

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 15, Subpart C (Section 15.247)
Report No.: RFBBUI-WTW-P25050503-1
FCC ID: TX2-RTL8922DE
Product: 11be RTL8922DE Combo module
Brand: REALTEK
Model No.: RTL8922DE
Received Date: 2025/5/23
Test Date: 2025/10/20 ~ 2026/3/24
Issued Date: 2026/7/13
Applicant: Realtek Semiconductor Corp.
Address: No. 2, Innovation Road II, Hsinchu Science Park, Hsinchu 300, Taiwan
Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Hsin Chu Laboratory
Lab Address: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan
Test Location: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan
FCC Registration / 723255 / TW2022
Designation Number:

Approved by: _____



Wen Yu / Assistant Manager

, Date: _____

2026/7/13

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Prepared by : Phoenix Huang / Specialist

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Release Control Record

Issue No.	Description	Date Issued
RFBBUI-WTW-P25050503-1	Original release.	

1 Certificate

Product: 11be RTL8922DE Combo module
Brand: REALTEK
Test Model: RTL8922DE
Sample Status: Engineering sample
Applicant: Realtek Semiconductor Corp.
Test Date: 2025/10/20 ~ 2026/3/24
Standard: 47 CFR FCC Part 15, Subpart C (Section 15.247)
Measurement procedure: ANSI C63.10-2020
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 -15.14 dB at 0.18906 MHz
15.205 / 15.209 / 15.247(d)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -7.5 dB at 166.28 MHz
15.205 / 15.209 / 15.247(d)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -1.5 dB at 2390.00 MHz
15.203	Antenna Requirement	Pass	Antenna connector is IPEX, MHF4, MHF4L 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:

Parameter	Specification	Uncertainty (±)
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	5.4 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	5.0 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	11be RTL8922DE Combo module
Brand	REALTEK
Test Model	RTL8922DE
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: 467.735 mW (26.7 dBm) 2Tx: 884.605 mW (29.47 dBm)

Note:

1. The EUT has two SKUs, please following table:

SKU No.	Components
1	With Flash
2	Without Flash

2. There are Bluetooth and WLAN (2.4 GHz & 5 GHz & 6 GHz) technology used for the EUT.

3. Simultaneously transmission combination.

1Tx		
Combination	Technology	
	S0 (Chain 1)	S1 (Chain 0)
1	WLAN (5 GHz)_H	Bluetooth + WLAN (5 GHz)_L
2	WLAN (6 GHz)	Bluetooth + WLAN (5 GHz)_H
3	WLAN (5 GHz)_H	Bluetooth + WLAN (6 GHz)
4	WLAN (2.4 GHz)	WLAN (5 GHz)_Full
5	WLAN (2.4 GHz)	WLAN (6 GHz)
6	WLAN (5 GHz)_Full	Bluetooth
7	WLAN (6 GHz)	Bluetooth
2Tx		
1	WLAN (5 GHz)_H + Bluetooth	WLAN (5 GHz)_H + Bluetooth
2	WLAN (5 GHz)_H	WLAN (5 GHz)_H + Bluetooth
3	WLAN (6 GHz) + Bluetooth	WLAN (6 GHz) + Bluetooth

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

4. The EUT support OFDMA and Partial RU mode, therefore partial RU combination were investigated and the worst case scenario was identified.
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	Chain0/1	REALTEK	RTK-ANT-0022	3.4	2.4~2.4835	PIFA	IPEX, MHF4	300
				5	5.15~5.895			
				5	5.925~7.125			
2	Chain0/1	HongBo	260-25096	3.11	2.4~2.4835	Monopole	MHF4L	300
				4.91	5.15~5.895			
				4.73	5.925~7.125			
3	Chain0/1	ARISTOTLE	RFA-27-C38H1-MHF4300	3	2.4~2.4835	Dipole	IPEX, MHF4	300
				5	5.15~5.895			
				5	5.925~7.125			

* 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	
802.11b	2TX	2RX
802.11g	2TX	2RX
802.11n (HT20)	2TX	2RX
802.11n (HT40)	2TX	2RX
VHT20	2TX	2RX
VHT40	2TX	2RX
802.11ax (HE20)	2TX	2RX
802.11ax (HE40)	2TX	2RX
802.11be (EHT20)	2TX	2RX
802.11be (EHT40)	2TX	2RX
802.11ax (RU26/52/106/242/484)	2TX	2RX
802.11be (RU26/52/106/242/484 MRU52+26/106+26)	2TX	2RX

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. The EUT includes two HW SKU: SKU No.1(with flash), SKU No.2(w/o flash). Pre-scan in these SKUs and find the worst case as a test condition. 2. The PIFA/ monopole/ dipole antenna can be used in the following ways: X / Y / Z axis. Pre-scan in these ways and find the worst case as a representative test condition. 3. For 1Tx diversity configuration. Pre-scan in these chains and find the worst case as a representative test condition. 4. For Partial RU and Multi-RU modes across all supported bandwidths, a pre-scan shall be conducted to identify the worst-case condition and utilize it as the representative test mode 5. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates.
Worst Case:	1. The EUT worst case of SKU: SKU No.1 2. The antenna sets of the worst case was found when positioned on (X / Y / Z axis) ➤ PIFA antenna: Y axis ➤ Monopole antenna :X axis ➤ Dipole antenna: Y axis 3. For 1Tx diversity configuration the worst chain is: Chain 1

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

Test Item	EUT Configure Mode	Mode	Transmitter Configuration	Signal Mode	Tested Channel	Modulation	Data Rate Parameter	RU/MRU Index
RF Output Power	-	802.11b	1Tx/ 2Tx	SISO/ CDD	1, 2, 6, 10, 11, 12, 13	BPSK	1Mb/s	NA
		802.11g		SISO/ CDD	1, 2, 6, 10, 11, 12, 13	BPSK	6Mb/s	NA
		802.11be (EHT20)	1Tx/ 2Tx	SISO/ CDD	1, 2, 6, 10, 11, 12, 13	BPSK	MCS0	NA
		802.11be (EHT40)		SISO/ CDD	3, 6, 9, 10, 11	BPSK	MCS0	NA
		802.11be (EHT20) 26-tone RU	1Tx/ 2Tx	SISO/ CDD	1, 2, 6, 10, 11, 12, 13	BPSK	MCS0	0, 0, 0, 8, 8, 8, 8
		802.11be (EHT20) 52-tone RU		SISO/ CDD	1, 2, 6, 10, 11, 12, 13	BPSK	MCS0	37, 37, 37, 40, 40, 40, 40
		802.11be (EHT20) 106-tone RU	1Tx/ 2Tx	SISO/ CDD	1, 2, 6, 10, 11, 12, 13	BPSK	MCS0	53, 53, 53, 54, 54, 54, 54
		802.11be (EHT20) 52+26-tone MRU		SISO/ CDD	1, 2, 6, 10, 11, 12, 13	BPSK	MCS0	1, 1, 1, 3, 3, 3, 3
		802.11be (EHT20) 106+26-tone MRU	1Tx/ 2Tx	SISO/ CDD	1, 2, 6, 10, 11, 12, 13	BPSK	MCS0	1, 1, 1, 2, 2, 2, 2

Test Item	EUT Configure Mode	Mode	Transmitter Configuration	Signal Mode	Tested Channel	Modulation	Data Rate Parameter	RU/MRU Index
Power Spectral Density	-	802.11b	1Tx/ 2Tx	SISO/ CDD	1, 2, 6, 10, 11, 12, 13	BPSK	1Mb/s	NA
		802.11g		SISO/ CDD	1, 2, 6, 10, 11, 12, 13	BPSK	6Mb/s	NA
		802.11be (EHT20)	1Tx/ 2Tx	SISO/ CDD	1, 2, 6, 10, 11, 12, 13	BPSK	MCS0	NA
		802.11be (EHT40)		SISO/ CDD	3, 6, 9, 10, 11	BPSK	MCS0	NA
		802.11be (EHT20) 26-tone RU	1Tx/ 2Tx	SISO/ CDD	1, 2, 6, 10, 11, 12, 13	BPSK	MCS0	0, 0, 0, 8, 8, 8, 8
		802.11be (EHT20) 52-tone RU		SISO/ CDD	1, 2, 6, 10, 11, 12, 13	BPSK	MCS0	37, 37, 37, 40, 40, 40, 40
		802.11be (EHT20) 106-tone RU	1Tx/ 2Tx	SISO/ CDD	1, 2, 6, 10, 11, 12, 13	BPSK	MCS0	53, 53, 53, 54, 54, 54, 54
		802.11be (EHT20) 52+26-tone MRU		SISO/ CDD	1, 2, 6, 10, 11, 12, 13	BPSK	MCS0	1, 1, 1, 3, 3, 3, 3
		802.11be (EHT20) 106+26-tone MRU	1Tx/ 2Tx	SISO/ CDD	1, 2, 6, 10, 11, 12, 13	BPSK	MCS0	1, 1, 1, 2, 2, 2, 2
6 dB Bandwidth / Conducted Out of Band Emissions	-	802.11b	1Tx/ 2Tx	SISO/ CDD	1, 2, 6, 10, 11, 12, 13	BPSK	1Mb/s	NA
		802.11g		SISO/ CDD	1, 2, 6, 10, 11, 12, 13	BPSK	6Mb/s	NA
		802.11be (EHT20)	1Tx/ 2Tx	SISO/ CDD	1, 2, 6, 10, 11, 12, 13	BPSK	MCS0	NA
		802.11be (EHT40)		SISO/ CDD	3, 6, 9, 10, 11	BPSK	MCS0	NA
		802.11be (EHT20) 26-tone RU	1Tx/ 2Tx	SISO/ CDD	1, 2, 6, 10, 11, 12, 13	BPSK	MCS0	0, 0, 0, 8, 8, 8, 8
		802.11be (EHT20) 52-tone RU		SISO/ CDD	1, 2, 6, 10, 11, 12, 13	BPSK	MCS0	37, 37, 37, 40, 40, 40, 40
		802.11be (EHT20) 106-tone RU	1Tx/ 2Tx	SISO/ CDD	1, 2, 6, 10, 11, 12, 13	BPSK	MCS0	53, 53, 53, 54, 54, 54, 54
		802.11be (EHT20) 52+26-tone MRU		SISO/ CDD	1, 2, 6, 10, 11, 12, 13	BPSK	MCS0	1, 1, 1, 3, 3, 3, 3
		802.11be (EHT20) 106+26-tone MRU	1Tx/ 2Tx	SISO/ CDD	1, 2, 6, 10, 11, 12, 13	BPSK	MCS0	1, 1, 1, 2, 2, 2, 2
AC Power Conducted Emissions	A	802.11g	2Tx	CDD	6	BPSK	6Mb/s	NA
Unwanted Emissions below 1 GHz	A, B, C	802.11g	1Tx/ 2Tx	SISO/ CDD	6	BPSK	6Mb/s	NA

Test Item	EUT Configure Mode	Mode	Transmitter Configuration	Signal Mode	Tested Channel	Modulation	Data Rate Parameter	RU/MRU Index
Unwanted Emissions above 1 GHz	A, B, C	802.11b	1Tx/ 2Tx	SISO/ CDD	1, 2, 6, 10, 11, 12, 13	BPSK	1Mb/s	NA
		802.11g		SISO/ CDD	1, 2, 6, 10, 11, 12, 13	BPSK	6Mb/s	NA
		802.11be (EHT20)	1Tx/ 2Tx	SISO/ CDD	1, 2, 6, 10, 11, 12, 13	BPSK	MCS0	NA
		802.11be (EHT40)		SISO/ CDD	3, 6, 9, 10, 11	BPSK	MCS0	NA
		802.11be (EHT20) 26-tone RU	1Tx/ 2Tx	SISO/ CDD	1, 2, 6, 10, 11, 12, 13	BPSK	MCS0	0, 0, 0, 8, 8, 8, 8
		802.11be (EHT20) 52-tone RU		SISO/ CDD	1, 2, 6, 10, 11, 12, 13	BPSK	MCS0	37, 37, 37, 40, 40, 40, 40
		802.11be (EHT20) 106-tone RU	1Tx/ 2Tx	SISO/ CDD	1, 2, 6, 10, 11, 12, 13	BPSK	MCS0	53, 53, 53, 54, 54, 54, 54
		802.11be (EHT20) 52+26-tone MRU		SISO/ CDD	1, 2, 6, 10, 11, 12, 13	BPSK	MCS0	1, 1, 1, 3, 3, 3, 3
		802.11be (EHT20) 106+26-tone MRU	1Tx/ 2Tx	SISO/ CDD	1, 2, 6, 10, 11, 12, 13	BPSK	MCS0	1, 1, 1, 2, 2, 2, 2
EUT Configure Mode:	A	PIFA antenna (Model: RTK-ANT-0022)						
	B	Monopole antenna (Model: 260-25096)						
	C	Dipole antenna (Model: RFA-27-C38H1-MHF4300)						

3.5 Duty Cycle of Test Signal

802.11b: Duty cycle = 0.992 ms / 1.005 ms x 100% = 98.7%

802.11g: Duty cycle = 0.961 ms / 0.974 ms x 100% = 98.7%

802.11be (EHT20): Duty cycle = 0.957 ms / 0.97 ms x 100% = 98.7%

802.11be (EHT40): Duty cycle = 0.952 ms / 0.965 ms x 100% = 98.7%

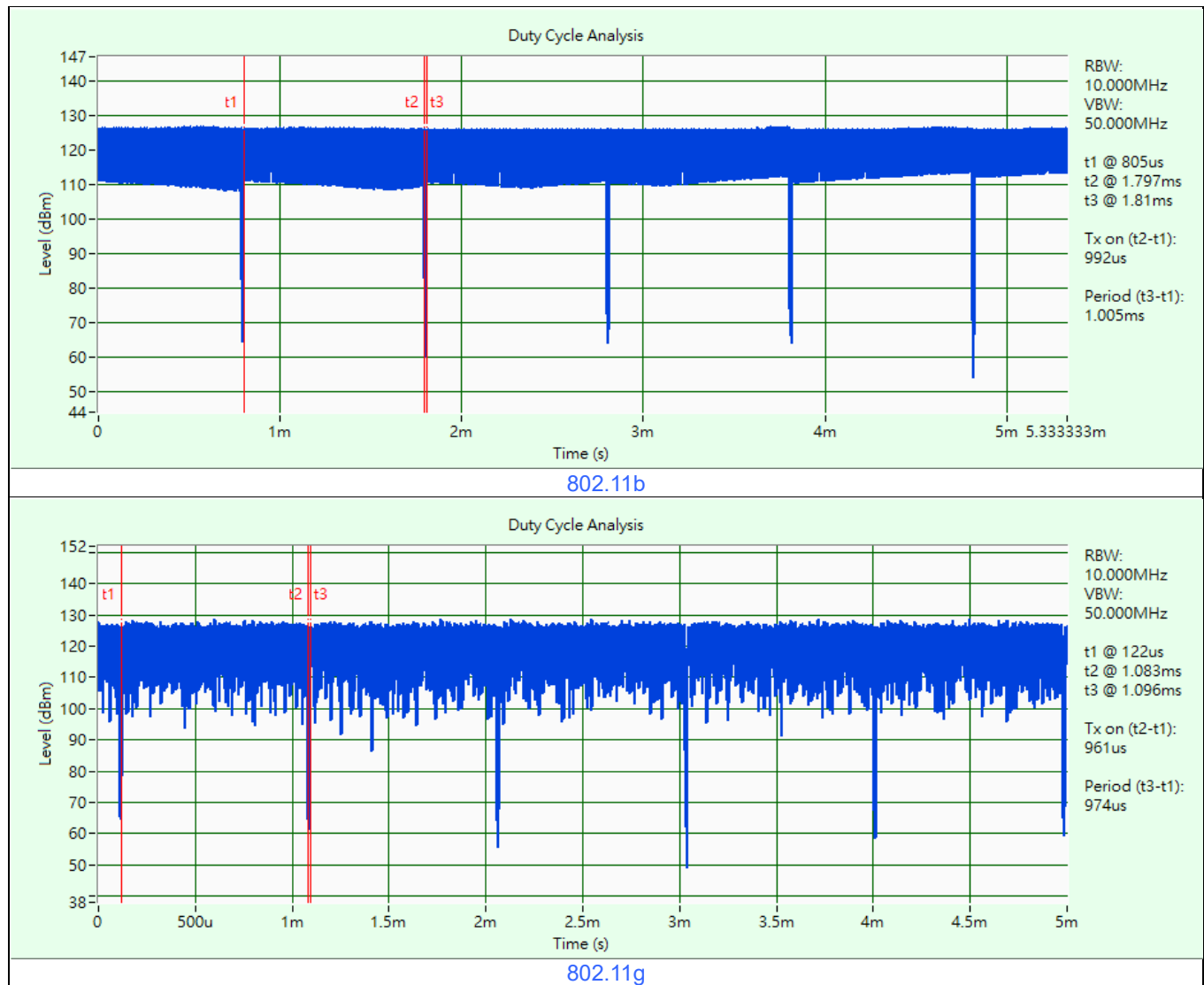
802.11be (EHT20) 26-tone RU: Duty cycle = 0.95 ms / 0.963 ms x 100% = 98.7%

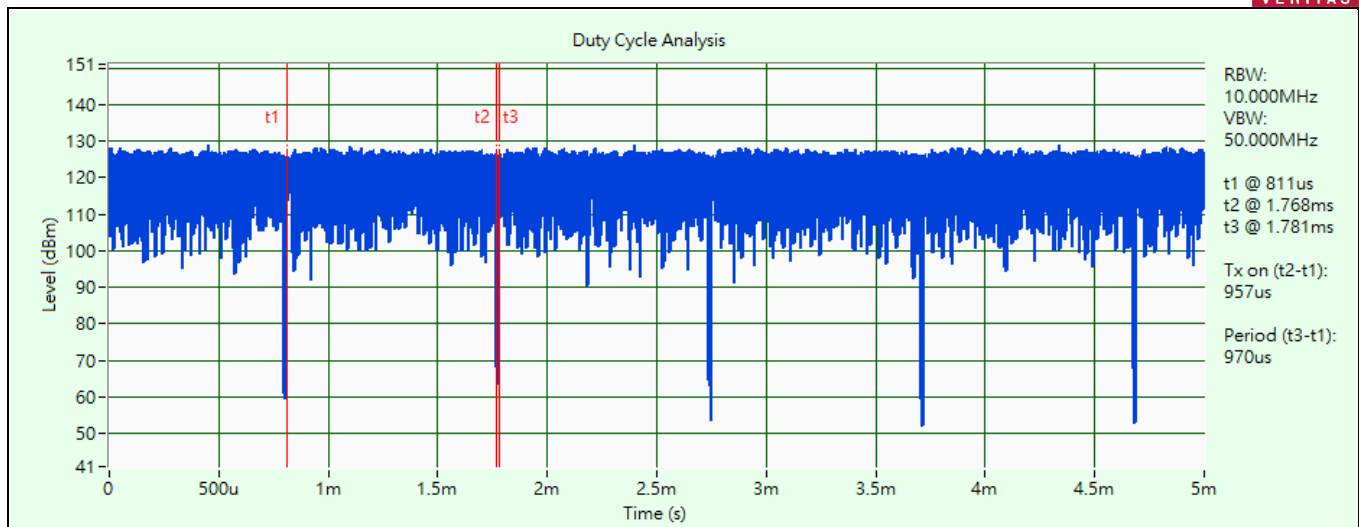
802.11be (EHT20) 52-tone RU: Duty cycle = 0.936 ms / 0.949 ms x 100% = 98.6%

802.11be (EHT20) 106-tone RU: Duty cycle = 0.957 ms / 0.97 ms x 100% = 98.7%

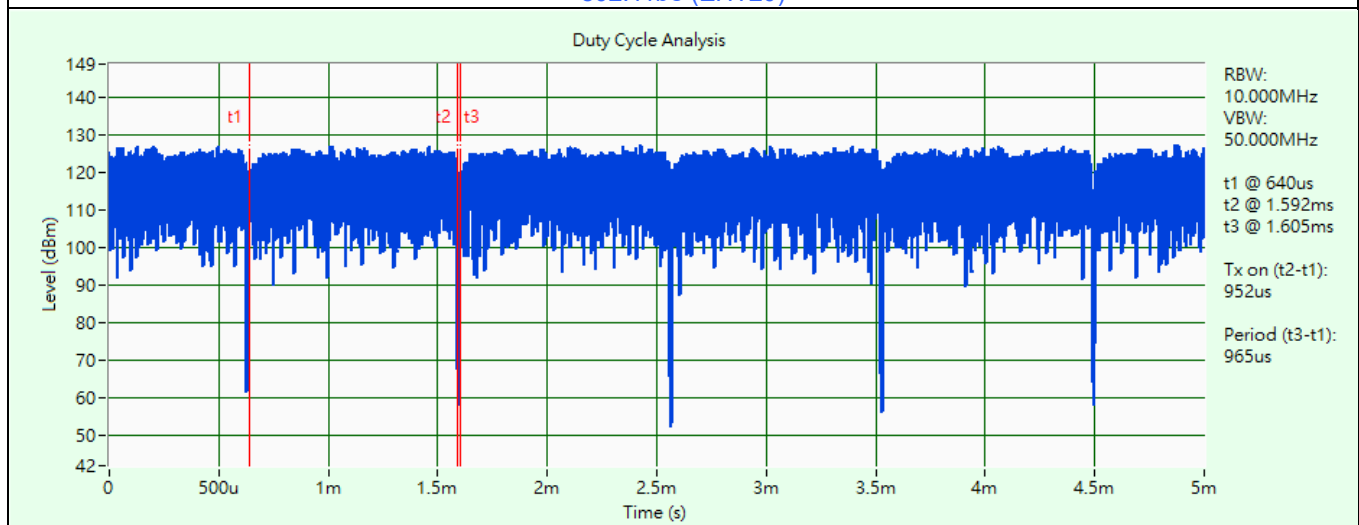
802.11be (EHT20) 52+26-tone MRU: Duty cycle = 0.972 ms / 0.986 ms x 100% = 98.6%

802.11be (EHT20) 106+26-tone MRU: Duty cycle = 0.992 ms / 1.006 ms x 100% = 98.6%

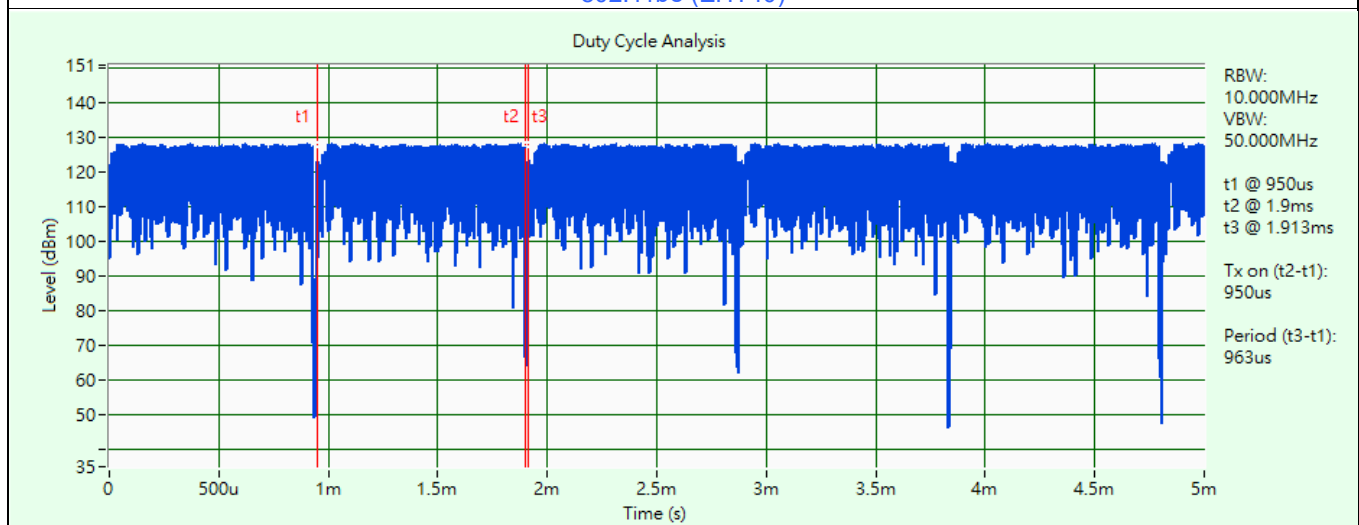




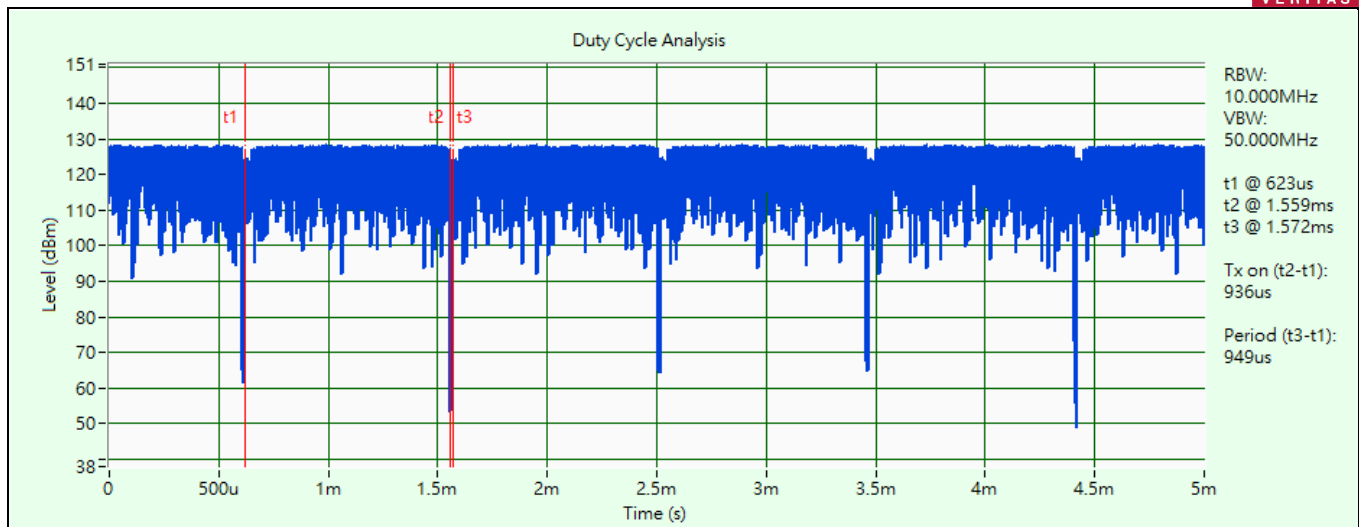
802.11be (EHT20)



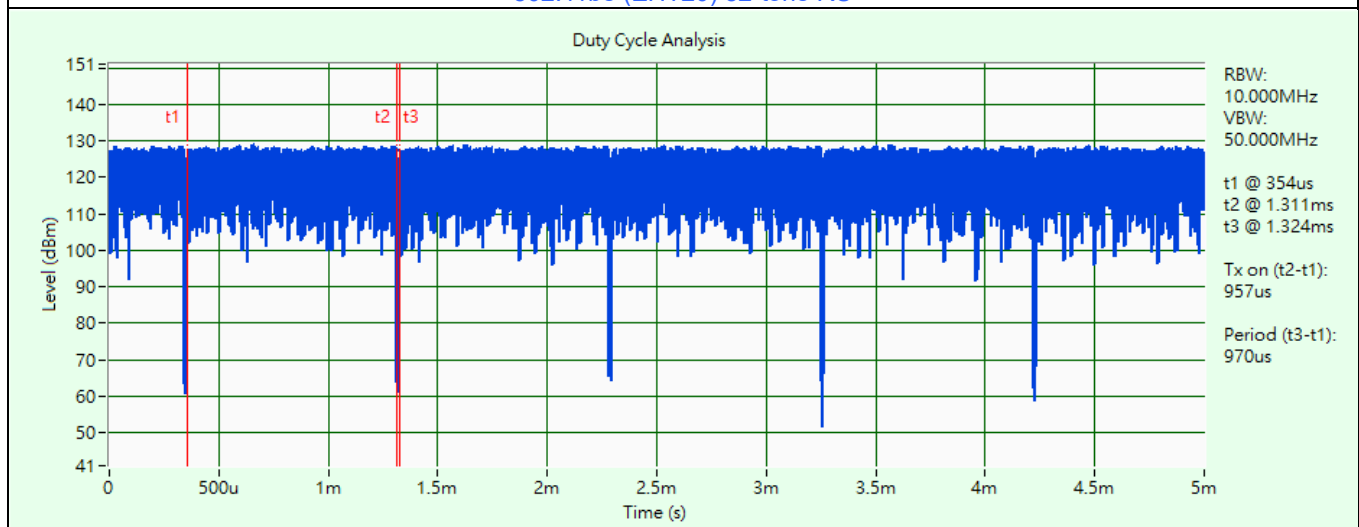
802.11be (EHT40)



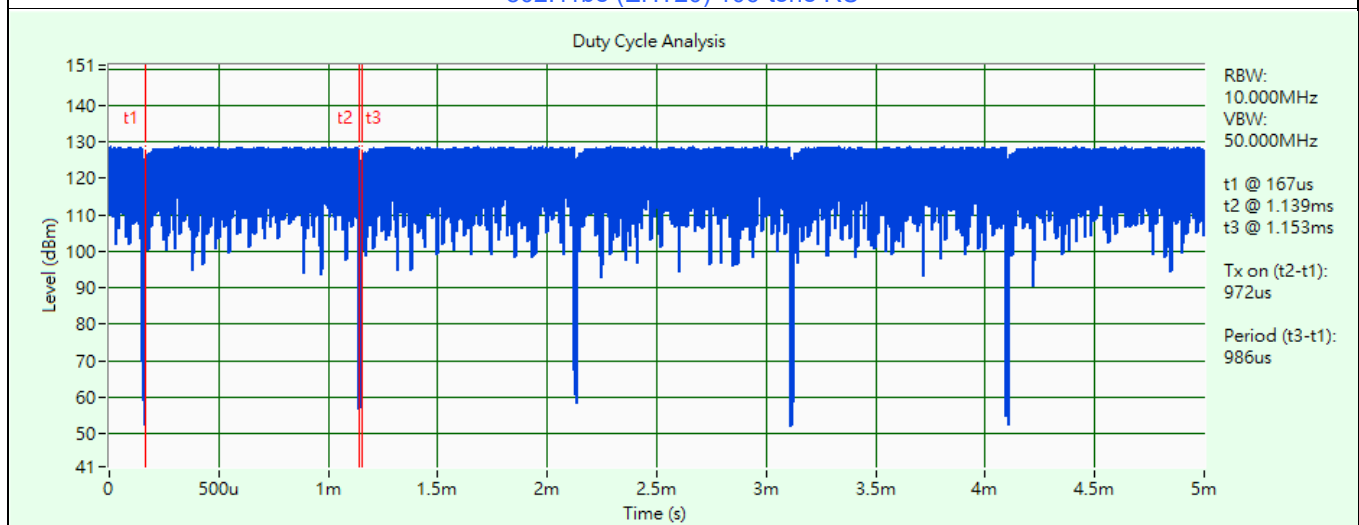
802.11be (EHT20) 26-tone RU



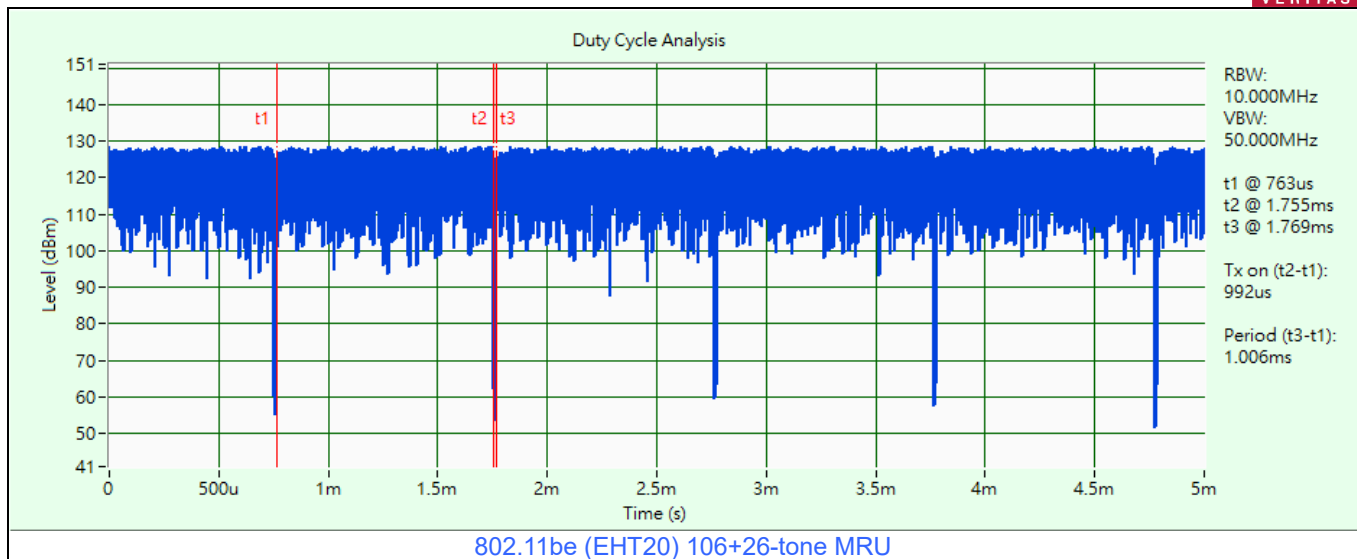
802.11be (EHT20) 52-tone RU



802.11be (EHT20) 106-tone RU



802.11be (EHT20) 52+26-tone MRU



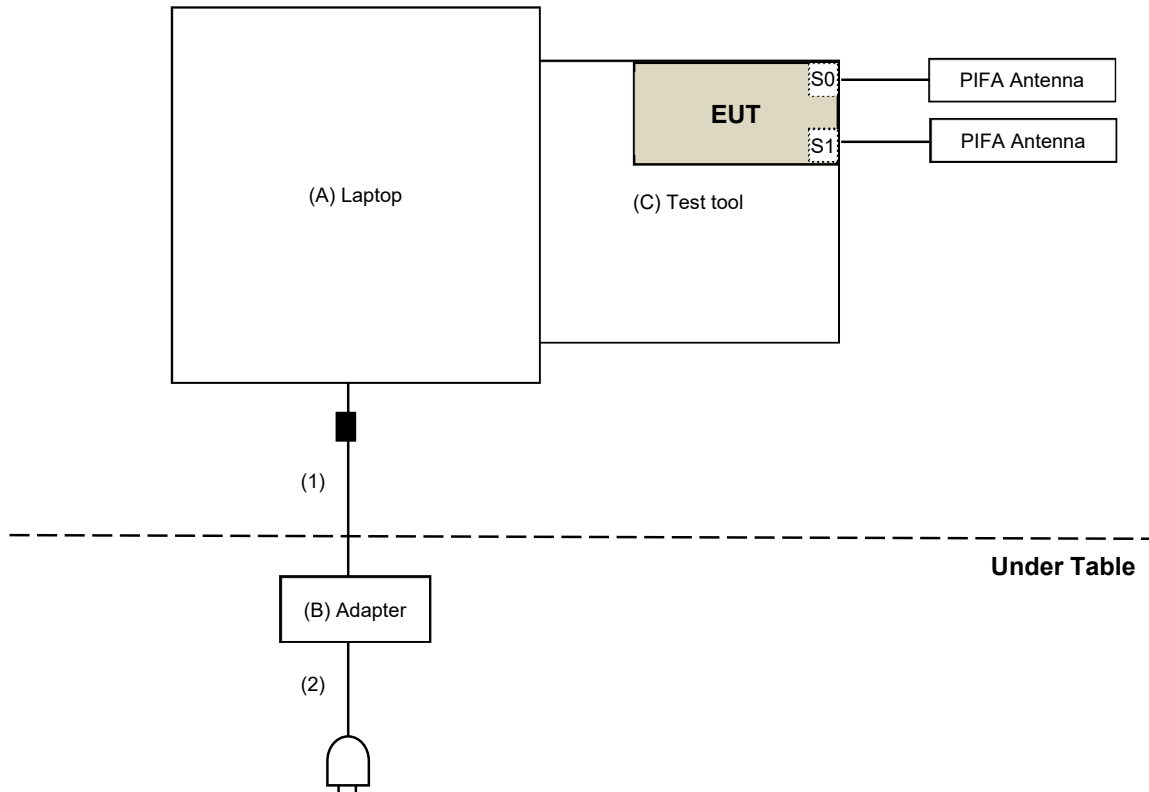
3.6 Test Program Used and Operation Descriptions

Controlling software (RTL8922D_PCIE_MP_Package_ALPHA_v1.0.19(205956)) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

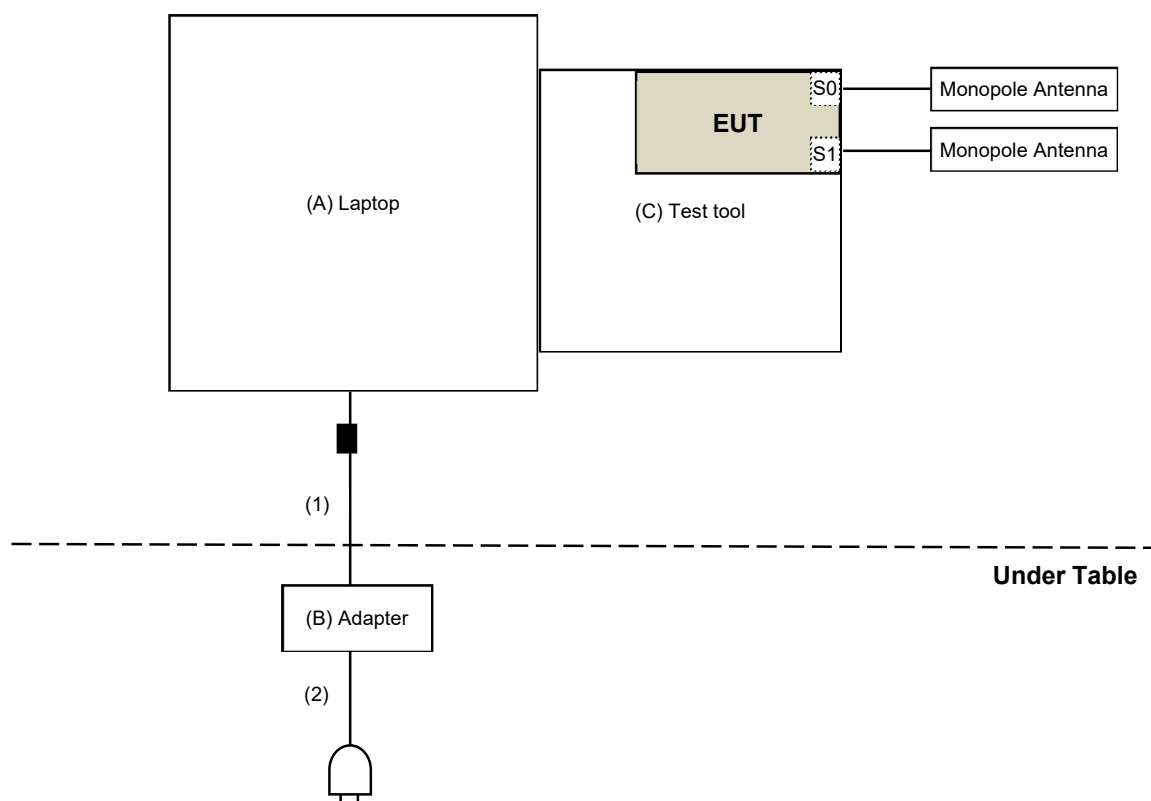
3.7 Connection Diagram of EUT and Peripheral Devices

For Unwanted Emissions test:

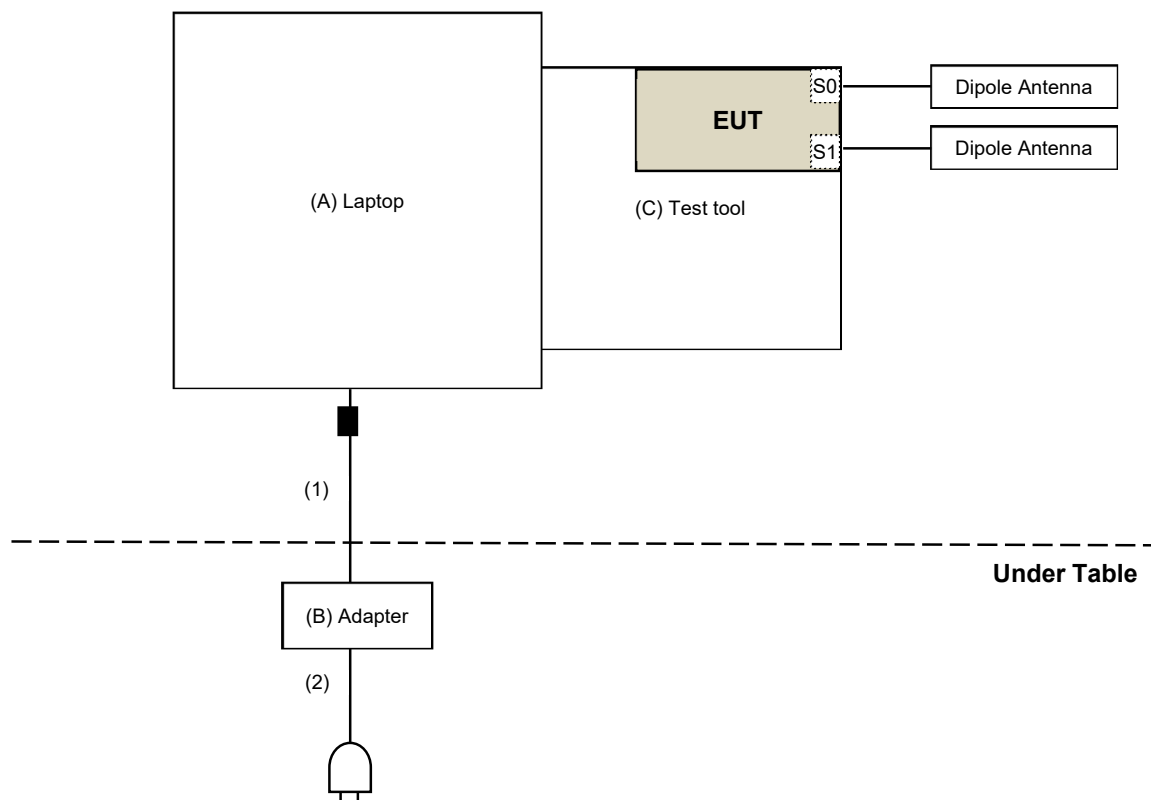
Mode A:



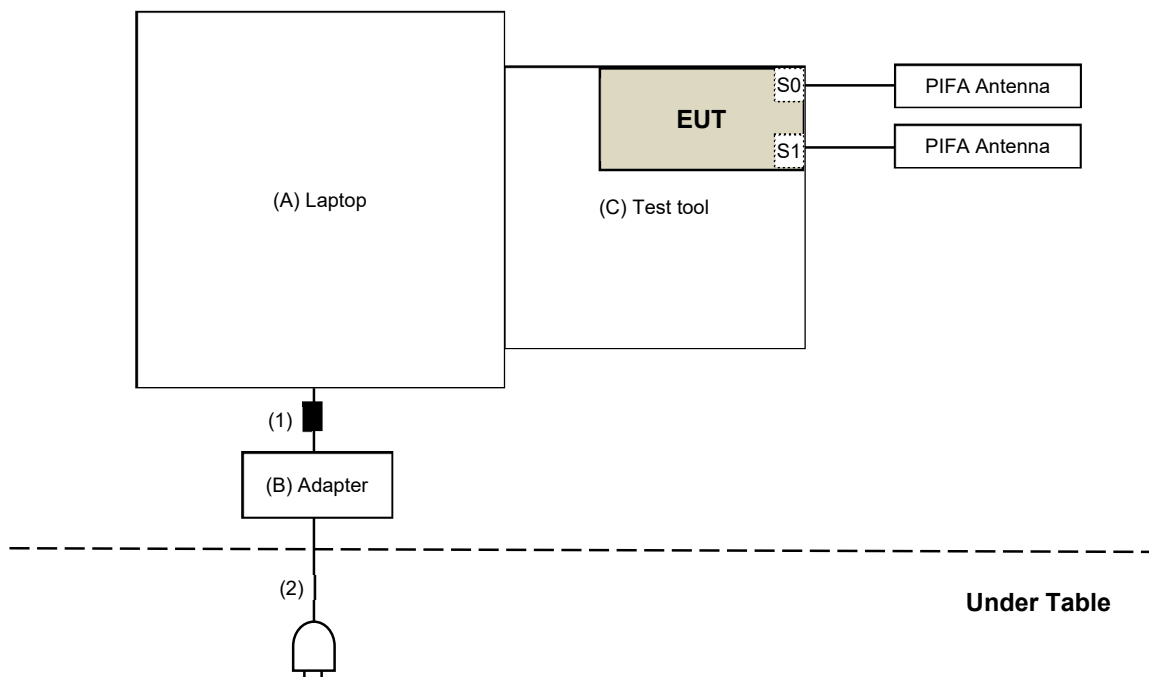
Mode B



Mode C



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	DELL	E6230	9CGDLX1	N/A	Provided by Lab
B	Adaptor	DELL	AA65NM121	N/A	N/A	Provided by Lab
C	Test tool	REALTEK	N/A	N/A	N/A	Supplied by applicant

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	DC Cable	1	1.5	No	1	Provided by Lab
2	AC Cable	1	0.8	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
Fixed Attenuator Woken	00800A1K01A-20	00800A1K01A-20-02	2025/5/23	2026/5/22
Pulse Power Sensor Anritsu	MA2411B	1726434	2025/6/3	2026/6/2
RF Power Meter Anritsu	ML2495A	1529002	2025/6/3	2026/6/2

Notes:

1. The test was performed in HC - Oven room 2(Hsinchu).
2. Tested Date: 2026/1/10 ~ 2026/3/10

4.2 Power Spectral Density

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2025/5/23	2026/5/22
PXA Signal Analyzer Keysight	N9030A	MY55330160	2025/1/16 2026/1/20	2026/1/15 2027/1/19
Software	ADT_RF Test Software V8	N/A	N/A	N/A

Notes:

1. The test was performed in HC - Oven room 2(Hsinchu).
2. Tested Date: 2026/1/10 ~ 2026/3/10

4.3 6 dB Bandwidth

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2025/5/23	2026/5/22
PXA Signal Analyzer Keysight	N9030A	MY55330160	2025/1/16 2026/1/20	2026/1/15 2027/1/19
Software	ADT_RF Test Software v8.5.6.4	N/A	N/A	N/A

Notes:

1. The test was performed in HC - Oven room 2(Hsinchu).
2. Tested Date: 2026/1/10 ~ 2026/3/10

4.4 Conducted Out of Band Emissions

Refer to section 4.3 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	2025/10/29	2026/10/28
EMI Test Receiver R&S	ESCS 30	100375	2025/5/21	2026/5/20
Fixed Attenuator STI	STI02-2200-10	005	2026/2/9	2027/2/8
LISN R&S	ESH3-Z5	835239/001	2025/3/27	2026/3/26
		848773/004	2025/10/3	2026/10/2
RF Coaxial Cable JYEBAO	5D-FB	COCCAB-001	2026/2/9	2027/2/8
Software BVADT	BVADT_Cond_V7.3.7.4	N/A	N/A	N/A

Notes:

1. The test was performed in HC - Conduction 1(Hsinchu).
2. Tested Date: 2026/3/10

4.6 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn Table Max-Full	MF-7802	MF780208406	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-361	2025/9/16	2026/9/15
Fix tool for Boresight antenna tower BV	FBA-01	FBA_SIP01	N/A	N/A
Fixed Attenuator Woken	00800N1G01A-05	00800N1G01A-05-003	2026/1/31	2027/1/30
Loop Antenna TESEQ	HLA 6121	63620	2025/10/20	2026/10/19
MXE EMI Receiver Agilent	N9038A	MY50010156	2025/6/5	2026/6/4
Preamplifier EMCI	EMC330N	980852	2026/1/31	2027/1/30
RF Coaxial Cable PEWC	8D	001	2026/1/31	2027/1/30
		966-3-2	2026/1/31	2027/1/30
		966-3-3	2026/1/31	2027/1/30
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in HC - 966 Chamber No. 3(Hsinchu).
2. Tested Date: 2026/3/10 ~ 2026/3/24

4.7 Unwanted Emissions above 1 GHz

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	2025/11/9 2026/11/8
	BBHA 9170	9170-739	2024/11/10 2025/11/9	2025/11/9 2026/11/8
MXE EMI Receiver Agilent	N9038A	MY50010156	2025/6/5	2026/6/4
Preamplifier EMCI	EMC12630SE	980384	2025/1/14 2026/1/10	2026/1/13 2027/1/9
	EMC184045SE	980387	2025/8/7	2026/8/6
PKA Signal Analyzer Keysight	N9030B	MY57141948	2025/5/20	2026/5/19
RF Coaxial Cable EMCI	EMC102-KM-KM-1200	160924	2025/1/24 2026/1/15	2026/1/23 2027/1/14
	EMC102-KM-KM-4000	200214	2025/1/24 2026/1/15	2026/1/23 2027/1/14
	EMC104-SM-SM-1500	180504	2025/1/18 2026/1/17	2026/1/17 2027/1/16
	EMC104-SM-SM-2000	180601	2025/1/18 2026/1/17	2026/1/17 2027/1/16
	EMC104-SM-SM-6000	210201	2025/1/18 2026/1/17	2026/1/17 2027/1/16
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in HC - 966 Chamber No. 3(Hsinchu).
2. Tested Date: 2025/10/20 ~ 2026/3/9

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 20 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 20 dB below the highest level of the desired power:

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	$2400/F(\text{kHz})$	300
0.490 ~ 1.705	$24000/F(\text{kHz})$	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 20 dB below the highest level of the desired power:

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

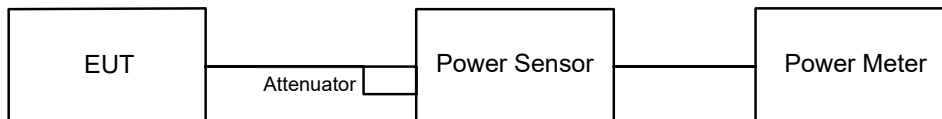
Notes:

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

Peak Power:

A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.

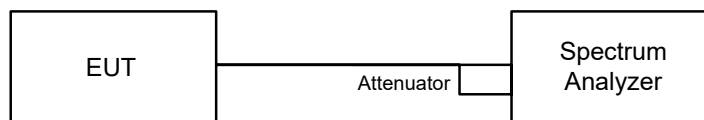
The power meter video bandwidth is greater than or equal to the DTS bandwidth and use a fast responding diode detector.

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

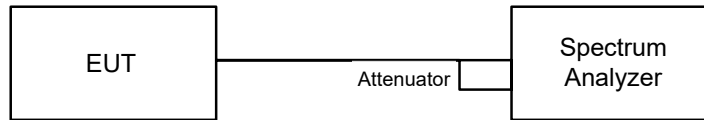


6.2.2 Test Procedure

- Set analyzer center frequency to DTS channel center frequency.
- Set the span > 1.5 times the DTS bandwidth.
- Set the RBW to: 3 kHz.
- Set the VBW $\geq 3 \times$ RBW.
- Detector = peak.
- Sweep time = No faster than coupled (auto) time.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level within the RBW.

6.3 6 dB Bandwidth

6.3.1 Test Setup

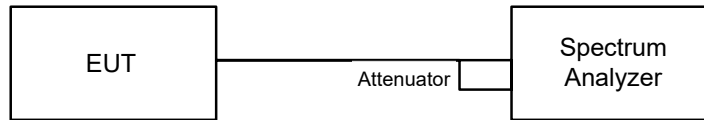


6.3.2 Test Procedure

- a. Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
- b. Set the VBW $\geq [3 \times \text{RBW}]$.
- c. Detector = peak.
- d. Trace mode = max-hold.
- e. Sweep = No faster than coupled (auto) time.
- f. Allow the trace to stabilize.
- g. Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-6 dB down amplitude”. If a marker is below this “-6 dB down amplitude” value, then it shall be as close as possible to this value.

6.4 Conducted Out of Band Emissions

6.4.1 Test Setup



6.4.2 Test Procedure

MEASUREMENT PROCEDURE REF

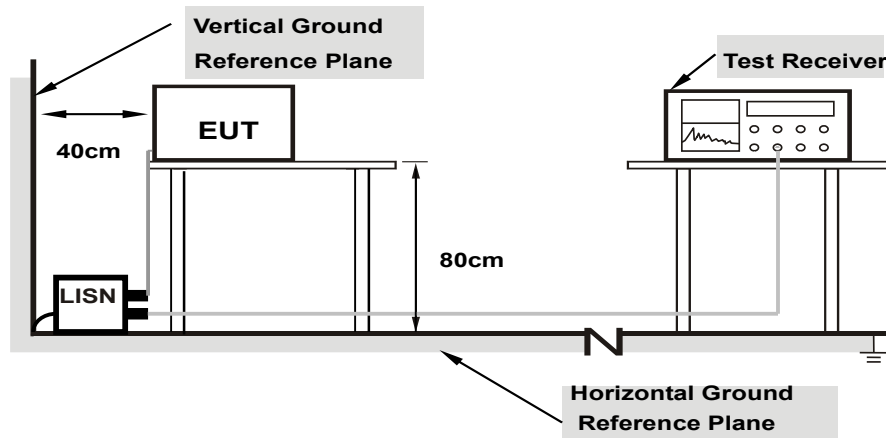
- Set instrument center frequency to DTS channel center frequency.
- Set the span to ≥ 1.5 times the DTS bandwidth.
- Set the RBW = 100 kHz.
- Set the VBW ≥ 300 kHz.
- Detector = peak.
- Sweep time = No faster than coupled (auto) time.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum PSD level.

MEASUREMENT PROCEDURE OOB

- Set the center frequency and span to encompass frequency range to be measured. Note that the frequency range might need to be divided into multiple frequency ranges to retain frequency resolution.
- Set RBW = 100 kHz.
- Set VBW ≥ 300 kHz.
- Detector = peak.
- Sweep = No faster than coupled (auto) time.
- 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

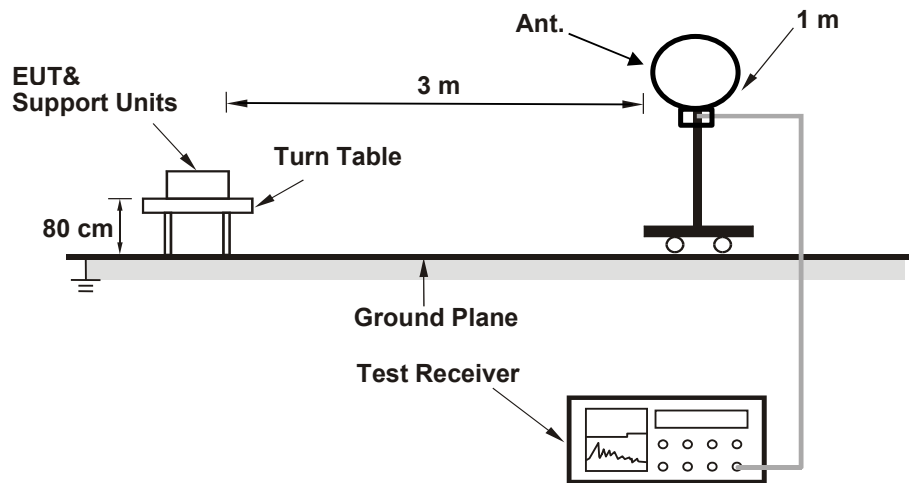
- Exploratory ac power-line conducted emission measurements: The EUT shall be operated on the mid channel and in the mode with highest output power unless the fundamental operates in the AC power-line emission test range then the EUT shall be operated in the range of typical modes of operation.
- The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

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

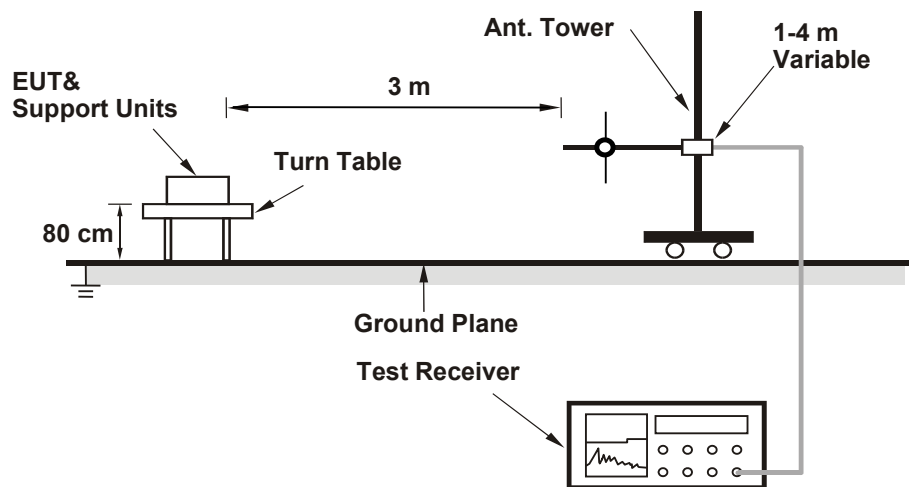
6.6 Unwanted Emissions below 1 GHz

6.6.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



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

6.6.2 Test Procedure

For Radiated emission below 30 MHz

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

Notes:

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

For Radiated emission above 30 MHz

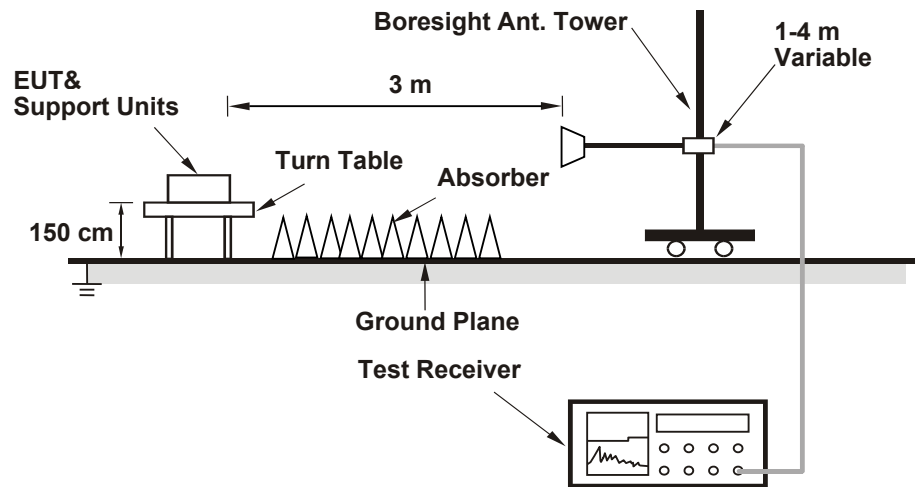
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the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

Notes:

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

6.7 Unwanted Emissions above 1 GHz

6.7.1 Test Setup



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

6.7.2 Test Procedure

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

Notes:

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

7 Test Results of Test Item

7.1 RF Output Power

Input Power:	3.3 Vdc	Environmental Conditions:	27°C, 62% RH	Tested By:	Kevin Ko
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1Tx

For Peak Power

802.11b

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
1	2412	207.014	23.16	30	Pass
2	2417	230.675	23.63	30	Pass
6	2437	257.04	24.10	30	Pass
10	2457	201.837	23.05	30	Pass
11	2462	202.302	23.06	30	Pass
12	2467	143.88	21.58	30	Pass
13	2472	50.816	17.06	30	Pass

Note: The antenna gain is 3.4 dBi <= 6 dBi, so the output power limit shall not be reduced.

802.11g

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
1	2412	145.211	21.62	30	Pass
2	2417	202.768	23.07	30	Pass
6	2437	457.088	26.60	30	Pass
10	2457	221.309	23.45	30	Pass
11	2462	177.011	22.48	30	Pass
12	2467	159.588	22.03	30	Pass
13	2472	95.28	19.79	30	Pass

Note: The antenna gain is 3.4 dBi <= 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT20)

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
1	2412	191.867	22.83	30	Pass
2	2417	214.289	23.31	30	Pass
6	2437	467.735	26.70	30	Pass
10	2457	212.324	23.27	30	Pass
11	2462	181.97	22.60	30	Pass
12	2467	150.314	21.77	30	Pass
13	2472	106.17	20.26	30	Pass

Note: The antenna gain is 3.4 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT40)

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
3	2422	180.717	22.57	30	Pass
6	2437	222.331	23.47	30	Pass
9	2452	179.061	22.53	30	Pass
10	2457	177.011	22.48	30	Pass
11	2462	104.954	20.21	30	Pass

Note: The antenna gain is 3.4 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT20) 26-tone RU

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
1	2412	198.153	22.97	30	Pass
2	2417	332.66	25.22	30	Pass
6	2437	393.55	25.95	30	Pass
10	2457	328.852	25.17	30	Pass
11	2462	302.691	24.81	30	Pass
12	2467	306.196	24.86	30	Pass
13	2472	141.254	21.50	30	Pass

Note: The antenna gain is 3.4 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT20) 52-tone RU

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
1	2412	238.781	23.78	30	Pass
2	2417	322.107	25.08	30	Pass
6	2437	379.315	25.79	30	Pass
10	2457	316.228	25.00	30	Pass
11	2462	220.293	23.43	30	Pass
12	2467	258.226	24.12	30	Pass
13	2472	179.061	22.53	30	Pass

Note: The antenna gain is 3.4 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT20) 106-tone RU

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
1	2412	338.065	25.29	30	Pass
2	2417	308.319	24.89	30	Pass
6	2437	392.645	25.94	30	Pass
10	2457	325.837	25.13	30	Pass
11	2462	335.738	25.26	30	Pass
12	2467	237.137	23.75	30	Pass
13	2472	202.768	23.07	30	Pass

Note: The antenna gain is 3.4 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT20) 52+26-tone MRU

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
1	2412	317.687	25.02	30	Pass
2	2417	295.801	24.71	30	Pass
6	2437	377.572	25.77	30	Pass
10	2457	293.089	24.67	30	Pass
11	2462	249.459	23.97	30	Pass
12	2467	165.959	22.20	30	Pass
13	2472	206.063	23.14	30	Pass

Note: The antenna gain is 3.4 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT20) 106+26-tone MRU

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
1	2412	302.691	24.81	30	Pass
2	2417	340.408	25.32	30	Pass
6	2437	378.443	25.78	30	Pass
10	2457	339.625	25.31	30	Pass
11	2462	334.195	25.24	30	Pass
12	2467	258.226	24.12	30	Pass
13	2472	260.615	24.16	30	Pass

Note: The antenna gain is 3.4 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

For Average Power

802.11b

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
1	2412	131.22	21.18
2	2417	149.968	21.76
6	2437	165.959	22.20
10	2457	130.918	21.17
11	2462	130.317	21.15
12	2467	93.111	19.69
13	2472	33.037	15.19

802.11g

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
1	2412	59.02	17.71
2	2417	71.945	18.57
6	2437	165.959	22.20
10	2457	82.604	19.17
11	2462	66.834	18.25
12	2467	59.156	17.72
13	2472	32.509	15.12

802.11be (EHT20)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
1	2412	65.615	18.17
2	2417	73.961	18.69
6	2437	165.959	22.20
10	2457	72.778	18.62
11	2462	58.884	17.70
12	2467	52.24	17.18
13	2472	36.559	15.63

802.11be (EHT40)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
3	2422	51.523	17.12
6	2437	66.988	18.26
9	2452	53.456	17.28
10	2457	53.58	17.29
11	2462	28.973	14.62

802.11be (EHT20) 26-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
1	2412	37.411	15.73
2	2417	61.944	17.92
6	2437	85.31	19.31
10	2457	61.66	17.90
11	2462	61.235	17.87
12	2467	50.119	17.00
13	2472	24.831	13.95

802.11be (EHT20) 52-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
1	2412	46.238	16.65
2	2417	42.073	16.24
6	2437	83.56	19.22
10	2457	45.814	16.61
11	2462	40.644	16.09
12	2467	46.881	16.71
13	2472	26.242	14.19

802.11be (EHT20) 106-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
1	2412	53.827	17.31
2	2417	47.753	16.79
6	2437	91.201	19.60
10	2457	54.828	17.39
11	2462	46.881	16.71
12	2467	35.563	15.51
13	2472	32.211	15.08

802.11be (EHT20) 52+26-tone MRU

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
1	2412	57.28	17.58
2	2417	46.132	16.64
6	2437	87.096	19.40
10	2457	46.452	16.67
11	2462	42.073	16.24
12	2467	29.04	14.63
13	2472	29.648	14.72

802.11be (EHT20) 106+26-tone MRU

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
1	2412	50.234	17.01
2	2417	47.863	16.80
6	2437	79.983	19.03
10	2457	57.677	17.61
11	2462	56.494	17.52
12	2467	48.306	16.84
13	2472	45.29	16.56

Input Power:	3.3 Vdc	Environmental Conditions:	27°C, 62% RH	Tested By:	Kevin Ko
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2Tx

For Peak Power

802.11b

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	22.61	22.57	363.107	25.60	30	Pass
2	2417	22.68	22.57	366.071	25.64	30	Pass
6	2437	23.60	23.50	452.959	26.56	30	Pass
10	2457	23.18	23.11	412.614	26.16	30	Pass
11	2462	23.19	23.08	411.685	26.15	30	Pass
12	2467	17.06	17.02	101.166	20.05	30	Pass
13	2472	14.12	14.08	51.408	17.11	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3.4 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11g

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	21.96	22.89	351.572	25.46	30	Pass
2	2417	23.02	23.79	439.779	26.43	30	Pass
6	2437	26.20	26.70	884.605	29.47	30	Pass
10	2457	22.89	23.18	402.506	26.05	30	Pass
11	2462	22.19	22.48	342.588	25.35	30	Pass
12	2467	21.76	22.08	311.404	24.93	30	Pass
13	2472	19.42	19.67	180.181	22.56	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3.4 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT20)

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	21.42	22.06	299.37	24.76	30	Pass
2	2417	22.98	23.18	406.579	26.09	30	Pass
6	2437	25.27	25.48	689.695	28.39	30	Pass
10	2457	22.83	22.96	389.564	25.91	30	Pass
11	2462	21.86	22.08	314.898	24.98	30	Pass
12	2467	21.08	21.37	265.321	24.24	30	Pass
13	2472	19.18	19.29	167.712	22.25	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3.4 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT40)

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
3	2422	20.97	21.08	253.259	24.04	30	Pass
6	2437	21.86	22.03	313.05	24.96	30	Pass
9	2452	21.12	21.48	270.024	24.31	30	Pass
10	2457	20.51	20.79	232.41	23.66	30	Pass
11	2462	18.17	18.59	137.892	21.40	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3.4 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT20) 26-tone RU

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	25.79	25.35	721.995	28.59	30	Pass
2	2417	25.77	25.31	717.024	28.56	30	Pass
6	2437	26.03	25.93	792.609	28.99	30	Pass
10	2457	25.67	25.29	707.042	28.49	30	Pass
11	2462	25.68	25.34	711.808	28.52	30	Pass
12	2467	25.07	23.39	539.639	27.32	30	Pass
13	2472	24.06	23.88	499.026	26.98	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3.4 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT20) 52-tone RU

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	25.63	25.52	722.046	28.59	30	Pass
2	2417	25.89	26.13	798.354	29.02	30	Pass
6	2437	25.92	26.45	832.411	29.20	30	Pass
10	2457	25.08	24.25	587.934	27.69	30	Pass
11	2462	24.92	25.73	684.567	28.35	30	Pass
12	2467	25.97	26.25	817.063	29.12	30	Pass
13	2472	24.09	23.57	483.958	26.85	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3.4 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT20) 106-tone RU

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	25.60	25.33	704.271	28.48	30	Pass
2	2417	25.10	24.84	628.383	27.98	30	Pass
6	2437	25.88	25.91	776.754	28.90	30	Pass
10	2457	25.35	25.19	673.137	28.28	30	Pass
11	2462	25.17	25.11	653.191	28.15	30	Pass
12	2467	24.32	24.28	538.313	27.31	30	Pass
13	2472	23.28	23.17	420.207	26.23	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3.4 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT20) 52+26-tone MRU

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	25.39	25.03	664.359	28.22	30	Pass
2	2417	25.84	25.67	752.685	28.77	30	Pass
6	2437	25.18	25.37	673.96	28.29	30	Pass
10	2457	24.02	23.76	490.032	26.90	30	Pass
11	2462	23.83	23.56	468.533	26.71	30	Pass
12	2467	23.55	23.35	442.736	26.46	30	Pass
13	2472	21.99	21.71	306.377	24.86	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3.4 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT20) 106+26-tone MRU

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	25.71	25.65	740.017	28.69	30	Pass
2	2417	25.83	25.73	756.935	28.79	30	Pass
6	2437	25.99	25.81	778.257	28.91	30	Pass
10	2457	24.86	24.56	591.955	27.72	30	Pass
11	2462	24.42	24.32	547.09	27.38	30	Pass
12	2467	23.44	23.12	425.917	26.29	30	Pass
13	2472	23.24	22.01	369.717	25.68	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3.4 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

For Average Power

802.11b

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
1	2412	20.66	20.58	230.7	23.63
2	2417	20.76	20.37	228.017	23.58
6	2437	21.66	21.50	287.809	24.59
10	2457	21.18	21.06	258.864	24.13
11	2462	21.20	21.09	260.354	24.16
12	2467	15.12	15.03	64.351	18.09
13	2472	12.11	12.03	32.214	15.08

802.11g

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
1	2412	17.69	17.48	114.725	20.60
2	2417	18.58	18.47	142.418	21.54
6	2437	21.70	21.50	289.165	24.61
10	2457	18.19	18.06	129.891	21.14
11	2462	17.68	17.59	116.025	20.65
12	2467	17.18	17.06	103.056	20.13
13	2472	14.58	14.43	56.441	17.52

802.11be (EHT20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
1	2412	17.12	17.02	101.873	20.08
2	2417	18.18	18.08	130.035	21.14
6	2437	20.59	20.41	224.452	23.51
10	2457	18.19	18.03	129.45	21.12
11	2462	17.12	17.08	102.573	20.11
12	2467	16.58	16.47	89.86	19.54
13	2472	14.16	14.10	51.765	17.14

802.11be (EHT40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
3	2422	16.18	16.02	81.49	19.11
6	2437	17.28	17.06	104.272	20.18
9	2452	16.68	16.57	91.953	19.64
10	2457	16.15	16.06	81.574	19.12
11	2462	13.59	13.47	45.089	16.54

802.11be (EHT20) 26-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
1	2412	16.08	15.96	79.968	19.03
2	2417	16.04	15.92	79.263	18.99
6	2437	18.21	17.96	128.739	21.10
10	2457	16.58	16.32	88.354	19.46
11	2462	16.45	16.35	87.309	19.41
12	2467	16.02	15.95	79.349	19.00
13	2472	12.36	12.28	34.123	15.33

802.11be (EHT20) 52-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
1	2412	16.31	16.29	85.316	19.31
2	2417	16.88	16.91	97.844	19.91
6	2437	18.35	18.21	134.613	21.29
10	2457	15.83	15.89	77.098	18.87
11	2462	15.73	16.01	77.314	18.88
12	2467	15.73	15.63	73.971	18.69
13	2472	13.21	13.01	40.94	16.12

802.11be (EHT20) 106-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
1	2412	15.23	15.05	65.295	18.15
2	2417	15.83	15.97	77.819	18.91
6	2437	17.96	17.76	122.192	20.87
10	2457	16.18	16.11	82.327	19.16
11	2462	15.71	15.52	72.884	18.63
12	2467	14.47	14.35	55.217	17.42
13	2472	14.58	14.37	56.06	17.49

802.11be (EHT20) 52+26-tone MRU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
1	2412	16.72	16.41	90.742	19.58
2	2417	17.32	17.36	108.401	20.35
6	2437	18.45	18.76	145.146	21.62
10	2457	15.27	14.98	65.129	18.14
11	2462	15.13	14.84	63.063	18.00
12	2467	15.21	14.92	64.235	18.08
13	2472	14.29	14.06	52.322	17.19

802.11be (EHT20) 106+26-tone MRU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
1	2412	15.77	15.82	75.952	18.81
2	2417	17.25	17.04	103.671	20.16
6	2437	18.28	17.96	129.815	21.13
10	2457	15.95	15.88	78.081	18.93
11	2462	15.38	15.15	67.248	18.28
12	2467	13.74	13.67	46.94	16.72
13	2472	13.85	13.54	46.86	16.71

7.2 Power Spectral Density

Input Power:	3.3 Vdc	Environmental Conditions:	27°C, 62% RH	Tested By:	Kevin Ko
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1Tx

802.11b

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
1	2412	-1.82	8	Pass
2	2417	-0.82	8	Pass
6	2437	-0.28	8	Pass
10	2457	-0.91	8	Pass
11	2462	-0.93	8	Pass
12	2467	-2.68	8	Pass
13	2472	-7.49	8	Pass

Note: The antenna gain is 3.4 dBi <= 6 dBi, so the power density limit shall not be reduced.

802.11g

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
1	2412	-6.54	8	Pass
2	2417	-5.53	8	Pass
6	2437	-1.37	8	Pass
10	2457	-4.31	8	Pass
11	2462	-4.88	8	Pass
12	2467	-6.11	8	Pass
13	2472	-9.04	8	Pass

Note: The antenna gain is 3.4 dBi <= 6 dBi, so the power density limit shall not be reduced.

802.11be (EHT20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
1	2412	-5.87	8	Pass
2	2417	-5.25	8	Pass
6	2437	-2.44	8	Pass
10	2457	-4.61	8	Pass
11	2462	-6.77	8	Pass
12	2467	-7.34	8	Pass
13	2472	-7.97	8	Pass

Note: The antenna gain is 3.4 dBi <= 6 dBi, so the power density limit shall not be reduced.

802.11be (EHT40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
3	2422	-9.84	8	Pass
6	2437	-8.65	8	Pass
9	2452	-9.16	8	Pass
10	2457	-10.14	8	Pass
11	2462	-12.03	8	Pass

Note: The antenna gain is 3.4 dBi <= 6 dBi, so the power density limit shall not be reduced.

802.11be (EHT20) 26-tone RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
1	2412	-1.40	8	Pass
2	2417	2.58	8	Pass
6	2437	2.08	8	Pass
10	2457	0.76	8	Pass
11	2462	-0.11	8	Pass
12	2467	0.29	8	Pass
13	2472	-3.02	8	Pass

Note: The antenna gain is 3.4 dBi <= 6 dBi, so the power density limit shall not be reduced.

802.11be (EHT20) 52-tone RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
1	2412	-3.08	8	Pass
2	2417	-4.66	8	Pass
6	2437	0.72	8	Pass
10	2457	-2.95	8	Pass
11	2462	-4.78	8	Pass
12	2467	-2.62	8	Pass
13	2472	-4.93	8	Pass

Note: The antenna gain is 3.4 dBi <= 6 dBi, so the power density limit shall not be reduced.

802.11be (EHT20) 106-tone RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
1	2412	-4.31	8	Pass
2	2417	-5.63	8	Pass
6	2437	-2.31	8	Pass
10	2457	-5.59	8	Pass
11	2462	-5.28	8	Pass
12	2467	-6.18	8	Pass
13	2472	-7.05	8	Pass

Note: The antenna gain is 3.4 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11be (EHT20) 52+26-tone MRU

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
1	2412	-3.32	8	Pass
2	2417	-3.75	8	Pass
6	2437	-0.49	8	Pass
10	2457	-5.35	8	Pass
11	2462	-5.65	8	Pass
12	2467	-7.34	8	Pass
13	2472	-6.61	8	Pass

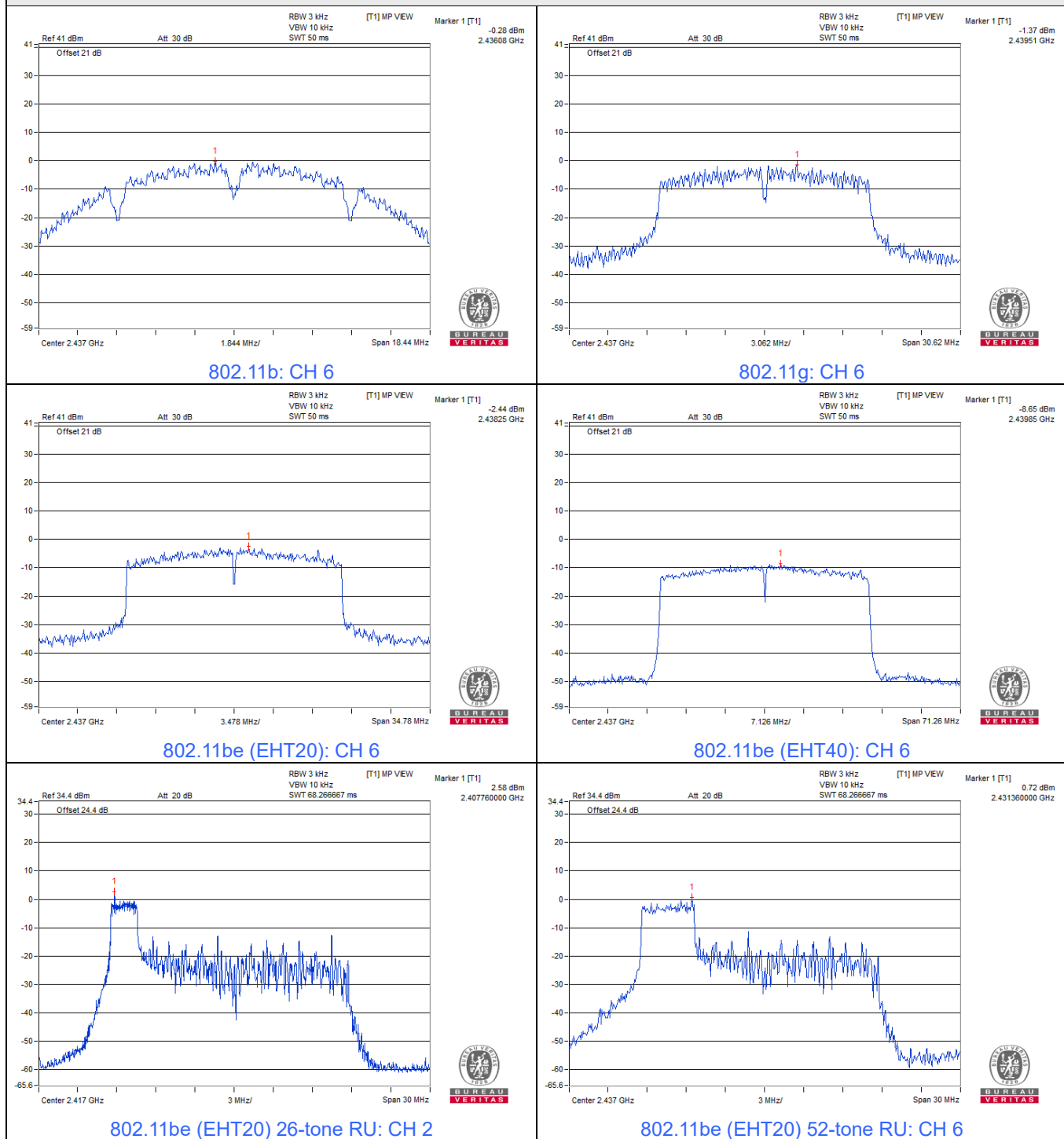
Note: The antenna gain is 3.4 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11be (EHT20) 106+26-tone MRU

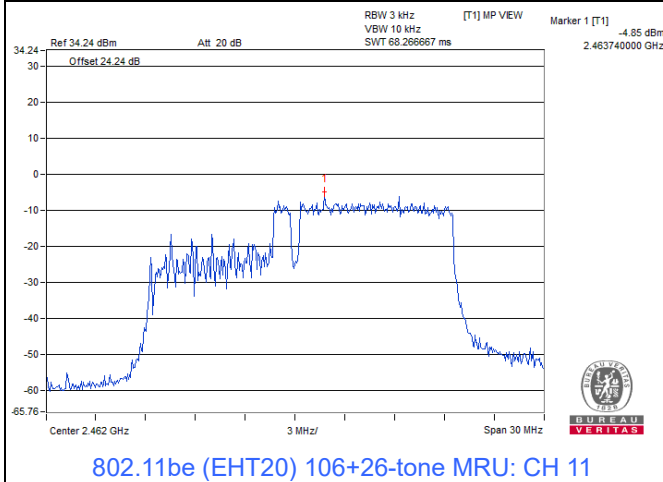
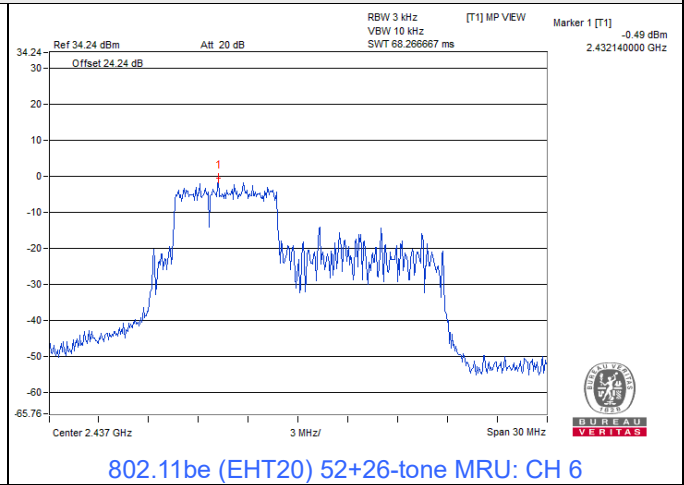
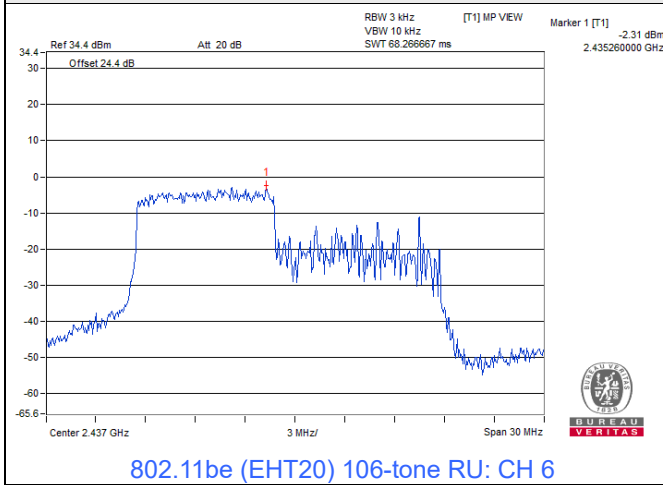
Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
1	2412	-5.04	8	Pass
2	2417	-6.45	8	Pass
6	2437	-5.11	8	Pass
10	2457	-5.26	8	Pass
11	2462	-4.85	8	Pass
12	2467	-6.70	8	Pass
13	2472	-5.85	8	Pass

Note: The antenna gain is 3.4 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

Spectrum Plot of Maximum Value



Spectrum Plot of Maximum Value



Input Power:	3.3 Vdc	Environmental Conditions:	27°C, 62% RH	Tested By:	Kevin Ko
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2Tx

802.11b

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1			
1	2412	-1.68	-1.63	1.36	7.59	Pass
2	2417	-1.54	-1.64	1.42	7.59	Pass
6	2437	-0.60	-0.34	2.54	7.59	Pass
10	2457	-1.07	-0.75	2.10	7.59	Pass
11	2462	-1.06	-0.76	2.10	7.59	Pass
12	2467	-7.50	-7.07	-4.27	7.59	Pass
13	2472	-10.36	-10.28	-7.31	7.59	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 6.41 dBi > 6 dBi, so the power density limit shall be reduced to $8-(6.41-6) = 7.59$ dBm/3kHz.

802.11g

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1			
1	2412	-4.00	-4.99	-1.46	7.59	Pass
2	2417	-4.51	-5.01	-1.74	7.59	Pass
6	2437	-2.41	-1.35	1.16	7.59	Pass
10	2457	-3.79	-5.47	-1.54	7.59	Pass
11	2462	-5.84	-5.05	-2.42	7.59	Pass
12	2467	-6.16	-6.38	-3.26	7.59	Pass
13	2472	-9.34	-8.45	-5.86	7.59	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 6.41 dBi > 6 dBi, so the power density limit shall be reduced to $8-(6.41-6) = 7.59$ dBm/3kHz.

802.11be (EHT20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1			
1	2412	-5.75	-7.30	-3.45	7.59	Pass
2	2417	-6.10	-4.84	-2.41	7.59	Pass
6	2437	-3.39	-3.85	-0.60	7.59	Pass
10	2457	-5.90	-5.47	-2.67	7.59	Pass
11	2462	-7.04	-5.69	-3.30	7.59	Pass
12	2467	-7.00	-6.18	-3.56	7.59	Pass
13	2472	-10.60	-9.56	-7.04	7.59	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 6.41 dBi > 6 dBi, so the power density limit shall be reduced to $8 - (6.41 - 6) = 7.59$ dBm/3kHz.

802.11be (EHT40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1			
3	2422	-10.49	-10.43	-7.45	7.59	Pass
6	2437	-8.83	-8.83	-5.82	7.59	Pass
9	2452	-9.64	-8.24	-5.87	7.59	Pass
10	2457	-10.15	-10.08	-7.10	7.59	Pass
11	2462	-13.02	-12.17	-9.56	7.59	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 6.41 dBi > 6 dBi, so the power density limit shall be reduced to $8 - (6.41 - 6) = 7.59$ dBm/3kHz.

802.11be (EHT20) 26-tone RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1			
1	2412	-2.17	-0.74	1.61	7.59	Pass
2	2417	-2.04	-0.65	1.72	7.59	Pass
6	2437	0.11	-0.02	3.06	7.59	Pass
10	2457	-0.48	-1.61	2.00	7.59	Pass
11	2462	-1.82	-1.56	1.32	7.59	Pass
12	2467	-1.95	-2.58	0.76	7.59	Pass
13	2472	-4.85	-5.80	-2.29	7.59	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 6.41 dBi > 6 dBi, so the power density limit shall be reduced to $8 - (6.41 - 6) = 7.59$ dBm/3kHz.

802.11be (EHT20) 52-tone RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1			
1	2412	-5.67	-4.94	-2.28	7.59	Pass
2	2417	-3.92	-4.67	-1.27	7.59	Pass
6	2437	-2.53	-2.68	0.41	7.59	Pass
10	2457	-5.26	-4.49	-1.85	7.59	Pass
11	2462	-4.60	-4.69	-1.63	7.59	Pass
12	2467	-4.89	-5.26	-2.06	7.59	Pass
13	2472	-6.81	-7.18	-3.98	7.59	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 6.41 dBi > 6 dBi, so the power density limit shall be reduced to $8 - (6.41 - 6) = 7.59$ dBm/3kHz.

802.11be (EHT20) 106-tone RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1			
1	2412	-7.46	-7.38	-4.41	7.59	Pass
2	2417	-6.42	-7.47	-3.90	7.59	Pass
6	2437	-4.78	-4.13	-1.43	7.59	Pass
10	2457	-7.05	-6.73	-3.88	7.59	Pass
11	2462	-5.84	-6.72	-3.25	7.59	Pass
12	2467	-8.73	-7.92	-5.30	7.59	Pass
13	2472	-8.52	-8.04	-5.26	7.59	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 6.41 dBi > 6 dBi, so the power density limit shall be reduced to $8 - (6.41 - 6) = 7.59$ dBm/3kHz.

802.11be (EHT20) 52+26-tone MRU

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1			
1	2412	-5.06	-4.95	-1.99	7.59	Pass
2	2417	-4.77	-4.02	-1.37	7.59	Pass
6	2437	-2.41	-2.94	0.34	7.59	Pass
10	2457	-6.30	-6.49	-3.38	7.59	Pass
11	2462	-6.89	-6.04	-3.43	7.59	Pass
12	2467	-6.54	-7.19	-3.84	7.59	Pass
13	2472	-7.62	-7.02	-4.30	7.59	Pass

Notes:

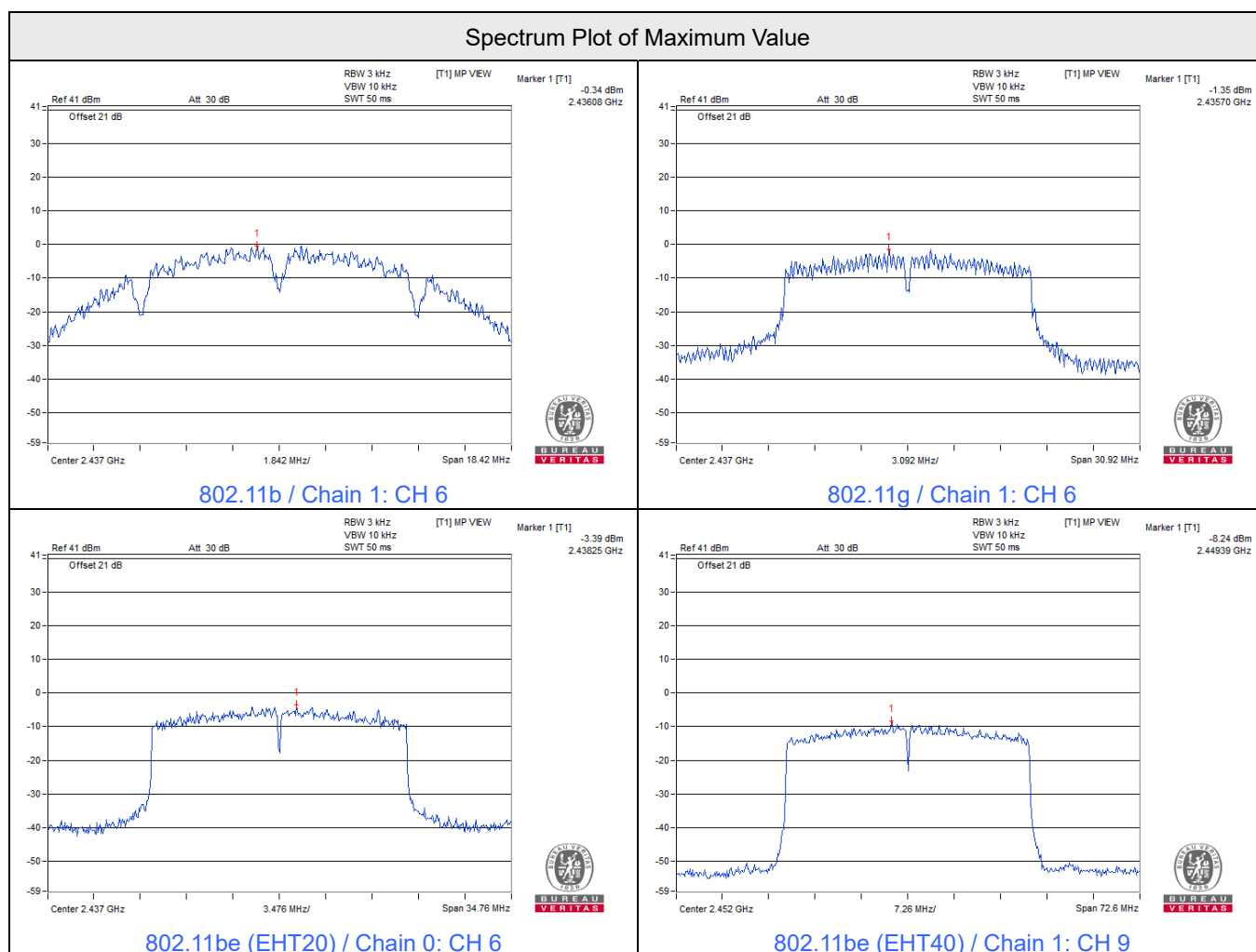
1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. The directional gain is 6.41 dBi > 6 dBi, so the power density limit shall be reduced to $8 - (6.41 - 6) = 7.59$ dBm/3kHz.

802.11be (EHT20) 106+26-tone MRU

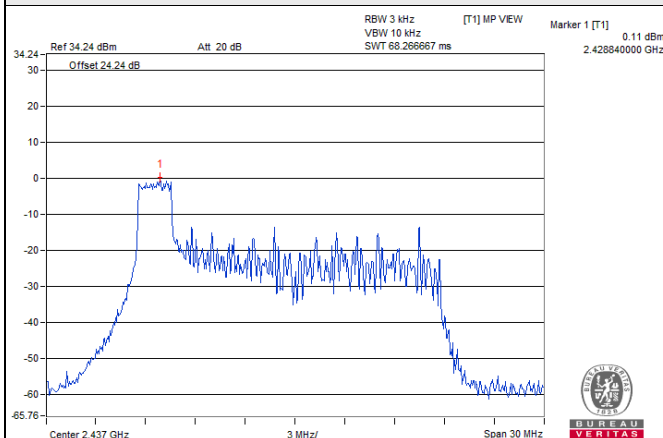
Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1			
1	2412	-8.24	-8.30	-5.26	7.59	Pass
2	2417	-7.13	-7.07	-4.09	7.59	Pass
6	2437	-6.06	-6.55	-3.29	7.59	Pass
10	2457	-7.71	-7.32	-4.50	7.59	Pass
11	2462	-8.92	-7.65	-5.23	7.59	Pass
12	2467	-9.53	-9.38	-6.44	7.59	Pass
13	2472	-10.33	-9.15	-6.69	7.59	Pass

Notes:

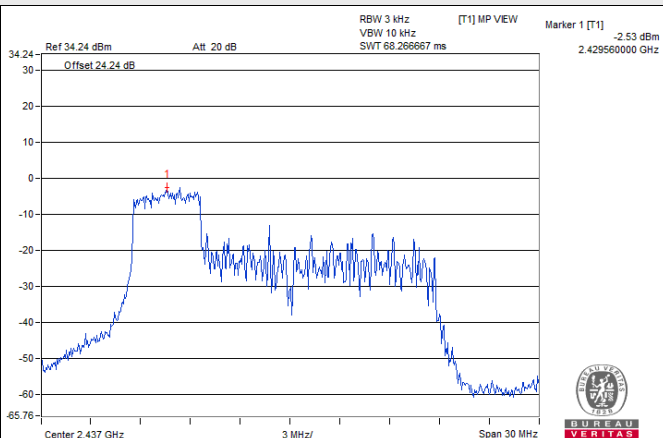
1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. The directional gain is 6.41 dBi > 6 dBi, so the power density limit shall be reduced to $8 - (6.41 - 6) = 7.59$ dBm/3kHz.



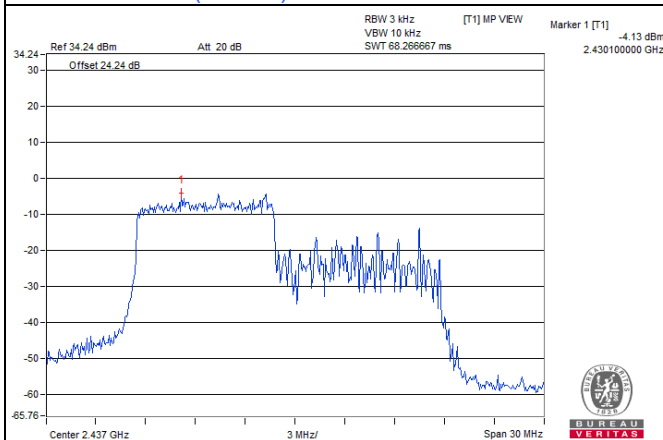
Spectrum Plot of Maximum Value



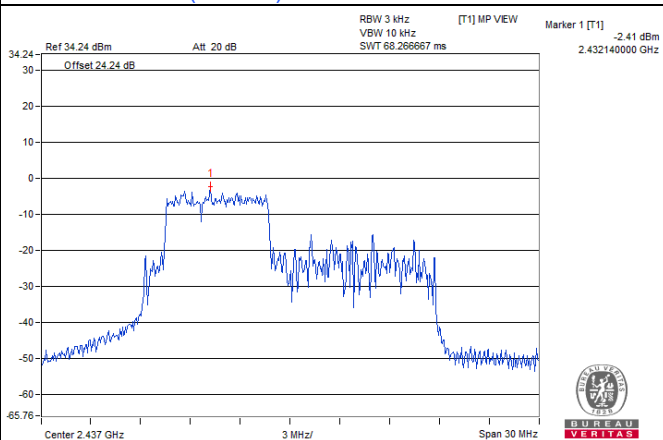
802.11be (EHT20) 26-tone RU / Chain 0: CH 6



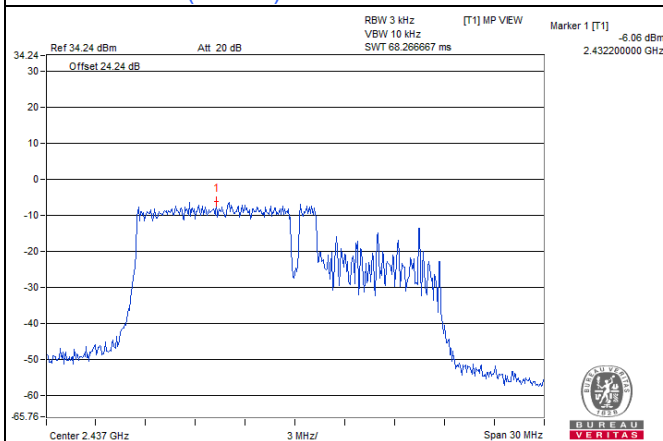
802.11be (EHT20) 52-tone RU / Chain 0: CH 6



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



802.11be (EHT20) 52+26-tone MRU / Chain 0: CH 6



802.11be (EHT20) 106+26-tone MRU / Chain 0: CH 6

7.3 6 dB Bandwidth

Input Power:	3.3 Vdc	Environmental Conditions:	27°C, 62% RH	Tested By:	Kevin Ko
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1Tx

802.11b

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2412	9.21	0.5	Pass
2	2417	9.22	0.5	Pass
6	2437	9.22	0.5	Pass
10	2457	9.18	0.5	Pass
11	2462	9.19	0.5	Pass
12	2467	9.2	0.5	Pass
13	2472	9.19	0.5	Pass

802.11g

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2412	15.48	0.5	Pass
2	2417	15.33	0.5	Pass
6	2437	15.31	0.5	Pass
10	2457	15.33	0.5	Pass
11	2462	15.45	0.5	Pass
12	2467	15.47	0.5	Pass
13	2472	15.31	0.5	Pass

802.11be (EHT20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2412	16.98	0.5	Pass
2	2417	17.41	0.5	Pass
6	2437	17.39	0.5	Pass
10	2457	17.24	0.5	Pass
11	2462	17.1	0.5	Pass
12	2467	16.7	0.5	Pass
13	2472	16.44	0.5	Pass

802.11be (EHT40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
3	2422	35.41	0.5	Pass
6	2437	35.63	0.5	Pass
9	2452	36.33	0.5	Pass
10	2457	35.36	0.5	Pass
11	2462	35.63	0.5	Pass

802.11be (EHT20) 26-tone RU

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2412	2.17	0.5	Pass
2	2417	2.18	0.5	Pass
6	2437	2.2	0.5	Pass
10	2457	2.16	0.5	Pass
11	2462	4.62	0.5	Pass
12	2467	2.18	0.5	Pass
13	2472	2.17	0.5	Pass

802.11be (EHT20) 52-tone RU

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2412	17.13	0.5	Pass
2	2417	17.14	0.5	Pass
6	2437	17.17	0.5	Pass
10	2457	17.05	0.5	Pass
11	2462	17.09	0.5	Pass
12	2467	17.09	0.5	Pass
13	2472	17.07	0.5	Pass

802.11be (EHT20) 106-tone RU

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2412	17.25	0.5	Pass
2	2417	17.27	0.5	Pass
6	2437	17.28	0.5	Pass
10	2457	17.16	0.5	Pass
11	2462	17.19	0.5	Pass
12	2467	17.2	0.5	Pass
13	2472	17.21	0.5	Pass

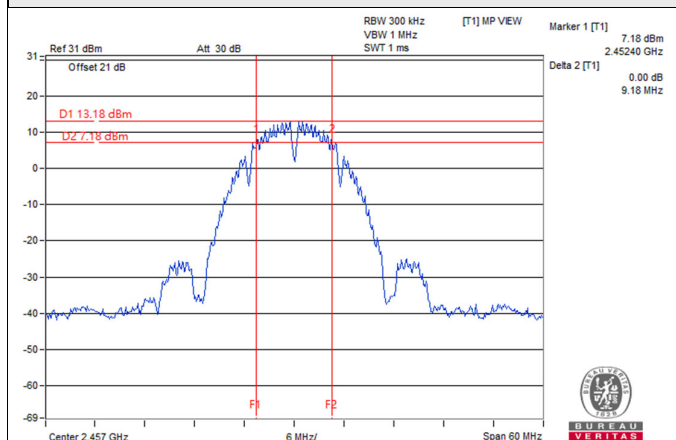
802.11be (EHT20) 52+26-tone MRU

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2412	15.23	0.5	Pass
2	2417	15.23	0.5	Pass
6	2437	15.23	0.5	Pass
10	2457	15.23	0.5	Pass
11	2462	15.25	0.5	Pass
12	2467	15.24	0.5	Pass
13	2472	15.24	0.5	Pass

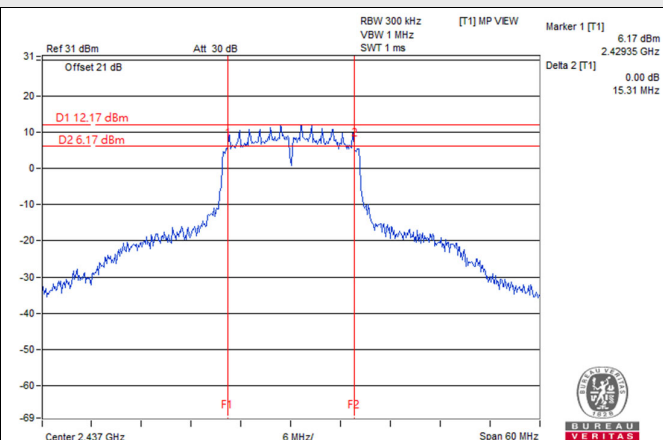
802.11be (EHT20) 106+26-tone MRU

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2412	17.44	0.5	Pass
2	2417	17.44	0.5	Pass
6	2437	17.43	0.5	Pass
10	2457	17.22	0.5	Pass
11	2462	17.22	0.5	Pass
12	2467	17.19	0.5	Pass
13	2472	17.21	0.5	Pass

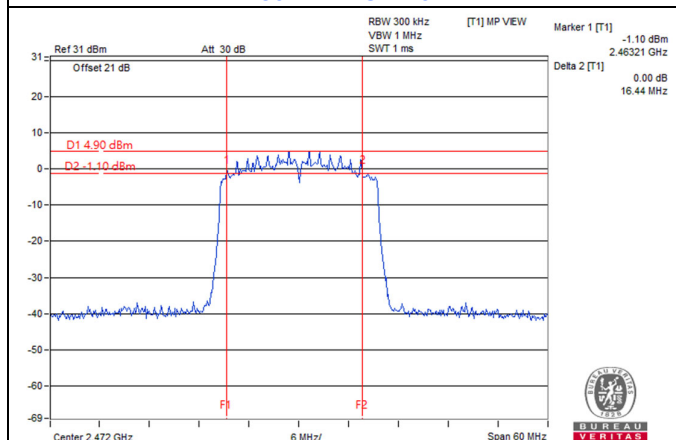
Spectrum Plot of Minimum Value



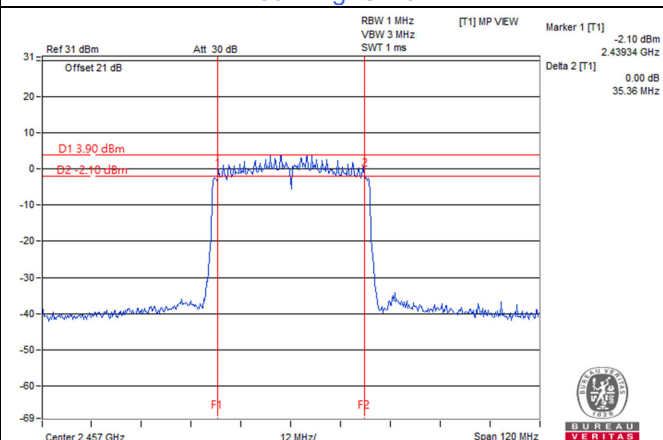
802.11b: CH 10



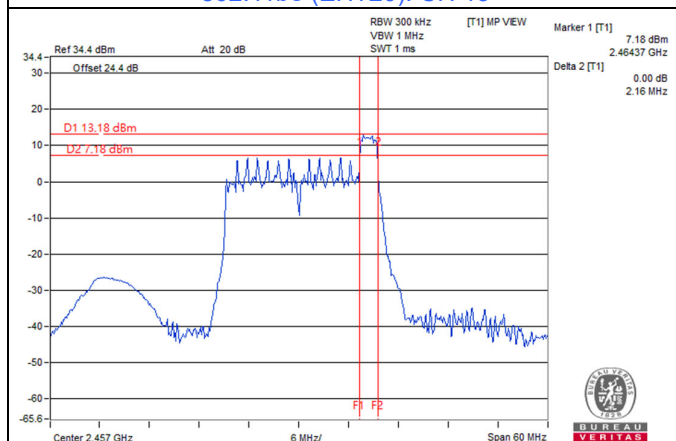
802.11g: CH 6



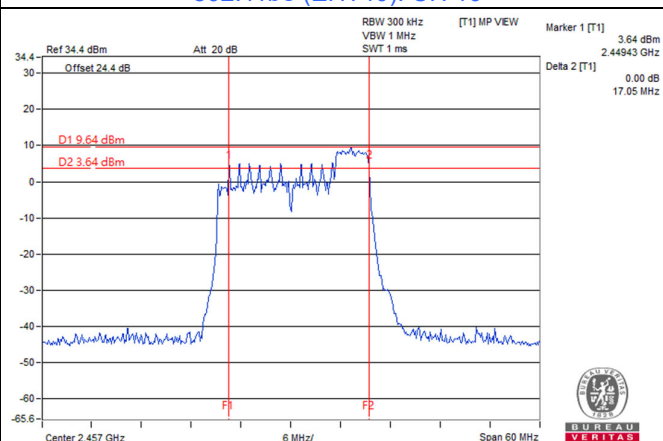
802.11be (EHT20): CH 13



802.11be (EHT40): CH 10

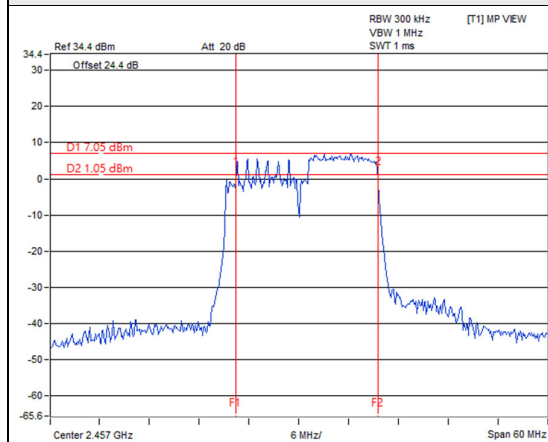


802.11be (EHT20) 26-tone RU: CH 10

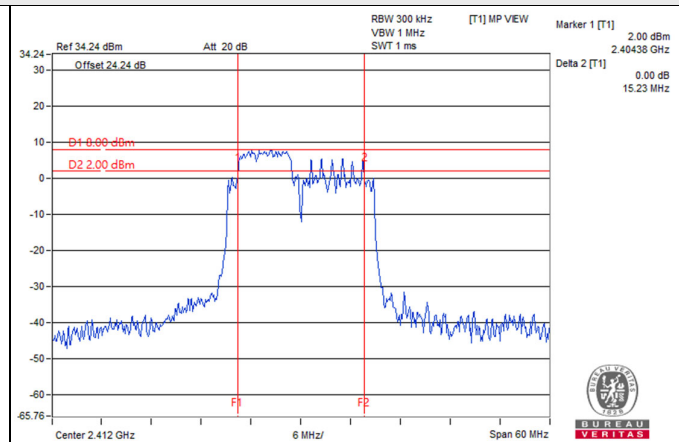


802.11be (EHT20) 52-tone RU: CH 10

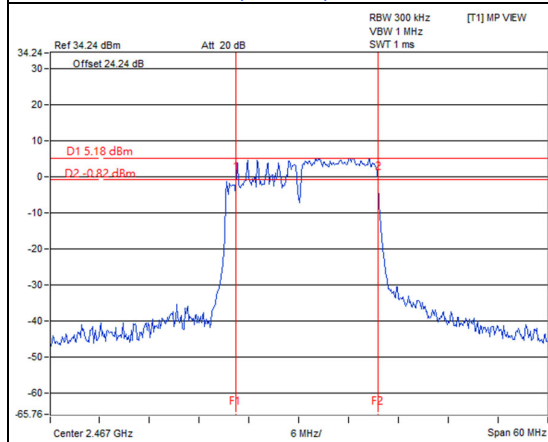
Spectrum Plot of Minimum Value



802.11be (EHT20) 106-tone RU: CH 10



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



802.11be (EHT20) 106+26-tone MRU: CH 12

Input Power:	3.3 Vdc	Environmental Conditions:	27°C, 62% RH	Tested By:	Kevin Ko
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2Tx

802.11b

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	9.19	9.19	0.5	Pass
2	2417	9.18	9.21	0.5	Pass
6	2437	9.24	9.21	0.5	Pass
10	2457	9.23	9.22	0.5	Pass
11	2462	9.22	9.20	0.5	Pass
12	2467	9.18	9.17	0.5	Pass
13	2472	9.19	9.17	0.5	Pass

802.11g

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	15.35	15.32	0.5	Pass
2	2417	15.32	15.34	0.5	Pass
6	2437	15.29	15.46	0.5	Pass
10	2457	15.34	15.31	0.5	Pass
11	2462	15.31	15.44	0.5	Pass
12	2467	15.31	15.33	0.5	Pass
13	2472	15.30	15.31	0.5	Pass

802.11be (EHT20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	16.46	17.57	0.5	Pass
2	2417	17.36	17.59	0.5	Pass
6	2437	17.38	17.60	0.5	Pass
10	2457	17.02	17.57	0.5	Pass
11	2462	17.30	17.60	0.5	Pass
12	2467	16.79	17.59	0.5	Pass
13	2472	16.62	17.62	0.5	Pass

802.11be (EHT40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
3	2422	35.39	35.55	0.5	Pass
6	2437	35.71	35.46	0.5	Pass
9	2452	36.00	36.30	0.5	Pass
10	2457	35.44	36.43	0.5	Pass
11	2462	35.75	35.40	0.5	Pass

802.11be (EHT20) 26-tone RU

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	17.02	2.16	0.5	Pass
2	2417	2.19	14.60	0.5	Pass
6	2437	2.24	2.21	0.5	Pass
10	2457	2.15	2.17	0.5	Pass
11	2462	2.14	2.15	0.5	Pass
12	2467	2.17	2.19	0.5	Pass
13	2472	2.13	2.16	0.5	Pass

802.11be (EHT20) 52-tone RU

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	17.14	17.16	0.5	Pass
2	2417	17.17	17.12	0.5	Pass
6	2437	17.12	17.17	0.5	Pass
10	2457	17.07	17.05	0.5	Pass
11	2462	17.06	17.05	0.5	Pass
12	2467	17.09	17.08	0.5	Pass
13	2472	17.11	17.05	0.5	Pass

802.11be (EHT20) 106-tone RU

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	17.29	17.24	0.5	Pass
2	2417	17.26	17.26	0.5	Pass
6	2437	17.27	17.28	0.5	Pass
10	2457	17.23	17.20	0.5	Pass
11	2462	17.13	17.18	0.5	Pass
12	2467	17.18	17.16	0.5	Pass
13	2472	17.16	17.19	0.5	Pass

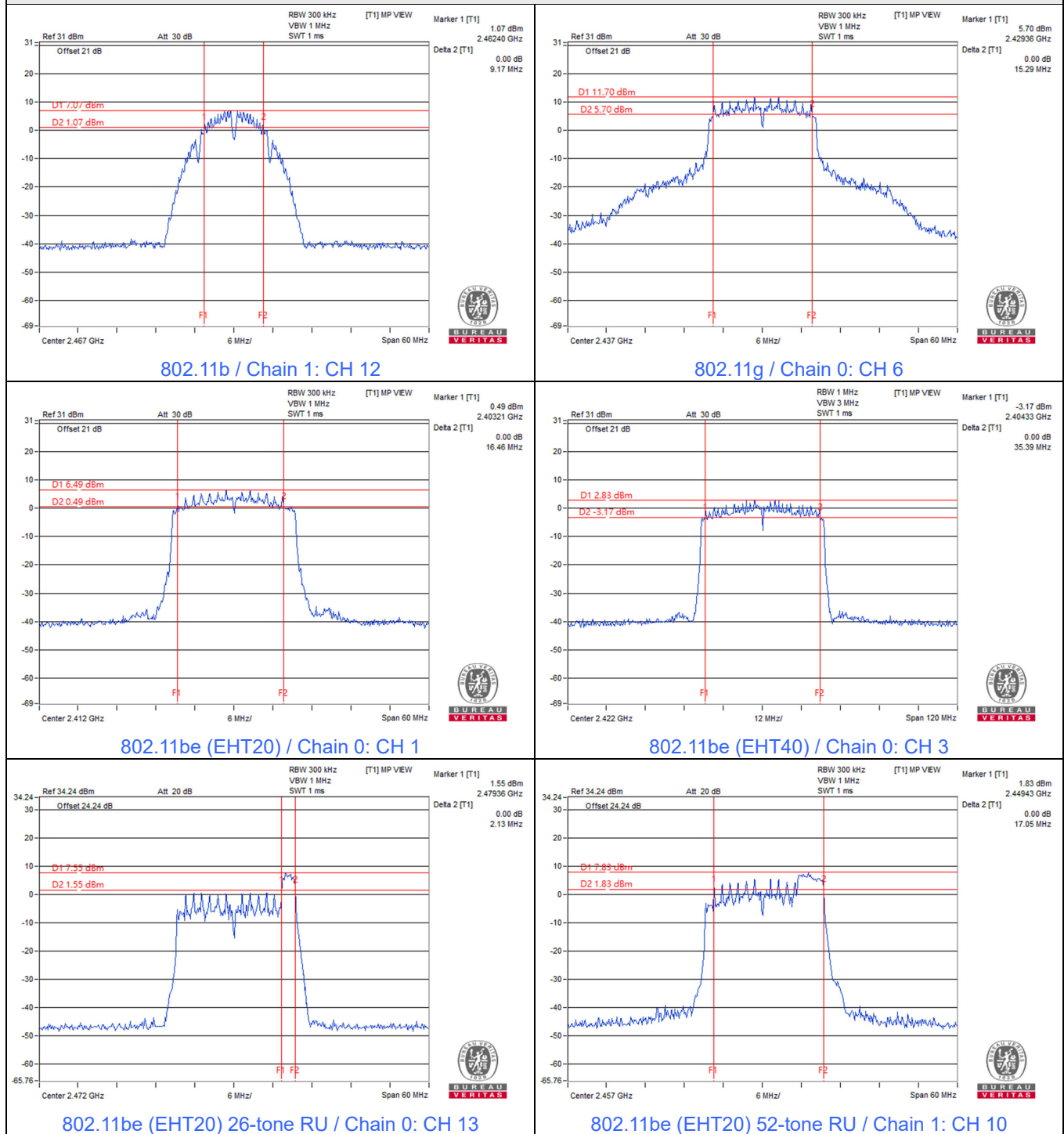
802.11be (EHT20) 52+26-tone MRU

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	15.24	15.25	0.5	Pass
2	2417	15.22	15.24	0.5	Pass
6	2437	15.22	15.24	0.5	Pass
10	2457	15.24	15.22	0.5	Pass
11	2462	15.24	15.22	0.5	Pass
12	2467	15.24	15.22	0.5	Pass
13	2472	15.22	15.24	0.5	Pass

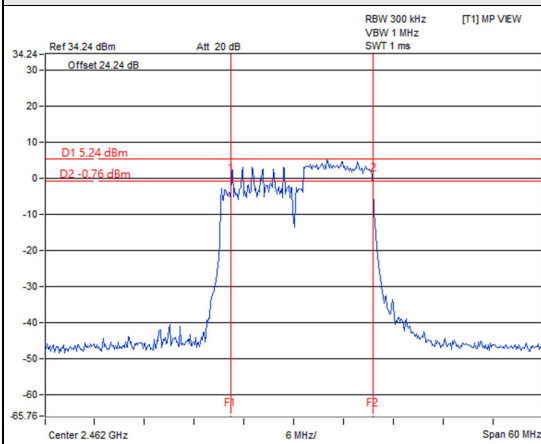
802.11be (EHT20) 106+26-tone MRU

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	17.42	18.36	0.5	Pass
2	2417	18.40	17.45	0.5	Pass
6	2437	17.45	17.43	0.5	Pass
10	2457	17.19	17.19	0.5	Pass
11	2462	17.19	17.23	0.5	Pass
12	2467	17.19	17.22	0.5	Pass
13	2472	17.21	17.21	0.5	Pass

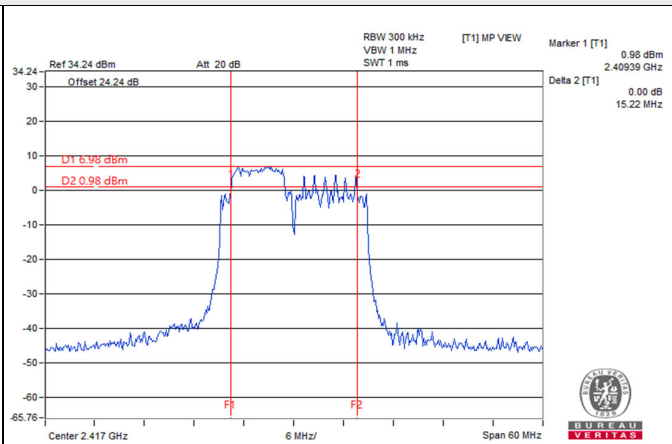
Spectrum Plot of Minimum Value



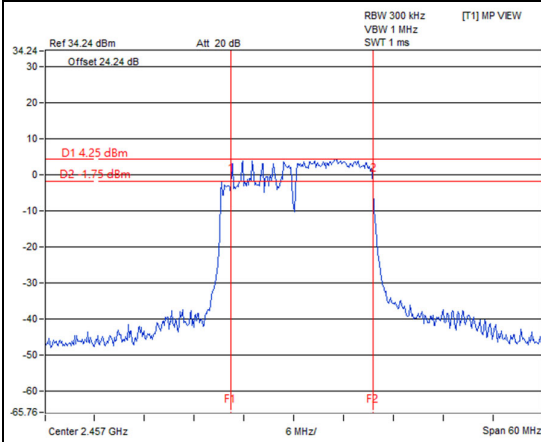
Spectrum Plot of Minimum Value



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



802.11be (EHT20) 52+26-tone MRU / Chain 0: CH 2



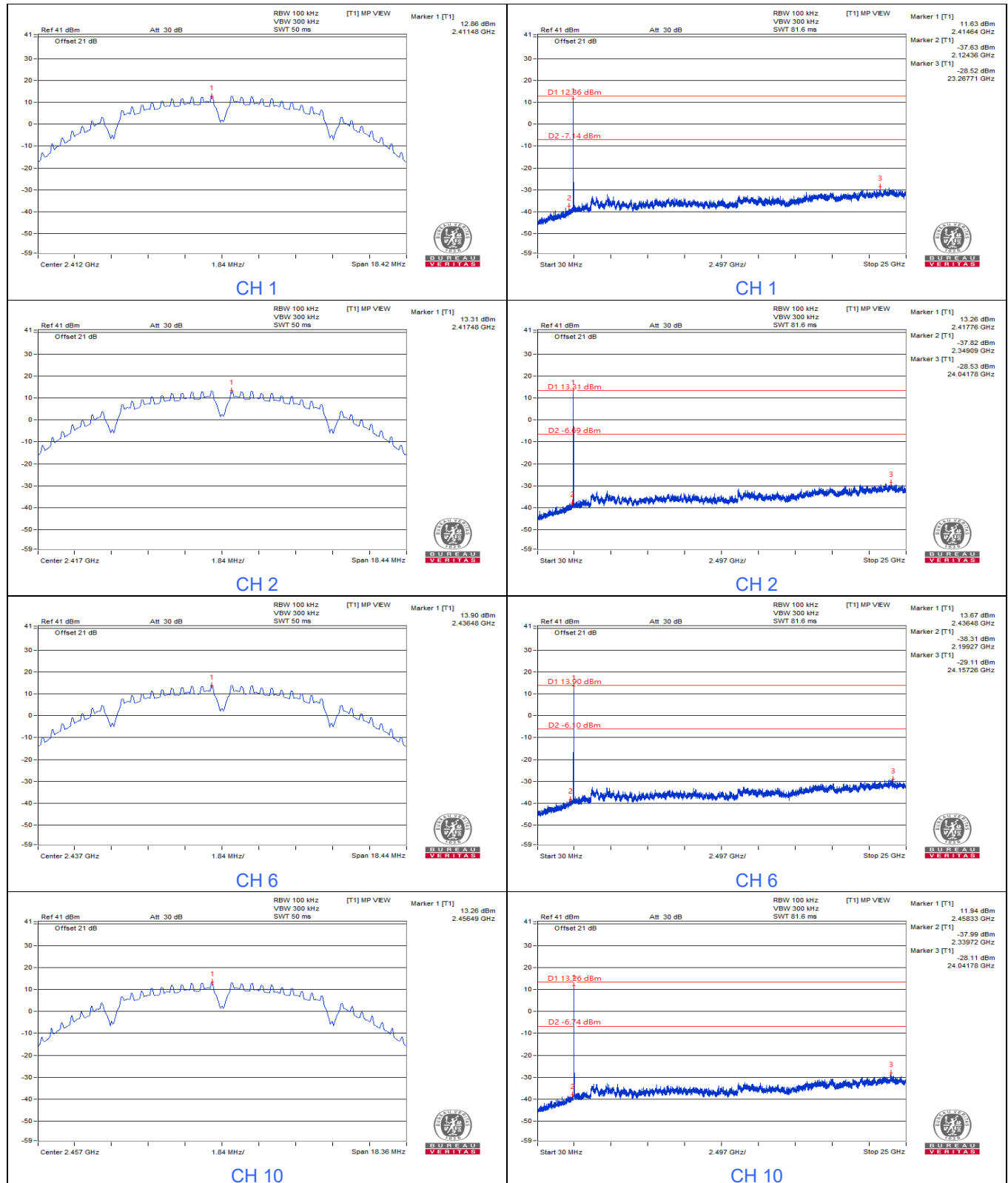
802.11be (EHT20) 106+26-tone MRU / Chain 0: CH 10

7.4 Conducted Out of Band Emissions

Input Power:	3.3 Vdc	Environmental Conditions:	27°C, 62% RH	Tested By:	Kevin Ko
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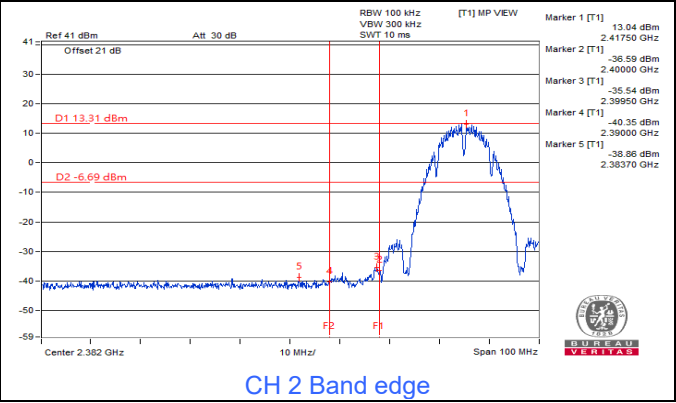
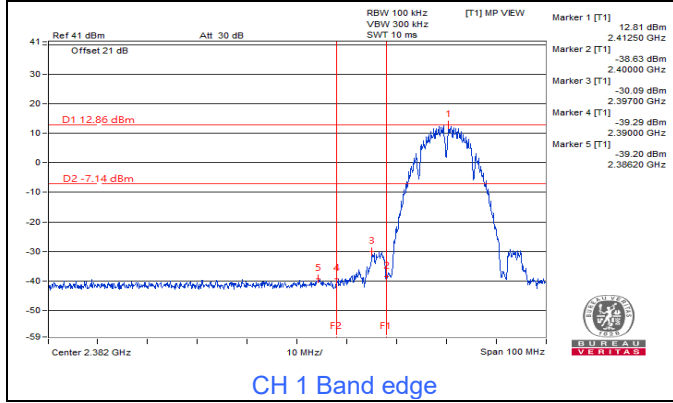
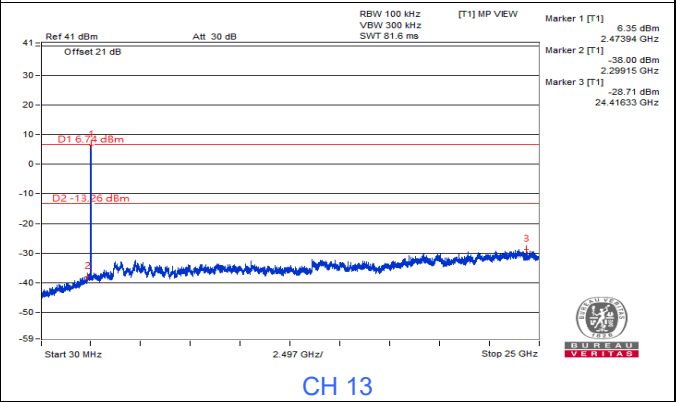
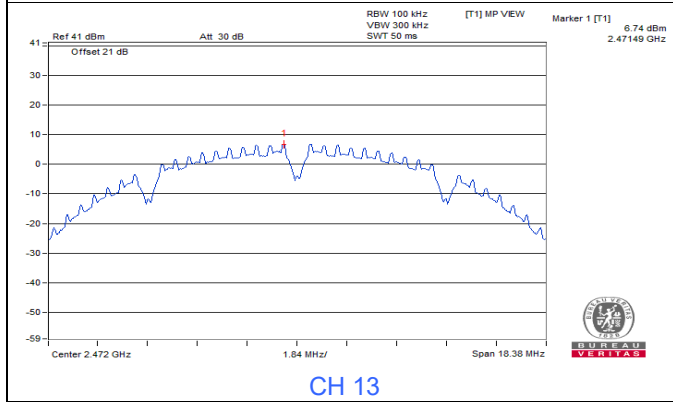
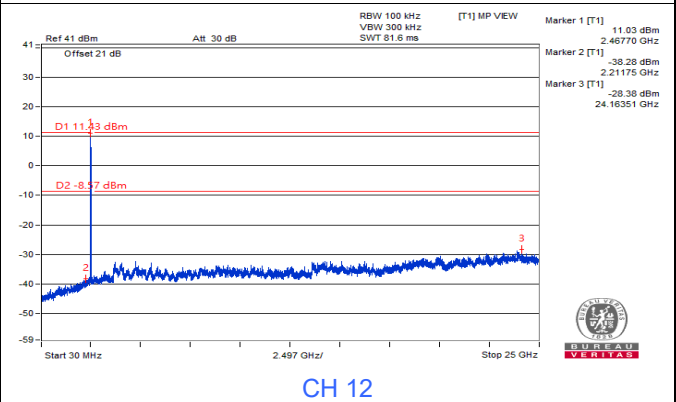
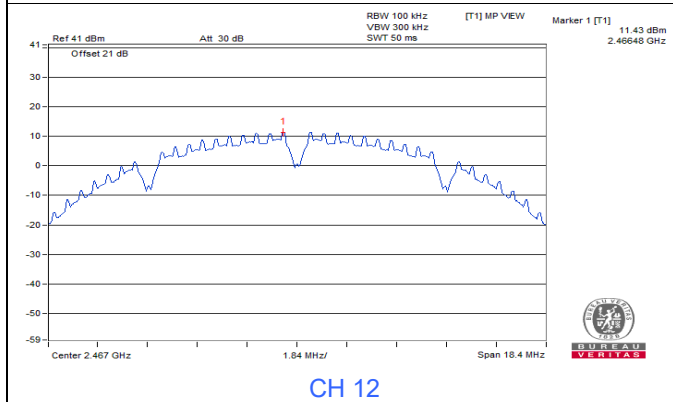
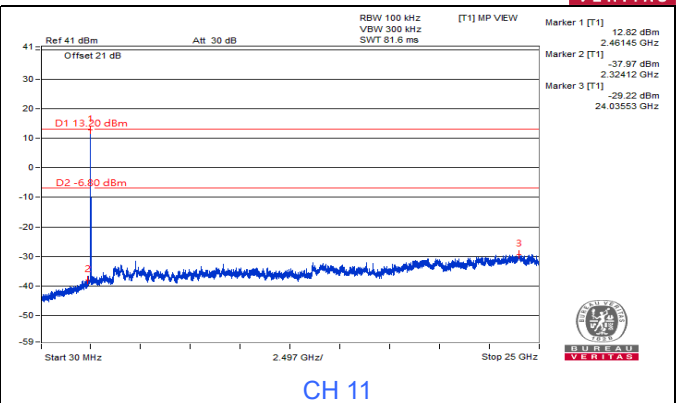
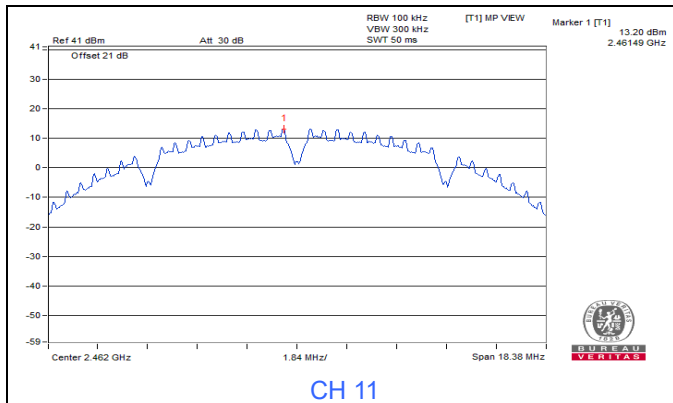
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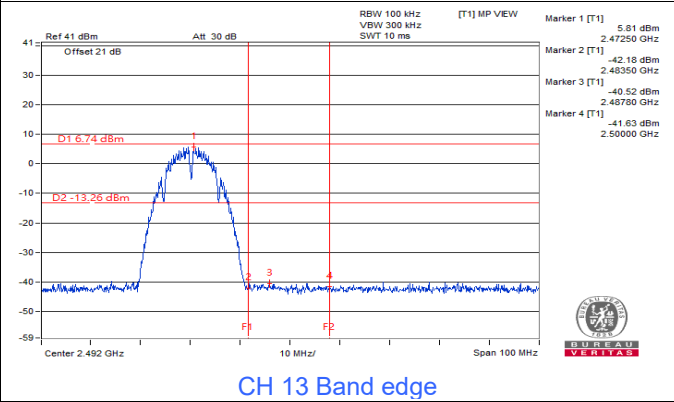
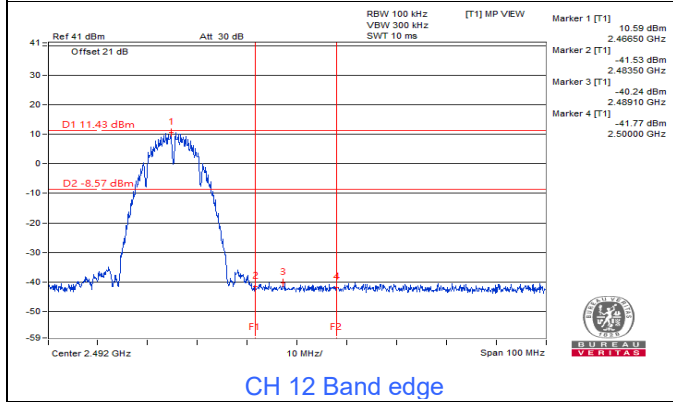
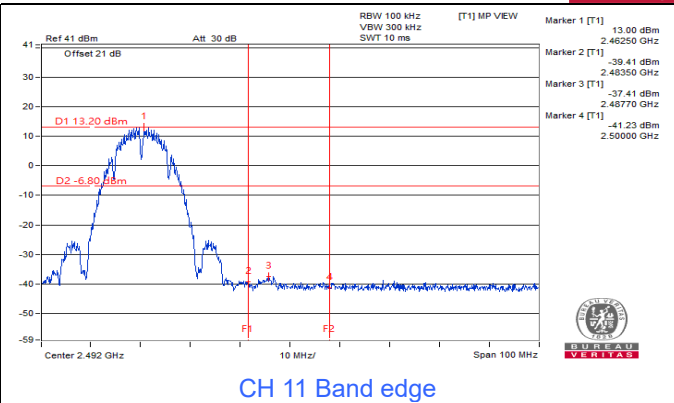
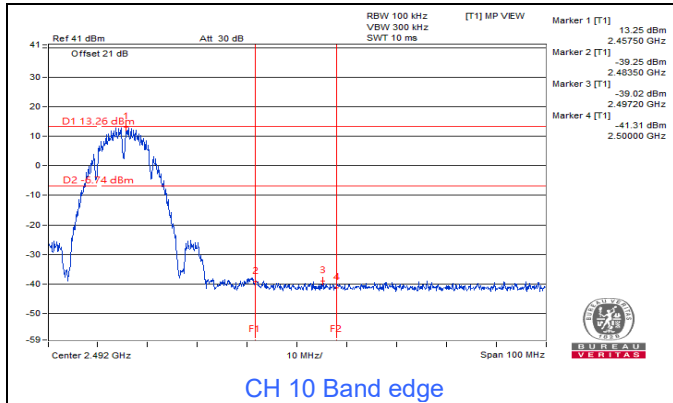
802.11b



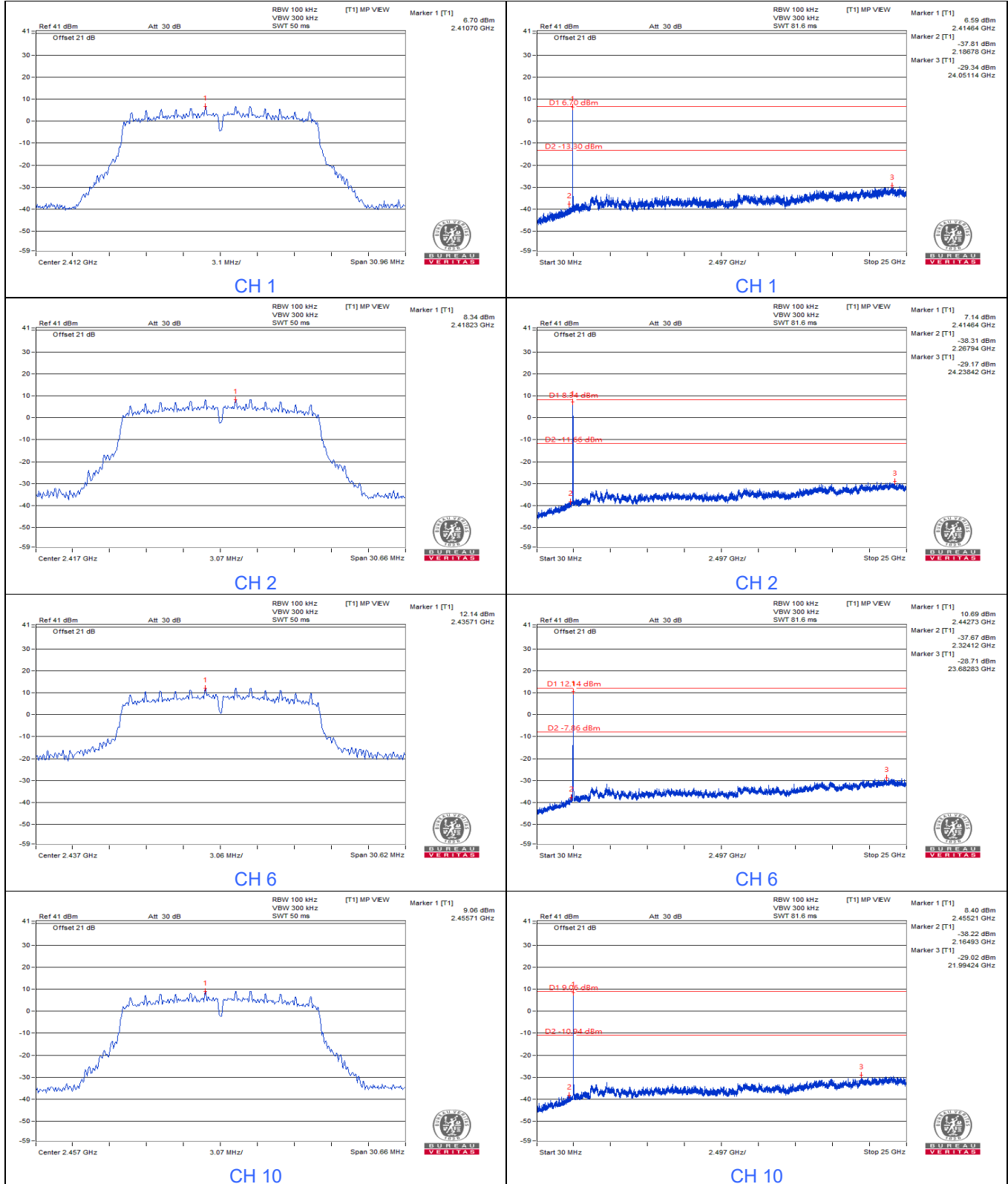


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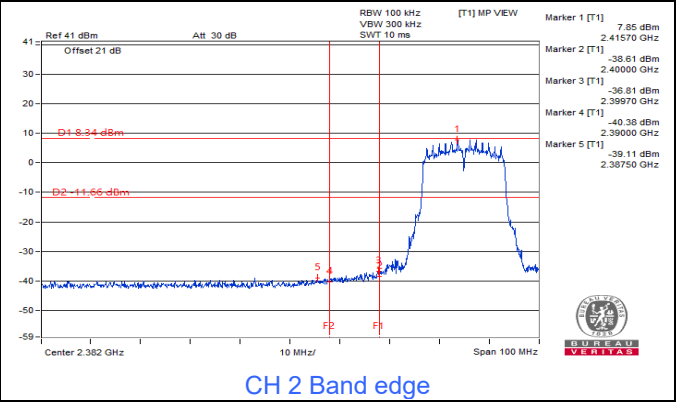
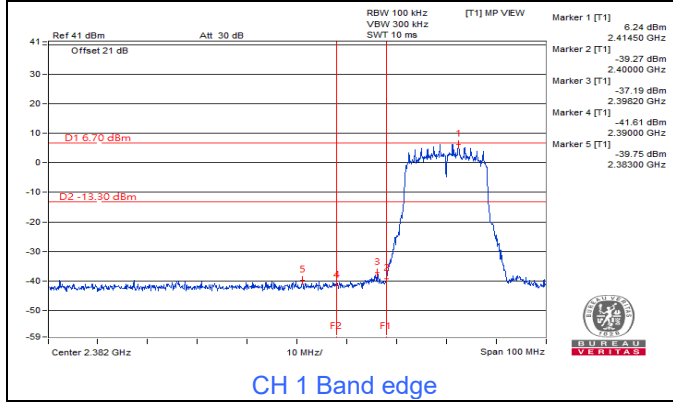
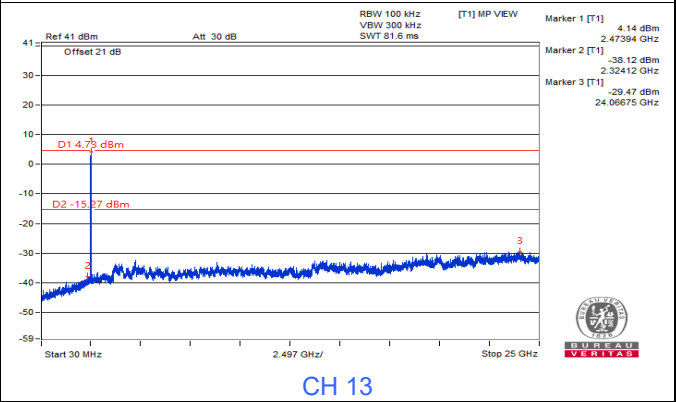
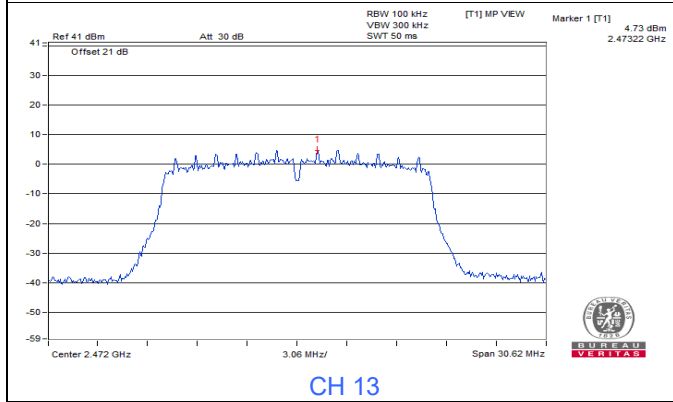
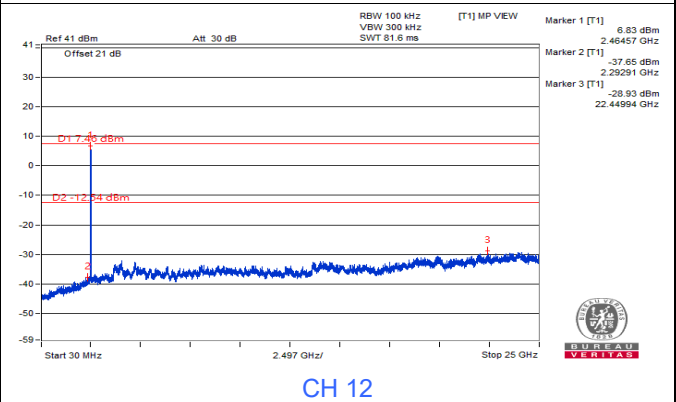
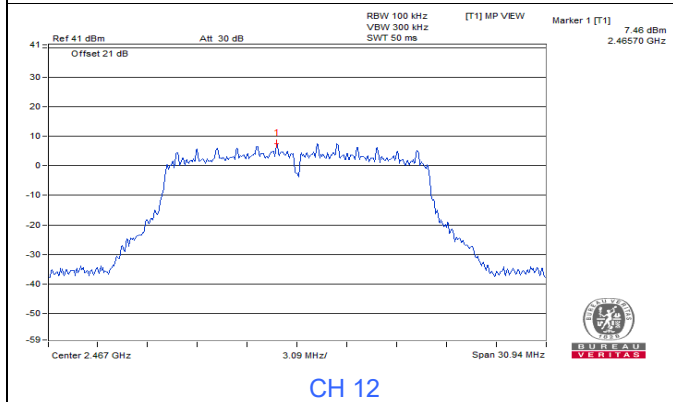
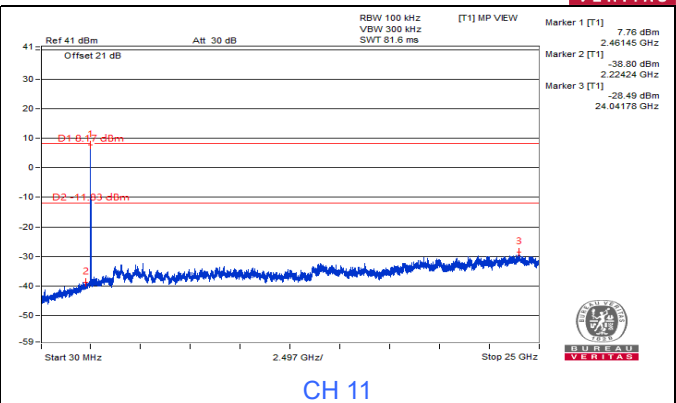
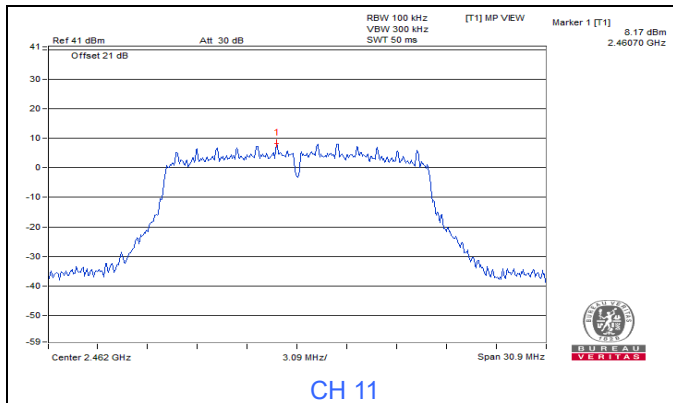


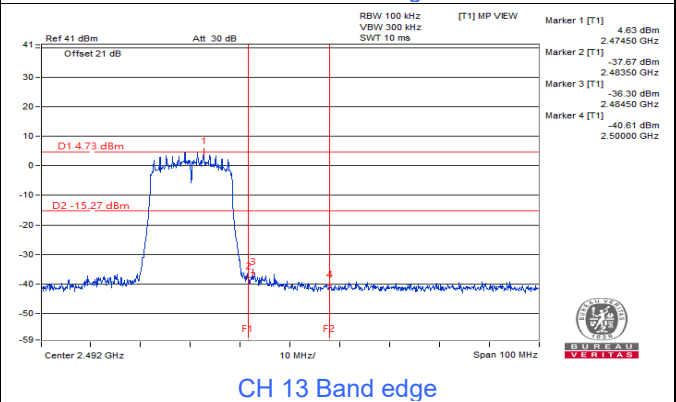
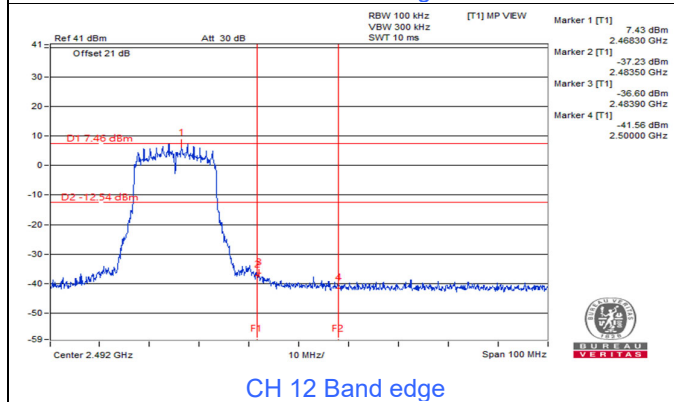
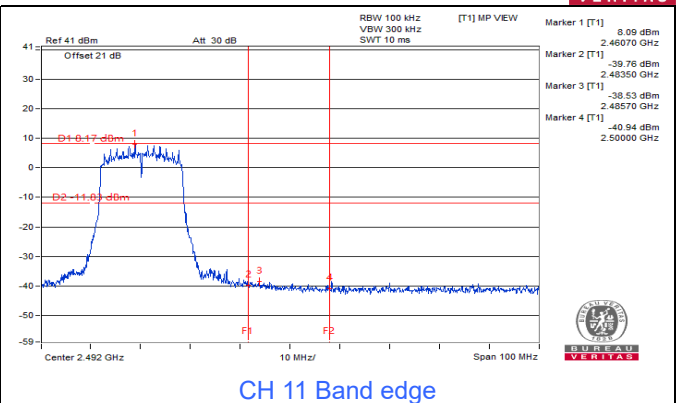
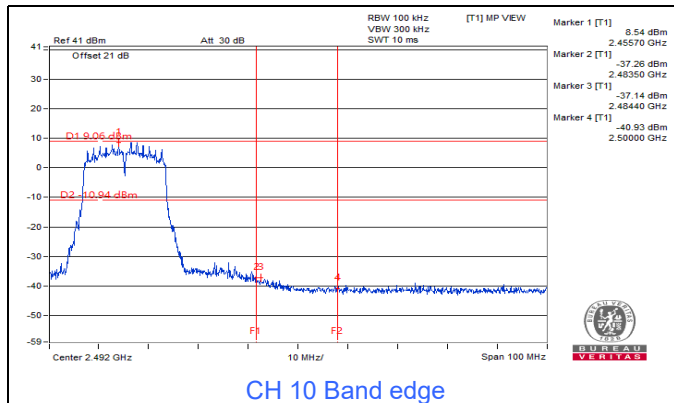
802.11g



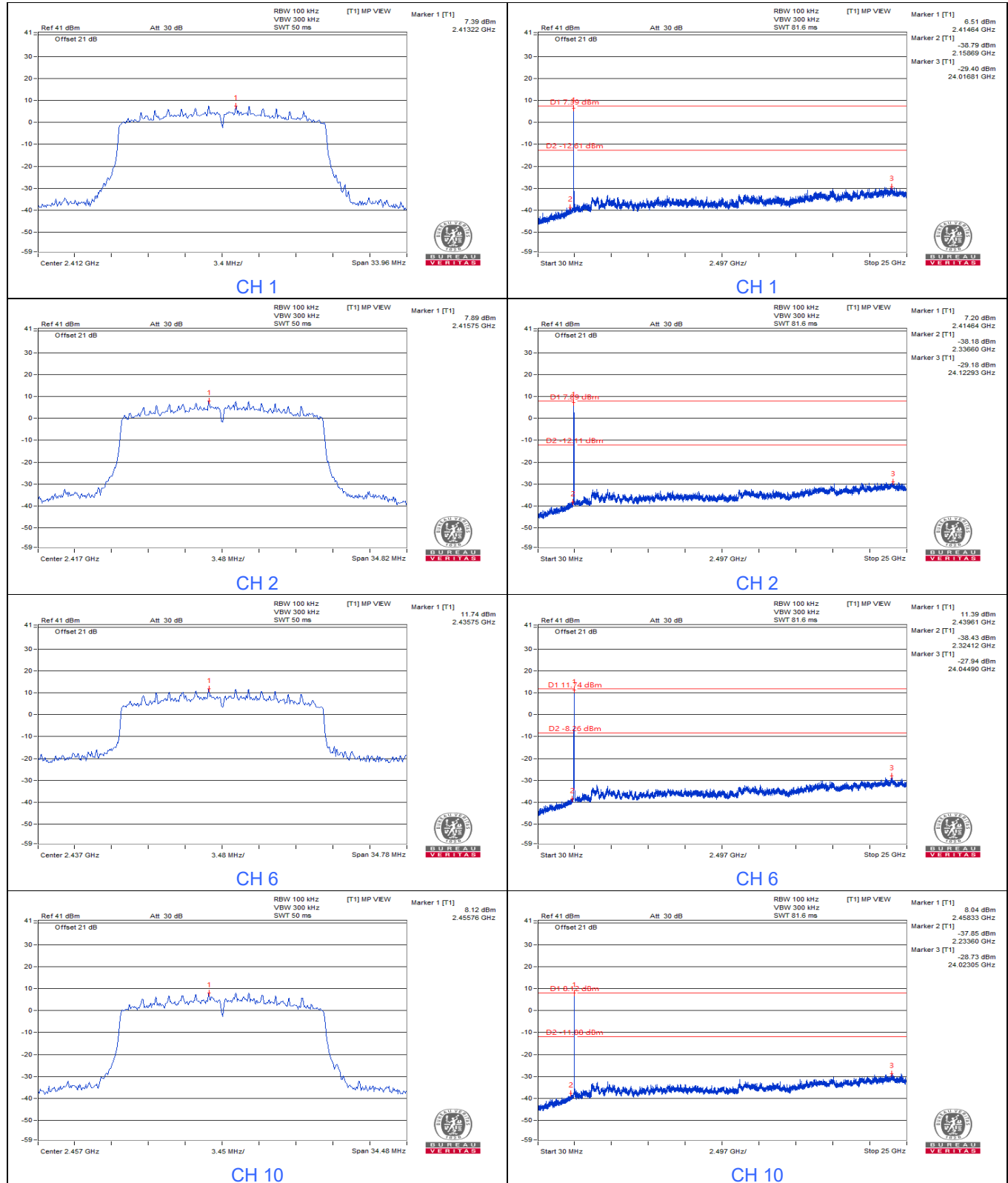


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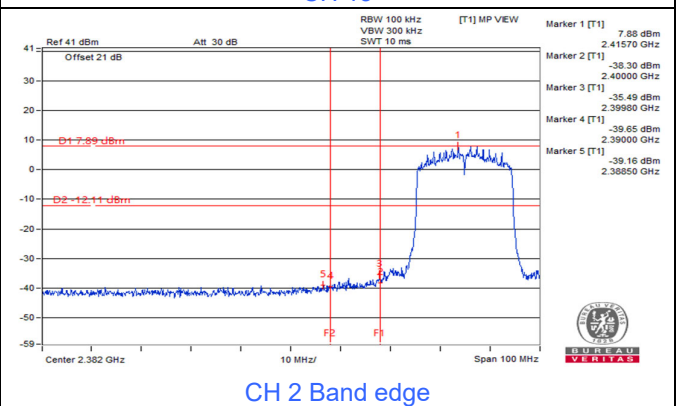
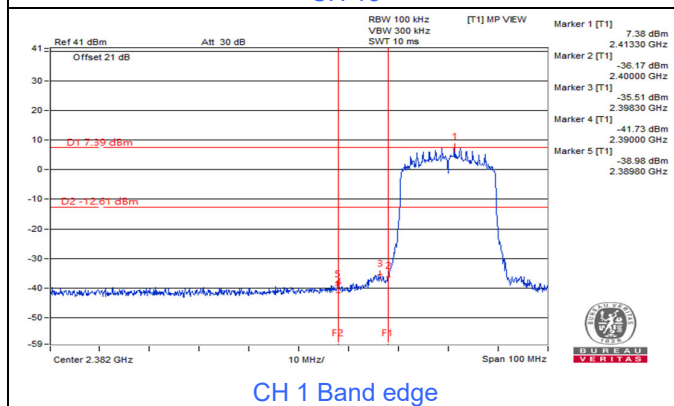
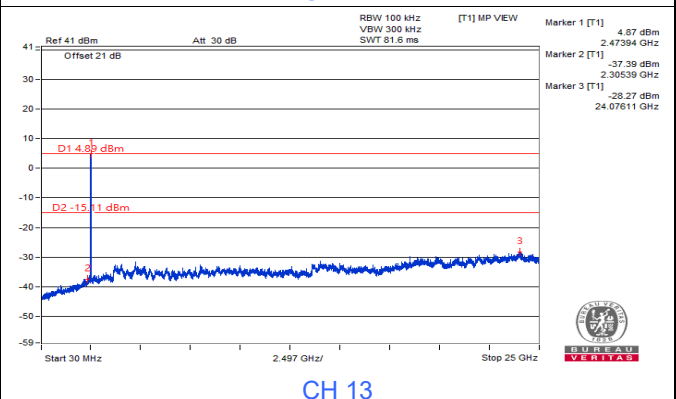
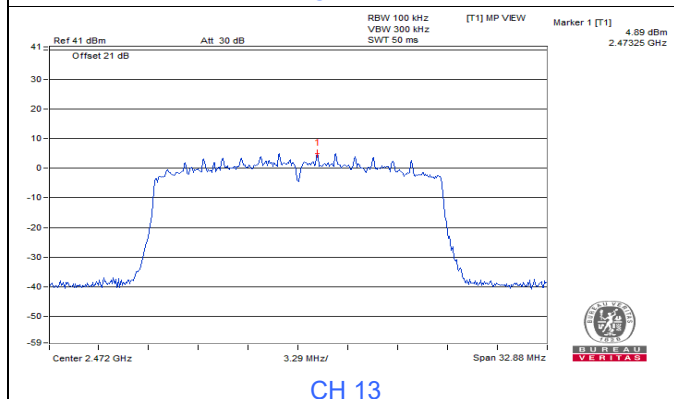
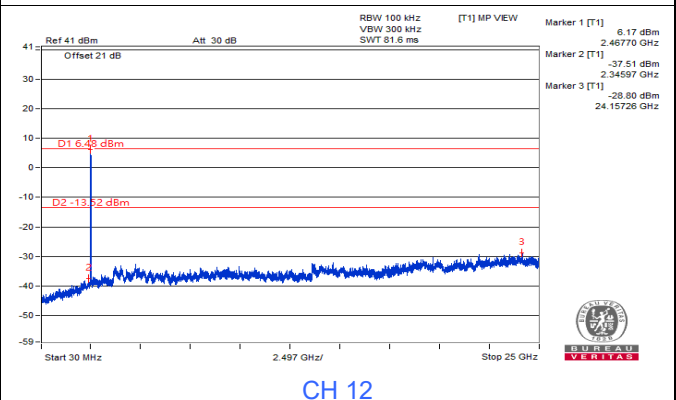
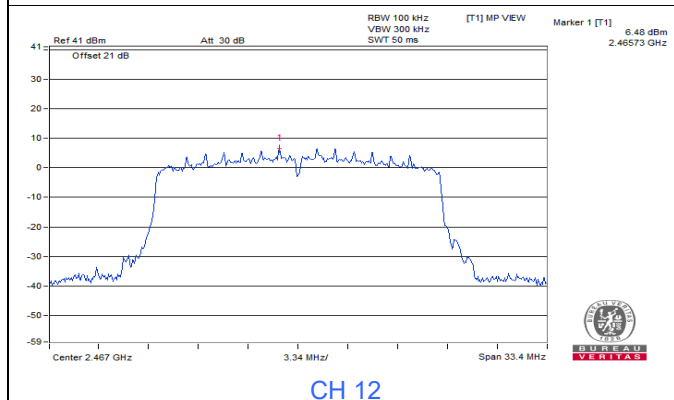
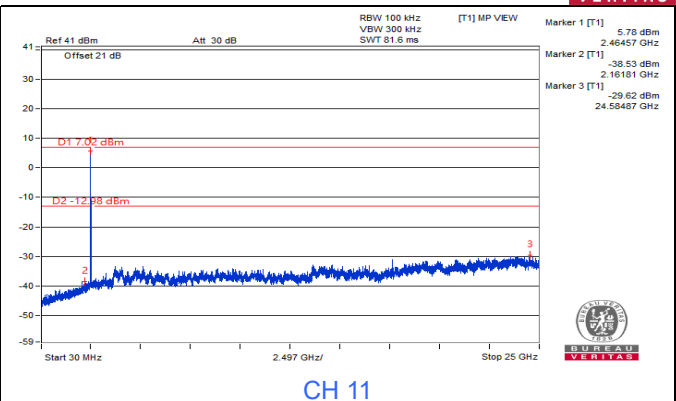
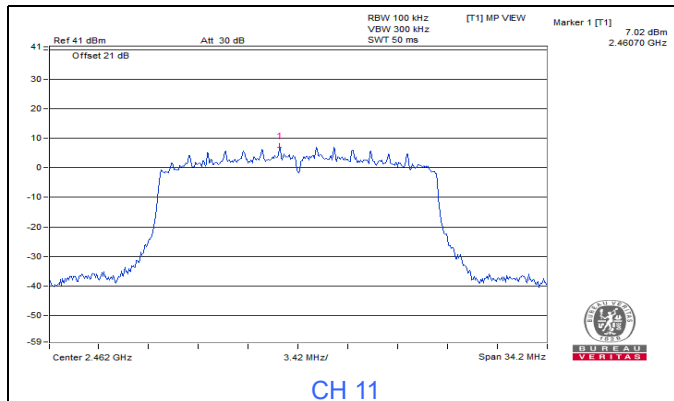


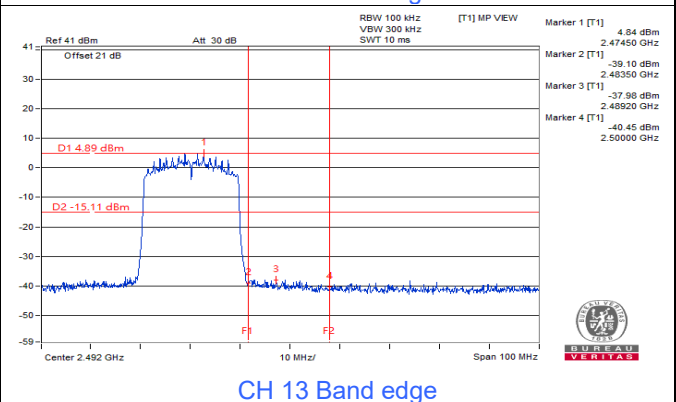
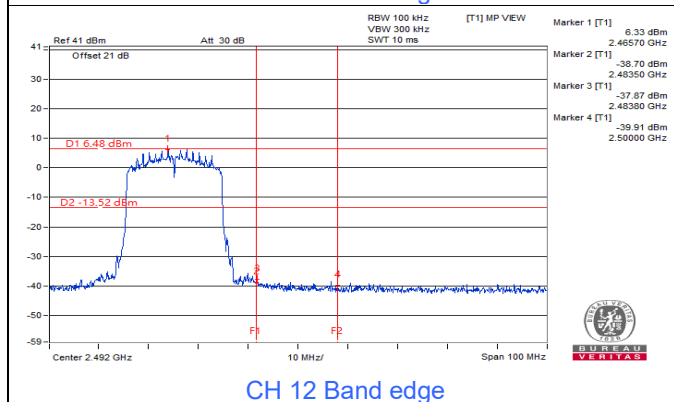
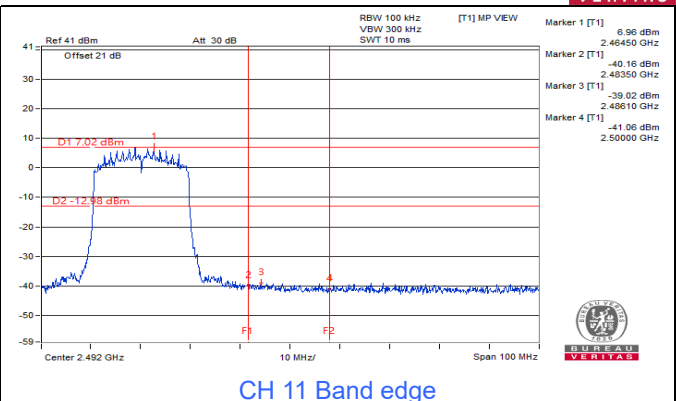
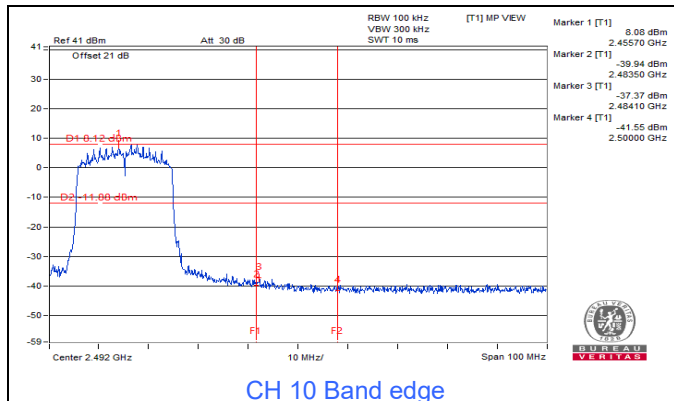
802.11be (EHT20)





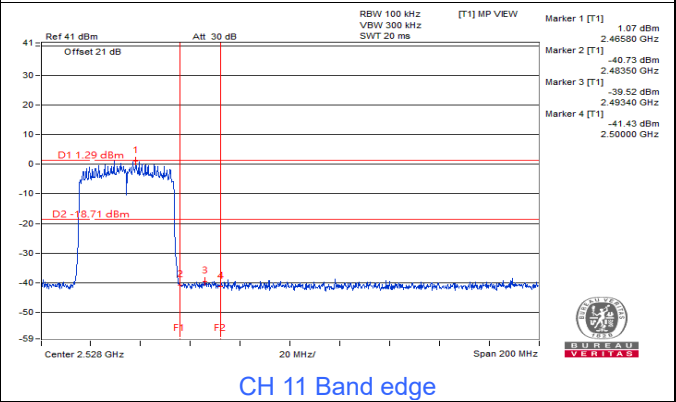
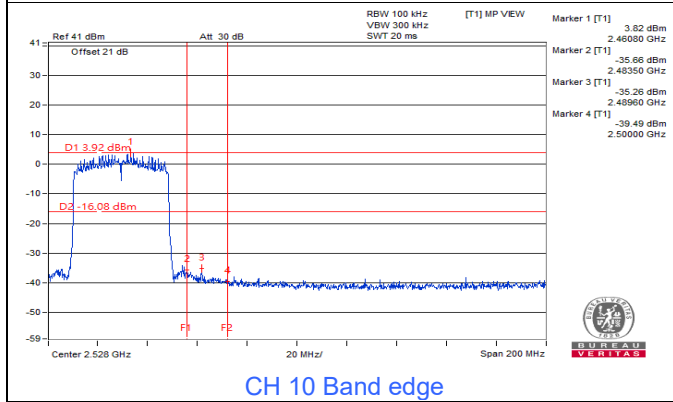
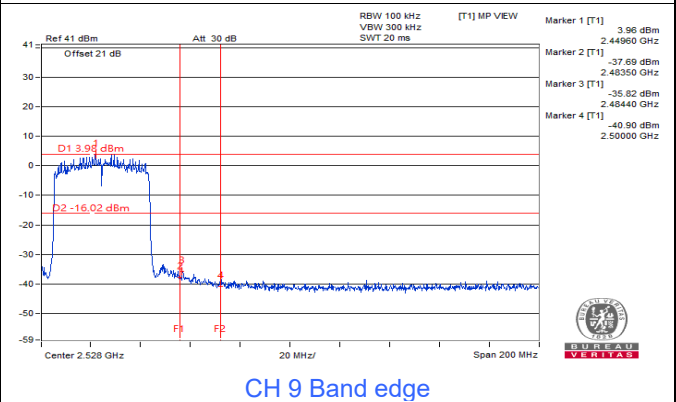
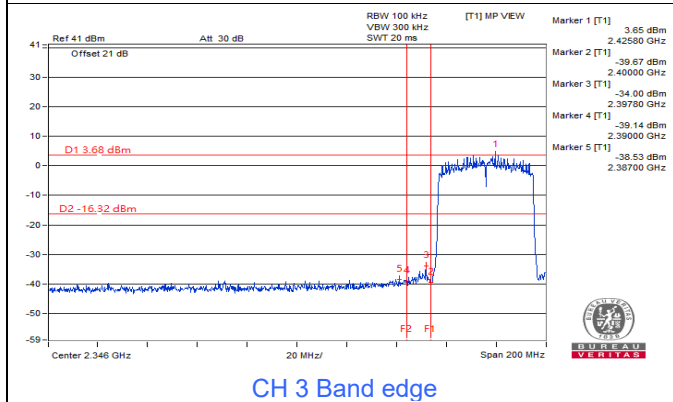
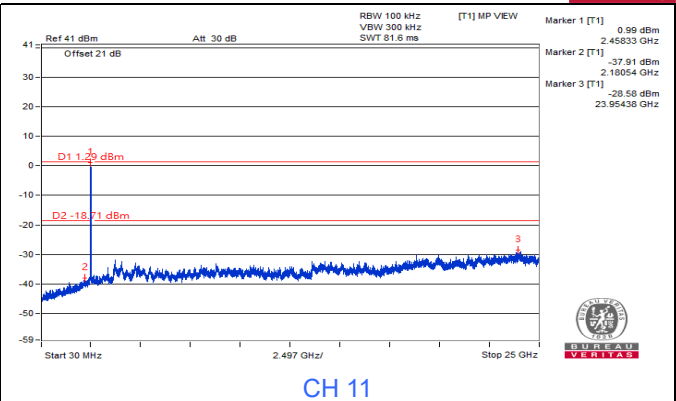
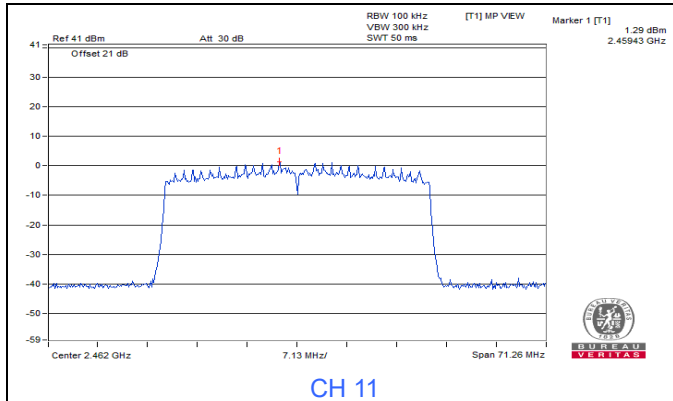
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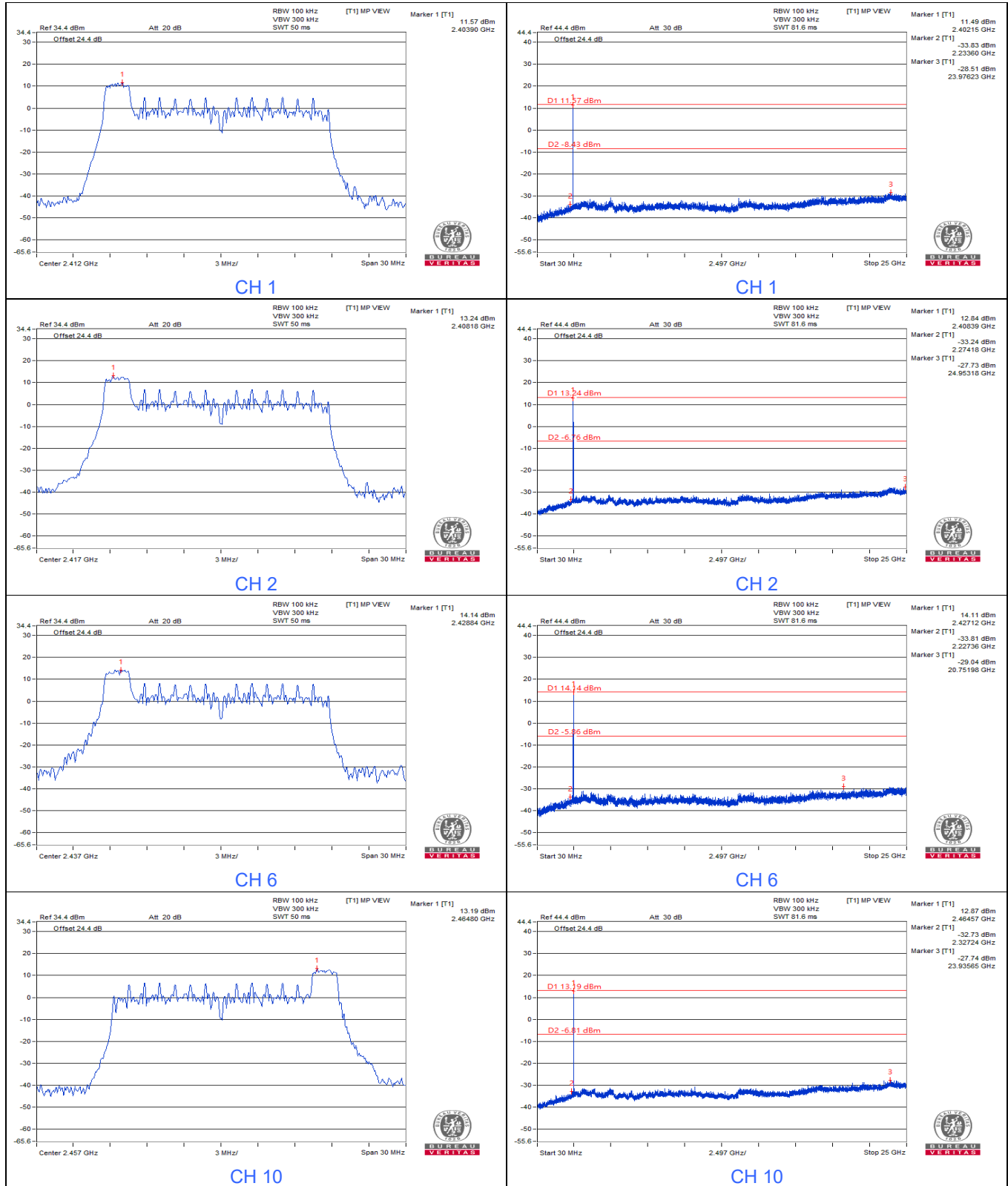


802.11be (EHT40)



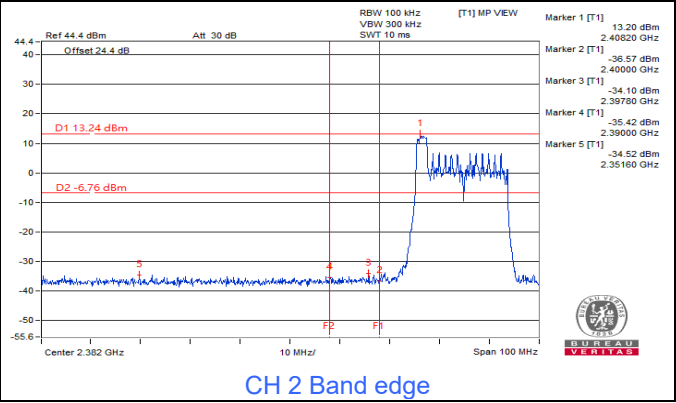
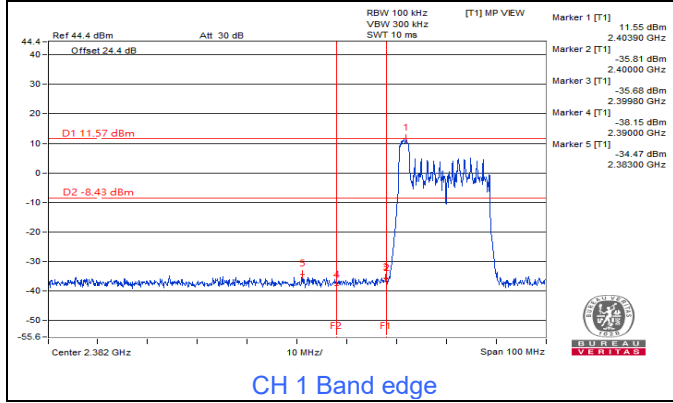
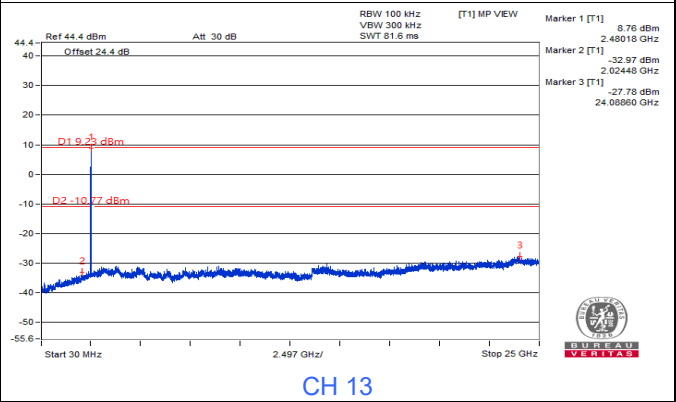
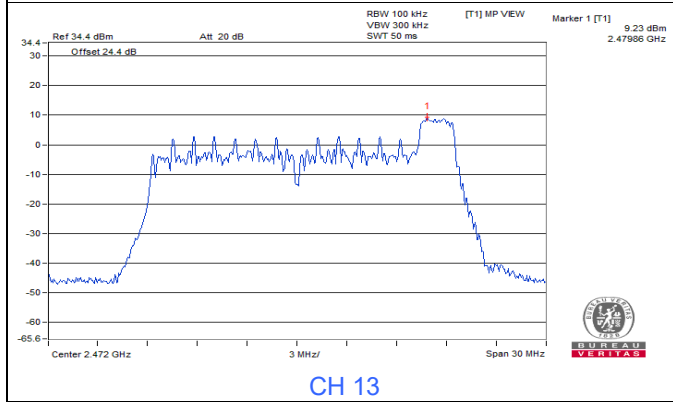
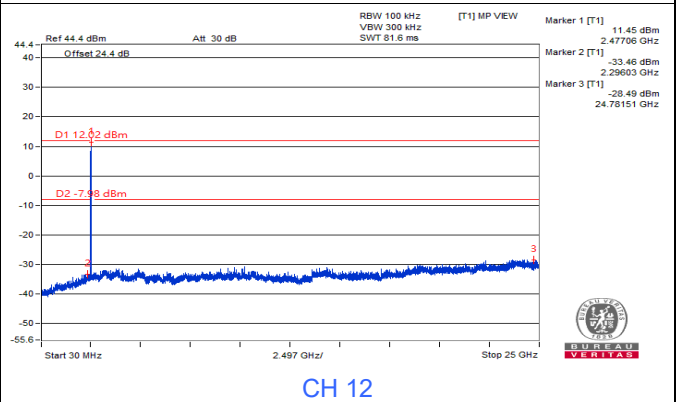
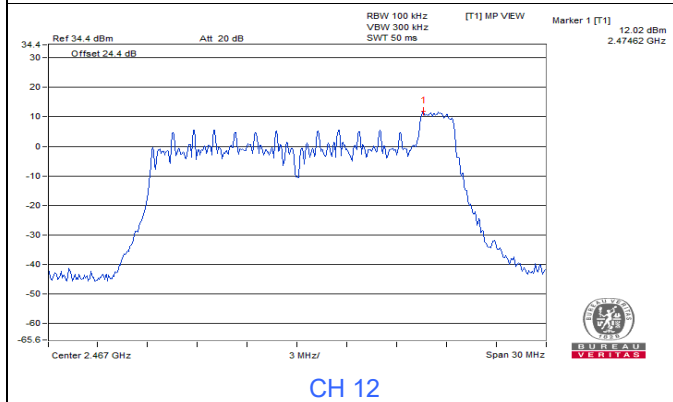
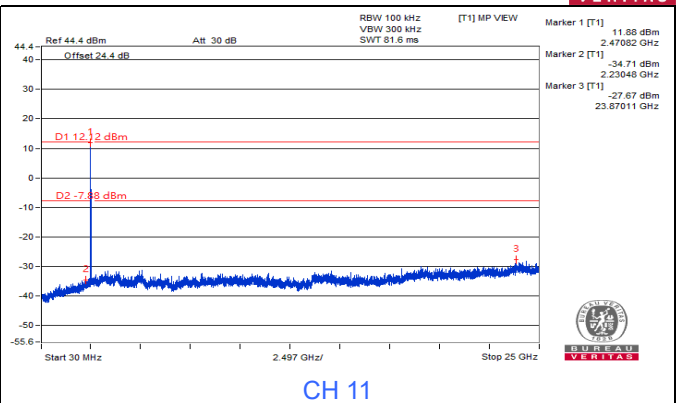
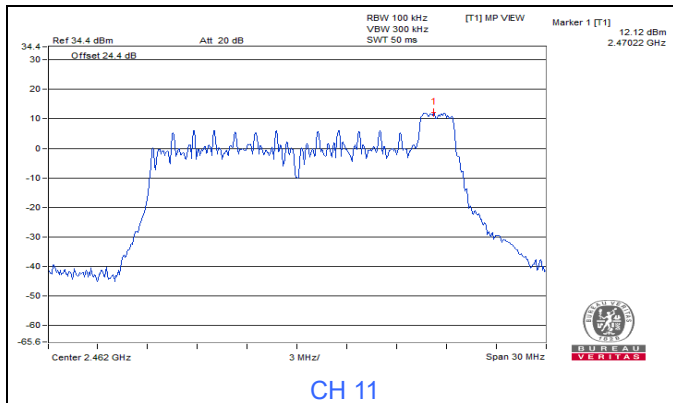


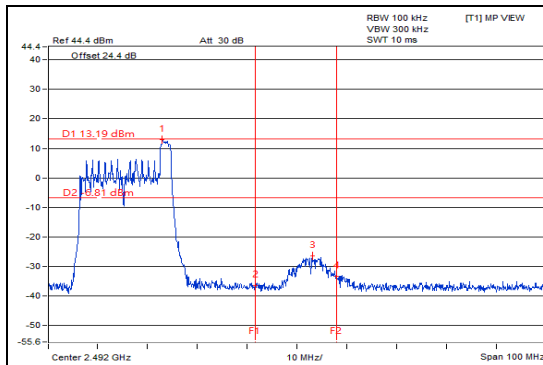
802.11be (EHT20) 26-tone RU



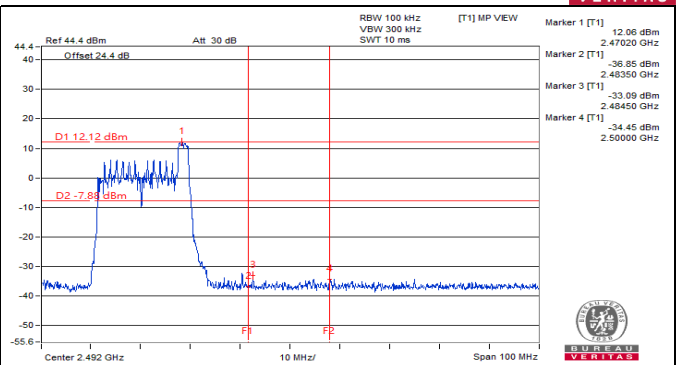


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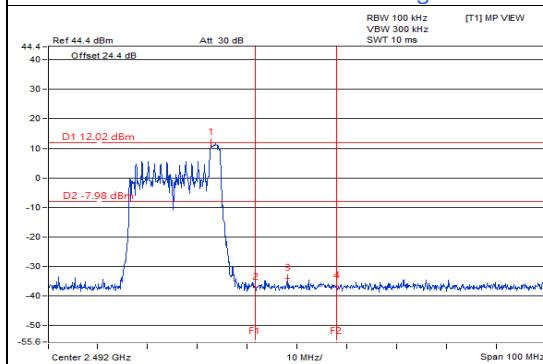




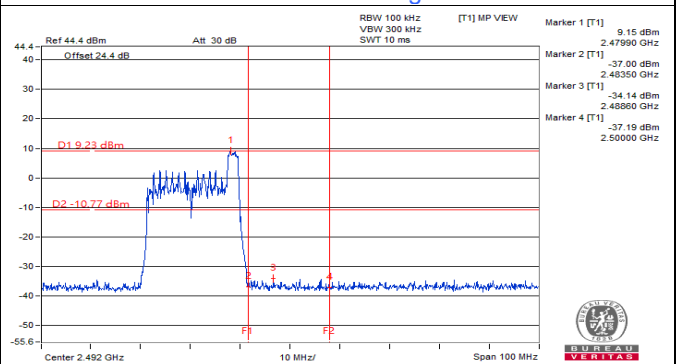
CH 10 Band edge



CH 11 Band edge

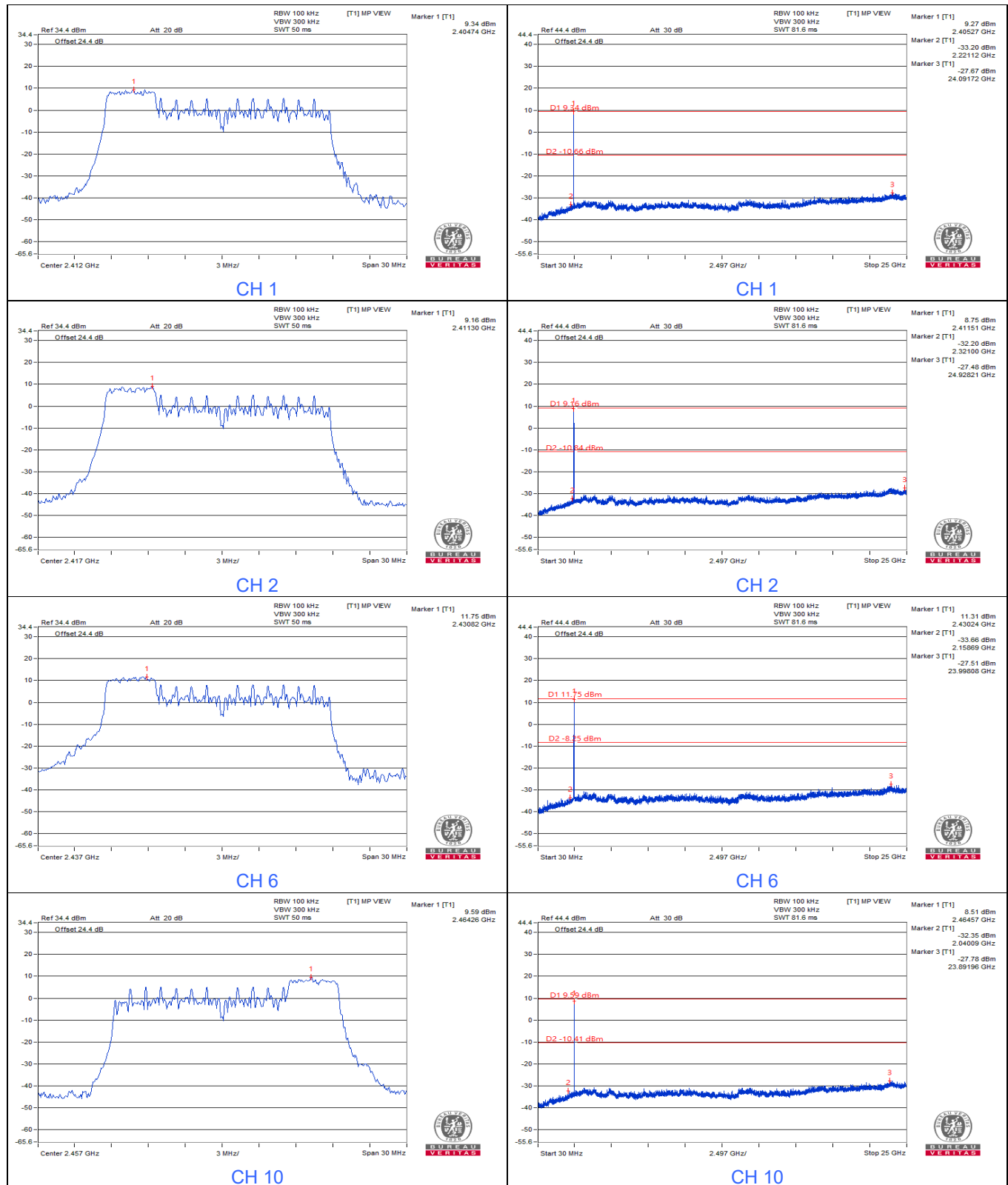


CH 12 Band edge



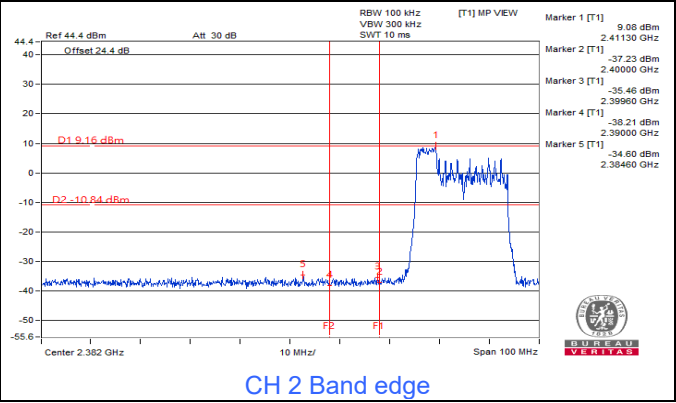
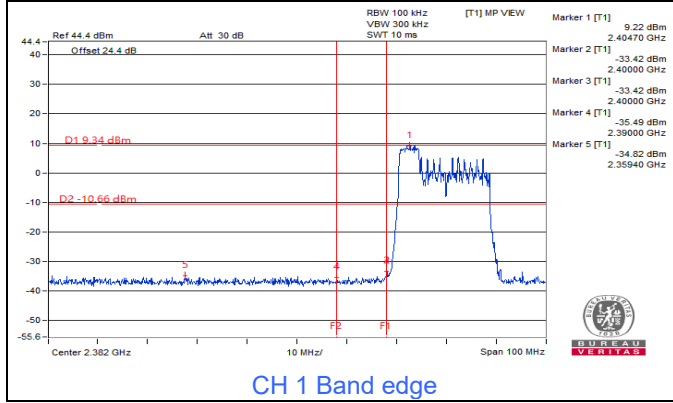
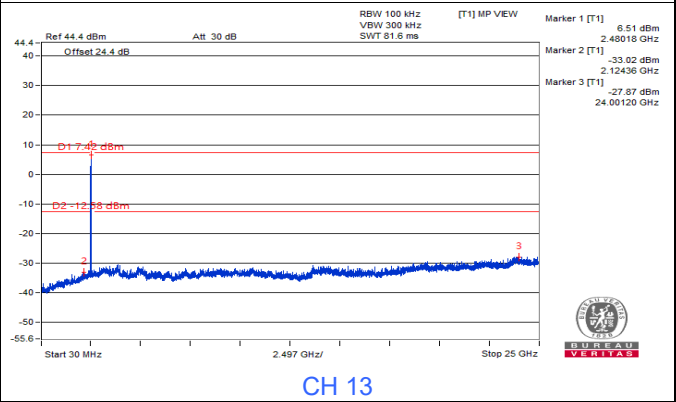
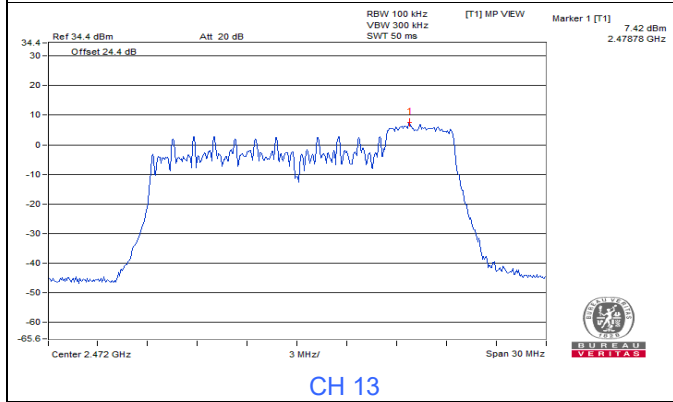
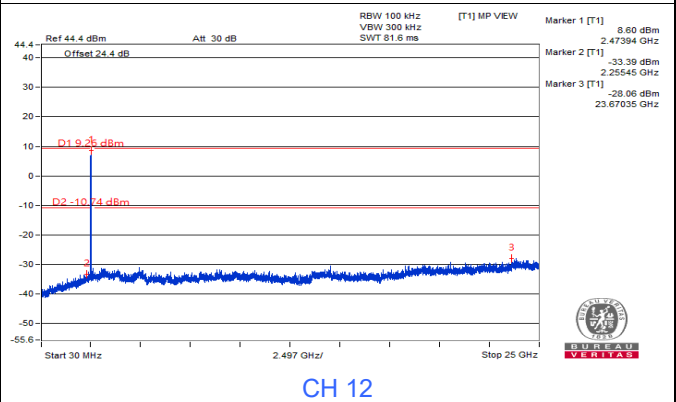
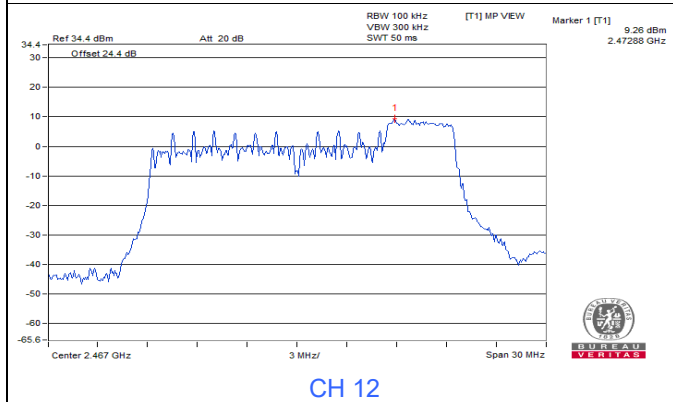
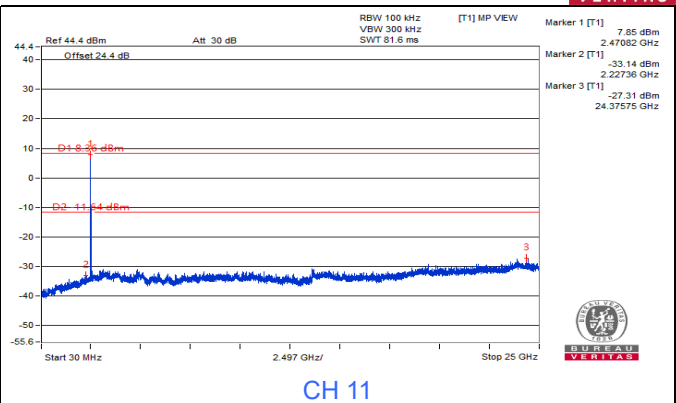
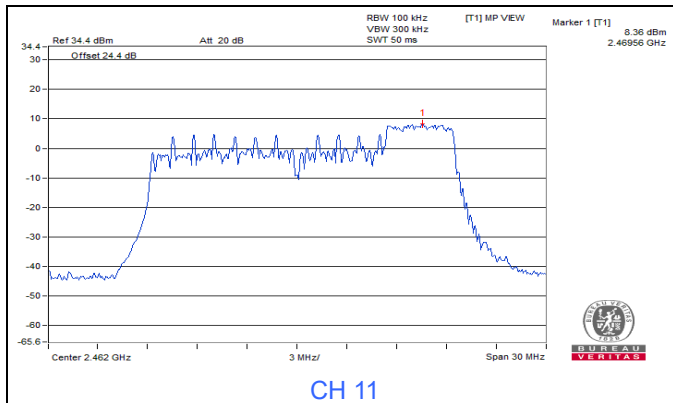
CH 13 Band edge

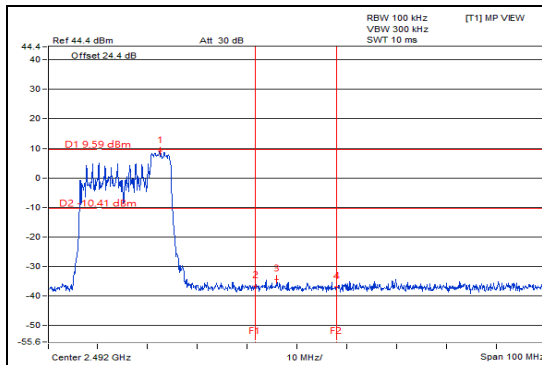
802.11be (EHT20) 52-tone RU



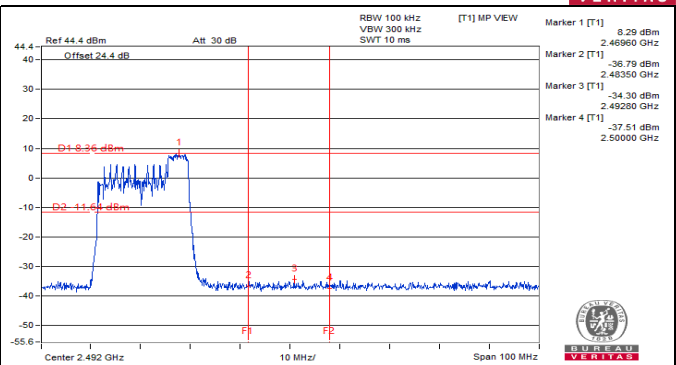


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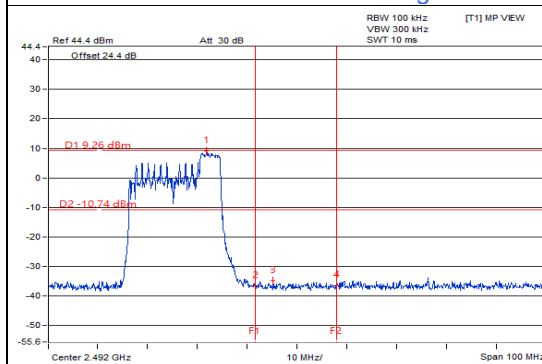




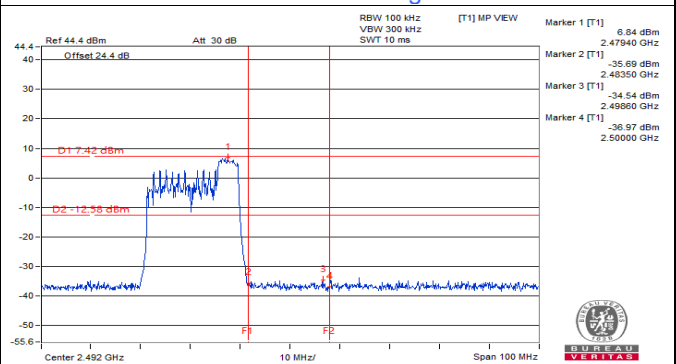
CH 10 Band edge



CH 11 Band edge

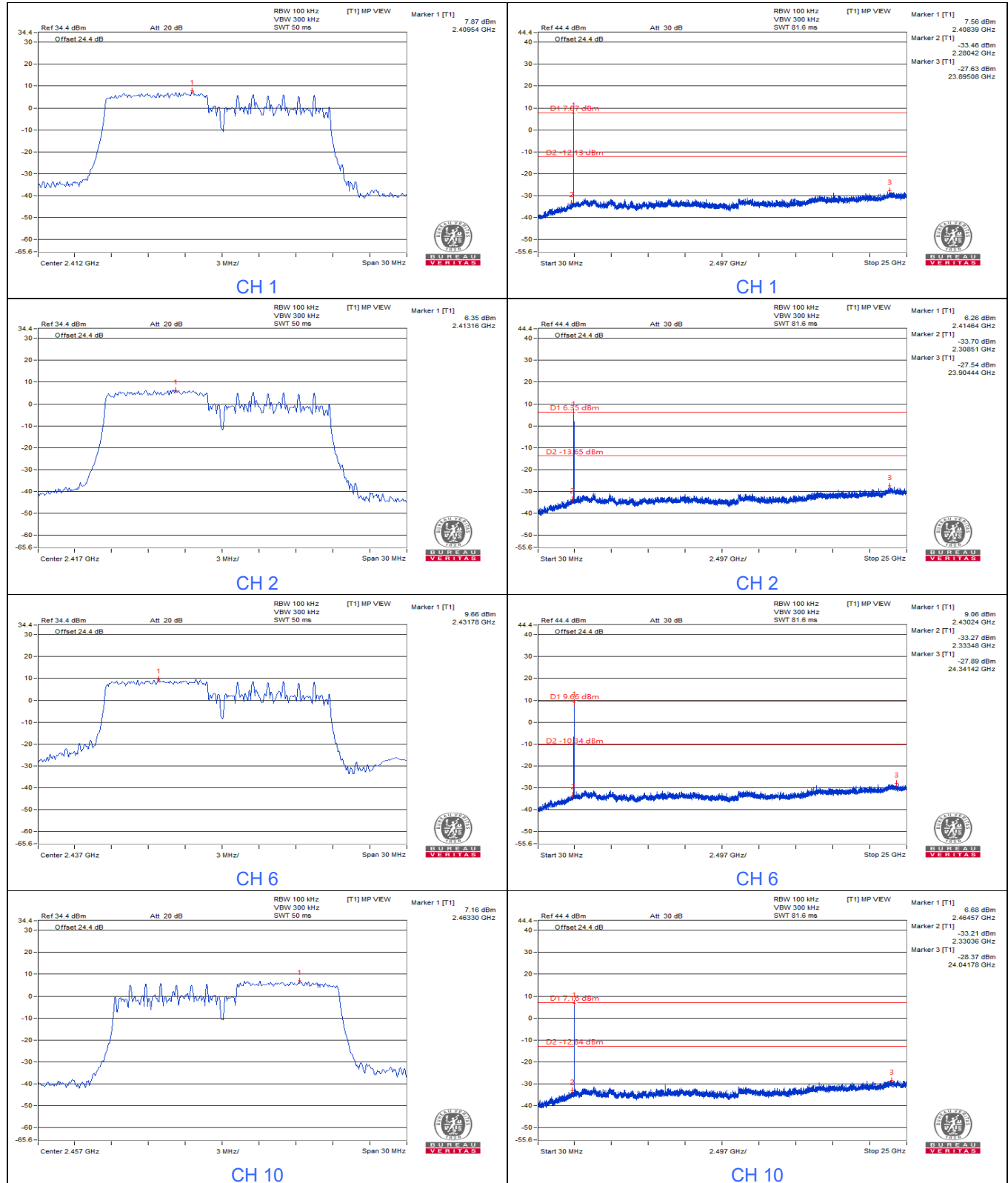


CH 12 Band edge



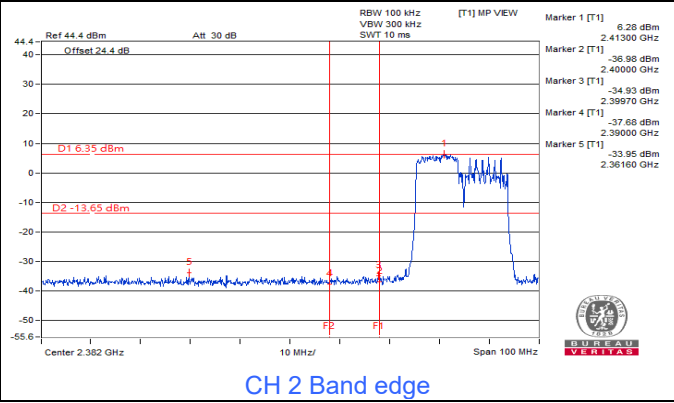
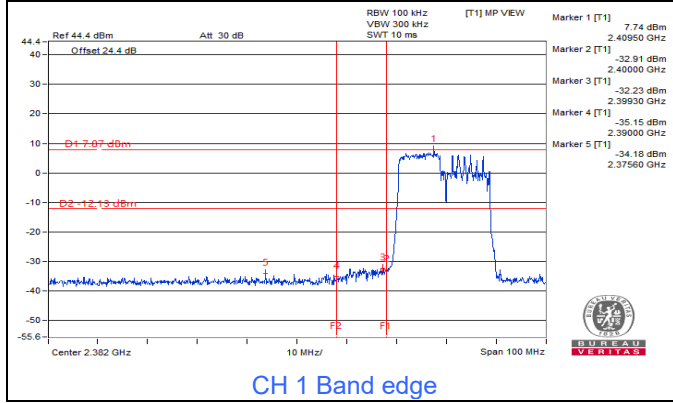
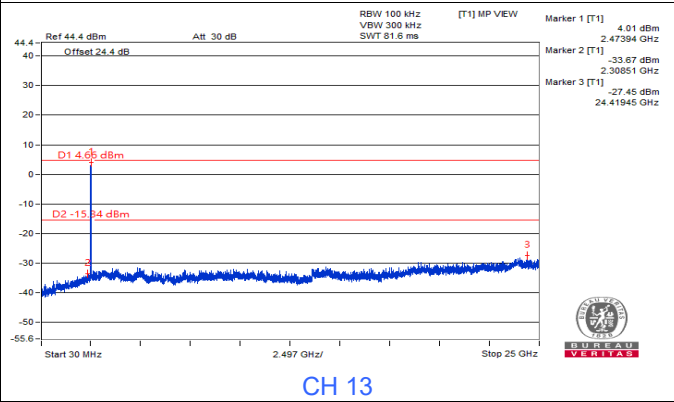
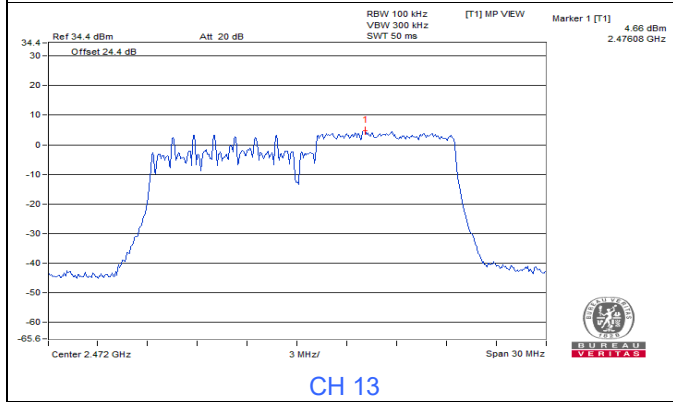
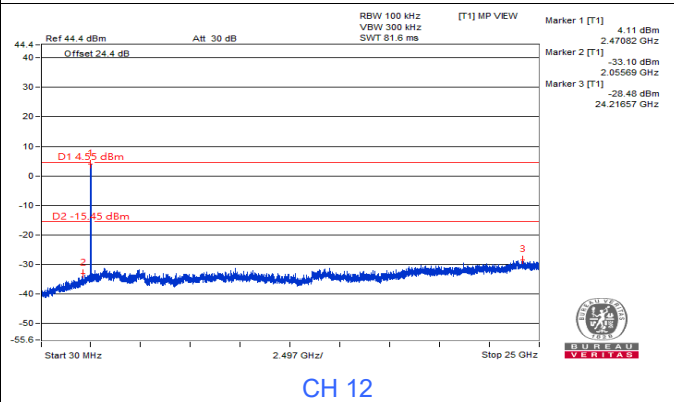
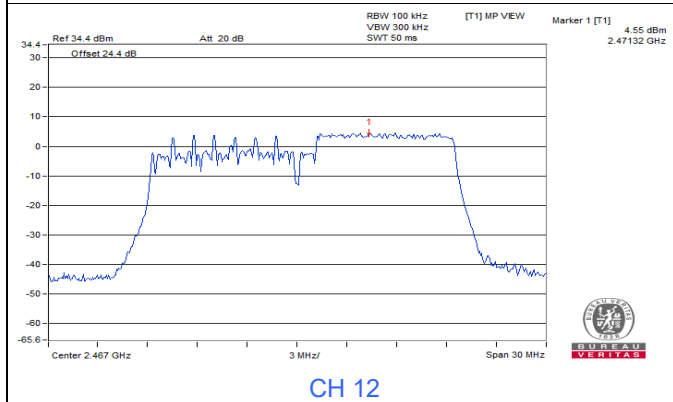
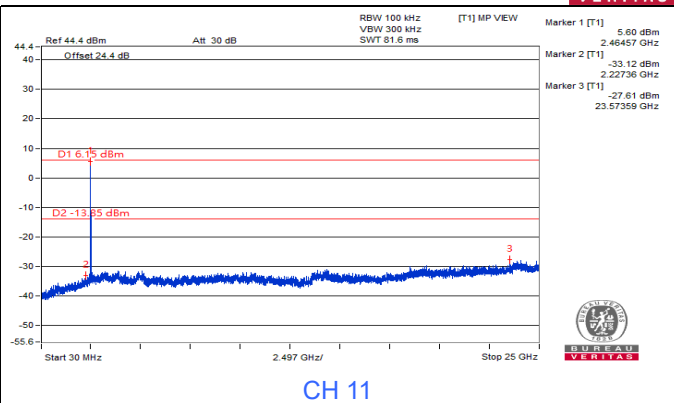
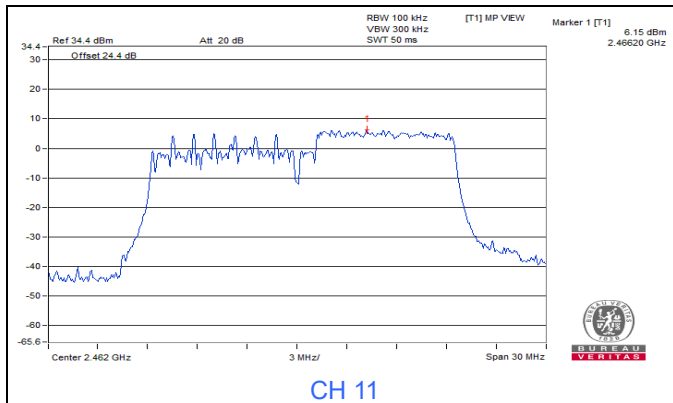
CH 13 Band edge

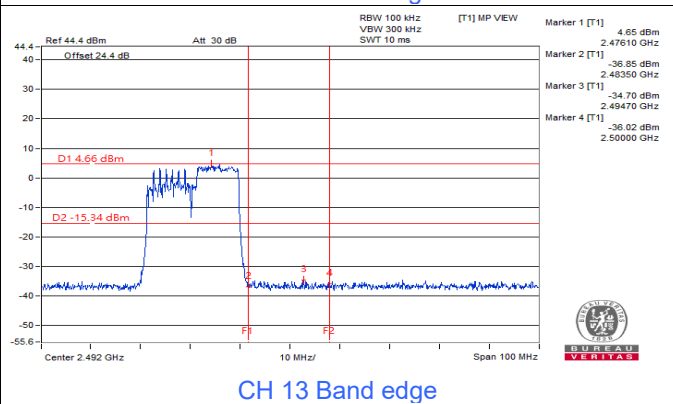
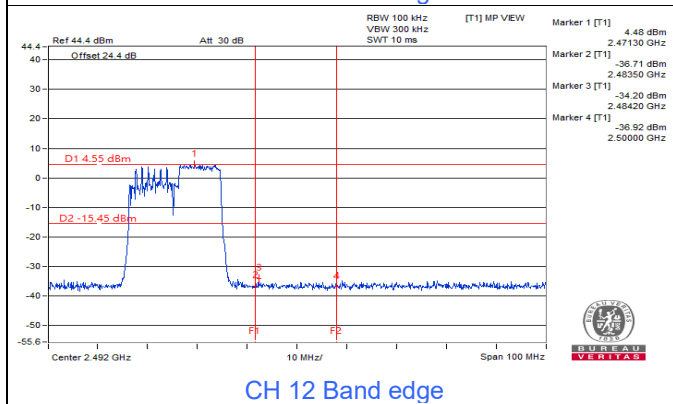
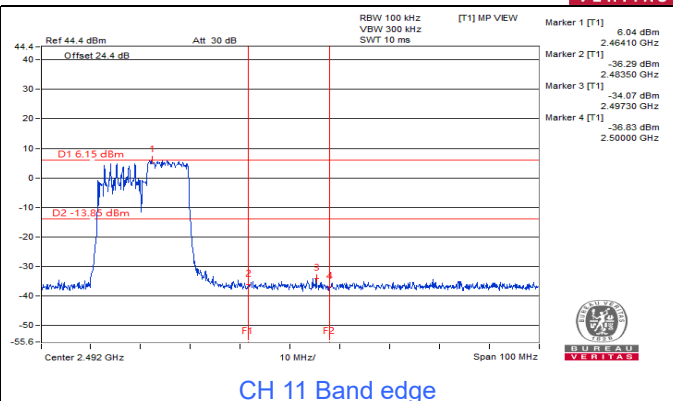
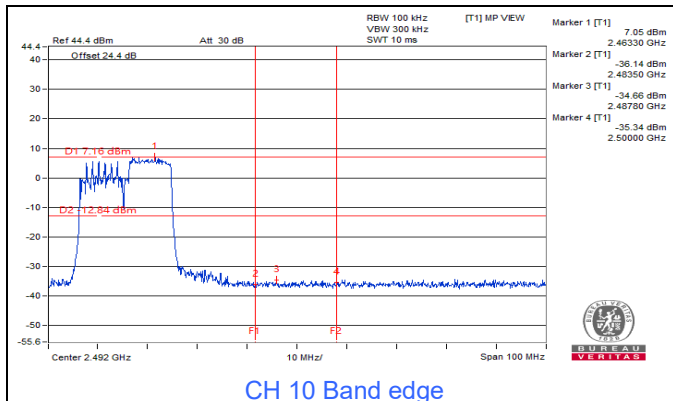
802.11be (EHT20) 106-tone RU



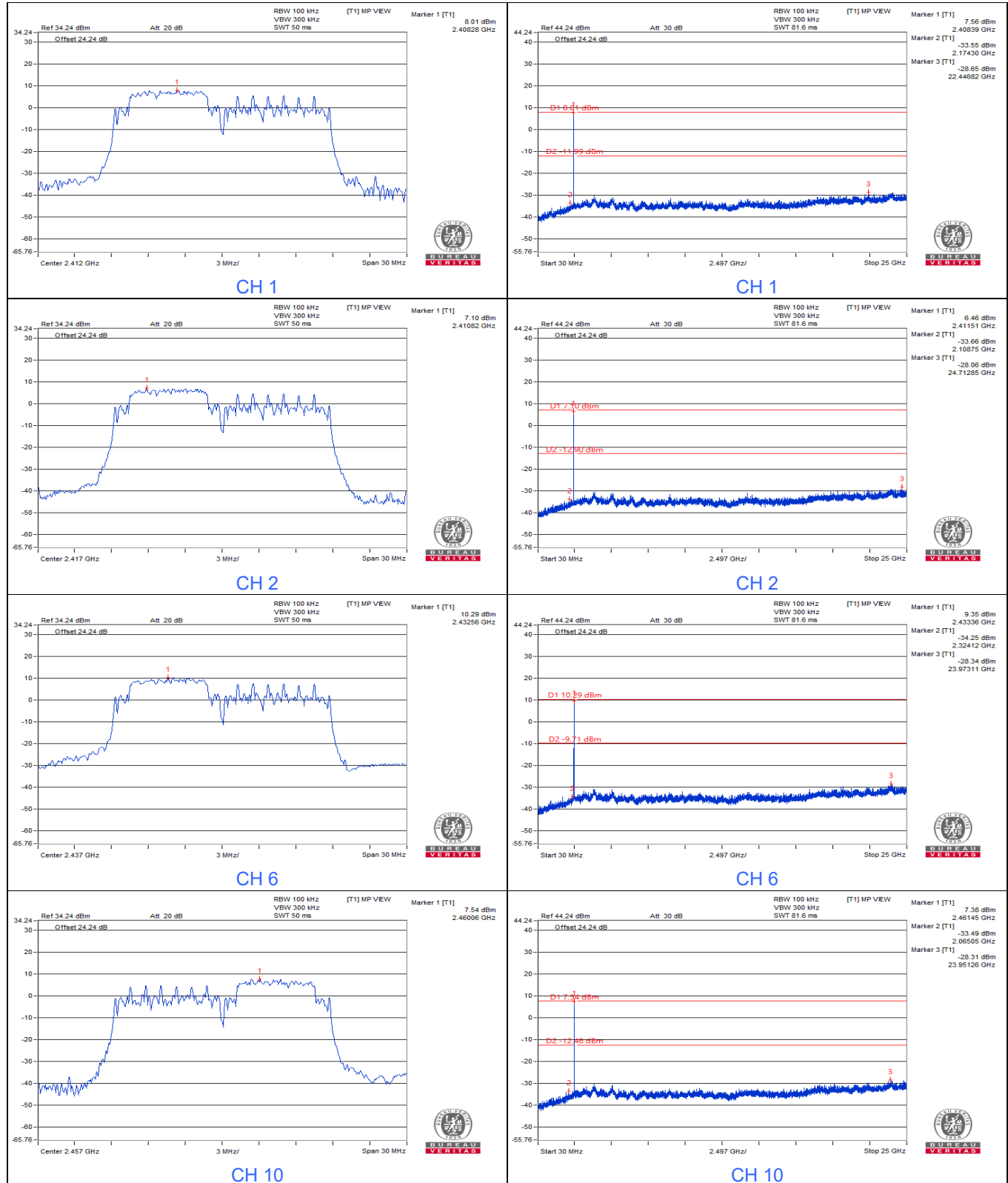


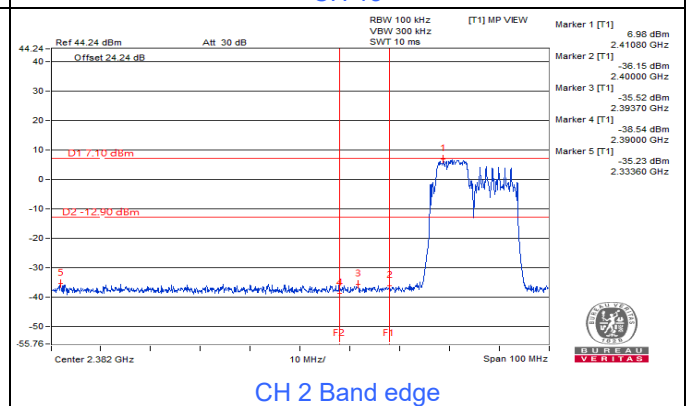
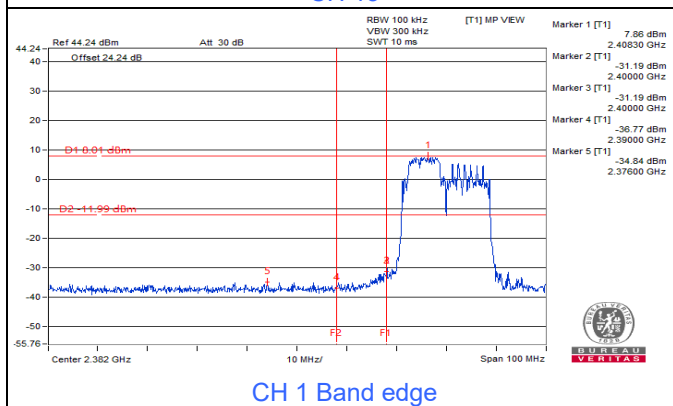
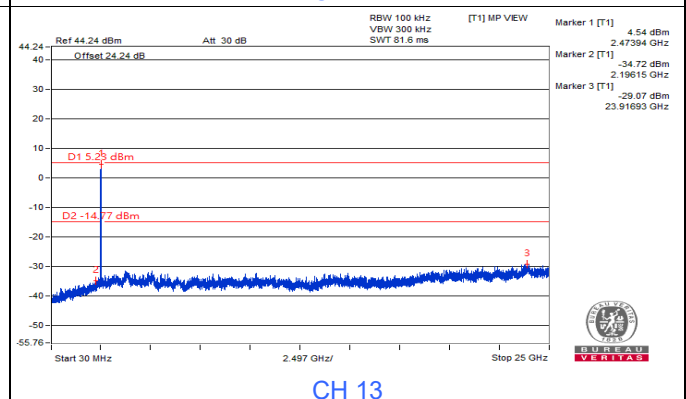
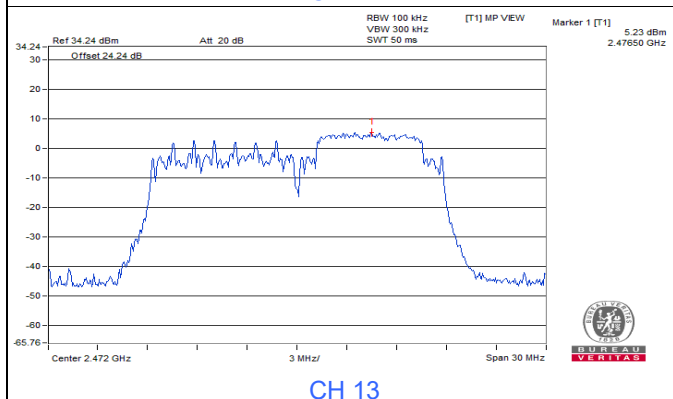
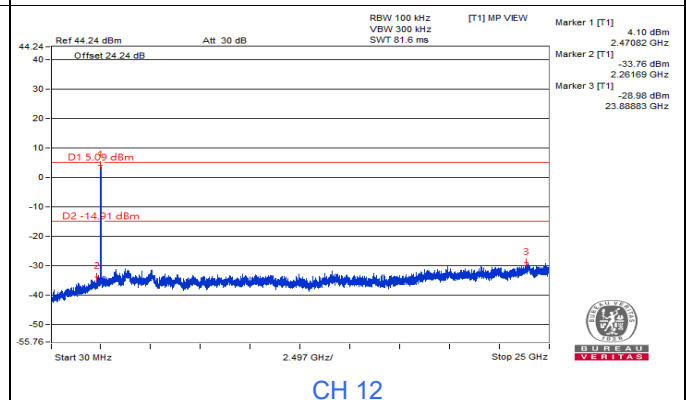
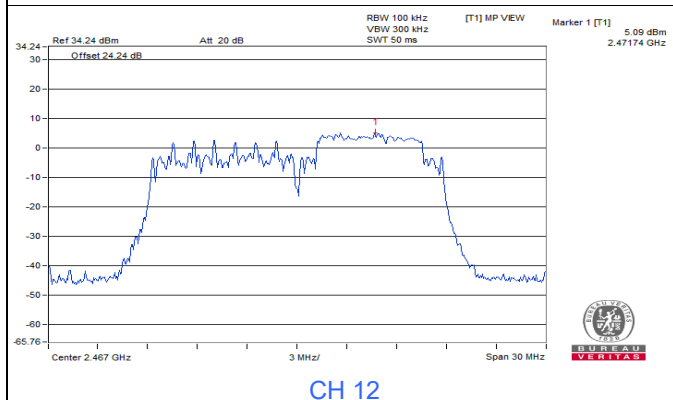
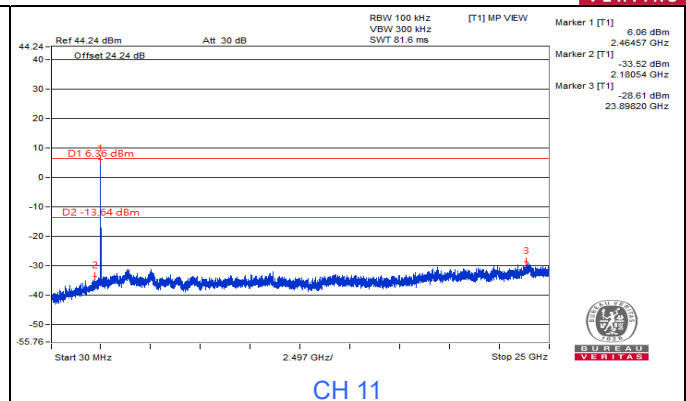
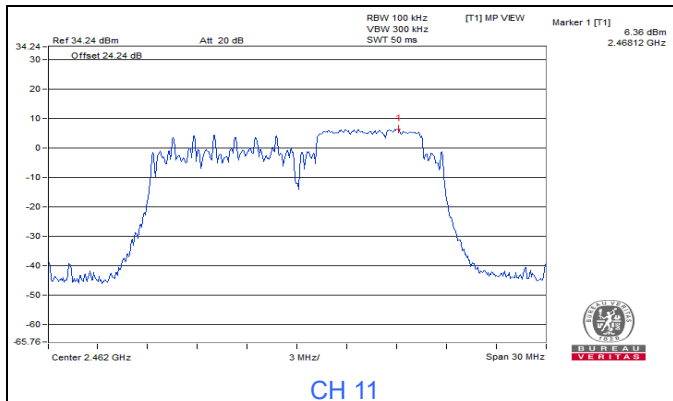
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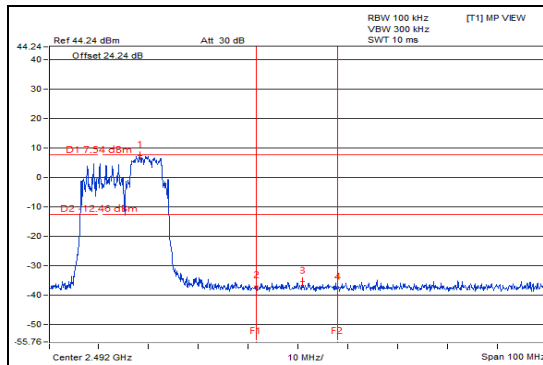




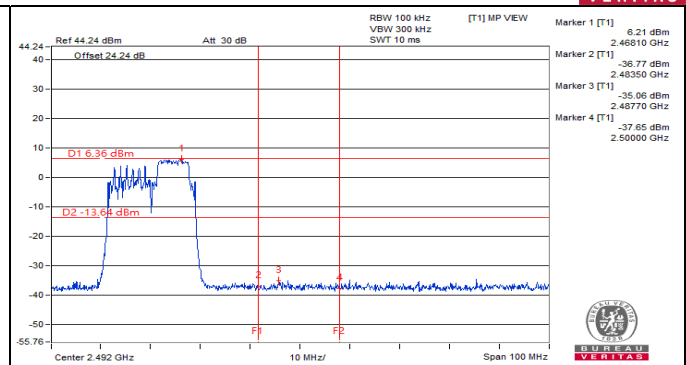
802.11be (EHT20) 52+26-tone MRU



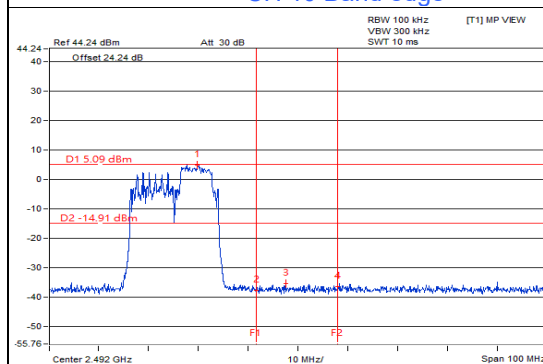




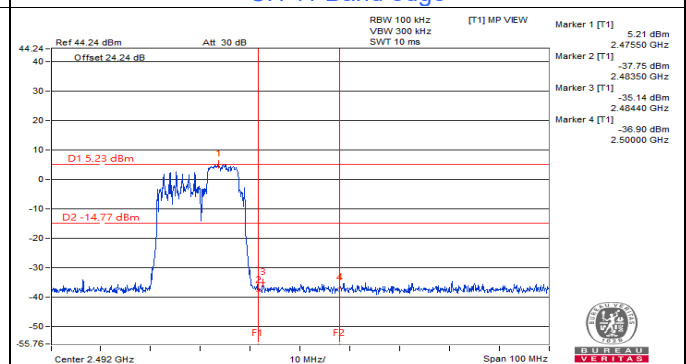
CH 10 Band edge



CH 11 Band edge

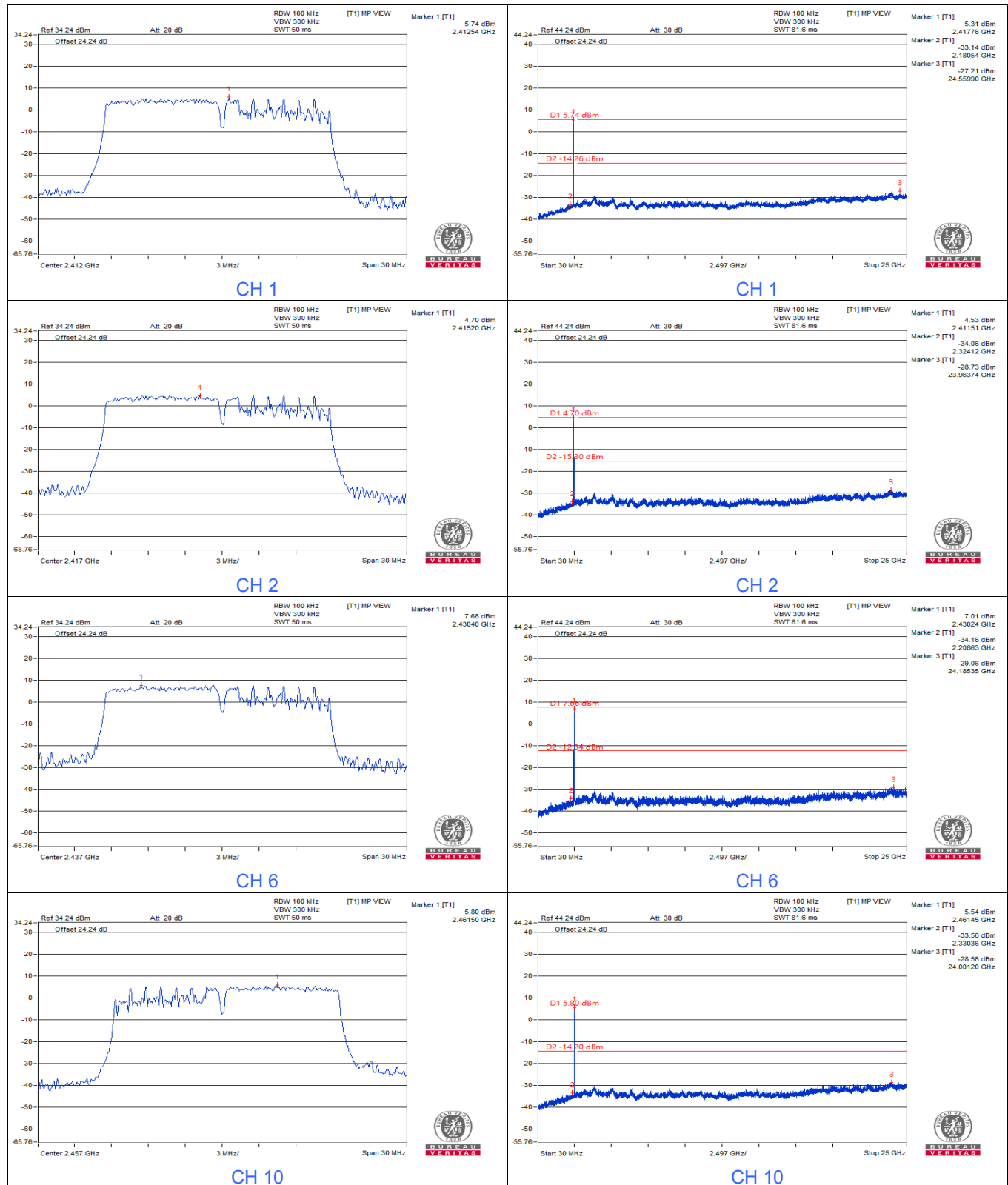


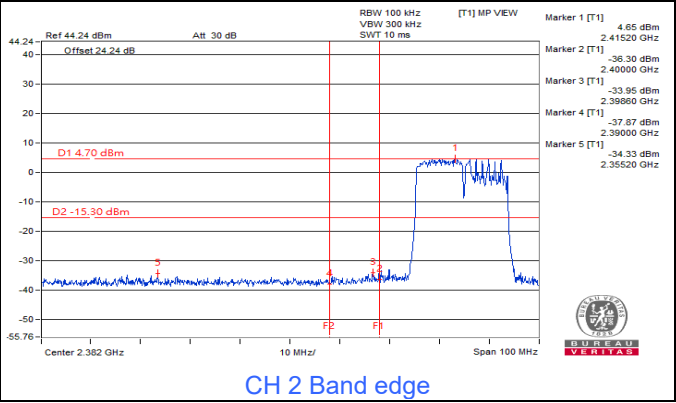
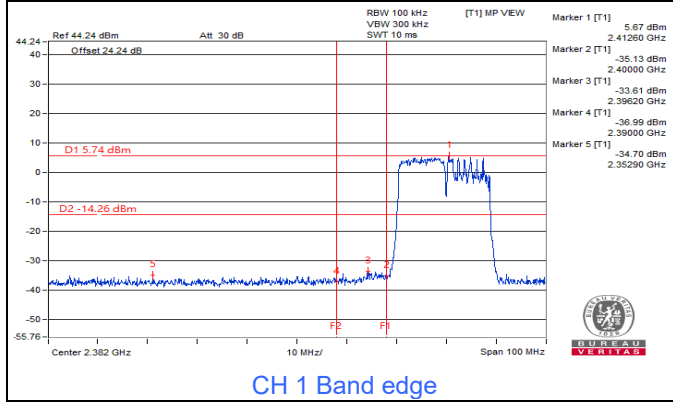
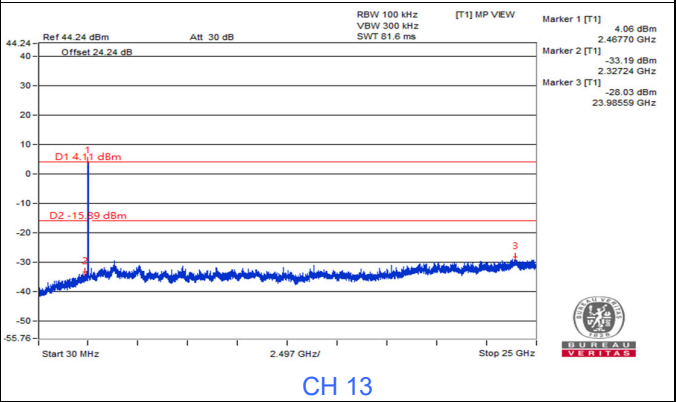
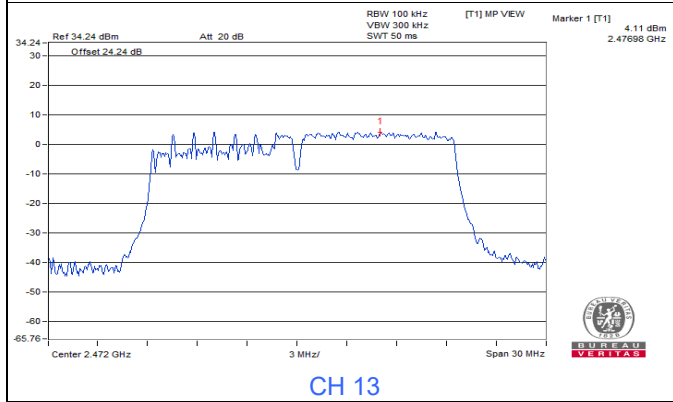
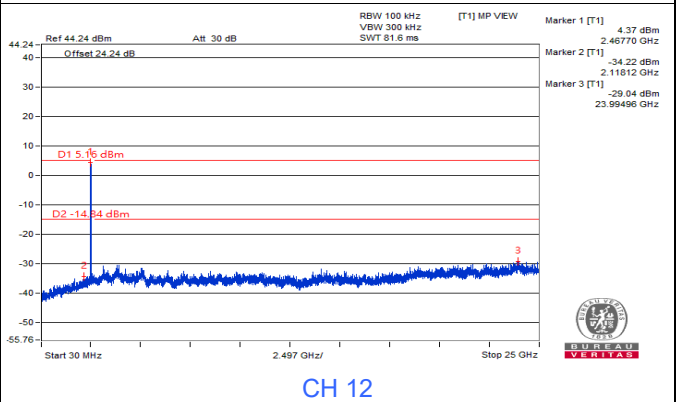
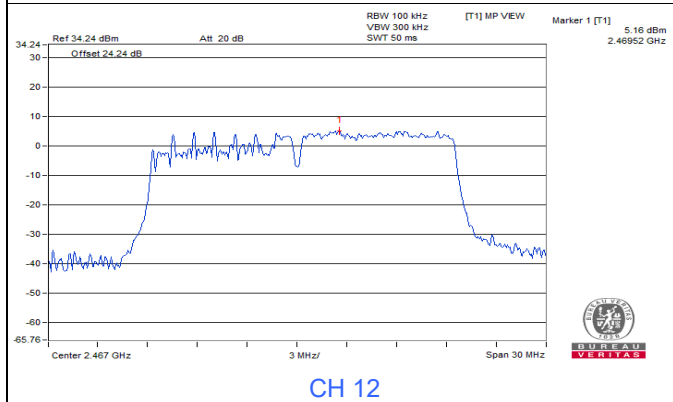
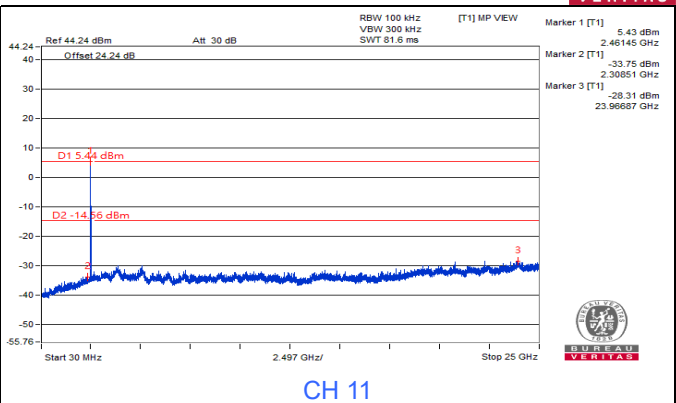
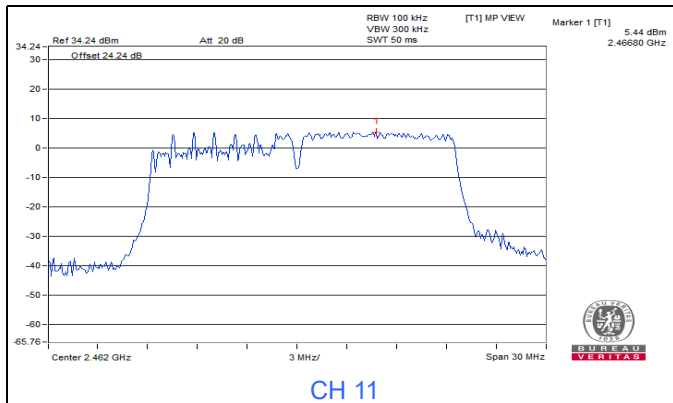
CH 12 Band edge

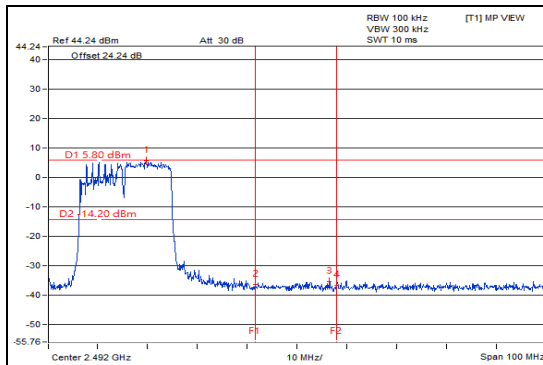


CH 13 Band edge

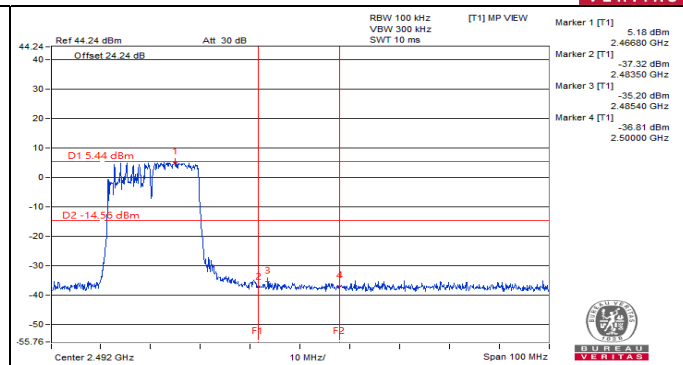
802.11be (EHT20) 106+26-tone MRU



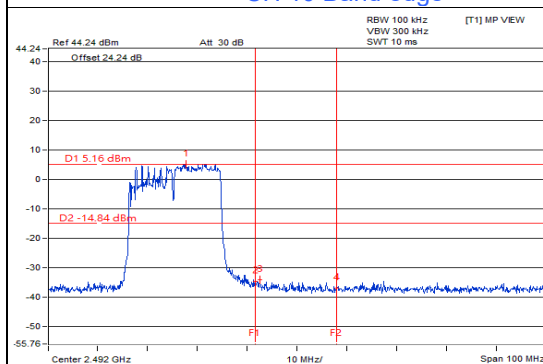




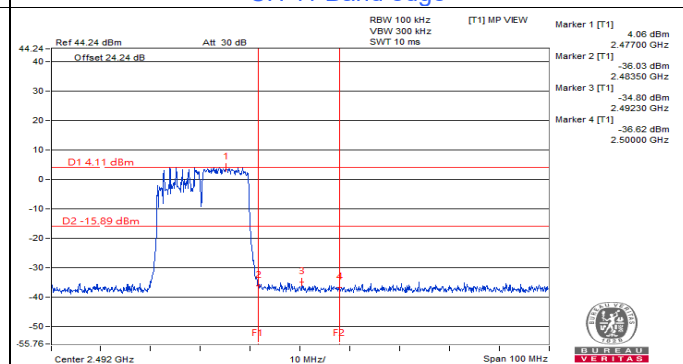
CH 10 Band edge



CH 11 Band edge



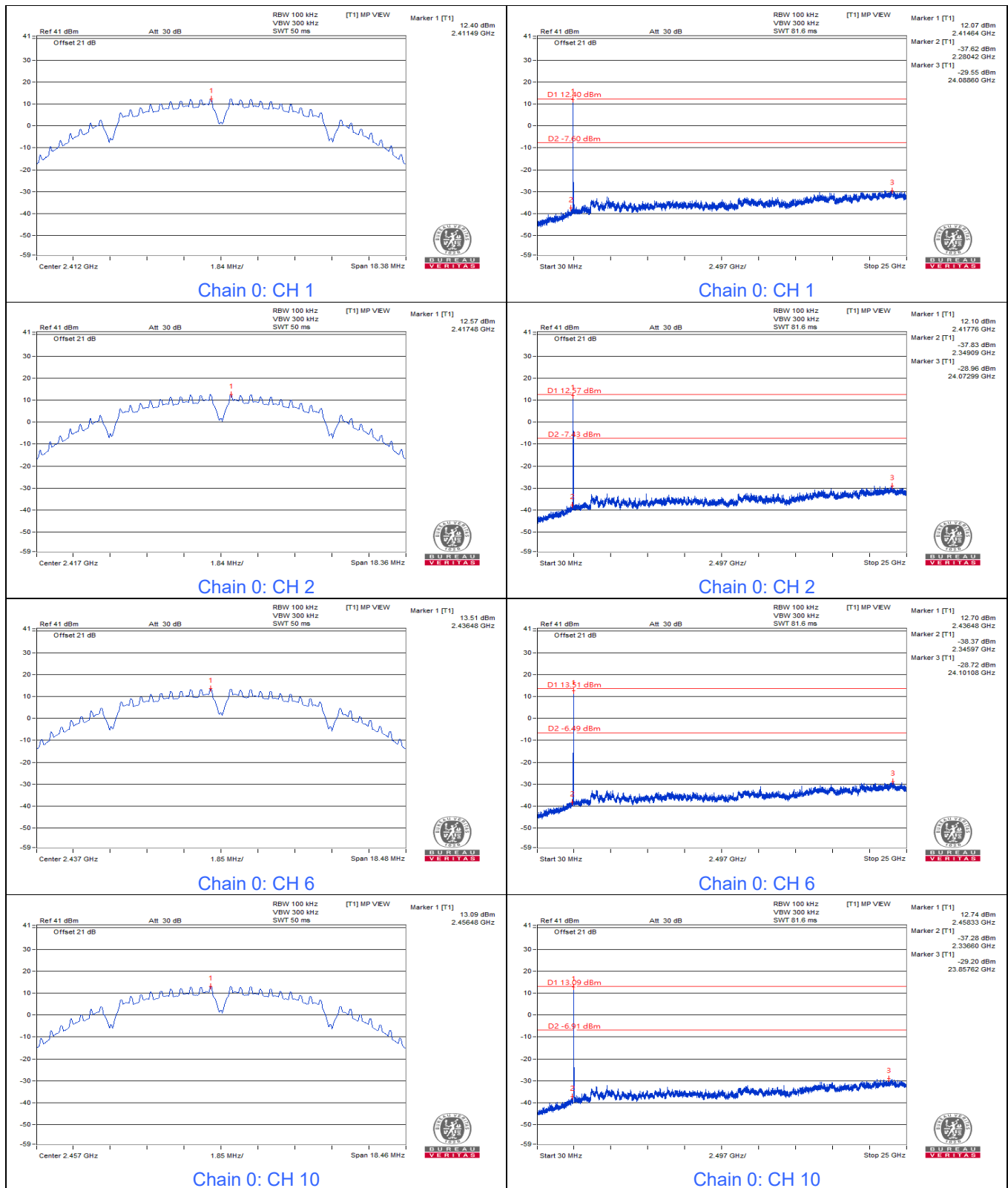
CH 12 Band edge



CH 13 Band edge

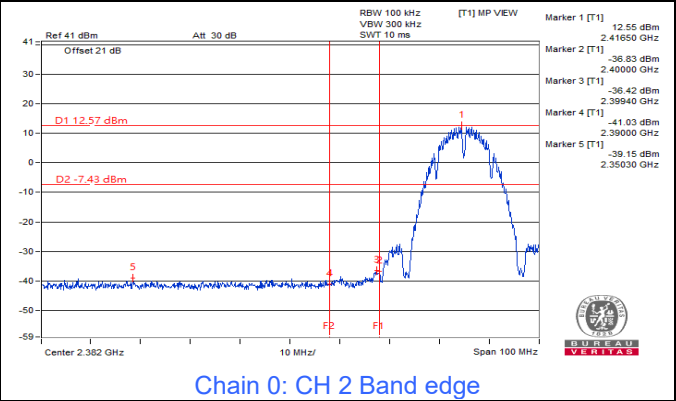
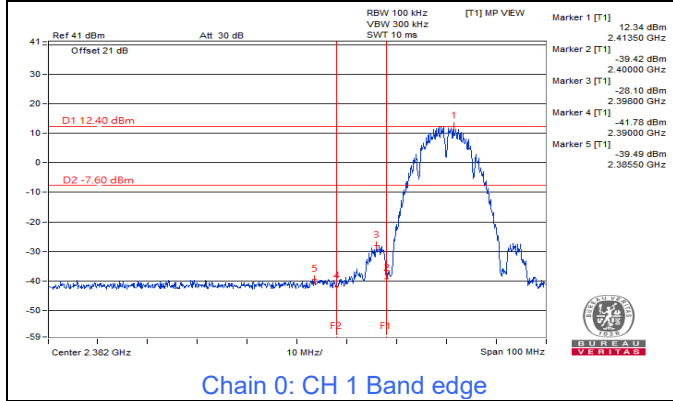
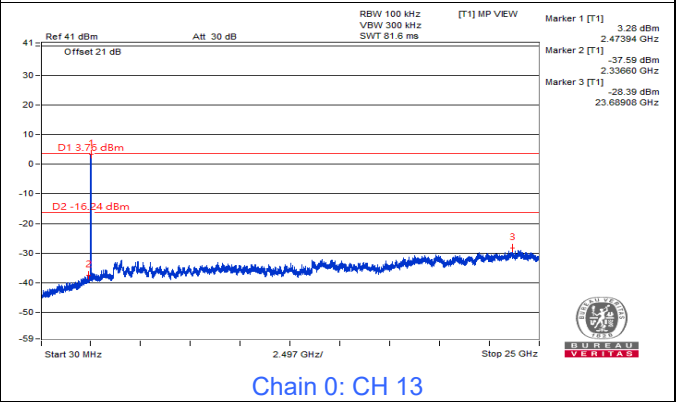
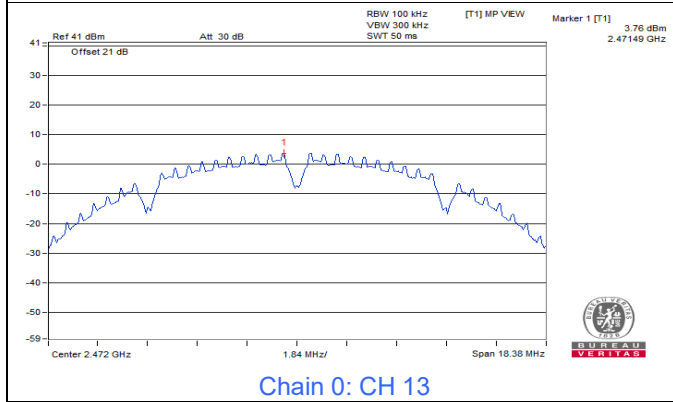
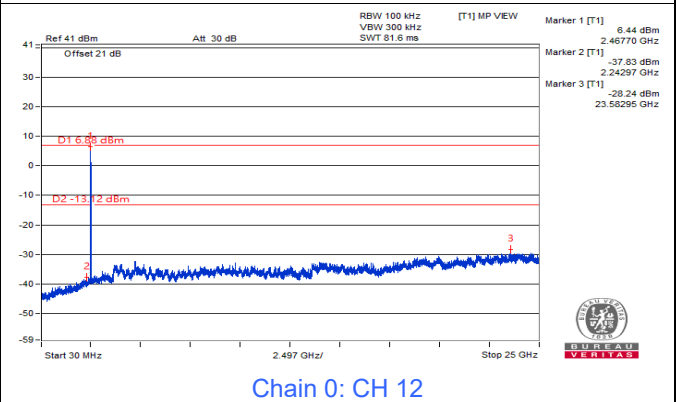
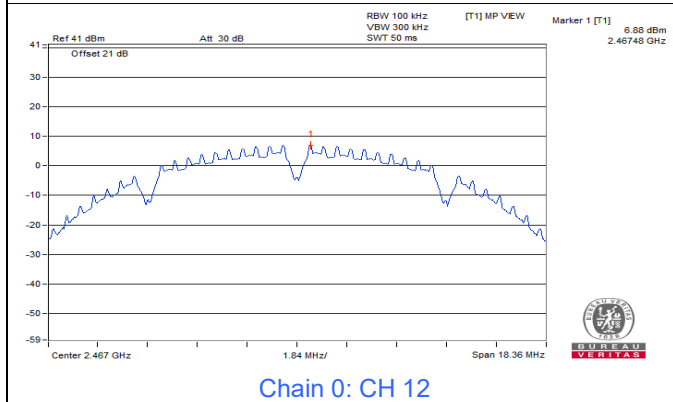
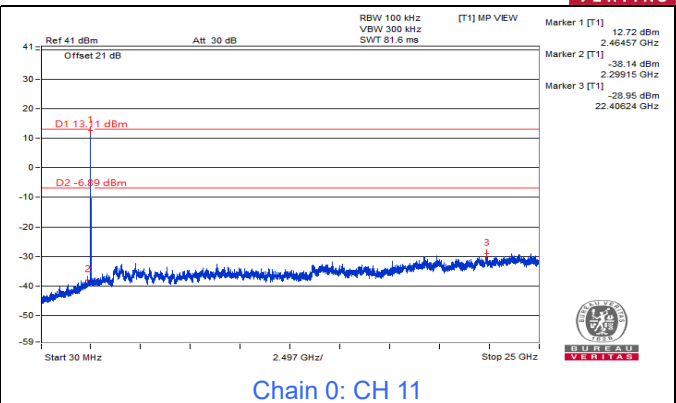
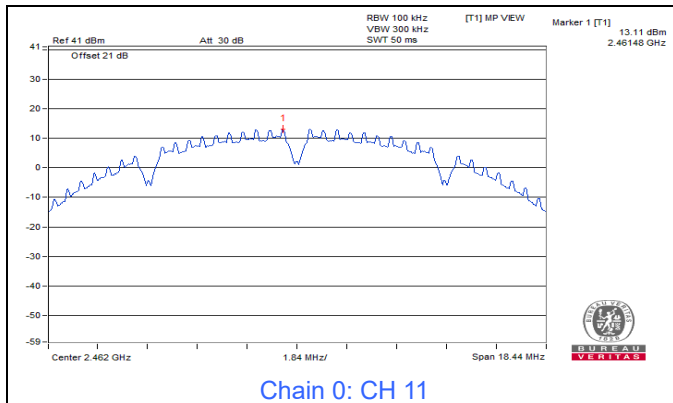
Input Power:	3.3 Vdc	Environmental Conditions:	27°C, 62% RH	Tested By:	Kevin Ko
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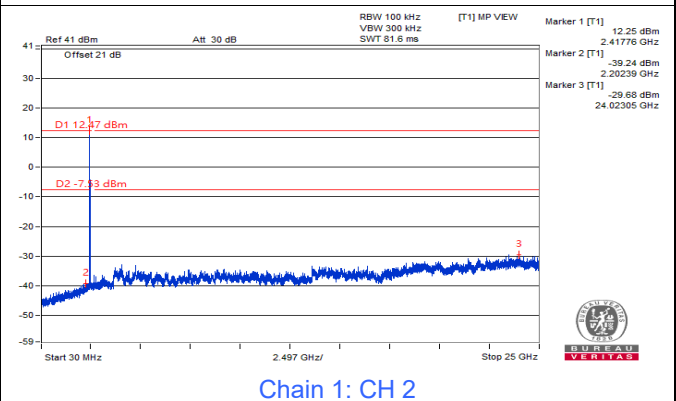
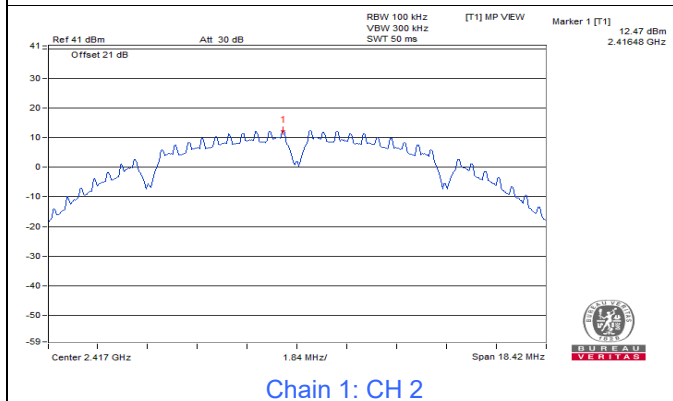
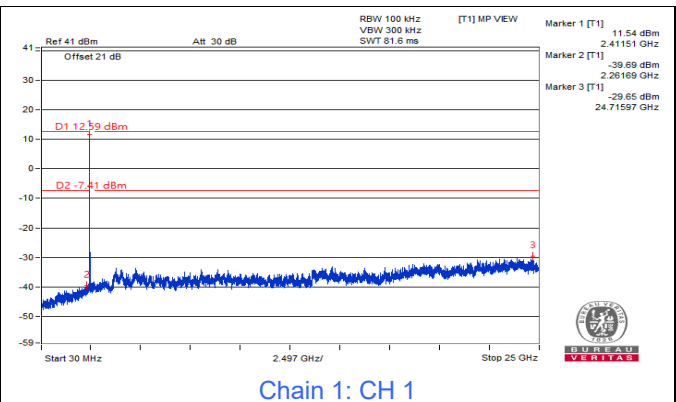
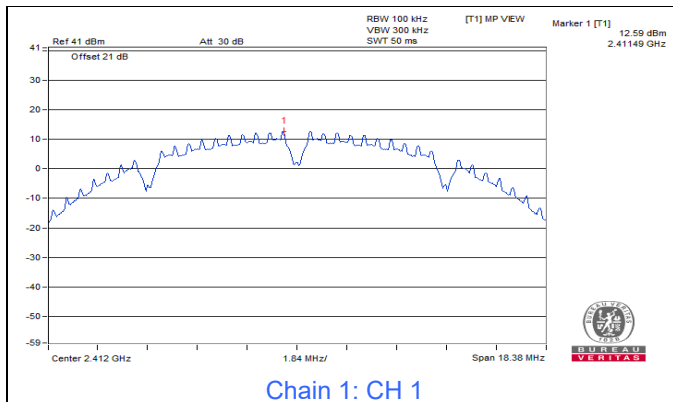
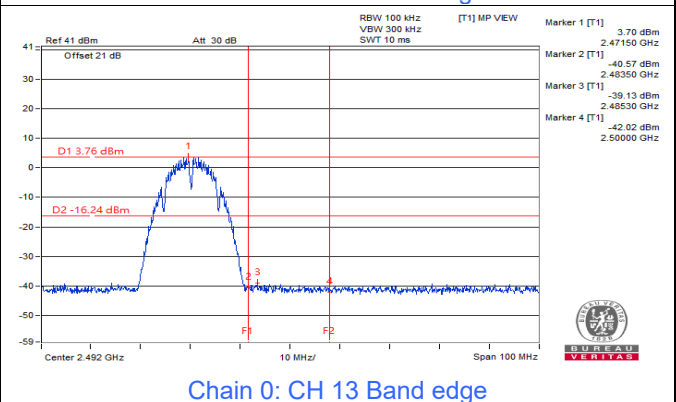
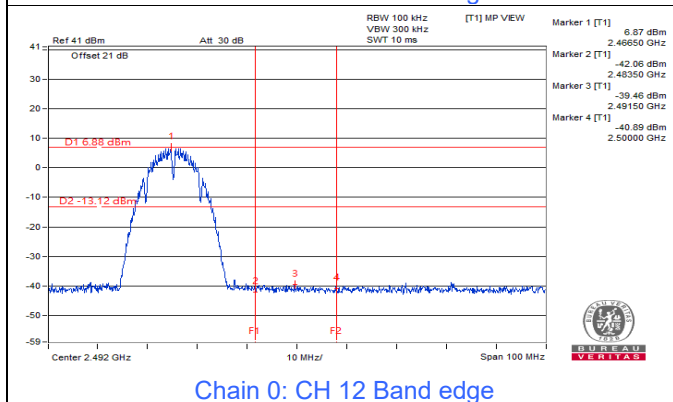
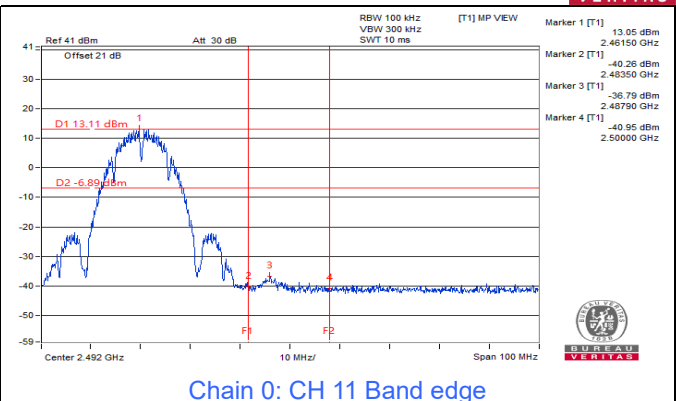
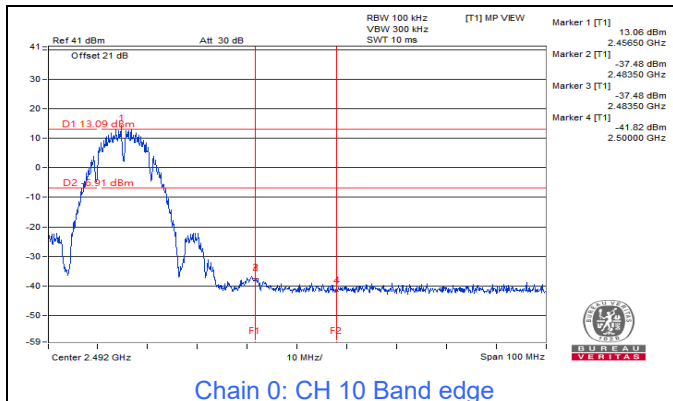
2Tx
802.11b





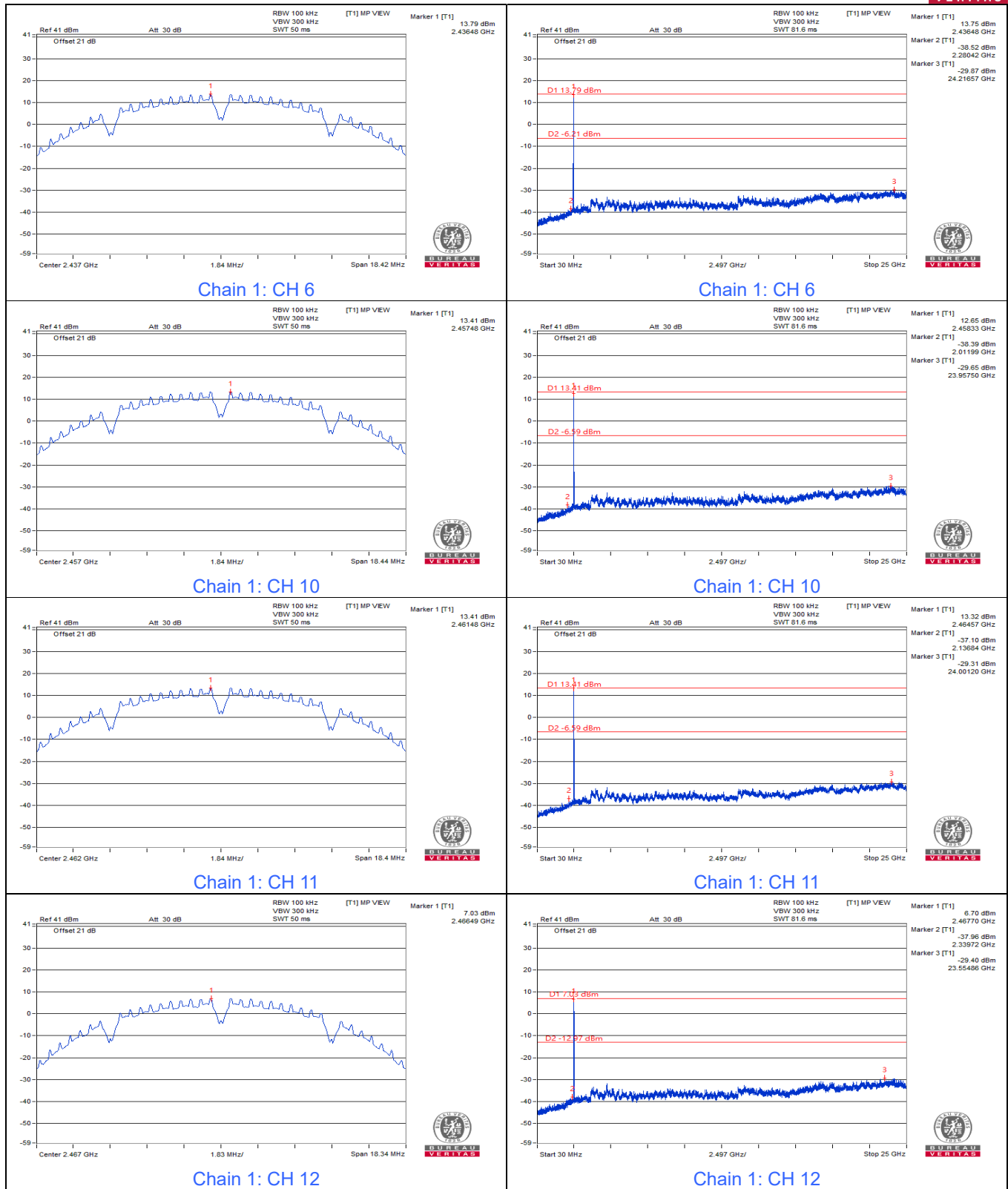
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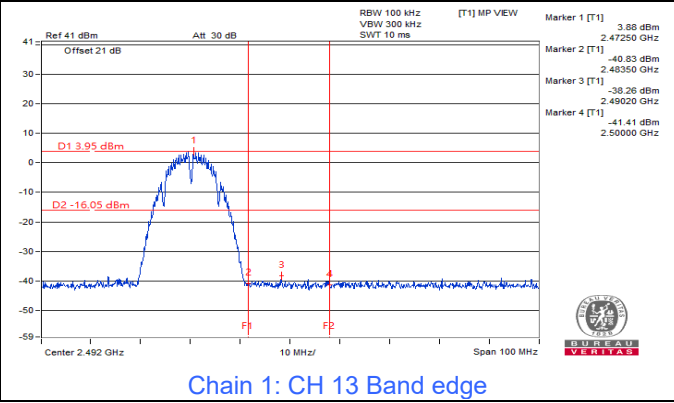
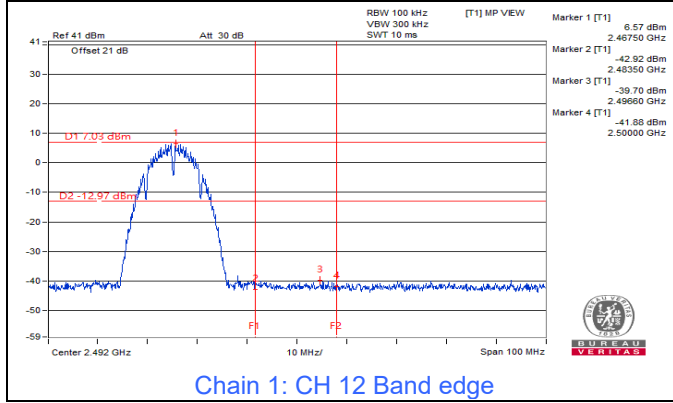
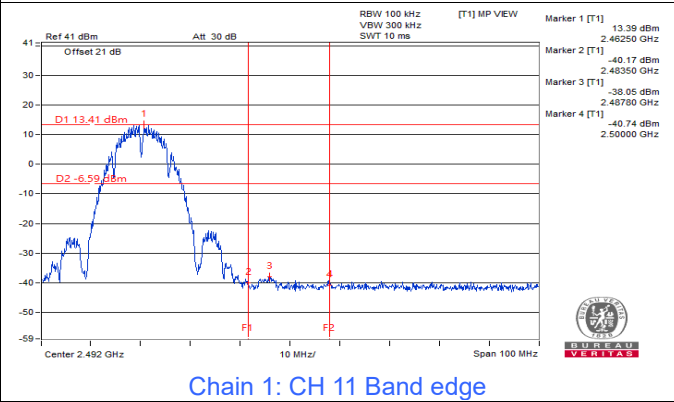
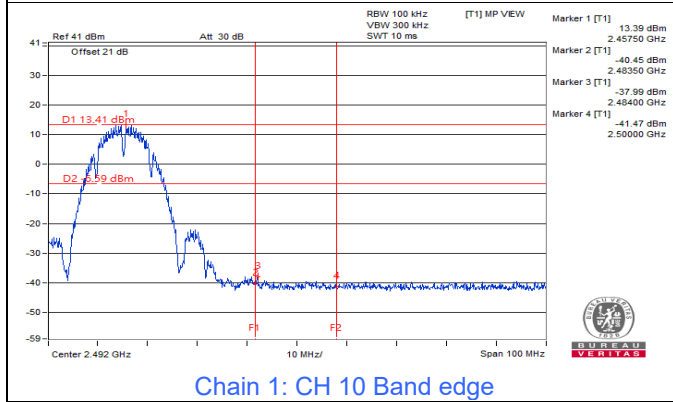
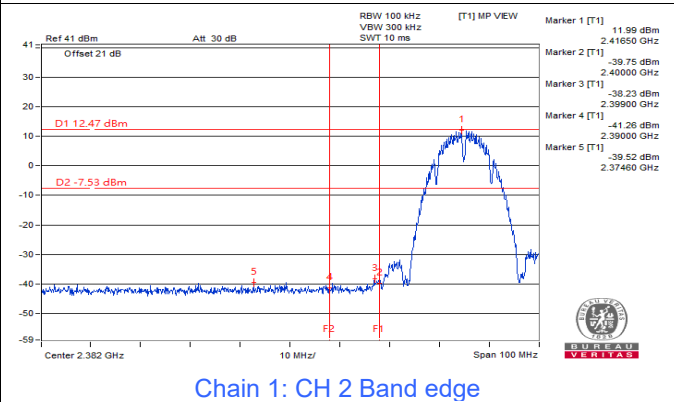
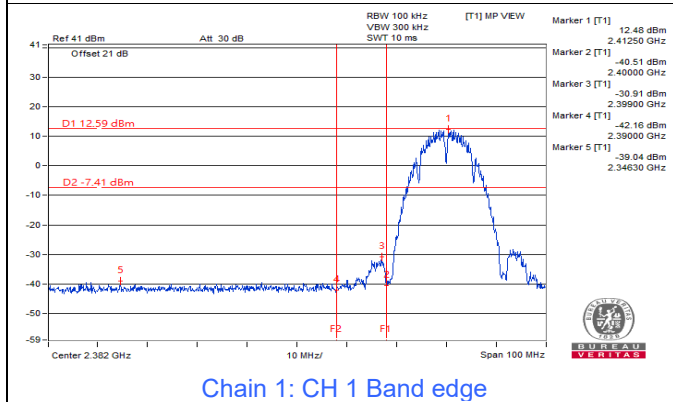
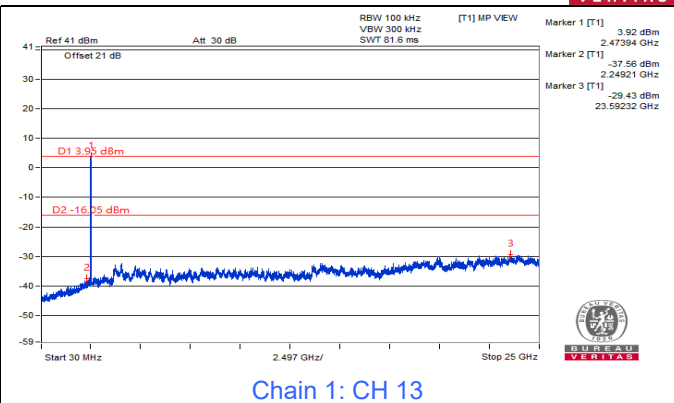
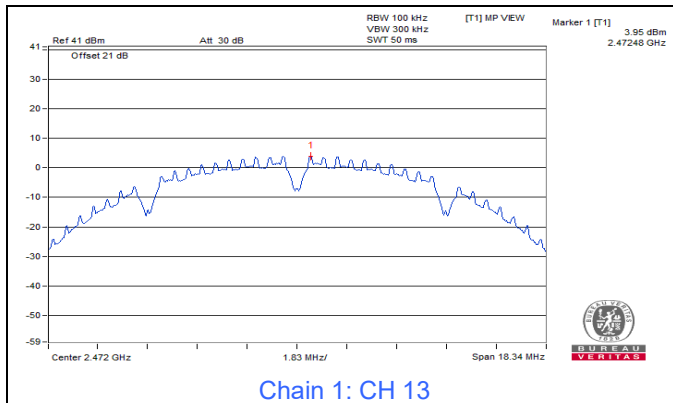




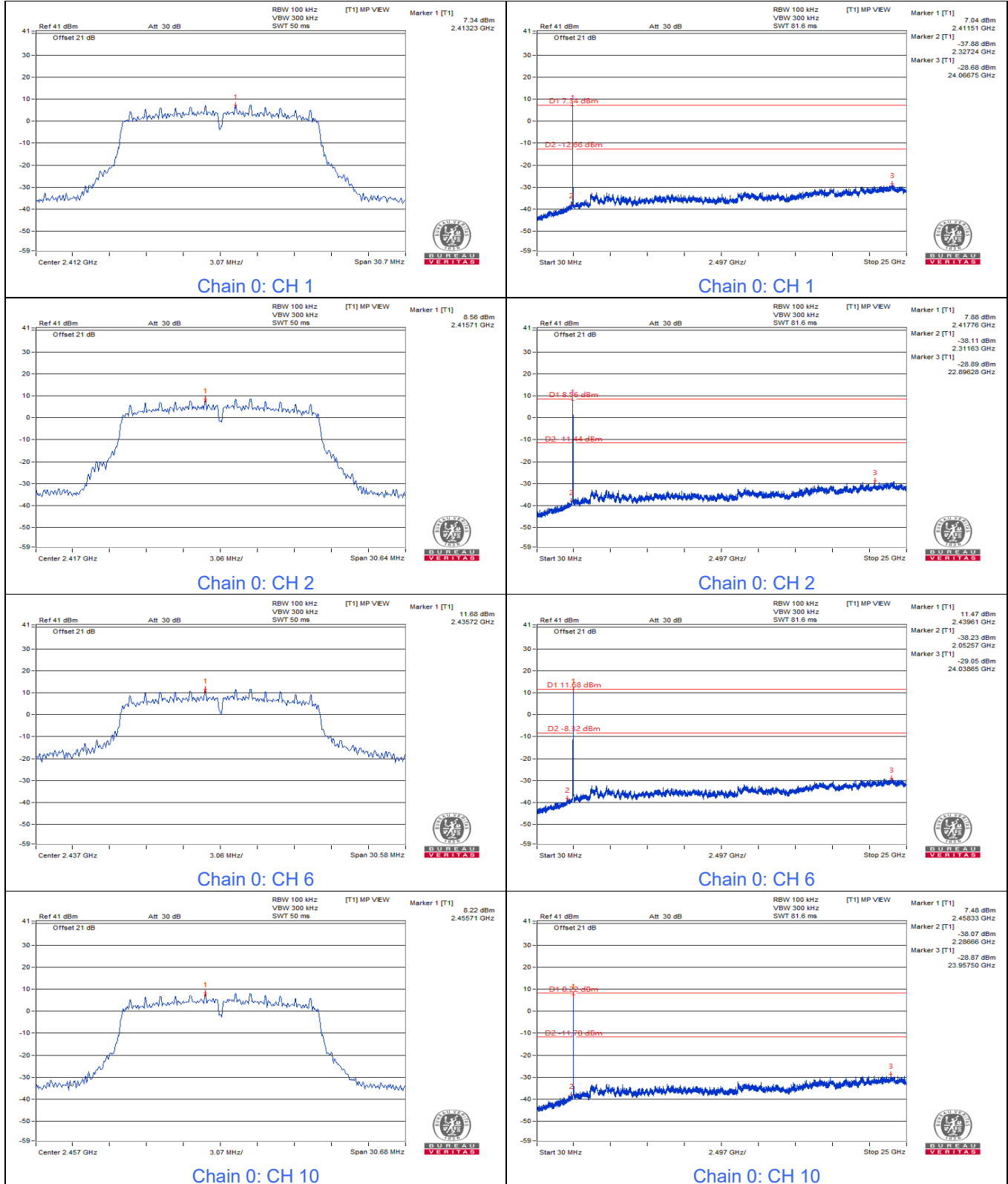


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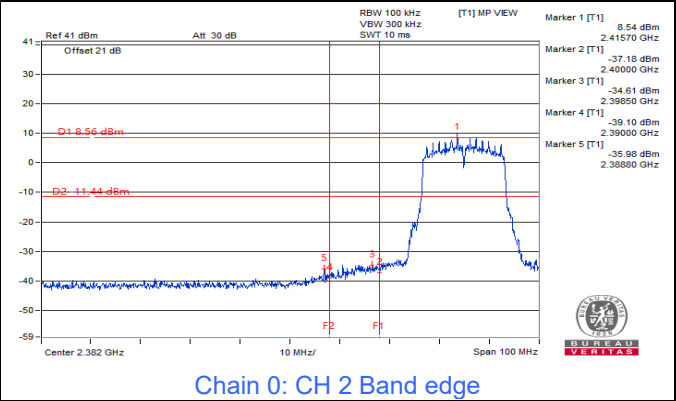
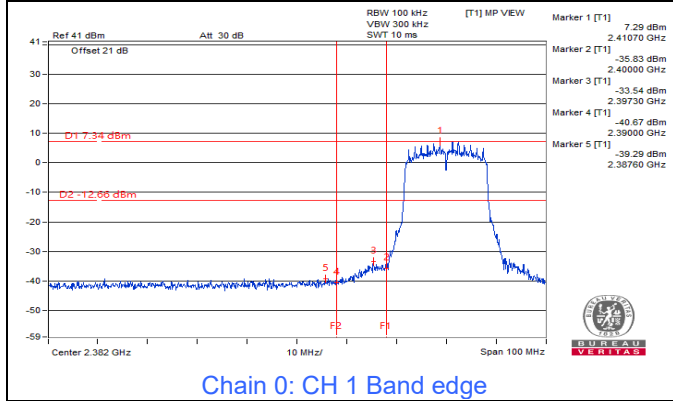
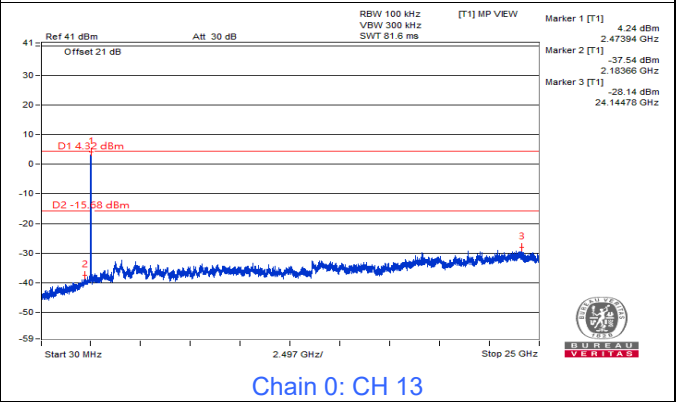
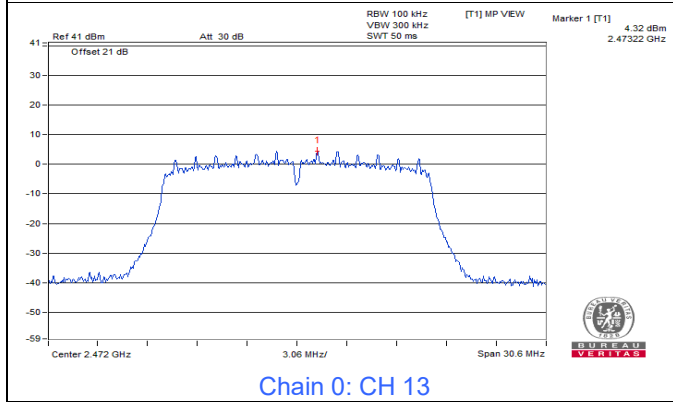
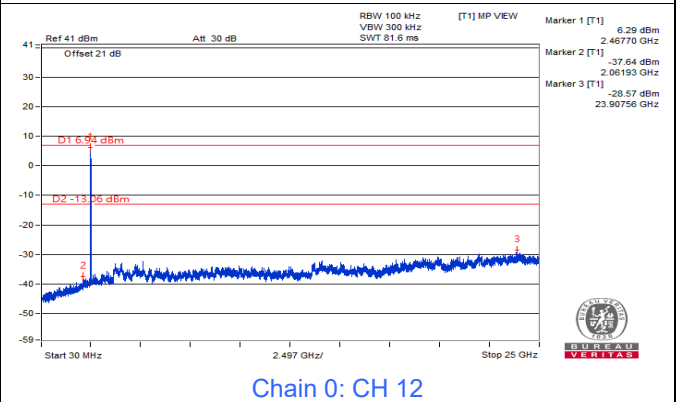
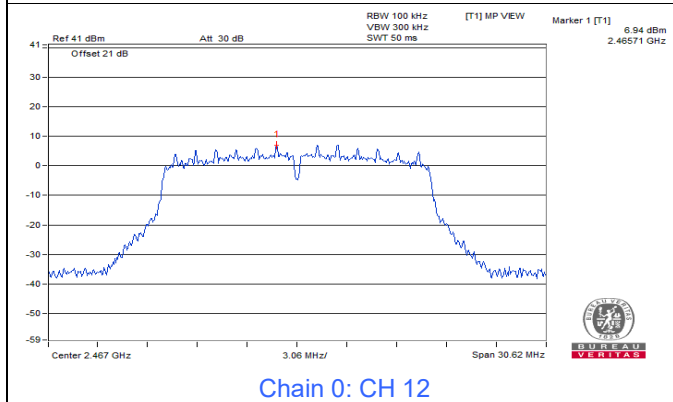
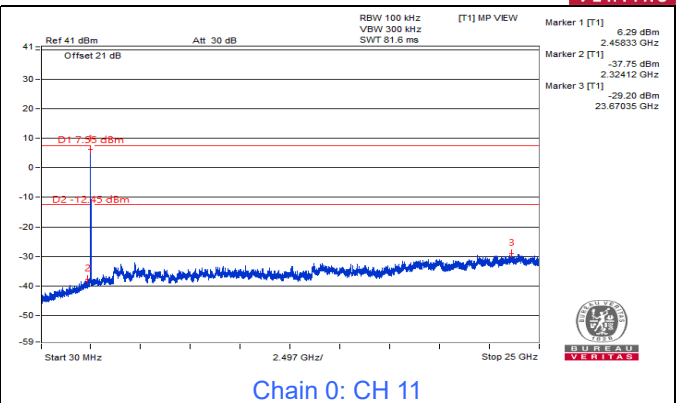
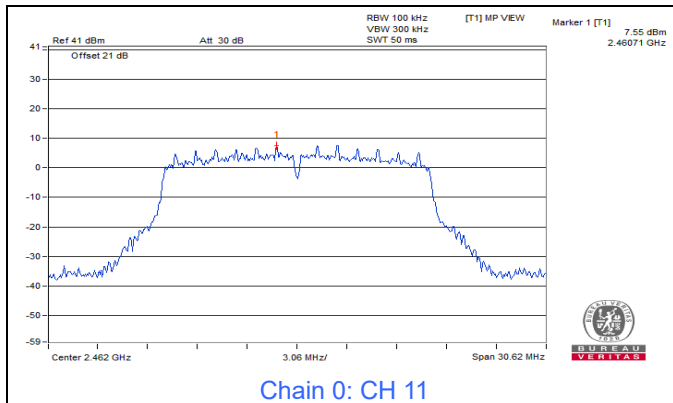


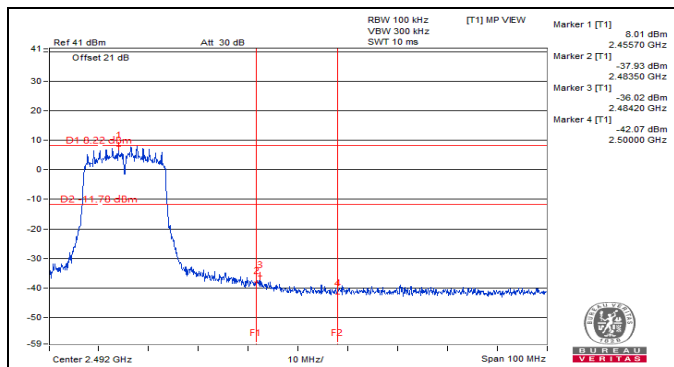
802.11g



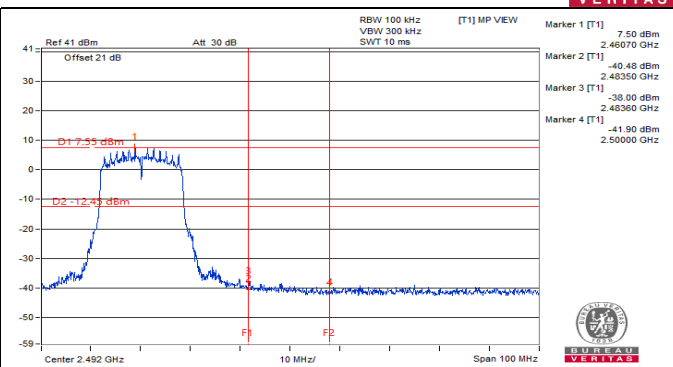


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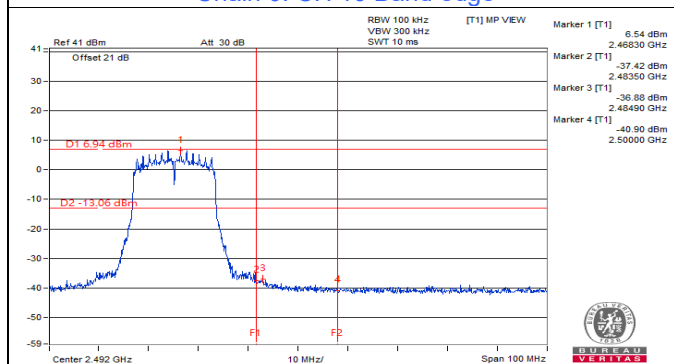




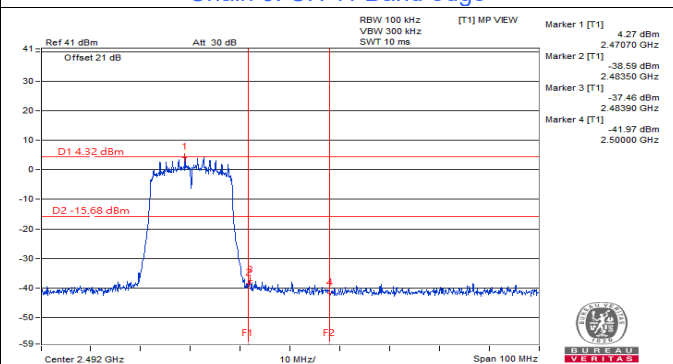
Chain 0: CH 10 Band edge



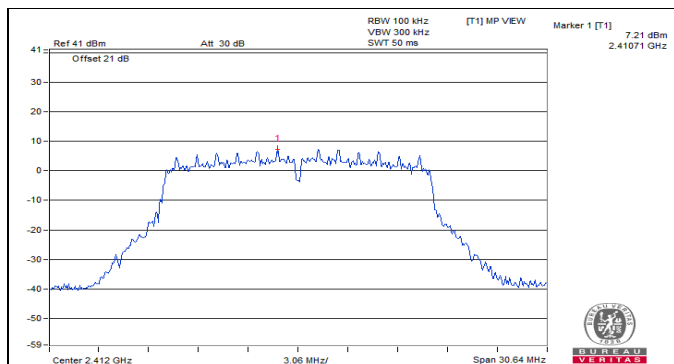
Chain 0: CH 11 Band edge



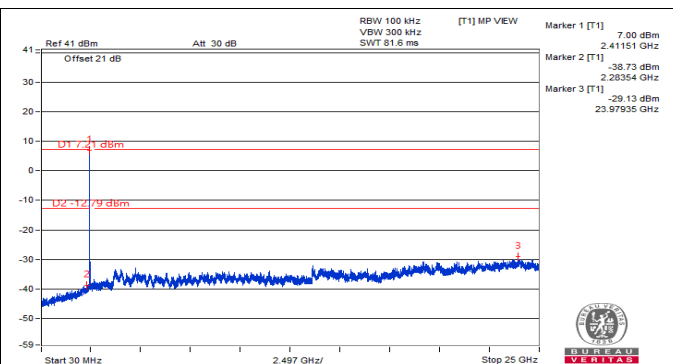
Chain 0: CH 12 Band edge



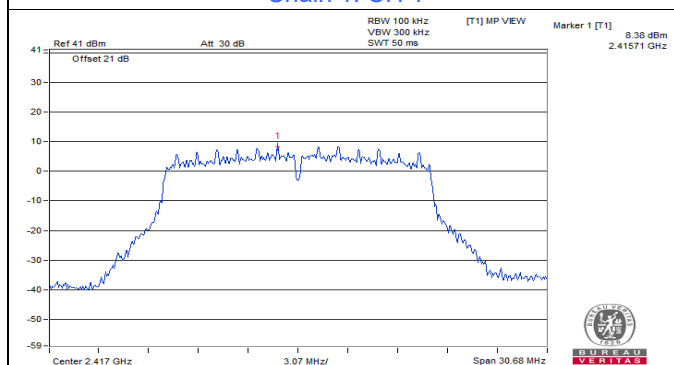
Chain 0: CH 13 Band edge



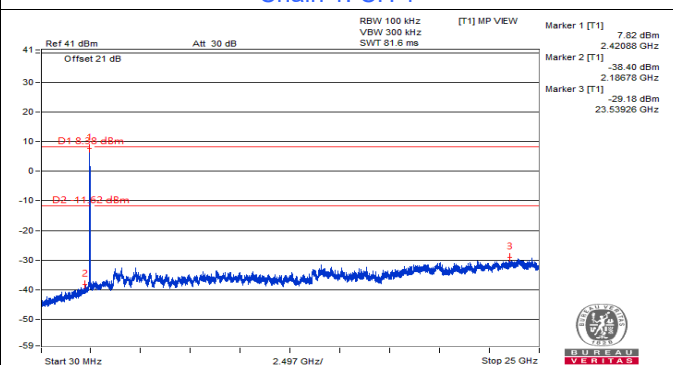
Chain 1: CH 1



Chain 1: CH 1



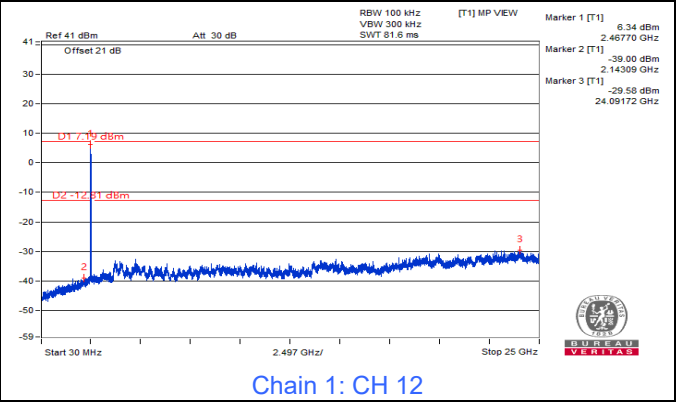
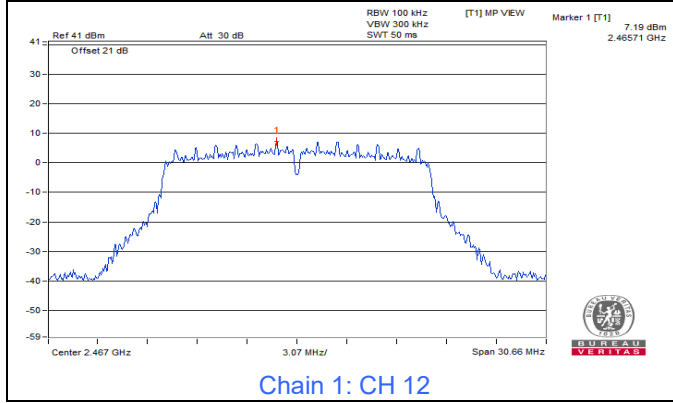
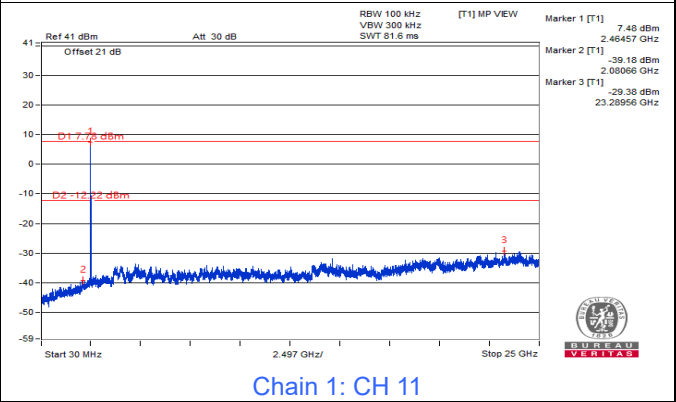
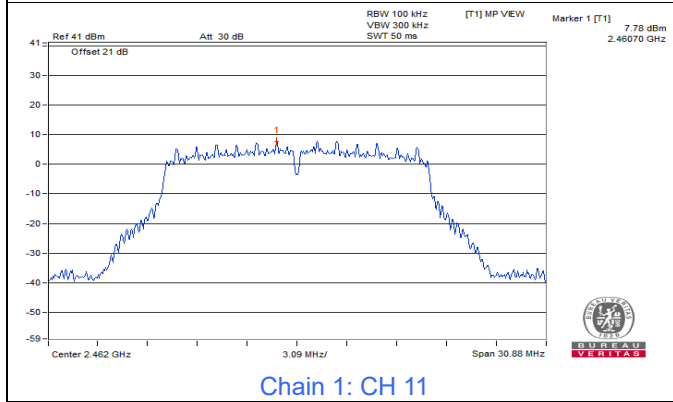
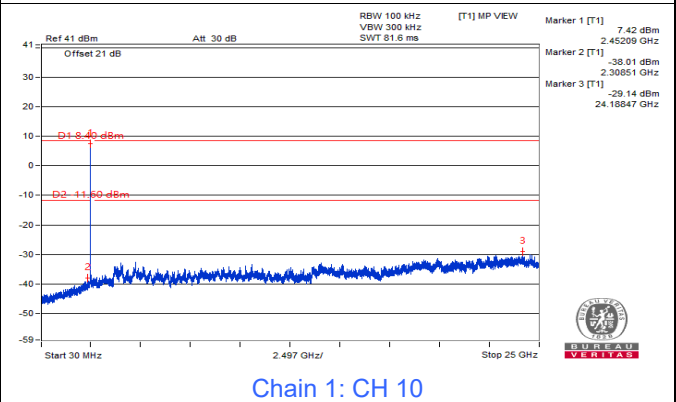
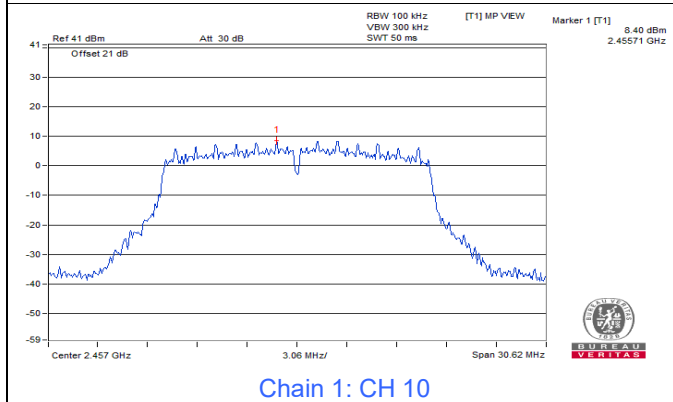
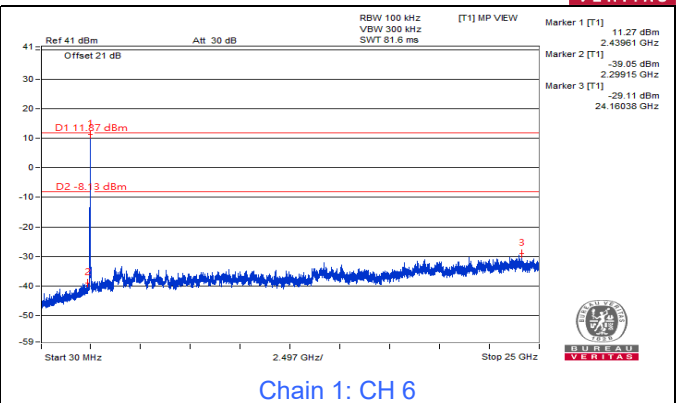
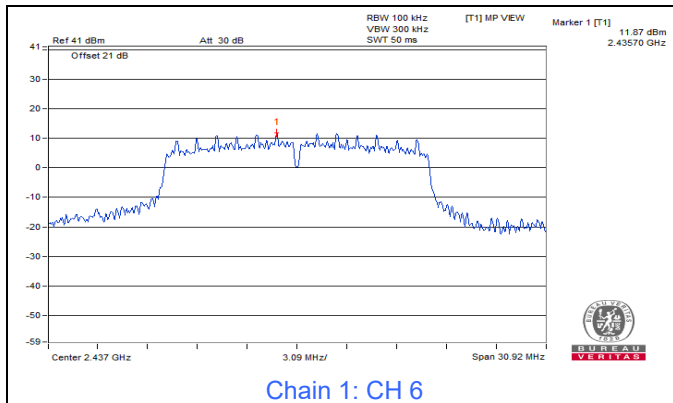
Chain 1: CH 2

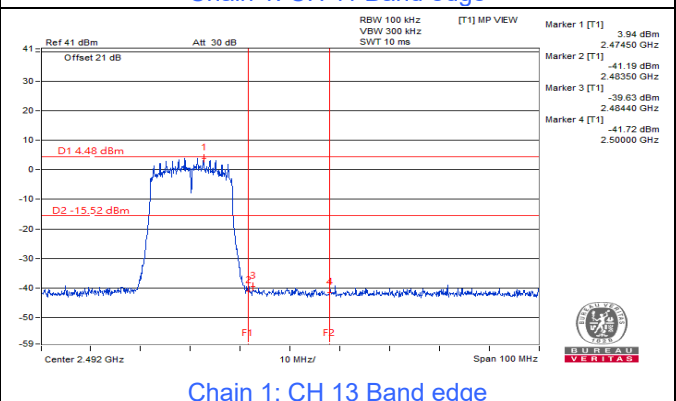
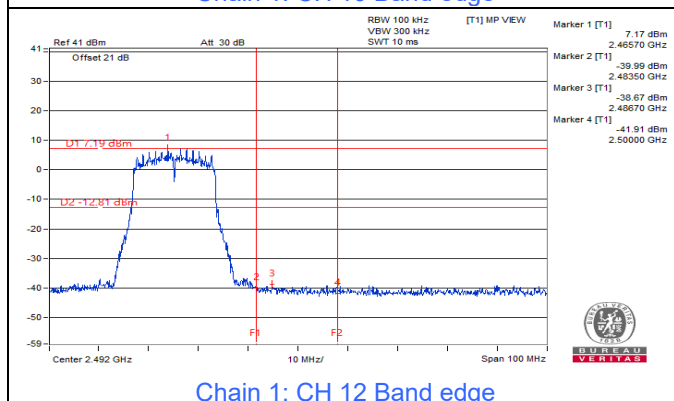
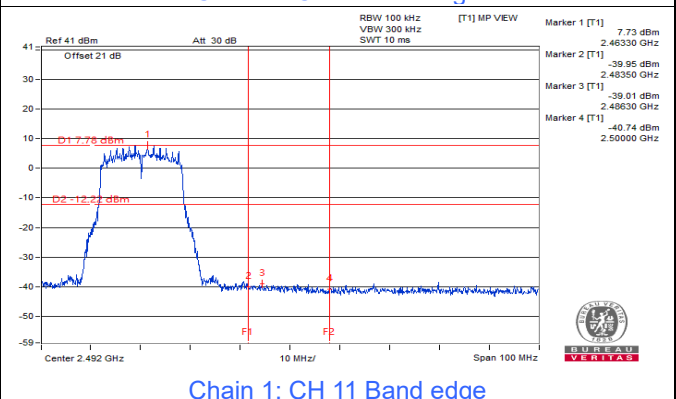
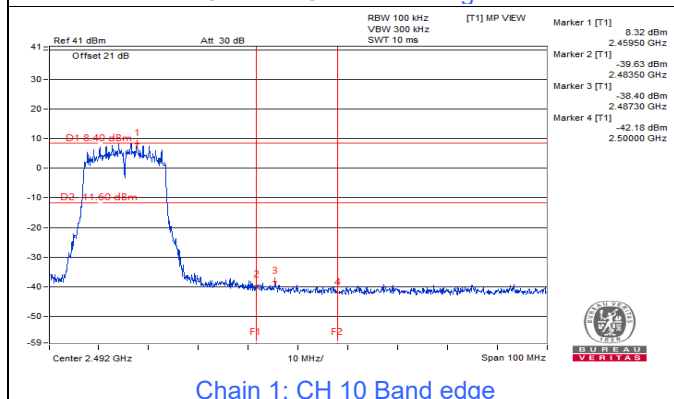
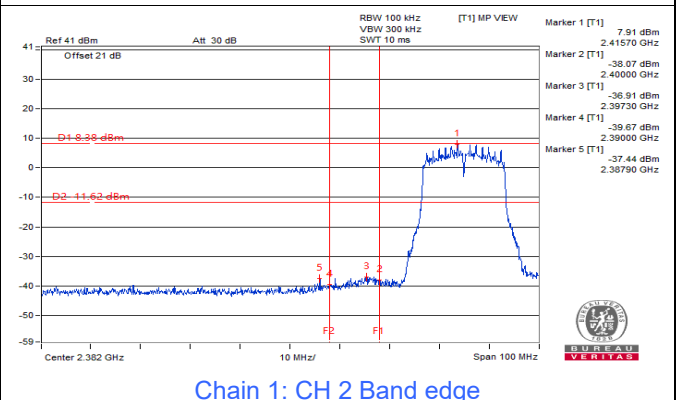
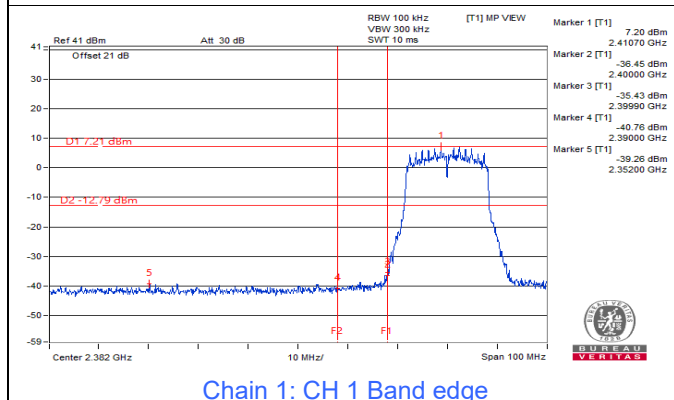
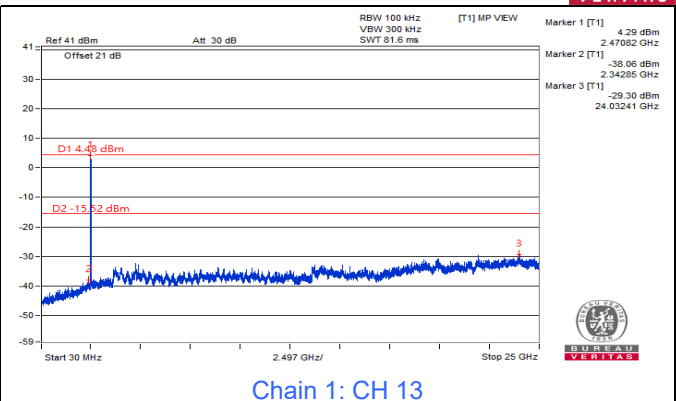
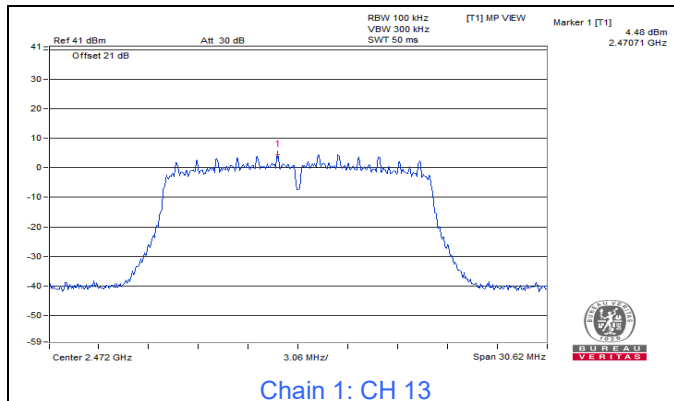


Chain 1: CH 2



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