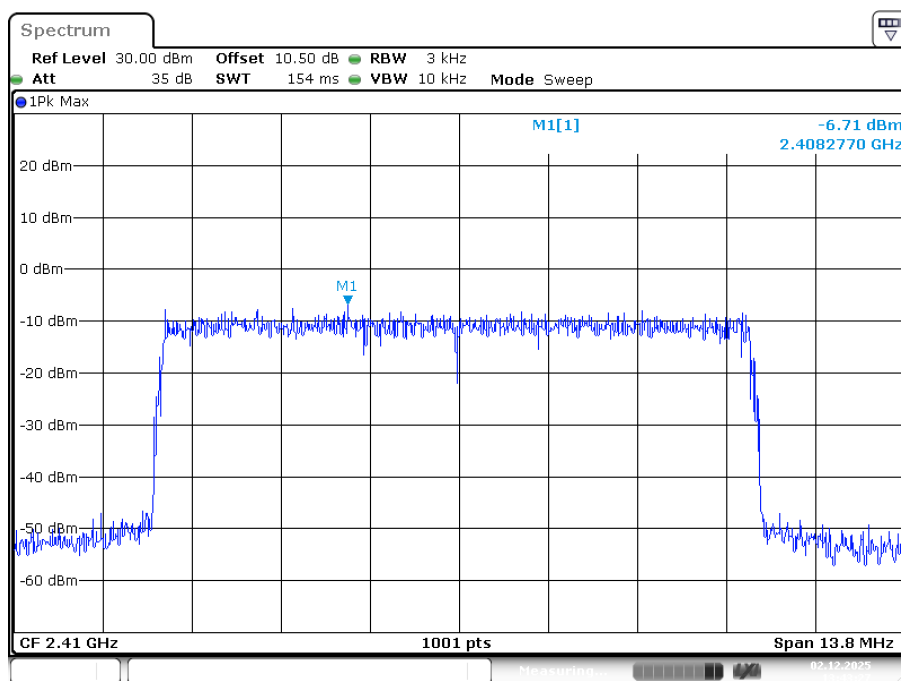
- Set analyzer center frequency to DTS channel center frequency.
- Set the span >1.5 times the DTS bandwidth.
- Set the RBW to $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Sweep time = No faster than coupled (auto) time.
- Trace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

11.3 Test Results

Channel	Frequency (MHz)	Power Spectral Density (dBm/3 kHz)	Limit (dBm/3 kHz)	Result
Antenna 1				
Low	2410	-6.71	8	PASS
Middle	2444	-7.48	8	PASS
High	2470	-8.03	8	PASS
Antenna 2				
Low	2410	-8.95	8	PASS
Middle	2444	-9.65	8	PASS
High	2470	-10.11	8	PASS

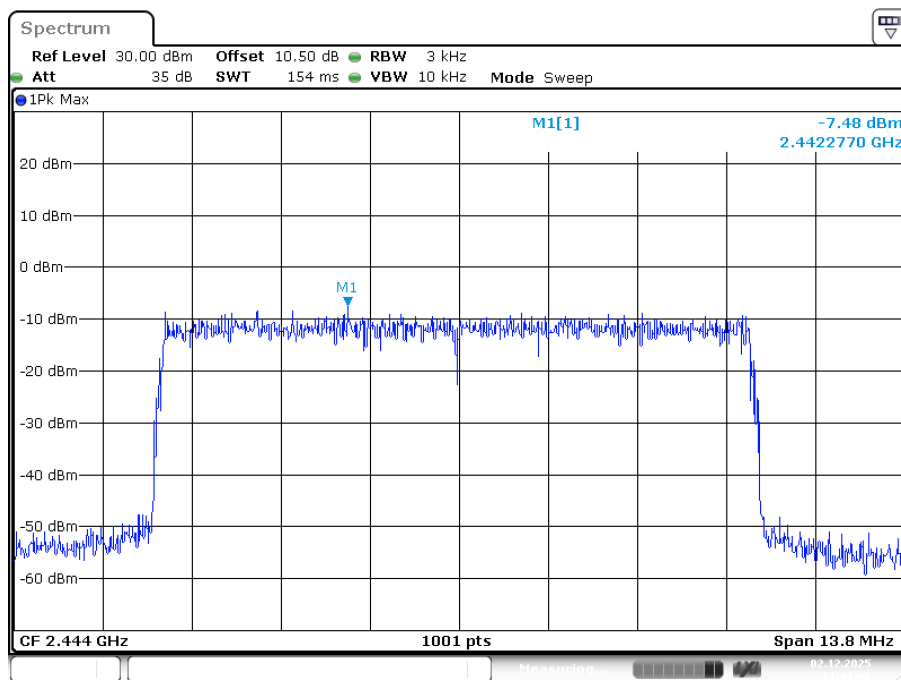
Please refer to the following plots

Antenna 1 Low Channel



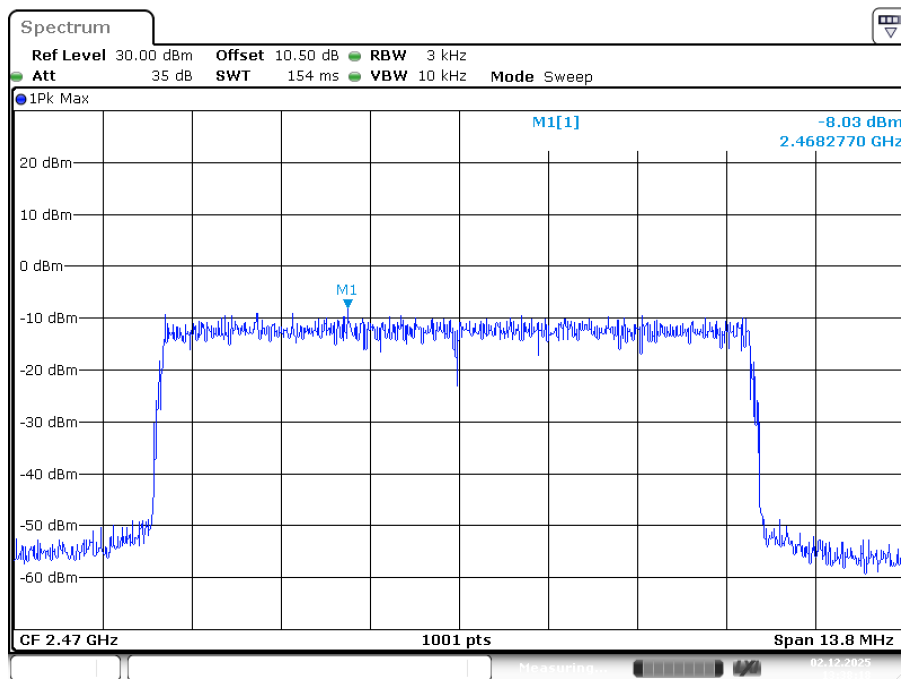
ProjectNo.:RXZ251125069 Tester:Victor
 Date: 2.DEC.2025 13:43:28

Middle Channel



ProjectNo.:RXZ251125069 Tester:Victor
 Date: 2.DEC.2025 13:41:07

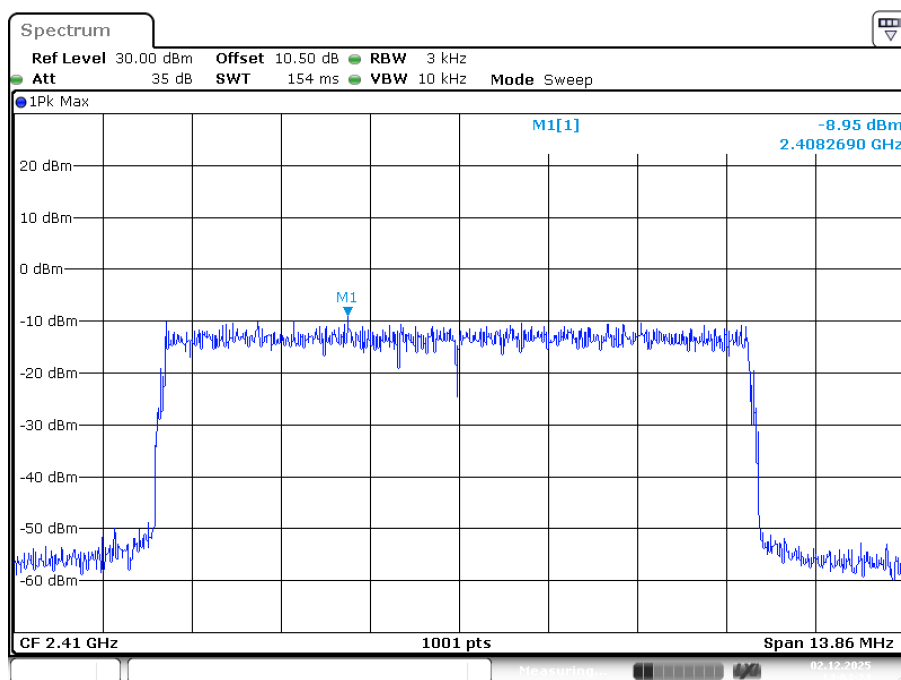
High Channel



ProjectNo.:RXZ251125069 Tester:Victor

Date: 2.DEC.2025 13:38:18

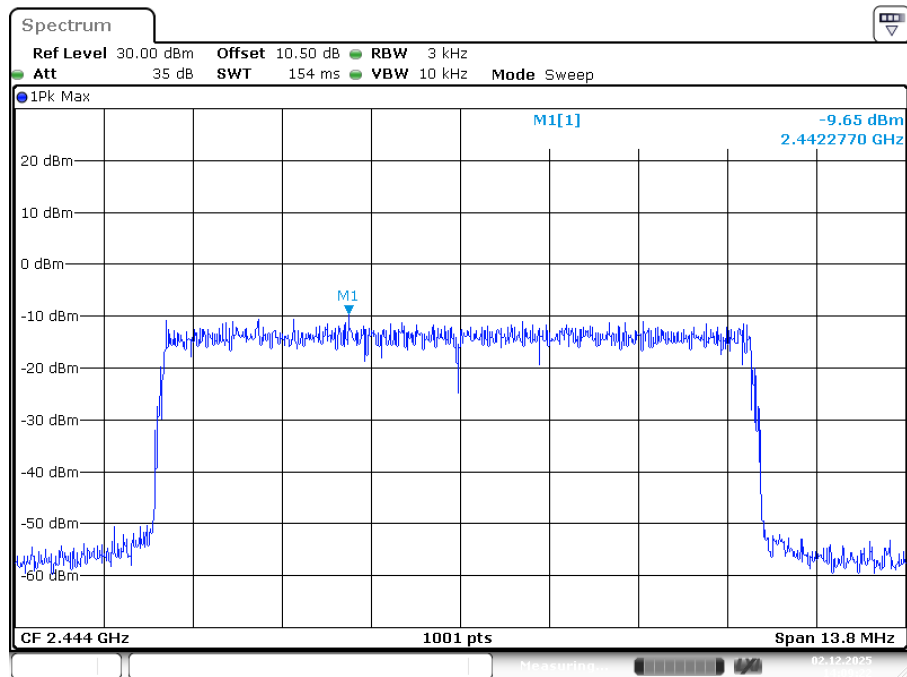
Antenna 2 Low Channel



ProjectNo.:RXZ251125069 Tester:Victor

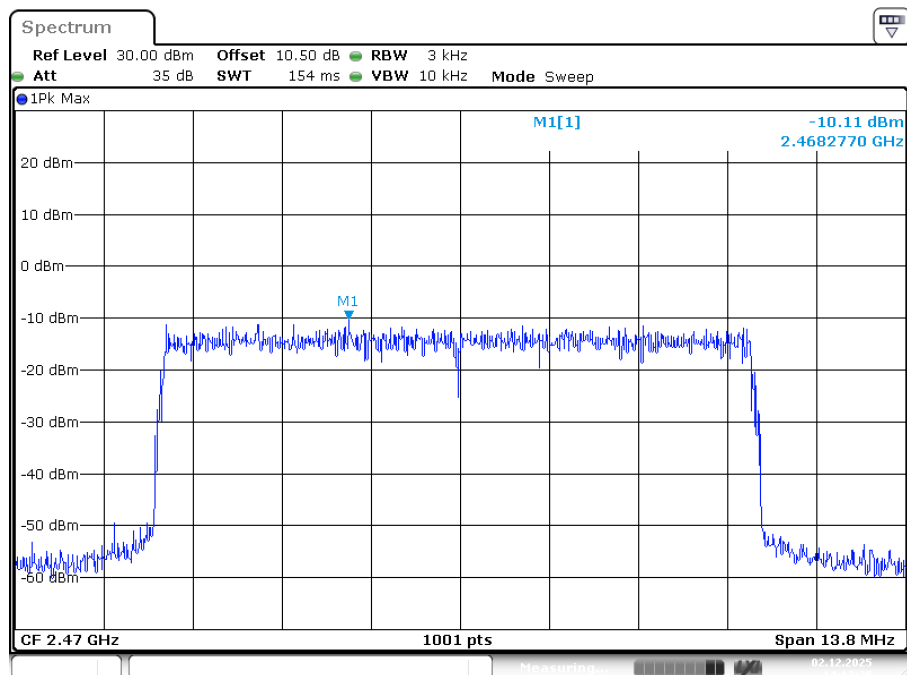
Date: 2.DEC.2025 14:04:24

Middle Channel



ProjectNo.:RXZ251125069 Tester:Victor
Date: 2.DEC.2025 14:09:23

High Channel



ProjectNo.:RXZ251125069 Tester:Victor
Date: 2.DEC.2025 14:12:24

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