





FCC Part 15.247 TEST REPORT

For

ASUSTeK COMPUTER INC.

1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan

FCC ID: MSQ-AISSENS-100AW

Report Type: Product Type: Original Report Vibration Sensor **Report Producer:** Coco Lin Report Number: <u>RXZ250210040RF01</u> Report Date : <u>2025-03-18</u> Money, Shih Reviewed By: Andy Shih 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

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Page 1 of 76

Revision History

No.: RXZ250210040RF01

Revision	No.	Report Number	Issue Date	Description	Author/ Revised by
0.0	RXZ250210040	RXZ250210040RF01	2025-03-18	Original Report	Coco Lin

TABLE OF CONTENTS

No.: RXZ250210040RF01

1	General Information	4
	1.1 Product Description for Equipment under Test (EUT)	4
	1.2 Objective	
	1.3 Test Methodology	
	1.4 Statement	
	1.5 Measurement Uncertainty1.6 Environmental Conditions	
	1.7 Test Facility	
2	System Test Configuration	
	2.1 Description of Test Configuration	7
	2.2 EUT Exercise Software	
	2.3 Equipment Modifications	
	2.4 Test Mode	
	2.5 Support Equipment List and Details	
	2.6 External Cable List and Details	
	2.7 Block Diagram of Test Setup2.8 Duty Cycle	
3	Summary of Test Results	
	·	
4	Test Equipment List and Details	
5	FCC §15.203 – Antenna Requirements	15
	5.1 Applicable Standard	
	5.2 Antenna List and Details	
6	FCC §15.209, §15.205, §15.247(d) – Spurious Emissions	16
	6.1 Applicable Standard	
	6.2 EUT Setup	
	6.3 EMI Test Receiver & Spectrum Analyzer Setup	
	6.4 Test Procedure6.5 Corrected Factor & Margin Calculation	
	6.6 Test Results	
7	FCC §15.247(a)(2) – 6 dB Emission Bandwidth	
	7.1 Applicable Standard	
	7.2 Test Procedure	47
	7.3 Test Results	
8	FCC §15.247(b)(3) – Maximum Output Power	
	8.1 Applicable Standard	57
	8.2 Test Procedure	
	8.3 Test Results	58
9	FCC§15.247(d) – 100 kHz Bandwidth of Frequency Band Edge	60
	9.1 Applicable Standard	60
	9.2 Test Procedure	
	9.3 Test Results	
10		
	10.1 Applicable Standard	
	10.2 Test Procedure	
	10.3 Test Results	68

1 General Information

1.1 Product Description for Equipment under Test (EUT)

Applicant	ASUSTeK COMPUTER INC.				
Аррисан	1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan				
Brand(Trade) Name	ASUS				
Product (Equipment)	Vibration Sensor				
Main Model Name	AISSENS 100AW				
Series Model Name	N/A				
	IEEE 802.11b/g/n HT20 Mode: 2412 ~ 2462 MHz				
Frequency Range	IEEE 802.11n HT40 Mode: 2422 ~ 2452 MHz				
	BLE(1M): 2402 ~ 2480 MHz				
	IEEE 802.11b Mode: 17.14 dBm				
Maximum Conducted Peak	IEEE 802.11g Mode: 20.99 dBm				
	IEEE 802.11n HT20 Mode: 20.90 dBm				
Output Power	IEEE 802.11n HT40 Mode: 19.90 dBm				
	BLE(1M) Mode: 5.57 dBm				
	IEEE 802.11b Mode: DSSS				
Modulation Technique	IEEE 802.11g/ n HT20 /n HT40 Mode: OFDM				
	BLE(1M) Mode: GFSK				
Power Operation (Voltage Range)	 DC Type Battery 3.6V DC Power Supply External from USB Cable External DC Adapter 				
Received Date	2025/02/12				

No.: RXZ250210040RF01

RXZ250210040-1 (Assigned by BACL, New Taipei Laboratory).

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

1.2 Objective

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

No.: RXZ250210040RF01

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, 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)

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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.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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.

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, conducte	d	+/- 0.57 dB
Power Spectral Density, co	nducted	+/- 0.60 dB
Occupied Bandwidth		+/- 0.09 %
Unwanted Emissions, cond	lucted	+/- 1.09 dB
	9 kHz~30 MHz	+/- 3.20 dB
Emissions, radiated	30 MHz~1 GHz	+/- 3.30 dB
Elinssions, radiated	1 GHz~18 GHz	+/- 5.14 dB
	18 GHz~40 GHz	+/- 4.75 dB
Temperature		+/- 0.76 °C
Humidity		+/- 0.41 %

No.: RXZ250210040RF01

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
Radiation Spurious Emissions	2025/2/12~2025/2/19	18.6~21.4	62~68	Nick
Duty Cycle	2025/02/13	22.3	59	Sean
Conducted Spurious Emissions	2025/2/12~2025/2/13	22.3~22.5	54~59	Sean
Emission Bandwidth	2025/2/12~2025/2/13	22.3~22.5	54~59	Sean
Maximum Output Power	2025/2/12	22.5	54	Sean
100 kHz Bandwidth of Frequency Band Edge	2025/2/12~2025/2/13	22.3~22.5	54~59	Sean
Power Spectral Density	2025/2/12~2025/2/13	22.3~22.5	54~59	Sean

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 WIFI mode, there are totally 11 channels.

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	7	2442
2	2417	8	2447
3	2422	9	2452
4	2427	10	2457
5	2432	11	2462
6	2437	/	/

No.: RXZ250210040RF01

For 802.11 b/g/n20 Modes were tested with channel 1, 6 and 11.

For 802.11n40 Mode were tested with channel 3, 6 and 9.

For BLE mode, there are totally 40 channels.

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2442
1	2404		
2	2406		
3	2408	37	2476
		38	2478
19	2440	39	2480

For BLE Modes were tested with channel 0, 19 and 39.

2.2 EUT Exercise Software

The test software was used "EspRFTestTool_v3.6"

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

Test Frequency		Low	Middle	High
	802.11b Mode	0	0	0
	802.11g Mode	0	0	0
Power Level Setting	802.11n HT20 Mode	0	0	0
	802.11n HT40 Mode	0	0	0
	BLE 1M	7	7	7

The worst case data rates are as follows:

802.11b: 1Mbps 802.11g: 6Mbps

802.11n HT20: MCS0 802.11n HT40: MCS0

BLE 1M: 1 Mbps

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Page 7 of 76

2.3 Equipment Modifications

No modification was made to the EUT.

2.4 Test Mode

Full System (model: AISSENS 100AW) for all test item.

2.5 Support Equipment List and Details

Description	Manufacturer	Model Number	
NB	DELL	E6410	
Fixture	Waveshare	FT232	

No.: RXZ250210040RF01

2.6 External Cable List and Details

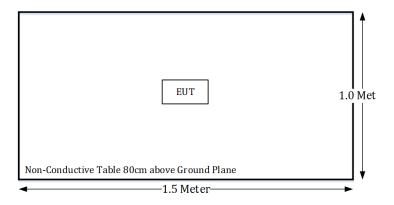
Description	Manufacturer	Cable length
4-pin data cable	BACL	0.5m

2.7 Block Diagram of Test Setup

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

Radiation:

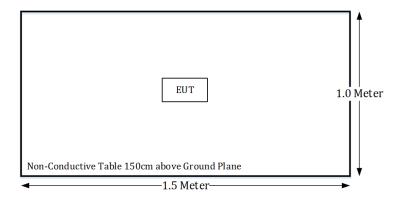
Below 1GHz:



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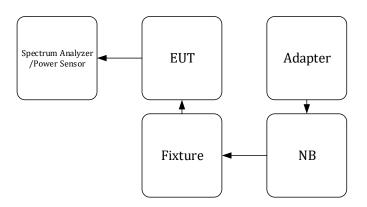
Page 8 of 76

Above 1GHz:



No.: RXZ250210040RF01

Conducted:



2.8 Duty Cycle

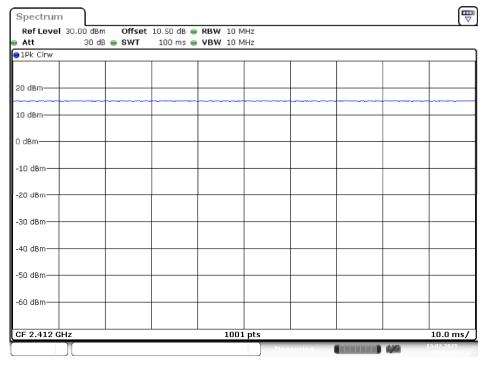
The duty cycle as below:

Radio	Ton	Ton+Toff	Duty Cycle	Duty factor	1/T	1/T VBW setting
Mode	(ms)	(ms)	(%)	(dB)	(kHz)	(kHz)
802.11b	100	100	100	/	/	0.01
802.11g	100	100	100	/	/	0.01
802.11n20	100	100	100	/	/	0.01
802.11n40	100	100	100	/	/	0.01
BLE(1M)	2.08	2.50	83	0.81	0.48	0.50

Please refer to the following plots.

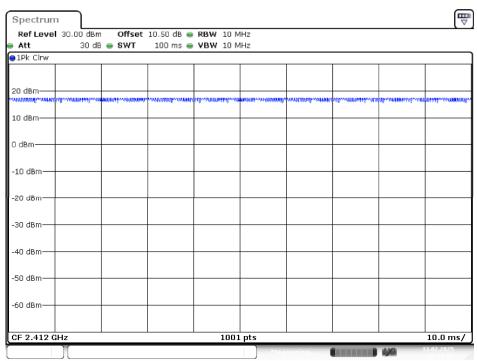
B Mode

No.: RXZ250210040RF01



Date: 13.FEB.2025 11:12:31

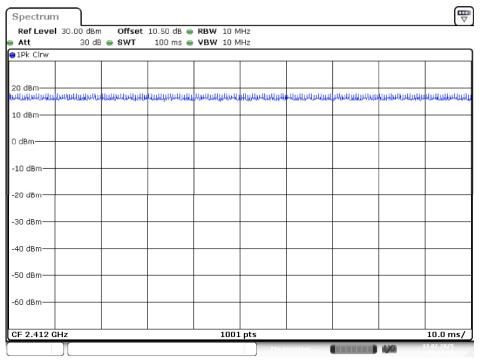
G Mode



Date: 13.FEB.2025 11:12:07

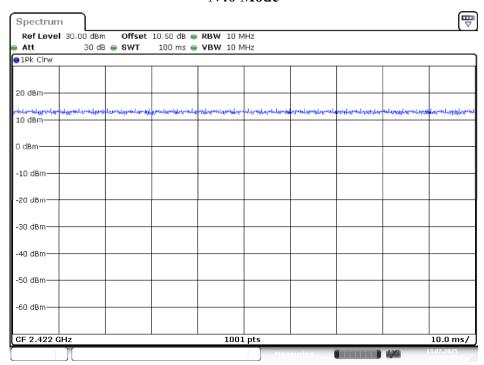
N20 Mode

No.: RXZ250210040RF01



Date: 13.FEB.2025 11:11:27

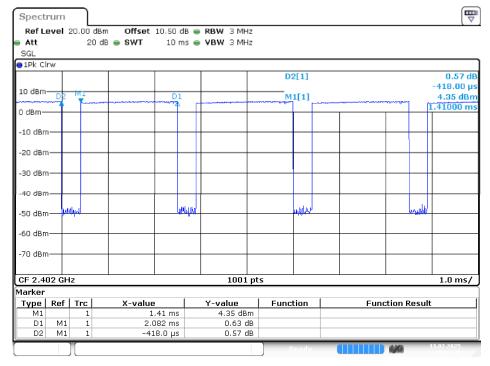
N40 Mode



Date: 13.FEB.2025 11:13:17

BLE(1M) Mode

No.: RXZ250210040RF01



Date: 13.FEB.2025 09:22:37

3 Summary of Test Results

FCC Rules	Description of Test	Results
§15.203	Antenna Requirement	Compliance
§15.207(a)	AC Line Conducted Emissions	Not applicable
§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

No.: RXZ250210040RF01

Not applicable: Device only supports battery.

4 Test Equipment List and Details

Description	Manufacturer	Model	Serial	Calibration	Calibration		
-			Number	Date	Due Date		
		Radiation 3M Room	(966-A)				
Active Loop Antenna	ETS-Lindgren	6502	35796	2024/3/27	2025/3/27		
Bilog Antenna with 6 dB Attenuator	SUNOL SCIENCES & MINI-CIRCUITS	JB6/UNAT-6+	A050115/1554 2_01	2025/1/16	2026/1/16		
Double Ridged Guide Horn Antenna	A.H. system	SAS-571	1020	2024/5/21	2025/5/21		
Horn Antenna	ETS-Lindgren	3116	62638	2024/8/30	2025/8/30		
Preamplifier	Sonoma	310N	130602	2024/6/18	2025/6/18		
Preamplifier	Channel	ERA-100M-18G- 01D1748	EC2300051	2024/3/29	2025/3/29		
Preamplifier	BACL	BACL-1313- A1840	4011511	2025/2/12	2026/2/12		
EMI Test Receiver	Rohde & Schwarz(R&S)	ESR3	102099	2024/6/24	2025/6/24		
Spectrum Analyzer	Rohde & Schwarz	FSV40	101939	2024/3/27	2025/3/27		
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	ROSNOL	K1K50-UP0264- K1K50-450CM	160309-1	2025/1/21	2026/1/21		
Microflex Cable	ROSNOL	K1K50-UP0264- K1K50-80CM	160309-2	2025/1/21	2026/1/21		
Band-stop filter	Woken	STI15-9831	STI15-9831-1	2024/10/19	2025/10/19		
High-pass filter	XINGBOKEJI	XBLBQ-GTA54	200108-3-2	2024/10/19	2025/10/19		
Software	AUDIX	E3	18621a	N.C.R	N.C.R		
		Conducted Roo	m				
Spectrum Analyzer	Rohde & Schwarz(R&S)	FSV40	101204	2024/5/30	2025/5/30		
Cable	UTIFLEX	UFA210A	9435	2024/10/1	2025/10/1		
Real-Time Peak Power Sensor	Boonton	RTP5006	11037	2024/5/21	2025/5/21		
Attenuator							

No.: RXZ250210040RF01

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Page 14 of 76

^{*}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.

No.: RXZ250210040RF01

5.2 Antenna List and Details

Manufacturer	Model	Antenna Type	Antenna Gain
INPAQ TECHNOLOGY CO., LTD.	ACA-3216-A2-MC-S	Chip	0.5 dBi

Antenna was permanently attached to the unit.

Result: Compliance

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

6.1 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.

No.: RXZ250210040RF01

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.

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Page 16 of 76

According to ANSI C63.10-2013, section 5.3.3

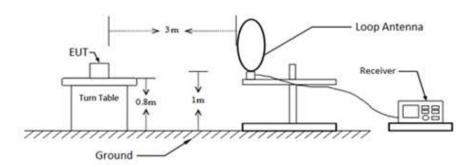
Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field, and the emissions to be measured can be detected by the measurement equipment (see 4.3.4). Measurements shall not be performed at a distance greater than 30 m for frequencies above 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).

No.: RXZ250210040RF01

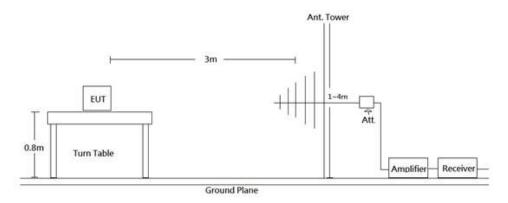
As per FCC §15.247 (d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the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

6.2 EUT Setup

9kHz-30MHz:



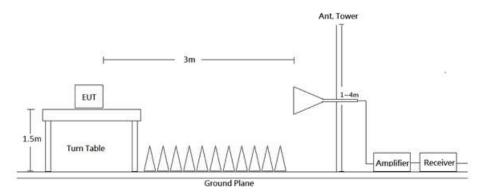
30MHz-1GHz:



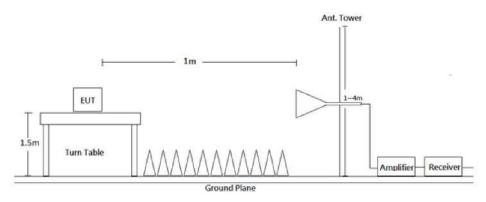
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Page 17 of 76

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 C63.10-2013. The specification used was the FCC Part 15.209 and FCC 15.247 Limits.

No.: RXZ250210040RF01

6.3 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	VBW	Duty cycle	Measurement method	Detector
9 kHz - 150 kHz	200 Hz/300 Hz	1 kHz	/	QP/AV	QP/AV
150 kHz - 30 MHz	9 kHz/10 kHz	30 kHz	/	QP/AV	QP/AV
30-1000 MHz	120 kHz	300 kHz	/	QP	QP
	Pre-scan:				
	1 MHz	3 MHz	/	PK	PK
	1 MHz	1 kHz	>98%	Ave	PK
Above 1 GHz	1 MHz	≥ 1/Ton, not less than 1 kHz	<98%	Ave	PK
	Final measuremen	t for emission iden	tified during p	re-scan:	
	1 MHz	3 MHz	/	PK	PK
	1 MHz	10 Hz	>98%	Ave	PK
	1 MHz	≥ 1/Ton	<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

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Page 18 of 76

6.4 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.

No.: RXZ250210040RF01

6.5 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:

Correct Factor = Antenna Factor + Cable Loss - 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:

Margin = Level - Limit

6.6 Test Results

Test Mode: Transmitting

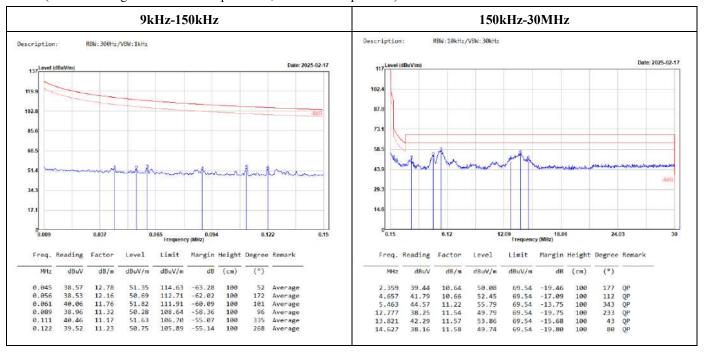
(Pre-scan with three orthogonal axis, and worse case as Z axis.)

WIFI Mode

9kHz-30MHz:

(Worst case is 802.11g mode, low channel)

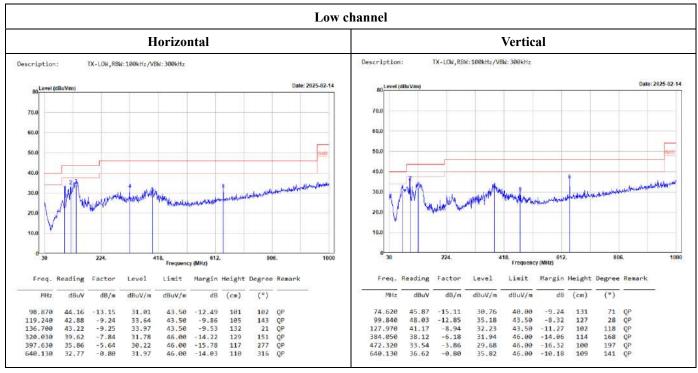
(Pre-scan using three directional polarities, worst case as parallel.)



No.: RXZ250210040RF01

30MHz-1GHz:

(Worst case is 802.11g mode)



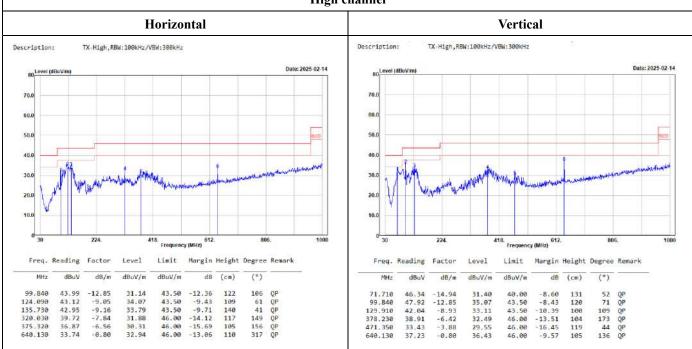
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Page 20 of 76

Middle channel Horizontal Vertical TX-Middle, RBW: 100kHz/VBW: 300kHz Description: Description: TX-Middle,RBW:100kHz/VBW:300kHz Date: 2025-02-14 70.0 60.0 40. 30.6 10.0 418. Frequency (MHz) 418. Frequency (MHz) Reading Reading Factor Limit Margin Height Degree Factor Level Limit Margin Height Degree Remark MHz dBuV dB/m dBuV/m dBuV/m dB 91 159 30 151 147 -12.22 98.870 47.78 -13.15 -9.09 -6.09 -5.57 34.63 43.50 43.50 46.00 46.00 QP -9.24 -9.31 -7.84 -6.47 -0.80 33.96 33.14 31.85 30.35 32.01 110 174 163 151 140 119.240 141.550 320.030 377.260 43.50 43.50 46.00 46.00 -9.54 -10.36 -14.15 -15.65 113 131 120 111 131.850 385.990 403.450 31.68 33.19 31.35 -11.82 -12.81 -14.65 119 125 102 40.77 43.20 42.45 39.69 36.82 32.81 36.92 467.470 34.13 46.00 -15.81 640.130 46.00 -13.99197 640.130

No.: RXZ250210040RF01

High channel



Level = Reading + Factor.

Margin = Level – Limit.

Factor = Antenna Factor + Cable Loss - Amplifier Gain.

Limit Margin Height Degree Remark

(cm)

129

129

143 Average 143 Peak 143 Average

dB

-16.41

-24.20

Band-Edge:

Freq. Reading

108.71 117.04

47.72

59.93

dB/m

-10.60 -10.60

-10.13

-10.13

dBuV/m

98.11 106.44 37.59

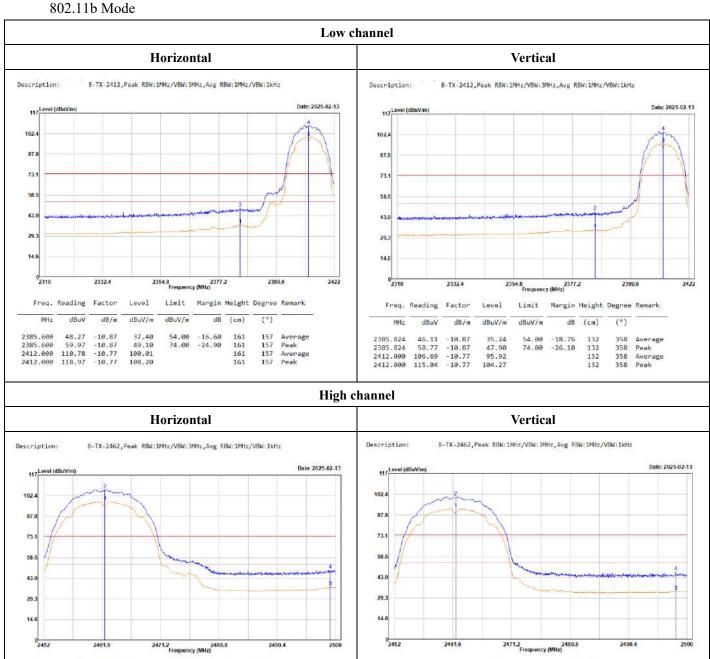
dBuV/m

54.00

MHZ

2462.000 2462.000

2499.136



Freq. Reading

102.96 111.20 44.04

58.06

MHz

2462 888

2462.000 2462.000 2498.128

2498.128

Factor

dB/m

-10.60

-10.60 -10.14

-10.14

Limit Margin Height Degree Remark

146

54.00

74.00 -26.08

33.90

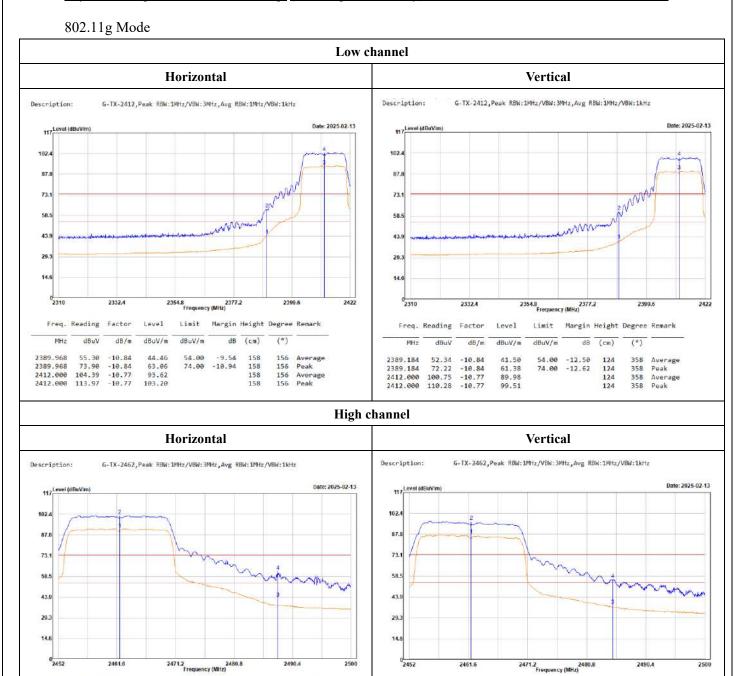
47.92

(°)

341 Average 341 Peak 341 Average

341 Peak

No.: RXZ250210040RF01



Level

Limit Margin Height Degree Remark

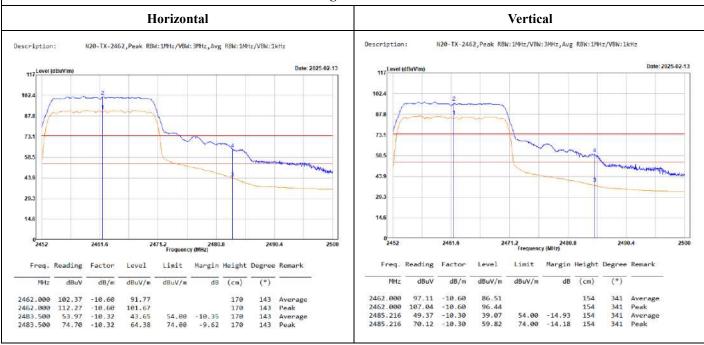
Freq. Reading Factor

Level

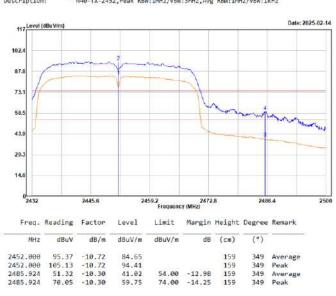
802.11n HT20 Mode

Low channel Horizontal Vertical N20-TX-2412, Peak RBW: 1MHz/VBW: 3MHz, Avg RBW: 1MHz/VBW: 1kHz Description: Description: N20-TX-2412.Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:1kHz Date: 2025-02-13 117 Level (dBuVim) Date: 2025-02-13 102.4 102.4 87.8 73. 73.1 43.9 43.9 29.3 14.6 14.6 2310 2332.4 2354.8 2377.2 Frequency (MHz) 2399.6 2422 2332.4 2354.8 2377.2 Frequency (MHz) Freq. Reading Factor Level Limit Margin Height Degree Remark MHz dB/m dBuV/m dBuV/m dB (cm) dBuV/m dBuV/m dB (cm) MHz dB/m 51.79 73.86 100.44 195 -10.84 -10.84 2389.968 56.11 -10.84 45.27 Average 12 Average 12 Peak 2389.968 2412.000 2412.000 79.33 104.00 113.86 -10.84 -10.77 -10.77 68.49 93.23 103.09 195 195 195 Peak Average Peak 146 146 63.02 146 2389.968 74.00 -10.98 -10.77 -10.77 89.67 99.41 2412.000 146 12 Average 12 Peak 146 2412.000 110.18 146 High channel

No.: RXZ250210040RF01



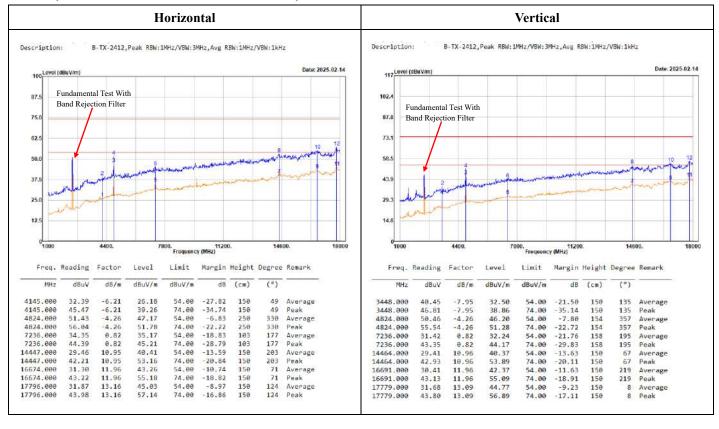
802.11n HT40 Mode Low channel Horizontal Vertical Description: M48-TX-2422, Peak RBW: 1MHz/VBW: 3MHz, Avg RBW: 1MHz/VBW: 1kHz Description: N40-TX-2422, Peak RBW: 1MHz/VBW: 3MHz, Avg RBW: 1MHz/VBW: 1kHz Date: 2025-02-14 102.4 102.4 87. 87.8 73. 73.1 58 43. 29.3 14 2310 2310 2336.4 2362.8 2389.2 Frequency (MHz) 2415.6 2336.4 2362.8 2389.2 Frequency (MHz) 2415.6 2442 Limit Margin Height Degree Remark Freq. Reading Factor Level Freq. Reading Factor Level Limit Margin Height Degree Remark MHz dB/m dBuV/m dB (cm) MHz dBuV dB/m dBuV/m dBuV/m dB 158 Average 158 Peak 2388.936 62.35 -10.85 350 Average 350 Peak -10.85 -10.76 -10.76 63.15 2388,936 79.55 102.41 68.70 74.00 -5.30 158 2385,900 74.01 97.15 -10.86 74.00 -10.85 142 2422.000 2422.000 158 Average 158 Peak 2422.000 -10.76 111.70 High channel Horizontal Vertical Description: N40-TX-2452, Peak RBW: 1MHz/VBW: 3MHz, Avg RBW: 1MHz/VBW: 1kHz N40-TX-2452, Peak RBW: 1MHz/VBW: 3MHz, Avg RBW: 1MHz/VBW: 1kHz Description: Date: 2025.02.1d 117 Level (dBuV/m) Date: 2025-02-14 102. 102 87.8 73.1 73.1 43.9 43.



No.: RXZ250210040RF01

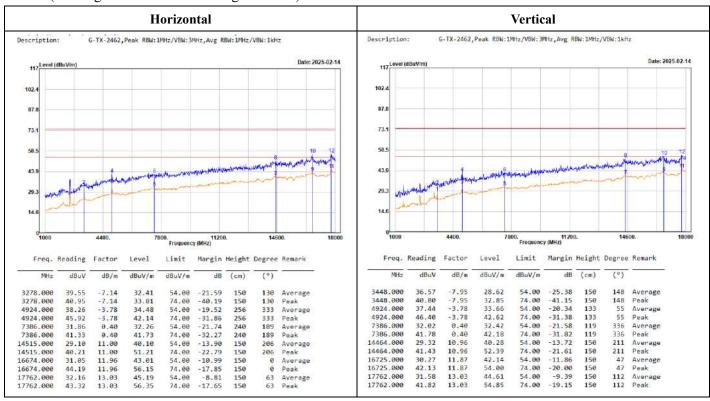
1GHz-18GHz:

(802.11b mode worst case is low channel)



No.: RXZ250210040RF01

(802.11g mode worst case is high channel)

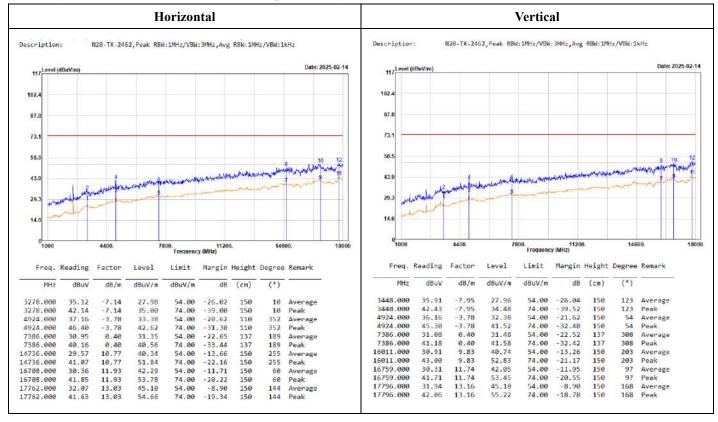


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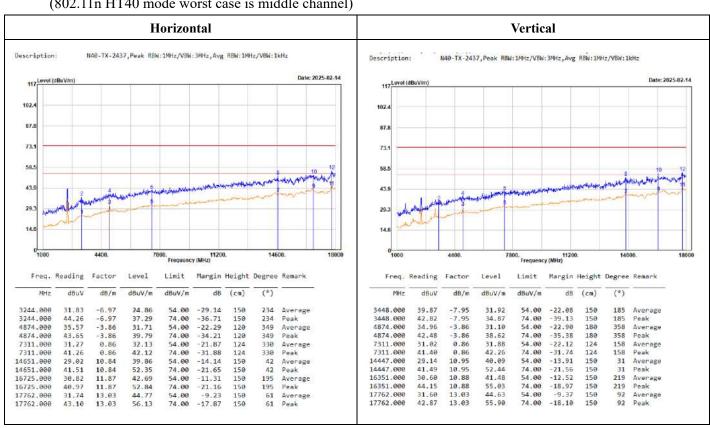
Page 26 of 76

No.: RXZ250210040RF01

(802.11n HT20 mode worst case is high channel)

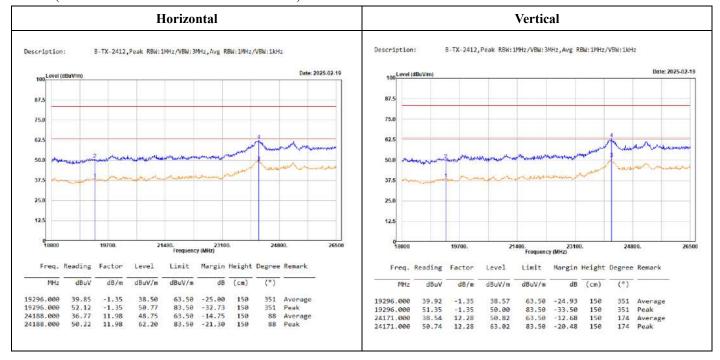


(802.11n HT40 mode worst case is middle channel)



18GHz-26.5GHz:

(802.11b mode worst case is low channel)



No.: RXZ250210040RF01

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 meter:

Conversion factor = $20 \log (1 \text{m}/3 \text{m}) = 9.5 \text{ dB}$,

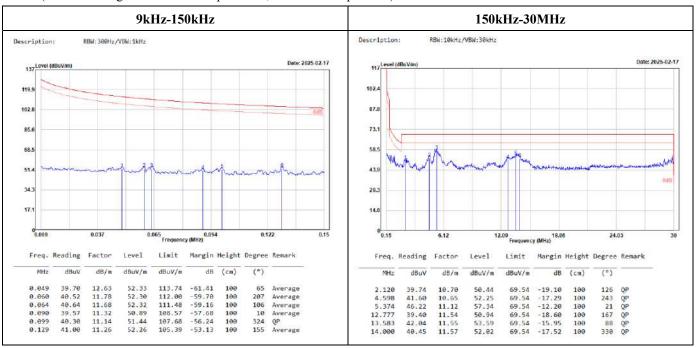
 $Average\ Limit = 54 + 9.5 = 63.50\ dBuV/m@1m\ ,\ Peak\ Limit = 63.50 + 20 = 83.50\ dBuV/m@1m\ ,$

BLE(1M) Mode

9kHz-30MHz:

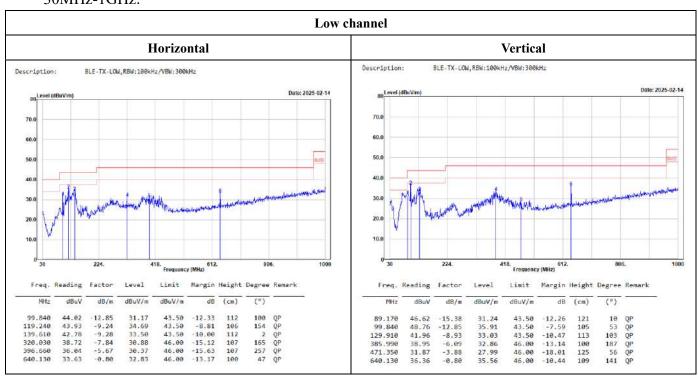
(Worst case is low channel)

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



No.: RXZ250210040RF01

30MHz-1GHz:



No.: RXZ250210040RF01 Vertical BLE-TX-Middle,RBW:100kHz/VBW:300kHz Date: 2025.02.14

Margin Height Degree Remark

78 QP QP QP QP

105 201 213

100

110 106 107

Limit

43.50

43.50 45.00 46.00

46.00

-9.39 -11.36 -13.71 -16.98

-10.51

Level

34.11

32.14 32.29 29.02

35.49

-8.94 -9.28 -6.13 -4.70

-0.80

Middle channel Horizontal BLE-TX-Middle, RBW: 100kHz/VBW: 300kHz Description: 70.0 60.0 Frequency (MHz) 612. Freq. Reading Factor Margin Height Degree Remark dB dB/m dBuV/m 43.50 43.50 43.50 46.00 -12.94 QP QP QP QP QP QP 119.240 136.700 320.030 43.01 42.35 39.86 -9.24 -9.25 -7.84 33.77 33.10 32.02 -9.73 -10.40 -13.98 118 106 125 353 49 164 46.00 46.00 113 148 640.130 32.78 321

High channel

Description:

50.0

30.0

99.840

125.060

137.670 385.020 431.580

640.130

Freq. Reading Factor

43.05

41.42 38.42 33.72

36.29

Horizontal Vertical Description: BLE-TX-High, RBW: 100kHz/VBW: 300kHz BLE-TX-H1gh,RBW:100kHz/VBW:300kHz Description: Date: 2025-02-14 Level (dBuV/m 60. 50.0 30. 20.0 224 224 Limit Freq. Reading Limit Reading Factor Margin Height Degree Margin Height Degree Remark MHz dB/m dBuV/m dBuV/m dB (cm) (°) MHz dBuV dB/m dBuV/m dBuV/m dB (cm) (°) 43.50 43.50 43.50 46.00 46.00 46.00 89.170 99.840 124.090 46.79 47.58 43.53 31.41 34.73 34.48 43.50 43.50 43.50 -12.09 -8.77 -9.02 34 53 46 -15.38 -12.85 140 113 QP -9.24 -8.85 -7.84 -5.57 -0.80 119.240 42.51 33.27 -10.23113 360 126.030 320.030 402.480 640.130 43.48 39.52 36.26 34.76 34.63 31.68 30.69 33.96 -8.87 -14.32 -15.31 -12.04 120 51 155 -9.05 -5.97 105 108 168 187 149 388,900 37.87 31.90 46.00 -14.10 408.300 640.130 36.01 -5.49 -0.80 30.52 -15.48 -10.60 119

Level = Reading + Factor.

Margin = Level - Limit.

 $Factor = Antenna \; Factor + Cable \; Loss - Amplifier \; Gain.$

2482. Frequency (MHz) 2488.

54.00 -17.30

74.00 -25.00

(cm)

109 109

109

146 146 146 Average Peak Average Peak

146

dBuV/m

dB/m

100.46 101.81

36.70 49.00

-10.37 -10.37

-10.32

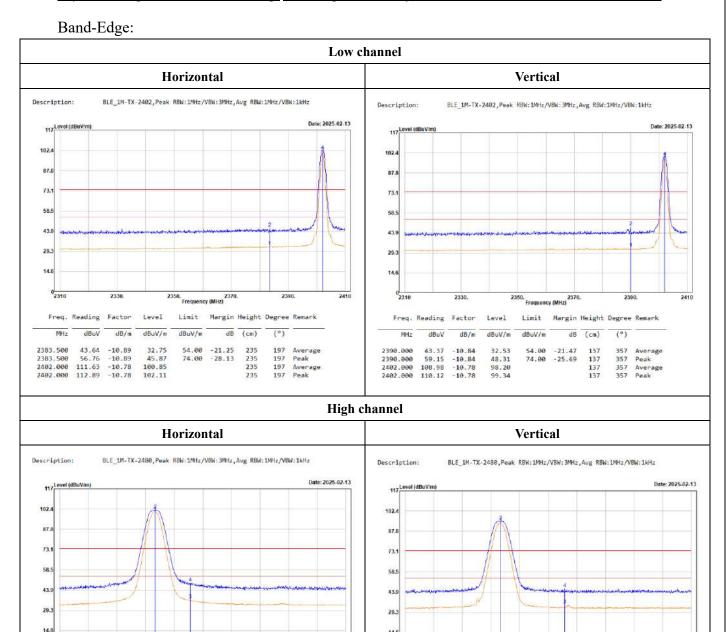
-10.32

110.83 112.18

47.02 59.32

2480.000 2480.000

2483.680



No.: RXZ250210040RF01

2482. Frequency (MHz)

54.00 -19.59

Limit Margin Height Degree Remark

150

150 150 150

Average

343 Peak 343 Average 343 Peak

Level

95.09 34.41 46.43

Freq. Reading Factor

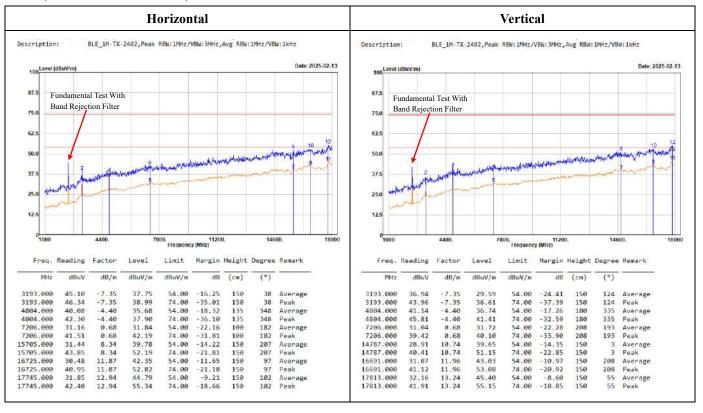
2489.900 195.46 2486.740 44.70 2486.740 56.72

-10.37

-10.37 -10.29 -10.29

1GHz-18GHz:

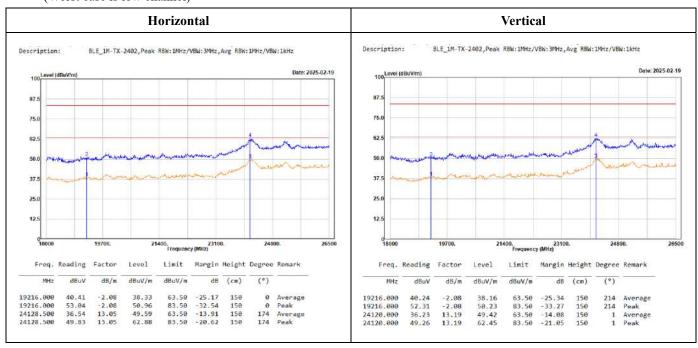
(Worst case is low channel)



No.: RXZ250210040RF01

18GHz-26.5GHz:

(Worst case is 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 meter:

Conversion factor = $20 \log (1 \text{m/3m}) = 9.5 \text{ dB}$,

 $Average\ Limit = 54 + 9.5 = 63.50\ dBuV/m@1m\ ,\ Peak\ Limit = 63.50 + 20 = 83.50\ dBuV/m@1m\ ,$

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Page 32 of 76

Above 1GHz

802.11b Mode:

]	ow channel								
			Hori	izonta	ıl				Vertical								
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark	Freq.	Readi	ng Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		MHz	dBı	ıV dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4145.000	32.39	-6.21	26.18	54.00	-27.82	150	49	Average	3448.000	40.4			54.00	-21.50	150	135	Average
4145.000	45.47	-6.21	39.26	74.00	-34.74	150	49	Peak	3448.006	46.8	31 -7.95	38.86	74.00	-35.14	150	135	Peak
4824.000 4824.000		-4.26 -4.26	47.17 51.78	54.00 74.00	-6.83 -22.22	250 250	330 330	Average Peak	4824.006 4824.006				54.00 74.00	-7.80 -22.72	154 154	357 357	Average Peak
7236.000	34.35	0.82	35.17	54.00	-18.83	103	177	Average	7236.000	31.4	2 0.82	32.24	54.00	-21.76	158	195	Average
7236.000 14447.000		0.82 10.95	45.21 40.41	74.00 54.00	-28.79 -13.59	103 150	177 203	Peak	7236.000 14464.000				74.00 54.00	-29.83 -13.63	158 150	195 67	Peak Average
14447.000		10.95	53.16	74.00	-20.84	150	203	Average Peak	14464.006				74.00	-20.11	150	67	Peak
16674.000	31.30	11.96	43.26	54.00	-10.74	150	71	Average	16691.000				54.00	-11.63	150	219	Average
16674.000 17796.000	43.22 31.87	11.96 13.16	55.18 45.03	74.00 54.00	-18.82 -8.97	150 150	71 124	Peak Average	16691.000 17779.000				74.00 54.00	-18.91 -9.23	150 150	219 8	Peak Average
17796.000		13.16	57.14	74.00	-16.86	150	124	Peak	17779.000				74.00	-17.11	150	8	Peak
								M	ldle channel								
			Hori	izonta	ıl							Ve	rtical				
	Reading	Factor	Level	Limit	Margin			Remark	Freq.	Readi	ng Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		MH:	dB	ıV dB/π	dBuV/m	dBuV/m	dB	(cm)	(°)	
3244.000	39.27	-6.97	32.30	54.00	-21.70	150	202	Average	3448.006				54.00	-22.31	150	302	Average
3244.000 4874.000	41.40 50.18	-6.97 -3.86	34.43 46.32	74.00 54.00	-39.57 -7.68	150 257	202 334	Peak Average	3448.000				74.00	-37.88	150	302	Peak
4874.000	54.06	-3.86	50.20	74.00	-7.68	257	334	Average Peak	4874.006 4874.006				54.00 74.00	-9.25 -25.33	180 180	359 359	Average Peak
7311.000	33.95	0.86	34.81	54.00	-19.19	248	175	Average	7311.000	31.	33 0.86	32.19	54.00	-21.81	132	274	Average
7311.000 14702.000	43.98 28.83	0.86 10.79	44.84 39.62	74.00 54.00	-29.16 -14.38	248 150	175 14	Peak Average	7311.000 15331.000				74.00 54.00	-31.56 -14.62	132 150	274 107	Peak Average
14702.000	41.34	10.79	52.13	74.00	-21.87	150	14	Peak	15331.000	43.4	17 8.93	52.40	74.00	-21.60	150	107	Peak
16487.000 16487.000	30.28 42.46	11.69 11.69	41.97 54.15	54.00 74.00	-12.03 -19.85	150 150	130 130	Average Peak	16657.000 16657.000				54.00 74.00	-10.95 -19.98	150 150	39 39	Average
17762.000	32.09	13.03	45.12	54.00	-8.88	150	53	Average	16657.000 17864.000				74.00 54.00	-19.98 -10.55	150 150	155	Peak Average
17762.000	42.47	13.03	55.50	74.00	-18.50	150	53	Peak	17864.006				74.00	-19.44	150	155	Peak
]	gh channel								
			Hori	izonta	ıl							Ve	rtical				
												·					
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark	Fred	. Read:	ing Facto	r Level	Limit	Margi	n Heigh	t Degre	e Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)			z di	BuV dB/	m dBuV/m	dBuV/n	n di	3 (cm)	(°)	
3278.000 3278.000		-7.14 -7.14	33.00 37.41	54.00 74.00		150 150	89 89	Average	3278.00		10 -7.1						
3278.000 4924.000		-7.14 -3.78	37.41 46.26	74.00 54.00	-36.59 -7.74	150 272	89 334	Peak Average	3278.06 4924.06		.03 -7.1 .21 -3.7						Peak Average
4924.000	54.09	-3.78	50.31	74.00	-23.69	272	334	Peak	4924.06	0 51	26 -3.7	8 47.48	74.00	-26.5	2 132	55	Peak
		0.40	33.23 40.57	54.00 74.00		100 100	199 199	Average Peak	7386.06							326	
7386.000		10.86	39.51	54.00		150	258	Average	7386.00 14804.00		.14 0.4 .15 10.7					326 217	Peak Average
7386.000 7386.000 14634.000			51.18	74.00		150	258	Peak	14804.00		37 10.7						Peak
7386.000 14634.000 14634.000	40.32	10.86															
7386.000 14634.000 14634.000 16487.000	40.32 30.15	11.69	41.84	54.00	-12.16	150 150	19 19	Average Peak	16725.06	0 30	21 11.8		54.00	-11.9	150		Average
7386.000 14634.000 14634.000	40.32 30.15 42.52 30.87				-12.16 -19.79 -9.78	150 150 150 150	19 19 101 101	Average Peak Average Peak	16725.06 16725.06 17779.06 17779.06	0 30 0 41 0 31	21 11.8 52 11.8 87 13.6	7 53.39 9 44.96	54.06 74.06 54.06	9 -11.93 9 -20.63 9 -9.04	2 150 1 150 4 150	183 9	

No.: RXZ250210040RF01

Note:

Level = Reading + Factor.

Margin = Level - Limit.

 $Factor = Antenna \; Factor + Cable \; Loss - Amplifier \; Gain.$

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Page 33 of 76

802.11g Mode:

MHz dBuV dB/m dBuV/m dBuV/m dB (cm) (°)	.000 40.60 .000 31.10 .000 41.55 .000 41.55 .000 31.74 .000 42.79	dB/m -7.95 -7.95 -4.26 -4.26 -4.26 -4.26 -1.92 -1.95 -1.95 -1.95 -1.95 -1.95 -7.95 -7.95 -3.86	Level 32.28 34.59 35.00 42.47 31.76 41.31 39.82 51.52 43.05 53.50 44.83 55.88	Limit dBuV/m 54.00 74.00 54.00 74.00 54.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00	-39,41 -19.00 -31.53 -22.24 -32.69 -14.18 -22.48 -10.95 -20.50 -9.17 -18.12	(cm) 150 150 153 153 153 153 153 153 150 150 150 150 150 150 150 150 150 150	(°) 1 1 357 357 202 202 202 207 277 277	Average Peak Average
MHz	MHz dBuV .000 40.23 .000 42.54 .000 33.26 .000 35.26 .000 42.59 .000 42.59 .000 40.59 .000 40.50	dB/m -7.95 -7.95 -4.26 -4.26 -4.26 -4.26 -1.92 -1.95 -1.95 -1.95 -1.95 -1.95 -7.95 -7.95 -3.86	dBuV/m 32.28 34.59 35.00 42.47 31.76 41.31 39.82 51.52 43.05 53.50 44.83 55.88	dBuV/m 54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00 74.00 rtical	dB -21.72 -39.41 -19.00 -31.53 -22.24 -32.69 -14.18 -22.48 -10.95 -20.50 -9.17 -18.12	(cm) 150 150 153 153 153 153 153 153 150 150 150 150 150 150 150 150 150 150	(°) 1 1 357 357 202 202 202 205 207 277 t Degree- (°) 266 266 266 359	Average Peak Average
3210.000	.000 40.23 .000 42.54 .000 39.26 .000 46.73 .000 30.94 .000 40.49 .000 40.69 .000 41.55 .000 31.74 .000 42.79 .000 42.79 .000 42.79	-7.95 -7.95 -4.26 -4.26 -8.22 10.92 11.95 11.95 13.09 Factor 	32.28 34.59 35.00 42.47 31.76 41.31 39.82 51.52 43.05 53.50 44.83 55.88 Vel	54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00 74.00 74.00 54.00 74.00	-21.72 -39.41 -19.00 -31.53 -22.24 -32.69 -14.18 -22.48 -10.95 -20.50 -9.17 -18.12	150 153 153 153 246 246 150 150 150 150 150 150 150 150 150 150	1 1 357 357 202 202 202 163 163 50 50 277 277	Peak Average Peak
3210.0000	.000 42.54 .000 39.54 .000 30.94 .000 30.94 .000 40.49 .000 40.60 .000 31.10 .000 41.74 .000 42.79 .000 42.79 .000 42.89 .000 44.50 .000 45.00 .000 44.50 .000 48.80	-7.95 -7.95 -4.26 -4.26 -8.22 10.92 11.95 11.95 13.09 Factor 	34.59 35.00 42.47 31.76 41.31 39.82 51.52 43.05 53.50 44.83 55.88 Vel	74.00 54.00 74.00 54.00 74.00 54.00 74.00 74.00 74.00 74.00 74.00 74.00	-39,41 -19.00 -31.53 -22.24 -32.69 -14.18 -22.48 -10.95 -20.50 -9.17 -18.12	150 153 153 246 246 150 150 150 150 150 150 150 150 150 150	1 1 357 357 202 202 202 163 163 50 50 277 277	Peak Average Peak
3210.0000	.000 42.54 .000 39.54 .000 30.94 .000 30.94 .000 40.49 .000 40.60 .000 31.10 .000 41.74 .000 42.79 .000 42.79 .000 42.89 .000 44.50 .000 45.00 .000 44.50 .000 48.80	-7.95 -4.26 -4.26 -8.22 10.92 11.95 11.95 13.09 13.09	34.59 35.00 42.47 31.76 41.31 39.82 51.52 43.05 53.50 44.83 55.88 Vel	74.00 54.00 74.00 54.00 74.00 54.00 74.00 74.00 74.00 74.00 74.00 74.00	-39,41 -19.00 -31.53 -22.24 -32.69 -14.18 -22.48 -10.95 -20.50 -9.17 -18.12	150 153 153 246 246 150 150 150 150 150 150 150 150 150 150	1 357 202 202 202 163 163 50 277 277 277	Peak Average Peak
### ### ### ### ### ### ### ### ### ##	.000 39.26 .000 46.73 .000 30.94 .000 30.94 .000 28.90 .000 28.90 .000 40.60 .000 31.74 .000 41.55 .000 42.79 .000 42.79 .000 42.79 .000 40.59 .000 40.59 .000 40.59 .000 48.80	-4.26 -4.26 -8.2 0.82 10.92 11.95 11.95 13.09 13.09	35.00 42.47 31.76 41.31 39.82 51.52 43.05 53.50 44.83 55.88 Vel	54.00 74.00 74.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00 **Ttical** Limit** dBuV/m 54.00 74.00	-19.00 -31.53 -22.24 -32.69 -14.18 -22.48 -10.95 -20.50 -9.17 -18.12	153 153 246 246 150 150 150 150 150 (cm)	357 357 202 202 202 163 50 50 277 277 277	Average Peak Average Peak Average Peak Average Peak Average Peak Average Average Average
T236.000	.000 30.94 .000 40.49 .000 28.90 .000 40.60 .000 31.00 .000 31.00 .000 41.55 .000 42.79 .000 42.79 .000 40.59 .000 40.59 .000 40.59 .000 48.30	0.82 0.82 10.92 11.95 11.95 13.09 13.09	31.76 41.31 39.82 51.52 43.05 53.50 44.83 55.88 Vel Level dBuV/m 32.64 37.32 34.22	54.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 rtical Limit dBuV/m 54.00 74.00	-22.24 -32.69 -14.18 -22.48 -10.95 -20.50 -9.17 -18.12 Margin dB -21.36 -36.68 -19.78	246 246 150 150 150 150 150 (cm)	202 202 203 163 50 50 277 277 277 277	Average Peak Average Peak Average Peak Average Peak Average Average Peak Average
Trigon	.000 40.49 .000 28.90 .000 40.60 .000 31.10 .000 31.74 .000 42.79 .000 42.79 .000 42.79 .000 40.59 .000 40.59 .000 48.81 .000 48.81 .000 48.81	0.82 10.92 11.95 11.95 13.09 13.09	41.31 39.82 51.52 43.05 53.50 44.83 55.88 Vel	74.00 54.00 74.00 54.00 74.00 74.00 74.00 rtical Limit dBuV/m 54.00 74.00	-32.69 -14.18 -22.48 -10.95 -20.50 -9.17 -18.12 Margin dB	246 150 150 150 150 150 150 150 150 150 150	202 163 163 50 50 277 277 277 276 (°) 266 266 359	Peak Average Peak Average Peak Average Peak Average Peak Average Average
1438.0e0e	.000 28.90 .000 40.60 .000 41.50 .000 41.50 .000 41.51 .000 42.79 .000 42.79 .000 48.59 .000 48.59 .000 48.59 .000 48.59 .000 48.59 .000 48.88 .000 48.88	10.92 10.92 11.95 11.95 13.09 13.09	39.82 51.52 43.05 53.50 44.83 55.88 Vel	54.00 74.00 74.00 74.00 74.00 74.00 rtical Limit dBuV/m 54.00 74.00	-14.18 -22.48 -10.95 -20.50 -9.17 -18.12 Margin dB -21.36 -36.68 -19.78	150 150 150 150 150 150 150 150 150 150	163 163 50 50 277 277 277 b Degree (°) 266 266 266 359	Average Peak Average Peak Average Peak Average Peak Average Peak
1438.0e0 40.76 10.93 51.69 74.00 -22.31 150 160 Average 1654.0e0 30.96 11.96 42.92 54.00 -11.08 150 100 Average 1664 16674.0e0 42.15 11.96 54.11 74.00 -19.80 150 100 Peak 1664 17762.0e0 31.81 13.03 44.84 54.00 -9.16 150 2 Average 1777 17762.0e0 42.60 13.03 55.63 74.00 -18.37 150 2 Peak 1777 1777	.000 40.50 .000 31.10 .000 41.55 .000 31.74 .000 42.79 .000 42.79 .000 40.59 .000 40.59 .000 40.59 .000 48.88 .000 48.88	Factor -7.95 -7.95 -3.86	51.52 43.65 53.50 44.83 55.88 Vel	74.00 54.00 74.00 54.00 74.00 rtical Limit dBuV/m 54.00 74.00	-22.48 -10.95 -20.50 -9.17 -18.12 Margin dB -21.366 -36.68 -19.78	150 150 150 150 150 150 150 150 (cm)	163 50 50 277 277 277 t Degree (°) 266 266 359	Peak Average Peak Average Peak Average Peak Average Peak Average Peak Average
16674.0000	-000 41.55 .000 31.74 .000 42.79 Freq. Reading MHz dBuV 3.000 40.59 3.000 45.27 1.000 38.08	11.95 13.09 13.09 Factor dB/m -7.95 -7.95 -3.86	53.50 44.83 55.88 Vel Level dBuV/m 32.64 37.32 34.22	74.00 54.00 74.00 rtical Limit dBuV/m 54.00 74.00	-20.50 -9.17 -18.12 Margin -21.366 -36.68	150 150 150 150 150	50 277 277 t Degree (°) 266 266 359	Peak Average Peak Average Peak Average Peak Average Peak Average Peak
Troise	Freq. Reading MHz dBuV 8.000 44.59 8.000 45.27 8.000 38.08 8.000 48.88 8.000 48.88	13.09 13.09 Factor dB/m -7.95 -7.95 -3.86	Vel Level dBuV/m 32.64 37.32 34.22	54.00 74.00 rtical Limit dBuV/m 54.00 74.00	-9.17 -18.12 Margin 	Height (cm) 150 150 150 150 150 150 150 150 150 150	277 277 277 t Degree (°) 266 266 359	e Remark Average Peak Average Peak Average Peak
### Middle channel Horizontal Horizontal	Freq. Reading MHz dBuV 3.000 40.59 3.000 45.27 1.000 38.08 1.000 48.30	Factor dB/m -7.95 -7.95 -3.86	Level dBuV/m 32.64 37.32 34.22	74.00 rtical Limit dBuV/m 54.00 74.00	Margin dB -21.366 -36.688 -19.78	Height (cm) 150 150 153	277 t Degree (°) 266 266 359	e Remark Average Peak Average Peak
Horizontal Freq. Reading Factor Level Limit Margin Height Degree Remark MHz dBuV dB/m dBuV/m dBuV/m dB (cm) (°)	MHz dBuV 3.000 40.59 3.000 45.27 1.000 38.08 1.000 48.30	-7.95 -7.95 -3.86	Level dBuV/m 32.64 37.32 34.22	Limit dBuV/m 54.00 74.00	-21.36 -36.68	(cm) 150 150 153	(°) 266 266 359	Average Peak Average Peak
Freq. Reading Factor Level Limit Margin Height Degree Remark MHz dBuV dB/m dBuV/m dBuV/m dB (cm) (°)	MHz dBuV 3.000 40.59 3.000 45.27 1.000 38.08 1.000 48.30	-7.95 -7.95 -3.86	Level dBuV/m 32.64 37.32 34.22	Limit dBuV/m 54.00 74.00	-21.36 -36.68	(cm) 150 150 153	(°) 266 266 359	Average Peak Average Peak
MHz dBuV dB/m dBuV/m dBuV/m dB (cm) (°) 3244.000 37.83 -6.97 30.86 54.00 -23.14 150 240 Average 344 3244.000 42.03 -6.97 35.06 74.00 -38.94 150 240 Peak 344 874.000 39.04 -3.86 35.18 54.00 -18.82 245 333 Average 487 4874.000 39.04 -3.86 54.22 74.00 -28.78 245 333 Peak 487 7311.000 32.64 0.86 33.50 54.00 -20.50 118 177 Average 731 15399.000 41.92 0.86 42.78 74.00 -31.22 118 177 Peak 731 15399.000 30.88 8.84 39.72 54.00 -14.28 150 22 Average 1437 16623.000 30.81 11.94 42.75 54.00 -11.25 150 115 Average 1636 16623.000 30.81 11.94 53.72 74.00 -20.58 150 115 Average 1636 16623.000 30.74 13.35 44.09 54.00 -20.50 118 179 Peak 1636 16780.000 41.88 13.35 55.23 74.00 -18.77 150 205 Peak 1776	MHz dBuV 3.000 40.59 3.000 45.27 1.000 38.08 1.000 48.30	-7.95 -7.95 -3.86	dBuV/m 32.64 37.32 34.22	dBuV/m 54.00 74.00	-21.36 -36.68	(cm) 150 150 153	(°) 266 266 359	Average Peak Average Peak
MHz dBuV dB/m dBuV/m dBuV/m dB (cm) (°) 3244.000 37.83 -6.97 30.86 54.00 -23.14 150 240 Average 344 3244.000 42.03 -6.97 35.06 74.00 -38.94 150 240 Peak 344 874.000 39.04 -3.86 35.18 54.00 -18.82 245 333 Average 487 4874.000 39.04 -3.86 54.22 74.00 -28.78 245 333 Peak 487 7311.000 32.64 0.86 33.50 54.00 -20.50 118 177 Average 731 15399.000 41.92 0.86 42.78 74.00 -31.22 118 177 Peak 731 15399.000 30.88 8.84 39.72 54.00 -14.28 150 22 Average 1437 16623.000 30.81 11.94 42.75 54.00 -11.25 150 115 Average 1636 16623.000 30.81 11.94 53.72 74.00 -20.58 150 115 Average 1636 16623.000 30.74 13.35 44.09 54.00 -20.50 118 179 Peak 1636 16780.000 41.88 13.35 55.23 74.00 -18.77 150 205 Peak 1776	MHz dBuV 3.000 40.59 3.000 45.27 1.000 38.08 1.000 48.30	-7.95 -7.95 -3.86	dBuV/m 32.64 37.32 34.22	dBuV/m 54.00 74.00	-21.36 -36.68	(cm) 150 150 153	(°) 266 266 359	Average Peak Average Peak
3244.000 37.83 -6.97 30.86 54.00 -23.14 150 240 Average 344 3244.000 42.03 -6.97 35.06 74.00 -38.94 150 240 Peak 344 4874.000 39.04 -3.86 35.18 54.00 -18.82 245 333 Average 487 4874.000 32.64 0.86 33.50 54.00 -28.78 245 333 Peak 487 7311.000 32.64 0.86 33.50 54.00 -20.50 118 177 Average 731 15399.000 41.92 0.86 42.78 74.00 -31.22 118 177 Peak 731 15399.000 30.88 8.84 39.72 54.00 -14.28 150 22 Average 1437 16623.000 30.81 11.94 42.75 54.00 -11.25 150 125 Peak 1437 16623.000 30.81 11.94 55.72 74.00 -20.58 150 15 Average 1636 16623.000 30.74 13.35 44.09 54.00 -9.91 150 205 Peak 1637 17830.000 41.88 13.35 55.23 74.00 -18.77 150 205 Peak	3.000 40.59 3.000 45.27 1.000 38.08 1.000 48.30	-7.95 -7.95 -3.86	32.64 37.32 34.22	54.00 74.00	-21.36 -36.68 -19.78	150 150 153	266 266 359	Peak Average Peak
3244_000	3.000 45.27 1.000 38.08 1.000 48.30	-7.95 -3.86	37.32 34.22	74.00	-36.68 -19.78	150 153	266 359	Peak Average Peak
3244.000 42.03 -6.97 35.06 74.00 -38.94 150 240 Peak 4874.000 39.04 -3.86 35.18 54.00 -18.82 245 333 Average 487 4874.000 49.08 -3.86 45.22 74.00 -28.78 245 333 Peak 487 311.000 41.02 0.86 42.78 74.00 -20.50 118 177 Average 731 15399.000 41.92 0.86 42.78 74.00 -11.22 118 177 Peak 731 15399.000 43.37 8.84 52.21 74.00 -14.28 150 22 Average 1437 1633.000 43.37 8.84 52.21 74.00 -21.79 150 22 Peak 1437 1633.000 30.81 11.94 42.75 54.00 -11.25 150 115 Average 1636 16623.000 41.78 11.94 53.72 74.00 -20.28 150 115 Peak 1638 1783.000 30.74 13.35 44.09 54.00 -9.91 150 205 Average 1776 17830.000 41.88 13.35 55.23 74.00 -18.77 150 205 Peak 1776	3.000 45.27 1.000 38.08 1.000 48.30	-7.95 -3.86	37.32 34.22	74.00	-36.68 -19.78	150 153	266 359	Peak Average Peak
4874,000 49.08 -3.86 45.22 74.00 -28.78 245 333 Peak 487 7311.000 32.64 0.86 33.50 54.00 -20.50 118 177 Average 731 151.000 41.92 0.86 42.78 74.00 -31.22 118 177 Peak 731 15399.000 30.88 8.84 39.72 54.00 -14.28 150 22 Average 1437 16399.000 43.37 8.84 52.21 74.00 -21.79 150 22 Peak 1437 16623.000 30.81 11.94 42.75 54.00 -11.25 150 115 Average 1636 16623.000 41.78 11.94 53.72 74.00 -20.28 150 115 Peak 1638 17830.000 41.88 13.35 55.23 74.00 -18.77 150 205 Peak 1776	1.000 48.30			54.00				Peak
7311.000 32.64 0.86 33.50 54.00 -20.50 118 177 Average 731 7311.000 41.92 0.86 42.78 74.00 -31.22 118 177 Peak 731 15399.000 30.88 8.84 39.72 54.00 -14.28 150 22 Average 1437 15399.000 30.81 18.84 52.21 74.00 -21.79 150 22 Peak 1437 16623.000 30.81 11.94 42.75 54.00 -11.25 150 115 Average 1636 16623.000 41.78 11.94 42.75 54.00 -11.25 150 115 Average 1636 16623.000 30.74 13.35 44.09 54.00 -20.28 150 115 Peak 1636 17830.000 41.88 13.35 55.23 74.00 -18.77 150 205 Peak 1776				74.00	-29.56			
731 1.000 41.92 0.86 42.78 74.00 -31.22 118 177 Peak 731 15399.000 30.88 8.84 39.72 54.00 -14.28 150 22 Average 1437 15399.000 43.37 8.84 52.21 74.00 -21.79 150 22 Peak 1437 16623.000 30.81 11.94 42.75 54.00 -11.25 150 115 Average 1636 16623.000 41.78 11.94 53.72 74.00 -20.28 150 115 Peak 1636 17830.000 41.78 13.35 44.09 54.00 -9.91 150 205 Average 1776 17830.000 41.88 13.35 55.23 74.00 -18.77 150 205 Peak 1776			31.90	54.00			268	Average
1539,000 43.37 8.84 52.21 74.00 -21.79 150 22 Peak 1437 16623.000 30.81 11.94 42.75 54.00 -11.25 150 115 Average 1636.000 41.78 11.94 53.72 74.00 -20.28 150 115 Peak 1636 17830.000 30.74 13.35 44.09 54.00 -9.91 150 205 Average 1776 17830.000 41.88 13.35 55.23 74.00 -18.77 150 205 Peak 1636 1776	.000 42.57	0.86	43.43	74.00			268	
1623.000 30.81 11.94 42.75 54.00 -11.25 150 115 Average 1636 1623.000 41.78 11.94 53.72 74.00 -20.28 150 115 Peak 1636 1636 1636 1636 1636 1636 1636 163			39.55 50.87	54.00 74.00			159 159	
17830.000 30.74 13.35 44.09 54.00 -9.91 150 205 Average 1776 17830.000 41.88 13.35 55.23 74.00 -18.77 150 205 Peak 1776	3.000 31.17	10.97	42.14	54.00	-11.86	150	13	Average
17830.000 41.88 13.35 55.23 74.00 -18.77 150 205 Peak 1776 High channel	3.000 42.85	10.97	53.82	74.00			13	
	2.000 31.79 2.000 42.51	13.03 13.03	44.82 55.54	54.00 74.00			174 174	
	Vertical							
Freq. Reading Factor Level Limit Margin Height Degree Remark	req. Reading	Factor	Level	Limit	Margin	Height	Degree	e Remark
MHz dBuV dB/m dBuV/m dBuV/m dB (cm) (°)	MHz dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
	3.000 36.57	-7.95	28.62	54.00			148	
3278.000 40.95 -7.14 33.81 74.00 -40.19 150 130 Peak	3.000 40.80	-7.95	32.85	74.00			148	
	1.000 37.44 1.000 46.40	-3.78 -3.78	33.66 42.62	54.00 74.00			55 55	Average Peak
7386.000 31.86 0.40 32.26 54.00 -21.74 240 189 Average 738	32.02	0.40	32.42	54.00	-21.58	119	336	Average
7386.000 41.33 0.40 41.73 74.00 -32.27 240 189 Peak 738	.000 41.78	0.40	42.18	74.00			336	Peak
		10.96 10.96	40.28 52.39	54.00 74.00			211 211	Average Peak
16674.000 31.05 11.96 43.01 54.00 -10.99 150 0 Average 1672	1.000 29.32 1.000 41.43	11.87	42.14	54.00	-11.86	150	47	Average
16674.000 44.19 11.96 56.15 74.00 -17.85 150 0 Peak	1.000 41.43 5.000 30.27		54.00	74.00			47 112	Peak Average
17762.000 32.16 13.03 45.19 54.00 -8.81 150 63 Average 1776 17762.000 43.32 13.03 56.35 74.00 -17.65 150 63 Peak 1776	1.000 41.43 5.000 30.27 5.000 42.13	11.87 13.03	44.61	54.00				

No.: RXZ250210040RF01

Note:

Level = Reading + Factor.

Margin = Level-Limit.

 $Factor = Antenna \; Factor + Cable \; Loss - Amplifier \; Gain.$

802.11n HT20 Mode:

								L	w channel										
			Horiz	zonta	l					Vertical									
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark	Freq.	Reading	Factor	Level	Limit	Margin	Height	: Degree	Remark		
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		MH:	dBu\	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)			
3210.000	39.78	-7.25	32.53	54.00	-21.47	150	111	Average	3448.000	39.95	-7.95	32.00	54.00	-22.00	150	244	Average		
3210.000		-7.25	36.23	74.00	-37.77	150	111	Peak	3448.000			35.06	74.00			244	Peak		
4824.000 4824.000		-4.26 -4.26	34.46 44.63	54.00 74.00	-19.54 -29.37	123 123	348 348	Average Peak	4824.000 4824.000			34.17 43.10	54.00 74.00			359 359	Average Peak		
7236.000	31.29	0.82	32.11	54.00	-21.89	124	179	Average	7236.000	31.22	0.82	32.04	54.00	-21.96	245	196	Average		
7236.000 14872.000		0.82 10.41	41.46 39.57	74.00 54.00	-32.54 -14.43	124 150	179 70	Peak Average	7236.000 14430.000			40.82 40.46	74.00 54.00	-33.18 -13.54		196 20	Peak		
14872.000		10.41	53.05	74.00	-20.95	150	70	Peak	14430.000			53.18	74.00			20	Average Peak		
16623.000 16623.000		11.94	43.21 53.25	54.00 74.00	-10.79 -20.75	150 150	208 208	Average Peak	16793.000	30.14	11.61	41.75	54.00	-12.25	150	233	Average		
17762.000		11.94	44.89	54.00	-20.75	150	19	Peak Average	16793.000 17745.000			53.76 44.38	74.00 54.00	-20.24 -9.62		233 105	Peak Average		
17762.000		13.03	55.07	74.00		150	19	Peak	17745.000			56.46	74.00			105	Peak		
								Mi	dle channel										
			Hori	zonta	l							Vei	rtical						
Fnoa	Reading	Factor	Level	Limit	Margin H	Joi abt	Dognoo	Pomonk											
MHz	dBuV	dB/m	dBuV/m	dBuV/m		(cm)	(°)		Freq.	Reading dBuV	Factor ————————————————————————————————————	Level dBuV/m	Limit dBuV/m	Margin dB	Height (cm)	Degree (°)	Remark		
3244.000	34.28	-6.97	27.31	54.00	-26.69	150	37												
3244.000	41.62	-6.97	34.65	74.00	-39.35	150	37	Average Peak	3448.000 3448.000	40.30 43.77	-7.95 -7.95	32.35 35.82	54.00 74.00	-21.65 -38.18	150 150		Average Peak		
4874.000	38.34	-3.86	34.48	54.00	-19.52	100	350	Average	4874.000	37.88	-3.86	34.02	54.00	-19.98	154	360	Average		
4874.000 7311.000	47.58 31.44	-3.86 0.86	43.72 32.30	74.00 54.00	-30.28 -21.70	100 130	350 174	Peak Average	4874.000 7311.000	49.24 30.91	-3.86 0.86	45.38 31.77	74.00 54.00	-28.62 -22.23	154 100	360 57	Peak Average		
7311.000	42.05	0.86	42.91	74.00	-31.09	130	174	Peak	7311.000	40.83	0.86	41.69	74.00	-32.31	100	57	Peak		
15025.000 15025.000	29.62 41.52	10.13 10.13	39.75 51.65	54.00 74.00	-14.25 -22.35	150 150	241 241	Average Peak	14277.000 14277.000	28.32 41.71	10.25 10.25	38.57 51.96	54.00 74.00	-15.43 -22.04	150 150	166 166	Average Peak		
16674.000	31.43	11.96	43.39	54.00	-10.61	150	88	Average	16674.000	30.80	11.96	42.76	54.00	-11.24	150	299	Average		
16674.000 17762.000		11.96 13.03	53.97 44.93	74.00 54.00	-20.03 -9.07	150 150	88 126	Peak Average	16674.000	42.09	11.96	54.05	74.00	-19.95	150		Peak		
17762.000		13.03	56.45	74.00	-17.55	150	126	Peak	17847.000 17847.000	30.13 41.19	13.44 13.44	43.57 54.63	54.00 74.00	-10.43 -19.37	150 150	90 90	Average Peak		
								Н	gh channel										
	,		Horiz	zonta	l							Vei	rtical						
		Factor	Level	Limit	Margin H			Remark		Reading		Level	Limit			Degree	Remark		
	Reading						(°)				dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)			
MHz	dBuV	dB/m	dBuV/m	dBuV/m		(cm)		Average	MHz	dBuV		27.00	E4 00	26.04	150	122	A		
MHz 3278.000 3278.000	dBuV 35.12 42.14	dB/m -7.14 -7.14	27.98 35.00	54.00 74.00	-26.02 -39.00	150 150	10 10	Average Peak	MHz 3448.000 3448.000	35.91	-7.95	27.96 34.48	54.00 74.00	-26.04 -39.52		123 123	Average Peak		
MHz 3278.000 3278.000 4924.000	35.12 42.14 37.16	-7.14 -7.14 -3.78	27.98 35.00 33.38	54.00 74.00 54.00	-26.02 -39.00 -20.62	150 150 110	10 10 352	Peak Average	3448.000 3448.000 4924.000	35.91 42.43 36.16	-7.95 -7.95 -3.78	34.48 32.38	74.00 54.00	-39.52 -21.62	150 150	123 54	Peak Average		
3278.000 3278.000 4924.000 4924.000	35.12 42.14 37.16	dB/m -7.14 -7.14	27.98 35.00	54.00 74.00	-26.02 -39.00	150 150	10 10	Peak Average Peak	3448.006 3448.006 4924.006 4924.006	35.91 42.43 36.16 45.30	-7.95 -7.95 -3.78 -3.78	34.48 32.38 41.52	74.00	-39.52 -21.62 -32.48	150 150 150	123	Peak Average Peak		
MHz 3278.000 3278.000 4924.000 4924.000 7386.000 7386.000	35.12 42.14 37.16 46.40 30.95 40.16	dB/m -7.14 -7.14 -3.78 -3.78 0.40 0.40	27.98 35.00 33.38 42.62 31.35 40.56	54.00 74.00 54.00 74.00 54.00 74.00	-26.02 -39.00 -20.62 -31.38 -22.65 -33.44	150 150 110 110 137 137	10 10 352 352 189 189	Peak Average Peak Average Peak	3448.006 3448.006 4924.006 4924.006 7386.006 7386.006	35.91 42.43 36.16 45.30 31.08 41.18	-7.95 -7.95 -3.78 -3.78 0.40 0.40	34.48 32.38 41.52 31.48 41.58	74.00 54.00 74.00 54.00 74.00	-39.52 -21.62 -32.48 -22.52 -32.42	150 150 150 137 137	123 54 54 308 308	Peak Average Peak Average Peak		
3278.000 3278.000 4924.000 4924.000 7386.000 7386.000	dBuV 35.12 42.14 37.16 46.40 30.95 40.16 29.57	dB/m -7.14 -7.14 -3.78 -3.78 0.40 0.40 10.77	27.98 35.00 33.38 42.62 31.35 40.56 40.34	54.00 74.00 54.00 74.00 54.00 74.00 54.00	-26.02 -39.00 -20.62 -31.38 -22.65 -33.44 -13.66	150 150 110 110 137 137 150	10 10 352 352 189 189 255	Peak Average Peak Average Peak Average	3448.006 3448.006 4924.006 4924.006 7386.006 7386.006	35.91 42.43 36.16 45.30 31.08 41.18 30.91	-7.95 -7.95 -3.78 -3.78 0.40 0.40 9.83	34.48 32.38 41.52 31.48 41.58 40.74	74.00 54.00 74.00 54.00 74.00 54.00	-39.52 -21.62 -32.48 -22.52 -32.42 -13.26	150 150 150 137 137 150	123 54 54 308 308 203	Peak Average Peak Average Peak Average		
3278.000 3278.000 4924.000 4924.000 7386.000 7386.000 14736.000 14736.000 16708.000	dBuV 35.12 42.14 37.16 46.40 30.95 40.16 29.57 41.07 30.36	dB/m -7.14 -7.14 -3.78 -3.78 -0.40 0.40 10.77 10.77 11.93	27.98 35.00 33.38 42.62 31.35 40.56 40.34 51.84 42.29	54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00	-26.02 -39.00 -20.62 -31.38 -22.65 -33.44 -13.66 -22.16 -11.71	150 150 110 110 137 137 150 150	10 10 352 352 189 189 255 255	Peak Average Peak Average Peak	3448.006 3448.006 4924.006 4924.006 7386.006 7386.006	35.91 42.43 36.16 45.30 31.08 41.18 30.91 43.00	-7.95 -7.95 -3.78 -3.78 0.40 0.40 9.83 9.83	34.48 32.38 41.52 31.48 41.58	74.00 54.00 74.00 54.00 74.00	-39.52 -21.62 -32.48 -22.52 -32.42	150 150 150 137 137	123 54 54 308 308 203 203 97	Peak Average Peak Average Peak		
3278.000 3278.000 4924.000 4924.000 7386.000 7386.000 14736.000	dBuV 35.12 42.14 37.16 46.40 30.95 40.16 29.57 41.07	dB/m -7.14 -7.14 -3.78 -3.78 0.40 0.40 10.77 10.77	27.98 35.00 33.38 42.62 31.35 40.56 40.34 51.84	54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00	-26.02 -39.00 -20.62 -31.38 -22.65 -33.44 -13.66 -22.16	150 150 110 110 137 137 150 150	10 10 352 352 189 189 255 255	Peak Average Peak Average Peak Average Peak	3448.006 3448.006 4924.006 4924.006 7386.006 7386.006 16011.006	35.91 42.43 36.16 45.30 31.08 41.18 30.91 43.00 30.31 41.71	-7.95 -7.95 -3.78 -3.78 0.40 0.40 9.83 9.83 11.74	34.48 32.38 41.52 31.48 41.58 40.74 52.83	74.00 54.00 74.00 54.00 74.00 54.00 74.00	-39.52 -21.62 -32.48 -22.52 -32.42 -13.26 -21.17	150 150 150 137 137 150 150 150	123 54 54 308 308 203 203	Peak Average Peak Average Peak Average Peak		

No.: RXZ250210040RF01

Note:

Level = Reading + Factor.

Margin = Level-Limit.

 $Factor = Antenna \; Factor + Cable \; Loss - Amplifier \; Gain.$

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

Page 35 of 76

802.11n HT40 Mode:

									w channel								
			Hori	zonta	ıl							Ver	tical				
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark	Freq.	Reading	g Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		MHz	dBu\	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
3227.000	38.16	-7.11	31.05	54.00	-22.95	150	106	Average	3227.000	40.21	-7.11	33.10	54.00	-20.90	150	2	Average
3227.000	42.15	-7.11	35.04	74.00	-38.96	150	106	Peak	3227.000	43.07	-7.11	35.96	74.00	-38.04	150	2	Peak
4844.000	36.51	-4.12	32.39	54.00	-21.61	110	349	Average	4844.000			31.71	54.00	-22.29	185	358	Average
4844.000 7266.000	45.83 31.26	-4.12 0.90	41.71 32.16	74.00 54.00	-32.29 -21.84	110 120	349 195	Peak Average	4844.000 7266.000			40.44 32.21	74.00 54.00	-33.56 -21.79	185 141	358 186	Peak Average
7266.000	40.84	0.90	41.74	74.00	-32.26	120	195	Peak	7266.000	40.43	0.90	41.33	74.00	-32.67	141	186	Peak
15042.000	29.95	10.06	40.01	54.00	-13.99	150 150	222	Average	15110.000			39.43	54.00 74.00	-14.57	150 150	260	Average
15042.000 16742.000	42.03 30.42	10.06 11.81	52.09 42.23	74.00 54.00	-21.91 -11.77	150	222 77	Peak Average	15110.000 16606.000			51.20 42.54	54.00	-22.80 -11.46	150	260 51	Peak Average
16742.000	43.72	11.81	55.53	74.00	-18.47	150	77	Peak	16606.000	42.56	11.94	54.50	74.00	-19.50	150	51	Peak
17745.000 17745.000	31.58 44.45	12.94 12.94	44.52 57.39	54.00 74.00	-9.48 -16.61	150 150	6 6	Average Peak	17915.000 17915.000			43.20 55.28	54.00 74.00	-10.80 -18.72	150 150	129 129	Average Peak
								18./									
								10.	dle channel			T 7					
			Hori	zonta	ı l							Ver	tical				
Freq.	Reading	Factor	Level	Limit	Margin	Height		Remark		Reading		Level	Limit	Margin			Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		MHz	dBu\	/ dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
3244.000	31.83	-6.97	24.86	54.00	-29.14	150		Average	3448.000 3448.000			31.92 34.87	54.00 74.00	-22.08 -39.13	150 150	185	Average
3244.000 4874.000	44.26 35.57	-6.97 -3.86	37.29 31.71	74.00 54.00	-36.71 -22.29	150 120	234 349	Peak Average	4874.000			34.87	54.00	-39.13	180	185 358	Peak Average
4874.000	43.65	-3.86	39.79	74.00	-34.21	120	349	Peak	4874.000	42.48	-3.86	38.62	74.00	-35.38	180	358	Peak
7311.000	31.27	0.86	32.13	54.00	-21.87	124	330	Average	7311.000 7311.000			31.88 42.26	54.00 74.00	-22.12 -31.74	124 124	158 158	Average Peak
7311.000 14651.000	41.26 29.02	0.86 10.84	42.12 39.86	74.00 54.00	-31.88 -14.14	124 150	330 42	Peak Average	14447.000			40.09	54.00	-13.91	150	31	Average
14651.000	41.51	10.84	52.35	74.00	-21.65	150	42	Peak	14447.000			52.44	74.00	-21.56	150	31	Peak
16725.000	30.82	11.87	42.69	54.00	-11.31	150 150	195	Average	16351.000 16351.000			41.48 55.03	54.00 74.00	-12.52 -18.97	150 150	219 219	Average Peak
16725.000 17762.000	40.97 31.74	11.87 13.03	52.84 44.77	74.00 54.00	-21.16 -9.23	150	195 61	Peak Average	17762.000			44.63	54.00	-9.37	150		Average
17762.000	43.10	13.03	56.13	74.00	-17.87	150	61	Peak	17762.000	42.87	13.03	55.90	74.00	-18.10	150	92	Peak
]	gh channel								
			Hori	zonta	ıl							Ver	tical				
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark	Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		MHz	dBu\	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
3261.000		-7.01	32.23	54.00	-21.77	150	28	Average	3448.000			26.95	54.00	-27.05	150		Average
3261.000 4904.000		-7.01 -3.66	34.81 31.70	74.00 54.00	-39.19 -22.30	150 254	28 333	Peak	3448.000 4904.000			33.38 30.63	74.00 54.00	-40.62 -23.37	150 152	239 54	Peak Average
4904.000		-3.66	41.57	74.00	-32.43	254	333	Average Peak	4904.000			38.52	74.00	-35.48	152	54	Peak
7356.000	31.92	0.62	32.54	54.00	-21.46	129	43	Average	7356.000	31.84	0.62	32.46	54.00	-21.54	122	318	Average
		0.62 10.20	40.87 39.56	74.00 54.00	-33.13 -14.44	129 150	43 140	Peak Average	7356.000 14379.000			41.85 39.57	74.00 54.00	-32.15 -14.43	122 150	318 157	Peak Average
7356.000		10.20	51.50	74.00	-14.44	150	140	Peak	14379.000			52.14	74.00	-21.86	150	157	Peak
15008.000 15008.000	41.30																
15008.000 15008.000 16045.000	30.60	9.94	40.54	54.00	-13.46	150	282	Average	16674.000			42.76	54.00	-11.24	150	60	Average
15008.000 15008.000	30.60 43.48		40.54 53.42 44.58	54.00 74.00 54.00	-13.46 -20.58 -9.42	150 150 150	282 282 191	Average Peak Average	16674.006 16674.006 17932.006	42.96	11.96	42.76 54.92 43.26	54.00 74.00 54.00	-11.24 -19.08 -10.74	150 150 150	60 60 102	Average Peak Average

No.: RXZ250210040RF01

Note:

Level = Reading + Factor.

Margin = Level-Limit.

 $Factor = Antenna \; Factor + Cable \; Loss - Amplifier \; Gain.$

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

Page 36 of 76

BLE 1M Mode:

		-]	Low channel								
			Horiz	zontal	l							Vei	rtical				
Freq. Rea	ading	Factor	Level	Limit	Margin	Height	Degree	Remark	Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		- MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
3193.000 4	45.10	-7.35	37.75	54.00	-16.25	150	38	Average	3193.000	36.94	-7.35	29.59	54.00	-24.41	150	124	Average
3193.000 4	46.34	-7.35	38.99	74.00	-35.01	150	38	Peak	3193.000	43.96	-7.35	36.61	74.00	-37.39	150		Peak
	40.08 42.30	-4.40 -4.40	35.68 37.90	54.00 74.00	-18.32 -36.10	135 135	348 348	Average Peak	4804.000 4804.000	41.14 45.81	-4.40 -4.40	36.74 41.41	54.00 74.00	-17.26 -32.59	180 180	335 335	Average Peak
7206.000 3	31.16	0.68	31.84	54.00	-22.16	100	182	Average		31.04	0.68	31.72	54.00	-22.28	208	193	Average
	41.51 31.44	0.68 8.34	42.19 39.78	74.00 54.00	-31.81 -14.22	100 150	182 207	Peak	7206.000	39.42	0.68	40.10	74.00	-33.90	208	193	Peak
	43.85	8.34	52.19	74.00	-14.22	150	207	Average Peak	14787.000 14787.000	28.91 40.41	10.74 10.74	39.65 51.15	54.00 74.00	-14.35 -22.85	150 150	3	Average Peak
16725.000 3	30.48	11.87	42.35	54.00	-11.65	150	97	Average		31.07	11.96	43.03	54.00	-10.97	150	208	Average
	40.95 31.85	11.87 12.94	52.82 44.79	74.00 54.00	-21.18 -9.21	150 150	97 102	Peak Average	16691.000	41.12	11.96	53.08	74.00	-20.92	150	208	Peak
	42.40	12.94	55.34	74.00		150	102	Peak	17813.000 17813.000	32.16 41.91	13.24 13.24	45.40 55.15	54.00 74.00	-8.60 -18.85	150 150		Average Peak
								M	Tiddle channel								
			Horiz	zonta	ı							Vei	rtical				
Freq. Rea		Factor	Level	Limit	Margin			Remark	Freq.	Reading	Factor	Level	Limit	Margin	Height		Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		MHz	dBu\	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
	32.20	-5.02	27.18	54.00		150	251	Average	4451.000	32.15	-4.98	27.17	54.00	-26.83	150	268	Average
	44.59 42.97	-5.02 -3.81	39.57 39.16	74.00 54.00	-34.43 -14.84	150 247	251 336	Peak	4451.000	43.78		38.80	74.00	-35.20		268	Peak
	42.22	-3.81	38.41	74.00		247	336	Average Peak	4880.000 4880.000	31.97		28.16 40.89	54.00 74.00	-25.84 -33.11		47 47	Average Peak
	31.02	0.82	31.84	54.00	-22.16	201	197	Average		31.01		31.83	54.00	-22.17		80	Average
	39.25 31.12	0.82 9.43	40.07 40.55	74.00 54.00		201 150	197 39	Peak Average	7320.000 16062.000	40.39		41.21 40.96	74.00 54.00	-32.79 -13.04		80 115	Peak Average
15943.000 4	43.48	9.43	52.91	74.00	-21.09	150	39	Peak	16062.000	42.41	9.99	52.40	74.00	-21.60	150	115	Peak
	30.76 41.46	11.96 11.96	42.72 53.42	54.00 74.00	-11.28 -20.58	150 150	206 206	Average Peak	16759.000	30.53		42.27	54.00 74.00	-11.73		345 345	Average
	31.50	13.16	44.66	54.00	-20.58 -9.34	150	103	Average	16759.000 17745.000	31.86		53.68 44.80	74.00 54.00	-20.32 -9.20		345 227	Peak Average
	42.58	13.16	55.74	74.00		150	103	Peak	17745.000	42.42		55.36	74.00	-18.64		227	Peak
								ŀ	High channel								
			Horiz	zonta	i							Vei	rtical				
Freq. Rea		Factor	Level	Limit	Margin H			Remark	Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
	dBuV	dB/m	dBuV/m	dBuV/m		(cm)	(°)		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
MHz		-7.27	29.97 36.15	54.00 74.00	-24.03 -37.85	150 150	345 345	Average Peak	3295.000	40.44	-7.27	33.17	54.00	-20.83	150		Average
MHz 3295.000 3	37.24	-7 27	50.15		-37.85 -15.39	112	345 304	Peak Average	3295.000 4960.000	45.02 35.58	-7.27 -3.95	37.75 31.63	74.00 54.00	-36.25 -22.37	150 241	45 316	Peak Average
MHz 3295.000 3 3295.000 4	37.24 43.42 42.56	-7.27 -3.95	38.61	54.00					4960.000	43.32	-3.95	39.37					
MHz 3295.000 3 3295.000 4 4960.000 4 4960.000 4	43.42 42.56 48.55	-3.95 -3.95	44.60	74.00	-29.40	112	304	Peak		45.52		33.31	74.00	-34.63	241	316	Peak
MHz 3295.000 3 3295.000 4 4960.000 4 4960.000 3	43.42 42.56 48.55 30.91	-3.95 -3.95 0.42	44.60 31.33	74.00 54.00	-29.40 -22.67	107	29	Average	7440.000	30.63	0.42	31.05	54.00	-22.95	121	31	Average
MHz 3295.000 3 3295.000 4 4960.000 4 4960.000 4 7440.000 3 7440.000 00	43.42 42.56 48.55	-3.95 -3.95	44.60	74.00	-29.40				7440.000	30.63 41.51	0.42 0.42	31.05 41.93	54.00 74.00	-22.95 -32.07	121 121	31 31	Average Peak
MHz 3295.000 3 3295.000 4 4960.000 4 4960.000 4 7440.000 3 7440.000 3 15722.000 3	43.42 42.56 48.55 30.91 40.65 31.29 43.34	-3.95 -3.95 0.42 0.42 8.44 8.44	44.60 31.33 41.07 39.73 51.78	74.00 54.00 74.00 54.00 74.00	-29.40 -22.67 -32.93 -14.27 -22.22	107 107 150 150	29 29 159 159	Average Peak Average Peak	7440.000 15688.000 15688.000	30.63 41.51 31.59 44.19	0.42 0.42 8.31 8.31	31.05 41.93 39.90 52.50	54.00 74.00 54.00 74.00	-22.95 -32.07 -14.10 -21.50	121 121 150 150	31 31 158 158	Average Peak Average Peak
MHz 3295.000 3 3295.000 4 4960.000 4 4960.000 4 7440.000 3 7440.000 3 15722.000 3 15722.000 4	43.42 42.56 48.55 30.91 40.65 31.29 43.34 30.52	-3.95 -3.95 0.42 0.42 8.44 8.44 11.92	44.60 31.33 41.07 39.73 51.78 42.44	74.00 54.00 74.00 54.00 74.00 54.00	-29.40 -22.67 -32.93 -14.27 -22.22 -11.56	107 107 150 150 150	29 29 159 159 72	Average Peak Average	7440.000 15688.000 15688.000 16623.000	30.63 41.51 31.59 44.19 30.87	0.42 0.42 8.31 8.31 11.94	31.05 41.93 39.90 52.50 42.81	54.00 74.00 54.00 74.00 54.00	-22.95 -32.07 -14.10 -21.50 -11.19	121 121 150 150 150	31 31 158 158 269	Average Peak Average Peak Average
3295.000 3 3295.000 4 4960.000 4 4960.000 4 7440.000 3 15722.000 3 15722.000 3 16589.000 4 17779.000 3	43.42 42.56 48.55 30.91 40.65 31.29 43.34 30.52 41.65 31.52	-3.95 -3.95 0.42 0.42 8.44 8.44	44.60 31.33 41.07 39.73 51.78	74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00	-29.40 -22.67 -32.93 -14.27 -22.22	107 107 150 150	29 29 159 159	Average Peak Average Peak Average	7440.000 15688.000 15688.000	30.63 41.51 31.59 44.19	0.42 0.42 8.31 8.31	31.05 41.93 39.90 52.50	54.00 74.00 54.00 74.00	-22.95 -32.07 -14.10 -21.50	121 121 150 150	31 31 158 158	Average Peak Average Peak

No.: RXZ250210040RF01

Note:

Level = Reading + Factor.

Margin = Level-Limit.

 $Factor = Antenna \; Factor + Cable \; Loss - Amplifier \; Gain.$

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

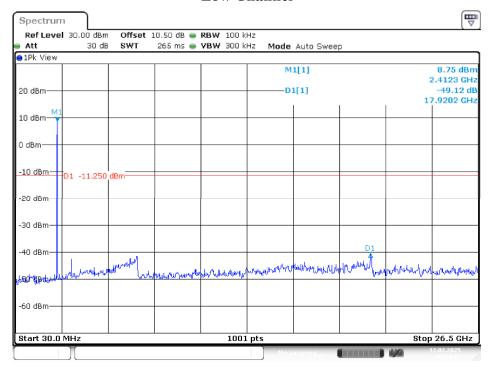
Page 37 of 76

Conducted Spurious Emissions:

Channel	Frequency (MHz)	Delta Peak to Band Emission (dBc)	Limit (dBc)	Result
		B Mode		
Low	2412	49.12	≥ 20	PASS
Mid	2437	48.27	≥ 20	PASS
High	2462	47.27	≥ 20	PASS
		G Mode		
Low	2412	42.06	≥ 20	PASS
Mid	2437	41.03	≥ 20	PASS
High	2462	43.20	≥ 20	PASS
		N20 Mode		
Low	2412	40.59	≥ 20	PASS
Mid	2437	41.97	≥ 20	PASS
High	2462	41.73	≥ 20	PASS
		N40 Mode		•
Low	2422	39.53	≥ 20	PASS
Mid	2437	39.27	≥ 20	PASS
High	2452	39.34	≥ 20	PASS
		BLE(1M) Mode		
Low	2402	43.26	≥ 20	PASS
Mid	2440	39.78	≥ 20	PASS
High	2480	39.05	≥ 20	PASS

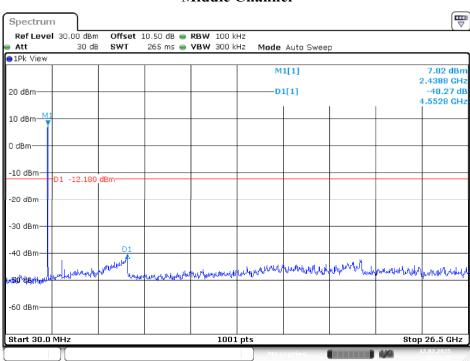
No.: RXZ250210040RF01

B Mode Low Channel



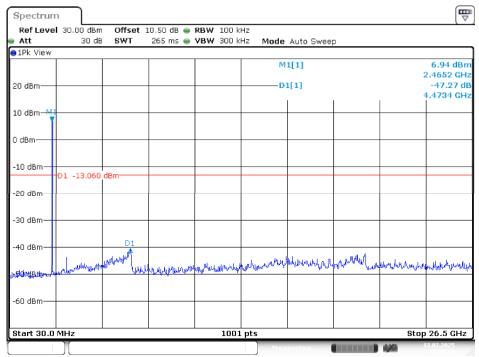
Date: 12.FEB.2025 10:54:08

Middle Channel



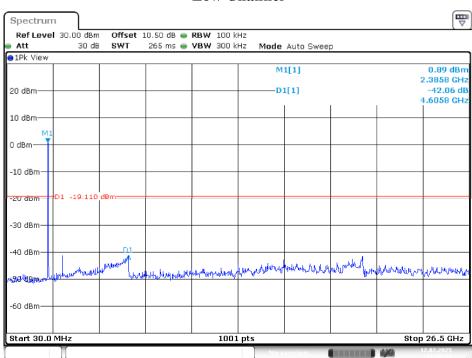
Date: 12.FEB.2025 10:58:48

No.: RXZ250210040RF01



Date: 12.FEB.2025 11:01:20

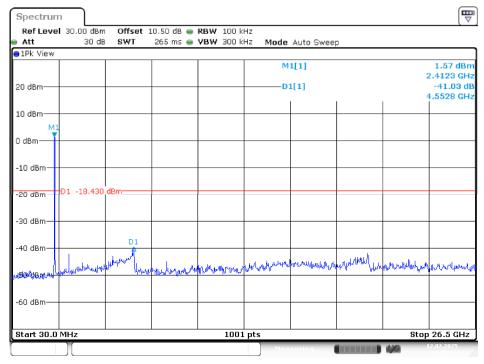
G Mode Low Channel



Date: 12.FEB.2025 11:20:56

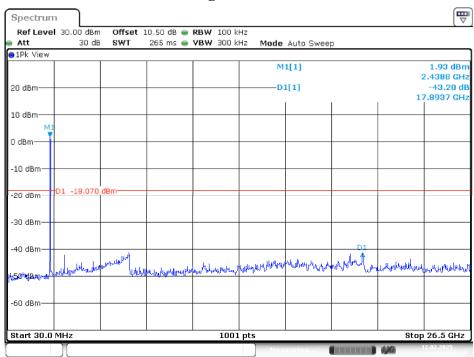
Middle Channel

No.: RXZ250210040RF01



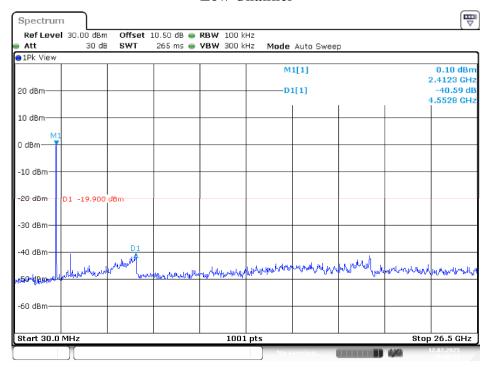
Date: 12.FEB.2025 11:23:59

High Channel



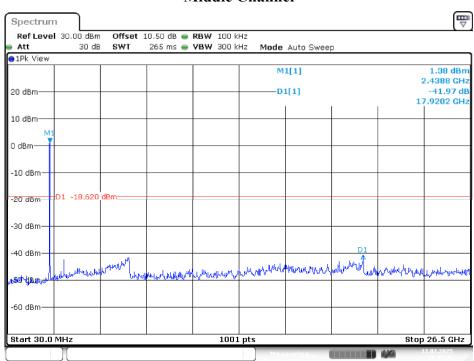
Date: 12.FEB.2025 11:26:57

N20 Mode Low Channel



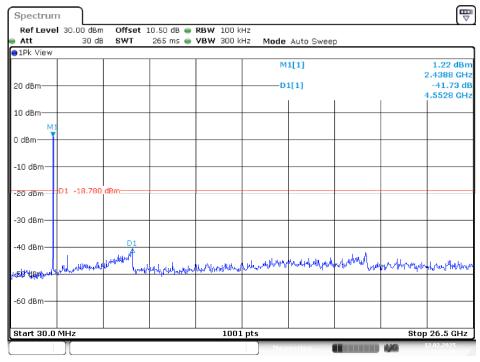
Date: 12.FEB.2025 11:40:58

Middle Channel



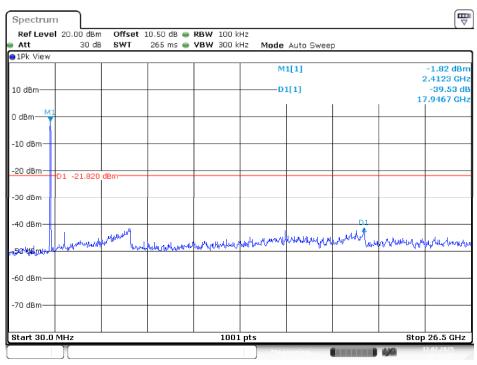
Date: 12.FEB.2025 11:47:25

No.: RXZ250210040RF01



Date: 12.FEB.2025 11:51:38

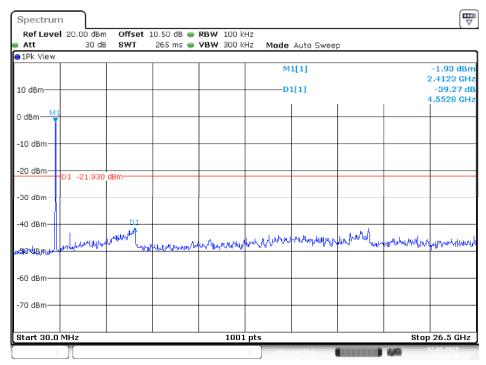
N40 Mode Low Channel



Date: 12.FEB.2025 13:12:37

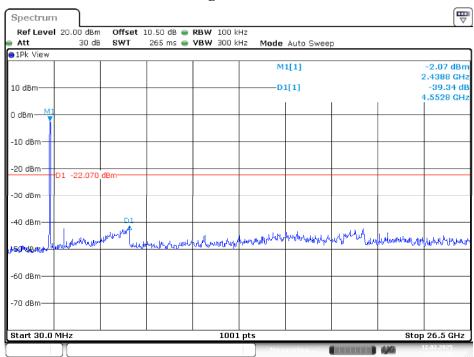
Middle Channel

No.: RXZ250210040RF01



Date: 12.FEB.2025 13:14:40

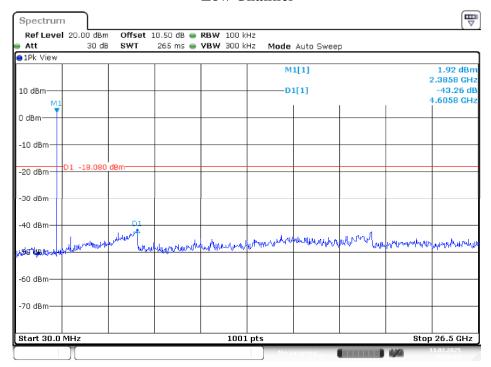
High Channel



Date: 12.FEB.2025 13:17:51

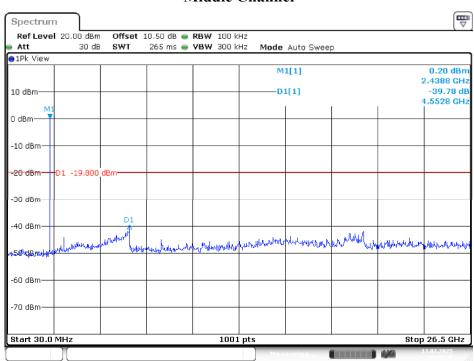
BLE(1M) Mode Low Channel

No.: RXZ250210040RF01



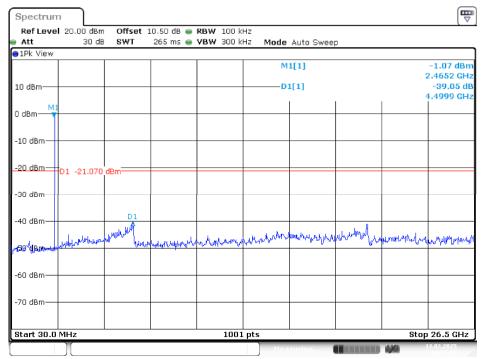
Date: 13.FEB.2025 10:26:29

Middle Channel



Date: 13.FEB.2025 10:29:20

No.: RXZ250210040RF01



Date: 13.FEB.2025 10:31:17

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

7.1 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.

No.: RXZ250210040RF01

7.2 Test Procedure

According to ANSI C63.10-2013, section 11.8

The steps for the first option are as follows:

- a) Set RBW = 100 kHz.
- b) Set the VBW \geq [3 × RBW].
- c) Detector = peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

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Page 47 of 76

7.3 Test Results

7.5 Test Results	3							
Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (kHz)	Result				
B Mode								
Low	2412	9.56	> 500	PASS				
Middle	2437	10.04	> 500	PASS				
High	2462	9.56	> 500	PASS				
	G Mode							
Low	2412	16.40	> 500	PASS				
Middle	2437	16.40	> 500	PASS				
High	2462	16.40	> 500	PASS				
	N20 Mode							
Low	2412	17.08	> 500	PASS				
Middle	2437	17.08	> 500	PASS				
High	2462	16.96	> 500	PASS				
		N40 Mode						
Low	2422	32.80	> 500	PASS				
Middle	2437	32.96	> 500	PASS				
High	2452	32.96	> 500	PASS				
	BLE(1M) Mode							
Low	2402	0.65	> 500	PASS				
Middle	2440	0.65	> 500	PASS				
High	2480	0.64	> 500	PASS				

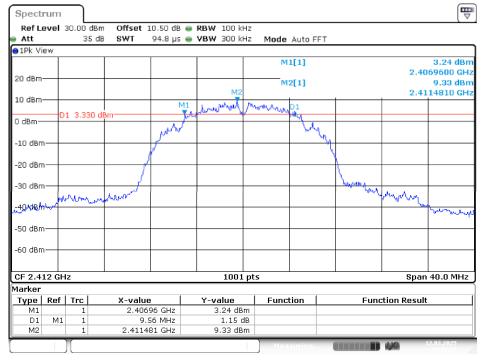
No.: RXZ250210040RF01

Day Thew comprised Decorations corp. (Them Tamper Decoration

Please refer to the following plots

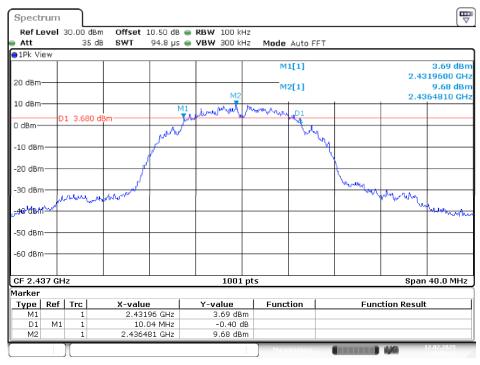
B Mode Low Channel

No.: RXZ250210040RF01



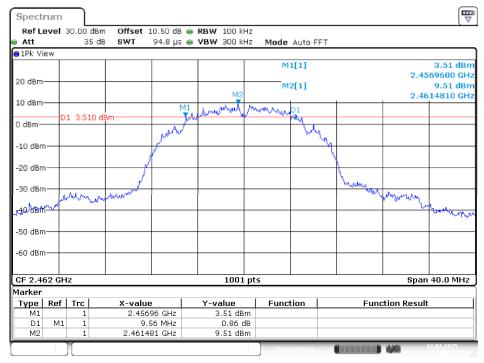
Date: 12.FEB.2025 10:53:28

Middle Channel



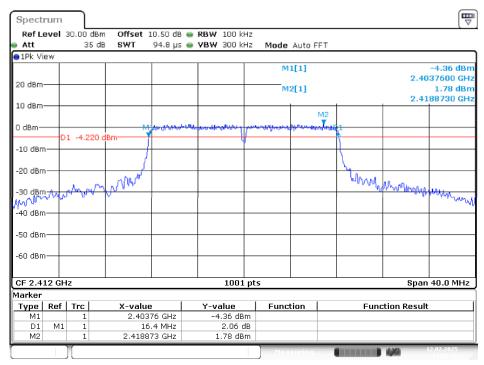
Date: 12.FEB.2025 10:58:23

No.: RXZ250210040RF01



Date: 12.FEB.2025 11:00:39

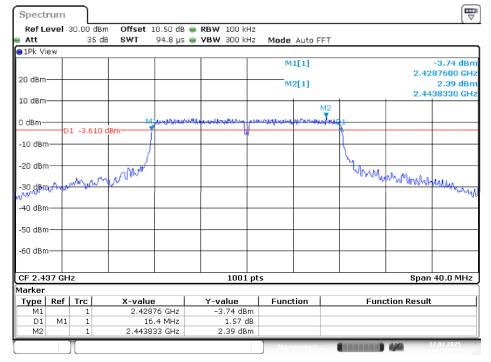
G Mode Low Channel



Date: 12.FEB.2025 11:20:16

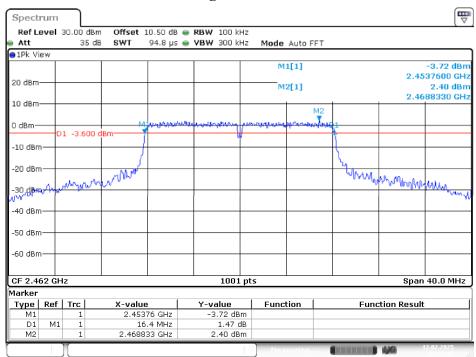
Middle Channel

No.: RXZ250210040RF01



Date: 12.FEB.2025 11:23:35

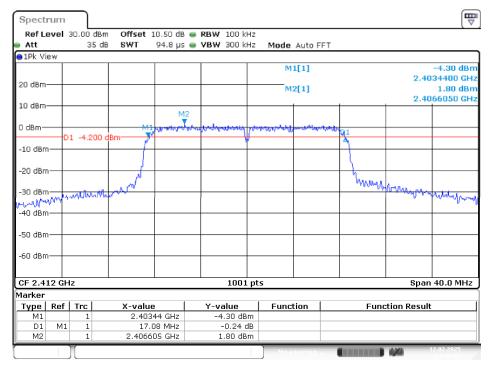
High Channel



Date: 12.FEB.2025 11:26:17

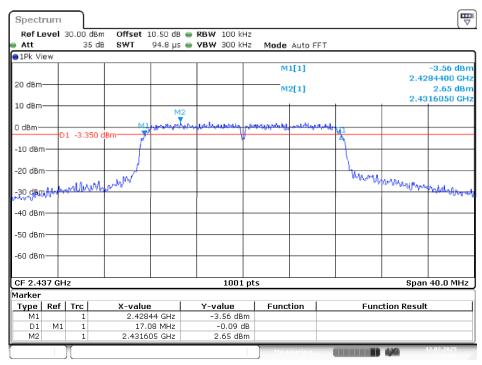
N20 Mode Low Channel

No.: RXZ250210040RF01



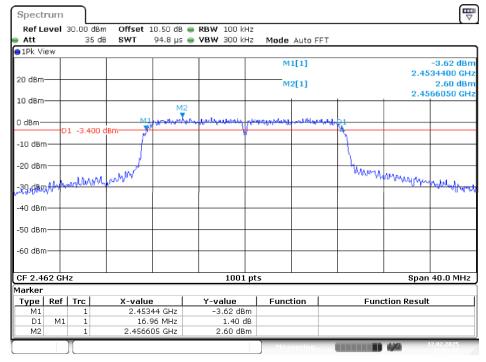
Date: 12.FEB.2025 11:40:18

Middle Channel



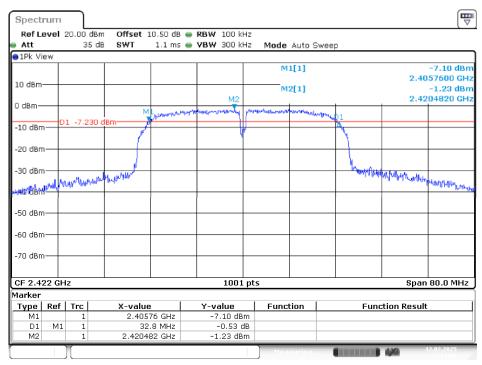
Date: 12.FEB.2025 11:47:01

No.: RXZ250210040RF01



Date: 12.FEB.2025 11:50:58

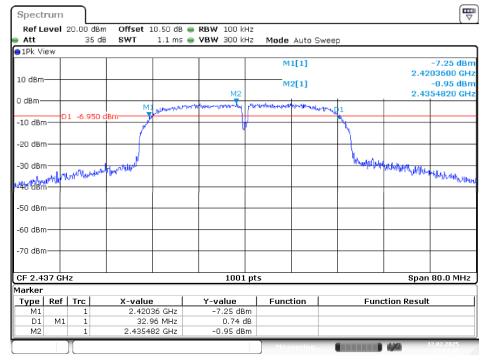
N40 Mode Low Channel



Date: 12.FEB.2025 13:11:57

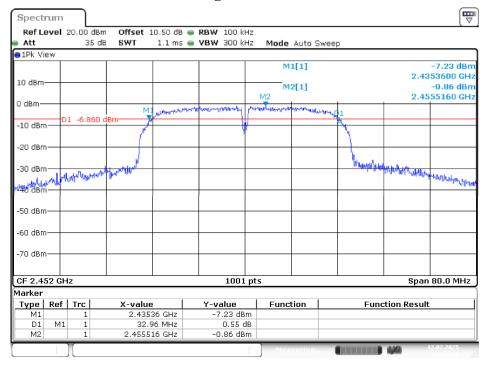
Middle Channel

No.: RXZ250210040RF01



Date: 12.FEB.2025 13:14:16

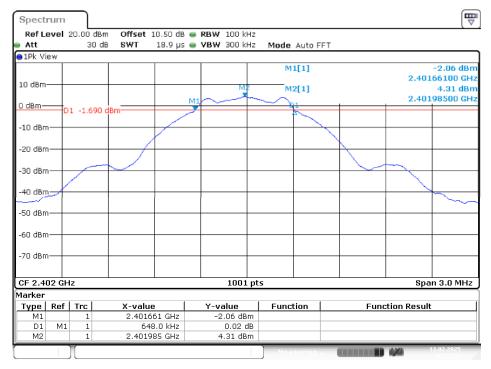
High Channel



Date: 12.FEB.2025 13:17:10

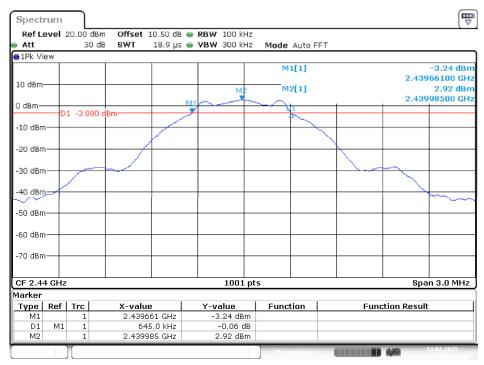
BLE(1M) Mode Low Channel

No.: RXZ250210040RF01



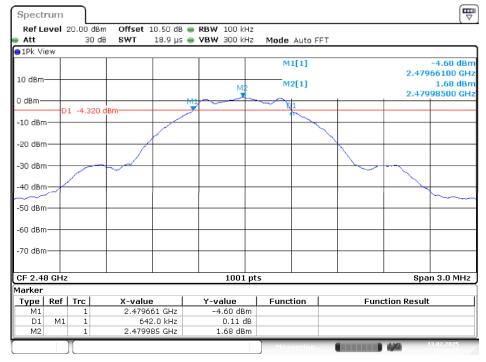
Date: 13.FEB.2025 10:25:34

Middle Channel



Date: 13.FEB.2025 10:28:41

No.: RXZ250210040RF01



Date: 13.FEB.2025 10:30:22

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

8.1 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.

No.: RXZ250210040RF01

8.2 Test Procedure

According to ANSI C63.10-2013, section 11.9.1.3

According to ANSI C63.10-2013, section 11.9.2.3.1

- 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 measuring equipment.

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Page 57 of 76

8.3 Test Results

Conducted Peak Output Power

Channel	Frequency (MHz)	Conducted Peak Output Power (dBm)	Limit (dBm)	Result
		802.11b Mode		
Low	2412	17.14	30	PASS
Middle	2437	15.93	30	PASS
High	2462	15.47	30	PASS
		802.11g Mode		
Low	2412	20.99	30	PASS
Middle	2437	19.34	30	PASS
High	2462	18.32	30	PASS
		802.11n HT20 Mode		
Low	2412	20.90	30	PASS
Middle	2437	19.14	30	PASS
High	2462	18.14	30	PASS
		802.11n HT40 Mode		
Low	2422	19.90	30	PASS
Middle	2437	19.04	30	PASS
High	2452	18.09	30	PASS
		BLE(1M) Mode		
Low	2402	5.57	30	PASS
Middle	2440	4.26	30	PASS
High	2480	3.25	30	PASS

No.: RXZ250210040RF01

Conducted Average Output Power

	Tverage Outpo	1	T (13.5 ·					
Channel	Frequency (MHz)	Conducted Average Output Power (dBm)	Total Maximum Conducted Average Output Power With Duty Factor (dBm)	Limit (dBm)	Result			
	802.11b Mode							
Low	2412	13.52	13.52	30	PASS			
Middle	2437	12.42	12.42	30	PASS			
High	2462	12.06	12.06	30	PASS			
	802.11g Mode							
Low	2412	11.41	11.41	30	PASS			
Middle	2437	10.45	10.45	30	PASS			
High	2462	9.46	9.46	30	PASS			
	802.11n HT20 Mode							
Low	2412	11.39	11.39	30	PASS			
Middle	2437	10.36	10.36	30	PASS			
High	2462	9.35	9.35	30	PASS			
		802.11n H	T40 Mode					
Low	2422	10.12	10.12	30	PASS			
Middle	2437	9.43	9.43	30	PASS			
High	2452	8.47	8.47	30	PASS			
	BLE(1M) Mode							
Low	2402	3.62	4.43	30	PASS			
Middle	2440	2.07	2.88	30	PASS			
High	2480	0.84	1.65	30	PASS			

No.: RXZ250210040RF01

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

No.: RXZ250210040RF01

9.1 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)).

9.2 Test Procedure

According to ANSI C63.10-2013 Section 11.11

- 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.

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Page 60 of 76

9.3 Test Results

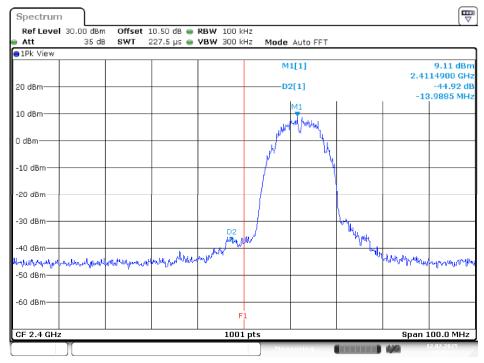
Channel	Frequency (MHz)	Delta Peak to Band Emission (dBc)	Limit (dBc)	Result				
		B Mode						
Low	2412	44.92	≥ 20	PASS				
High	2462	49.49	≥ 20	PASS				
	G Mode							
Low	2412	28.68	≥ 20	PASS				
High	2462	38.50	≥ 20	PASS				
	N20 Mode							
Low	2412	31.77	≥ 20	PASS				
High	2462	37.29	≥ 20	PASS				
	N40 Mode							
Low	2422	30.92	≥ 20	PASS				
High	2452	31.65	≥ 20	PASS				
	BLE(1M) Mode							
Low	2402	51.26	≥ 20	PASS				
High	2480	50.85	≥ 20	PASS				

No.: RXZ250210040RF01

Please refer to the following plots.

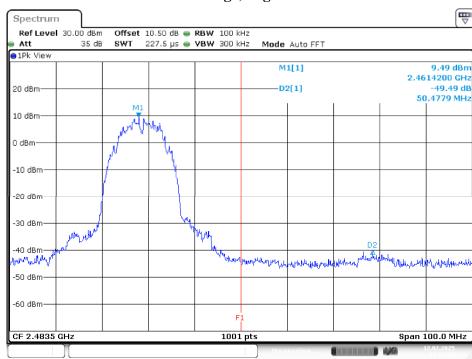
B Mode Band Edge, Left Side

No.: RXZ250210040RF01



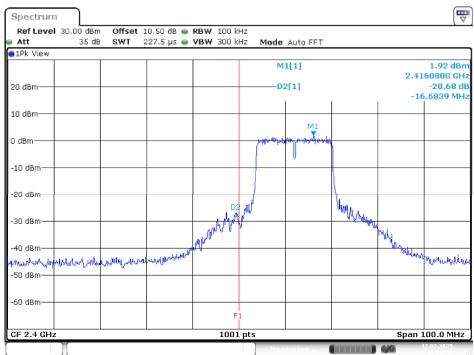
Date: 12.FEB.2025 10:53:52

Band Edge, Right Side



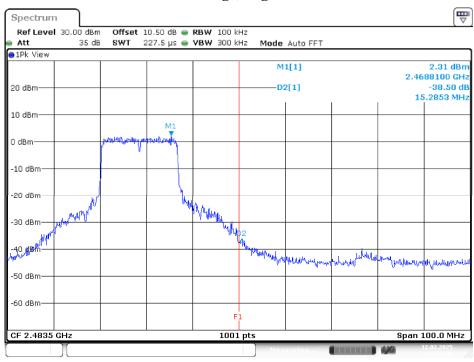
Date: 12.FEB.2025 11:01:04

G Mode Band Edge, Left Side



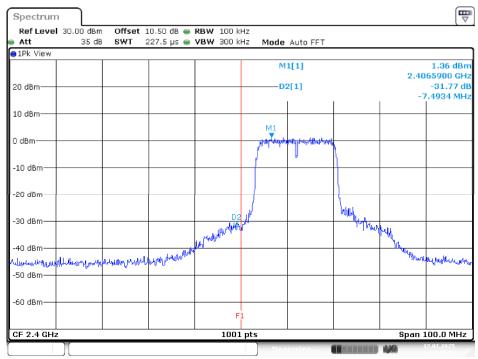
Date: 12.FEB.2025 11:20:41

Band Edge, Right Side



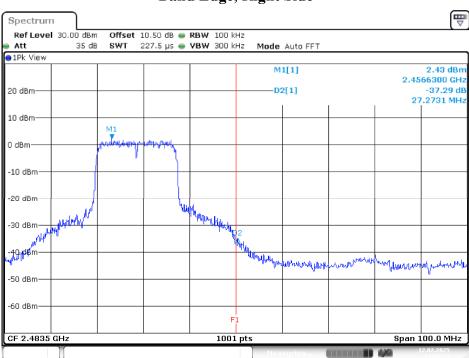
Date: 12.FEB.2025 11:26:42

N20 Mode Band Edge, Left Side



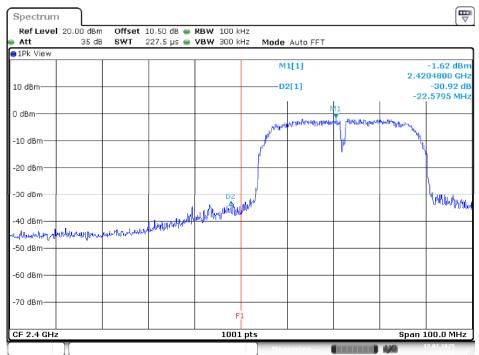
Date: 12.FEB.2025 11:40:43

Band Edge, Right Side



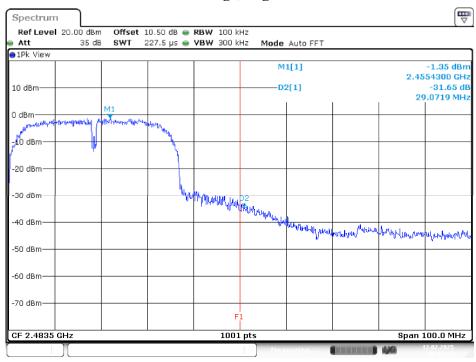
Date: 12.FEB.2025 11:51:22

N40 Mode Band Edge, Left Side



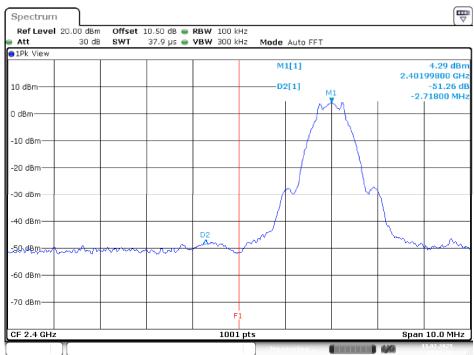
Date: 12.FEB.2025 13:12:22

Band Edge, Right Side



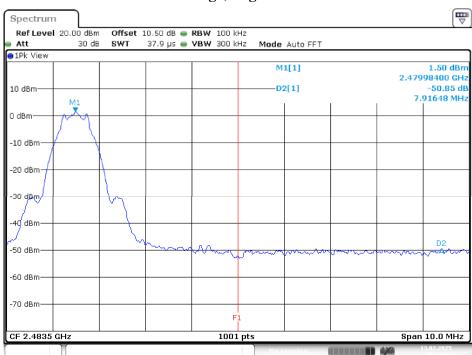
Date: 12.FEB.2025 13:17:35

BLE(1M) Mode
Band Edge, Low Channel



Date: 13.FEB.2025 10:26:14

Band Edge, High Channel



Date: 13.FEB.2025 10:31:01

10 FCC §15.247(e) – Power Spectral Density

10.1 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.

No.: RXZ250210040RF01

10.2 Test Procedure

According to ANSI C63.10-2013, section 11.10.2

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set the RBW to $3 \text{ kHz} \le \text{RBW} \le 100 \text{ kHz}$.
- d) Set the VBW \geq [3 × RBW].
- e) Detector = peak.
- f) Sweep time = auto couple.
- 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

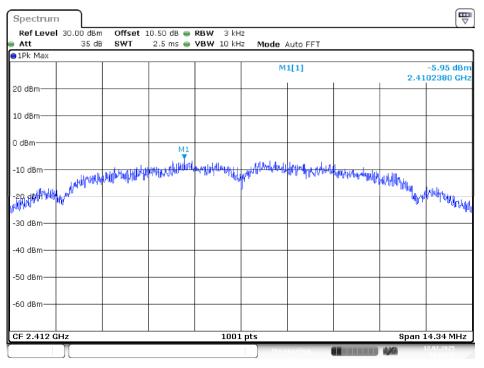
10.3 Test Results

Channel	Frequency (MHz)	Power Spectral Density	Limit (dBm/3 kHz)	Result
	(1/1112)	(dBm/3 kHz)	(4.2.11.6 11.12)	
		B Mode		
Low	2412	-5.95	8	PASS
Middle	2437	-5.50	8	PASS
High	2462	-5.66	8	PASS
		G Mode		
Low	2412	-13.04	8	PASS
Middle	2437	-12.55	8	PASS
High	2462	-11.65	8	PASS
		N20 Mode		•
Low	2412	-12.27	8	PASS
Middle	2437	-11.40	8	PASS
High	2462	-11.48	8	PASS
		N40 Mode		•
Low	2422	-13.45	8	PASS
Middle	2437	-12.59	8	PASS
High	2452	-12.01	8	PASS
		BLE(1M) Mode		•
Low	2402	-7.91	8	PASS
Middle	2440	-8.52	8	PASS
High	2480	-9.86	8	PASS

No.: RXZ250210040RF01

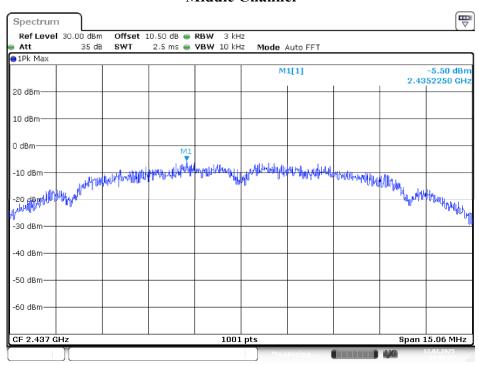
Please refer to the following plots

B Mode Low Channel



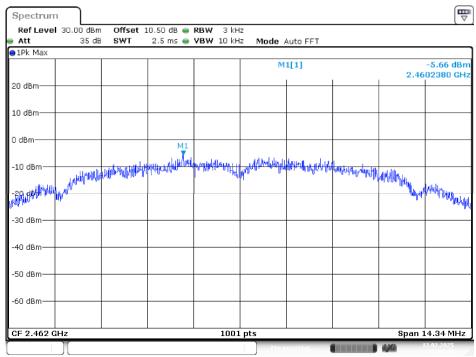
Date: 12.FEB.2025 10:53:37

Middle Channel



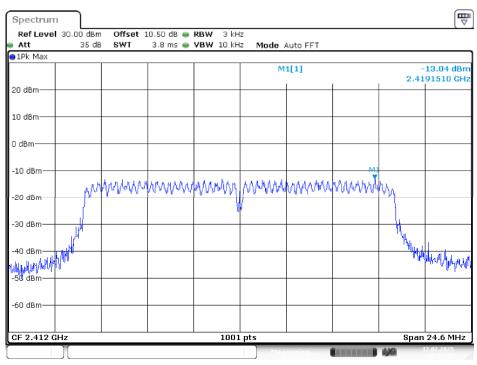
Date: 12.FEB.2025 10:58:32

No.: RXZ250210040RF01



Date: 12.FEB.2025 11:00:48

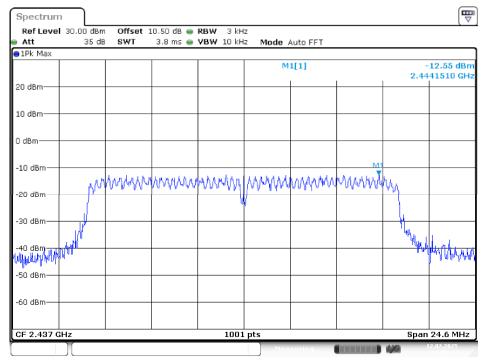
G Mode Low Channel



Date: 12.FEB.2025 11:20:25

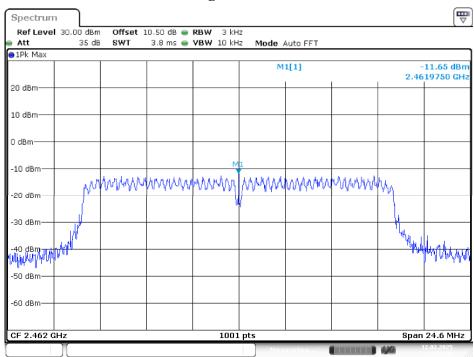
Middle Channel

No.: RXZ250210040RF01



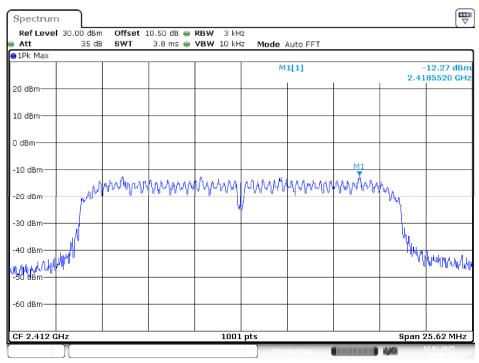
Date: 12.FEB.2025 11:23:43

High Channel



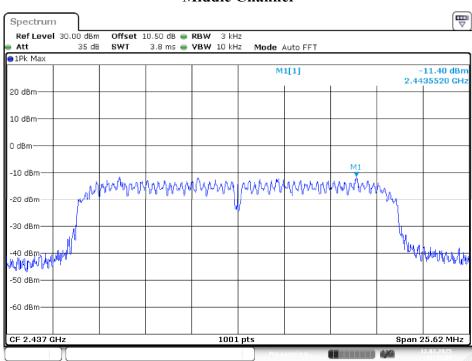
Date: 12.FEB.2025 11:26:26

N20 Mode Low Channel



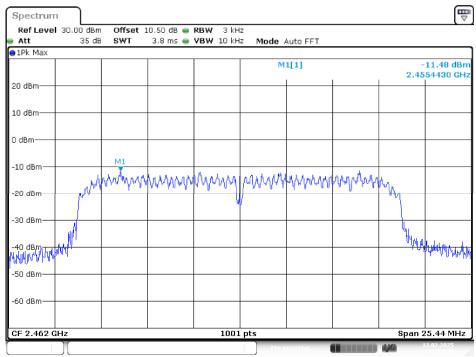
Date: 12.FEB.2025 11:40:27

Middle Channel



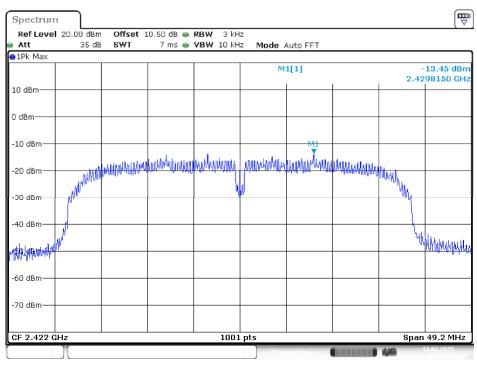
Date: 12.FEB.2025 11:47:10

No.: RXZ250210040RF01



Date: 12.FEB.2025 11:51:07

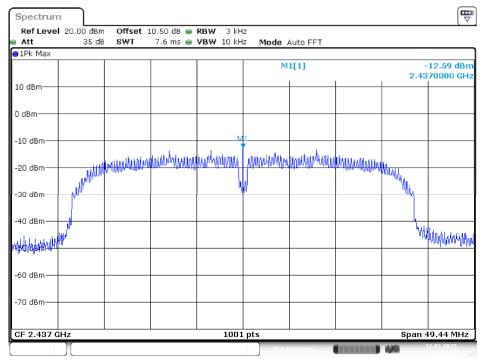
N40 Mode Low Channel



Date: 12.FEB.2025 13:12:06

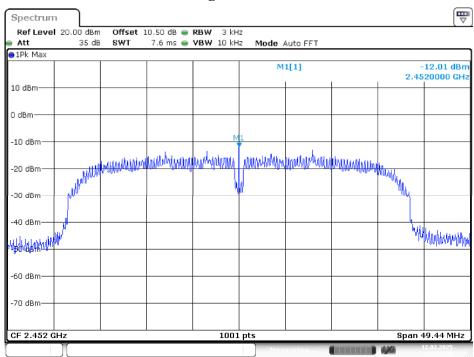
Middle Channel

No.: RXZ250210040RF01



Date: 12.FEB.2025 13:14:25

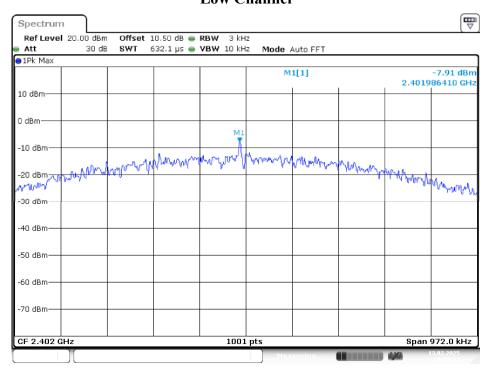
High Channel



Date: 12.FEB.2025 13:17:19

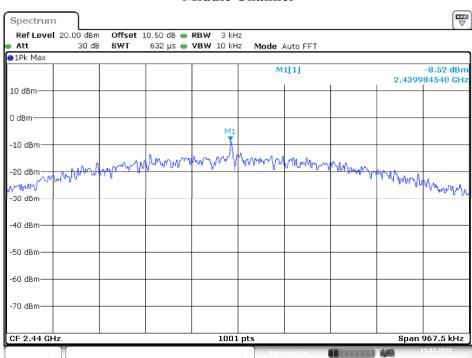
BLE(1M) Mode Low Channel

No.: RXZ250210040RF01



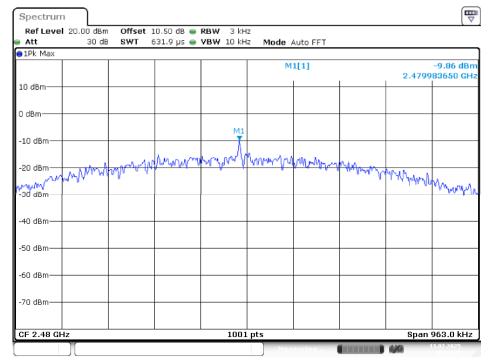
Date: 13.FEB.2025 10:25:43

Middle Channel



Date: 13.FEB.2025 10:28:50

No.: RXZ250210040RF01



Date: 13.FEB.2025 10:30:31

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