

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 15, Subpart C (Section 15.247)

Report No.: RFBWIN-WTW-P23020421 R1

FCC ID: J9C-QCNCM825

Product: Qualcomm WiFi 7/BT Combo module

Brand: Qualcomm

Model No.: QCNCM825

Received Date: 2022/12/6

Test Date: 2023/1/10 ~ 2023/6/5

Issued Date: 2023/7/26

Applicant: Qualcomm Technologies, Inc.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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FCC Registration / 723255 / TW2022

Designation Number:

Approved by: _____


Wen Yu / Assistant Manager

, Date: _____

2023/7/26

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Prepared by : Phoenix Huang / Specialist



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Release Control Record

Issue No.	Description	Date Issued
RFBWIN-WTW-P23020421	Original release.	2023/7/5
RFBWIN-WTW-P23020421 R1	Modify the report number in the footer.	2023/7/26

1 Certificate

Product: Qualcomm WiFi 7/BT Combo module

Brand: Qualcomm

Test Model: QCNCM825

Sample Status: Engineering sample

Applicant: Qualcomm Technologies, Inc.

Test Date: 2023/1/10 ~ 2023/6/5

Standard: 47 CFR FCC Part 15, Subpart C (Section 15.247)

Measurement ANSI C63.10-2013

procedure: 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 -9.66 dB at 0.56847 MHz
15.205 / 15.209 / 15.247(d)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -3.31 dB at 83.35 MHz
15.205 / 15.209 / 15.247(d)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -0.02 dB at 2486.53 MHz
15.203	Antenna Requirement	Pass	Antenna connector is MHF 4L not a standard connector.

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

2.1 Measurement Uncertainty

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

Measurement	Specification	Expanded Uncertainty (k=2) (±)
Conducted Out of Band Emissions	9 kHz ~ 40 GHz	2.5 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	5.1 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	5.1 dB
	18 GHz ~ 40 GHz	5.3 dB

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

2.2 Supplementary Information

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

3 General Information

3.1 General Description

Product	Qualcomm WiFi 7/BT Combo module
Brand	Qualcomm
Test Model	QCNCM825
Series Model	N.A.
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 1024QAM for OFDM in VHT mode 4096QAM 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 500 Mbps 802.11ax: up to 709.1 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	932.26 mW (29.7 dBm)

Note:

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

Condition	Technology	
1	WLAN(2.4 GHz)_Ant 0+1	WLAN(5 GHz)_Ant 0+1
2	WLAN(2.4 GHz)_Ant 0+1	WLAN(6 GHz)_Ant 0+1
3	WLAN(5 GHz)_Ant 0+1	Bluetooth_Ant 0
4	WLAN(5 GHz)_Ant 0+1	Bluetooth_Ant 1
5	WLAN(5 GHz)_Ant 0+1	Bluetooth_Ant 0+1
6	WLAN(6 GHz)_Ant 0+1	Bluetooth_Ant 0
7	WLAN(6 GHz)_Ant 0+1	Bluetooth_Ant 1
8	WLAN(6 GHz)_Ant 0+1	Bluetooth_Ant 0+1
9	WLAN(2.4 GHz)_Ant 0	Bluetooth_Ant 1
10	WLAN(2.4 GHz)_Ant 1	Bluetooth_Ant 0

3. The EUT support OFDMA and Partial RU mode, therefore partial RU combination were investigated and the worst case scenario was identified.
4. 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	Cable Loss (dB)	Antenna Type	Connector Type	Cable Length (mm)
1	Chain0/1	Hong-Bo	260-25094	3.53	2.4~2.4835 GHz	0.74	PIFA	MHF 4L	300
				3.06	5.15~5.25 GHz	1.16			
				3.07	5.25~5.35 GHz	1.18			
				4.81	5.47~5.725 GHz	1.26			
				4.2	5.725~5.850 GHz	1.28			
2	Chain0/1	Hong-Bo	260-25083	5.09	5.850~5.895 GHz	1.29	PIFA	MHF 4L	300
				5.14	5.925~6.425 GHz	1.35			
				5.09	6.425~6.525 GHz	1.38			
				5.16	6.525~6.875 GHz	1.45			
				5.12	6.875~7.125 GHz	1.50			
3	Chain0/1	Hong-Bo	260-25084	3.22	2.4~2.4835 GHz	0.49	Monopole	MHF 4L	200
				3.35	5.150~5.250 GHz	0.76			
				3.42	5.250~5.350 GHz	0.77			
				4.77	5.470~5.725 GHz	0.80			
				4.72	5.725~5.850 GHz	0.84			
				4.71	5.850~5.895 GHz	0.84			
				4.75	5.925~6.425 GHz	0.86			
				4.29	6.425~6.525 GHz	0.91			
				4.81	6.525~6.875 GHz	0.96			
				4.74	6.875~7.125 GHz	0.98			

Note: For 1TX diversity configuration, transmit chain 0 and chain 1 have been evaluated, the chain 0 will be used as representative test.

* 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 / 1TX Diversity	2RX
802.11g	2TX / 1TX Diversity	2RX
802.11n (HT20)	2TX / 1TX Diversity	2RX
802.11n (HT40)	2TX / 1TX Diversity	2RX
VHT20	2TX / 1TX Diversity	2RX
VHT40	2TX / 1TX Diversity	2RX
802.11ax (HE20)	2TX / 1TX Diversity	2RX
802.11ax (HE40)	2TX / 1TX Diversity	2RX
802.11be (EHT20)	2TX / 1TX Diversity	2RX
802.11be (EHT40)	2TX / 1TX Diversity	2RX
802.11ax (RU26/52/106/242/484)	2TX / 1TX Diversity	2RX
802.11be (RU26/52/106/242/484 MRU52+26/106+26)	2TX / 1TX Diversity	2RX

Note:

1. 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 manufacturer will control the power for 802.11n/VHT/ax mode is same as the 802.11be mode or more lower than it and investigated worst case to 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

Test Item	EUT Configure Mode	Mode	TX/RX Mode	Signal Mode	Tested Channel	Modulation	Data Rate	RU/MRU Index				
RF Output Power / Power Spectral Density	A	802.11b	2TX	CDD	1, 6, 11	DSSS	1Mb/s	NA				
					12, 13							
		802.11g			1, 2, 6, 10	BPSK	6Mb/s	NA				
					11, 12, 13							
		802.11be (EHT20)			1, 2, 6, 10	BPSK	MCS0	NA				
					11, 12, 13							
		802.11be (EHT40)			3, 4, 6, 8	BPSK	MCS0	NA				
					9, 10, 11							
		802.11be (EHT20) 26-tone RU			1, 2, 6, 10	BPSK	MCS0	0, 0, 0, 8				
					11, 12, 13			8, 8, 8				
		802.11be (EHT20) 52-tone RU			1, 2, 6, 10	BPSK	MCS0	37, 37, 37, 40				
					11, 12, 13			40, 40, 40				
		802.11be (EHT20) 106-tone RU			1, 2, 6, 10	BPSK	MCS0	53, 53, 53, 54				
					11, 12, 13			54, 54, 54				
		802.11be (EHT20) 242-tone RU			6	BPSK	MCS0	61				
		802.11be (EHT40) 484-tone RU			6	BPSK	MCS0	65				
		802.11be (EHT20) 52+26-tone MRU			6	BPSK	MCS0	UL_RU52+26_Low_70_MCS0				
		802.11be (EHT20) 106+26-tone MRU			6	BPSK	MCS0	UL_RU106+26_Low_82_MCS0				
		802.11b			1TX	802.11b	NA	NA	1, 6, 11	DSSS	1Mb/s	NA
									12, 13			
		802.11g				1, 2, 6, 10			BPSK	6Mb/s	NA	
						11, 12, 13						
		802.11be (EHT20)				1, 2, 6, 10			BPSK	MCS0	NA	
						11, 12, 13						
		802.11be (EHT40)				3, 4, 6, 8			BPSK	MCS0	NA	
						9, 10, 11						
		802.11be (EHT20) 26-tone RU				1, 2, 6, 10			BPSK	MCS0	0, 0, 0, 8	
						11, 12, 13					8, 8, 8	
802.11be (EHT20) 52-tone RU	1, 2, 6, 10	BPSK	MCS0	37, 37, 37, 40								
	11, 12, 13			40, 40, 40								
802.11be (EHT20) 106-tone RU	1, 2, 6, 10	BPSK	MCS0	53, 53, 53, 54								
	11, 12, 13			54, 54, 54								
802.11be (EHT20) 242-tone RU	6	BPSK	MCS0	61								
802.11be (EHT40) 484-tone RU	6	BPSK	MCS0	65								
802.11be (EHT20) 52+26-tone MRU	6	BPSK	MCS0	UL_RU52+26_Low_70_MCS0								
802.11be (EHT20) 106+26-tone MRU	6	BPSK	MCS0	UL_RU106+26_Low_82_MCS0								

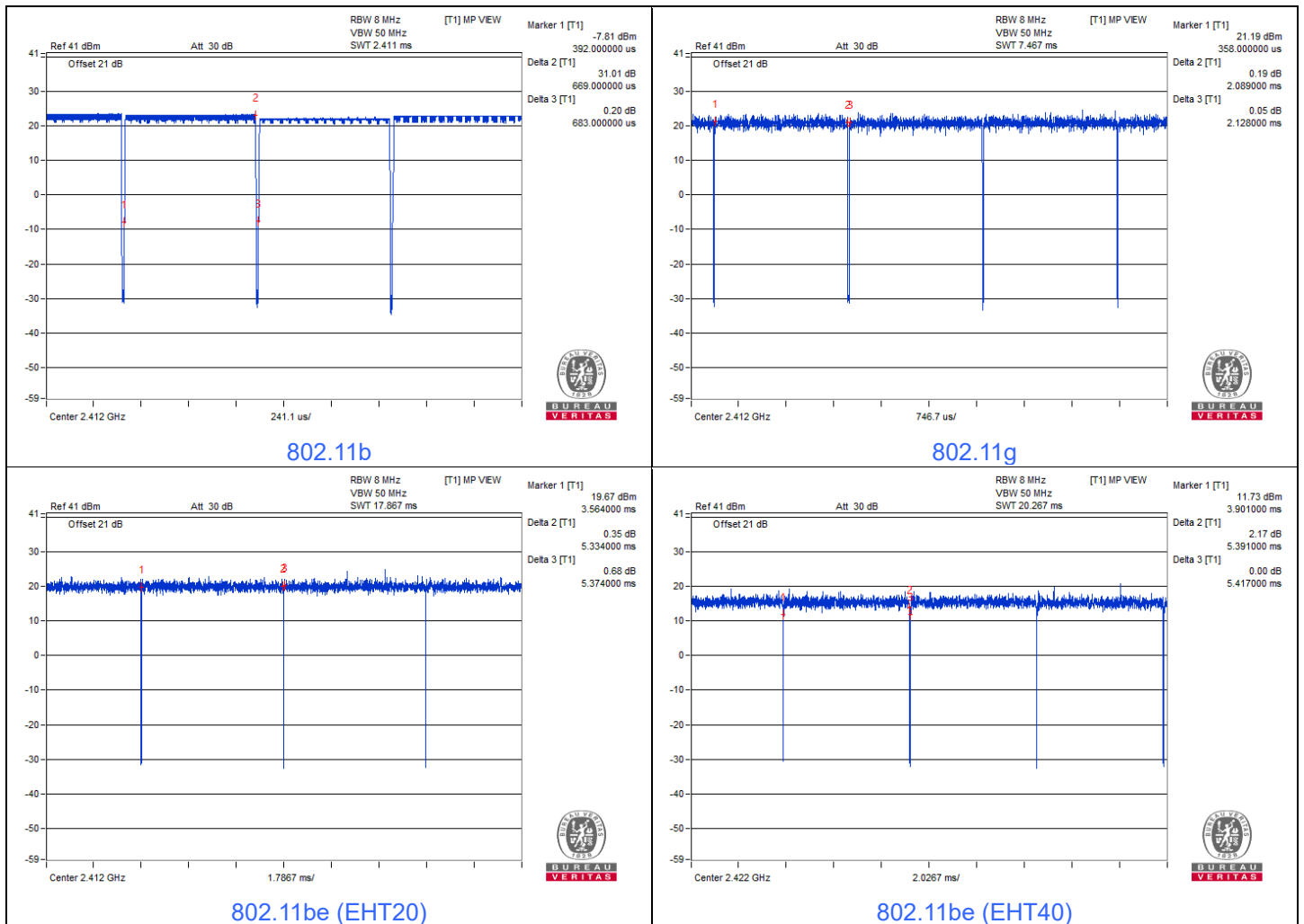
Test Item	EUT Configure Mode	Mode	TX/RX Mode	Signal Mode	Tested Channel	Modulation	Data Rate	RU/MRU Index		
6 dB Bandwidth	A	802.11b	2TX	CDD	1, 6, 11	DSSS	1Mb/s	NA		
					12, 13					
		802.11g			1, 2, 6, 10	BPSK	6Mb/s	NA		
					11, 12, 13					
		802.11be (EHT20)			1, 2, 6, 10	BPSK	MCS0	NA		
					11, 12, 13					
		802.11be (EHT40)			3, 4, 6, 8	BPSK	MCS0	NA		
					9, 10, 11					
		802.11be (EHT20) 26-tone RU			1, 2, 6, 10	BPSK	MCS0	0, 0, 0, 8		
					11, 12, 13			8, 8, 8		
		802.11be (EHT20) 52-tone RU			1, 2, 6, 10	BPSK	MCS0	37, 37, 37, 40		
					11, 12, 13			40, 40, 40		
		802.11be (EHT20) 106-tone RU			1, 2, 6, 10	BPSK	MCS0	53, 53, 53, 54		
					11, 12, 13			54, 54, 54		
		802.11be (EHT20) 242-tone RU			6	BPSK	MCS0	NA		
		802.11be (EHT40) 484-tone RU			6	BPSK	MCS0	NA		
		802.11be (EHT20) 52+26-tone MRU			6	BPSK	MCS0	UL_RU52+26_Low_70_MCS0		
		802.11be (EHT20) 106+26-tone MRU			6	BPSK	MCS0	UL_RU106+26_Low_82_MCS0		
		802.11b			1TX	NA	1, 6, 11	DSSS	1Mb/s	NA
							12, 13			
		802.11g					1, 2, 6, 10	BPSK	6Mb/s	NA
							11, 12, 13			
		802.11be (EHT20)					1, 2, 6, 10	BPSK	MCS0	NA
							11, 12, 13			
		802.11be (EHT40)					3, 4, 6, 8	BPSK	MCS0	NA
							9, 10, 11			
		802.11be (EHT20) 26-tone RU					1, 2, 6, 10	BPSK	MCS0	0, 0, 0, 8
							11, 12, 13			8, 8, 8
802.11be (EHT20) 52-tone RU	1, 2, 6, 10	BPSK	MCS0	37, 37, 37, 40						
	11, 12, 13			40, 40, 40						
802.11be (EHT20) 106-tone RU	1, 2, 6, 10	BPSK	MCS0	53, 53, 53, 54						
	11, 12, 13			54, 54, 54						
802.11be (EHT20) 242-tone RU	6	BPSK	MCS0	61						
802.11be (EHT40) 484-tone RU	6	BPSK	MCS0	65						
802.11be (EHT20) 52+26-tone MRU	6	BPSK	MCS0	UL_RU52+26_Low_70_MCS0						
802.11be (EHT20) 106+26-tone MRU	6	BPSK	MCS0	UL_RU106+26_Low_82_MCS0						

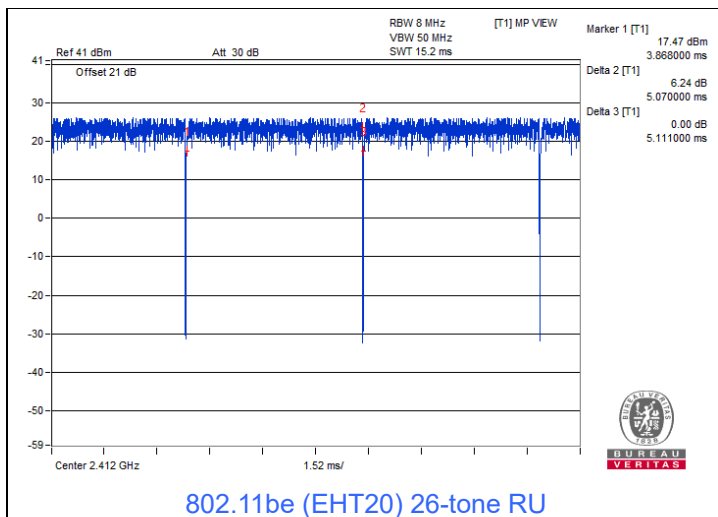
Test Item	EUT Configure Mode	Mode	TX/RX Mode	Signal Mode	Tested Channel	Modulation	Data Rate	RU/MRU Index		
Conducted Out of Band Emissions	A	802.11b	2TX	CDD	1, 6, 11	DSSS	1Mb/s	NA		
					12, 13					
		802.11g			1, 2, 6, 10	BPSK	6Mb/s	NA		
					11, 12, 13					
		802.11be (EHT20)			1, 2, 6, 10	BPSK	MCS0	NA		
					11, 12, 13					
		802.11be (EHT40)			3, 4, 6, 8	BPSK	MCS0	NA		
					9, 10, 11					
		802.11be (EHT20) 26-tone RU			1, 2, 6, 10	BPSK	MCS0	0, 0, 0, 8		
					11, 12, 13			8, 8, 8		
		802.11be (EHT20) 52-tone RU			1, 2, 6, 10	BPSK	MCS0	37, 37, 37, 40		
					11, 12, 13			40, 40, 40		
		802.11be (EHT20) 106-tone RU			1, 2, 6, 10	BPSK	MCS0	53, 53, 53, 54		
					11, 12, 13			54, 54, 54		
		802.11b			1TX	NA	1, 6, 11	DSSS	1Mb/s	NA
							12, 13			
802.11g	1, 2, 6, 10	BPSK	6Mb/s	NA						
	11, 12, 13									
802.11be (EHT20)	1, 2, 6, 10	BPSK	MCS0	NA						
	11, 12, 13									
802.11be (EHT40)	3, 4, 6, 8	BPSK	MCS0	NA						
	9, 10, 11									
802.11be (EHT20) 26-tone RU	1, 2, 6, 10	BPSK	MCS0	0, 0, 0, 8						
	11, 12, 13			8, 8, 8						
802.11be (EHT20) 52-tone RU	1, 2, 6, 10	BPSK	MCS0	37, 37, 37, 40						
	11, 12, 13			40, 40, 40						
802.11be (EHT20) 106-tone RU	1, 2, 6, 10	BPSK	MCS0	53, 53, 53, 54						
	11, 12, 13			54, 54, 54						
AC Power Conducted Emissions	B	802.11be (EHT20)	2TX	CDD			6	DBPSK	MCS0	NA
Unwanted Emissions below 1 GHz	A, B	802.11be (EHT20)	2TX	CDD			6	DBPSK	MCS0	NA

Test Item	EUT Configure Mode	Mode	TX/RX Mode	Signal Mode	Tested Channel	Modulation	Data Rate	RU/MRU Index	
Unwanted Emissions above 1 GHz	A, B	802.11b	2TX	CDD	1, 6, 11	DSSS	1Mb/s	NA	
					12, 13				
		802.11g			1, 2, 6, 10	BPSK	6Mb/s	NA	
					11, 12, 13				
		802.11be (EHT20)			1, 2, 6, 10	BPSK	MCS0	NA	
					11, 12, 13				
		802.11be (EHT40)			3, 4, 6, 8	BPSK	MCS0	NA	
					9, 10, 11				
	802.11be (EHT) 26-tone RU	1, 2, 6, 10	BPSK	MCS0	0, 0, 0, 8				
	11, 12, 13	8, 8, 8							
	802.11be (EHT) 52-tone RU	1, 2, 6, 10	BPSK	MCS0	37, 37, 37, 40				
	11, 12, 13	40, 40, 40							
	802.11be (EHT) 106-tone RU	1, 2, 6, 10	BPSK	MCS0	53, 53, 53, 54				
	11, 12, 13	54, 54, 54							
			802.11b	1TX	NA	1, 6, 11	DSSS	1Mb/s	NA
						12, 13			
802.11g			1, 2, 6, 10			BPSK	6Mb/s	NA	
			11, 12, 13						
802.11be (EHT20)			1, 2, 6, 10,			BPSK	MCS0	NA	
			11, 12, 13						
802.11be (EHT40)			3, 4, 6, 8			BPSK	MCS0	NA	
			9, 10, 11						
802.11be (EHT) 26-tone RU	1, 2, 6, 10	BPSK	MCS0	0, 0, 0, 8					
11, 12, 13	8, 8, 8								
802.11be (EHT) 52-tone RU	1, 2, 6, 10	BPSK	MCS0	37, 37, 37, 40					
11, 12, 13	40, 40, 40								
802.11be (EHT) 106-tone RU	1, 2, 6, 10	BPSK	MCS0	53, 53, 53, 54					
11, 12, 13	54, 54, 54								
EUT Configure Mode:	A	EUT only (w/o antenna)							
	B	EUT with 50 ohm terminator							

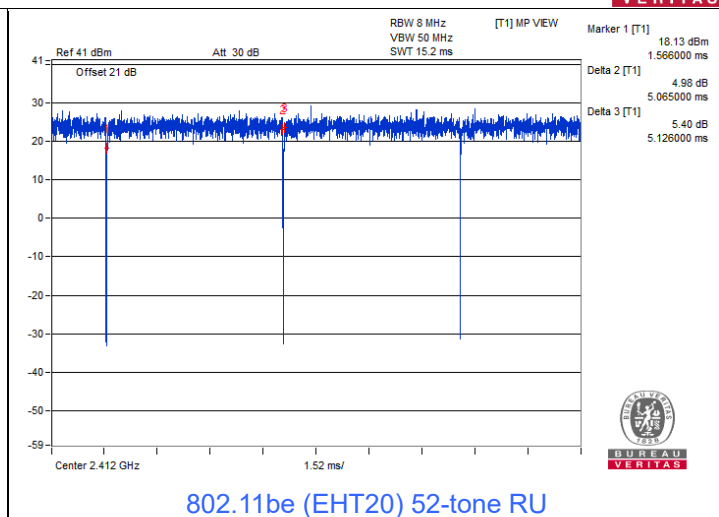
3.5 Duty Cycle of Test Signal

- 802.11b: Duty cycle = 0.669 ms / 0.683 ms x 100% = 98.0%
- 802.11g: Duty cycle = 2.089 ms / 2.128 ms x 100% = 98.2%
- 802.11be (EHT20): Duty cycle = 5.334 ms / 5.374 ms x 100% = 99.3%
- 802.11be (EHT40): Duty cycle = 5.391 ms / 5.417 ms x 100% = 99.5%
- 802.11be (EHT20) 26-tone RU: Duty cycle = 5.07 ms / 5.111 ms x 100% = 99.2%
- 802.11be (EHT20) 52-tone RU: Duty cycle = 5.065 ms / 5.126 ms x 100% = 98.8%
- 802.11be (EHT20) 106-tone RU: Duty cycle = 4.762 ms / 4.807 ms x 100% = 99.1%
- 802.11be (EHT20) 242-tone RU: Duty cycle = 4.651 ms / 4.704 ms x 100% = 98.9%
- 802.11be (EHT40) 484-tone RU: Duty cycle = 3.306 ms / 3.355 ms x 100% = 98.5%
- 802.11be (EHT) 52+26-tone MRU: Duty cycle = 4.541 ms / 4.579 ms x 100% = 99.2%
- 802.11be (EHT) 106+26-tone MRU: Duty cycle = 4.313 ms / 4.37 ms x 100% = 98.7%

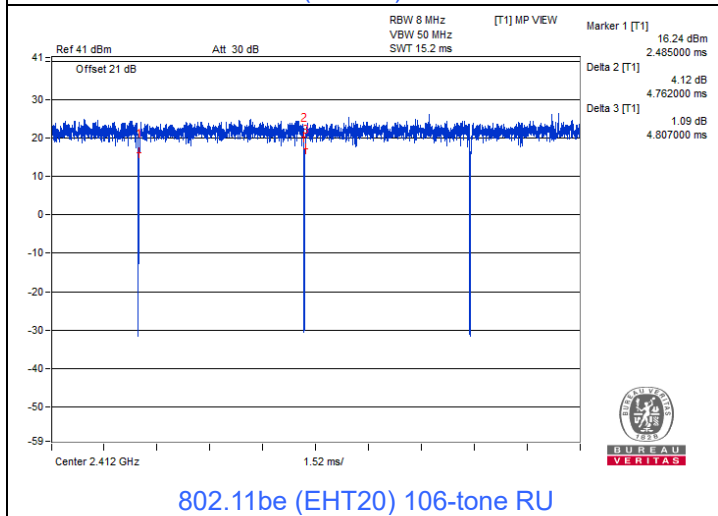




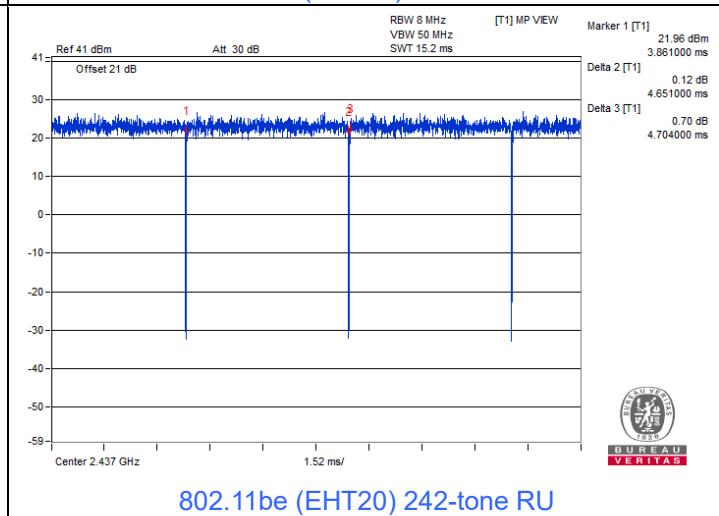
802.11be (EHT20) 26-tone RU



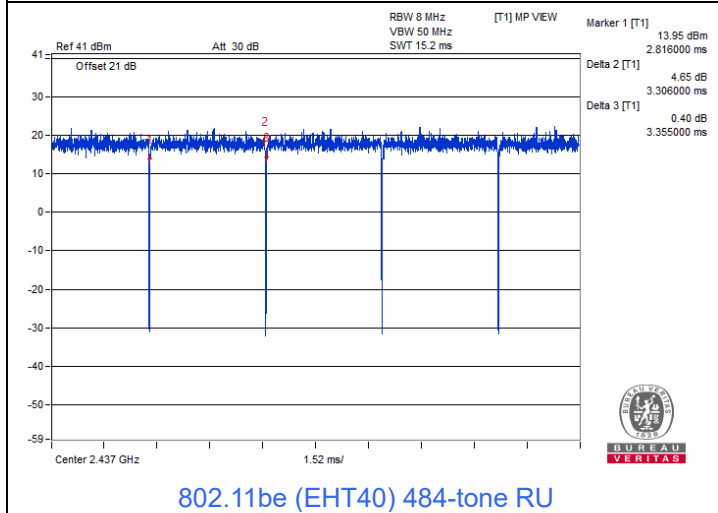
802.11be (EHT20) 52-tone RU



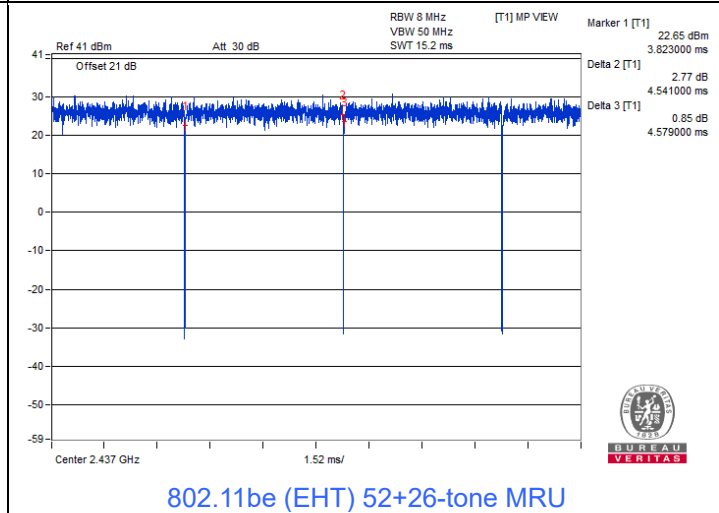
802.11be (EHT20) 106-tone RU



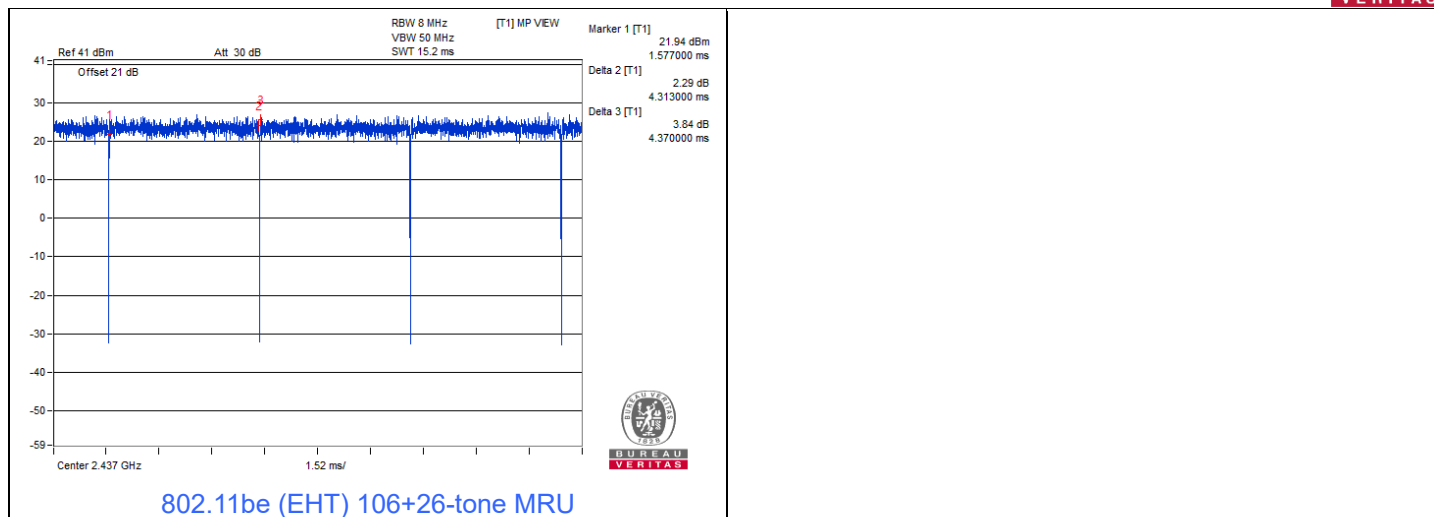
802.11be (EHT20) 242-tone RU



802.11be (EHT40) 484-tone RU



802.11be (EHT) 52+26-tone MRU

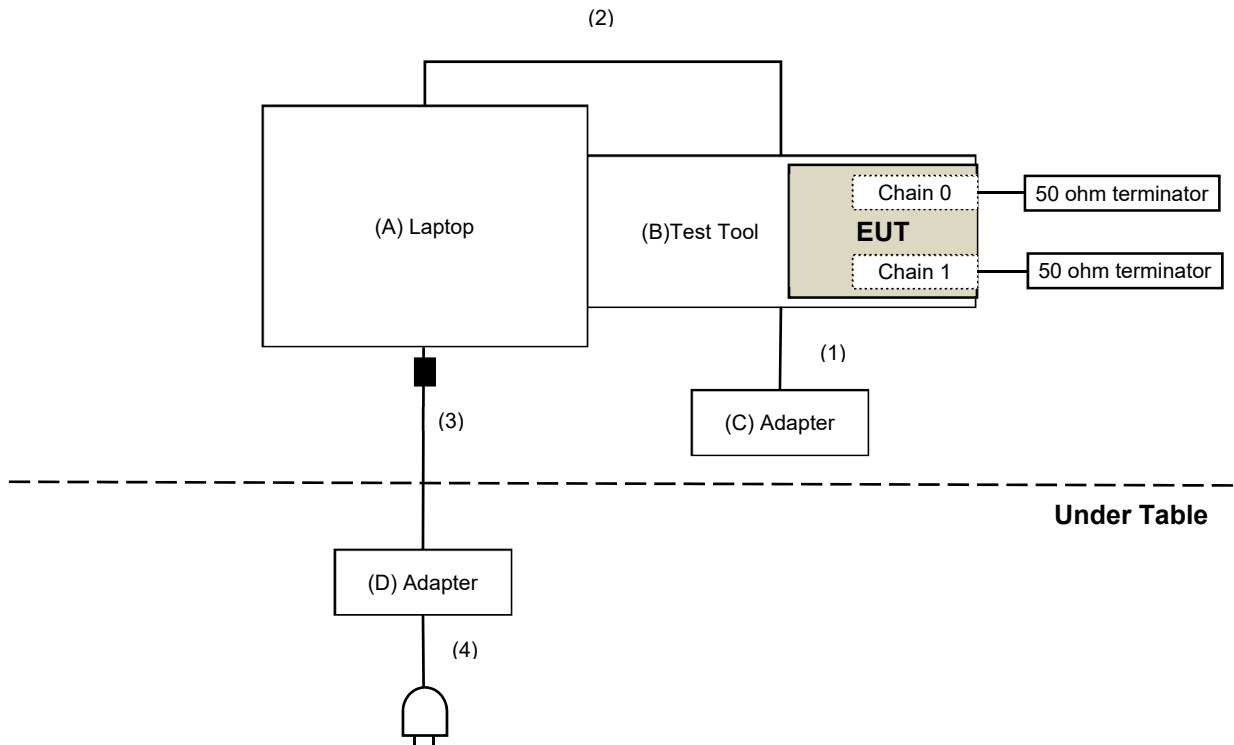


3.6 Test Program Used and Operation Descriptions

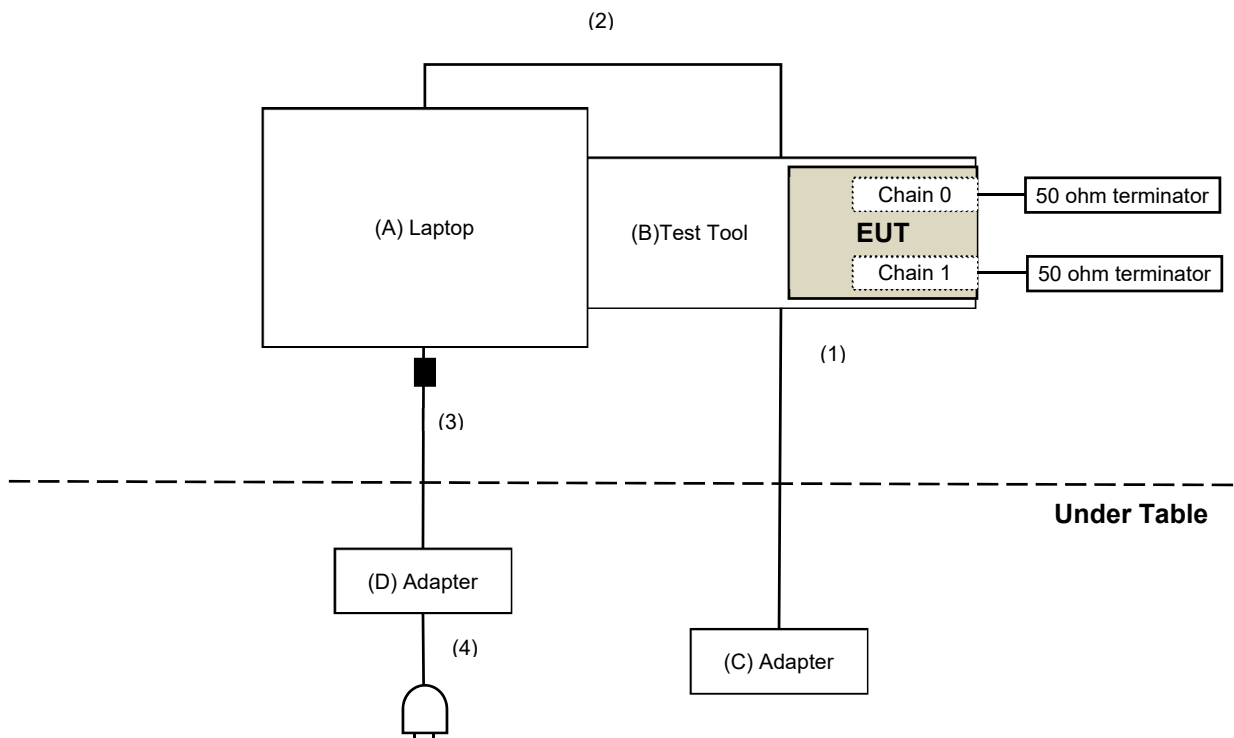
Controlling software (WiFi/BT:QRCT 4.0.00159.1) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices

For AC Power Conducted Emission test



For Unwanted Emission test



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Laptop	Dell	E5420	6FGHKV1	N/A	Provided by Lab
B	Test Tool	Qualcomm	N/A	N/A	N/A	Supplied by applicant
C	Adapter	PHIHONG	PSAA12A-120L6	N/A	N/A	Supplied by applicant
D	Adapter	Dell	LLA65NS2-01	N/A	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	DC Cable	1	1.2	NO	0	Supplied by applicant
2	Micro USB Cable	1	0.6	Yes	0	Provided by Lab
3	DC Cable	1	1.8	NO	1	Provided by Lab
4	AC Cable	1	1.5	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	MDCS18N-10	MDCS18N-10-01	2022/4/5 2023/3/27	2023/4/4 2024/3/26
Power Meter Anritsu	ML2495A	1529002	2022/6/22	2023/6/21
Pulse Power Sensor Anritsu	MA2411B	1726434	2022/6/22	2023/6/21

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2023/1/10 ~ 2023/5/2

4.2 Power Spectral Density

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator WOKEN	MDCS18N-10	MDCS18N-10-01	2022/4/5 2023/3/27	2023/4/4 2024/3/26
Fixed Attenuator WOKEN	MDCS18N-10	MDCS18N-10-02	2022/4/5 2023/3/27	2023/4/4 2024/3/26
MXA Signal Analyzer Keysight	N9020B	MY60112409	2022/3/11 2023/2/18	2023/3/10 2024/2/17
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2023/1/10 ~ 2023/5/2

4.3 6 dB Bandwidth

Refer to section 4.2 to get information of the instruments.

4.4 Conducted Out of Band Emissions

Refer to section 4.2 to get information of the instruments.

4.5 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance	N/A	EMC-01	2022/9/27	2023/9/26
EMI Test Receiver R&S	ESCS 30	847124/029	2022/10/14	2023/10/13
Fixed Attenuator STI	STI02-2200-10	005	2022/8/24	2023/8/23
LISN R&S	ESH3-Z5	848773/004	2022/10/18	2023/10/17
RF Coaxial Cable JYEBO	5D-FB	COCCAB-001	2022/8/24	2023/8/23
Software BVADT	BVADT_Cond_V7.3.7.4	N/A	N/A	N/A

Notes:

1. The test was performed in Conduction 1
2. Tested Date: 2023/5/10

4.6 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-0842	2022/10/24	2023/10/23
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	N/A	N/A
EMI Test Receiver R&S	ESR3	102528	2023/2/10	2024/2/9
Fixed Attenuator Mini-Circuits	UNAT-5+	PAD-ATT5-02	2022/12/28	2023/12/27
Loop Antenna Electro-Metrics	EM-6879	264	2023/2/21	2024/2/20
MXA Signal Analyzer Keysight	N9020B	MY60112410	2023/3/6	2024/3/5
Preamplifier Agilent	8447D	2944A10636	2023/3/12	2024/3/11
Preamplifier EMCI	EMC330N	980538	2023/4/6	2024/4/5
PXA Signal Analyzer Keysight	N9030B	MY57141948	2023/5/19	2024/5/18
RF Coaxial Cable COMMATE/PEWC	8D	966-5-1	2023/4/6	2024/4/5
		966-5-2	2023/4/6	2024/4/5
		966-5-3	2023/4/6	2024/4/5
RF Coaxial Cable JYEBO	5D-FB	LOOPCAB-001	2022/12/19	2023/12/18
		LOOPCAB-002	2022/12/19	2023/12/18
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A
Fixed Attenuator WOKEN	MDCS18N-10	MDCS18N-10-01	2023/3/27	2024/3/26

Notes:

1. The test was performed in 966 Chamber No. 5.
2. Tested Date: 2023/5/20

4.7 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	N/A	N/A
EMI Test Receiver R&S	ESR3	102528	2023/2/10	2024/2/9
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-1819	2022/11/13	2023/11/12
	BBHA 9170	9170-739	2022/11/13	2023/11/12
MXA Signal Analyzer Keysight	N9020B	MY60112410	2023/3/6	2024/3/5
Preamplifier EMCI	EMC12630SE	980509	2023/4/7	2024/4/6
	EMC184045SE	980387	2022/12/28	2023/12/27
RF Coaxial Cable EMCI	EMC-KM-KM-4000	200214	2023/2/20	2024/2/19
	EMC102-KM-KM-1200	160924	2022/12/28	2023/12/27
	EMC104-SM-SM-1500	180503	2023/4/7	2024/4/6
	EMC104-SM-SM-2000	180501	2023/4/7	2024/4/6
	EMC104-SM-SM-6000	180506	2023/4/7	2024/4/6
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A
Fixed Attenuator WOKEN	MDCS18N-10	MDCS18N-10-01	2023/3/27	2024/3/26
Fixed Attenuator WOKEN	MDCS18N-10	MDCS18N-10-02	2023/3/27	2024/3/26

Notes:

1. The test was performed in 966 Chamber No. 5.
2. Tested Date: 2023/5/23 ~ 2023/6/5

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(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

Notes:

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

5.7 Unwanted Emissions above 1 GHz

Radiated emissions above 1 GHz which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20 dB below the highest level of the desired power:

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

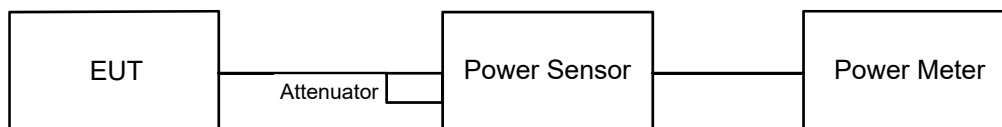
Notes:

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:

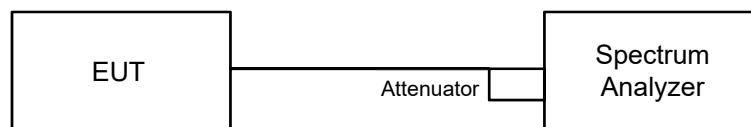
A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.

Average Power:

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

6.2 Power Spectral Density

6.2.1 Test Setup

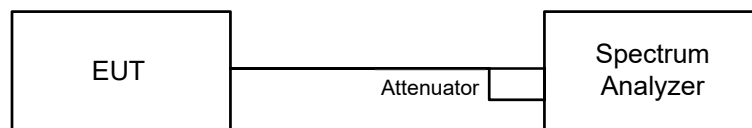


6.2.2 Test Procedure

- a. Set analyzer center frequency to DTS channel center frequency.
- b. Set the span to 1.5 times the DTS bandwidth.
- c. Set the RBW to: 3 kHz.
- d. Set the VBW $\geq 3 \times$ RBW.
- e. Detector = peak.
- f. Sweep time = auto couple.
- g. Trace mode = max hold.
- h. Allow trace to fully stabilize.
- i. Use the peak marker function to determine the maximum amplitude level within the RBW.

6.3 6 dB Bandwidth

6.3.1 Test Setup

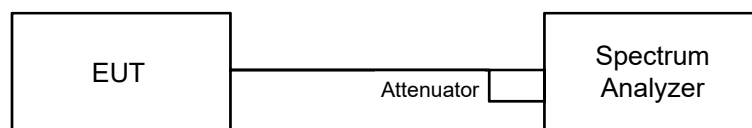


6.3.2 Test Procedure

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

6.4 Conducted Out of Band Emissions

6.4.1 Test Setup



6.4.2 Test Procedure

MEASUREMENT PROCEDURE REF

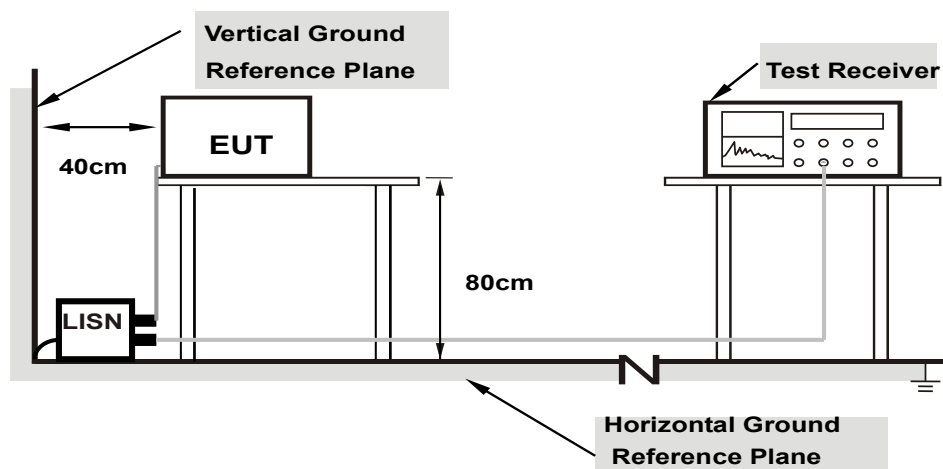
- Set the RBW = 100 kHz.
- Set the VBW ≥ 300 kHz.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

MEASUREMENT PROCEDURE OOB

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

6.5 AC Power Conducted Emissions

6.5.1 Test Setup



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

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

6.5.2 Test Procedure

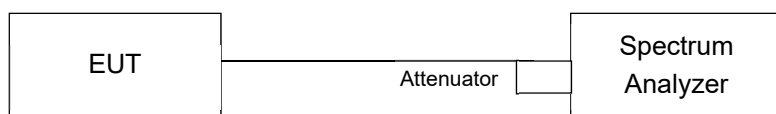
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50 uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

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

6.6 Unwanted Emissions below 1 GHz

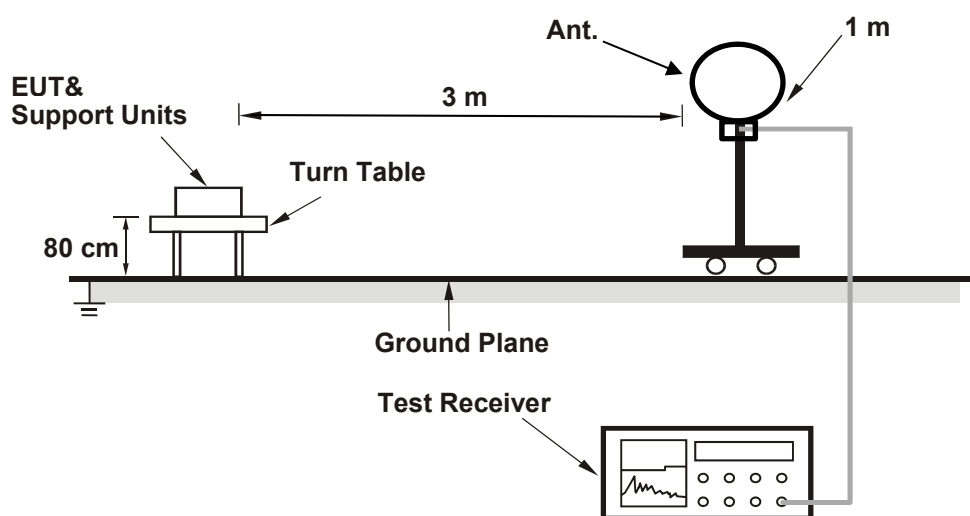
6.6.1 Test Setup

For Conducted Configuration:

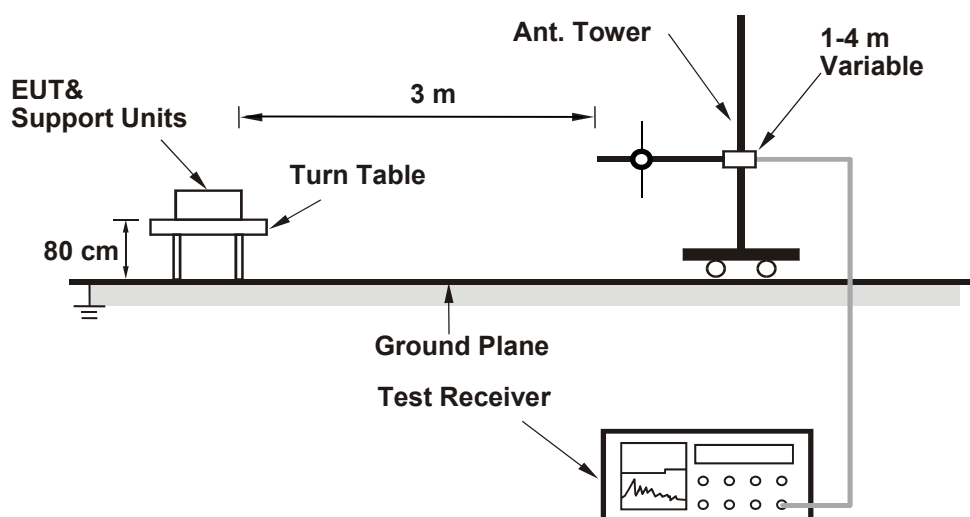


For Radiated Configuration:

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

Radiated versus Conducted Measurement.

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

The following steps was performed:

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

For Radiated emission below 30 MHz

- e-1.1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- e-1.2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- e-1.3. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- e-1.4. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e-1.5. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode, except for the frequency band (9 kHz to 90 kHz and 110 kHz to 490 kHz) set to average detect function and peak detect function.

Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 200 Hz at frequency below 150 kHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz or 10 kHz at frequency (150 kHz to 30 MHz).
3. All modes of operation were investigated and the worst-case emissions are reported.
4. KDB 414788 OATS and Chamber Correlation Justification
 - Based on FCC 15.31(f)(2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempts should be made to avoid making measurements in the near field.
 - OATs and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

For Radiated emission above 30 MHz

- e-2.1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- e-2.2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- e-2.3. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e-2.4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e-2.5. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

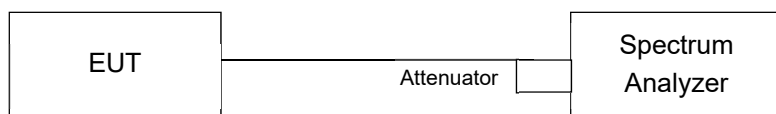
Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP), Average detection (AV), Peak detection (PK) at frequency (30MHz to 1 GHz).
2. All modes of operation were investigated and the worst-case emissions are reported.

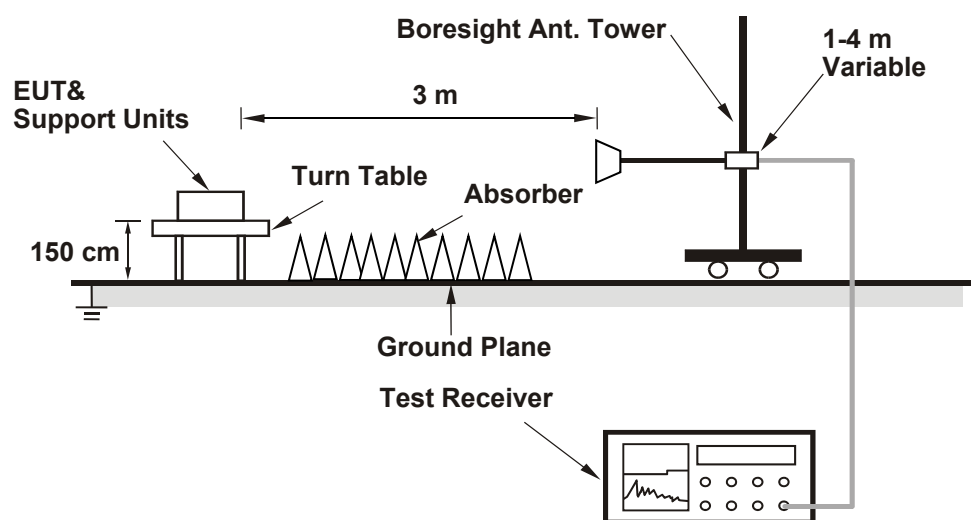
6.7 Unwanted Emissions above 1 GHz

6.7.1 Test Setup

For Conducted Configuration:



For Radiated Configuration:



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

6.7.2 Test Procedure

Radiated versus Conducted Measurement.

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

The following steps was performed:

- a. Cabinet emissions measurements. Radiated measurement was performed to ensure that cabinet emissions are below the emission limits. For the cabinet-emission measurements the antenna was replaced by a termination matching the nominal impedance of the antenna.
- b. Conducted tests was performed using equipment that matches the nominal impedance of the antenna assembly used with the EUT.
- c. EIRP calculation. A value representative of an upper bound on out-of-band antenna gain (in dBi) shall be added to the measured antenna-port conducted emission power to compute EIRP within the specified measurement bandwidth. (For emissions in the restricted bands, additional calculations are required to convert EIRP to field strength at the specified distance.) The upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands or 2 dBi, whichever is greater.
- d. EIRP adjustments for multiple outputs. (Follow the procedures specified in FCC KDB Publication 662911)
- e. For all of Radiation emission test
 - e-1. 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.
 - e-2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
 - e-3. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
 - e-4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
 - e-5. The test-receiver system was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Notes:

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

7 Test Results of Test Item

7.1 RF Output Power

2TX Mode

Input Power:	3.3 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Kevin Ko
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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	21.46	21.83	292.364	24.66	30	Pass
6	2437	21.58	21.56	287.099	24.58	30	Pass
11	2462	21.54	21.41	280.917	24.49	30	Pass
12	2467	21.57	21.23	276.288	24.41	30	Pass
13	2472	15.97	15.26	73.11	18.64	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3.53 dBi < 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	24.11	23.81	498.068	26.97	30	Pass
2	2417	24.49	24.02	533.538	27.27	30	Pass
6	2437	24.45	24.12	536.838	27.30	30	Pass
10	2457	24.35	23.75	509.408	27.07	30	Pass
11	2462	22.67	22.65	369.004	25.67	30	Pass
12	2467	19.64	19.38	178.741	22.52	30	Pass
13	2472	17.09	16.51	95.94	19.82	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3.53 dBi < 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	23.45	23.92	467.913	26.70	30	Pass
2	2417	24.21	24.05	517.73	27.14	30	Pass
6	2437	25.51	25.40	702.368	28.47	30	Pass
10	2457	24.23	23.23	475.228	26.77	30	Pass
11	2462	21.22	20.72	250.466	23.99	30	Pass
12	2467	21.21	20.58	246.417	23.92	30	Pass
13	2472	17.21	16.88	101.355	20.06	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3.53 dBi < 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	20.34	19.99	207.913	23.18	30	Pass
4	2427	20.12	20.24	208.483	23.19	30	Pass
6	2437	22.91	22.91	390.868	25.92	30	Pass
8	2447	20.39	19.96	208.479	23.19	30	Pass
9	2452	19.61	19.14	173.446	22.39	30	Pass
10	2457	16.91	16.64	95.223	19.79	30	Pass
11	2462	14.81	14.75	60.123	17.79	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3.53 dBi < 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	25.90	26.17	803.045	29.05	30	Pass
2	2417	25.49	26.09	760.441	28.81	30	Pass
6	2437	26.66	26.68	929.033	29.68	30	Pass
10	2457	26.35	25.16	759.614	28.81	30	Pass
11	2462	26.08	24.68	699.274	28.45	30	Pass
12	2467	22.28	21.48	309.649	24.91	30	Pass
13	2472	7.44	8.21	12.168	10.85	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3.53 dBi < 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	25.93	26.13	801.946	29.04	30	Pass
2	2417	25.43	26.11	757.46	28.79	30	Pass
6	2437	26.72	26.62	929.092	29.68	30	Pass
10	2457	25.54	25.61	722.011	28.59	30	Pass
11	2462	25.23	24.43	610.758	27.86	30	Pass
12	2467	24.30	23.36	485.924	26.87	30	Pass
13	2472	12.46	12.73	36.37	15.61	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3.53 dBi < 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	25.52	25.90	745.496	28.72	30	Pass
2	2417	25.98	26.38	830.788	29.19	30	Pass
6	2437	26.71	26.66	932.26	29.70	30	Pass
10	2457	26.03	25.22	733.526	28.65	30	Pass
11	2462	25.36	25.12	668.645	28.25	30	Pass
12	2467	22.26	21.69	315.838	24.99	30	Pass
13	2472	14.95	14.51	59.51	17.75	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3.53 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT20) 242-tone RU

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
6	2437	26.60	26.63	917.345	29.63	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3.53 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT40) 484-tone RU

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
6	2437	22.25	23.36	384.651	25.85	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3.53 dBi < 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				
6	2437	26.50	26.22	865.477	29.37	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3.53 dBi < 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				
6	2437	26.45	26.29	867.169	29.38	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3.53 dBi < 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	18.79	19.12	157.342	21.97
6	2437	18.86	18.93	155.076	21.91
11	2462	18.94	18.65	151.625	21.81
12	2467	18.98	18.53	150.353	21.77
13	2472	12.37	11.68	31.982	15.05

802.11g

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
1	2412	18.99	18.66	152.702	21.84
2	2417	19.26	18.91	162.137	22.10
6	2437	19.25	18.80	159.997	22.04
10	2457	18.92	18.49	148.615	21.72
11	2462	17.59	17.45	113.002	20.53
12	2467	14.36	14.10	52.994	17.24
13	2472	9.68	9.15	17.512	12.43

802.11be (EHT20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
1	2412	17.56	17.75	116.583	20.67
2	2417	18.30	18.21	133.83	21.27
6	2437	19.65	19.32	177.764	22.50
10	2457	18.30	17.47	123.455	20.92
11	2462	15.35	15.10	66.636	18.24
12	2467	14.92	14.44	58.843	17.70
13	2472	9.34	8.91	16.371	12.14

802.11be (EHT40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
3	2422	15.04	14.87	62.606	17.97
4	2427	15.03	14.84	62.321	17.95
6	2437	17.78	17.93	122.066	20.87
8	2447	15.31	14.95	65.223	18.14
9	2452	14.58	14.26	55.376	17.43
10	2457	11.85	11.68	30.034	14.78
11	2462	6.69	6.67	9.312	9.69

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	18.37	18.53	139.992	21.46
2	2417	18.22	18.47	136.682	21.36
6	2437	19.55	19.32	175.664	22.45
10	2457	19.09	17.69	139.845	21.46
11	2462	18.02	17.43	118.722	20.75
12	2467	14.54	14.00	53.563	17.29
13	2472	0.90	0.41	2.329	3.67

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	18.26	18.47	137.296	21.38
2	2417	18.09	18.38	133.282	21.25
6	2437	19.46	19.34	174.209	22.41
10	2457	17.36	17.03	104.916	20.21
11	2462	16.71	16.46	91.14	19.60
12	2467	14.62	14.37	56.326	17.51
13	2472	3.12	2.74	3.93	5.94

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	18.43	18.62	142.441	21.54
2	2417	18.75	19.10	156.272	21.94
6	2437	19.60	19.27	175.729	22.45
10	2457	18.60	17.61	130.12	21.14
11	2462	17.63	17.52	114.437	20.59
12	2467	14.63	14.17	55.162	17.42
13	2472	5.87	5.21	7.183	8.56

802.11be (EHT20) 242-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
6	2437	19.47	19.32	174.018	22.41

802.11be (EHT40) 484-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
6	2437	17.72	17.87	120.391	20.81

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		
6	2437	19.44	19.37	174.399	22.42

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		
6	2437	19.51	19.40	176.427	22.47

1TX Mode

Input Power:	3.3 Vdc	Environmental Conditions:	25°C, 62% RH	Tested By:	Eric Peng
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For Peak Power

802.11b

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
1	2412	178.238	22.51	30	Pass
6	2437	192.752	22.85	30	Pass
11	2462	187.068	22.72	30	Pass
12	2467	183.654	22.64	30	Pass
13	2472	80.168	19.04	30	Pass

Note: The antenna gain is 3.53 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	333.426	25.23	30	Pass
2	2417	329.61	25.18	30	Pass
6	2437	353.997	25.49	30	Pass
10	2457	331.131	25.20	30	Pass
11	2462	328.095	25.16	30	Pass
12	2467	243.781	23.87	30	Pass
13	2472	71.121	18.52	30	Pass

Note: The antenna gain is 3.53 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	378.443	25.78	30	Pass
2	2417	365.595	25.63	30	Pass
6	2437	385.478	25.86	30	Pass
10	2457	368.129	25.66	30	Pass
11	2462	323.594	25.10	30	Pass
12	2467	264.85	24.23	30	Pass
13	2472	76.913	18.86	30	Pass

Note: The antenna gain is 3.53 dBi < 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	203.236	23.08	30	Pass
4	2427	209.411	23.21	30	Pass
6	2437	231.206	23.64	30	Pass
8	2447	240.991	23.82	30	Pass
9	2452	233.346	23.68	30	Pass
10	2457	114.551	20.59	30	Pass
11	2462	35.156	15.46	30	Pass

Note: The antenna gain is 3.53 dBi < 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	432.514	26.36	30	Pass
2	2417	417.83	26.21	30	Pass
6	2437	494.311	26.94	30	Pass
10	2457	441.57	26.45	30	Pass
11	2462	428.549	26.32	30	Pass
12	2467	277.332	24.43	30	Pass
13	2472	13.428	11.28	30	Pass

Note: The antenna gain is 3.53 dBi < 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	422.669	26.26	30	Pass
2	2417	426.58	26.30	30	Pass
6	2437	473.151	26.75	30	Pass
10	2457	433.511	26.37	30	Pass
11	2462	412.098	26.15	30	Pass
12	2467	313.329	24.96	30	Pass
13	2472	24.946	13.97	30	Pass

Note: The antenna gain is 3.53 dBi < 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	437.522	26.41	30	Pass
2	2417	441.57	26.45	30	Pass
6	2437	508.159	27.06	30	Pass
10	2457	483.059	26.84	30	Pass
11	2462	447.713	26.51	30	Pass
12	2467	280.543	24.48	30	Pass
13	2472	43.551	16.39	30	Pass

Note: The antenna gain is 3.53 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT20) 242-tone RU

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
6	2437	481.948	26.83	30	Pass

Note: The antenna gain is 3.53 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT40) 484-tone RU

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
6	2437	461.318	26.64	30	Pass

Note: The antenna gain is 3.53 dBi < 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
6	2437	420.727	26.24	30	Pass

Note: The antenna gain is 3.53 dBi < 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
6	2437	463.447	26.66	30	Pass

Note: The antenna gain is 3.53 dBi < 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	96.161	19.83
6	2437	101.158	20.05
11	2462	100.231	20.01
12	2467	99.541	19.98
13	2472	35.727	15.53

802.11g

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
1	2412	95.94	19.82
2	2417	95.28	19.79
6	2437	98.175	19.92
10	2457	95.719	19.81
11	2462	95.499	19.80
12	2467	66.222	18.21
13	2472	19.679	12.94

802.11be (EHT20)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
1	2412	97.949	19.91
2	2417	97.051	19.87
6	2437	98.628	19.94
10	2457	97.275	19.88
11	2462	84.528	19.27
12	2467	66.527	18.23
13	2472	18.621	12.70

802.11be (EHT40)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
3	2422	61.66	17.90
4	2427	63.096	18.00
6	2437	69.024	18.39
8	2447	70.958	18.51
9	2452	71.45	18.54
10	2457	35.318	15.48
11	2462	10.544	10.23

802.11be (EHT20) 26-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
1	2412	78.524	18.95
2	2417	76.208	18.82
6	2437	96.161	19.83
10	2457	88.512	19.47
11	2462	80.91	19.08
12	2467	55.719	17.46
13	2472	2.897	4.62

802.11be (EHT20) 52-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
1	2412	74.302	18.71
2	2417	72.611	18.61
6	2437	91.411	19.61
10	2457	76.384	18.83
11	2462	73.282	18.65
12	2467	55.847	17.47
13	2472	4.55	6.58

802.11be (EHT20) 106-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
1	2412	83.176	19.20
2	2417	82.604	19.17
6	2437	94.189	19.74
10	2457	92.897	19.68
11	2462	89.536	19.52
12	2467	57.412	17.59
13	2472	8.453	9.27

802.11be (EHT20) 242-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
6	2437	97.275	19.88

802.11be (EHT40) 484-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
6	2437	92.897	19.68

802.11be (EHT20) 52+26-tone MRU

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
6	2437	86.298	19.36

802.11be (EHT20) 106+26-tone MRU

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
6	2437	92.897	19.68

7.2 Power Spectral Density

2TX Mode

Input Power:	3.3 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Kevin Ko
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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	-3.36	-4.84	-1.03	7.46	Pass
6	2437	-4.07	-3.67	-0.85	7.46	Pass
11	2462	-3.01	-2.71	0.15	7.46	Pass
12	2467	-4.04	-4.92	-1.45	7.46	Pass
13	2472	-11.49	-12.37	-8.90	7.46	Pass

Notes:

- Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
- Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
- The directional gain is 6.54 dBi > 6 dBi, so the power density limit shall be reduced to $8 - (6.54 - 6) = 7.46$ 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	-7.04	-7.06	-4.04	7.46	Pass
2	2417	-5.76	-5.50	-2.62	7.46	Pass
6	2437	-5.36	-5.50	-2.42	7.46	Pass
10	2457	-6.84	-6.61	-3.71	7.46	Pass
11	2462	-7.33	-6.25	-3.75	7.46	Pass
12	2467	-10.64	-10.75	-7.68	7.46	Pass
13	2472	-15.95	-16.54	-13.22	7.46	Pass

Notes:

- Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
- Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
- The directional gain is 6.54 dBi > 6 dBi, so the power density limit shall be reduced to $8 - (6.54 - 6) = 7.46$ 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	-7.22	-7.14	-4.17	7.46	Pass
2	2417	-6.43	-5.66	-3.02	7.46	Pass
6	2437	-5.57	-6.05	-2.79	7.46	Pass
10	2457	-6.29	-6.62	-3.44	7.46	Pass
11	2462	-9.46	-9.52	-6.48	7.46	Pass
12	2467	-8.60	-10.12	-6.28	7.46	Pass
13	2472	-15.96	-16.57	-13.24	7.46	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 6.54 dBi > 6 dBi, so the power density limit shall be reduced to $8-(6.54-6) = 7.46$ 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	-12.79	-12.67	-9.72	7.46	Pass
4	2427	-12.70	-12.46	-9.57	7.46	Pass
6	2437	-9.76	-9.61	-6.67	7.46	Pass
8	2447	-13.19	-13.11	-10.14	7.46	Pass
9	2452	-12.96	-13.28	-10.11	7.46	Pass
10	2457	-15.63	-14.90	-12.24	7.46	Pass
11	2462	-21.40	-20.65	-18.00	7.46	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 6.54 dBi > 6 dBi, so the power density limit shall be reduced to $8-(6.54-6) = 7.46$ 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	2.36	2.36	5.37	7.46	Pass
2	2417	1.45	2.11	4.80	7.46	Pass
6	2437	2.66	2.72	5.70	7.46	Pass
10	2457	1.90	1.55	4.74	7.46	Pass
11	2462	1.29	0.81	4.07	7.46	Pass
12	2467	-2.17	-6.59	-0.83	7.46	Pass
13	2472	-15.54	-16.60	-13.03	7.46	Pass

Notes:

- Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
- Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
- The directional gain is 6.54 dBi > 6 dBi, so the power density limit shall be reduced to $8-(6.54-6) = 7.46$ 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	0.72	0.66	3.70	7.46	Pass
2	2417	-0.40	0.70	3.20	7.46	Pass
6	2437	0.66	0.47	3.58	7.46	Pass
10	2457	-0.76	-1.49	1.90	7.46	Pass
11	2462	-1.81	-1.63	1.29	7.46	Pass
12	2467	-3.68	-4.30	-0.97	7.46	Pass
13	2472	-15.07	-15.38	-12.21	7.46	Pass

Notes:

- Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
- Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
- The directional gain is 6.54 dBi > 6 dBi, so the power density limit shall be reduced to $8-(6.54-6) = 7.46$ 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	-2.62	-2.47	0.47	7.46	Pass
2	2417	-1.83	-1.11	1.56	7.46	Pass
6	2437	-1.34	-2.07	1.32	7.46	Pass
10	2457	-1.91	-2.70	0.72	7.46	Pass
11	2462	-2.63	-2.62	0.39	7.46	Pass
12	2467	-5.85	-5.78	-2.80	7.46	Pass
13	2472	-15.64	-15.23	-12.42	7.46	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 6.54 dBi > 6 dBi, so the power density limit shall be reduced to $8-(6.54-6) = 7.46$ dBm/3kHz.

802.11be (EHT20) 242-tone RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1			
6	2437	-6.82	-6.59	-3.69	7.46	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 6.54 dBi > 6 dBi, so the power density limit shall be reduced to $8-(6.54-6) = 7.46$ dBm/3kHz.

802.11be (EHT40) 484-tone RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1			
6	2437	-9.61	-9.95	-6.77	7.46	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 6.54 dBi > 6 dBi, so the power density limit shall be reduced to $8-(6.54-6) = 7.46$ 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			
6	2437	-1.46	-0.53	2.04	7.46	Pass

Notes:

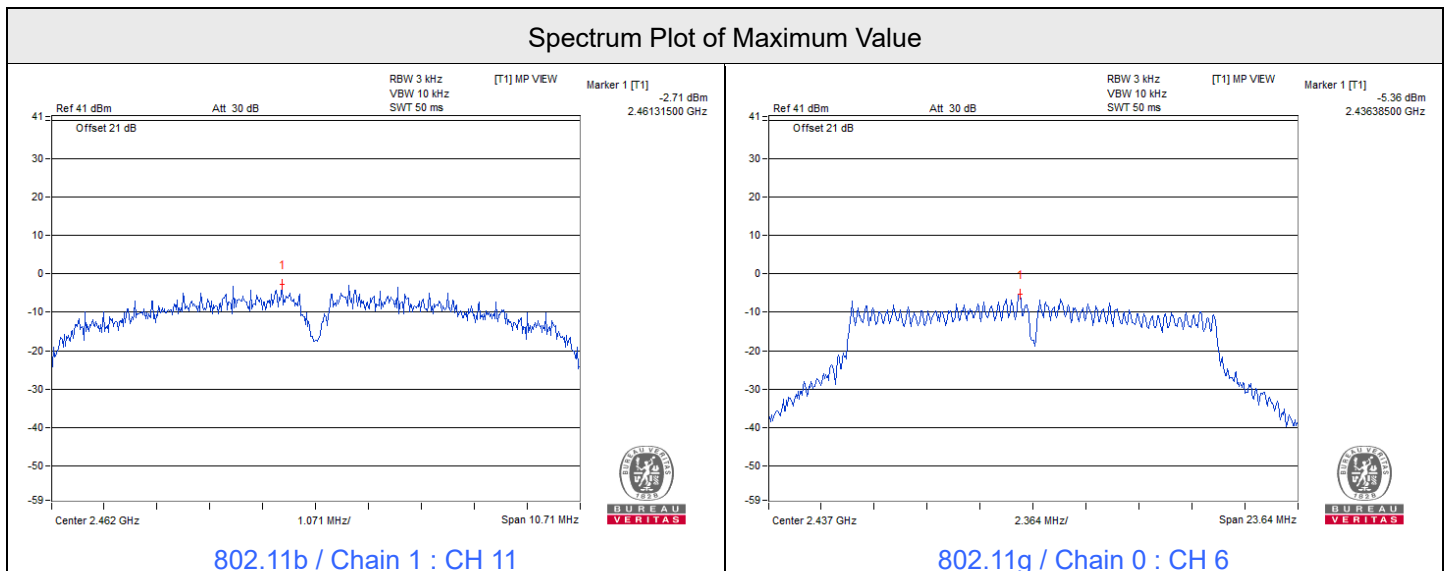
1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. The directional gain is 6.54 dBi > 6 dBi, so the power density limit shall be reduced to $8-(6.54-6) = 7.46$ dBm/3kHz.

802.11be (EHT20) 106+26-tone MRU

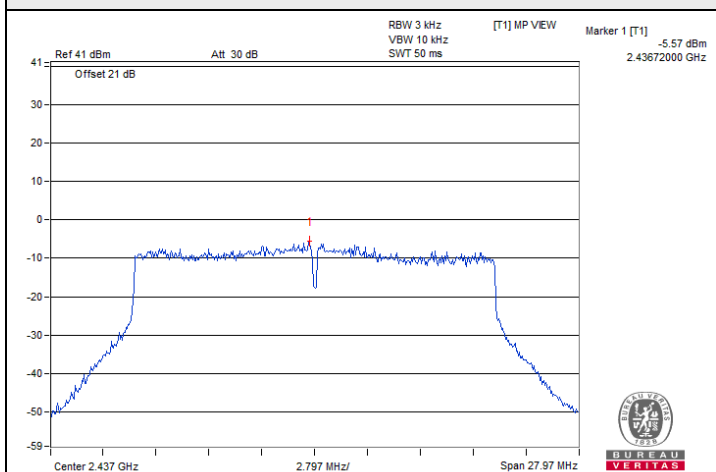
Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1			
6	2437	-3.47	-2.45	0.08	7.46	Pass

Notes:

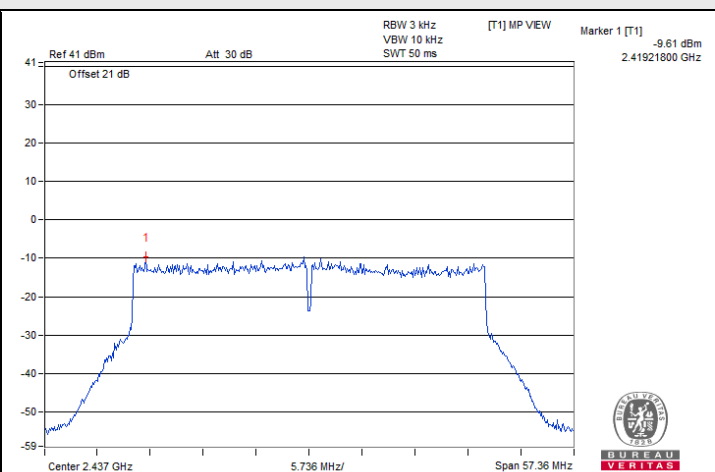
1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. The directional gain is 6.54 dBi > 6 dBi, so the power density limit shall be reduced to $8-(6.54-6) = 7.46$ dBm/3kHz.



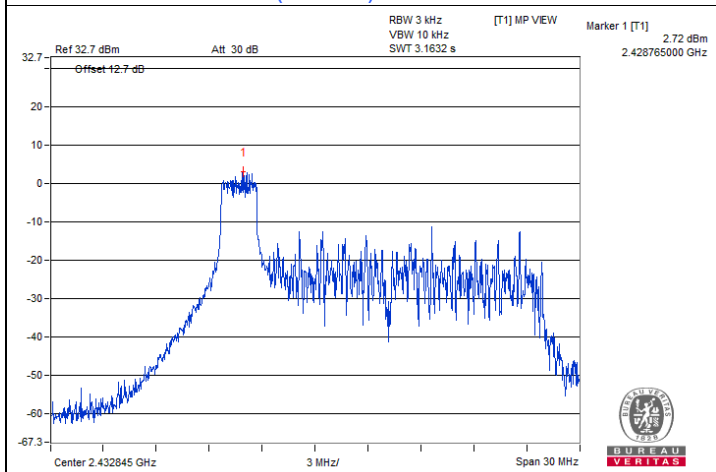
Spectrum Plot of Maximum Value



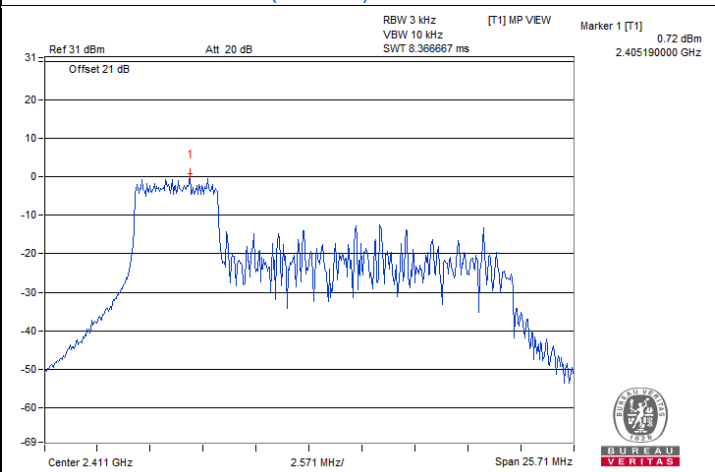
802.11be (EHT20) / Chain 0 : CH 6



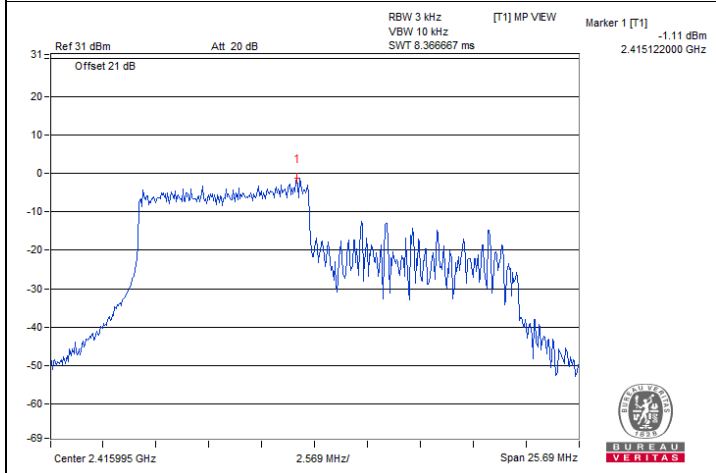
802.11be (EHT40) / Chain 1 : CH 6



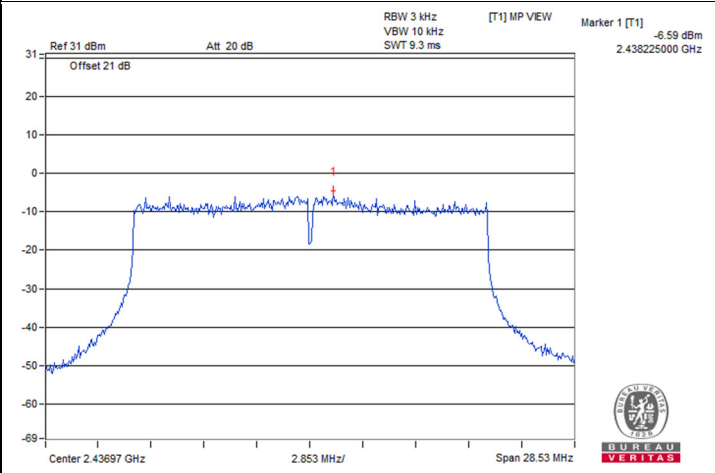
802.11be (EHT20) 26-tone RU / Chain 1 : CH 6



802.11be (EHT20) 52-tone RU / Chain 0 : CH 1

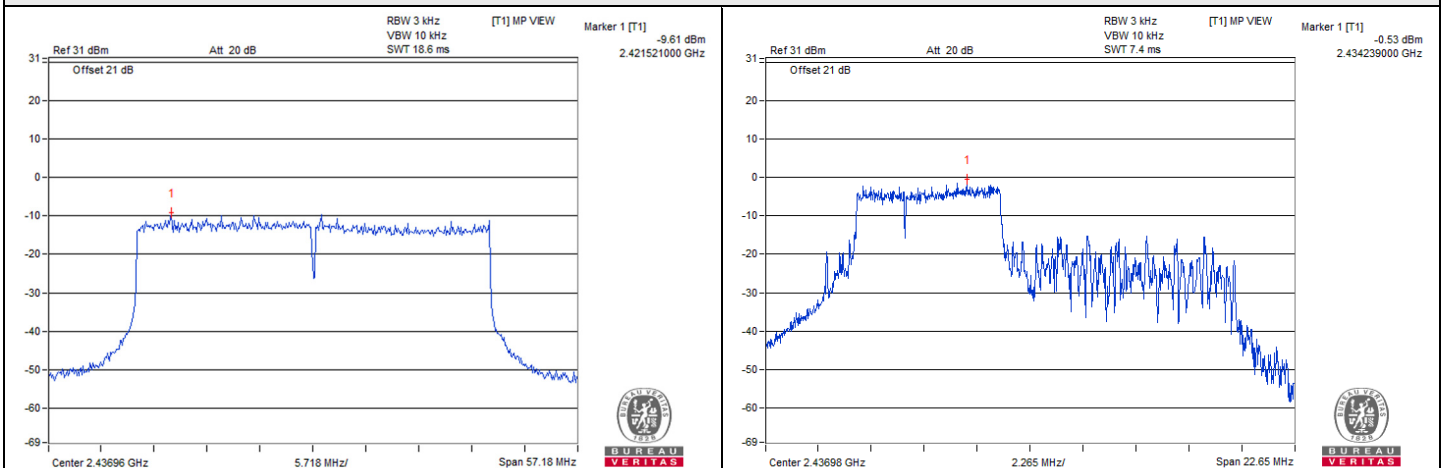


802.11be (EHT20) 106-tone RU / Chain 1 : CH 2



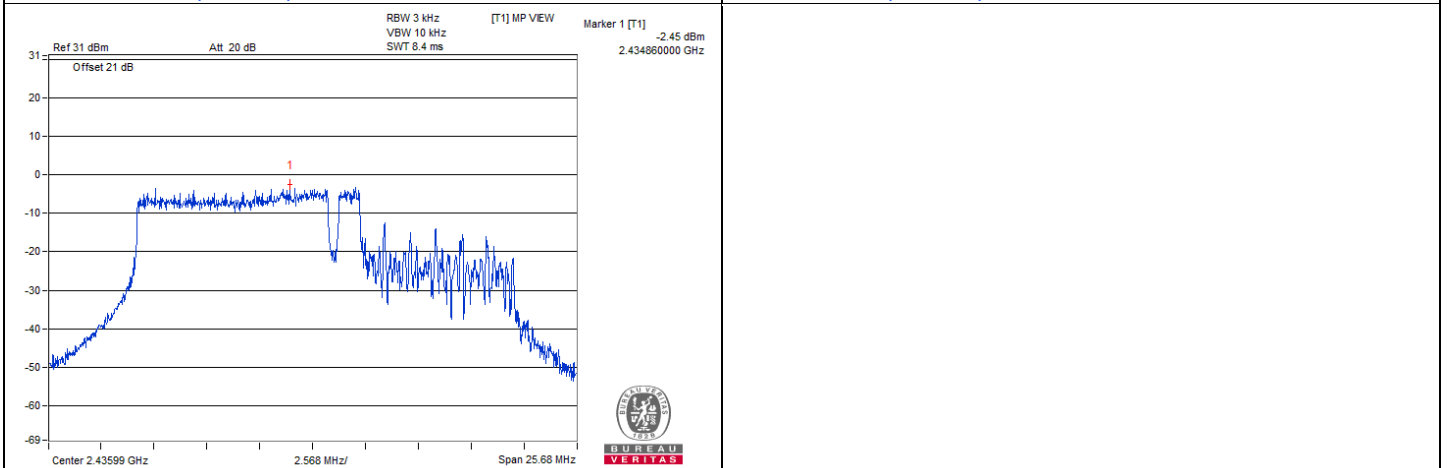
802.11be (EHT20) 242-tone RU / Chain 1 : CH 6

Spectrum Plot of Maximum Value



802.11be (EHT40) 484-tone RU / Chain 0 : CH 6

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



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

1TX Mode

Input Power:	3.3 Vdc	Environmental Conditions:	25°C, 62% RH	Tested By:	Eric Peng
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802.11b

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
1	2412	-0.39	8	Pass
6	2437	-0.88	8	Pass
11	2462	0.86	8	Pass
12	2467	-0.50	8	Pass
13	2472	-6.25	8	Pass

Note: The antenna gain is 3.53 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	-3.67	8	Pass
2	2417	-3.17	8	Pass
6	2437	-4.39	8	Pass
10	2457	-3.78	8	Pass
11	2462	-2.81	8	Pass
12	2467	-4.52	8	Pass
13	2472	-11.17	8	Pass

Note: The antenna gain is 3.53 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	-3.85	8	Pass
2	2417	-3.99	8	Pass
6	2437	-3.66	8	Pass
10	2457	-4.08	8	Pass
11	2462	-5.50	8	Pass
12	2467	-6.29	8	Pass
13	2472	-12.02	8	Pass

Note: The antenna gain is 3.53 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	-9.31	8	Pass
4	2427	-9.71	8	Pass
6	2437	-9.25	8	Pass
8	2447	-10.30	8	Pass
9	2452	-9.31	8	Pass
10	2457	-11.77	8	Pass
11	2462	-17.43	8	Pass

Note: The antenna gain is 3.53 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	3.11	8	Pass
2	2417	3.41	8	Pass
6	2437	-11.03	8	Pass
10	2457	-11.06	8	Pass
11	2462	3.21	8	Pass
12	2467	2.12	8	Pass
13	2472	-11.29	8	Pass

Note: The antenna gain is 3.53 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	0.11	8	Pass
2	2417	-0.35	8	Pass
6	2437	0.11	8	Pass
10	2457	-0.25	8	Pass
11	2462	-0.57	8	Pass
12	2467	-2.01	8	Pass
13	2472	-12.26	8	Pass

Note: The antenna gain is 3.53 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	-1.52	8	Pass
2	2417	-1.83	8	Pass
6	2437	-1.11	8	Pass
10	2457	-0.98	8	Pass
11	2462	-0.48	8	Pass
12	2467	-2.65	8	Pass
13	2472	-12.97	8	Pass

Note: The antenna gain is 3.53 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11be (EHT20) 242-tone RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
6	2437	-4.76	8	Pass

Note: The antenna gain is 3.53 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11be (EHT40) 484-tone RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
6	2437	-9.27	8	Pass

Note: The antenna gain is 3.53 dBi < 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
6	2437	-0.94	8	Pass

Note: The antenna gain is 3.53 dBi < 6 dBi, so the power density limit shall not be reduced.

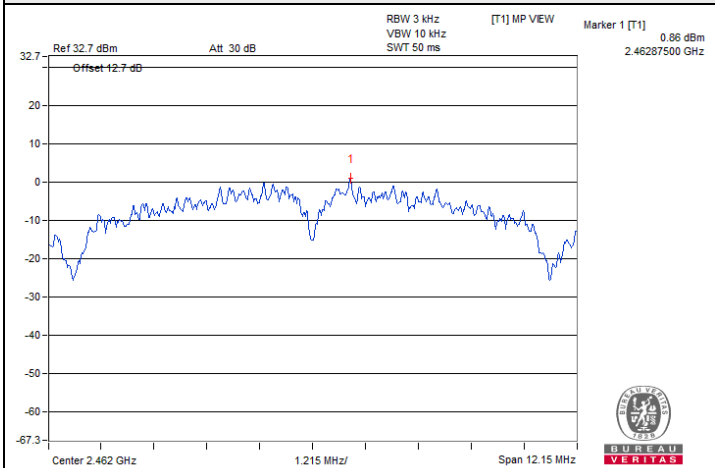
802.11be (EHT20) 106+26-tone MRU

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
6	2437	-1.76	8	Pass

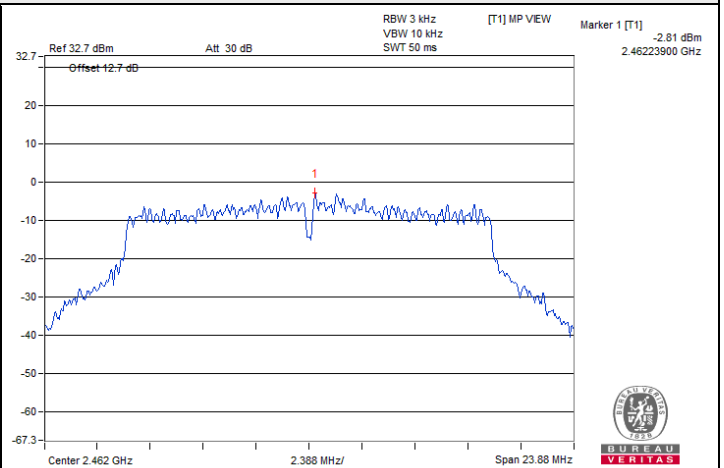
Note: The antenna gain is 3.53 dBi < 6 dBi, so the power density limit shall not be reduced.



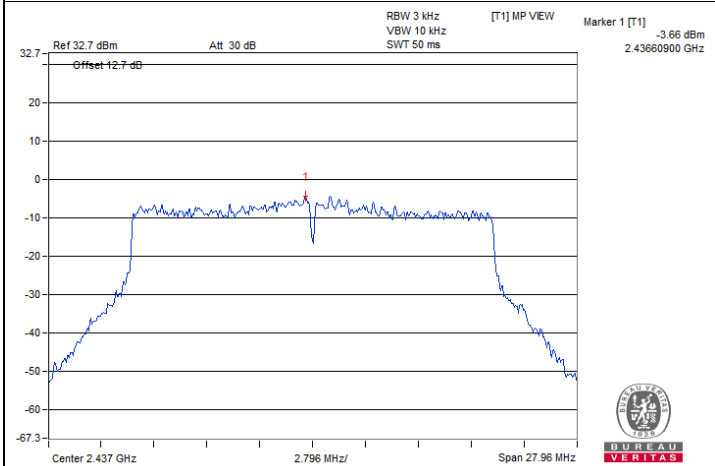
Spectrum Plot of Maximum Value



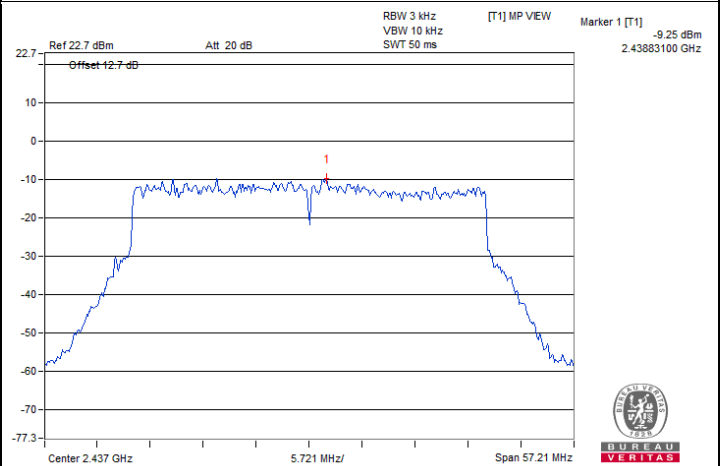
802.11b : CH 11



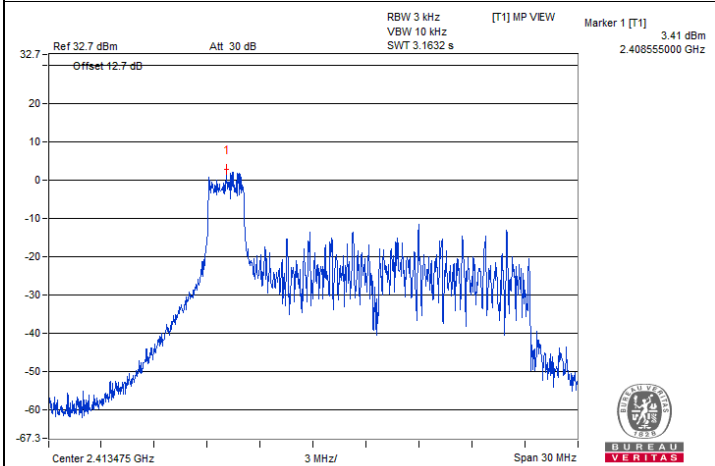
802.11g : CH 11



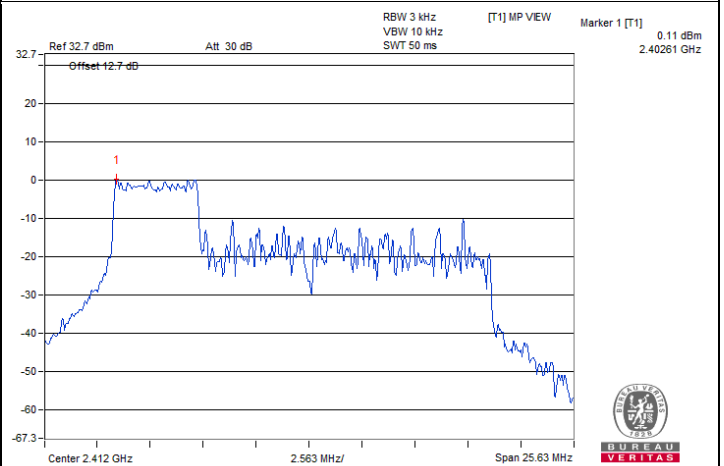
802.11be (EHT20) : CH 6



802.11be (EHT40) : CH 6

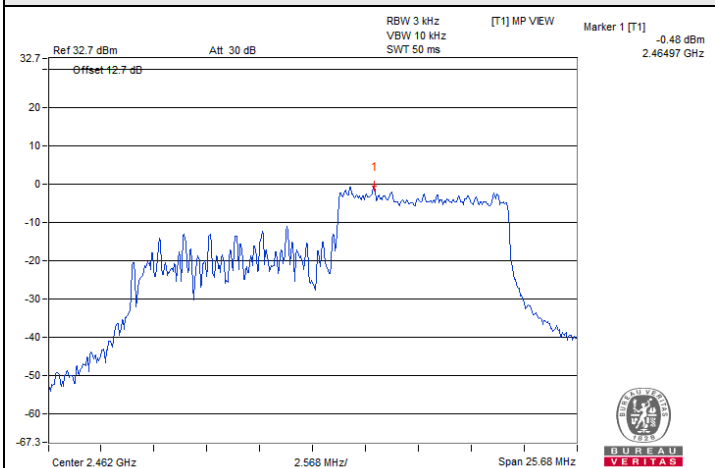


802.11be (EHT20) 26-tone RU : CH 2@0

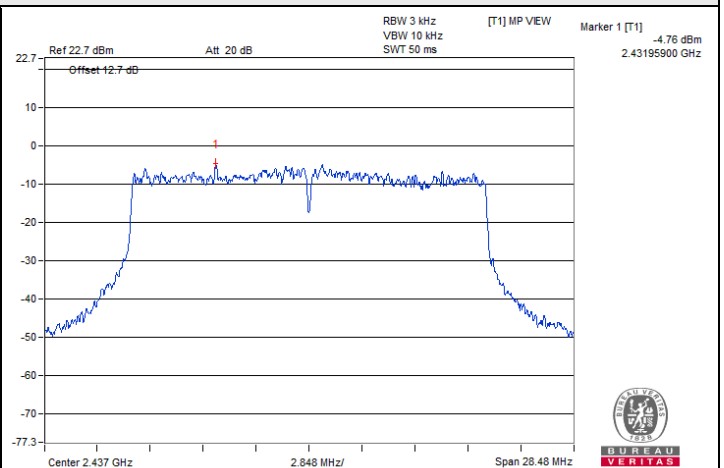


802.11be (EHT20) 52-tone RU : CH 1@37

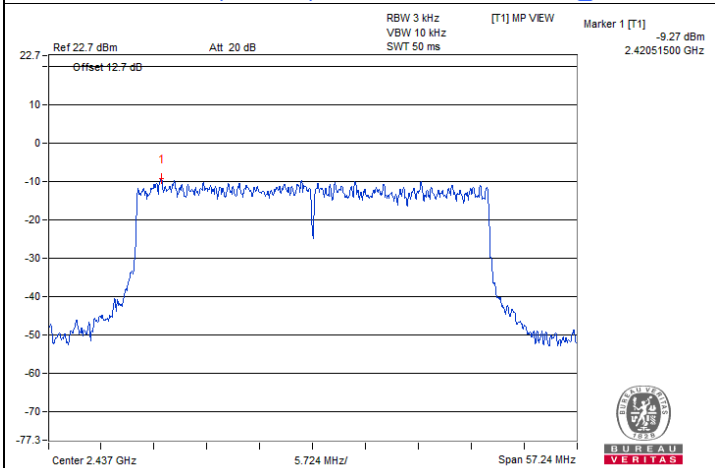
Spectrum Plot of Maximum Value



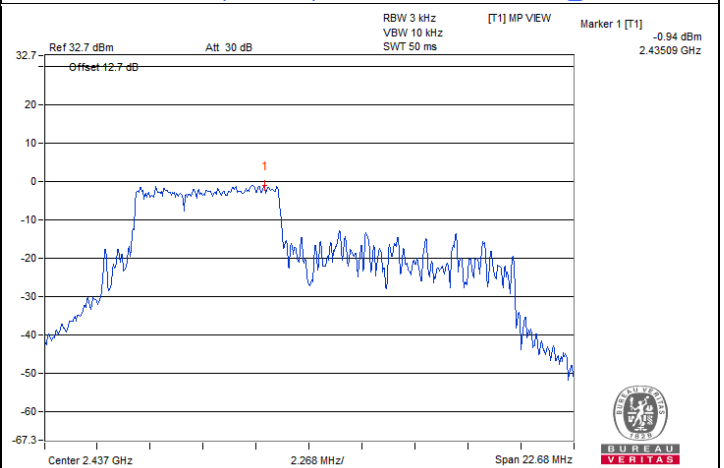
802.11be (EHT20) 106-tone RU : CH 11@54



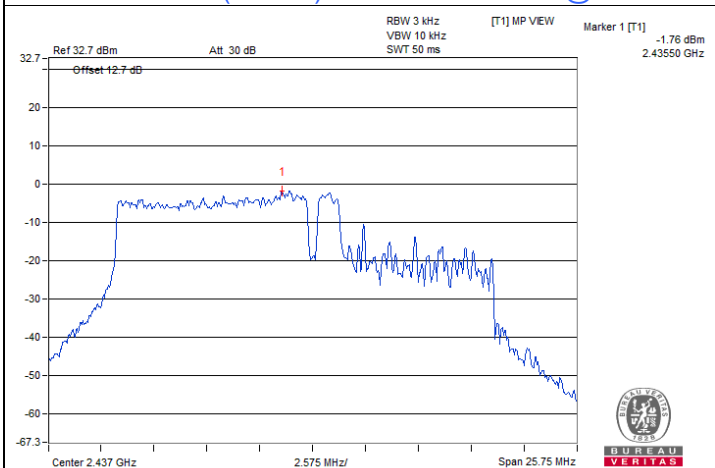
802.11be (EHT20) 242-tone RU : CH 6@61



802.11be (EHT40) 484-tone RU : CH 6@65



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



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

7.3 6 dB Bandwidth

2TX Mode

Input Power:	3.3 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Kevin Ko
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802.11b

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	8.09	8.09	0.5	Pass
6	2437	8.08	8.08	0.5	Pass
11	2462	7.16	7.14	0.5	Pass
12	2467	7.63	7.14	0.5	Pass
13	2472	9.08	9.11	0.5	Pass

802.11g

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	15.95	15.91	0.5	Pass
2	2417	15.94	16.28	0.5	Pass
6	2437	15.76	16.35	0.5	Pass
10	2457	15.96	15.50	0.5	Pass
11	2462	15.78	16.28	0.5	Pass
12	2467	15.39	15.75	0.5	Pass
13	2472	16.32	16.37	0.5	Pass

802.11be (EHT20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	18.76	18.81	0.5	Pass
2	2417	18.69	18.65	0.5	Pass
6	2437	18.65	18.88	0.5	Pass
10	2457	18.49	18.62	0.5	Pass
11	2462	18.62	18.71	0.5	Pass
12	2467	18.65	18.79	0.5	Pass
13	2472	18.87	18.89	0.5	Pass

802.11be (EHT40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
3	2422	37.57	37.26	0.5	Pass
4	2427	37.63	37.24	0.5	Pass
6	2437	38.09	38.24	0.5	Pass
8	2447	38.32	38.24	0.5	Pass
9	2452	38.10	38.32	0.5	Pass
10	2457	38.15	37.63	0.5	Pass
11	2462	38.08	37.95	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	12.05	17.07	0.5	Pass
2	2417	12.08	17.07	0.5	Pass
6	2437	8.32	8.31	0.5	Pass
10	2457	10.85	10.83	0.5	Pass
11	2462	10.81	12.08	0.5	Pass
12	2467	10.85	16.87	0.5	Pass
13	2472	15.82	2.12	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	17.12	0.5	Pass
2	2417	17.10	17.12	0.5	Pass
6	2437	17.09	17.10	0.5	Pass
10	2457	12.09	17.02	0.5	Pass
11	2462	15.82	17.03	0.5	Pass
12	2467	14.53	14.60	0.5	Pass
13	2472	17.08	17.09	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	17.13	17.13	0.5	Pass
2	2417	17.13	17.13	0.5	Pass
6	2437	17.15	17.16	0.5	Pass
10	2457	17.17	17.13	0.5	Pass
11	2462	17.14	17.13	0.5	Pass
12	2467	15.81	17.15	0.5	Pass
13	2472	17.39	18.36	0.5	Pass

802.11be (EHT20) 242-tone RU

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
6	2437	18.72	19.02	0.5	Pass

802.11be (EHT40) 484-tone RU

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
6	2437	38.12	38.14	0.5	Pass

802.11be (EHT20) 52+26-tone MRU

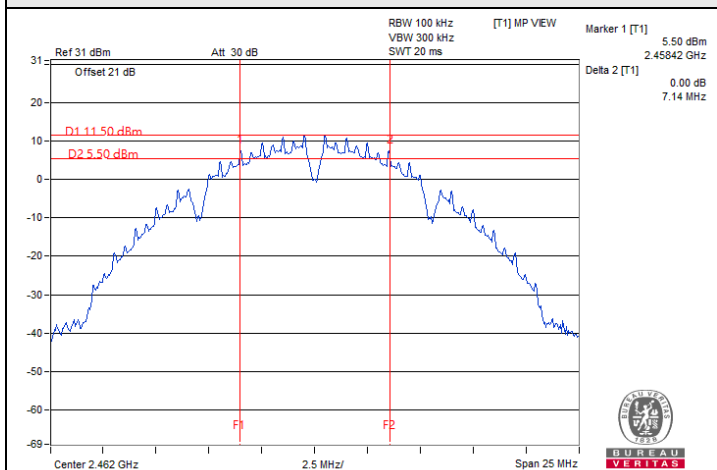
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
6	2437	15.11	15.10	0.5	Pass

802.11be (EHT20) 106+26-tone MRU

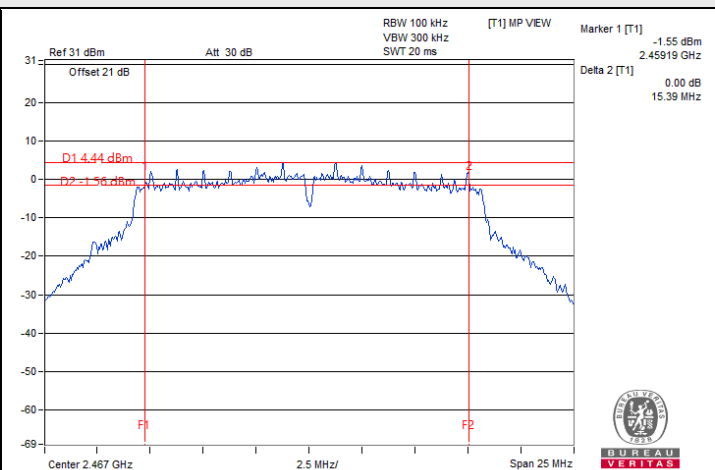
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
6	2437	17.16	17.12	0.5	Pass



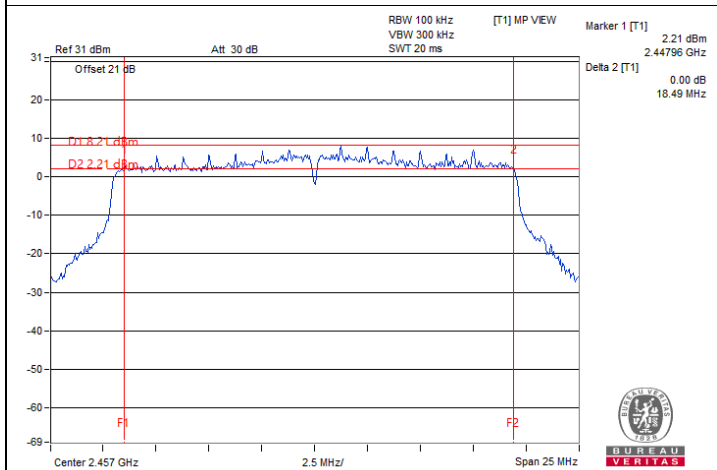
Spectrum Plot of Minimum Value



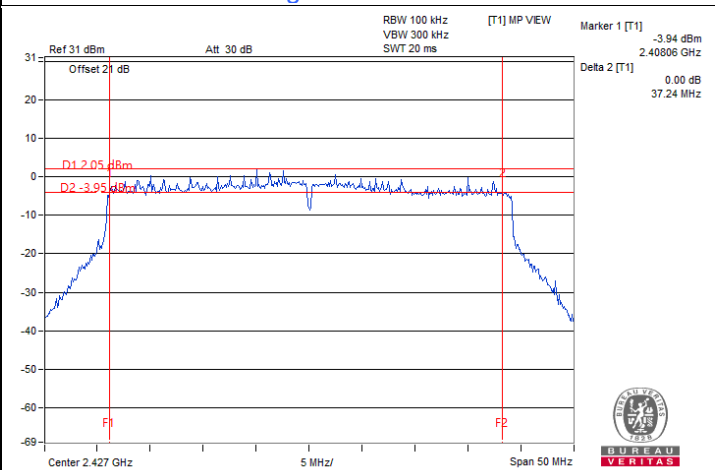
802.11b / Chain 1 : CH 11



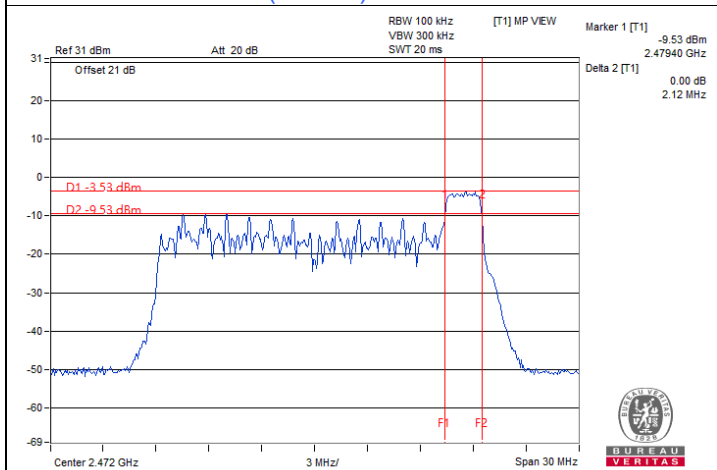
802.11g / Chain 0 : CH 12



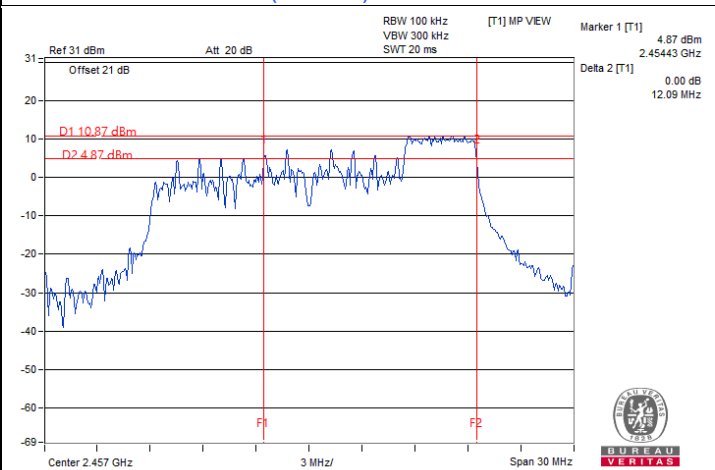
802.11be (EHT20) / Chain 0 : CH 10



802.11be (EHT40) / Chain 1 : CH 4

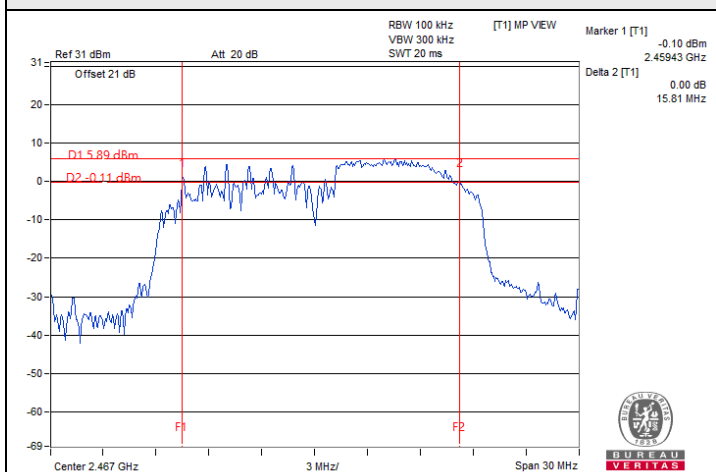


802.11be (EHT20) 26-tone RU / Chain 1 : CH 13

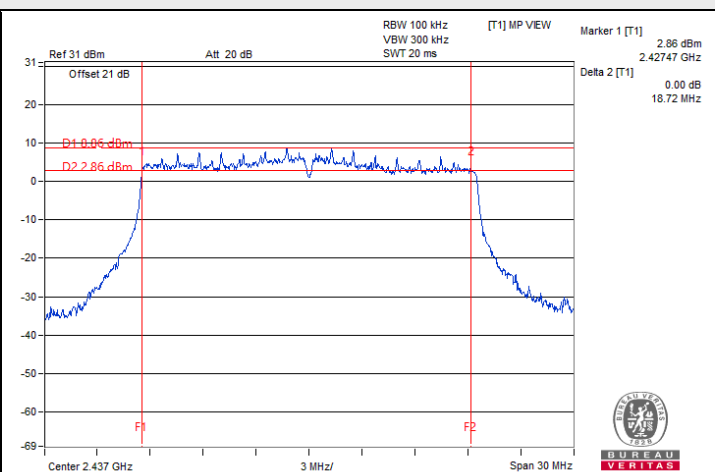


802.11be (EHT20) 52-tone RU / Chain 0 : CH 10

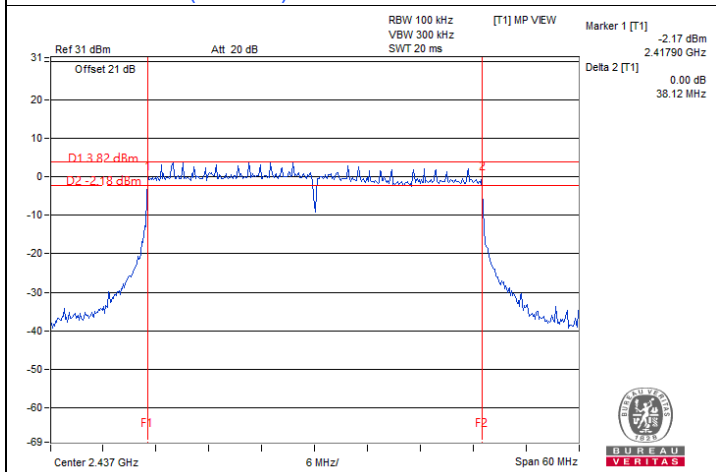
Spectrum Plot of Minimum Value



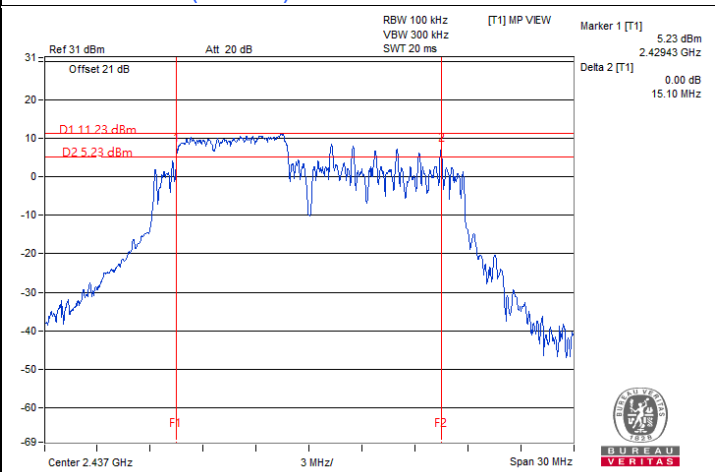
802.11be (EHT20) 106-tone RU / Chain 0 : CH 12



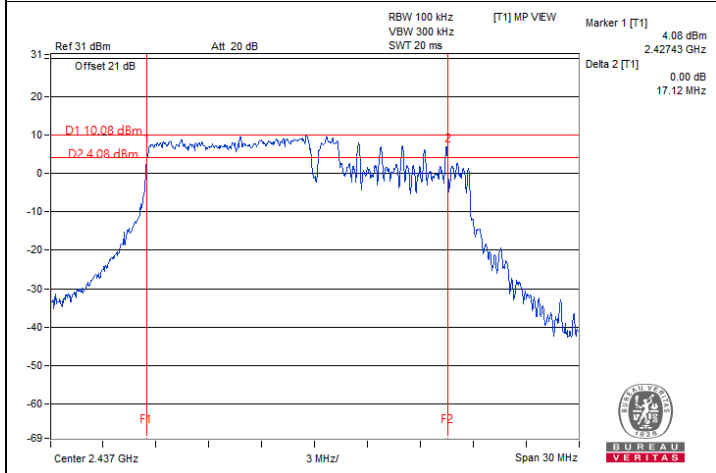
802.11be (EHT20) 242-tone RU / Chain 0 : CH 6



802.11be (EHT40) 484-tone RU / Chain 0 : CH 6



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



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

1TX Mode

Input Power:	3.3 Vdc	Environmental Conditions:	25°C, 62% RH	Tested By:	Eric Peng
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802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2412	8.06	0.5	Pass
6	2437	8.07	0.5	Pass
11	2462	8.1	0.5	Pass
12	2467	8.08	0.5	Pass
13	2472	9.09	0.5	Pass

802.11g

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2412	15.94	0.5	Pass
2	2417	15.65	0.5	Pass
6	2437	16.08	0.5	Pass
10	2457	16.06	0.5	Pass
11	2462	15.92	0.5	Pass
12	2467	15.41	0.5	Pass
13	2472	16.34	0.5	Pass

802.11be (EHT20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2412	18.79	0.5	Pass
2	2417	18.45	0.5	Pass
6	2437	18.64	0.5	Pass
10	2457	18.89	0.5	Pass
11	2462	18.8	0.5	Pass
12	2467	18.61	0.5	Pass
13	2472	18.93	0.5	Pass

802.11be (EHT40)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
3	2422	37.81	0.5	Pass
4	2427	38.02	0.5	Pass
6	2437	38.14	0.5	Pass
8	2447	38.17	0.5	Pass
9	2452	38.13	0.5	Pass
10	2457	38.02	0.5	Pass
11	2462	38.08	0.5	Pass

802.11be (EHT20) 26-tone RU

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2412	12.02	0.5	Pass
2	2417	12.07	0.5	Pass
6	2437	2.12	0.5	Pass
10	2457	2.13	0.5	Pass
11	2462	10.84	0.5	Pass
12	2467	10.86	0.5	Pass
13	2472	15.79	0.5	Pass

802.11be (EHT20) 52-tone RU

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2412	17.09	0.5	Pass
2	2417	17.08	0.5	Pass
6	2437	17.07	0.5	Pass
10	2457	17.03	0.5	Pass
11	2462	17.07	0.5	Pass
12	2467	17.06	0.5	Pass
13	2472	17.07	0.5	Pass

802.11be (EHT20) 106-tone RU

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2412	18.34	0.5	Pass
2	2417	17.16	0.5	Pass
6	2437	17.16	0.5	Pass
10	2457	17.14	0.5	Pass
11	2462	17.12	0.5	Pass
12	2467	17.11	0.5	Pass
13	2472	18.35	0.5	Pass

802.11be (EHT20) 242-tone RU

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
6	2437	18.99	0.5	Pass

802.11be (EHT40) 484-tone RU

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
6	2437	38.16	0.5	Pass

802.11be (EHT20) 52+26-tone MRU

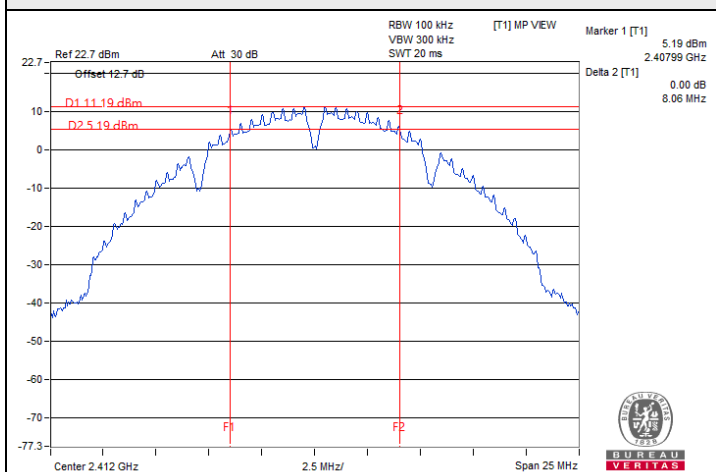
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
6	2437	15.12	0.5	Pass

802.11be (EHT20) 106+26-tone MRU

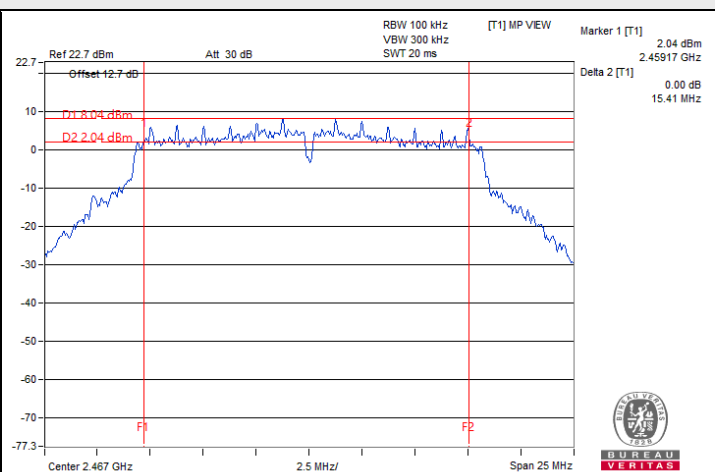
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
6	2437	17.17	0.5	Pass



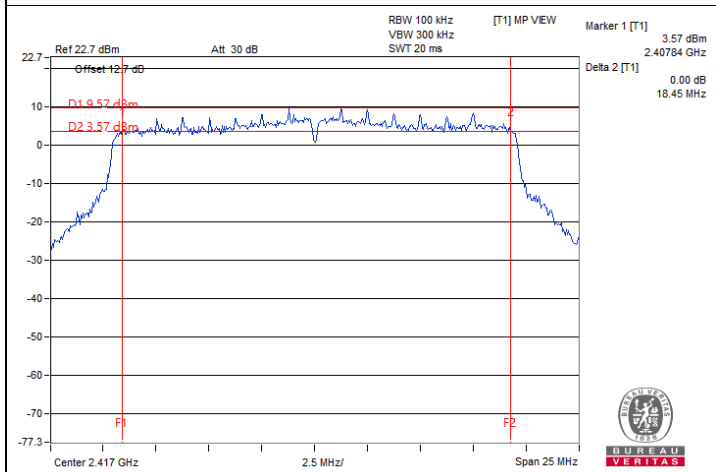
Spectrum Plot of Minimum Value



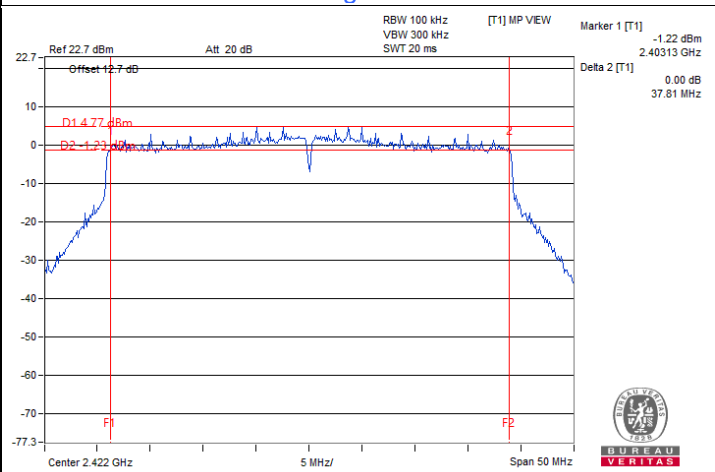
802.11b : CH 1



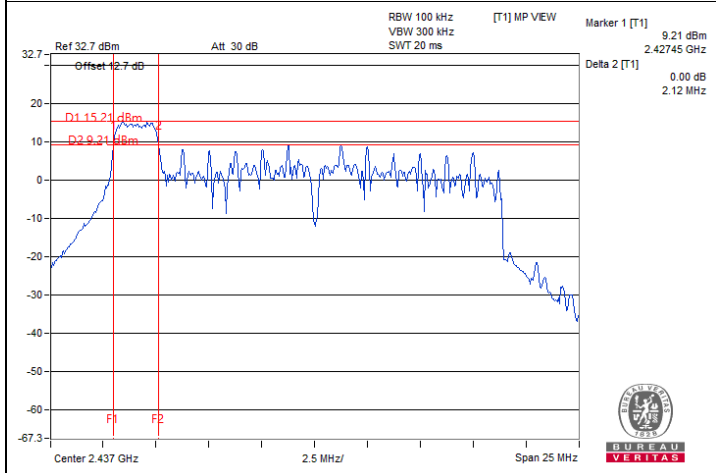
802.11g : CH 12



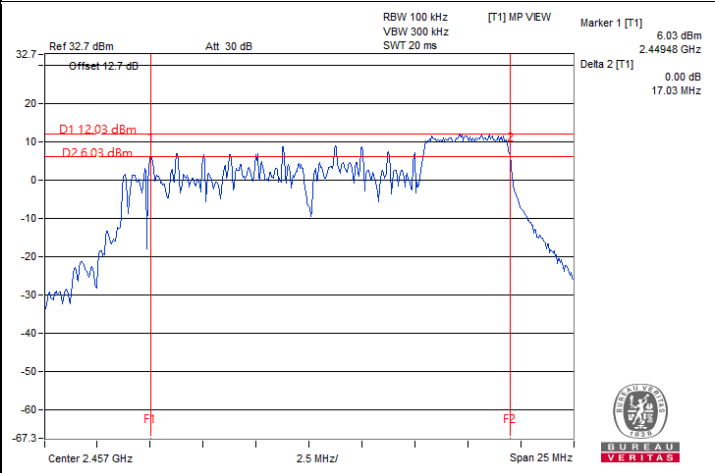
802.11be (EHT20) : CH 2



802.11be (EHT40) : CH 3

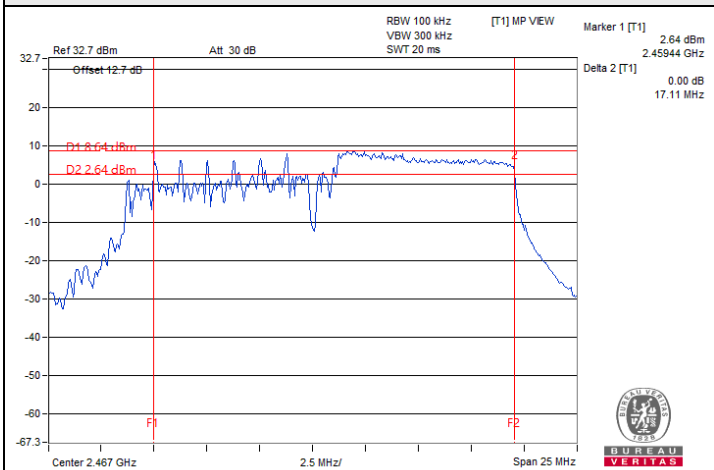


802.11be (EHT20) 26-tone RU : CH 6@0

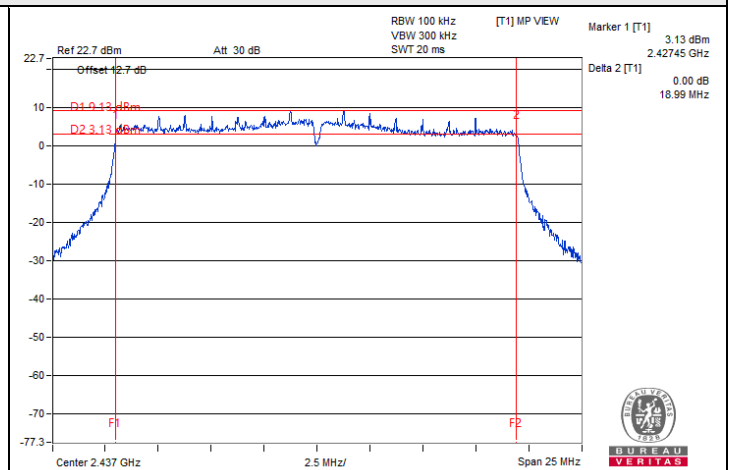


802.11be (EHT20) 52-tone RU : CH 10@40

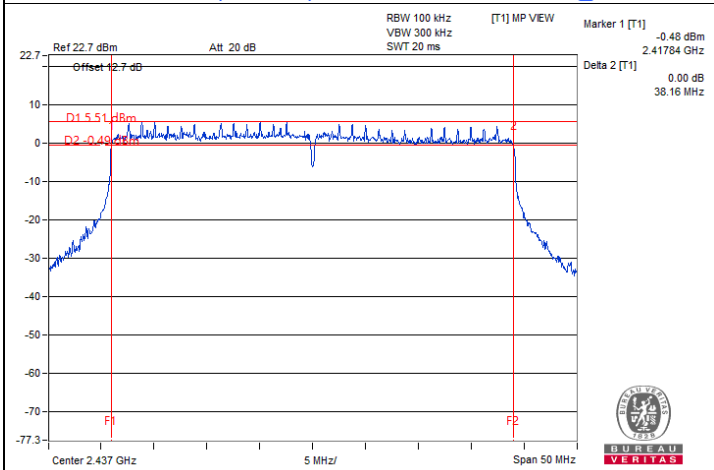
Spectrum Plot of Minimum Value



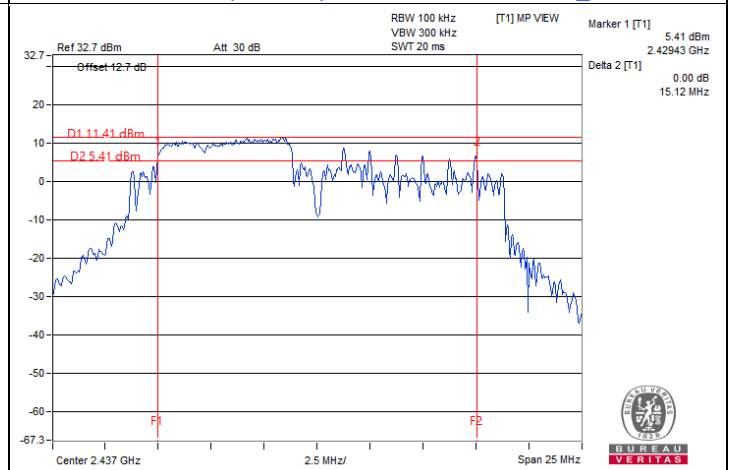
802.11be (EHT20) 106-tone RU : CH 12@54



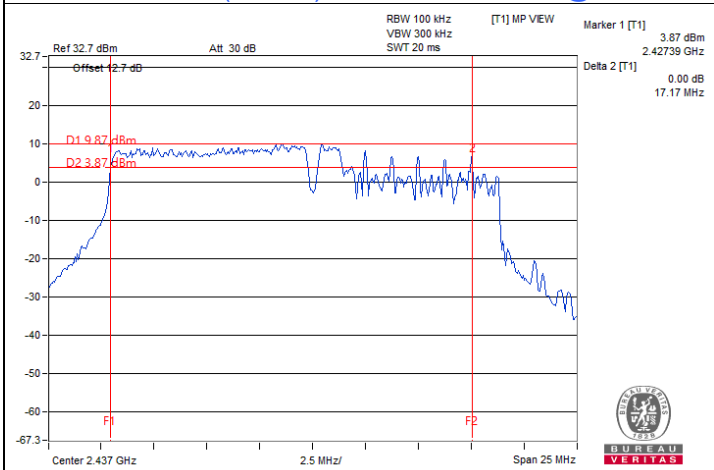
802.11be (EHT20) 242-tone RU : CH 6@61



802.11be (EHT40) 484-tone RU : CH 6@65



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



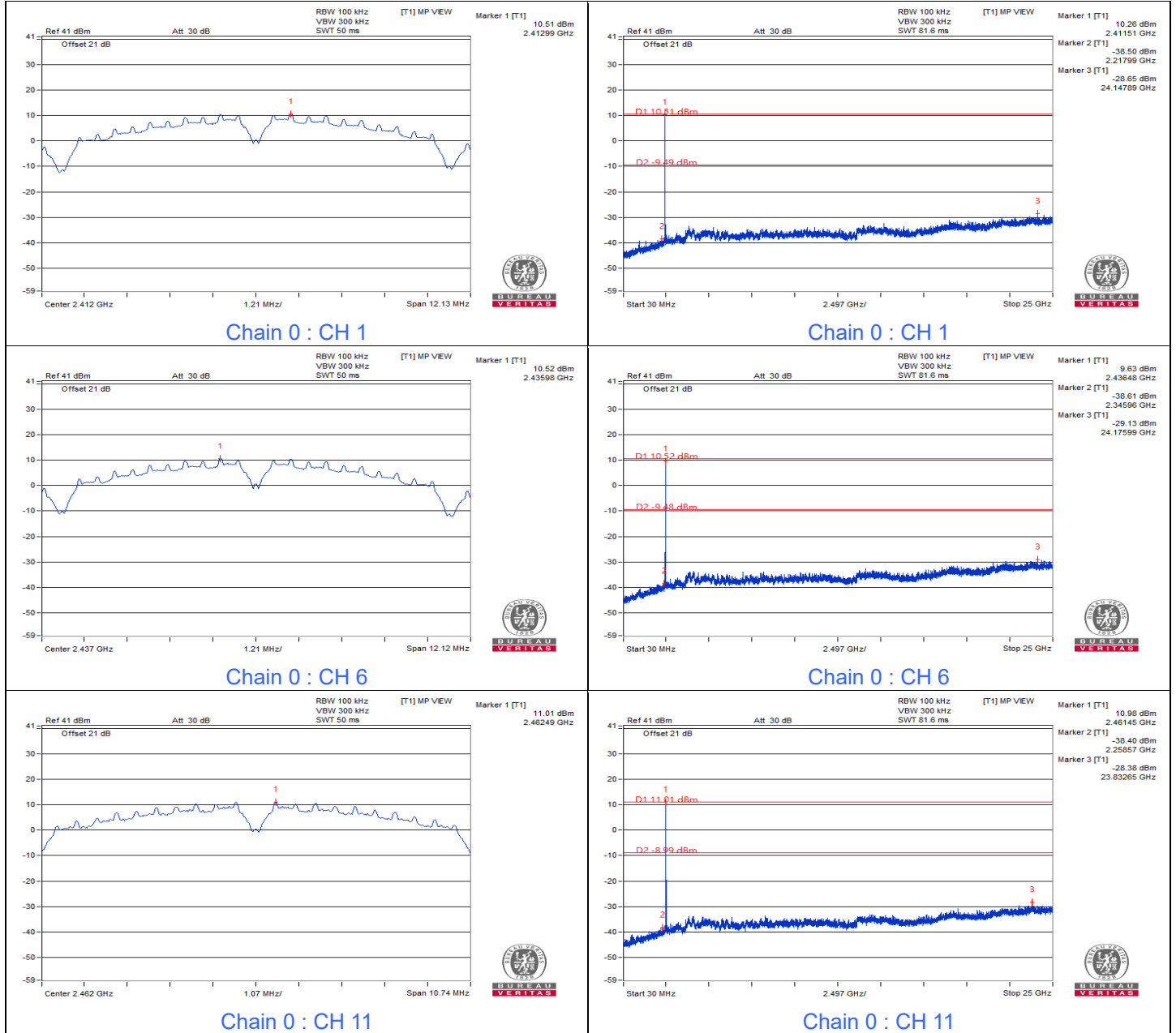
802.11be (EHT20) 106+26-tone MRU : CH 6@1

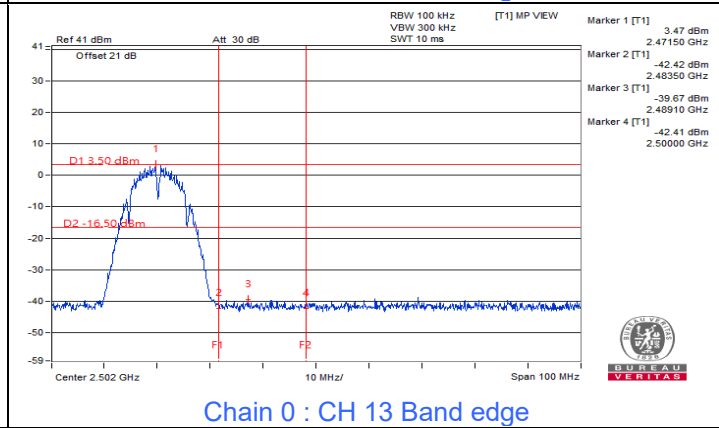
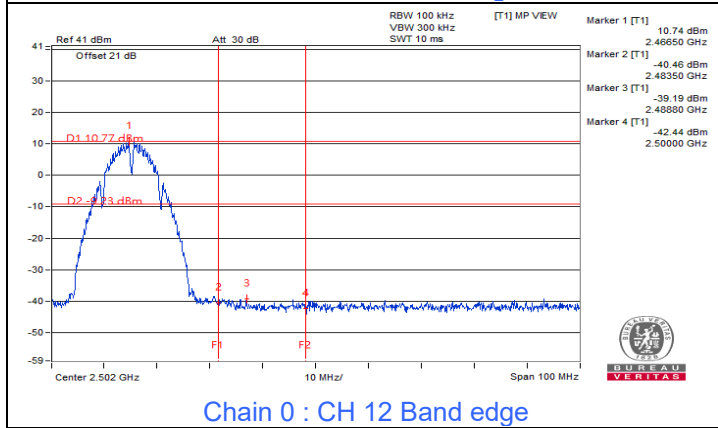
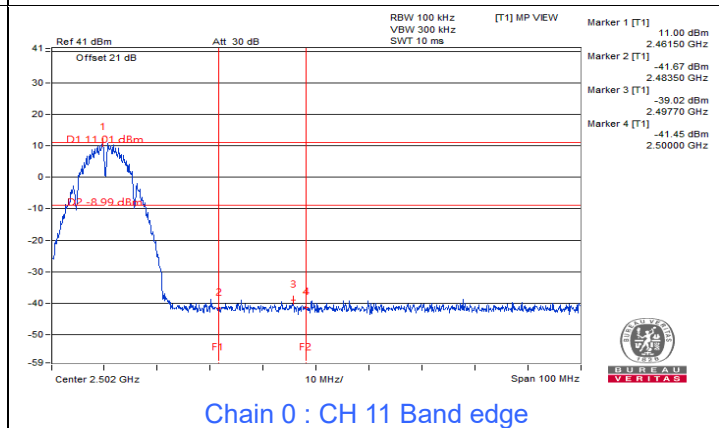
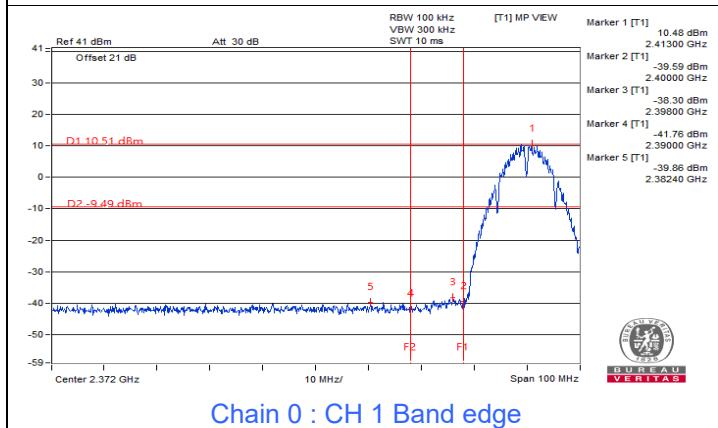
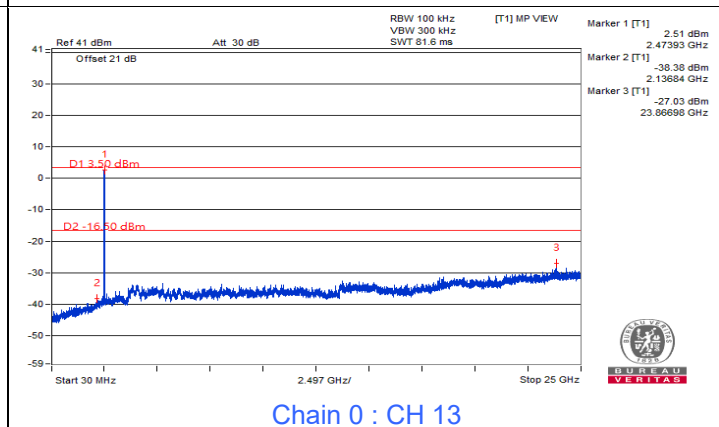
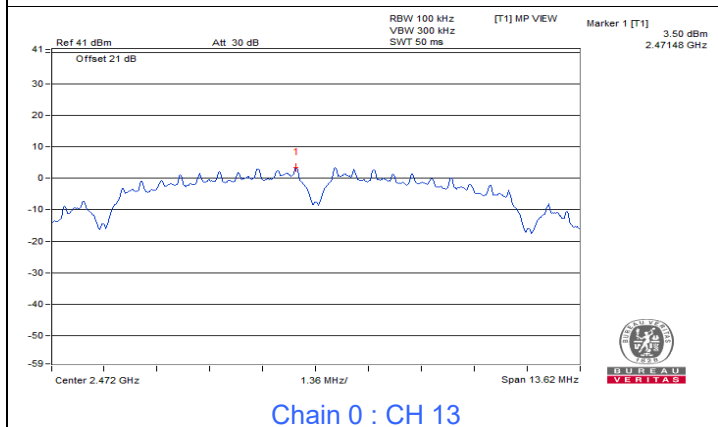
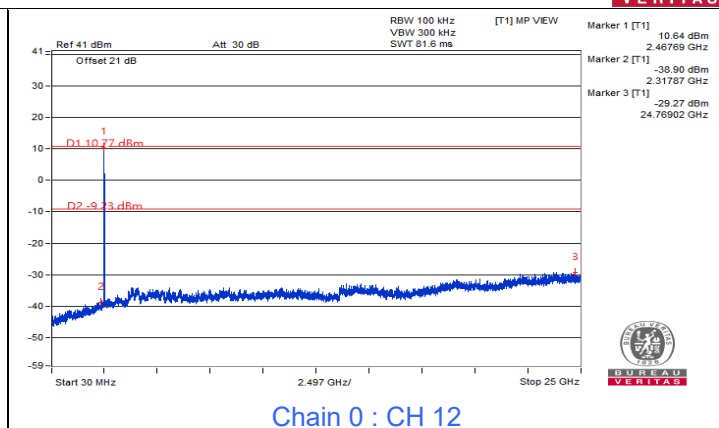
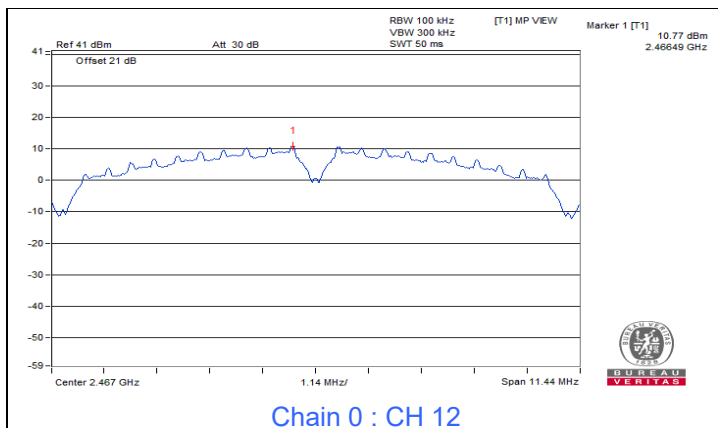
7.4 Conducted Out of Band Emissions

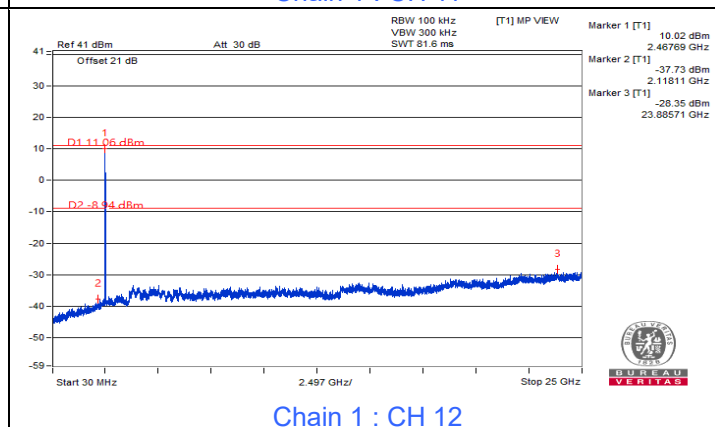
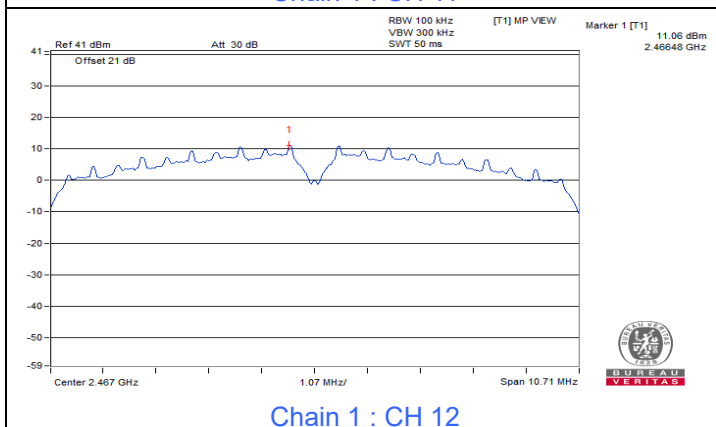
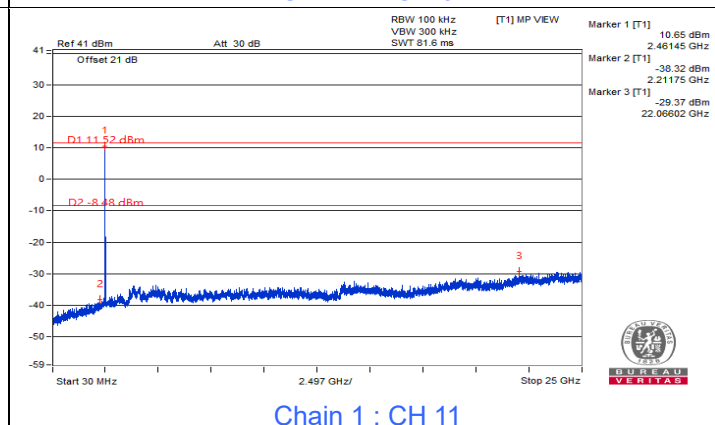
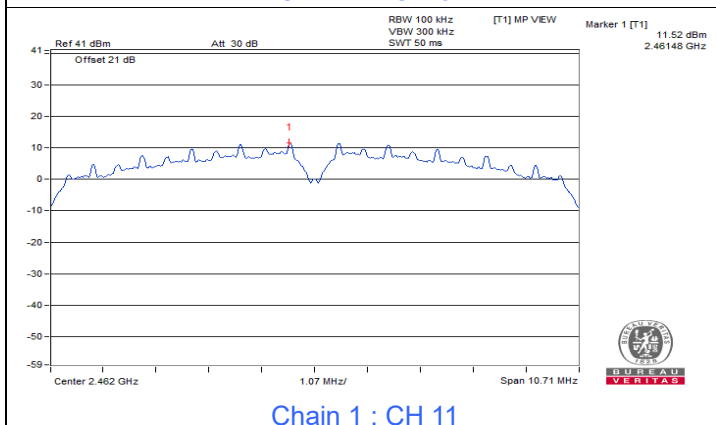
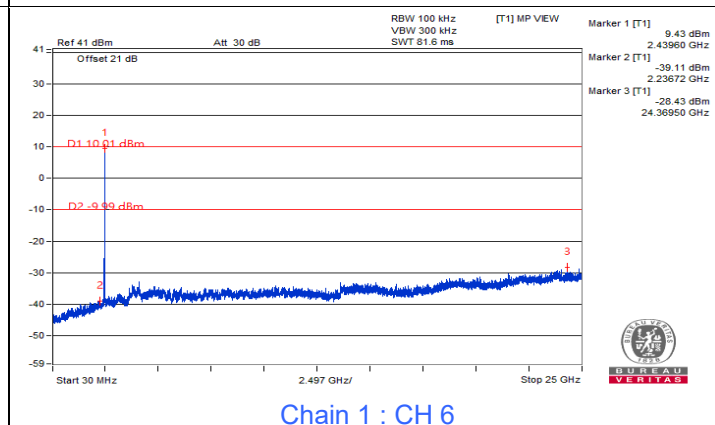
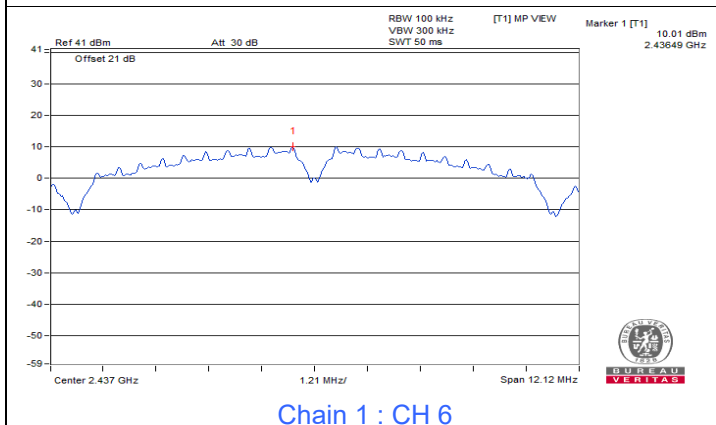
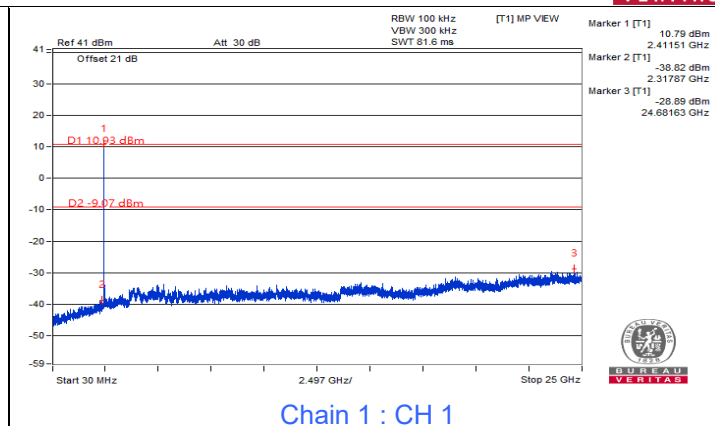
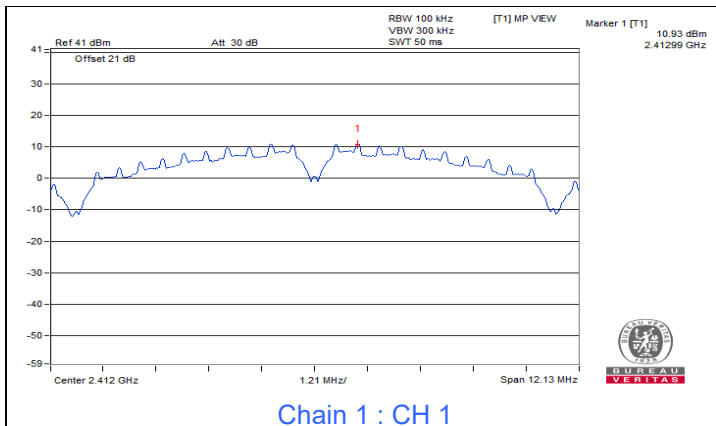
2TX Mode

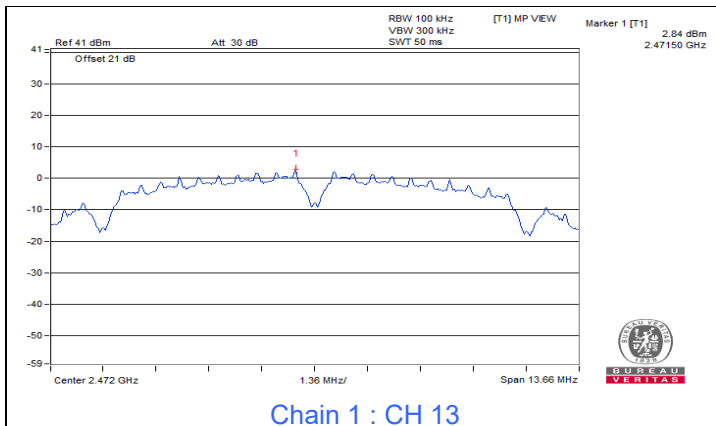
Input Power:	3.3 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Kevin Ko
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802.11b

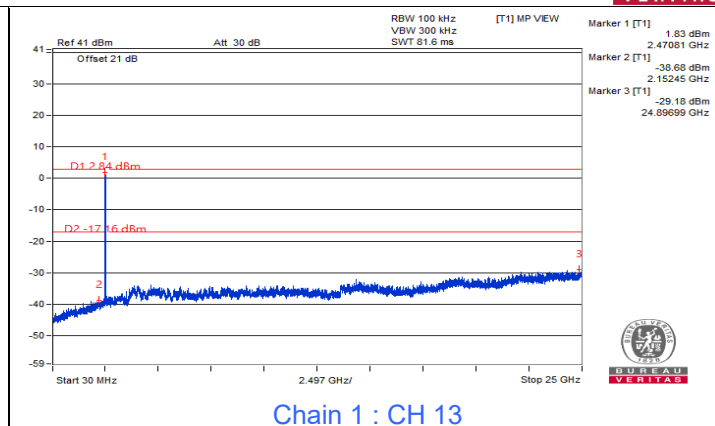




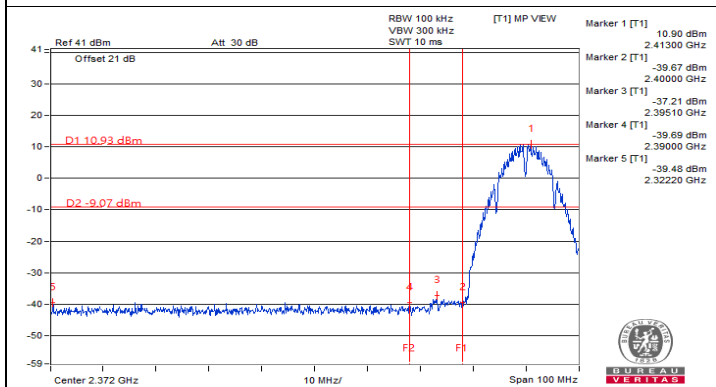




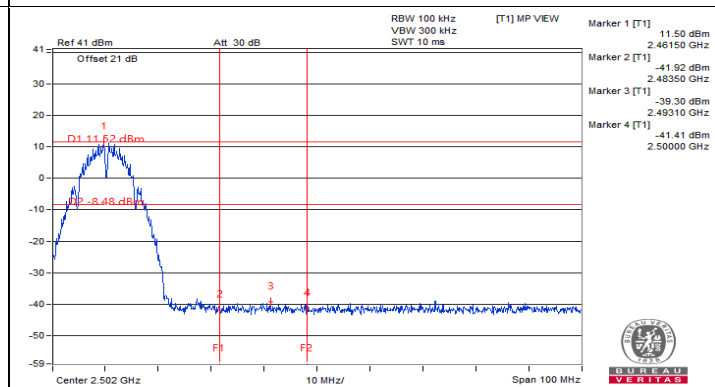
Chain 1 : CH 13



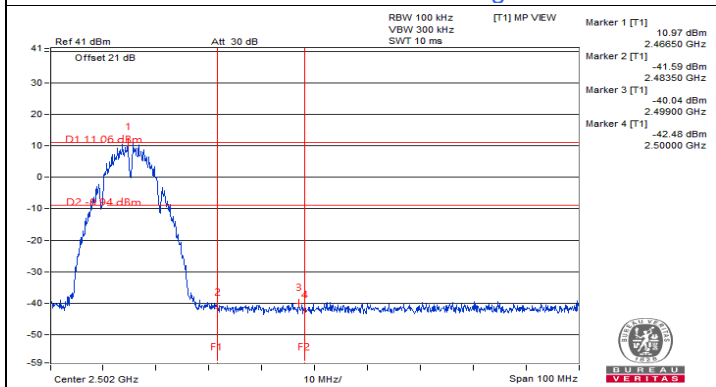
Chain 1 : CH 13



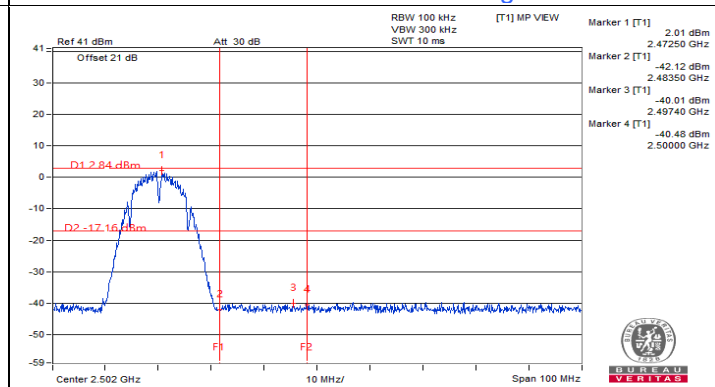
Chain 1 : CH 1 Band edge



Chain 1 : CH 11 Band edge

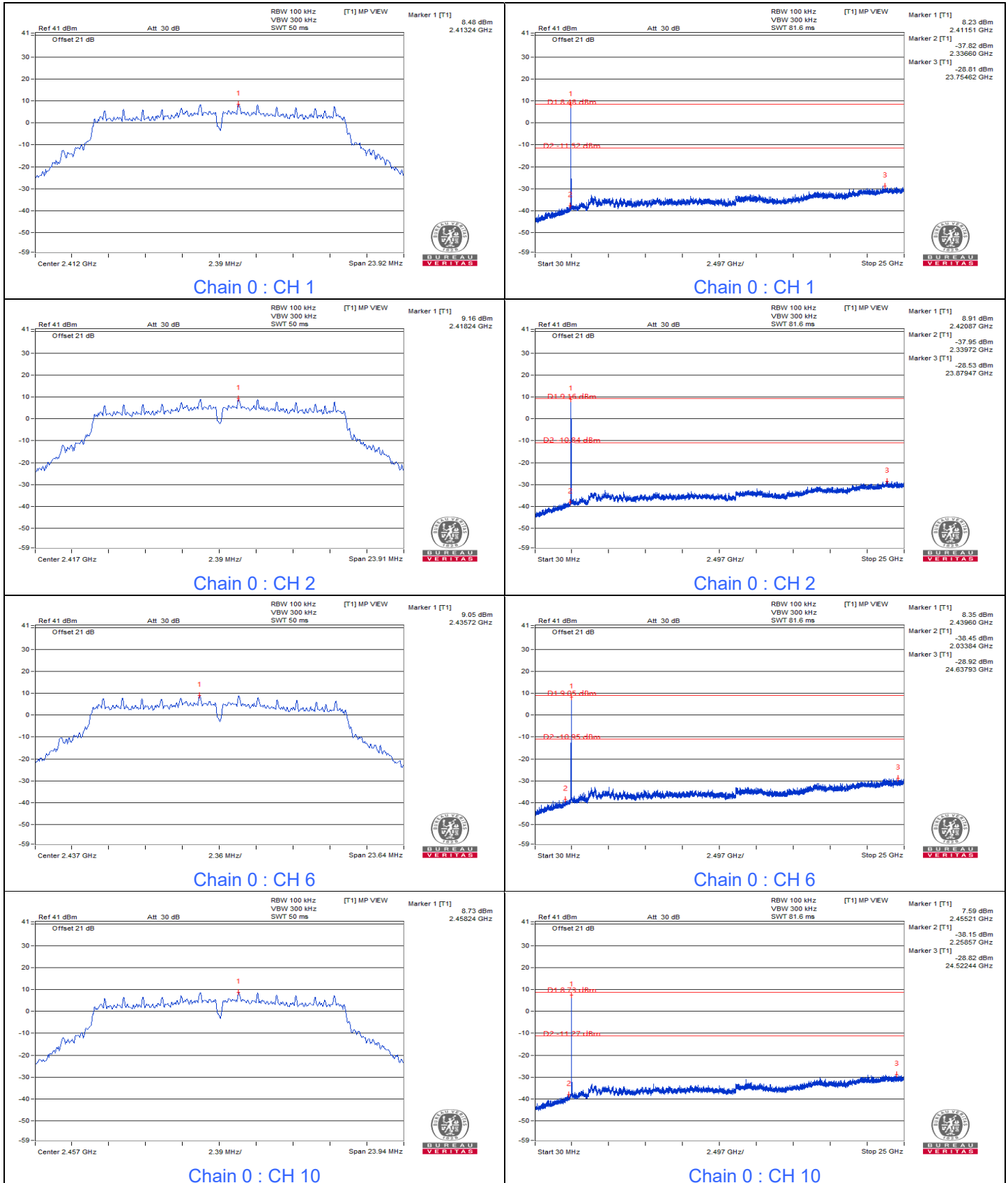


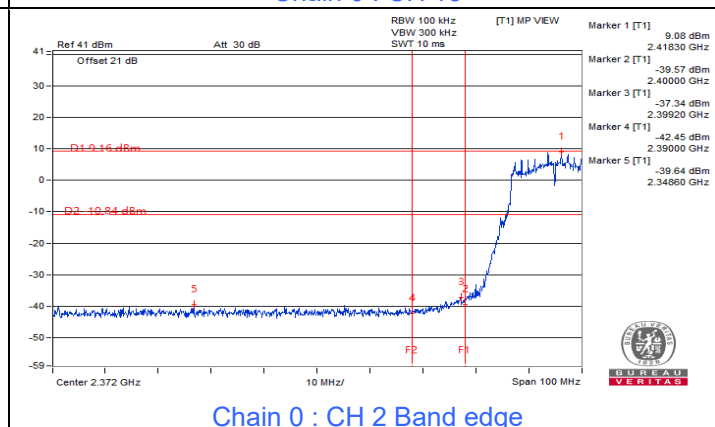
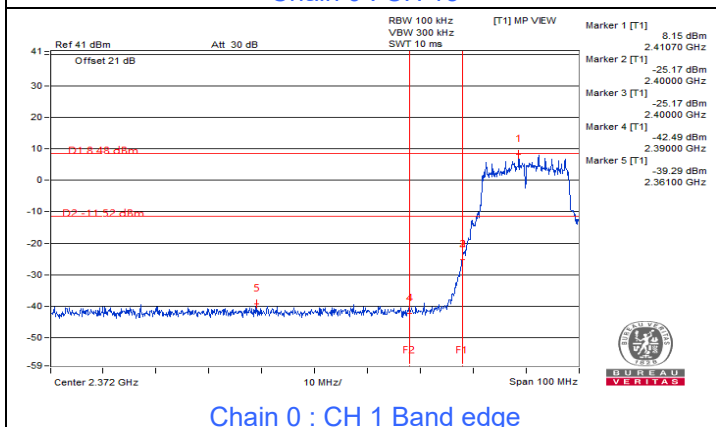
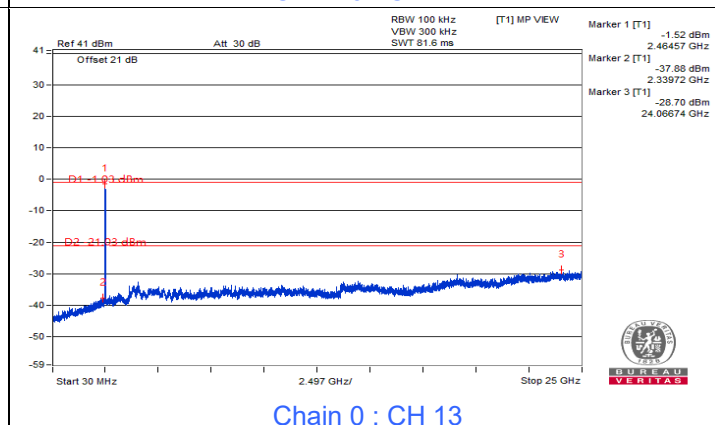
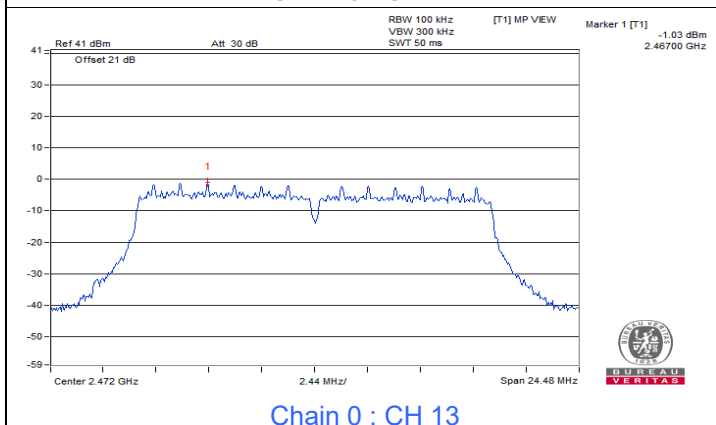
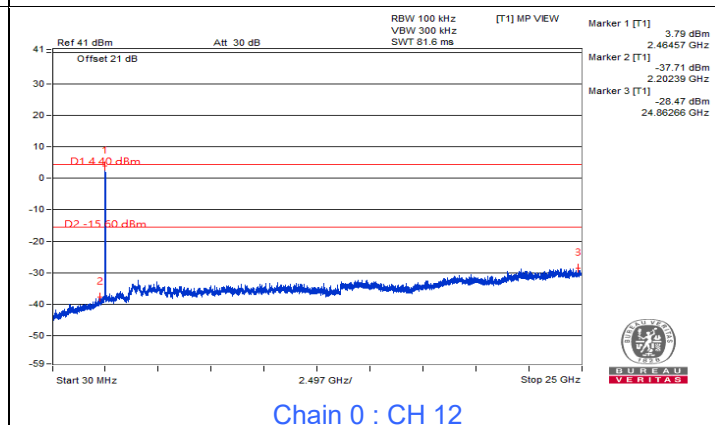
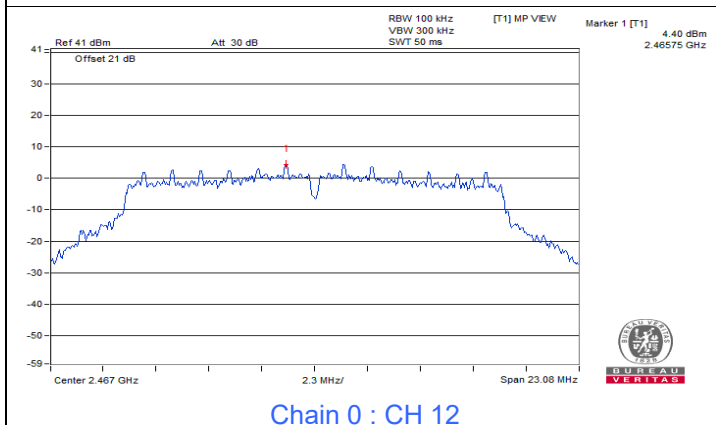
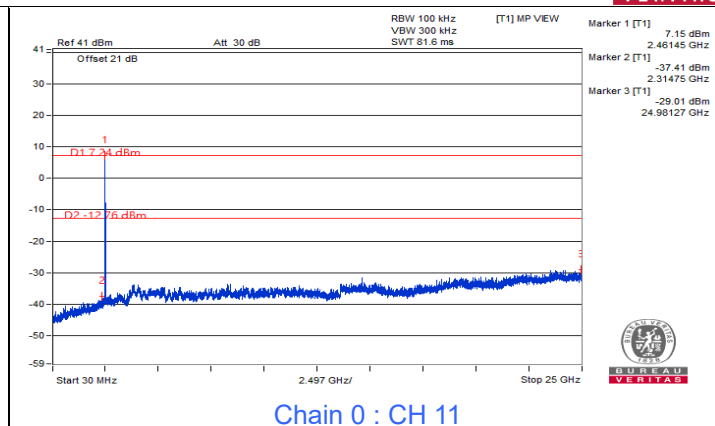
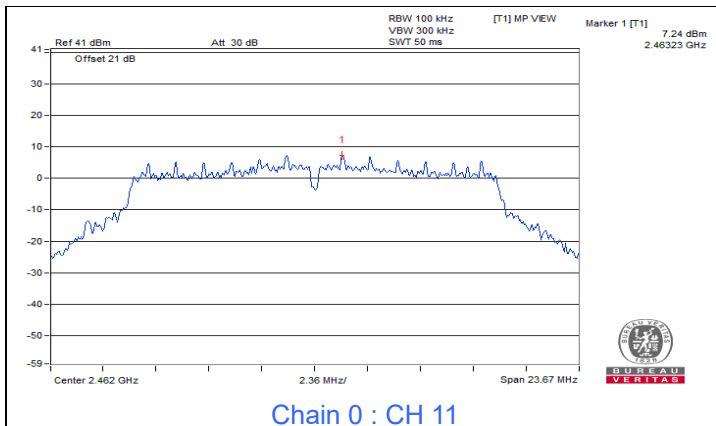
Chain 1 : CH 12 Band edge

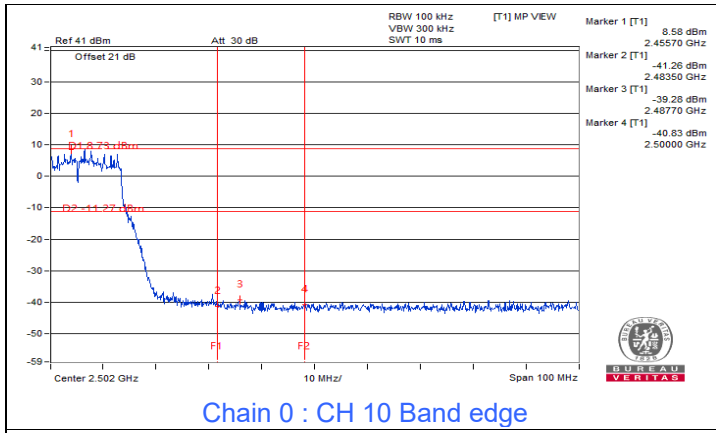


Chain 1 : CH 13 Band edge

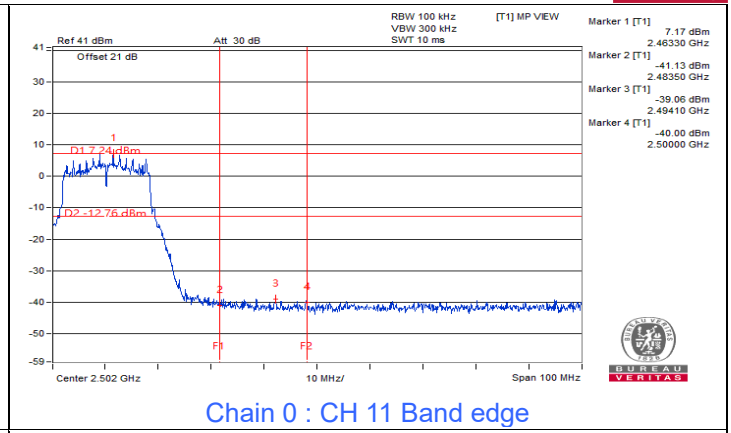
802.11g



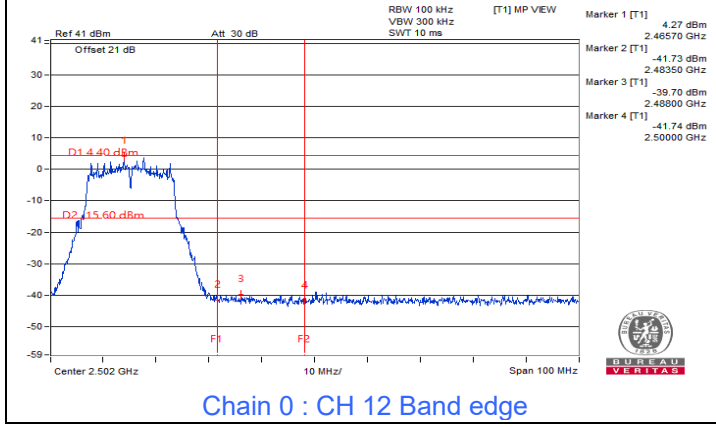




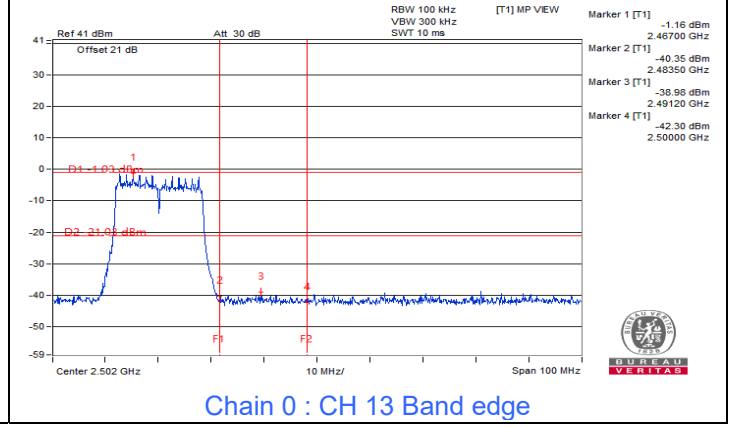
Chain 0 : CH 10 Band edge



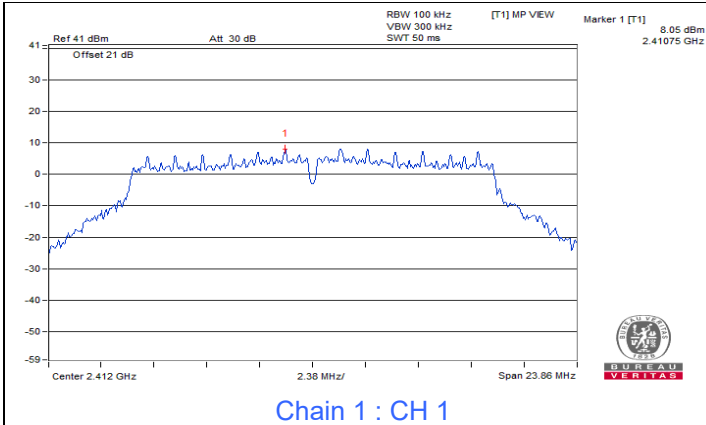
Chain 0 : CH 11 Band edge



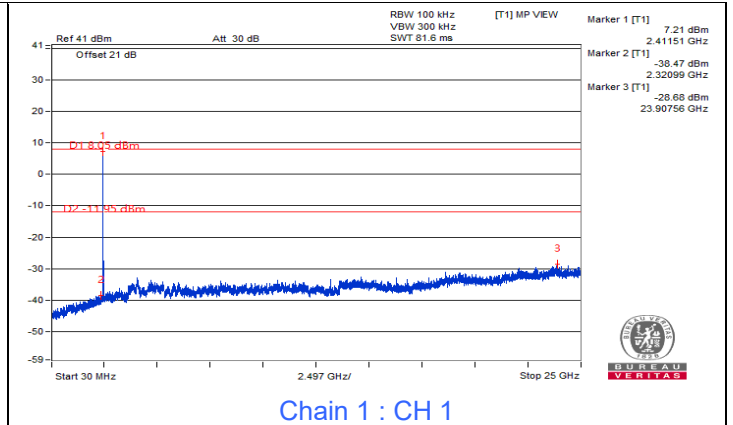
Chain 0 : CH 12 Band edge



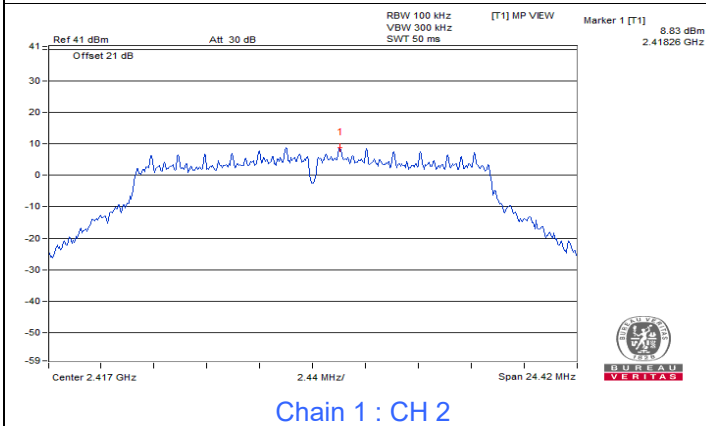
Chain 0 : CH 13 Band edge



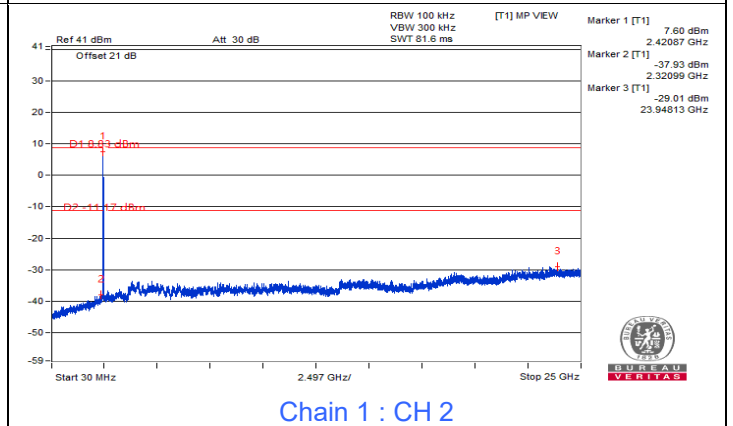
Chain 1 : CH 1



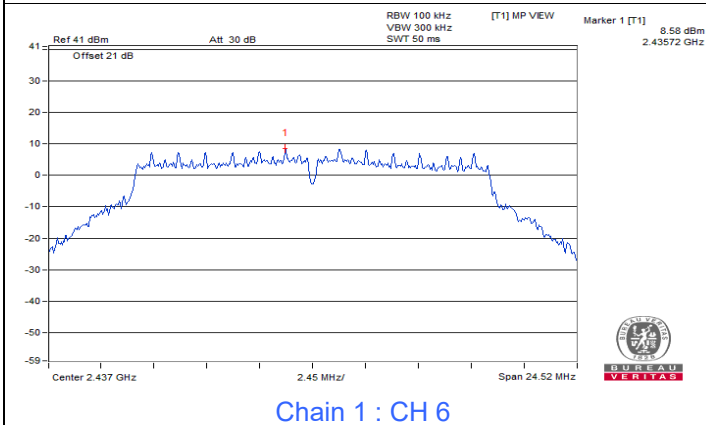
Chain 1 : CH 1



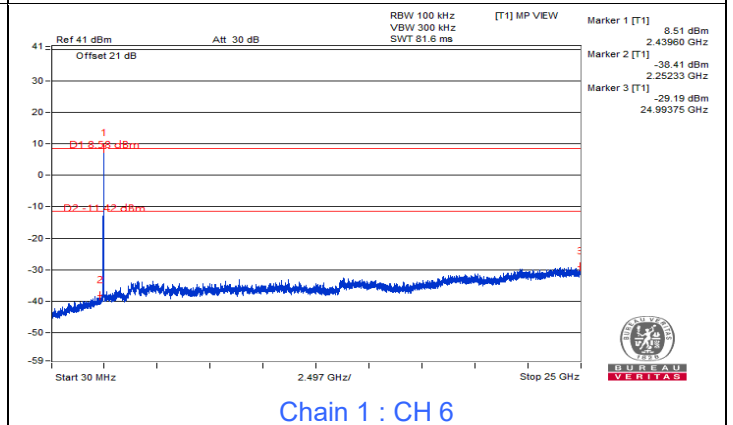
Chain 1 : CH 2



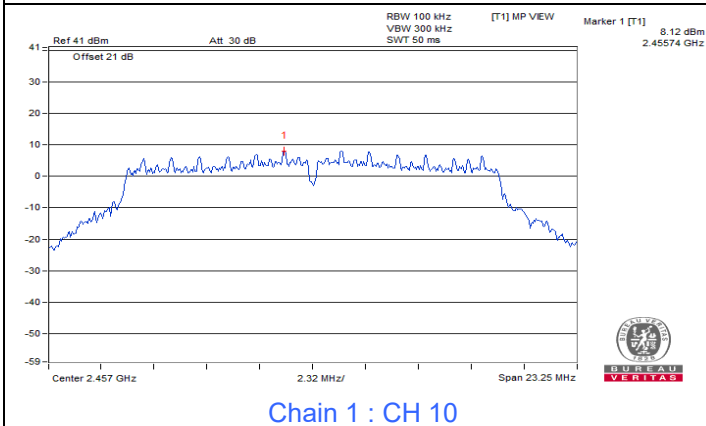
Chain 1 : CH 2



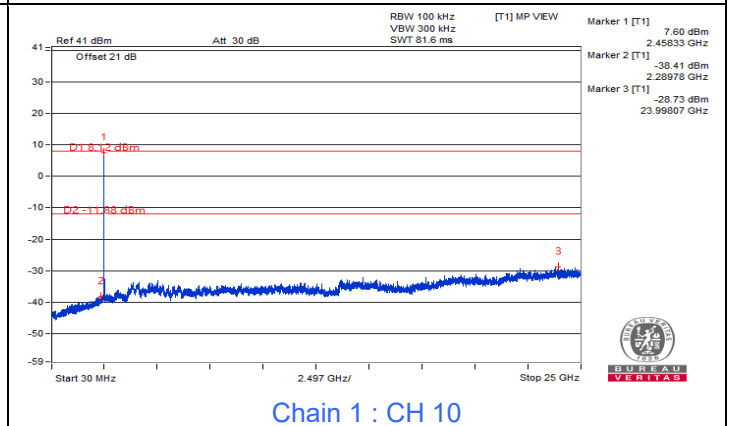
Chain 1 : CH 6



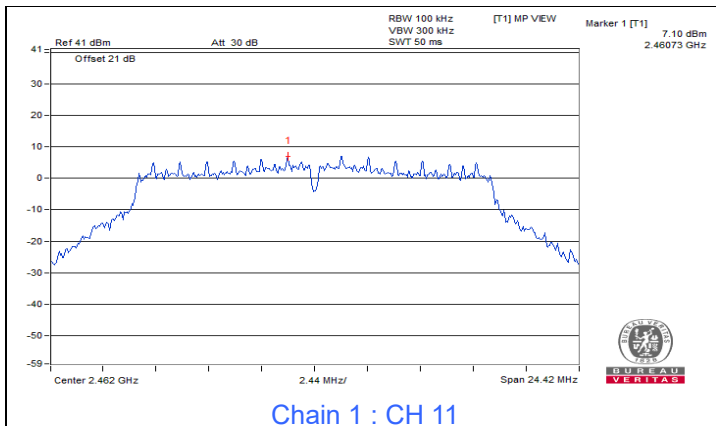
Chain 1 : CH 6



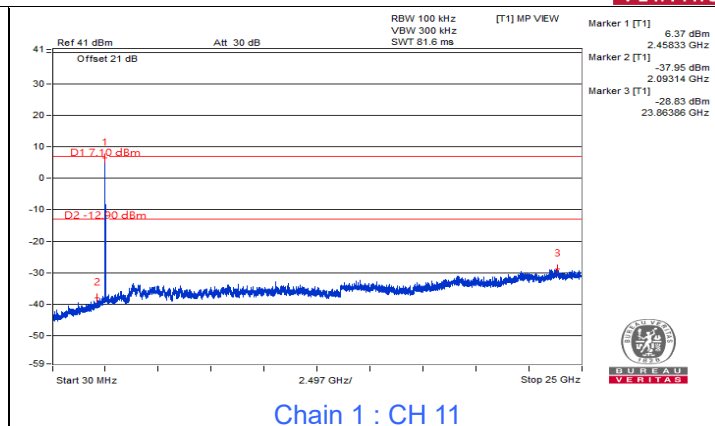
Chain 1 : CH 10



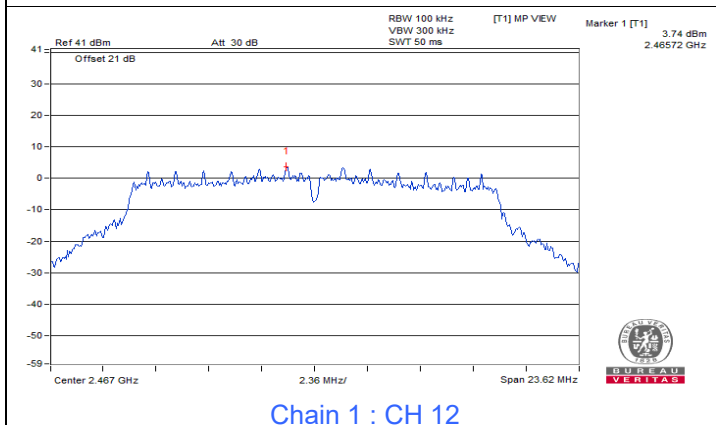
Chain 1 : CH 10



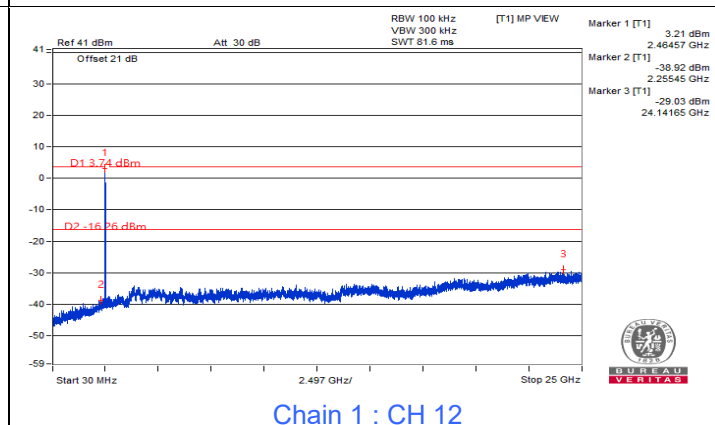
Chain 1 : CH 11



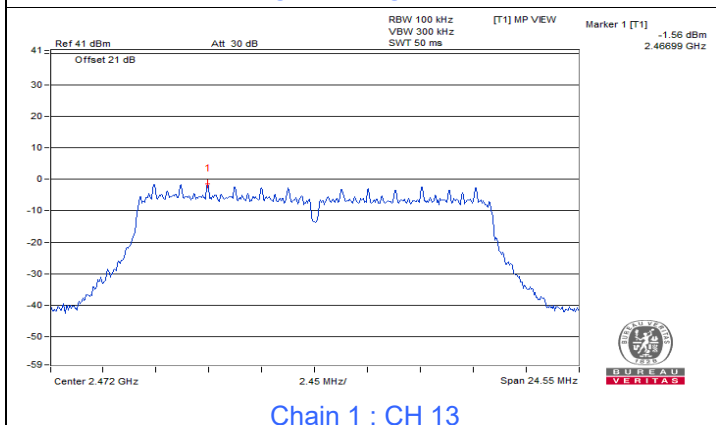
Chain 1 : CH 11



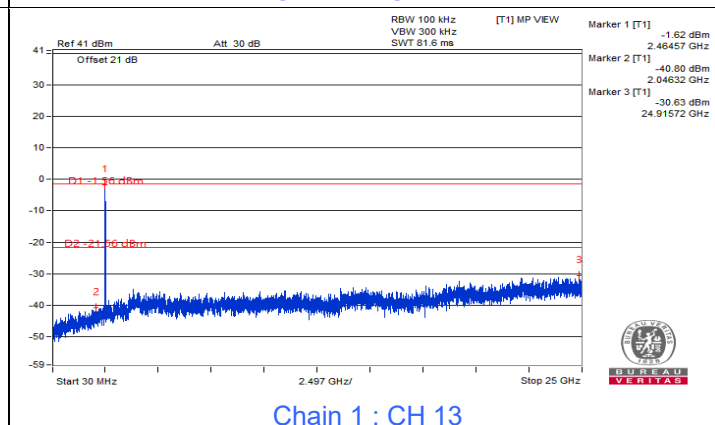
Chain 1 : CH 12



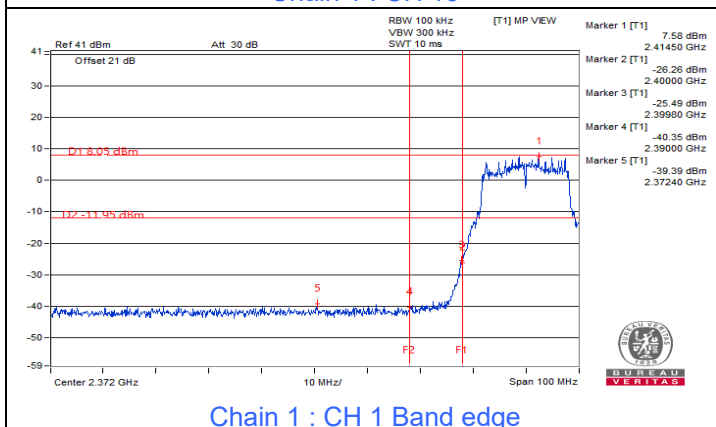
Chain 1 : CH 12



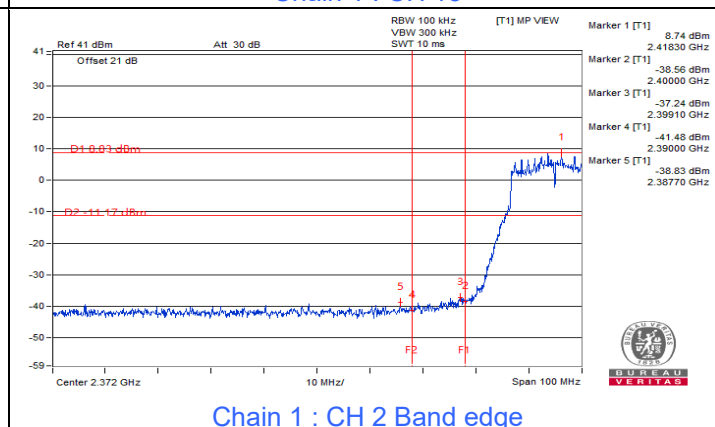
Chain 1 : CH 13



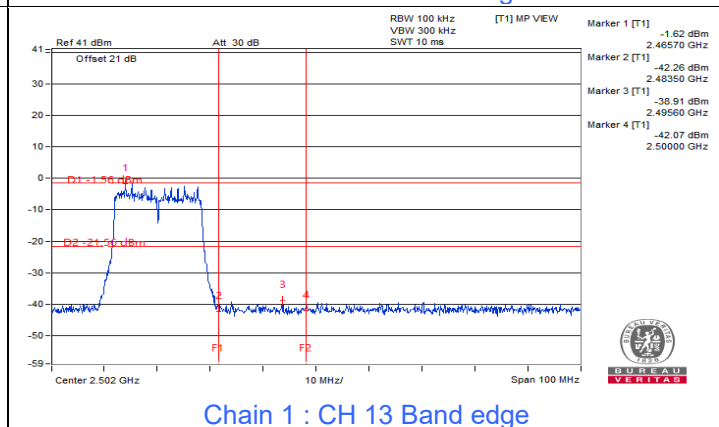
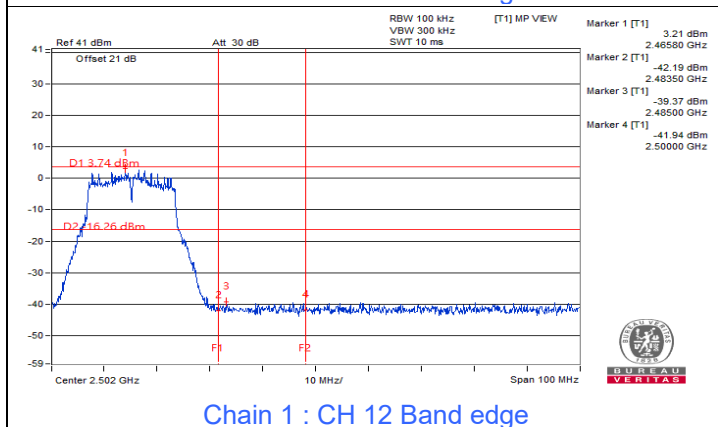
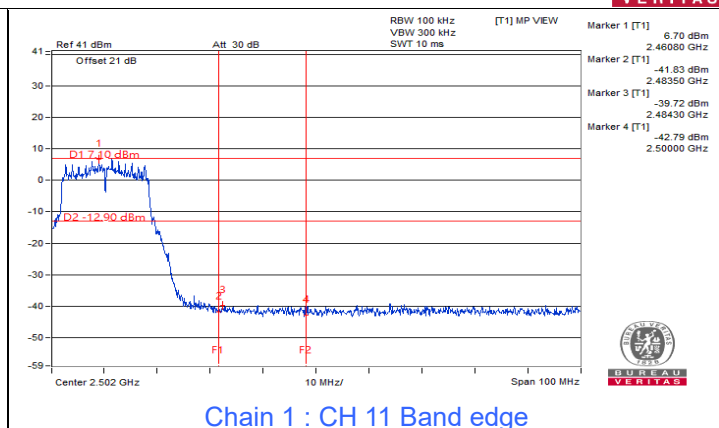
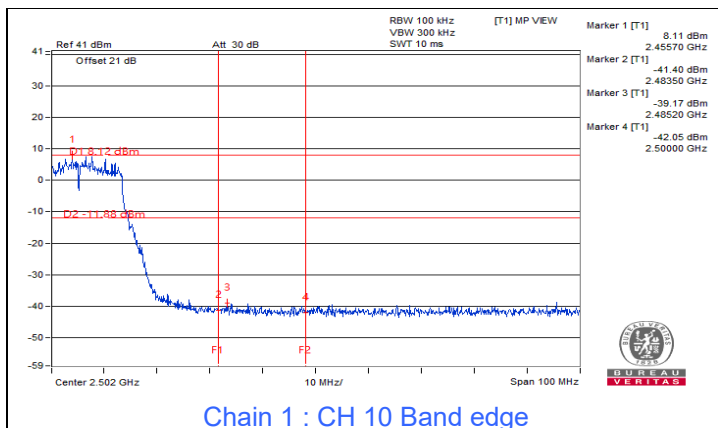
Chain 1 : CH 13



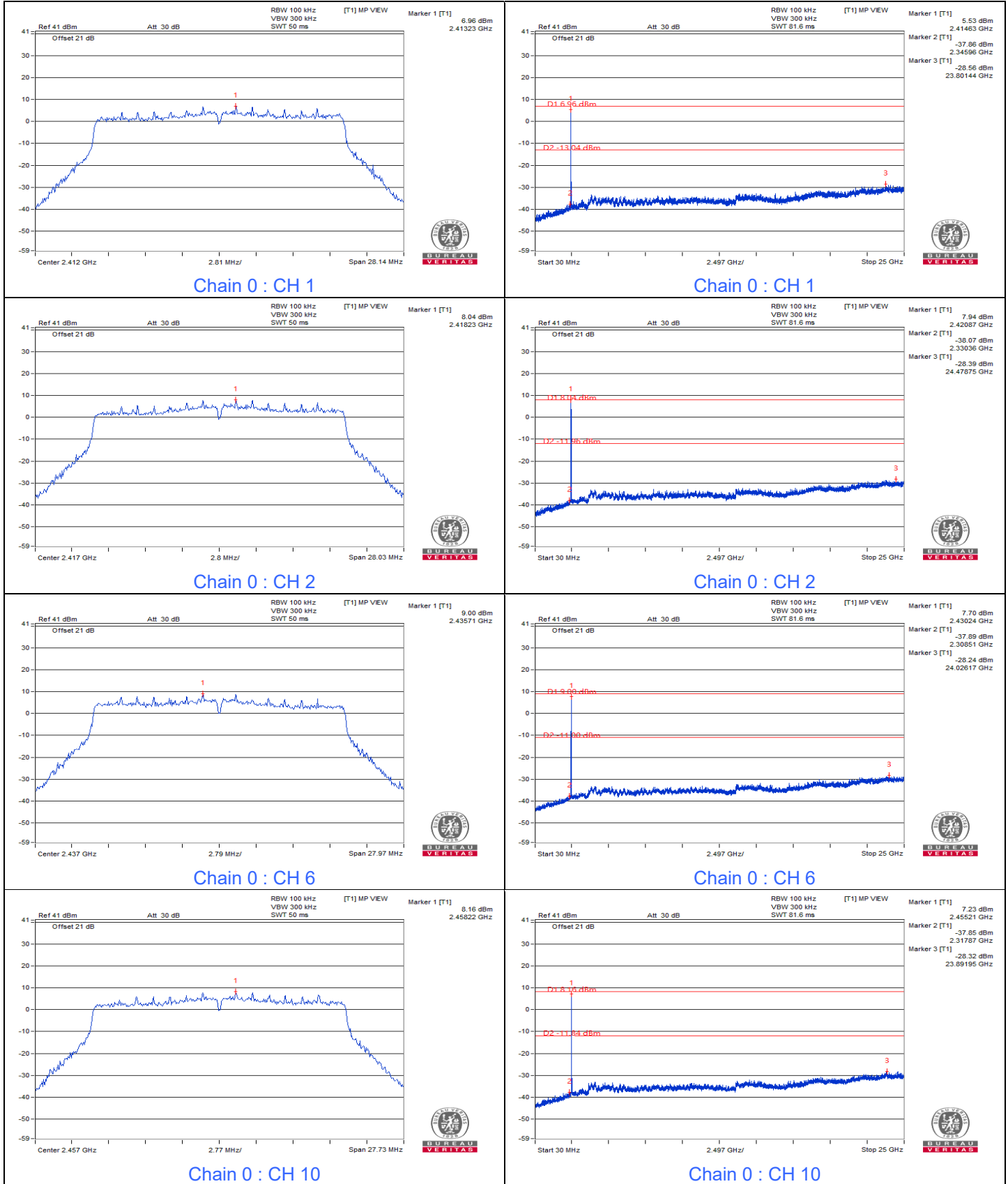
Chain 1 : CH 1 Band edge

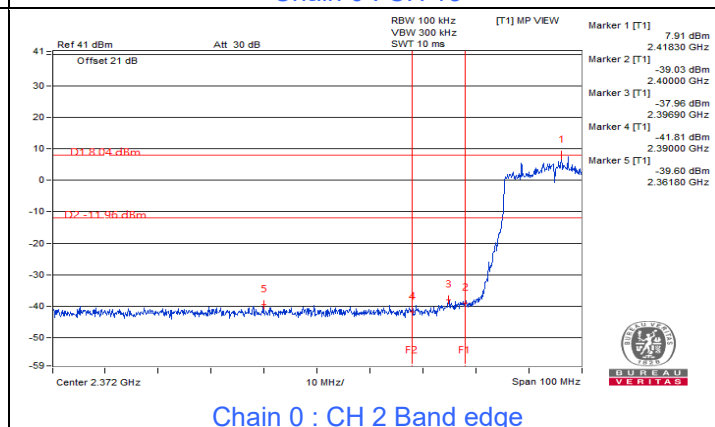
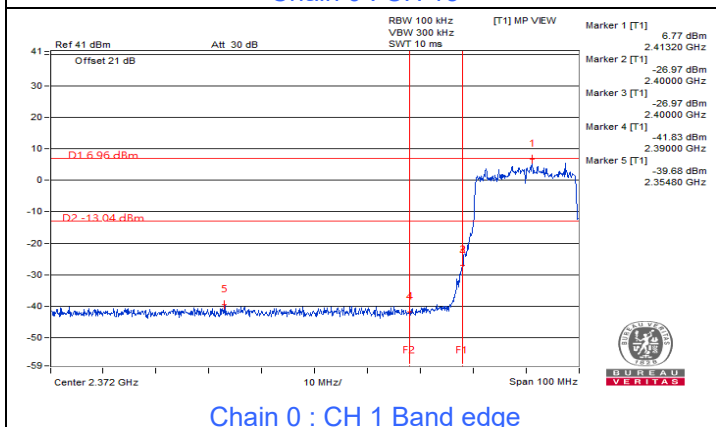
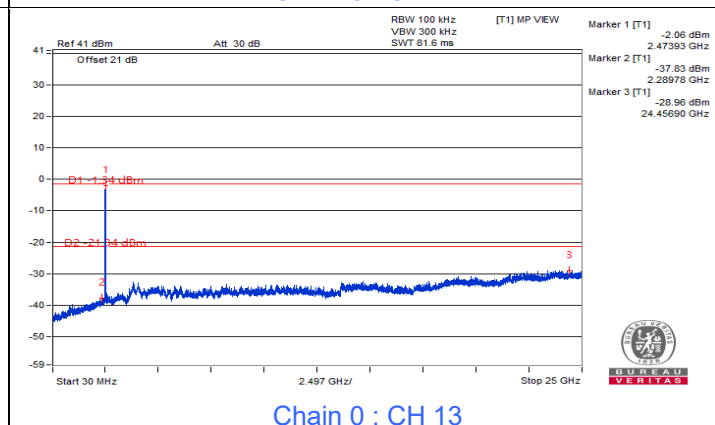
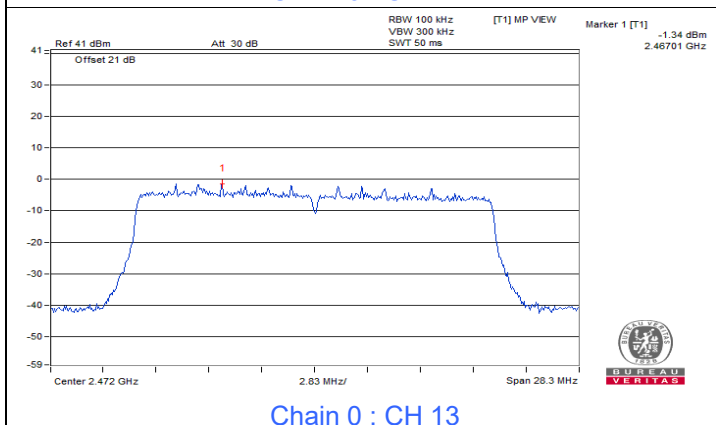
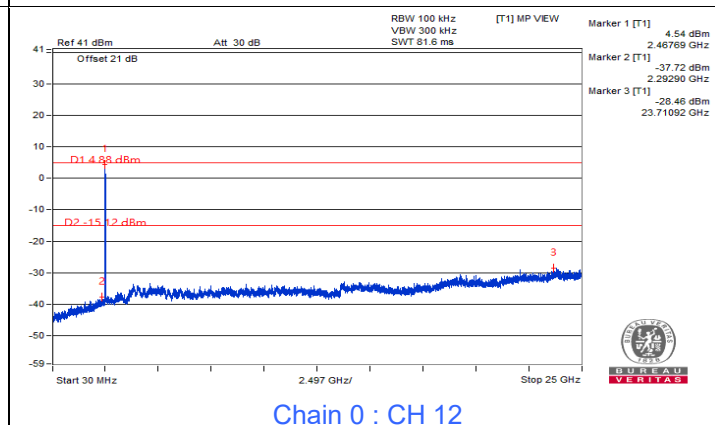
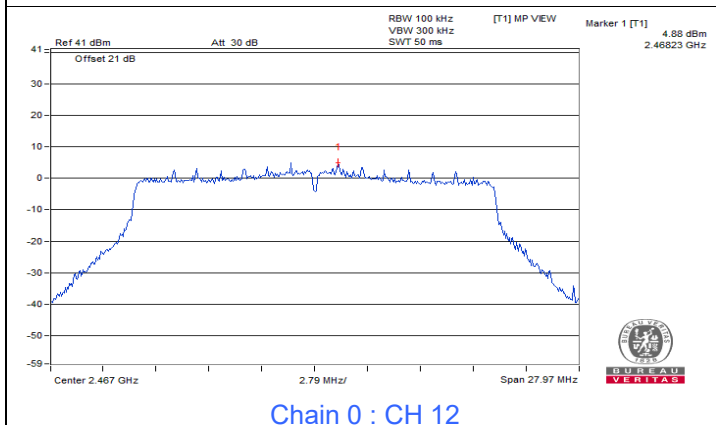
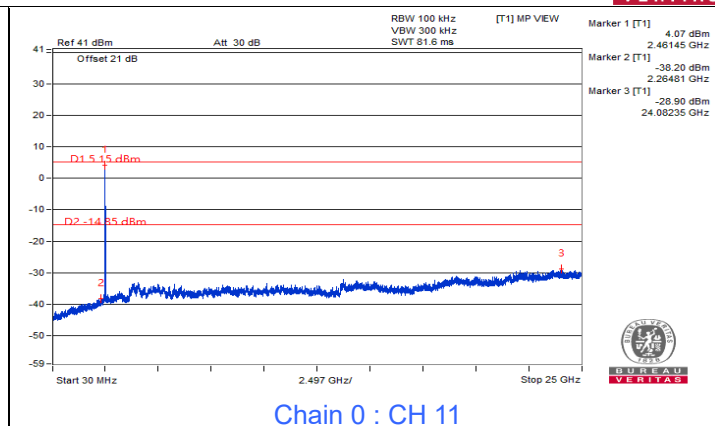
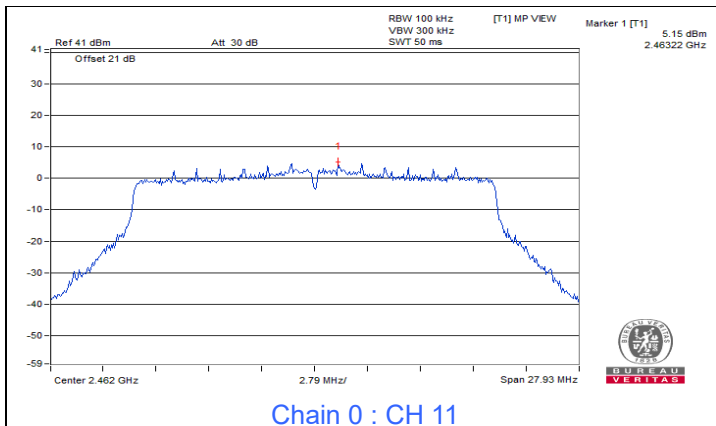


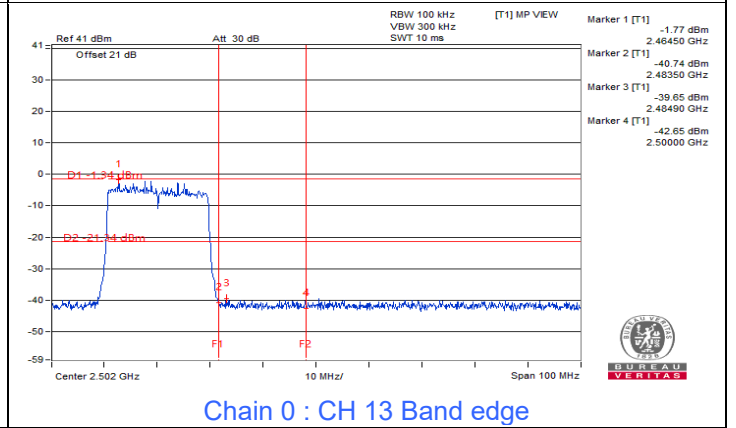
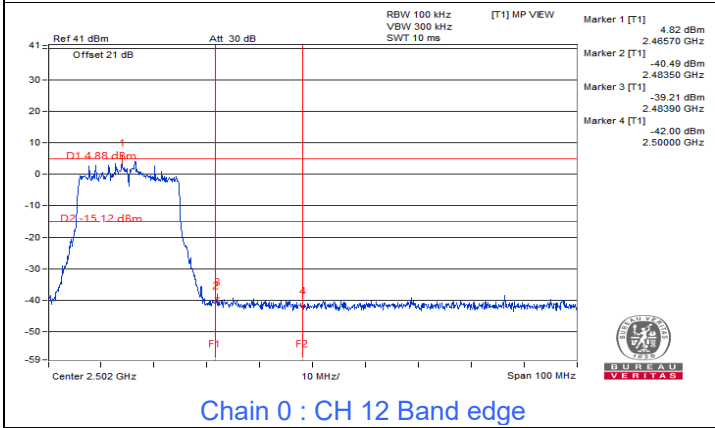
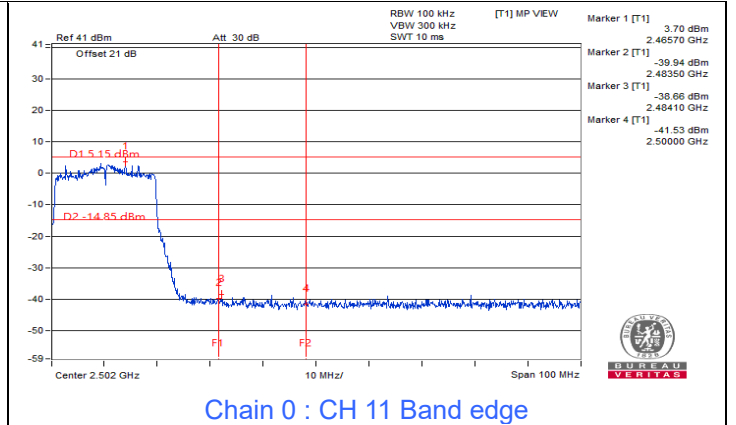
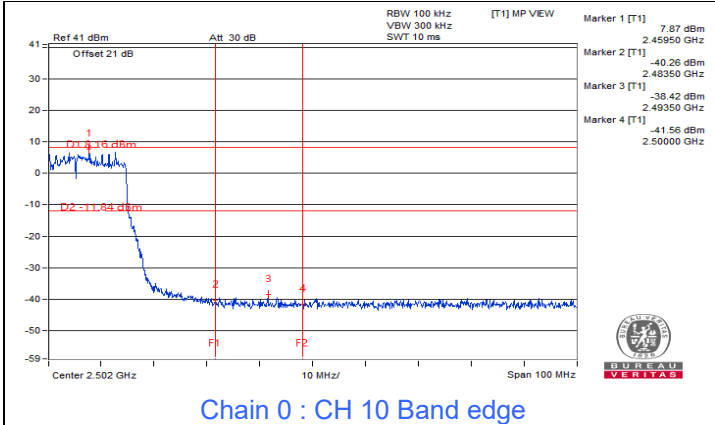
Chain 1 : CH 2 Band edge

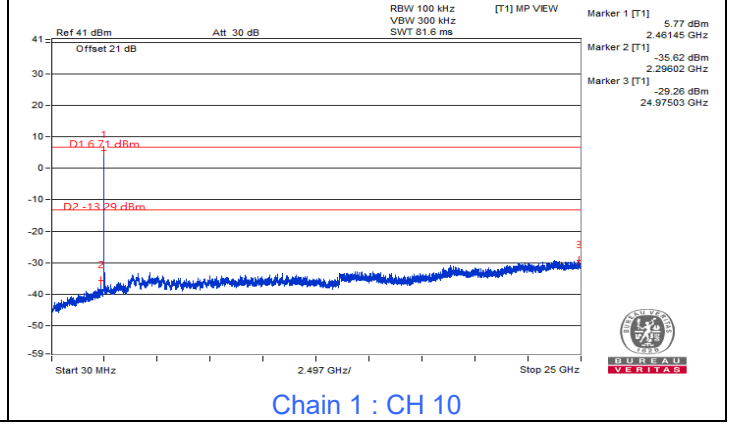
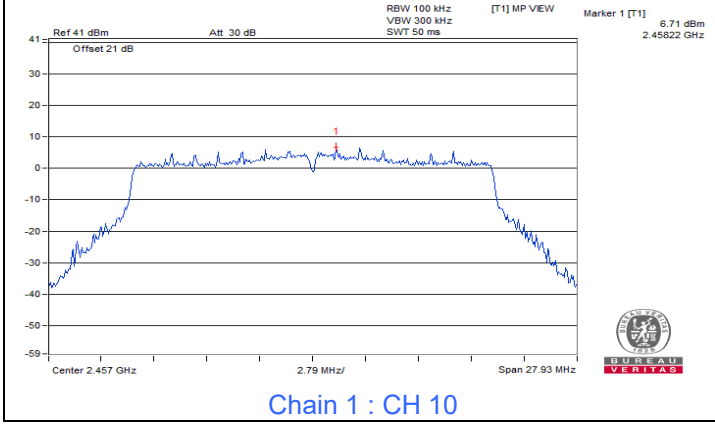
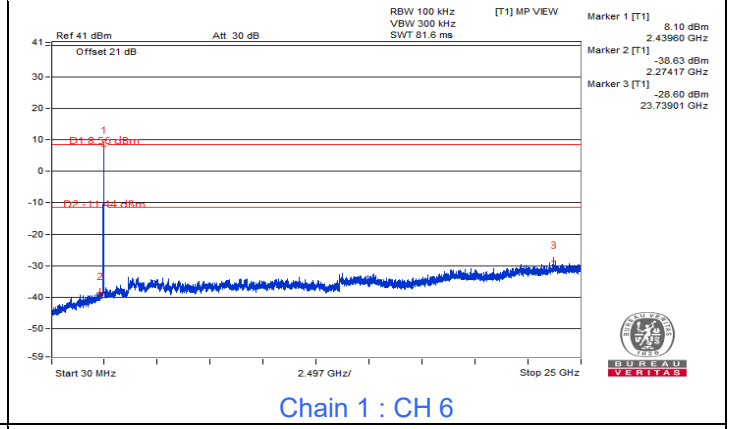
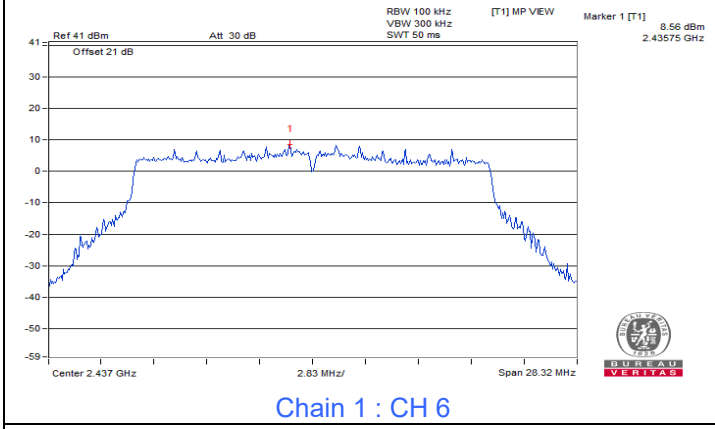
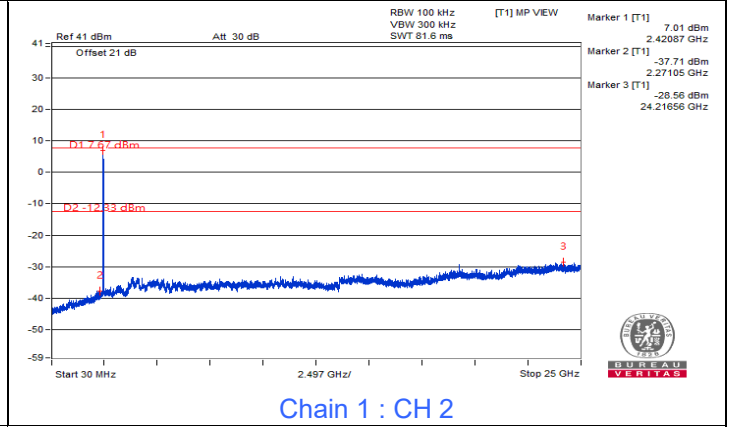
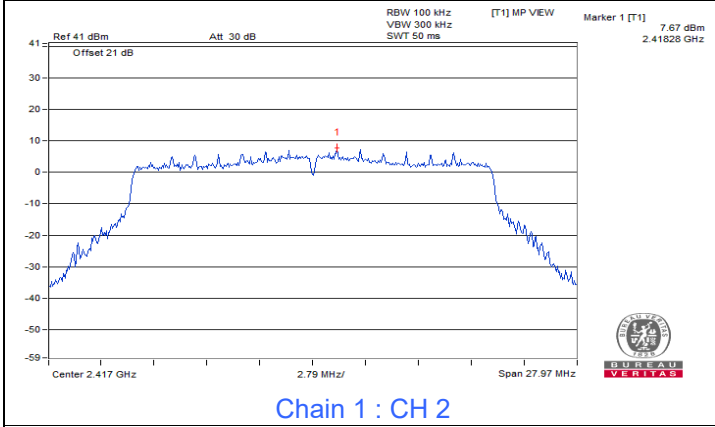
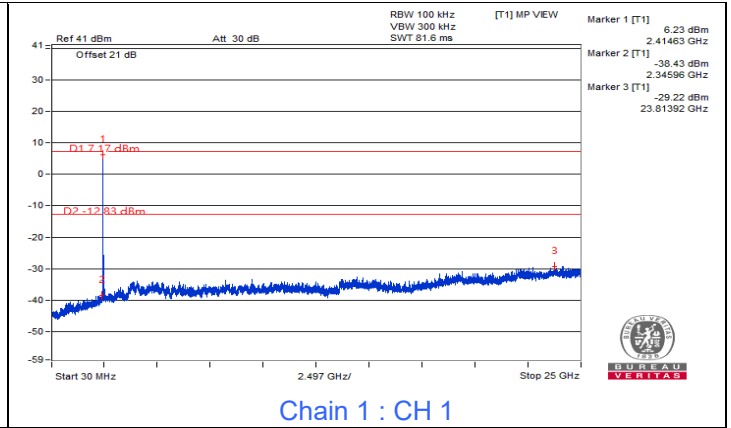
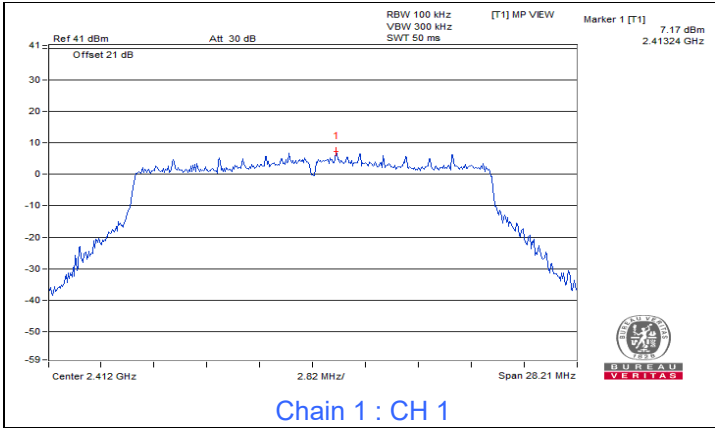


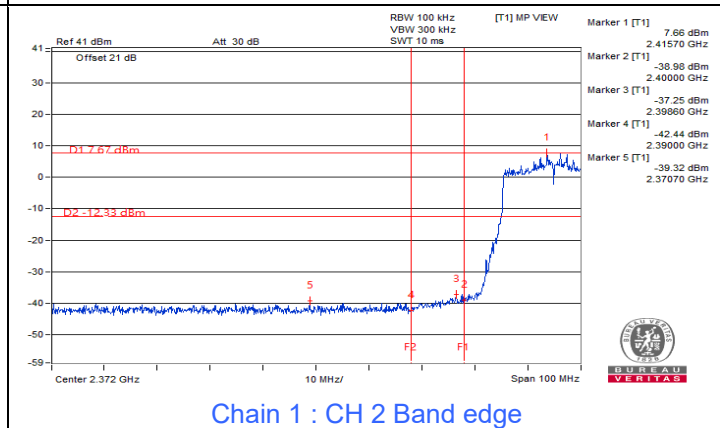
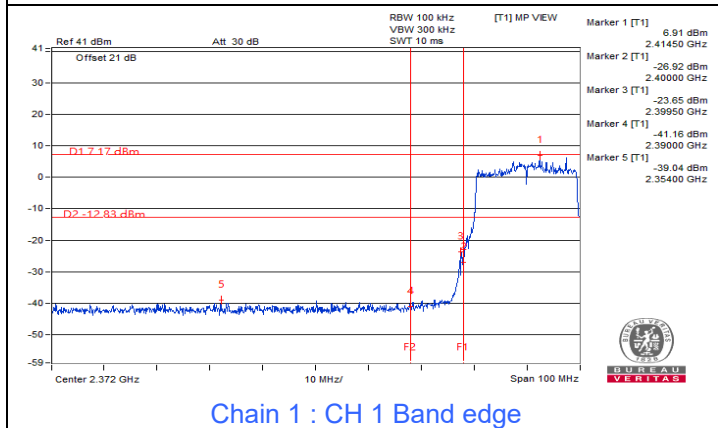
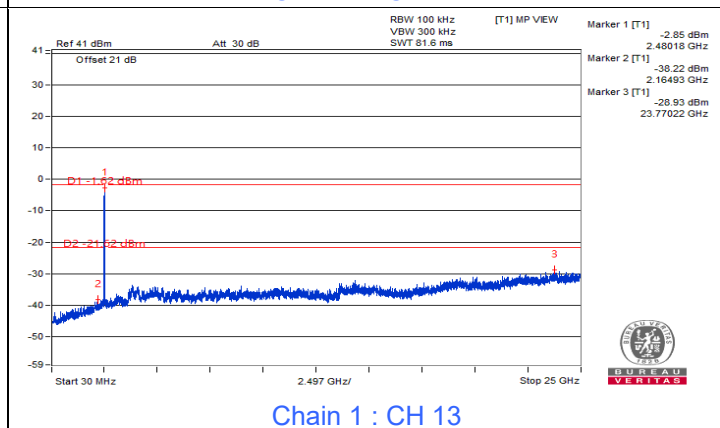
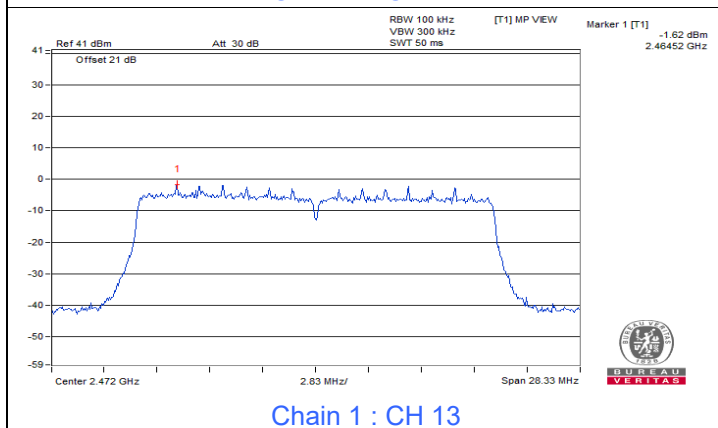
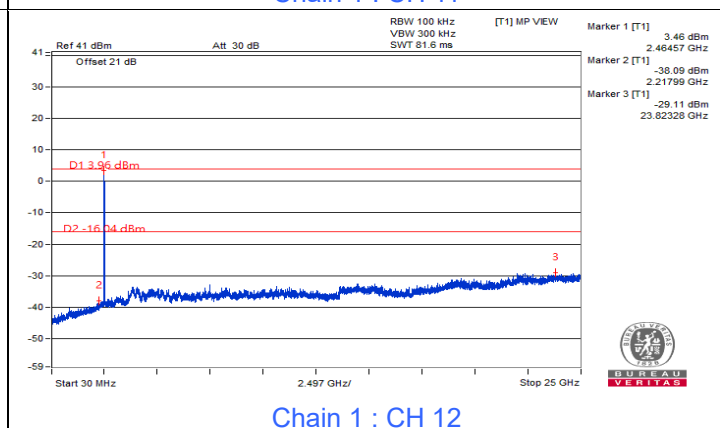
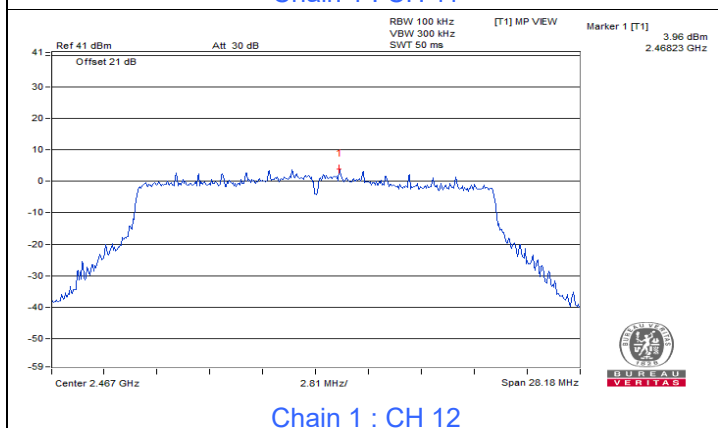
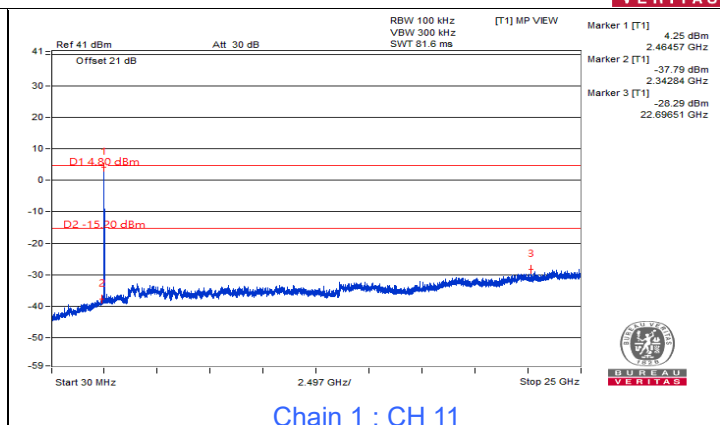
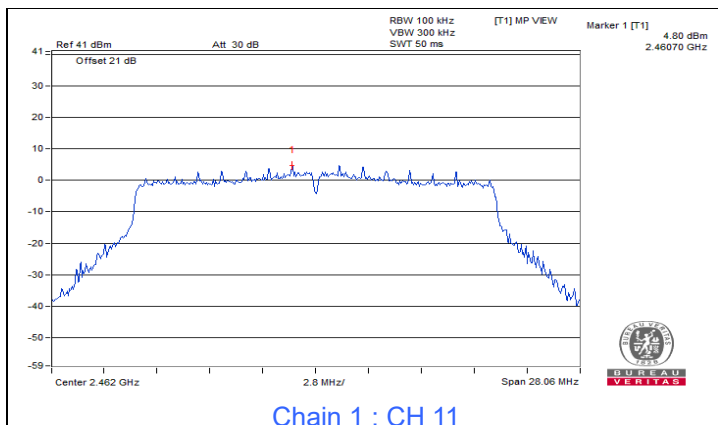
802.11be (EHT20)

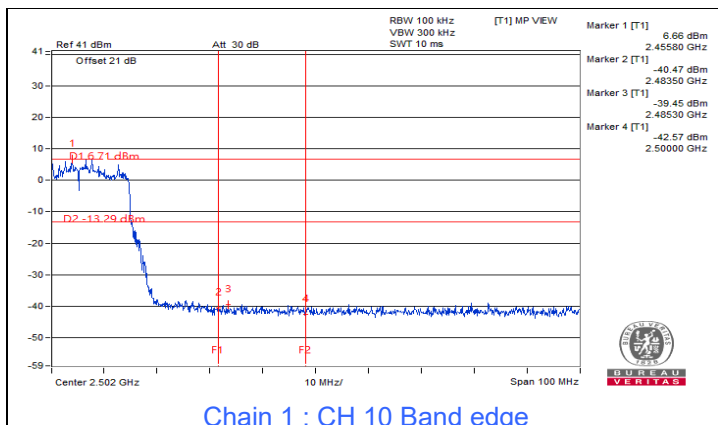




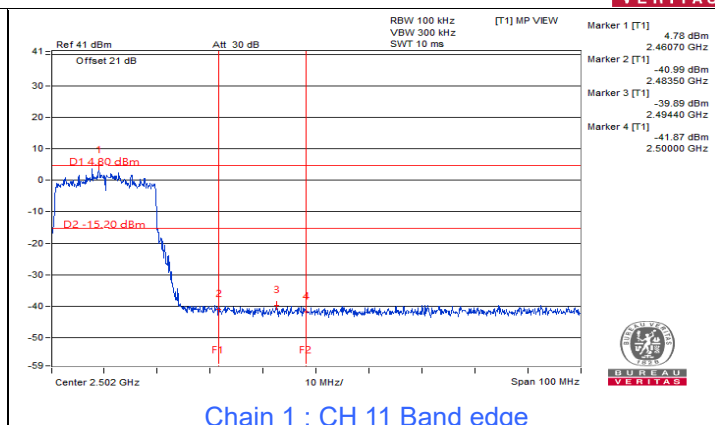




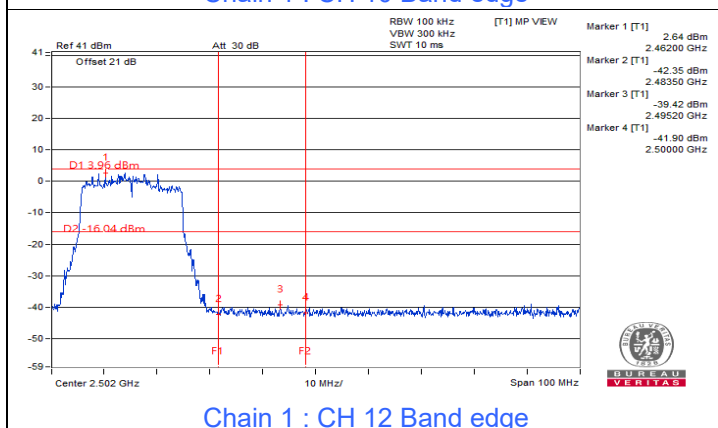




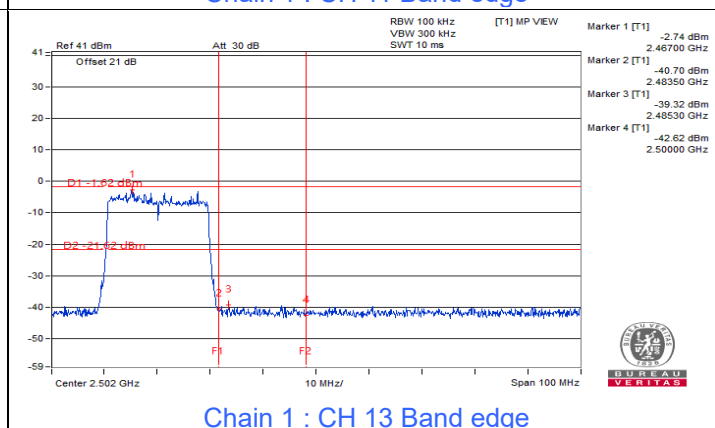
Chain 1 : CH 10 Band edge



Chain 1 : CH 11 Band edge



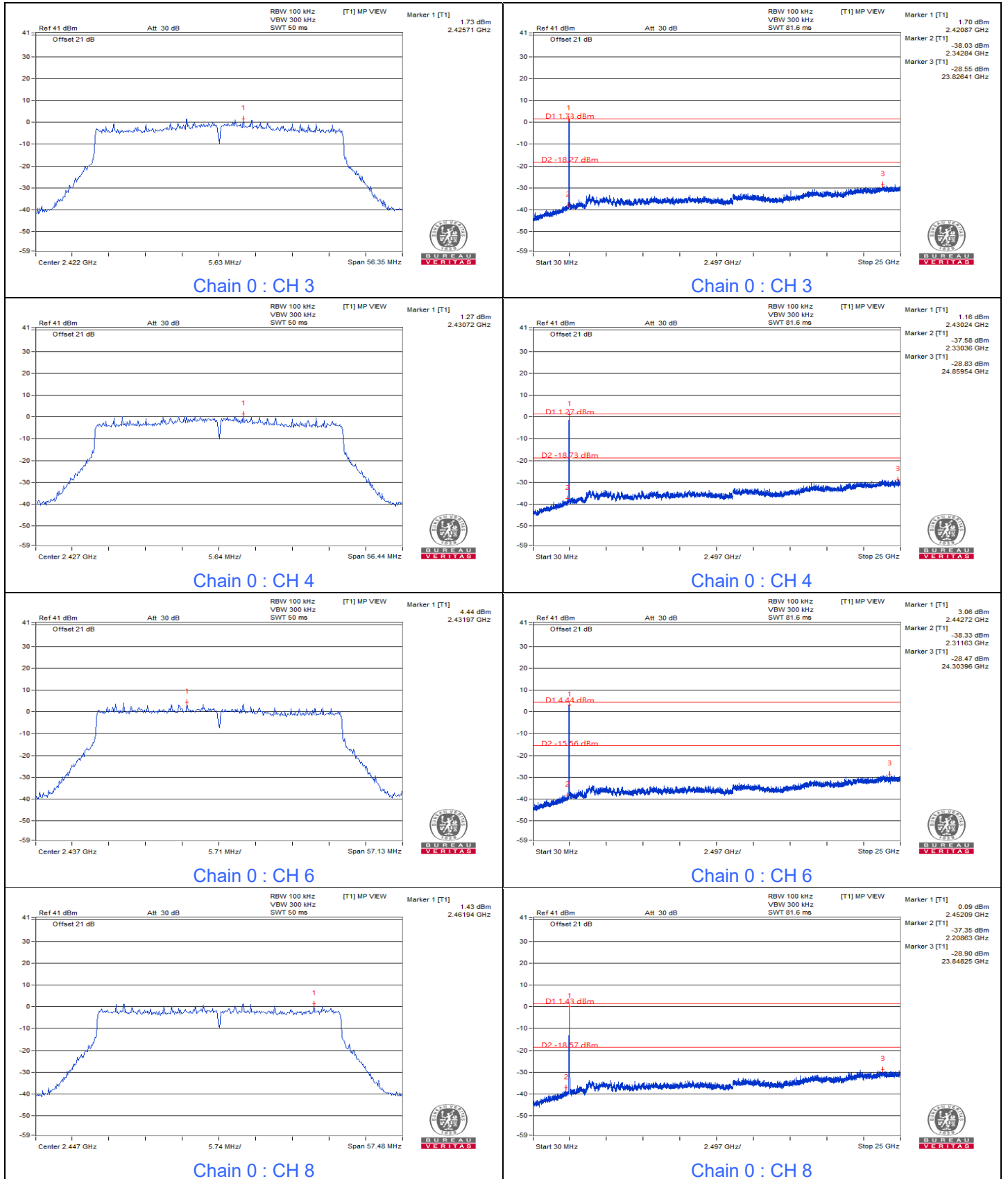
Chain 1 : CH 12 Band edge

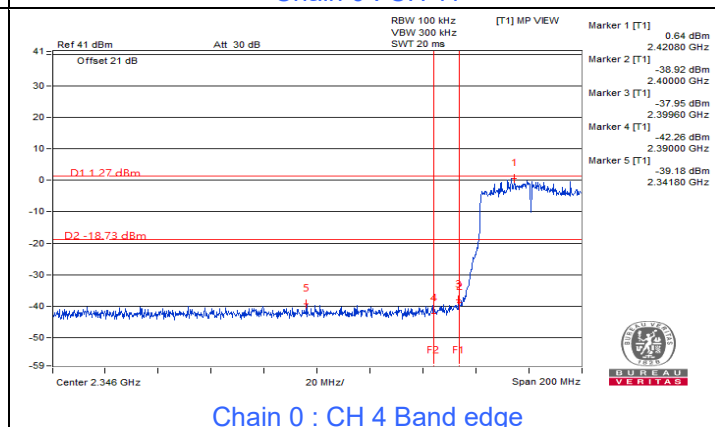
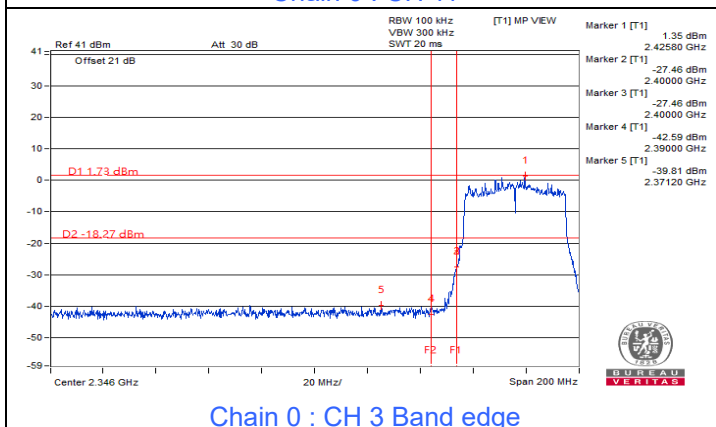
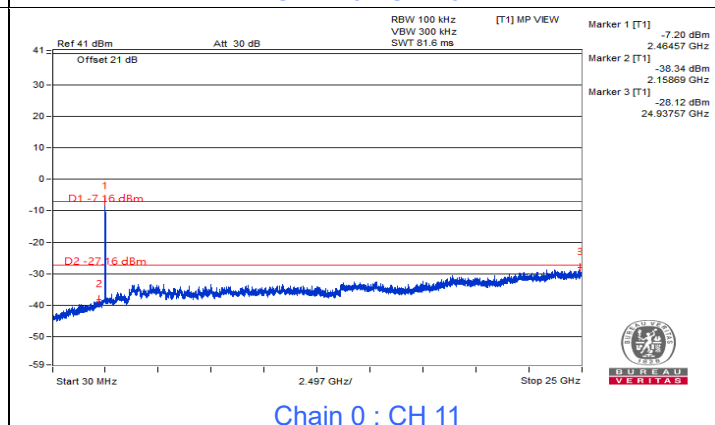
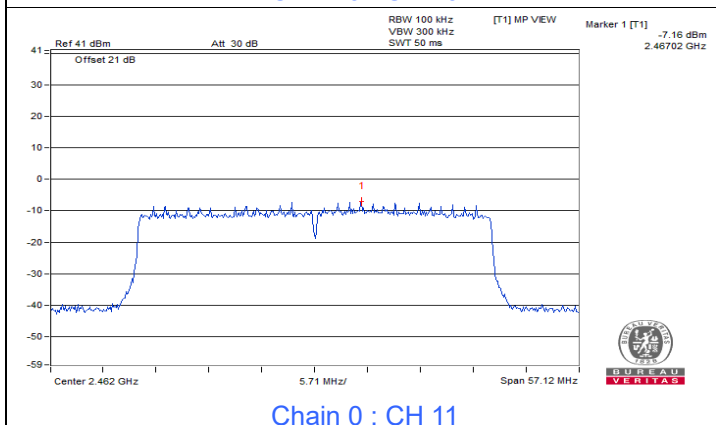
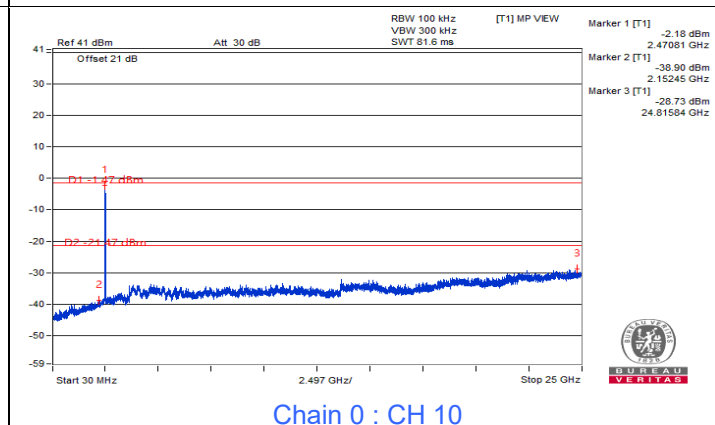
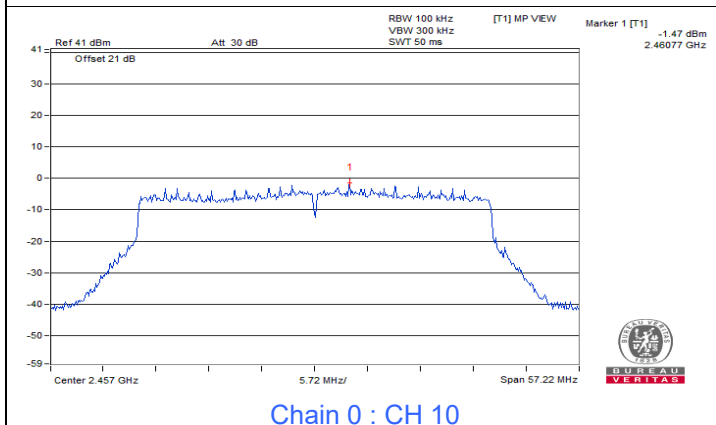
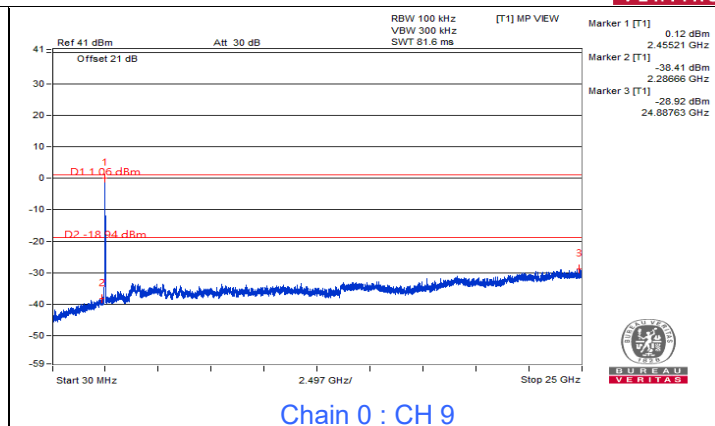
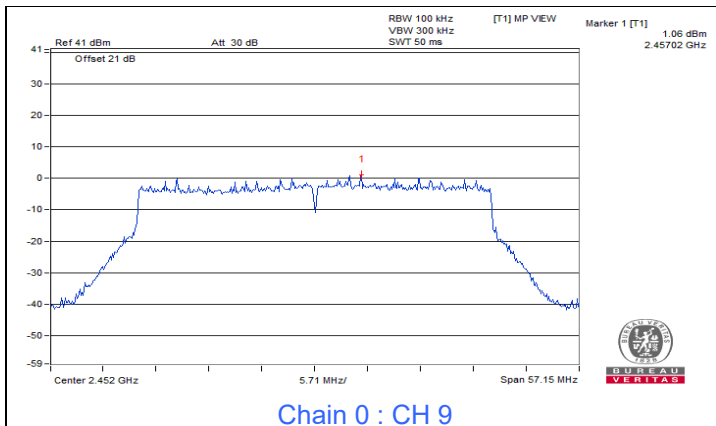


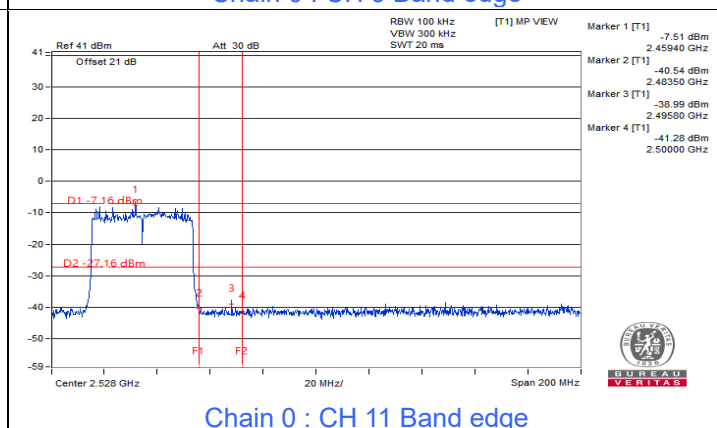
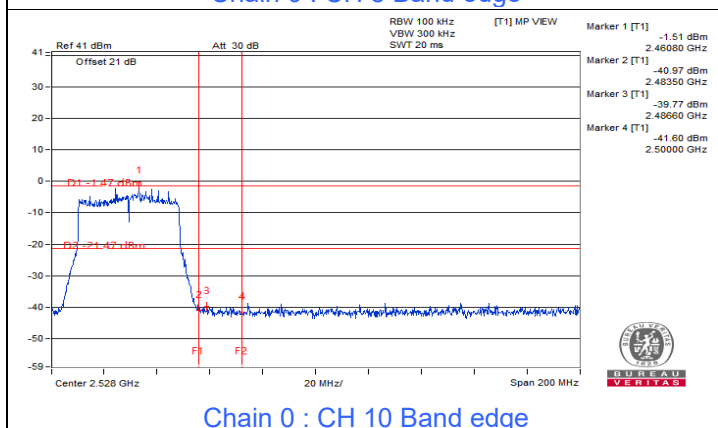
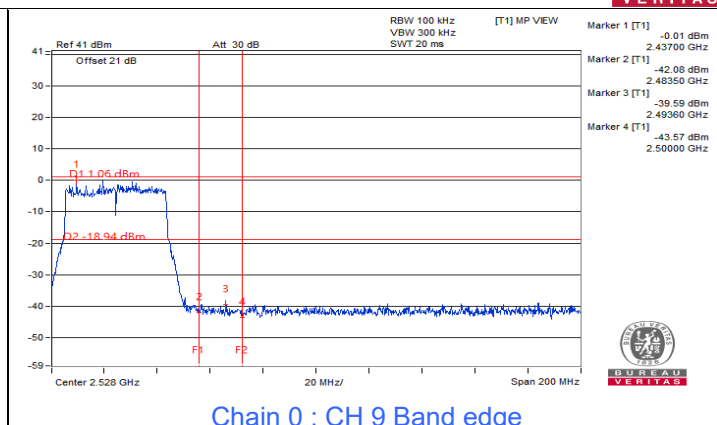
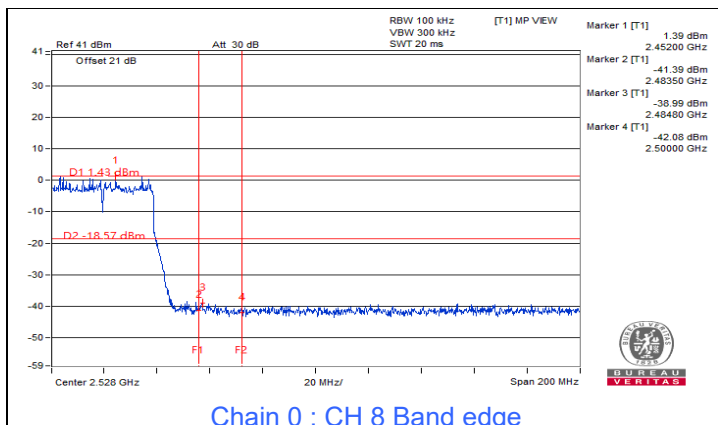
Chain 1 : CH 13 Band edge

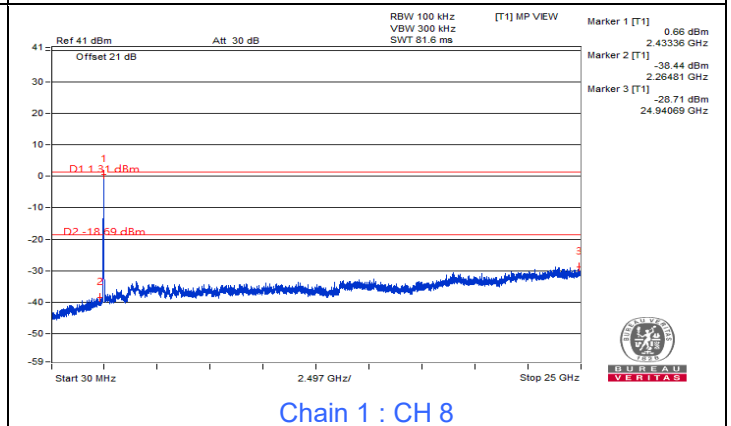
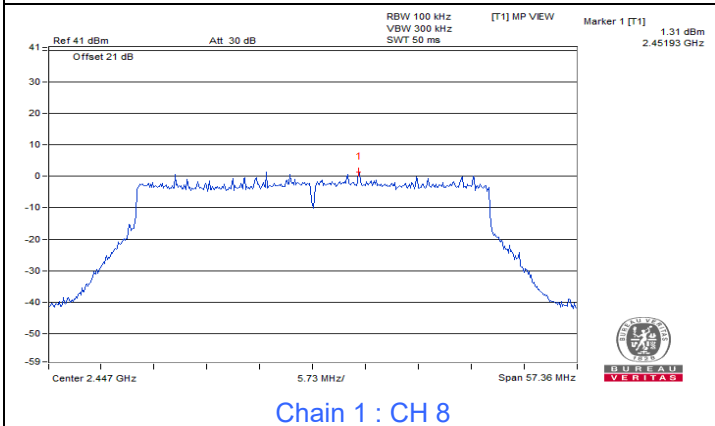
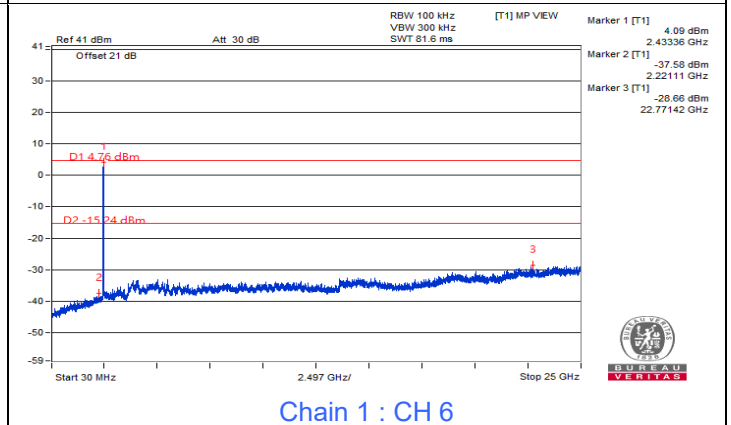
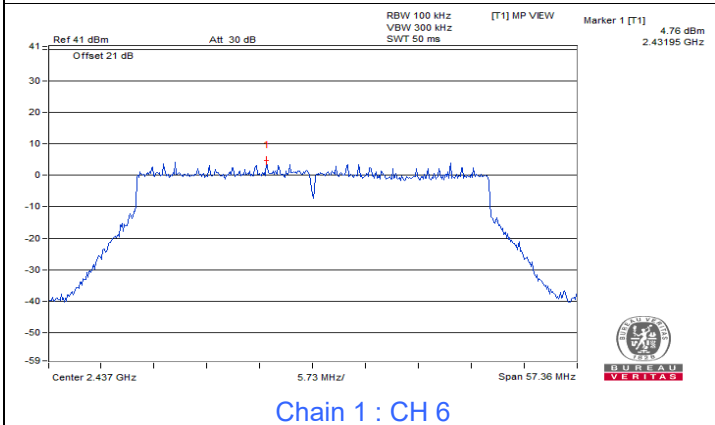
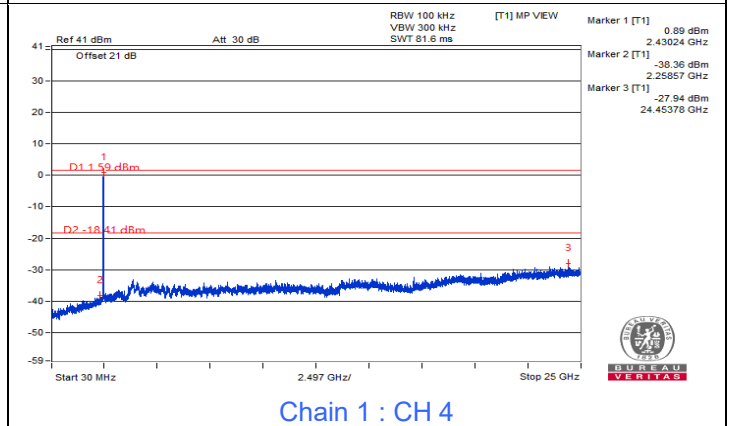
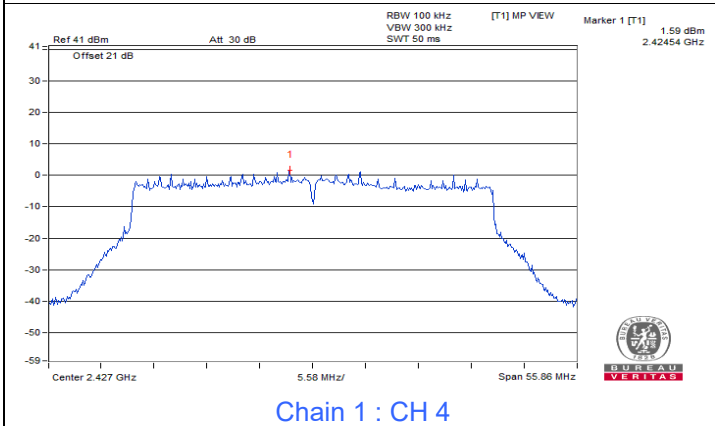
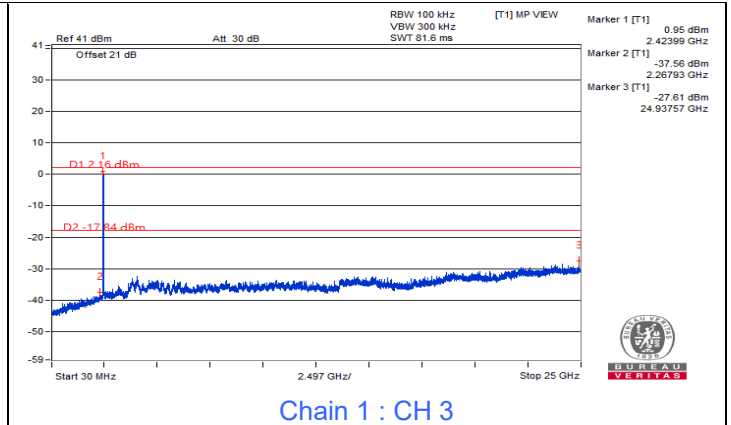
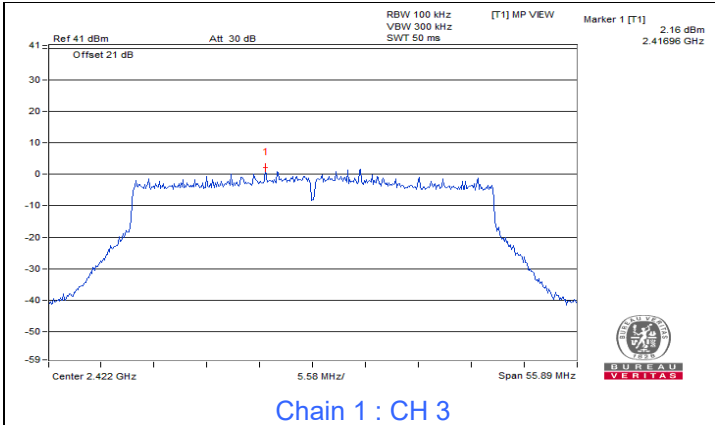


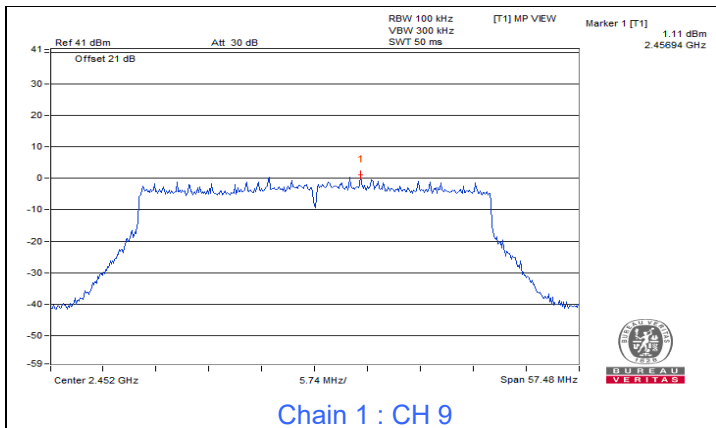
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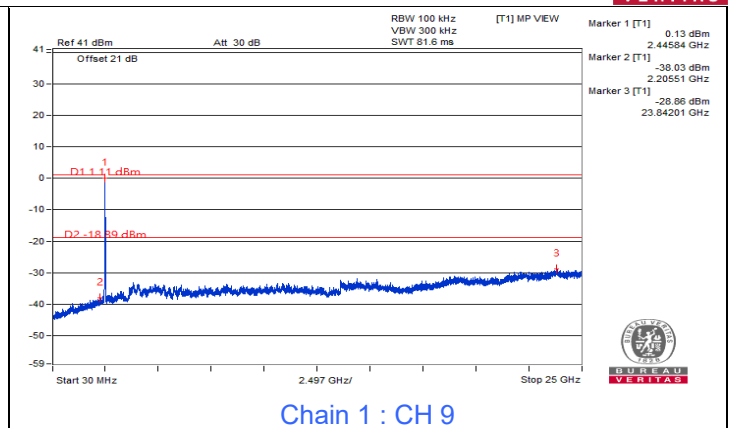




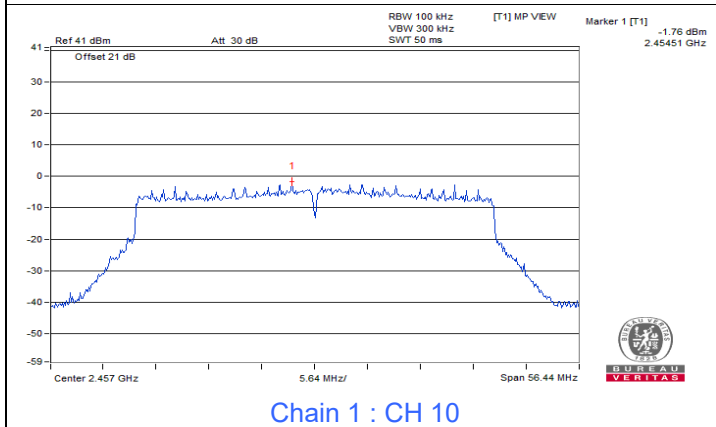




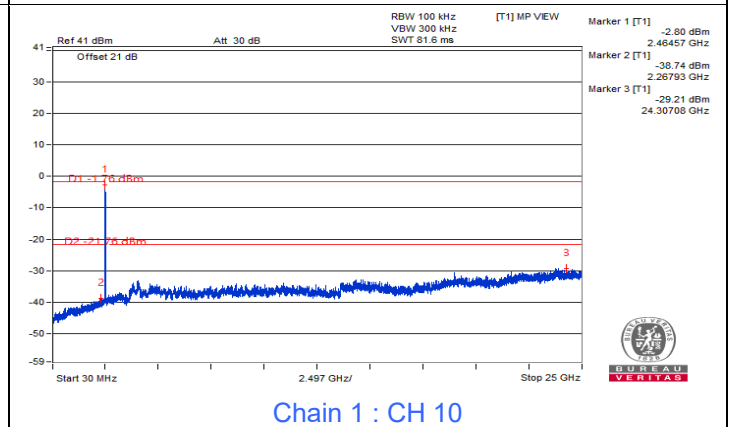
Chain 1 : CH 9



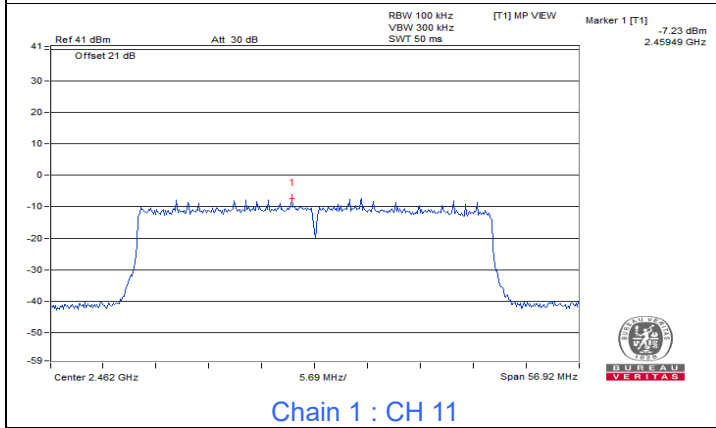
Chain 1 : CH 9



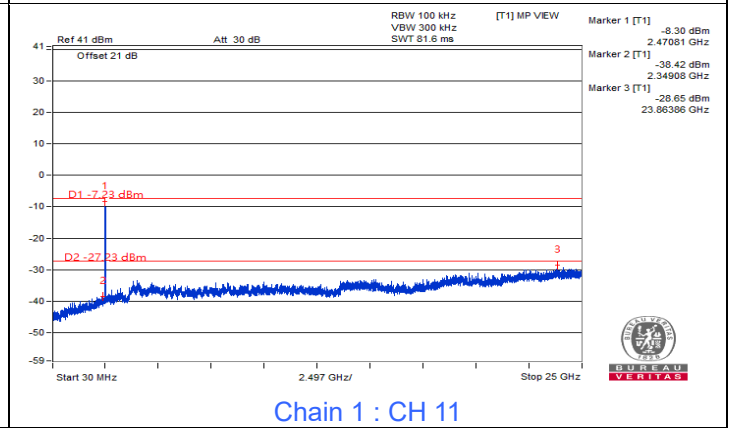
Chain 1 : CH 10



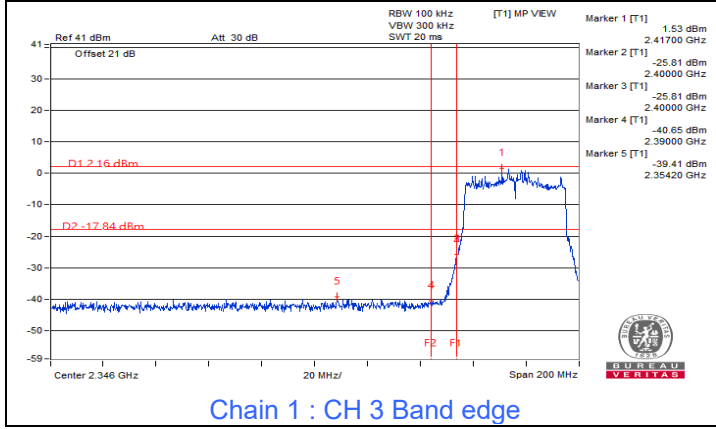
Chain 1 : CH 10



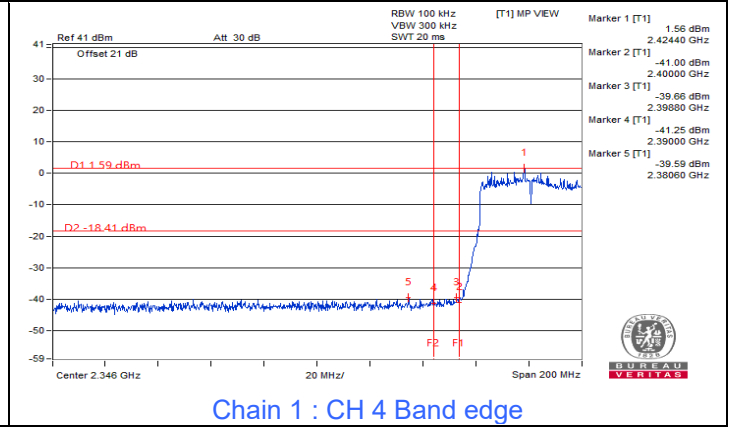
Chain 1 : CH 11



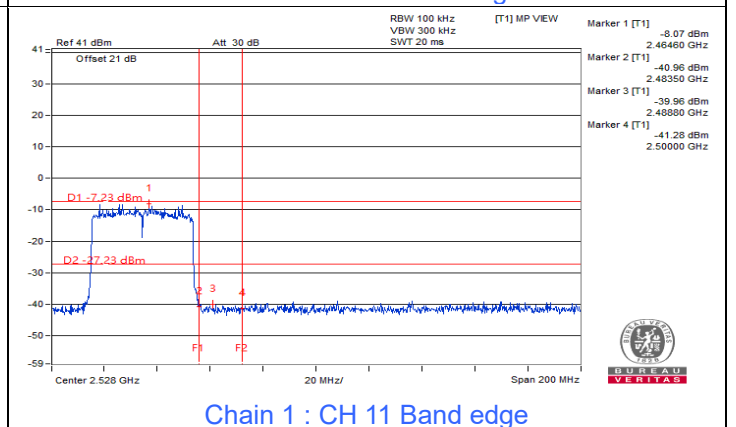
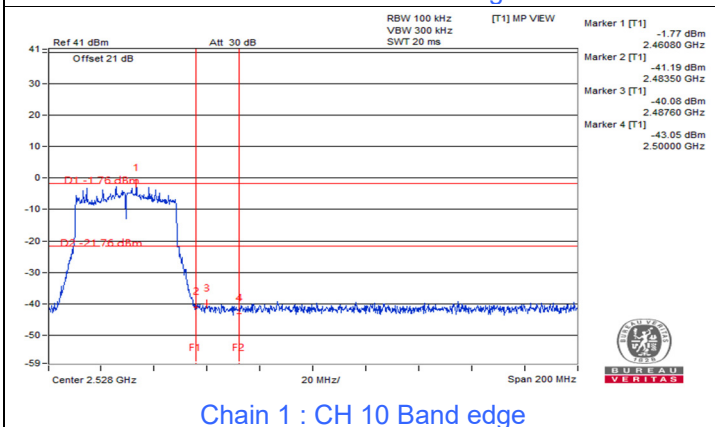
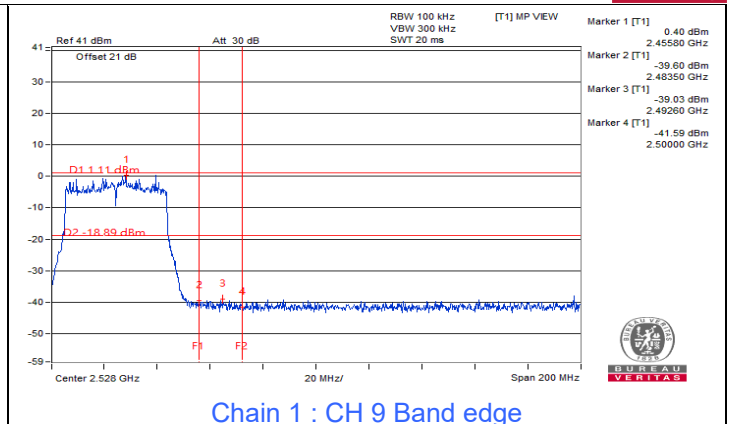
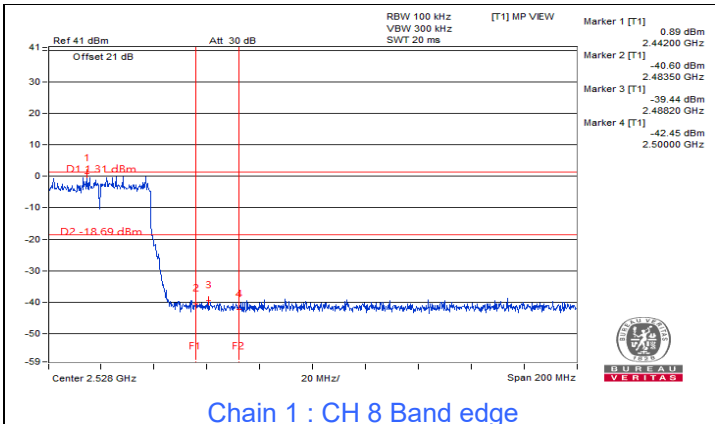
Chain 1 : CH 11



Chain 1 : CH 3 Band edge



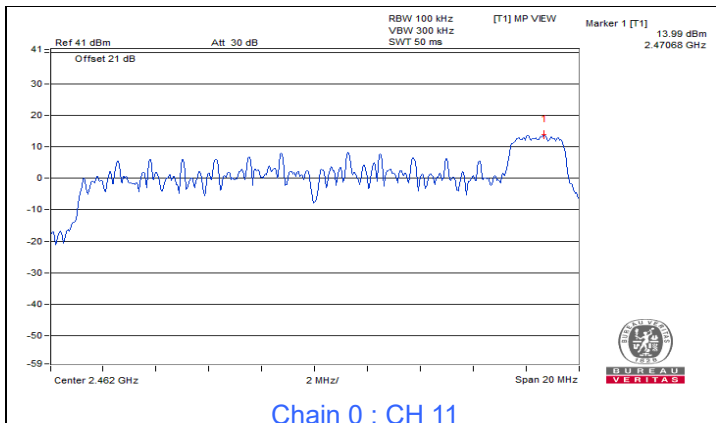
Chain 1 : CH 4 Band edge



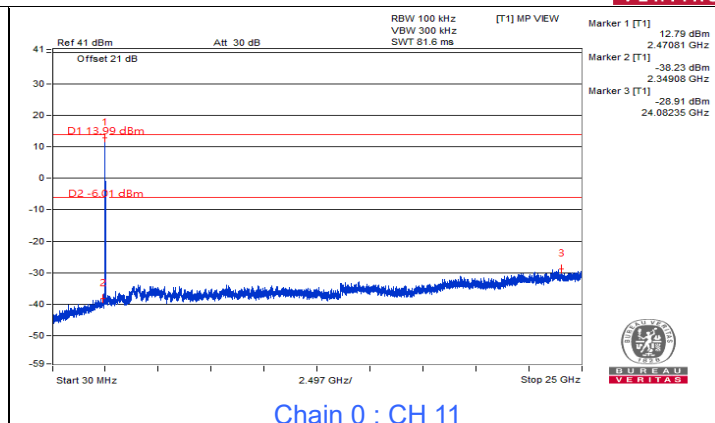


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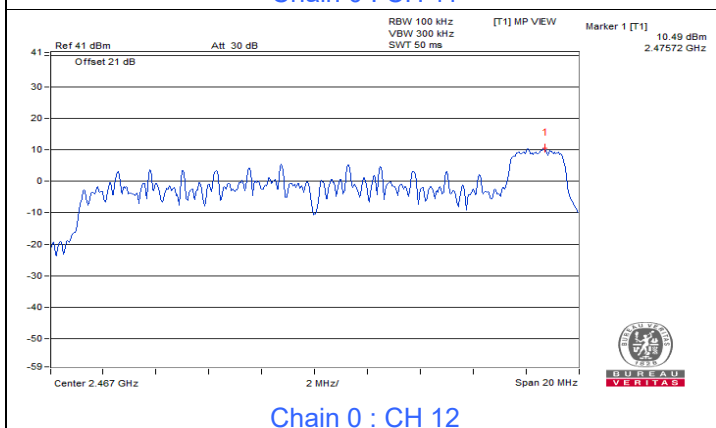




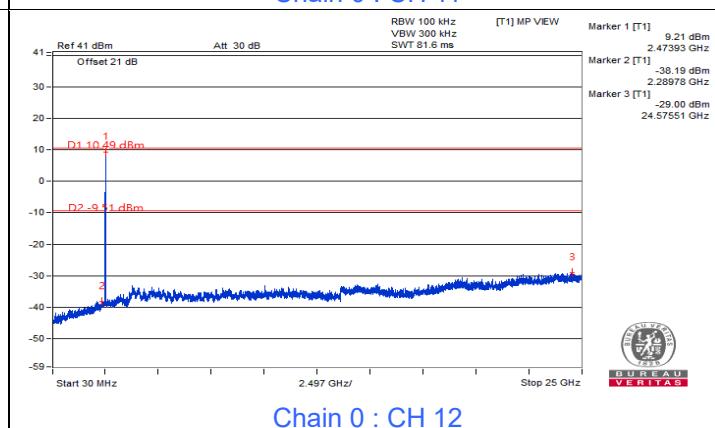
Chain 0 : CH 11



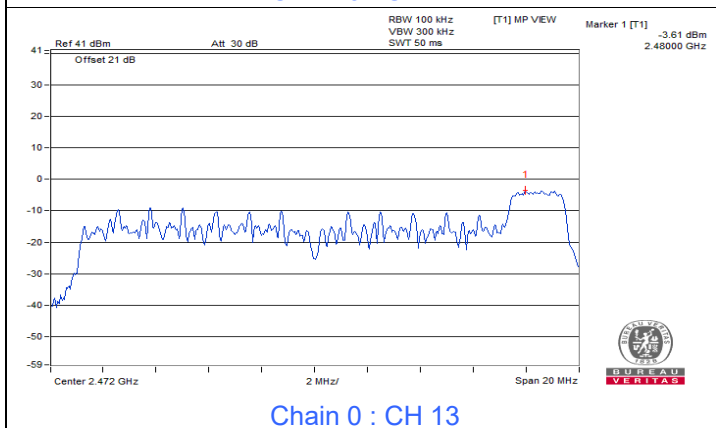
Chain 0 : CH 11



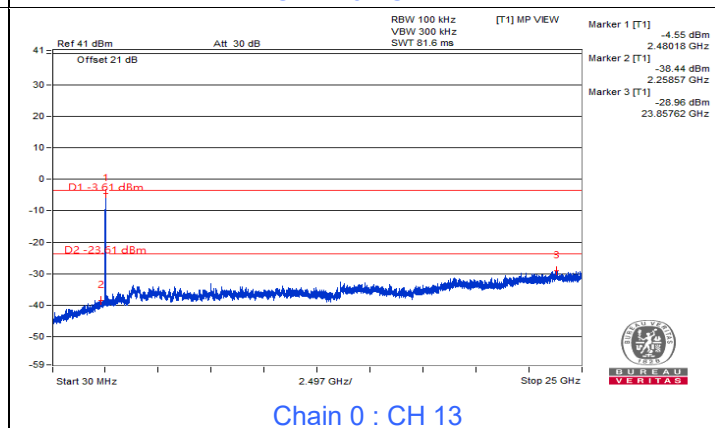
Chain 0 : CH 12



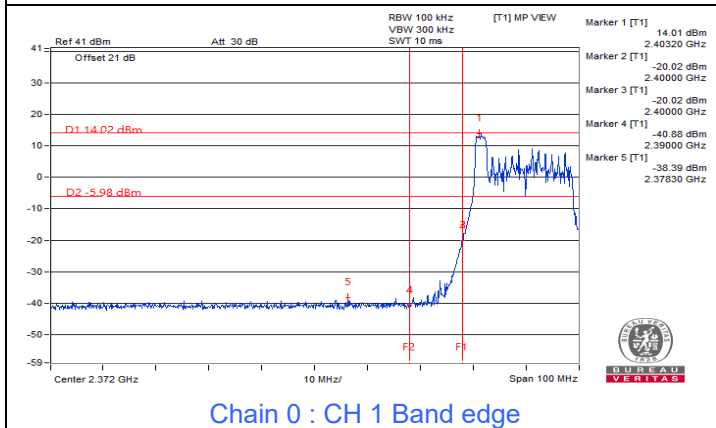
Chain 0 : CH 12



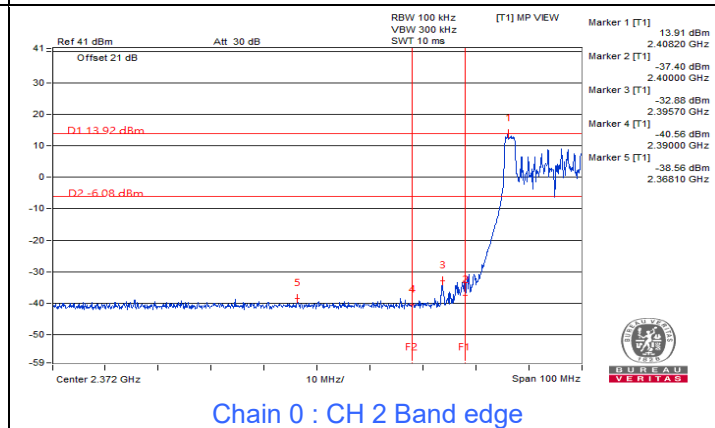
Chain 0 : CH 13



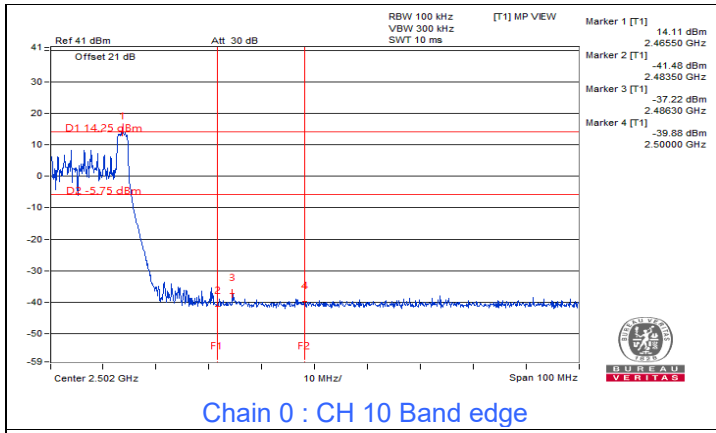
Chain 0 : CH 13



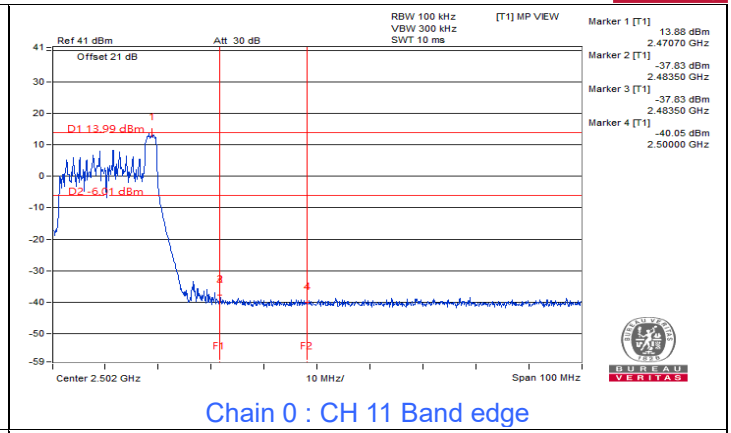
Chain 0 : CH 1 Band edge



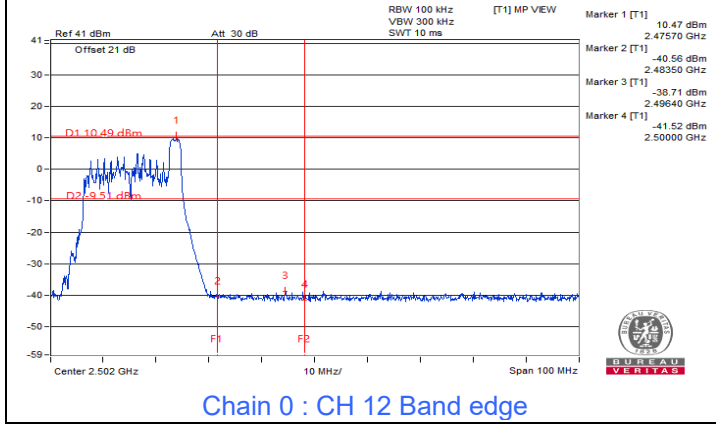
Chain 0 : CH 2 Band edge



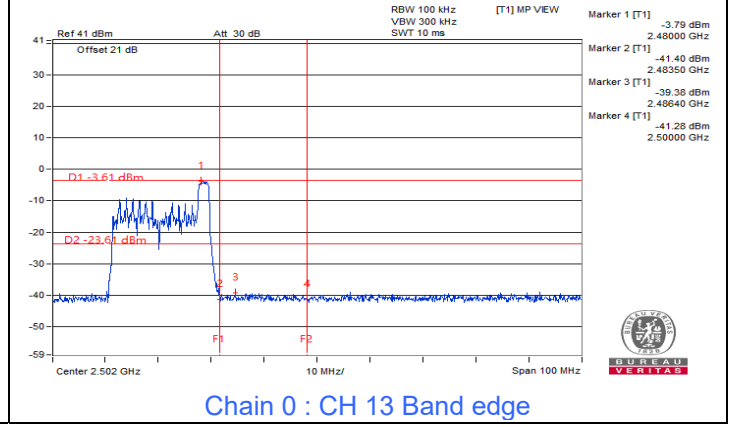
Chain 0 : CH 10 Band edge



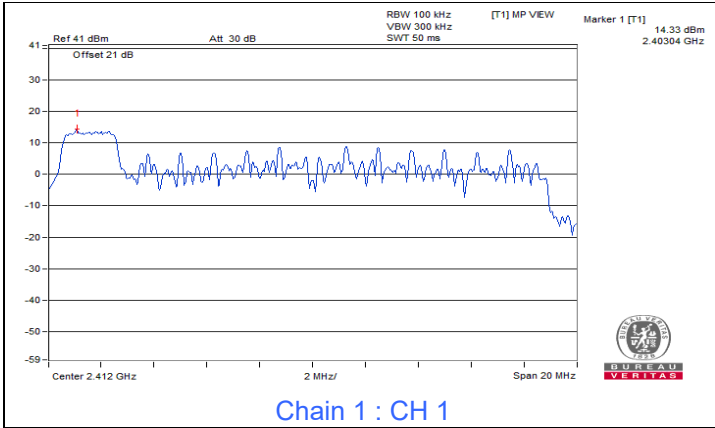
Chain 0 : CH 11 Band edge



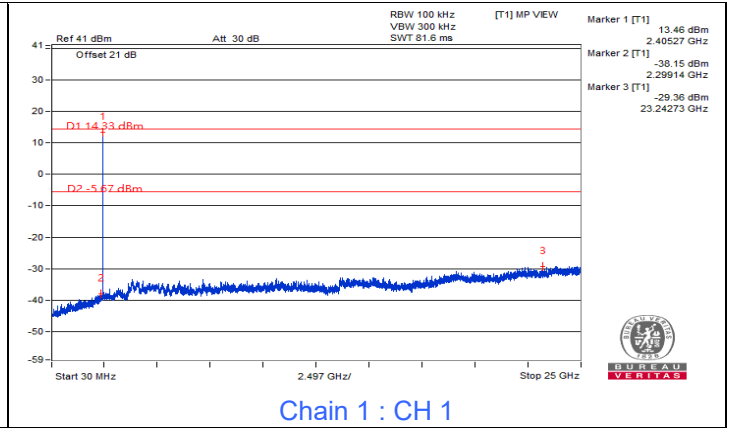
Chain 0 : CH 12 Band edge



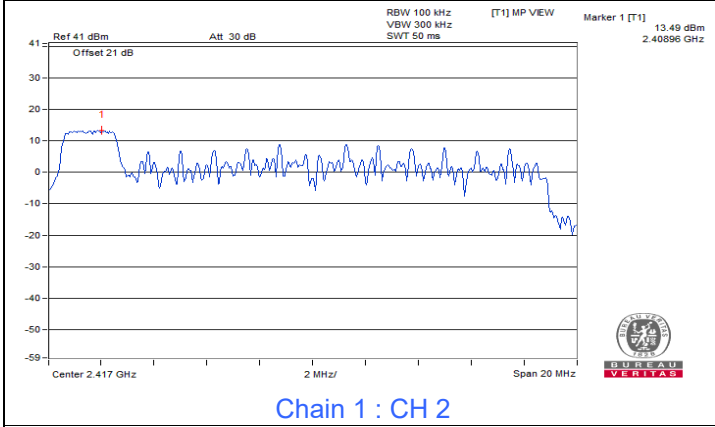
Chain 0 : CH 13 Band edge



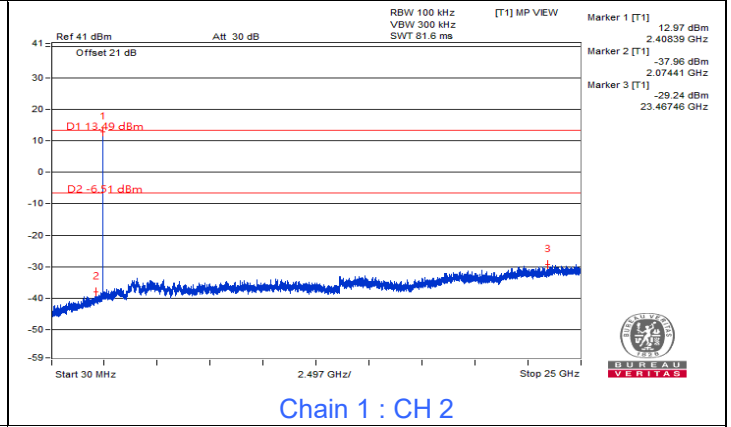
Chain 1 : CH 1



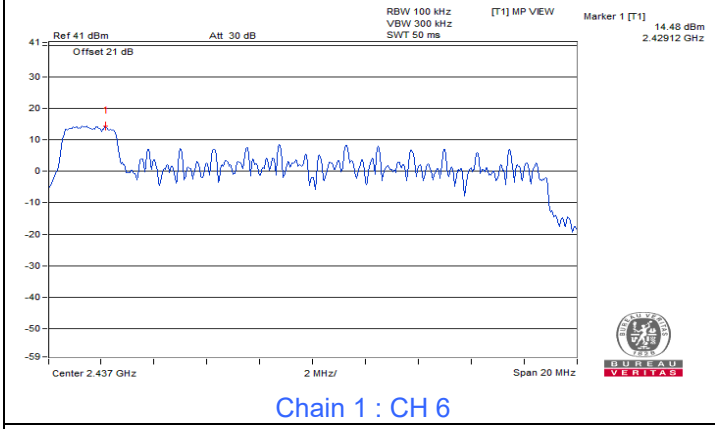
Chain 1 : CH 1



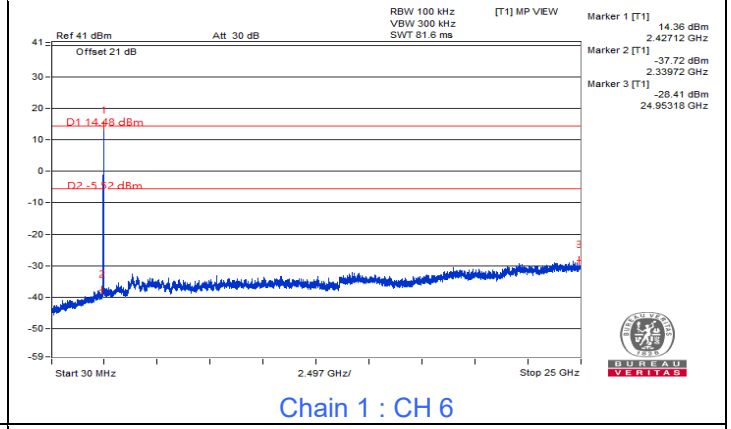
Chain 1 : CH 2



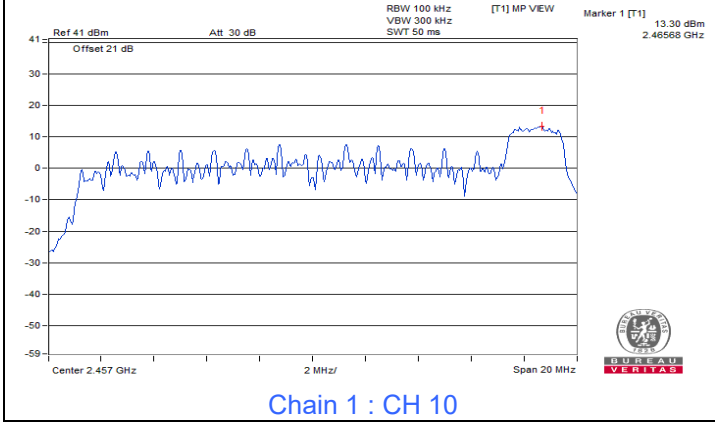
Chain 1 : CH 2



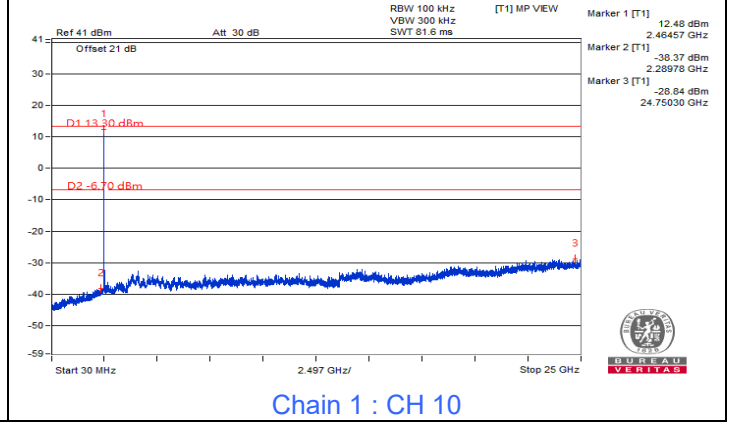
Chain 1 : CH 6



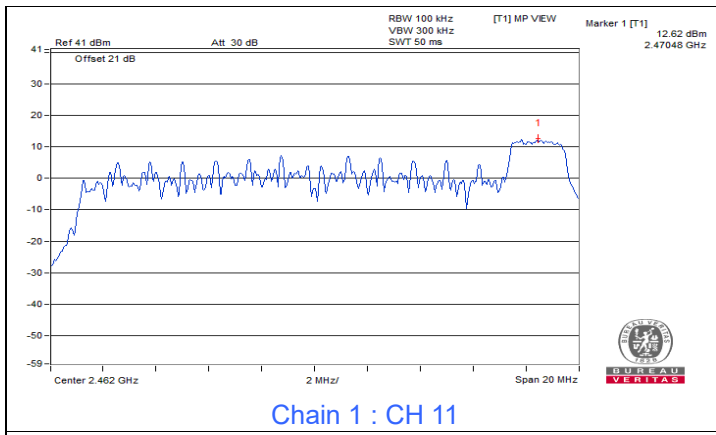
Chain 1 : CH 6



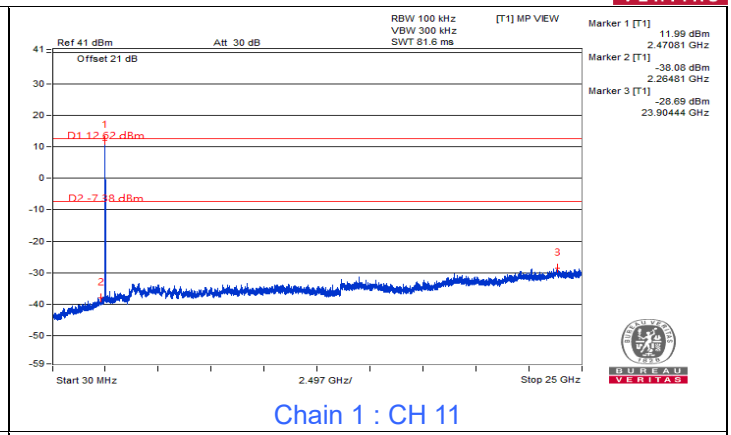
Chain 1 : CH 10



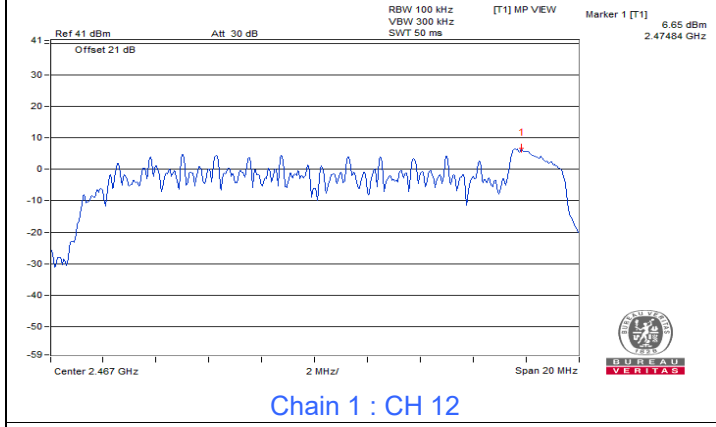
Chain 1 : CH 10



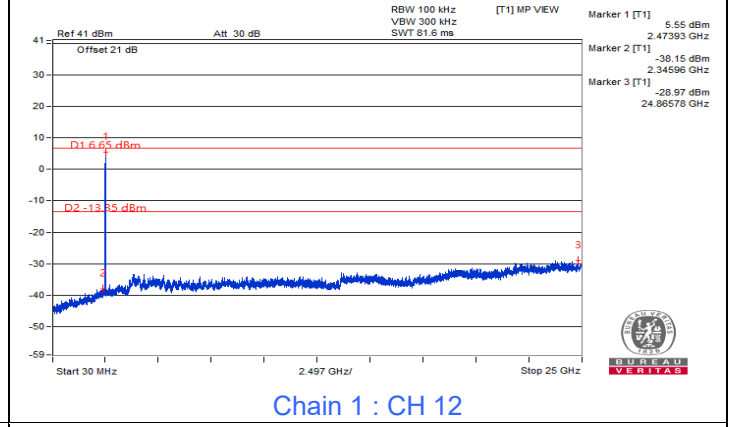
Chain 1 : CH 11



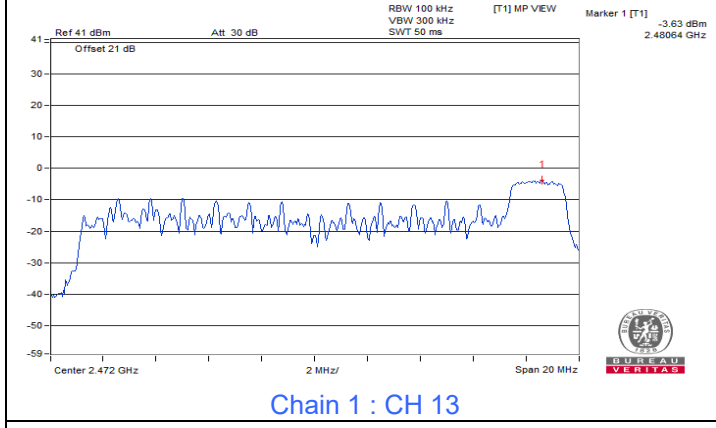
Chain 1 : CH 11



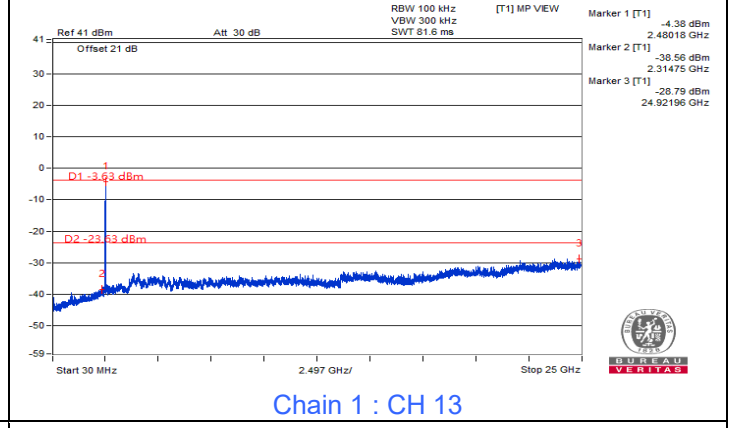
Chain 1 : CH 12



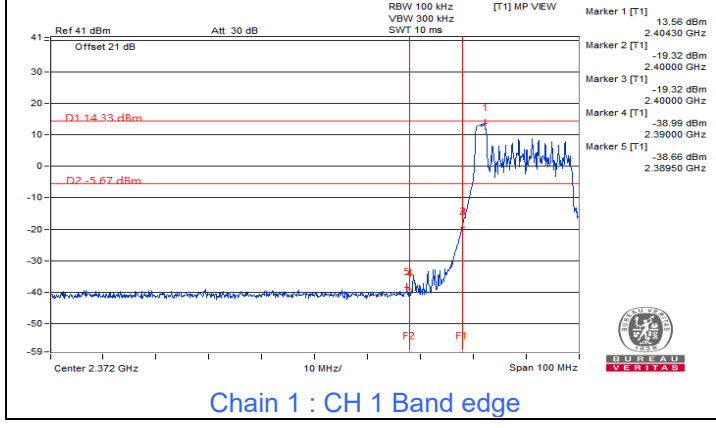
Chain 1 : CH 12



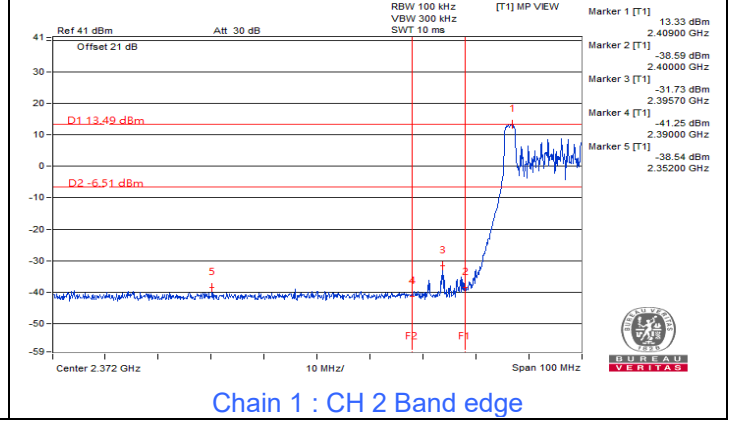
Chain 1 : CH 13



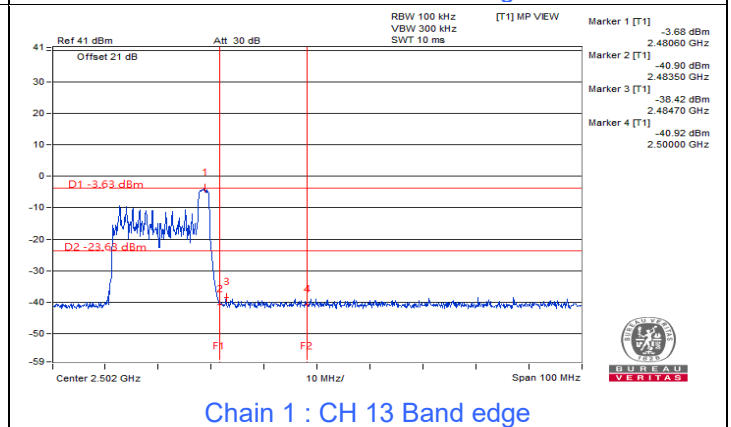
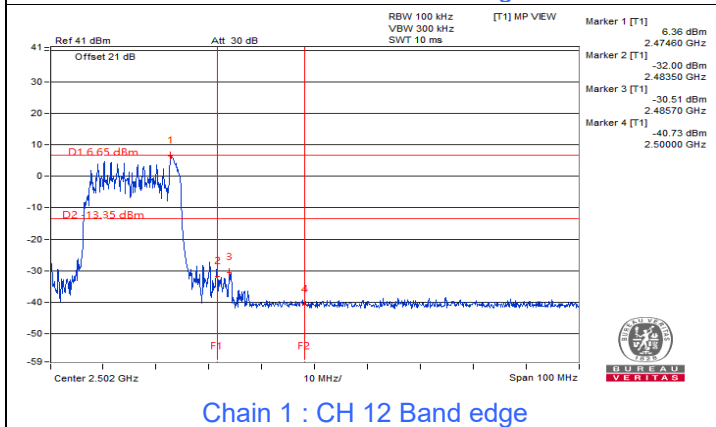
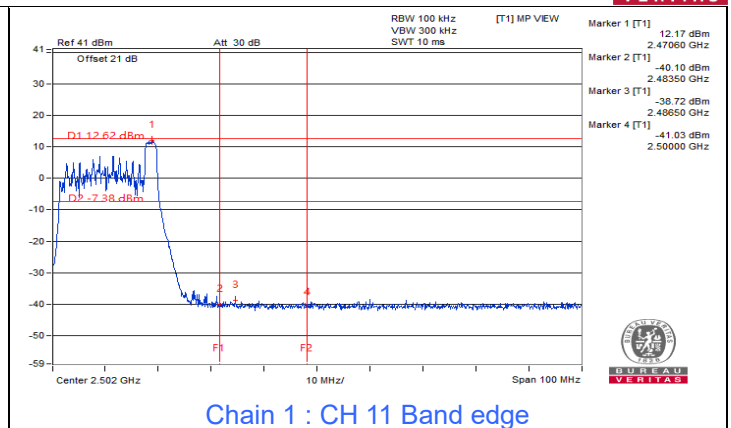
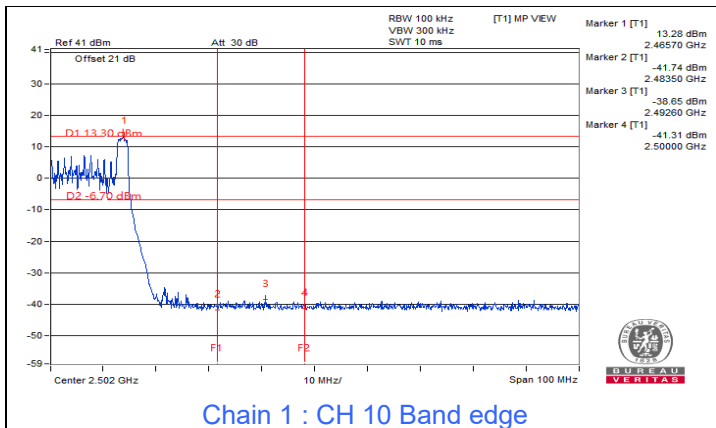
Chain 1 : CH 13



Chain 1 : CH 1 Band edge

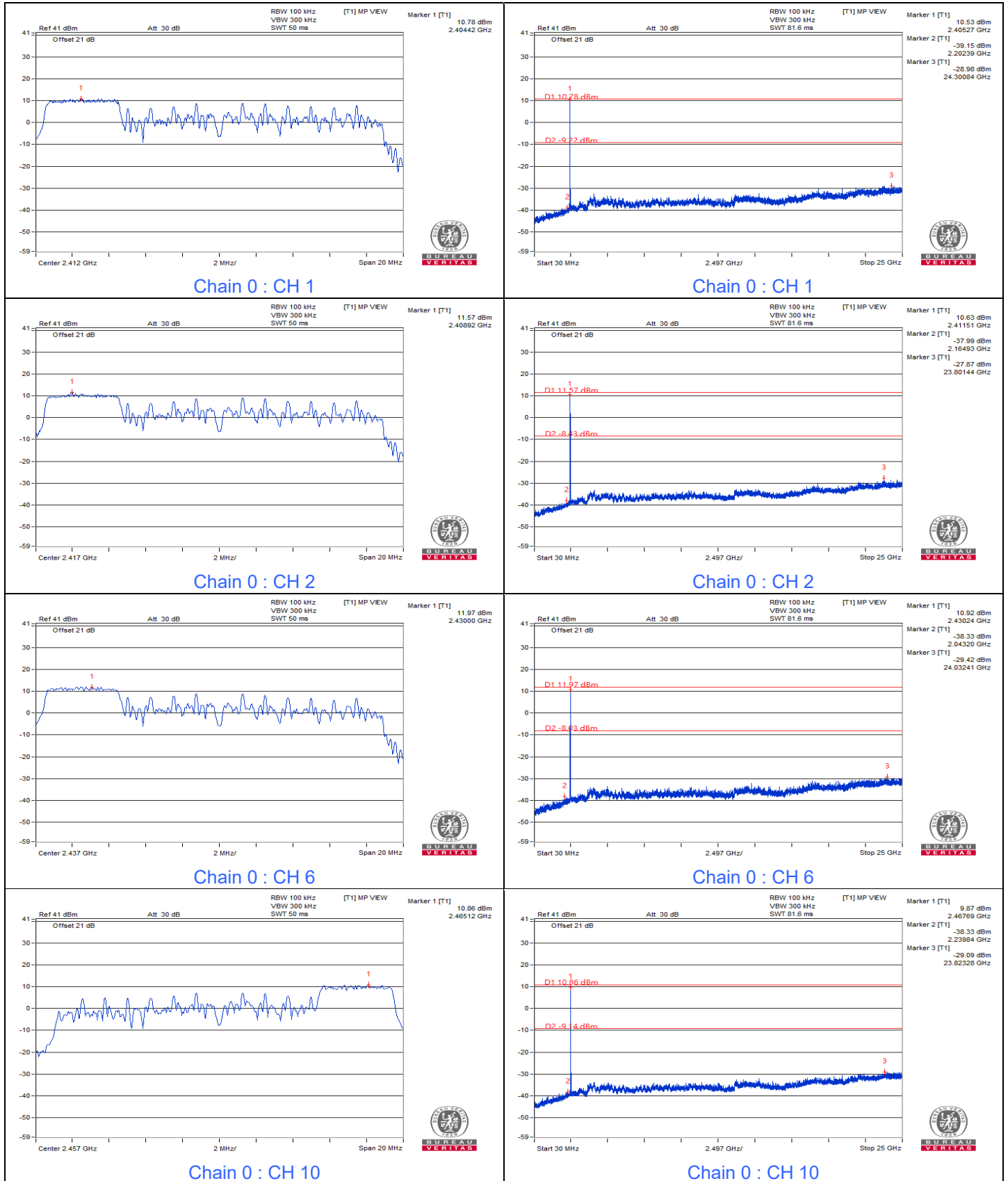


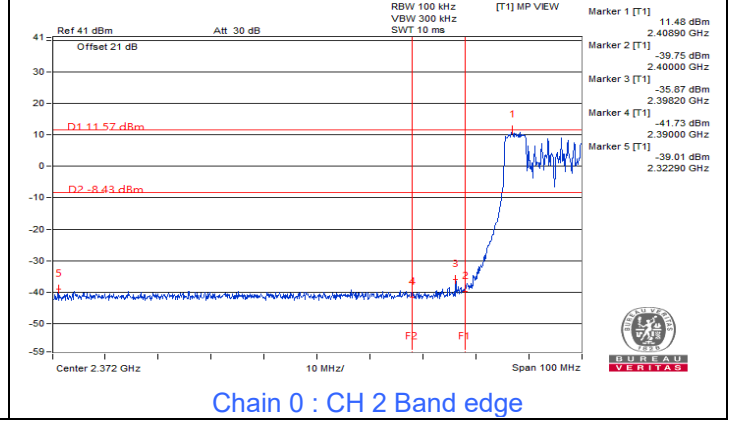
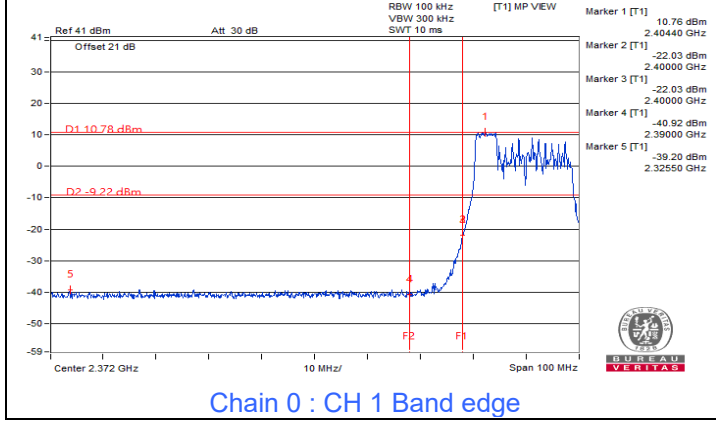
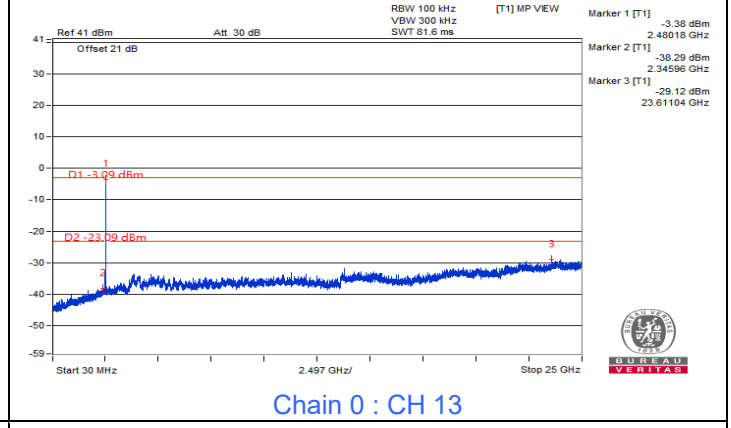
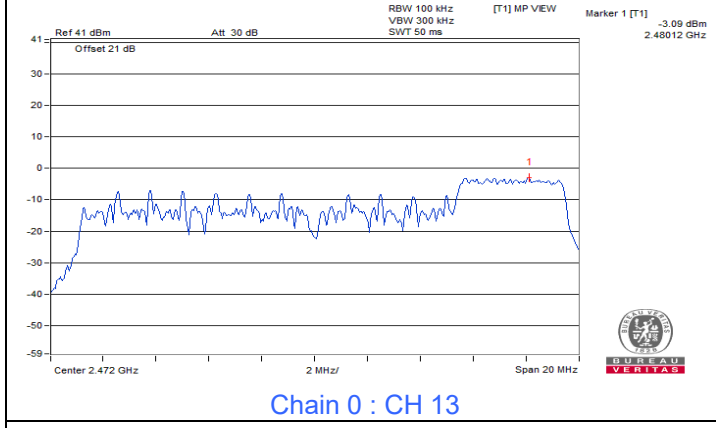
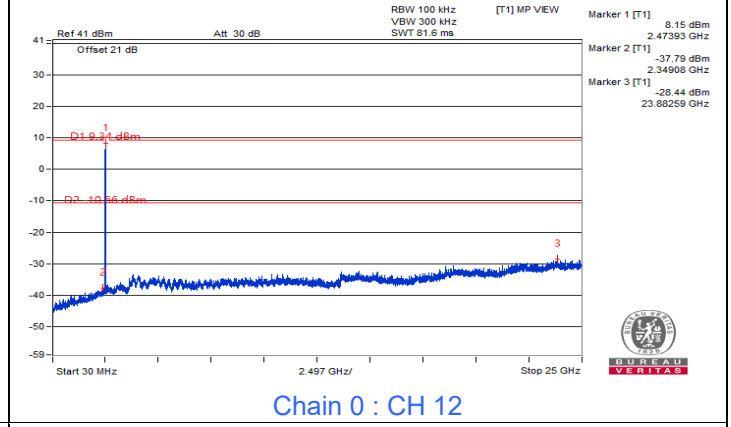
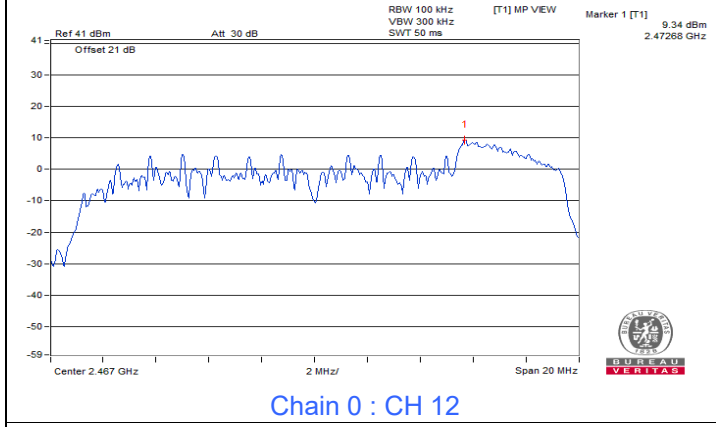
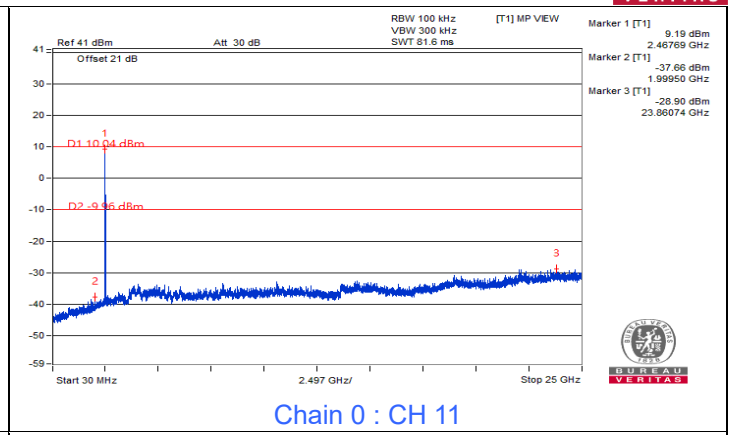
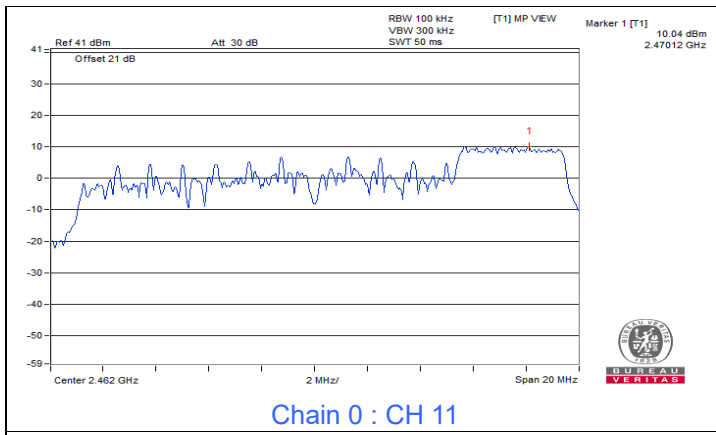
Chain 1 : CH 2 Band edge

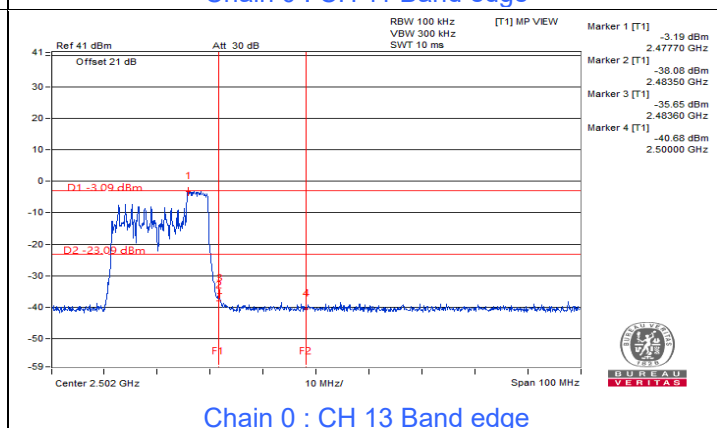
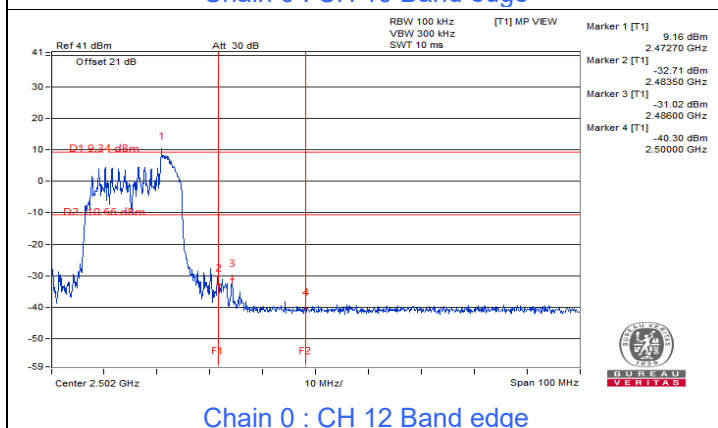
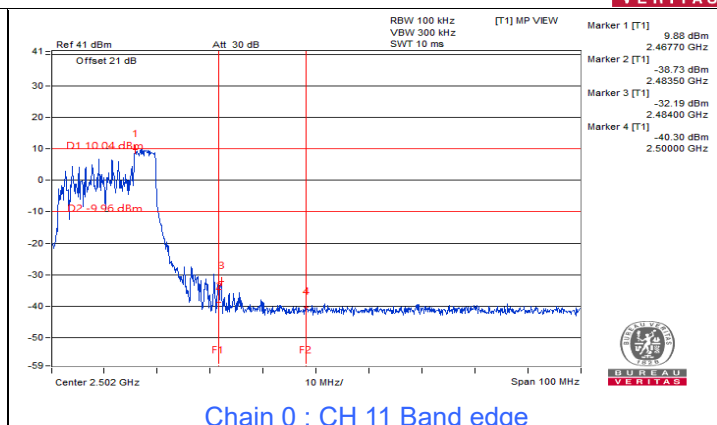
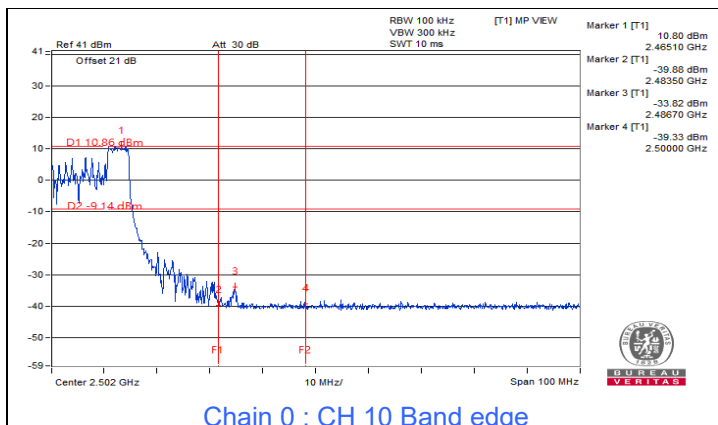


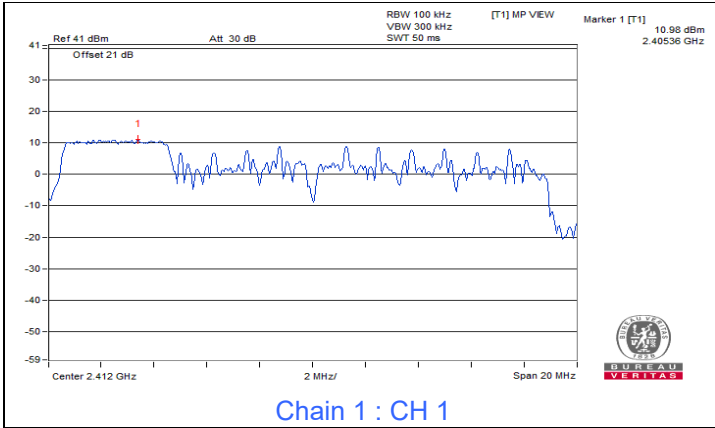


802.11be (EHT20) 52-tone RU

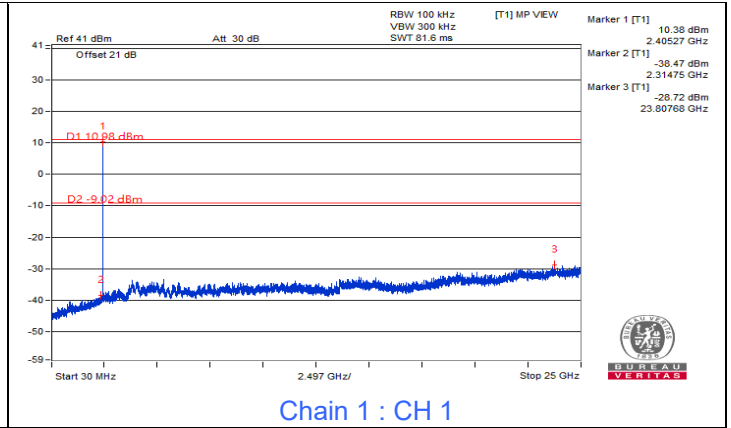




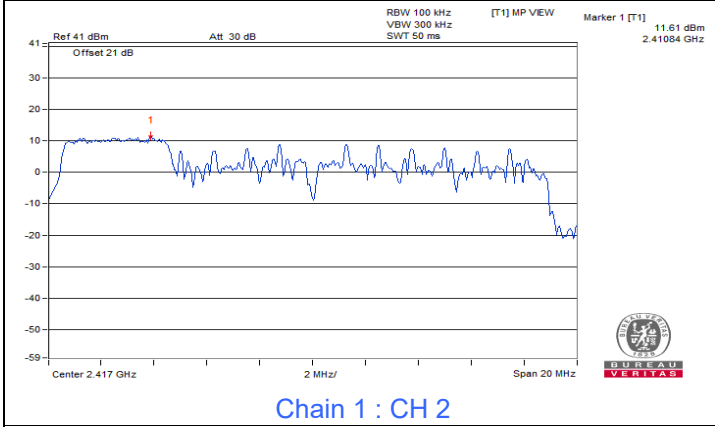




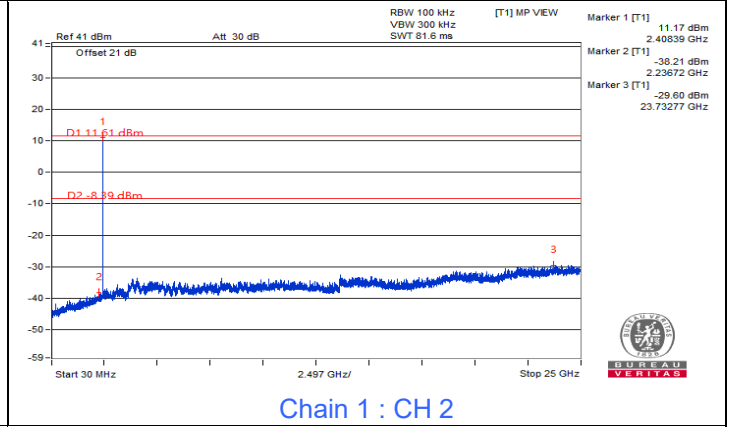
Chain 1 : CH 1



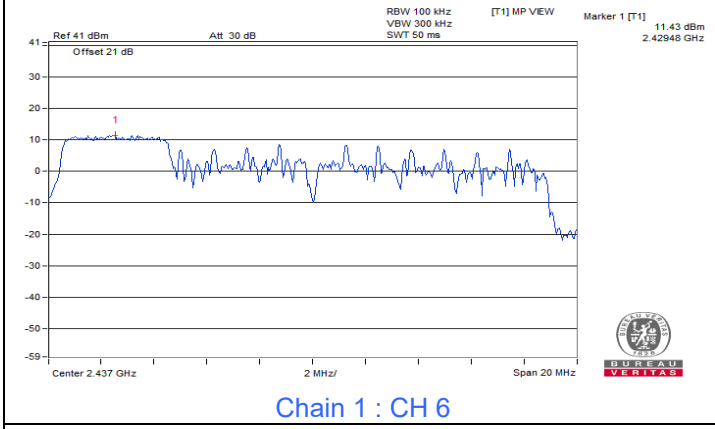
Chain 1 : CH 1



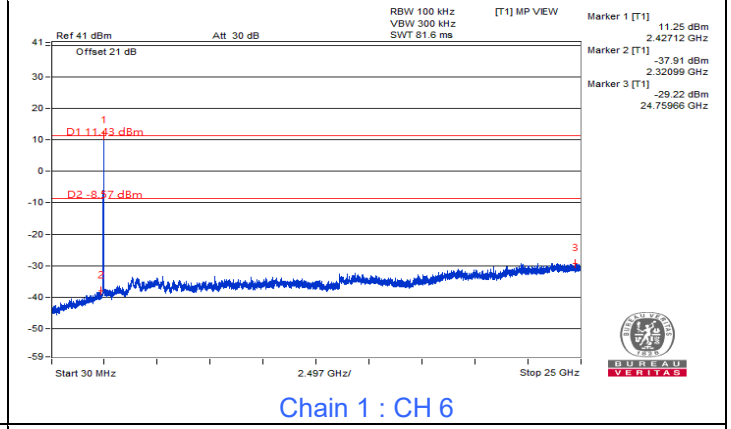
Chain 1 : CH 2



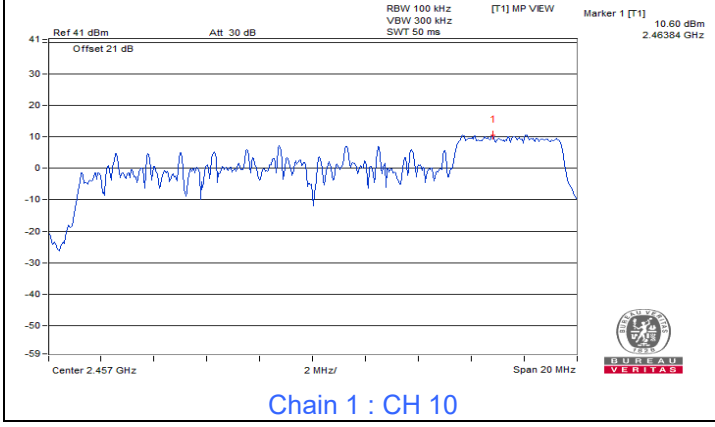
Chain 1 : CH 2



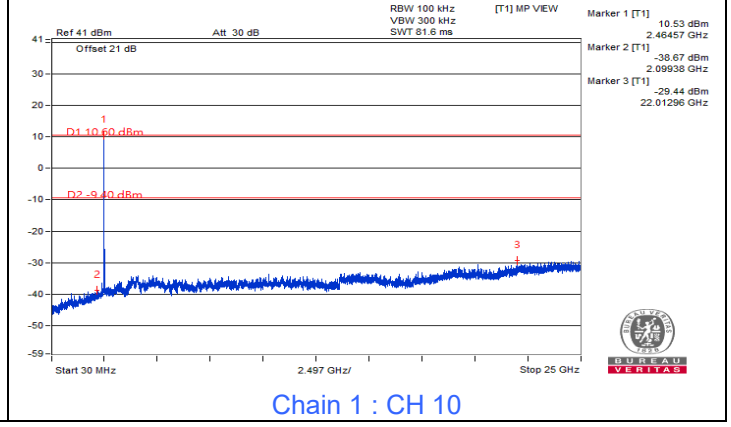
Chain 1 : CH 6



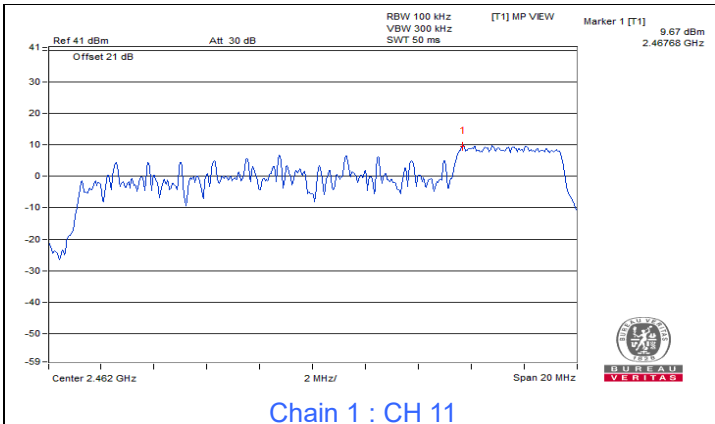
Chain 1 : CH 6



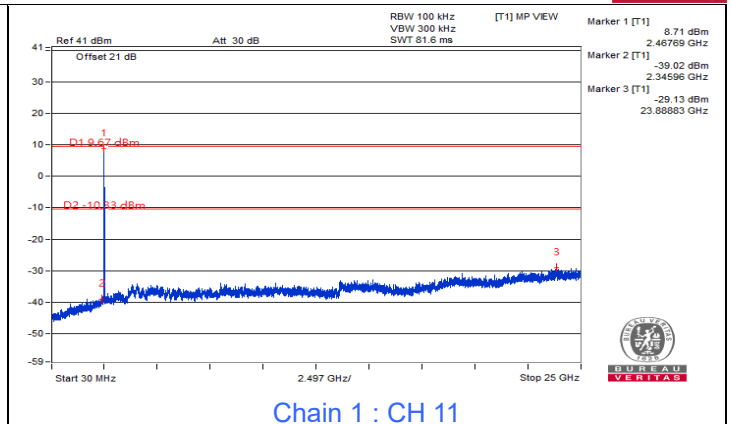
Chain 1 : CH 10



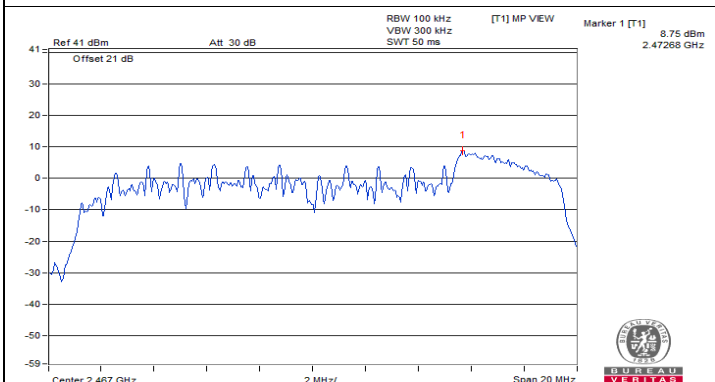
Chain 1 : CH 10



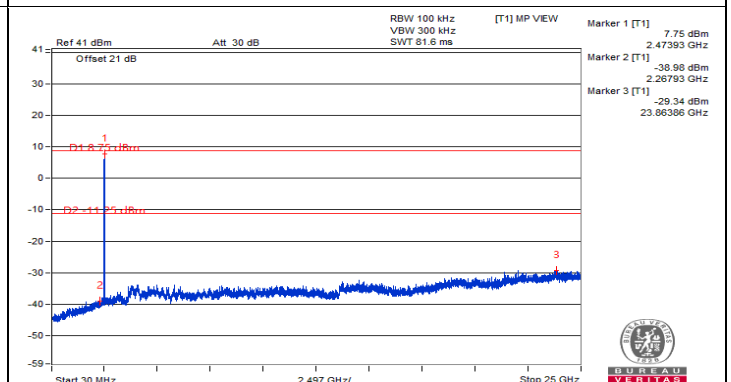
Chain 1 : CH 11



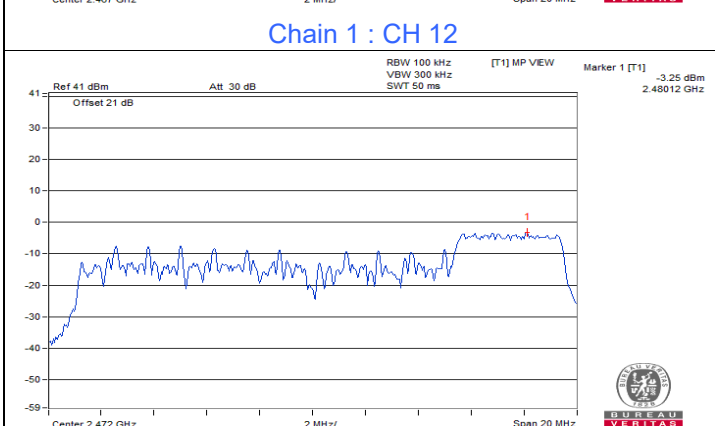
Chain 1 : CH 11



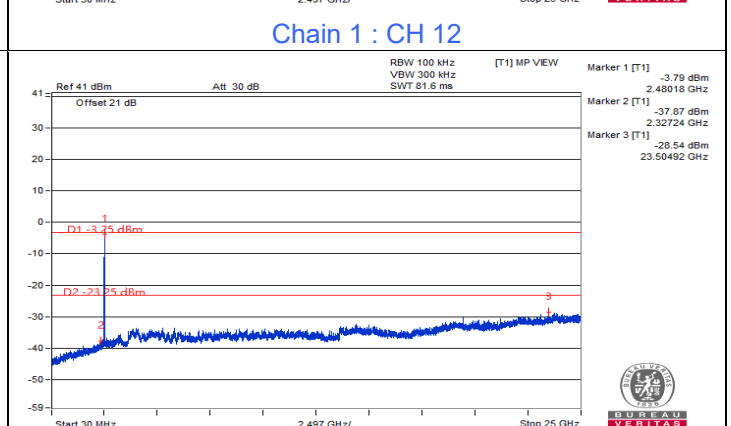
Chain 1 : CH 12



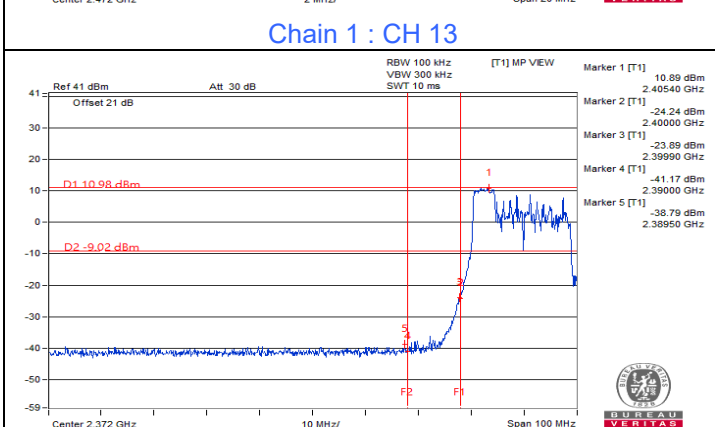
Chain 1 : CH 12



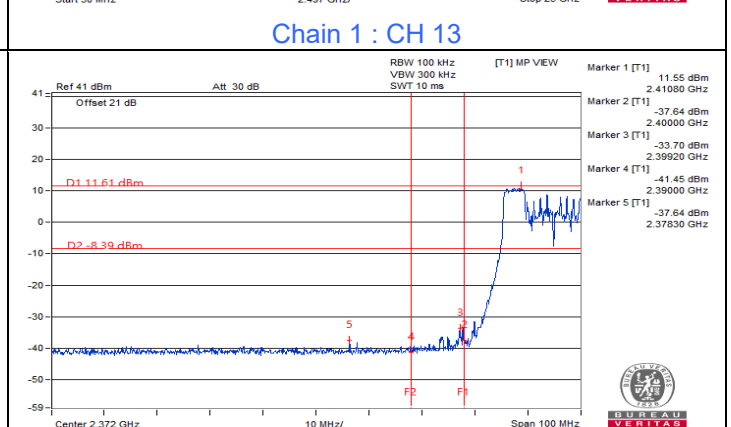
Chain 1 : CH 13



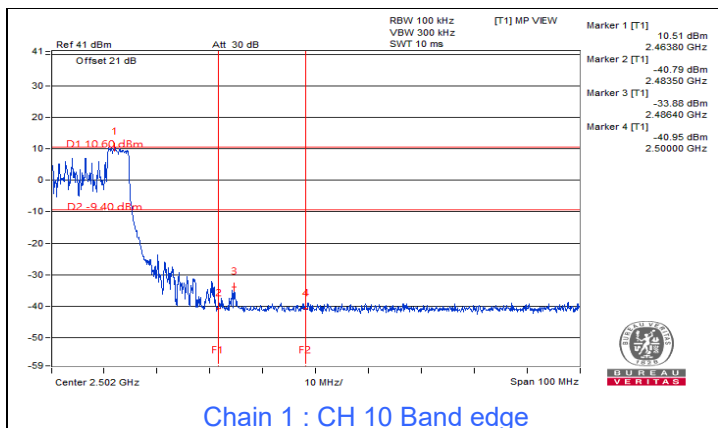
Chain 1 : CH 13



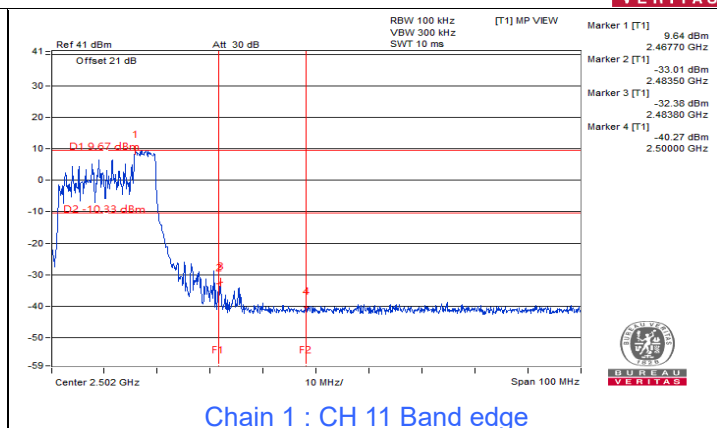
Chain 1 : CH 1 Band edge



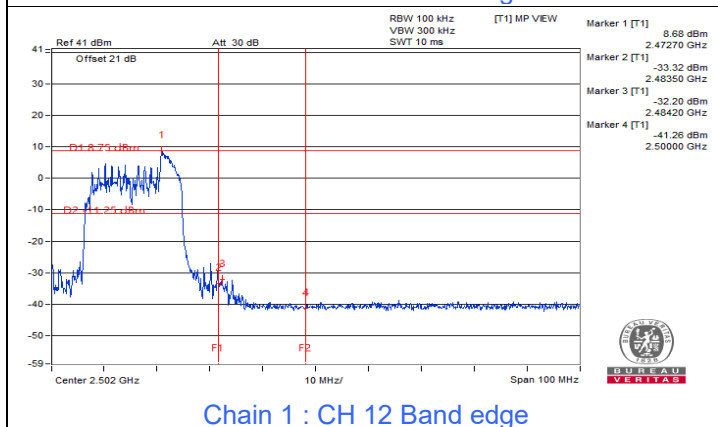
Chain 1 : CH 2 Band edge



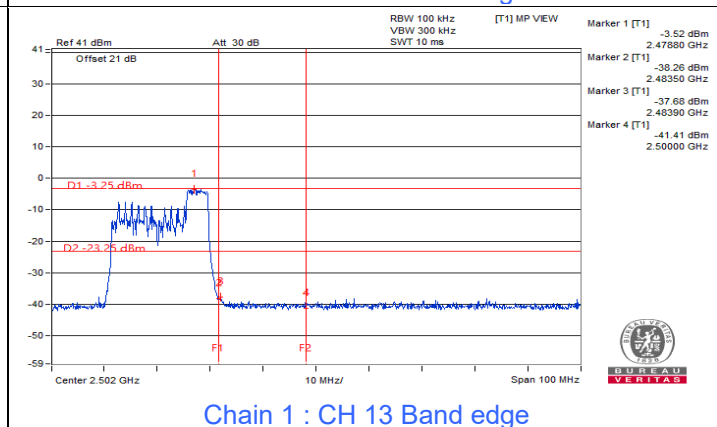
Chain 1 : CH 10 Band edge



Chain 1 : CH 11 Band edge



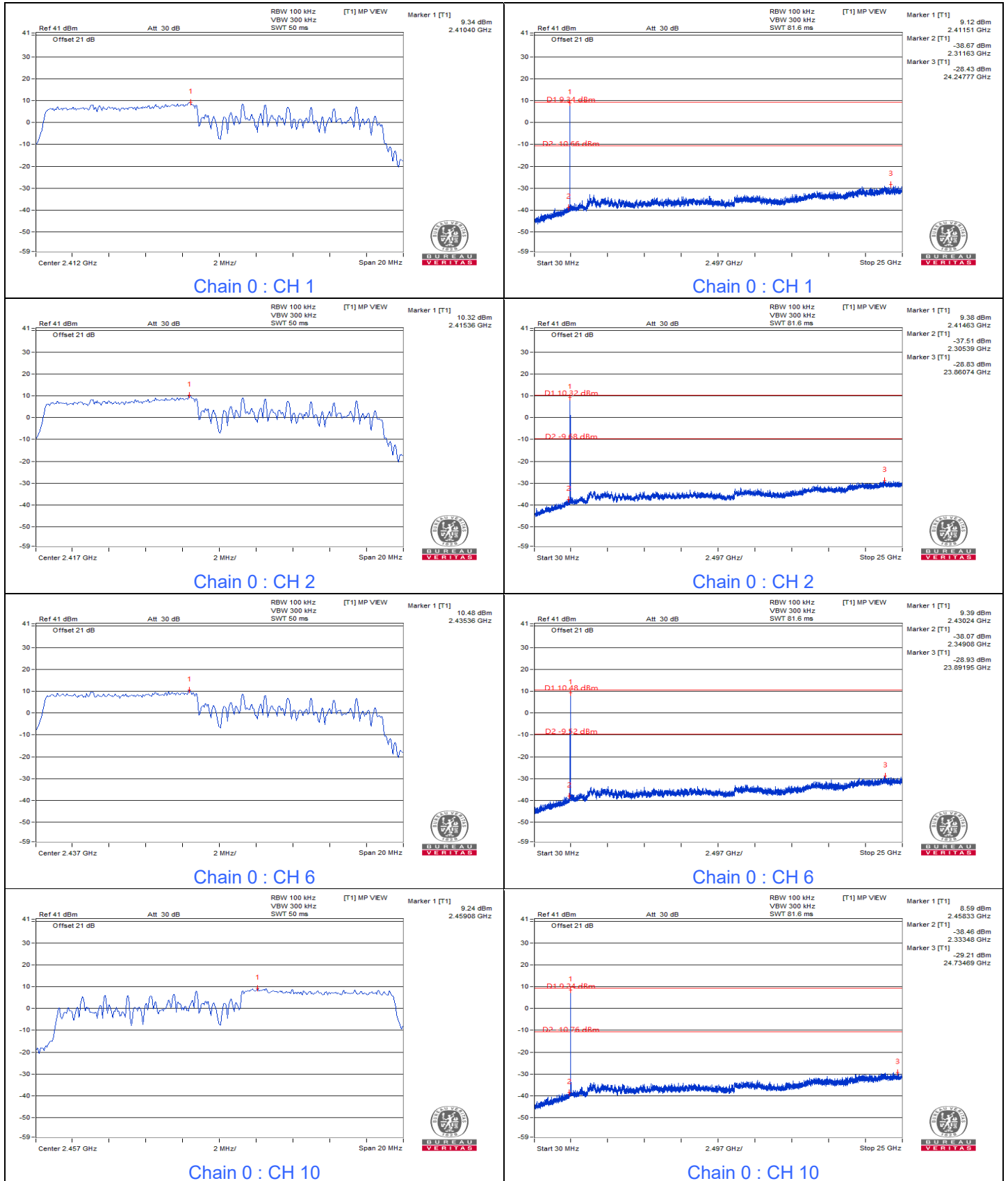
Chain 1 : CH 12 Band edge

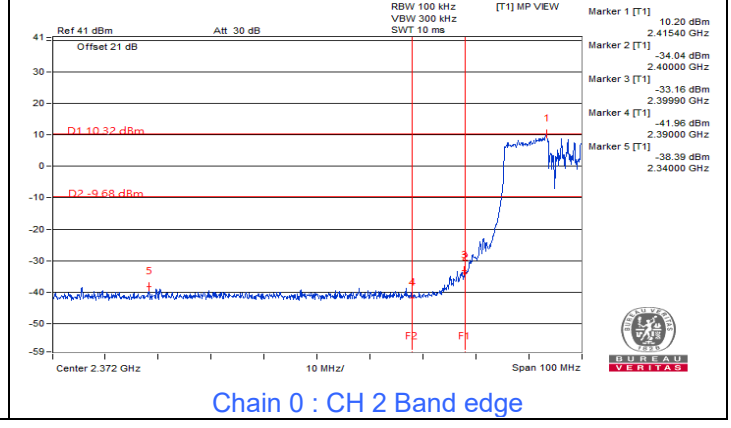
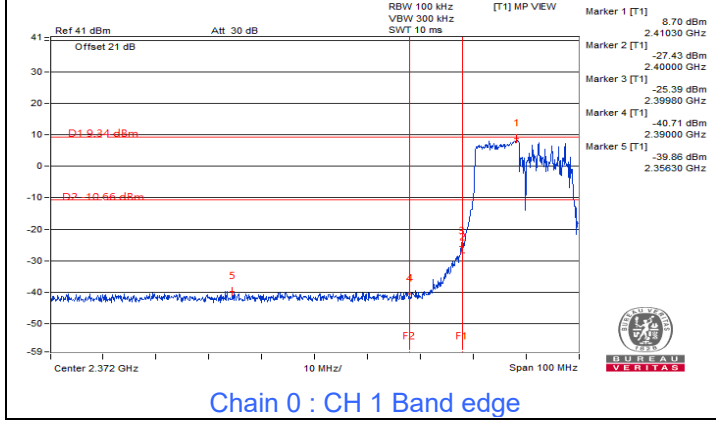
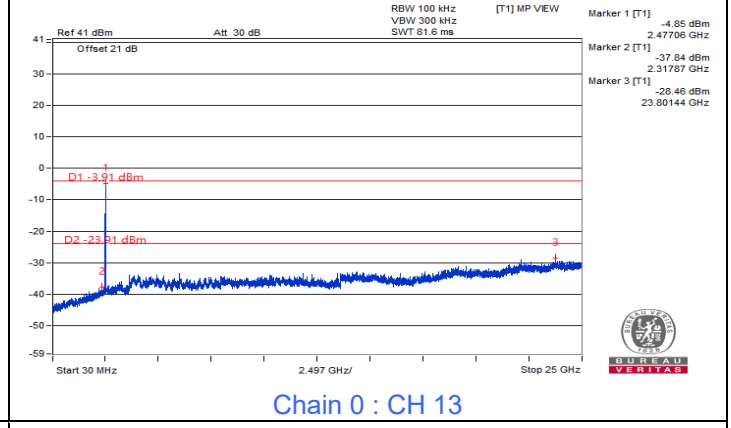
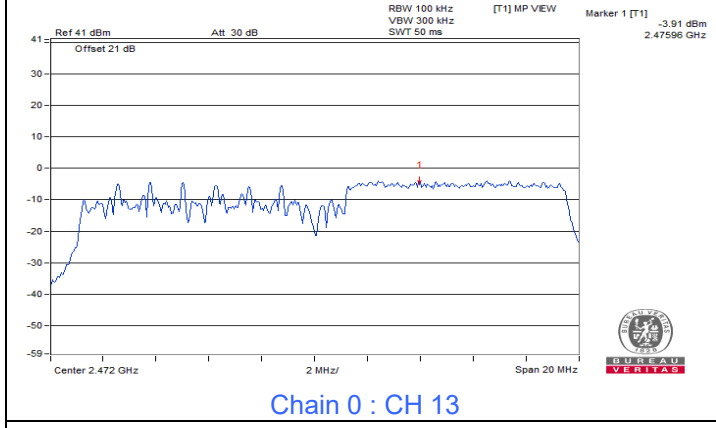
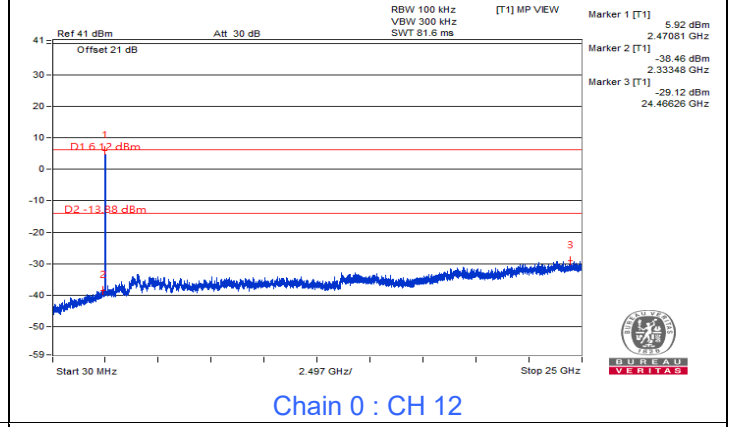
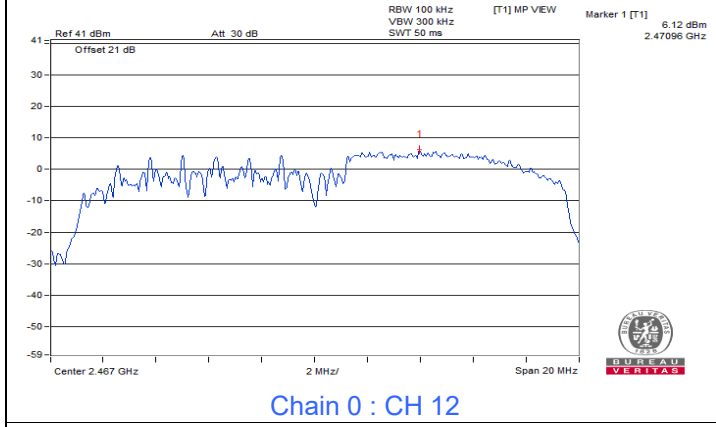
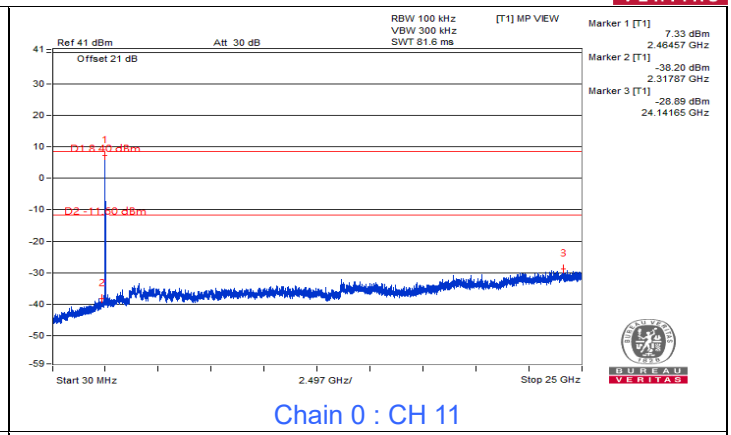
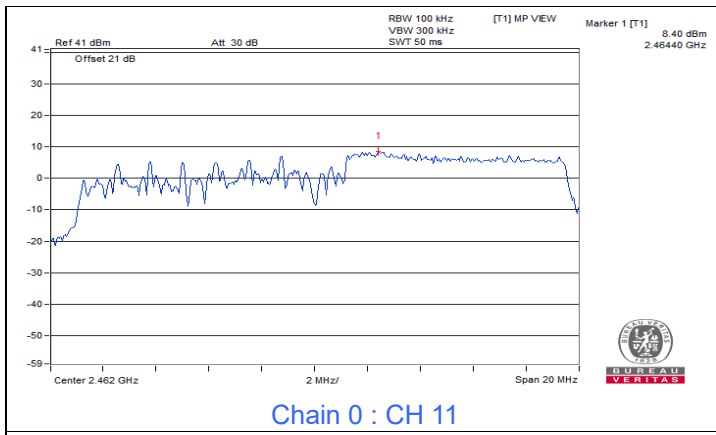


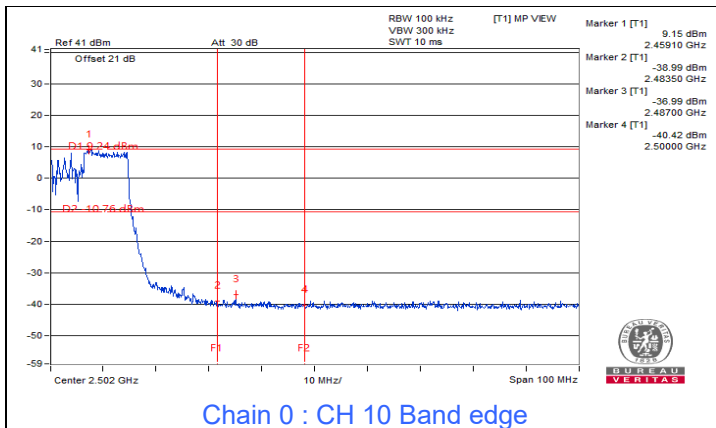
Chain 1 : CH 13 Band edge



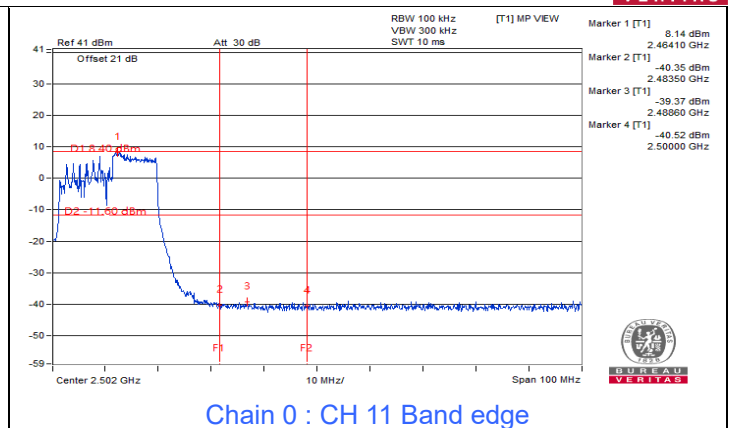
802.11be (EHT20) 106-tone RU



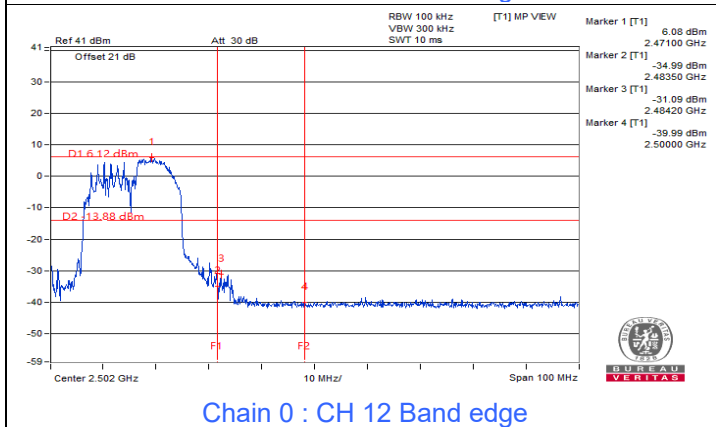




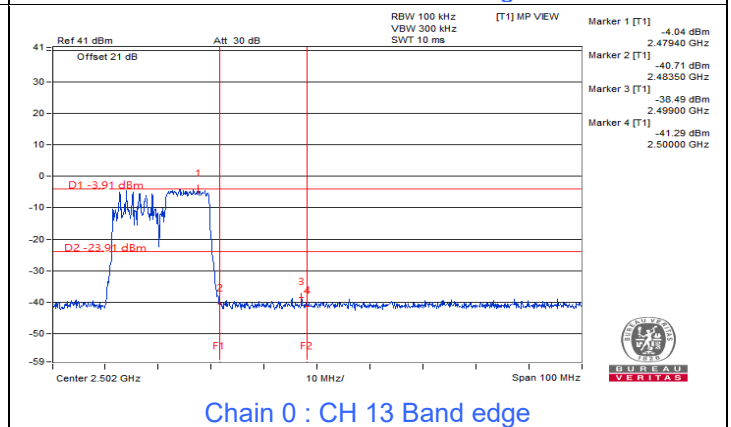
Chain 0 : CH 10 Band edge



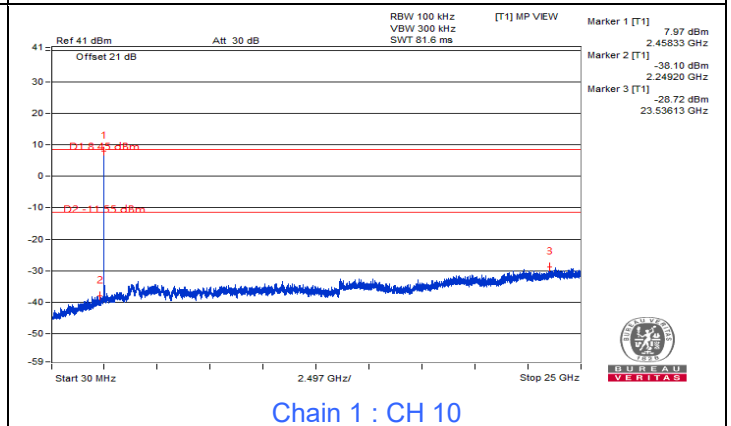
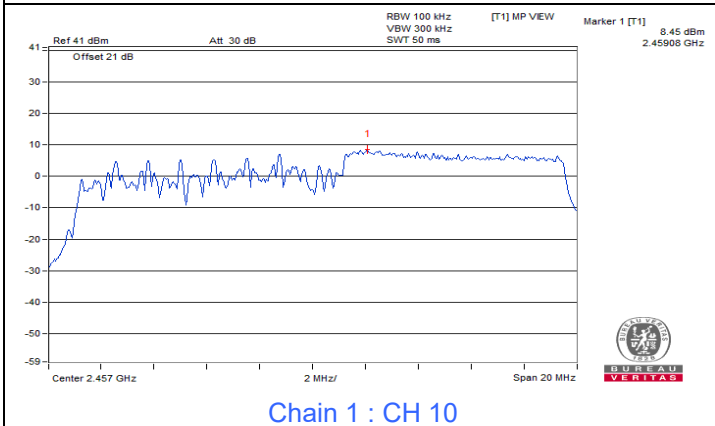
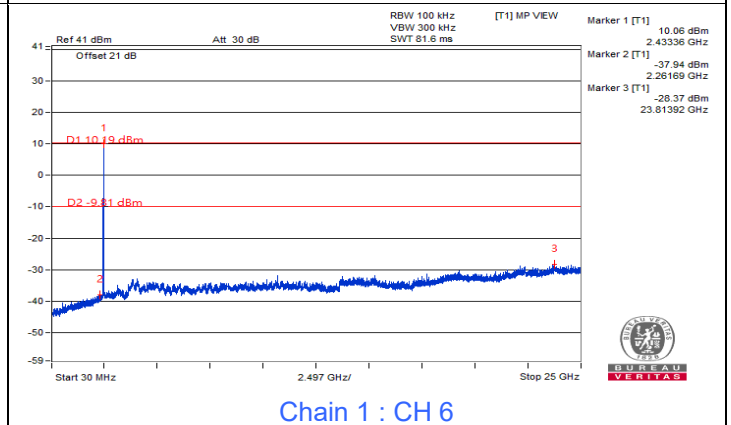
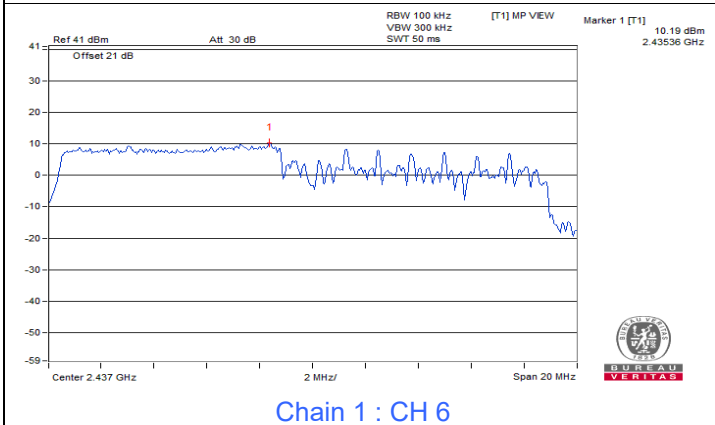
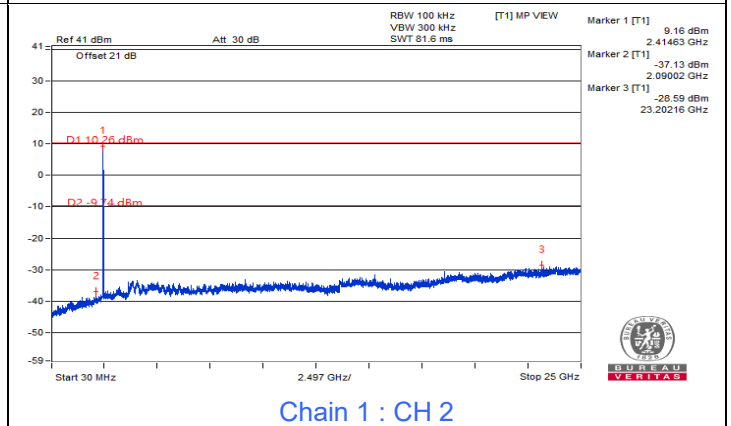
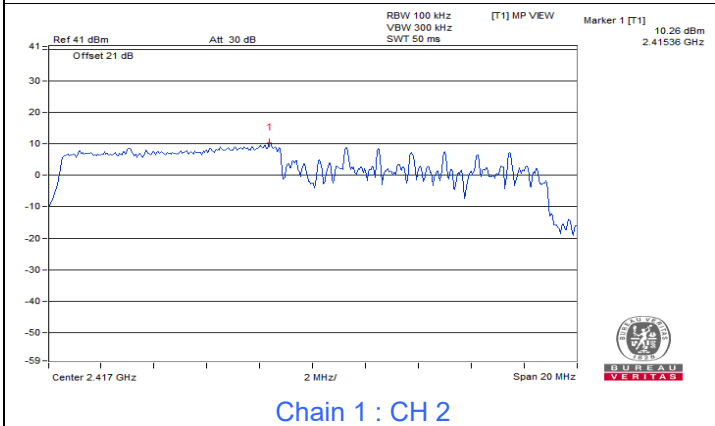
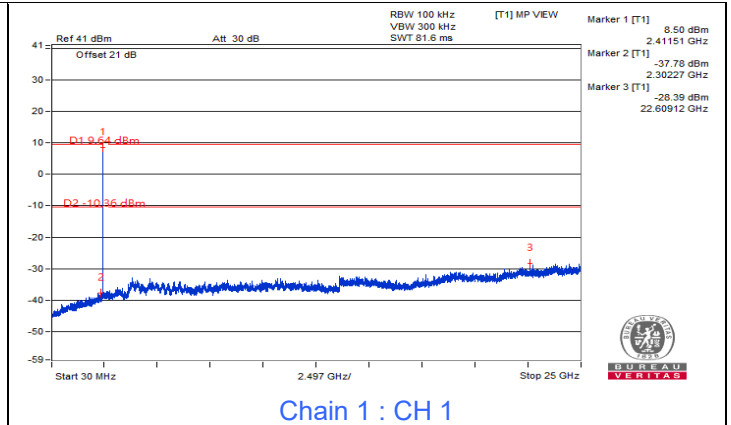
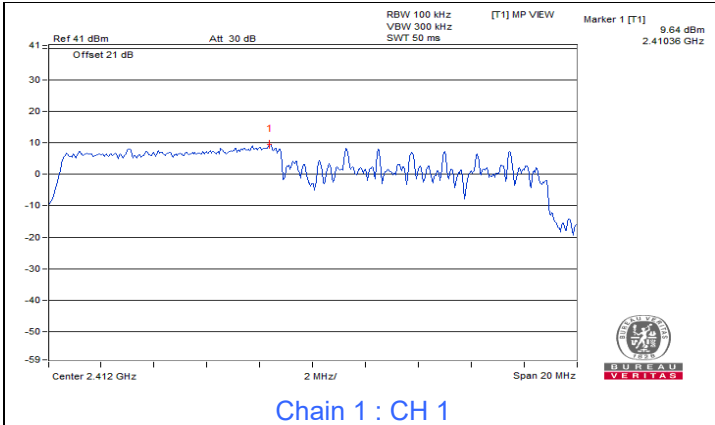
Chain 0 : CH 11 Band edge

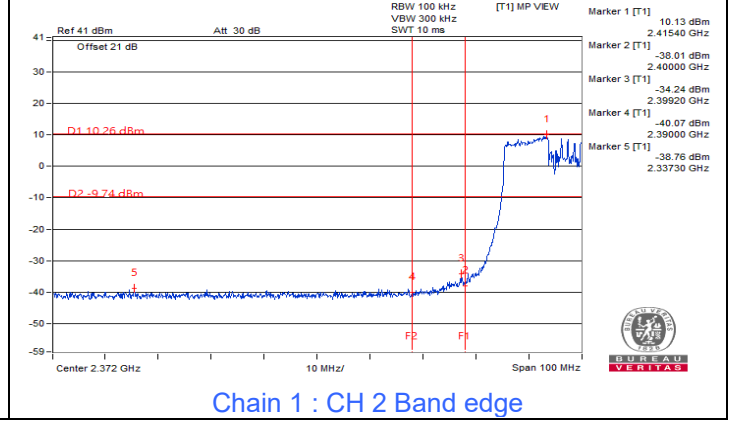
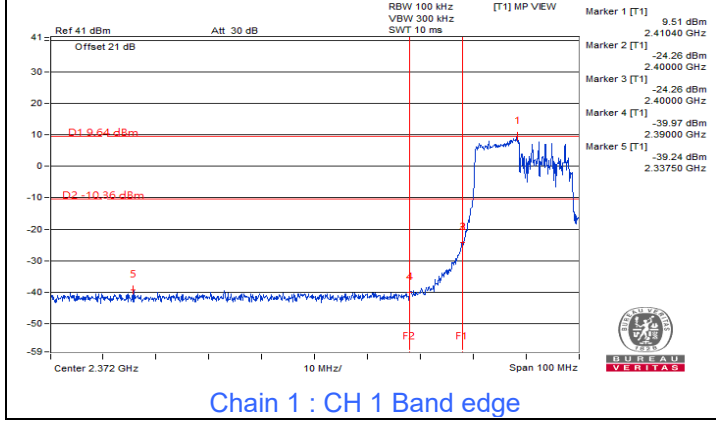
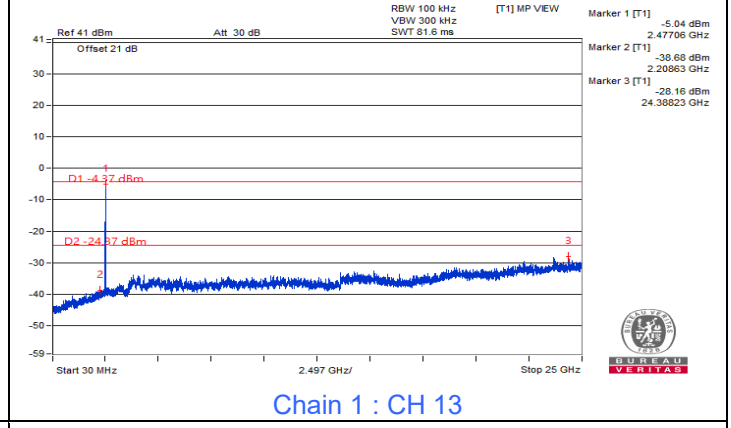
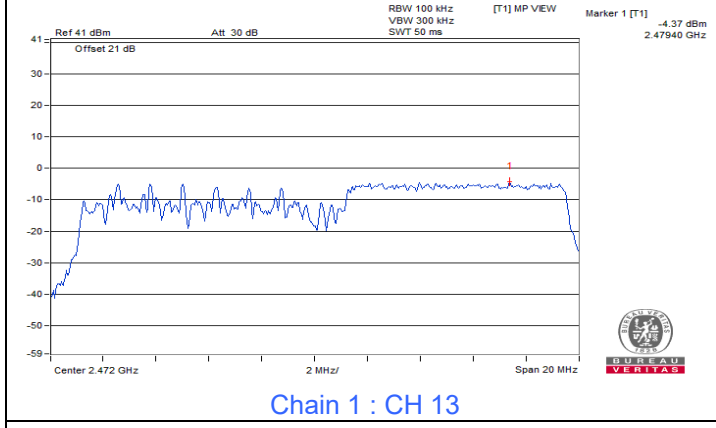
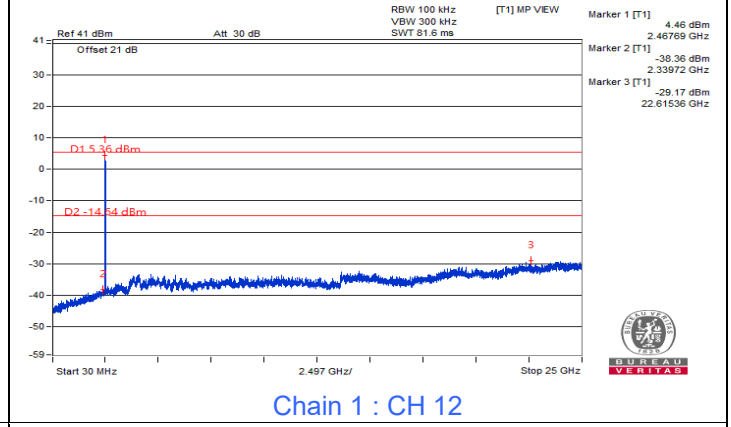
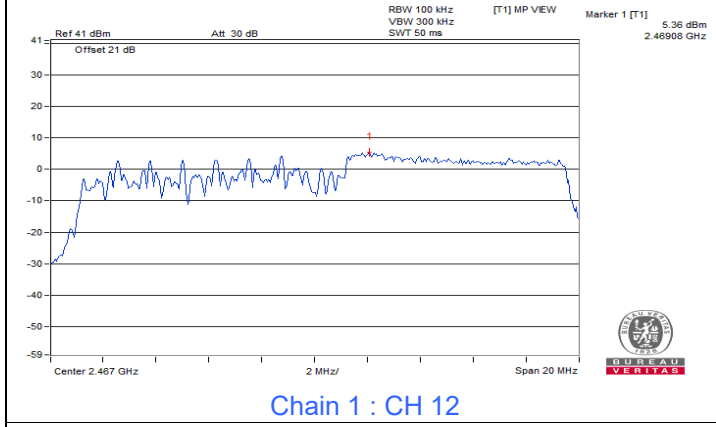
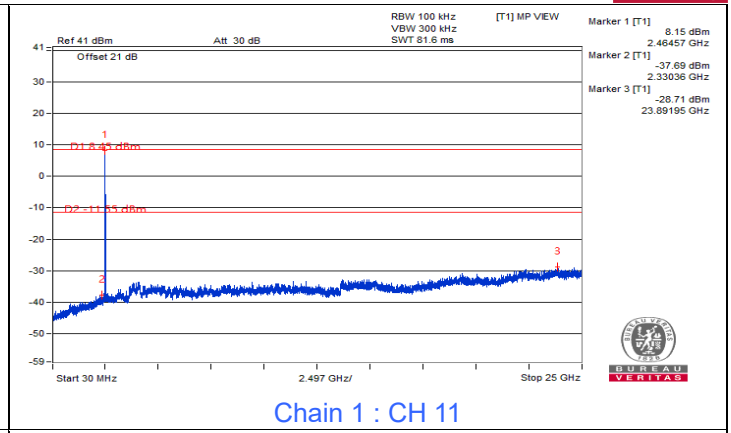
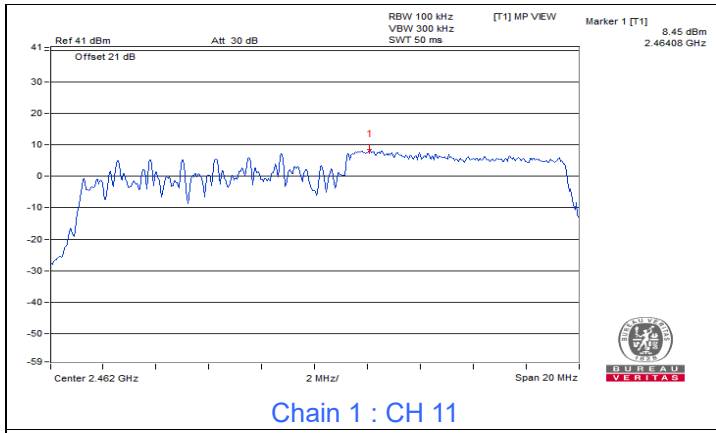


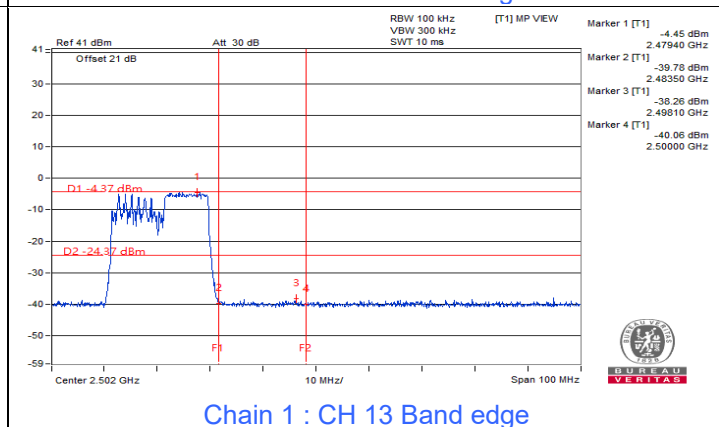
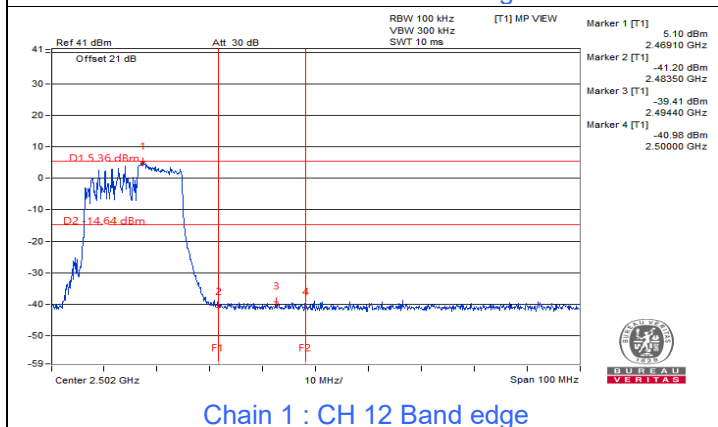
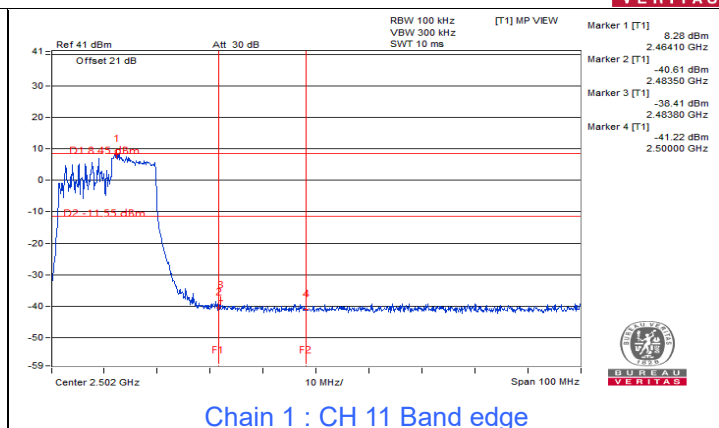
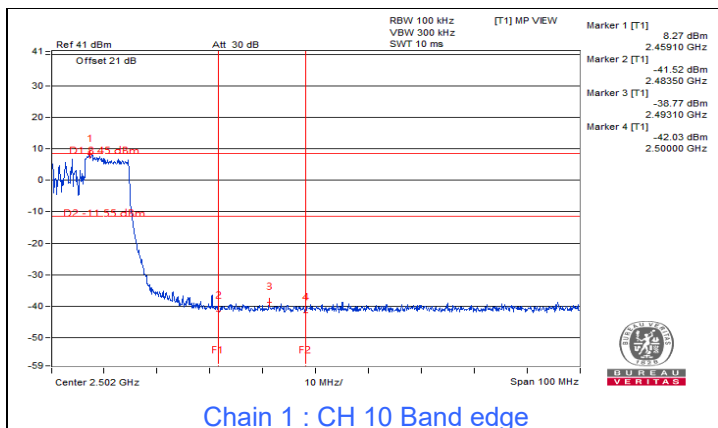
Chain 0 : CH 12 Band edge



Chain 0 : CH 13 Band edge







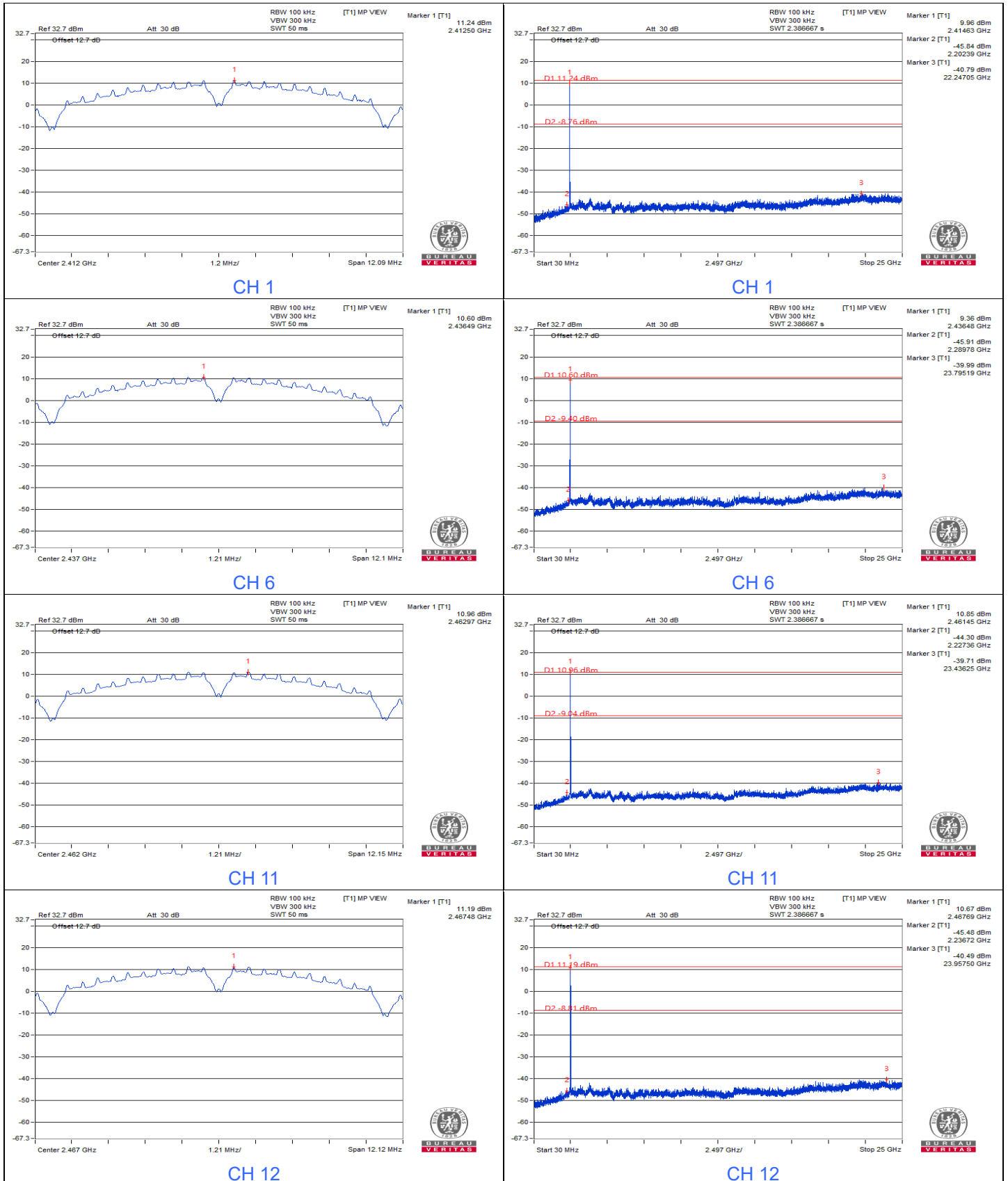


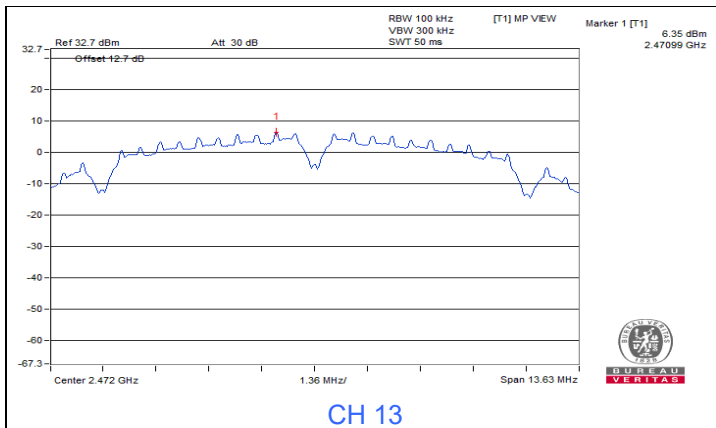
BUREAU VERITAS

1TX Mode

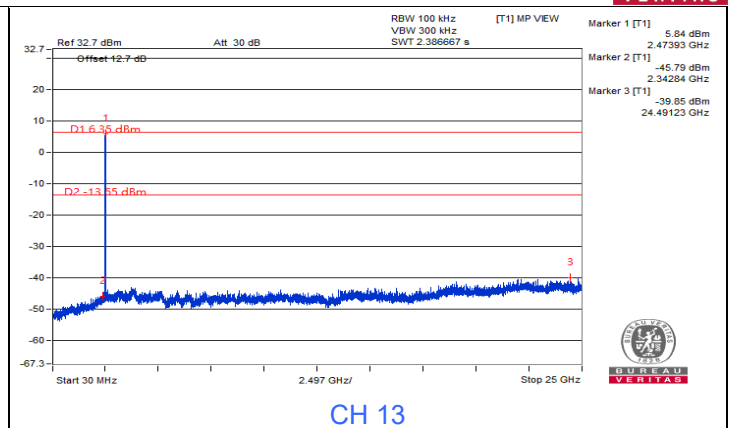
Input Power:	3.3 Vdc	Environmental Conditions:	25°C, 62% RH	Tested By:	Eric Peng
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802.11b

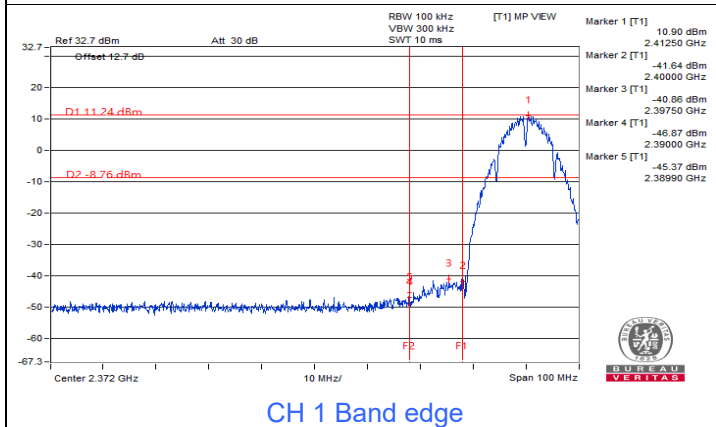




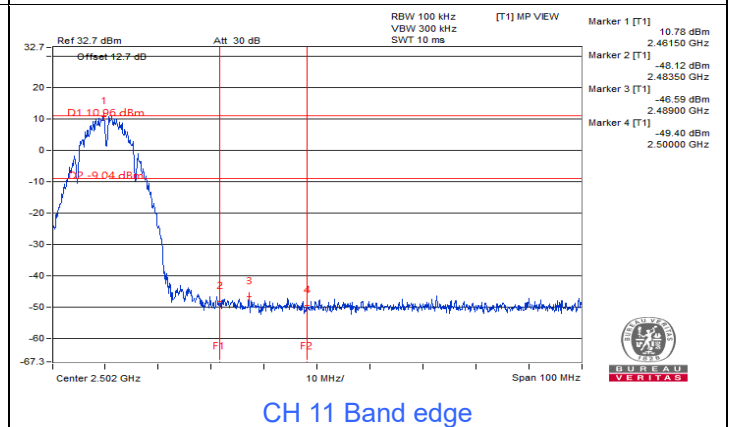
CH 13



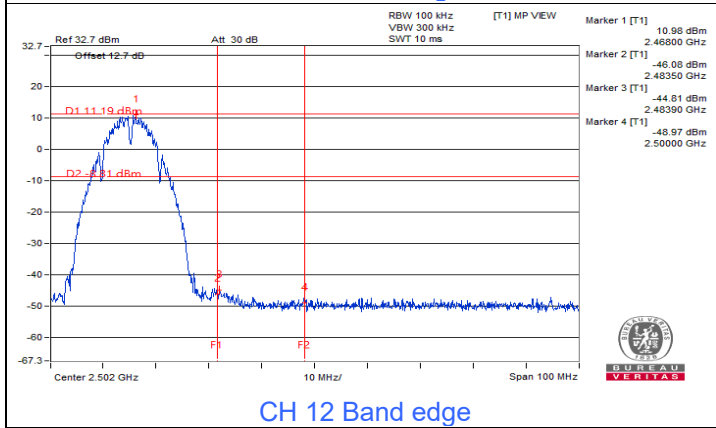
CH 13



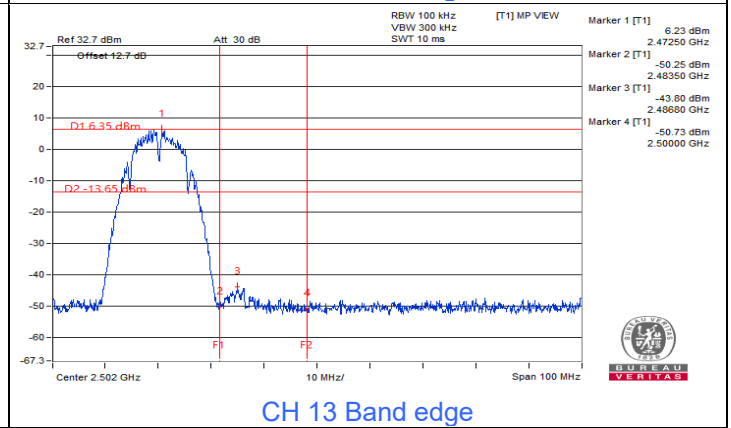
CH 1 Band edge



CH 11 Band edge



CH 12 Band edge

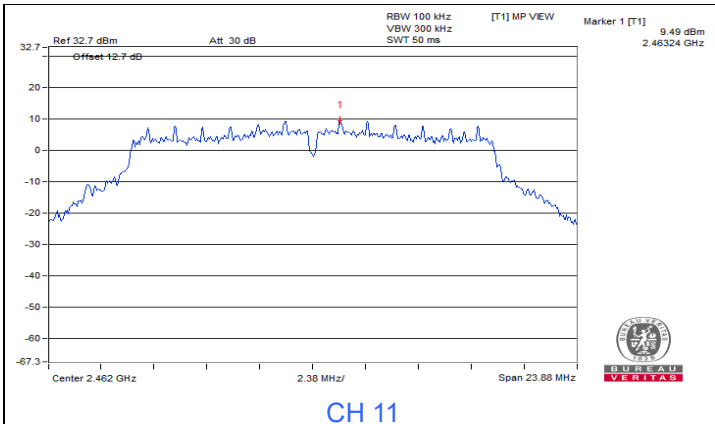


CH 13 Band edge

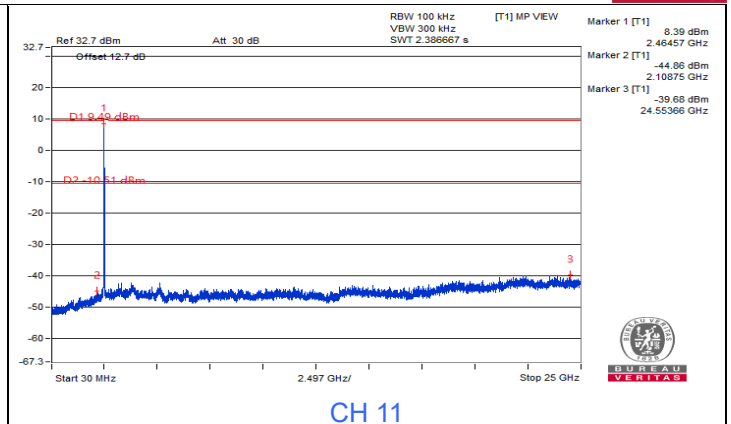


802.11g

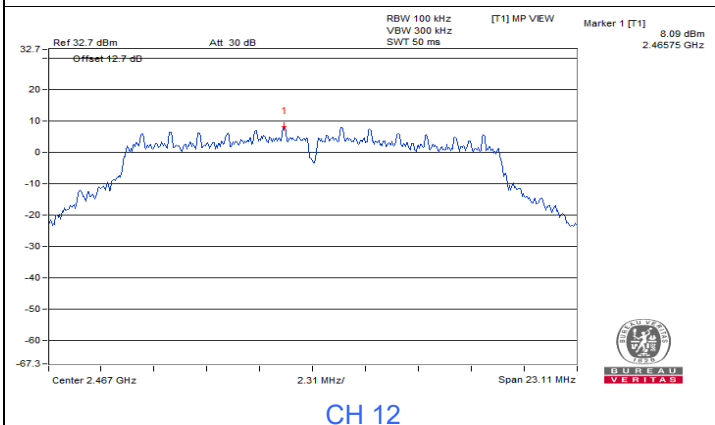




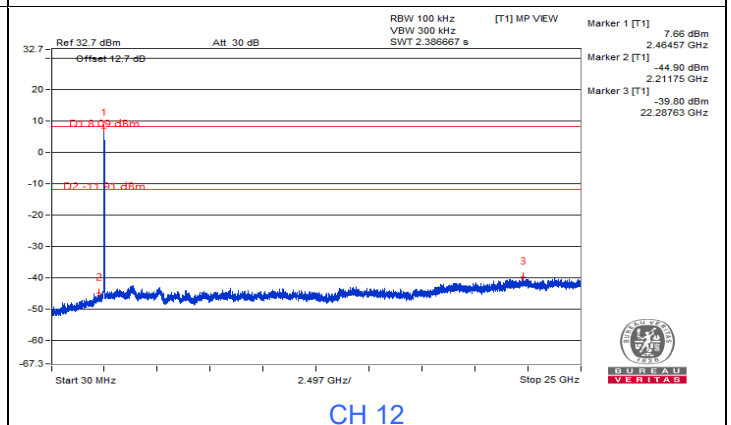
CH 11



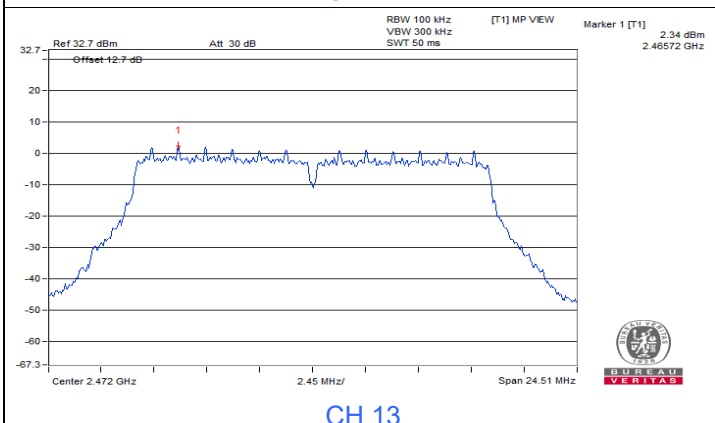
CH 11



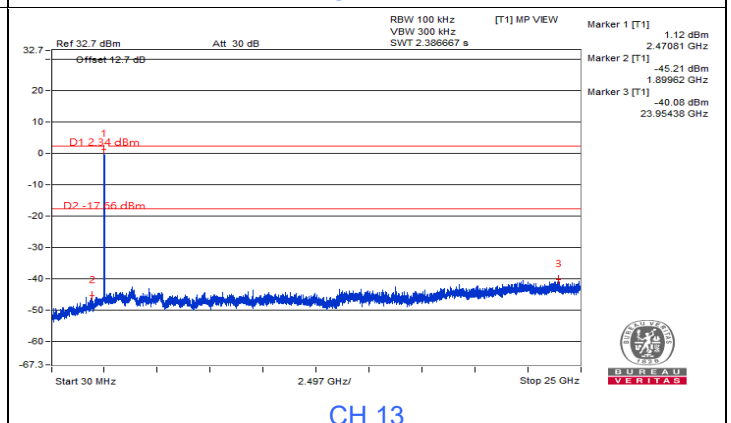
CH 12



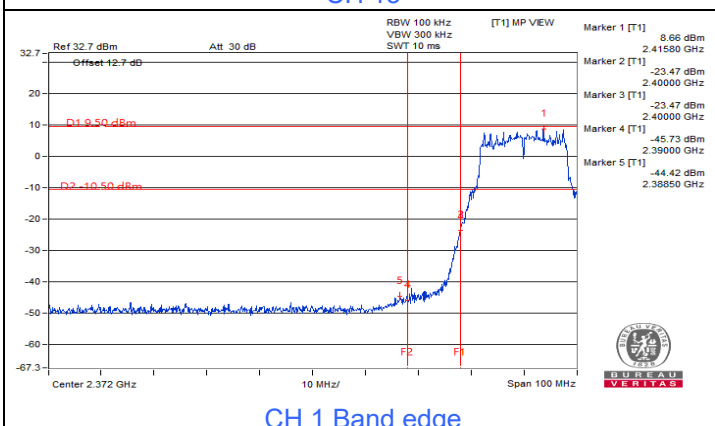
CH 12



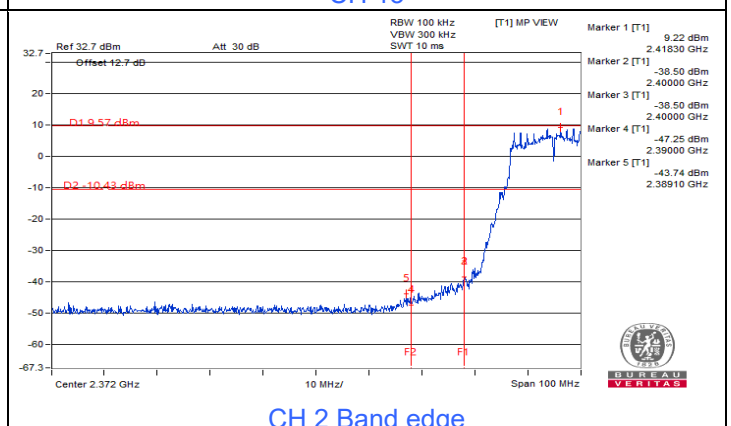
CH 13



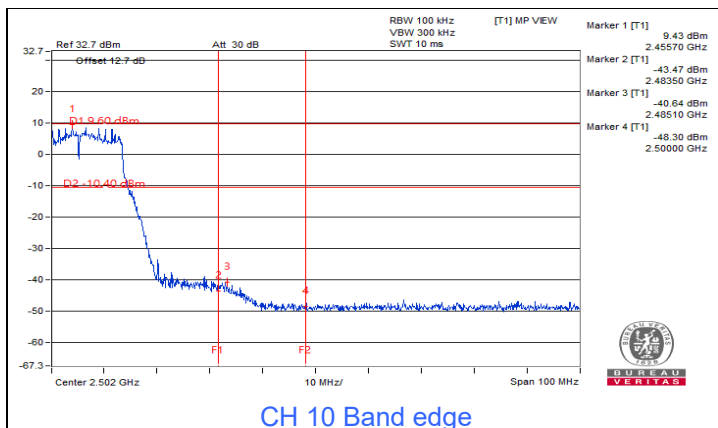
CH 13



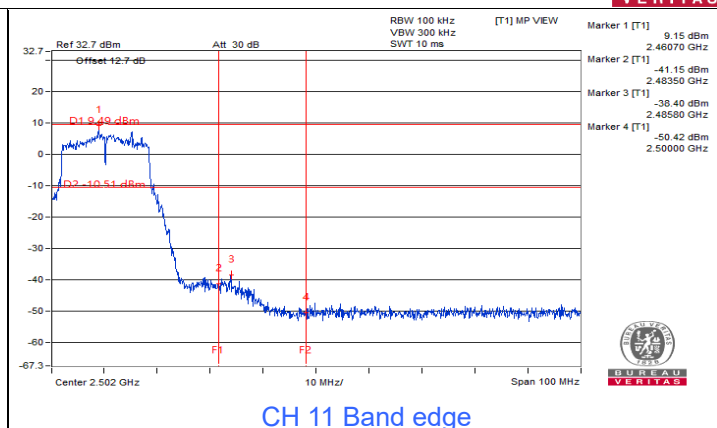
CH 1 Band edge



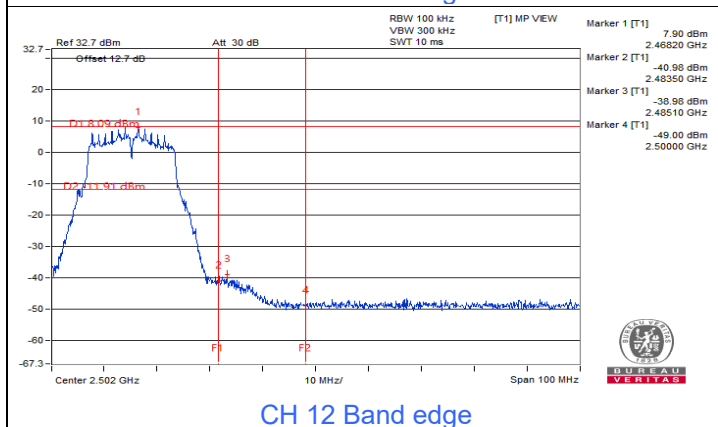
CH 2 Band edge



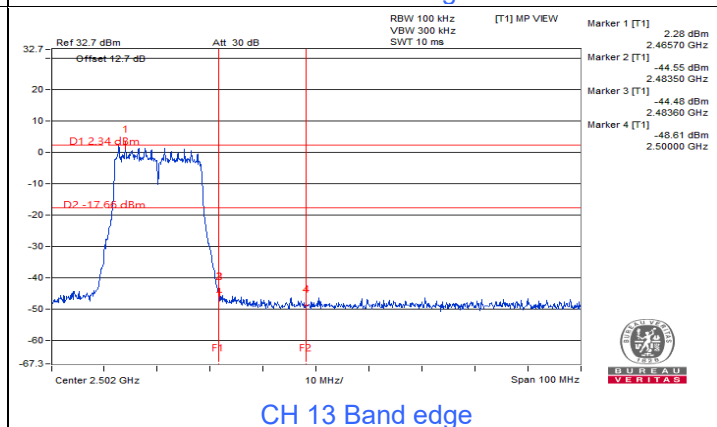
CH 10 Band edge



CH 11 Band edge



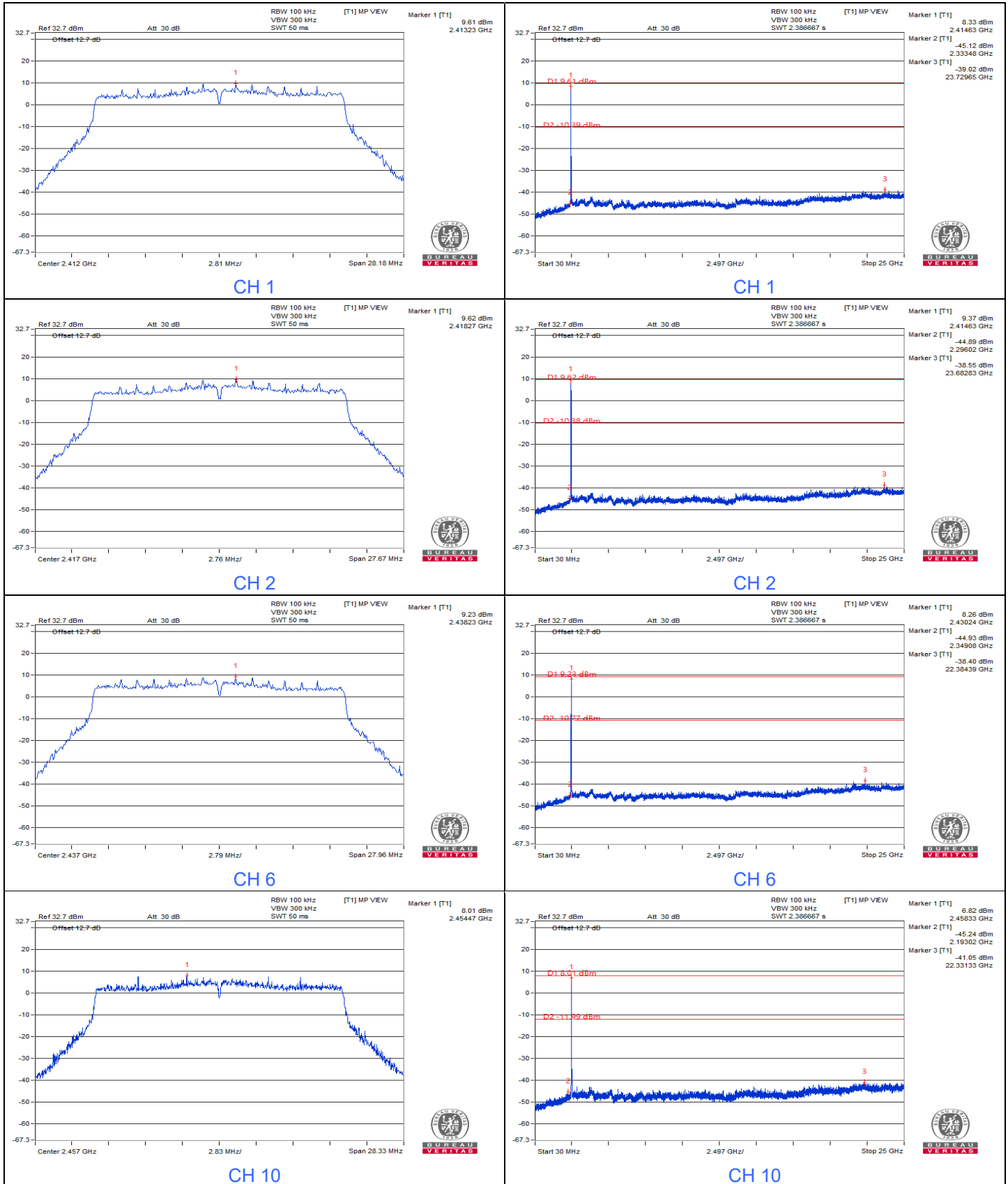
CH 12 Band edge

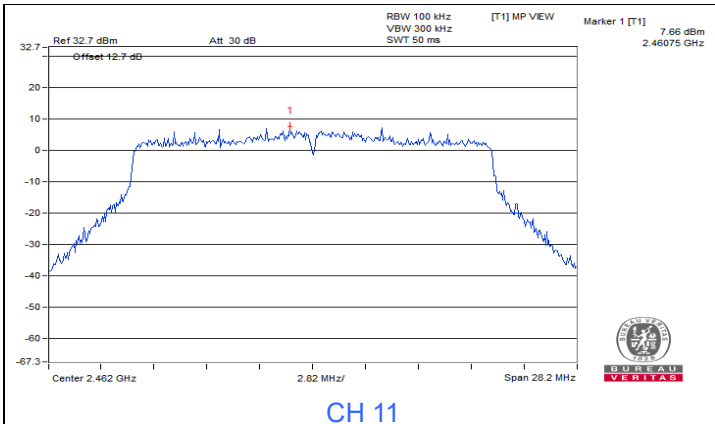


CH 13 Band edge

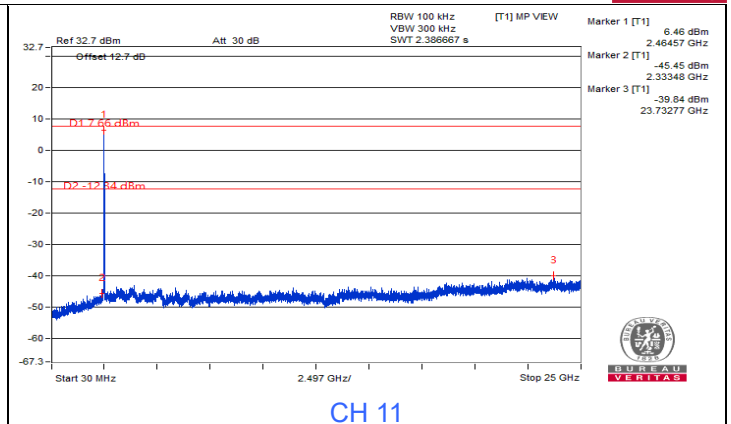


802.11be (EHT20)

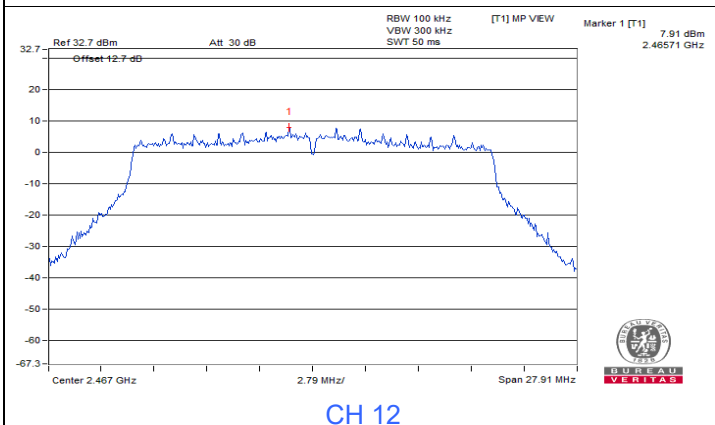




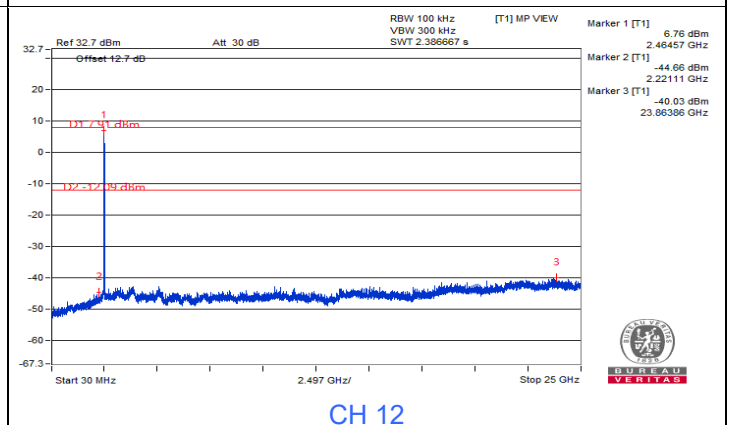
CH 11



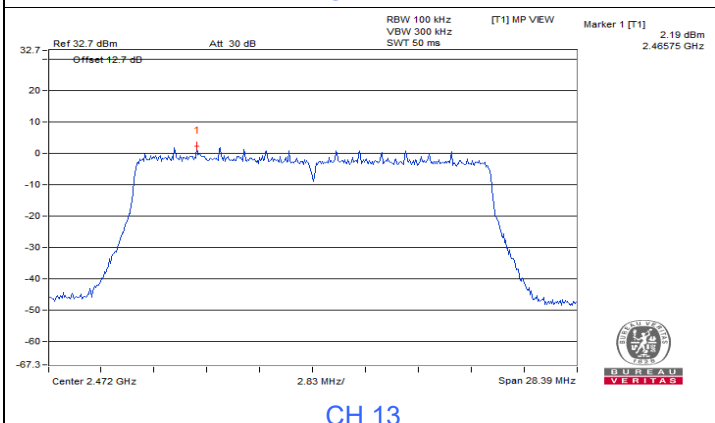
CH 11



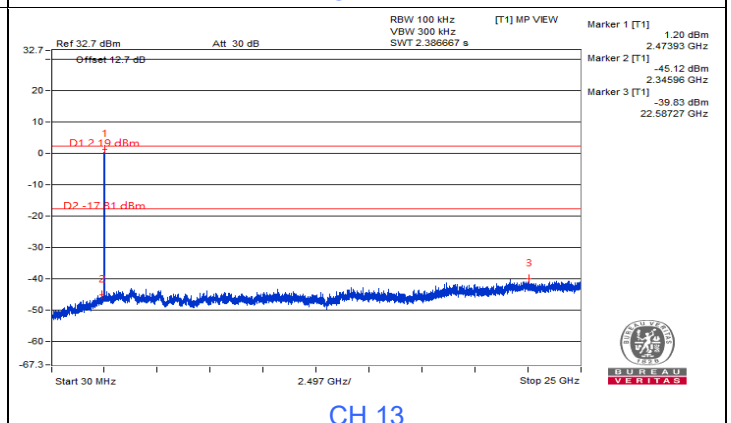
CH 12



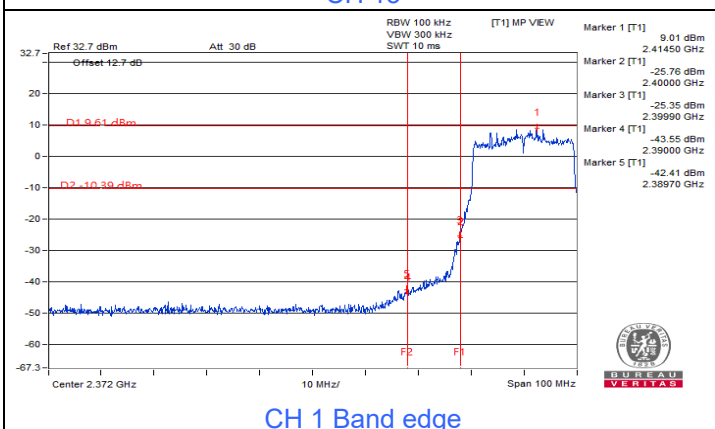
CH 12



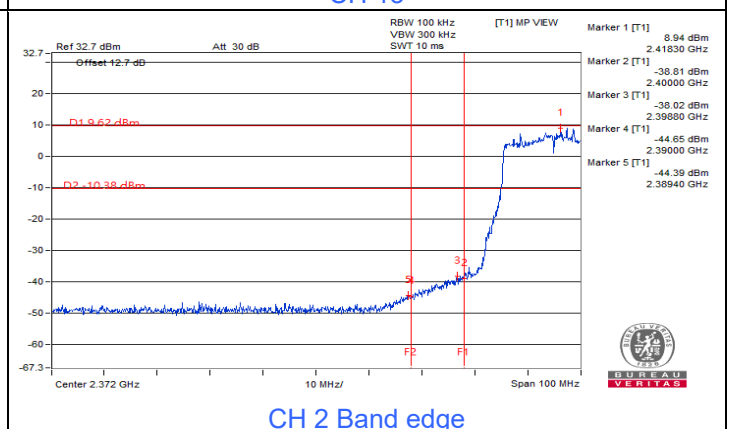
CH 13



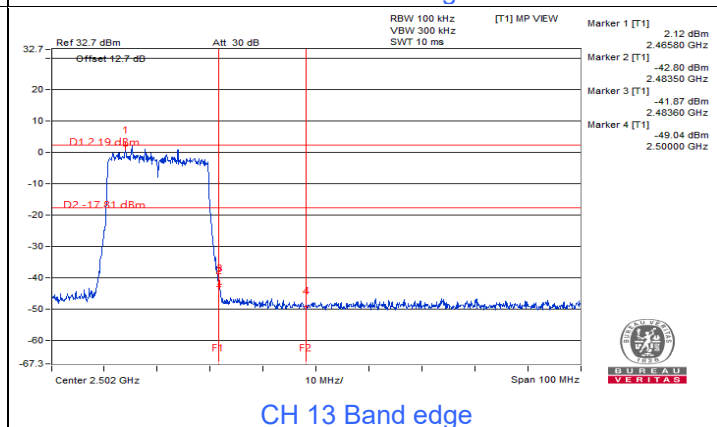
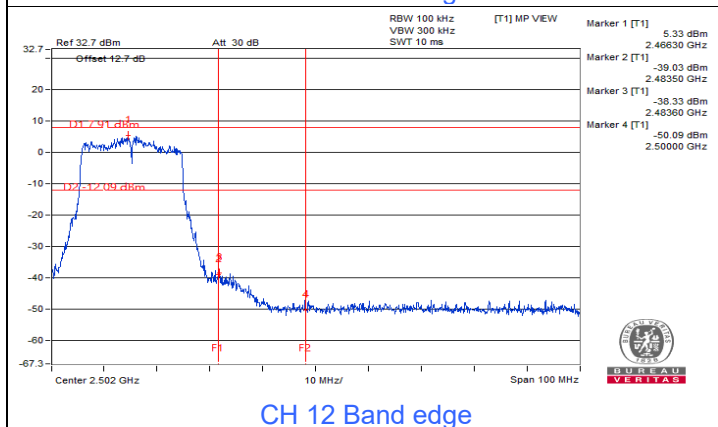
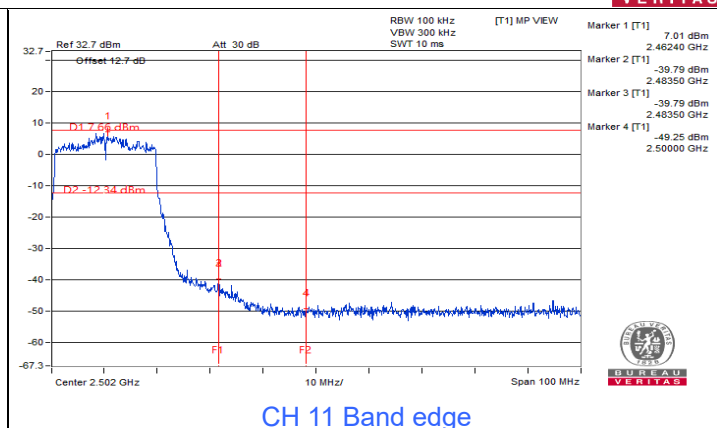
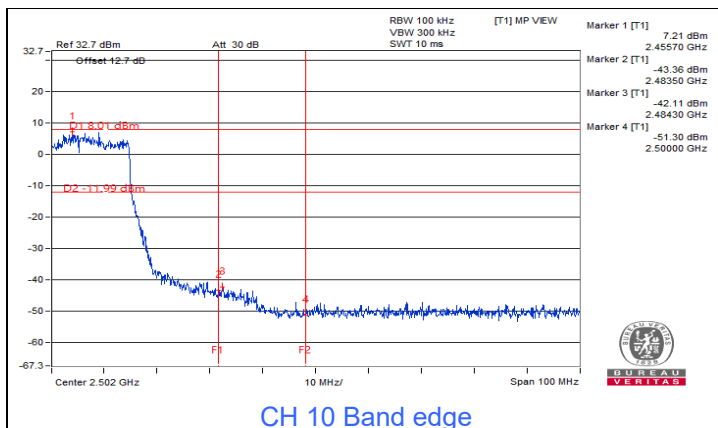
CH 13



CH 1 Band edge

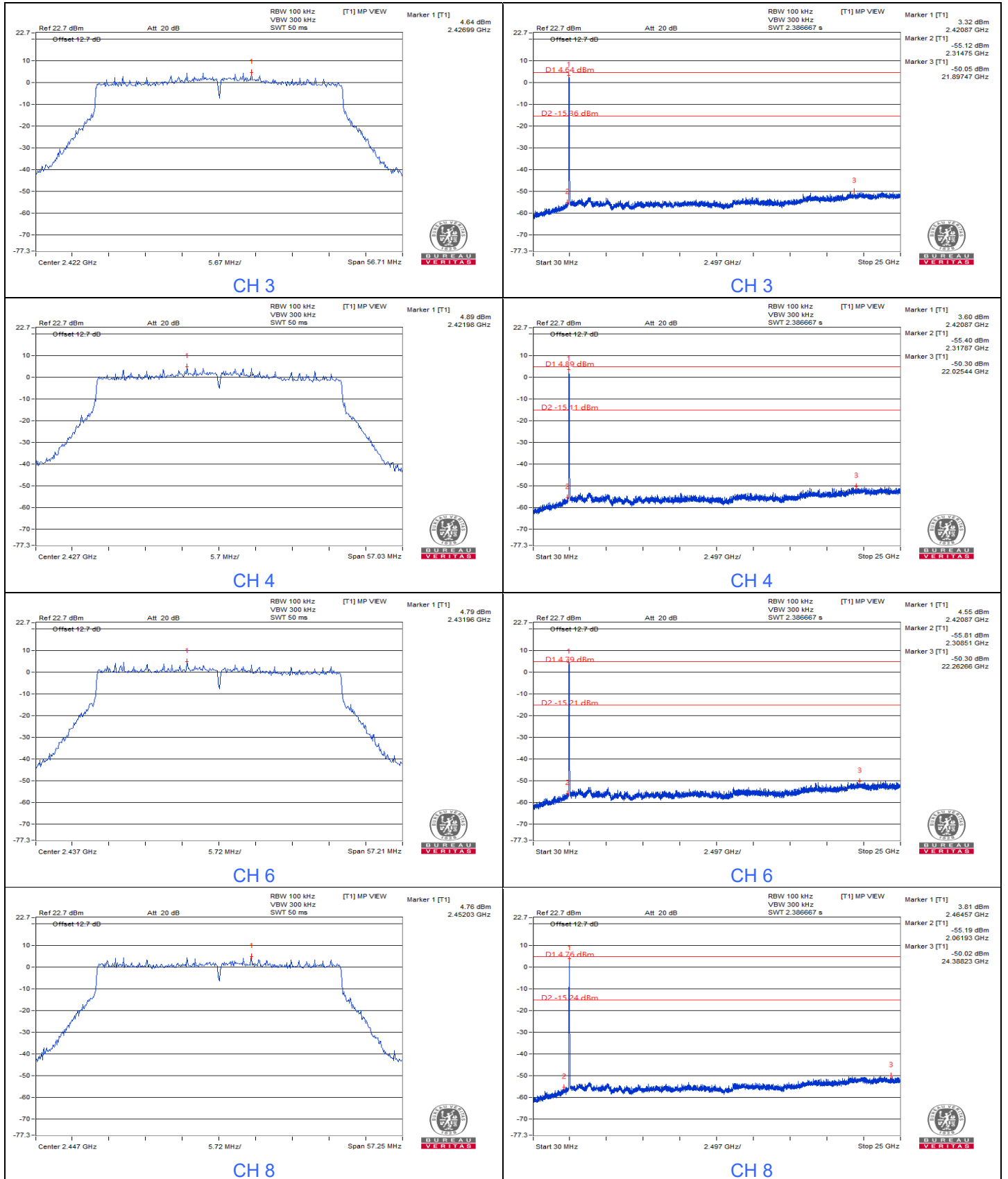


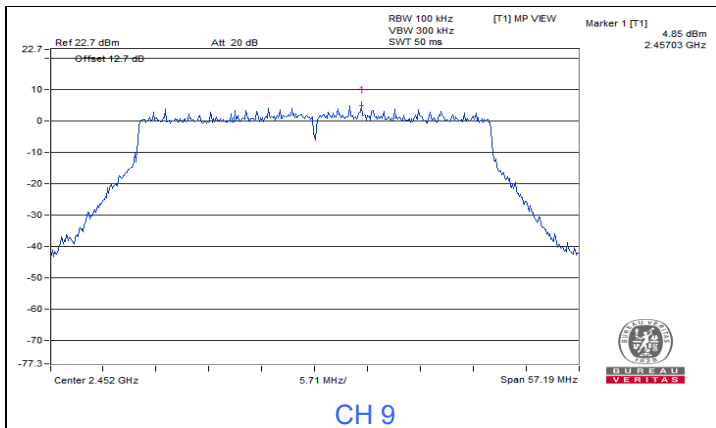
CH 2 Band edge



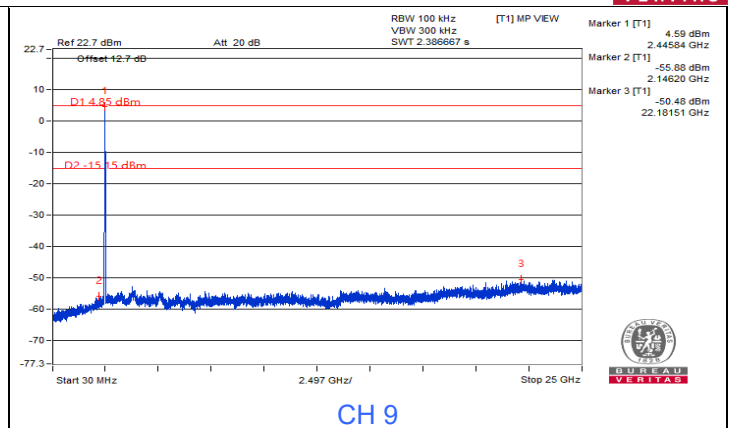


802.11be (EHT40)

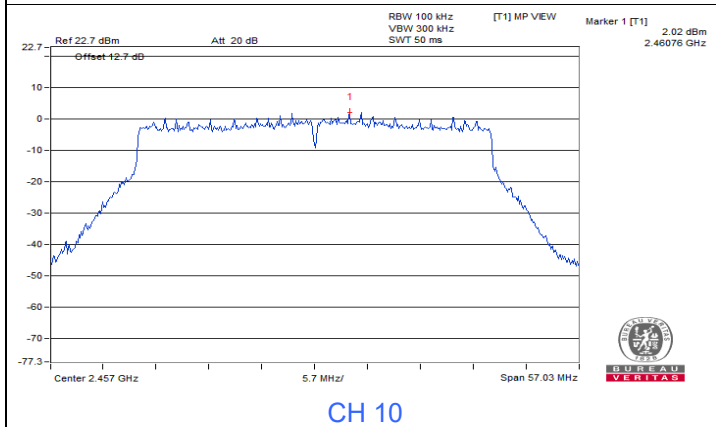




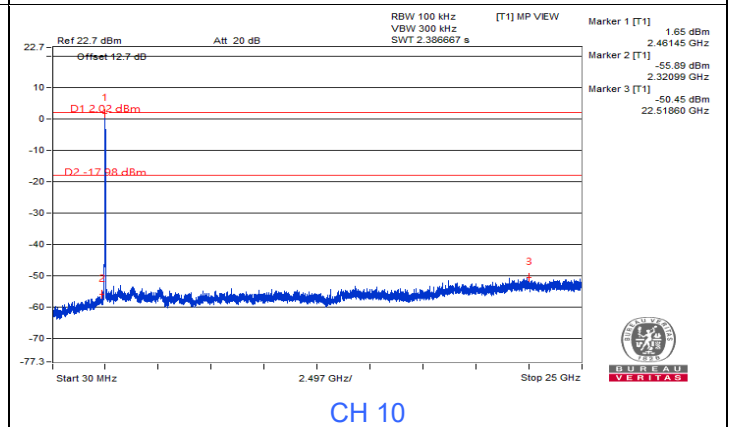
CH 9



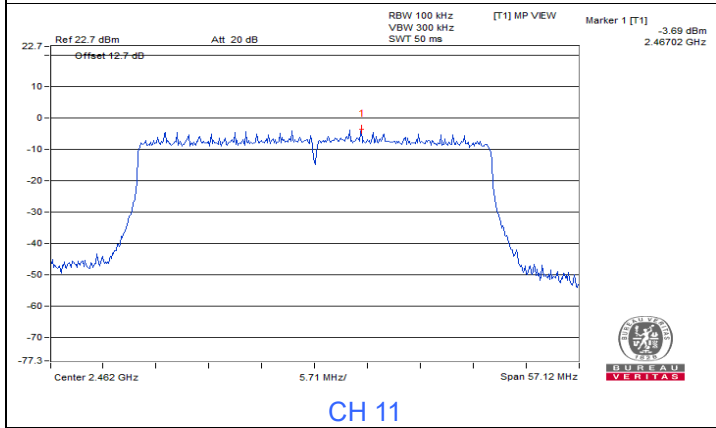
CH 9



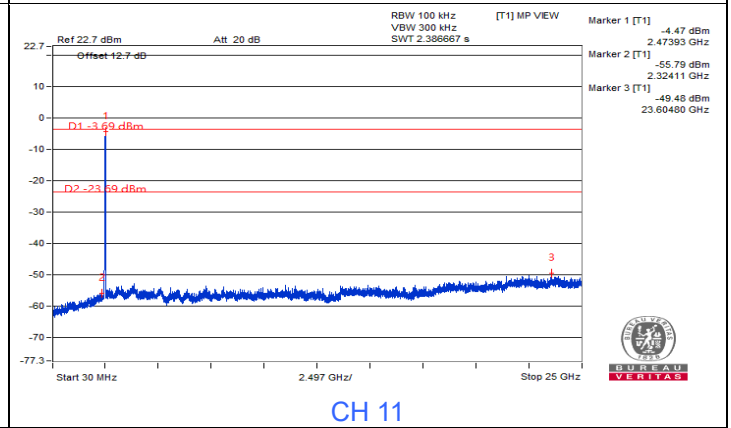
CH 10



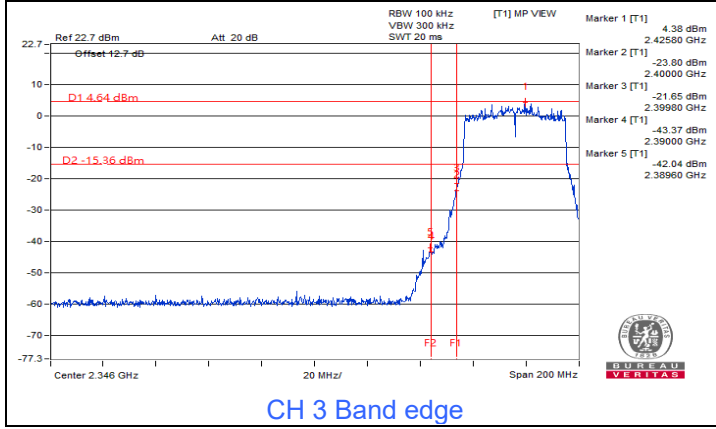
CH 10



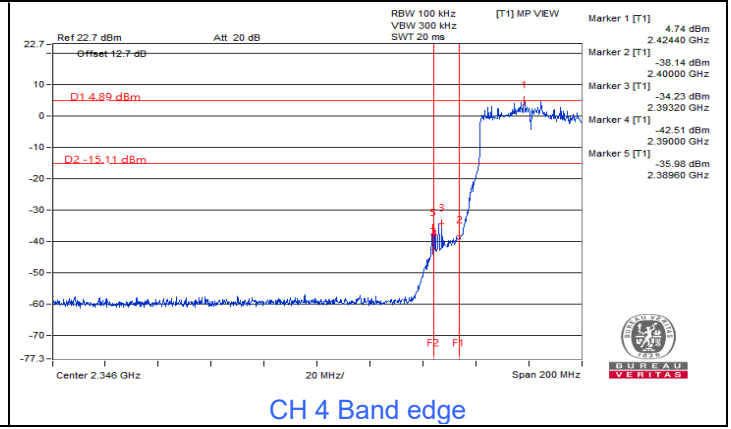
CH 11



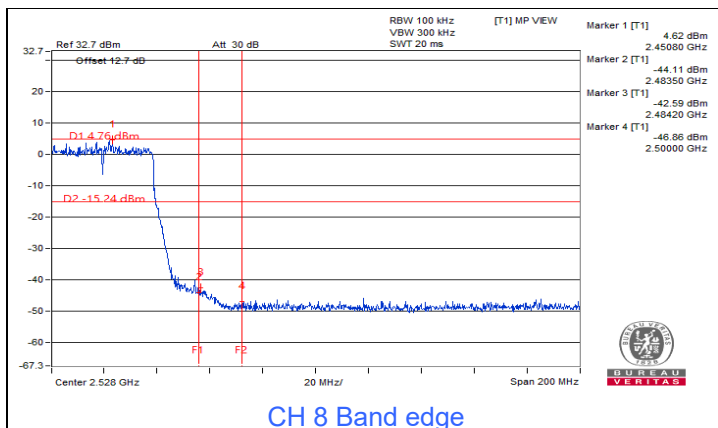
CH 11



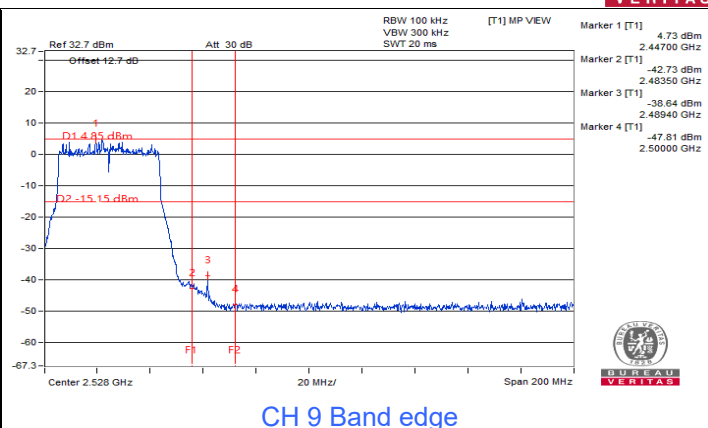
CH 3 Band edge



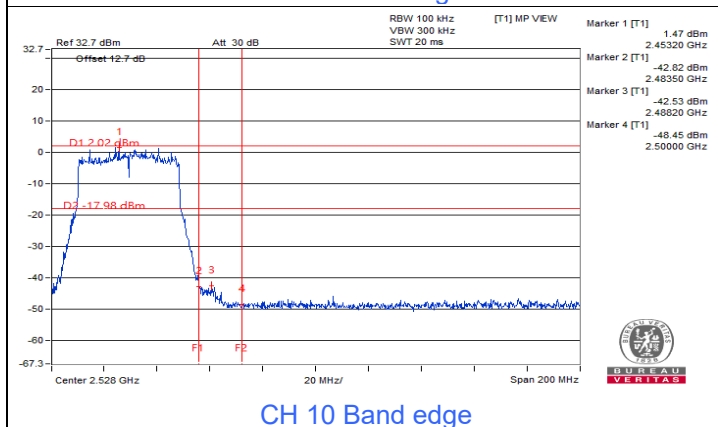
CH 4 Band edge



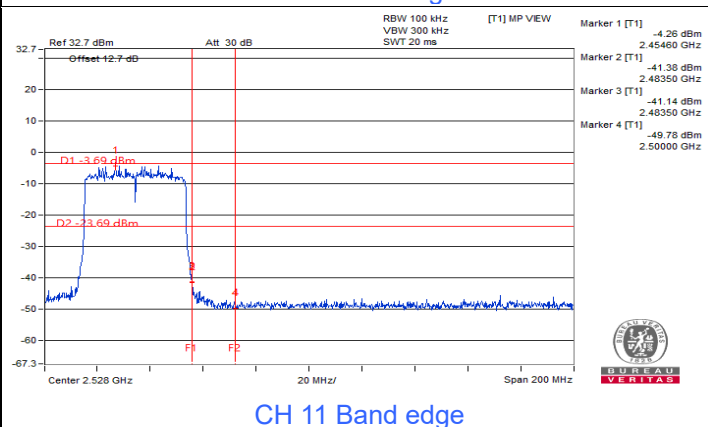
CH 8 Band edge



CH 9 Band edge



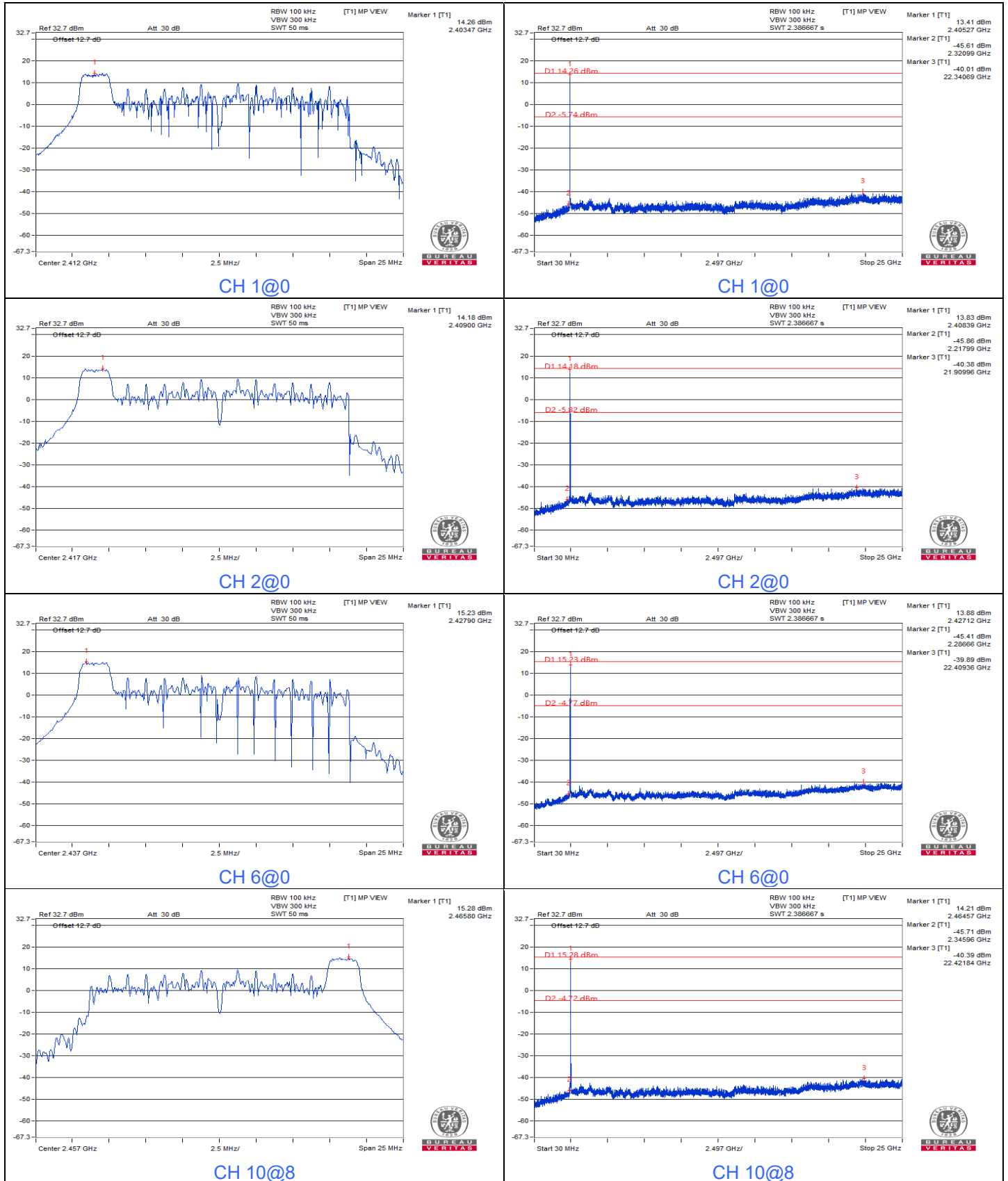
CH 10 Band edge

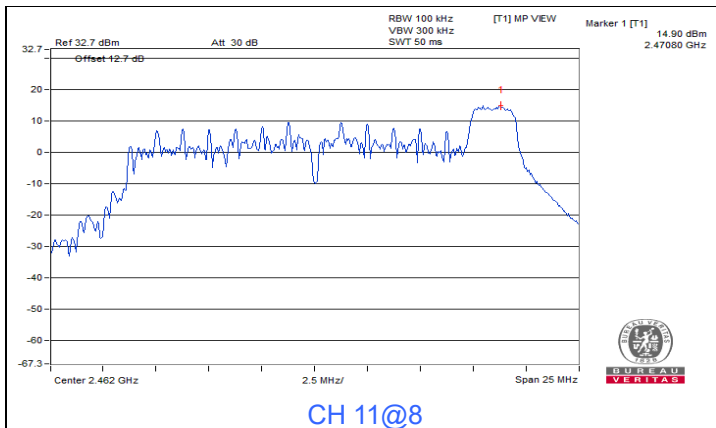


CH 11 Band edge

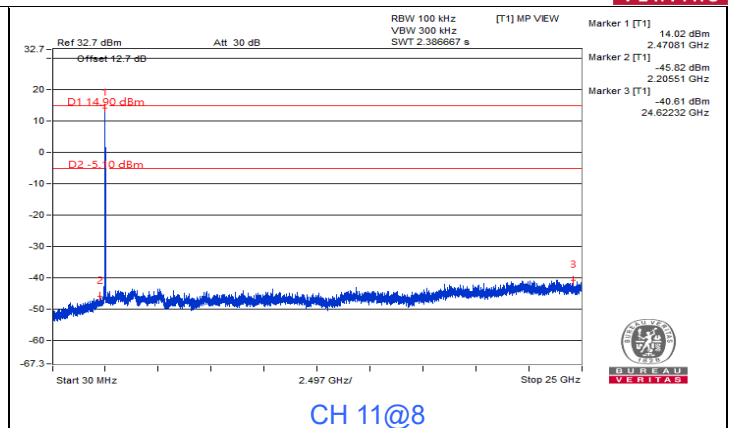


802.11be (EHT20) 26-tone RU

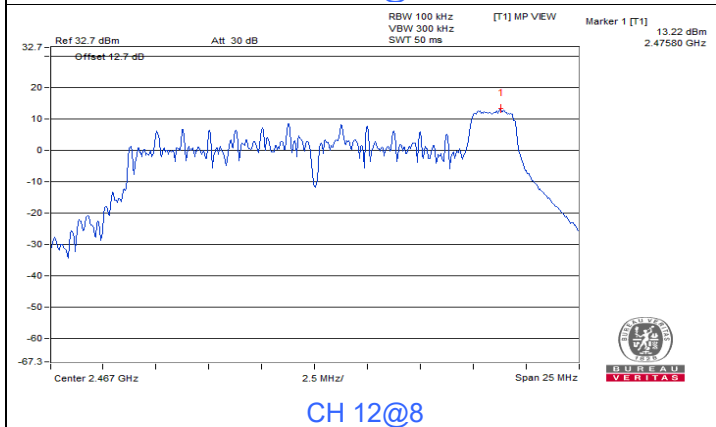




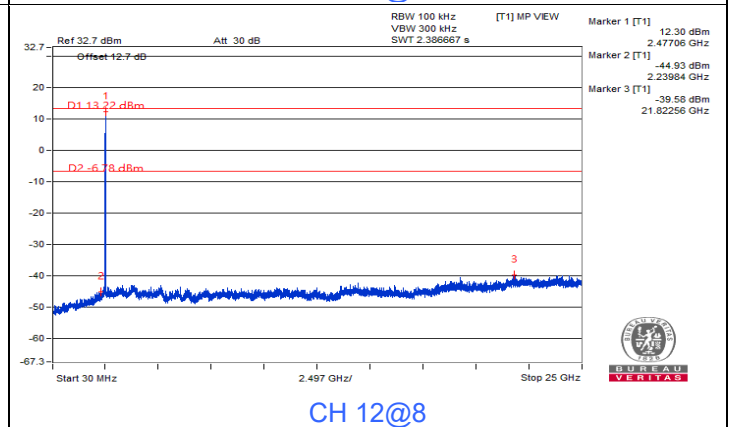
CH 11@8



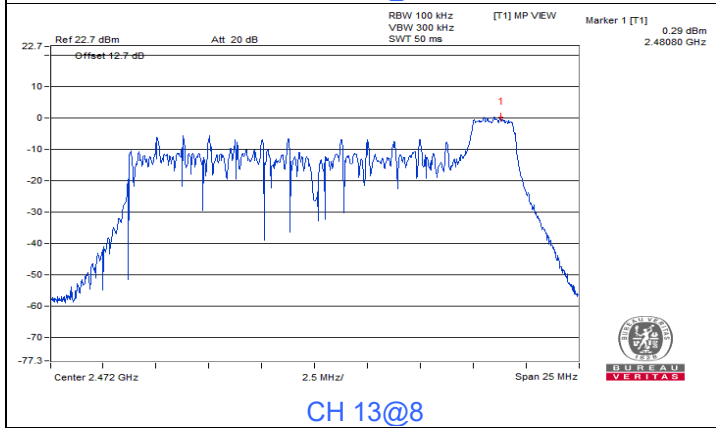
CH 11@8



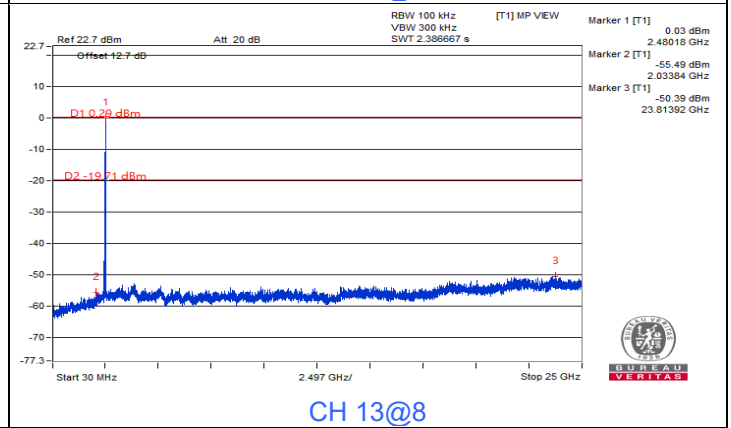
CH 12@8



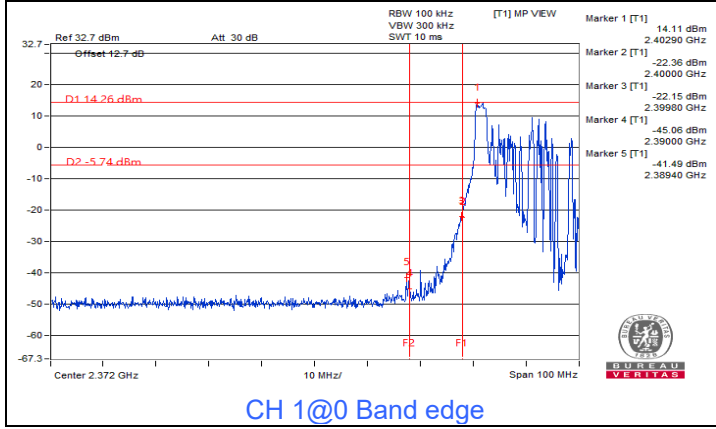
CH 12@8



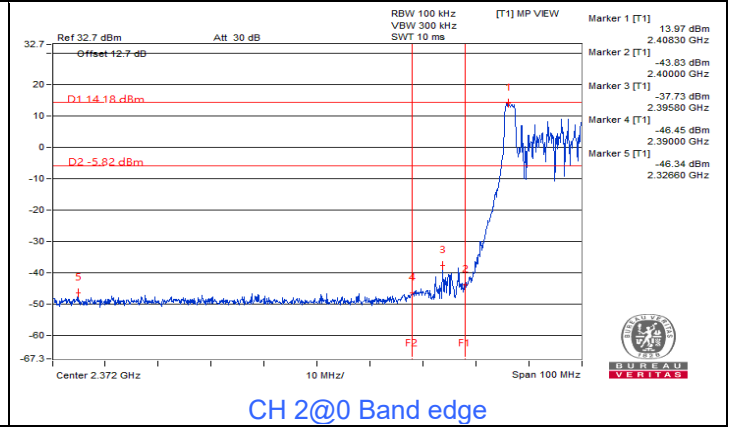
CH 13@8



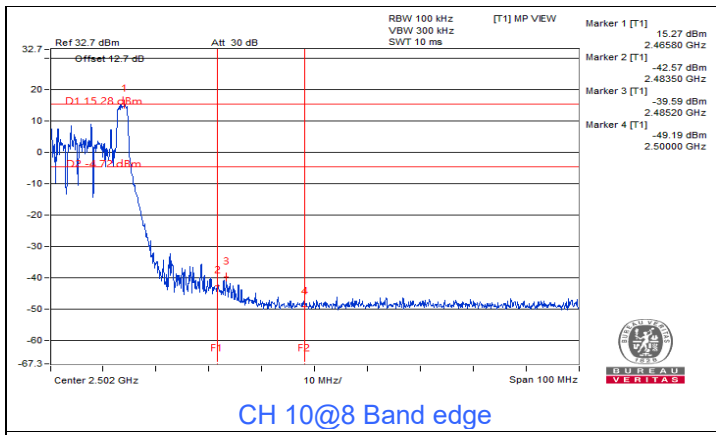
CH 13@8



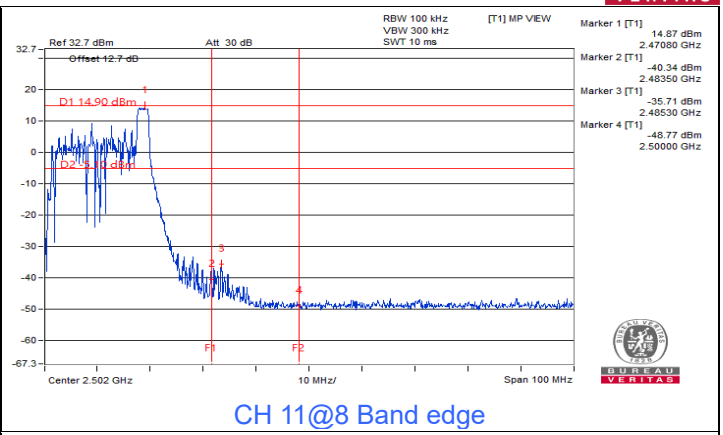
CH 1@0 Band edge



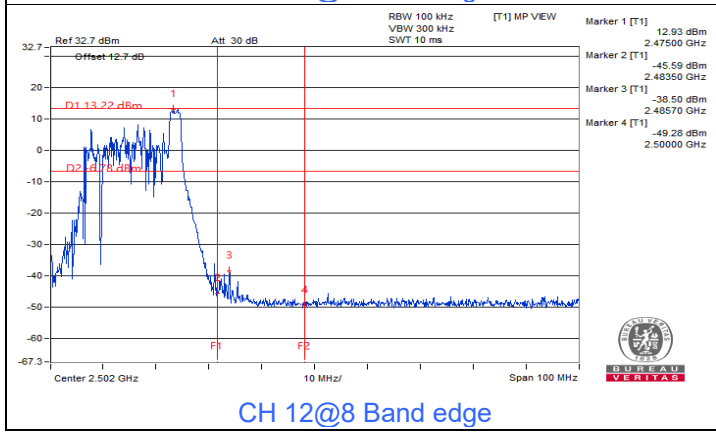
CH 2@0 Band edge



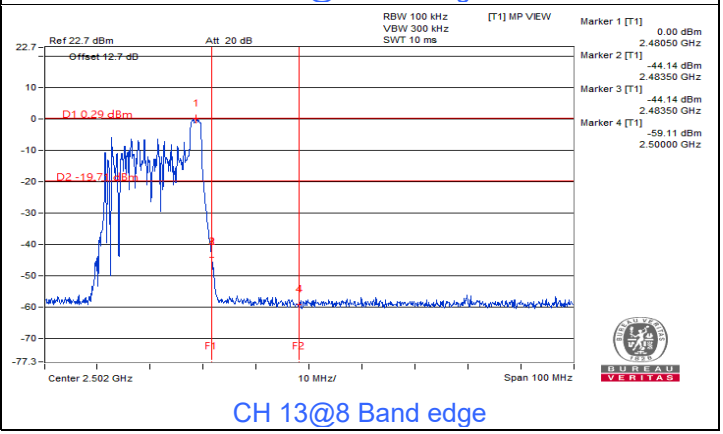
CH 10@8 Band edge



CH 11@8 Band edge



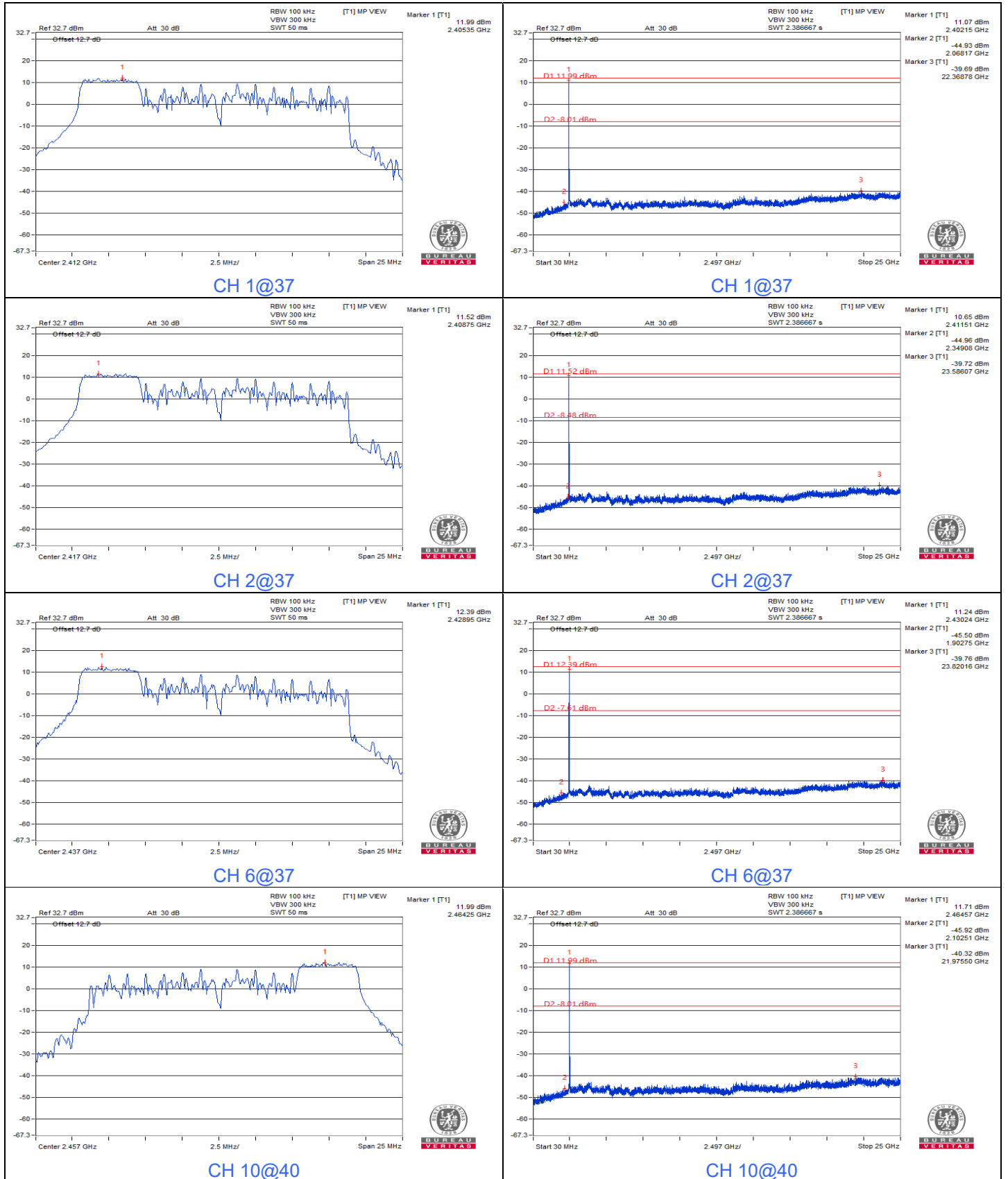
CH 12@8 Band edge

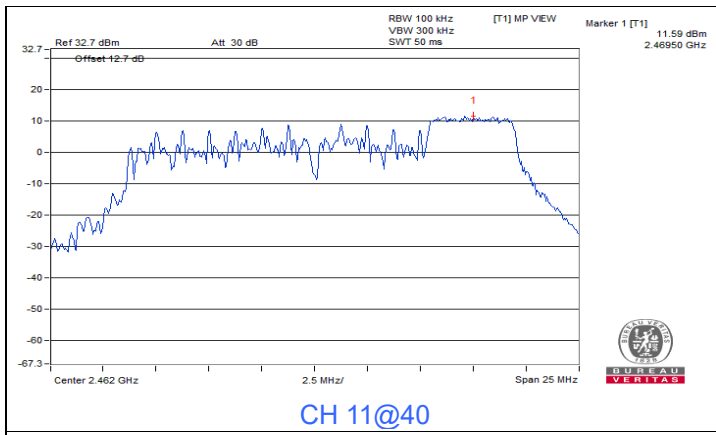


CH 13@8 Band edge

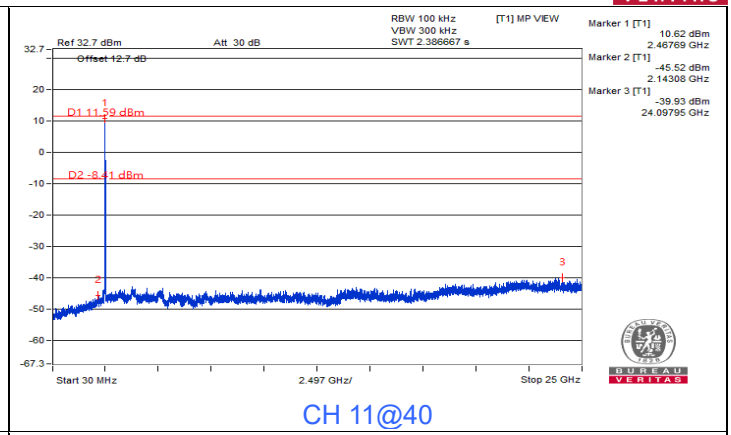


802.11be (EHT20) 52-tone RU

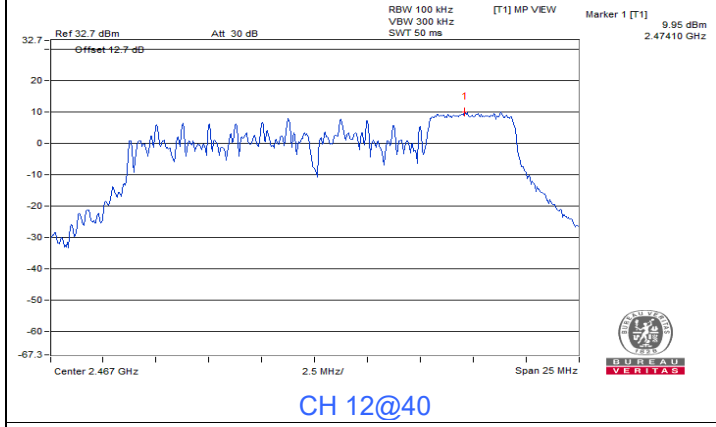




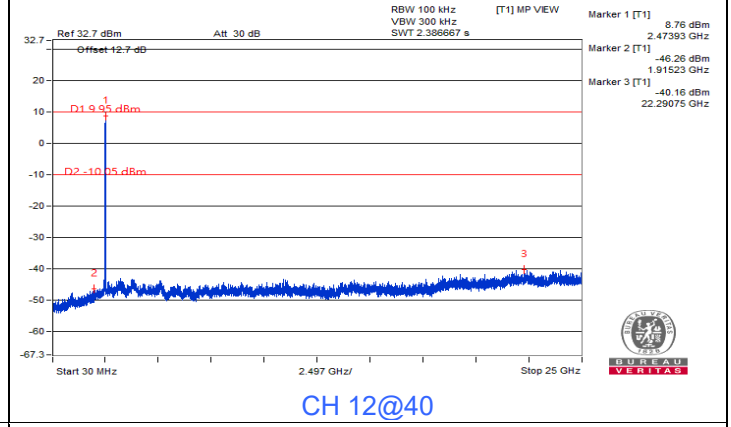
CH 11@40



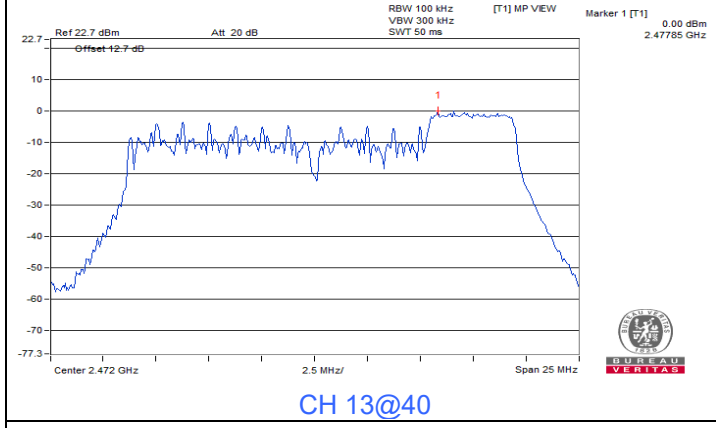
CH 11@40



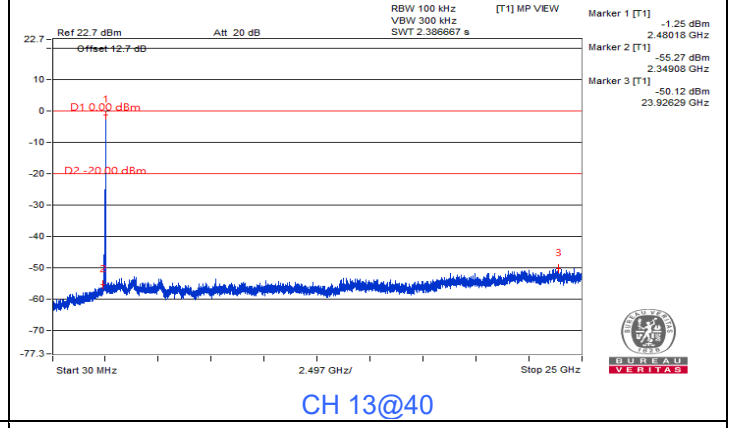
CH 12@40



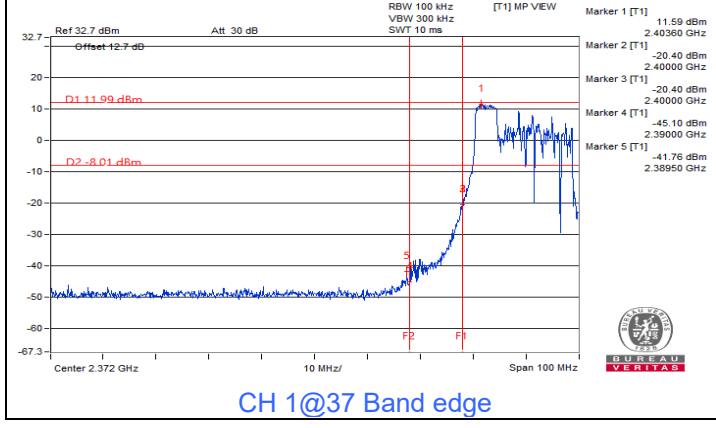
CH 12@40



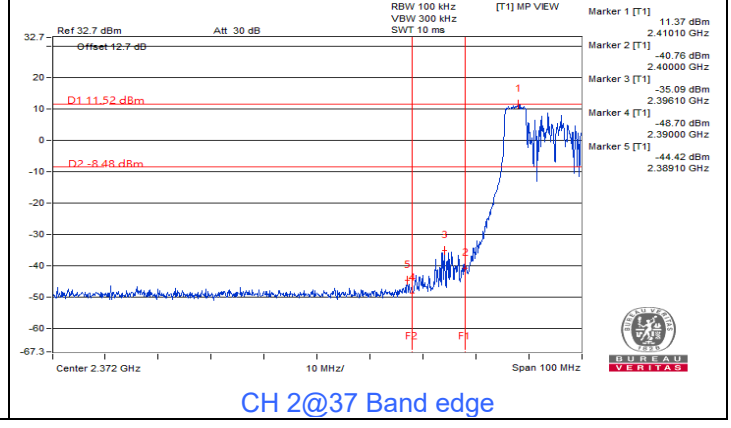
CH 13@40



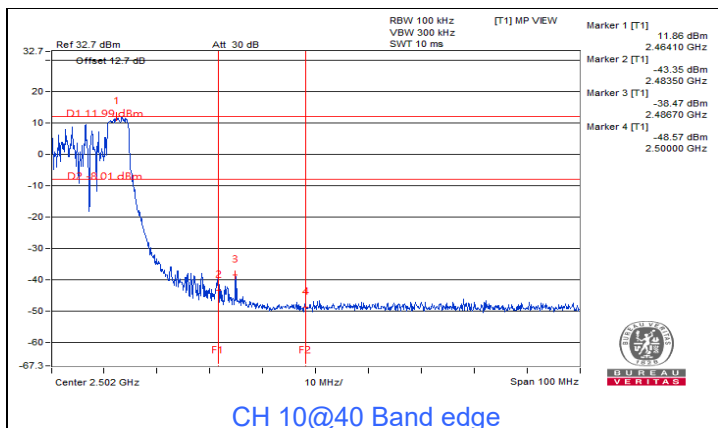
CH 13@40



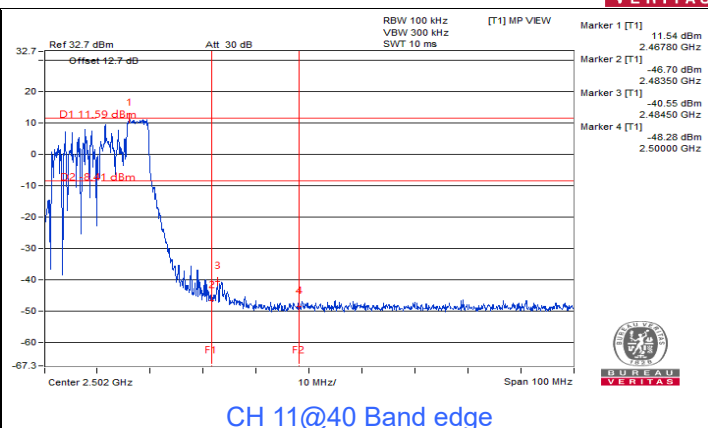
CH 1@37 Band edge



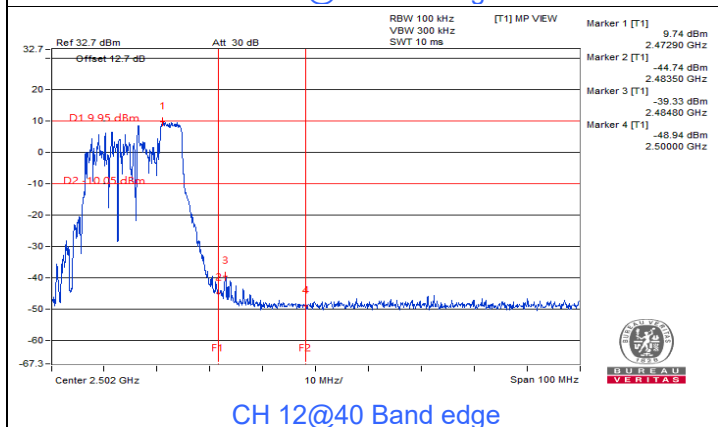
CH 2@37 Band edge



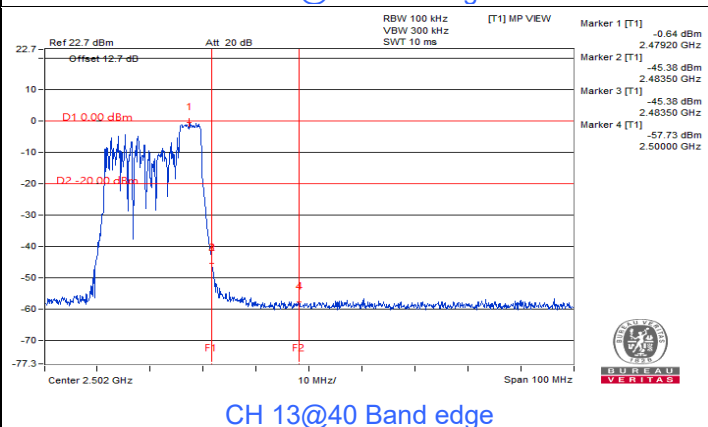
CH 10@40 Band edge



CH 11@40 Band edge



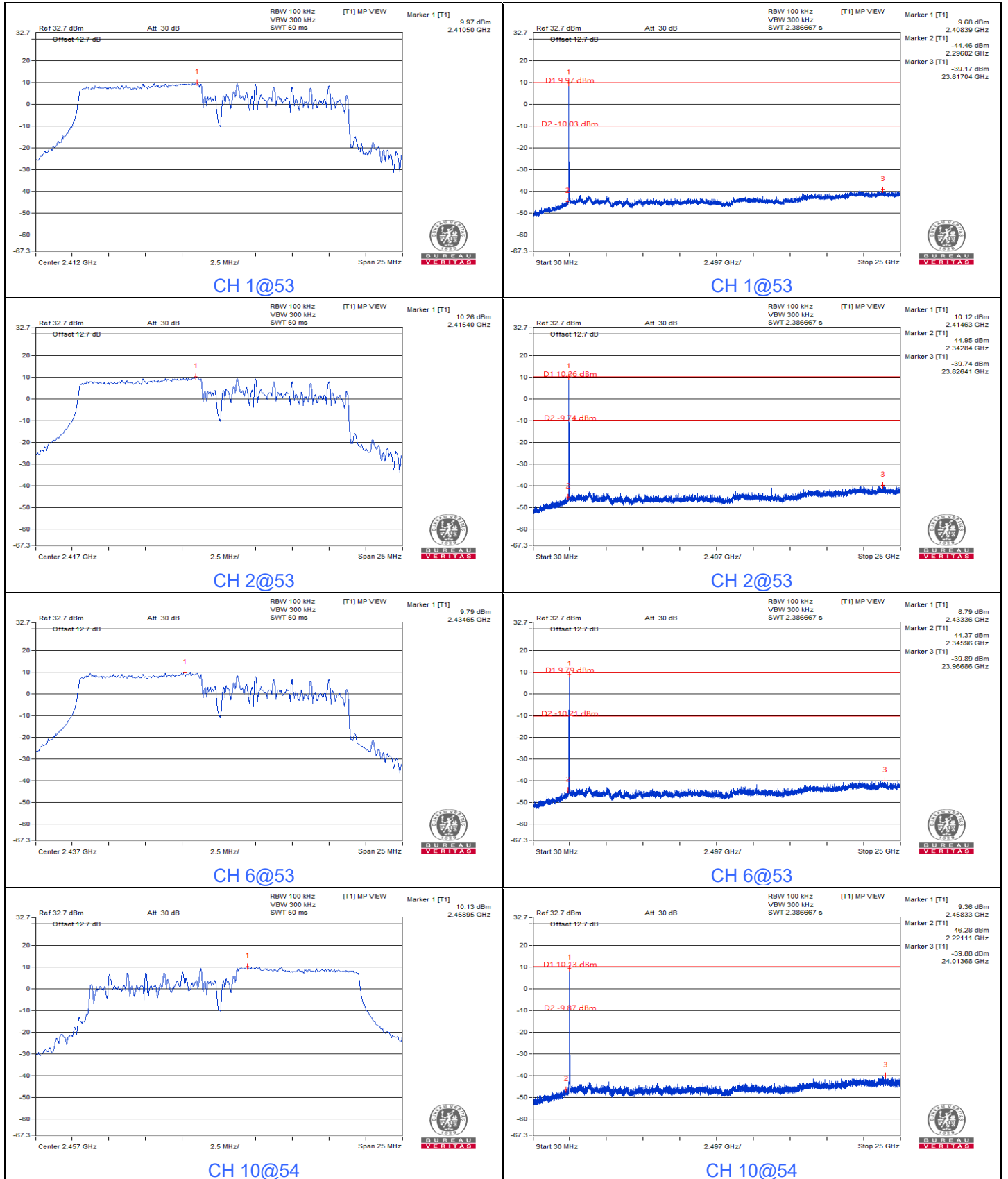
CH 12@40 Band edge

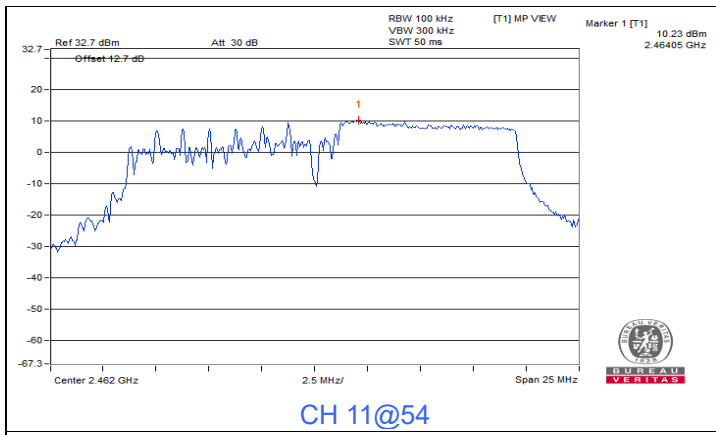


CH 13@40 Band edge

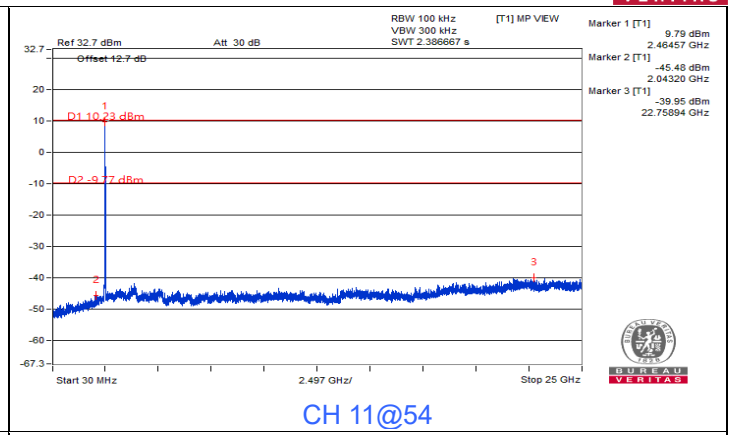


802.11be (EHT20) 106-tone RU

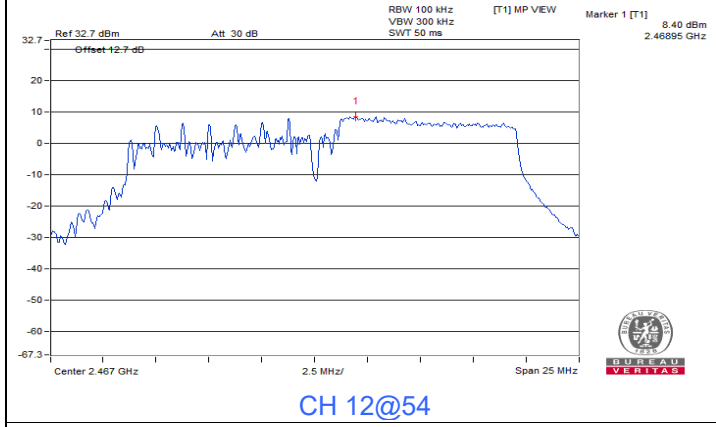




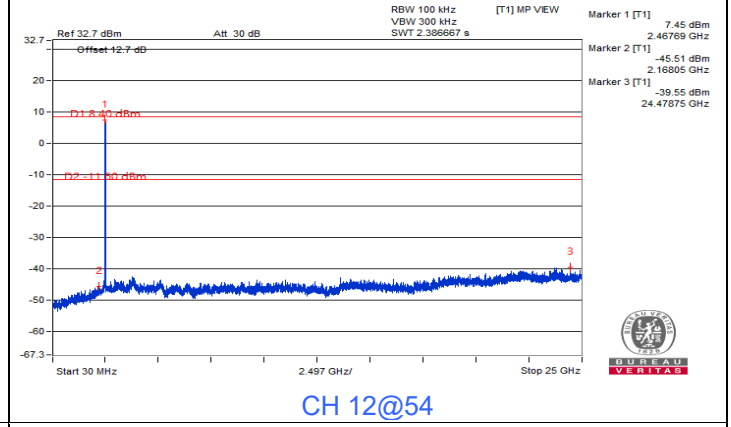
CH 11@54



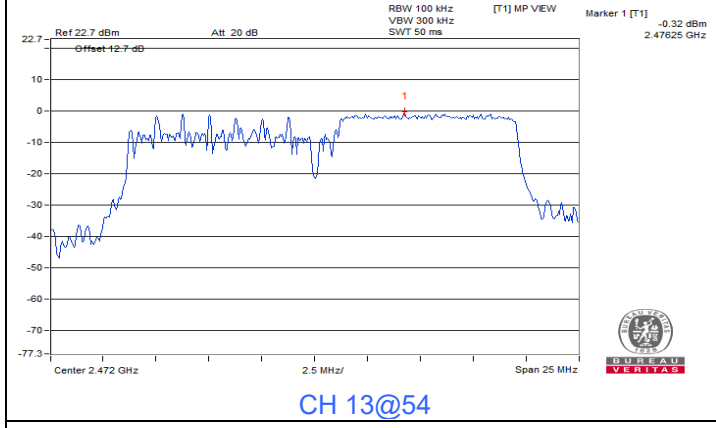
CH 11@54



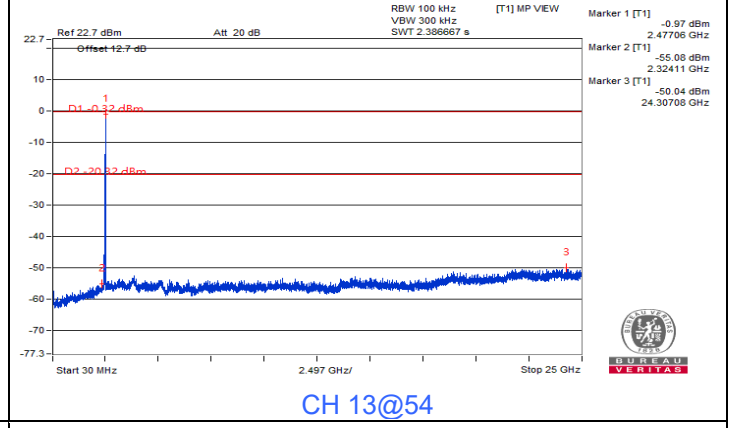
CH 12@54



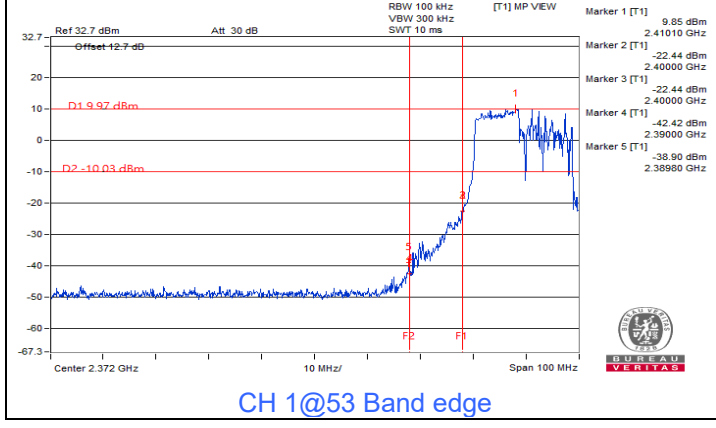
CH 12@54



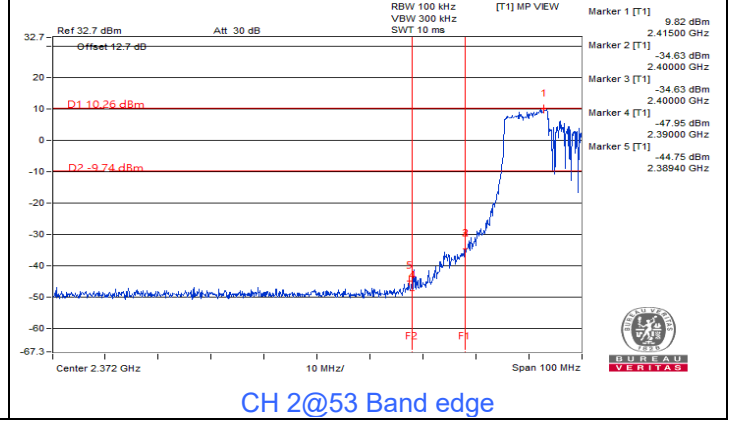
CH 13@54



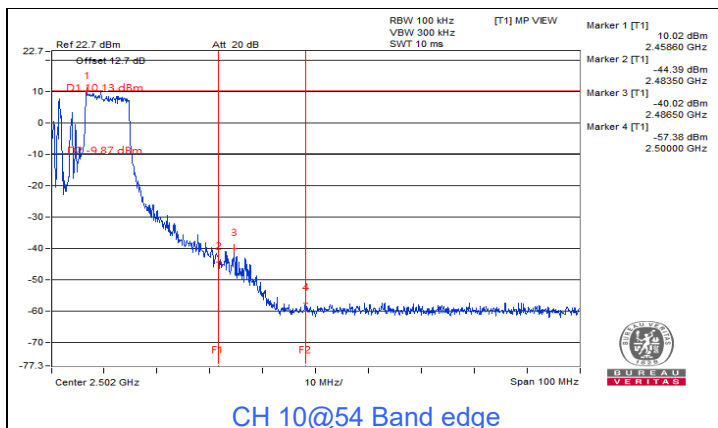
CH 13@54



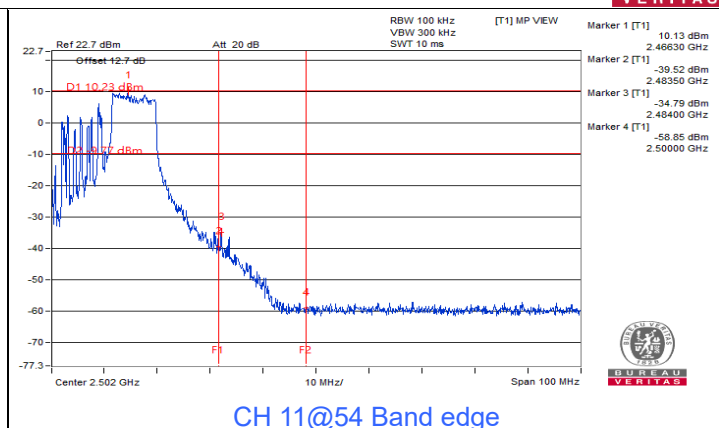
CH 1@53 Band edge



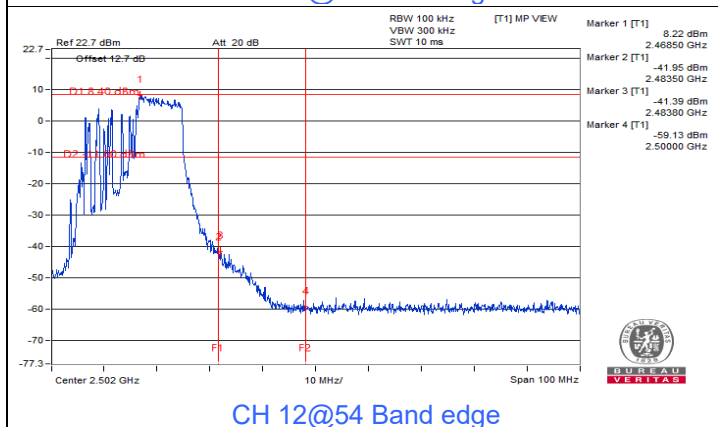
CH 2@53 Band edge



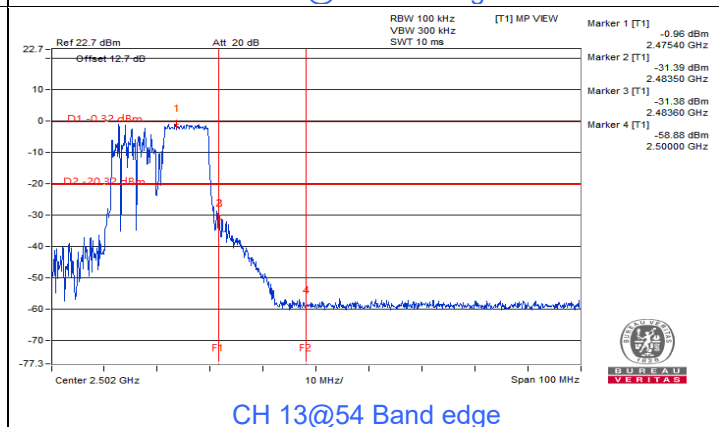
CH 10@54 Band edge



CH 11@54 Band edge



CH 12@54 Band edge



CH 13@54 Band edge

7.5 AC Power Conducted Emissions

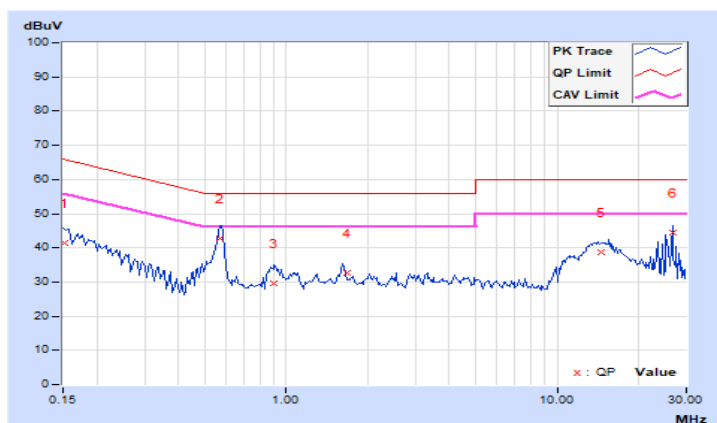
Mode B

RF Mode	802.11be (EHT20)	Channel	CH 6 : 2437 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Tom Yang		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15153	9.97	31.45	24.47	41.42	34.44	65.92	55.92	-24.50	-21.48
2	0.56847	9.99	32.76	26.35	42.75	36.34	56.00	46.00	-13.25	-9.66
3	0.90154	10.01	19.63	16.88	29.64	26.89	56.00	46.00	-26.36	-19.11
4	1.68715	10.04	22.76	18.93	32.80	28.97	56.00	46.00	-23.20	-17.03
5	14.55171	10.72	27.90	20.54	38.62	31.26	60.00	50.00	-21.38	-18.74
6	26.62354	11.22	33.37	28.15	44.59	39.37	60.00	50.00	-15.41	-10.63

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

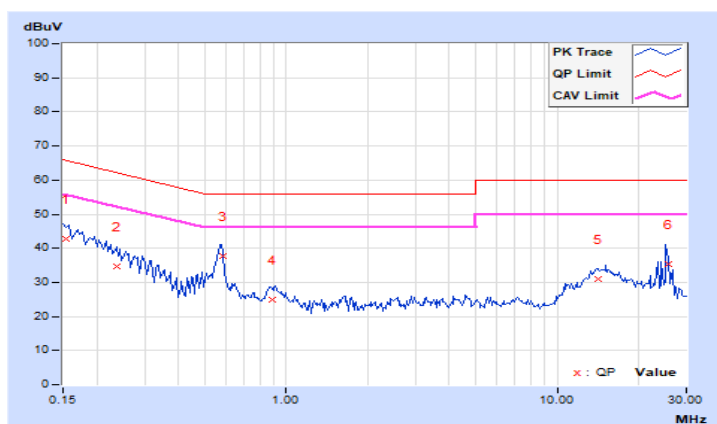


RF Mode	802.11be (EHT20)	Channel	CH 6 : 2437 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Tom Yang		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15293	10.01	32.83	19.71	42.84	29.72	65.84	55.84	-23.00	-26.12
2	0.23719	10.02	24.62	10.15	34.64	20.17	62.19	52.19	-27.55	-32.02
3	0.58191	10.04	27.76	18.53	37.80	28.57	56.00	46.00	-18.20	-17.43
4	0.89154	10.05	14.83	2.25	24.88	12.30	56.00	46.00	-31.12	-33.70
5	14.18217	10.61	20.46	13.35	31.07	23.96	60.00	50.00	-28.93	-26.04
6	25.87155	10.89	24.37	18.52	35.26	29.41	60.00	50.00	-24.74	-20.59

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



7.6 Unwanted Emissions below 1 GHz

Radiated versus Conducted Measurement

For Radiated measurement:

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

For Conducted measurement:

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

Conducted Emission Convert Formula

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

Notes:

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

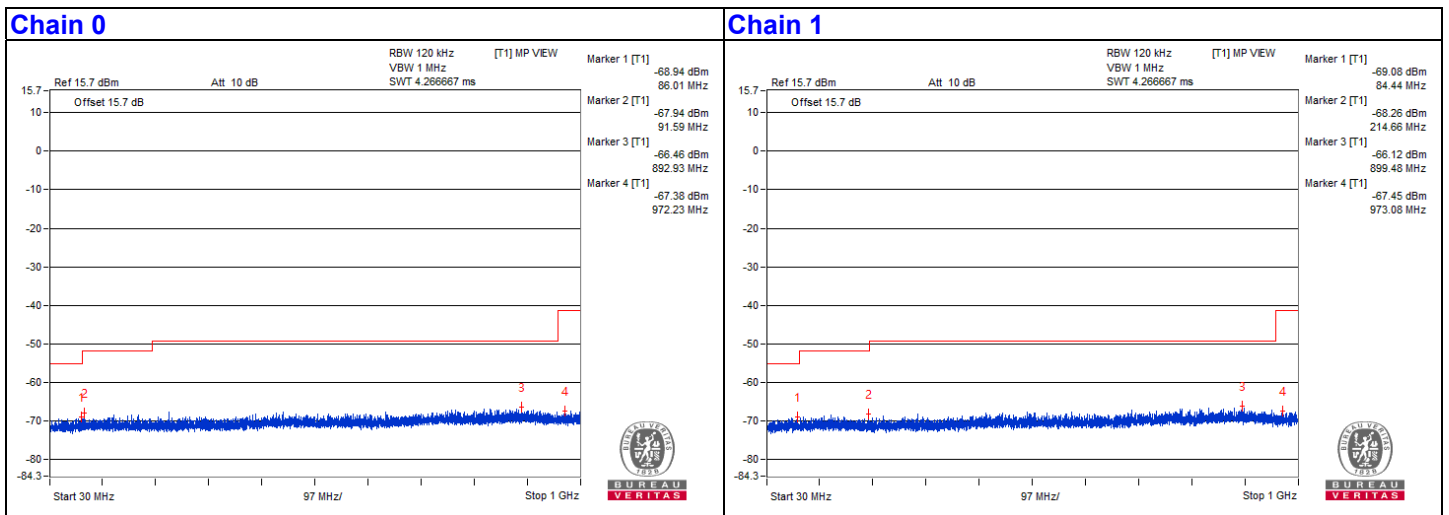
Mode A

802.11be (EHT20) - Channel 6

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	83.35	36.69	40	-3.31	-70.2	-69.34	8.17	-58.57
2	170.77	37.12	43.5	-6.38	-68.77	-69.94	8.17	-58.14
3	246.55	37.65	46	-8.35	-67.72	-70.2	8.17	-57.61
4	518.88	37.81	46	-8.19	-68.9	-68.38	8.17	-57.45
5	764.77	38.77	46	-7.23	-67.39	-67.98	8.17	-56.49
6	892.93	39.56	46	-6.44	-66.46	-67.35	8.17	-55.70

Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.



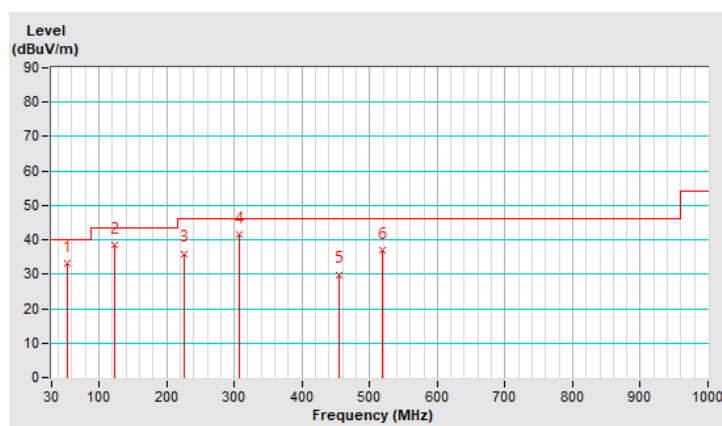
Mode B

RF Mode	802.11be (EHT20)	Channel	CH 6 : 2437 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	52.86	33.0 QP	40.0	-7.0	2.00 H	126	46.7	-13.7
2	122.87	38.3 QP	43.5	-5.2	1.50 H	126	53.6	-15.3
3	225.03	36.0 QP	46.0	-10.0	2.00 H	73	52.3	-16.3
4	307.75	41.6 QP	46.0	-4.4	2.00 H	198	54.0	-12.4
5	453.96	29.9 QP	46.0	-16.1	1.50 H	119	38.5	-8.6
6	517.95	37.1 QP	46.0	-8.9	2.00 H	307	44.6	-7.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

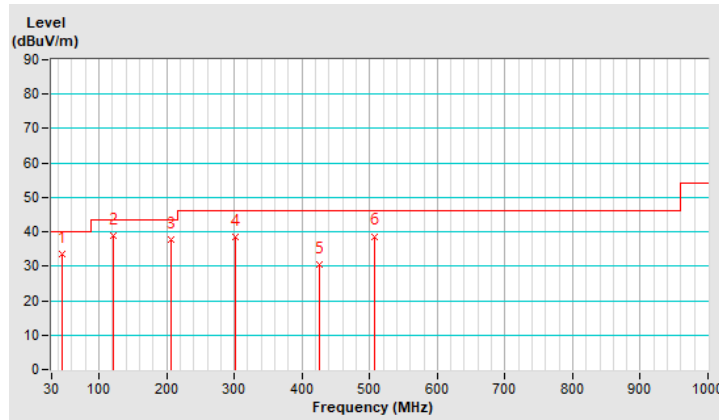


RF Mode	802.11be (EHT20)	Channel	CH 6 : 2437 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	46.23	33.6 QP	40.0	-6.4	2.00 V	210	47.2	-13.6
2	121.45	38.9 QP	43.5	-4.6	1.00 V	294	54.4	-15.5
3	206.82	37.8 QP	43.5	-5.7	1.00 V	65	54.6	-16.8
4	301.61	38.5 QP	46.0	-7.5	2.00 V	128	51.2	-12.7
5	425.00	30.4 QP	46.0	-15.6	2.00 V	216	39.7	-9.3
6	506.39	38.7 QP	46.0	-7.3	1.50 V	217	46.5	-7.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



7.7 Unwanted Emissions above 1 GHz

Radiated versus Conducted Measurement

For Radiated measurement:

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

For Conducted measurement:

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

Conducted Emission Convert Formula

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

Notes:

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

Mode A
2TX Mode
802.11b - Channel 1

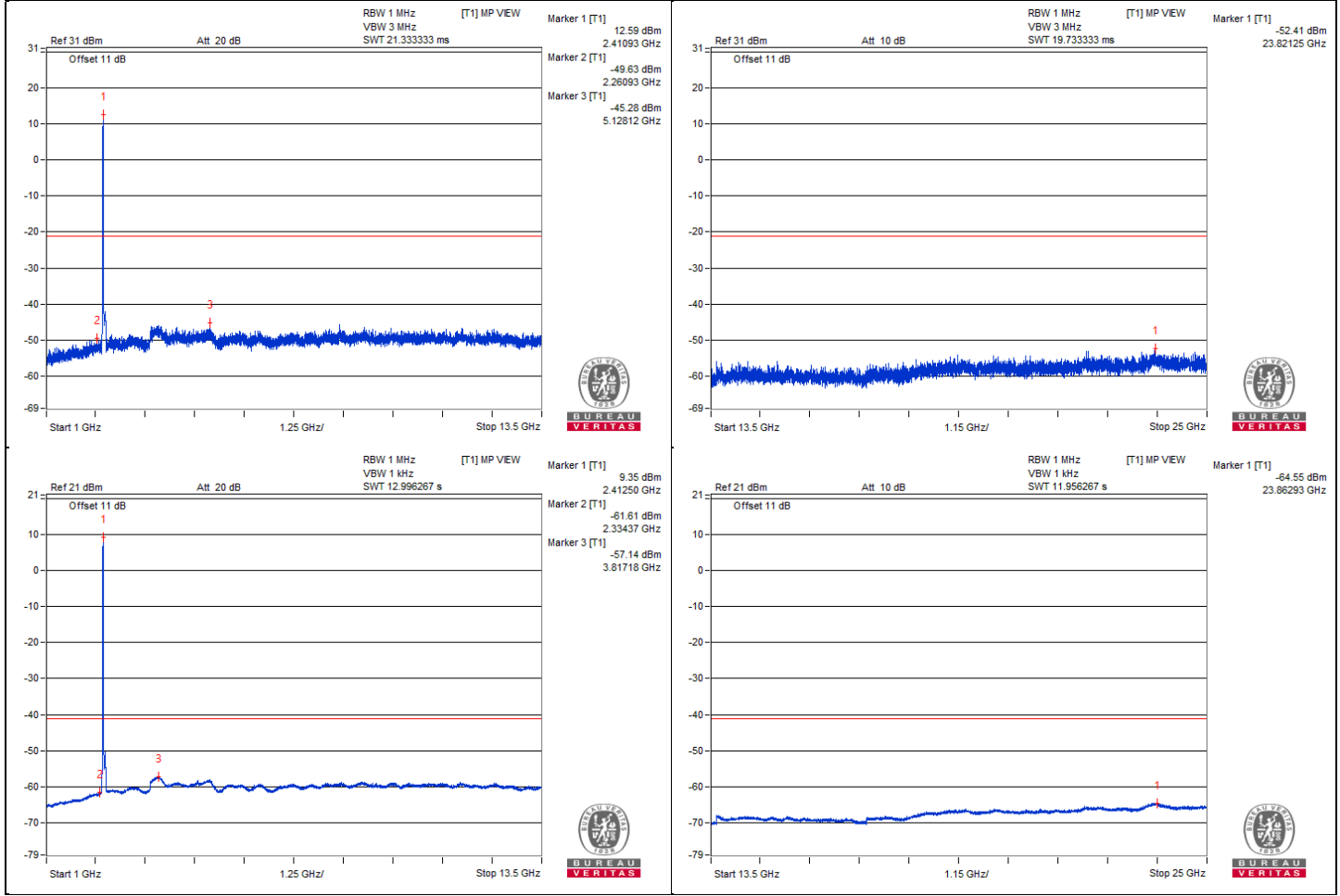
Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	4839.06	58.81 PK	74	-15.19	-50.61	-45.88	8.17	-36.45
2	4823.43	48.07 AV	54	-5.93	-58.35	-58.39	8.17	-47.19

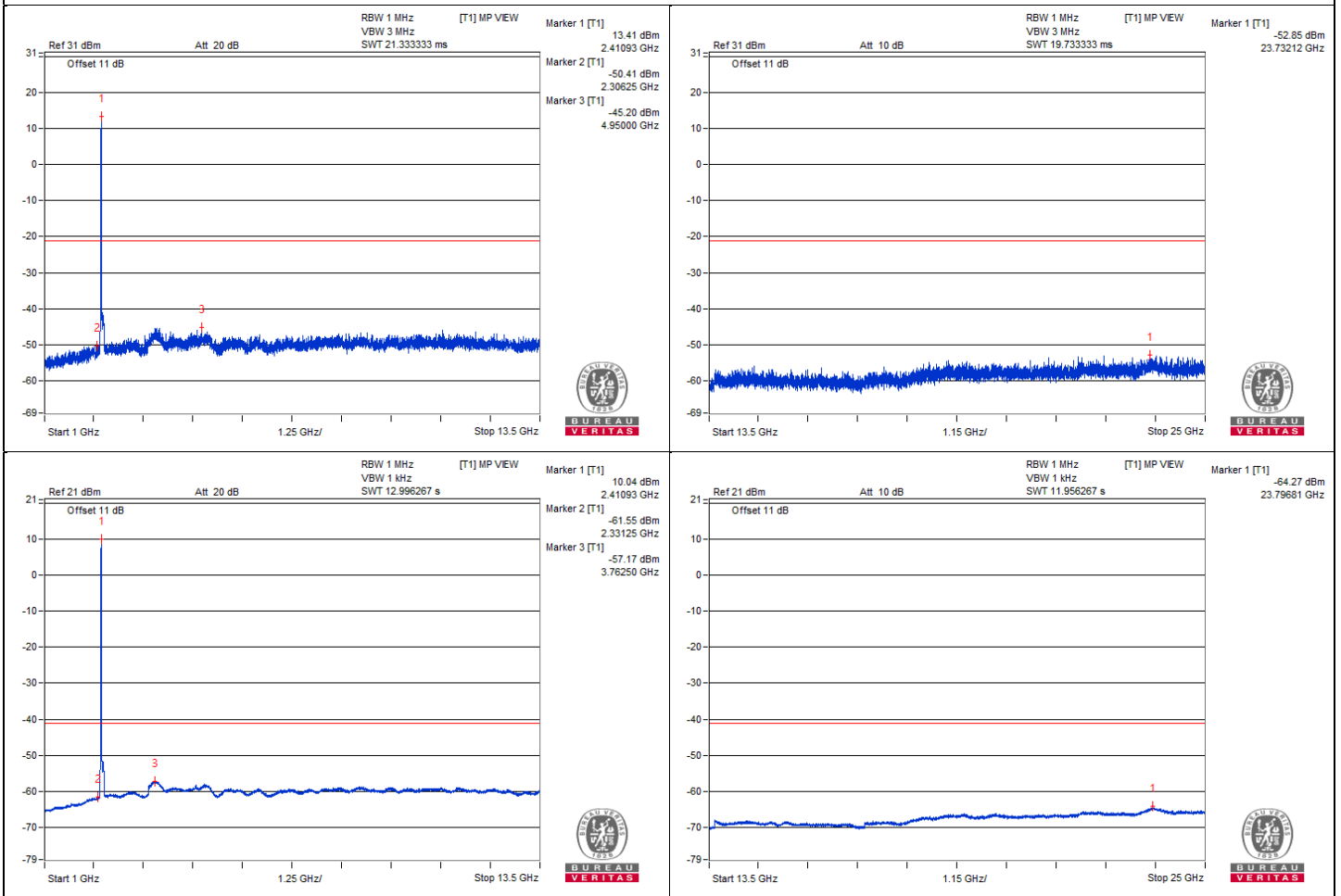
Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

Chain 0



Chain 1



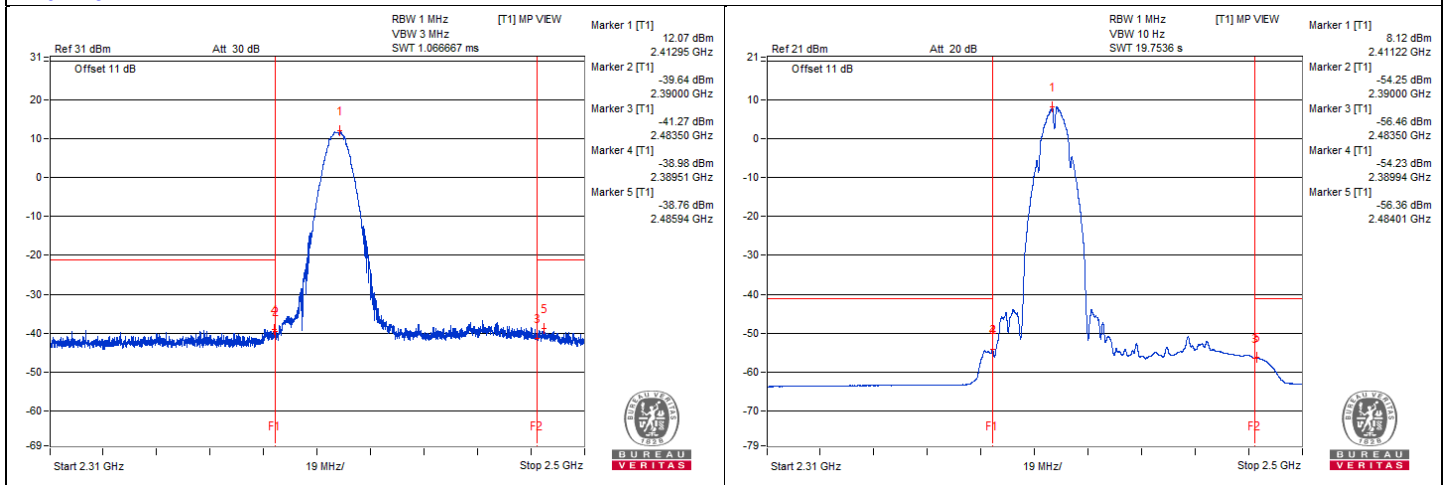
Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	2388.2	65.75 PK	74	-8.25	-39.91	-38.35	6.54	-29.51
2	2388.73	51.34 AV	54	-2.66	-54.94	-52.38	6.54	-43.92
3	2484.34	65.54 PK	74	-8.46	-39.55	-39.01	6.54	-29.72
4	2484.01	48.59 AV	54	-5.41	-56.36	-56.09	6.54	-46.67

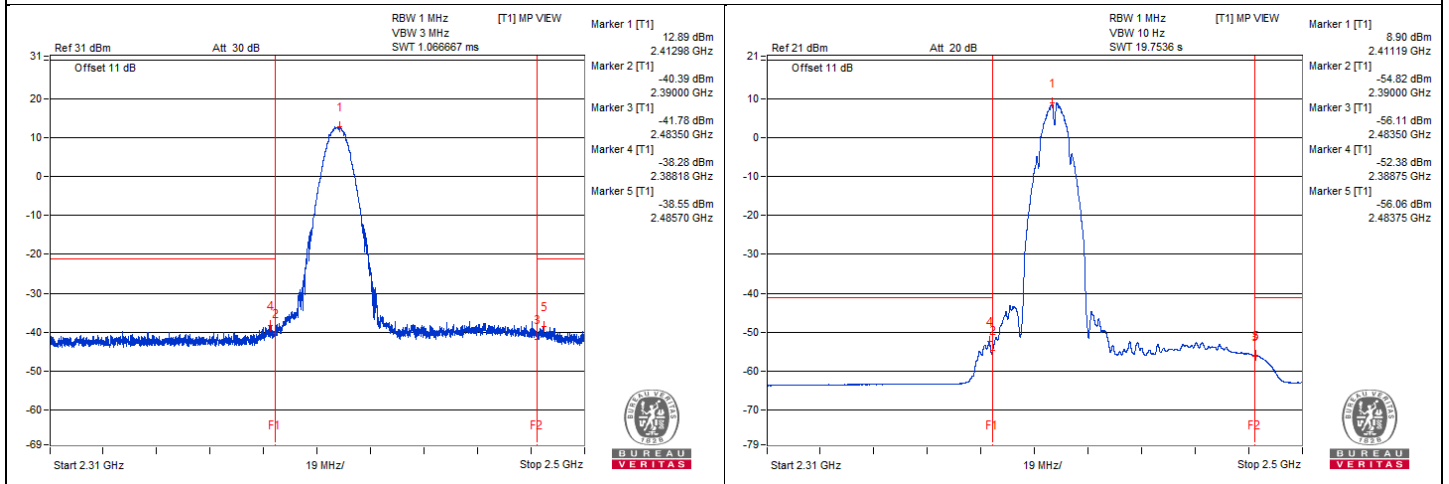
Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

Chain 0



Chain 1



802.11b - Channel 6

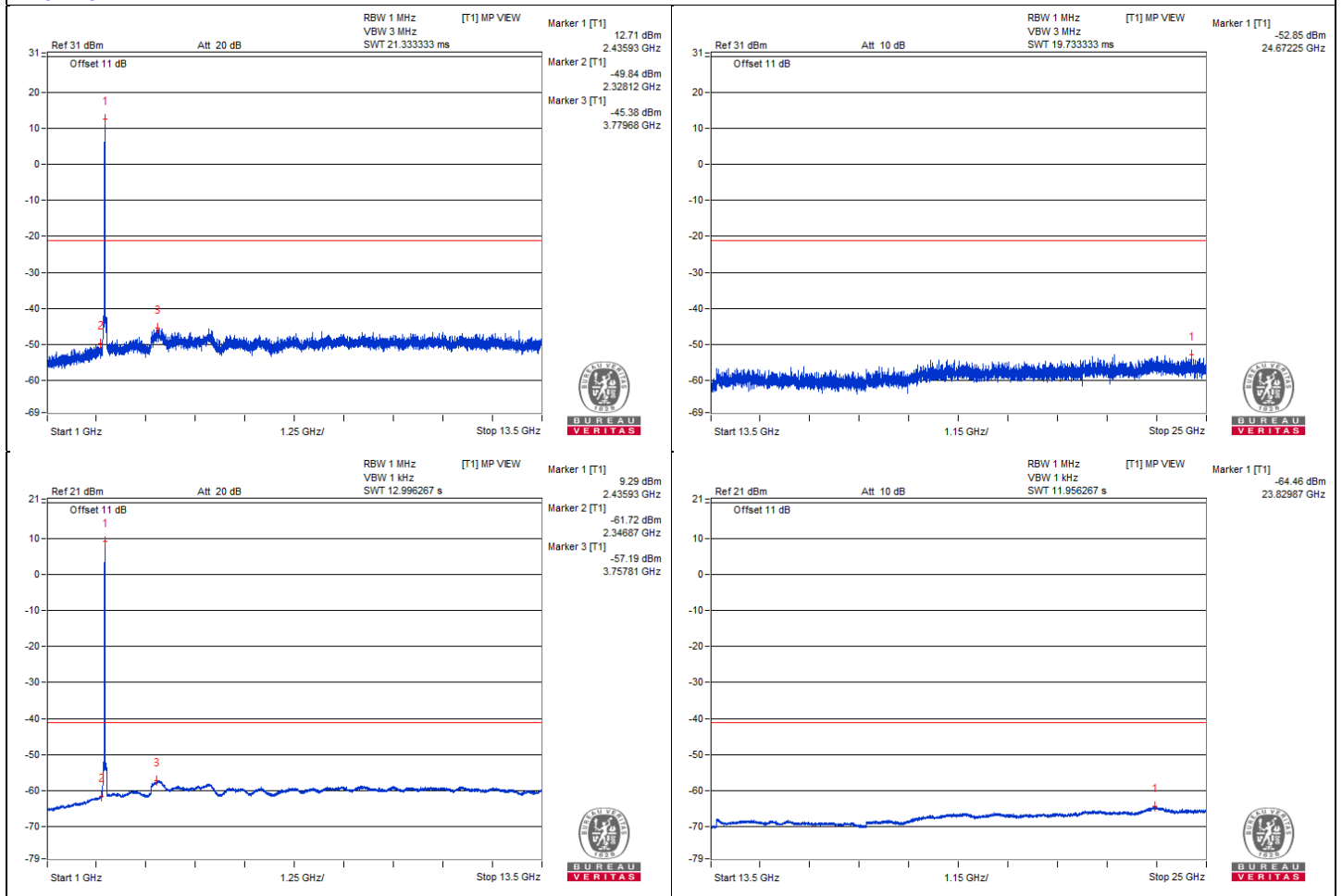
Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	4857.81	58.01 PK	74	-15.99	-48.85	-48.05	8.17	-37.25
2	4885.93	47.4 AV	54	-6.6	-59.02	-59.07	8.17	-47.86
3	7317.18	57.62 PK	74	-16.38	-48.63	-49.02	8.17	-37.64
4	7312.5	46.76 AV	54	-7.24	-59.73	-59.64	8.17	-48.50

Remarks:

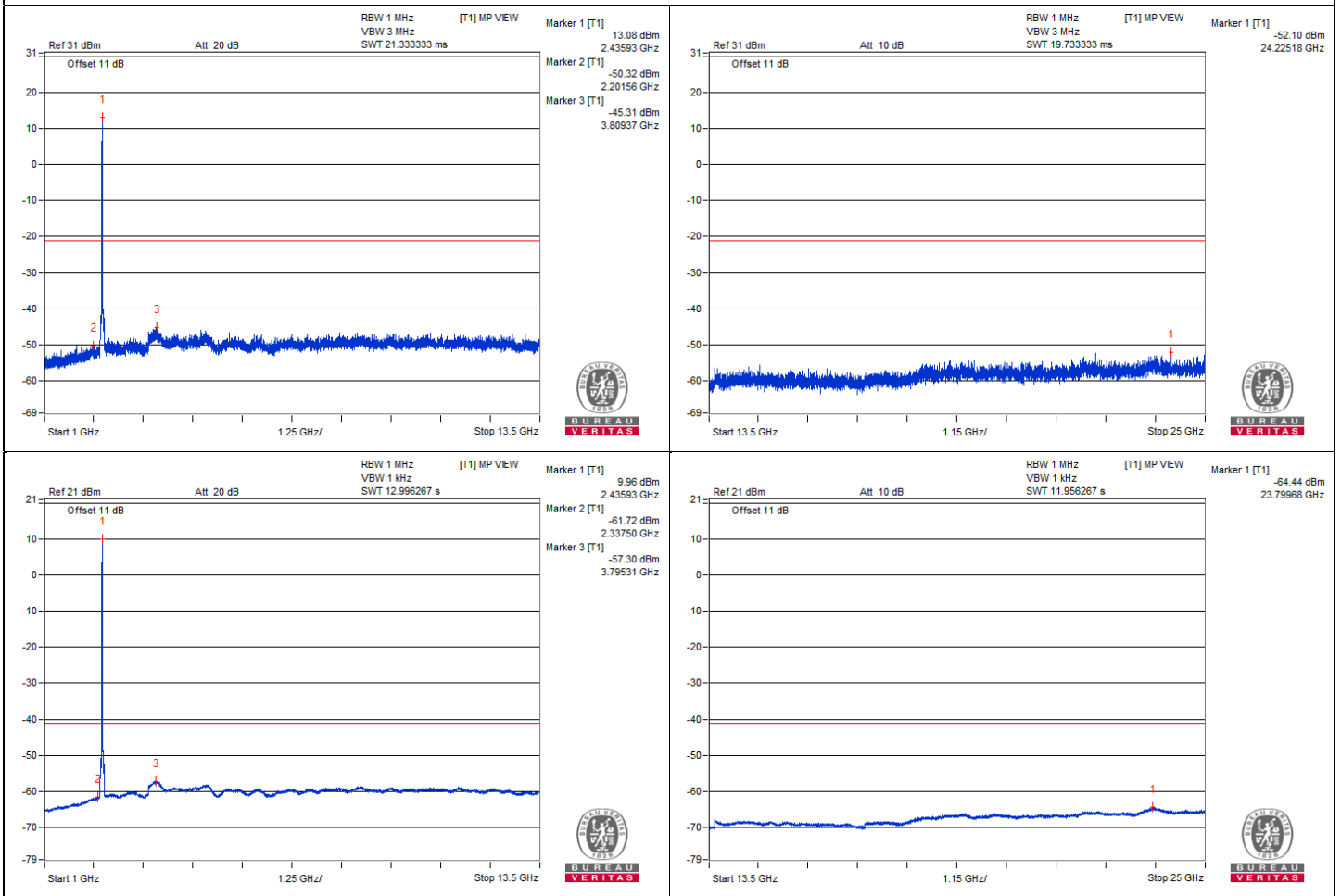
1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

Chain 0





Chain 1



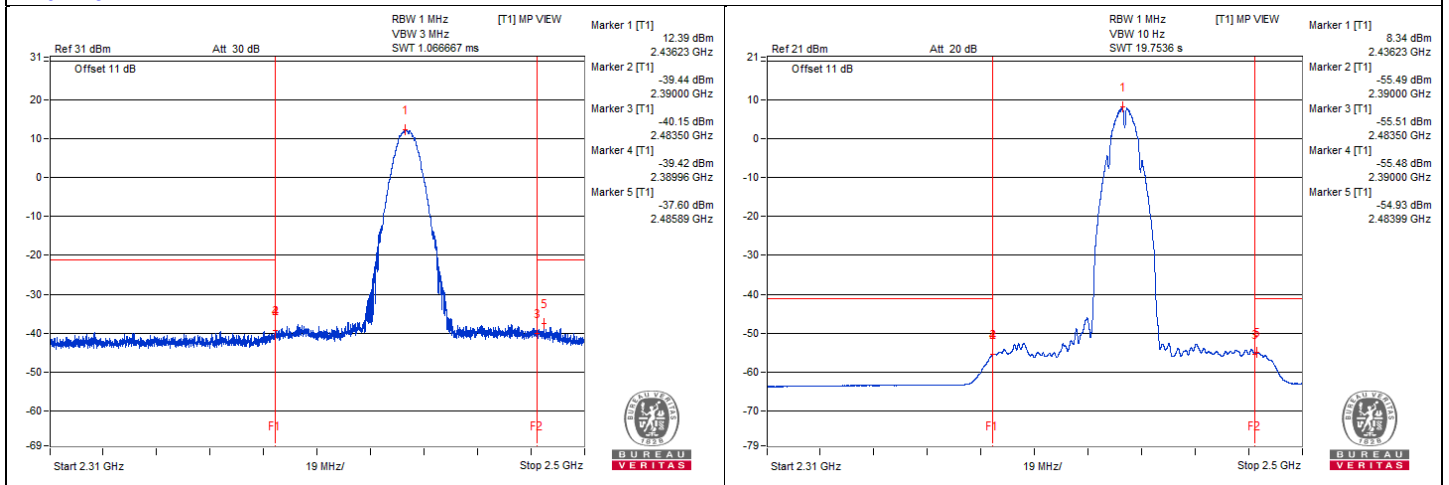
Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	2389.61	65.55 PK	74	-8.45	-41.66	-37.72	6.54	-29.71
2	2389.72	50.14 AV	54	-3.86	-55.8	-53.77	6.54	-45.12
3	2485.86	65.86 PK	74	-8.14	-37.9	-40.33	6.54	-29.40
4	2484.72	50.7 AV	54	-3.3	-55.16	-53.26	6.54	-44.56

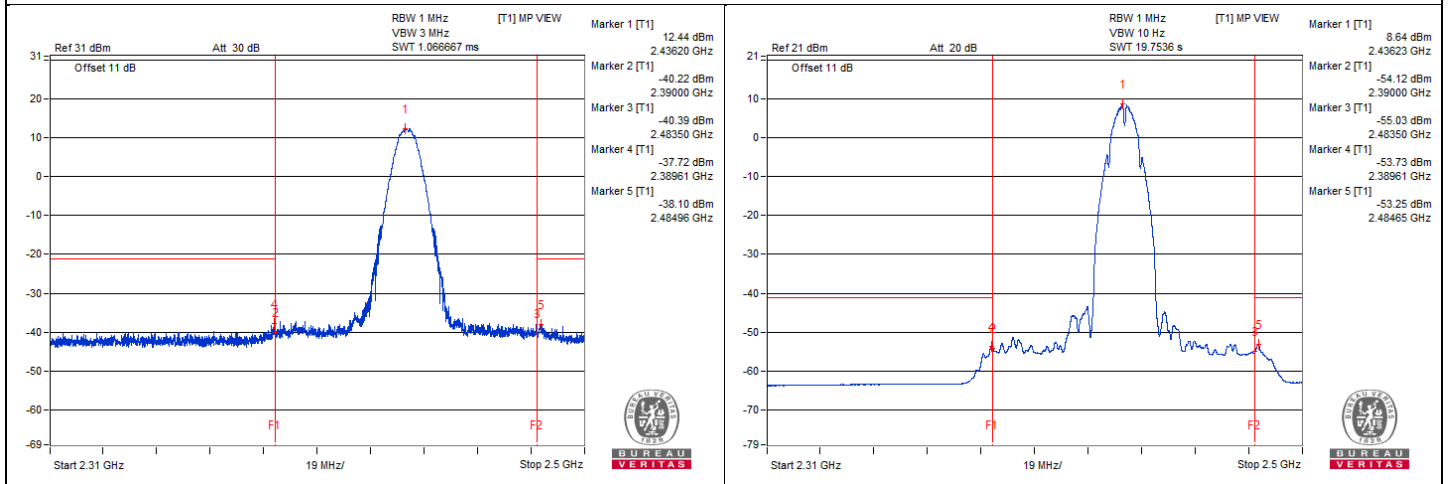
Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

Chain 0



Chain 1



802.11b - Channel 11

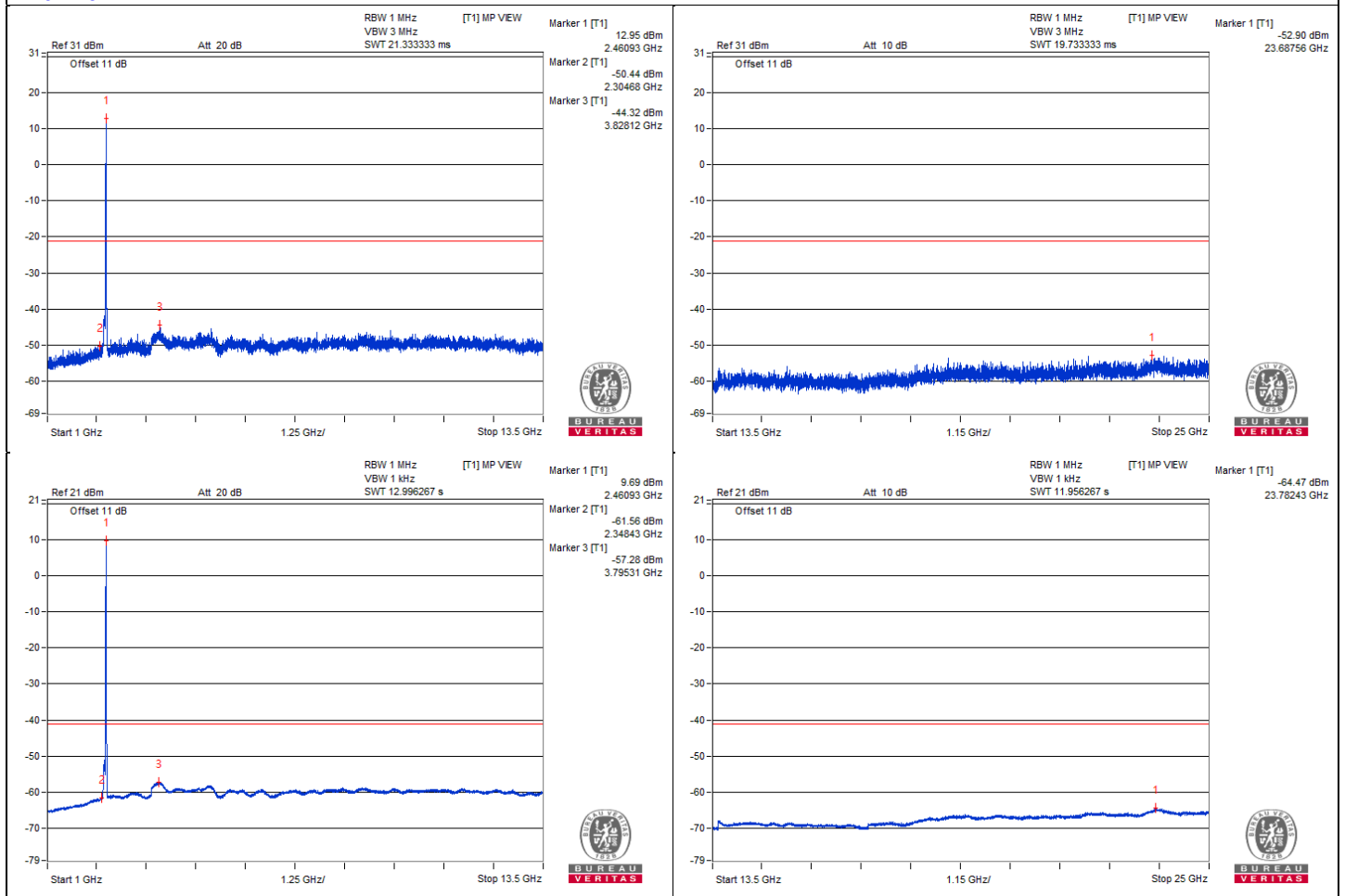
Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	4932.81	58.47 PK	74	-15.53	-47.16	-48.97	8.17	-36.79
2	4937.5	47.43 AV	54	-6.57	-59.02	-59.01	8.17	-47.83
3	7398.43	57.26 PK	74	-16.74	-49.1	-49.27	8.17	-38.00
4	7376.56	46.37 AV	54	-7.63	-59.84	-60.31	8.17	-48.89

Remarks:

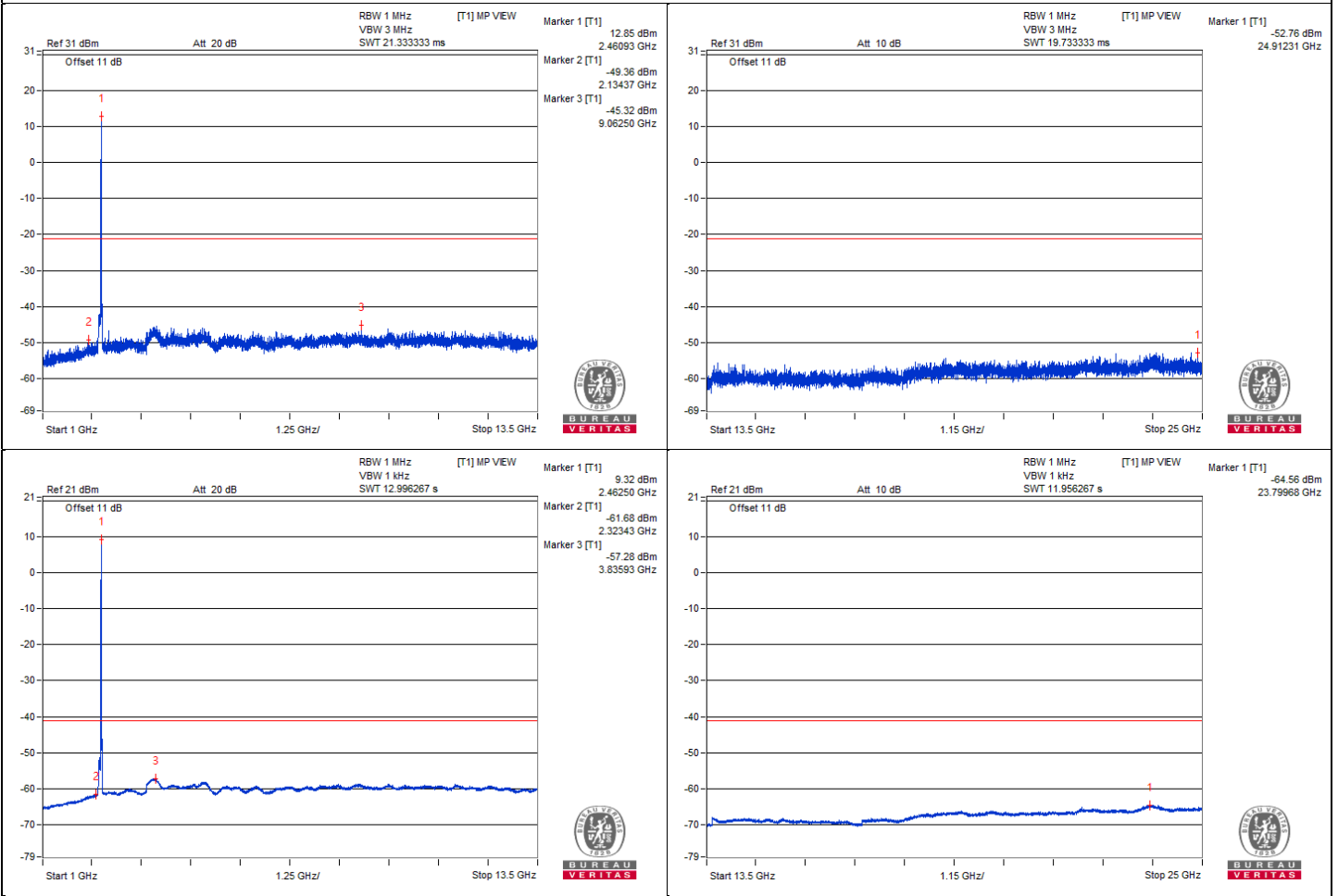
1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

Chain 0





Chain 1



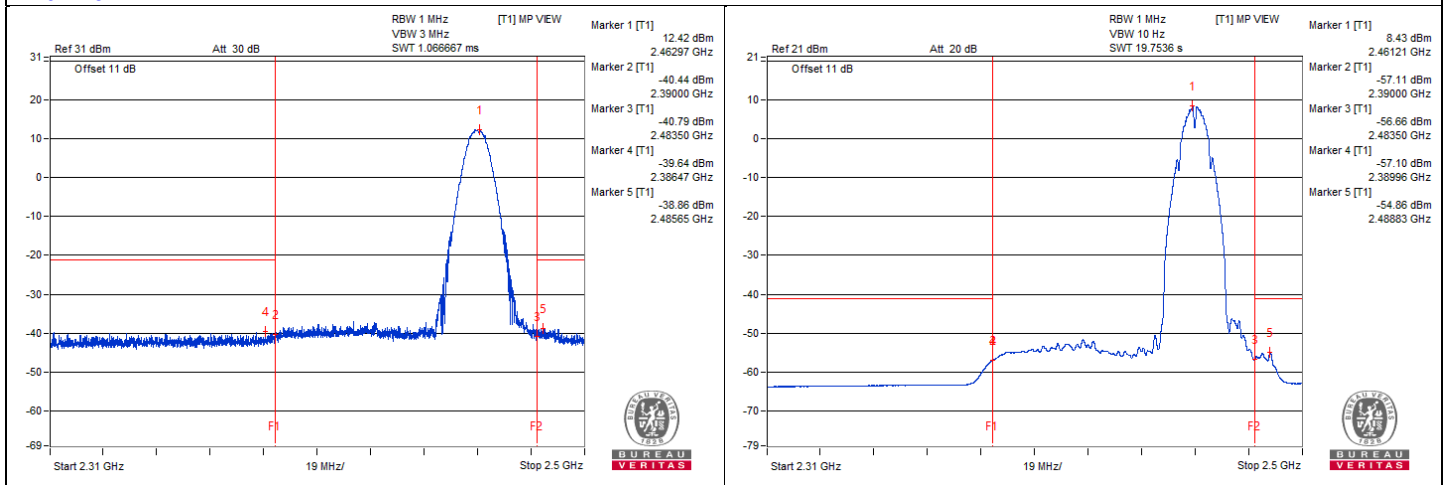
Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	2388.92	64.7 PK	74	-9.3	-40.08	-40.15	6.54	-30.56
2	2389.96	47.86 AV	54	-6.14	-57.1	-56.8	6.54	-47.40
3	2483.92	65.65 PK	74	-8.35	-39.24	-39.09	6.54	-29.61
4	2483.94	49.11 AV	54	-4.89	-55.88	-55.52	6.54	-46.15

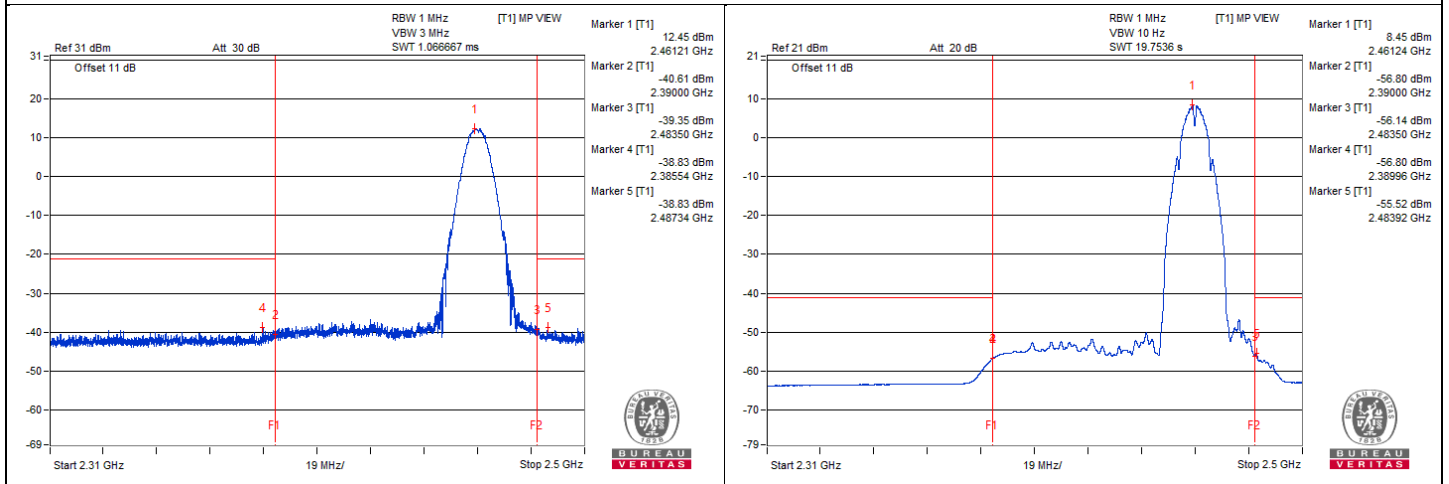
Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

Chain 0



Chain 1



802.11b - Channel 12

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	4935.93	58.33 PK	74	-15.67	-48.5	-47.76	8.17	-36.93
2	4951.56	47.66 AV	54	-6.34	-59.06	-58.52	8.17	-47.60
3	7415.62	56.66 PK	74	-17.34	-49.58	-49.99	8.17	-38.60
4	7385.93	46.25 AV	54	-7.75	-60.3	-60.09	8.17	-49.01

Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

Chain 0

