

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)
Report No.: RFBBQZ-WTW-P24040119-3
FCC ID: PY324100619
Product: Orbi 11BE WiFi 7 Tri-band Router & Orbi 11BE WiFi 7 Tri-band Satellite
(Refer to item 3.1 for the more details)
Brand: NETGEAR
Model No.: RBE871
Series Model: RBE870 (Refer to item 3.1 for the more details)
Received Date: 2024/4/8
Test Date: 2024/8/19 ~ 2024/9/26
Issued Date: 2024/10/29

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: Jeremy Lin, **Date:** 2024/10/29
Jeremy Lin / Project Engineer

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Prepared by : Vera Huang / Specialist



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Release Control Record

Issue No.	Description	Date Issued
RFBBQZ-WTW-P24040119-3	Original Release	2024/10/29

1 Certificate

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

Brand: NETGEAR

Test Model: RBE871

Series Model: RBE870 (Refer to item 3.1 for the more details)

Sample Status: Engineering sample

Applicant and Manufacturer: NETGEAR, INC.

Test Date: 2024/8/19 ~ 2024/9/26

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

Measurement procedure: ANSI C63.10-2013

KDB 987594 D02 U-NII 6 GHz EMC Measurement v02r01

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 -9.76 dB at 0.43800 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -4.0 dB at 710.41 MHz
15.407(b)(6) 15.407(b)(10)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -0.1 dB at 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) (±)
Maximum RF Output Power	1 GHz ~ 18 GHz	2.29 dB
Maximum Power Spectral Density	1 GHz ~ 18 GHz	2.29 dB
Occupied Bandwidth	-	72 Hz
AC Power Conducted Emissions	9 kHz ~ 30 MHz	2.90 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	RBE871
Series Model	RBE870
Model Difference	Refer to Note
Status of EUT	Engineering sample
Power Supply Rating	Refer to Note as below
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	802.11a: up to 54 Mbps 802.11ax: up to 4803.9 Mbps 802.11be: up to 11528 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): 25 802.11ax (HE80), 802.11be (EHT80): 12 802.11ax (HE160), 802.11be (EHT160): 6 802.11be (EHT320): 5
Output Power	6.115 GHz ~ 6.415 GHz : EIRP: 988.553 mW (29.95 dBm) 6.425 GHz ~ 6.525 GHz : EIRP: 977.237 mW (29.90 dBm) 6.535 GHz ~ 6.865 GHz : EIRP: 986.279 mW (29.94 dBm) 6.875 GHz ~ 7.115 GHz : EIRP: 831.764 mW (29.20 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.

Brand	Product	Model	Difference
NETGEAR	Orbi 11BE WiFi 7 Tri-band Router	RBE871	DFS Function: Master With 10G Internet port*1, Lan port*4
	Orbi 11BE WiFi 7 Tri-band Satellite	RBE870	DFS Function: Master & Client (Easy Mesh) With Lan port*4

2. The EUT uses following accessories.

Item	Brand	Model	Part Number	Specification
AC Adapter 1	NETGEAR	2AEJ042FC-VII	332-11727-01 (white) & 332-11726-01 (black)	AC Input : 100-240V 50-60Hz 1.3A DC Output : 12.0V 3.5A 42.0W DC Output Cable : 1.83M / 0core Plug : US/EU/UK/AU Manufacturer : CWT
AC Adapter 2	NETGEAR	ADS-45FIC-12N 12042E	332-11729-01 (white) & 332-11728-01 (black)	AC Input : 100-240V 50/60Hz 1.5A DC Output : 12.0V 3.5A 42.0W DC Output Cable : 1.82M / 0core Plug : US/EU/UK/AU Manufacturer : HNR
AC Adapter 3	NETGEAR	AD2150F10	332-11093-02	AC Input : 100-120V 50/60Hz 1.0A DC Output : 12.0V 3.5A DC Output Cable : 1.8M / 0core Plug : US Manufacturer : PI ELETRONICS (VIETNAM) COMPANY LIMITED
AC Adapter 4	NETGEAR	AD2150M20	332-11099-06	AC Input : 100-240V 50/60Hz 1.0A DC Output : 12.0V 3.5A 42.0W DC Output Cable : 1.8M / 0core Plug : US/EU/AU Manufacturer : PI ELETRONICS (VIETNAM) COMPANY LIMITED
Ethernet Cable	NETGEAR	N/A	-	Signal Line : 0.95M

3. 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.	Antenna Type	Connector Type	Antenna Gain (dBi) / Frequency (MHz)								
			5925	6105	6250	6400	6550	6700	6850	7000	7125
Chain 0	Dipole	ipex(MHF)	1.94	2.24	2.35	2.62	2.35	2.20	2.02	2.35	2.46
Chain 1	Dipole	ipex(MHF)	2.82	2.63	2.54	2.36	2.23	2.33	2.88	3.28	3.78
Chain 2	Dipole	ipex(MHF)	1.58	1.72	1.58	1.45	1.55	1.92	2.01	2.46	2.39
Chain 3	Dipole	ipex(MHF)	2.32	2.66	2.41	2.04	1.78	2.05	1.90	2.27	2.38

* Detail antenna specification please refer to antenna datasheet and/or antenna measurement report.

2. The EUT incorporates a MIMO function:

6 GHz Band			
Modulation Mode	Beamforming Mode	Tx & Rx Configuration	
802.11a	Not Support	4TX	4RX
802.11ax (HE20)	Support	4TX (Nss 1 / Nss 2 / Nss 3 / Nss 4)	4RX
802.11ax (HE40)	Support	4TX (Nss 1 / Nss 2 / Nss 3 / Nss 4)	4RX
802.11ax (HE80)	Support	4TX (Nss 1 / Nss 2 / Nss 3 / Nss 4)	4RX
802.11ax (HE160)	Support	4TX (Nss 1 / Nss 2 / Nss 3 / Nss 4)	4RX
802.11be (EHT20)	Support	4TX (Nss 1 / Nss 2 / Nss 3 / Nss 4)	4RX
802.11be (EHT40)	Support	4TX (Nss 1 / Nss 2 / Nss 3 / Nss 4)	4RX
802.11be (EHT80)	Support	4TX (Nss 1 / Nss 2 / Nss 3 / Nss 4)	4RX
802.11be (EHT160)	Support	4TX (Nss 1 / Nss 2 / Nss 3 / Nss 4)	4RX
802.11be (EHT320)	Support	4TX (Nss 1 / Nss 2 / Nss 3 / Nss 4)	4RX

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. The modulation and bandwidth are similar for 802.11ax mode for 20 MHz (40 MHz, 80 MHz, 160MHz), and 802.11be mode for 20 MHz (40 MHz, 80 MHz, 160MHz, 320MHz), therefore the manufacturer will control the power for 802.11ax mode is the same as the 802.11be or lower than it and investigated worst case to representative mode in test report.
4. The EUT device modulation technique OFDMA does not support partial RUs (resource units) and channel puncturing/bandwidth reduction mechanisms.

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

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

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
35	6125 MHz	43	6165 MHz	51	6205 MHz	59	6245 MHz
67	6285 MHz	75	6325 MHz	83	6365 MHz	91	6405 MHz

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

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
39	6145 MHz	55	6225 MHz	71	6305 MHz	87	6385 MHz

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

Channel	Frequency	Channel	Frequency
47	6185 MHz	79	6345 MHz

1 channel is provided for 802.11be (EHT320):

Channel	Frequency
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:	Pre-scan AC Adapter 1 / AC Adapter 2 / AC Adapter 3 / AC Adapter 4 and find the worst case as a representative test condition.
Worst Case:	1. AC Adapter Worst Condition: AC Adapter 1 2. The EUT is usually used standing that and was therefore chosen for Unwanted Emissions.

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 / 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(4T1S) / Beamforming(4T4S)	33, 61, 93, 97, 105, 113, 117, 149, 181, 185, 209, 229, 233	BPSK	MCS0
		802.11be (EHT40)	Beamforming(4T1S) / Beamforming(4T4S)	35, 59, 91, 99, 107, 115, 123, 155, 179, 187, 211, 227	BPSK	MCS0
		802.11be (EHT80)	Beamforming(4T1S) / Beamforming(4T4S)	39, 55, 87, 103, 119, 135, 151, 167, 183, 199, 215	BPSK	MCS0
		802.11be (EHT160)	Beamforming(4T1S) / Beamforming(4T4S)	47, 79, 111, 143, 175, 207	BPSK	MCS0
		802.11be (EHT320)	Beamforming(4T1S) / Beamforming(4T4S)	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(4T1S) / Beamforming(4T4S)	33, 61, 93, 97, 105, 113, 117, 149, 181, 185, 209, 229, 233	BPSK	MCS0
		802.11be (EHT40)	Beamforming(4T1S) / Beamforming(4T4S)	35, 59, 91, 99, 107, 115, 123, 155, 179, 187, 211, 227	BPSK	MCS0
		802.11be (EHT80)	Beamforming(4T1S) / Beamforming(4T4S)	39, 55, 87, 103, 119, 135, 151, 167, 183, 199, 215	BPSK	MCS0
		802.11be (EHT160)	Beamforming(4T1S) / Beamforming(4T4S)	47, 79, 111, 143, 175, 207	BPSK	MCS0
		802.11be (EHT320)	Beamforming(4T1S) / Beamforming(4T4S)	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(4T1S) / Beamforming(4T4S)	33, 61, 93, 97, 105, 113, 117, 149, 181, 185, 209, 229, 233	BPSK	MCS0
		802.11be (EHT40)	Beamforming(4T1S) / Beamforming(4T4S)	35, 59, 91, 99, 107, 115, 123, 155, 179, 187, 211, 227	BPSK	MCS0
		802.11be (EHT80)	Beamforming(4T1S) / Beamforming(4T4S)	39, 55, 87, 103, 119, 135, 151, 167, 183, 199, 215	BPSK	MCS0
		802.11be (EHT160)	Beamforming(4T1S) / Beamforming(4T4S)	47, 79, 111, 143, 175, 207	BPSK	MCS0
		802.11be (EHT320)	Beamforming(4T1S) / Beamforming(4T4S)	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(4T1S) / Beamforming(4T4S)	33, 61, 93, 97, 105, 113, 117, 149, 181, 185, 209, 229, 233	BPSK	MCS0
		802.11be (EHT40)	Beamforming(4T1S) / Beamforming(4T4S)	35, 59, 91, 99, 107, 115, 123, 155, 179, 187, 211, 227	BPSK	MCS0
		802.11be (EHT80)	Beamforming(4T1S) / Beamforming(4T4S)	39, 55, 87, 103, 119, 135, 151, 167, 183, 199, 215	BPSK	MCS0
		802.11be (EHT160)	Beamforming(4T1S) / Beamforming(4T4S)	47, 79, 111, 143, 175, 207	BPSK	MCS0
		802.11be (EHT320)	Beamforming(4T1S) / Beamforming(4T4S)	63, 95, 127, 159, 191	BPSK	MCS0
Contention-based Protocol	A	802.11be (EHT20)	Beamforming(4T1S) / Beamforming(4T4S)	33, 97, 181, 193	BPSK	MCS0
		802.11be (EHT320)	Beamforming(4T1S) / Beamforming(4T4S)	63, 95, 159, 191	BPSK	MCS0

Test Item	EUT Configure Mode	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
AC Power Conducted Emissions	A, B	802.11be (EHT320)	Beamforming(4T4S)	63	BPSK	MCS0
Unwanted Emissions below 1 GHz	A, B	802.11be (EHT320)	Beamforming(4T4S)	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(4T1S) / Beamforming(4T4S)	33, 61, 93, 97, 105, 113, 117, 149, 181, 185, 209, 229, 233	BPSK	MCS0
		802.11be (EHT40)	Beamforming(4T1S) / Beamforming(4T4S)	35, 59, 91, 99, 107, 115, 123, 155, 179, 187, 211, 227	BPSK	MCS0
		802.11be (EHT80)	Beamforming(4T1S) / Beamforming(4T4S)	39, 55, 87, 103, 119, 135, 151, 167, 183, 199, 215	BPSK	MCS0
		802.11be (EHT160)	Beamforming(4T1S) / Beamforming(4T4S)	47, 79, 111, 143, 175, 207	BPSK	MCS0
		802.11be (EHT320)	Beamforming(4T1S) / Beamforming(4T4S)	63, 95, 127, 159, 191	BPSK	MCS0
EUT Configure Mode:	A	EUT (Model: RBE871) powered by Adapter 1				
	B	EUT (Model: RBE870) powered by Adapter 1				

3.5 Duty Cycle of Test Signal

NSS1

802.11a: Duty cycle = 1.985 ms / 1.99 ms x 100% = 99.7%

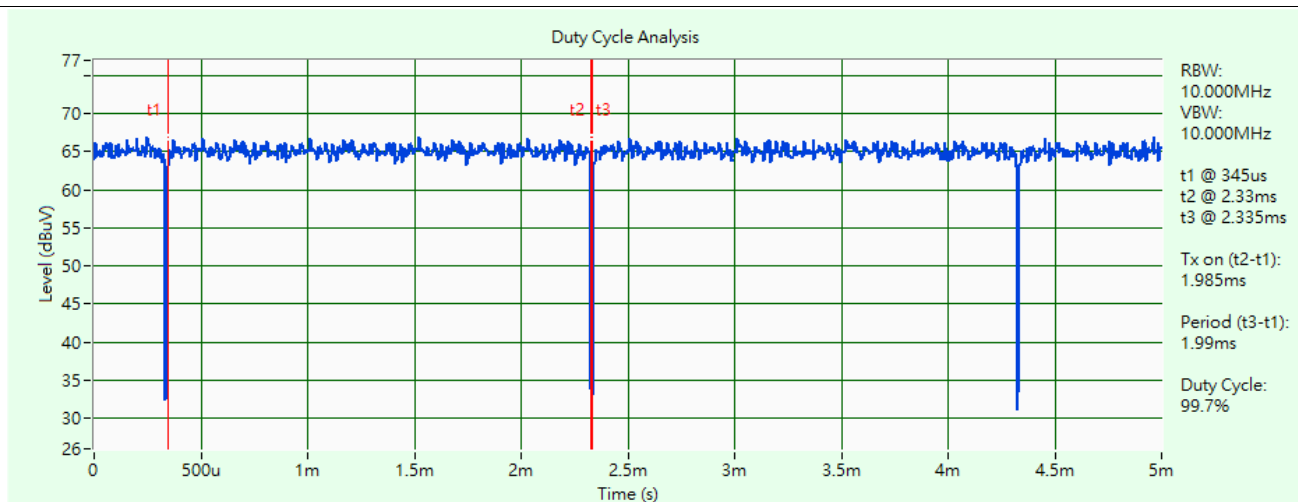
802.11be (EHT20) Beamforming: Duty cycle = 100 ms / 100 ms x 100% = 100.0%

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

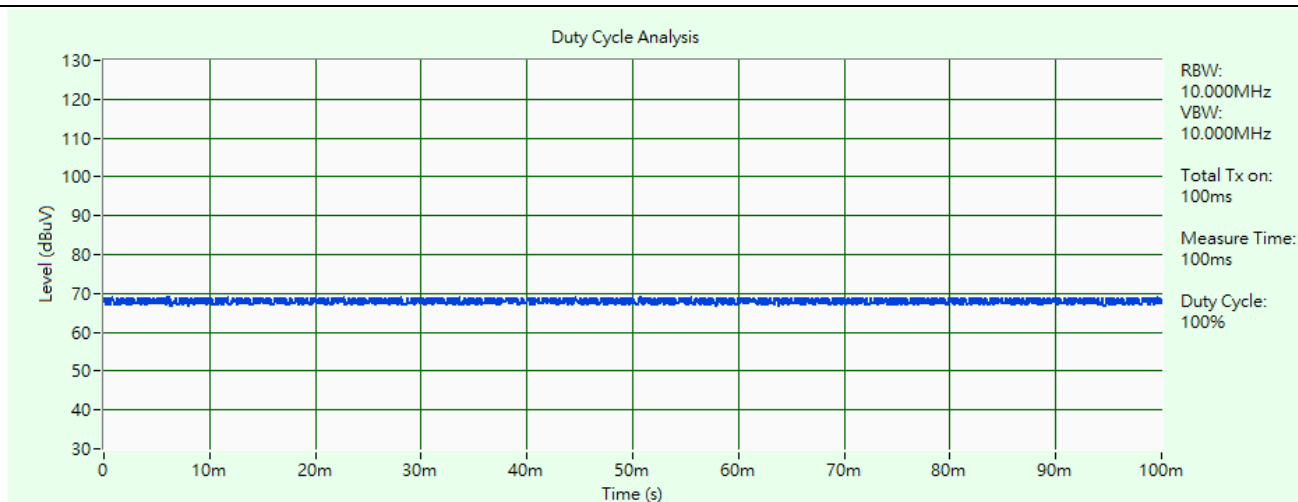
802.11be (EHT80) Beamforming: Duty cycle = 100 ms / 100 ms x 100% = 100.0%

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

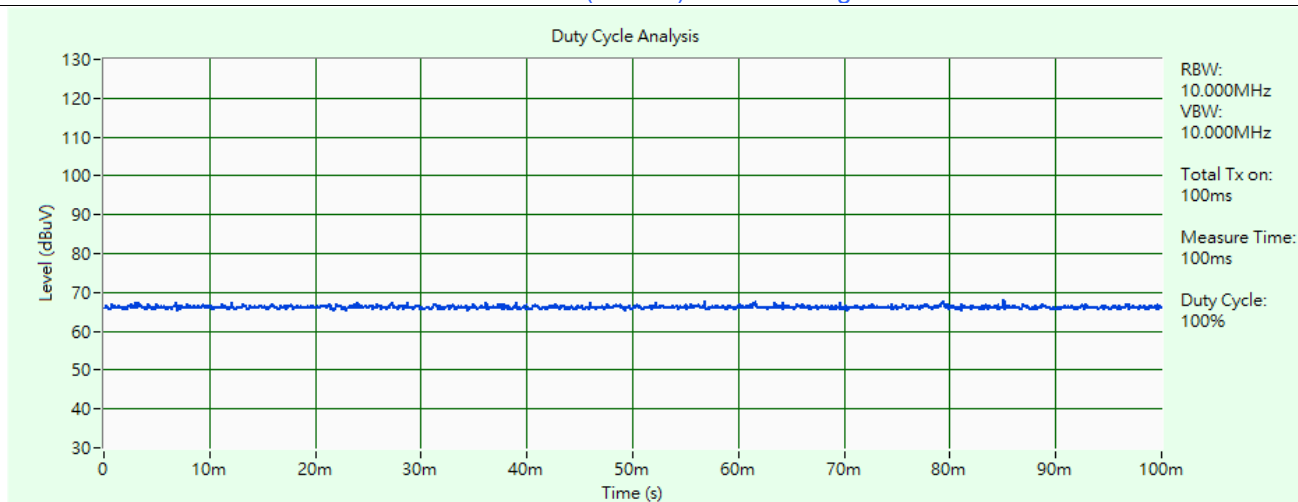
802.11be (EHT320) Beamforming: Duty cycle = 100 ms / 100 ms x 100% = 100.0%



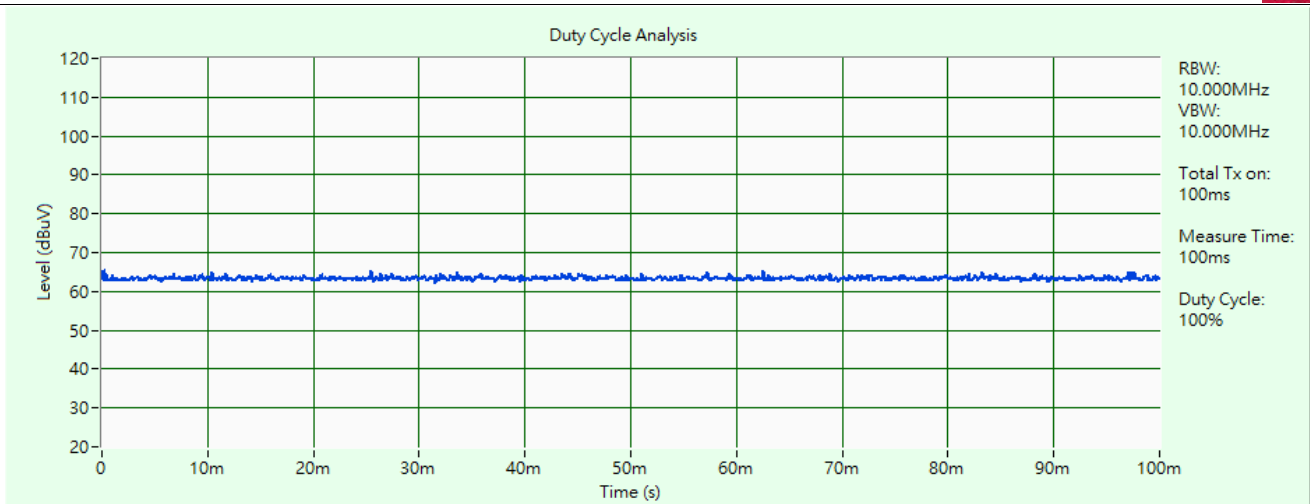
802.11a



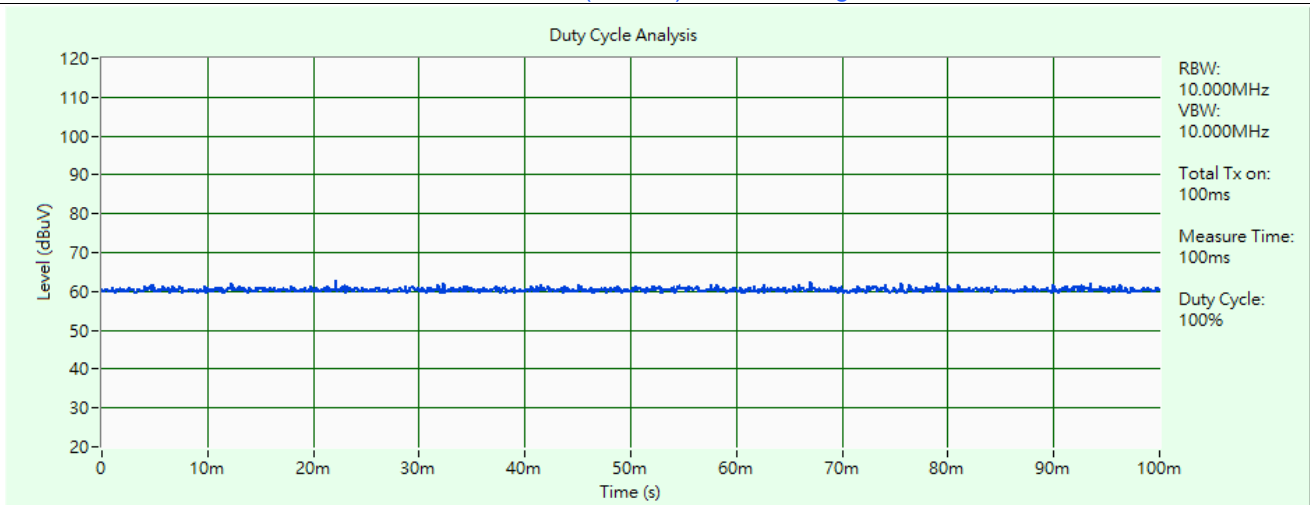
802.11be (EHT20) Beamforming



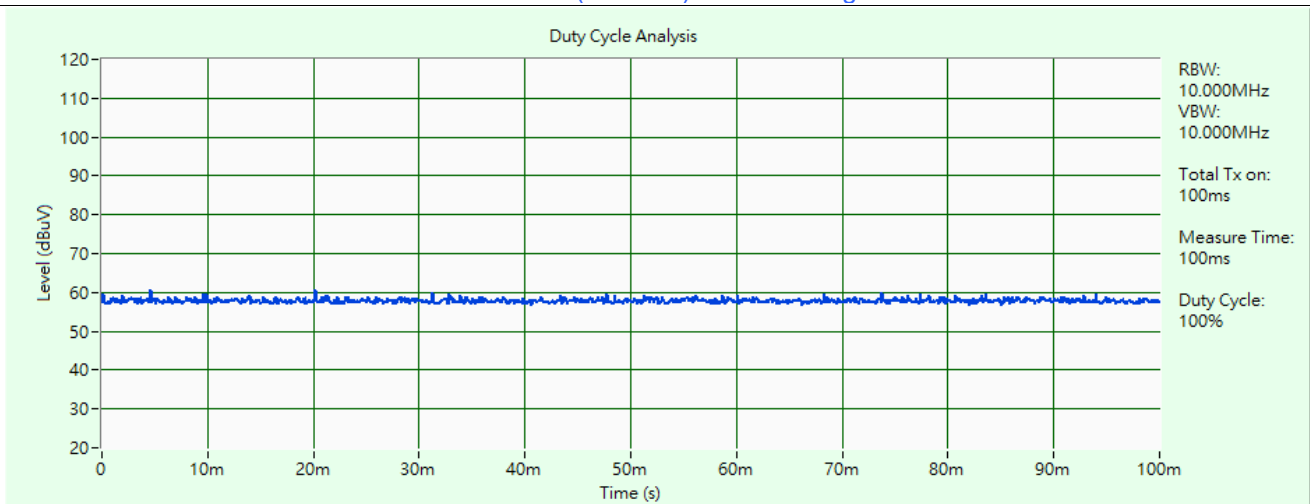
802.11be (EHT40) Beamforming



802.11be (EHT80) Beamforming



802.11be (EHT160) Beamforming



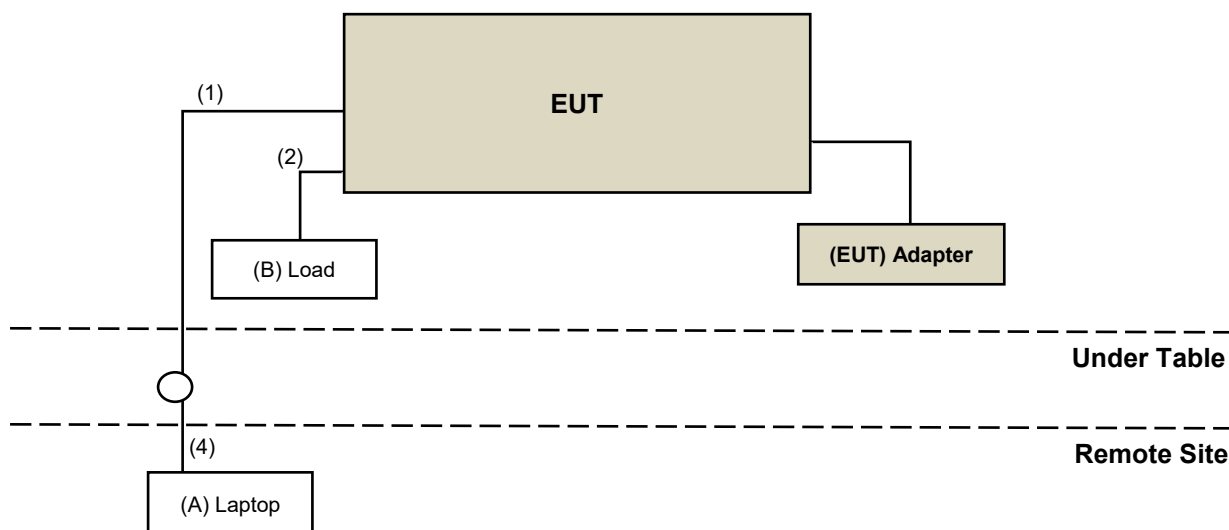
802.11be (EHT320) Beamforming

3.6 Test Program Used and Operation Descriptions

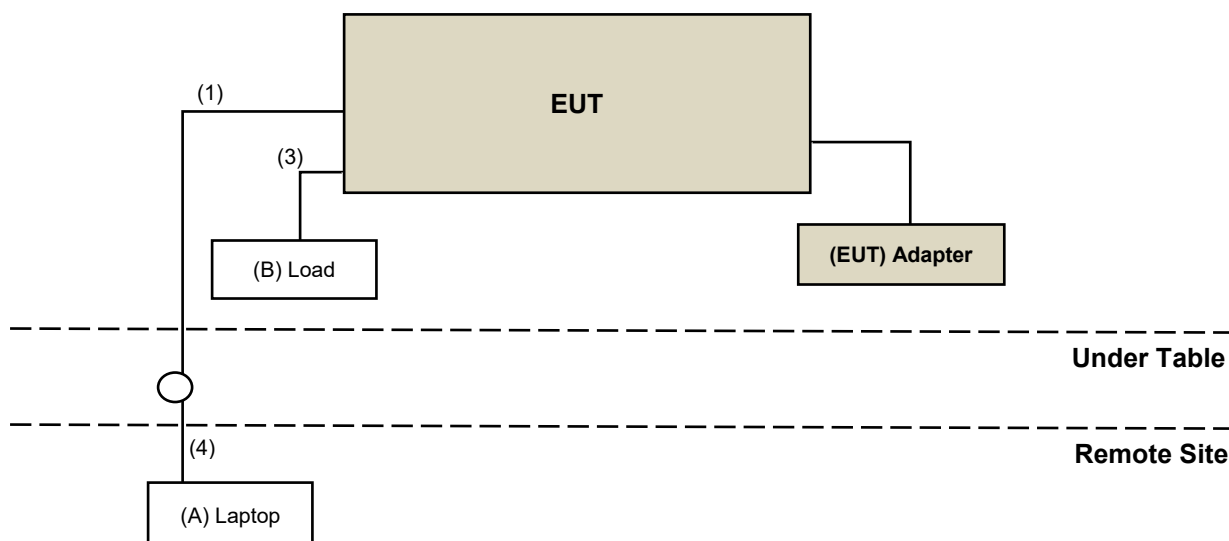
Controlling software QSPR Version 5.0-00202 has been activated to set the EUT under transmission condition continuously at specific channel frequency.

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	Laptop	DELL	E5430	2RL3YW1	N/A	Provided by Lab
B	Load	N/A	N/A	N/A	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	RJ-45 Cable	1	0.95	N	0	Accessory of EUT
2	RJ-45 Cable	4	1.5	N	0	Provided by Lab
3	RJ-45 Cable	3	1.5	N	0	Provided by Lab
4	RJ-45 Cable	1	10	N	0	Provided by Lab

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
EMI Test Receiver R&S	ESR3	102782	2023/12/7	2024/12/6
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-408	2023/11/12	2024/11/11
Preamplifier Keysight	83017A	MY53270295	2024/5/1	2025/4/30
RF Coaxial Cable HUBER+SUHNER	SUCOFLEX 104	Cable-CH4-03(250724)	2024/5/1	2025/4/30
		MY 13380+295012/04	2024/5/1	2025/4/30
Signal & Spectrum Analyzer R&S	FSW43	101582	2024/4/12	2025/4/11
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	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.
2. Tested Date: 2024/9/20

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
Signal & Spectrum Analyzer R&S	FSV3044	101105	2024/2/27	2025/2/26
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2024/9/20

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
EXA Signal Analyzer Agilent	N9010A	MY52220207	2023/12/28	2024/12/27
MXG Vector Signal Generator Agilent	N5182B	MY53050430	2023/12/4	2024/12/3
MXG Vector Signal Generator Keysight	N5182BU	MY59360189	2023/12/4	2024/12/3
Power Divider Woken	0120A02058001M	DCMD33WIK3	2024/4/29	2025/4/28
		DCMD33WIK7	2024/4/29	2025/4/28

Notes:

1. The test was performed in Adaptivity room.
2. Tested Date: 2024/8/19 ~ 2024/8/21

4.7 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance HUBER+SUHNER	E1-011315	13	2023/11/22	2024/11/21
50 ohm terminal resistance	E1-011279	04	2023/11/22	2024/11/21
	E1-011280	05	2023/11/22	2024/11/21
DC-LISN Schwarzbeck	NNBM 8126G	8126G-069	2023/11/7	2024/11/6
EMI Test Receiver R&S	ESCI	100613	2023/12/4	2024/12/3
Fixed Attenuator Mini-Circuits	HAT-10+	PAD-COND1-01	2024/1/6	2025/1/5
LISN R&S	ENV216	101826	2024/3/25	2025/3/24
	ESH3-Z5	100116	2024/2/21	2025/2/20
RF Coaxial Cable Woken	5D-FB	Cable-cond1-01	2024/1/6	2025/1/5
Software BVADT	BVADT_Conf_ V7.4.1.0	N/A	N/A	N/A
V-LISN Schwarzbeck	NNBL 8226-2	8226-142	2024/8/28	2025/8/27

Notes:

1. The test was performed in HY - Conduction 1.
2. Tested Date: 2024/9/25

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	2023/10/13	2024/10/12
EMI Test Receiver R&S	ESR3	102782	2023/12/7	2024/12/6
Loop Antenna TESEQ	HLA 6121	45745	2024/8/21	2025/8/20
Preamplifier Agilent	8447D	2944A10631	2024/5/1	2025/4/30
Preamplifier EMCI	EMC001340	980201	2024/9/24	2025/9/23
RF Coaxial Cable Woken	8D-FB	Cable-CH4-01	2024/7/6	2025/7/5
Signal & Spectrum Analyzer R&S	FSW43	101582	2024/4/12	2025/4/11
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	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.
2. Tested Date: 2024/9/24 ~ 2024/9/25

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	2023/12/7	2024/12/6
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-408	2023/11/12	2024/11/11
	BBHA 9170	9170-480	2023/11/12	2024/11/11
		BBHA9170241	2023/10/16	2024/10/15
		BBHA9170243	2023/11/12	2024/11/11
Preamplifier EMCI	EMC 184045	980116	2023/9/27 2024/9/24	2024/9/26 2025/9/23
Preamplifier Keysight	83017A	MY53270295	2024/5/1	2025/4/30
RF Coaxial Cable EMCI	EMC102-KM-KM-600	150928	2024/7/6	2025/7/5
	EMC102-KM-KM-3000	150929	2024/7/6	2025/7/5
RF Coaxial Cable HUBER+SUHNER	SUCOFLEX 104	Cable-CH4-03(250724)	2024/5/1	2025/4/30
		MY 13380+295012/04	2024/5/1	2025/4/30
Signal & Spectrum Analyzer R&S	FSW43	101582	2024/4/12	2025/4/11
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	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.
2. Tested Date: 2024/9/9 ~ 2024/9/26

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

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)

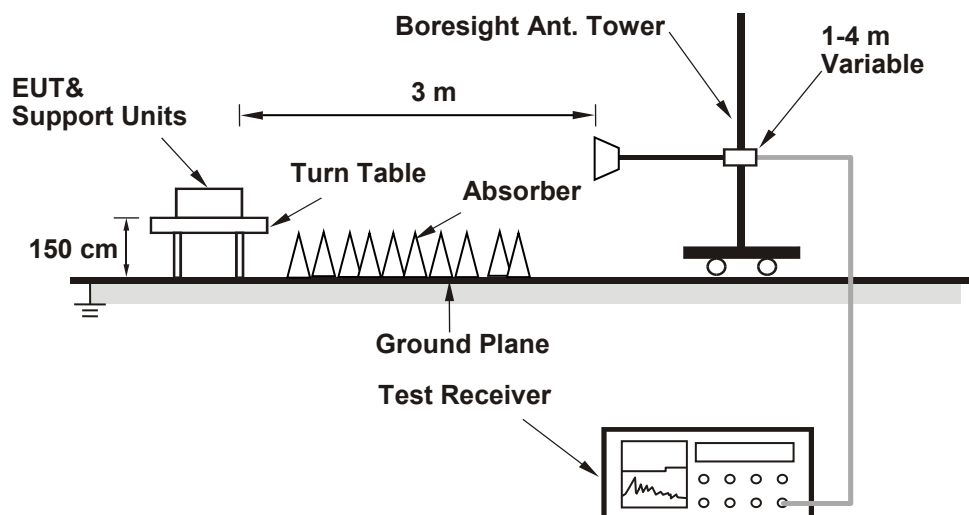
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

6 Test Arrangements

6.1 Maximum RF Output Power

6.1.1 Test Setup



6.1.2 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, $EIRP \text{ Value (dBm)} = \text{Field Strength Value (dBuV / m)} + \text{Correction Factor @ 3 m}$.
- $\text{Correction Factor (dB) @ 3 m} = 20\log(D) - 104.77 = -95.23 \text{ dB}$; where D is the measurement distance @3 m.

Spectrum analyzer setting as below:

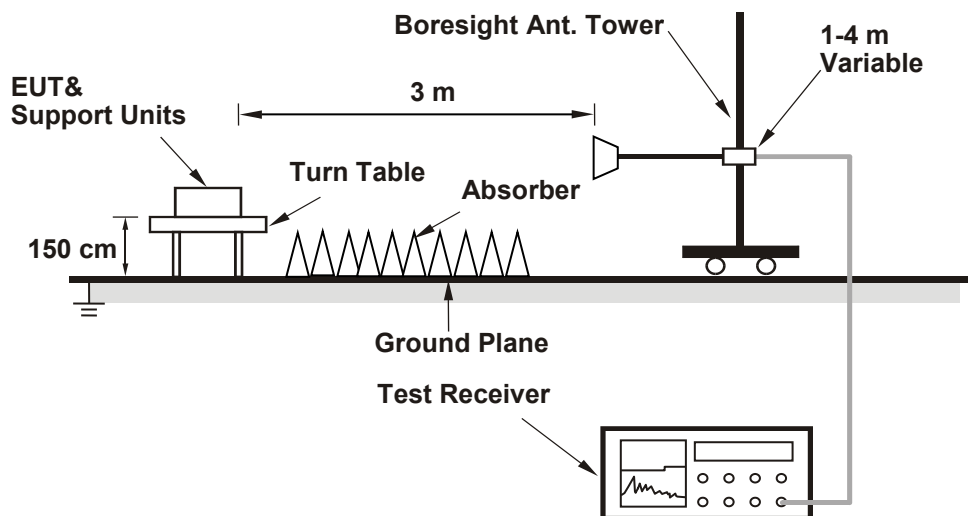
Method SA-1

- Set span to encompass the entire emission bandwidth (EBW) 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

Note: When measuring power, use compute power by integrating the spectrum across the 26 dB EBW or 99% OBW of the signal using the instrument's band power measurement function, with band limits set equal to the EBW or 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 26 dB EBW or 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

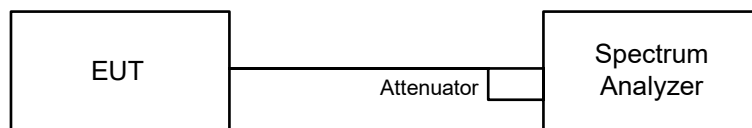
Spectrum analyzer setting as below:

Method SA-1

- Set span to encompass the entire emission bandwidth (EBW) 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

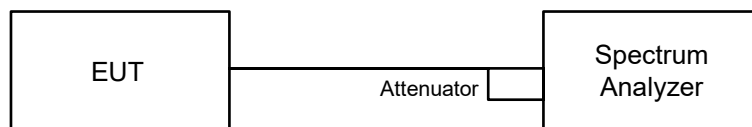


6.3.2 Test Procedure

- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- 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 analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

6.4 In-Band Emission Mask

6.4.1 Test Setup

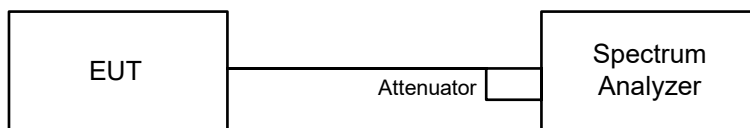


6.4.2 Test Procedure

- Connect output of the antenna port to a spectrum analyzer and adjust appropriate attenuation.
- Measure the 26 dB EBW using the test procedure 12.4.1 of ANSI C63.10-2013. (Determine the channel edge.)
- Measure the power spectral density (for emissions mask reference) using the following procedure:
 - Set the span to encompass the entire 26 dB EBW of the signal.
 - Set RBW = same RBW used for 26 dB EBW measurement.
 - Set VBW ≥ [3 X RBW].
 - Number of points in sweep ≥ [2 X span / RBW].
 - Sweep time = auto.
 - Detector = RMS (i.e., power averaging).
 - Trace average at least 100 traces in power averaging (rms) mode.
 - Use the peak search function on the instrument to find the peak of the spectrum.
- 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:
 - 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.)
 - Suppressed by 28 dB at one channel bandwidth from the channel center.
 - Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.
- Adjust the span to encompass the entire mask as necessary and clear trace.
- Trace average at least 100 traces in power averaging (rms) mode.
- 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

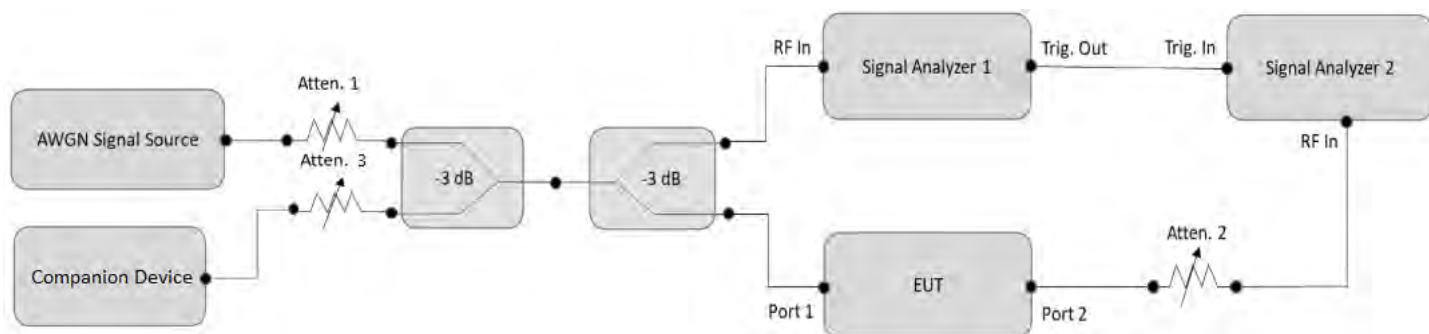


6.5.2 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to Sampling. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean power of a given emission.

6.6 Contention-based Protocol

6.6.1 Test Setup



6.6.2 Test Procedure

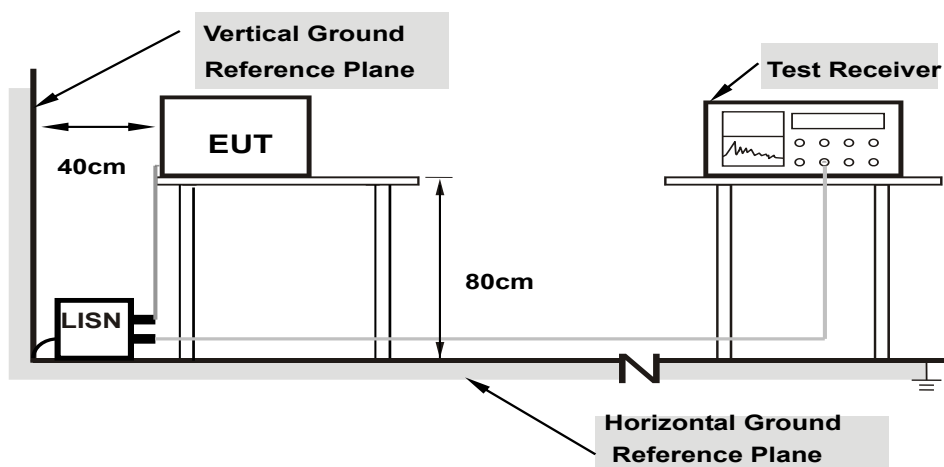
- Set the signal analyzer center frequency to the nominal EUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT. Connect the output port of the EUT to the signal analyzer 2. Ensure that the attenuator 2 provides enough attenuation 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
$BW_{Inc} < BW_{EUT} \leq 2 \times BW_{Inc}$	Once	Contained within BW_{EUT}
$2 \times BW_{Inc} < BW_{EUT} \leq 4 \times BW_{Inc}$	Twice. (Incumbent transmission is contained within BW_{EUT})	Closely to the lower edge and upper edge of the EUT Channel
$BW_{EUT} > 4 \times BW_{Inc}$	Three times	Closely to the lower edge ,in the middle and upper edge of the EUT Channel

- 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

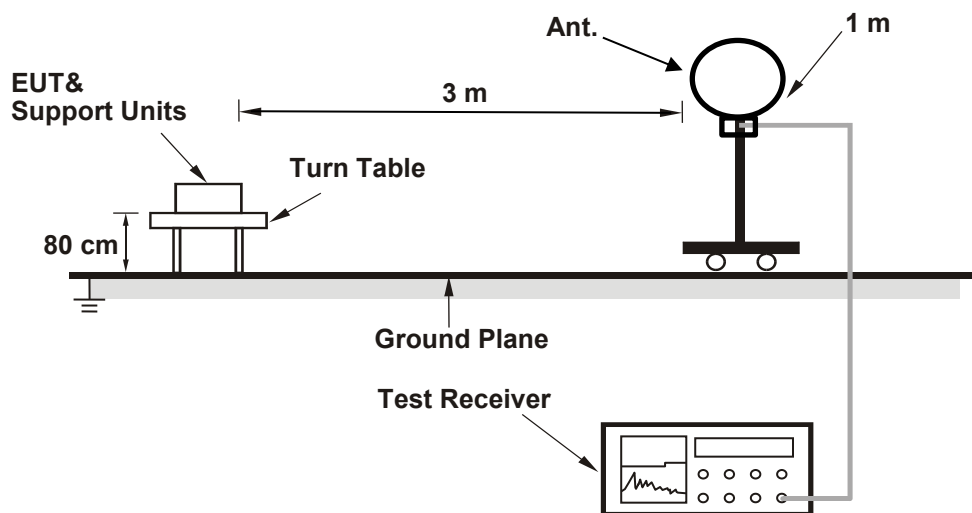
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The 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.

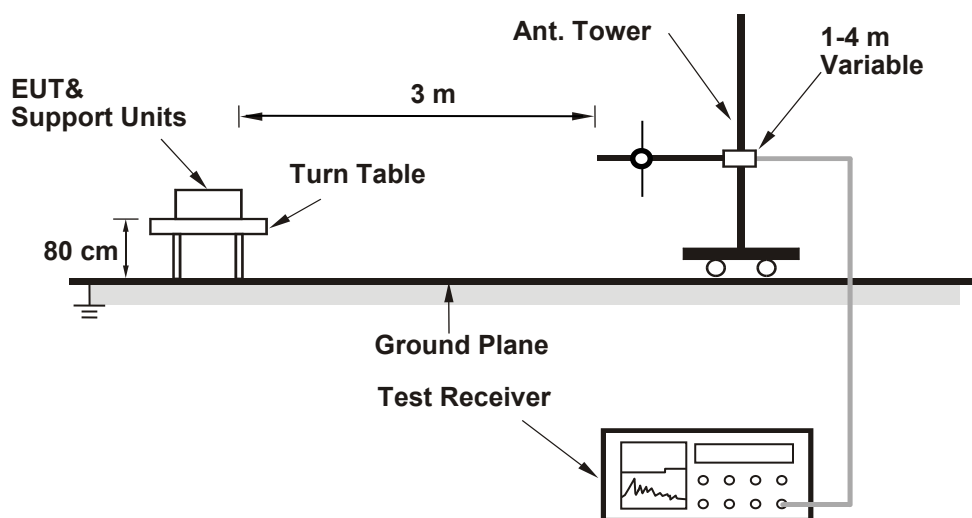
6.8 Unwanted Emissions below 1 GHz

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, 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

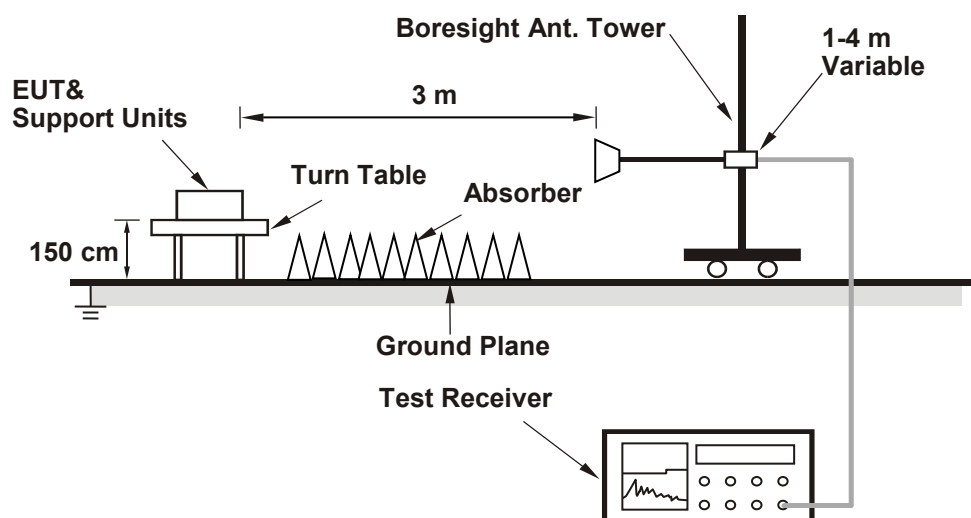
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the 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 detect function and specified bandwidth with maximum hold mode when the test frequency is below 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.
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:	Gary Lin
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NSS1

802.11a

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
33	6115	109.95	-95.23	29.648	14.72	30	Pass
61	6255	109.88	-95.23	29.174	14.65	30	Pass
93	6415	109.55	-95.23	27.04	14.32	30	Pass
97	6435	109.45	-95.23	26.424	14.22	30	Pass
105	6475	109.37	-95.23	25.942	14.14	30	Pass
113	6515	108.76	-95.23	22.542	13.53	30	Pass
117	6535	109.09	-95.23	24.322	13.86	30	Pass
149	6695	108.98	-95.23	23.714	13.75	30	Pass
181	6855	109.15	-95.23	24.66	13.92	30	Pass
185	6875	109.71	-95.23	28.054	14.48	30	Pass
209	6995	109.92	-95.23	29.444	14.69	30	Pass
229	7095	109.94	-95.23	29.58	14.71	30	Pass
233	7115	108.14	-95.23	19.543	12.91	30	Pass

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	113.97	-95.23	74.817	18.74	30	Pass
61	6255	113.61	-95.23	68.865	18.38	30	Pass
93	6415	113.40	-95.23	65.615	18.17	30	Pass
97	6435	113.28	-95.23	63.826	18.05	30	Pass
105	6475	113.47	-95.23	66.681	18.24	30	Pass
113	6515	113.56	-95.23	68.077	18.33	30	Pass
117	6535	113.32	-95.23	64.417	18.09	30	Pass
149	6695	113.05	-95.23	60.534	17.82	30	Pass
181	6855	113.14	-95.23	61.802	17.91	30	Pass
185	6875	113.47	-95.23	66.681	18.24	30	Pass
209	6995	113.54	-95.23	67.764	18.31	30	Pass
229	7095	113.40	-95.23	65.615	18.17	30	Pass
233	7115	104.71	-95.23	8.872	9.48	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	117.20	-95.23	157.398	21.97	30	Pass
59	6245	116.31	-95.23	128.233	21.08	30	Pass
91	6405	116.58	-95.23	136.458	21.35	30	Pass
99	6445	116.96	-95.23	148.936	21.73	30	Pass
107	6485	117.18	-95.23	156.675	21.95	30	Pass
115	6525	116.52	-95.23	134.586	21.29	30	Pass
123	6565	116.77	-95.23	142.561	21.54	30	Pass
155	6725	116.61	-95.23	137.404	21.38	30	Pass
179	6845	116.19	-95.23	124.738	20.96	30	Pass
187	6885	116.22	-95.23	125.603	20.99	30	Pass
211	7005	116.92	-95.23	147.571	21.69	30	Pass
227	7085	116.81	-95.23	143.88	21.58	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	119.42	-95.23	262.422	24.19	30	Pass
55	6225	119.04	-95.23	240.436	23.81	30	Pass
87	6385	119.35	-95.23	258.226	24.12	30	Pass
103	6465	119.36	-95.23	258.821	24.13	30	Pass
119	6545	119.19	-95.23	248.886	23.96	30	Pass
135	6625	119.29	-95.23	254.683	24.06	30	Pass
151	6705	119.29	-95.23	254.683	24.06	30	Pass
167	6785	119.15	-95.23	246.604	23.92	30	Pass
183	6865	118.93	-95.23	234.423	23.70	30	Pass
199	6945	119.21	-95.23	250.035	23.98	30	Pass
215	7025	119.03	-95.23	239.883	23.80	30	Pass

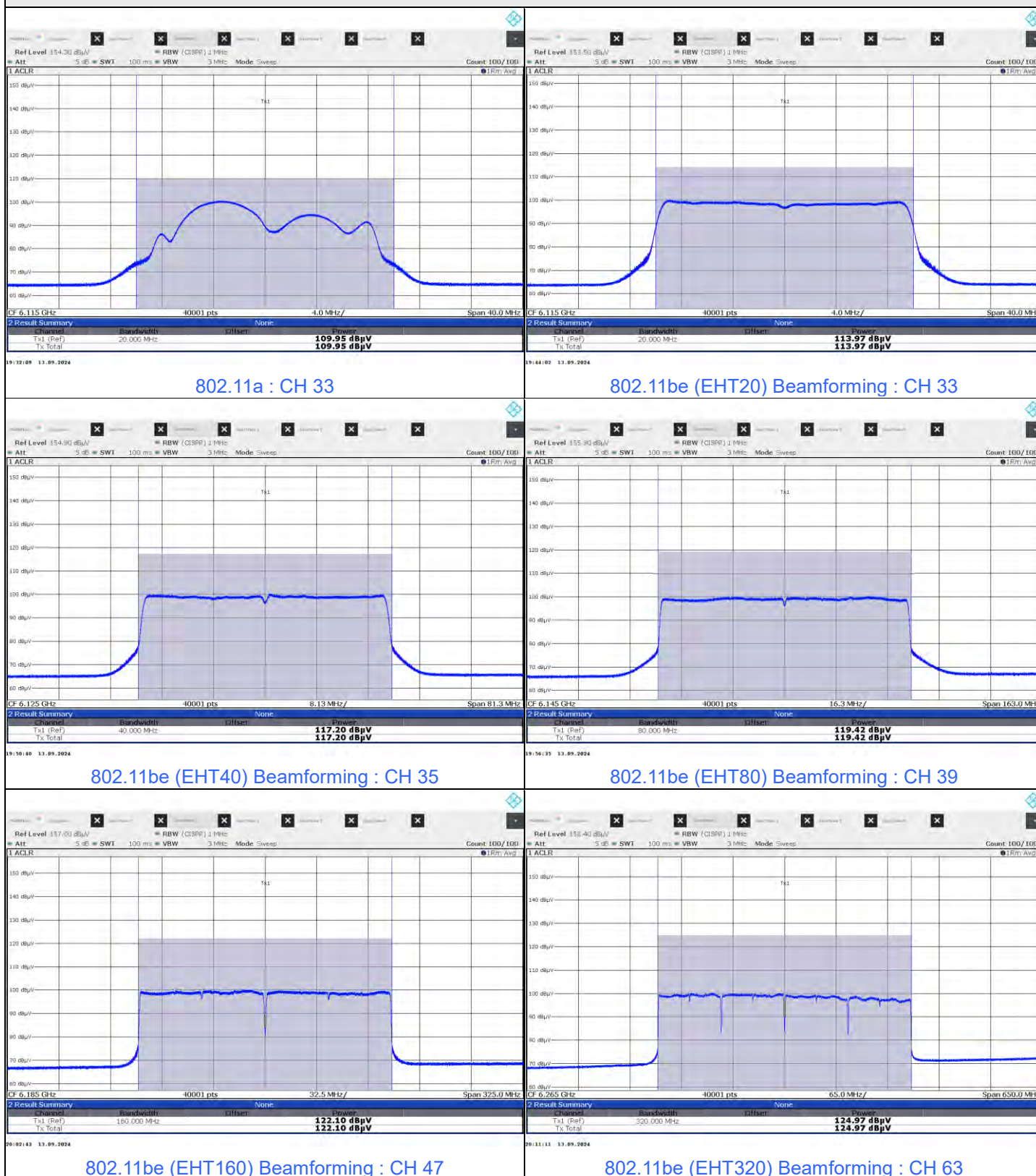
802.11be (EHT160) Beamforming

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
47	6185	122.10	-95.23	486.407	26.87	30	Pass
79	6345	121.53	-95.23	426.58	26.30	30	Pass
111	6505	122.08	-95.23	484.172	26.85	30	Pass
143	6665	121.82	-95.23	456.037	26.59	30	Pass
175	6825	121.83	-95.23	457.088	26.60	30	Pass
207	6985	120.98	-95.23	375.837	25.75	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	124.97	-95.23	941.89	29.74	30	Pass
95	6425	124.49	-95.23	843.335	29.26	30	Pass
127	6585	124.42	-95.23	829.851	29.19	30	Pass
159	6745	124.36	-95.23	818.465	29.13	30	Pass
191	6905	124.41	-95.23	827.942	29.18	30	Pass

Spectrum Plot of Maximum Value



NSS4

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	113.90	-95.23	73.621	18.67	30	Pass
61	6255	113.37	-95.23	65.163	18.14	30	Pass
93	6415	112.80	-95.23	57.148	17.57	30	Pass
97	6435	113.41	-95.23	65.766	18.18	30	Pass
105	6475	113.61	-95.23	68.865	18.38	30	Pass
113	6515	113.18	-95.23	62.373	17.95	30	Pass
117	6535	113.10	-95.23	61.235	17.87	30	Pass
149	6695	113.04	-95.23	60.395	17.81	30	Pass
181	6855	113.42	-95.23	65.917	18.19	30	Pass
185	6875	113.51	-95.23	67.298	18.28	30	Pass
209	6995	113.85	-95.23	72.778	18.62	30	Pass
229	7095	113.86	-95.23	72.946	18.63	30	Pass
233	7115	94.87	-95.23	0.9204	-0.36	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	117.20	-95.23	157.398	21.97	30	Pass
59	6245	116.88	-95.23	146.218	21.65	30	Pass
91	6405	117.15	-95.23	155.597	21.92	30	Pass
99	6445	117.18	-95.23	156.675	21.95	30	Pass
107	6485	117.19	-95.23	157.036	21.96	30	Pass
115	6525	116.53	-95.23	134.896	21.30	30	Pass
123	6565	116.65	-95.23	138.676	21.42	30	Pass
155	6725	116.54	-95.23	135.207	21.31	30	Pass
179	6845	116.56	-95.23	135.831	21.33	30	Pass
187	6885	116.01	-95.23	119.674	20.78	30	Pass
211	7005	116.59	-95.23	136.773	21.36	30	Pass
227	7085	116.50	-95.23	133.968	21.27	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	119.34	-95.23	257.632	24.11	30	Pass
55	6225	119.15	-95.23	246.604	23.92	30	Pass
87	6385	119.05	-95.23	240.991	23.82	30	Pass
103	6465	119.32	-95.23	256.448	24.09	30	Pass
119	6545	119.18	-95.23	248.313	23.95	30	Pass
135	6625	119.08	-95.23	242.661	23.85	30	Pass
151	6705	119.18	-95.23	248.313	23.95	30	Pass
167	6785	119.17	-95.23	247.742	23.94	30	Pass
183	6865	119.23	-95.23	251.189	24.00	30	Pass
199	6945	119.03	-95.23	239.883	23.80	30	Pass
215	7025	118.95	-95.23	235.505	23.72	30	Pass

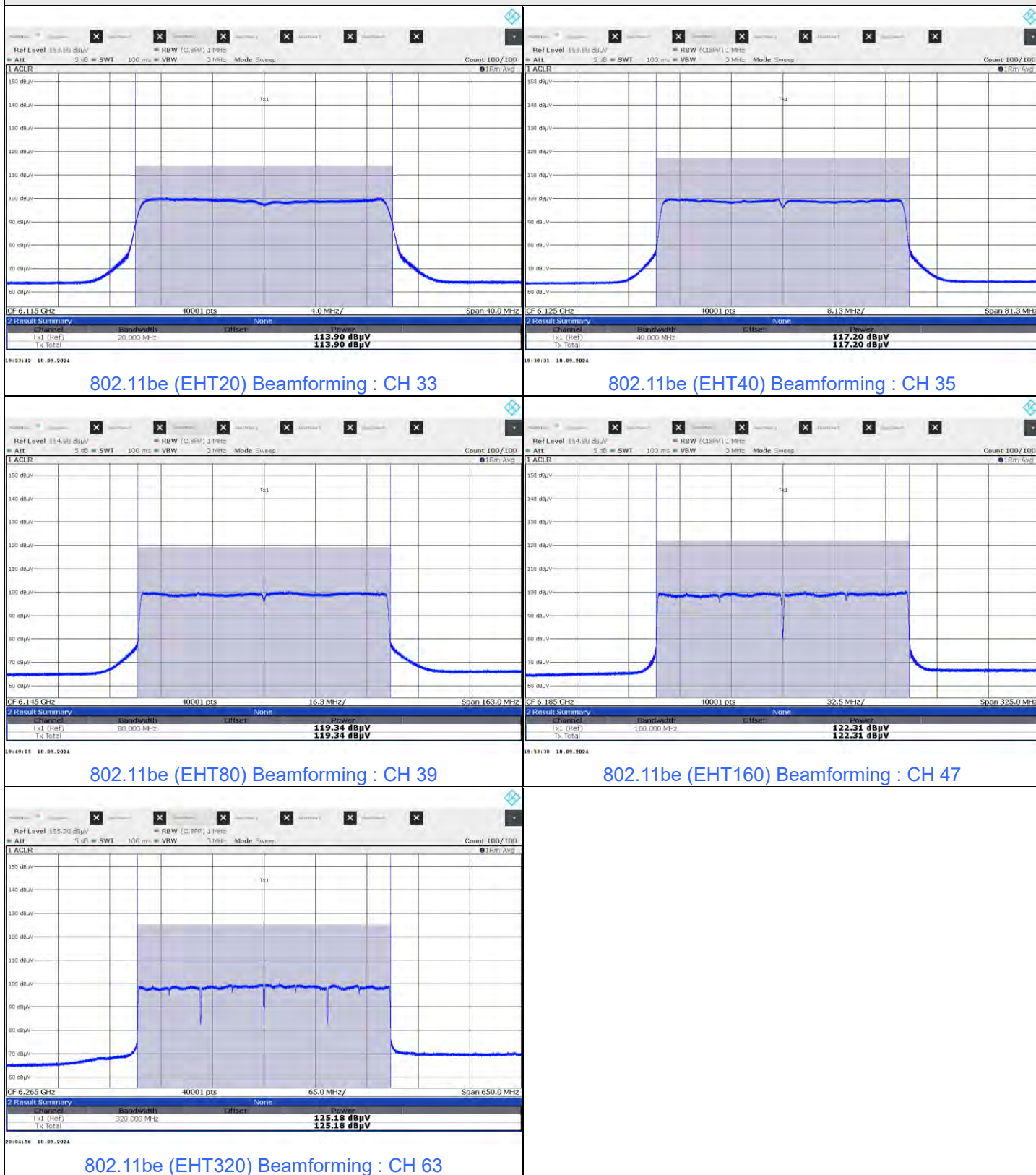
802.11be (EHT160) Beamforming

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
47	6185	122.31	-95.23	510.505	27.08	30	Pass
79	6345	122.28	-95.23	506.991	27.05	30	Pass
111	6505	122.24	-95.23	502.343	27.01	30	Pass
143	6665	122.26	-95.23	504.661	27.03	30	Pass
175	6825	121.56	-95.23	429.536	26.33	30	Pass
207	6985	120.99	-95.23	376.704	25.76	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	125.18	-95.23	988.553	29.95	30	Pass
95	6425	125.13	-95.23	977.237	29.90	30	Pass
127	6585	125.17	-95.23	986.279	29.94	30	Pass
159	6745	125.15	-95.23	981.748	29.92	30	Pass
191	6905	124.43	-95.23	831.764	29.20	30	Pass

Spectrum Plot of Maximum Value



7.2 Maximum Power Spectral Density

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Gary Lin
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NSS1

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	100.22	-95.23	4.99	5	Pass
61	6255	100.16	-95.23	4.93	5	Pass
93	6415	100.12	-95.23	4.89	5	Pass
97	6435	100.15	-95.23	4.92	5	Pass
105	6475	100.17	-95.23	4.94	5	Pass
113	6515	100.15	-95.23	4.92	5	Pass
117	6535	100.11	-95.23	4.88	5	Pass
149	6695	100.06	-95.23	4.83	5	Pass
181	6855	100.18	-95.23	4.95	5	Pass
185	6875	100.14	-95.23	4.91	5	Pass
209	6995	100.18	-95.23	4.95	5	Pass
229	7095	100.14	-95.23	4.91	5	Pass
233	7115	100.19	-95.23	4.96	5	Pass

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	100.08	-95.23	4.85	5	Pass
93	6415	100.15	-95.23	4.92	5	Pass
97	6435	100.14	-95.23	4.91	5	Pass
105	6475	100.08	-95.23	4.85	5	Pass
113	6515	100.14	-95.23	4.91	5	Pass
117	6535	100.18	-95.23	4.95	5	Pass
149	6695	100.11	-95.23	4.88	5	Pass
181	6855	100.18	-95.23	4.95	5	Pass
185	6875	100.16	-95.23	4.93	5	Pass
209	6995	100.19	-95.23	4.96	5	Pass
229	7095	100.19	-95.23	4.96	5	Pass
233	7115	89.75	-95.23	-5.48	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	100.22	-95.23	4.99	5	Pass
59	6245	100.08	-95.23	4.85	5	Pass
91	6405	100.14	-95.23	4.91	5	Pass
99	6445	100.11	-95.23	4.88	5	Pass
107	6485	100.13	-95.23	4.90	5	Pass
115	6525	100.13	-95.23	4.90	5	Pass
123	6565	100.12	-95.23	4.89	5	Pass
155	6725	100.13	-95.23	4.90	5	Pass
179	6845	100.19	-95.23	4.96	5	Pass
187	6885	100.15	-95.23	4.92	5	Pass
211	7005	100.12	-95.23	4.89	5	Pass
227	7085	100.14	-95.23	4.91	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	100.20	-95.23	4.97	5	Pass
55	6225	100.12	-95.23	4.89	5	Pass
87	6385	100.08	-95.23	4.85	5	Pass
103	6465	100.19	-95.23	4.96	5	Pass
119	6545	100.11	-95.23	4.88	5	Pass
135	6625	100.12	-95.23	4.89	5	Pass
151	6705	100.15	-95.23	4.92	5	Pass
167	6785	100.13	-95.23	4.90	5	Pass
183	6865	100.18	-95.23	4.95	5	Pass
199	6945	100.09	-95.23	4.86	5	Pass
215	7025	100.07	-95.23	4.84	5	Pass

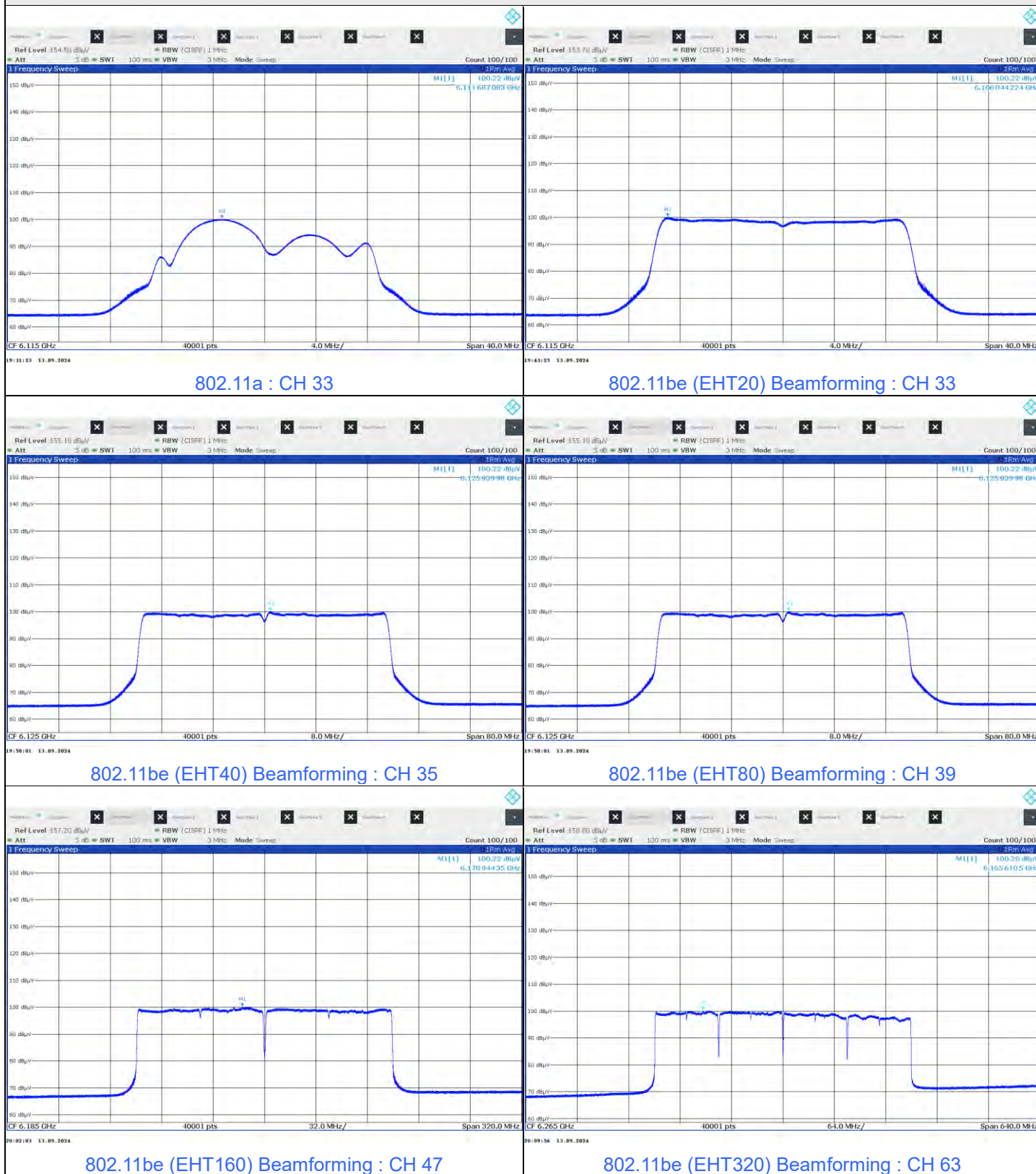
802.11be (EHT160) Beamforming

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
47	6185	100.22	-95.23	4.99	5	Pass
79	6345	100.18	-95.23	4.95	5	Pass
111	6505	100.20	-95.23	4.97	5	Pass
143	6665	100.19	-95.23	4.96	5	Pass
175	6825	100.15	-95.23	4.92	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	100.20	-95.23	4.97	5	Pass
95	6425	100.19	-95.23	4.96	5	Pass
127	6585	100.11	-95.23	4.88	5	Pass
159	6745	100.12	-95.23	4.89	5	Pass
191	6905	100.16	-95.23	4.93	5	Pass

Spectrum Plot of Maximum Value



NSS4

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	100.17	-95.23	4.94	5	Pass
97	6435	100.08	-95.23	4.85	5	Pass
105	6475	100.09	-95.23	4.86	5	Pass
113	6515	100.18	-95.23	4.95	5	Pass
117	6535	100.13	-95.23	4.90	5	Pass
149	6695	100.17	-95.23	4.94	5	Pass
181	6855	100.18	-95.23	4.95	5	Pass
185	6875	100.16	-95.23	4.93	5	Pass
209	6995	100.11	-95.23	4.88	5	Pass
229	7095	100.12	-95.23	4.89	5	Pass
233	7115	82.38	-95.23	-12.85	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	100.07	-95.23	4.84	5	Pass
91	6405	100.08	-95.23	4.85	5	Pass
99	6445	100.07	-95.23	4.84	5	Pass
107	6485	100.07	-95.23	4.84	5	Pass
115	6525	100.07	-95.23	4.84	5	Pass
123	6565	100.07	-95.23	4.84	5	Pass
155	6725	100.08	-95.23	4.85	5	Pass
179	6845	100.19	-95.23	4.96	5	Pass
187	6885	100.08	-95.23	4.85	5	Pass
211	7005	100.03	-95.23	4.80	5	Pass
227	7085	100.02	-95.23	4.79	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	100.20	-95.23	4.97	5	Pass
55	6225	100.06	-95.23	4.83	5	Pass
87	6385	100.18	-95.23	4.95	5	Pass
103	6465	100.06	-95.23	4.83	5	Pass
119	6545	99.99	-95.23	4.76	5	Pass
135	6625	100.01	-95.23	4.78	5	Pass
151	6705	99.99	-95.23	4.76	5	Pass
167	6785	99.97	-95.23	4.74	5	Pass
183	6865	100.07	-95.23	4.84	5	Pass
199	6945	100.17	-95.23	4.94	5	Pass
215	7025	100.16	-95.23	4.93	5	Pass

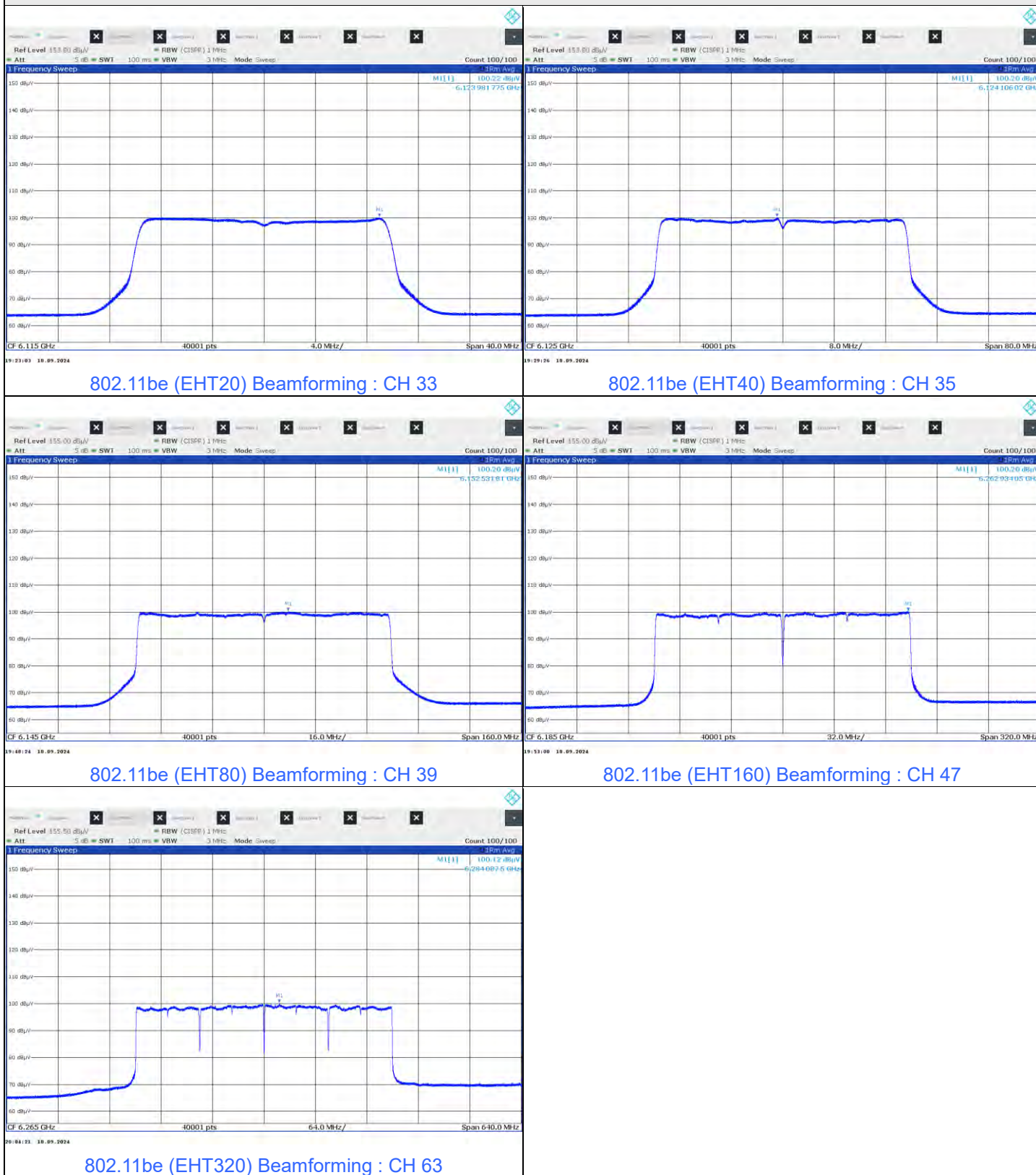
802.11be (EHT160) Beamforming

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	100.08	-95.23	4.85	5	Pass
111	6505	100.18	-95.23	4.95	5	Pass
143	6665	100.05	-95.23	4.82	5	Pass
175	6825	100.00	-95.23	4.77	5	Pass
207	6985	100.19	-95.23	4.96	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	100.12	-95.23	4.89	5	Pass
95	6425	100.05	-95.23	4.82	5	Pass
127	6585	99.99	-95.23	4.76	5	Pass
159	6745	100.06	-95.23	4.83	5	Pass
191	6905	99.16	-95.23	3.93	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:	Gary Lin
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NSS1

802.11a

Channel	Frequency (MHz)	26dB Bandwidth (MHz)				Maximum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
33	6115	22.58	22.22	22.41	22.60	320	Pass
61	6255	22.49	22.15	22.21	22.67	320	Pass
93	6415	22.62	22.52	22.40	22.54	320	Pass
97	6435	23.08	22.37	22.41	22.52	320	Pass
105	6475	22.60	22.59	22.44	22.62	320	Pass
113	6515	22.58	22.48	22.39	22.55	320	Pass
117	6535	22.57	22.53	22.41	22.51	320	Pass
149	6695	23.14	22.47	22.37	22.52	320	Pass
181	6855	22.62	22.56	22.41	22.59	320	Pass
185	6875	22.41	22.34	22.54	22.53	320	Pass
209	6995	22.68	22.34	22.37	22.57	320	Pass
229	7095	22.67	22.35	22.56	22.74	320	Pass
233	7115	22.64	22.37	22.32	22.54	320	Pass

802.11be (EHT20) Beamforming

Channel	Frequency (MHz)	26dB Bandwidth (MHz)				Maximum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
33	6115	22.68	23.08	23.27	23.18	320	Pass
61	6255	23.27	22.84	23.31	23.66	320	Pass
93	6415	22.94	22.86	23.04	23.02	320	Pass
97	6435	22.87	22.86	23.53	23.22	320	Pass
105	6475	22.91	22.69	23.33	23.67	320	Pass
113	6515	22.91	23.23	23.05	23.45	320	Pass
117	6535	23.20	23.01	23.38	22.94	320	Pass
149	6695	23.30	22.77	23.32	23.34	320	Pass
181	6855	23.32	22.80	23.31	23.14	320	Pass
185	6875	22.90	23.18	23.18	23.50	320	Pass
209	6995	22.91	22.73	22.75	23.32	320	Pass
229	7095	23.61	23.16	23.31	23.40	320	Pass
233	7115	22.58	23.15	23.28	23.44	320	Pass

802.11be (EHT40) Beamforming

Channel	Frequency (MHz)	26dB Bandwidth (MHz)				Maximum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
35	6125	45.06	44.67	44.19	43.83	320	Pass
59	6245	45.00	45.64	44.70	44.73	320	Pass
91	6405	45.36	44.80	44.45	44.83	320	Pass
99	6445	45.82	44.71	45.21	45.31	320	Pass
107	6485	45.17	45.29	45.09	44.43	320	Pass
115	6525	45.01	44.64	44.44	44.35	320	Pass
123	6565	45.24	44.57	44.87	44.69	320	Pass
155	6725	44.82	44.94	44.63	44.47	320	Pass
179	6845	45.65	45.06	44.29	44.77	320	Pass
187	6885	45.49	44.47	44.71	44.53	320	Pass
211	7005	45.13	44.63	45.19	44.68	320	Pass
227	7085	44.97	45.18	44.74	45.08	320	Pass

802.11be (EHT80) Beamforming

Channel	Frequency (MHz)	26dB Bandwidth (MHz)				Maximum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
39	6145	90.14	89.13	90.77	89.65	320	Pass
55	6225	91.40	91.50	91.68	90.82	320	Pass
87	6385	91.13	91.96	91.17	91.85	320	Pass
103	6465	91.01	91.90	92.13	91.26	320	Pass
119	6545	91.32	92.71	91.83	91.76	320	Pass
135	6625	90.83	92.04	91.57	91.22	320	Pass
151	6705	90.52	91.14	91.76	90.69	320	Pass
167	6785	92.21	91.41	92.77	91.24	320	Pass
183	6865	90.40	91.53	91.16	90.46	320	Pass
199	6945	90.67	90.61	92.10	90.25	320	Pass
215	7025	90.90	92.09	92.70	90.92	320	Pass

802.11be (EHT160) Beamforming

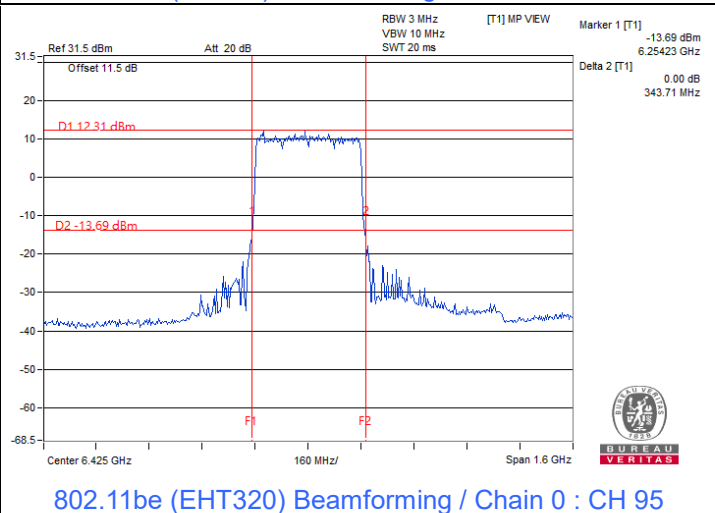
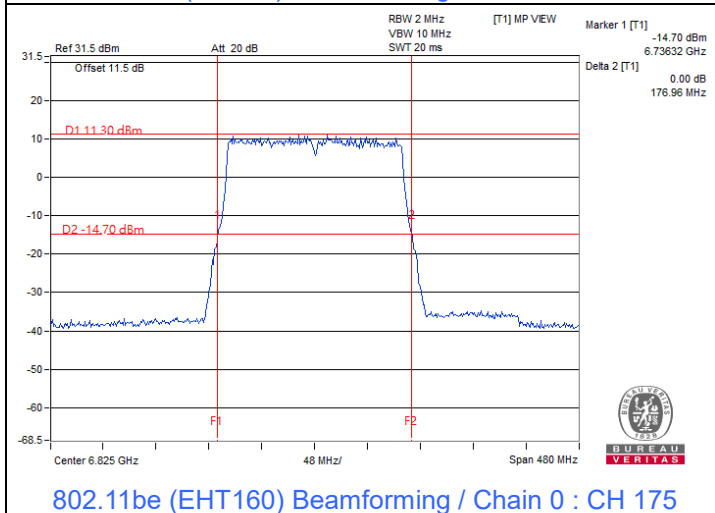
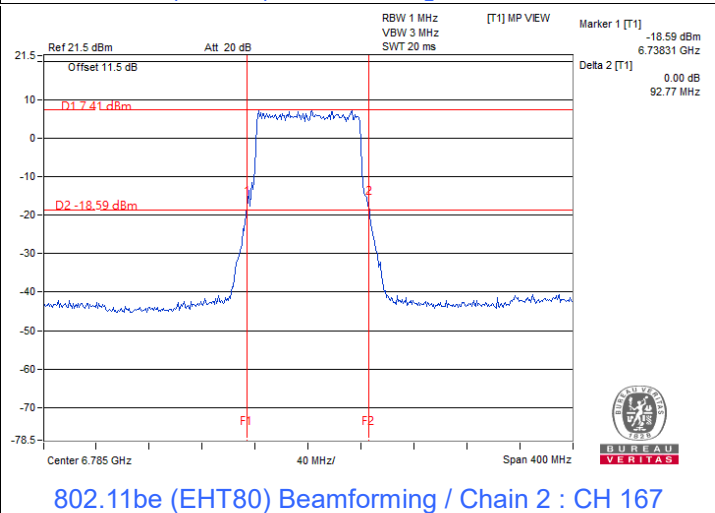
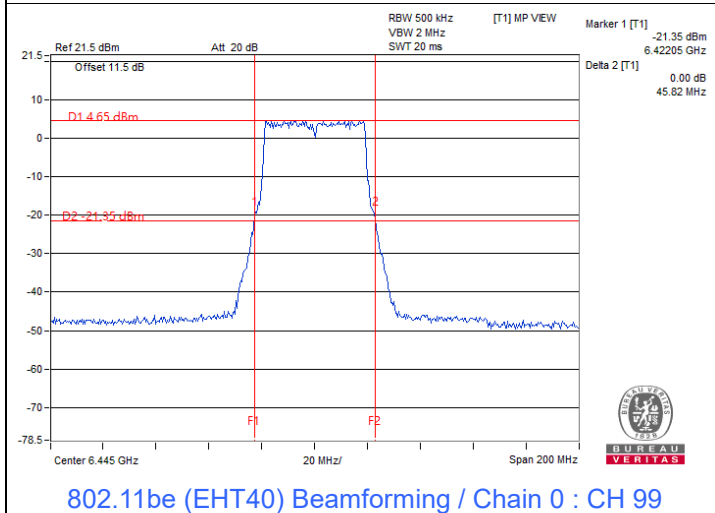
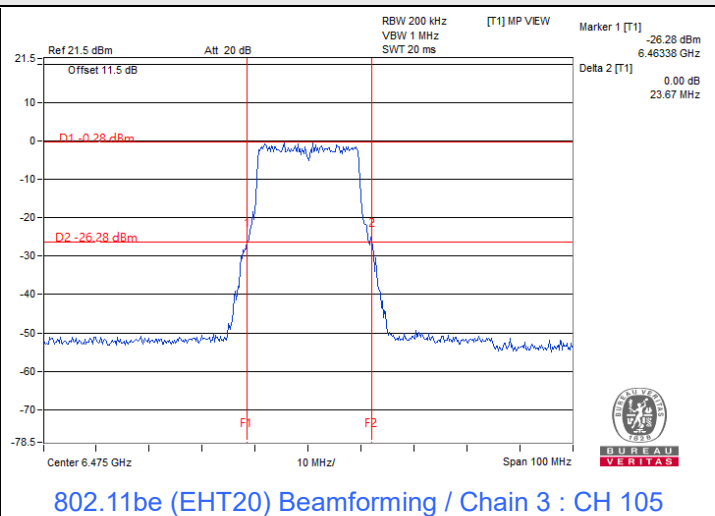
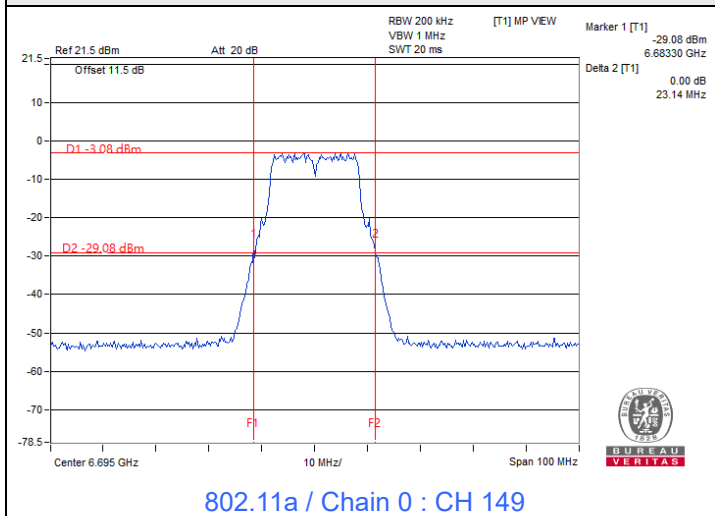
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				Maximum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
47	6185	175.58	174.44	173.14	173.42	320	Pass
79	6345	176.60	173.03	175.56	172.56	320	Pass
111	6505	174.97	173.44	173.31	173.48	320	Pass
143	6665	174.80	174.00	176.22	172.47	320	Pass
175	6825	176.96	175.20	174.20	172.49	320	Pass
207	6985	176.15	175.36	172.10	173.50	320	Pass

802.11be (EHT320) Beamforming

Channel	Frequency (MHz)	26dB Bandwidth (MHz)				Maximum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
63	6265	337.78	338.67	339.69	337.69	320	Note
95	6425	343.71	342.30	340.51	339.81	320	Note
127	6585	339.16	342.28	342.56	339.79	320	Note
159	6745	338.53	342.51	341.65	340.55	320	Note
191	6905	341.14	339.48	338.81	339.89	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	Chain 2	Chain 3		
33	6115	22.79	22.70	23.23	23.09	320	Pass
61	6255	23.04	22.89	23.24	23.18	320	Pass
93	6415	23.00	22.97	23.34	23.35	320	Pass
97	6435	23.12	22.75	23.16	23.55	320	Pass
105	6475	23.51	22.95	23.16	22.84	320	Pass
113	6515	22.99	22.98	23.48	23.46	320	Pass
117	6535	22.96	23.18	23.19	23.48	320	Pass
149	6695	22.92	22.63	23.27	23.74	320	Pass
181	6855	23.09	22.82	23.44	23.42	320	Pass
185	6875	23.09	22.80	22.93	23.59	320	Pass
209	6995	23.27	22.80	23.50	23.51	320	Pass
229	7095	22.95	23.05	23.14	23.66	320	Pass
233	7115	22.85	23.05	23.41	23.85	320	Pass

802.11be (EHT40) Beamforming

Channel	Frequency (MHz)	26dB Bandwidth (MHz)				Maximum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
35	6125	44.67	44.13	44.82	44.37	320	Pass
59	6245	44.93	44.49	44.36	44.87	320	Pass
91	6405	45.74	44.15	44.45	45.04	320	Pass
99	6445	45.16	44.02	44.61	44.43	320	Pass
107	6485	45.77	44.41	44.88	44.49	320	Pass
115	6525	44.91	44.44	44.17	44.59	320	Pass
123	6565	44.97	44.25	44.41	45.40	320	Pass
155	6725	45.50	44.99	44.55	44.59	320	Pass
179	6845	44.76	44.64	44.76	45.04	320	Pass
187	6885	45.06	44.65	44.77	44.53	320	Pass
211	7005	45.48	44.37	44.78	45.29	320	Pass
227	7085	45.20	44.47	44.80	44.93	320	Pass

802.11be (EHT80) Beamforming

Channel	Frequency (MHz)	26dB Bandwidth (MHz)				Maximum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
39	6145	90.71	89.81	90.72	90.59	320	Pass
55	6225	90.64	89.91	90.53	90.75	320	Pass
87	6385	90.12	88.70	90.16	90.68	320	Pass
103	6465	90.79	90.45	92.08	91.07	320	Pass
119	6545	89.68	90.01	90.68	90.21	320	Pass
135	6625	90.40	91.16	89.94	90.68	320	Pass
151	6705	90.61	90.03	91.71	90.18	320	Pass
167	6785	91.11	91.18	90.62	91.01	320	Pass
183	6865	90.57	89.93	89.85	90.23	320	Pass
199	6945	91.69	90.78	90.77	91.84	320	Pass
215	7025	91.57	90.97	90.96	91.55	320	Pass

802.11be (EHT160) Beamforming

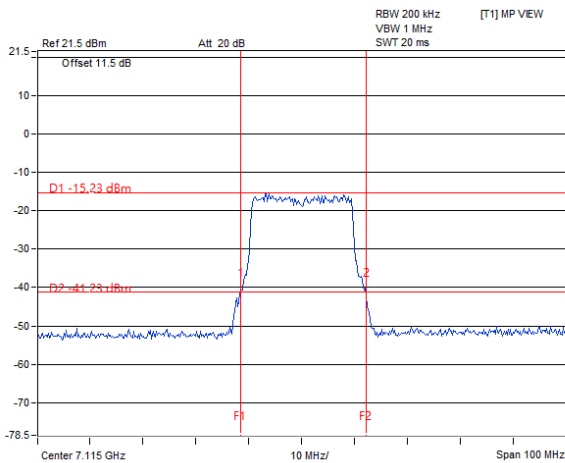
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				Maximum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
47	6185	175.67	173.34	173.06	172.68	320	Pass
79	6345	177.22	173.19	174.21	173.86	320	Pass
111	6505	176.95	173.85	174.51	174.93	320	Pass
143	6665	177.51	174.20	173.23	175.46	320	Pass
175	6825	176.97	173.18	174.59	174.86	320	Pass
207	6985	173.40	175.04	172.52	174.48	320	Pass

802.11be (EHT320) Beamforming

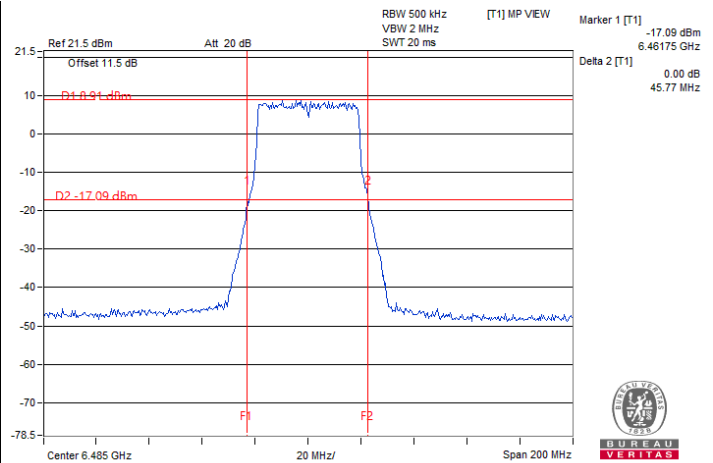
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				Maximum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
63	6265	484.54	496.18	512.55	540.88	320	Note
95	6425	564.99	627.93	573.10	634.53	320	Note
127	6585	625.67	631.76	635.14	637.18	320	Note
159	6745	616.22	634.81	593.30	629.20	320	Note
191	6905	630.99	631.59	630.04	632.34	320	Note

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

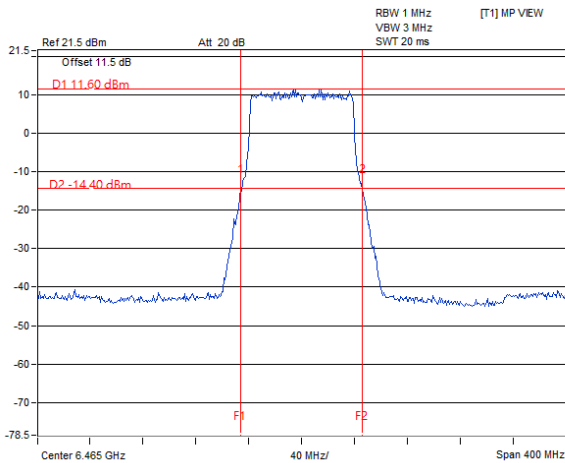
Spectrum Plot of Maximum Value



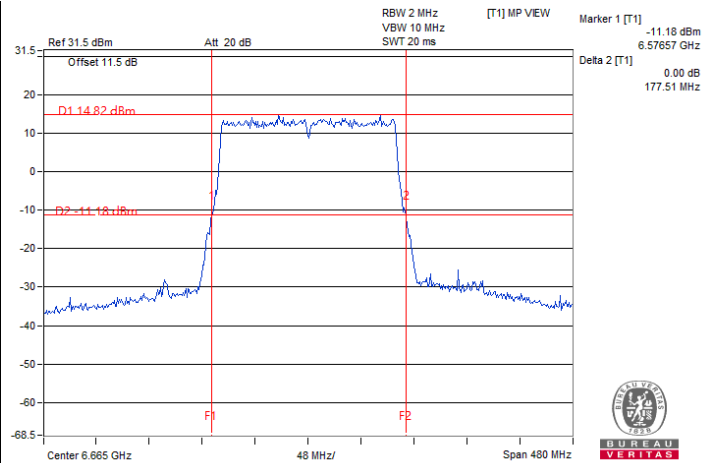
802.11be (EHT20) Beamforming / Chain 3 : CH 233



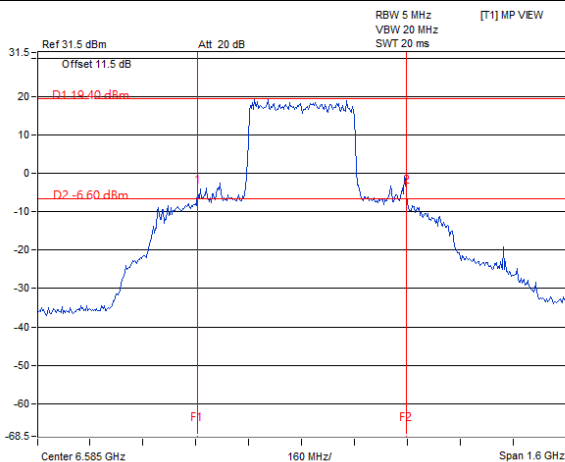
802.11be (EHT40) Beamforming / Chain 0 : CH 107



802.11be (EHT80) Beamforming / Chain 2 : CH 103



802.11be (EHT160) Beamforming / Chain 0 : CH 143



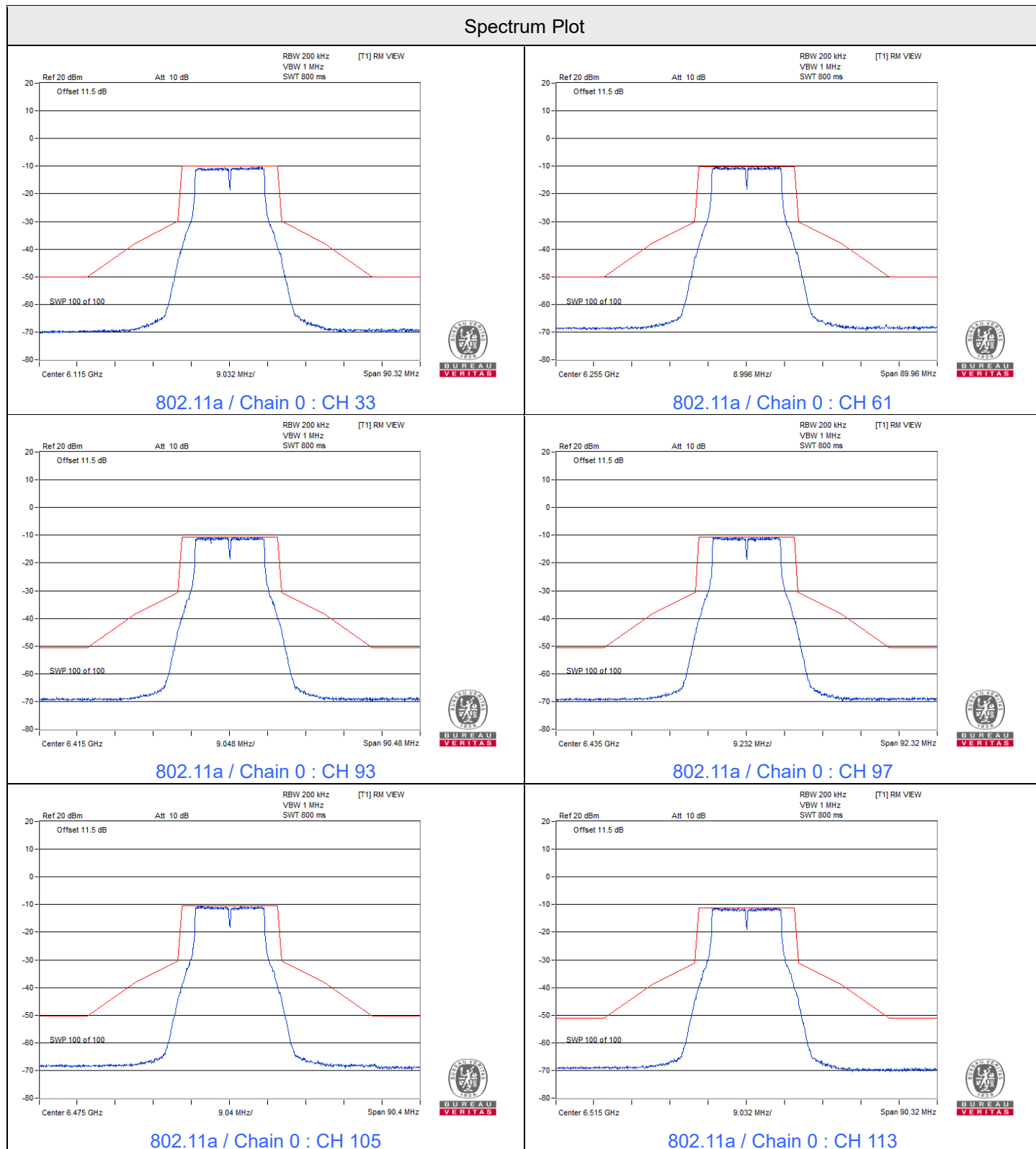
802.11be (EHT320) Beamforming / Chain 3 : CH 127

7.4 In-Band Emission Mask

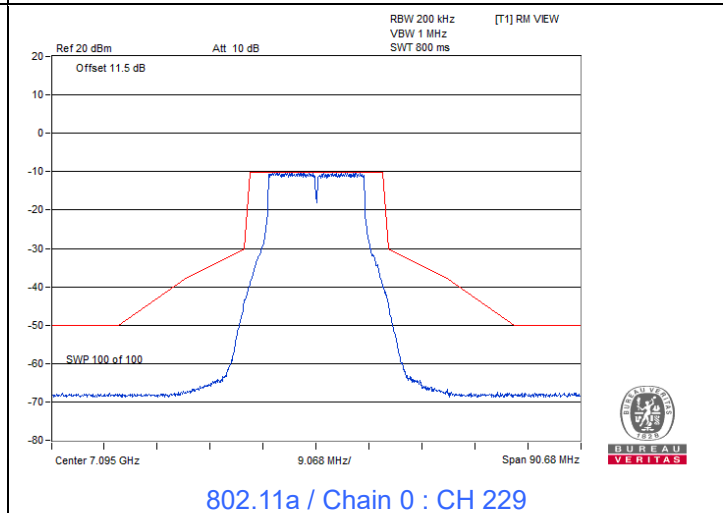
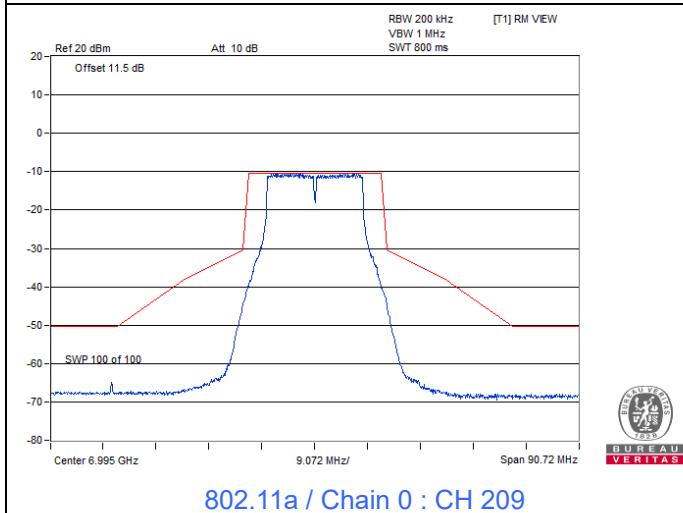
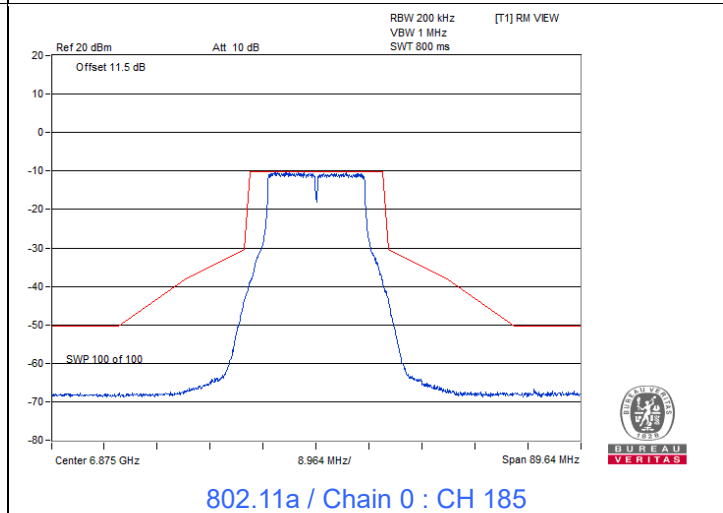
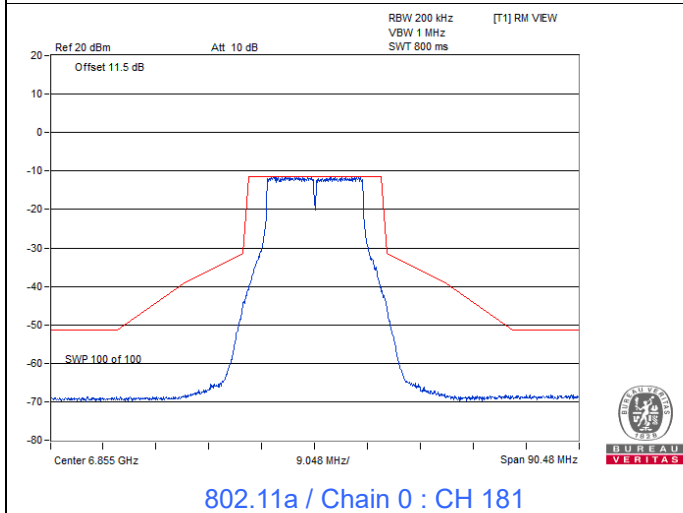
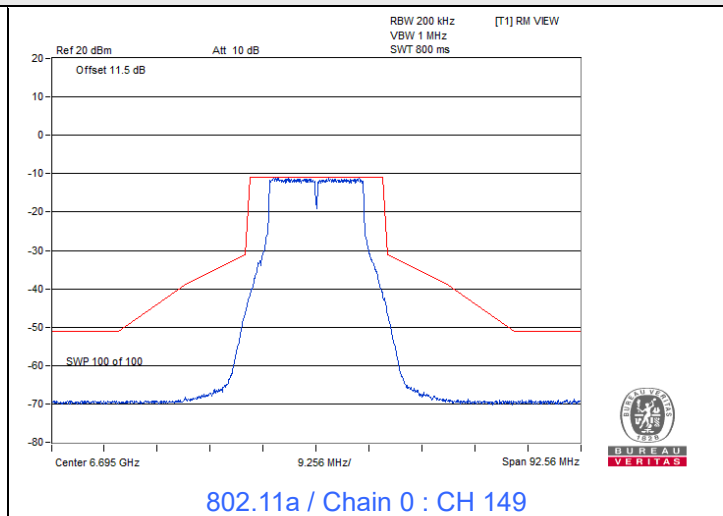
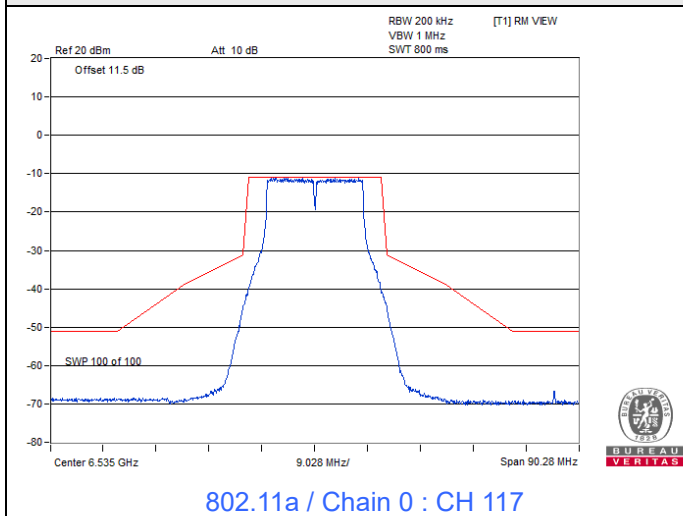
Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Gary Lin
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NSS1

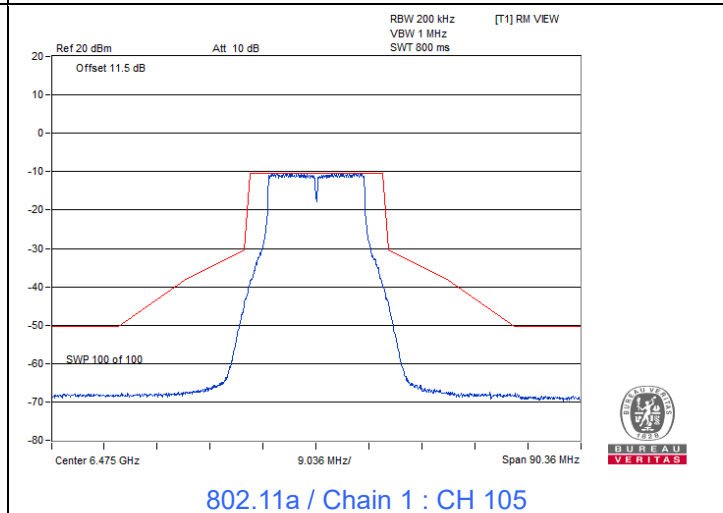
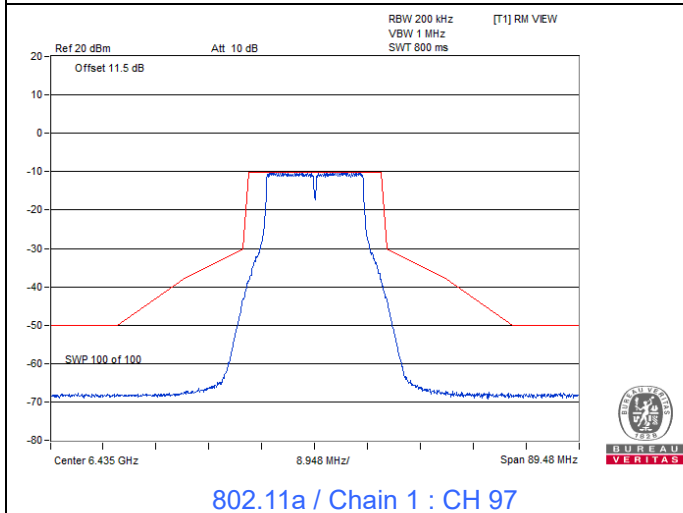
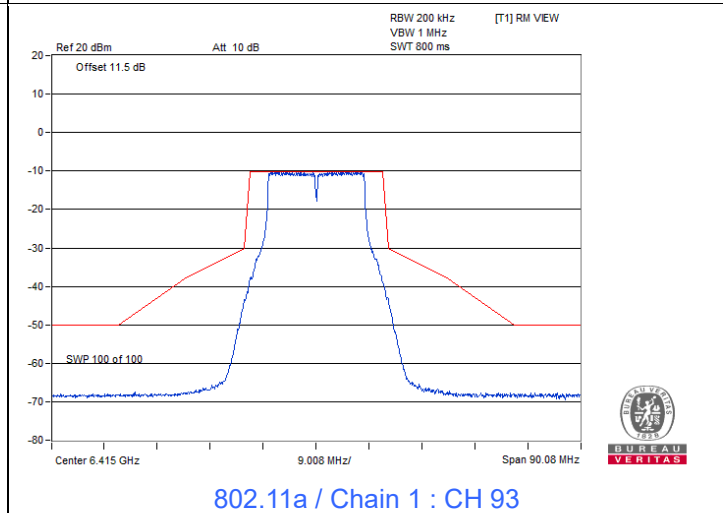
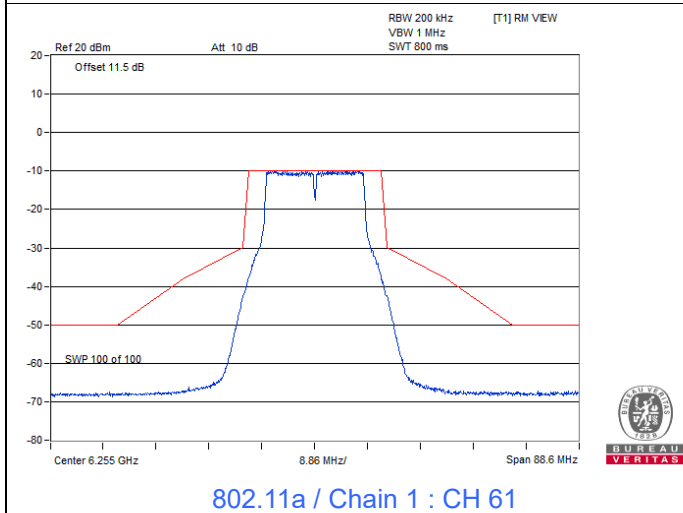
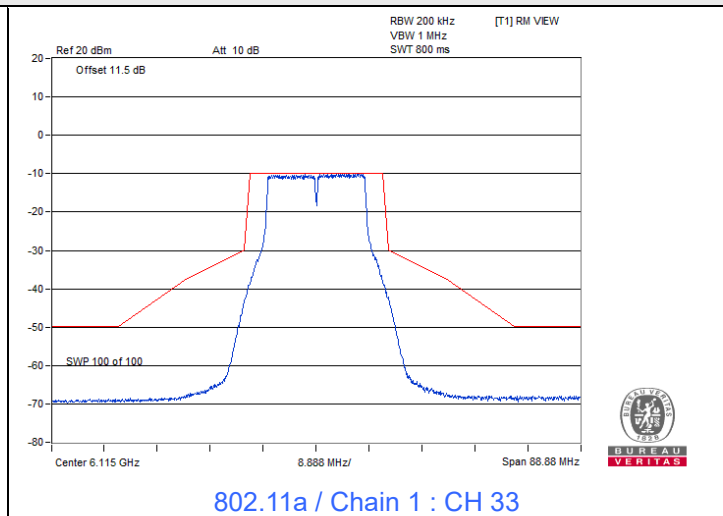
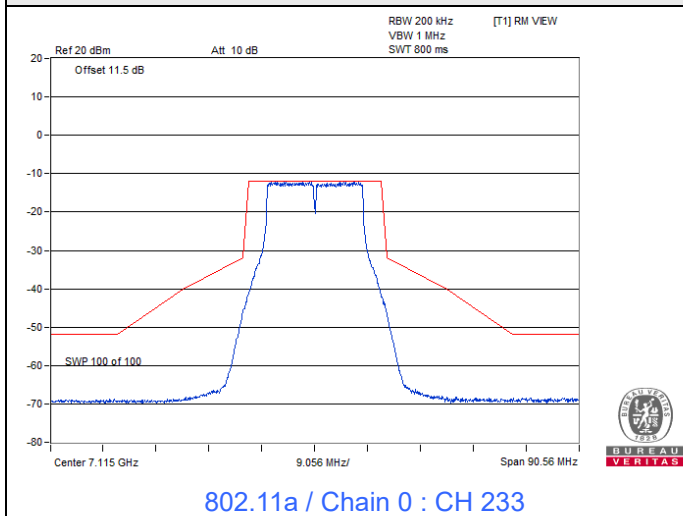
802.11a



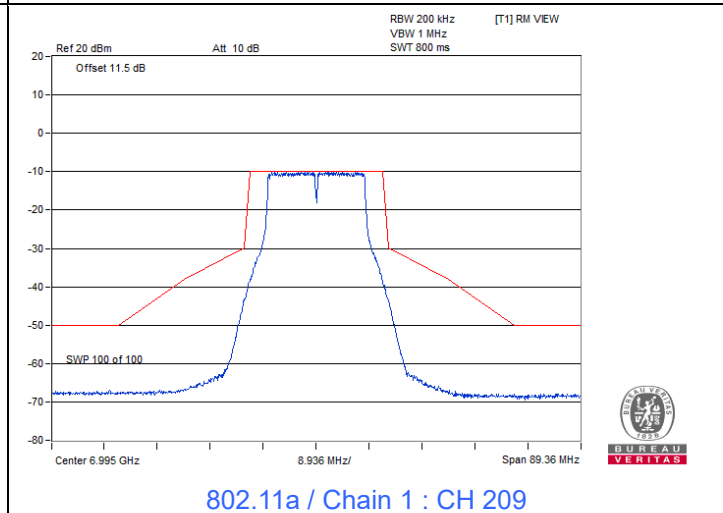
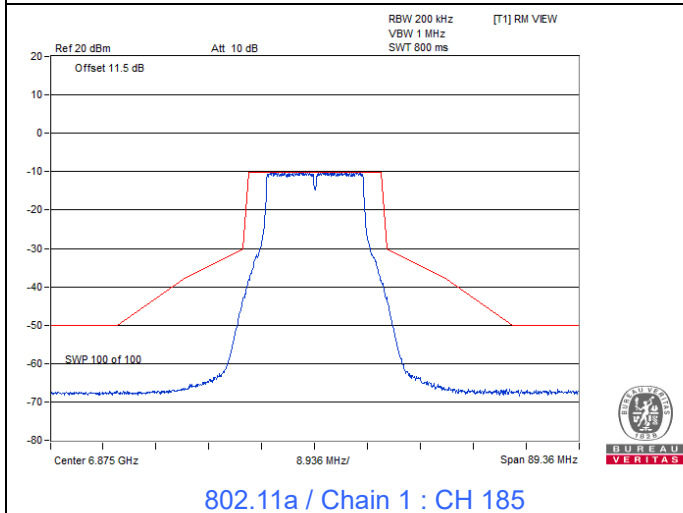
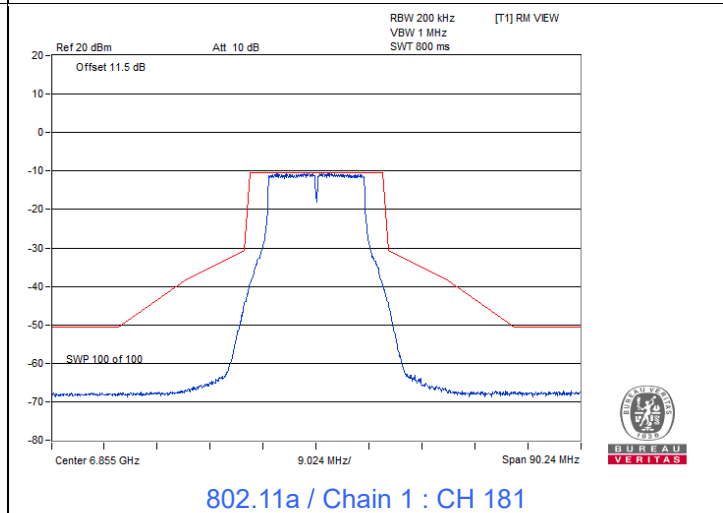
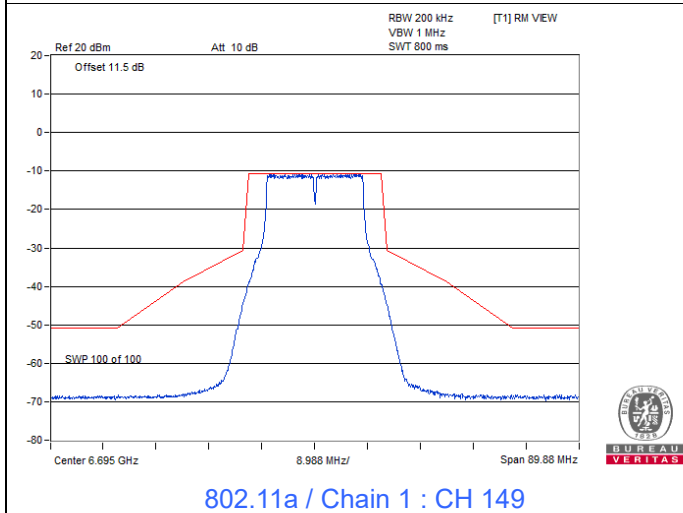
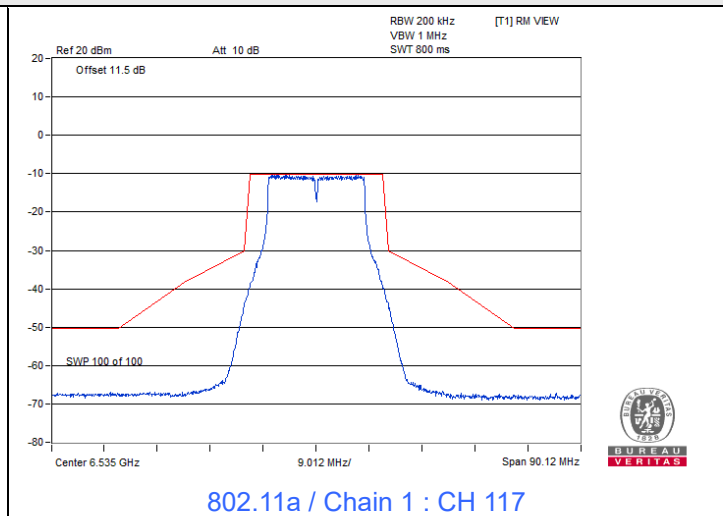
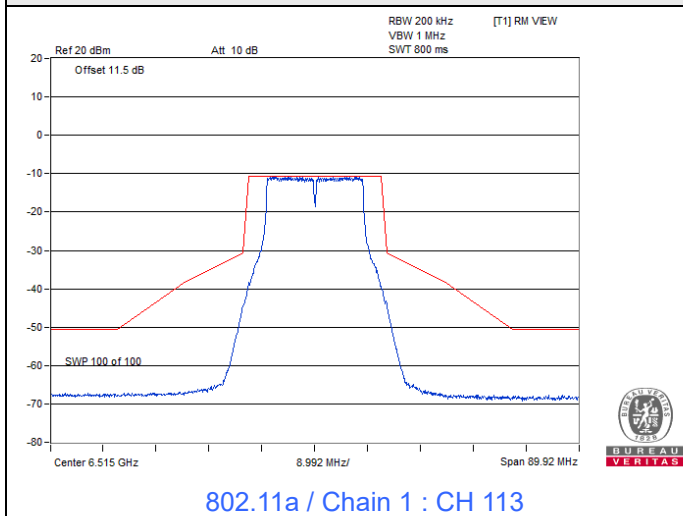
Spectrum Plot



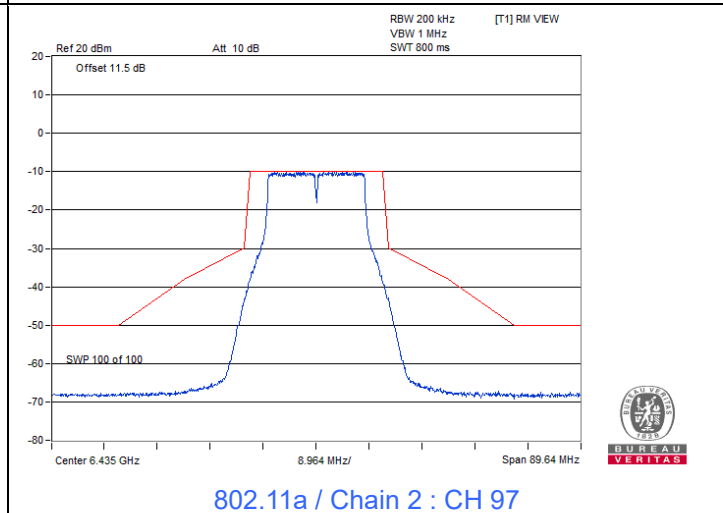
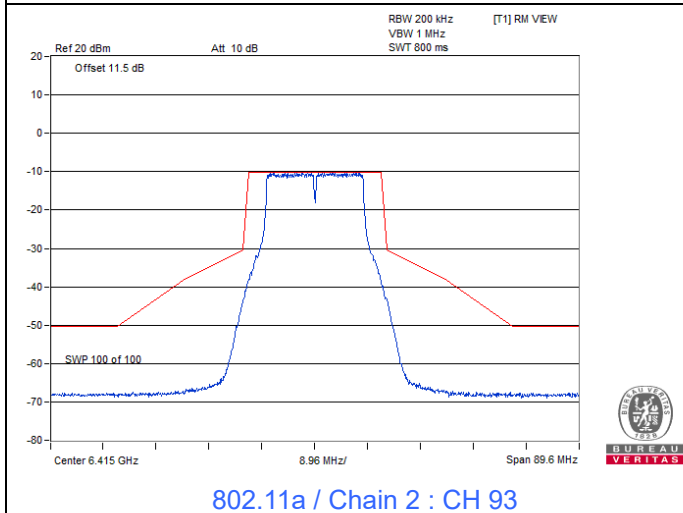
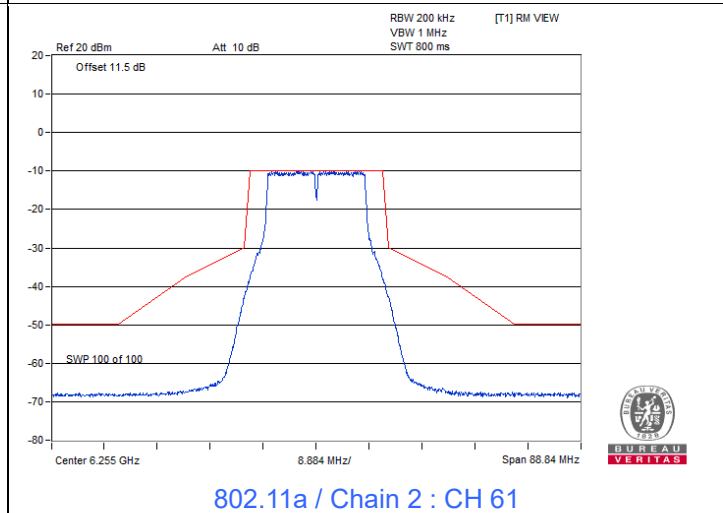
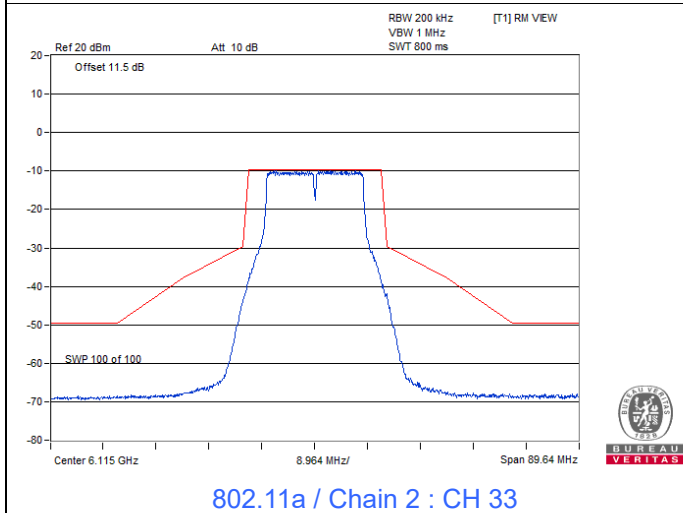
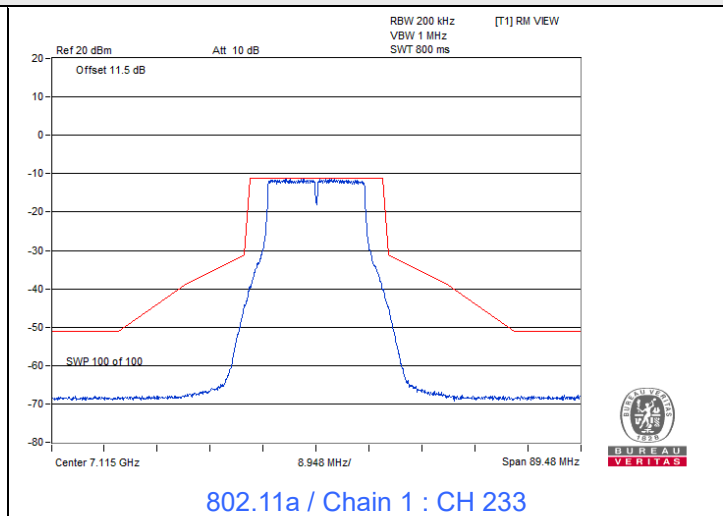
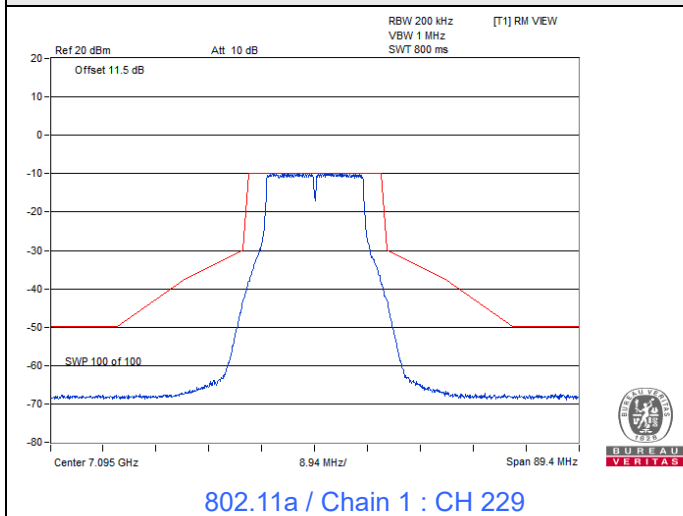
Spectrum Plot



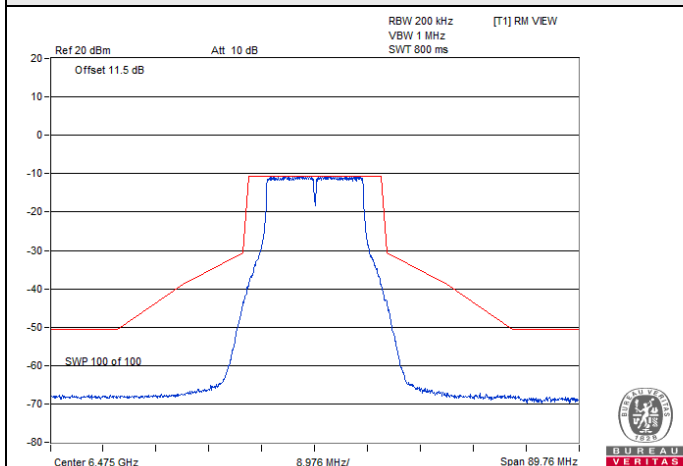
Spectrum Plot



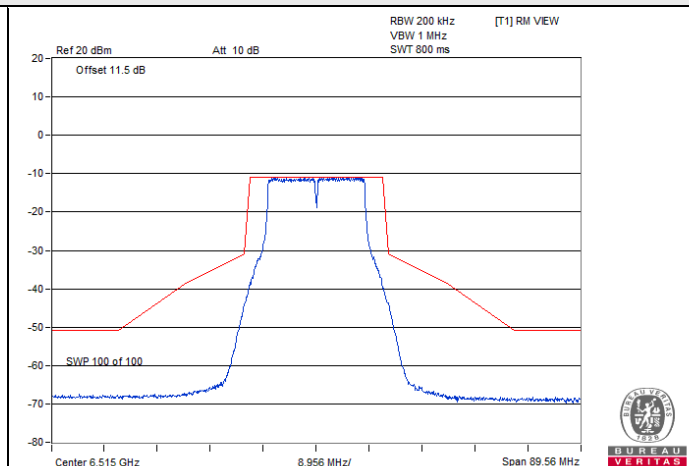
Spectrum Plot



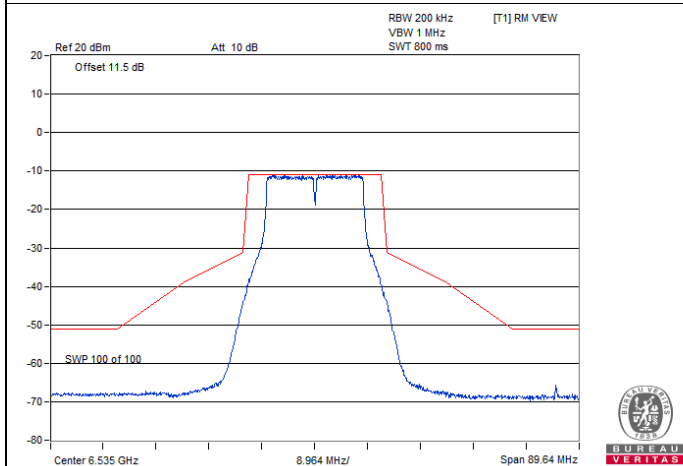
Spectrum Plot



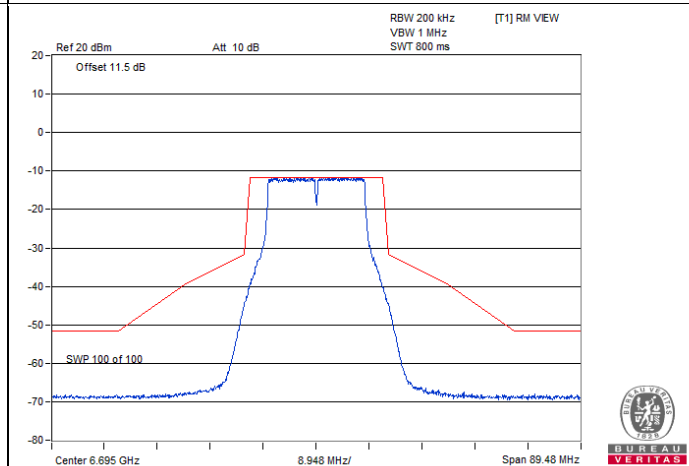
802.11a / Chain 2 : CH 105



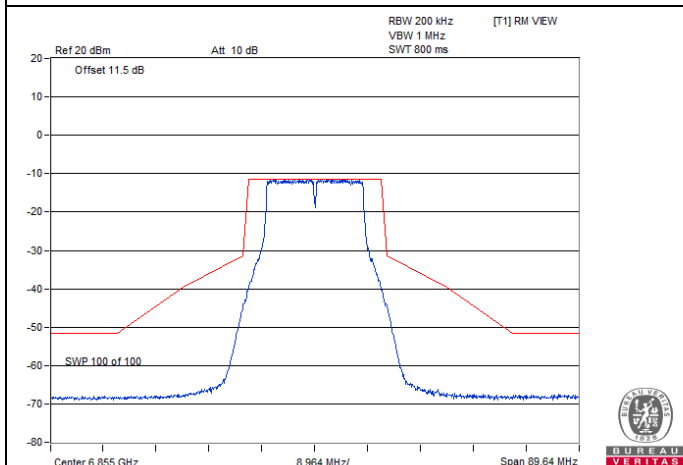
802.11a / Chain 2 : CH 113



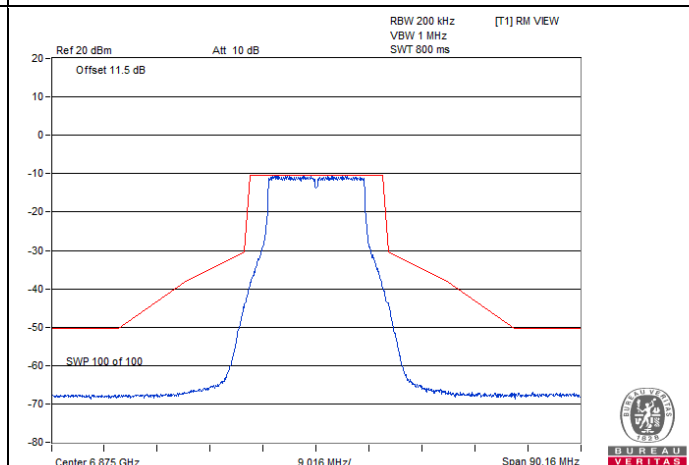
802.11a / Chain 2 : CH 117



802.11a / Chain 2 : CH 149

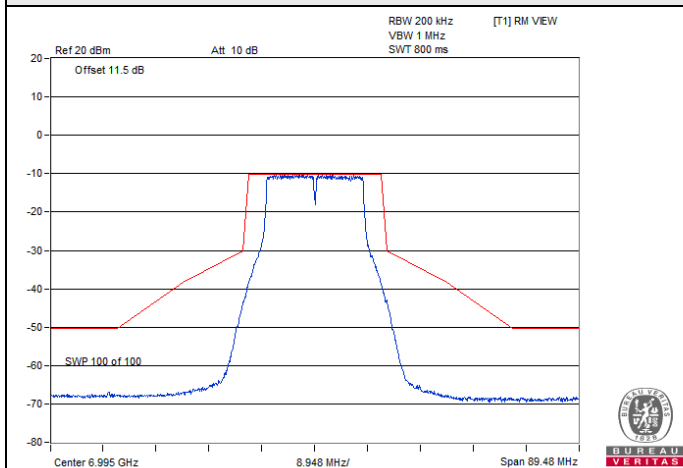


802.11a / Chain 2 : CH 181

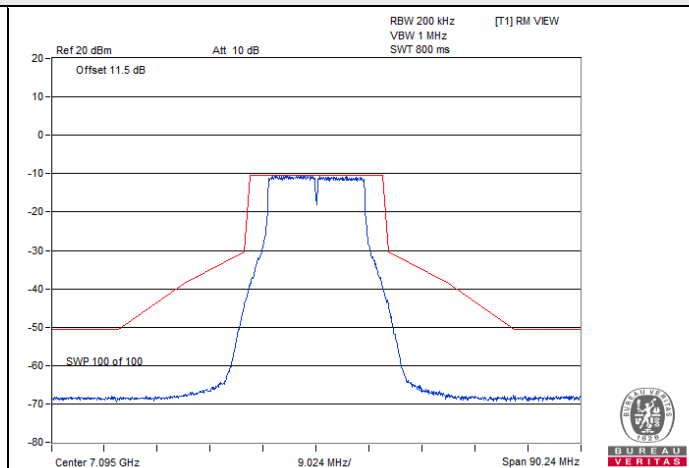


802.11a / Chain 2 : CH 185

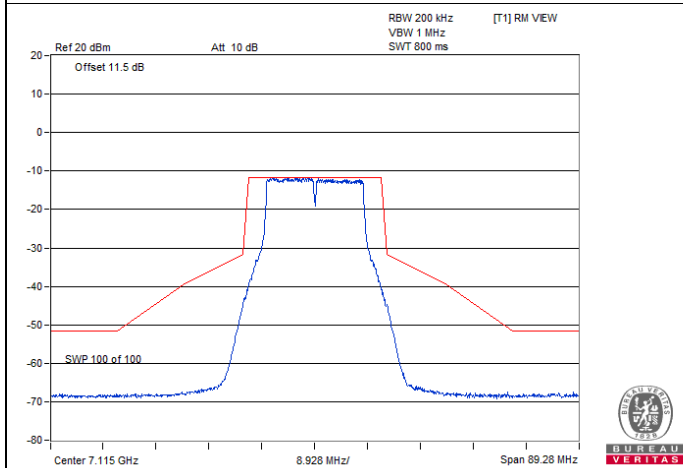
Spectrum Plot



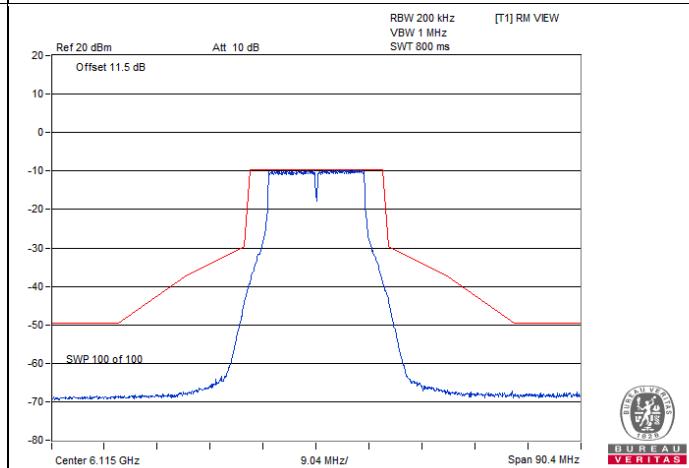
802.11a / Chain 2 : CH 209



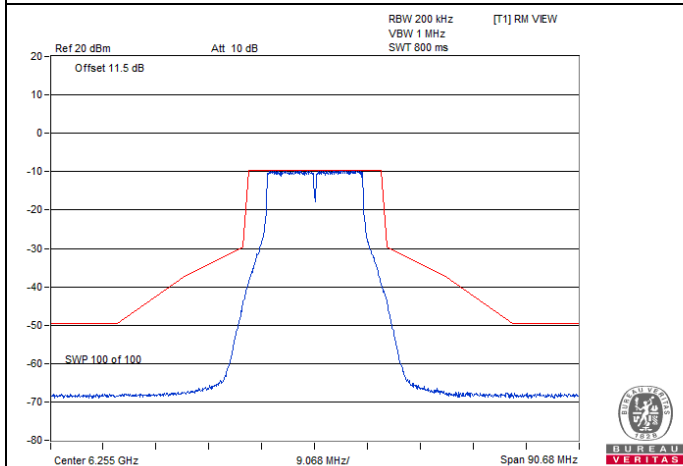
802.11a / Chain 2 : CH 229



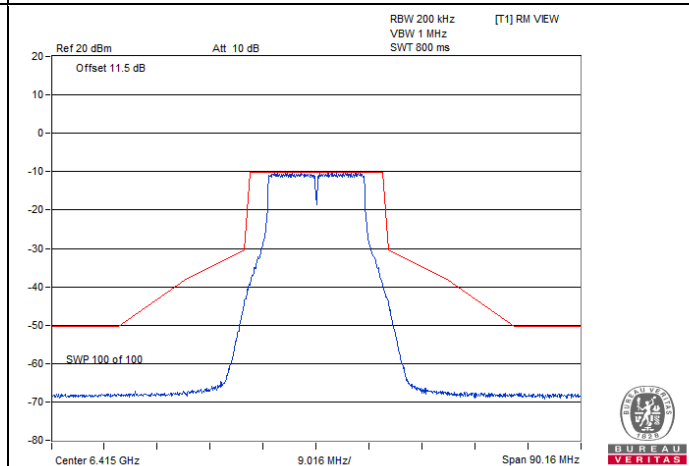
802.11a / Chain 2 : CH 233



802.11a / Chain 3 : CH 33

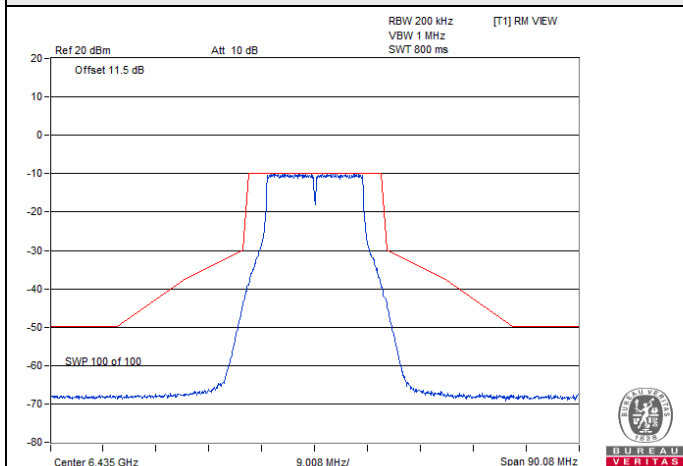


802.11a / Chain 3 : CH 61

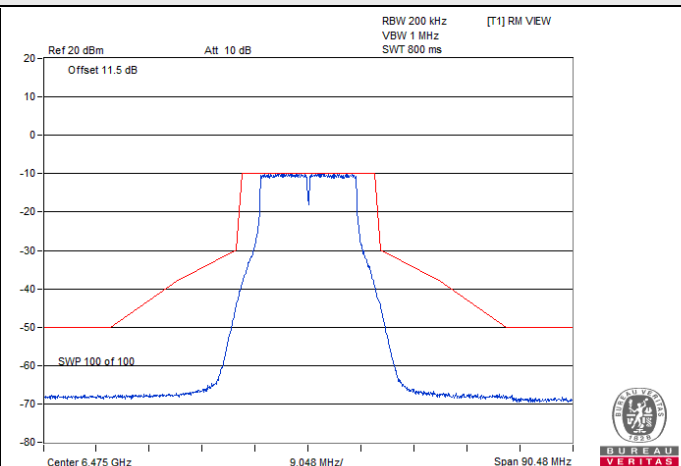


802.11a / Chain 3 : CH 93

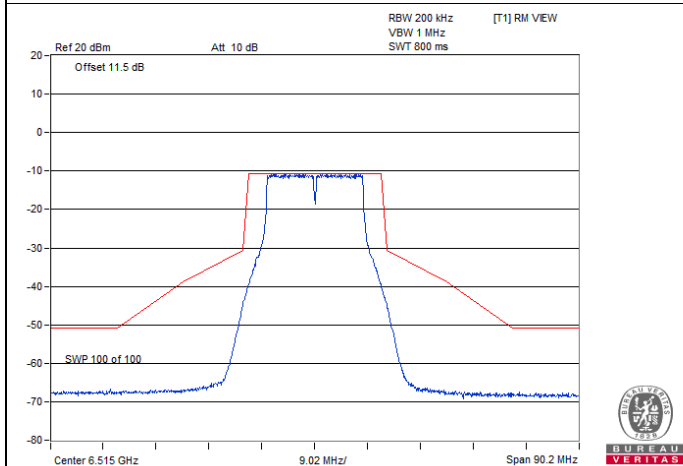
Spectrum Plot



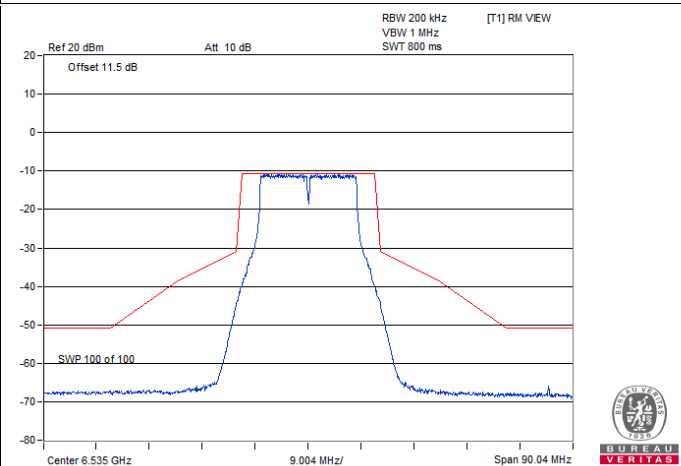
802.11a / Chain 3 : CH 97



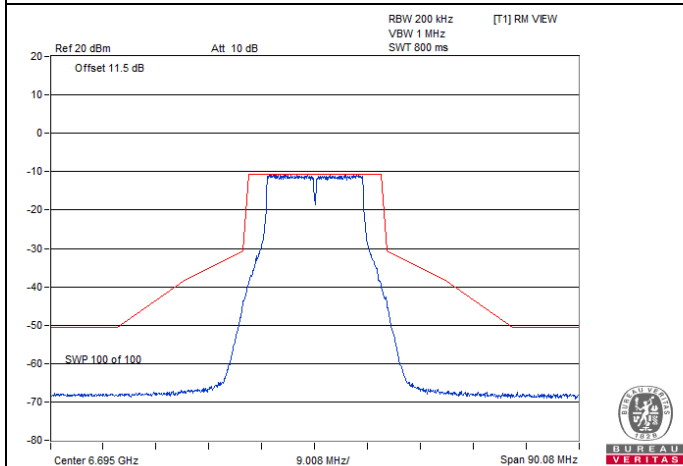
802.11a / Chain 3 : CH 105



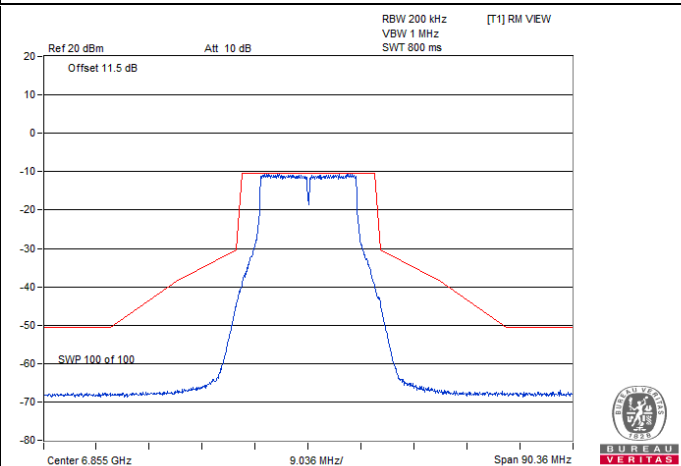
802.11a / Chain 3 : CH 113



802.11a / Chain 3 : CH 117

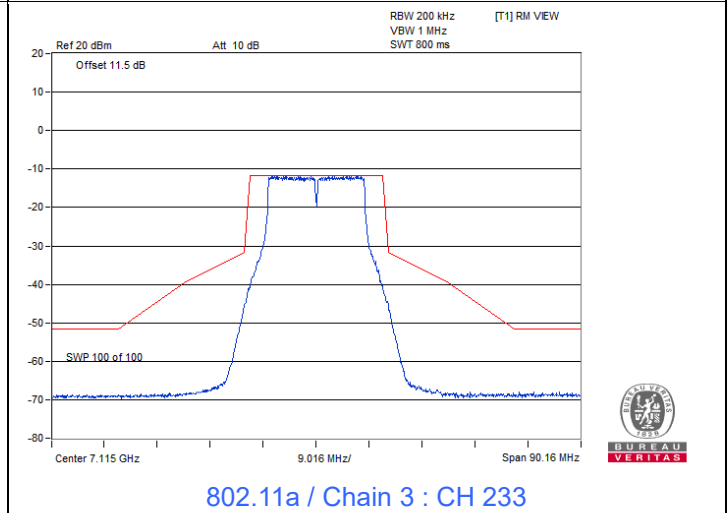
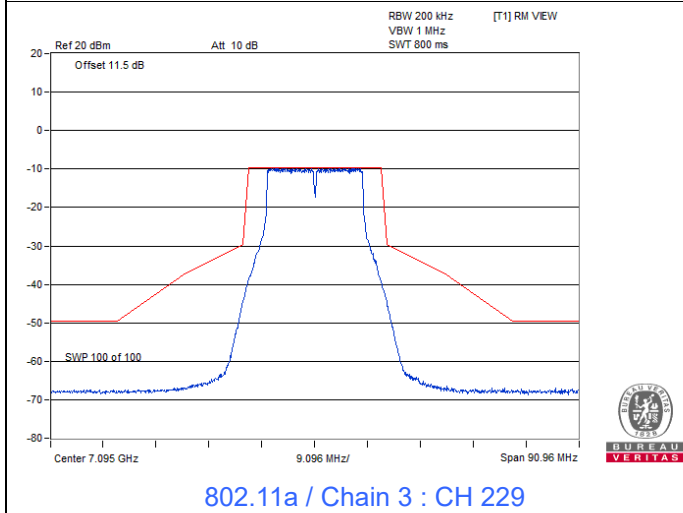
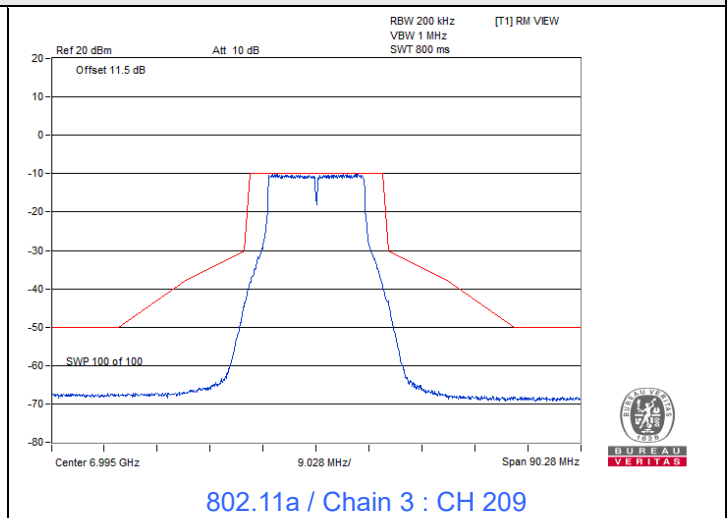
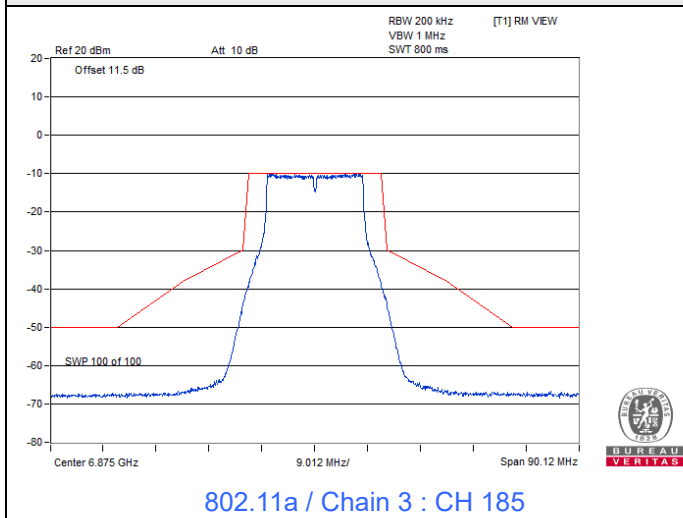


802.11a / Chain 3 : CH 149



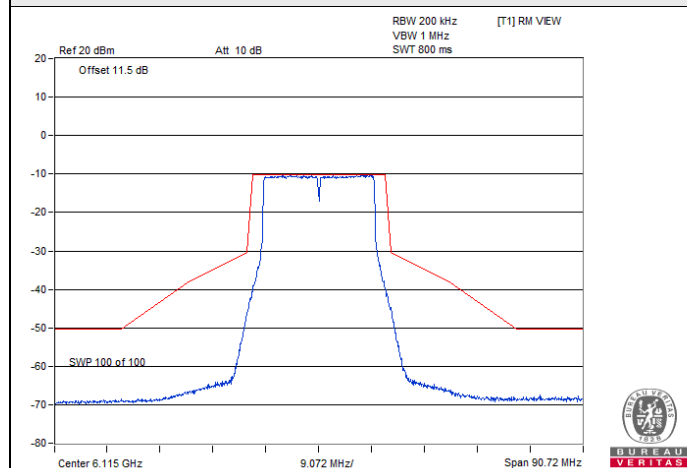
802.11a / Chain 3 : CH 181

Spectrum Plot

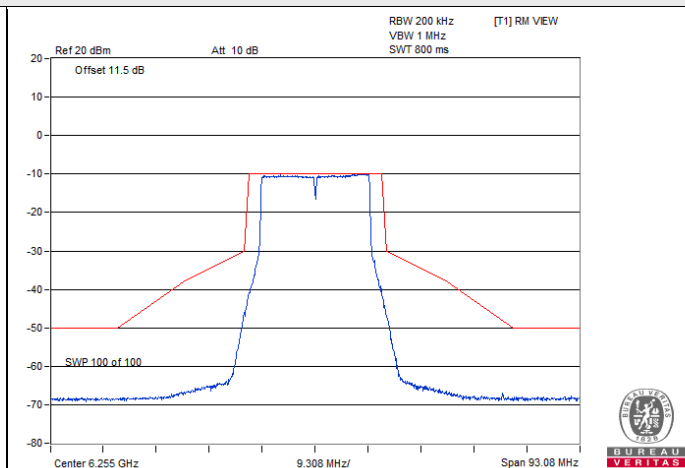


802.11be (EHT20) Beamforming

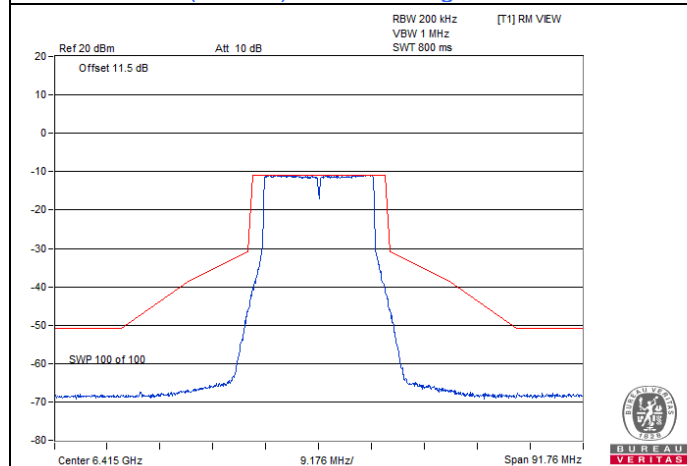
Spectrum Plot



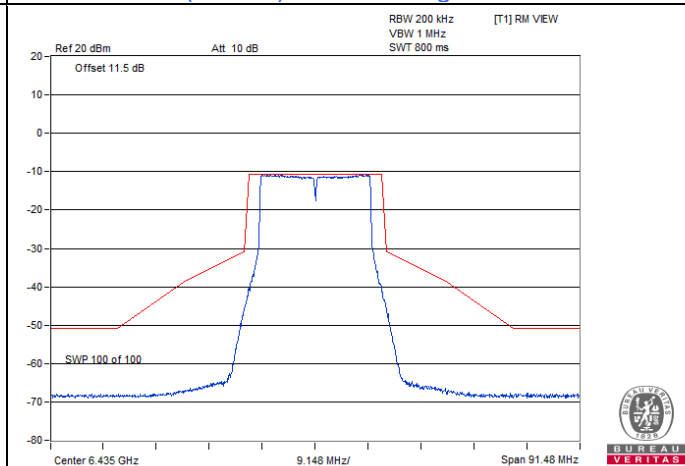
802.11be (EHT20) Beamforming / Chain 0 : CH 33



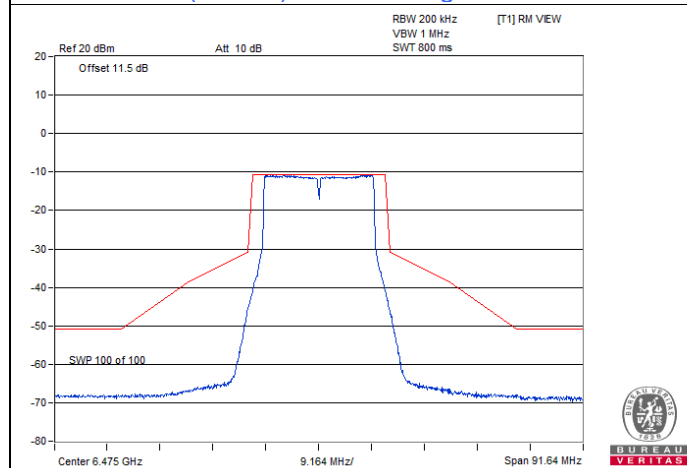
802.11be (EHT20) Beamforming / Chain 0 : CH 61



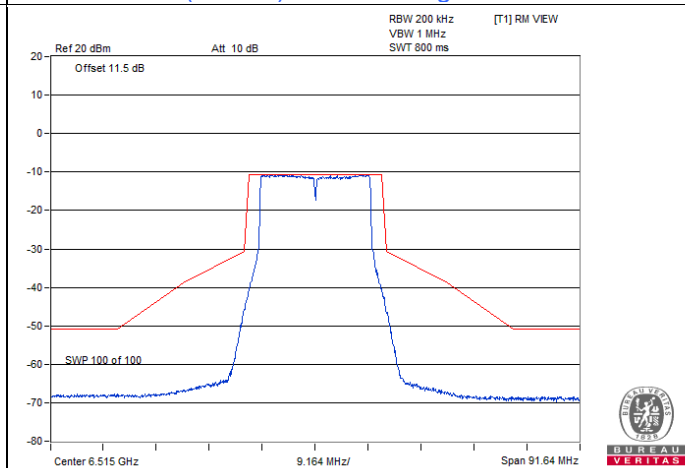
802.11be (EHT20) Beamforming / Chain 0 : CH 93



802.11be (EHT20) Beamforming / Chain 0 : CH 97

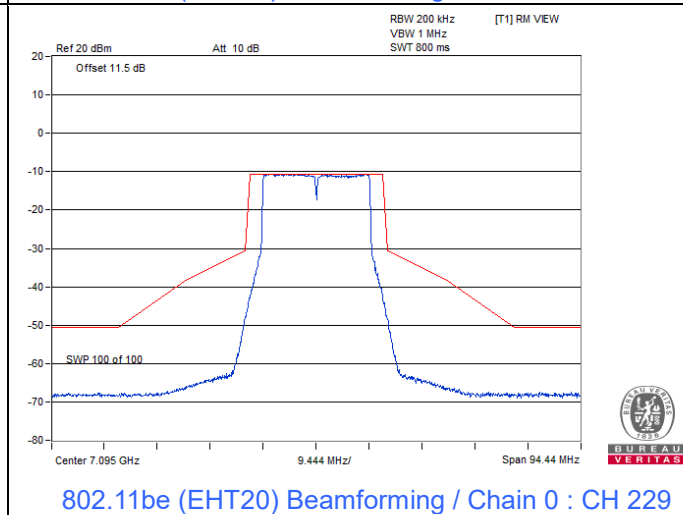
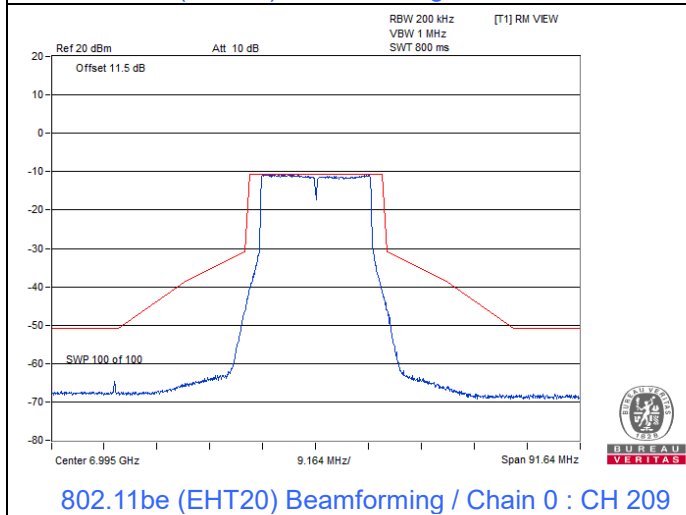
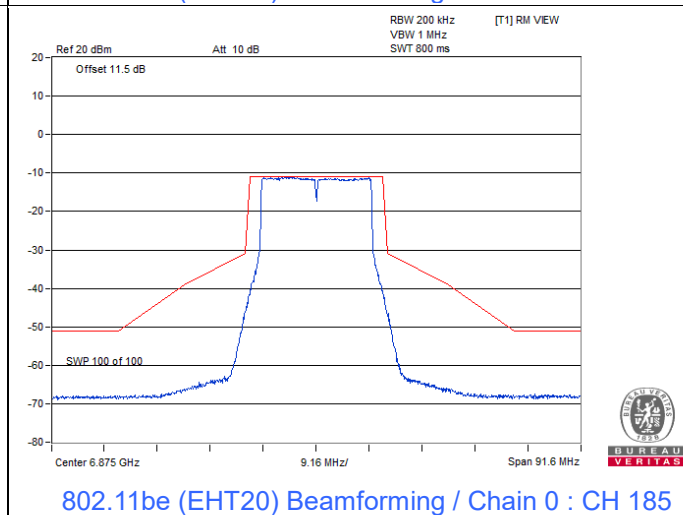
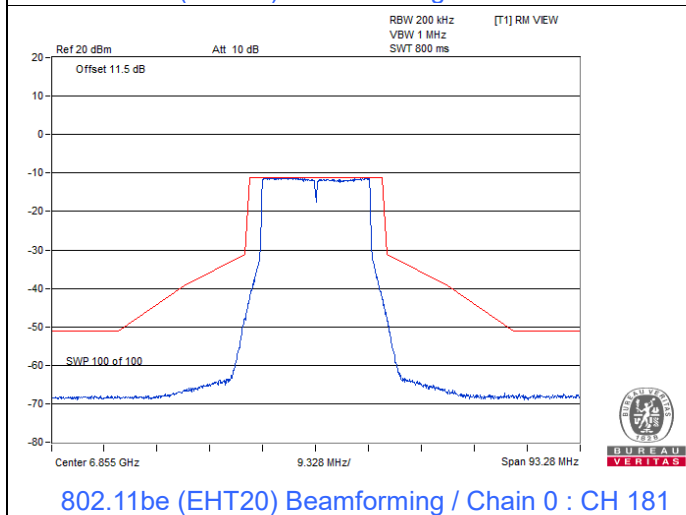
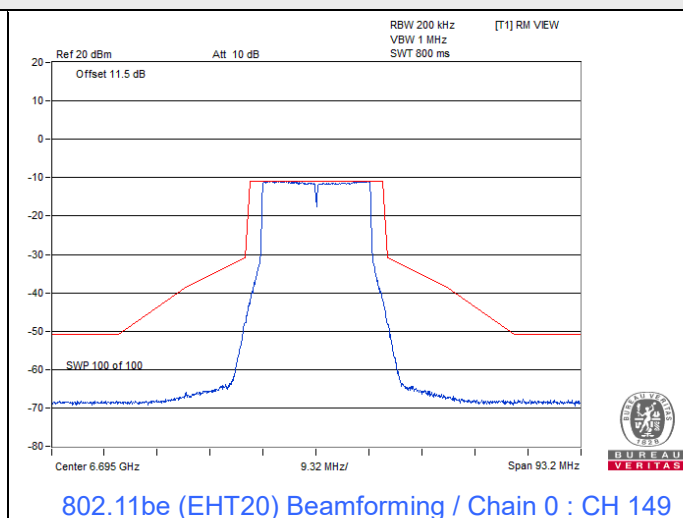
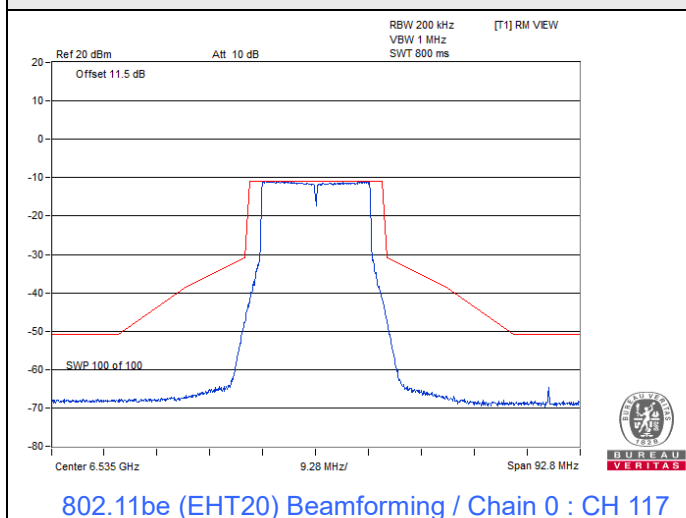


802.11be (EHT20) Beamforming / Chain 0 : CH 105

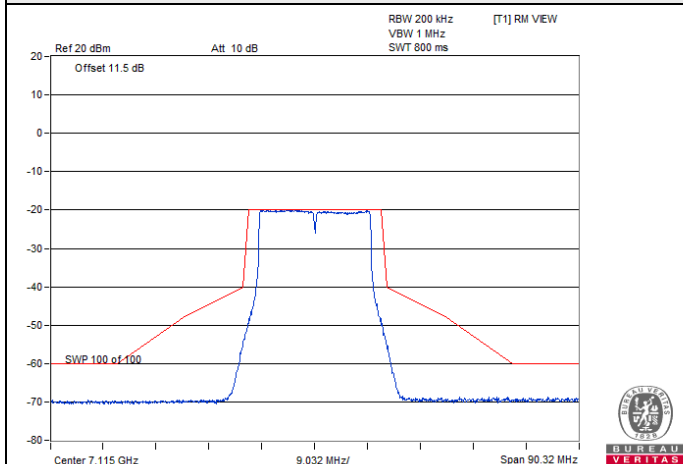


802.11be (EHT20) Beamforming / Chain 0 : CH 113

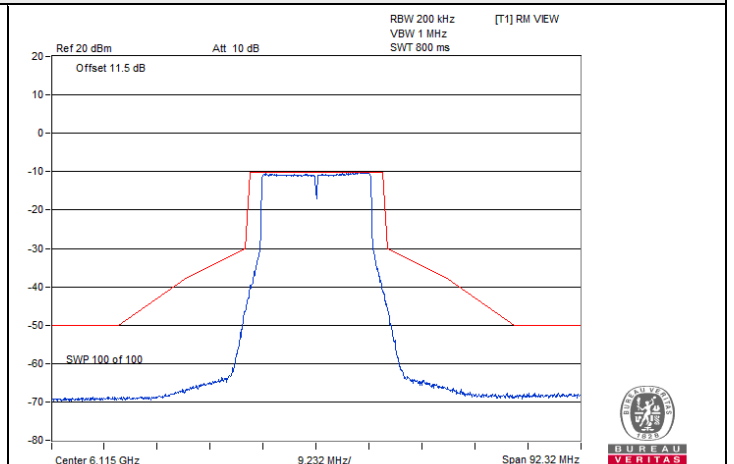
Spectrum Plot



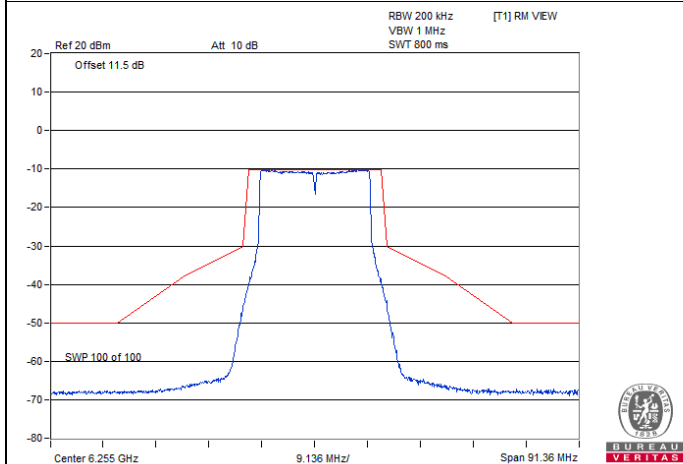
Spectrum Plot



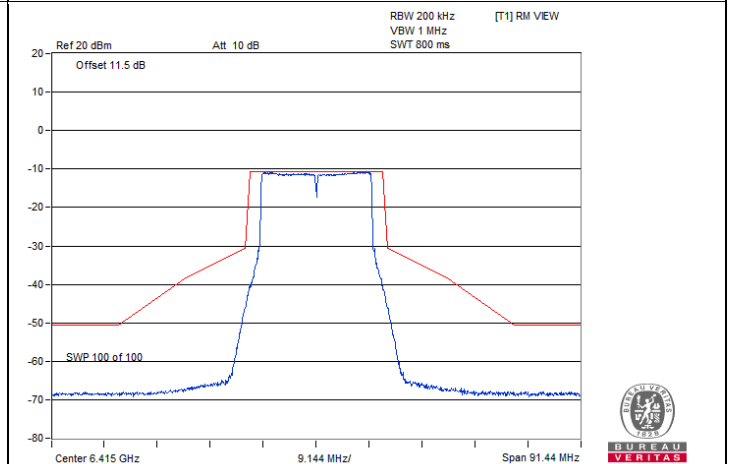
802.11be (EHT20) Beamforming / Chain 0 : CH 233



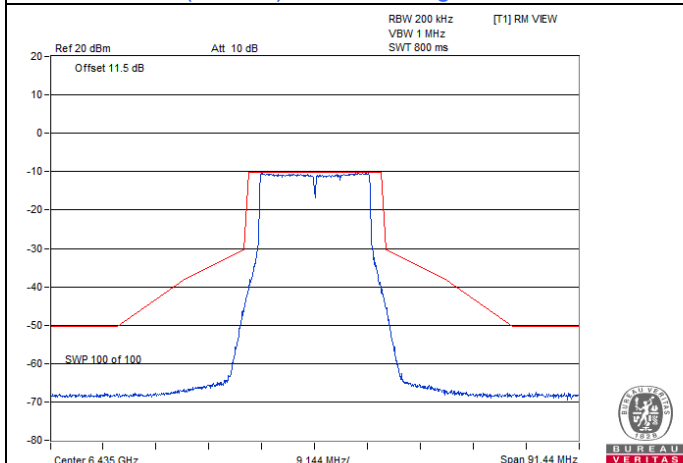
802.11be (EHT20) Beamforming / Chain 1 : CH 33



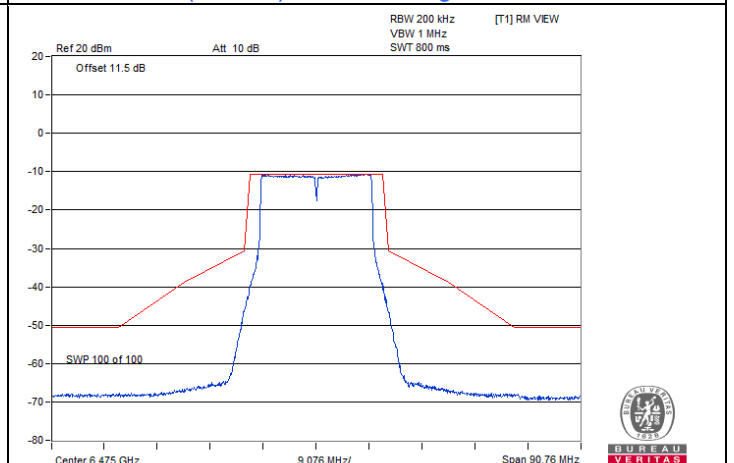
802.11be (EHT20) Beamforming / Chain 1 : CH 61



802.11be (EHT20) Beamforming / Chain 1 : CH 93

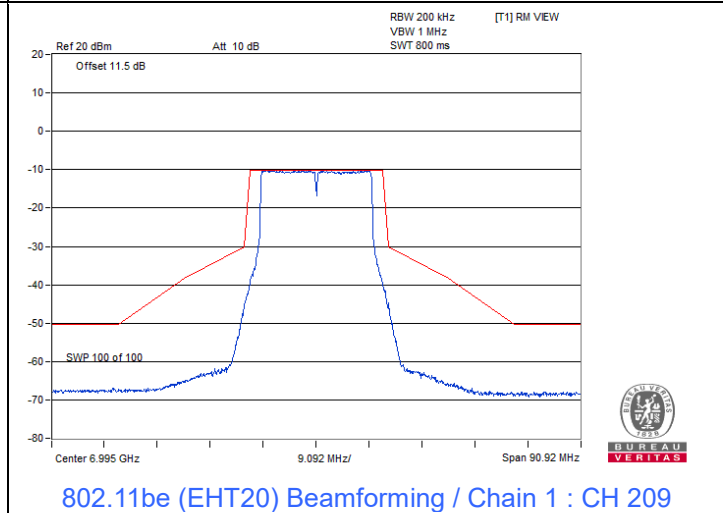
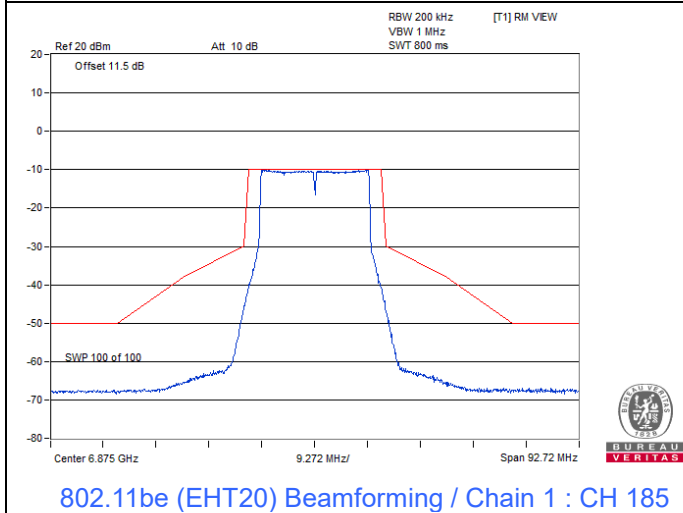
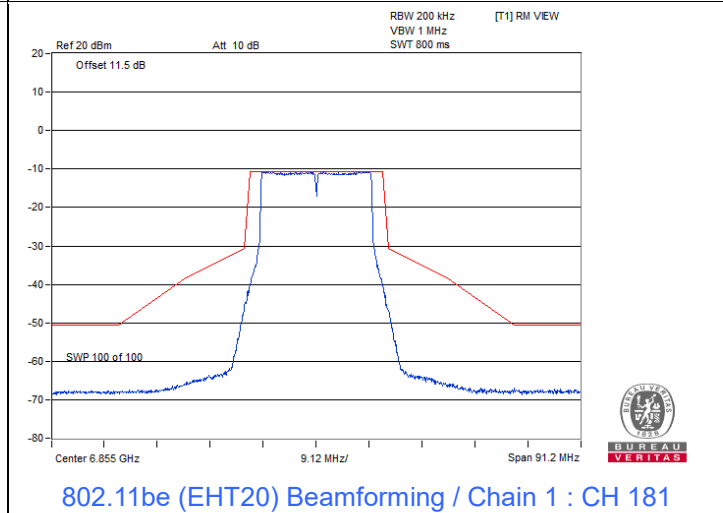
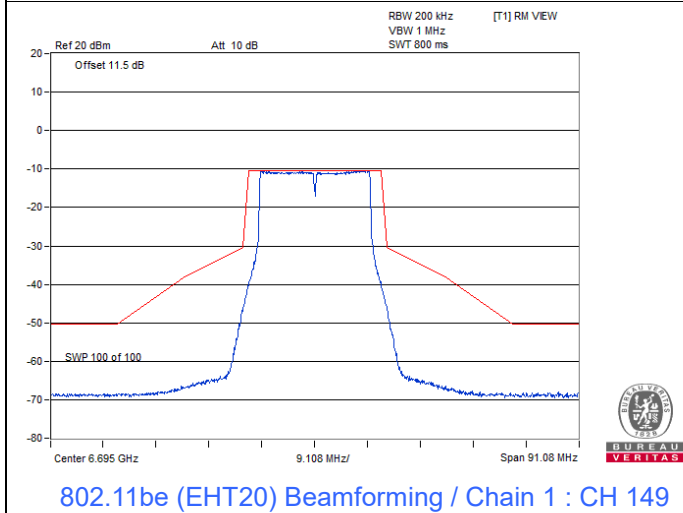
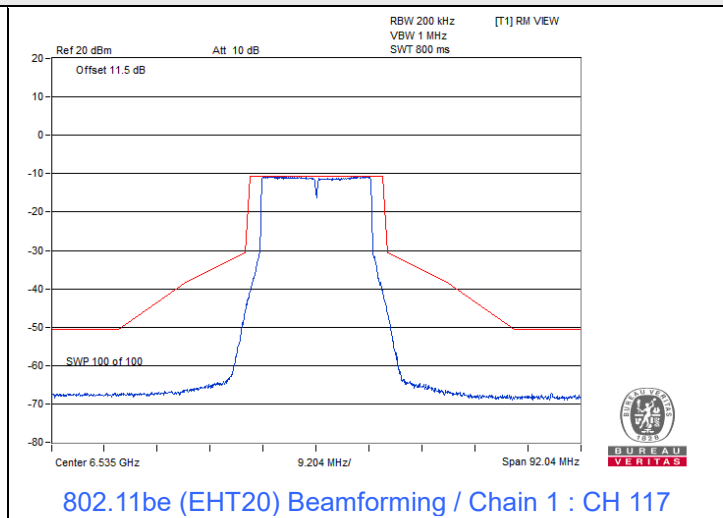
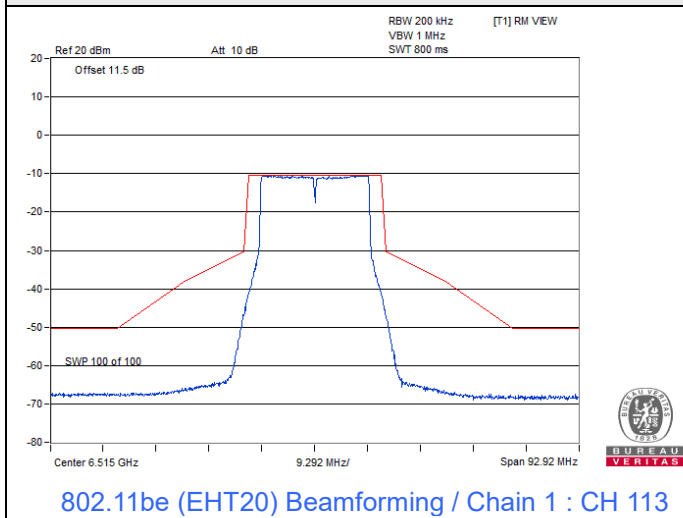


802.11be (EHT20) Beamforming / Chain 1 : CH 97

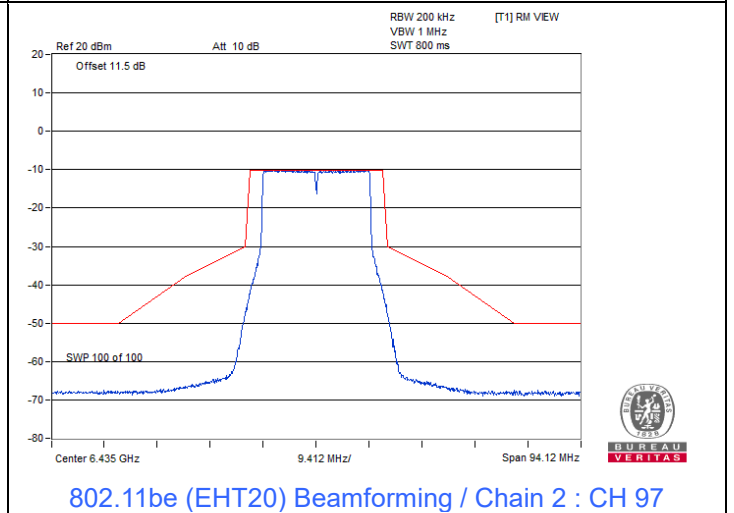
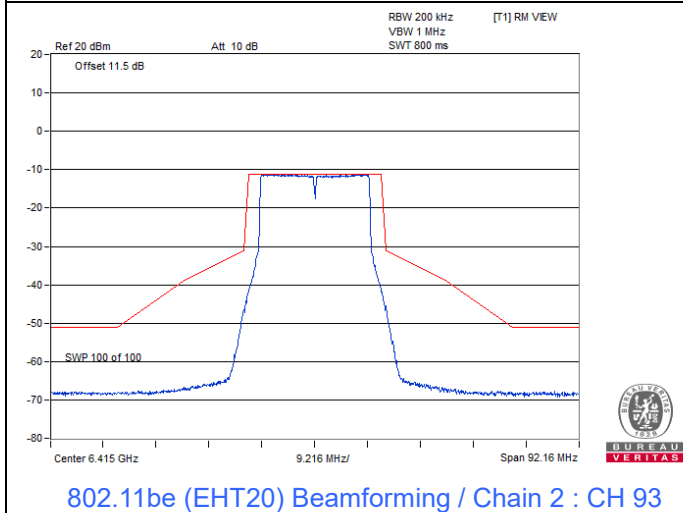
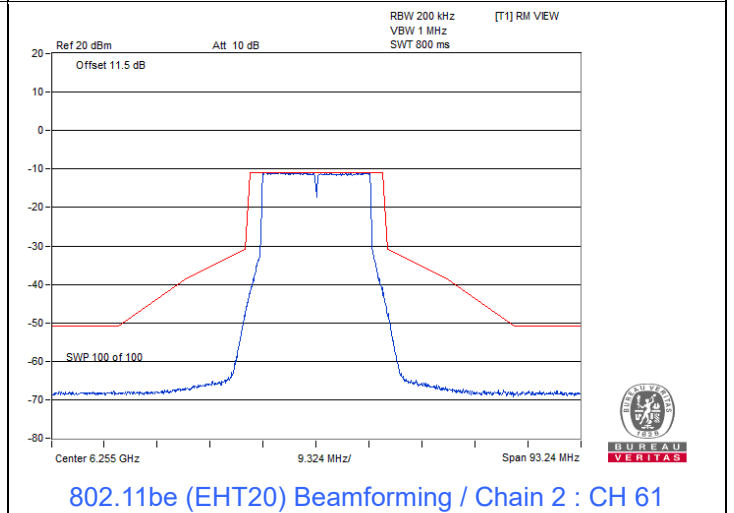
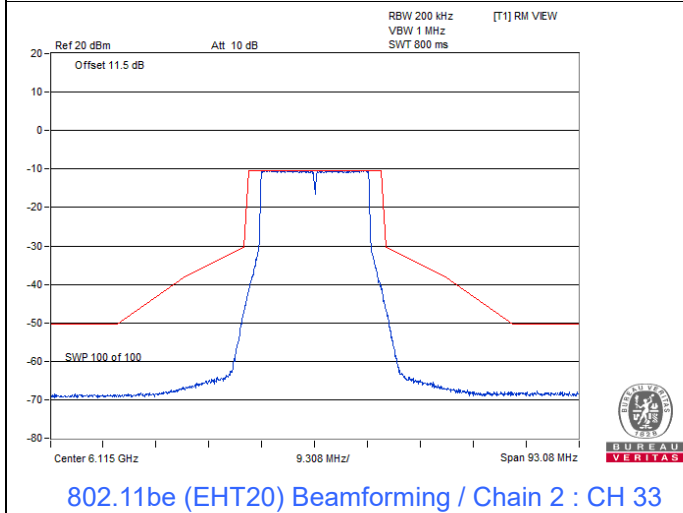
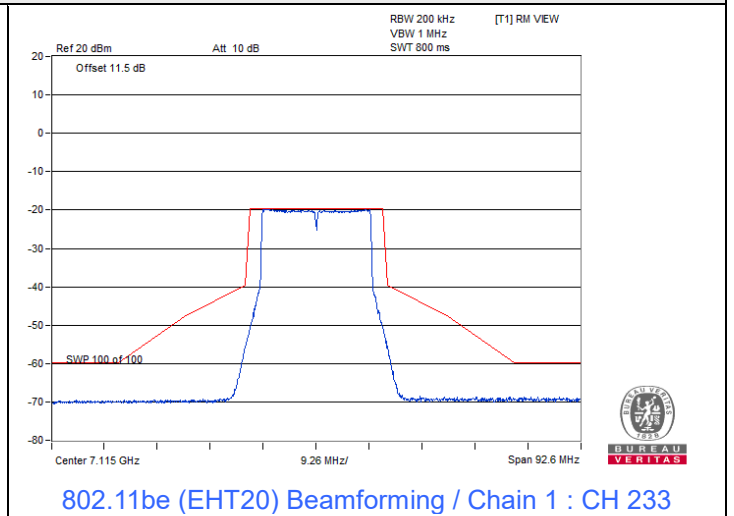
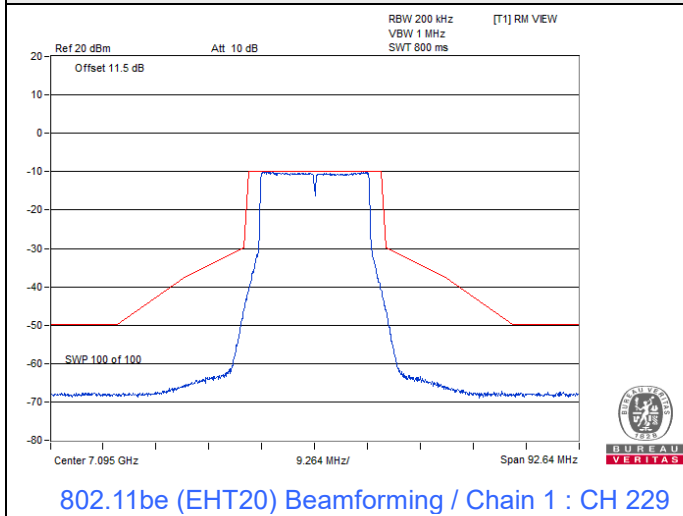


802.11be (EHT20) Beamforming / Chain 1 : CH 105

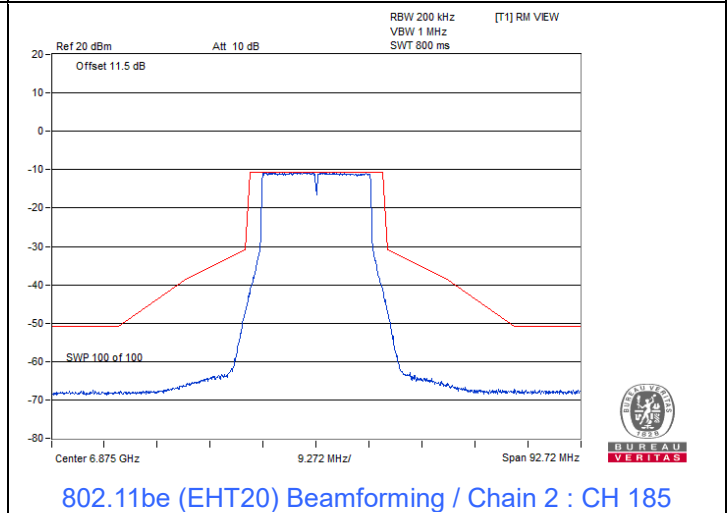
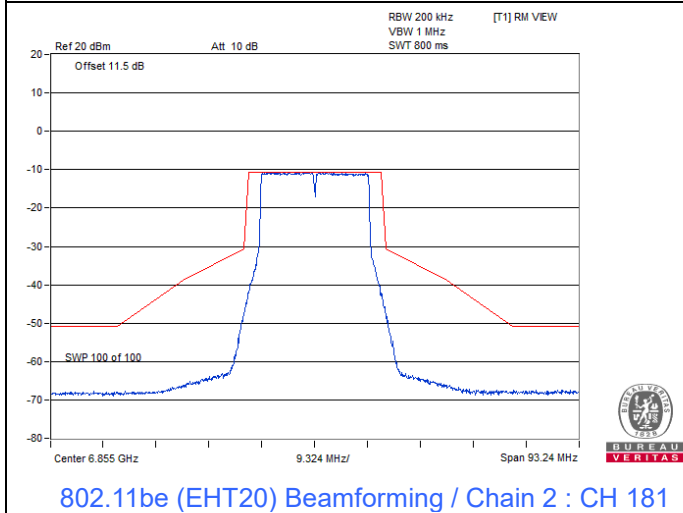
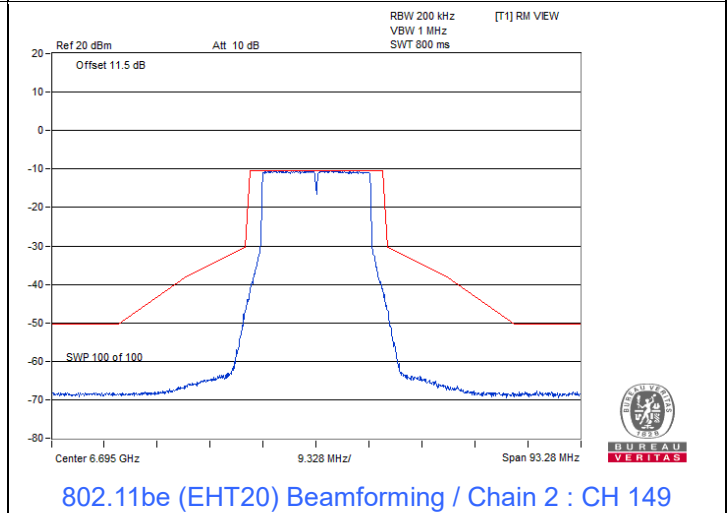
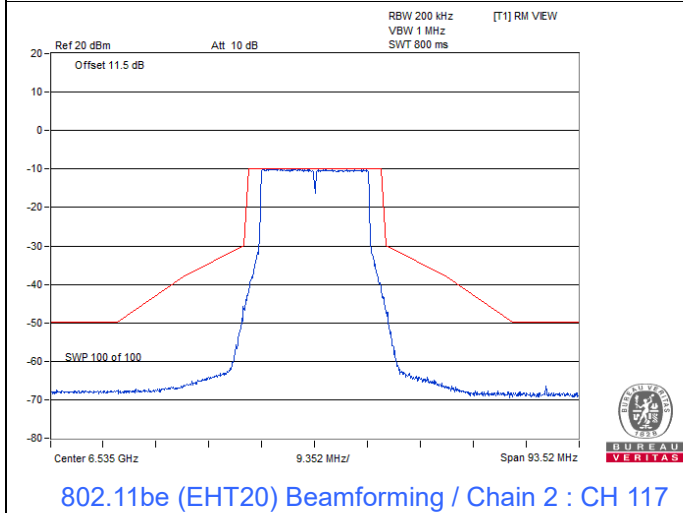
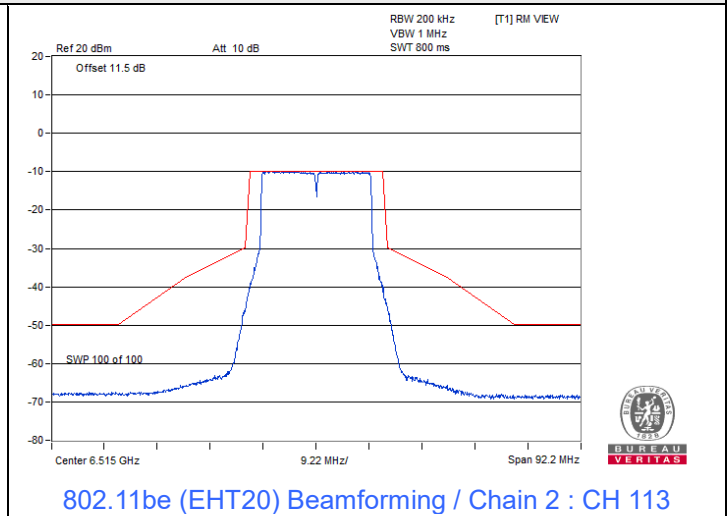
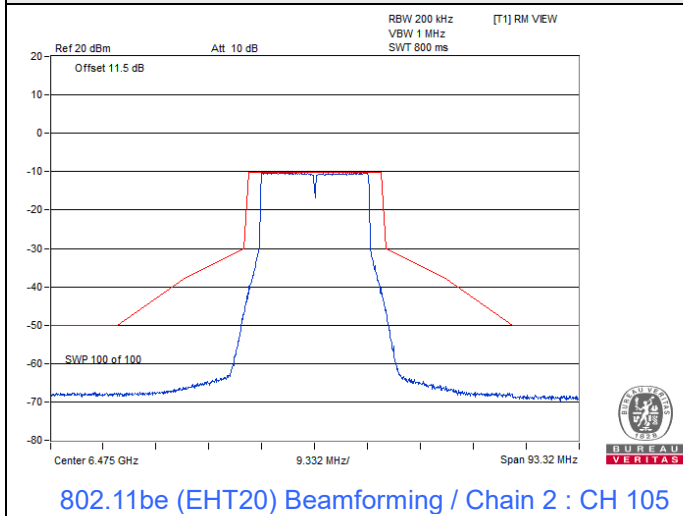
Spectrum Plot



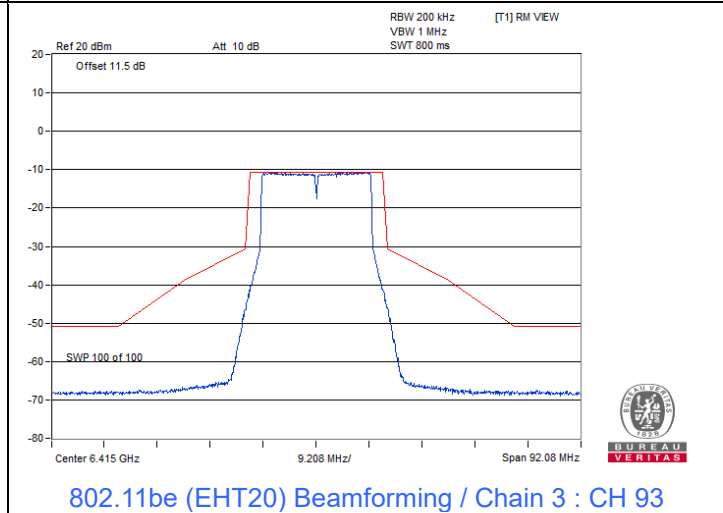
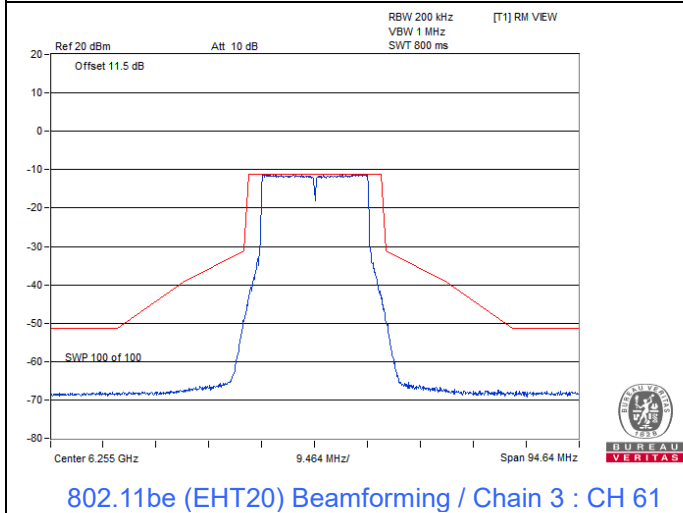
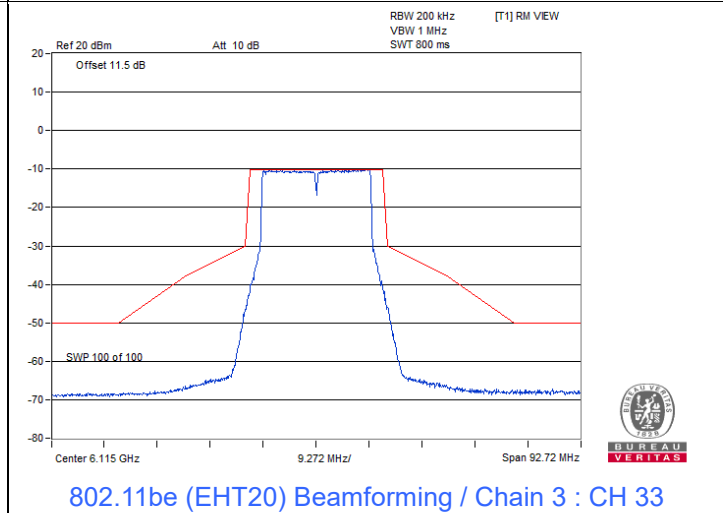
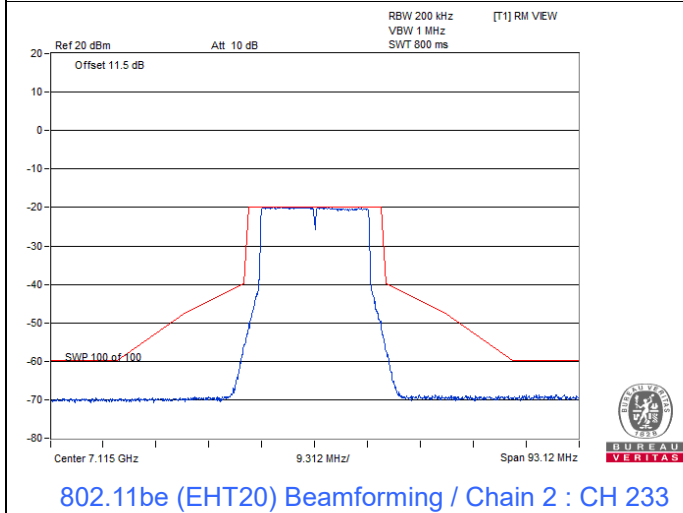
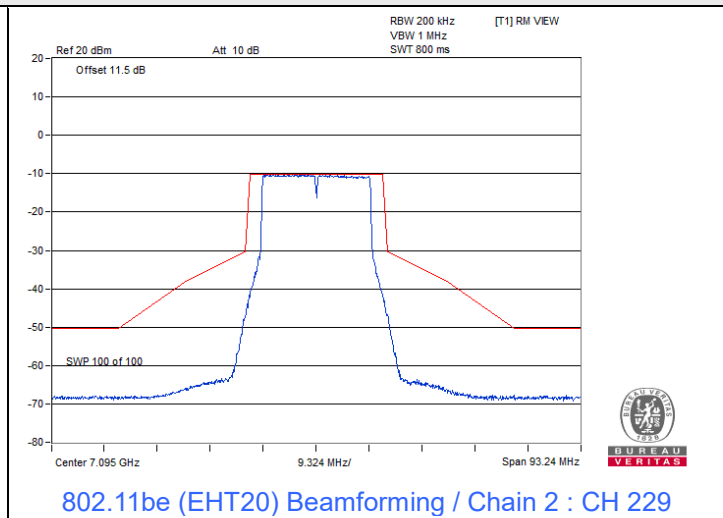
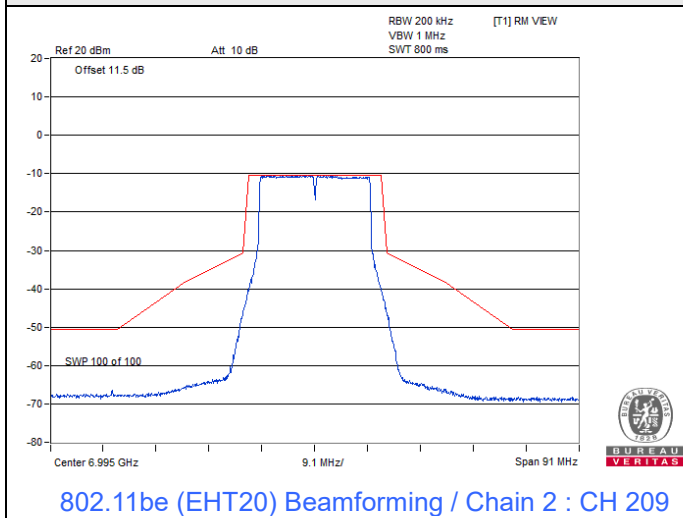
Spectrum Plot



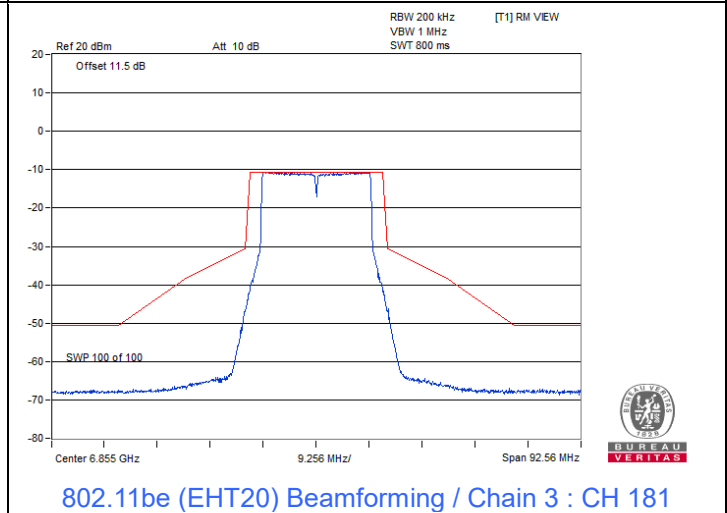
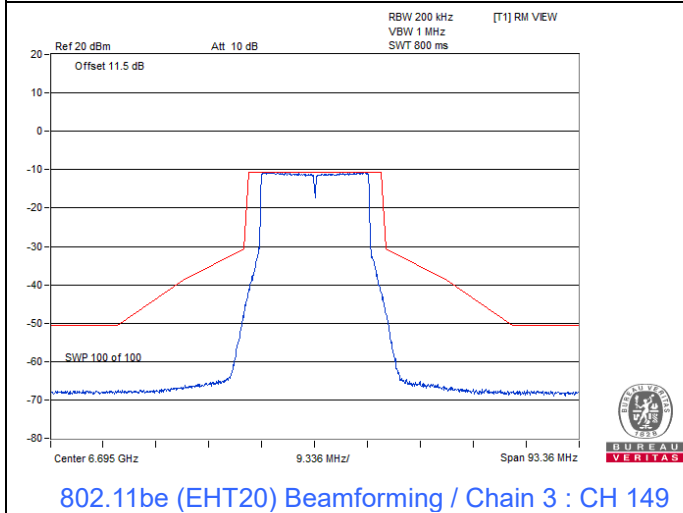
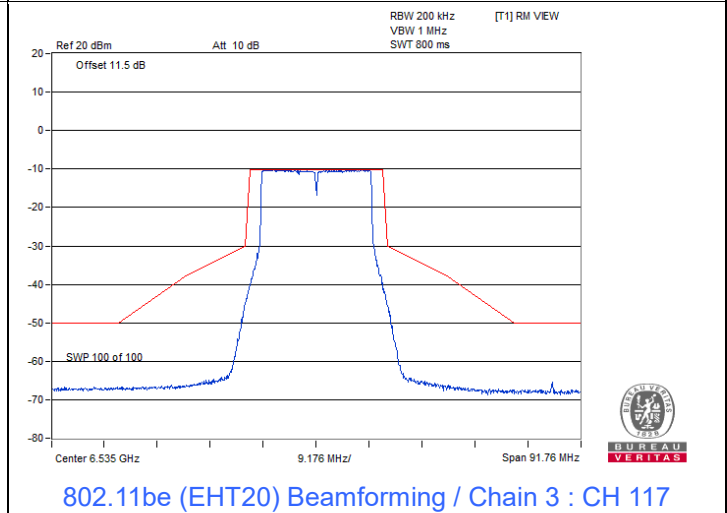
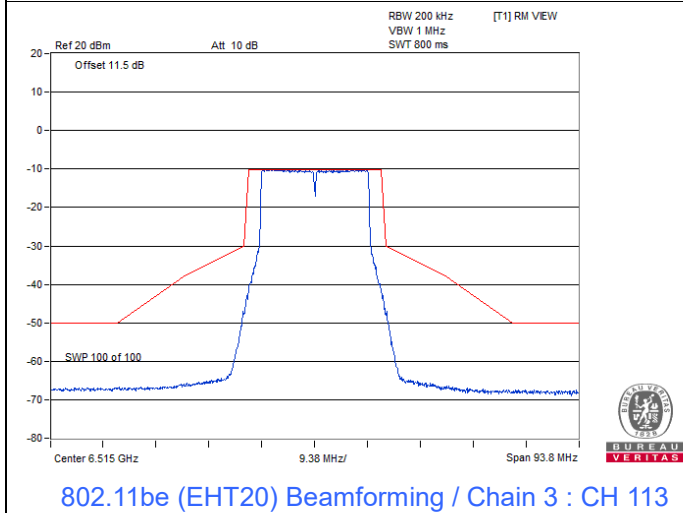
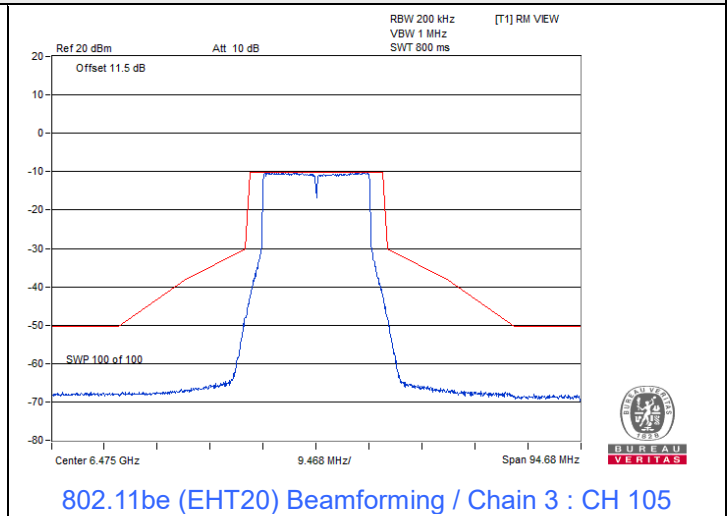
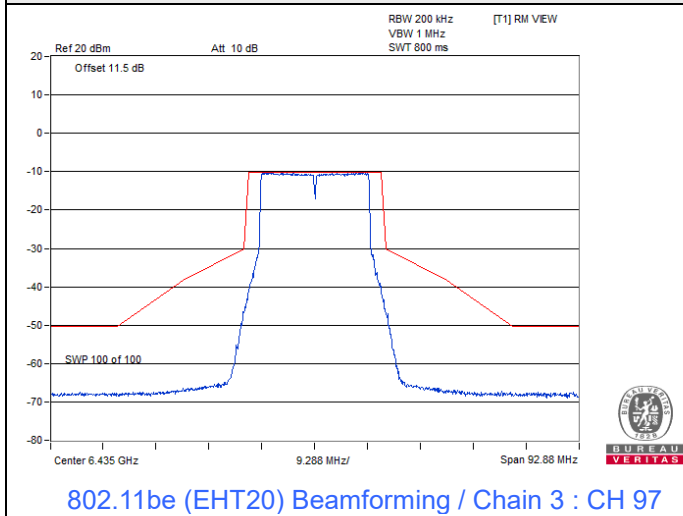
Spectrum Plot



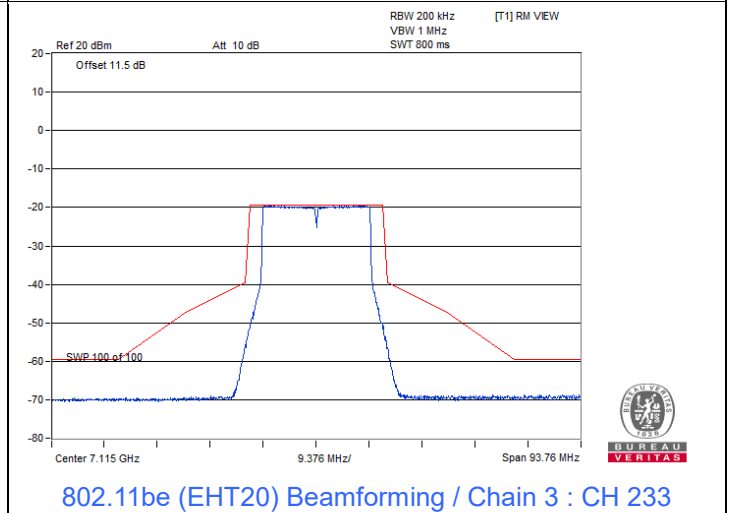
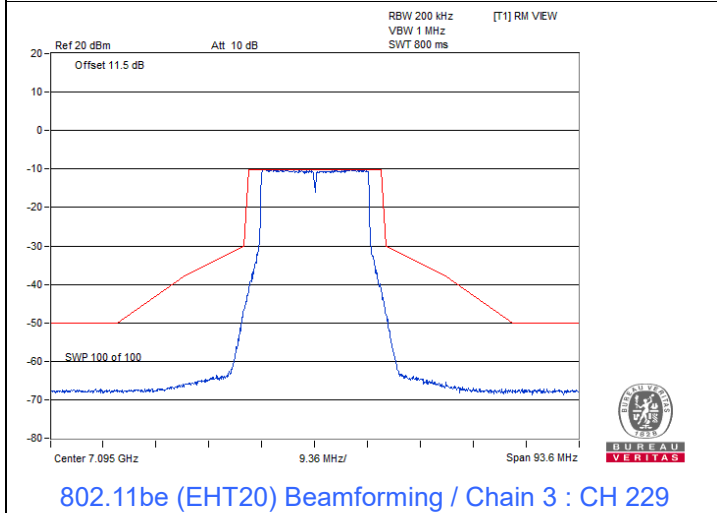
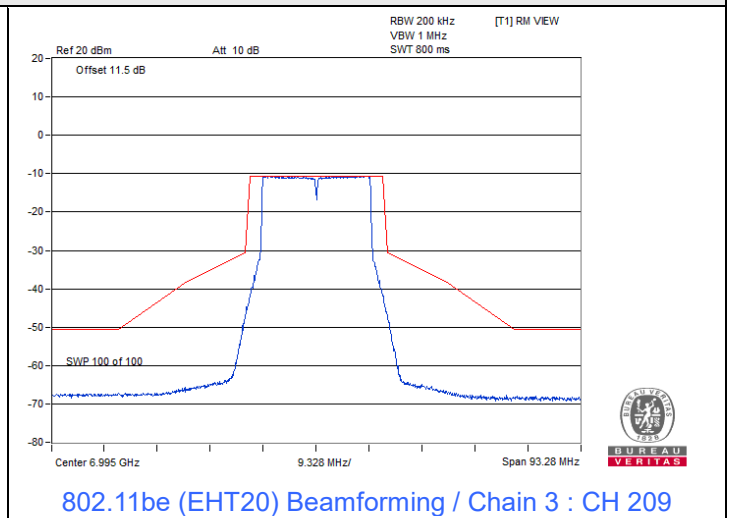
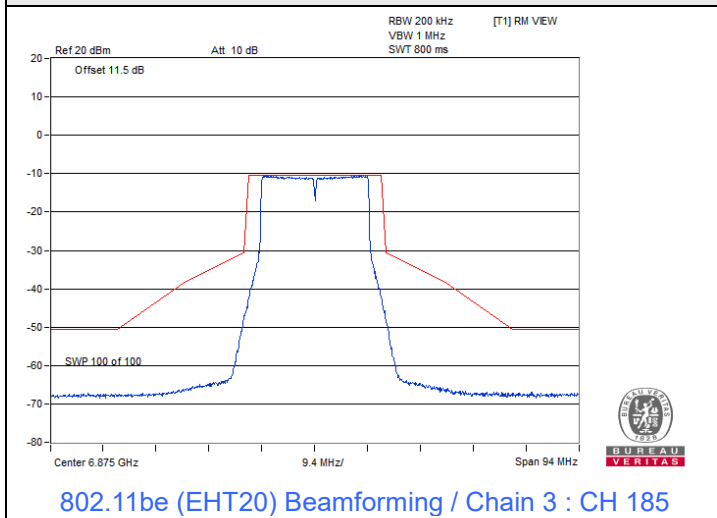
Spectrum Plot



Spectrum Plot

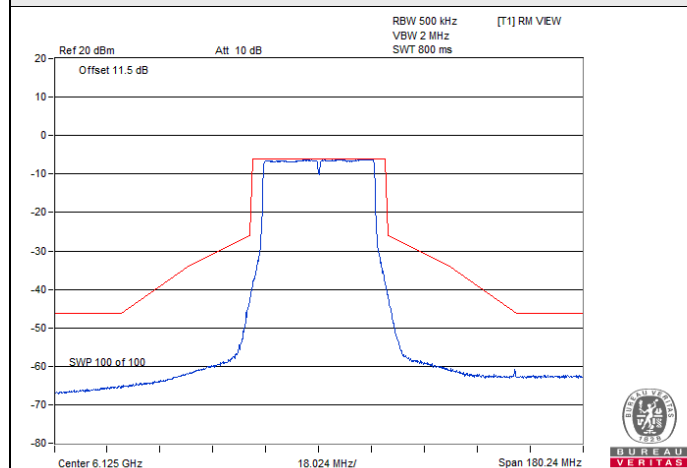


Spectrum Plot

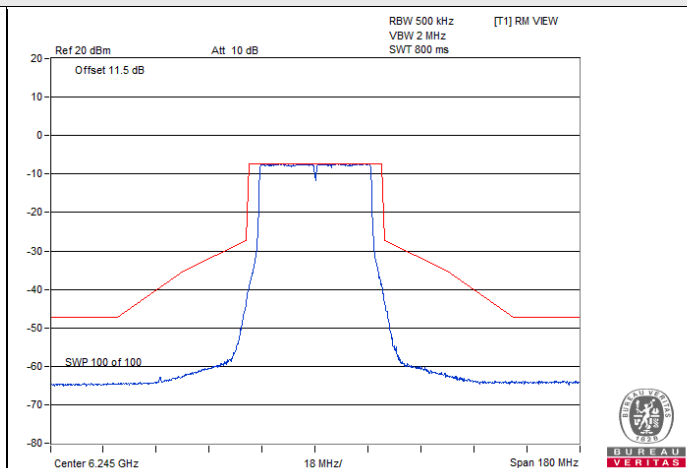


802.11be (EHT40) Beamforming

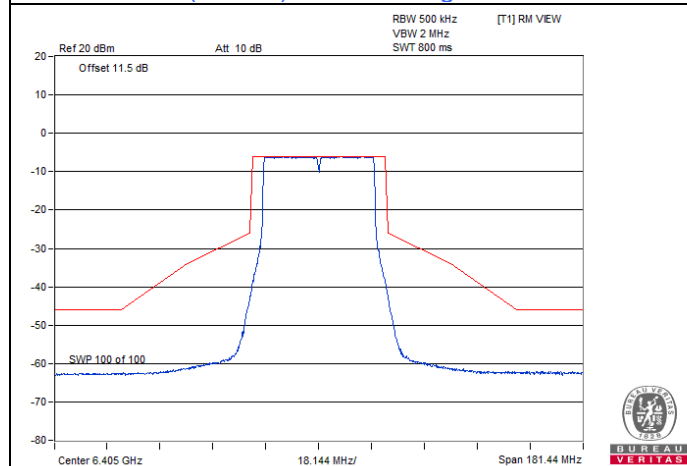
Spectrum Plot



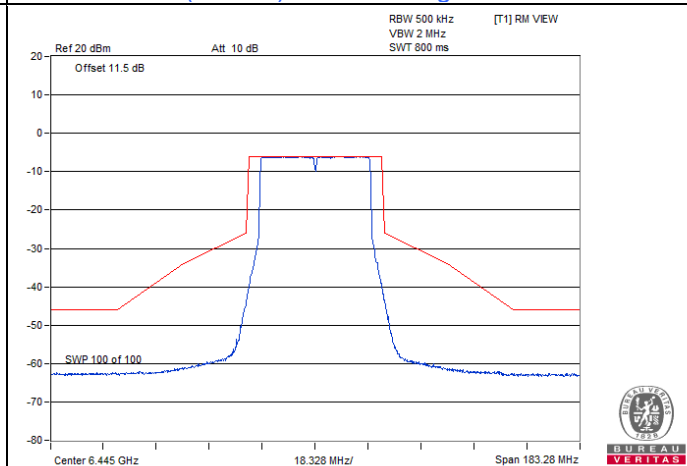
802.11be (EHT40) Beamforming / Chain 0 : CH 35



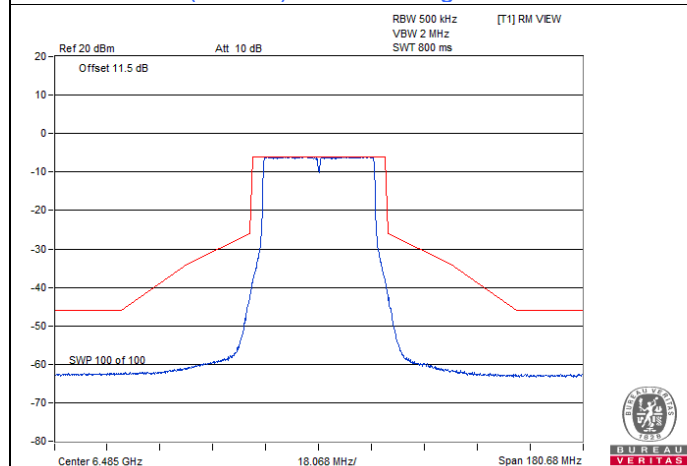
802.11be (EHT40) Beamforming / Chain 0 : CH 59



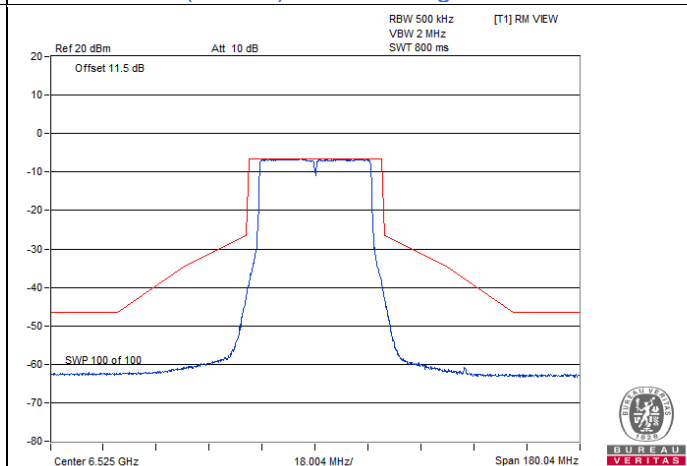
802.11be (EHT40) Beamforming / Chain 0 : CH 91



802.11be (EHT40) Beamforming / Chain 0 : CH 99

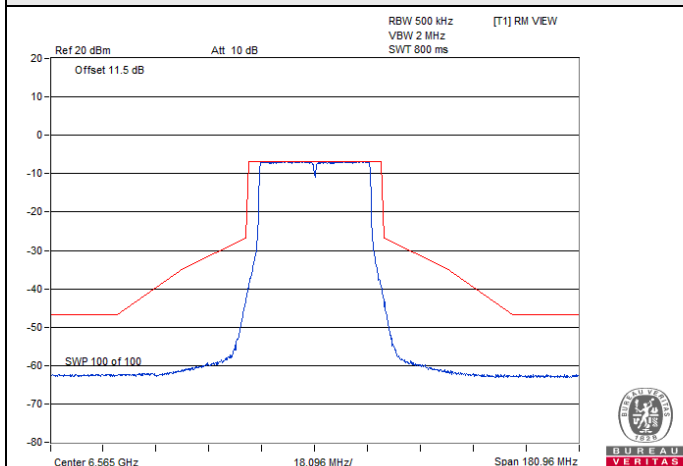


802.11be (EHT40) Beamforming / Chain 0 : CH 107

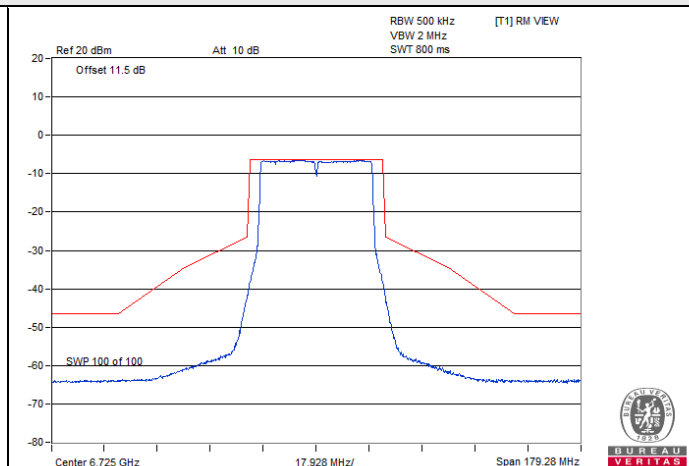


802.11be (EHT40) Beamforming / Chain 0 : CH 115

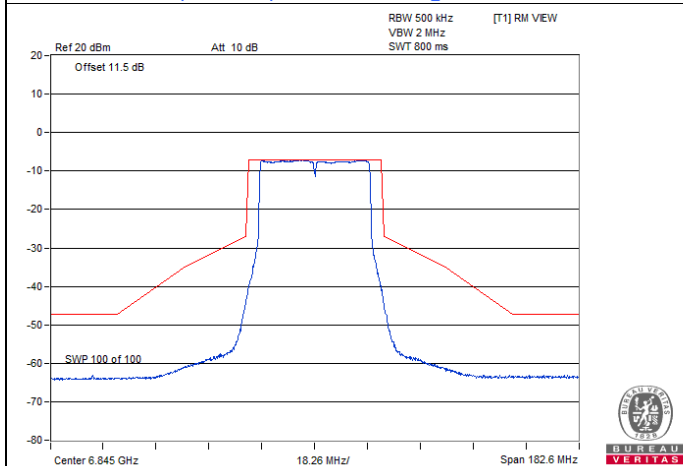
Spectrum Plot



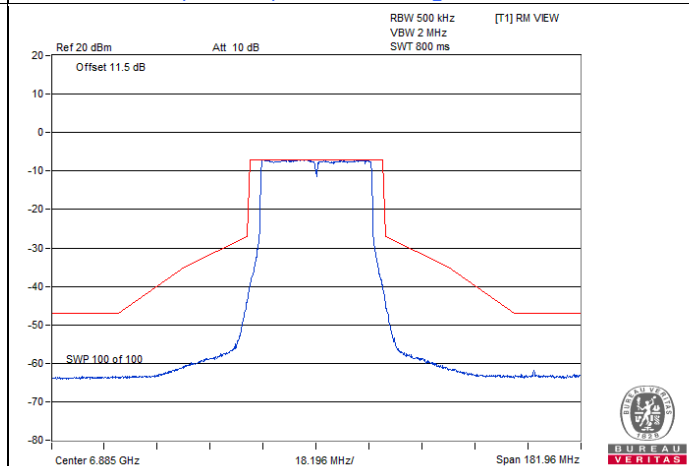
802.11be (EHT40) Beamforming / Chain 0 : CH 123



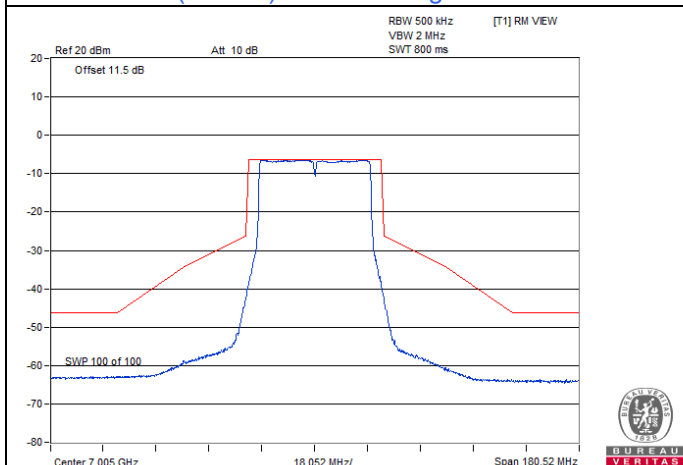
802.11be (EHT40) Beamforming / Chain 0 : CH 155



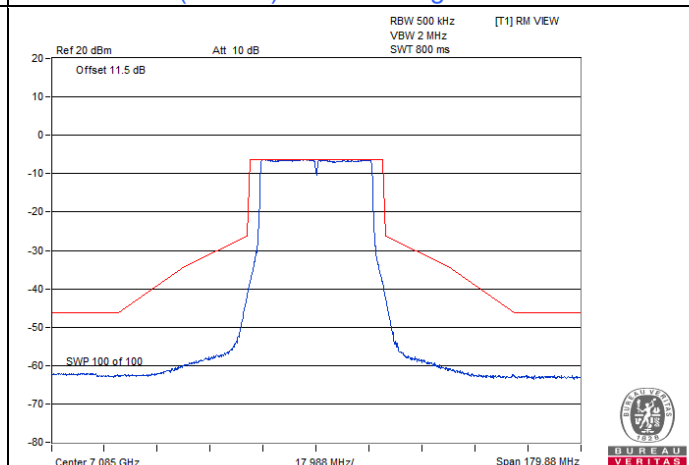
802.11be (EHT40) Beamforming / Chain 0 : CH 179



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

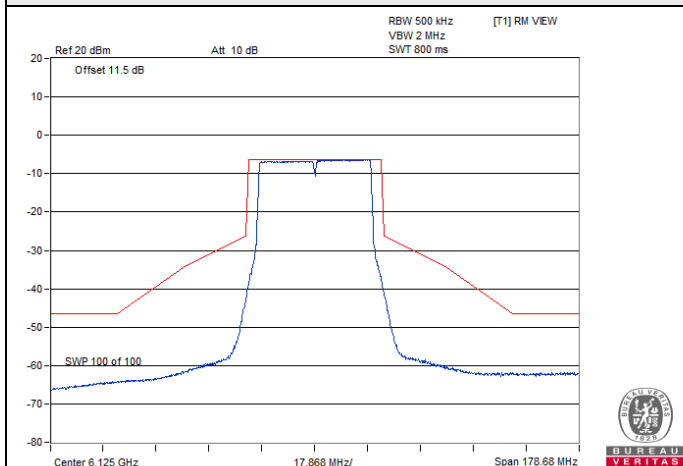


802.11be (EHT40) Beamforming / Chain 0 : CH 211

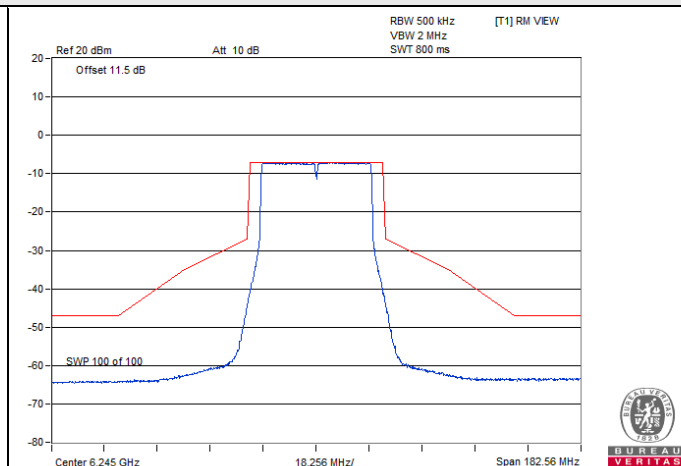


802.11be (EHT40) Beamforming / Chain 0 : CH 227

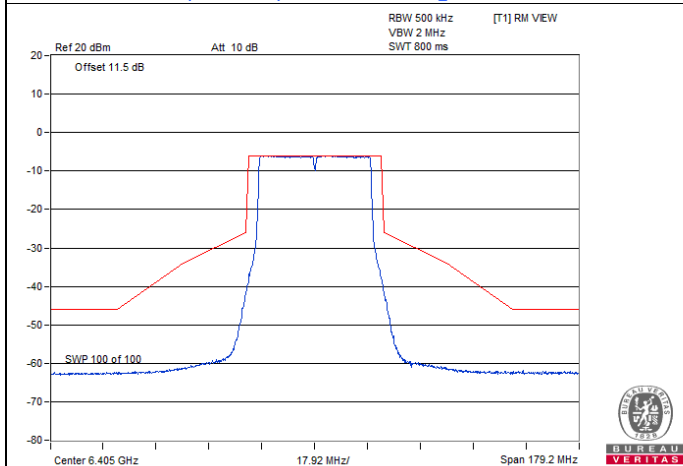
Spectrum Plot



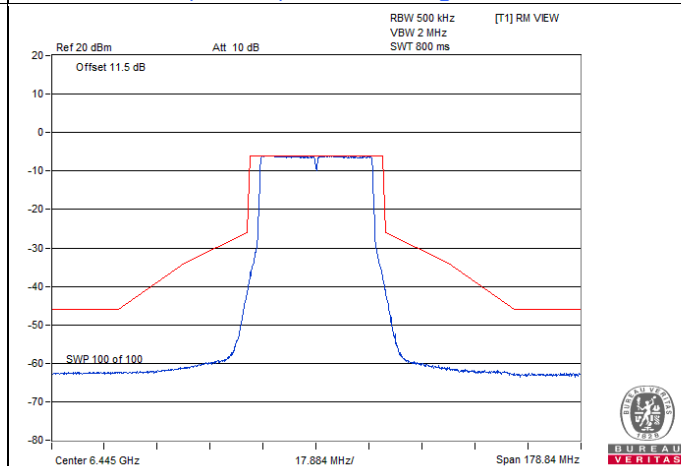
802.11be (EHT40) Beamforming / Chain 1 : CH 35



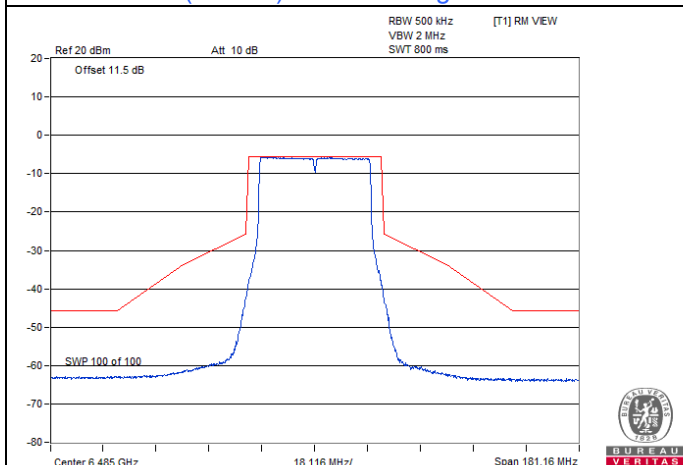
802.11be (EHT40) Beamforming / Chain 1 : CH 59



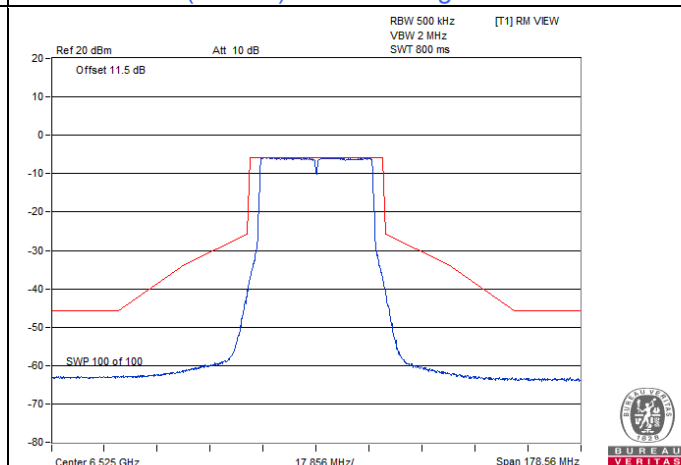
802.11be (EHT40) Beamforming / Chain 1 : CH 91



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

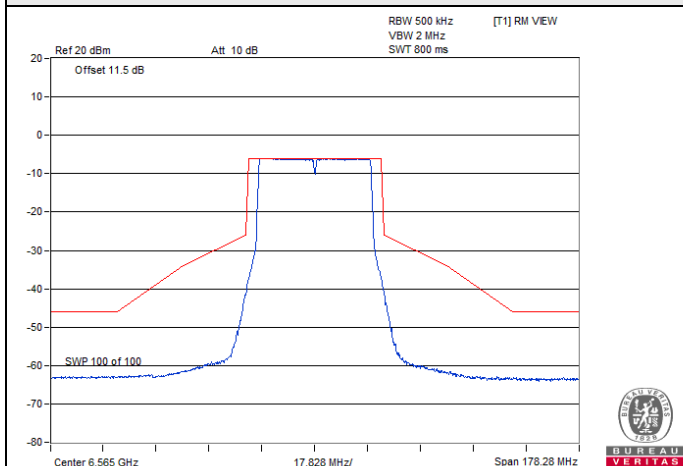


802.11be (EHT40) Beamforming / Chain 1 : CH 107

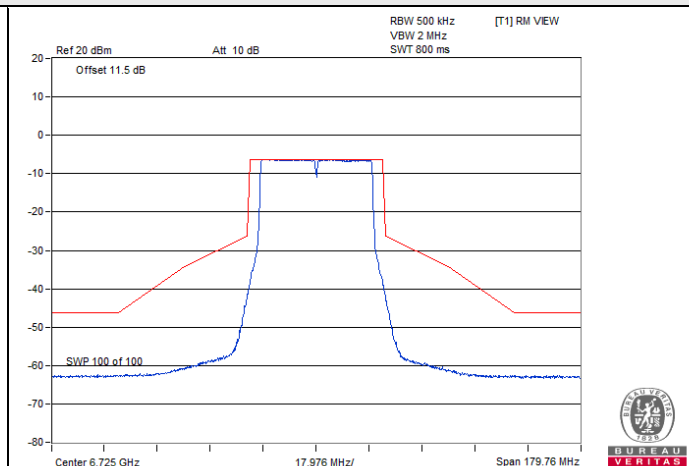


802.11be (EHT40) Beamforming / Chain 1 : CH 115

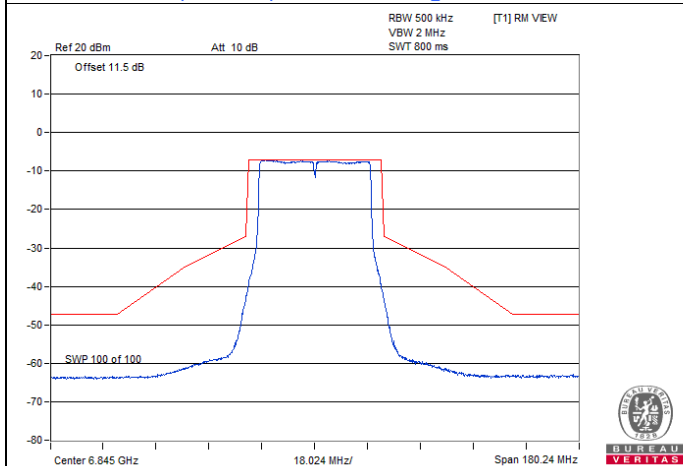
Spectrum Plot



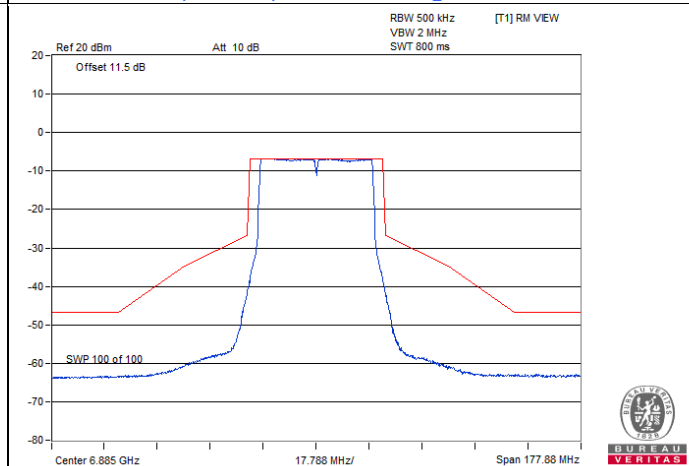
802.11be (EHT40) Beamforming / Chain 1 : CH 123



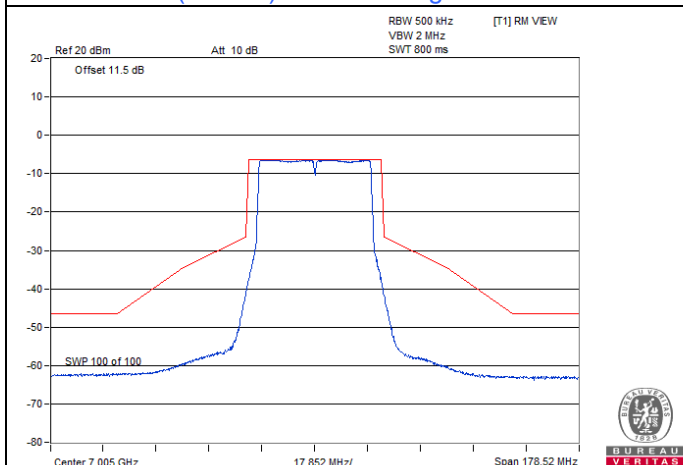
802.11be (EHT40) Beamforming / Chain 1 : CH 155



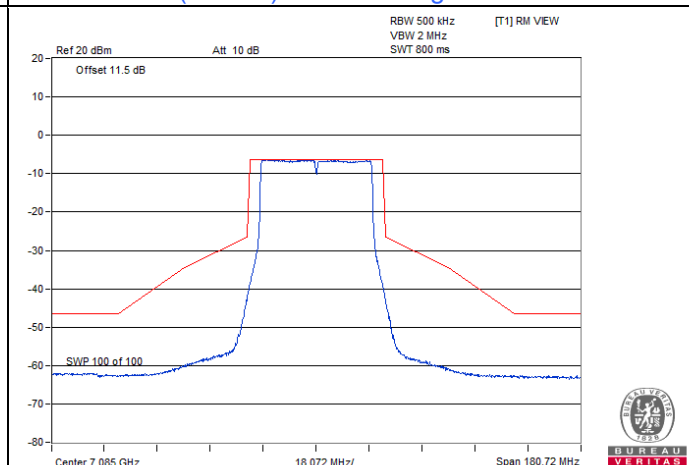
802.11be (EHT40) Beamforming / Chain 1 : CH 179



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

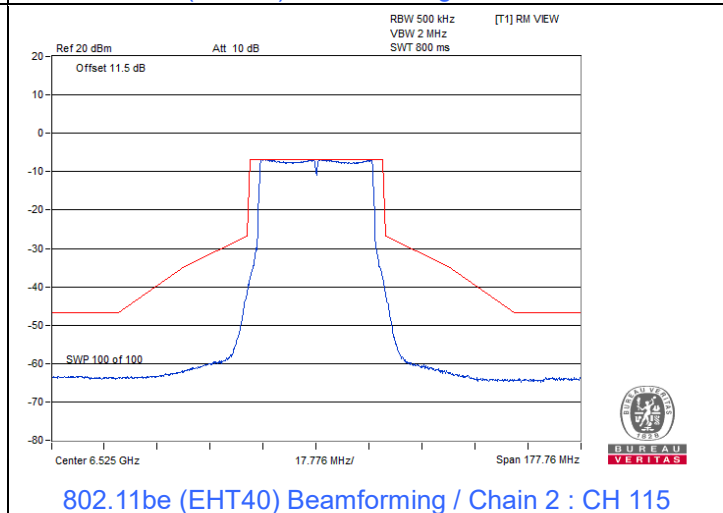
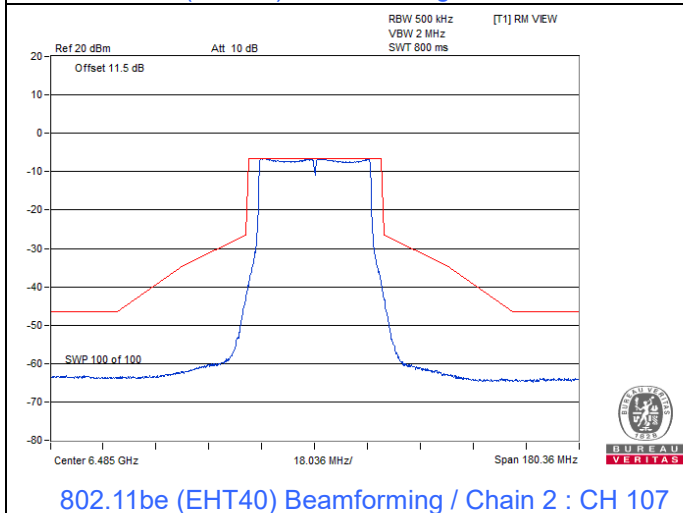
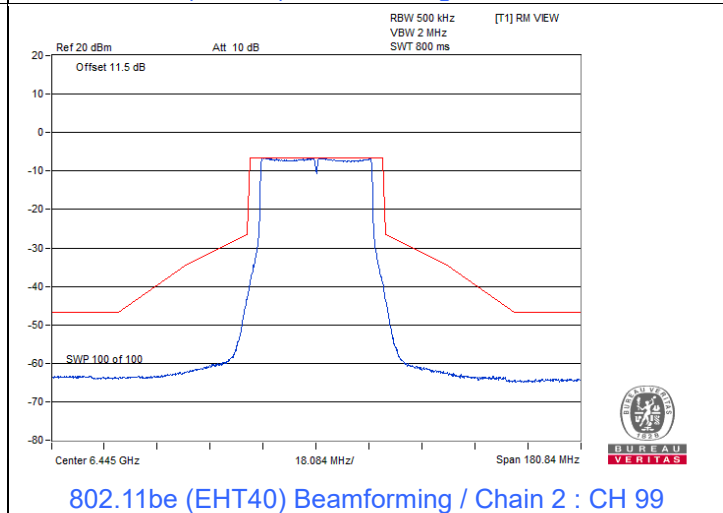
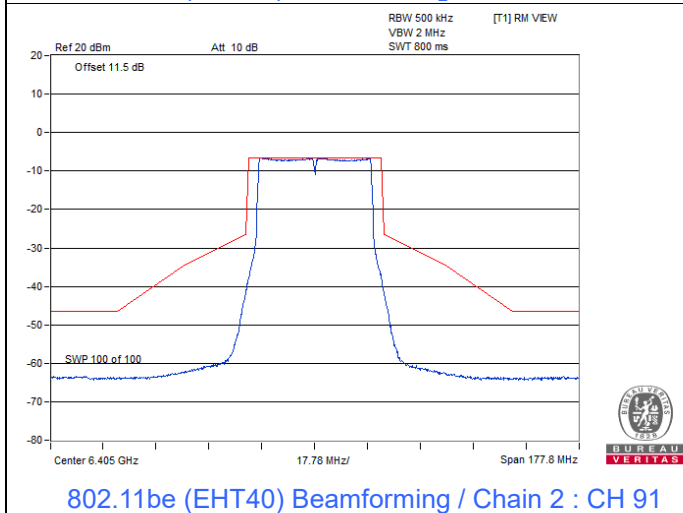
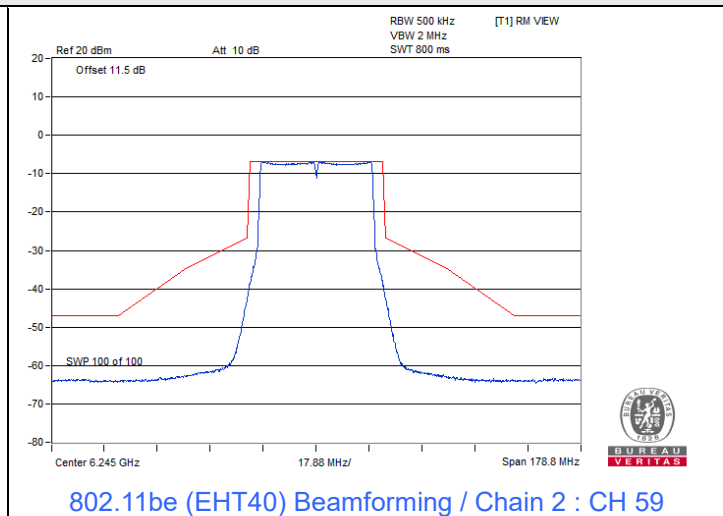
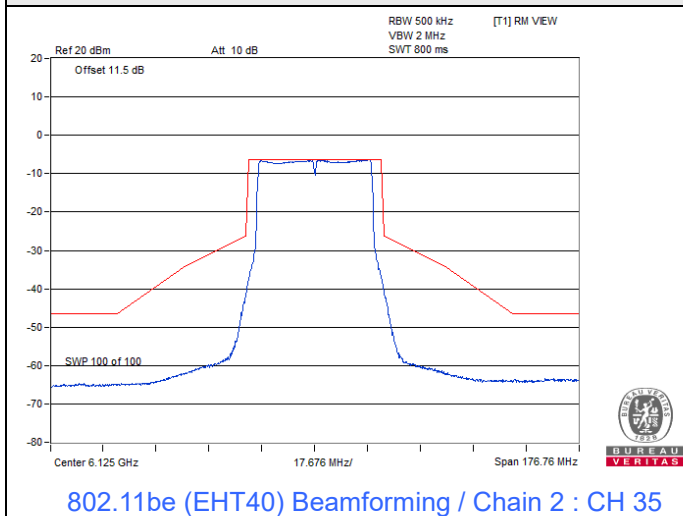


802.11be (EHT40) Beamforming / Chain 1 : CH 211

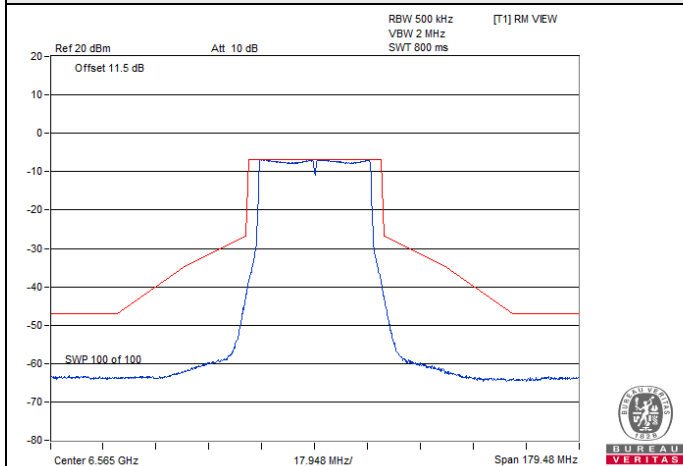


802.11be (EHT40) Beamforming / Chain 1 : CH 227

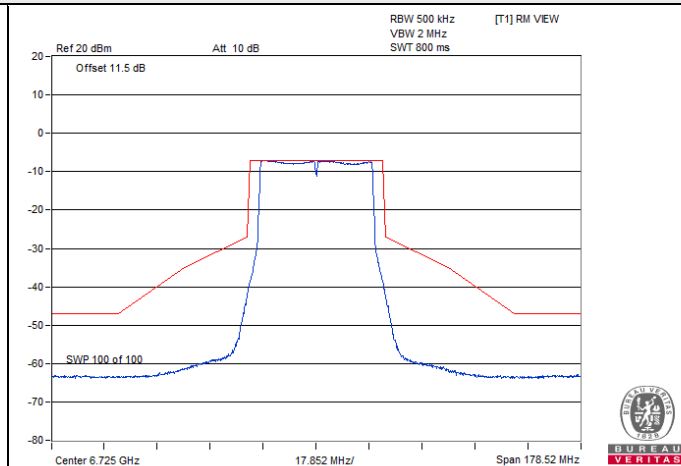
Spectrum Plot



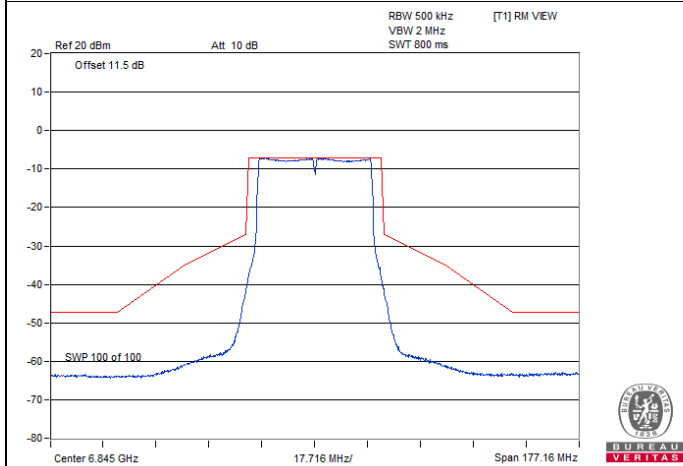
Spectrum Plot



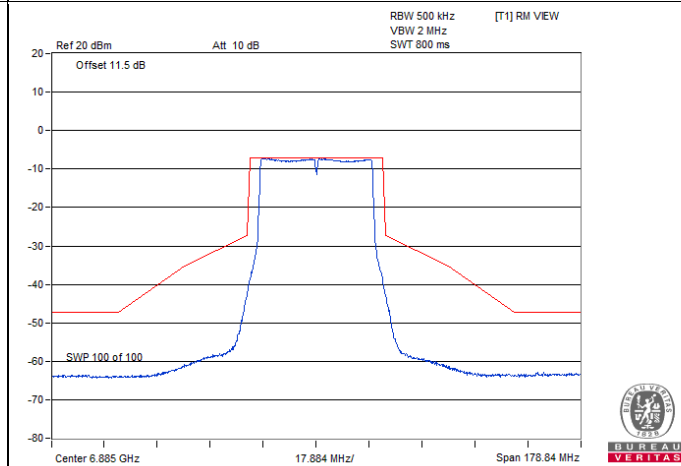
802.11be (EHT40) Beamforming / Chain 2 : CH 123



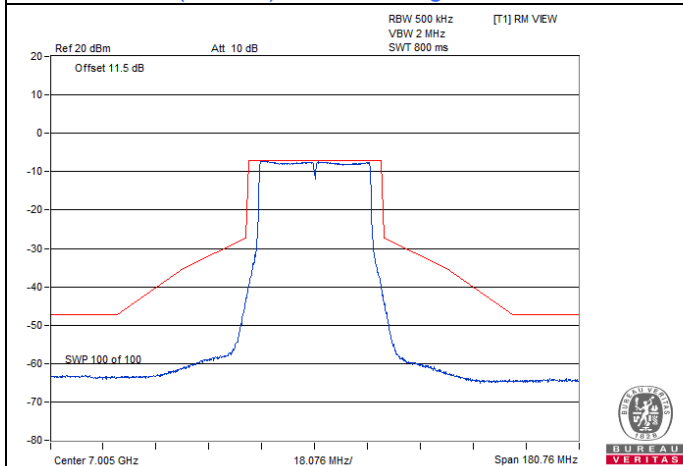
802.11be (EHT40) Beamforming / Chain 2 : CH 155



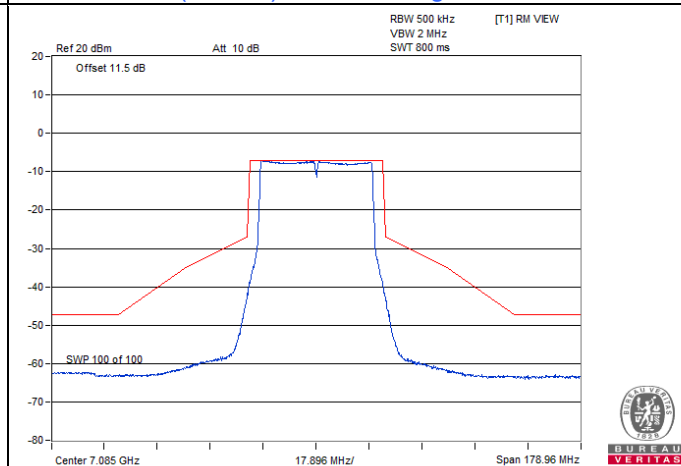
802.11be (EHT40) Beamforming / Chain 2 : CH 179



802.11be (EHT40) Beamforming / Chain 2 : CH 187

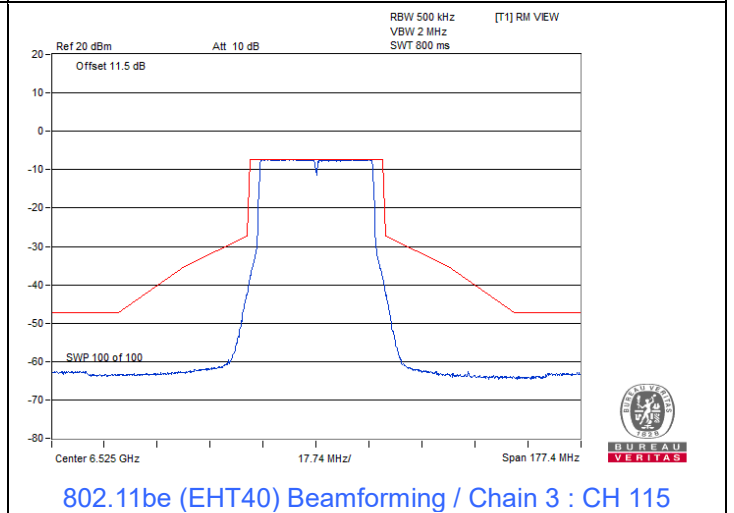
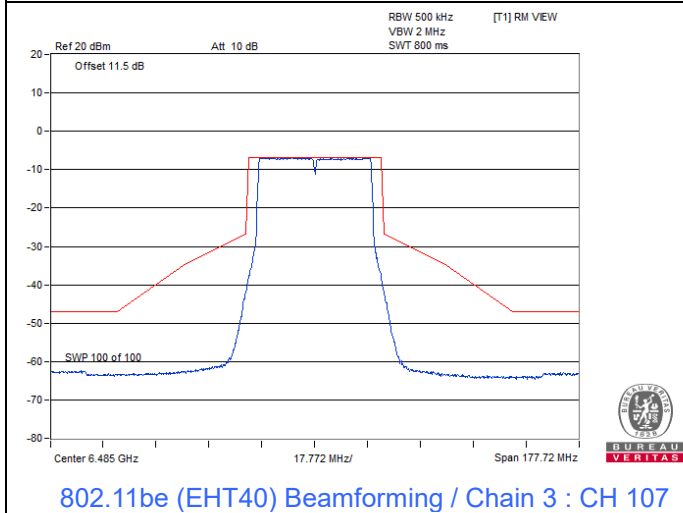
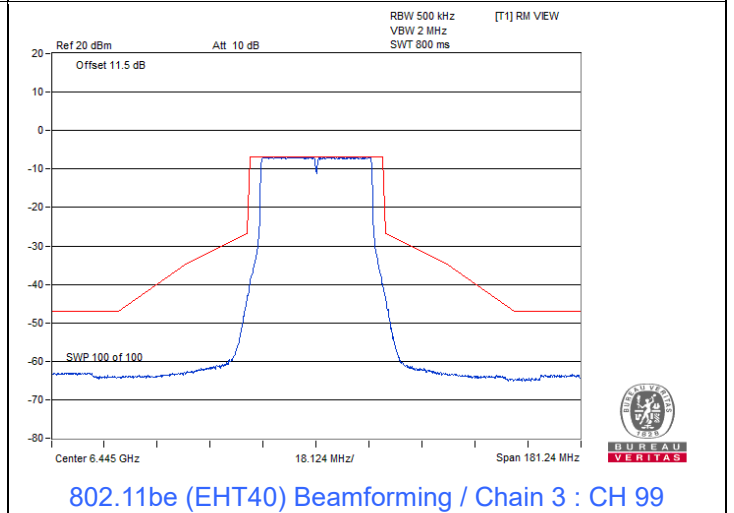
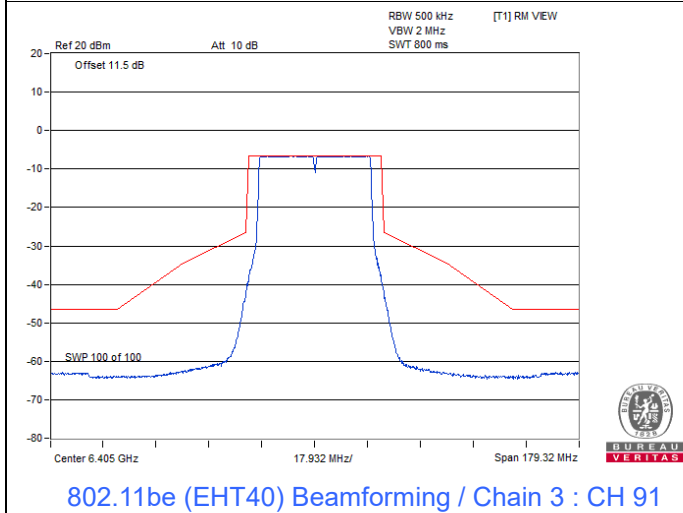
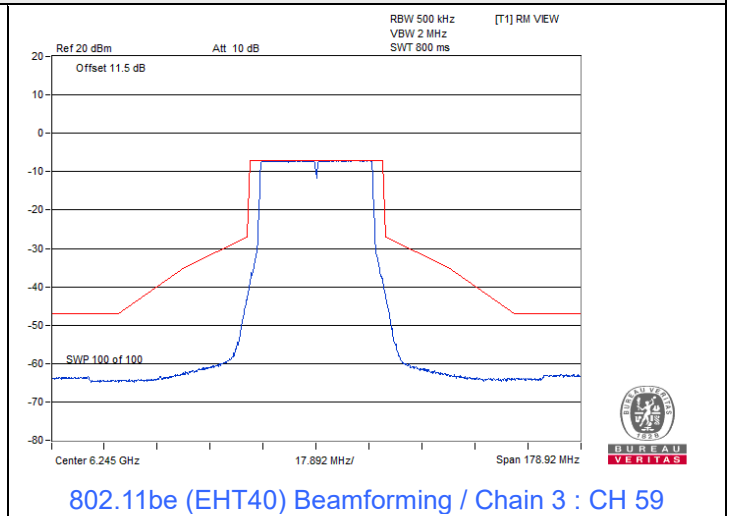
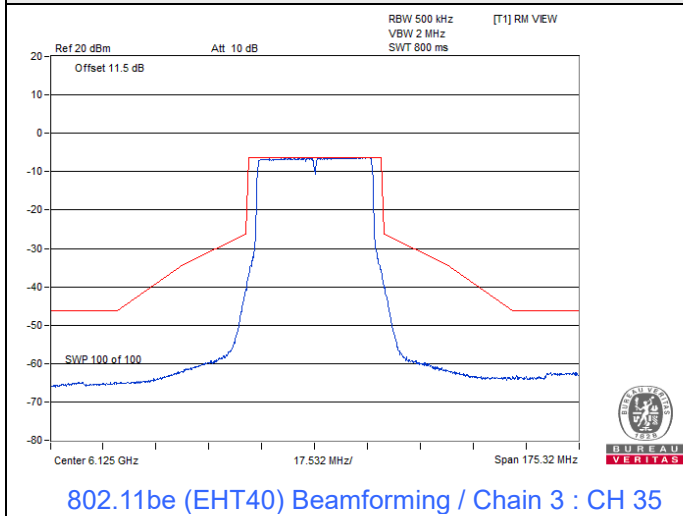


802.11be (EHT40) Beamforming / Chain 2 : CH 211

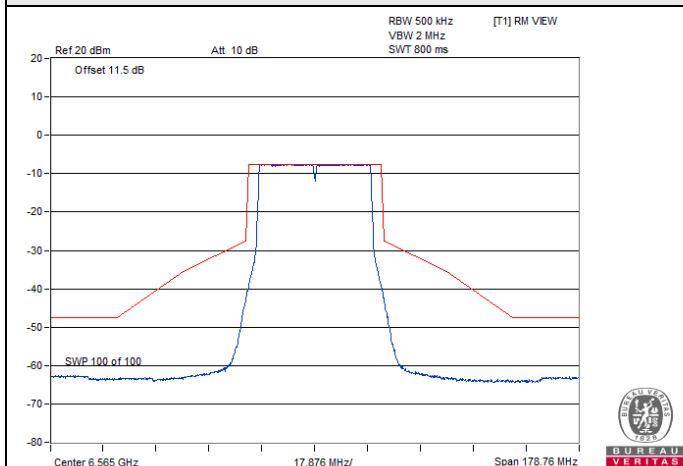


802.11be (EHT40) Beamforming / Chain 2 : CH 227

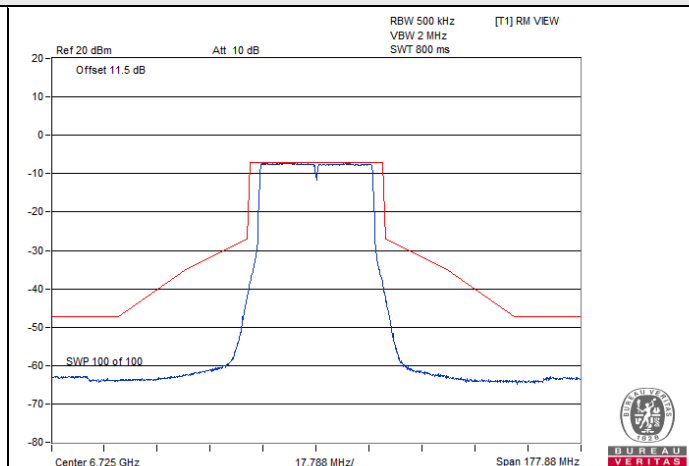
Spectrum Plot



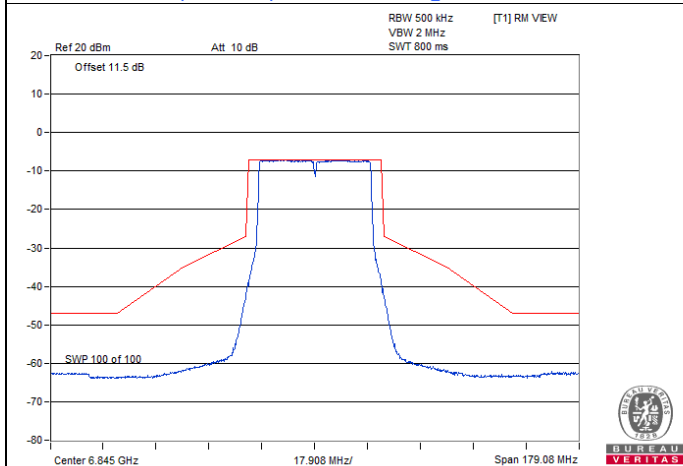
Spectrum Plot



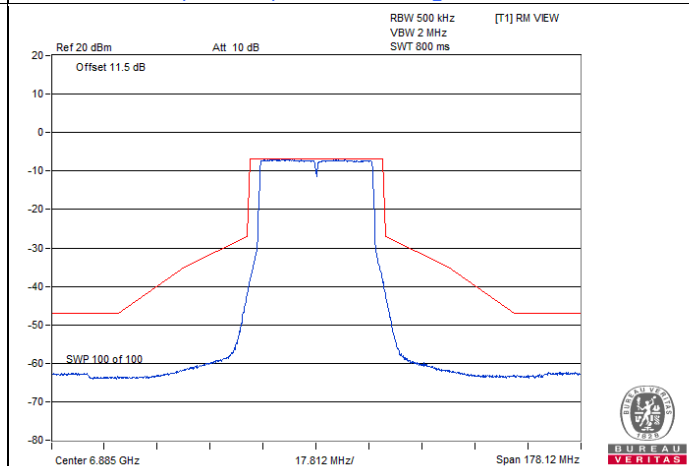
802.11be (EHT40) Beamforming / Chain 3 : CH 123



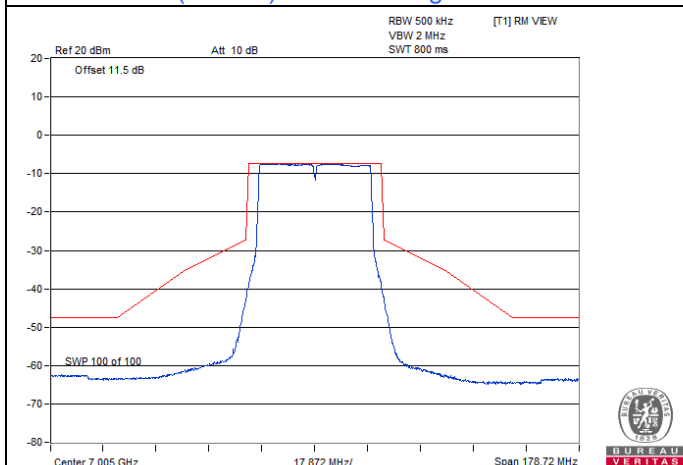
802.11be (EHT40) Beamforming / Chain 3 : CH 155



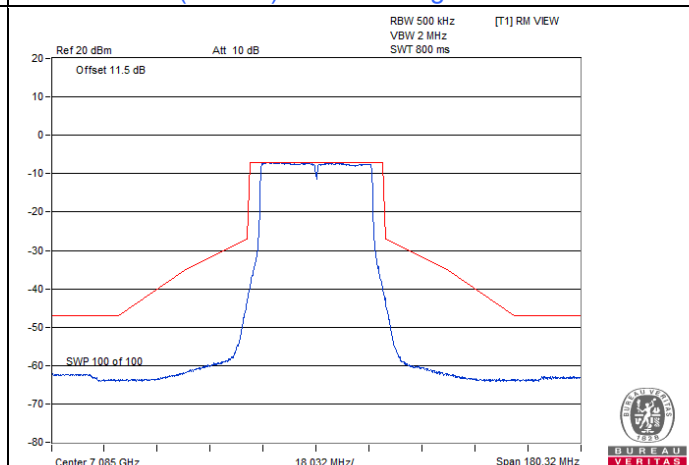
802.11be (EHT40) Beamforming / Chain 3 : CH 179



802.11be (EHT40) Beamforming / Chain 3 : CH 187



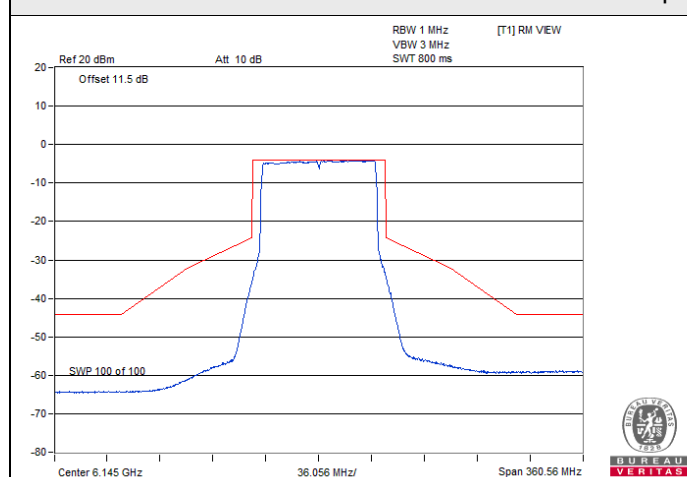
802.11be (EHT40) Beamforming / Chain 3 : CH 211



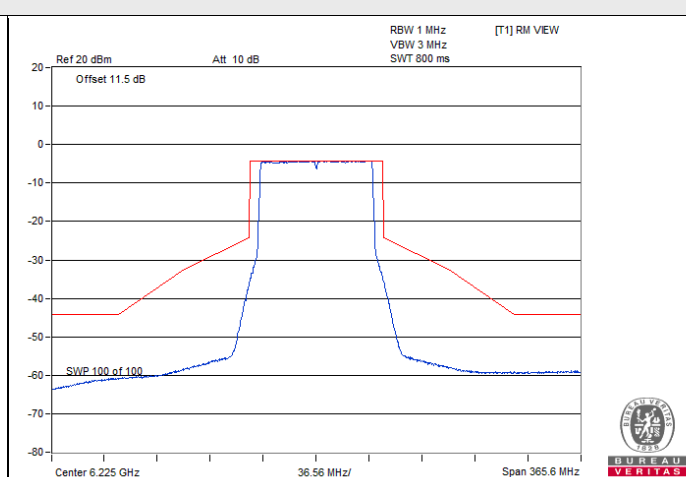
802.11be (EHT40) Beamforming / Chain 3 : CH 227

802.11be (EHT80) Beamforming

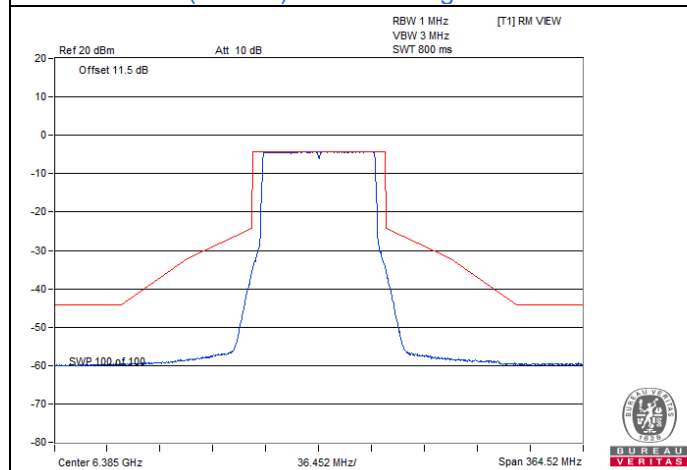
Spectrum Plot



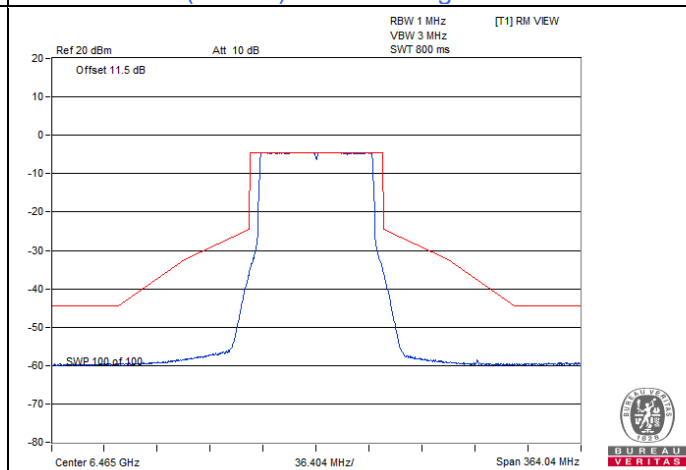
802.11be (EHT80) Beamforming / Chain 0 : CH 39



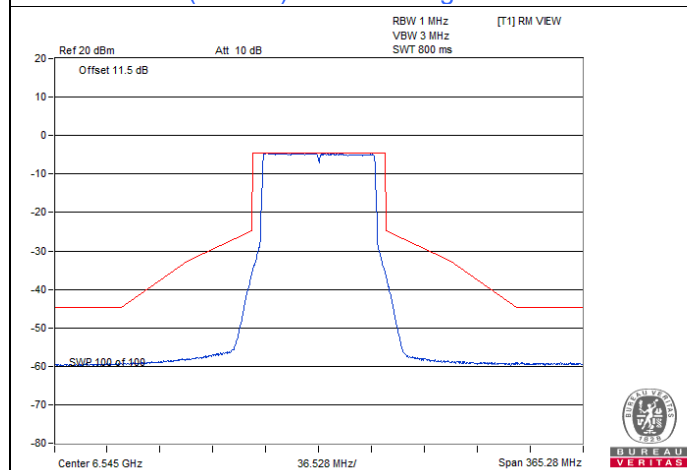
802.11be (EHT80) Beamforming / Chain 0 : CH 55



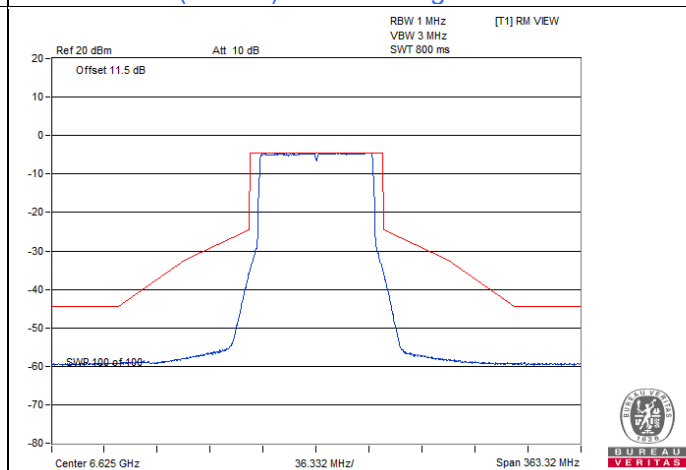
802.11be (EHT80) Beamforming / Chain 0 : CH 87



802.11be (EHT80) Beamforming / Chain 0 : CH 103

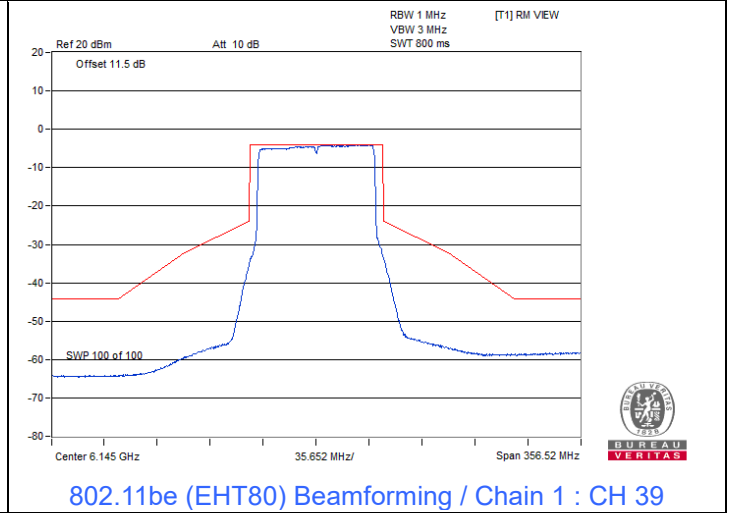
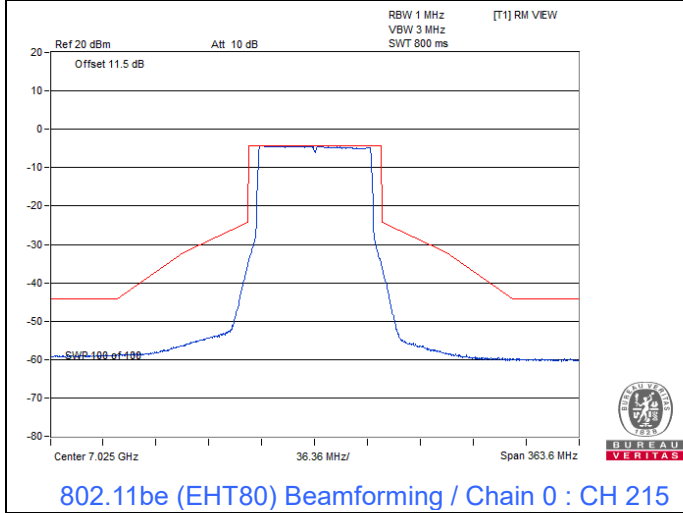
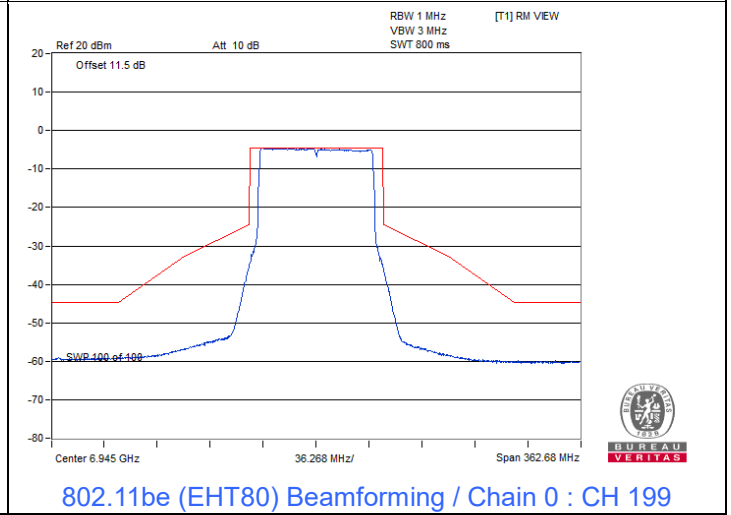
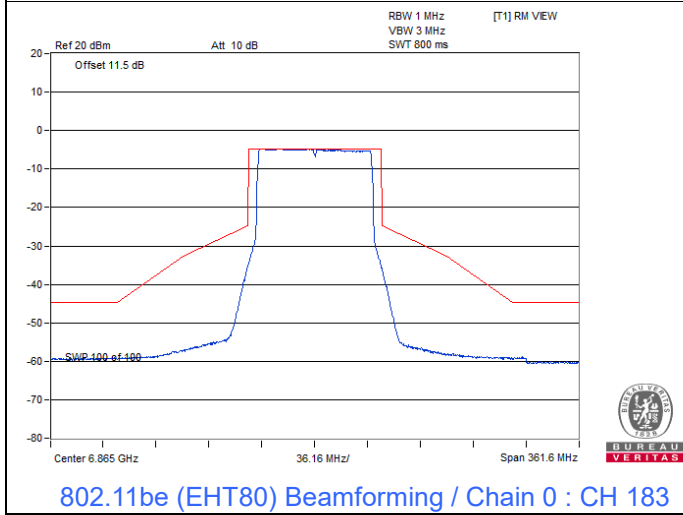
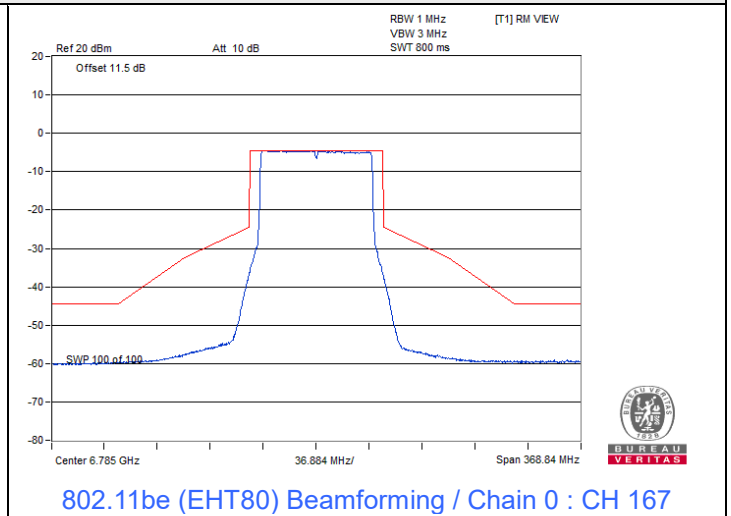
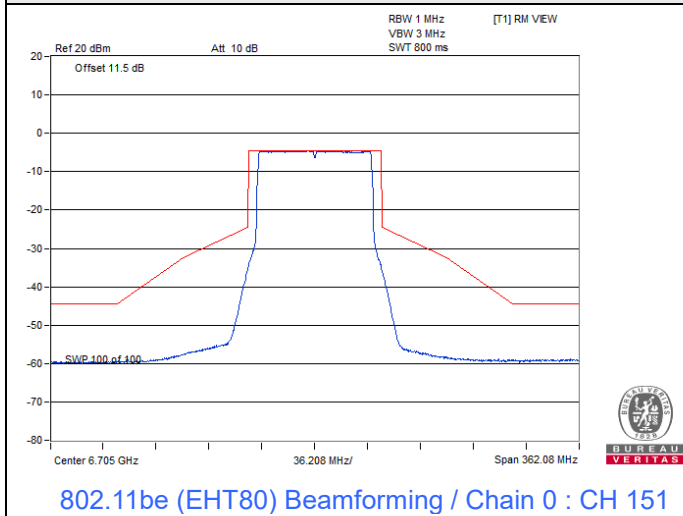


802.11be (EHT80) Beamforming / Chain 0 : CH 119

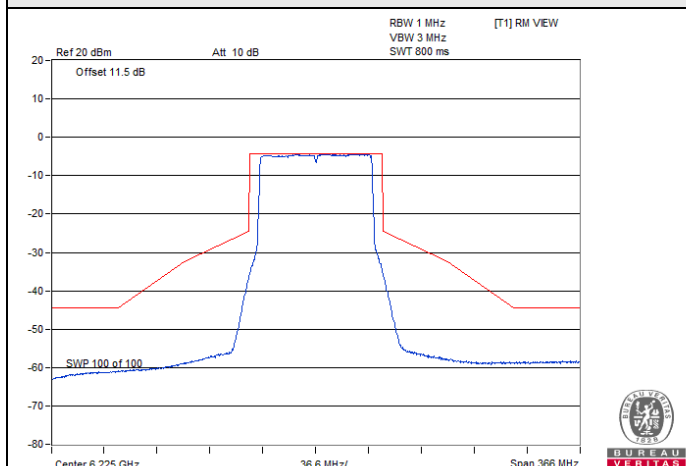


802.11be (EHT80) Beamforming / Chain 0 : CH 135

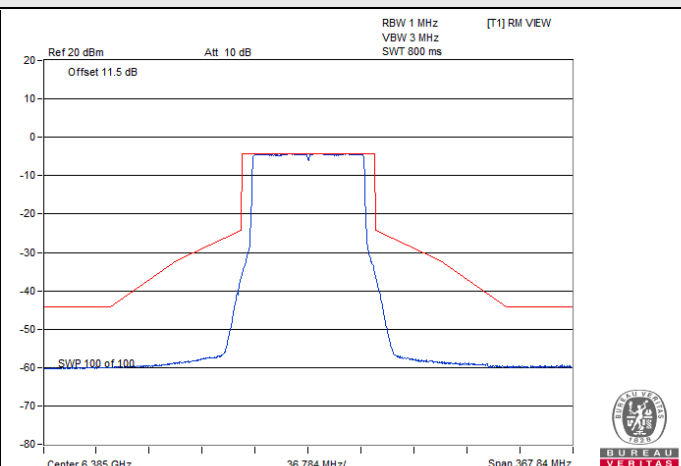
Spectrum Plot



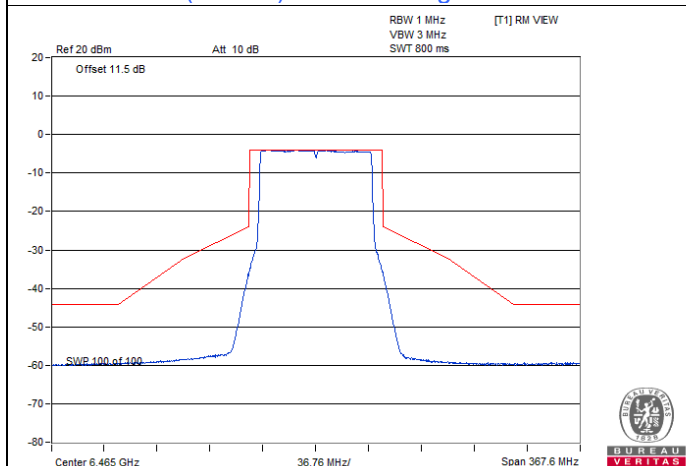
Spectrum Plot



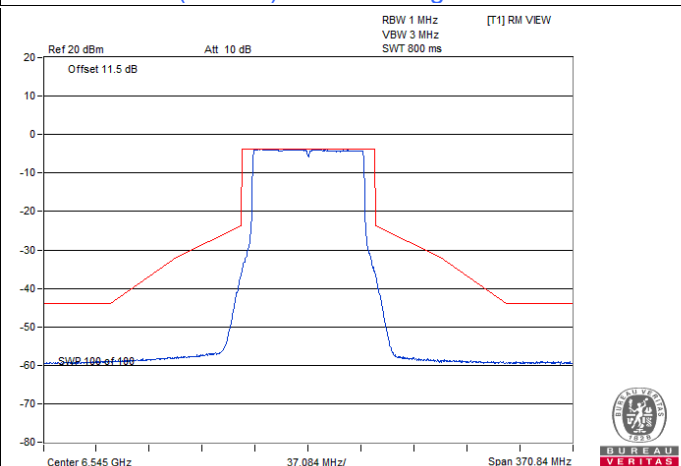
802.11be (EHT80) Beamforming / Chain 1 : CH 55



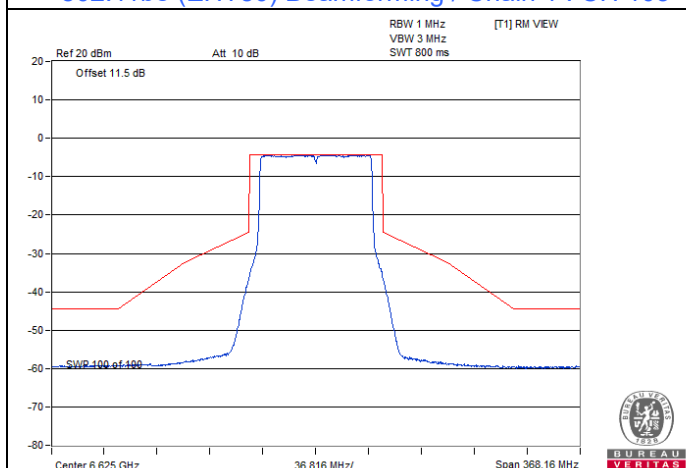
802.11be (EHT80) Beamforming / Chain 1 : CH 87



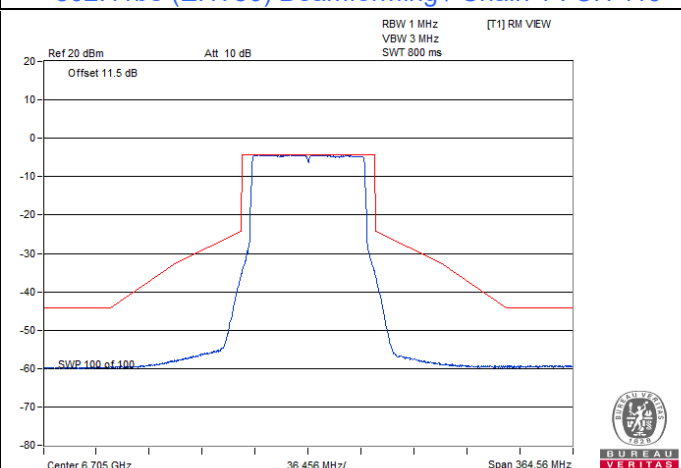
802.11be (EHT80) Beamforming / Chain 1 : CH 103



802.11be (EHT80) Beamforming / Chain 1 : CH 119

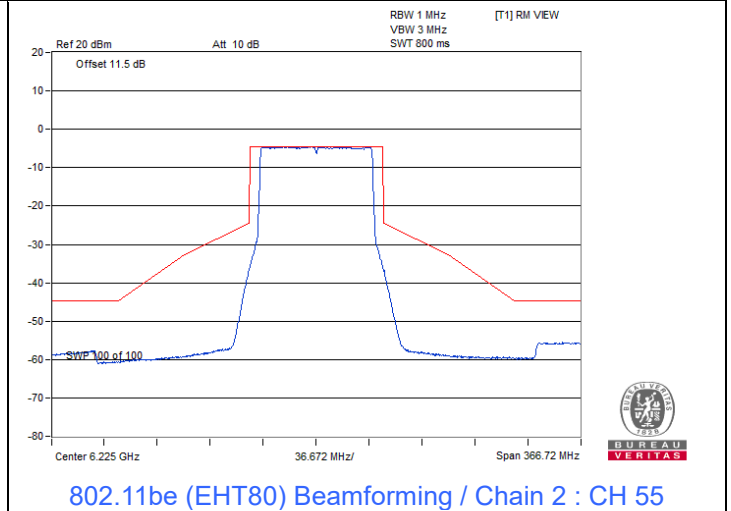
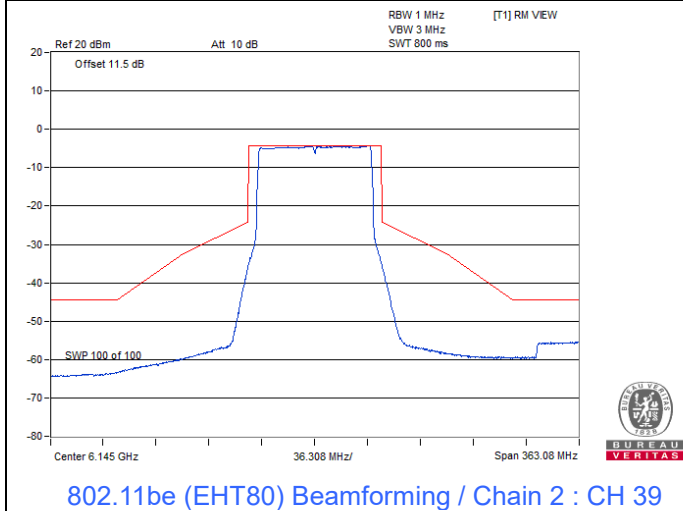
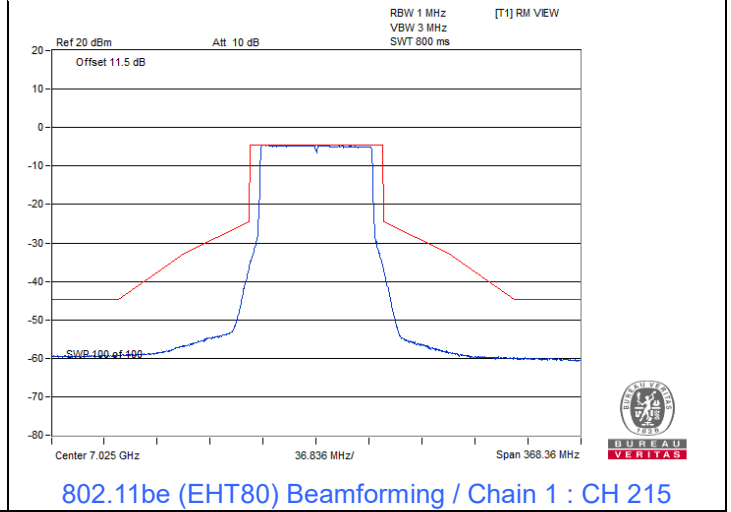
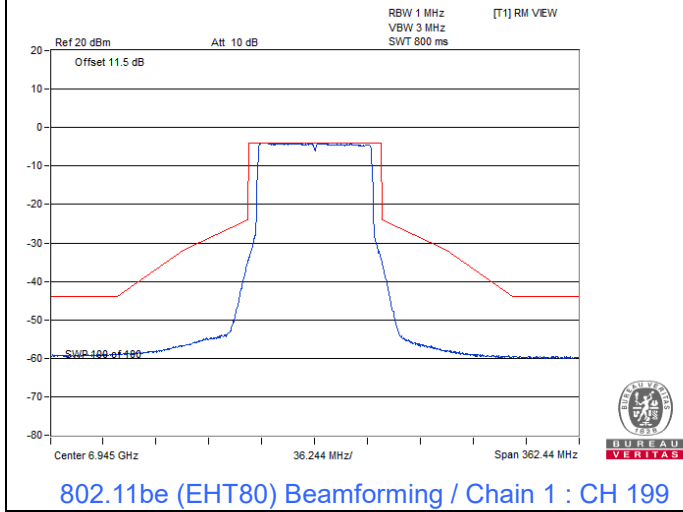
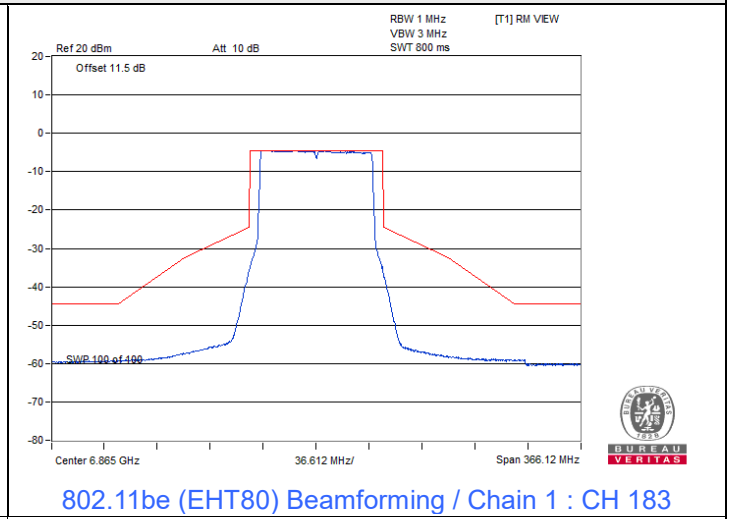
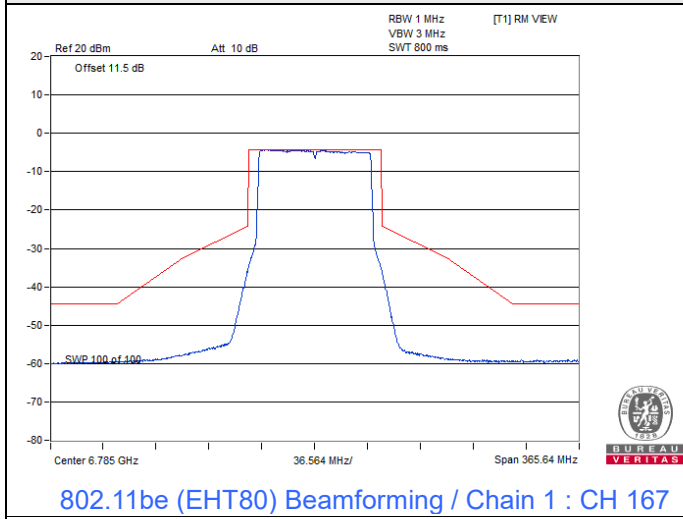


802.11be (EHT80) Beamforming / Chain 1 : CH 135

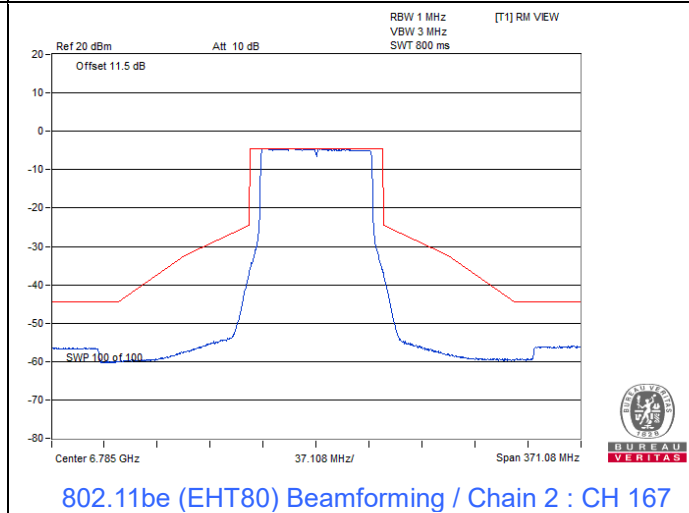
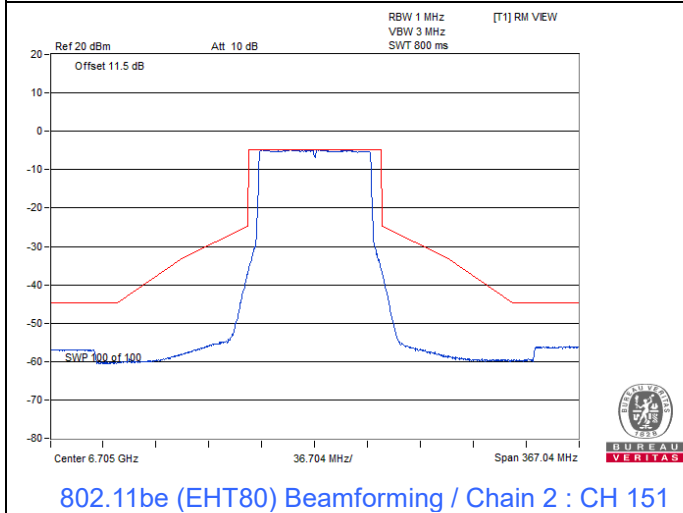
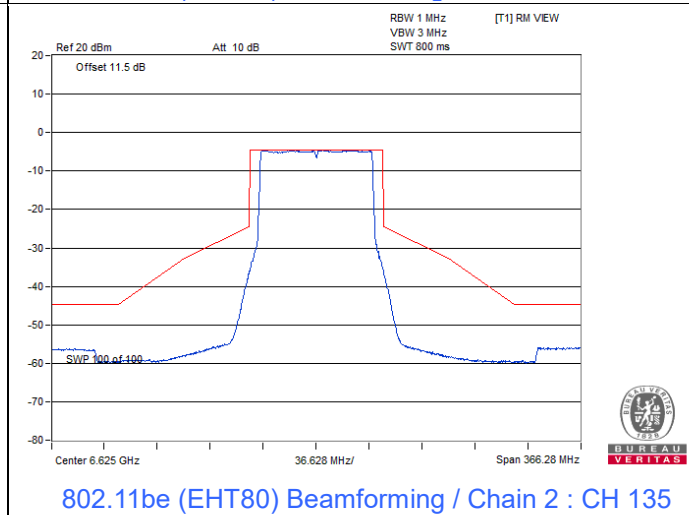
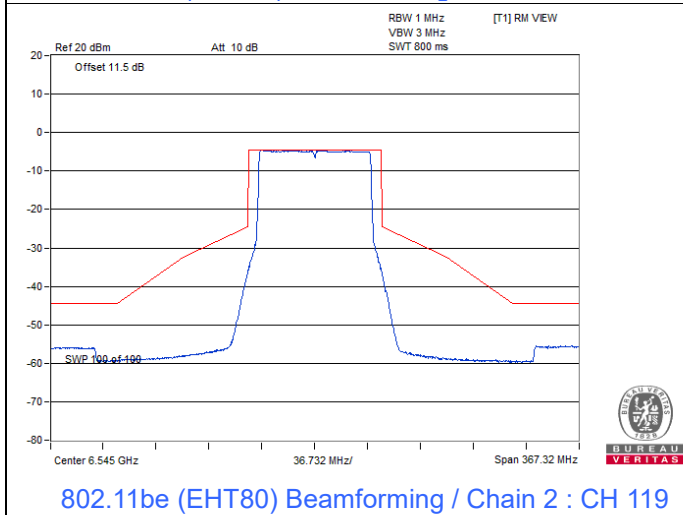
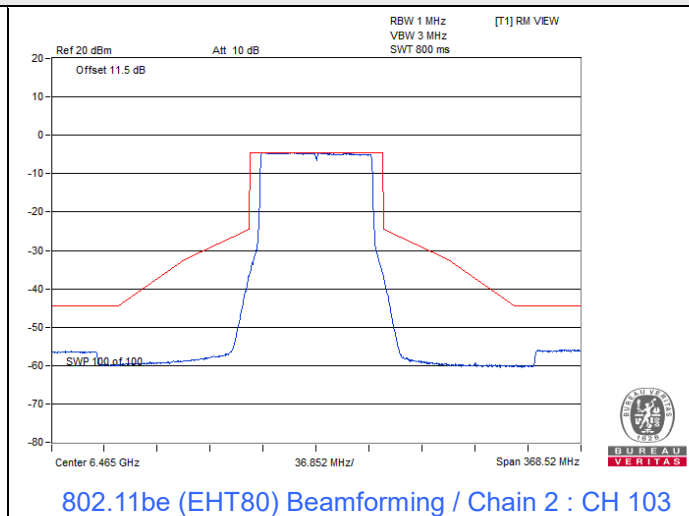
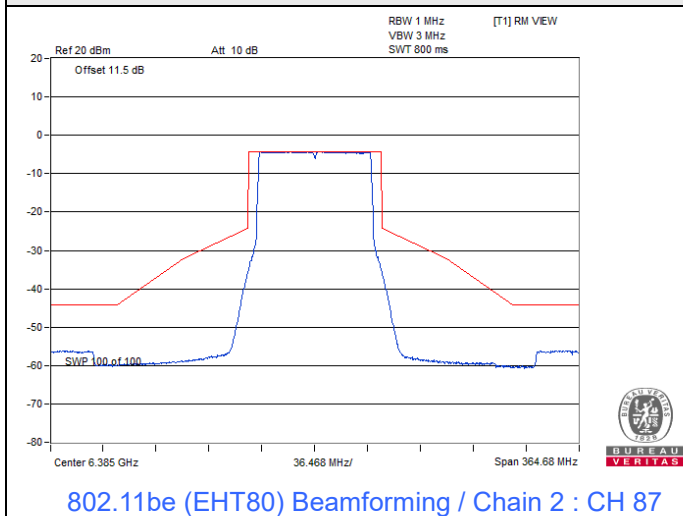


802.11be (EHT80) Beamforming / Chain 1 : CH 151

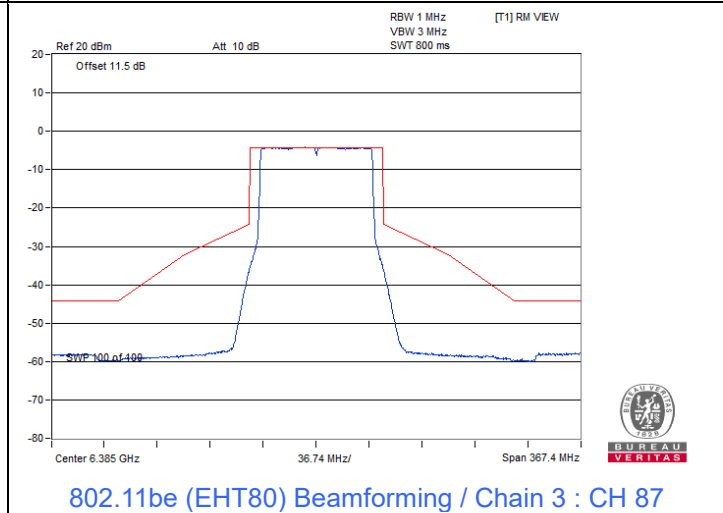
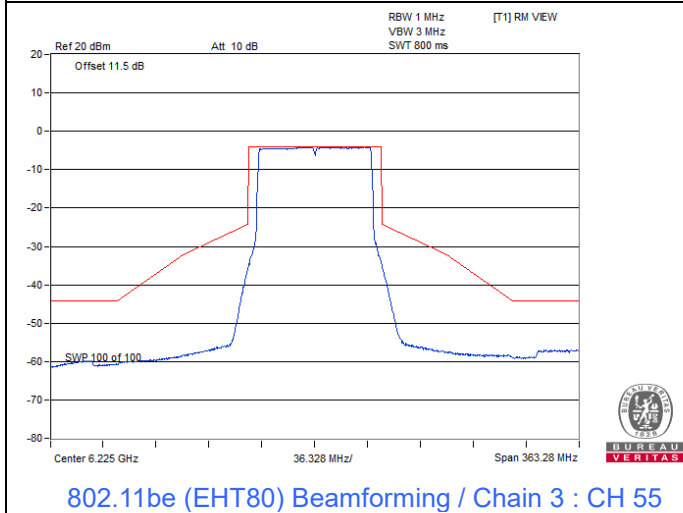
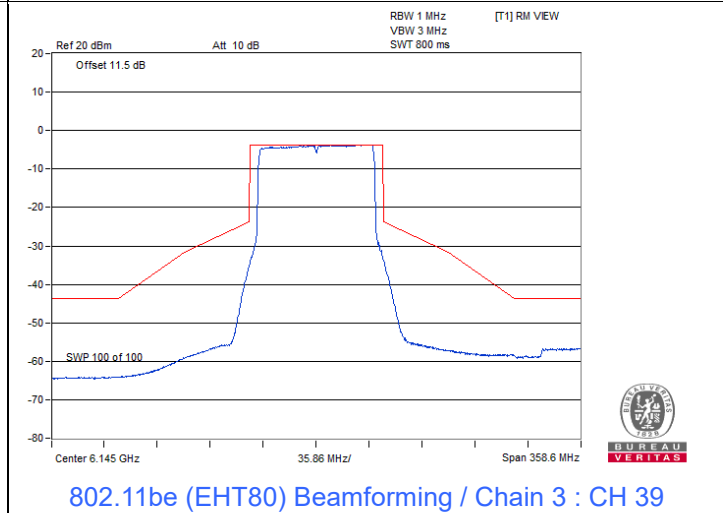
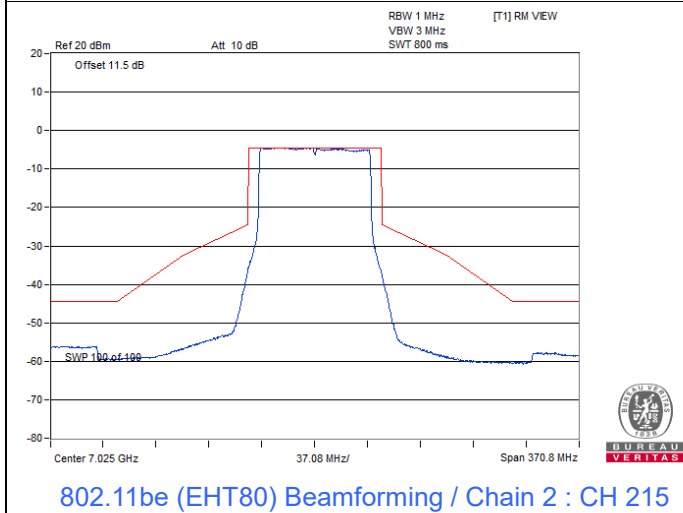
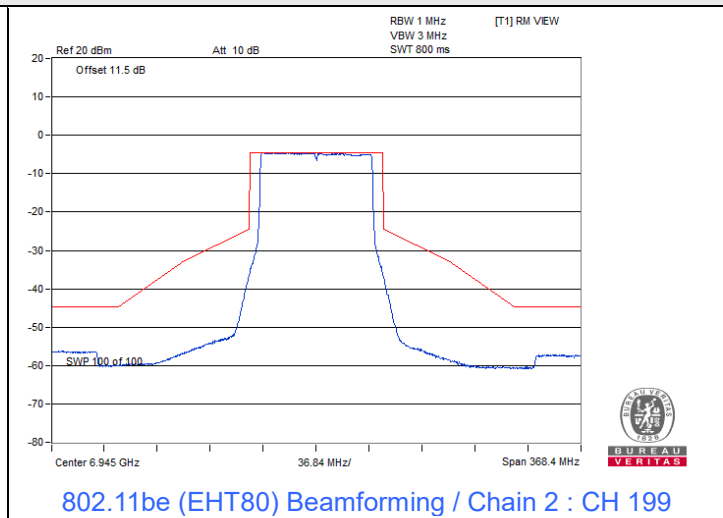
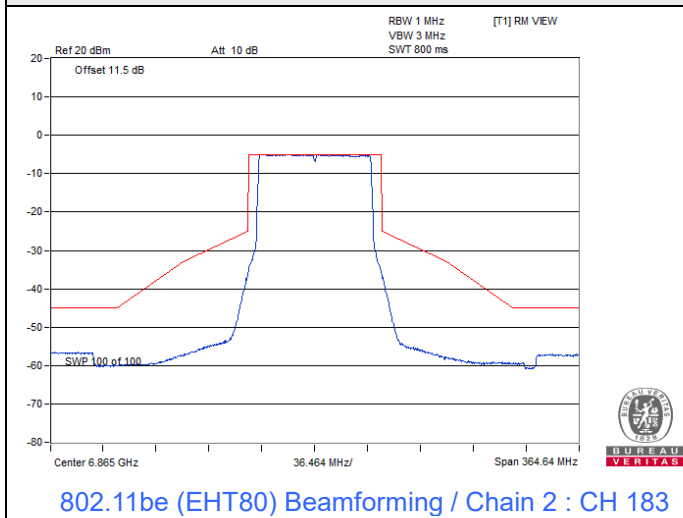
Spectrum Plot



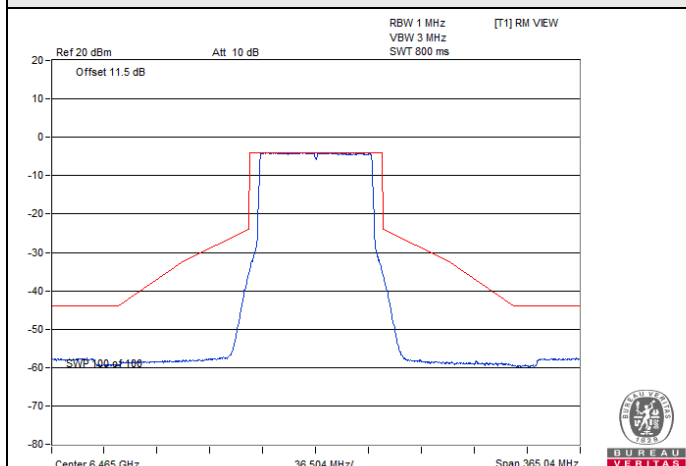
Spectrum Plot



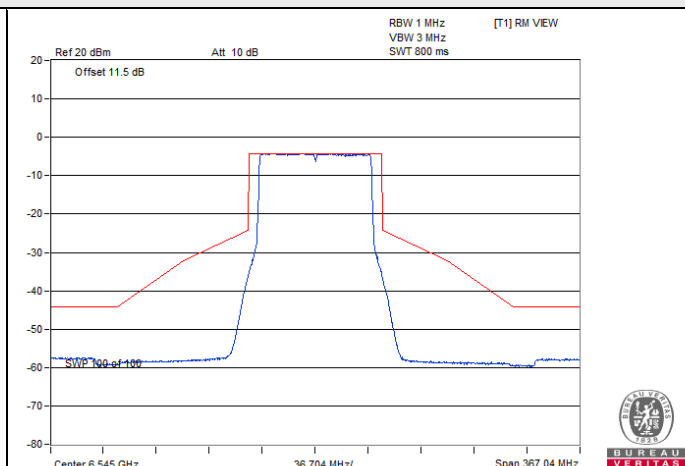
Spectrum Plot



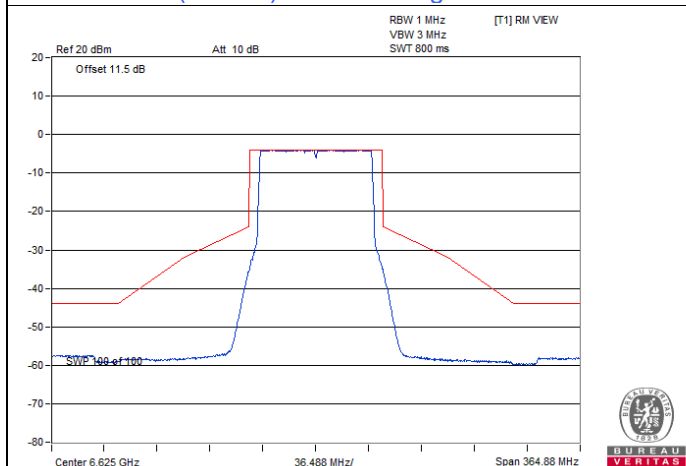
Spectrum Plot



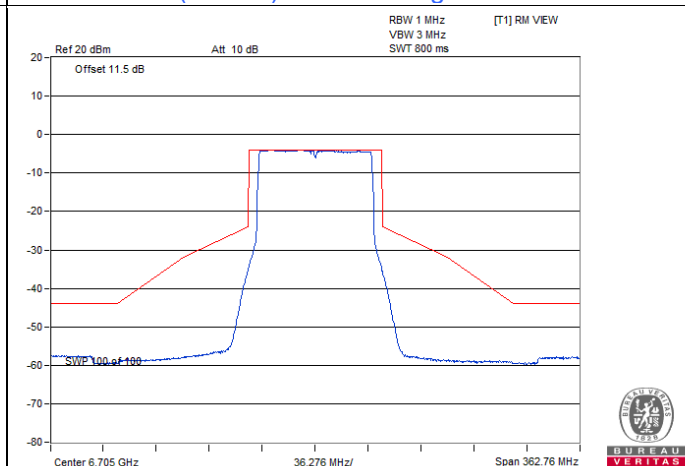
802.11be (EHT80) Beamforming / Chain 3 : CH 103



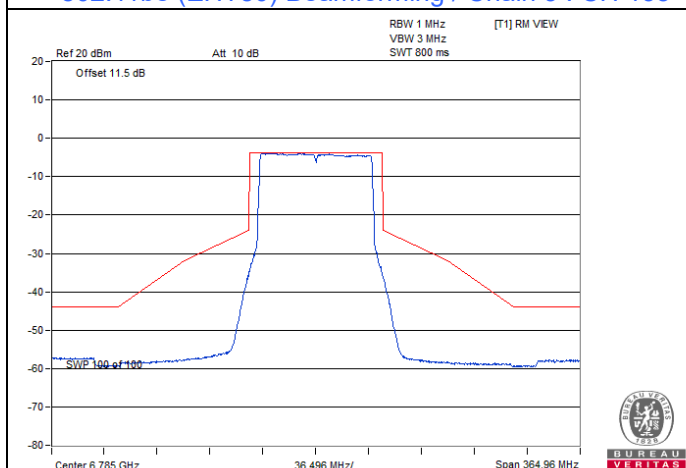
802.11be (EHT80) Beamforming / Chain 3 : CH 119



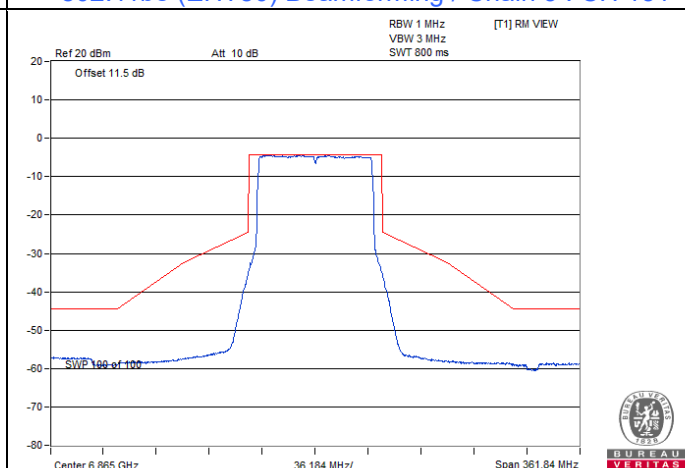
802.11be (EHT80) Beamforming / Chain 3 : CH 135



802.11be (EHT80) Beamforming / Chain 3 : CH 151

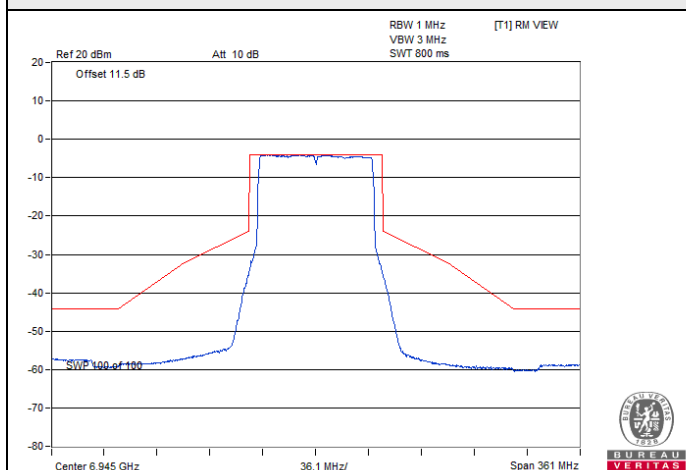


802.11be (EHT80) Beamforming / Chain 3 : CH 167

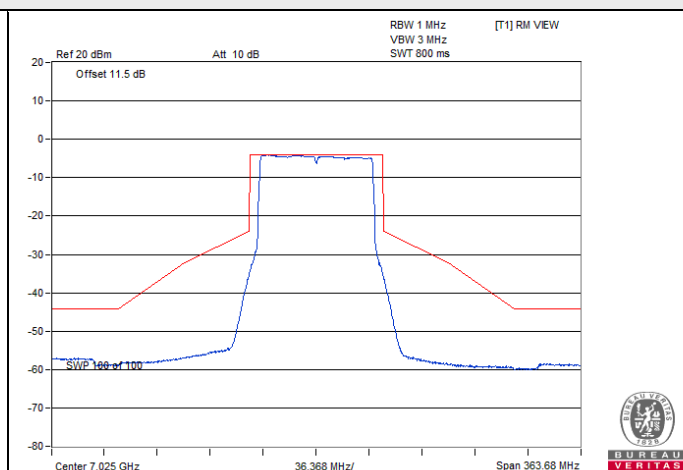


802.11be (EHT80) Beamforming / Chain 3 : CH 183

Spectrum Plot



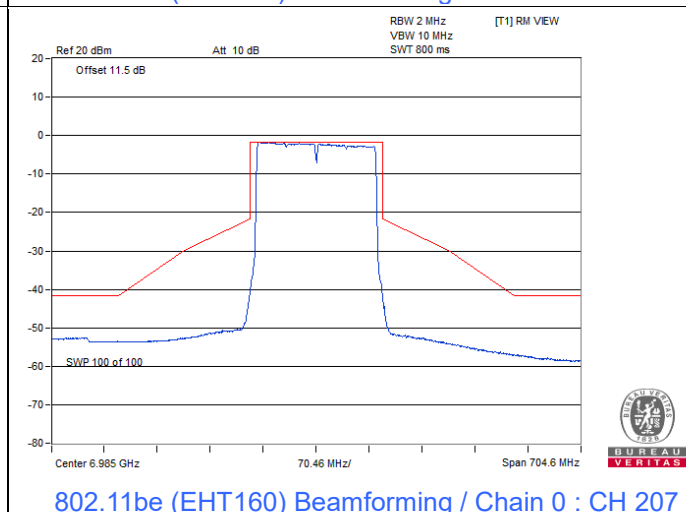
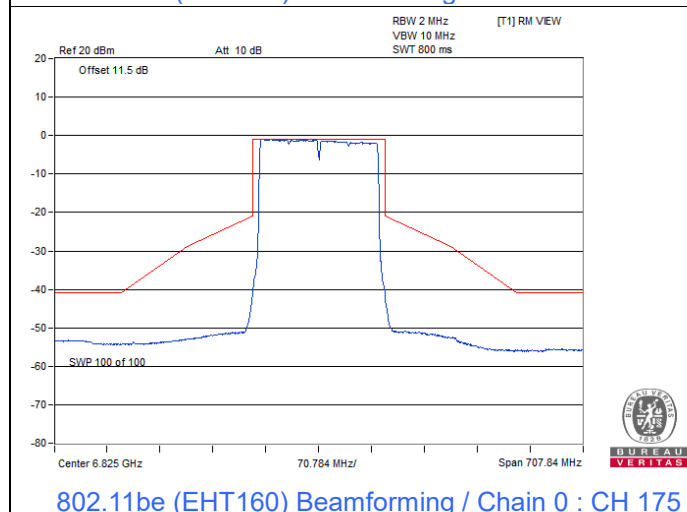
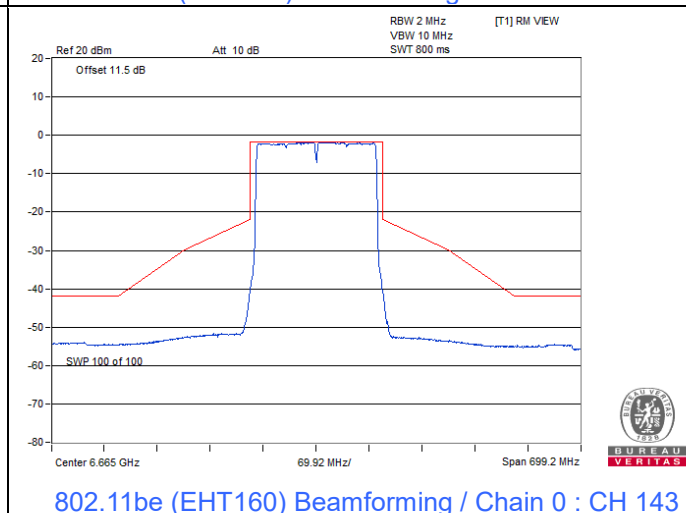
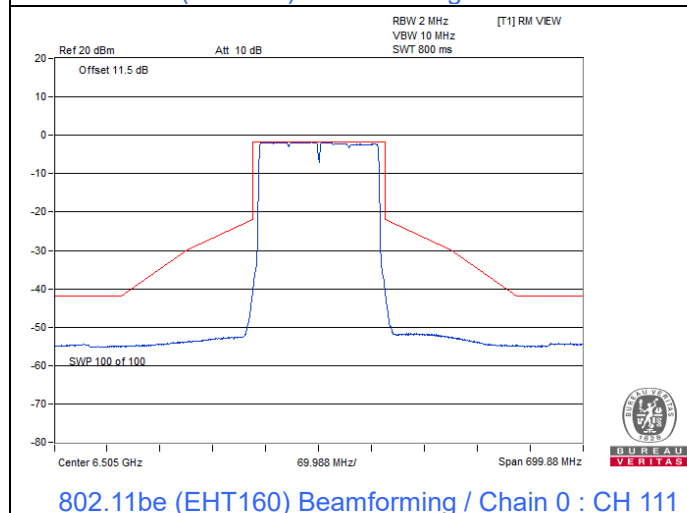
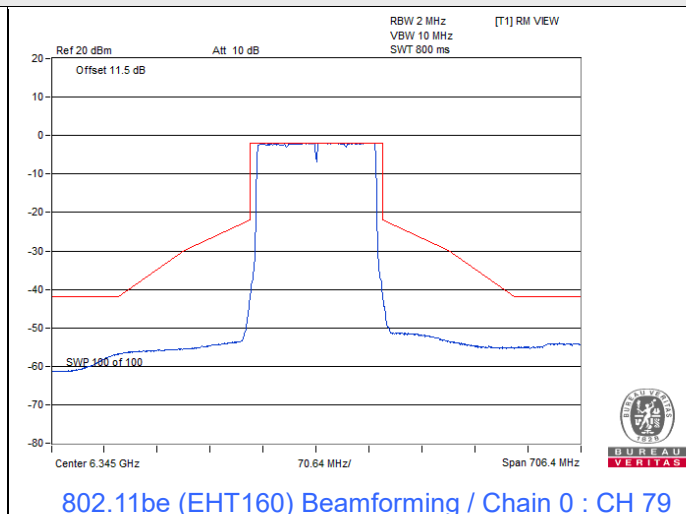
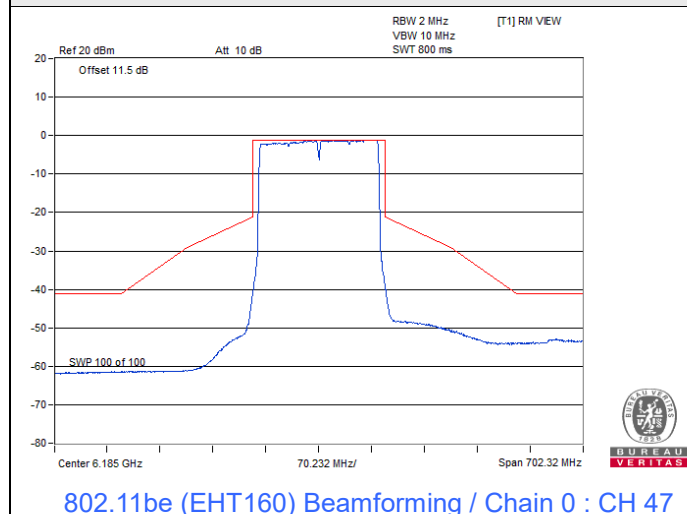
802.11be (EHT80) Beamforming / Chain 3 : CH 199



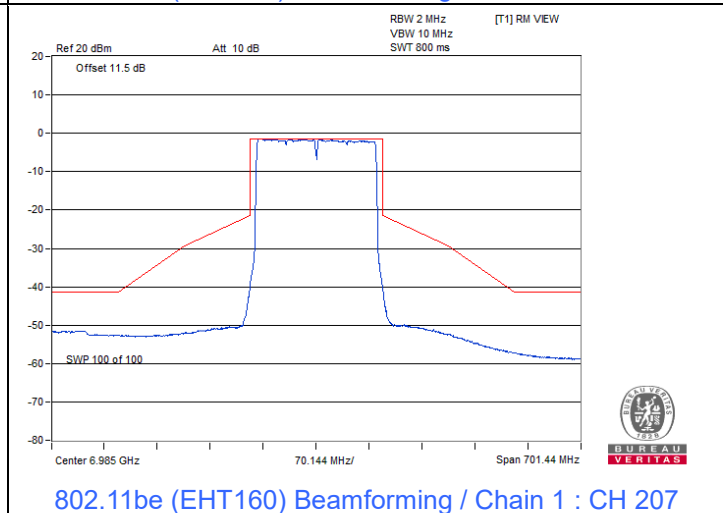
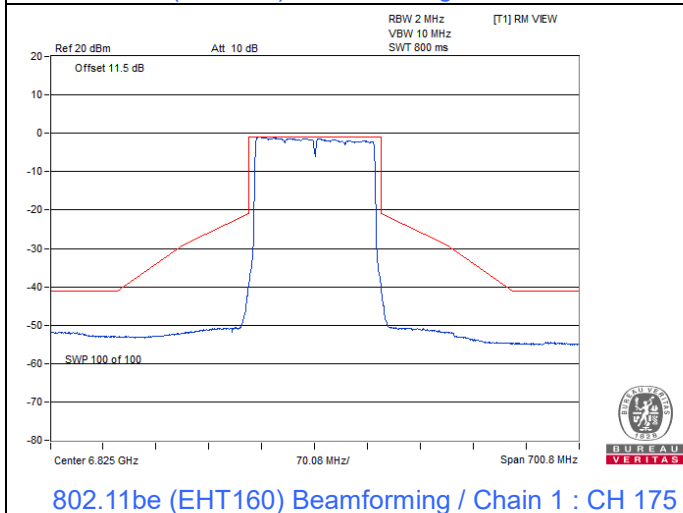
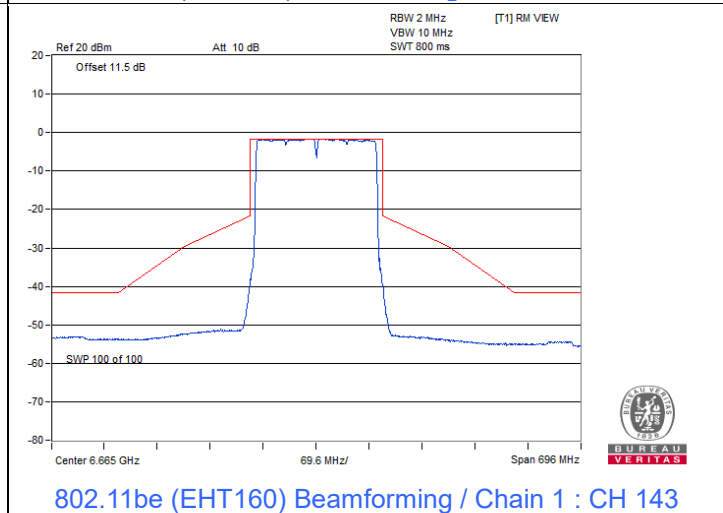
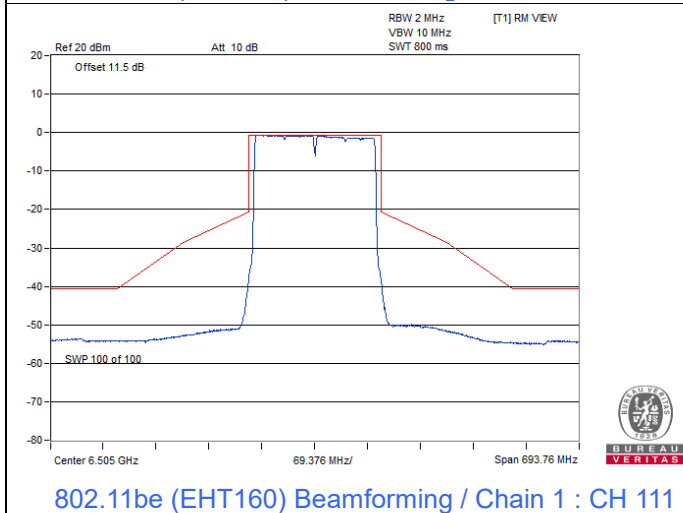
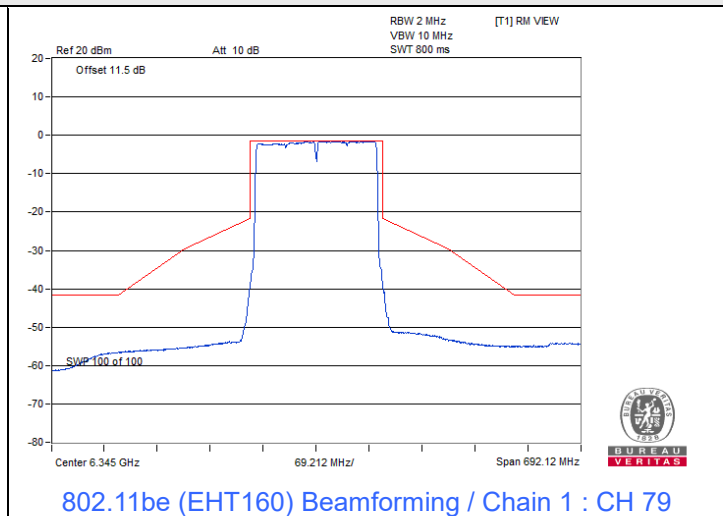
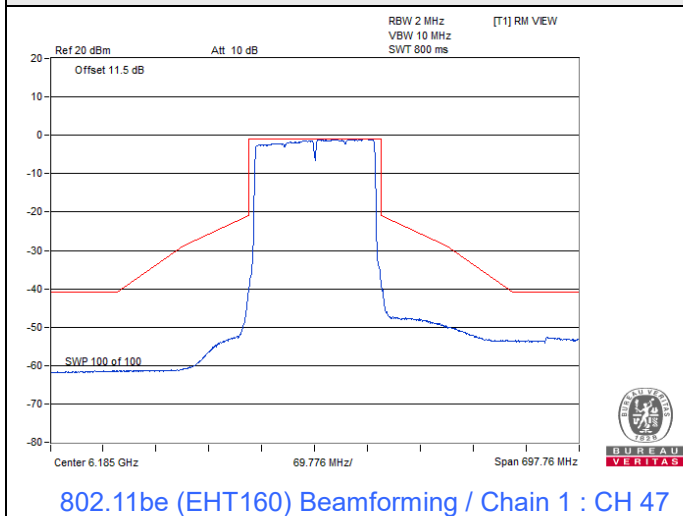
802.11be (EHT80) Beamforming / Chain 3 : CH 215

802.11be (EHT160) Beamforming

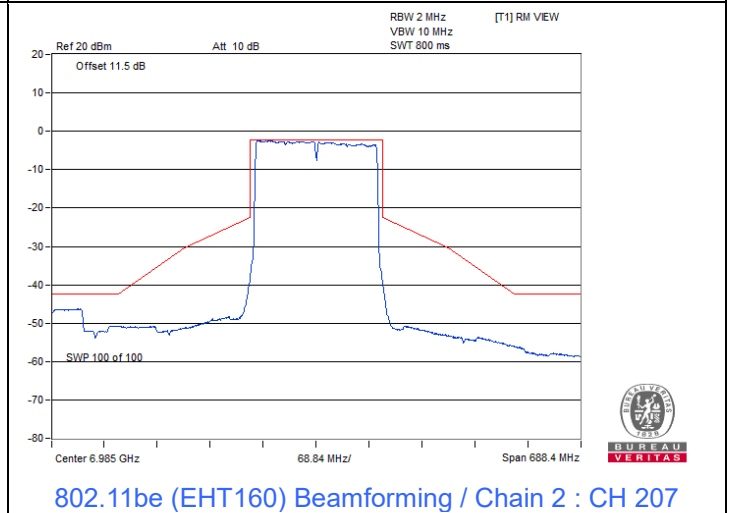
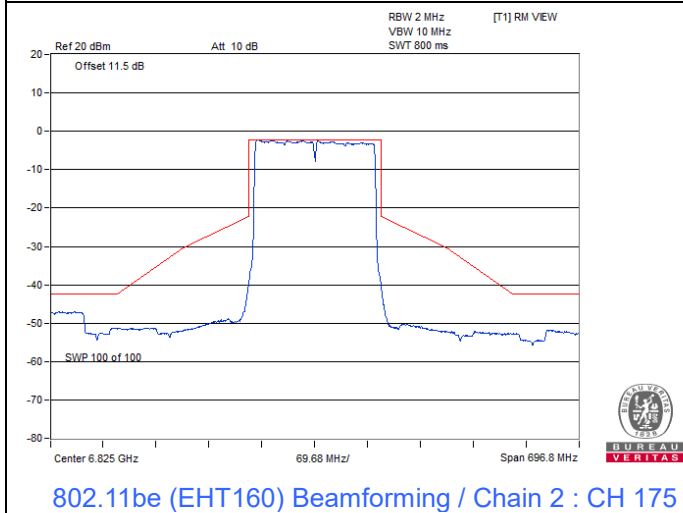
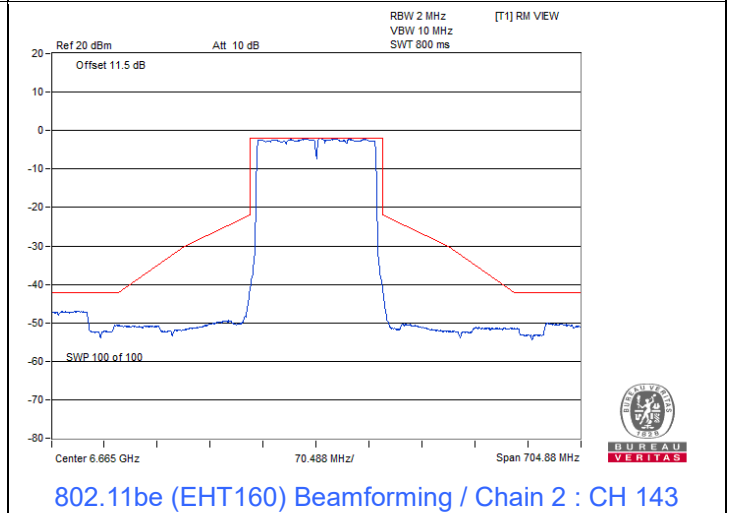
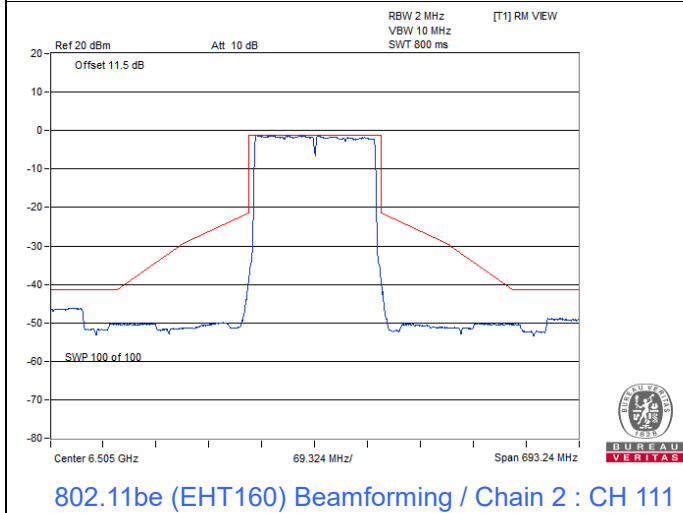
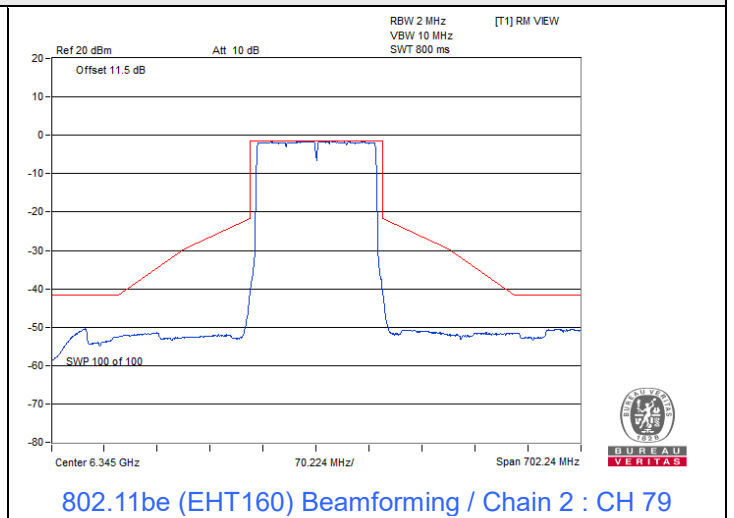
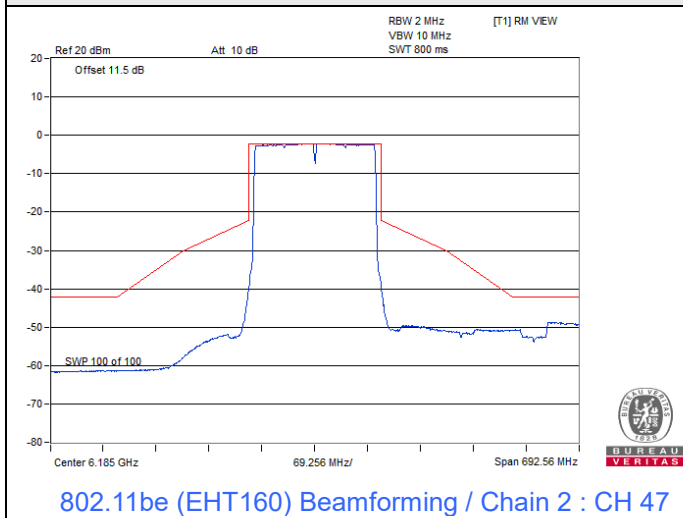
Spectrum Plot



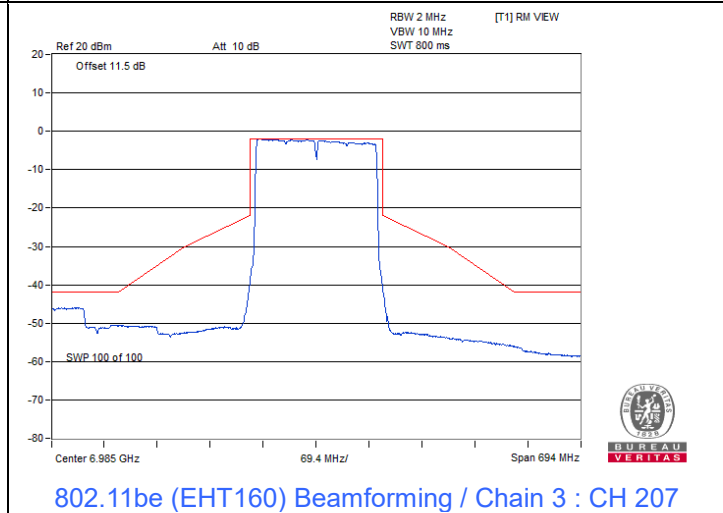
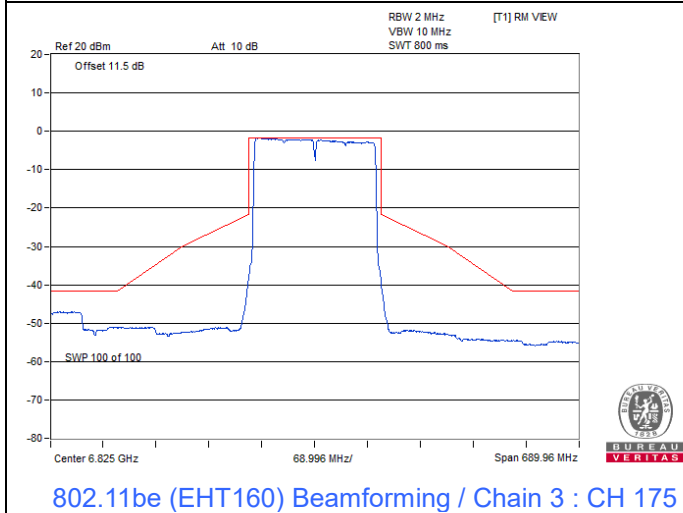
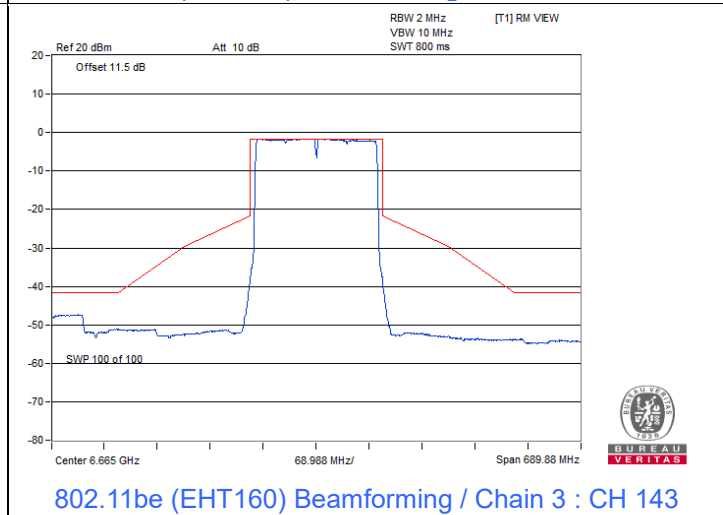
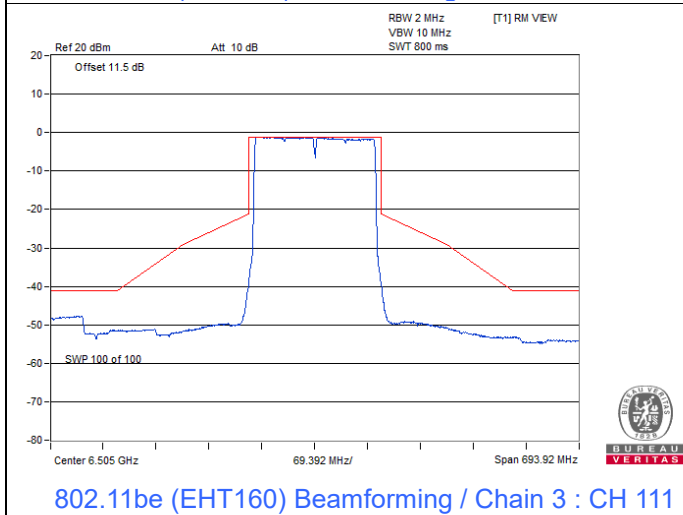
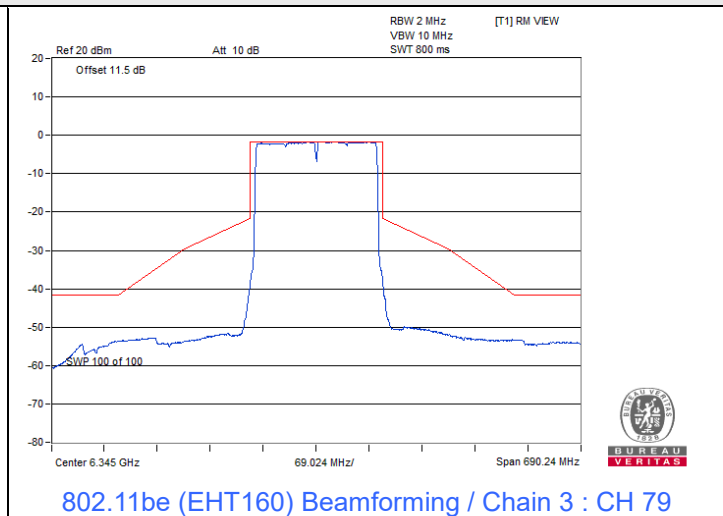
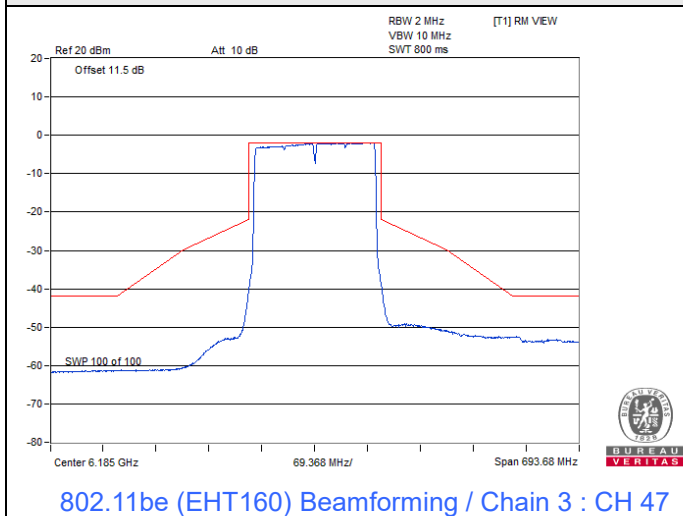
Spectrum Plot



Spectrum Plot

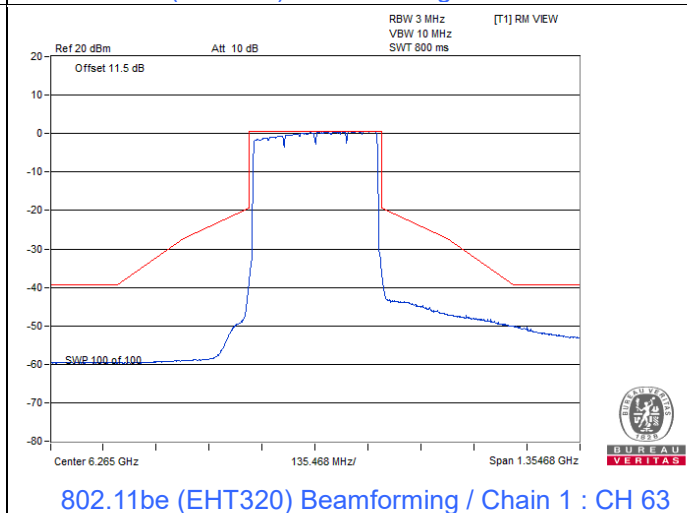
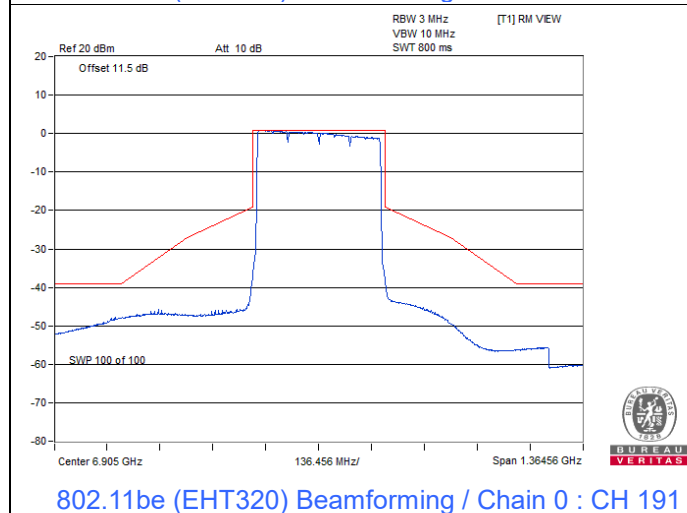
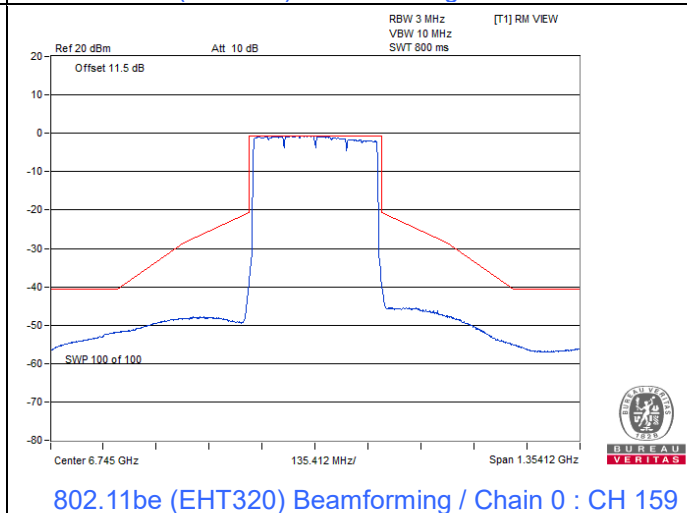
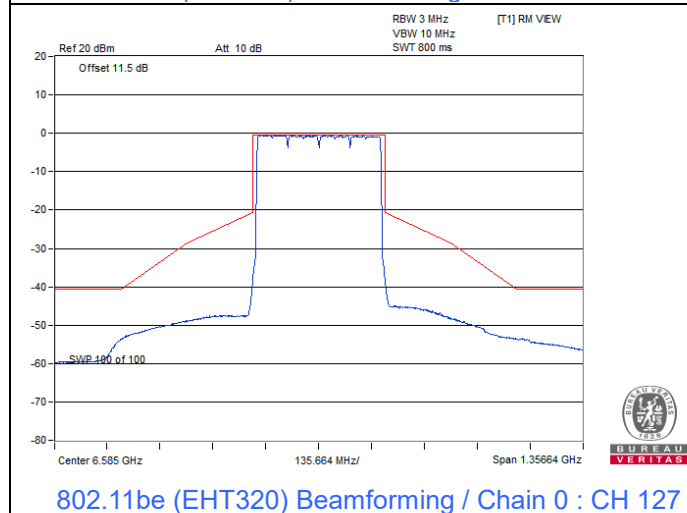
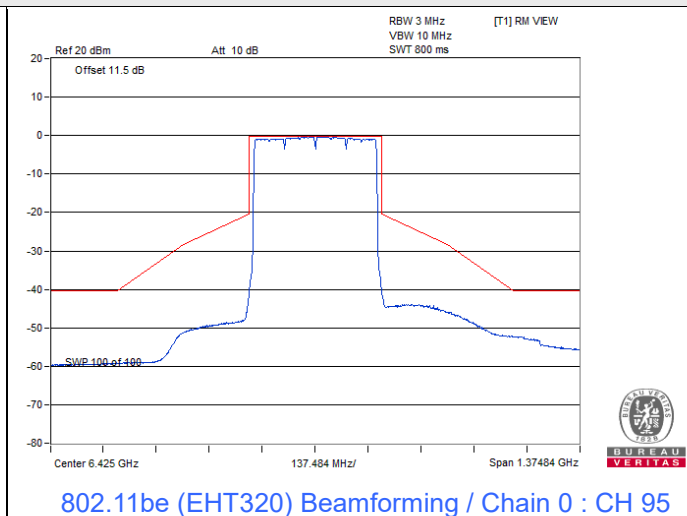
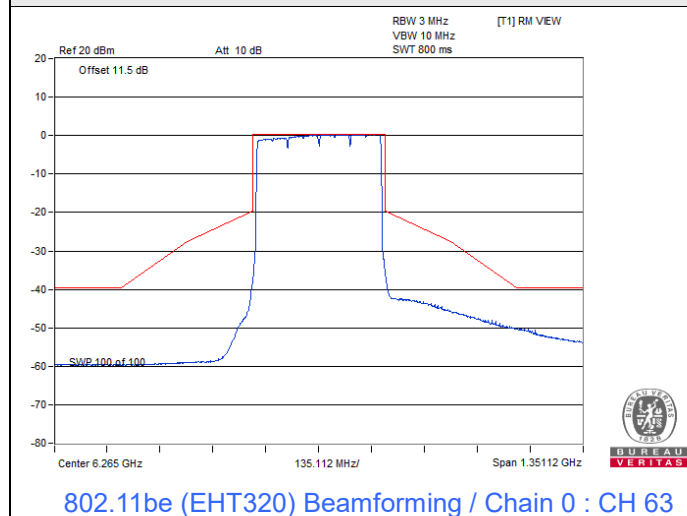


Spectrum Plot

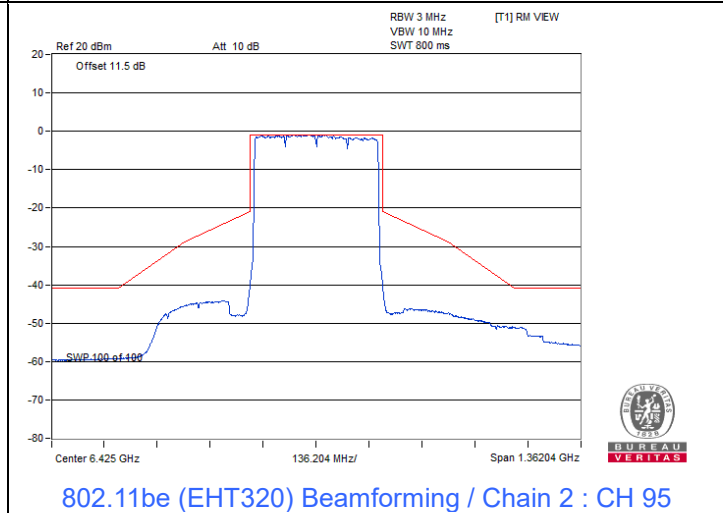
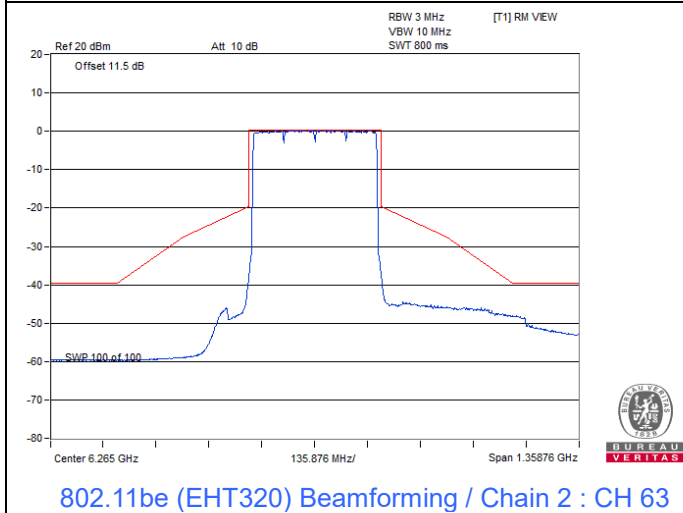
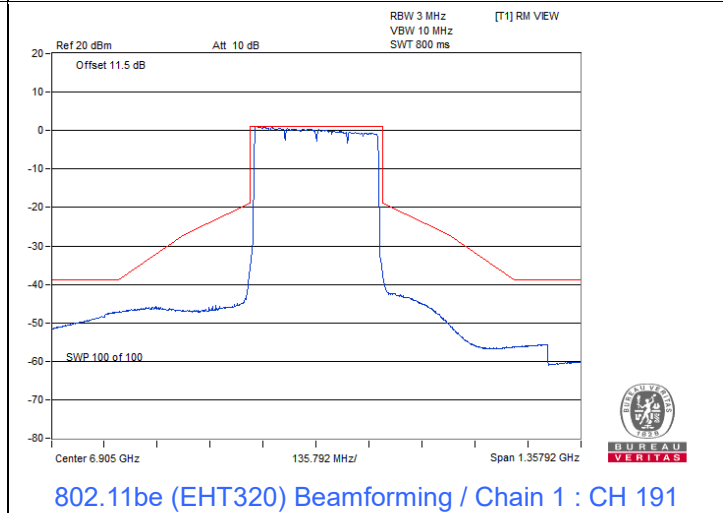
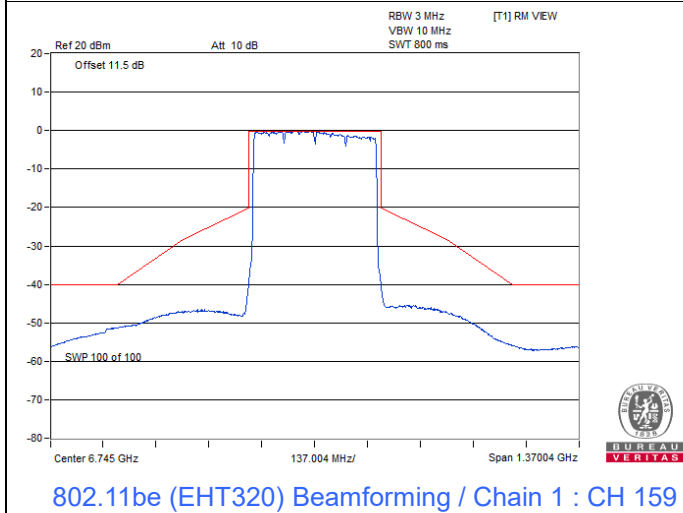
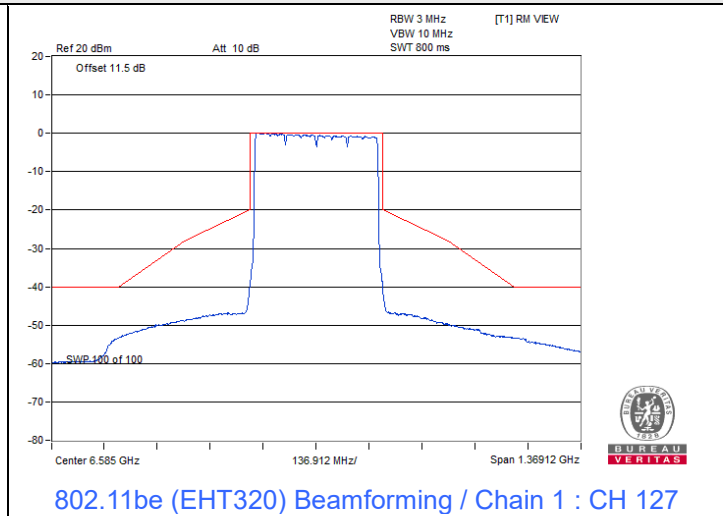
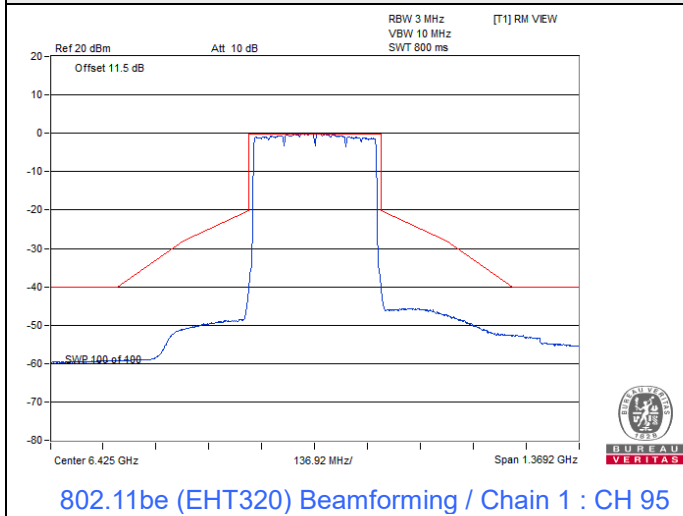


802.11be (EHT320) Beamforming

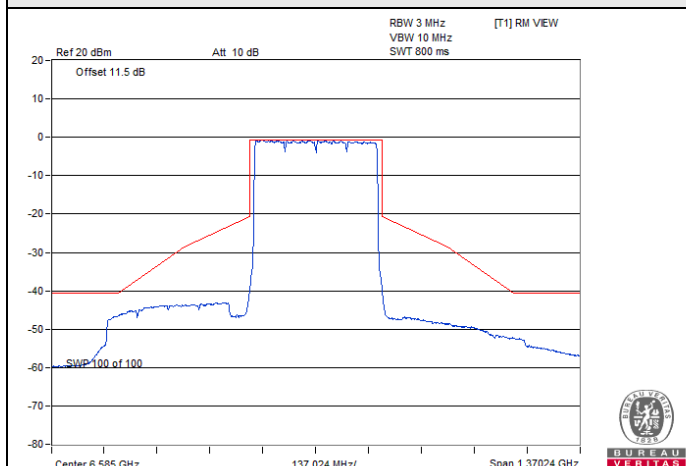
Spectrum Plot



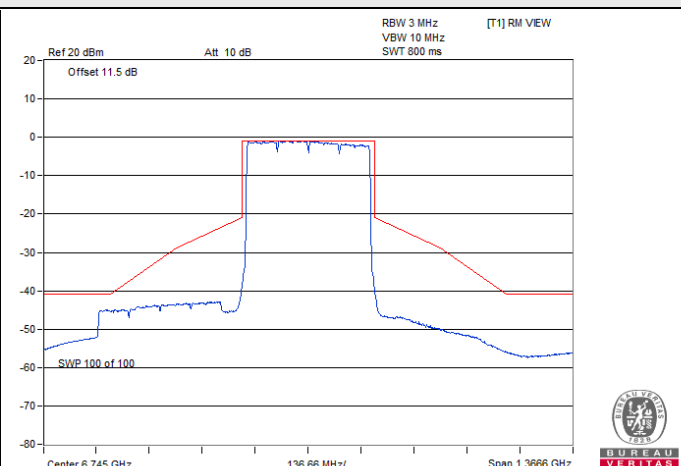
Spectrum Plot



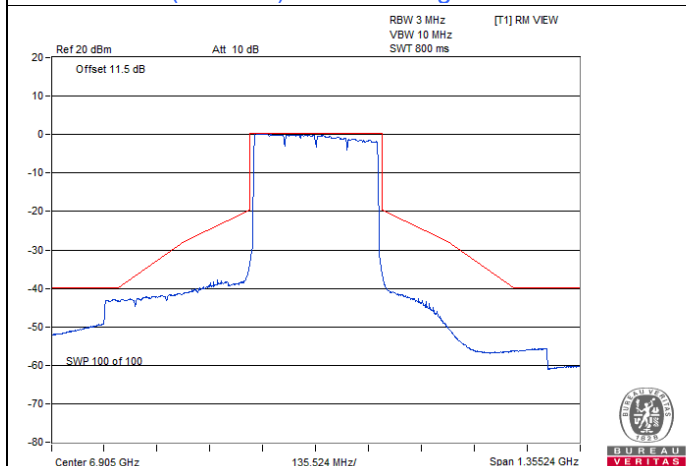
Spectrum Plot



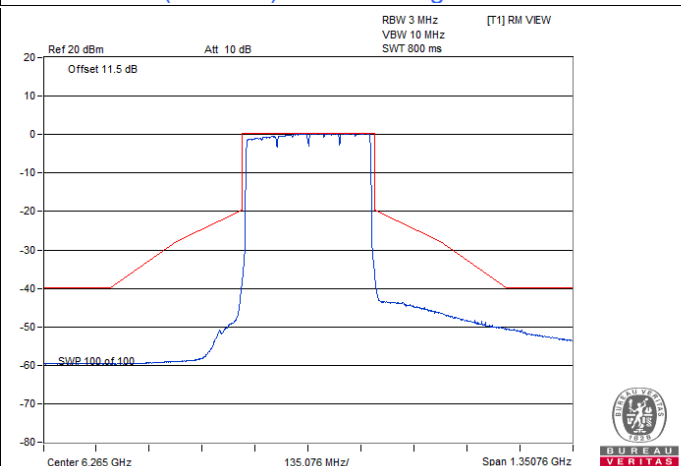
802.11be (EHT320) Beamforming / Chain 2 : CH 127



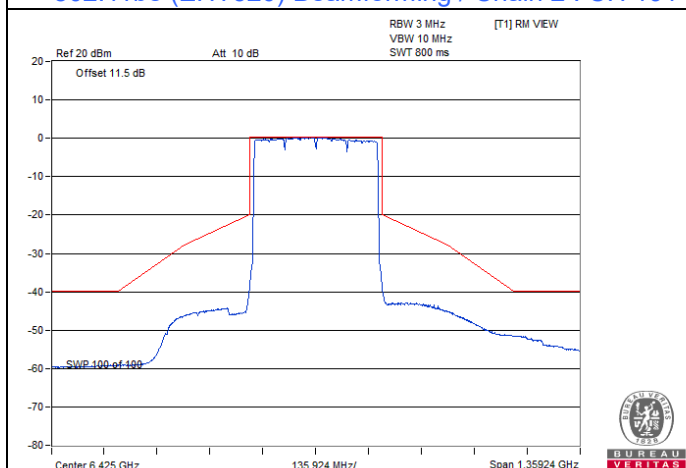
802.11be (EHT320) Beamforming / Chain 2 : CH 159



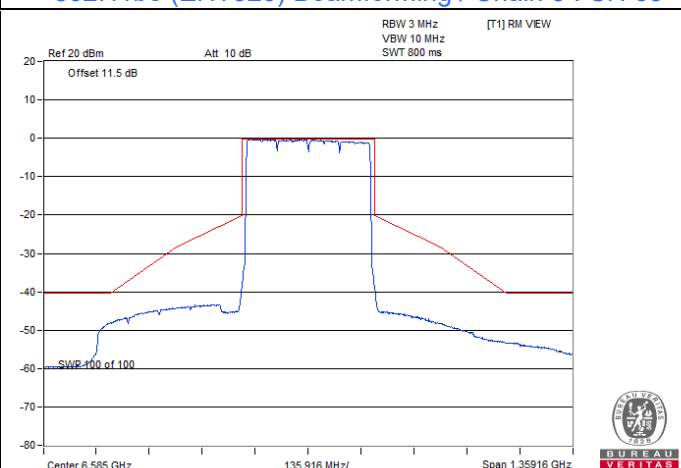
802.11be (EHT320) Beamforming / Chain 2 : CH 191



802.11be (EHT320) Beamforming / Chain 3 : CH 63

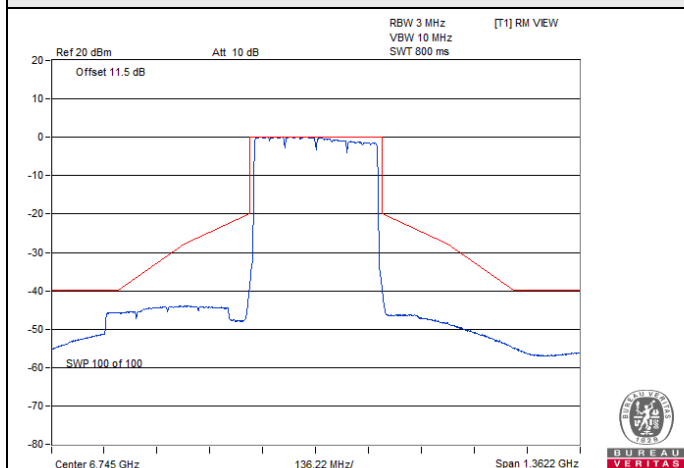


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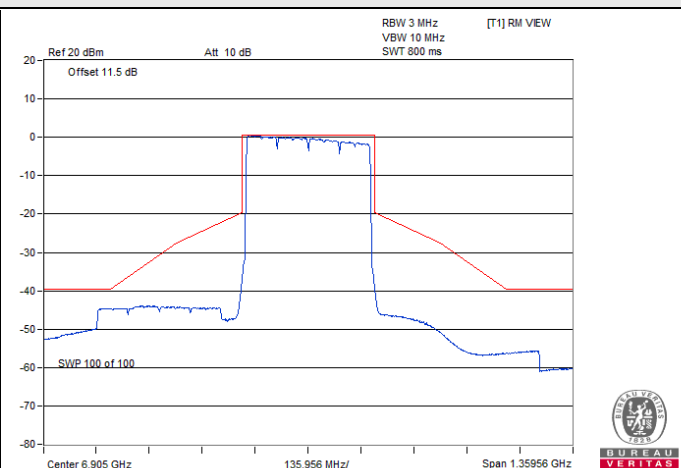


802.11be (EHT320) Beamforming / Chain 3 : CH 127

Spectrum Plot



802.11be (EHT320) Beamforming / Chain 3 : CH 159

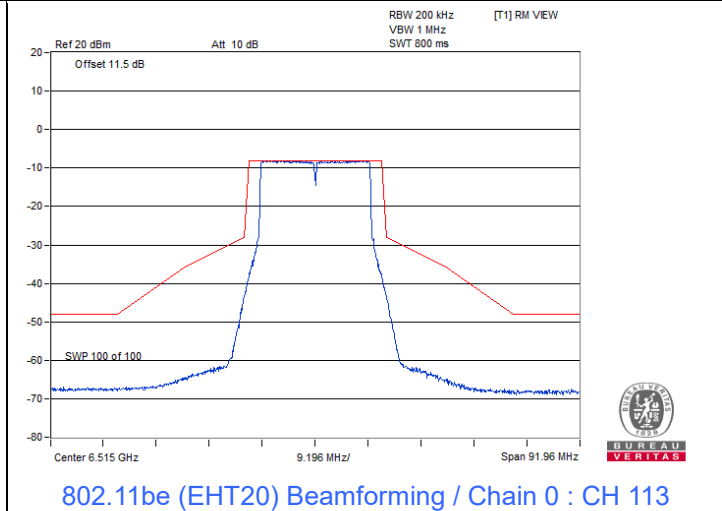
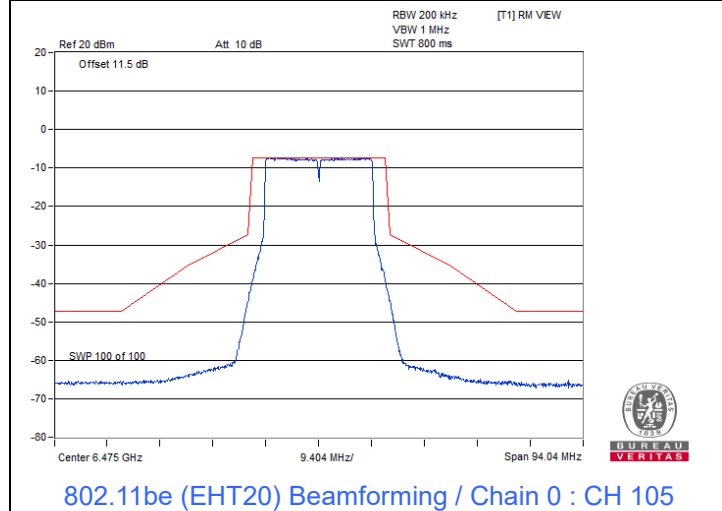
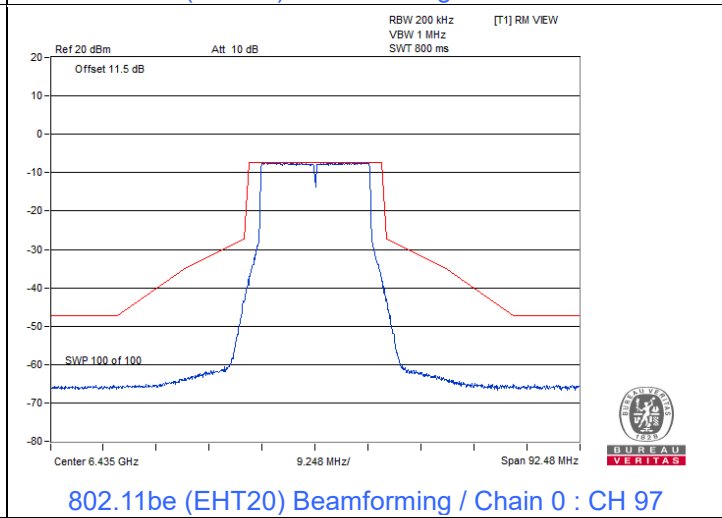
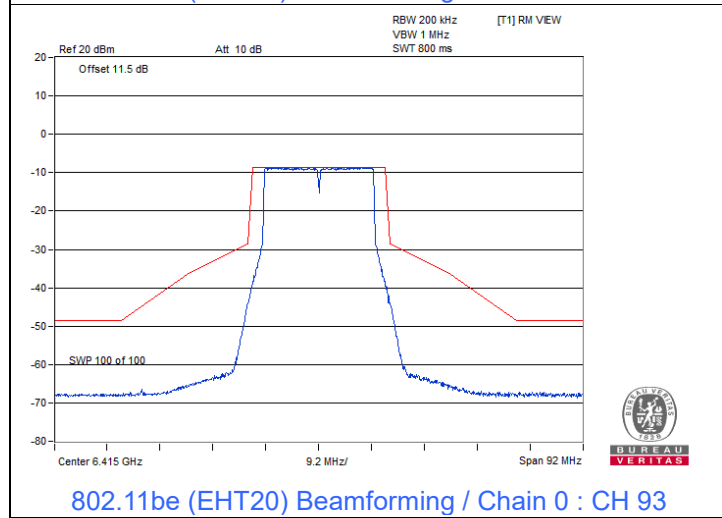
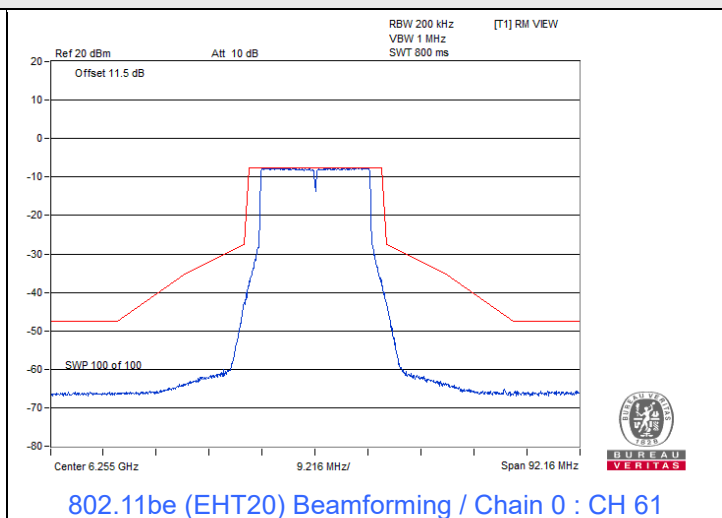
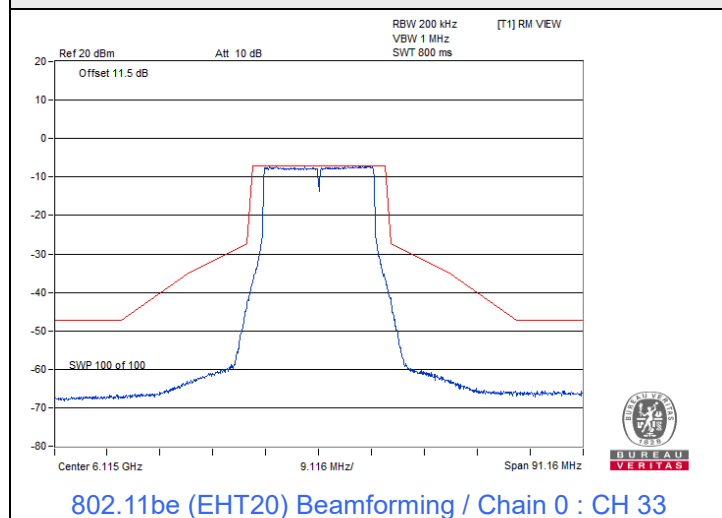


802.11be (EHT320) Beamforming / Chain 3 : CH 191

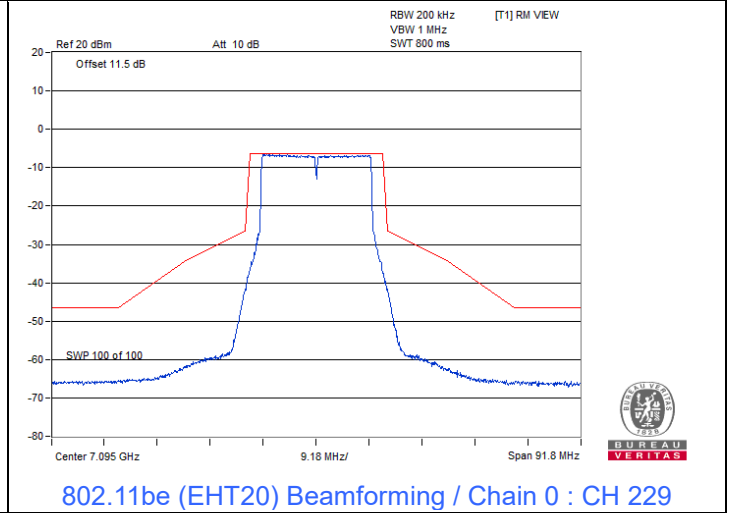
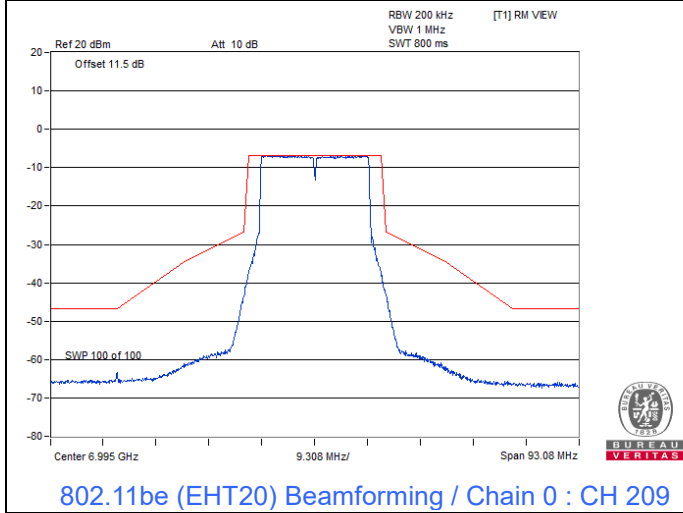
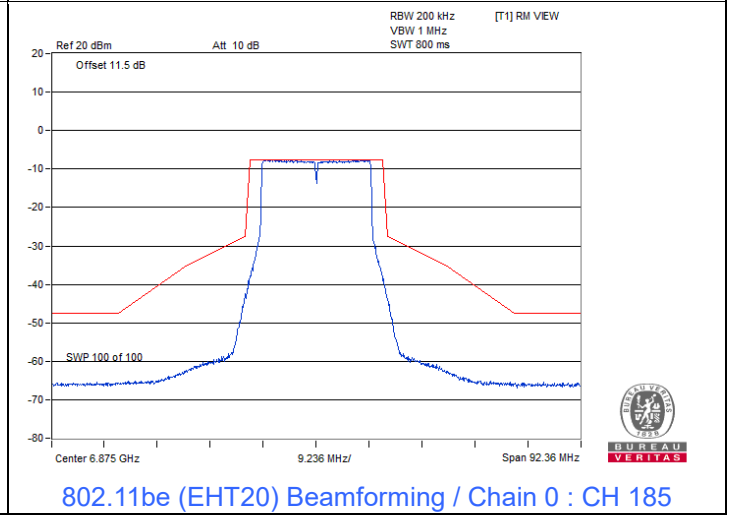
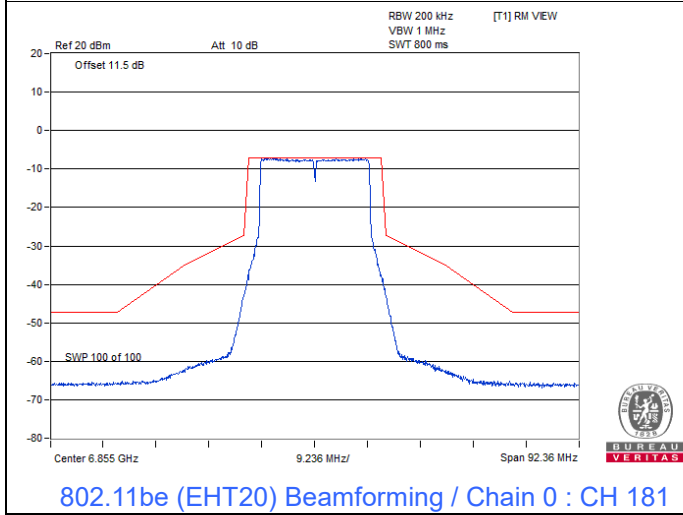
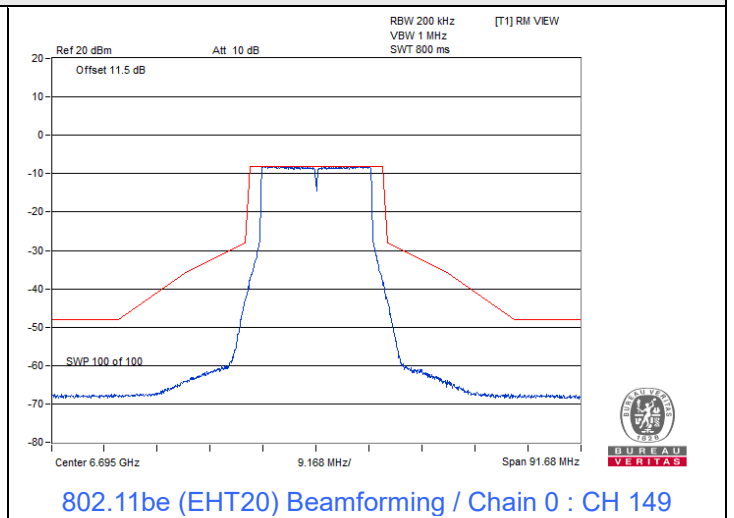
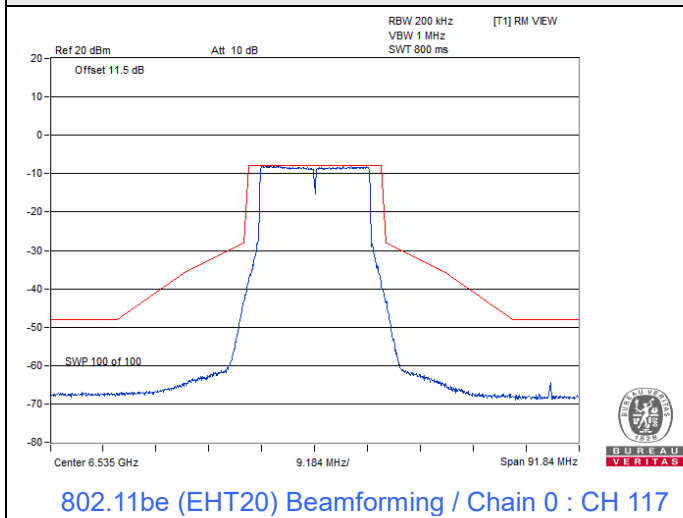
NSS4

802.11be (EHT20) Beamforming

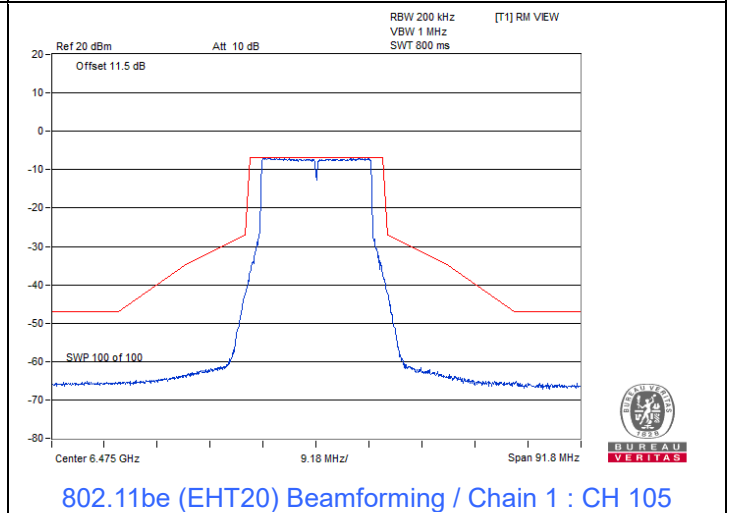
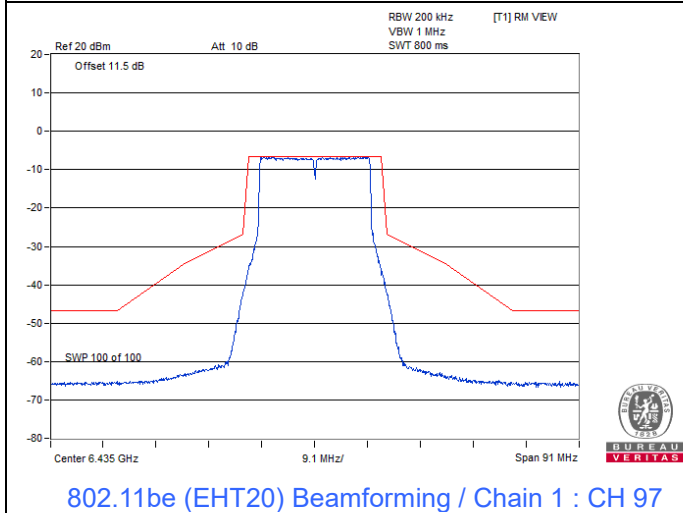
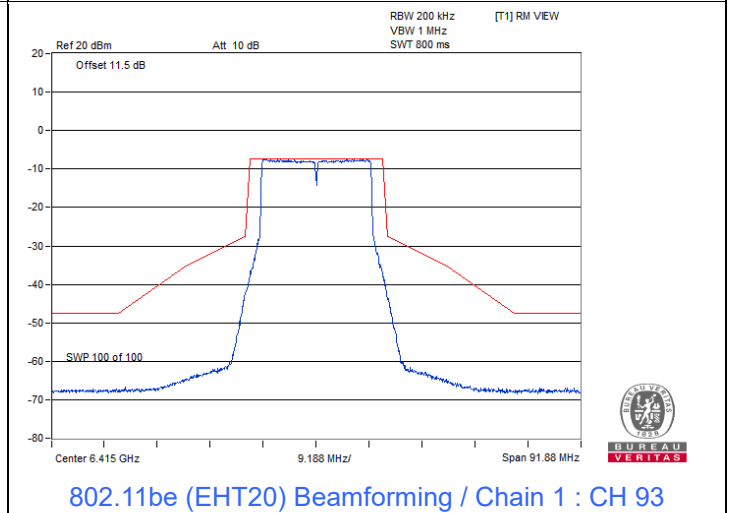
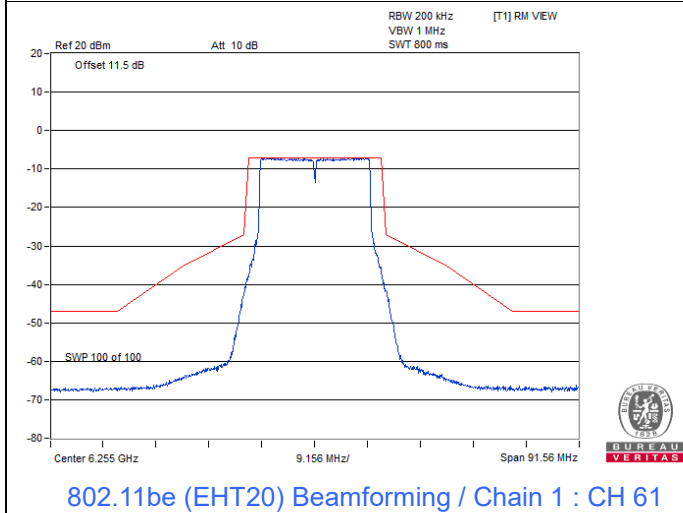
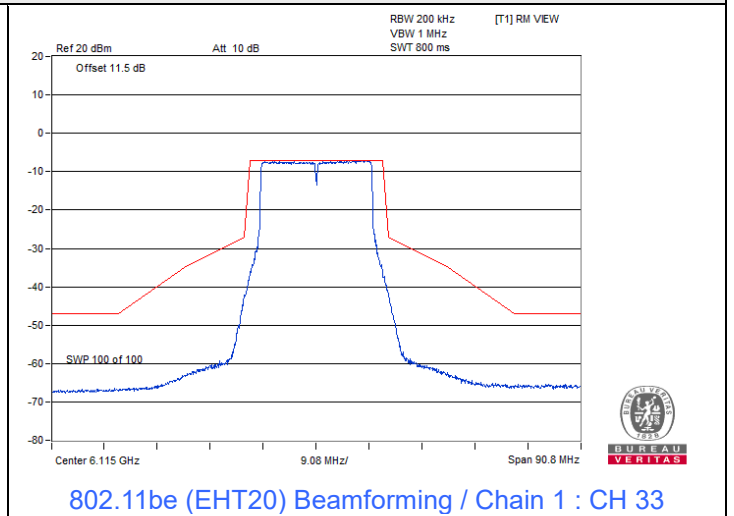
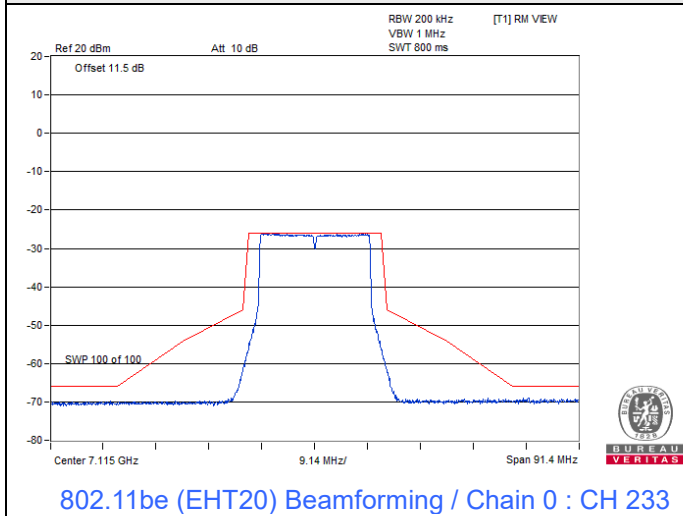
Spectrum Plot



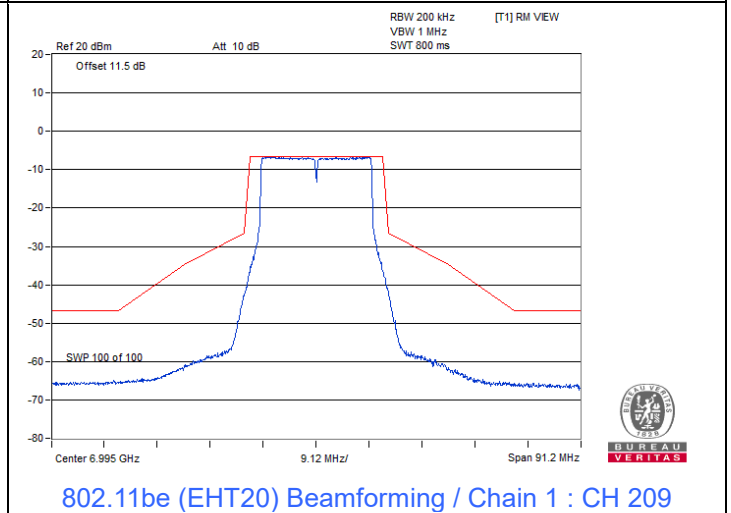
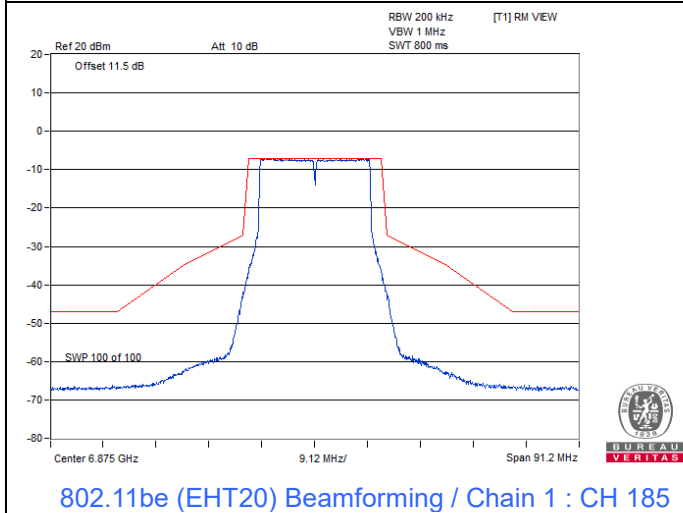
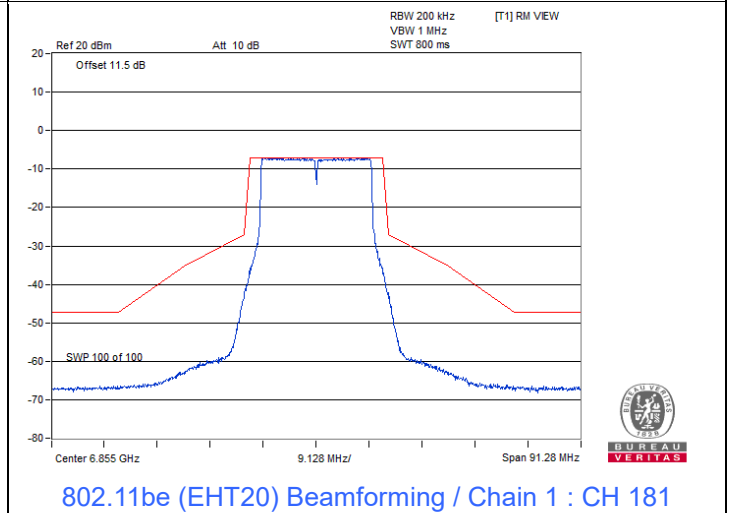
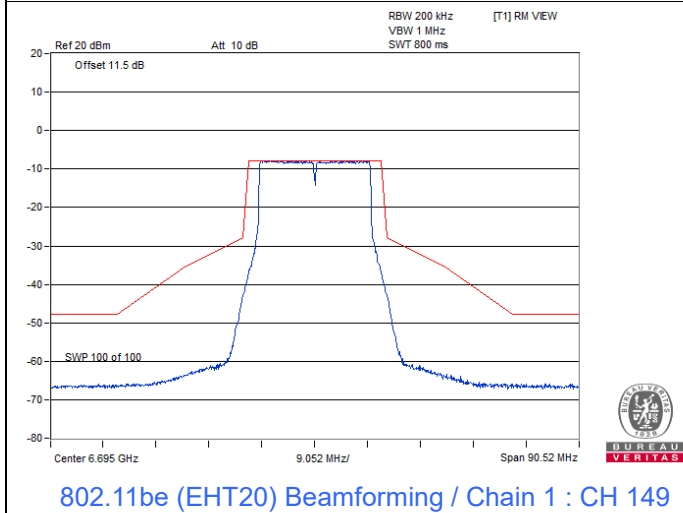
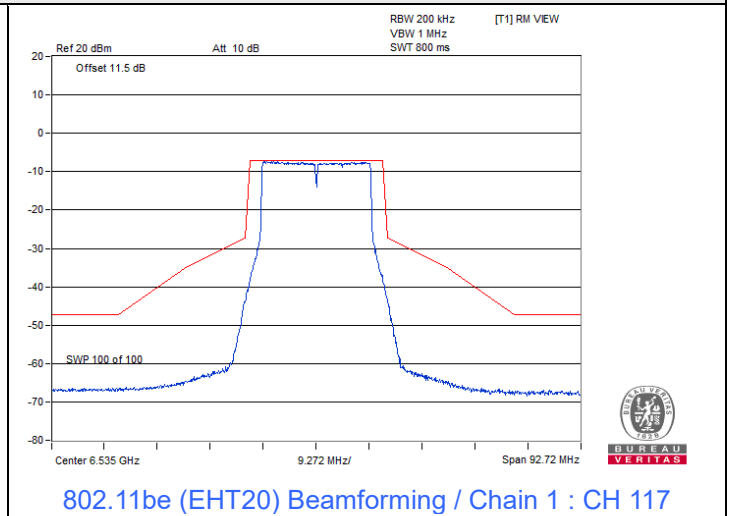
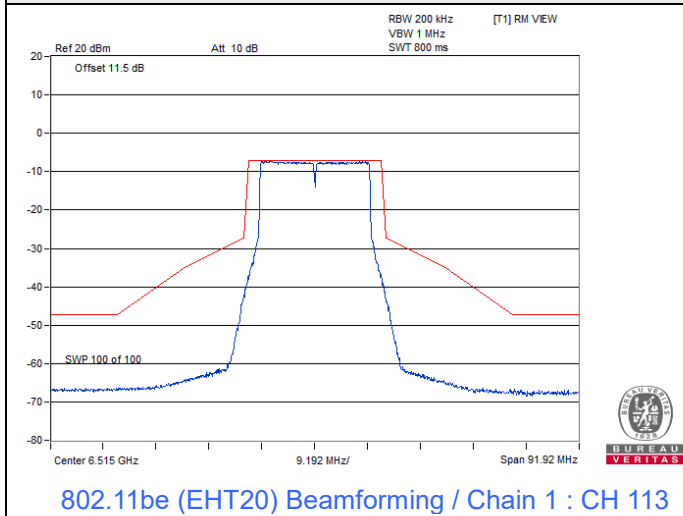
Spectrum Plot



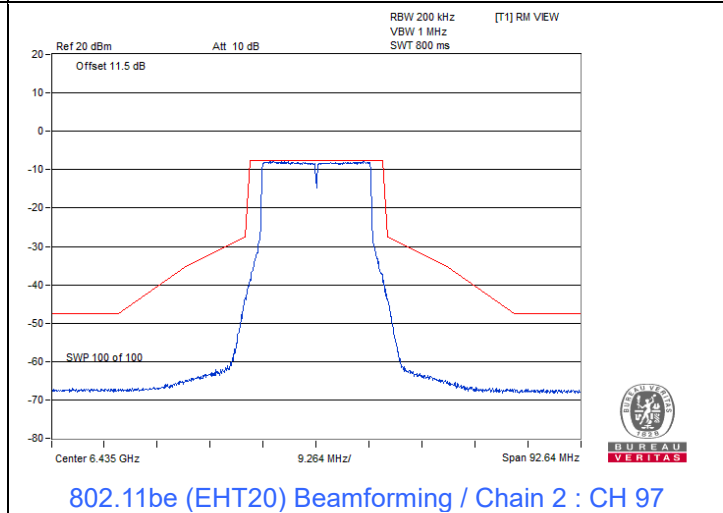
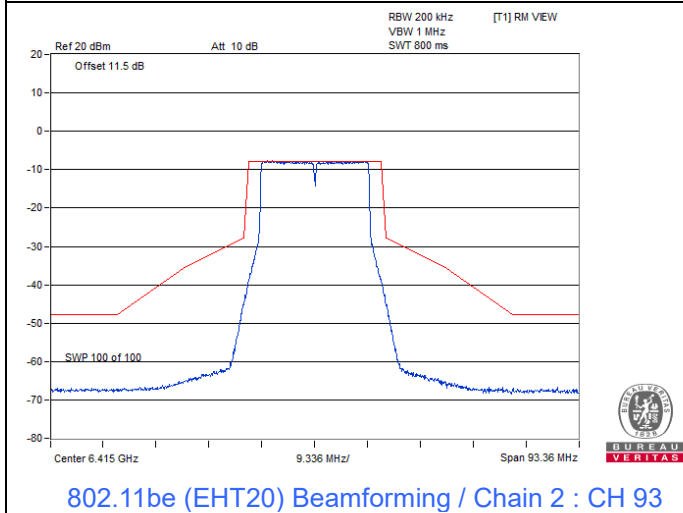
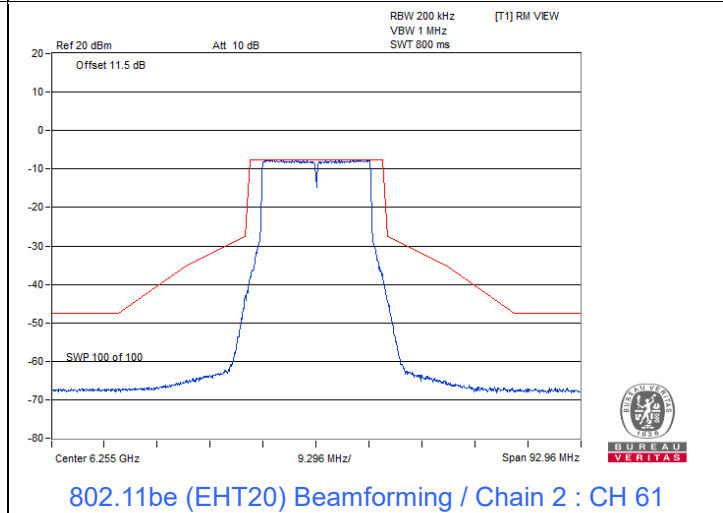
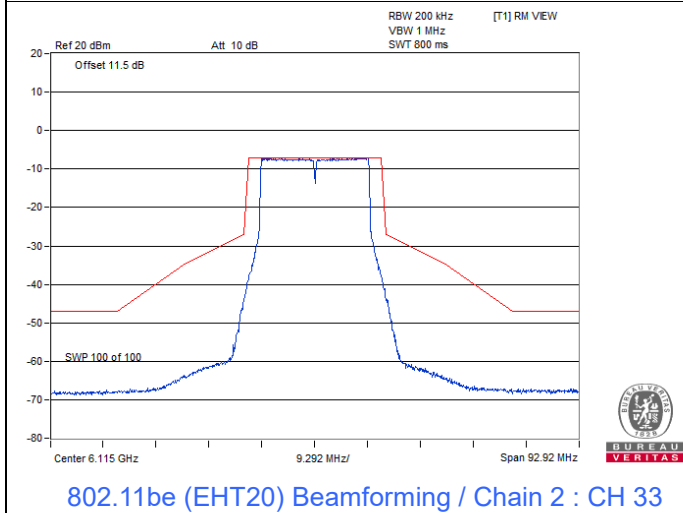
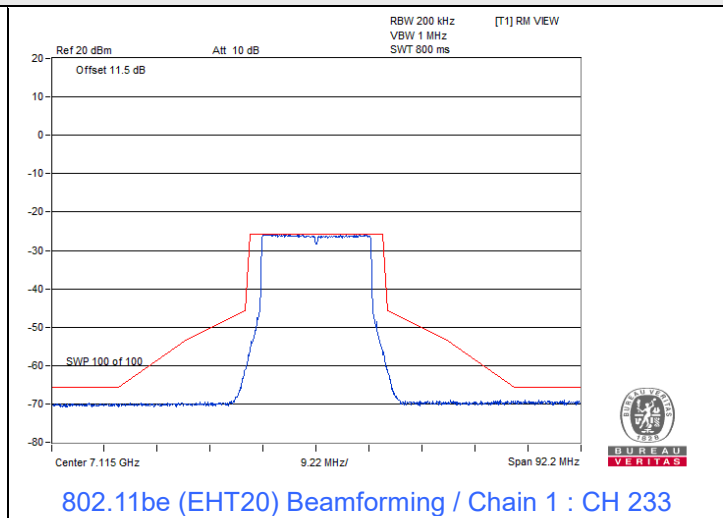
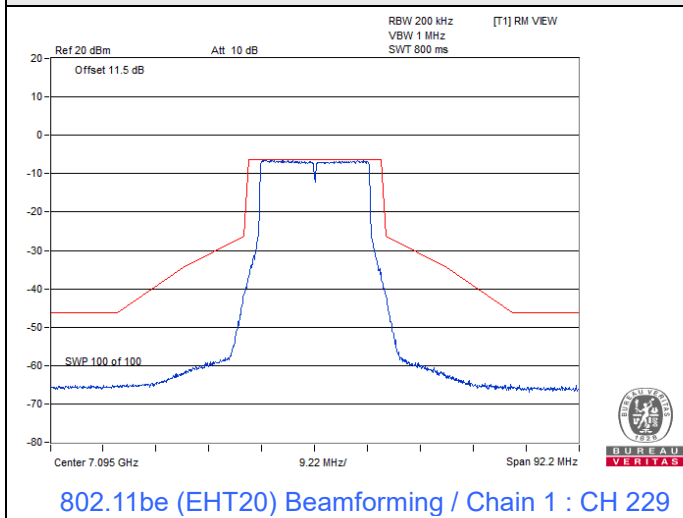
Spectrum Plot



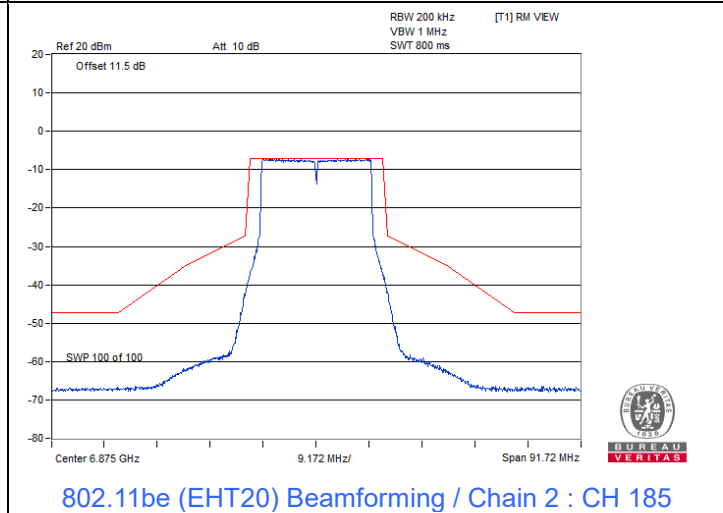
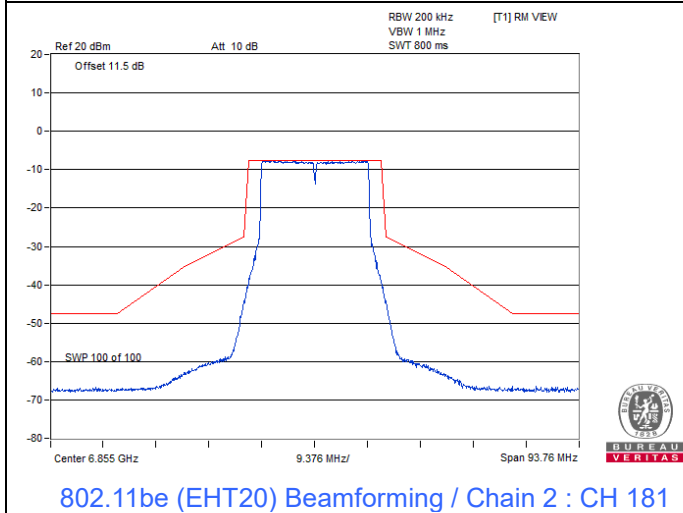
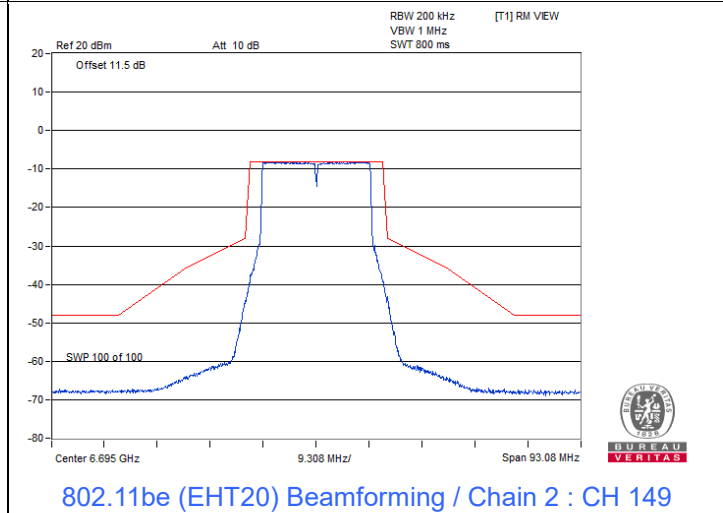
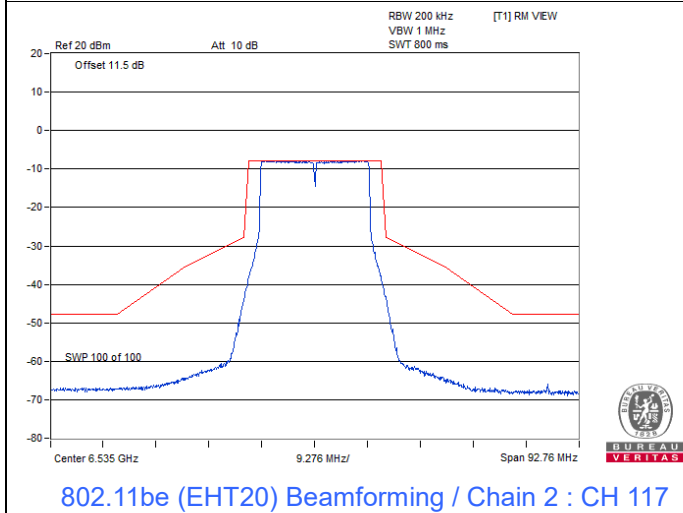
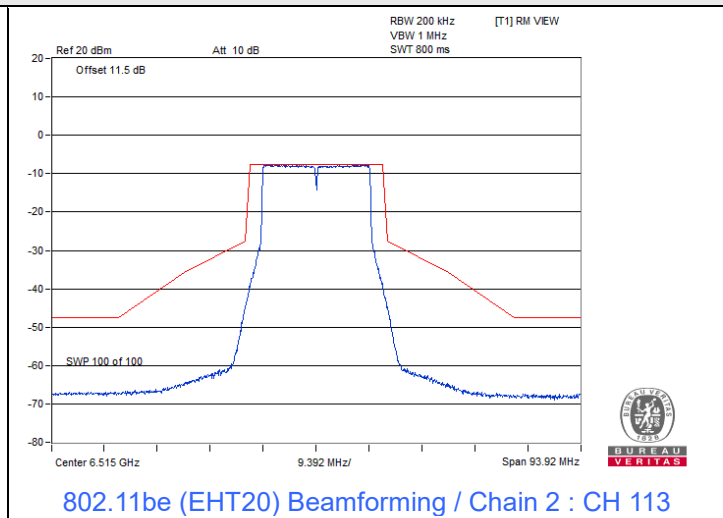
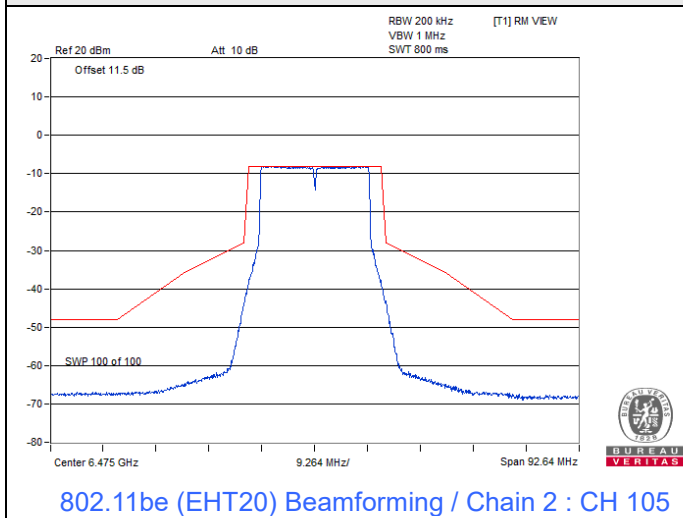
Spectrum Plot



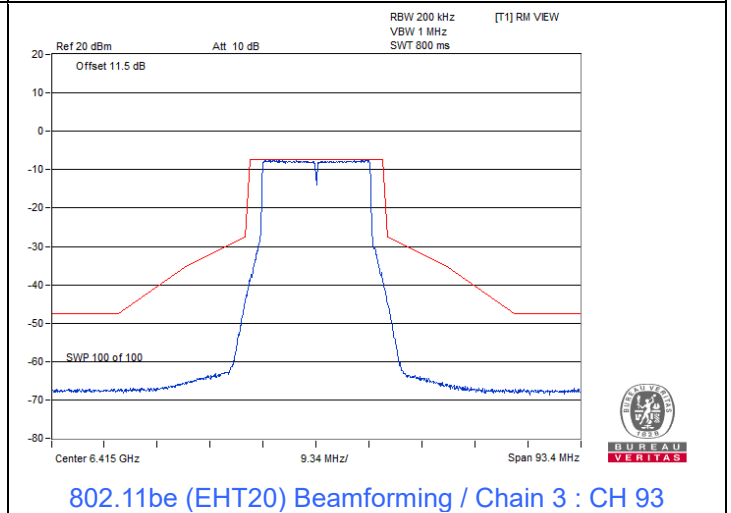
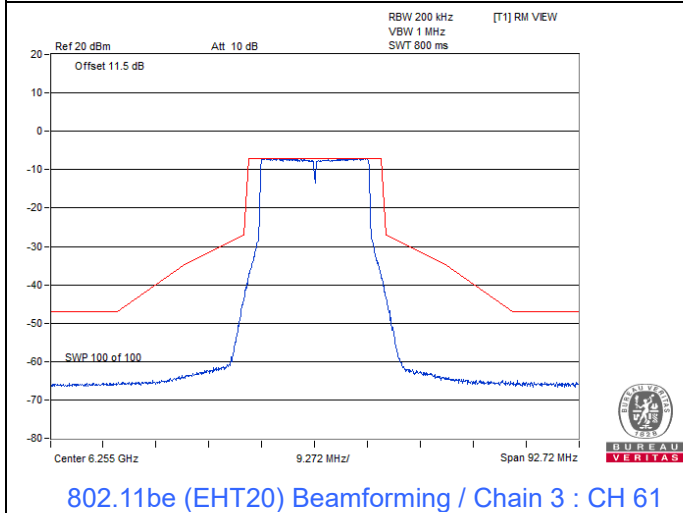
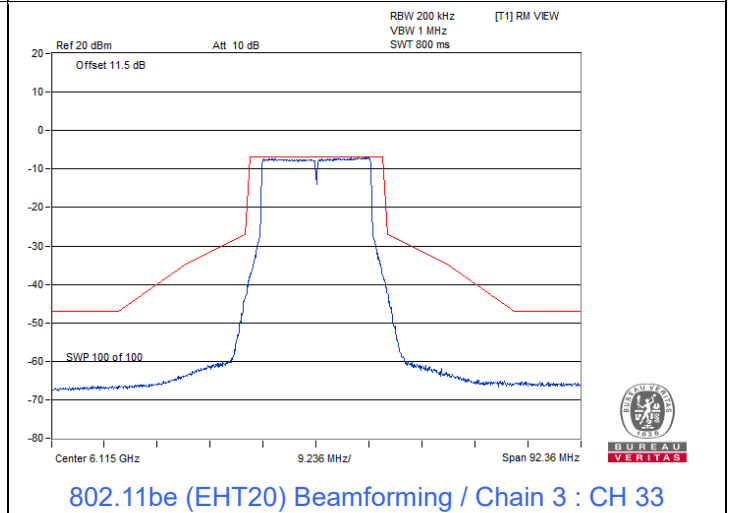
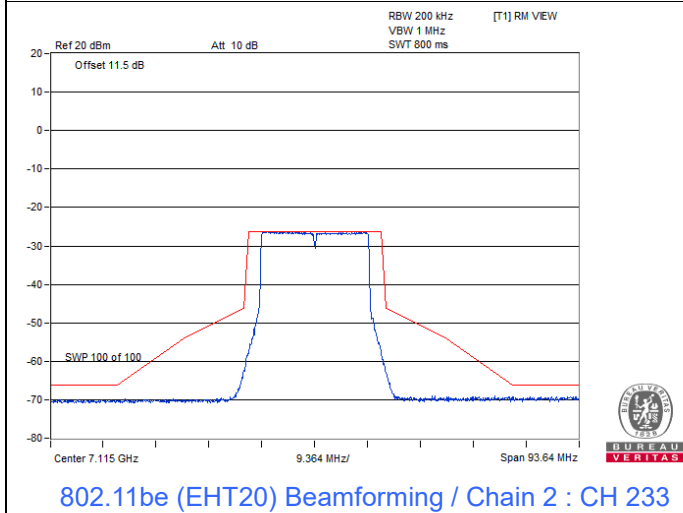
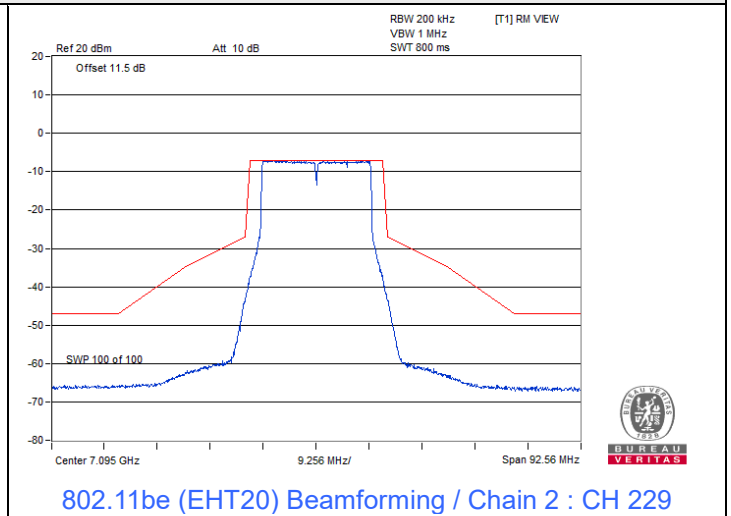
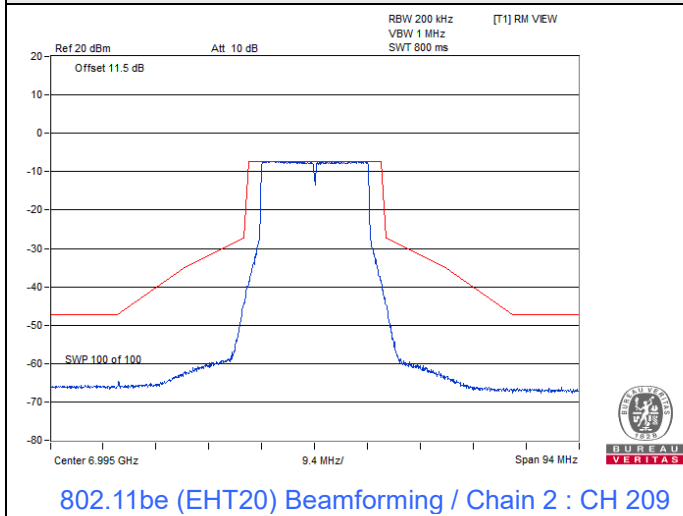
Spectrum Plot



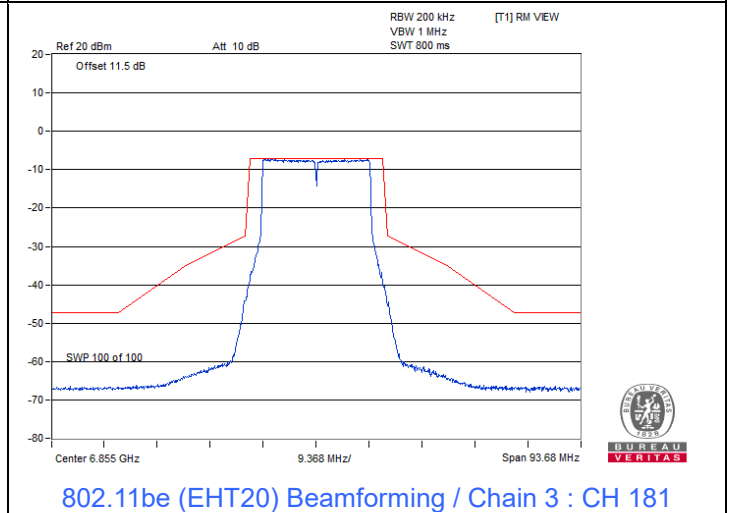
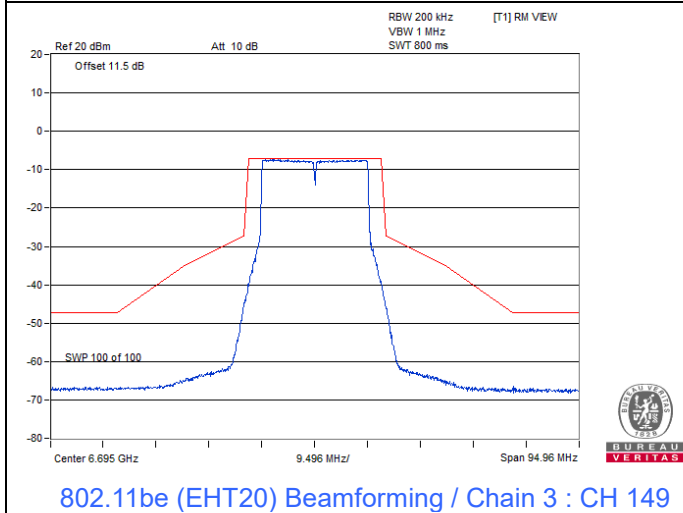
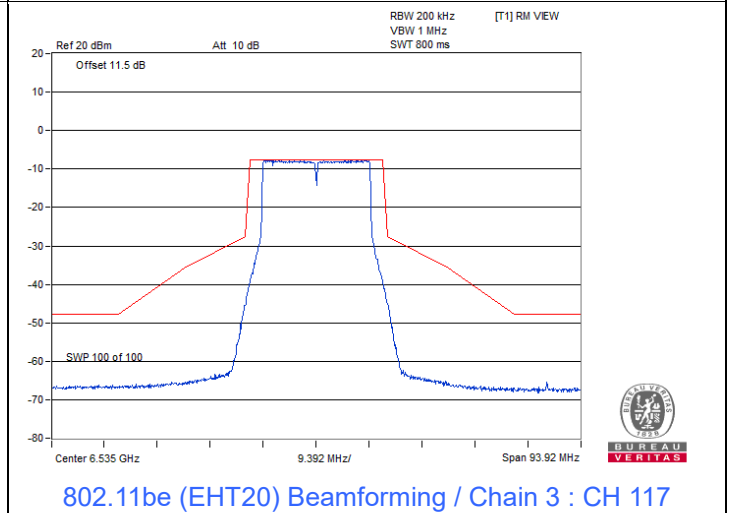
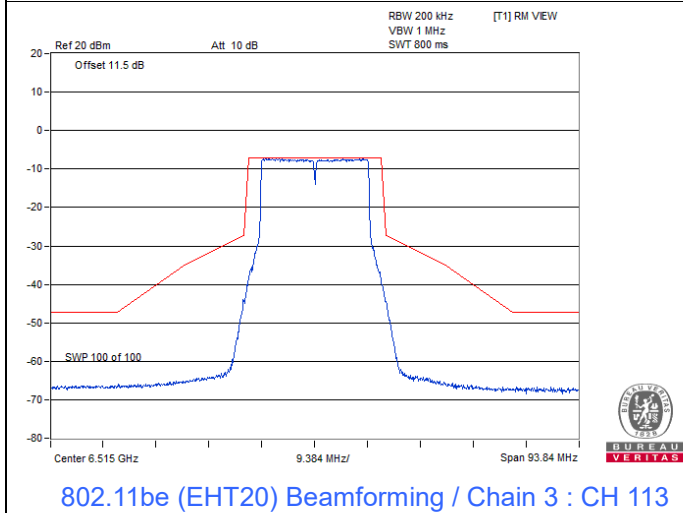
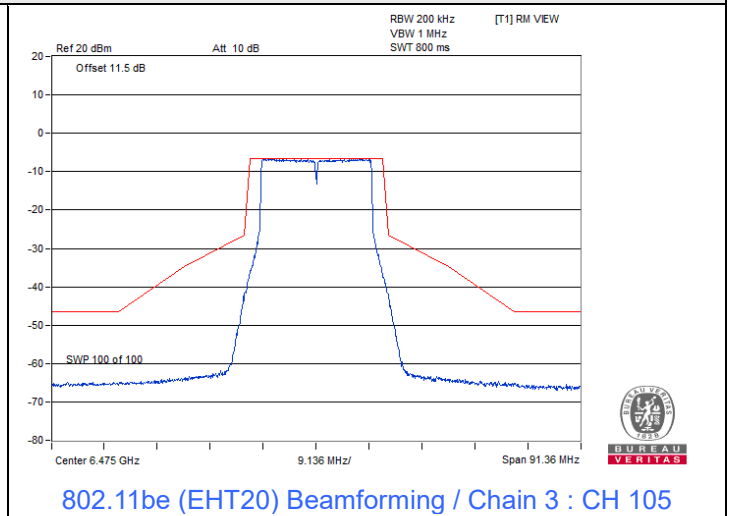
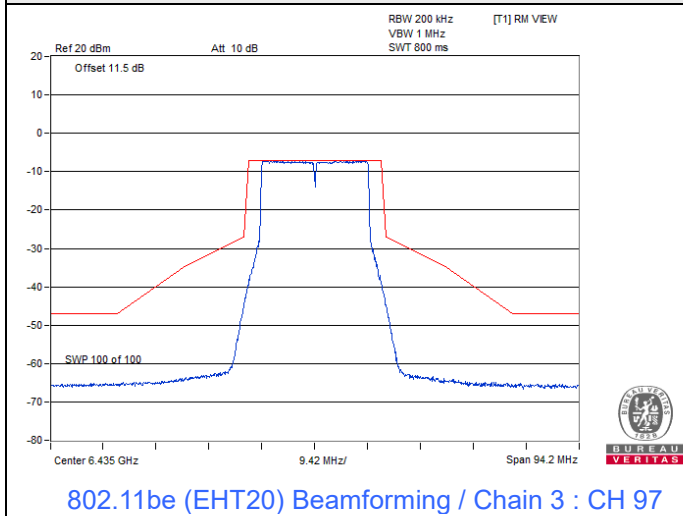
Spectrum Plot



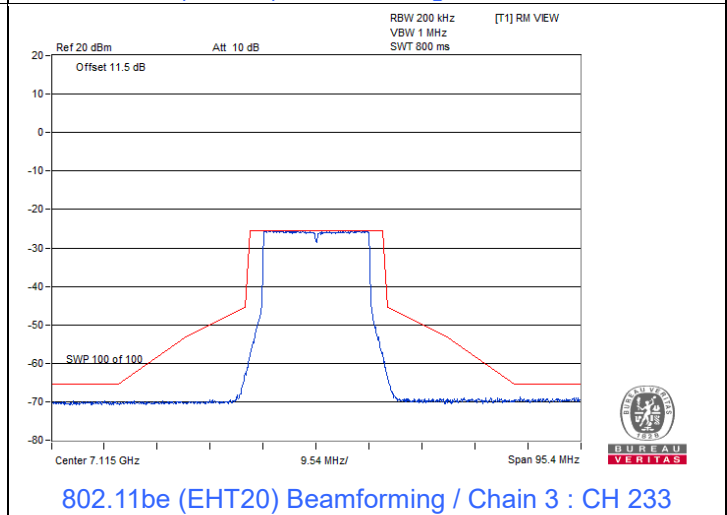
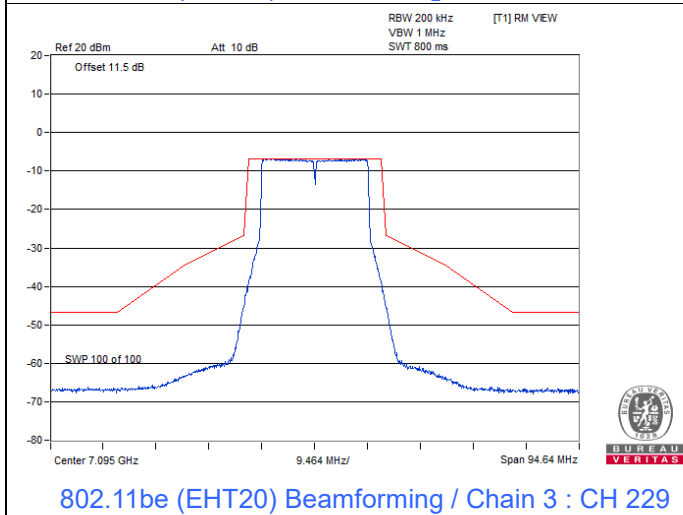
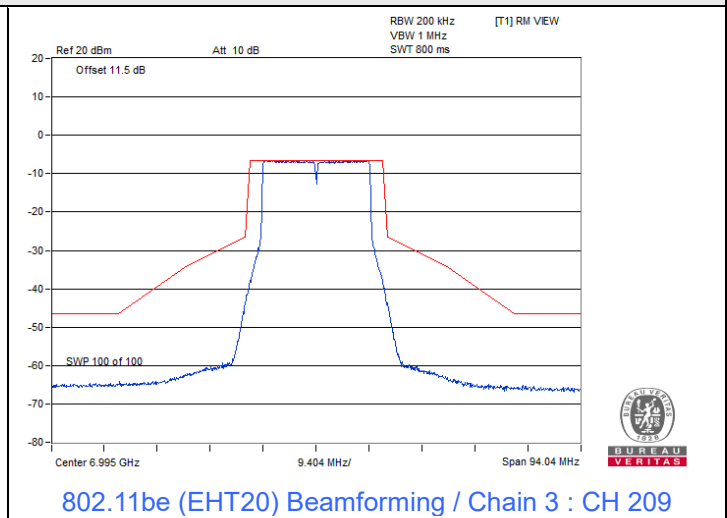
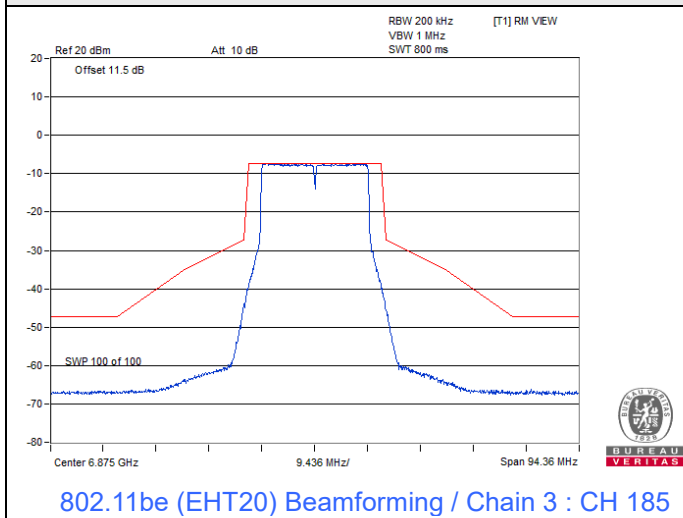
Spectrum Plot



Spectrum Plot

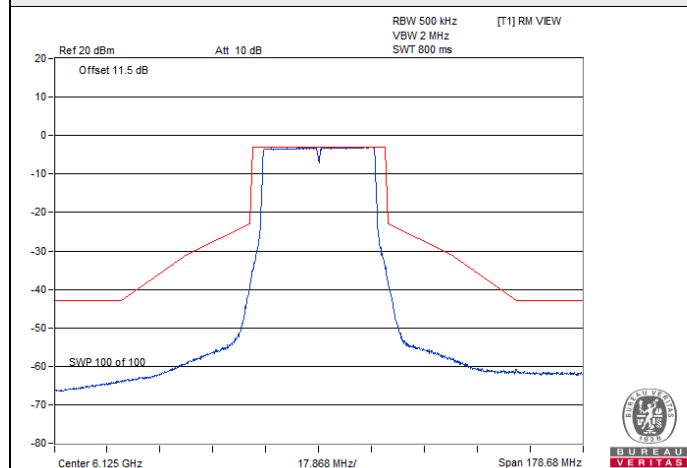


Spectrum Plot

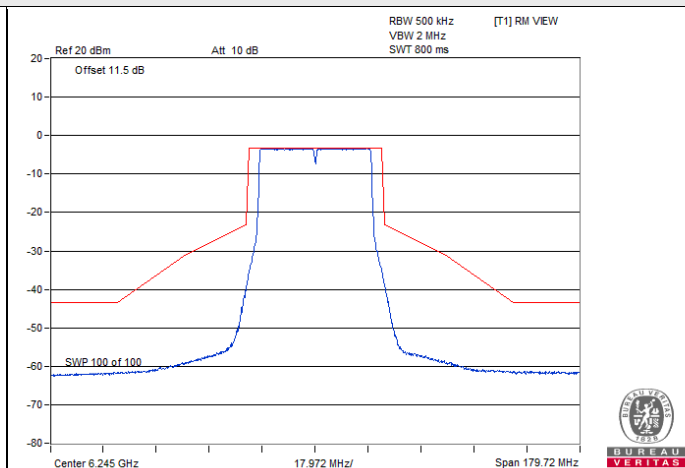


802.11be (EHT40) Beamforming

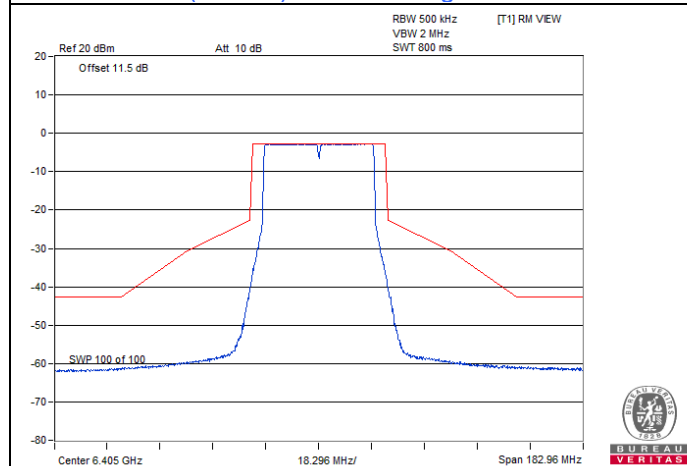
Spectrum Plot



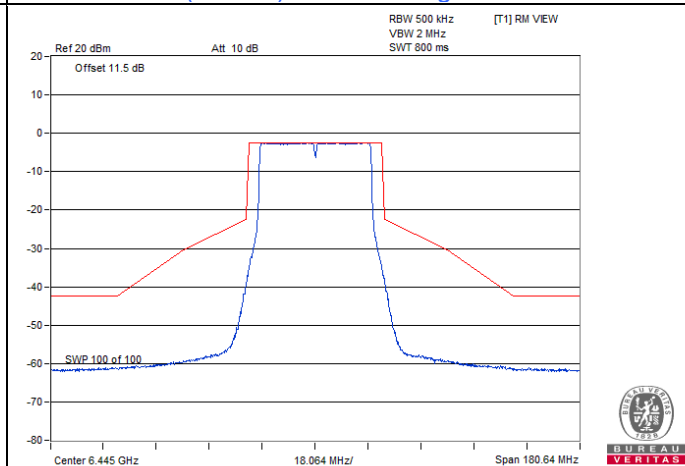
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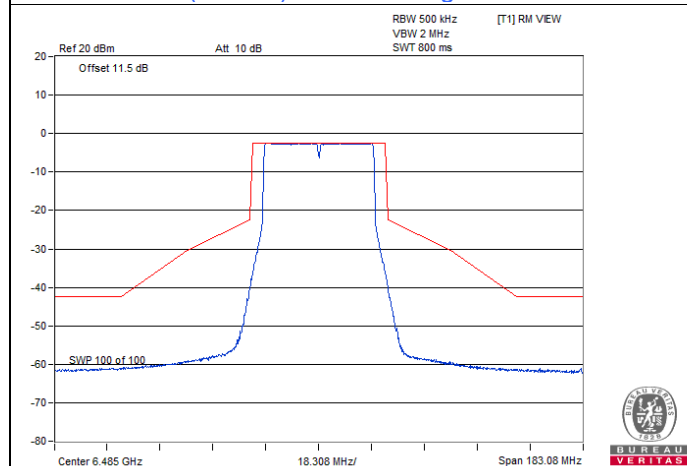
802.11be (EHT40) Beamforming / Chain 0 : CH 59



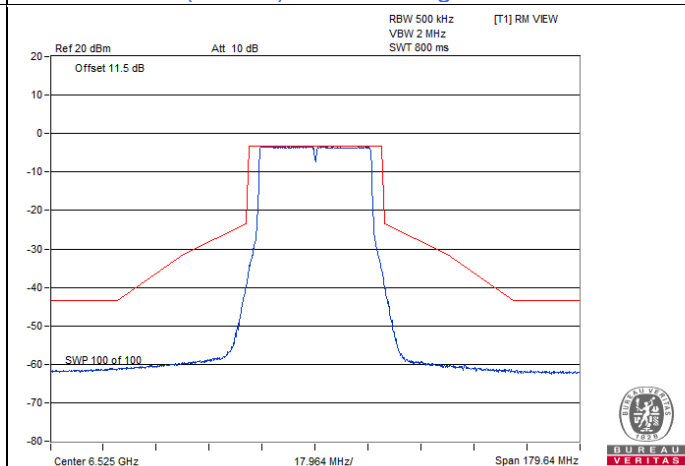
802.11be (EHT40) Beamforming / Chain 0 : CH 91



802.11be (EHT40) Beamforming / Chain 0 : CH 99

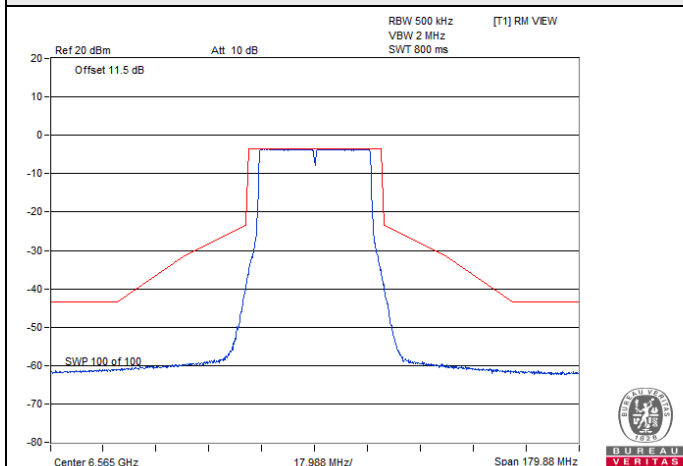


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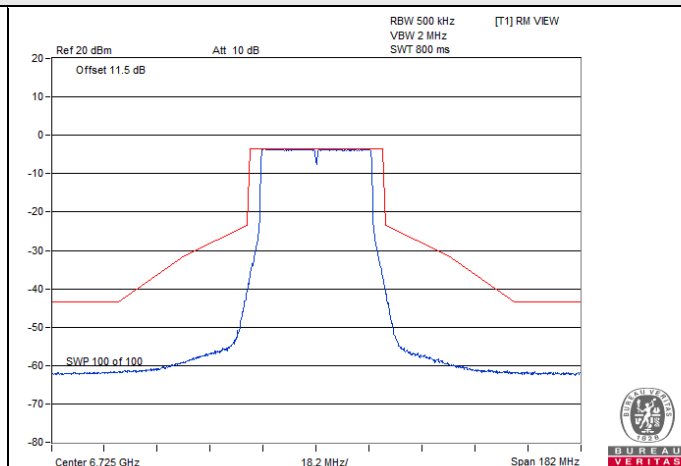


802.11be (EHT40) Beamforming / Chain 0 : CH 115

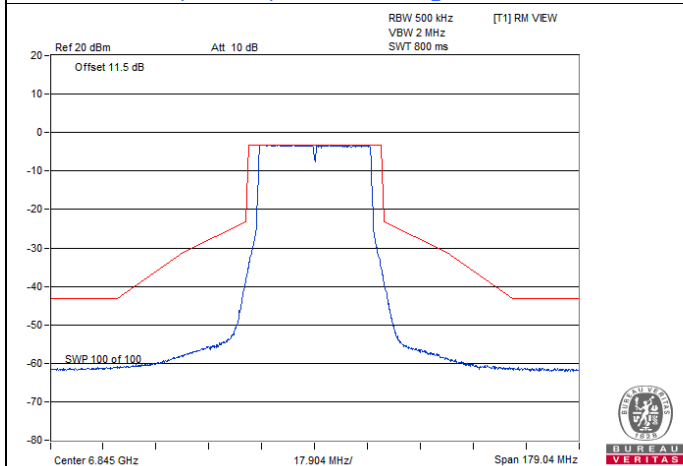
Spectrum Plot



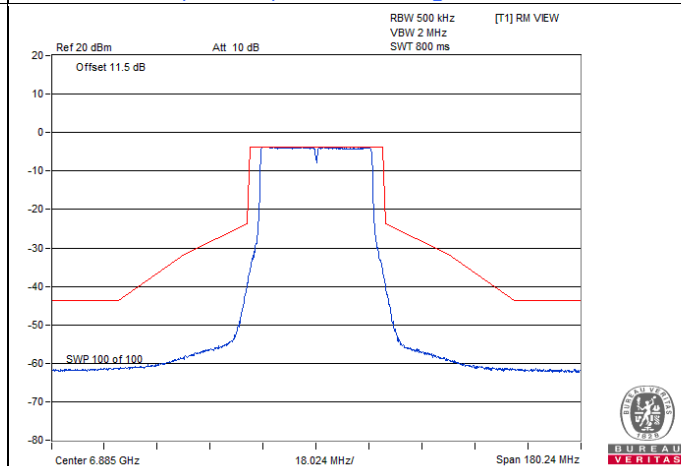
802.11be (EHT40) Beamforming / Chain 0 : CH 123



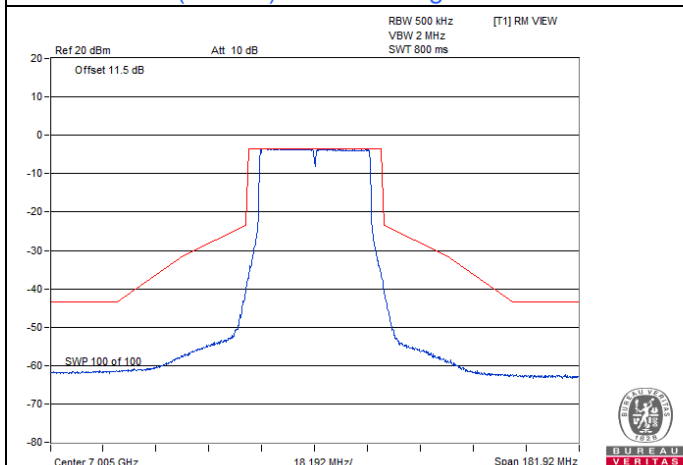
802.11be (EHT40) Beamforming / Chain 0 : CH 155



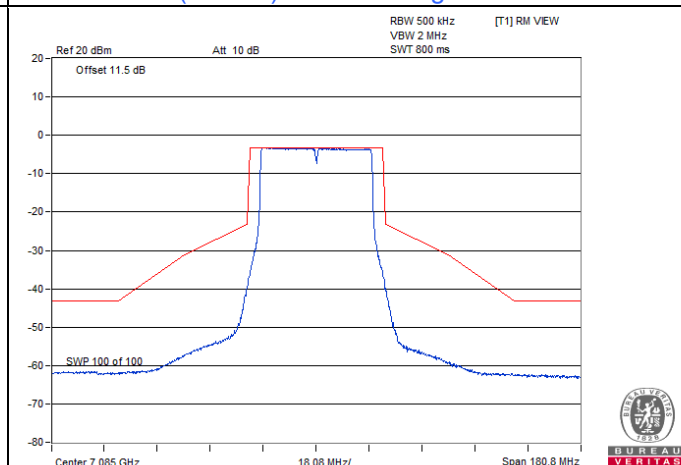
802.11be (EHT40) Beamforming / Chain 0 : CH 179



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

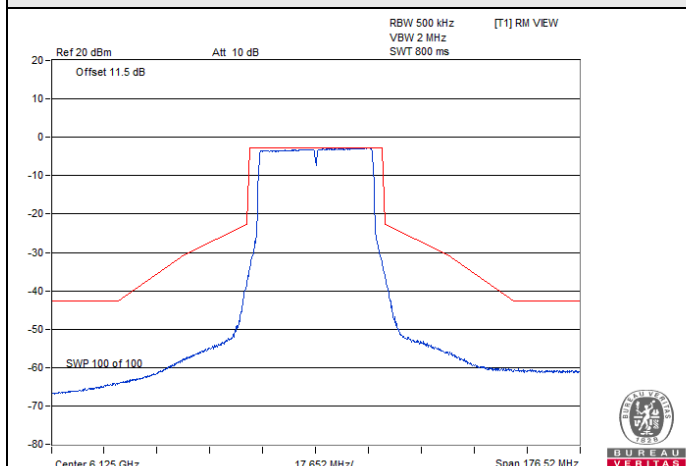


802.11be (EHT40) Beamforming / Chain 0 : CH 211

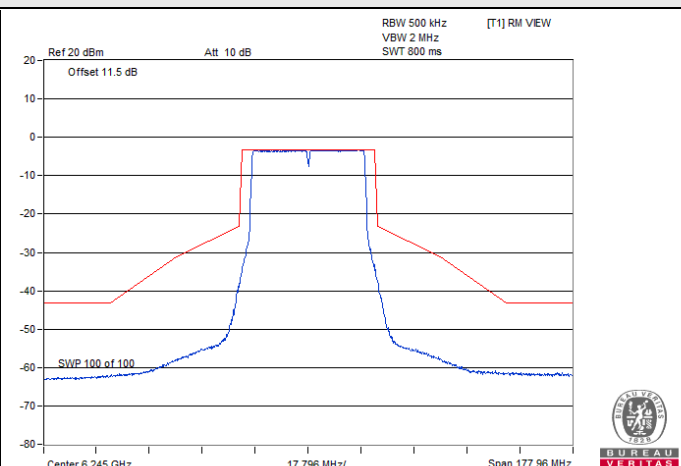


802.11be (EHT40) Beamforming / Chain 0 : CH 227

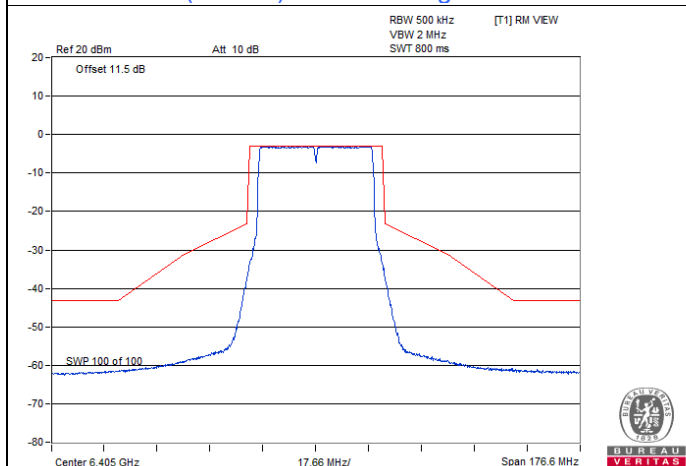
Spectrum Plot



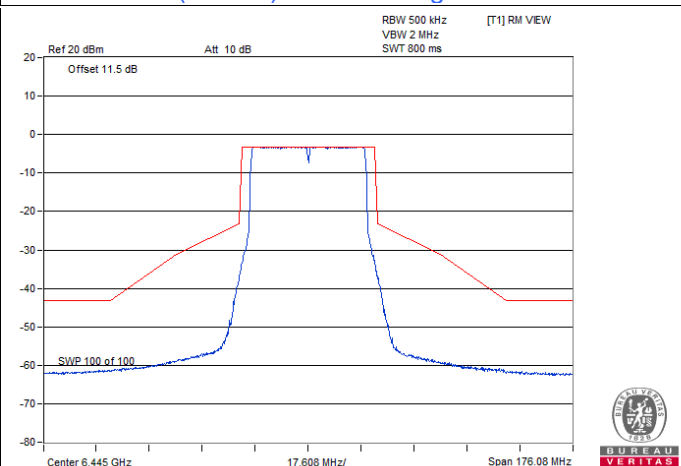
802.11be (EHT40) Beamforming / Chain 1 : CH 35



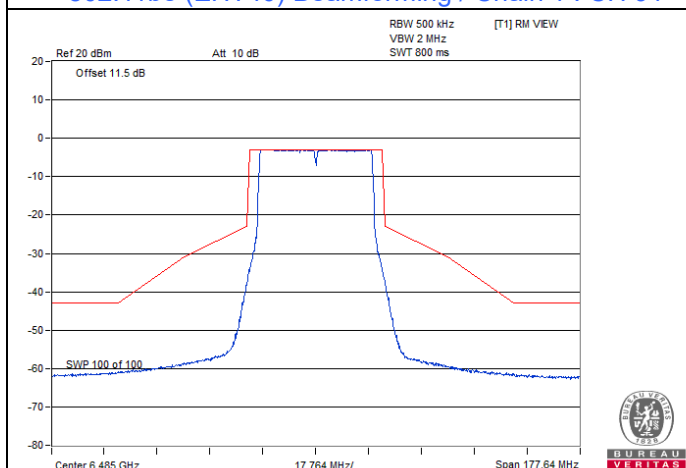
802.11be (EHT40) Beamforming / Chain 1 : CH 59



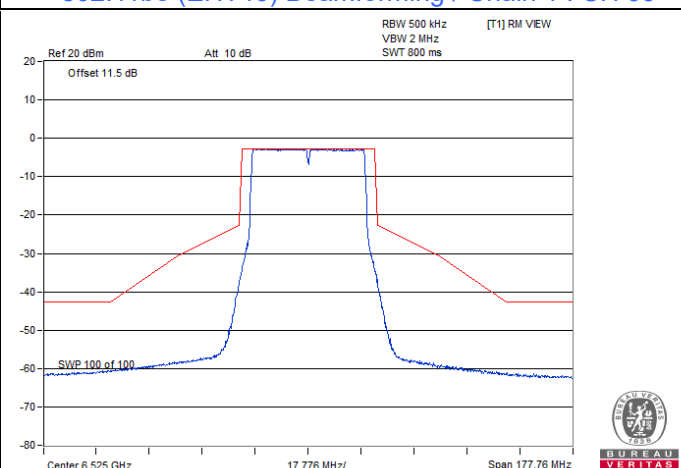
802.11be (EHT40) Beamforming / Chain 1 : CH 91



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

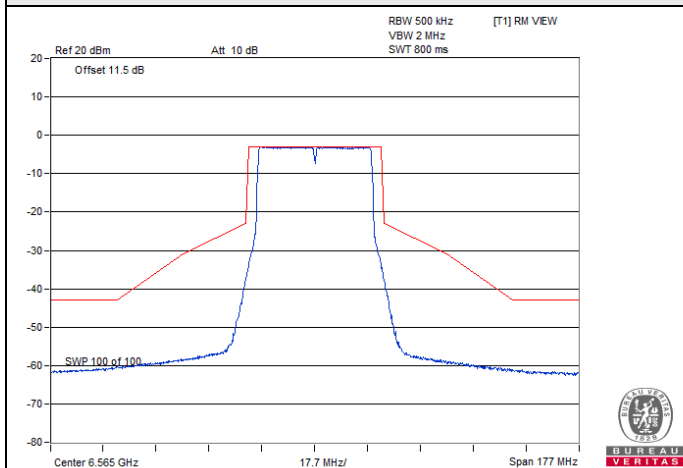


802.11be (EHT40) Beamforming / Chain 1 : CH 107

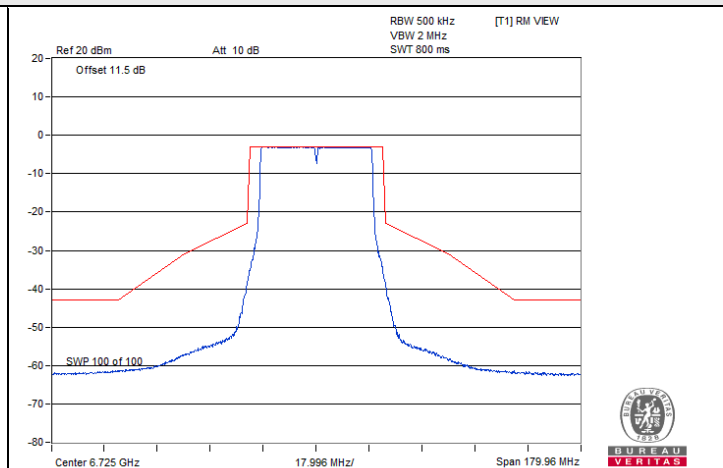


802.11be (EHT40) Beamforming / Chain 1 : CH 115

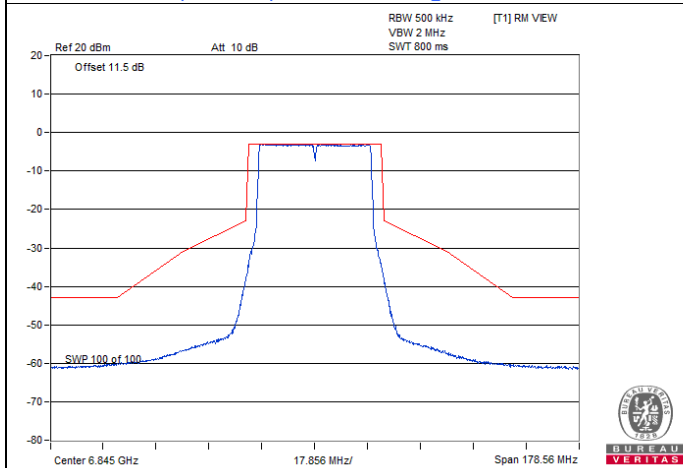
Spectrum Plot



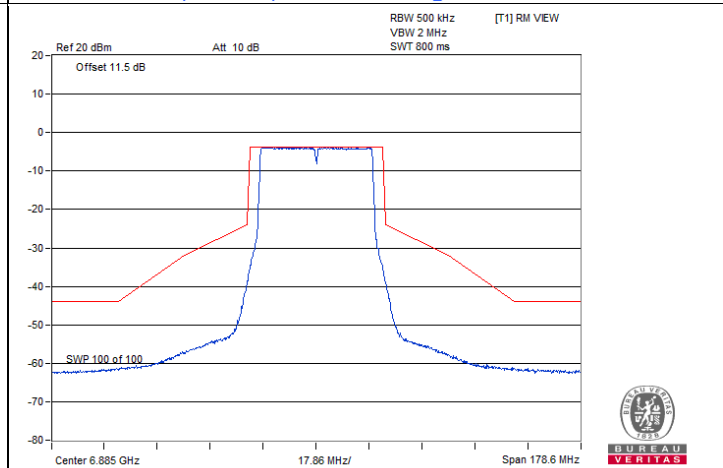
802.11be (EHT40) Beamforming / Chain 1 : CH 123



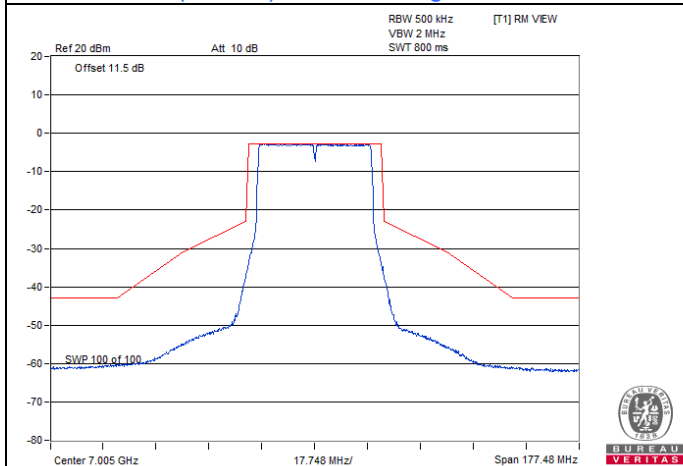
802.11be (EHT40) Beamforming / Chain 1 : CH 155



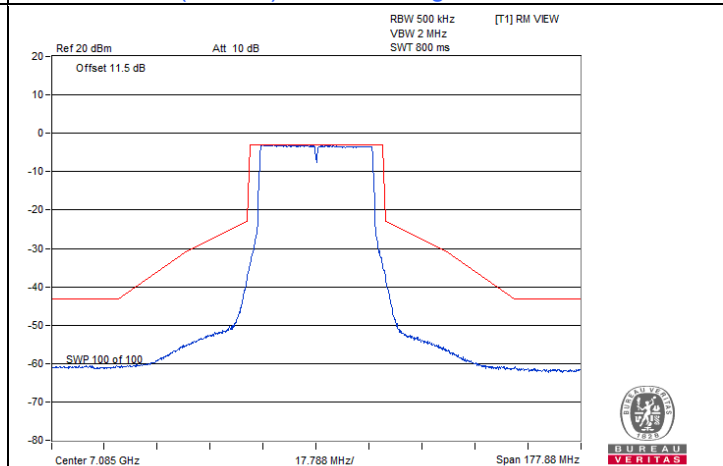
802.11be (EHT40) Beamforming / Chain 1 : CH 179



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

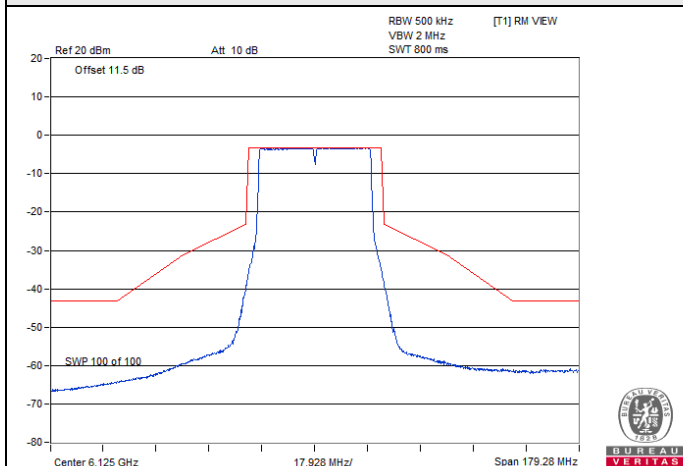


802.11be (EHT40) Beamforming / Chain 1 : CH 211

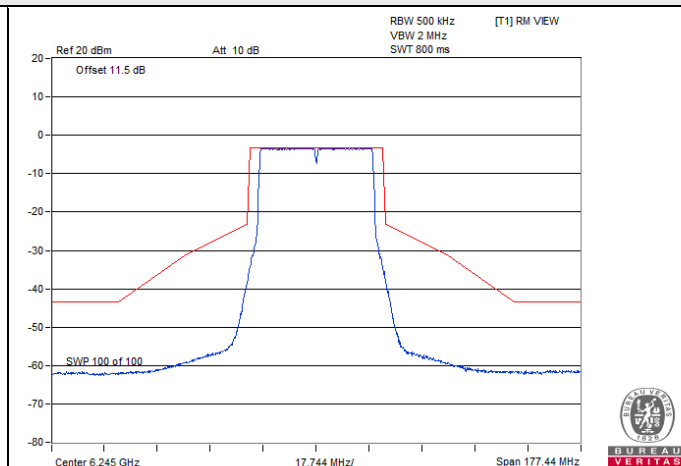


802.11be (EHT40) Beamforming / Chain 1 : CH 227

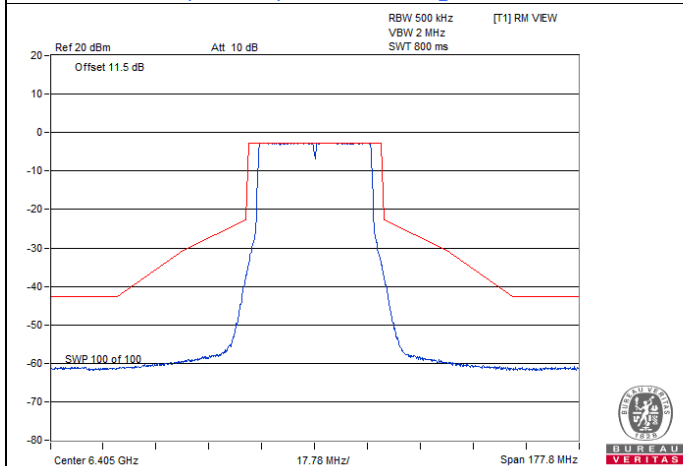
Spectrum Plot



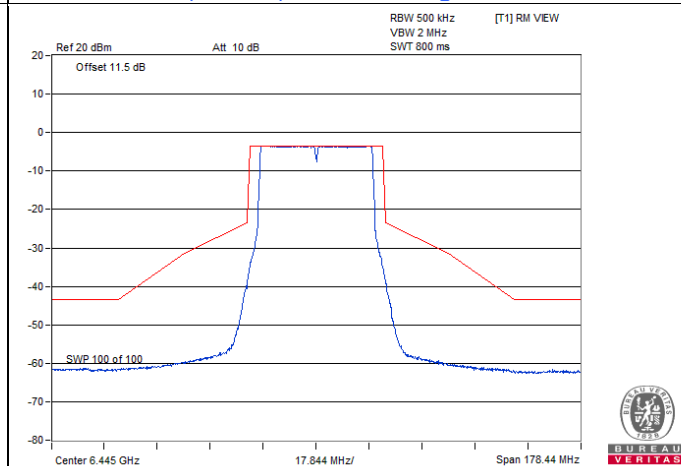
802.11be (EHT40) Beamforming / Chain 2 : CH 35



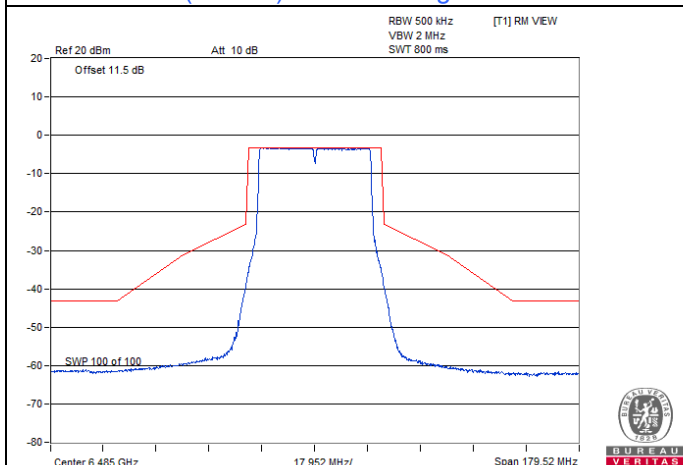
802.11be (EHT40) Beamforming / Chain 2 : CH 59



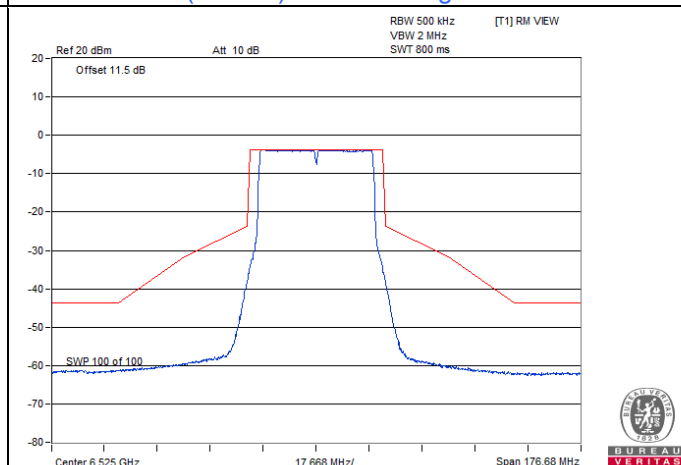
802.11be (EHT40) Beamforming / Chain 2 : CH 91



802.11be (EHT40) Beamforming / Chain 2 : CH 99

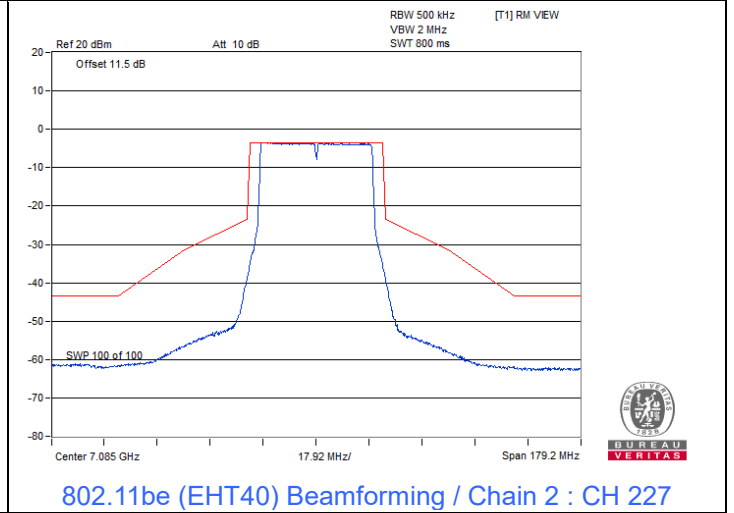
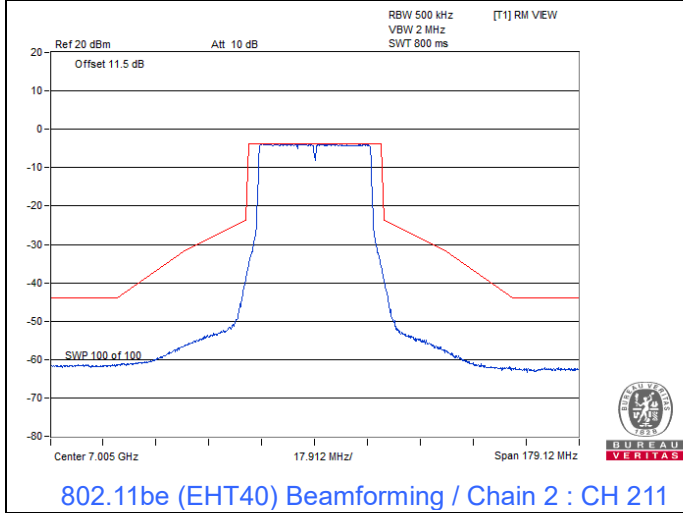
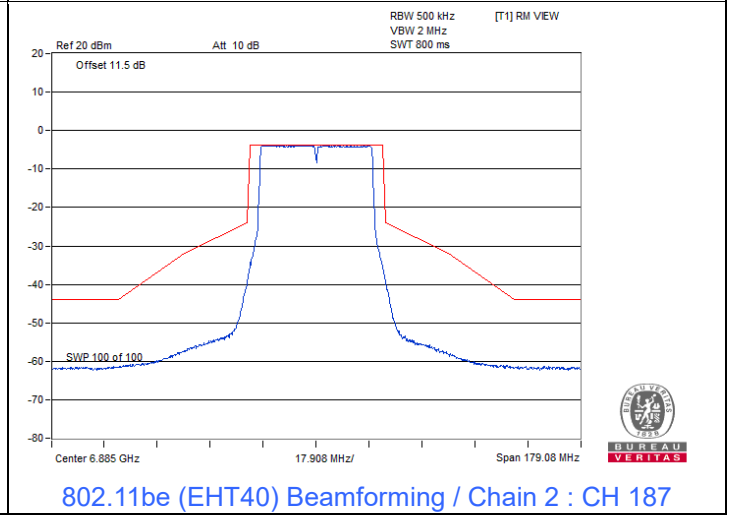
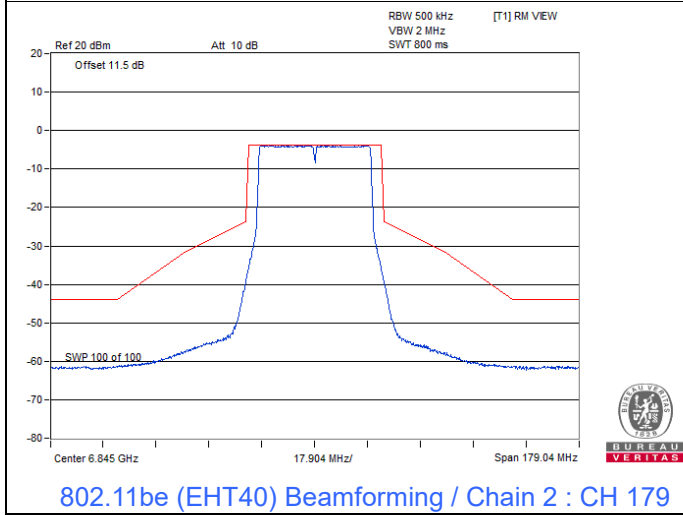
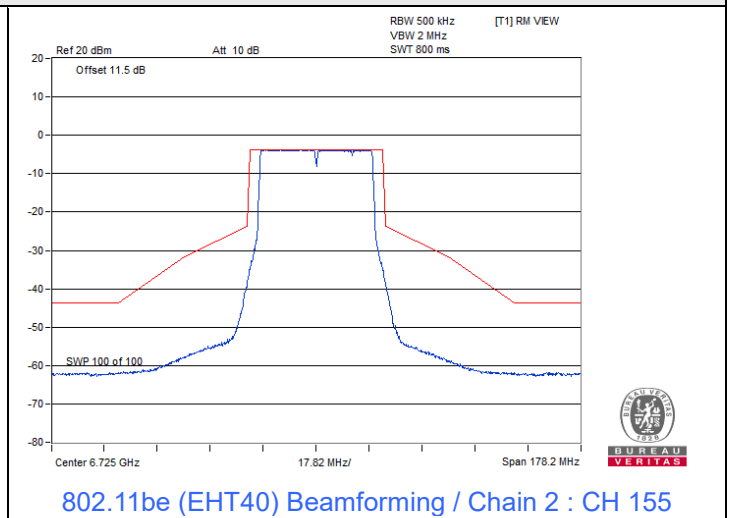
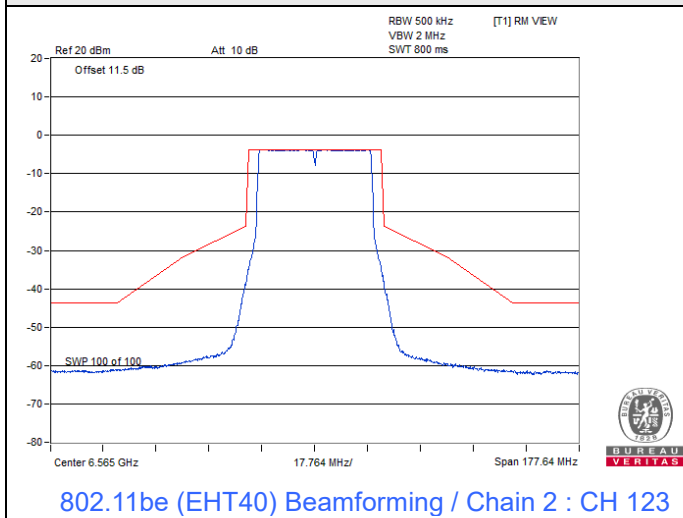


802.11be (EHT40) Beamforming / Chain 2 : CH 107

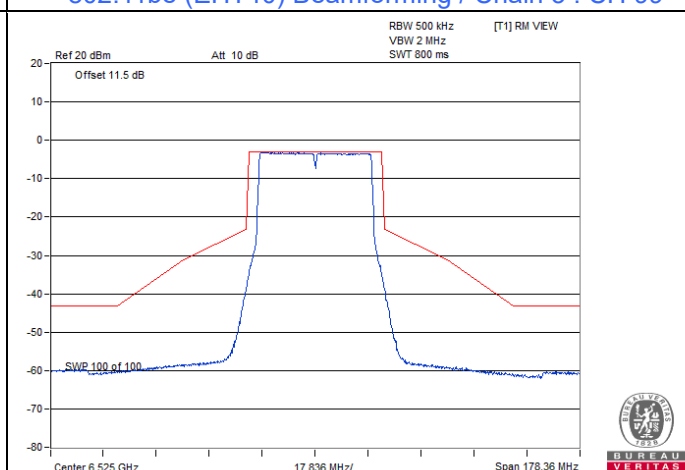
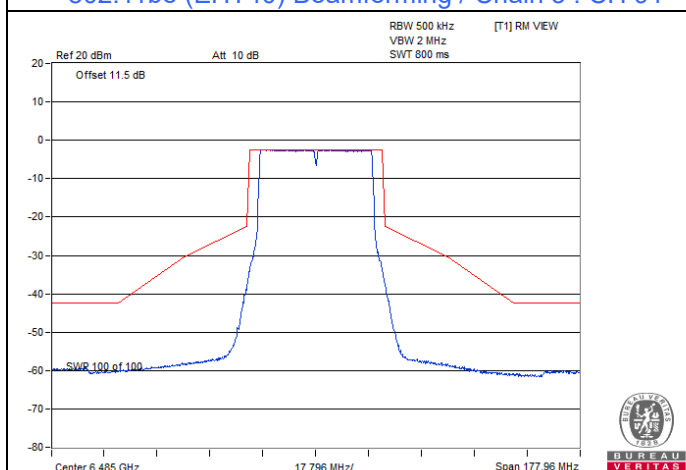
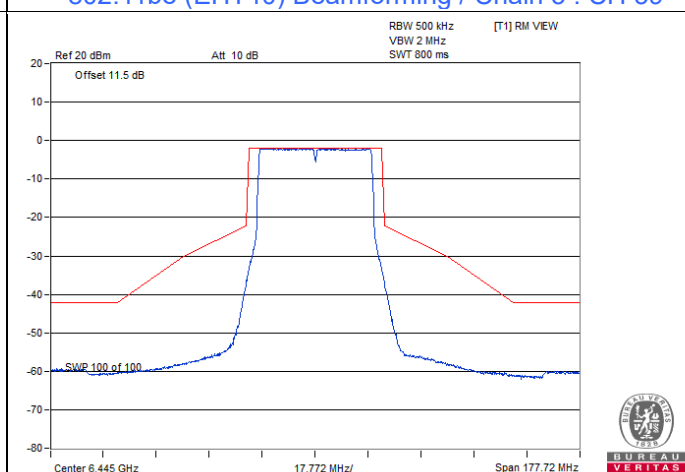
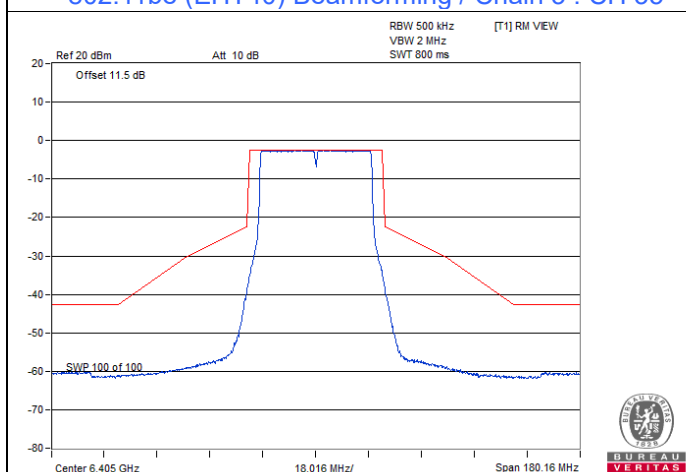
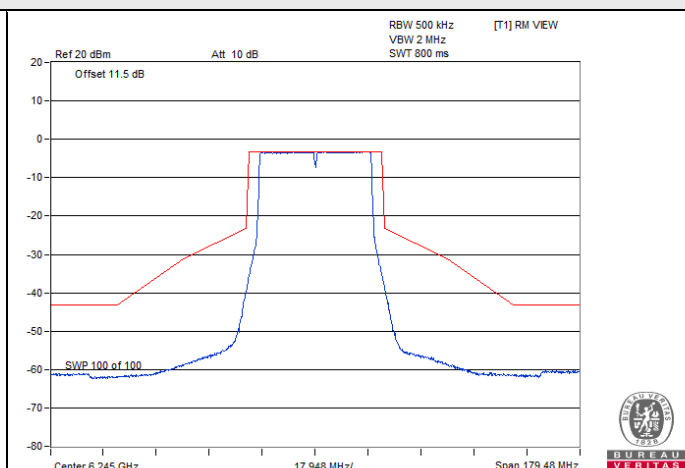
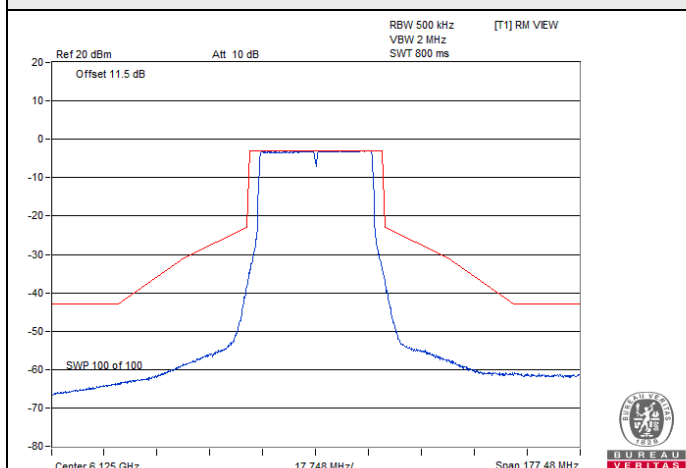


802.11be (EHT40) Beamforming / Chain 2 : CH 115

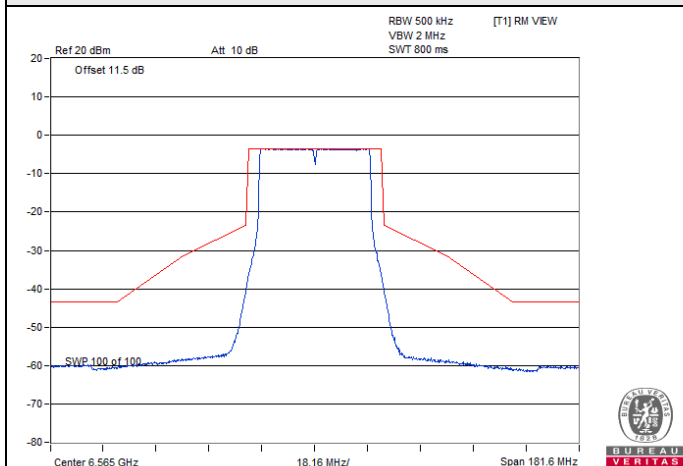
Spectrum Plot



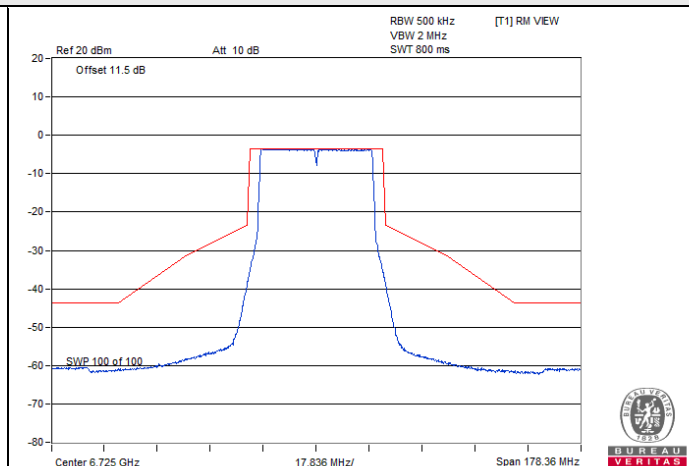
Spectrum Plot



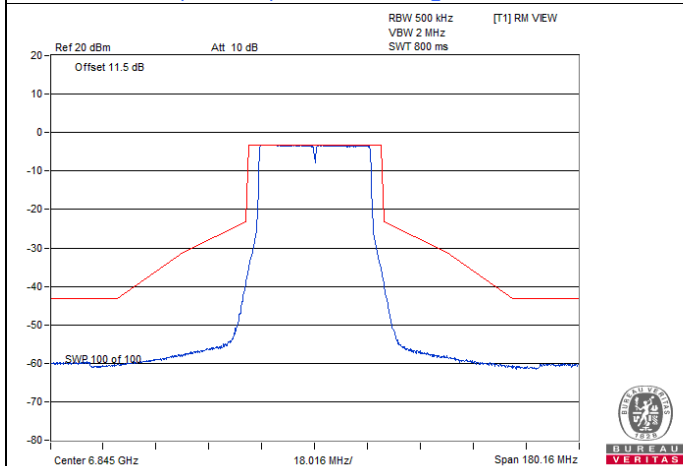
Spectrum Plot



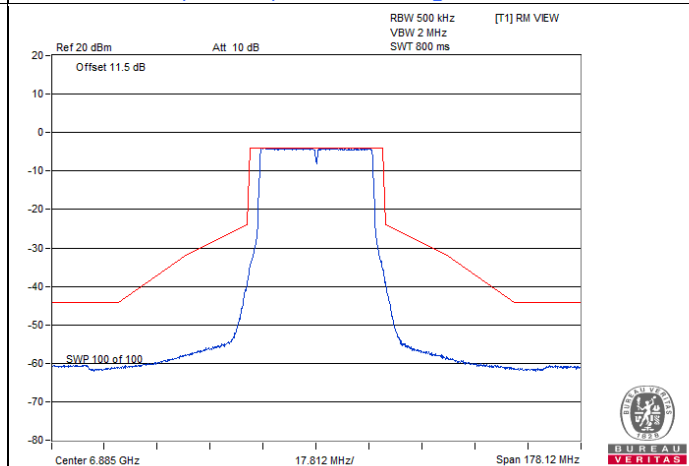
802.11be (EHT40) Beamforming / Chain 3 : CH 123



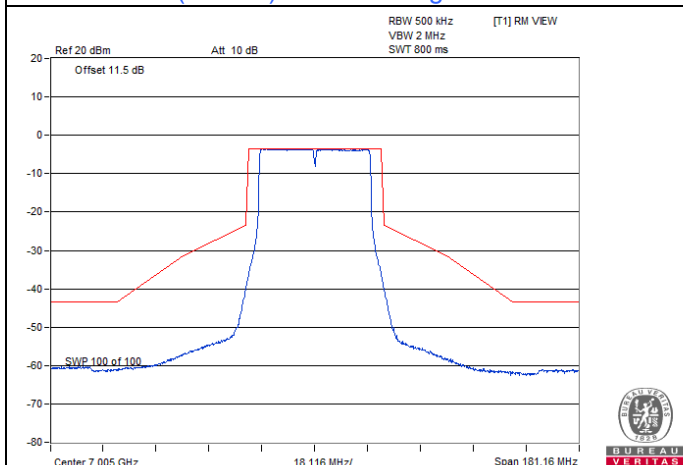
802.11be (EHT40) Beamforming / Chain 3 : CH 155



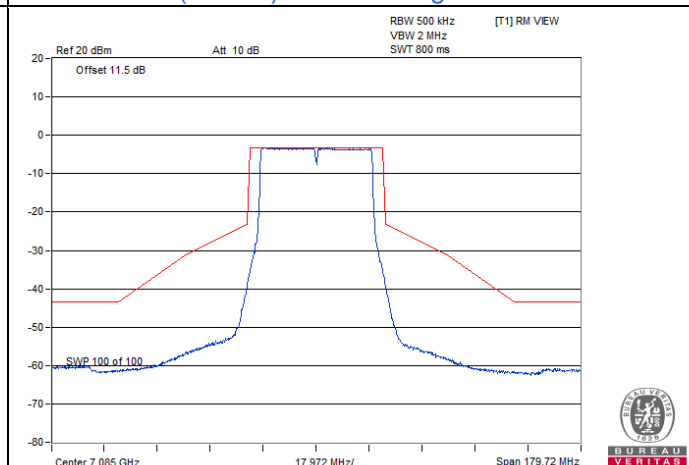
802.11be (EHT40) Beamforming / Chain 3 : CH 179



802.11be (EHT40) Beamforming / Chain 3 : CH 187



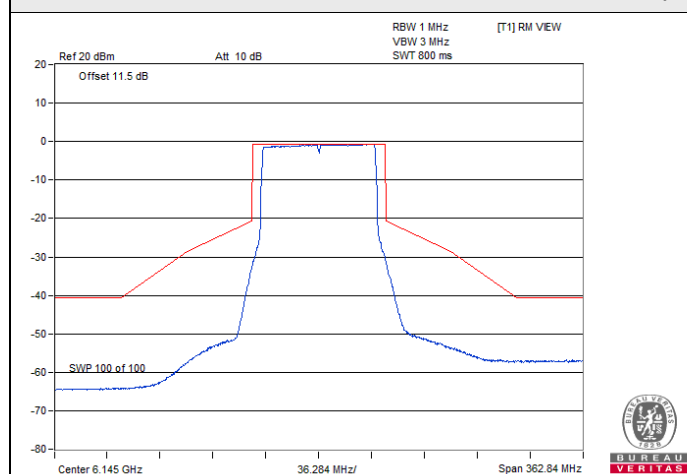
802.11be (EHT40) Beamforming / Chain 3 : CH 211



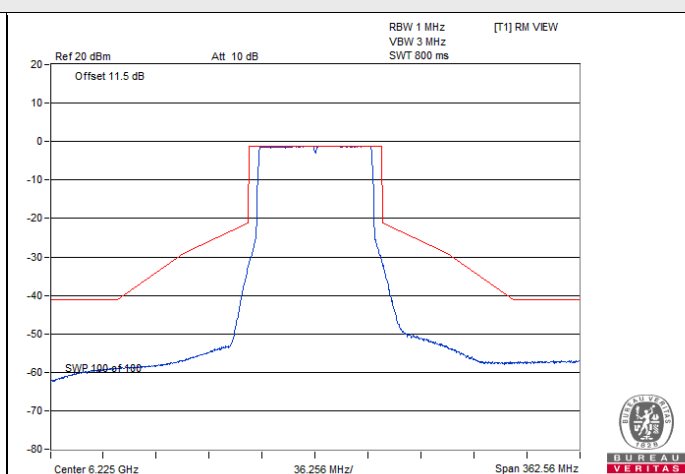
802.11be (EHT40) Beamforming / Chain 3 : CH 227

802.11be (EHT80)

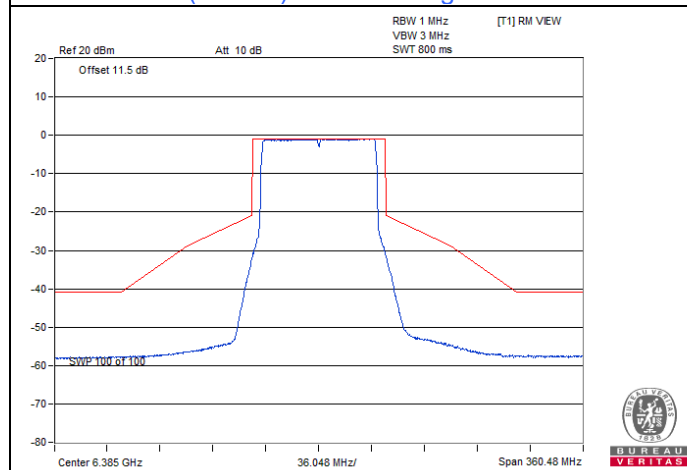
Spectrum Plot



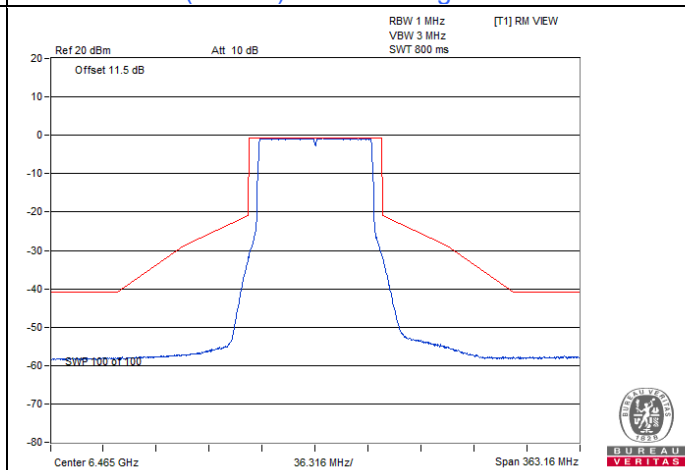
802.11be (EHT80) Beamforming / Chain 0 : CH 39



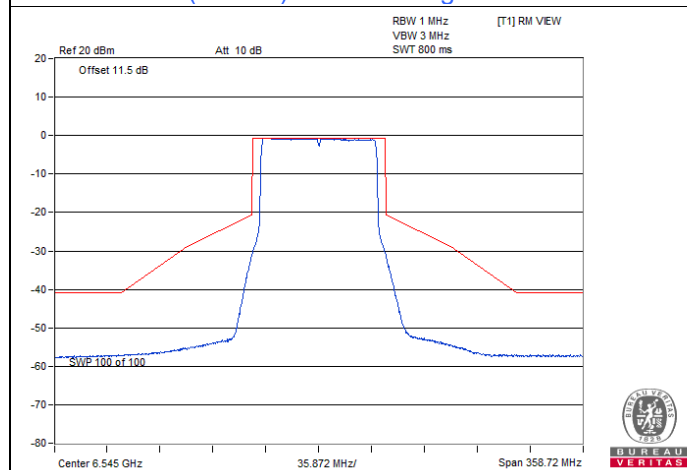
802.11be (EHT80) Beamforming / Chain 0 : CH 55



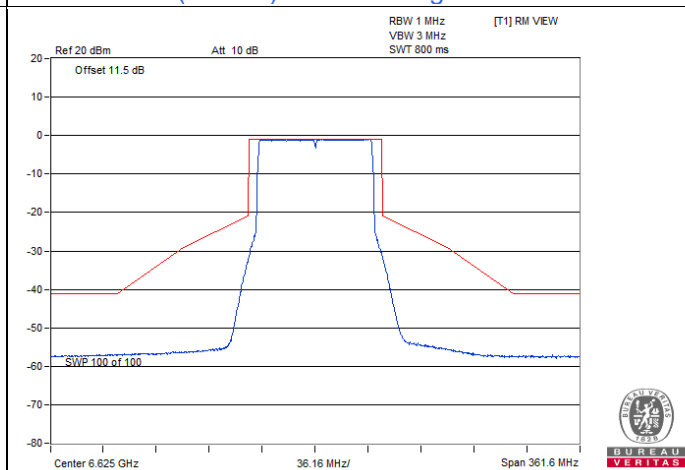
802.11be (EHT80) Beamforming / Chain 0 : CH 87



802.11be (EHT80) Beamforming / Chain 0 : CH 103

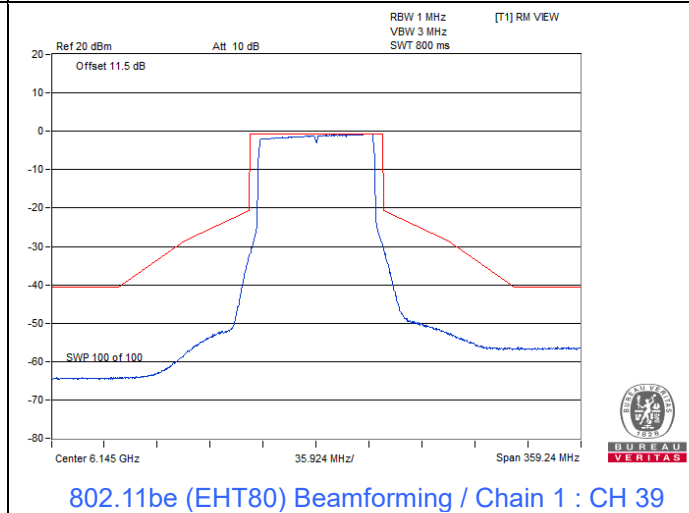
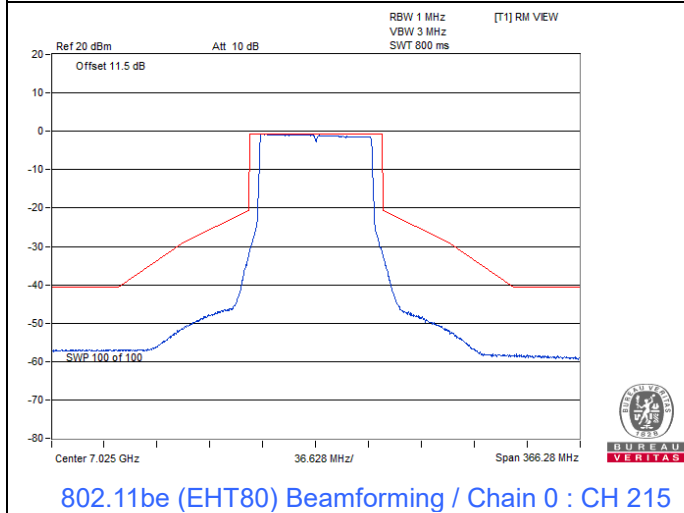
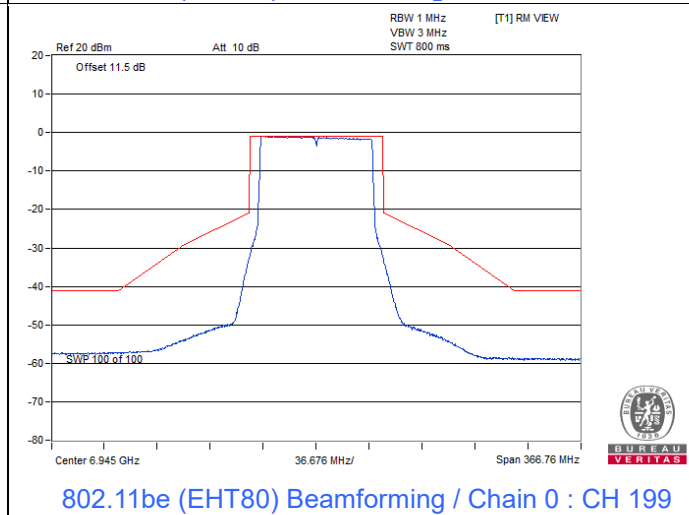
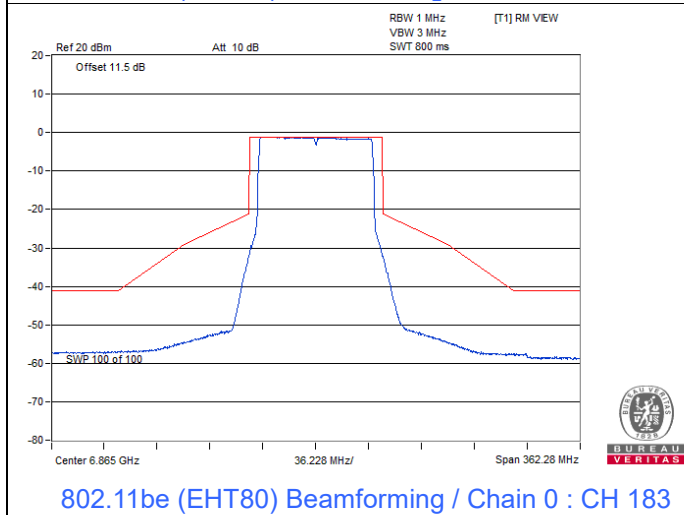
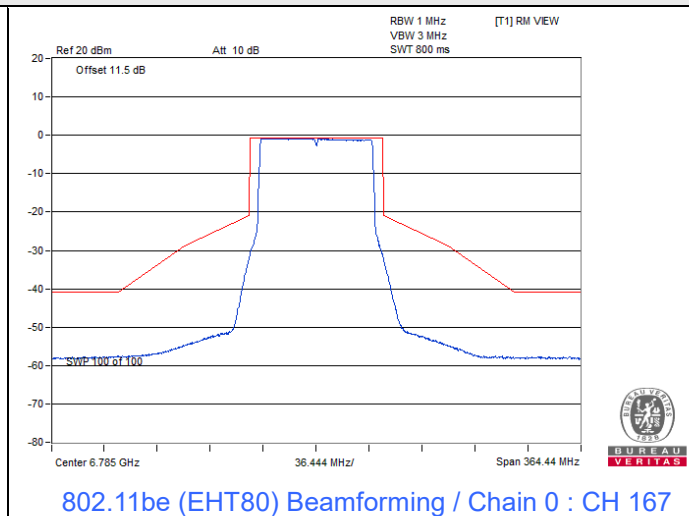
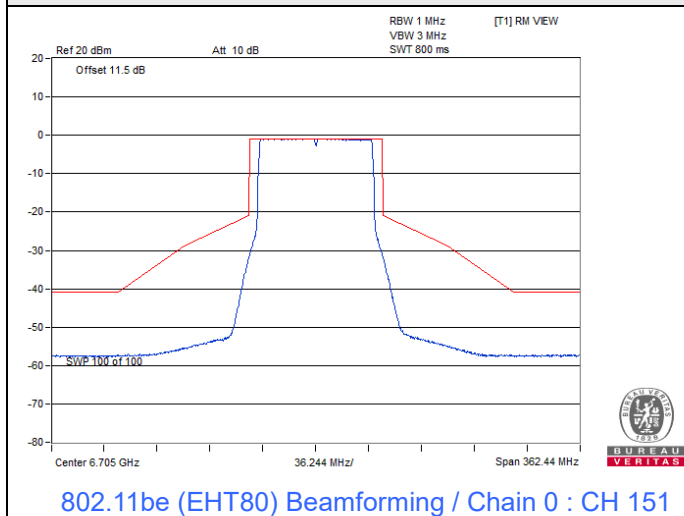


802.11be (EHT80) Beamforming / Chain 0 : CH 119

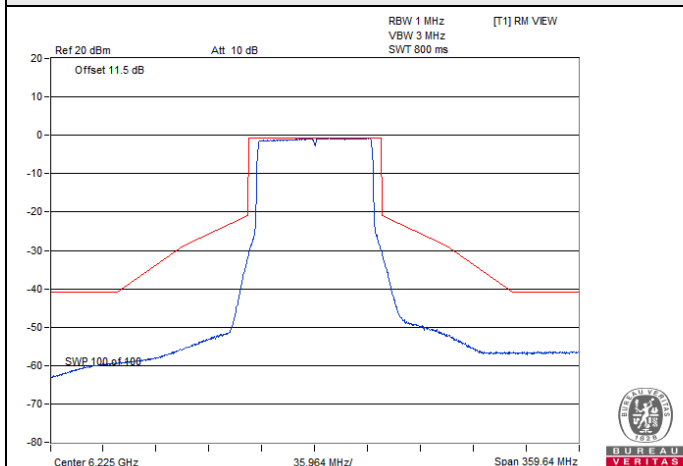


802.11be (EHT80) Beamforming / Chain 0 : CH 135

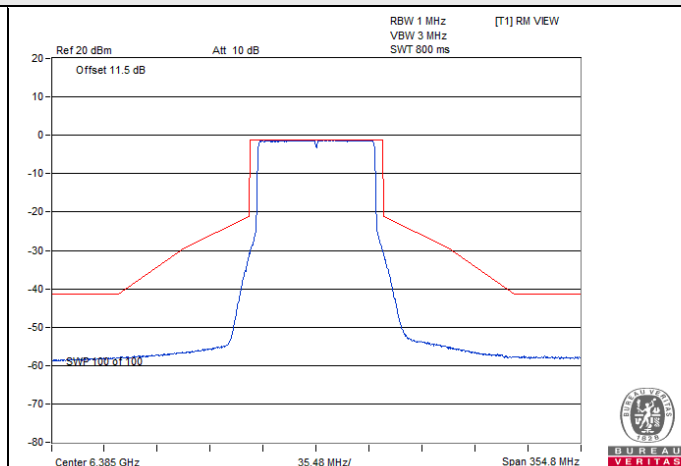
Spectrum Plot



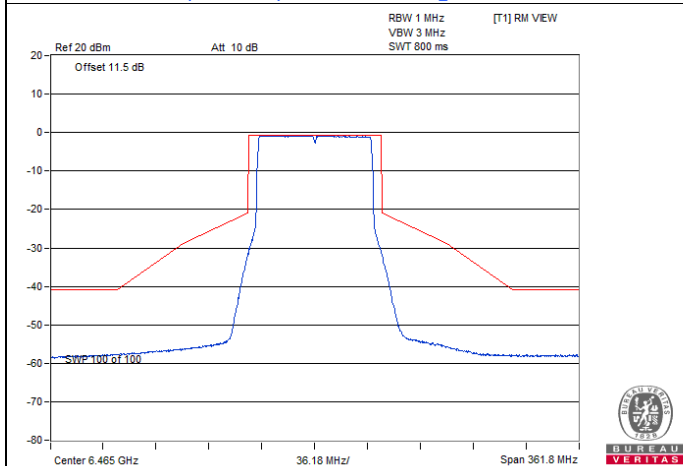
Spectrum Plot



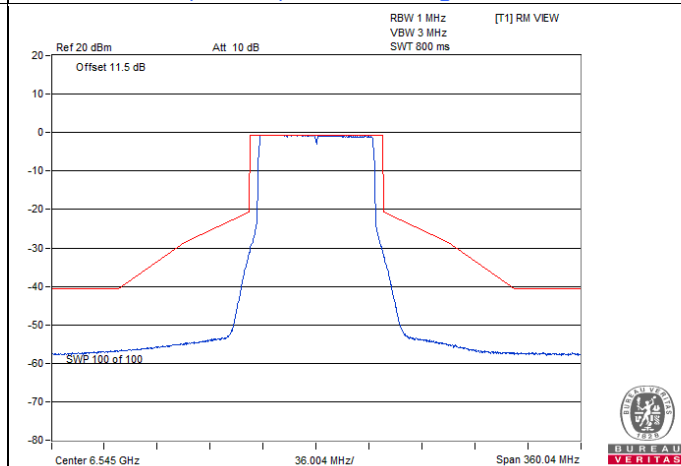
802.11be (EHT80) Beamforming / Chain 1 : CH 55



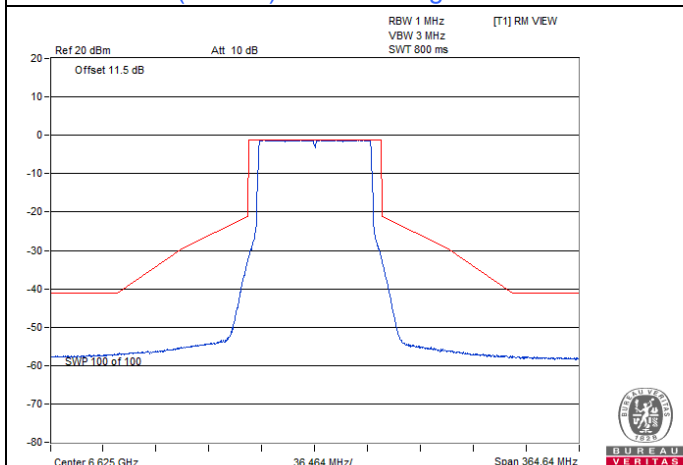
802.11be (EHT80) Beamforming / Chain 1 : CH 87



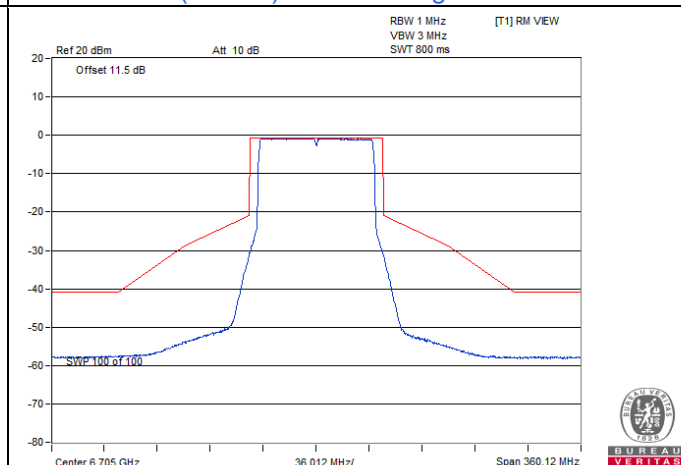
802.11be (EHT80) Beamforming / Chain 1 : CH 103



802.11be (EHT80) Beamforming / Chain 1 : CH 119

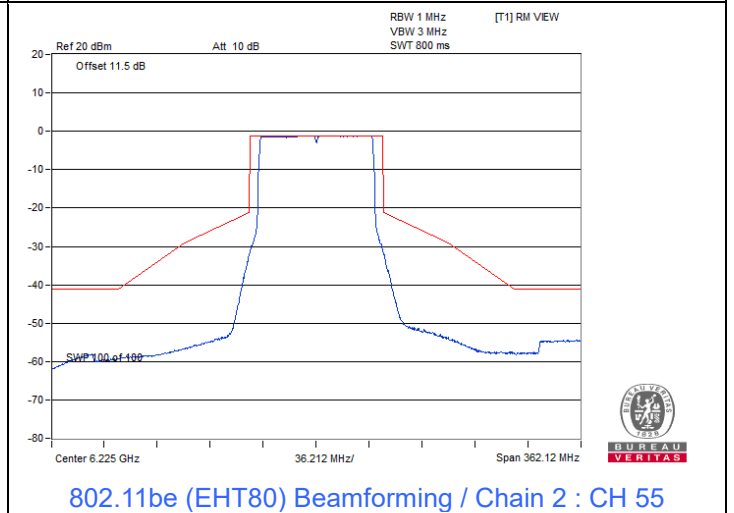
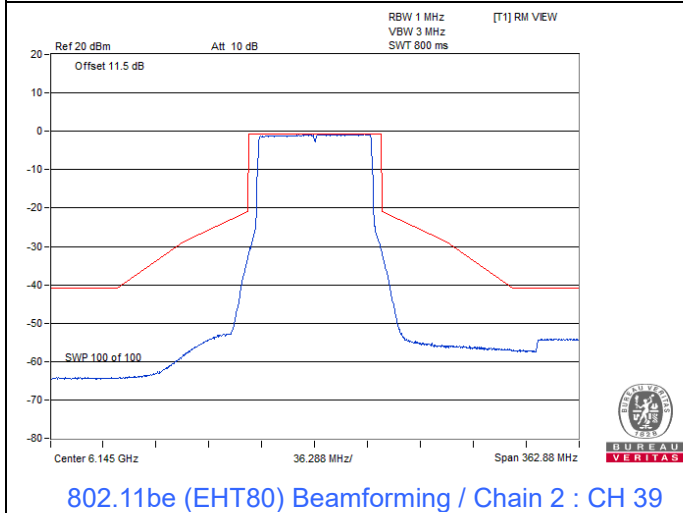
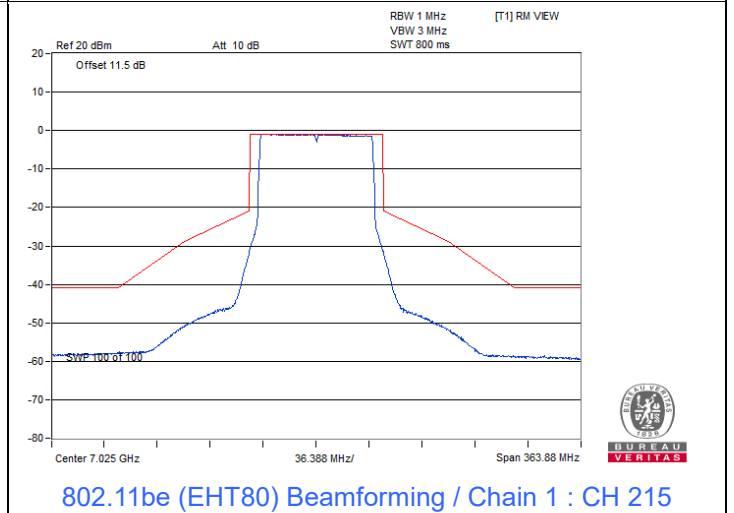
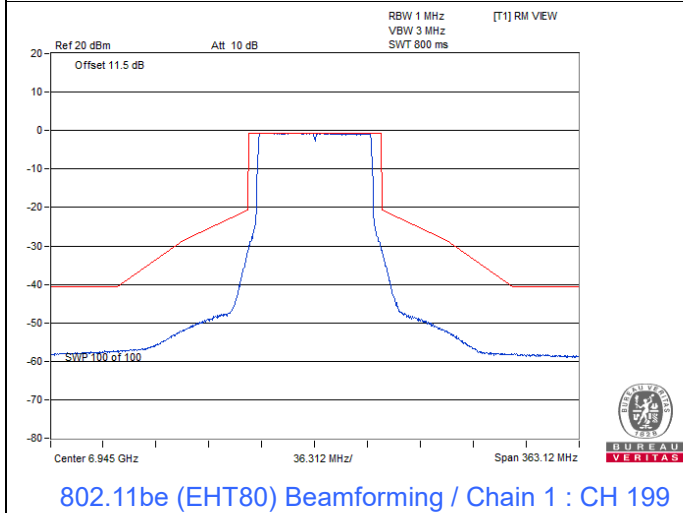
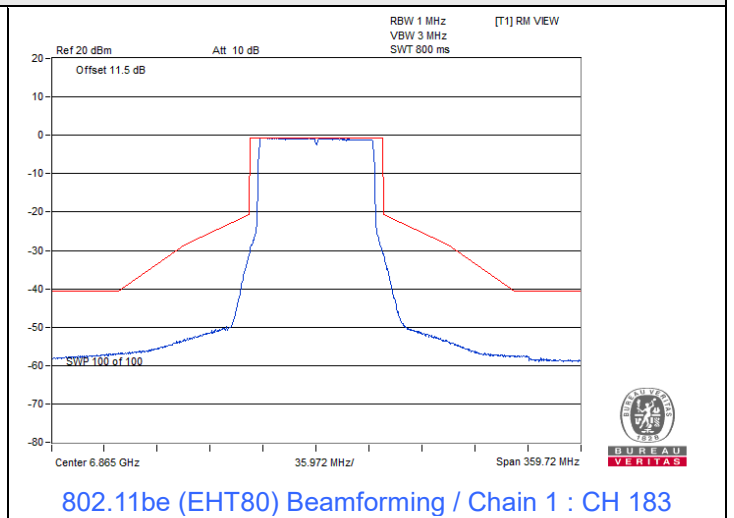
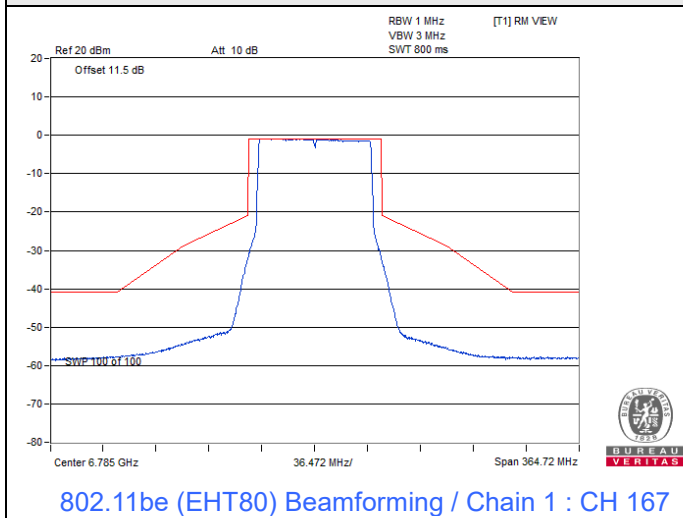


802.11be (EHT80) Beamforming / Chain 1 : CH 135

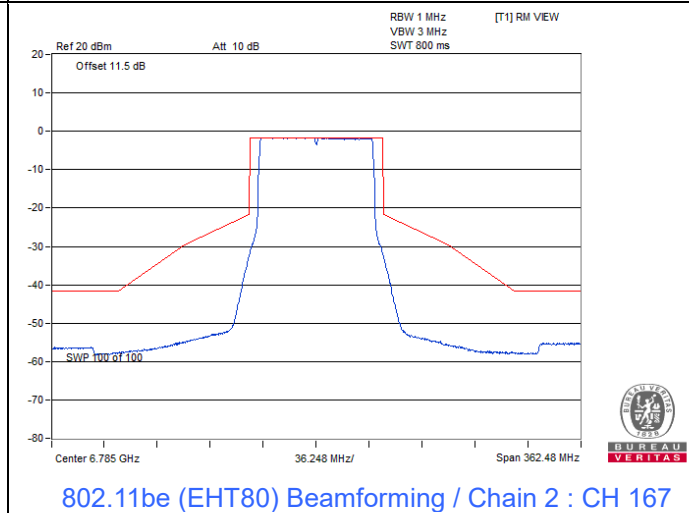
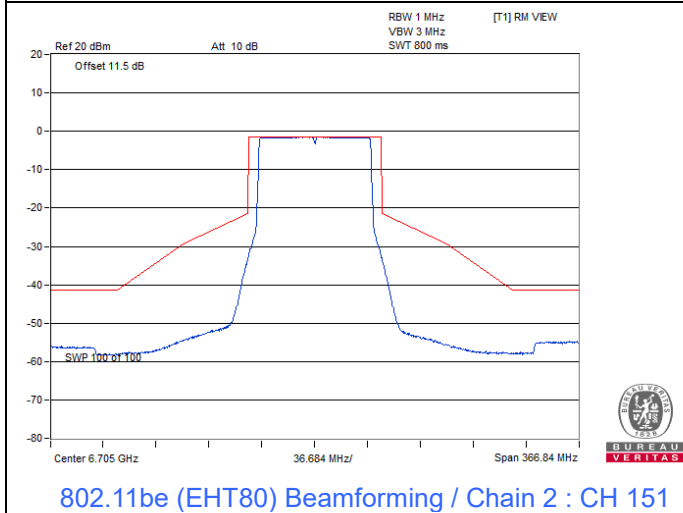
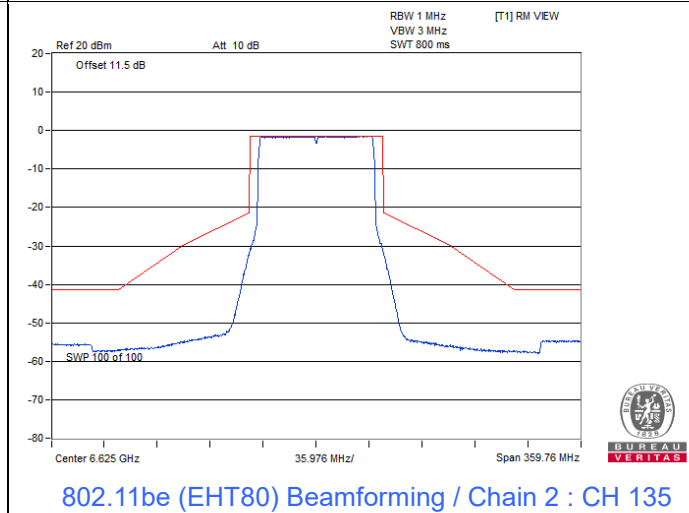
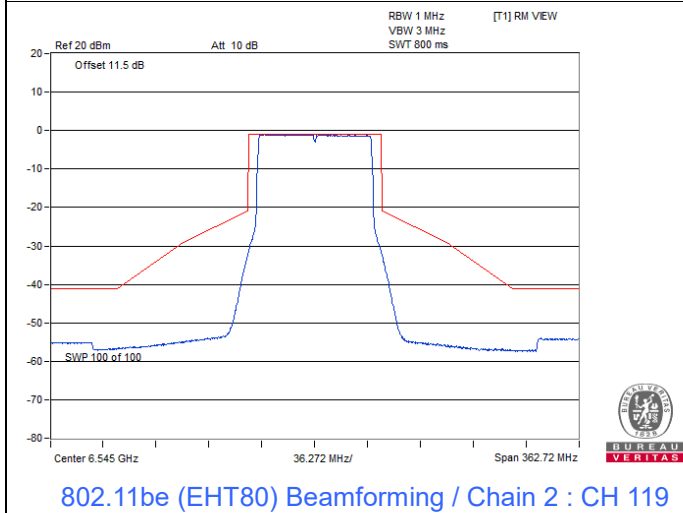
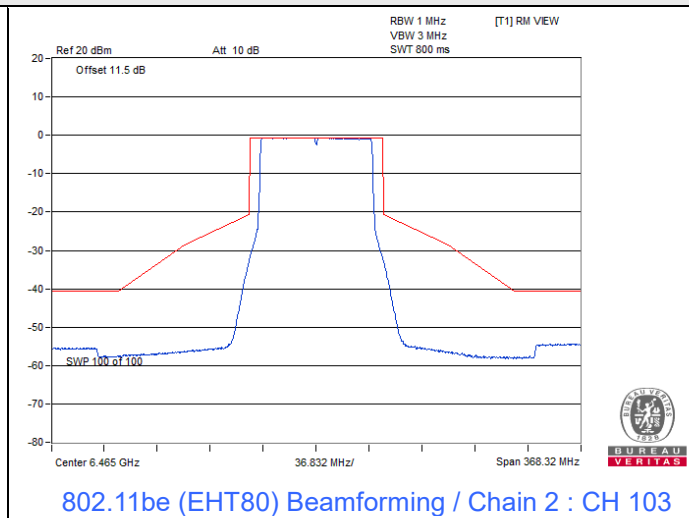
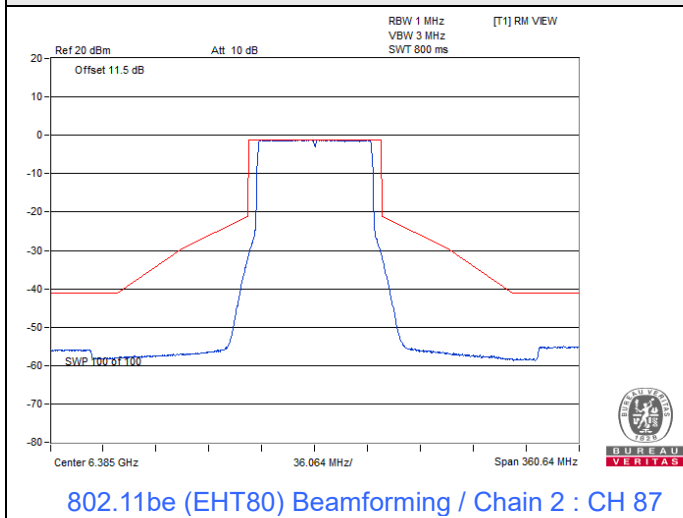


802.11be (EHT80) Beamforming / Chain 1 : CH 151

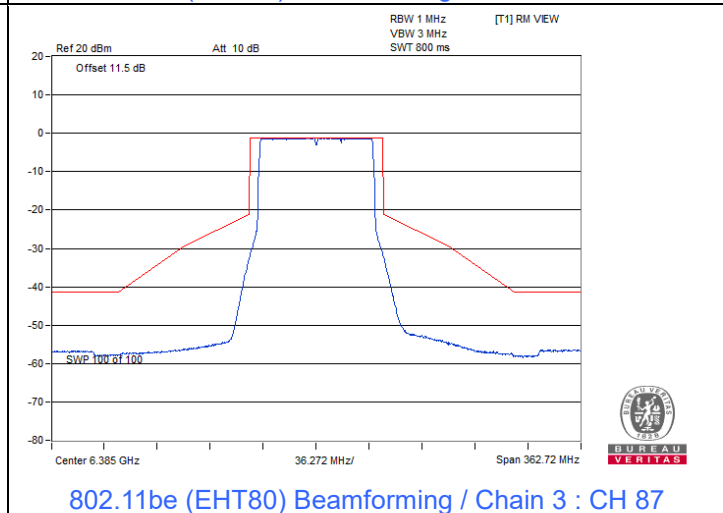
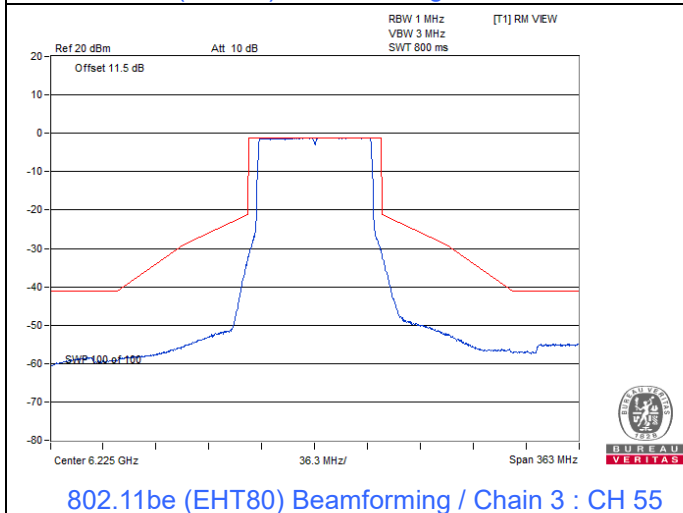
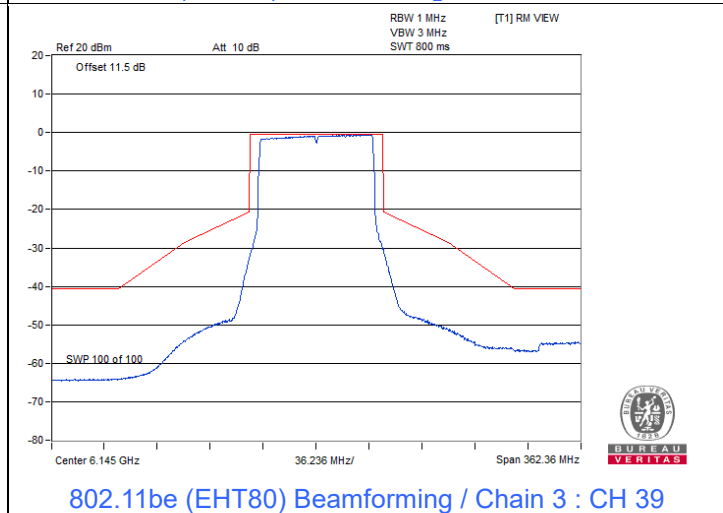
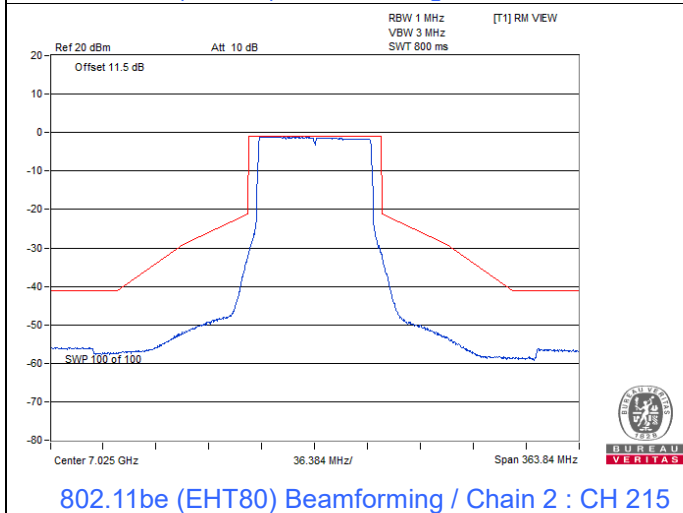
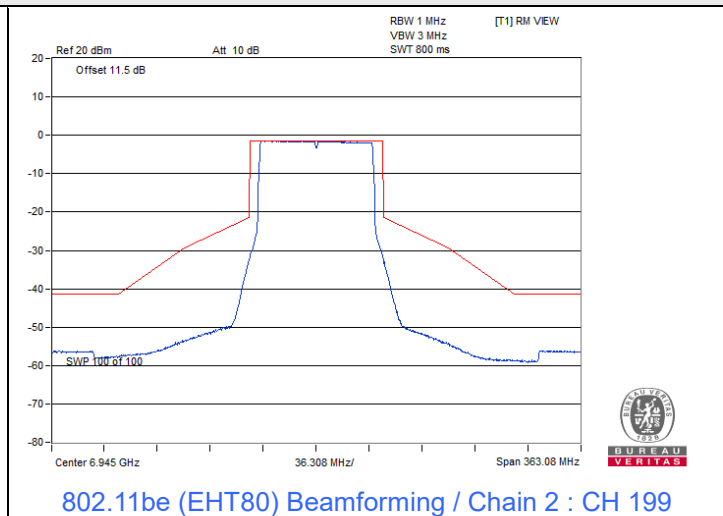
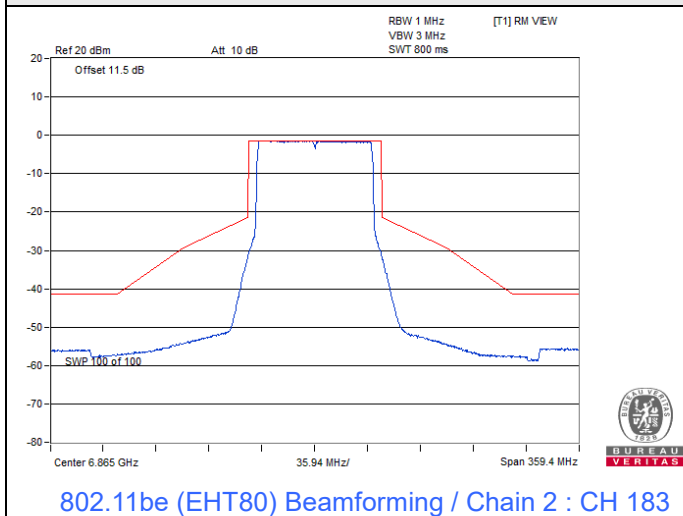
Spectrum Plot



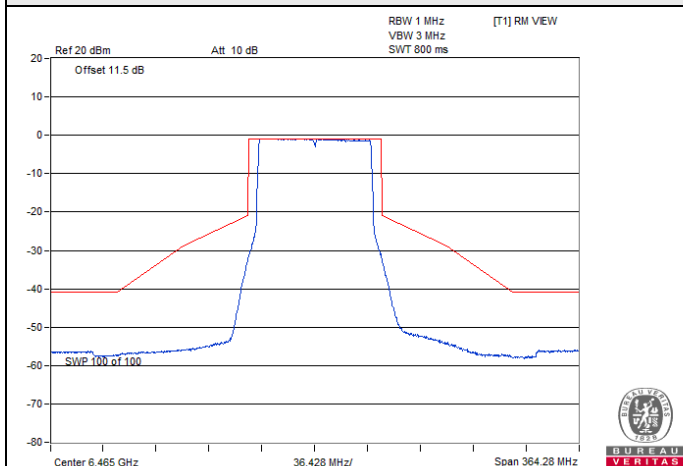
Spectrum Plot



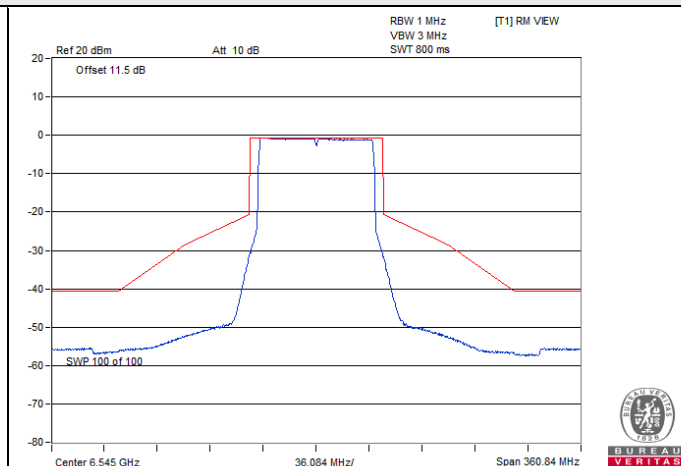
Spectrum Plot



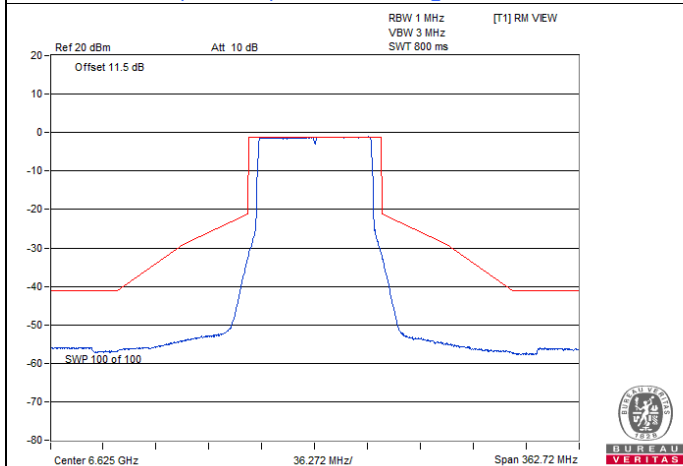
Spectrum Plot



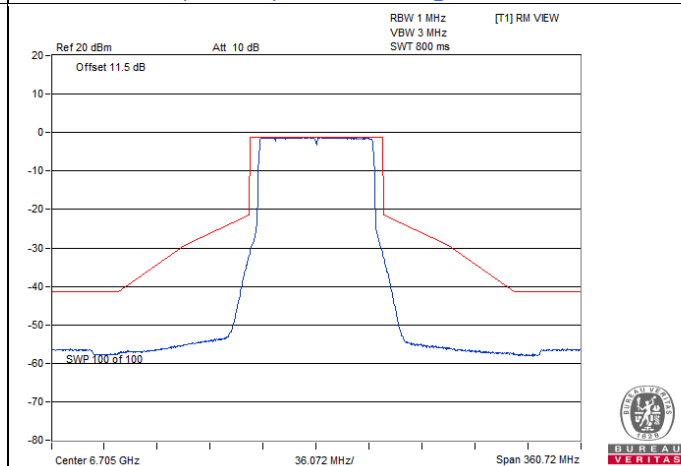
802.11be (EHT80) Beamforming / Chain 3 : CH 103



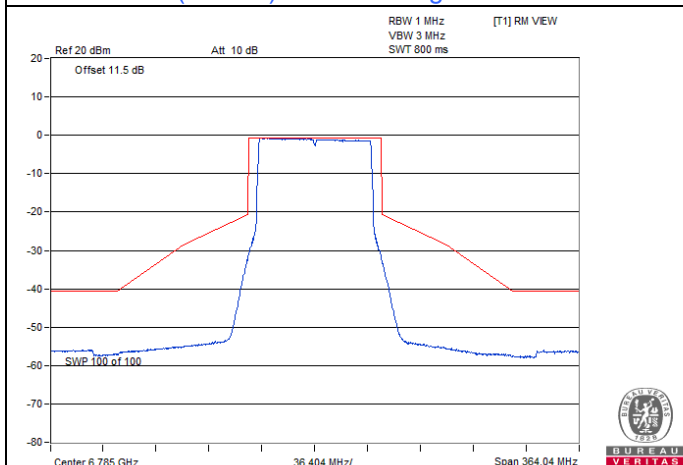
802.11be (EHT80) Beamforming / Chain 3 : CH 119



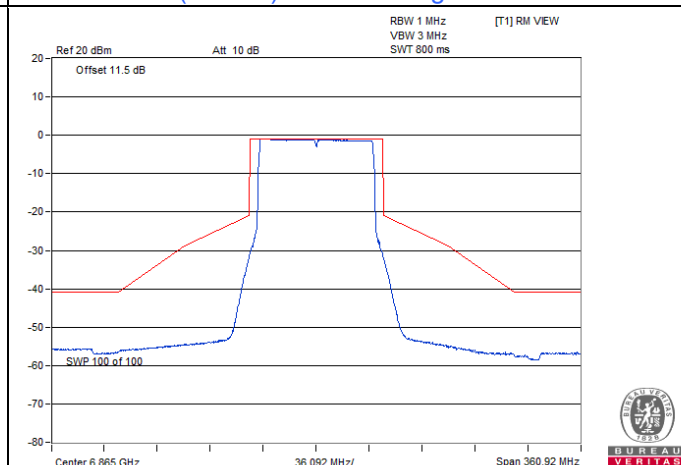
802.11be (EHT80) Beamforming / Chain 3 : CH 135



802.11be (EHT80) Beamforming / Chain 3 : CH 151

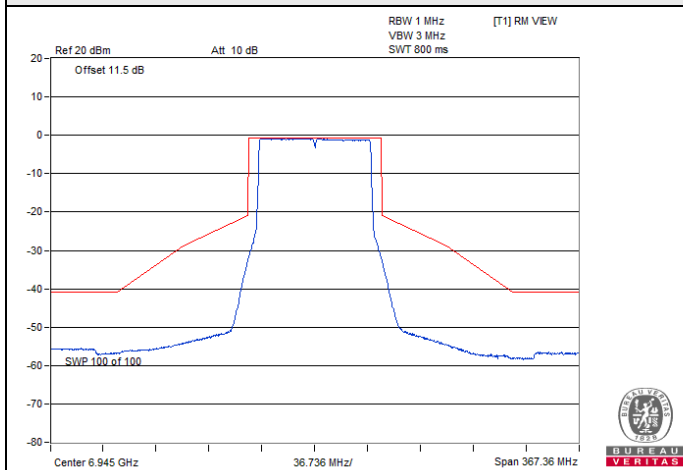


802.11be (EHT80) Beamforming / Chain 3 : CH 167

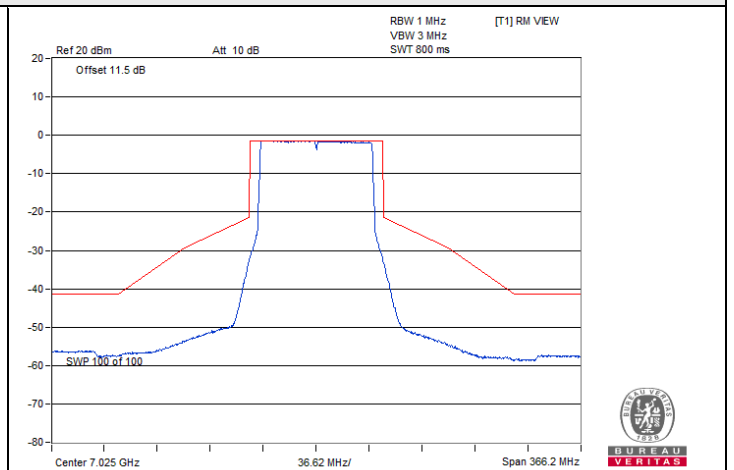


802.11be (EHT80) Beamforming / Chain 3 : CH 183

Spectrum Plot



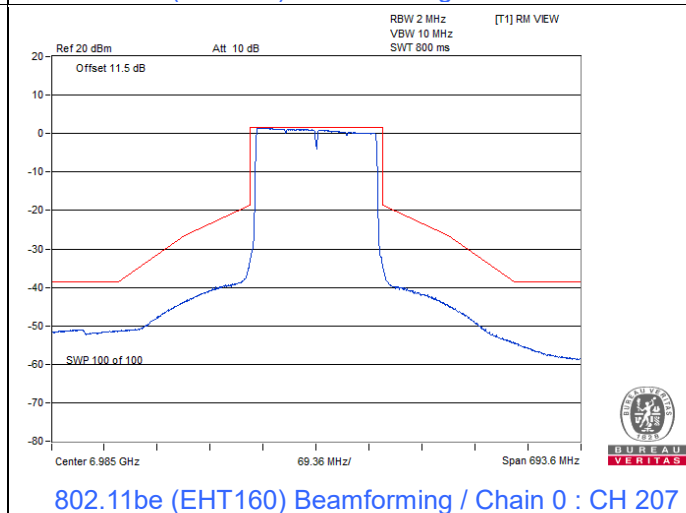
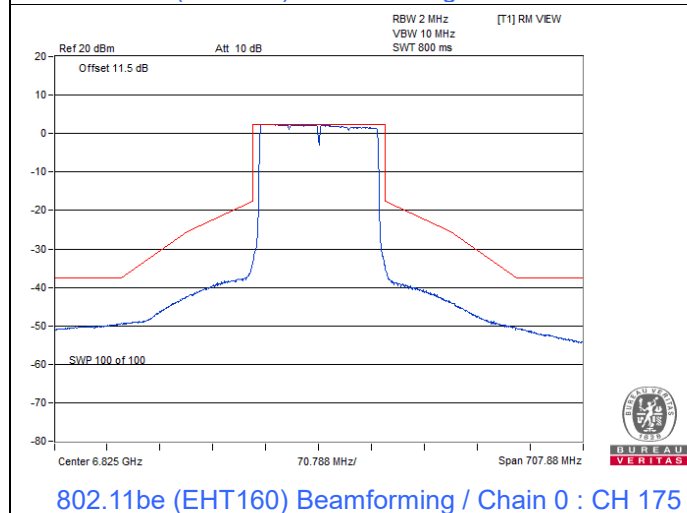
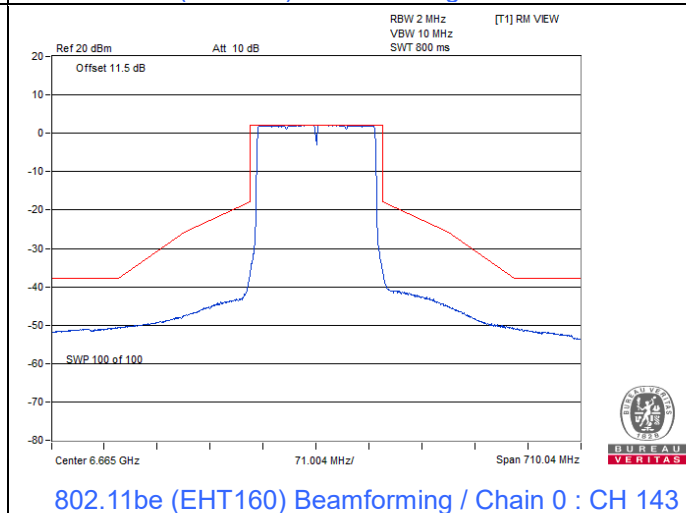
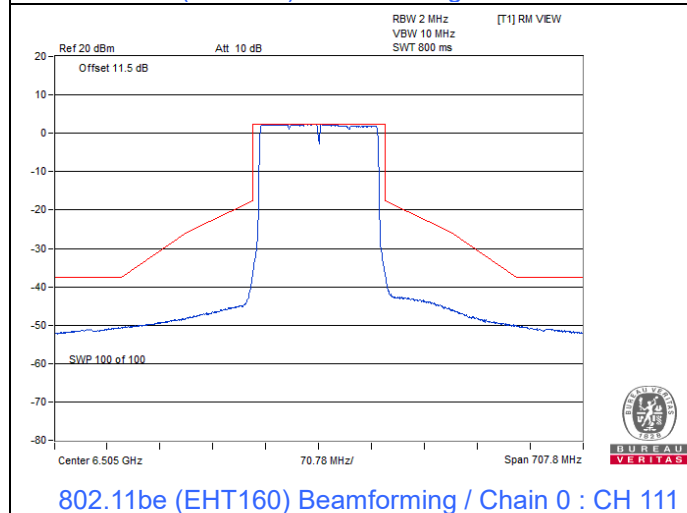
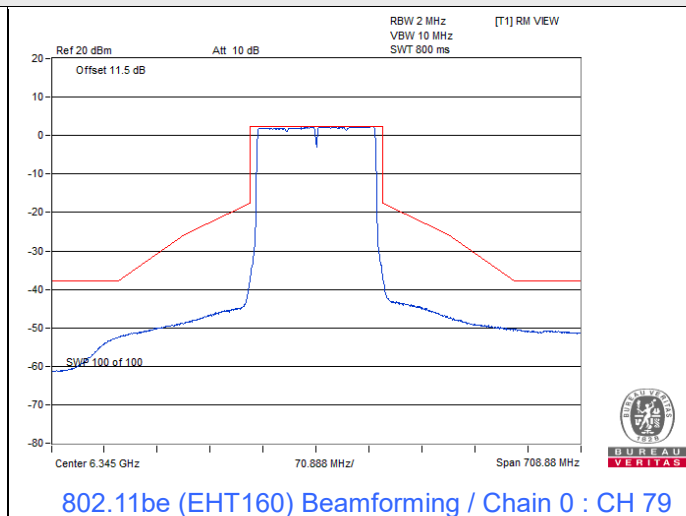
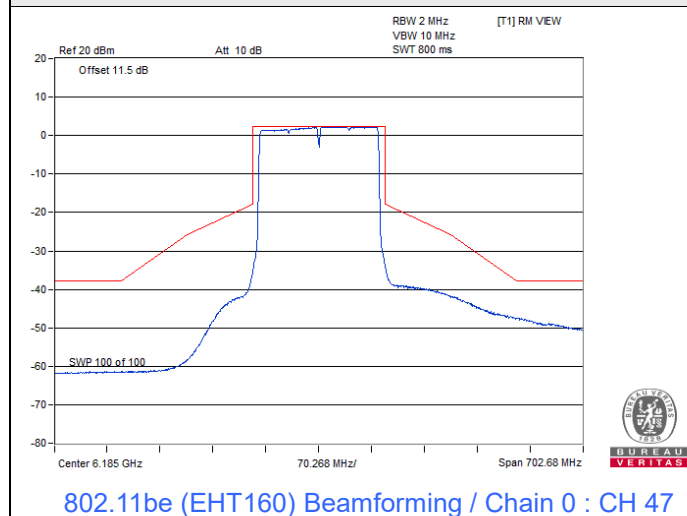
802.11be (EHT80) Beamforming / Chain 3 : CH 199



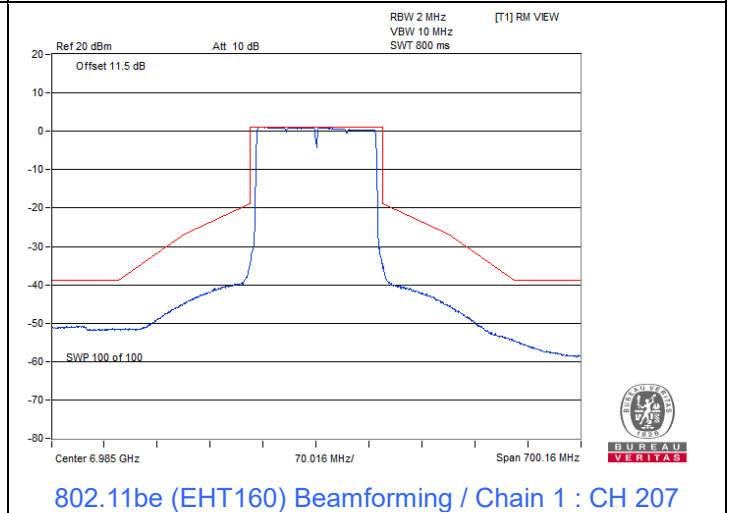
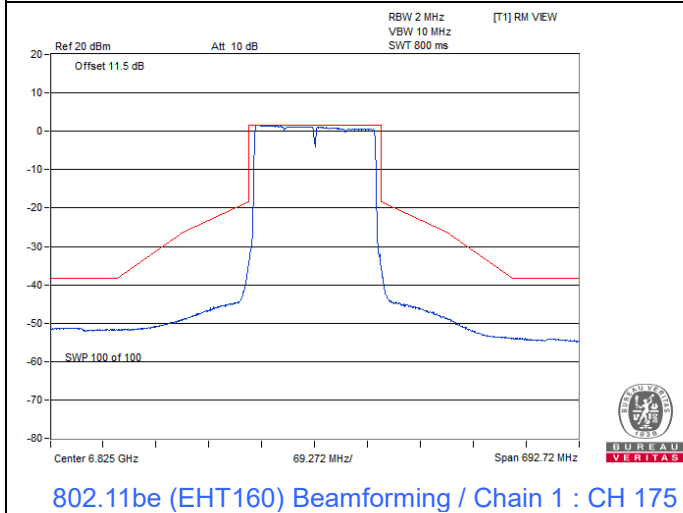
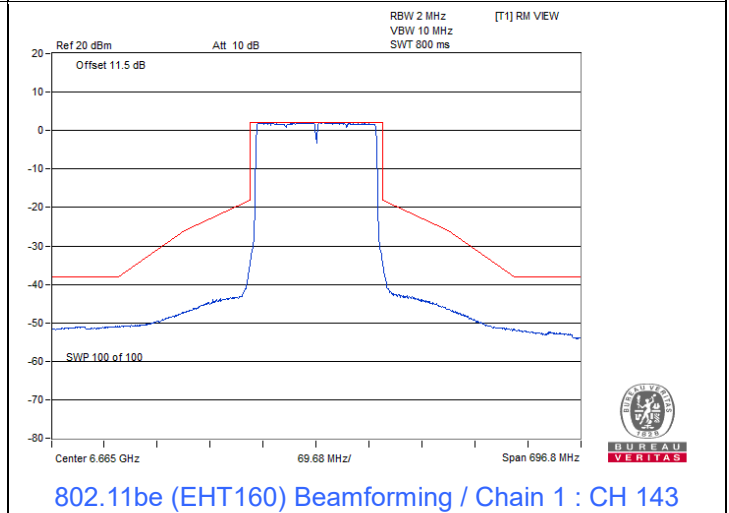
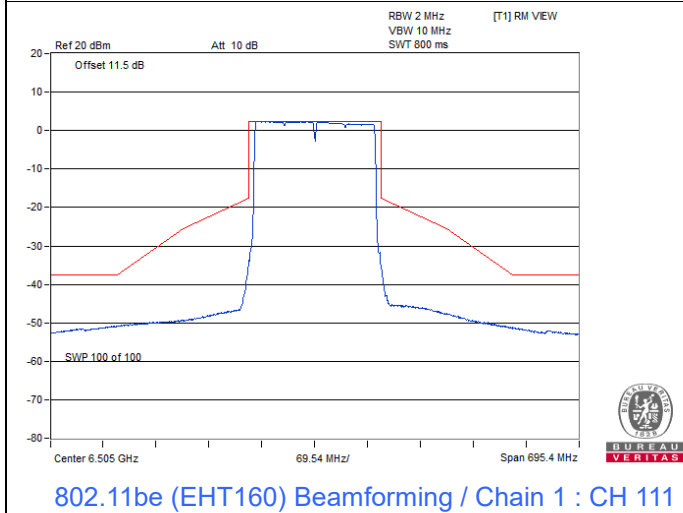
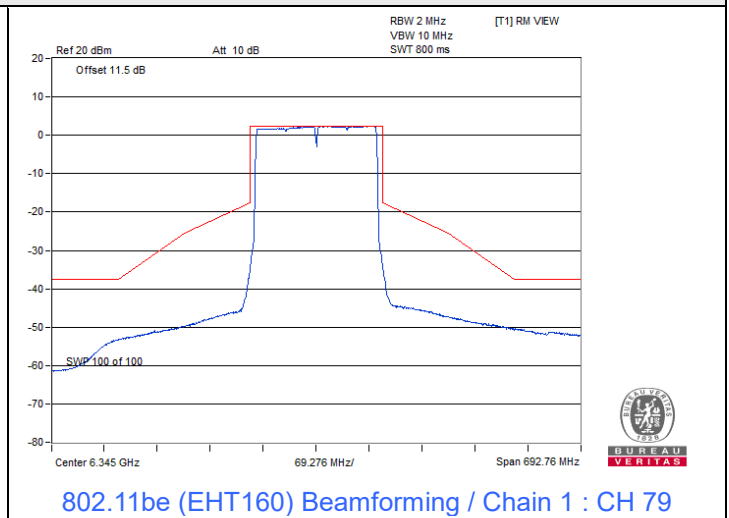
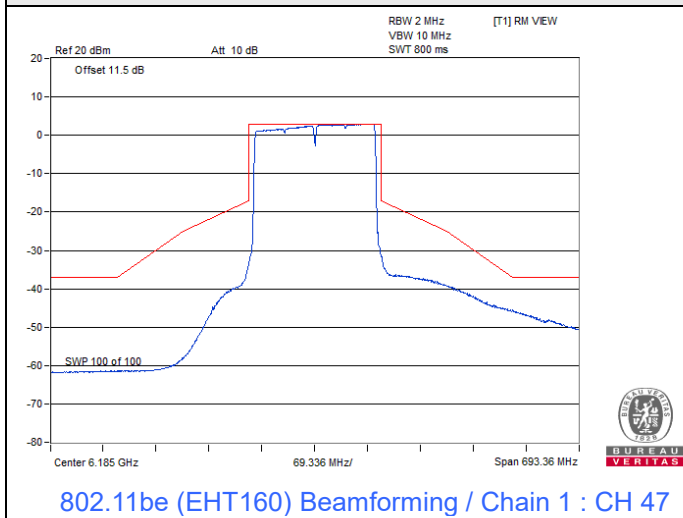
802.11be (EHT80) Beamforming / Chain 3 : CH 215

802.11be (EHT160) Beamforming

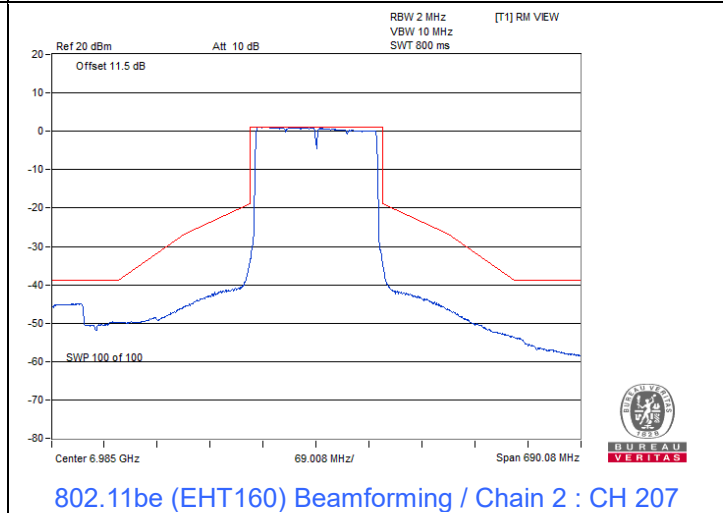
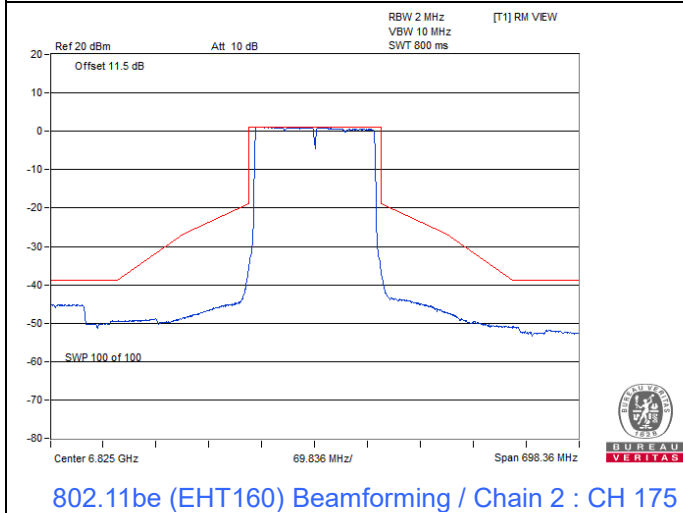
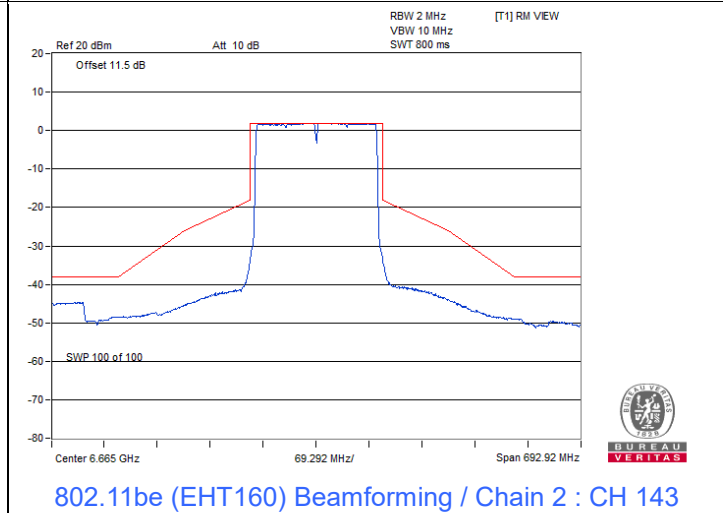
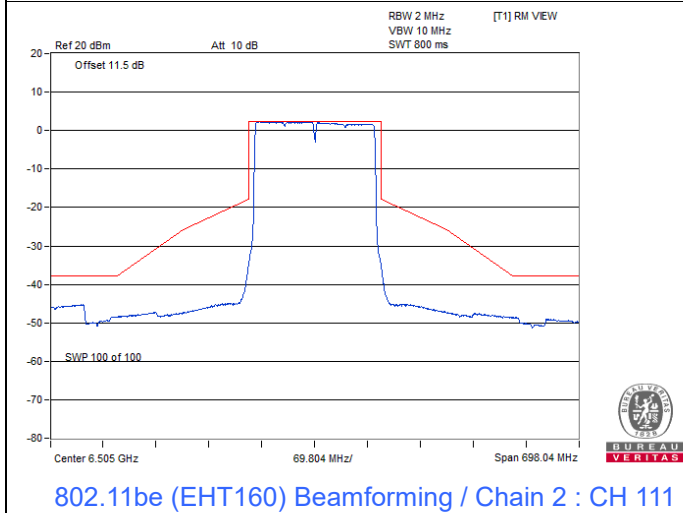
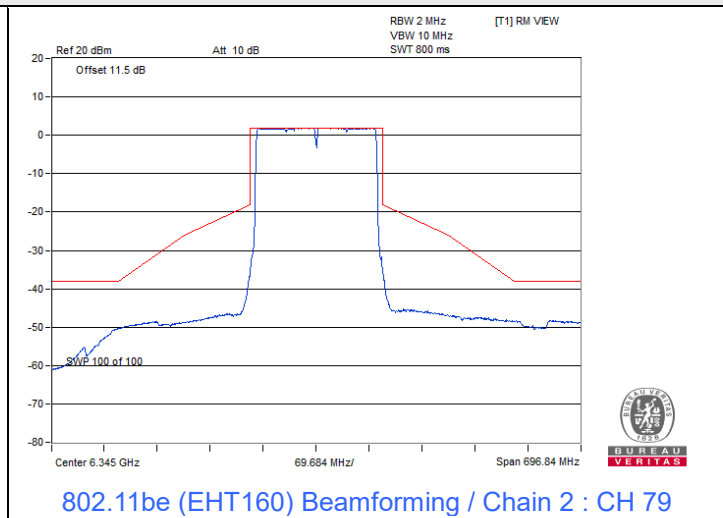
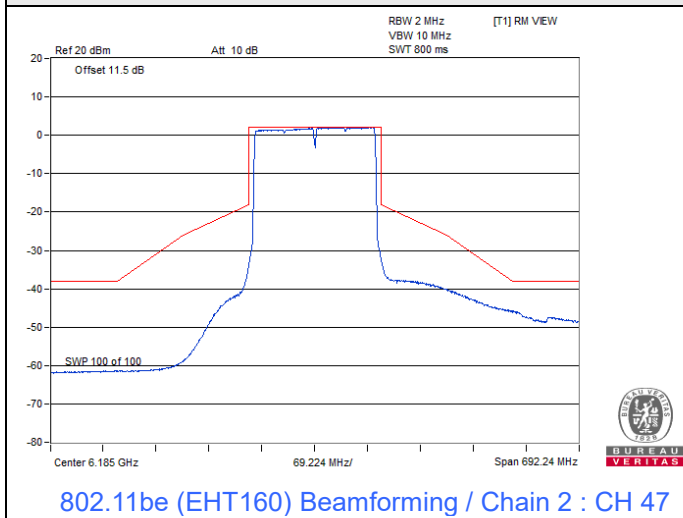
Spectrum Plot



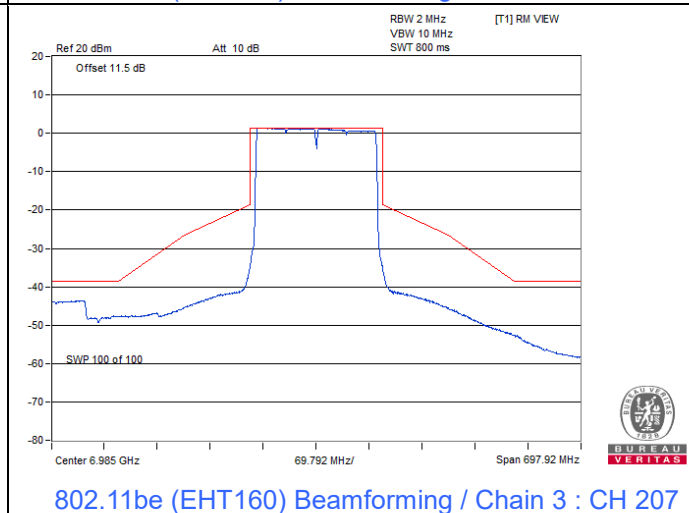
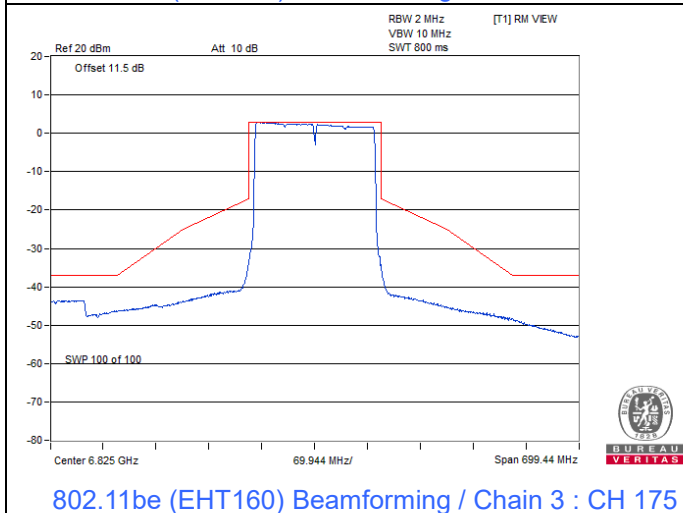
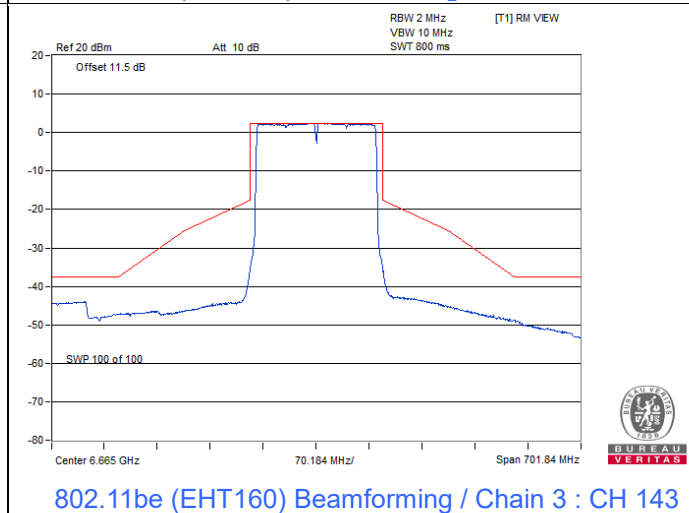
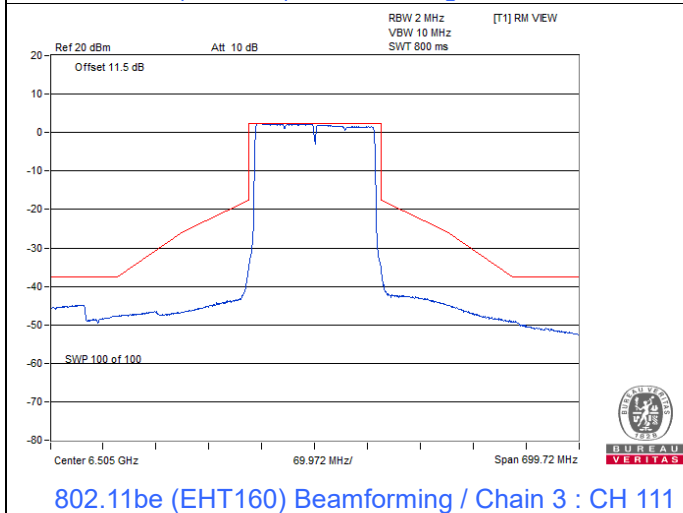
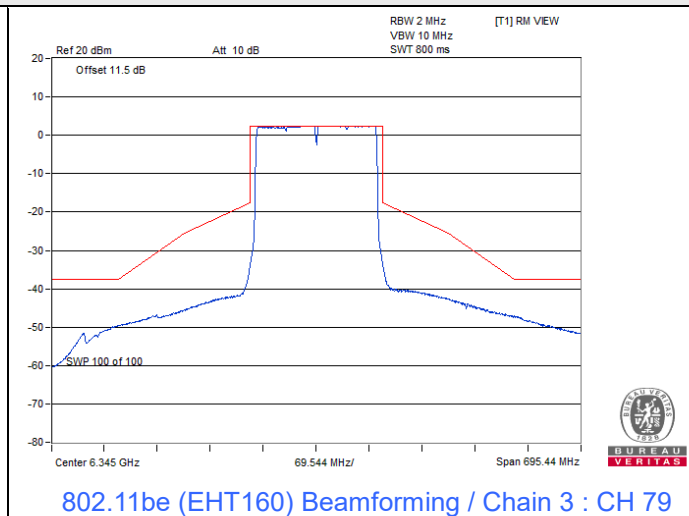
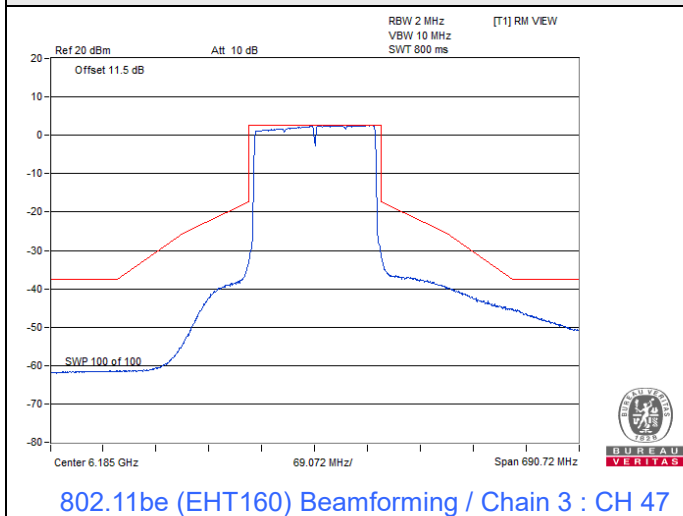
Spectrum Plot



Spectrum Plot

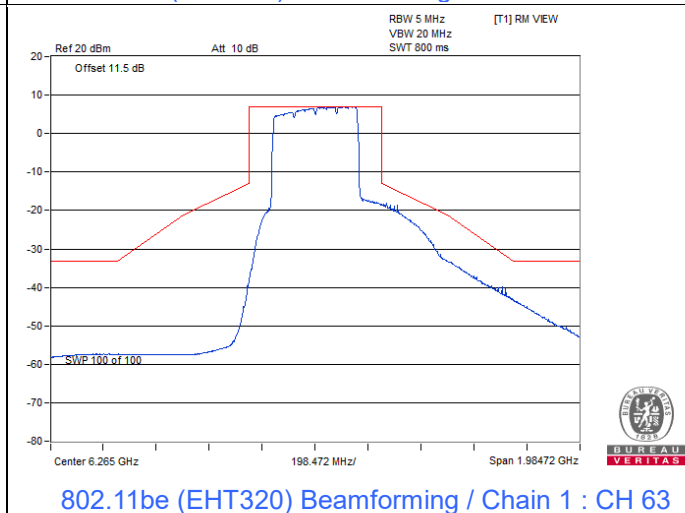
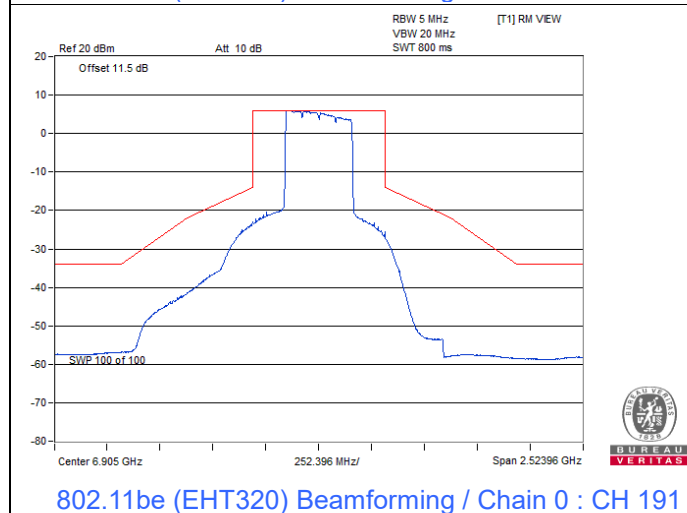
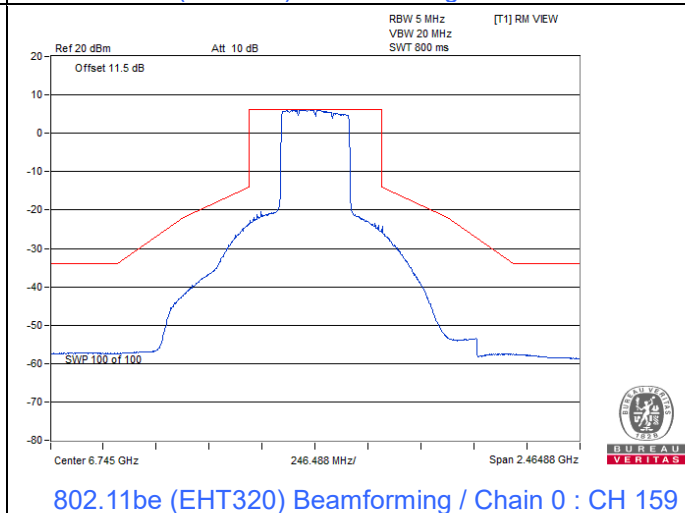
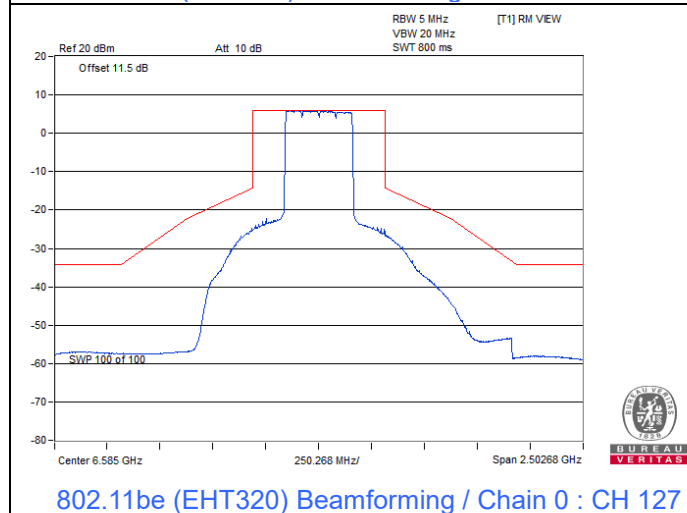
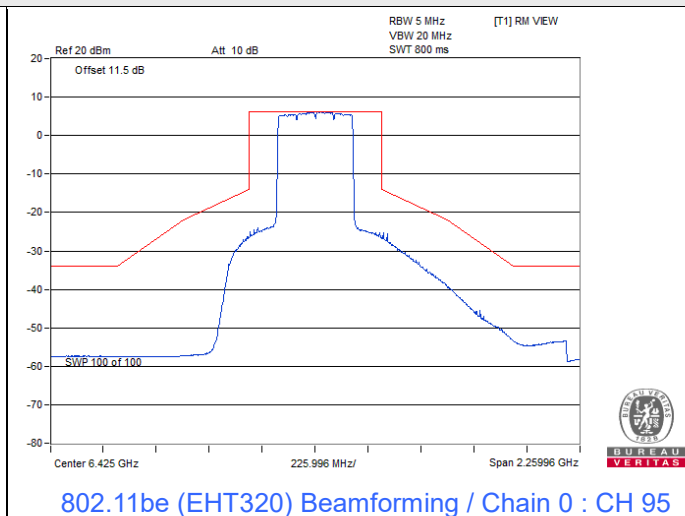
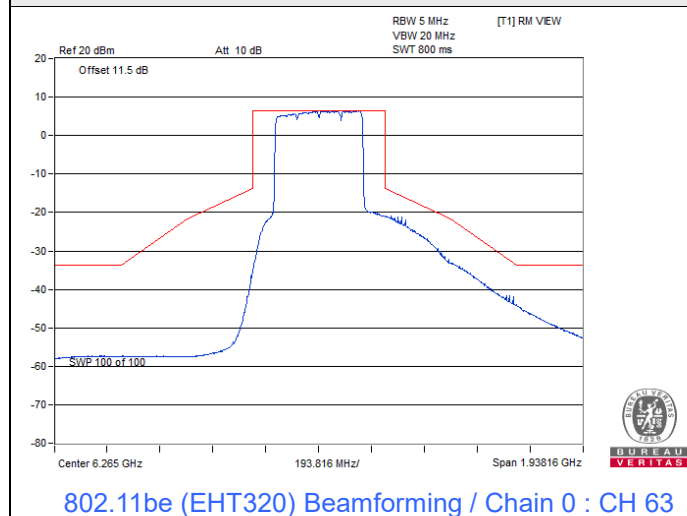


Spectrum Plot

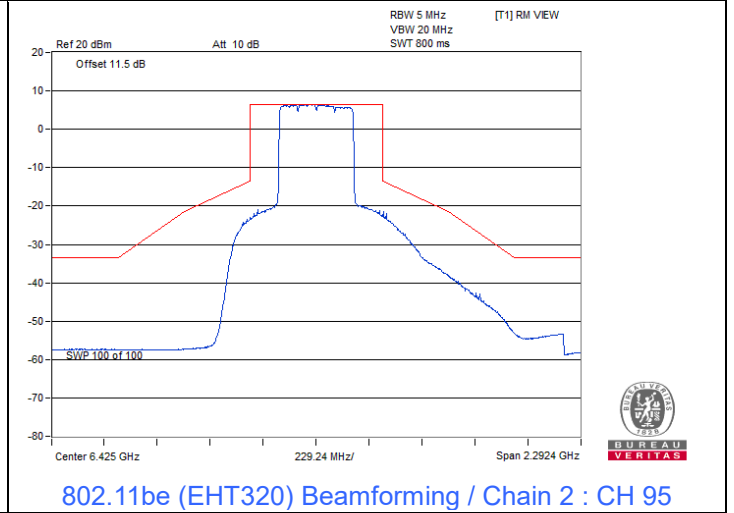
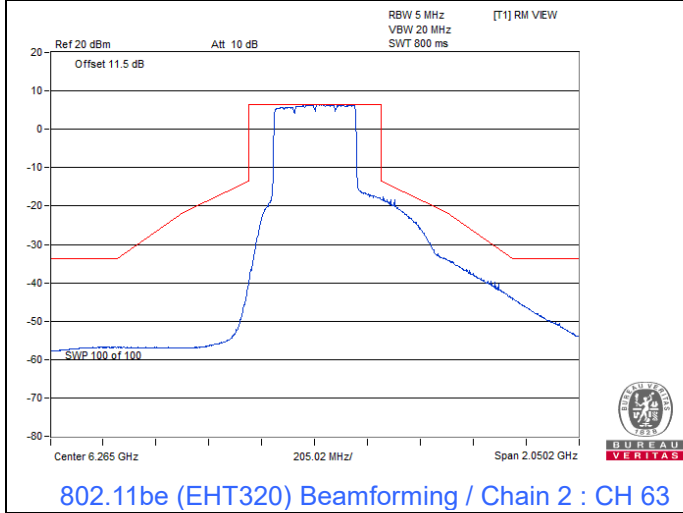
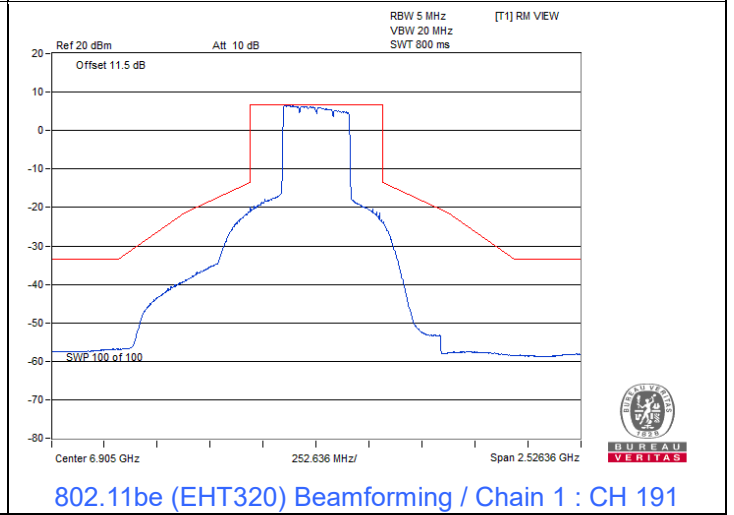
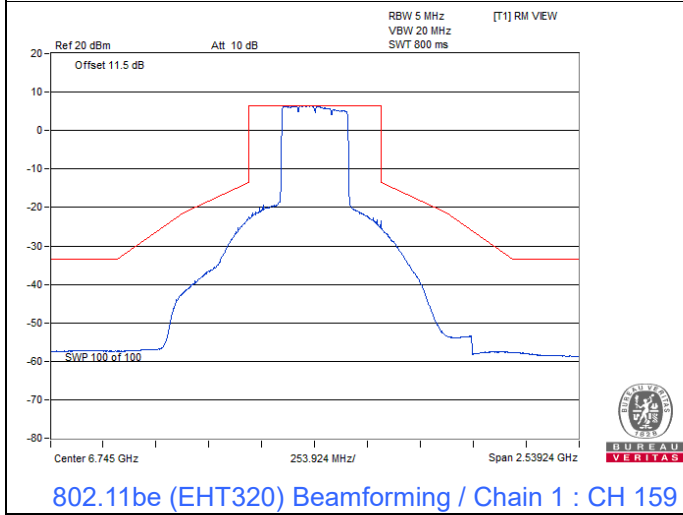
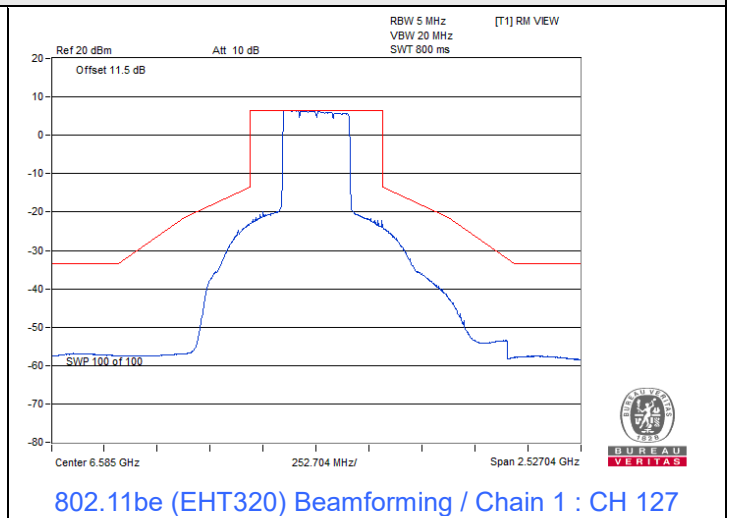
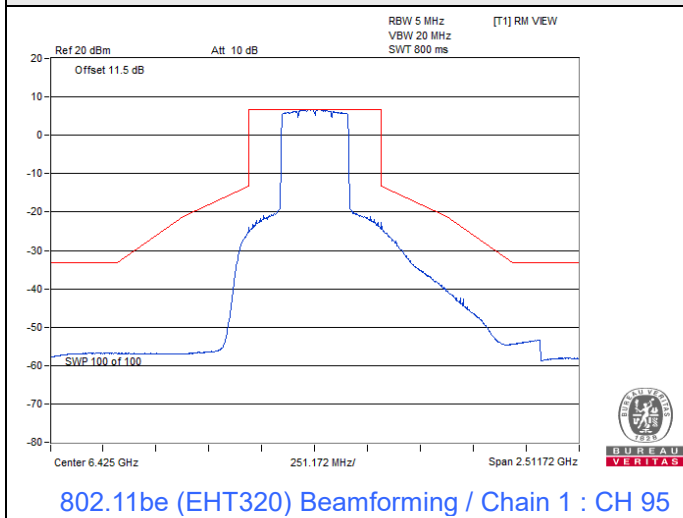


802.11be (EHT320) Beamforming

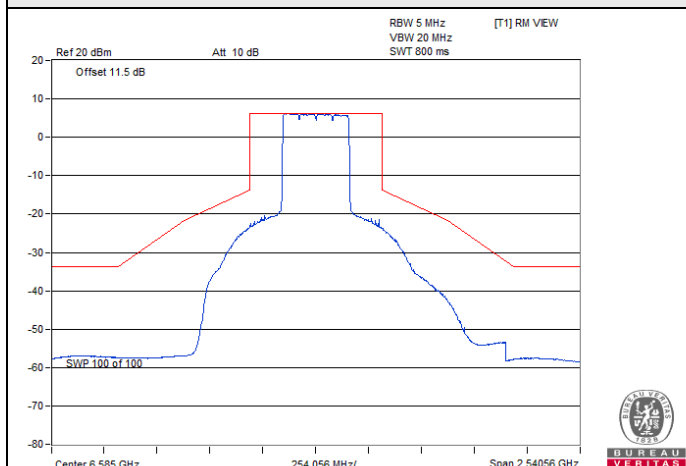
Spectrum Plot



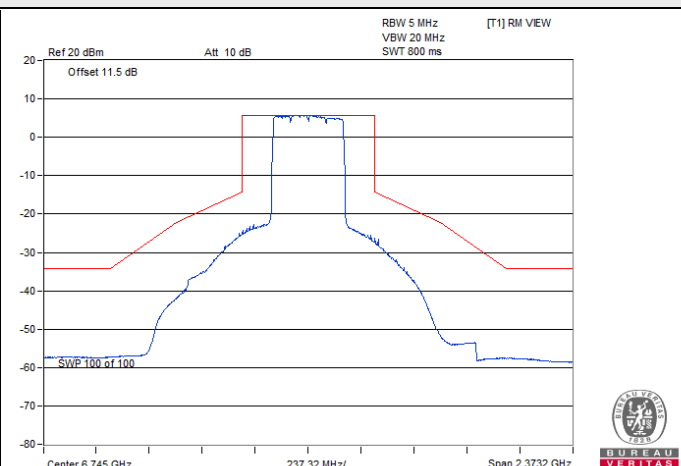
Spectrum Plot



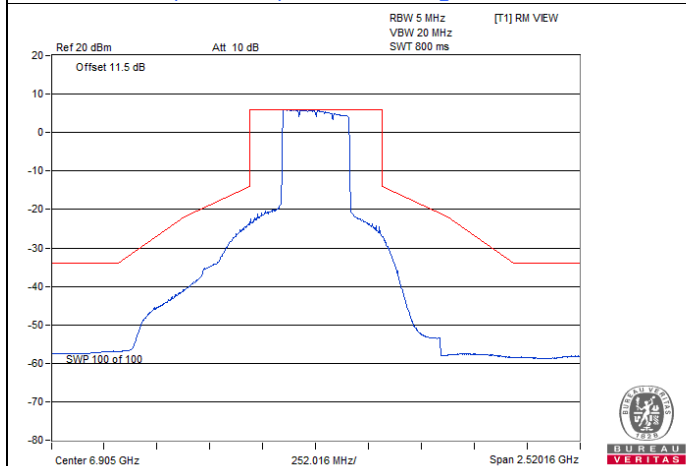
Spectrum Plot



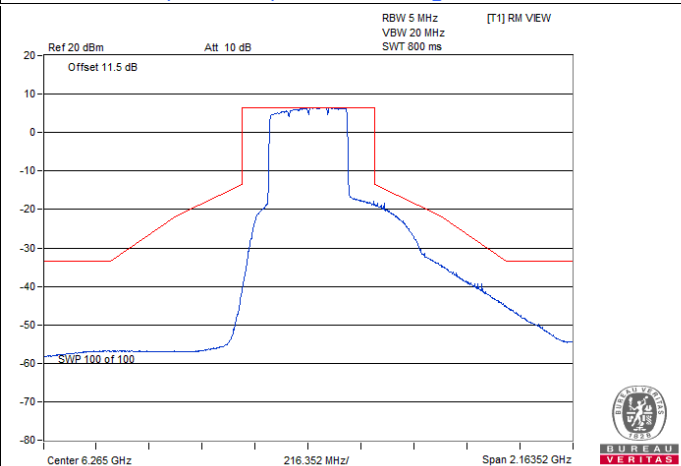
802.11be (EHT320) Beamforming / Chain 2 : CH 127



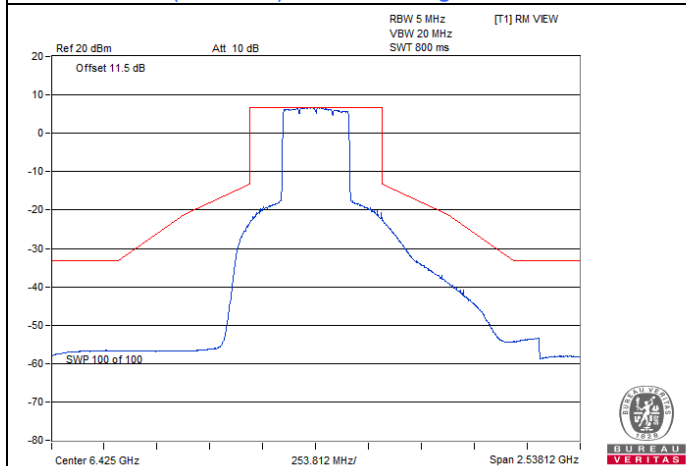
802.11be (EHT320) Beamforming / Chain 2 : CH 159



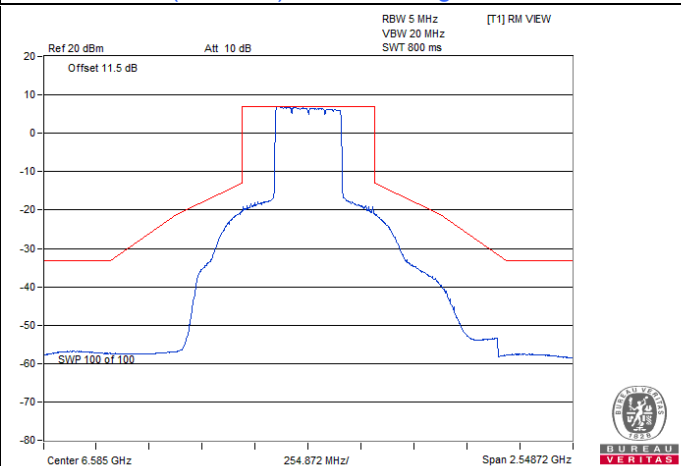
802.11be (EHT320) Beamforming / Chain 2 : CH 191



802.11be (EHT320) Beamforming / Chain 3 : CH 63

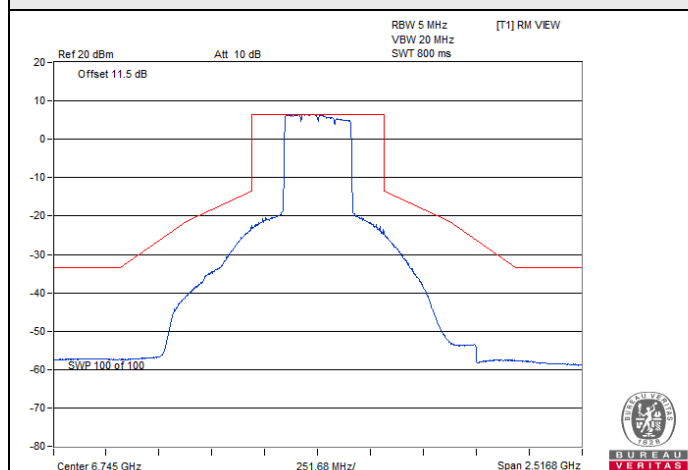


802.11be (EHT320) Beamforming / Chain 3 : CH 95

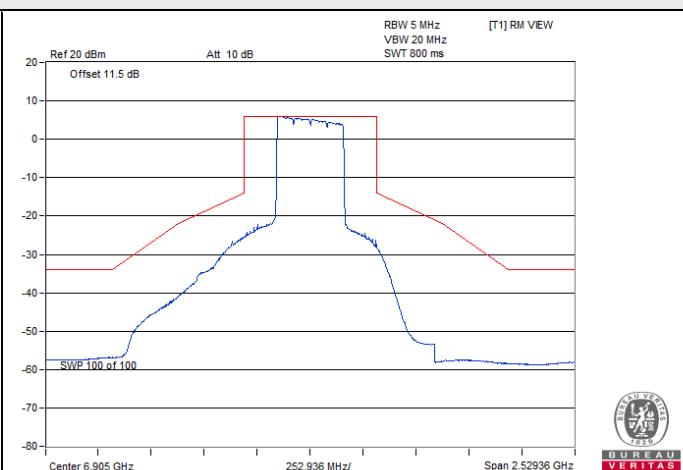


802.11be (EHT320) Beamforming / Chain 3 : CH 127

Spectrum Plot



802.11be (EHT320) Beamforming / Chain 3 : CH 159



802.11be (EHT320) Beamforming / Chain 3 : CH 191

7.5 Occupied Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Gary Lin
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NSS1

802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
33	6115	17.04	16.98	16.98	17.04
61	6255	17.04	16.98	16.98	16.92
93	6415	17.16	17.16	17.04	16.92
97	6435	17.04	16.92	17.04	16.92
105	6475	17.04	17.04	16.92	16.92
113	6515	17.04	17.16	17.04	16.92
117	6535	17.04	17.16	16.92	16.92
149	6695	17.04	17.04	16.92	17.04
181	6855	17.04	16.92	16.92	16.92
185	6875	17.10	16.98	16.98	16.98
209	6995	17.04	16.92	16.92	17.04
229	7095	17.04	17.04	17.04	17.04
233	7115	17.04	16.92	17.04	16.92

802.11be (EHT20) Beamforming

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
33	6115	19.20	19.20	19.20	19.20
61	6255	19.32	19.32	19.20	19.20
93	6415	19.08	19.20	19.20	19.20
97	6435	19.20	19.20	19.20	19.32
105	6475	19.20	19.20	19.08	19.32
113	6515	19.08	19.20	19.20	19.08
117	6535	19.32	19.20	19.08	19.20
149	6695	19.08	19.20	19.08	19.20
181	6855	19.20	19.20	19.08	19.20
185	6875	19.32	19.32	19.20	19.20
209	6995	19.08	19.08	19.20	19.08
229	7095	19.32	19.32	19.08	19.20
233	7115	19.20	19.32	19.32	19.20

802.11be (EHT40) Beamforming

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
35	6125	38.40	38.40	38.52	38.40
59	6245	38.64	38.40	38.64	38.40
91	6405	38.40	38.40	38.64	38.64
99	6445	38.64	38.16	38.64	38.64
107	6485	38.64	38.40	38.64	38.64
115	6525	38.64	38.64	38.64	38.40
123	6565	38.64	38.64	38.64	38.40
155	6725	38.40	38.64	38.64	38.40
179	6845	38.40	38.64	38.64	38.64
187	6885	38.64	38.64	38.88	38.64
211	7005	38.40	38.40	38.64	38.40
227	7085	38.64	38.64	38.64	38.40

802.11be (EHT80) Beamforming

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
39	6145	77.76	77.76	78.00	77.76
55	6225	77.76	78.24	78.24	77.76
87	6385	77.76	77.76	78.24	77.76
103	6465	78.24	77.76	77.76	77.28
119	6545	78.24	78.24	78.24	77.76
135	6625	77.76	77.76	77.76	78.24
151	6705	77.76	78.24	78.24	77.76
167	6785	77.76	78.24	78.24	78.24
183	6865	78.24	78.24	78.24	77.76
199	6945	78.24	78.24	78.24	77.76
215	7025	78.24	77.76	77.76	77.76

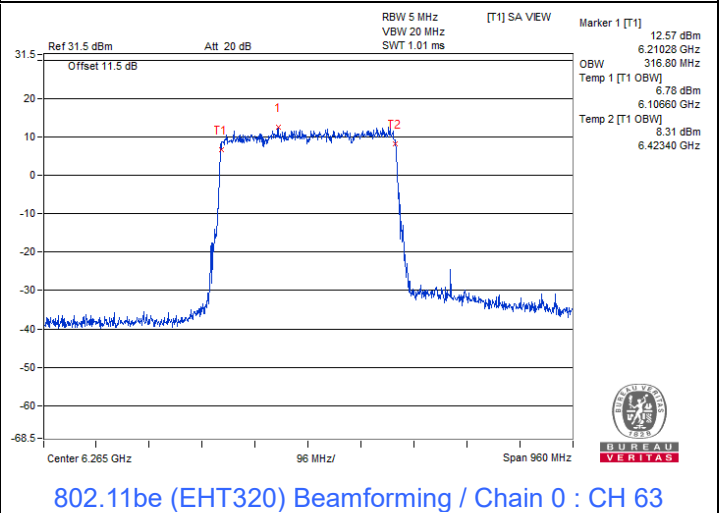
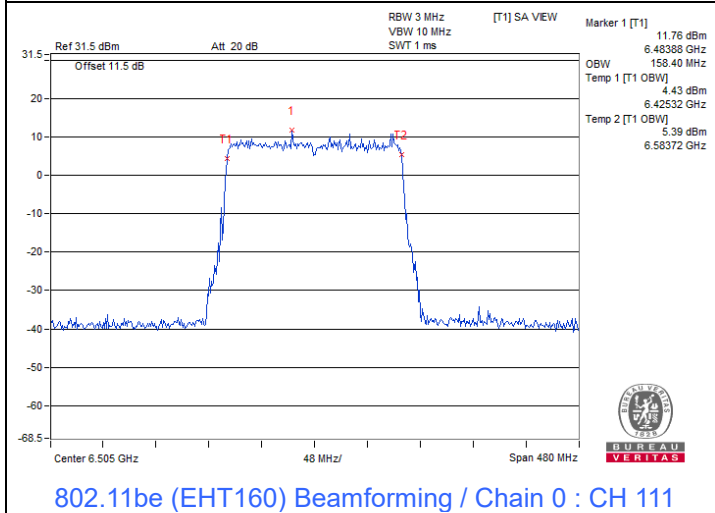
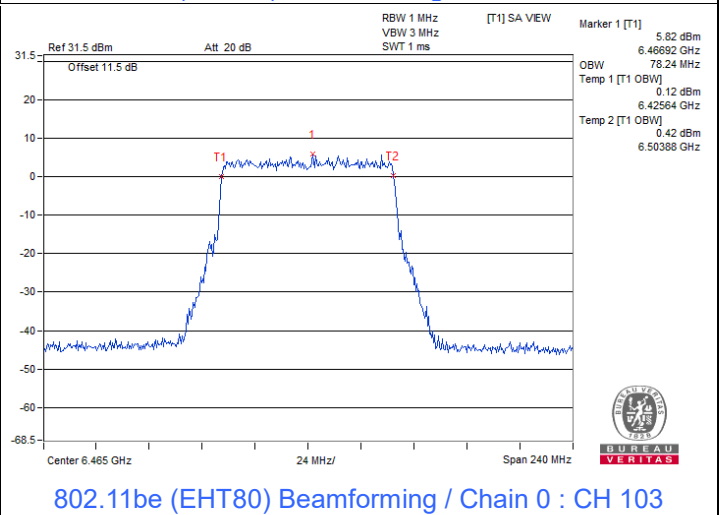
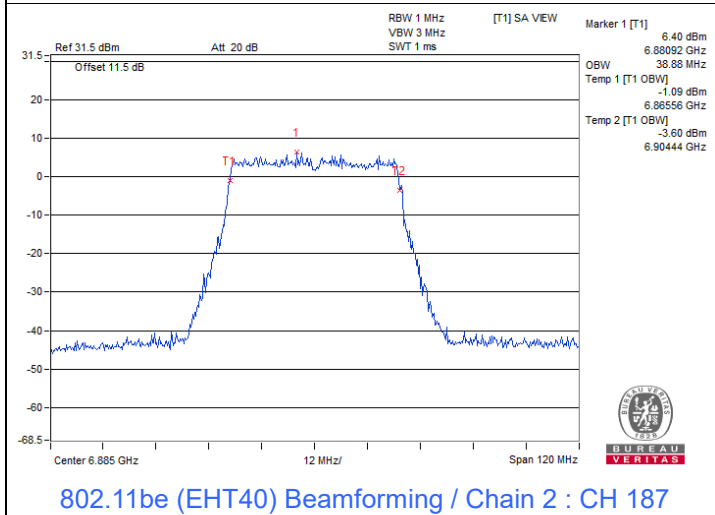
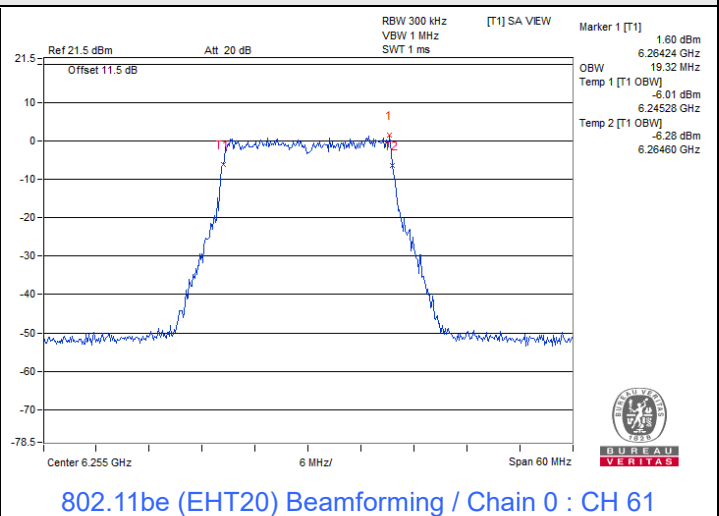
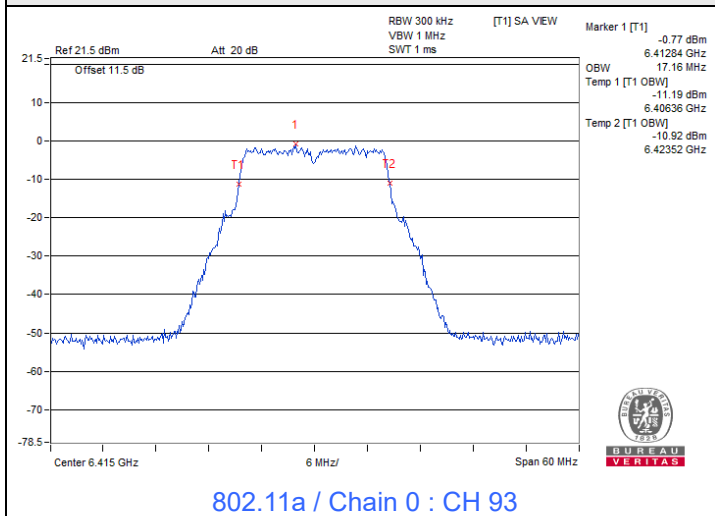
802.11be (EHT160) Beamforming

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
47	6185	157.44	157.92	157.44	156.96
79	6345	157.44	158.40	157.44	158.40
111	6505	158.40	158.40	157.44	157.44
143	6665	158.40	157.44	158.40	157.44
175	6825	158.40	157.92	157.44	157.44
207	6985	158.40	157.44	158.40	157.44

802.11be (EHT320) Beamforming

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
63	6265	316.80	315.84	316.80	315.84
95	6425	316.80	316.80	316.80	316.80
127	6585	316.80	316.80	316.80	316.80
159	6745	316.80	316.80	316.80	316.80
191	6905	316.80	316.80	316.80	316.80

Spectrum Plot of Maximum Value



NSS4

802.11be (EHT20) Beamforming

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
33	6115	19.20	19.20	19.14	19.20
61	6255	19.20	19.32	19.20	19.08
93	6415	19.20	19.20	19.20	19.20
97	6435	19.32	19.20	19.08	19.20
105	6475	19.20	19.20	19.20	19.20
113	6515	19.20	19.20	19.20	19.20
117	6535	19.20	19.20	19.32	19.20
149	6695	19.20	19.20	19.20	19.20
181	6855	19.20	19.20	19.32	19.20
185	6875	19.20	19.32	19.32	19.08
209	6995	19.32	19.20	19.20	19.32
229	7095	19.20	19.32	19.08	19.20
233	7115	19.20	19.32	19.20	19.32

802.11be (EHT40) Beamforming

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
35	6125	38.40	38.40	38.40	38.40
59	6245	38.40	38.40	38.40	38.40
91	6405	38.40	38.64	38.40	38.40
99	6445	38.64	38.40	38.64	38.40
107	6485	38.64	38.64	38.40	38.40
115	6525	38.64	38.64	38.64	38.64
123	6565	38.40	38.64	38.40	38.64
155	6725	38.40	38.64	38.64	38.64
179	6845	38.64	38.64	38.64	38.64
187	6885	38.88	38.64	38.64	38.40
211	7005	38.64	38.40	38.40	38.40
227	7085	38.64	38.64	38.64	38.40

802.11be (EHT80) Beamforming

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
39	6145	77.76	78.24	77.76	77.76
55	6225	77.76	77.76	77.76	78.24
87	6385	78.24	78.24	78.24	78.24
103	6465	77.76	78.24	78.24	78.24
119	6545	77.76	78.24	78.24	78.24
135	6625	78.24	78.24	77.76	77.76
151	6705	78.24	78.24	78.24	78.24
167	6785	77.76	78.24	78.24	78.24
183	6865	78.24	78.24	78.24	78.24
199	6945	78.24	77.28	77.76	77.76
215	7025	77.76	77.28	77.76	78.24

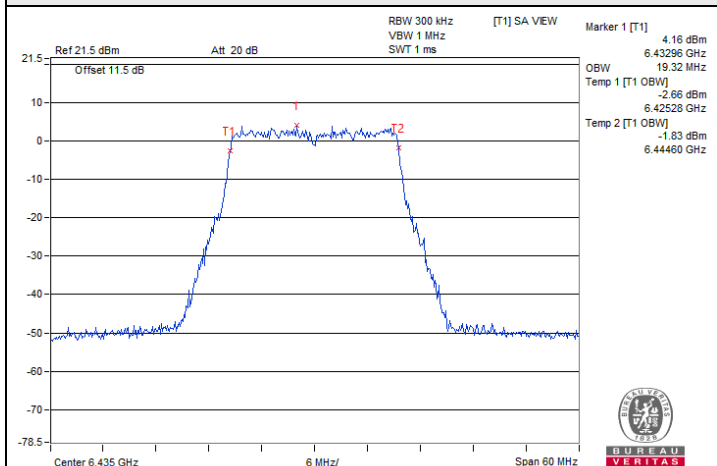
802.11be (EHT160) Beamforming

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
47	6185	157.44	157.44	157.44	157.44
79	6345	158.40	158.40	158.40	157.44
111	6505	157.44	158.40	158.40	158.40
143	6665	158.40	158.40	157.44	158.40
175	6825	158.40	157.44	158.40	158.40
207	6985	158.40	158.40	157.44	158.40

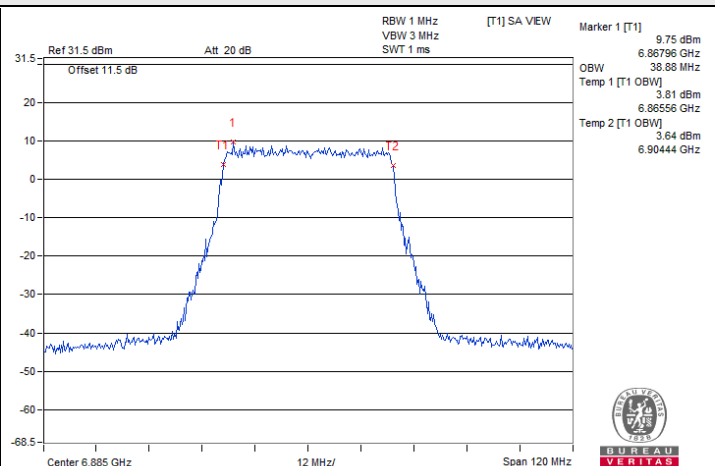
802.11be (EHT320) Beamforming

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
63	6265	316.80	318.72	318.72	318.72
95	6425	316.80	316.80	318.72	316.80
127	6585	316.80	316.80	318.72	318.72
159	6745	316.80	318.72	316.80	316.80
191	6905	318.72	318.72	316.80	316.80

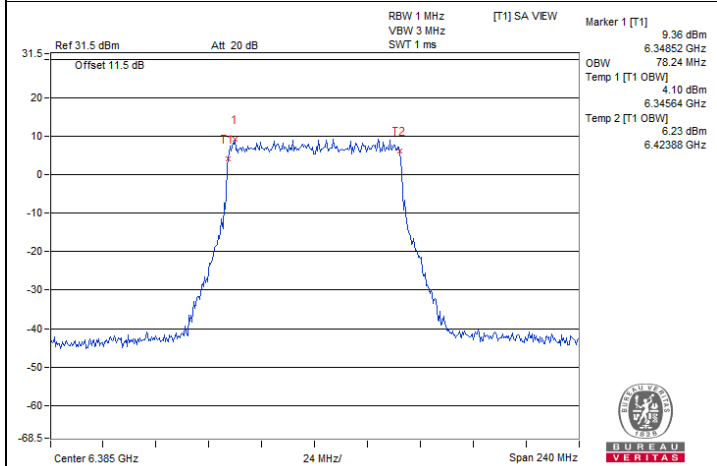
Spectrum Plot of Maximum Value



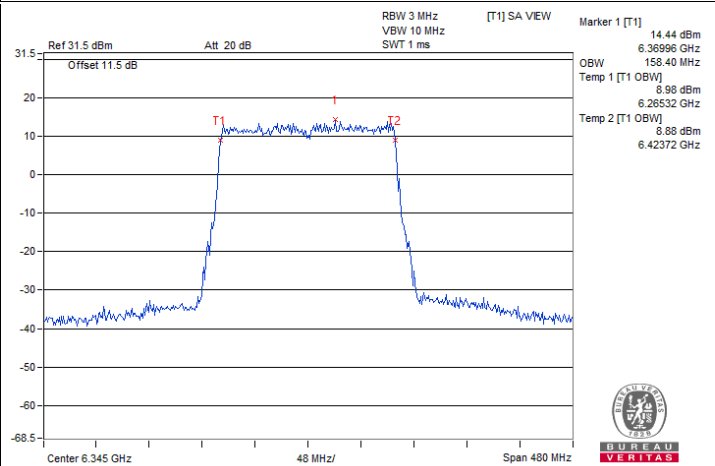
802.11be (EHT20) Beamforming / Chain 0 : CH 97



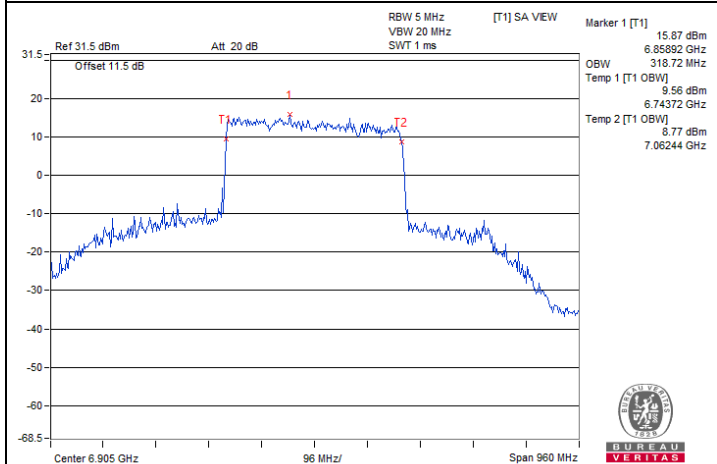
802.11be (EHT40) Beamforming / Chain 0 : CH 187



802.11be (EHT80) Beamforming / Chain 0 : CH 87



802.11be (EHT160) Beamforming / Chain 0 : CH 79



802.11be (EHT320) Beamforming / Chain 0 : CH 191

7.6 Contention-based Protocol

Environmental Conditions:	25°C, 60% RH	Tested By:	Tank Wu
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Mode A

Companion Device Information			
Product	Brand	Model No.	Software/Firmware Version
Orbi 11BE WiFi 7 Tri-band Router	NETGEAR	RBE871	OpenWrt 19.07-SNAPSHOT r0+12951-63a10c0061 / LuCI branch git-24.152.07967-63a10c0 Kernel Version:5.4.213

Note: The EUT device modulation technique OFDMA does not support partial RUs (resource units) and channel puncturing/bandwidth reduction mechanisms.

For U-NII-5

Contention Based Protocol Measurement										
Operation Mode	Channel Bandwidth (MHz)	Channel Number	Channel Freq. (MHz)	Injected Signal (AWGN)		Antenna Gain (dBi)	Path Loss (dB) (Note 3)	Adjusted Power (dBm)	Detection Limit	EUT TX Status
				Freq. (MHz)	Power (dBm)					
802.11be	20	33	6115	6115	-72	1.45	0	-73.45	-62	OFF
					-78	1.45	0	-79.45	-62	Minimal
					-80.55	1.45	0	-82	-62	ON
	320	63	6265	6110	-71	1.45	0	-72.45	-62	OFF
					-75	1.45	0	-76.45	-62	Minimal
					-80.55	1.45	0	-82	-62	ON
				6265	-63	1.45	0	-64.45	-62	OFF
					-68	1.45	0	-69.45	-62	Minimal
					-80.55	1.45	0	-82	-62	ON
				6420	-65	1.45	0	-66.45	-62	OFF
					-71	1.45	0	-72.45	-62	Minimal
					-80.55	1.45	0	-82	-62	ON

Notes:

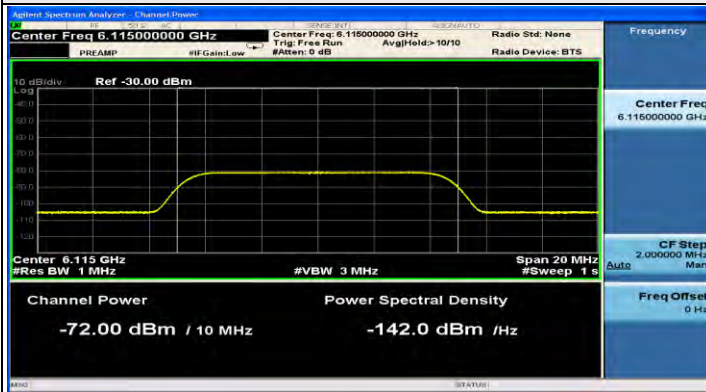
1. After investigation (consider antenna gain and path loss) , the one representative port (Chain 2) was measured and presented in the report.
2. Adjusted Power (dBm) = Injected Signal (AWGN) Power (dBm) - Antenna Gain (dBi) + Path Loss (dB)
3. Antenna gain values include all the applicable path losses.

Contention Based Protocol Detection Probability															
Operation Mode	Channel Bandwidth (MHz)	AWGN Signal Freq. (MHz)	#01	#02	#03	#04	#05	#06	#07	#08	#09	#10	Detection Probability	Detection Limit	Test Result
802.11be	20	6115	v	v	v	v	v	v	v	v	v	v	100%	90%	Pass
	320	6110	v	v	v	v	v	v	v	v	v	v	100%	90%	Pass
		6265	v	v	v	v	v	v	v	v	v	v	100%	90%	Pass
		6420	v	v	v	v	v	v	v	v	v	v	100%	90%	Pass

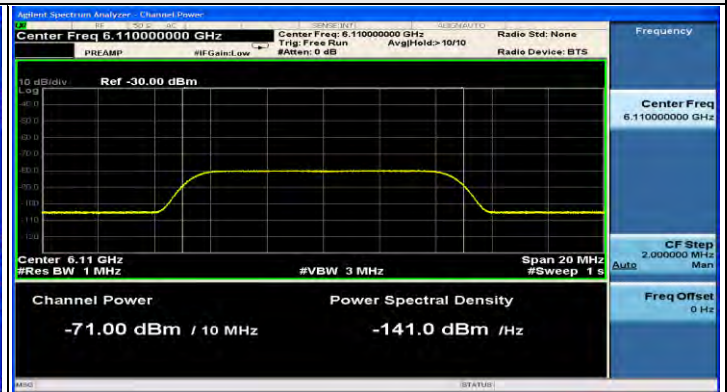
Plots of EUT Tx waveform



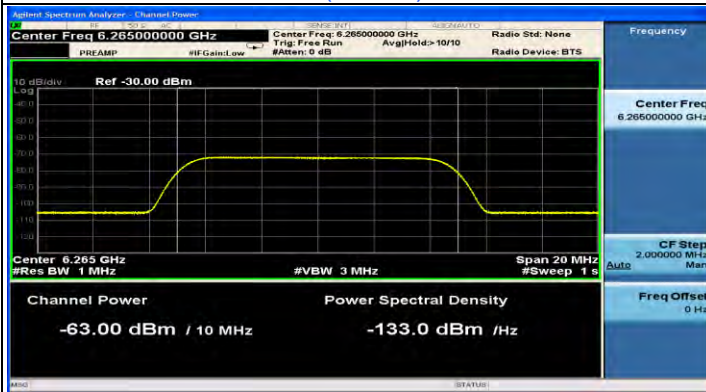
Plots of Injected signal (AWGN) level



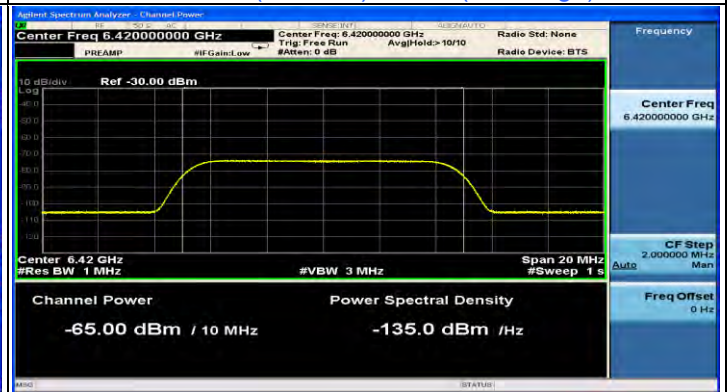
802.11be (EHT20) / CH33



802.11be (EHT320) / CH63(Low Edge)



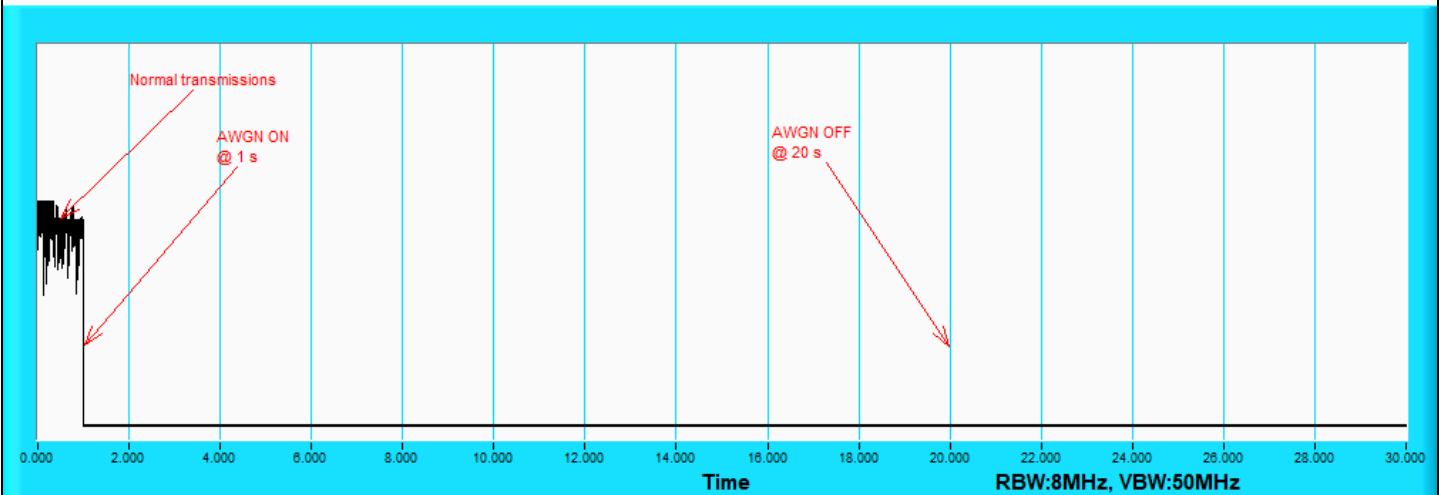
802.11be (EHT320) / CH63(Middle)



802.11be (EHT320) / CH63(High Edge)

Plots of EUT ceased transmission in the time domain

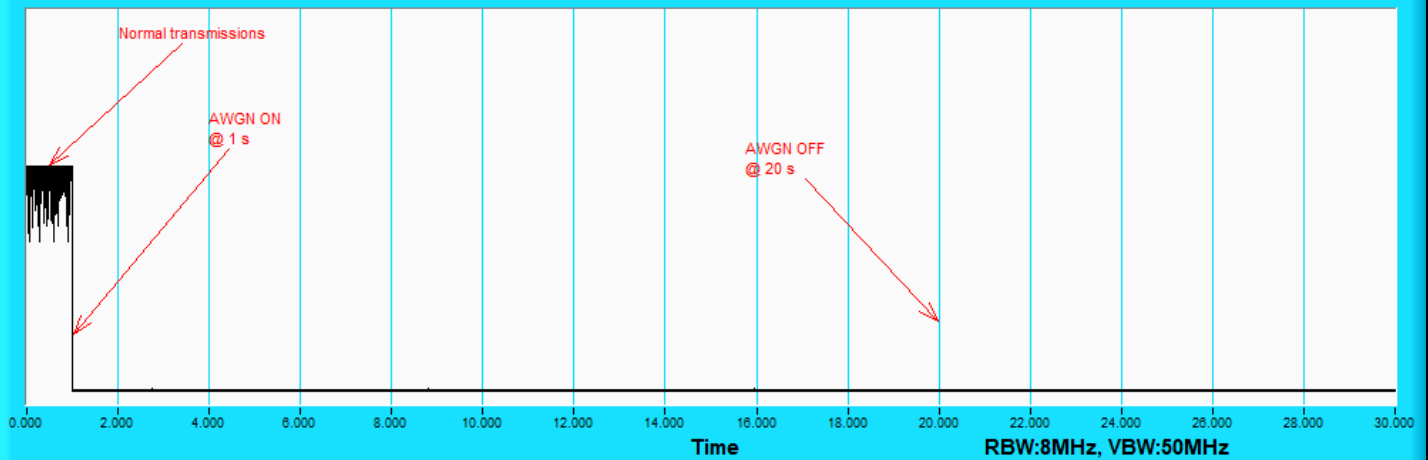
CBP



802.11be (EHT20) / CH33

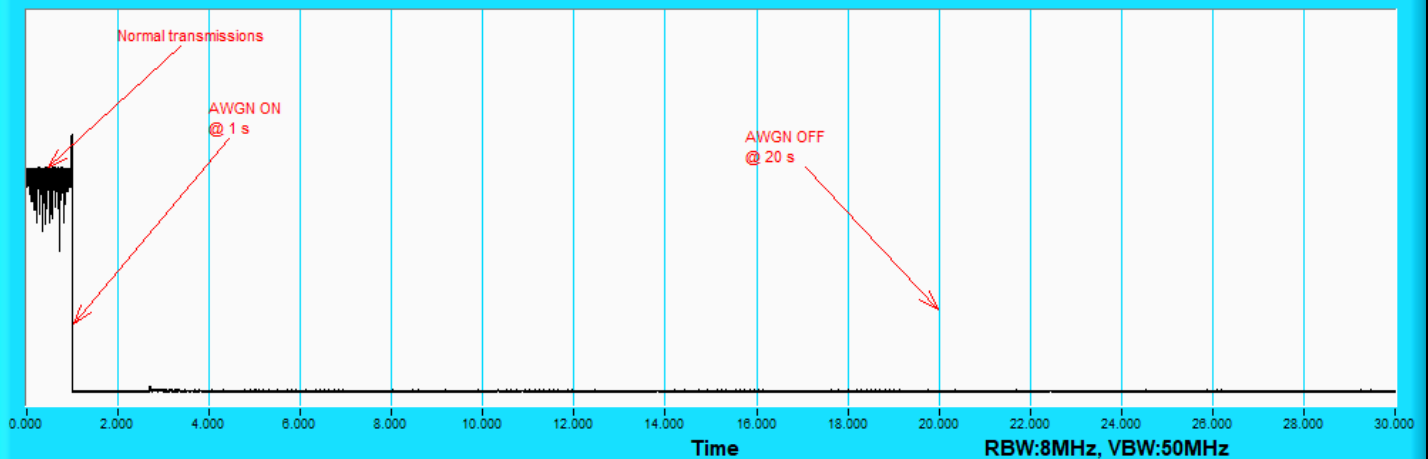
Plots of EUT ceased transmission in the time domain

CBP



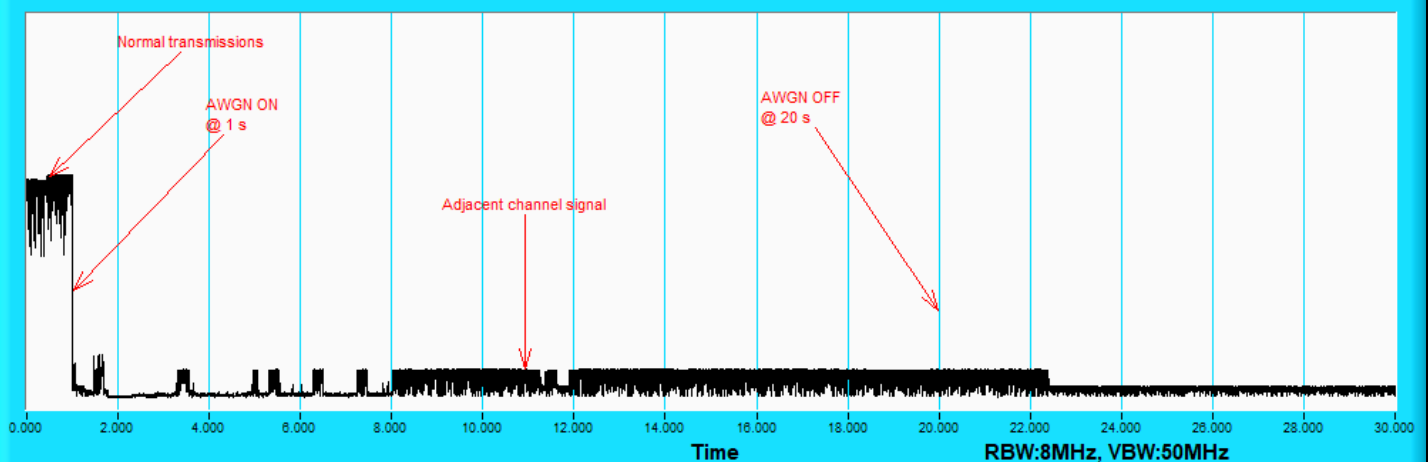
802.11be (EHT320) / CH63(Low Edge)

CBP



802.11be (EHT320) / CH63(Middle)

CBP



802.11be (EHT320) / CH63(High Edge)

For U-NII-6

Contention Based Protocol Measurement										
Operation Mode	Channel Bandwidth (MHz)	Channel Number	Channel Freq. (MHz)	Injected Signal (AWGN)		Antenna Gain (dBi)	Path Loss (dB) (Note 3)	Adjusted Power (dBm)	Detection Limit	EUT TX Status
				Freq. (MHz)	Power (dBm)					
802.11be	20	97	6435	6435	-75	1.45	0	-76.45	-62	OFF
					-79	1.45	0	-80.45	-62	Minimal
					-80.55	1.45	0	-82	-62	ON
	320	95	6425	6270	-66	1.45	0	-67.45	-62	OFF
					-69	1.45	0	-70.45	-62	Minimal
					-80.55	1.45	0	-82	-62	ON
				6425	-68	1.45	0	-69.45	-62	OFF
					-72	1.45	0	-73.45	-62	Minimal
					-80.55	1.45	0	-82	-62	ON
				6580	-70	1.45	0	-71.45	-62	OFF
					-74	1.45	0	-75.45	-62	Minimal
					-80.55	1.45	0	-82	-62	ON

Notes:

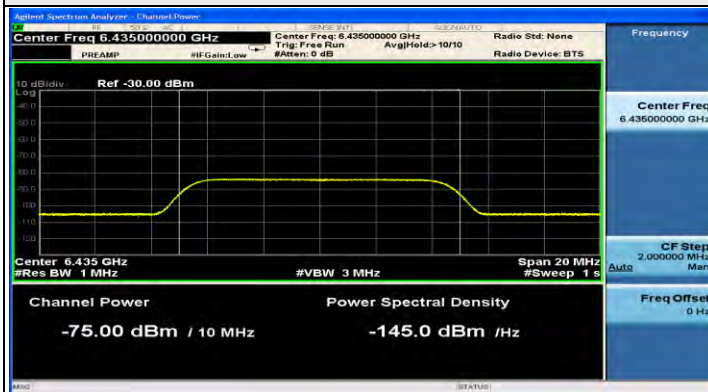
1. After investigation (consider antenna gain and path loss) , the one representative port (Chain 2) was measured and presented in the report.
2. Adjusted Power (dBm) = Injected Signal (AWGN) Power (dBm) - Antenna Gain (dBi) + Path Loss (dB)
3. Antenna gain values include all the applicable path losses.

Contention Based Protocol Detection Probability															
Operation Mode	Channel Bandwidth (MHz)	AWGN Signal Freq. (MHz)	#01	#02	#03	#04	#05	#06	#07	#08	#09	#10	Detection Probability	Detection Limit	Test Result
802.11be	20	6435	v	v	v	v	v	v	v	v	v	v	100%	90%	Pass
	320	6270	v	v	v	v	v	v	v	v	v	v	100%	90%	Pass
		6425	v	v	v	v	v	v	v	v	v	v	100%	90%	Pass
		6580	v	v	v	v	v	v	v	v	v	v	100%	90%	Pass

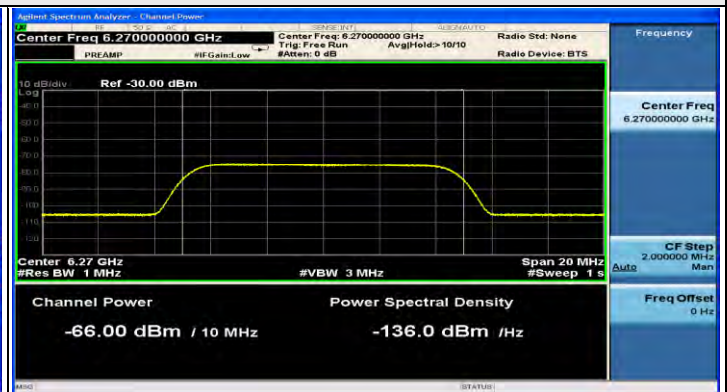
Plots of EUT Tx waveform



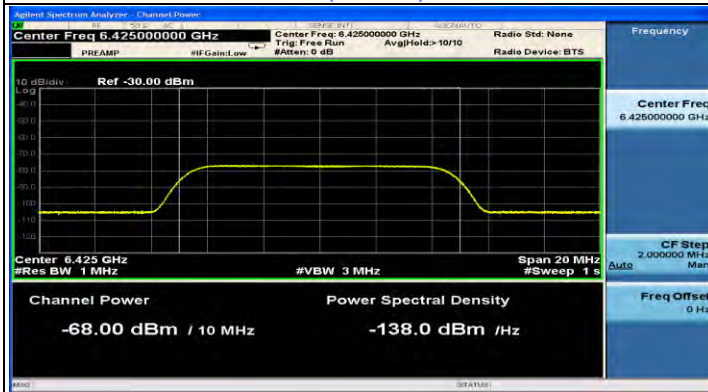
Plots of Injected signal (AWGN) level



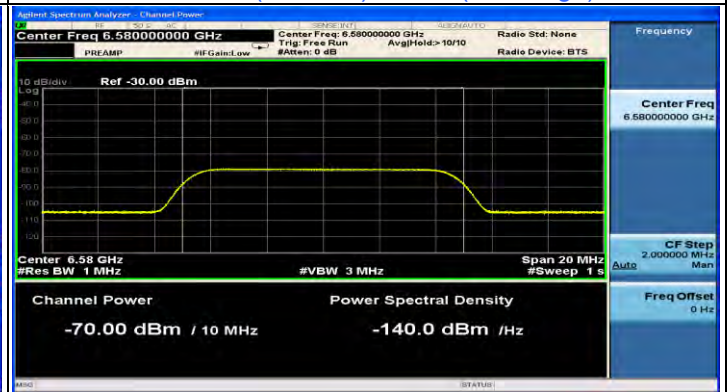
802.11be (EHT20) / CH97



802.11be (EHT320) / CH95(Low Edge)



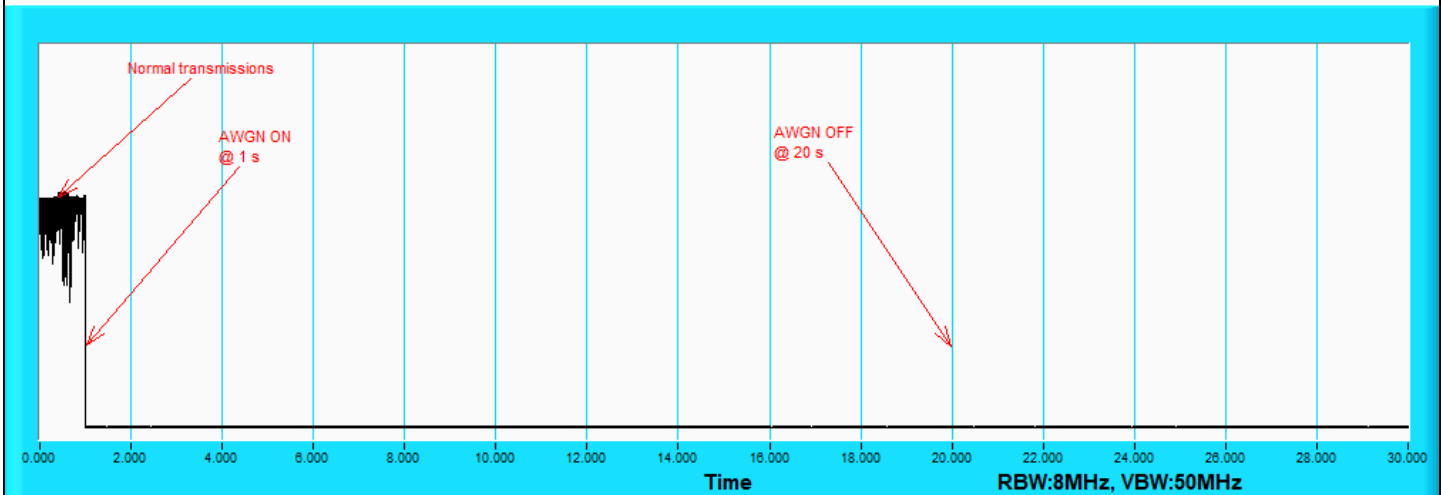
802.11be (EHT320) / CH95(Middle)



802.11be (EHT320) / CH95(High Edge)

Plots of EUT ceased transmission in the time domain

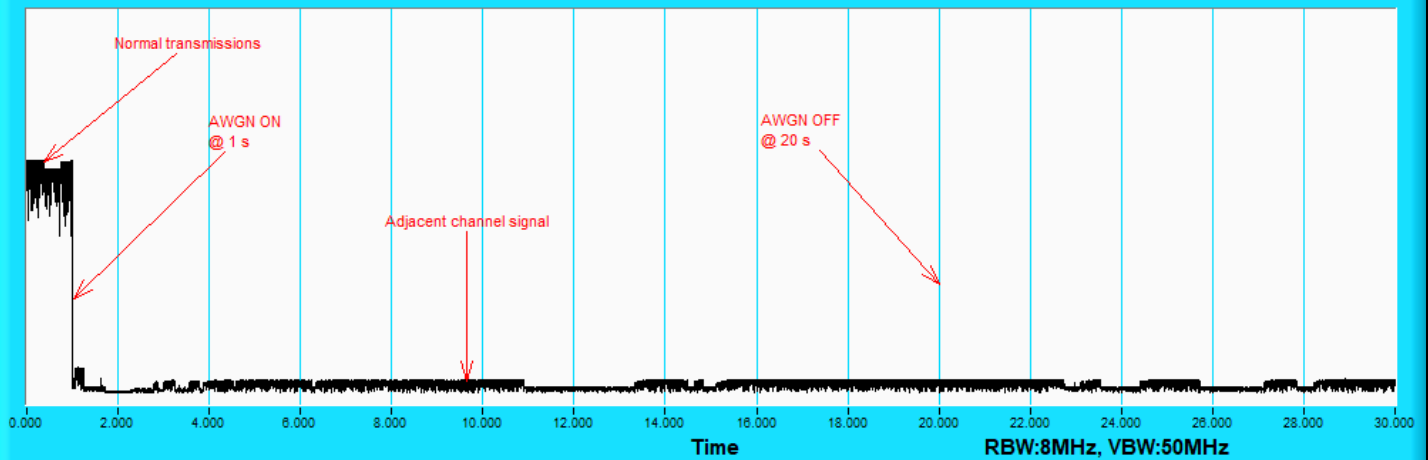
CBP



802.11be (EHT20) / CH97

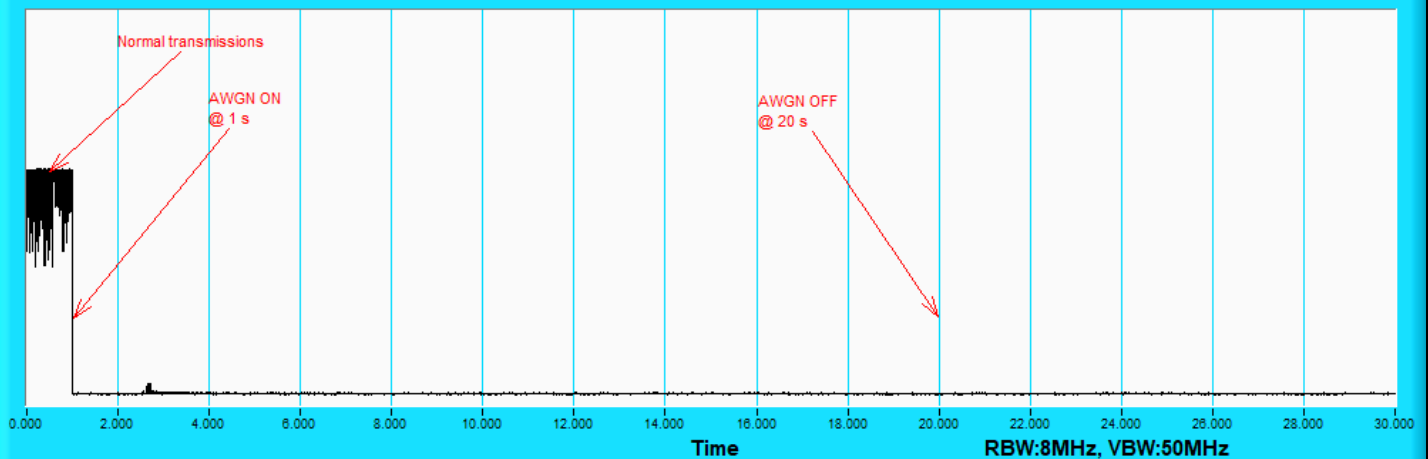
Plots of EUT ceased transmission in the time domain

CBP



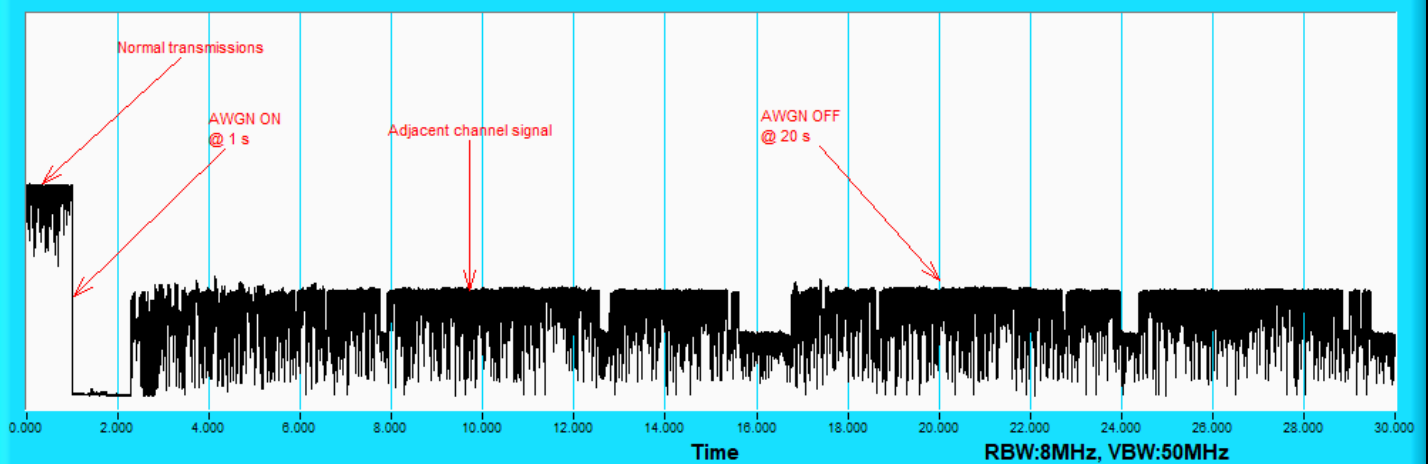
802.11be (EHT320) / CH95(Low Edge)

CBP



802.11be (EHT320) / CH95(Middle)

CBP



802.11be (EHT320) / CH95(High Edge)

For U-NII-7

Contention Based Protocol Measurement										
Operation Mode	Channel Bandwidth (MHz)	Channel Number	Channel Freq. (MHz)	Injected Signal (AWGN)		Antenna Gain (dBi)	Path Loss (dB) (Note 3)	Adjusted Power (dBm)	Detection Limit	EUT TX Status
				Freq. (MHz)	Power (dBm)					
802.11be	20	181	6855	6855	-73	1.45	0	-74.45	-62	OFF
					-78	1.45	0	-79.45	-62	Minimal
					-80.55	1.45	0	-82	-62	ON
	320	159	6745	6590	-66	1.45	0	-67.45	-62	OFF
					-71	1.45	0	-72.45	-62	Minimal
					-80.55	1.45	0	-82	-62	ON
				6745	-64	1.45	0	-65.45	-62	OFF
					-69	1.45	0	-70.45	-62	Minimal
					-80.55	1.45	0	-82	-62	ON
				6900	-69	1.45	0	-70.45	-62	OFF
					-75	1.45	0	-76.45	-62	Minimal
					-80.55	1.45	0	-82	-62	ON

Notes:

1. After investigation (consider antenna gain and path loss) , the one representative port (Chain 2) was measured and presented in the report.
2. Adjusted Power (dBm) = Injected Signal (AWGN) Power (dBm) - Antenna Gain (dBi) + Path Loss (dB)
3. Antenna gain values include all the applicable path losses.

Contention Based Protocol Detection Probability															
Operation Mode	Channel Bandwidth (MHz)	AWGN Signal Freq. (MHz)	#01	#02	#03	#04	#05	#06	#07	#08	#09	#10	Detection Probability	Detection Limit	Test Result
802.11be	20	6855	v	v	v	v	v	v	v	v	v	v	100%	90%	Pass
	320	6590	v	v	v	v	v	v	v	v	v	v	100%	90%	Pass
		6745	v	v	v	v	v	v	v	v	v	v	100%	90%	Pass
		6900	v	v	v	v	v	v	v	v	v	v	100%	90%	Pass

Plots of EUT Tx waveform

