

FCC Part 15.247
RSS-247, ISSUE 3, August 2023
RSS-GEN, ISSUE 5, February 2021 Amendment 2
TEST REPORT

For

WOM ASIA CO., LTD

13F., No.192, Sec. 2, Zhongxing Rd., Xindian Dist., New Taipei 231, Taiwan(R.O.C.)

FCC ID: 2AXAMAWB51445143
IC: 34378-AWB5144

Report Type: Original Report	Product Type: Industrial MESH Wireless AP Router
Report Producer : <u>Coco Lin</u>	
Report Number : <u>RXZ250407017RF01</u>	
Report Date : <u>2025-12-10</u>	
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Revision History

Revision	No.	Report Number	Issue Date	Description	Author/ Revised by
0.0	RXZ250407017	RXZ250407017RF01	2025-12-10	Original Report	Coco Lin

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1 General Information

1.1 Product Description for Equipment under Test (EUT)

Applicant	WOM ASIA CO., LTD
	13F., No.192, Sec. 2, Zhongxing Rd., Xindian Dist., New Taipei 231, Taiwan(R.O.C.)
Brand(Trade) Name	WoMaster
Product (Equipment)	Industrial MESH Wireless AP Router
PMN	WA512G-AX
HVIN	WA512G-AX-IP67, WA512G-AX-D
Main Model Name	WA512G-AX-D
Series Model Name	WA512G-AX-IP67
Model Discrepancy	Please refer to the difference declaration letter provided by the Applicant.
Frequency Range	IEEE 802.11b/ g/ n HT20/ ax HE20 Mode: 2412 ~ 2462 MHz IEEE 802.11n HT40/ ax HE40 Mode: 2422 ~ 2452 MHz
Maximum Conducted Peak Output Power	No Beamforming IEEE 802.11b Mode: 18.20 dBm IEEE 802.11g Mode: 21.02 dBm IEEE 802.11n HT20 Mode: 21.12 dBm IEEE 802.11n HT40 Mode: 21.64 dBm IEEE 802.11ax HE20 Mode: 21.75 dBm IEEE 802.11ax HE40 Mode: 22.12 dBm Beamforming IEEE 802.11n HT20 Mode: 20.97 dBm IEEE 802.11n HT40 Mode: 21.41 dBm IEEE 802.11ax HE20 Mode: 21.86 dBm IEEE 802.11ax HE40 Mode: 22.28 dBm
Modulation Technique	DSSS / OFDM / OFDMA
Power Operation (Voltage Range)	24Vdc from DC Power Supply, 48Vdc from POE Adapter
Received Date	2025/04/23

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

RXZ250407017-1, RXZ250407017-2 (Assigned by BACL, New Taipei Laboratory).

1.2 Objective

This report is prepared on behalf of *WOM ASIA CO., LTD* in accordance with Part 2, Subpart J, Part 15, Subparts A and C of the Federal Communication Commission's rules and RSS-247, Issue 3, August 2023, RSS-Gen, Issue 5, February 2021 Amendment 2 of the Innovation, Science and Economic Development Canada.

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2020 + Cor.1-2023, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices and KDB 558074 D01 15.247 Meas Guidance v05r02. And RSS-247, Issue 3, August 2023, RSS-Gen, Issue 5, February 2021 Amendment 2 of the Innovation, Science and Economic Development Canada.

1.4 Statement

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

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

1.5 Measurement Uncertainty

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

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

1.6 Environmental Conditions

Test Site	Test Date	Temperature (°C)	Relative Humidity (%)	Test Engineer
AC Line Conducted Emissions	2025/6/25	22.4	47	Jing
Radiation Spurious Emissions	2025/5/19~2025/12/9	21.5~25.7	52~68	Nick
Duty Cycle	2025/5/2	26.9	46	Sean
Conducted Spurious Emissions	2025/4/29~2025/4/30	26.6~26.7	43~44	Sean
Emission Bandwidth	2025/4/29~2025/4/30	26.6~26.7	43~44	Sean
Maximum Output Power	2025/4/29~2025/4/30	26.6~26.7	43~44	Sean
100 kHz Bandwidth of Frequency Band Edge	2025/4/29~2025/4/30	26.6~26.7	43~44	Sean
Power Spectral Density	2025/4/29~2025/4/30	26.6~26.7	43~44	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.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: TW3732.

2 System Test Configuration

2.1 Description of Test Configuration

For WIFI 2.4GHz 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	/	/

For 802.11 b/g/n HT20/ax HE20 Modes were tested with channel 1, 6 and 11.

For 802.11n HT40/ax HE40 Mode were tested with channel 3, 6 and 9.

2.2 Equipment Modifications

No modification was made to the EUT.

2.3 EUT Exercise Software

The test software was used “QSPR v5.0”

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

Engineering Mode		Power Level Setting MIMO(CDD)					
Test Frequency		Low		Middle		High	
		Chain 0	Chain 1	Chain 0	Chain 1	Chain 0	Chain 1
Mode MIMO(CDD)	Non Beamforming						
	802.11b Mode	8	8	8	8	8	8
	802.11g Mode	12	12	12	12	12	12
	802.11n HT20 Mode	12	12	12	12	12	12
	802.11n HT40 Mode	12	12	12	12	12	12
	802.11ax HE20 Mode	12	12	12	12	12	12
	802.11ax HE40 Mode	12	12	12	12	12	12
	Beamforming						
	802.11n HT20 Mode	12	12	12	12	12	12
	802.11n HT40 Mode	12	12	12	12	12	12
	802.11ax HE20 Mode	12	12	12	12	12	12
	802.11ax HE40 Mode	12	12	12	12	12	12

The device support SISO and MIMO.

SISO mode and MIMO mode have the same power level setting and base on output power testing,

MIMO mode power large than SISO mode, MIMO mode was selected for full testing.

For n/ax mode, the MIMO mode support beamforming.

The worst case data rates are as follows:

802.11b: 1Mbps

802.11g: 6Mbps

802.11n HT20: MCS0

802.11n HT40: MCS0

802.11ax HE20: MCS0

802.11ax HE40: MCS0

2.4 Support Equipment List and Details

Description	Manufacturer	Model Number
NB	DELL	E6410
POE Injector	Cisco	AIR-PWRINJ6
DC Power Supply	KIKUSUI	PMC35-2

2.5 External Cable List and Details

Description	Manufacturer	Model Number
RJ45 Cable	BACL	1m
RJ45 Cable	BACL	3m
Power Cord	BACL	1.5m

2.6 Test Mode

The device 802.11ax mode only supports full RU, not partial RU, test with full RU.

Pre-scan

AC Line Conducted Emissions and Radiated Spurious Emissions

Mode	Test mode	Samper No.
1	(WA512G-AX-D, Power: DC in-1)	RXZ250407017-1
2	(WA512G-AX-D, Power: DC in-2)	RXZ250407017-1
3	(WA512G-AX-D, Power: POE)	RXZ250407017-1
4	(WA512G-AX-IP67, Power: POE)	RXZ250407017-2

Worst case is the Mode 3

Mode 3 tested all measure item.

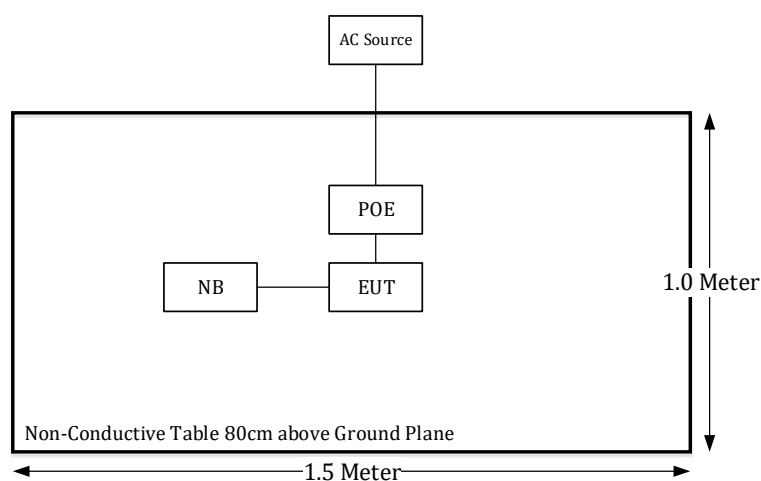
Mode 4 test Below 1GHz Radiated Spurious Emissions

2.7 Block Diagram of Test Setup

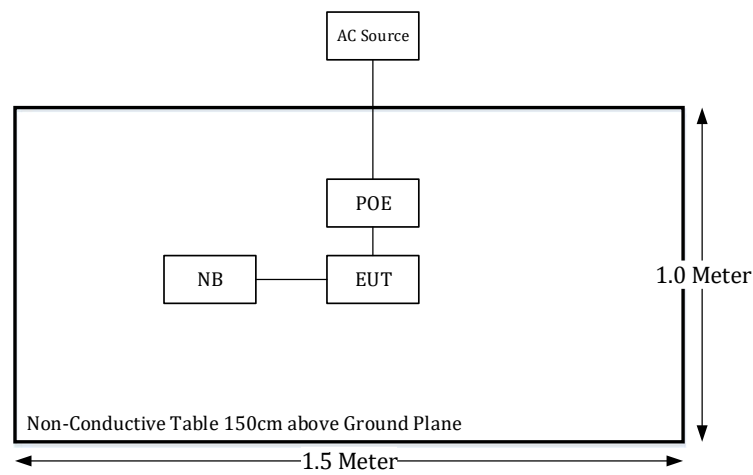
See test photographs attached in setup photos for the actual connections between EUT and support equipment.

Radiation:

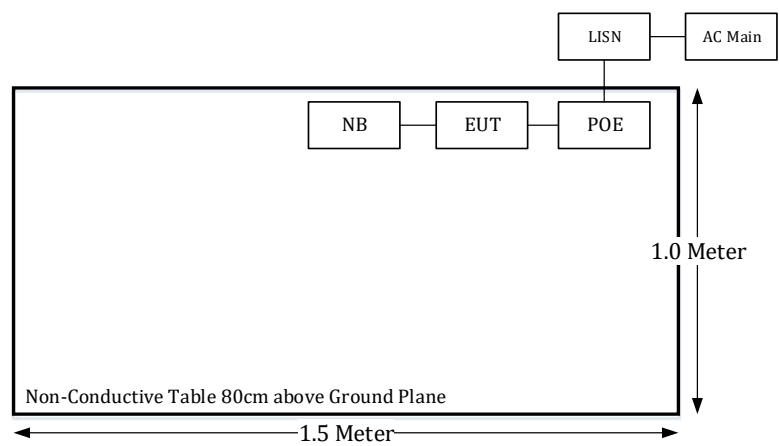
Below 1GHz

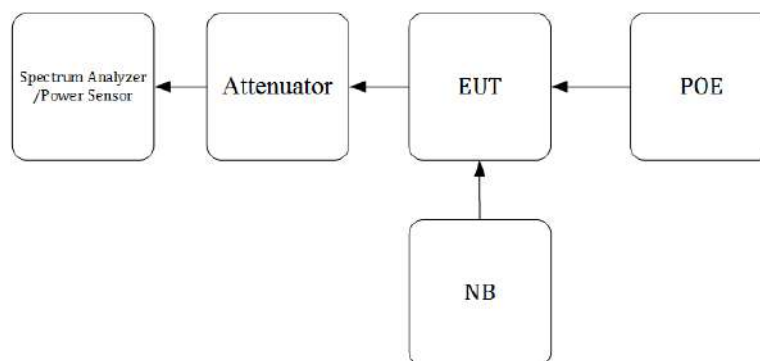


Above 1GHz:



Conduction:



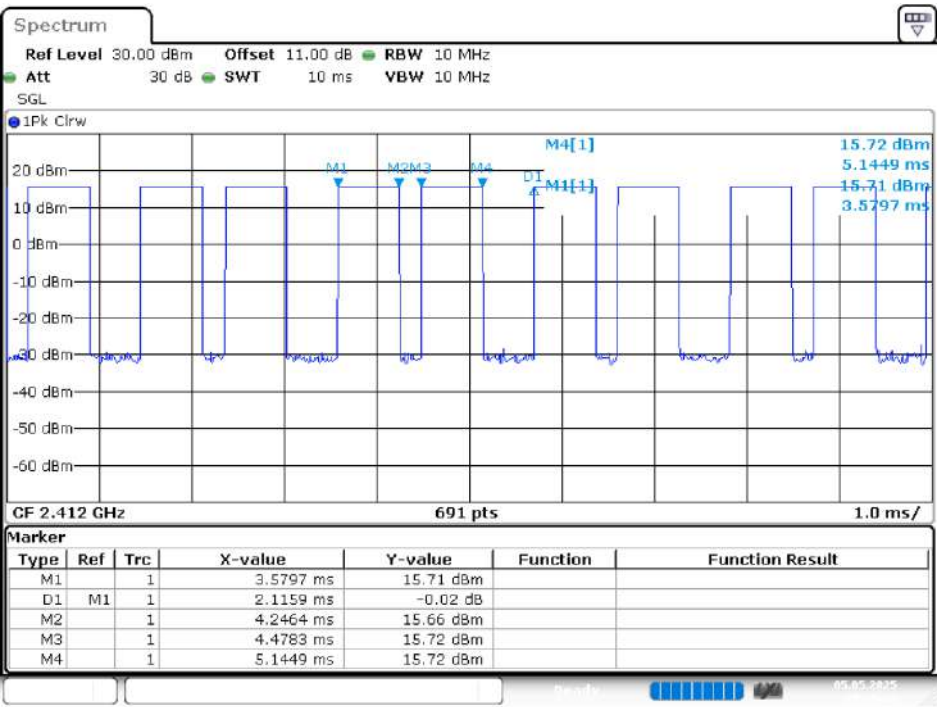
Conducted:**2.8 Duty Cycle**

The duty cycle as below:

Radio Mode	On Time (ms)	Off Time (ms)	Duty Cycle (%)	1/T (kHz)	VBW Setting (kHz)
802.11b	1.333	0.782	63	0.75	1
802.11g	1.978	0.167	92	0.51	1
802.11n 20	5.449	0.246	96	0.18	0.2
802.11n 40	5.405	0.53	91	0.19	0.2
802.11ax 20	5.471	0.246	96	0.18	0.2
802.11ax 40	5.405	0.86	86	0.19	0.2

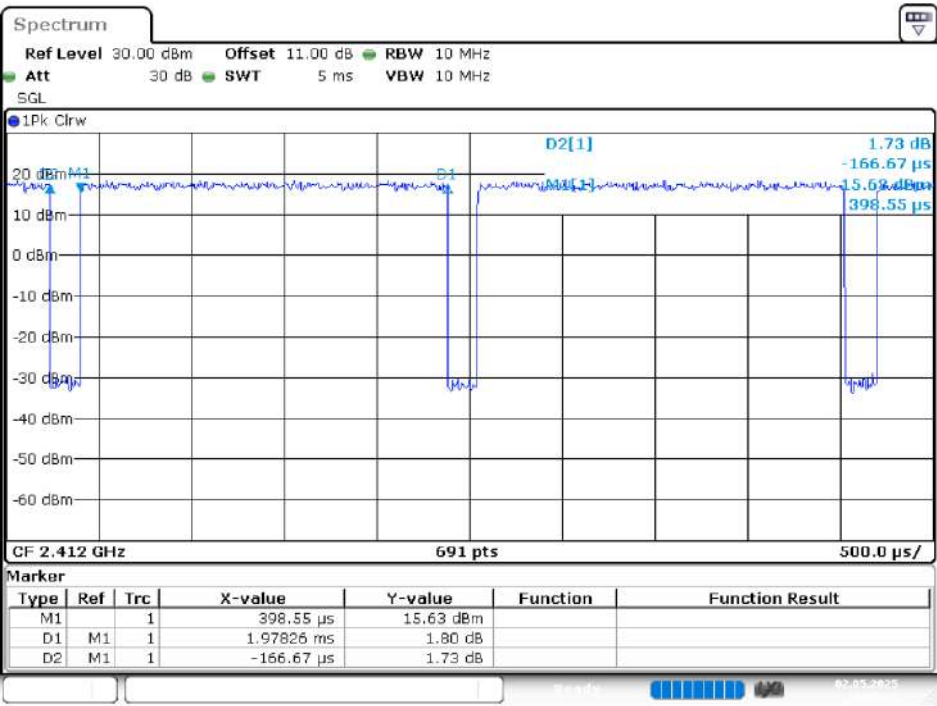
Please refer to the following plots.

B Mode



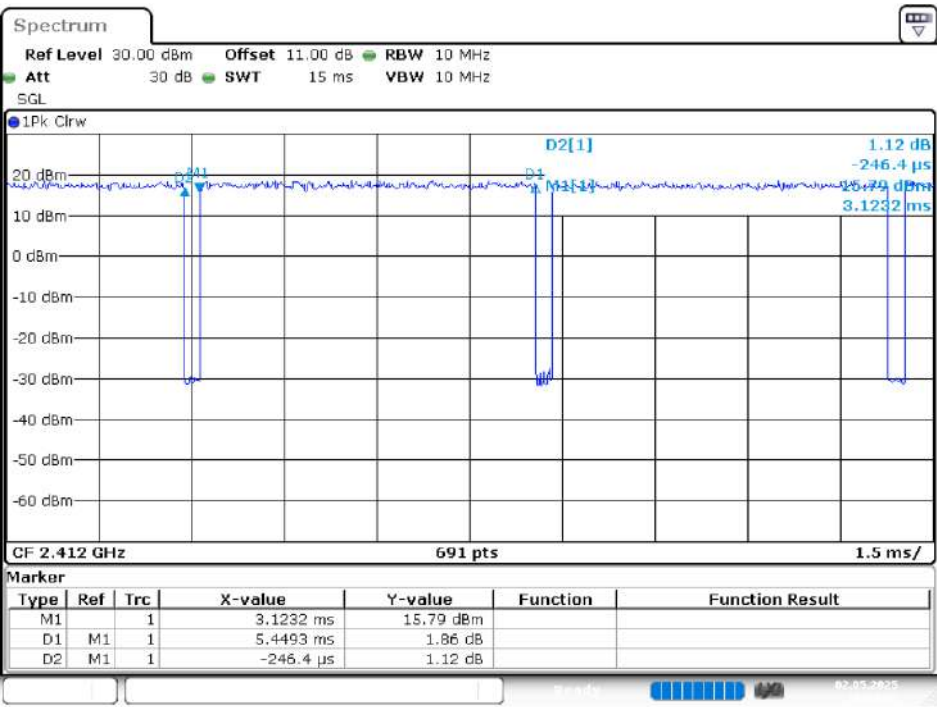
Date: 2.MAY.2025 09:35:15

G Mode



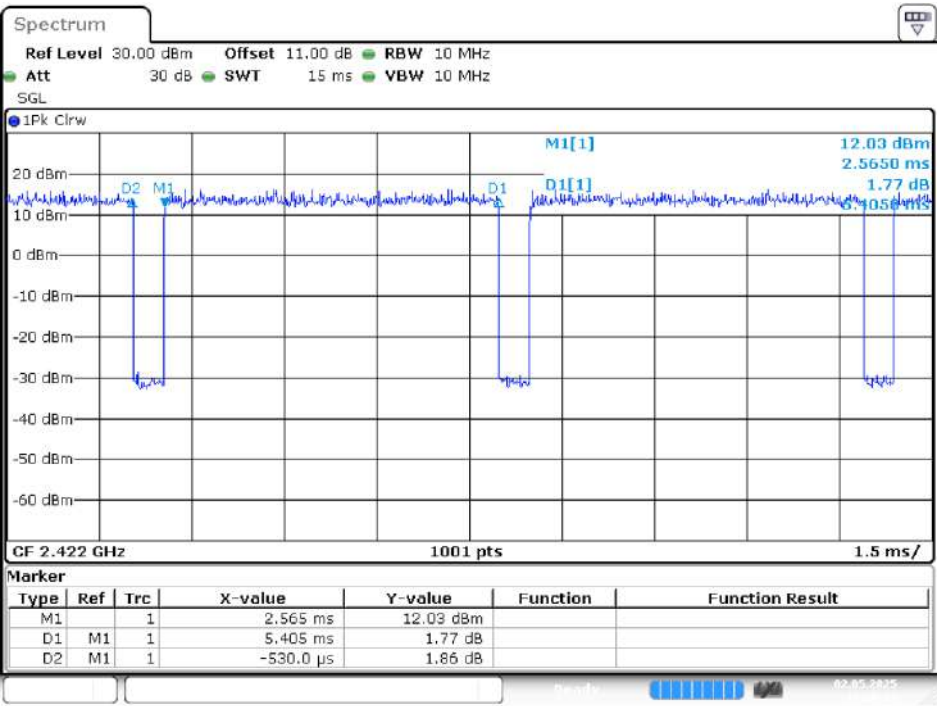
Date: 2.MAY.2025 18:25:19

N20 Mode



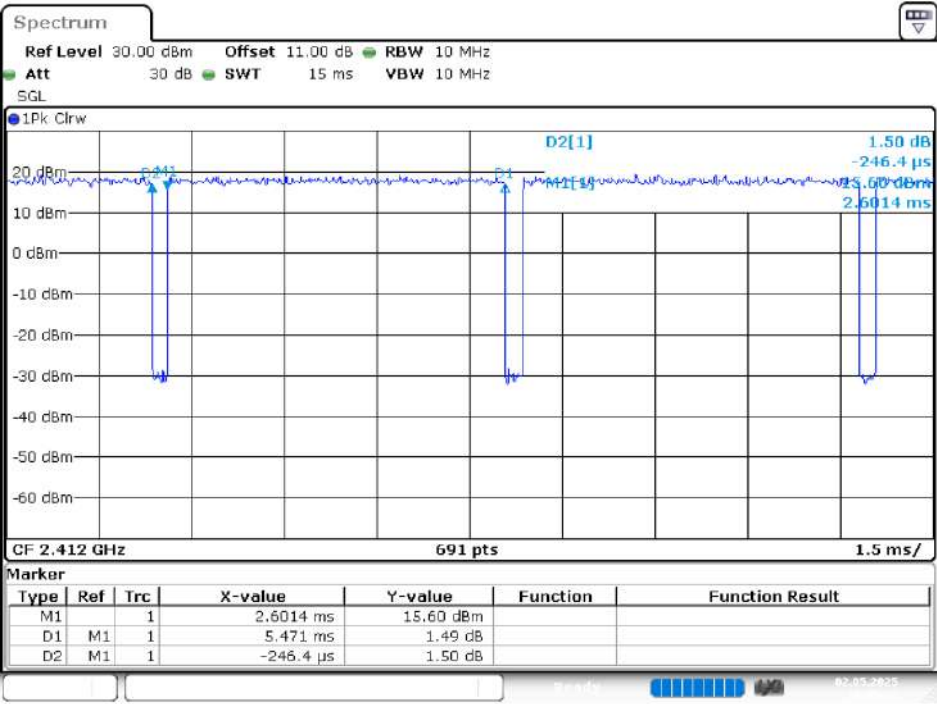
Date: 2.MAY.2025 18:34:53

N40 Mode



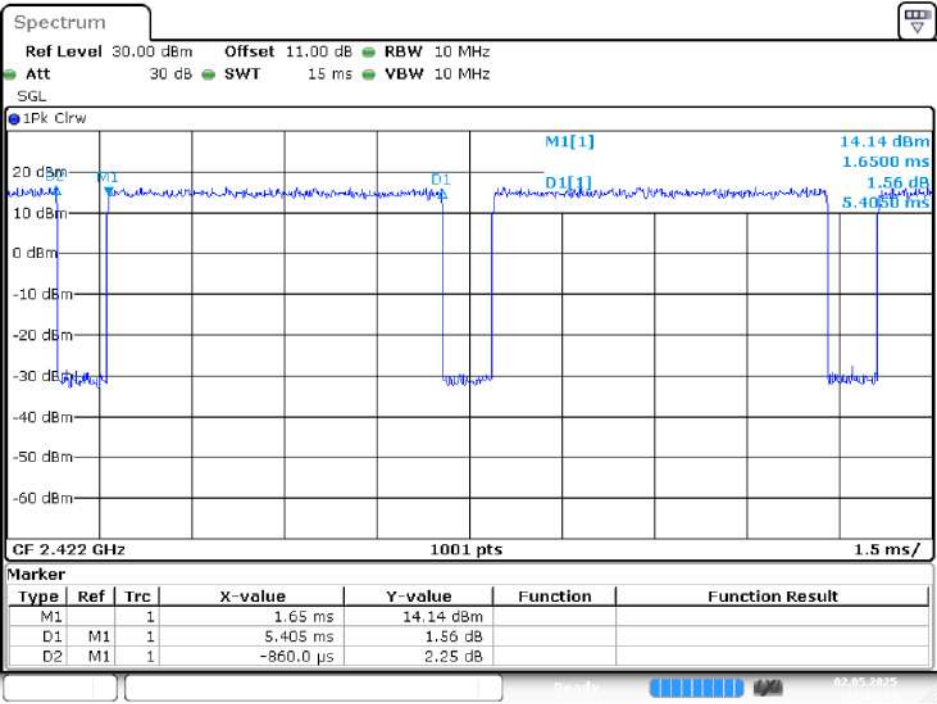
Date: 2.MAY.2025 13:20:12

AX20 Mode



Date: 2.MAY.2025 18:45:18

AX40 Mode



Date: 2.MAY.2025 13:17:13

3 Summary of Test Results

Rules	Description of Test	Results
FCC §15.203 RSS-Gen §6.8	Antenna Requirement	Compliance
FCC §15.207(a) RSS-Gen §8.8	AC Line Conducted Emissions	Compliance
FCC §15.205, §15.209, §15.247(d) RSS-247 §5.5 RSS-Gen §8.9 RSS-Gen §8.10	Spurious Emissions	Compliance
FCC §15.247(a)(2) RSS-247 §5.2(a) RSS-Gen §6.7	Emission Bandwidth	Compliance
FCC §15.247(b)(3) RSS-247 §5.4(d)	Maximum Peak Output Power	Compliance
FCC §15.247(d) RSS-247 §5.5	100 kHz Bandwidth of Frequency Band Edge	Compliance
FCC §15.247(e) RSS-247 §5.2(b)	Power Spectral Density	Compliance

4 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due Date
AC Line Conduction Room (CON-A)					
LISN	Rohde & Schwarz	ENV216	101612	2025/2/17	2026/2/17
EMI Test Receiver	Rohde & Schwarz	ESW	100947	2025/5/28	2026/5/28
RF Cable	EMEC	EM-CB5D	1	2024/6/5	2025/7/5
Software	AUDIX	E3	V9.150826k	N.C.R	N.C.R
Radiation 3M Room (966-A)					
Active Loop Antenna	ETS-Lindgren	6502	35796	2025/3/27	2026/3/27
Bilog Antenna with 6 dB Attenuator	SUNOL SCIENCES & MINI-CIRCUITS	JB6/UNAT-6+	A050115/1554 2_01	2025/1/16	2026/1/16
Horn Antenna	ETS-Lindgren	3115	40736	2025/5/6	2026/5/6
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	2025/4/10	2026/4/10
Preamplifier	BACL	BACL-1313-A1840	4011511	2025/2/12	2026/2/12
EMI Test Receiver	Rohde & Schwarz	ESR3	102415	2025/3/19	2026/3/19
Spectrum Analyzer	Rohde & Schwarz	FSV40	101939	2025/3/27	2026/3/27
Microflex Cable	UTIFLEX	UFB197C-1-2362-70U-70U	225757-001	2024/12/20	2025/12/20
Coaxial Cable	UTIFLEX	UFB311A-Q-1440-300300	220490-006	2024/12/20	2025/12/20
Coaxial Cable	COMMATE	PEWC	8Dr	2024/12/20	2025/12/20
Cable	EMC	EMC105-SM-SM-10000	201003	2024/12/20	2025/12/20
Coaxial Cable	JUNFLON	J12J102248-00-B-5	AUG-07-15-044	2024/12/20	2025/12/20
Coaxial Cable	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 Room					
Spectrum Analyzer	Rohde & Schwarz	FSV40	101140	2025/2/11	2026/2/11
Cable	UTIFLEX	UFA210A	9435	2024/10/1	2025/10/1
Power Sensor	Boonton	RTP5006	11037	2024/5/21	2025/5/21
Attenuator	MCL	BW-S10W5+	1419	2025/3/6	2026/3/6

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

5 FCC §15.203 & RSS-GEN §6.8 – 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.

According to RSS-Gen 6.8:

The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list. For expediting the testing, measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter output power set at the maximum level. However, the transmitter shall comply with the applicable requirements under all operational conditions and when in combination with any type of antenna from the list provided in the test report (and in the notice to be included in the user manual, provided below).

When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer.

The test report shall state the RF power, output power setting and spurious emission measurements with each antenna type that is used with the transmitter being tested.

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

This radio transmitter [enter the device's ISED certification number] has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Immediately following the above notice, the manufacturer shall provide a list of all antenna types which can be used with the transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna type

5.2 Antenna Information

EUT Model	Type	Antenna Gain	Impedance
WA512G-AX-D	Dipole Antenna	3.58 dBi	50Ω
WA512G-AX-IP67	Dipole Antenna	3.45 dBi	50Ω

WA512G-AX-D : Unit uses a unique coupling to the intentional radiator.

WA512G-AX-IP67: Unit was professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

Result: Compliance

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

6 FCC §15.207(a) & RSS-GEN §8.8 – AC Line Conducted Emissions

6.1 Applicable Standard

According to §15.207

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

According to RSS-GEN §8.8

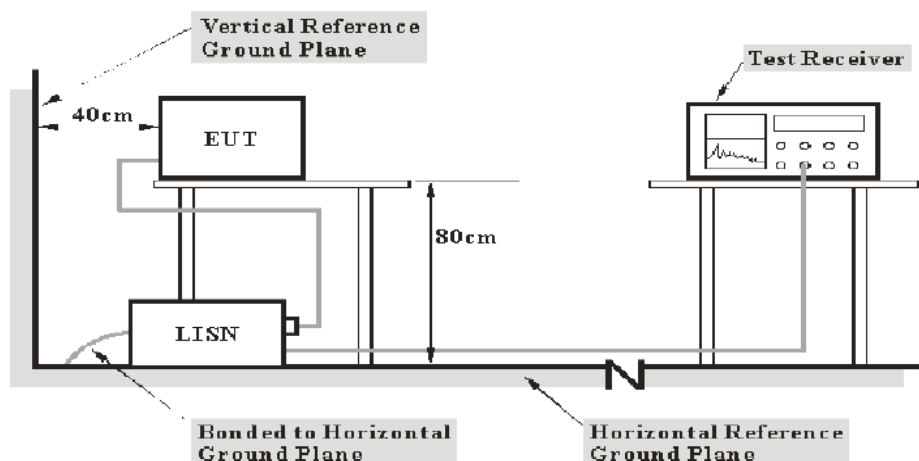
Unless stated otherwise in the applicable RSS, for radio apparatus that are designed to be connected to the public utility AC power network, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the range 150 kHz to 30 MHz shall not exceed the limits in table 4, as measured using a 50 μ H / 50 Ω line impedance stabilization network. This requirement applies for the radio frequency voltage measured between each power line and the ground terminal of each AC power-line mains cable of the EUT.

For an EUT that connects to the AC power lines indirectly, through another device, the requirement for compliance with the limits in table 4 shall apply at the terminals of the AC power-line mains cable of a representative support device, while it provides power to the EUT. The lower limit applies at the boundary between the frequency ranges. The device used to power the EUT shall be representative of typical applications.

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

Note 1: Decreases with the logarithm of the frequency.

6.2 EUT Setup



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

The setup of EUT is according with per ANSI C63.10-2020 + Cor.1-2023 measurement procedure. The specification used was with the FCC Part 15.207 and RSS-GEN limits.

6.3 EMI Test Receiver Setup

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

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

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

6.4 Test Procedure

During the conducted emission test, the POE was connected to the outlet of the LISN.

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

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

6.5 Corrected Factor & Over Limit Calculation

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

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

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

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

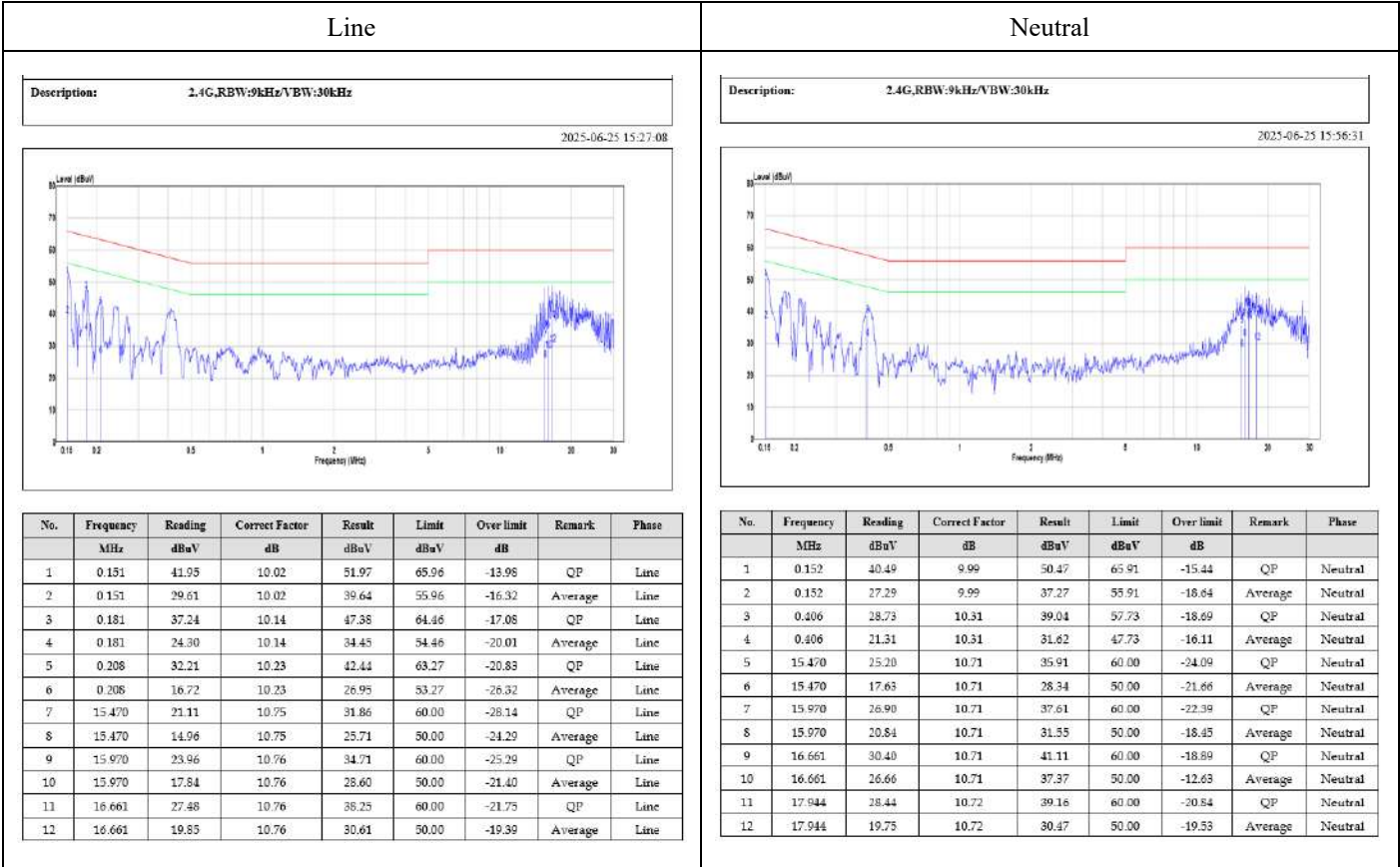
6.6 Test Results

Test Mode: Transmitting

Main: AC120 V, 60 Hz

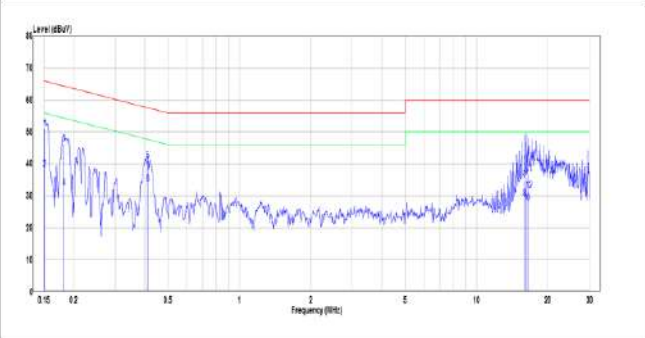
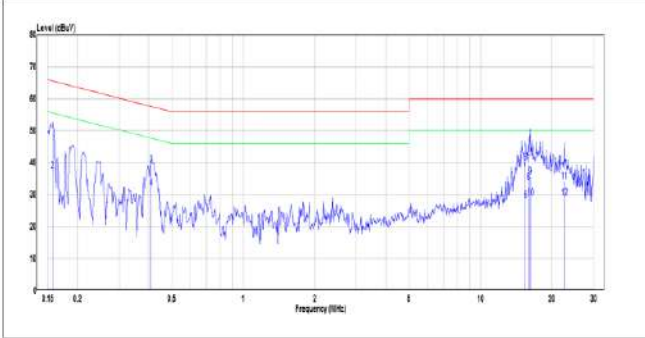
Non Beamforming

(Worst case is 802.11ax HE40 mode, Middle channel)



Beamforming

(Worst case is 802.11ax HE40 mode, Middle channel)

Line									Neutral								
Description: 2.4G,RBW:9kHz/VBW:30kHz 2025-06-25 15:38:16									Description: 2.4G,RBW:9kHz/VBW:30kHz 2025-06-25 15:54:43								
																	
No.	Frequency	Reading	Correct Factor	Result	Limit	Over limit	Remark	Phase	No.	Frequency	Reading	Correct Factor	Result	Limit	Over limit	Remark	Phase
	MHz	dBuV	dB	dBuV	dBuV	dB				MHz	dBuV	dB	dBuV	dBuV	dB		
1	0.151	41.16	10.02	51.19	65.96	-14.77	QP	Line	1	0.157	39.90	10.01	49.91	65.60	-15.69	QP	Neutral
2	0.151	28.23	10.02	38.25	55.96	-17.71	Average	Line	2	0.157	27.50	10.01	37.51	55.60	-18.10	Average	Neutral
3	0.182	36.17	10.15	46.32	64.42	-18.09	QP	Line	3	0.408	29.15	10.31	39.46	57.68	-18.22	QP	Neutral
4	0.182	22.39	10.15	32.54	54.42	-21.88	Average	Line	4	0.408	21.72	10.31	32.03	47.68	-15.65	Average	Neutral
5	0.410	30.64	10.36	41.00	57.64	-16.64	QP	Line	5	15.470	29.23	10.71	39.94	60.00	-20.06	QP	Neutral
6	0.410	23.33	10.36	33.69	47.64	-13.95	Average	Line	6	15.470	17.56	10.71	28.26	50.00	-21.74	Average	Neutral
7	15.970	24.10	10.76	34.86	60.00	-25.14	QP	Line	7	15.970	28.60	10.71	39.31	60.00	-20.69	QP	Neutral
8	15.970	18.33	10.76	29.09	50.00	-20.91	Average	Line	8	15.970	23.31	10.71	34.02	50.00	-15.98	Average	Neutral
9	16.226	24.99	10.76	35.75	60.00	-24.25	QP	Line	9	16.226	24.80	10.71	35.51	60.00	-24.49	QP	Neutral
10	16.226	17.17	10.76	27.93	50.00	-22.07	Average	Line	10	16.226	18.12	10.71	28.83	50.00	-21.17	Average	Neutral
11	16.661	26.15	10.76	36.91	60.00	-23.09	QP	Line	11	22.535	23.44	10.72	34.16	60.00	-25.84	QP	Neutral
12	16.661	20.92	10.76	31.69	50.00	-18.31	Average	Line	12	22.535	18.24	10.72	28.96	50.00	-21.04	Average	Neutral

Note:

Result = Reading + Factor

Over Limit = Result - Limit Line

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

7 FCC §15.209, §15.205, §15.247(d) & RSS-247 §5.5, RSS-GEN §8.9, §8.10 – Spurious Emissions

7.1 Applicable Standard

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

As per RSS-Gen 8.10,

Restricted frequency bands, identified in table 7, are designated primarily for safety-of-life services (distress calling and certain aeronautical activities), certain satellite downlinks, radio astronomy and some government uses. Except where otherwise indicated, the following conditions related to the restricted frequency bands apply:

(a)The transmit frequency, including fundamental components of modulation, of licence-exempt radio apparatus shall not fall within the restricted frequency bands listed in table 7 except for apparatus compliant with RSS-287, Emergency Position Indicating Radio Beacons (EPIRB), Emergency Locator Transmitters (ELT), Personal Locator Beacons (PLB), and Maritime Survivor Locator Devices (MSLD).

(b)Unwanted emissions that fall into restricted frequency bands listed in table 7 shall comply with the limits specified in table 5 and table 6.

(c)Unwanted emissions that do not fall within the restricted frequency bands listed in table 7 shall comply either with the limits specified in the applicable RSS or with those specified in table 5 and table 6.

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) and RSS-GEN §8.9: 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.

As per RSS-GEN §8.9: Except where otherwise indicated in the applicable RSS, radiated emissions shall comply with the field strength limits shown in table 5 and table 6. Additionally, the level of any transmitter unwanted emission shall not exceed the level of the transmitter's fundamental emission.

Table 5 – General field strength limits at frequencies above 30 MHz

Frequency (MHz)	Field Strength (μV/m at 3 m)
30 - 88	100
88 - 216	150
216 - 960	200
Above 960	500

Table 6 – General field strength limits at frequencies below 30 MHz

Frequency (MHz)	Field Strength (H-Field) (μA/m)	Measurement distance (m)
9 - 490 kHz ^{Note 1}	6.37/F (F in kHz)	300
490 - 1705 kHz	63.7/F (F in kHz)	30
1.705 - 30 MHz	0.08	30

Note 1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

Note 2: The limit was added 51.5dB to convert the limit from dBuA/m to dBuV/m.

According to ANSI C63.10-2020 + Cor.1-2023, section 5.3.3

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

Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. Measurements from

18 GHz to 40 GHz are typically made at distances significantly less than 3 m from the EUT. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade of distance (inverse of linear distance for field-strength measurements or inverse of linear distance-squared for power-density measurements).

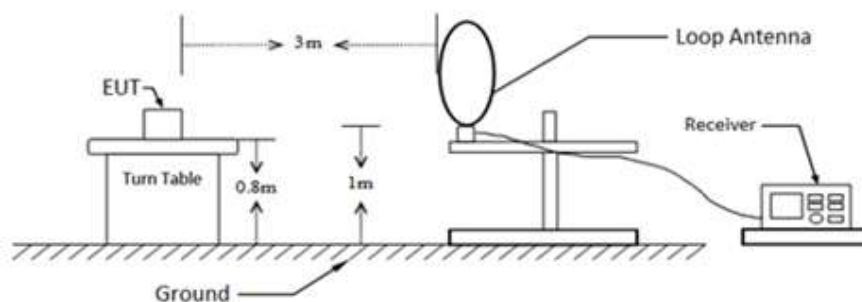
As per FCC §15.247 (d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

As per RSS-247 5.5,

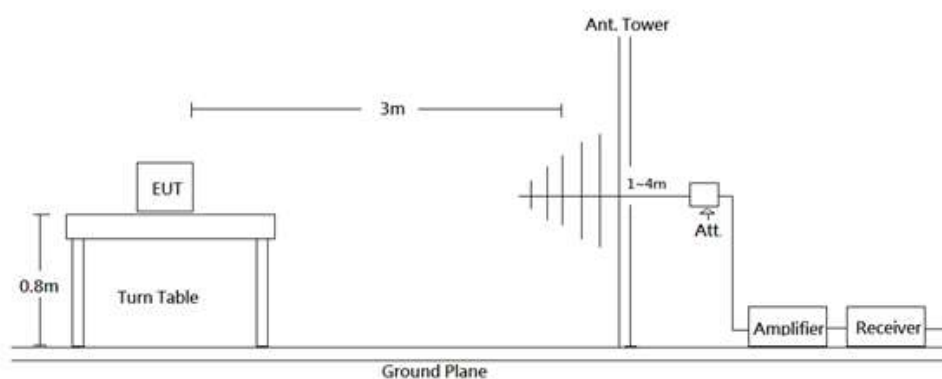
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

7.2 EUT Setup

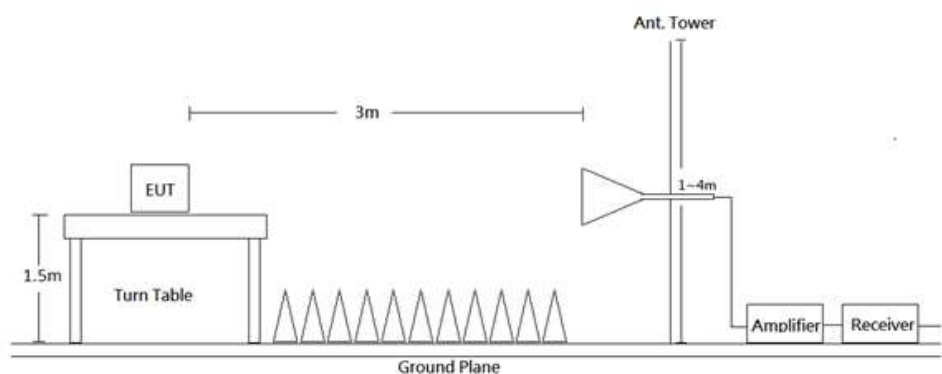
9kHz-30MHz:



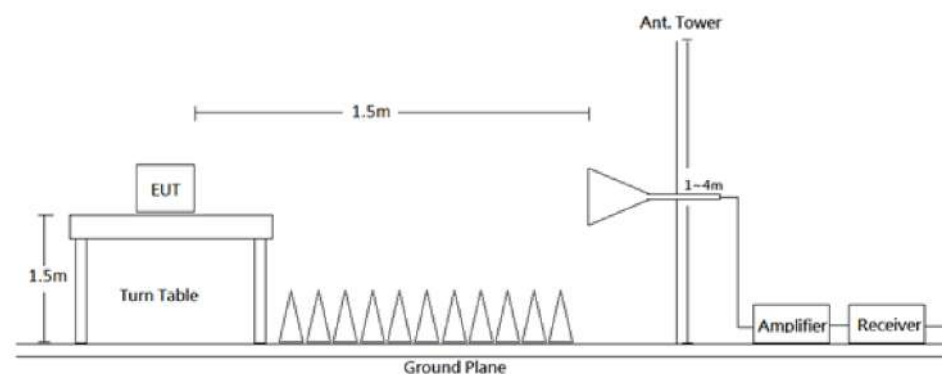
30MHz-1GHz:



1-18 GHz:



18-26.5 GHz:



Radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2020 + Cor.1-2023. The specification used was the FCC Part 15.209, FCC 15.247 and RSS-Gen, RSS-247 Limits.

7.3 EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9 kHz 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/100 kHz	300 kHz	/	QP/PK	QP/PK
Above 1 GHz	Pre-scan :				
	1 MHz	3 MHz	/	PK	PK
	1 MHz	1 kHz	>98%	Ave	PK
	1 MHz	$\geq 1/\text{Ton}$, not less than 200 Hz	<98%	Ave	PK
	Final measurement for emission identified during pre-scan :				
	1 MHz	3 MHz	/	PK	PK
	1 MHz	10 Hz	>98%	Ave	PK
	1 MHz	$\geq 1/\text{Ton}$	<98%	Ave	PK

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

7.4 Test Procedure

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

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

7.5 Corrected Factor & Margin Calculation

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

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

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

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

7.6 Test Results

Test Mode: Transmitting

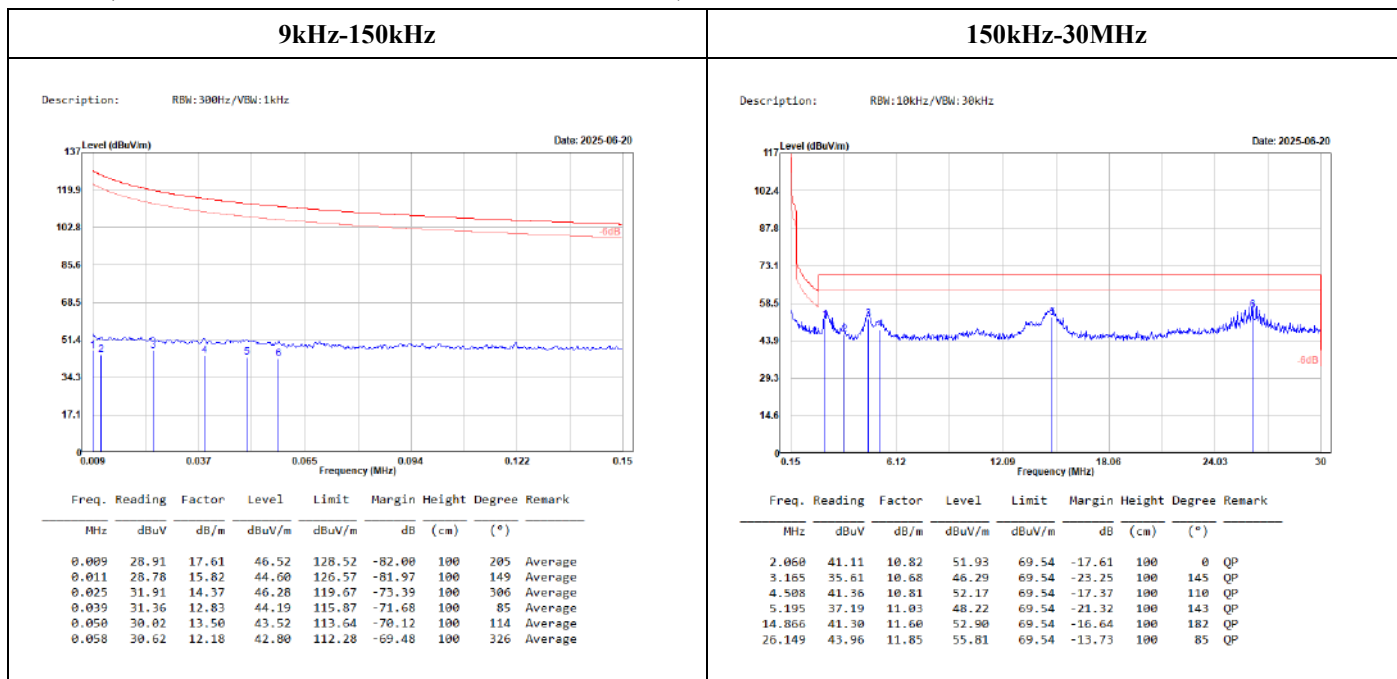
(Pre-scan with three orthogonal axis, and worse case as Y axis.)

9kHz-30MHz:

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

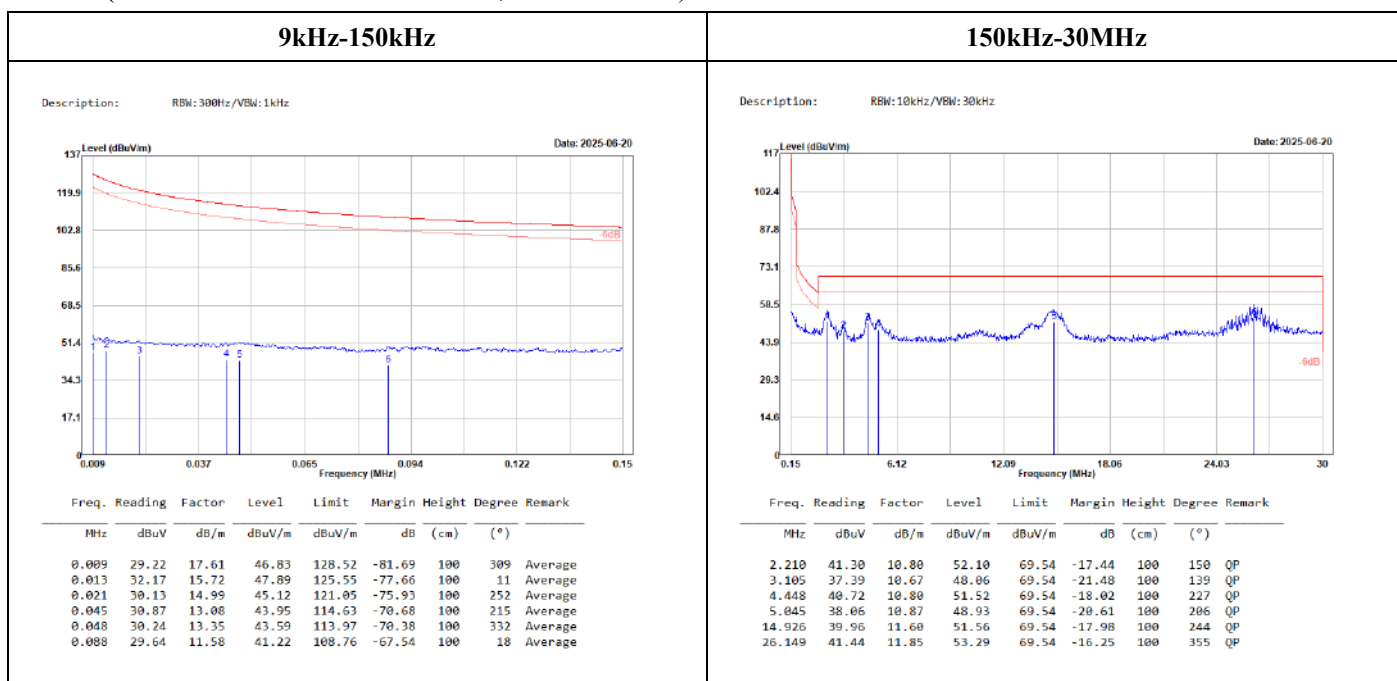
Non Beamforming

(Worst case is 802.11ax HE40 mode, Middle channel)



Beamforming

(Worst case is 802.11ax HE40 mode, Middle channel)



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

30MHz-1GHz:

Non Beamforming

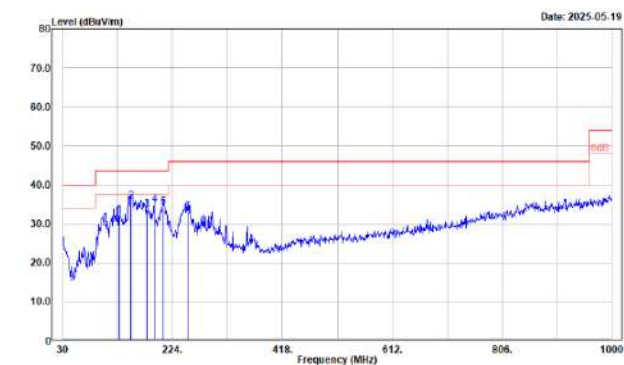
(Worst case is 802.11ax HE40 mode)

Mode 3

Low channel

Horizontal

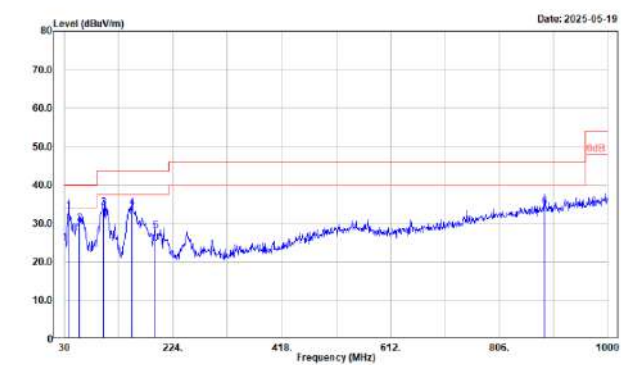
Description: TX-LOW-POE, RBW:100kHz/VBW:300kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
129.910	41.04	-8.93	32.11	43.50	-11.39	200	89	QP
151.250	45.34	-9.54	35.80	43.50	-7.70	100	51	QP
179.380	45.05	-11.36	33.69	43.50	-9.81	100	82	QP
191.990	45.74	-10.92	34.82	43.50	-8.68	300	326	QP
207.510	45.72	-11.46	34.26	43.50	-9.24	100	358	QP
250.190	43.67	-10.42	33.25	46.00	-12.75	200	66	QP

Vertical

Description: TX-LOW-POE, RBW:100kHz/VBW:300kHz

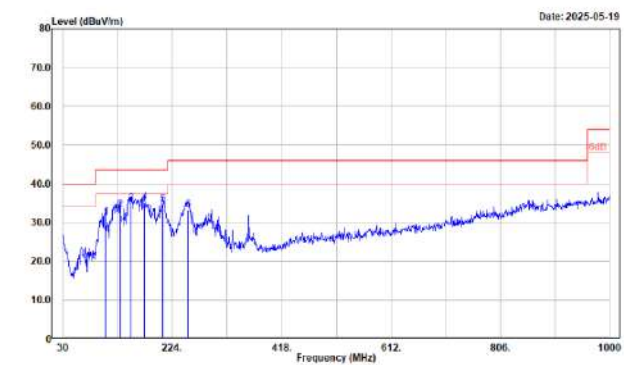


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
37.760	40.96	-7.70	33.26	40.00	-6.74	300	210	QP
57.160	45.44	-15.62	29.82	40.00	-10.18	100	141	QP
99.840	46.87	-12.85	34.02	43.50	-9.48	200	36	QP
151.250	43.64	-9.54	34.10	43.50	-9.40	100	313	QP
191.990	38.80	-10.92	27.88	43.50	-15.62	300	332	QP
887.480	29.50	4.76	34.26	46.00	-11.74	100	2	QP

Middle channel

Horizontal

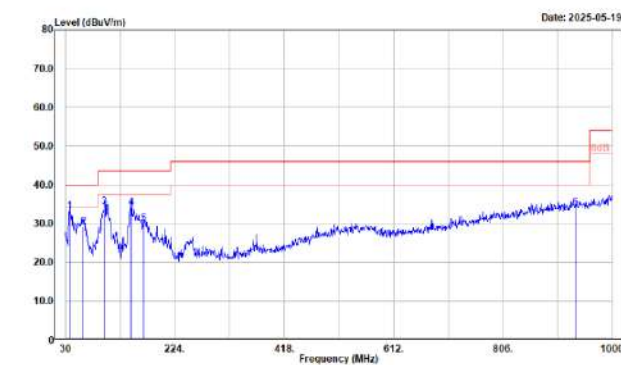
Description: TX-Middle-POE, RBW:100kHz/VBW:300kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
105.660	42.36	-11.20	31.16	43.50	-12.34	100	51	QP
130.880	42.01	-8.92	33.09	43.50	-10.41	200	78	QP
151.250	44.36	-9.54	34.82	43.50	-8.68	100	55	QP
174.530	46.21	-11.10	35.11	43.50	-8.39	200	71	QP
207.510	46.19	-11.46	34.73	43.50	-8.77	100	349	QP
252.130	43.66	-10.41	33.25	46.00	-12.75	300	59	QP

Vertical

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

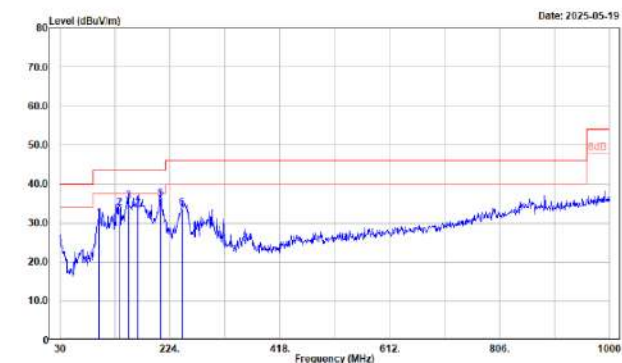


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
37.760	40.96	-7.70	33.26	40.00	-6.74	300	237	QP
61.040	44.73	-15.58	29.15	40.00	-10.85	100	84	QP
98.870	47.43	-13.15	34.28	43.50	-9.22	300	40	QP
146.400	43.51	-9.40	34.11	43.50	-9.39	100	309	QP
168.710	40.54	-10.61	29.93	43.50	-13.57	200	304	QP
935.010	27.92	6.03	33.95	46.00	-12.05	100	278	QP

High channel

Horizontal

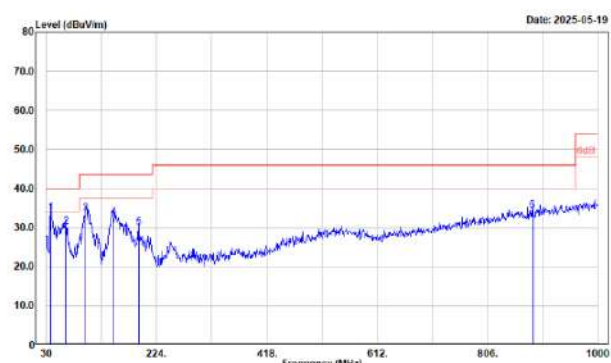
Description: TX-High-POE, RBW:100kHz/VBW:300kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
98.870	44.44	-13.15	31.29	43.50	-12.21	200	37	QP
133.790	42.80	-9.00	33.80	43.50	-9.70	100	82	QP
150.280	45.16	-9.53	35.63	43.50	-7.87	300	51	QP
167.740	45.27	-10.51	34.76	43.50	-8.74	100	79	QP
207.510	47.68	-11.46	36.22	43.50	-7.28	300	10	QP
245.340	44.27	-10.36	33.91	46.00	-12.09	100	63	QP

Vertical

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



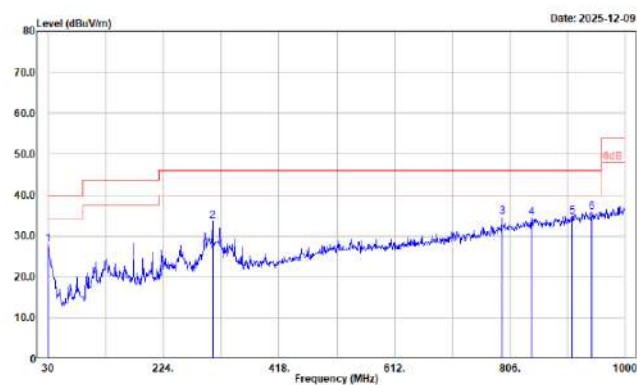
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
37.760	41.52	-7.70	33.82	40.00	-6.18	100	246	QP
64.920	45.48	-15.36	30.12	40.00	-9.88	300	120	QP
98.870	46.75	-13.15	33.60	43.50	-9.90	100	42	QP
147.370	41.98	-9.41	32.57	43.50	-10.93	200	360	QP
191.990	40.78	-10.92	29.86	43.50	-13.64	100	357	QP
884.570	29.57	4.65	34.22	46.00	-11.78	200	73	QP

Mode 4

Low channel

Horizontal

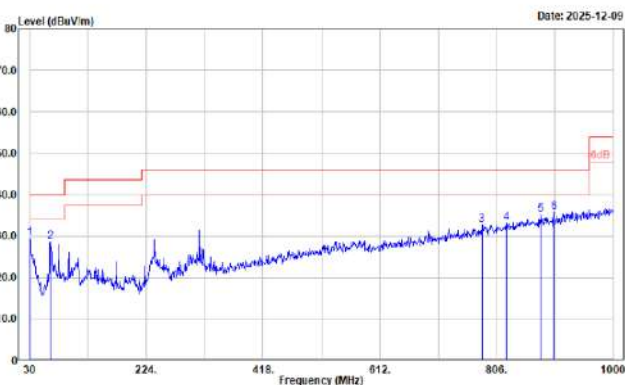
Description: TX-LOW-No-Beamforming, RBW:100kHz/VBW:300kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
30.000	30.34	-2.28	28.06	40.00	-11.94	300	357	QP
306.450	41.63	-8.09	33.54	46.00	-12.46	200	234	QP
792.420	31.86	2.72	34.58	46.00	-11.42	100	130	QP
841.890	30.75	3.76	34.51	46.00	-11.49	200	126	QP
910.760	29.64	5.15	34.79	46.00	-11.21	100	154	QP
943.740	29.92	5.92	35.84	46.00	-10.16	300	72	QP

Vertical

Description: TX-LOW-No-Beamforming, RBW:100kHz/VBW:300kHz

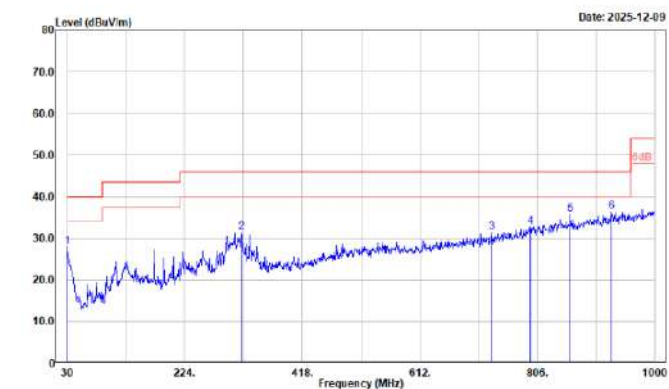


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
30.000	31.82	-2.28	29.54	40.00	-10.46	200	241	QP
64.920	43.92	-15.36	28.56	40.00	-11.44	100	245	QP
781.750	30.41	2.27	32.68	46.00	-13.32	300	192	QP
822.490	30.00	3.23	33.23	46.00	-12.77	100	268	QP
879.720	30.59	4.48	35.07	46.00	-10.93	100	177	QP
901.060	30.72	4.95	35.67	46.00	-10.33	200	129	QP

Middle channel

Horizontal

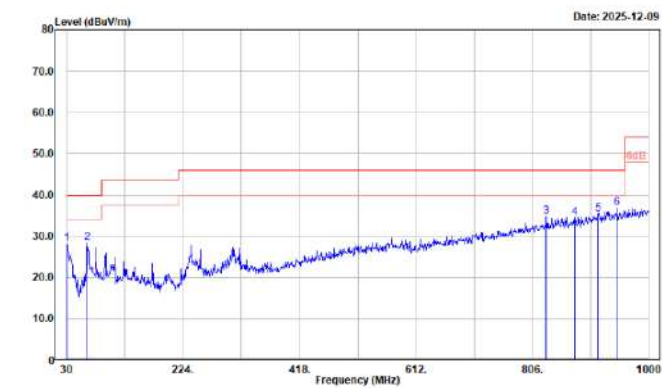
Description: TX-Middle-No-Beamforming, RBW:100kHz/VBW:300kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
30.000	30.27	-2.28	27.99	40.00	-12.01	200	28	QP
318.090	39.28	-7.84	31.44	46.00	-14.56	300	234	QP
730.340	30.68	0.84	31.52	46.00	-14.48	200	123	QP
794.360	29.97	2.81	32.78	46.00	-13.22	100	238	QP
860.320	31.59	4.08	35.67	46.00	-10.33	100	234	QP
928.220	30.59	5.79	36.38	46.00	-9.62	100	47	QP

Vertical

Description: TX-Middle-No-Beamforming, RBW:100kHz/VBW:300kHz

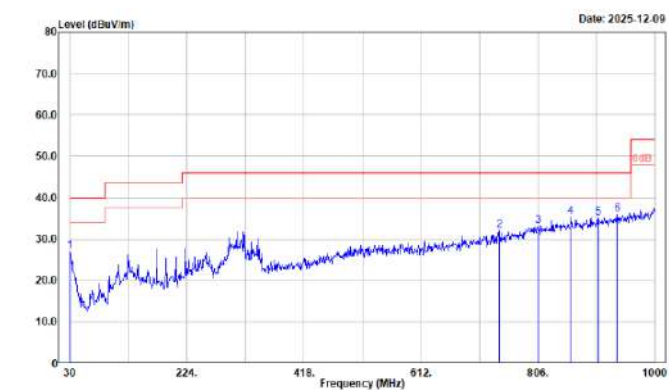


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
30.000	30.56	-2.28	28.28	40.00	-11.72	100	344	QP
64.920	43.75	-15.36	28.39	40.00	-11.61	300	321	QP
829.280	31.23	3.40	34.63	46.00	-11.37	100	285	QP
875.840	30.29	4.26	34.55	46.00	-11.45	200	90	QP
915.610	30.01	5.30	35.31	46.00	-10.69	100	360	QP
946.650	30.87	5.93	36.80	46.00	-9.20	200	90	QP

High channel

Horizontal

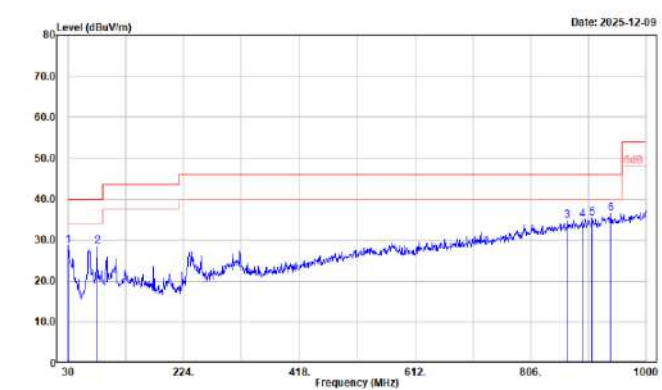
Description: TX-High-No-Beamforming, RBW:100kHz/VBW:300kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
30.000	29.47	-2.28	27.19	40.00	-12.81	100	256	QP
741.980	31.08	1.11	32.19	46.00	-13.81	200	156	QP
806.970	30.32	2.90	33.22	46.00	-12.78	300	188	QP
860.320	31.26	4.08	35.34	46.00	-10.66	100	222	QP
906.880	30.09	5.08	35.17	46.00	-10.83	300	211	QP
937.920	29.96	5.93	35.89	46.00	-10.11	200	313	QP

Vertical

Description: TX-High-No-Beamforming, RBW:100kHz/VBW:300kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
30.000	30.96	-2.28	28.68	40.00	-11.32	200	104	QP
78.500	43.72	-15.36	28.36	40.00	-11.64	300	360	QP
868.080	30.51	4.15	34.66	46.00	-11.34	100	262	QP
892.330	30.07	4.88	34.95	46.00	-11.05	100	0	QP
909.790	30.20	5.11	35.31	46.00	-10.69	200	257	QP
940.830	30.45	5.89	36.34	46.00	-9.66	300	27	QP

Level = Reading + Factor.

Margin = Level - Limit.

Factor = Antenna Factor + Cable Loss - Amplifier Gain.

Beamforming

(Worst case is 802.11ax HE40 mode)

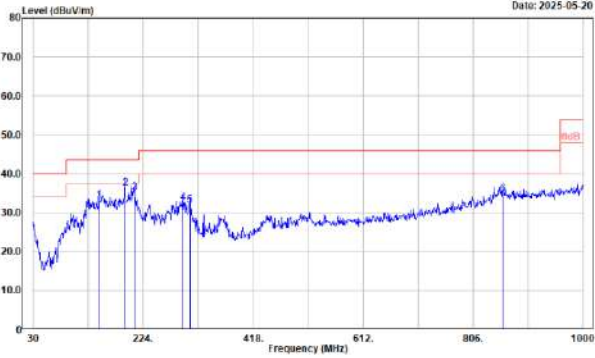
Mode 3

Low channel

Horizontal

Description: TX-LOW-Beamforming, RBW:100kHz/VBW:300kHz

Date: 2025-05-20

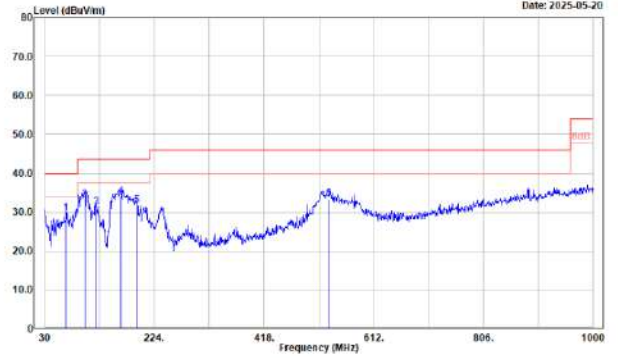


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
146.400	42.66	-9.40	33.26	43.50	-10.24	100	41	QP
191.990	47.10	-10.92	36.18	43.50	-7.32	300	110	QP
208.480	46.80	-11.60	35.20	43.50	-8.30	100	193	QP
293.840	40.68	-8.14	32.54	46.00	-13.46	100	343	QP
306.450	40.06	-8.09	31.97	46.00	-14.03	200	360	QP
858.380	30.61	4.05	34.66	46.00	-11.34	100	290	QP

Vertical

Description: TX-LOW-Beamforming, RBW:100kHz/VBW:300kHz

Date: 2025-05-20



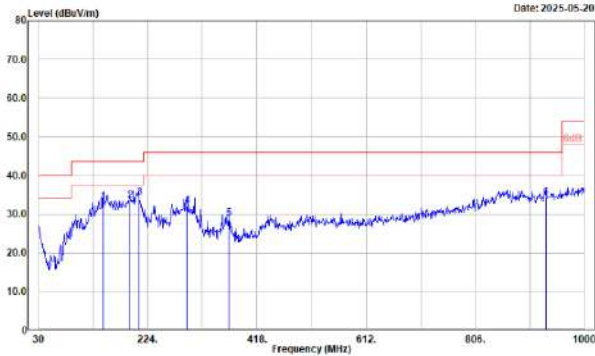
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
67.830	44.79	-14.99	29.80	40.00	-10.20	100	82	QP
100.810	45.74	-12.48	33.26	43.50	-10.24	100	360	QP
120.210	40.23	-9.10	31.13	43.50	-12.37	300	17	QP
163.860	44.09	-10.14	33.95	43.50	-9.55	100	286	QP
191.990	42.50	-10.92	31.58	43.50	-11.92	100	140	QP
531.490	36.25	-2.79	33.46	46.00	-12.54	200	357	QP

Middle channel

Horizontal

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

Date: 2025-05-20

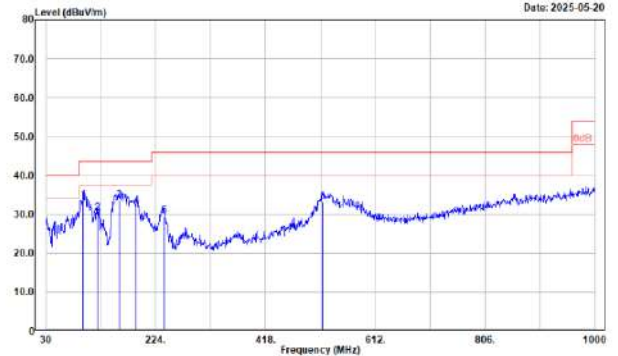


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
145.430	42.69	-9.50	33.19	43.50	-10.31	200	59	QP
191.990	44.33	-10.92	33.41	43.50	-10.09	100	89	QP
208.480	45.85	-11.60	34.25	43.50	-9.25	100	155	QP
293.840	40.30	-8.14	32.16	46.00	-13.84	100	339	QP
368.530	35.55	-6.73	28.82	46.00	-17.18	300	360	QP
931.130	28.29	5.90	34.19	46.00	-11.81	100	308	QP

Vertical

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

Date: 2025-05-20

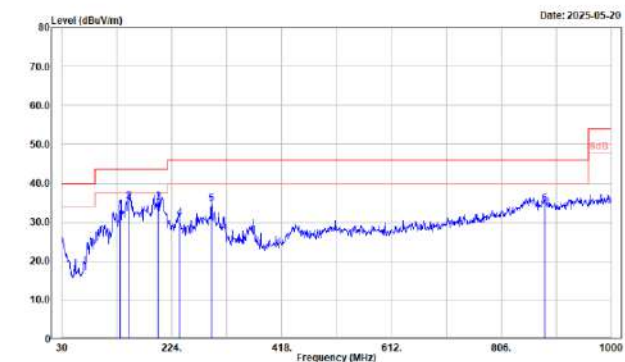


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
95.960	47.38	-13.86	33.52	43.50	-9.98	100	46	QP
120.210	39.38	-9.10	30.28	43.50	-13.22	100	333	QP
159.010	43.31	-9.77	33.54	43.50	-9.96	100	307	QP
190.050	43.29	-11.13	32.16	43.50	-11.34	200	121	QP
238.550	39.92	-10.54	29.38	46.00	-16.62	100	264	QP
518.880	35.99	-2.83	33.16	46.00	-12.84	300	10	QP

High channel

Horizontal

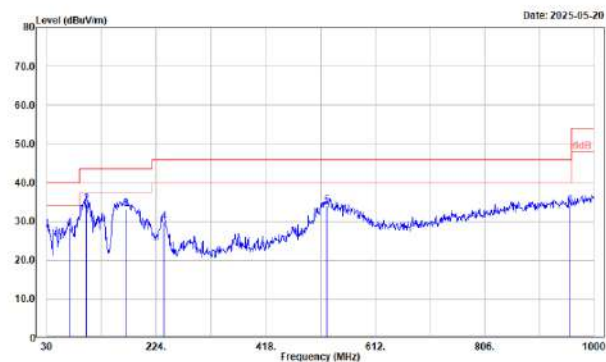
Description: TX-High-Beamforming, RBW:100kHz/VBW:300kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
132.820	42.18	-9.03	33.15	43.50	-10.35	100	84	QP
147.370	44.67	-9.41	35.26	43.50	-8.24	200	56	QP
199.750	44.56	-9.38	35.18	43.50	-8.32	100	60	QP
236.610	41.53	-10.63	30.90	46.00	-15.10	300	41	QP
293.840	42.76	-8.14	34.62	46.00	-11.38	100	338	QP
881.660	30.15	4.55	34.70	46.00	-11.30	100	149	QP

Vertical

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



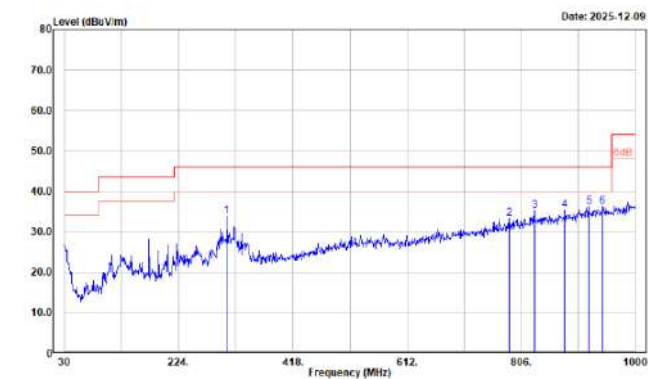
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
70.740	43.28	-15.03	28.25	40.00	-11.75	200	88	QP
99.840	47.28	-12.85	34.43	43.50	-9.07	100	1	QP
169.680	43.96	-10.77	33.19	43.50	-10.31	300	257	QP
237.580	40.58	-10.59	29.99	46.00	-16.01	100	292	QP
525.670	36.90	-2.88	34.02	46.00	-11.98	100	350	QP
957.320	27.79	6.14	33.93	46.00	-12.07	100	2	QP

Mode 4

Low channel

Horizontal

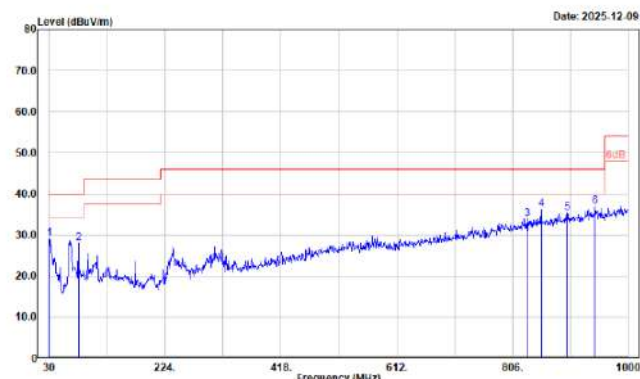
Description: TX-LOW-Beamforming, RBW:100kHz/VBW:300kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
306.450	41.92	-8.09	33.83	46.00	-12.17	200	257	QP
785.630	30.68	2.45	33.13	46.00	-12.87	300	63	QP
828.310	31.73	3.37	35.10	46.00	-10.90	100	63	QP
879.720	30.91	4.48	35.39	46.00	-10.61	200	272	QP
920.460	30.65	5.46	36.11	46.00	-9.89	300	233	QP
943.740	30.35	5.92	36.27	46.00	-9.73	100	349	QP

Vertical

Description: TX-LOW-Beamforming, RBW:100kHz/VBW:300kHz

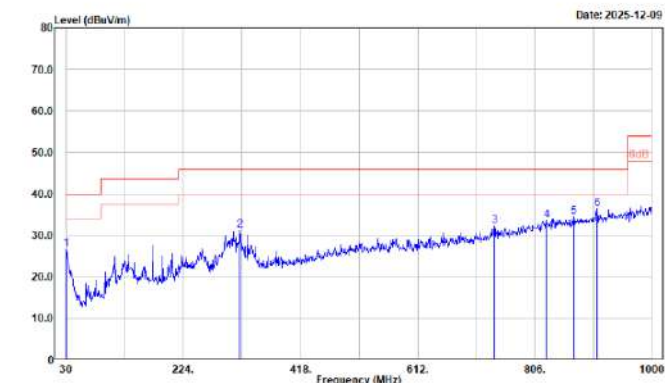


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
30.000	31.30	-2.28	29.02	40.00	-10.98	300	186	QP
78.500	43.30	-15.36	27.94	40.00	-12.06	100	51	QP
830.250	30.44	3.42	33.86	46.00	-12.14	200	6	QP
853.530	32.29	3.98	36.27	46.00	-9.73	100	140	QP
897.180	30.47	4.92	35.39	46.00	-10.61	200	55	QP
943.740	30.98	5.92	36.90	46.00	-9.10	100	97	QP

Middle channel

Horizontal

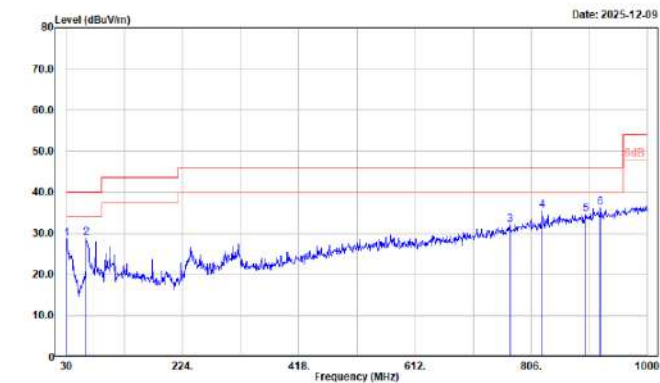
Description: TX-Middle-Beamforming, RBW:100kHz/VBW:300kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
30.000	28.99	-2.28	26.71	40.00	-13.29	200	360	QP
318.090	39.16	-7.84	31.32	46.00	-14.68	300	242	QP
739.070	31.16	1.05	32.21	46.00	-13.79	100	171	QP
825.400	30.25	3.27	33.52	46.00	-12.48	200	56	QP
870.990	30.32	4.15	34.47	46.00	-11.53	100	67	QP
909.790	31.35	5.11	36.46	46.00	-9.54	300	358	QP

Vertical

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

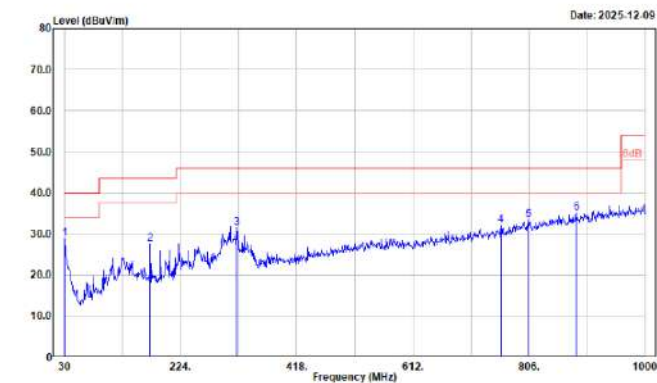


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
30.000	30.92	-2.28	28.64	40.00	-11.36	300	312	QP
62.980	44.20	-15.47	28.73	40.00	-11.27	100	250	QP
770.110	30.49	1.65	32.14	46.00	-13.86	200	30	QP
824.430	32.31	3.25	35.56	46.00	-10.44	100	102	QP
897.180	29.84	4.92	34.76	46.00	-11.24	100	309	QP
921.430	30.62	5.50	36.12	46.00	-9.88	200	26	QP

High channel

Horizontal

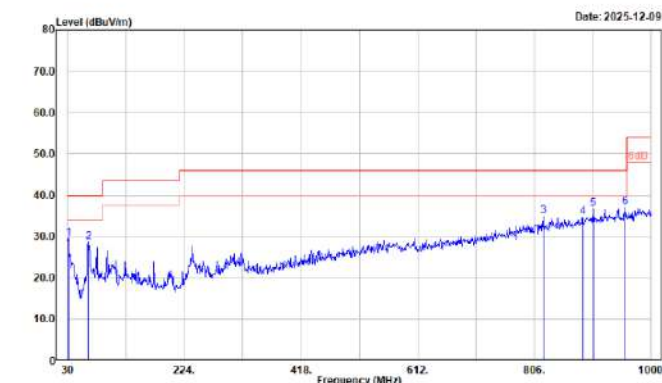
Description: TX-High-Beamforming, RBW:100kHz/VBW:300kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
30.000	31.03	-2.28	28.75	40.00	-11.25	100	137	QP
173.560	38.64	-11.07	27.57	43.50	-15.93	200	86	QP
318.090	39.22	-7.84	31.38	46.00	-14.62	100	255	QP
759.440	30.49	1.50	31.99	46.00	-14.01	300	275	QP
805.030	30.58	2.88	33.46	46.00	-12.54	200	259	QP
885.540	30.42	4.69	35.11	46.00	-10.89	100	359	QP

Vertical

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



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
30.970	33.02	-3.43	29.59	40.00	-10.41	100	305	QP
64.920	44.05	-15.36	28.69	40.00	-11.31	300	260	QP
820.550	31.75	3.21	34.96	46.00	-11.04	200	301	QP
886.510	29.88	4.72	34.60	46.00	-11.40	100	312	QP
903.970	31.59	5.03	36.62	46.00	-9.38	300	8	QP
957.320	30.93	6.14	37.07	46.00	-8.93	100	241	QP

Level = Reading + Factor.

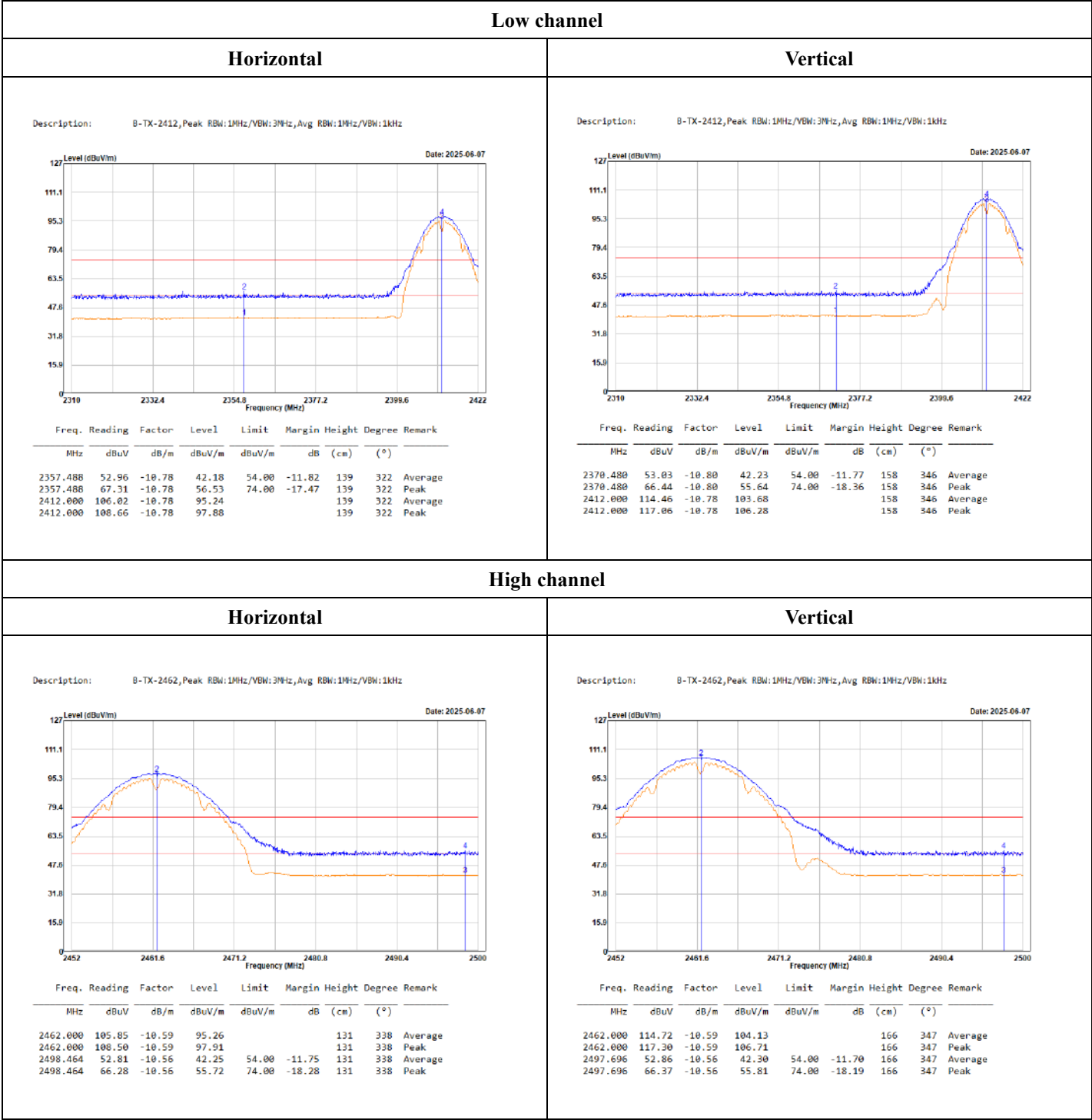
Margin = Level - Limit.

Factor = Antenna Factor + Cable Loss - Amplifier Gain.

Band-Edge:

Non Beamforming

802.11b Mode

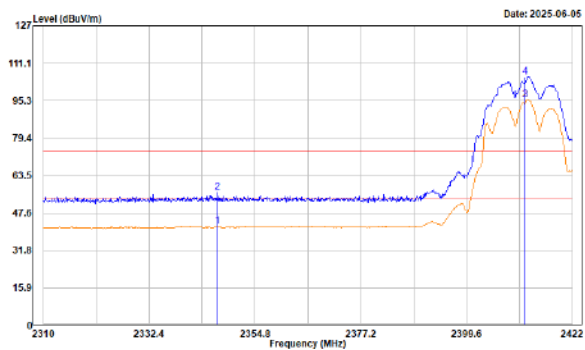


802.11g Mode

Low channel

Horizontal

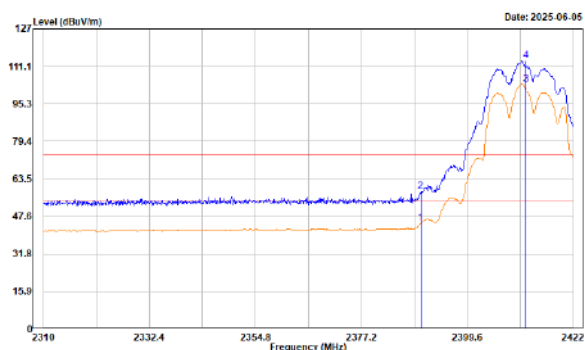
Description: G-TX-2412, Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:1kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2346.848	52.81	-10.80	42.01	54.00	-11.99	205	349	Average
2346.848	67.19	-10.80	56.39	74.00	-17.61	205	349	Peak
2412.000	106.52	-10.78	95.74			205	349	Average
2412.000	116.09	-10.78	105.31				349	Peak

Vertical

Description: G-TX-2412, Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:1kHz

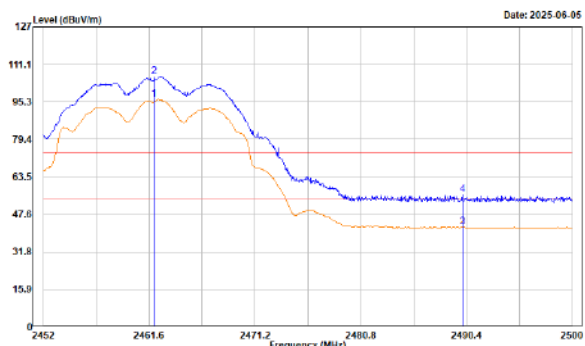


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2389.744	55.68	-10.82	44.86	54.00	-9.14	191	0	Average
2389.744	68.97	-10.82	58.15	74.00	-15.85	191	0	Peak
2412.000	114.43	-10.78	103.65			191	0	Average
2412.000	124.23	-10.78	113.45				191	Peak

High channel

Horizontal

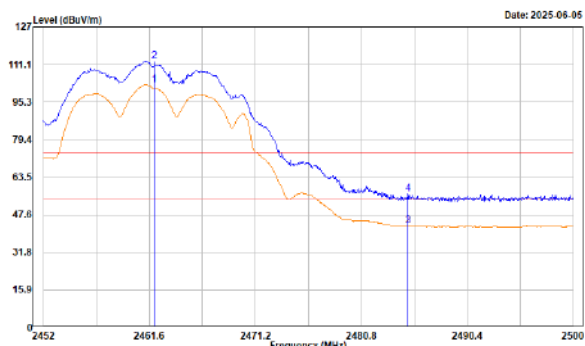
Description: G-TX-2462, Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:1kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2462.000	106.88	-10.59	96.29			144	351	Average
2462.000	116.44	-10.59	105.85			144	351	Peak
2490.016	52.96	-10.57	42.39	54.00	-11.61	144	351	Average
2490.016	66.68	-10.57	56.11	74.00	-17.89	144	351	Peak

Vertical

Description: G-TX-2462, Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:1kHz



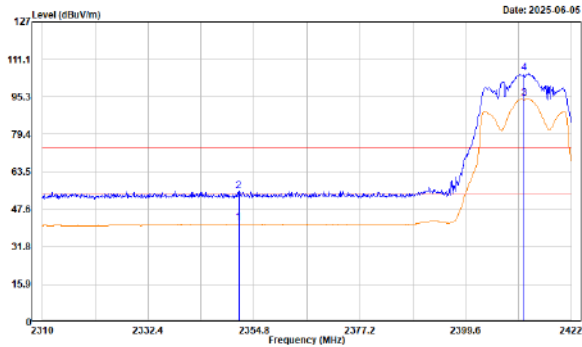
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2462.000	113.17	-10.59	102.58			109	0	Average
2462.000	122.97	-10.59	112.38			109	0	Peak
2485.024	53.51	-10.57	42.94	54.00	-11.06	109	0	Average
2485.024	66.90	-10.57	56.33	74.00	-17.67	109	0	Peak

802.11n HT20 Mode

Low channel

Horizontal

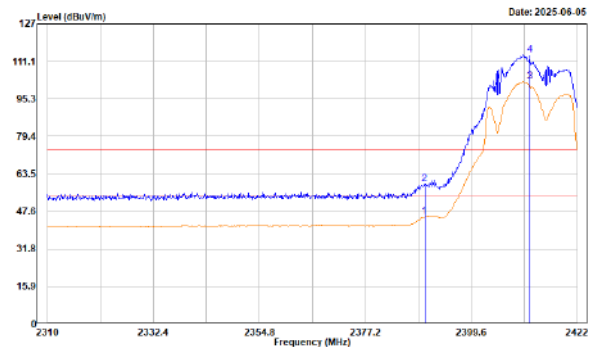
Description: N20-TX-2412,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:200Hz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2351.552	52.59	-10.77	41.82	54.00	-12.18	169	350	Average
2351.552	66.15	-10.77	55.38	74.00	-18.62	169	350	Peak
2412.000	105.54	-10.78	94.76			169	350	Average
2412.000	116.01	-10.78	105.23			169	350	Peak

Vertical

Description: N20-TX-2412,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:200Hz

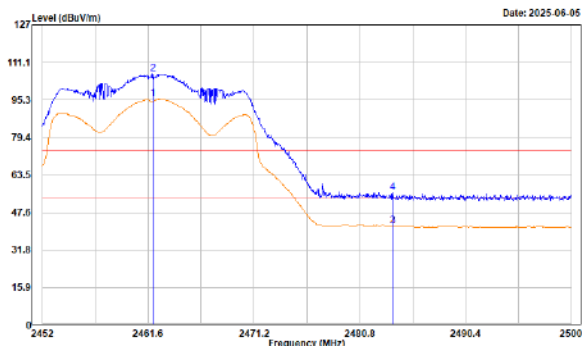


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2389.744	56.17	-10.82	45.35	54.00	-8.65	188	0	Average
2389.744	70.13	-10.82	59.31	74.00	-14.69	188	0	Peak
2412.000	113.21	-10.78	102.43			188	0	Average
2412.000	124.59	-10.78	113.81			188	0	Peak

High channel

Horizontal

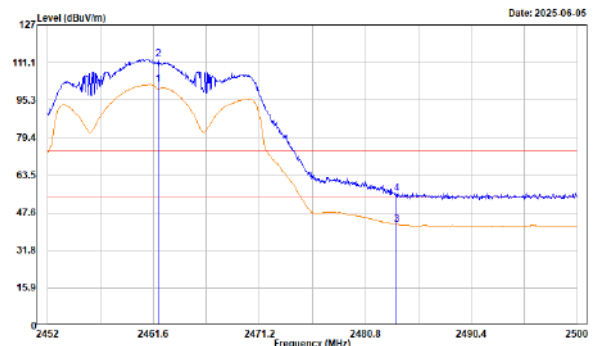
Description: N20-TX-2462,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:200Hz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2462.000	106.16	-10.59	95.57			148	350	Average
2462.000	116.78	-10.59	106.19			148	350	Peak
2483.776	52.53	-10.57	41.96	54.00	-12.04	148	350	Average
2483.776	66.68	-10.57	56.11	74.00	-17.89	148	350	Peak

Vertical

Description: N20-TX-2462,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:200Hz



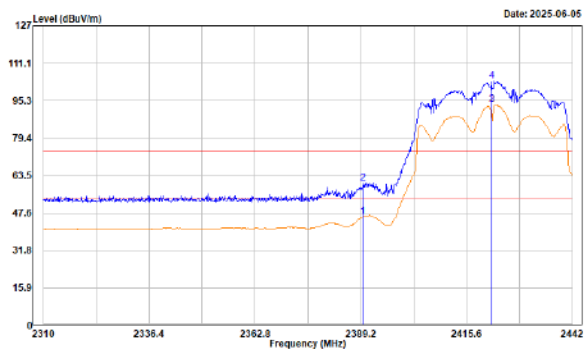
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2462.000	112.36	-10.59	101.77			110	0	Average
2462.000	123.03	-10.59	112.44			110	0	Peak
2483.632	53.37	-10.57	42.80	54.00	-11.20	110	0	Average
2483.632	66.43	-10.57	55.86	74.00	-18.14	110	0	Peak

802.11n HT40 Mode

Low channel

Horizontal

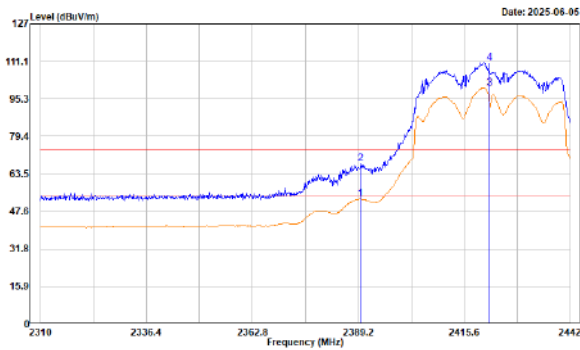
Description: N40-TX-2422,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:200Hz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2389.728	57.03	-10.82	46.21	54.00	-7.79	103	348	Average
2389.728	71.02	-10.82	60.20	74.00	-13.80	103	348	Peak
2422.000	104.41	-10.73	93.68			103	348	Average
2422.000	114.48	-10.73	103.75			103	348	Peak

Vertical

Description: N40-TX-2422,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:200Hz

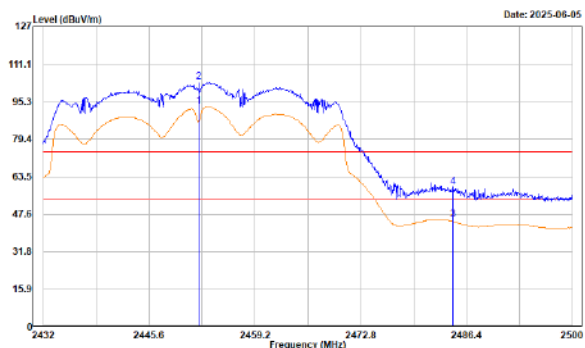


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2389.728	63.73	-10.82	52.91	54.00	-1.09	106	172	Average
2389.728	78.63	-10.82	67.81	74.00	-6.19	106	172	Peak
2422.000	110.49	-10.73	99.76			106	172	Average
2422.000	121.14	-10.73	110.41			106	172	Peak

High channel

Horizontal

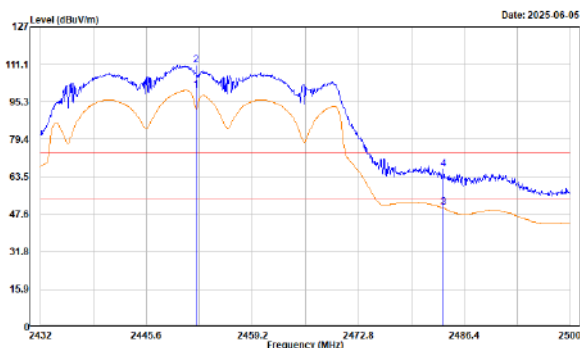
Description: N40-TX-2452,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:200Hz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2452.000	103.83	-10.59	93.24			145	351	Average
2452.000	114.07	-10.59	103.48			145	351	Peak
2484.632	56.01	-10.57	45.44	54.00	-8.56	145	351	Average
2484.632	69.82	-10.57	59.25	74.00	-14.75	145	351	Peak

Vertical

Description: N40-TX-2452,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:200Hz



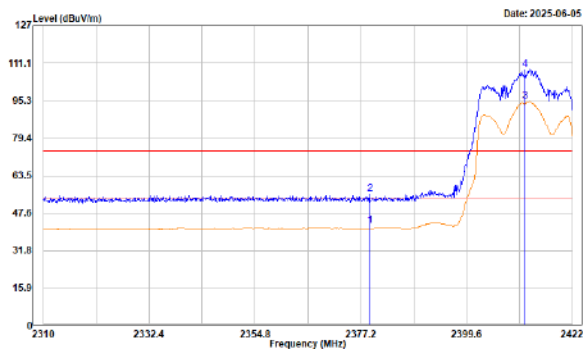
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2452.000	110.61	-10.59	100.02			159	0	Average
2452.000	121.34	-10.59	110.75			159	0	Peak
2483.748	61.25	-10.57	50.68	54.00	-3.32	159	0	Average
2483.748	77.37	-10.57	66.80	74.00	-7.20	159	0	Peak

802.11ax HE20 Mode

Low channel

Horizontal

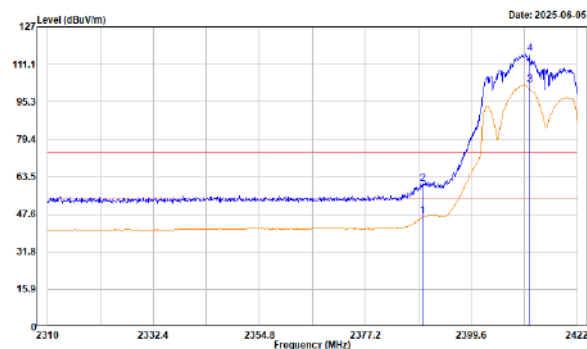
Description: AX20-TX-2412,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:200Hz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2379.104	53.04	-10.81	42.23	54.00	-11.77	154	350	Average
2379.104	66.44	-10.81	55.63	74.00	-18.37	154	350	Peak
2412.000	105.69	-10.78	94.91			154	350	Average
2412.000	119.23	-10.78	108.45			154	350	Peak

Vertical

Description: AX20-TX-2412,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:200Hz

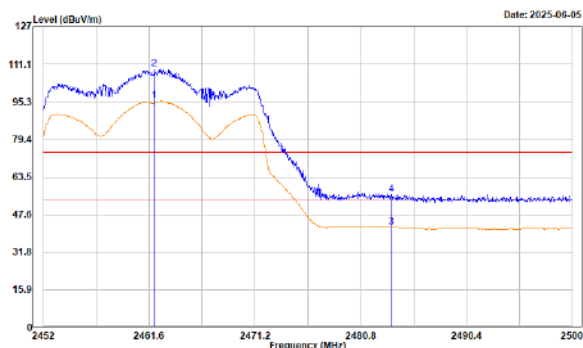


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2389.296	57.62	-10.82	46.80	54.00	-7.20	190	0	Average
2389.296	71.49	-10.82	60.67	74.00	-13.33	190	0	Peak
2412.000	113.21	-10.78	102.43			190	0	Average
2412.000	126.50	-10.78	115.72			190	0	Peak

High channel

Horizontal

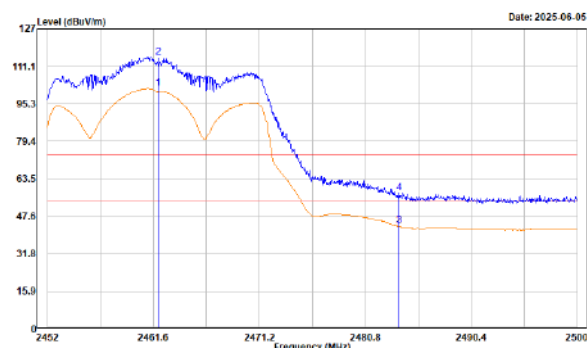
Description: AX20-TX-2462,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:200Hz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2462.000	106.14	-10.59	95.55			148	349	Average
2462.000	119.82	-10.59	109.23			148	349	Peak
2483.584	52.94	-10.57	42.37	54.00	-11.63	148	349	Average
2483.584	66.65	-10.57	56.08	74.00	-17.92	148	349	Peak

Vertical

Description: AX20-TX-2462,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:200Hz



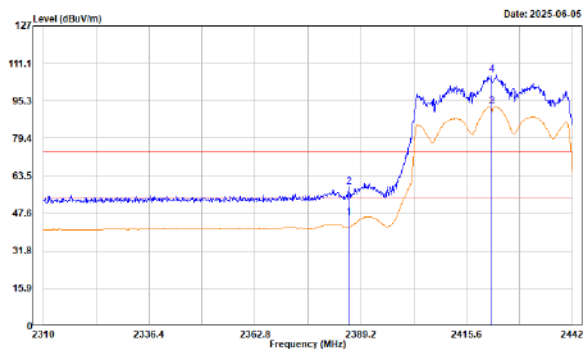
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2462.000	112.36	-10.59	101.77			111	1	Average
2462.000	125.59	-10.59	115.00			111	1	Peak
2483.872	54.39	-10.57	43.82	54.00	-10.18	111	1	Average
2483.872	68.02	-10.57	57.45	74.00	-16.55	111	1	Peak

802.11ax HE40 Mode

Low channel

Horizontal

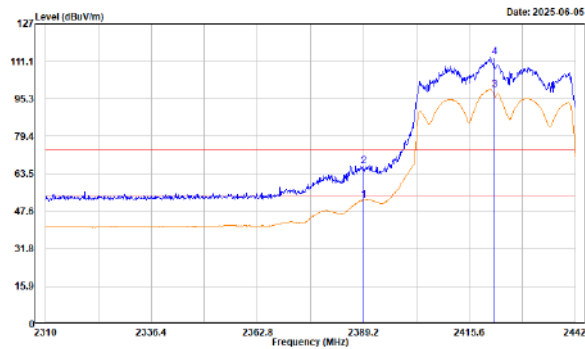
Description: AX40-TX-2422,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:200Hz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2386.164	56.60	-10.81	45.79	54.00	-8.21	100	350	Average
2386.164	69.83	-10.81	59.02	74.00	-14.98	100	350	Peak
2422.000	103.78	-10.73	93.05			100	350	Average
2422.000	117.18	-10.73	106.45			100	350	Peak

Vertical

Description: AX40-TX-2422,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:200Hz

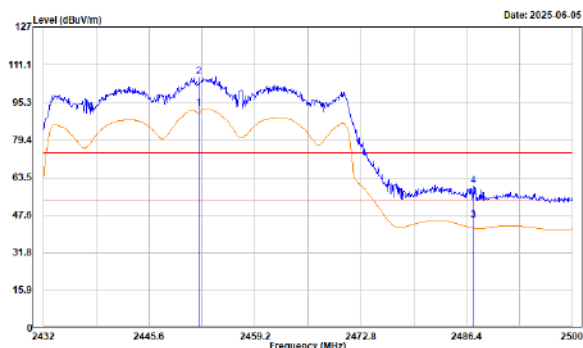


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2389.332	63.29	-10.82	52.47	54.00	-1.53	102	176	Average
2389.332	77.70	-10.82	66.88	74.00	-7.12	102	176	Peak
2422.000	109.98	-10.73	99.25			102	176	Average
2422.000	123.47	-10.73	112.74			102	176	Peak

High channel

Horizontal

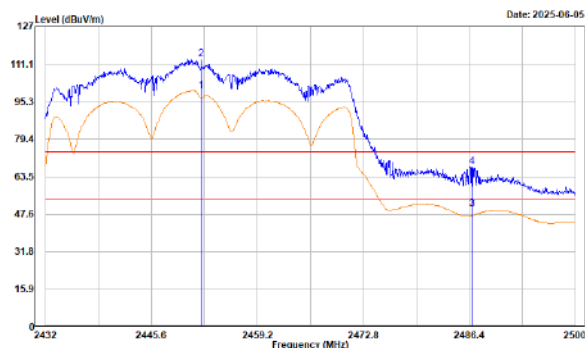
Description: AX40-TX-2452,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:200Hz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2452.000	103.32	-10.59	92.73			141	351	Average
2452.000	116.48	-10.59	105.89			141	351	Peak
2487.284	55.84	-10.57	45.27	54.00	-8.73	141	351	Average
2487.284	70.43	-10.57	59.86	74.00	-14.14	141	351	Peak

Vertical

Description: AX40-TX-2452,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:200Hz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2452.000	110.34	-10.59	99.75			125	0	Average
2452.000	123.75	-10.59	113.16			125	0	Peak
2486.740	60.38	-10.57	49.81	54.00	-4.19	125	0	Average
2486.740	78.45	-10.57	67.88	74.00	-6.12	125	0	Peak

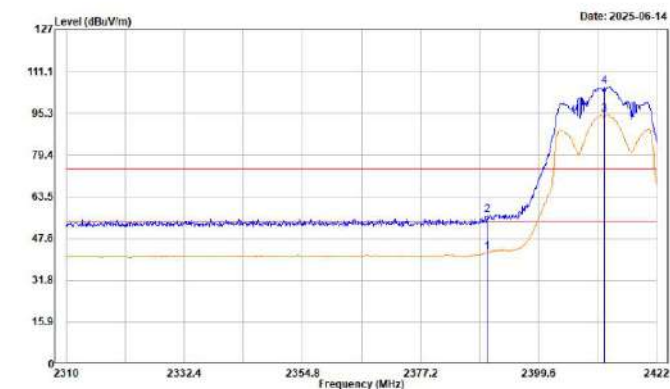
Beamforming

802.11n HT20 Mode

Low channel

Horizontal

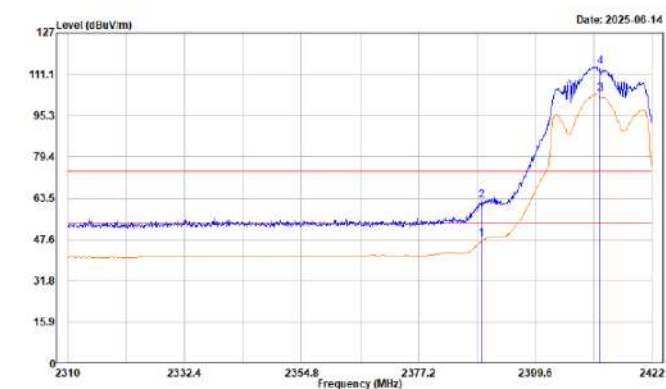
Description: N20-TX-2412, Peak RBW:1MHz/VBW:3MHz, Avg RBW:1MHz/VBW:200Hz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2389.856	53.05	-10.82	42.23	54.00	-11.77	145	84	Average
2389.856	67.23	-10.82	56.41	74.00	-17.59	145	84	Peak
2412.000	105.52	-10.78	94.74	145	84	145	84	Average
2412.000	116.17	-10.78	105.39	145	84	145	84	Peak

Vertical

Description: N20-TX-2412, Peak RBW:1MHz/VBW:3MHz, Avg RBW:1MHz/VBW:200Hz

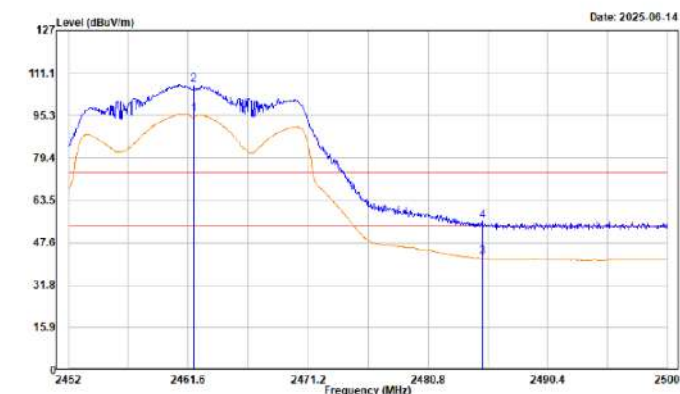


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2389.296	58.82	-10.82	48.00	54.00	-6.00	135	0	Average
2389.296	73.44	-10.82	62.62	74.00	-11.38	135	0	Peak
2412.000	114.25	-10.78	103.47	135	0	135	0	Average
2412.000	124.87	-10.78	114.09	135	0	135	0	Peak

High channel

Horizontal

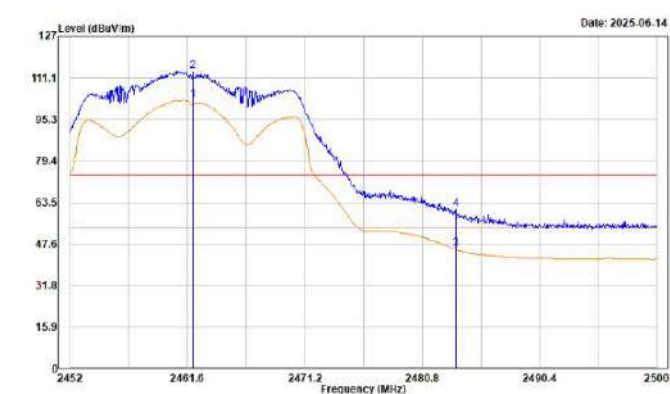
Description: N20-TX-2462, Peak RBW:1MHz/VBW:3MHz, Avg RBW:1MHz/VBW:200Hz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2462.000	106.44	-10.59	95.85	103	77	103	77	Average
2462.000	117.33	-10.59	106.74	103	77	103	77	Peak
2485.168	53.06	-10.57	42.49	54.00	-11.51	103	77	Average
2485.168	66.42	-10.57	55.85	74.00	-18.15	103	77	Peak

Vertical

Description: N20-TX-2462, Peak RBW:1MHz/VBW:3MHz, Avg RBW:1MHz/VBW:200Hz



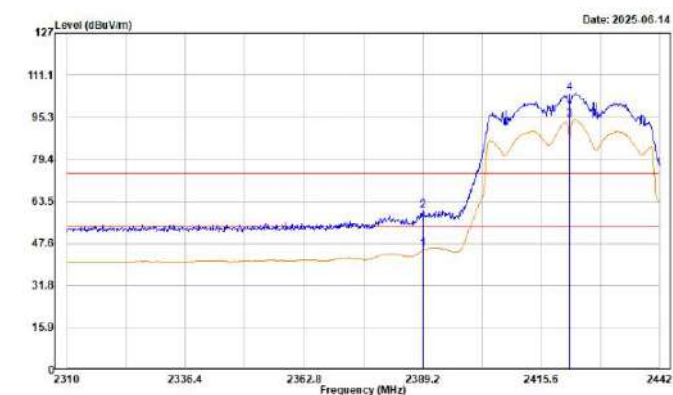
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2462.000	113.05	-10.59	102.46	117	7	117	7	Average
2462.000	124.08	-10.59	113.49	117	7	117	7	Peak
2483.536	56.27	-10.57	45.70	54.00	-8.30	117	7	Average
2483.536	71.56	-10.57	60.99	74.00	-13.01	117	7	Peak

802.11n HT40 Mode

Low channel

Horizontal

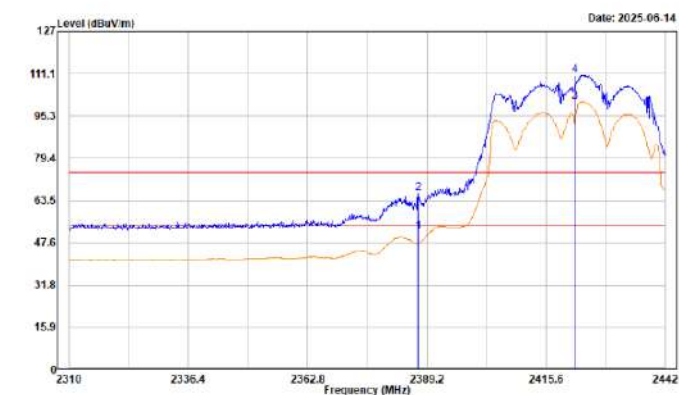
Description: N40-TX-2422, Peak RBW:1MHz/VBW:3MHz, Avg RBW:1MHz/VBW:200Hz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2389.200	56.11	-10.82	45.29	54.00	-8.71	146	345	Average
2389.200	70.64	-10.82	59.82	74.00	-14.18	146	345	Peak
2422.000	105.01	-10.73	94.28			146	345	Average
2422.000	114.87	-10.73	104.14			146	345	Peak

Vertical

Description: N40-TX-2422, Peak RBW:1MHz/VBW:3MHz, Avg RBW:1MHz/VBW:200Hz

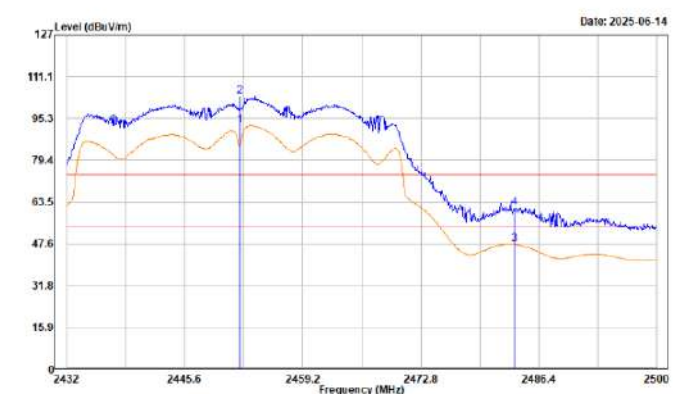


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2387.352	62.60	-10.81	51.79	54.00	-2.21	128	333	Average
2387.352	77.01	-10.81	66.20	74.00	-7.80	128	333	Peak
2422.000	111.24	-10.73	100.51			128	333	Average
2422.000	121.33	-10.73	110.60			128	333	Peak

High channel

Horizontal

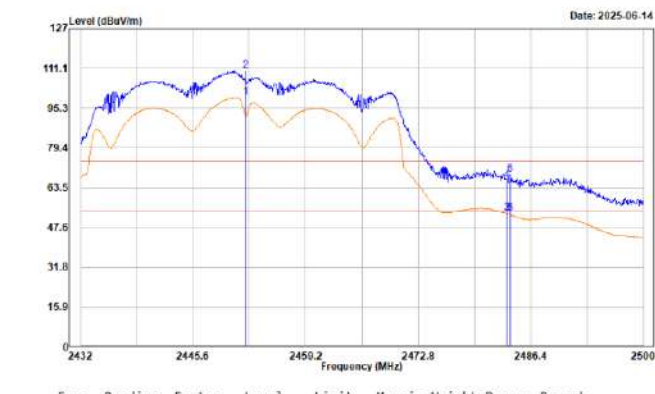
Description: N40-TX-2452, Peak RBW:1MHz/VBW:3MHz, Avg RBW:1MHz/VBW:200Hz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2452.000	103.11	-10.59	92.52			143	321	Average
2452.000	114.14	-10.59	103.55			143	321	Peak
2483.612	58.05	-10.57	47.48	54.00	-6.52	143	321	Average
2483.612	71.91	-10.57	61.34	74.00	-12.66	143	321	Peak

Vertical

Description: N40-TX-2452, Peak RBW:1MHz/VBW:3MHz, Avg RBW:1MHz/VBW:200Hz

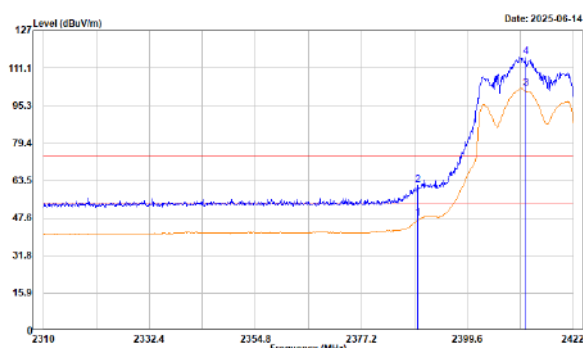


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2452.000	110.03	-10.59	99.44			125	7	Average
2452.000	120.69	-10.59	110.10			125	7	Peak
2483.500	63.94	-10.57	53.37	54.00	-0.63	125	7	Average
2483.500	76.97	-10.57	66.40	74.00	-7.60	125	7	Peak
2483.952	63.86	-10.57	53.29	54.00	-0.71	125	7	Average
2483.952	79.38	-10.57	68.81	74.00	-5.19	125	7	Peak

Low channel

Vertical

Description: AX20-TX-2412, Peak RBW:1MHz/VBW:3MHz, Avg RBW:1MHz/VBW:200Hz

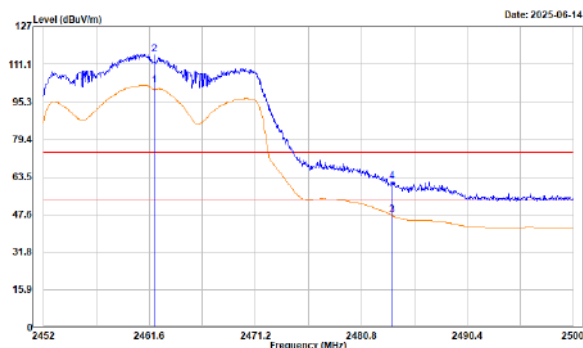


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2389.184	58.43	-10.82	47.61	54.00	-6.39	136	1	Average
2389.184	72.41	-10.82	61.59	74.00	-12.41	136	1	Peak
2412.000	113.23	-10.78	102.45			136	1	Average
2412.000	126.65	-10.78	115.87			136	1	Peak

Horizontal

Vertical

Description: AX20-TX-2462, Peak RBW: 1MHz/VBW: 3MHz, Avg RBW: 1MHz/VBW: 200Hz



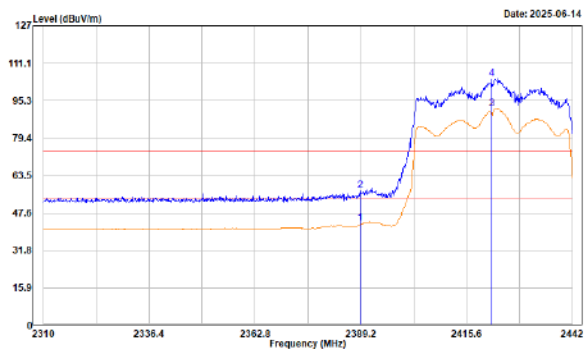
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2462.000	112.96	-10.59	102.37			115	5	Average
2462.000	125.85	-10.59	115.26			115	5	Peak
2483.536	58.04	-10.57	47.47	54.00	-6.53	115	5	Average
2483.536	72.07	-10.57	61.50	74.00	-12.50	115	5	Peak

802.11ax HE40 Mode

Low channel

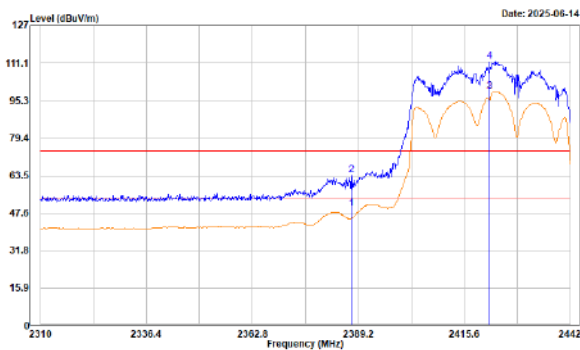
Horizontal

Description: AX40-TX-2422, Peak RBW:1MHz/VBW:3MHz, Avg RBW:1MHz/VBW:200Hz



Vertical

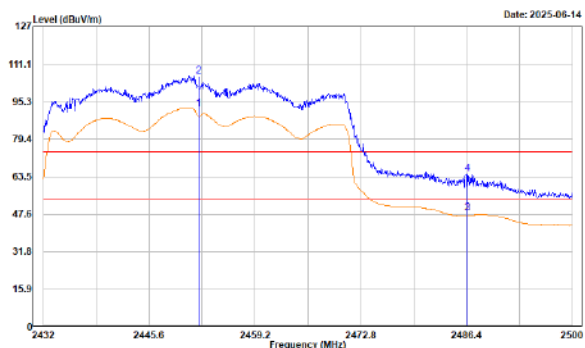
Description: AX40-TX-2422, Peak RBW:1MHz/VBW:3MHz, Avg RBW:1MHz/VBW:200Hz



High channel

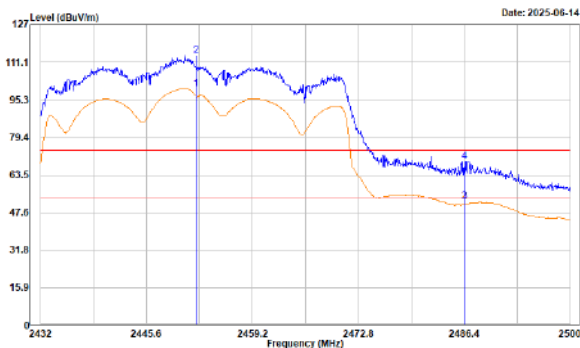
Horizontal

Description: AX40-TX-2452, Peak RBW:1MHz/VBW:3MHz, Avg RBW:1MHz/VBW:200Hz



Vertical

Description: AX40-TX-2452, Peak RBW:1MHz/VBW:3MHz, Avg RBW:1MHz/VBW:200Hz

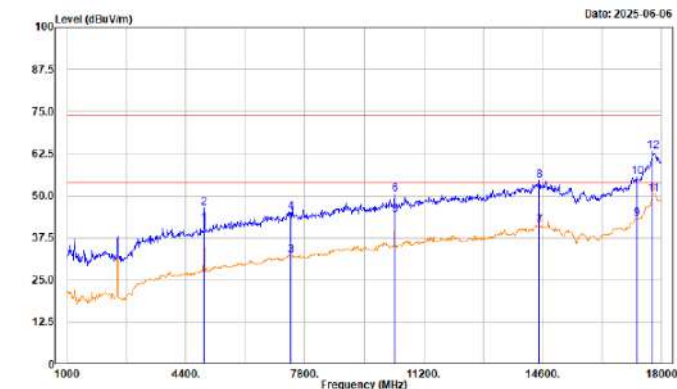


1GHz-18GHz:**Non Beamforming**

(Worst case is 802.11b mode high channel)

Horizontal

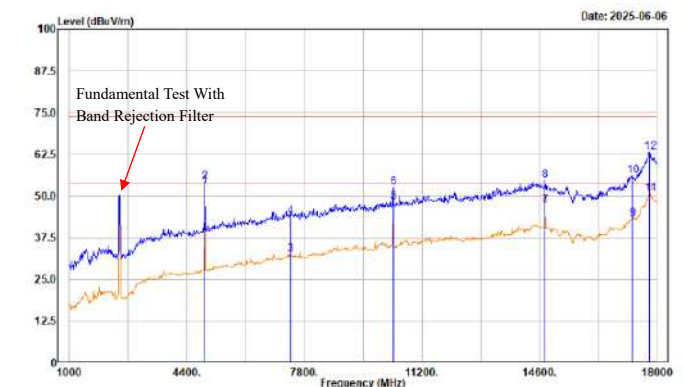
Description: B-TX-2462, Peak RBW:1MHz/VBW:3MHz, Avg RBW:1MHz/VBW:1kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4924.000	45.00	-4.08	41.72	54.00	-12.28	107	98	Average
4924.000	50.41	-4.08	46.33	74.00	-27.67	107	98	Peak
7386.000	31.23	1.02	32.25	54.00	-21.75	149	116	Average
7386.000	43.87	1.02	44.89	74.00	-29.11	149	116	Peak
10367.000	38.54	5.67	44.21	54.00	-9.79	150	224	Average
10367.000	44.73	5.67	50.40	74.00	-23.60	150	224	Peak
14498.000	30.17	11.13	41.30	54.00	-12.70	150	130	Average
14498.000	43.25	11.13	54.38	74.00	-19.62	150	130	Peak
17286.000	29.87	13.14	43.01	54.00	-10.99	150	248	Average
17286.000	42.29	13.14	55.43	74.00	-18.57	150	248	Peak
17745.000	32.52	17.81	50.33	54.00	-3.67	150	336	Average
17745.000	45.29	17.81	63.10	74.00	-10.90	150	336	Peak

Vertical

Description: B-TX-2462, Peak RBW:1MHz/VBW:3MHz, Avg RBW:1MHz/VBW:1kHz

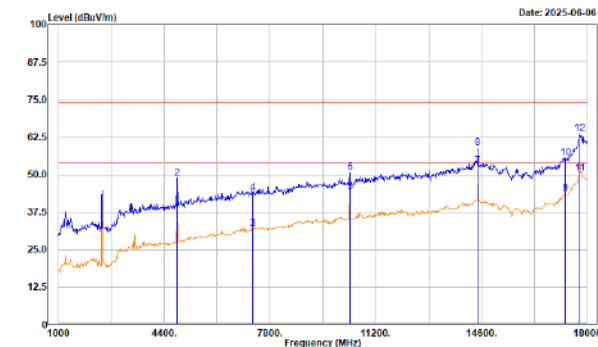


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4924.000	57.17	-4.08	53.09	54.00	-0.91	114	353	Average
4924.000	58.36	-4.08	54.28	74.00	-19.72	114	353	Peak
7386.000	31.46	1.02	32.48	54.00	-21.52	157	229	Average
7386.000	42.78	1.02	43.80	74.00	-30.20	157	229	Peak
10367.000	42.67	5.67	48.34	54.00	-5.66	150	100	Average
10367.000	46.84	5.67	52.51	74.00	-21.49	150	100	Peak
14779.000	36.46	10.62	47.08	54.00	-6.92	150	319	Average
14779.000	44.16	10.62	54.78	74.00	-19.22	150	319	Peak
17286.000	30.08	13.14	43.22	54.00	-10.78	150	23	Average
17286.000	43.07	13.14	56.21	74.00	-17.79	150	23	Peak
17796.000	32.53	18.11	50.64	54.00	-3.36	150	151	Average
17796.000	45.03	18.11	63.14	74.00	-10.86	150	151	Peak

(802.11g mode worst case is low channel)

Horizontal

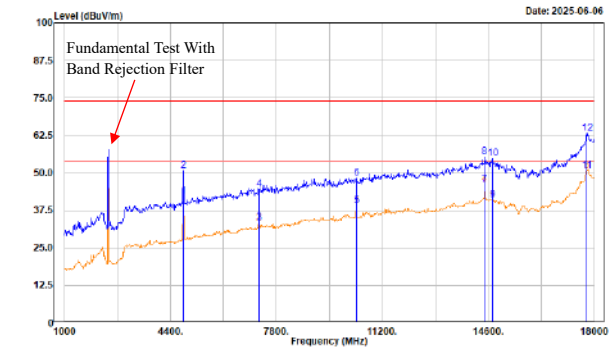
Description: G-TX-2412, Peak RBW:1MHz/VBW:3MHz, Avg RBW:1MHz/VBW:1kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4824.000	44.16	-4.44	39.72	54.00	-14.28	102	41	Average
4824.000	53.29	-4.44	48.85	74.00	-25.15	102	41	Peak
7236.000	31.20	0.65	31.85	54.00	-22.15	151	352	Average
7236.000	43.34	0.65	43.99	74.00	-30.01	151	352	Peak
10367.000	38.48	5.67	44.15	54.00	-9.85	150	74	Average
10367.000	45.12	5.67	50.79	74.00	-23.21	150	74	Peak
14481.000	41.82	11.09	52.91	54.00	-1.09	150	228	Average
14481.000	47.84	11.09	58.93	74.00	-15.07	150	228	Peak
17286.000	30.42	13.14	43.56	54.00	-10.44	150	167	Average
17286.000	42.41	13.14	55.55	74.00	-18.45	150	167	Peak
17745.000	32.70	17.81	50.51	54.00	-3.49	150	25	Average
17745.000	45.86	17.81	63.67	74.00	-10.33	150	25	Peak

Vertical

Description: G-TX-2412, Peak RBW:1MHz/VBW:3MHz, Avg RBW:1MHz/VBW:1kHz

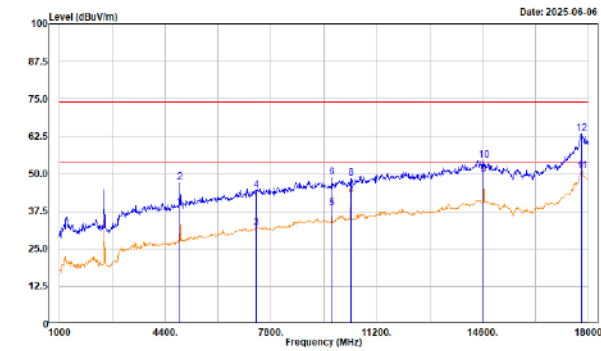


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4824.000	46.62	-4.44	42.18	54.00	-11.82	147	354	Average
4824.000	55.05	-4.44	50.61	74.00	-23.39	147	354	Peak
7236.000	32.81	0.65	33.46	54.00	-20.54	134	142	Average
7236.000	43.70	0.65	44.35	74.00	-29.65	134	142	Peak
10367.000	33.30	5.67	38.97	54.00	-15.03	150	338	Average
10367.000	42.64	5.67	48.31	74.00	-25.69	150	338	Peak
14481.000	34.92	11.09	46.01	54.00	-7.99	150	216	Average
14481.000	44.29	11.09	55.38	74.00	-18.62	150	216	Peak
17286.000	30.17	10.72	40.89	54.00	-13.11	150	208	Average
17286.000	44.08	10.72	54.80	74.00	-19.20	150	208	Peak
17762.000	32.83	17.91	50.74	54.00	-3.26	150	119	Average
17762.000	45.25	17.91	63.16	74.00	-10.84	150	119	Peak

(802.11n HT20 mode worst case is middle channel)

Horizontal

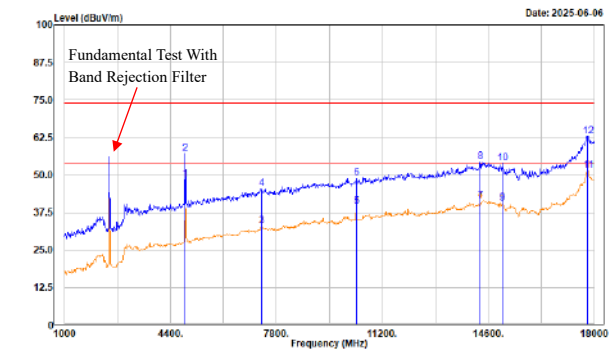
Description: N20-TX-2437, Peak RBW:1MHz/VBW:3MHz, Avg RBW:1MHz/VBW:1kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4874.000	42.87	-4.19	38.68	54.00	-15.32	104	40	Average
4874.000	51.45	-4.19	47.26	74.00	-26.74	104	40	Peak
7311.000	31.12	0.89	32.01	54.00	-21.99	151	238	Average
7311.000	43.59	0.89	44.48	74.00	-29.52	151	238	Peak
9755.000	34.00	4.59	38.59	54.00	-15.41	150	261	Average
9755.000	44.16	4.59	48.75	74.00	-25.25	150	261	Peak
10367.000	37.27	5.67	42.94	54.00	-11.06	150	28	Average
10367.000	42.74	5.67	48.41	74.00	-25.59	150	28	Peak
14634.000	38.50	11.05	49.55	54.00	-4.45	150	117	Average
14634.000	43.51	11.05	54.56	74.00	-19.44	150	117	Peak
17779.000	32.91	18.01	50.92	54.00	-3.08	150	349	Average
17779.000	45.30	18.01	63.31	74.00	-10.69	150	349	Peak

Vertical

Description: N20-TX-2437, Peak RBW:1MHz/VBW:3MHz, Avg RBW:1MHz/VBW:1kHz

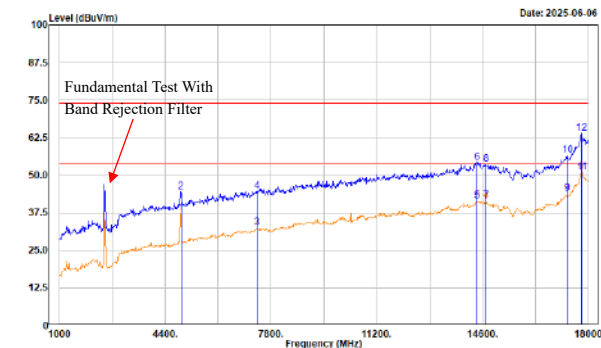


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4874.000	52.73	-4.19	48.54	54.00	-5.46	106	250	Average
4874.000	61.43	-4.19	57.24	74.00	-16.76	106	250	Peak
7311.000	32.13	0.89	33.02	54.00	-20.98	140	339	Average
7311.000	44.64	0.89	45.53	74.00	-28.47	140	339	Peak
10367.000	33.84	5.67	39.51	54.00	-14.49	150	205	Average
10367.000	43.31	5.67	48.98	74.00	-25.02	150	205	Peak
14345.000	30.52	10.86	41.38	54.00	-12.62	150	119	Average
14345.000	43.56	10.86	54.42	74.00	-19.58	150	119	Peak
15042.000	31.09	9.43	40.52	54.00	-13.48	150	358	Average
15042.000	44.42	9.43	53.85	74.00	-20.15	150	358	Peak
17796.000	33.40	18.11	51.51	54.00	-2.49	150	62	Average
17796.000	44.84	18.11	62.95	74.00	-11.05	150	62	Peak

(802.11n HT40 mode worst case is high channel)

Horizontal

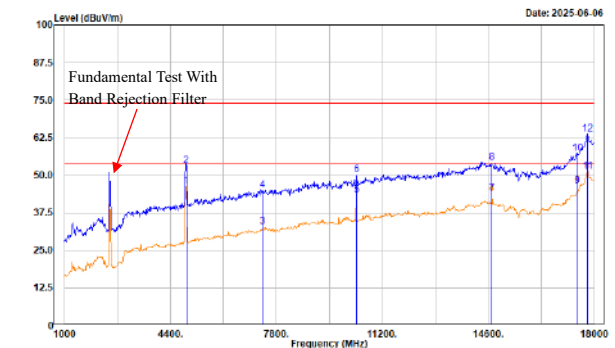
Description: N40-TX-2452, Peak RBW:1MHz/VBW:3MHz, Avg RBW:1MHz/VBW:1kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4904.000	41.20	-4.11	37.09	54.00	-16.91	136	145	Average
4904.000	48.65	-4.11	44.54	74.00	-29.46	136	145	Peak
7356.000	31.35	1.06	32.41	54.00	-21.59	158	205	Average
7356.000	43.68	1.06	44.74	74.00	-29.26	158	205	Peak
14413.000	30.41	10.96	41.37	54.00	-12.63	150	316	Average
14413.000	43.30	10.96	54.26	74.00	-19.74	150	316	Peak
14702.000	30.64	10.82	41.46	54.00	-12.54	150	28	Average
14702.000	42.93	10.82	53.75	74.00	-20.25	150	28	Peak
17320.000	30.60	13.38	43.98	54.00	-10.02	150	99	Average
17320.000	43.35	13.38	56.73	74.00	-17.27	150	99	Peak
17779.000	32.96	18.01	50.97	54.00	-3.03	150	146	Average
17779.000	45.84	18.01	63.85	74.00	-10.15	150	146	Peak

Vertical

Description: N40-TX-2452, Peak RBW:1MHz/VBW:3MHz, Avg RBW:1MHz/VBW:1kHz

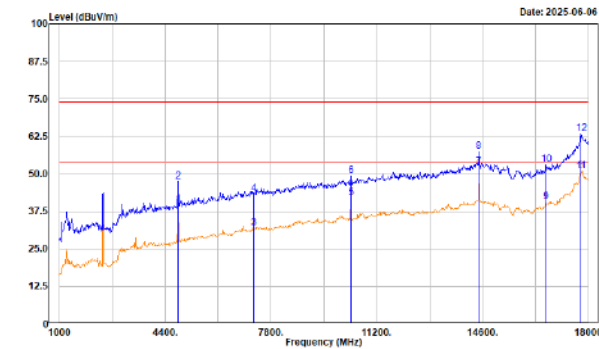


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4904.000	50.38	-4.11	46.27	54.00	-7.73	106	62	Average
4904.000	57.35	-4.11	53.24	74.00	-20.76	106	62	Peak
7356.000	31.62	1.06	32.68	54.00	-21.32	151	315	Average
7356.000	44.05	1.06	45.11	74.00	-28.89	151	315	Peak
10367.000	37.60	5.67	43.27	54.00	-10.73	150	159	Average
10367.000	44.33	5.67	50.00	74.00	-24.00	150	159	Peak
14719.000	33.22	10.78	44.00	54.00	-10.00	150	316	Average
14719.000	43.49	10.78	54.27	74.00	-19.73	150	316	Peak
17456.000	31.96	14.51	46.47	54.00	-7.53	150	220	Average
17456.000	42.77	14.51	57.28	74.00	-16.72	150	220	Peak
17779.000	33.15	18.01	51.16	54.00	-2.84	150	2	Average
17779.000	45.55	18.01	63.56	74.00	-10.44	150	2	Peak

(802.11ax HE20 mode worst case is low channel)

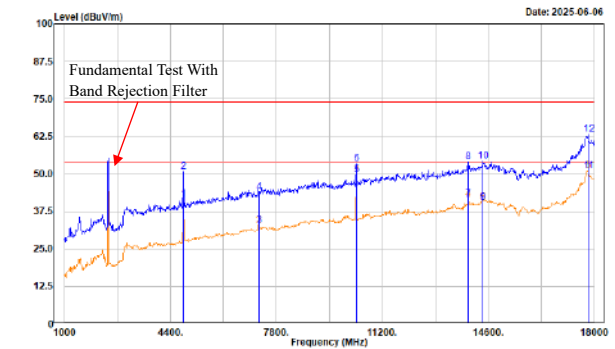
Horizontal

Description: AX20-TX-2412, Peak RBW:1MHz/VBW:3MHz, Avg RBW:1MHz/VBW:1kHz



Vertical

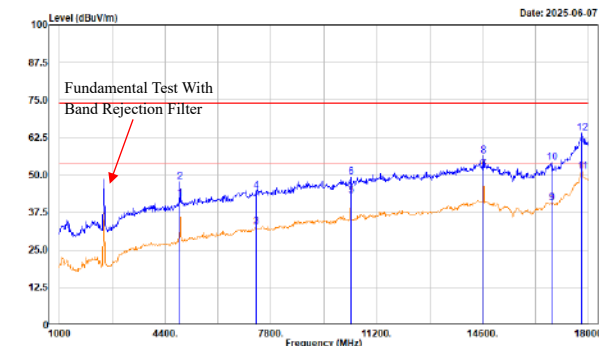
Description: AX20-TX-2412, Peak RBW:1MHz/VBW:3MHz, Avg RBW:1MHz/VBW:1kHz



(802.11ax HE40 mode worst case is middle channel)

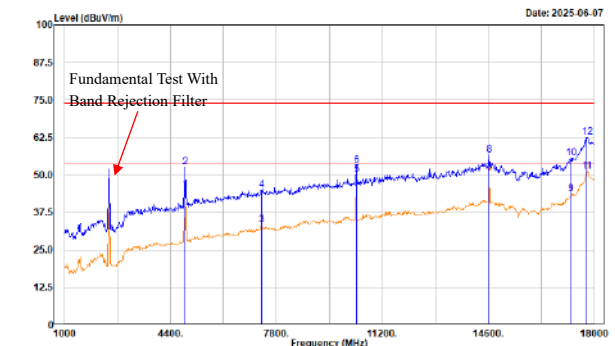
Horizontal

Description: AX40-TX-2437, Peak RBW:1MHz/VBW:3MHz, Avg RBW:1MHz/VBW:1kHz



Vertical

Description: AX40-TX-2437, Peak RBW:1MHz/VBW:3MHz, Avg RBW:1MHz/VBW:1kHz



Level = Reading + Factor.

Margin = Level - Limit.

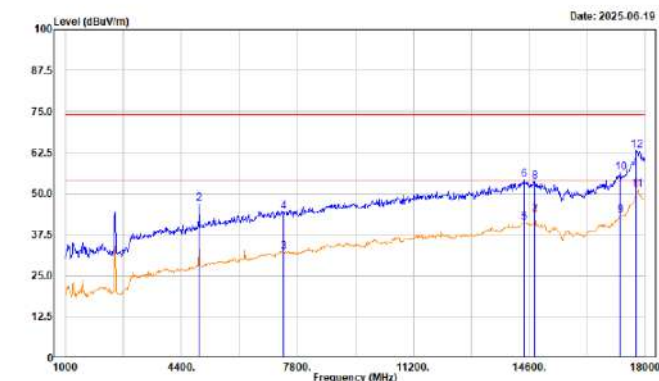
Factor = Antenna Factor + Cable Loss - Amplifier Gain.

Beamforming

(802.11n HT20 mode worst case is high channel)

Horizontal

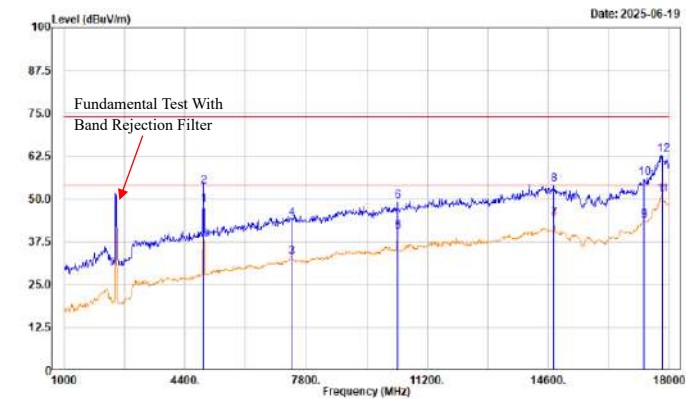
Description: N20-TX-2462, Peak RBW:1MHz/VBW:3MHz, Avg RBW:1MHz/VBW:1kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4924.000	42.49	-4.08	38.41	54.00	-15.59	124	76	Average
4924.000	50.87	-4.08	46.79	74.00	-27.21	124	76	Peak
7386.000	31.11	1.02	32.13	54.00	-21.87	144	2	Average
7386.000	43.39	1.02	44.41	74.00	-29.59	144	2	Peak
14447.000	30.25	11.02	41.27	54.00	-12.73	150	146	Average
14447.000	43.14	11.02	54.16	74.00	-19.84	150	146	Peak
14770.000	32.86	10.62	43.48	54.00	-10.52	150	250	Average
14770.000	43.07	10.62	53.69	74.00	-20.31	150	250	Peak
17269.000	30.53	12.95	43.48	54.00	-10.52	150	320	Average
17269.000	43.41	12.95	56.36	74.00	-17.64	150	320	Peak
17745.000	33.38	17.81	51.19	54.00	-2.81	150	114	Average
17745.000	45.28	17.81	63.09	74.00	-10.91	150	114	Peak

Vertical

Description: N20-TX-2462, Peak RBW:1MHz/VBW:3MHz, Avg RBW:1MHz/VBW:1kHz

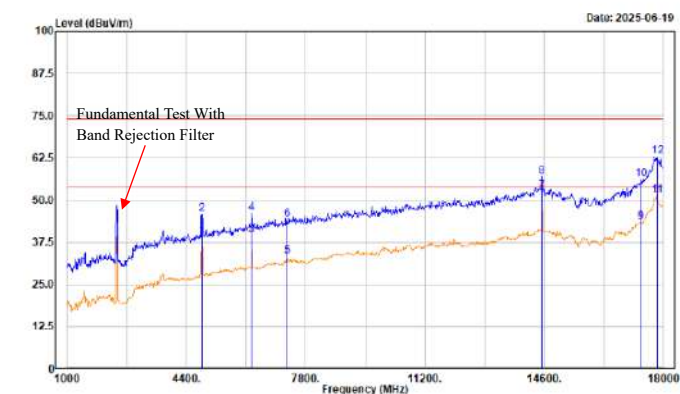


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4924.000	52.37	-4.08	48.29	54.00	-5.71	105	285	Average
4924.000	57.71	-4.08	53.63	74.00	-20.37	105	285	Peak
7386.000	31.93	1.02	32.95	54.00	-21.05	152	322	Average
7386.000	43.16	1.02	44.18	74.00	-29.82	152	322	Peak
10367.000	34.74	5.67	40.41	54.00	-13.59	150	144	Average
10367.000	43.73	5.67	49.40	74.00	-24.60	150	144	Peak
14770.000	33.42	10.62	44.04	54.00	-9.96	150	206	Average
14770.000	43.51	10.62	54.13	74.00	-19.87	150	206	Peak
17303.000	30.27	13.30	43.57	54.00	-10.43	150	325	Average
17303.000	42.91	13.30	56.21	74.00	-17.79	150	325	Peak
17813.000	32.98	18.16	51.14	54.00	-2.86	150	11	Average
17813.000	44.60	18.16	62.76	74.00	-11.24	150	11	Peak

(802.11n HT40 mode worst case is low channel)

Horizontal

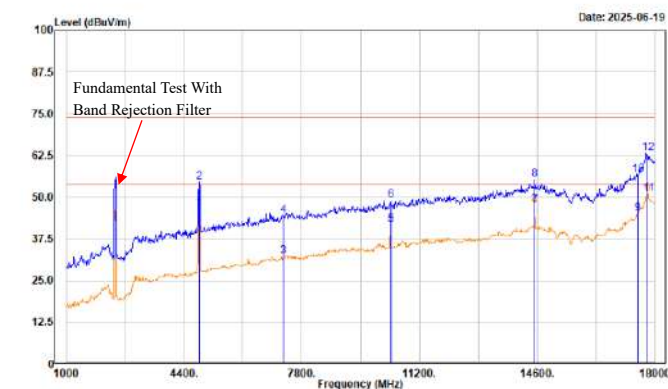
Description: N40-TX-2422, Peak RBW:1MHz/VBW:3MHz, Avg RBW:1MHz/VBW:1kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4844.000	43.34	-4.31	39.03	54.00	-14.97	109	40	Average
4844.000	50.05	-4.31	45.74	74.00	-28.26	109	40	Peak
6253.000	41.56	-2.02	39.54	54.00	-14.46	150	118	Average
6253.000	48.12	-2.02	46.10	74.00	-27.90	150	118	Peak
7266.000	32.46	0.76	33.22	54.00	-20.78	145	323	Average
7266.000	43.49	0.76	44.25	74.00	-29.75	145	323	Peak
14532.000	41.47	11.14	52.61	54.00	-1.39	150	205	Average
14532.000	45.90	11.14	57.04	74.00	-16.96	150	205	Peak
17337.000	29.92	13.46	43.38	54.00	-10.62	150	46	Average
17337.000	42.56	13.46	56.02	74.00	-17.98	150	46	Peak
17813.000	33.09	18.16	51.25	54.00	-2.75	150	118	Average
17813.000	44.73	18.16	62.89	74.00	-11.11	150	118	Peak

Vertical

Description: N40-TX-2422, Peak RBW:1MHz/VBW:3MHz, Avg RBW:1MHz/VBW:1kHz

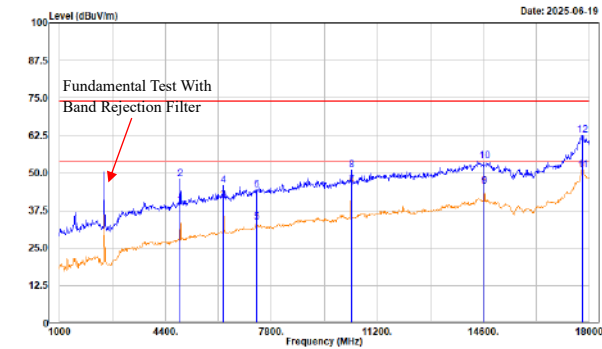


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4844.000	51.04	-4.31	46.73	54.00	-7.27	101	284	Average
4844.000	58.66	-4.31	54.35	74.00	-19.65	101	284	Peak
7266.000	31.46	0.76	32.22	54.00	-21.78	156	0	Average
7266.000	43.62	0.76	44.38	74.00	-29.62	156	0	Peak
10367.000	35.94	5.67	41.61	54.00	-12.39	150	22	Average
10367.000	43.38	5.67	49.05	74.00	-24.95	150	22	Peak
14532.000	36.24	11.14	47.38	54.00	-6.62	150	306	Average
14532.000	44.14	11.14	55.28	74.00	-18.72	150	306	Peak
17507.000	29.72	15.17	44.89	54.00	-9.11	150	154	Average
17507.000	41.39	15.17	56.56	74.00	-17.44	150	154	Peak
17796.000	32.95	18.11	51.06	54.00	-2.94	150	284	Average
17796.000	45.10	18.11	63.21	74.00	-10.79	150	284	Peak

(802.11ax HE20 mode worst case is middle channel)

Horizontal

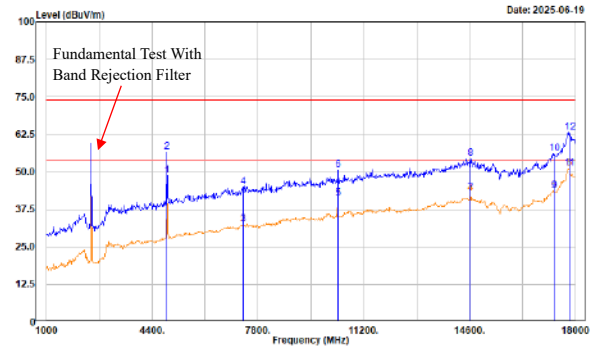
Description: AX20-TX-2437, Peak RBW: 1MHz/VBW: 3MHz, Avg RBW: 1MHz/VBW: 1kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4874.000	43.47	-4.19	39.28	54.00	-14.72	111	37	Average
4874.000	52.27	-4.19	48.08	74.00	-25.92	111	37	Peak
6253.000	43.00	-2.02	40.98	54.00	-13.02	150	320	Average
6253.000	47.79	-2.02	45.77	74.00	-28.23	150	320	Peak
7311.000	32.67	0.89	33.56	54.00	-20.44	143	227	Average
7311.000	43.62	0.89	44.51	74.00	-29.49	143	227	Peak
10367.000	40.28	5.67	45.95	54.00	-8.05	150	155	Average
10367.000	45.24	5.67	50.91	74.00	-23.09	150	155	Peak
14634.000	34.60	11.05	45.65	54.00	-8.35	150	93	Average
14634.000	42.75	11.05	53.80	74.00	-20.20	150	93	Peak
17779.000	32.98	18.01	50.99	54.00	-3.01	150	26	Average
17779.000	44.69	18.01	62.70	74.00	-11.30	150	26	Peak

Vertical

Description: AX20-TX-2437, Peak RBW: 1MHz/VBW: 3MHz, Avg RBW: 1MHz/VBW: 1kHz

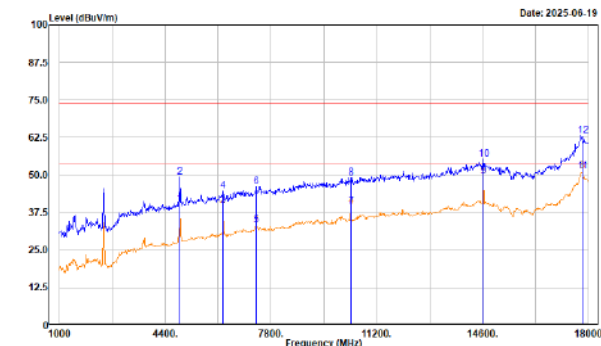


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4874.000	52.87	-4.19	48.68	54.00	-5.32	105	283	Average
4874.000	60.90	-4.19	56.71	74.00	-17.29	105	283	Peak
7311.000	31.68	0.89	32.57	54.00	-21.43	144	149	Average
7311.000	44.08	0.89	44.97	74.00	-29.03	144	149	Peak
10367.000	35.39	5.67	41.06	54.00	-12.94	150	326	Average
10367.000	45.07	5.67	50.74	74.00	-23.26	150	326	Peak
14634.000	31.89	11.05	42.94	54.00	-11.06	150	112	Average
14634.000	43.45	11.05	54.50	74.00	-19.50	150	112	Peak
17320.000	30.28	13.38	43.66	54.00	-10.34	150	360	Average
17320.000	42.72	13.38	56.10	74.00	-17.90	150	360	Peak
17813.000	33.13	18.16	51.29	54.00	-2.71	150	112	Average
17813.000	44.85	18.16	63.01	74.00	-10.99	150	112	Peak

(802.11ax HE40 mode worst case is middle channel)

Horizontal

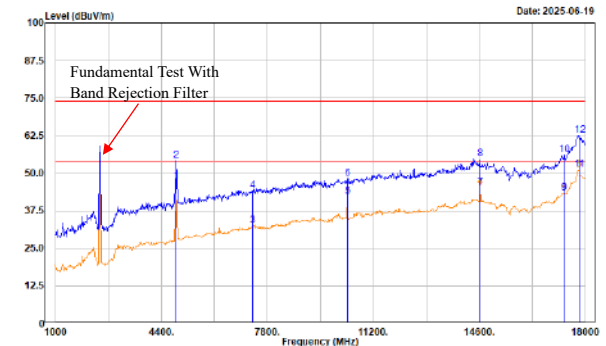
Description: AX40-TX-2437, Peak RBW: 1MHz/VBW: 3MHz, Avg RBW: 1MHz/VBW: 1kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4874.000	44.44	-4.19	40.25	54.00	-13.75	113	39	Average
4874.000	53.38	-4.19	49.19	74.00	-24.81	113	39	Peak
6253.000	41.75	-2.02	39.73	54.00	-14.27	150	317	Average
6253.000	46.75	-2.02	44.73	74.00	-29.27	150	317	Peak
7311.000	32.36	0.89	33.25	54.00	-20.75	142	283	Average
7311.000	45.06	0.89	45.95	74.00	-28.05	142	283	Peak
10367.000	33.86	5.67	39.53	54.00	-14.47	150	118	Average
10367.000	43.46	5.67	49.13	74.00	-24.87	150	118	Peak
14634.000	38.43	11.05	49.48	54.00	-4.52	150	29	Average
14634.000	44.14	11.05	55.19	74.00	-18.81	150	29	Peak
17813.000	32.99	18.16	51.15	54.00	-2.85	150	221	Average
17813.000	45.03	18.16	63.19	74.00	-10.81	150	221	Peak

Vertical

Description: AX40-TX-2437, Peak RBW: 1MHz/VBW: 3MHz, Avg RBW: 1MHz/VBW: 1kHz



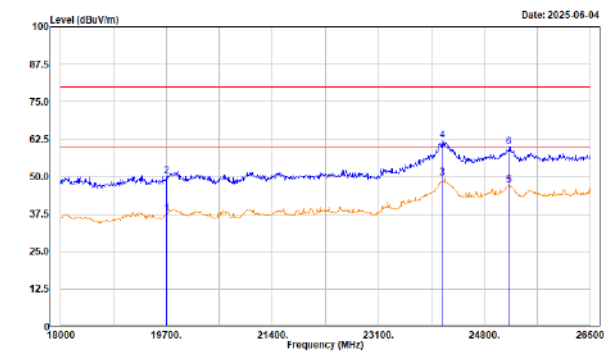
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4874.000	51.30	-4.19	47.11	54.00	-6.89	103	283	Average
4874.000	58.39	-4.19	54.20	74.00	-19.80	103	283	Peak
7311.000	31.63	0.89	32.52	54.00	-21.48	150	53	Average
7311.000	43.30	0.89	44.19	74.00	-29.81	150	53	Peak
10367.000	36.65	5.67	42.32	54.00	-11.68	150	329	Average
10367.000	42.61	5.67	48.28	74.00	-25.72	150	329	Peak
14634.000	34.31	11.05	45.36	54.00	-8.64	150	118	Average
14634.000	43.67	11.05	54.72	74.00	-19.28	150	118	Peak
17320.000	30.07	13.38	43.45	54.00	-10.55	150	241	Average
17320.000	42.70	13.38	56.08	74.00	-17.92	150	241	Peak
17813.000	33.16	18.16	51.32	54.00	-2.68	150	126	Average
17813.000	44.41	18.16	62.57	74.00	-11.43	150	126	Peak

18GHz-26.5GHz:**Non Beamforming**

(worst case is 802.11g mode high channel)

Horizontal

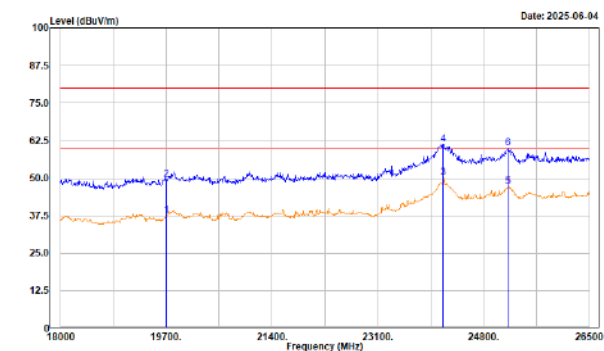
Description: G-TX-2462, Peak RBW:1MHz/VBW:3MHz, Avg RBW:1MHz/VBW:1kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
19696.000	38.85	-1.13	37.72	60.00	-22.28	153	206	Average
19696.000	51.22	-1.13	50.09	80.00	-29.91	153	206	Peak
24120.000	36.48	13.19	49.67	60.00	-10.33	154	118	Average
24120.000	48.84	13.19	62.03	80.00	-17.97	154	118	Peak
25199.500	36.61	10.46	47.07	60.00	-12.93	150	135	Average
25199.500	49.46	10.46	59.92	80.00	-20.08	150	135	Peak

Vertical

Description: G-TX-2462, Peak RBW:1MHz/VBW:3MHz, Avg RBW:1MHz/VBW:1kHz



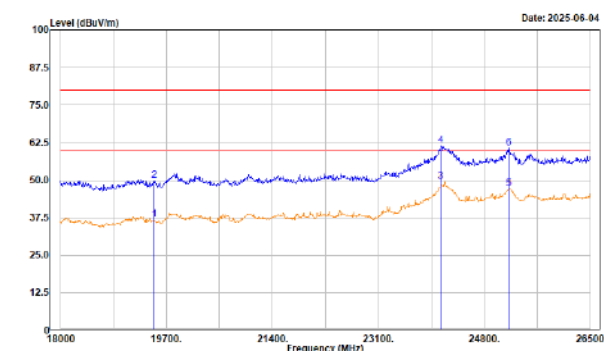
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
19696.000	38.53	-1.13	37.40	60.00	-22.60	144	52	Average
19696.000	50.71	-1.13	49.58	80.00	-30.42	144	52	Peak
24154.000	37.50	12.59	50.09	60.00	-9.91	159	305	Average
24154.000	48.69	12.59	61.28	80.00	-18.72	159	305	Peak
25199.500	36.64	10.46	47.10	60.00	-12.90	156	212	Average
25199.500	49.52	10.46	59.98	80.00	-20.02	156	212	Peak

Beamforming

(worst case is 802.11n HT40 mode middle channel)

Horizontal

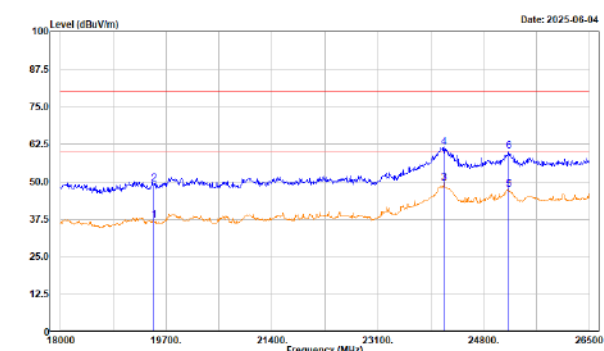
Description: N40-TX-2437, Peak RBW:1MHz/VBW:3MHz, Avg RBW:1MHz/VBW:1kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
19496.000	38.62	-1.81	36.81	60.00	-23.19	146	119	Average
19496.000	51.61	-1.81	49.80	80.00	-30.20	146	119	Peak
24103.000	36.19	13.50	49.69	60.00	-10.31	159	201	Average
24103.000	47.91	13.50	61.41	80.00	-18.59	159	201	Peak
25191.000	36.70	10.34	47.04	60.00	-12.96	152	131	Average
25191.000	50.35	10.34	60.69	80.00	-19.31	152	131	Peak

Vertical

Description: N40-TX-2437, Peak RBW:1MHz/VBW:3MHz, Avg RBW:1MHz/VBW:1kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
19496.000	39.07	-1.81	37.26	60.00	-22.74	146	144	Average
19496.000	51.26	-1.81	49.45	80.00	-30.55	146	144	Peak
24162.500	37.12	12.44	49.56	60.00	-10.44	148	209	Average
24162.500	49.08	12.44	61.52	80.00	-18.48	148	209	Peak
25208.000	37.09	10.39	47.48	60.00	-12.52	145	311	Average
25208.000	49.77	10.39	60.16	80.00	-19.84	145	311	Peak

Level = Reading + Factor.

Margin = Level - Limit.

Factor = Antenna Factor + Cable Loss - Amplifier Gain.

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

Conversion factor = $20 \log(1.5\text{m}/3\text{m}) = 6 \text{ dB}$,Average Limit = $54 + 6 = 60 \text{ dBuV/m}@1.5\text{m}$, Peak Limit = $60 + 20 = 80 \text{ dBuV/m}@1.5\text{m}$

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

Above 1GHz

Non Beamforming

802.11b Mode:

Low channel																	
Horizontal									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)	(°)		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4824.000	50.33	-4.44	45.89	54.00	-8.11	106	235	Average	4824.000	55.45	-4.44	51.01	54.00	-2.99	103	269	Average
4824.000	53.80	-4.44	49.36	74.00	-24.64	106	235	Peak	4824.000	58.72	-4.44	54.28	74.00	-19.72	103	269	Peak
7236.000	31.14	0.65	31.79	54.00	-22.21	151	206	Average	7236.000	31.05	0.65	31.70	54.00	-22.30	156	118	Average
7236.000	42.96	0.65	43.61	74.00	-30.39	151	206	Peak	7236.000	42.98	0.65	43.63	74.00	-30.37	156	118	Peak
14481.000	39.81	11.09	50.90	54.00	-3.10	150	143	Average	14515.000	29.91	11.13	41.04	54.00	-12.96	150	326	Average
14481.000	44.91	11.09	56.00	74.00	-18.00	150	143	Peak	14515.000	42.92	11.13	54.05	74.00	-19.95	150	326	Peak
14787.000	29.93	10.58	40.51	54.00	-13.49	150	205	Average	14770.000	29.96	10.62	40.58	54.00	-13.42	150	157	Average
14787.000	42.39	10.58	52.97	74.00	-21.03	150	205	Peak	14770.000	43.22	10.62	53.84	74.00	-20.16	150	157	Peak
17354.000	29.71	13.54	43.25	54.00	-10.75	150	229	Average	17303.000	30.08	13.30	43.38	54.00	-10.62	150	202	Average
17354.000	43.15	13.54	56.69	74.00	-17.31	150	229	Peak	17303.000	43.05	13.30	56.35	74.00	-17.65	150	202	Peak
17745.000	32.43	17.81	50.24	54.00	-3.76	150	63	Average	17745.000	32.42	17.81	50.23	54.00	-3.77	150	132	Average
17745.000	44.71	17.81	62.52	74.00	-11.48	150	63	Peak	17745.000	45.36	17.81	63.17	74.00	-10.83	150	132	Peak

Middle channel																	
Horizontal									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)	(°)		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4874.000	48.66	-4.19	44.47	54.00	-9.53	109	98	Average	4874.000	56.28	-4.19	52.09	54.00	-1.91	115	327	Average
4874.000	50.15	-4.19	45.96	74.00	-28.04	109	98	Peak	4874.000	57.17	-4.19	52.98	74.00	-21.02	115	327	Peak
7311.000	31.56	0.89	32.45	54.00	-21.55	142	316	Average	7311.000	31.53	0.89	32.42	54.00	-21.58	158	211	Average
7311.000	42.91	0.89	43.80	74.00	-30.20	142	316	Peak	7311.000	43.32	0.89	44.21	74.00	-29.79	158	211	Peak
10367.000	39.75	5.67	45.42	54.00	-8.58	150	205	Average	10367.000	44.45	5.67	50.12	54.00	-3.88	150	241	Average
10367.000	44.52	5.67	50.19	74.00	-23.81	150	205	Peak	10367.000	47.55	5.67	53.22	74.00	-20.78	150	241	Peak
14753.000	30.18	10.68	40.86	54.00	-13.14	150	137	Average	14634.000	37.11	11.05	48.16	54.00	-5.84	150	36	Average
14753.000	43.39	10.68	54.07	74.00	-19.93	150	137	Peak	14634.000	43.85	11.05	54.90	74.00	-19.10	150	36	Peak
17303.000	30.14	13.30	43.44	54.00	-10.56	150	44	Average	17286.000	30.25	13.14	43.39	54.00	-10.61	150	152	Average
17303.000	42.97	13.30	56.27	74.00	-17.73	150	44	Peak	17286.000	43.14	13.14	56.28	74.00	-17.72	150	152	Peak
17762.000	32.76	17.91	50.67	54.00	-3.33	150	205	Average	17762.000	32.75	17.91	50.66	54.00	-3.34	150	318	Average
17762.000	45.38	17.91	63.29	74.00	-10.71	150	205	Peak	17762.000	45.15	17.91	63.06	74.00	-10.94	150	318	Peak

High channel																	
Horizontal									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)	(°)		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4924.000	45.80	-4.08	41.72	54.00	-12.28	107	98	Average	4924.000	57.17	-4.08	53.09	54.00	-0.91	114	353	Average
4924.000	50.41	-4.08	46.33	74.00	-27.67	107	98	Peak	4924.000	58.36	-4.08	54.28	74.00	-19.72	114	353	Peak
7386.000	31.23	1.02	32.25	54.00	-21.75	149	116	Average	7386.000	31.46	1.02	32.48	54.00	-21.52	157	229	Average
7386.000	43.87	1.02	44.89	74.00	-29.11	149	116	Peak	7386.000	42.78	1.02	43.80	74.00	-30.20	157	229	Peak
10367.000	38.54	5.67	44.21	54.00	-9.79	150	224	Average	10367.000	42.67	5.67	48.34	54.00	-5.66	150	100	Average
10367.000	44.73	5.67	50.40	74.00	-23.60	150	224	Peak	10367.000	46.84	5.67	52.51	74.00	-21.49	150	100	Peak
14498.000	30.17	11.13	41.30	54.00	-12.70	150	130	Average	14770.000	36.46	10.62	47.08	54.00	-6.92	150	319	Average
14498.000	43.25	11.13	54.38	74.00	-19.62	150	130	Peak	14770.000	44.16	10.62	54.78	74.00	-19.22	150	319	Peak
17286.000	29.87	13.14	43.01	54.00	-10.99	150	248	Average	17286.000	30.08	13.14	43.22	54.00	-10.78	150	23	Average
17286.000	42.29	13.14	55.43	74.00	-18.57	150	248	Peak	17286.000	43.07	13.14	56.21	74.00	-17.79	150	23	Peak
17745.000	32.52	17.81	50.33	54.00	-3.67	150	336	Average	17796.000	32.53	18.11	50.64	54.00	-3.36	150	151	Average
17745.000	45.29	17.81	63.10	74.00	-10.90	150	336	Peak	17796.000	45.03	18.11	63.14	74.00	-10.86	150	151	Peak

Note:

Level = Reading + Factor.

Margin = Level – Limit.

Factor = Antenna Factor + Cable Loss – Amplifier Gain.

802.11g Mode:

Low channel									
Horizontal					Vertical				
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark	
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		
4824.000	44.16	-4.44	39.72	54.00	-14.28	102	41	Average	
4824.000	53.29	-4.44	48.85	74.00	-25.15	102	41	Peak	
7236.000	31.20	0.65	31.85	54.00	-22.15	151	352	Average	
7236.000	43.34	0.65	43.99	74.00	-30.01	151	352	Peak	
10367.000	38.48	5.67	44.15	54.00	-9.85	150	74	Average	
10367.000	45.12	5.67	50.79	74.00	-23.21	150	74	Peak	
14481.000	41.82	11.09	52.91	54.00	-1.09	150	228	Average	
14481.000	47.84	11.09	58.93	74.00	-15.07	150	228	Peak	
17286.000	30.42	13.14	43.56	54.00	-10.44	150	167	Average	
17286.000	42.41	13.14	55.55	74.00	-18.45	150	167	Peak	
17745.000	32.70	17.81	50.51	54.00	-3.49	150	25	Average	
17745.000	45.86	17.81	63.67	74.00	-10.33	150	25	Peak	
Middle channel									
Horizontal					Vertical				
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark	
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		
4874.000	44.08	-4.19	39.89	54.00	-14.11	106	41	Average	
4874.000	53.17	-4.19	48.98	74.00	-25.02	106	41	Peak	
7311.000	31.28	0.89	32.17	54.00	-21.83	162	117	Average	
7311.000	43.77	0.89	44.66	74.00	-29.34	162	117	Peak	
10367.000	35.76	5.67	41.43	54.00	-12.57	150	214	Average	
10367.000	43.19	5.67	48.86	74.00	-25.14	150	214	Peak	
14634.000	38.60	11.05	49.65	54.00	-4.35	150	300	Average	
14634.000	44.70	11.05	55.75	74.00	-18.25	150	300	Peak	
17286.000	30.32	13.14	43.46	54.00	-10.54	150	158	Average	
17286.000	43.55	13.14	56.69	74.00	-17.31	150	158	Peak	
17779.000	32.60	18.01	50.61	54.00	-3.39	150	11	Average	
17779.000	45.02	18.01	63.03	74.00	-10.97	150	11	Peak	
High channel									
Horizontal					Vertical				
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark	
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		
4924.000	42.74	-4.08	38.66	54.00	-15.34	106	96	Average	
4924.000	49.52	-4.08	45.44	74.00	-28.56	106	96	Peak	
7386.000	31.36	1.02	32.38	54.00	-21.62	154	360	Average	
7386.000	43.70	1.02	44.72	74.00	-29.28	154	360	Peak	
10367.000	39.56	5.67	45.23	54.00	-8.77	150	224	Average	
10367.000	44.12	5.67	49.79	74.00	-24.21	150	224	Peak	
14430.000	30.00	10.99	40.99	54.00	-13.01	150	20	Average	
14430.000	42.89	10.99	53.88	74.00	-20.12	150	20	Peak	
17354.000	29.61	13.54	43.15	54.00	-10.85	150	196	Average	
17354.000	42.46	13.54	56.00	74.00	-18.00	150	196	Peak	
17762.000	32.71	17.91	50.62	54.00	-3.38	150	88	Average	
17762.000	45.27	17.91	63.18	74.00	-10.82	150	88	Peak	

Note:

Level = Reading + Factor.

Margin = Level – Limit.

Factor = Antenna Factor + Cable Loss – Amplifier Gain.

802.11n HT20 Mode:

Low channel																	
Horizontal									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)	(°)		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4824.000	43.76	-4.44	39.32	54.00	-14.68	143	44	Average	4824.000	46.16	-4.44	41.72	54.00	-12.28	106	352	Average
4824.000	52.28	-4.44	47.84	74.00	-26.16	143	44	Peak	4824.000	54.23	-4.44	49.79	74.00	-24.21	106	352	Peak
7236.000	31.05	0.65	31.70	54.00	-22.30	152	333	Average	7236.000	32.30	0.65	32.95	54.00	-21.05	159	144	Average
7236.000	44.66	0.65	45.31	74.00	-28.69	152	333	Peak	7236.000	43.58	0.65	44.23	74.00	-29.77	159	144	Peak
10367.000	34.72	5.67	40.39	54.00	-13.61	150	156	Average	10367.000	43.58	5.67	49.25	54.00	-4.75	150	144	Average
10367.000	42.12	5.67	47.79	74.00	-26.21	150	156	Peak	10367.000	46.59	5.67	52.26	74.00	-21.74	150	144	Peak
14481.000	33.13	11.09	44.22	54.00	-9.78	150	202	Average	14413.000	30.05	10.96	41.01	54.00	-12.99	150	208	Average
14481.000	42.73	11.09	53.82	74.00	-20.18	150	202	Peak	14413.000	43.59	10.96	54.55	74.00	-19.45	150	208	Peak
17286.000	30.09	13.14	43.23	54.00	-10.77	150	333	Average	17320.000	30.05	13.38	43.43	54.00	-10.57	150	162	Average
17286.000	43.18	13.14	56.32	74.00	-17.68	150	333	Peak	17320.000	43.41	13.38	56.79	74.00	-17.21	150	162	Peak
17779.000	32.94	18.01	50.95	54.00	-3.05	150	120	Average	17864.000	30.81	18.30	49.11	54.00	-4.89	150	311	Average
17779.000	46.10	18.01	64.11	74.00	-9.89	150	120	Peak	17864.000	44.69	18.30	62.99	74.00	-11.01	150	311	Peak

Middle channel																	
Horizontal									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)	(°)		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4874.000	42.87	-4.19	38.68	54.00	-15.32	104	40	Average	4874.000	52.73	-4.19	48.54	54.00	-5.46	106	250	Average
4874.000	51.45	-4.19	47.26	74.00	-26.74	104	40	Peak	4874.000	61.43	-4.19	57.24	74.00	-16.76	106	250	Peak
7311.000	31.12	0.89	32.01	54.00	-21.99	151	238	Average	7311.000	32.13	0.89	33.02	54.00	-20.98	140	339	Average
7311.000	43.59	0.89	44.48	74.00	-29.52	151	238	Peak	7311.000	44.64	0.89	45.53	74.00	-28.47	140	339	Peak
9755.000	34.00	4.59	38.59	54.00	-15.41	150	261	Average	10367.000	33.84	5.67	39.51	54.00	-14.49	150	205	Average
9755.000	44.16	4.59	48.75	74.00	-25.25	150	261	Peak	10367.000	43.31	5.67	48.98	74.00	-25.02	150	205	Peak
10367.000	37.27	5.67	42.94	54.00	-11.06	150	28	Average	14345.000	30.52	10.86	41.38	54.00	-12.62	150	119	Average
10367.000	42.74	5.67	48.41	74.00	-25.59	150	28	Peak	14345.000	43.56	10.86	54.42	74.00	-19.58	150	119	Peak
14634.000	38.50	11.05	49.55	54.00	-4.45	150	117	Average	15842.000	31.09	9.43	40.52	54.00	-13.48	150	358	Average
14634.000	43.51	11.05	54.56	74.00	-19.44	150	117	Peak	15842.000	44.42	9.43	53.85	74.00	-20.15	150	358	Peak
17779.000	32.91	18.01	50.92	54.00	-3.08	150	349	Average	17796.000	33.40	18.11	51.51	54.00	-2.49	150	62	Average
17779.000	45.30	18.01	63.31	74.00	-10.69	150	349	Peak	17796.000	44.84	18.11	62.95	74.00	-11.05	150	62	Peak

High channel																	
Horizontal									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)	(°)		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4924.000	42.00	-4.08	37.92	54.00	-16.08	110	144	Average	4924.000	50.85	-4.08	46.77	54.00	-7.23	109	146	Average
4924.000	48.45	-4.08	44.37	74.00	-29.63	110	144	Peak	4924.000	60.78	-4.08	56.70	74.00	-17.30	109	146	Peak
7386.000	31.17	1.02	32.19	54.00	-21.81	158	213	Average	7386.000	31.21	1.02	32.23	54.00	-21.77	157	216	Average
7386.000	42.16	1.02	43.18	74.00	-30.82	158	213	Peak	7386.000	42.95	1.02	43.97	74.00	-30.03	157	216	Peak
14413.000	30.56	10.96	41.52	54.00	-12.48	150	229	Average	12475.000	30.35	7.91	38.26	54.00	-15.74	150	152	Average
14413.000	42.40	10.96	53.36	74.00	-19.64	150	229	Peak	12475.000	43.10	7.91	51.01	74.00	-22.99	150	152	Peak
16759.000	34.73	9.03	43.76	54.00	-10.24	150	360	Average	14447.000	30.82	11.02	41.84	54.00	-12.16	150	319	Average
16759.000	45.15	9.03	54.18	74.00	-19.82	150	360	Peak	14447.000	43.18	11.02	54.20	74.00	-19.00	150	319	Peak
17235.000	34.46	12.59	47.05	54.00	-6.95	150	152	Average	17303.000	30.28	13.30	43.58	54.00	-10.42	150	2	Average
17235.000	43.20	12.59	55.79	74.00	-18.21	150	152	Peak	17303.000	42.88	13.30	56.18	74.00	-17.82	150	2	Peak
17762.000	33.29	17.91	51.20	54.00	-2.80	150	285	Average	17796.000	33.26	18.11	51.37	54.00	-2.63	150	41	Average
17762.000	44.82	17.91	62.73	74.00	-11.27	150	285	Peak	17796.000	44.78	18.11	62.89	74.00	-11.11	150	41	Peak

Note:

Level = Reading + Factor.

Margin = Level – Limit.

Factor = Antenna Factor + Cable Loss – Amplifier Gain.

802.11n HT40 Mode:

Low channel																	
Horizontal									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)	(°)	MHz		dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)
4844.000	43.75	-4.31	39.44	54.00	-14.56	133	43	Average	4844.000	50.87	-4.31	46.56	54.00	-7.44	103	287	Average
4844.000	51.50	-4.31	47.19	74.00	-26.81	133	43	Peak	4844.000	59.92	-4.31	55.61	74.00	-18.39	103	287	Peak
7266.000	31.06	0.76	31.82	54.00	-22.18	159	205	Average	7266.000	31.51	0.76	32.27	54.00	-21.73	155	31	Average
7266.000	44.03	0.76	44.79	74.00	-29.21	159	205	Peak	7266.000	42.52	0.76	43.28	74.00	-30.72	155	31	Peak
10367.000	36.59	5.67	42.26	54.00	-11.74	150	259	Average	10367.000	34.28	5.67	39.95	54.00	-14.05	150	314	Average
10367.000	42.96	5.67	48.63	74.00	-25.37	150	259	Peak	10367.000	42.11	5.67	47.78	74.00	-26.22	150	314	Peak
14532.000	36.50	11.14	47.64	54.00	-6.36	150	83	Average	14515.000	30.13	11.13	41.26	54.00	-12.74	150	205	Average
14532.000	43.35	11.14	54.49	74.00	-19.51	150	83	Peak	14515.000	42.25	11.13	53.38	74.00	-20.62	150	205	Peak
16997.000	32.10	10.13	42.23	54.00	-11.77	150	259	Average	17252.000	30.59	12.76	43.35	54.00	-10.65	150	117	Average
16997.000	43.43	10.13	53.56	74.00	-20.44	150	259	Peak	17252.000	43.20	12.76	55.96	74.00	-18.04	150	117	Peak
17796.000	32.94	18.11	51.05	54.00	-2.95	150	146	Average	17779.000	32.75	18.01	50.76	54.00	-3.24	150	360	Average
17796.000	44.38	18.11	62.49	74.00	-11.51	150	146	Peak	17779.000	44.45	18.01	62.46	74.00	-11.54	150	360	Peak

Middle channel																	
Horizontal									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)	(°)	MHz		dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)
4874.000	44.86	-4.19	40.67	54.00	-13.33	106	38	Average	4874.000	51.82	-4.19	47.63	54.00	-6.37	106	286	Average
4874.000	51.17	-4.19	46.98	74.00	-27.02	106	38	Peak	4874.000	58.71	-4.19	54.52	74.00	-19.48	106	286	Peak
7311.000	32.19	0.89	33.08	54.00	-20.92	153	312	Average	7311.000	31.64	0.89	32.53	54.00	-21.47	154	221	Average
7311.000	43.38	0.89	44.27	74.00	-29.73	153	312	Peak	7311.000	43.80	0.89	44.69	74.00	-29.31	154	221	Peak
10367.000	35.35	5.67	41.02	54.00	-12.98	150	289	Average	14413.000	30.43	10.96	41.39	54.00	-12.61	150	314	Average
10367.000	43.34	5.67	49.01	74.00	-24.99	150	289	Peak	14413.000	43.09	10.96	54.05	74.00	-19.95	150	314	Peak
14634.000	38.53	11.05	49.58	54.00	-4.42	150	114	Average	14855.000	29.95	10.32	40.27	54.00	-13.73	150	200	Average
14634.000	45.17	11.05	56.22	74.00	-17.78	150	114	Peak	14855.000	42.70	10.32	53.02	74.00	-20.98	150	200	Peak
17380.000	30.51	13.70	44.21	54.00	-9.79	150	320	Average	17150.000	31.70	11.68	43.38	54.00	-10.62	150	195	Average
17380.000	42.17	13.70	55.87	74.00	-18.13	150	320	Peak	17150.000	43.48	11.68	55.16	74.00	-18.84	150	195	Peak
17796.000	32.79	18.11	50.90	54.00	-3.10	150	55	Average	17779.000	32.96	18.01	50.97	54.00	-3.03	150	333	Average
17796.000	45.04	18.11	63.15	74.00	-10.85	150	55	Peak	17779.000	44.56	18.01	62.57	74.00	-11.43	150	333	Peak

High channel																	
Horizontal									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)	(°)	MHz		dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)
4904.000	41.20	-4.11	37.09	54.00	-16.91	136	145	Average	4904.000	50.38	-4.11	46.27	54.00	-7.73	106	62	Average
4904.000	48.65	-4.11	44.54	74.00	-29.46	136	145	Peak	4904.000	57.35	-4.11	53.24	74.00	-20.76	106	62	Peak
7356.000	31.35	1.06	32.41	54.00	-21.59	158	205	Average	7356.000	31.62	1.06	32.68	54.00	-21.32	151	315	Average
7356.000	43.68	1.06	44.74	74.00	-29.26	158	205	Peak	7356.000	44.05	1.06	45.11	74.00	-28.89	151	315	Peak
14413.000	30.41	10.96	41.37	54.00	-12.63	150	316	Average	10367.000	37.60	5.67	43.27	54.00	-10.73	150	159	Average
14413.000	43.30	10.96	54.26	74.00	-19.74	150	316	Peak	10367.000	44.33	5.67	50.00	74.00	-24.00	150	159	Peak
14702.000	30.64	10.82	41.46	54.00	-12.54	150	28	Average	14719.000	33.22	10.78	44.00	54.00	-10.00	150	316	Average
14702.000	42.93	10.82	53.75	74.00	-20.25	150	28	Peak	14719.000	43.49	10.78	54.27	74.00	-19.73	150	316	Peak
17320.000	30.60	13.38	43.98	54.00	-10.02	150	99	Average	17456.000	31.96	14.51	46.47	54.00	-7.53	150	220	Average
17320.000	43.35	13.38	56.73	74.00	-17.27	150	99	Peak	17456.000	42.77	14.51	57.28	74.00	-16.72	150	220	Peak
17779.000	32.96	18.01	50.97	54.00	-3.03	150	146	Average	17779.000	33.15	18.01	51.16	54.00	-2.84	150	2	Average
17779.000	45.84	18.01	63.85	74.00	-10.15	150	146	Peak	17779.000	45.55	18.01	63.56	74.00	-10.44	150	2	Peak

Note:

Level = Reading + Factor.

Margin = Level – Limit.

Factor = Antenna Factor + Cable Loss – Amplifier Gain.

802.11ax HE20 Mode:

Low channel																
Horizontal								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)	(°)	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4824.000	44.19	-4.44	39.75	54.00	-14.25	103	40	Average	4824.000	45.80	-4.44	41.36	54.00	-12.64	103	354
4824.000	51.92	-4.44	47.48	74.00	-26.52	103	40	Peak	4824.000	55.03	-4.44	50.59	74.00	-23.41	103	354
7236.000	31.31	0.65	31.96	54.00	-22.04	150	319	Average	7236.000	32.18	0.65	32.83	54.00	-21.17	146	212
7236.000	42.64	0.65	43.29	74.00	-30.71	150	319	Peak	7236.000	43.13	0.65	43.78	74.00	-30.22	146	212
10367.000	36.40	5.67	42.07	54.00	-11.93	150	228	Average	10367.000	44.05	5.67	49.72	54.00	-4.28	150	49
10367.000	43.63	5.67	49.30	74.00	-24.70	150	228	Peak	10367.000	47.73	5.67	53.40	74.00	-20.60	150	49
14481.000	41.19	11.09	52.28	54.00	-1.72	150	106	Average	13954.000	31.34	10.05	41.39	54.00	-12.61	150	188
14481.000	46.32	11.09	57.41	74.00	-16.59	150	106	Peak	13954.000	43.80	10.05	53.85	74.00	-20.15	150	188
16640.000	32.47	8.23	40.70	54.00	-13.30	150	3	Average	14430.000	29.43	10.99	40.42	54.00	-13.58	150	326
16640.000	44.96	8.23	53.19	74.00	-20.81	150	3	Peak	14430.000	43.13	10.99	54.12	74.00	-19.88	150	326
17762.000	32.95	17.91	50.86	54.00	-3.14	150	225	Average	17813.000	32.86	18.16	51.02	54.00	-2.98	150	215
17762.000	45.41	17.91	63.32	74.00	-10.68	150	225	Peak	17813.000	44.94	18.16	63.10	74.00	-10.90	150	215

Middle channel																
Horizontal								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)	(°)	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4874.000	43.32	-4.19	39.13	54.00	-14.87	102	41	Average	4874.000	52.36	-4.19	48.17	54.00	-5.83	105	283
4874.000	52.86	-4.19	48.67	74.00	-25.33	102	41	Peak	4874.000	62.38	-4.19	58.19	74.00	-15.81	105	283
7311.000	31.48	0.89	32.37	54.00	-21.63	158	319	Average	7311.000	31.93	0.89	32.82	54.00	-21.18	152	20
7311.000	43.37	0.89	44.26	74.00	-29.74	158	319	Peak	7311.000	44.13	0.89	45.02	74.00	-28.98	152	20
10367.000	34.68	5.67	40.35	54.00	-13.65	150	352	Average	14413.000	31.51	10.96	42.47	54.00	-11.53	150	339
10367.000	42.87	5.67	48.54	74.00	-25.46	150	352	Peak	14413.000	42.64	10.96	53.60	74.00	-20.40	150	339
14634.000	38.63	11.05	49.68	54.00	-4.32	150	206	Average	14634.000	29.67	11.05	40.72	54.00	-13.28	150	127
14634.000	45.04	11.05	56.09	74.00	-17.91	150	206	Peak	14634.000	42.45	11.05	53.50	74.00	-20.50	150	127
17320.000	30.48	13.38	43.86	54.00	-10.14	150	197	Average	17286.000	31.36	13.14	44.50	54.00	-9.50	150	252
17320.000	43.21	13.38	56.59	74.00	-17.41	150	197	Peak	17286.000	42.69	13.14	55.83	74.00	-18.17	150	252
17830.000	32.51	18.21	50.72	54.00	-3.28	150	86	Average	17779.000	32.92	18.01	50.93	54.00	-3.07	150	19
17830.000	45.31	18.21	63.52	74.00	-10.48	150	86	Peak	17779.000	45.10	18.01	63.11	74.00	-10.09	150	19

High channel																
Horizontal								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)	(°)	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4924.000	45.46	-4.08	41.38	54.00	-12.62	214	146	Average	4924.000	50.92	-4.08	46.84	54.00	-7.16	108	255
4924.000	50.77	-4.08	46.69	74.00	-27.31	214	146	Peak	4924.000	58.55	-4.08	54.47	74.00	-19.53	108	255
7386.000	31.12	1.02	32.14	54.00	-21.86	153	1	Average	7386.000	31.00	1.02	32.02	54.00	-21.98	156	322
7386.000	42.19	1.02	43.21	74.00	-30.79	153	1	Peak	7386.000	44.25	1.02	45.27	74.00	-28.73	156	322
10367.000	34.96	5.67	40.63	54.00	-13.37	150	146	Average	13444.000	32.03	9.39	41.42	54.00	-12.58	150	314
10367.000	42.61	5.67	48.28	74.00	-25.72	150	146	Peak	13444.000	44.04	9.39	53.43	74.00	-20.57	150	314
14736.000	30.50	10.72	41.22	54.00	-12.78	150	238	Average	14481.000	32.37	11.09	43.46	54.00	-10.54	150	28
14736.000	42.86	10.72	53.58	74.00	-20.42	150	238	Peak	14481.000	42.88	11.09	53.97	74.00	-20.03	150	28
17507.000	31.22	15.17	46.39	54.00	-7.61	150	33	Average	17558.000	31.28	15.71	46.99	54.00	-7.01	150	199
17507.000	42.60	15.17	57.77	74.00	-16.23	150	33	Peak	17558.000	42.20	15.71	57.91	74.00	-16.09	150	199
17813.000	32.84	18.16	51.00	54.00	-3.00	150	169	Average	17779.000	33.00	18.01	51.01	54.00	-2.99	150	138
17813.000	44.59	18.16	62.75	74.00	-11.25	150	169	Peak	17779.000	45.36	18.01	63.37	74.00	-10.63	150	138

Note:

Level = Reading + Factor.

Margin = Level – Limit.

Factor = Antenna Factor + Cable Loss – Amplifier Gain.

802.11ax HE40 Mode:

Low channel																	
Horizontal									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)	(°)		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4844.000	44.52	-4.31	40.21	54.00	-13.79	122	56	Average	4844.000	49.92	-4.31	45.61	54.00	-8.39	106	56	Average
4844.000	51.69	-4.31	47.38	74.00	-26.62	122	56	Peak	4844.000	58.73	-4.31	54.42	74.00	-19.58	106	56	Peak
7266.000	31.33	0.76	32.09	54.00	-21.91	158	263	Average	7266.000	32.02	0.76	32.78	54.00	-21.22	140	252	Average
7266.000	43.44	0.76	44.20	74.00	-29.80	158	263	Peak	7266.000	43.29	0.76	44.05	74.00	-29.95	140	252	Peak
10367.000	40.71	5.67	46.38	54.00	-7.62	150	305	Average	10367.000	34.22	5.67	39.89	54.00	-14.11	150	203	Average
10367.000	46.19	5.67	51.86	74.00	-22.14	150	305	Peak	10367.000	41.34	5.67	47.01	74.00	-26.99	150	203	Peak
14362.000	30.59	10.88	41.47	54.00	-12.53	150	11	Average	14532.000	37.69	11.14	48.83	54.00	-5.17	150	17	Average
14362.000	43.63	10.88	54.51	74.00	-19.49	150	11	Peak	14532.000	44.68	11.14	55.82	74.00	-18.18	150	17	Peak
16674.000	32.22	8.50	40.72	54.00	-13.28	150	295	Average	17167.000	31.81	11.86	43.67	54.00	-10.33	150	149	Average
16674.000	45.88	8.50	54.38	74.00	-19.62	150	295	Peak	17167.000	43.56	11.86	55.42	74.00	-18.58	150	149	Peak
17847.000	32.74	18.25	50.99	54.00	-3.01	150	3	Average	17796.000	33.01	18.11	51.12	54.00	-2.88	150	360	Average
17847.000	45.14	18.25	63.39	74.00	-10.61	150	3	Peak	17796.000	44.63	18.11	62.74	74.00	-11.26	150	360	Peak

Middle channel																	
Horizontal									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)	(°)		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4874.000	46.18	-4.19	41.99	54.00	-12.01	103	345	Average	4874.000	49.23	-4.19	45.04	54.00	-8.96	102	34	Average
4874.000	51.79	-4.19	47.60	74.00	-26.40	103	345	Peak	4874.000	56.77	-4.19	52.58	74.00	-21.42	102	34	Peak
7311.000	31.80	0.89	32.69	54.00	-21.31	156	228	Average	7311.000	32.55	0.89	33.44	54.00	-20.56	143	1	Average
7311.000	43.96	0.89	44.85	74.00	-29.15	156	228	Peak	7311.000	43.99	0.89	44.88	74.00	-29.12	143	1	Peak
10367.000	37.31	5.67	42.98	54.00	-11.02	150	151	Average	10367.000	44.38	5.67	50.05	54.00	-3.95	150	146	Average
10367.000	43.55	5.67	49.22	74.00	-24.78	150	151	Peak	10367.000	47.37	5.67	53.04	74.00	-20.96	150	146	Peak
14634.000	41.04	11.05	52.09	54.00	-1.91	150	206	Average	14634.000	39.57	11.05	50.62	54.00	-3.38	150	209	Average
14634.000	45.44	11.05	56.49	74.00	-17.51	150	206	Peak	14634.000	45.59	11.05	56.64	74.00	-17.36	150	209	Peak
16827.000	31.10	9.43	40.53	54.00	-13.47	150	317	Average	17252.000	30.95	12.76	43.71	54.00	-10.29	150	338	Average
16827.000	44.66	9.43	54.09	74.00	-19.91	150	317	Peak	17252.000	42.89	12.76	55.65	74.00	-18.35	150	338	Peak
17796.000	33.10	18.11	51.21	54.00	-2.79	150	21	Average	17762.000	33.21	17.91	51.12	54.00	-2.88	150	52	Average
17796.000	45.91	18.11	64.02	74.00	-9.98	150	21	Peak	17762.000	44.80	17.91	62.71	74.00	-11.29	150	52	Peak

High channel																	
Horizontal									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)	(°)		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4904.000	46.64	-4.11	42.53	54.00	-11.47	116	347	Average	4904.000	50.75	-4.11	46.64	54.00	-7.36	104	35	Average
4904.000	51.61	-4.11	47.50	74.00	-26.50	116	347	Peak	4904.000	55.50	-4.11	51.39	74.00	-22.61	104	35	Peak
7356.000	32.10	1.06	33.16	54.00	-20.84	152	201	Average	7356.000	31.94	1.06	33.00	54.00	-21.00	158	219	Average
7356.000	43.61	1.06	44.67	74.00	-29.33	152	201	Peak	7356.000	43.90	1.06	44.96	74.00	-29.04	158	219	Peak
10367.000	39.48	5.67	45.15	54.00	-8.85	150	317	Average	10367.000	43.04	5.67	48.71	54.00	-5.29	150	155	Average
10367.000	44.64	5.67	50.31	74.00	-23.69	150	317	Peak	10367.000	46.68	5.67	52.35	74.00	-21.65	150	155	Peak
14719.000	39.75	10.78	50.53	54.00	-3.47	150	252	Average	14719.000	36.12	10.78	46.90	54.00	-7.10	150	39	Average
14719.000	45.66	10.78	56.44	74.00	-17.56	150	252	Peak	14719.000	43.24	10.78	54.02	74.00	-19.98	150	39	Peak
16827.000	31.44	9.43	40.87	54.00	-13.13	150	195	Average	17354.000	30.08	13.54	43.62	54.00	-10.38	150	217	Average
16827.000	44.77	9.43	54.20	74.00	-19.80	150	195	Peak	17354.000	43.22	13.54	56.76	74.00	-17.24	150	217	Peak
17779.000	33.49	18.01	51.50	54.00	-2.50	150	332	Average	17745.000	33.18	17.81	50.99	54.00	-3.01	150	316	Average
17779.000	45.70	18.01	63.71	74.00	-10.29	150	332	Peak	17745.000	44.42	17.81	62.23	74.00	-11.77	150	316	Peak

Note:

Level = Reading + Factor.

Margin = Level – Limit.

Factor = Antenna Factor + Cable Loss – Amplifier Gain.

Beamforming

802.11n HT20 Mode:

Low channel									
Horizontal					Vertical				
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark	
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		
4824.000	44.59	-4.44	40.15	54.00	-13.85	117	41	Average	
4824.000	53.38	-4.44	48.94	74.00	-25.06	117	41	Peak	
6253.000	41.40	-2.02	39.38	54.00	-14.62	150	228	Average	
6253.000	47.04	-2.02	45.02	74.00	-28.98	150	228	Peak	
7236.000	32.14	0.65	32.79	54.00	-21.21	157	227	Average	
7236.000	43.64	0.65	44.29	74.00	-29.71	157	227	Peak	
14481.000	39.90	11.09	50.99	54.00	-3.01	150	109	Average	
14481.000	44.58	11.09	55.67	74.00	-18.33	150	109	Peak	
17337.000	31.00	13.46	44.46	54.00	-9.54	150	337	Average	
17337.000	42.89	13.46	56.35	74.00	-17.65	150	337	Peak	
17745.000	33.05	17.81	50.86	54.00	-3.14	150	138	Average	
17745.000	45.20	17.81	63.01	74.00	-10.99	150	138	Peak	
Middle channel									
Horizontal					Vertical				
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark	
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		
4874.000	44.41	-4.19	40.22	54.00	-13.78	112	39	Average	
4874.000	55.12	-4.19	50.93	74.00	-23.07	112	39	Peak	
6253.000	41.47	-2.02	39.45	54.00	-14.55	150	21	Average	
6253.000	47.30	-2.02	45.28	74.00	-28.72	150	21	Peak	
7311.000	33.13	0.89	34.02	54.00	-19.98	147	107	Average	
7311.000	44.98	0.89	45.87	74.00	-28.13	147	107	Peak	
14634.000	40.09	11.05	51.14	54.00	-2.86	150	228	Average	
14634.000	45.30	11.05	56.35	74.00	-17.65	150	228	Peak	
17031.000	33.26	10.45	43.71	54.00	-10.29	150	309	Average	
17031.000	43.64	10.45	54.09	74.00	-19.91	150	309	Peak	
17745.000	33.27	17.81	51.08	54.00	-2.92	150	143	Average	
17745.000	45.20	17.81	63.01	74.00	-10.99	150	143	Peak	
High channel									
Horizontal					Vertical				
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark	
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		
4924.000	42.49	-4.08	38.41	54.00	-15.59	124	76	Average	
4924.000	50.87	-4.08	46.79	74.00	-27.21	124	76	Peak	
7386.000	31.11	1.02	32.13	54.00	-21.87	144	2	Average	
7386.000	43.39	1.02	44.41	74.00	-29.59	144	2	Peak	
14447.000	30.25	11.02	41.27	54.00	-12.73	150	146	Average	
14447.000	43.14	11.02	54.16	74.00	-19.84	150	146	Peak	
14770.000	32.86	10.62	43.48	54.00	-10.52	150	250	Average	
14770.000	45.07	10.62	55.69	74.00	-20.31	150	250	Peak	
17269.000	30.53	12.95	43.48	54.00	-10.52	150	320	Average	
17269.000	43.41	12.95	56.36	74.00	-17.64	150	320	Peak	
17745.000	33.38	17.81	51.19	54.00	-2.81	150	114	Average	
17745.000	45.28	17.81	63.09	74.00	-10.91	150	114	Peak	
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark	
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		
4924.000	52.37	-4.08	48.29	54.00	-5.71	105	285	Average	
4924.000	57.71	-4.08	53.63	74.00	-20.37	105	285	Peak	
7386.000	31.93	1.02	32.95	54.00	-21.05	152	322	Average	
7386.000	43.16	1.02	44.18	74.00	-29.82	152	322	Peak	
10367.000	34.74	5.67	40.41	54.00	-13.59	150	144	Average	
10367.000	43.73	5.67	49.40	74.00	-24.60	150	144	Peak	
14770.000	33.42	10.62	44.04	54.00	-9.96	150	206	Average	
14770.000	45.51	10.62	56.13	74.00	-19.87	150	206	Peak	
17303.000	30.27	13.30	43.57	54.00	-10.43	150	325	Average	
17303.000	42.91	13.30	56.21	74.00	-17.79	150	325	Peak	
17813.000	32.98	18.16	51.14	54.00	-2.86	150	11	Average	
17813.000	44.60	18.16	62.76	74.00	-11.24	150	11	Peak	

Note:

Level = Reading + Factor.

Margin = Level – Limit.

Factor = Antenna Factor + Cable Loss – Amplifier Gain.

802.11n HT40 Mode:

Low channel									
Horizontal					Vertical				
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark	
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		
4844.000	43.34	-4.31	39.03	54.00	-14.97	109	40	Average	
4844.000	50.05	-4.31	45.74	74.00	-28.26	109	40	Peak	
6253.000	41.56	-2.02	39.54	54.00	-14.46	150	118	Average	
6253.000	48.12	-2.02	46.10	74.00	-27.90	150	118	Peak	
7266.000	32.46	0.76	33.22	54.00	-20.78	145	323	Average	
7266.000	43.49	0.76	44.25	74.00	-29.75	145	323	Peak	
14532.000	41.47	11.14	52.61	54.00	-1.39	150	205	Average	
14532.000	45.90	11.14	57.04	74.00	-16.96	150	205	Peak	
17337.000	29.92	13.46	43.38	54.00	-10.62	150	46	Average	
17337.000	42.56	13.46	56.02	74.00	-17.98	150	46	Peak	
17813.000	33.09	18.16	51.25	54.00	-2.75	150	118	Average	
17813.000	44.73	18.16	62.89	74.00	-11.11	150	118	Peak	
Middle channel									
Horizontal					Vertical				
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark	
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		
4874.000	44.26	-4.19	40.07	54.00	-13.93	110	36	Average	
4874.000	53.19	-4.19	49.00	74.00	-25.00	110	36	Peak	
6253.000	43.77	-2.02	41.75	54.00	-12.25	150	347	Average	
6253.000	48.07	-2.02	46.05	74.00	-27.95	150	347	Peak	
7311.000	32.41	0.89	33.30	54.00	-20.70	146	100	Average	
7311.000	44.17	0.89	45.06	74.00	-28.94	146	100	Peak	
10367.000	40.95	5.67	46.62	54.00	-7.38	150	226	Average	
10367.000	45.93	5.67	51.60	74.00	-22.40	150	226	Peak	
14634.000	34.12	11.05	45.17	54.00	-8.83	150	285	Average	
14634.000	43.74	11.05	54.79	74.00	-19.21	150	285	Peak	
17813.000	33.01	18.16	51.17	54.00	-2.83	150	144	Average	
17813.000	46.61	18.16	64.77	74.00	-9.23	150	144	Peak	
High channel									
Horizontal					Vertical				
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark	
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		
4904.000	42.77	-4.11	38.66	54.00	-15.34	110	75	Average	
4904.000	49.50	-4.11	45.39	74.00	-28.61	110	75	Peak	
6253.000	34.46	-2.02	32.44	54.00	-21.56	150	221	Average	
6253.000	46.00	-2.02	43.98	74.00	-30.02	150	221	Peak	
7356.000	31.32	1.06	32.38	54.00	-21.62	142	33	Average	
7356.000	43.25	1.06	44.31	74.00	-29.69	142	33	Peak	
10367.000	36.56	5.67	42.23	54.00	-11.77	150	258	Average	
10367.000	45.23	5.67	50.90	74.00	-23.10	150	258	Peak	
14719.000	36.40	10.78	47.18	54.00	-6.82	150	149	Average	
14719.000	43.87	10.78	54.65	74.00	-19.35	150	149	Peak	
17796.000	32.96	18.11	51.07	54.00	-2.93	150	332	Average	
17796.000	44.64	18.11	62.75	74.00	-11.25	150	332	Peak	
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark	
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		
4904.000	51.23	-4.11	47.12	54.00	-6.88	105	285	Average	
4904.000	58.06	-4.11	53.95	74.00	-20.05	105	285	Peak	
7356.000	31.87	1.06	32.93	54.00	-21.07	143	6	Average	
7356.000	43.63	1.06	44.69	74.00	-29.31	143	6	Peak	
10367.000	37.11	5.67	42.78	54.00	-11.22	150	58	Average	
10367.000	45.74	5.67	51.41	74.00	-22.59	150	58	Peak	
14719.000	33.92	10.78	44.70	54.00	-9.30	150	220	Average	
14719.000	43.68	10.78	54.46	74.00	-19.54	150	220	Peak	
17320.000	30.20	13.38	43.58	54.00	-10.42	150	235	Average	
17320.000	42.41	13.38	55.79	74.00	-18.21	150	235	Peak	
17813.000	32.83	18.16	50.99	54.00	-3.01	150	11	Average	
17813.000	44.68	18.16	62.84	74.00	-11.16	150	11	Peak	

Note:

Level = Reading + Factor.

Margin = Level – Limit.

Factor = Antenna Factor + Cable Loss – Amplifier Gain.

802.11ax HE20 Mode:

Low channel																	
Horizontal									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)	(°)		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4824.000	44.11	-4.44	39.67	54.00	-14.33	106	45	Average	4824.000	51.76	-4.44	47.32	54.00	-6.68	101	285	Average
4824.000	54.17	-4.44	49.73	74.00	-24.27	106	45	Peak	4824.000	59.03	-4.44	54.59	74.00	-19.41	101	285	Peak
6253.000	38.67	-2.02	36.65	54.00	-17.35	150	106	Average	7236.000	31.29	0.65	31.94	54.00	-22.06	155	350	Average
6253.000	45.81	-2.02	43.79	74.00	-30.21	150	106	Peak	7236.000	44.13	0.65	44.78	74.00	-29.22	155	350	Peak
7236.000	32.50	0.65	33.15	54.00	-20.85	141	288	Average	10367.000	35.51	5.67	41.18	54.00	-12.82	150	220	Average
7236.000	44.25	0.65	44.90	74.00	-29.10	141	288	Peak	10367.000	42.99	5.67	48.66	74.00	-25.34	150	220	Peak
10367.000	40.45	5.67	46.12	54.00	-7.88	150	189	Average	14481.000	35.17	11.09	46.26	54.00	-7.74	150	316	Average
10367.000	45.06	5.67	50.73	74.00	-23.27	150	189	Peak	14481.000	43.81	11.09	54.90	74.00	-19.10	150	316	Peak
14481.000	38.05	11.09	49.14	54.00	-4.86	150	89	Average	17320.000	30.03	13.38	43.41	54.00	-10.59	150	23	Average
14481.000	44.89	11.09	55.98	74.00	-18.02	150	89	Peak	17320.000	42.41	13.38	55.79	74.00	-18.21	150	23	Peak
17796.000	32.87	18.11	50.98	54.00	-3.02	150	322	Average	17796.000	32.55	18.11	50.66	54.00	-3.34	150	111	Average
17796.000	45.47	18.11	63.58	74.00	-10.42	150	322	Peak	17796.000	44.66	18.11	62.77	74.00	-11.23	150	111	Peak

Middle channel																	
Horizontal									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)	(°)		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4874.000	43.47	-4.19	39.28	54.00	-14.72	111	37	Average	4874.000	52.87	-4.19	48.68	54.00	-5.32	105	283	Average
4874.000	52.27	-4.19	48.08	74.00	-25.92	111	37	Peak	4874.000	60.90	-4.19	56.71	74.00	-17.29	105	283	Peak
6253.000	43.00	-2.02	40.98	54.00	-13.02	150	320	Average	7311.000	31.68	0.89	32.57	54.00	-21.43	144	149	Average
6253.000	47.79	-2.02	45.77	74.00	-28.23	150	320	Peak	7311.000	44.08	0.89	44.97	74.00	-29.03	144	149	Peak
7311.000	32.67	0.89	33.56	54.00	-20.44	143	227	Average	10367.000	35.39	5.67	41.06	54.00	-12.94	150	326	Average
7311.000	43.62	0.89	44.51	74.00	-29.49	143	227	Peak	10367.000	45.07	5.67	50.74	74.00	-23.26	150	326	Peak
10367.000	40.28	5.67	45.95	54.00	-8.05	150	155	Average	14634.000	31.89	11.05	42.94	54.00	-11.06	150	112	Average
10367.000	45.24	5.67	50.91	74.00	-23.09	150	155	Peak	14634.000	43.45	11.05	54.50	74.00	-19.50	150	112	Peak
14634.000	34.60	11.05	45.65	54.00	-8.35	150	93	Average	17320.000	30.28	13.38	43.66	54.00	-10.34	150	360	Average
14634.000	42.75	11.05	53.80	74.00	-20.20	150	93	Peak	17320.000	42.72	13.38	56.10	74.00	-17.90	150	360	Peak
17779.000	32.98	18.01	50.99	54.00	-3.01	150	26	Average	17813.000	33.13	18.16	51.29	54.00	-2.71	150	112	Average
17779.000	44.69	18.01	62.70	74.00	-11.30	150	26	Peak	17813.000	44.85	18.16	63.01	74.00	-10.99	150	112	Peak

High channel																	
Horizontal									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)	(°)		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4924.000	42.11	-4.08	38.03	54.00	-15.97	105	76	Average	4924.000	52.33	-4.08	48.25	54.00	-5.75	103	282	Average
4924.000	49.01	-4.08	44.93	74.00	-29.07	105	76	Peak	4924.000	59.10	-4.08	55.02	74.00	-18.98	103	282	Peak
7386.000	31.37	1.02	32.39	54.00	-21.61	154	48	Average	7386.000	31.92	1.02	32.94	54.00	-21.06	142	118	Average
7386.000	43.28	1.02	44.30	74.00	-29.70	154	48	Peak	7386.000	42.69	1.02	43.71	74.00	-30.29	142	118	Peak
14770.000	33.41	10.62	44.03	54.00	-9.97	150	158	Average	10367.000	35.47	5.67	41.14	54.00	-12.86	150	320	Average
14770.000	42.92	10.62	53.54	74.00	-20.46	150	158	Peak	10367.000	43.98	5.67	49.65	74.00	-24.35	150	320	Peak
16759.000	31.57	9.03	40.60	54.00	-13.40	150	229	Average	14770.000	33.87	10.62	44.49	54.00	-9.51	150	159	Average
16759.000	44.81	9.03	53.84	74.00	-20.16	150	229	Peak	14770.000	43.93	10.62	54.55	74.00	-19.45	150	159	Peak
17303.000	30.79	13.30	44.09	54.00	-9.91	150	158	Average	17116.000	31.47	11.32	42.79	54.00	-11.21	150	278	Average
17303.000	43.23	13.30	56.53	74.00	-17.47	150	158	Peak	17116.000	43.65	11.32	54.97	74.00	-19.03	150	278	Peak
17813.000	32.74	18.16	50.90	54.00	-3.10	150	321	Average	17796.000	32.85	18.11	50.96	54.00	-3.04	150	2	Average
17813.000	44.56	18.16	62.72	74.00	-11.28	150	321	Peak	17796.000	43.91	18.11	62.02	74.00	-11.98	150	2	Peak

Note:

Level = Reading + Factor.

Margin = Level – Limit.

Factor = Antenna Factor + Cable Loss – Amplifier Gain.

802.11ax HE40 Mode:

Low channel									
Horizontal					Vertical				
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark	
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		
4844.000	43.47	-4.31	39.16	54.00	-14.84	108	39	Average	
4844.000	51.88	-4.31	47.57	74.00	-26.43	108	39	Peak	
6253.000	43.39	-2.02	41.37	54.00	-12.63	150	320	Average	
6253.000	47.73	-2.02	45.71	74.00	-28.29	150	320	Peak	
7266.000	32.43	0.76	33.19	54.00	-20.81	146	51	Average	
7266.000	44.07	0.76	44.83	74.00	-29.17	146	51	Peak	
10367.000	40.45	5.67	46.12	54.00	-7.88	150	119	Average	
10367.000	44.45	5.67	50.12	74.00	-23.88	150	119	Peak	
14532.000	39.22	11.14	50.36	54.00	-3.64	150	0	Average	
14532.000	45.46	11.14	56.60	74.00	-17.40	150	0	Peak	
17813.000	32.86	18.16	51.02	54.00	-2.98	150	308	Average	
17813.000	45.78	18.16	63.94	74.00	-10.06	150	308	Peak	
Middle channel									
Horizontal					Vertical				
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark	
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		
4874.000	44.44	-4.19	40.25	54.00	-13.75	113	39	Average	
4874.000	53.38	-4.19	49.19	74.00	-24.81	113	39	Peak	
6253.000	41.75	-2.02	39.73	54.00	-14.27	150	317	Average	
6253.000	46.75	-2.02	44.73	74.00	-29.27	150	317	Peak	
7311.000	32.36	0.89	33.25	54.00	-20.75	142	283	Average	
7311.000	45.06	0.89	45.95	74.00	-28.05	142	283	Peak	
10367.000	33.86	5.67	39.53	54.00	-14.47	150	118	Average	
10367.000	43.46	5.67	49.13	74.00	-24.87	150	118	Peak	
14634.000	38.43	11.05	49.48	54.00	-4.52	150	29	Average	
14634.000	44.14	11.05	55.19	74.00	-18.81	150	29	Peak	
17813.000	32.99	18.16	51.15	54.00	-2.85	150	221	Average	
17813.000	45.03	18.16	63.19	74.00	-10.81	150	221	Peak	
High channel									
Horizontal					Vertical				
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark	
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		
4904.000	42.72	-4.11	38.61	54.00	-15.39	110	73	Average	
4904.000	50.27	-4.11	46.16	74.00	-27.84	110	73	Peak	
7356.000	31.32	1.06	32.38	54.00	-21.62	157	206	Average	
7356.000	43.00	1.06	44.06	74.00	-29.94	157	206	Peak	
10367.000	36.84	5.67	42.51	54.00	-11.49	150	154	Average	
10367.000	44.37	5.67	50.04	74.00	-23.96	150	154	Peak	
14719.000	36.45	10.78	47.23	54.00	-6.77	150	337	Average	
14719.000	43.34	10.78	54.12	74.00	-19.88	150	337	Peak	
17320.000	30.21	13.38	43.59	54.00	-10.41	150	250	Average	
17320.000	43.75	13.38	57.13	74.00	-16.87	150	250	Peak	
17813.000	32.94	18.16	51.10	54.00	-2.90	150	1	Average	
17813.000	45.21	18.16	63.37	74.00	-10.63	150	1	Peak	
4904.000	51.14	-4.11	47.03	54.00	-6.97	105	284	Average	
4904.000	57.35	-4.11	53.24	74.00	-20.76	105	284	Peak	
7356.000	31.77	1.06	32.83	54.00	-21.17	155	42	Average	
7356.000	42.82	1.06	43.88	74.00	-30.12	155	42	Peak	
10367.000	36.48	5.67	42.15	54.00	-11.85	150	42	Average	
10367.000	44.16	5.67	49.83	74.00	-24.17	150	42	Peak	
14719.000	33.24	10.78	44.02	54.00	-9.98	150	246	Average	
14719.000	43.21	10.78	53.99	74.00	-20.81	150	246	Peak	
17362.000	30.20	13.30	43.50	54.00	-10.50	150	118	Average	
17362.000	43.71	13.30	57.01	74.00	-16.99	150	118	Peak	
17796.000	33.04	18.11	51.15	54.00	-2.85	150	325	Average	
17796.000	45.39	18.11	63.50	74.00	-10.50	150	325	Peak	

Note:

Level = Reading + Factor.

Margin = Level – Limit.

Factor = Antenna Factor + Cable Loss – Amplifier Gain.

Conducted Spurious Emissions:**Non Beamforming**

Channel	Frequency (MHz)	Delta Peak to Band Emission (dBc)		Limit (dBc)	Result
		Chain 0	Chain 1		
B mode					
Low	2412	43.24	45.21	≥ 20	PASS
Mid	2437	43.45	44.05	≥ 20	PASS
High	2462	42.59	44.10	≥ 20	PASS
G mode					
Low	2412	39.72	44.67	≥ 20	PASS
Mid	2437	40.42	42.49	≥ 20	PASS
High	2462	38.17	42.41	≥ 20	PASS
N20 mode					
Low	2412	39.79	42.21	≥ 20	PASS
Mid	2437	41.18	41.33	≥ 20	PASS
High	2462	38.81	41.31	≥ 20	PASS
N40 mode					
Low	2422	36.78	39.87	≥ 20	PASS
Mid	2437	36.75	39.19	≥ 20	PASS
High	2452	36.98	38.11	≥ 20	PASS
AX20 mode					
Low	2412	38.32	40.39	≥ 20	PASS
Mid	2437	39.75	42.96	≥ 20	PASS
High	2462	39.39	39.86	≥ 20	PASS
AX40 mode					
Low	2422	35.89	39.54	≥ 20	PASS
Mid	2437	35.05	40.12	≥ 20	PASS
High	2452	36.05	36.99	≥ 20	PASS

Beamforming

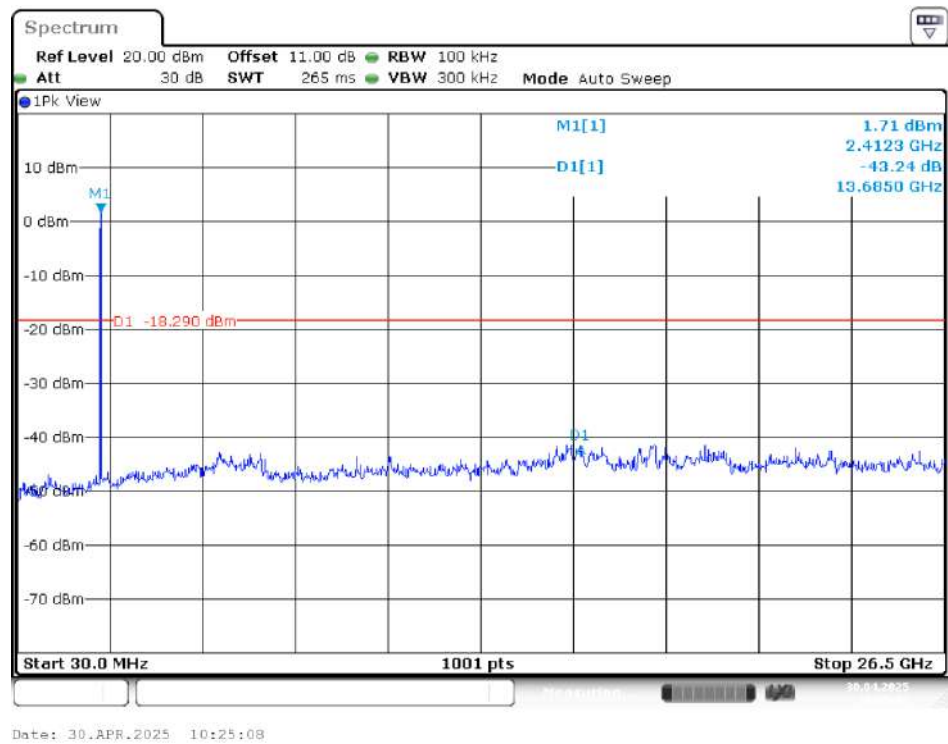
Scanning

Channel	Frequency (MHz)	Delta Peak to Band Emission (dBc)		Limit (dBc)	Result
		Chain 0	Chain 1		
N20 mode					
Low	2412	39.00	40.42	≥ 20	PASS
Mid	2437	37.15	40.40	≥ 20	PASS
High	2462	37.51	38.46	≥ 20	PASS
N40 mode					
Low	2422	35.53	36.65	≥ 20	PASS
Mid	2437	35.09	36.34	≥ 20	PASS
High	2452	35.60	37.10	≥ 20	PASS
AX20 mode					
Low	2412	40.24	41.46	≥ 20	PASS
Mid	2437	40.79	41.47	≥ 20	PASS
High	2462	39.85	42.73	≥ 20	PASS
AX40 mode					
Low	2422	38.05	39.49	≥ 20	PASS
Mid	2437	38.21	39.87	≥ 20	PASS
High	2452	36.71	39.42	≥ 20	PASS

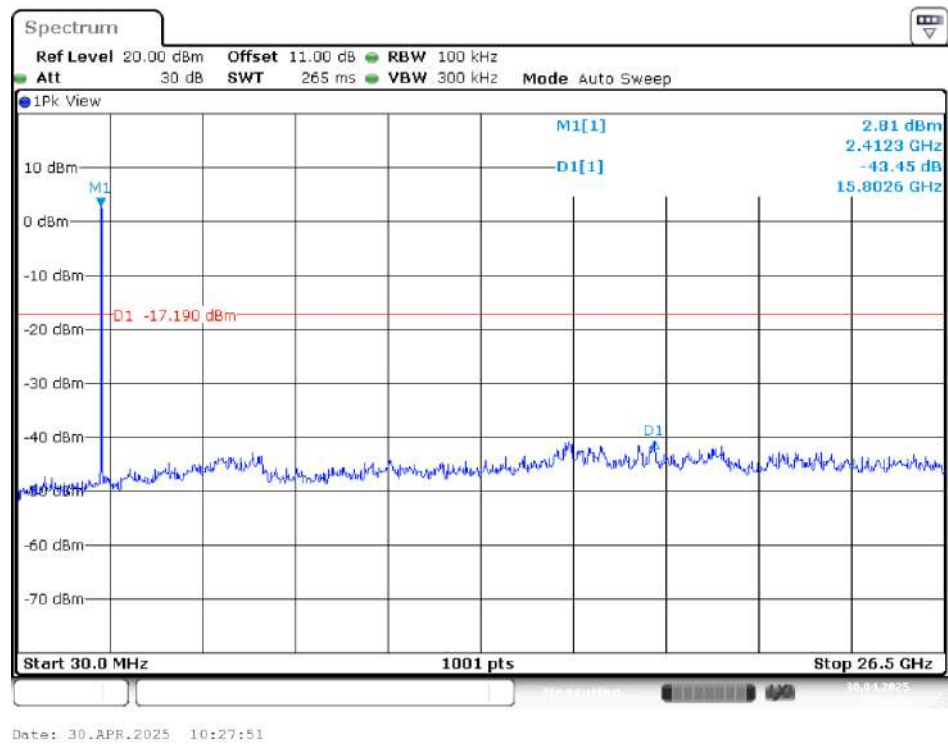
Non Beamforming

Chain 0

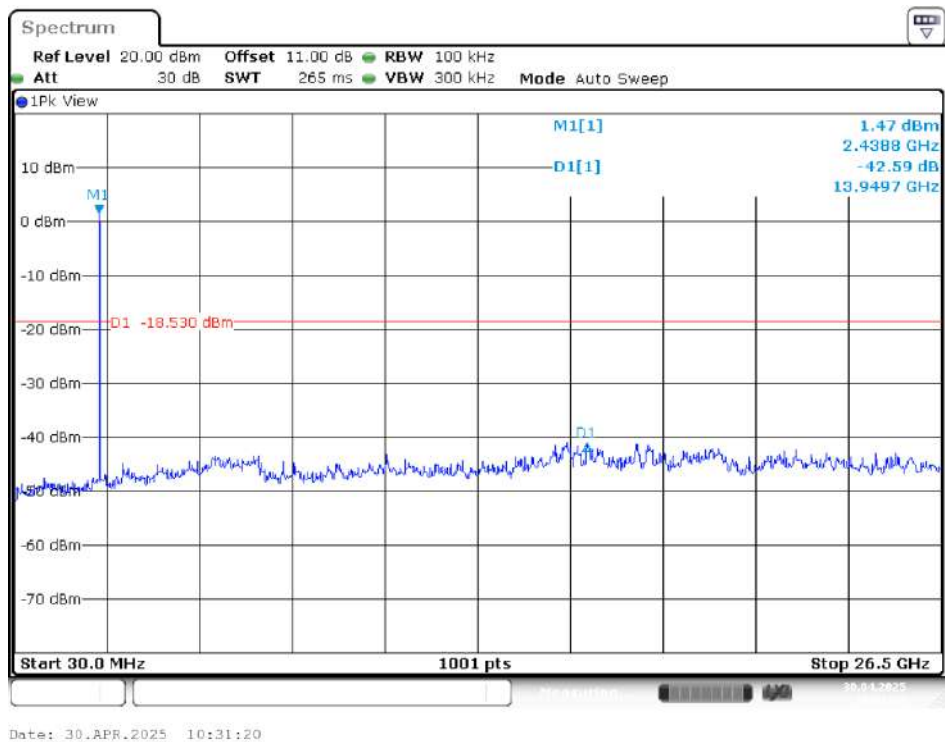
B Mode
Low Channel



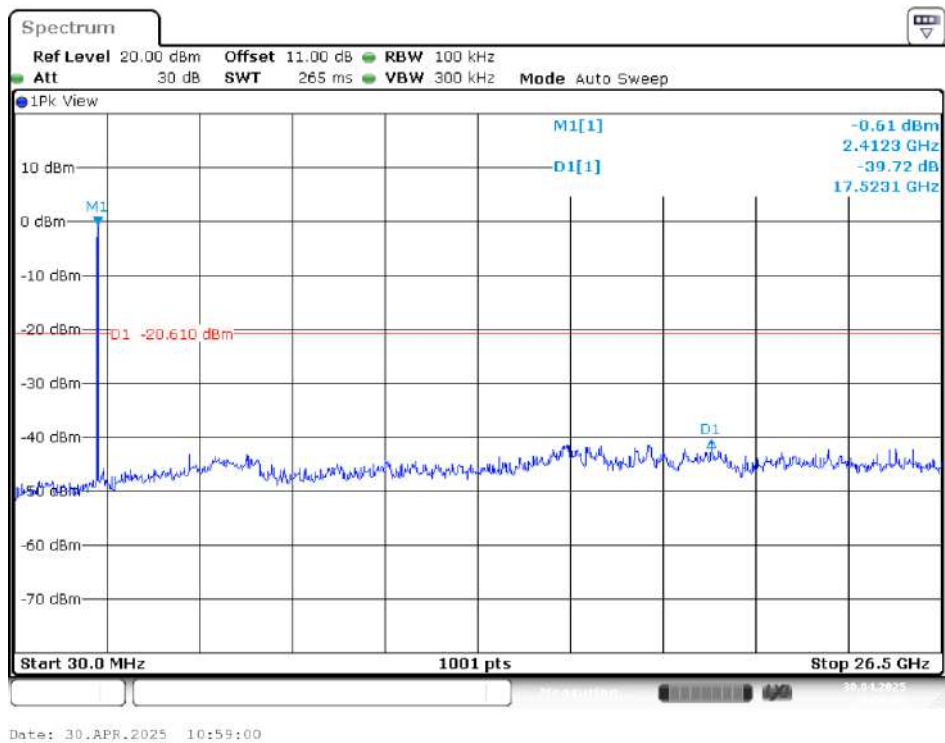
Middle Channel



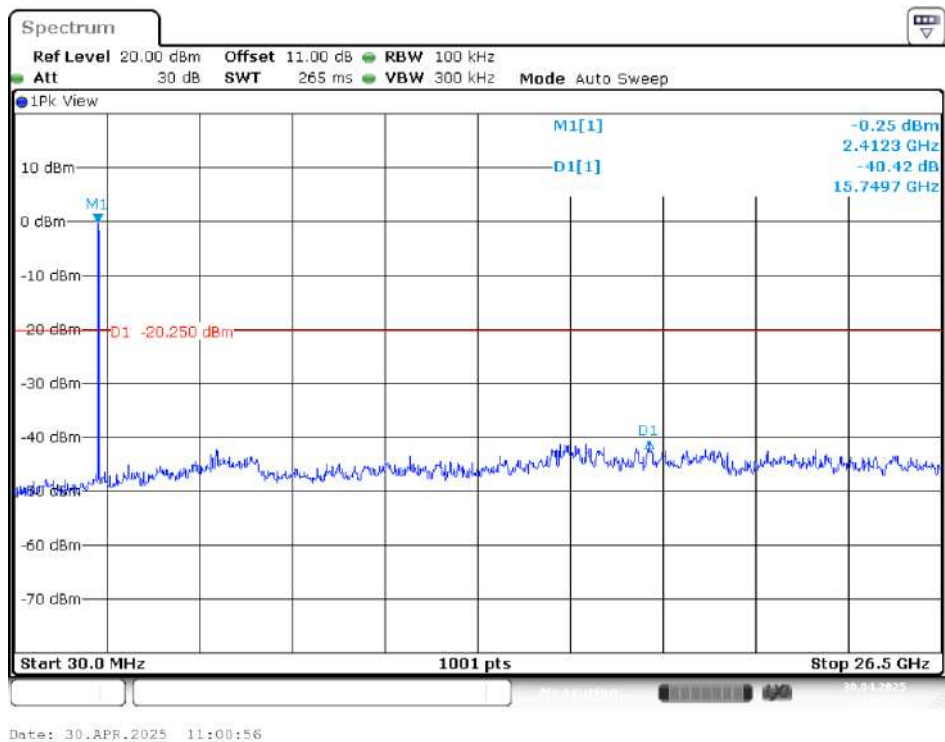
High Channel



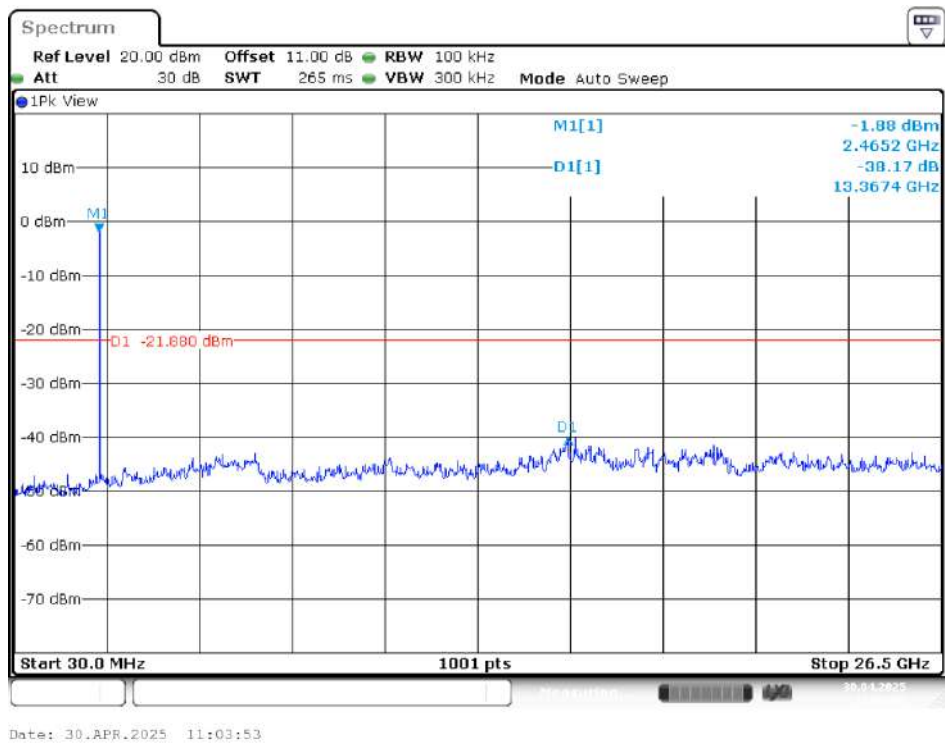
G Mode
Low Channel



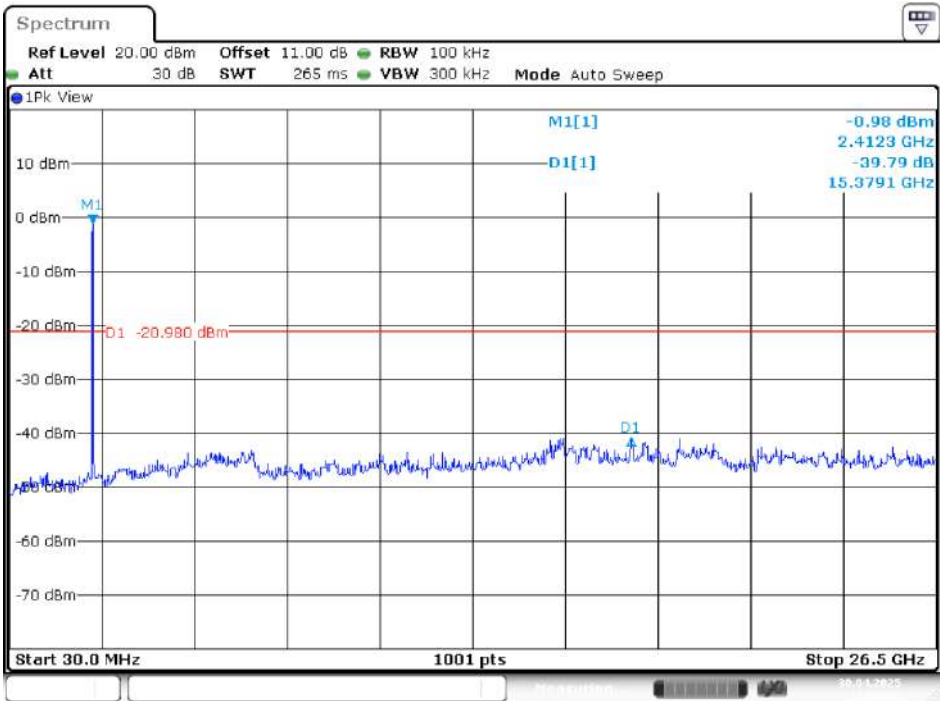
Middle Channel



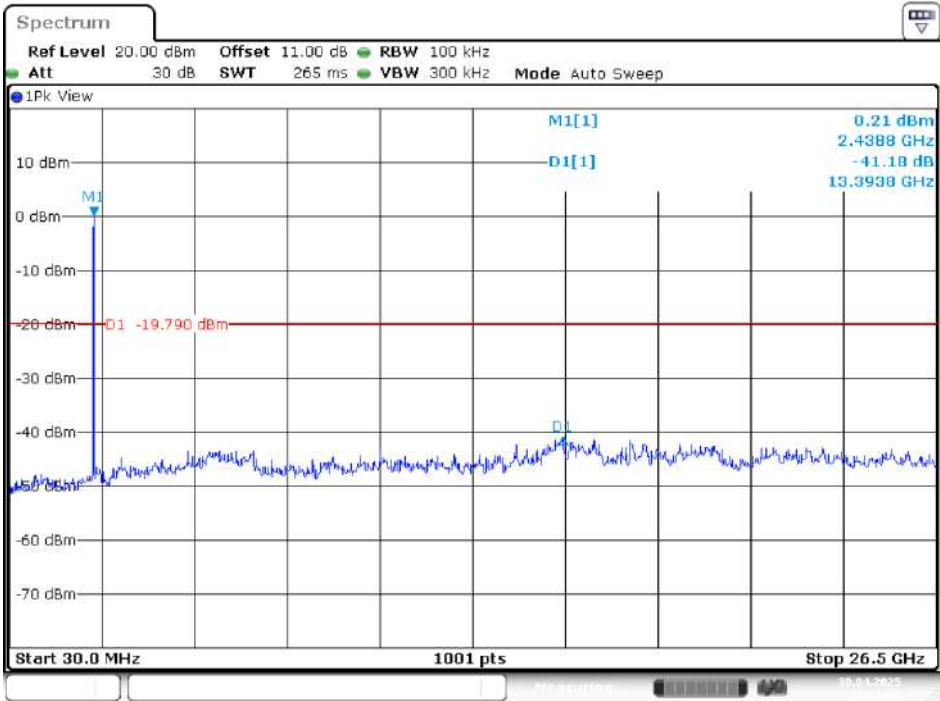
High Channel



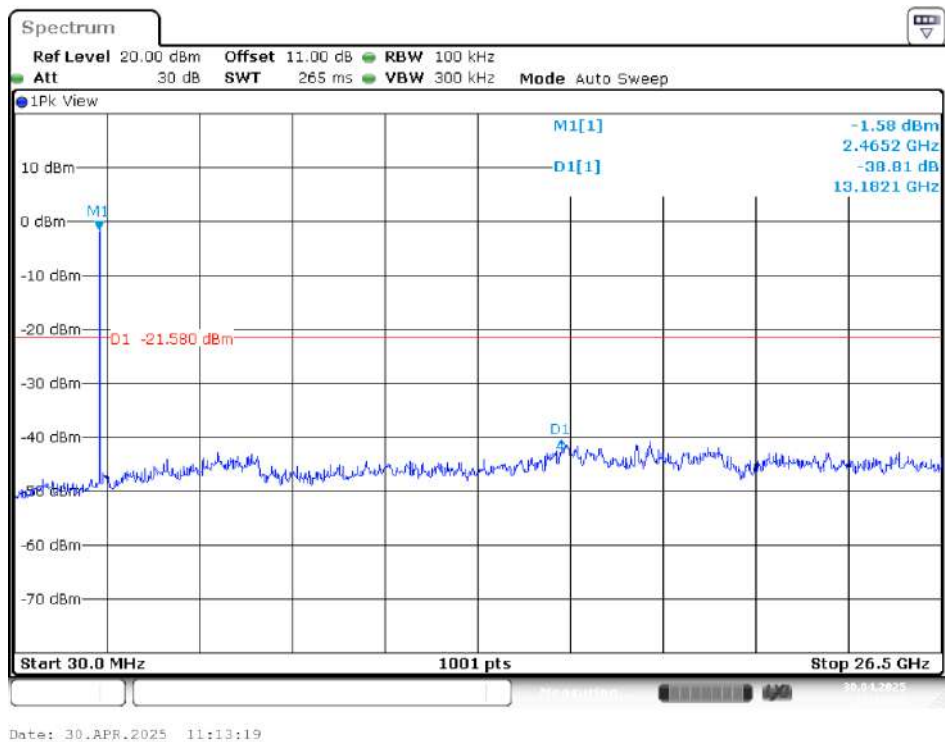
N20 Mode
Low Channel



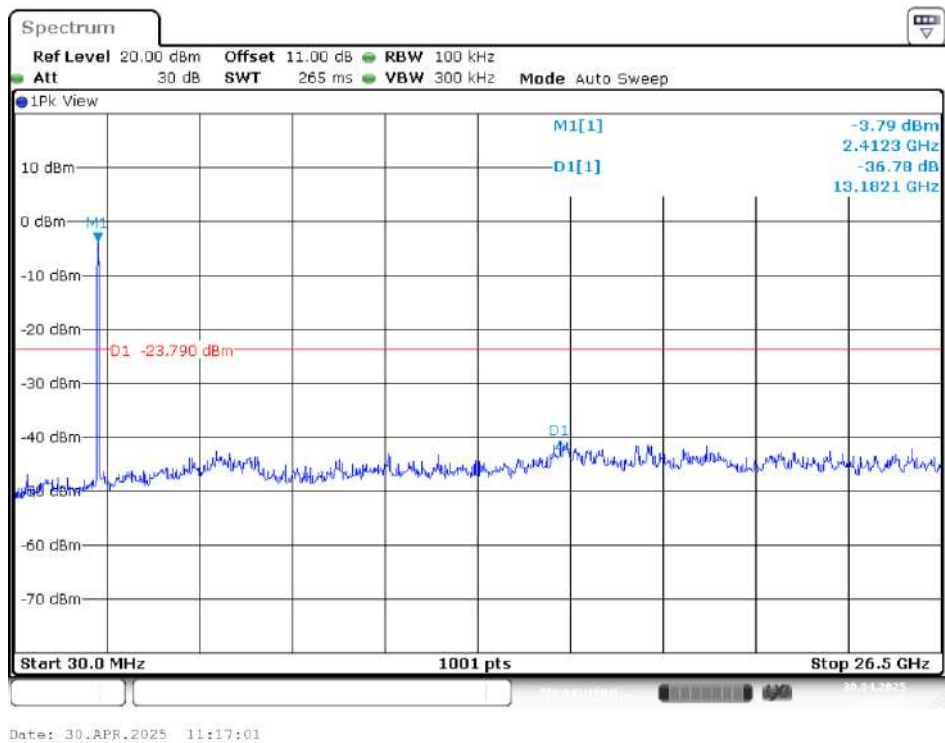
Middle Channel



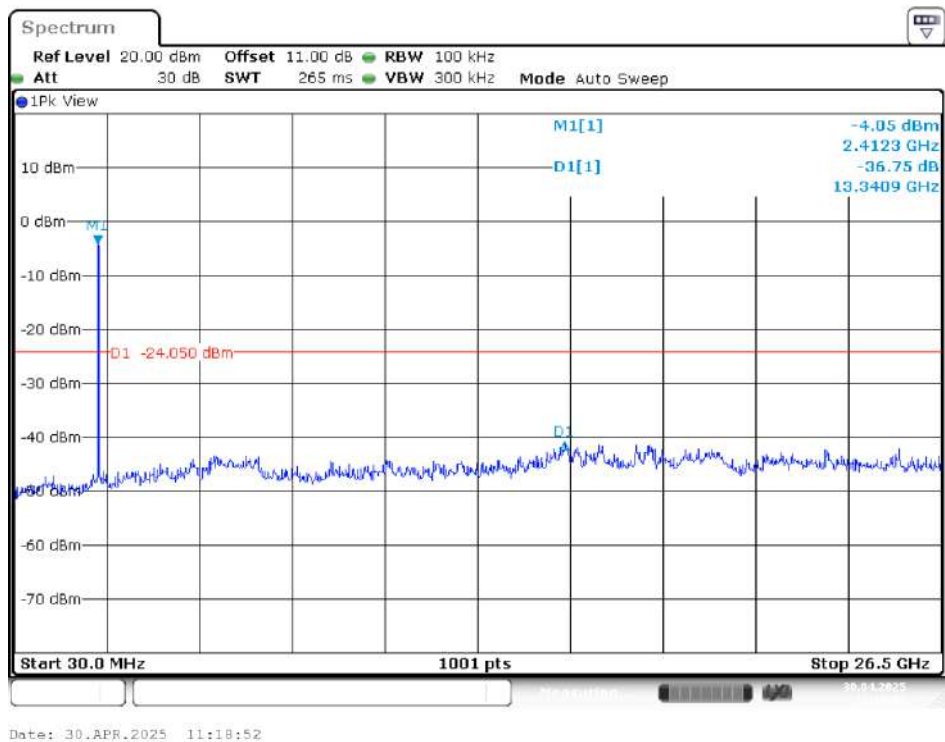
High Channel



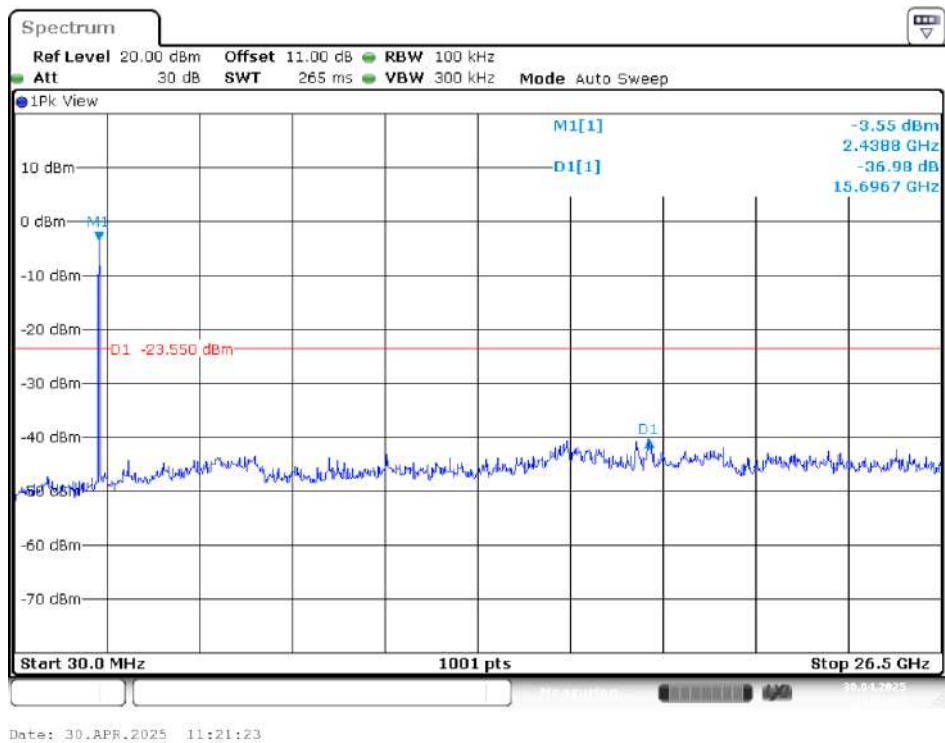
N40 Mode
Low Channel



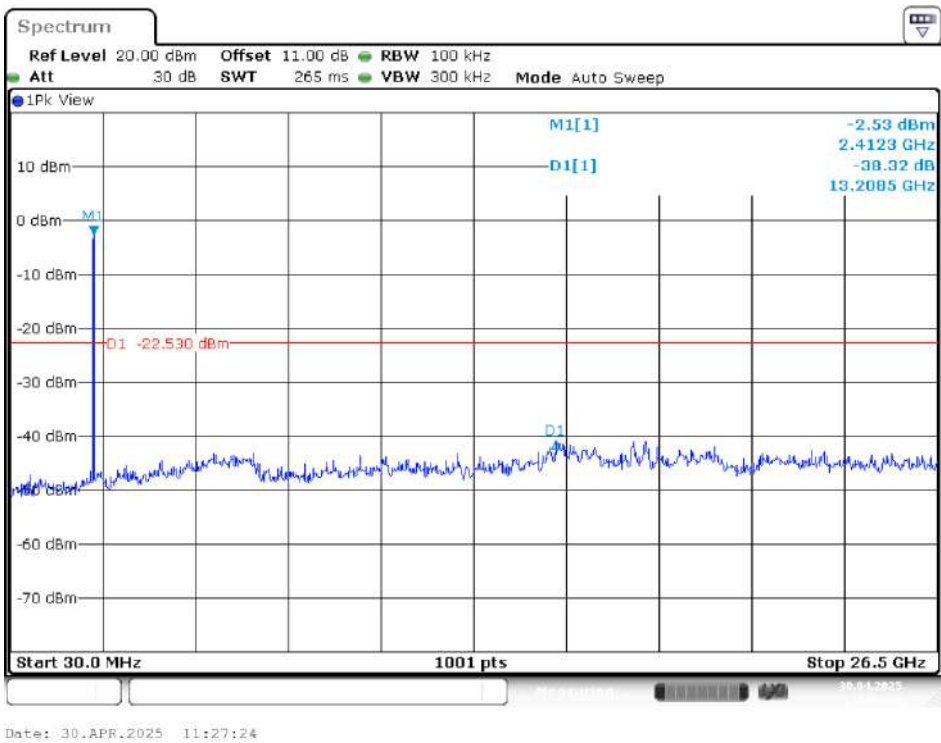
Middle Channel



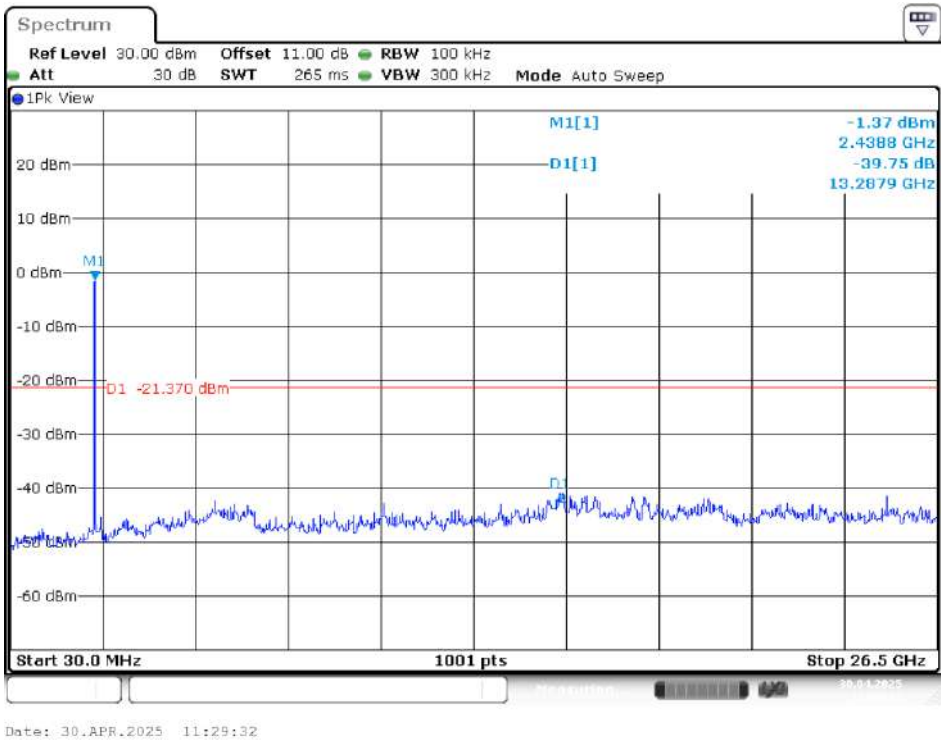
High Channel



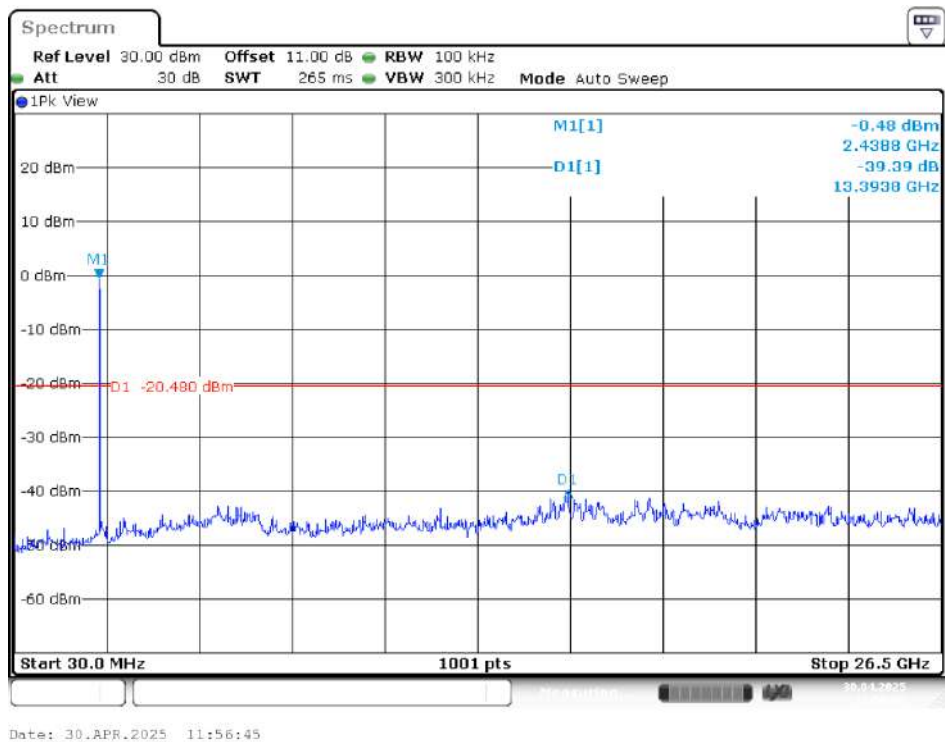
AX20 Mode
Low Channel



Middle Channel

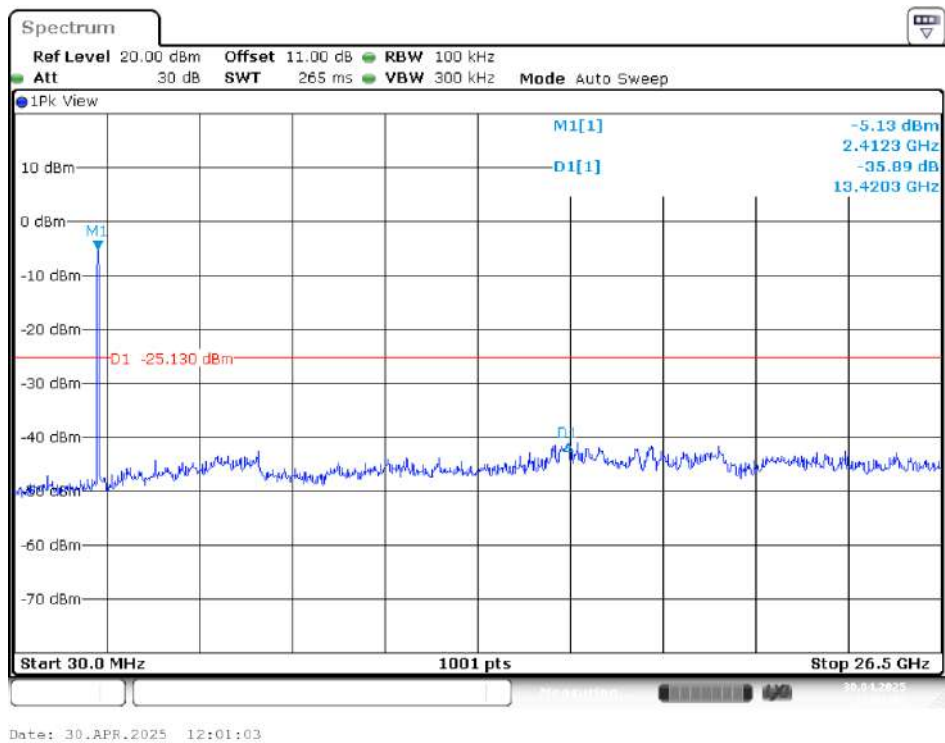


High Channel

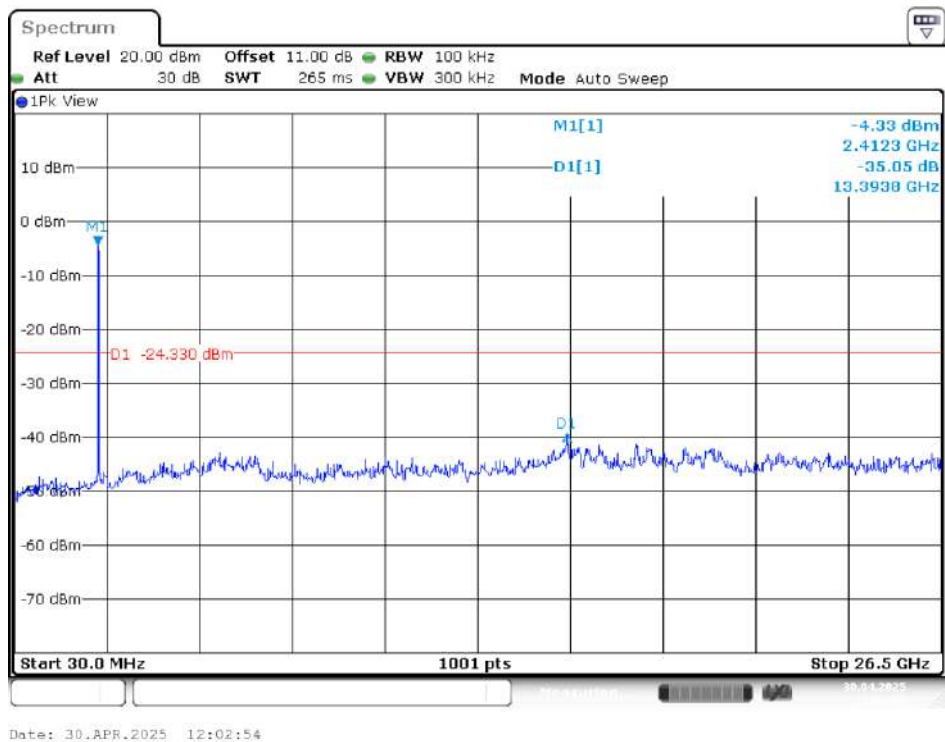


AX40 Mode

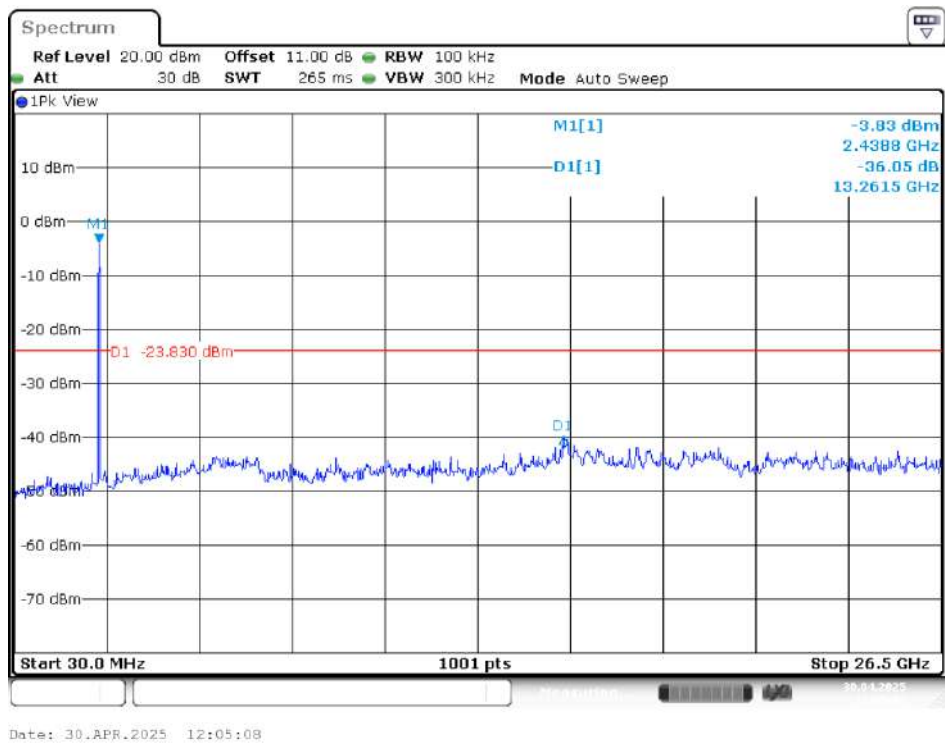
Low Channel



Middle Channel

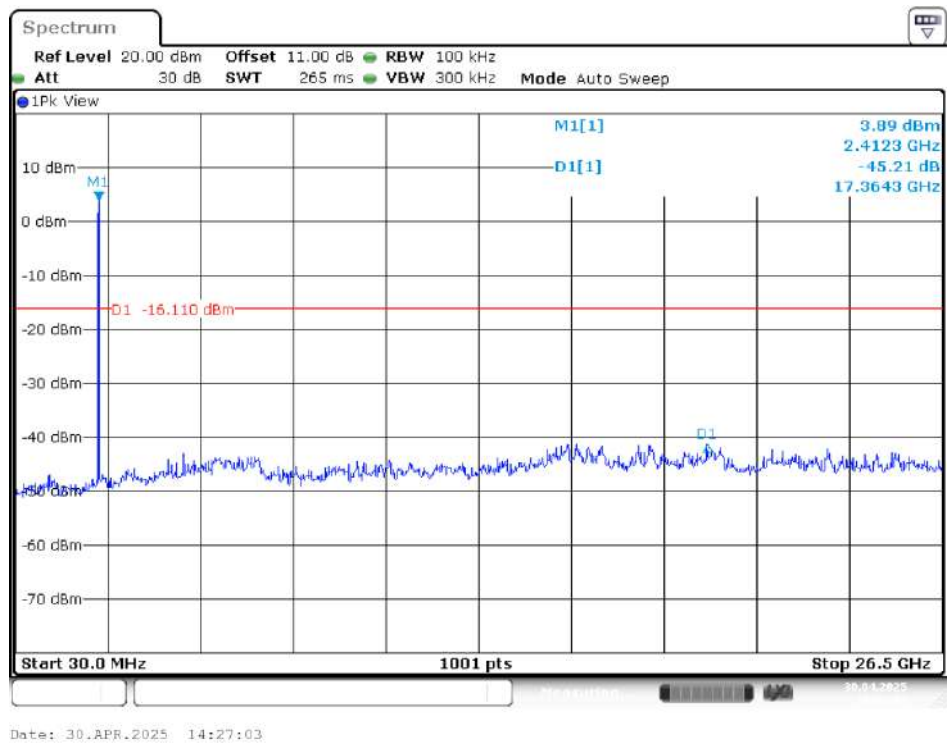


High Channel

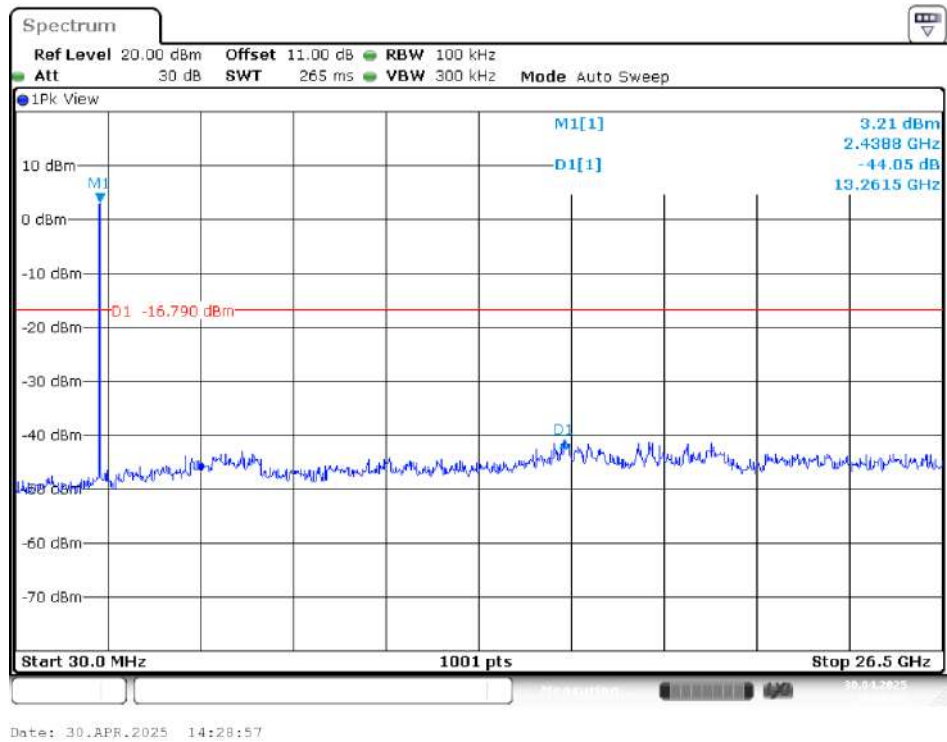


Chain 1

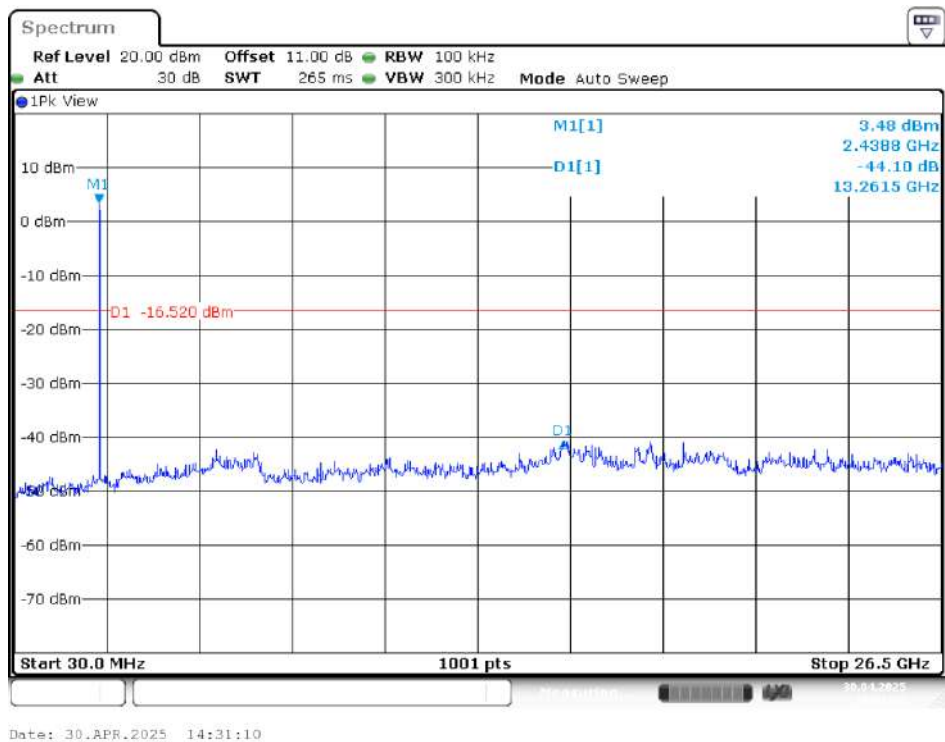
B Mode
Low Channel



Middle Channel

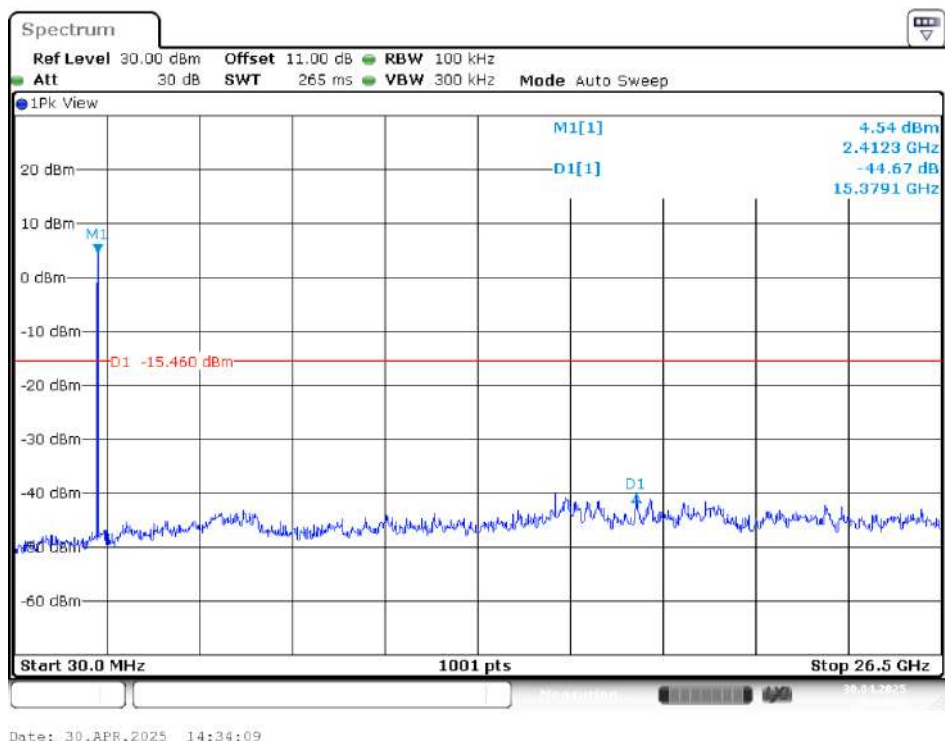


High Channel

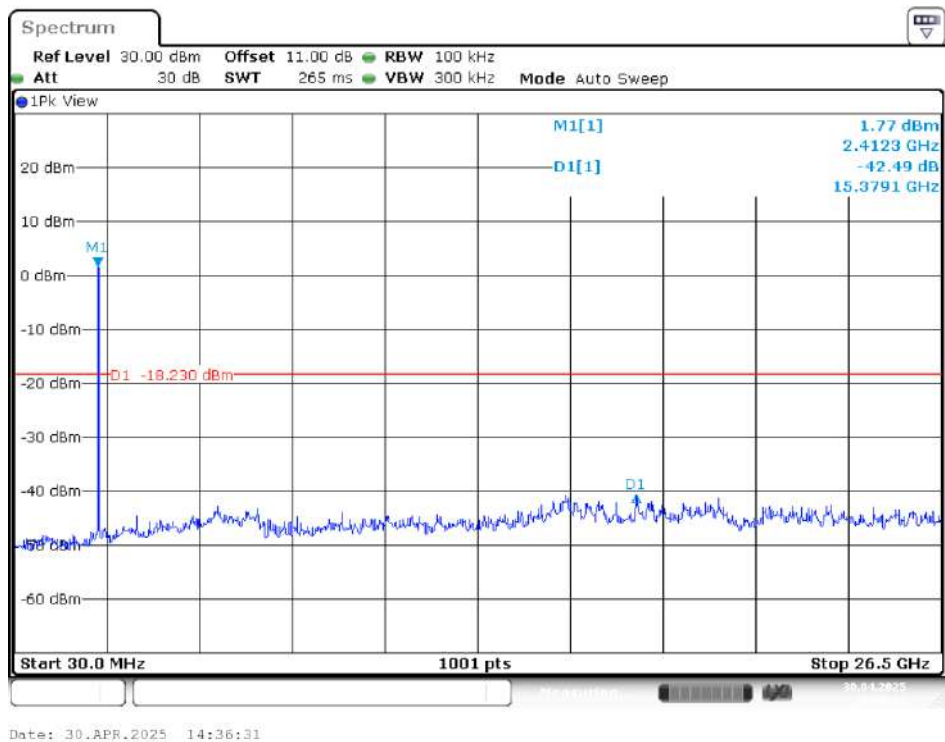


G Mode

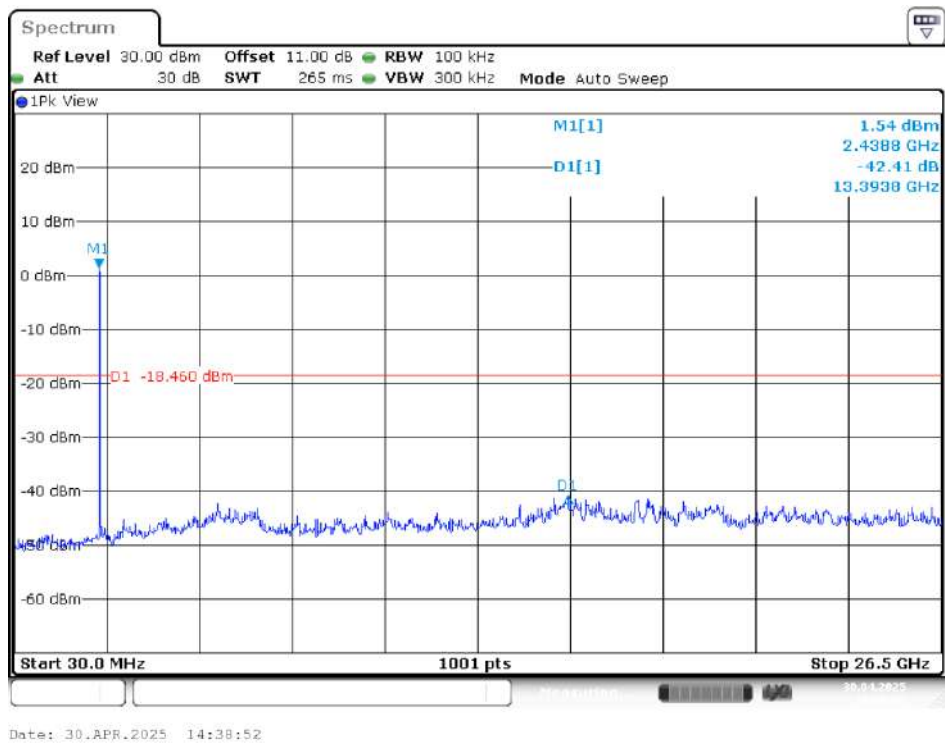
Low Channel



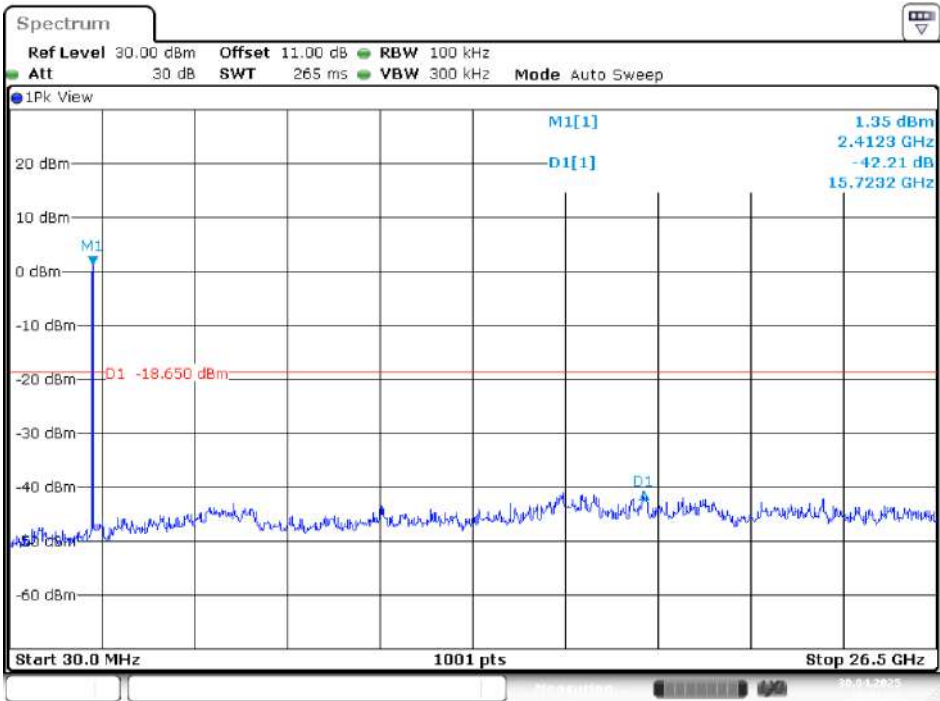
Middle Channel



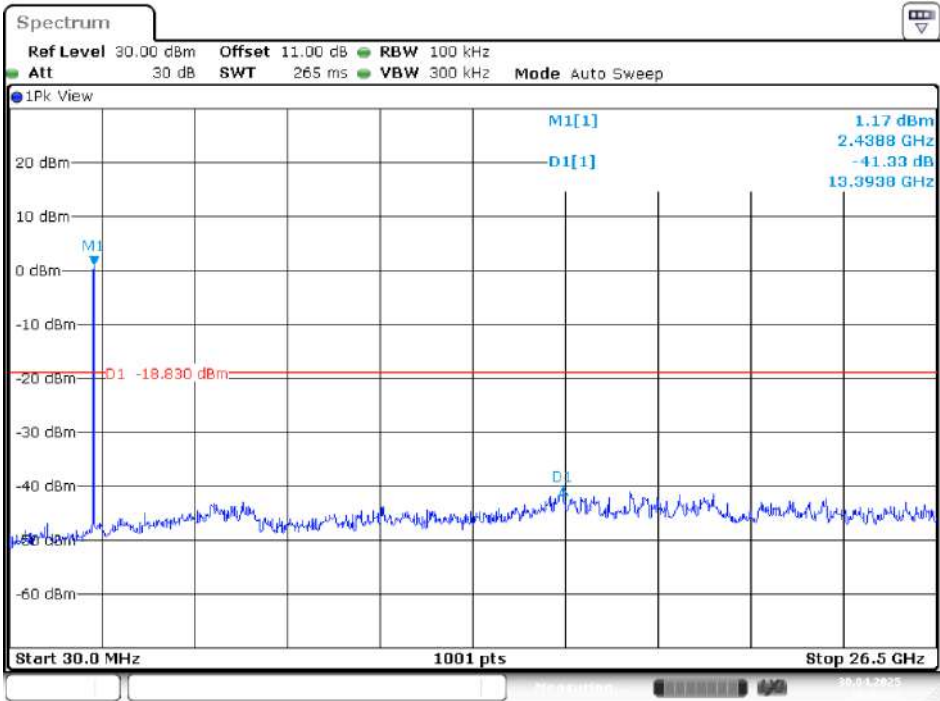
High Channel



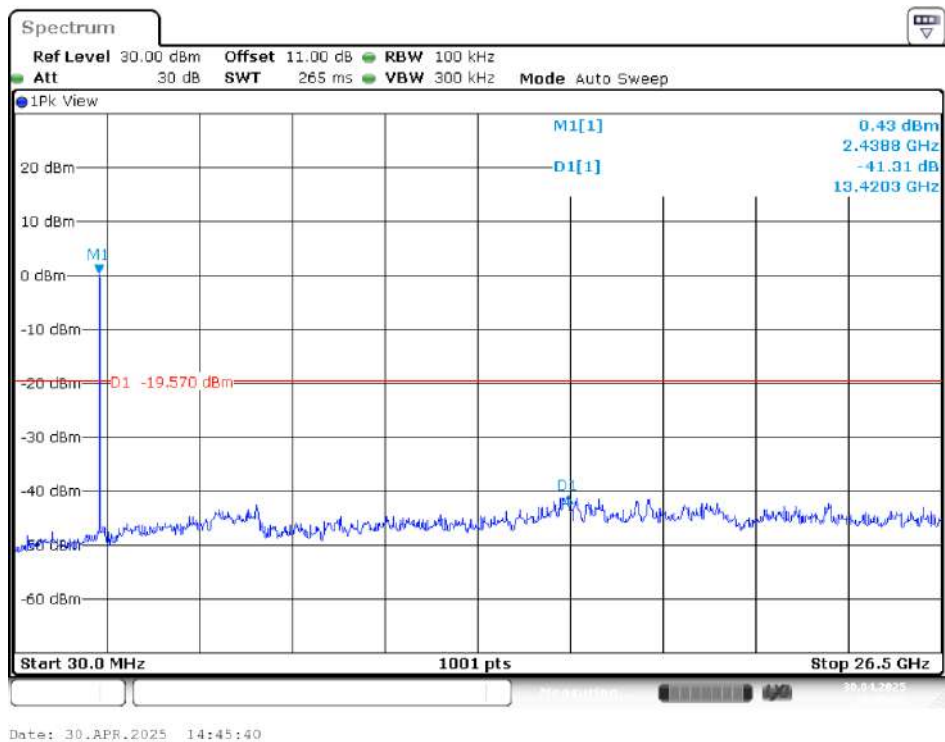
N20 Mode
Low Channel



Middle Channel

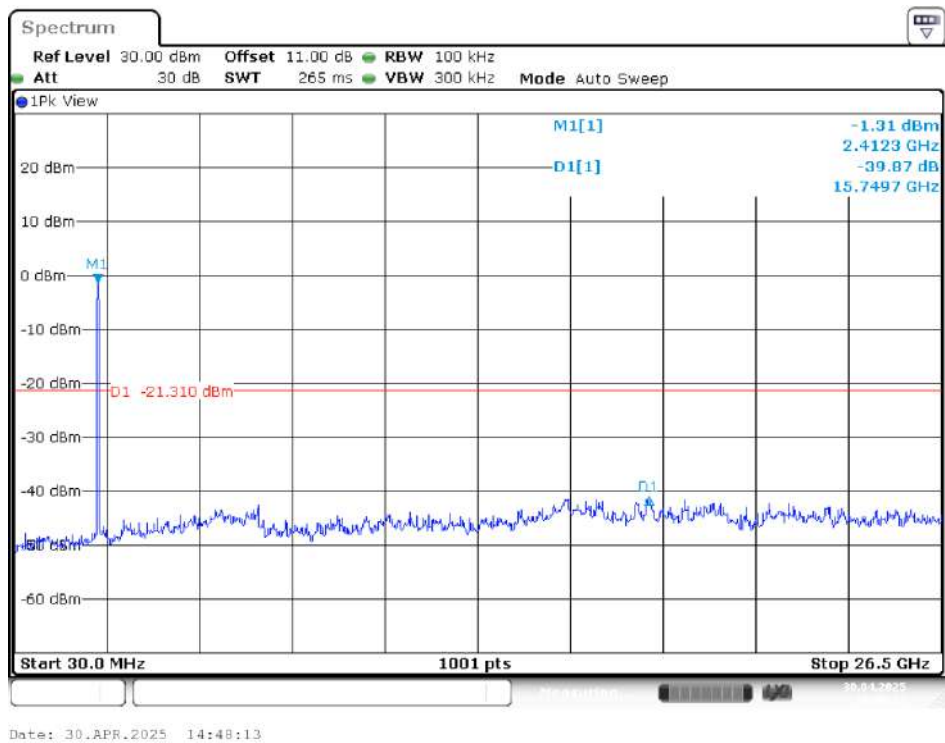


High Channel

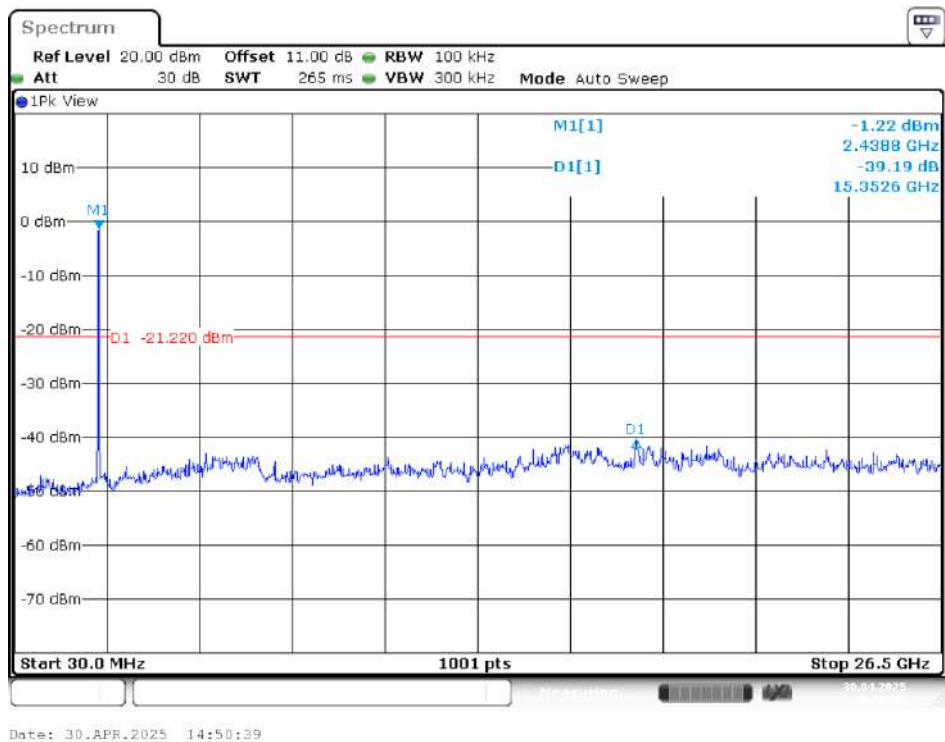


N40 Mode

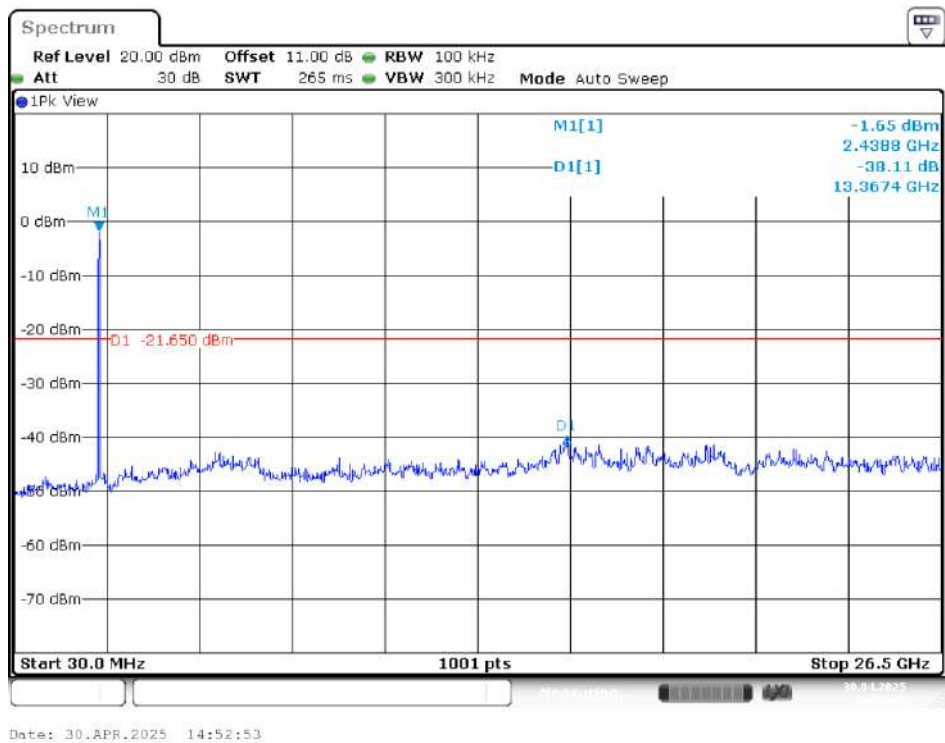
Low Channel



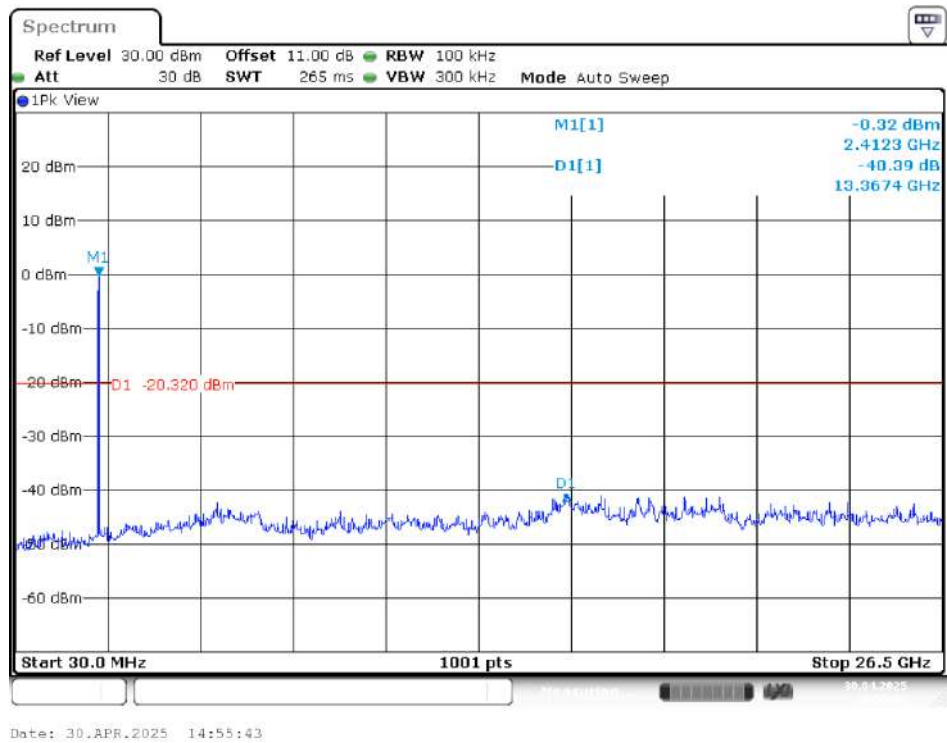
Middle Channel



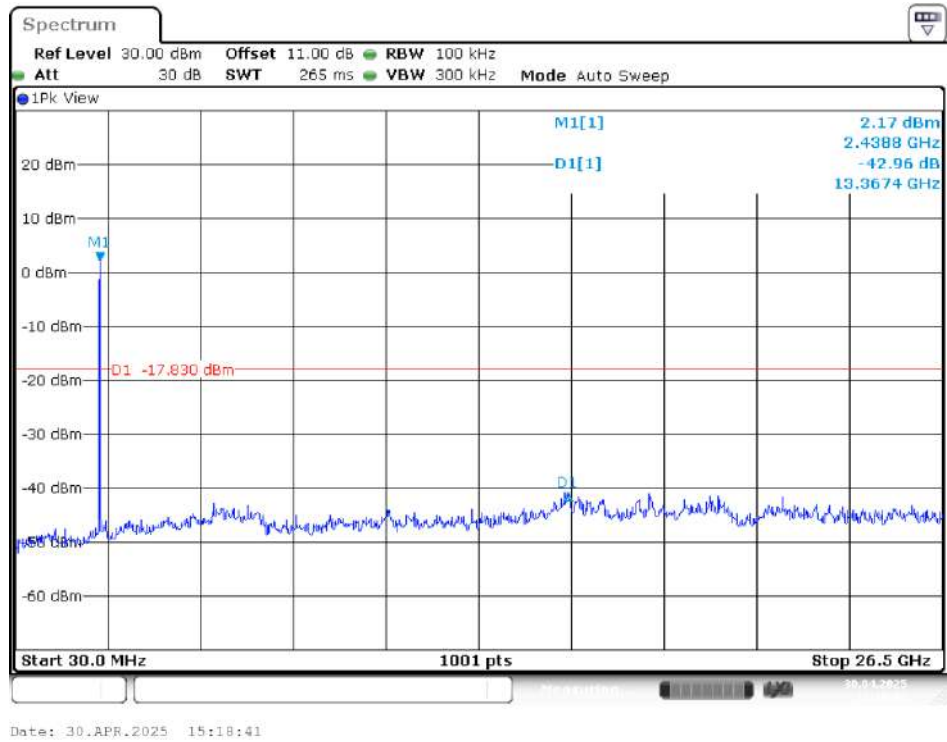
High Channel



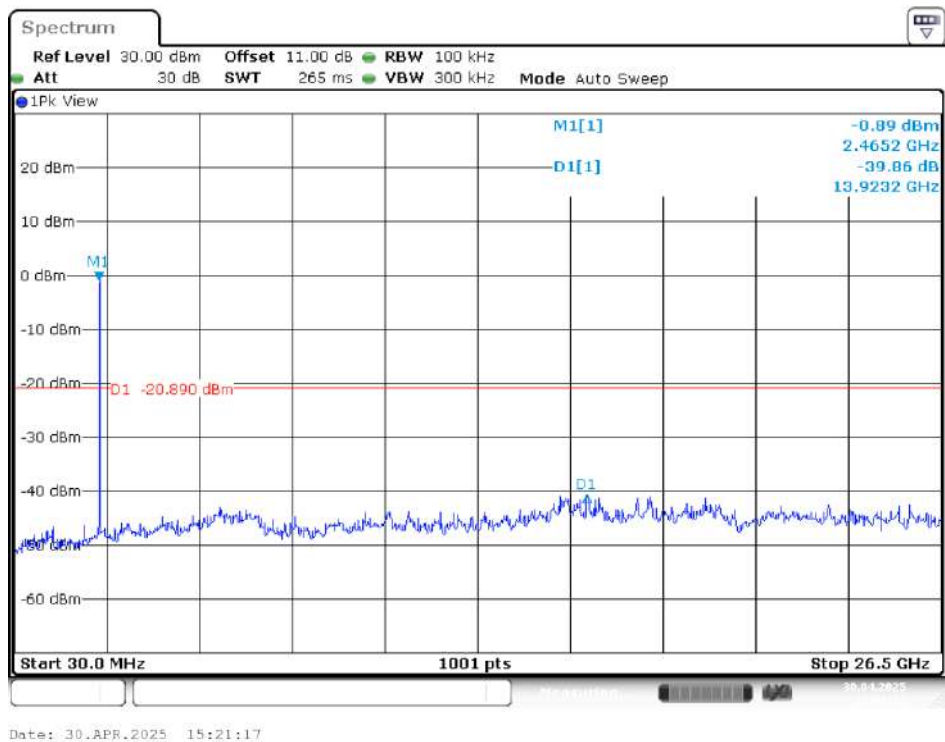
AX20 Mode
Low Channel



Middle Channel

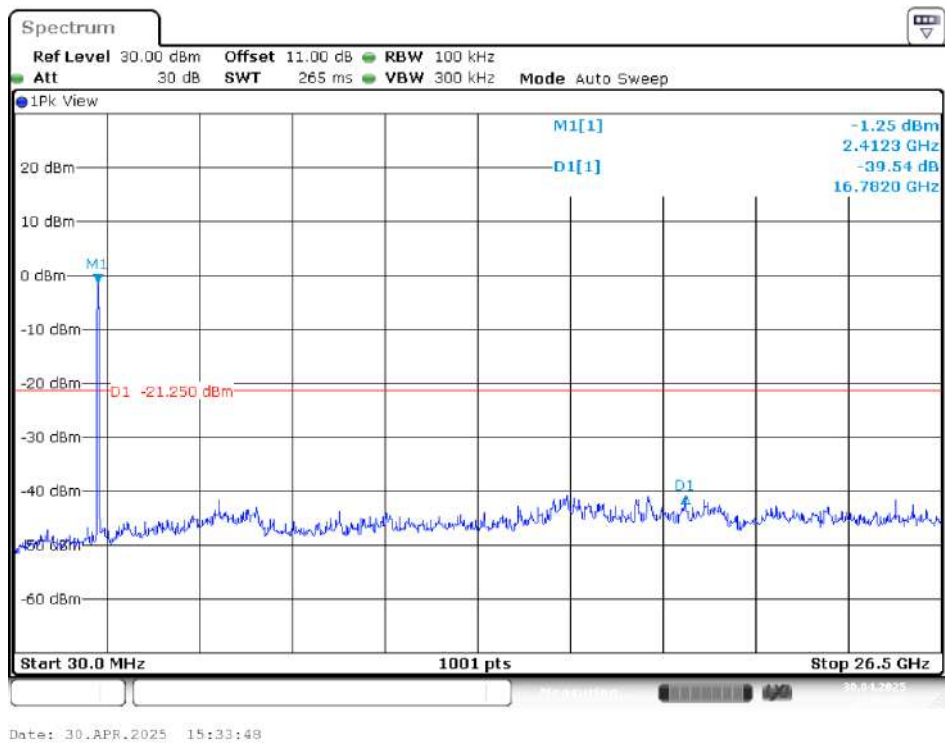


High Channel

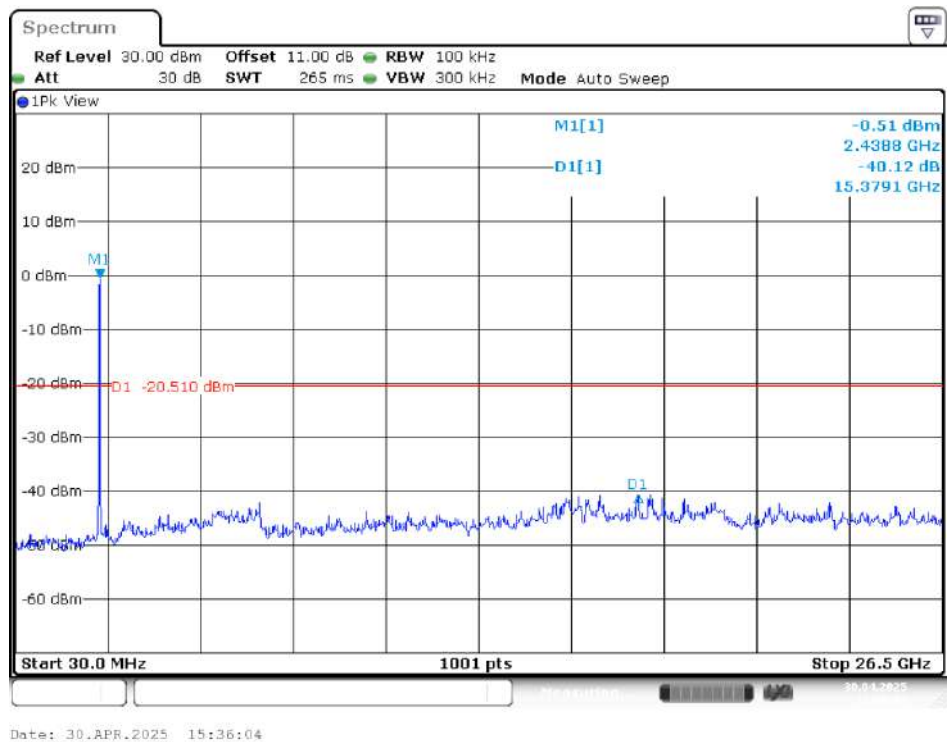


AX40 Mode

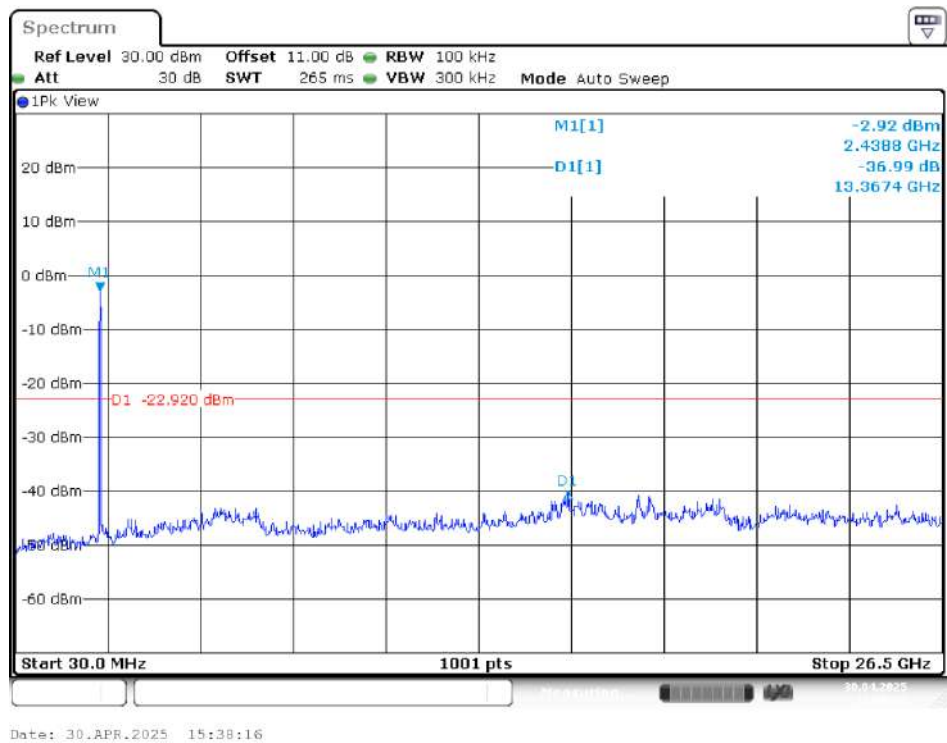
Low Channel



Middle Channel



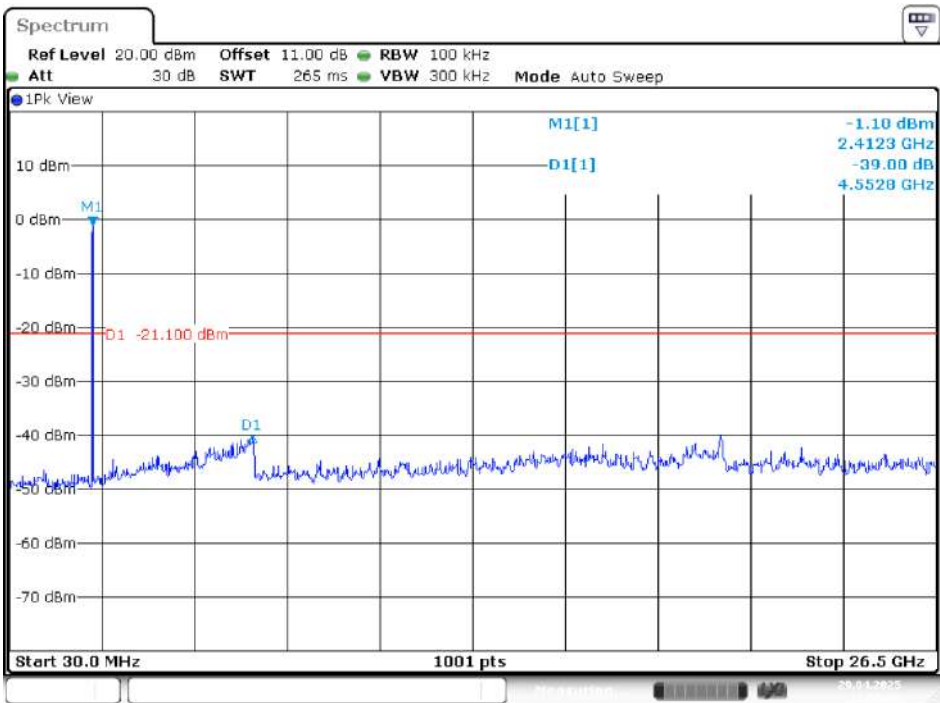
High Channel



Beamforming

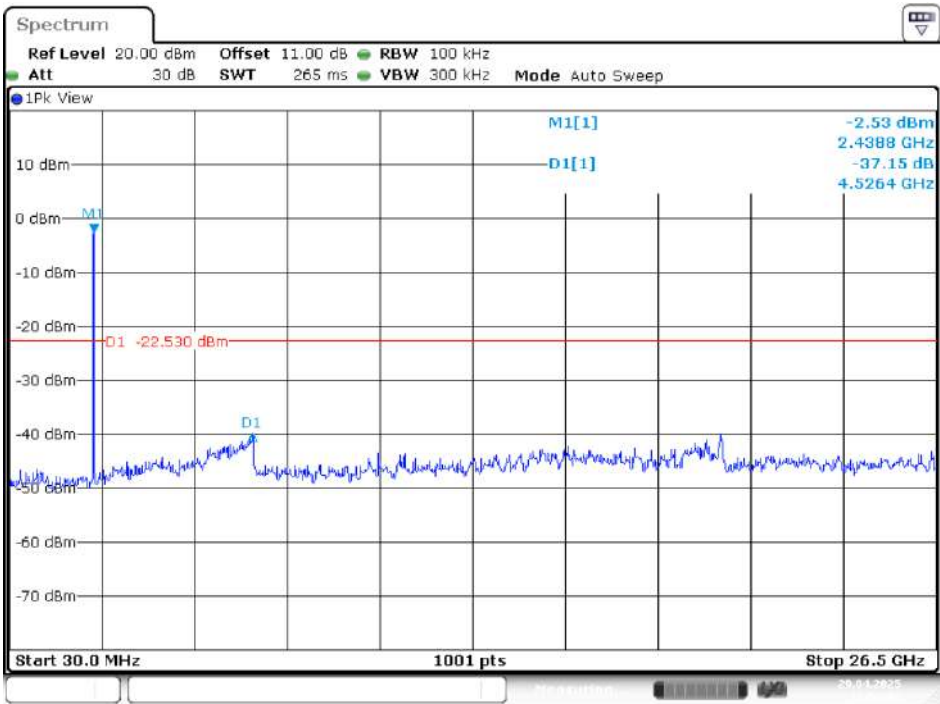
Chain 0

N20 Mode
Low Channel



Date: 29.APR.2025 13:55:39

Middle Channel



Date: 29.APR.2025 13:57:41