

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 15, Subpart C (Section 15.247)
Report No.: RFBAPP-WTW-P26030041
FCC ID: PD5-NWA1250
Product: Outdoor Wireless AP
Brand: Nile Global
Model No.: NWA1250
Received Date: 2026/3/10
Test Date: 2026/4/8 ~ 2026/6/3
Issued Date: 2026/9/3
Applicant: Delta Electronics, Inc.
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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lin Kou Laboratories
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FCC Registration / 788550 / TW0003
Designation Number:

Approved by: _____

Jeremy Lin

Jeremy Lin / Project Engineer

, Date: _____

2026/9/3

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Prepared by : Polly Chien / Specialist

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Release Control Record

Issue No.	Description	Date Issued
RFBAPP-WTW-P26030041	Original release.	2026/9/3

1 Certificate

Product: Outdoor Wireless AP

Brand: Nile Global

Test Model: NWA1250

Sample Status: Engineering sample

Applicant: Delta Electronics, Inc.

Test Date: 2026/4/8 ~ 2026/6/3

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

Measurement procedure: ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024
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 -13.36 dB at 2.38200 MHz
15.205 / 15.209 / 15.247(d)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -1.4 dB at 38.73 MHz
15.205 / 15.209 / 15.247(d)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -0.1 dB at 2483.50 MHz
15.203	Antenna Requirement	Pass	Antenna connector is I-PEX not a standard connector.

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

2.1 Measurement Uncertainty

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

Measurement	Specification	Expanded Uncertainty (k=2) (±)
RF Output Power	-	1.371 dB
Power Spectral Density	-	1.017 dB
6 dB Bandwidth	-	206.5 Hz
Conducted Out of Band Emissions	9 kHz ~ 40 GHz	2.79 dB
AC Power Conducted Emissions	9 kHz ~ 30 MHz	2.90 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	3.59 dB
	30 MHz ~ 1 GHz	3.6 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	2.29 dB
	18 GHz ~ 40 GHz	2.29 dB

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

2.2 Supplementary Information

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

3 General Information

3.1 General Description

Product	Outdoor Wireless AP
Brand	Nile Global
Test Model	NWA1250
Status of EUT	Engineering sample
Power Supply Rating	54 Vdc (From POE)
Modulation Type	Traffic Radio: CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in VHT mode 1024QAM for OFDMA in 11ax mode 4096QAM for OFDMA in 11be mode Scan Radio: CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in VHT mode 1024QAM for OFDMA in 11ax mode
Modulation Technology	DSSS, OFDM, OFDMA
Transfer Rate	Traffic Radio: Up to 688.2 Mbps Scan Radio: Up to 573.5 Mbps
Operating Frequency	2.412 GHz ~ 2.462 GHz
Number of Channel	802.11b, 802.11g, 802.11n (HT20), VHT20, 802.11ax (HE20), 802.11be (EHT20):11 802.11n (HT40), VHT40, 802.11ax (HE40), 802.11be (EHT40):7
Partial RU Mode	Not support
Channel Puncturing	Not support
Output Power	Traffic Radio: 533.289 mW (27.27 dBm) Scan Radio: 341.615 mW (25.34 dBm)

Note:

1. The EUT uses following accessories.

Item	Brand	Model	Specification
Wall Mount	-	-	-

2. There are five modules for the EUT.

Mode	Function	Radio
Traffic	WLAN (2.4G)	1
Traffic	WLAN (5G)	2
Scan	WLAN (2.4G+5G)	4
Traffic	BT	5

3. Simultaneously transmission condition.

Condition	Technology			
1	WLAN 2.4G (Radio 1)	WLAN 5G (Radio 2)	BT LE (Radio 5)	WLAN 2.4G (Radio 4)
2	WLAN 2.4G (Radio 1)	WLAN 5G (Radio 2)	BT LE (Radio 5)	WLAN 5G (Radio 4)
Note: The emission of the simultaneous operation has been evaluated, and no non-compliance was found.				

4. There are Bluetooth and WLAN (2.4 GHz & 5 GHz & Scan radio) technology used for the EUT.

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

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna No.	Radio	Mode	Antenna Gain (dBi)	Frequency range (MHz)	Antenna Type	Connector Type
Ant. 1	2	WLAN	8.56	5150	Patch	ipex
			8.36	5200	Patch	ipex
			8.35	5250	Patch	ipex
			8.24	5300	Patch	ipex
			8.24	5350	Patch	ipex
			8.30	5470	Patch	ipex
			8.02	5600	Patch	ipex
			8.05	5725	Patch	ipex
			8.18	5785	Patch	ipex
			8.10	5850	Patch	ipex
Ant. 2		WLAN	8.99	5150	Patch	ipex
			8.82	5200	Patch	ipex
			8.73	5250	Patch	ipex
			8.53	5300	Patch	ipex
			8.44	5350	Patch	ipex
			8.36	5470	Patch	ipex
			8.09	5600	Patch	ipex
			8.10	5725	Patch	ipex
			8.11	5785	Patch	ipex
			8.17	5850	Patch	ipex
Ant. 3		WLAN	8.99	5150	Patch	ipex
			8.92	5200	Patch	ipex
			8.87	5250	Patch	ipex
			8.71	5300	Patch	ipex
			8.56	5350	Patch	ipex
			8.10	5470	Patch	ipex
			8.18	5600	Patch	ipex
			8.09	5725	Patch	ipex
			8.32	5785	Patch	ipex
			8.44	5850	Patch	ipex
Ant. 4	WLAN	8.98	5150	Patch	ipex	
		8.87	5200	Patch	ipex	
		8.88	5250	Patch	ipex	
		8.94	5300	Patch	ipex	
		8.88	5350	Patch	ipex	
		8.96	5470	Patch	ipex	
		8.91	5600	Patch	ipex	
		8.93	5725	Patch	ipex	
		8.90	5785	Patch	ipex	
		8.81	5850	Patch	ipex	

Antenna No.	Radio	Mode	Antenna Gain (dBi)	Frequency range (MHz)	Antenna Type	Connector Type
Ant. 5	1	WLAN	7.25	2400	Patch	ipex
			7.01	2450	Patch	ipex
			7.47	2500	Patch	ipex
Ant. 6		WLAN	7.80	2400	Patch	ipex
			8.65	2450	Patch	ipex
			8.25	2500	Patch	ipex
Ant. 11	4	WLAN	6.88	2400	PIFA	ipex
			6.68	2450	PIFA	ipex
			6.03	2500	PIFA	ipex
			5.76	5150	PIFA	ipex
			5.09	5200	PIFA	ipex
			4.80	5250	PIFA	ipex
			4.09	5300	PIFA	ipex
			4.34	5350	PIFA	ipex
			5.40	5470	PIFA	ipex
			5.64	5600	PIFA	ipex
			5.31	5725	PIFA	ipex
			5.55	5785	PIFA	ipex
			5.21	5850	PIFA	ipex
Ant. 12		WLAN	6.04	2400	PIFA	ipex
			6.13	2450	PIFA	ipex
			5.66	2500	PIFA	ipex
			6.89	5150	PIFA	ipex
			6.40	5200	PIFA	ipex
			5.97	5250	PIFA	ipex
			5.81	5300	PIFA	ipex
			5.68	5350	PIFA	ipex
			5.87	5470	PIFA	ipex
			5.12	5600	PIFA	ipex
			6.67	5725	PIFA	ipex
			6.45	5785	PIFA	ipex
Ant. 13	5	BT	6.83	5850	PIFA	ipex
			5.96	2400	PIFA	ipex
			5.63	2450	PIFA	ipex
			6.62	2500	PIFA	ipex

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

2. The EUT incorporates a MIMO function:

Traffic Radio:

2.4 GHz Band			
Modulation Mode	Beamforming Mode	TX & RX Configuration	
802.11b	Not Support	2TX	2RX
802.11g	Not Support	2TX	2RX
802.11n (HT20)	Support	2TX	2RX
802.11n (HT40)	Support	2TX	2RX
VHT20	Support	2TX	2RX
VHT40	Support	2TX	2RX
802.11ax (HE20)	Support	2TX	2RX
802.11ax (HE40)	Support	2TX	2RX
802.11be (EHT20)	Support	2TX	2RX
802.11be (EHT40)	Support	2TX	2RX

Note:

1. All of modulation mode support beamforming function except 802.11b / 802.11g modulation mode.
2. The EUT support Beamforming and CDD mode, therefore both mode were investigated and the worst case scenario was identified. The worst case data were presented in test report.
3. The modulation and bandwidth are similar for 802.11n mode for 20 MHz (40 MHz), VHT mode for 20 MHz (40 MHz), 802.11ax mode for 20 MHz (40 MHz) and 802.11be mode for 20 MHz (40 MHz). Therefore the investigated worst case is the representative mode in test report.

Scan Radio:

2.4 GHz Band			
Modulation Mode	Beamforming Mode	TX & RX Configuration	
802.11b	Not Support	2TX	2RX
802.11g	Not Support	2TX	2RX
802.11n (HT20)	Not Support	2TX	2RX
802.11n (HT40)	Not Support	2TX	2RX
VHT20	Not Support	2TX	2RX
VHT40	Not Support	2TX	2RX
802.11ax (HE20)	Not Support	2TX	2RX
802.11ax (HE40)	Not Support	2TX	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), and 802.11ax mode for 20 MHz (40 MHz). Therefore the investigated worst case is the representative mode in test report.

3.3 Channel List

Traffic Radio:

11 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	7	2442 MHz
2	2417 MHz	8	2447 MHz
3	2422 MHz	9	2452 MHz
4	2427 MHz	10	2457 MHz
5	2432 MHz	11	2462 MHz
6	2437 MHz		

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

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

Scan Radio:

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

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

7 channels are provided for 802.11n (HT40), VHT40, 802.11ax (HE40):

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

3.4 Test Mode Applicability and Tested Channel Detail

The EUT is designed to be positioned on the Wall Mount Mode only.

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

Test Item	EUT Configure Mode	Mode	Signal Mode	Tested Channel	Modulation	Data Rate
RF Output Power	A	802.11b	CDD	1, 6, 11	DBPSK	1Mb/s
		802.11g	CDD	1, 6, 11	BPSK	6Mb/s
		802.11be (EHT20)	CDD & Beamforming	1, 6, 11	BPSK	MCS0
		802.11be (EHT40)	CDD & Beamforming	3, 6, 9	BPSK	MCS0
	B	802.11b	CDD	1, 6, 11	DBPSK	1Mb/s
		802.11g	CDD	1, 6, 11	BPSK	6Mb/s
		802.11ax (HE20)	CDD	1, 6, 11	BPSK	MCS0
		802.11ax (HE40)	CDD	3, 6, 9	BPSK	MCS0
Power Spectral Density / 6dB Bandwidth / Conducted Out of Band Emissions	A	802.11b	CDD	1, 6, 11	DBPSK	1Mb/s
		802.11g	CDD	1, 6, 11	BPSK	6Mb/s
		802.11be (EHT20)	CDD	1, 6, 11	BPSK	MCS0
		802.11be (EHT40)	CDD	3, 6, 9	BPSK	MCS0
	B	802.11b	CDD	1, 6, 11	DBPSK	1Mb/s
		802.11g	CDD	1, 6, 11	BPSK	6Mb/s
		802.11ax (HE20)	CDD	1, 6, 11	BPSK	MCS0
		802.11ax (HE40)	CDD	3, 6, 9	BPSK	MCS0
AC Power Conducted Emissions	A	802.11b	CDD	6	DBPSK	1Mb/s
	B	802.11g	CDD	6	BPSK	6Mb/s
Unwanted Emissions below 1 GHz	A	802.11b	CDD	6	DBPSK	1Mb/s
	B	802.11g	CDD	6	BPSK	6Mb/s
Unwanted Emissions above 1 GHz	A	802.11b	CDD	1, 6, 11	DBPSK	1Mb/s
		802.11g	CDD	1, 6, 11	BPSK	6Mb/s
		802.11be (EHT20)	CDD	1, 6, 11	BPSK	MCS0
		802.11be (EHT40)	CDD	3, 6, 9	BPSK	MCS0
	B	802.11b	CDD	1, 6, 11	DBPSK	1Mb/s
		802.11g	CDD	1, 6, 11	BPSK	6Mb/s
		802.11ax (HE20)	CDD	1, 6, 11	BPSK	MCS0
		802.11ax (HE40)	CDD	3, 6, 9	BPSK	MCS0
EUT Configure Mode:	A	Traffic Radio (Radio 1)				
	B	Scan Radio (Radio 4)				

3.5 Duty Cycle of Test Signal

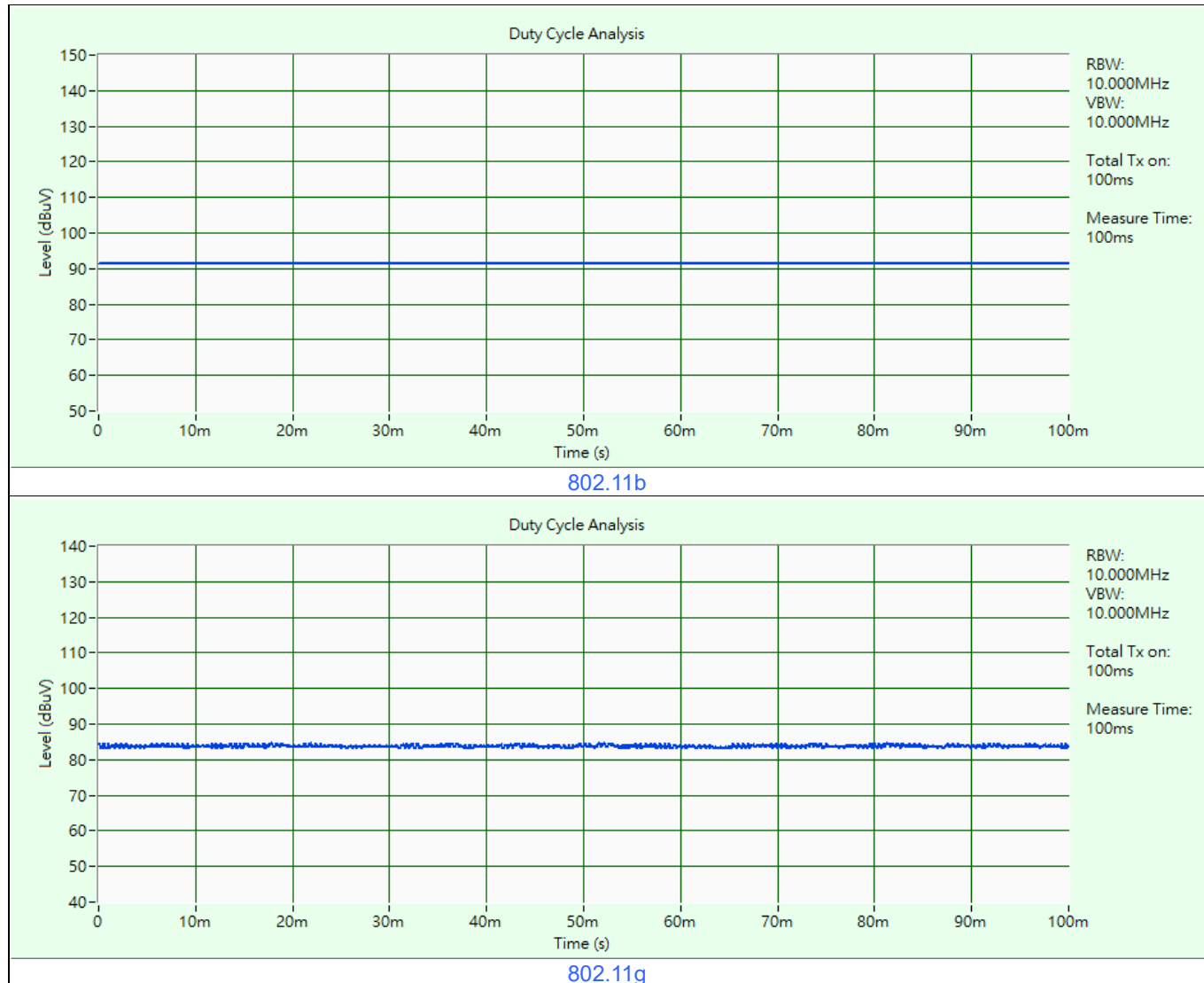
Traffic Radio (Mode A)

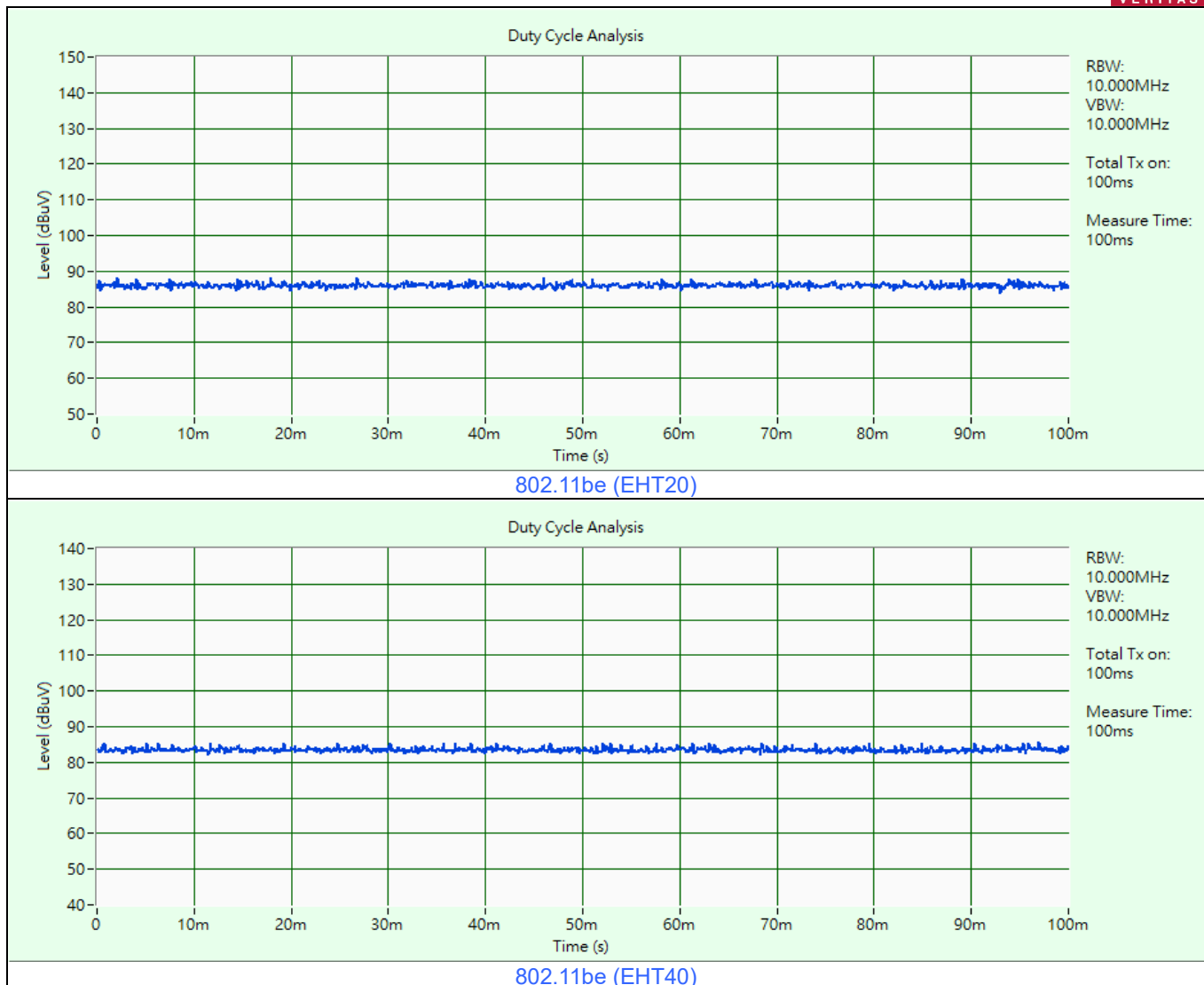
802.11b: Duty cycle = 100 ms / 100 ms x 100% = 100.0%

802.11g: Duty cycle = 100 ms / 100 ms x 100% = 100.0%

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

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





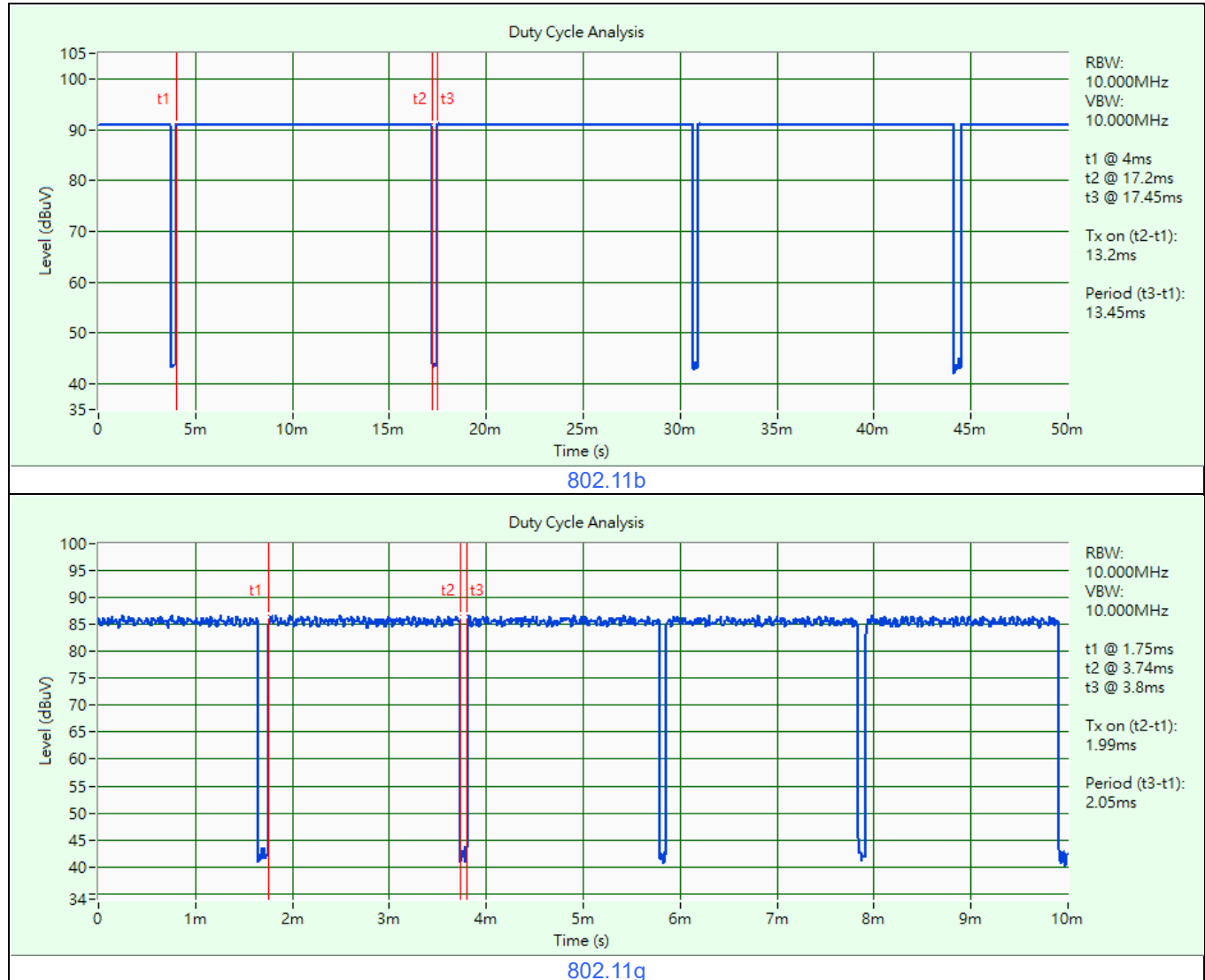
Scan Radio (Mode B)

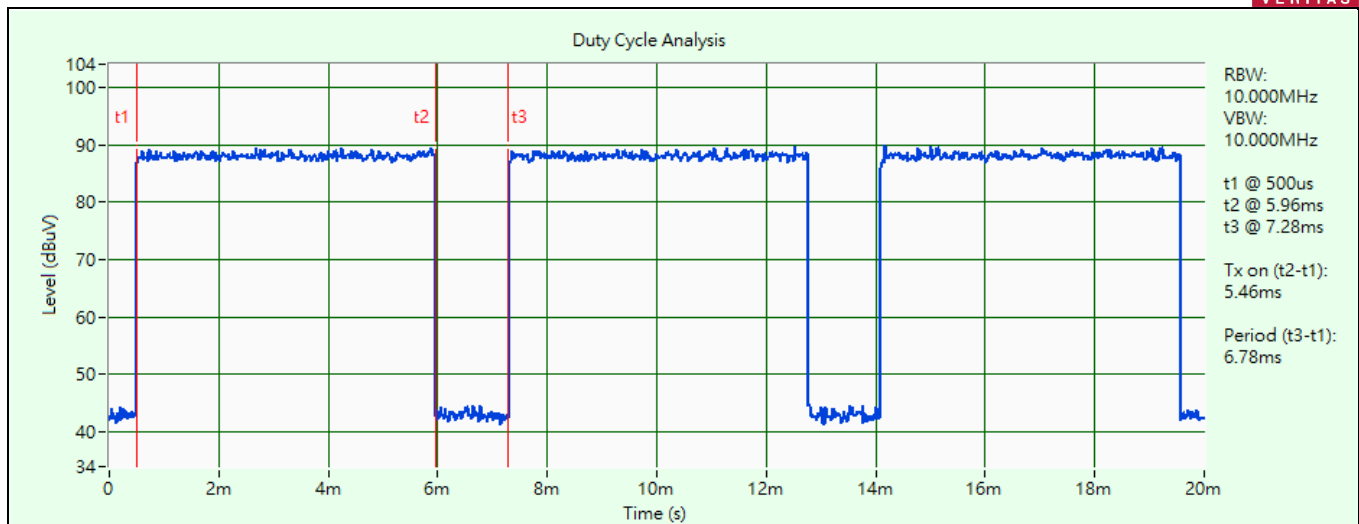
802.11b: Duty cycle = 13.2 ms / 13.45 ms x 100% = 98.1%

802.11g: Duty cycle = 1.99 ms / 2.05 ms x 100% = 97.1%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.13 \text{ dB}$

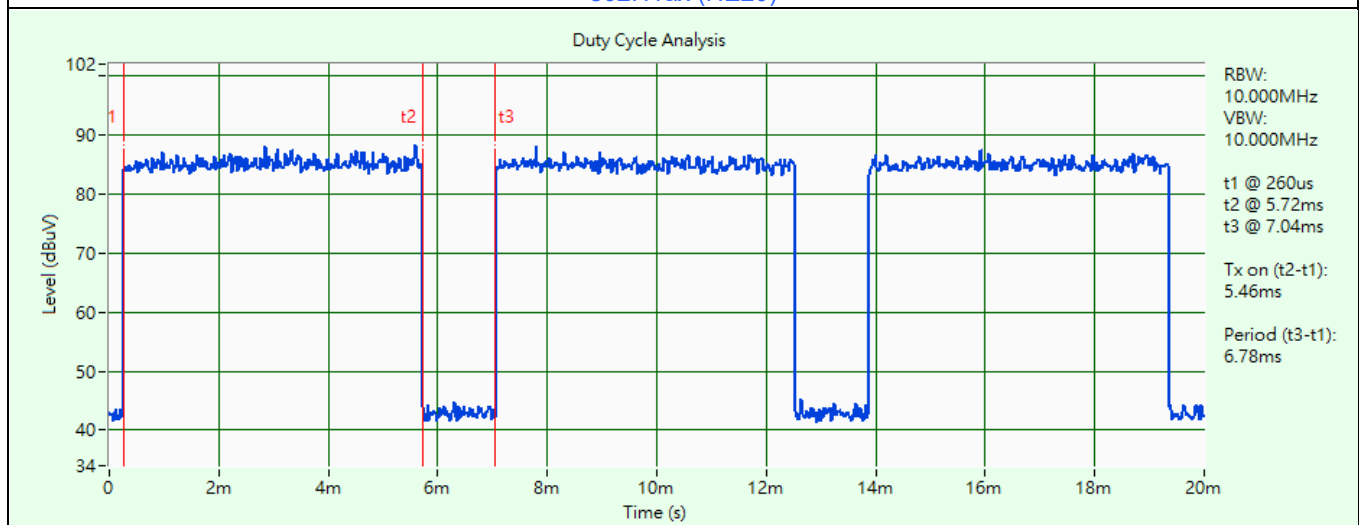
802.11ax (HE20): Duty cycle = 5.46 ms / 6.78 ms x 100% = 80.5%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.94 \text{ dB}$

802.11ax (HE40): Duty cycle = 5.46 ms / 6.78 ms x 100% = 80.5%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.94 \text{ dB}$





802.11ax (HE20)

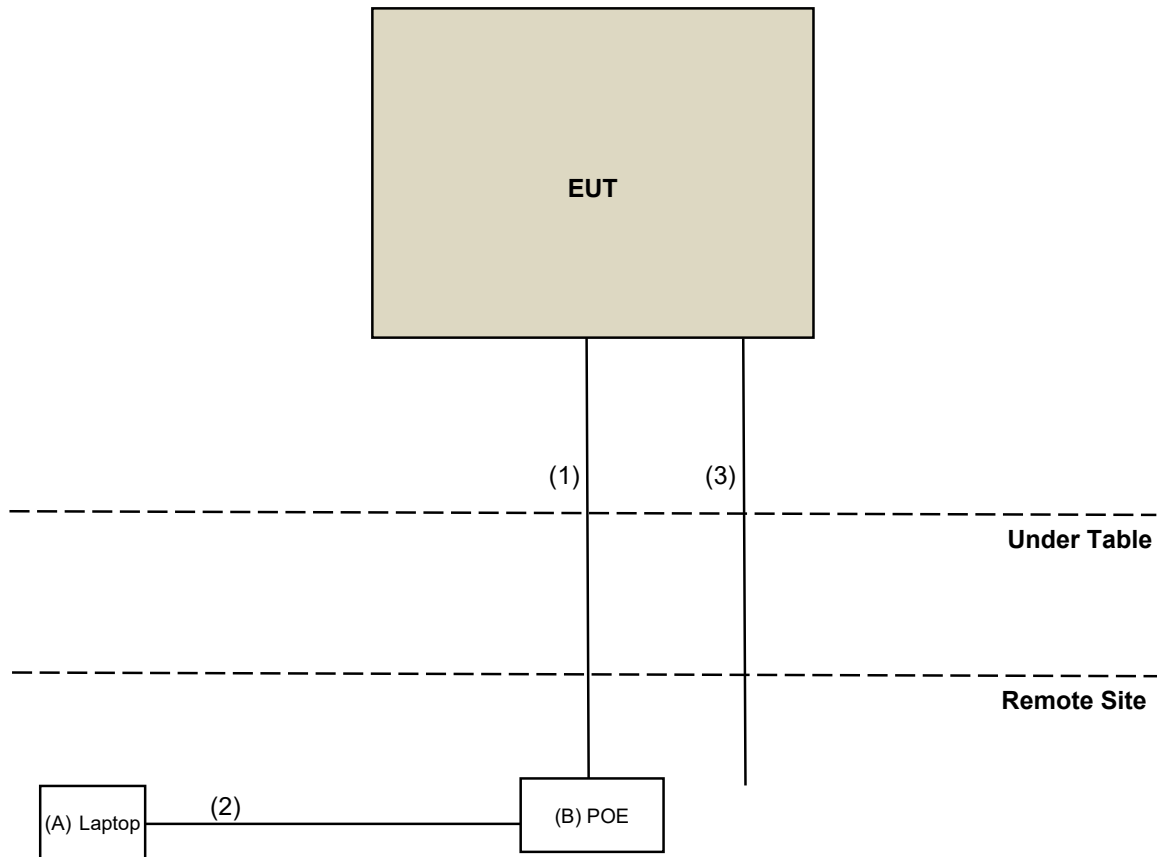


802.11ax (HE40)

3.6 Test Program Used and Operation Descriptions

Controlling software QSPR Version 6.00.00234.1 has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Laptop	Lenovo	X250	PC04UZN1	NA	Provided by Lab
B	POE	NA	NA	NA	NA	Supplied by applicant

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	LAN Cable	1	6	No	0	Provided by Lab
2	LAN Cable	1	1.5	No	0	Provided by Lab
3	GND 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	00800A1K01A-10	00800A1K01A-10-01	2026/5/21	2027/5/20
Peak Power Analyzer Keysight	8990B	MY51000485	2026/1/23	2027/1/22
USB Power Sensor Anritsu	MA24408A	12994	2025/12/5	2026/12/4
Wideband Power Sensor Keysight	N1923A	MY58020002	2026/1/26	2027/1/25
		MY58140009	2026/1/26	2027/1/25

Notes:

1. The test was performed in HY - Oven room(Hwaya).
2. Tested Date: 2026/6/2 ~ 2026/6/3

4.2 Power Spectral Density

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2026/5/21	2027/5/20
Signal & Spectrum Analyzer R&S	FSV3044	101504	2025/6/18	2026/6/17
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in HY - Oven room(Hwaya).
2. Tested Date: 2026/6/2 ~ 2026/6/3

4.3 6 dB Bandwidth

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

4.4 Conducted Out of Band Emissions

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

4.5 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance	E1-011279	04	2025/12/4	2026/12/3
	E1-011280	05	2025/12/4	2026/12/3
	E1-011311	09	2025/12/4	2026/12/3
DC LISN Schwarzbeck	NNBM 8126G	8126G-069	2025/11/3	2026/11/2
Diode Pulse Limiter Schwarzbeck	VTSD 9561 F-N	01617	2025/8/23	2026/8/22
EMI Test Receiver R&S	ESR3	102783	2025/12/15	2026/12/14
LISN R&S	ESH2-Z5	100100	2026/3/4	2027/3/3
	ESH3-Z5	100312	2025/8/29	2026/8/28
RF Coaxial Cable Woken	5D-FB	Cable-cond2-01	2025/8/23	2026/8/22
Software BVADT	BVADT_Cond_ V7.4.1.0	N/A	N/A	N/A
V-LISN Schwarzbeck	NNBL 8226-2	8226-142	2025/8/27	2026/8/26

Notes:

1. The test was performed in HY - Conduction 2.
2. Tested Date: 2026/5/20

4.6 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn BV ADT	AT100	AT93021705	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-160	2025/9/16	2026/9/15
Loop Antenna TESEQ	HLA 6121	45745	2025/9/1	2026/8/31
MXE EMI Receiver Agilent	N9038A	MY51210203	2025/8/27	2026/8/26
Preamplifier Agilent	8447D	2944A10638	2026/4/18	2027/4/17
Preamplifier EMCI	EMC001340	980201	2025/9/21	2026/9/20
RF Coaxial Cable Woken	8D-FB	Cable-CH9-01	2026/4/18	2027/4/17
Signal & Spectrum Analyzer R&S	FSW43	101582	2026/5/2	2027/5/1
Software BV ADT	ADT_Radiated_ V7.7.1.1.1	N/A	N/A	N/A
Turn Table BV ADT	TT100	TT93021705	N/A	N/A
Turn Table Controller BV ADT	SC100	SC93021705	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 4(Hwaya).
2. Tested Date: 2026/5/20

4.7 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn BV ADT	AT100	AT93021705	N/A	N/A
Boresight antenna tower fixture BV	BAF-02	5	N/A	N/A
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-1169	2025/11/9	2026/11/8
	BBHA 9170	9170-480	2025/11/9	2026/11/8
		BBHA9170243	2025/11/9	2026/11/8
MXE EMI Receiver Agilent	N9038A	MY51210203	2025/8/27	2026/8/26
Preamplifier Agilent	8449B	3008A02367	2026/1/3	2027/1/2
Preamplifier EMCI	EMC 184045	980116	2025/9/21	2026/9/20
RF Coaxial Cable EMCI	EMC102-KM-KM-600	150928	2025/6/30	2026/6/29
	EMC102-KM-KM-3000	150929	2025/6/30	2026/6/29
RF Coaxial Cable HUBER+SUHNER	SUCOFLEX 104	CABLE-CH9-(250795/4)	2026/1/3	2027/1/2
RF Coaxial Cable HUBER+SUHNER&EMCI	SUCOFLEX 104& EMC104-SM-SM8000	CABLE-CH9-02 (248780+171006)	2026/1/3	2027/1/2
Signal & Spectrum Analyzer R&S	FSW43	101582	2025/4/15 2026/5/2	2026/4/14 2027/5/1
Software BV ADT	ADT_Radiated_ V7.7.1.1.1	N/A	N/A	N/A
Turn Table BV ADT	TT100	TT93021705	N/A	N/A
Turn Table Controller BV ADT	SC100	SC93021705	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 4(Hwaya).
2. Tested Date: 2026/4/8 ~ 2026/5/20

5 Limits of Test Items

5.1 RF Output Power

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

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

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

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

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

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

5.2 Power Spectral Density

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

5.3 6 dB Bandwidth

The minimum of 6 dB Bandwidth Measurement is 0.5 MHz.

5.4 Conducted Out of Band Emissions

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

5.5 AC Power Conducted Emissions

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

Notes:

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

5.6 Unwanted Emissions below 1 GHz

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

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	$2400/F(\text{kHz})$	300
0.490 ~ 1.705	$24000/F(\text{kHz})$	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

Notes:

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

5.7 Unwanted Emissions above 1 GHz

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

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

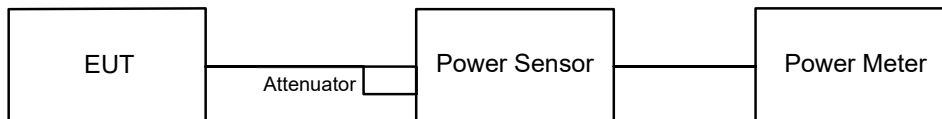
Notes:

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

6 Test Arrangements

6.1 RF Output Power

6.1.1 Test Setup



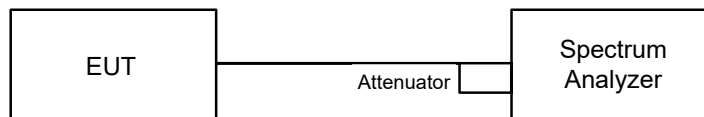
6.1.2 Test Procedure

Average Power:

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

6.2 Power Spectral Density

6.2.1 Test Setup



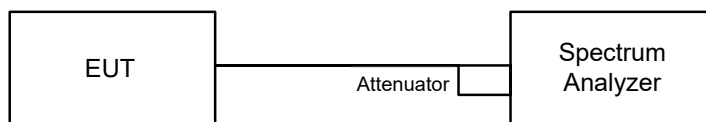
6.2.2 Test Procedure

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

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

6.3 6 dB Bandwidth

6.3.1 Test Setup

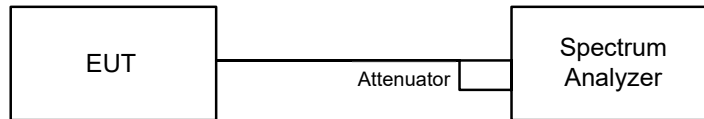


6.3.2 Test Procedure

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

6.4 Conducted Out of Band Emissions

6.4.1 Test Setup



6.4.2 Test Procedure

MEASUREMENT PROCEDURE REF

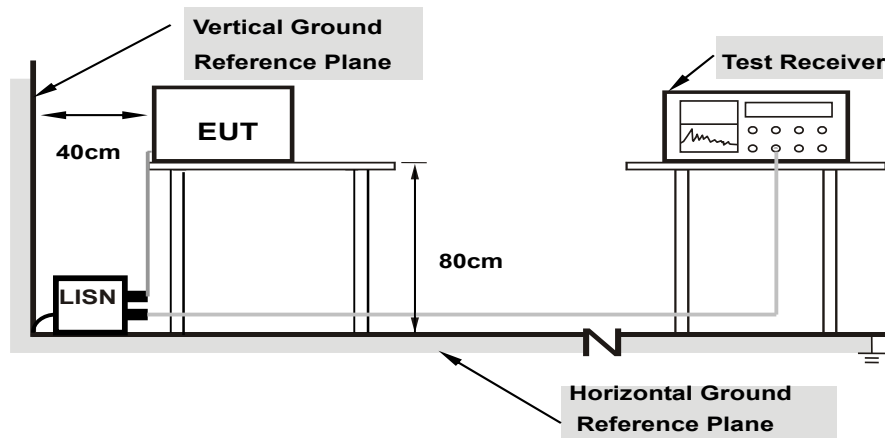
- Set instrument center frequency to DTS channel center frequency.
- Set the span to ≥ 1.5 times the DTS bandwidth.
- Set the RBW = 100 kHz.
- Set the VBW ≥ 300 kHz.
- Detector = peak.
- Sweep time = No faster than coupled (auto) time.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use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

MEASUREMENT PROCEDURE OOB

- Set the center frequency and span to encompass frequency range to be measured. Note that the frequency range might need to be divided into multiple frequency ranges to retain frequency resolution.
- Set RBW = 100 kHz.
- Set VBW ≥ 300 kHz.
- Detector = peak.
- Sweep = No faster than coupled (auto) time.
- Trace Mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level.

6.5 AC Power Conducted Emissions

6.5.1 Test Setup



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

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

6.5.2 Test Procedure

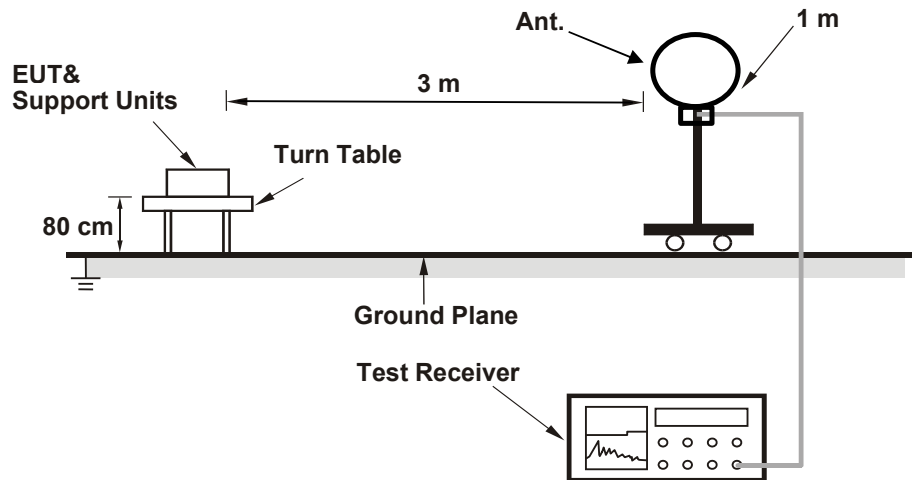
- Exploratory ac power-line conducted emission measurements: The EUT shall be operated on the mid channel and in the mode with highest output power unless the fundamental operates in the AC power-line emission test range then the EUT shall be operated in the range of typical modes of operation.
- The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

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

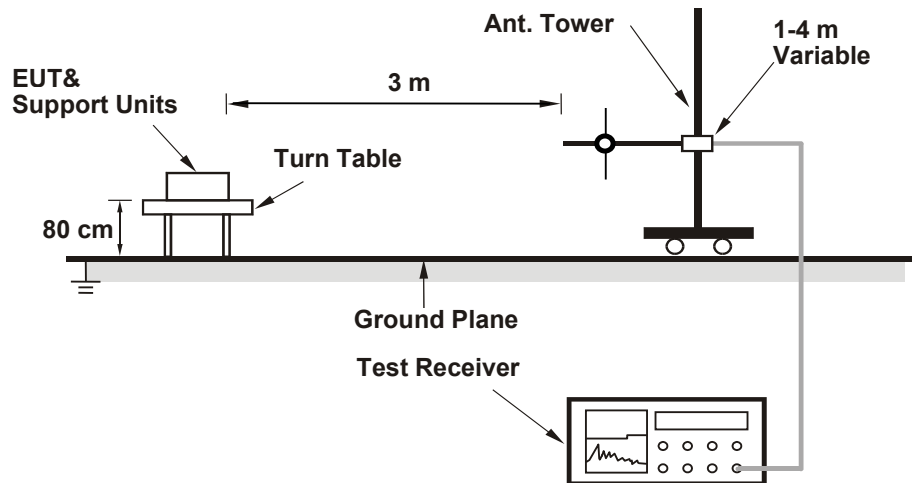
6.6 Unwanted Emissions below 1 GHz

6.6.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



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

6.6.2 Test Procedure

For Radiated emission below 30 MHz

- 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.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- 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.
- The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode (however, peak detector measurements may be used to determine compliance with QP requirements), except for the frequency band (9 kHz to 90 kHz and 110 kHz to 490 kHz) set to average detect function and peak detect function.

Notes:

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

For Radiated emission above 30 MHz

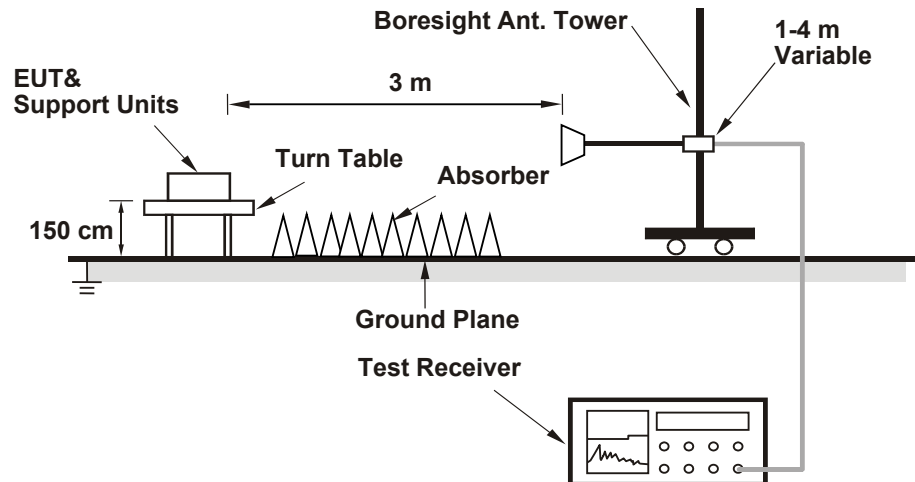
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top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

Notes:

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

6.7 Unwanted Emissions above 1 GHz

6.7.1 Test Setup



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

6.7.2 Test Procedure

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

Notes:

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

7 Test Results of Test Item

7.1 RF Output Power

Environmental Conditions:	25°C, 60% RH	Tested By:	Gary Lin
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Traffic Radio (Mode A)

802.11b

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	23.56	24.48	507.53	27.05	27.35	Pass
6	2437	23.83	24.65	533.289	27.27	27.35	Pass
11	2462	23.58	24.35	500.304	26.99	27.35	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 8.65 dBi > 6 dBi, so the output power limit shall be reduced to $30-(8.65-6) = 27.35$ dBm.

802.11g

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	21.04	21.98	284.819	24.55	27.35	Pass
6	2437	23.02	23.82	441.438	26.45	27.35	Pass
11	2462	17.85	18.36	129.503	21.12	27.35	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 8.65 dBi > 6 dBi, so the output power limit shall be reduced to $30-(8.65-6) = 27.35$ dBm.

802.11be (EHT20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	20.23	20.97	230.465	23.63	27.35	Pass
6	2437	22.19	22.83	357.444	25.53	27.35	Pass
11	2462	18.92	19.86	174.811	22.43	27.35	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 8.65 dBi > 6 dBi, so the output power limit shall be reduced to $30-(8.65-6) = 27.35$ dBm.

802.11be (EHT40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
3	2422	17.64	18.57	130.021	21.14	27.35	Pass
6	2437	17.38	18.82	130.909	21.17	27.35	Pass
9	2452	13.62	14.36	50.304	17.02	27.35	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 8.65 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (8.65 - 6) = 27.35$ dBm.

802.11be (EHT20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	20.23	20.97	230.465	23.63	25.12	Pass
6	2437	21.73	22.37	321.52	25.07	25.12	Pass
11	2462	18.92	19.86	174.811	22.43	25.12	Pass

Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. The directional gain is 10.88 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (10.88 - 6) = 25.12$ dBm.

802.11be (EHT40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
3	2422	17.64	18.57	130.021	21.14	25.12	Pass
6	2437	17.38	18.82	130.909	21.17	25.12	Pass
9	2452	13.62	14.36	50.304	17.02	25.12	Pass

Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. The directional gain is 10.88 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (10.88 - 6) = 25.12$ dBm.

Scan Radio (Mode B)

802.11b

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	21.73	21.60	293.48	24.68	29.12	Pass
6	2437	21.84	21.80	304.113	24.83	29.12	Pass
11	2462	21.32	21.17	266.437	24.26	29.12	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 6.88 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (6.88 - 6) = 29.12$ dBm.

802.11g

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	18.08	17.90	125.928	21.00	29.12	Pass
6	2437	22.35	22.30	341.615	25.34	29.12	Pass
11	2462	17.74	17.62	117.239	20.69	29.12	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 6.88 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (6.88 - 6) = 29.12$ dBm.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	17.44	17.32	109.414	20.39	29.12	Pass
6	2437	21.58	21.55	286.769	24.58	29.12	Pass
11	2462	16.55	16.42	89.039	19.50	29.12	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 6.88 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (6.88 - 6) = 29.12$ dBm.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
3	2422	17.05	16.97	100.473	20.02	29.12	Pass
6	2437	17.22	17.19	105.083	20.22	29.12	Pass
9	2452	17.21	17.09	103.77	20.16	29.12	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 6.88 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (6.88 - 6) = 29.12$ dBm.

7.2 Power Spectral Density

Environmental Conditions:	25°C, 60% RH	Tested By:	Gary Lin
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Traffic Radio (Mode A)

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	-4.68	-3.77	-1.19	3.12	Pass
6	2437	-4.34	-3.40	-0.83	3.12	Pass
11	2462	-4.35	-4.13	-1.23	3.12	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 is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. The directional gain is 10.88 dBi > 6 dBi, so the power density limit shall be reduced to $8 - (10.88 - 6) = 3.12$ 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	-11.60	-10.90	-8.23	3.12	Pass
6	2437	-9.87	-9.44	-6.64	3.12	Pass
11	2462	-15.62	-15.27	-12.43	3.12	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 is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. The directional gain is 10.88 dBi > 6 dBi, so the power density limit shall be reduced to $8 - (10.88 - 6) = 3.12$ 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	-14.84	-14.49	-11.65	3.12	Pass
6	2437	-13.56	-12.56	-10.02	3.12	Pass
11	2462	-16.80	-15.44	-13.06	3.12	Pass

Notes:

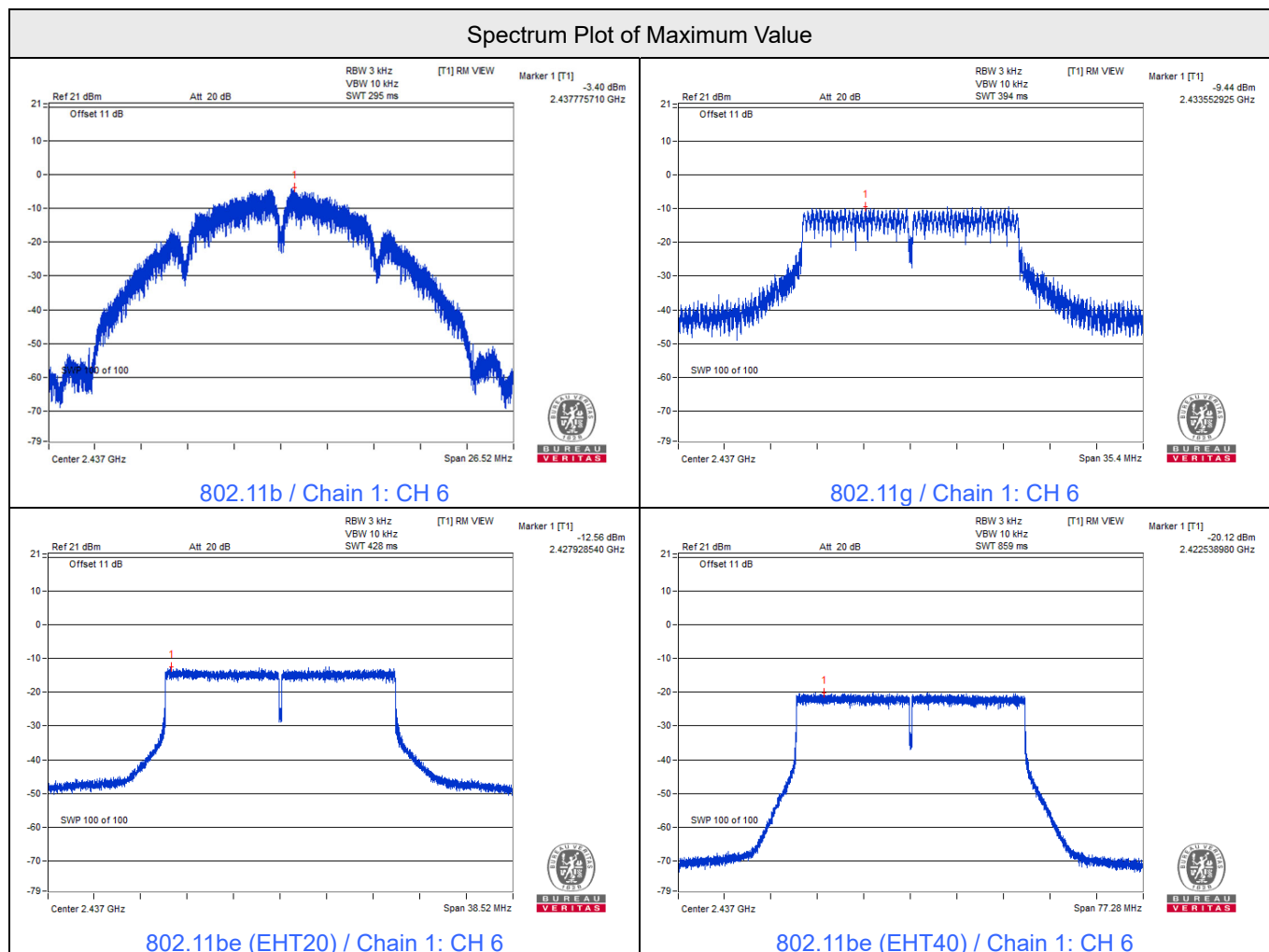
1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. The directional gain is 10.88 dBi > 6 dBi, so the power density limit shall be reduced to $8 - (10.88 - 6) = 3.12$ 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	-21.04	-20.36	-17.68	3.12	Pass
6	2437	-21.20	-20.12	-17.62	3.12	Pass
9	2452	-24.61	-23.84	-21.20	3.12	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 is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. The directional gain is 10.88 dBi > 6 dBi, so the power density limit shall be reduced to $8 - (10.88 - 6) = 3.12$ dBm/3kHz.



Scan Radio (Mode B)

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	-8.63	-8.39	-5.50	5.33	Pass
6	2437	-8.26	-8.36	-5.30	5.33	Pass
11	2462	-8.46	-9.07	-5.74	5.33	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 is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. The directional gain is 8.67 dBi > 6 dBi, so the power density limit shall be reduced to $8 - (8.67 - 6) = 5.33$ dBm/3kHz.

802.11g

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/3kHz)		Duty Factor (dB)	Conducted PSD (dBm/3kHz)	Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1					
1	2412	-15.36	-14.74	0.13	-12.03	-11.90	5.33	Pass
6	2437	-11.46	-10.85	0.13	-8.13	-8.00	5.33	Pass
11	2462	-15.45	-15.34	0.13	-12.38	-12.25	5.33	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 is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. The directional gain is 8.67 dBi > 6 dBi, so the power density limit shall be reduced to $8 - (8.67 - 6) = 5.33$ dBm/3kHz.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/3kHz)		Duty Factor (dB)	Conducted PSD (dBm/3kHz)	Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1					
1	2412	-17.98	-16.98	0.94	-14.44	-13.50	5.33	Pass
6	2437	-13.56	-13.36	0.94	-10.45	-9.51	5.33	Pass
11	2462	-18.35	-18.64	0.94	-15.48	-14.54	5.33	Pass

Notes:

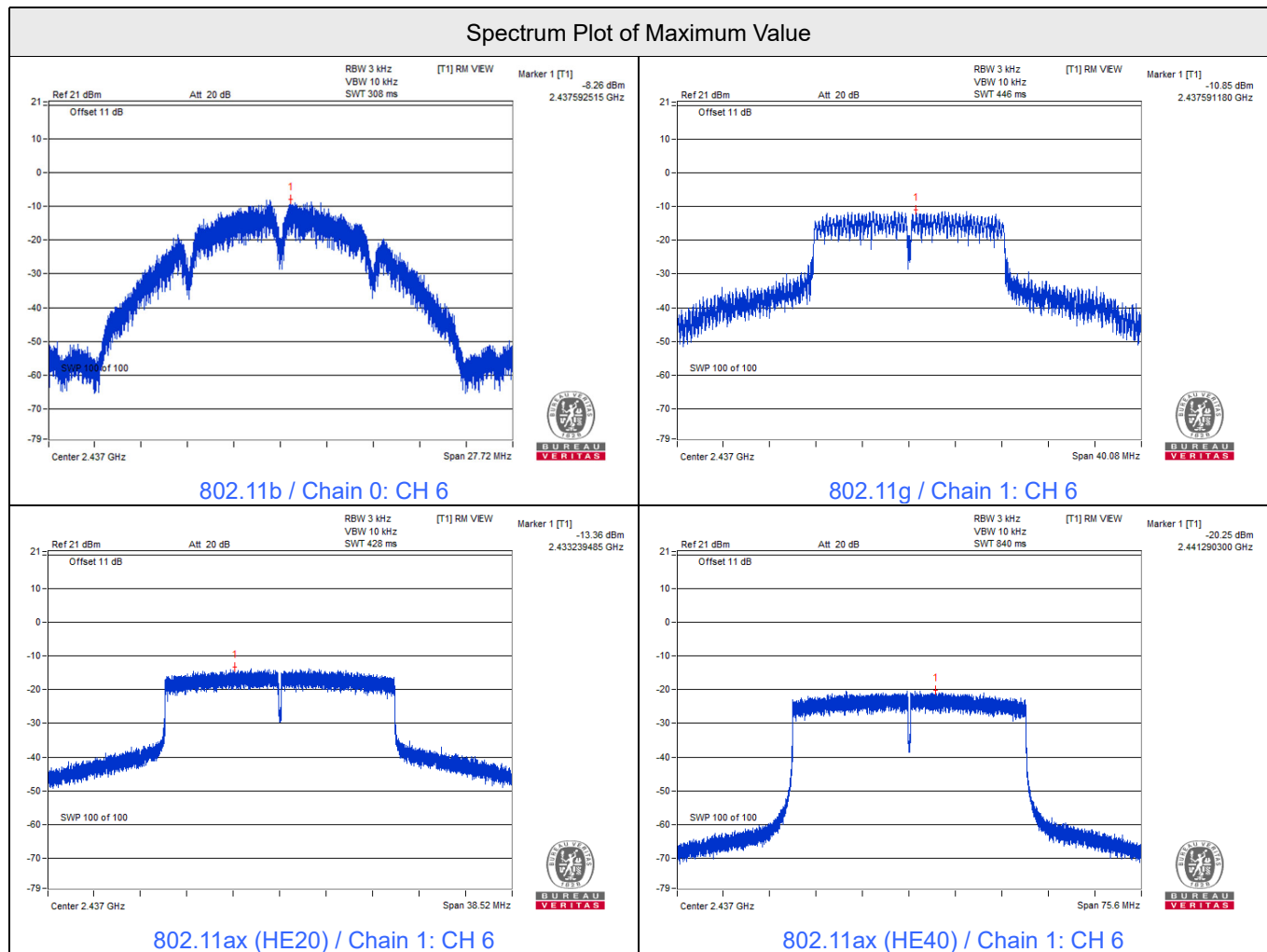
1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. The directional gain is 8.67 dBi > 6 dBi, so the power density limit shall be reduced to $8 - (8.67 - 6) = 5.33$ dBm/3kHz.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/3kHz)		Duty Factor (dB)	Conducted PSD (dBm/3kHz)	Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1					
3	2422	-20.40	-20.74	0.94	-17.56	-16.62	5.33	Pass
6	2437	-20.49	-20.25	0.94	-17.36	-16.42	5.33	Pass
9	2452	-20.35	-20.61	0.94	-17.47	-16.53	5.33	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 is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. The directional gain is 8.67 dBi > 6 dBi, so the power density limit shall be reduced to $8 - (8.67 - 6) = 5.33$ dBm/3kHz.



7.3 6 dB Bandwidth

Environmental Conditions:	25°C, 60% RH	Tested By:	Gary Lin
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Traffic Radio (Mode A)

802.11b

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	8.21	8.22	0.5	Pass
6	2437	8.20	8.22	0.5	Pass
11	2462	8.22	8.22	0.5	Pass

802.11g

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	16.57	16.62	0.5	Pass
6	2437	16.58	16.67	0.5	Pass
11	2462	16.52	16.66	0.5	Pass

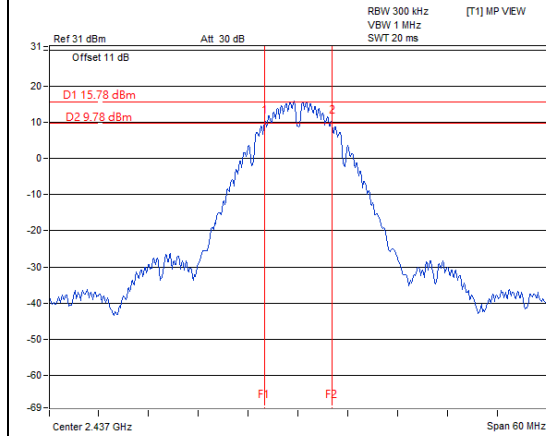
802.11be (EHT20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	19.18	19.16	0.5	Pass
6	2437	19.28	19.15	0.5	Pass
11	2462	19.15	19.19	0.5	Pass

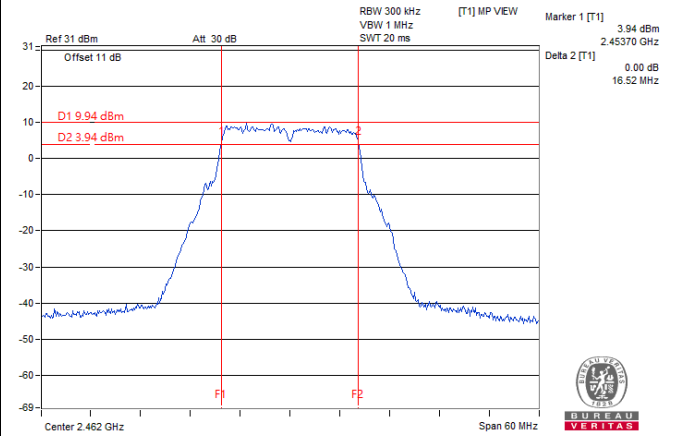
802.11be (EHT40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
3	2422	38.44	38.34	0.5	Pass
6	2437	38.53	38.53	0.5	Pass
9	2452	38.25	38.33	0.5	Pass

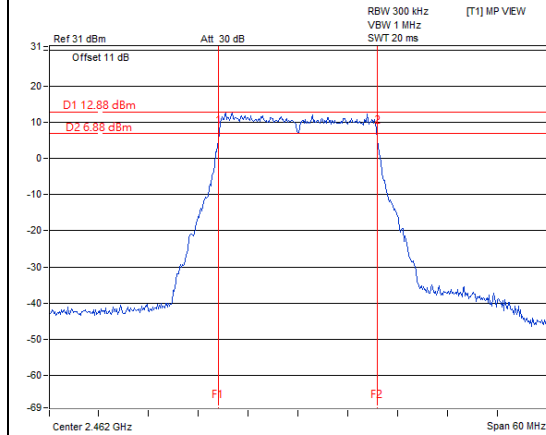
Spectrum Plot of Minimum Value



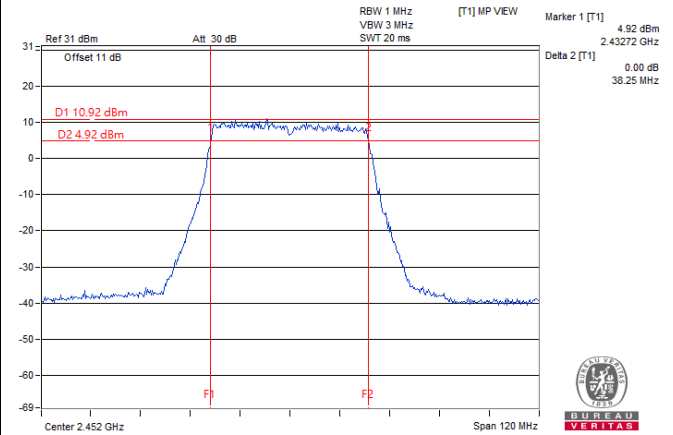
802.11b / Chain 0: CH 6



802.11g / Chain 0: CH 11



802.11be (EHT20) / Chain 0: CH 11



802.11be (EHT40) / Chain 0: CH 9

Scan Radio (Mode B)

802.11b

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	9.10	8.70	0.5	Pass
6	2437	9.13	9.12	0.5	Pass
11	2462	8.22	8.26	0.5	Pass

802.11g

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	16.40	16.44	0.5	Pass
6	2437	16.39	16.49	0.5	Pass
11	2462	16.34	16.45	0.5	Pass

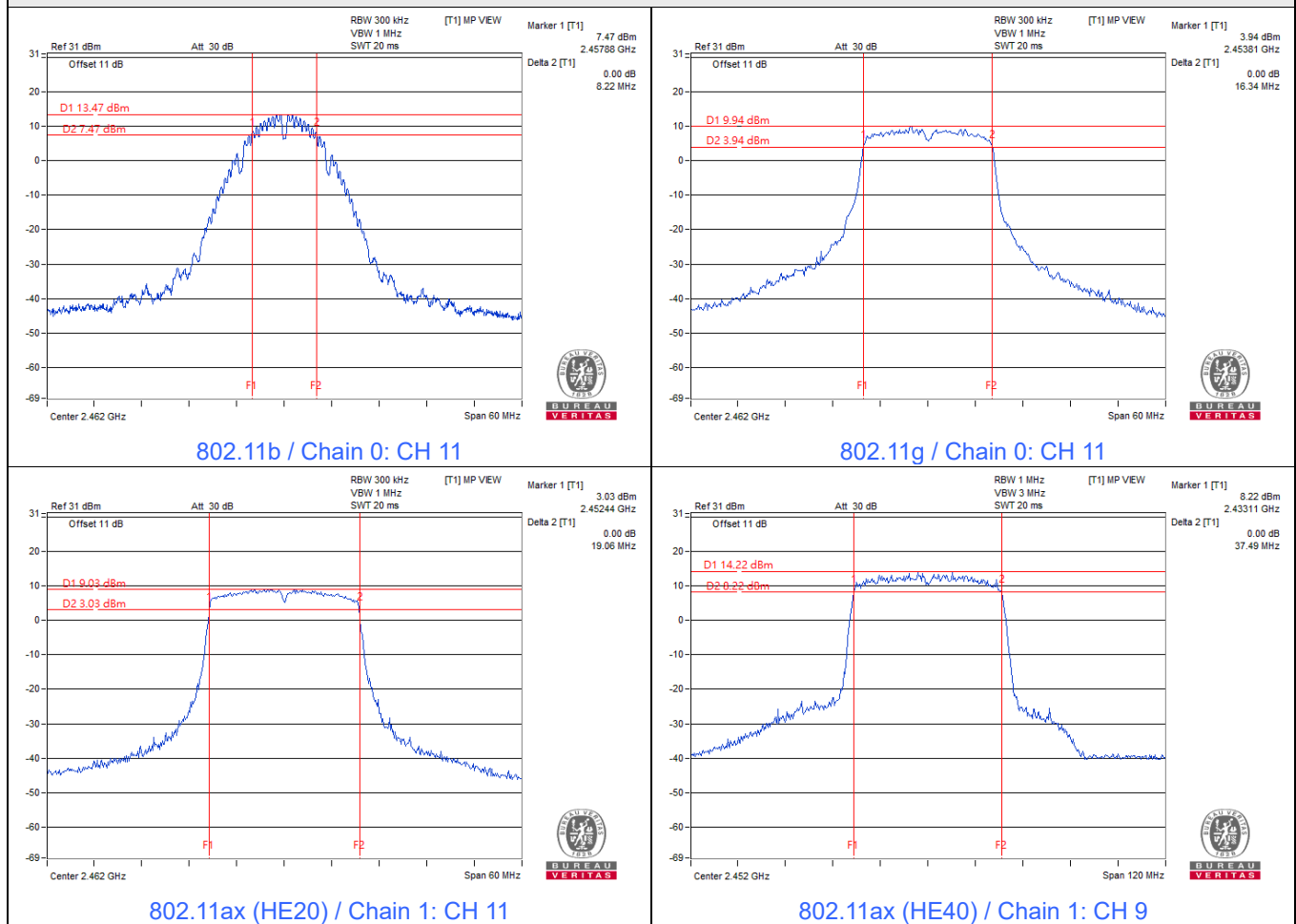
802.11ax (HE20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	19.15	19.09	0.5	Pass
6	2437	19.11	19.19	0.5	Pass
11	2462	19.08	19.06	0.5	Pass

802.11ax (HE40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
3	2422	37.74	37.74	0.5	Pass
6	2437	37.75	37.88	0.5	Pass
9	2452	37.83	37.49	0.5	Pass

Spectrum Plot of Minimum Value

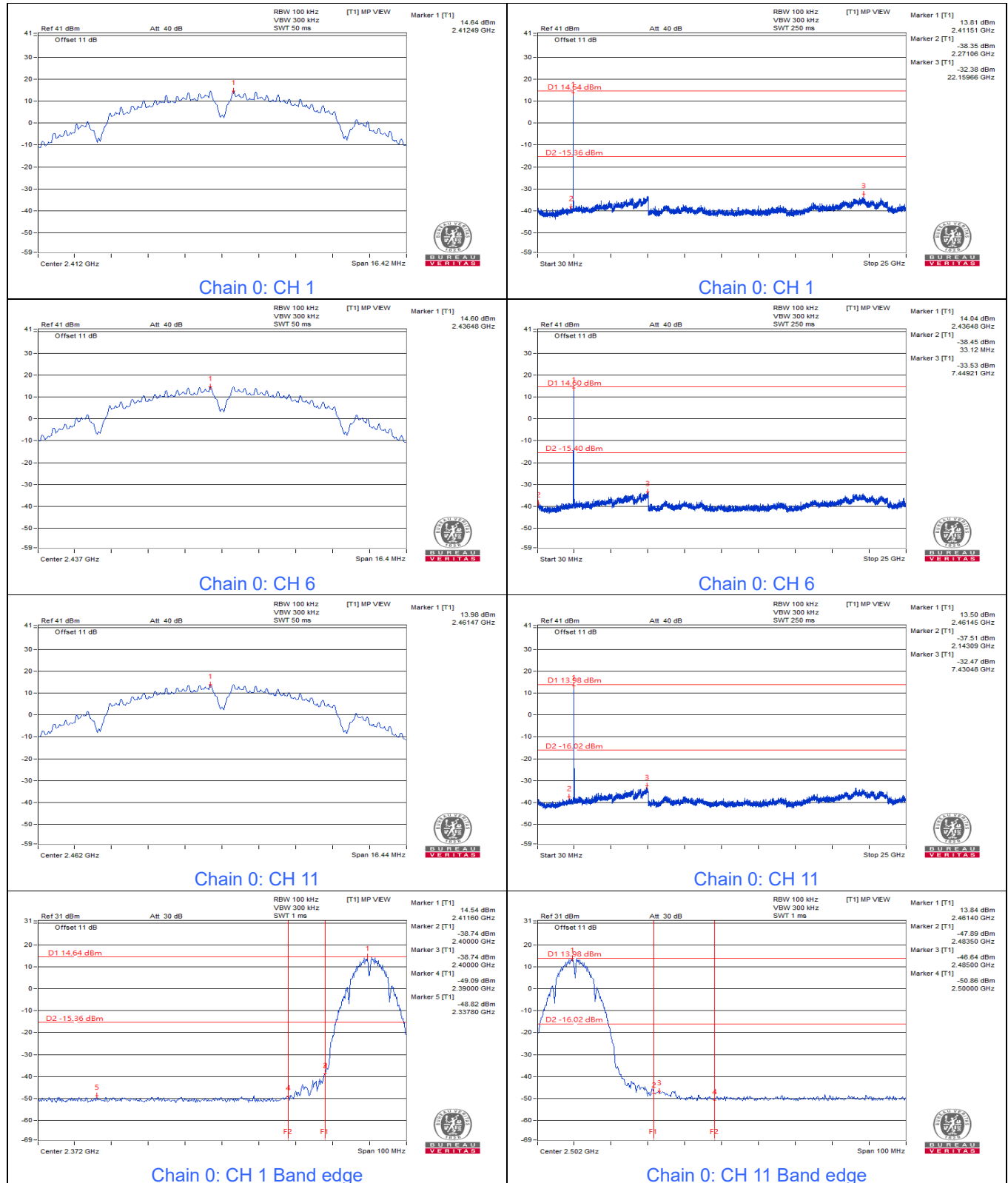


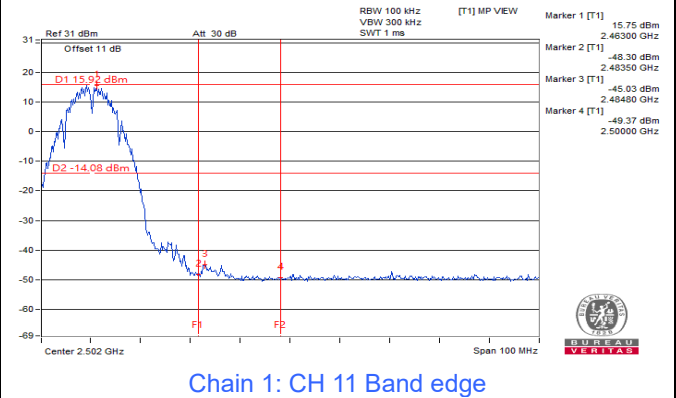
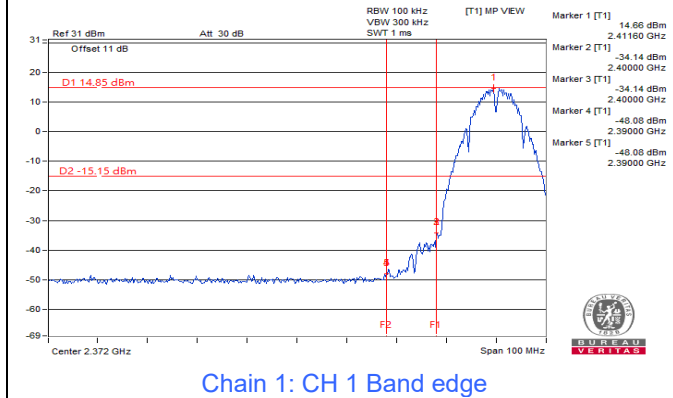
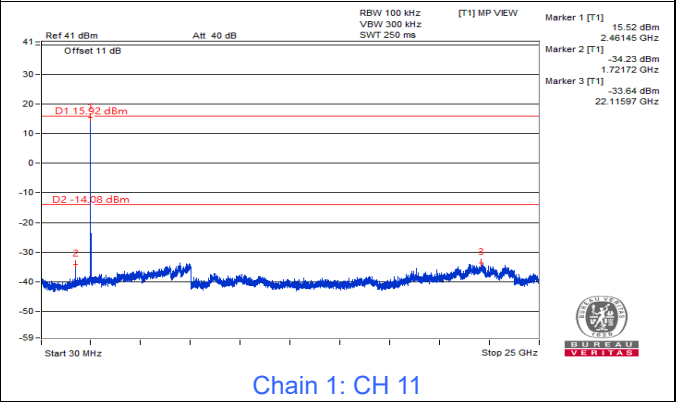
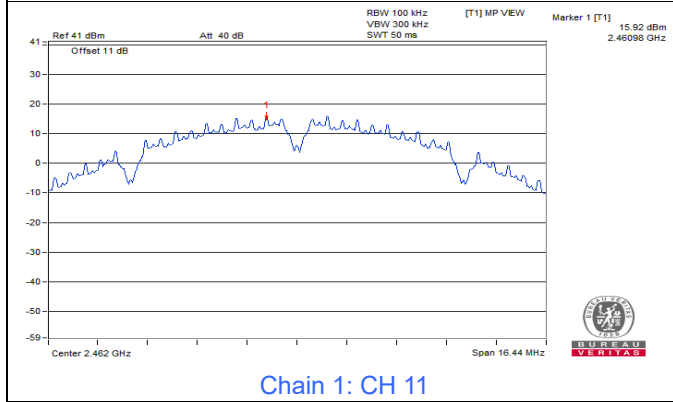
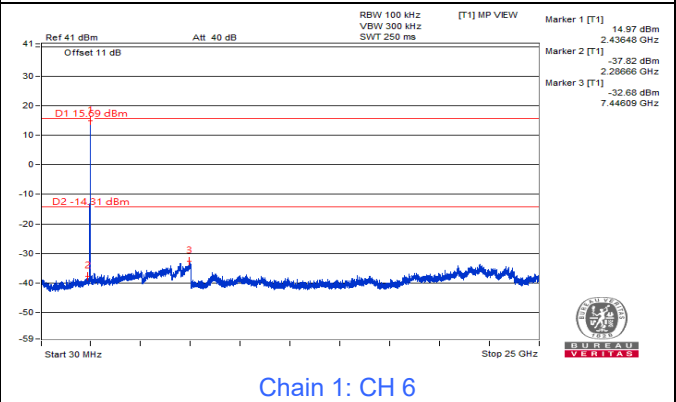
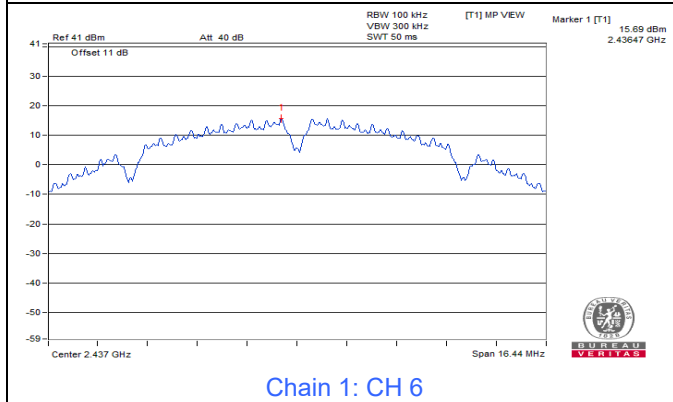
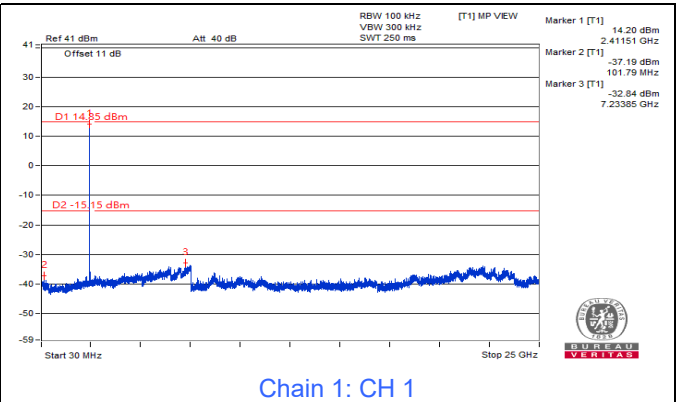
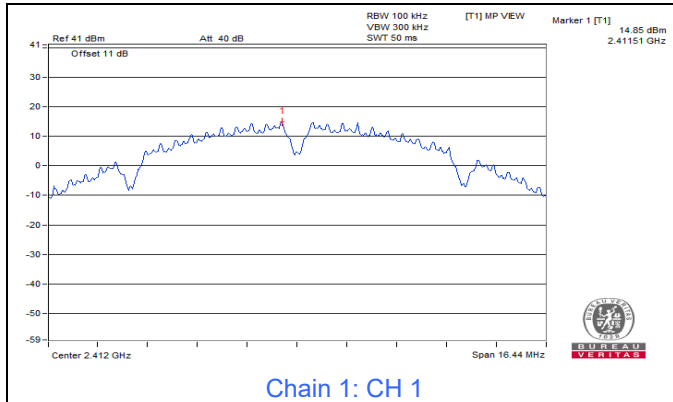
7.4 Conducted Out of Band Emissions

Environmental Conditions:	25°C, 60% RH	Tested By:	Gary Lin
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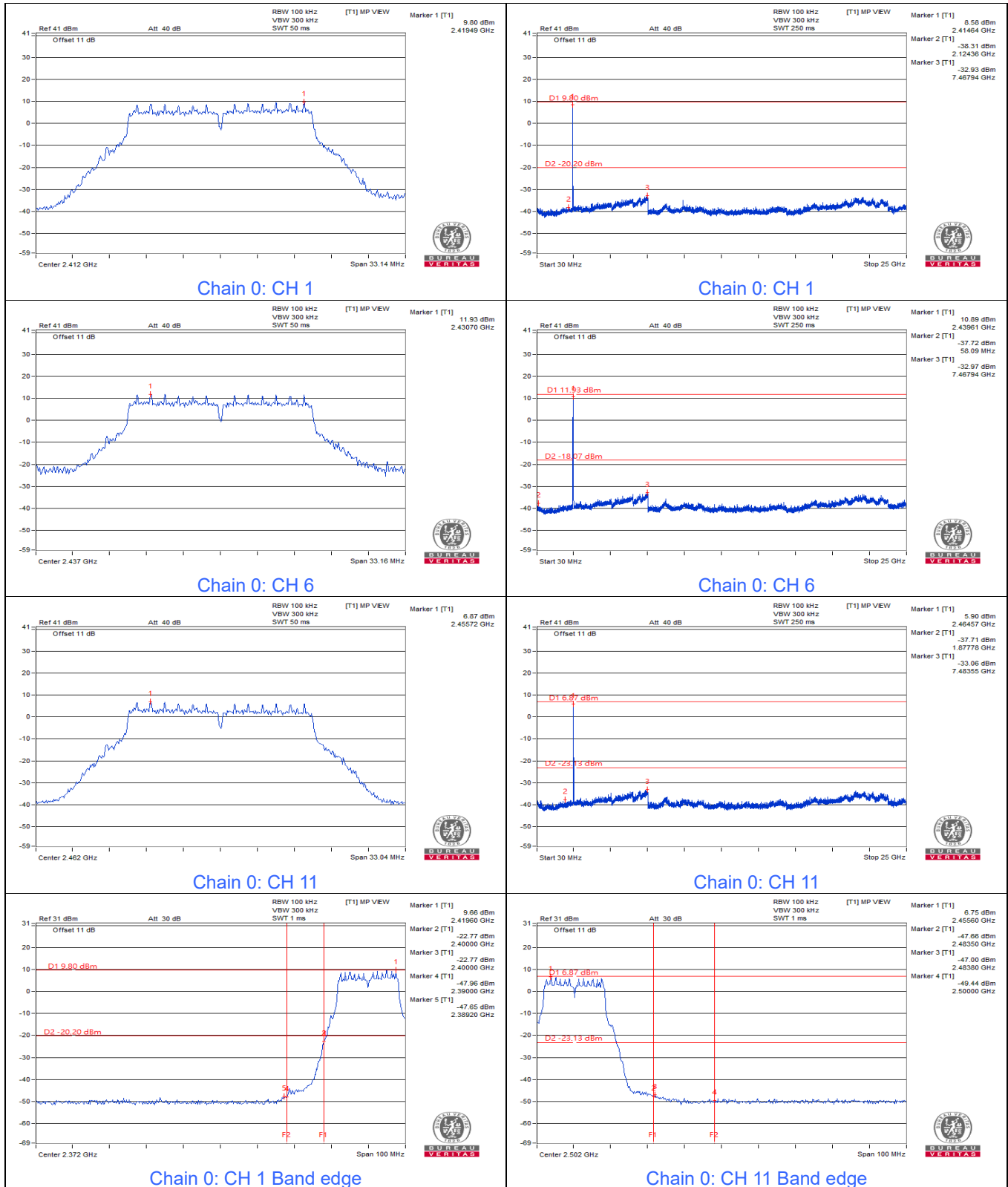
Traffic Radio (Mode A)

802.11b



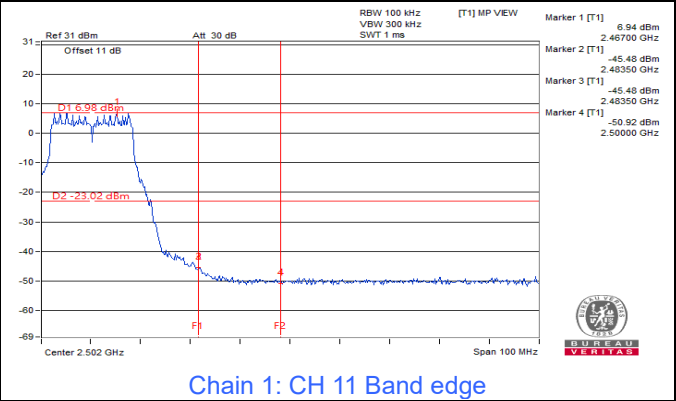
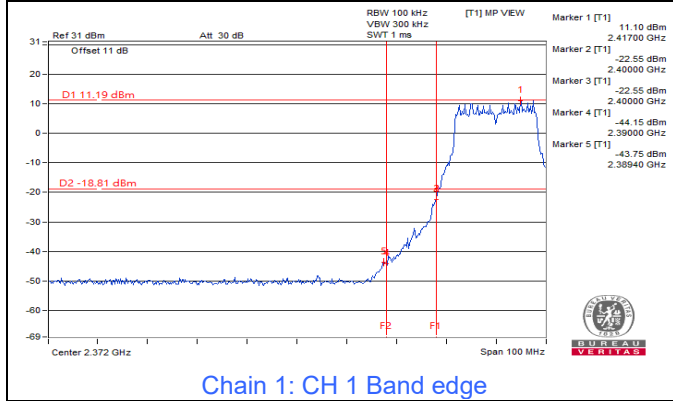
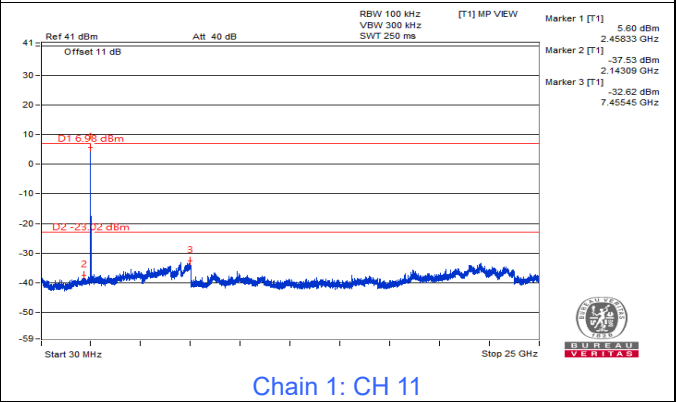
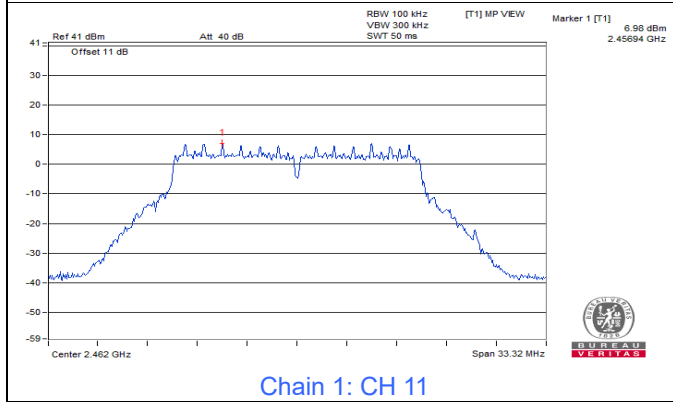
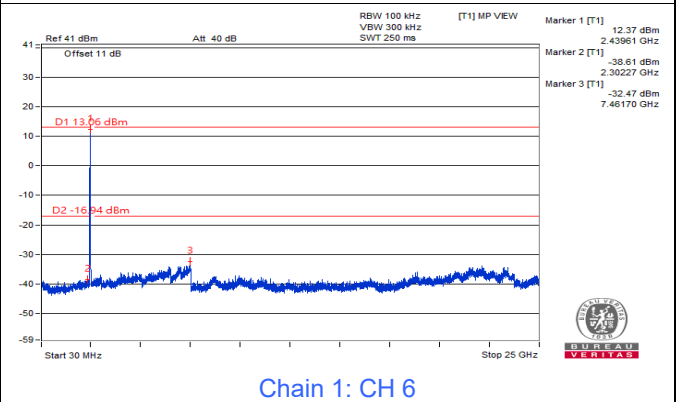
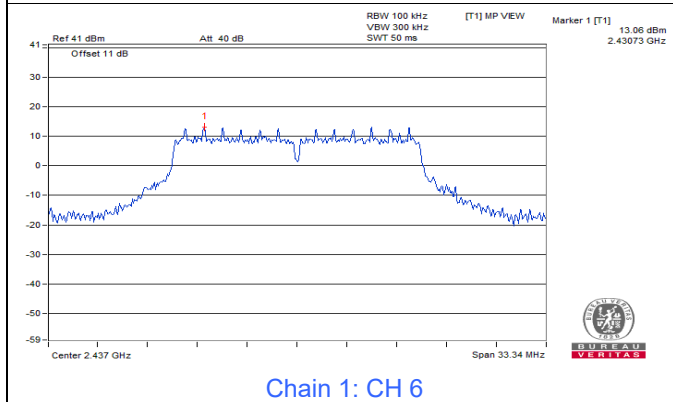
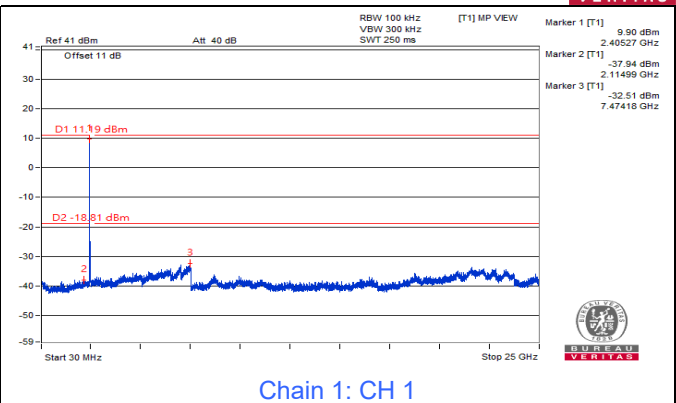
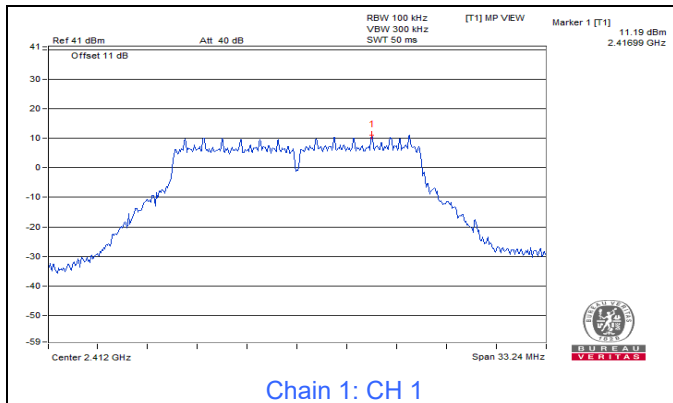


802.11g

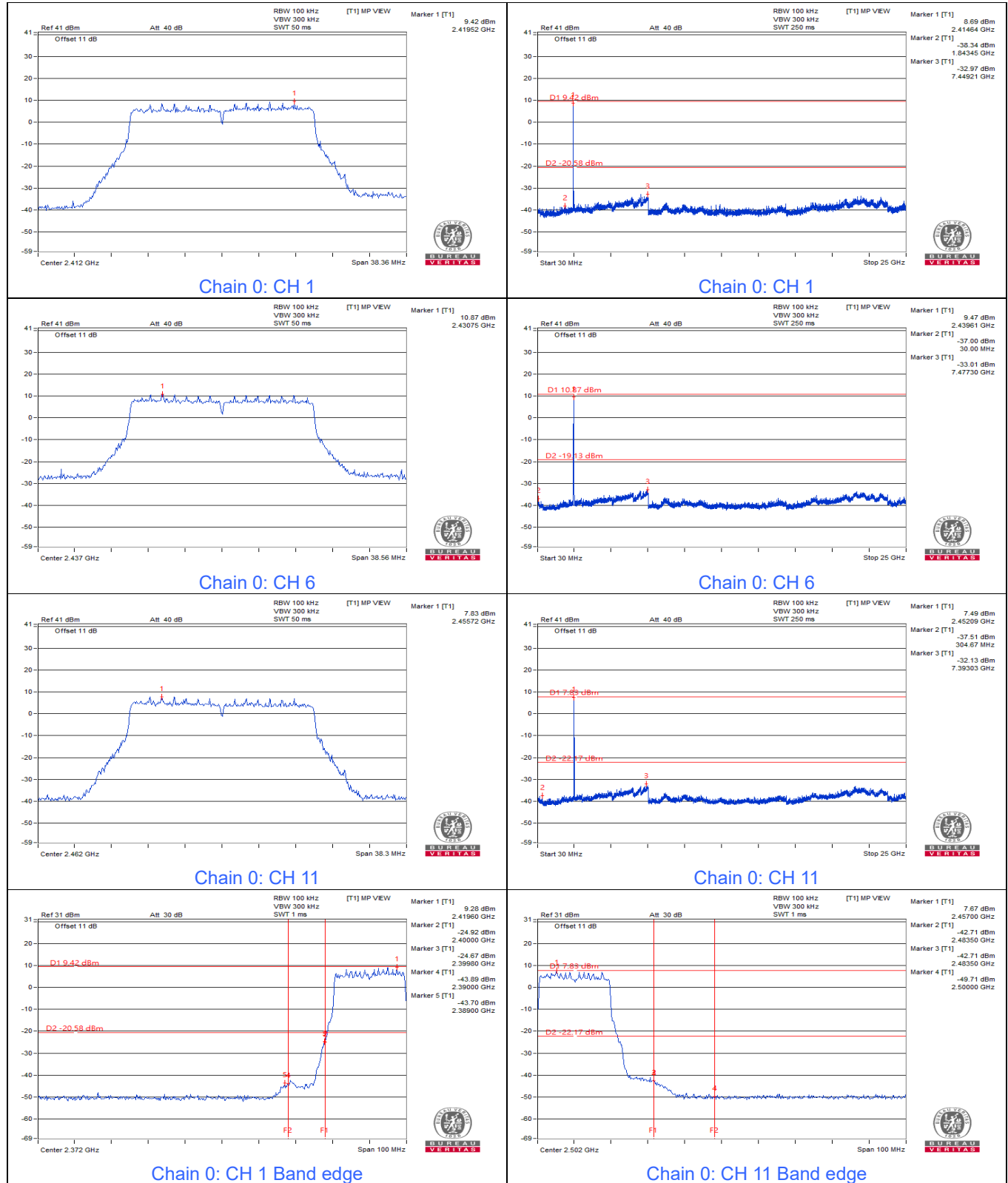


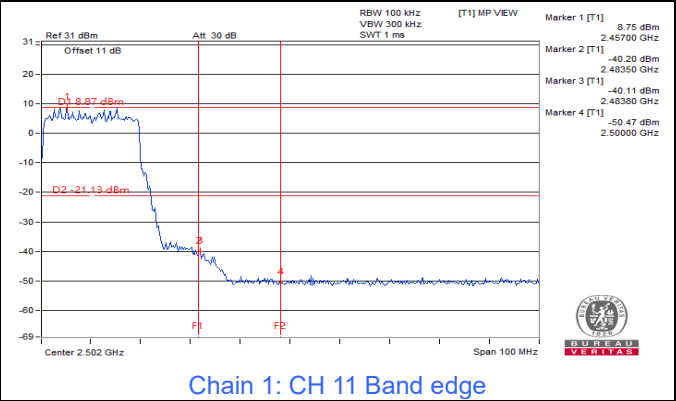
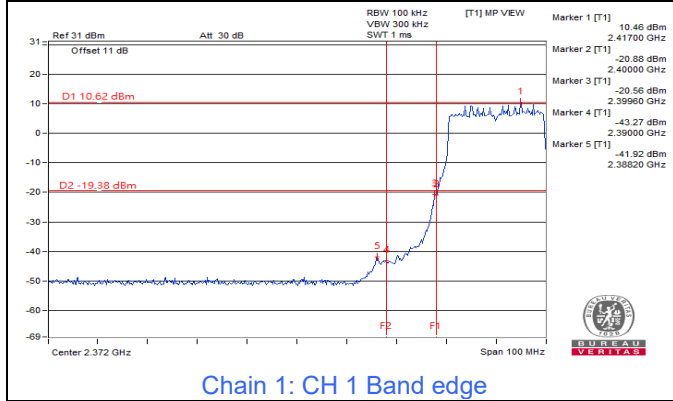
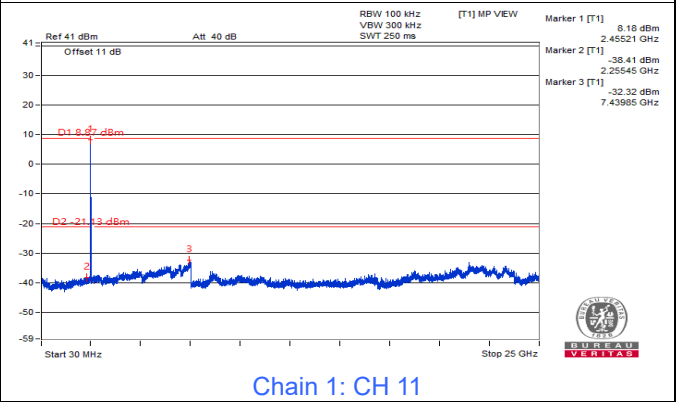
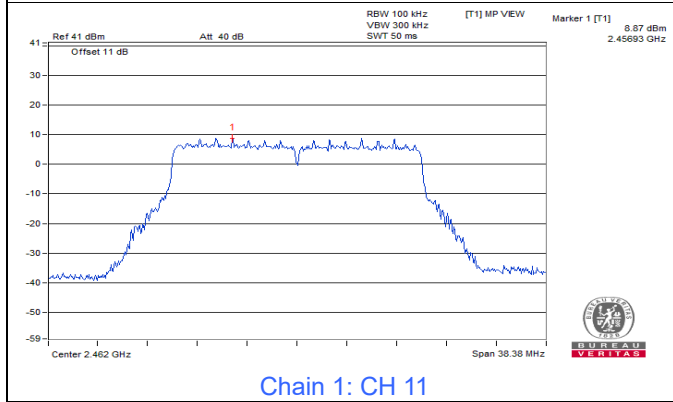
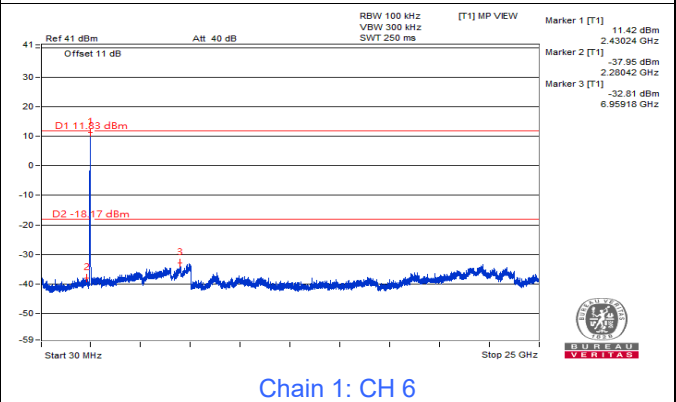
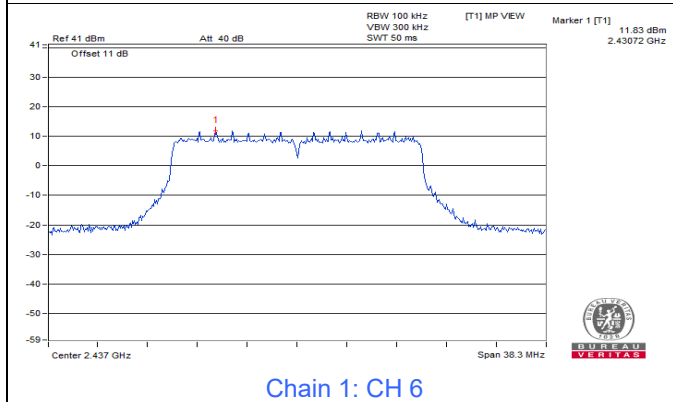
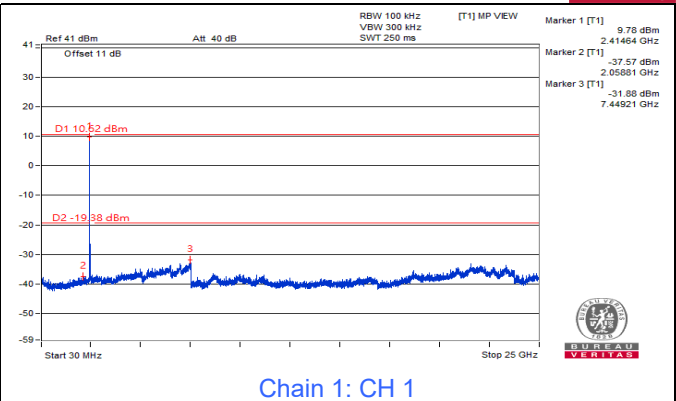
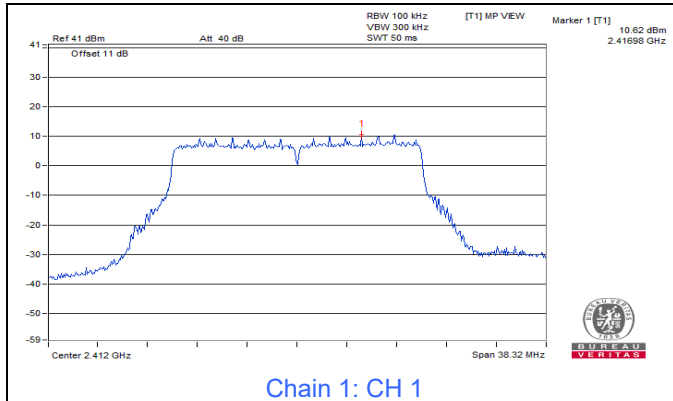


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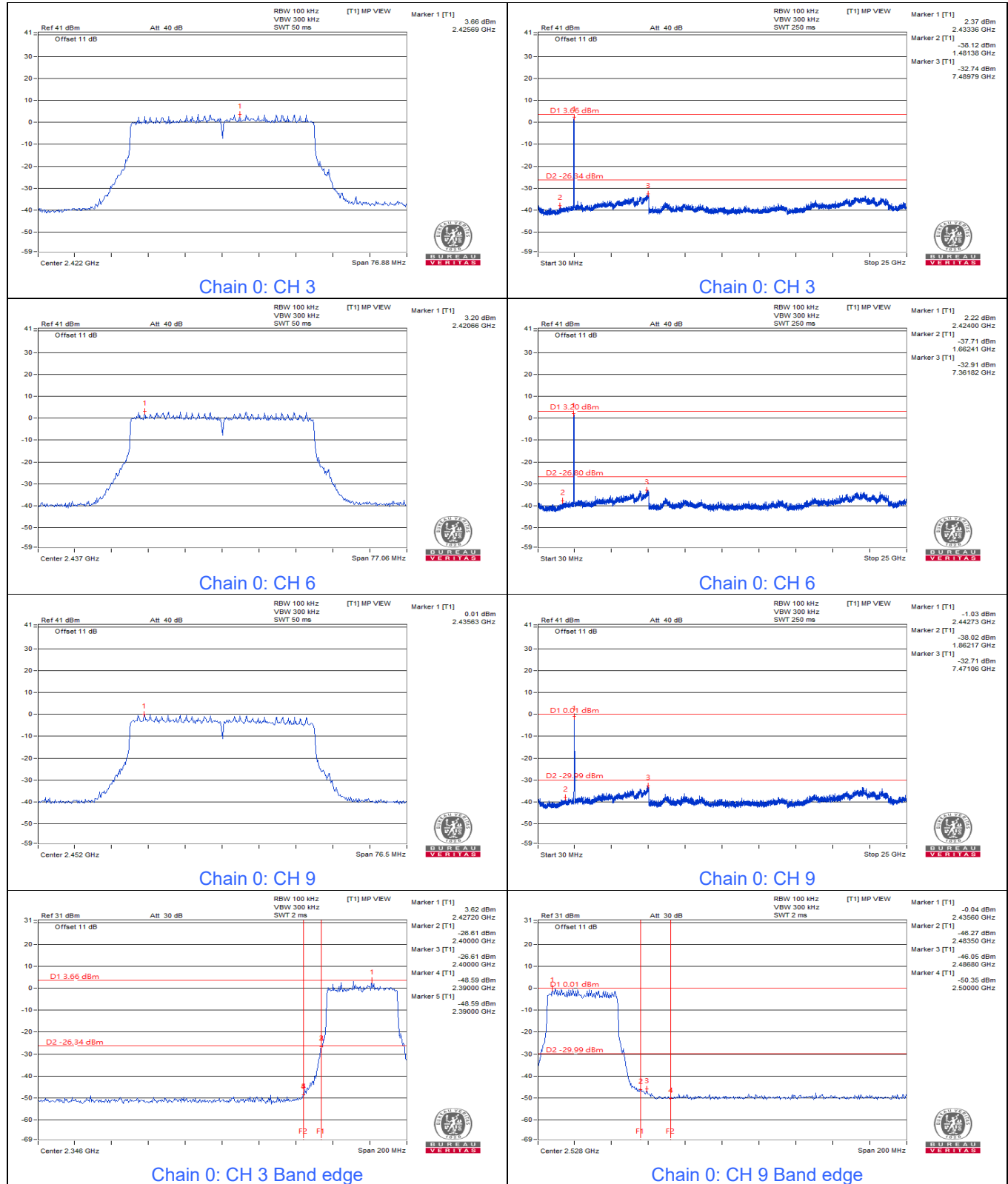


802.11be (EHT20)



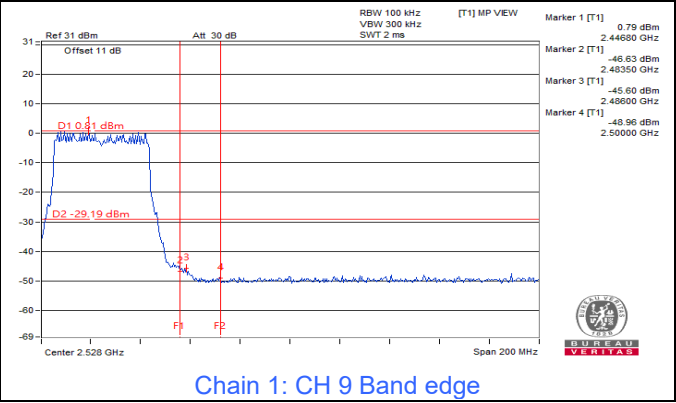
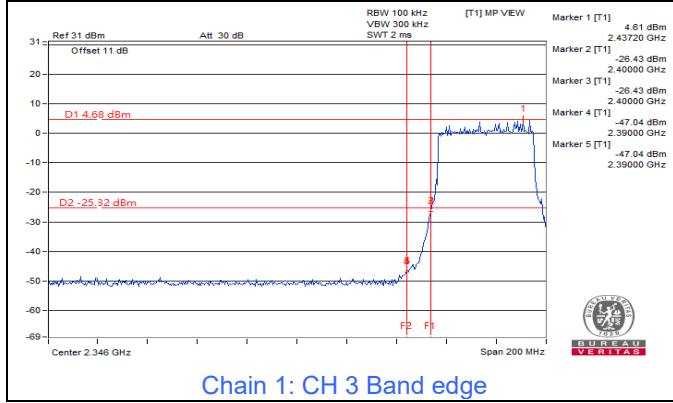
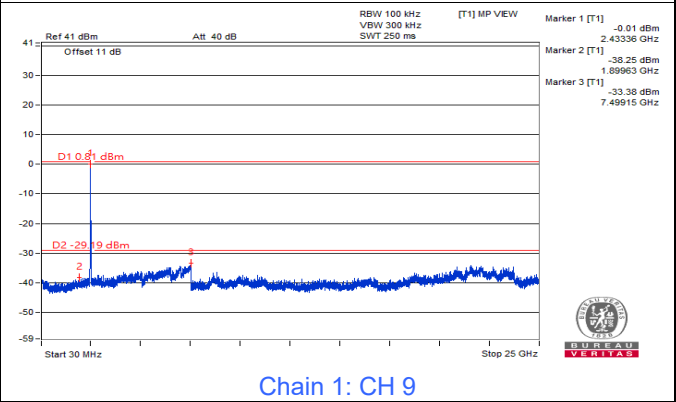
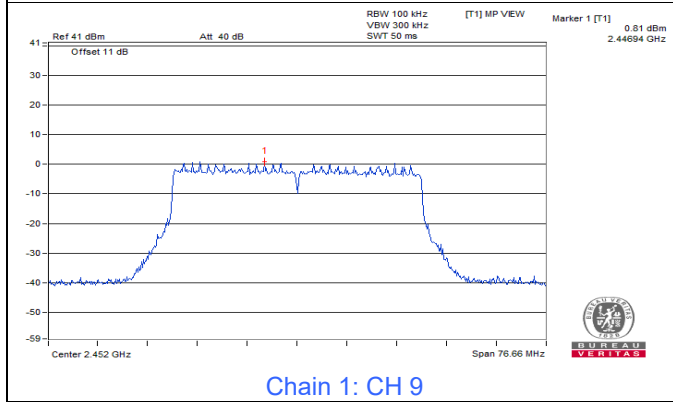
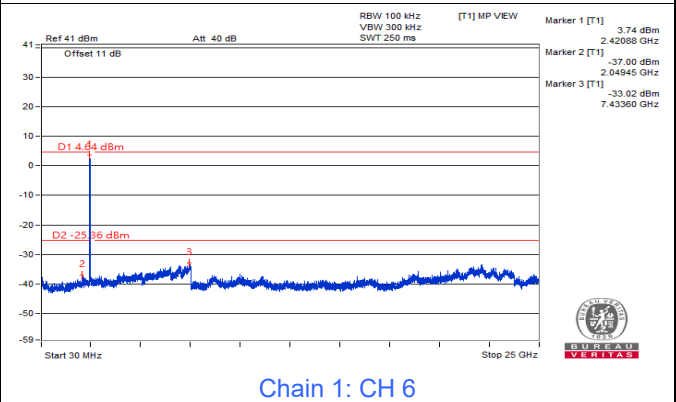
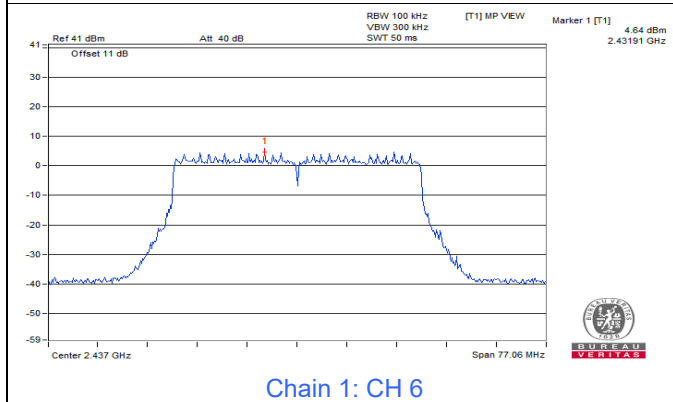
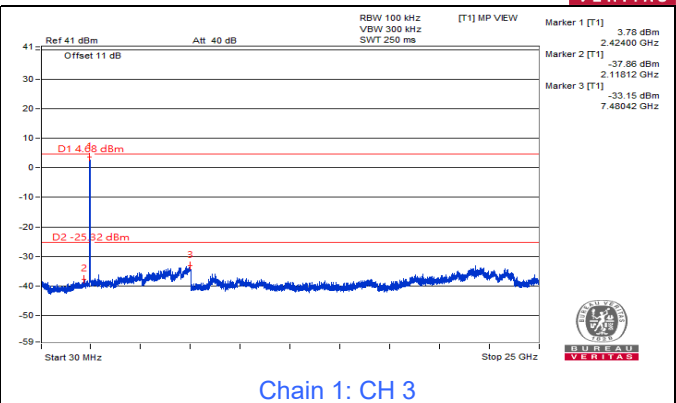
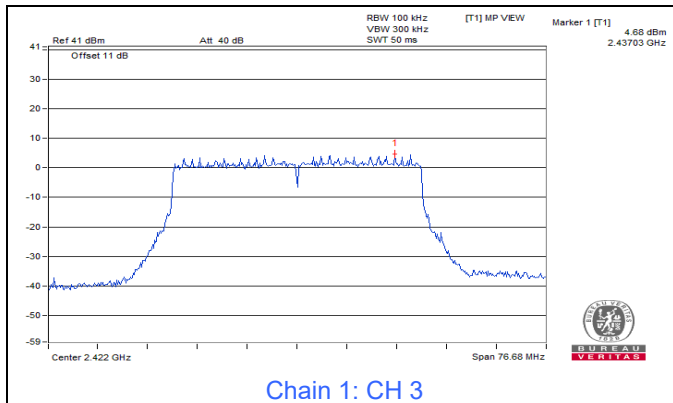


802.11be (EHT40)



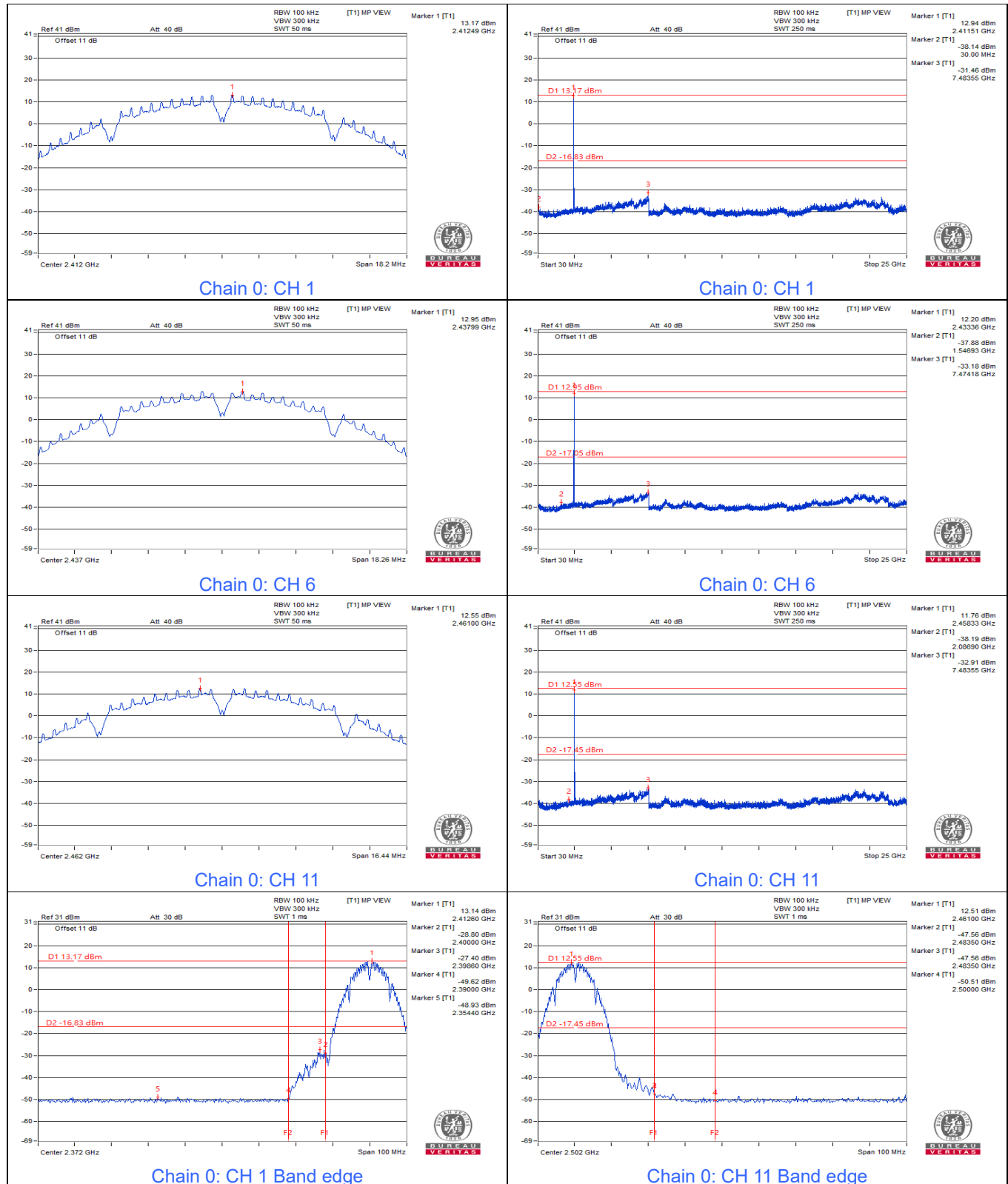


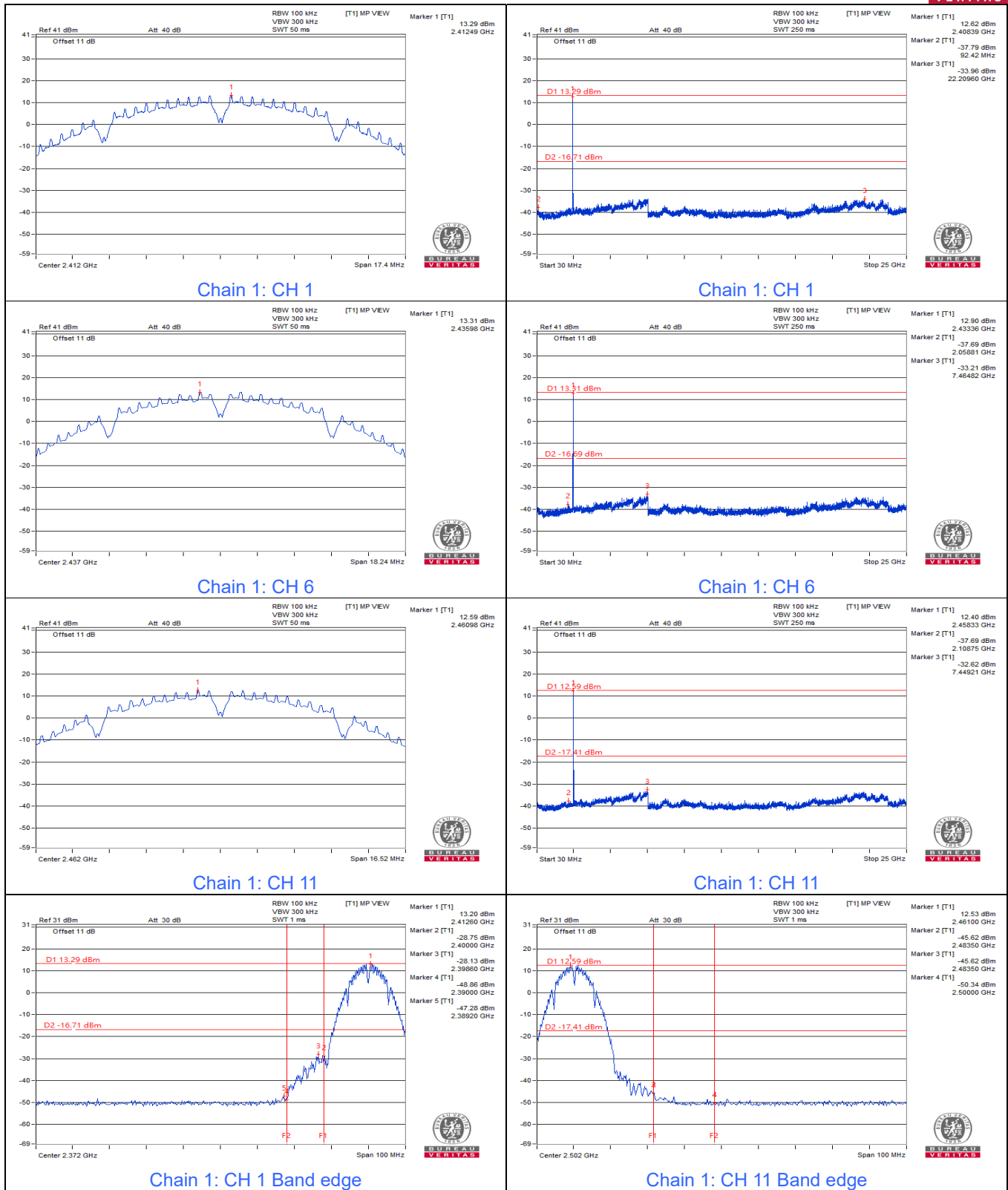
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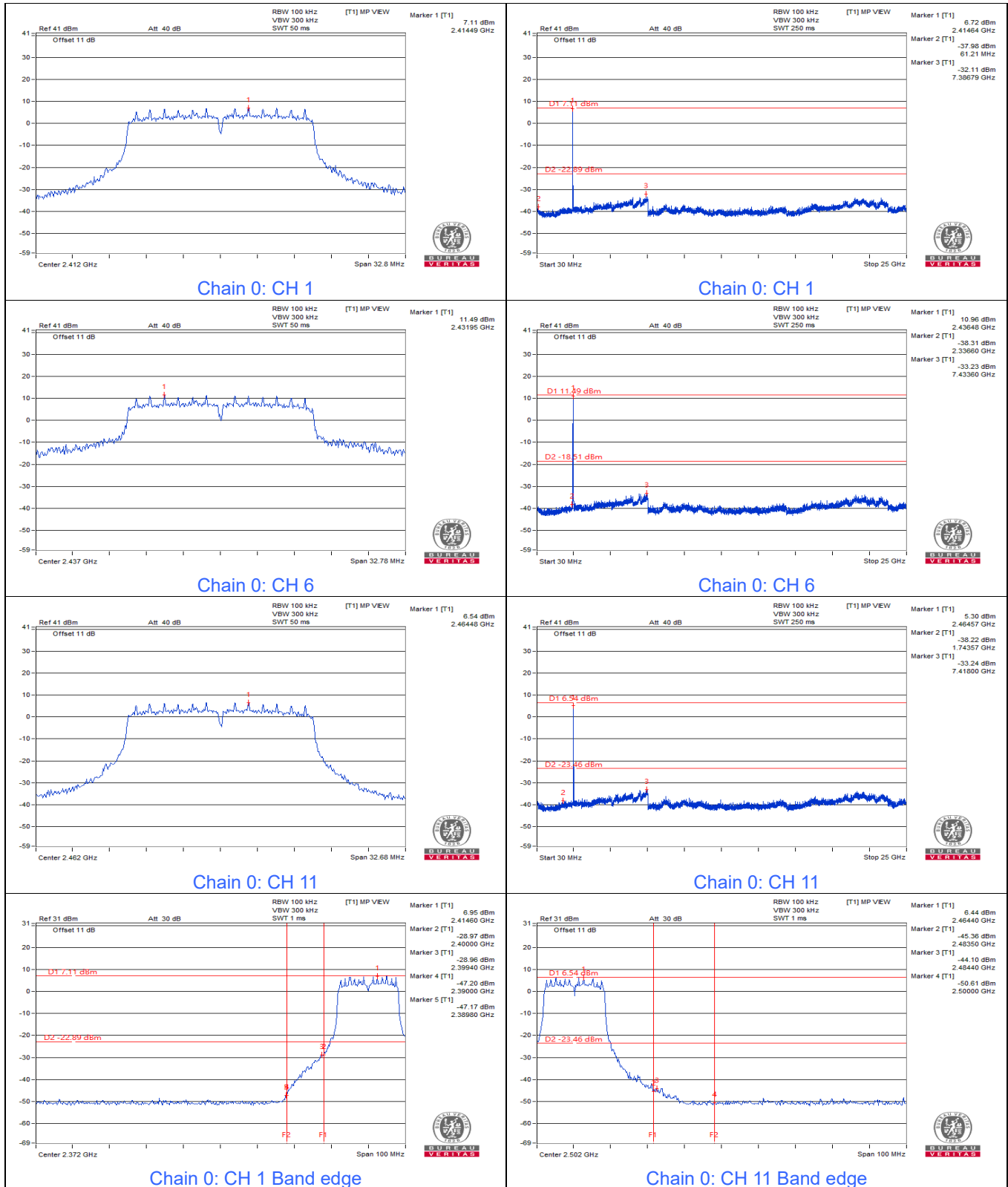
Scan Radio (Mode B)

802.11b



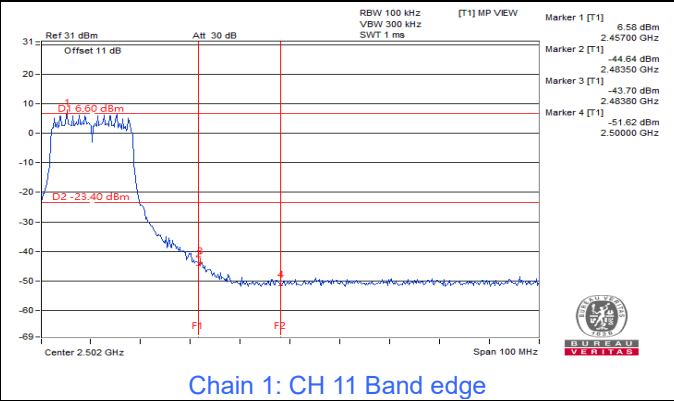
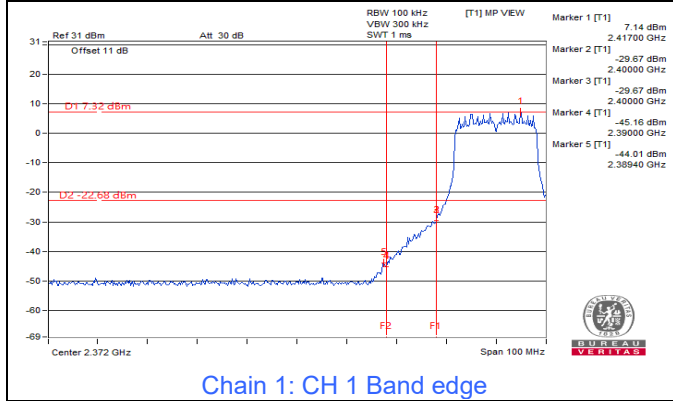
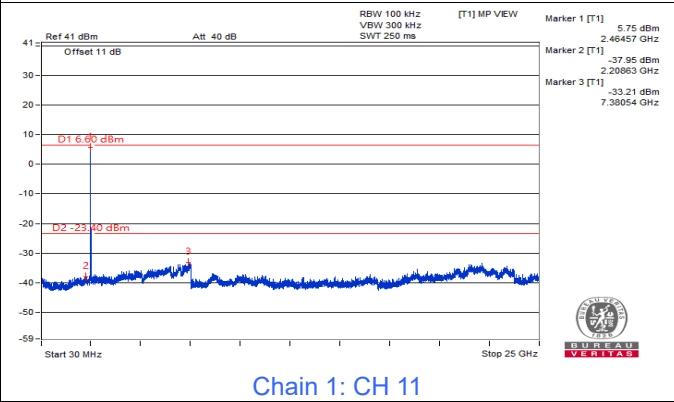
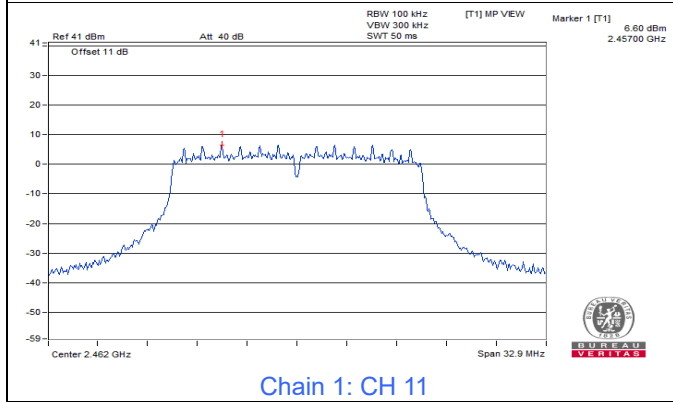
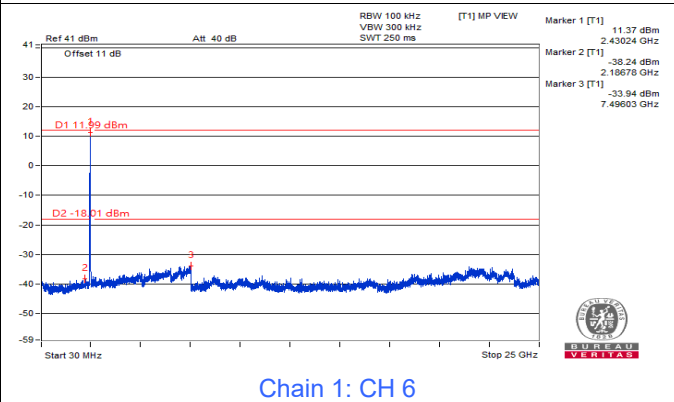
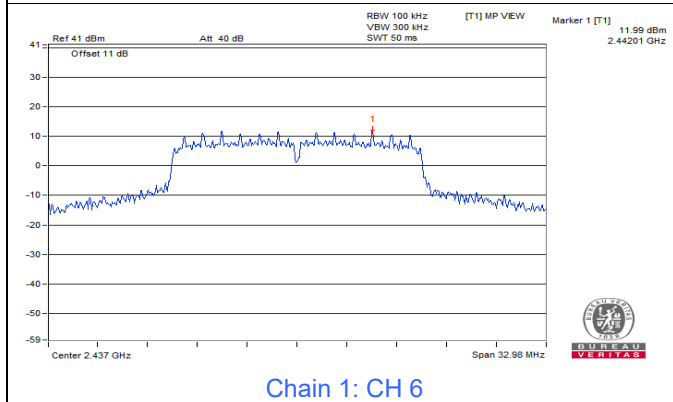
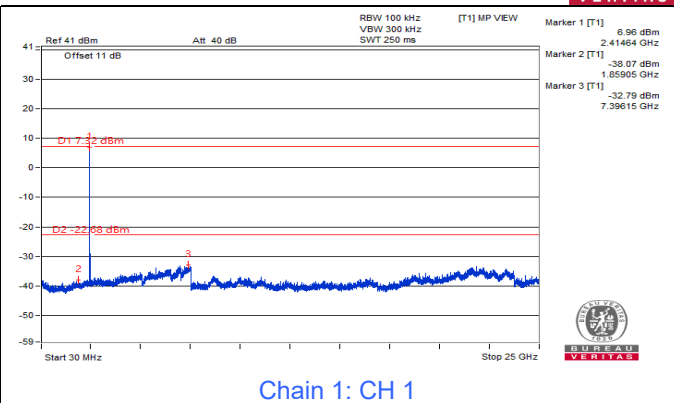
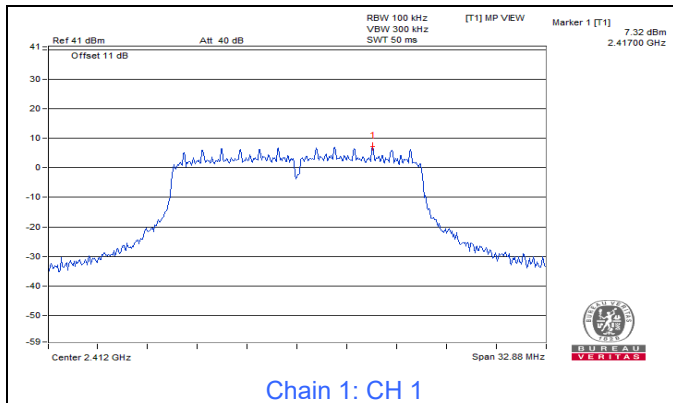


802.11g

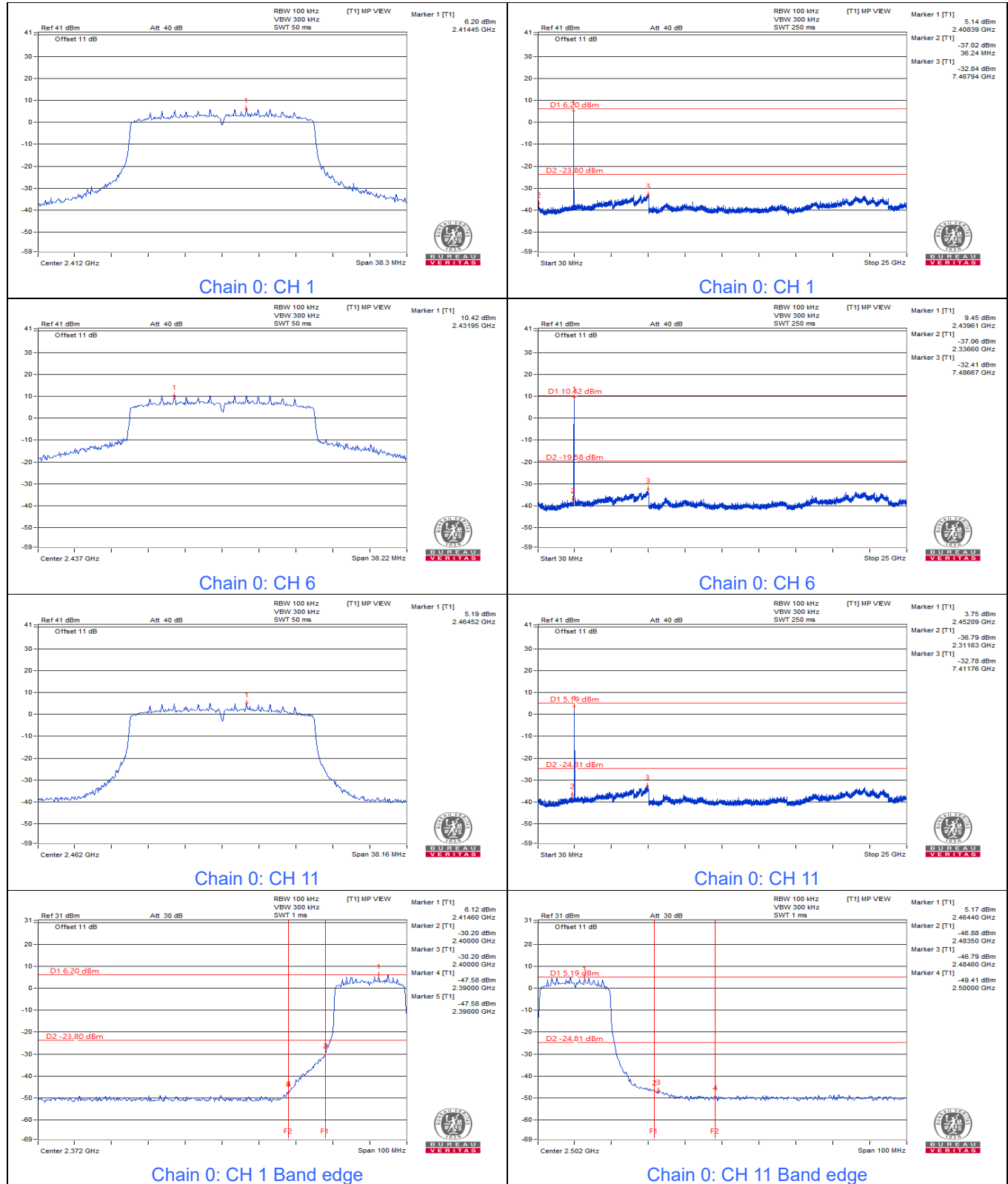


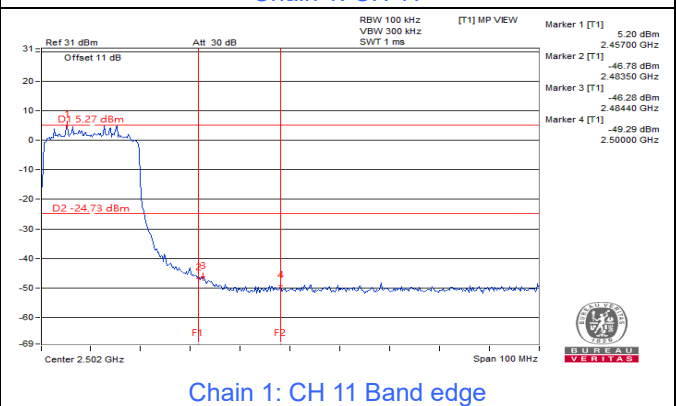
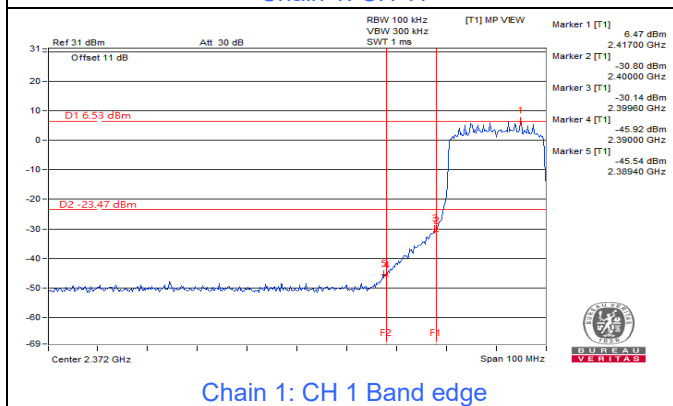
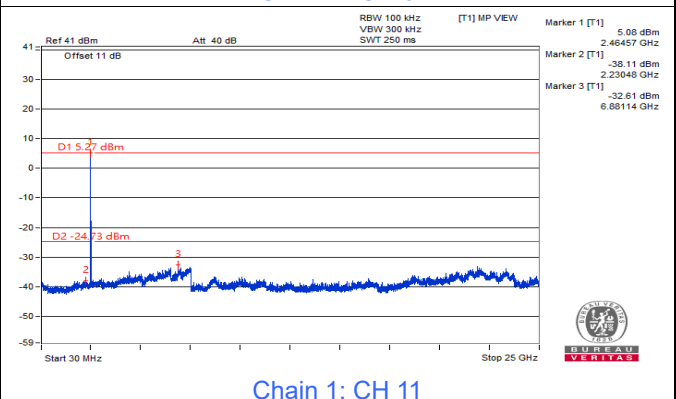
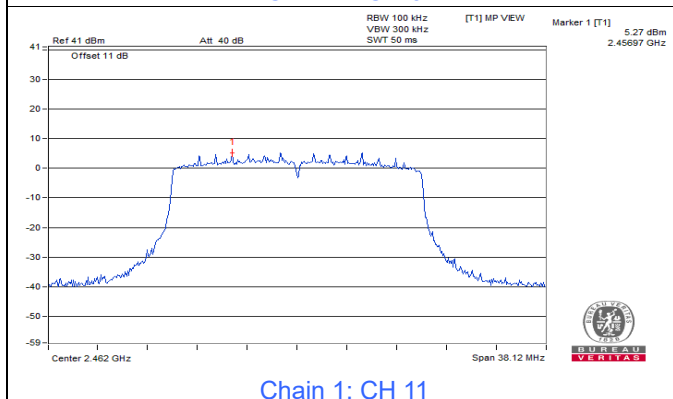
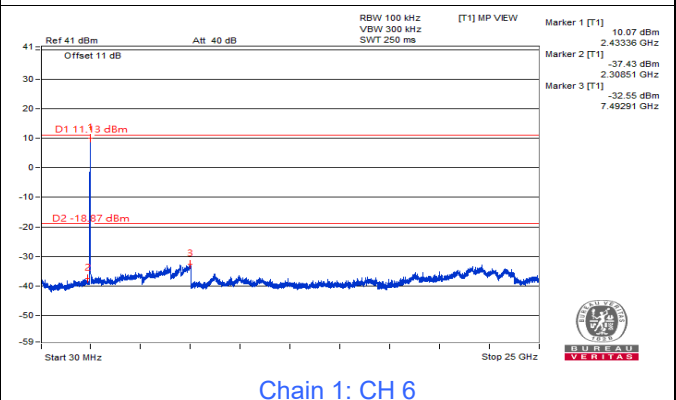
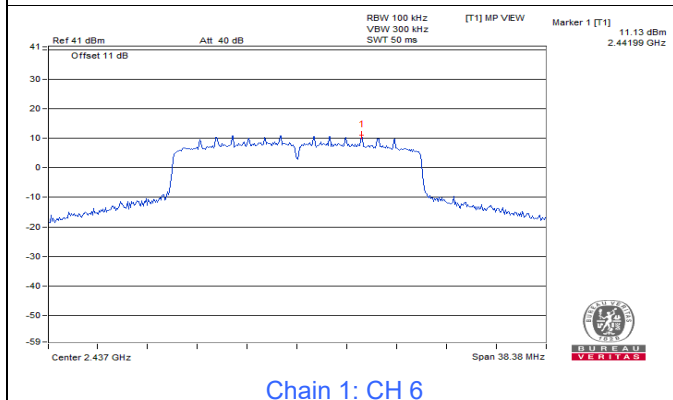
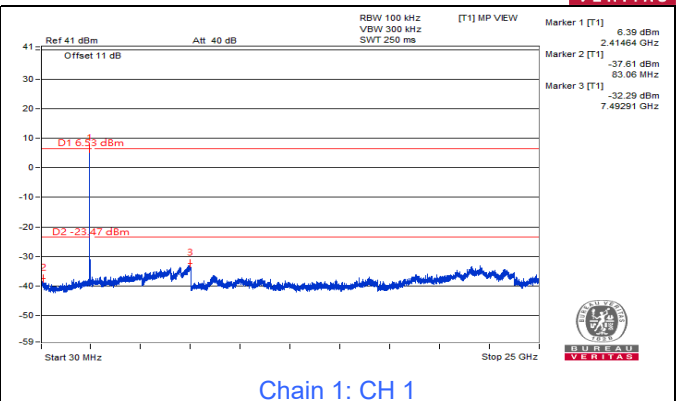
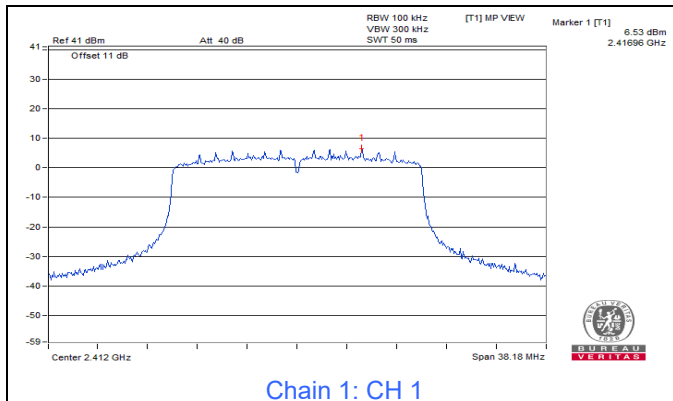


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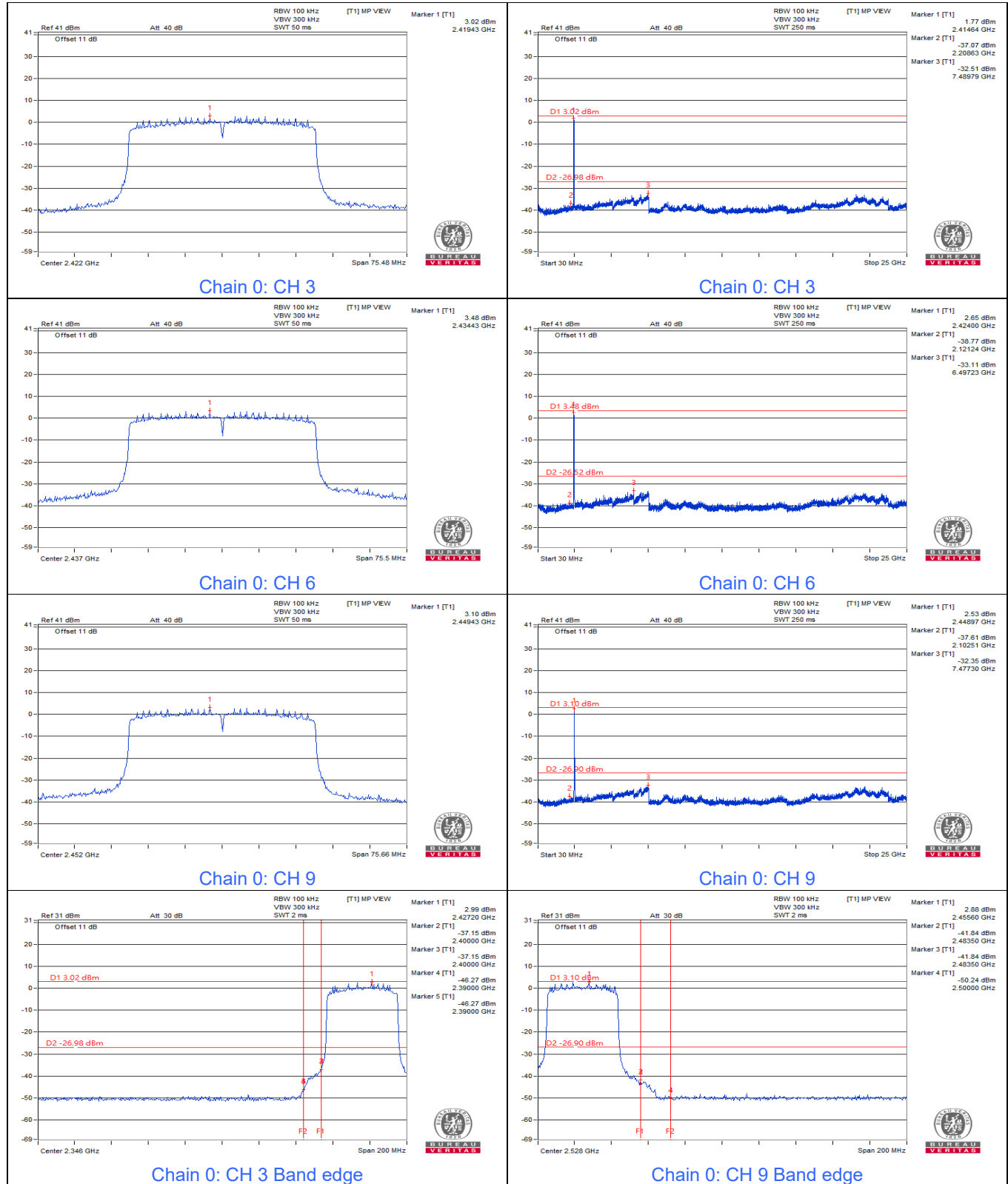


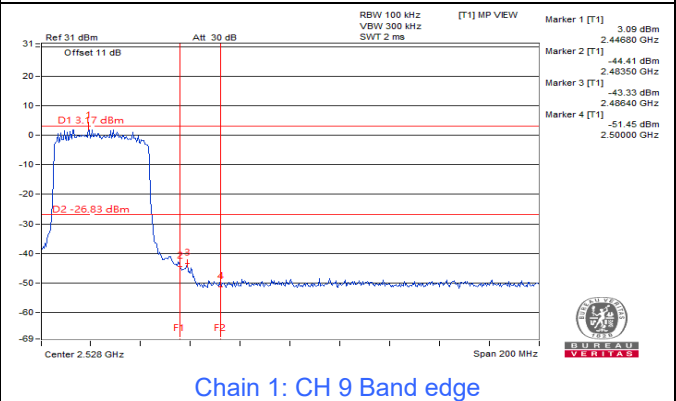
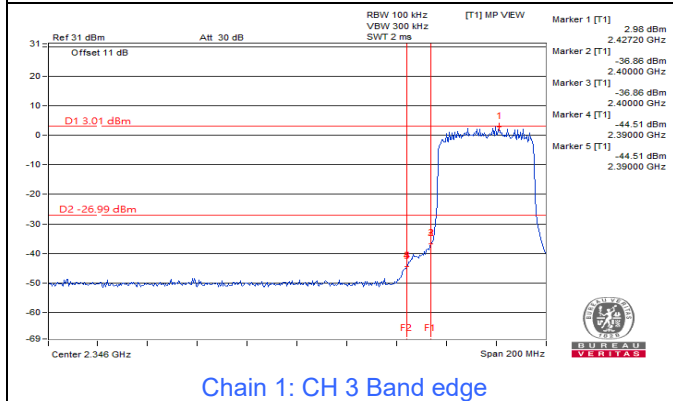
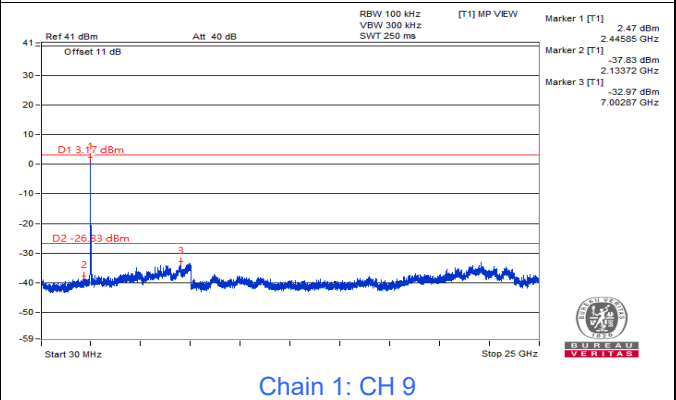
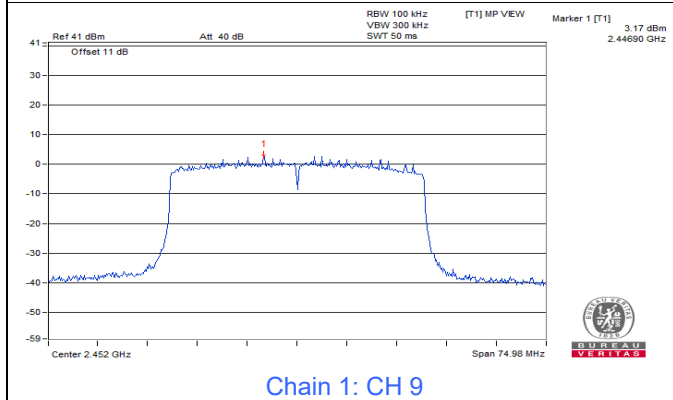
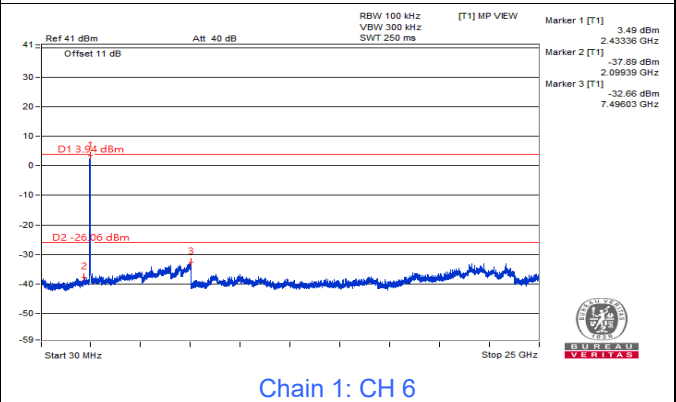
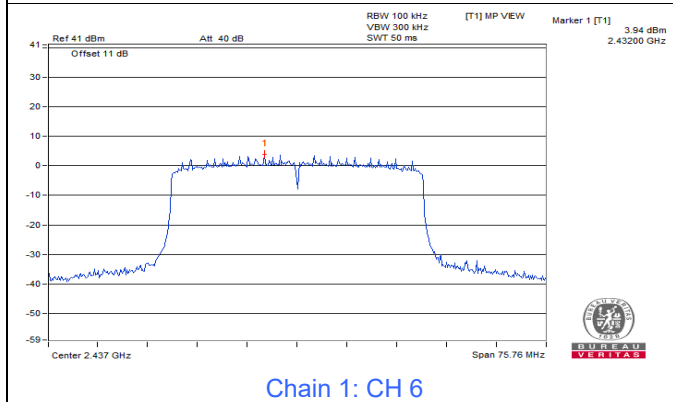
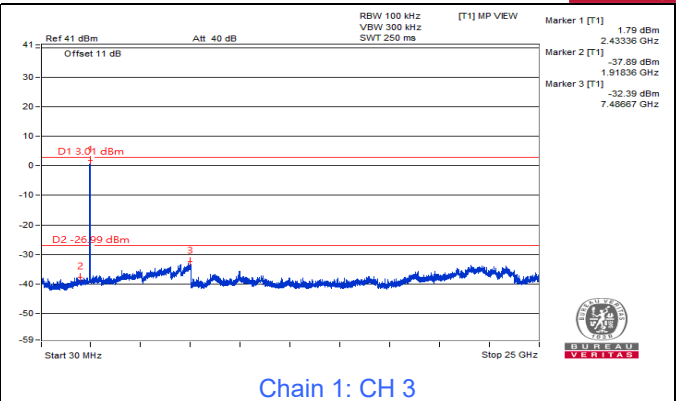
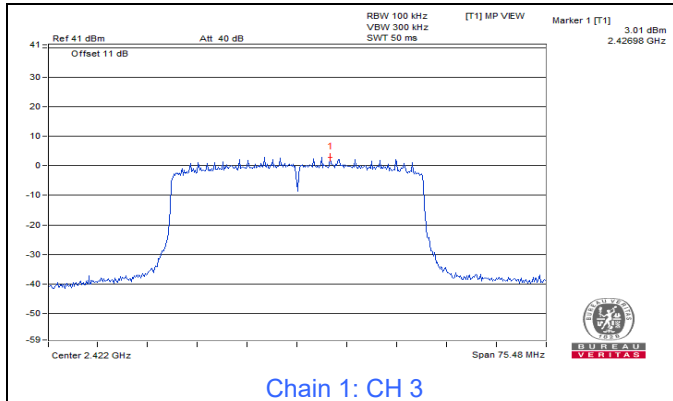
802.11ax (HE20)





802.11ax (HE40)





7.5 AC Power Conducted Emissions

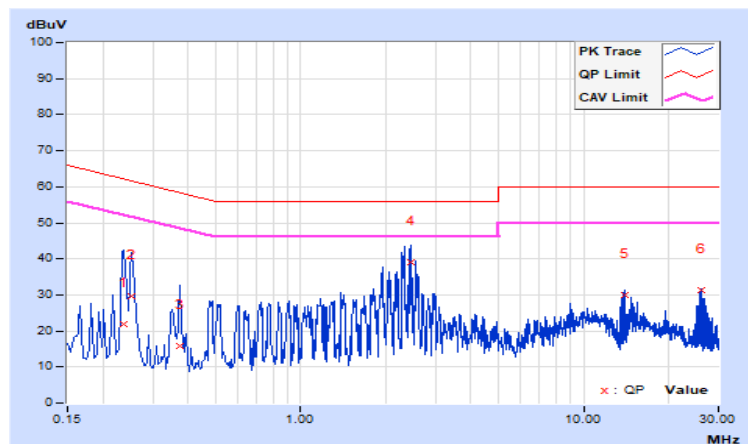
Traffic Radio (Mode A)

RF Mode	802.11b	Channel	CH 6 : 2437 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

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	0.23661	10.22	11.77	2.55	21.99	12.77	62.21	52.21	-40.22	-39.44
2	0.25400	10.23	19.35	8.11	29.58	18.34	61.63	51.63	-32.05	-33.29
3	0.37400	10.32	5.44	1.97	15.76	12.29	58.41	48.41	-42.65	-36.12
4	2.44600	10.45	28.60	13.40	39.05	23.85	56.00	46.00	-16.95	-22.15
5	14.00200	10.81	19.32	16.64	30.13	27.45	60.00	50.00	-29.87	-22.55
6	26.00200	10.68	20.67	18.52	31.35	29.20	60.00	50.00	-28.65	-20.80

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

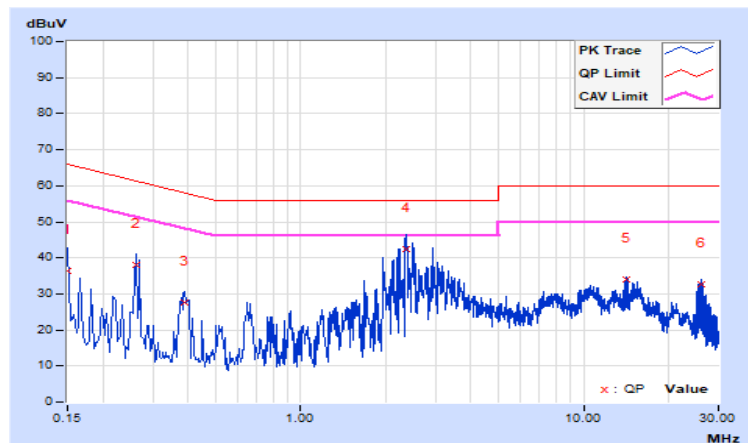


RF Mode	802.11b	Channel	CH 6 : 2437 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

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	0.15000	10.22	26.31	5.28	36.53	15.50	66.00	56.00	-29.47	-40.50
2	0.26200	10.25	27.72	12.62	37.97	22.87	61.37	51.37	-23.40	-28.50
3	0.38827	10.34	17.43	10.22	27.77	20.56	58.10	48.10	-30.33	-27.54
4	2.35000	10.46	31.97	16.64	42.43	27.10	56.00	46.00	-13.57	-18.90
5	14.19400	10.86	23.23	21.75	34.09	32.61	60.00	50.00	-25.91	-17.39
6	25.98600	10.74	21.83	20.81	32.57	31.55	60.00	50.00	-27.43	-18.45

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



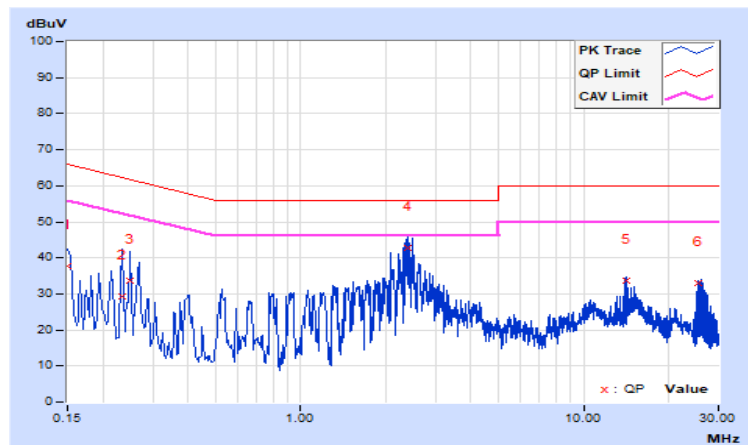
Scan Radio (Mode B)

RF Mode	802.11g	Channel	CH 6 : 2437 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

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	0.15000	10.21	27.59	5.98	37.80	16.19	66.00	56.00	-28.20	-39.81
2	0.23400	10.22	19.13	3.33	29.35	13.55	62.31	52.31	-32.96	-38.76
3	0.25000	10.23	23.54	2.50	33.77	12.73	61.76	51.76	-27.99	-39.03
4	2.38200	10.45	32.19	17.61	42.64	28.06	56.00	46.00	-13.36	-17.94
5	14.19400	10.82	22.87	21.88	33.69	32.70	60.00	50.00	-26.31	-17.30
6	25.59000	10.70	22.33	21.48	33.03	32.18	60.00	50.00	-26.97	-17.82

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

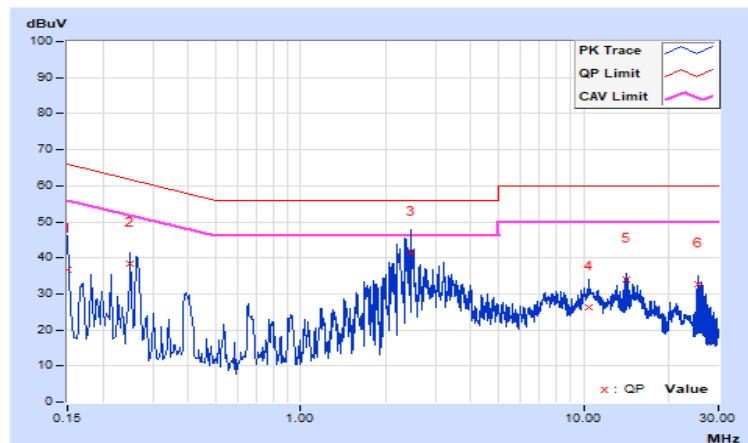


RF Mode	802.11g	Channel	CH 6 : 2437 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

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	0.15000	10.22	26.58	4.70	36.80	14.92	66.00	56.00	-29.20	-41.08
2	0.25000	10.24	28.03	8.78	38.27	19.02	61.76	51.76	-23.49	-32.74
3	2.44600	10.46	30.97	14.21	41.43	24.67	56.00	46.00	-14.57	-21.33
4	10.40600	10.77	15.57	8.41	26.34	19.18	60.00	50.00	-33.66	-30.82
5	14.19000	10.86	23.10	21.61	33.96	32.47	60.00	50.00	-26.04	-17.53
6	25.58600	10.76	21.84	20.71	32.60	31.47	60.00	50.00	-27.40	-18.53

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

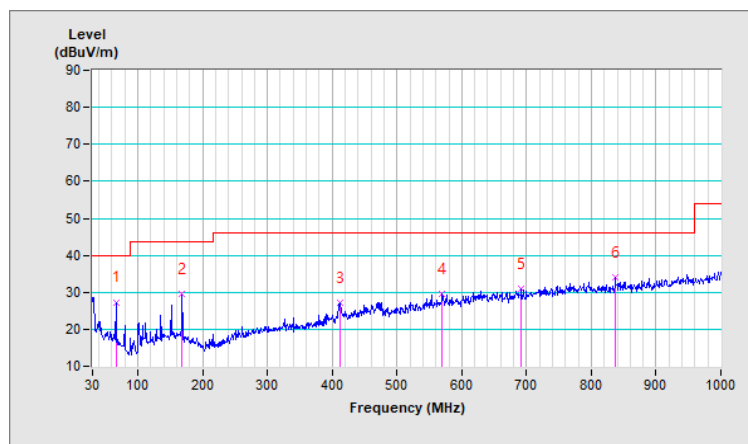
Traffic Radio (Mode A)

RF Mode	802.11b	Channel	CH 6 : 2437 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Rex Wang		

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	65.89	27.4 QP	40.0	-12.6	1.50 H	222	37.9	-10.5
2	167.74	29.4 QP	43.5	-14.1	1.00 H	123	38.4	-9.0
3	412.18	27.1 QP	46.0	-18.9	1.00 H	20	32.1	-5.0
4	569.32	29.6 QP	46.0	-16.4	2.00 H	179	31.5	-1.9
5	692.51	30.9 QP	46.0	-15.1	1.00 H	57	30.1	0.8
6	837.04	34.1 QP	46.0	-11.9	1.00 H	354	30.2	3.9

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 frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

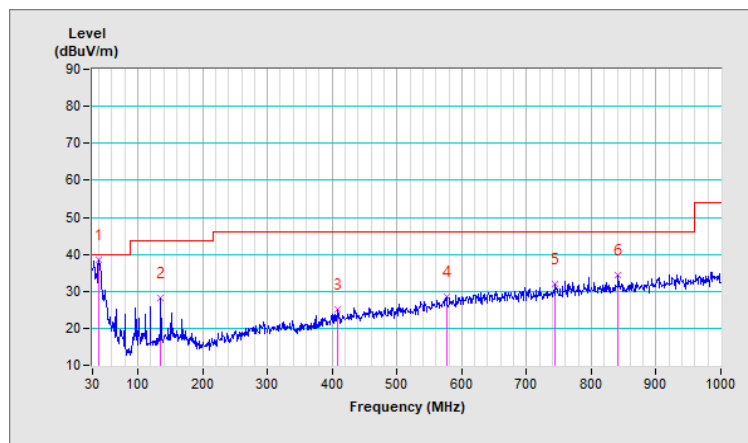


RF Mode	802.11b	Channel	CH 6 : 2437 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Rex Wang		

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	38.73	38.6 QP	40.0	-1.4	1.00 V	345	48.5	-9.9
2	135.73	28.2 QP	43.5	-15.3	1.50 V	28	37.8	-9.6
3	408.30	25.1 QP	46.0	-20.9	1.00 V	333	30.2	-5.1
4	576.11	28.5 QP	46.0	-17.5	1.00 V	252	30.2	-1.7
5	744.89	31.9 QP	46.0	-14.1	1.50 V	85	29.8	2.1
6	841.89	34.5 QP	46.0	-11.5	1.00 V	175	30.6	3.9

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 frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



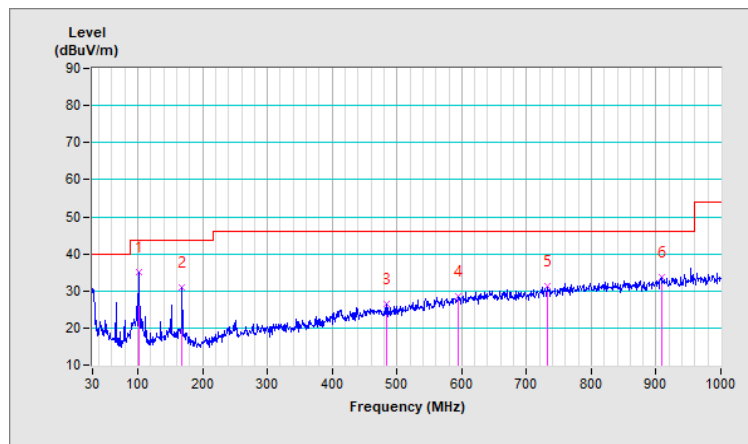
Scan Radio (Mode B)

RF Mode	802.11g	Channel	CH 6 : 2437 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Rex Wang		

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	100.81	35.0 QP	43.5	-8.5	1.00 H	154	48.4	-13.4
2	167.74	31.0 QP	43.5	-12.5	1.00 H	255	40.0	-9.0
3	482.99	26.5 QP	46.0	-19.5	1.50 H	308	30.0	-3.5
4	595.51	28.5 QP	46.0	-17.5	1.00 H	297	29.5	-1.0
5	732.28	31.2 QP	46.0	-14.8	1.00 H	25	29.5	1.7
6	907.85	33.7 QP	46.0	-12.3	2.00 H	123	28.3	5.4

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 frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

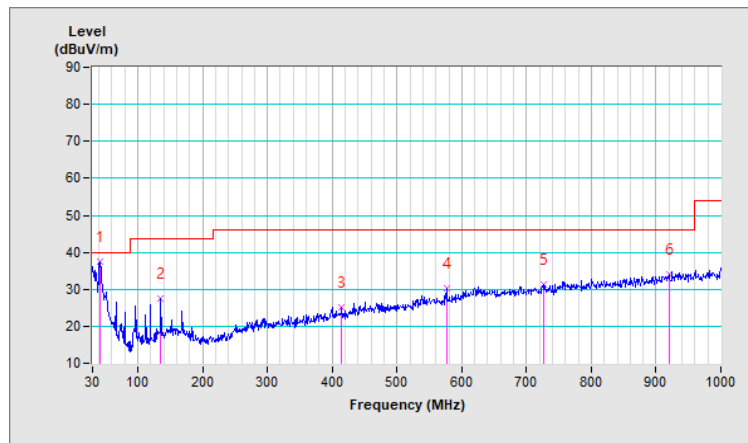


RF Mode	802.11g	Channel	CH 6 : 2437 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Rex Wang		

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	40.67	37.6 QP	40.0	-2.4	1.50 V	111	47.2	-9.6
2	135.73	27.5 QP	43.5	-16.0	1.00 V	278	37.1	-9.6
3	415.09	25.0 QP	46.0	-21.0	1.00 V	305	29.9	-4.9
4	576.11	30.3 QP	46.0	-15.7	1.00 V	97	32.0	-1.7
5	726.46	31.4 QP	46.0	-14.6	1.00 V	250	29.9	1.5
6	919.49	33.9 QP	46.0	-12.1	1.00 V	117	28.3	5.6

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 frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



7.7 Unwanted Emissions above 1 GHz

Traffic Radio (Mode A)

RF Mode	802.11b	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	19.5 °C, 79.3% RH
Tested By	Rex Wang		

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	2390.00	60.9 PK	74.0	-13.1	1.46 H	17	25.9	35.0
2	2390.00	49.4 AV	54.0	-4.6	1.46 H	17	14.4	35.0
3	*2412.00	121.3 PK			1.46 H	17	86.4	34.9
4	*2412.00	119.0 AV			1.46 H	17	84.1	34.9
5	4824.00	53.1 PK	74.0	-20.9	1.91 H	4	41.6	11.5
6	4824.00	43.3 AV	54.0	-10.7	1.91 H	4	31.8	11.5
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	2390.00	60.6 PK	74.0	-13.4	1.18 V	33	25.6	35.0
2	2390.00	49.0 AV	54.0	-5.0	1.18 V	33	14.0	35.0
3	*2412.00	121.2 PK			1.18 V	33	86.3	34.9
4	*2412.00	118.9 AV			1.18 V	33	84.0	34.9
5	4824.00	52.4 PK	74.0	-21.6	1.45 V	305	40.9	11.5
6	4824.00	43.1 AV	54.0	-10.9	1.45 V	305	31.6	11.5

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.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11b	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	19.5 °C, 79.3% RH
Tested By	Rex Wang		

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	*2437.00	123.7 PK			1.53 H	0	88.8	34.9
2	*2437.00	121.3 AV			1.53 H	0	86.4	34.9
3	4874.00	53.9 PK	74.0	-20.1	2.04 H	6	42.4	11.5
4	4874.00	46.0 AV	54.0	-8.0	2.04 H	6	34.5	11.5
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	*2437.00	123.5 PK			1.64 V	41	88.6	34.9
2	*2437.00	121.1 AV			1.64 V	41	86.2	34.9
3	4874.00	53.7 PK	74.0	-20.3	1.32 V	319	42.2	11.5
4	4874.00	45.8 AV	54.0	-8.2	1.32 V	319	34.3	11.5

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.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11b	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	19.5 °C, 79.3% RH
Tested By	Rex Wang		

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	*2462.00	121.4 PK			1.36 H	353	86.5	34.9
2	*2462.00	118.7 AV			1.36 H	353	83.8	34.9
3	2483.50	63.3 PK	74.0	-10.7	1.36 H	353	28.4	34.9
4	2483.50	53.7 AV	54.0	-0.3	1.36 H	353	18.8	34.9
5	4924.00	53.3 PK	74.0	-20.7	1.95 H	5	41.8	11.5
6	4924.00	41.7 AV	54.0	-12.3	1.95 H	5	30.2	11.5
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	*2462.00	121.3 PK			1.07 V	345	86.4	34.9
2	*2462.00	118.6 AV			1.07 V	345	83.7	34.9
3	2483.50	62.5 PK	74.0	-11.5	1.07 V	345	27.6	34.9
4	2483.50	51.9 AV	54.0	-2.1	1.07 V	345	17.0	34.9
5	4924.00	52.1 PK	74.0	-21.9	1.64 V	309	40.6	11.5
6	4924.00	41.4 AV	54.0	-12.6	1.64 V	309	29.9	11.5

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.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11g	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	19.5 °C, 79.3% RH
Tested By	Rex Wang		

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	2390.00	66.4 PK	74.0	-7.6	1.42 H	0	31.4	35.0
2	2390.00	53.1 AV	54.0	-0.9	1.42 H	0	18.1	35.0
3	*2412.00	120.8 PK			1.42 H	0	85.9	34.9
4	*2412.00	111.9 AV			1.42 H	0	77.0	34.9
5	4824.00	52.9 PK	74.0	-21.1	2.20 H	5	41.4	11.5
6	4824.00	39.3 AV	54.0	-14.7	2.20 H	5	27.8	11.5
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	2390.00	65.9 PK	74.0	-8.1	1.72 V	38	30.9	35.0
2	2390.00	53.0 AV	54.0	-1.0	1.72 V	38	18.0	35.0
3	*2412.00	120.1 PK			1.72 V	38	85.2	34.9
4	*2412.00	110.4 AV			1.72 V	38	75.5	34.9
5	4824.00	52.6 PK	74.0	-21.4	1.56 V	345	41.1	11.5
6	4824.00	39.1 AV	54.0	-14.9	1.56 V	345	27.6	11.5

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.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11g	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	19.5 °C, 79.3% RH
Tested By	Rex Wang		

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	*2437.00	123.9 PK			1.54 H	347	89.0	34.9
2	*2437.00	114.5 AV			1.54 H	347	79.6	34.9
3	2483.50	70.1 PK	74.0	-3.9	1.54 H	347	35.2	34.9
4	2483.50	52.9 AV	54.0	-1.1	1.54 H	347	18.0	34.9
5	4874.00	53.1 PK	74.0	-20.9	2.24 H	10	41.6	11.5
6	4874.00	40.4 AV	54.0	-13.6	2.24 H	10	28.9	11.5
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	*2437.00	122.1 PK			1.87 V	37	87.2	34.9
2	*2437.00	112.4 AV			1.87 V	37	77.5	34.9
3	2483.50	63.1 PK	74.0	-10.9	1.87 V	37	28.2	34.9
4	2483.50	51.2 AV	54.0	-2.8	1.87 V	37	16.3	34.9
5	4874.00	52.6 PK	74.0	-21.4	1.55 V	308	41.1	11.5
6	4874.00	39.9 AV	54.0	-14.1	1.55 V	308	28.4	11.5

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.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11g	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	19.5 °C, 79.3% RH
Tested By	Rex Wang		

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	*2462.00	119.0 PK			1.26 H	9	84.1	34.9
2	*2462.00	109.3 AV			1.26 H	9	74.4	34.9
3	2483.50	64.9 PK	74.0	-9.1	1.26 H	9	30.0	34.9
4	2483.50	52.9 AV	54.0	-1.1	1.26 H	9	18.0	34.9
5	4924.00	52.7 PK	74.0	-21.3	2.23 H	6	41.2	11.5
6	4924.00	39.1 AV	54.0	-14.9	2.23 H	6	27.6	11.5
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	*2462.00	116.8 PK			1.70 V	35	81.9	34.9
2	*2462.00	107.1 AV			1.70 V	35	72.2	34.9
3	2483.50	63.1 PK	74.0	-10.9	1.70 V	35	28.2	34.9
4	2483.50	50.8 AV	54.0	-3.2	1.70 V	35	15.9	34.9
5	4924.00	52.2 PK	74.0	-21.8	1.55 V	356	40.7	11.5
6	4924.00	38.9 AV	54.0	-15.1	1.55 V	356	27.4	11.5

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.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11be (EHT20)	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	19.5 °C, 79.3% RH
Tested By	Rex Wang		

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	2390.00	66.2 PK	74.0	-7.8	1.63 H	354	31.2	35.0
2	2390.00	52.8 AV	54.0	-1.2	1.63 H	354	17.8	35.0
3	*2412.00	122.3 PK			1.63 H	354	87.4	34.9
4	*2412.00	111.0 AV			1.63 H	354	76.1	34.9
5	4824.00	52.3 PK	74.0	-21.7	2.21 H	8	40.8	11.5
6	4824.00	39.3 AV	54.0	-14.7	2.21 H	8	27.8	11.5
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	2390.00	70.1 PK	74.0	-3.9	1.64 V	31	35.1	35.0
2	2390.00	53.8 AV	54.0	-0.2	1.64 V	31	18.8	35.0
3	*2412.00	120.5 PK			1.64 V	31	85.6	34.9
4	*2412.00	108.5 AV			1.64 V	31	73.6	34.9
5	4824.00	52.1 PK	74.0	-21.9	1.55 V	343	40.6	11.5
6	4824.00	39.0 AV	54.0	-15.0	1.55 V	343	27.5	11.5

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.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11be (EHT20)	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	19.5 °C, 79.3% RH
Tested By	Rex Wang		

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	*2437.00	126.0 PK			1.58 H	0	91.1	34.9
2	*2437.00	112.9 AV			1.58 H	0	78.0	34.9
3	2483.50	69.7 PK	74.0	-4.3	1.58 H	0	34.8	34.9
4	2483.50	53.9 AV	54.0	-0.1	1.58 H	0	19.0	34.9
5	4874.00	52.9 PK	74.0	-21.1	1.97 H	4	41.4	11.5
6	4874.00	39.4 AV	54.0	-14.6	1.97 H	4	27.9	11.5
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	*2437.00	123.5 PK			1.88 V	32	88.6	34.9
2	*2437.00	110.3 AV			1.88 V	32	75.4	34.9
3	2483.50	66.4 PK	74.0	-7.6	1.88 V	32	31.5	34.9
4	2483.50	53.0 AV	54.0	-1.0	1.88 V	32	18.1	34.9
5	4874.00	52.3 PK	74.0	-21.7	1.58 V	346	40.8	11.5
6	4874.00	39.1 AV	54.0	-14.9	1.58 V	346	27.6	11.5

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.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11be (EHT20)	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	19.5 °C, 79.3% RH
Tested By	Rex Wang		

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	*2462.00	121.3 PK			1.57 H	7	86.4	34.9
2	*2462.00	109.5 AV			1.57 H	7	74.6	34.9
3	2483.50	71.0 PK	74.0	-3.0	1.57 H	7	36.1	34.9
4	2483.50	53.5 AV	54.0	-0.5	1.57 H	7	18.6	34.9
5	4924.00	53.0 PK	74.0	-21.0	2.04 H	10	41.5	11.5
6	4924.00	39.1 AV	54.0	-14.9	2.04 H	10	27.6	11.5
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	*2462.00	119.5 PK			1.72 V	31	84.6	34.9
2	*2462.00	107.3 AV			1.72 V	31	72.4	34.9
3	2483.50	67.5 PK	74.0	-6.5	1.72 V	34	32.6	34.9
4	2483.50	53.3 AV	54.0	-0.7	1.72 V	34	18.4	34.9
5	4924.00	52.3 PK	74.0	-21.7	1.55 V	346	40.8	11.5
6	4924.00	38.9 AV	54.0	-15.1	1.55 V	346	27.4	11.5

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.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11be (EHT40)	Channel	CH 3 : 2422 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	19.5 °C, 79.3% RH
Tested By	Rex Wang		

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	2390.00	64.1 PK	74.0	-9.9	1.60 H	2	29.1	35.0
2	2390.00	53.0 AV	54.0	-1.0	1.60 H	2	18.0	35.0
3	*2422.00	117.7 PK			1.60 H	2	82.8	34.9
4	*2422.00	105.3 AV			1.60 H	2	70.4	34.9
5	4844.00	52.4 PK	74.0	-21.6	2.20 H	7	40.8	11.6
6	4844.00	39.1 AV	54.0	-14.9	2.20 H	7	27.5	11.6
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	2390.00	60.9 PK	74.0	-13.1	1.67 V	35	25.9	35.0
2	2390.00	48.8 AV	54.0	-5.2	1.67 V	35	13.8	35.0
3	*2422.00	116.5 PK			1.67 V	35	81.6	34.9
4	*2422.00	104.0 AV			1.67 V	35	69.1	34.9
5	4844.00	52.1 PK	74.0	-21.9	1.56 V	346	40.5	11.6
6	4844.00	38.8 AV	54.0	-15.2	1.56 V	346	27.2	11.6

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.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11be (EHT40)	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	19.5 °C, 79.3% RH
Tested By	Rex Wang		

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	*2437.00	118.9 PK			1.60 H	358	84.0	34.9
2	*2437.00	105.7 AV			1.60 H	358	70.8	34.9
3	2483.50	68.7 PK	74.0	-5.3	1.60 H	358	33.8	34.9
4	2483.50	53.9 AV	54.0	-0.1	1.60 H	358	19.0	34.9
5	4874.00	52.2 PK	74.0	-21.8	2.16 H	8	40.7	11.5
6	4874.00	39.4 AV	54.0	-14.6	2.16 H	8	27.9	11.5
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	*2437.00	116.9 PK			1.56 V	40	82.0	34.9
2	*2437.00	103.8 AV			1.56 V	40	68.9	34.9
3	2483.50	63.3 PK	74.0	-10.7	1.56 V	40	28.4	34.9
4	2483.50	52.3 AV	54.0	-1.7	1.56 V	40	17.4	34.9
5	4874.00	51.9 PK	74.0	-22.1	1.56 V	342	40.4	11.5
6	4874.00	38.9 AV	54.0	-15.1	1.56 V	342	27.4	11.5

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.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11be (EHT40)	Channel	CH 9 : 2452 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	19.5 °C, 79.3% RH
Tested By	Rex Wang		

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	*2452.00	114.7 PK			1.60 H	359	79.8	34.9
2	*2452.00	101.7 AV			1.60 H	359	66.8	34.9
3	2483.50	65.1 PK	74.0	-8.9	1.60 H	359	30.2	34.9
4	2483.50	52.8 AV	54.0	-1.2	1.60 H	359	17.9	34.9
5	4904.00	52.6 PK	74.0	-21.4	2.24 H	6	41.2	11.4
6	4904.00	38.8 AV	54.0	-15.2	2.24 H	6	27.4	11.4
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	*2452.00	112.7 PK			1.49 V	32	77.8	34.9
2	*2452.00	99.9 AV			1.49 V	32	65.0	34.9
3	2483.50	61.3 PK	74.0	-12.7	1.49 V	32	26.4	34.9
4	2483.50	50.3 AV	54.0	-3.7	1.49 V	32	15.4	34.9
5	4904.00	52.4 PK	74.0	-21.6	1.55 V	347	41.0	11.4
6	4904.00	38.6 AV	54.0	-15.4	1.55 V	347	27.2	11.4

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.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

Scan Radio (Mode B)

RF Mode	802.11b	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Rex Wang		

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	2390.00	63.3 PK	74.0	-10.7	1.54 H	319	28.3	35.0
2	2390.00	53.6 AV	54.0	-0.4	1.54 H	319	18.6	35.0
3	*2412.00	117.1 PK			1.54 H	319	82.2	34.9
4	*2412.00	114.5 AV			1.54 H	319	79.6	34.9
5	4824.00	51.8 PK	74.0	-22.2	1.52 H	53	40.3	11.5
6	4824.00	39.9 AV	54.0	-14.1	1.52 H	53	28.4	11.5
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	2390.00	62.3 PK	74.0	-11.7	3.41 V	11	27.3	35.0
2	2390.00	51.6 AV	54.0	-2.4	3.41 V	11	16.6	35.0
3	*2412.00	117.4 PK			3.41 V	11	82.5	34.9
4	*2412.00	114.9 AV			3.41 V	11	80.0	34.9
5	4824.00	52.0 PK	74.0	-22.0	1.66 V	7	40.5	11.5
6	4824.00	40.0 AV	54.0	-14.0	1.66 V	7	28.5	11.5

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.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11b	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Rex Wang		

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	*2437.00	118.0 PK			1.50 H	324	83.1	34.9
2	*2437.00	115.5 AV			1.50 H	324	80.6	34.9
3	4874.00	52.5 PK	74.0	-21.5	1.54 H	55	41.0	11.5
4	4874.00	40.4 AV	54.0	-13.6	1.54 H	55	28.9	11.5
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	*2437.00	118.1 PK			2.04 V	35	83.2	34.9
2	*2437.00	115.6 AV			2.04 V	35	80.7	34.9
3	4874.00	53.0 PK	74.0	-21.0	1.64 V	7	41.5	11.5
4	4874.00	40.5 AV	54.0	-13.5	1.64 V	7	29.0	11.5

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.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11b	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Rex Wang		

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	*2462.00	116.8 PK			1.76 H	23	81.9	34.9
2	*2462.00	114.3 AV			1.76 H	23	79.4	34.9
3	2483.50	62.7 PK	74.0	-11.3	1.76 H	23	27.8	34.9
4	2483.50	52.9 AV	54.0	-1.1	1.76 H	23	18.0	34.9
5	4924.00	51.8 PK	74.0	-22.2	1.54 H	55	40.3	11.5
6	4924.00	39.6 AV	54.0	-14.4	1.54 H	55	28.1	11.5
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	*2462.00	118.3 PK			2.63 V	5	83.4	34.9
2	*2462.00	115.8 AV			2.63 V	5	80.9	34.9
3	2483.50	62.9 PK	74.0	-11.1	2.63 V	5	28.0	34.9
4	2483.50	53.4 AV	54.0	-0.6	2.63 V	5	18.5	34.9
5	4924.00	52.0 PK	74.0	-22.0	1.64 V	8	40.5	11.5
6	4924.00	39.9 AV	54.0	-14.1	1.64 V	8	28.4	11.5

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.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11g	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Rex Wang		

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	2390.00	63.0 PK	74.0	-11.0	1.17 H	318	28.0	35.0
2	2390.00	51.0 AV	54.0	-3.0	1.17 H	318	16.0	35.0
3	*2412.00	116.3 PK			1.17 H	318	81.4	34.9
4	*2412.00	106.7 AV			1.17 H	318	71.8	34.9
5	4824.00	52.1 PK	74.0	-21.9	1.54 H	52	40.6	11.5
6	4824.00	38.9 AV	54.0	-15.1	1.54 H	52	27.4	11.5
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	2390.00	66.6 PK	74.0	-7.4	2.30 V	24	31.6	35.0
2	2390.00	53.3 AV	54.0	-0.7	2.30 V	24	18.3	35.0
3	*2412.00	116.4 PK			2.30 V	24	81.5	34.9
4	*2412.00	106.8 AV			2.30 V	24	71.9	34.9
5	4824.00	52.3 PK	74.0	-21.7	1.66 V	8	40.8	11.5
6	4824.00	39.3 AV	54.0	-14.7	1.66 V	8	27.8	11.5

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.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11g	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Rex Wang		

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	*2437.00	120.5 PK			1.30 H	321	85.6	34.9
2	*2437.00	110.9 AV			1.30 H	321	76.0	34.9
3	2483.50	64.2 PK	74.0	-9.8	1.30 H	321	29.3	34.9
4	2483.50	50.3 AV	54.0	-3.7	1.30 H	321	15.4	34.9
5	4874.00	52.5 PK	74.0	-21.5	1.55 H	64	41.0	11.5
6	4874.00	39.4 AV	54.0	-14.6	1.55 H	64	27.9	11.5
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	*2437.00	120.7 PK			2.52 V	24	85.8	34.9
2	*2437.00	111.1 AV			2.52 V	24	76.2	34.9
3	2483.50	69.5 PK	74.0	-4.5	2.52 V	24	34.6	34.9
4	2483.50	53.3 AV	54.0	-0.7	2.52 V	24	18.4	34.9
5	4874.00	52.9 PK	74.0	-21.1	1.65 V	10	41.4	11.5
6	4874.00	39.8 AV	54.0	-14.2	1.65 V	10	28.3	11.5

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.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11g	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Rex Wang		

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	*2462.00	115.4 PK			1.52 H	355	80.5	34.9
2	*2462.00	105.2 AV			1.52 H	355	70.3	34.9
3	2483.50	66.2 PK	74.0	-7.8	1.52 H	355	31.3	34.9
4	2483.50	52.3 AV	54.0	-1.7	1.52 H	355	17.4	34.9
5	4924.00	52.3 PK	74.0	-21.7	1.58 H	55	40.8	11.5
6	4924.00	39.1 AV	54.0	-14.9	1.58 H	55	27.6	11.5
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	*2462.00	116.6 PK			2.42 V	24	81.7	34.9
2	*2462.00	106.9 AV			2.42 V	24	72.0	34.9
3	2483.50	66.4 PK	74.0	-7.6	2.42 V	24	31.5	34.9
4	2483.50	52.4 AV	54.0	-1.6	2.42 V	24	17.5	34.9
5	4924.00	52.5 PK	74.0	-21.5	1.68 V	12	41.0	11.5
6	4924.00	39.2 AV	54.0	-14.8	1.68 V	12	27.7	11.5

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.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE20)	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Rex Wang		

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	2390.00	67.2 PK	74.0	-6.8	1.18 H	321	32.2	35.0
2	2390.00	53.0 AV	54.0	-1.0	1.18 H	321	18.0	35.0
3	*2412.00	118.5 PK			1.18 H	321	83.6	34.9
4	*2412.00	105.4 AV			1.18 H	321	70.5	34.9
5	4824.00	51.9 PK	74.0	-22.1	1.54 H	53	40.4	11.5
6	4824.00	39.1 AV	54.0	-14.9	1.54 H	53	27.6	11.5
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	2390.00	65.6 PK	74.0	-8.4	2.51 V	14	30.6	35.0
2	2390.00	52.5 AV	54.0	-1.5	2.51 V	14	17.5	35.0
3	*2412.00	119.1 PK			2.51 V	14	84.2	34.9
4	*2412.00	105.9 AV			2.51 V	14	71.0	34.9
5	4824.00	52.1 PK	74.0	-21.9	1.65 V	10	40.6	11.5
6	4824.00	39.2 AV	54.0	-14.8	1.65 V	10	27.7	11.5

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.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE20)	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Rex Wang		

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	*2437.00	122.7 PK			1.32 H	321	87.8	34.9
2	*2437.00	110.0 AV			1.32 H	321	75.1	34.9
3	2483.50	63.9 PK	74.0	-10.1	1.32 H	321	29.0	34.9
4	2483.50	49.3 AV	54.0	-4.7	1.32 H	321	14.4	34.9
5	4874.00	51.7 PK	74.0	-22.3	1.56 H	64	40.2	11.5
6	4874.00	38.9 AV	54.0	-15.1	1.56 H	64	27.4	11.5
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	*2437.00	123.6 PK			1.77 V	22	88.7	34.9
2	*2437.00	110.6 AV			1.77 V	22	75.7	34.9
3	2483.50	70.4 PK	74.0	-3.6	1.77 V	22	35.5	34.9
4	2483.50	53.2 AV	54.0	-0.8	1.77 V	22	18.3	34.9
5	4874.00	51.9 PK	74.0	-22.1	1.51 V	7	40.4	11.5
6	4874.00	38.9 AV	54.0	-15.1	1.51 V	7	27.4	11.5

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.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE20)	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Rex Wang		

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	*2462.00	116.7 PK			1.52 H	13	81.8	34.9
2	*2462.00	104.3 AV			1.52 H	13	69.4	34.9
3	2483.50	64.9 PK	74.0	-9.1	1.52 H	13	30.0	34.9
4	2483.50	51.0 AV	54.0	-3.0	1.52 H	13	16.1	34.9
5	4924.00	52.1 PK	74.0	-21.9	1.55 H	50	40.6	11.5
6	4924.00	39.1 AV	54.0	-14.9	1.55 H	50	27.6	11.5
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	*2462.00	118.5 PK			1.91 V	34	83.6	34.9
2	*2462.00	104.9 AV			1.91 V	34	70.0	34.9
3	2483.50	68.9 PK	74.0	-5.1	1.91 V	34	34.0	34.9
4	2483.50	53.2 AV	54.0	-0.8	1.91 V	34	18.3	34.9
5	4924.00	52.5 PK	74.0	-21.5	1.58 V	7	41.0	11.5
6	4924.00	39.4 AV	54.0	-14.6	1.58 V	7	27.9	11.5

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.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE40)	Channel	CH 3 : 2422 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Rex Wang		

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	2390.00	67.0 PK	74.0	-7.0	1.15 H	315	32.0	35.0
2	2390.00	53.0 AV	54.0	-1.0	1.15 H	315	18.0	35.0
3	*2422.00	116.0 PK			1.15 H	315	81.1	34.9
4	*2422.00	102.6 AV			1.15 H	315	67.7	34.9
5	4844.00	52.6 PK	74.0	-21.4	1.54 H	55	41.0	11.6
6	4844.00	39.1 AV	54.0	-14.9	1.54 H	55	27.5	11.6
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	2390.00	69.4 PK	74.0	-4.6	1.82 V	26	34.4	35.0
2	2390.00	50.8 AV	54.0	-3.2	1.82 V	26	15.8	35.0
3	*2422.00	117.1 PK			1.82 V	26	82.2	34.9
4	*2422.00	104.0 AV			1.82 V	26	69.1	34.9
5	4844.00	52.8 PK	74.0	-21.2	1.56 V	8	41.2	11.6
6	4844.00	39.2 AV	54.0	-14.8	1.56 V	8	27.6	11.6

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.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE40)	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Rex Wang		

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	*2437.00	115.4 PK			1.54 H	325	80.5	34.9
2	*2437.00	102.7 AV			1.54 H	325	67.8	34.9
3	2483.50	62.2 PK	74.0	-11.8	1.54 H	325	27.3	34.9
4	2483.50	48.9 AV	54.0	-5.1	1.54 H	325	14.0	34.9
5	4874.00	52.1 PK	74.0	-21.9	1.55 H	60	40.6	11.5
6	4874.00	38.9 AV	54.0	-15.1	1.55 H	60	27.4	11.5
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	*2437.00	116.3 PK			2.00 V	26	81.4	34.9
2	*2437.00	104.2 AV			2.00 V	26	69.3	34.9
3	2483.50	68.5 PK	74.0	-5.5	2.00 V	26	33.6	34.9
4	2483.50	52.0 AV	54.0	-2.0	2.00 V	26	17.1	34.9
5	4874.00	52.5 PK	74.0	-21.5	1.55 V	7	41.0	11.5
6	4874.00	39.1 AV	54.0	-14.9	1.55 V	7	27.6	11.5

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.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE40)	Channel	CH 9 : 2452 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Rex Wang		

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	*2452.00	115.5 PK			1.50 H	327	80.6	34.9
2	*2452.00	102.5 AV			1.50 H	327	67.6	34.9
3	2483.50	66.2 PK	74.0	-7.8	1.50 H	327	31.3	34.9
4	2483.50	51.6 AV	54.0	-2.4	1.50 H	327	16.7	34.9
5	4904.00	51.7 PK	74.0	-22.3	1.56 H	52	40.3	11.4
6	4904.00	38.7 AV	54.0	-15.3	1.56 H	52	27.3	11.4
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	*2452.00	115.9 PK			2.00 V	27	81.0	34.9
2	*2452.00	104.0 AV			2.00 V	27	69.1	34.9
3	2483.50	73.0 PK	74.0	-1.0	2.00 V	27	38.1	34.9
4	2483.50	53.6 AV	54.0	-0.4	2.00 V	27	18.7	34.9
5	4904.00	52.0 PK	74.0	-22.0	1.55 V	8	40.6	11.4
6	4904.00	39.0 AV	54.0	-15.0	1.55 V	8	27.6	11.4

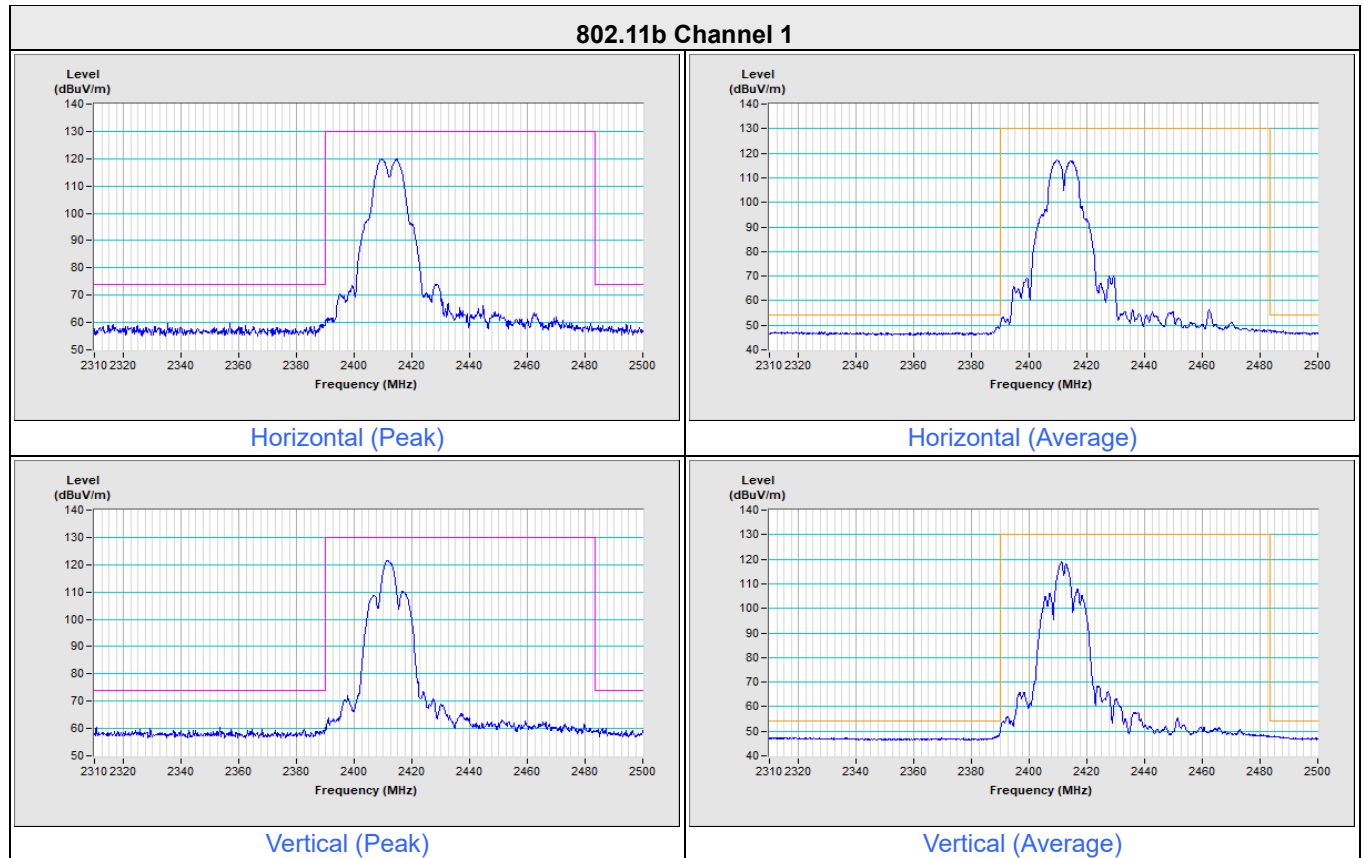
Remarks:

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.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

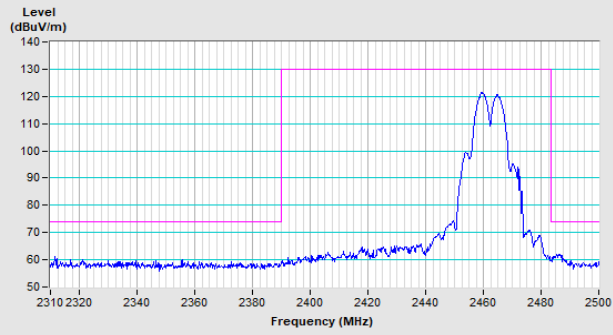
Plot of Band Edge

Traffic Radio (Mode A)

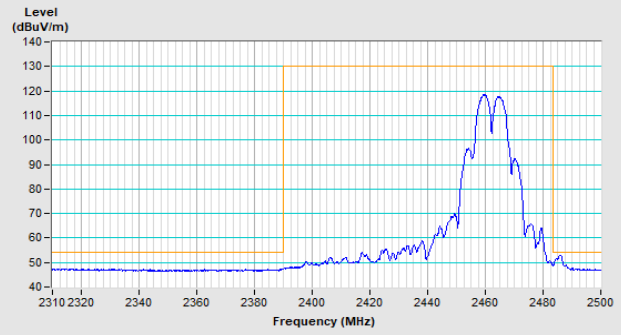
Frequency Range	2.31 GHz ~ 2.5 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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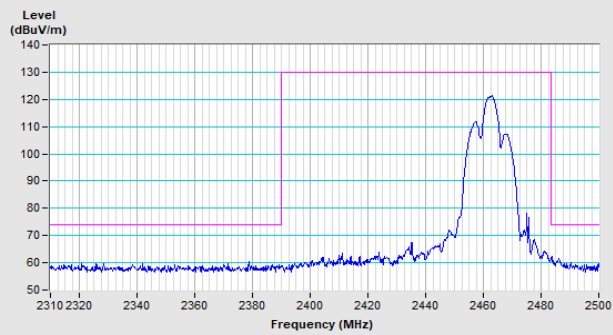
802.11b Channel 11



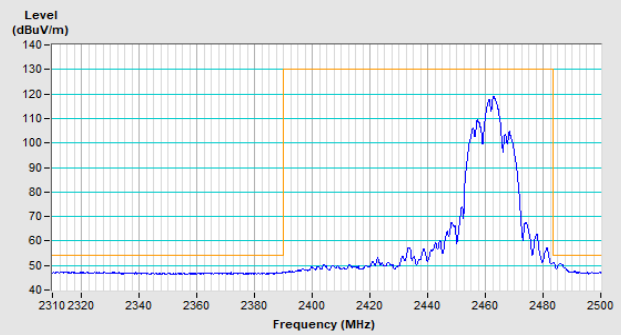
Horizontal (Peak)



Horizontal (Average)



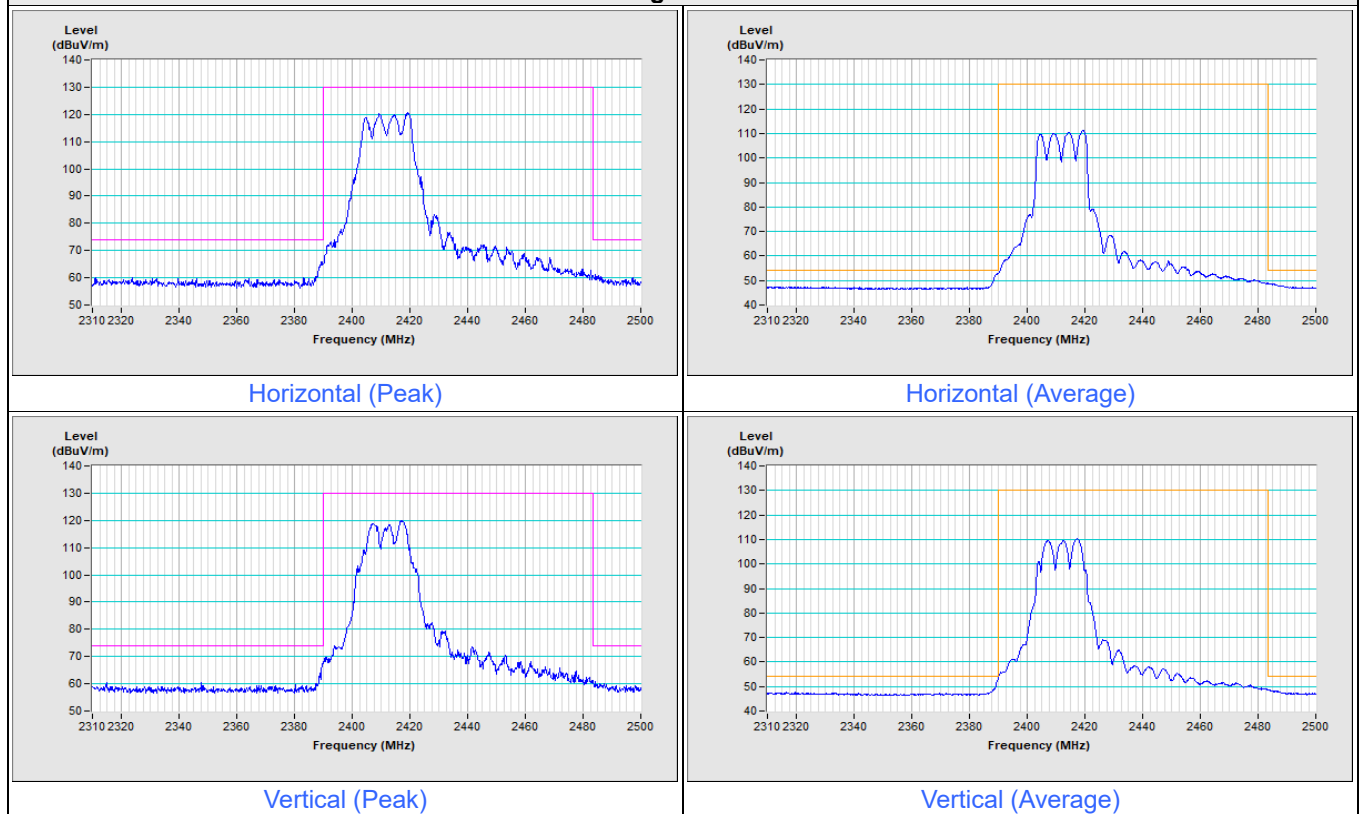
Vertical (Peak)



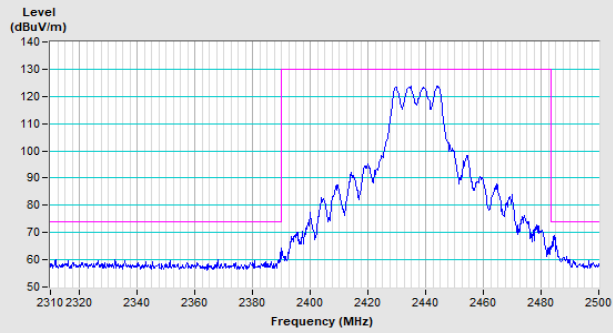
Vertical (Average)

Frequency Range	2.31 GHz ~ 2.5 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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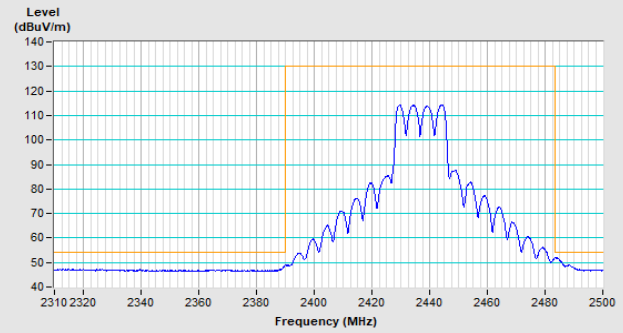
802.11g Channel 1



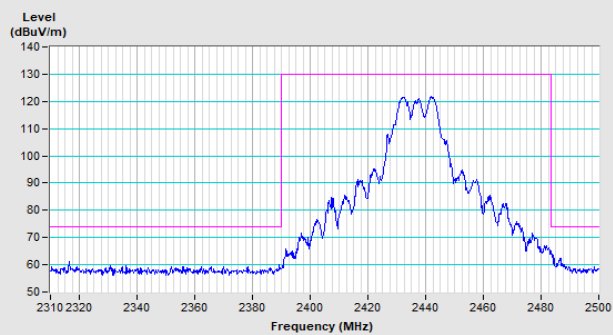
802.11g Channel 6



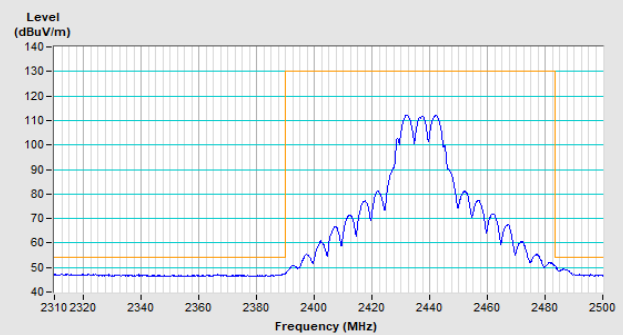
Horizontal (Peak)



Horizontal (Average)

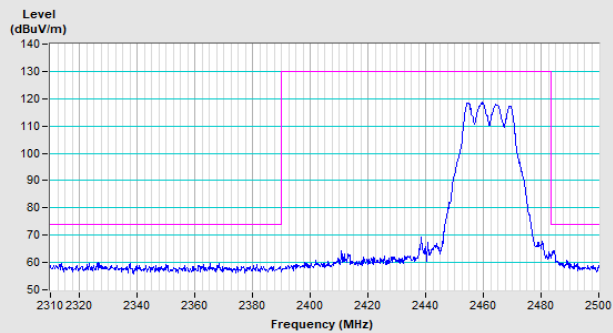


Vertical (Peak)

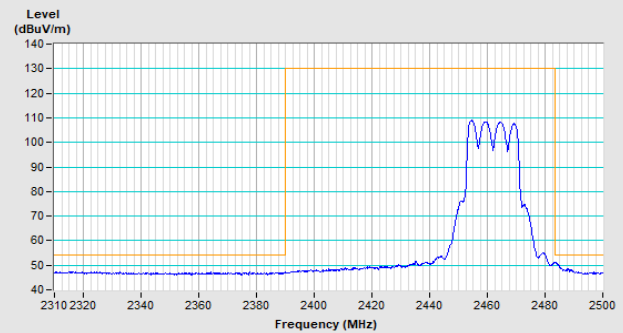


Vertical (Average)

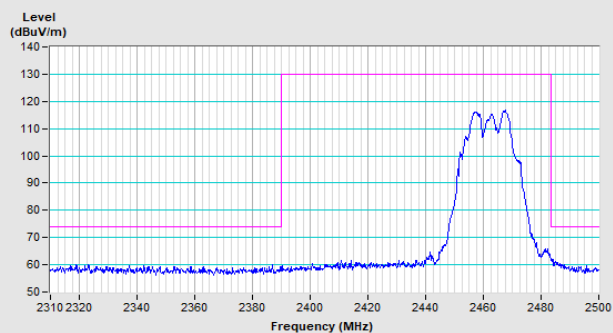
802.11g Channel 11



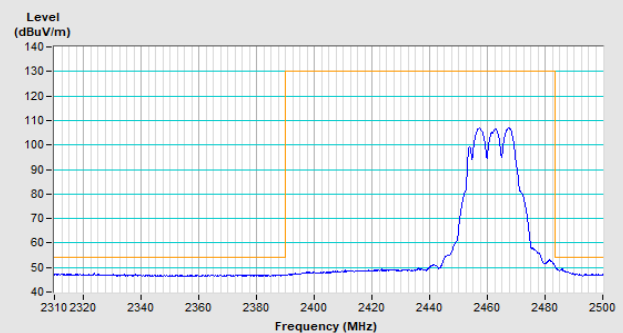
Horizontal (Peak)



Horizontal (Average)



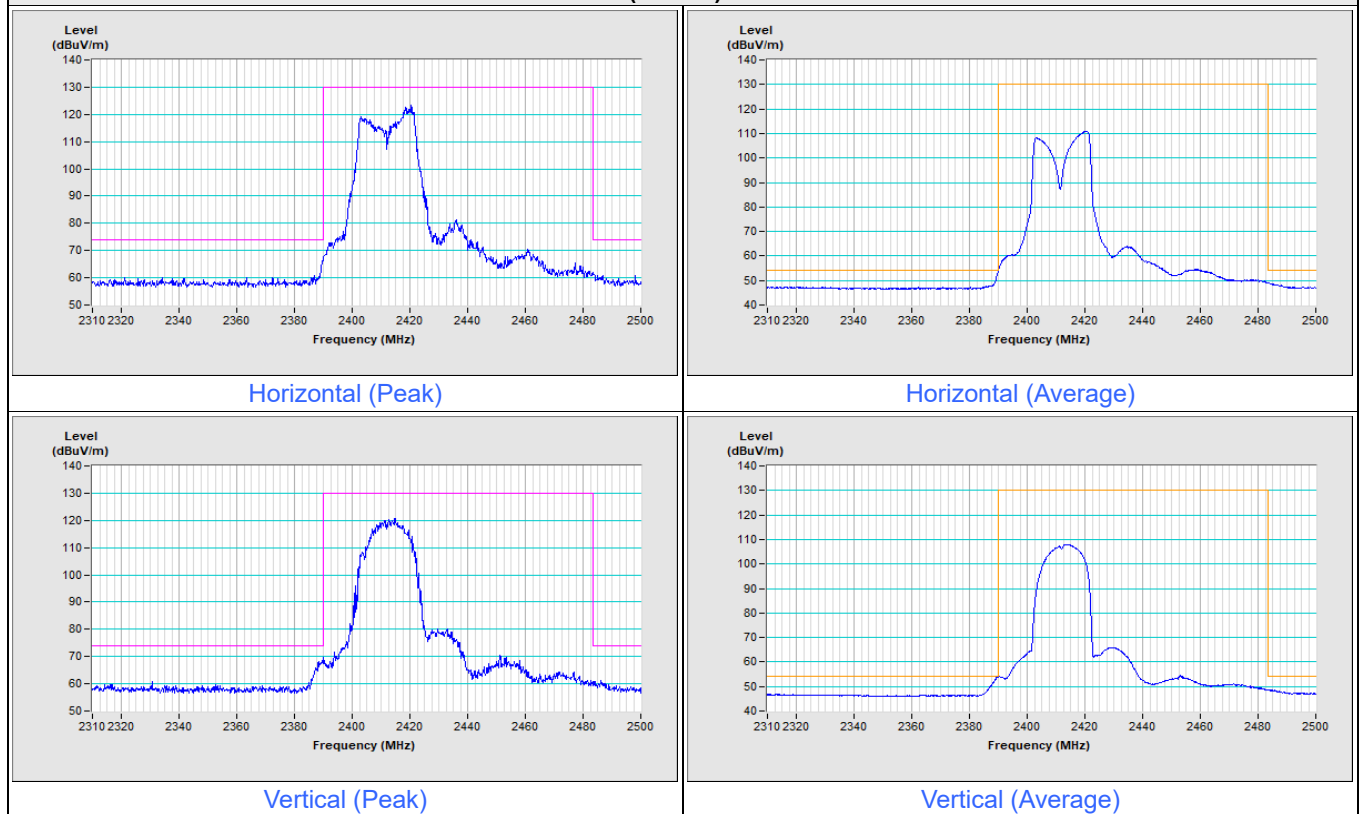
Vertical (Peak)



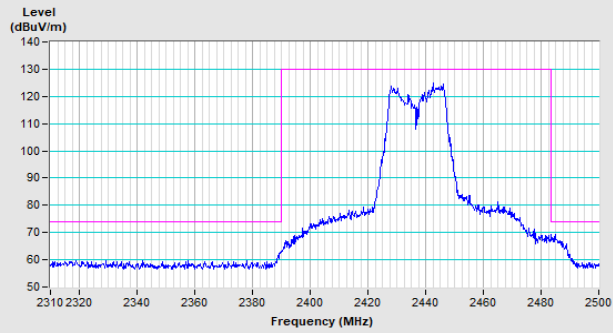
Vertical (Average)

Frequency Range	2.31 GHz ~ 2.5 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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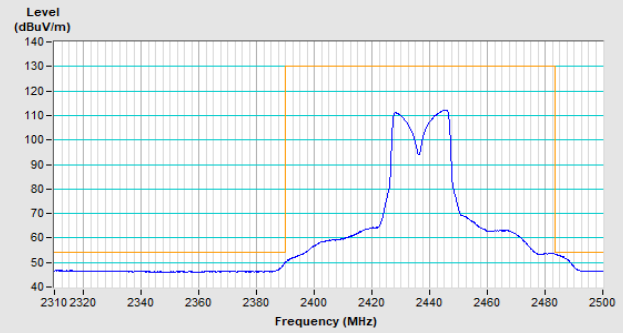
802.11be (EHT20) Channel 1



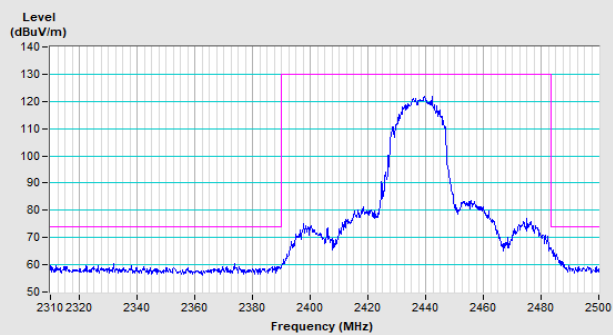
802.11be (EHT20) Channel 6



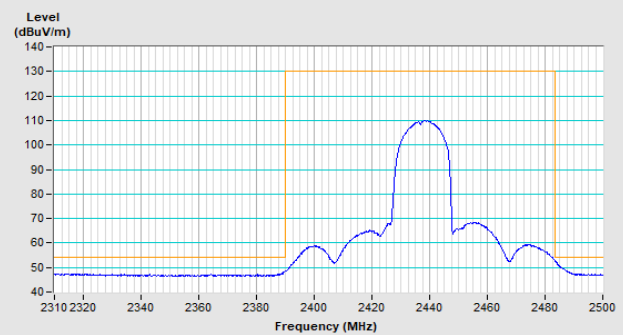
Horizontal (Peak)



Horizontal (Average)

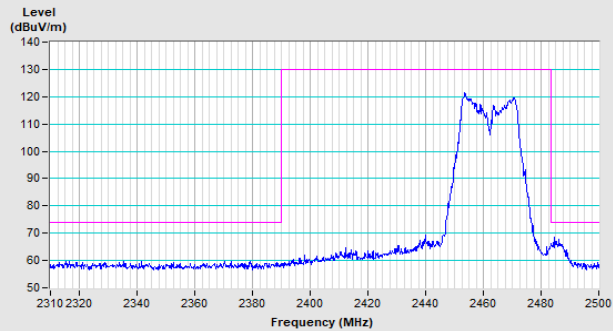


Vertical (Peak)

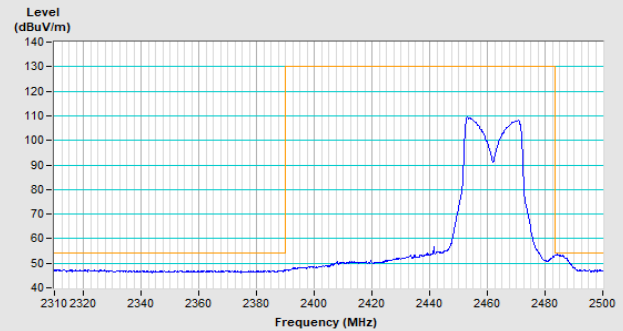


Vertical (Average)

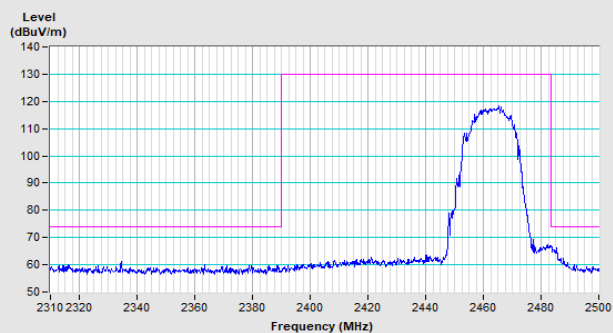
802.11be (EHT20) Channel 11



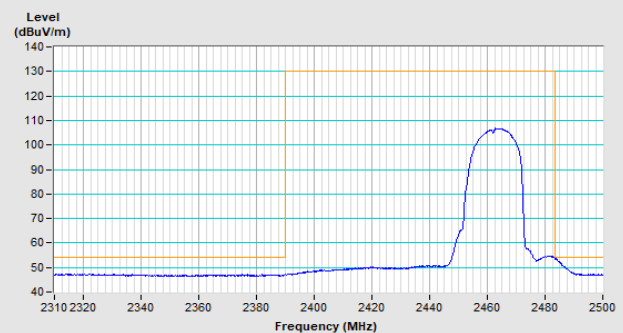
Horizontal (Peak)



Horizontal (Average)



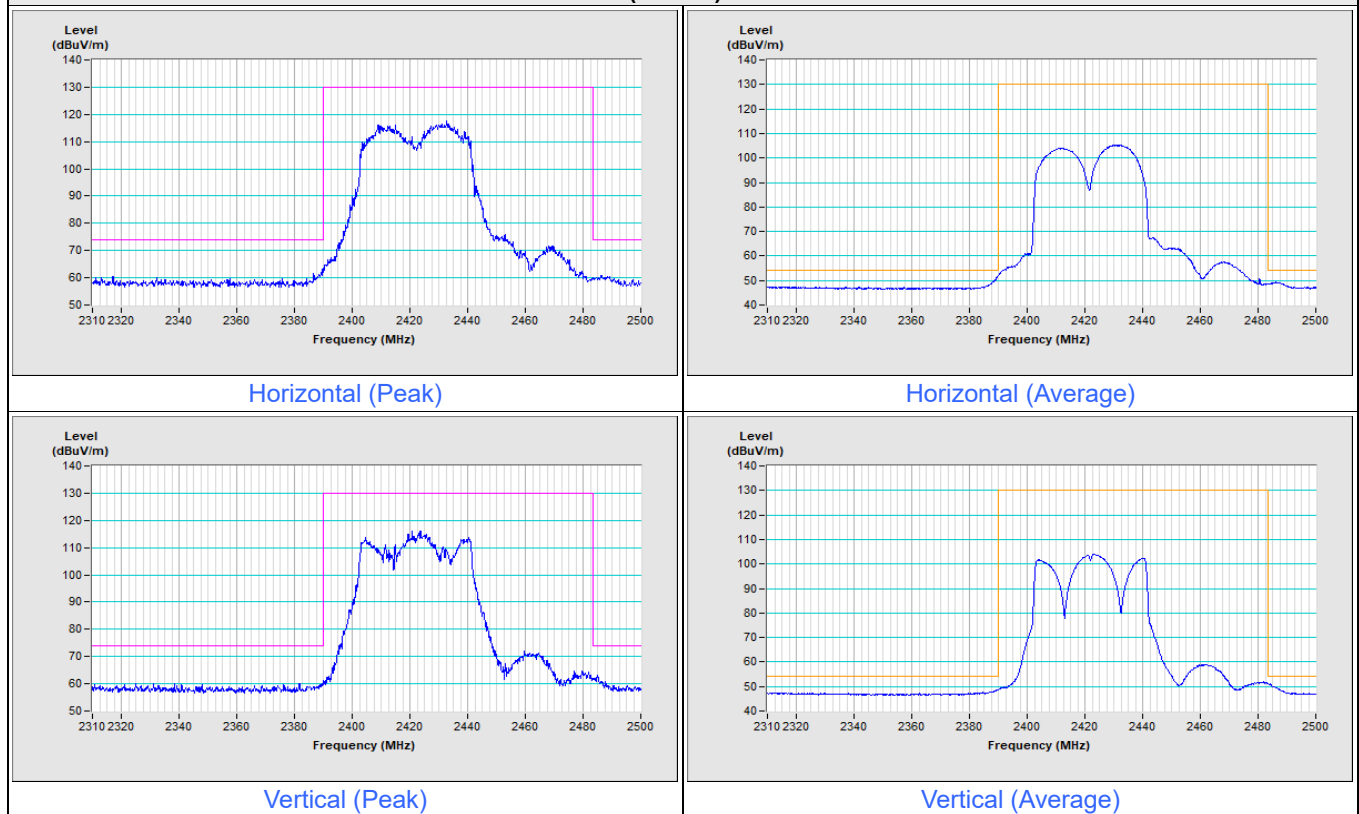
Vertical (Peak)



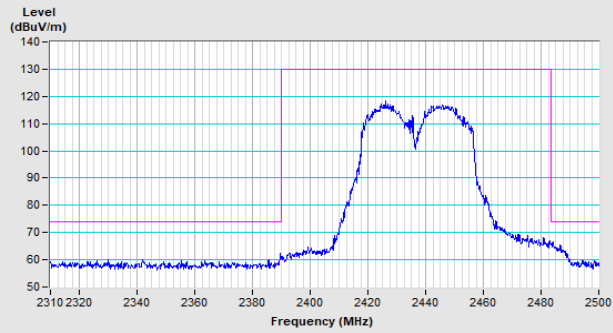
Vertical (Average)

Frequency Range	2.31 GHz ~ 2.5 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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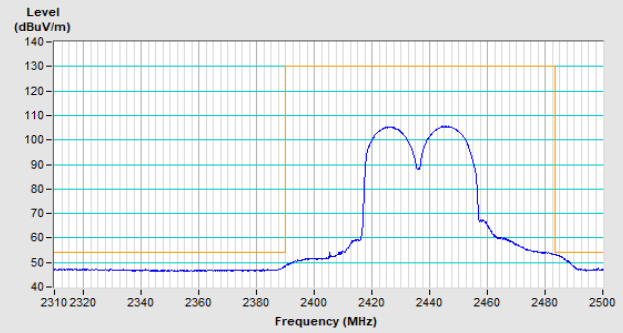
802.11be (EHT40) Channel 3



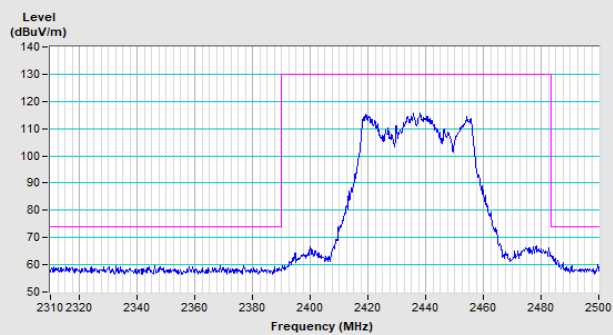
802.11be (EHT40) Channel 6



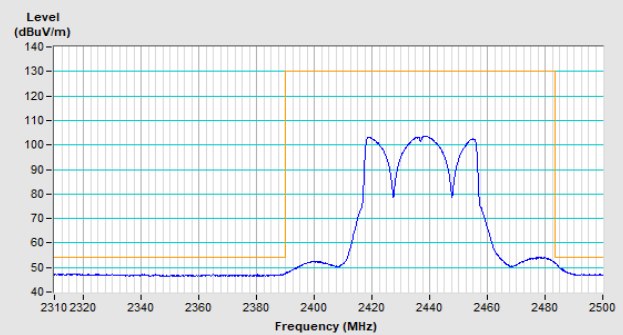
Horizontal (Peak)



Horizontal (Average)

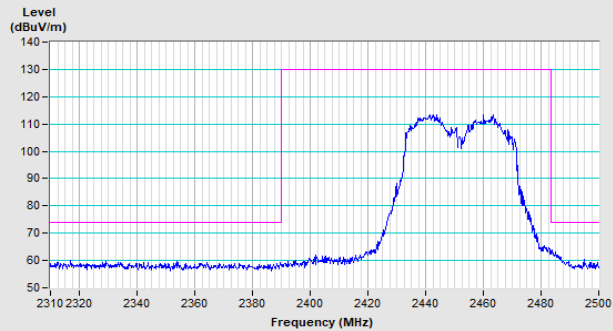


Vertical (Peak)

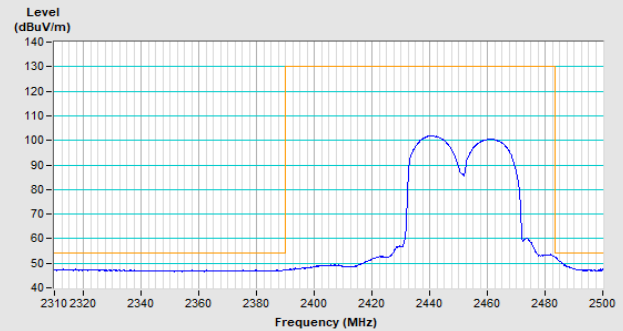


Vertical (Average)

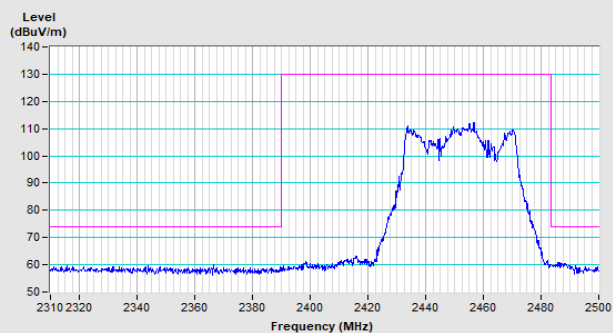
802.11be (EHT40) Channel 9



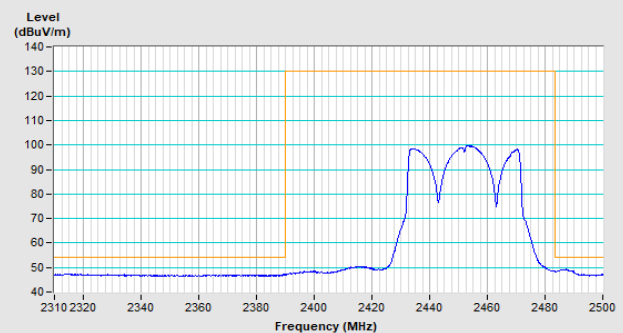
Horizontal (Peak)



Horizontal (Average)



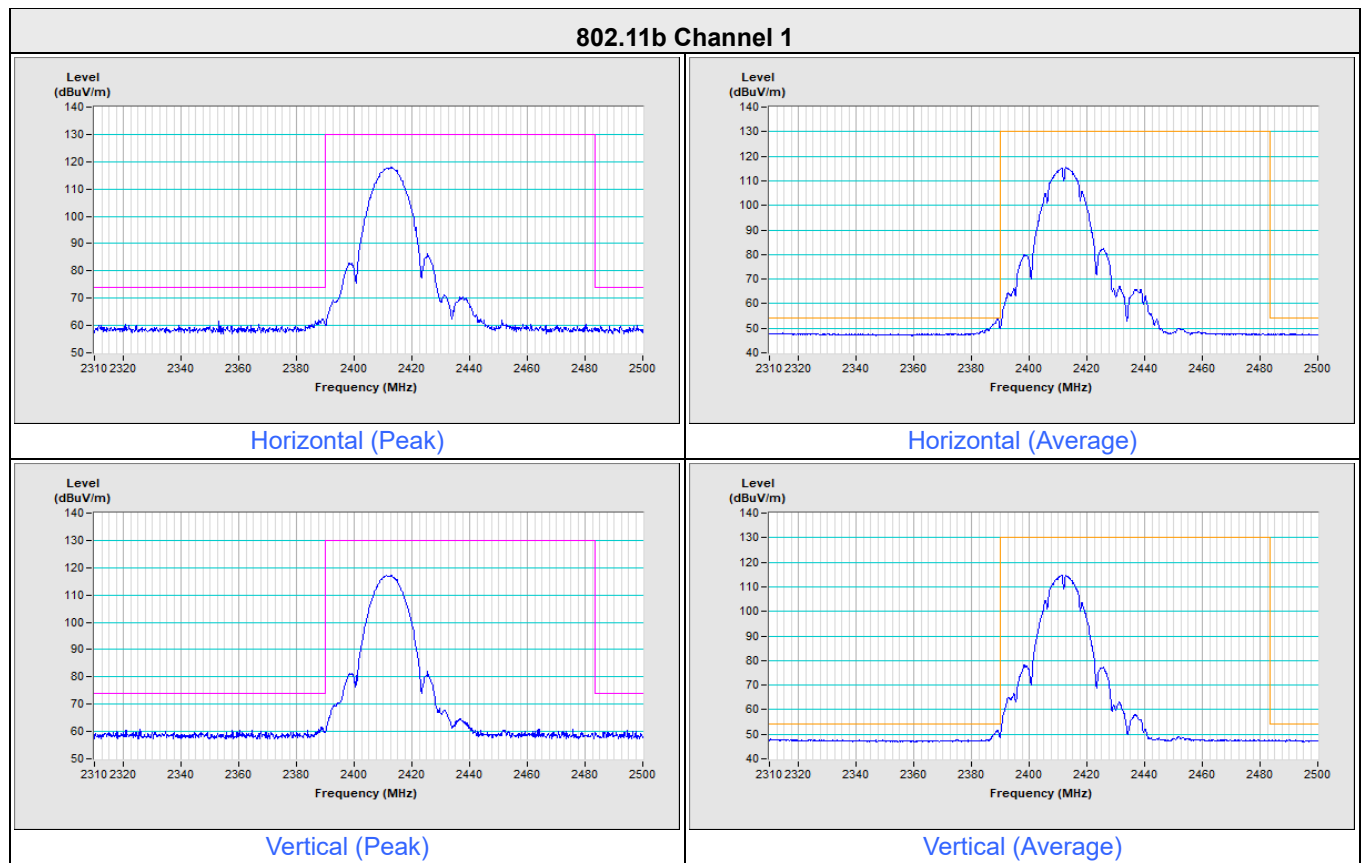
Vertical (Peak)



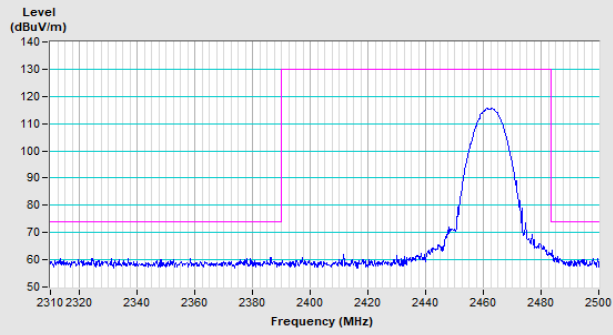
Vertical (Average)

Scan Radio (Mode B)

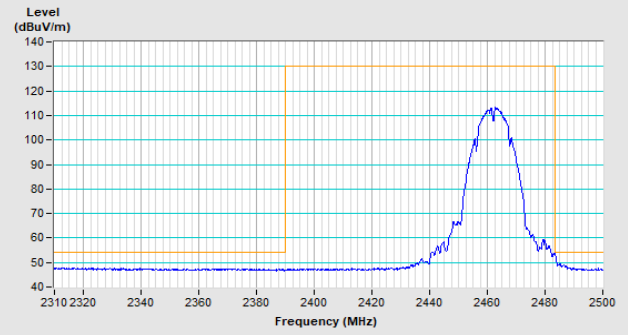
Frequency Range	2.31 GHz ~ 2.5 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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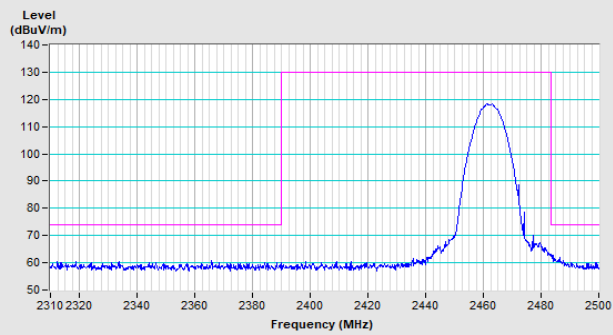
802.11b Channel 11



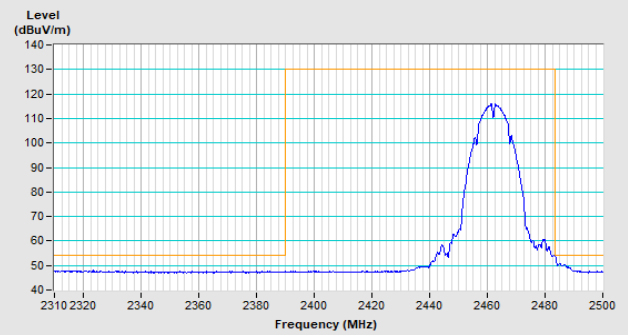
Horizontal (Peak)



Horizontal (Average)



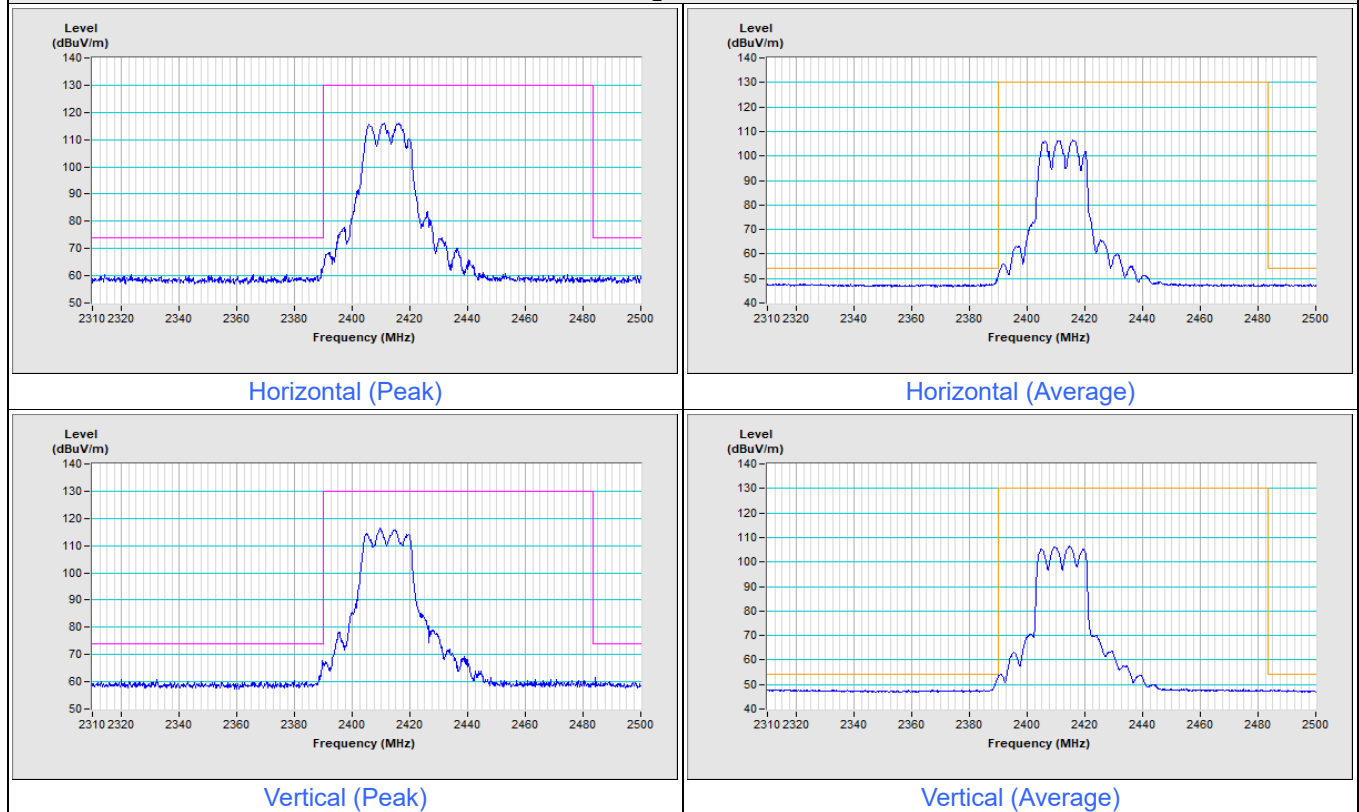
Vertical (Peak)



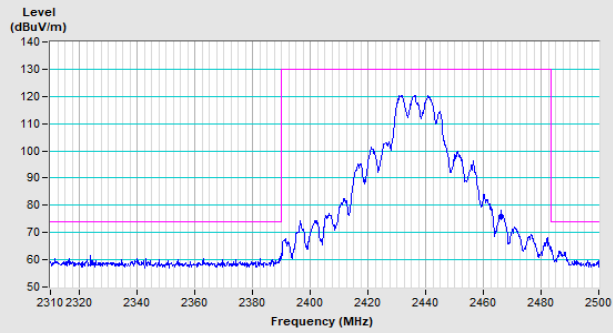
Vertical (Average)

Frequency Range	2.31 GHz ~ 2.5 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
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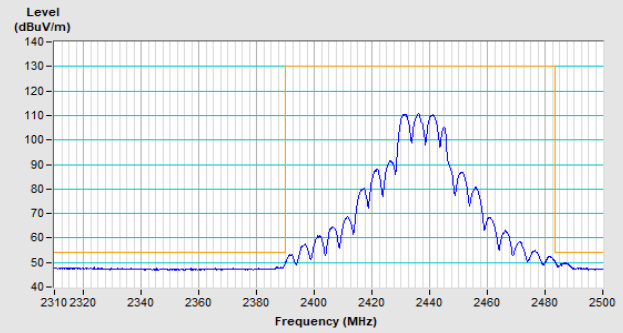
802.11g Channel 1



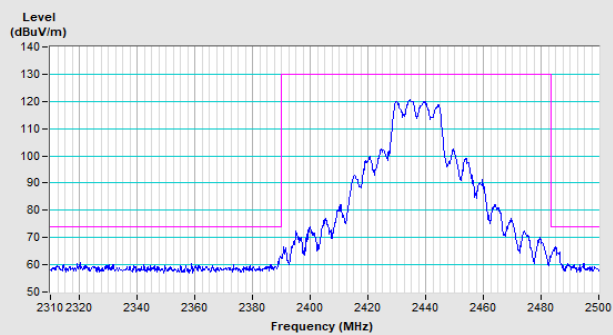
802.11g Channel 6



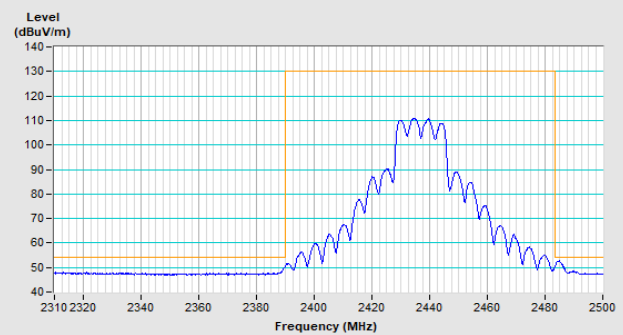
Horizontal (Peak)



Horizontal (Average)

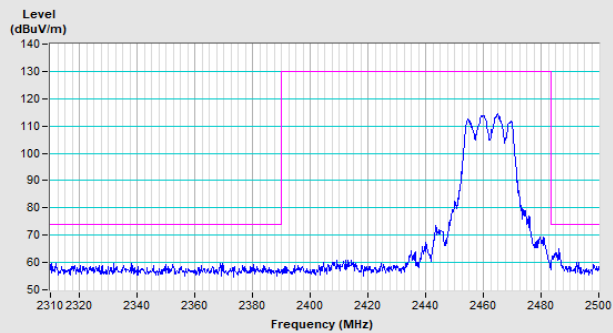


Vertical (Peak)

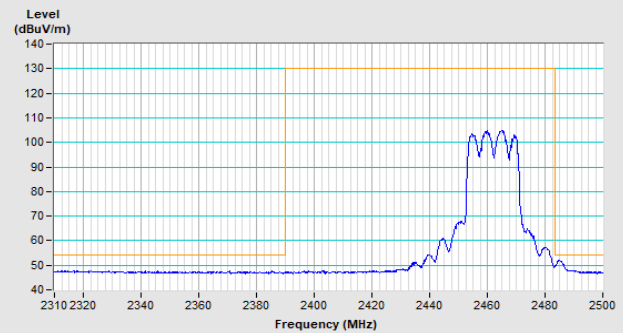


Vertical (Average)

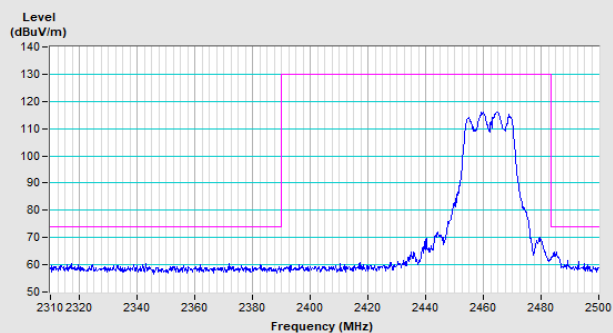
802.11g Channel 11



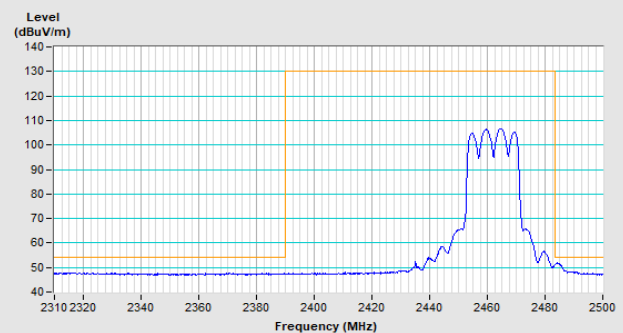
Horizontal (Peak)



Horizontal (Average)



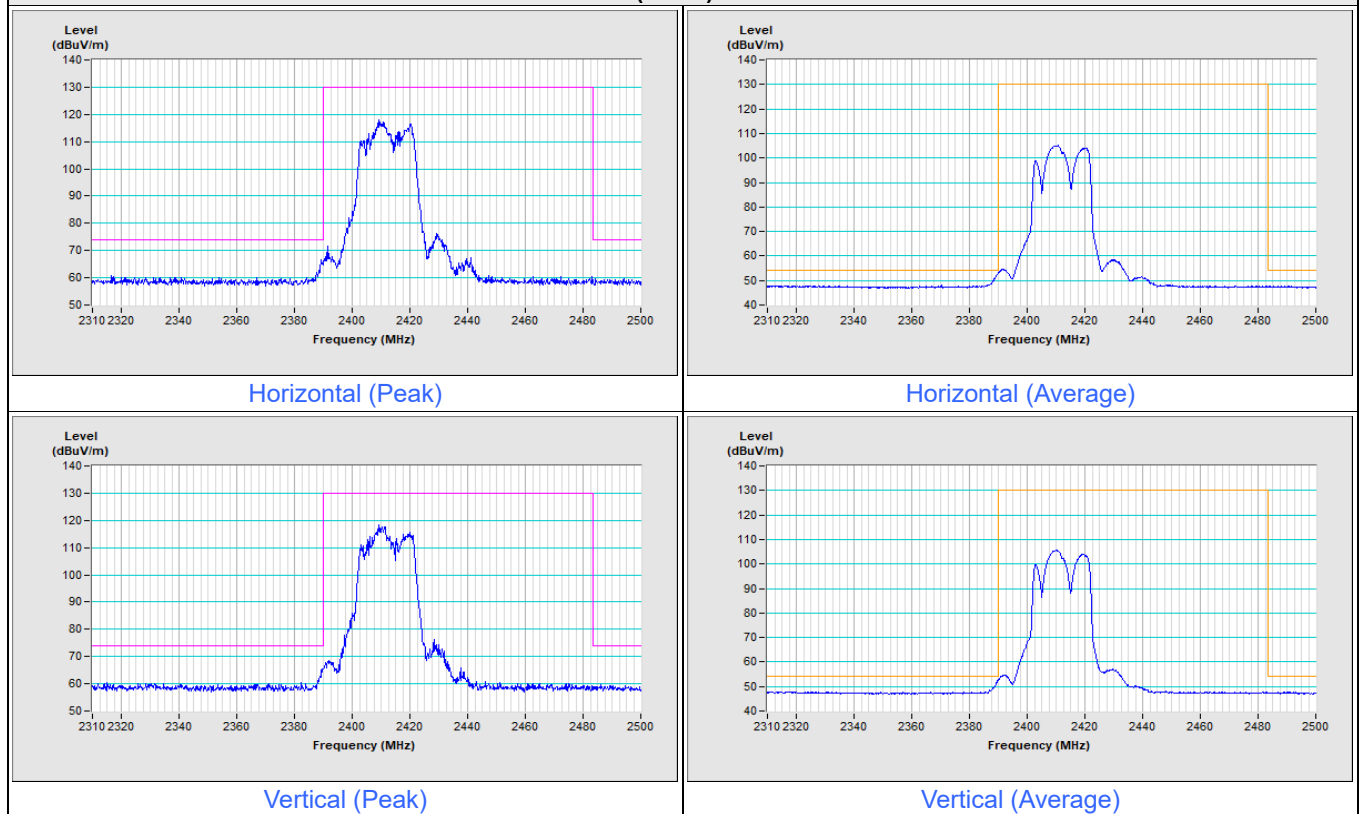
Vertical (Peak)



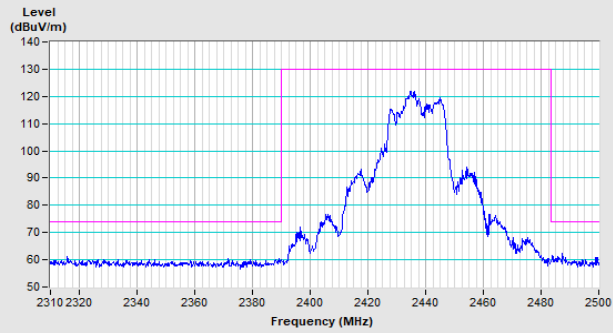
Vertical (Average)

Frequency Range	2.31 GHz ~ 2.5 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
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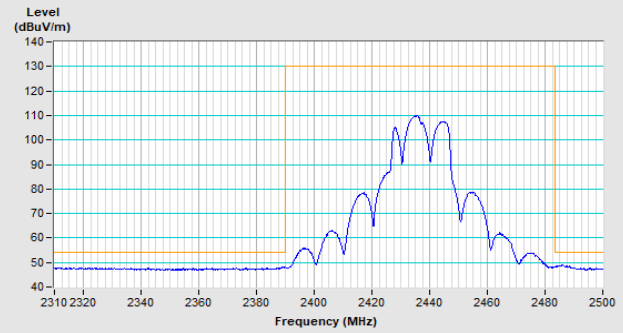
802.11ax (HE20) Channel 1



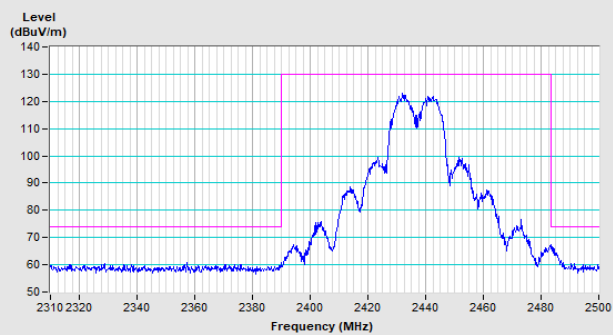
802.11ax (HE20) Channel 6



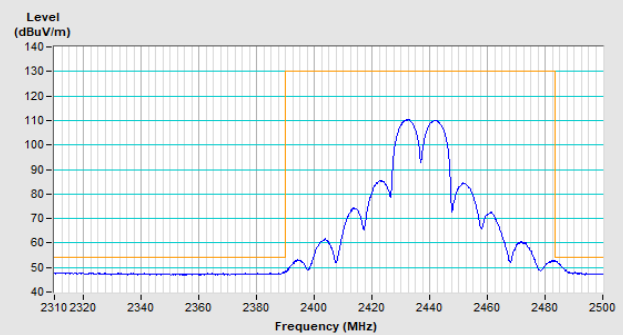
Horizontal (Peak)



Horizontal (Average)

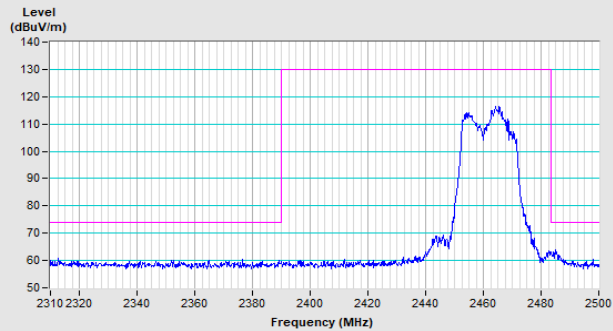


Vertical (Peak)

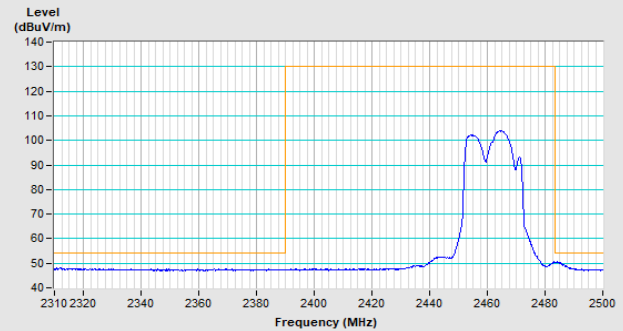


Vertical (Average)

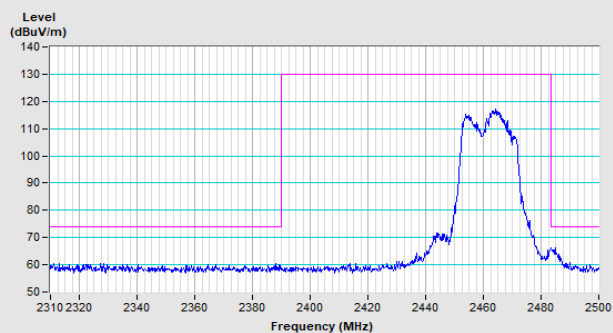
802.11ax (HE20) Channel 11



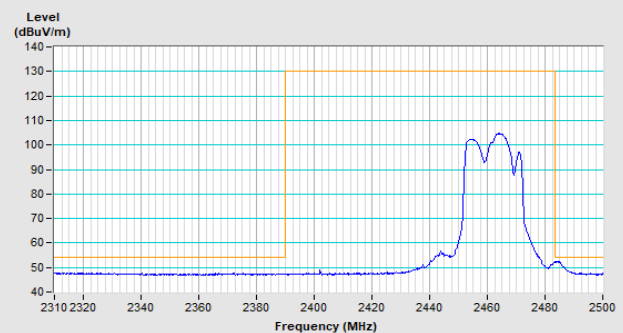
Horizontal (Peak)



Horizontal (Average)



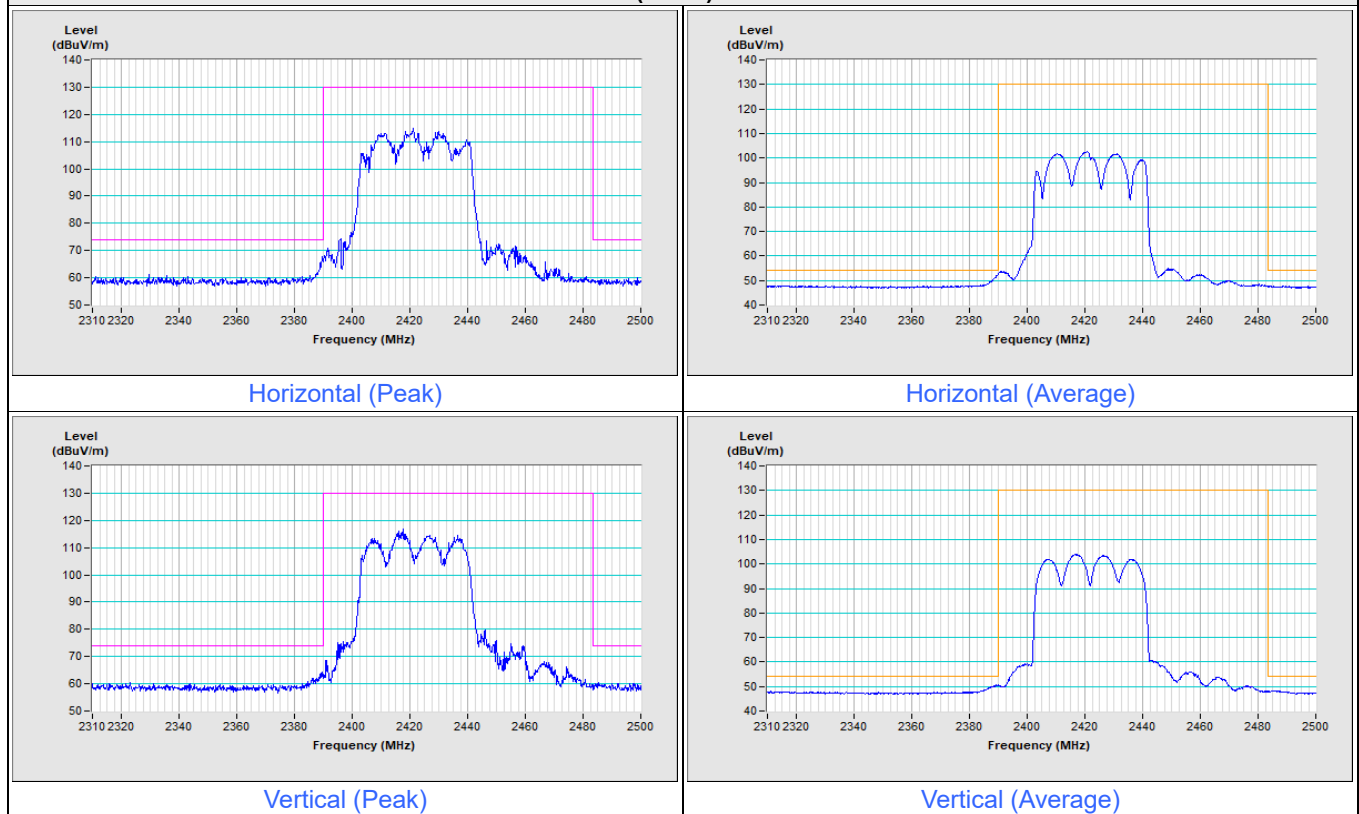
Vertical (Peak)



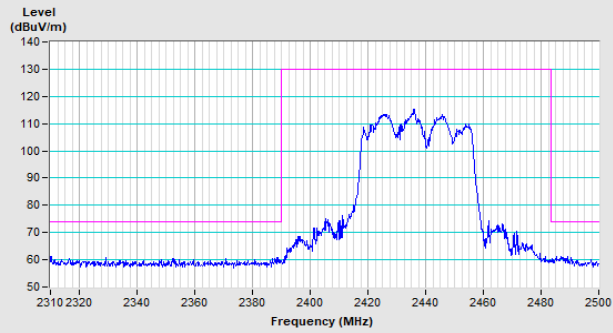
Vertical (Average)

Frequency Range	2.31 GHz ~ 2.5 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
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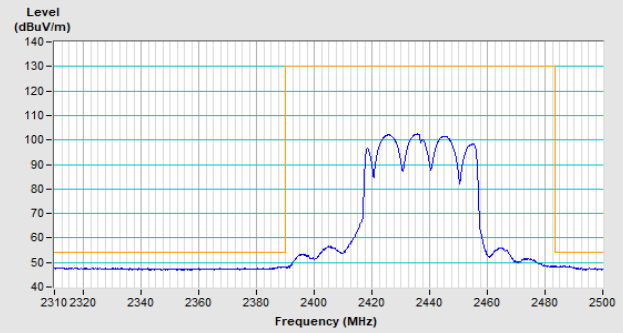
802.11ax (HE40) Channel 3



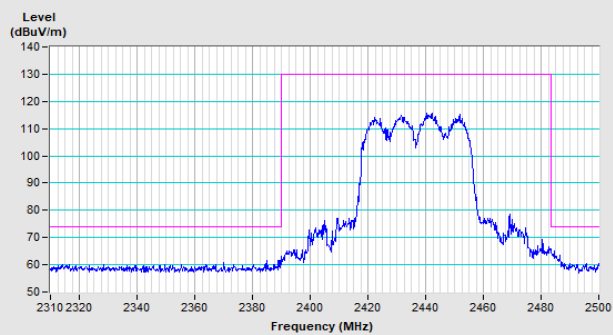
802.11ax (HE40) Channel 6



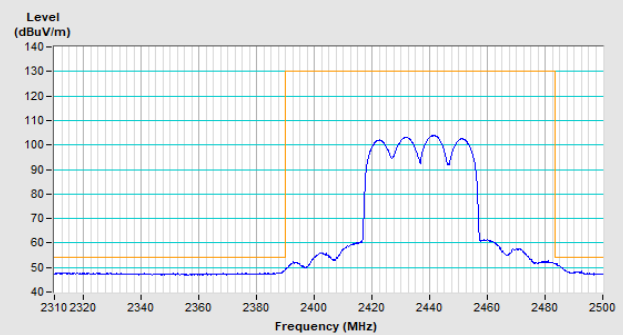
Horizontal (Peak)



Horizontal (Average)

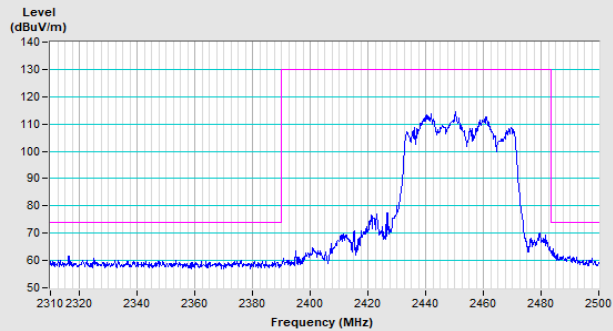


Vertical (Peak)

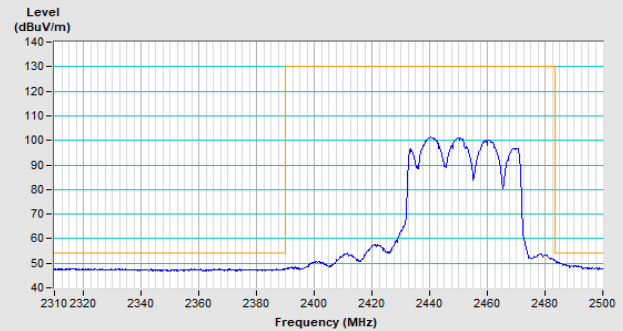


Vertical (Average)

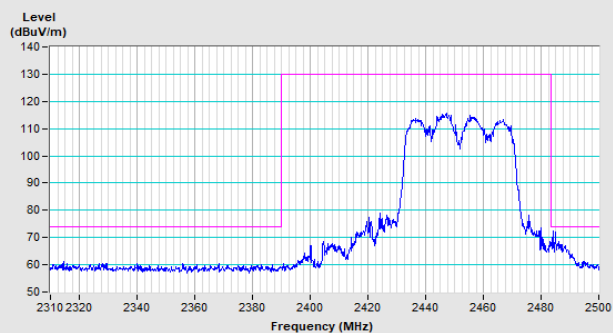
802.11ax (HE40) Channel 9



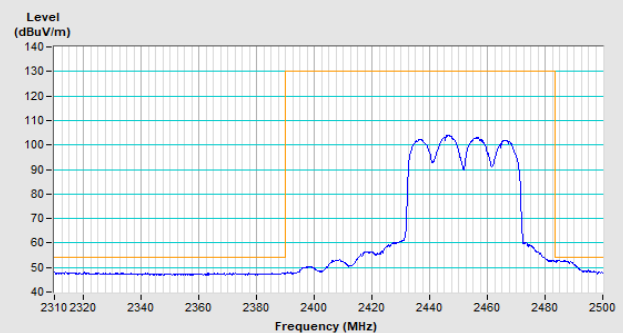
Horizontal (Peak)



Horizontal (Average)



Vertical (Peak)

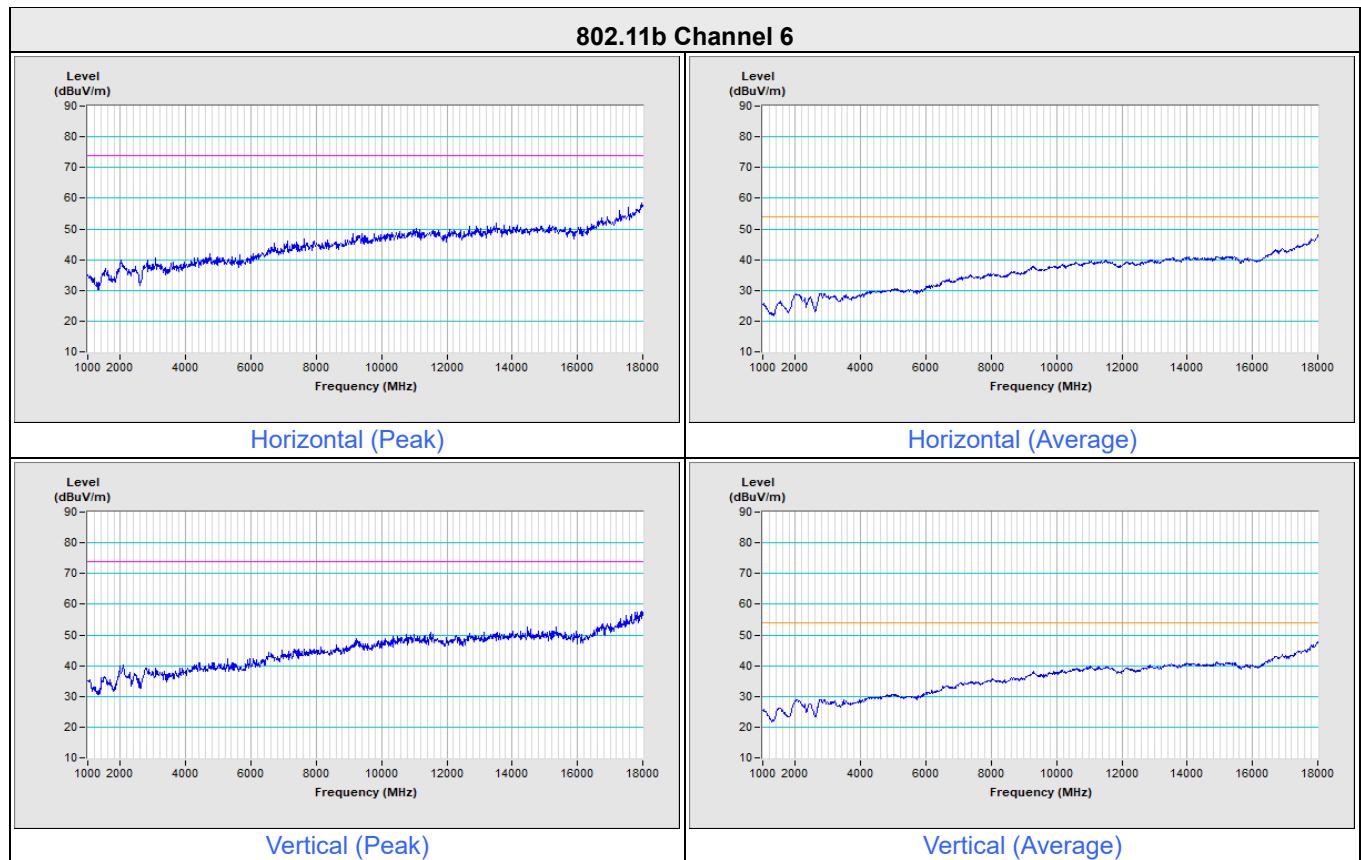


Vertical (Average)

Plot of Other Emission

Traffic Radio (Mode A)

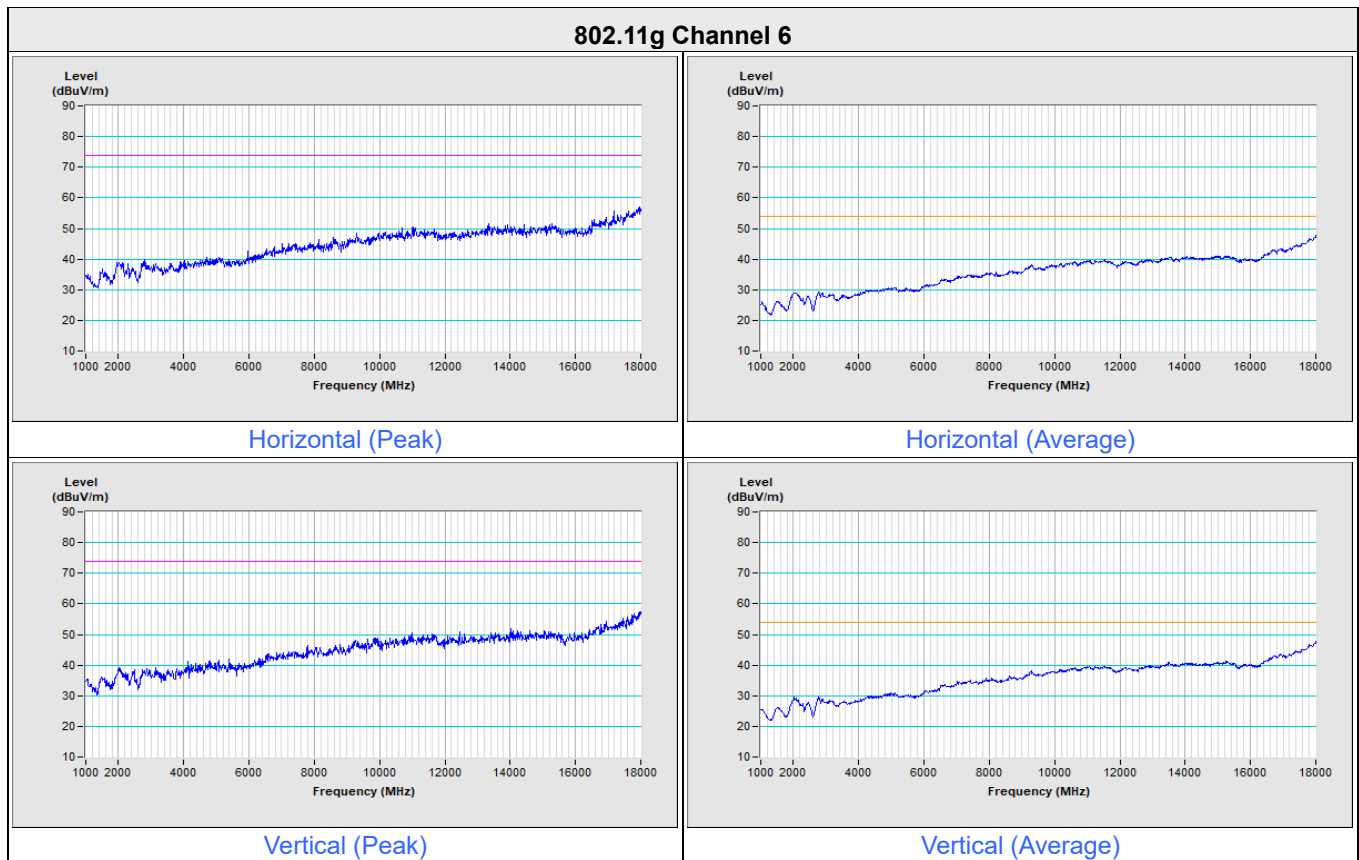
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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Notes:

1. For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.
2. The frequency range 18 GHz ~ 25 GHz: After investigation, no any emissions were found to exist, therefore they are not recorded in this report.

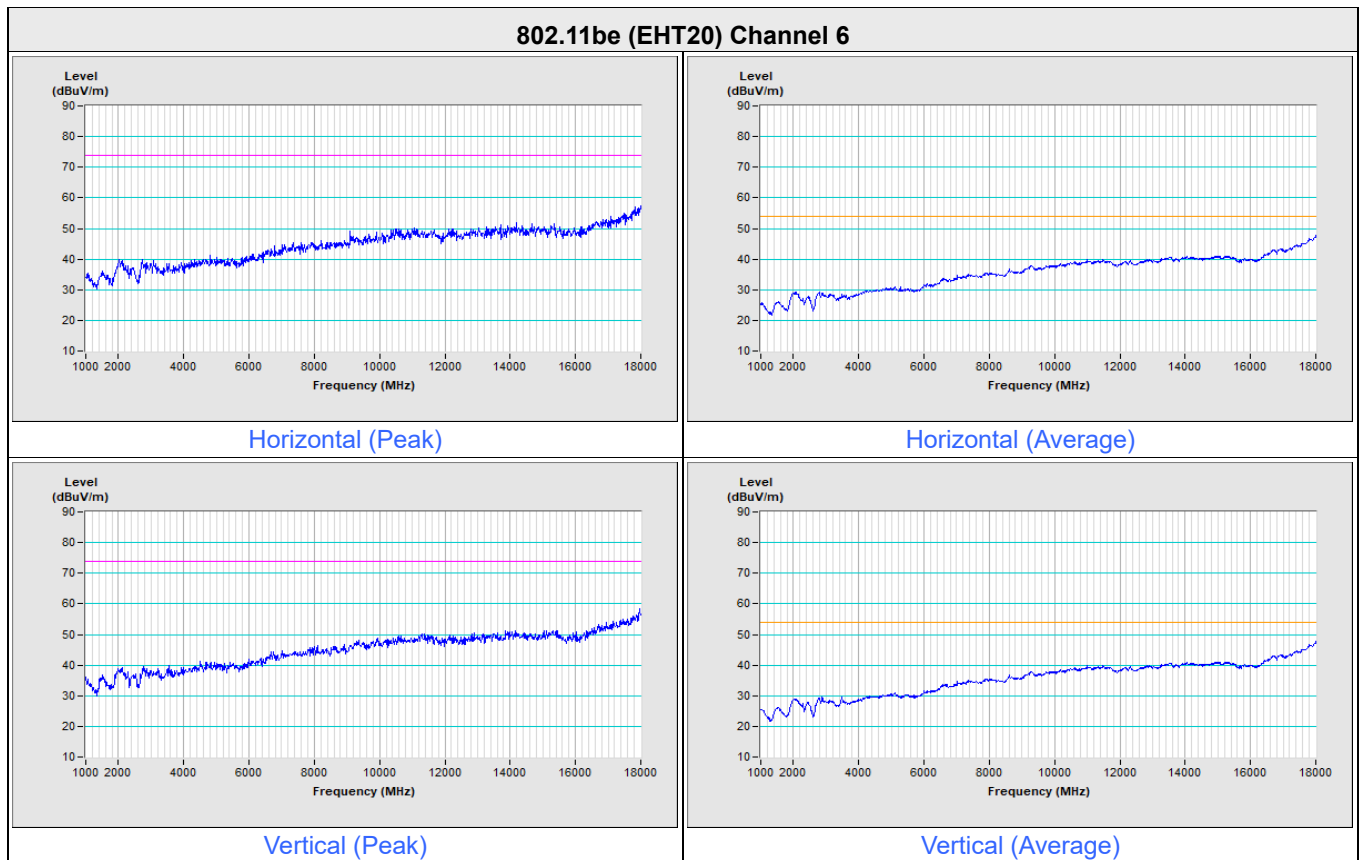
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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Notes:

1. For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.
2. The frequency range 18 GHz ~ 25 GHz: After investigation, no any emissions were found to exist, therefore they are not recorded in this report.

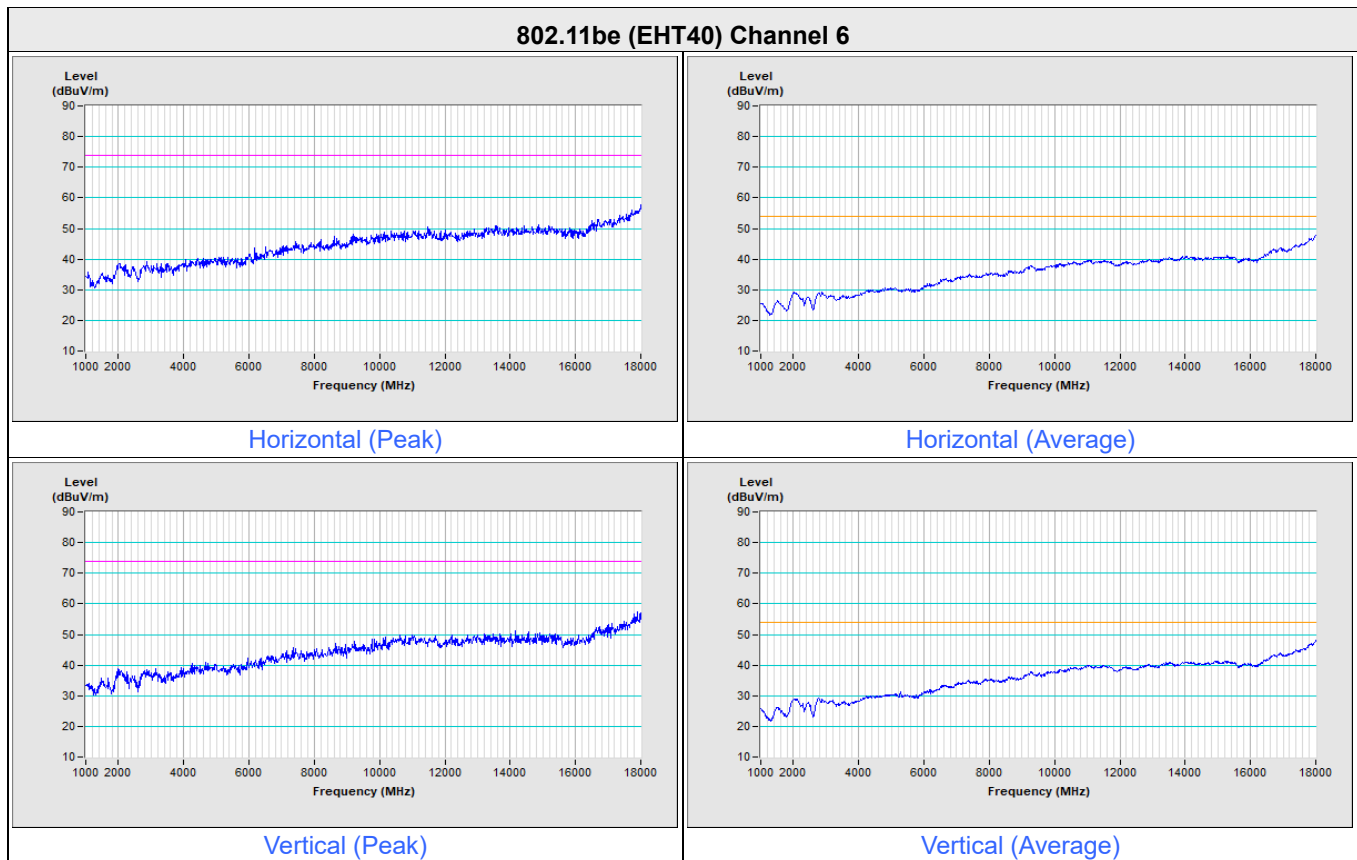
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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Notes:

1. For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.
2. The frequency range 18 GHz ~ 25 GHz: After investigation, no any emissions were found to exist, therefore they are not recorded in this report.

Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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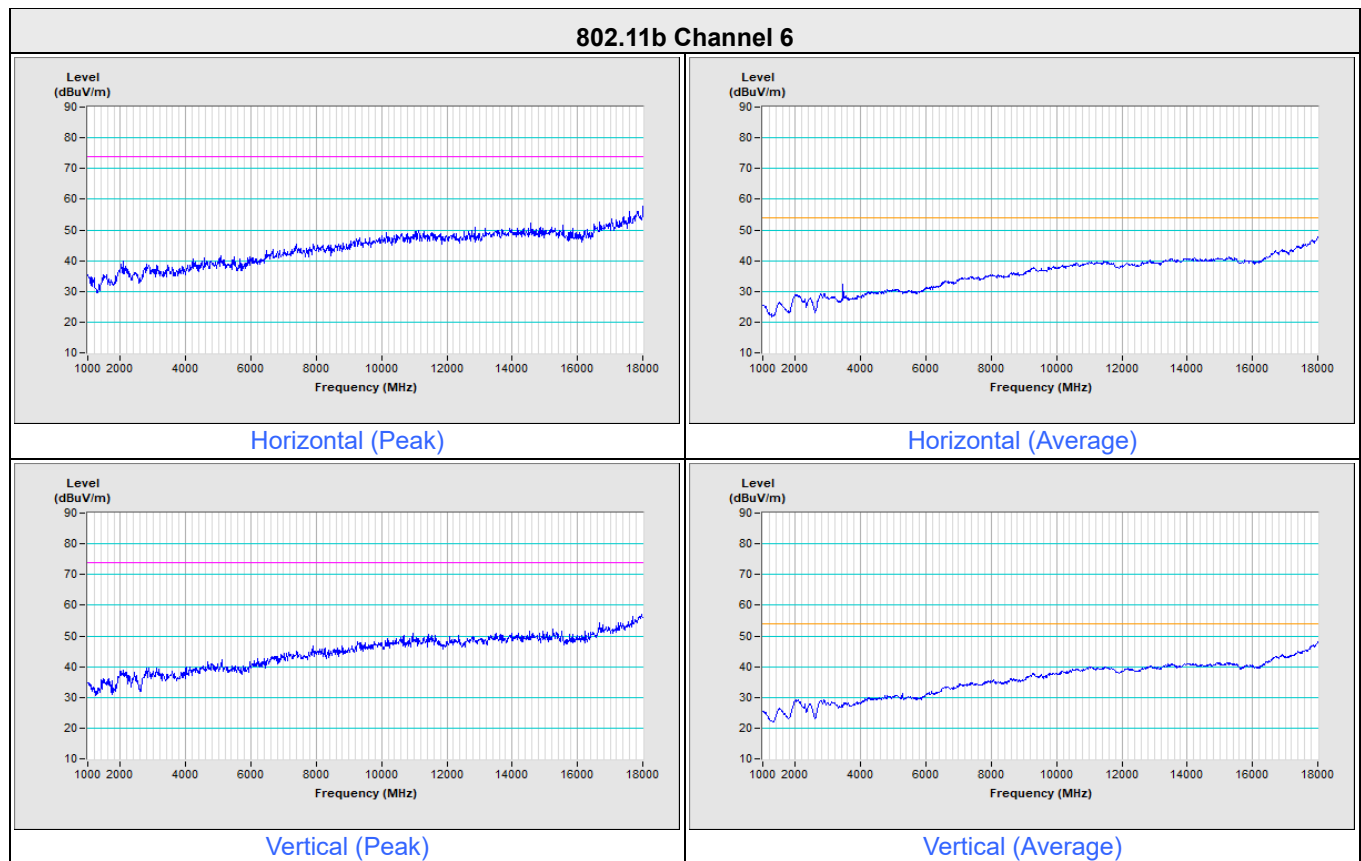


Notes:

1. For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.
2. The frequency range 18 GHz ~ 25 GHz: After investigation, no any emissions were found to exist, therefore they are not recorded in this report.

Scan Radio (Mode B)

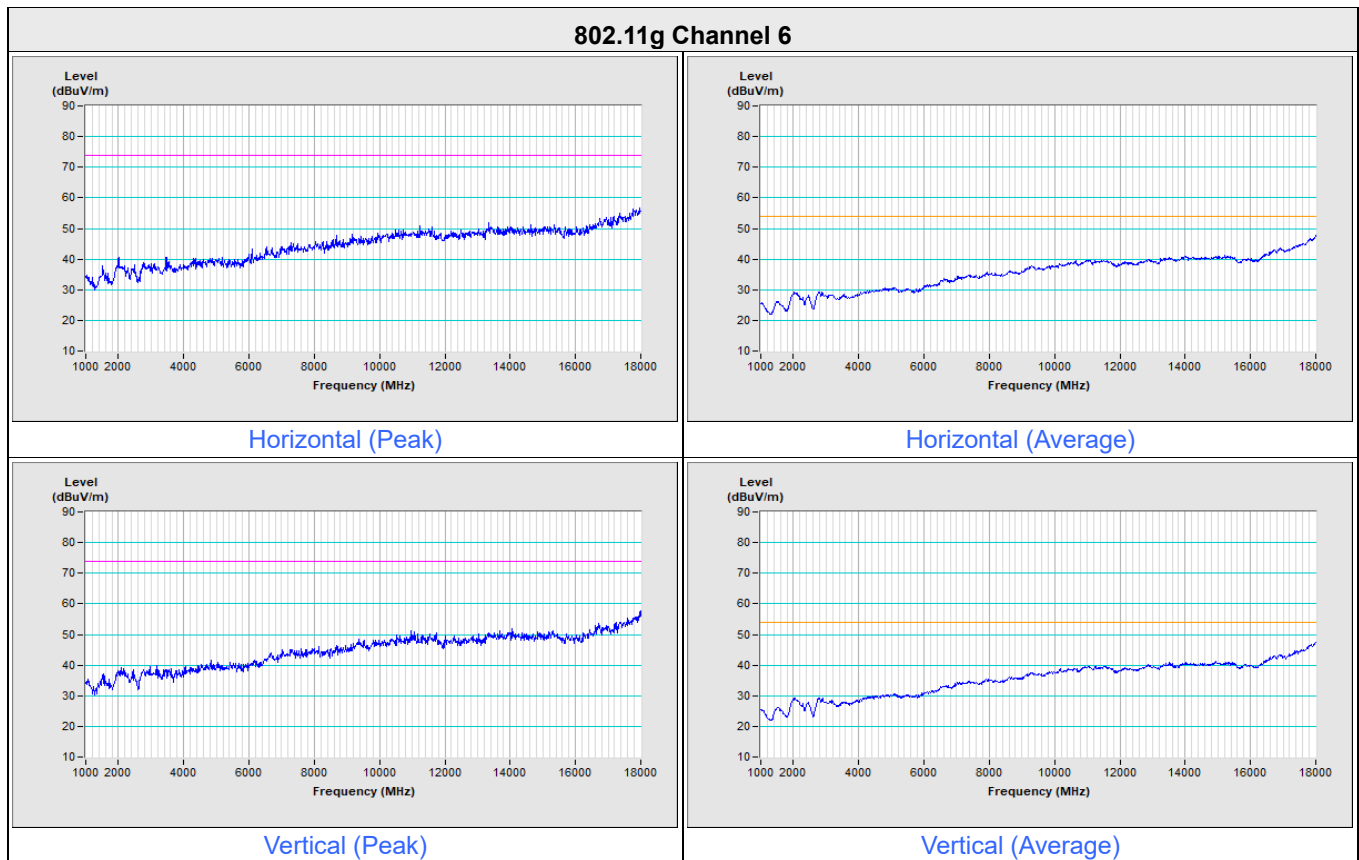
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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Notes:

1. For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.
2. The frequency range 18 GHz ~ 25 GHz: After investigation, no any emissions were found to exist, therefore they are not recorded in this report.

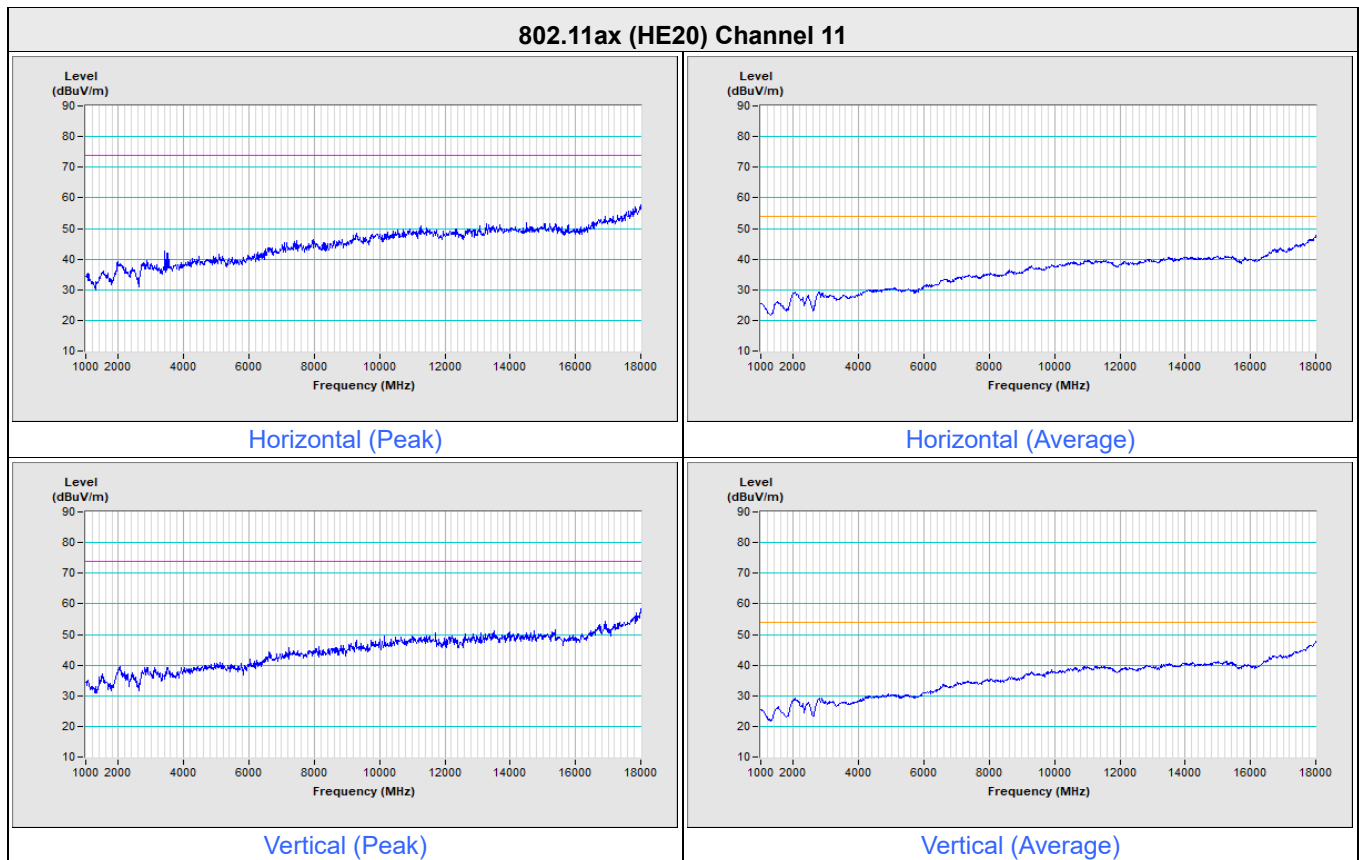
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
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Notes:

1. For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.
2. The frequency range 18 GHz ~ 25 GHz: After investigation, no any emissions were found to exist, therefore they are not recorded in this report.

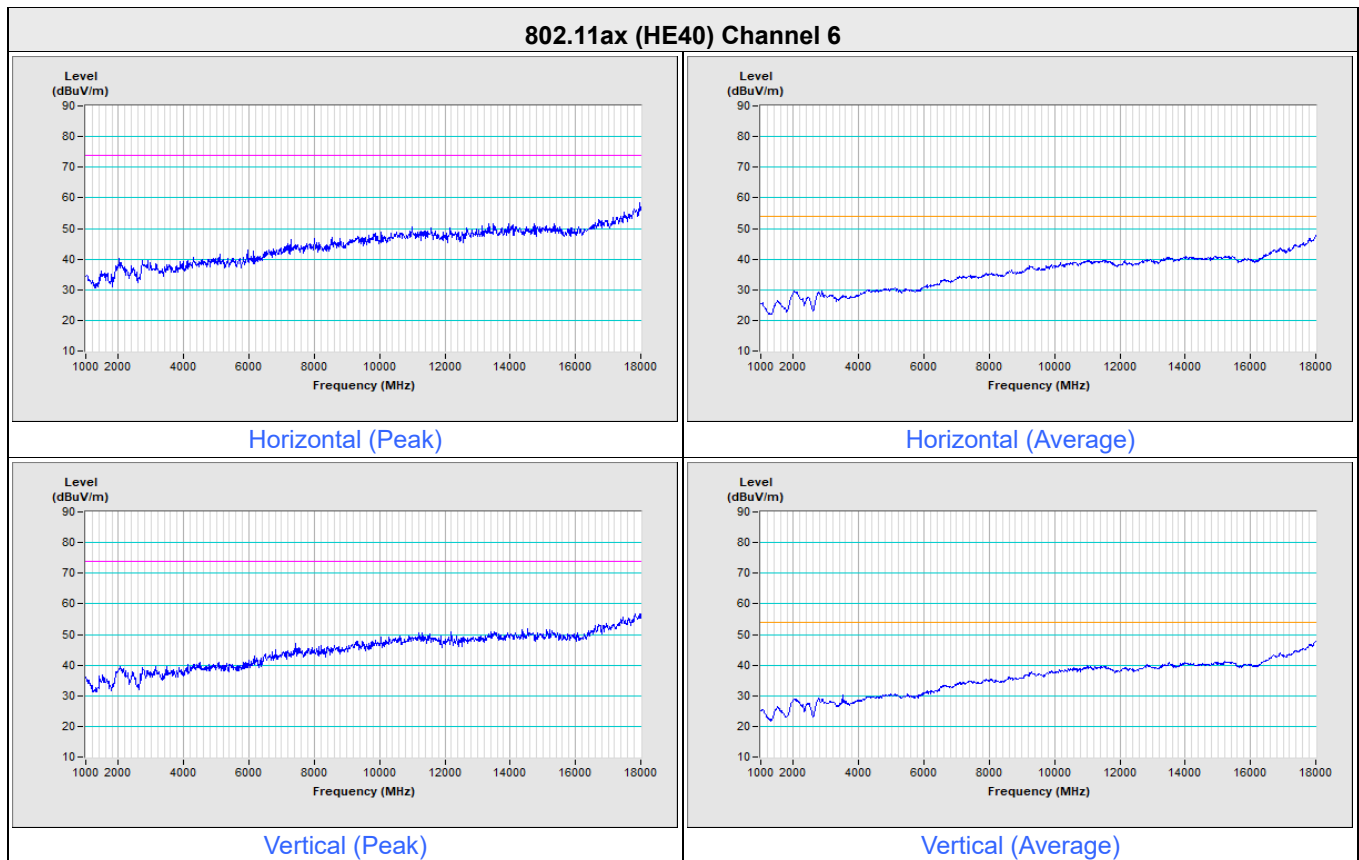
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
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Notes:

1. For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.
2. The frequency range 18 GHz ~ 25 GHz: After investigation, no any emissions were found to exist, therefore they are not recorded in this report.

Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
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Notes:

1. For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.
2. The frequency range 18 GHz ~ 25 GHz: After investigation, no any emissions were found to exist, therefore they are not recorded in this report.

8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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The address and road map of all our labs can be found in our web site also.

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