

FCC Part 15.407 TEST REPORT

For

Adtran

901 Explorer Boulevard, Huntsville Alabama , United States 35806-2807

FCC ID: HDC-17600078

Report Type: Class II permissive change Report	Product Type: WiFi 6 Router
Report Producer : <u>Coco Lin</u>	
Report Number : <u>RXZ240304007RF01</u>	
Report Date : <u>2024-05-30</u>	
Reviewed By: <u>Andy Shih</u> <i>Andy Shih</i>	
Prepared By: Bay Area Compliance Laboratories Corp. (New Taipei Laboratory) 70, Lane 169, Sec. 2, Datong Road, Xizhi Dist., New Taipei City 221, Taiwan, R.O.C. Tel: +886 (2) 2647 6898 Fax: +886 (2) 2647 6895 www.bacl.com.tw	

Revision History

Revision	No.	Report Number	Issue Date	Description	Author/ Revised by
0.0	RXZ240304007	RXZ240304007RF01	2024-05-30	Class II permissive change Report	Coco Lin

TABLE OF CONTENTS

1	General Information	5
1.1	Product Description for Equipment under Test (EUT).....	5
1.2	Objective.....	6
1.3	Test Methodology	6
1.4	Statement	6
1.5	Measurement Uncertainty.....	7
1.6	Environmental Conditions	7
1.7	Test Facility	7
2	System Test Configuration	8
2.1	Description of Test Configuration	8
2.2	EUT Exercise Software	10
2.3	Test Mode	12
2.4	Equipment Modifications	12
2.5	Support Equipment List and Details.....	12
2.6	External Cable List and Details	13
2.7	Block Diagram of Test Setup	13
2.8	Duty Cycle.....	15
3	Summary of Test Results	20
4	Test Equipment List and Details	21
5	FCC §15.407(f), §1.1307(b)(3) – RF Exposure	22
5.1	Applicable Standard.....	22
5.2	RF Exposure Evaluation Result.....	23
6	FCC §15.203 – Antenna Requirements	24
6.1	Applicable Standard.....	24
6.2	Antenna Information.....	24
7	FCC §15.407(b)(9), §15.207(a) – AC Line Conducted Emissions	25
7.1	Applicable Standard	25
7.2	EUT Setup	25
7.3	EMI Test Receiver Setup	25
7.4	Test Procedure	26
7.5	Corrected Factor & Over Limit Calculation	26
7.6	Test Results.....	27
8	FCC §15.209, §15.205, §15.407(b) – Spurious Emissions	29
8.1	Applicable Standard	29
8.2	EUT Setup	30
8.3	EMI Test Receiver & Spectrum Analyzer Setup.....	32
8.4	Test Procedure	32
8.5	Corrected Factor & Margin Calculation.....	32
8.6	Test Results.....	33
9	FCC §15.407(a) – Emission Bandwidth And Occupied Bandwidth	94
9.1	Applicable Standard	94
9.2	Test Procedure	94
9.3	Test Results.....	95

10 FCC §15.407(a) – Maximum Output Power..... 309

10.1 Applicable Standard..... 309

10.2 Test Procedure 309

10.3 Test Results..... 310

11 FCC §15.407(a) – Power Spectral Density..... 314

11.1 Applicable Standard..... 314

11.2 Test Procedure 314

11.3 Test Results..... 315

1 General Information

1.1 Product Description for Equipment under Test (EUT)

Applicant	Adtran
	901 Explorer Boulevard, Huntsville Alabama , United States 35806-2807
Brand(Trade) Name	Adtran
Product (Equipment)	WiFi 6 Router
Main Model Name	SDG-8610YYYYYYY(Y can be 0-9, a-z, A-Z, blank, “+” or “-” or “#”)
Part Number	17600078FYYYYYYYY(Y can be 0-9, a-z, A-Z, blank, “+” or “-” or “#”)
Model Discrepancy	The major electrical and mechanical constructions of series models are identical to the basic model, except different Market segmentation. The model, SDG-8610 is the testing sample, and the final test data are shown on this test report.
Frequency Range	5250-5350 MHz , 5470-5725 MHz
Maximum Conducted Average Output Power	Non Beamforming: 5250-5350 MHz: 21.99 dBm 5470-5725 MHz: 21.88 dBm Beamforming: 5250-5350 MHz: 17.32 dBm 5470-5725 MHz: 17.12 dBm
Modulation Technique	OFDM / OFDMA
Power Operation (Voltage Range)	Adapter I/P: 100-240V, 50/60Hz, 0.7A O/P: DC 12V, 1.5A
Received Date	2024/01/24
Date of Test	2024/03/08 ~ 2024/05/29

*All measurement and test data in this report was gathered from production sample serial number: RXZ240304007-1(Assigned by BACL, New Taipei Laboratory).

1.2 Objective

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

Test Purpose:

This is Class II permissive Change Test for FCC ID: HDC-17600078, the changes was below, which was provided by Applicant:

1. Enabled 5G WiFi 5250-5350MHz and 5470-5725 MHz band by software

This report is only for the new enabled 5250-5350MHz and 5470-5725 MHz band.

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices. KDB 789033 D02 General UNII Test Procedures New Rules v02r01

1.4 Statement

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

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

Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

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

The determination of the test results does not require consideration of the uncertainty of the measurement, unless the assessment is required by customer agreement, regulation or standard document specification.

Bay Area Compliance Laboratories Corp. (New Taipei Laboratory) is not responsible for the authenticity of the information provided by the applicant that affects the test results.

1.5 Measurement Uncertainty

Parameter		Uncertainty
AC Mains		+/- 3.02 dB
RF output power, conducted		+/- 0.57 dB
Power Spectral Density, conducted		+/- 0.63 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 (%)	ATM Pressure (hPa)	Test Engineer
AC Line Conducted Emissions	2024/03/12	21.6	51	1010	Jing Chang
Radiation Spurious Emissions	2024/3/8~2024/3/22	18.2~21.6	47~68	1010	Aaron Pan
Emission Bandwidth	2024/3/20~ 2024/3/25	20.7~24.8	50~58	1010	Jing Chang
Maximum Output Power	2024/3/20~ 2024/3/25	20.7~24.8	50~58	1010	Jing Chang
Power Spectral Density	2024/3/25~2024/5/29	24.8~25.5	51~58	1010	Jing Chang

1.7 Test Facility

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

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

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

2 System Test Configuration

2.1 Description of Test Configuration

The system supports 802.11a/n ht20/n ht40/ac vht20/ac vht40/ac vht80/ac vht160/ax he20/ax he40/ax he80/ax he160 mode.

Since the 802.11n ht20/n ht40 parameters are the same as 802.11ac vht20 and ac vht40, 802.11n ht20/n ht40 is reduced.

For 802.11n/ac/ax mode, MIMO mode supports beamforming.

For 5250 ~ 5350MHz

4 channels are provided for 802.11a, 802.11n HT20, 802.11ac VHT20, 802.11ax HE20:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	60	5300
56	5280	64	5320

2 channels are provided for 802.11n HT40, 802.11ac VHT40, 802.11ax HE40:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
54	5270	62	5310

1 channel is provided for 802.11ac VHT80, 802.11ax HE80:

Channel	Frequency (MHz)
58	5290

802.11a/n20/ac20/ax20 mode Channel 52, 60, 64 were tested.

802.11n40/ac40/ax40 mode Channel 54, 62 were tested.

802.11ac80/ax80 mode Channel 58 was tested.

For 5470 ~ 5725MHz

11 channels are provided for 802.11a, 802.11n HT20, 802.11ac VHT20, 802.11ax HE20:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	124	5620
104	5520	128	5640
108	5540	132	5660
112	5560	136	5680
116	5580	140	5700
120	5600	/	/

5 channels are provided for 802.11n HT40, 802.11ac VHT40, 802.11ax HE40:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
102	5510	126	5630
110	5550	134	5670
118	5590	/	/

2 channels are provided for 802.11ac VHT80, 802.11ax HE80:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
106	5530	122	5610

802.11a/n20/ac20/ax20 mode Channel 100, 116, 140 were tested.

802.11n40/ac40/ax40 mode Channel 102, 110, 134 were tested.

802.11ac80/ax80 mode Channel 106, 122 was tested.

For Bandwidth 160MHz:

2 channel is provided for 802.11ac VHT160, 802.11ax HE160:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
50	5250	114	5570

802.11ac160/ax160 mode Channel 50 , 114 was tested.

2.2 EUT Exercise Software

The software was used “QATool_UIv2.78_DLLv6.83_ap_2021.11.05_Customer”.

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

Non Beamforming:

UNII Band	Mode MIMO(CDD)	Channel	Frequency (MHz)	Power setting MIMO(CDD)			
				Chain 0	Chain 1	Chain 2	
UNII-2A	802.11a	52	5260	12.5	12.5	12.5	
		60	5300	13	13	13	
		64	5320	13	13	13	
UNII-2C		100	5500	14	14	14	
		116	5580	13.5	13.5	13.5	
		140	5700	13	13	13	
UNII-2A	802.11n HT20 / ac VHT20	52	5260	14.5	14.5	14.5	
		60	5300	14.5	14.5	14.5	
		64	5320	14.5	14.5	14.5	
UNII-2C		100	5500	15.5	15.5	15.5	
		116	5580	15	15	15	
		140	5700	14.5	14.5	14.5	
UNII-2A	802.11n HT40 / ac VHT40	54	5270	17	17	17	
		62	5310	16	16	16	
		UNII-2C	102	5510	17.5	17.5	17.5
110			5550	18	18	18	
134			5670	17.5	17.5	17.5	
UNII-2A		802.11ac VHT80	58	5290	11.5	11.5	11.5
	UNII-2C		106	5530	14	14	14
			122	5610	18	18	18
UNII-2A	802.11ax HE20	52	5260	14	14	14	
		60	5300	14.5	14.5	14.5	
		64	5320	14.5	14.5	14.5	
UNII-2C		100	5500	15	15	15	
		116	5580	14.5	14.5	14.5	
		140	5700	14.5	14.5	14.5	
UNII-2A	802.11ax HE40	54	5270	16.5	16.5	16.5	
		62	5310	15.5	15.5	15.5	
		UNII-2C	102	5510	17	17	17
110			5550	17	17	17	
134			5670	17	17	17	

UNII-2A	802.11ax HE80	58	5290	13.5	13.5	13.5
UNII-2C		106	5530	15.5	15.5	15.5
		122	5610	18	18	18
UNII-2A	802.11ac VHT160	50	5250	13	13	13
UNII-2C		114	5570	13.5	13.5	13.5
UNII-2A	802.11ax HE160	50	5250	16	16	16
UNII-2C		114	5570	14.5	14.5	14.5

Beamforming:

UNII Band	Mode MIMO	Channel	Frequency (MHz)	Power setting MIMO		
				Chain 0	Chain 1	Chain 2
UNII-2A	802.11n HT20 / ac VHT20	52	5260	24	24	24
		60	5300	25	25	25
		64	5320	25	25	25
UNII-2C		100	5500	26	26	26
		116	5580	26	26	26
		140	5700	26	26	26
UNII-2A	802.11n HT40 / ac VHT40	54	5270	24	24	24
UNII-2C		62	5310	25	25	25
		102	5510	26	26	26
		110	5550	26	26	26
		134	5670	26	26	26
UNII-2A	802.11ac VHT80	58	5290	27	27	27
UNII-2C		106	5530	28	28	28
		122	5610	27	27	27
UNII-2A	802.11ax HE20	52	5260	23	23	23
UNII-2C		60	5300	24	24	24
		64	5320	24	24	24
		100	5500	25	25	25
		116	5580	24	24	24
		140	5700	25	25	25
UNII-2A	802.11ax HE40	54	5270	23	23	23
UNII-2C		62	5310	24	24	24
		102	5510	25	25	25
		110	5550	24	24	24
		134	5670	25	25	25

UNII-2A	802.11ax HE80	58	5290	26	26	26
UNII-2C		106	5530	27	27	27
		122	5610	27	27	27
UNII-2A	802.11ac VHT160	50	5250	27	27	27
UNII-2C		114	5570	32	32	32
UNII-2A	802.11ax HE160	50	5250	27	27	27
UNII-2C		114	5570	33	33	33

The device support SISO and MIMO (CDD).

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/ac/ax mode, the MIMO mode support beamforming.

The worst case data rates are as follows:

802.11a Mode: 6Mbps

802.11ac VHT20 Mode: MCS0

802.11ac VHT40 Mode: MCS0

802.11ac VHT80 Mode: MCS0

802.11ac VHT160 Mode: MCS0

802.11ax HE20 Mode: MCS0

802.11ax HE40 Mode: MCS0

802.11ax HE80 Mode: MCS0

802.11ax HE160 Mode: MCS0

2.3 Test Mode

Full System (model: SDG-8610) for all test item.

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

2.4 Equipment Modifications

No modification was made to the EUT.

2.5 Support Equipment List and Details

Description	Manufacturer	Model Number	Serial Number
NB	DELL	E6410	F4NYJM1
NB	DELL	E6410	7ODSQM1
Adapter	KLEC	KL-WA120150-H1	N/A

2.6 External Cable List and Details

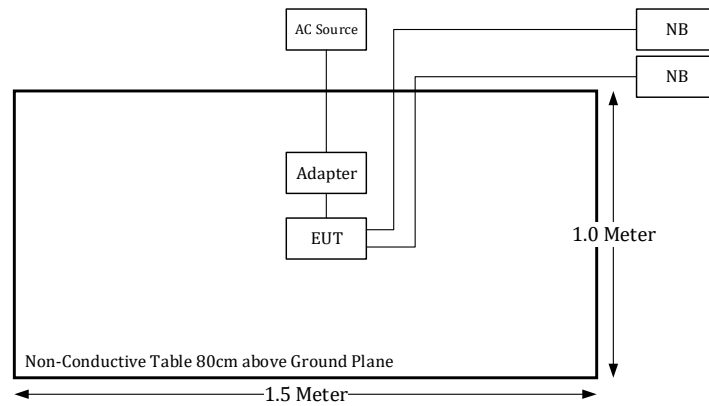
Description	Manufacturer	Cable length
RJ-45 Cable	BACL	8m
RJ-45 Cable	BACL	8m

2.7 Block Diagram of Test Setup

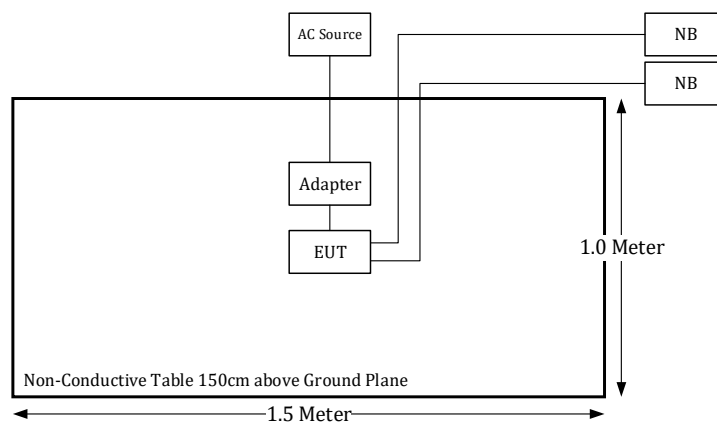
See test photographs attached in setup photos for the actual connections between EUT and support equipment.

Radiation:

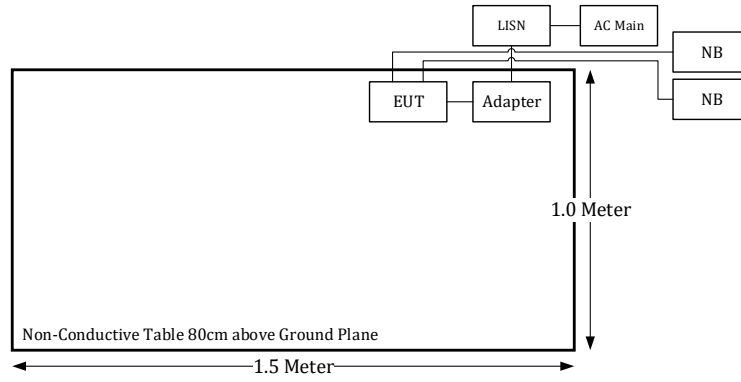
Below 1GHz



Above 1GHz:

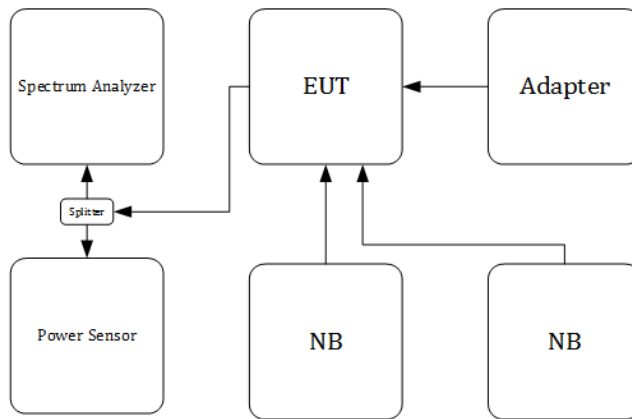


Conduction:



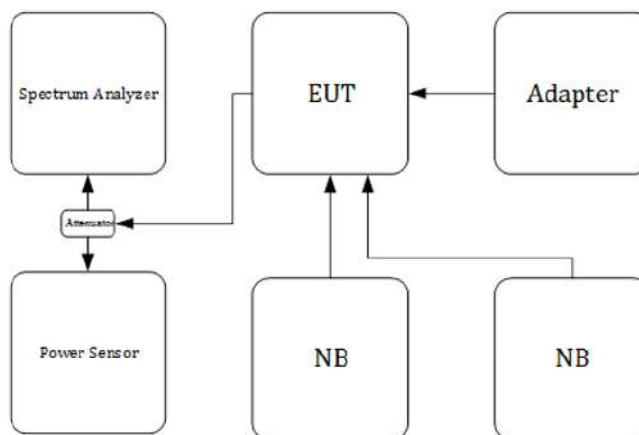
Conducted 1:

Offset: 8dB (Splitter+Cable)



Conducted 1:

Offset: 11dB (Attenuator +Cable)



2.8 Duty Cycle

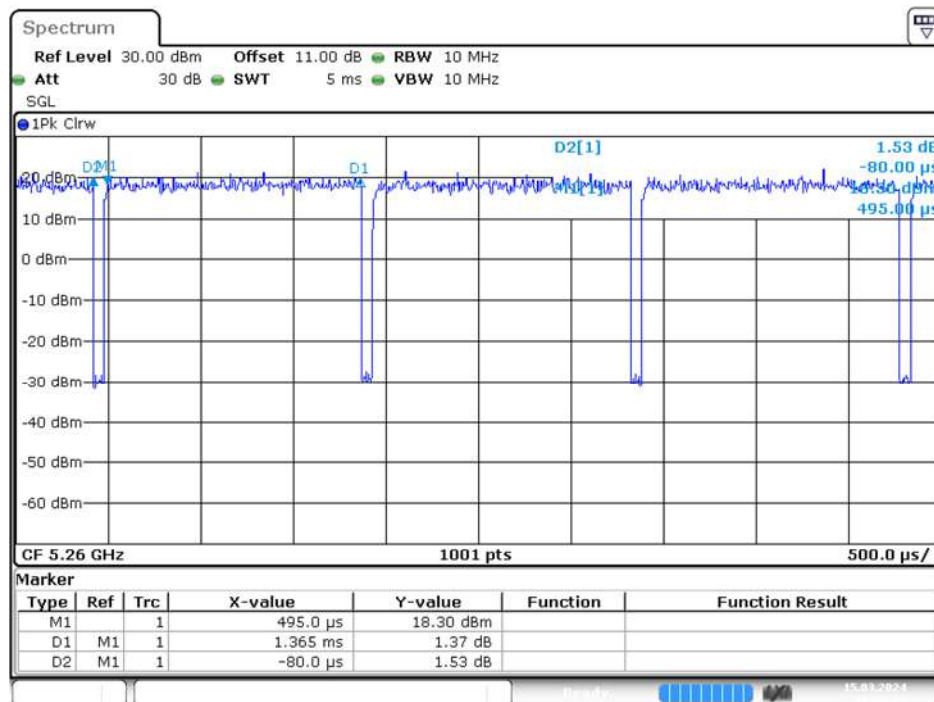
The duty cycle as below:

Radio Mode	On Time (ms)	Off Time (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T (kHz)	VBW Setting (kHz)
802.11a	1.365	0.08	94	0.27	0.73	1
802.11ac 20	1.285	0.095	93	0.32	0.78	1
802.11ac 40	0.654	0.058	92	0.36	1.53	2
802.11ac 80	0.324	0.057	85	0.71	3.09	5
802.11ac 160	0.184	0.057	76	1.19	5.43	10
802.11ax 20	0.31	0.057	84	0.76	3.23	5
802.11ax 40	0.312	0.061	84	0.76	3.21	5
802.11ax 80	0.295	0.059	83	0.81	3.39	5
802.11ax 160	0.296	0.056	84	0.76	3.38	5

Note: Duty Cycle Correction Factor = 10*log(1/duty cycle)

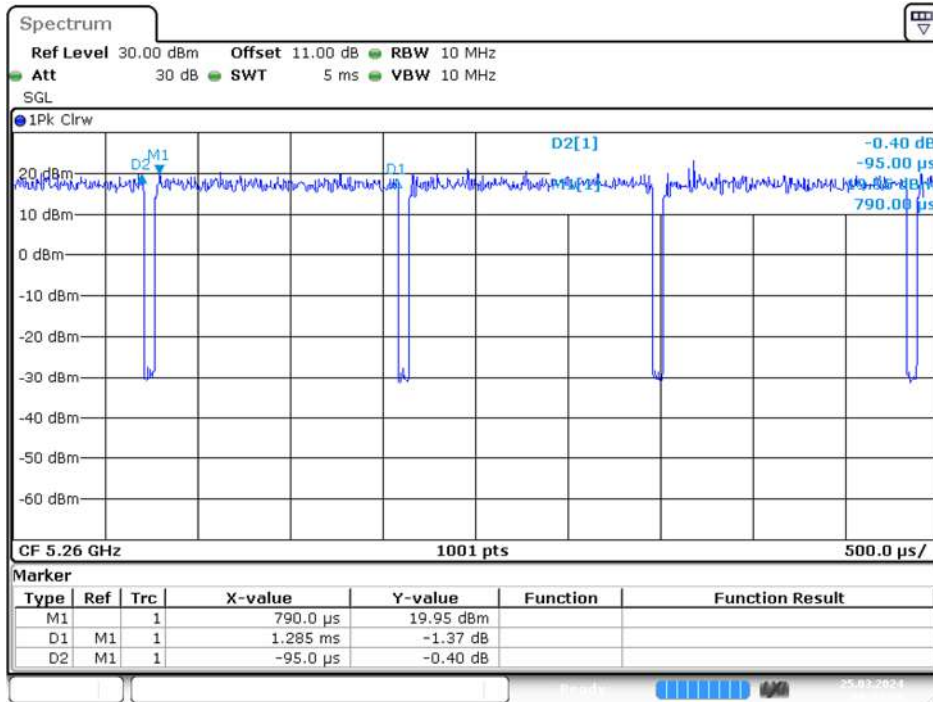
Please refer to the following plots.

802.11a Mode

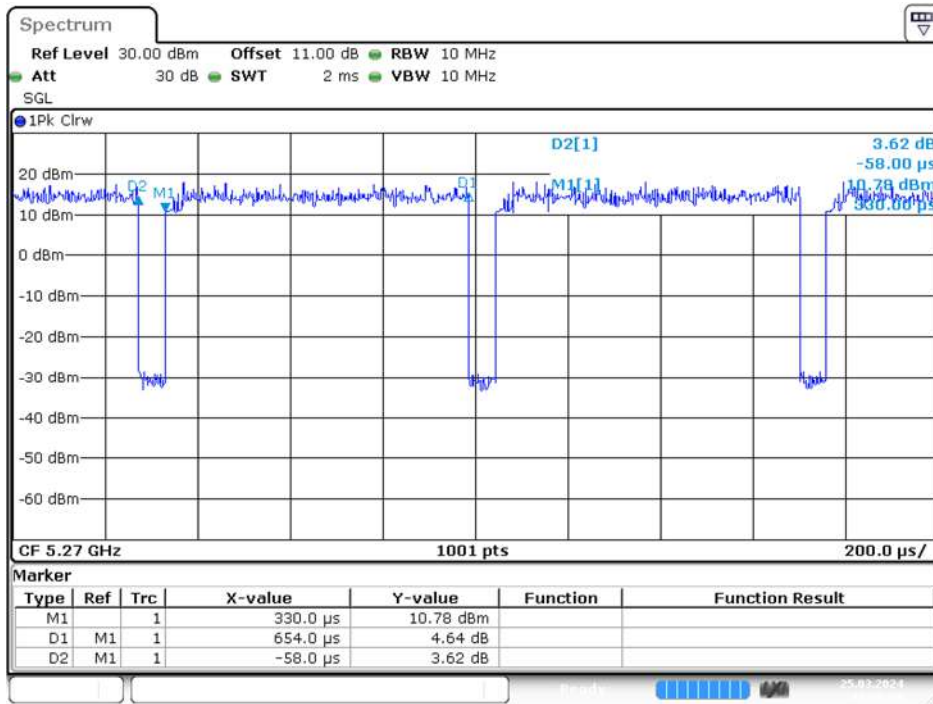


Date: 15.MAR.2024 10:33:33

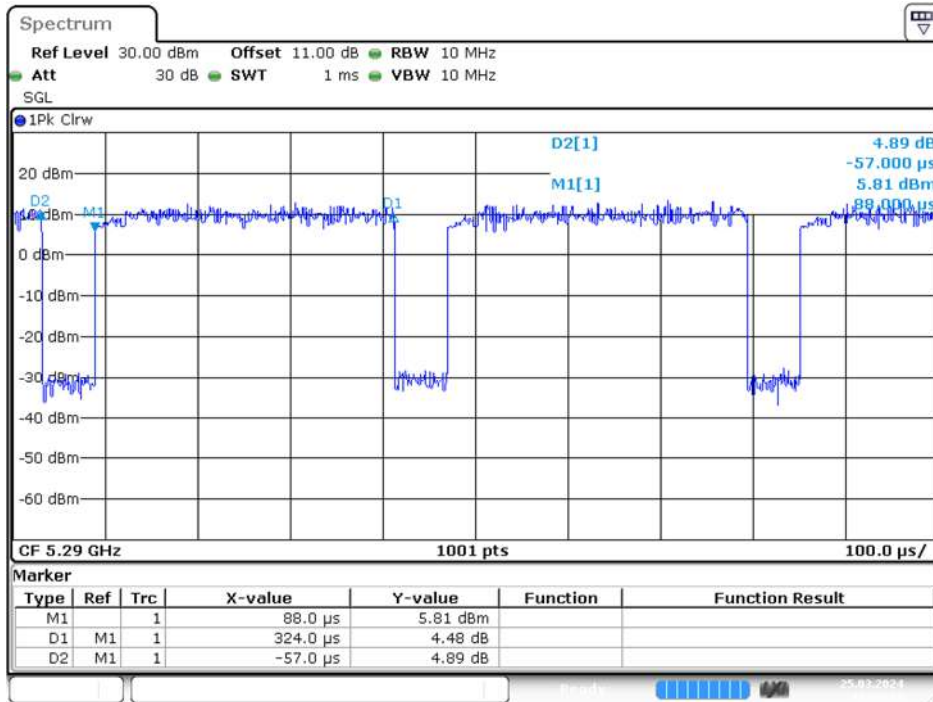
802.11ac 20 Mode



802.11ac 40 Mode

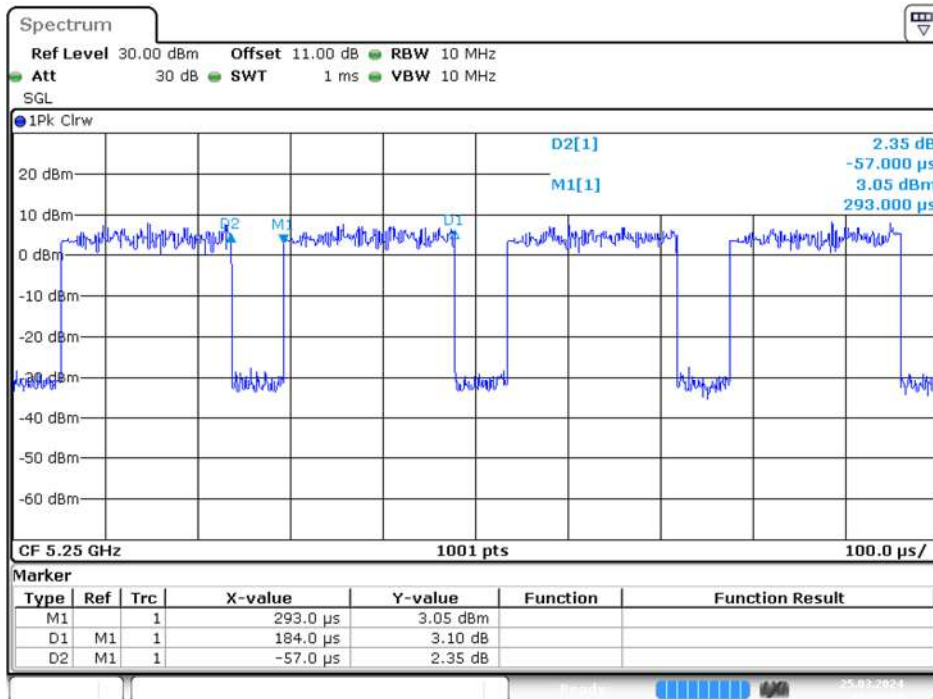


802.11ac 80 Mode



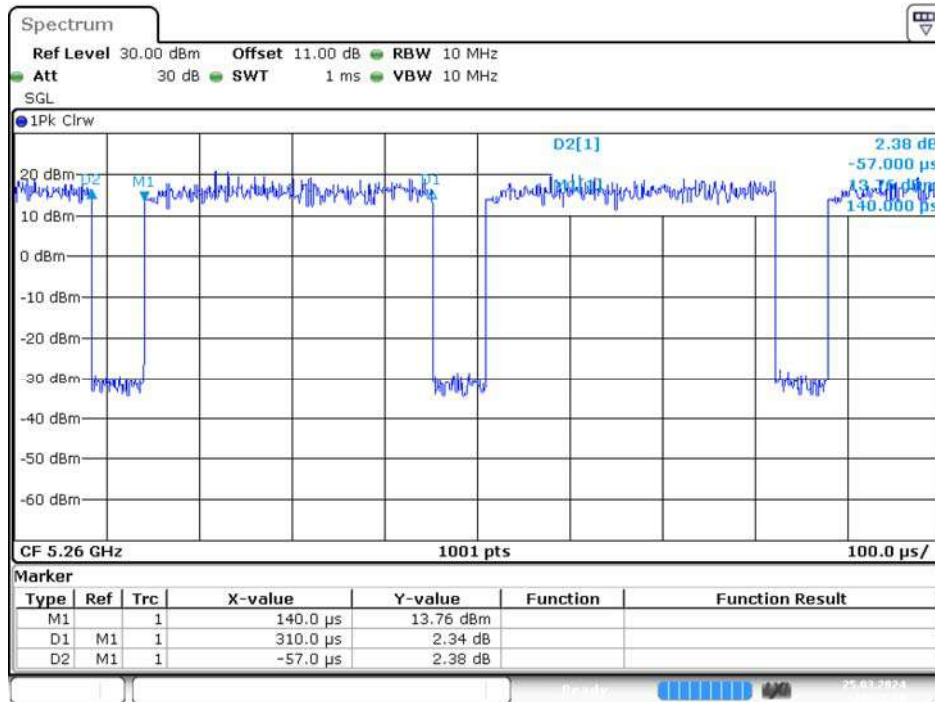
Date: 25.MAR.2024 10:20:24

802.11ac 160 Mode



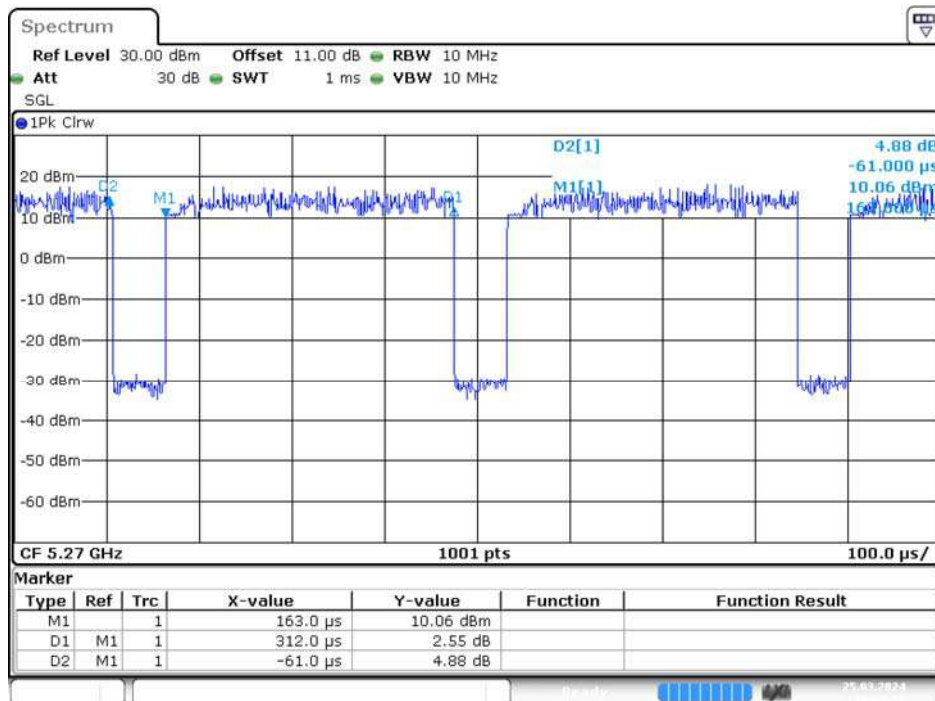
Date: 25.MAR.2024 10:28:27

802.11ax 20 Mode



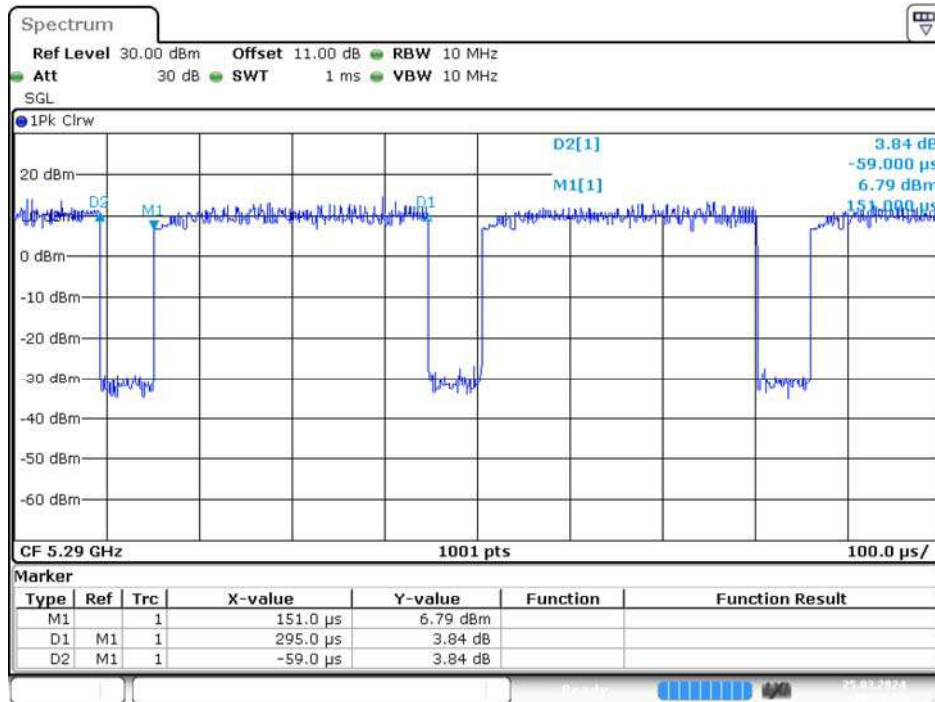
Date: 25.MAR.2024 10:12:38

802.11ax 40 Mode



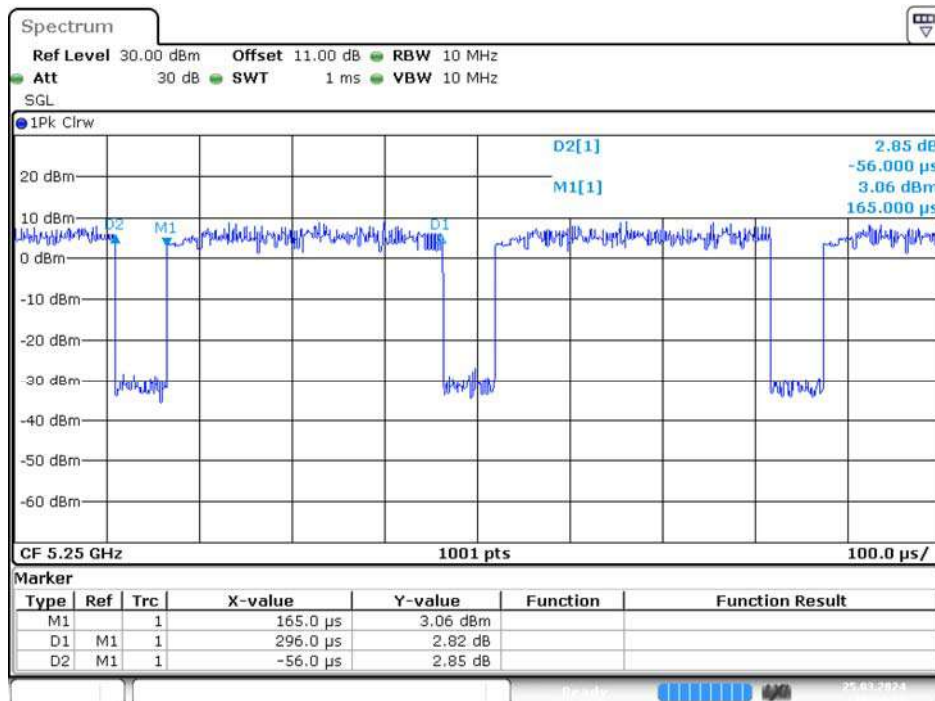
Date: 25.MAR.2024 10:17:56

802.11ax 80 Mode



Date: 25.MAR.2024 10:23:55

802.11ax 160 Mode



Date: 25.MAR.2024 10:34:46

3 Summary of Test Results

Standard(s) Section	Description of Test	Results
FCC §15.407(f), §1.1307(b)(3)	RF Exposure	Compliance
§15.203	Antenna Requirement	Compliance
§15.407(b)(9) & §15.207(a)	AC Line Conducted Emissions	Compliance
§15.205 & §15.209 & §15.407(b)	Unwanted Emission	Compliance
§15.407(a)	Emission Bandwidth	Compliance
§15.407(a)	Conducted Transmitter Output Power	Compliance
§15.407(a)	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	2024/2/16	2025/2/16
EMI Test Receiver	Rohde & Schwarz	ESW8	100947	2023/5/22	2024/5/21
Pulse Limiter	Rohde & Schwarz	ESH3Z2	TXZEM104	2023/5/18	2024/5/17
RF Cable	EMEC	EM-CB5D	001	2023/6/6	2024/6/5
Software	AUDIX	E3	V9.150826k	N.C.R	N.C.R
Radiation Room (966-A)					
Active Loop Antenna	ETS-Lindgren	6502	35796	2023/3/23	2024/3/22
Bilog Antenna with 6 dB Attenuator	SUNOL SCIENCES & MINI-CIRCUITS	JB6/UNAT-6+	A050115/1554_2_01	2024/1/19	2025/1/17
Horn Antenna	EMCO	SAS-571	1020	2023/5/18	2024/5/17
Horn Antenna	ETS-Lindgren	3116	62638	2023/8/25	2024/8/24
Preamplifier	Sonoma	310N	130602	2023/6/16	2024/6/15
Preamplifier	Channel	ERA-100M-18G-01D1748	EC2300051	2023/4/1	2024/3/31
Preamplifier	A.H. Systems	PAM-1840VH	174	2023/3/24	2024/3/23
Spectrum Analyzer	Rohde & Schwarz	FSV40	101939	2023/3/24	2024/3/23
EMI Test Receiver	Rohde & Schwarz	ESR3	102099	2023/6/16	2024/6/15
Micro flex Cable	UTIFLEX	UFB197C-1-2362-70U-70U	225757-001	2024/1/23	2025/1/21
Coaxial Cable	COMMATE	PEWC	8Dr	2023/12/23	2024/12/22
Coaxial Cable	UTIFLEX	UFB311A-Q-1440-300300	220490-006	2024/1/23	2025/1/21
Coaxial Cable	JUNFLON	J12J102248-00-B-5	AUG-07-15-044	2023/12/23	2024/12/22
Cable	EMC	EMC105-SM-SM-10000	201003	2024/1/23	2025/1/21
Coaxial Cable	ROSNOL	K1K50-UP0264-K1K50-450CM	160309-1	2024/1/23	2025/1/21
Coaxial Cable	ROSNOL	K1K50-UP0264-K1K50-50CM	15120-1	2024/1/23	2025/1/21
Band-stop filter	SinoSciTe	BSF5150-5850 MN-0899-002	001	2023/10/20	2024/10/19
High-pass filter	XINGBOKEJI	XBLBQ-GTA29	200121-3-26	2023/10/20	2024/10/19
Software	AUDIX	E3	18621a	N.C.R	N.C.R
Conducted Room					
Spectrum Analyzer	Rohde & Schwarz	FSV40	101204	2023/5/30	2024/5/29
Cable	UTIFLEX	UFA210A	9435	2023/10/2	2024/10/1
Power Sensor	KEYSIGHT	U2021XA	MY54080018	2024/1/30	2025/1/28
Attenuator	MCL	BW-S10W5+	1419	2024/2/23	2025/2/23

***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 §15.407(f), §1.1307(b)(3) – RF Exposure

5.1 Applicable Standard

According to subpart 15.407(f) and subpart §1.1307(b)(3), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission’s guidelines.

For single RF sources (*i.e.*, any single fixed RF source, mobile device, or portable device, as defined in paragraph (b)(2) of this section): A single RF source is exempt if:

(A) The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);

(B) Or the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by:

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

Where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right) \text{ and } f \text{ is in GHz;}$$

and

$$ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

(C) Or using Table 1 and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

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

5.2 RF Exposure Evaluation Result

Project info

Beam-forming:

For the 5G Wi-Fi, as it can support the beam-forming function,

So Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN}/10)^2/N_{ANT}]$ dBi.

Directional gain = Band 2: 8.91 dBi , Band 3: 8.86 dBi

Band	Freq (MHz)	Tune-up Power (dBm)	Ant Gain (dBi)	Distances (mm)	Tune-up Power (mW)	ERP (dBm)	ERP (mW)
WiFi 5GHz Band 2	5260	17.5	8.91	200	56.23	24.26	266.69
WiFi 5GHz Band 3	5500	17.5	8.86	200	56.23	24.21	263.63

§ 1.1307(b)(3)(i)(A) method is not applicable.

§ 1.1307(b)(3)(i)(C)

Band	Freq (MHz)	$\lambda/2\pi$ (mm)	Distances applies	ERP Limit (mW)	Result Option C
WiFi 5GHz Band 2	5260	9.08	apply	768.00	exempt
WiFi 5GHz Band 3	5500	8.68	apply	768.00	exempt

The minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates.

ERP (watts) is no more than the calculated value prescribed for that frequency.

R must be at least $\lambda/2\pi$.

λ is the free-space operating wavelength in meters.

Non Beam-forming:

Band	Freq (MHz)	Tune-up Power (dBm)	Ant Gain (dBi)	Distances (mm)	Tune-up Power (mW)	ERP (dBm)	ERP (mW)
WiFi 5GHz Band 2	5260	22	4.9	200	158.49	24.75	298.54
WiFi 5GHz Band 3	5500	22	5.1	200	158.49	24.95	312.61

§ 1.1307(b)(3)(i)(A) method is not applicable.

§ 1.1307(b)(3)(i)(C)

Band	Freq (MHz)	$\lambda/2\pi$ (mm)	Distances applies	ERP Limit (mW)	Result Option C
WiFi 5GHz Band 2	5260	9.08	apply	768.00	exempt
WiFi 5GHz Band 3	5500	8.68	apply	768.00	exempt

The minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates.

ERP (watts) is no more than the calculated value prescribed for that frequency.

R must be at least $\lambda/2\pi$.

λ is the free-space operating wavelength in meters.

The WIFI 2.4GHz and WIFI 5GHz cannot transmit simultaneously

Result: The device compliant the MPE-Based Exemption at 20cm distances.

6 FCC §15.203 – Antenna Requirements

6.1 Applicable Standard

For intentional device, 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.

6.2 Antenna Information

Manufacturer	Antenna Type	Antenna Gain (dBi)	Input impedance
LYNwave Technology.	PCB Antenna	Antenna 0: 5250-5350 MHz: 3.0 5470-5725 MHz: 2.8	50Ω
		Antenna 1: 5250-5350 MHz: 4.4 5470-5725 MHz: 4.2	
		Antenna 2: 5250-5350 MHz: 4.9 5470-5725 MHz: 5.1	

The antenna is permanently connected to the EUT.

Result: Compliance

7 FCC §15.407(b)(9), §15.207(a) – AC Line Conducted Emissions

7.1 Applicable Standard

As per FCC §15.407(b) (9)

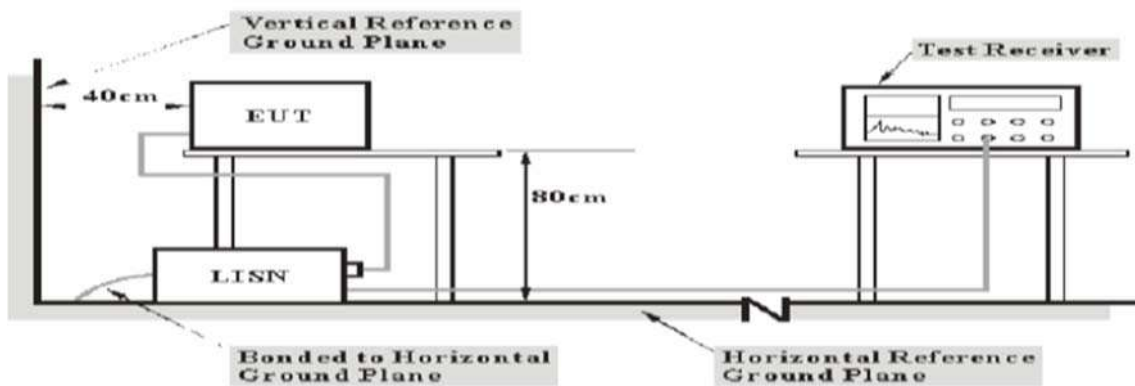
Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207

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 μH/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequencies ranges.

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

Note 1: Decreases with the logarithm of the frequency.

7.2 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 C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

7.3 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

7.4 Test Procedure

During the conducted emission test, the adapter 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.

7.5 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:

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

7.6 Test Results

Test Mode: Transmitting

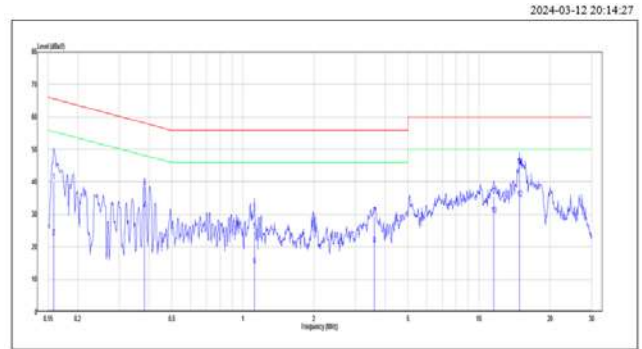
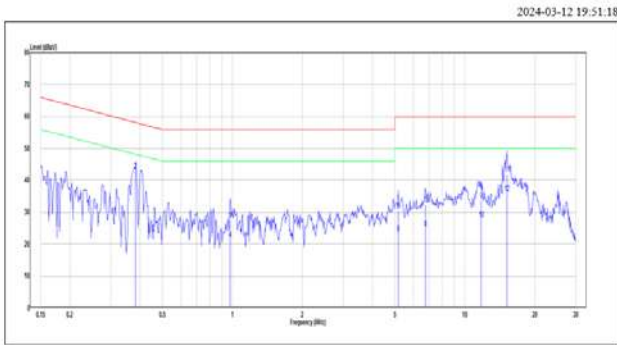
Main: AC120 V, 60 Hz

Non Beamforming Mode:

(Worst case is 802.11ac40 mode, 5310 MHz)

Line

Neutral



No.	Frequency (MHz)	Reading dBAV	Correct Factor(dB)	Result dBAV	Limit dBAV	Over limit (dB)	Remark	Phase
1	0.383	23.79	19.52	43.31	58.21	-14.90	QP	Line
2	0.383	23.36	19.52	42.88	48.21	-5.33	Average	Line
3	0.979	7.47	19.81	27.28	56.00	-28.72	QP	Line
4	0.979	1.63	19.81	21.44	46.00	-24.56	Average	Line
5	5.166	10.28	20.11	30.39	60.00	-29.61	QP	Line
6	5.166	3.13	20.11	23.24	50.00	-26.76	Average	Line
7	6.769	12.34	20.10	32.44	60.00	-27.56	QP	Line
8	6.769	4.88	20.10	24.97	50.00	-25.03	Average	Line
9	11.745	13.52	20.13	33.65	60.00	-26.35	QP	Line
10	11.745	7.66	20.13	27.80	50.00	-22.20	Average	Line
11	15.146	21.68	20.24	41.92	60.00	-18.08	QP	Line
12	15.146	15.64	20.24	35.87	50.00	-14.13	Average	Line

No.	Frequency (MHz)	Reading dBAV	Correct Factor(dB)	Result dBAV	Limit dBAV	Over limit (dB)	Remark	Phase
1	0.158	20.69	19.45	40.14	65.56	-25.42	QP	Neutral
2	0.158	3.41	19.45	22.86	55.56	-32.70	Average	Neutral
3	0.383	19.04	19.53	38.56	58.21	-19.65	QP	Neutral
4	0.383	11.81	19.53	31.34	48.21	-16.87	Average	Neutral
5	1.117	4.98	19.85	24.83	56.00	-31.17	QP	Neutral
6	1.117	-5.60	19.85	14.25	46.00	-31.75	Average	Neutral
7	3.603	9.46	20.07	29.53	56.00	-26.47	QP	Neutral
8	3.603	0.54	20.07	20.61	46.00	-25.39	Average	Neutral
9	11.559	15.58	20.15	35.74	60.00	-24.26	QP	Neutral
10	11.559	9.68	20.15	29.84	50.00	-20.16	Average	Neutral
11	14.828	24.51	20.27	44.78	60.00	-15.22	QP	Neutral
12	14.828	14.66	20.27	34.93	50.00	-15.07	Average	Neutral

Note:

Result = Reading + Factor

Over Limit = Result - Limit Line

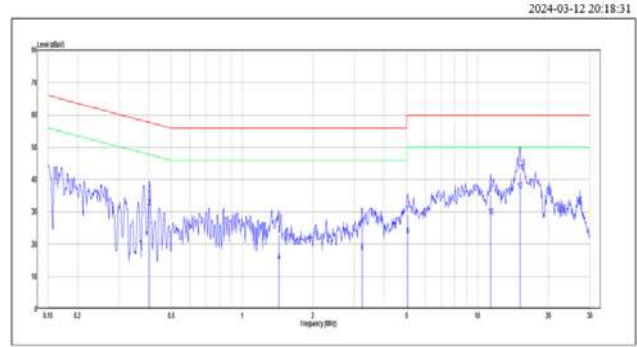
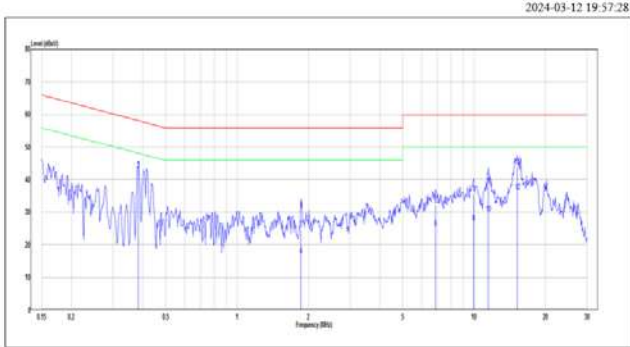
Factor = (LISN, ISN, PLC or current probe) Factor + Cable Loss + Attenuator

Beamforming Mode:

(Worst case is 802.11ax160 mode, 5570 MHz)

Line

Neutral



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Over limit (dB)	Remark	Phase
1	0.383	23.77	19.52	43.29	58.21	-14.92	QP	Line
2	0.383	23.34	19.52	42.86	48.21	-5.35	Average	Line
3	1.858	4.71	19.99	24.70	56.00	-31.30	QP	Line
4	1.858	-3.10	19.99	16.59	46.00	-29.11	Average	Line
5	6.878	12.02	20.10	32.12	60.00	-27.88	QP	Line
6	6.878	5.07	20.10	25.17	50.00	-24.83	Average	Line
7	9.966	15.57	20.08	35.65	60.00	-24.35	QP	Line
8	9.966	6.56	20.08	26.64	50.00	-23.36	Average	Line
9	11.498	17.98	20.12	38.10	60.00	-21.90	QP	Line
10	11.498	9.43	20.12	29.55	50.00	-20.45	Average	Line
11	15.226	23.66	20.24	43.90	60.00	-16.10	QP	Line
12	15.226	15.99	20.24	36.23	50.00	-13.77	Average	Line

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Over limit (dB)	Remark	Phase
1	0.404	17.47	19.54	37.01	57.77	-20.76	QP	Neutral
2	0.404	11.56	19.54	31.40	47.77	-16.37	Average	Neutral
3	1.433	3.21	19.92	23.12	56.00	-32.88	QP	Neutral
4	1.433	-5.37	19.92	14.55	46.00	-31.45	Average	Neutral
5	3.241	5.20	20.06	25.26	56.00	-30.74	QP	Neutral
6	3.241	-2.51	20.06	17.55	46.00	-28.45	Average	Neutral
7	5.058	9.33	20.11	29.44	60.00	-30.56	QP	Neutral
8	5.058	2.58	20.11	22.69	50.00	-27.31	Average	Neutral
9	11.377	15.24	20.15	35.38	60.00	-24.62	QP	Neutral
10	11.377	8.51	20.15	28.66	50.00	-21.34	Average	Neutral
11	15.146	22.03	20.28	42.31	60.00	-17.69	QP	Neutral
12	15.146	16.30	20.28	36.58	50.00	-13.42	Average	Neutral

Note:

Result = Reading + Factor

Over Limit = Result - Limit Line

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

8 FCC §15.209, §15.205, §15.407(b) – Spurious Emissions

8.1 Applicable Standard

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

MHz	MHz	MHz	GHz
0.090 – 0.110	16.42 – 16.423	608 – 614	4.5 – 5.15
0.495 – 0.505	16.69475 – 16.69525	960 – 1240	5.35 – 5.46
2.1735 – 2.1905	16.80425 – 16.80475	1300 – 1427	7.25 – 7.75
4.125 – 4.128	25.5 – 25.67	1435 – 1626.5	8.025 – 8.5
4.17725 – 4.17775	37.5 – 38.25	1645.5 – 1646.5	9.0 – 9.2
4.20725 – 4.20775	73 – 74.6	1660 – 1710	9.3 – 9.5
6.215 – 6.218	74.8 – 75.2	1718.8 – 1722.2	10.6 – 12.7
6.26775 – 6.26825	108 – 121.94	2200 – 2300	13.25 – 13.4
6.31175 – 6.31225	123 – 138	2310 – 2390	14.47 – 14.5
8.291 – 8.294	149.9 – 150.05	2483.5 – 2500	15.35 – 16.2
8.362 – 8.366	156.52475 – 156.52525	2690 – 2900	17.7 – 21.4
8.37625 – 8.38675	156.7 – 156.9	3260 – 3267	22.01 – 23.12
8.41425 – 8.41475	162.0125 – 167.17	3.332 – 3.339	23.6 – 24.0
12.29 – 12.293	167.72 – 173.2	3 3458 – 3 358	31.2 – 31.8
12.51975 – 12.52025	240 – 285	3.600 – 4.400	36.43 – 36.5
12.57675 – 12.57725	322 – 335.4		Above 38.6
13.36 – 13.41	399.9 – 410		

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

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

Note 1: 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 470-806MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

According to ANSI C63.10-2013, section 5.3.3

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

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

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

As per FCC Part 15.407 (b)

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

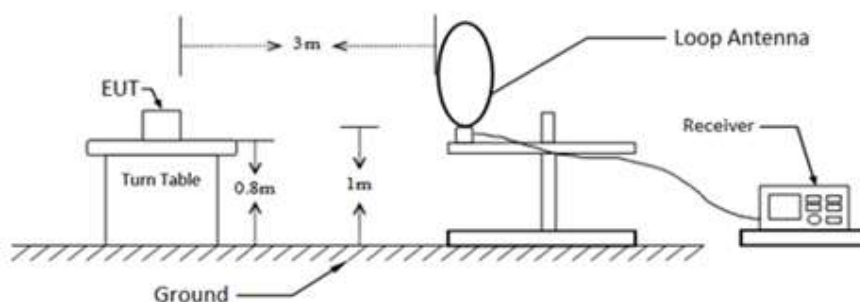
Devices certified before March 2, 2017 with antenna gain greater than 10 dBi may demonstrate compliance with the emission limits in § 15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease by March 2, 2018. Devices certified before March 2, 2018 with antenna gain of 10 dBi or less may demonstrate compliance with the emission limits in §15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease before March 2, 2020.

The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.

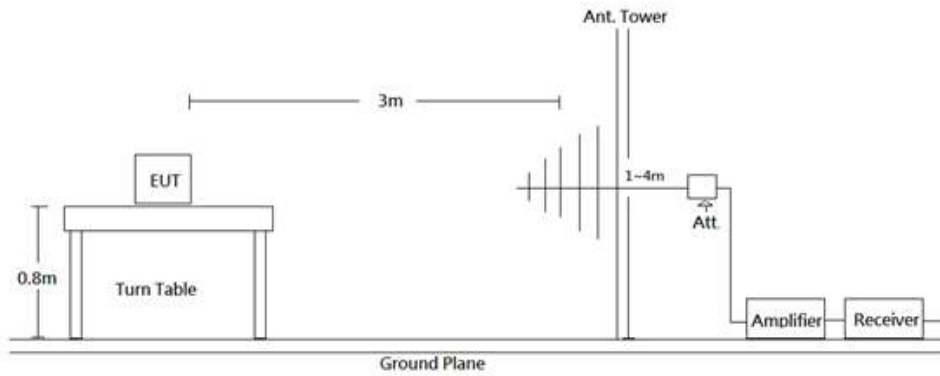
Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209.

8.2 EUT Setup

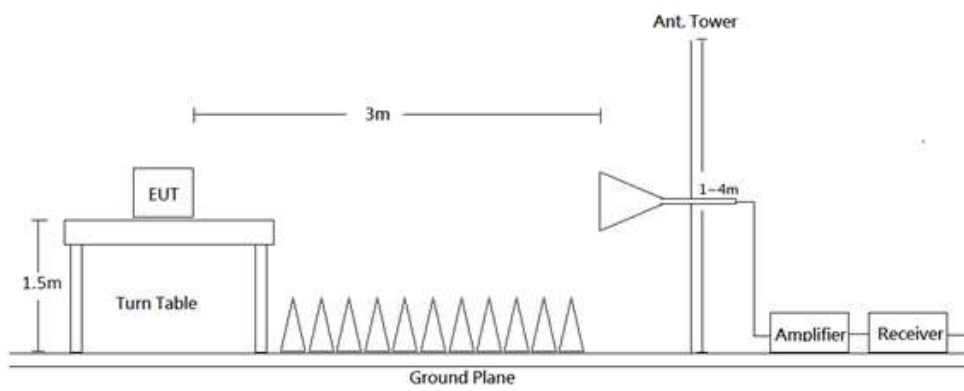
9kHz-30MHz:



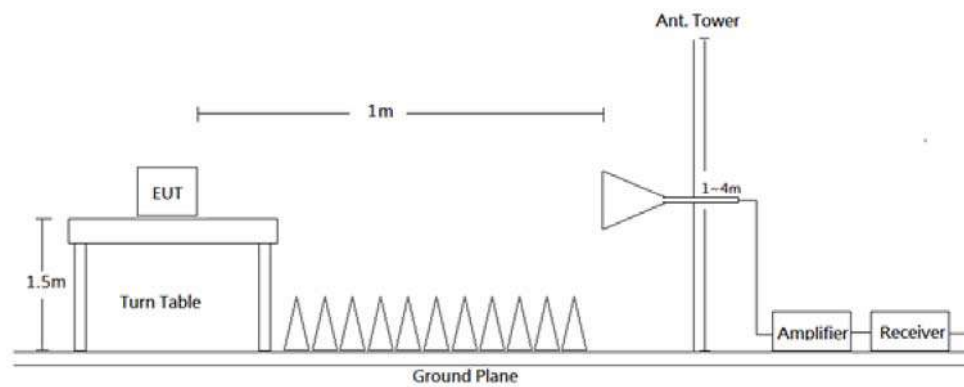
30MHz-1GHz:



1-18 GHz:



18-40 GHz:



Radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC Part 15.209, FCC 15.407 Limits.

8.3 EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9 kHz to 40 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
9 kHz - 150 kHz	200 Hz/300 Hz	1 kHz	/	QP/AV
150 kHz - 30 MHz	9 kHz/10 kHz	30 kHz	/	QP/AV
30-1000 MHz	120 kHz	300 kHz	/	QP
Above 1 GHz	1 MHz	3 MHz	/	PK
	1 MHz	10 Hz	>98%	Ave
	1 MHz	1/T	<98%	Ave

Note: T is minimum transmission duration

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

8.4 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.

According to C63.10, emission shall be computed as: $E [dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.

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

8.5 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:

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

8.6 Test Results

Test Mode: Transmitting

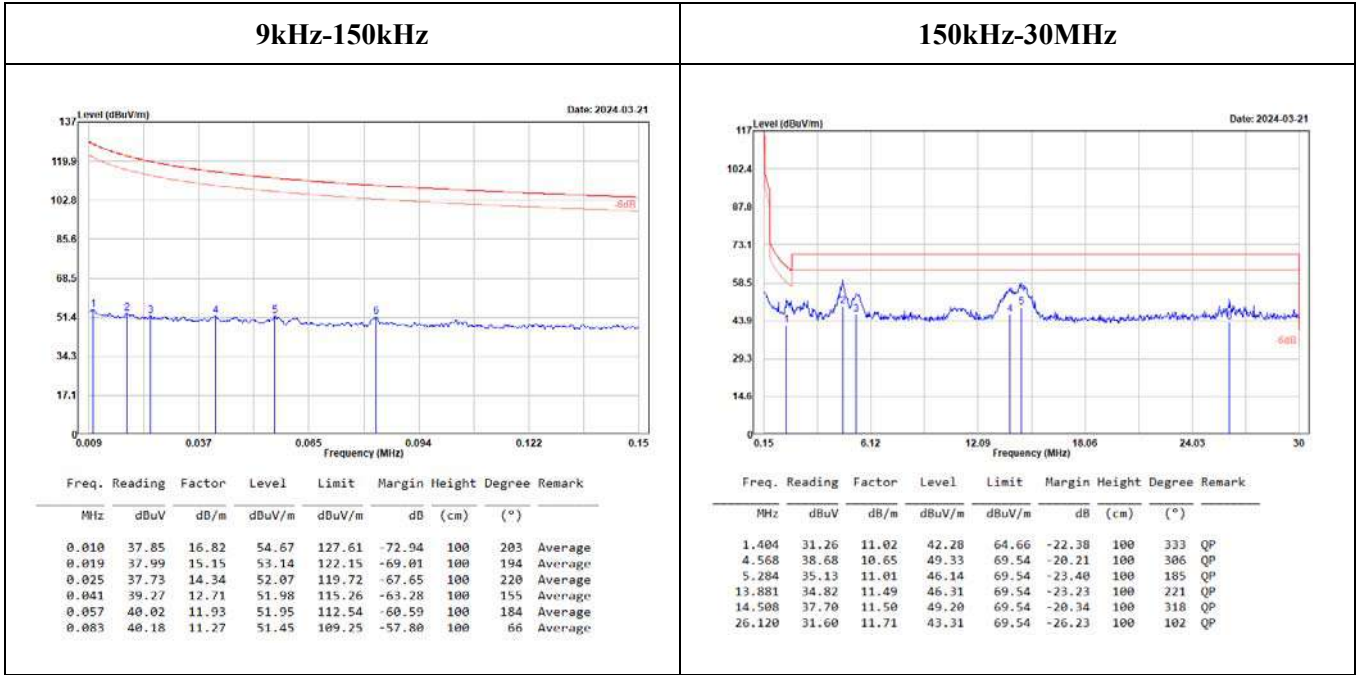
(Pre-scan with three orthogonal axis, and worse case as Z axis.)

9kHz-30MHz:

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

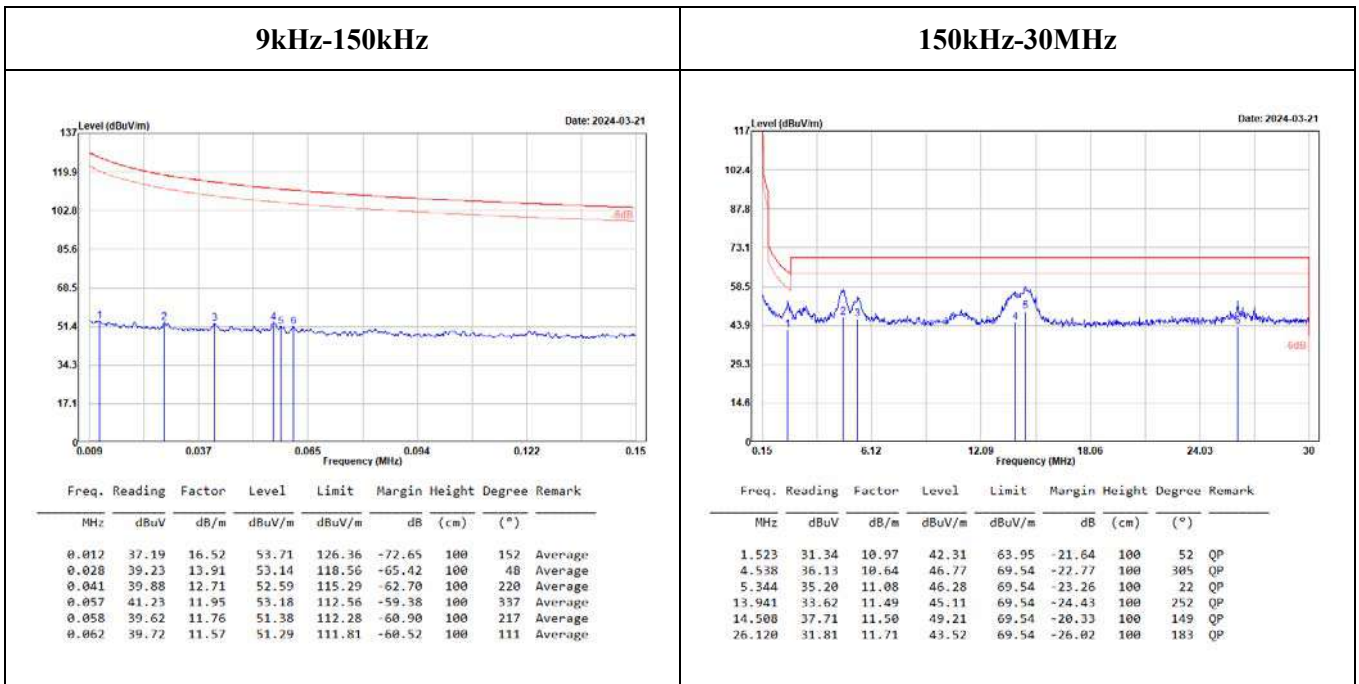
Non Beamforming Mode:

(Worst case is 802.11ax20 mode 5700 MHz)



Beamforming Mode:

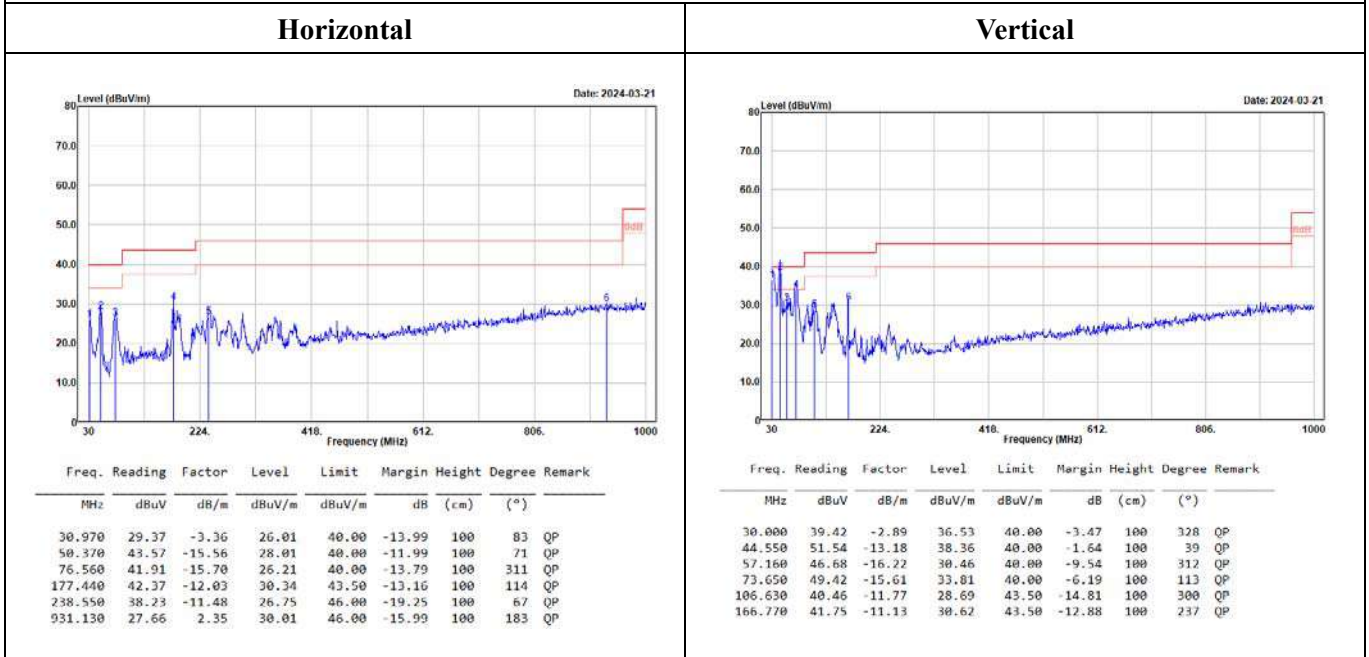
(Worst case is 802.11ax160 mode 5570 MHz)



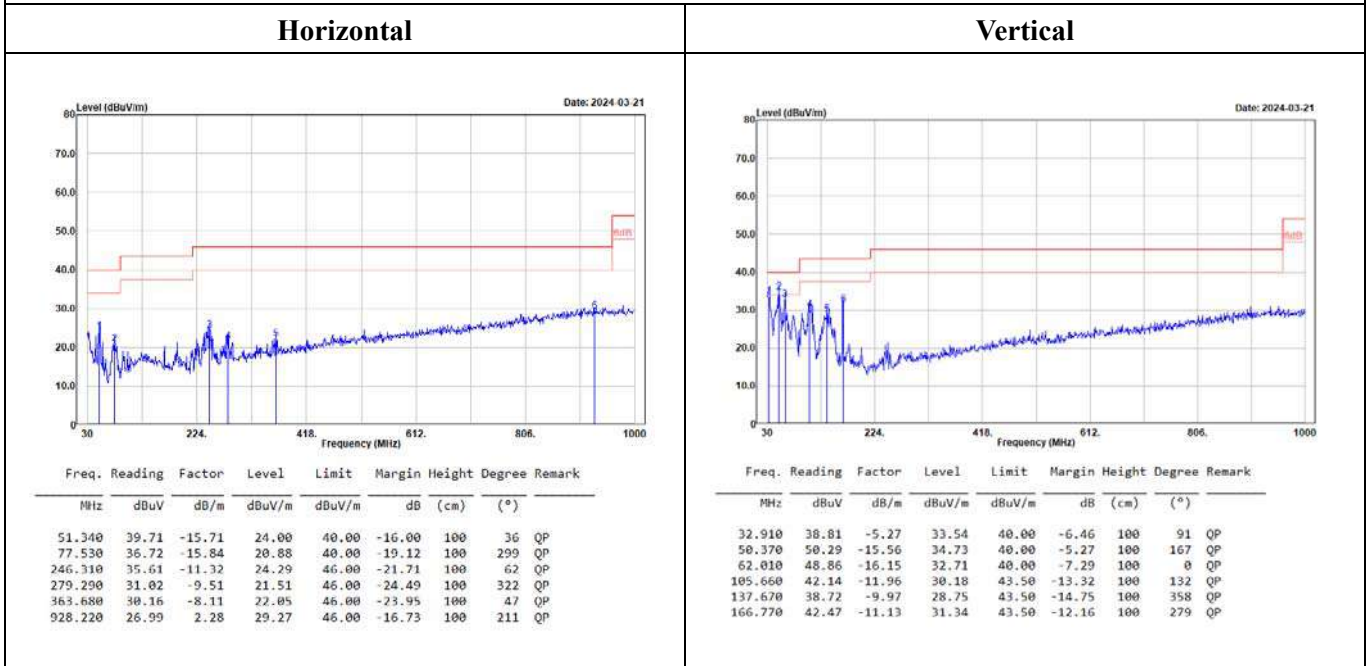
30MHz-1GHz:

Non Beamforming Mode:

(Worst case is 802.11ac 40 Mode, 5310 MHz)



(Worst case is 802.11ax 20 Mode, 5580 MHz)

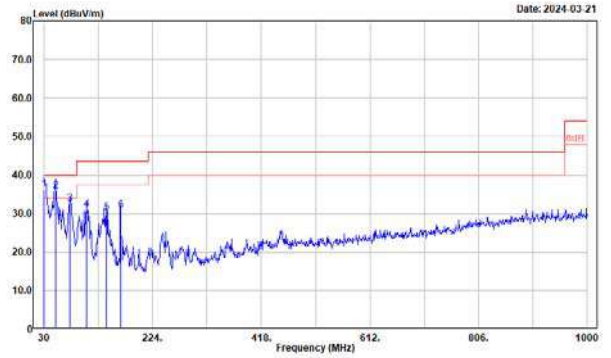
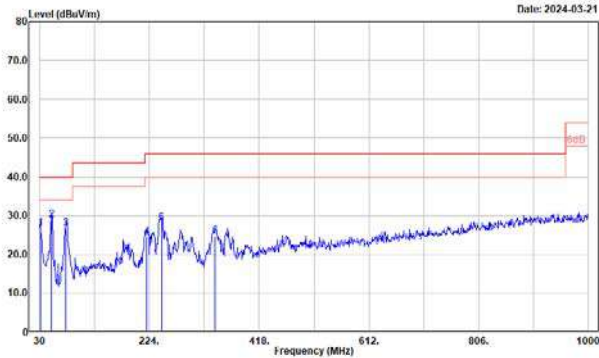


Beamforming Mode:

(Worst case is 802.11ac 160 Mode, 5250 MHz)

Horizontal

Vertical



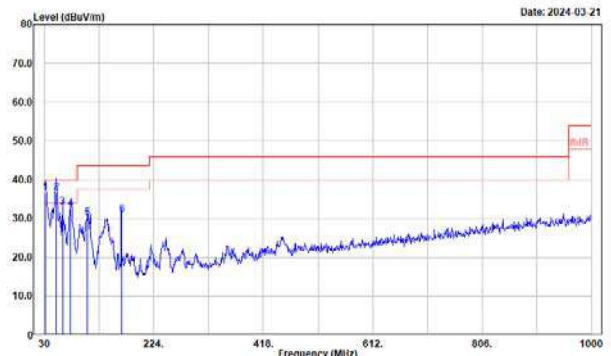
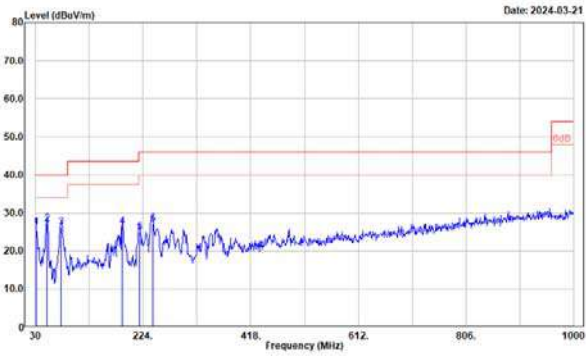
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
30.970	29.94	-3.36	26.58	40.00	-13.42	100	360	QP
51.340	44.47	-15.71	28.76	40.00	-11.24	100	49	QP
76.560	42.47	-15.70	26.77	40.00	-13.23	100	316	QP
219.150	36.79	-12.24	24.55	46.00	-21.45	100	46	QP
245.340	39.23	-11.31	27.92	46.00	-18.08	100	53	QP
339.430	33.29	-8.57	24.72	46.00	-21.28	100	316	QP

Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
30.000	39.06	-2.89	36.17	40.00	-3.83	100	152	QP
50.370	51.31	-15.56	35.75	40.00	-4.25	100	128	QP
76.560	48.12	-15.70	32.42	40.00	-7.58	100	0	QP
105.660	42.95	-11.96	30.99	43.50	-12.51	100	330	QP
141.550	40.31	-10.11	30.20	43.50	-13.30	100	337	QP
166.770	41.93	-11.13	30.80	43.50	-12.70	100	233	QP

(Worst case is 802.11ax 160 Mode, 5570 MHz)

Horizontal

Vertical



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
30.970	29.69	-3.36	26.33	40.00	-13.67	100	113	QP
51.340	42.71	-15.71	27.00	40.00	-13.00	100	60	QP
75.590	41.71	-15.56	26.15	40.00	-13.85	100	324	QP
186.170	38.70	-12.15	26.55	43.50	-16.95	100	113	QP
217.210	37.34	-12.34	25.00	46.00	-21.00	100	310	QP
241.460	38.58	-11.38	27.20	46.00	-18.80	100	56	QP

Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
30.970	40.09	-3.36	36.73	40.00	-3.27	100	106	QP
51.340	52.45	-15.71	36.74	40.00	-3.26	100	117	QP
62.010	49.07	-16.15	32.92	40.00	-7.08	100	156	QP
76.560	48.24	-15.70	32.54	40.00	-7.46	100	90	QP
106.630	41.94	-11.77	30.17	43.50	-13.33	100	164	QP
166.770	42.20	-11.13	31.07	43.50	-12.43	100	279	QP

Level = Reading + Factor.

Margin = Level - Limit.

Factor = Antenna Factor + Cable Loss - Amplifier Gain.

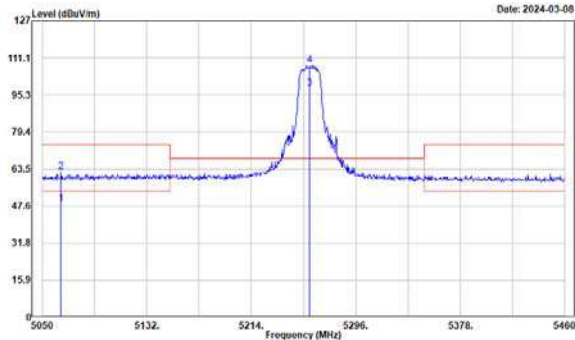
Band-Edge

Non Beamforming Mode:

5250-5350 MHz

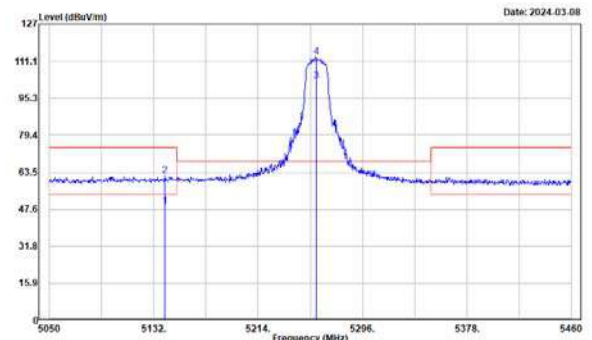
(802.11a Mode, 5260 MHz)

Horizontal



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5064.760	52.34	-3.71	48.63	54.00	-5.37	115	173	Average
5064.760	65.83	-3.71	62.12	74.00	-11.88	115	173	Peak
5260.000	102.11	-3.98	98.13	115	173	115	173	Average
5260.000	112.04	-3.98	108.06	115	173	115	173	Peak

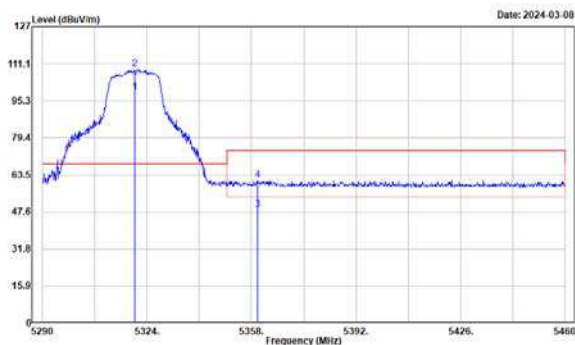
Vertical



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5140.610	52.42	-3.59	48.83	54.00	-5.17	124	88	Average
5140.610	65.64	-3.59	62.05	74.00	-11.95	124	88	Peak
5260.000	106.41	-3.98	102.43	115	173	124	88	Average
5260.000	116.91	-3.98	112.93	115	173	124	88	Peak

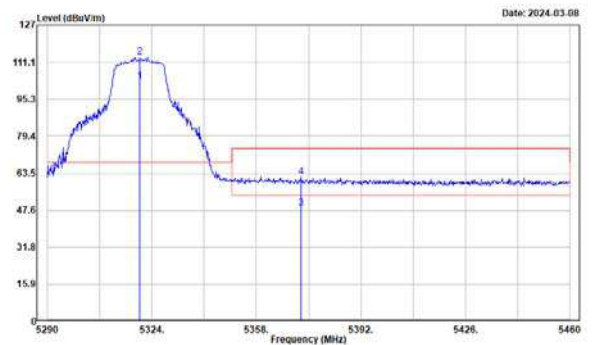
(802.11a Mode, 5320 MHz)

Horizontal



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5320.000	102.99	-4.13	98.86	104	175	104	175	Average
5320.000	112.75	-4.13	108.62	104	175	104	175	Peak
5359.870	52.09	-4.30	48.39	54.00	-5.61	104	175	Average
5359.870	65.51	-4.30	61.21	74.00	-12.79	104	175	Peak

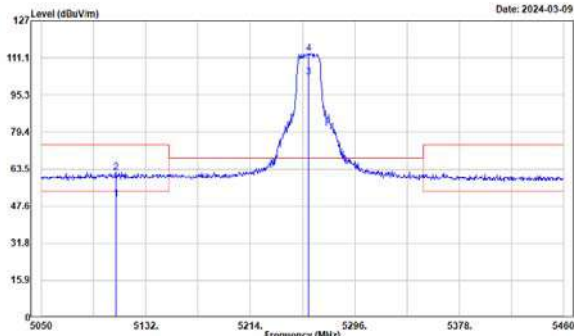
Vertical



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5320.000	107.15	-4.13	103.02	104	175	154	91	Average
5320.000	117.41	-4.13	113.28	104	175	154	91	Peak
5372.620	53.04	-4.37	48.67	54.00	-5.33	154	91	Average
5372.620	66.26	-4.37	61.89	74.00	-12.11	154	91	Peak

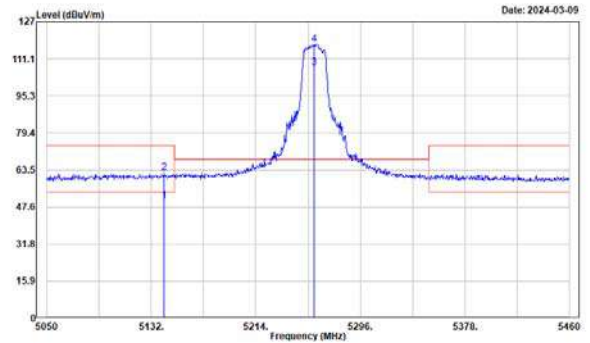
(802.11ac VHT20 Mode, 5260 MHz)

Horizontal



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5108.630	53.97	-3.55	50.42	54.00	-3.58	108	275	Average
5108.630	65.50	-3.55	61.95	74.00	-12.05	108	275	Peak
5260.000	107.01	-3.98	103.03			108	275	Average
5260.000	117.04	-3.98	113.06			108	275	Peak

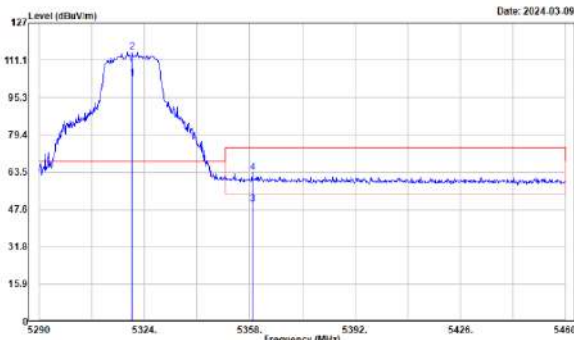
Vertical



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5142.250	53.75	-3.59	50.16	54.00	-3.84	130	86	Average
5142.250	65.72	-3.59	62.13	74.00	-11.87	130	86	Peak
5260.000	111.25	-3.98	107.27			130	86	Average
5260.000	121.43	-3.98	117.45			130	86	Peak

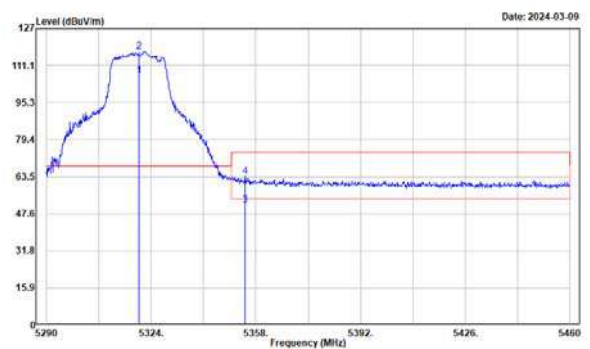
(802.11ac VHT20 Mode, 5320 MHz)

Horizontal



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5320.000	107.44	-4.13	103.31			106	290	Average
5320.000	118.00	-4.13	114.67			106	290	Peak
5358.850	54.27	-4.29	49.98	54.00	-4.02	106	290	Average
5358.850	67.73	-4.29	63.44	74.00	-10.56	106	290	Peak

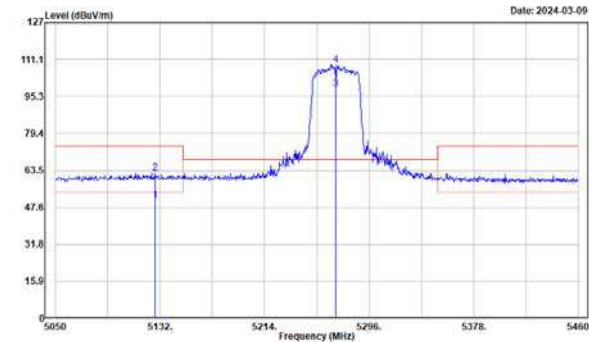
Vertical



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5320.000	110.84	-4.13	106.71			151	89	Average
5320.000	121.24	-4.13	117.11			151	89	Peak
5354.430	55.40	-4.27	51.13	54.00	-2.87	151	89	Average
5354.430	67.78	-4.27	63.51	74.00	-10.49	151	89	Peak

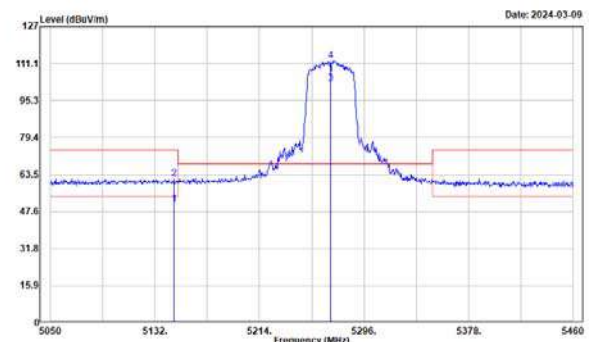
(802.11ac VHT40 Mode, 5270 MHz)

Horizontal



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5127.900	54.08	-3.58	50.50	54.00	-3.50	105	290	Average
5127.900	65.91	-3.58	62.33	74.00	-11.67	105	290	Peak
5270.000	102.45	-4.00	98.45			105	290	Average
5270.000	112.92	-4.00	108.92			105	290	Peak

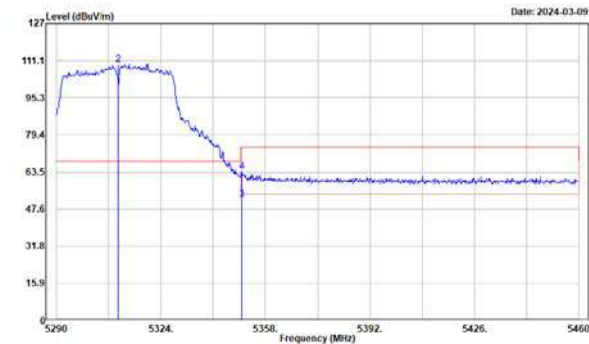
Vertical



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5147.170	54.05	-3.60	50.45	54.00	-3.55	122	91	Average
5147.170	65.28	-3.60	61.68	74.00	-12.32	122	91	Peak
5270.000	106.65	-4.00	102.65			122	91	Average
5270.000	116.15	-4.00	112.15			122	91	Peak

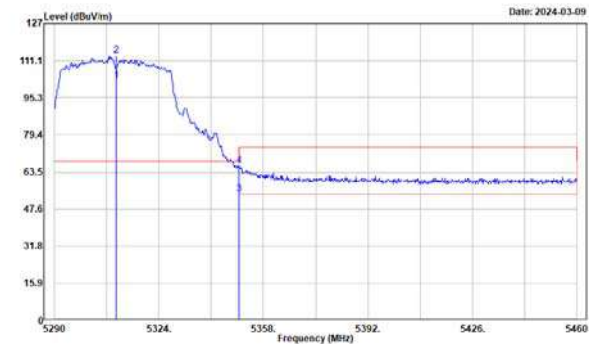
(802.11ac VHT40 Mode, 5310 MHz)

Horizontal



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5310.000	103.99	-4.09	99.90			105	281	Average
5310.000	113.65	-4.09	109.56			105	281	Peak
5350.350	55.75	-4.23	51.52	54.00	-2.48	105	281	Average
5350.350	67.84	-4.23	63.61	74.00	-10.39	105	281	Peak

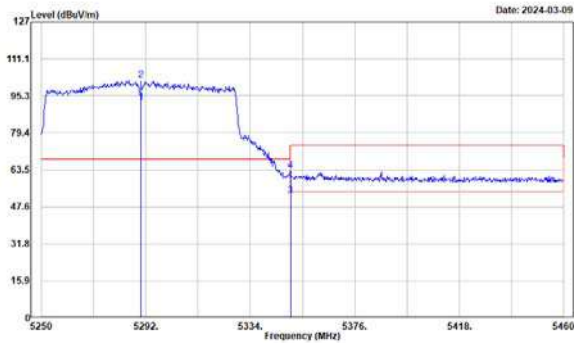
Vertical



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5310.000	106.50	-4.09	102.41			130	90	Average
5310.000	117.28	-4.09	113.19			130	90	Peak
5350.010	58.10	-4.23	53.87	54.00	-0.13	130	90	Average
5350.010	70.22	-4.23	65.99	74.00	-8.01	130	90	Peak

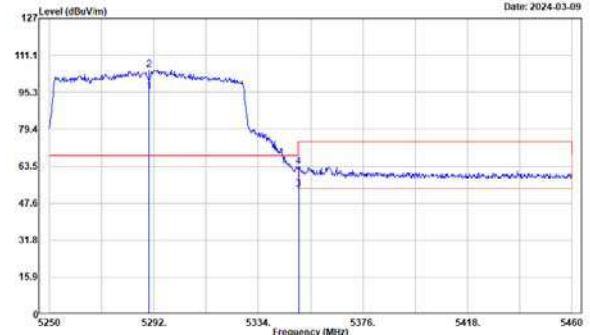
(802.11ac VHT80 Mode, 5290 MHz)

Horizontal



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5290.000	96.17	-4.04	92.13	54.00	106	270	Average	
5290.000	106.03	-4.04	101.99	54.00	106	270	Peak	
5350.170	56.38	-4.23	52.15	54.00	-1.85	106	270	Average
5350.170	67.15	-4.23	62.92	74.00	-11.08	106	270	Peak

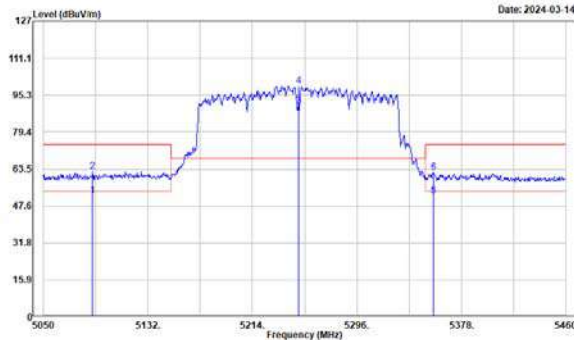
Vertical



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5290.000	99.73	-4.04	95.69	54.00	137	90	Average	
5290.000	109.11	-4.04	105.07	54.00	137	90	Peak	
5350.170	57.90	-4.23	53.67	74.00	-8.33	137	90	Average
5350.170	67.59	-4.23	63.36	74.00	-10.64	137	90	Peak

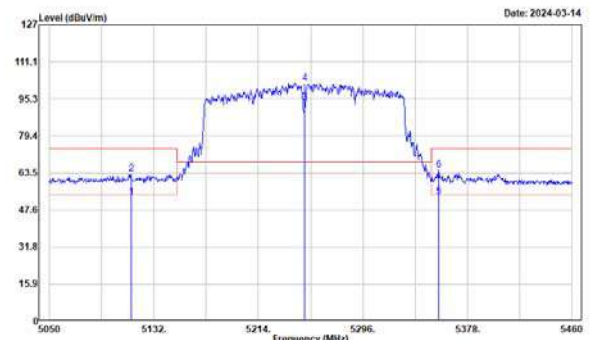
(802.11ac VHT160 Mode, 5250 MHz)

Horizontal



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5088.540	55.60	-3.59	52.01	54.00	-1.99	100	270	Average
5088.540	65.93	-3.59	62.34	74.00	-11.66	100	270	Peak
5250.000	94.35	-3.97	90.38	54.00	100	270	Average	
5250.000	103.11	-3.97	99.14	54.00	100	270	Peak	
5356.270	56.42	-4.28	52.14	54.00	-1.86	100	270	Average
5356.270	66.32	-4.28	62.04	74.00	-11.96	100	270	Peak

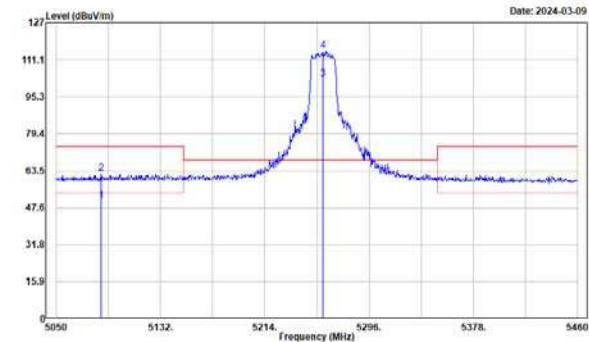
Vertical



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5113.960	56.59	-3.55	53.04	54.00	-0.96	122	113	Average
5113.960	66.64	-3.55	63.09	74.00	-10.91	122	113	Peak
5250.000	97.58	-3.97	93.61	54.00	122	113	Average	
5250.000	106.01	-3.97	102.04	54.00	122	113	Peak	
5355.450	57.61	-4.27	53.34	54.00	-0.66	122	113	Average
5355.450	68.85	-4.27	64.58	74.00	-9.42	122	113	Peak

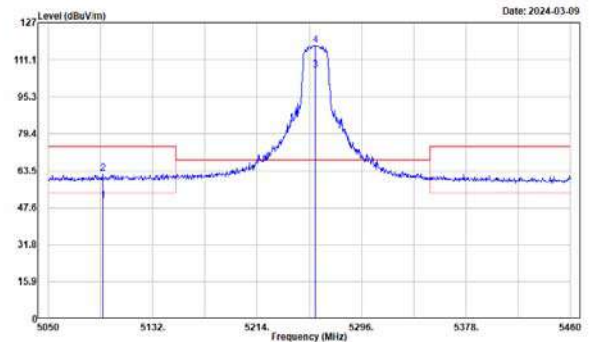
(802.11ax HE20 Mode, 5260 MHz)

Horizontal



Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
5085.260	54.05	-3.61	50.44	54.00	-3.56	106	275	Average
5085.260	65.93	-3.61	62.32	74.00	-11.68	106	275	Peak
5260.000	106.72	-3.98	102.74	106	275	106	275	Average
5260.000	118.87	-3.98	114.89	106	275	106	275	Peak

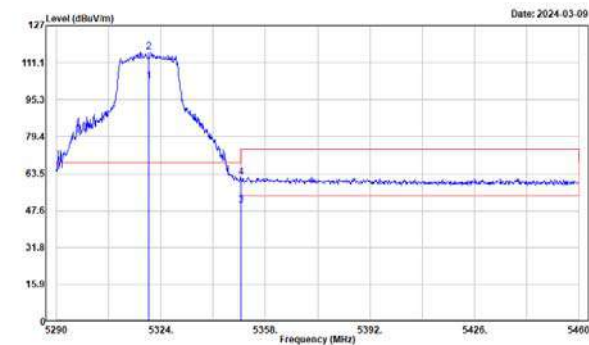
Vertical



Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
5092.640	54.06	-3.57	50.49	54.00	-3.51	128	87	Average
5092.640	65.76	-3.57	62.19	74.00	-11.81	128	87	Peak
5260.000	110.73	-3.98	106.75	106	275	128	87	Average
5260.000	121.41	-3.98	117.43	106	275	128	87	Peak

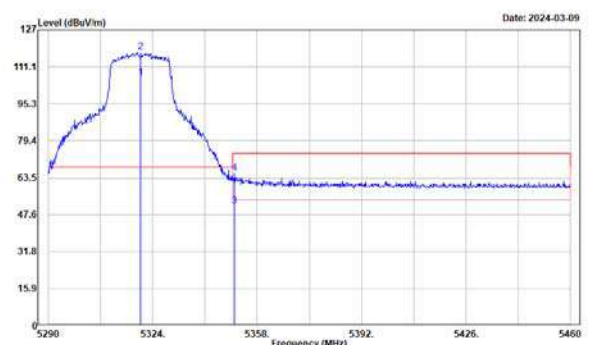
(802.11ax HE20 Mode, 5320 MHz)

Horizontal



Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
5320.000	107.46	-4.13	103.33	105	281	105	281	Average
5320.000	119.93	-4.13	115.80	105	281	105	281	Peak
5350.120	54.11	-4.23	49.88	54.00	-4.12	105	281	Average
5350.120	66.35	-4.23	62.12	74.00	-11.88	105	281	Peak

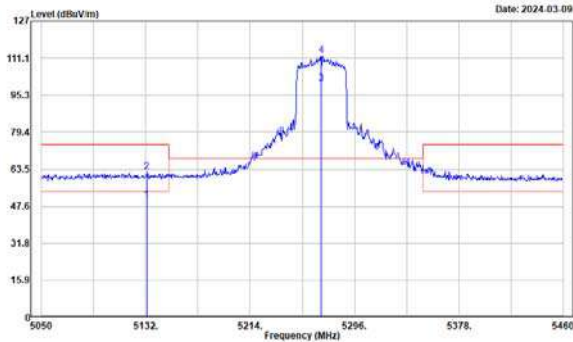
Vertical



Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
5320.000	110.33	-4.13	106.20	105	281	152	90	Average
5320.000	121.41	-4.13	117.28	105	281	152	90	Peak
5350.690	55.56	-4.23	51.33	54.00	-2.67	152	90	Average
5350.690	69.61	-4.23	65.38	74.00	-8.62	152	90	Peak

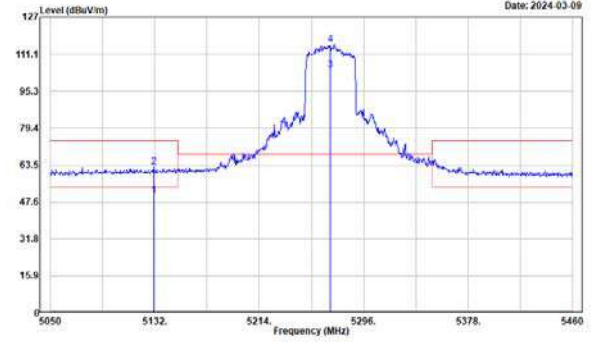
(802.11ax HE40 Mode, 5270 MHz)

Horizontal



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5132.820	53.68	-3.58	50.10	54.00	-3.90	104	287	Average
5132.820	65.75	-3.58	62.17	74.00	-11.83	104	287	Peak
5270.000	104.25	-4.00	100.25			104	287	Average
5270.000	116.33	-4.00	112.33			104	287	Peak

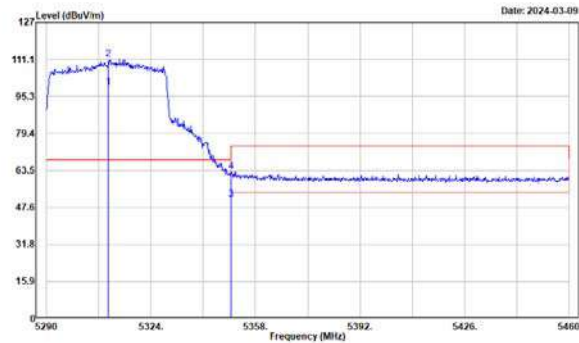
Vertical



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5131.180	53.88	-3.58	50.30	54.00	-3.70	126	88	Average
5131.180	66.18	-3.58	62.60	74.00	-11.40	126	88	Peak
5270.000	108.36	-4.00	104.36			126	88	Average
5270.000	119.38	-4.00	115.38			126	88	Peak

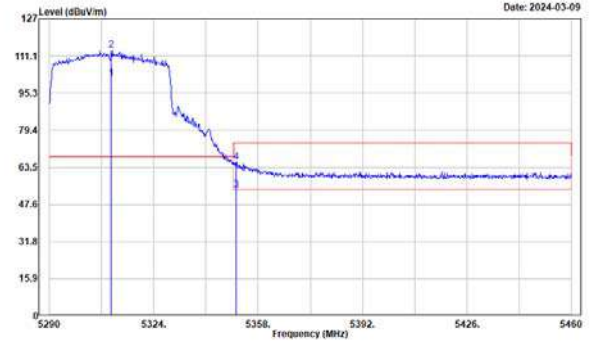
(802.11ax HE40 Mode, 5310 MHz)

Horizontal



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5310.000	103.14	-4.09	99.05			105	279	Average
5310.000	115.19	-4.09	111.10			105	279	Peak
5350.010	55.25	-4.23	51.02	54.00	-2.98	105	279	Average
5350.010	67.29	-4.23	63.06	74.00	-10.94	105	279	Peak

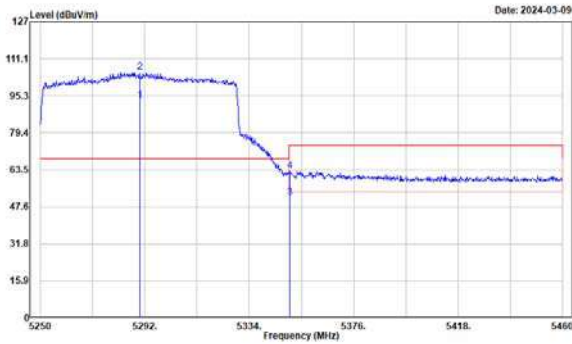
Vertical



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5310.000	105.59	-4.09	101.50			130	91	Average
5310.000	117.51	-4.09	113.42			130	91	Peak
5350.860	57.94	-4.24	53.70	54.00	-0.30	130	91	Average
5350.860	70.07	-4.24	65.83	74.00	-8.17	130	91	Peak

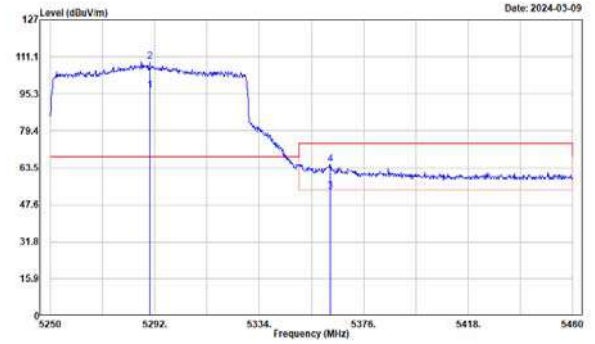
(802.11ax HE80 Mode, 5290 MHz)

Horizontal



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5290.000	97.27	-4.04	93.23			108	271	Average
5290.000	109.51	-4.04	105.47			108	271	Peak
5350.380	55.96	-4.23	51.73	54.00	-2.27	108	271	Average
5350.380	67.37	-4.23	63.14	74.00	-10.86	108	271	Peak

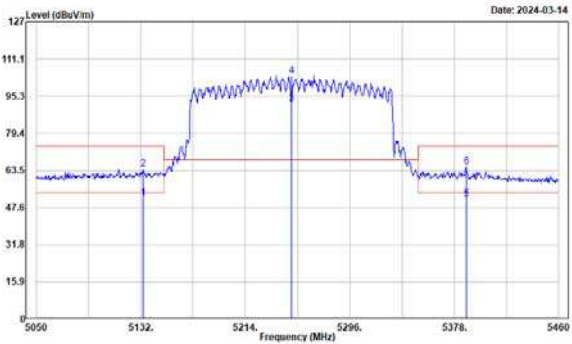
Vertical



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5290.000	109.82	-4.04	96.78			153	90	Average
5290.000	113.28	-4.04	109.24			153	90	Peak
5362.560	57.75	-4.32	53.43	54.00	-0.57	153	90	Average
5362.560	69.24	-4.32	64.92	74.00	-9.08	153	90	Peak

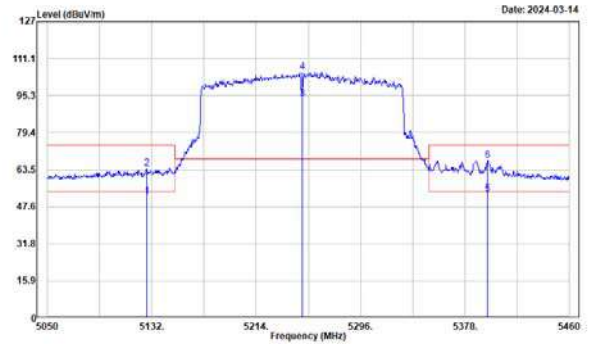
(802.11ax HE160 Mode, 5250 MHz)

Horizontal



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5133.640	55.29	-3.58	51.71	54.00	-2.29	102	232	Average
5133.640	67.45	-3.58	63.87	74.00	-10.13	102	232	Peak
5250.000	95.85	-3.97	91.88			102	232	Average
5250.000	107.81	-3.97	103.84			102	232	Peak
5387.430	55.58	-4.45	51.13	54.00	-2.87	102	232	Average
5387.430	69.42	-4.45	64.97	74.00	-9.03	102	232	Peak

Vertical

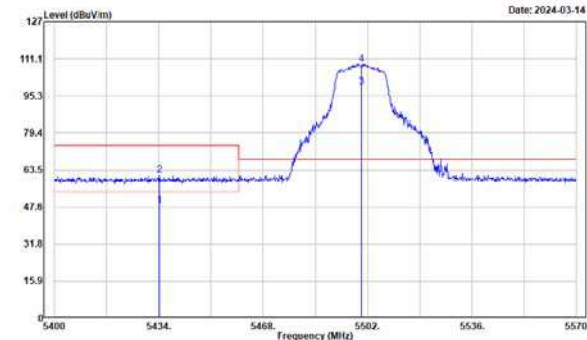


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5128.310	55.54	-3.58	51.96	54.00	-2.04	143	90	Average
5128.310	67.74	-3.58	64.16	74.00	-9.84	143	90	Peak
5250.000	97.82	-3.97	93.85			143	90	Average
5250.000	109.15	-3.97	105.18			143	90	Peak
5395.630	57.58	-4.49	53.09	54.00	-0.91	143	90	Average
5395.630	72.09	-4.49	67.60	74.00	-6.40	143	90	Peak

5470-5725 MHz

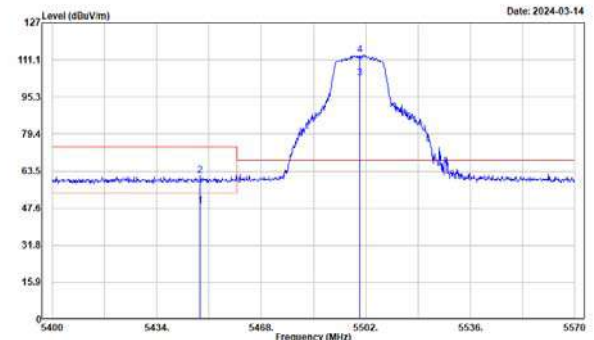
(802.11a Mode, 5500 MHz)

Horizontal



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5434.170	52.79	-4.60	48.19	54.00	-5.81	125	138	Average
5434.170	65.77	-4.60	61.17	74.00	-12.83	125	138	Peak
5500.000	103.57	-4.43	99.14			125	138	Average
5500.000	113.30	-4.43	108.87			125	138	Peak

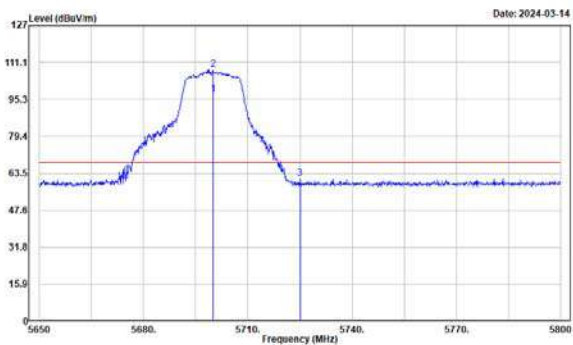
Vertical



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5448.110	53.12	-4.63	48.49	54.00	-5.51	155	85	Average
5448.110	66.27	-4.63	61.64	74.00	-12.36	155	85	Peak
5500.000	107.82	-4.43	103.39			155	85	Average
5500.000	117.64	-4.43	113.21			155	85	Peak

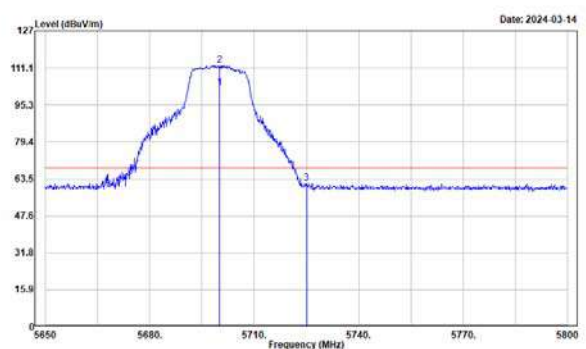
(802.11a Mode, 5700 MHz)

Horizontal



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5700.000	102.63	-5.24	97.39			130	142	Average
5700.000	113.19	-5.24	107.95			130	142	Peak
5725.000	66.28	-5.15	61.13	68.20	-7.07	130	142	Peak

Vertical

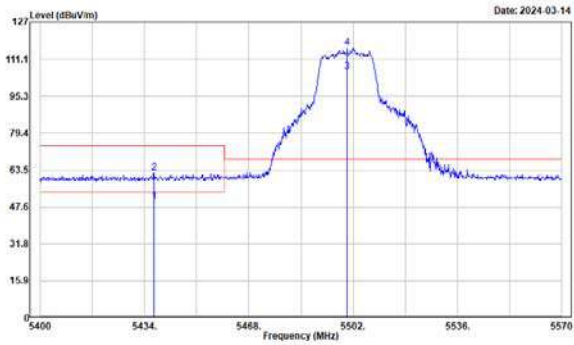


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5700.000	107.89	-5.24	102.65			164	86	Average
5700.000	117.60	-5.24	112.36			164	86	Peak
5725.000	66.63	-5.15	61.48	68.20	-6.72	164	86	Peak

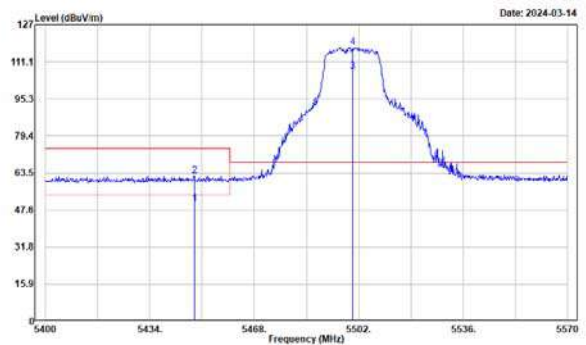
(802.11ac VHT20 Mode, 5500 MHz)

Horizontal

Vertical



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5437.060	54.41	-4.60	49.81	54.00	-4.19	106	274	Average
5437.060	66.78	-4.60	62.18	74.00	-11.82	106	274	Peak
5500.000	110.03	-4.43	105.60			106	274	Average
5500.000	120.29	-4.43	115.86			106	274	Peak

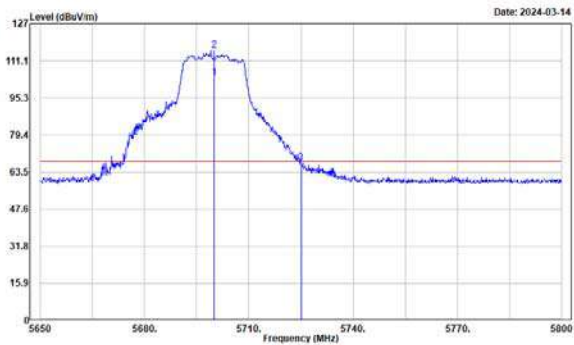


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5448.450	54.80	-4.63	50.17	54.00	-3.83	159	90	Average
5448.450	66.93	-4.63	62.30	74.00	-11.70	159	90	Peak
5500.000	111.58	-4.43	107.15			159	90	Average
5500.000	121.66	-4.43	117.23			159	90	Peak

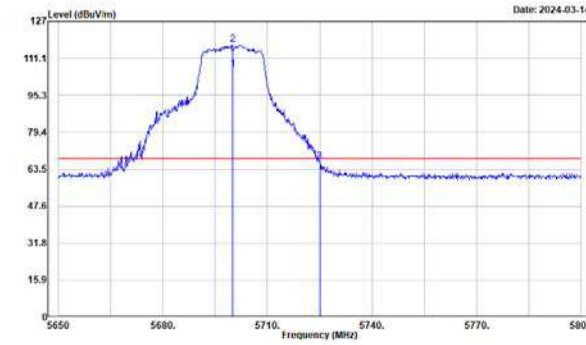
(802.11ac VHT20 Mode, 5700 MHz)

Horizontal

Vertical



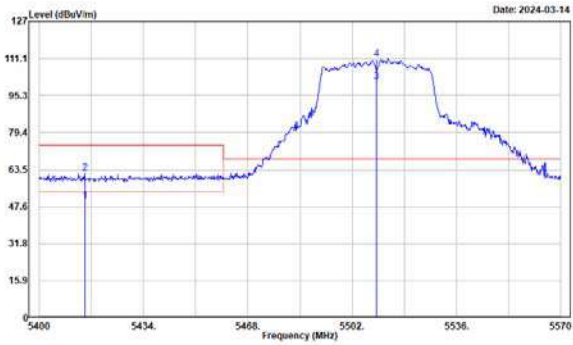
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5700.000	109.03	-5.24	103.79			102	288	Average
5700.000	120.74	-5.24	115.50			102	288	Peak
5725.000	72.68	-5.15	67.53	68.20	-0.67	102	288	Peak



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5700.000	111.54	-5.24	106.30			163	88	Average
5700.000	122.10	-5.24	116.86			163	88	Peak
5725.000	72.06	-5.15	66.91	68.20	-1.29	163	88	Peak

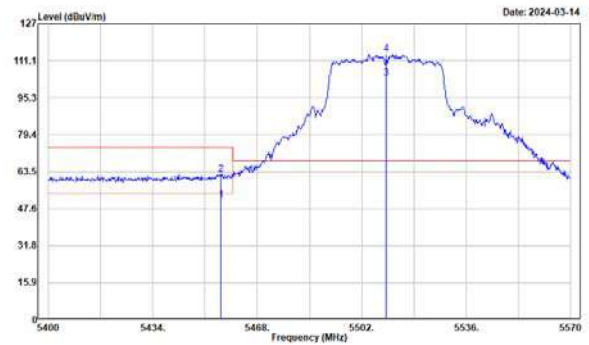
(802.11ac VHT40 Mode, 5510 MHz)

Horizontal



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5414.790	54.47	-4.55	49.92	54.00	-4.08	110	286	Average
5414.790	66.37	-4.55	61.82	74.00	-12.18	110	286	Peak
5510.000	105.46	-4.44	101.02			110	286	Average
5510.000	115.25	-4.44	110.81				286	Peak

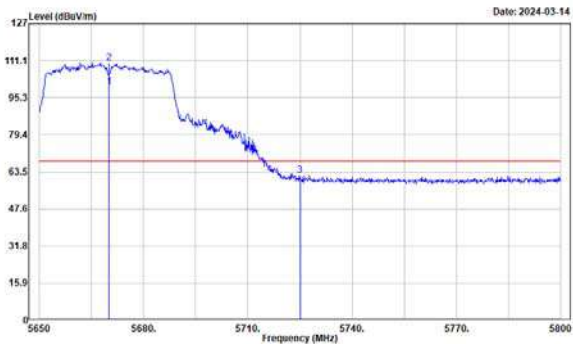
Vertical



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5456.100	55.94	-4.61	51.33	54.00	-2.67	152	89	Average
5456.100	67.02	-4.61	62.41	74.00	-11.59	152	89	Peak
5510.000	108.13	-4.44	103.69			152	89	Average
5510.000	118.46	-4.44	114.02				152	Peak

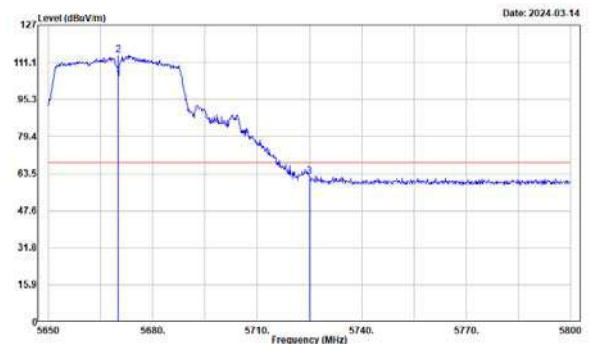
(802.11ac 40Mode, 5670 MHz)

Horizontal



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5670.000	104.90	-5.00	99.90			104	270	Average
5670.000	115.12	-5.00	110.12			104	270	Peak
5725.000	67.06	-5.15	61.91	68.20	-6.29	104	270	Peak

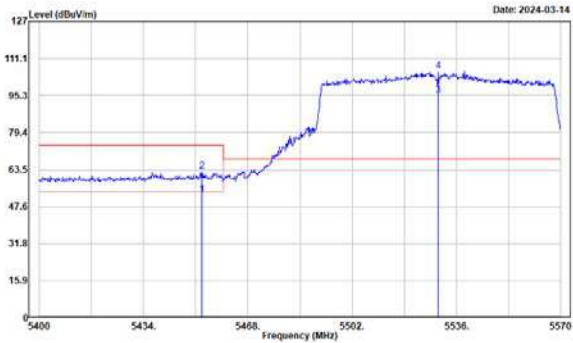
Vertical



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5670.000	109.04	-5.00	104.04			155	89	Average
5670.000	119.37	-5.00	114.37			155	89	Peak
5725.000	67.35	-5.15	62.20	68.20	-6.00	155	89	Peak

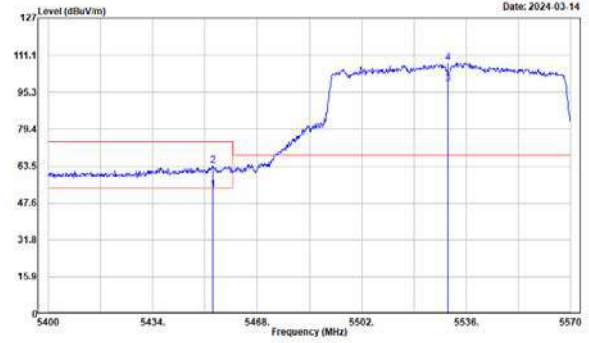
(802.11ac VHT80 Mode, 5530 MHz)

Horizontal



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5453.040	57.36	-4.62	52.74	54.00	-1.26	101	281	Average
5453.040	67.12	-4.62	62.50	74.00	-11.50	101	281	Peak
5530.000	99.86	-4.43	95.43	101	281	101	281	Average
5530.000	109.99	-4.43	105.56	101	281	101	281	Peak

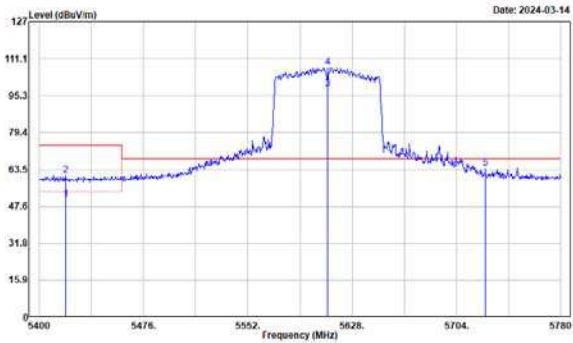
Vertical



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5453.550	57.92	-4.62	53.30	54.00	-0.70	146	85	Average
5453.550	68.19	-4.62	63.57	74.00	-10.43	146	85	Peak
5530.000	103.18	-4.43	98.75	146	85	146	85	Average
5530.000	112.32	-4.43	107.89	146	85	146	85	Peak

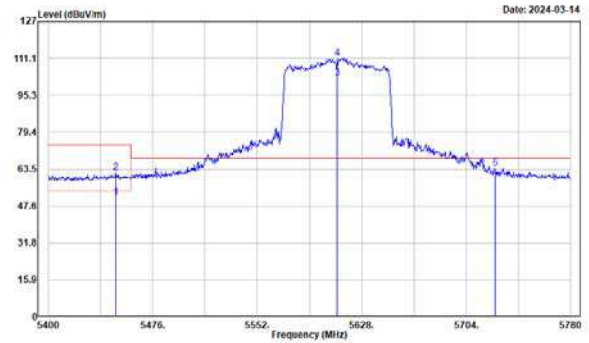
(802.11ac 80Mode, 5610 MHz)

Horizontal



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5419.000	55.29	-4.56	50.73	54.00	-3.27	105	269	Average
5419.000	65.02	-4.56	61.06	74.00	-12.94	105	269	Peak
5610.000	102.82	-4.70	98.12	105	269	105	269	Average
5610.000	111.95	-4.70	107.25	105	269	105	269	Peak
5725.000	69.00	-5.15	63.85	68.20	-4.35	105	269	Peak

Vertical

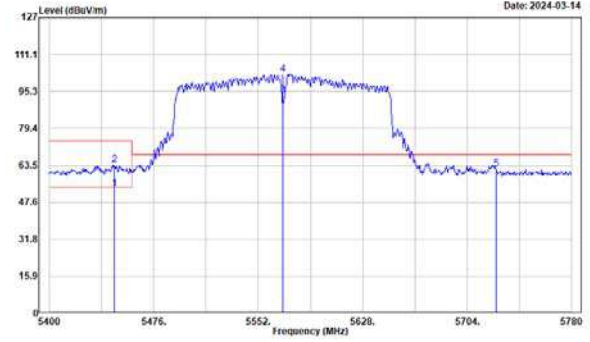
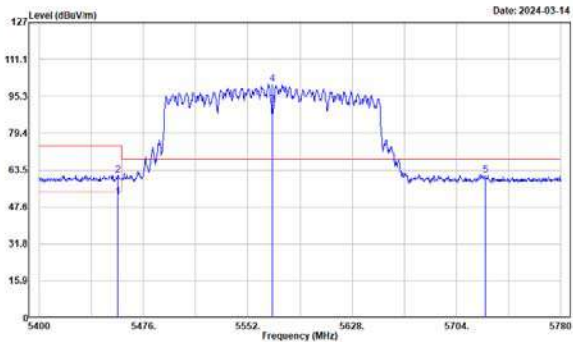


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5449.020	55.79	-4.63	51.16	54.00	-2.84	136	89	Average
5449.020	66.55	-4.63	61.92	74.00	-12.08	136	89	Peak
5610.000	107.43	-4.70	102.73	136	89	136	89	Average
5610.000	115.82	-4.70	111.12	136	89	136	89	Peak
5725.000	68.74	-5.15	63.59	68.20	-4.61	136	89	Peak

(802.11ac VHT160 Mode, 5570 MHz)

Horizontal

Vertical

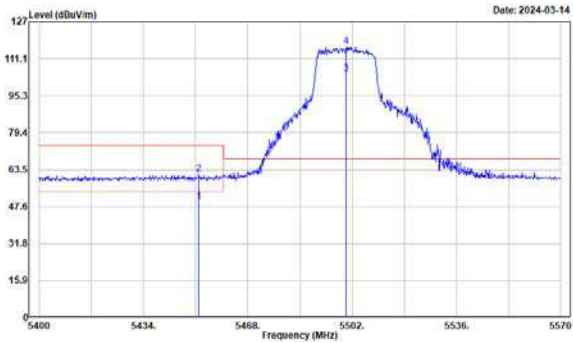


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5457.000	56.55	-4.60	51.95	54.00	-2.05	106	270	Average
5457.000	65.98	-4.60	61.38	74.00	-12.62	106	270	Peak
5570.000	96.10	-4.54	91.56			106	270	Average
5570.000	105.17	-4.54	100.63			106	270	Peak
5725.000	66.40	-5.15	61.25	68.20	-6.95	106	270	Peak

Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5447.120	57.90	-4.62	53.28	54.00	-0.72	147	89	Average
5447.120	68.35	-4.62	63.73	74.00	-10.27	147	89	Peak
5570.000	98.14	-4.54	93.60			147	89	Average
5570.000	107.26	-4.54	102.72			147	89	Peak
5725.000	67.08	-5.15	61.93	68.20	-6.27	147	89	Peak

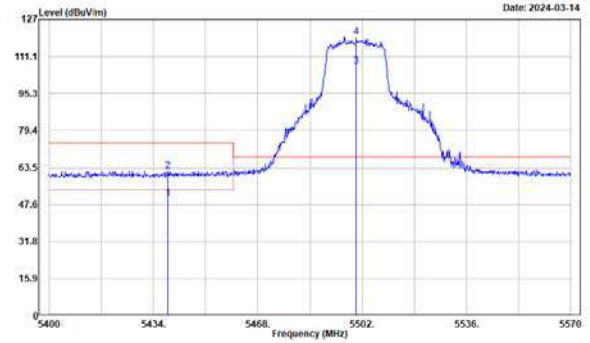
(802.11ax HE20 Mode, 5500 MHz)

Horizontal



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5452.020	54.20	-4.62	49.58	54.00	-4.42	101	283	Average
5452.020	66.12	-4.62	61.50	74.00	-12.50	101	283	Peak
5500.000	109.01	-4.43	104.58			101	283	Average
5500.000	120.88	-4.43	116.45			101	283	Peak

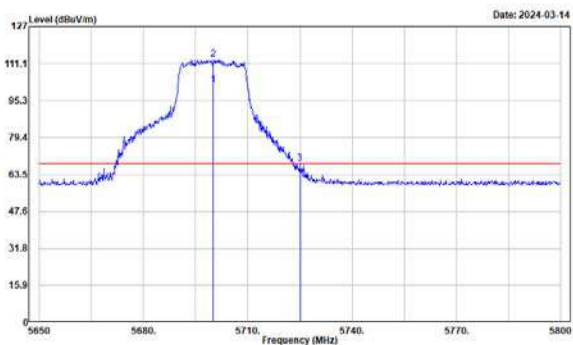
Vertical



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5438.760	54.77	-4.60	50.17	54.00	-3.83	178	87	Average
5438.760	66.57	-4.60	61.97	74.00	-12.03	178	87	Peak
5500.000	111.50	-4.43	107.07			178	87	Average
5500.000	123.73	-4.43	119.30			178	87	Peak

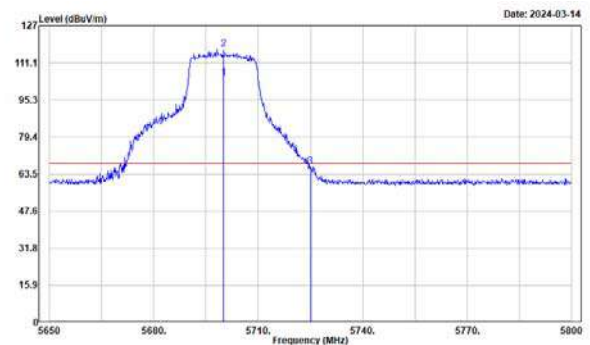
(802.11ax HE20 Mode, 5700 MHz)

Horizontal



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5700.000	106.98	-5.24	101.74			100	288	Average
5700.000	118.18	-5.24	112.94			100	288	Peak
5725.000	73.13	-5.15	67.98	68.20	-0.22	100	288	Peak

Vertical

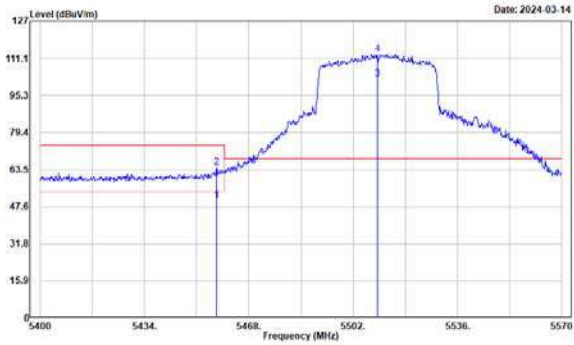


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5700.000	109.83	-5.24	104.59			154	86	Average
5700.000	122.14	-5.24	116.90			154	86	Peak
5725.000	71.86	-5.15	66.71	68.20	-1.49	154	86	Peak

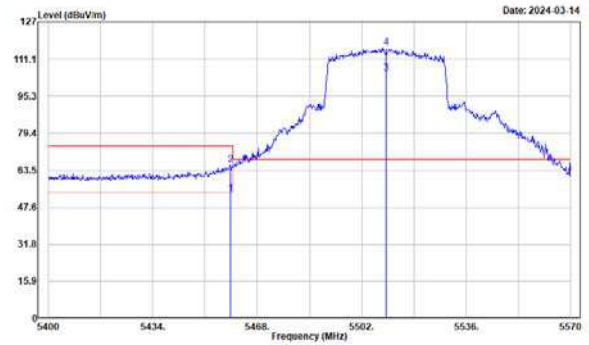
(802.11ax HE40 Mode, 5510 MHz)

Horizontal

Vertical



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5457.460	54.91	-4.60	50.31	54.00	-3.69	112	283	Average
5457.460	68.84	-4.60	64.24	74.00	-9.76	112	283	Peak
5510.000	106.56	-4.44	102.12			112	283	Average
5510.000	117.30	-4.44	112.86			112	283	Peak

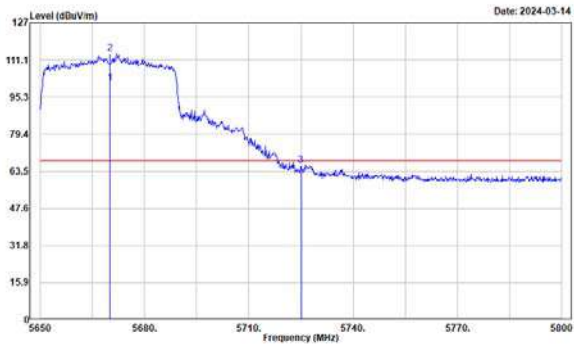


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5459.160	57.78	-4.59	53.19	54.00	-0.81	154	87	Average
5459.160	70.26	-4.59	65.67	74.00	-8.33	154	87	Peak
5510.000	109.32	-4.44	104.88			154	87	Average
5510.000	120.47	-4.44	116.03			154	87	Peak

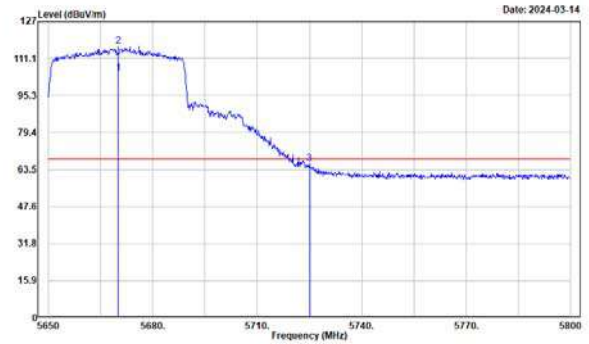
(802.11ax HE40 Mode, 5670 MHz)

Horizontal

Vertical



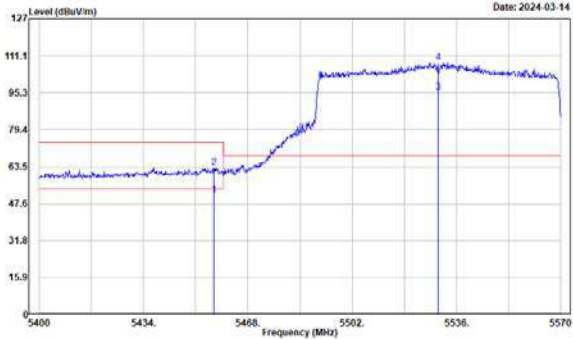
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5670.000	106.06	-5.00	101.06			108	271	Average
5670.000	118.75	-5.00	113.75			108	271	Peak
5725.000	71.17	-5.15	66.02	68.20	-2.18	108	271	Peak



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5670.000	109.53	-5.00	104.53			138	86	Average
5670.000	121.23	-5.00	116.23			138	86	Peak
5725.000	71.33	-5.15	66.18	68.20	-2.02	138	86	Peak

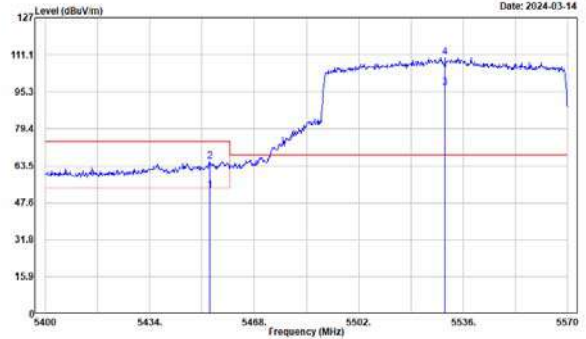
(802.11ax HE80 Mode, 5530 MHz)

Horizontal



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5456.950	55.81	-4.60	51.21	54.00	-2.79	104	283	Average
5456.950	67.71	-4.60	63.11	74.00	-10.89	104	283	Peak
5530.000	99.65	-4.43	95.22			104	283	Average
5530.000	112.63	-4.43	108.20			104	283	Peak

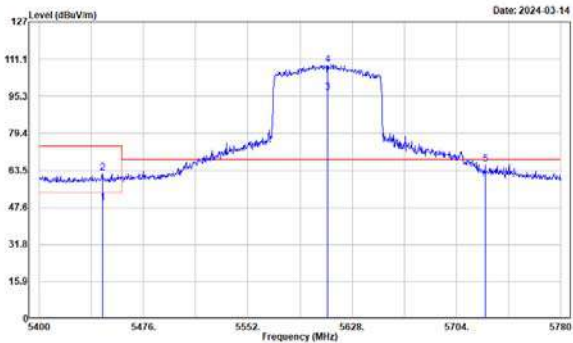
Vertical



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5453.550	57.79	-4.62	53.17	54.00	-0.83	131	88	Average
5453.550	69.88	-4.62	65.26	74.00	-8.74	131	88	Peak
5530.000	101.62	-4.43	97.19			131	88	Average
5530.000	114.71	-4.43	110.28			131	88	Peak

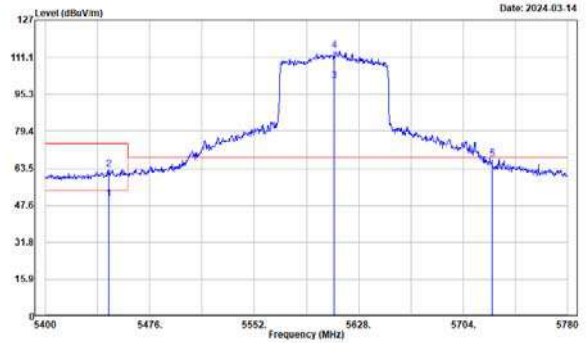
(802.11ax HE80 Mode, 5610 MHz)

Horizontal



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5445.980	54.12	-4.62	49.50	54.00	-4.50	104	273	Average
5445.980	67.06	-4.62	62.44	74.00	-11.56	104	273	Peak
5610.000	101.27	-4.70	96.57			104	273	Average
5610.000	113.35	-4.70	108.65			104	273	Peak
5725.000	71.20	-5.15	66.05	68.20	-2.15	104	273	Peak

Vertical

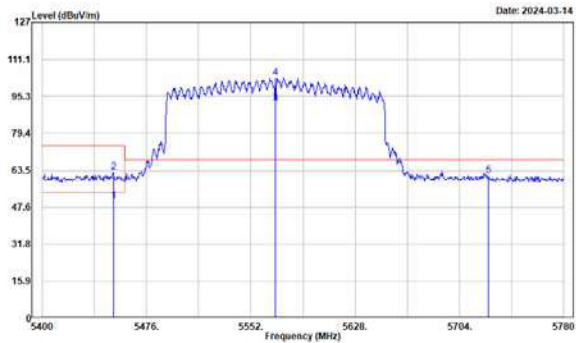


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5445.980	54.83	-4.62	50.21	54.00	-3.79	135	90	Average
5445.980	67.61	-4.62	62.99	74.00	-11.01	135	90	Peak
5610.000	105.44	-4.70	100.74			135	90	Average
5610.000	118.51	-4.70	113.81			135	90	Peak
5725.000	72.54	-5.15	67.39	68.20	-0.81	135	90	Peak

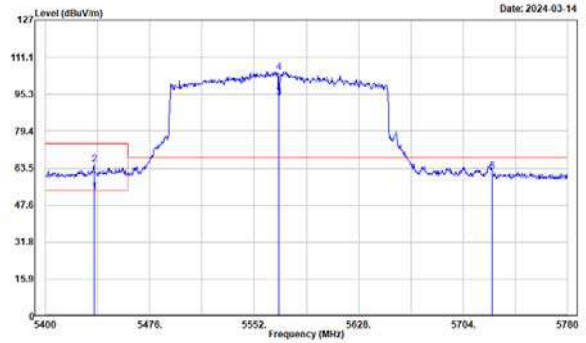
(802.11ax HE160 Mode, 5570 MHz)

Horizontal

Vertical



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5451.680	54.79	-4.62	50.17	54.00	-3.83	100	286	Average
5451.680	67.10	-4.62	62.48	74.00	-11.52	100	286	Peak
5570.000	96.71	-4.54	92.17			100	286	Average
5570.000	107.72	-4.54	103.18			100	286	Peak
5725.000	66.25	-5.15	61.10	68.20	-7.10	100	286	Peak



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5435.340	58.07	-4.60	53.47	54.00	-0.53	135	89	Average
5435.340	69.55	-4.60	64.95	74.00	-9.05	135	89	Peak
5570.000	98.35	-4.54	93.81			135	89	Average
5570.000	109.26	-4.54	104.72			135	89	Peak
5725.000	67.18	-5.15	62.03	68.20	-6.17	135	89	Peak

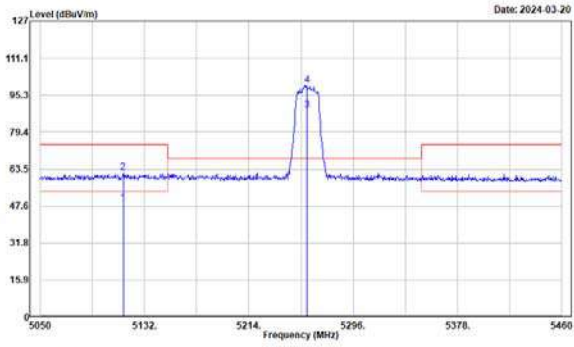
Beamforming Mode:

5250-5350 MHz

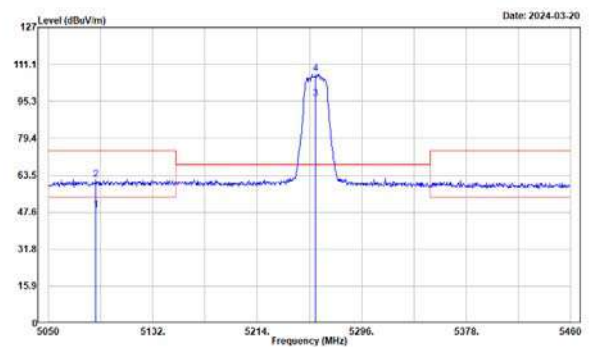
(802.11ac VHT20 Mode, 5260 MHz)

Horizontal

Vertical



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5115.190	52.26	-3.56	48.70	54.00	-5.30	105	91	Average
5115.190	65.60	-3.56	62.04	74.00	-11.96	105	91	Peak
5260.000	92.75	-3.98	88.77			105	91	Average
5260.000	103.43	-3.98	99.45			105	91	Peak

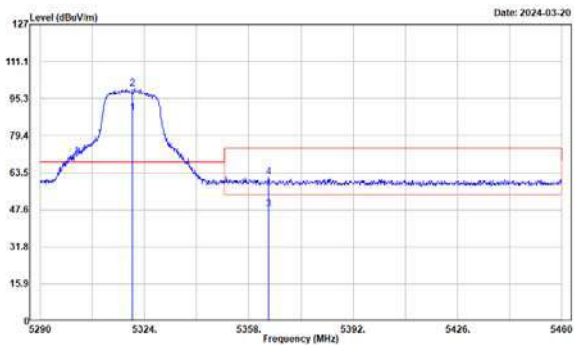


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5087.310	52.20	-3.60	48.60	54.00	-5.40	271	187	Average
5087.310	65.17	-3.60	61.57	74.00	-12.43	271	187	Peak
5260.000	100.36	-3.98	96.38			271	187	Average
5260.000	110.94	-3.98	106.96			271	187	Peak

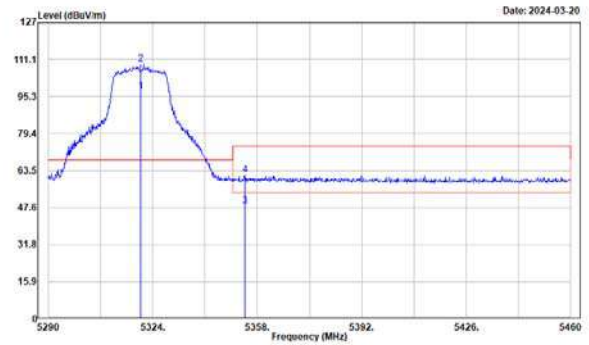
(802.11ac VHT20 Mode, 5320 MHz)

Horizontal

Vertical



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5320.000	93.27	-4.13	89.14			100	93	Average
5320.000	103.64	-4.13	99.51			100	93	Peak
5364.460	52.18	-4.32	47.86	54.00	-6.14	100	93	Average
5364.460	66.02	-4.32	61.70	74.00	-12.30	100	93	Peak

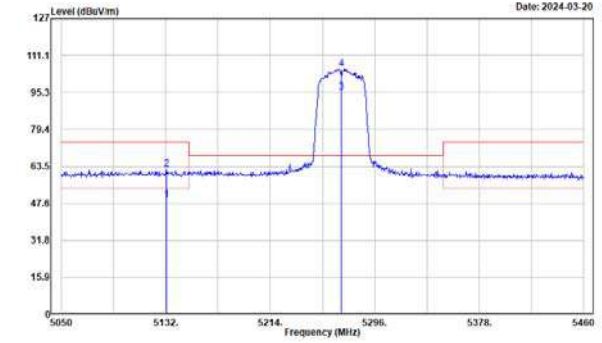
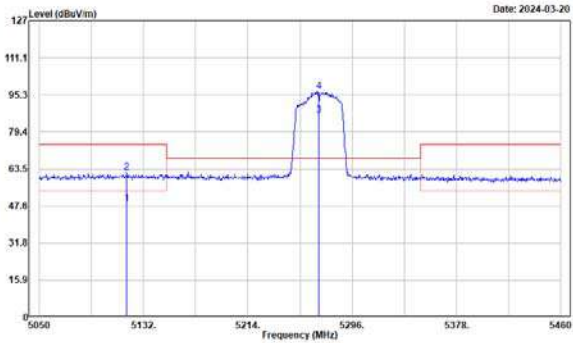


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5320.000	101.57	-4.13	97.44			285	186	Average
5320.000	113.30	-4.13	109.17			285	186	Peak
5353.920	52.34	-4.26	48.08	54.00	-5.92	285	186	Average
5353.920	65.82	-4.26	61.56	74.00	-12.44	285	186	Peak

(802.11ac VHT40 Mode, 5270 MHz)

Horizontal

Vertical



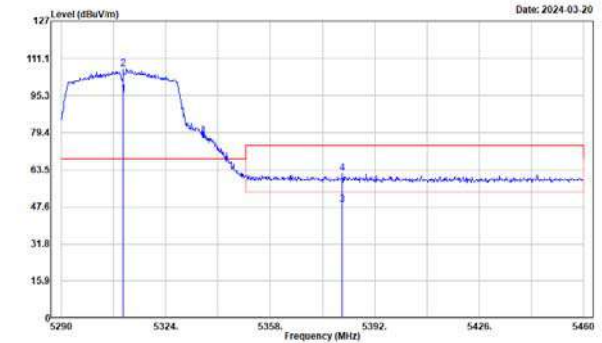
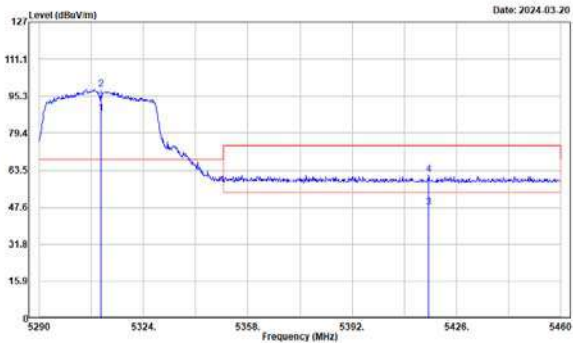
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5118.880	52.12	-3.56	48.56	54.00	-5.44	111	118	Average
5118.880	65.68	-3.56	62.12	74.00	-11.88	111	118	Peak
5270.000	96.28	-4.00	86.28			111	118	Average
5270.000	100.59	-4.00	96.59			111	118	Peak

Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5132.410	52.94	-3.58	49.36	54.00	-4.64	277	183	Average
5132.410	65.82	-3.58	62.24	74.00	-11.76	277	183	Peak
5270.000	99.50	-4.00	95.50			277	183	Average
5270.000	109.46	-4.00	105.46			277	183	Peak

(802.11ac VHT40 Mode, 5310 MHz)

Horizontal

Vertical

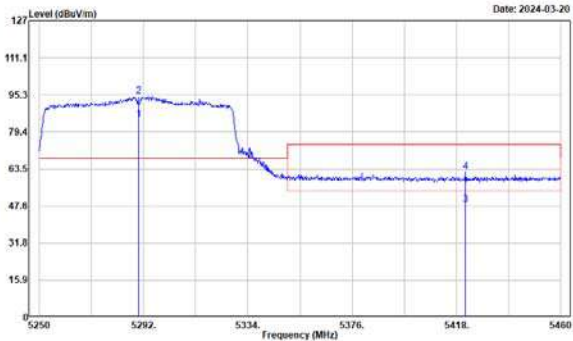


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5310.000	91.80	-4.09	87.79			103	93	Average
5310.000	102.33	-4.09	98.24			103	93	Peak
5416.990	52.18	-4.55	47.63	54.00	-6.37	103	93	Average
5416.990	66.01	-4.55	61.46	74.00	-12.54	103	93	Peak

Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5310.000	99.74	-4.09	95.65			274	182	Average
5310.000	110.64	-4.09	106.55			274	182	Peak
5381.460	52.78	-4.42	48.36	54.00	-5.64	274	182	Average
5381.460	66.22	-4.42	61.80	74.00	-12.20	274	182	Peak

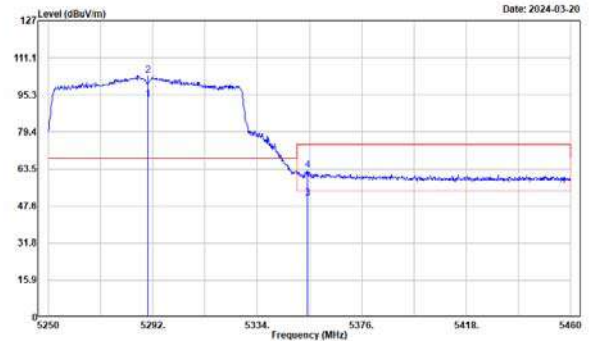
(802.11ac VHT80 Mode, 5290 MHz)

Horizontal



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5290.000	88.56	-4.04	84.52			126	92	Average
5290.000	98.69	-4.04	94.65			126	92	Peak
5421.570	52.85	-4.57	48.28	54.00	-5.72	126	92	Average
5421.570	66.96	-4.57	62.39	74.00	-11.61	126	92	Peak

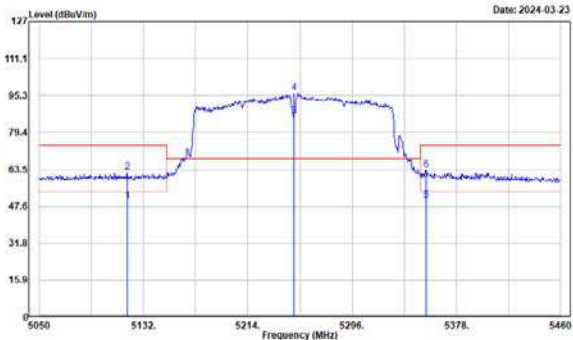
Vertical



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5290.000	97.26	-4.04	93.22			294	185	Average
5290.000	107.60	-4.04	103.56			294	185	Peak
5354.160	55.27	-4.26	51.01	54.00	-2.99	294	185	Average
5354.160	67.19	-4.26	62.93	74.00	-11.07	294	185	Peak

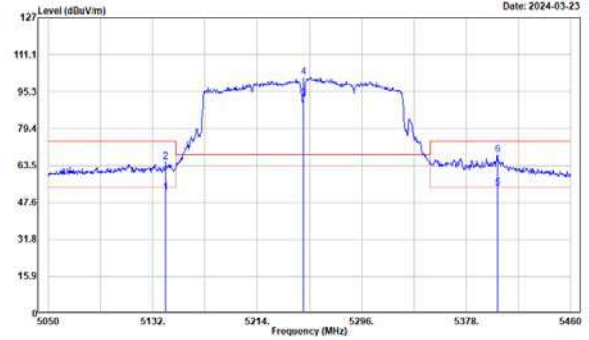
(802.11ac VHT160 Mode, 5250 MHz)

Horizontal



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5119.290	53.36	-3.56	49.80	54.00	-4.20	116	95	Average
5119.290	65.73	-3.56	62.17	74.00	-11.83	116	95	Peak
5250.000	90.29	-3.97	86.32			116	95	Average
5250.000	100.44	-3.97	96.47			116	95	Peak
5354.220	54.50	-4.27	50.23	54.00	-3.77	116	95	Average
5354.220	67.66	-4.27	63.39	74.00	-10.61	116	95	Peak

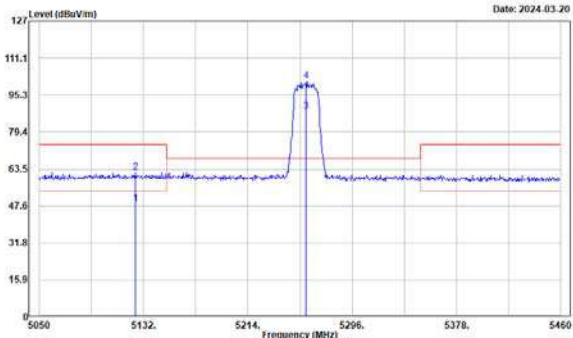
Vertical



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5142.250	55.72	-3.59	52.13	54.00	-1.87	132	71	Average
5142.250	68.54	-3.59	64.95	74.00	-9.05	132	71	Peak
5250.000	96.04	-3.97	92.07			132	71	Average
5250.000	105.41	-3.97	101.44			132	71	Peak
5402.600	58.37	-4.54	53.83	54.00	-0.17	132	71	Average
5402.600	72.55	-4.54	68.01	74.00	-5.99	132	71	Peak

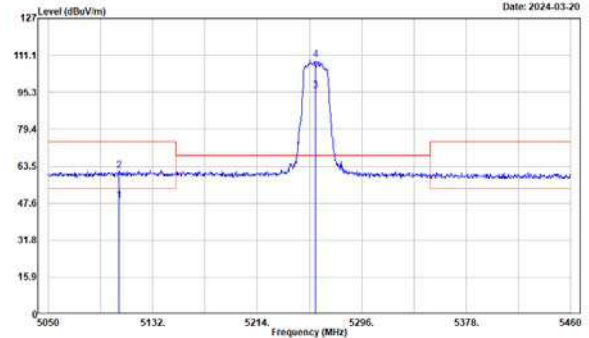
(802.11ax HE20 Mode, 5260 MHz)

Horizontal



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5125.440	52.24	-3.58	48.66	54.00	-5.34	107	91	Average
5125.440	65.66	-3.58	62.08	74.00	-11.92	107	91	Peak
5260.000	92.03	-3.98	88.05			107	91	Average
5260.000	105.21	-3.98	101.23			107	91	Peak

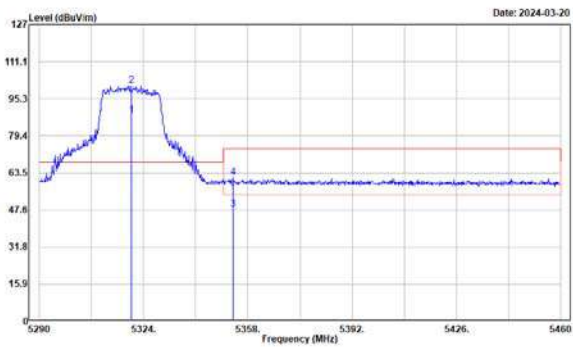
Vertical



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5105.350	52.37	-3.55	48.82	54.00	-5.18	263	186	Average
5105.350	65.16	-3.55	61.61	74.00	-12.39	263	186	Peak
5260.000	99.93	-3.98	95.95			263	186	Average
5260.000	113.11	-3.98	109.13			263	186	Peak

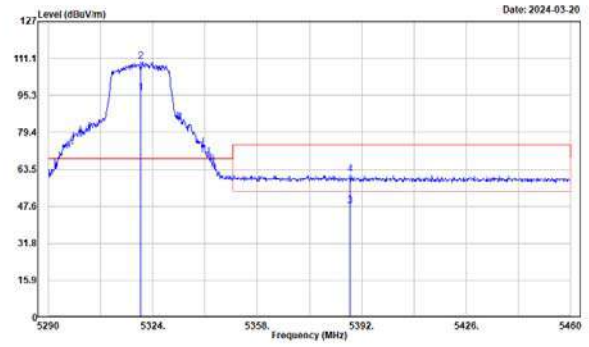
(802.11ax HE20 Mode, 5320 MHz)

Horizontal



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5320.000	92.13	-4.13	88.00			103	92	Average
5320.000	104.88	-4.13	100.75			103	92	Peak
5353.240	52.23	-4.26	47.97	54.00	-6.03	103	92	Average
5353.240	65.87	-4.26	61.61	74.00	-12.39	103	92	Peak

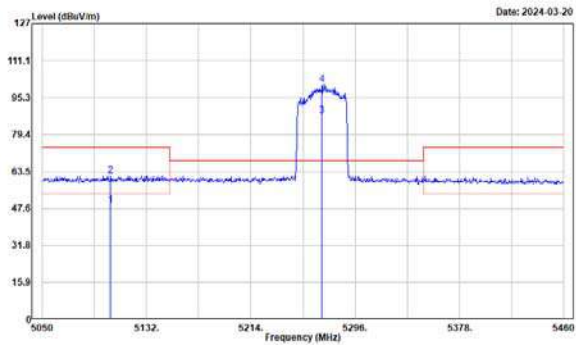
Vertical



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5320.000	100.65	-4.13	96.52			287	184	Average
5320.000	113.81	-4.13	109.68			287	184	Peak
5388.260	52.37	-4.46	47.91	54.00	-6.09	287	184	Average
5388.260	65.63	-4.46	61.17	74.00	-12.83	287	184	Peak

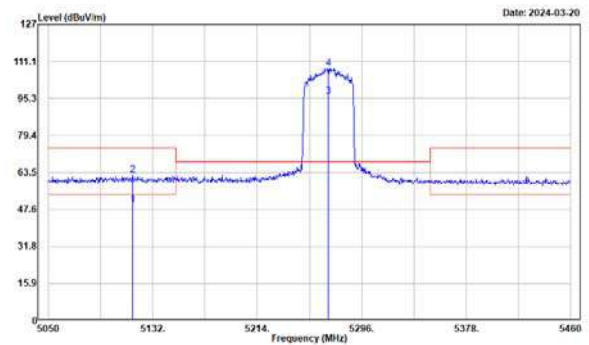
(802.11ax HE40 Mode, 5270 MHz)

Horizontal



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5103.710	52.52	-3.54	48.98	54.00	-5.02	110	119	Average
5103.710	65.17	-3.54	61.63	74.00	-12.37	110	119	Peak
5270.000	91.45	-4.00	87.45			110	119	Average
5270.000	104.94	-4.00	100.94				119	Peak

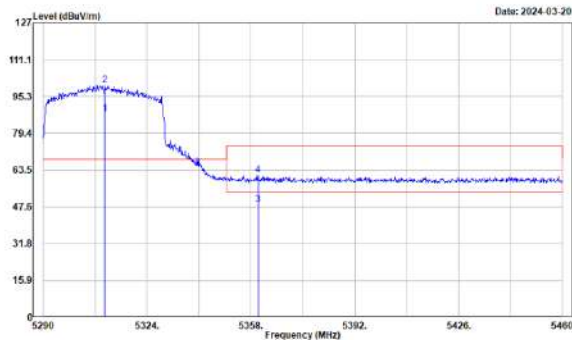
Vertical



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5116.010	53.07	-3.56	49.51	54.00	-4.49	278	183	Average
5116.010	65.92	-3.56	62.36	74.00	-11.64	278	183	Peak
5270.000	100.08	-4.00	96.08			278	183	Average
5270.000	112.16	-4.00	108.16				183	Peak

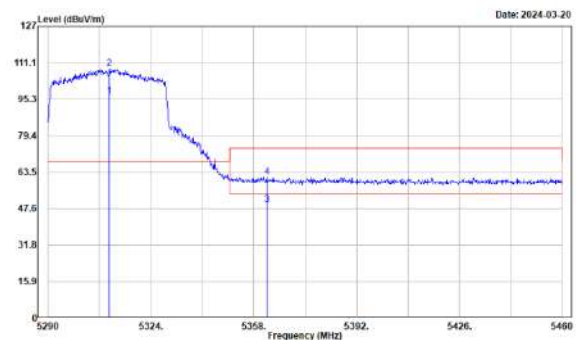
(802.11ax HE40 Mode, 5310 MHz)

Horizontal



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5310.000	92.00	-4.09	87.91			102	96	Average
5310.000	104.34	-4.09	100.25			102	96	Peak
5360.380	52.68	-4.30	48.38	54.00	-5.62	102	96	Average
5360.380	65.62	-4.30	61.32	74.00	-12.68	102	96	Peak

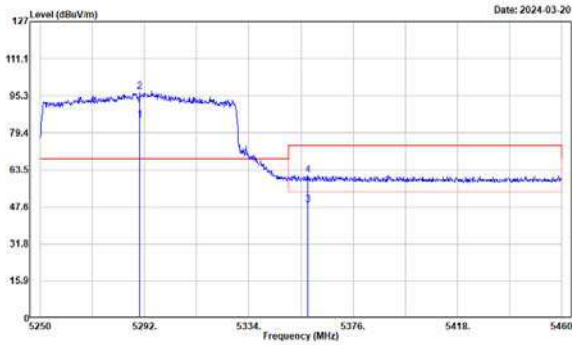
Vertical



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5310.000	100.41	-4.09	96.32			273	186	Average
5310.000	112.47	-4.09	108.38			273	186	Peak
5362.250	53.44	-4.31	49.13	54.00	-4.87	273	186	Average
5362.250	65.62	-4.31	61.31	74.00	-12.69	273	186	Peak

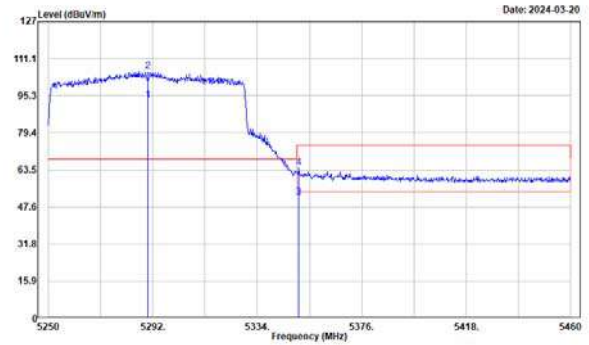
(802.11ax HE80 Mode, 5290 MHz)

Horizontal



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5290.000	88.63	-4.04	84.59			128	91	Average
5290.000	101.22	-4.04	97.18			128	91	Peak
5357.730	52.72	-4.29	48.43	54.00	-5.57	128	91	Average
5357.730	65.60	-4.29	61.31	74.00	-12.69	128	91	Peak

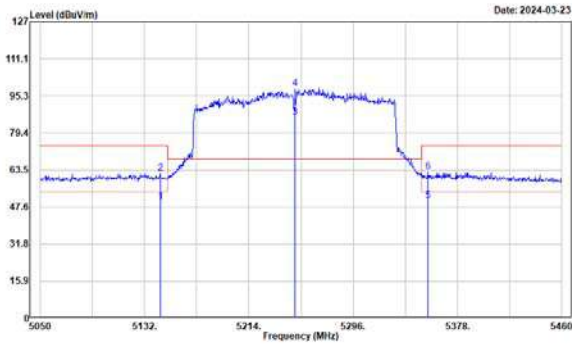
Vertical



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5290.000	97.20	-4.04	93.16			291	187	Average
5290.000	109.81	-4.04	105.77			291	187	Peak
5350.800	55.71	-4.23	51.48	54.00	-2.52	291	187	Average
5350.800	68.54	-4.23	64.31	74.00	-9.69	291	187	Peak

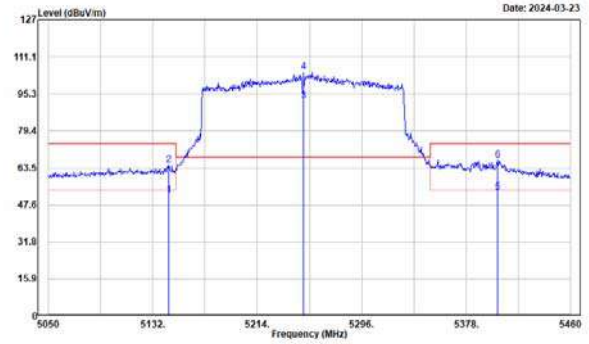
(802.11ax HE160 Mode, 5250 MHz)

Horizontal



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5144.300	53.32	-3.59	49.73	54.00	-4.27	126	96	Average
5144.300	65.55	-3.59	61.96	74.00	-12.04	126	96	Peak
5250.000	90.03	-3.97	86.06			126	96	Average
5250.000	102.40	-3.97	98.43			126	96	Peak
5354.630	54.52	-4.27	50.25	54.00	-3.75	126	96	Average
5354.630	66.81	-4.27	62.54	74.00	-11.46	126	96	Peak

Vertical



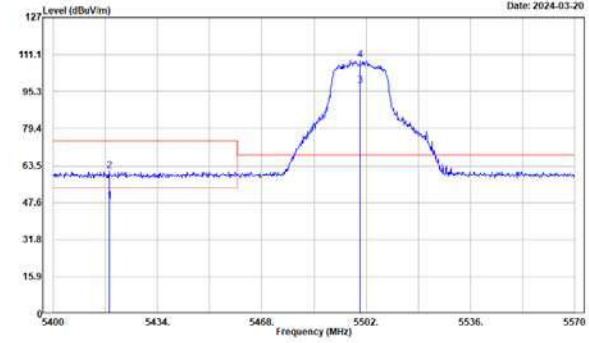
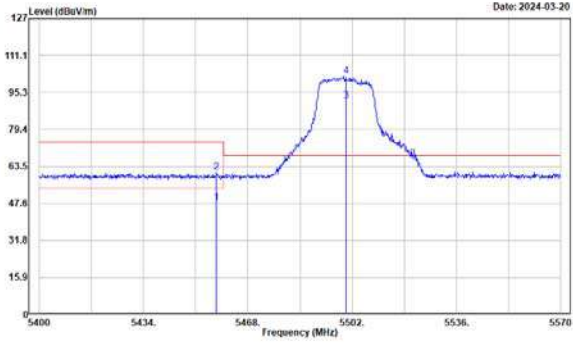
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5144.710	55.27	-3.59	51.68	54.00	-2.32	135	71	Average
5144.710	68.28	-3.59	64.69	74.00	-9.31	135	71	Peak
5250.000	96.18	-3.97	92.21			135	71	Average
5250.000	108.51	-3.97	104.54			135	71	Peak
5403.010	57.67	-4.54	53.13	54.00	-0.87	135	71	Average
5403.010	71.35	-4.54	66.81	74.00	-7.19	135	71	Peak

5470-5725 MHz

(802.11ac VHT20 Mode, 5500 MHz)

Horizontal

Vertical



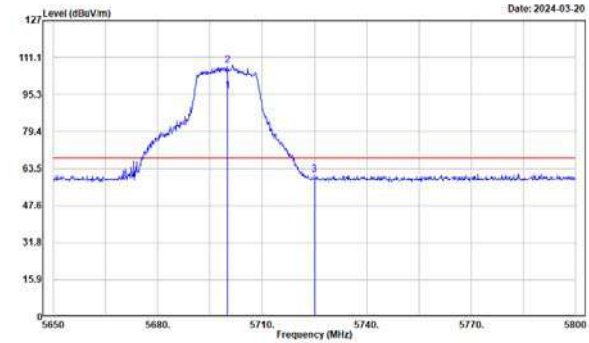
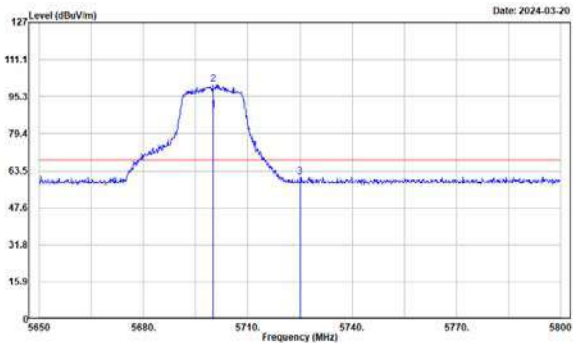
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5457.800	52.29	-4.60	47.69	54.00	-6.31	278	115	Average
5457.800	65.47	-4.60	60.87	74.00	-13.13	278	115	Peak
5500.000	96.12	-4.43	91.69			278	115	Average
5500.000	106.80	-4.43	102.37			278	115	Peak

Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5418.190	52.71	-4.56	48.15	54.00	-5.85	288	182	Average
5418.190	65.96	-4.56	61.40	74.00	-12.60	288	182	Peak
5500.000	102.22	-4.43	97.79			288	182	Average
5500.000	113.11	-4.43	108.68			288	182	Peak

(802.11ac VHT20 Mode, 5700 MHz)

Horizontal

Vertical

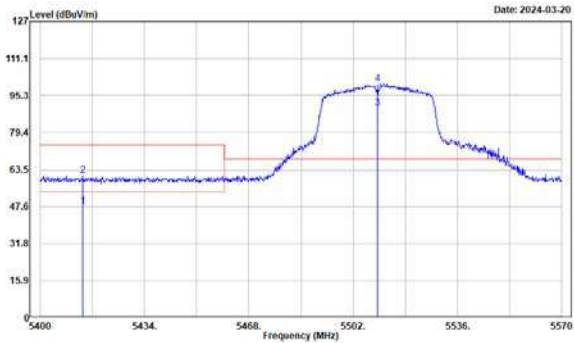


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5700.000	94.56	-5.24	89.32			283	116	Average
5700.000	105.80	-5.24	100.56			283	116	Peak
5725.000	66.21	-5.15	61.06	68.20	-7.14	283	116	Peak

Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5700.000	101.80	-5.24	96.56			110	117	Average
5700.000	112.87	-5.24	107.63			110	117	Peak
5725.000	66.14	-5.15	60.99	68.20	-7.21	110	117	Peak

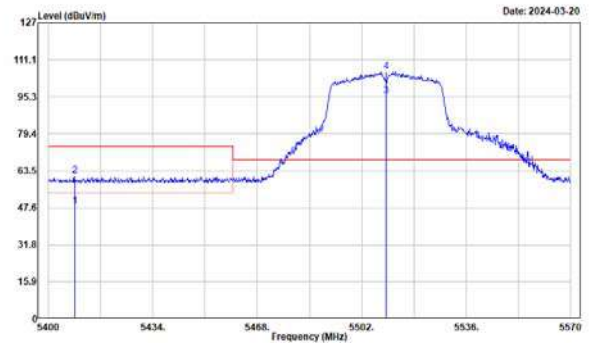
(802.11ac VHT40 Mode, 5510 MHz)

Horizontal



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5413.770	52.35	-4.55	47.80	54.00	-6.20	286	116	Average
5413.770	65.37	-4.55	60.82	74.00	-13.18	286	116	Peak
5510.000	94.16	-4.44	89.72	286		116		Average
5510.000	104.74	-4.44	100.30			286	116	Peak

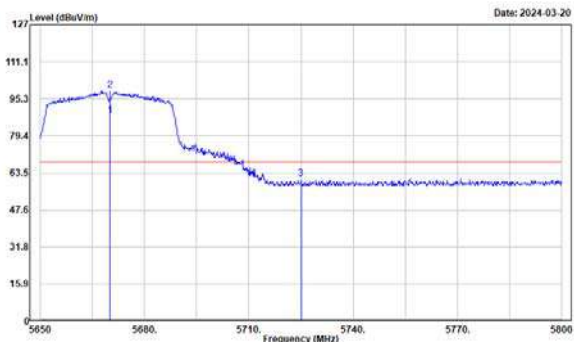
Vertical



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5408.500	52.62	-4.55	48.07	54.00	-5.93	271	184	Average
5408.500	65.00	-4.55	61.25	74.00	-12.75	271	184	Peak
5510.000	100.02	-4.44	95.58			271	184	Average
5510.000	110.52	-4.44	106.08			271	184	Peak

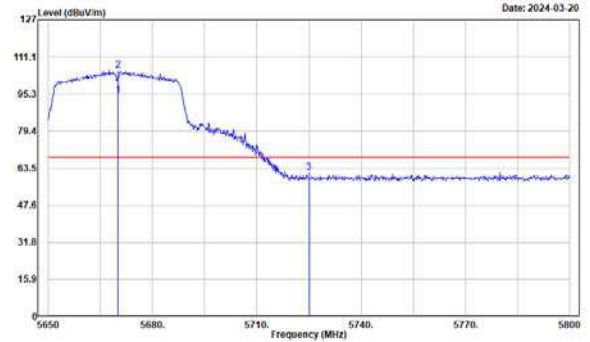
(802.11ac VHT40 Mode, 5670 MHz)

Horizontal



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5670.000	93.27	-5.00	88.27			254	118	Average
5670.000	103.61	-5.00	98.61			254	118	Peak
5725.000	65.99	-5.15	60.84	68.20	-7.36	254	118	Peak

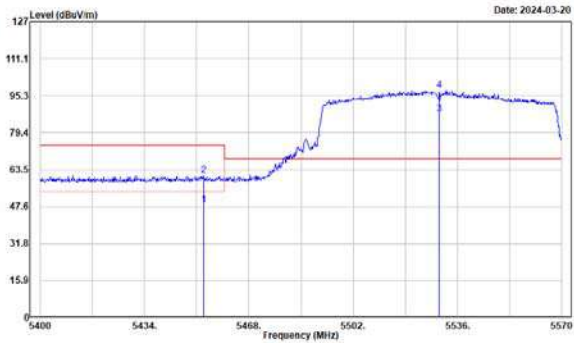
Vertical



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5670.000	99.49	-5.00	94.49			109	118	Average
5670.000	110.16	-5.00	105.16			109	118	Peak
5725.000	66.75	-5.15	61.60	68.20	-6.60	109	118	Peak

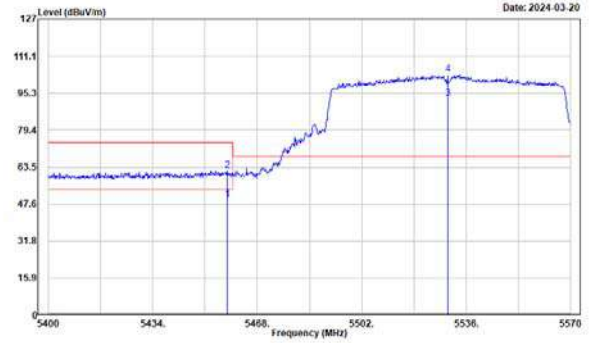
(802.11ac VHT80 Mode, 5530 MHz)

Horizontal



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5453.380	52.75	-4.62	48.13	54.00	-5.87	288	116	Average
5453.380	65.54	-4.62	60.92	74.00	-13.08	288	116	Peak
5530.000	91.75	-4.43	87.32	288	116			Average
5530.000	101.91	-4.43	97.48	288	116			Peak

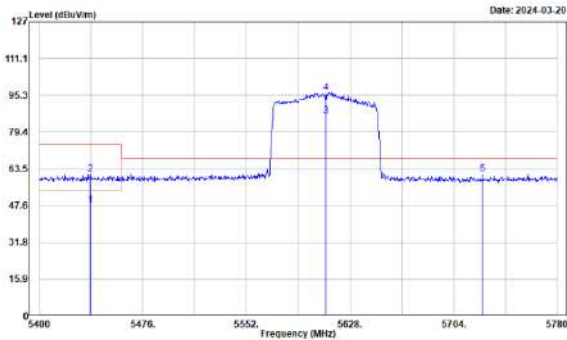
Vertical



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5458.140	54.30	-4.60	49.70	54.00	-4.30	281	181	Average
5458.140	66.54	-4.60	61.94	74.00	-12.06	281	181	Peak
5530.000	97.32	-4.43	92.89	281	181			Average
5530.000	107.79	-4.43	103.36	281	181			Peak

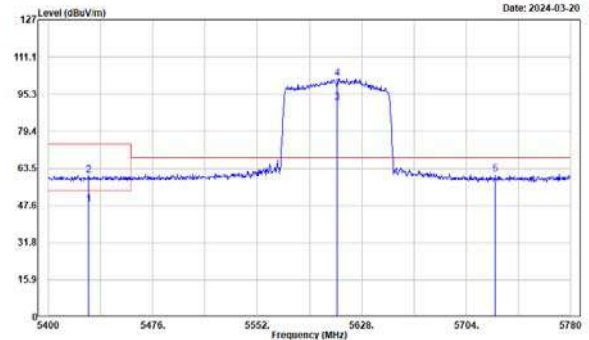
(802.11ac VHT80 Mode, 5610 MHz)

Horizontal



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5437.240	52.58	-4.60	47.98	54.00	-6.02	295	118	Average
5437.240	66.03	-4.60	61.43	74.00	-12.57	295	118	Peak
5610.000	90.95	-4.70	86.25	295	118			Average
5610.000	100.92	-4.70	96.22	295	118			Peak
5725.000	66.36	-5.15	61.21	68.20	-6.99	295	118	Peak

Vertical

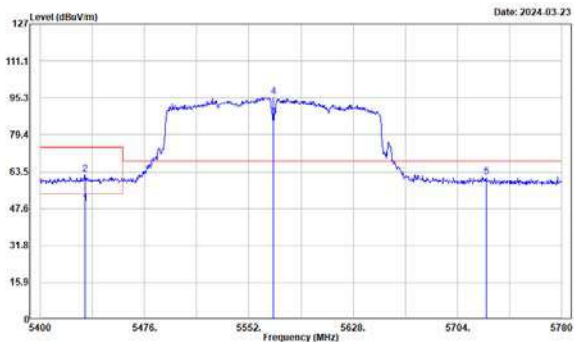


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5429.260	52.80	-4.59	48.21	54.00	-5.79	274	174	Average
5429.260	65.23	-4.59	60.64	74.00	-13.36	274	174	Peak
5610.000	96.33	-4.70	91.63	274	174			Average
5610.000	106.58	-4.70	101.88	274	174			Peak
5725.000	66.04	-5.15	60.89	68.20	-7.31	274	174	Peak

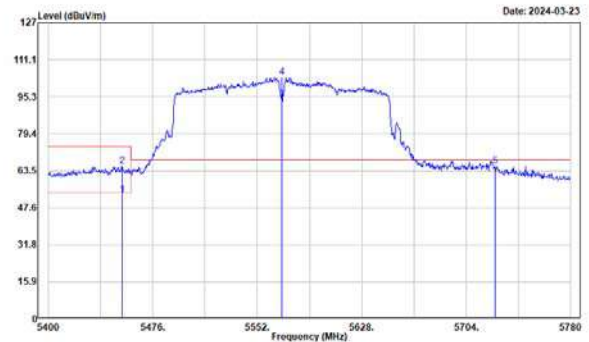
(802.11ac VHT160 Mode, 5570 MHz)

Horizontal

Vertical



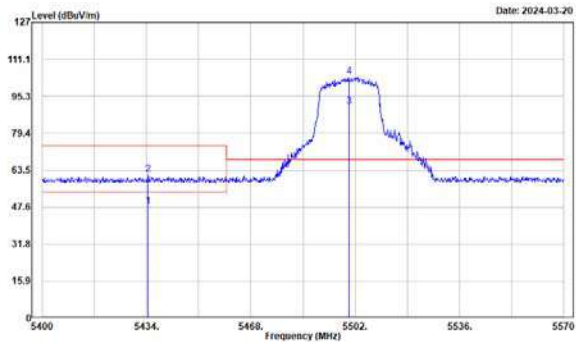
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5432.680	54.14	-4.60	49.54	54.00	-4.46	106	113	Average
5432.680	67.05	-4.60	62.45	74.00	-11.55	106	113	Peak
5570.000	91.16	-4.54	86.62			106	113	Average
5570.000	100.12	-4.54	95.58			106	113	Peak
5725.000	66.36	-5.15	61.21	68.20	-6.99	106	113	Peak



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5453.960	57.58	-4.61	52.97	54.00	-1.03	146	74	Average
5453.960	70.13	-4.61	65.52	74.00	-8.48	146	74	Peak
5570.000	98.52	-4.54	93.98			146	74	Average
5570.000	108.21	-4.54	103.67			146	74	Peak
5725.000	70.58	-5.15	65.43	68.20	-2.77	146	74	Peak

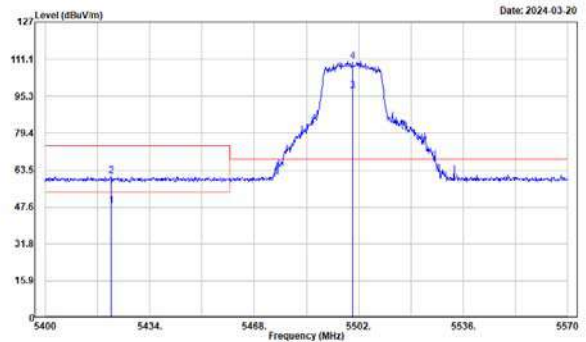
(802.11ax HE20 Mode, 5500 MHz)

Horizontal



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5434.510	52.40	-4.60	47.80	54.00	-6.20	124	118	Average
5434.510	66.30	-4.60	61.70	74.00	-12.30	124	118	Peak
5500.000	95.42	-4.43	90.99			124	118	Average
5500.000	108.07	-4.43	103.64			124	118	Peak

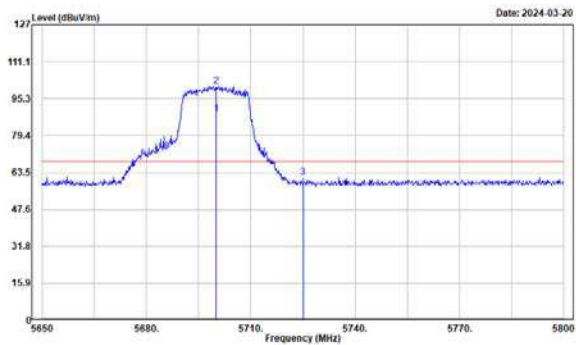
Vertical



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5421.420	52.60	-4.57	48.03	54.00	-5.97	290	183	Average
5421.420	65.50	-4.57	60.93	74.00	-13.07	290	183	Peak
5500.000	101.82	-4.43	97.39			290	183	Average
5500.000	114.41	-4.43	109.98			290	183	Peak

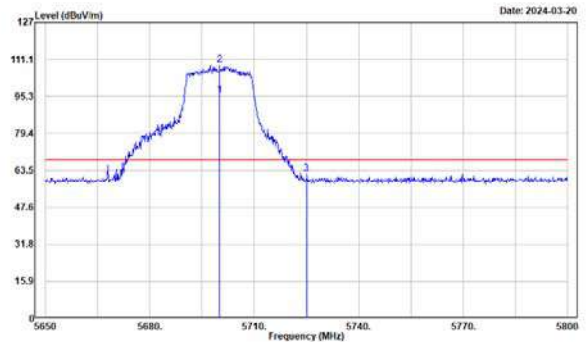
(802.11ax HE20 Mode, 5700 MHz)

Horizontal



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5700.000	93.50	-5.24	88.26			284	116	Average
5700.000	105.84	-5.24	100.60			284	116	Peak
5725.000	66.43	-5.15	61.28	68.20	-6.92	284	116	Peak

Vertical

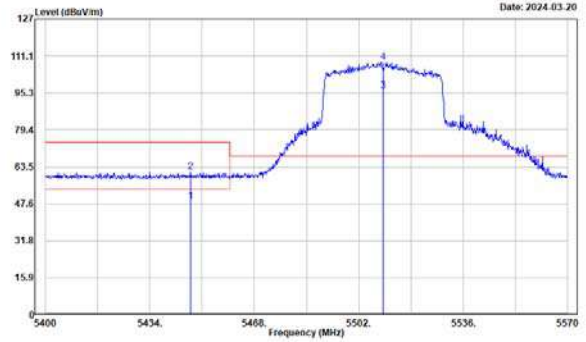
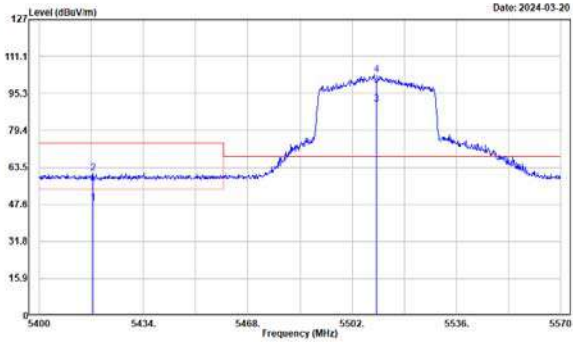


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5700.000	100.75	-5.24	95.51			110	118	Average
5700.000	114.13	-5.24	108.89			110	118	Peak
5725.000	67.25	-5.15	62.10	68.20	-6.10	110	118	Peak

(802.11ax HE40 Mode, 5510 MHz)

Horizontal

Vertical



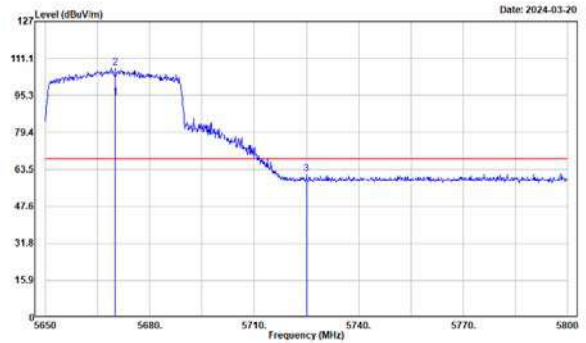
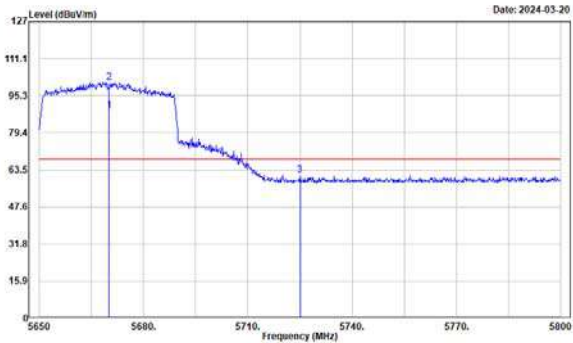
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5417.510	52.86	-4.56	48.30	54.00	-5.70	286	118	Average
5417.510	65.61	-4.56	61.05	74.00	-12.95	286	118	Peak
5510.000	94.92	-4.44	90.48			286	118	Average
5510.000	107.65	-4.44	103.21			286	118	Peak

Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5447.260	52.98	-4.62	48.36	54.00	-5.64	296	185	Average
5447.260	66.02	-4.62	61.40	74.00	-12.60	296	185	Peak
5510.000	100.55	-4.44	96.11			296	185	Average
5510.000	112.99	-4.44	108.55			296	185	Peak

(802.11ax HE40 Mode, 5670 MHz)

Horizontal

Vertical



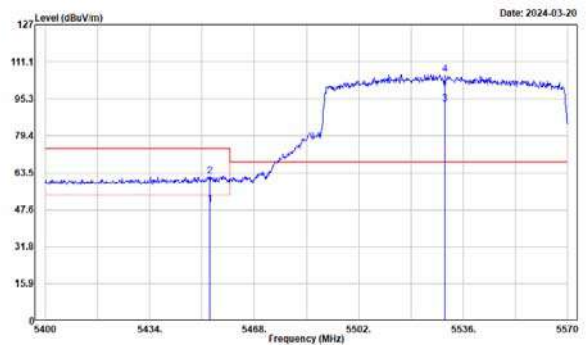
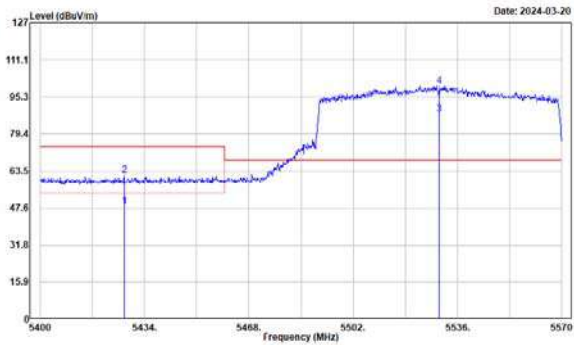
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5670.000	93.87	-5.00	88.87			299	118	Average
5670.000	105.99	-5.00	100.99			299	118	Peak
5725.000	66.30	-5.15	61.15	68.20	-7.05	299	118	Peak

Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5670.000	99.28	-5.00	94.28			186	210	Average
5670.000	112.04	-5.00	107.04			186	210	Peak
5725.000	66.92	-5.15	61.77	68.20	-6.43	186	210	Peak

(802.11ax HE80 Mode, 5530 MHz)

Horizontal

Vertical



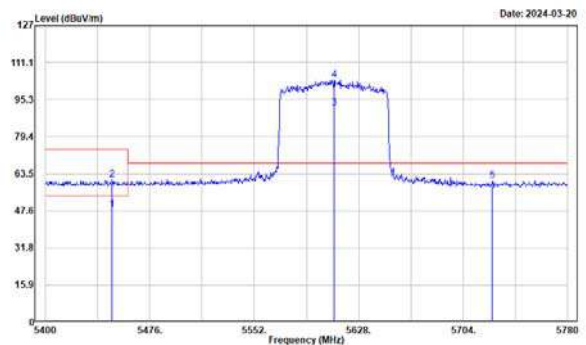
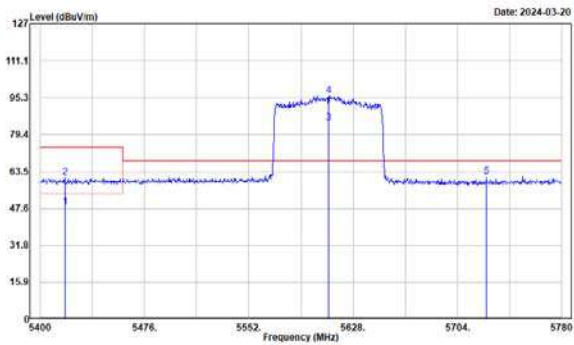
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5427.370	52.89	-4.58	48.31	54.00	-5.69	258	117	Average
5427.370	66.05	-4.58	61.47	74.00	-12.53	258	117	Peak
5530.000	92.30	-4.43	87.87			258	117	Average
5530.000	104.33	-4.43	99.90			258	117	Peak

Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5453.550	54.59	-4.62	49.97	54.00	-4.03	268	183	Average
5453.550	66.65	-4.62	62.03	74.00	-11.97	268	183	Peak
5530.000	97.47	-4.43	93.04			268	183	Average
5530.000	110.21	-4.43	105.78			268	183	Peak

(802.11ax HE80 Mode, 5610 MHz)

Horizontal

Vertical



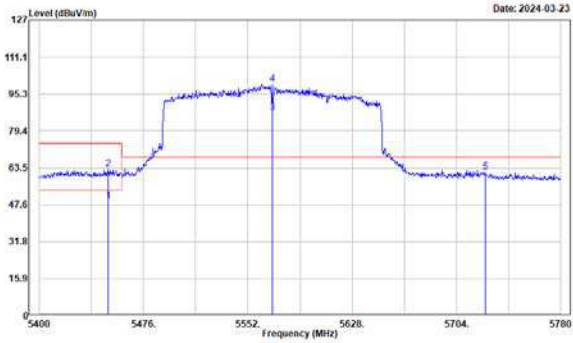
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5417.860	52.77	-4.56	48.21	54.00	-5.79	110	90	Average
5417.860	65.52	-4.56	60.96	74.00	-13.04	110	90	Peak
5610.000	89.13	-4.70	84.43			110	90	Average
5610.000	100.89	-4.70	96.19			110	90	Peak
5725.000	66.53	-5.15	61.38	68.20	-6.82	110	90	Peak

Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5448.640	52.93	-4.63	48.30	54.00	-5.70	121	176	Average
5448.640	65.54	-4.63	60.91	74.00	-13.09	121	176	Peak
5610.000	96.11	-4.70	91.41			121	176	Average
5610.000	108.15	-4.70	103.45			121	176	Peak
5725.000	65.63	-5.15	60.48	68.20	-7.72	121	176	Peak

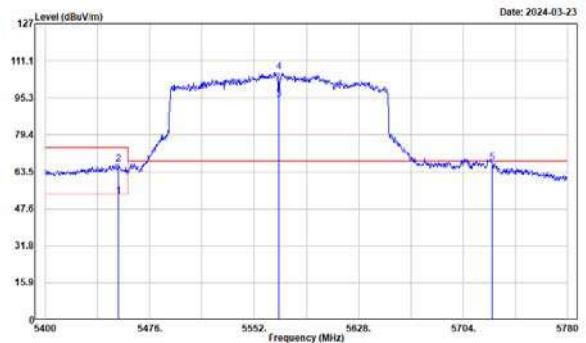
(802.11ax HE160 Mode, 5570 MHz)

Horizontal

Vertical



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5450.160	53.88	-4.63	49.25	54.00	-4.75	108	120	Average
5450.160	67.55	-4.63	62.92	74.00	-11.08	108	120	Peak
5570.000	91.75	-4.54	87.21	108	120	108	120	Average
5570.000	104.10	-4.54	99.56	108	120	108	120	Peak
5725.000	66.63	-5.15	61.48	68.20	-6.72	108	120	Peak



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
5453.200	57.67	-4.62	53.05	54.00	-0.95	144	73	Average
5453.200	71.41	-4.62	66.79	74.00	-7.21	144	73	Peak
5570.000	99.19	-4.54	94.65	108	120	144	73	Average
5570.000	110.75	-4.54	106.21	108	120	144	73	Peak
5725.000	72.48	-5.15	67.33	68.20	-0.87	144	73	Peak

Level = Reading + Factor.

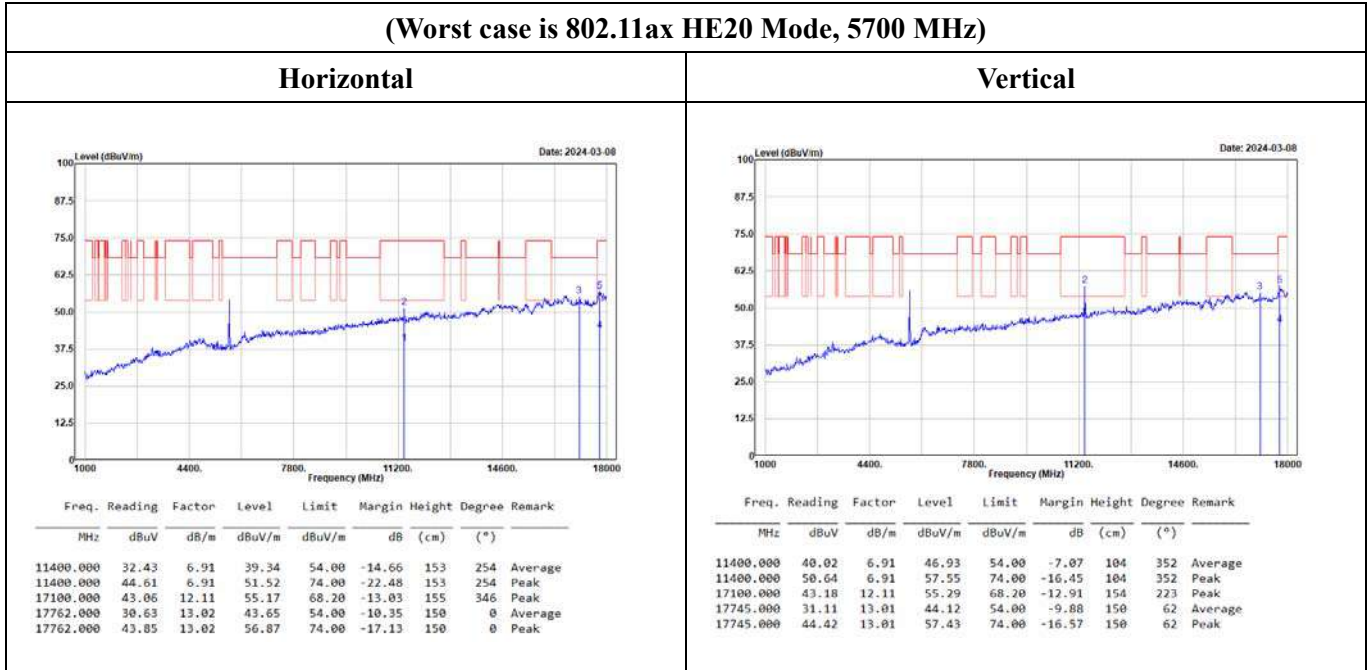
Margin = Level - Limit.

Factor = Antenna Factor + Cable Loss - Amplifier Gain.

1GHz-18GHz:

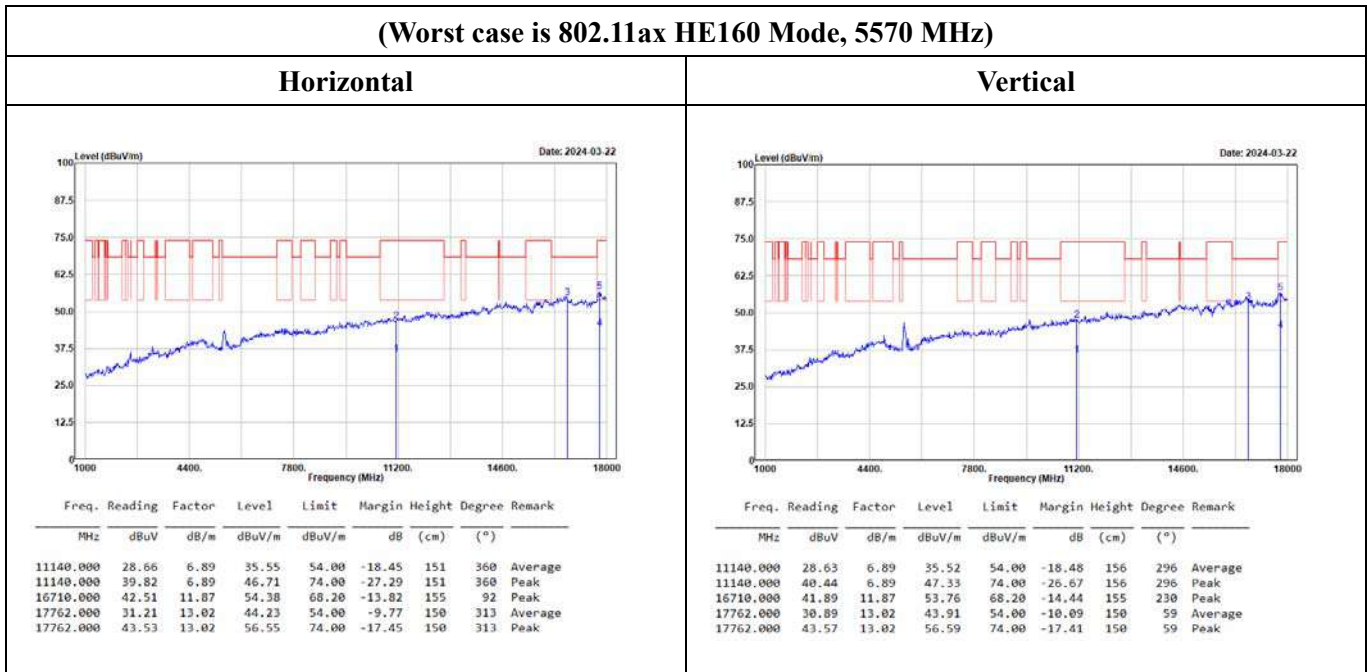
Non Beamforming Mode

(Worst case is 802.11ax HE20 Mode, 5700 MHz)



Beamforming Mode:

(Worst case is 802.11ax HE160 Mode, 5570 MHz)



Level = Reading + Factor.

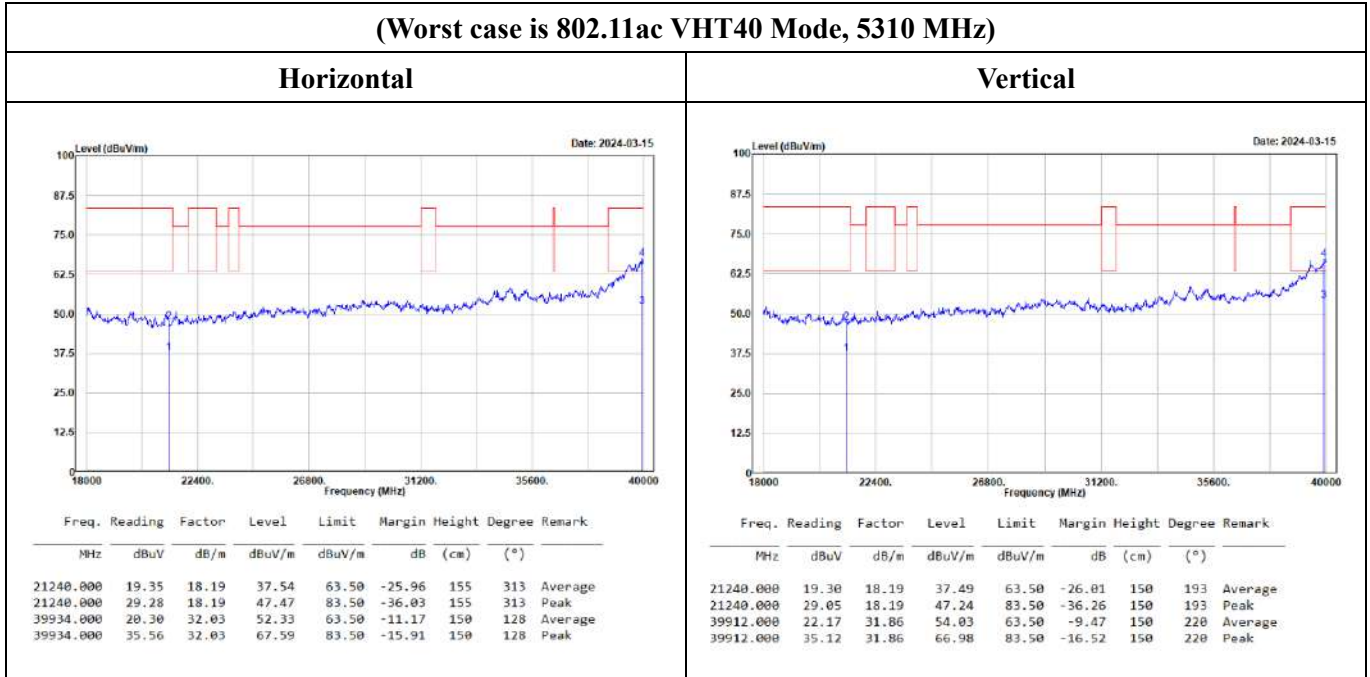
Margin = Level - Limit.

Factor = Antenna Factor + Cable Loss - Amplifier Gain.

18GHz-40GHz:

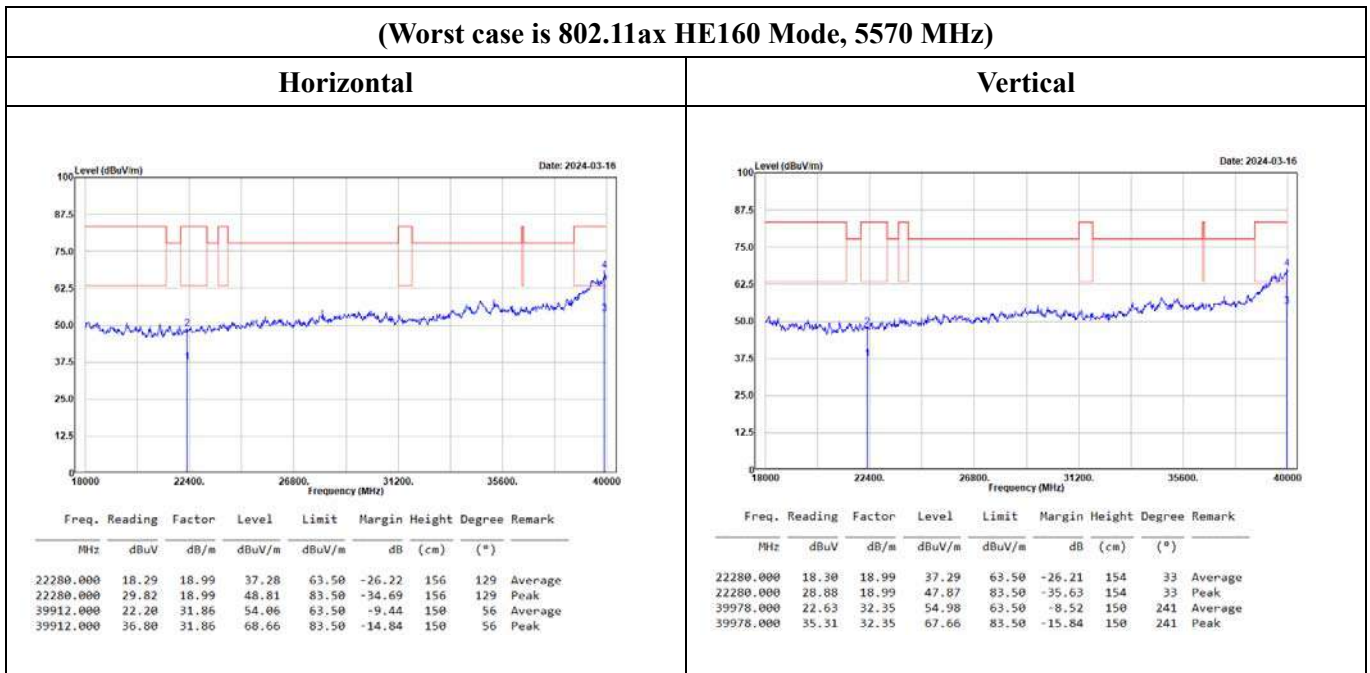
Non Beamforming Mode

(Worst case is 802.11ac VHT40 Mode, 5310 MHz)



Beamforming Mode:

(Worst case is 802.11ax HE160 Mode, 5570 MHz)



Level = Reading + Factor.

Margin = Level - Limit.

Factor = Antenna Factor + Cable Loss - Amplifier Gain.

Above 1GHz

Non Beamforming Mode:

5250-5350 MHz

802.11a Mode:

5260 MHz																	
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)	(°)	
10520.000	40.92	5.69	46.61	68.20	-21.59	154	32	Peak	10520.000	41.10	5.69	46.79	68.20	-21.41	155	196	Peak
15780.000	31.09	9.96	41.05	54.00	-12.95	151	125	Average	15780.000	31.07	9.96	41.03	54.00	-12.97	152	49	Average
15780.000	42.01	9.96	51.97	74.00	-22.03	151	125	Peak	15780.000	43.31	9.96	53.27	74.00	-20.73	152	49	Peak

5300 MHz																	
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)	(°)	
10600.000	29.40	5.67	35.07	54.00	-18.93	153	282	Average	10600.000	29.79	5.67	35.46	54.00	-18.54	156	59	Average
10600.000	40.95	5.67	46.62	68.20	-21.58	153	282	Peak	10600.000	41.28	5.67	46.95	68.20	-21.25	156	59	Peak
15900.000	30.30	10.07	40.37	54.00	-13.63	155	357	Average	15900.000	30.30	10.07	40.37	54.00	-13.63	153	105	Average
15900.000	43.00	10.07	53.07	74.00	-20.93	155	357	Peak	15900.000	41.79	10.07	51.86	74.00	-22.14	153	105	Peak

5320 MHz																	
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)	(°)	
10640.000	29.43	5.67	35.10	54.00	-18.90	157	122	Average	10640.000	29.35	5.67	35.02	54.00	-18.98	154	131	Average
10640.000	40.78	5.67	46.45	74.00	-27.55	157	122	Peak	10640.000	41.42	5.67	47.09	74.00	-26.91	154	131	Peak
15960.000	31.26	10.57	41.83	54.00	-12.17	151	56	Average	15960.000	31.21	10.57	41.78	54.00	-12.22	156	311	Average
15960.000	42.56	10.57	53.13	74.00	-20.87	151	56	Peak	15960.000	42.42	10.57	52.99	74.00	-21.01	156	311	Peak

Level = Reading + Factor.

Margin = Level - Limit.

Factor = Antenna Factor + Cable Loss - Amplifier Gain.

802.11ac VHT20 Mode:

5260 MHz																	
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)	(°)	
10520.000	43.38	5.69	49.07	68.20	-19.13	156	127	Peak	10520.000	45.58	5.69	51.27	68.20	-16.93	145	0	Peak
15780.000	39.63	9.96	49.59	54.00	-4.41	193	348	Average	15780.000	40.55	9.96	50.51	54.00	-3.49	217	359	Average
15780.000	55.59	9.96	65.55	74.00	-8.45	193	348	Peak	15780.000	57.53	9.96	67.49	74.00	-6.51	217	359	Peak

5300 MHz																	
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)	(°)	
10600.000	31.88	5.67	37.55	54.00	-16.45	156	116	Average	10600.000	34.05	5.67	39.72	54.00	-14.28	158	21	Average
10600.000	44.20	5.67	49.87	68.20	-18.33	156	116	Peak	10600.000	46.81	5.67	52.48	68.20	-15.72	158	21	Peak
15900.000	32.53	10.07	42.60	54.00	-11.40	151	208	Average	15900.000	33.90	10.07	43.97	54.00	-10.03	154	2	Average
15900.000	45.63	10.07	55.70	74.00	-18.30	151	208	Peak	15900.000	46.35	10.07	56.42	74.00	-17.58	154	2	Peak

5320 MHz																	
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)	(°)	
10640.000	31.13	5.67	36.80	54.00	-17.20	152	282	Average	10640.000	33.05	5.67	38.72	54.00	-15.28	151	0	Average
10640.000	43.88	5.67	49.55	74.00	-24.45	152	282	Peak	10640.000	45.73	5.67	51.40	74.00	-22.60	151	0	Peak
15960.000	34.34	10.57	44.91	54.00	-9.09	158	344	Average	15960.000	33.72	10.57	44.29	54.00	-9.71	156	319	Average
15960.000	47.40	10.57	57.97	74.00	-16.03	158	344	Peak	15960.000	49.13	10.57	59.70	74.00	-14.30	156	319	Peak

Level = Reading + Factor.

Margin = Level - Limit.

Factor = Antenna Factor + Cable Loss - Amplifier Gain.

802.11ac VHT40 Mode:

5270 MHz																	
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)	(°)	
10540.000	42.09	5.69	47.78	68.20	-20.42	151	351	Peak	10540.000	41.98	5.69	47.67	68.20	-20.53	154	7	Peak
15810.000	34.80	10.11	44.91	54.00	-9.09	156	41	Average	15810.000	33.49	10.11	43.60	54.00	-10.40	152	42	Average
15810.000	45.60	10.11	55.71	74.00	-18.29	156	41	Peak	15810.000	42.69	10.11	52.80	74.00	-21.20	152	42	Peak

5310 MHz																	
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)	(°)	
10620.000	31.22	5.67	36.89	54.00	-17.11	152	0	Average	10620.000	31.66	5.67	37.33	54.00	-16.67	156	82	Average
10620.000	41.71	5.67	47.38	74.00	-26.62	152	0	Peak	10620.000	41.70	5.67	47.37	74.00	-26.63	156	82	Peak
15930.000	32.46	10.33	42.79	54.00	-11.21	155	137	Average	15930.000	32.76	10.33	43.09	54.00	-10.91	151	240	Average
15930.000	42.15	10.33	52.48	74.00	-21.52	155	137	Peak	15930.000	41.76	10.33	52.09	74.00	-21.91	151	240	Peak

802.11ac VHT80 Mode:

5290 MHz																	
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)	(°)	
10420.000	40.10	5.32	45.42	68.20	-22.78	153	67	Peak	10420.000	40.53	5.32	45.85	68.20	-22.35	152	257	Peak
15630.000	33.03	9.31	42.34	54.00	-11.66	155	273	Average	15630.000	32.91	9.31	42.22	54.00	-11.78	155	2	Average
15630.000	41.58	9.31	50.89	74.00	-23.11	155	273	Peak	15630.000	40.74	9.31	50.05	74.00	-23.95	155	2	Peak

802.11ac VHT160 Mode:

5250 MHz																	
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)	(°)	
10500.000	40.90	5.70	46.60	68.20	-21.60	153	312	Peak	10500.000	41.27	5.70	46.97	68.20	-21.23	153	336	Peak
15750.000	32.36	9.75	42.11	54.00	-11.89	155	80	Average	15750.000	32.18	9.75	41.93	54.00	-12.07	151	94	Average
15750.000	42.38	9.75	52.13	74.00	-21.87	155	80	Peak	15750.000	42.59	9.75	52.34	74.00	-21.66	151	94	Peak

802.11ax HE20 Mode:

5260 MHz																	
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)	(°)	
10520.000	43.68	5.69	49.37	68.20	-18.83	155	270	Peak	10520.000	49.53	5.69	55.22	68.20	-12.98	153	0	Peak
15780.000	40.59	9.96	50.55	54.00	-3.45	199	342	Average	15780.000	41.16	9.96	51.12	54.00	-2.88	210	354	Average
15780.000	56.57	9.96	66.53	74.00	-7.47	199	342	Peak	15780.000	57.02	9.96	66.98	74.00	-7.02	210	354	Peak

5300 MHz																	
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)	(°)	
10600.000	31.58	5.67	37.25	54.00	-16.75	157	110	Average	10600.000	35.66	5.67	41.33	54.00	-12.67	154	360	Average
10600.000	43.64	5.67	49.31	68.20	-18.89	157	110	Peak	10600.000	47.44	5.67	53.11	68.20	-15.09	154	360	Peak
15900.000	33.21	10.07	43.28	54.00	-10.72	153	240	Average	15900.000	35.74	10.07	45.81	54.00	-8.19	156	10	Average
15900.000	45.70	10.07	55.77	74.00	-18.23	153	240	Peak	15900.000	47.78	10.07	57.85	74.00	-16.15	156	10	Peak

5320 MHz																	
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)	(°)	
10640.000	31.21	5.67	36.88	54.00	-17.12	152	91	Average	10640.000	34.02	5.67	39.69	54.00	-14.31	155	344	Average
10640.000	43.49	5.67	49.16	74.00	-24.84	152	91	Peak	10640.000	46.00	5.67	51.67	74.00	-22.33	155	344	Peak
15960.000	33.51	10.57	44.08	54.00	-9.92	154	357	Average	15960.000	34.54	10.57	45.11	54.00	-8.89	152	154	Average
15960.000	45.57	10.57	56.14	74.00	-17.86	154	357	Peak	15960.000	47.61	10.57	58.18	74.00	-15.82	152	154	Peak

802.11ax HE40 Mode:

5270 MHz																	
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)	(°)	
10540.000	42.63	5.69	48.32	68.20	-19.88	152	116	Peak	10540.000	46.41	5.69	52.10	68.20	-16.10	168	357	Peak
15810.000	37.57	10.11	47.68	54.00	-6.32	199	353	Average	15810.000	38.21	10.11	48.32	54.00	-5.68	206	353	Average
15810.000	51.51	10.11	61.62	74.00	-12.38	199	353	Peak	15810.000	52.86	10.11	62.97	74.00	-11.03	206	353	Peak

5310 MHz																	
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)	(°)	
10620.000	30.22	5.67	35.89	54.00	-18.11	152	281	Average	10620.000	30.98	5.67	36.65	54.00	-17.35	157	52	Average
10620.000	41.38	5.67	47.05	74.00	-26.95	152	281	Peak	10620.000	41.49	5.67	47.16	74.00	-26.84	157	52	Peak
15930.000	31.99	10.33	42.32	54.00	-11.68	156	351	Average	15930.000	33.00	10.33	43.33	54.00	-10.67	151	52	Average
15930.000	42.19	10.33	52.52	74.00	-21.48	156	351	Peak	15930.000	42.19	10.33	52.52	74.00	-21.48	151	52	Peak

802.11ax HE80 Mode:

5290 MHz																	
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)	(°)	
10580.000	42.30	5.68	47.98	68.20	-20.22	153	111	Peak	10580.000	43.84	5.68	49.52	68.20	-18.68	158	360	Peak
15870.000	34.85	10.08	44.93	54.00	-9.07	206	208	Average	15870.000	36.60	10.08	46.68	54.00	-7.32	102	160	Average
15870.000	47.04	10.08	57.12	74.00	-16.88	206	208	Peak	15870.000	48.71	10.08	58.79	74.00	-15.21	102	160	Peak

802.11ax HE160 Mode:

5250 MHz																	
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)	(°)	
10500.000	40.37	5.70	46.07	68.20	-22.13	158	75	Peak	10500.000	41.50	5.70	47.20	68.20	-21.00	153	0	Peak
15750.000	32.18	9.75	41.93	54.00	-12.07	156	145	Average	15750.000	32.29	9.75	42.04	54.00	-11.96	153	22	Average
15750.000	43.78	9.75	53.53	74.00	-20.47	156	145	Peak	15750.000	42.75	9.75	52.50	74.00	-21.50	153	22	Peak

Level = Reading + Factor.

Margin = Level - Limit.

Factor = Antenna Factor + Cable Loss - Amplifier Gain.

5470-5725 MHz

802.11a Mode:

5500 MHz																	
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)	(°)	
11000.000	29.95	6.42	36.37	54.00	-17.63	151	241	Average	11000.000	33.15	6.42	39.57	54.00	-14.43	152	274	Average
11000.000	41.93	6.42	48.35	74.00	-25.65	151	241	Peak	11000.000	46.48	6.42	52.90	74.00	-21.10	152	274	Peak
16500.000	41.90	12.00	53.90	68.20	-14.30	154	104	Peak	16500.000	42.98	12.00	54.98	68.20	-13.22	159	43	Peak

5580 MHz																	
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)	(°)	
11160.000	29.28	6.83	36.11	54.00	-17.89	153	340	Average	11160.000	33.51	6.83	40.34	54.00	-13.66	156	206	Average
11160.000	40.54	6.83	47.37	74.00	-26.63	153	340	Peak	11160.000	47.18	6.83	54.01	74.00	-19.99	156	206	Peak
16740.000	42.43	11.79	54.22	68.20	-13.98	153	133	Peak	16740.000	43.71	11.79	55.50	68.20	-12.70	155	357	Peak

5700 MHz																	
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)	(°)	
11400.000	30.09	6.91	37.00	54.00	-17.00	151	83	Average	11400.000	32.61	6.91	39.52	54.00	-14.48	156	249	Average
11400.000	41.69	6.91	48.60	74.00	-25.40	151	83	Peak	11400.000	47.22	6.91	54.13	74.00	-19.87	156	249	Peak
17100.000	41.56	12.11	53.67	68.20	-14.53	155	163	Peak	17100.000	42.60	12.11	54.71	68.20	-13.49	152	360	Peak

Level = Reading + Factor.

Margin = Level - Limit.

Factor = Antenna Factor + Cable Loss - Amplifier Gain.

802.11ac VHT20 Mode:

5500 MHz																	
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)	(°)	
11000.000	31.71	6.42	38.13	54.00	-15.87	155	216	Average	11000.000	34.16	6.42	40.58	54.00	-13.42	154	261	Average
11000.000	44.05	6.42	50.47	74.00	-23.53	155	216	Peak	11000.000	46.93	6.42	53.35	74.00	-20.65	154	261	Peak
16500.000	41.63	12.00	53.63	68.20	-14.57	159	354	Peak	16500.000	42.73	12.00	54.73	68.20	-13.47	157	34	Peak

5580 MHz																	
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)	(°)	
11160.000	31.50	6.83	38.33	54.00	-15.67	156	269	Average	11160.000	38.26	6.83	45.09	54.00	-8.91	104	5	Average
11160.000	43.92	6.83	50.75	74.00	-23.25	156	269	Peak	11160.000	50.63	6.83	57.46	74.00	-16.54	104	5	Peak
16740.000	41.94	11.79	53.73	68.20	-14.47	153	332	Peak	16740.000	43.28	11.79	55.07	68.20	-13.13	157	229	Peak

5700 MHz																	
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)	(°)	
11400.000	32.76	6.91	39.67	54.00	-14.33	153	359	Average	11400.000	39.36	6.91	46.27	54.00	-7.73	102	346	Average
11400.000	45.71	6.91	52.62	74.00	-21.38	153	359	Peak	11400.000	51.81	6.91	58.72	74.00	-15.28	102	346	Peak
17100.000	42.15	12.11	54.26	68.20	-13.94	158	54	Peak	17100.000	41.60	12.11	53.71	68.20	-14.49	159	214	Peak

Level = Reading + Factor.

Margin = Level - Limit.

Factor = Antenna Factor + Cable Loss - Amplifier Gain.

802.11ac VHT40 Mode:

5510 MHz																	
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)	(°)	
11020.000	31.28	6.53	37.81	54.00	-16.19	156	0	Average	11020.000	32.60	6.53	39.13	54.00	-14.87	153	305	Average
11020.000	41.25	6.53	47.78	74.00	-26.22	156	0	Peak	11020.000	43.65	6.53	50.18	74.00	-23.82	153	305	Peak
16530.000	41.20	12.07	53.27	68.20	-14.93	155	39	Peak	16530.000	42.01	12.07	54.08	68.20	-14.12	155	285	Peak

5550 MHz																	
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)	(°)	
11100.000	31.05	6.99	38.04	54.00	-15.96	158	344	Average	11100.000	33.10	6.99	40.09	54.00	-13.91	156	246	Average
11100.000	40.45	6.99	47.44	74.00	-26.56	158	344	Peak	11100.000	44.52	6.99	51.51	74.00	-22.49	156	246	Peak
16650.000	43.06	12.07	55.13	68.20	-13.07	153	174	Peak	16650.000	43.54	12.07	55.61	68.20	-12.59	154	176	Peak

5670 MHz																	
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)	(°)	
11340.000	32.69	6.99	39.68	54.00	-14.32	155	7	Average	11340.000	36.43	6.99	43.42	54.00	-10.58	105	353	Average
11340.000	43.47	6.99	50.46	74.00	-23.54	155	7	Peak	11340.000	48.82	6.99	55.81	74.00	-18.19	105	353	Peak
17010.000	40.59	11.95	52.54	68.20	-15.66	152	264	Peak	17010.000	40.48	11.95	52.43	68.20	-15.77	152	26	Peak

Level = Reading + Factor.

Margin = Level - Limit.

Factor = Antenna Factor + Cable Loss - Amplifier Gain.

802.11ac VHT80 Mode:

5530 MHz																	
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)	(°)	
11060.000	32.17	6.76	38.93	54.00	-15.07	158	18	Average	11060.000	32.98	6.76	39.74	54.00	-14.26	152	137	Average
11060.000	43.05	6.76	49.81	74.00	-24.19	158	18	Peak	11060.000	43.54	6.76	50.30	74.00	-23.70	152	137	Peak
16590.000	44.82	12.21	57.03	68.20	-11.17	156	357	Peak	16590.000	44.18	12.21	56.39	68.20	-11.81	156	204	Peak

5610 MHz																	
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)	(°)	
11220.000	32.14	6.80	38.94	54.00	-15.06	153	122	Average	11220.000	37.09	6.80	43.89	54.00	-10.11	119	11	Average
11220.000	42.61	6.80	49.41	74.00	-24.59	153	122	Peak	11220.000	47.30	6.80	54.10	74.00	-19.90	119	11	Peak
16830.000	43.97	11.57	55.54	68.20	-12.66	154	315	Peak	16830.000	44.28	11.57	55.85	68.20	-12.35	156	4	Peak

802.11ac VHT160 Mode:

5570 MHz																	
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)	(°)	
11140.000	29.65	6.89	36.54	54.00	-17.46	150	317	Average	11140.000	29.64	6.89	36.53	54.00	-17.47	152	83	Average
11140.000	40.50	6.89	47.39	74.00	-26.61	150	317	Peak	11140.000	40.15	6.89	47.04	74.00	-26.96	152	83	Peak
16710.000	43.49	11.87	55.36	68.20	-12.84	156	3	Peak	16710.000	41.83	11.87	53.70	68.20	-14.50	154	16	Peak

802.11ax HE20 Mode:

5500 MHz																	
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)	(°)	
11000.000	31.46	6.42	37.88	54.00	-16.12	151	289	Average	11000.000	38.16	6.42	44.58	54.00	-9.42	106	170	Average
11000.000	43.52	6.42	49.94	74.00	-24.06	151	289	Peak	11000.000	48.78	6.42	55.20	74.00	-18.80	106	170	Peak
16500.000	45.98	12.00	57.98	68.20	-10.22	153	144	Peak	16500.000	45.32	12.00	57.32	68.20	-10.88	156	189	Peak

5580 MHz																	
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)	(°)	
11160.000	31.30	6.83	38.13	54.00	-15.87	154	249	Average	11160.000	38.91	6.83	45.74	54.00	-8.26	104	13	Average
11160.000	43.83	6.83	50.66	74.00	-23.34	154	249	Peak	11160.000	50.12	6.83	56.95	74.00	-17.05	104	13	Peak
16740.000	44.83	11.79	56.62	68.20	-11.58	153	315	Peak	16740.000	46.27	11.79	58.06	68.20	-10.14	157	45	Peak

5700 MHz																	
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)	(°)	
11400.000	32.43	6.91	39.34	54.00	-14.66	153	254	Average	11400.000	40.02	6.91	46.93	54.00	-7.07	104	352	Average
11400.000	44.61	6.91	51.52	74.00	-22.48	153	254	Peak	11400.000	50.64	6.91	57.55	74.00	-16.45	104	352	Peak
17100.000	43.06	12.11	55.17	68.20	-13.03	155	346	Peak	17100.000	43.18	12.11	55.29	68.20	-12.91	154	223	Peak
17762.000	30.63	13.02	43.65	54.00	-10.35	150	0	Average	17745.000	31.11	13.01	44.12	54.00	-9.88	150	62	Average
17762.000	43.85	13.02	56.87	74.00	-17.13	150	0	Peak	17745.000	44.42	13.01	57.43	74.00	-16.57	150	62	Peak

802.11ax HE40 Mode:

5510 MHz																	
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)	(°)	
11020.000	30.61	6.53	37.14	54.00	-16.86	153	177	Average	11020.000	34.30	6.53	40.83	54.00	-13.17	105	333	Average
11020.000	42.05	6.53	48.58	74.00	-25.42	153	177	Peak	11020.000	47.41	6.53	53.94	74.00	-20.06	105	333	Peak
16530.000	41.14	12.07	53.21	68.20	-14.99	155	185	Peak	16530.000	41.25	12.07	53.32	68.20	-14.88	161	236	Peak

5550 MHz																	
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)	(°)	
11100.000	30.63	6.99	37.62	54.00	-16.38	156	115	Average	11100.000	34.03	6.99	41.02	54.00	-12.98	152	0	Average
11100.000	40.87	6.99	47.86	74.00	-26.14	156	115	Peak	11100.000	46.41	6.99	53.40	74.00	-20.60	152	0	Peak
16650.000	42.71	12.07	54.78	68.20	-13.42	152	293	Peak	16650.000	43.09	12.07	55.16	68.20	-13.04	156	273	Peak

5670 MHz																	
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)	(°)	
11340.000	32.65	6.99	39.64	54.00	-14.36	156	260	Average	11340.000	37.51	6.99	44.50	54.00	-9.50	119	354	Average
11340.000	44.20	6.99	51.19	74.00	-22.81	156	260	Peak	11340.000	50.25	6.99	57.24	74.00	-16.76	119	354	Peak
17010.000	41.08	11.95	53.03	68.20	-15.17	152	360	Peak	17010.000	40.11	11.95	52.06	68.20	-16.14	156	217	Peak

802.11ax HE80 Mode:

5530 MHz																	
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)	(°)	
11060.000	30.11	6.76	36.87	54.00	-17.13	156	358	Average	11060.000	33.04	6.76	39.80	54.00	-14.20	104	1	Average
11060.000	42.48	6.76	49.24	74.00	-24.76	156	358	Peak	11060.000	46.03	6.76	52.79	74.00	-21.21	104	1	Peak
16590.000	44.14	12.21	56.35	68.20	-11.85	152	56	Peak	16590.000	44.81	12.21	57.02	68.20	-11.18	152	106	Peak

5610 MHz																	
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)	(°)	
11220.000	31.38	6.80	38.18	54.00	-15.82	152	271	Average	11220.000	34.58	6.80	41.38	54.00	-12.62	108	359	Average
11220.000	43.15	6.80	49.95	74.00	-24.05	152	271	Peak	11220.000	46.90	6.80	53.70	74.00	-20.30	108	359	Peak
16830.000	42.21	11.57	53.78	68.20	-14.42	156	65	Peak	16830.000	44.33	11.57	55.90	68.20	-12.30	152	0	Peak

802.11ax HE160 Mode:

5570 MHz																	
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)	(°)	
11140.000	29.54	6.89	36.43	54.00	-17.57	158	159	Average	11140.000	29.55	6.89	36.44	54.00	-17.56	151	158	Average
11140.000	40.57	6.89	47.46	74.00	-26.54	158	159	Peak	11140.000	40.87	6.89	47.76	74.00	-26.24	151	158	Peak
16710.000	41.99	11.87	53.86	68.20	-14.34	150	27	Peak	16710.000	41.95	11.87	53.82	68.20	-14.38	154	197	Peak

Level = Reading + Factor.

Margin = Level - Limit.

Factor = Antenna Factor + Cable Loss - Amplifier Gain.

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

Beamforming Mode:

5250-5350 MHz

802.11ac VHT20 Mode:

5260 MHz																	
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)	(°)	
10520.000	42.23	5.69	47.92	68.20	-20.28	155	253	Peak	10520.000	41.79	5.69	47.48	68.20	-20.72	151	188	Peak
15780.000	31.08	9.96	41.04	54.00	-12.96	152	42	Average	15780.000	31.16	9.96	41.12	54.00	-12.88	150	292	Average
15780.000	42.88	9.96	52.84	74.00	-21.16	152	42	Peak	15780.000	42.18	9.96	52.14	74.00	-21.86	150	292	Peak

5300 MHz																	
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)	(°)	
10600.000	29.31	5.67	34.98	54.00	-19.02	157	98	Average	10600.000	29.36	5.67	35.03	54.00	-18.97	151	103	Average
10600.000	40.66	5.67	46.33	68.20	-21.87	157	98	Peak	10600.000	41.34	5.67	47.01	68.20	-21.19	151	103	Peak
15900.000	30.40	10.07	40.47	54.00	-13.53	154	94	Average	15900.000	30.31	10.07	40.38	54.00	-13.62	155	122	Average
15900.000	41.04	10.07	51.11	74.00	-22.89	154	94	Peak	15900.000	41.08	10.07	51.15	74.00	-22.85	155	122	Peak

5320 MHz																	
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)	(°)	
10640.000	29.27	5.67	34.94	54.00	-19.06	154	360	Average	10640.000	29.16	5.67	34.83	54.00	-19.17	155	110	Average
10640.000	42.11	5.67	47.78	74.00	-26.22	154	360	Peak	10640.000	41.79	5.67	47.46	74.00	-26.54	155	110	Peak
15960.000	31.09	10.57	41.66	54.00	-12.34	155	225	Average	15960.000	30.96	10.57	41.53	54.00	-12.47	153	206	Average
15960.000	42.22	10.57	52.79	74.00	-21.21	155	225	Peak	15960.000	43.31	10.57	53.88	74.00	-20.12	153	206	Peak

Level = Reading + Factor.

Margin = Level - Limit.

Factor = Antenna Factor + Cable Loss - Amplifier Gain.

802.11ac VHT40 Mode:

5270 MHz																	
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)	(°)	
10540.000	41.51	5.69	47.20	68.20	-21.00	150	133	Peak	10540.000	40.44	5.69	46.13	68.20	-22.07	156	29	Peak
15810.000	31.08	10.11	41.19	54.00	-12.81	152	241	Average	15810.000	30.94	10.11	41.05	54.00	-12.95	153	277	Average
15810.000	42.43	10.11	52.54	74.00	-21.46	152	241	Peak	15810.000	42.49	10.11	52.60	74.00	-21.40	153	277	Peak

5310 MHz																	
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)	(°)	
10620.000	29.27	5.67	34.94	54.00	-19.06	151	332	Average	10620.000	29.40	5.67	35.07	54.00	-18.93	151	295	Average
10620.000	40.96	5.67	46.63	74.00	-27.37	151	332	Peak	10620.000	41.13	5.67	46.80	74.00	-27.20	151	295	Peak
15930.000	30.67	10.33	41.00	54.00	-13.00	156	184	Average	15930.000	30.76	10.33	41.09	54.00	-12.91	158	323	Average
15930.000	41.88	10.33	52.21	74.00	-21.79	156	184	Peak	15930.000	41.97	10.33	52.30	74.00	-21.70	158	323	Peak

802.11ac VHT80 Mode:

5290 MHz																	
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)	(°)	
10580.000	41.61	5.68	47.29	68.20	-20.91	151	90	Peak	10580.000	41.19	5.68	46.87	68.20	-21.33	155	295	Peak
15870.000	30.10	10.08	40.18	54.00	-13.82	152	76	Average	15870.000	30.23	10.08	40.31	54.00	-13.69	150	119	Average
15870.000	42.07	10.08	52.15	74.00	-21.85	152	76	Peak	15870.000	41.77	10.08	51.85	74.00	-22.15	150	119	Peak

802.11ac VHT160 Mode:

5250 MHz																	
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)	(°)	
10500.000	40.46	5.70	46.16	68.20	-22.04	150	286	Peak	10500.000	42.60	5.70	48.30	68.20	-19.90	154	105	Peak
15750.000	31.24	9.75	40.99	54.00	-13.01	152	100	Average	15750.000	31.36	9.75	41.11	54.00	-12.89	155	17	Average
15750.000	42.24	9.75	51.99	74.00	-22.01	152	100	Peak	15750.000	42.57	9.75	52.32	74.00	-21.68	155	17	Peak

802.11ax HE20 Mode:

5260 MHz																	
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)	(°)	
10520.000	40.79	5.69	46.48	68.20	-21.72	151	32	Peak	10520.000	41.60	5.69	47.29	68.20	-20.91	149	256	Peak
15780.000	31.12	9.96	41.08	54.00	-12.92	147	130	Average	15780.000	31.05	9.96	41.01	54.00	-12.99	152	240	Average
15780.000	42.25	9.96	52.21	74.00	-21.79	147	130	Peak	15780.000	42.54	9.96	52.50	74.00	-21.50	152	240	Peak

5300 MHz																	
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)	(°)	
10600.000	29.34	5.67	35.01	54.00	-18.99	156	325	Average	10600.000	29.43	5.67	35.10	54.00	-18.90	150	115	Average
10600.000	40.79	5.67	46.46	68.20	-21.74	156	325	Peak	10600.000	40.43	5.67	46.10	68.20	-22.10	150	115	Peak
15900.000	30.16	10.07	40.23	54.00	-13.77	158	169	Average	15900.000	30.23	10.07	40.30	54.00	-13.70	152	0	Average
15900.000	41.32	10.07	51.39	74.00	-22.61	158	169	Peak	15900.000	41.03	10.07	51.10	74.00	-22.90	152	0	Peak

5320 MHz																	
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)	(°)	
10640.000	29.28	5.67	34.95	54.00	-19.05	152	56	Average	10640.000	29.26	5.67	34.93	54.00	-19.07	157	306	Average
10640.000	40.72	5.67	46.39	74.00	-27.61	152	56	Peak	10640.000	41.14	5.67	46.81	74.00	-27.19	157	306	Peak
15960.000	31.04	10.57	41.61	54.00	-12.39	156	288	Average	15960.000	31.19	10.57	41.76	54.00	-12.24	156	60	Average
15960.000	42.89	10.57	53.46	74.00	-20.54	156	288	Peak	15960.000	42.46	10.57	53.03	74.00	-20.97	156	60	Peak

802.11ax HE40 Mode:

5270 MHz																	
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)	(°)	
10540.000	40.50	5.69	46.19	68.20	-22.01	157	237	Peak	10540.000	40.36	5.69	46.05	68.20	-22.15	152	353	Peak
15810.000	30.91	10.11	41.02	54.00	-12.98	152	133	Average	15810.000	31.06	10.11	41.17	54.00	-12.83	152	289	Average
15810.000	43.28	10.11	53.39	74.00	-20.61	152	133	Peak	15810.000	42.13	10.11	52.24	74.00	-21.76	152	289	Peak

5310 MHz																	
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)	(°)	
10620.000	29.28	5.67	34.95	54.00	-19.05	151	133	Average	10620.000	29.43	5.67	35.10	54.00	-18.90	154	0	Average
10620.000	40.36	5.67	46.03	74.00	-27.97	151	133	Peak	10620.000	40.28	5.67	45.95	74.00	-28.05	154	0	Peak
15930.000	30.60	10.33	40.93	54.00	-13.07	153	172	Average	15930.000	30.74	10.33	41.07	54.00	-12.93	157	234	Average
15930.000	42.39	10.33	52.72	74.00	-21.28	153	172	Peak	15930.000	42.45	10.33	52.78	74.00	-21.22	157	234	Peak

802.11ax HE80 Mode:

5290 MHz																	
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)	(°)	
10580.000	40.43	5.68	46.11	68.20	-22.09	152	81	Peak	10580.000	41.18	5.68	46.86	68.20	-21.34	155	316	Peak
15870.000	30.30	10.08	40.38	54.00	-13.62	155	40	Average	15870.000	30.18	10.08	40.26	54.00	-13.74	152	293	Average
15870.000	42.03	10.08	52.11	74.00	-21.89	155	40	Peak	15870.000	41.30	10.08	51.38	74.00	-22.62	152	293	Peak

802.11ax HE160 Mode:

5250 MHz																	
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)	(°)	
10500.000	40.54	5.70	46.24	68.20	-21.96	155	40	Peak	10500.000	40.91	5.70	46.61	68.20	-21.59	153	74	Peak
15750.000	31.28	9.75	41.03	54.00	-12.97	152	328	Average	15750.000	31.35	9.75	41.10	54.00	-12.90	151	66	Average
15750.000	43.35	9.75	53.10	74.00	-20.90	152	328	Peak	15750.000	43.18	9.75	52.93	74.00	-21.07	151	66	Peak

Level = Reading + Factor.

Margin = Level - Limit.

Factor = Antenna Factor + Cable Loss - Amplifier Gain.

5470-5725 MHz

802.11ac VHT20 Mode:

5500 MHz																	
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)	(°)	
11000.000	28.96	6.42	35.38	54.00	-18.62	154	64	Average	11000.000	29.30	6.42	35.72	54.00	-18.28	158	337	Average
11000.000	40.04	6.42	46.46	74.00	-27.54	154	64	Peak	11000.000	40.94	6.42	47.36	74.00	-26.64	158	337	Peak
16500.000	41.12	12.00	53.12	68.20	-15.08	151	168	Peak	16500.000	41.04	12.00	53.04	68.20	-15.16	153	126	Peak

5580 MHz																	
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)	(°)	
11160.000	28.60	6.83	35.43	54.00	-18.57	157	301	Average	11160.000	29.82	6.83	36.65	54.00	-17.35	150	147	Average
11160.000	40.51	6.83	47.34	74.00	-26.66	157	301	Peak	11160.000	40.58	6.83	47.41	74.00	-26.59	150	147	Peak
16740.000	43.06	11.79	54.85	68.20	-13.35	151	127	Peak	16740.000	41.82	11.79	53.61	68.20	-14.59	153	290	Peak

5700 MHz																	
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)	(°)	
11400.000	29.10	6.91	36.01	54.00	-17.99	151	277	Average	11400.000	29.05	6.91	35.96	54.00	-18.04	152	191	Average
11400.000	40.48	6.91	47.39	74.00	-26.61	151	277	Peak	11400.000	40.69	6.91	47.60	74.00	-26.40	152	191	Peak
17100.000	41.35	12.11	53.46	68.20	-14.74	153	236	Peak	17100.000	39.98	12.11	52.09	68.20	-16.11	159	155	Peak

Level = Reading + Factor.

Margin = Level - Limit.

Factor = Antenna Factor + Cable Loss - Amplifier Gain.

802.11ac VHT40 Mode:

5510 MHz																	
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)	(°)	
11020.000	29.07	6.53	35.60	54.00	-18.40	155	13	Average	11020.000	29.20	6.53	35.73	54.00	-18.27	151	59	Average
11020.000	40.60	6.53	47.13	74.00	-26.87	155	13	Peak	11020.000	40.06	6.53	46.59	74.00	-27.41	151	59	Peak
16530.000	41.33	12.07	53.40	68.20	-14.80	150	216	Peak	16530.000	41.38	12.07	53.45	68.20	-14.75	158	24	Peak

5550 MHz																	
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)	(°)	
11100.000	28.68	6.99	35.67	54.00	-18.33	148	113	Average	11100.000	29.22	6.99	36.21	54.00	-17.79	151	68	Average
11100.000	39.66	6.99	46.65	74.00	-27.35	148	113	Peak	11100.000	40.38	6.99	47.37	74.00	-26.63	151	68	Peak
16650.000	42.27	12.07	54.34	68.20	-13.86	155	297	Peak	16650.000	42.91	12.07	54.98	68.20	-13.22	152	14	Peak

5670 MHz																	
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)	(°)	
11340.000	29.41	6.99	36.40	54.00	-17.60	155	129	Average	11340.000	29.62	6.99	36.61	54.00	-17.39	152	51	Average
11340.000	40.10	6.99	47.09	74.00	-26.91	155	129	Peak	11340.000	40.97	6.99	47.96	74.00	-26.04	152	51	Peak
17010.000	40.50	11.95	52.45	68.20	-15.75	153	87	Peak	17010.000	40.67	11.95	52.62	68.20	-15.58	154	129	Peak

Level = Reading + Factor.

Margin = Level - Limit.

Factor = Antenna Factor + Cable Loss - Amplifier Gain.

802.11ac VHT80 Mode:

5530 MHz																	
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)	(°)	
11060.000	29.01	6.76	35.77	54.00	-18.23	154	221	Average	11060.000	29.00	6.76	35.76	54.00	-18.24	156	70	Average
11060.000	40.12	6.76	46.88	74.00	-27.12	154	221	Peak	11060.000	40.57	6.76	47.33	74.00	-26.67	156	70	Peak
16590.000	41.57	12.21	53.78	68.20	-14.42	152	360	Peak	16590.000	41.54	12.21	53.75	68.20	-14.45	152	169	Peak

5610 MHz																	
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)	(°)	
11220.000	28.83	6.80	35.63	54.00	-18.37	156	4	Average	11220.000	29.07	6.80	35.87	54.00	-18.13	154	247	Average
11220.000	40.99	6.80	47.79	74.00	-26.21	156	4	Peak	11220.000	40.59	6.80	47.39	74.00	-26.61	154	247	Peak
16830.000	41.74	11.57	53.31	68.20	-14.89	153	243	Peak	16830.000	41.26	11.57	52.83	68.20	-15.37	156	343	Peak

802.11ac VHT160 Mode:

5570 MHz																	
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)	(°)	
11140.000	28.59	6.89	35.48	54.00	-18.52	151	252	Average	11140.000	28.70	6.89	35.59	54.00	-18.41	158	301	Average
11140.000	40.61	6.89	47.50	74.00	-26.50	151	252	Peak	11140.000	39.56	6.89	46.45	74.00	-27.55	158	301	Peak
16710.000	42.27	11.87	54.14	68.20	-14.06	154	188	Peak	16710.000	41.97	11.87	53.84	68.20	-14.36	159	220	Peak

802.11ax HE20 Mode:

5500 MHz																	
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)	(°)	
11000.000	29.03	6.42	35.45	54.00	-18.55	150	360	Average	11000.000	29.19	6.42	35.61	54.00	-18.39	157	0	Average
11000.000	41.67	6.42	48.09	74.00	-25.91	150	360	Peak	11000.000	42.14	6.42	48.56	74.00	-25.44	157	0	Peak
16500.000	42.00	12.00	54.00	68.20	-14.20	155	88	Peak	16500.000	41.97	12.00	53.97	68.20	-14.23	151	289	Peak

5580 MHz																	
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)	(°)	
11160.000	28.77	6.83	35.60	54.00	-18.40	156	360	Average	11160.000	29.86	6.83	36.69	54.00	-17.31	156	358	Average
11160.000	40.95	6.83	47.78	74.00	-26.22	156	360	Peak	11160.000	41.05	6.83	47.88	74.00	-26.12	156	358	Peak
16740.000	42.24	11.79	54.03	68.20	-14.17	157	311	Peak	16740.000	41.95	11.79	53.74	68.20	-14.46	152	181	Peak

5700 MHz																	
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)	(°)	
11400.000	29.21	6.91	36.12	54.00	-17.88	154	201	Average	11400.000	29.95	6.91	36.86	54.00	-17.14	152	6	Average
11400.000	40.36	6.91	47.27	74.00	-26.73	154	201	Peak	11400.000	41.32	6.91	48.23	74.00	-25.77	152	6	Peak
17100.000	40.96	12.11	53.07	68.20	-15.13	151	190	Peak	17100.000	40.73	12.11	52.84	68.20	-15.36	155	191	Peak

802.11ax HE40 Mode:

5510 MHz									
Horizontal					Vertical				
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark	
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		
11020.000	29.17	6.53	35.70	54.00	-18.30	154	202	Average	
11020.000	40.79	6.53	47.32	74.00	-26.68	154	202	Peak	
16530.000	41.89	12.07	53.96	68.20	-14.24	151	256	Peak	
11020.000	29.25	6.53	35.78	54.00	-18.22	158	91	Average	
11020.000	40.02	6.53	46.55	74.00	-27.45	158	91	Peak	
16530.000	41.25	12.07	53.32	68.20	-14.88	157	308	Peak	

5550 MHz									
Horizontal					Vertical				
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark	
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		
11100.000	28.65	6.99	35.64	54.00	-18.36	153	354	Average	
11100.000	40.48	6.99	47.47	74.00	-26.53	153	354	Peak	
16650.000	42.62	12.07	54.69	68.20	-13.51	157	200	Peak	
11100.000	29.10	6.99	36.09	54.00	-17.91	156	2	Average	
11100.000	40.08	6.99	47.07	74.00	-26.93	156	2	Peak	
16650.000	42.30	12.07	54.37	68.20	-13.83	154	264	Peak	

5670 MHz									
Horizontal					Vertical				
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark	
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		
11340.000	29.15	6.99	36.14	54.00	-17.86	158	0	Average	
11340.000	40.79	6.99	47.78	74.00	-26.22	158	0	Peak	
17010.000	40.14	11.95	52.09	68.20	-16.11	152	76	Peak	
11340.000	29.51	6.99	36.50	54.00	-17.50	152	359	Average	
11340.000	41.48	6.99	48.47	74.00	-25.53	152	359	Peak	
17010.000	40.16	11.95	52.11	68.20	-16.09	155	0	Peak	

802.11ax HE80 Mode:

5530 MHz																	
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)	(°)	
11060.000	29.11	6.76	35.87	54.00	-18.13	156	111	Average	11060.000	28.99	6.76	35.75	54.00	-18.25	155	169	Average
11060.000	40.22	6.76	46.98	74.00	-27.02	156	111	Peak	11060.000	41.65	6.76	48.41	74.00	-25.59	155	169	Peak
16590.000	42.09	12.21	54.30	68.20	-13.90	155	134	Peak	16590.000	41.21	12.21	53.42	68.20	-14.78	158	282	Peak

5610 MHz																	
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)	(°)	
11220.000	28.90	6.80	35.70	54.00	-18.30	151	33	Average	11220.000	29.13	6.80	35.93	54.00	-18.07	158	13	Average
11220.000	40.18	6.80	46.98	74.00	-27.02	151	33	Peak	11220.000	40.26	6.80	47.06	74.00	-26.94	158	13	Peak
16830.000	41.62	11.57	53.19	68.20	-15.01	156	33	Peak	16830.000	42.83	11.57	54.40	68.20	-13.80	154	321	Peak

802.11ax HE160 Mode:

5570 MHz																	
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)	(°)	
11140.000	28.66	6.89	35.55	54.00	-18.45	151	360	Average	11140.000	28.63	6.89	35.52	54.00	-18.48	156	296	Average
11140.000	39.82	6.89	46.71	74.00	-27.29	151	360	Peak	11140.000	40.44	6.89	47.33	74.00	-26.67	156	296	Peak
16710.000	42.51	11.87	54.38	68.20	-13.82	155	92	Peak	16710.000	41.89	11.87	53.76	68.20	-14.44	155	230	Peak
17762.000	31.21	13.02	44.23	54.00	-9.77	150	313	Average	17762.000	30.89	13.02	43.91	54.00	-10.09	150	59	Average
17762.000	43.53	13.02	56.55	74.00	-17.45	150	313	Peak	17762.000	43.57	13.02	56.59	74.00	-17.41	150	59	Peak

Level = Reading + Factor.

Margin = Level - Limit.

Factor = Antenna Factor + Cable Loss - Amplifier Gain.

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

9 FCC §15.407(a) – Emission Bandwidth And Occupied Bandwidth

9.1 Applicable Standard

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

9.2 Test Procedure

26dB Emission Bandwidth (EBW)

According to ANSI C63.10-2013 Section 12.4.1

- a) Set RBW = approximately 1% of the emission bandwidth.
- b) Set the VBW > RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

99% Occupied Bandwidth:

According to ANSI C63.10-2013 Section 12.4.2&6.9.3

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

- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2.
- d) Step a) through step c) might require iteration to adjust within the specified range.
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
- g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two

frequencies.

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

9.3 Test Results

Test mode: Transmitting

Non Beamforming Mode:

5250-5350 MHz

Mode	Channel	Frequency (MHz)	26dB Emission Bandwidth (MHz)			99% Emission Bandwidth (MHz)		
			Chain 0	Chain 1	Chain 2	Chain 0	Chain 1	Chain 2
802.11a	52	5260	20.76	21.32	21.52	16.50	16.62	16.54
	60	5300	28.32	26.88	29.04	16.74	16.82	16.78
	64	5320	28.00	28.40	26.72	16.78	16.78	16.86
802.11ac 20	52	5260	22.08	21.76	21.76	17.66	17.66	17.66
	60	5300	37.28	33.96	37.00	17.94	17.90	17.94
	64	5320	34.60	33.88	34.28	17.86	17.90	17.90
802.11ac 40	54	5270	41.12	41.12	41.20	36.28	36.28	36.28
	62	5310	60.48	62.32	60.88	36.52	36.60	36.60
802.11ac 80	58	5290	111.52	115.52	113.28	75.76	75.76	75.76
802.11ac 160	50	5250	166.00	165.20	163.60	155.36	156.00	155.36
802.11ax 20	52	5260	22.28	22.68	22.52	18.98	18.98	18.98
	60	5300	28.12	24.64	25.68	19.10	19.10	19.14
	64	5320	28.36	27.00	29.20	19.14	19.10	19.10
802.11ax 40	54	5270	39.68	39.76	39.68	37.56	37.56	37.56
	62	5310	55.36	59.20	51.20	37.64	37.80	37.72
802.11ax 80	58	5290	105.28	102.40	102.40	77.04	77.04	77.04
802.11ax 160	50	5250	162.80	163.44	165.52	155.36	155.36	155.36

5470-5725MHz

Mode	Channel	Frequency (MHz)	26dB Emission Bandwidth (MHz)			99% Emission Bandwidth (MHz)		
			Chain 0	Chain 1	Chain 2	Chain 0	Chain 1	Chain 2
802.11a	100	5500	27.20	26.56	26.32	16.66	16.82	16.74
	116	5580	20.84	21.28	20.68	16.50	16.54	16.50
	140	5700	24.88	25.04	26.88	16.66	16.66	16.66
802.11ac 20	100	5500	29.68	29.32	27.76	17.90	17.86	17.86
	116	5580	21.36	22.20	21.72	17.74	17.62	17.74
	140	5700	32.60	33.52	32.28	17.82	17.78	17.82
802.11ac 40	102	5510	62.96	60.88	63.76	36.52	36.52	36.60
	118	5550	42.00	41.36	41.20	36.28	36.20	36.28
	134	5670	67.76	67.20	68.80	36.68	36.68	36.68
802.11ac 80	106	5530	113.92	113.92	112.96	75.76	75.76	75.76
	122	5610	80.48	80.16	80.32	75.28	75.28	75.28
802.11ac 160	114	5570	172.23	172.07	170.95	153.77	153.77	153.77
802.11ax 20	100	5500	29.36	27.96	26.20	19.06	19.02	19.14
	116	5580	22.48	22.52	21.84	18.98	19.02	18.94
	140	5700	24.36	26.88	25.32	19.02	19.02	19.02
802.11ax 40	102	5510	57.28	53.04	57.20	37.72	37.72	37.72
	118	5550	39.76	39.68	39.84	37.48	37.56	37.56
	134	5670	60.64	63.92	62.24	37.80	37.80	37.80
802.11ax 80	106	5530	94.56	96.64	93.76	77.20	77.20	77.20
	122	5610	80.48	80.48	80.64	77.04	76.88	76.88
802.11ax 160	114	5570	164.56	168.40	163.44	155.36	155.36	155.68

Beamforming Mode:

5250-5350MHz

Mode	Channel	Frequency (MHz)	26dB Emission Bandwidth (MHz)			99% Emission Bandwidth (MHz)		
			Chain 0	Chain 1	Chain 2	Chain 0	Chain 1	Chain 2
802.11ac 20	52	5260	21.72	21.88	21.48	17.74	17.70	17.70
	60	5300	26.52	25.44	23.32	17.82	17.82	17.86
	64	5320	25.56	27.28	26.60	17.78	17.86	17.82
802.11ac 40	54	5270	41.36	41.04	41.12	36.28	36.20	36.28
	62	5310	49.47	49.47	46.75	36.60	36.52	36.60
802.11ac 80	58	5290	109.60	109.44	109.12	75.60	75.60	75.92
802.11ac 160	50	5250	173.51	173.19	174.47	154.09	154.09	154.09
802.11ax 20	52	5260	23.00	22.92	22.20	19.02	18.94	18.94
	60	5300	28.84	26.96	27.72	19.18	19.06	19.06
	64	5320	27.60	28.32	27.72	19.06	18.98	19.18
802.11ax 40	54	5270	40.24	40.40	40.56	37.56	37.64	37.56
	62	5310	58.00	57.52	57.92	37.72	37.72	37.72
802.11ax 80	58	5290	112.16	112.48	108.32	77.20	77.20	77.36
802.11ax 160	50	5250	170.95	175.11	173.19	155.68	155.68	155.68

5470-5725MHz

Mode	Channel	Frequency (MHz)	26dB Emission Bandwidth (MHz)			99% Emission Bandwidth (MHz)		
			Chain 0	Chain 1	Chain 2	Chain 0	Chain 1	Chain 2
802.11ac 20	100	5500	24.96	26.00	25.28	17.78	17.78	17.82
	116	5580	21.92	21.96	21.92	17.66	17.66	17.74
	140	5700	24.88	25.36	23.88	17.82	17.78	17.74
802.11ac 40	102	5510	49.13	48.41	48.49	36.60	36.60	36.60
	118	5550	41.20	41.04	40.88	36.28	36.28	36.28
	134	5670	71.12	70.48	70.00	36.76	36.84	36.84
802.11ac 80	106	5530	109.60	114.56	108.64	75.60	75.60	75.60
	122	5610	80.16	80.48	80.00	75.12	75.28	75.28
802.11ac 160	114	5570	172.40	176.55	174.95	153.77	153.77	153.77
802.11ax 20	100	5500	28.60	25.72	26.52	19.02	19.06	18.98
	116	5580	22.84	22.08	22.12	18.98	19.02	18.94
	140	5700	25.96	27.92	26.28	19.14	18.98	19.02
802.11ax 40	102	5510	53.12	54.00	54.32	37.80	37.72	37.80
	118	5550	39.76	39.76	39.76	37.56	37.48	37.56
	134	5670	65.44	64.64	62.72	37.88	37.80	37.80
802.11ax 80	106	5530	108.96	109.12	106.40	77.20	77.20	77.36
	122	5610	80.48	80.32	80.48	76.88	76.88	77.04
802.11ax 160	114	5570	177.19	176.71	176.71	155.68	155.68	155.68

Please refer to the following plots

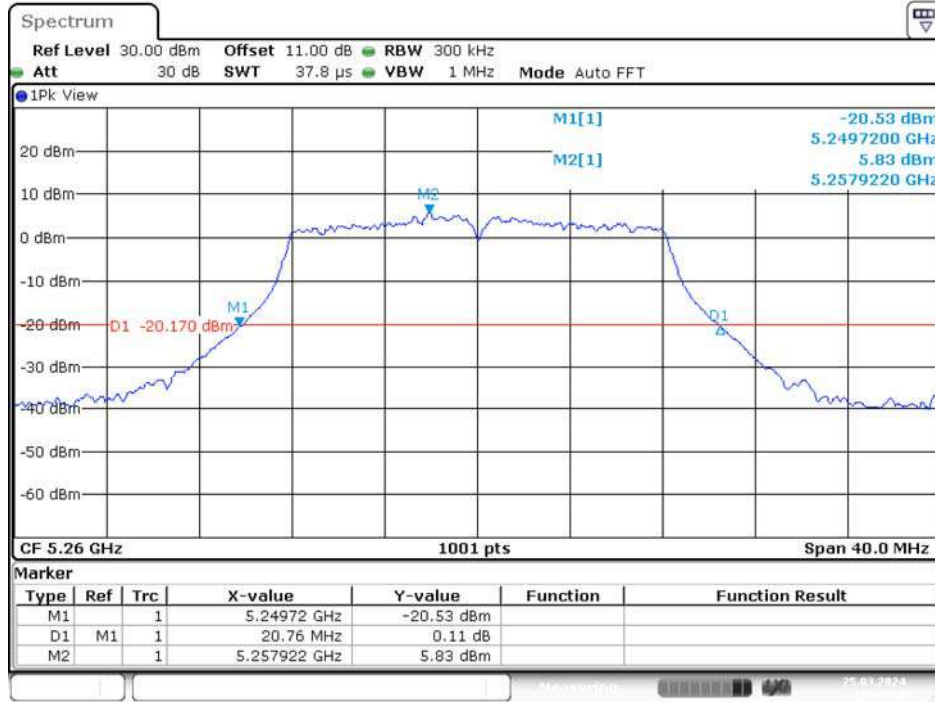
UNII-2A Band II / BW 26dBc

Non Beamforming Mode:

Chain 0

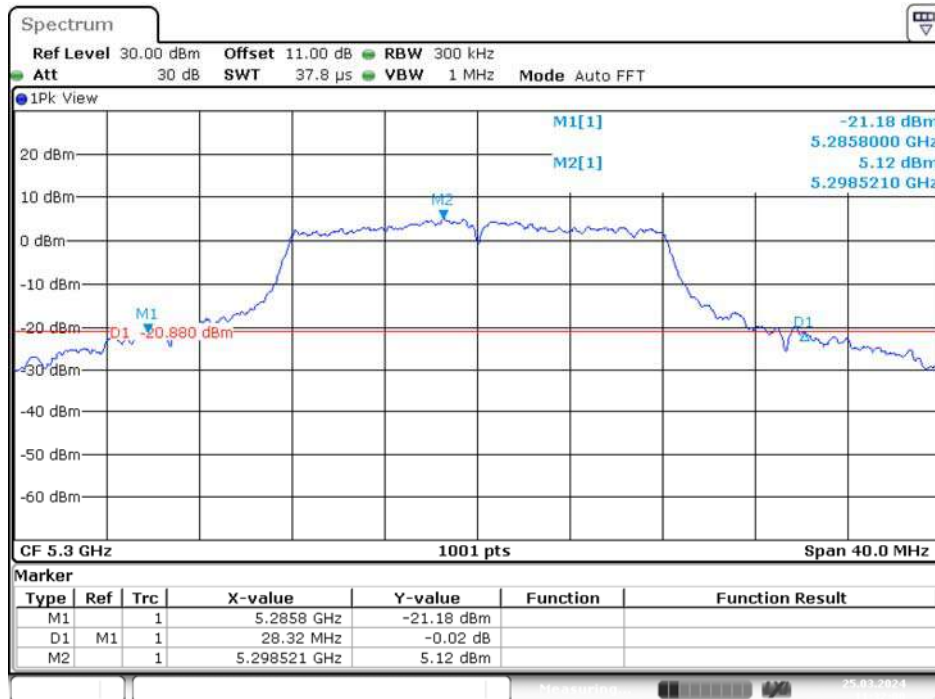
IEEE 802.11a Mode / 5250 ~ 5350MHz

5260MHz



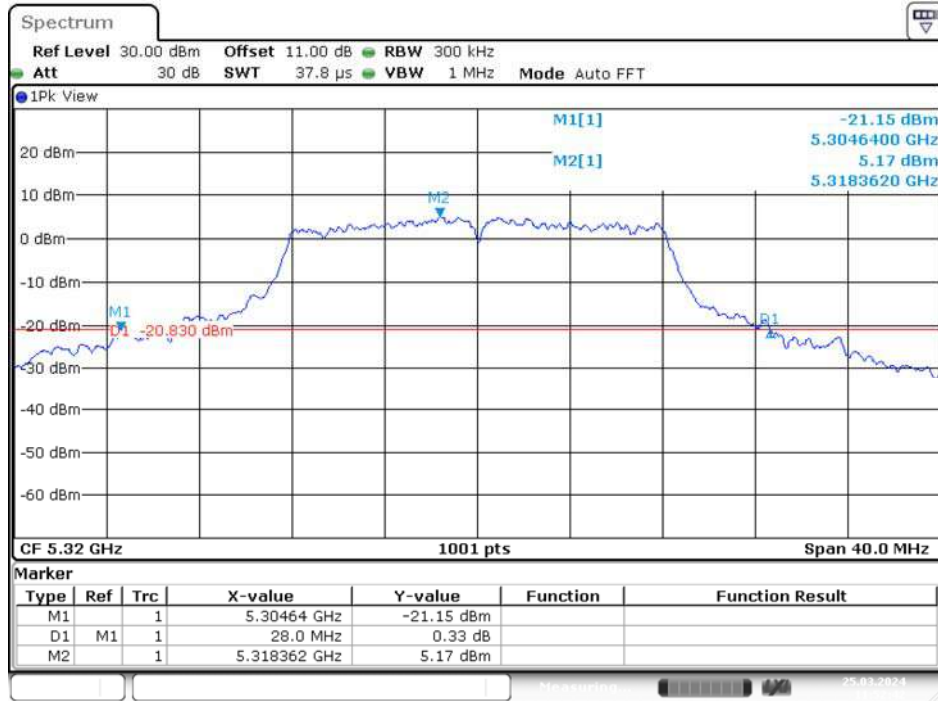
Date: 25.MAR.2024 10:45:30

5300MHz



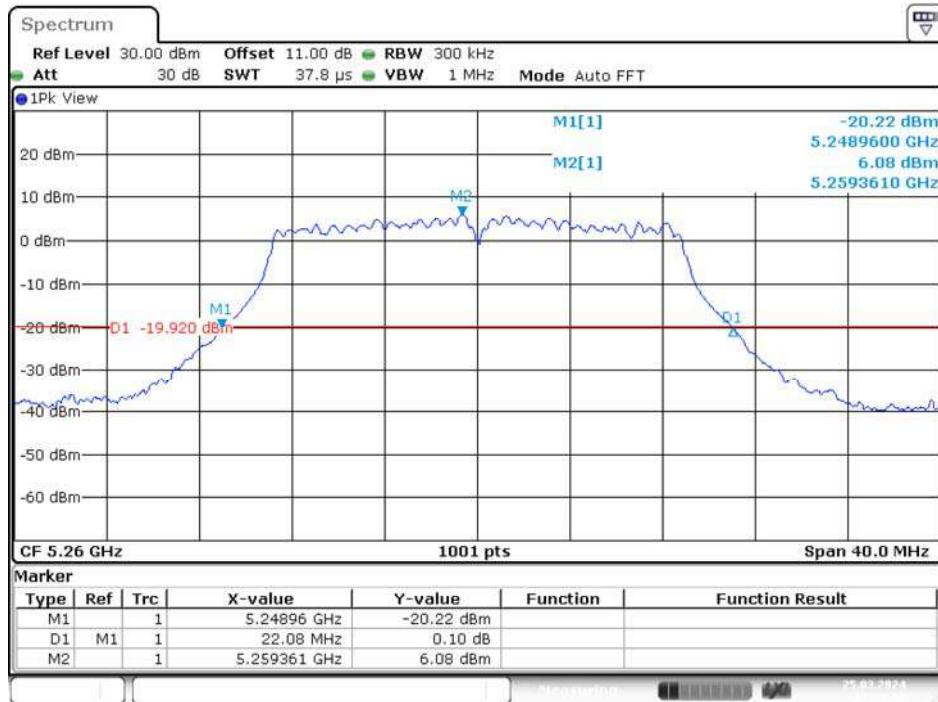
Date: 25.MAR.2024 11:32:00

5320MHz

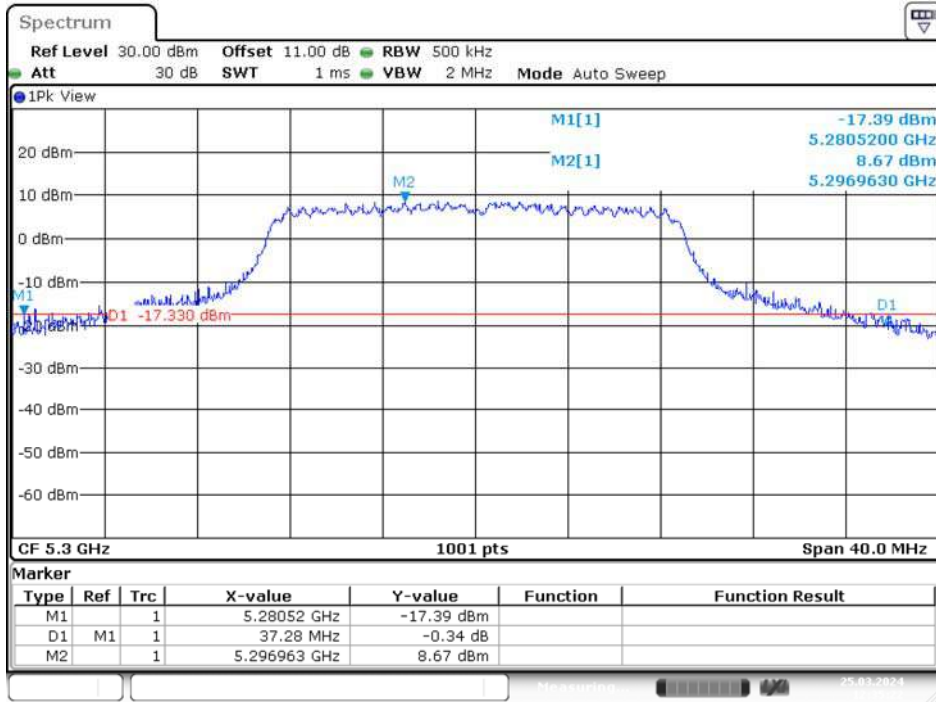


IEEE 802.11ac VHT20 Mode / 5250 ~ 5350MHz

5260MHz

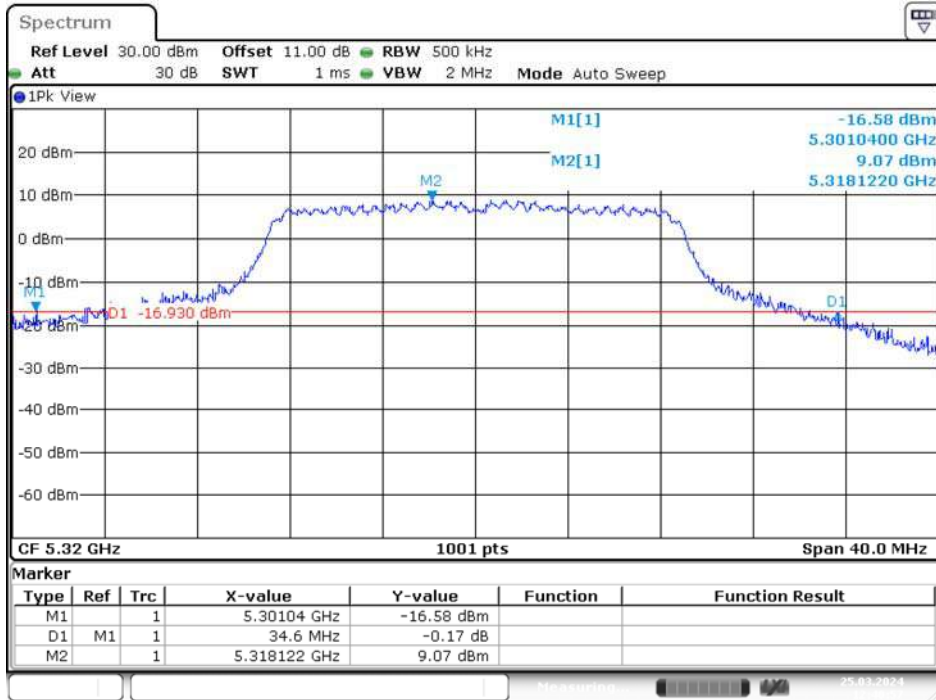


5300MHz



Date: 25.MAR.2024 12:35:23

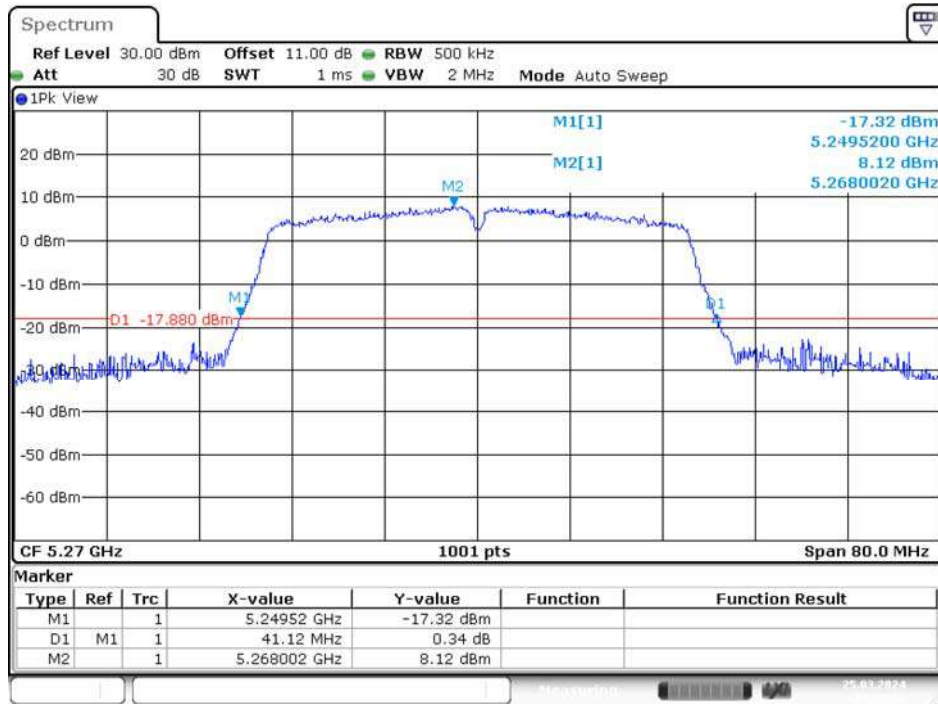
5320MHz



Date: 25.MAR.2024 12:40:57

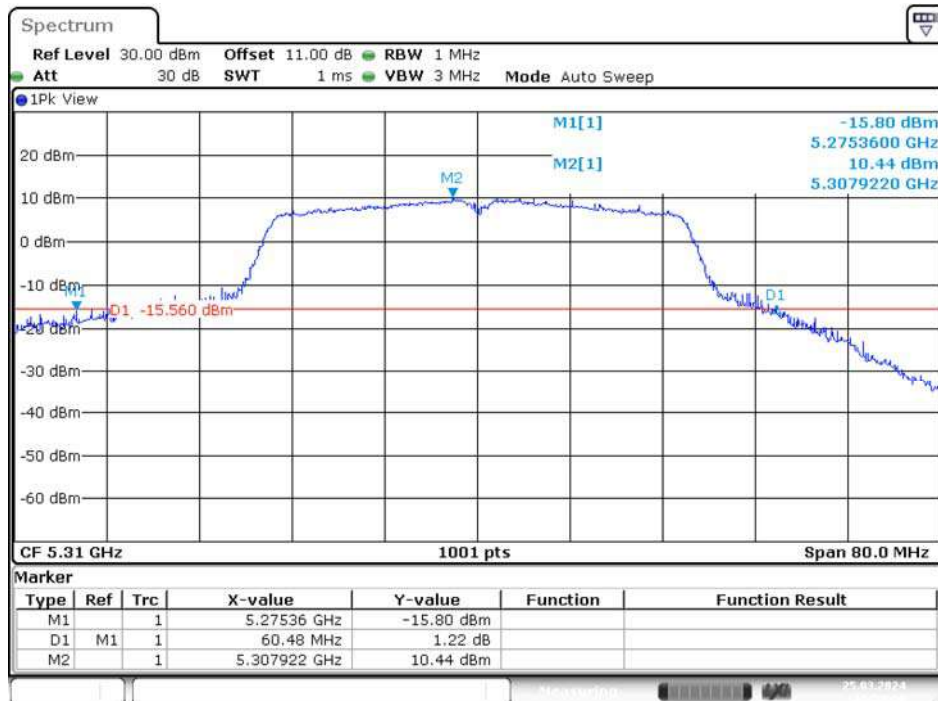
IEEE 802.11ac VHT40 Mode / 5250 ~ 5350MHz

5270MHz



Date: 25.MAR.2024 14:28:33

5310MHz



Date: 25.MAR.2024 15:59:40

IEEE 802.11ac VHT80 Mode / 5250 ~ 5350MHz

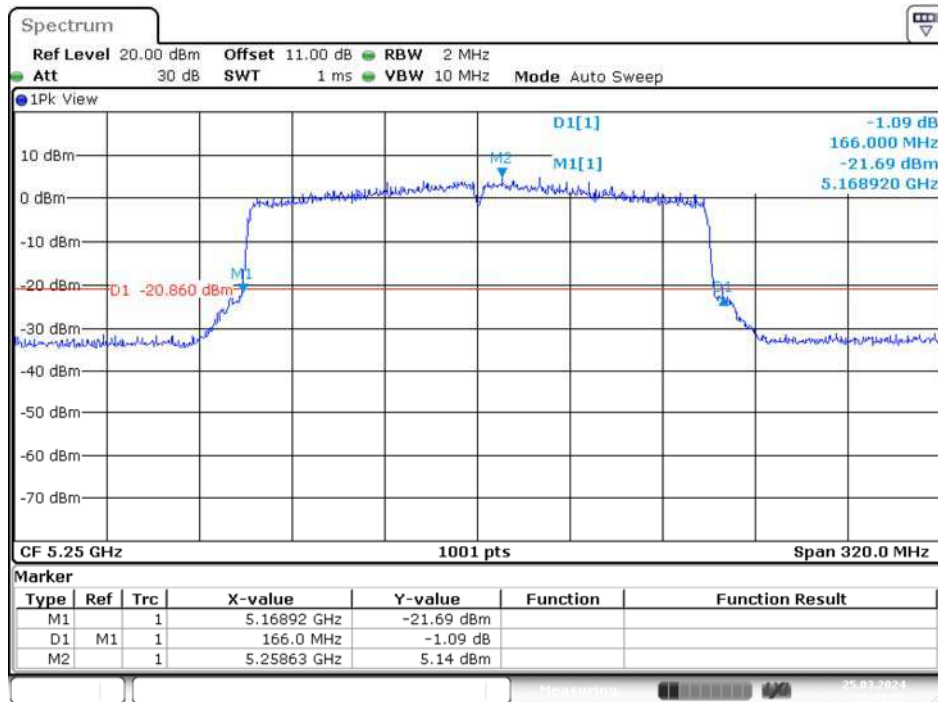
5290MHz



Date: 25.MAR.2024 16:27:21

IEEE 802.11ac VHT160 Mode / 5250 ~ 5350MHz

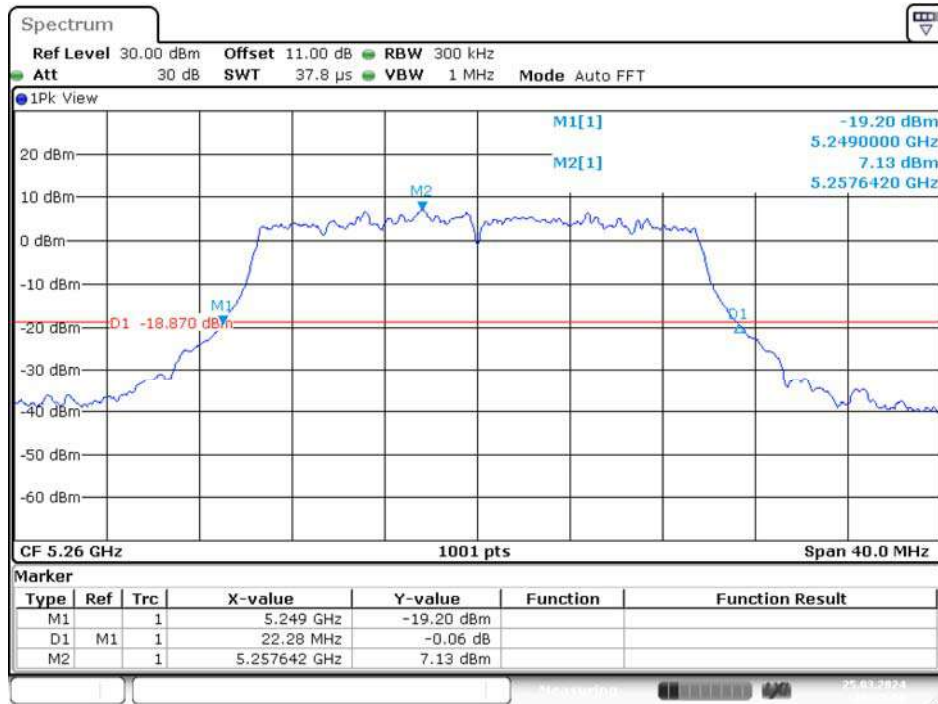
5250MHz



Date: 25.MAR.2024 19:43:40

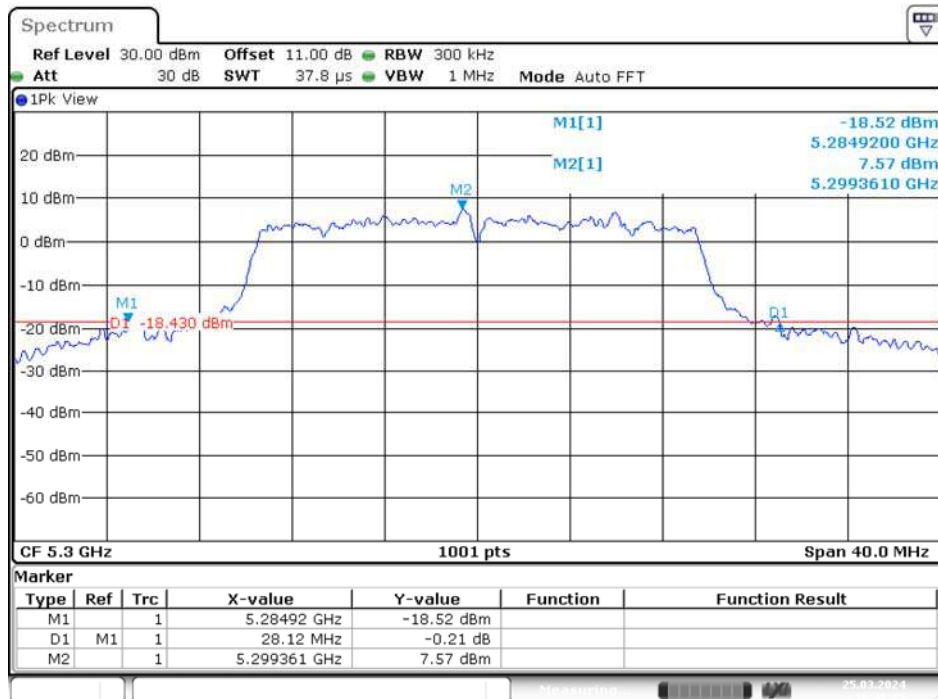
IEEE 802.11ax HE20 Mode / 5250 ~ 5350MHz

5260MHz



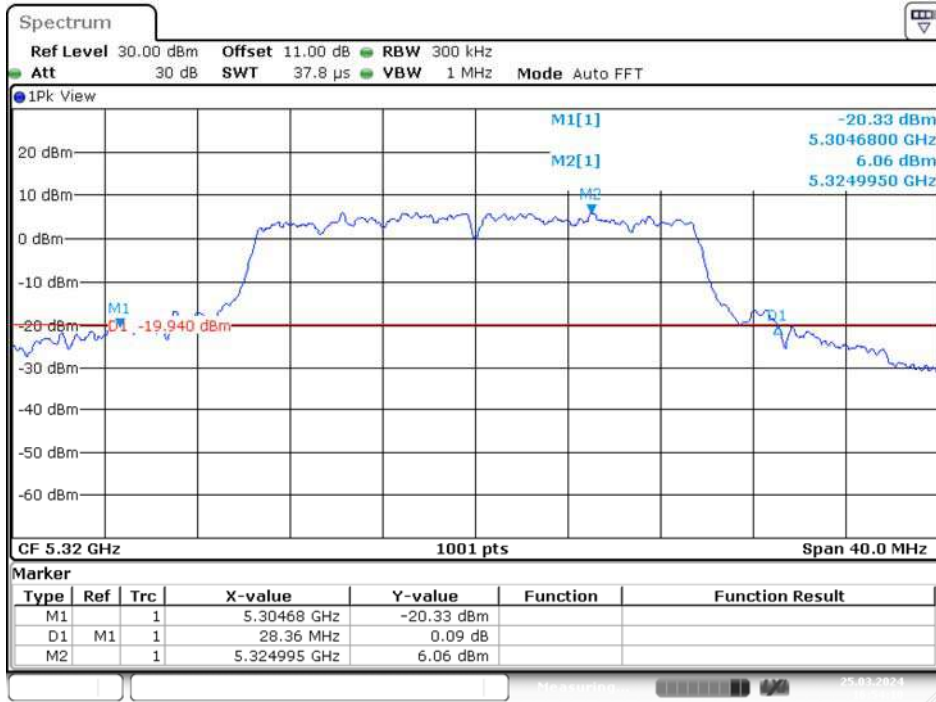
Date: 25.MAR.2024 16:35:09

5300MHz



Date: 25.MAR.2024 16:45:35

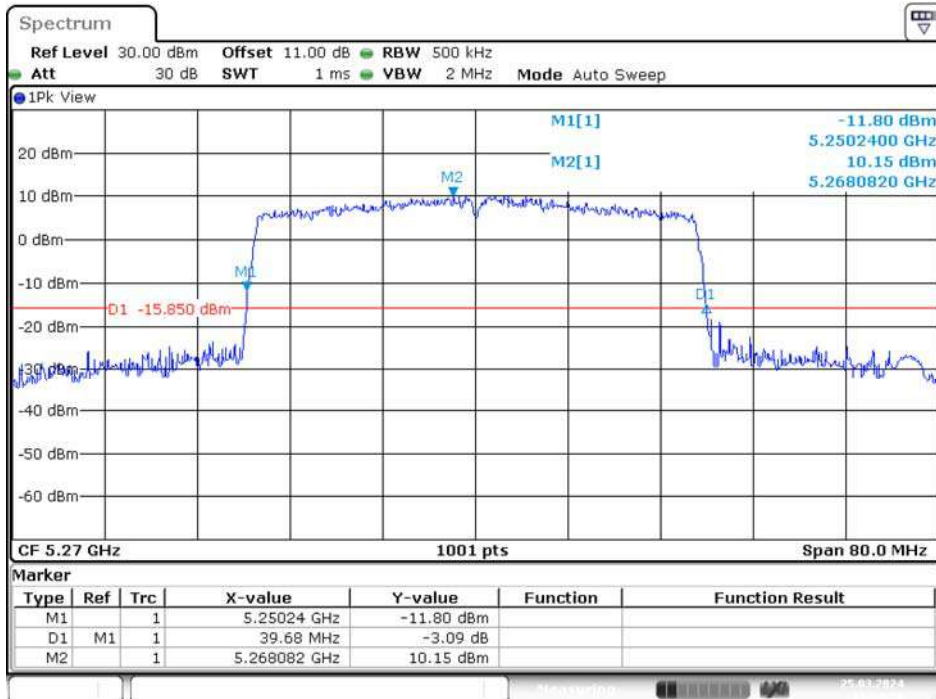
5320MHz



Date: 25.MAR.2024 16:54:11

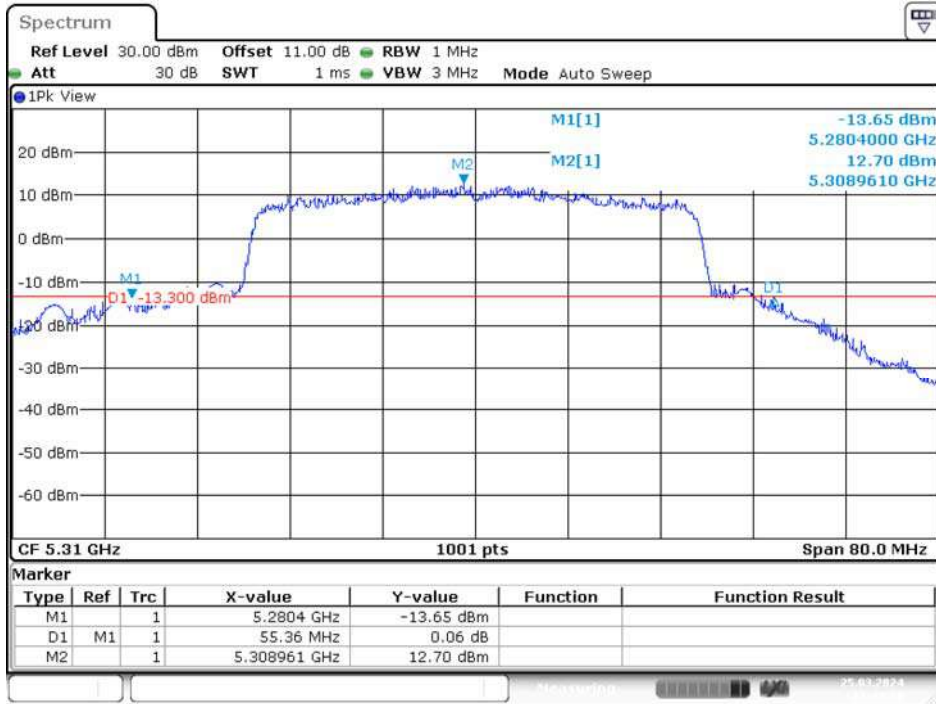
IEEE 802.11ax HE40 Mode / 5250 ~ 5350MHz

5270MHz



Date: 25.MAR.2024 17:30:29

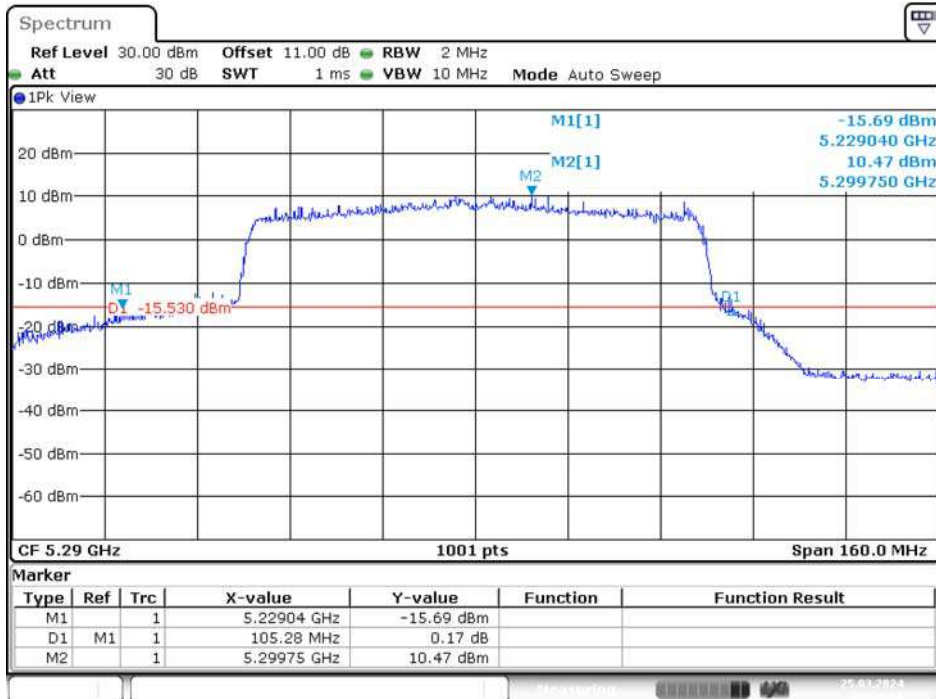
5310MHz



Date: 25.MAR.2024 17:41:20

IEEE 802.11ax HE80 Mode / 5250 ~ 5350MHz

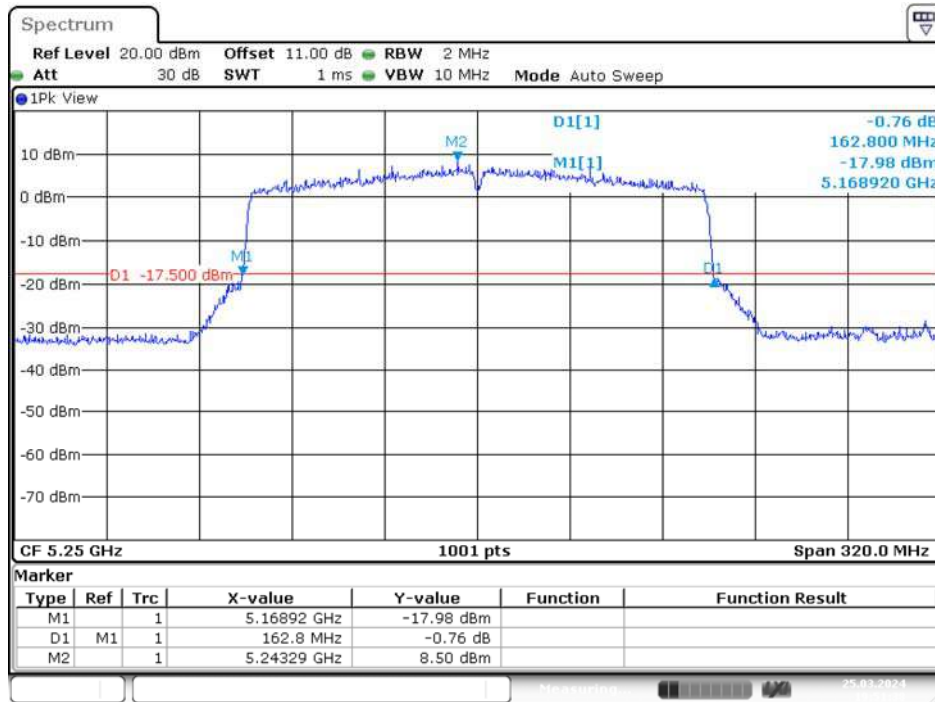
5290MHz



Date: 25.MAR.2024 19:10:10

IEEE 802.11ax HE160 Mode / 5250 ~ 5350MHz

5250MHz

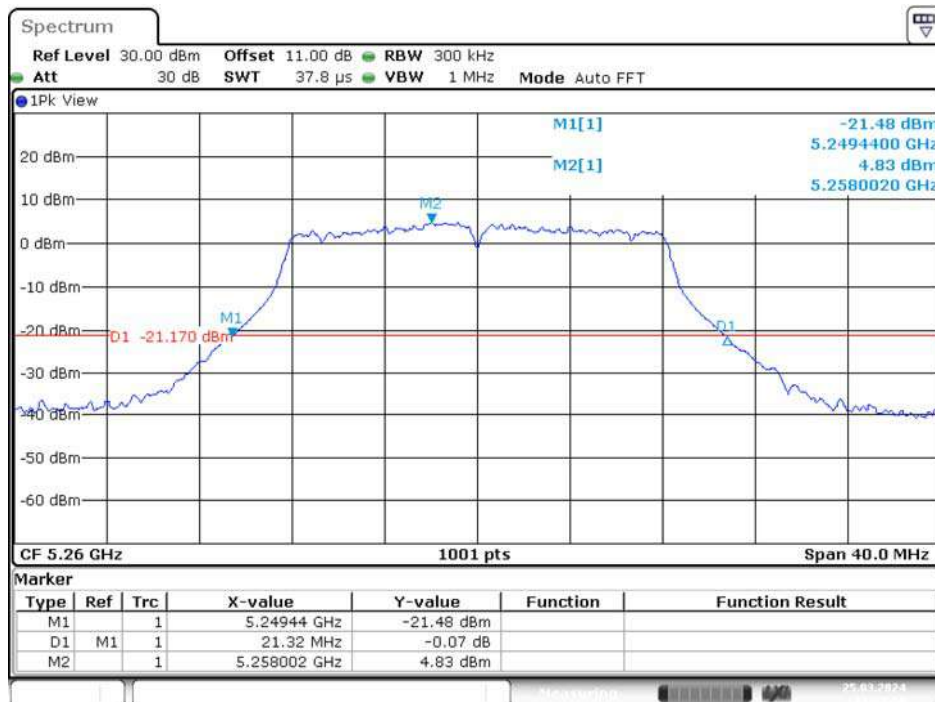


Date: 25.MAR.2024 19:51:38

Chain 1

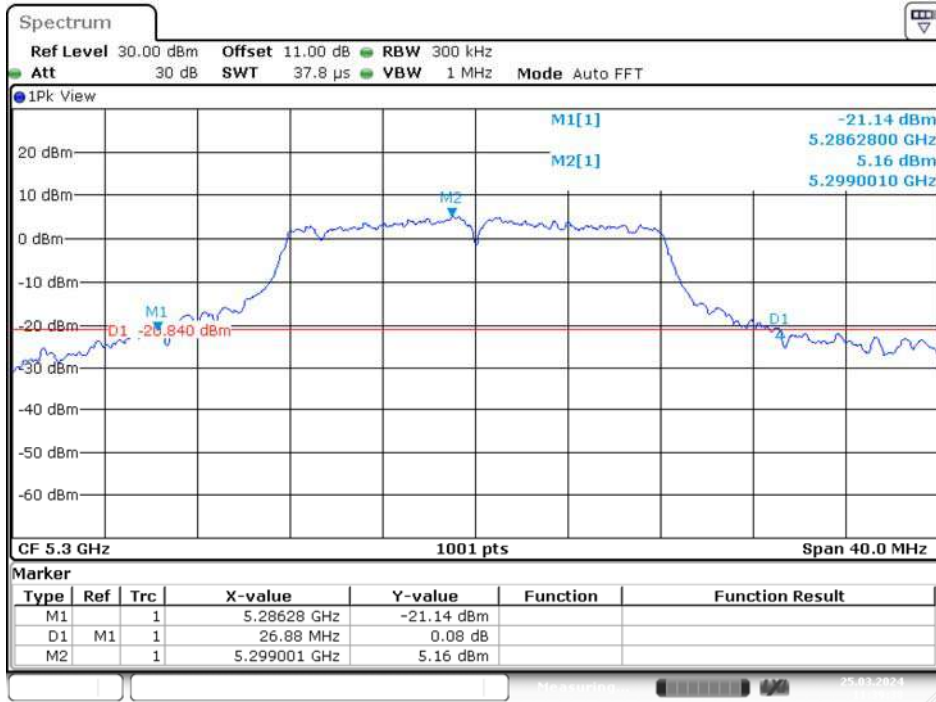
IEEE 802.11a Mode / 5250 ~ 5350MHz

5260MHz



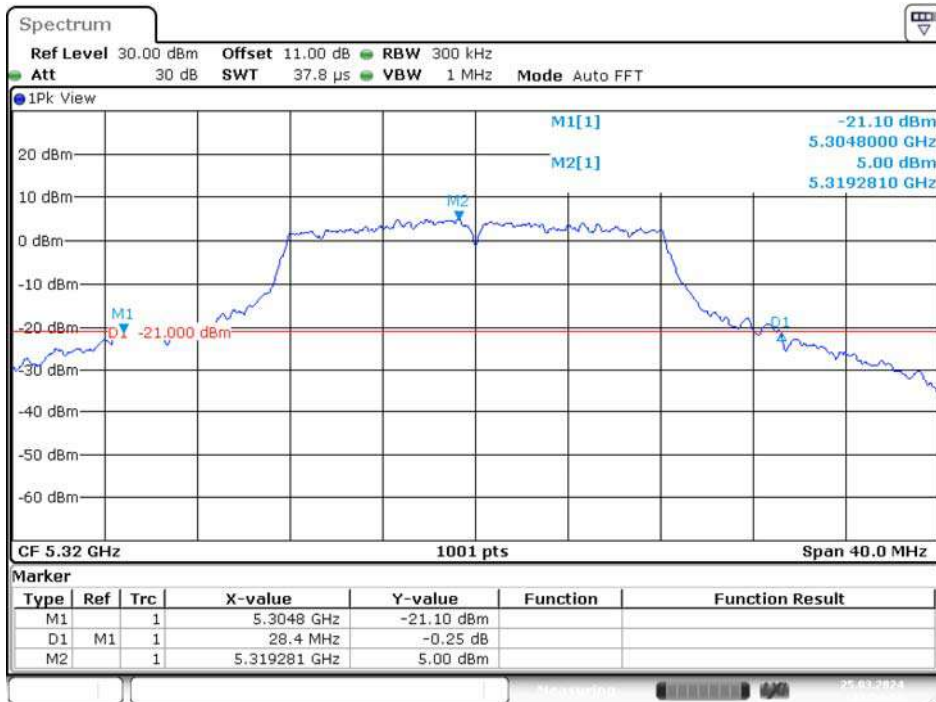
Date: 25.MAR.2024 11:23:20

5300MHz



Date: 25.MAR.2024 11:39:38

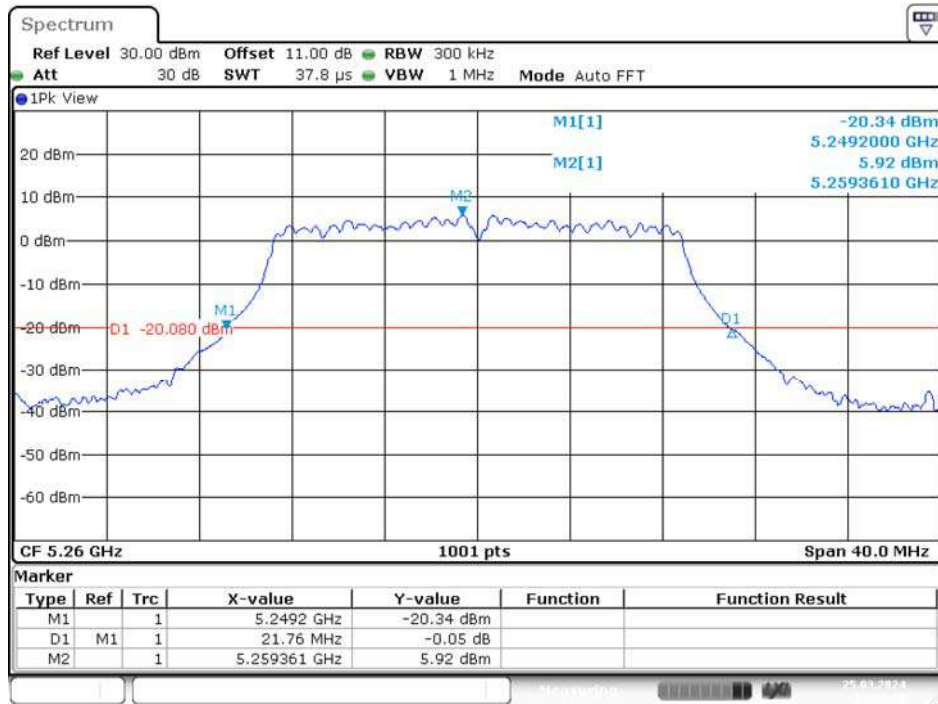
5320MHz



Date: 25.MAR.2024 11:54:04

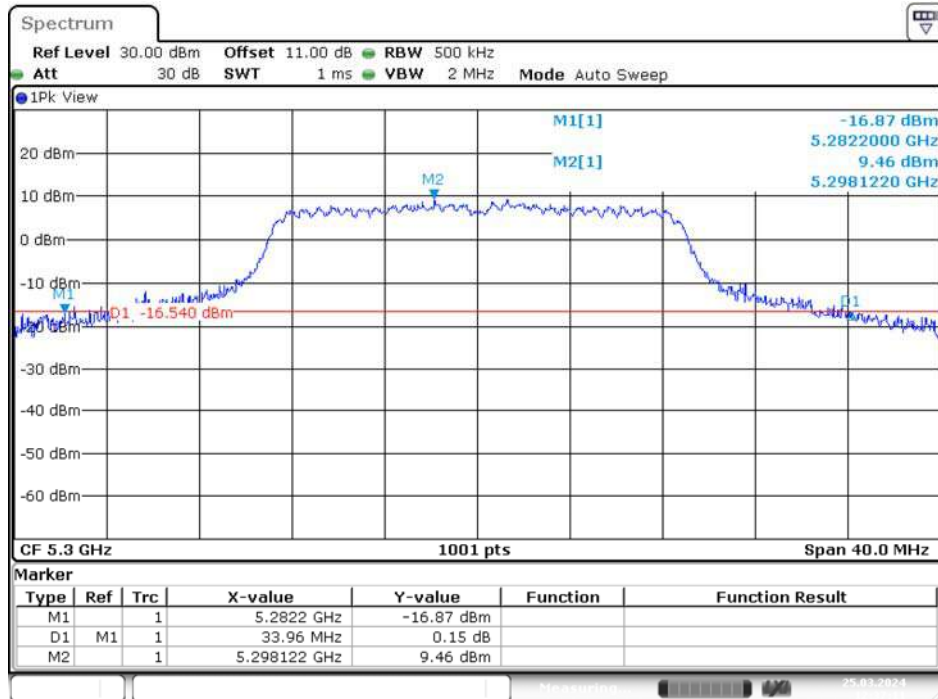
IEEE 802.11ac VHT20 Mode / 5250 ~ 5350MHz

5260MHz



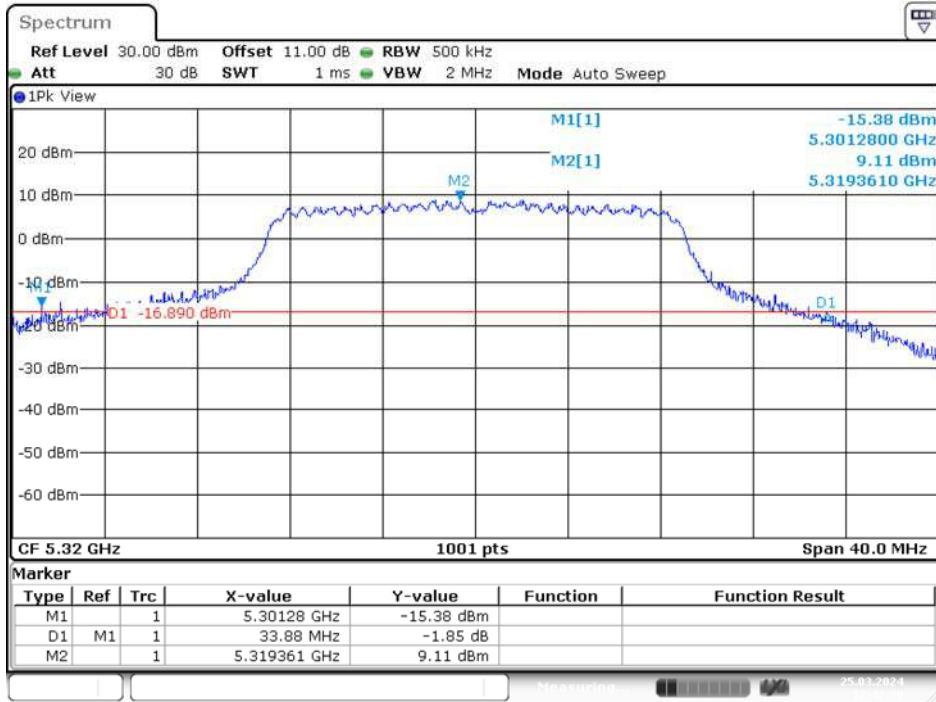
Date: 25.MAR.2024 12:24:48

5300MHz



Date: 25.MAR.2024 12:37:11

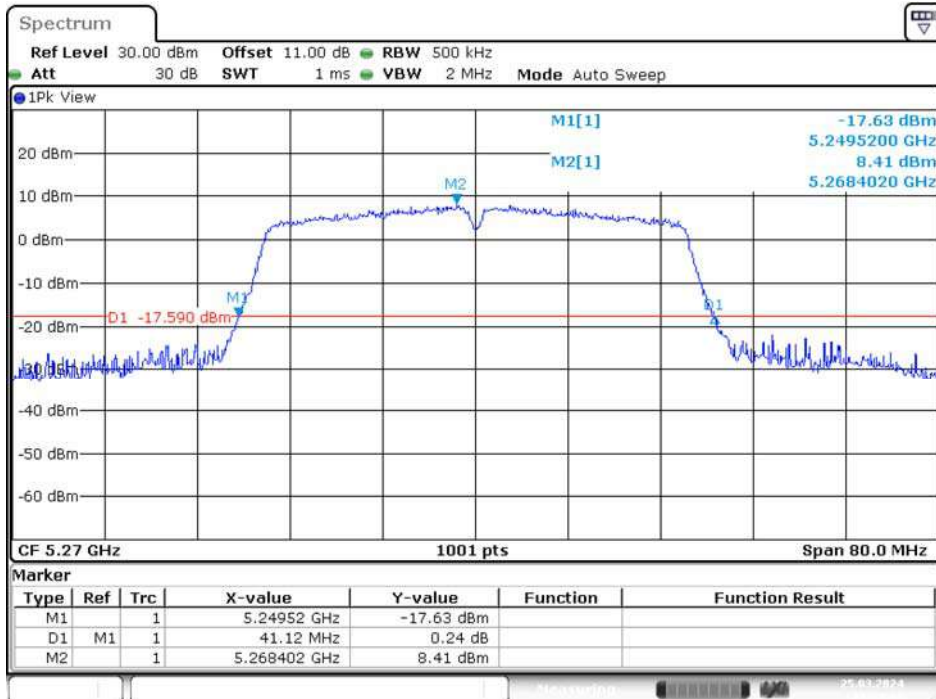
5320MHz



Date: 25.MAR.2024 12:42:30

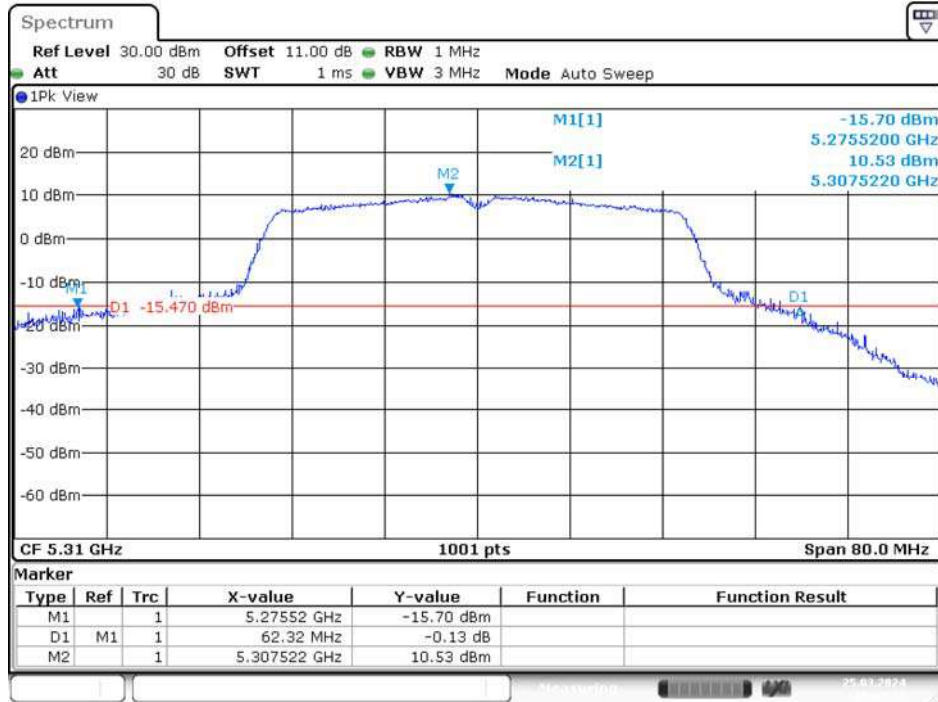
IEEE 802.11ac VHT40 Mode / 5250 ~ 5350MHz

5270MHz



Date: 25.MAR.2024 14:39:43

5310MHz



Date: 25.MAR.2024 16:03:45

IEEE 802.11ac VHT80 Mode / 5250 ~ 5350MHz

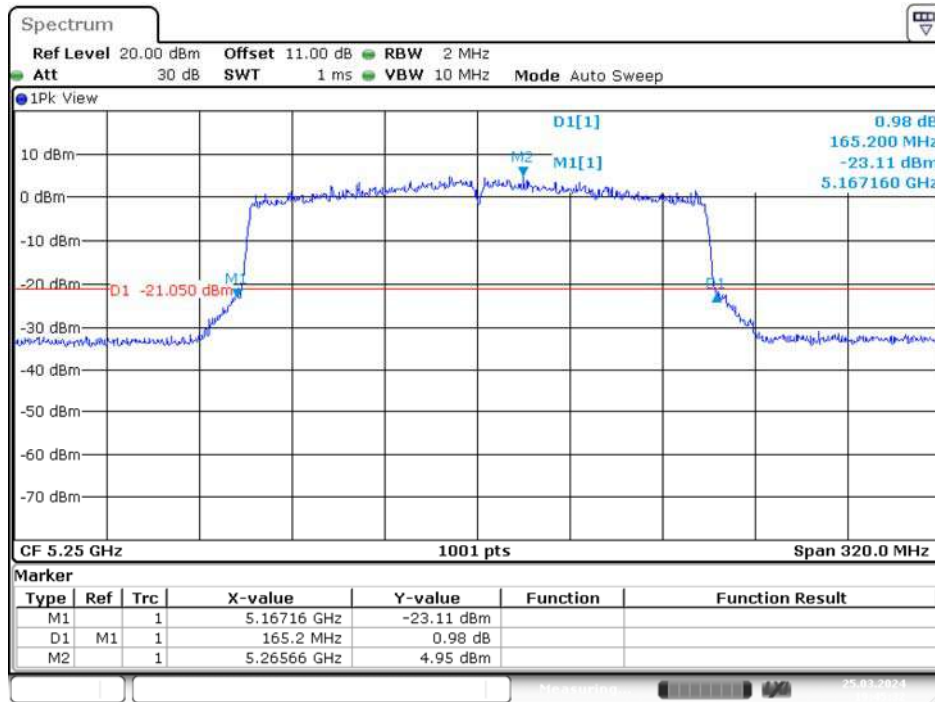
5290MHz



Date: 25.MAR.2024 16:28:20

IEEE 802.11ac VHT160 Mode / 5250 ~ 5350MHz

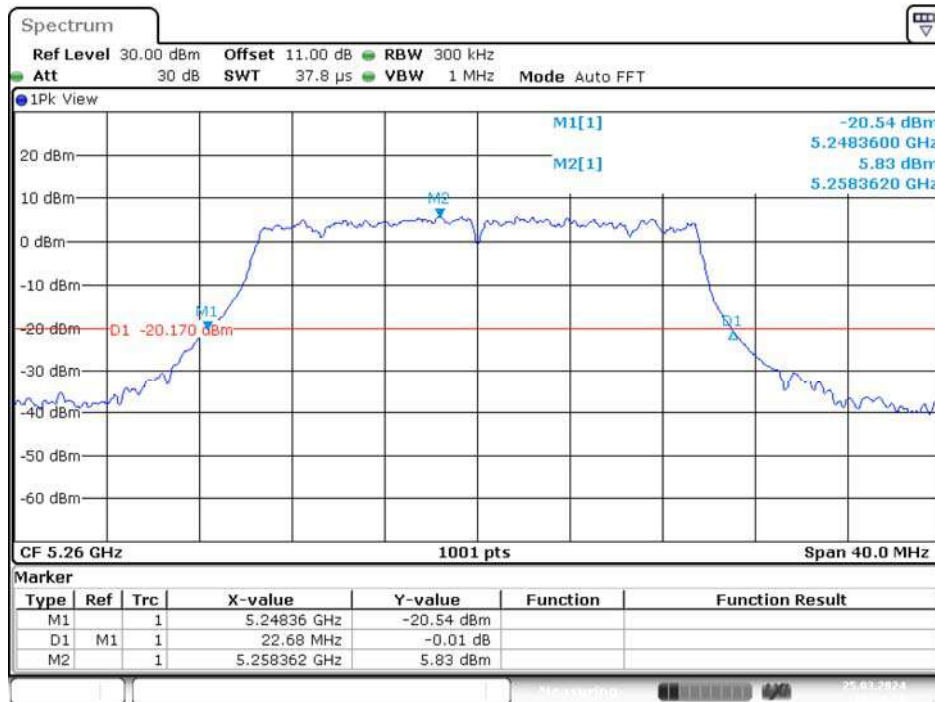
5250MHz



Date: 25.MAR.2024 19:45:33

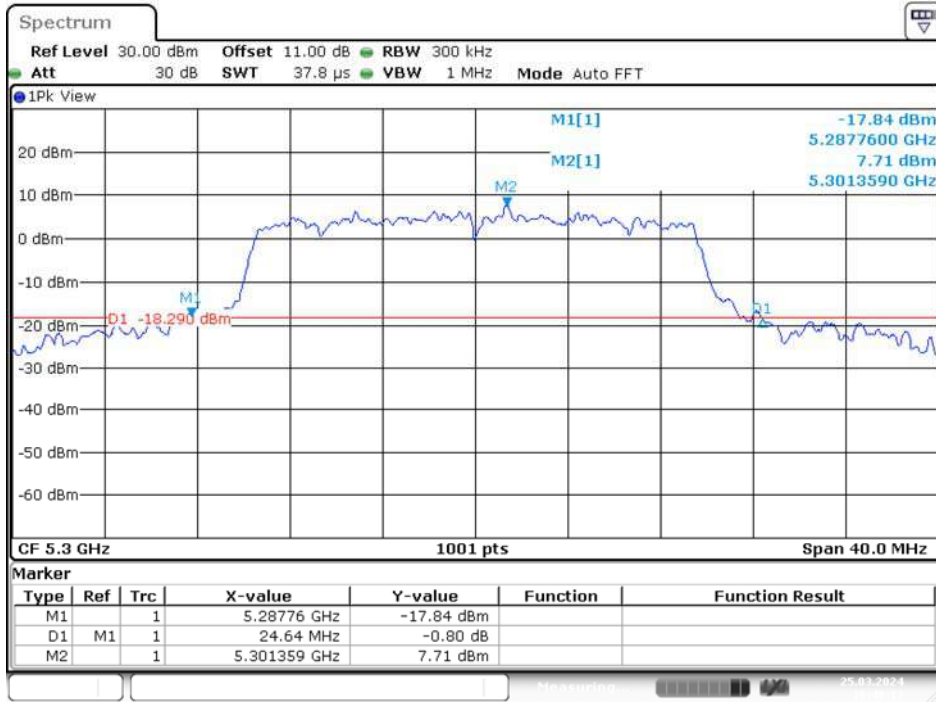
IEEE 802.11ax HE20 Mode / 5250 ~ 5350MHz

5260MHz



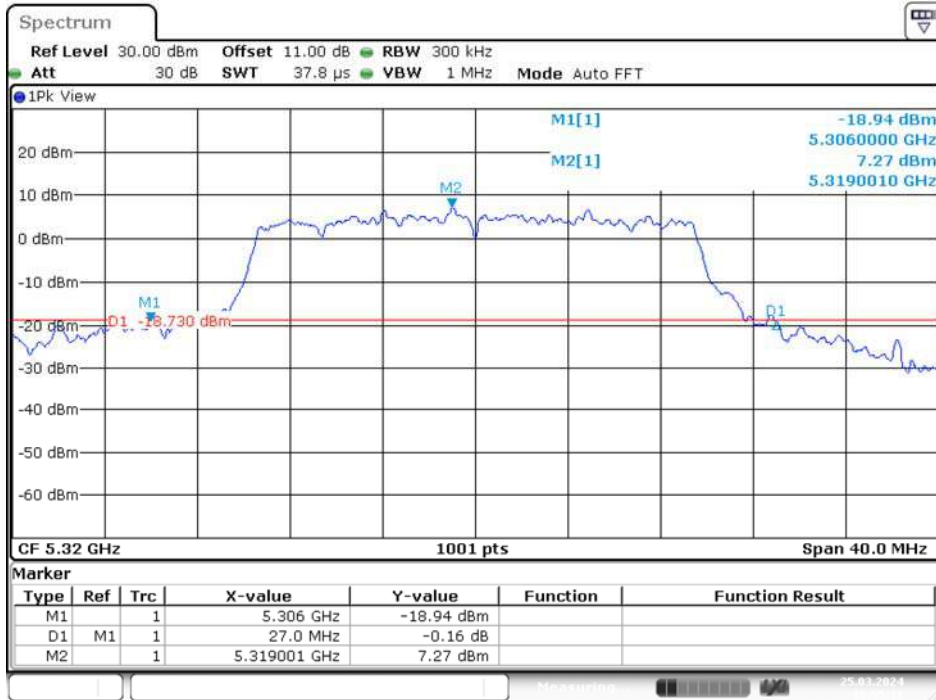
Date: 25.MAR.2024 16:38:19

5300MHz



Date: 25.MAR.2024 16:48:13

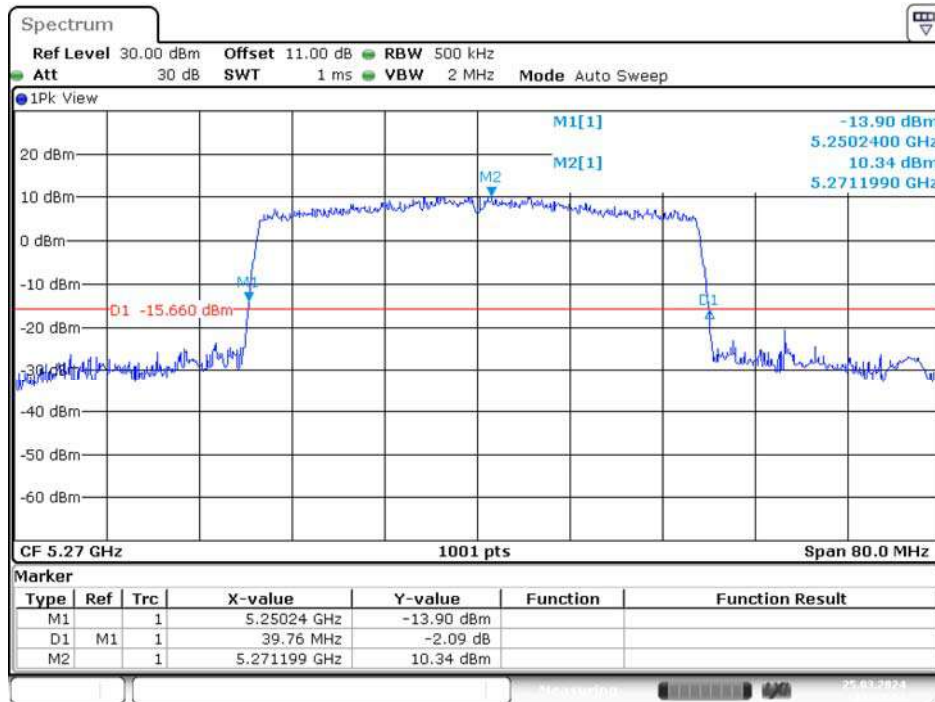
5320MHz



Date: 25.MAR.2024 16:55:11

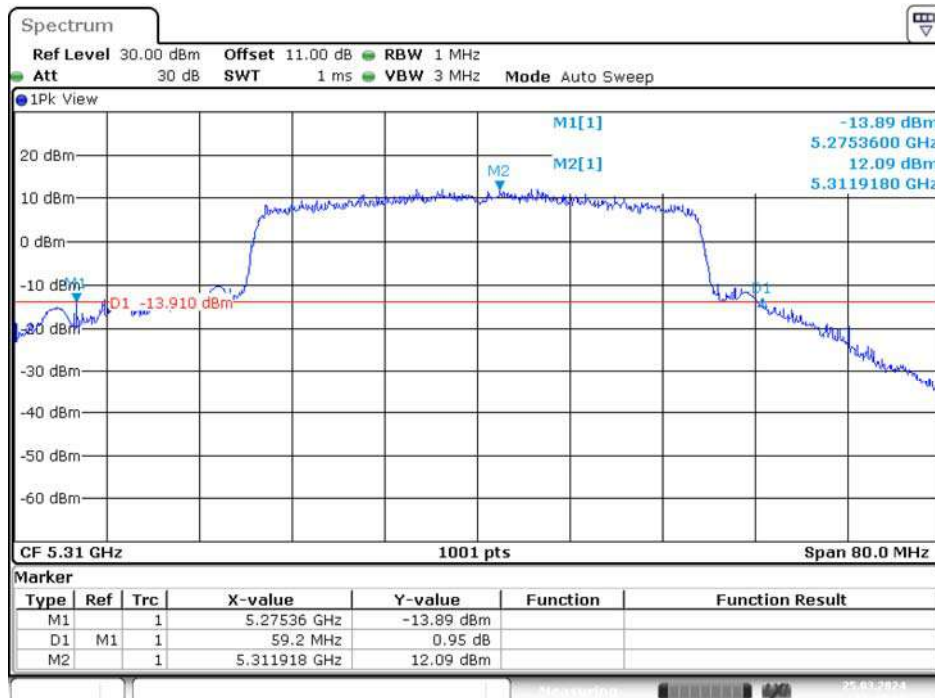
IEEE 802.11ax HE40 Mode / 5250 ~ 5350MHz

5270MHz



Date: 25.MAR.2024 17:32:01

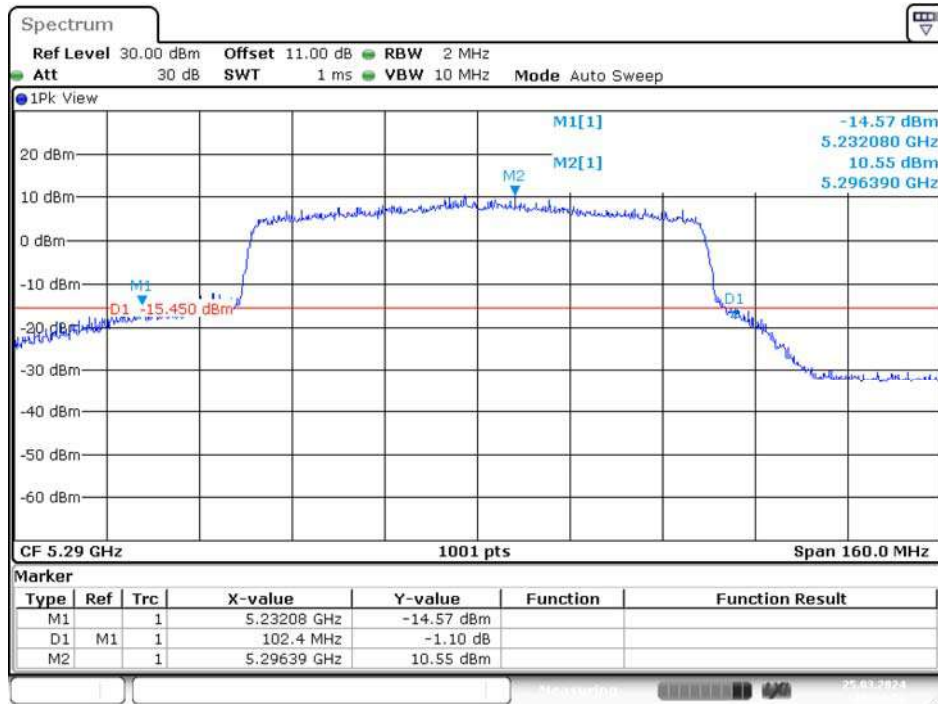
5310MHz



Date: 25.MAR.2024 17:42:43

IEEE 802.11ax HE80 Mode / 5250 ~ 5350MHz

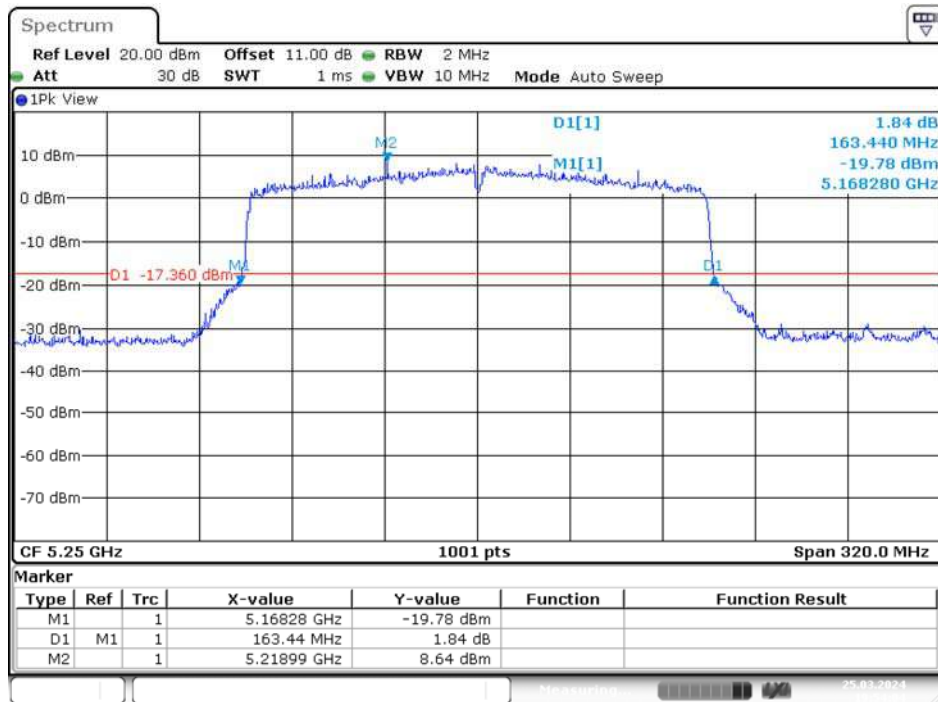
5290MHz



Date: 25.MAR.2024 19:14:51

IEEE 802.11ax HE160 Mode / 5250 ~ 5350MHz

5250MHz

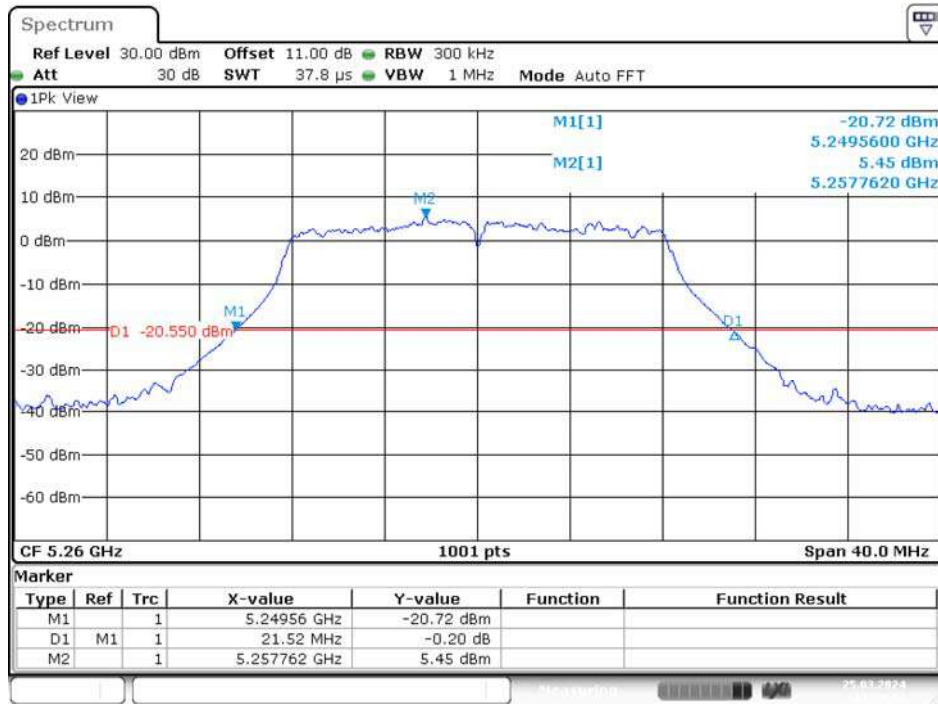


Date: 25.MAR.2024 19:54:05

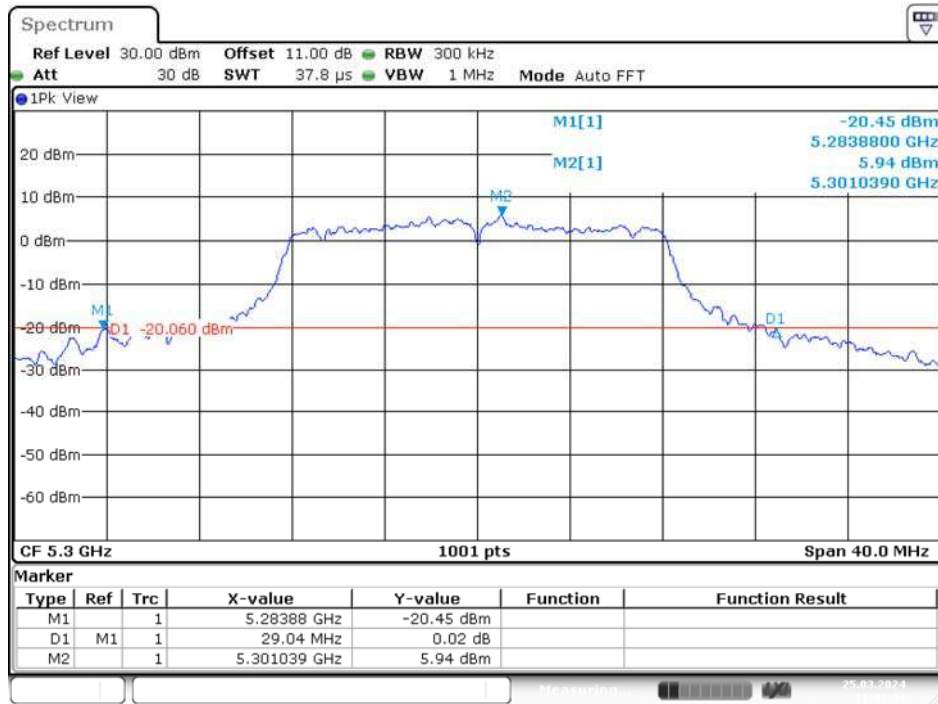
Chain 2

IEEE 802.11a Mode / 5250 ~ 5350MHz

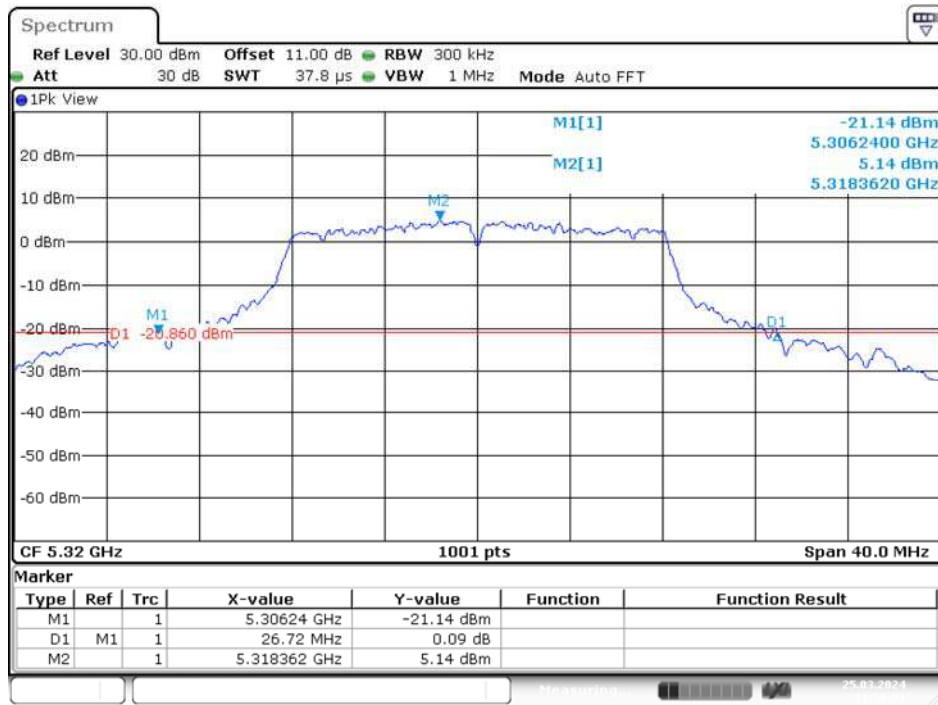
5260MHz



5300MHz



5320MHz



Date: 25.MAR.2024 11:56:01

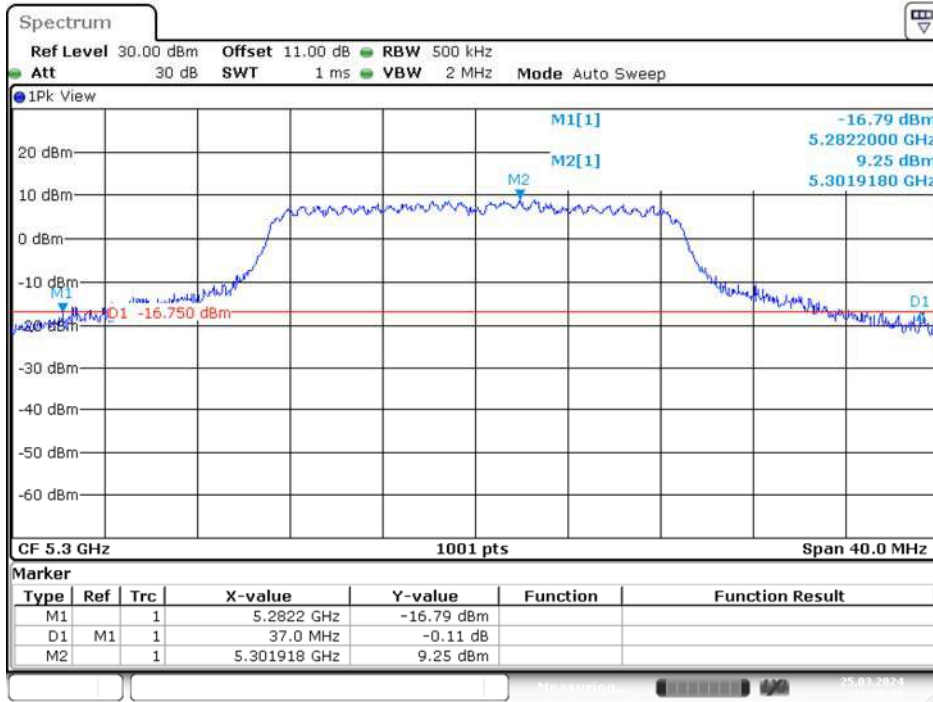
IEEE 802.11ac VHT20 Mode / 5250 ~ 5350MHz

5260MHz



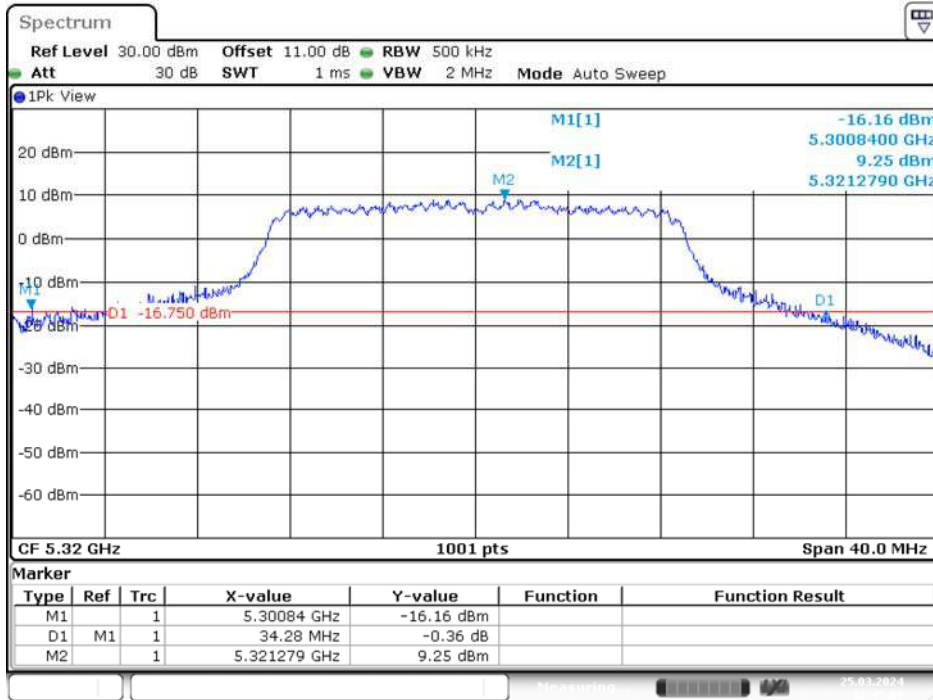
Date: 25.MAR.2024 12:25:57

5300MHz



Date: 25.MAR.2024 12:38:41

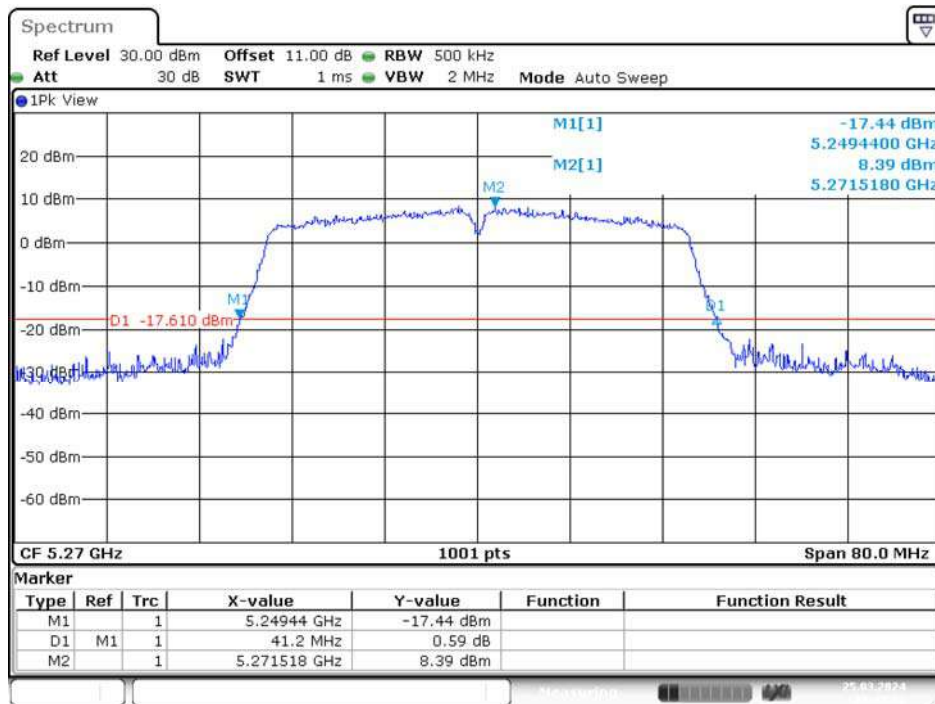
5320MHz



Date: 25.MAR.2024 12:45:10

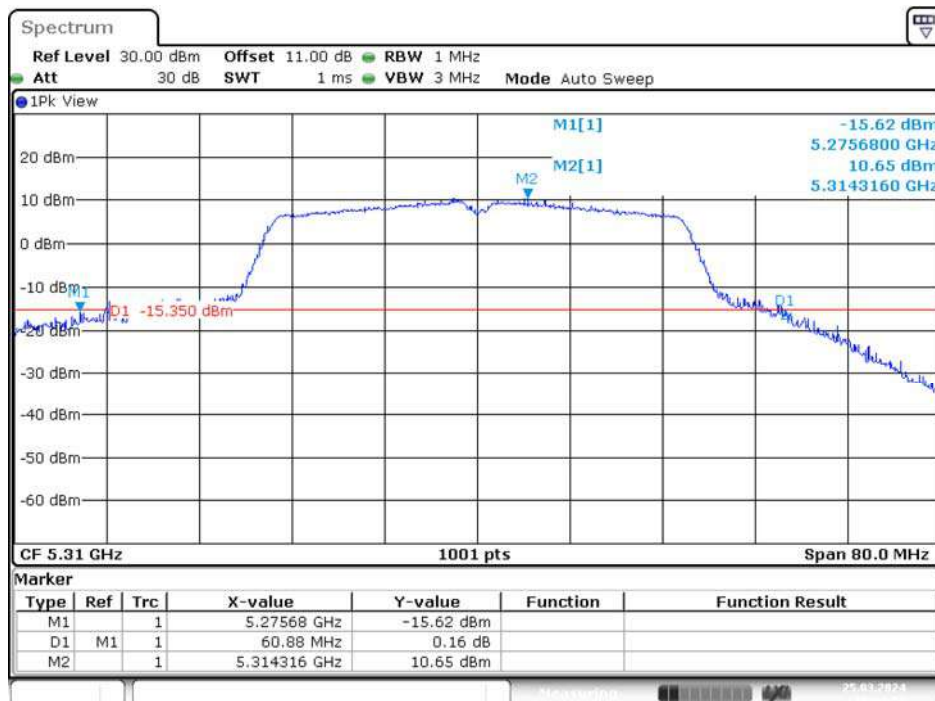
IEEE 802.11ac VHT40 Mode / 5250 ~ 5350MHz

5270MHz



Date: 25.MAR.2024 14:43:32

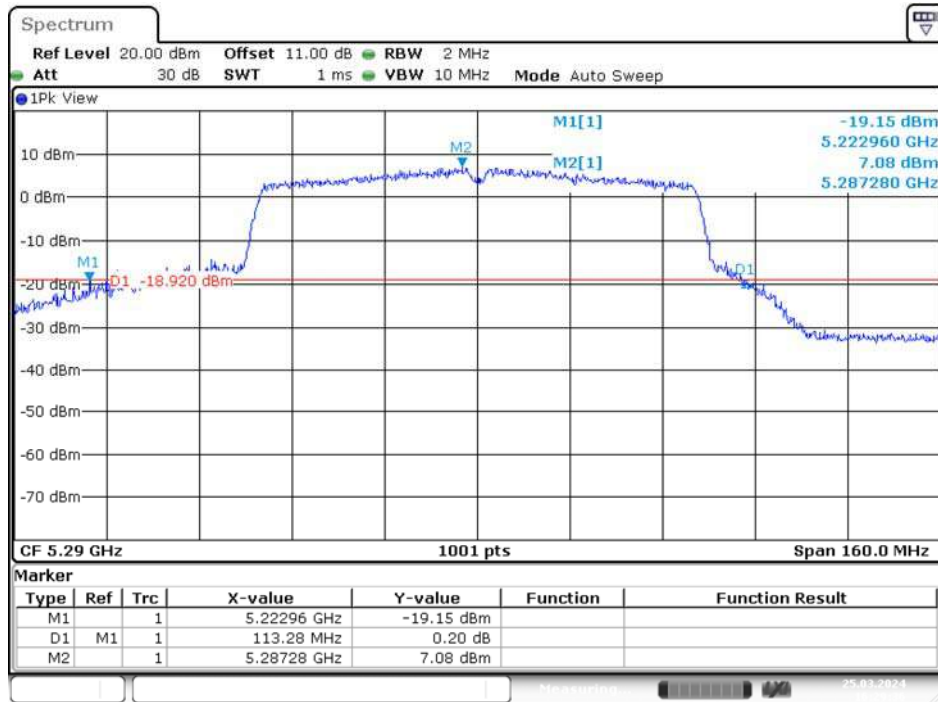
5310MHz



Date: 25.MAR.2024 16:04:55

IEEE 802.11ac VHT80 Mode / 5250 ~ 5350MHz

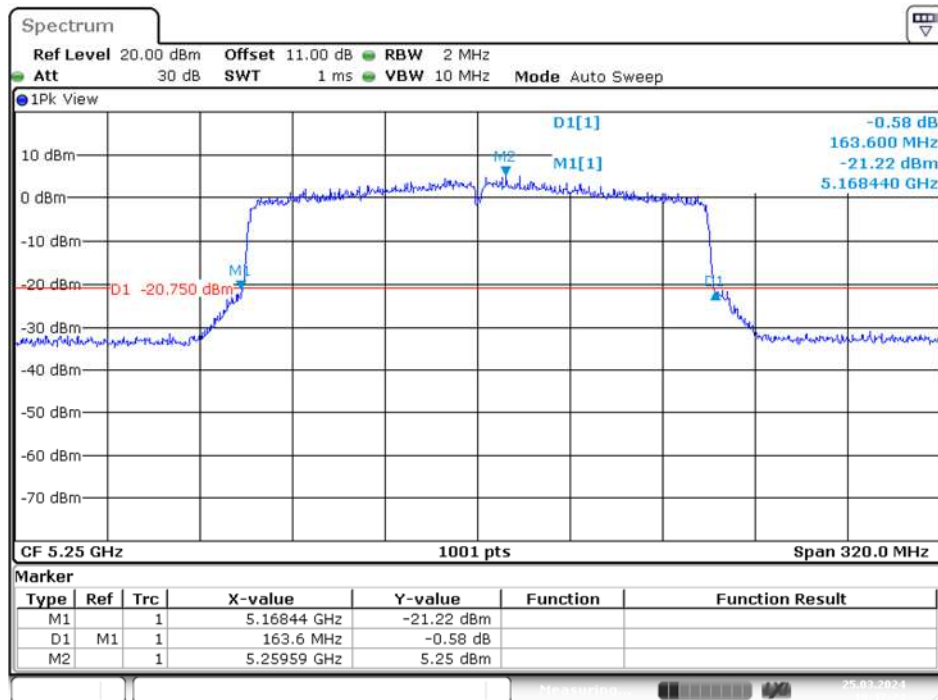
5290MHz



Date: 25.MAR.2024 16:29:36

IEEE 802.11ac VHT160 Mode / 5250 ~ 5350MHz

5250MHz



Date: 25.MAR.2024 19:47:24