

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 15, Subpart C (Section 15.247)
Report No.: RFBARR-WTW-P24120359-1
FCC ID: RAS-MT7925B14LA
Product: 2TX 11be (WiFi7) BW160 + BT/BLE Combo Card
Brand: MediaTek
Model No.: MT7925B14LA
Received Date: 2024/12/11
Test Date: 2024/12/19 ~ 2025/3/21
Issued Date: 2025/4/7
Applicant: MediaTek Inc.
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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Hsin Chu Laboratory
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FCC Registration / 723255 / TW2022
Designation Number:

Approved by: _____, **Date:** 2025/4/7
May Chen / Manager

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Prepared by : Phoenix Huang / Specialist

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Release Control Record

Issue No.	Description	Date Issued
RFBARR-WTW-P24120359-1	Original release.	2025/4/7

1 Certificate

Product: 2TX 11be (WiFi7) BW160 + BT/BLE Combo Card
Brand: MediaTek
Test Model: MT7925B14LA
Sample Status: Engineering sample
Applicant: MediaTek Inc.
Test Date: 2024/12/19 ~ 2025/3/21
Standard: 47 CFR FCC Part 15, Subpart C (Section 15.247)
Measurement procedure: ANSI C63.10-2013
KDB 558074 D01 15.247 Meas Guidance v05r02
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 C (Section 15.247)			
Standard / Clause	Test Item	Result	Remark
15.247(b)	RF Output Power	Pass	Meet the requirement of limit.
15.247(e)	Power Spectral Density	Pass	Meet the requirement of limit.
15.247(a)(2)	6 dB Bandwidth	Pass	Meet the requirement of limit.
15.247(d)	Conducted Out of Band Emissions	Pass	Meet the requirement of limit.
15.207	AC Power Conducted Emissions	Pass	Minimum passing margin is -8.62 dB at 0.15000 MHz
15.205 / 15.209 / 15.247(d)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -1.8 dB at 286.92 MHz and 696.11 MHz
15.205 / 15.209 / 15.247(d)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -0.04 dB at 23884.9 MHz
15.203	Antenna Requirement	Pass	Antenna connector is i-pex(MHF) not a standard connector.

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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) (±)
RF Output Power	-	1.1 dB
Power Spectral Density	-	1.3 dB
6 dB Bandwidth	-	1050.00 Hz
Conducted Out of Band Emissions	9 kHz ~ 40 GHz	2.6 dB
AC Power Conducted Emissions	150 kHz ~ 30 MHz	1.9 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	3.1 dB
	30 MHz ~ 1 GHz	5.5 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	5.1 dB
	18 GHz ~ 40 GHz	5.3 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

Product	2TX 11be (WiFi7) BW160 + BT/BLE Combo Card
Brand	MediaTek
Test Model	MT7925B14LA
Status of EUT	Engineering sample
Power Supply Rating	3.3 Vdc from host equipment
Modulation Type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in VHT mode 1024QAM for OFDMA in 11ax mode 4096QAM for OFDMA in 11be mode
Modulation Technology	DSSS, OFDM, OFDMA
Transfer Rate	802.11b: up to 11 Mbps 802.11g: up to 54 Mbps 802.11n: up to 300 Mbps VHT: up to 400 Mbps 802.11ax: up to 573.5 Mbps 802.11be: up to 688.2 Mbps
Operating Frequency	2.412 GHz ~ 2.472 GHz
Number of Channel	802.11b, 802.11g, 802.11n (HT20), VHT20, 802.11ax (HE20), 802.11be (EHT20): 13 802.11n (HT40), VHT40, 802.11ax (HE40), 802.11be (EHT40): 9
Resource Unit (RU)	Single RU: 26-tone, 52-tone, 106-tone, 242-tone, 484-tone Multi-RU (Small RU): 52-tone + 26-tone, 106-tone + 26-tone
Output Power	1TX: 165.577 mW (22.19 dBm) 2TX: 231.311 mW (23.64 dBm)

Note:

1. There are Bluetooth and WLAN (2.4 GHz & 5 GHz & 5.9 GHz & 6 GHz) technology used for the EUT.
2. Simultaneously transmission combination.

Combination	Technology	
1	WLAN (5 GHz) (2TX)	Bluetooth
2	WLAN (5.9 GHz) (2TX)	Bluetooth
3	WLAN (6 GHz) (2TX)	Bluetooth
4	WLAN (2.4 GHz) (1TX)	WLAN (5 GHz) (1TX)
5	WLAN (2.4 GHz) (1TX)	WLAN (5.9 GHz) (1TX)
6	WLAN (2.4 GHz) (1TX)	WLAN (6 GHz) (1TX)

Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.

3. The EUT support OFDMA and Partial RU mode, therefore partial RU combination were investigated and the worst case scenario was identified.
4. The EUT support MRU mode is listed as below.

BW	Small size	
	52+26-tone MRU	106+26-tone MRU
20 MHz	v	v
40 MHz	v	v

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

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna Set	RF Chain NO.	Brand	Model	Antenna Net Gain (dBi)	Frequency Range (GHz)	Antenna Type	Connector Type	Cable Length (mm)
1	Chain0	PSA	RFMTA311020EMMB301	1.71 4.82 4.76 4.29 4.61 4.09	2.4 ~ 2.4835 5.15 ~ 5.895 5.925 ~ 6.425 6.425 ~ 6.525 6.525 ~ 6.875 6.875 ~ 7.125	PIFA	i-pex(MHF)	200
	Chain1	PSA	RFMTA311020EMMB301	1.71 4.82 4.76 4.29 4.61 4.09	2.4 ~ 2.4835 5.15 ~ 5.895 5.925 ~ 6.425 6.425 ~ 6.525 6.525 ~ 6.875 6.875 ~ 7.125	PIFA	i-pex(MHF)	200
2	Chain0	INPAQ	RFFPA493517EMAB901	6.19	2.4 ~ 2.4835	PIFA	i-pex(MHF)	125
	Chain1	INPAQ	RFFPA493517EMAB901	6.19	2.4 ~ 2.4835	PIFA	i-pex(MHF)	125
3	Chain0	INPAQ	RFFPA494517EM5B901	8.37	5.15 ~ 5.925	PIFA	i-pex(MHF)	125
	Chain1	INPAQ	RFFPA494517EM5B901	8.37	5.15 ~ 5.925	PIFA	i-pex(MHF)	125
4	Chain0	INPAQ	RFFPA494217EM6B901	8.37	5.925 ~ 7.125	PIFA	i-pex(MHF)	125
	Chain1	INPAQ	RFFPA494217EM6B901	8.37	5.925 ~ 7.125	PIFA	i-pex(MHF)	125
5	Chain0	PSA	RFMTA421230IMMB701	-13.92 -13.91 -13.91 -14.46	5.925 ~ 6.425 6.425 ~ 6.525 6.525 ~ 6.875 6.875 ~ 7.125	PIFA	i-pex(MHF)	300
	Chain1	PSA	RFMTA421230IMMB701	-13.92 -13.91 -13.91 -14.46	5.925 ~ 6.425 6.425 ~ 6.525 6.525 ~ 6.875 6.875 ~ 7.125	PIFA	i-pex(MHF)	300

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

2. The EUT incorporates a MIMO function:

2.4 GHz Band					
Modulation Mode	TX & RX Configuration		CDD Mode	Beamforming Mode	
802.11b	SIMO	1TX (Diversity)	2RX	-	-
802.11g		1TX (Diversity)	2RX	-	-
802.11n (HT20)		1TX (Diversity)	2RX	-	-
802.11n (HT40)		1TX (Diversity)	2RX	-	-
VHT20		1TX (Diversity)	2RX	-	-
VHT40		1TX (Diversity)	2RX	-	-
802.11ax (HE20)		1TX (Diversity)	2RX	-	-
802.11ax (HE40)		1TX (Diversity)	2RX	-	-
802.11be (EHT20)		1TX (Diversity)	2RX	-	-
802.11be (EHT40)		1TX (Diversity)	2RX	-	-
802.11ax (RU26/52/106/242/484)		1TX (Diversity)	2RX	-	-
802.11be (RU26/52/106/242/484 MRU52+26/106+26)		1TX (Diversity)	2RX	-	-
802.11b	MIMO	2TX	2RX	Support	Not Support
802.11g		2TX	2RX	Support	Not Support
802.11n (HT20)		2TX	2RX	Support NSS2	Not Support
802.11n (HT40)		2TX	2RX	Support NSS2	Not Support
VHT20		2TX	2RX	Support NSS2	Not Support
VHT40		2TX	2RX	Support NSS2	Not Support
802.11ax (HE20)		2TX	2RX	Support NSS2	Not Support
802.11ax (HE40)		2TX	2RX	Support NSS2	Not Support
802.11be (EHT20)		2TX	2RX	Support NSS2	Not Support
802.11be (EHT40)		2TX	2RX	Support NSS2	Not Support
802.11ax (RU26/52/106/242/484)		2TX	2RX	Support NSS2	Not Support
802.11be (RU26/52/106/242/484 MRU52+26/106+26)		2TX	2RX	Support NSS2	Not Support

Note: The modulation and bandwidth are similar for 802.11n mode for 20 MHz (40 MHz), VHT mode for 20 MHz (40 MHz), 802.11ax mode for 20 MHz (40 MHz) and 802.11be mode for 20 MHz (40 MHz). Therefore the investigated worst case is the representative mode in test report.

3.3 Channel List

13 channels are provided for 802.11b, 802.11g, 802.11n (HT20), VHT20, 802.11ax (HE20), 802.11be (EHT20):

Channel	Frequency	Channel	Frequency
1	2412 MHz	8	2447 MHz
2	2417 MHz	9	2452 MHz
3	2422 MHz	10	2457 MHz
4	2427 MHz	11	2462 MHz
5	2432 MHz	12	2467 MHz
6	2437 MHz	13	2472 MHz
7	2442 MHz		

9 channels are provided for 802.11n (HT40), VHT40, 802.11ax (HE40), 802.11be (EHT40):

Channel	Frequency	Channel	Frequency
3	2422 MHz	8	2447 MHz
4	2427 MHz	9	2452 MHz
5	2432 MHz	10	2457 MHz
6	2437 MHz	11	2462 MHz
7	2442 MHz		

3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). 2. The worst-case Partial RU modes across all supported bandwidth modes has been determined via pre-scan. The worst case occurs in 20 MHz bandwidth (RU 26/52/106). 3. For 1TX diversity configuration, transmit chain 0 and chain 1 have been evaluated, the chain 0 was the worst case and chosen for representative test.
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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	RU/MRU Index
RF Output Power	A	802.11b	1TX / 2TX	1, 6, 11, 12, 13	DBPSK	1Mb/s	NA
		802.11g	1TX / 2TX	1, 6, 11, 12, 13	BPSK	6Mb/s	NA
		VHT20	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	NA
		VHT40	1S1T / 2S2T	3, 6, 9, 10, 11	BPSK	MCS0	NA
		802.11ax (HE20)	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	NA
		802.11ax (HE40)	1S1T / 2S2T	3, 6, 9, 10, 11	BPSK	MCS0	NA
		802.11be (EHT20)	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	NA
		802.11be (EHT40)	1S1T / 2S2T	3, 6, 9, 10, 11	BPSK	MCS0	NA
		802.11ax (HE20) 26-tone RU	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	0, 0, 8, 8, 8
		802.11ax (HE20) 52-tone RU	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	37, 37, 40, 40, 40
		802.11ax (HE20) 106-tone RU	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	53, 53, 54, 54, 54
		802.11be (EHT20) 26-tone RU	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	0, 0, 8, 8, 8
		802.11be (EHT20) 52-tone RU	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	37, 37, 40, 40, 40
		802.11be (EHT20) 106-tone RU	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	53, 53, 54, 54, 54
		802.11be (EHT20) 52+26-tone MRU	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	70, 70, 72, 72, 72
		802.11be (EHT20) 106+26-tone MRU	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	82, 82, 83, 83, 83
Power Spectral Density	A	802.11b	1TX / 2TX	1, 6, 11, 12, 13	DBPSK	1Mb/s	NA
		802.11g	1TX / 2TX	1, 6, 11, 12, 13	BPSK	6Mb/s	NA
		802.11be (EHT20)	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	NA
		802.11be (EHT40)	1S1T / 2S2T	3, 6, 9, 10, 11	BPSK	MCS0	NA
		802.11be (EHT20) 26-tone RU	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	0, 0, 8, 8, 8
		802.11be (EHT20) 52-tone RU	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	37, 37, 40, 40, 40
		802.11be (EHT20) 106-tone RU	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	53, 53, 54, 54, 54
		802.11be (EHT20) 52+26-tone MRU	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	70, 70, 72, 72, 72
		802.11be (EHT20) 106+26-tone MRU	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	82, 82, 83, 83, 83

Test Item	EUT Configure Mode	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter	RU/MRU Index
6 dB Bandwidth	A	802.11b	1TX / 2TX	1, 6, 11, 12, 13	DBPSK	1Mb/s	NA
		802.11g	1TX / 2TX	1, 6, 11, 12, 13	BPSK	6Mb/s	NA
		802.11be (EHT20)	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	NA
		802.11be (EHT40)	1S1T / 2S2T	3, 6, 9, 10, 11	BPSK	MCS0	NA
		802.11be (EHT20) 26-tone RU	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	0, 0, 8, 8, 8
		802.11be (EHT20) 52-tone RU	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	37, 37, 40, 40, 40
		802.11be (EHT20) 106-tone RU	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	53, 53, 54, 54, 54
		802.11be (EHT20) 52+26-tone MRU	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	70, 70, 72, 72, 72
		802.11be (EHT20) 106+26-tone MRU	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	82, 82, 83,83,83
Conducted Out of Band Emissions	A	802.11b	1TX / 2TX	1, 6, 11, 12, 13	DBPSK	1Mb/s	NA
		802.11g	1TX / 2TX	1, 6, 11, 12, 13	BPSK	6Mb/s	NA
		802.11be (EHT20)	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	NA
		802.11be (EHT40)	1S1T / 2S2T	3, 6, 9, 10, 11	BPSK	MCS0	NA
		802.11be (EHT20) 26-tone RU	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	0, 0, 8, 8, 8
		802.11be (EHT20) 52-tone RU	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	37, 37, 40, 40, 40
		802.11be (EHT20) 106-tone RU	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	53, 53, 54, 54, 54
		802.11be (EHT20) 52+26-tone MRU	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	70, 70, 72, 72, 72
		802.11be (EHT20) 106+26-tone MRU	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	82, 82, 83,83,83
AC Power Conducted Emissions	C	802.11g	1TX	6	BPSK	6Mb/s	NA
802.11be (EHT20)		2S2T	6	BPSK	MCS0	NA	
Unwanted Emissions below 1 GHz	A, B	802.11g	1TX	6	BPSK	6Mb/s	NA
		802.11be (EHT20)	2S2T	6	BPSK	MCS0	NA
Unwanted Emissions above 1 GHz	A, B	802.11b	1TX / 2TX	1, 6, 11, 12, 13	DBPSK	1Mb/s	NA
		802.11g	1TX / 2TX	1, 6, 11, 12, 13	BPSK	6Mb/s	NA
		802.11be (EHT20)	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	NA
		802.11be (EHT40)	1S1T / 2S2T	3, 6, 9, 10, 11	BPSK	MCS0	NA
		802.11be (EHT20) 26-tone RU	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	0, 0, 8, 8, 8
		802.11be (EHT20) 52-tone RU	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	37, 37, 40, 40, 40
		802.11be (EHT20) 106-tone RU	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	53, 53, 54, 54, 54
		802.11be (EHT20) 52+26-tone MRU	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	70, 70, 72, 72, 72
		802.11be (EHT20) 106+26-tone MRU	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	82, 82, 83,83,83
EUT Configure Mode:	A	EUT only (remove 50 ohm terminator and Connect to the appropriate equipment)					
	B	EUT with 50 ohm terminator					
	C	EUT with antenna (PIFA Antenna Set 2)					
Note: Channel puncturing mechanism is not supported.							

3.5 Duty Cycle of Test Signal

802.11b 1TX:

Duty cycle = 12.157 ms / 12.333 ms x 100% = 98.6%

802.11g 1TX:

Duty cycle = 2.019 ms / 2.077 ms x 100% = 97.2%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.12 \text{ dB}$

VHT20 1S1T:

Duty cycle = 4.625 ms / 4.725 ms x 100% = 97.9%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.09 \text{ dB}$

VHT40 1S1T:

Duty cycle = 4.625 ms / 4.725 ms x 100% = 97.9%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.09 \text{ dB}$

802.11ax (HE20) 1S1T:

Duty cycle = 4.625 ms / 4.725 ms x 100% = 97.9%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.09 \text{ dB}$

802.11ax (HE40) 1S1T:

Duty cycle = 4.625 ms / 4.725 ms x 100% = 97.9%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.09 \text{ dB}$

802.11be (EHT20) 1S1T:

Duty cycle = 4.625 ms / 4.725 ms x 100% = 97.9%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.09 \text{ dB}$

802.11be (EHT40) 1S1T:

Duty cycle = 4.625 ms / 4.725 ms x 100% = 97.9%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.09 \text{ dB}$

802.11ax (HE20) 26-tone RU 1S1T:

Duty cycle = 1.596 ms / 1.674 ms x 100% = 95.3%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.21 \text{ dB}$

802.11ax (HE20) 52-tone RU 1S1T:

Duty cycle = 1.522 ms / 1.608 ms x 100% = 94.7%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.24 \text{ dB}$

802.11ax (HE20) 106-tone RU 1S1T:

Duty cycle = 1.396 ms / 1.457 ms x 100% = 95.8%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.19 \text{ dB}$

802.11be (EHT20) 26-tone RU 1S1T:

Duty cycle = 1.596 ms / 1.674 ms x 100% = 95.3%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.21 \text{ dB}$

802.11be (EHT20) 52-tone RU 1S1T:

Duty cycle = 1.522 ms / 1.608 ms x 100% = 94.7%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.24 \text{ dB}$

802.11be (EHT20) 106-tone RU 1S1T:

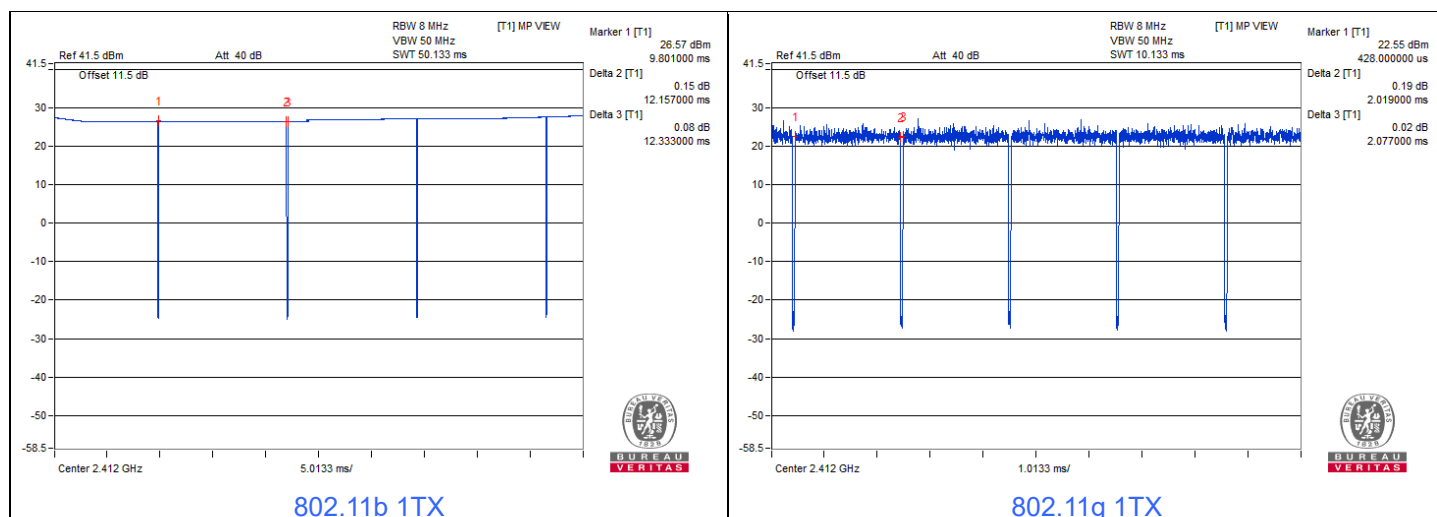
Duty cycle = 1.396 ms / 1.457 ms x 100% = 95.8%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.19 \text{ dB}$

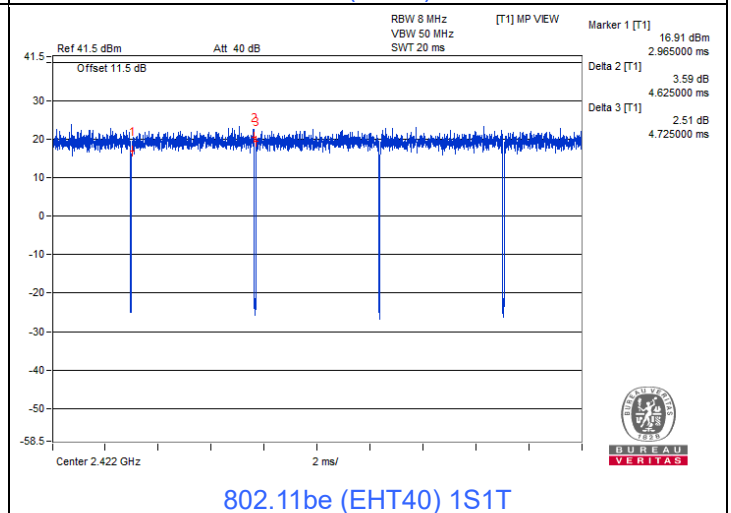
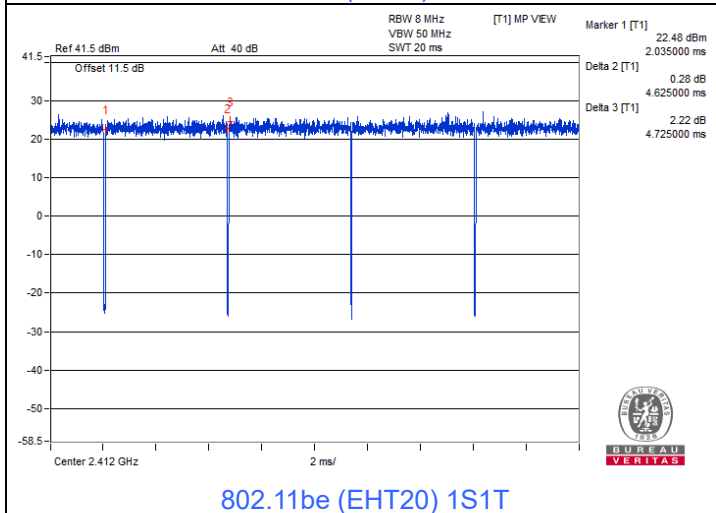
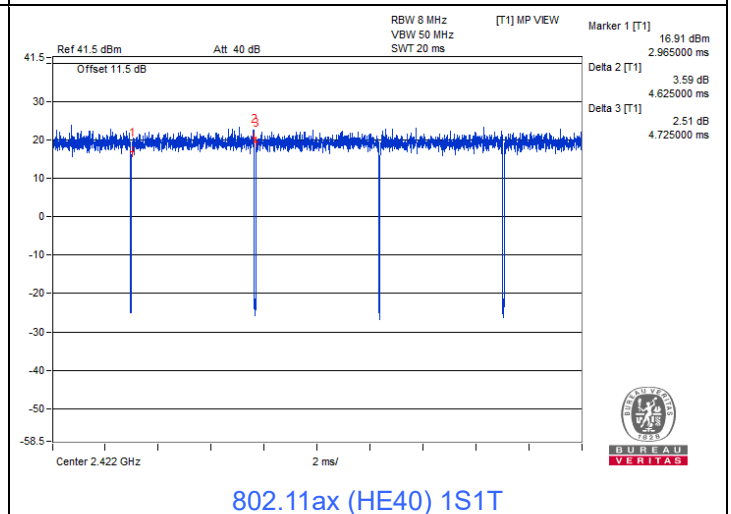
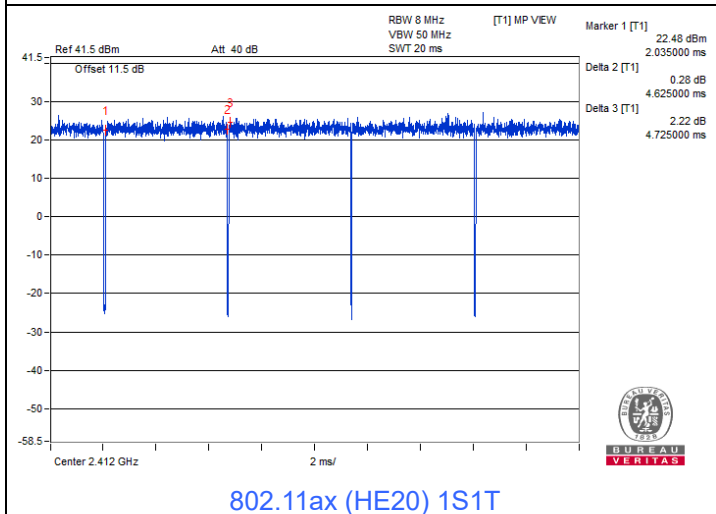
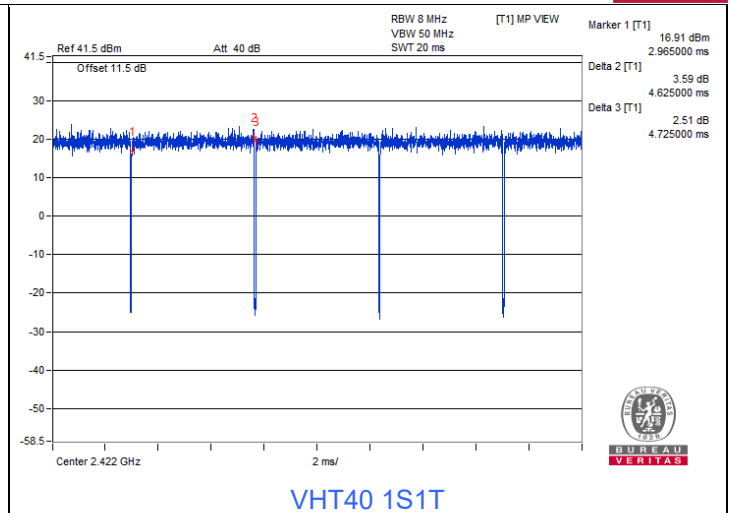
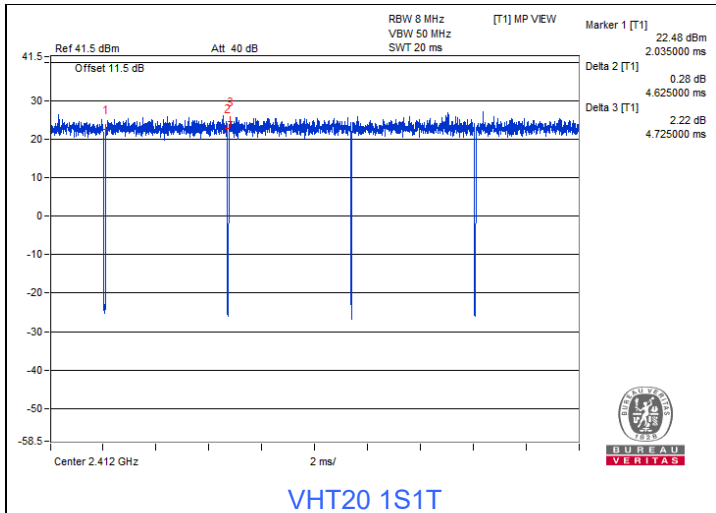
802.11be (EHT20) 52+26-tone MRU 1S1T:

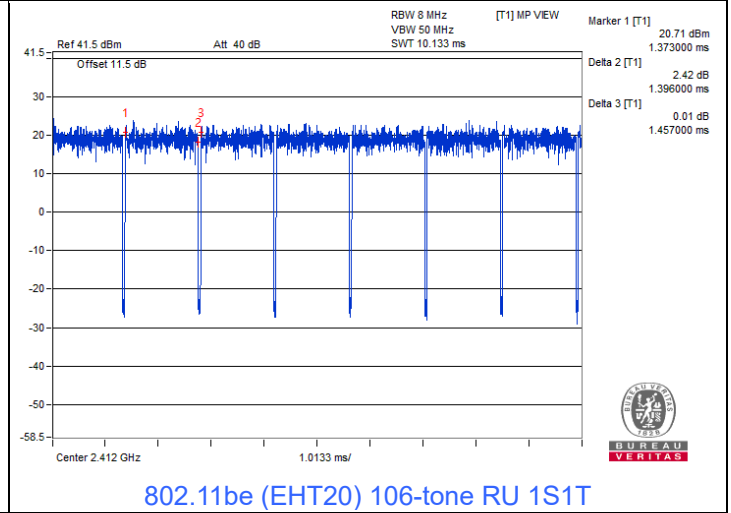
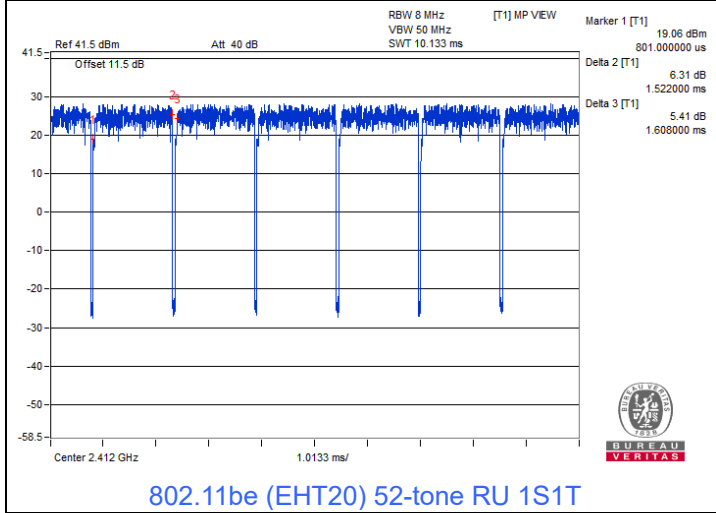
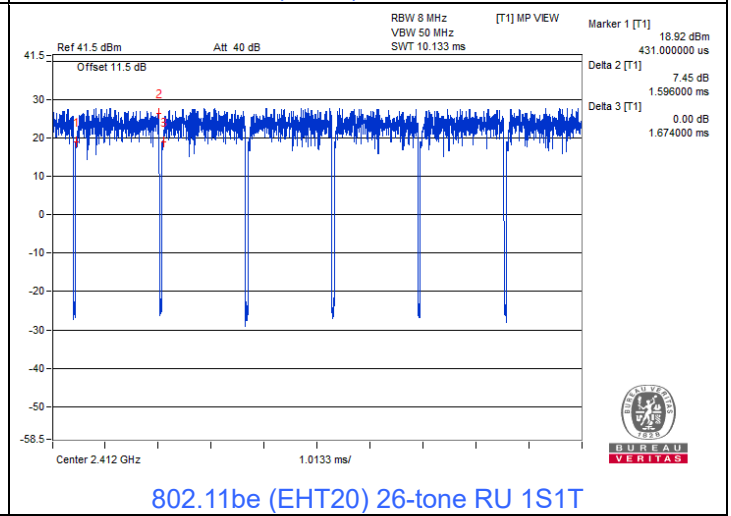
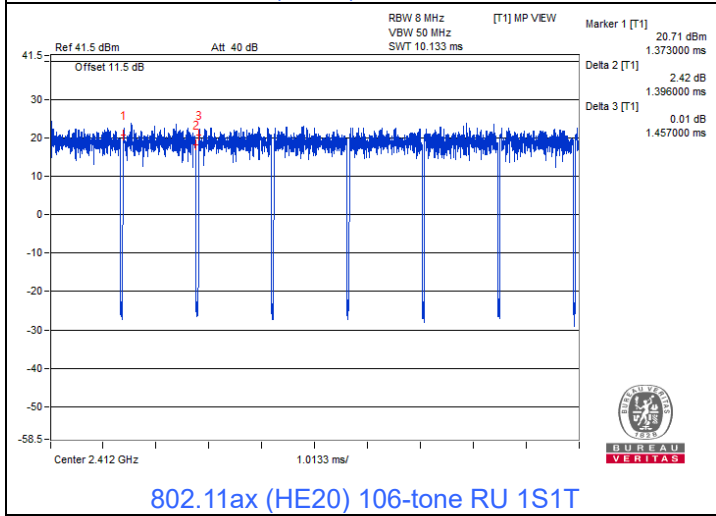
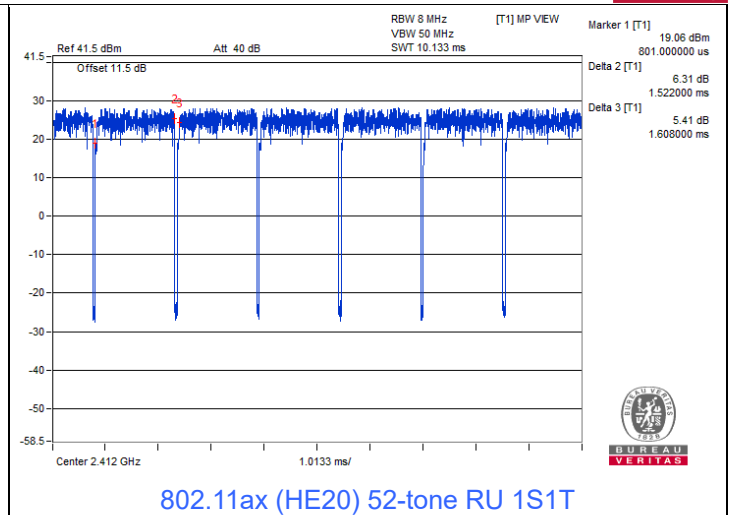
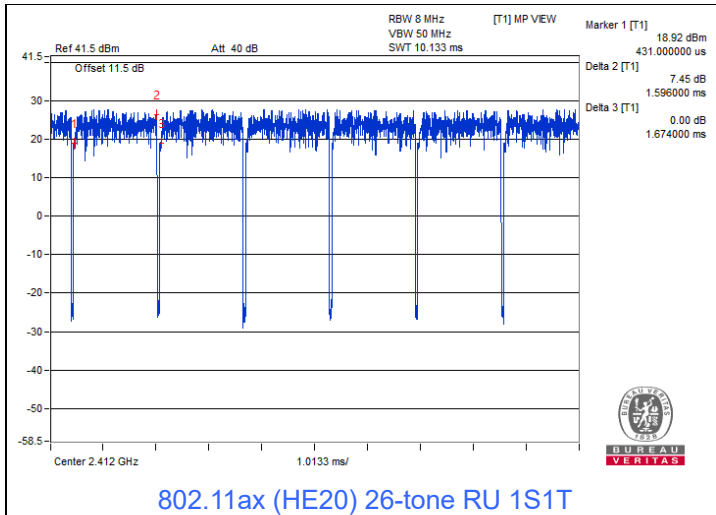
Duty cycle = 1.492 ms / 1.55 ms x 100% = 96.3%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.17 \text{ dB}$

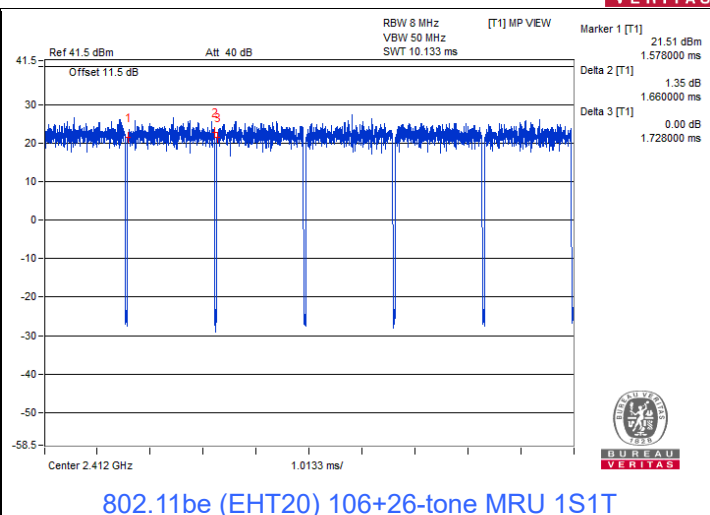
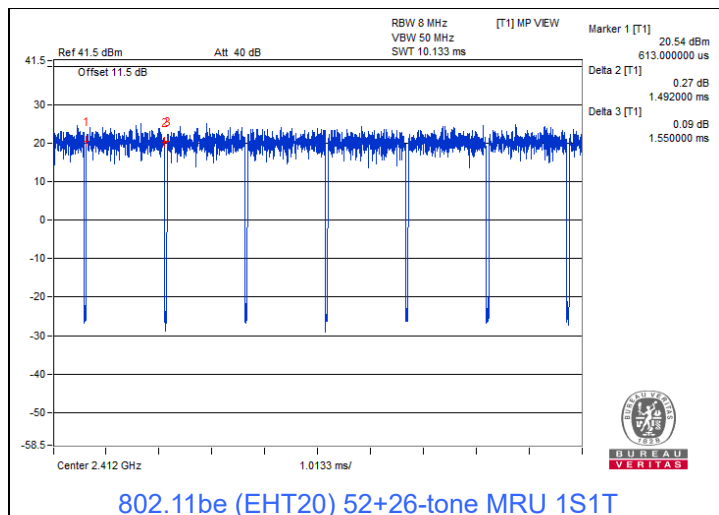
802.11be (EHT20) 106+26-tone MRU 1S1T:

Duty cycle = 1.66 ms / 1.728 ms x 100% = 96.1%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.17 \text{ dB}$









802.11b 2TX:

Duty cycle = 12.145 ms / 12.333 ms x 100% = 98.5%

802.11g 2TX:

Duty cycle = 2.022 ms / 2.093 ms x 100% = 96.6%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.15 \text{ dB}$

VHT20 2S2T:

Duty cycle = 2.36 ms / 2.444 ms x 100% = 96.6%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.15 \text{ dB}$

VHT40 2S2T:

Duty cycle = 2.364 ms / 2.455 ms x 100% = 96.3%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.16 \text{ dB}$

802.11ax (HE20) 2S2T:

Duty cycle = 2.36 ms / 2.444 ms x 100% = 96.6%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.15 \text{ dB}$

802.11ax (HE40) 2S2T:

Duty cycle = 2.364 ms / 2.455 ms x 100% = 96.3%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.16 \text{ dB}$

802.11be (EHT20) 2S2T:

Duty cycle = 2.36 ms / 2.444 ms x 100% = 96.6%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.15 \text{ dB}$

802.11be (EHT40) 2S2T:

Duty cycle = 2.364 ms / 2.455 ms x 100% = 96.3%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.16 \text{ dB}$

802.11ax (HE20) 26-tone RU 2S2T:

Duty cycle = 0.852 ms / 0.907 ms x 100% = 93.9%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.27 \text{ dB}$

802.11ax (HE20) 52-tone RU 2S2T:

Duty cycle = 0.816 ms / 0.888 ms x 100% = 91.9%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.37 \text{ dB}$

802.11ax (HE20) 106-tone RU 2S2T:

Duty cycle = 0.756 ms / 0.81 ms x 100% = 93.3%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.30 \text{ dB}$

802.11be (EHT20) 26-tone RU 2S2T:

Duty cycle = 0.852 ms / 0.907 ms x 100% = 93.9%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.27 \text{ dB}$

802.11be (EHT20) 52-tone RU 2S2T:

Duty cycle = 0.816 ms / 0.888 ms x 100% = 91.9%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.37 \text{ dB}$

802.11be (EHT20) 106-tone RU 2S2T:

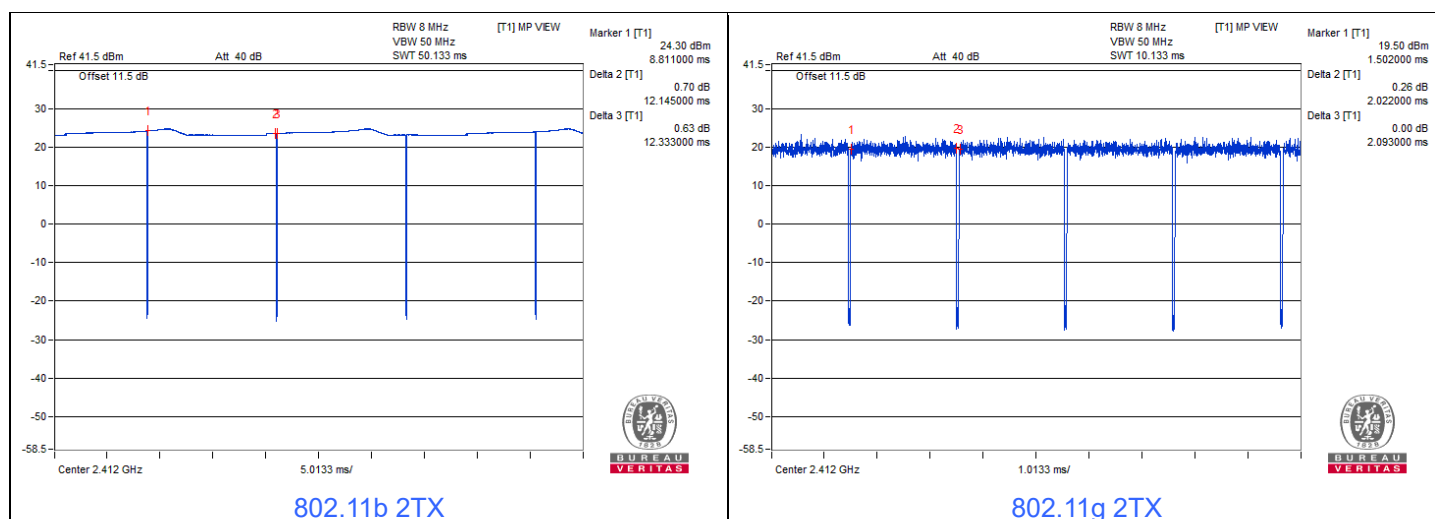
Duty cycle = 0.756 ms / 0.81 ms x 100% = 93.3%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.30 \text{ dB}$

802.11be (EHT20) 52+26-tone MRU 2S2T:

Duty cycle = 0.799 ms / 0.855 ms x 100% = 93.5%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.29 \text{ dB}$

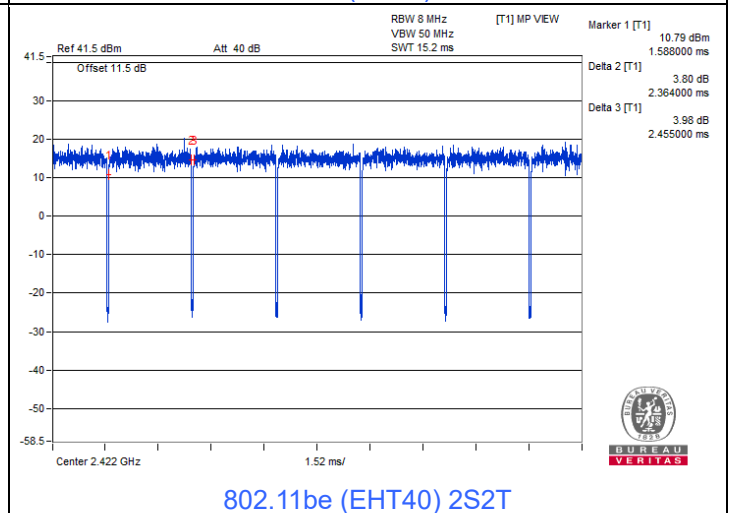
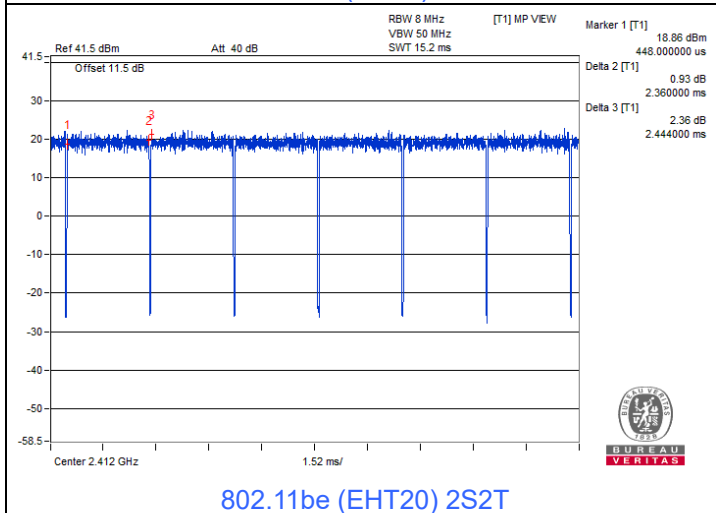
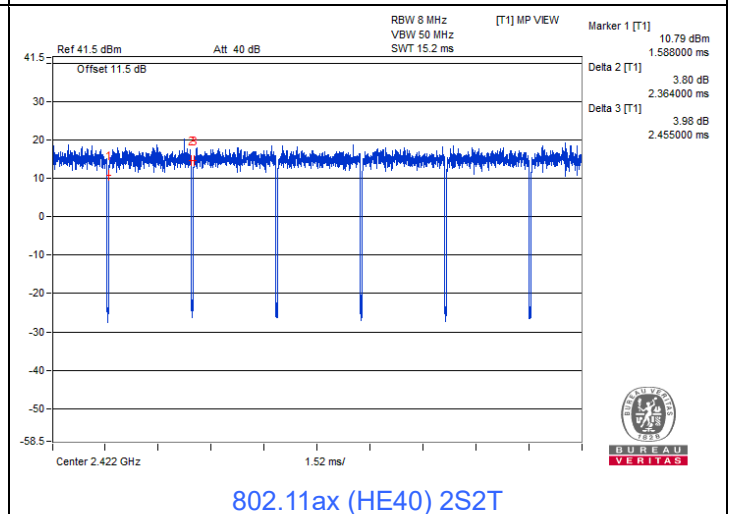
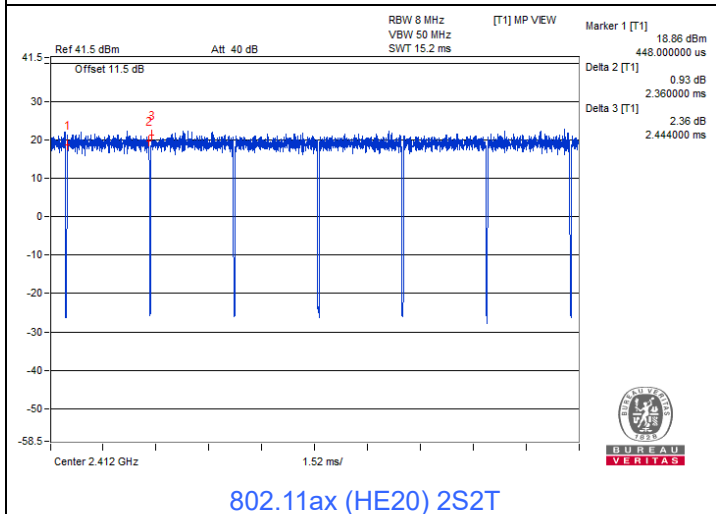
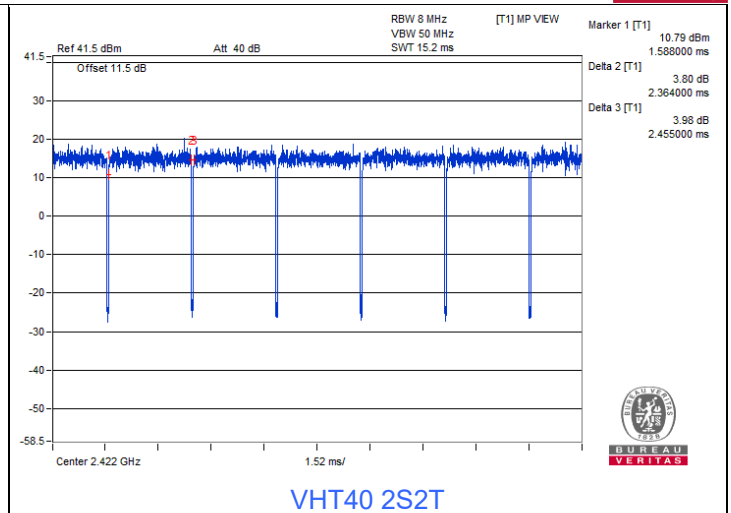
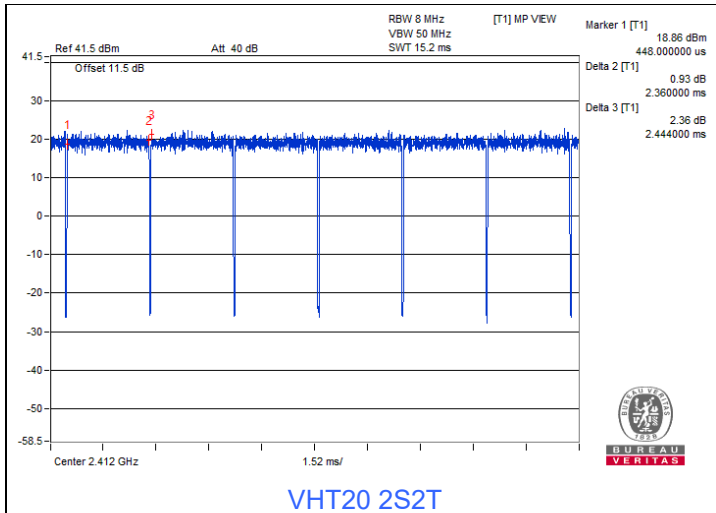
802.11be (EHT20) 106+26-tone MRU 2S2T:

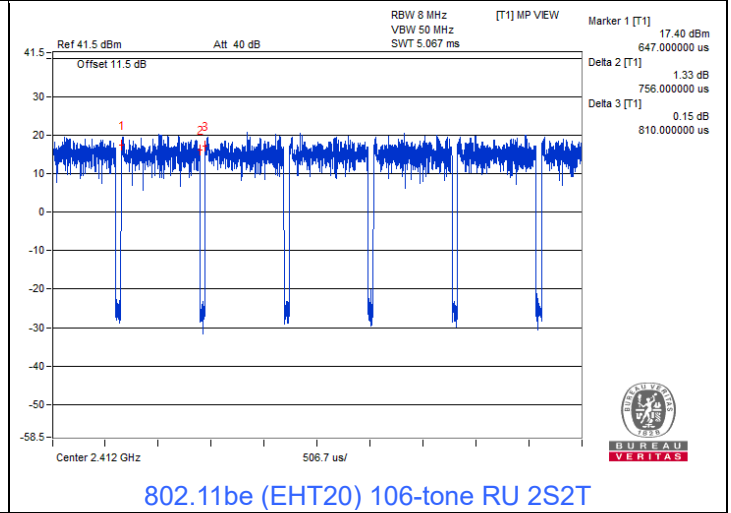
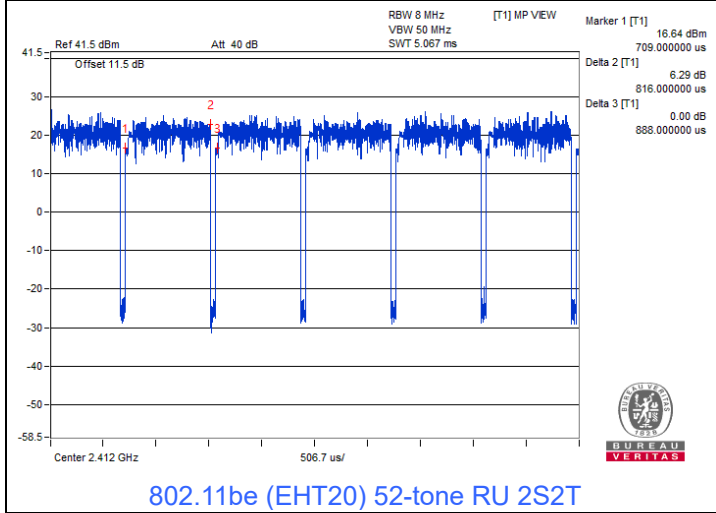
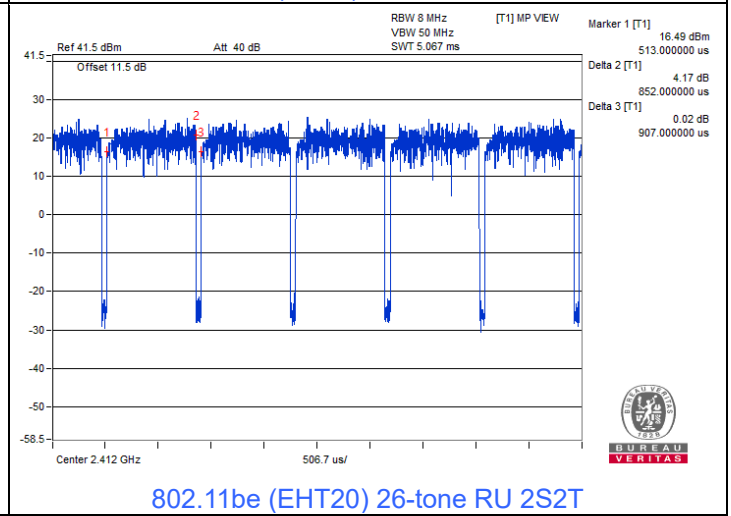
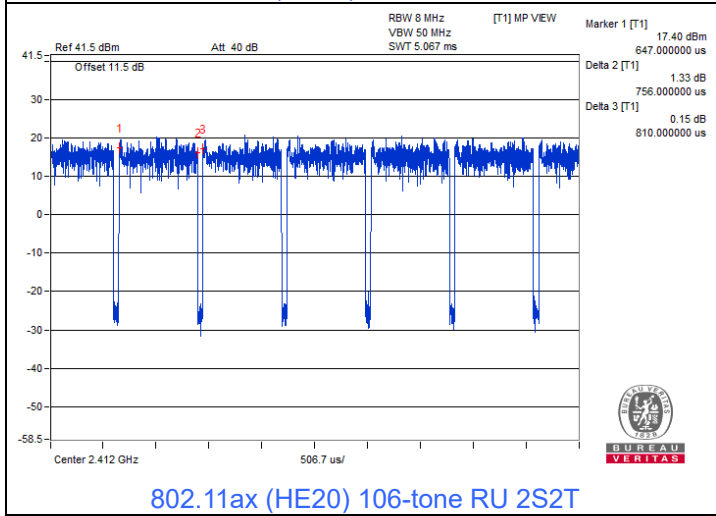
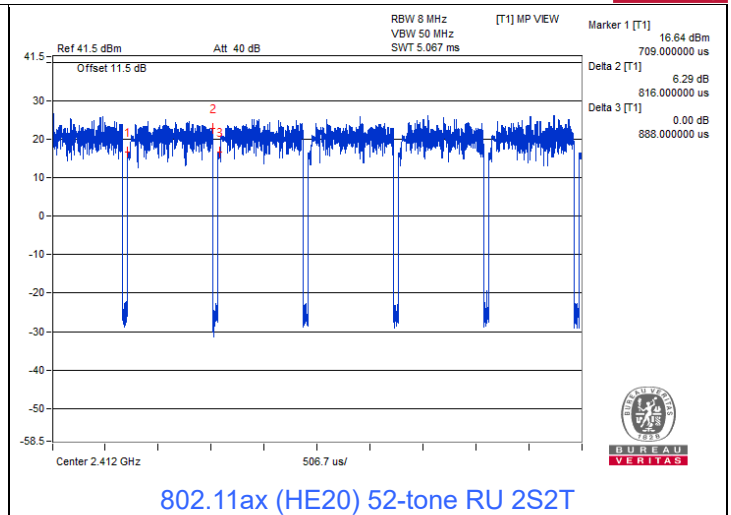
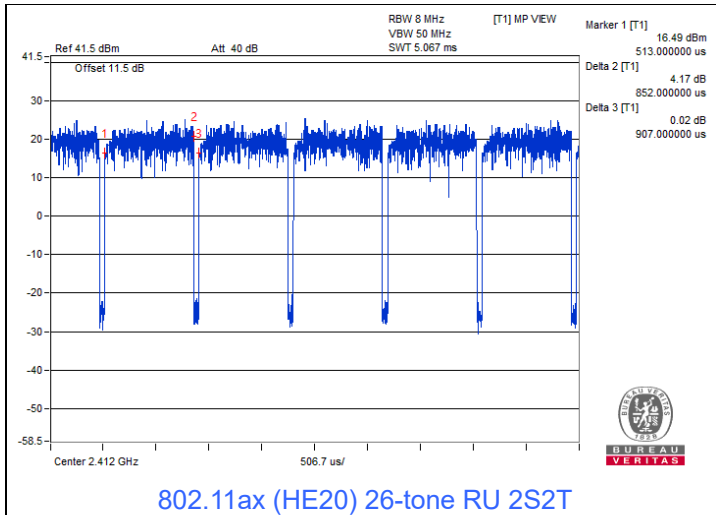
Duty cycle = 0.881 ms / 0.937 ms x 100% = 94.0%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.27 \text{ dB}$

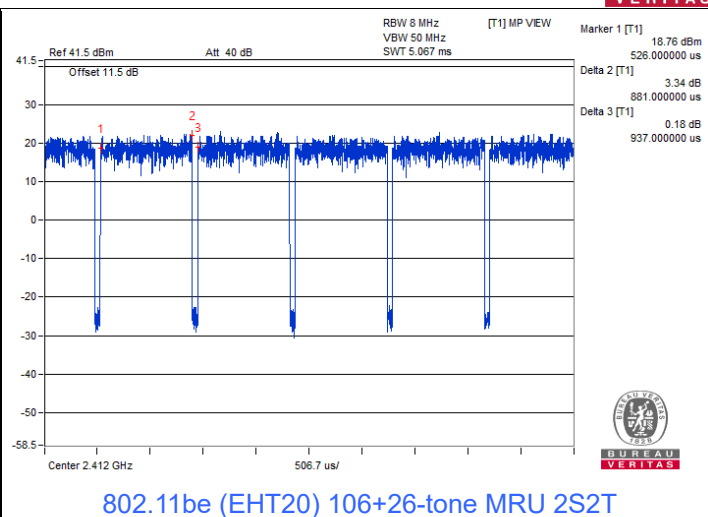
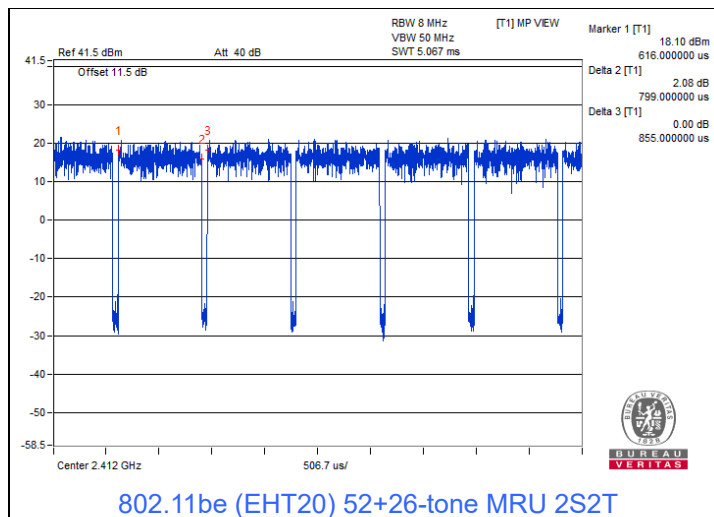




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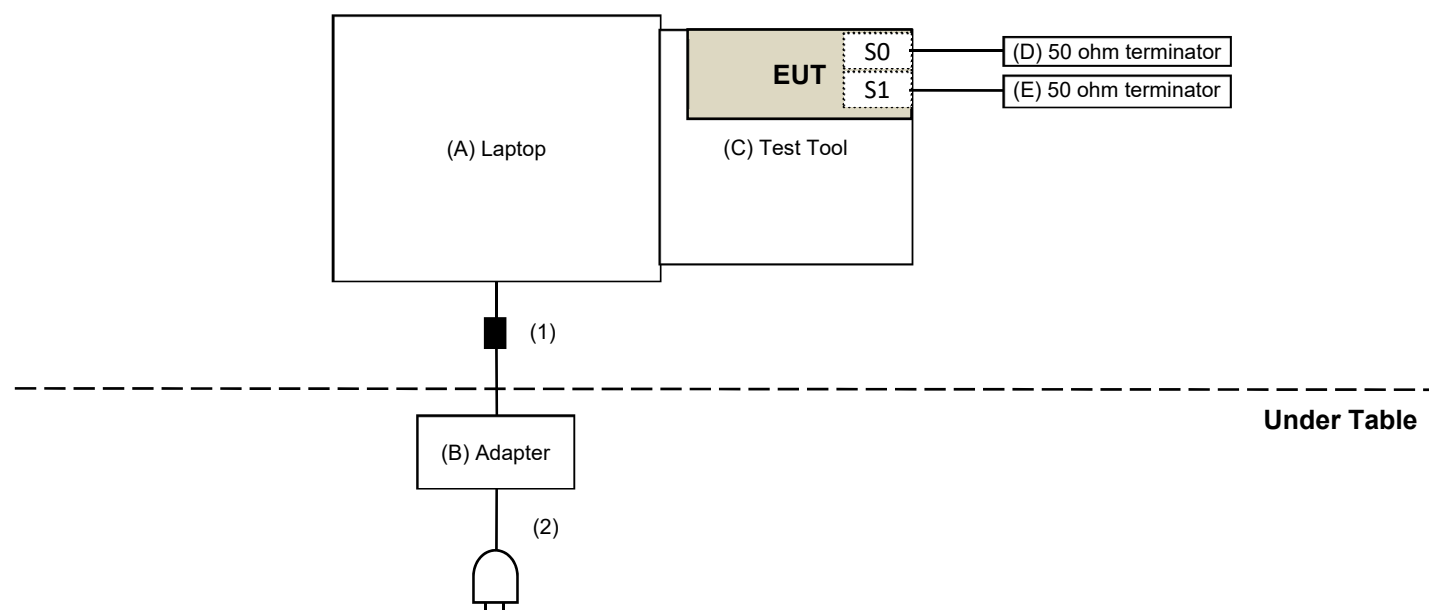


3.6 Test Program Used and Operation Descriptions

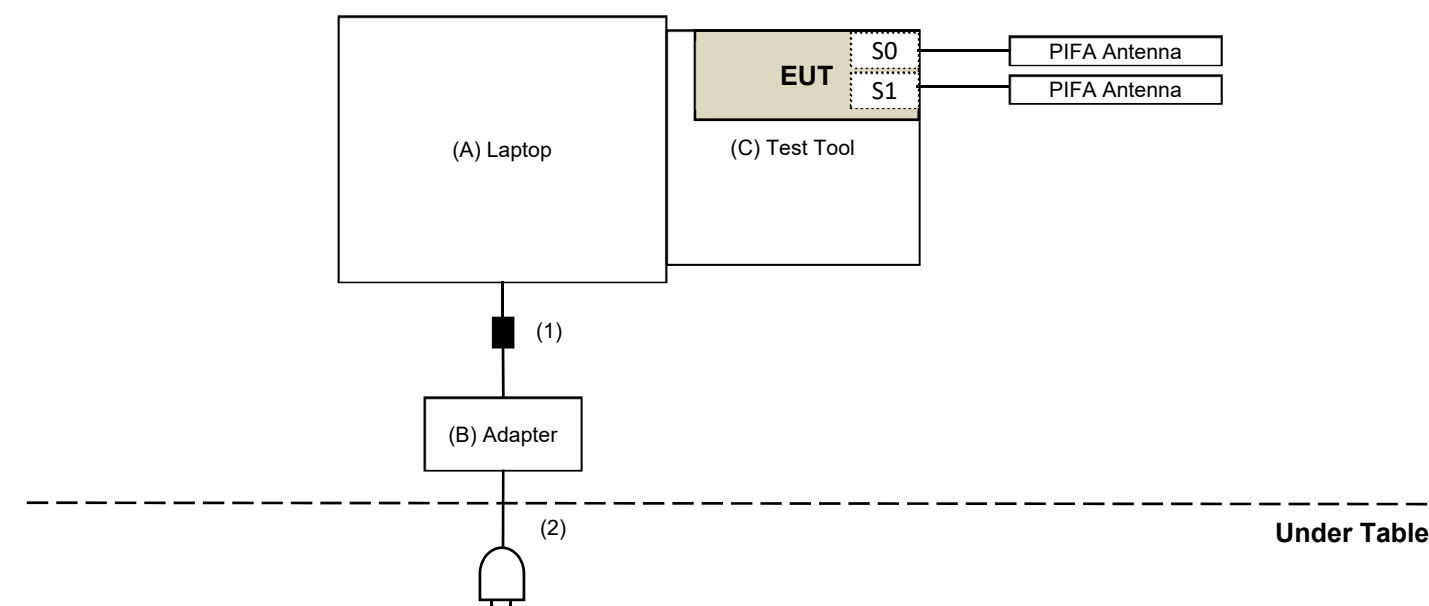
Controlling software (QAtool_V16 (0.0.2.104)) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices

For Unwanted Emission test:



For AC Power Conducted Emission test:



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Laptop	Lenovo	L440	R90FM90G	N/A	Provided by Lab
B	Adapter	Lenovo	ADLX45DLC3A	N/A	N/A	Provided by Lab
C	Test Tool	Mediatek	MTK1849	N/A	N/A	Supplied by applicant
D	50 Ohm terminator	WOKEN	WTER-18S2	N/A	N/A	Provided by Lab
E	50 Ohm terminator	WOKEN	WTER-18S2	N/A	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	DC Cable	1	1.8	No	1	Provided by Lab
2	AC Cable	1	1	No	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 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Pulse Power Sensor Anritsu	MA2411B	1726434	2024/6/7	2025/6/6
RF Power Meter Anritsu	ML2495A	1529002	2024/6/7	2025/6/6

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2025/1/29 ~ 2025/3/20

4.2 Power Spectral Density

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
PXA Signal Analyzer Keysight	N9030A	MY55410176	2024/6/12	2025/6/11
Software	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2025/1/29 ~ 2025/3/20

4.3 6 dB Bandwidth

Refer to section 4.2 to get the tested date and information of the instruments.

4.4 Conducted Out of Band Emissions

Refer to section 4.2 to get the tested date and information of the instruments.

4.5 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance Telegartner	50 ohm	3	2024/11/1	2025/10/31
EMI Test Receiver R&S	ESCS 30	100375	2024/5/20	2025/5/19
Fixed Attenuator STI	STI02-2200-10	005	2024/2/19	2025/2/18
LISN R&S	ESH3-Z5	835239/001	2024/4/3	2025/4/2
		848773/004	2024/10/7	2025/10/6
RF Coaxial Cable JYEBAO	5D-FB	COCCAB-001	2024/2/19	2025/2/18
Software BVADT	BVADT_Cond_V7.3.7.4	N/A	N/A	N/A

Notes:

1. The test was performed in Conduction 1
2. Tested Date: 2024/12/19

4.6 Unwanted Emissions below 1 GHz

Mode A

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
PXA Signal Analyzer Keysight	N9030A	MY55410176	2024/6/12	2025/6/11
Software	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2025/2/13

Mode B

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-406	2024/10/8	2025/10/7
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	N/A	N/A
Fixed Attenuator Mini-Circuits	UNAT-5+	PAD-ATT5-03	2024/2/17	2025/2/16
Loop Antenna TESEQ	HLA 6121	63620	2024/10/17	2025/10/16
MXE EMI Receiver Agilent	N9038A	MY51210202	2024/7/29	2025/7/28
Preamplifier EMCI	EMC330N	980701	2024/2/17	2025/2/16
	EMC001340	980142	2024/2/19	2025/2/18
RF Coaxial Cable mTJ	100100-CFD400LW-200	CFD400-200	2024/2/17	2025/2/16
	100100-CFD400LW-400	CFD400-400	2024/2/17	2025/2/16
	100100-CFD400LW-800	CFD400-800	2024/2/17	2025/2/16
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in 966 Chamber No. 4.
2. Tested Date: 2024/12/19

4.7 Unwanted Emissions above 1 GHz

Mode A

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
PXA Signal Analyzer Keysight	N9030A	MY55410176	2024/6/12	2025/6/11
Software	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2025/1/6 ~ 2025/3/12

Mode B

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn Table Max-Full	MF-7802	MF780208406	N/A	N/A
Fix tool for Boresight antenna tower BV	FBA-01	FBA_SIP01	N/A	N/A
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-406	2024/11/10	2025/11/9
	BBHA 9170	9170-739	2024/11/10	2025/11/9
MXE EMI Receiver Agilent	N9038A	MY50010156	2024/6/5	2025/6/4
Preamplifier EMCI	EMC12630SE	980384	2025/1/14	2026/1/13
	EMC184045SE	980387	2024/8/8	2025/8/7
PXA Signal Analyzer Keysight	N9030B	MY57141948	2024/5/20	2025/5/19
RF Coaxial Cable EMCI	EMC102-KM-KM-1200	160924	2025/1/24	2026/1/23
	EMC102-KM-KM-4000	200214	2025/1/24	2026/1/23
	EMC104-SM-SM-1500	180504	2025/1/18	2026/1/17
	EMC104-SM-SM-2000	180601	2025/1/18	2026/1/17
	EMC104-SM-SM-6000	210201	2025/1/18	2026/1/17
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in 966 Chamber No. 3.
2. Tested Date: 2025/3/21

5 Limits of Test Items

5.1 RF Output Power

For systems using digital modulation in the 2400–2483.5 MHz bands: 1 Watt (30 dBm)

Per KDB 662911 D01 Multiple Transmitter Output Method of conducted output power measurement on IEEE 802.11 devices,

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

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

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

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

5.2 Power Spectral Density

The Maximum of Power Spectral Density Measurement is 8 dBm in any 3 kHz.

5.3 6 dB Bandwidth

The minimum of 6 dB Bandwidth Measurement is 0.5 MHz.

5.4 Conducted Out of Band Emissions

Below 30 dB of the highest emission level of operating band (in 100 kHz Resolution Bandwidth).

5.5 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.

5.6 Unwanted Emissions below 1 GHz

Radiated emissions up to 1 GHz which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 30 dB below the highest level of the desired power:

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).

5.7 Unwanted Emissions above 1 GHz

Radiated emissions above 1 GHz which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 30 dB below the highest level of the desired power:

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

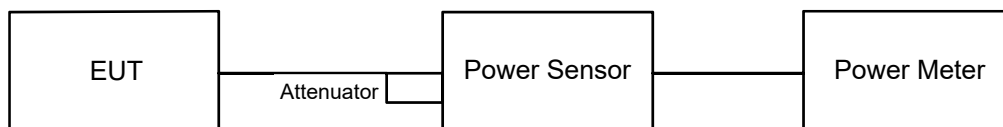
Notes:

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.

6 Test Arrangements

6.1 RF Output Power

6.1.1 Test Setup



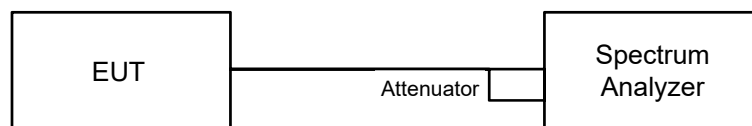
6.1.2 Test Procedure

Average Power:

Average power sensor was used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

6.2 Power Spectral Density

6.2.1 Test Setup



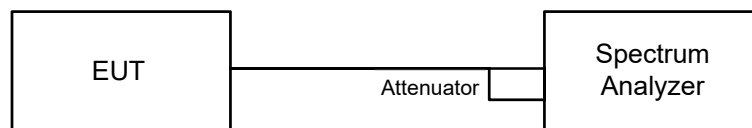
6.2.2 Test Procedure

- a. Measure the duty cycle (x).
- b. Set instrument center frequency to DTS channel center frequency.
- c. Set span to at least 1.5 times the OBW.
- d. Set RBW to: 3 kHz.
- e. Set VBW $\geq 3 \times$ RBW.
- f. Detector = power averaging (RMS) or sample detector (when RMS not available).
- g. Ensure that the number of measurement points in the sweep $\geq 2 \times$ span/RBW.
- h. Sweep time = auto couple.
- i. Do not use sweep triggering. Allow sweep to "free run".
- j. Employ trace averaging (RMS) mode over a minimum of 100 traces.
- k. Use the peak marker function to determine the maximum amplitude level.

Note: If Duty cycle < 98%, Add $10 \log (1/x)$, where x is the duty cycle measured in step (a), to the measured PSD to compute the average PSD during the actual transmission time.

6.3 6 dB Bandwidth

6.3.1 Test Setup

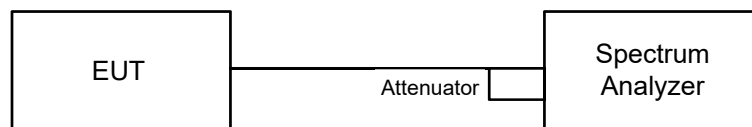


6.3.2 Test Procedure

- Set resolution bandwidth (RBW) = 100 kHz.
- Set the video bandwidth (VBW) $\geq 3 \times$ RBW, Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.4 Conducted Out of Band Emissions

6.4.1 Test Setup



6.4.2 Test Procedure

MEASUREMENT PROCEDURE REF

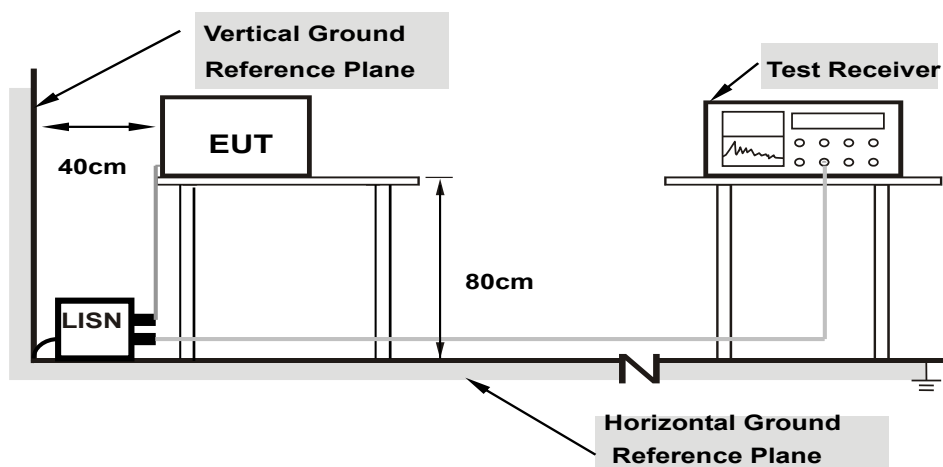
- Set the RBW = 100 kHz.
- Set the VBW ≥ 300 kHz.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

MEASUREMENT PROCEDURE OOB

- Set RBW = 100 kHz.
- Set VBW ≥ 300 kHz.
- Detector = peak.
- Sweep = auto couple.
- Trace Mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level.

6.5 AC Power Conducted Emissions

6.5.1 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).

6.5.2 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.

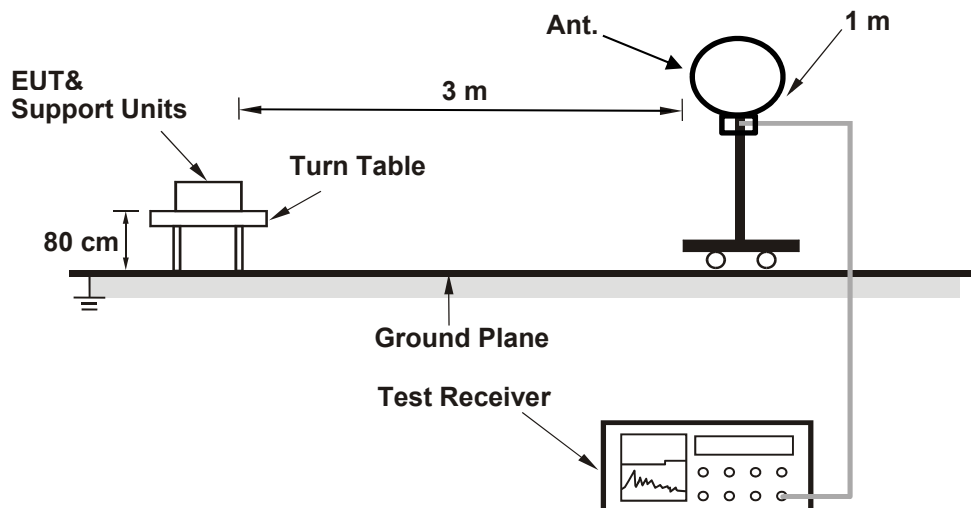
Note: The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz-30 MHz.

6.6 Unwanted Emissions below 1 GHz

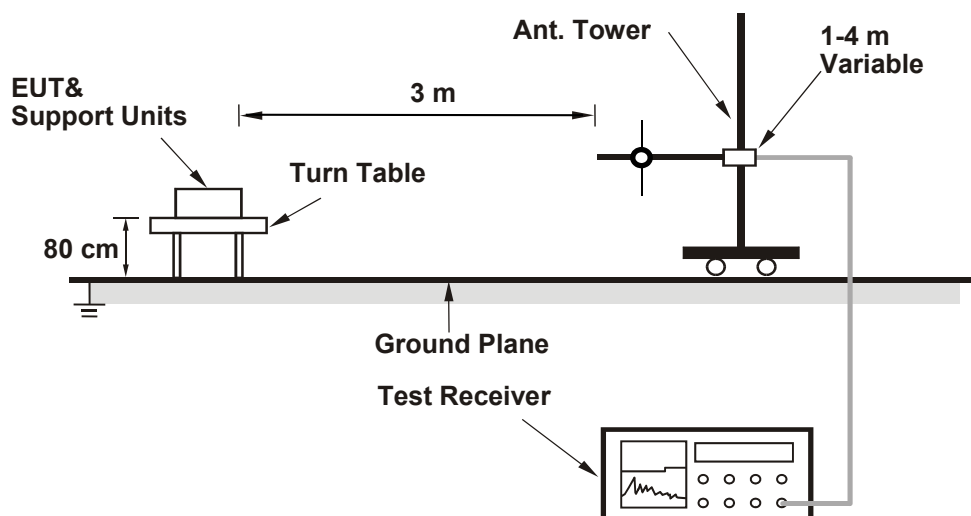
6.6.1 Test Setup

For Radiated Configuration:

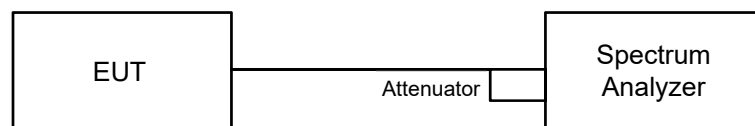
For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



For Conducted Configuration:



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

6.6.2 Test Procedure

Radiated versus Conducted Measurement.

The unwanted emission limits in both the restricted and non-restricted bands are based on antenna-port conducted measurements in conjunction with cabinet emissions tests are permitted to demonstrate compliance.

The following steps was performed:

- a. Cabinet emissions measurements. Radiated measurement was performed to ensure that cabinet emissions are below the emission limits. For the cabinet-emission measurements the antenna was replaced by a termination matching the nominal impedance of the antenna.
- b. Conducted tests was performed using equipment that matches the nominal impedance of the antenna assembly used with the EUT.
- c. EIRP calculation. A value representative of an upper bound on out-of-band antenna gain (in dBi) shall be added to the measured antenna-port conducted emission power to compute EIRP within the specified measurement bandwidth. (For emissions in the restricted bands, additional calculations are required to convert EIRP to field strength at the specified distance.) The upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands or 2 dBi, whichever is greater.
- d. EIRP adjustments for multiple outputs. (Follow the procedures specified in FCC KDB Publication 662911)
- e. For all of Radiation emission test

For Radiated emission below 30 MHz

- e-1.1. 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.
- e-1.2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- e-1.3. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- e-1.4. 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-1.5. 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

- e-2.1. 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.
- e-2.2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- e-2.3. 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.
- e-2.4. 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-2.5. 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.

Radiated versus Conducted Measurement

For Radiated measurement:

The level of unwanted emissions was measured when radiated by the cabinet or structure of the equipment with the antenna connector(s) terminated by a specified load (cabinet radiation).

For Conducted measurement:

The level of unwanted emissions was measured as their power in a specified load (conducted spurious emissions).

Conducted Unwanted Emission Convert Formula

- a. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
- b. EIRP Level (dBm) = Raw Value(dBm) + Correction Factor(dB)
- c. Correction Factor is directional gain, and the composite gain will be used when signal support the correlated signal.
For the out of band spurious the gain for the specific band may have been used rather than the highest gain across all bands.
For the band edge the gain for the specific band may have been used.

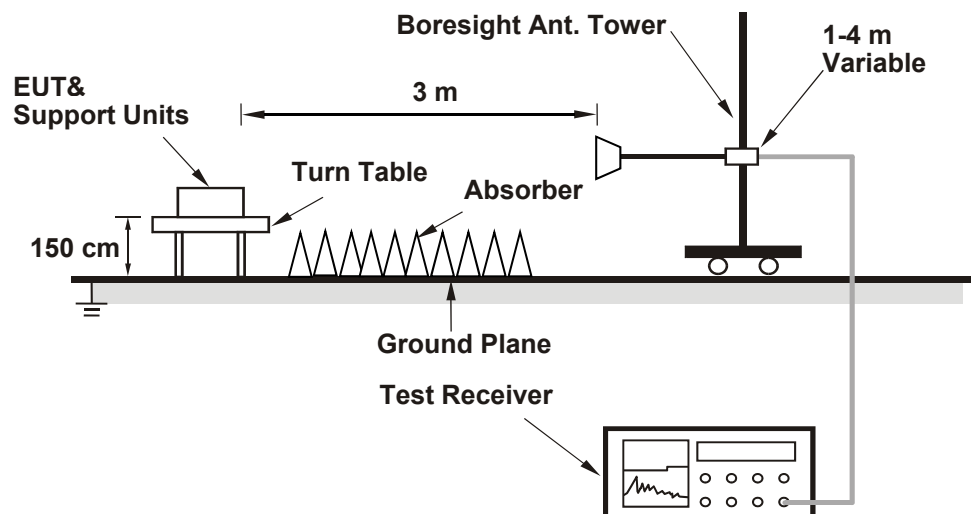
Notes:

1. In restricted bands below 1000 MHz, add upper bound on ground plane reflection:
For frequencies between 30 MHz and 1000 MHz, add 4.7 dB.
2. The conducted emission test was considered some factor to compute test result.

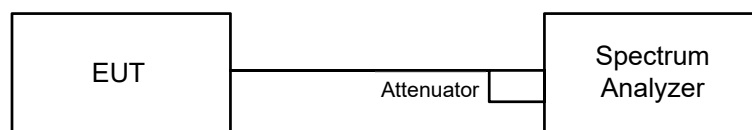
6.7 Unwanted Emissions above 1 GHz

6.7.1 Test Setup

For Radiated Configuration:



For Conducted Configuration:



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

6.7.2 Test Procedure

Radiated versus Conducted Measurement.

The unwanted emission limits in both the restricted and non-restricted bands are based on antenna-port conducted measurements in conjunction with cabinet emissions tests are permitted to demonstrate compliance.

The following steps was performed:

- Cabinet emissions measurements. Radiated measurement was performed to ensure that cabinet emissions are below the emission limits. For the cabinet-emission measurements the antenna was replaced by a termination matching the nominal impedance of the antenna.
- Conducted tests was performed using equipment that matches the nominal impedance of the antenna assembly used with the EUT.
- EIRP calculation. A value representative of an upper bound on out-of-band antenna gain (in dBi) shall be added to the measured antenna-port conducted emission power to compute EIRP within the specified measurement bandwidth. (For emissions in the restricted bands, additional calculations are required to convert EIRP to field strength at the specified distance.) The upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands or 2 dBi, whichever is greater.
- EIRP adjustments for multiple outputs. (Follow the procedures specified in FCC KDB Publication 662911)
- For all of Radiation emission test
 - 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.

- e-3. 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.
- e-4. 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-5. 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:

1. 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.
2. 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.

For Integration method:

- i. For band edge measurement, the integration method is used, the resolution bandwidth of test spectrum analyzer is 100 kHz and the video bandwidth is 300 kHz. Please refer to the following for other instrument settings.
 - ii. Using the detector peak method, refer to ANSI C63.10 section 11.13.3.2, the peak value = peak reading value.
 - iii. Using the detector RMS (power averaging) method, refer to ANSI C63.10 section 11.13.3.3 or 11.13.3.4, the Average value = Average Reading + Duty Cycle Correction Factor. For duty cycle correction factor values, see the Test Signal Duty Cycle section in this report.
3. All modes of operation were investigated and the worst-case emissions are reported.

Radiated versus Conducted Measurement		
<u>For Radiated measurement:</u> The level of unwanted emissions was measured when radiated by the cabinet or structure of the equipment with the antenna connector(s) terminated by a specified load (cabinet radiation). <u>For Conducted measurement:</u> The level of unwanted emissions was measured as their power in a specified load (conducted spurious emissions). <u>For Verified radiated measurement:</u> The level of unwanted emissions was measured when radiated by the cabinet or structure of the equipment with the antenna connector(s) terminated by a specified load (cabinet radiation). <tr style="background-color: #e0e0e0;"> <th style="text-align: center; padding: 5px;">Conducted Unwanted Emission Convert Formula</th> </tr> <tr> <td style="padding: 5px;"> a. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8 d = measurement distance in 3 meters. b. EIRP Level (dBm) = Raw Value(dBm) + Correction Factor(dB). c. Correction Factor is directional gain, and the composite gain will be used when signal support the correlated signal. For the out of band spurious the gain for the specific band may have been used rather than the highest gain across all bands. For the band edge the gain for the specific band may have been used. Note: The conducted emission test was considered some factor to compute test result. </td> </tr>	Conducted Unwanted Emission Convert Formula	a. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8 d = measurement distance in 3 meters. b. EIRP Level (dBm) = Raw Value(dBm) + Correction Factor(dB). c. Correction Factor is directional gain, and the composite gain will be used when signal support the correlated signal. For the out of band spurious the gain for the specific band may have been used rather than the highest gain across all bands. For the band edge the gain for the specific band may have been used. Note: The conducted emission test was considered some factor to compute test result.
Conducted Unwanted Emission Convert Formula		
a. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8 d = measurement distance in 3 meters. b. EIRP Level (dBm) = Raw Value(dBm) + Correction Factor(dB). c. Correction Factor is directional gain, and the composite gain will be used when signal support the correlated signal. For the out of band spurious the gain for the specific band may have been used rather than the highest gain across all bands. For the band edge the gain for the specific band may have been used. Note: The conducted emission test was considered some factor to compute test result.		

7 Test Results of Test Item

7.1 RF Output Power

Input Power:	3.3 Vdc	Environmental Conditions:	23°C, 64% RH	Tested By:	Katina Lu
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802.11b 1TX

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
1	2412	154.525	21.89	29.81	Pass
6	2437	137.721	21.39	29.81	Pass
11	2462	121.06	20.83	29.81	Pass
12	2467	43.152	16.35	29.81	Pass
13	2472	14.962	11.75	29.81	Pass

Note: The antenna gain is 6.19 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (6.19 - 6) = 29.81$ dBm.

802.11g 1TX

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
1	2412	78.163	18.93	29.81	Pass
6	2437	165.577	22.19	29.81	Pass
11	2462	84.723	19.28	29.81	Pass
12	2467	61.66	17.90	29.81	Pass
13	2472	39.355	15.95	29.81	Pass

Note: The antenna gain is 6.19 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (6.19 - 6) = 29.81$ dBm.

VHT20 1S1T

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
1	2412	74.131	18.70	29.81	Pass
6	2437	138.357	21.41	29.81	Pass
11	2462	78.705	18.96	29.81	Pass
12	2467	67.608	18.30	29.81	Pass
13	2472	39.537	15.97	29.81	Pass

Note: The antenna gain is 6.19 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (6.19 - 6) = 29.81$ dBm.

VHT40 1S1T

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
3	2422	54.075	17.33	29.81	Pass
6	2437	81.283	19.10	29.81	Pass
9	2452	62.517	17.96	29.81	Pass
10	2457	62.23	17.94	29.81	Pass
11	2462	54.325	17.35	29.81	Pass

Note: The antenna gain is 6.19 dBi > 6 dBi, so the output power limit shall be reduced to $30-(6.19-6) = 29.81$ dBm.

802.11ax (HE20) 1S1T

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
1	2412	77.268	18.88	29.81	Pass
6	2437	143.219	21.56	29.81	Pass
11	2462	81.846	19.13	29.81	Pass
12	2467	70.307	18.47	29.81	Pass
13	2472	40.738	16.10	29.81	Pass

Note: The antenna gain is 6.19 dBi > 6 dBi, so the output power limit shall be reduced to $30-(6.19-6) = 29.81$ dBm.

802.11ax (HE40) 1S1T

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
3	2422	55.976	17.48	29.81	Pass
6	2437	84.14	19.25	29.81	Pass
9	2452	65.313	18.15	29.81	Pass
10	2457	64.565	18.10	29.81	Pass
11	2462	55.59	17.45	29.81	Pass

Note: The antenna gain is 6.19 dBi > 6 dBi, so the output power limit shall be reduced to $30-(6.19-6) = 29.81$ dBm.

802.11be (EHT20) 1S1T

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
1	2412	79.799	19.02	29.81	Pass
6	2437	148.594	21.72	29.81	Pass
11	2462	83.946	19.24	29.81	Pass
12	2467	72.444	18.60	29.81	Pass
13	2472	42.267	16.26	29.81	Pass

Note: The antenna gain is 6.19 dBi > 6 dBi, so the output power limit shall be reduced to $30-(6.19-6) = 29.81$ dBm.

802.11be (EHT40) 1S1T

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
3	2422	58.345	17.66	29.81	Pass
6	2437	86.298	19.36	29.81	Pass
9	2452	66.834	18.25	29.81	Pass
10	2457	66.374	18.22	29.81	Pass
11	2462	58.076	17.64	29.81	Pass

Note: The antenna gain is 6.19 dBi > 6 dBi, so the output power limit shall be reduced to $30-(6.19-6) = 29.81$ dBm.

802.11ax (HE20) 26-tone RU 1S1T

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
1	2412	54.954	17.40	29.81	Pass
6	2437	142.889	21.55	29.81	Pass
11	2462	69.823	18.44	29.81	Pass
12	2467	52.602	17.21	29.81	Pass
13	2472	11.092	10.45	29.81	Pass

Note: The antenna gain is 6.19 dBi > 6 dBi, so the output power limit shall be reduced to $30-(6.19-6) = 29.81$ dBm.

802.11ax (HE20) 52-tone RU 1S1T

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
1	2412	70.146	18.46	29.81	Pass
6	2437	141.906	21.52	29.81	Pass
11	2462	78.705	18.96	29.81	Pass
12	2467	53.333	17.27	29.81	Pass
13	2472	14.028	11.47	29.81	Pass

Note: The antenna gain is 6.19 dBi > 6 dBi, so the output power limit shall be reduced to $30-(6.19-6) = 29.81$ dBm.

802.11ax (HE20) 106-tone RU 1S1T

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
1	2412	68.234	18.34	29.81	Pass
6	2437	139.959	21.46	29.81	Pass
11	2462	76.384	18.83	29.81	Pass
12	2467	66.374	18.22	29.81	Pass
13	2472	15.136	11.80	29.81	Pass

Note: The antenna gain is 6.19 dBi > 6 dBi, so the output power limit shall be reduced to $30-(6.19-6) = 29.81$ dBm.

802.11be (EHT20) 26-tone RU 1S1T

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
1	2412	57.016	17.56	29.81	Pass
6	2437	147.911	21.70	29.81	Pass
11	2462	72.778	18.62	29.81	Pass
12	2467	54.702	17.38	29.81	Pass
13	2472	11.455	10.59	29.81	Pass

Note: The antenna gain is 6.19 dBi > 6 dBi, so the output power limit shall be reduced to $30-(6.19-6) = 29.81$ dBm.

802.11be (EHT20) 52-tone RU 1S1T

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
1	2412	72.444	18.60	29.81	Pass
6	2437	148.252	21.71	29.81	Pass
11	2462	80.724	19.07	29.81	Pass
12	2467	55.59	17.45	29.81	Pass
13	2472	14.388	11.58	29.81	Pass

Note: The antenna gain is 6.19 dBi > 6 dBi, so the output power limit shall be reduced to $30-(6.19-6) = 29.81$ dBm.

802.11be (EHT20) 106-tone RU 1S1T

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
1	2412	71.285	18.53	29.81	Pass
6	2437	145.211	21.62	29.81	Pass
11	2462	79.433	19.00	29.81	Pass
12	2467	69.343	18.41	29.81	Pass
13	2472	15.56	11.92	29.81	Pass

Note: The antenna gain is 6.19 dBi > 6 dBi, so the output power limit shall be reduced to $30-(6.19-6) = 29.81$ dBm.

802.11be (EHT20) 52+26-tone MRU 1S1T

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
1	2412	71.779	18.56	29.81	Pass
6	2437	145.881	21.64	29.81	Pass
11	2462	79.799	19.02	29.81	Pass
12	2467	70.795	18.50	29.81	Pass
13	2472	36.141	15.58	29.81	Pass

Note: The antenna gain is 6.19 dBi > 6 dBi, so the output power limit shall be reduced to $30-(6.19-6) = 29.81$ dBm.

802.11be (EHT20) 106+26-tone MRU 1S1T

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
1	2412	71.285	18.53	29.81	Pass
6	2437	142.889	21.55	29.81	Pass
11	2462	77.983	18.92	29.81	Pass
12	2467	71.779	18.56	29.81	Pass
13	2472	20.893	13.20	29.81	Pass

Note: The antenna gain is 6.19 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (6.19 - 6) = 29.81$ dBm.

Input Power:	3.3 Vdc	Environmental Conditions:	23°C, 64% RH	Tested By:	Katina Lu
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802.11b 2TX

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	15.98	15.52	75.273	18.77	29.81	Pass
6	2437	16.47	16.06	84.725	19.28	29.81	Pass
11	2462	16.44	15.97	83.592	19.22	29.81	Pass
12	2467	13.08	12.52	38.188	15.82	29.81	Pass
13	2472	6.49	6.07	8.502	9.30	29.81	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 6.19 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (6.19 - 6) = 29.81$ dBm.

802.11g 2TX

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	15.85	15.36	72.815	18.62	29.81	Pass
6	2437	20.03	19.79	195.973	22.92	29.81	Pass
11	2462	16.42	16.02	83.848	19.23	29.81	Pass
12	2467	14.52	14.07	53.841	17.31	29.81	Pass
13	2472	13.33	12.90	41.026	16.13	29.81	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 6.19 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (6.19 - 6) = 29.81$ dBm.

VHT20 2S2T

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	16.71	16.39	90.433	19.56	29.81	Pass
6	2437	20.44	20.20	215.375	23.33	29.81	Pass
11	2462	18.40	18.02	132.57	21.22	29.81	Pass
12	2467	15.49	15.00	67.023	18.26	29.81	Pass
13	2472	14.09	13.76	49.413	16.94	29.81	Pass

Note: The directional gain is 6.19 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (6.19 - 6) = 29.81$ dBm.

VHT40 2S2T

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
3	2422	14.88	14.54	59.206	17.72	29.81	Pass
6	2437	17.90	17.54	118.414	20.73	29.81	Pass
9	2452	16.42	16.09	84.497	19.27	29.81	Pass
10	2457	15.97	15.60	75.844	18.80	29.81	Pass
11	2462	15.36	14.94	65.545	18.17	29.81	Pass

Note: The directional gain is 6.19 dBi > 6 dBi, so the output power limit shall be reduced to $30-(6.19-6) = 29.81$ dBm.

802.11ax (HE20) 2S2T

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	16.83	16.54	93.276	19.70	29.81	Pass
6	2437	20.55	20.40	223.149	23.49	29.81	Pass
11	2462	18.51	18.13	135.971	21.33	29.81	Pass
12	2467	15.64	15.19	69.681	18.43	29.81	Pass
13	2472	14.20	13.93	51.02	17.08	29.81	Pass

Note: The directional gain is 6.19 dBi > 6 dBi, so the output power limit shall be reduced to $30-(6.19-6) = 29.81$ dBm.

802.11ax (HE40) 2S2T

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
3	2422	15.05	14.72	61.637	17.90	29.81	Pass
6	2437	18.04	17.72	122.836	20.89	29.81	Pass
9	2452	16.56	16.23	87.266	19.41	29.81	Pass
10	2457	16.08	15.70	77.704	18.90	29.81	Pass
11	2462	15.52	15.13	68.229	18.34	29.81	Pass

Note: The directional gain is 6.19 dBi > 6 dBi, so the output power limit shall be reduced to $30-(6.19-6) = 29.81$ dBm.

802.11be (EHT20) 2S2T

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	17.02	16.70	97.124	19.87	29.81	Pass
6	2437	20.75	20.51	231.311	23.64	29.81	Pass
11	2462	18.66	18.29	140.904	21.49	29.81	Pass
12	2467	15.82	15.35	72.471	18.60	29.81	Pass
13	2472	14.33	14.05	52.512	17.20	29.81	Pass

Note: The directional gain is 6.19 dBi > 6 dBi, so the output power limit shall be reduced to $30-(6.19-6) = 29.81$ dBm.

802.11be (EHT40) 2S2T

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
3	2422	15.25	14.82	63.835	18.05	29.81	Pass
6	2437	18.21	17.87	127.457	21.05	29.81	Pass
9	2452	16.67	16.36	89.703	19.53	29.81	Pass
10	2457	16.22	15.84	80.25	19.04	29.81	Pass
11	2462	15.71	15.33	71.358	18.53	29.81	Pass

Note: The directional gain is 6.19 dBi > 6 dBi, so the output power limit shall be reduced to $30-(6.19-6) = 29.81$ dBm.

802.11ax (HE20) 26-tone RU 2S2T

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	15.96	15.71	76.685	18.85	29.81	Pass
6	2437	20.37	20.28	215.553	23.34	29.81	Pass
11	2462	16.24	16.02	82.067	19.14	29.81	Pass
12	2467	15.58	14.96	67.474	18.29	29.81	Pass
13	2472	7.86	7.63	11.904	10.76	29.81	Pass

Note: The directional gain is 6.19 dBi > 6 dBi, so the output power limit shall be reduced to $30-(6.19-6) = 29.81$ dBm.

802.11ax (HE20) 52-tone RU 2S2T

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	16.30	15.97	82.195	19.15	29.81	Pass
6	2437	20.24	20.19	210.154	23.23	29.81	Pass
11	2462	16.19	15.85	80.05	19.03	29.81	Pass
12	2467	15.26	14.87	64.264	18.08	29.81	Pass
13	2472	8.59	8.40	14.146	11.51	29.81	Pass

Note: The directional gain is 6.19 dBi > 6 dBi, so the output power limit shall be reduced to $30-(6.19-6) = 29.81$ dBm.

802.11ax (HE20) 106-tone RU 2S2T

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	16.65	16.26	88.505	19.47	29.81	Pass
6	2437	20.17	19.86	200.82	23.03	29.81	Pass
11	2462	17.74	17.30	113.132	20.54	29.81	Pass
12	2467	15.30	14.74	63.67	18.04	29.81	Pass
13	2472	8.90	8.54	14.907	11.73	29.81	Pass

Note: The directional gain is 6.19 dBi > 6 dBi, so the output power limit shall be reduced to $30-(6.19-6) = 29.81$ dBm.

802.11be (EHT20) 26-tone RU 2S2T

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	16.10	15.89	79.553	19.01	29.81	Pass
6	2437	20.56	20.45	224.68	23.52	29.81	Pass
11	2462	16.36	16.12	84.177	19.25	29.81	Pass
12	2467	15.68	15.13	69.566	18.42	29.81	Pass
13	2472	8.06	7.73	12.327	10.91	29.81	Pass

Note: The directional gain is 6.19 dBi > 6 dBi, so the output power limit shall be reduced to $30-(6.19-6) = 29.81$ dBm.

802.11be (EHT20) 52-tone RU 2S2T

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	16.45	16.15	85.367	19.31	29.81	Pass
6	2437	20.41	20.30	217.053	23.37	29.81	Pass
11	2462	16.34	15.95	82.408	19.16	29.81	Pass
12	2467	15.38	15.01	66.21	18.21	29.81	Pass
13	2472	8.74	8.58	14.693	11.67	29.81	Pass

Note: The directional gain is 6.19 dBi > 6 dBi, so the output power limit shall be reduced to $30-(6.19-6) = 29.81$ dBm.

802.11be (EHT20) 106-tone RU 2S2T

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	16.81	16.43	91.928	19.63	29.81	Pass
6	2437	20.34	20.02	208.605	23.19	29.81	Pass
11	2462	17.88	17.42	116.584	20.67	29.81	Pass
12	2467	15.40	14.93	65.791	18.18	29.81	Pass
13	2472	9.09	8.69	15.506	11.90	29.81	Pass

Note: The directional gain is 6.19 dBi > 6 dBi, so the output power limit shall be reduced to $30-(6.19-6) = 29.81$ dBm.

802.11be (EHT20) 52+26-tone MRU 2S2T

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	16.82	16.55	93.27	19.70	29.81	Pass
6	2437	20.41	20.10	212.23	23.27	29.81	Pass
11	2462	18.39	17.88	130.4	21.15	29.81	Pass
12	2467	15.41	15.03	66.596	18.23	29.81	Pass
13	2472	12.81	12.26	35.925	15.55	29.81	Pass

Note: The directional gain is 6.19 dBi > 6 dBi, so the output power limit shall be reduced to $30-(6.19-6) = 29.81$ dBm.

802.11be (EHT20) 106+26-tone MRU 2S2T

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	16.90	16.52	93.852	19.72	29.81	Pass
6	2437	20.37	20.04	209.818	23.22	29.81	Pass
11	2462	18.30	17.96	130.126	21.14	29.81	Pass
12	2467	15.39	15.01	66.29	18.21	29.81	Pass
13	2472	10.01	9.70	19.356	12.87	29.81	Pass

Note: The directional gain is 6.19 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (6.19 - 6) = 29.81$ dBm.

7.2 Power Spectral Density

Input Power:	3.3 Vdc	Environmental Conditions:	23°C, 64% RH	Tested By:	Katina Lu
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802.11b 1TX

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
1	2412	-7.25	7.81	Pass
6	2437	-7.98	7.81	Pass
11	2462	-8.36	7.81	Pass
12	2467	-13.26	7.81	Pass
13	2472	-16.92	7.81	Pass

Note: The antenna gain is 6.19 dBi > 6 dBi, so the power density limit shall be reduced to $8-(6.19-6) = 7.81$ dBm/3kHz.

802.11g 1TX

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/3kHz)	Duty Factor (dB)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
1	2412	-12.61	0.12	-12.49	7.81	Pass
6	2437	-9.16	0.12	-9.04	7.81	Pass
11	2462	-13.21	0.12	-13.09	7.81	Pass
12	2467	-14.39	0.12	-14.27	7.81	Pass
13	2472	-15.61	0.12	-15.49	7.81	Pass

Note: The antenna gain is 6.19 dBi > 6 dBi, so the power density limit shall be reduced to $8-(6.19-6) = 7.81$ dBm/3kHz.

802.11be (EHT20) 1S1T

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/3kHz)	Duty Factor (dB)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
1	2412	-16.36	0.09	-16.27	7.81	Pass
6	2437	-13.54	0.09	-13.45	7.81	Pass
11	2462	-15.07	0.09	-14.98	7.81	Pass
12	2467	-16.82	0.09	-16.73	7.81	Pass
13	2472	-19.17	0.09	-19.08	7.81	Pass

Note: The antenna gain is 6.19 dBi > 6 dBi, so the power density limit shall be reduced to $8-(6.19-6) = 7.81$ dBm/3kHz.

802.11be (EHT40) 1S1T

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/3kHz)	Duty Factor (dB)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
3	2422	-21.13	0.09	-21.04	7.81	Pass
6	2437	-18.46	0.09	-18.37	7.81	Pass
9	2452	-20.46	0.09	-20.37	7.81	Pass
10	2457	-20.71	0.09	-20.62	7.81	Pass
11	2462	-20.63	0.09	-20.54	7.81	Pass

Note: The antenna gain is 6.19 dBi > 6 dBi, so the power density limit shall be reduced to $8-(6.19-6) = 7.81$ dBm/3kHz.

802.11be (EHT20) 26-tone RU 1S1T

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/3kHz)	Duty Factor (dB)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
1	2412	-5.68	0.21	-5.47	7.81	Pass
6	2437	-2.36	0.21	-2.15	7.81	Pass
11	2462	-4.98	0.21	-4.77	7.81	Pass
12	2467	-6.2	0.21	-5.99	7.81	Pass
13	2472	-13.93	0.21	-13.72	7.81	Pass

Note: The antenna gain is 6.19 dBi > 6 dBi, so the power density limit shall be reduced to $8-(6.19-6) = 7.81$ dBm/3kHz.

802.11be (EHT20) 52-tone RU 1S1T

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/3kHz)	Duty Factor (dB)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
1	2412	-8.53	0.24	-8.29	7.81	Pass
6	2437	-5.25	0.24	-5.01	7.81	Pass
11	2462	-8.08	0.24	-7.84	7.81	Pass
12	2467	-8.15	0.24	-7.91	7.81	Pass
13	2472	-15.1	0.24	-14.86	7.81	Pass

Note: The antenna gain is 6.19 dBi > 6 dBi, so the power density limit shall be reduced to $8-(6.19-6) = 7.81$ dBm/3kHz.

802.11be (EHT20) 106-tone RU 1S1T

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/3kHz)	Duty Factor (dB)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
1	2412	-11.59	0.19	-11.40	7.81	Pass
6	2437	-7.35	0.19	-7.16	7.81	Pass
11	2462	-10.75	0.19	-10.56	7.81	Pass
12	2467	-11.4	0.19	-11.21	7.81	Pass
13	2472	-17.43	0.19	-17.24	7.81	Pass

Note: The antenna gain is 6.19 dBi > 6 dBi, so the power density limit shall be reduced to $8-(6.19-6) = 7.81$ dBm/3kHz.

802.11be (EHT20) 52+26-tone MRU 1S1T

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/3kHz)	Duty Factor (dB)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
1	2412	-10.19	0.17	-10.02	7.81	Pass
6	2437	-6.04	0.17	-5.87	7.81	Pass
11	2462	-9.22	0.17	-9.05	7.81	Pass
12	2467	-10.01	0.17	-9.84	7.81	Pass
13	2472	-12.92	0.17	-12.75	7.81	Pass

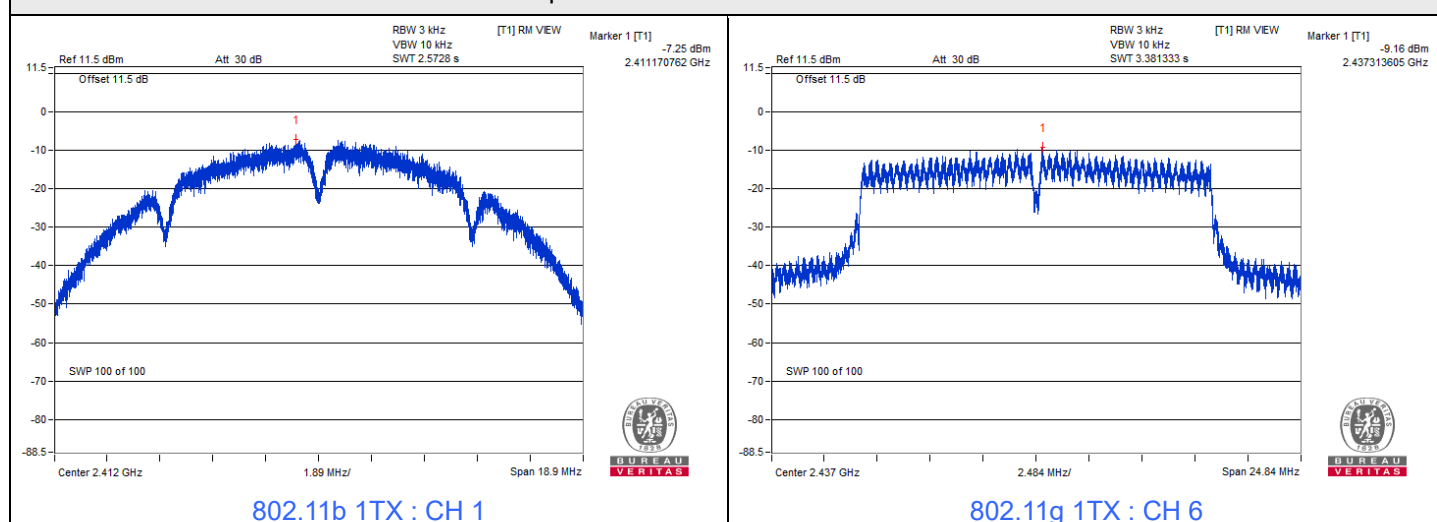
Note: The antenna gain is 6.19 dBi > 6 dBi, so the power density limit shall be reduced to $8-(6.19-6) = 7.81$ dBm/3kHz.

802.11be (EHT20) 106+26-tone MRU 1S1T

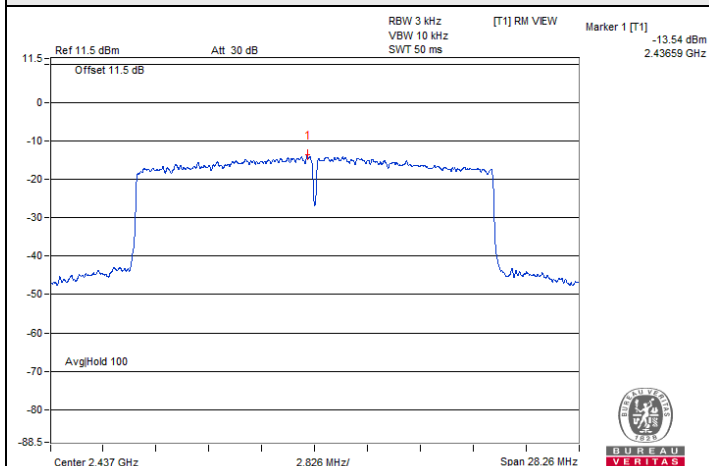
Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/3kHz)	Duty Factor (dB)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
1	2412	-11.6	0.17	-11.43	7.81	Pass
6	2437	-8.21	0.17	-8.04	7.81	Pass
11	2462	-9.41	0.17	-9.24	7.81	Pass
12	2467	-11.29	0.17	-11.12	7.81	Pass
13	2472	-17.15	0.17	-16.98	7.81	Pass

Note: The antenna gain is 6.19 dBi > 6 dBi, so the power density limit shall be reduced to $8-(6.19-6) = 7.81$ dBm/3kHz.

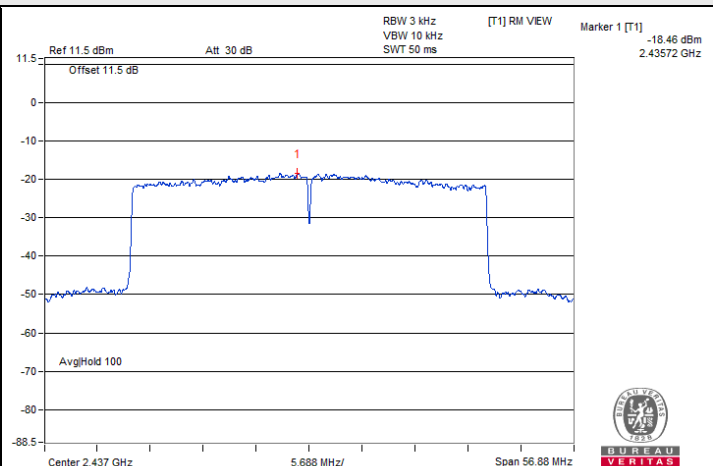
Spectrum Plot of Maximum Value



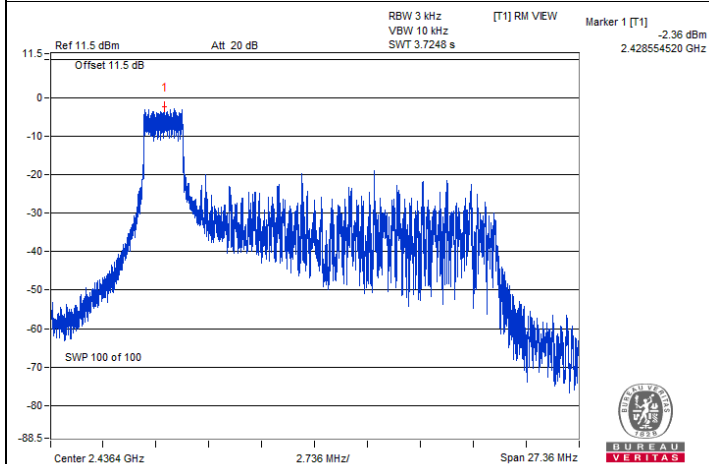
Spectrum Plot of Maximum Value



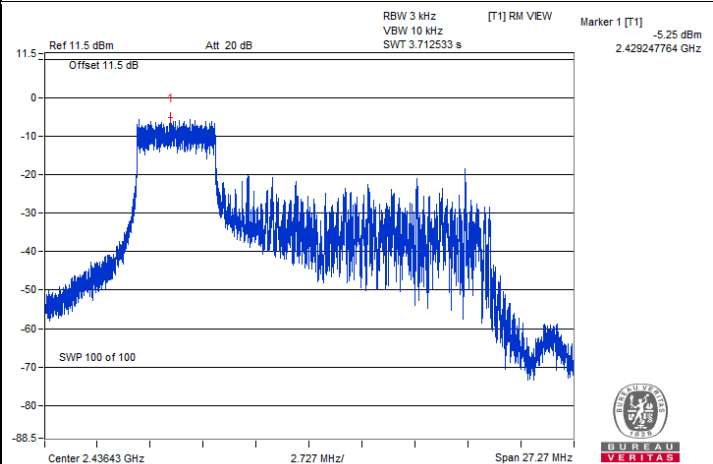
802.11be (EHT20) 1S1T : CH 6



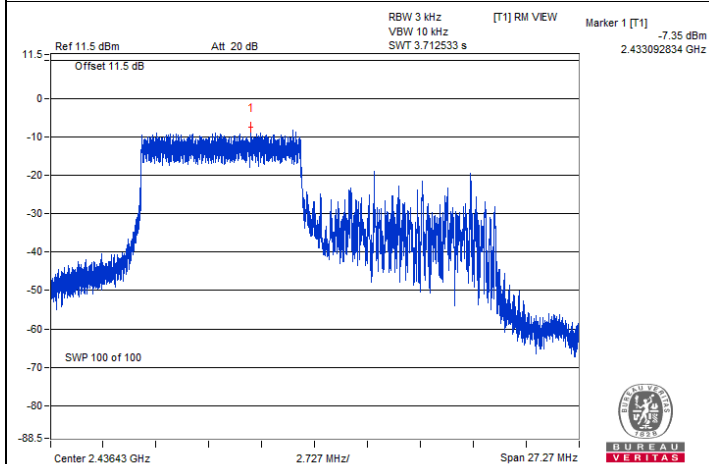
802.11be (EHT40) 1S1T : CH 6



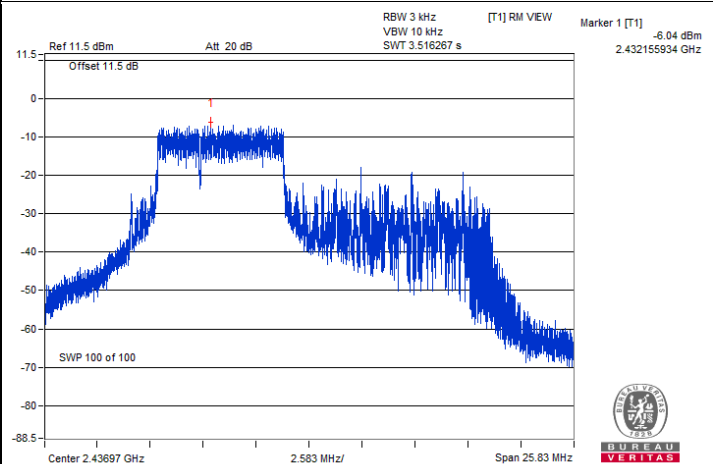
802.11be (EHT20) 26-tone RU 1S1T : CH 6



802.11be (EHT20) 52-tone RU 1S1T : CH 6

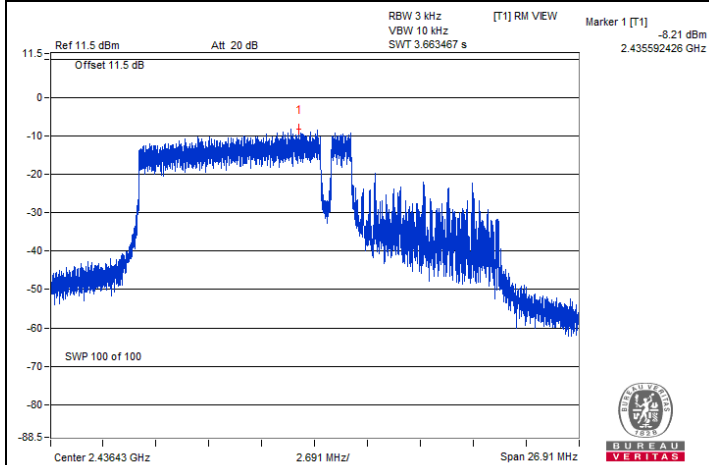


802.11be (EHT20) 106-tone RU 1S1T : CH 6



802.11be (EHT20) 52+26-tone MRU 1S1T : CH 6

Spectrum Plot of Maximum Value



802.11be (EHT20) 106+26-tone MRU 1S1T : CH 6

Input Power:	3.3 Vdc	Environmental Conditions:	23°C, 64% RH	Tested By:	Katina Lu
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802.11b 2TX

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1			
1	2412	-15.76	-16.10	-12.92	4.8	Pass
6	2437	-15.45	-15.69	-12.56	4.8	Pass
11	2462	-15.31	-15.45	-12.37	4.8	Pass
12	2467	-18.36	-18.11	-15.22	4.8	Pass
13	2472	-25.34	-24.85	-22.08	4.8	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. The directional gain is 9.2 dBi > 6 dBi, so the power density limit shall be reduced to $8 - (9.2 - 6) = 4.8$ dBm/3kHz.

802.11g 2TX

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/3kHz)		Duty Factor (dB)	Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1				
1	2412	-18.30	-20.44	0.15	-16.08	4.8	Pass
6	2437	-14.31	-14.43	0.15	-11.21	4.8	Pass
11	2462	-17.59	-19.84	0.15	-15.41	4.8	Pass
12	2467	-19.99	-19.26	0.15	-16.45	4.8	Pass
13	2472	-20.78	-21.63	0.15	-18.02	4.8	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. The directional gain is 9.2 dBi > 6 dBi, so the power density limit shall be reduced to $8 - (9.2 - 6) = 4.8$ dBm/3kHz.

802.11be (EHT20) 2S2T

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/3kHz)		Duty Factor (dB)	Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1				
1	2412	-17.67	-17.78	0.15	-14.56	7.81	Pass
6	2437	-13.39	-13.59	0.15	-10.33	7.81	Pass
11	2462	-16.03	-15.98	0.15	-12.84	7.81	Pass
12	2467	-17.18	-19.45	0.15	-15.01	7.81	Pass
13	2472	-20.43	-20.28	0.15	-17.19	7.81	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. The directional gain is 6.19 dBi > 6 dBi, so the power density limit shall be reduced to $8-(6.19-6) = 7.81$ dBm/3kHz.

802.11be (EHT40) 2S2T

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/3kHz)		Duty Factor (dB)	Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1				
3	2422	-23.61	-23.73	0.16	-20.50	7.81	Pass
6	2437	-20.39	-20.42	0.16	-17.23	7.81	Pass
9	2452	-22.16	-22.12	0.16	-18.97	7.81	Pass
10	2457	-22.79	-22.49	0.16	-19.47	7.81	Pass
11	2462	-23.37	-22.94	0.16	-19.98	7.81	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. The directional gain is 6.19 dBi > 6 dBi, so the power density limit shall be reduced to $8-(6.19-6) = 7.81$ dBm/3kHz.

802.11be (EHT20) 26-tone RU 2S2T

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/3kHz)		Duty Factor (dB)	Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1				
1	2412	-8.77	-8.28	0.27	-5.24	7.81	Pass
6	2437	-3.20	-2.64	0.27	0.37	7.81	Pass
11	2462	-7.79	-6.40	0.27	-3.76	7.81	Pass
12	2467	-9.08	-7.83	0.27	-5.13	7.81	Pass
13	2472	-16.29	-15.68	0.27	-12.69	7.81	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. The directional gain is 6.19 dBi > 6 dBi, so the power density limit shall be reduced to $8-(6.19-6) = 7.81$ dBm/3kHz.

802.11be (EHT20) 52-tone RU 2S2T

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/3kHz)		Duty Factor (dB)	Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1				
1	2412	-10.21	-10.01	0.37	-6.73	7.81	Pass
6	2437	-5.53	-5.22	0.37	-1.99	7.81	Pass
11	2462	-11.23	-9.31	0.37	-6.78	7.81	Pass
12	2467	-11.61	-10.16	0.37	-7.44	7.81	Pass
13	2472	-18.39	-16.94	0.37	-14.22	7.81	Pass

Notes:

- Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
- The directional gain is 6.19 dBi > 6 dBi, so the power density limit shall be reduced to $8-(6.19-6) = 7.81$ dBm/3kHz.

802.11be (EHT20) 106-tone RU 2S2T

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/3kHz)		Duty Factor (dB)	Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1				
1	2412	-11.22	-11.14	0.30	-7.87	7.81	Pass
6	2437	-7.96	-7.89	0.30	-4.61	7.81	Pass
11	2462	-10.72	-10.05	0.30	-7.06	7.81	Pass
12	2467	-13.81	-12.83	0.30	-9.98	7.81	Pass
13	2472	-20.00	-19.16	0.30	-16.25	7.81	Pass

Notes:

- Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
- The directional gain is 6.19 dBi > 6 dBi, so the power density limit shall be reduced to $8-(6.19-6) = 7.81$ dBm/3kHz.

802.11be (EHT20) 52+26-tone MRU 2S2T

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/3kHz)		Duty Factor (dB)	Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1				
1	2412	-10.60	-9.78	0.29	-6.87	7.81	Pass
6	2437	-5.92	-4.09	0.29	-1.61	7.81	Pass
11	2462	-8.99	-8.05	0.29	-5.19	7.81	Pass
12	2467	-12.40	-11.91	0.29	-8.85	7.81	Pass
13	2472	-14.51	-13.88	0.29	-10.88	7.81	Pass

Notes:

- Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
- The directional gain is 6.19 dBi > 6 dBi, so the power density limit shall be reduced to $8-(6.19-6) = 7.81$ dBm/3kHz.

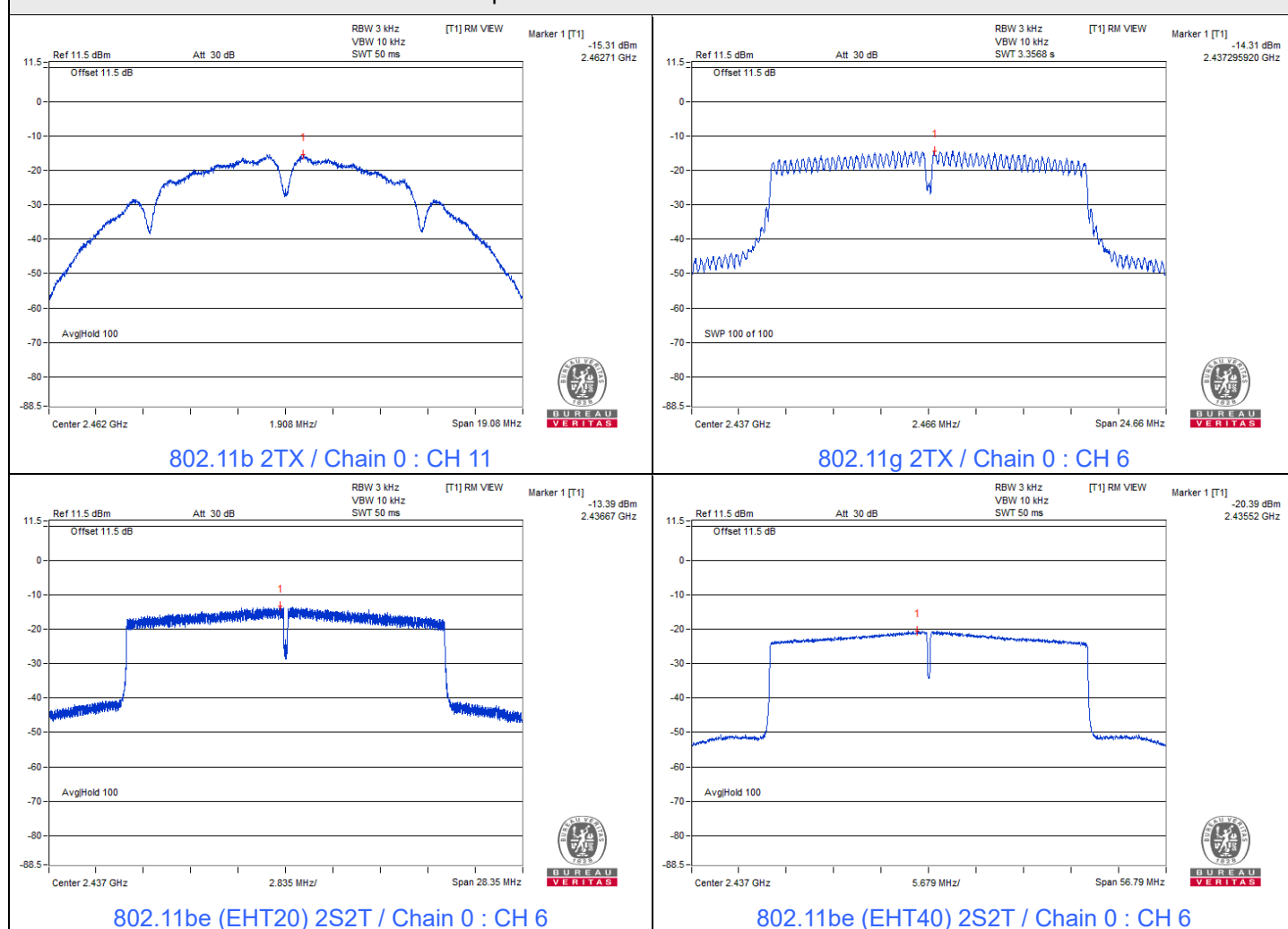
802.11be (EHT20) 106+26-tone MRU 2S2T

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/3kHz)		Duty Factor (dB)	Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1				
1	2412	-12.80	-12.28	0.27	-9.25	7.81	Pass
6	2437	-7.97	-7.85	0.27	-4.63	7.81	Pass
11	2462	-11.15	-10.40	0.27	-7.48	7.81	Pass
12	2467	-13.74	-13.71	0.27	-10.44	7.81	Pass
13	2472	-19.38	-17.47	0.27	-15.04	7.81	Pass

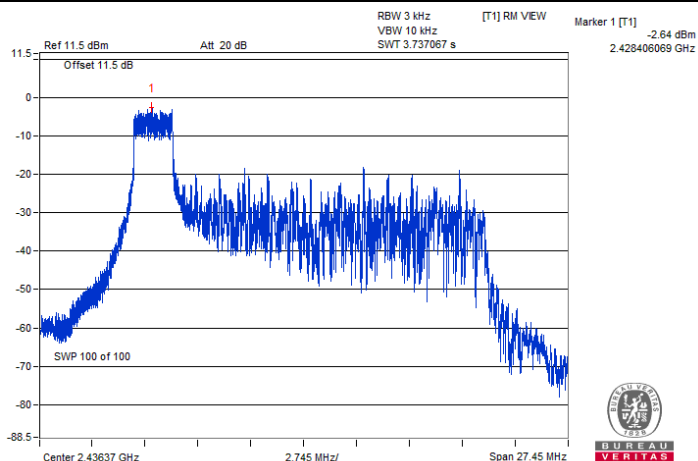
Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. The directional gain is 6.19 dBi > 6 dBi, so the power density limit shall be reduced to $8 - (6.19 - 6) = 7.81$ dBm/3kHz.

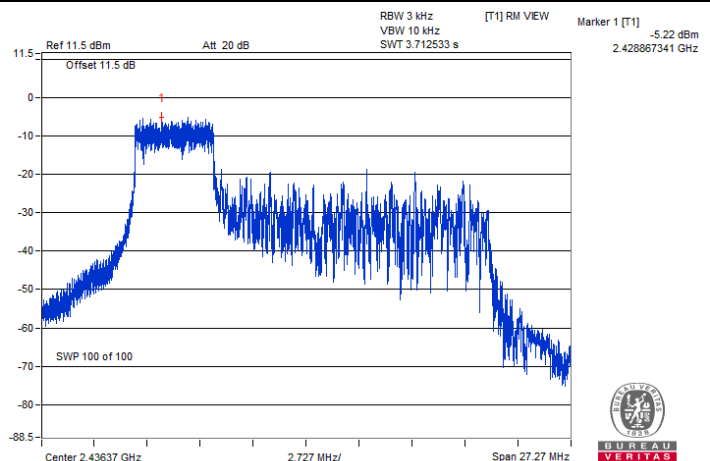
Spectrum Plot of Maximum Value



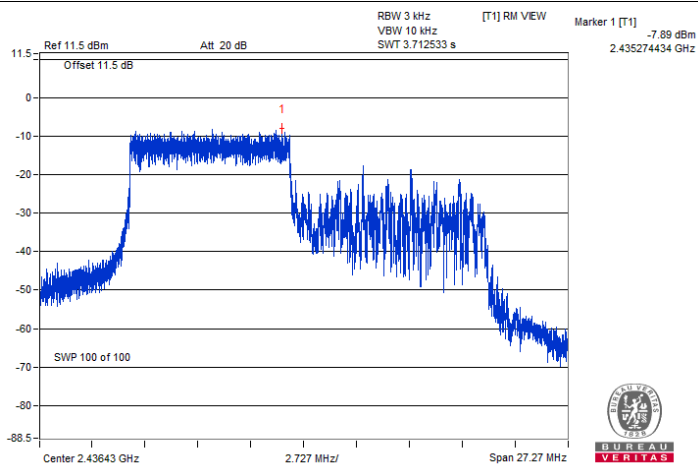
Spectrum Plot of Maximum Value



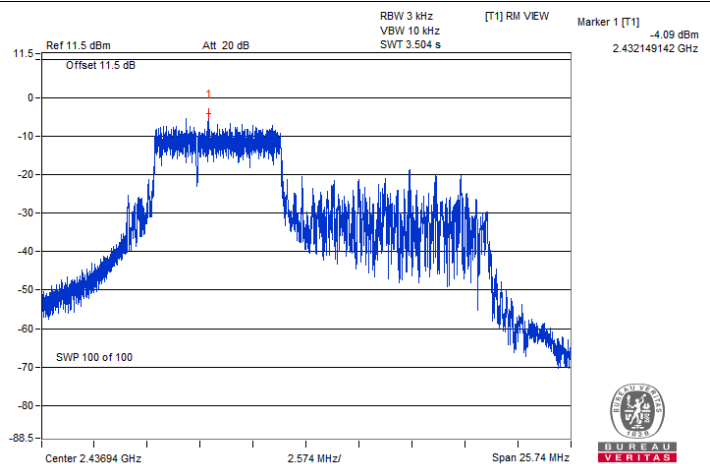
802.11be (EHT20) 26-tone RU 2S2T / Chain 1 : CH 6



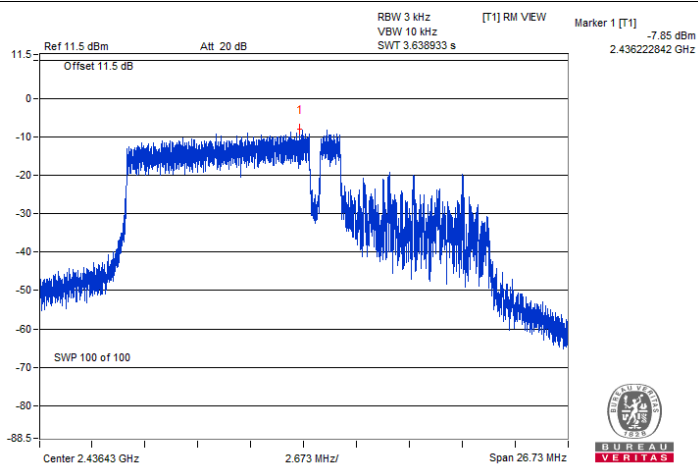
802.11be (EHT20) 52-tone RU 2S2T / Chain 1 : CH 6



802.11be (EHT20) 106-tone RU 2S2T / Chain 1 : CH 6



802.11be (EHT20) 52+26-tone MRU 2S2T / Chain 1 : CH 6



802.11be (EHT20) 106+26-tone MRU 2S2T / Chain 1 : CH 6

7.3 6 dB Bandwidth

Input Power:	3.3 Vdc	Environmental Conditions:	23°C, 64% RH	Tested By:	Katina Lu
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802.11b 1TX

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2412	8.06	0.5	Pass
6	2437	8.07	0.5	Pass
11	2462	8.08	0.5	Pass
12	2467	8.08	0.5	Pass
13	2472	8.08	0.5	Pass

802.11g 1TX

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2412	15.93	0.5	Pass
6	2437	15.66	0.5	Pass
11	2462	15.8	0.5	Pass
12	2467	15.91	0.5	Pass
13	2472	16.08	0.5	Pass

802.11be (EHT20) 1S1T

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2412	18.46	0.5	Pass
6	2437	18.58	0.5	Pass
11	2462	18.48	0.5	Pass
12	2467	18.37	0.5	Pass
13	2472	18.65	0.5	Pass

802.11be (EHT40) 1S1T

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
3	2422	37.5	0.5	Pass
6	2437	37.57	0.5	Pass
9	2452	37.11	0.5	Pass
10	2457	37.3	0.5	Pass
11	2462	37.63	0.5	Pass

802.11be (EHT20) 26-tone RU 1S1T

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2412	2.16	0.5	Pass
6	2437	2.12	0.5	Pass
11	2462	2.14	0.5	Pass
12	2467	2.14	0.5	Pass
13	2472	2.14	0.5	Pass

802.11be (EHT20) 52-tone RU 1S1T

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2412	17.1	0.5	Pass
6	2437	17.01	0.5	Pass
11	2462	17.09	0.5	Pass
12	2467	17.07	0.5	Pass
13	2472	17.07	0.5	Pass

802.11be (EHT20) 106-tone RU 1S1T

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2412	17.17	0.5	Pass
6	2437	17.18	0.5	Pass
11	2462	17.16	0.5	Pass
12	2467	17.16	0.5	Pass
13	2472	17.18	0.5	Pass

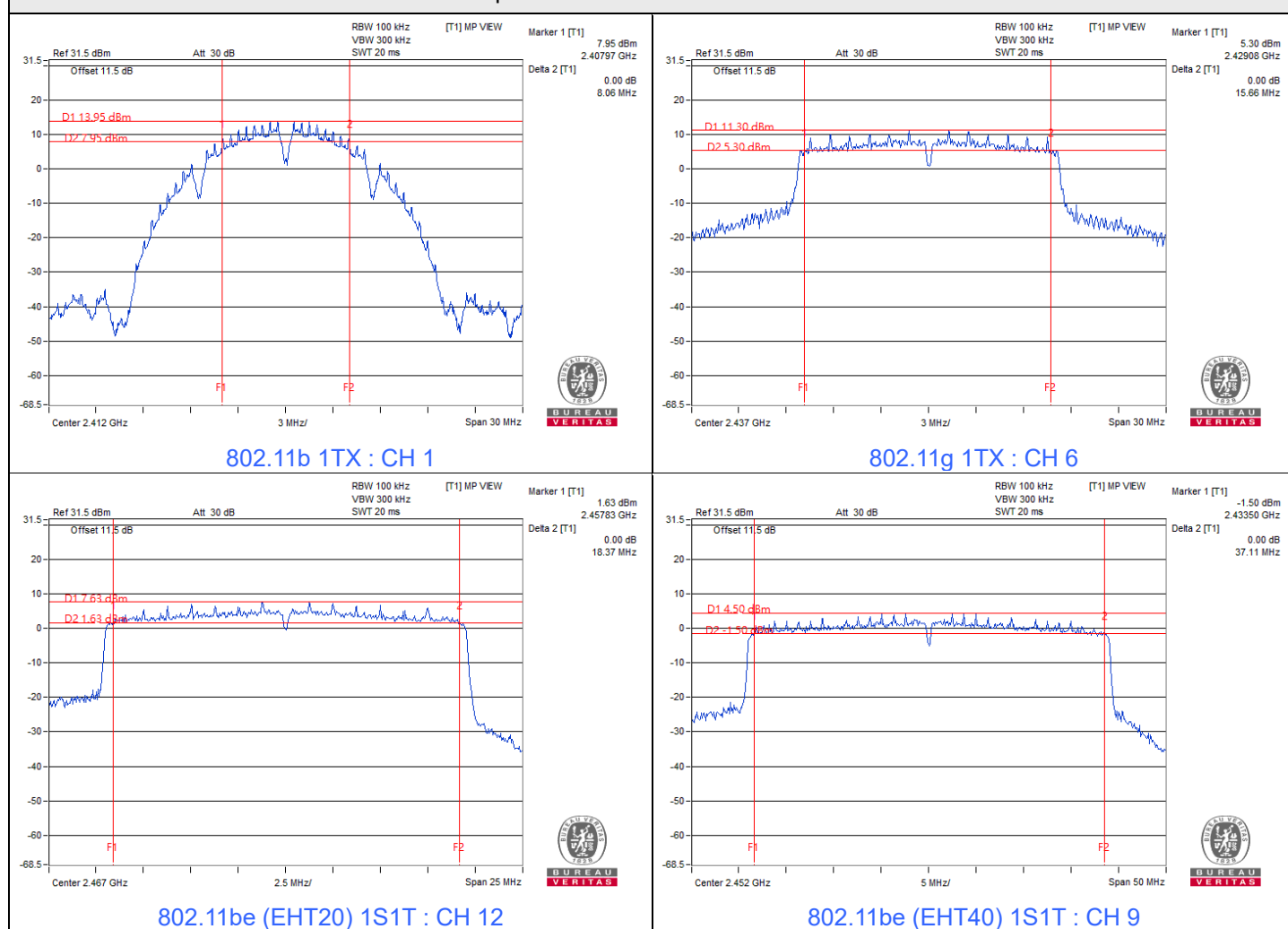
802.11be (EHT20) 52+26-tone MRU 1S1T

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2412	15.14	0.5	Pass
6	2437	15.14	0.5	Pass
11	2462	15.17	0.5	Pass
12	2467	15.15	0.5	Pass
13	2472	15.14	0.5	Pass

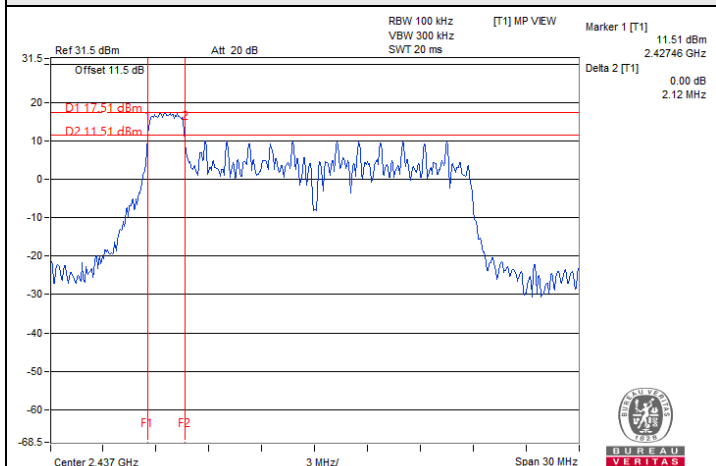
802.11be (EHT20) 106+26-tone MRU 1S1T

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2412	17.08	0.5	Pass
6	2437	17.12	0.5	Pass
11	2462	17.11	0.5	Pass
12	2467	17.12	0.5	Pass
13	2472	17.09	0.5	Pass

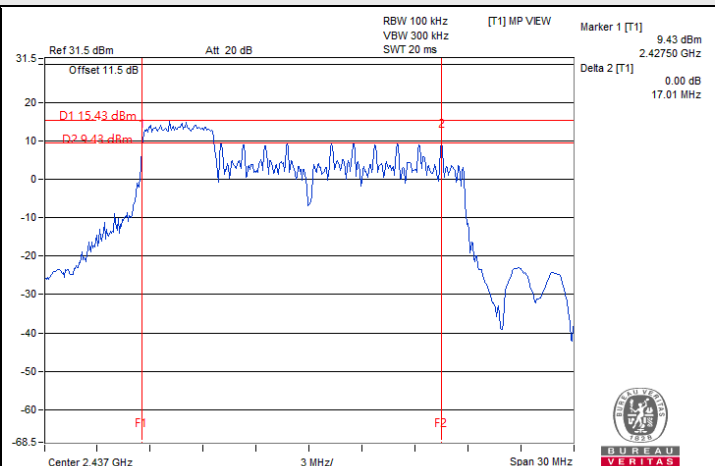
Spectrum Plot of Minimum Value



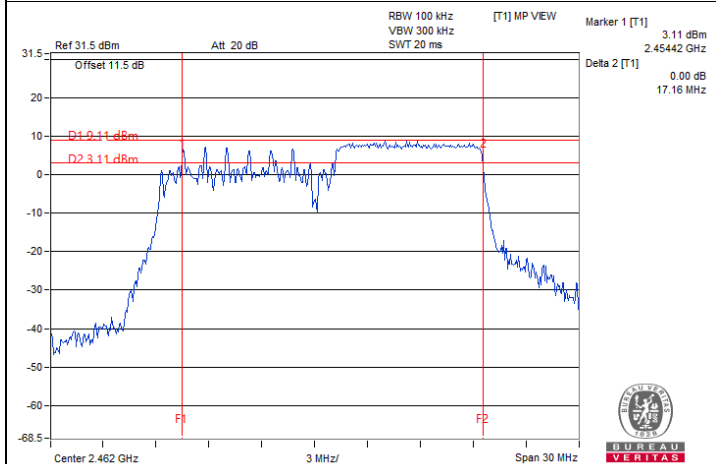
Spectrum Plot of Minimum Value



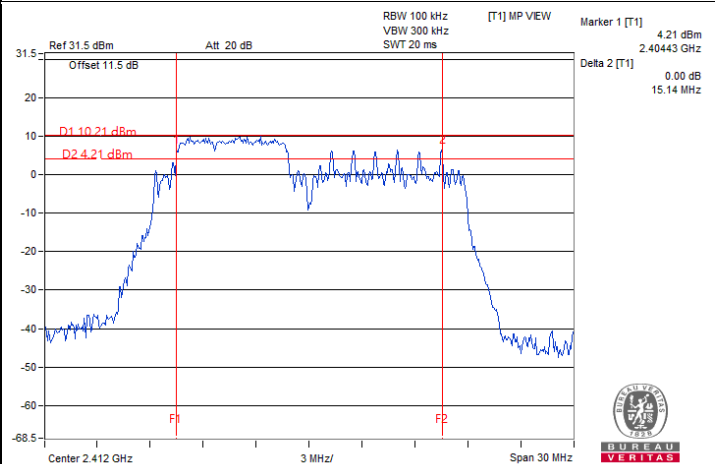
802.11be (EHT20) 26-tone RU 1S1T : CH 6



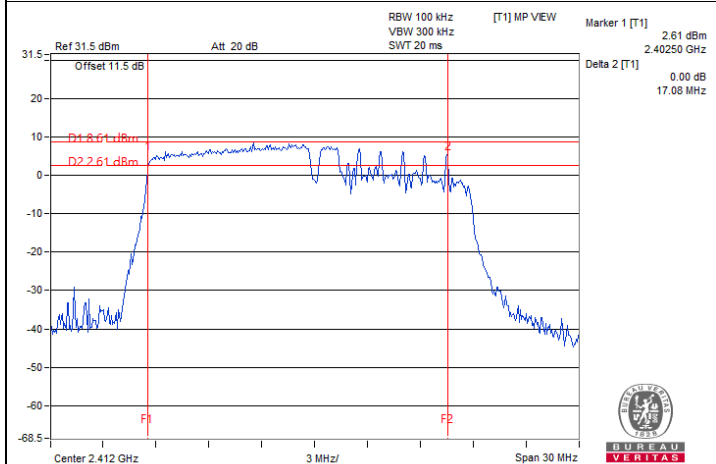
802.11be (EHT20) 52-tone RU 1S1T : CH 6



802.11be (EHT20) 106-tone RU 1S1T : CH 11



802.11be (EHT20) 52+26-tone MRU 1S1T : CH 1



802.11be (EHT20) 106+26-tone MRU 1S1T : CH 1

Input Power:	3.3 Vdc	Environmental Conditions:	23°C, 64% RH	Tested By:	Katina Lu
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802.11b 2TX

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	8.08	8.08	0.5	Pass
6	2437	8.05	8.08	0.5	Pass
11	2462	8.09	8.08	0.5	Pass
12	2467	8.09	8.07	0.5	Pass
13	2472	8.09	8.09	0.5	Pass

802.11g 2TX

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	15.93	16.45	0.5	Pass
6	2437	15.48	16.32	0.5	Pass
11	2462	15.76	16.45	0.5	Pass
12	2467	16.26	16.31	0.5	Pass
13	2472	16.31	16.32	0.5	Pass

802.11be (EHT20) 2S2T

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	18.28	18.64	0.5	Pass
6	2437	18.74	18.84	0.5	Pass
11	2462	18.60	18.73	0.5	Pass
12	2467	18.45	18.64	0.5	Pass
13	2472	18.68	18.84	0.5	Pass

802.11be (EHT40) 2S2T

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
3	2422	37.23	37.75	0.5	Pass
6	2437	37.65	37.30	0.5	Pass
9	2452	37.17	37.17	0.5	Pass
10	2457	37.56	37.63	0.5	Pass
11	2462	37.62	37.80	0.5	Pass

802.11be (EHT20) 26-tone RU 2S2T

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	2.12	2.14	0.5	Pass
6	2437	2.15	2.14	0.5	Pass
11	2462	2.12	2.14	0.5	Pass
12	2467	2.14	2.14	0.5	Pass
13	2472	2.13	2.10	0.5	Pass

802.11be (EHT20) 52-tone RU 2S2T

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	17.09	17.06	0.5	Pass
6	2437	17.03	17.05	0.5	Pass
11	2462	17.09	17.09	0.5	Pass
12	2467	17.10	17.10	0.5	Pass
13	2472	17.07	17.04	0.5	Pass

802.11be (EHT20) 106-tone RU 2S2T

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	17.17	17.15	0.5	Pass
6	2437	17.18	17.17	0.5	Pass
11	2462	17.15	17.17	0.5	Pass
12	2467	17.15	17.18	0.5	Pass
13	2472	17.16	17.16	0.5	Pass

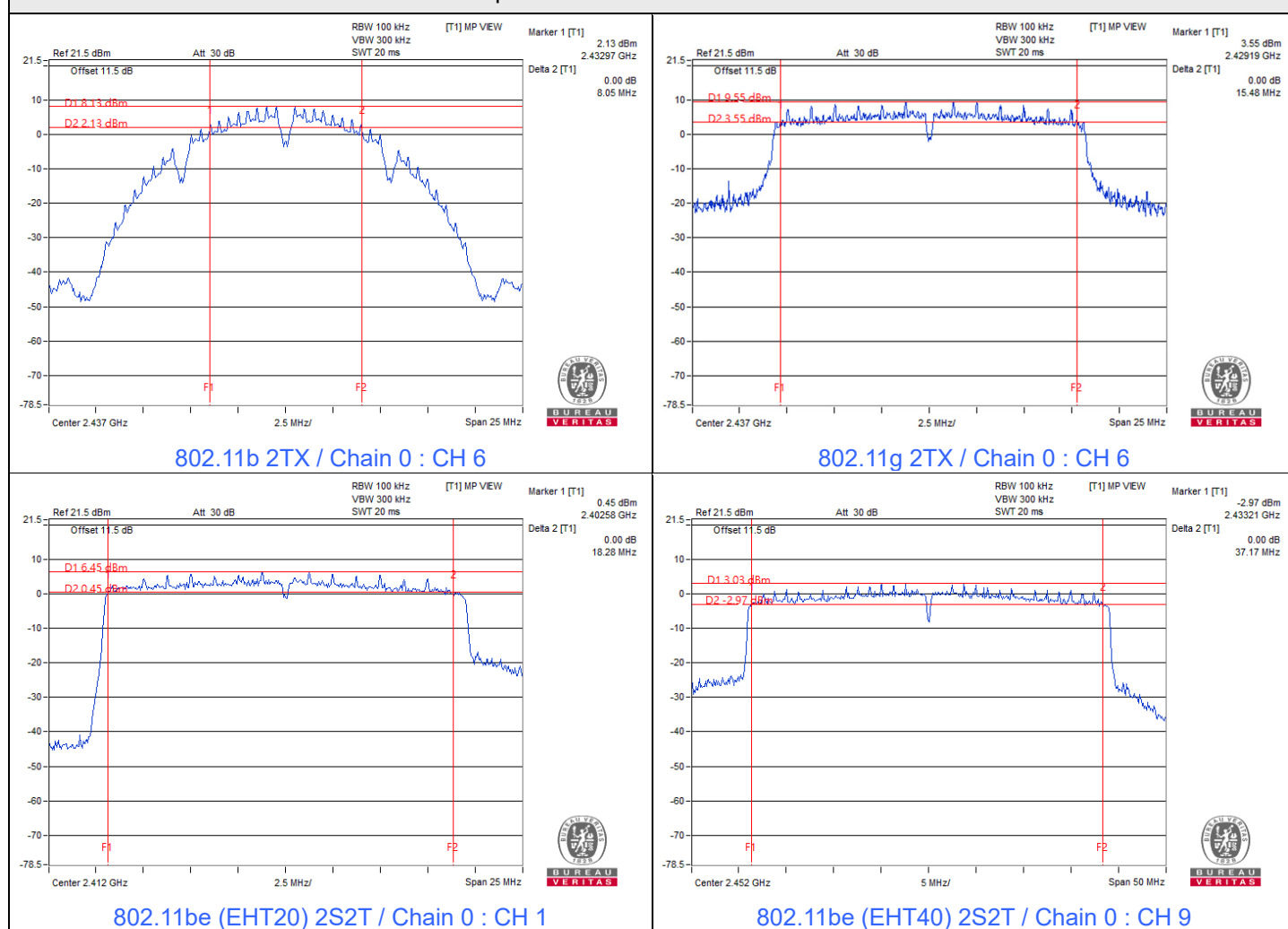
802.11be (EHT20) 52+26-tone MRU 2S2T

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	15.14	15.15	0.5	Pass
6	2437	15.14	15.15	0.5	Pass
11	2462	15.16	15.13	0.5	Pass
12	2467	15.14	15.15	0.5	Pass
13	2472	15.15	15.15	0.5	Pass

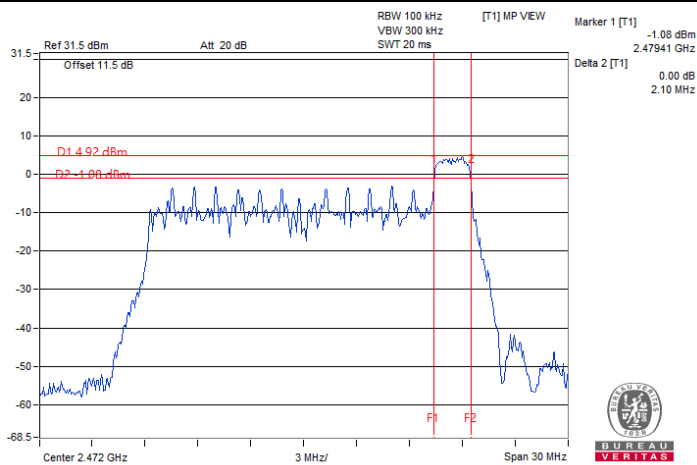
802.11be (EHT20) 106+26-tone MRU 2S2T

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	17.12	17.14	0.5	Pass
6	2437	17.10	17.13	0.5	Pass
11	2462	17.05	17.03	0.5	Pass
12	2467	17.13	17.09	0.5	Pass
13	2472	17.07	17.12	0.5	Pass

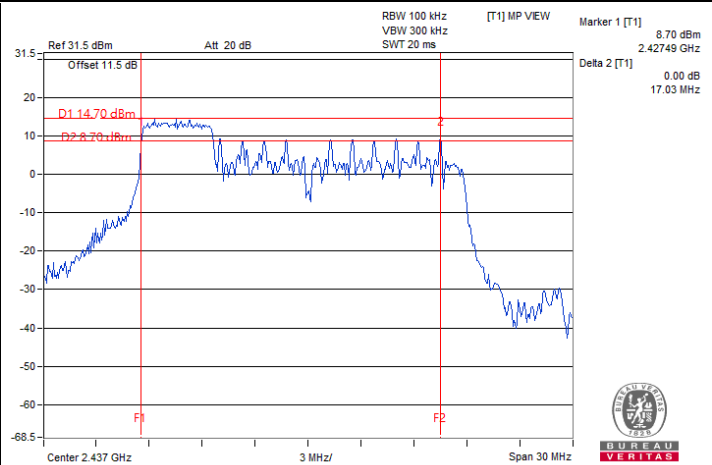
Spectrum Plot of Minimum Value



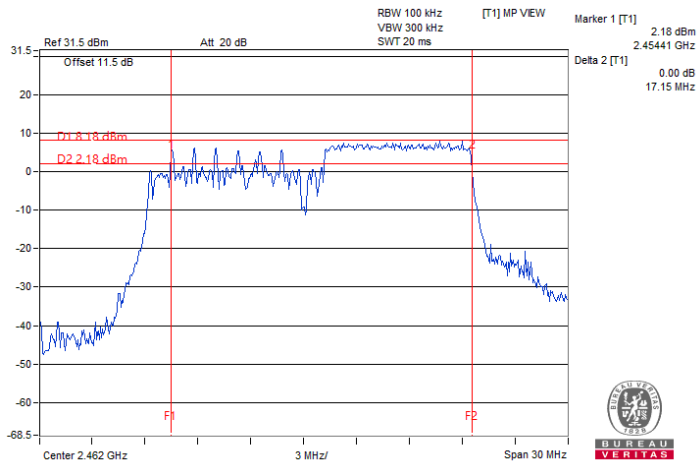
Spectrum Plot of Minimum Value



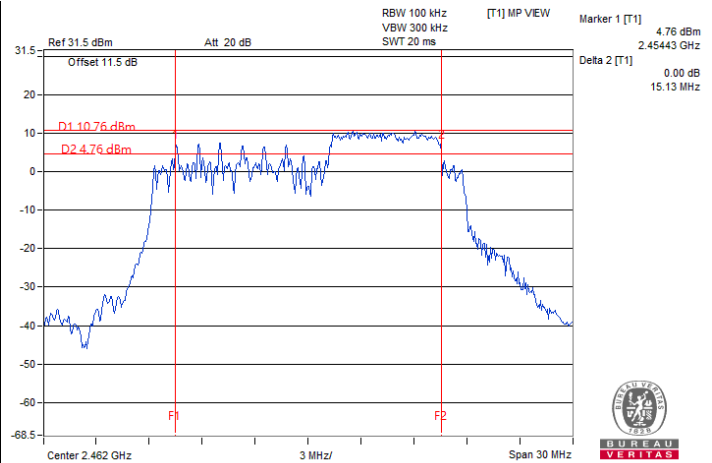
802.11be (EHT20) 26-tone RU 2S2T / Chain 1 : CH 13



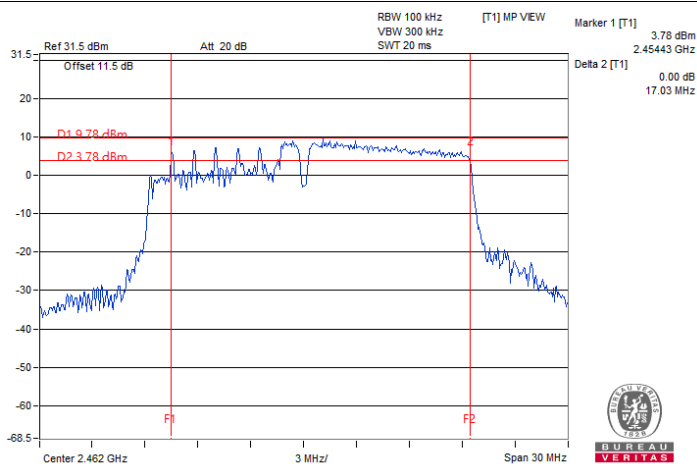
802.11be (EHT20) 52-tone RU 2S2T / Chain 0 : CH 6



802.11be (EHT20) 106-tone RU 2S2T / Chain 0 : CH 11



802.11be (EHT20) 52+26-tone MRU 2S2T / Chain 1 : CH 11

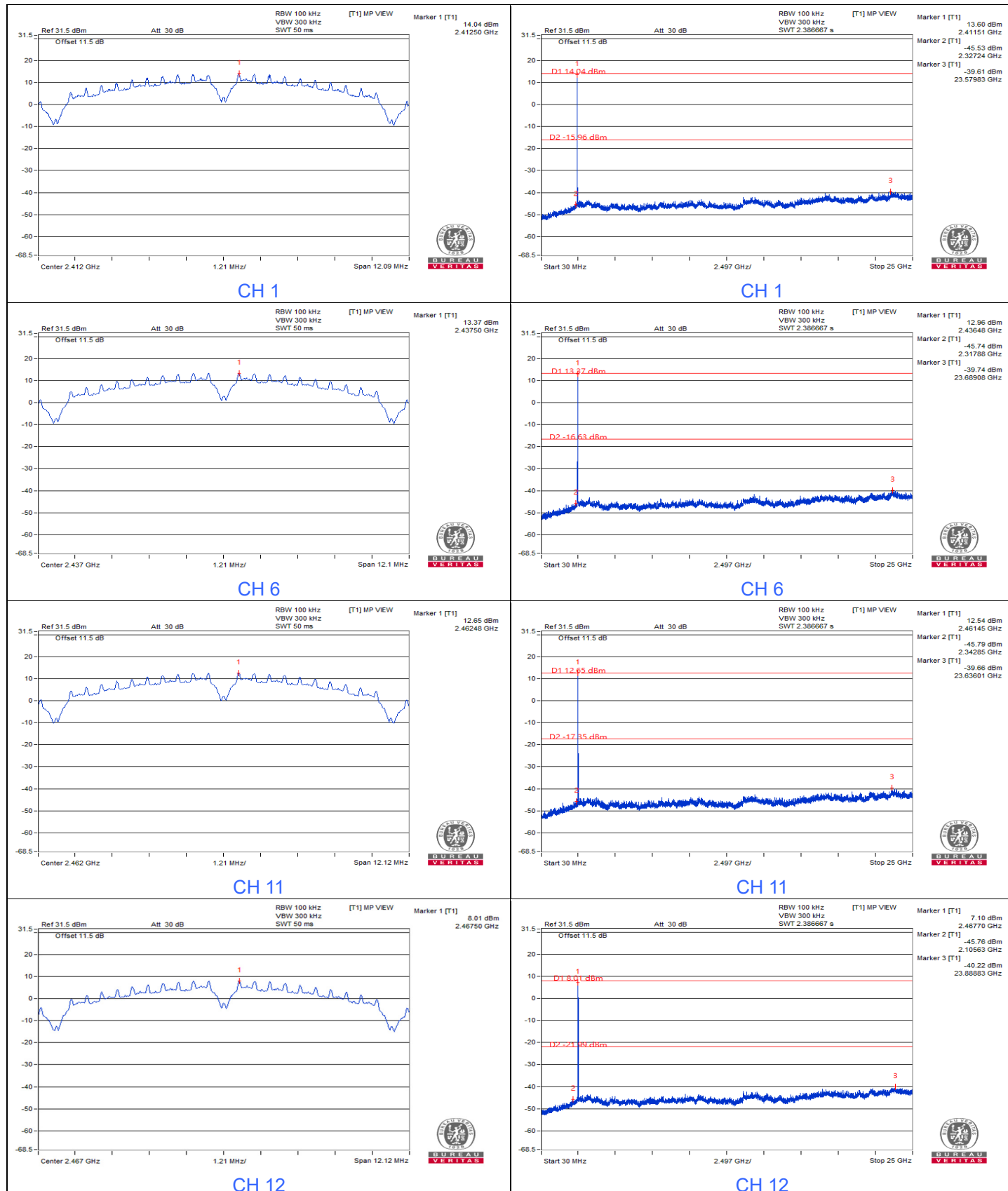


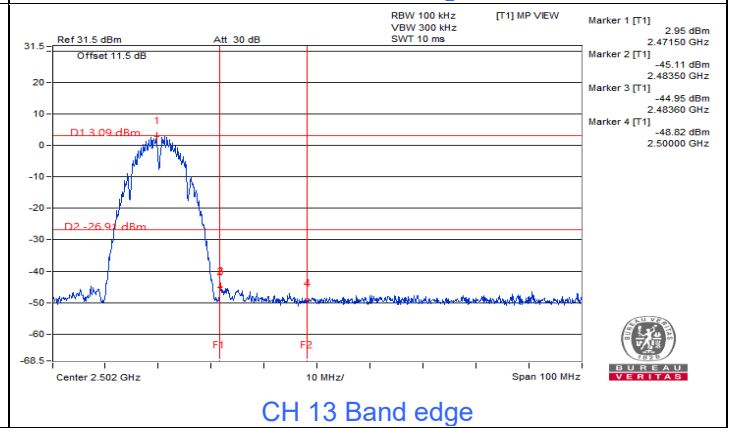
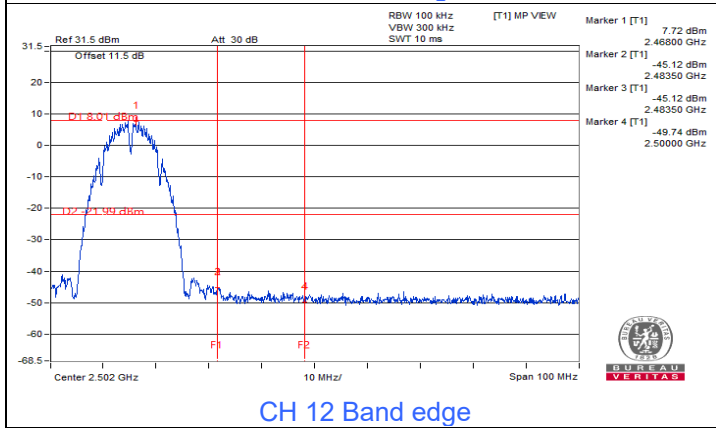
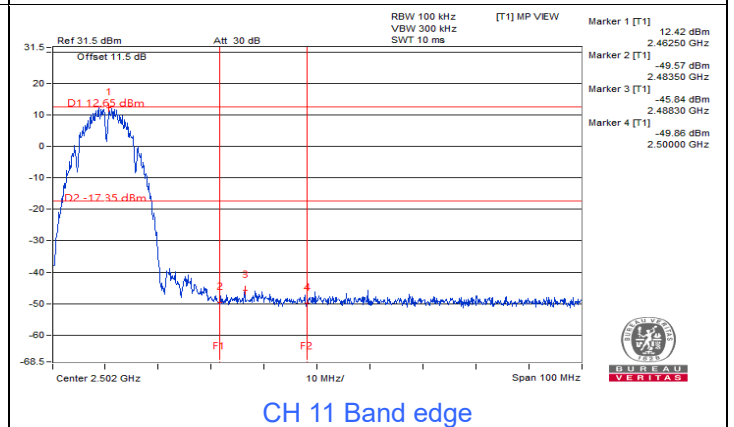
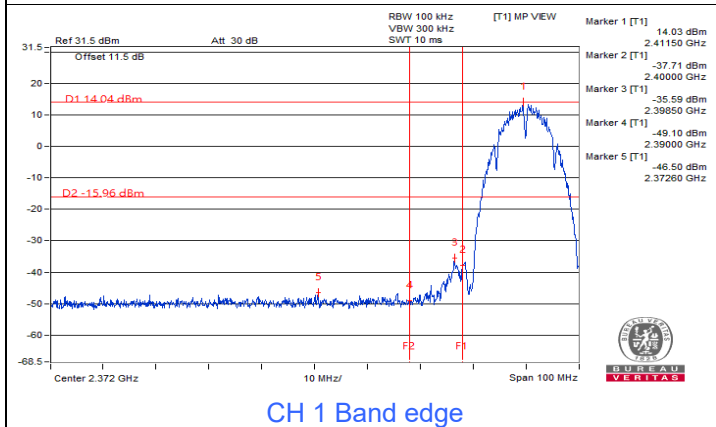
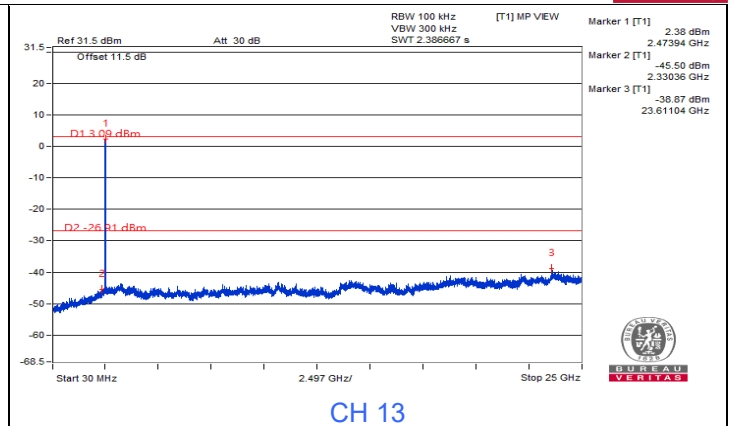
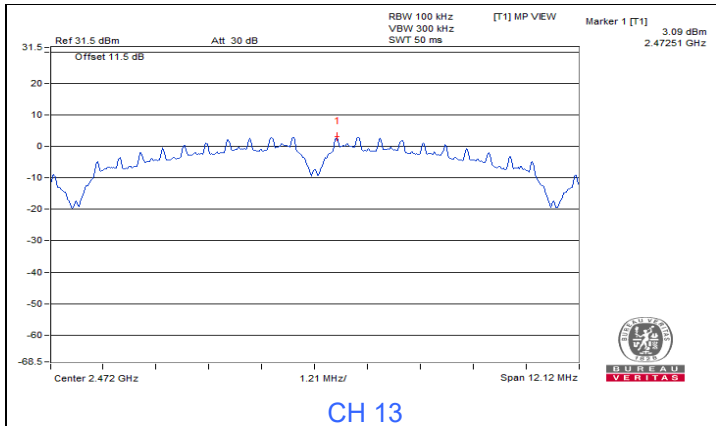
802.11be (EHT20) 106+26-tone MRU 2S2T / Chain 1 : CH 11

7.4 Conducted Out of Band Emissions

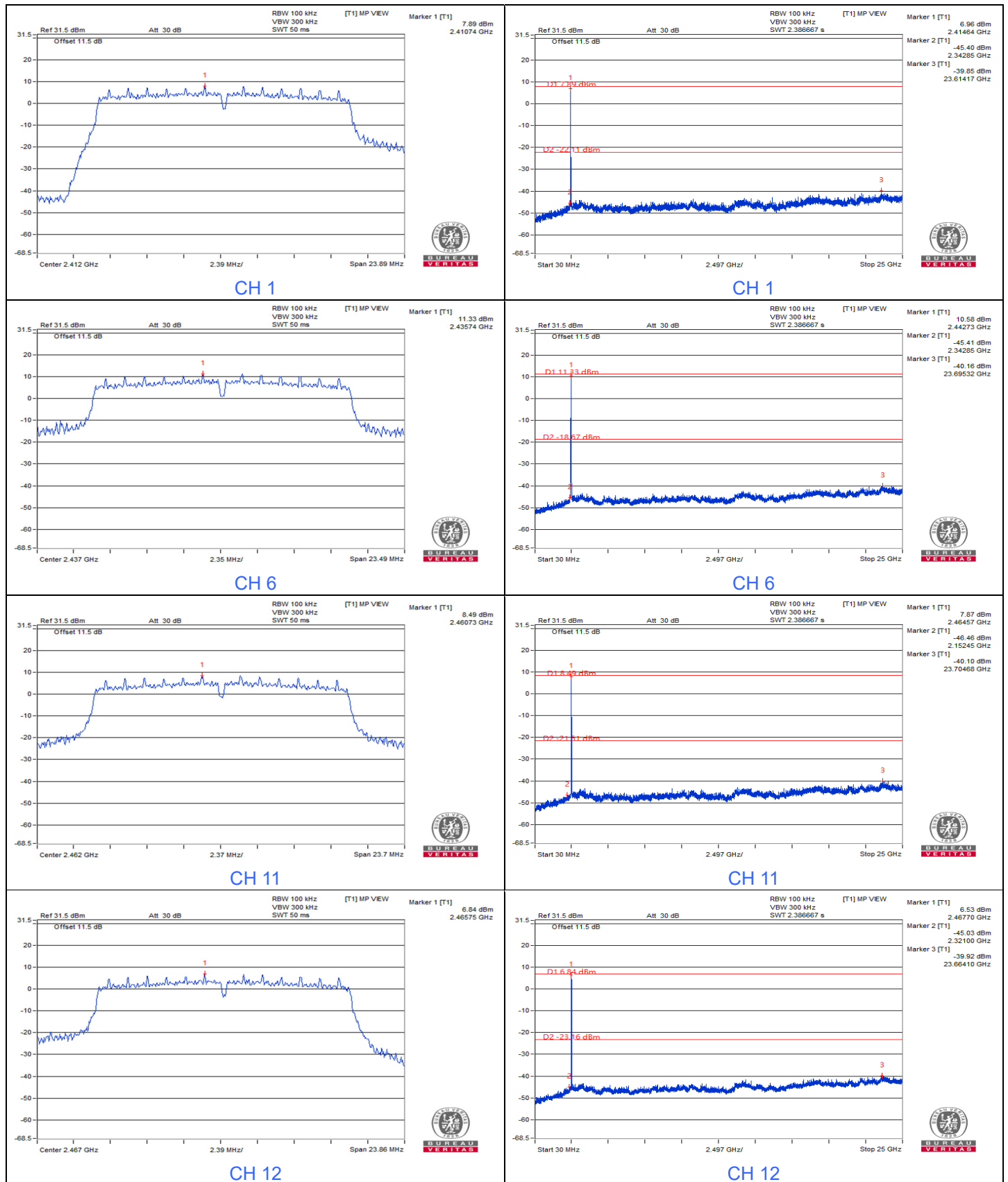
Input Power:	3.3 Vdc	Environmental Conditions:	23°C, 64% RH	Tested By:	Katina Lu
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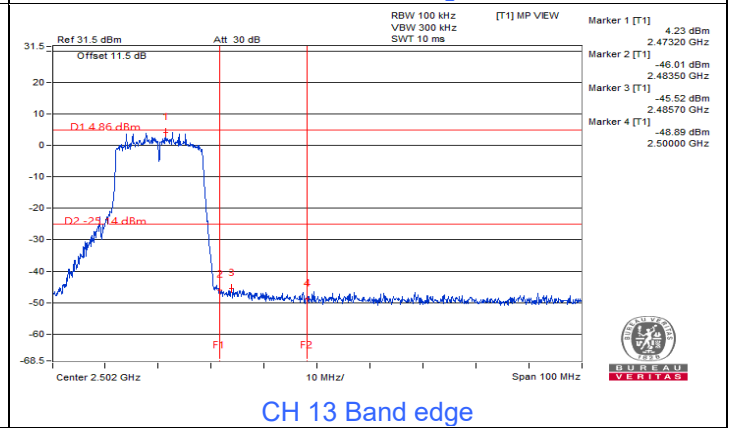
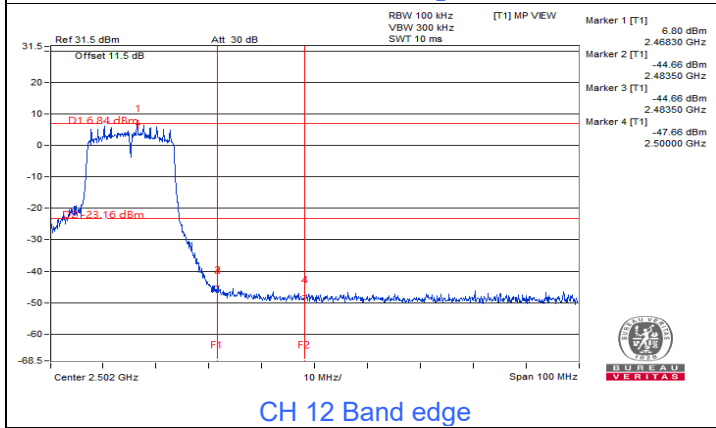
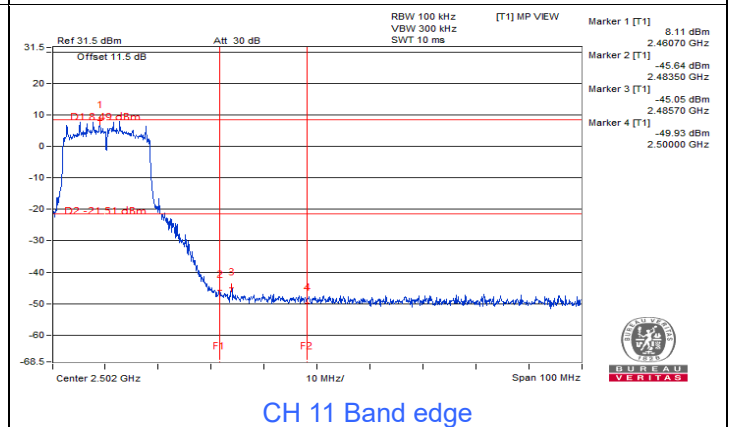
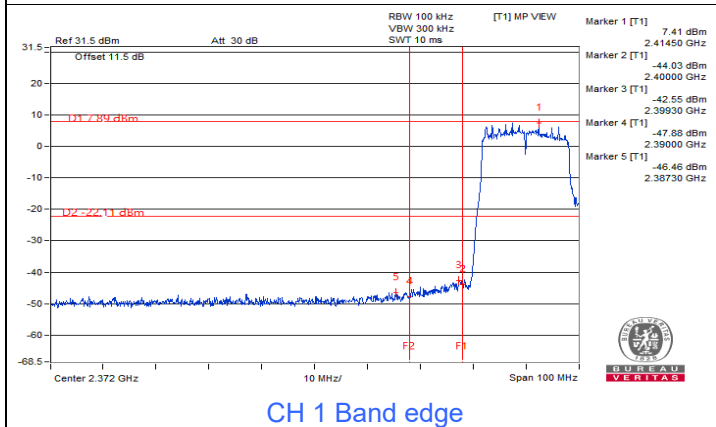
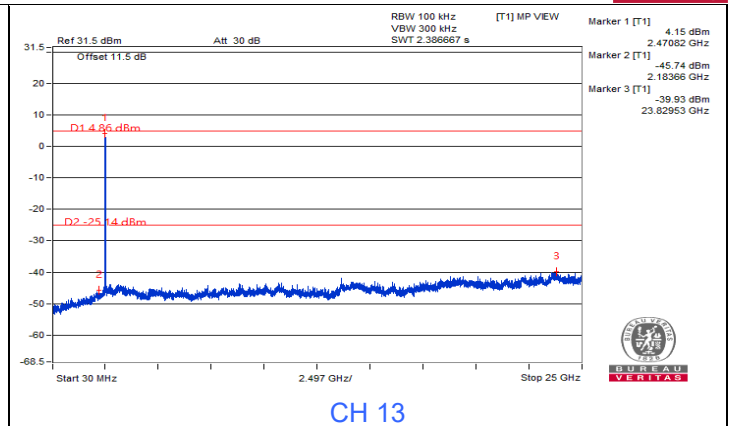
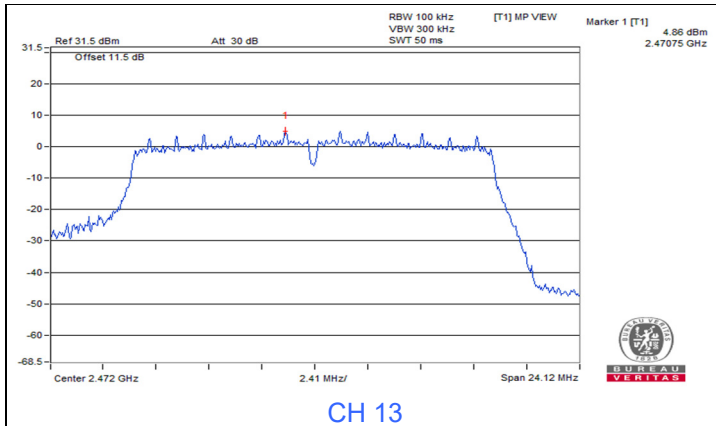
802.11b 1TX





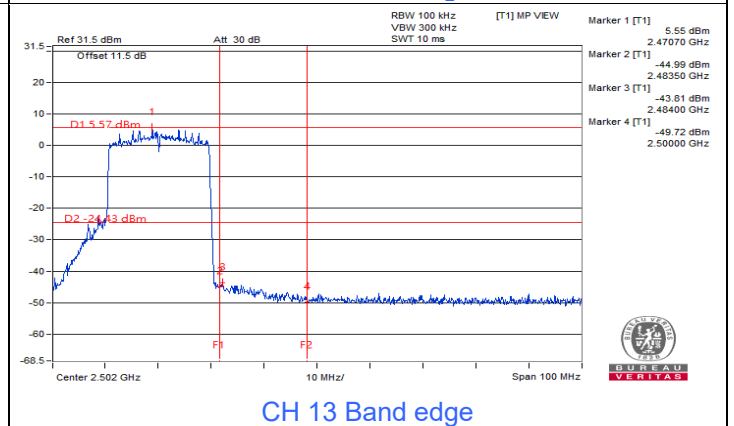
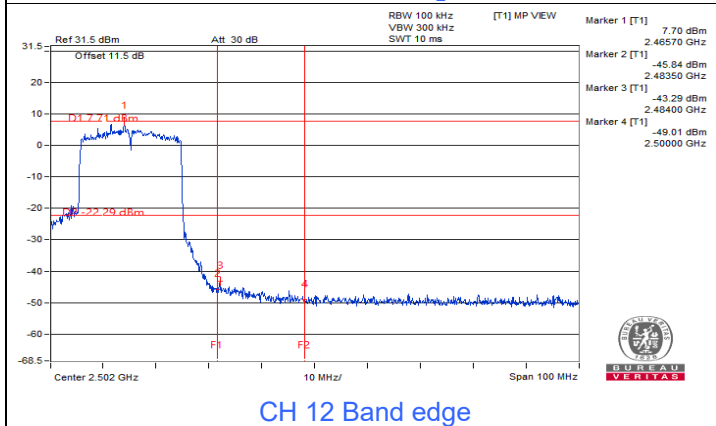
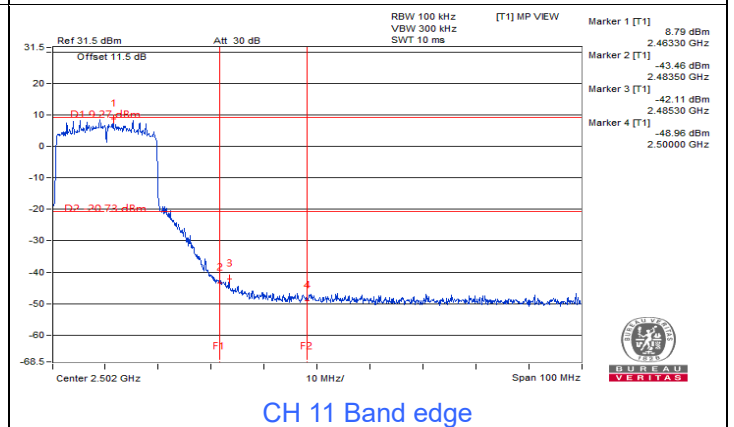
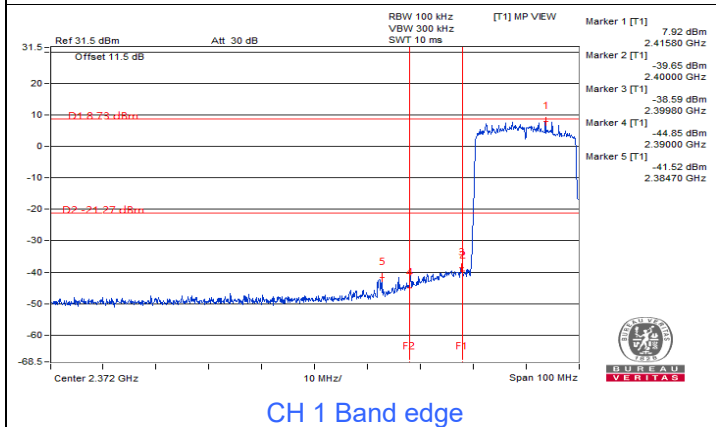
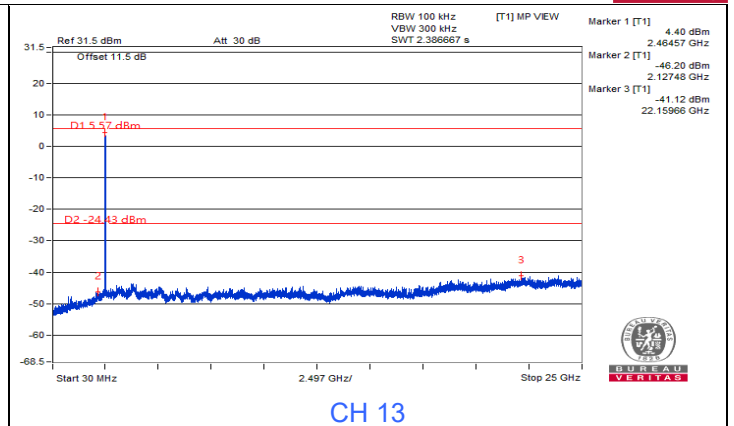
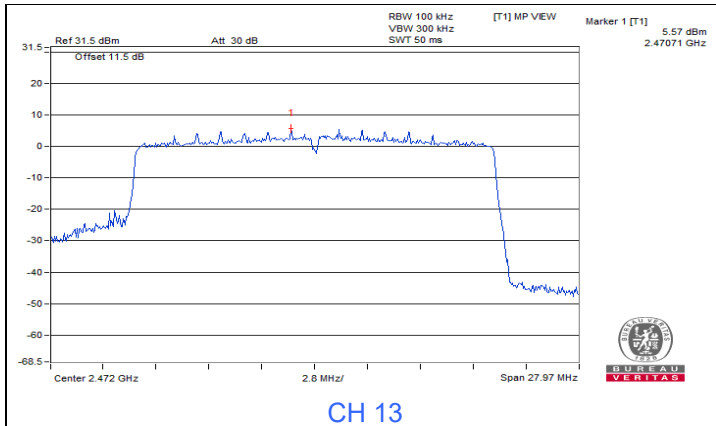
802.11g 1TX





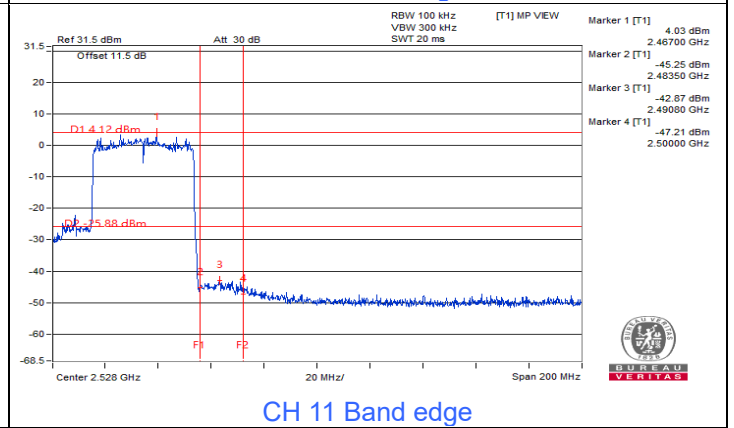
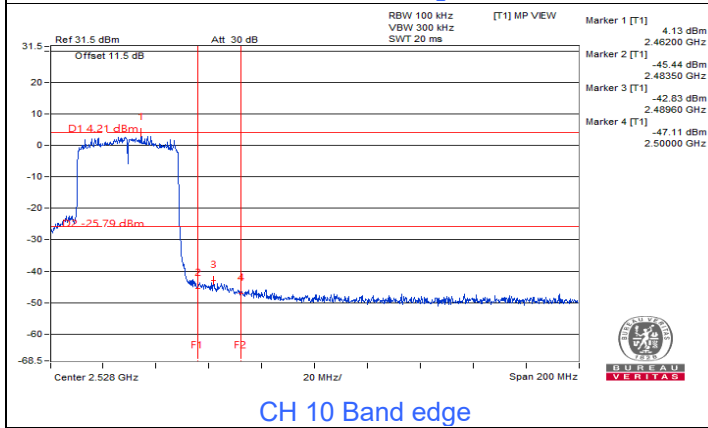
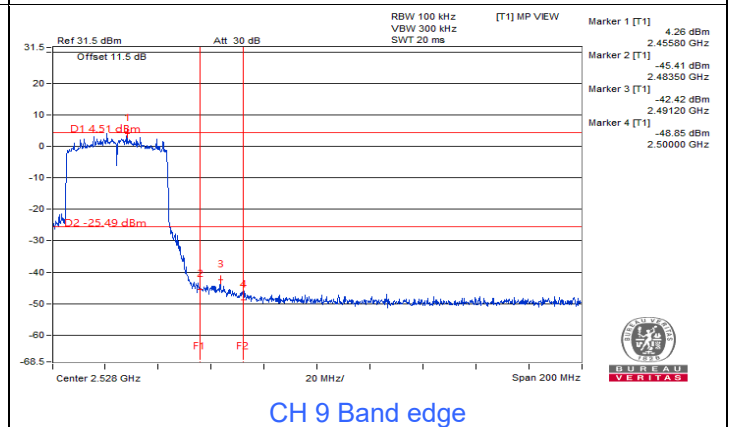
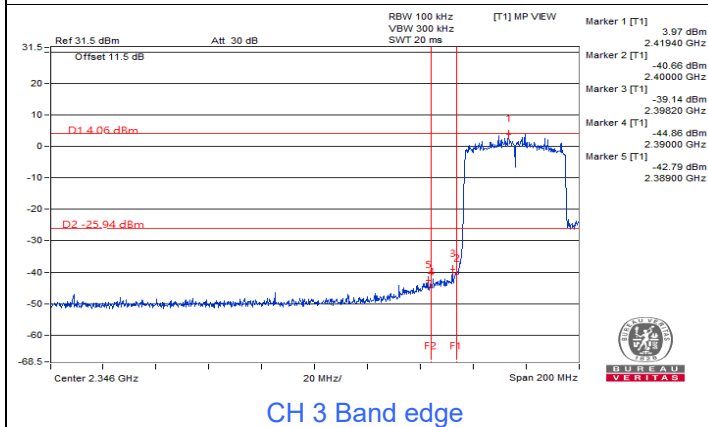
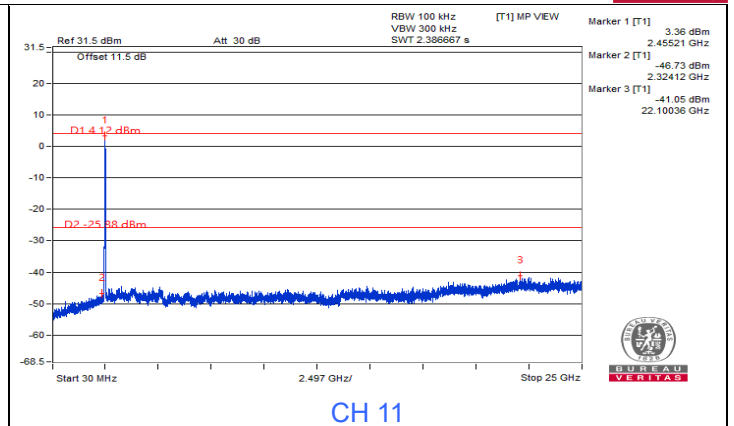
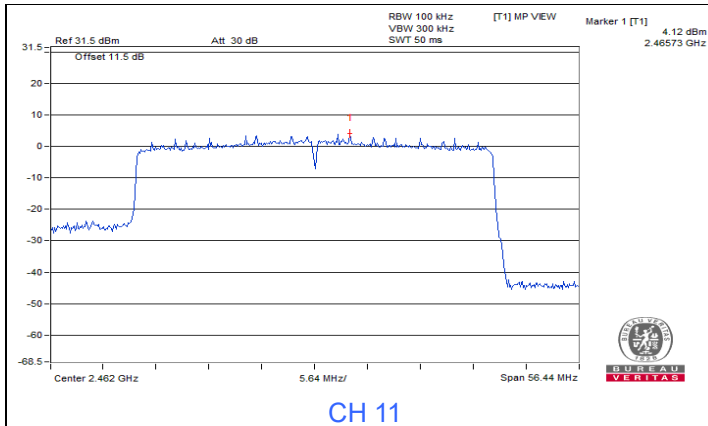
802.11be (EHT20) 1S1T



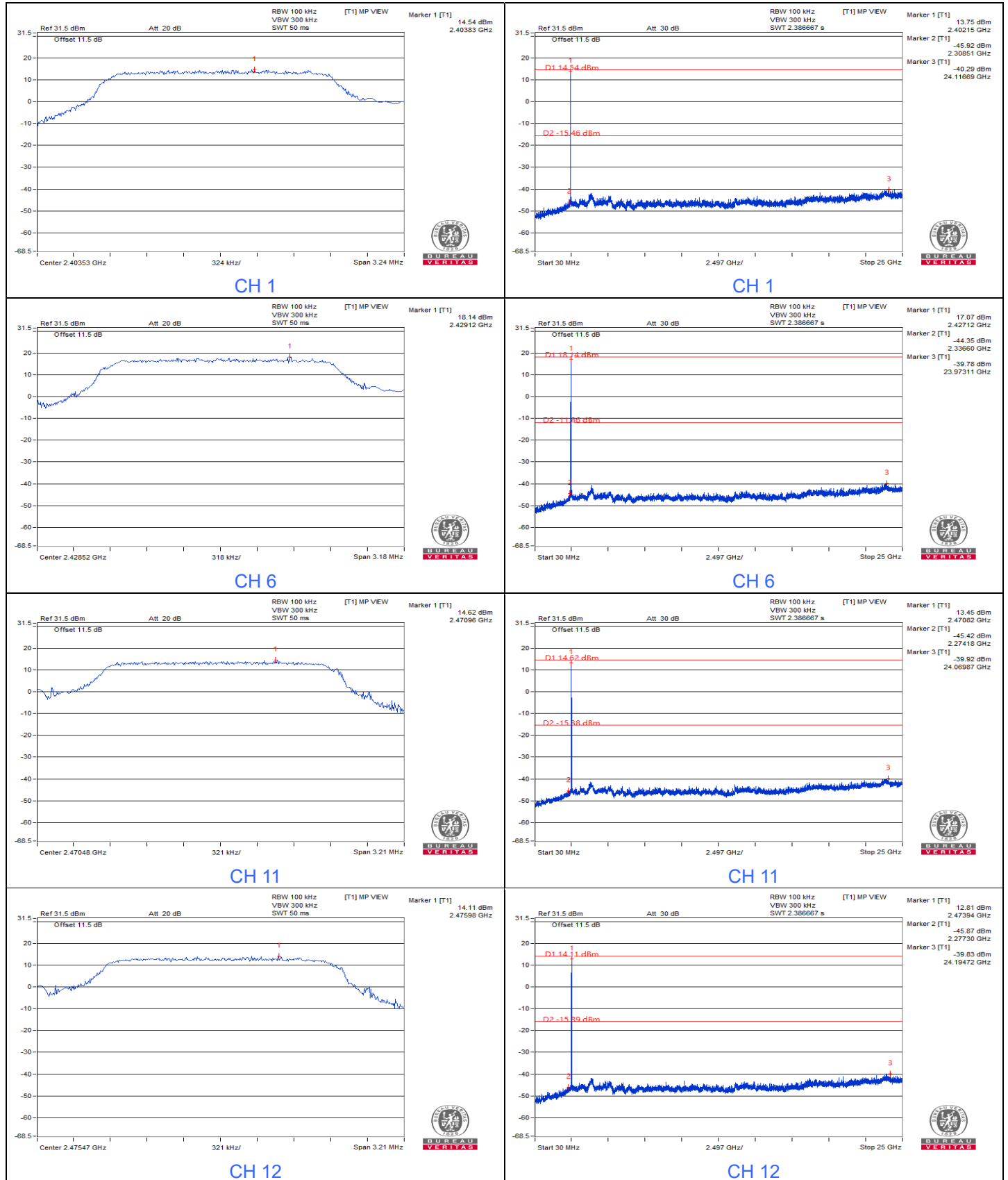


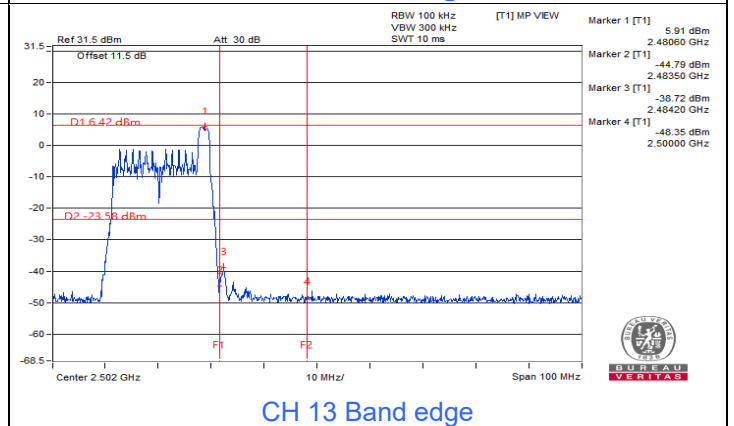
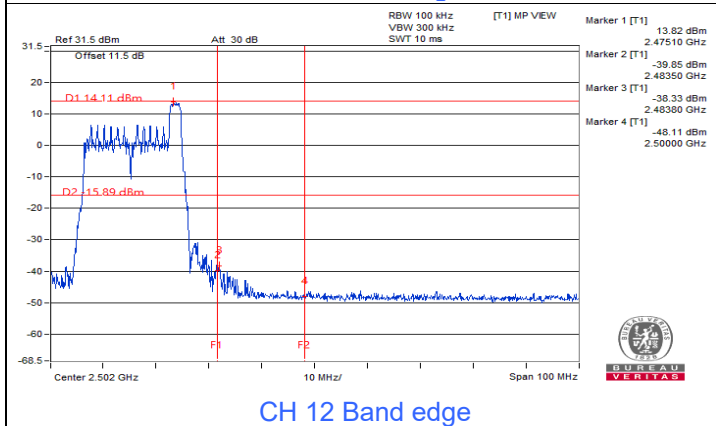
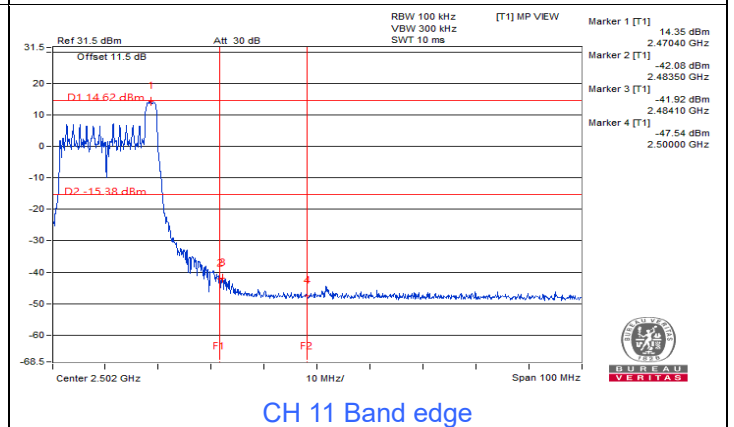
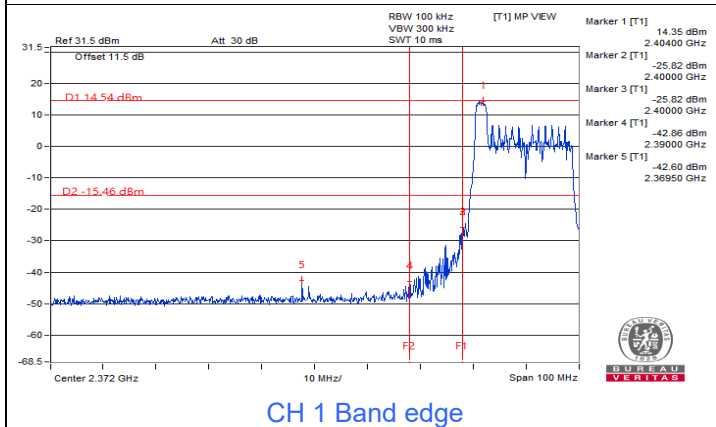
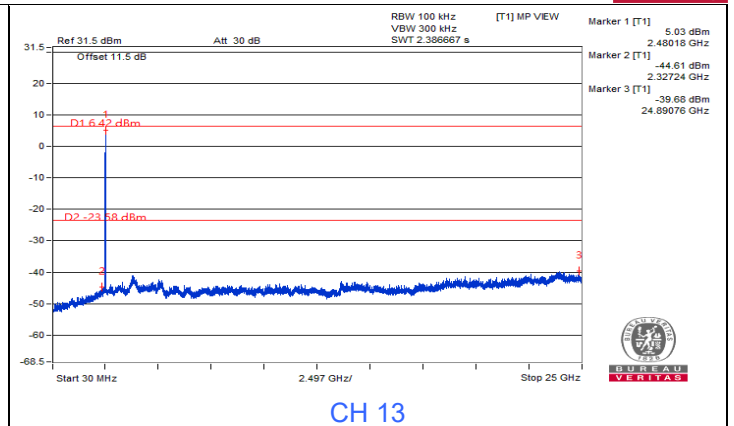
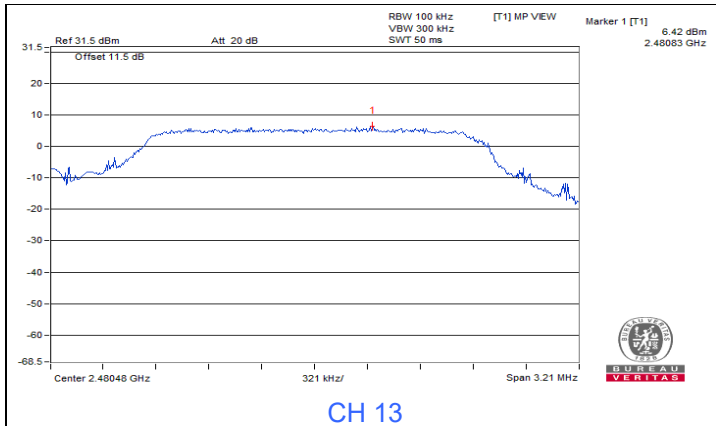
802.11be (EHT40) 1S1T



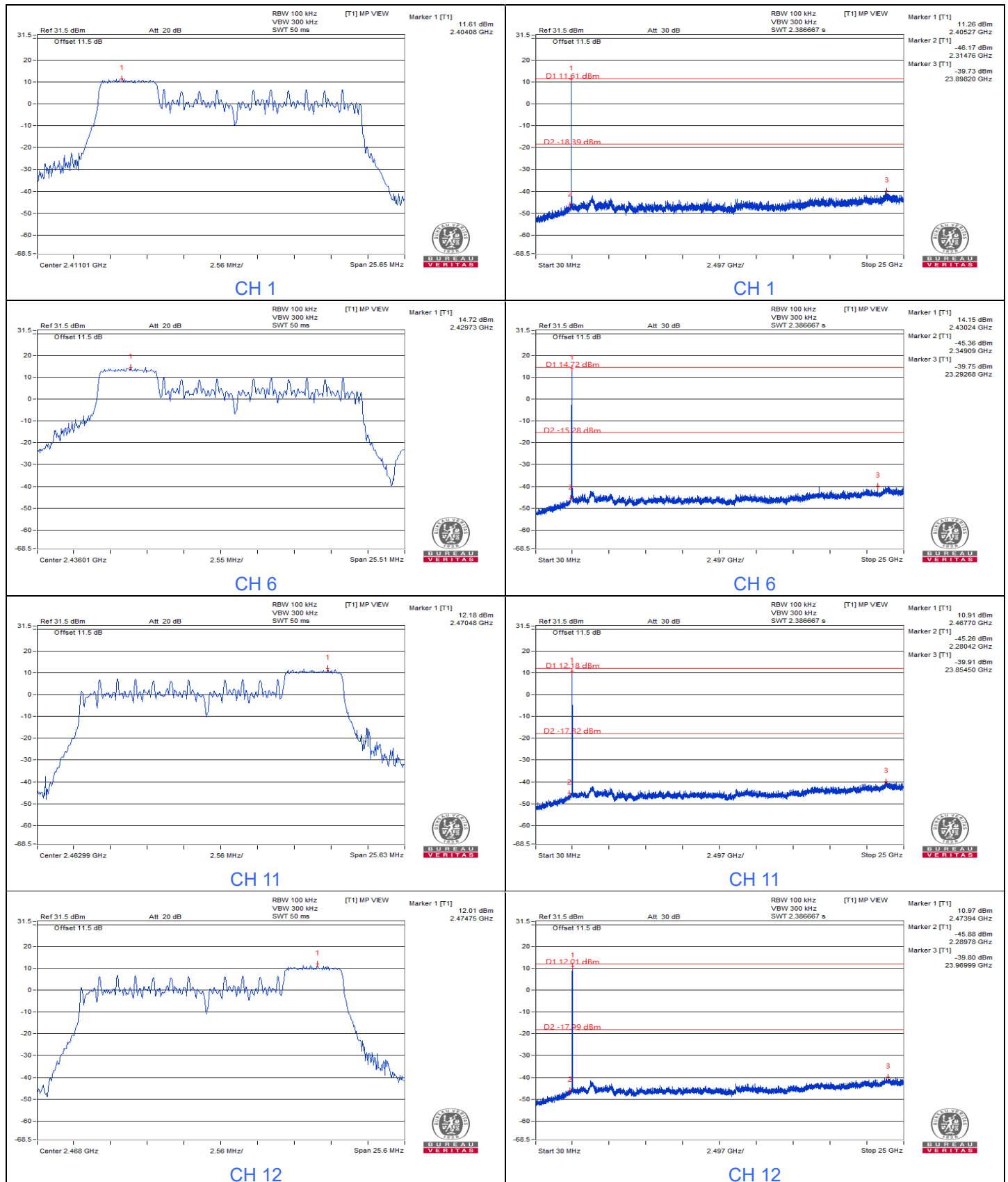


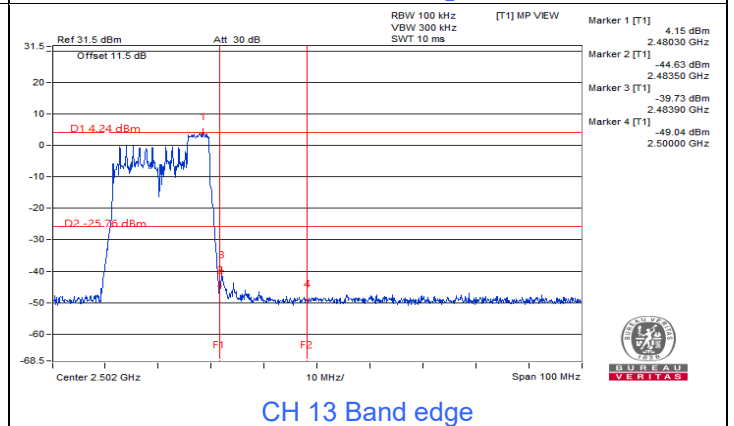
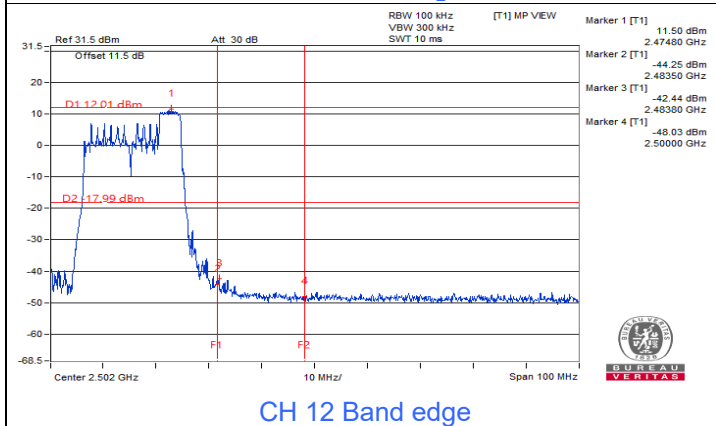
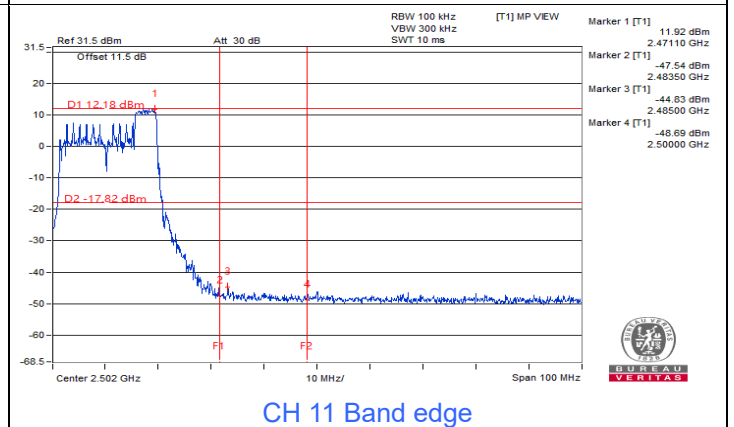
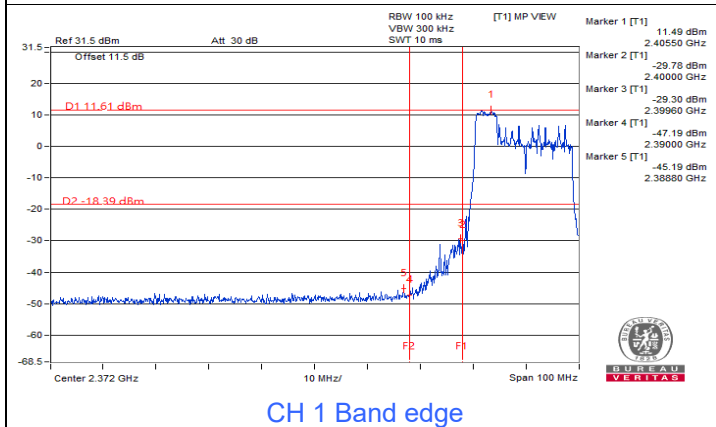
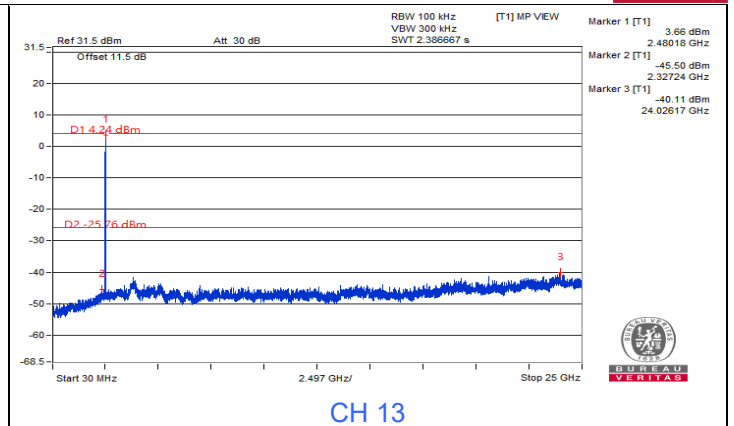
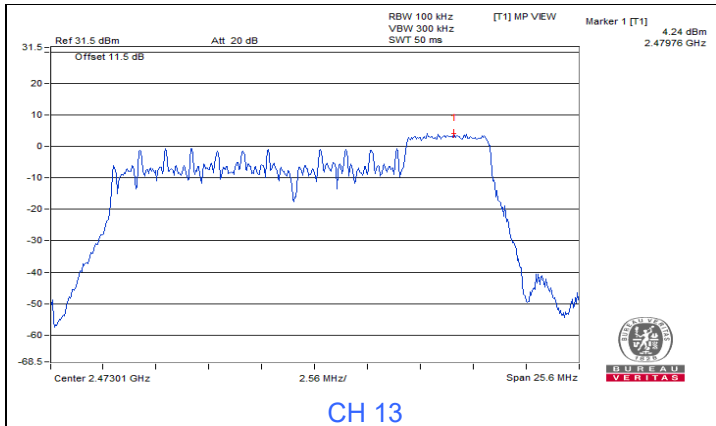
802.11be (EHT20) 26-tone RU 1S1T



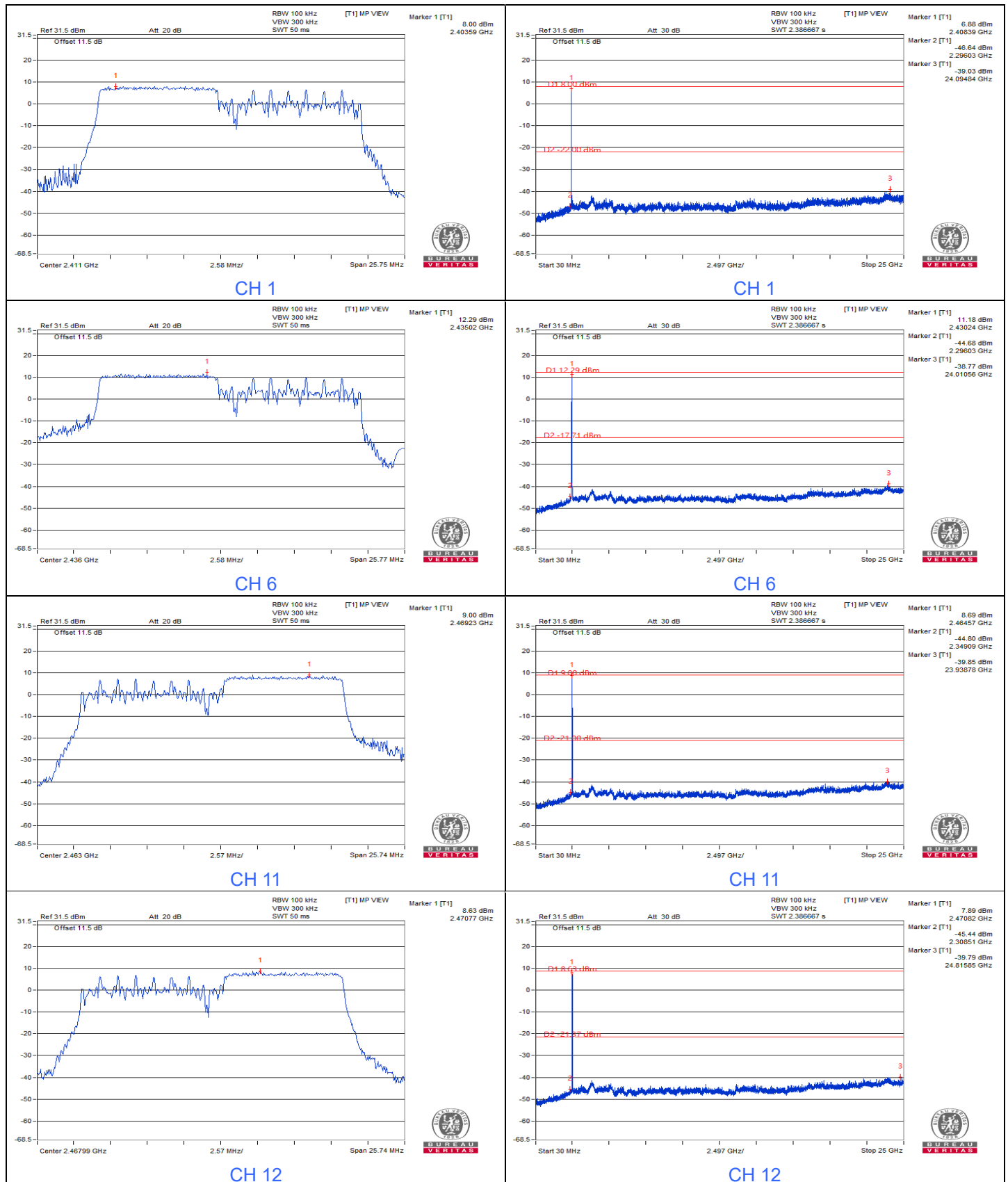


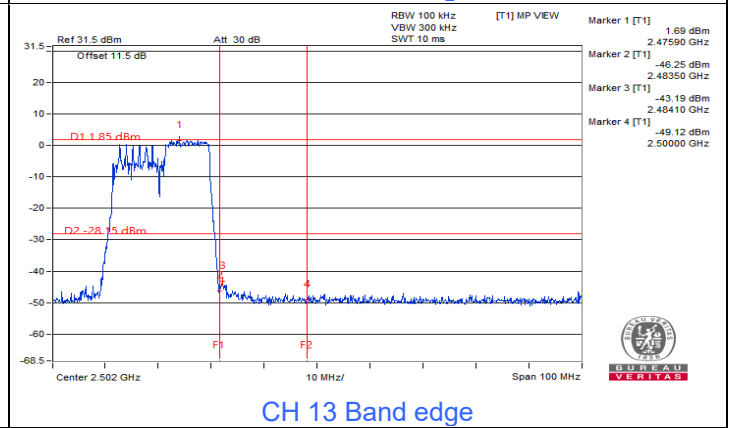
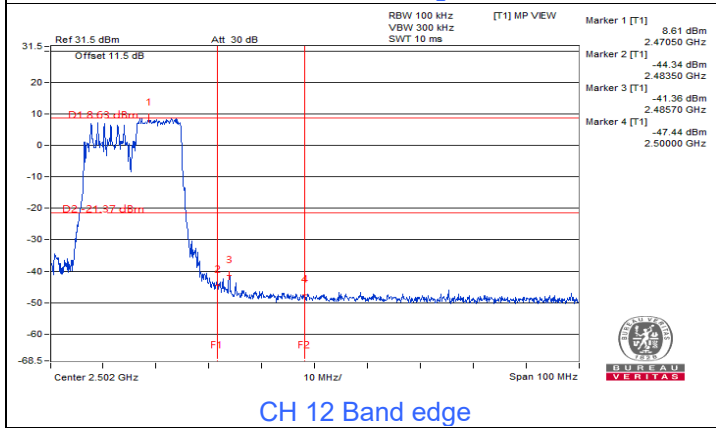
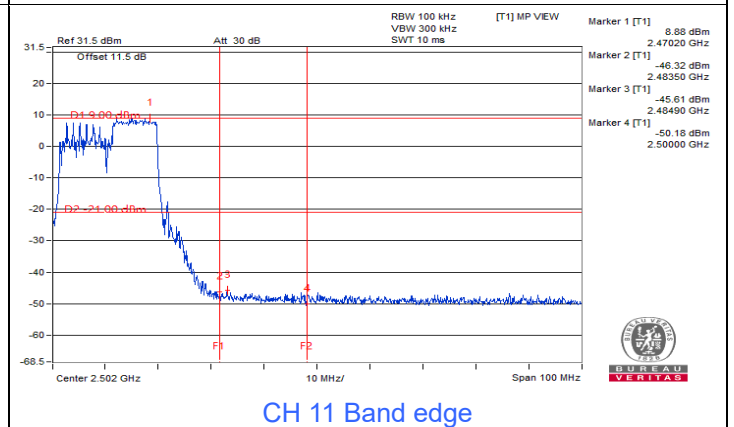
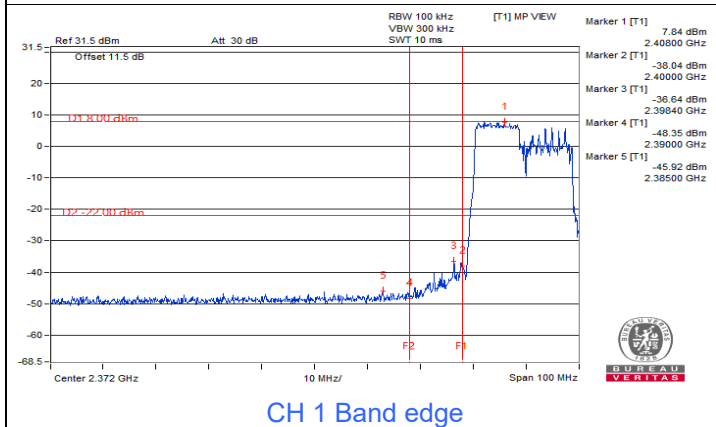
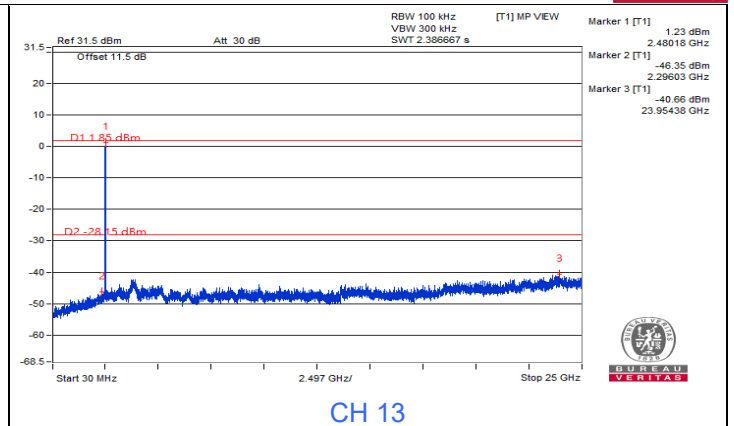
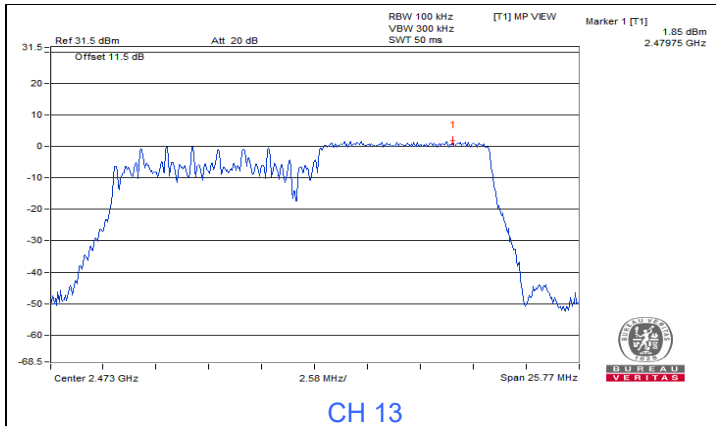
802.11be (EHT20) 52-tone RU 1S1T



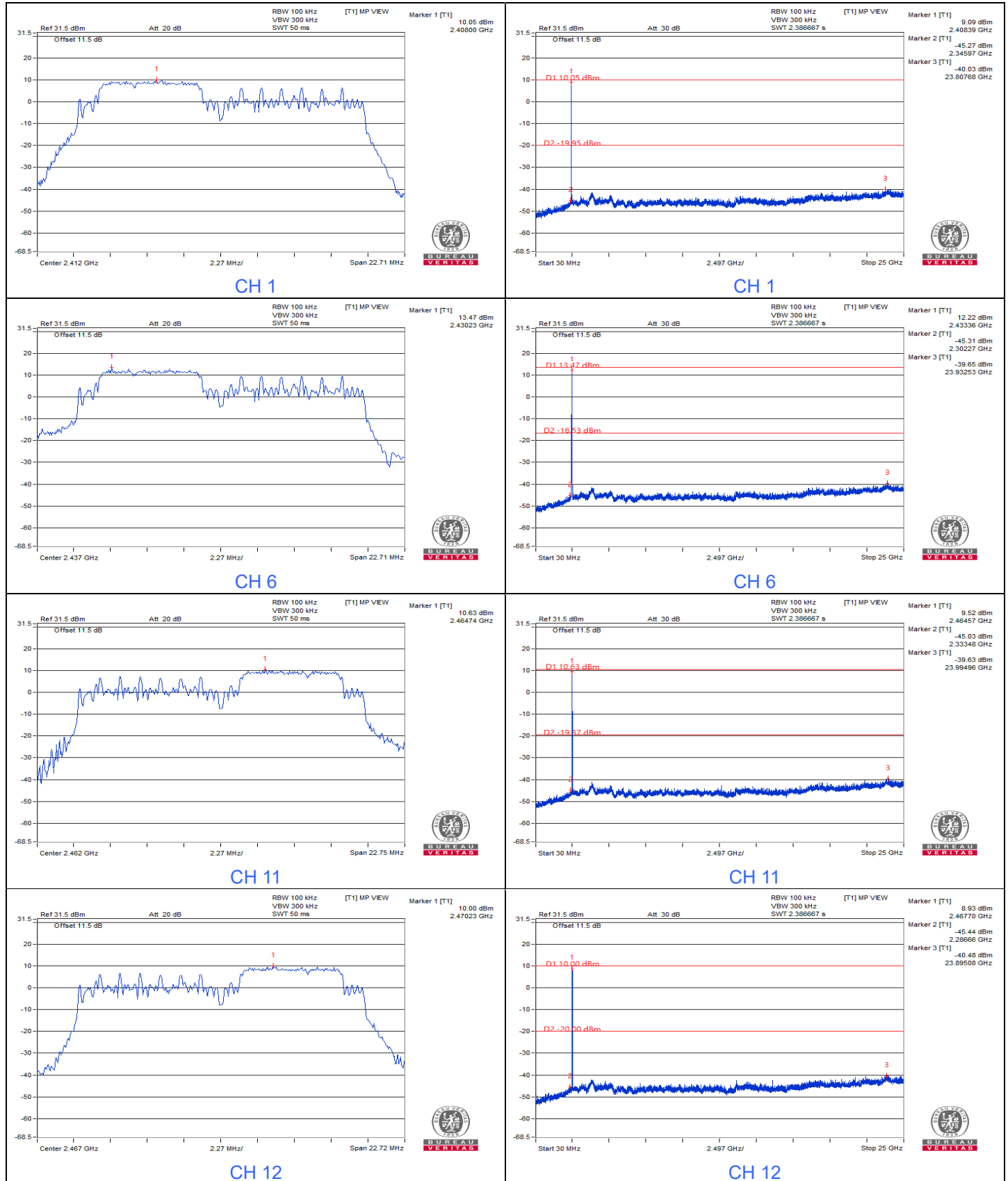


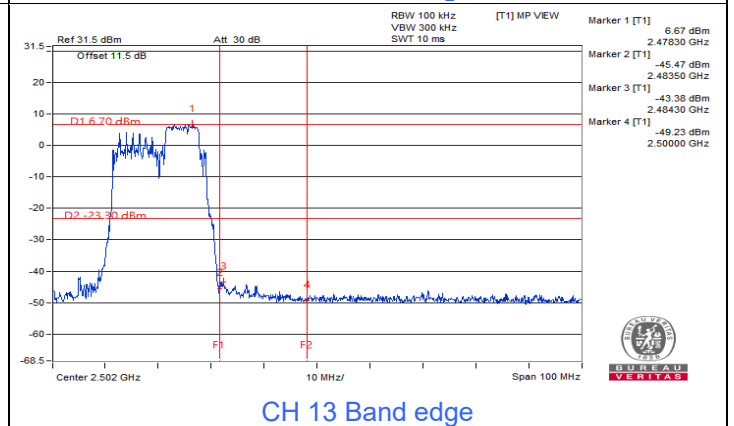
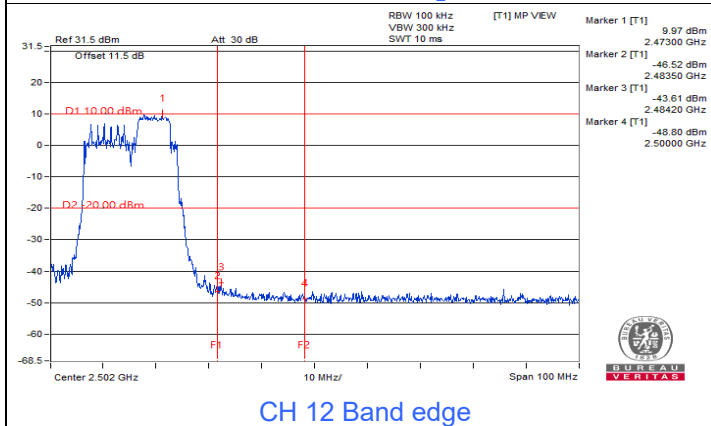
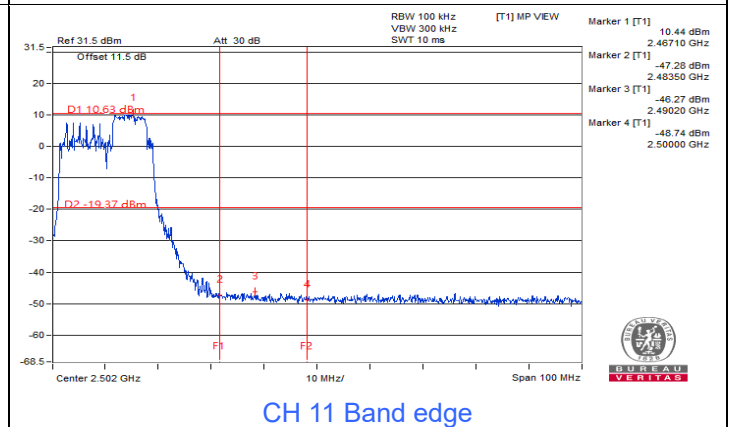
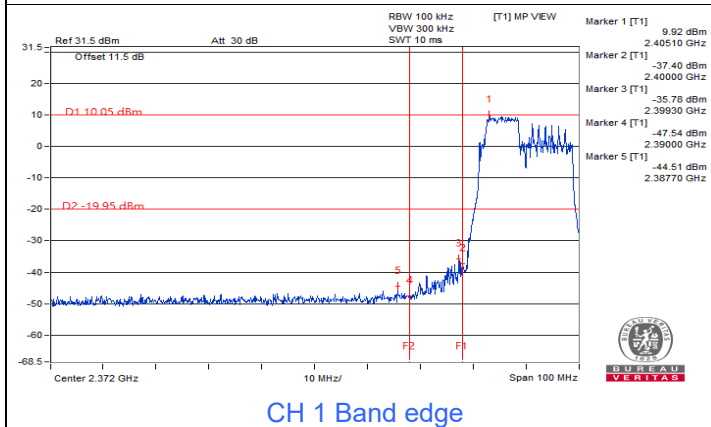
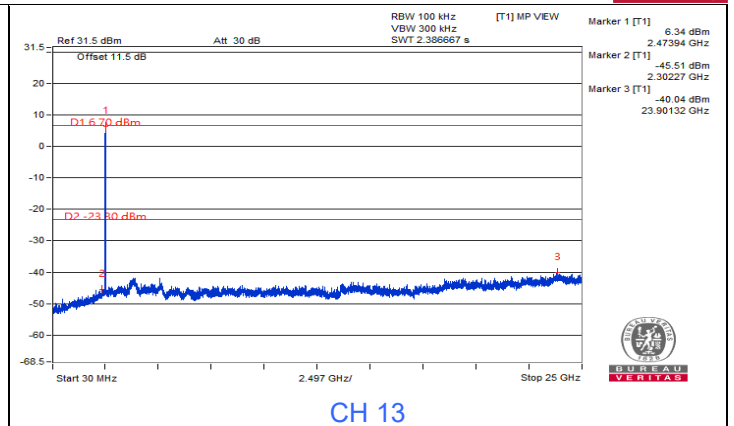
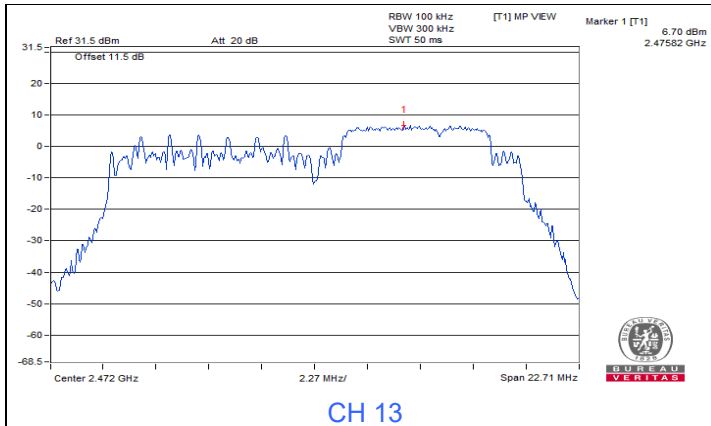
802.11be (EHT20) 106-tone RU 1S1T



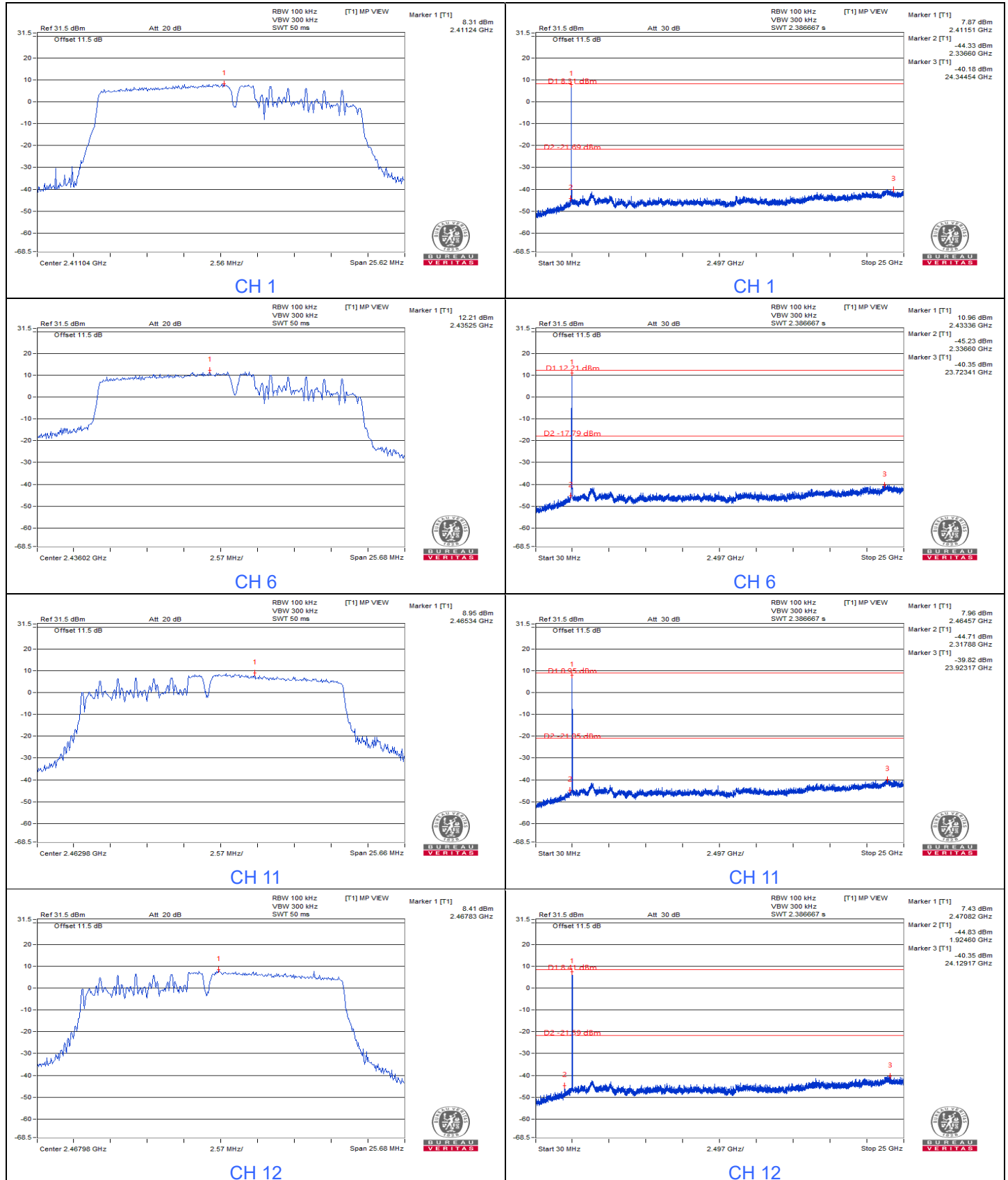


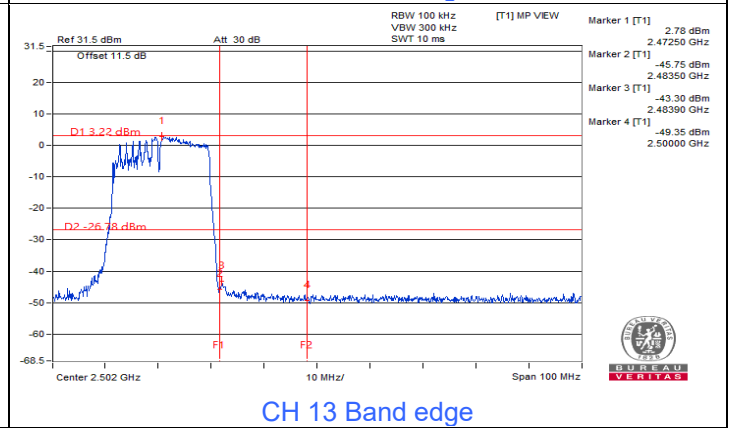
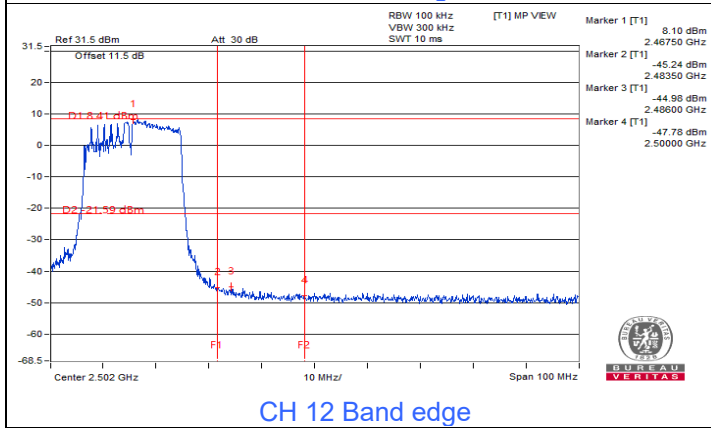
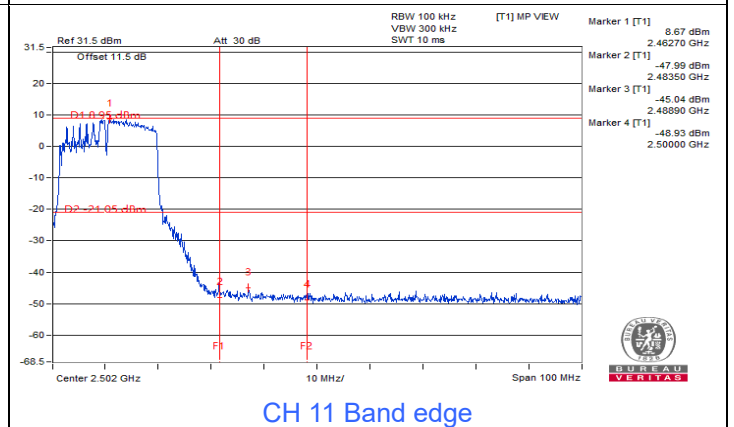
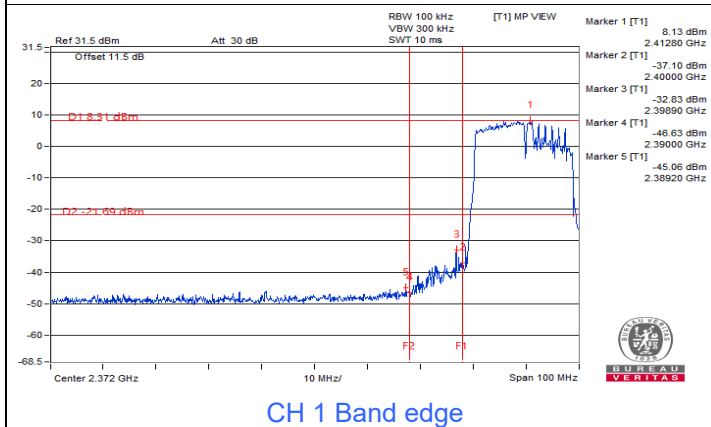
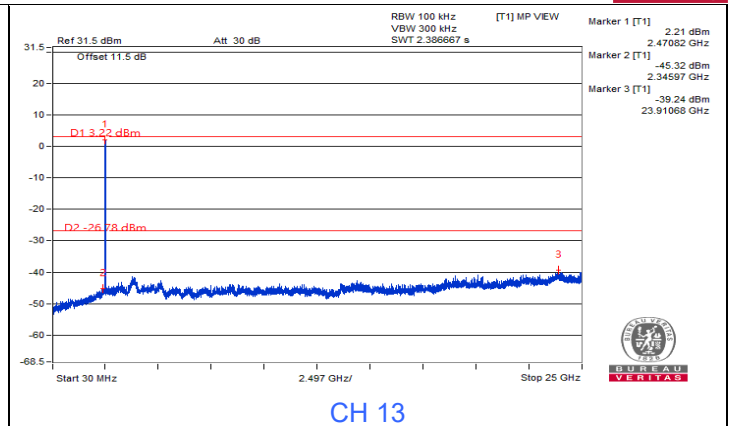
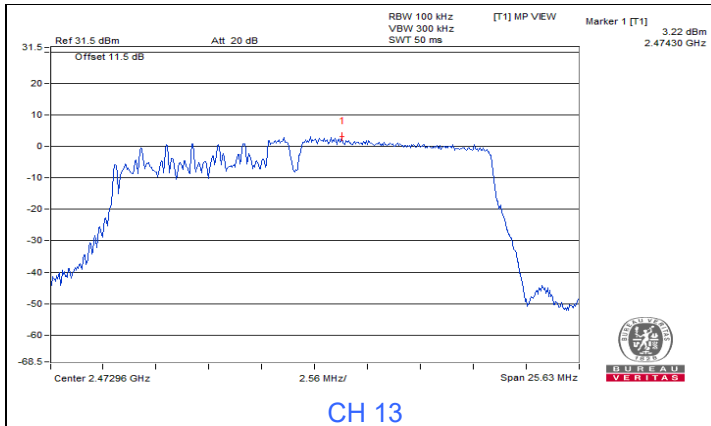
802.11be (EHT20) 52+26-tone MRU 1S1T





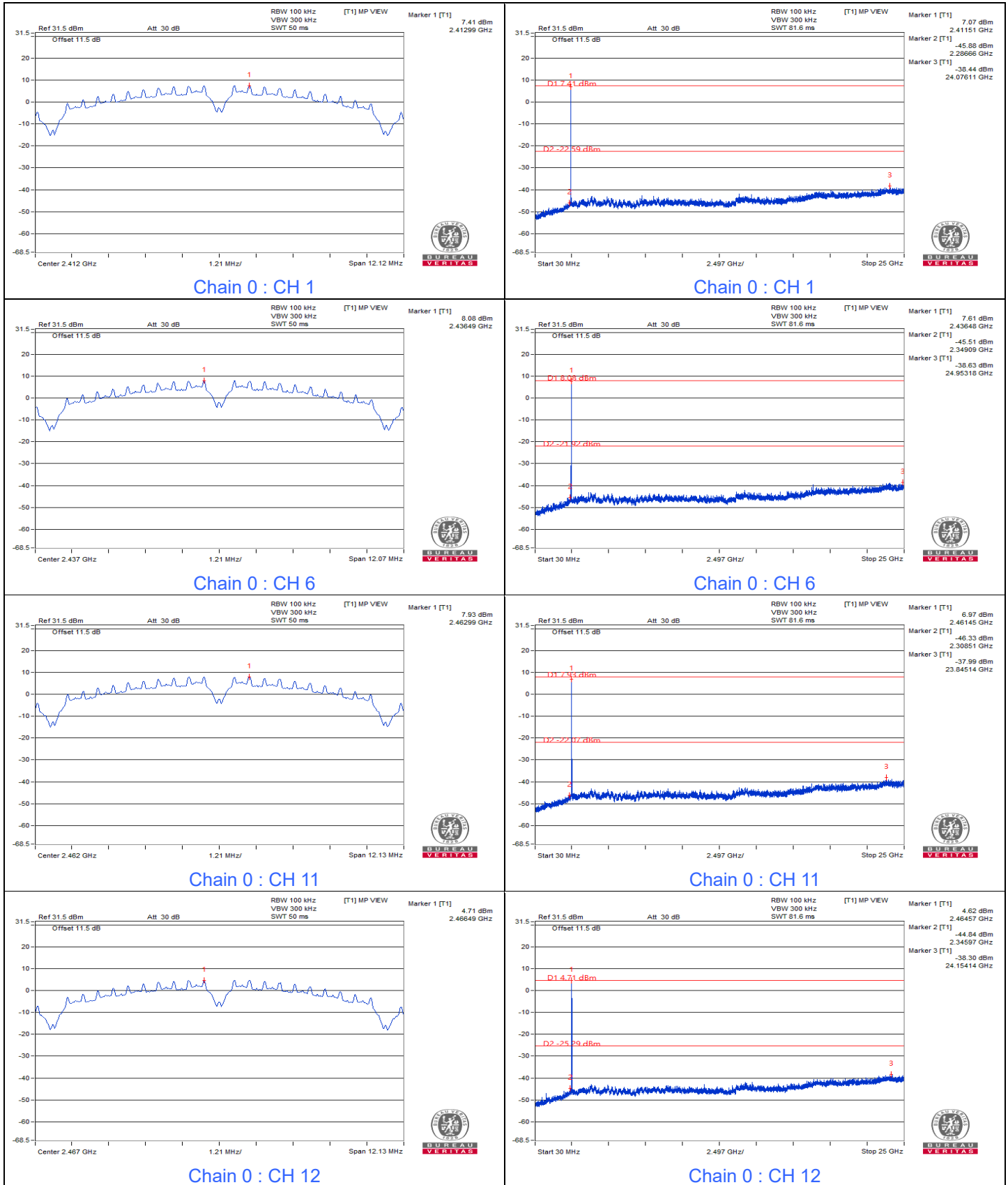
802.11be (EHT20) 106+26-tone MRU 1S1T

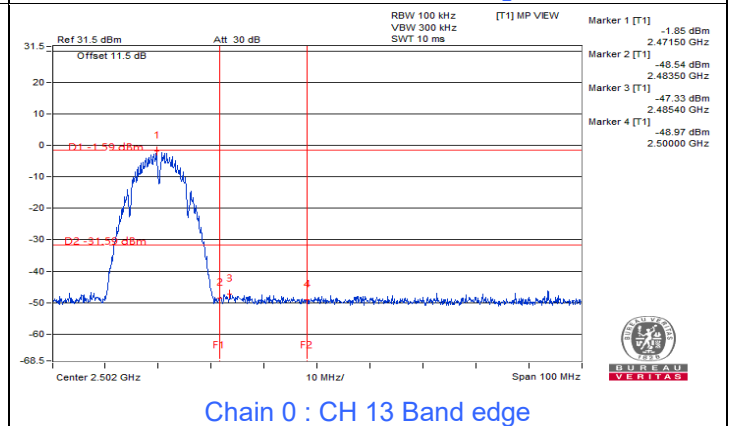
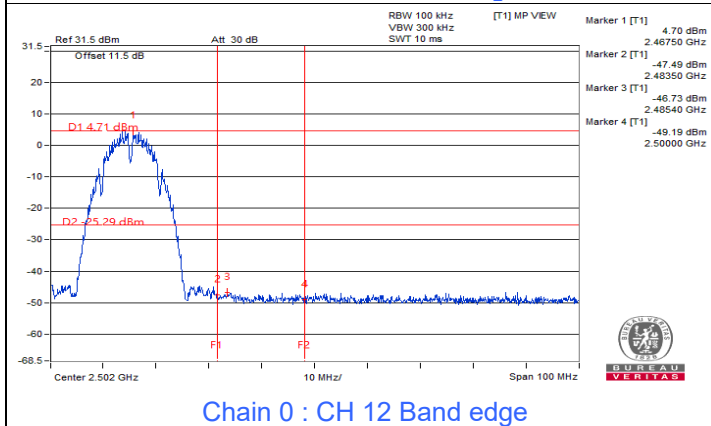
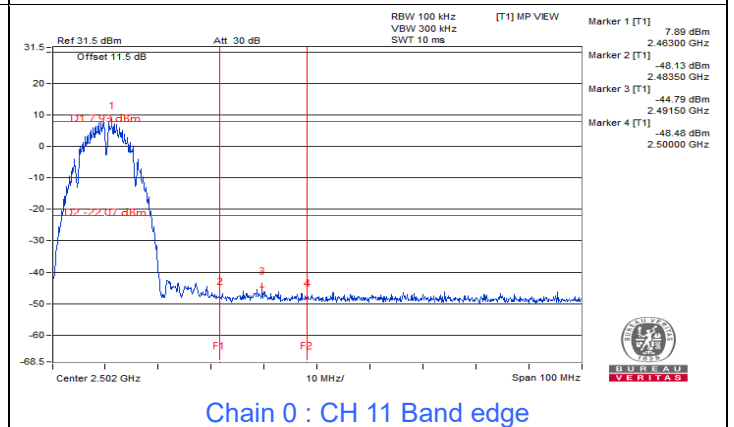
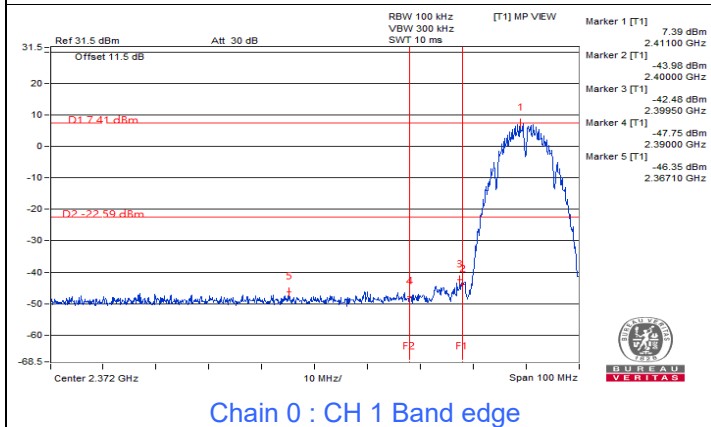
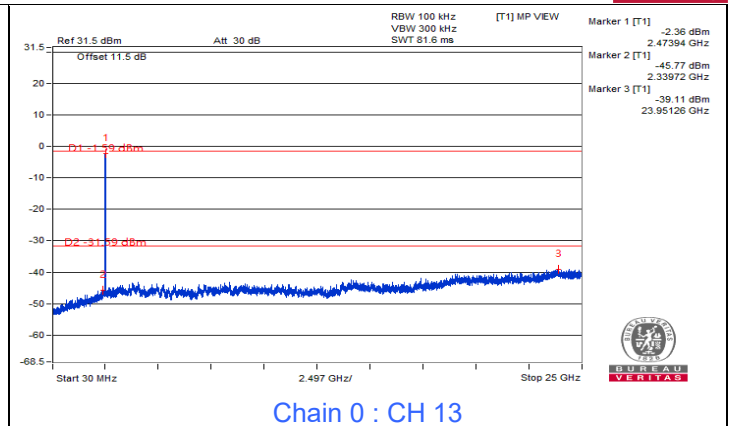
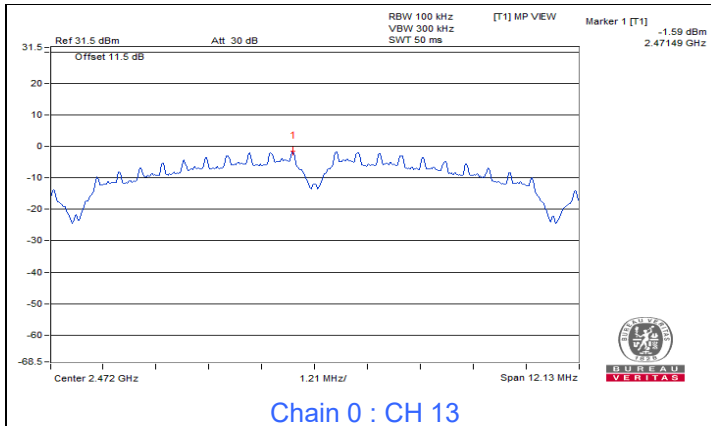


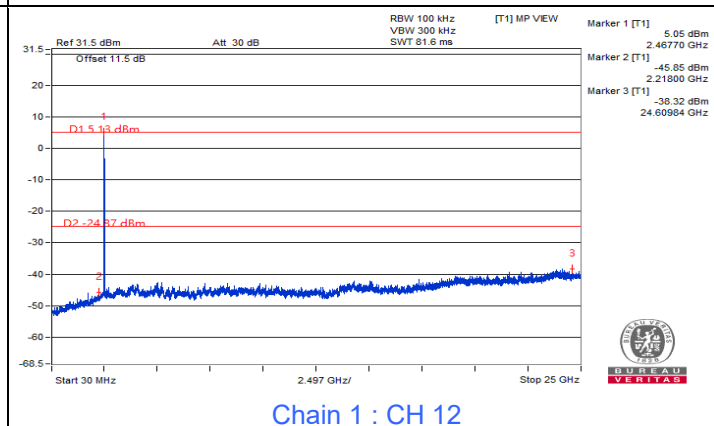
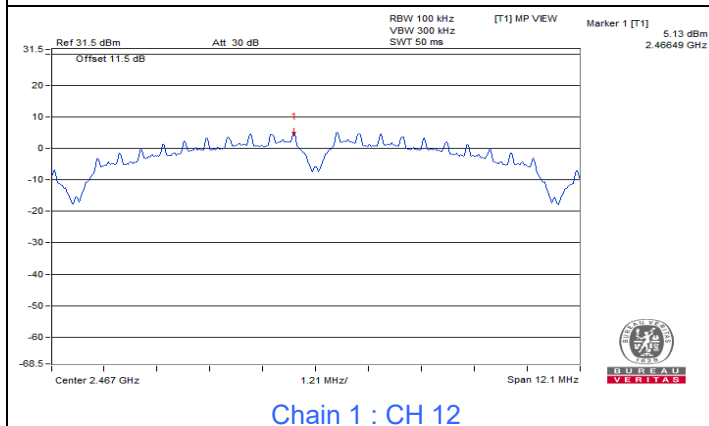
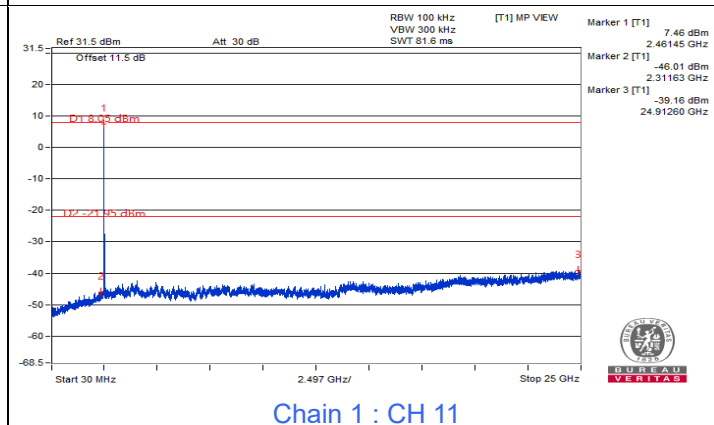
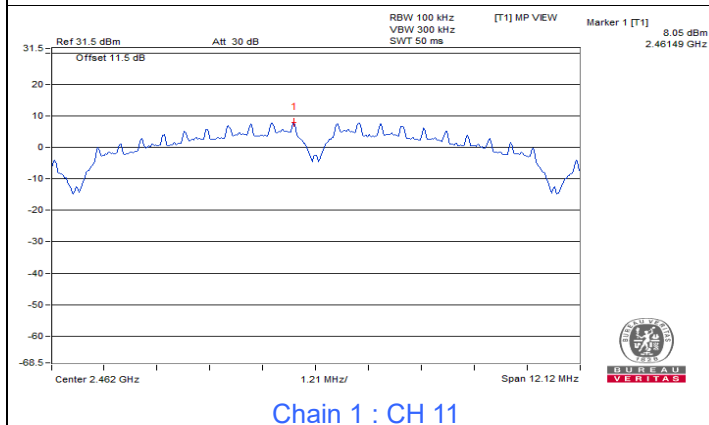
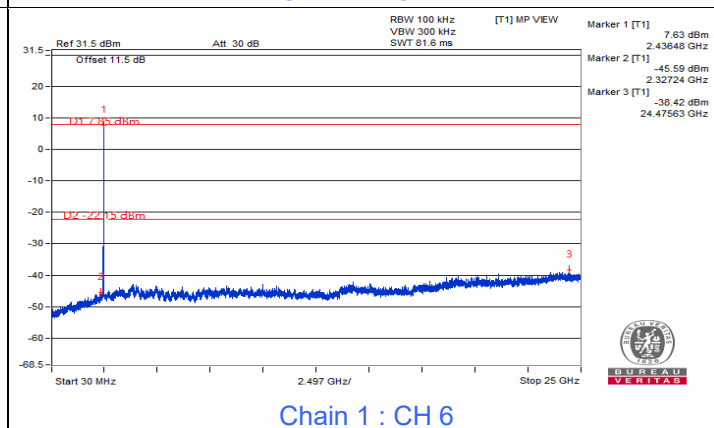
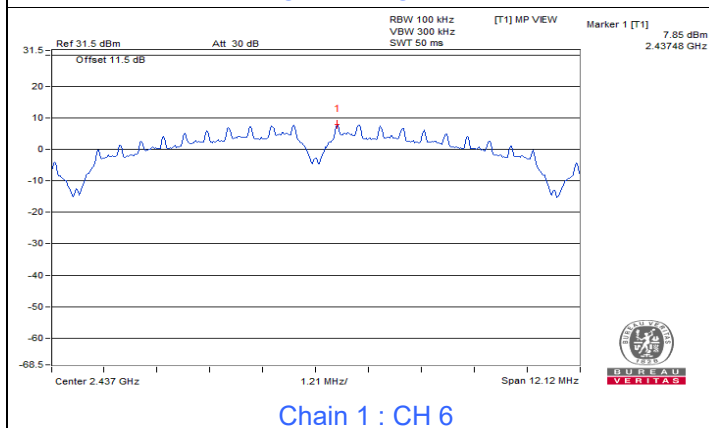
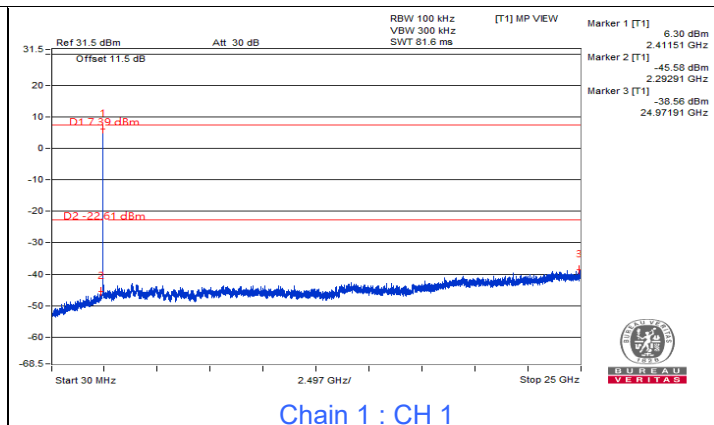
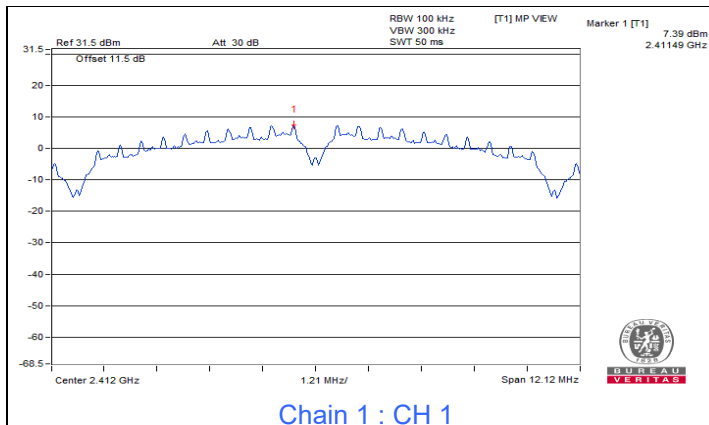


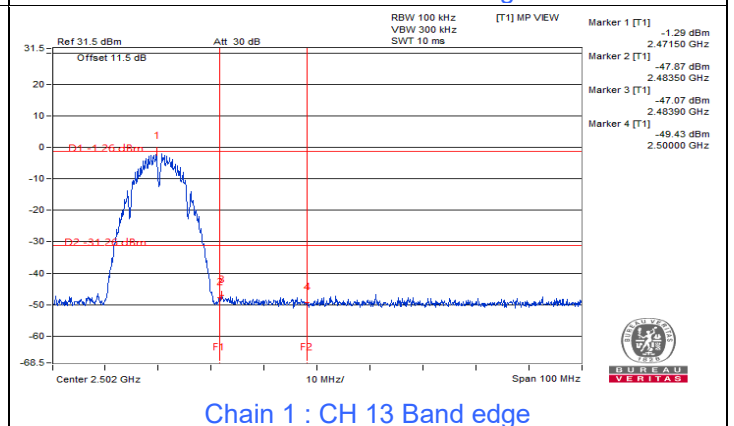
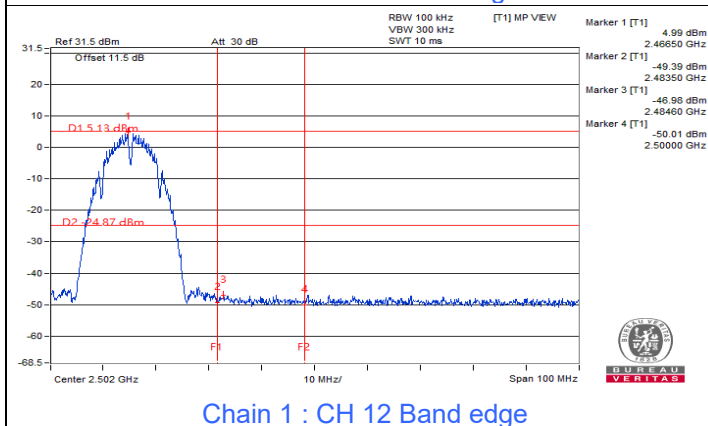
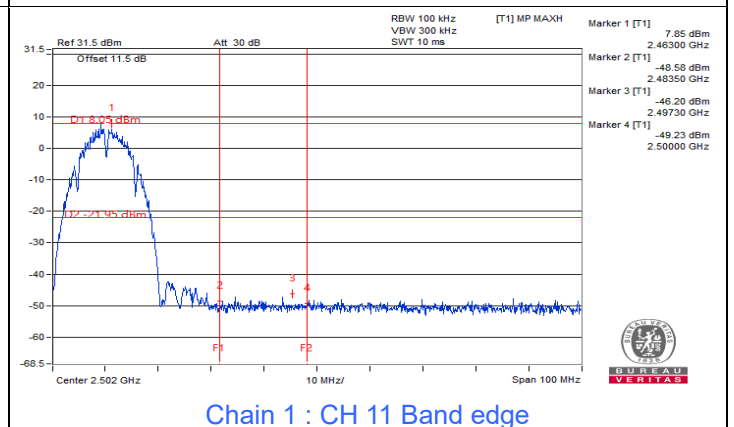
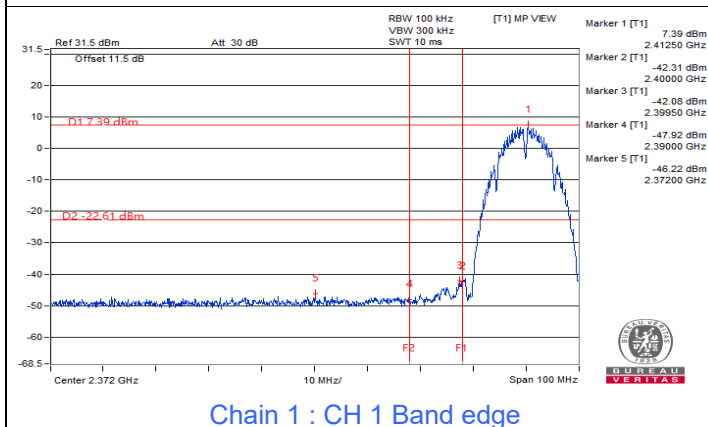
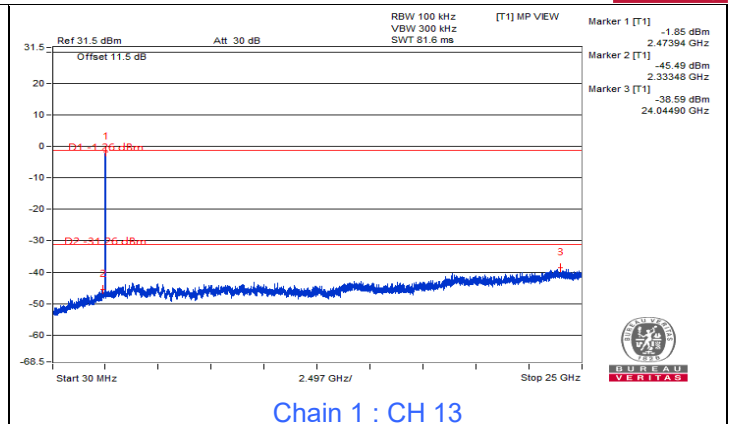
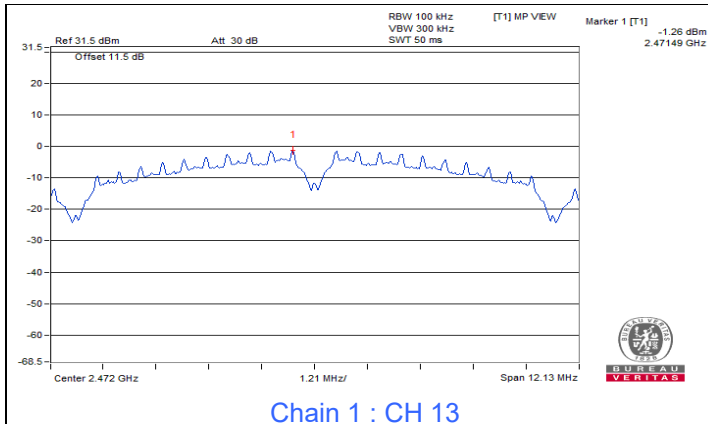
Input Power:	3.3 Vdc	Environmental Conditions:	23°C, 64% RH	Tested By:	Katina Lu
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802.11b 2TX

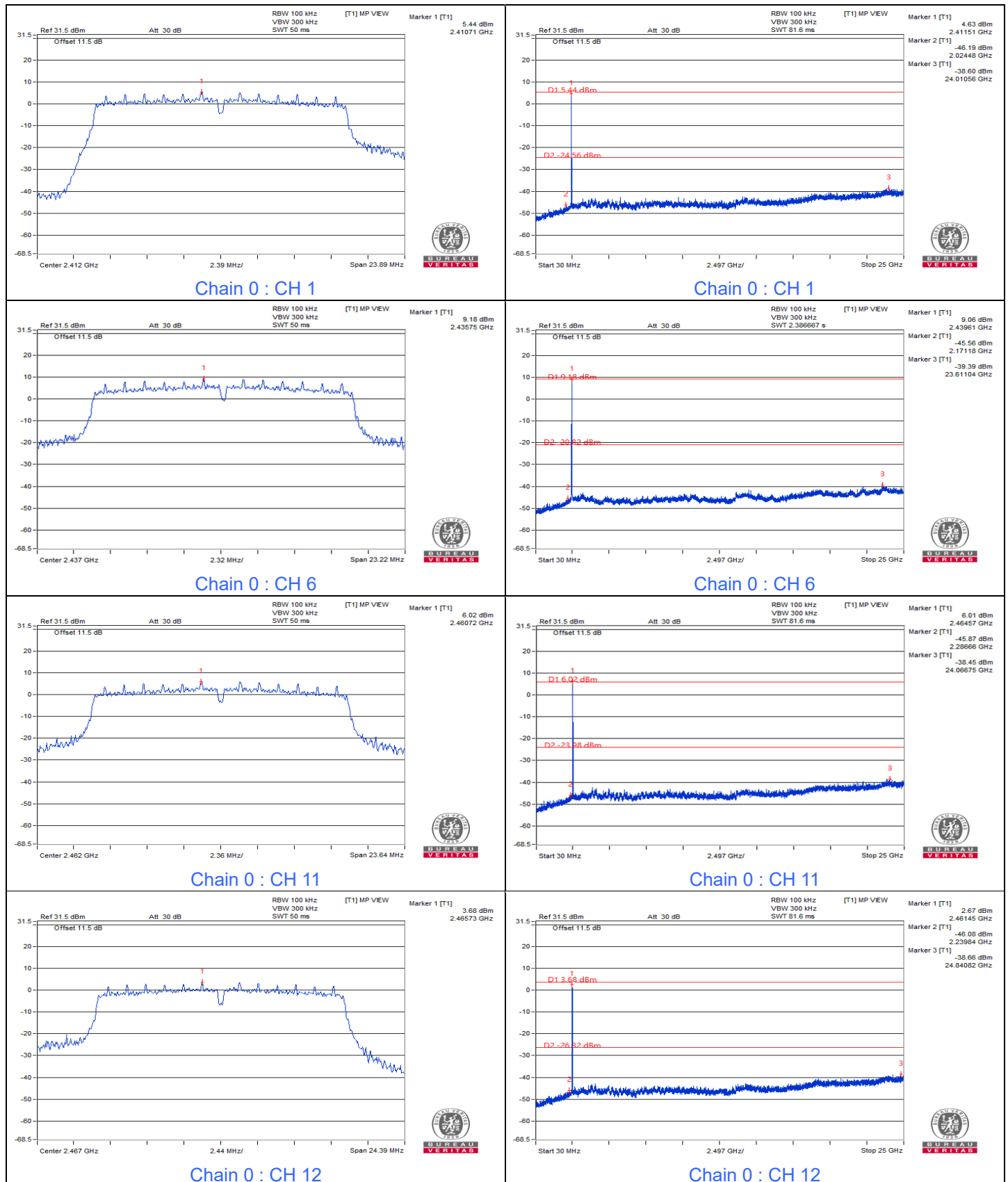


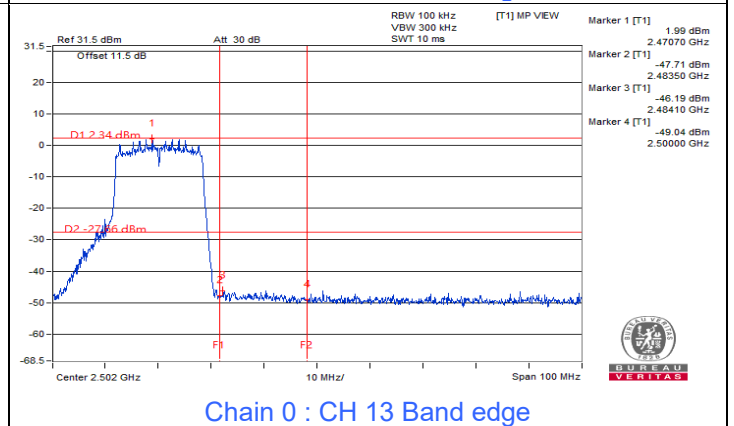
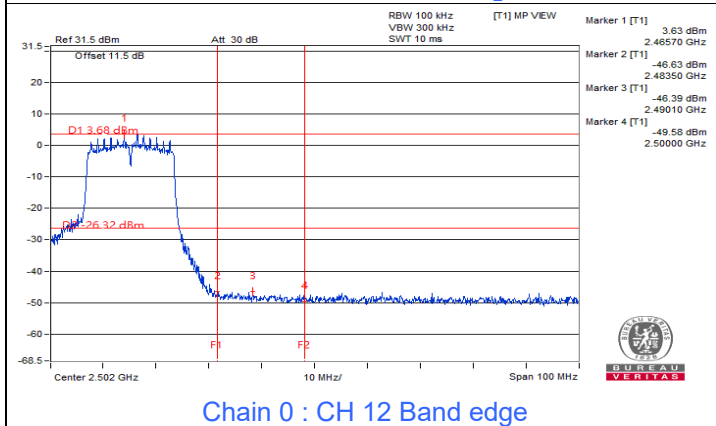
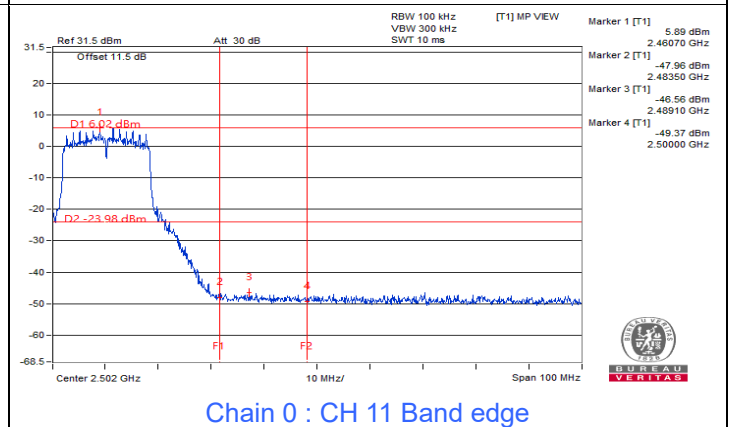
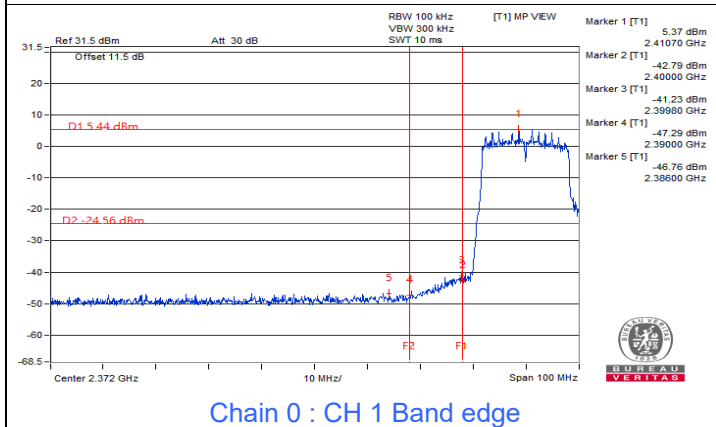
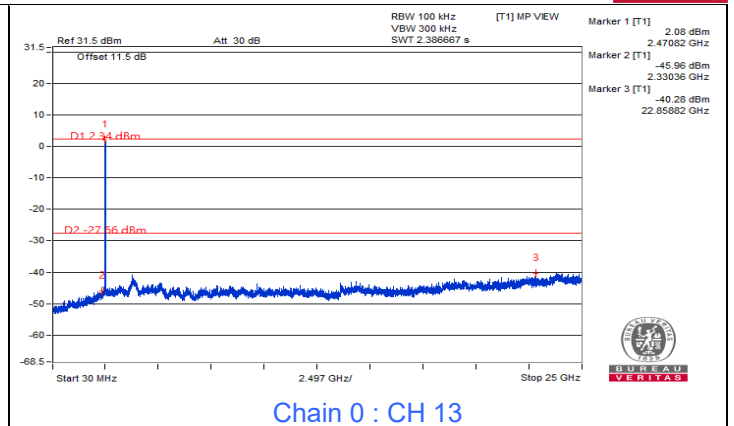
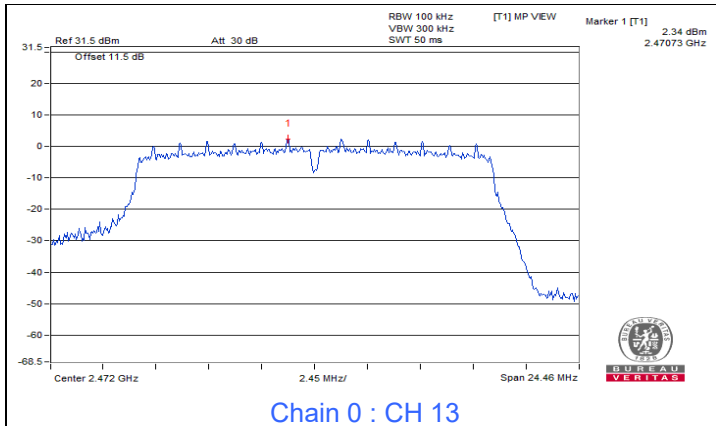


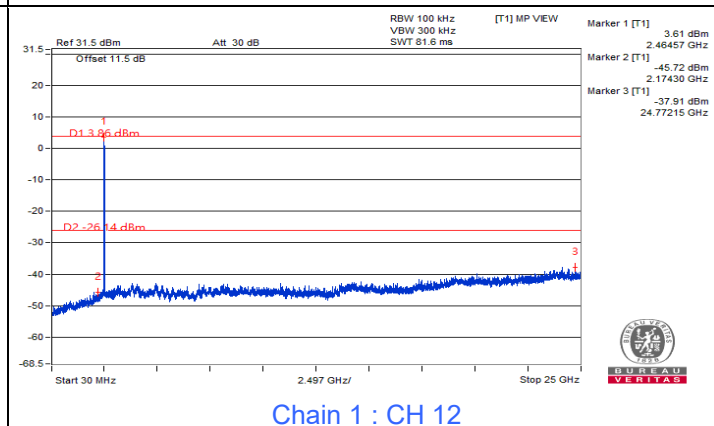
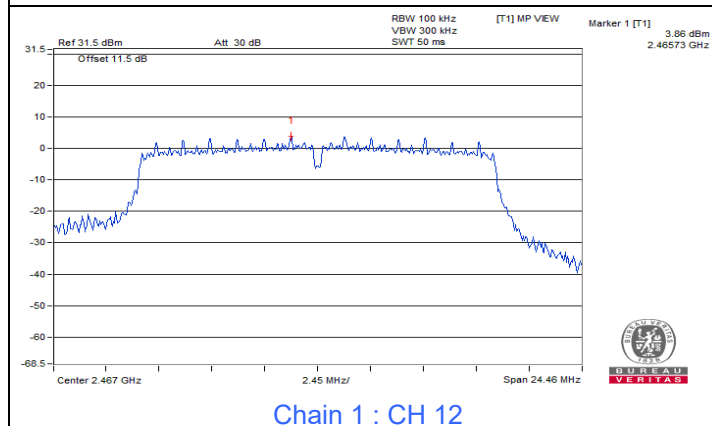
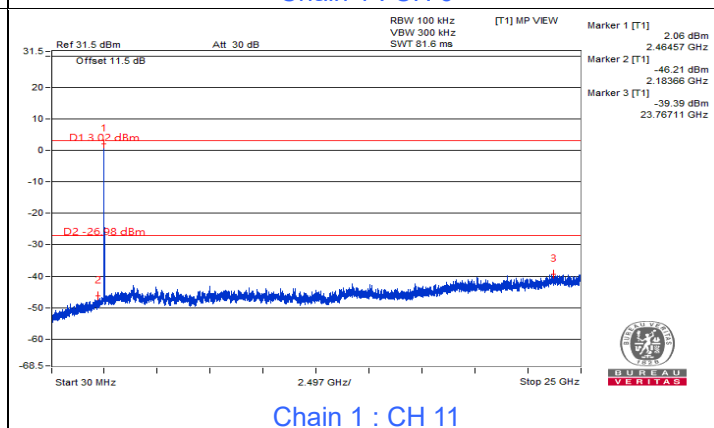
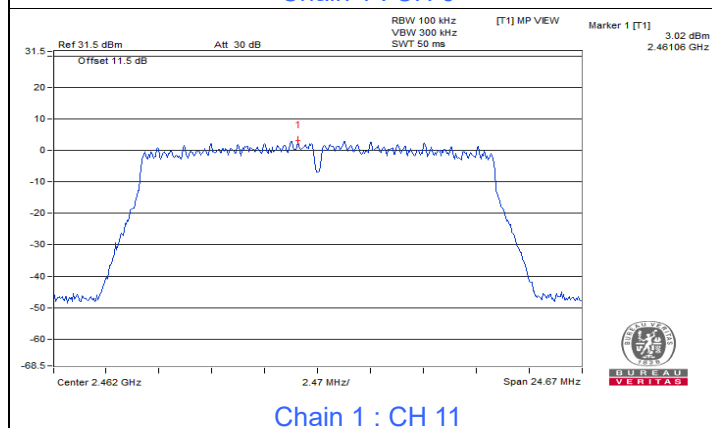
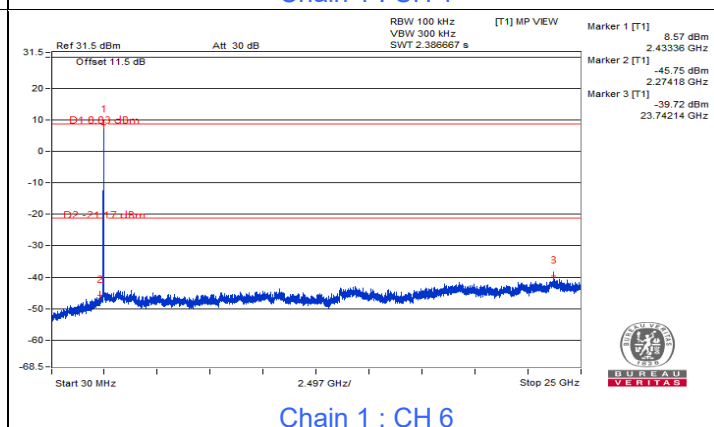
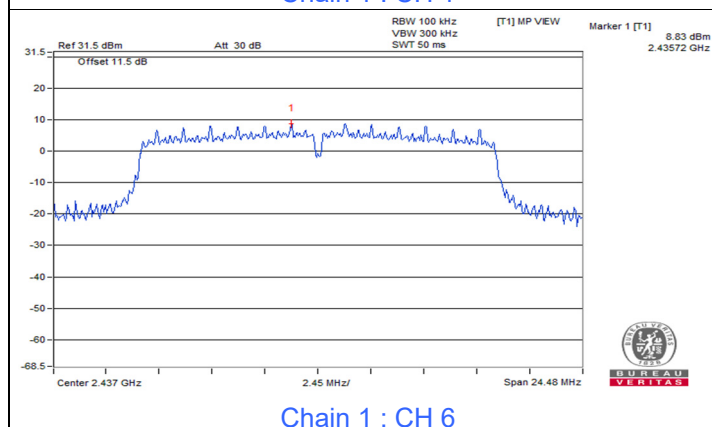
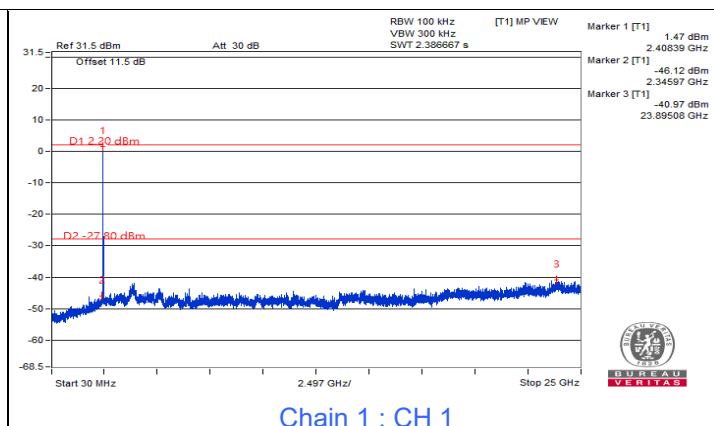
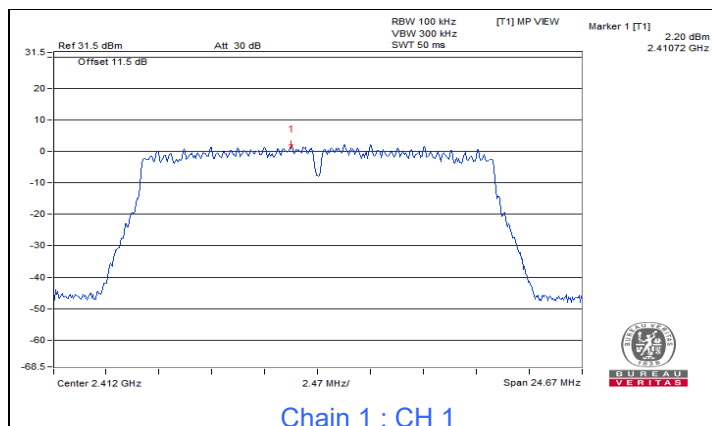


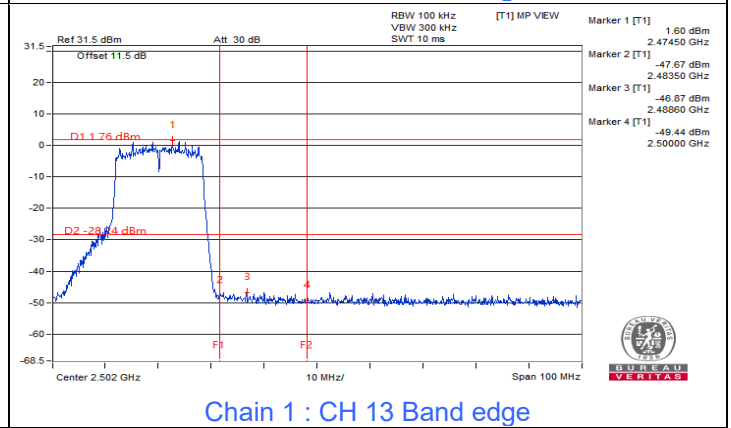
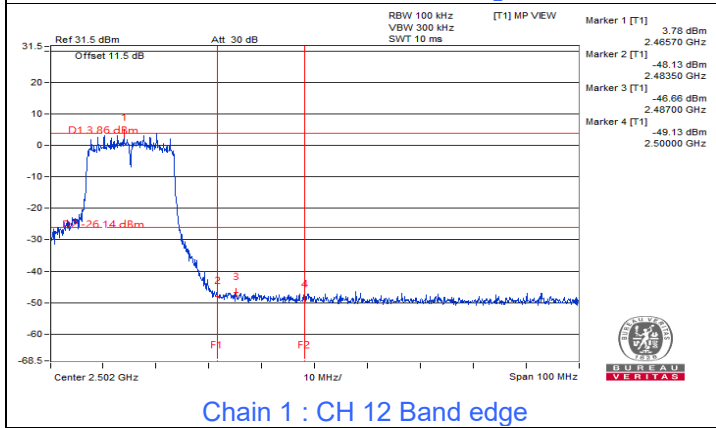
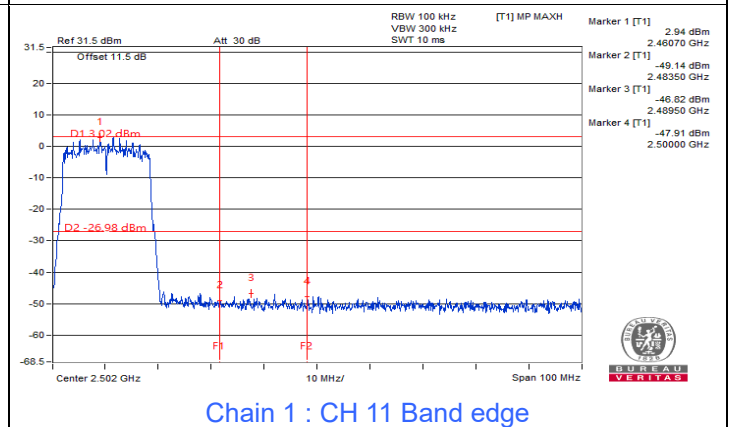
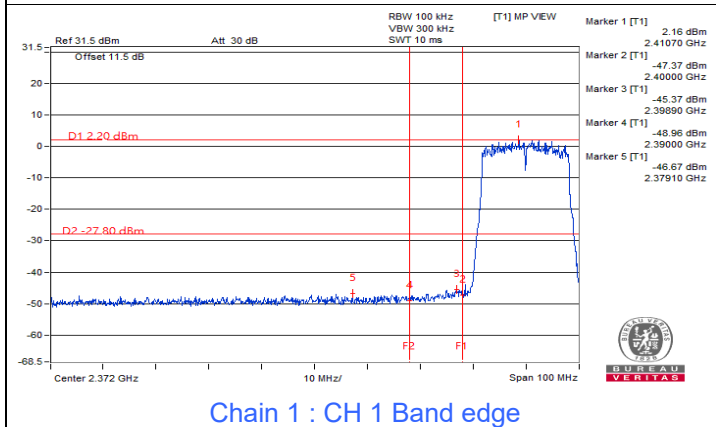
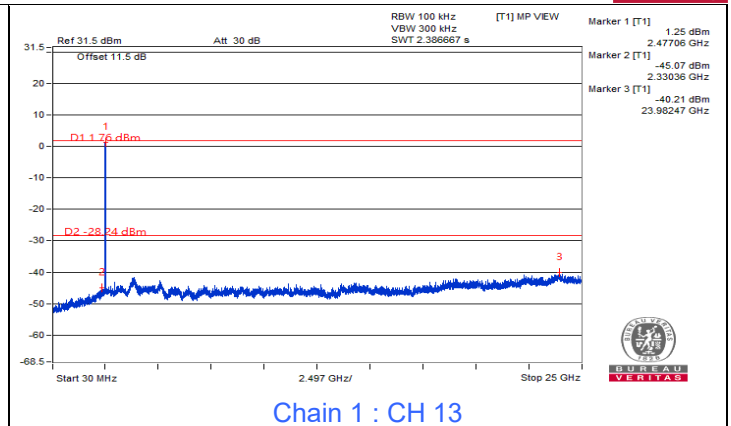
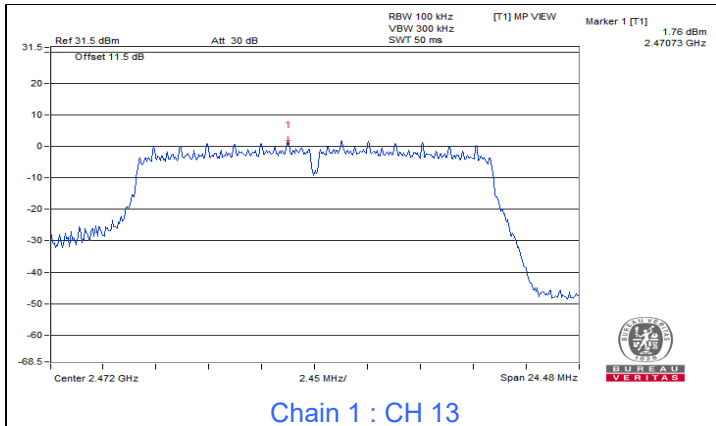


802.11g 2TX

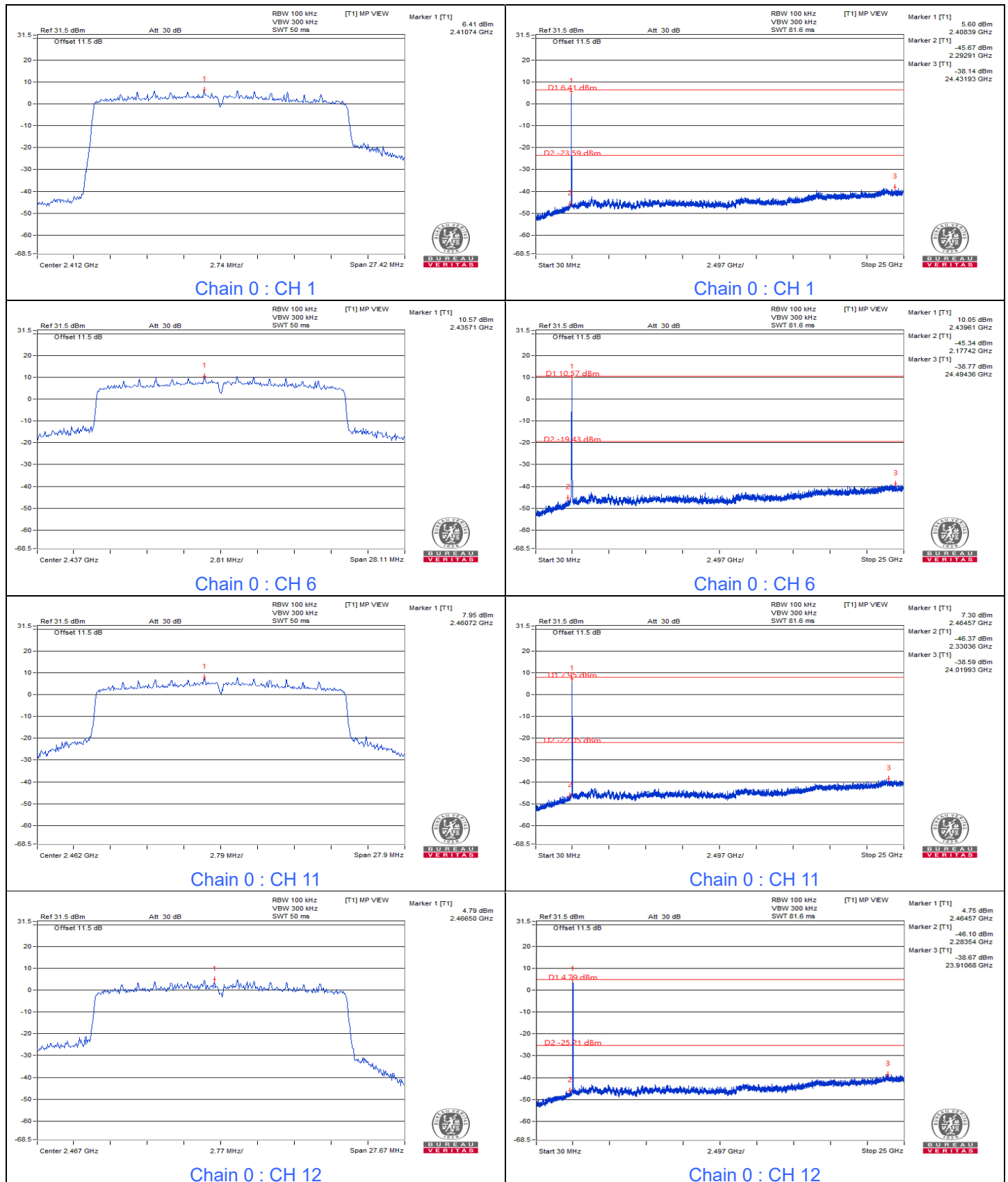


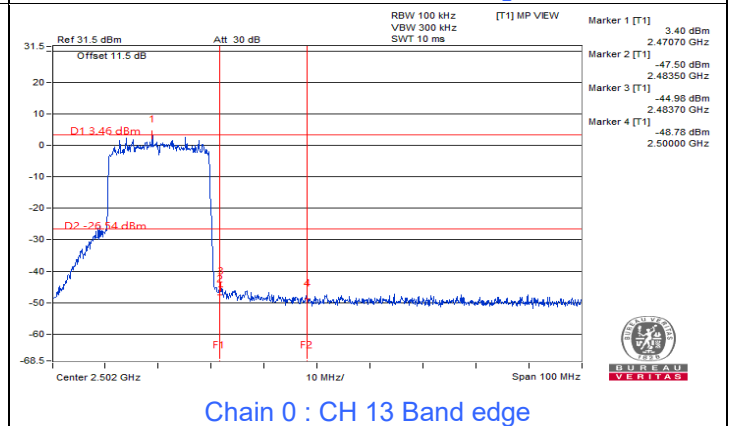
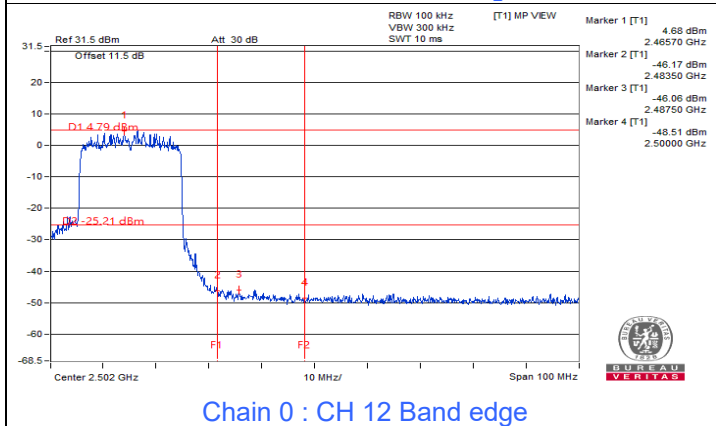
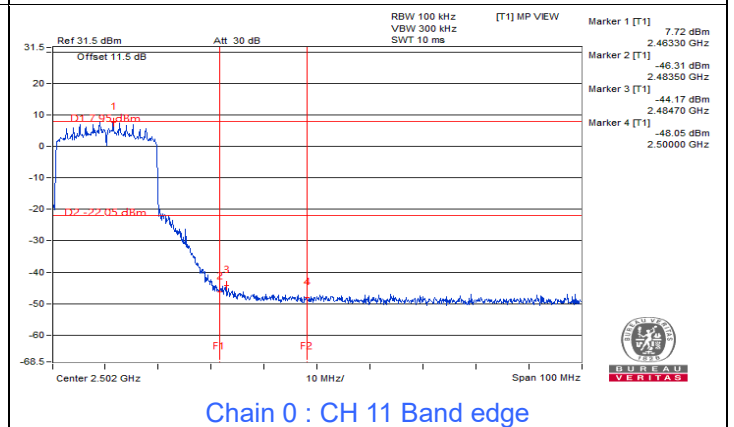
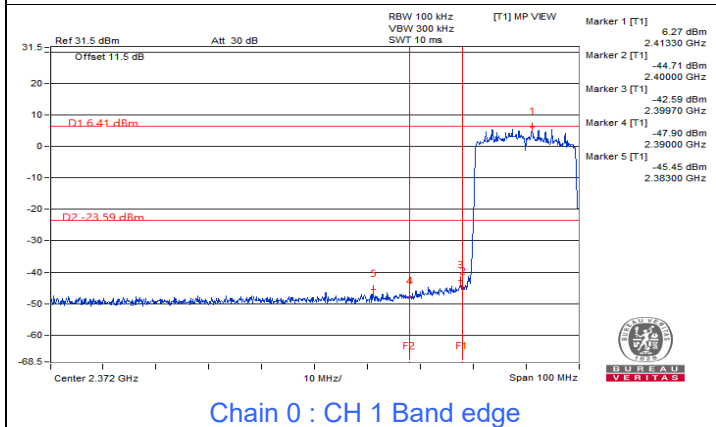
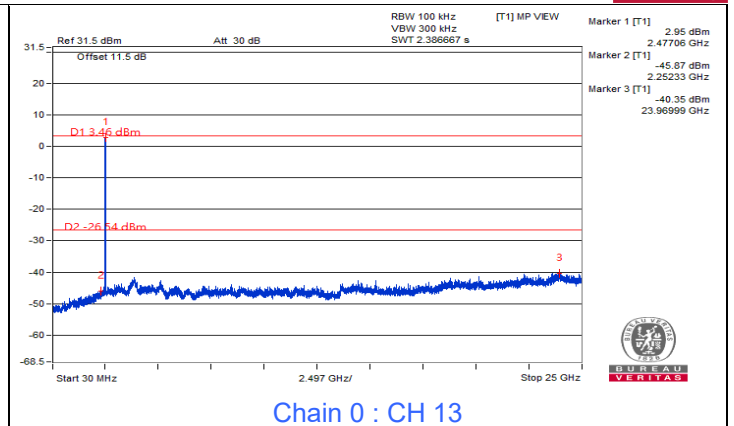
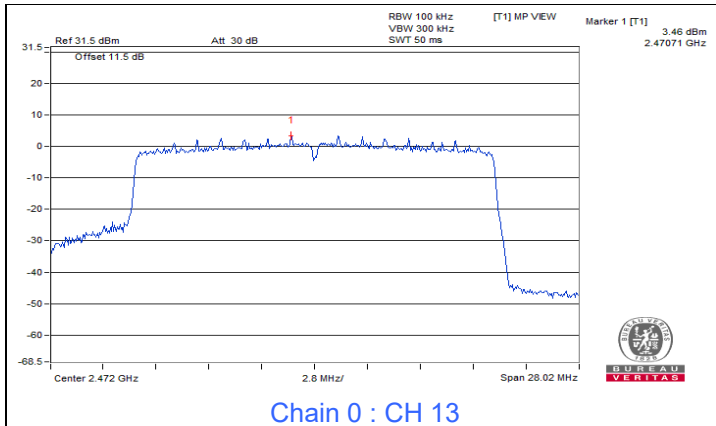


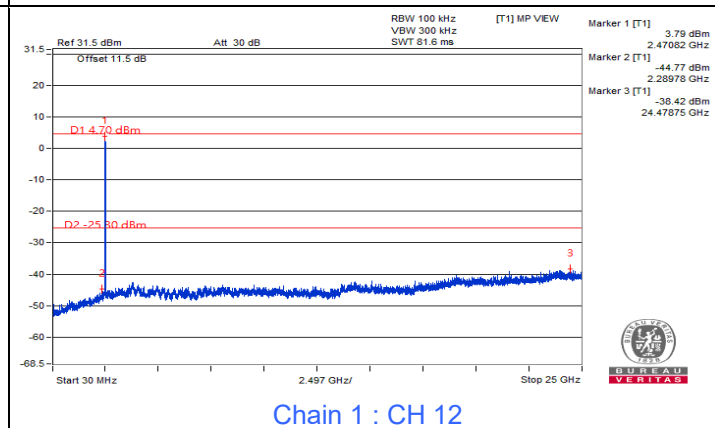
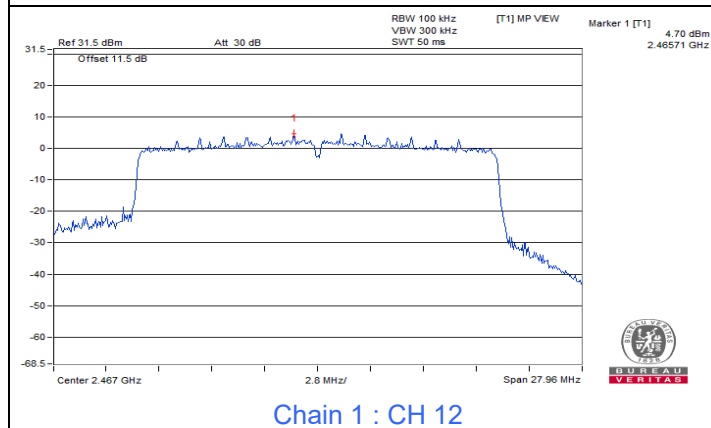
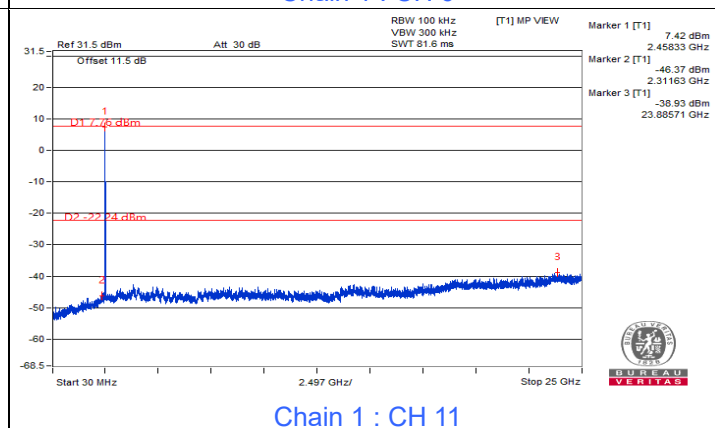
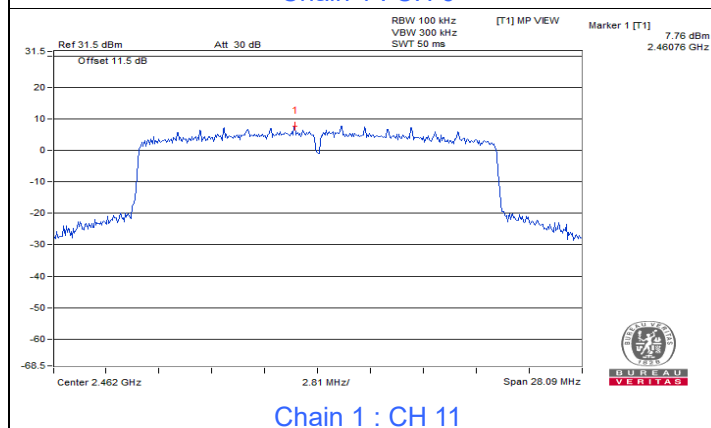
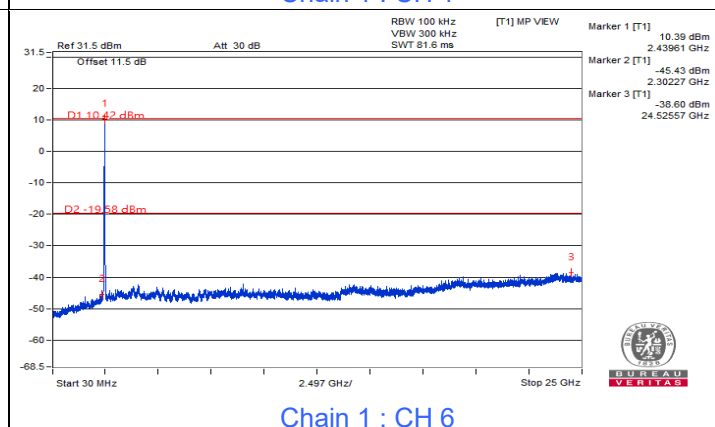
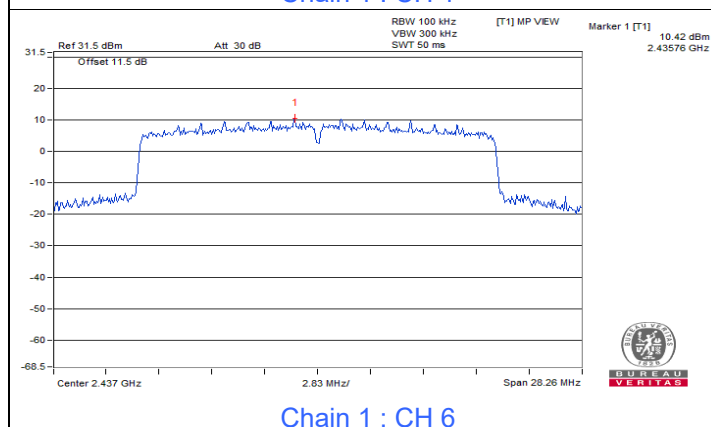
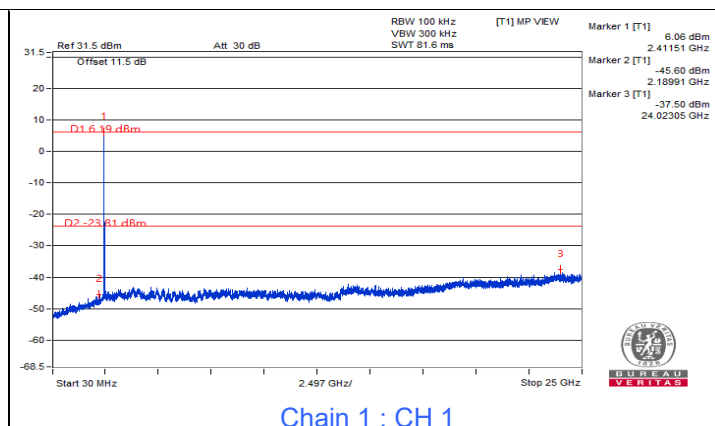
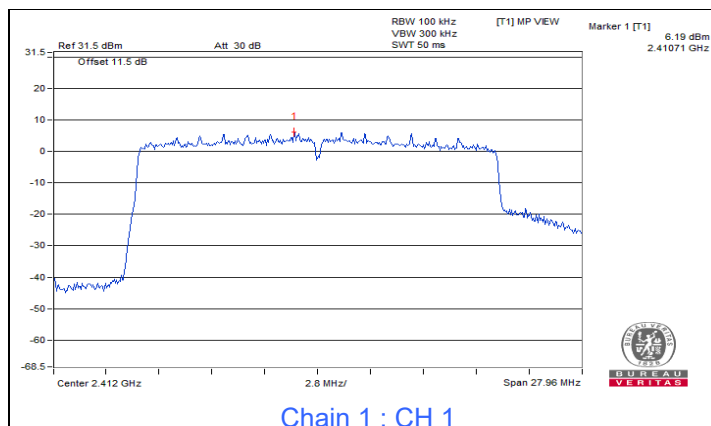


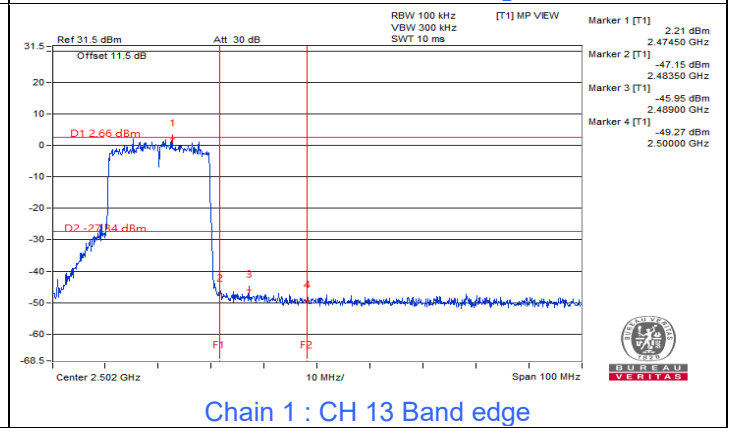
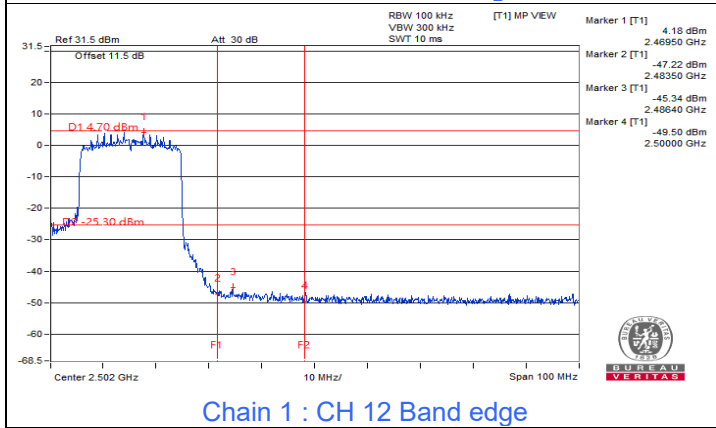
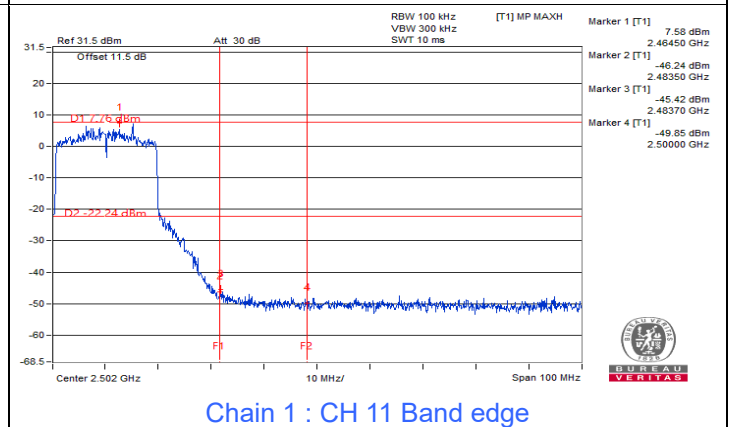
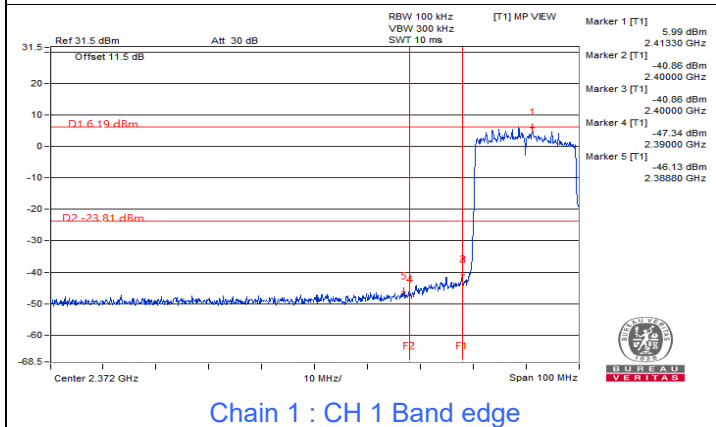
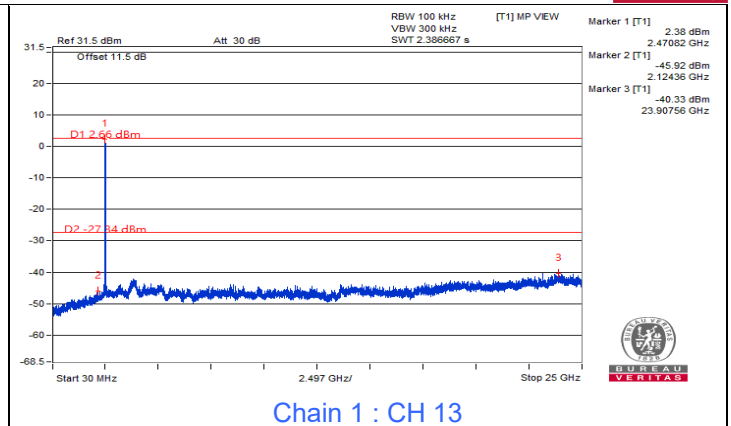
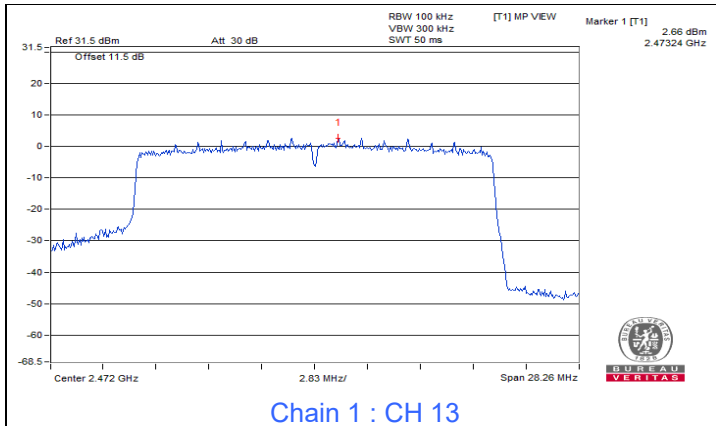


802.11be (EHT20) 2S2T

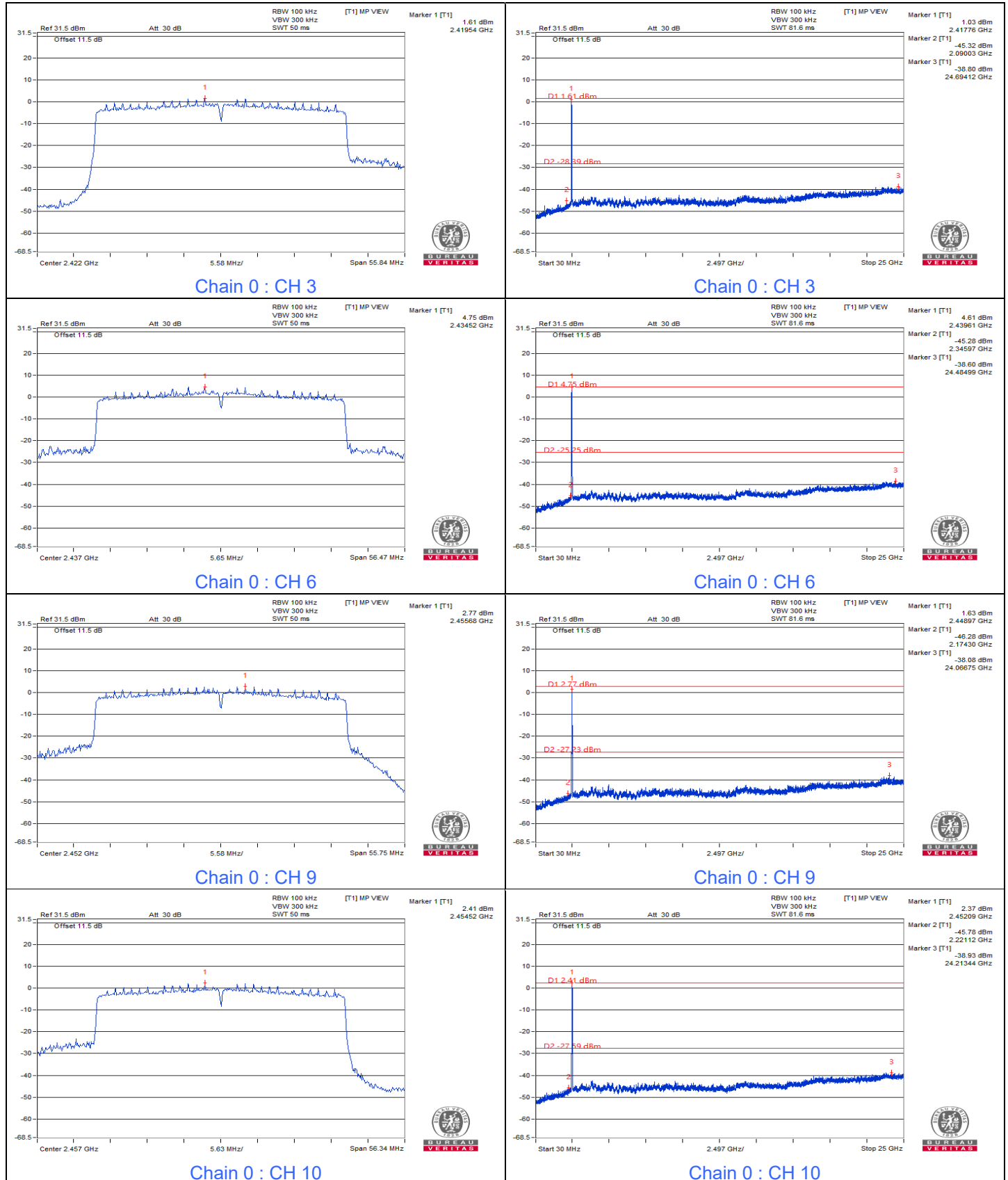


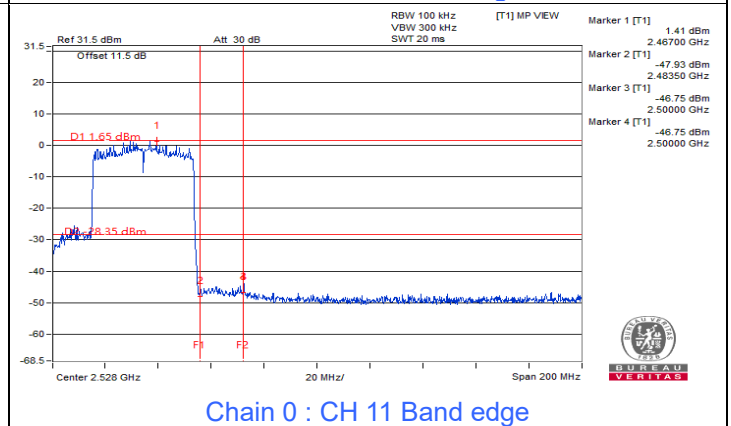
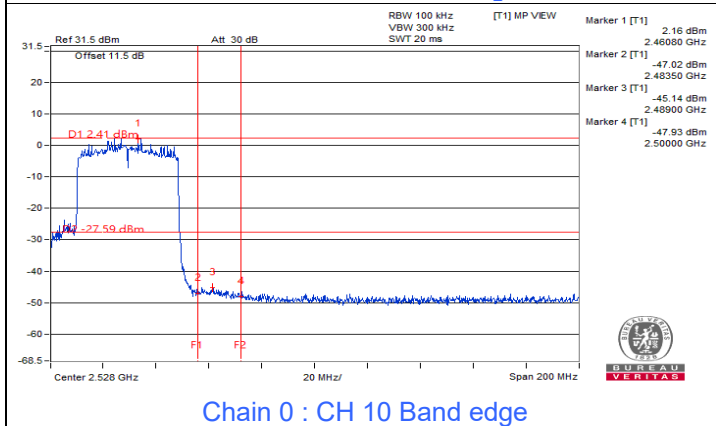
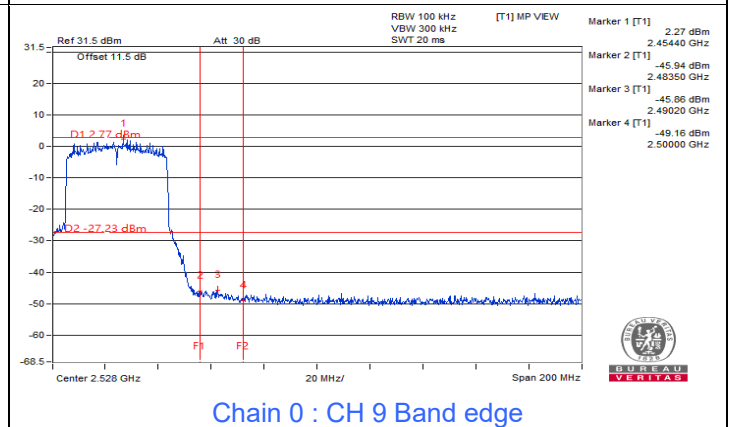
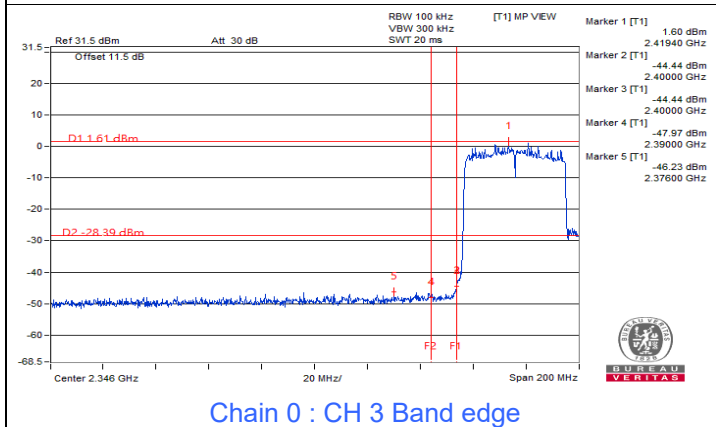
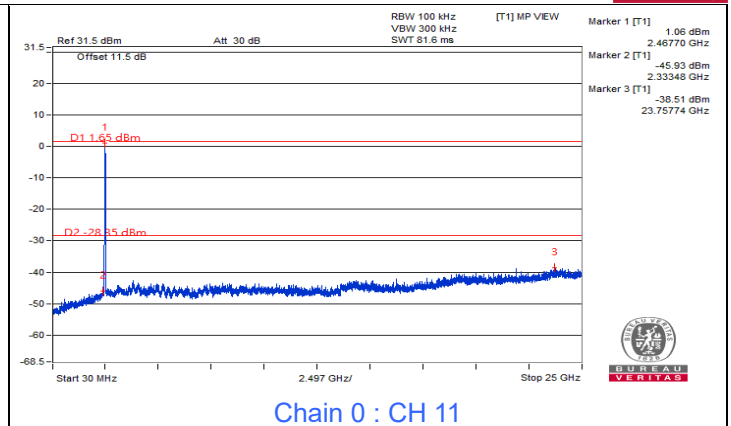
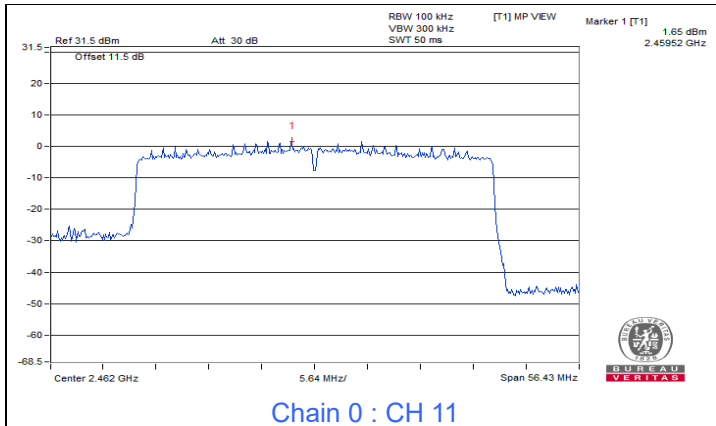


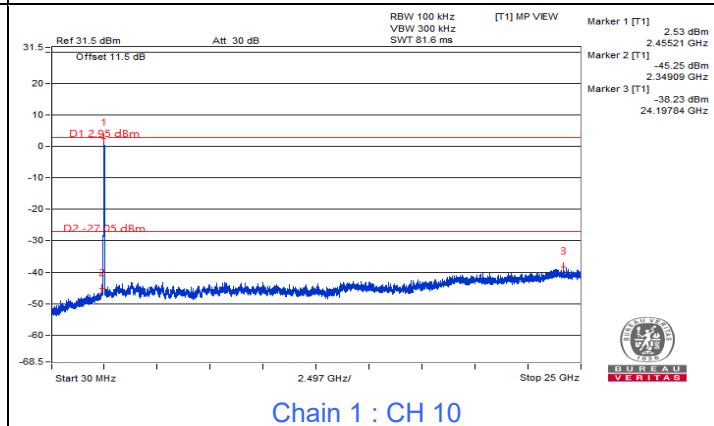
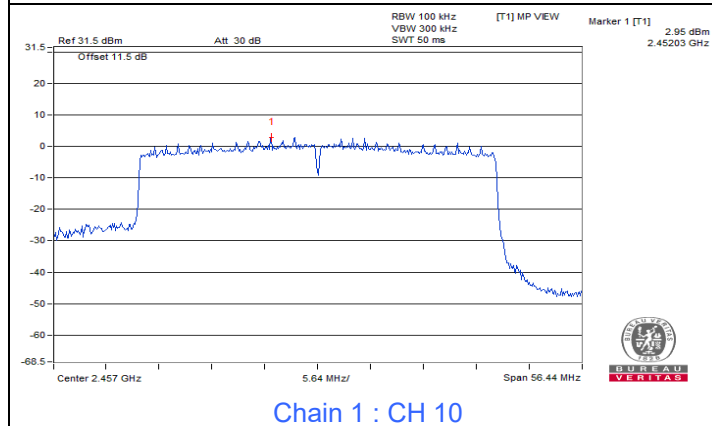
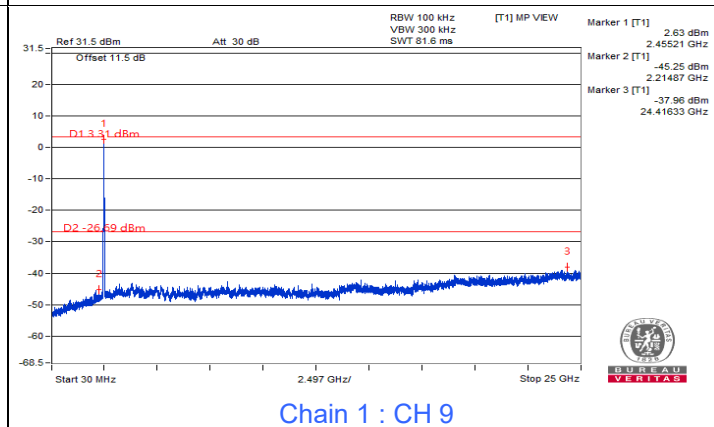
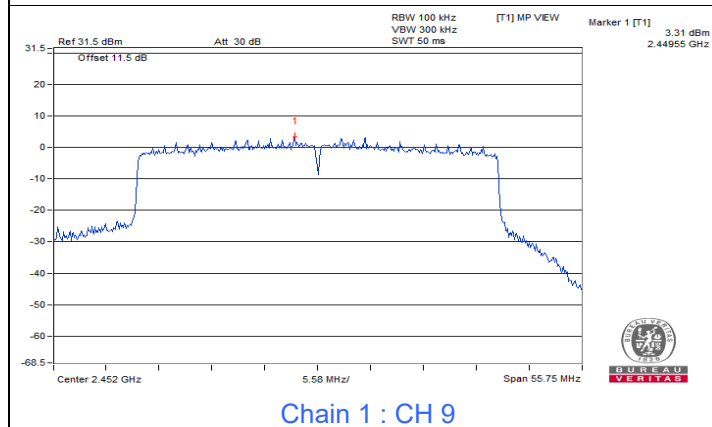
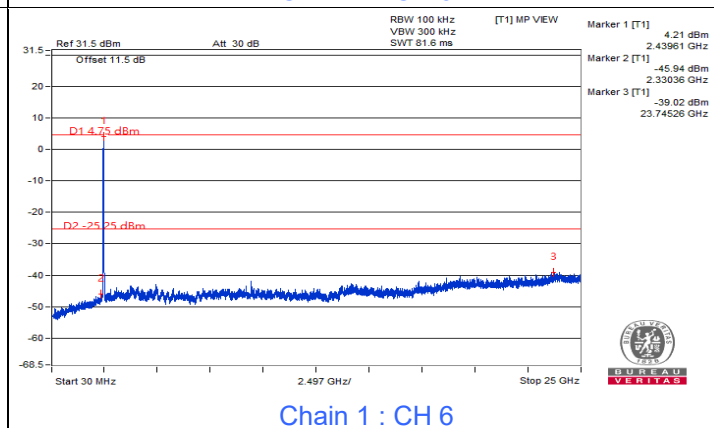
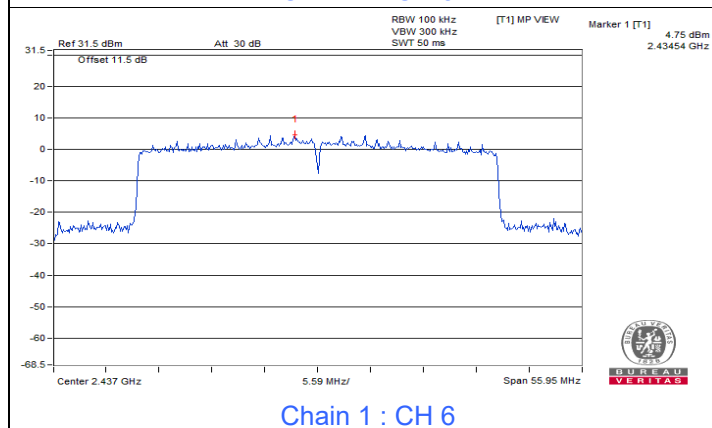
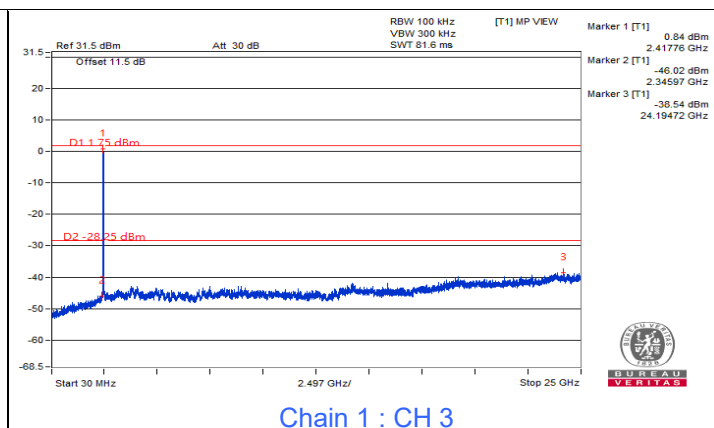
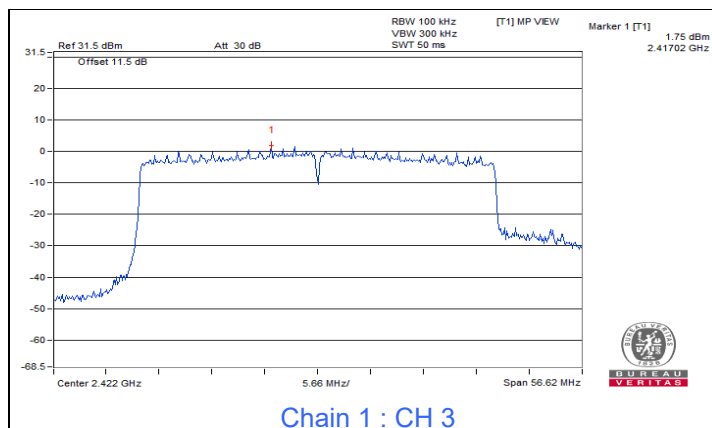


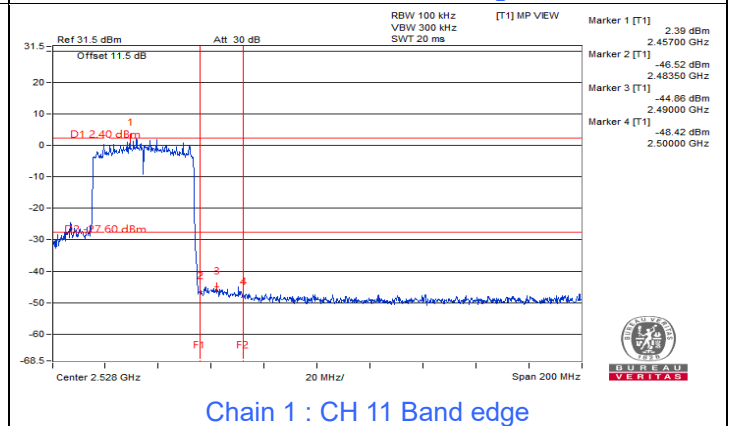
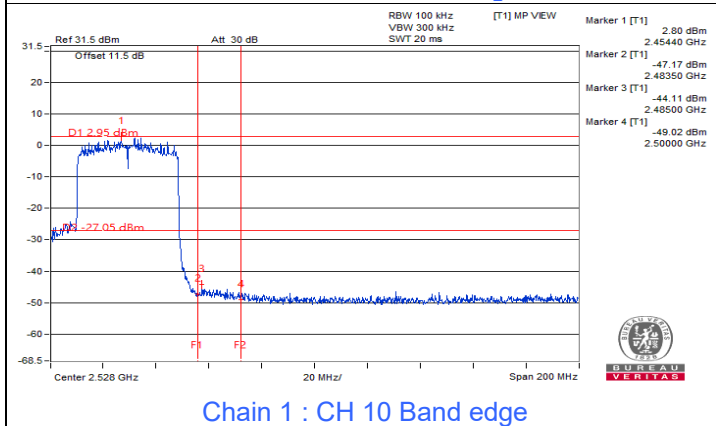
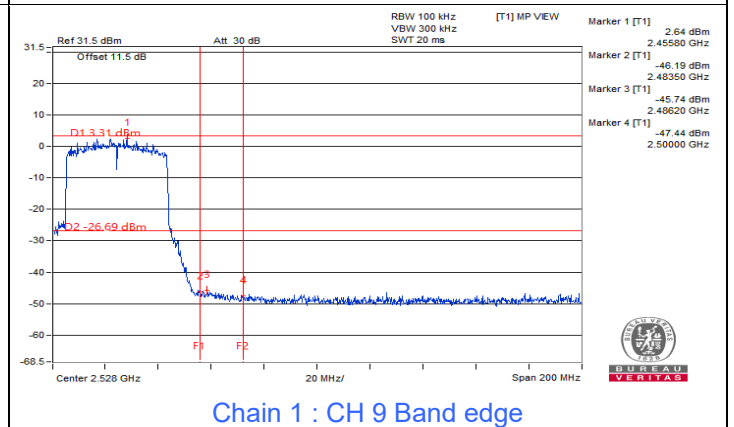
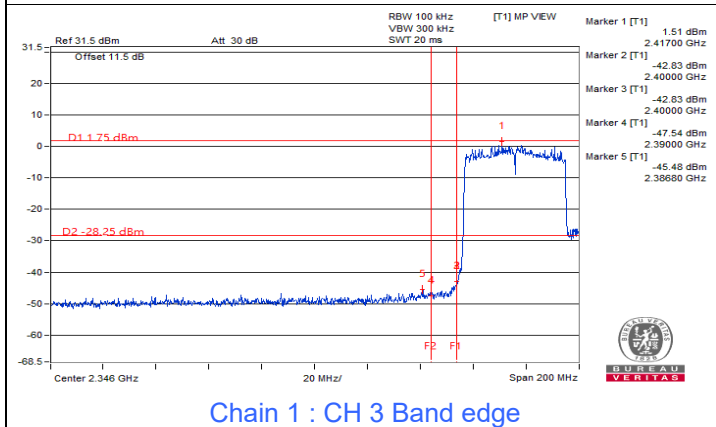
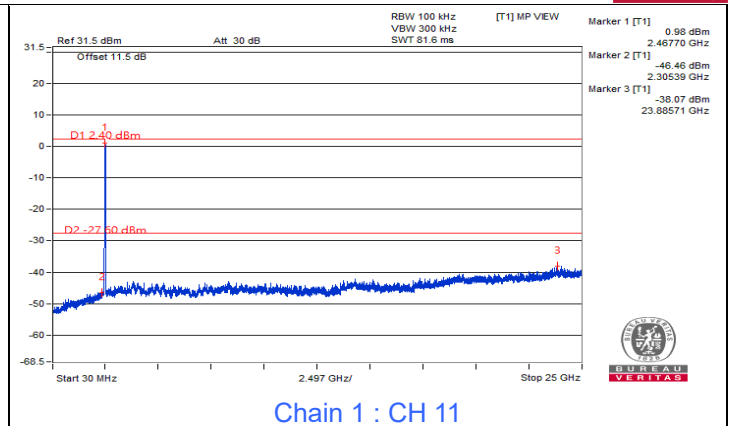
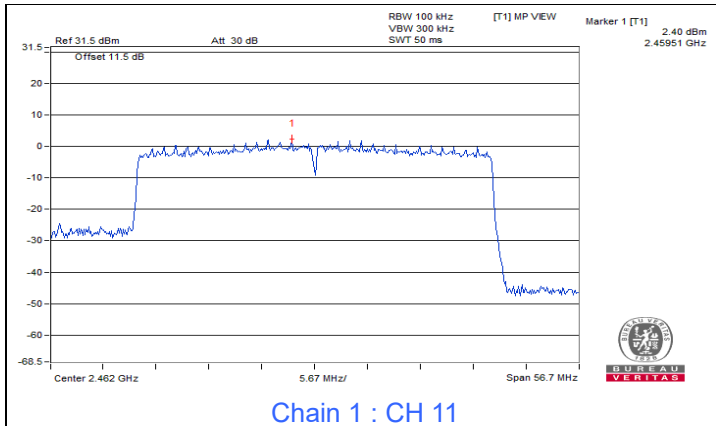


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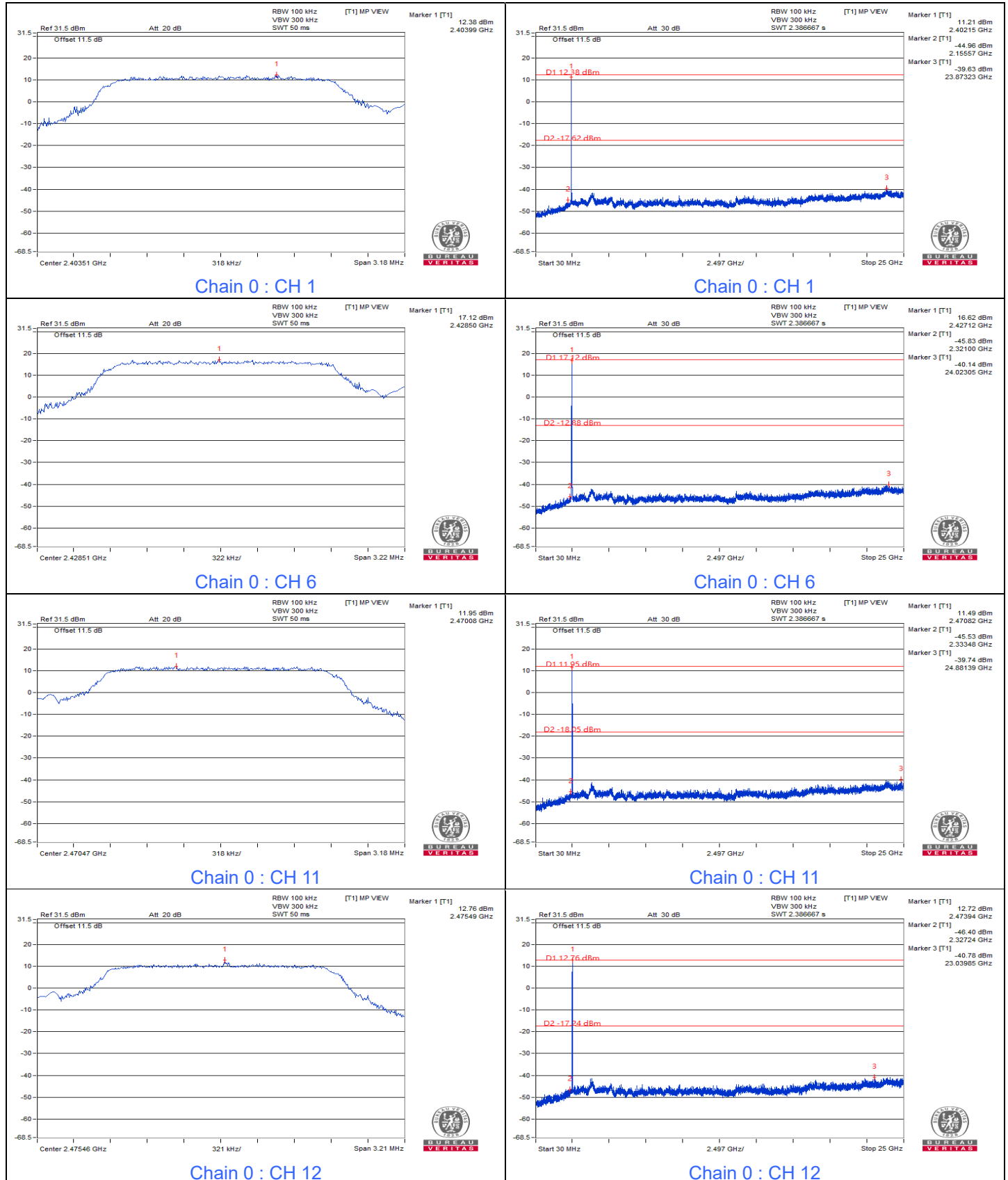


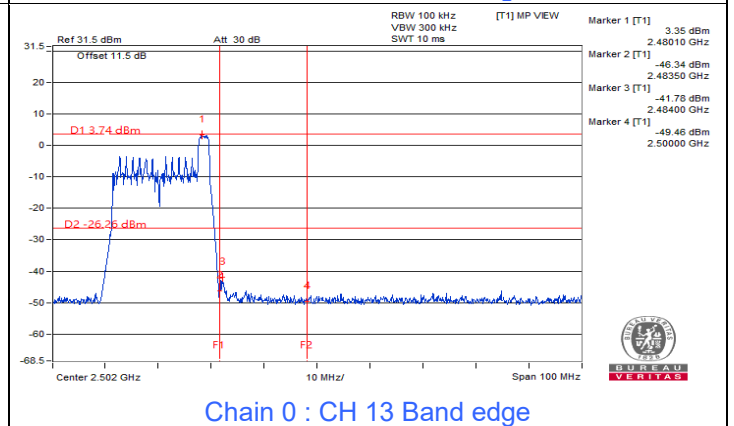
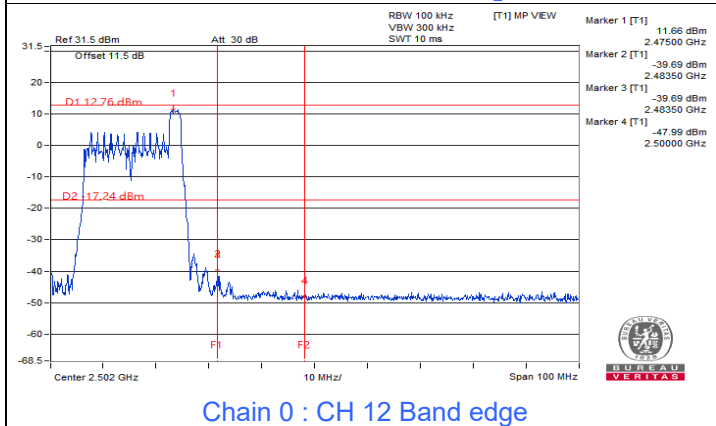
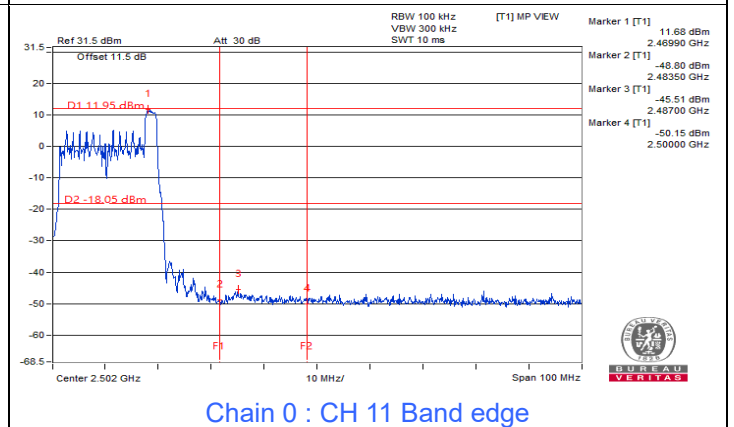
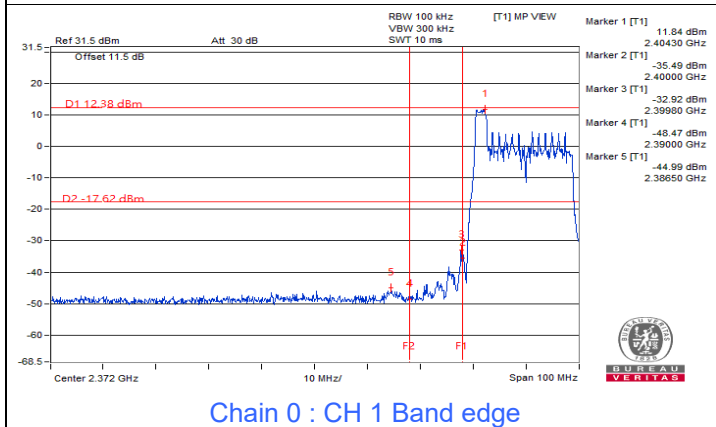
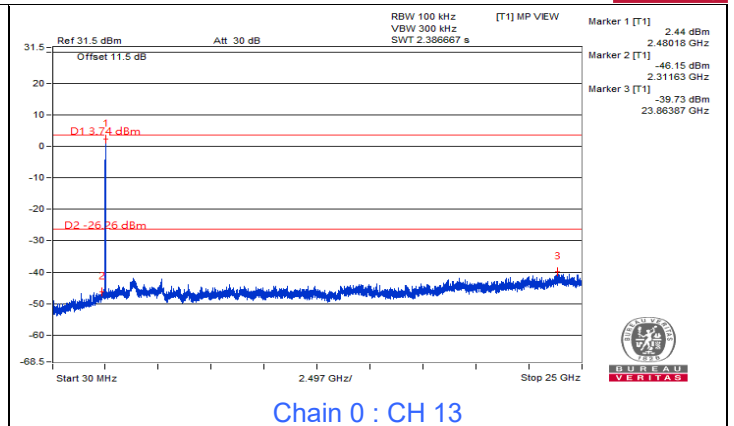
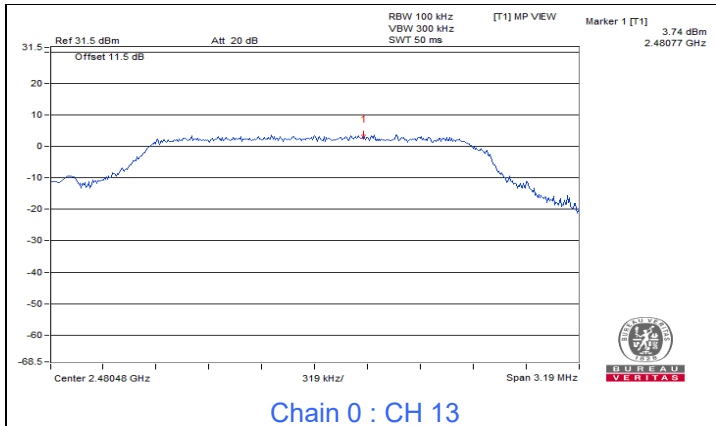


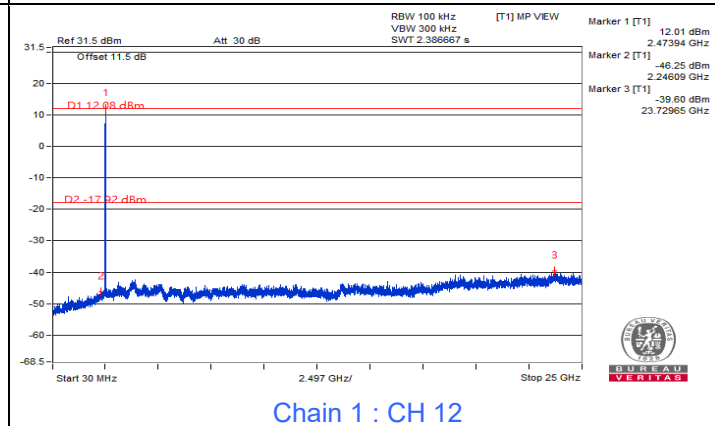
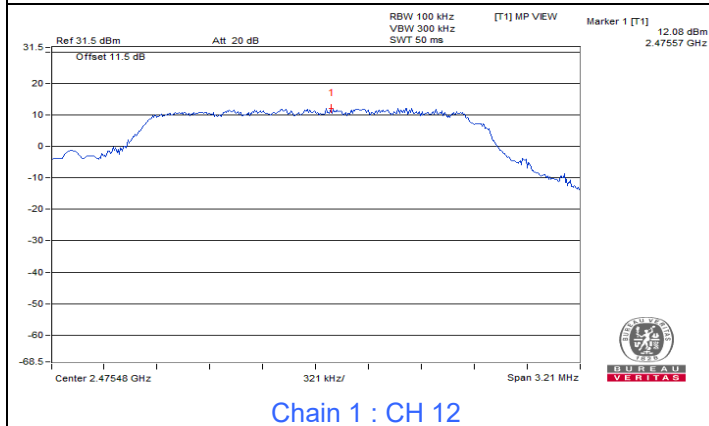
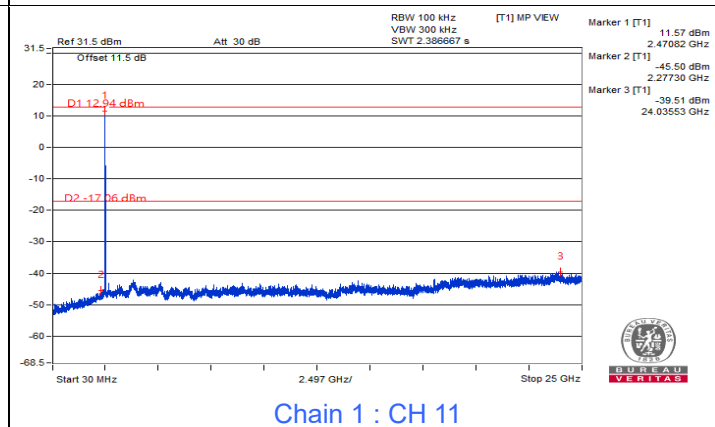
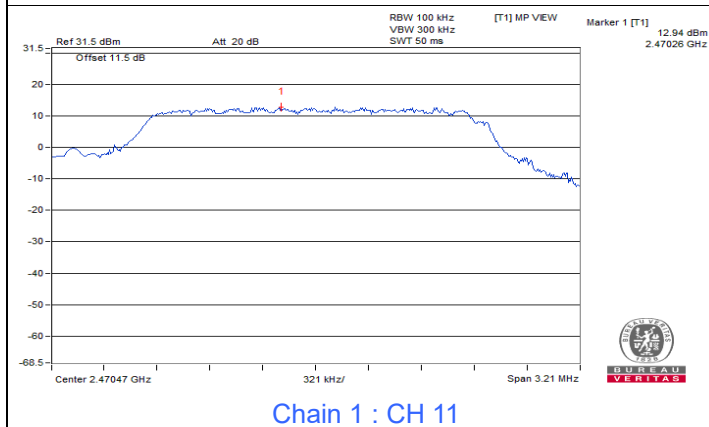
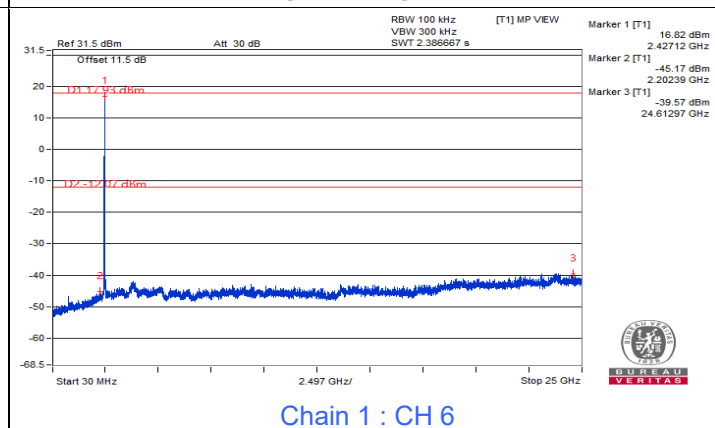
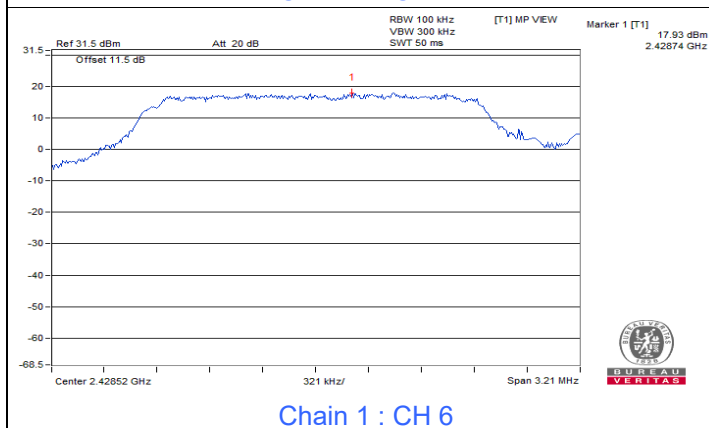
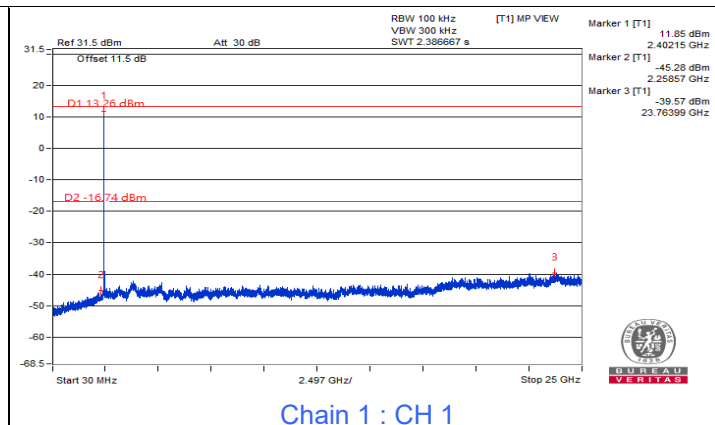
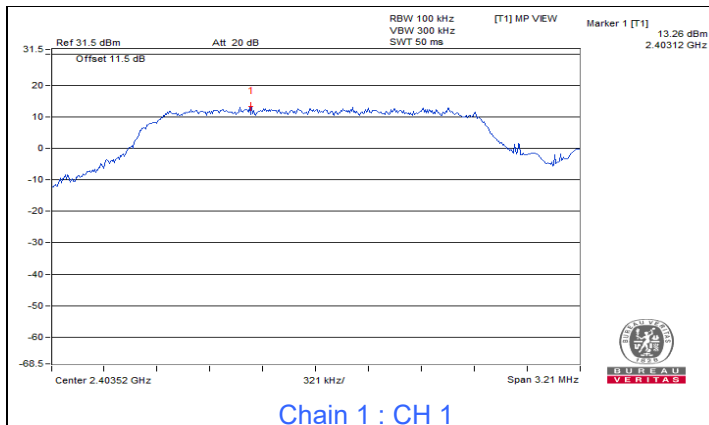


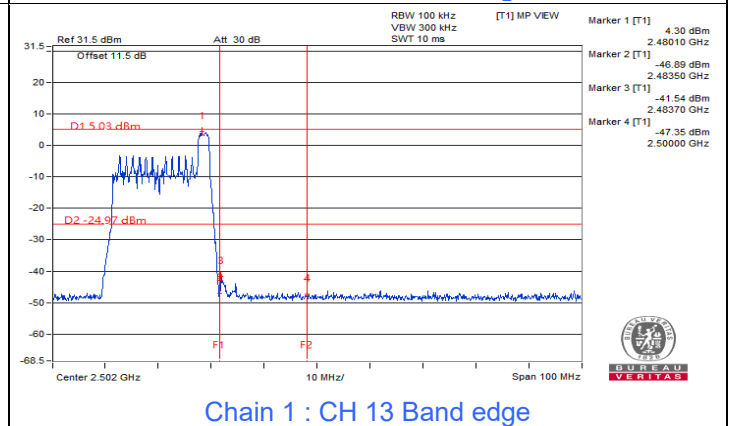
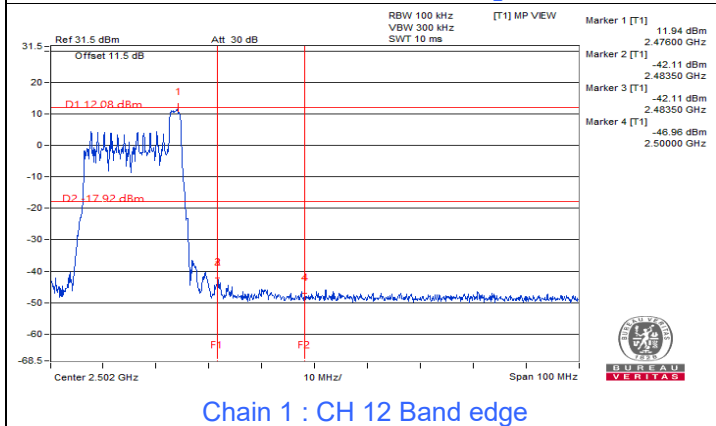
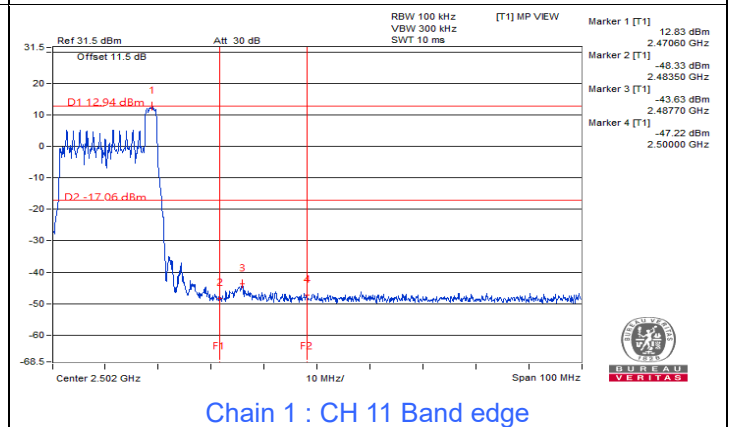
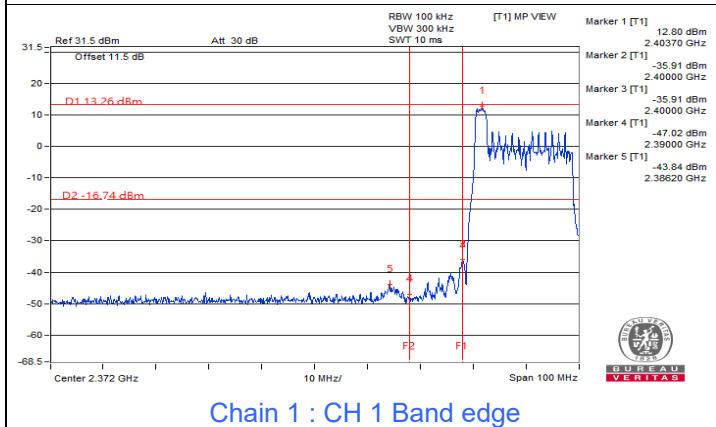
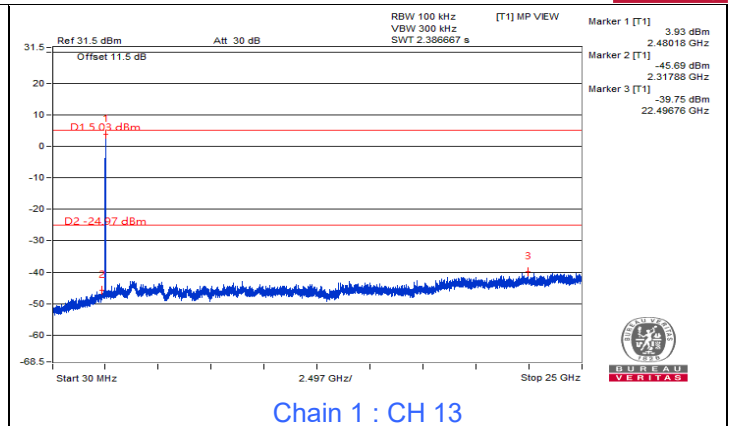
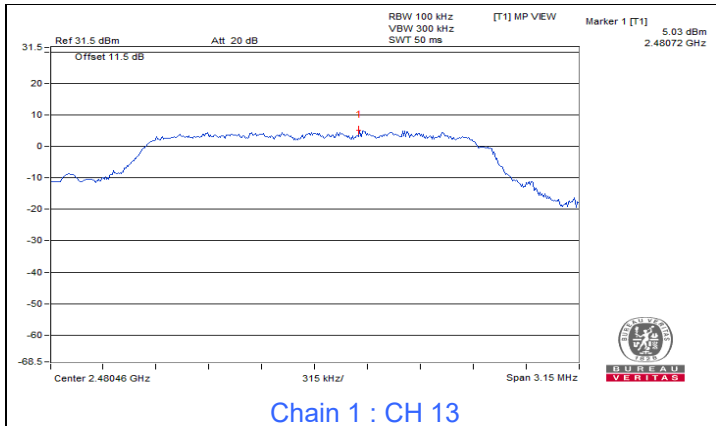


802.11be (EHT20) 26-tone RU 2S2T

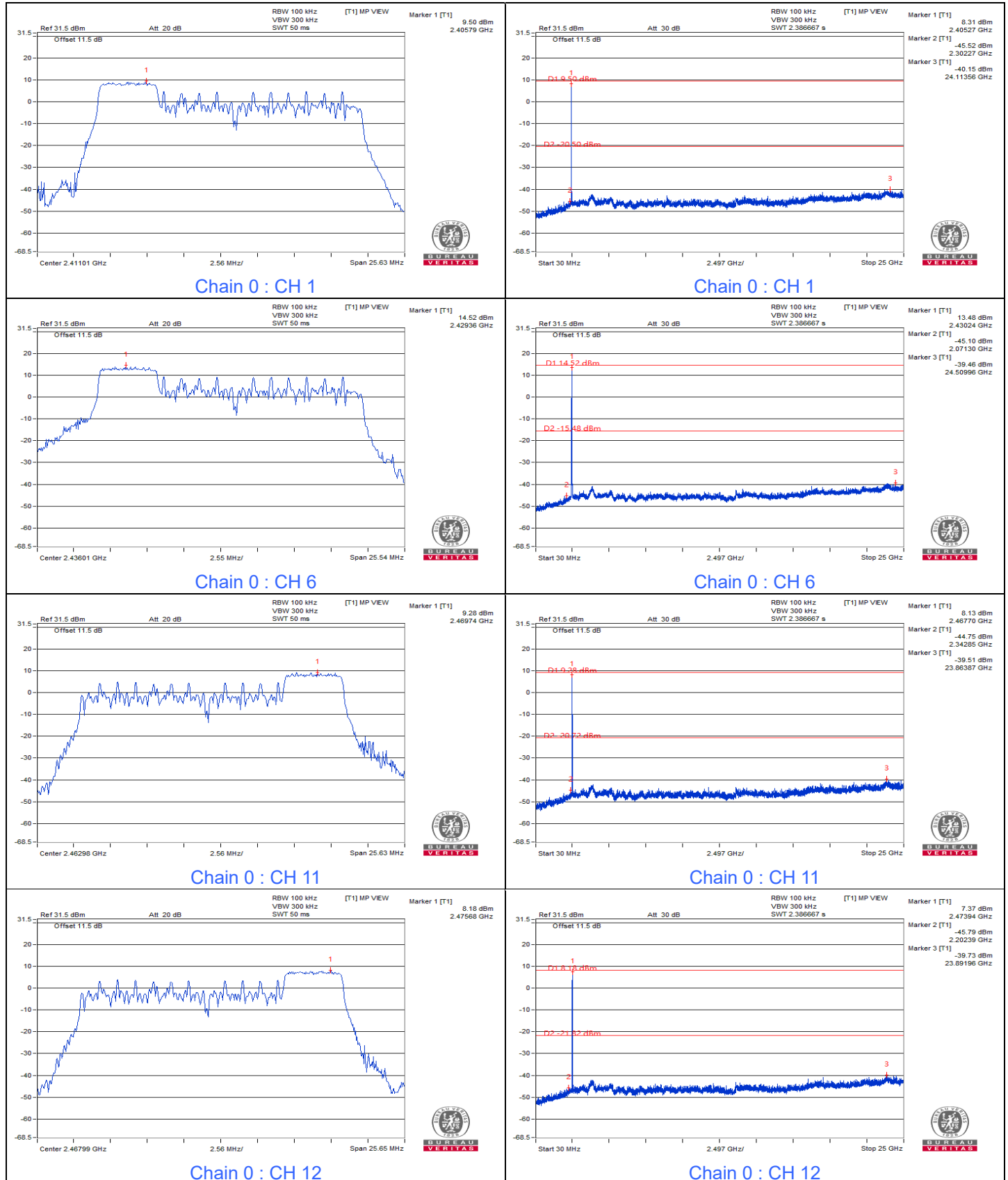


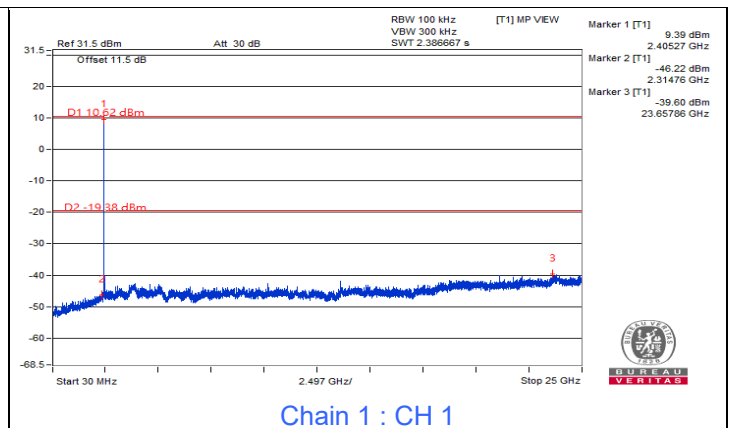
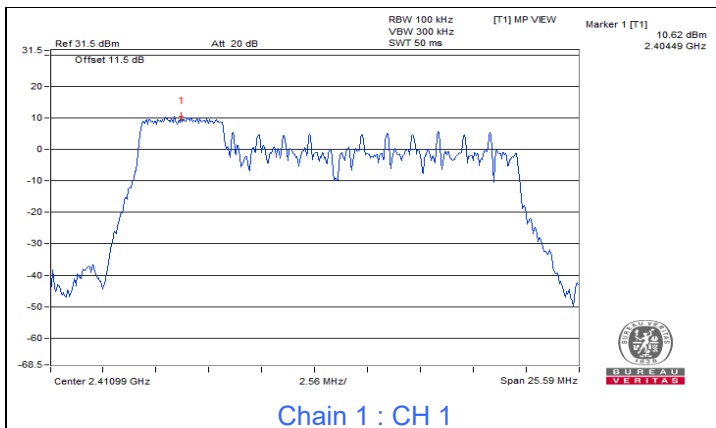
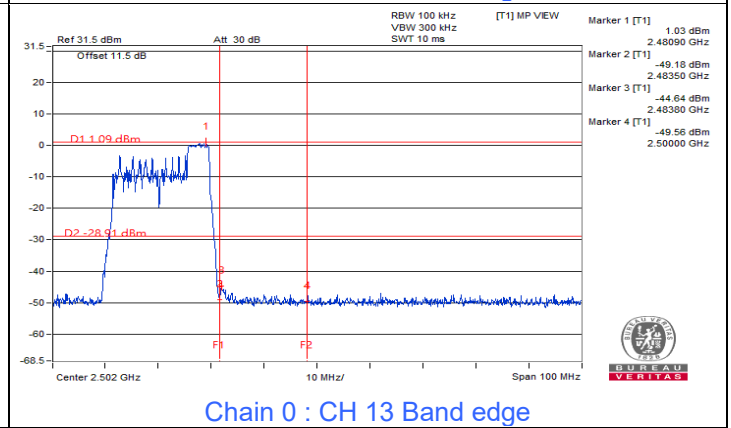
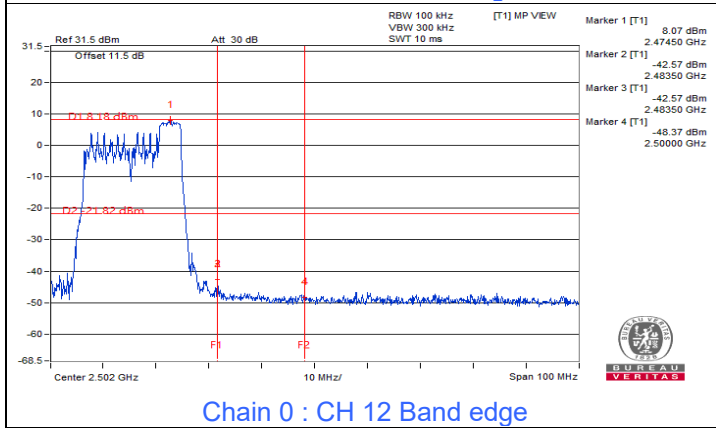
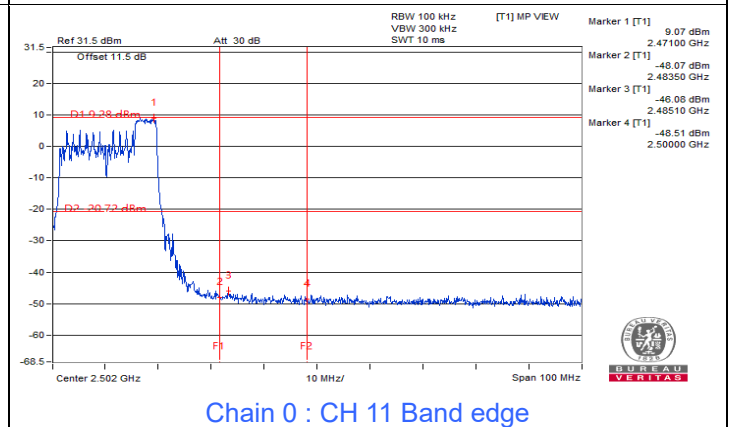
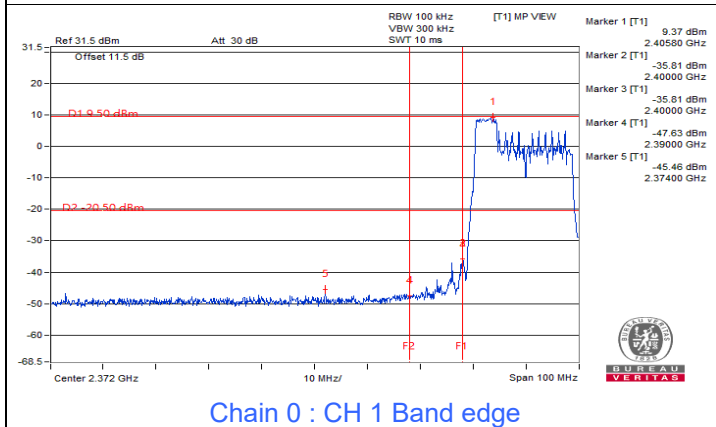
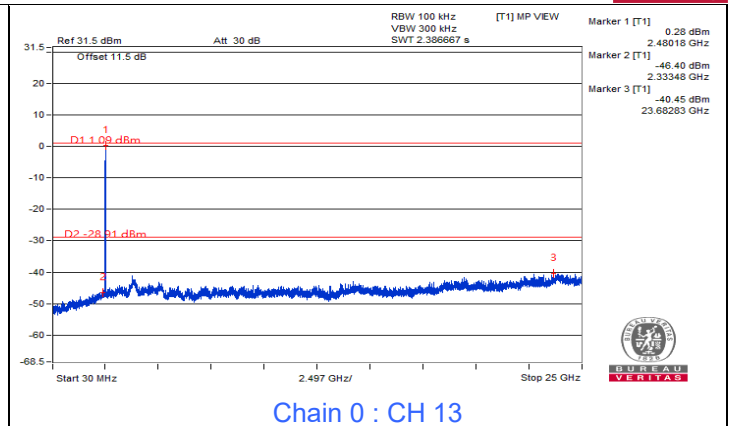
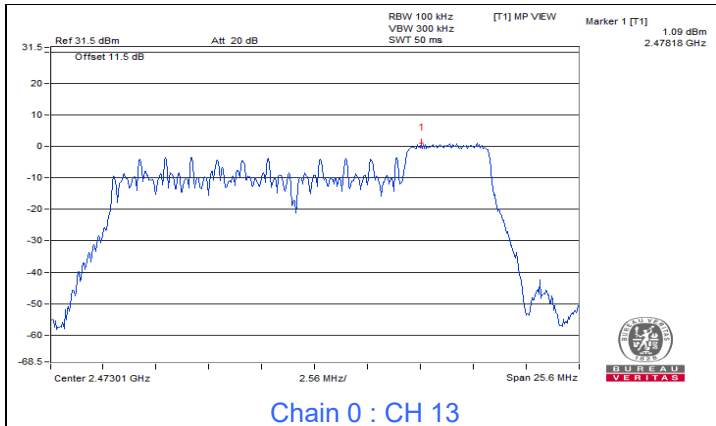


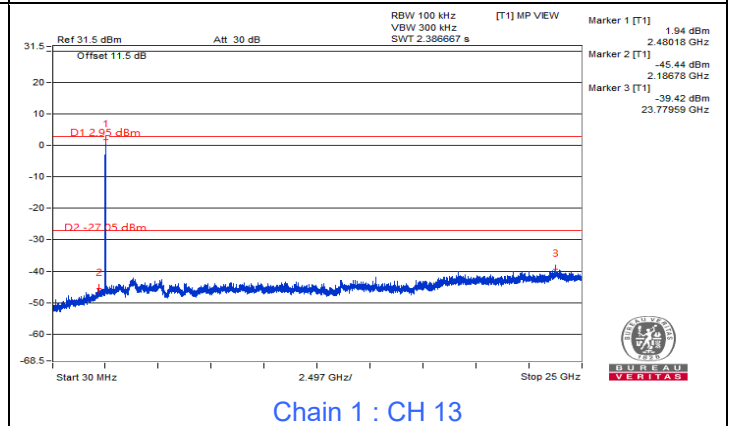
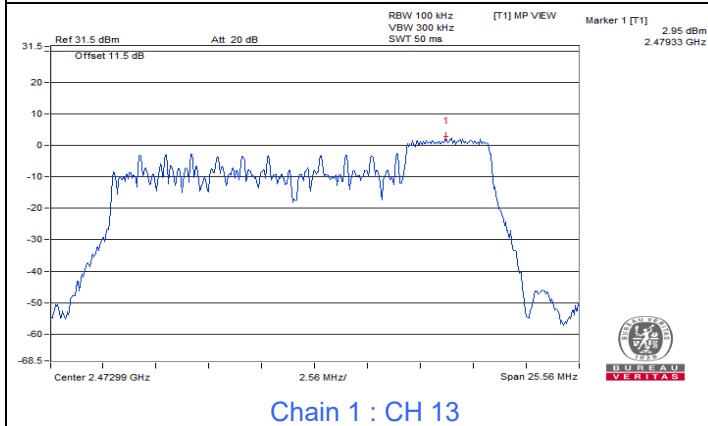
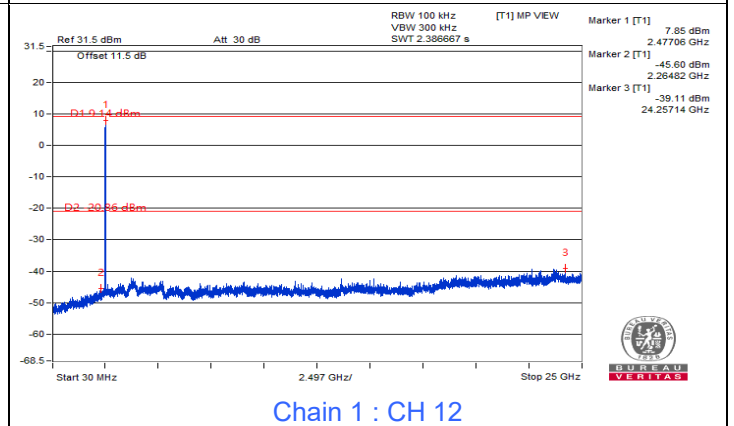
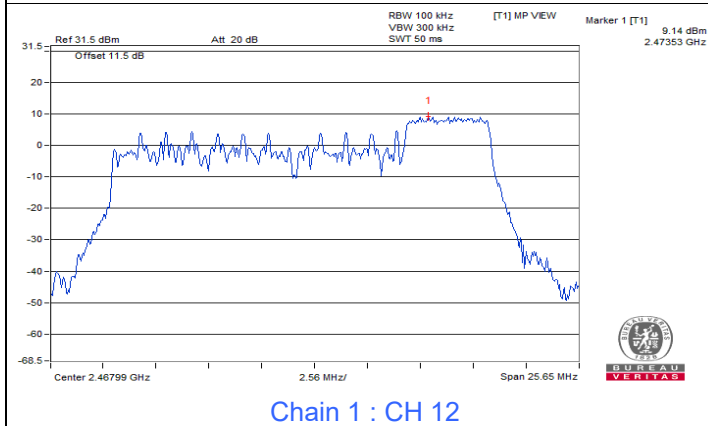
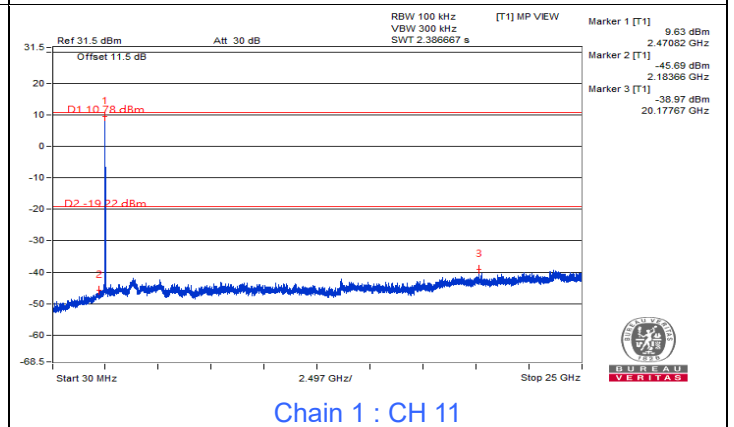
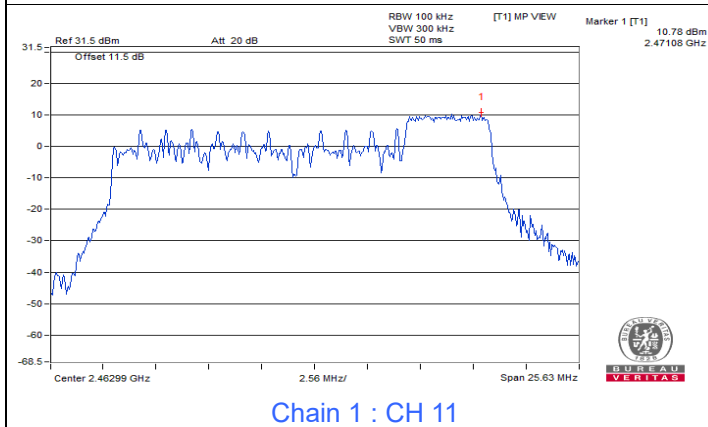
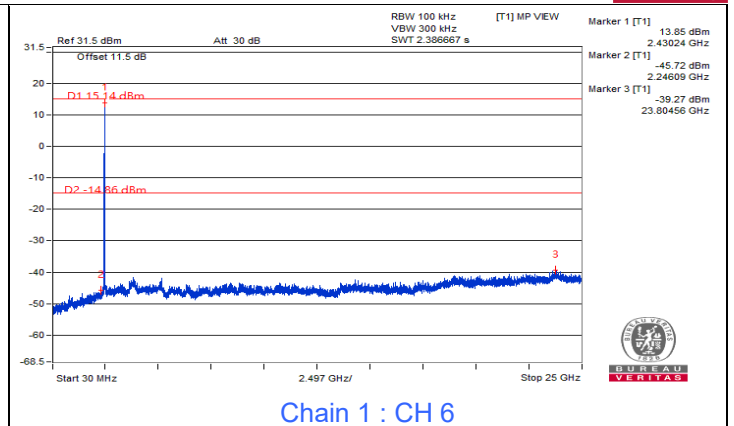
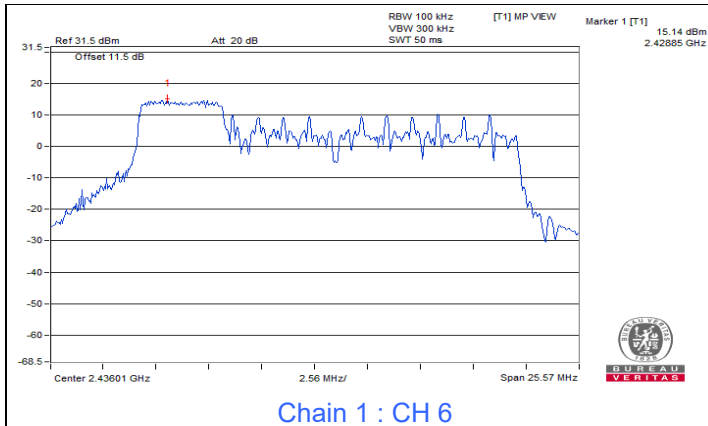


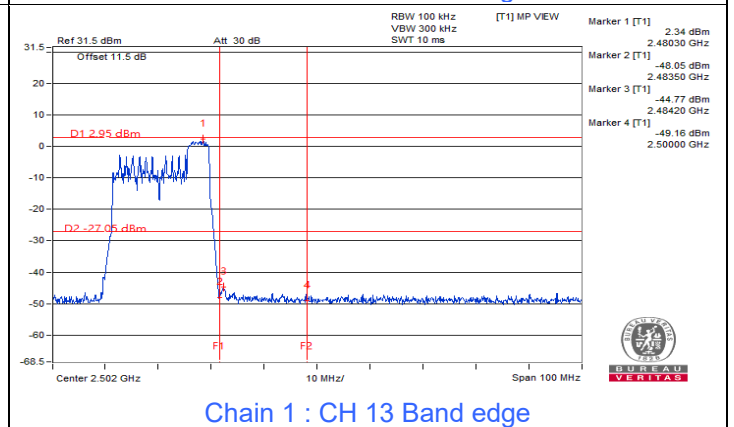
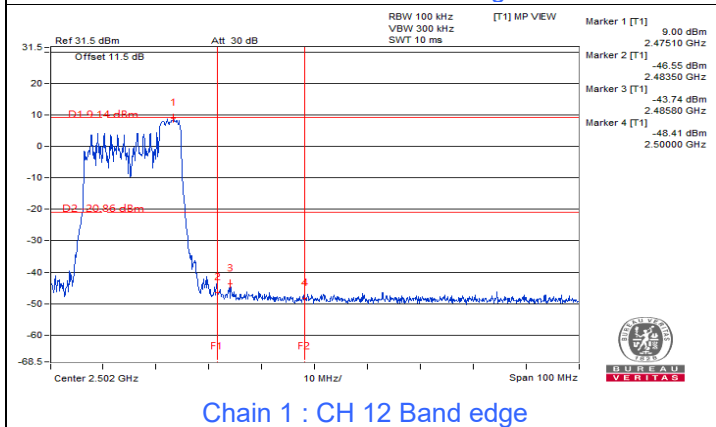
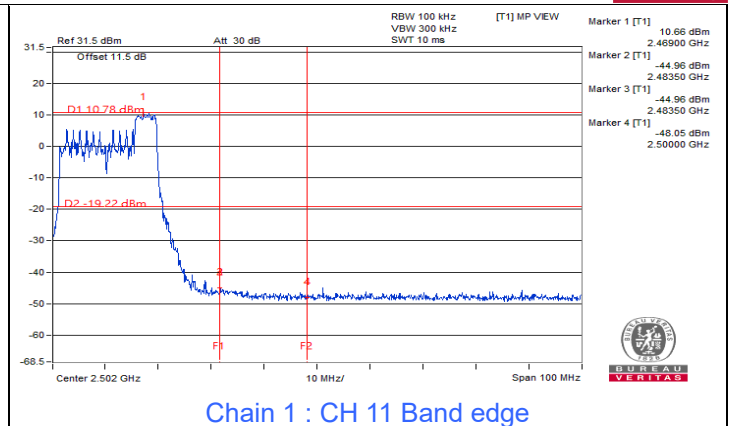
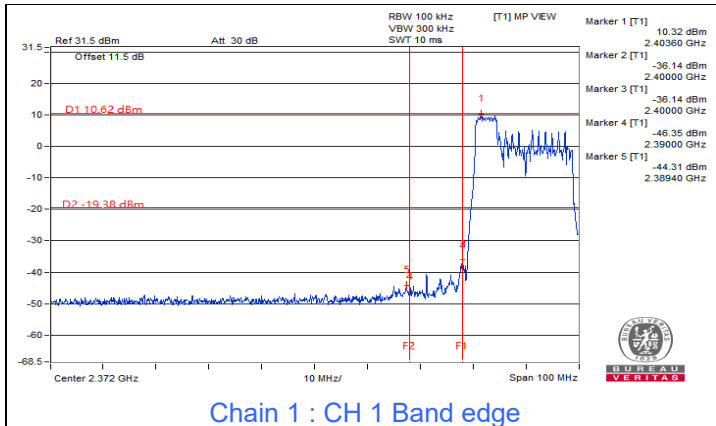


802.11be (EHT20) 52-tone RU 2S2T

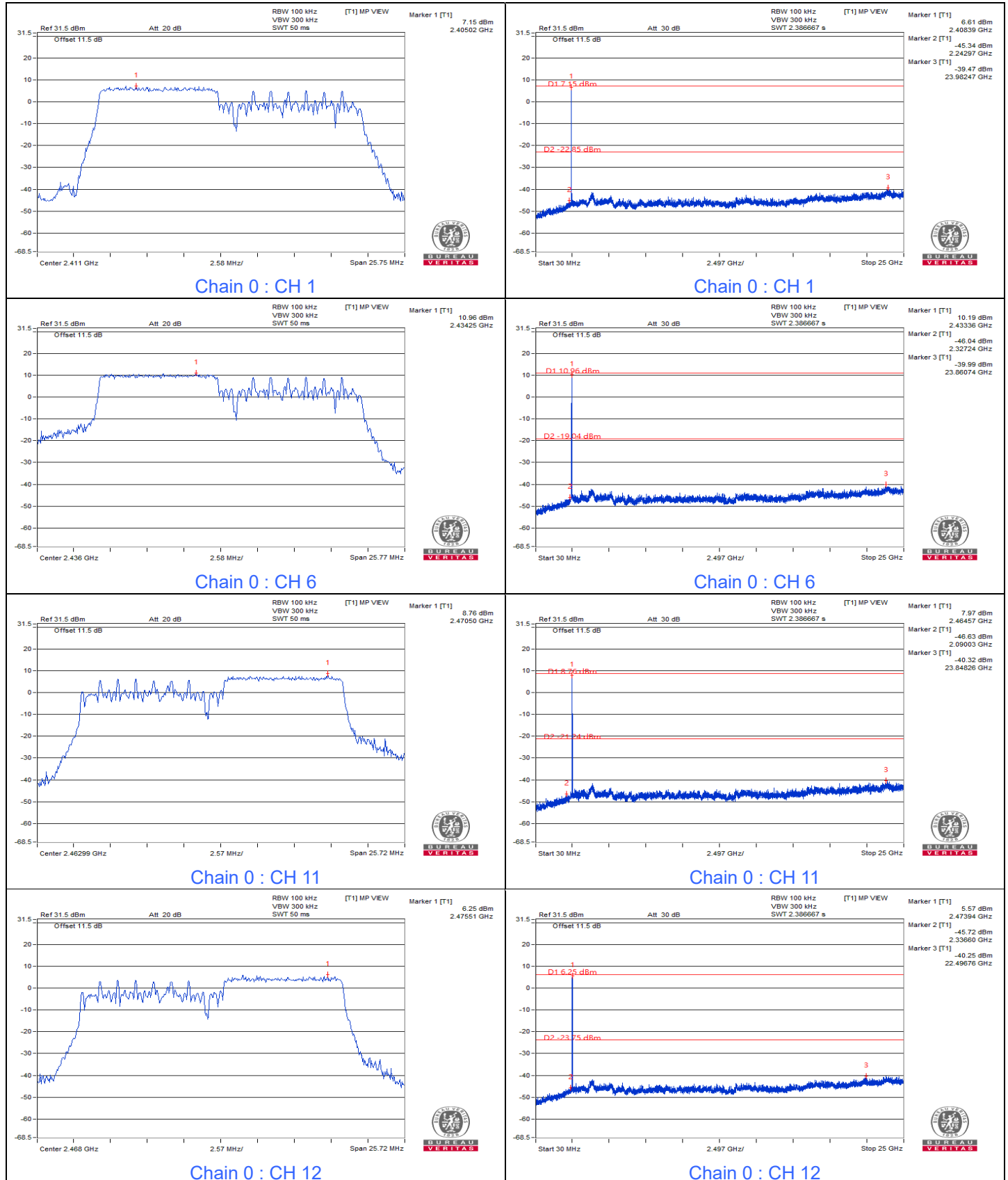


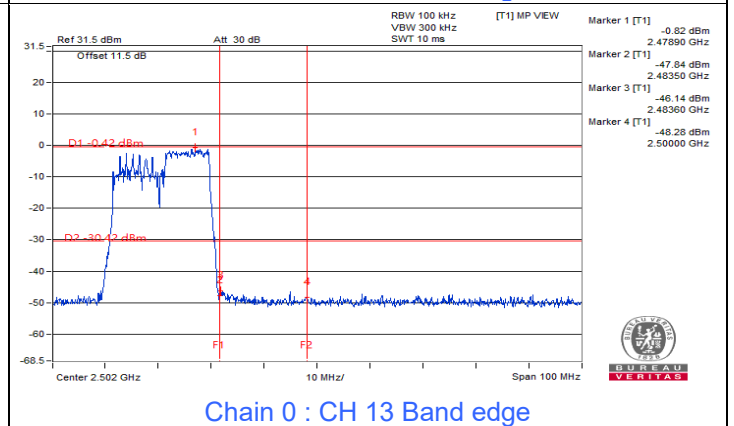
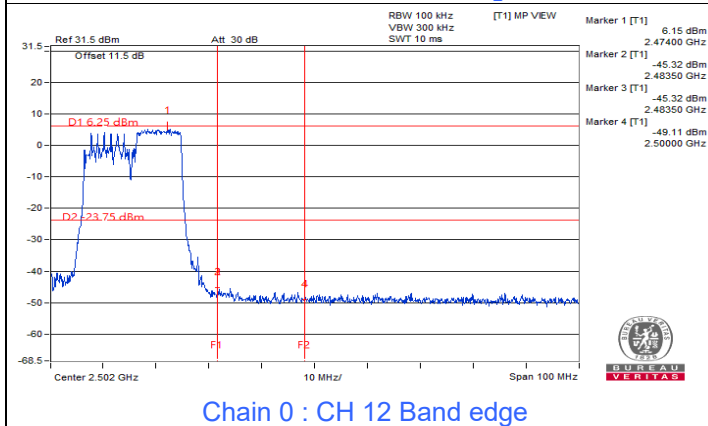
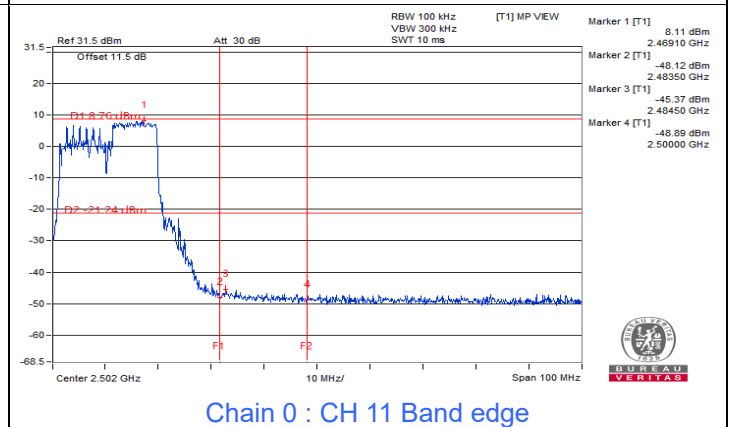
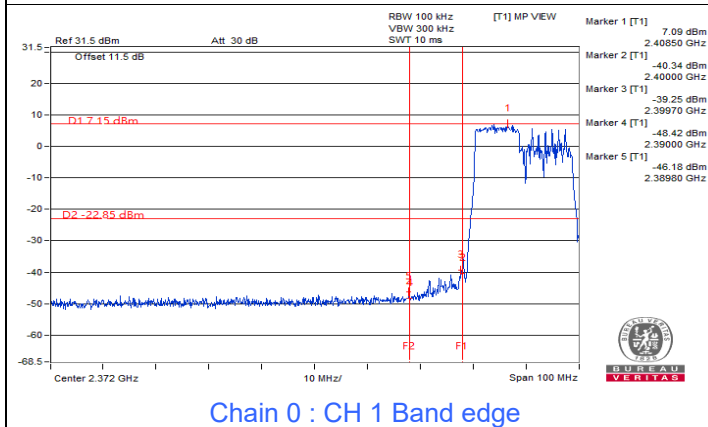
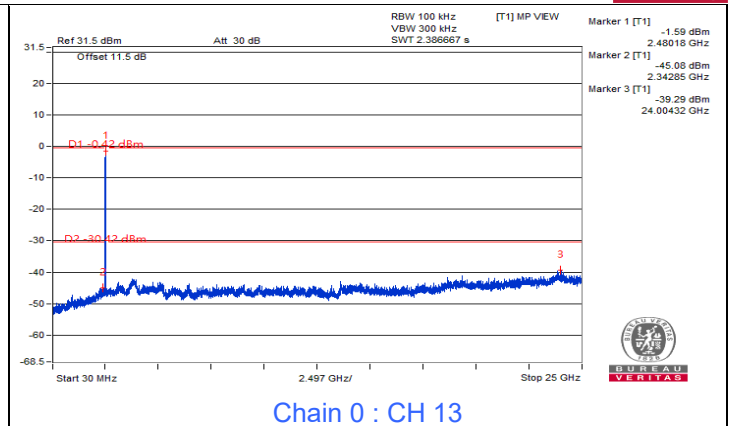
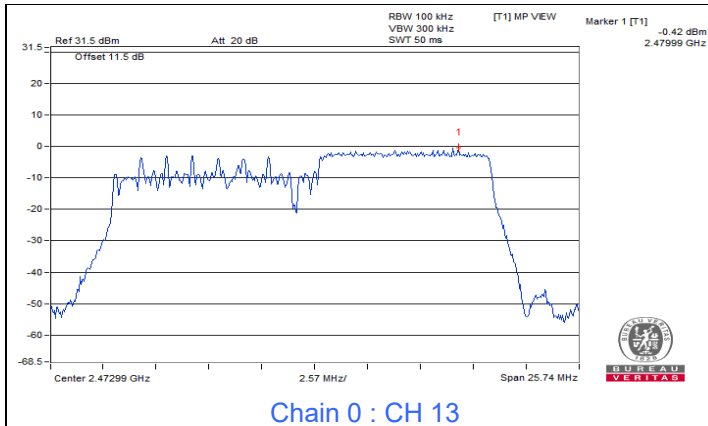


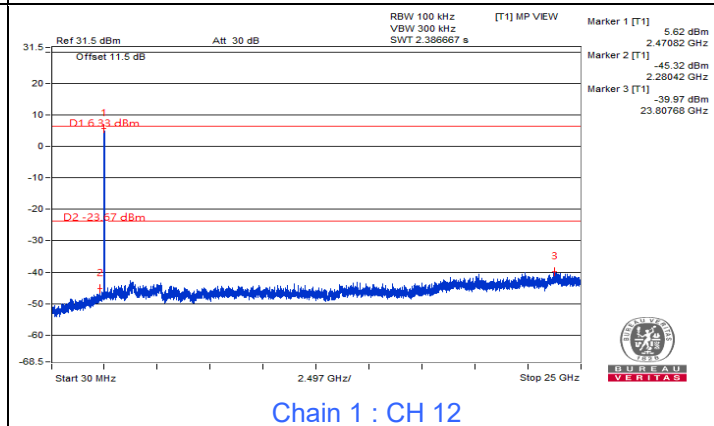
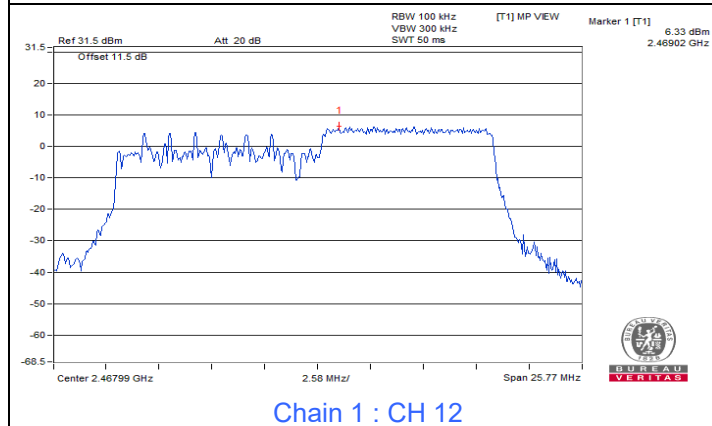
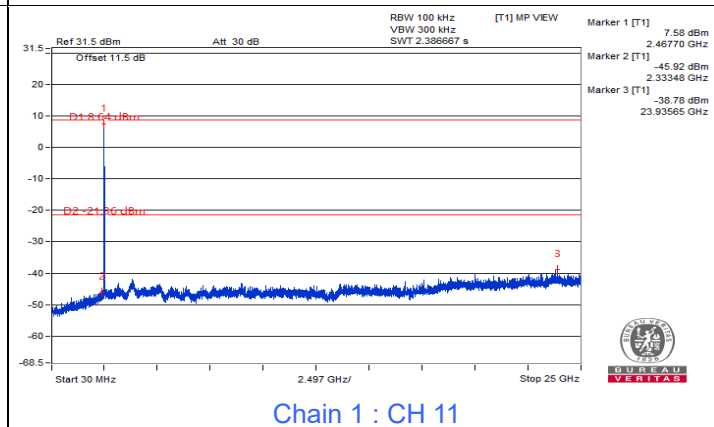
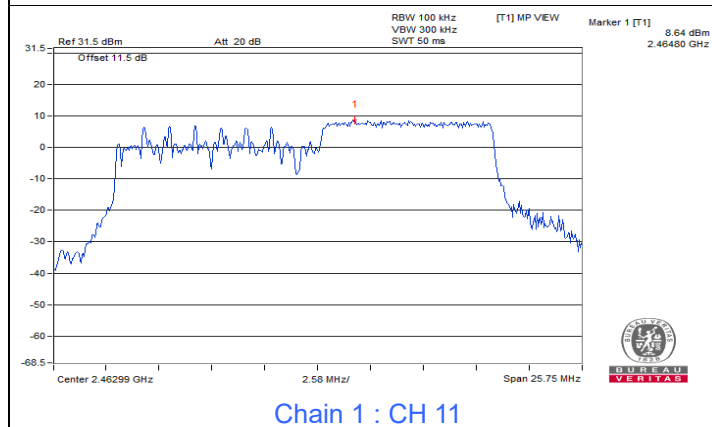
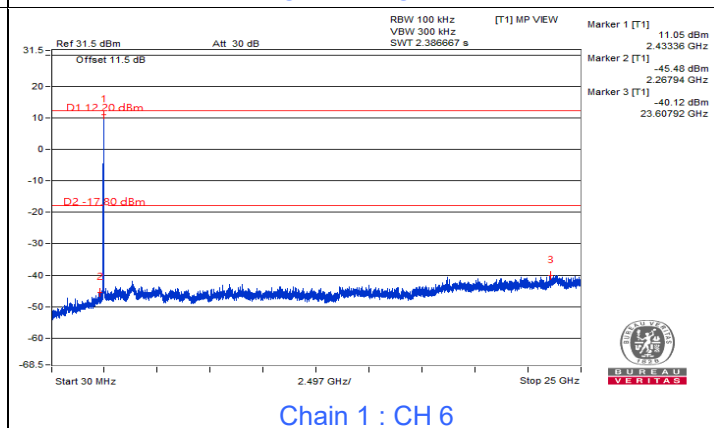
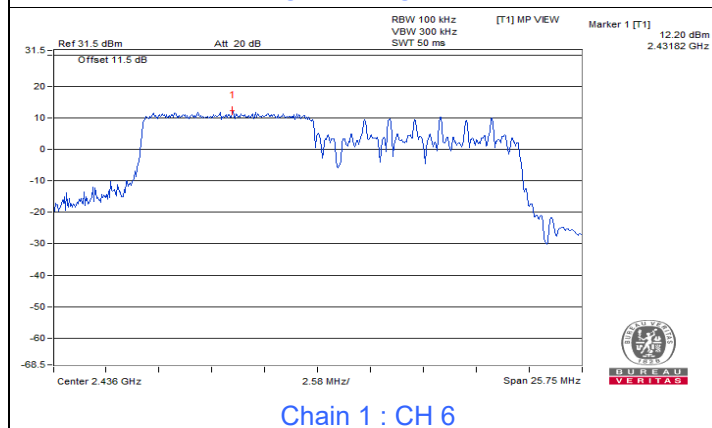
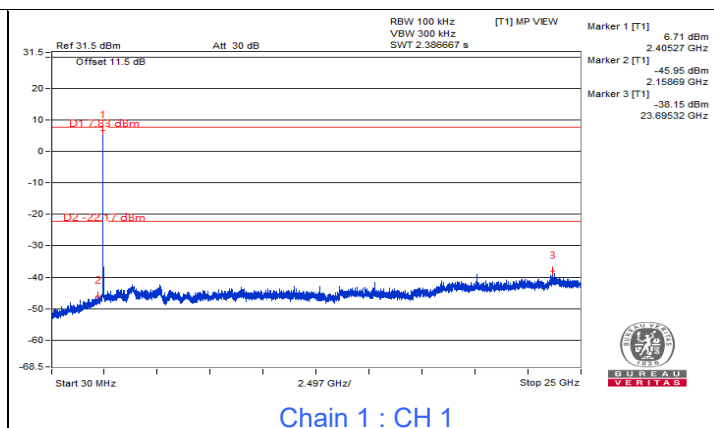
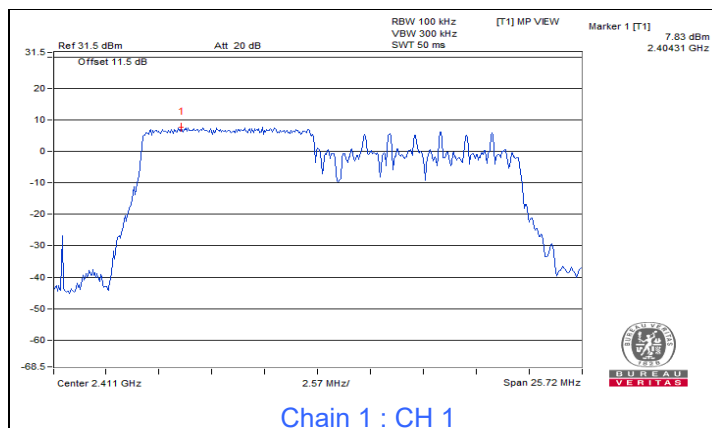


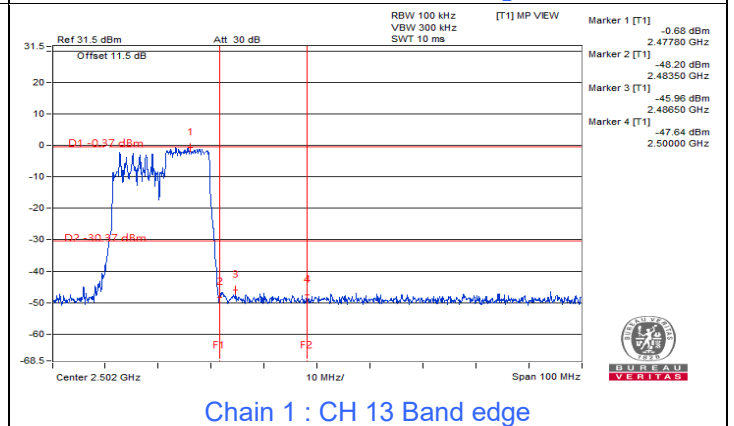
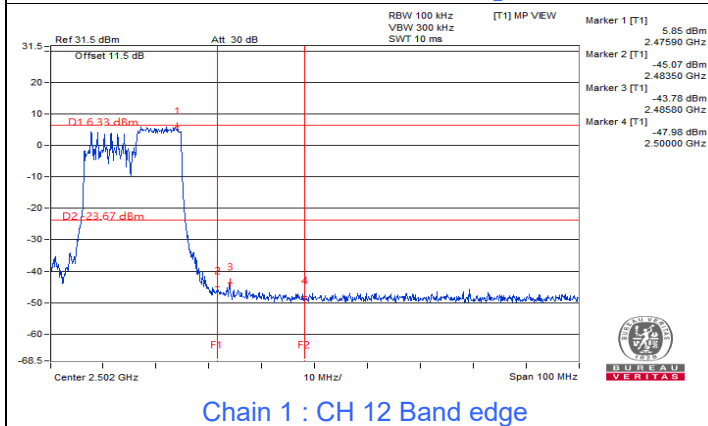
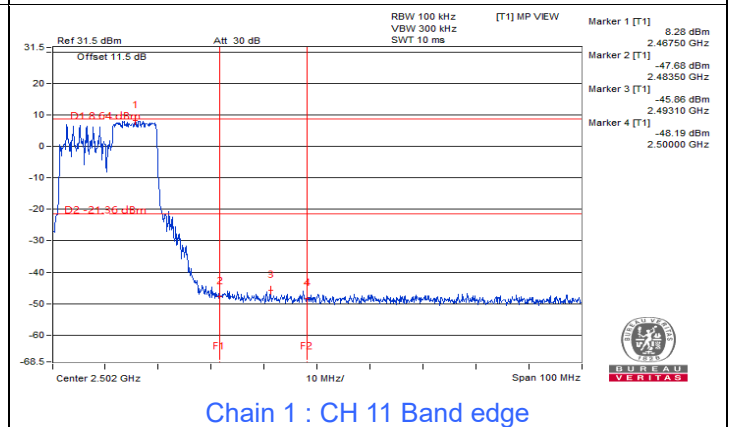
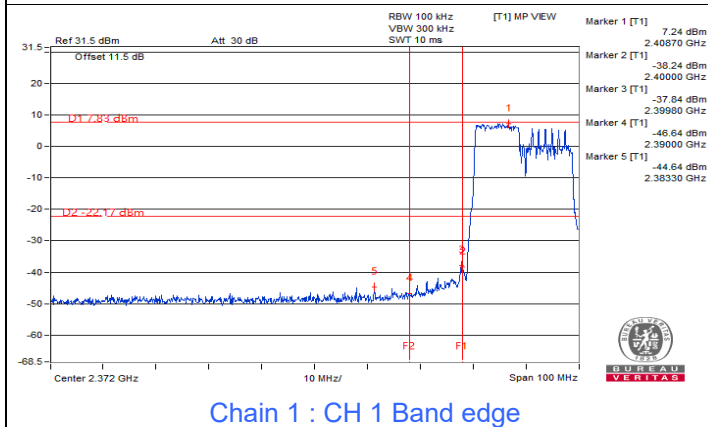
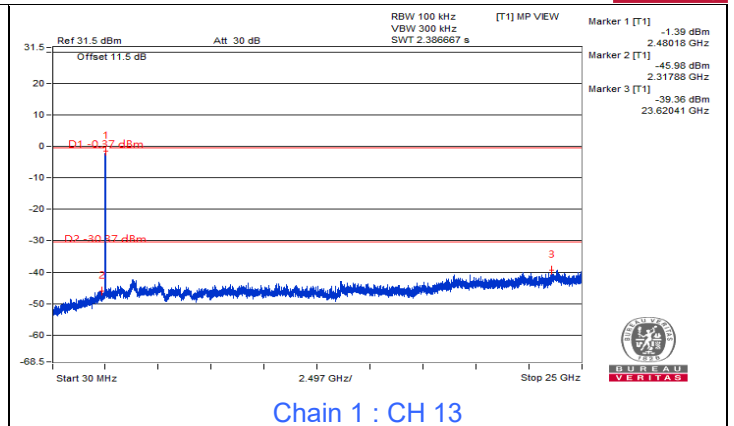
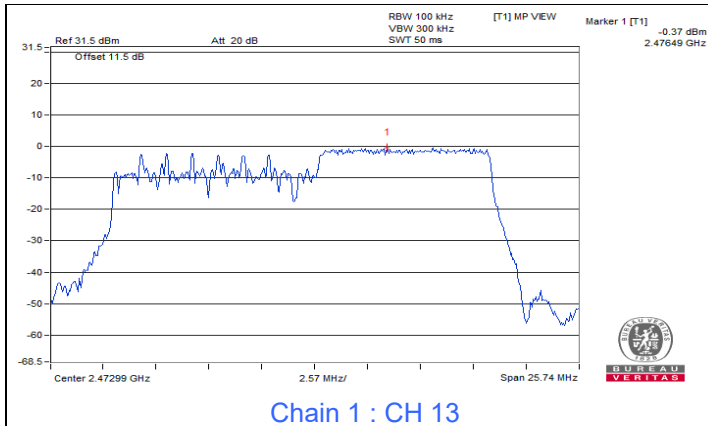


802.11be (EHT20) 106-tone RU 2S2T









802.11be (EHT20) 52+26-tone MRU 2S2T

