

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)

Report No.: RFBBQZ-WTW-P26050063-4

FCC ID: PY325300650

Product: Orbi 11BE WiFi 7 Tri-band Router & Orbi 11BE WiFi 7 Tri-band Satellite
(refer to item 3.1 for more details)

Brand: NETGEAR

Model No.: RBE781

Series Model: RBE780 (refer to item 3.1 for more details)

Received Date: 2026/5/5

Test Date: 2026/6/25 ~ 2026/7/25

Issued Date: 2026/8/18

Applicant and Manufacturer: NETGEAR, INC.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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FCC Registration / 788550 / TW0003

Designation Number:

Approved by:

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2026/8/18

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Prepared by : Vera Huang / Specialist

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Release Control Record

Issue No.	Description	Date Issued
RFBBQZ-WTW-P26050063-4	Original Release	2026/8/18

1 Certificate

Product: Orbi 11BE WiFi 7 Tri-band Router & Orbi 11BE WiFi 7 Tri-band Satellite
(refer to item 3.1 for more details)

Brand: NETGEAR

Test Model: RBE781

Series Model: RBE780 (refer to item 3.1 for more details)

Sample Status: Engineering sample

Applicant and Manufacturer: NETGEAR, INC.

Test Date: 2026/6/25 ~ 2026/7/25

Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)

Measurement procedure: ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024
KDB 987594 D02 U-NII 6 GHz EMC Measurement v03
KDB 789033 D02 General UNII Test Procedure New Rules v02r01
KDB 662911 D01 Multiple Transmitter Output v02r01

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
Clause	Test Item	Result	Remark
15.407(a)(5) 15.407(a)(6)	Maximum RF Output Power	Pass	Meet the requirement of limit.
15.407(a)(5) 15.407(a)(6)	Maximum Power Spectral Density	Pass	Meet the requirement of limit.
15.407(a)(11)	Emission Bandwidth	Pass	Meet the requirement of limit.
---	Occupied Bandwidth	-	Reference only.
15.407(b)(9)	AC Power Conducted Emissions	Pass	Minimum passing margin is -17.26 dB at 0.25000 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -7.28 dB at 739.93 MHz
15.407(b)(6) 15.407(b)(10)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -0.1 dB at 7125.00 MHz and 7250.00 MHz
15.407(b)(7)	In-Band Emission Mask	Pass	Meet the requirement of limit.
15.407(d)(6)	Contention-based Protocol	Pass	Meet the requirement of limit.
15.203	Antenna Requirement	Pass	Antenna connector is ipex(MHF) not a standard connector.

Notes:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. Per TCBC notice, FCC allows 99% BW measurements for Wi-Fi 320MHz BW mode instead of Emission Bandwidth.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Specification	Expanded Uncertainty (k=2) (±)
Occupied Bandwidth	-	72 Hz
AC Power Conducted Emissions	9 kHz ~ 30 MHz	3.23 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	3.59 dB
	30 MHz ~ 1 GHz	3.64 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	2.29 dB
	18 GHz ~ 40 GHz	2.29 dB

The other instruments specified are routine verified to remain within the calibrated levels, no measurement uncertainty is required to be calculated.

2.2 Supplementary Information

There is not any deviation from the test standards for the test method, and no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	Orbi 11BE WiFi 7 Tri-band Router & Orbi 11BE WiFi 7 Tri-band Satellite
Brand	NETGEAR
Test Model	RBE781
Series Model	RBE780
Model Difference	Refer to note
Status of EUT	Engineering sample
Power Supply Rating	12Vdc from Adapter
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 1024QAM for OFDMA in 11ax mode 4096QAM for OFDMA in 11be mode
Modulation Technology	OFDM, OFDMA
Transfer Rate	Up to 5764.7 Mbps
Operating Frequency	6.115 GHz ~ 6.415 GHz 6.425 GHz ~ 6.525 GHz 6.535 GHz ~ 6.865 GHz 6.875 GHz ~ 7.115 GHz
Number of Channel	802.11a, 802.11ax (HE20), 802.11be (EHT20): 51 802.11ax (HE40), 802.11be (EHT40): 29 802.11ax (HE80), 802.11be (EHT80): 14 802.11ax (HE160), 802.11be (EHT160): 7 802.11be (EHT320): 6
Partial RU Mode	Not support
Channel Puncturing	Not support
Output Power	6.115 GHz ~ 6.415 GHz: EIRP: 946.237 mW (29.76 dBm) 6.425 GHz ~ 6.525 GHz: EIRP: 912.011 mW (29.60 dBm) 6.535 GHz ~ 6.865 GHz: EIRP: 841.395 mW (29.25 dBm) 6.875 GHz ~ 7.115 GHz: EIRP: 837.529 mW (29.23 dBm)
Equipment Class	6ID: 15E 6 GHz Low-power indoor access point 6PP: 15E 6 GHz Subordinate indoor device

Note:

1. All models are listed as below.

Product Description	Model	Difference
Orbi 11BE WiFi 7 Tri-band Router	RBE781	DFS mode: Master mode Four 2.5G Ethernet ports (1WAN+3LAN)
Orbi 11BE WiFi 7 Tri-band Satellite	RBE780	DFS mode: Mesh mode Two 2.5G Ethernet ports (2LAN)

2. The EUT uses following accessories.

AC Adapter 1	Brand	NETGEAR
	Model	ADS-40FPC-12 12030E
	Part Number	332-11771-01
	AC Input	100-240V 50/60Hz 1.0A
	DC Output	12.0V 2.5A 30.0W
	DC Output Cable	1.81M / 0 core
	Manufacturer	Vietnam Honor High Tech Company Limited
AC Adapter 2	Brand	NETGEAR
	Model	2AED030FC
	Part Number	332-11774-01
	AC Input	100-240V 50/60Hz 1.0A
	DC Output	12.0V 2.5A 30.0W
	DC Output Cable	1.83M / 0 core
	Manufacturer	CWT
RJ45 Cable	Brand	NETGEAR
	Model	-
	Part Number	-
	Signal Line	1.97m non-shielded and without core

3. There are WLAN (2.4 GHz, 5 GHz, 6 GHz), Bluetooth, and Threads technology used for the EUT.

4. Since 6ID and 6PP have used the same RF design, the indoor AP and subordinate mode share the same RF parameters.

5. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna No.	RF Chain No.	Brand	Model	Antenna Gain (dBi)	Frequency range	Antenna Type	Connector Type
1	0	Galtronics	02129140-08099-2	2.68	2.4~2.4835GHz	Monopole	ipex(MHF)
				2.49	5.15~5.25GHz		
				3.13	5.25~5.35GHz		
				4.25	5.47~5.725GHz		
				4.58	5.725~5.85GHz		
				4.58	5.850~5.895GHz		
2	1	Galtronics	02129140-08099-1	3.4	2.4~2.4835GHz	Monopole	ipex(MHF)
				3.77	5.15~5.25GHz		
				3.84	5.25~5.35GHz		
				3.72	5.47~5.725GHz		
				3.78	5.725~5.85GHz		
				4.12	5.850~5.895GHz		
3	0	Galtronics	02129475-08099-7	3.85	5.925~6.425GHz	Monopole	ipex(MHF)
				4.63	6.425~6.525GHz		
				4.63	6.525~6.875GHz		
				3.67	6.875~7.125GHz		
4	1	Galtronics	02129475-08099-4	5.84	5.925~6.425GHz	Monopole	ipex(MHF)
				5.84	6.425~6.525GHz		
				5.79	6.525~6.875GHz		
				4.05	6.875~7.125GHz		
5	2	Galtronics	02129475-08099-6	3.42	5.925~6.425GHz	Monopole	ipex(MHF)
				3.54	6.425~6.525GHz		
				4.45	6.525~6.875GHz		
				3.67	6.875~7.125GHz		
6	3	Galtronics	02129475-08099-8	4.4	5.925~6.425GHz	Monopole	ipex(MHF)
				4.87	6.425~6.525GHz		
				5.03	6.525~6.875GHz		
				6	6.875~7.125GHz		
7	0	Galtronics	02102073-08099-3	2.43	2.4~2.4835GHz	Alford Loop	ipex(MHF)

Frequency range (GHz)	Directional Gain (dBi)
2.4~2.4835	4.91
5.15 ~ 5.25	5.39
5.25 ~ 5.35	5.9
5.47 ~ 5.725	5.49
5.725 ~ 5.85	5.75
5.850 ~ 5.895	5.75

For CBP related test requirements, select the minimum antenna gain value as the representative test. The table below shows the applicable minimum gain values for each operating frequency band.

Frequency Band	Minimum Antenna Gain (dBi)
6GHz UNII-5 to UNII-8	2.22

Frequency range (GHz)	Directional Gain (dBi)			
	Antenna 3 + 5	Antenna 3 + 6	Antenna 4 + 5	Antenna 4 + 6
5.925~6.425	4.7	5.76	4.84	5.12
6.425~6.525	4.95	5.8	4.77	5.98
6.525~6.875	5.41	5.8	4.48	5.98
6.875~7.125	4.51	5.1	3.93	5.68

* The detailed antenna information, please refer to RBE781, RBE780 Directional Gain Measurement data.

2. The EUT incorporates a MIMO function:

6 GHz Band		
Modulation Mode	CDD Mode	Beamforming Mode
802.11a	Nss1	Not Support
802.11ax (HE20)	Nss1 / Nss2	Nss1 / Nss2
802.11ax (HE40)	Nss1 / Nss2	Nss1 / Nss2
802.11ax (HE80)	Nss1 / Nss2	Nss1 / Nss2
802.11ax (HE160)	Nss1 / Nss2	Nss1 / Nss2
802.11be (EHT20)	Nss1 / Nss2	Nss1 / Nss2
802.11be (EHT40)	Nss1 / Nss2	Nss1 / Nss2
802.11be (EHT80)	Nss1 / Nss2	Nss1 / Nss2
802.11be (EHT160)	Nss1 / Nss2	Nss1 / Nss2
802.11be (EHT320)	Nss1 / Nss2	Nss1 / Nss2

Note:

1. All of modulation mode support beamforming function except 802.11a modulation mode.
2. The EUT support Beamforming and CDD mode, therefore both mode were investigated and the worst case scenario was identified. The worst case data were presented in test report.
3. After investigation, 802.11be mode 20 MHz (40 MHz, 80 MHz, 160 MHz) represents the worst mode in the report since the power setting is the same or higher than 802.11ax mode 20 MHz (40 MHz, 80 MHz, 160 MHz), and the modulation type and bandwidth are all similar.

3.3 Channel List

U-NII-5:

16 channels are provided for 802.11a, 802.11ax (HE20), 802.11be (EHT20):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
33	6115 MHz	37	6135 MHz	41	6155 MHz	45	6175 MHz
49	6195 MHz	53	6215 MHz	57	6235 MHz	61	6255 MHz
65	6275 MHz	69	6295 MHz	73	6315 MHz	77	6335 MHz
81	6355 MHz	85	6375 MHz	89	6395 MHz	93	6415 MHz

12 channels are provided for 802.11ax (HE40), 802.11be (EHT40):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
3	5965 MHz	11	6005 MHz	19	6045 MHz	27	6085 MHz
35	6125 MHz	43	6165 MHz	51	6205 MHz	59	6245 MHz
67	6285 MHz	75	6325 MHz	83	6365 MHz	91	6405 MHz

6 channels are provided for 802.11ax (HE80), 802.11be (EHT80):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
7	5985 MHz	23	6065 MHz	39	6145 MHz	55	6225 MHz
71	6305 MHz	87	6385 MHz				

3 channels are provided for 802.11ax (HE160), 802.11be (EHT160):

Channel	Frequency	Channel	Frequency	Channel	Frequency
15	6025 MHz	47	6185 MHz	79	6345 MHz

2 channels are provided for 802.11be (EHT320):

Channel	Frequency	Channel	Frequency
31	6105 MHz	63	6265 MHz

U-NII-6:

5 channels are provided for 802.11a, 802.11ax (HE20), 802.11be (EHT20):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
97	6435 MHz	101	6455 MHz	105	6475 MHz	109	6495 MHz
113	6515 MHz						

3 channels are provided for 802.11ax (HE40), 802.11be (EHT40):

Channel	Frequency	Channel	Frequency	Channel	Frequency
99	6445 MHz	107	6485 MHz	*115	6525 MHz

1 channel is provided for 802.11ax (HE80), 802.11be (EHT80):

Channel	Frequency
103	6465 MHz

1 channel is provided for 802.11ax (HE160), 802.11be (EHT160):

Channel	Frequency
*111	6505 MHz

1 channel is provided for 802.11be (EHT320):

Channel	Frequency
*95	6425 MHz

U-NII-7:

17 channels are provided for 802.11a, 802.11ax (HE20), 802.11be (EHT20):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
117	6535 MHz	121	6555 MHz	125	6575 MHz	129	6595 MHz
133	6615 MHz	137	6635 MHz	141	6655 MHz	145	6675 MHz
149	6695 MHz	153	6715 MHz	157	6735 MHz	161	6755 MHz
165	6775 MHz	169	6795 MHz	173	6815 MHz	177	6835 MHz
181	6855 MHz						

8 channels are provided for 802.11ax (HE40), 802.11be (EHT40):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
123	6565 MHz	131	6605 MHz	139	6645 MHz	147	6685 MHz
155	6725 MHz	163	6765 MHz	171	6805 MHz	179	6845 MHz

5 channels are provided for 802.11ax (HE80), 802.11be (EHT80):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
*119	6545 MHz	135	6625 MHz	151	6705 MHz	167	6785 MHz
*183	6865 MHz						

2 channels are provided for 802.11ax (HE160), 802.11be (EHT160):

Channel	Frequency	Channel	Frequency
143	6665 MHz	*175	6825 MHz

2 channels are provided for 802.11be (EHT320):

Channel	Frequency	Channel	Frequency
*127	6585 MHz	*159	6745 MHz

U-NII-8:

13 channels are provided for 802.11a, 802.11ax (HE20), 802.11be (EHT20):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
*185	6875 MHz	189	6895 MHz	193	6915 MHz	197	6935 MHz
201	6955 MHz	205	6975 MHz	209	6995 MHz	213	7015 MHz
217	7035 MHz	221	7055 MHz	225	7075 MHz	229	7095 MHz
233	7115 MHz						

6 channels are provided for 802.11ax (HE40), 802.11be (EHT40):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
*187	6885 MHz	195	6925 MHz	203	6965 MHz	211	7005 MHz
219	7045 MHz	227	7085 MHz				

2 channels are provided for 802.11ax (HE80), 802.11be (EHT80):

Channel	Frequency	Channel	Frequency
199	6945 MHz	215	7025 MHz

1 channel is provided for 802.11ax (HE160), 802.11be (EHT160):

Channel	Frequency
207	6985 MHz

1 channel is provided for 802.11be (EHT320):

Channel	Frequency
*191	6905 MHz

Note: * mean these are straddle channels.

3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. EUT has the following AC Adapter: AC Adapter 1 / AC Adapter 2. Pre-scan these AC Adapters and find the worst case as a representative test condition. 2. EUT has the following 6GHz antenna configuration: (Antenna 3+5), (Antenna 3+6), (Antenna 4+5), (Antenna 4+6), Pre-scan these configurations and find the worst case as a representative test condition. 3. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
Worst Case:	1. Adapter Worst Condition: AC Adapter 1 2. Antenna Worst Configuration for all tests except Contention-based Protocol: Antenna 4+6 3. Antenna Worst Configuration for Contention-based Protocol test: Antenna 3+5

The EUT is designed to be positioned on the Y-axis only.

Following channel(s) was (were) selected for the final test as listed below:

Test Item	EUT Configure Mode	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
Maximum RF Output Power	A	802.11a	CDD	33, 61, 93, 97, 105, 113, 117, 149, 181, 185, 209, 229, 233	BPSK	6Mb/s
		802.11be (EHT20)	Beamforming(2T1S) / Beamforming(2T2S)	33, 61, 93, 97, 105, 113, 117, 149, 181, 185, 209, 229, 233	BPSK	MCS0
		802.11be (EHT40)	Beamforming(2T1S) / Beamforming(2T2S)	35, 59, 91, 99, 107, 115, 123, 155, 179, 187, 211, 227	BPSK	MCS0
		802.11be (EHT80)	Beamforming(2T1S) / Beamforming(2T2S)	39, 55, 87, 103, 119, 135, 151, 167, 183, 199, 215	BPSK	MCS0
		802.11be (EHT160)	Beamforming(2T1S) / Beamforming(2T2S)	47, 79, 111, 143, 175, 207	BPSK	MCS0
		802.11be (EHT320)	Beamforming(2T1S) / Beamforming(2T2S)	63, 95, 127, 159, 191	BPSK	MCS0
Maximum Power Spectral Density	A	802.11a	CDD	33, 61, 93, 97, 105, 113, 117, 149, 181, 185, 209, 229, 233	BPSK	6Mb/s
		802.11be (EHT20)	Beamforming(2T1S) / Beamforming(2T2S)	33, 61, 93, 97, 105, 113, 117, 149, 181, 185, 209, 229, 233	BPSK	MCS0
		802.11be (EHT40)	Beamforming(2T1S) / Beamforming(2T2S)	35, 59, 91, 99, 107, 115, 123, 155, 179, 187, 211, 227	BPSK	MCS0
		802.11be (EHT80)	Beamforming(2T1S) / Beamforming(2T2S)	39, 55, 87, 103, 119, 135, 151, 167, 183, 199, 215	BPSK	MCS0
		802.11be (EHT160)	Beamforming(2T1S) / Beamforming(2T2S)	47, 79, 111, 143, 175, 207	BPSK	MCS0
		802.11be (EHT320)	Beamforming(2T1S) / Beamforming(2T2S)	63, 95, 127, 159, 191	BPSK	MCS0
Emission Bandwidth	A	802.11a	CDD	33, 61, 93, 97, 105, 113, 117, 149, 181, 185, 209, 229, 233	BPSK	6Mb/s
		802.11be (EHT20)	Beamforming(2T1S) / Beamforming(2T2S)	33, 61, 93, 97, 105, 113, 117, 149, 181, 185, 209, 229, 233	BPSK	MCS0
		802.11be (EHT40)	Beamforming(2T1S) / Beamforming(2T2S)	35, 59, 91, 99, 107, 115, 123, 155, 179, 187, 211, 227	BPSK	MCS0
		802.11be (EHT80)	Beamforming(2T1S) / Beamforming(2T2S)	39, 55, 87, 103, 119, 135, 151, 167, 183, 199, 215	BPSK	MCS0
		802.11be (EHT160)	Beamforming(2T1S) / Beamforming(2T2S)	47, 79, 111, 143, 175, 207	BPSK	MCS0
		802.11be (EHT320)	Beamforming(2T1S) / Beamforming(2T2S)	63, 95, 127, 159, 191	BPSK	MCS0

Test Item	EUT Configure Mode	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
In-Band Emission Mask	A	802.11a	CDD	33, 61, 93, 97, 105, 113, 117, 149, 181, 185, 209, 229, 233	BPSK	6Mb/s
		802.11be (EHT20)	Beamforming(2T1S) / Beamforming(2T2S)	33, 61, 93, 97, 105, 113, 117, 149, 181, 185, 209, 229, 233	BPSK	MCS0
		802.11be (EHT40)	Beamforming(2T1S) / Beamforming(2T2S)	35, 59, 91, 99, 107, 115, 123, 155, 179, 187, 211, 227	BPSK	MCS0
		802.11be (EHT80)	Beamforming(2T1S) / Beamforming(2T2S)	39, 55, 87, 103, 119, 135, 151, 167, 183, 199, 215	BPSK	MCS0
		802.11be (EHT160)	Beamforming(2T1S) / Beamforming(2T2S)	47, 79, 111, 143, 175, 207	BPSK	MCS0
		802.11be (EHT320)	Beamforming(2T1S) / Beamforming(2T2S)	63, 95, 127, 159, 191	BPSK	MCS0
Occupied Bandwidth	A	802.11a	CDD	33, 61, 93, 97, 105, 113, 117, 149, 181, 185, 209, 229, 233	BPSK	6Mb/s
		802.11be (EHT20)	Beamforming(2T1S) / Beamforming(2T2S)	33, 61, 93, 97, 105, 113, 117, 149, 181, 185, 209, 229, 233	BPSK	MCS0
		802.11be (EHT40)	Beamforming(2T1S) / Beamforming(2T2S)	35, 59, 91, 99, 107, 115, 123, 155, 179, 187, 211, 227	BPSK	MCS0
		802.11be (EHT80)	Beamforming(2T1S) / Beamforming(2T2S)	39, 55, 87, 103, 119, 135, 151, 167, 183, 199, 215	BPSK	MCS0
		802.11be (EHT160)	Beamforming(2T1S) / Beamforming(2T2S)	47, 79, 111, 143, 175, 207	BPSK	MCS0
		802.11be (EHT320)	Beamforming(2T1S) / Beamforming(2T2S)	63, 95, 127, 159, 191	BPSK	MCS0
Contention-based Protocol	A	802.11be (EHT20)	-	45, 105, 161, 209	BPSK	MCS0
		802.11be (EHT320)	-	63, 95, 159, 191	BPSK	MCS0
AC Power Conducted Emissions	A, B	802.11be (EHT320)	Beamforming(2T2S)	63	BPSK	MCS0
Unwanted Emissions below 1 GHz	A, B	802.11be (EHT320)	Beamforming(2T2S)	63	BPSK	MCS0
Unwanted Emissions above 1 GHz	A	802.11a	CDD	33, 61, 93, 97, 105, 113, 117, 149, 181, 185, 209, 229, 233	BPSK	6Mb/s
		802.11be (EHT20)	Beamforming(2T1S) / Beamforming(2T2S)	33, 61, 93, 97, 105, 113, 117, 149, 181, 185, 209, 229, 233	BPSK	MCS0
		802.11be (EHT40)	Beamforming(2T1S) / Beamforming(2T2S)	35, 59, 91, 99, 107, 115, 123, 155, 179, 187, 211, 227	BPSK	MCS0
		802.11be (EHT80)	Beamforming(2T1S) / Beamforming(2T2S)	39, 55, 87, 103, 119, 135, 151, 167, 183, 199, 215	BPSK	MCS0
		802.11be (EHT160)	Beamforming(2T1S) / Beamforming(2T2S)	47, 79, 111, 143, 175, 207	BPSK	MCS0
		802.11be (EHT320)	Beamforming(2T1S) / Beamforming(2T2S)	63, 95, 127, 159, 191	BPSK	MCS0
EUT Configure Mode:	A	EUT model: RBE781				
	B	EUT model: RBE780				

3.5 Duty Cycle of Test Signal

CDD

802.11a: Duty cycle = 1.98 ms / 1.99 ms x 100% = 99.5%

2T1S

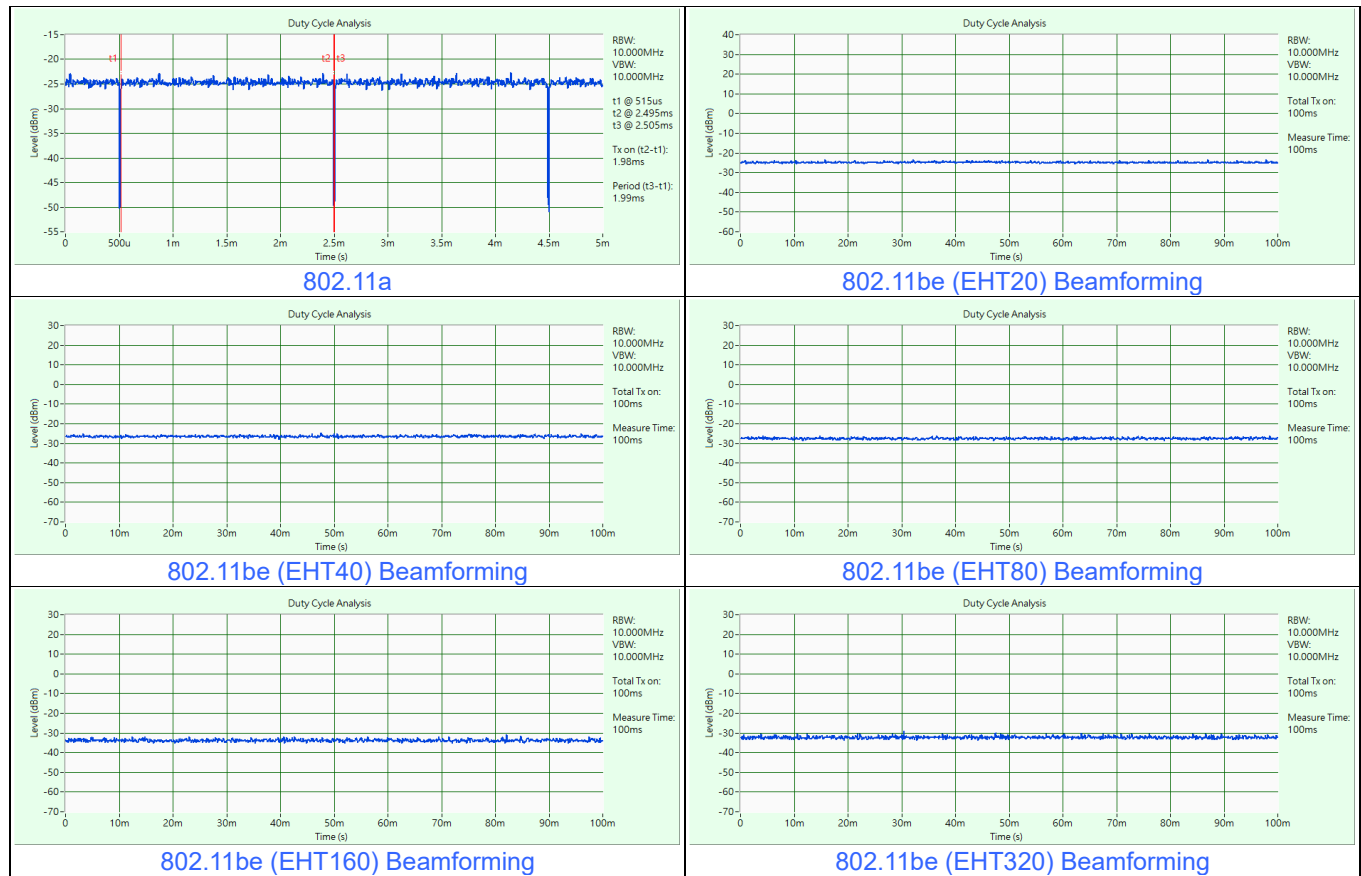
802.11be (EHT20) Beamforming: Duty cycle = 100 ms / 100 ms x 100% = 100.0%

802.11be (EHT40) Beamforming: Duty cycle = 100 ms / 100 ms x 100% = 100.0%

802.11be (EHT80) Beamforming: Duty cycle = 100 ms / 100 ms x 100% = 100.0%

802.11be (EHT160) Beamforming: Duty cycle = 100 ms / 100 ms x 100% = 100.0%

802.11be (EHT320) Beamforming: Duty cycle = 100 ms / 100 ms x 100% = 100.0%



2T2S

802.11be (EHT20): Duty cycle = 100 ms / 100 ms x 100% = 100.0%

802.11be (EHT40): Duty cycle = 100 ms / 100 ms x 100% = 100.0%

802.11be (EHT80): Duty cycle = 100 ms / 100 ms x 100% = 100.0%

802.11be (EHT160): Duty cycle = 100 ms / 100 ms x 100% = 100.0%

802.11be (EHT320): Duty cycle = 100 ms / 100 ms x 100% = 100.0%

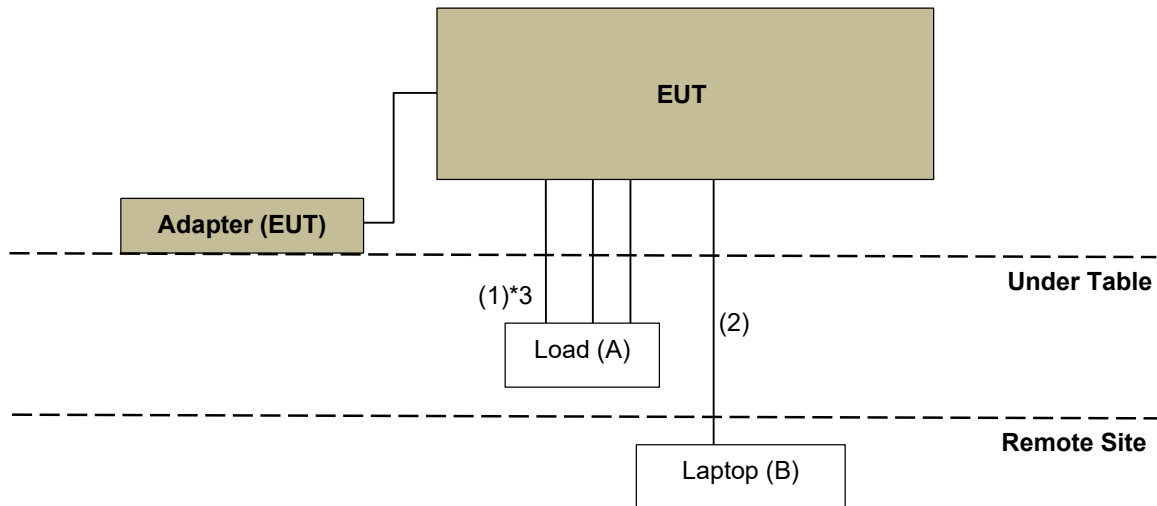


3.6 Test Program Used and Operation Descriptions

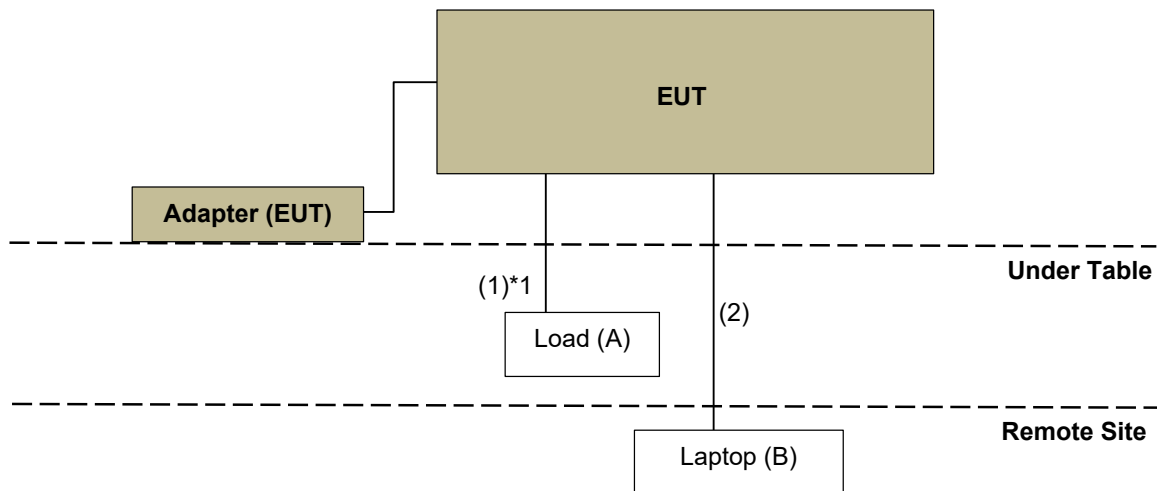
Controlling software QSPR Version 5.0-00202 has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices

Mode A



Mode B



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Load	N/A	N/A	N/A	N/A	Provided by Lab
B	Laptop	DELL	E5430	2RL3YW1	N/A	Provided by Lab (for RF Setup)

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	LAN Cable	3	1.5	No	0	Provided by Lab
2	RJ45 Cable	1	1.97	No	0	Accessory of EUT (for RF Setup)

4 Test Instruments

The calibration interval of the all test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.1 Maximum RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower inn-co GmbH	MA 4000	010303	N/A	N/A
Boresight antenna tower fixture BV	BAF-02	5	N/A	N/A
EMI Test Receiver R&S	ESR3	102782	2025/12/8	2026/12/7
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-408	2025/11/9	2026/11/8
	BBHA 9170	9170-480	2025/11/9	2026/11/8
		BBHA9170241	2025/10/28	2026/10/27
		BBHA9170243	2025/11/9	2026/11/8
Preamplifier EMCI	EMC 184045	980116	2025/9/21	2026/9/20
Preamplifier Keysight	83017A	MY53270295	2026/4/18	2027/4/17
RF Coaxial Cable EMCI	EMC102-KM-KM-600	150928	2026/6/26	2027/6/25
	EMC102-KM-KM-3000	150929	2026/6/26	2027/6/25
RF Coaxial Cable HUBER+SUHNER	EMC104-SM-SM-10000	Cable-CH1-01(RFC-SMS-100-SMS-120+RFC-SMS-100-SMS-4)	2026/4/18	2027/4/17
	SUCOFLEX 104	Cable-CH4-03(250724)	2026/4/18	2027/4/17
Signal & Spectrum Analyzer R&S	FSW43	101582	2026/5/2	2027/5/1
Software BV ADT	ADT_Radiated_ V7.7.1.1.1	N/A	N/A	N/A
Turn Table BV ADT	TT100	TT93021705	N/A	N/A
Turn Table Controller BV ADT	SC100	SC93021705	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 3(Hwaya).
2. Tested Date: 2026/7/23

4.2 Maximum Power Spectral Density

Refer to section 4.1 to get the tested date and information of the instruments.

4.3 Emission Bandwidth

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2026/5/21	2027/5/20
Signal & Spectrum Analyzer R&S	FSV3044	101505	2026/6/15	2027/6/14
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in HY - Oven room(Hwaya).
2. Tested Date: 2026/7/23

4.4 In-Band Emission Mask

Refer to section 4.3 to get the tested date and information of the instruments.

4.5 Occupied Bandwidth

Refer to section 4.3 to get the tested date and information of the instruments.

4.6 Contention-based Protocol

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
MXG Vector Signal Generator Keysight	N5182B	MY57301272	2026/4/8	2027/4/7
	N5182BX07(N5182BU)	MY59360204	2026/4/8	2027/4/7
Power Divider Woken	0120A02058001M	DCMD33WIK3	2026/4/18	2027/4/17
		DCMD33WIK7	2026/4/18	2027/4/17
Signal & Spectrum Analyzer R&S	FSW26	102023	2025/11/14	2026/11/13

Notes:

1. The test was performed in HY - Adaptivity room(Hwaya).
2. Tested Date: 2026/7/3

4.7 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance	E1-011279	04	2025/12/4	2026/12/3
	E1-011280	05	2025/12/4	2026/12/3
	E1-011311	09	2025/12/4	2026/12/3
DC LISN Schwarzbeck	NNBM 8126G	8126G-069	2025/11/3	2026/11/2
Diode Pulse Limiter Schwarzbeck	VTSD 9561 F-N	01445	2026/4/18	2027/4/17
EMI Test Receiver R&S	ESCI	100613	2025/11/27	2026/11/26
Extension Power Line EMCI	EMCI-EXP-EU-US	023	2026/3/6	2027/3/5
LISN R&S	ENV216	101826	2026/3/6	2027/3/5
	ESH3-Z5	100311	2025/8/28	2026/8/27
RF Coaxial Cable Woken	5D-FB	Cable-cond1-01	2026/1/3	2027/1/2
Software BVADT	BVADT_Conc_ V7.4.1.0	N/A	N/A	N/A
V-LISN Schwarzbeck	NNBL 8226-2	8226-142	2025/8/27	2026/8/26

Notes:

1. The test was performed in HY - Conduction 1.
2. Tested Date: 2026/7/9

4.8 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower inn-co GmbH	MA 4000	010303	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-155	2025/9/16	2026/9/15
EMI Test Receiver R&S	ESR3	102782	2025/12/8	2026/12/7
Loop Antenna TESEQ	HLA 6121	45745	2025/9/1	2026/8/31
Preamplifier Agilent	8447D	2944A10631	2026/4/18	2027/4/17
RF Coaxial Cable Woken	8D-FB	Cable-CH4-01	2026/6/26	2027/6/25
Signal & Spectrum Analyzer R&S	FSW43	101582	2026/5/2	2027/5/1
Software BV ADT	ADT_Radiated_ V7.7.1.1.1	N/A	N/A	N/A
Turn Table BV ADT	TT100	TT93021705	N/A	N/A
Turn Table Controller BV ADT	SC100	SC93021705	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 3(Hwaya).
2. Tested Date: 2026/7/9

4.9 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower inn-co GmbH	MA 4000	010303	N/A	N/A
Boresight antenna tower fixture BV	BAF-02	5	N/A	N/A
EMI Test Receiver R&S	ESR3	102782	2025/12/8	2026/12/7
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-408	2025/11/9	2026/11/8
	BBHA 9170	9170-480	2025/11/9	2026/11/8
		BBHA9170241	2025/10/28	2026/10/27
		BBHA9170243	2025/11/9	2026/11/8
Preamplifier EMCI	EMC 184045	980116	2025/9/21	2026/9/20
Preamplifier Keysight	83017A	MY53270295	2026/4/18	2027/4/17
RF Coaxial Cable EMCI	EMC102-KM-KM-600	150928	2025/6/30 2026/6/26	2026/6/29 2027/6/25
	EMC102-KM-KM-3000	150929	2025/6/30 2026/6/26	2026/6/29 2027/6/25
RF Coaxial Cable HUBER+SUHNER	EMC104-SM-SM-10000	Cable-CH1-01(RFC-SMS-100- SMS-120+RFC-SMS-100-SMS-4)	2026/4/18	2027/4/17
	SUCOFLEX 104	Cable-CH4-03(250724)	2026/4/18	2027/4/17
Signal & Spectrum Analyzer R&S	FSW43	101582	2026/5/2	2027/5/1
Software BV ADT	ADT_Radiated_ V7.7.1.1.1	N/A	N/A	N/A
Turn Table BV ADT	TT100	TT93021705	N/A	N/A
Turn Table Controller BV ADT	SC100	SC93021705	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 3(Hwaya).
2. Tested Date: 2026/6/25 ~ 2026/7/25

5 Limits of Test Items

5.1 Maximum RF Output Power

Operation Band	Equipment Class	Limit
		Maximum Average Power
U-NII-5 U-NII-6 U-NII-7 U-NII-8	6ID: 15E 6 GHz Low-power indoor access point 6PP: 15E 6 GHz Subordinate indoor device	EIRP 30 dBm

Per KDB 662911 Method of conducted output power measurement on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

Array Gain = $5 \log(N_{ANT}/N_{SS})$ dB or 3 dB, whichever is less for 20-MHz channel widths with $N_{ANT} \geq 5$.

For power measurements on all other devices: Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB.

5.2 Maximum Power Spectral Density

Operation Band	Equipment Class	Limit
		Maximum Power Density
U-NII-5 U-NII-6 U-NII-7 U-NII-8	6ID: 15E 6 GHz Low-power indoor access point 6PP: 15E 6 GHz Subordinate indoor device	EIRP 5 dBm/MHz

5.3 Emission Bandwidth

The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 MHz.

5.4 In-Band Emission Mask

Test Item	Frequencies (MHz)	(X) dBc ^{*1}
Emission Mask	At 1 MHz outside of channel edge	20
	At one channel bandwidth from the channel center ^{*2}	28
	At one- and one-half times the channel bandwidth away from channel center ^{*3}	40
	More than one- and one-half times the channel bandwidth	40

^{*1} : The power spectral density must be suppressed by "x" dB

^{*2} : At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression,

^{*3} : At frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression.

5.5 Occupied Bandwidth

The results are for reference only.

5.6 Contention-based Protocol

Unlicensed indoor low-power devices must detect co-channel radio frequency power that is at least -62 dBm (The threshold is referenced to a 0 dBi antenna gain.) or lower. Additionally, indoor low-power devices must detect co-channel energy with 90% or greater certainty.

5.7 AC Power Conducted Emissions

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

Notes:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

5.8 Unwanted Emissions below 1 GHz

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

Frequencies (MHz)	Field Strength (microvolts/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

Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).

5.9 Unwanted Emissions above 1 GHz

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
Above 960	500	3

Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

Limits of unwanted emission out of the restricted bands

Frequencies (MHz)	EIRP Limit	Equivalent Field Strength at 3 m
5925 MHz > F > 7125 MHz	Peak: -7 (dBm/MHz)	88.2 (dBuV/m)
	Average: -27 (dBm/MHz)	68.2 (dBuV/m)

Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

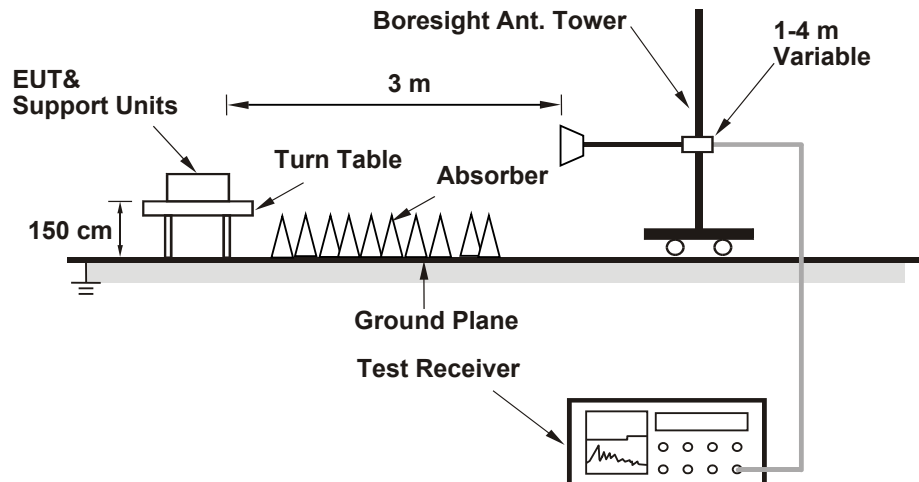
$$E = \frac{1000000 \sqrt{30P}}{3} \mu\text{V/m, where } P \text{ is the eirp (Watts).}$$

6 Test Arrangements

6.1 Maximum RF Output Power

6.1.1 Test Setup

Radiated Measurement Method



6.1.2 Test Procedure

Radiated Measurement Method

- The EUT was placed on the top of a rotating table 1.5 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- Perform a field strength measurement and record the worse read value, is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP level.
- Follow ANSI C63.10 section 12.7.3, $EIRP \text{ Value (dBm)} = \text{Field Strength Value (dBuV / m)} + \text{Correction Factor @ 3 m}$.
- $\text{Correction Factor (dB) @ 3 m} = 20\log(D) - 104.77 = -95.23 \text{ dB}$; where D is the measurement distance @ 3 m.

Spectrum analyzer setting as below:

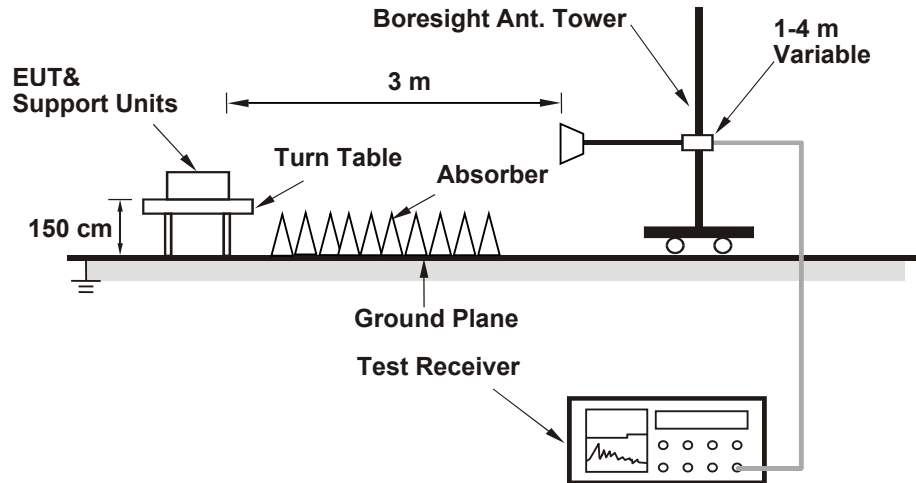
Method SA-1

- Set span to encompass the entire 99% OBW of the signal.
- Set RBW = 1 MHz, Set VBW ≥ 3 MHz, Detector = RMS.
- Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Record the max value.

Note: When measuring power, use compute power by integrating the spectrum across the 99% OBW of the signal using the instrument's band-power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band-power function, then sum the spectrum levels (in power units) at 1 MHz intervals extending across the 99% OBW of the spectrum.

6.2 Maximum Power Spectral Density

6.2.1 Test Setup



6.2.2 Test Procedure

- The EUT was placed on the top of a rotating table 1.5 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- Perform a field strength measurement and record the worse read value, is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP level.
- Follow ANSI C63.10 section 12.7.3, $EIRP \text{ Value (dBm)} = \text{Field Strength Value (dBuV/m)} + \text{Correction Factor @ 3 m}$.
- $\text{Correction Factor (dB) @ 3 m} = 20\log(D) - 104.77$; where D is the measurement distance @3 m = -95.23 dB

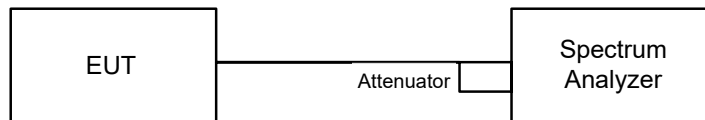
Spectrum analyzer setting as below:

Method SA-1

- Set span to encompass the entire 99% OBW of the signal.
- Set RBW = 1 MHz, Set VBW $\geq$ 3 MHz, Detector = RMS.
- Sweep points $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Record the max value

6.3 Emission Bandwidth

6.3.1 Test Setup



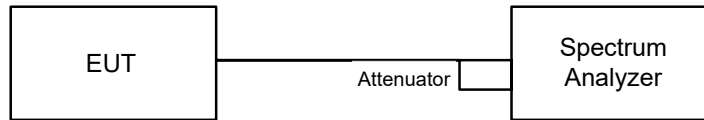
Note: The correction factor has already been compensated by the instrument.

6.3.2 Test Procedure

- a. Set RBW = shall be in the range of 1% to 5% 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 peak of the emission. Compare this with the RBW setting of the instrument. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is in the range of 1% to 5%.

6.4 In-Band Emission Mask

6.4.1 Test Setup



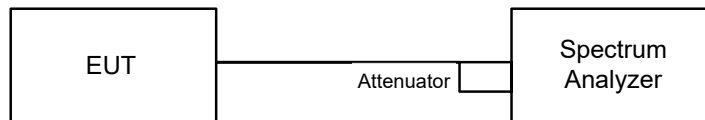
Note: The correction factor has already been compensated by the instrument.

6.4.2 Test Procedure

- a. Connect output of the antenna port to a spectrum analyzer and adjust appropriate attenuation.
- b. Measure the 26 dB EBW using the test procedure 12.5.2 of ANSI C63.10-2020. (This will be used to determine the channel edge.)
- c. Measure the power spectral density (for emissions mask reference) using the following procedure:
 - a) Set the span to encompass the entire 26 dB EBW of the signal.
 - b) Set RBW = same RBW used for 26 dB EBW measurement.
 - c) Set VBW $\geq 3 \times$ RBW
 - d) Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$.
 - e) Sweep time = auto.
 - f) Detector = RMS (i.e., power averaging)
 - g) Trace average at least 100 traces in power averaging (rms) mode.
 - h) Use the peak search function on the instrument to find the peak of the spectrum.
- d. Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows:
 - a) Suppressed by 20 dB at 1 MHz outside of the channel edge. (The channel edge is defined as the 26-dB point on either side of the carrier center frequency.)
 - b) Suppressed by 28 dB at one channel bandwidth from the channel center.
 - c) Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.
- e. Adjust the span to encompass the entire mask as necessary and clear trace.
- f. Trace average at least 100 traces in power averaging (rms) mode.
- g. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask.

6.5 Occupied Bandwidth

6.5.1 Test Setup



Note: The correction factor has already been compensated by the instrument.

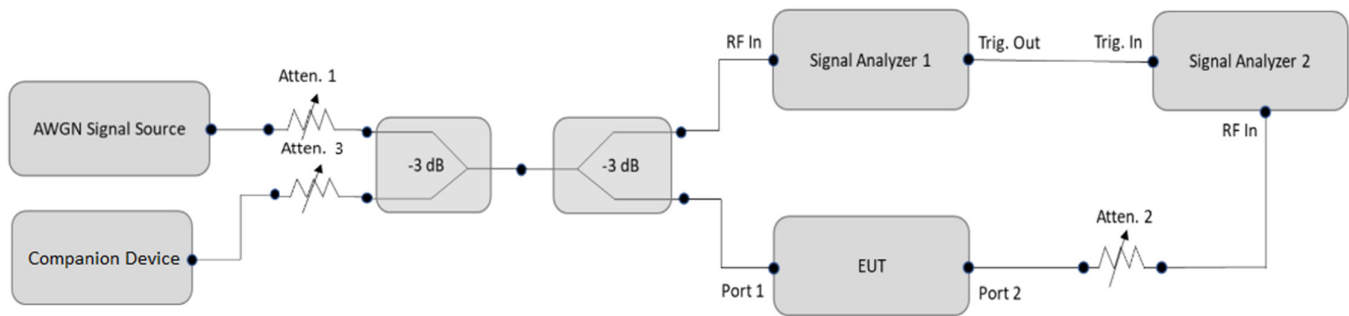
6.5.2 Test Procedure

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

- a. The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b. The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be at least three times the RBW, unless otherwise specified by the applicable requirement.
- c. Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (OBW/RBW)]$ below the reference level.
- 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 and report the measured bandwidth.

6.6 Contention-based Protocol

6.6.1 Test Setup



6.6.2 Test Procedure

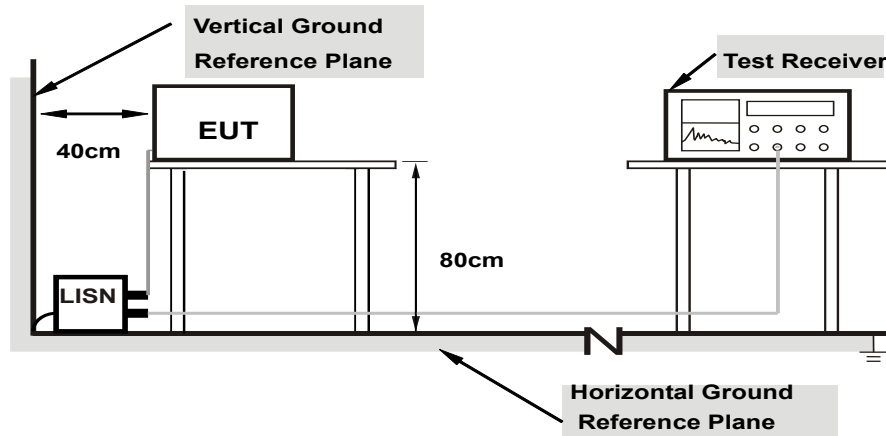
- Set the signal analyzer center frequency to the nominal EUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT. Connect the output port of the EUT to the signal analyzer 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
- Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters (set as following section 4.7.5 EUT operating condition).
- Determine number of times detection threshold test as following table,

If	Number of Tests	Placement of Incumbent Transmission
$BW_{EUT} \leq BW_{Inc}$	Once	Same as EUT transmission
$BW_{Inc} < BW_{EUT} \leq 2x BW_{Inc}$	Once	Contained within BW_{EUT}
$2x BW_{Inc} < BW_{EUT} \leq 4x BW_{Inc}$	Twice. (Incumbent transmission is contained within BW_{EUT})	Closely to the lower edge and upper edge of the EUT Channel
$BW_{EUT} > 4x BW_{Inc}$	Three times	Closely to the lower edge ,in the middle and upper edge of the EUT Channel

- The power measurement of AWGN signal refers to method SA-1 in section 12.4.2.2 of ANSI C63.10-2020.
- Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use step c table to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
- Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT.
- Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.
- Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
- (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
- Refer to step c table to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step d, choose a different center frequency for the AWGN signal and repeat the process.

6.7 AC Power Conducted Emissions

6.7.1 Test Setup



Note: 1.Support units were connected to second LISN.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.7.2 Test Procedure

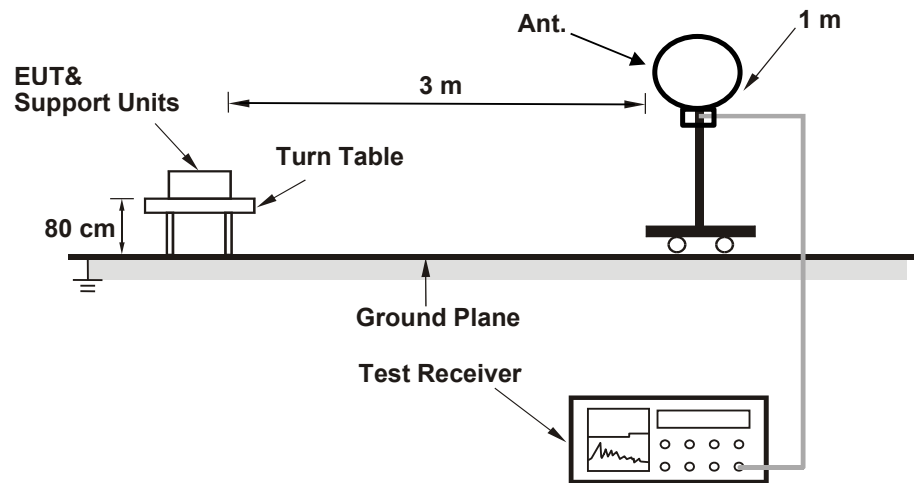
- Exploratory ac power-line conducted emission measurements: The EUT shall be operated on the mid channel and in the mode with highest output power unless the fundamental operates in the AC power-line emission test range then the EUT shall be operated in the range of typical modes of operation.
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50 uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

Note: The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz-30 MHz.

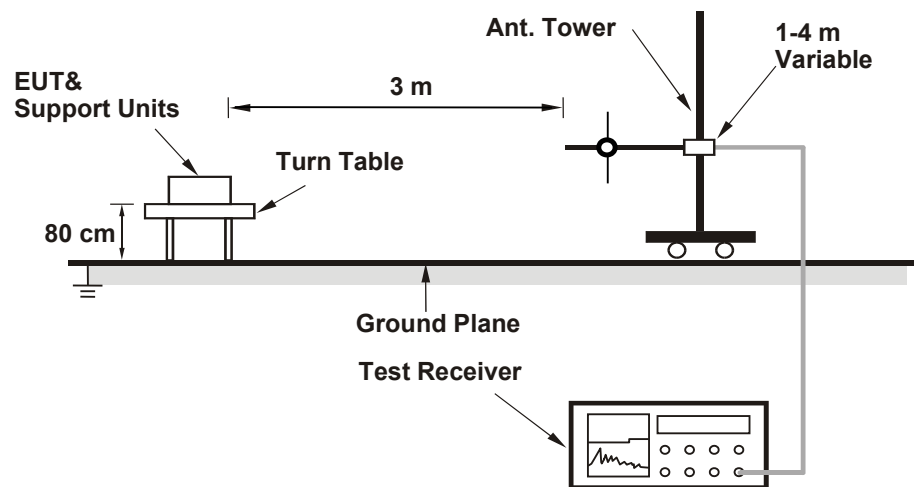
6.8 Unwanted Emissions below 1 GHz

6.8.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.8.2 Test Procedure

For Radiated emission below 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode (however, peak detector measurements may be used to determine compliance with QP requirements), except for the frequency band (9 kHz to 90 kHz and 110 kHz to 490 kHz) set to average detect function and peak detect function.

Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 200 Hz at frequency below 150 kHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz or 10 kHz at frequency (150 kHz to 30 MHz).
3. All modes of operation were investigated and the worst-case emissions are reported.

For Radiated emission above 30 MHz

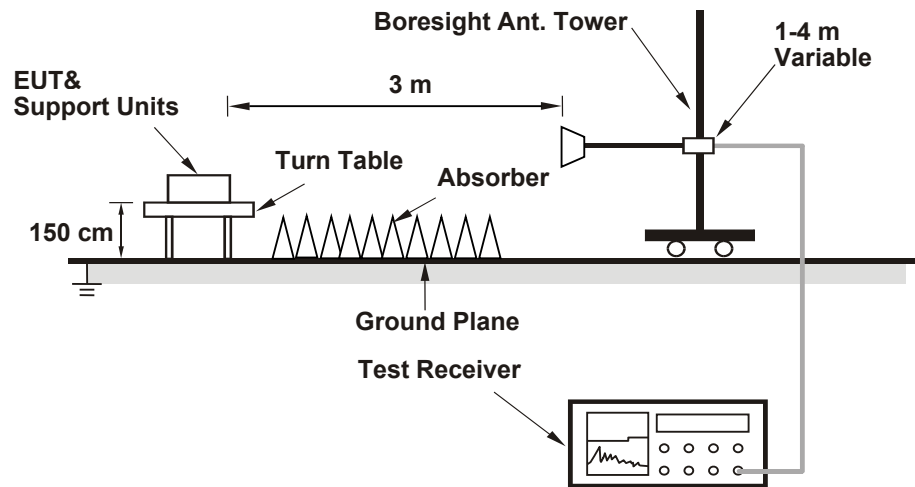
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-peak(QP) detect function, Average(AV) detect function, Peak(PK) detect function and specified bandwidth with maximum hold mode when the test frequencies less than or equal to 1 GHz.

Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1 GHz (however, peak detector measurements may be used to determine compliance with QP requirements).
2. All modes of operation were investigated and the worst-case emissions are reported.

6.9 Unwanted Emissions above 1 GHz

6.9.1 Test Setup



For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.9.2 Test Procedure

- The EUT was placed on the top of a rotating table 1.5 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Notes:

- The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) and Average detection (AV) at frequency above 1 GHz.
- For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10 Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1 GHz.
- All modes of operation were investigated and the worst-case emissions are reported.

7 Test Results of Test Item

7.1 Maximum RF Output Power

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Wayne Lin
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CDD

802.11a

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
33	6115	111.62	-95.23	43.551	16.39	30	Pass
61	6255	111.49	-95.23	42.267	16.26	30	Pass
93	6415	111.46	-95.23	41.976	16.23	30	Pass
97	6435	109.90	-95.23	29.309	14.67	30	Pass
105	6475	109.90	-95.23	29.309	14.67	30	Pass
113	6515	110.04	-95.23	30.269	14.81	30	Pass
117	6535	110.67	-95.23	34.995	15.44	30	Pass
149	6695	110.84	-95.23	36.392	15.61	30	Pass
181	6855	110.72	-95.23	35.4	15.49	30	Pass
185	6875	110.83	-95.23	36.308	15.60	30	Pass
209	6995	110.33	-95.23	32.359	15.10	30	Pass
229	7095	110.21	-95.23	31.477	14.98	30	Pass
233	7115	108.77	-95.23	22.594	13.54	30	Pass

2T1S

802.11be (EHT20) Beamforming

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
33	6115	114.68	-95.23	88.105	19.45	30	Pass
61	6255	114.88	-95.23	92.257	19.65	30	Pass
93	6415	114.98	-95.23	94.406	19.75	30	Pass
97	6435	113.40	-95.23	65.615	18.17	30	Pass
105	6475	113.67	-95.23	69.823	18.44	30	Pass
113	6515	113.80	-95.23	71.945	18.57	30	Pass
117	6535	114.29	-95.23	80.538	19.06	30	Pass
149	6695	114.19	-95.23	78.705	18.96	30	Pass
181	6855	114.40	-95.23	82.604	19.17	30	Pass
185	6875	114.25	-95.23	79.799	19.02	30	Pass
209	6995	113.44	-95.23	66.222	18.21	30	Pass
229	7095	113.60	-95.23	68.707	18.37	30	Pass
233	7115	100.44	-95.23	3.319	5.21	30	Pass

802.11be (EHT40) Beamforming

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
35	6125	117.81	-95.23	181.134	22.58	30	Pass
59	6245	118.54	-95.23	214.289	23.31	30	Pass
91	6405	118.14	-95.23	195.434	22.91	30	Pass
99	6445	115.71	-95.23	111.686	20.48	30	Pass
107	6485	115.71	-95.23	111.686	20.48	30	Pass
115	6525	116.56	-95.23	135.831	21.33	30	Pass
123	6565	116.22	-95.23	125.603	20.99	30	Pass
155	6725	116.42	-95.23	131.522	21.19	30	Pass
179	6845	116.60	-95.23	137.088	21.37	30	Pass
187	6885	116.54	-95.23	135.207	21.31	30	Pass
211	7005	116.51	-95.23	134.276	21.28	30	Pass
227	7085	116.32	-95.23	128.529	21.09	30	Pass

802.11be (EHT80) Beamforming

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
39	6145	120.65	-95.23	348.337	25.42	30	Pass
55	6225	121.28	-95.23	402.717	26.05	30	Pass
87	6385	121.07	-95.23	383.707	25.84	30	Pass
103	6465	118.83	-95.23	229.087	23.60	30	Pass
119	6545	119.27	-95.23	253.513	24.04	30	Pass
135	6625	120.07	-95.23	304.789	24.84	30	Pass
151	6705	120.05	-95.23	303.389	24.82	30	Pass
167	6785	119.72	-95.23	281.19	24.49	30	Pass
183	6865	120.24	-95.23	316.957	25.01	30	Pass
199	6945	120.26	-95.23	318.42	25.03	30	Pass
215	7025	119.14	-95.23	246.037	23.91	30	Pass

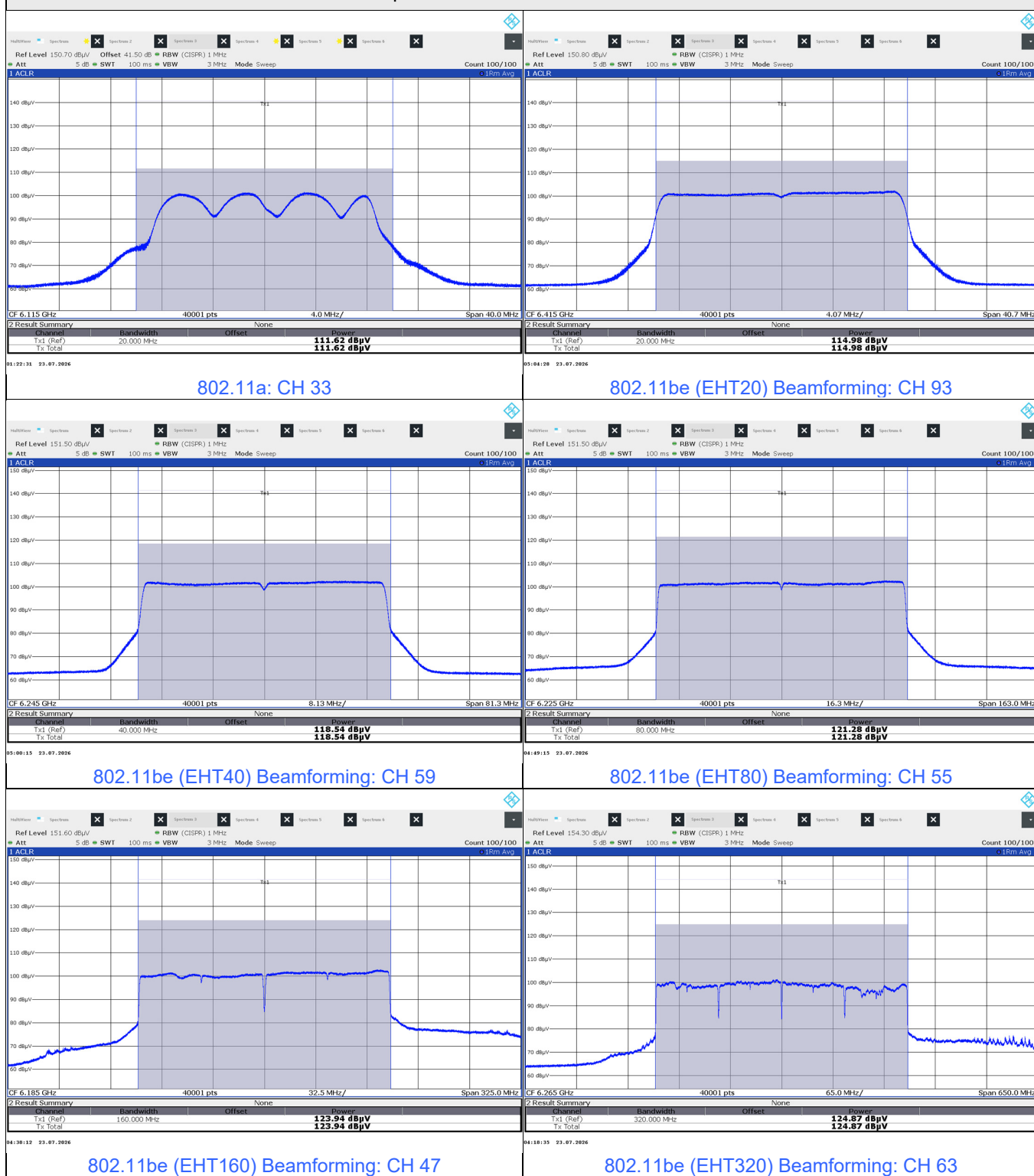
802.11be (EHT160) Beamforming

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
47	6185	123.94	-95.23	743.019	28.71	30	Pass
79	6345	123.34	-95.23	647.143	28.11	30	Pass
111	6505	122.48	-95.23	530.884	27.25	30	Pass
143	6665	122.47	-95.23	529.663	27.24	30	Pass
175	6825	122.14	-95.23	490.908	26.91	30	Pass
207	6985	122.64	-95.23	550.808	27.41	30	Pass

802.11be (EHT320) Beamforming

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
63	6265	124.87	-95.23	920.45	29.64	30	Pass
95	6425	124.80	-95.23	905.733	29.57	30	Pass
127	6585	124.34	-95.23	814.704	29.11	30	Pass
159	6745	124.35	-95.23	816.582	29.12	30	Pass
191	6905	124.46	-95.23	837.529	29.23	30	Pass

Spectrum Plot of Maximum Value



2T2S

802.11be (EHT20) Beamforming

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
33	6115	114.89	-95.23	92.47	19.66	30	Pass
61	6255	115.20	-95.23	99.312	19.97	30	Pass
93	6415	115.22	-95.23	99.77	19.99	30	Pass
97	6435	113.74	-95.23	70.958	18.51	30	Pass
105	6475	113.78	-95.23	71.614	18.55	30	Pass
113	6515	113.91	-95.23	73.79	18.68	30	Pass
117	6535	114.57	-95.23	85.901	19.34	30	Pass
149	6695	114.35	-95.23	81.658	19.12	30	Pass
181	6855	114.62	-95.23	86.896	19.39	30	Pass
185	6875	114.64	-95.23	87.297	19.41	30	Pass
209	6995	113.91	-95.23	73.79	18.68	30	Pass
229	7095	113.98	-95.23	74.989	18.75	30	Pass
233	7115	98.22	-95.23	1.991	2.99	30	Pass

802.11be (EHT40) Beamforming

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
35	6125	118.04	-95.23	190.985	22.81	30	Pass
59	6245	118.72	-95.23	223.357	23.49	30	Pass
91	6405	118.49	-95.23	211.836	23.26	30	Pass
99	6445	116.17	-95.23	124.165	20.94	30	Pass
107	6485	116.37	-95.23	130.017	21.14	30	Pass
115	6525	116.16	-95.23	123.88	20.93	30	Pass
123	6565	115.72	-95.23	111.944	20.49	30	Pass
155	6725	116.68	-95.23	139.637	21.45	30	Pass
179	6845	116.73	-95.23	141.254	21.50	30	Pass
187	6885	116.92	-95.23	147.571	21.69	30	Pass
211	7005	116.55	-95.23	135.519	21.32	30	Pass
227	7085	116.62	-95.23	137.721	21.39	30	Pass

802.11be (EHT80) Beamforming

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
39	6145	121.00	-95.23	377.572	25.77	30	Pass
55	6225	121.32	-95.23	406.443	26.09	30	Pass
87	6385	121.23	-95.23	398.107	26.00	30	Pass
103	6465	118.74	-95.23	224.388	23.51	30	Pass
119	6545	118.91	-95.23	233.346	23.68	30	Pass
135	6625	120.25	-95.23	317.687	25.02	30	Pass
151	6705	120.44	-95.23	331.894	25.21	30	Pass
167	6785	120.17	-95.23	311.889	24.94	30	Pass
183	6865	120.53	-95.23	338.844	25.30	30	Pass
199	6945	120.46	-95.23	333.426	25.23	30	Pass
215	7025	119.39	-95.23	260.615	24.16	30	Pass

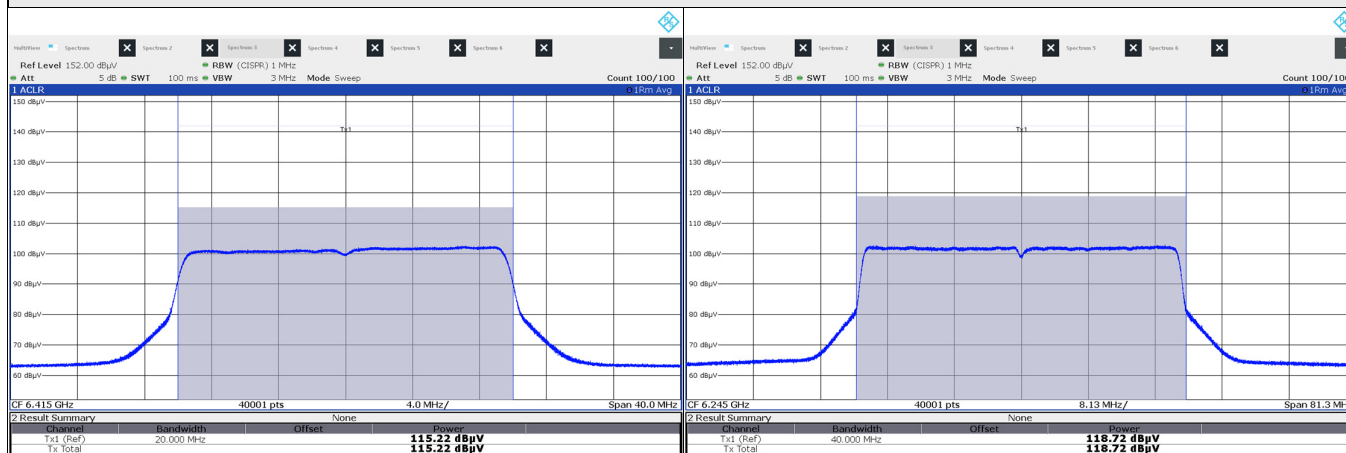
802.11be (EHT160) Beamforming

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
47	6185	124.49	-95.23	843.335	29.26	30	Pass
79	6345	124.03	-95.23	758.578	28.80	30	Pass
111	6505	122.21	-95.23	498.884	26.98	30	Pass
143	6665	122.59	-95.23	544.503	27.36	30	Pass
175	6825	122.35	-95.23	515.229	27.12	30	Pass
207	6985	122.95	-95.23	591.562	27.72	30	Pass

802.11be (EHT320) Beamforming

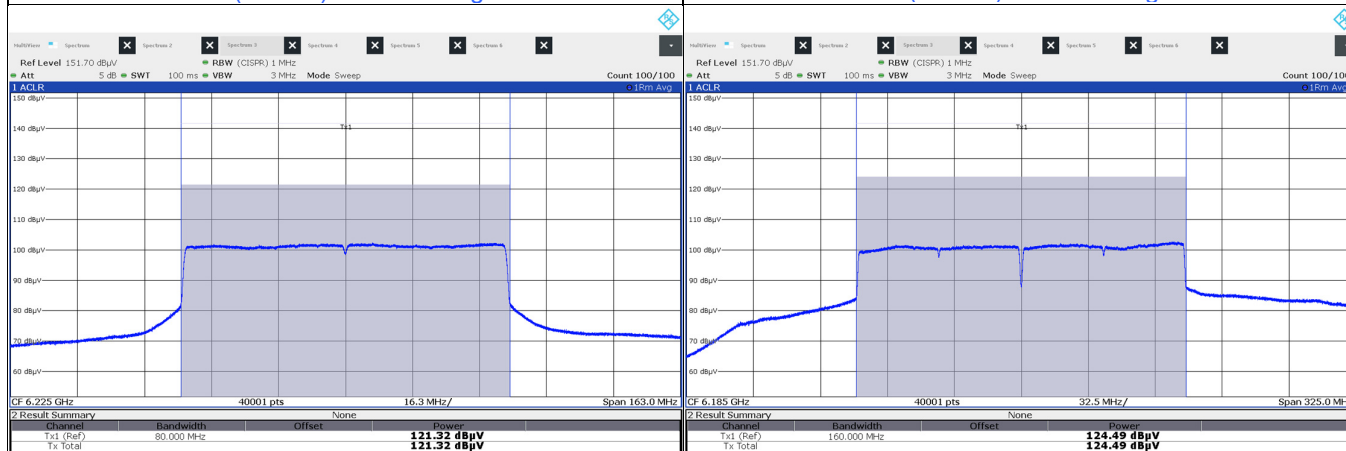
Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
63	6265	124.99	-95.23	946.237	29.76	30	Pass
95	6425	124.83	-95.23	912.011	29.60	30	Pass
127	6585	124.37	-95.23	820.352	29.14	30	Pass
159	6745	124.48	-95.23	841.395	29.25	30	Pass
191	6905	122.36	-95.23	516.416	27.13	30	Pass

Spectrum Plot of Maximum Value



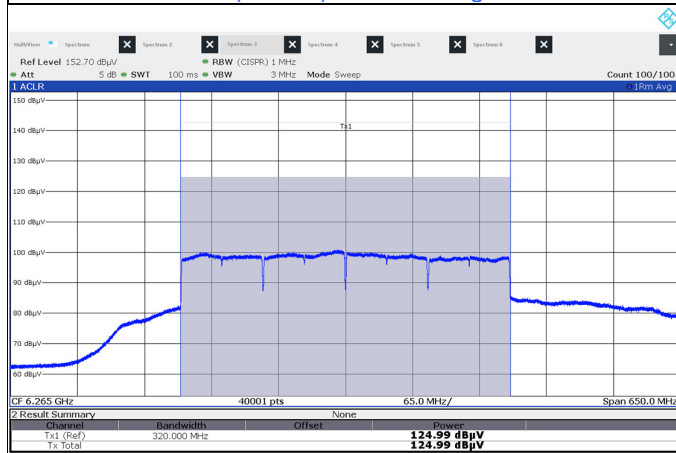
802.11be (EHT20) Beamforming: CH 93

802.11be (EHT40) Beamforming: CH 59



802.11be (EHT80) Beamforming: CH 55

802.11be (EHT160) Beamforming: CH 47



802.11be (EHT320) Beamforming: CH 63

7.2 Maximum Power Spectral Density

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Wayne Lin
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CDD

802.11a

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
33	6115	100.05	-95.23	4.82	5	Pass
61	6255	100.08	-95.23	4.85	5	Pass
93	6415	100.12	-95.23	4.89	5	Pass
97	6435	100.15	-95.23	4.92	5	Pass
105	6475	100.12	-95.23	4.89	5	Pass
113	6515	100.17	-95.23	4.94	5	Pass
117	6535	100.09	-95.23	4.86	5	Pass
149	6695	100.07	-95.23	4.84	5	Pass
181	6855	100.07	-95.23	4.84	5	Pass
185	6875	100.12	-95.23	4.89	5	Pass
209	6995	100.05	-95.23	4.82	5	Pass
229	7095	100.02	-95.23	4.79	5	Pass
233	7115	96.06	-95.23	0.83	5	Pass

2T1S

802.11be (EHT20) Beamforming

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
33	6115	100.15	-95.23	4.92	5	Pass
61	6255	100.08	-95.23	4.85	5	Pass
93	6415	100.13	-95.23	4.90	5	Pass
97	6435	100.18	-95.23	4.95	5	Pass
105	6475	100.22	-95.23	4.99	5	Pass
113	6515	100.22	-95.23	4.99	5	Pass
117	6535	100.13	-95.23	4.90	5	Pass
149	6695	100.10	-95.23	4.87	5	Pass
181	6855	100.14	-95.23	4.91	5	Pass
185	6875	100.20	-95.23	4.97	5	Pass
209	6995	100.22	-95.23	4.99	5	Pass
229	7095	100.15	-95.23	4.92	5	Pass
233	7115	84.34	-95.23	-10.89	5	Pass

802.11be (EHT40) Beamforming

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
35	6125	100.21	-95.23	4.98	5	Pass
59	6245	100.09	-95.23	4.86	5	Pass
91	6405	100.15	-95.23	4.92	5	Pass
99	6445	100.07	-95.23	4.84	5	Pass
107	6485	100.13	-95.23	4.90	5	Pass
115	6525	100.16	-95.23	4.93	5	Pass
123	6565	100.07	-95.23	4.84	5	Pass
155	6725	99.97	-95.23	4.74	5	Pass
179	6845	100.04	-95.23	4.81	5	Pass
187	6885	100.04	-95.23	4.81	5	Pass
211	7005	100.19	-95.23	4.96	5	Pass
227	7085	100.21	-95.23	4.98	5	Pass

802.11be (EHT80) Beamforming

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
39	6145	99.99	-95.23	4.76	5	Pass
55	6225	100.20	-95.23	4.97	5	Pass
87	6385	100.18	-95.23	4.95	5	Pass
103	6465	100.13	-95.23	4.90	5	Pass
119	6545	100.16	-95.23	4.93	5	Pass
135	6625	100.17	-95.23	4.94	5	Pass
151	6705	100.21	-95.23	4.98	5	Pass
167	6785	100.11	-95.23	4.88	5	Pass
183	6865	100.13	-95.23	4.90	5	Pass
199	6945	100.07	-95.23	4.84	5	Pass
215	7025	100.01	-95.23	4.78	5	Pass

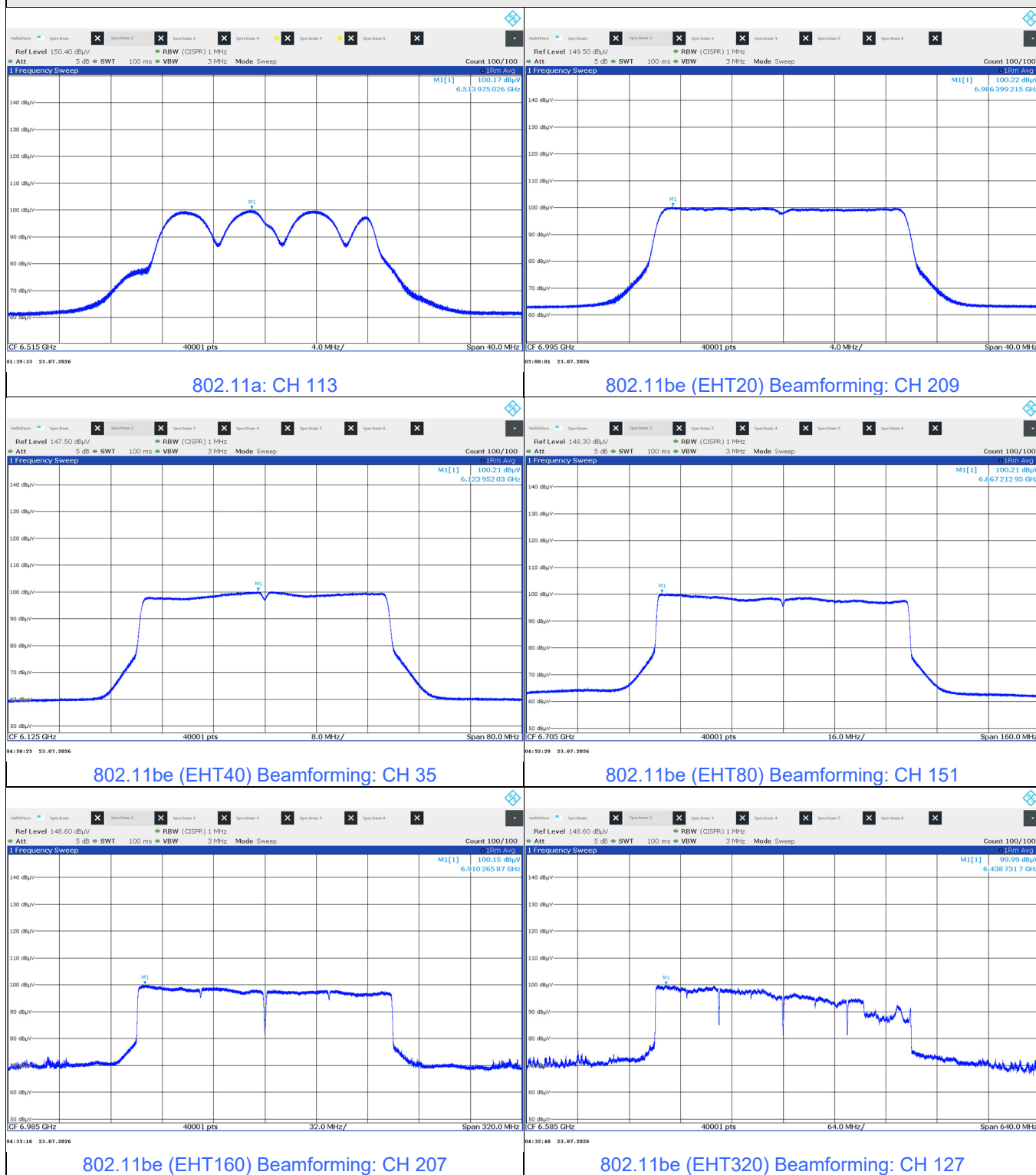
802.11be (EHT160) Beamforming

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
47	6185	100.06	-95.23	4.83	5	Pass
79	6345	100.01	-95.23	4.78	5	Pass
111	6505	100.03	-95.23	4.80	5	Pass
143	6665	100.03	-95.23	4.80	5	Pass
175	6825	100.13	-95.23	4.90	5	Pass
207	6985	100.15	-95.23	4.92	5	Pass

802.11be (EHT320) Beamforming

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
63	6265	99.89	-95.23	4.66	5	Pass
95	6425	99.94	-95.23	4.71	5	Pass
127	6585	99.99	-95.23	4.76	5	Pass
159	6745	99.96	-95.23	4.73	5	Pass
191	6905	97.68	-95.23	2.45	5	Pass

Spectrum Plot of Maximum Value



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802.11be (EHT20) Beamforming

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
33	6115	100.22	-95.23	4.99	5	Pass
61	6255	100.15	-95.23	4.92	5	Pass
93	6415	100.22	-95.23	4.99	5	Pass
97	6435	100.18	-95.23	4.95	5	Pass
105	6475	100.17	-95.23	4.94	5	Pass
113	6515	100.22	-95.23	4.99	5	Pass
117	6535	100.15	-95.23	4.92	5	Pass
149	6695	100.18	-95.23	4.95	5	Pass
181	6855	100.14	-95.23	4.91	5	Pass
185	6875	100.20	-95.23	4.97	5	Pass
209	6995	100.21	-95.23	4.98	5	Pass
229	7095	100.18	-95.23	4.95	5	Pass
233	7115	84.40	-95.23	-10.83	5	Pass

802.11be (EHT40) Beamforming

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
35	6125	100.20	-95.23	4.97	5	Pass
59	6245	100.16	-95.23	4.93	5	Pass
91	6405	100.16	-95.23	4.93	5	Pass
99	6445	100.14	-95.23	4.91	5	Pass
107	6485	100.18	-95.23	4.95	5	Pass
115	6525	100.17	-95.23	4.94	5	Pass
123	6565	100.14	-95.23	4.91	5	Pass
155	6725	100.08	-95.23	4.85	5	Pass
179	6845	100.05	-95.23	4.82	5	Pass
187	6885	100.09	-95.23	4.86	5	Pass
211	7005	100.22	-95.23	4.99	5	Pass
227	7085	100.22	-95.23	4.99	5	Pass

802.11be (EHT80) Beamforming

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
39	6145	100.06	-95.23	4.83	5	Pass
55	6225	100.21	-95.23	4.98	5	Pass
87	6385	100.14	-95.23	4.91	5	Pass
103	6465	100.12	-95.23	4.89	5	Pass
119	6545	100.21	-95.23	4.98	5	Pass
135	6625	100.17	-95.23	4.94	5	Pass
151	6705	100.18	-95.23	4.95	5	Pass
167	6785	100.14	-95.23	4.91	5	Pass
183	6865	100.16	-95.23	4.93	5	Pass
199	6945	100.07	-95.23	4.84	5	Pass
215	7025	100.08	-95.23	4.85	5	Pass

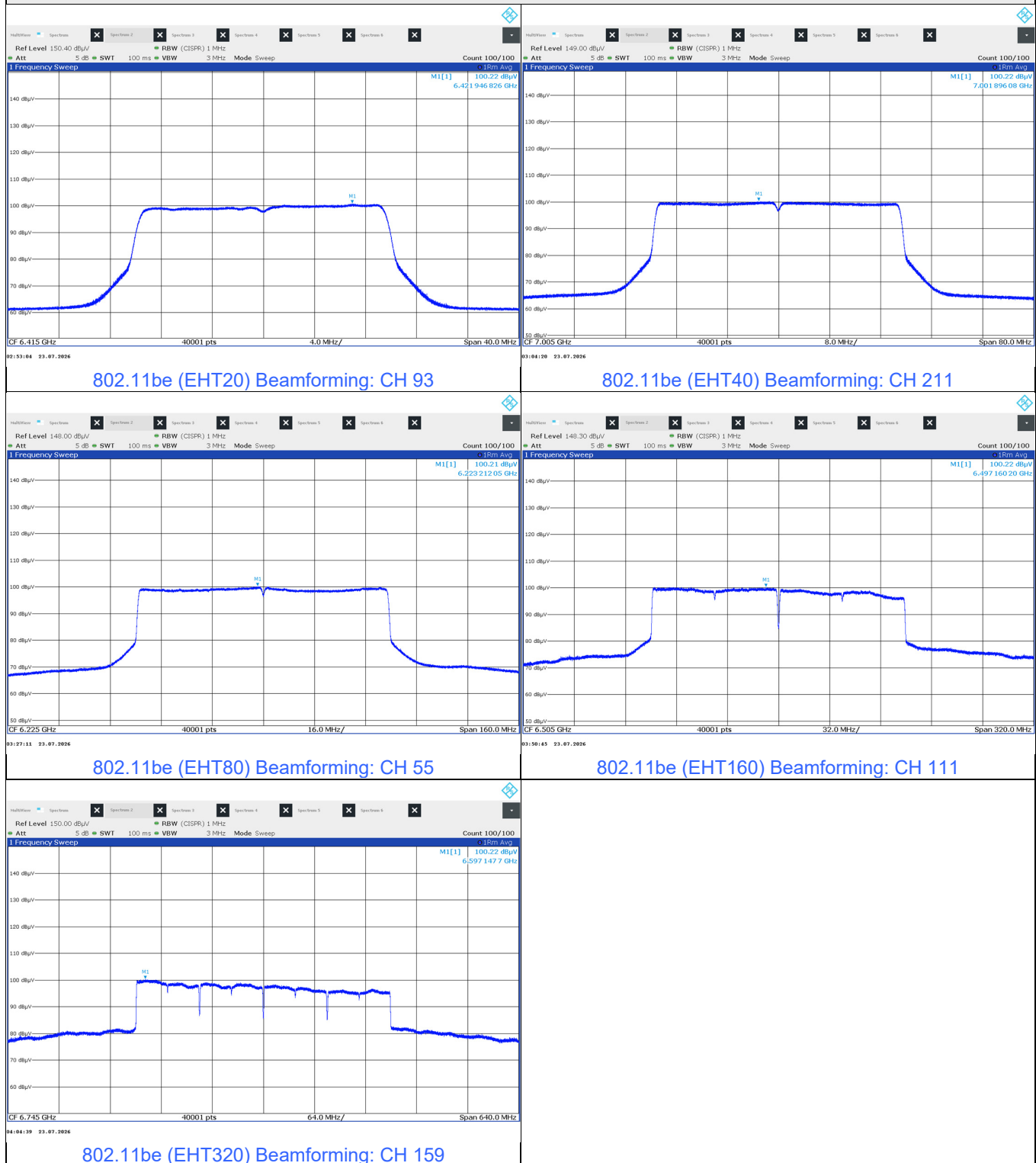
802.11be (EHT160) Beamforming

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
47	6185	100.20	-95.23	4.97	5	Pass
79	6345	100.21	-95.23	4.98	5	Pass
111	6505	100.22	-95.23	4.99	5	Pass
143	6665	100.22	-95.23	4.99	5	Pass
175	6825	100.20	-95.23	4.97	5	Pass
207	6985	100.20	-95.23	4.97	5	Pass

802.11be (EHT320) Beamforming

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
63	6265	99.59	-95.23	4.36	5	Pass
95	6425	99.77	-95.23	4.54	5	Pass
127	6585	100.20	-95.23	4.97	5	Pass
159	6745	100.22	-95.23	4.99	5	Pass
191	6905	99.68	-95.23	4.45	5	Pass

Spectrum Plot of Maximum Value



7.3 Emission Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Wayne Lin
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CDD

802.11a

Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Maximum Limit (MHz)	Test Result
		Chain 0	Chain 1		
33	6115	23.42	23.51	320	Pass
61	6255	22.98	23.00	320	Pass
93	6415	22.94	22.85	320	Pass
97	6435	23.02	22.93	320	Pass
105	6475	22.72	22.78	320	Pass
113	6515	22.59	22.55	320	Pass
117	6535	22.64	22.57	320	Pass
149	6695	22.44	22.52	320	Pass
181	6855	23.31	23.06	320	Pass
185	6875	22.97	23.12	320	Pass
209	6995	23.55	23.30	320	Pass
229	7095	23.61	23.58	320	Pass
233	7115	23.70	23.92	320	Pass

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802.11be (EHT20) Beamforming

Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Maximum Limit (MHz)	Test Result
		Chain 0	Chain 1		
33	6115	24.74	24.28	320	Pass
61	6255	23.74	24.23	320	Pass
93	6415	23.43	23.25	320	Pass
97	6435	23.10	22.76	320	Pass
105	6475	22.63	22.84	320	Pass
113	6515	22.61	22.90	320	Pass
117	6535	22.39	22.67	320	Pass
149	6695	22.64	22.63	320	Pass
181	6855	23.06	22.92	320	Pass
185	6875	23.24	22.92	320	Pass
209	6995	23.57	23.91	320	Pass
229	7095	24.01	24.57	320	Pass
233	7115	24.20	24.31	320	Pass

802.11be (EHT40) Beamforming

Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Maximum Limit (MHz)	Test Result
		Chain 0	Chain 1		
35	6125	45.07	44.35	320	Pass
59	6245	45.12	44.47	320	Pass
91	6405	44.21	44.97	320	Pass
99	6445	44.39	44.65	320	Pass
107	6485	44.33	44.68	320	Pass
115	6525	44.35	44.68	320	Pass
123	6565	45.54	44.60	320	Pass
155	6725	45.32	44.88	320	Pass
179	6845	44.48	44.02	320	Pass
187	6885	44.12	44.32	320	Pass
211	7005	43.90	44.48	320	Pass
227	7085	44.98	44.12	320	Pass

802.11be (EHT80) Beamforming

Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Maximum Limit (MHz)	Test Result
		Chain 0	Chain 1		
39	6145	88.07	88.43	320	Pass
55	6225	89.33	88.88	320	Pass
87	6385	87.81	88.48	320	Pass
103	6465	88.80	87.54	320	Pass
119	6545	88.53	88.44	320	Pass
135	6625	89.71	90.35	320	Pass
151	6705	89.07	89.13	320	Pass
167	6785	89.24	88.52	320	Pass
183	6865	88.88	89.22	320	Pass
199	6945	87.89	88.76	320	Pass
215	7025	89.33	89.52	320	Pass

802.11be (EHT160) Beamforming

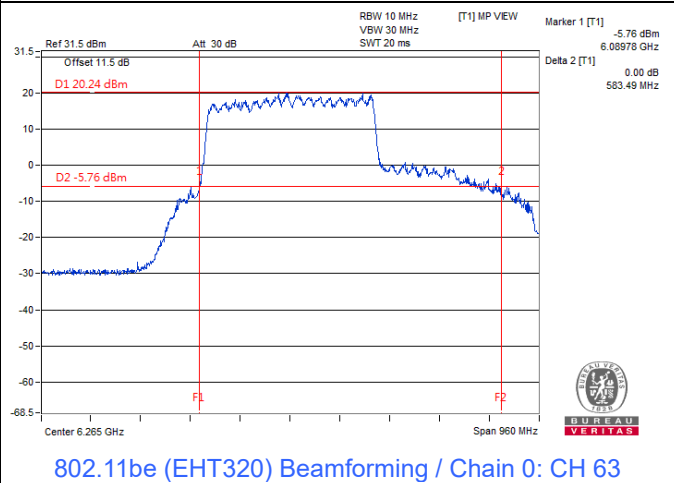
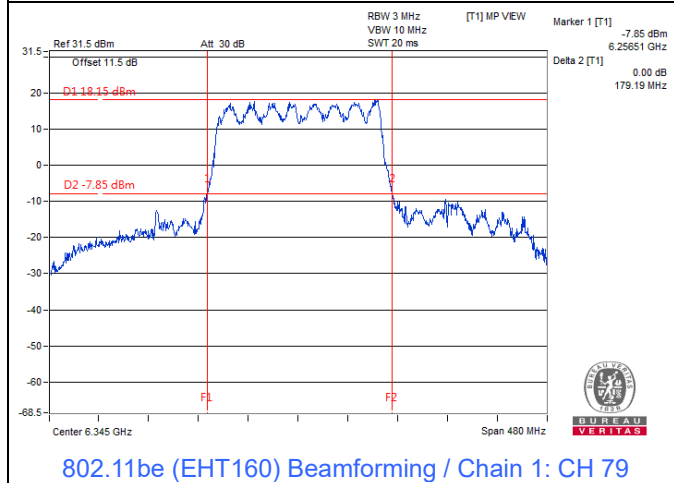
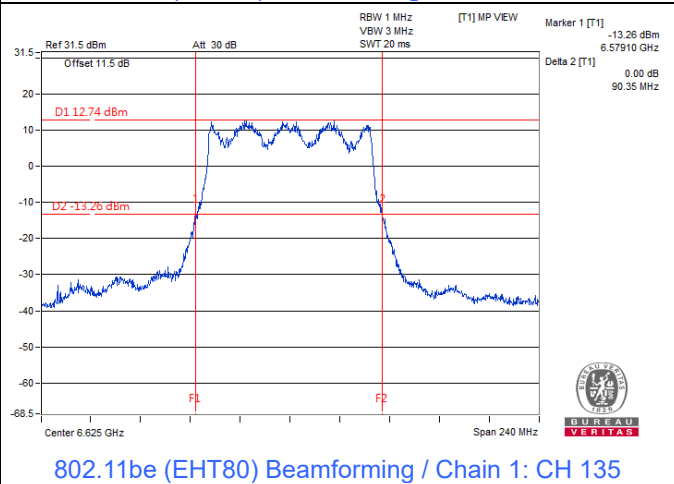
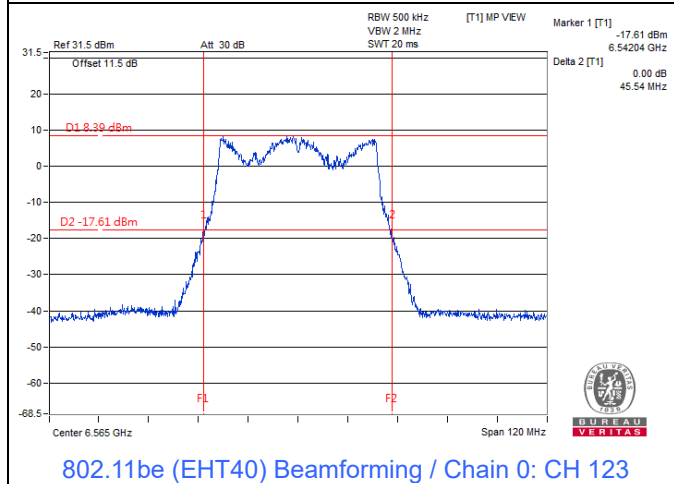
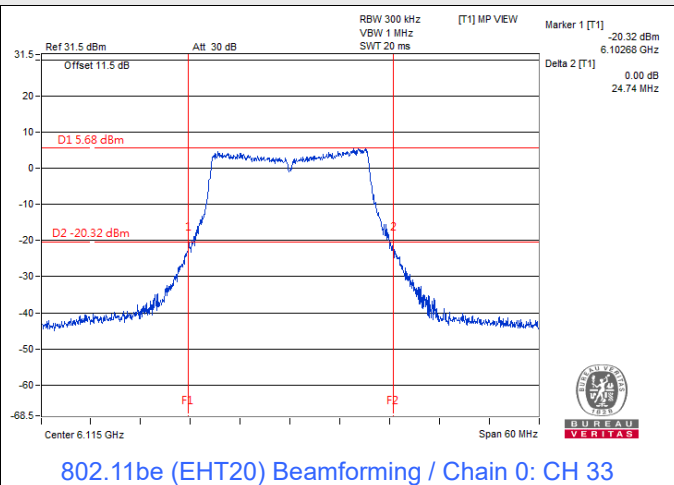
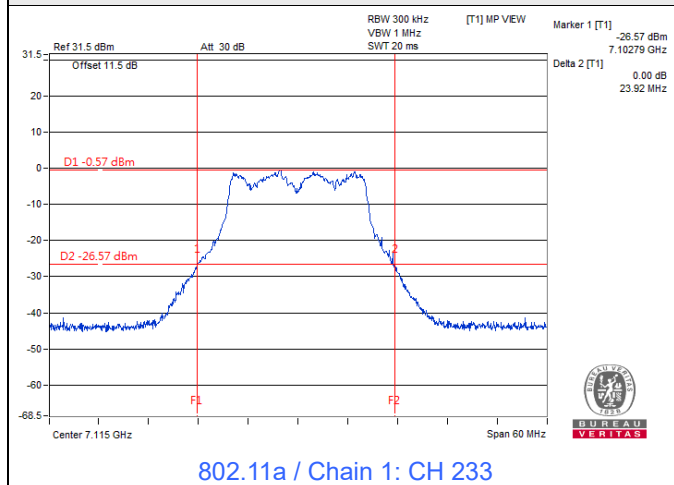
Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Maximum Limit (MHz)	Test Result
		Chain 0	Chain 1		
47	6185	178.54	178.20	320	Pass
79	6345	176.60	179.19	320	Pass
111	6505	175.11	172.71	320	Pass
143	6665	177.81	176.80	320	Pass
175	6825	175.76	176.82	320	Pass
207	6985	178.55	177.08	320	Pass

802.11be (EHT320) Beamforming

Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Maximum Limit (MHz)	Test Result
		Chain 0	Chain 1		
63	6265	583.49	580.21	320	Note
95	6425	551.69	569.87	320	Note
127	6585	342.95	343.75	320	Note
159	6745	346.02	343.99	320	Note
191	6905	344.68	345.43	320	Note

Note: For channels with a nominal bandwidth of 320 MHz, compliance is demonstrated by way of the 99% BW.

Spectrum Plot of Maximum Value



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802.11be (EHT20) Beamforming

Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Maximum Limit (MHz)	Test Result
		Chain 0	Chain 1		
33	6115	23.86	24.02	320	Pass
61	6255	23.69	24.17	320	Pass
93	6415	23.97	24.05	320	Pass
97	6435	23.78	23.90	320	Pass
105	6475	24.07	24.02	320	Pass
113	6515	24.18	23.90	320	Pass
117	6535	24.07	23.73	320	Pass
149	6695	24.11	24.01	320	Pass
181	6855	24.15	24.34	320	Pass
185	6875	24.13	23.91	320	Pass
209	6995	23.90	24.23	320	Pass
229	7095	24.00	23.84	320	Pass
233	7115	24.41	24.36	320	Pass

802.11be (EHT40) Beamforming

Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Maximum Limit (MHz)	Test Result
		Chain 0	Chain 1		
35	6125	44.93	44.83	320	Pass
59	6245	45.63	44.99	320	Pass
91	6405	45.00	45.74	320	Pass
99	6445	46.23	45.43	320	Pass
107	6485	44.86	45.46	320	Pass
115	6525	45.50	44.76	320	Pass
123	6565	45.22	45.03	320	Pass
155	6725	45.48	45.30	320	Pass
179	6845	45.82	45.11	320	Pass
187	6885	45.95	45.34	320	Pass
211	7005	45.34	45.00	320	Pass
227	7085	45.02	45.47	320	Pass

802.11be (EHT80) Beamforming

Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Maximum Limit (MHz)	Test Result
		Chain 0	Chain 1		
39	6145	89.27	89.18	320	Pass
55	6225	91.66	90.43	320	Pass
87	6385	90.70	91.43	320	Pass
103	6465	90.46	90.40	320	Pass
119	6545	90.29	90.11	320	Pass
135	6625	90.03	91.21	320	Pass
151	6705	90.60	90.38	320	Pass
167	6785	89.83	91.24	320	Pass
183	6865	90.01	89.69	320	Pass
199	6945	91.11	90.07	320	Pass
215	7025	90.46	89.63	320	Pass

802.11be (EHT160) Beamforming

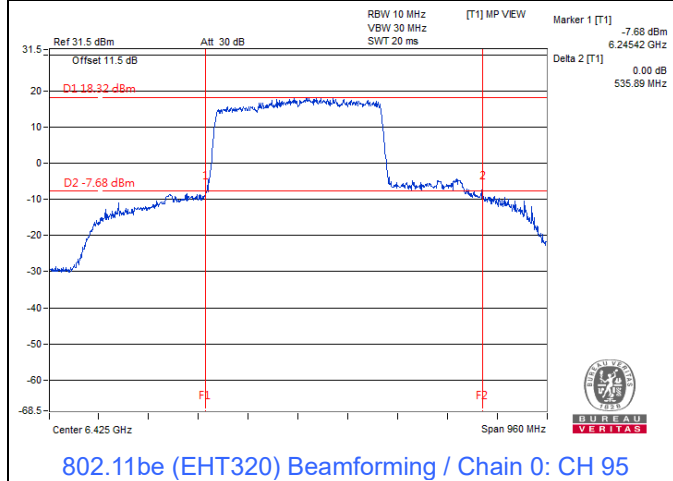
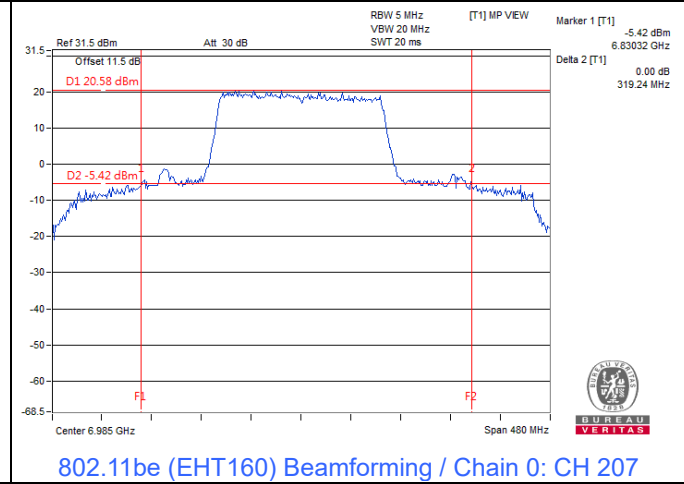
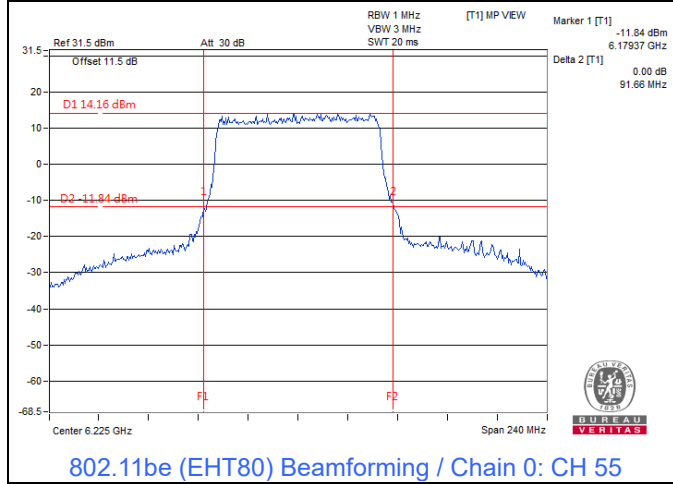
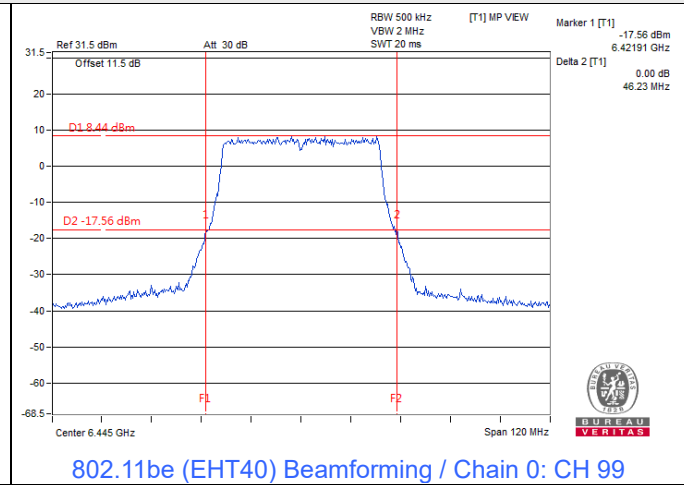
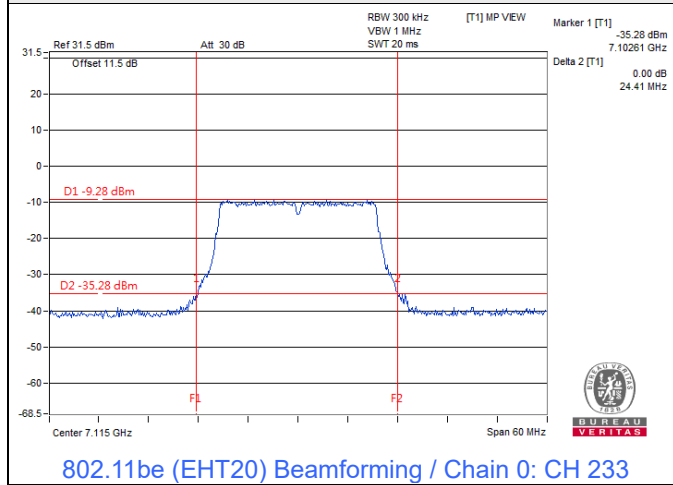
Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Maximum Limit (MHz)	Test Result
		Chain 0	Chain 1		
47	6185	309.60	313.02	320	Pass
79	6345	245.16	244.91	320	Pass
111	6505	182.10	181.81	320	Pass
143	6665	287.27	288.43	320	Pass
175	6825	181.96	180.39	320	Pass
207	6985	319.24	298.32	320	Pass

802.11be (EHT320) Beamforming

Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Maximum Limit (MHz)	Test Result
		Chain 0	Chain 1		
63	6265	494.70	490.06	320	Note
95	6425	535.89	505.76	320	Note
127	6585	485.15	486.07	320	Note
159	6745	494.12	495.84	320	Note
191	6905	352.86	350.61	320	Note

Note: For channels with a nominal bandwidth of 320 MHz, compliance is demonstrated by way of the 99% BW.

Spectrum Plot of Maximum Value

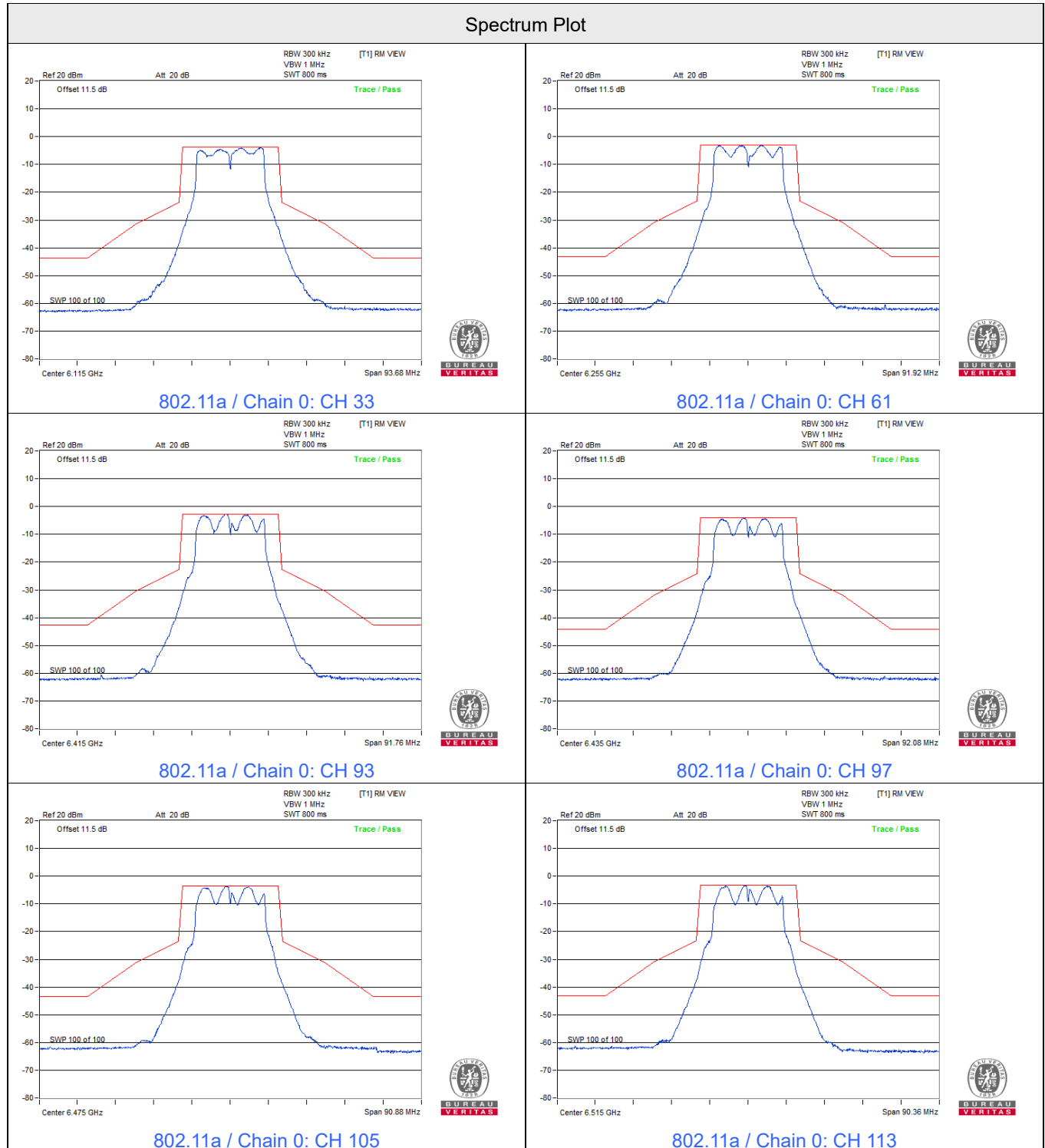


7.4 In-Band Emission Mask

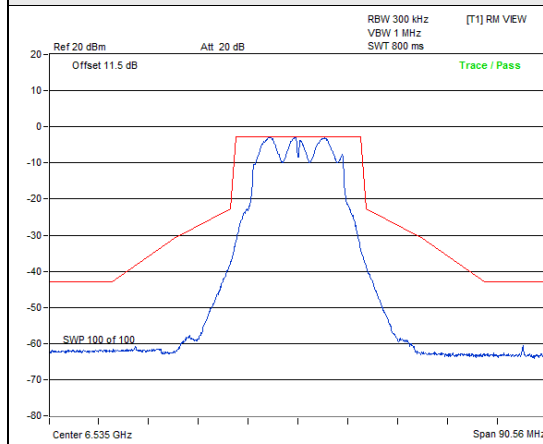
Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Wayne Lin
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CDD

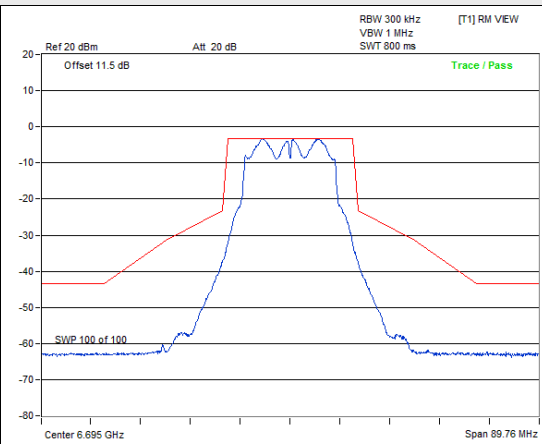
802.11a



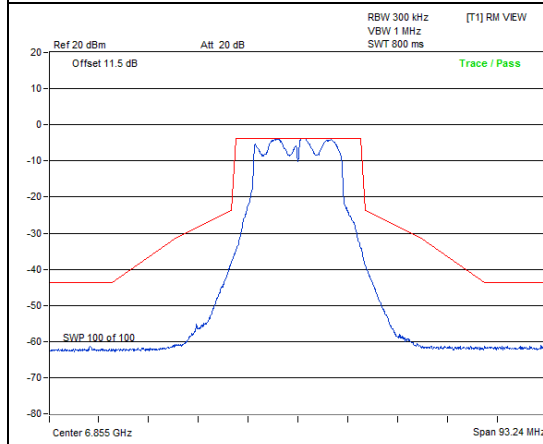
Spectrum Plot



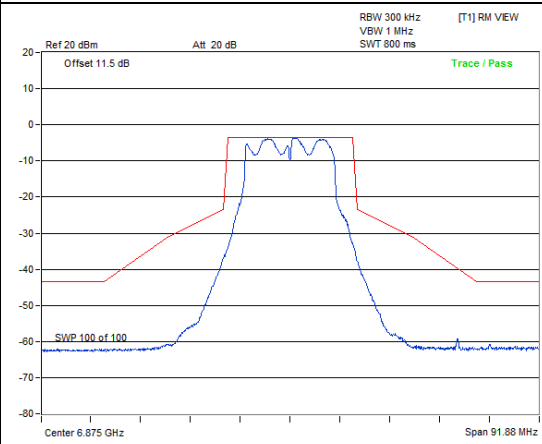
802.11a / Chain 0: CH 117



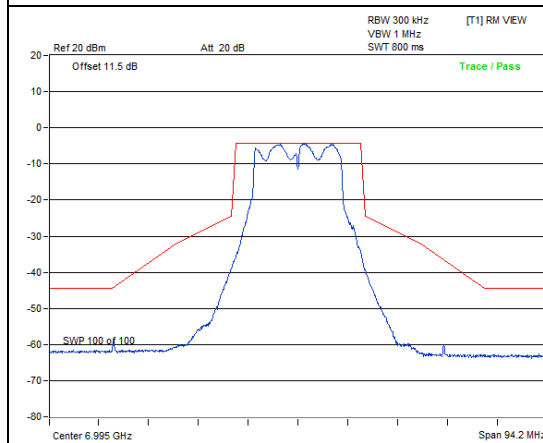
802.11a / Chain 0: CH 149



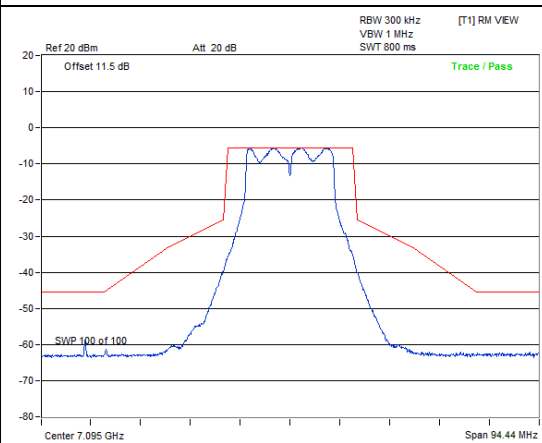
802.11a / Chain 0: CH 181



802.11a / Chain 0: CH 185

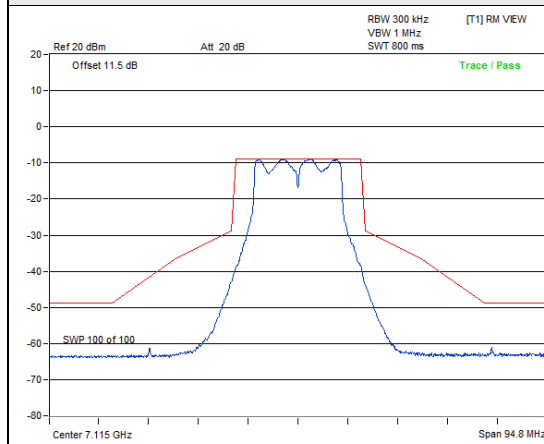


802.11a / Chain 0: CH 209

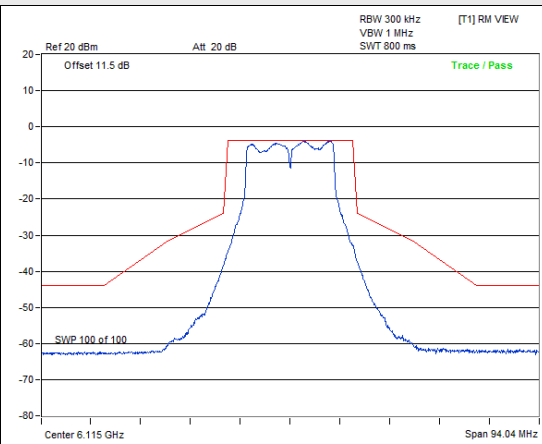


802.11a / Chain 0: CH 229

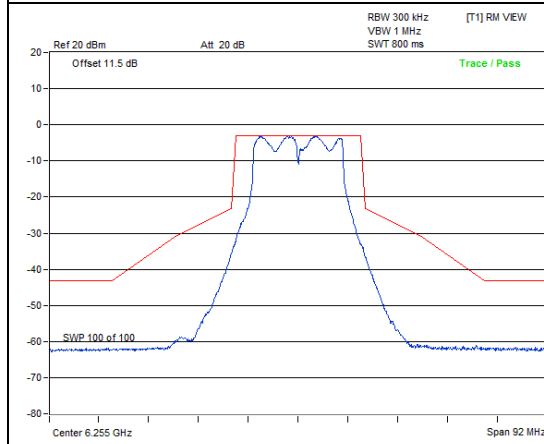
Spectrum Plot



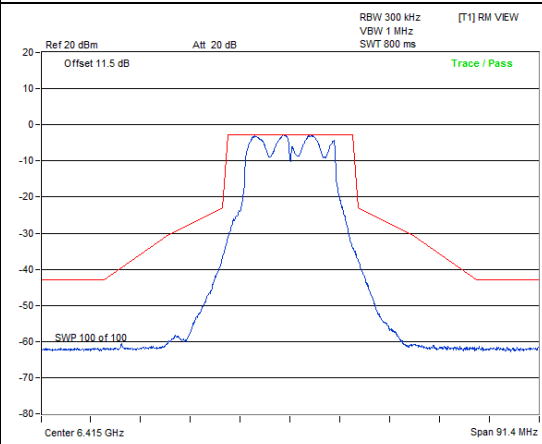
802.11a / Chain 0: CH 233



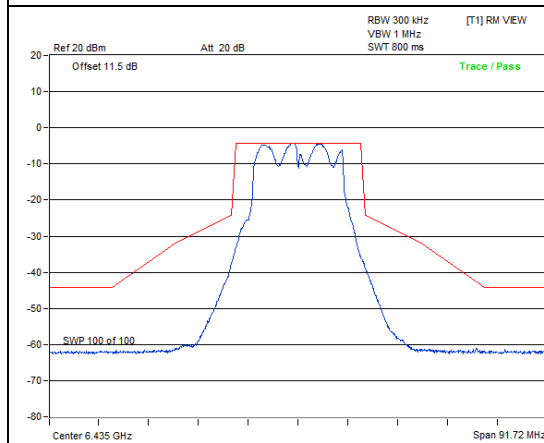
802.11a / Chain 1: CH 33



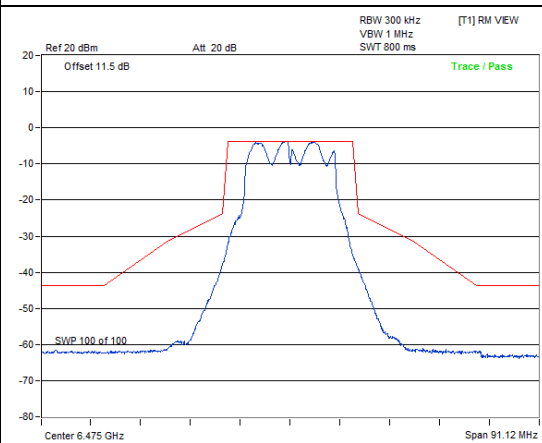
802.11a / Chain 1: CH 61



802.11a / Chain 1: CH 93

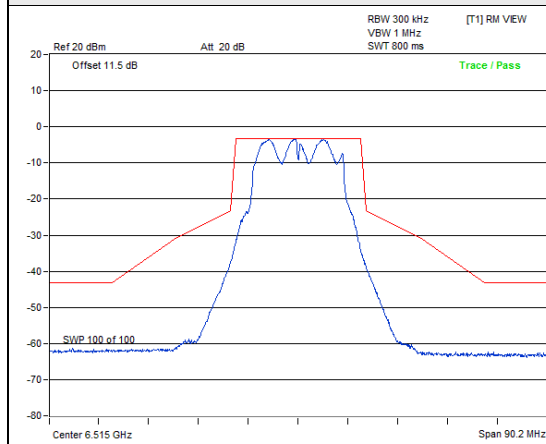


802.11a / Chain 1: CH 97

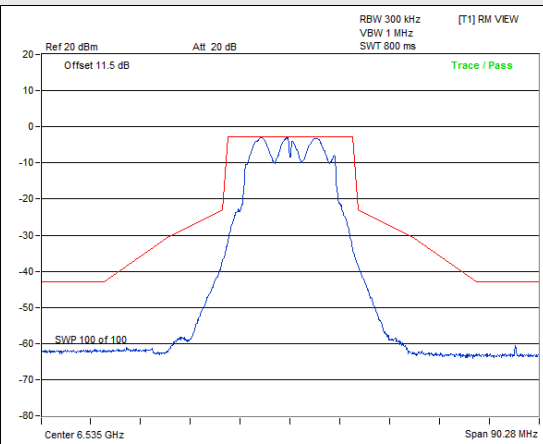


802.11a / Chain 1: CH 105

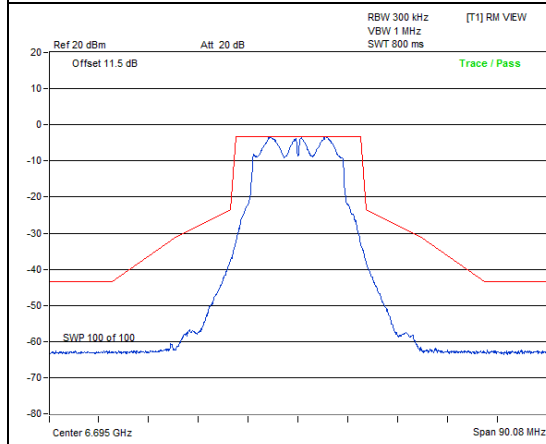
Spectrum Plot



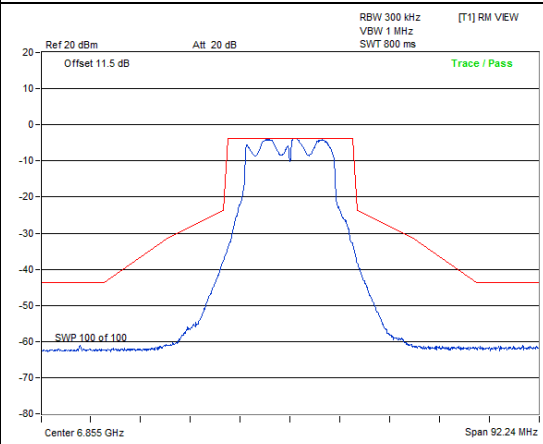
802.11a / Chain 1: CH 113



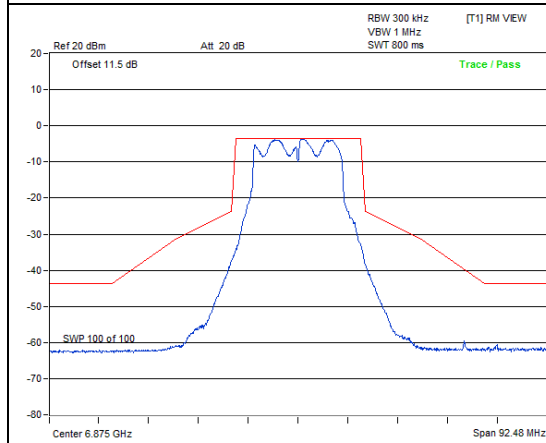
802.11a / Chain 1: CH 117



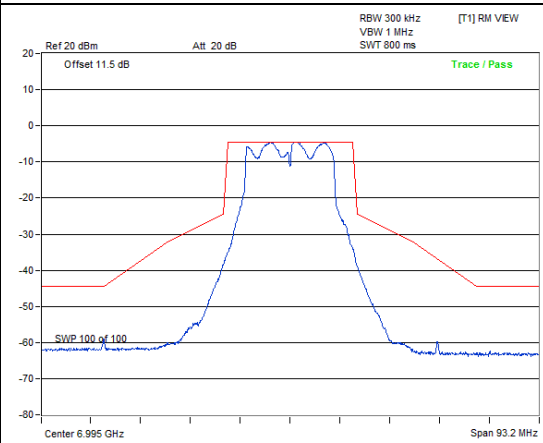
802.11a / Chain 1: CH 149



802.11a / Chain 1: CH 181

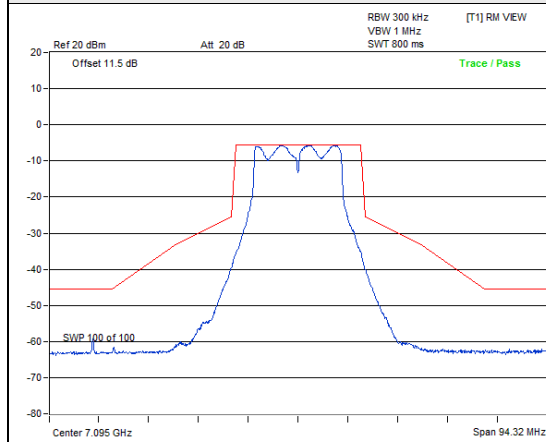


802.11a / Chain 1: CH 185

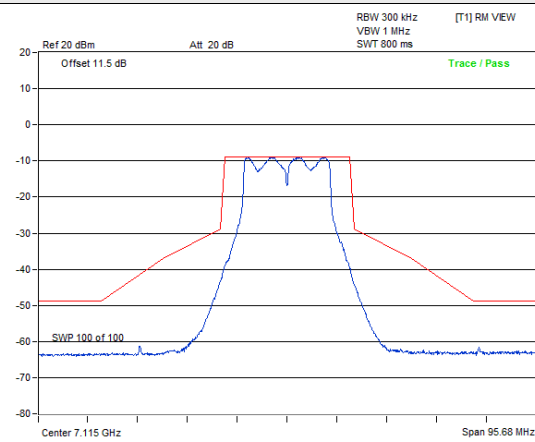


802.11a / Chain 1: CH 209

Spectrum Plot



802.11a / Chain 1: CH 229

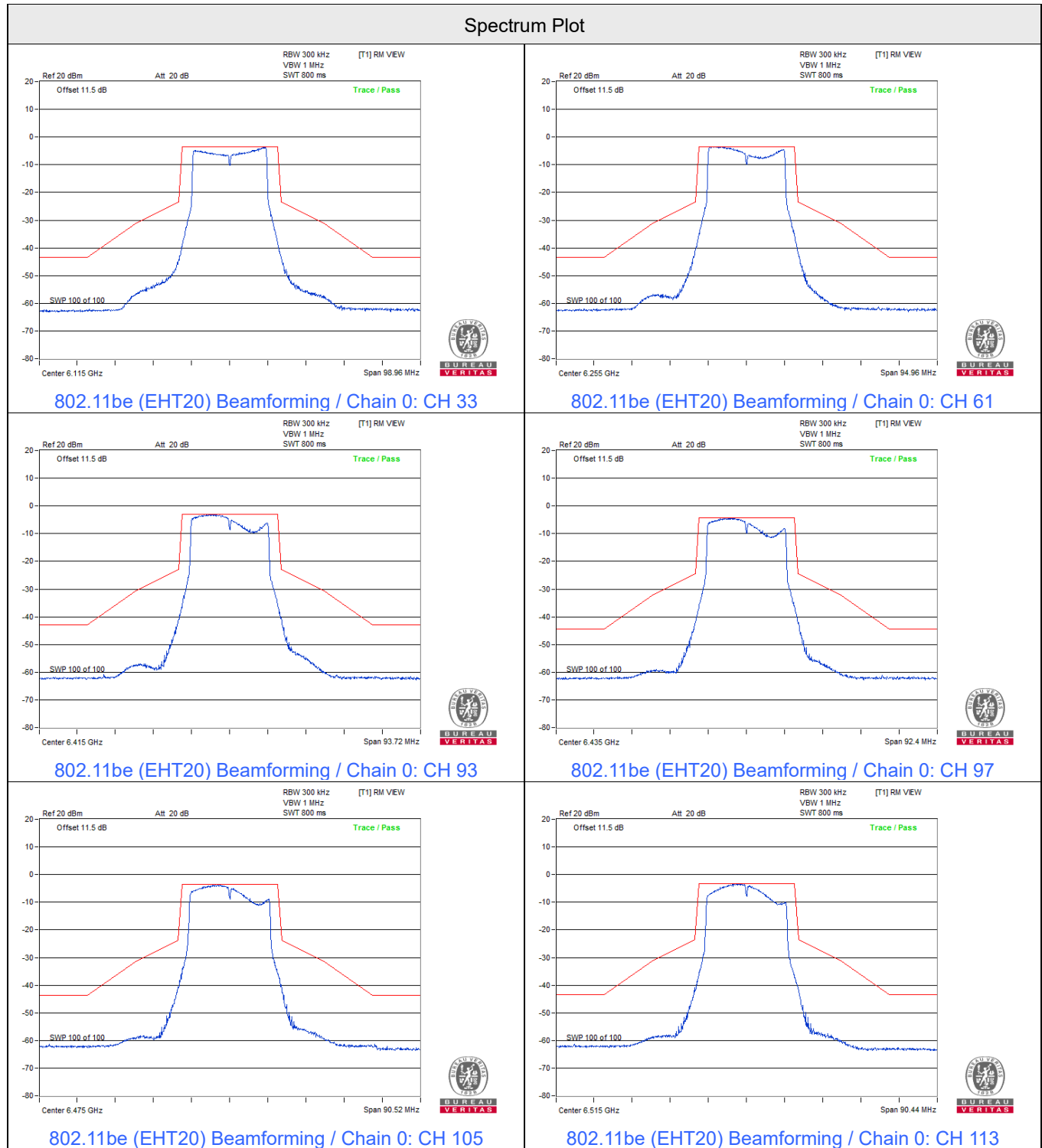


802.11a / Chain 1: CH 233

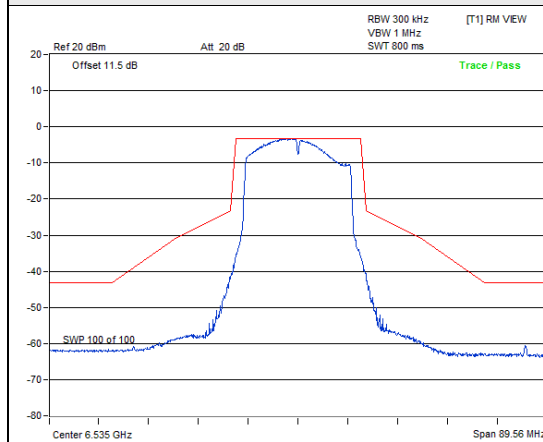


2T1S

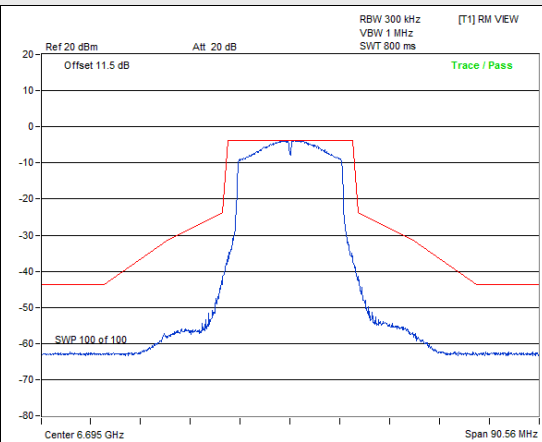
802.11be (EHT20) Beamforming



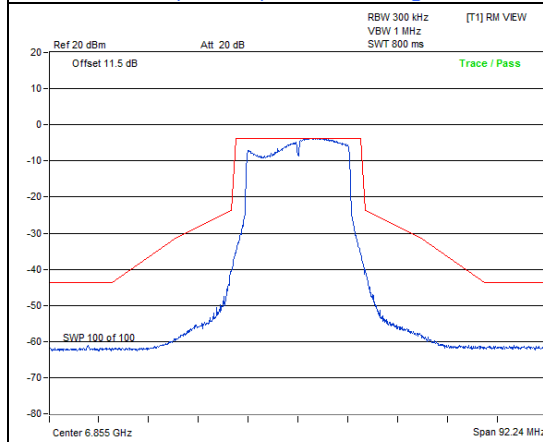
Spectrum Plot



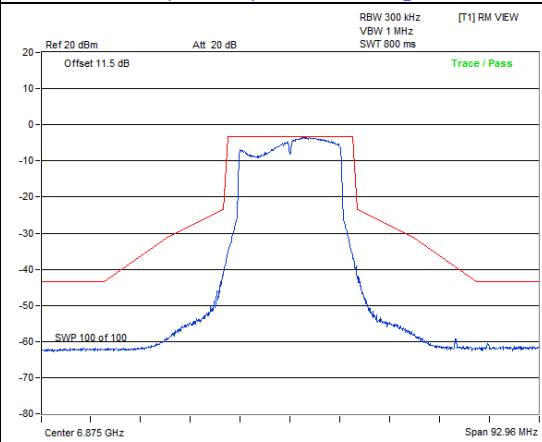
802.11be (EHT20) Beamforming / Chain 0: CH 117



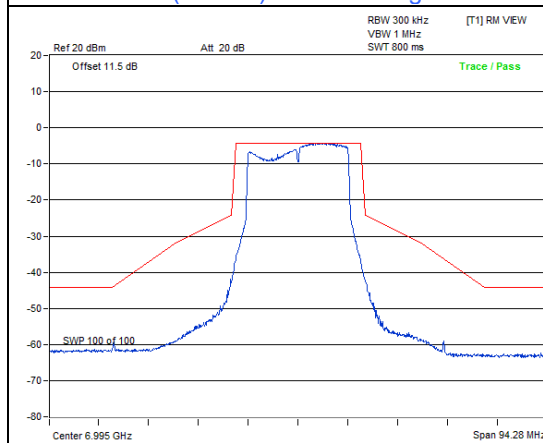
802.11be (EHT20) Beamforming / Chain 0: CH 149



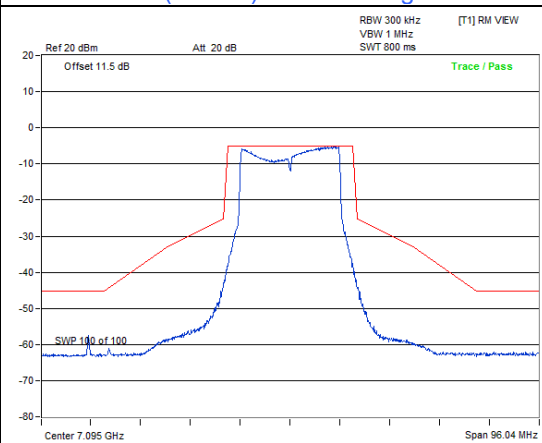
802.11be (EHT20) Beamforming / Chain 0: CH 181



802.11be (EHT20) Beamforming / Chain 0: CH 185

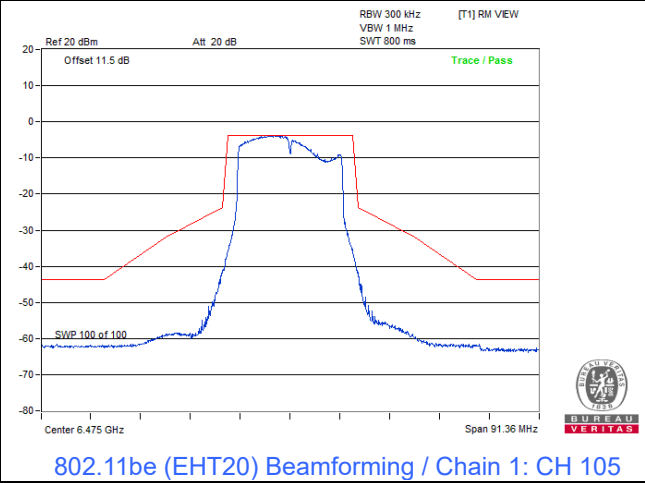
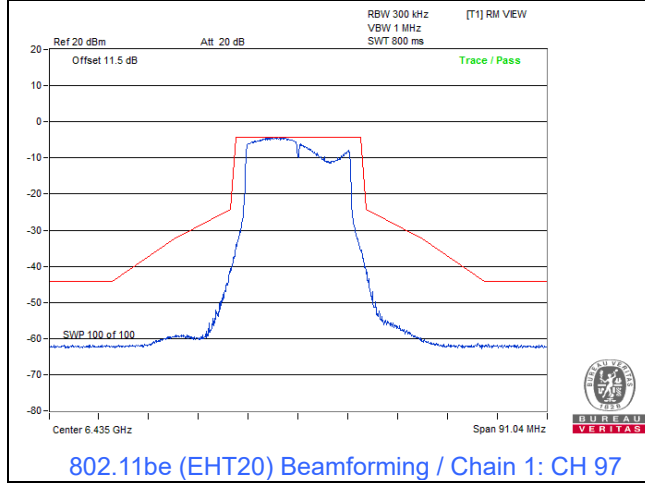
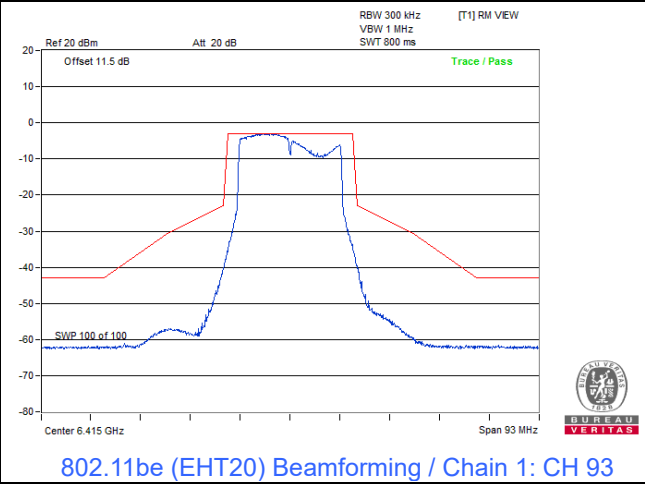
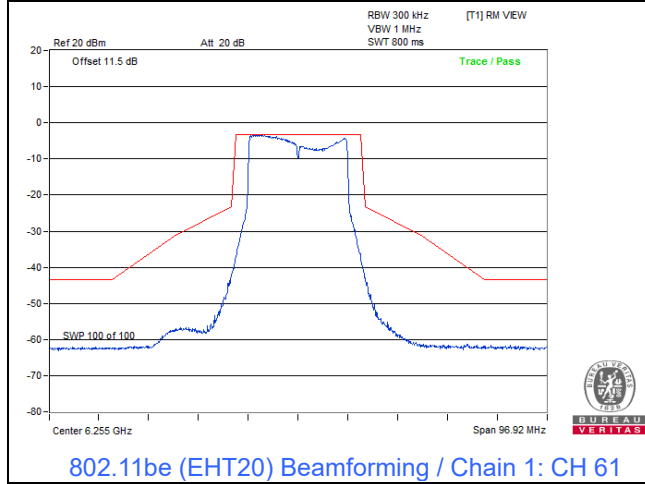
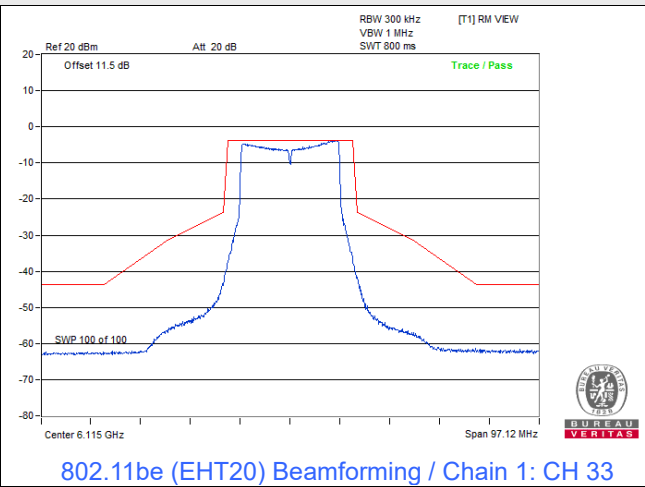
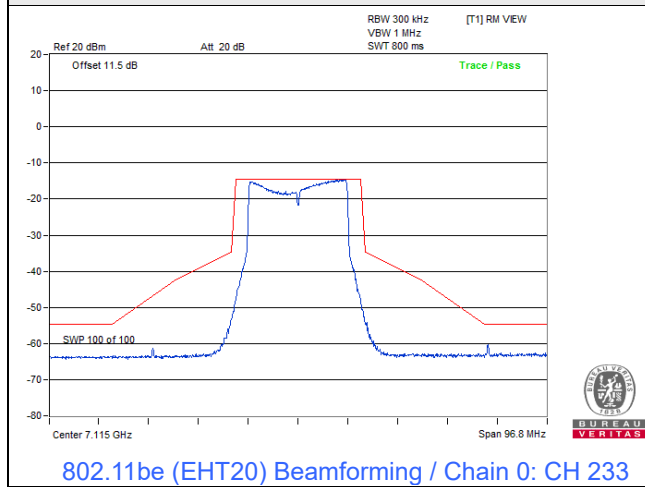


802.11be (EHT20) Beamforming / Chain 0: CH 209

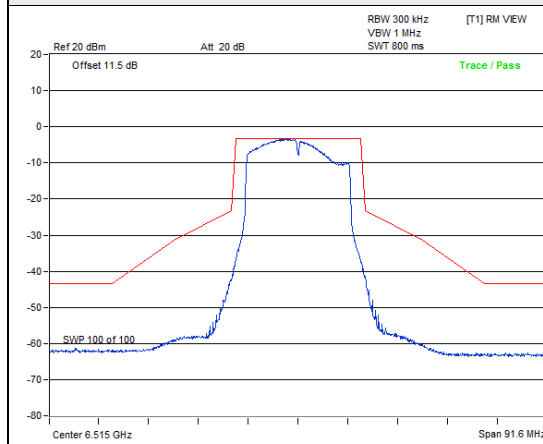


802.11be (EHT20) Beamforming / Chain 0: CH 229

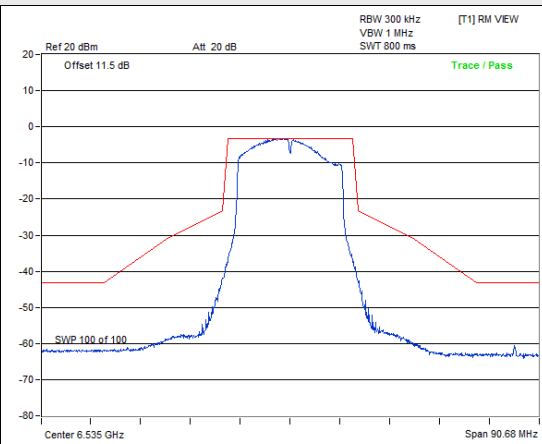
Spectrum Plot



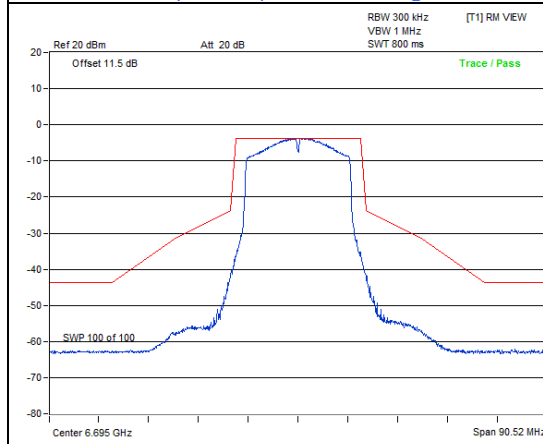
Spectrum Plot



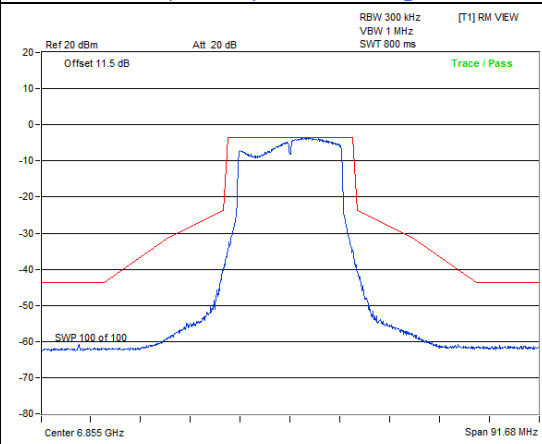
802.11be (EHT20) Beamforming / Chain 1: CH 113



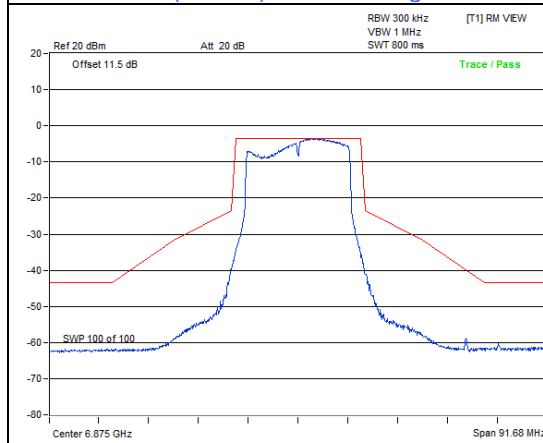
802.11be (EHT20) Beamforming / Chain 1: CH 117



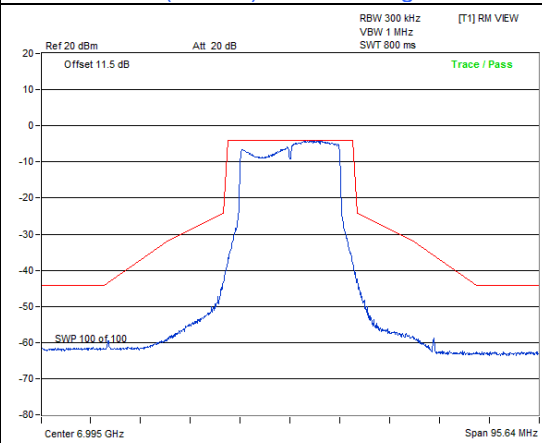
802.11be (EHT20) Beamforming / Chain 1: CH 149



802.11be (EHT20) Beamforming / Chain 1: CH 181

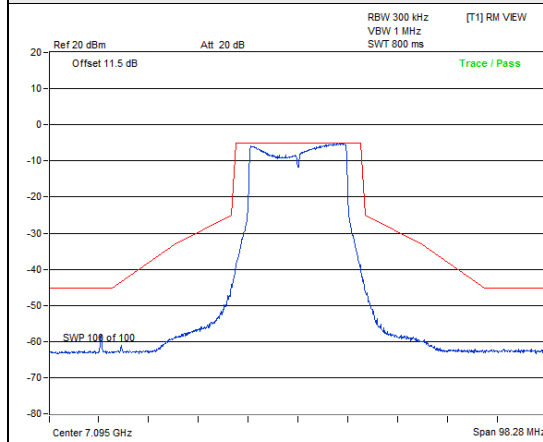


802.11be (EHT20) Beamforming / Chain 1: CH 185

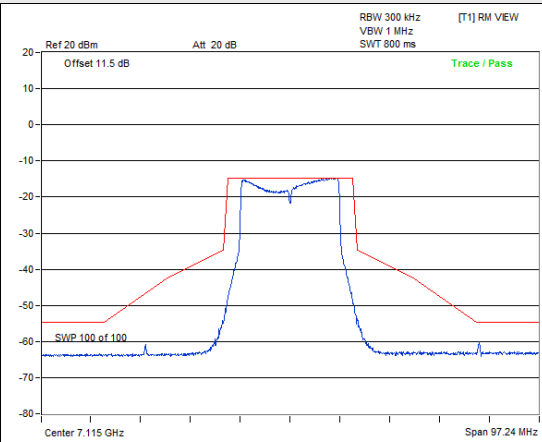


802.11be (EHT20) Beamforming / Chain 1: CH 209

Spectrum Plot



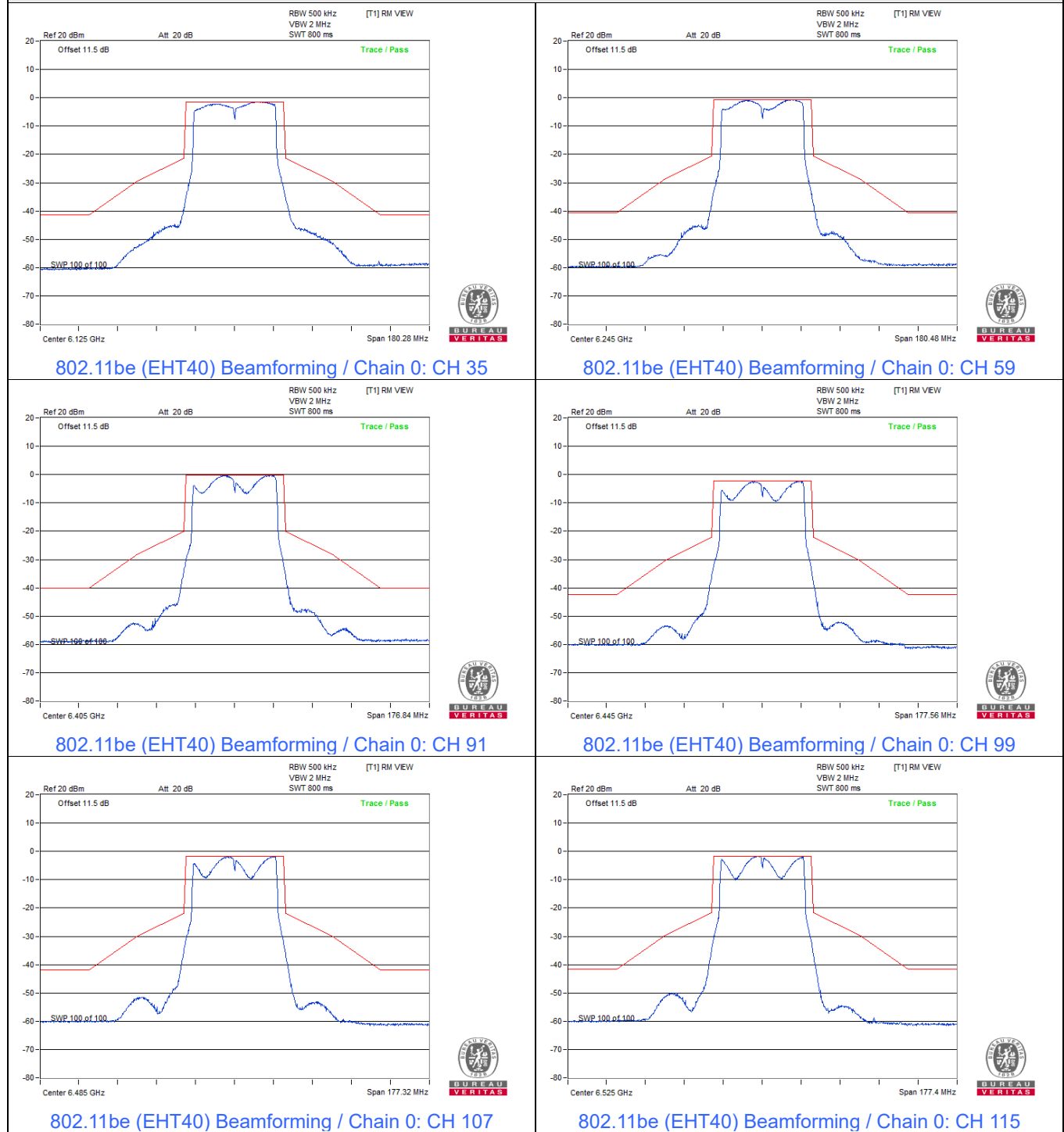
802.11be (EHT20) Beamforming / Chain 1: CH 229



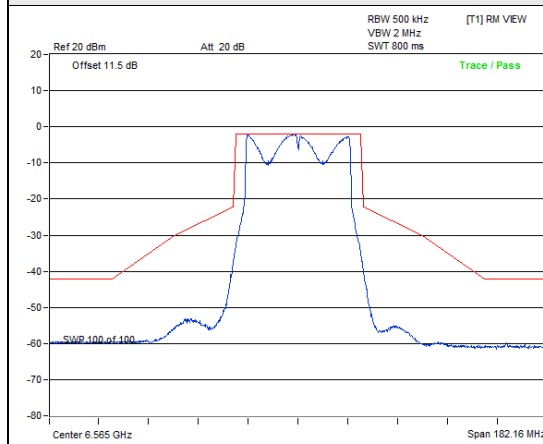
802.11be (EHT20) Beamforming / Chain 1: CH 233

802.11be (EHT40) Beamforming

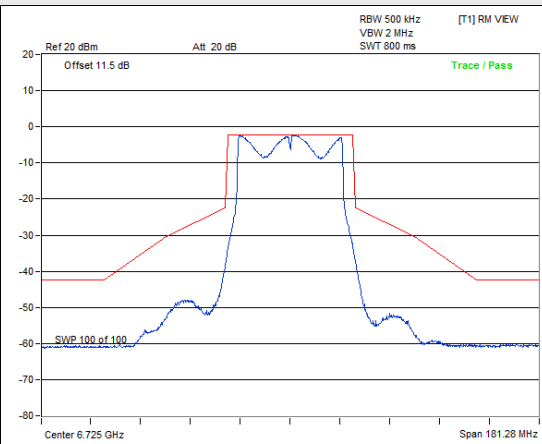
Spectrum Plot



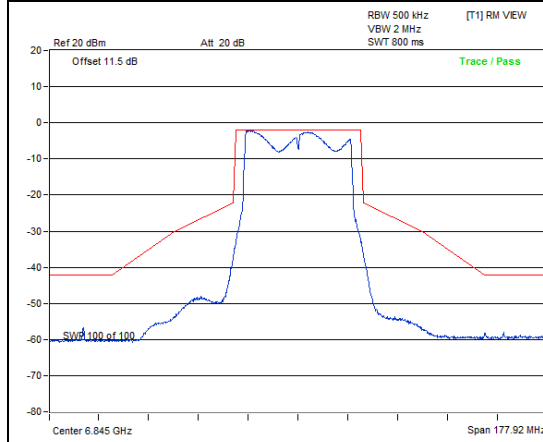
Spectrum Plot



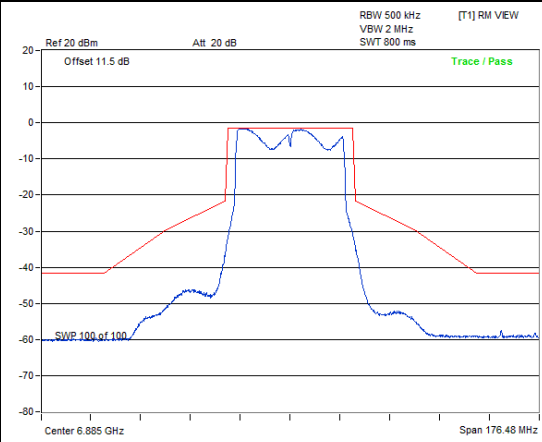
802.11be (EHT40) Beamforming / Chain 0: CH 123



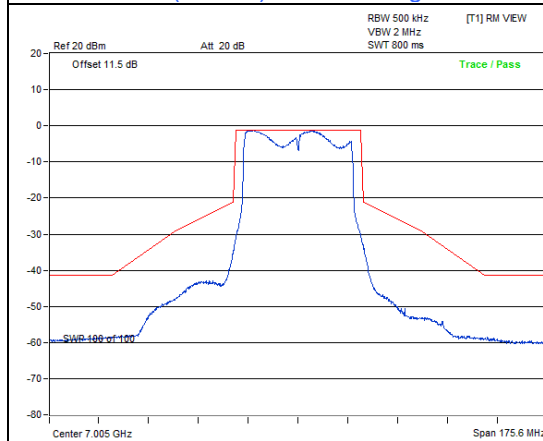
802.11be (EHT40) Beamforming / Chain 0: CH 155



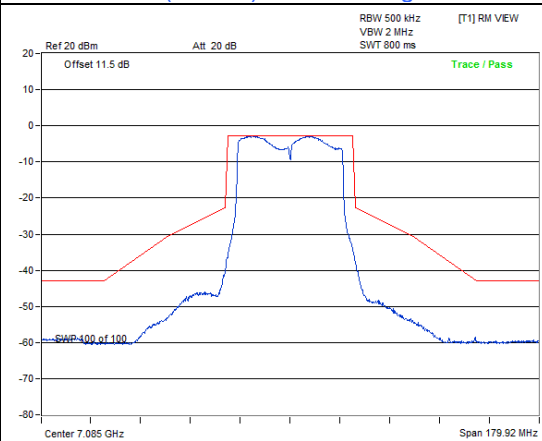
802.11be (EHT40) Beamforming / Chain 0: CH 179



802.11be (EHT40) Beamforming / Chain 0: CH 187

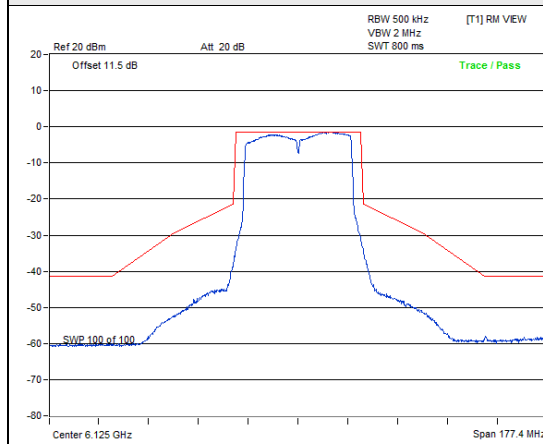


802.11be (EHT40) Beamforming / Chain 0: CH 211

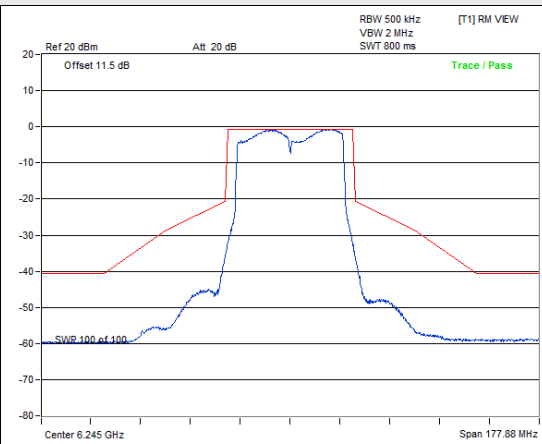


802.11be (EHT40) Beamforming / Chain 0: CH 227

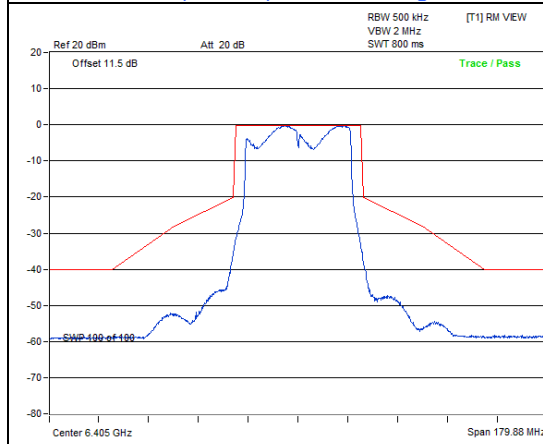
Spectrum Plot



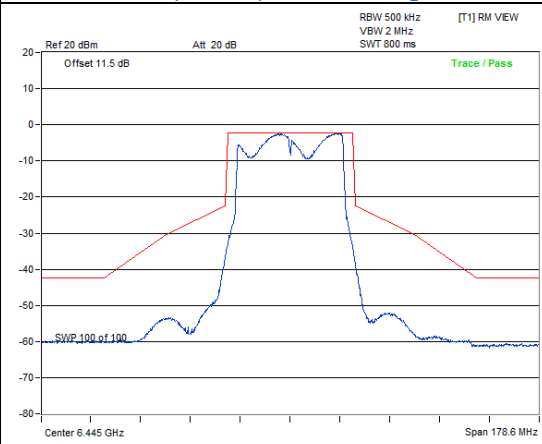
802.11be (EHT40) Beamforming / Chain 1: CH 35



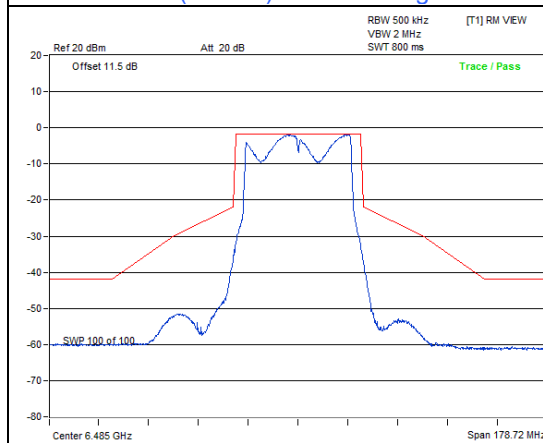
802.11be (EHT40) Beamforming / Chain 1: CH 59



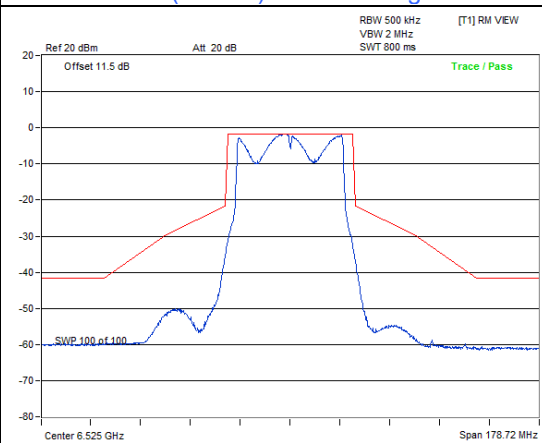
802.11be (EHT40) Beamforming / Chain 1: CH 91



802.11be (EHT40) Beamforming / Chain 1: CH 99

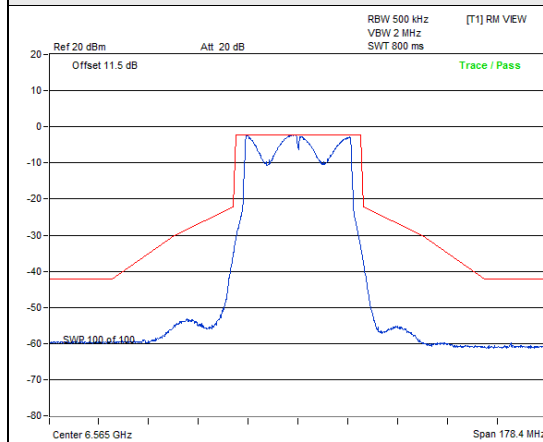


802.11be (EHT40) Beamforming / Chain 1: CH 107

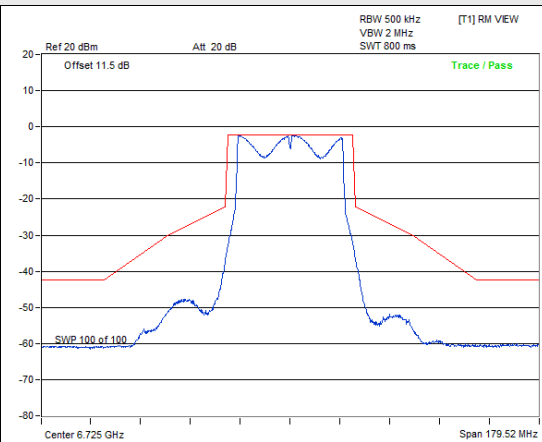


802.11be (EHT40) Beamforming / Chain 1: CH 115

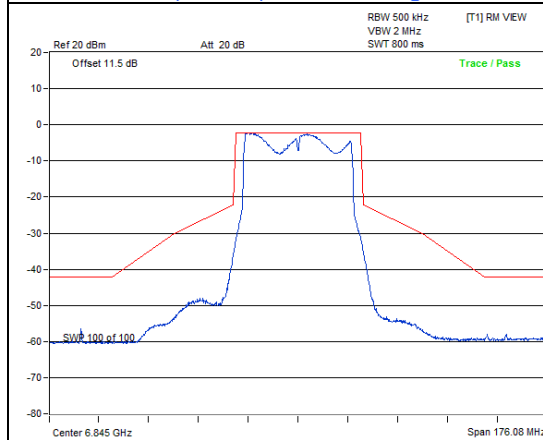
Spectrum Plot



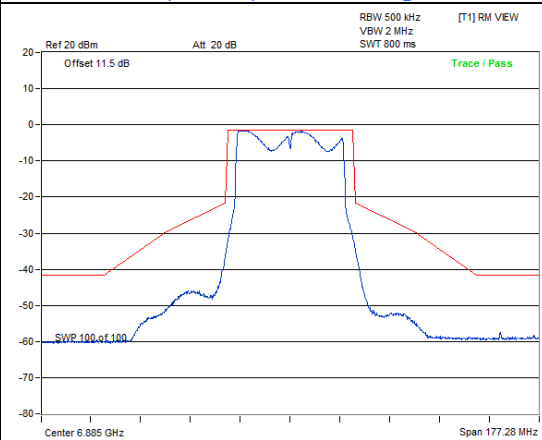
802.11be (EHT40) Beamforming / Chain 1: CH 123



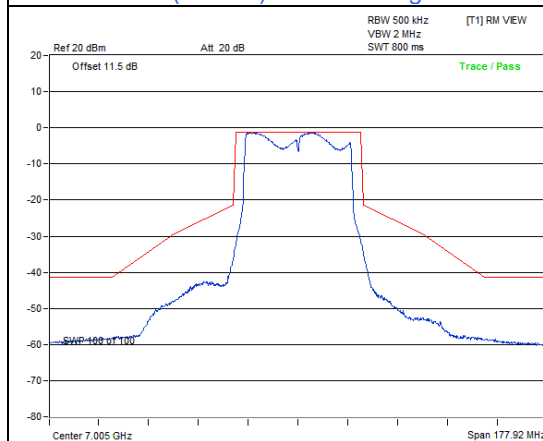
802.11be (EHT40) Beamforming / Chain 1: CH 155



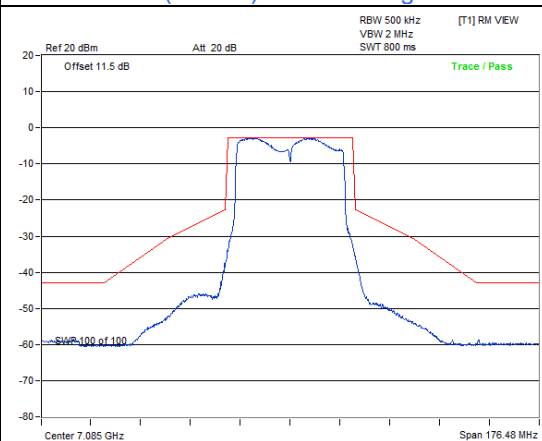
802.11be (EHT40) Beamforming / Chain 1: CH 179



802.11be (EHT40) Beamforming / Chain 1: CH 187



802.11be (EHT40) Beamforming / Chain 1: CH 211



802.11be (EHT40) Beamforming / Chain 1: CH 227

802.11be (EHT80) Beamforming

Spectrum Plot

