

FCC Test Report (WLAN)

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FCC ID: 2AQ68RLP0003

Test Model: RLP0003

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Applicant: Hon Lin Technology Co., Ltd.

Address: 11F, No. 32, Jihu Rd., Neihu Dist., Taipei City 114, Taiwan R.O.C.

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lin Kou Laboratories

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

Test Location: No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City
33383, TAIWAN

**FCC Registration /
Designation Number:** 788550 / TW0003



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Table of Contents

Release Control Record	4
1 Certificate of Conformity	5
2 Summary of Test Results	6
2.1 Measurement Uncertainty.....	6
2.2 Modification Record.....	6
3 General Information	7
3.1 General Description of EUT (WLAN).....	7
3.2 Description of Antenna.....	9
3.3 Description of Test Modes.....	10
3.3.1 Test Mode Applicability and Tested Channel Detail.....	11
3.4 Duty Cycle of Test Signal.....	14
3.5 Description of Support Units.....	16
3.5.1 Configuration of System under Test.....	16
3.6 General Description of Applied Standards and References.....	16
4 Test Types and Results	17
4.1 Radiated Emission and Bandedge Measurement.....	17
4.1.1 Limits of Radiated Emission and Bandedge Measurement.....	17
4.1.2 Test Instruments.....	18
4.1.3 Test Procedures.....	19
4.1.4 Deviation from Test Standard.....	20
4.1.5 Test Setup.....	20
4.1.6 EUT Operating Conditions.....	21
4.1.7 Test Results.....	22
4.2 Conducted Emission Measurement.....	71
4.2.1 Limits of Conducted Emission Measurement.....	71
4.2.2 Test Instruments.....	71
4.2.3 Test Procedures.....	72
4.2.4 Deviation from Test Standard.....	72
4.2.5 Test Setup.....	72
4.2.6 EUT Operating Conditions.....	72
4.2.7 Test Results.....	73
4.3 6dB Bandwidth Measurement.....	75
4.3.1 Limits of 6dB Bandwidth Measurement.....	75
4.3.2 Test Setup.....	75
4.3.3 Test Instruments.....	75
4.3.4 Test Procedure.....	75
4.3.5 Deviation from Test Standard.....	75
4.3.6 EUT Operating Conditions.....	75
4.3.7 Test Result.....	76
4.4 Conducted Output Power Measurement.....	78
4.4.1 Limits of Conducted Output Power Measurement.....	78
4.4.2 Test Setup.....	78
4.4.3 Test Instruments.....	78
4.4.4 Test Procedures.....	78
4.4.5 Deviation from Test Standard.....	78
4.4.6 EUT Operating Conditions.....	78
4.4.7 Test Results.....	79
4.5 Power Spectral Density Measurement.....	87
4.5.1 Limits of Power Spectral Density Measurement.....	87
4.5.2 Test Setup.....	87
4.5.3 Test Instruments.....	87
4.5.4 Test Procedure.....	87
4.5.5 Deviation from Test Standard.....	87

4.5.6 EUT Operating Condition	87
4.5.7 Test Results	88
4.6 Conducted Out of Band Emission Measurement.....	97
4.6.1 Limits of Conducted Out of Band Emission Measurement	97
4.6.2 Test Setup.....	97
4.6.3 Test Instruments	97
4.6.4 Test Procedure	97
4.6.5 Deviation from Test Standard	97
4.6.6 EUT Operating Condition	97
4.6.7 Test Results	97
Annex A - Band Edge Measurement.....	120
5 Pictures of Test Arrangements.....	140
Appendix – Information of the Testing Laboratories	141

Release Control Record

Issue No.	Description	Date Issued
RFBHQC-WTW-P22030336	Original release	Jun. 24, 2022

1 Certificate of Conformity

Product: Wi-Fi 6E BT5.2 WLAN Module

Brand: Foxconn

Test Model: RLP0003

Sample Status: Engineering sample

Applicant: Hon Lin Technology Co., Ltd.

Test Date: May 12 ~ Jun. 23, 2022

Standards: 47 CFR FCC Part 15, Subpart C (Section 15.247)
ANSI C63.10:2013

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.

Prepared by : Celine Chou , **Date:** Jun. 24, 2022
Celine Chou / Senior Specialist

Approved by : Jeremy Lin , **Date:** Jun. 24, 2022
Jeremy Lin / Project Engineer

2 Summary of Test Results

47 CFR FCC Part 15, Subpart C (Section 15.247)			
FCC Clause	Test Item	Result	Remarks
15.207	AC Power Conducted Emission	Pass	Meet the requirement of limit. Minimum passing margin is -4.46dB at 0.27000MHz.
15.205 / 15.209 / 15.247(d)	Radiated Emissions and Band Edge Measurement	Pass	Meet the requirement of limit. Minimum passing margin is -0.2dB at 2483.50MHz.
15.247(d)	Antenna Port Emission	Pass	Meet the requirement of limit.
15.247(a)(2)	6dB bandwidth	Pass	Meet the requirement of limit.
15.247(b)	Conducted power	Pass	Meet the requirement of limit.
15.247(e)	Power Spectral Density	Pass	Meet the requirement of limit.
15.203	Antenna Requirement	Pass	Antenna connector is i-pex (MHF 4L) not a standard connector.

Note:

- For 2.4G band compliance with rule 15.247(d) of the band-edge items, the test plots were recorded in Annex A. Test Procedures refer to report 4.1.3.
- 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	Frequency	Expanded Uncertainty (k=2) (±)
Conducted Emissions at mains ports	150kHz ~ 30MHz	2.79 dB
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	3.04 dB
	30MHz ~ 200MHz	2.93 dB
	200MHz ~ 1000MHz	2.95 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	2.26 dB
	18GHz ~ 40GHz	1.94 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT (WLAN)

Product	Wi-Fi 6E BT5.2 WLAN Module
Brand	Foxconn
Test Model	RLP0003
Sample Status	Engineering sample
Power Supply Rating	3.3Vdc from host equipment
Modulation Type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in VHT20/40 1024QAM for OFDMA in 11ax HE mode
Modulation Technology	DSSS, OFDM, OFDMA
Transfer Rate	802.11b: up to 11Mbps 802.11g: up to 54Mbps 802.11n: up to 300Mbps VHT20/40: up to 400Mbps 802.11ax: up to 574Mbps
Operating Frequency	2412 ~ 2472MHz
Number of Channel	802.11b, 802.11g, 802.11n (HT20), VHT20, 802.11ax (HE20): 13 802.11n (HT40), VHT40, 802.11ax (HE40): 9
Output Power	701.511mW
Antenna Type	Refer to note
Antenna Connector	Refer to note
Accessory Device	NA
Cable Supplied	NA

Note:

1. This report is prepared for FCC class II permissive change. The difference compared with the original report (BV CPS report no.: RF201119E01) are changed FCC ID, applicant, brand name, model name and added antenna. All test data have been an addendum test to this report.
2. This device of WLAN (2.4GHz & 5GHz U-NII-1 Band) can support hotspot mode.
3. Simultaneously transmission condition.

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

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

4. The device of WLAN (2.4GHz) and Bluetooth technology can't transmit simultaneously, it was used timely shared coexistence technology.

5. The module has two variant designs as following table:

SKU No.	Description
SKU #1	M.2 2230 E-key
SKU #2	M.2 2230 AE-key

From the above variants designs, the worst case was found in SKU #1. Therefore only the test data of the mode was recorded in this report.

6. The product provides option to depopulate external LNA (Low-Noise amplifier) from 5GHz/6GHz receive path. This test report covers variation of with/without external LNA and test was conducted to confirm not change in RF compliance and EMC. And worst case was found in without external LNA.

7. The EUT incorporates a MIMO function. Physically, the EUT provides 2 completed transmitters and 2 receivers.

Modulation Mode	Tx & Rx Configuration	
802.11b	2TX	2RX
802.11g	2TX	2RX
802.11n (HT20)	2TX	2RX
802.11n (HT40)	2TX	2RX
VHT20	2TX	2RX
VHT40	2TX	2RX
802.11ax (HE20)	2TX	2RX
802.11ax (HE40)	2TX	2RX
802.11ax (RU26/52/106/242/484)	2TX	2RX

Note:

1. The EUT support Beamforming and non-beamforming mode, therefore both mode were investigated and the worst case scenario was identified. The worst case data (Beamforming mode) were presented in test report.
2. The modulation and bandwidth are similar for 802.11n mode for 20MHz (40MHz), VHT mode for 20MHz (40MHz) and 802.11ax mode for 20MHz (40MHz), therefore the manufacturer will control the power for 802.11n/ac mode is the same as the 802.11ax mode or more lower than it and investigated worst case to representative mode in test report. (Final test mode refer to section 3.3.1)

3.2 Description of Antenna

The antenna gain was declared by client; please refer to the following table:

Antenna Set	RF Chain No.	Brand	Model	Antenna Net Gain (dBi)	Frequency Range (GHz)	Cable Loss (dB)	Antenna Type	Connector Type	Cable Length
1	Chain0/1	HONGBO	260-25094	3.53	2.40~2.4835	0.76	PIFA	i-pex (MHF 4L)	300mm
				3.06	5.150~5.250	1.16			
				3.07	5.250~5.350	1.18			
				4.81	5.470~5.725	1.20			
				4.20	5.725~5.850	1.27			
2	Chain0/1	HONGBO	260-25083	5.09	5.850~5.895	1.29	PIFA	i-pex (MHF 4L)	300mm
				5.14	5.925~6.425	1.32			
				5.09	6.425~6.525	1.35			
				5.16	6.525~6.875	1.40			
				5.12	6.875~7.125	1.45			
3	Chain0/1	HONGBO	260-25084	3.22	2.40~2.4835	0.50	Monopole	i-pex (MHF 4L)	200mm
				3.35	5.150~5.250	0.76			
				3.42	5.250~5.350	0.78			
				4.77	5.470~5.725	0.81			
				4.72	5.725~5.850	0.85			
				4.71	5.850~5.895	0.86			
				4.75	5.925~6.425	0.87			
				4.29	6.425~6.525	0.91			
				4.81	6.525~6.875	0.96			
				4.74	6.875~7.125	0.98			
4	Chain0/1	Auden	ANTRG6U123-1801 / ANTRG6U123-1802	5.13 / 4.64	2.40~2.4835	-	PIFA (Slot)	i-pex (MHF 4L)	460mm / 740mm
				2.70 / 3.36	5.150~5.250				
				2.70 / 3.07	5.250~5.350				
				2.50 / 1.08	5.470~5.725				
				2.68 / 0.42	5.725~5.850				
				2.68 / 0.42	5.850~5.895				
				2.18 / 1.20	5.925~6.425				
				1.98 / 0.59	6.425~6.525				
				2.42 / 1.72	6.525~6.875				
				1.48 / 0.62	6.875~7.125				

Note:

1. Antenna Set 4 is the new antenna to be applied for this time.
2. The above Antenna information refers to the manufacturer's antenna specifications, the laboratory shall not be held responsible.

3.3 Description of Test Modes

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

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

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

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

3.3.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable to				Description
	RE≥1G	RE<1G	PLC	APCM	
-	√	√	√	√	-

Where RE≥1G: Radiated Emission above 1GHz & Bandedge Measurement
 RE<1G: Radiated Emission below 1GHz
 PLC: Power Line Conducted Emission
 APCM: Antenna Port Conducted Measurement

Note: Radiated emission test (below 1GHz) and power line conducted emission test items chosen the worst maximum power.

Radiated Emission Test (Above 1GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter	RU Configuration		
802.11b	1 to 13	1, 6, 11, 12, 13	DSSS	DBPSK	1Mb/s	-		
802.11g	1 to 13	1, 2, 6, 10, 11, 12, 13	OFDM	BPSK	6Mb/s	-		
802.11ax (HE20)	1 to 13	1, 2, 6, 10, 11, 12, 13	OFDMA	BPSK	MCS0	-		
802.11ax (HE40)	3 to 11	3, 4, 6, 8, 9, 10, 11	OFDMA	BPSK	MCS0	-		
Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter	RU Configuration		
						RU26	RU52	RU106
20MHz Preamble	1 to 13	1	OFDMA	BPSK	MCS0	26/0	52/37	106/53
		2				26/0	52/37	106/53
		6				26/4	52/38	106/53
		10				26/8	52/40	106/54
		11				26/8	52/40	106/54
		12				26/8	52/40	106/54
		13				26/8	52/40	106/54

Radiated Emission Test (Below 1GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter	RU Configuration
802.11g	1 to 13	6	OFDM	BPSK	6Mb/s	-

Power Line Conducted Emission Test:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter	RU Configuration
802.11g	1 to 13	6	OFDM	BPSK	6Mb/s	-

Bandwidth and Conducted Out of Band Emission Measurement

- This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter	RU Configuration
802.11b	1 to 13	1, 6, 11, 12, 13	DSSS	DBPSK	1Mb/s	-
802.11g	1 to 13	1, 2, 6, 10, 11, 12, 13	OFDM	BPSK	6Mb/s	-
802.11ax (HE20)	1 to 13	1, 2, 6, 10, 11, 12, 13	OFDMA	BPSK	MCS0	-
802.11ax (HE40)	3 to 11	3, 4, 6, 8, 9, 10, 11	OFDMA	BPSK	MCS0	-

Conducted Output Power Measurement:

- This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter	RU Configuration		
802.11b	1 to 13	1, 6, 11, 12, 13	DSSS	DBPSK	1Mb/s	-	-	-
802.11g	1 to 13	1, 2, 6, 10, 11, 12, 13	OFDM	BPSK	6Mb/s	-	-	-
VHT20	1 to 13	1, 2, 6, 10, 11, 12, 13	OFDM	BPSK	MCS0	-	-	-
VHT40	3 to 11	3, 4, 6, 8, 9, 10, 11	OFDM	BPSK	MCS0	-	-	-
802.11ax (HE20)	1 to 13	1, 2, 6, 10, 11, 12, 13	OFDMA	BPSK	MCS0	-	-	-
802.11ax (HE40)	3 to 11	3, 4, 6, 8, 9, 10, 11	OFDMA	BPSK	MCS0	-	-	-
Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter	RU Configuration		
20MHz Preamble	1 to 13	1	OFDMA	BPSK	MCS0	26/0	52/37	106/53
		2				26/0	52/37	106/53
		6				26/4	52/38	106/53
		10				26/8	52/40	106/54
		11				26/8	52/40	106/54
		12				26/8	52/40	106/54
		13				26/8	52/40	106/54

Power Spectral Density Measurement:

- This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter	RU Configuration		
802.11b	1 to 13	1, 6, 11, 12, 13	DSSS	DBPSK	1Mb/s	-		
802.11g	1 to 13	1, 2, 6, 10, 11, 12, 13	OFDM	BPSK	6Mb/s	-		
802.11ax (HE20)	1 to 13	1, 2, 6, 10, 11, 12, 13	OFDMA	BPSK	MCS0	-		
802.11ax (HE40)	3 to 11	3, 4, 6, 8, 9, 10, 11	OFDMA	BPSK	MCS0	-		
Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter	RU Configuration		
						RU26	RU52	RU106
20MHz Preamble	1 to 13	1	OFDMA	BPSK	MCS0	26/0	52/37	106/53
		2				26/0	52/37	106/53
		6				26/4	52/38	106/53
		10				26/8	52/40	106/54
		11				26/8	52/40	106/54
		12				26/8	52/40	106/54
		13				26/8	52/40	106/54

Test Condition:

Applicable to	Environmental Conditions	Input Power (System)	Tested by
RE≥1G	23 deg. C, 64% RH	120Vac, 60Hz	Tim Chen Thomas Cheng Vincent Chen
RE<1G	23 deg. C, 64% RH	120Vac, 60Hz	Thomas Cheng
PLC	23 deg. C, 68% RH	120Vac, 60Hz	Thomas Cheng
APCM	25 deg. C, 60% RH	120Vac, 60Hz	Jisyong Wang

3.4 Duty Cycle of Test Signal

Duty cycle of test signal is < 98%, duty factor is required.

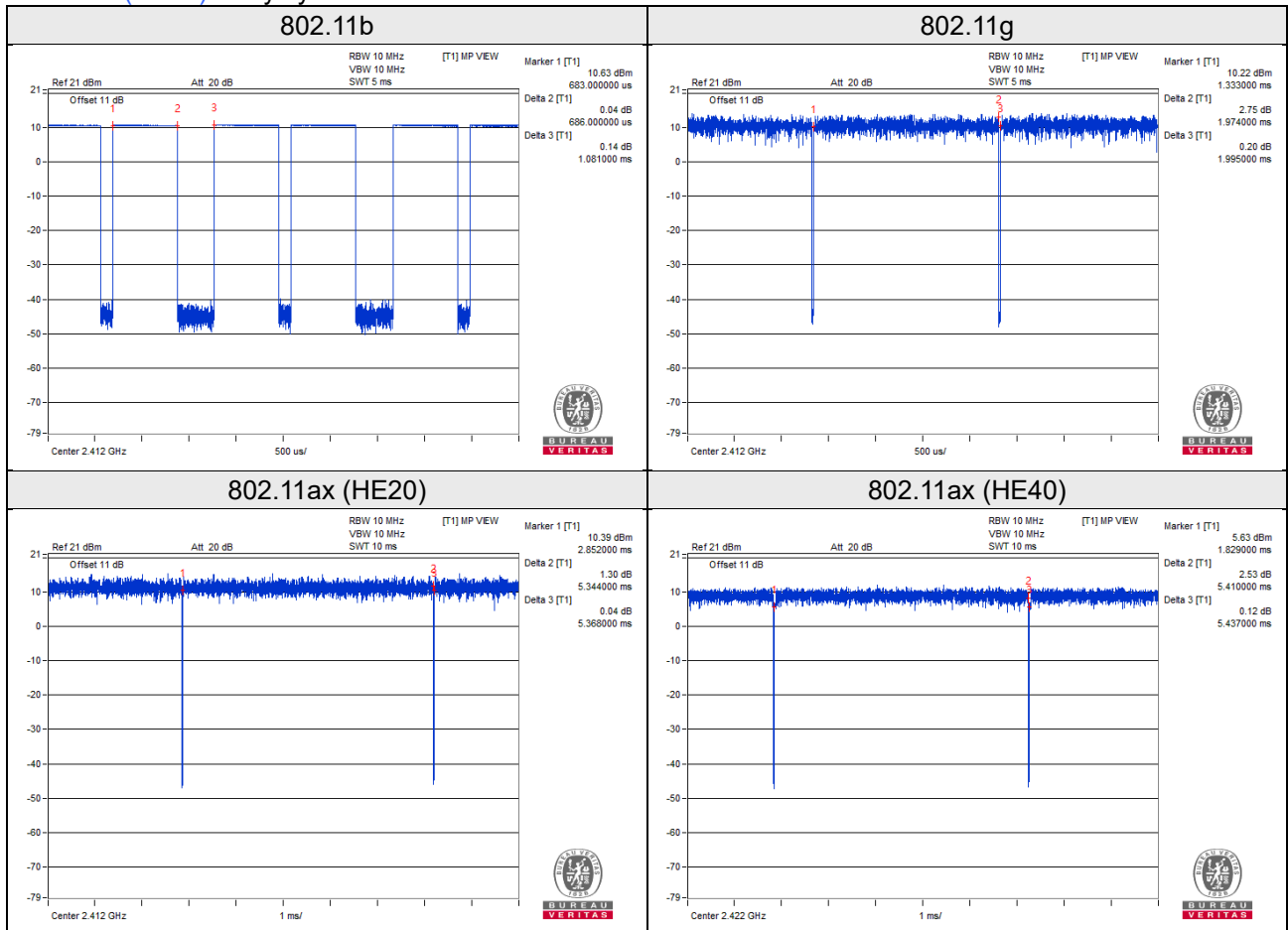
Duty cycle of test signal is ≥ 98%, duty factor is not required.

802.11b: Duty cycle = 0.686/1.081 = 0.635, Duty factor = 10 * log (1/0.635) = 1.98

802.11g: Duty cycle = 1.974/1.995 = 0.989

802.11ax (HE20): Duty cycle = 5.344/5.368 = 0.996

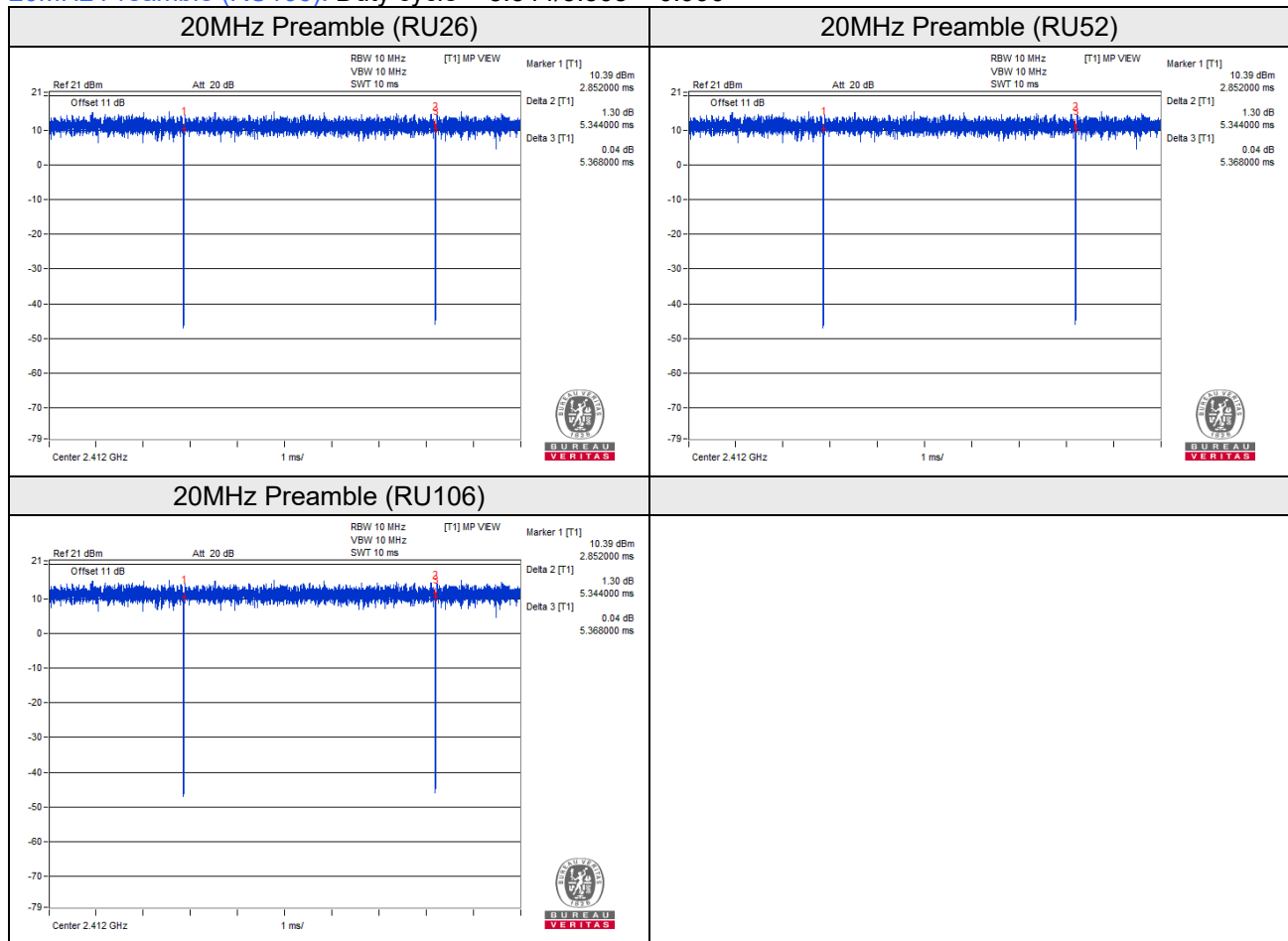
802.11ax (HE40): Duty cycle = 5.410/5.437 = 0.995



20MHz Preamble (RU26): Duty cycle = 5.344/5.368 = 0.996

20MHz Preamble (RU52): Duty cycle = 5.344/5.368 = 0.996

20MHz Preamble (RU106): Duty cycle = 5.344/5.368 = 0.996



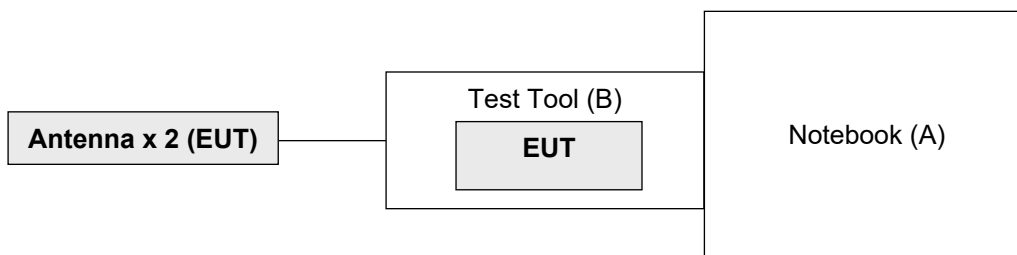
3.5 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Notebook	Tongfang	GK5NPFO	NA	FCC DoC Approved	Provided by client
B.	Test Tool	Foxconn	NA	NA	NA	Provided by client

Note: All power cords of the above support units are non-shielded (1.8m).

3.5.1 Configuration of System under Test



3.6 General Description of Applied Standards and References

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards and references:

Test standard:

FCC Part 15, Subpart C (15.247)

ANSI C63.10:2013

All test items have been performed and recorded as per the above standards.

References Test Guidance:

KDB 558074 D01 15.247 Meas Guidance v05r02

KDB 662911 D01 Multiple Transmitter Output v02r01

All test items have been performed as a reference to the above KDB test guidance.

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

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

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

Note:

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 1000MHz, 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 20dB under any condition of modulation.

4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer Agilent	N9010A	MY52220314	Dec. 03, 2021	Dec. 02, 2022
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Apr. 11, 2022	Apr. 10, 2023
Broadband Horn Antenna SCHWARZBECK	BBHA 9170	148	Nov. 14, 2021	Nov. 13, 2022
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-969	Nov. 14, 2021	Nov. 13, 2022
BILOG Antenna SCHWARZBECK	VULB 9168	9168-472	Oct. 28, 2021	Oct. 27, 2022
Fixed Attenuator WOKEN	MDCS18N-10	MDCS18N-10-01	Apr. 05, 2022	Apr. 04, 2023
MXG Vector signal generator Agilent	N5182B	MY53050430	Nov. 25, 2021	Nov. 24, 2022
Loop Antenna TESEQ	HLA 6121	45745	Jul. 21, 2021	Jul. 20, 2022
Preamplifier EMCI	EMC001340	980201	Sep. 15, 2021	Sep. 14, 2022
Preamplifier EMCI	EMC 012645	980115	Oct. 05, 2021	Oct. 04, 2022
Preamplifier EMCI	EMC 184045	980116	Oct. 05, 2021	Oct. 04, 2022
Preamplifier EMCI	EMC 330H	980112	Oct. 05, 2021	Oct. 04, 2022
Peak Power Analyzer KEYSIGHT	8990B	MY51000485	Jan. 18, 2022	Jan. 17, 2023
Wideband Power Sensor KEYSIGHT	N1923A	MY58020002	Jan. 17, 2022	Jan. 16, 2023
RF Coaxial Cable EMCI	EMC104-SM-SM-800 0	171005	Oct. 05, 2021	Oct. 04, 2022
RF Coaxial Cable HUBER+SUHNNER	SUCOFLEX 104	EMC104-SM-SM-1000 (140807)	Oct. 05, 2021	Oct. 04, 2022
RF Coaxial Cable WOKEN	8D-FB	Cable-Ch10-01	Oct. 05, 2021	Oct. 04, 2022
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
Software BV ADT	E3 6.120103	NA	NA	NA
Antenna Tower MF	MFA-440H	NA	NA	NA
Turn Table MF	MFT-201SS	NA	NA	NA
Antenna Tower & Turn Table Controller MF	MF-7802	NA	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Chamber 10.

4.1.3 Test Procedures

For Radiated emission below 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

For Radiated emission above 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detect 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.

Note:

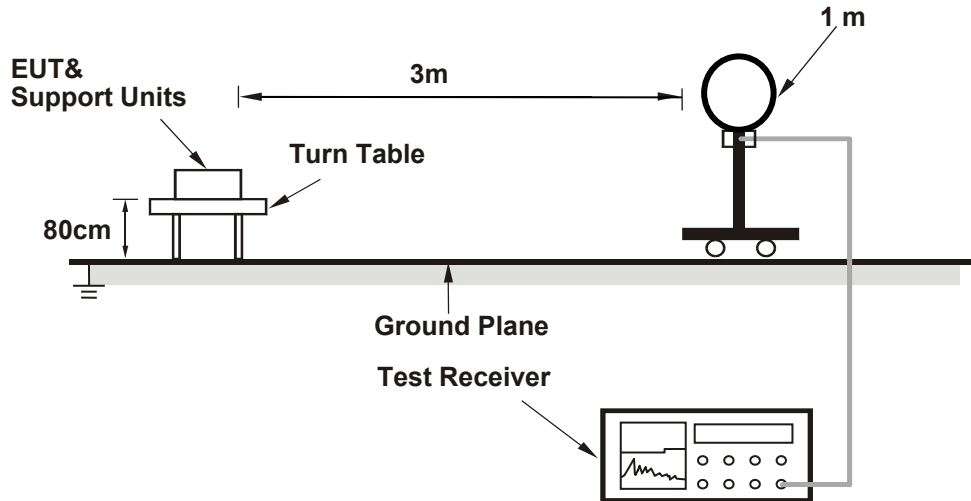
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz. (802.11b: RBW = 1MHz, VBW = 1kHz; 802.11g: RBW = 1MHz, VBW = 10Hz; 802.11ax (HE20): RBW = 1MHz, VBW = 10Hz; 802.11ax (HE40): RBW = 1MHz, VBW = 10Hz; 20MHz Preamble (RU26): RBW = 1MHz, VBW = 10Hz; 20MHz Preamble (RU52): RBW = 1MHz, VBW = 10Hz; 20MHz Preamble (RU106): RBW = 1MHz, VBW = 10Hz)
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

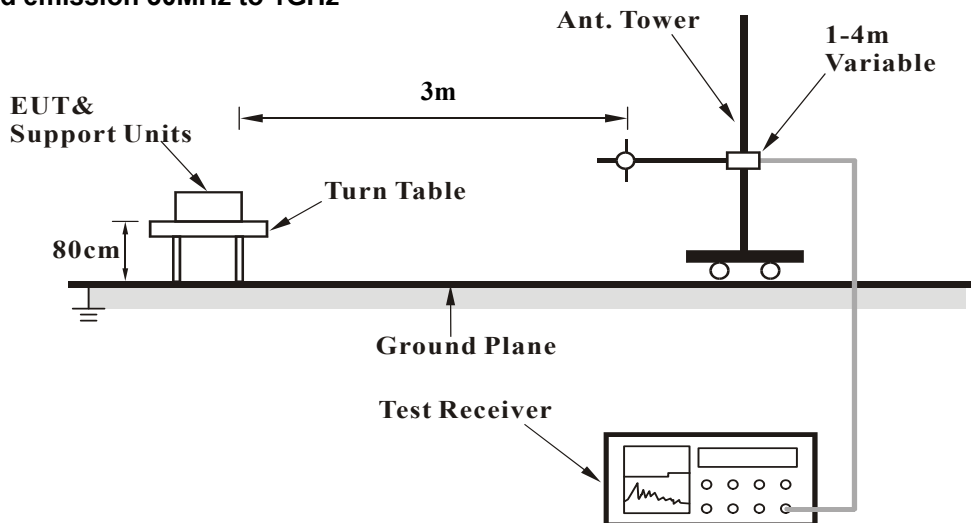
No deviation.

4.1.5 Test Setup

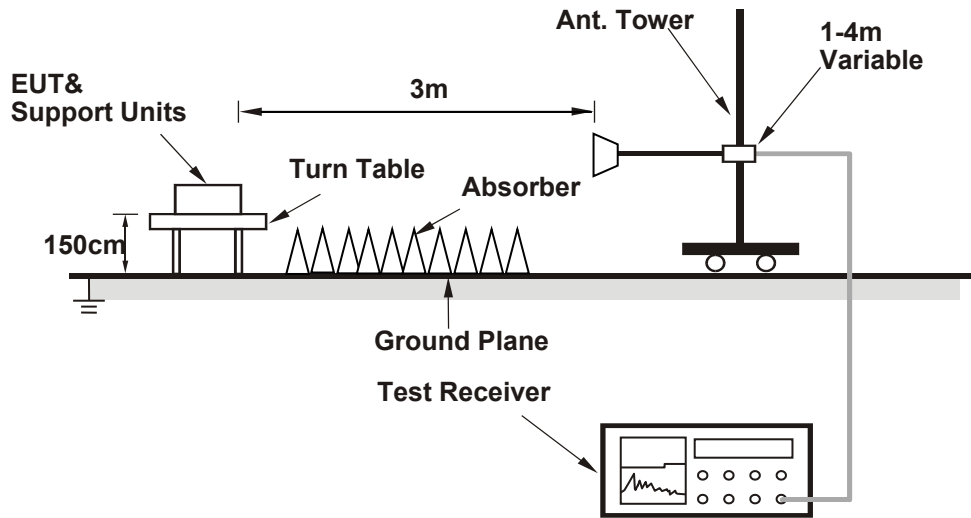
For Radiated emission below 30MHz



For Radiated emission 30MHz to 1GHz



For Radiated emission above 1GHz



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

4.1.6 EUT Operating Conditions

- a. Connected the EUT with the Laptop which is placed on the testing table.
- b. Controlling software (QRCT 4.0 Version 4.0.00189.0) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

4.1.7 Test Results

Above 1GHz Data:

RF Mode	TX 802.11b	Channel	CH 1 : 2412 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	56.6 PK	74.0	-17.4	3.35 H	219	26.2	30.4
2	2390.00	45.6 AV	54.0	-8.4	3.35 H	219	15.2	30.4
3	*2412.00	102.4 PK			2.84 H	245	72.0	30.4
4	*2412.00	100.2 AV			2.84 H	245	69.8	30.4
5	4824.00	41.3 PK	74.0	-32.7	1.90 H	157	57.4	-16.1
6	4824.00	31.1 AV	54.0	-22.9	1.90 H	157	47.2	-16.1
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	57.5 PK	74.0	-16.5	1.72 V	171	27.1	30.4
2	2390.00	48.0 AV	54.0	-6.0	1.72 V	171	17.6	30.4
3	*2412.00	110.2 PK			1.72 V	171	79.8	30.4
4	*2412.00	108.0 AV			1.72 V	171	77.6	30.4
5	4824.00	42.1 PK	74.0	-31.9	2.28 V	197	58.2	-16.1
6	4824.00	33.8 AV	54.0	-20.2	2.28 V	197	49.9	-16.1

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.

RF Mode	TX 802.11b	Channel	CH 6 : 2437 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	101.9 PK			2.78 H	243	71.4	30.5
2	*2437.00	99.6 AV			2.78 H	243	69.1	30.5
3	4874.00	41.1 PK	74.0	-32.9	1.93 H	162	57.2	-16.1
4	4874.00	31.0 AV	54.0	-23.0	1.93 H	162	47.1	-16.1
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	111.6 PK			1.70 V	194	81.1	30.5
2	*2437.00	109.2 AV			1.70 V	194	78.7	30.5
3	4874.00	43.5 PK	74.0	-30.5	2.23 V	199	59.6	-16.1
4	4874.00	34.3 AV	54.0	-19.7	2.23 V	199	50.4	-16.1

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.

RF Mode	TX 802.11b	Channel	CH 11 : 2462 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	102.7 PK			2.77 H	246	72.2	30.5
2	*2462.00	100.4 AV			2.77 H	246	69.9	30.5
3	2483.50	57.4 PK	74.0	-16.6	2.77 H	246	27.0	30.4
4	2483.50	48.3 AV	54.0	-5.7	2.77 H	246	17.9	30.4
5	4924.00	40.7 PK	74.0	-33.3	1.22 H	107	56.9	-16.2
6	4924.00	31.2 AV	54.0	-22.8	1.22 H	107	47.4	-16.2

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	110.4 PK			1.68 V	193	79.9	30.5
2	*2462.00	108.1 AV			1.68 V	193	77.6	30.5
3	2491.56	60.2 PK	74.0	-13.8	1.68 V	193	29.8	30.4
4	2491.56	52.2 AV	54.0	-1.8	1.68 V	193	21.8	30.4
5	4924.00	42.2 PK	74.0	-31.8	2.23 V	194	58.4	-16.2
6	4924.00	33.5 AV	54.0	-20.5	2.23 V	194	49.7	-16.2

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.

RF Mode	TX 802.11b	Channel	CH 12 : 2467 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	*2467.00	100.7 PK			2.81 H	247	70.3	30.4
2	*2467.00	98.6 AV			2.81 H	247	68.2	30.4
3	2483.50	57.5 PK	74.0	-16.5	2.81 H	247	27.1	30.4
4	2483.50	46.6 AV	54.0	-7.4	2.81 H	247	16.2	30.4
5	4934.00	41.6 PK	74.0	-32.4	1.58 H	243	57.8	-16.2
6	4934.00	31.4 AV	54.0	-22.6	1.58 H	243	47.6	-16.2

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	*2467.00	109.0 PK			1.68 V	195	78.6	30.4
2	*2467.00	106.7 AV			1.68 V	195	76.3	30.4
3	2493.92	59.9 PK	74.0	-14.1	1.68 V	195	29.5	30.4
4	2493.92	50.8 AV	54.0	-3.2	1.68 V	195	20.4	30.4
5	4934.00	41.4 PK	74.0	-32.6	1.52 V	166	57.6	-16.2
6	4934.00	33.0 AV	54.0	-21.0	1.52 V	166	49.2	-16.2

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.

RF Mode	TX 802.11b	Channel	CH 13 : 2472 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	*2472.00	98.6 PK			2.84 H	245	68.2	30.4
2	*2472.00	96.0 AV			2.84 H	245	65.6	30.4
3	2483.50	62.3 PK	74.0	-11.7	2.84 H	245	31.9	30.4
4	2483.50	47.7 AV	54.0	-6.3	2.84 H	245	17.3	30.4
5	4944.00	41.1 PK	74.0	-32.9	2.04 H	168	57.3	-16.2
6	4944.00	31.2 AV	54.0	-22.8	2.04 H	168	47.4	-16.2

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	*2472.00	106.3 PK			1.75 V	346	75.9	30.4
2	*2472.00	104.0 AV			1.75 V	346	73.6	30.4
3	2483.50	70.2 PK	74.0	-3.8	1.75 V	346	39.8	30.4
4	2483.50	51.9 AV	54.0	-2.1	1.75 V	346	21.5	30.4
5	4944.00	41.4 PK	74.0	-32.6	2.14 V	306	57.6	-16.2
6	4944.00	31.0 AV	54.0	-23.0	2.14 V	306	47.2	-16.2

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.

RF Mode	TX 802.11g	Channel	CH 1 : 2412 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	56.8 PK	74.0	-17.2	3.23 H	244	26.4	30.4
2	2390.00	46.4 AV	54.0	-7.6	3.23 H	244	16.0	30.4
3	*2412.00	103.6 PK			3.23 H	244	73.2	30.4
4	*2412.00	95.4 AV			3.23 H	244	65.0	30.4
5	4824.00	43.4 PK	74.0	-30.6	2.40 H	327	59.5	-16.1
6	4824.00	32.3 AV	54.0	-21.7	2.40 H	327	48.4	-16.1

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	63.7 PK	74.0	-10.3	1.73 V	174	33.3	30.4
2	2390.00	51.2 AV	54.0	-2.8	1.73 V	174	20.8	30.4
3	*2412.00	111.4 PK			1.73 V	174	81.0	30.4
4	*2412.00	104.3 AV			1.73 V	174	73.9	30.4
5	4824.00	44.2 PK	74.0	-29.8	3.41 V	24	60.3	-16.1
6	4824.00	33.2 AV	54.0	-20.8	3.41 V	24	49.3	-16.1

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.

RF Mode	TX 802.11g	Channel	CH 2 : 2417 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	57.1 PK	74.0	-16.9	3.25 H	244	26.7	30.4
2	2390.00	46.1 AV	54.0	-7.9	3.25 H	244	15.7	30.4
3	*2417.00	104.5 PK			3.25 H	244	74.0	30.5
4	*2417.00	96.9 AV			3.25 H	244	66.4	30.5
5	4834.00	42.9 PK	74.0	-31.1	1.39 H	36	58.9	-16.0
6	4834.00	32.1 AV	54.0	-21.9	1.39 H	36	48.1	-16.0

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	59.9 PK	74.0	-14.1	1.70 V	176	29.5	30.4
2	2390.00	48.7 AV	54.0	-5.3	1.70 V	176	18.3	30.4
3	*2417.00	112.1 PK			1.70 V	176	81.6	30.5
4	*2417.00	104.5 AV			1.70 V	176	74.0	30.5
5	4834.00	43.6 PK	74.0	-30.4	3.09 V	178	59.6	-16.0
6	4834.00	32.5 AV	54.0	-21.5	3.09 V	178	48.5	-16.0

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.

RF Mode	TX 802.11g	Channel	CH 6 : 2437 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	107.7 PK			3.18 H	243	77.2	30.5
2	*2437.00	99.9 AV			3.18 H	243	69.4	30.5
3	4874.00	42.6 PK	74.0	-31.4	1.67 H	88	58.7	-16.1
4	4874.00	32.0 AV	54.0	-22.0	1.67 H	88	48.1	-16.1
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	115.3 PK			1.72 V	176	84.8	30.5
2	*2437.00	107.5 AV			1.72 V	176	77.0	30.5
3	4874.00	43.2 PK	74.0	-30.8	3.57 V	116	59.3	-16.1
4	4874.00	32.3 AV	54.0	-21.7	3.57 V	116	48.4	-16.1

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.

RF Mode	TX 802.11g	Channel	CH 10 : 2457 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	*2457.00	104.9 PK			3.13 H	245	74.4	30.5
2	*2457.00	97.7 AV			3.13 H	245	67.2	30.5
3	2483.50	59.2 PK	74.0	-14.8	3.13 H	245	28.8	30.4
4	2483.50	48.2 AV	54.0	-5.8	3.13 H	245	17.8	30.4
5	4914.00	42.8 PK	74.0	-31.2	2.11 H	77	59.0	-16.2
6	4914.00	32.3 AV	54.0	-21.7	2.11 H	77	48.5	-16.2

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	*2457.00	112.7 PK			1.71 V	174	82.2	30.5
2	*2457.00	105.4 AV			1.71 V	174	74.9	30.5
3	2483.50	64.0 PK	74.0	-10.0	1.71 V	174	33.6	30.4
4	2483.50	51.8 AV	54.0	-2.2	1.71 V	174	21.4	30.4
5	4914.00	43.2 PK	74.0	-30.8	2.06 V	327	59.4	-16.2
6	4914.00	32.6 AV	54.0	-21.4	2.06 V	327	48.8	-16.2

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.

RF Mode	TX 802.11g	Channel	CH 11 : 2462 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	104.3 PK			3.11 H	246	73.8	30.5
2	*2462.00	97.0 AV			3.11 H	246	66.5	30.5
3	2483.50	59.3 PK	74.0	-14.7	3.11 H	246	28.9	30.4
4	2483.50	48.1 AV	54.0	-5.9	3.11 H	246	17.7	30.4
5	4924.00	43.1 PK	74.0	-30.9	2.09 H	146	59.3	-16.2
6	4924.00	32.5 AV	54.0	-21.5	2.09 H	146	48.7	-16.2

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	112.0 PK			1.68 V	175	81.5	30.5
2	*2462.00	104.6 AV			1.68 V	175	74.1	30.5
3	2483.50	66.4 PK	74.0	-7.6	1.68 V	175	36.0	30.4
4	2483.50	53.6 AV	54.0	-0.4	1.68 V	175	23.2	30.4
5	4924.00	43.4 PK	74.0	-30.6	1.84 V	281	59.6	-16.2
6	4924.00	32.7 AV	54.0	-21.3	1.84 V	281	48.9	-16.2

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.

RF Mode	TX 802.11g	Channel	CH 12 : 2467 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	*2467.00	102.6 PK			3.11 H	246	72.2	30.4
2	*2467.00	95.1 AV			3.11 H	246	64.7	30.4
3	2483.50	59.6 PK	74.0	-14.4	3.11 H	246	29.2	30.4
4	2483.50	48.3 AV	54.0	-5.7	3.11 H	246	17.9	30.4
5	4934.00	42.6 PK	74.0	-31.4	3.25 H	232	58.8	-16.2
6	4934.00	32.2 AV	54.0	-21.8	3.25 H	232	48.4	-16.2

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	*2467.00	110.2 PK			1.64 V	174	79.8	30.4
2	*2467.00	102.8 AV			1.64 V	174	72.4	30.4
3	2483.50	67.4 PK	74.0	-6.6	1.64 V	174	37.0	30.4
4	2483.50	53.8 AV	54.0	-0.2	1.64 V	174	23.4	30.4
5	4934.00	43.1 PK	74.0	-30.9	3.96 V	45	59.3	-16.2
6	4934.00	32.5 AV	54.0	-21.5	3.96 V	45	48.7	-16.2

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.

RF Mode	TX 802.11g	Channel	CH 13 : 2472 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	*2472.00	102.6 PK			3.11 H	246	72.2	30.4
2	*2472.00	95.1 AV			3.11 H	246	64.7	30.4
3	2483.50	59.6 PK	74.0	-14.4	3.11 H	246	29.2	30.4
4	2483.50	48.3 AV	54.0	-5.7	3.11 H	246	17.9	30.4
5	4934.00	42.6 PK	74.0	-31.4	3.25 H	232	58.8	-16.2
6	4934.00	32.2 AV	54.0	-21.8	3.25 H	232	48.4	-16.2

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	*2472.00	98.2 PK			1.65 V	177	67.8	30.4
2	*2472.00	90.5 AV			1.65 V	177	60.1	30.4
3	2483.50	66.1 PK	74.0	-7.9	1.65 V	177	35.7	30.4
4	2483.50	52.7 AV	54.0	-1.3	1.65 V	177	22.3	30.4
5	4944.00	43.0 PK	74.0	-31.0	1.62 V	336	59.2	-16.2
6	4944.00	32.7 AV	54.0	-21.3	1.62 V	336	48.9	-16.2

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.

RF Mode	TX 802.11ax (HE20)	Channel	CH 1 : 2412 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	60.1 PK	74.0	-13.9	3.34 H	243	29.7	30.4
2	2390.00	47.5 AV	54.0	-6.5	3.34 H	243	17.1	30.4
3	*2412.00	106.7 PK			3.34 H	243	76.3	30.4
4	*2412.00	94.1 AV			3.34 H	243	63.7	30.4
5	4824.00	43.0 PK	74.0	-31.0	1.03 H	185	59.1	-16.1
6	4824.00	33.0 AV	54.0	-21.0	1.03 H	185	49.1	-16.1

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	64.2 PK	74.0	-9.8	1.56 V	173	33.8	30.4
2	2390.00	51.6 AV	54.0	-2.4	1.56 V	173	21.2	30.4
3	*2412.00	114.7 PK			1.56 V	173	84.3	30.4
4	*2412.00	102.4 AV			1.56 V	173	72.0	30.4
5	4824.00	43.3 PK	74.0	-30.7	1.90 V	77	59.4	-16.1
6	4824.00	33.2 AV	54.0	-20.8	1.90 V	77	49.3	-16.1

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.

RF Mode	TX 802.11ax (HE20)	Channel	CH 2 : 2417 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	58.5 PK	74.0	-15.5	3.33 H	235	28.1	30.4
2	2390.00	46.2 AV	54.0	-7.8	3.33 H	235	15.8	30.4
3	*2417.00	108.3 PK			3.33 H	235	77.8	30.5
4	*2417.00	95.8 AV			3.33 H	235	65.3	30.5
5	4834.00	43.7 PK	74.0	-30.3	2.36 H	39	59.7	-16.0
6	4834.00	32.7 AV	54.0	-21.3	2.36 H	39	48.7	-16.0

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	63.2 PK	74.0	-10.8	1.57 V	173	32.8	30.4
2	2390.00	50.7 AV	54.0	-3.3	1.57 V	173	20.3	30.4
3	*2417.00	116.0 PK			1.57 V	173	85.5	30.5
4	*2417.00	104.2 AV			1.57 V	173	73.7	30.5
5	4834.00	43.8 PK	74.0	-30.2	2.11 V	313	59.8	-16.0
6	4834.00	33.1 AV	54.0	-20.9	2.11 V	313	49.1	-16.0

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.

RF Mode	TX 802.11ax (HE20)	Channel	CH 6 : 2437 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	109.9 PK			3.30 H	241	79.4	30.5
2	*2437.00	98.1 AV			3.30 H	241	67.6	30.5
3	4874.00	42.6 PK	74.0	-31.4	1.67 H	294	58.7	-16.1
4	4874.00	32.6 AV	54.0	-21.4	1.67 H	294	48.7	-16.1
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	117.5 PK			1.71 V	174	87.0	30.5
2	*2437.00	105.9 AV			1.71 V	174	75.4	30.5
3	4874.00	43.1 PK	74.0	-30.9	3.97 V	283	59.2	-16.1
4	4874.00	33.0 AV	54.0	-21.0	3.97 V	283	49.1	-16.1

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.

RF Mode	TX 802.11ax (HE20)	Channel	CH 10 : 2457 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	*2457.00	107.4 PK			3.23 H	240	76.9	30.5
2	*2457.00	95.2 AV			3.23 H	240	64.7	30.5
3	2483.50	61.9 PK	74.0	-12.1	3.23 H	240	31.5	30.4
4	2483.50	48.4 AV	54.0	-5.6	3.23 H	240	18.0	30.4
5	4914.00	43.1 PK	74.0	-30.9	2.95 H	247	59.3	-16.2
6	4914.00	32.8 AV	54.0	-21.2	2.95 H	247	49.0	-16.2

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	*2457.00	115.1 PK			1.55 V	173	84.6	30.5
2	*2457.00	103.5 AV			1.55 V	173	73.0	30.5
3	2483.50	64.3 PK	74.0	-9.7	1.55 V	173	33.9	30.4
4	2483.50	50.8 AV	54.0	-3.2	1.55 V	173	20.4	30.4
5	4914.00	43.6 PK	74.0	-30.4	2.01 V	344	59.8	-16.2
6	4914.00	32.3 AV	54.0	-21.7	2.01 V	344	48.5	-16.2

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.

RF Mode	TX 802.11ax (HE20)	Channel	CH 11 : 2462 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	106.3 PK			3.23 H	238	75.8	30.5
2	*2462.00	93.9 AV			3.23 H	238	63.4	30.5
3	2483.50	61.6 PK	74.0	-12.4	3.23 H	238	31.2	30.4
4	2483.50	48.9 AV	54.0	-5.1	3.23 H	238	18.5	30.4
5	4924.00	43.7 PK	74.0	-30.3	1.75 H	122	59.9	-16.2
6	4924.00	32.6 AV	54.0	-21.4	1.75 H	122	48.8	-16.2
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	113.9 PK			1.55 V	173	83.4	30.5
2	*2462.00	102.2 AV			1.55 V	173	71.7	30.5
3	2483.50	66.2 PK	74.0	-7.8	1.55 V	173	35.8	30.4
4	2483.50	52.2 AV	54.0	-1.8	1.55 V	173	21.8	30.4
5	4924.00	44.0 PK	74.0	-30.0	2.86 V	143	60.2	-16.2
6	4924.00	33.1 AV	54.0	-20.9	2.86 V	143	49.3	-16.2

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.

RF Mode	TX 802.11ax (HE20)	Channel	CH 12 : 2467 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	*2467.00	105.5 PK			3.19 H	238	75.1	30.4
2	*2467.00	93.3 AV			3.19 H	238	62.9	30.4
3	2483.50	62.2 PK	74.0	-11.8	3.19 H	238	31.8	30.4
4	2483.50	49.6 AV	54.0	-4.4	3.19 H	238	19.2	30.4
5	4934.00	42.9 PK	74.0	-31.1	2.45 H	29	59.1	-16.2
6	4934.00	32.6 AV	54.0	-21.4	2.45 H	29	48.8	-16.2

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	*2467.00	113.0 PK			1.53 V	173	82.6	30.4
2	*2467.00	101.5 AV			1.53 V	173	71.1	30.4
3	2483.50	65.6 PK	74.0	-8.4	1.53 V	173	35.2	30.4
4	2483.50	51.8 AV	54.0	-2.2	1.53 V	173	21.4	30.4
5	4934.00	43.4 PK	74.0	-30.6	2.66 V	324	59.6	-16.2
6	4934.00	32.9 AV	54.0	-21.1	2.66 V	324	49.1	-16.2

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.

RF Mode	TX 802.11ax (HE20)	Channel	CH 13 : 2472 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	*2472.00	94.1 PK			3.20 H	238	63.7	30.4
2	*2472.00	81.7 AV			3.20 H	238	51.3	30.4
3	2483.50	63.6 PK	74.0	-10.4	3.20 H	238	33.2	30.4
4	2483.50	48.0 AV	54.0	-6.0	3.20 H	238	17.6	30.4
5	4944.00	43.1 PK	74.0	-30.9	3.12 H	228	59.3	-16.2
6	4944.00	32.2 AV	54.0	-21.8	3.12 H	228	48.4	-16.2

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	*2472.00	102.0 PK			1.50 V	173	71.6	30.4
2	*2472.00	90.0 AV			1.50 V	173	59.6	30.4
3	2483.50	70.0 PK	74.0	-4.0	1.50 V	173	39.6	30.4
4	2483.50	52.6 AV	54.0	-1.4	1.50 V	173	22.2	30.4
5	4944.00	43.7 PK	74.0	-30.3	2.58 V	176	59.9	-16.2
6	4944.00	32.6 AV	54.0	-21.4	2.58 V	176	48.8	-16.2

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.

RF Mode	TX 802.11ax (HE40)	Channel	CH 3 : 2422 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	58.7 PK	74.0	-15.3	3.33 H	238	28.3	30.4
2	2390.00	45.8 AV	54.0	-8.2	3.33 H	238	15.4	30.4
3	*2422.00	103.2 PK			3.33 H	238	72.7	30.5
4	*2422.00	91.7 AV			3.33 H	238	61.2	30.5
5	4844.00	43.2 PK	74.0	-30.8	1.66 H	111	59.3	-16.1
6	4844.00	32.9 AV	54.0	-21.1	1.66 H	111	49.0	-16.1

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	2380.00	63.9 PK	74.0	-10.1	1.54 V	175	33.4	30.5
2	2380.00	49.5 AV	54.0	-4.5	1.54 V	175	19.0	30.5
3	*2422.00	110.8 PK			1.54 V	175	80.3	30.5
4	*2422.00	99.2 AV			1.54 V	175	68.7	30.5
5	4844.00	43.8 PK	74.0	-30.2	3.83 V	320	59.9	-16.1
6	4844.00	33.4 AV	54.0	-20.6	3.83 V	320	49.5	-16.1

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.

RF Mode	TX 802.11ax (HE40)	Channel	CH 4 : 2427 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	59.2 PK	74.0	-14.8	3.30 H	238	28.8	30.4
2	2390.00	46.7 AV	54.0	-7.3	3.30 H	238	16.3	30.4
3	*2427.00	103.8 PK			3.30 H	238	73.3	30.5
4	*2427.00	92.2 AV			3.30 H	238	61.7	30.5
5	4854.00	43.1 PK	74.0	-30.9	2.82 H	177	59.2	-16.1
6	4854.00	32.6 AV	54.0	-21.4	2.82 H	177	48.7	-16.1

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	2386.00	63.2 PK	74.0	-10.8	1.71 V	174	32.8	30.4
2	2386.00	50.6 AV	54.0	-3.4	1.71 V	174	20.2	30.4
3	*2427.00	111.6 PK			1.71 V	174	81.1	30.5
4	*2427.00	99.5 AV			1.71 V	174	69.0	30.5
5	4854.00	44.0 PK	74.0	-30.0	3.85 V	352	60.1	-16.1
6	4854.00	33.5 AV	54.0	-20.5	3.85 V	352	49.6	-16.1

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.

RF Mode	TX 802.11ax (HE40)	Channel	CH 6 : 2437 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	105.5 PK			3.27 H	237	75.0	30.5
2	*2437.00	93.1 AV			3.27 H	237	62.6	30.5
3	4874.00	42.8 PK	74.0	-31.2	3.98 H	239	58.9	-16.1
4	4874.00	32.9 AV	54.0	-21.1	3.98 H	239	49.0	-16.1
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	113.3 PK			1.56 V	174	82.8	30.5
2	*2437.00	100.1 AV			1.56 V	174	69.6	30.5
3	4874.00	43.0 PK	74.0	-31.0	2.10 V	347	59.1	-16.1
4	4874.00	33.1 AV	54.0	-20.9	2.10 V	347	49.2	-16.1

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.

RF Mode	TX 802.11ax (HE40)	Channel	CH 8 : 2447 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	*2447.00	104.2 PK			3.26 H	238	73.7	30.5
2	*2447.00	92.4 AV			3.26 H	238	61.9	30.5
3	2483.50	60.8 PK	74.0	-13.2	3.26 H	238	30.4	30.4
4	2483.50	48.7 AV	54.0	-5.3	3.26 H	238	18.3	30.4
5	4894.00	42.9 PK	74.0	-31.1	2.99 H	102	59.0	-16.1
6	4894.00	32.7 AV	54.0	-21.3	2.99 H	102	48.8	-16.1

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	*2447.00	111.8 PK			1.72 V	174	81.3	30.5
2	*2447.00	99.1 AV			1.72 V	174	68.6	30.5
3	2486.00	66.4 PK	74.0	-7.6	1.72 V	174	36.0	30.4
4	2486.00	51.9 AV	54.0	-2.1	1.72 V	174	21.5	30.4
5	4894.00	43.1 PK	74.0	-30.9	3.31 V	42	59.2	-16.1
6	4894.00	33.0 AV	54.0	-21.0	3.31 V	42	49.1	-16.1

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.

RF Mode	TX 802.11ax (HE40)	Channel	CH 9 : 2452 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	103.0 PK			3.26 H	238	72.5	30.5
2	*2452.00	92.0 AV			3.26 H	238	61.5	30.5
3	2483.50	61.5 PK	74.0	-12.5	3.26 H	238	31.1	30.4
4	2483.50	49.9 AV	54.0	-4.1	3.26 H	238	19.5	30.4
5	4904.00	42.5 PK	74.0	-31.5	1.61 H	238	58.6	-16.1
6	4904.00	32.8 AV	54.0	-21.2	1.61 H	238	48.9	-16.1

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	110.6 PK			1.70 V	174	80.1	30.5
2	*2452.00	99.1 AV			1.70 V	174	68.6	30.5
3	2483.50	66.8 PK	74.0	-7.2	1.70 V	174	36.4	30.4
4	2483.50	53.4 AV	54.0	-0.6	1.70 V	174	23.0	30.4
5	4904.00	44.2 PK	74.0	-29.8	3.19 V	111	60.3	-16.1
6	4904.00	33.2 AV	54.0	-20.8	3.19 V	111	49.3	-16.1

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.

RF Mode	TX 802.11ax (HE40)	Channel	CH 10 : 2457 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	*2457.00	102.3 PK			3.24 H	239	71.8	30.5
2	*2457.00	91.0 AV			3.24 H	239	60.5	30.5
3	2483.50	61.5 PK	74.0	-12.5	3.24 H	239	31.1	30.4
4	2483.50	48.4 AV	54.0	-5.6	3.24 H	239	18.0	30.4
5	4914.00	42.9 PK	74.0	-31.1	3.17 H	315	59.1	-16.2
6	4914.00	32.6 AV	54.0	-21.4	3.17 H	315	48.8	-16.2

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	*2457.00	110.1 PK			1.69 V	183	79.6	30.5
2	*2457.00	98.2 AV			1.69 V	183	67.7	30.5
3	2483.50	64.3 PK	74.0	-9.7	1.69 V	183	33.9	30.4
4	2483.50	52.0 AV	54.0	-2.0	1.69 V	183	21.6	30.4
5	4914.00	43.6 PK	74.0	-30.4	3.66 V	86	59.8	-16.2
6	4914.00	33.2 AV	54.0	-20.8	3.66 V	86	49.4	-16.2

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.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 11 : 2462 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	92.8 PK			3.23 H	239	62.3	30.5
2	*2462.00	81.1 AV			3.23 H	239	50.6	30.5
3	2483.50	60.4 PK	74.0	-13.6	3.23 H	239	30.0	30.4
4	2483.50	47.4 AV	54.0	-6.6	3.23 H	239	17.0	30.4
5	4924.00	42.8 PK	74.0	-31.2	2.83 H	218	59.0	-16.2
6	4924.00	33.1 AV	54.0	-20.9	2.83 H	218	49.3	-16.2

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	100.3 PK			1.70 V	178	69.8	30.5
2	*2462.00	88.4 AV			1.70 V	178	57.9	30.5
3	2483.50	65.4 PK	74.0	-8.6	1.70 V	178	35.0	30.4
4	2483.50	51.5 AV	54.0	-2.5	1.70 V	178	21.1	30.4
5	4924.00	44.3 PK	74.0	-29.7	2.78 V	237	60.5	-16.2
6	4924.00	33.4 AV	54.0	-20.6	2.78 V	237	49.6	-16.2

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.

RF Mode	TX 20MHz Preamble 802.11ax (RU26)	Channel	CH 1 : 2412 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	60.6 PK	74.0	-13.4	1.48 H	49	30.2	30.4
2	2390.00	45.7 AV	54.0	-8.3	1.48 H	49	15.3	30.4
3	*2412.00	106.4 PK			1.48 H	49	76.0	30.4
4	*2412.00	97.2 AV			1.48 H	49	66.8	30.4
5	4824.00	42.7 PK	74.0	-31.3	2.39 H	187	58.8	-16.1
6	4824.00	32.6 AV	54.0	-21.4	2.39 H	187	48.7	-16.1

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	70.8 PK	74.0	-3.2	1.59 V	198	40.4	30.4
2	2390.00	50.2 AV	54.0	-3.8	1.59 V	198	19.8	30.4
3	*2412.00	117.4 PK			1.59 V	198	87.0	30.4
4	*2412.00	108.0 AV			1.59 V	198	77.6	30.4
5	4824.00	42.9 PK	74.0	-31.1	3.79 V	164	59.0	-16.1
6	4824.00	32.8 AV	54.0	-21.2	3.79 V	164	48.9	-16.1

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.

RF Mode	TX 20MHz Preamble 802.11ax (RU26)	Channel	CH 2 : 2417 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	59.9 PK	74.0	-14.1	2.20 H	49	29.5	30.4
2	2390.00	45.8 AV	54.0	-8.2	2.20 H	49	15.4	30.4
3	*2417.00	106.4 PK			2.20 H	49	75.9	30.5
4	*2417.00	97.5 AV			2.20 H	49	67.0	30.5
5	4834.00	41.5 PK	74.0	-32.5	1.36 H	227	57.5	-16.0
6	4834.00	31.2 AV	54.0	-22.8	1.36 H	227	47.2	-16.0

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	70.7 PK	74.0	-3.3	1.57 V	199	40.3	30.4
2	2390.00	50.7 AV	54.0	-3.3	1.57 V	199	20.3	30.4
3	*2417.00	118.4 PK			1.57 V	199	87.9	30.5
4	*2417.00	109.1 AV			1.57 V	199	78.6	30.5
5	4834.00	42.4 PK	74.0	-31.6	3.25 V	166	58.4	-16.0
6	4834.00	32.2 AV	54.0	-21.8	3.25 V	166	48.2	-16.0

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.

RF Mode	TX 20MHz Preamble 802.11ax (RU26)	Channel	CH 6 : 2437 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	107.8 PK			2.11 H	49	77.3	30.5
2	*2437.00	99.1 AV			2.11 H	49	68.6	30.5
3	4874.00	41.3 PK	74.0	-32.7	3.21 H	167	57.4	-16.1
4	4874.00	31.5 AV	54.0	-22.5	3.21 H	167	47.6	-16.1
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	121.4 PK			1.68 V	347	90.9	30.5
2	*2437.00	112.1 AV			1.68 V	347	81.6	30.5
3	4874.00	42.5 PK	74.0	-31.5	2.32 V	158	58.6	-16.1
4	4874.00	32.2 AV	54.0	-21.8	2.32 V	158	48.3	-16.1

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.

RF Mode	TX 20MHz Preamble 802.11ax (RU26)	Channel	CH 10 : 2457 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	*2457.00	108.4 PK			3.17 H	238	77.9	30.5
2	*2457.00	99.1 AV			3.17 H	238	68.6	30.5
3	2483.50	63.2 PK	74.0	-10.8	3.17 H	238	32.8	30.4
4	2483.50	46.8 AV	54.0	-7.2	3.17 H	238	16.4	30.4
5	4914.00	41.2 PK	74.0	-32.8	3.67 H	289	57.4	-16.2
6	4914.00	31.1 AV	54.0	-22.9	3.67 H	289	47.3	-16.2

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	*2457.00	117.3 PK			1.85 V	166	86.8	30.5
2	*2457.00	107.2 AV			1.85 V	166	76.7	30.5
3	2483.50	66.1 PK	74.0	-7.9	1.85 V	166	35.7	30.4
4	2483.50	48.0 AV	54.0	-6.0	1.85 V	166	17.6	30.4
5	4914.00	42.2 PK	74.0	-31.8	3.52 V	187	58.4	-16.2
6	4914.00	32.1 AV	54.0	-21.9	3.52 V	187	48.3	-16.2

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.

RF Mode	TX 20MHz Preamble 802.11ax (RU26)	Channel	CH 11 : 2462 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	108.4 PK			3.20 H	251	77.9	30.5
2	*2462.00	98.9 AV			3.20 H	251	68.4	30.5
3	2483.50	62.2 PK	74.0	-11.8	3.20 H	251	31.8	30.4
4	2483.50	46.6 AV	54.0	-7.4	3.20 H	251	16.2	30.4
5	4924.00	41.4 PK	74.0	-32.6	1.63 H	258	57.6	-16.2
6	4924.00	31.2 AV	54.0	-22.8	1.63 H	258	47.4	-16.2

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	117.8 PK			1.85 V	165	87.3	30.5
2	*2462.00	107.8 AV			1.85 V	165	77.3	30.5
3	2483.50	68.0 PK	74.0	-6.0	1.85 V	165	37.6	30.4
4	2483.50	49.7 AV	54.0	-4.3	1.85 V	165	19.3	30.4
5	4924.00	42.2 PK	74.0	-31.8	2.36 V	174	58.4	-16.2
6	4924.00	32.4 AV	54.0	-21.6	2.36 V	174	48.6	-16.2

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.

RF Mode	TX 20MHz Preamble 802.11ax (RU26)	Channel	CH 12 : 2467 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	*2467.00	105.6 PK			3.12 H	249	75.2	30.4
2	*2467.00	96.5 AV			3.12 H	249	66.1	30.4
3	2483.50	60.6 PK	74.0	-13.4	3.12 H	249	30.2	30.4
4	2483.50	46.6 AV	54.0	-7.4	3.12 H	249	16.2	30.4
5	4934.00	41.4 PK	74.0	-32.6	3.78 H	196	57.6	-16.2
6	4934.00	31.3 AV	54.0	-22.7	3.78 H	196	47.5	-16.2

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	*2467.00	114.7 PK			1.50 V	351	84.3	30.4
2	*2467.00	104.8 AV			1.50 V	351	74.4	30.4
3	2483.50	66.8 PK	74.0	-7.2	1.50 V	351	36.4	30.4
4	2483.50	50.0 AV	54.0	-4.0	1.50 V	351	19.6	30.4
5	4934.00	42.2 PK	74.0	-31.8	2.32 V	197	58.4	-16.2
6	4934.00	32.1 AV	54.0	-21.9	2.32 V	197	48.3	-16.2

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.

RF Mode	TX 20MHz Preamble 802.11ax (RU26)	Channel	CH 13 : 2472 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	*2472.00	82.3 PK			3.16 H	250	51.9	30.4
2	*2472.00	73.0 AV			3.16 H	250	42.6	30.4
3	2483.50	60.3 PK	74.0	-13.7	3.16 H	250	29.9	30.4
4	2483.50	46.2 AV	54.0	-7.8	3.16 H	250	15.8	30.4
5	4944.00	41.4 PK	74.0	-32.6	3.25 H	297	57.6	-16.2
6	4944.00	31.1 AV	54.0	-22.9	3.25 H	297	47.3	-16.2

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	*2472.00	92.9 PK			1.65 V	187	62.5	30.4
2	*2472.00	83.2 AV			1.65 V	187	52.8	30.4
3	2483.50	70.4 PK	74.0	-3.6	1.65 V	187	40.0	30.4
4	2483.50	51.3 AV	54.0	-2.7	1.65 V	187	20.9	30.4
5	4944.00	42.2 PK	74.0	-31.8	2.32 V	198	58.4	-16.2
6	4944.00	32.4 AV	54.0	-21.6	2.32 V	198	48.6	-16.2

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.

RF Mode	TX 20MHz Preamble 802.11ax (RU52)	Channel	CH 1 : 2412 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	59.3 PK	74.0	-14.7	3.75 H	245	28.9	30.4
2	2390.00	46.4 AV	54.0	-7.6	3.75 H	245	16.0	30.4
3	*2412.00	109.1 PK			3.75 H	245	78.7	30.4
4	*2412.00	98.6 AV			3.75 H	245	68.2	30.4
5	4824.00	41.3 PK	74.0	-32.7	1.63 H	41	57.4	-16.1
6	4824.00	31.2 AV	54.0	-22.8	1.63 H	41	47.3	-16.1

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	67.0 PK	74.0	-7.0	1.73 V	173	36.6	30.4
2	2390.00	50.9 AV	54.0	-3.1	1.73 V	173	20.5	30.4
3	*2412.00	117.4 PK			1.73 V	173	87.0	30.4
4	*2412.00	106.9 AV			1.73 V	173	76.5	30.4
5	4824.00	42.3 PK	74.0	-31.7	3.69 V	228	58.4	-16.1
6	4824.00	32.2 AV	54.0	-21.8	3.69 V	228	48.3	-16.1

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.

RF Mode	TX 20MHz Preamble 802.11ax (RU52)	Channel	CH 2 : 2417 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	62.9 PK	74.0	-11.1	3.31 H	244	32.5	30.4
2	2390.00	46.9 AV	54.0	-7.1	3.31 H	244	16.5	30.4
3	*2417.00	110.1 PK			3.31 H	244	79.6	30.5
4	*2417.00	101.0 AV			3.31 H	244	70.5	30.5
5	4834.00	41.4 PK	74.0	-32.6	2.73 H	333	57.4	-16.0
6	4834.00	31.3 AV	54.0	-22.7	2.73 H	333	47.3	-16.0

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	66.8 PK	74.0	-7.2	1.71 V	178	36.4	30.4
2	2390.00	49.2 AV	54.0	-4.8	1.71 V	178	18.8	30.4
3	*2417.00	116.8 PK			1.71 V	178	86.3	30.5
4	*2417.00	107.3 AV			1.71 V	178	76.8	30.5
5	4834.00	42.4 PK	74.0	-31.6	3.97 V	145	58.4	-16.0
6	4834.00	32.6 AV	54.0	-21.4	3.97 V	145	48.6	-16.0

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.

RF Mode	TX 20MHz Preamble 802.11ax (RU52)	Channel	CH 6 : 2437 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	110.4 PK			3.24 H	244	79.9	30.5
2	*2437.00	101.0 AV			3.24 H	244	70.5	30.5
3	4874.00	41.3 PK	74.0	-32.7	1.11 H	166	57.4	-16.1
4	4874.00	31.2 AV	54.0	-22.8	1.11 H	166	47.3	-16.1
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	119.3 PK			1.72 V	172	88.8	30.5
2	*2437.00	108.6 AV			1.72 V	172	78.1	30.5
3	4874.00	42.3 PK	74.0	-31.7	2.36 V	321	58.4	-16.1
4	4874.00	31.5 AV	54.0	-22.5	2.36 V	321	47.6	-16.1

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.

RF Mode	TX 20MHz Preamble 802.11ax (RU52)	Channel	CH 10 : 2457 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	*2457.00	107.1 PK			3.16 H	245	76.6	30.5
2	*2457.00	97.5 AV			3.16 H	245	67.0	30.5
3	2483.50	61.5 PK	74.0	-12.5	3.16 H	245	31.1	30.4
4	2483.50	46.5 AV	54.0	-7.5	3.16 H	245	16.1	30.4
5	4914.00	41.2 PK	74.0	-32.8	2.32 H	188	57.4	-16.2
6	4914.00	31.1 AV	54.0	-22.9	2.32 H	188	47.3	-16.2

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	*2457.00	115.5 PK			1.71 V	187	85.0	30.5
2	*2457.00	105.5 AV			1.71 V	187	75.0	30.5
3	2483.50	69.6 PK	74.0	-4.4	1.71 V	187	39.2	30.4
4	2483.50	49.4 AV	54.0	-4.6	1.71 V	187	19.0	30.4
5	4914.00	42.2 PK	74.0	-31.8	3.87 V	168	58.4	-16.2
6	4914.00	32.1 AV	54.0	-21.9	3.87 V	168	48.3	-16.2

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.

RF Mode	TX 20MHz Preamble 802.11ax (RU52)	Channel	CH 11 : 2462 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	105.9 PK			3.53 H	249	75.4	30.5
2	*2462.00	96.3 AV			3.53 H	249	65.8	30.5
3	2483.50	62.0 PK	74.0	-12.0	3.53 H	249	31.6	30.4
4	2483.50	46.5 AV	54.0	-7.5	3.53 H	249	16.1	30.4
5	4924.00	41.2 PK	74.0	-32.8	2.56 H	178	57.4	-16.2
6	4924.00	31.4 AV	54.0	-22.6	2.56 H	178	47.6	-16.2

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	114.4 PK			1.67 V	183	83.9	30.5
2	*2462.00	105.1 AV			1.67 V	183	74.6	30.5
3	2483.50	68.5 PK	74.0	-5.5	1.67 V	183	38.1	30.4
4	2483.50	49.4 AV	54.0	-4.6	1.67 V	183	19.0	30.4
5	4924.00	42.2 PK	74.0	-31.8	3.74 V	112	58.4	-16.2
6	4924.00	32.1 AV	54.0	-21.9	3.74 V	112	48.3	-16.2

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.

RF Mode	TX 20MHz Preamble 802.11ax (RU52)	Channel	CH 12 : 2467 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	*2467.00	102.9 PK			3.14 H	246	72.5	30.4
2	*2467.00	93.4 AV			3.14 H	246	63.0	30.4
3	2483.50	57.7 PK	74.0	-16.3	3.14 H	246	27.3	30.4
4	2483.50	46.1 AV	54.0	-7.9	3.14 H	246	15.7	30.4
5	4934.00	41.2 PK	74.0	-32.8	2.32 H	297	57.4	-16.2
6	4934.00	31.0 AV	54.0	-23.0	2.32 H	297	47.2	-16.2

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	*2467.00	111.4 PK			1.63 V	182	81.0	30.4
2	*2467.00	102.1 AV			1.63 V	182	71.7	30.4
3	2483.50	62.9 PK	74.0	-11.1	1.63 V	182	32.5	30.4
4	2483.50	48.1 AV	54.0	-5.9	1.63 V	182	17.7	30.4
5	4934.00	42.2 PK	74.0	-31.8	3.27 V	44	58.4	-16.2
6	4934.00	32.1 AV	54.0	-21.9	3.27 V	44	48.3	-16.2

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.

RF Mode	TX 20MHz Preamble 802.11ax (RU52)	Channel	CH 13 : 2472 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	*2472.00	83.9 PK			3.52 H	247	53.5	30.4
2	*2472.00	74.2 AV			3.52 H	247	43.8	30.4
3	2483.50	59.4 PK	74.0	-14.6	3.52 H	247	29.0	30.4
4	2483.50	46.3 AV	54.0	-7.7	3.52 H	247	15.9	30.4
5	4944.00	41.4 PK	74.0	-32.6	2.67 H	120	57.6	-16.2
6	4944.00	31.0 AV	54.0	-23.0	2.67 H	120	47.2	-16.2

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	*2472.00	92.2 PK			1.64 V	184	61.8	30.4
2	*2472.00	82.4 AV			1.64 V	184	52.0	30.4
3	2483.50	69.0 PK	74.0	-5.0	1.64 V	184	38.6	30.4
4	2483.50	50.4 AV	54.0	-3.6	1.64 V	184	20.0	30.4
5	4944.00	42.4 PK	74.0	-31.6	3.10 V	255	58.6	-16.2
6	4944.00	32.0 AV	54.0	-22.0	3.10 V	255	48.2	-16.2

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.

RF Mode	TX 20MHz Preamble 802.11ax (RU106)	Channel	CH 1 : 2412 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	61.4 PK	74.0	-12.6	3.32 H	245	31.0	30.4
2	2390.00	46.6 AV	54.0	-7.4	3.32 H	245	16.2	30.4
3	*2412.00	105.7 PK			3.32 H	245	75.3	30.4
4	*2412.00	95.8 AV			3.32 H	245	65.4	30.4
5	4824.00	40.6 PK	74.0	-33.4	2.61 H	171	56.7	-16.1
6	4824.00	32.0 AV	54.0	-22.0	2.61 H	171	48.1	-16.1

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	68.3 PK	74.0	-5.7	1.92 V	188	37.9	30.4
2	2390.00	49.4 AV	54.0	-4.6	1.92 V	188	19.0	30.4
3	*2412.00	114.6 PK			1.92 V	188	84.2	30.4
4	*2412.00	105.4 AV			1.92 V	188	75.0	30.4
5	4824.00	40.8 PK	74.0	-33.2	3.55 V	111	56.9	-16.1
6	4824.00	32.7 AV	54.0	-21.3	3.55 V	111	48.8	-16.1

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.

RF Mode	TX 20MHz Preamble 802.11ax (RU106)	Channel	CH 2 : 2417 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	63.7 PK	74.0	-10.3	3.30 H	245	33.3	30.4
2	2390.00	47.5 AV	54.0	-6.5	3.30 H	245	17.1	30.4
3	*2417.00	106.8 PK			3.30 H	245	76.3	30.5
4	*2417.00	96.6 AV			3.30 H	245	66.1	30.5
5	4834.00	41.7 PK	74.0	-32.3	3.30 H	245	57.7	-16.0
6	4834.00	32.8 AV	54.0	-21.2	3.30 H	245	48.8	-16.0

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	70.0 PK	74.0	-4.0	1.91 V	188	39.6	30.4
2	2390.00	50.8 AV	54.0	-3.2	1.91 V	188	20.4	30.4
3	*2417.00	114.9 PK			1.91 V	188	84.4	30.5
4	*2417.00	105.6 AV			1.91 V	188	75.1	30.5
5	4834.00	42.2 PK	74.0	-31.8	3.23 V	170	58.2	-16.0
6	4834.00	33.2 AV	54.0	-20.8	3.23 V	170	49.2	-16.0

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.

RF Mode	TX 20MHz Preamble 802.11ax (RU106)	Channel	CH 6 : 2437 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	108.6 PK			3.28 H	247	78.1	30.5
2	*2437.00	98.6 AV			3.28 H	247	68.1	30.5
3	4874.00	41.6 PK	74.0	-32.4	1.39 H	218	57.7	-16.1
4	4874.00	31.5 AV	54.0	-22.5	1.39 H	218	47.6	-16.1
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	116.5 PK			1.88 V	187	86.0	30.5
2	*2437.00	107.0 AV			1.88 V	187	76.5	30.5
3	4874.00	42.6 PK	74.0	-31.4	2.39 V	124	58.7	-16.1
4	4874.00	32.8 AV	54.0	-21.2	2.39 V	124	48.9	-16.1

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.

RF Mode	TX 20MHz Preamble 802.11ax (RU106)	Channel	CH 10 : 2457 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	*2457.00	105.0 PK			3.28 H	235	74.5	30.5
2	*2457.00	95.0 AV			3.28 H	235	64.5	30.5
3	2483.50	63.6 PK	74.0	-10.4	3.28 H	235	33.2	30.4
4	2483.50	46.5 AV	54.0	-7.5	3.28 H	235	16.1	30.4
5	4914.00	41.6 PK	74.0	-32.4	1.20 H	218	57.8	-16.2
6	4914.00	31.3 AV	54.0	-22.7	1.20 H	218	47.5	-16.2
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	*2457.00	114.2 PK			1.69 V	171	83.7	30.5
2	*2457.00	103.9 AV			1.69 V	171	73.4	30.5
3	2483.50	70.8 PK	74.0	-3.2	1.69 V	171	40.4	30.4
4	2483.50	49.9 AV	54.0	-4.1	1.69 V	171	19.5	30.4
5	4914.00	41.9 PK	74.0	-32.1	2.11 V	162	58.1	-16.2
6	4914.00	32.5 AV	54.0	-21.5	2.11 V	162	48.7	-16.2

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.

RF Mode	TX 20MHz Preamble 802.11ax (RU106)	Channel	CH 11 : 2462 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	104.4 PK			3.25 H	236	73.9	30.5
2	*2462.00	94.4 AV			3.25 H	236	63.9	30.5
3	2483.50	68.0 PK	74.0	-6.0	3.25 H	236	37.6	30.4
4	2483.50	48.3 AV	54.0	-5.7	3.25 H	236	17.9	30.4
5	4924.00	41.8 PK	74.0	-32.2	1.95 H	206	58.0	-16.2
6	4924.00	32.9 AV	54.0	-21.1	1.95 H	206	49.1	-16.2

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	113.6 PK			1.70 V	173	83.1	30.5
2	*2462.00	103.6 AV			1.70 V	173	73.1	30.5
3	2483.50	73.4 PK	74.0	-0.6	1.70 V	173	43.0	30.4
4	2483.50	52.2 AV	54.0	-1.8	1.70 V	173	21.8	30.4
5	4924.00	42.0 PK	74.0	-32.0	2.23 V	87	58.2	-16.2
6	4924.00	33.4 AV	54.0	-20.6	2.23 V	87	49.6	-16.2

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.

RF Mode	TX 20MHz Preamble 802.11ax (RU106)	Channel	CH 12 : 2467 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	*2467.00	102.2 PK			3.25 H	238	71.8	30.4
2	*2467.00	92.3 AV			3.25 H	238	61.9	30.4
3	2483.50	57.6 PK	74.0	-16.4	3.25 H	238	27.2	30.4
4	2483.50	46.6 AV	54.0	-7.4	3.25 H	238	16.2	30.4
5	4934.00	41.4 PK	74.0	-32.6	1.39 H	349	57.6	-16.2
6	4934.00	32.2 AV	54.0	-21.8	1.39 H	349	48.4	-16.2

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	*2467.00	111.4 PK			1.70 V	172	81.0	30.4
2	*2467.00	101.4 AV			1.70 V	172	71.0	30.4
3	2483.50	63.9 PK	74.0	-10.1	1.70 V	172	33.5	30.4
4	2483.50	48.8 AV	54.0	-5.2	1.70 V	172	18.4	30.4
5	4934.00	42.0 PK	74.0	-32.0	2.73 V	202	58.2	-16.2
6	4934.00	32.9 AV	54.0	-21.1	2.73 V	202	49.1	-16.2

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.

RF Mode	TX 20MHz Preamble 802.11ax (RU106)	Channel	CH 13 : 2472 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

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	*2472.00	82.6 PK			3.22 H	237	52.2	30.4
2	*2472.00	72.7 AV			3.22 H	237	42.3	30.4
3	2483.50	59.3 PK	74.0	-14.7	3.22 H	237	28.9	30.4
4	2483.50	46.0 AV	54.0	-8.0	3.22 H	237	15.6	30.4
5	4944.00	41.2 PK	74.0	-32.8	2.63 H	27	57.4	-16.2
6	4944.00	32.3 AV	54.0	-21.7	2.63 H	27	48.5	-16.2

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	*2472.00	91.6 PK			1.88 V	173	61.2	30.4
2	*2472.00	81.6 AV			1.88 V	173	51.2	30.4
3	2483.50	63.0 PK	74.0	-11.0	1.88 V	173	32.6	30.4
4	2483.50	47.3 AV	54.0	-6.7	1.88 V	173	16.9	30.4
5	4944.00	41.7 PK	74.0	-32.3	2.29 V	288	57.9	-16.2
6	4944.00	32.6 AV	54.0	-21.4	2.29 V	288	48.8	-16.2

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.

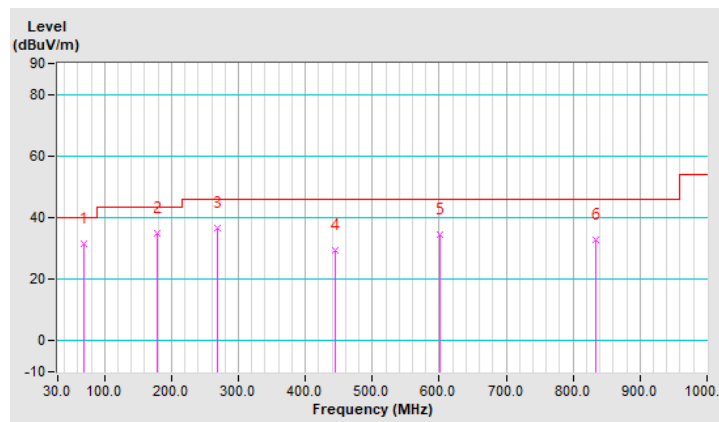
Below 1GHz worst-case data:

RF Mode	TX 802.11g	Channel	CH 6 : 2437 MHz
Frequency Range	30MHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

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	69.77	31.5 QP	40.0	-8.5	3.04 H	207	46.4	-14.9
2	178.43	34.8 QP	43.5	-8.7	2.40 H	28	48.9	-14.1
3	268.64	36.7 QP	46.0	-9.3	3.24 H	141	50.2	-13.5
4	444.23	29.6 QP	46.0	-16.4	1.13 H	267	37.1	-7.5
5	601.39	34.6 QP	46.0	-11.4	3.05 H	135	38.0	-3.4
6	833.24	33.0 QP	46.0	-13.0	3.27 H	216	32.0	1.0

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 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

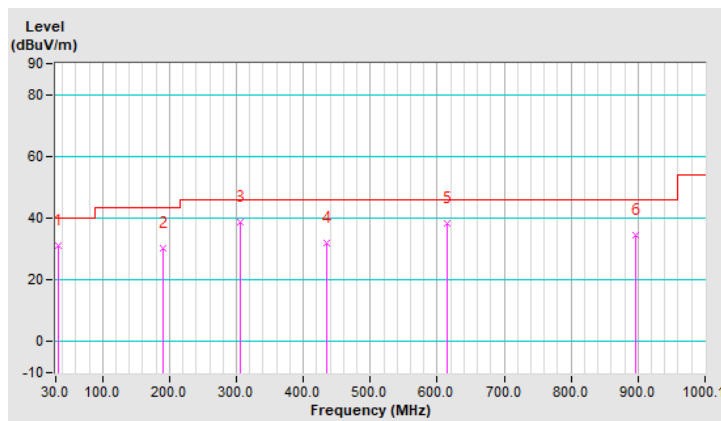


RF Mode	TX 802.11g	Channel	CH 6 : 2437 MHz
Frequency Range	30MHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

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	34.85	31.3 QP	40.0	-8.7	1.25 V	281	45.0	-13.7
2	190.07	30.3 QP	43.5	-13.2	2.14 V	262	45.8	-15.5
3	306.48	38.8 QP	46.0	-7.2	1.71 V	295	50.7	-11.9
4	435.50	32.1 QP	46.0	-13.9	2.60 V	359	39.8	-7.7
5	614.97	38.2 QP	46.0	-7.8	3.14 V	337	41.3	-3.1
6	897.27	34.5 QP	46.0	-11.5	1.65 V	268	33.0	1.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. Margin value = Emission Level – Limit value.
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

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

Note: 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 0.50MHz.

4.2.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESR3	102783	Dec. 20, 2021	Dec. 19, 2022
RF signal cable (with 10dB PAD) Woken	5D-FB	Cable-cond2-01	Sep. 04, 2021	Sep. 03, 2022
LISN ROHDE & SCHWARZ (EUT)	ESH2-Z5	100100	Feb. 17, 2022	Feb. 16, 2023
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100312	Sep. 17, 2021	Sep. 16, 2022
Software ADT	BV ADT_Cond_ V7.3.7.4	NA	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The test was performed in HwaYa Shielded Room 2.

3. The VCCI Site Registration No. is C-12047.

4.2.3 Test Procedures

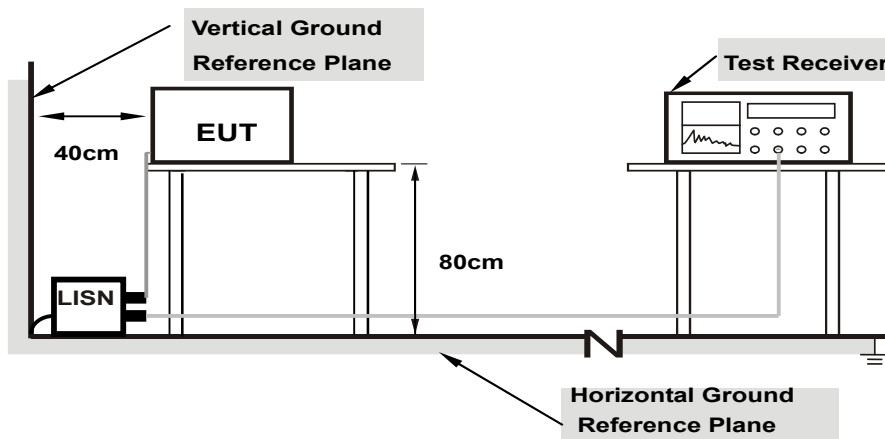
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance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

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

4.2.4 Deviation from Test Standard

No deviation.

4.2.5 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).

4.2.6 EUT Operating Conditions

Same as 4.1.6.

4.2.7 Test Results

Worst-case data:

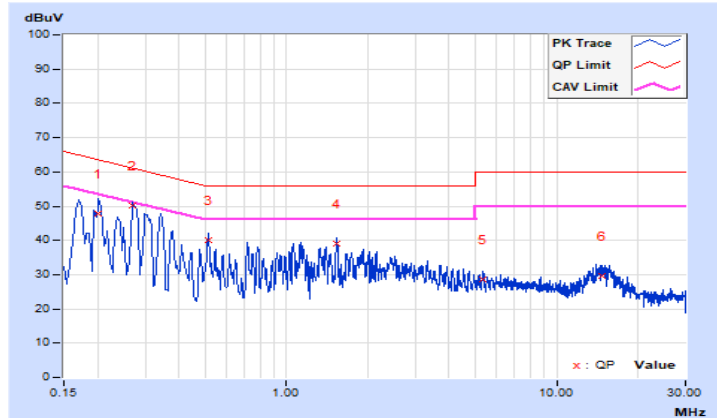
802.11g

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.20200	10.14	37.57	29.49	47.71	39.63	63.53	53.53	-15.82	-13.90
2	0.27000	10.15	40.16	36.51	50.31	46.66	61.12	51.12	-10.81	-4.46
3	0.51400	10.17	29.80	27.88	39.97	38.05	56.00	46.00	-16.03	-7.95
4	1.54200	10.21	28.97	24.14	39.18	34.35	56.00	46.00	-16.82	-11.65
5	5.33000	10.26	18.38	8.75	28.64	19.01	60.00	50.00	-31.36	-30.99
6	14.75000	10.33	19.43	15.43	29.76	25.76	60.00	50.00	-30.24	-24.24

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.

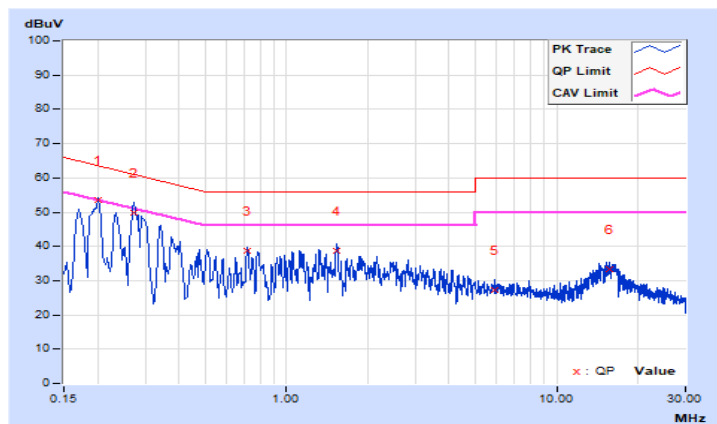


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.20200	10.15	43.26	35.67	53.41	45.82	63.53
2	0.27350	10.16	39.74	35.67	49.90	45.83	61.01	51.01	-11.11	-5.18
3	0.71734	10.19	28.48	25.84	38.67	36.03	56.00	46.00	-17.33	-9.97
4	1.53400	10.22	28.35	23.83	38.57	34.05	56.00	46.00	-17.43	-11.95
5	5.93400	10.30	17.11	7.07	27.41	17.37	60.00	50.00	-32.59	-32.63
6	15.76600	10.45	22.73	14.82	33.18	25.27	60.00	50.00	-26.82	-24.73

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.

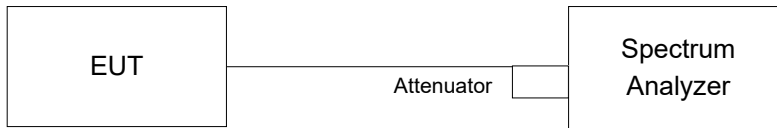


4.3 6dB Bandwidth Measurement

4.3.1 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

4.3.2 Test Setup



4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.3.4 Test Procedure

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

4.3.5 Deviation from Test Standard

No deviation.

4.3.6 EUT Operating Conditions

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.3.7 Test Result

802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	8.12	8.12	0.50	Pass
6	2437	8.56	8.12	0.50	Pass
11	2462	8.13	8.11	0.50	Pass
12	2467	8.12	8.13	0.50	Pass
13	2472	8.09	8.12	0.50	Pass

802.11g

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	15.19	15.20	0.50	Pass
2	2417	15.17	15.20	0.50	Pass
6	2437	15.20	15.18	0.50	Pass
10	2457	15.12	15.20	0.50	Pass
11	2462	15.19	15.16	0.50	Pass
12	2467	15.19	15.16	0.50	Pass
13	2472	15.17	15.16	0.50	Pass

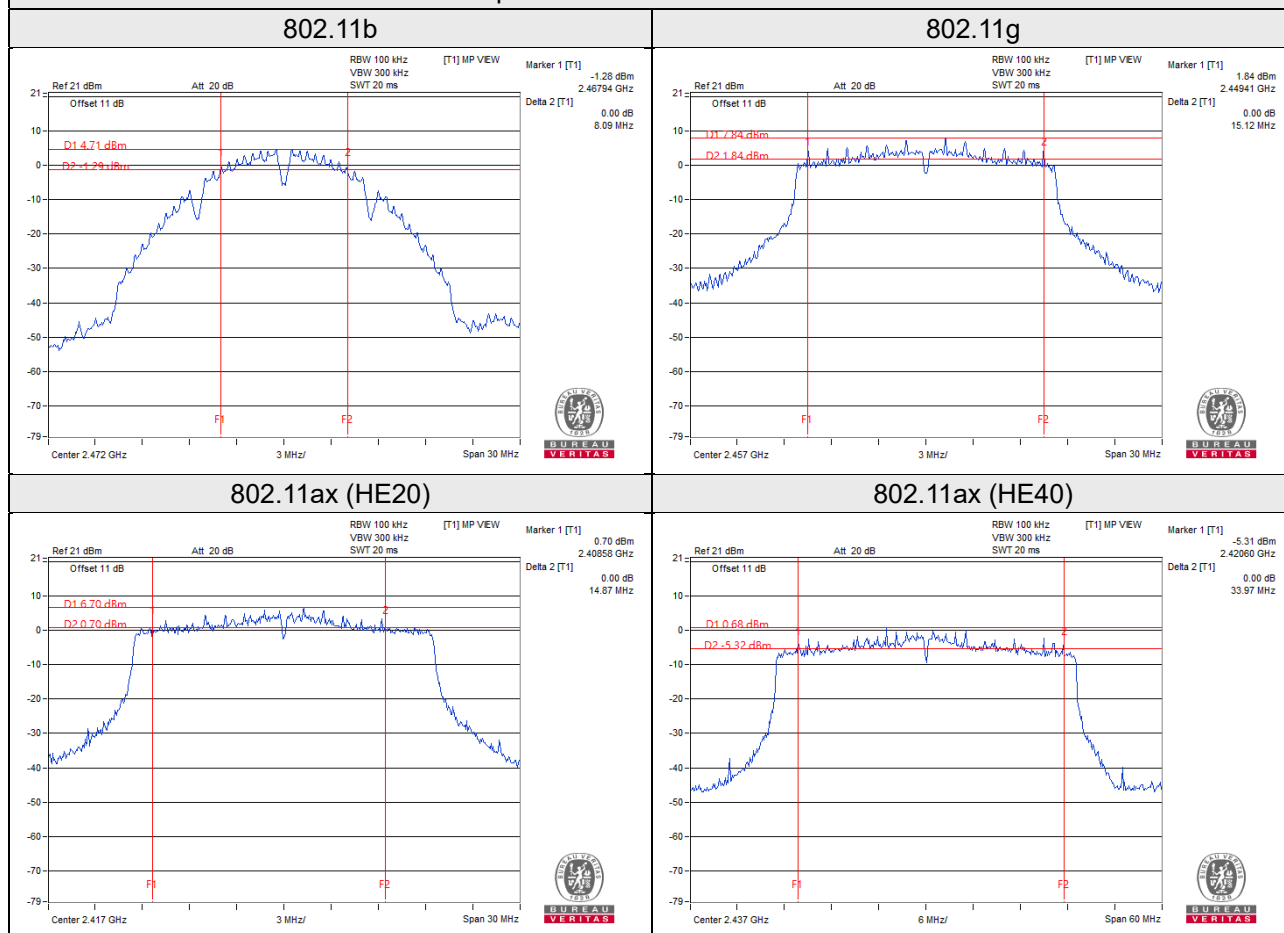
802.11ax (HE20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	18.49	15.79	0.50	Pass
2	2417	14.87	15.81	0.50	Pass
6	2437	15.94	17.59	0.50	Pass
10	2457	16.00	17.36	0.50	Pass
11	2462	15.86	17.53	0.50	Pass
12	2467	15.84	18.27	0.50	Pass
13	2472	15.91	16.36	0.50	Pass

802.11ax (HE40)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
3	2422	35.14	35.08	0.50	Pass
4	2427	35.63	33.97	0.50	Pass
6	2437	33.97	35.16	0.50	Pass
8	2447	34.43	37.42	0.50	Pass
9	2452	35.38	35.19	0.50	Pass
10	2457	36.32	37.92	0.50	Pass
11	2462	35.49	35.56	0.50	Pass

Spectrum Plot of Worst Value



4.4 Conducted Output Power Measurement

4.4.1 Limits of Conducted Output Power Measurement

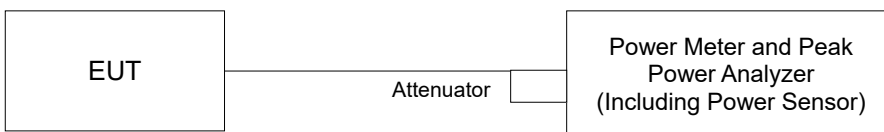
For systems using digital modulation in the 2400–2483.5 MHz bands: 1 Watt (30dBm)

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

Unequal antenna gains, with equal transmit powers.

If transmit signals are correlated, then directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]$ dBi
 [Note the “20”s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

4.4.2 Test Setup



4.4.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.4 Test Procedures

For Peak Power

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

For 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.

4.4.5 Deviation from Test Standard

No deviation.

4.4.6 EUT Operating Conditions

Same as item 4.3.6.

4.4.7 Test Results

For Peak Power

802.11b

Channel	Frequency (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	22.28	20.98	294.358	24.69	30.00	Pass
6	2437	23.41	21.99	377.405	25.77	30.00	Pass
11	2462	21.71	20.50	260.454	24.16	30.00	Pass
12	2467	20.22	18.53	176.481	22.47	30.00	Pass
13	2472	17.54	15.91	95.749	19.81	30.00	Pass

802.11g

Channel	Frequency (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	22.99	21.56	342.286	25.34	30.00	Pass
2	2417	22.96	22.03	357.285	25.53	30.00	Pass
6	2437	25.47	25.43	701.511	28.46	30.00	Pass
10	2457	23.53	22.66	409.925	26.13	30.00	Pass
11	2462	22.83	21.88	346.037	25.39	30.00	Pass
12	2467	20.95	19.23	208.204	23.18	30.00	Pass
13	2472	8.30	7.83	12.828	11.08	30.00	Pass

VHT20

Channel	Frequency (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	22.59	22.23	348.661	25.42	28.10	Pass
2	2417	22.98	22.75	386.974	25.88	28.10	Pass
6	2437	24.47	23.58	507.932	27.06	28.10	Pass
10	2457	22.73	21.86	340.961	25.33	28.10	Pass
11	2462	21.58	20.01	244.110	23.88	28.10	Pass
12	2467	20.60	18.72	189.289	22.77	28.10	Pass
13	2472	8.67	8.18	13.939	11.44	28.10	Pass

Note: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 7.90\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30 - (7.90 - 6) = 28.10\text{dBm}$.

VHT40

Channel	Frequency (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
3	2422	19.95	19.15	181.080	22.58	28.10	Pass
4	2427	20.68	19.47	205.462	23.13	28.10	Pass
6	2437	21.15	19.95	229.172	23.60	28.10	Pass
8	2447	20.63	19.69	208.722	23.20	28.10	Pass
9	2452	20.00	18.81	176.033	22.46	28.10	Pass
10	2457	19.13	17.62	139.656	21.45	28.10	Pass
11	2462	9.08	9.38	16.761	12.24	28.10	Pass

Note: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 7.90\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30 - (7.90 - 6) = 28.10\text{dBm}$.

802.11ax (HE20)

Channel	Frequency (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	22.99	22.63	382.299	25.82	28.10	Pass
2	2417	23.21	22.98	408.021	26.11	28.10	Pass
6	2437	24.87	23.98	556.937	27.46	28.10	Pass
10	2457	23.00	22.03	359.114	25.55	28.10	Pass
11	2462	21.98	20.41	267.662	24.28	28.10	Pass
12	2467	20.80	18.92	198.209	22.97	28.10	Pass
13	2472	8.84	8.35	14.495	11.61	28.10	Pass

Note: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 7.90\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30 - (7.90 - 6) = 28.10\text{dBm}$.

802.11ax (HE40)

Channel	Frequency (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
3	2422	20.23	19.36	191.737	22.83	28.10	Pass
4	2427	21.08	19.87	225.284	23.53	28.10	Pass
6	2437	21.50	20.35	249.646	23.97	28.10	Pass
8	2447	21.03	20.01	226.996	23.56	28.10	Pass
9	2452	20.17	19.01	183.608	22.64	28.10	Pass
10	2457	19.28	17.96	147.240	21.68	28.10	Pass
11	2462	9.48	9.78	18.378	12.64	28.10	Pass

Note: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 7.90\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30 - (7.90 - 6) = 28.10\text{dBm}$.

20MHz Preamble

RU Configuration	Channel	Frequency (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
			Chain 0	Chain 1				
26/0	1	2412	24.28	23.92	514.521	27.11	28.10	Pass
26/0	2	2417	23.87	23.57	471.291	26.73	28.10	Pass
26/4	6	2437	24.41	24.68	569.823	27.56	28.10	Pass
26/8	10	2457	22.23	22.43	342.094	25.34	28.10	Pass
26/8	11	2462	22.18	22.31	335.412	25.26	28.10	Pass
26/8	12	2467	20.16	19.45	191.858	22.83	28.10	Pass
26/8	13	2472	-2.68	-1.63	1.2266	0.89	28.10	Pass
52/37	1	2412	24.19	23.10	466.596	26.69	28.10	Pass
52/37	2	2417	23.51	23.05	426.225	26.30	28.10	Pass
52/38	6	2437	24.01	23.75	488.905	26.89	28.10	Pass
52/40	10	2457	21.61	21.70	292.788	24.67	28.10	Pass
52/40	11	2462	21.88	21.12	283.59	24.53	28.10	Pass
52/40	12	2467	18.78	18.89	152.955	21.85	28.10	Pass
52/40	13	2472	-2.58	-0.65	1.4131	1.50	28.10	Pass
106/53	1	2412	23.00	22.41	373.707	25.73	28.10	Pass
106/53	2	2417	23.91	23.60	475.124	26.77	28.10	Pass
106/53	6	2437	24.21	24.01	515.401	27.12	28.10	Pass
106/54	10	2457	23.19	23.38	426.22	26.30	28.10	Pass
106/54	11	2462	23.21	22.41	383.592	25.84	28.10	Pass
106/54	12	2467	20.38	19.43	196.844	22.94	28.10	Pass
106/54	13	2472	0.53	1.62	2.582	4.12	28.10	Pass

Note: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 7.90\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30 - (7.90 - 6) = 28.10\text{dBm}$.

For Average Power

802.11b

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)
		Chain 0	Chain 1		
1	2412	19.82	18.48	166.409	22.21
6	2437	20.87	19.48	210.896	23.24
11	2462	19.64	18.03	155.578	21.92
12	2467	17.63	16.06	98.307	19.93
13	2472	15.09	13.35	53.912	17.32

802.11g

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)
		Chain 0	Chain 1		
1	2412	17.20	15.84	90.851	19.58
2	2417	17.47	16.27	98.211	19.92
6	2437	20.98	20.69	242.534	23.85
10	2457	17.76	16.88	108.456	20.35
11	2462	16.95	15.54	85.355	19.31
12	2467	14.90	13.41	52.831	17.23
13	2472	2.13	1.71	3.116	4.94

VHT20

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)
		Chain 0	Chain 1		
1	2412	16.00	15.41	74.564	18.73
2	2417	16.58	15.52	81.144	19.09
6	2437	19.25	18.28	151.437	21.80
10	2457	16.13	14.78	71.081	18.52
11	2462	14.53	13.15	49.033	16.90
12	2467	13.53	12.31	39.564	15.97
13	2472	1.74	1.58	2.932	4.67

VHT40

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)
		Chain 0	Chain 1		
3	2422	13.73	12.74	42.398	16.27
4	2427	14.37	13.25	48.488	16.86
6	2437	14.65	13.58	51.978	17.16
8	2447	14.22	12.95	46.148	16.64
9	2452	13.66	12.19	39.785	16.00
10	2457	12.58	11.24	31.418	14.97
11	2462	2.99	3.06	4.014	6.04

802.11ax (HE20)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)
		Chain 0	Chain 1		
1	2412	16.40	15.81	81.758	19.13
2	2417	16.83	15.71	85.434	19.32
6	2437	19.52	18.59	161.813	22.09
10	2457	16.53	15.18	77.939	18.92
11	2462	14.93	13.55	53.764	17.30
12	2467	13.73	12.51	41.429	16.17
13	2472	1.91	1.75	3.049	4.84

802.11ax (HE40)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)
		Chain 0	Chain 1		
3	2422	14.13	13.14	46.488	16.67
4	2427	14.74	13.65	52.959	17.24
6	2437	14.93	13.82	55.216	17.42
8	2447	14.42	13.30	49.049	16.91
9	2452	13.92	12.52	42.525	16.29
10	2457	12.91	11.57	33.898	15.30
11	2462	3.39	3.46	4.401	6.44

20MHz Preamble

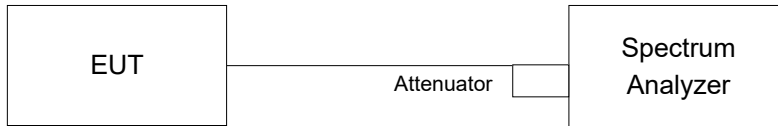
RU Configuration	Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)
			Chain 0	Chain 1		
26/0	1	2412	15.36	15.36	68.712	18.37
26/0	2	2417	16.20	16.20	83.374	19.21
26/4	6	2437	16.80	16.80	95.726	19.81
26/8	10	2457	13.72	13.72	47.101	16.73
26/8	11	2462	13.76	13.76	47.537	16.77
26/8	12	2467	10.72	10.72	23.606	13.73
26/8	13	2472	-11.35	-11.35	0.14656	-8.34
52/37	1	2412	15.20	14.71	62.693	17.97
52/37	2	2417	15.61	15.13	68.975	18.39
52/38	6	2437	16.98	16.40	93.54	19.71
52/40	10	2457	12.91	13.10	39.961	16.02
52/40	11	2462	13.01	13.01	39.997	16.02
52/40	12	2467	9.91	9.87	19.500	12.90
52/40	13	2472	-11.05	-9.17	0.200	-7.00
106/53	1	2412	14.81	14.20	56.572	17.53
106/53	2	2417	15.78	15.26	71.418	18.54
106/53	6	2437	17.10	16.48	95.749	19.81
106/54	10	2457	13.68	13.61	46.296	16.66
106/54	11	2462	13.71	13.70	46.939	16.72
106/54	12	2467	10.68	10.60	23.177	13.65
106/54	13	2472	-9.97	-7.32	0.286	-5.44

4.5 Power Spectral Density Measurement

4.5.1 Limits of Power Spectral Density Measurement

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

4.5.2 Test Setup



4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.5.4 Test Procedure

- a. Set analyzer center frequency to DTS channel center frequency.
- b. Set the span to 1.5 times the DTS bandwidth.
- c. Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d. Set the VBW $\geq 3 \times \text{RBW}$.
- e. Detector = peak.
- f. Sweep time = auto couple.
- g. Trace mode = max hold.
- h. Allow trace to fully stabilize.
- i. Use the peak marker function to determine the maximum amplitude level within the RBW.

4.5.5 Deviation from Test Standard

No deviation.

4.5.6 EUT Operating Condition

Same as item 4.3.6

4.5.7 Test Results

802.11b

TX chain	Channel	Frequency (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Pass / Fail
0	1	2412	-4.71	3.01	-1.70	6.10	Pass
	6	2437	-3.68	3.01	-0.67	6.10	Pass
	11	2462	-5.29	3.01	-2.28	6.10	Pass
	12	2467	-6.25	3.01	-3.24	6.10	Pass
	13	2472	-9.19	3.01	-6.18	6.10	Pass
1	1	2412	-6.14	3.01	-3.13	6.10	Pass
	6	2437	-5.27	3.01	-2.26	6.10	Pass
	11	2462	-5.83	3.01	-2.82	6.10	Pass
	12	2467	-7.24	3.01	-4.23	6.10	Pass
	13	2472	-9.24	3.01	-6.23	6.10	Pass

Note:

- Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure value and add $10 \log (N_{ANT})$ dB.
- Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 7.90\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $8 - (7.90 - 6) = 6.10\text{dBm}$.

802.11g

TX chain	Channel	Frequency (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Pass / Fail
0	1	2412	-7.72	3.01	-4.71	6.10	Pass
	2	2417	-7.46	3.01	-4.45	6.10	Pass
	6	2437	-5.16	3.01	-2.15	6.10	Pass
	10	2457	-6.86	3.01	-3.85	6.10	Pass
	11	2462	-8.02	3.01	-5.01	6.10	Pass
	12	2467	-10.11	3.01	-7.10	6.10	Pass
	13	2472	-21.79	3.01	-18.78	6.10	Pass
1	1	2412	-9.06	3.01	-6.05	6.10	Pass
	2	2417	-8.50	3.01	-5.49	6.10	Pass
	6	2437	-6.41	3.01	-3.40	6.10	Pass
	10	2457	-8.46	3.01	-5.45	6.10	Pass
	11	2462	-9.62	3.01	-6.61	6.10	Pass
	12	2467	-10.88	3.01	-7.87	6.10	Pass
	13	2472	-22.39	3.01	-19.38	6.10	Pass

Note:

- Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure value and add 10 log (N_{ANT}) dB.
- Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 7.90\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $8 - (7.90 - 6) = 6.10\text{dBm}$.

802.11ax (HE20)

TX chain	Channel	Frequency (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Pass / Fail
0	1	2412	-10.12	3.01	-7.11	6.10	Pass
	2	2417	-9.04	3.01	-6.03	6.10	Pass
	6	2437	-6.07	3.01	-3.06	6.10	Pass
	10	2457	-9.61	3.01	-6.60	6.10	Pass
	11	2462	-12.02	3.01	-9.01	6.10	Pass
	12	2467	-12.29	3.01	-9.28	6.10	Pass
	13	2472	-23.45	3.01	-20.44	6.10	Pass
1	1	2412	-11.04	3.01	-8.03	6.10	Pass
	2	2417	-10.15	3.01	-7.14	6.10	Pass
	6	2437	-7.38	3.01	-4.37	6.10	Pass
	10	2457	-10.63	3.01	-7.62	6.10	Pass
	11	2462	-12.33	3.01	-9.32	6.10	Pass
	12	2467	-12.82	3.01	-9.81	6.10	Pass
	13	2472	-24.60	3.01	-21.59	6.10	Pass

Note:

- Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure value and add $10 \log (N_{ANT})$ dB.
- Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 7.90\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $8 - (7.90 - 6) = 6.10\text{dBm}$.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE40)

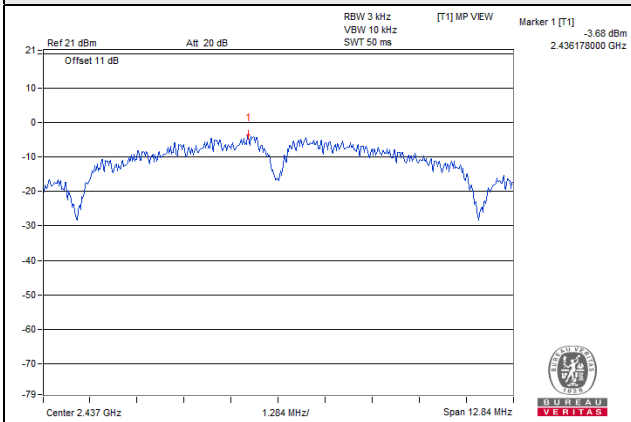
TX chain	Channel	Frequency (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Pass / Fail
0	3	2422	-16.06	3.01	-13.05	6.10	Pass
	4	2427	-14.03	3.01	-11.02	6.10	Pass
	6	2437	-14.03	3.01	-11.02	6.10	Pass
	8	2447	-14.54	3.01	-11.53	6.10	Pass
	9	2452	-14.78	3.01	-11.77	6.10	Pass
	10	2457	-15.63	3.01	-12.62	6.10	Pass
	11	2462	-25.12	3.01	-22.11	6.10	Pass
1	3	2422	-16.39	3.01	-13.38	6.10	Pass
	4	2427	-16.01	3.01	-13.00	6.10	Pass
	6	2437	-14.98	3.01	-11.97	6.10	Pass
	8	2447	-15.52	3.01	-12.51	6.10	Pass
	9	2452	-15.77	3.01	-12.76	6.10	Pass
	10	2457	-17.47	3.01	-14.46	6.10	Pass
	11	2462	-25.86	3.01	-22.85	6.10	Pass

Note:

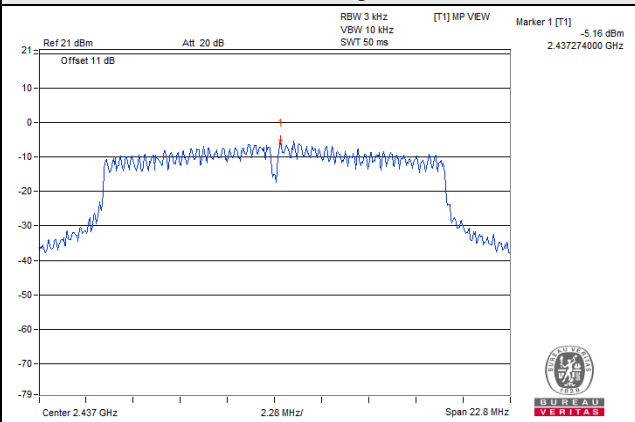
- Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure value and add 10 log (N_{ANT}) dB.
- Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 7.90\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $8 - (7.90 - 6) = 6.10\text{dBm}$.

Spectrum Plot of Worst Value

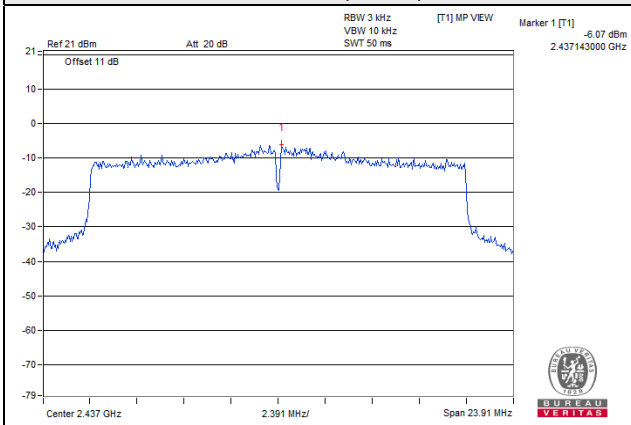
802.11b



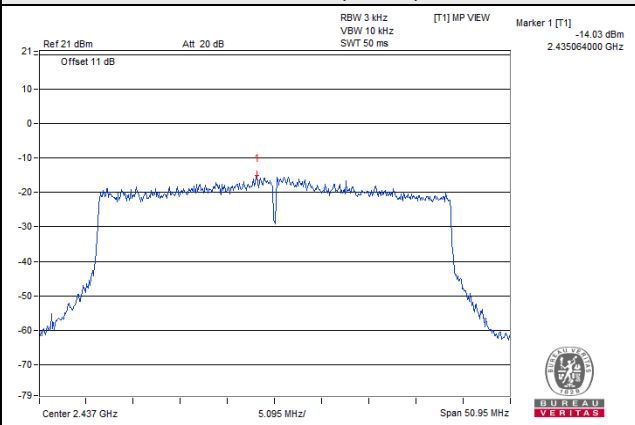
802.11g



802.11ax (HE20)



802.11ax (HE40)



20MHz Preamble

TX chain	RU Configuration	Channel	Frequency (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Pass / Fail
0	26/0	1	2412	-4.55	3.01	-1.54	6.10	Pass
	26/0	2	2417	-3.71	3.01	-0.70	6.10	Pass
	26/4	6	2437	-2.36	3.01	0.65	6.10	Pass
	26/8	10	2457	-6.30	3.01	-3.29	6.10	Pass
	26/8	11	2462	-5.97	3.01	-2.96	6.10	Pass
	26/8	12	2467	-8.20	3.01	-5.19	6.10	Pass
	26/8	13	2472	-29.61	3.01	-26.60	6.10	Pass
1	26/0	1	2412	-5.12	3.01	-2.11	6.10	Pass
	26/0	2	2417	-4.16	3.01	-1.15	6.10	Pass
	26/4	6	2437	-3.00	3.01	0.01	6.10	Pass
	26/8	10	2457	-6.30	3.01	-3.29	6.10	Pass
	26/8	11	2462	-4.81	3.01	-1.80	6.10	Pass
	26/8	12	2467	-7.87	3.01	-4.86	6.10	Pass
	26/8	13	2472	-29.50	3.01	-26.49	6.10	Pass

Note:

- Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure value and add 10 log (N_{ANT}) dB.
- Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 7.90\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $8 - (7.90 - 6) = 6.10\text{dBm}$.

TX chain	RU Configuration	Channel	Frequency (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Pass / Fail
0	52/37	1	2412	-6.44	3.01	-3.43	6.10	Pass
	52/37	2	2417	-6.80	3.01	-3.79	6.10	Pass
	52/38	6	2437	-5.46	3.01	-2.45	6.10	Pass
	52/40	10	2457	-8.47	3.01	-5.46	6.10	Pass
	52/40	11	2462	-8.61	3.01	-5.60	6.10	Pass
	52/40	12	2467	-12.72	3.01	-9.71	6.10	Pass
	52/40	13	2472	-33.37	3.01	-30.36	6.10	Pass
1	52/37	1	2412	-7.47	3.01	-4.46	6.10	Pass
	52/37	2	2417	-7.26	3.01	-4.25	6.10	Pass
	52/38	6	2437	-5.87	3.01	-2.86	6.10	Pass
	52/40	10	2457	-8.85	3.01	-5.84	6.10	Pass
	52/40	11	2462	-9.94	3.01	-6.93	6.10	Pass
	52/40	12	2467	-11.75	3.01	-8.74	6.10	Pass
	52/40	13	2472	-32.02	3.01	-29.01	6.10	Pass

Note:

- Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure value and add 10 log (N_{ANT}) dB.
- Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 7.90\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $8 - (7.90 - 6) = 6.10\text{dBm}$.

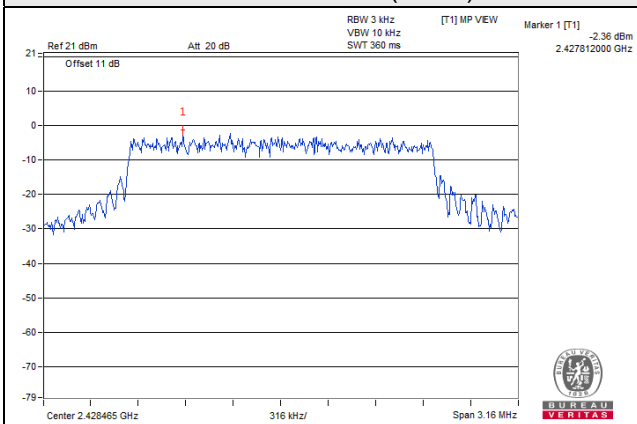
TX chain	RU Configuration	Channel	Frequency (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Pass / Fail
0	106/53	1	2412	-8.11	3.01	-5.10	6.10	Pass
	106/53	2	2417	-8.68	3.01	-5.67	6.10	Pass
	106/53	6	2437	-7.64	3.01	-4.63	6.10	Pass
	106/54	10	2457	-9.59	3.01	-6.58	6.10	Pass
	106/54	11	2462	-11.16	3.01	-8.15	6.10	Pass
	106/54	12	2467	-12.40	3.01	-9.39	6.10	Pass
	106/54	13	2472	-33.45	3.01	-30.44	6.10	Pass
1	106/53	1	2412	-9.09	3.01	-6.08	6.10	Pass
	106/53	2	2417	-8.22	3.01	-5.21	6.10	Pass
	106/53	6	2437	-7.80	3.01	-4.79	6.10	Pass
	106/54	10	2457	-10.34	3.01	-7.33	6.10	Pass
	106/54	11	2462	-11.07	3.01	-8.06	6.10	Pass
	106/54	12	2467	-13.47	3.01	-10.46	6.10	Pass
	106/54	13	2472	-32.81	3.01	-29.80	6.10	Pass

Note:

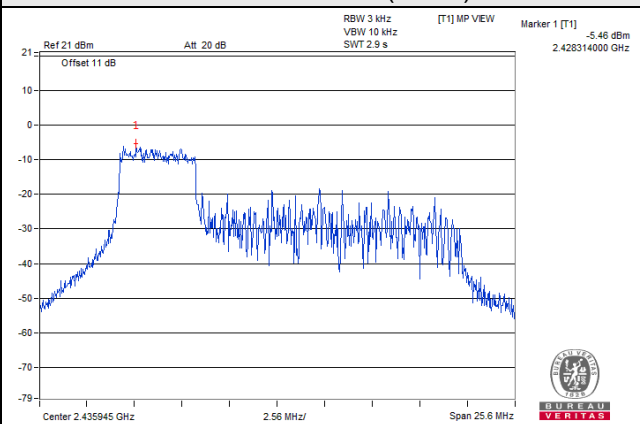
- Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure value and add 10 log (N_{ANT}) dB.
- Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 7.90\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $8 - (7.90 - 6) = 6.10\text{dBm}$.

Spectrum Plot of Worst Value

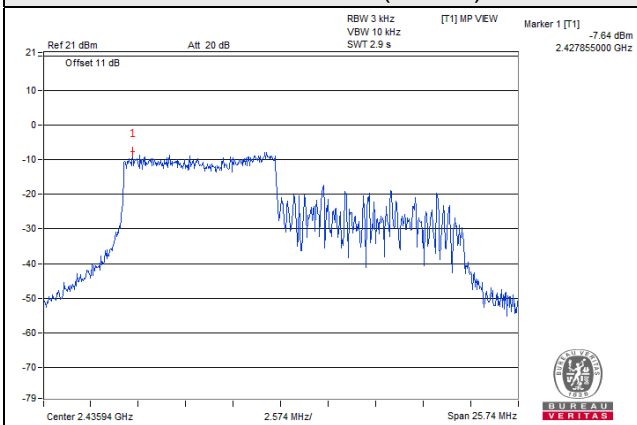
20MHz Preamble (RU26)



20MHz Preamble (RU52)



20MHz Preamble (RU106)

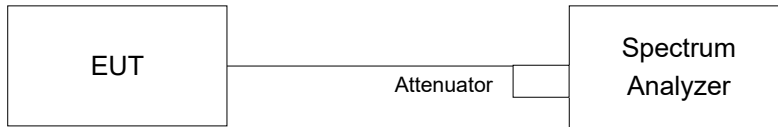


4.6 Conducted Out of Band Emission Measurement

4.6.1 Limits of Conducted Out of Band Emission Measurement

Below 20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

4.6.2 Test Setup



4.6.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.6.4 Test Procedure

MEASUREMENT PROCEDURE REF

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

MEASUREMENT PROCEDURE OOB

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

4.6.5 Deviation from Test Standard

No deviation.

4.6.6 EUT Operating Condition

Same as item 4.3.6

4.6.7 Test Results

The conducted emission test is performed on each TX port of operating mode without summing or adding 10log (N) since the limit is relative emission limit.

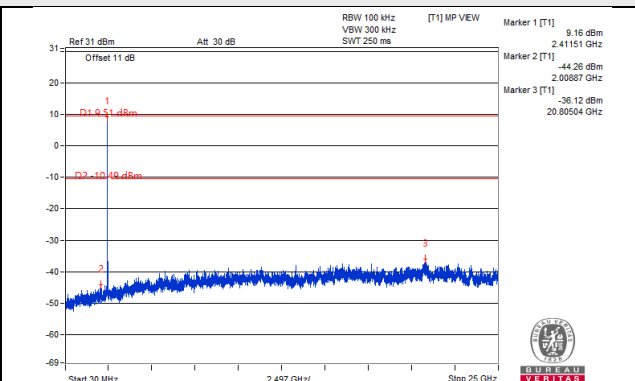
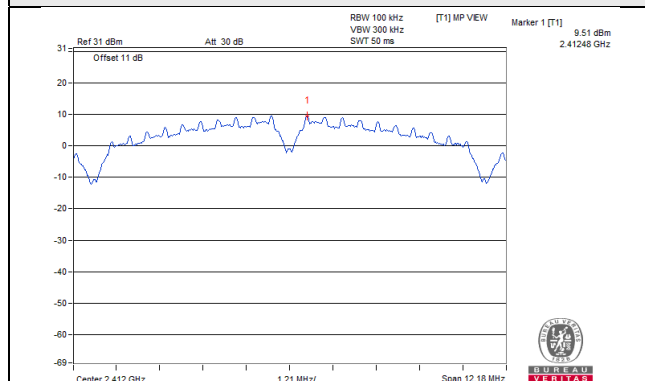
The spectrum plots are attached on the following pages. D1 line indicates the highest level, and D2 line indicates the 20dB offset below D1. It shows compliance with the requirement.



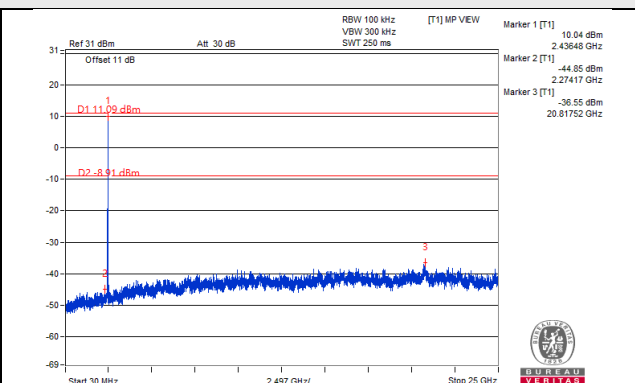
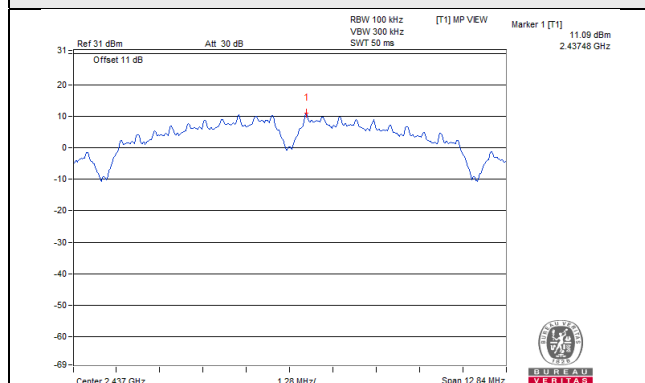
BUREAU VERITAS

802.11b_Chain 0

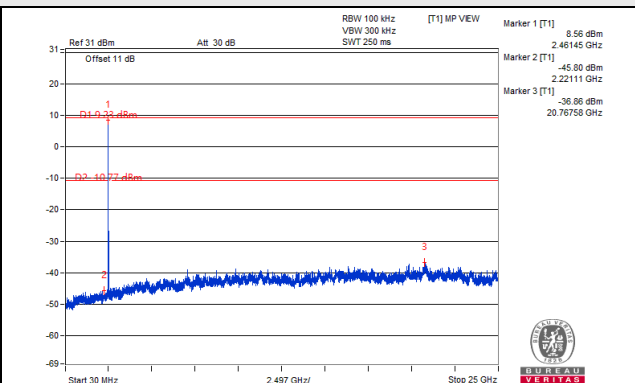
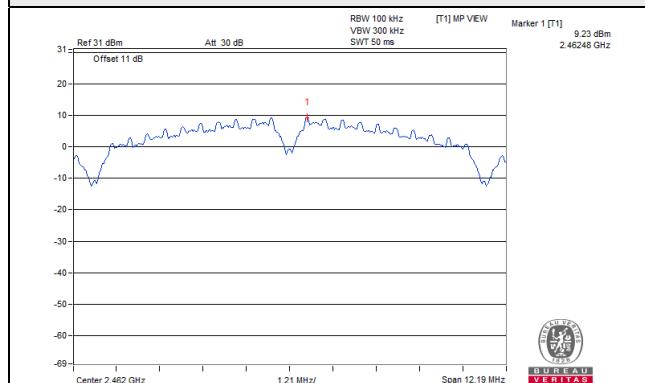
CH 1



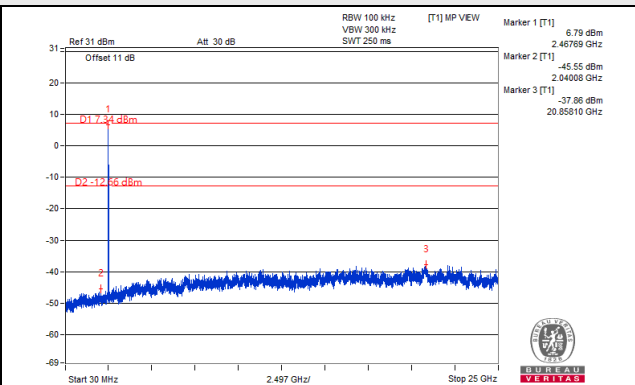
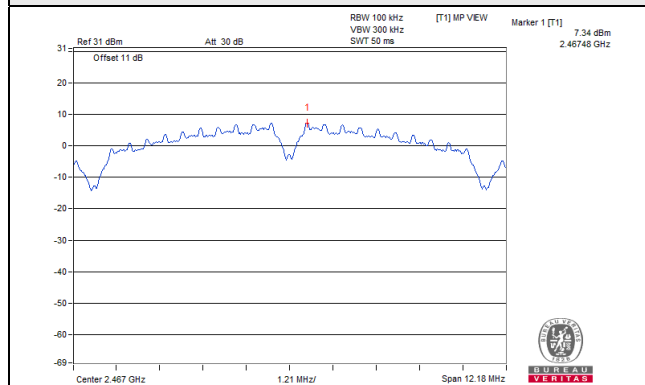
CH 6



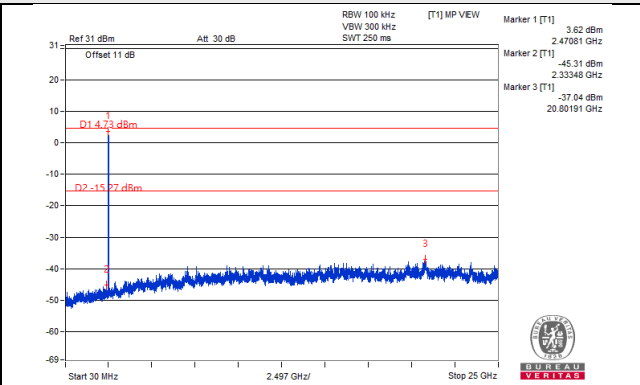
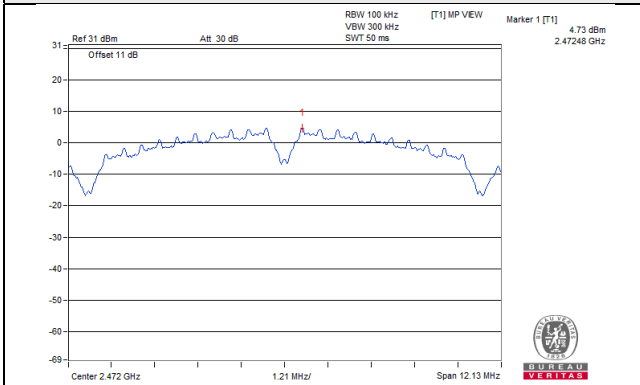
CH 11



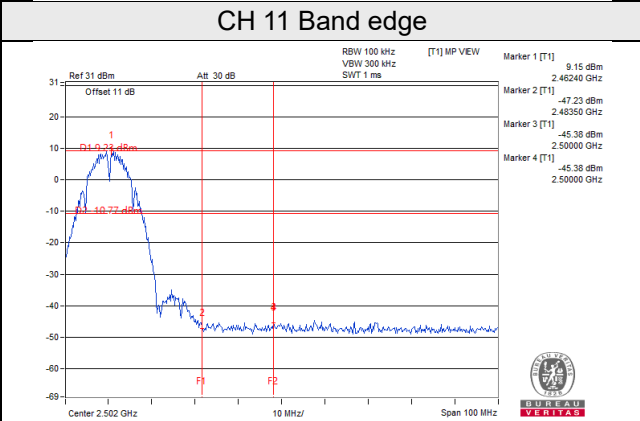
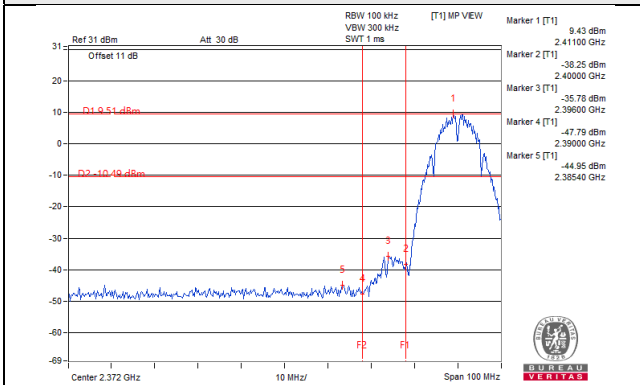
CH 12



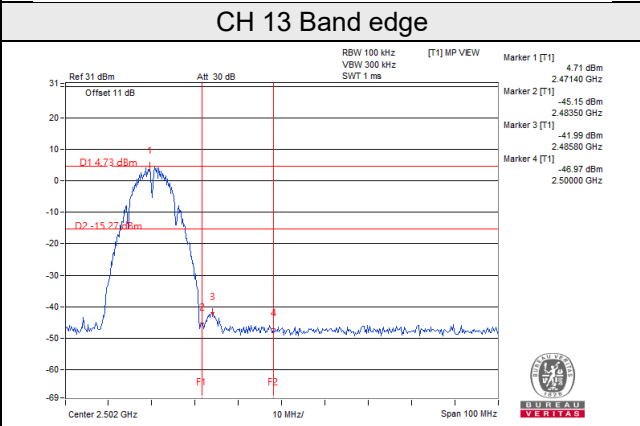
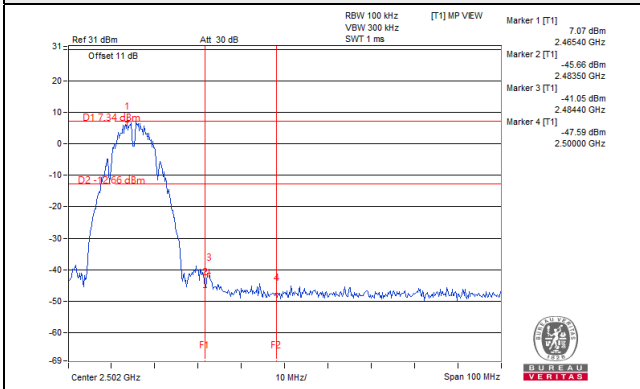
CH 13



CH 1 Band edge



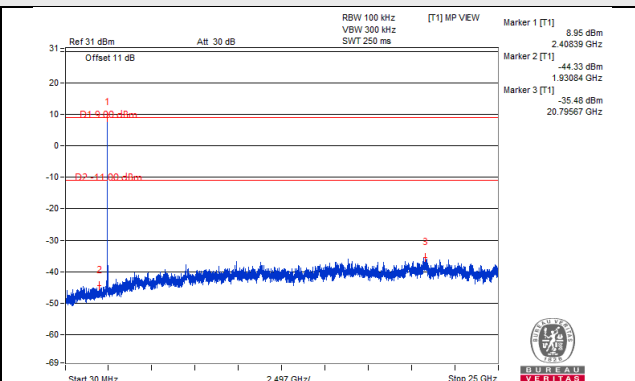
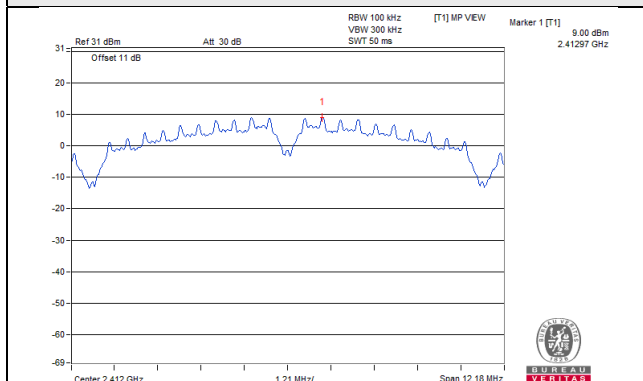
CH 12 Band edge



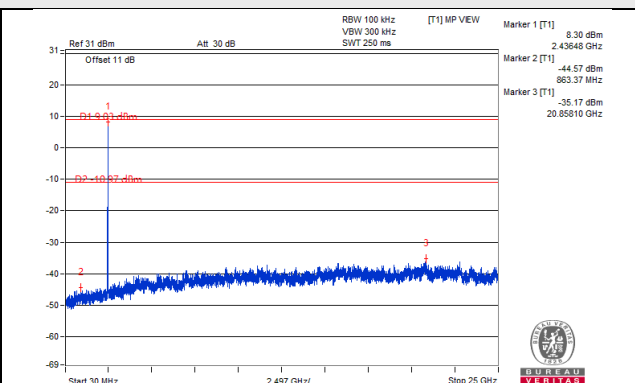
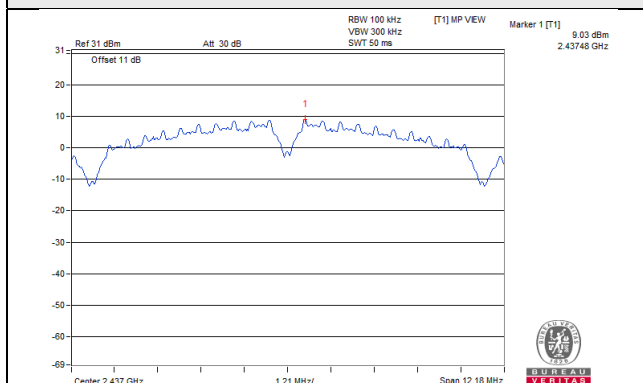


802.11b_Chain 1

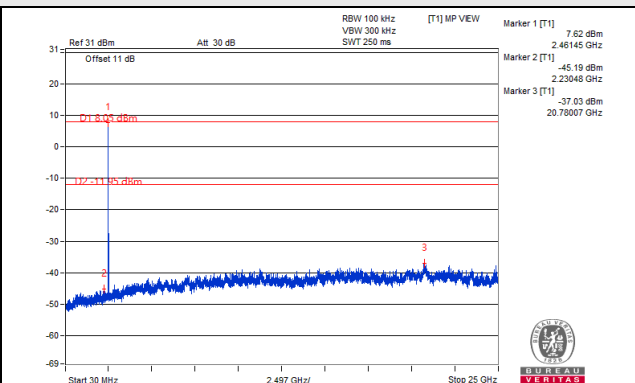
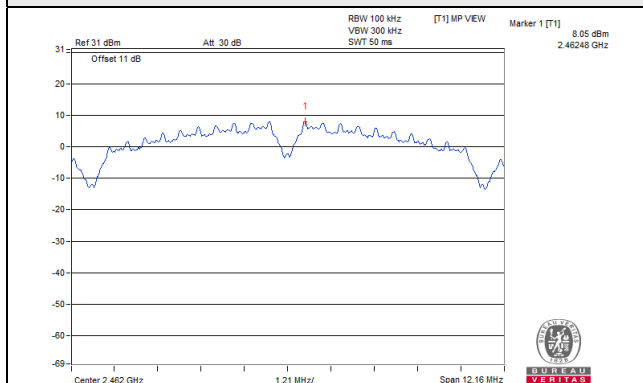
CH 1



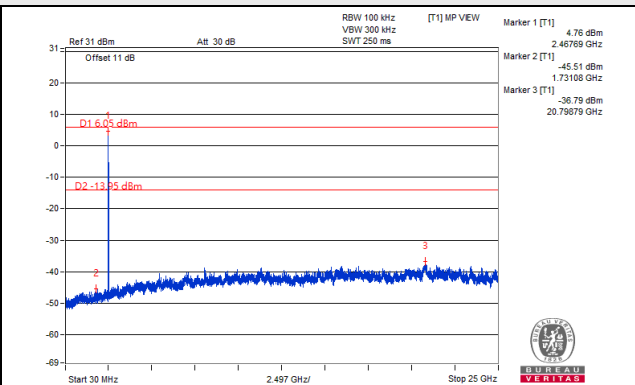
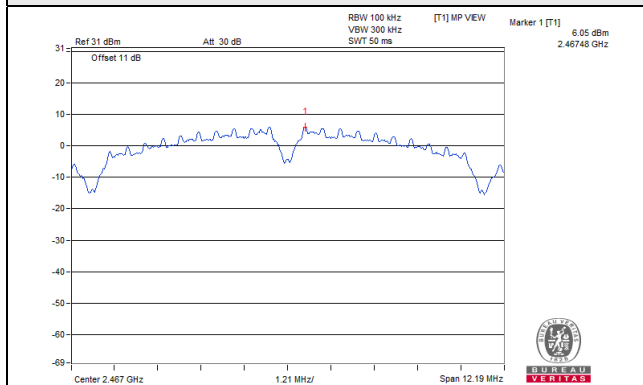
CH 6



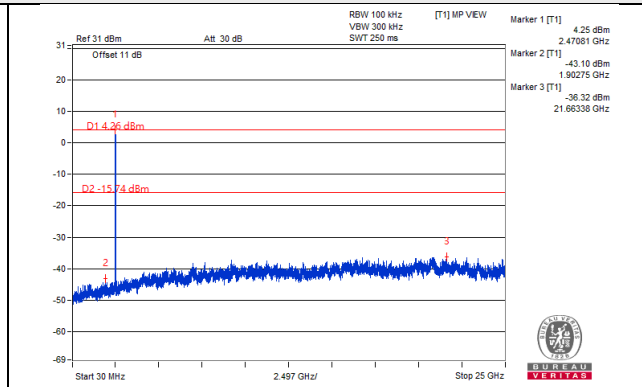
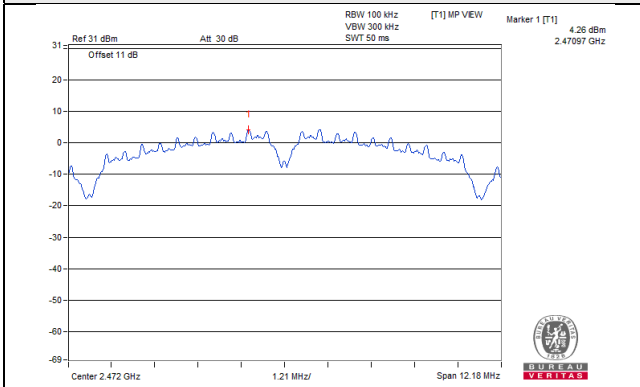
CH 11



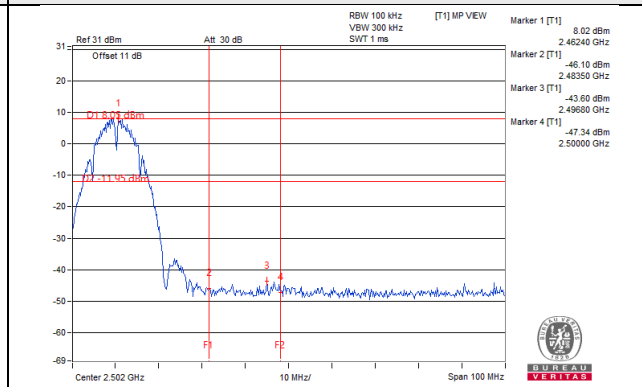
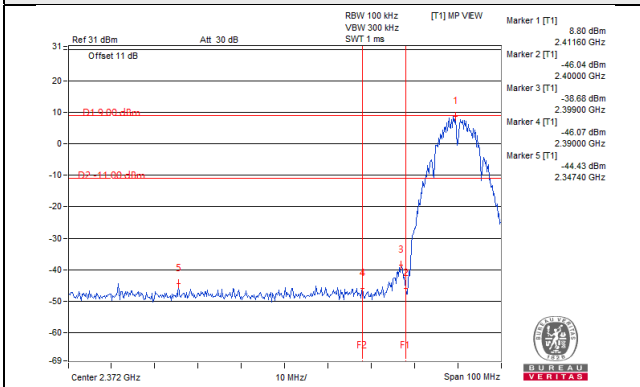
CH 12



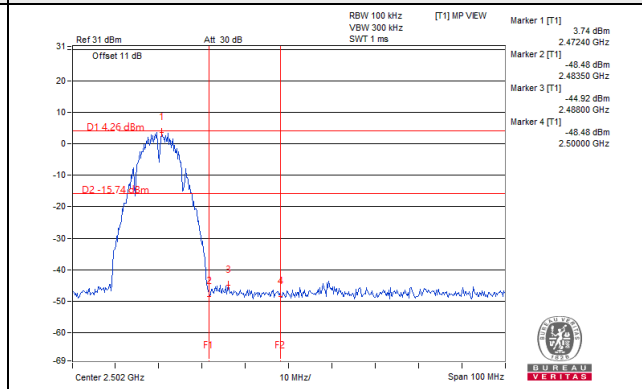
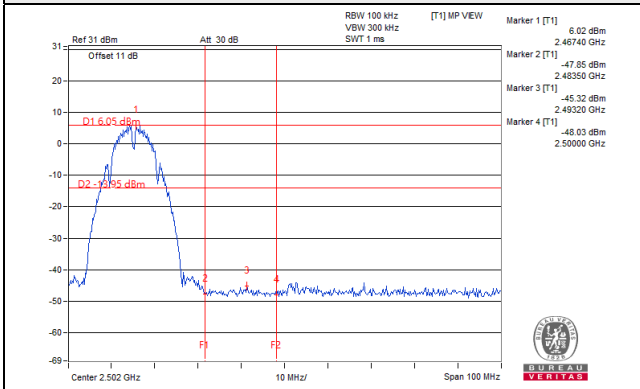
CH 13



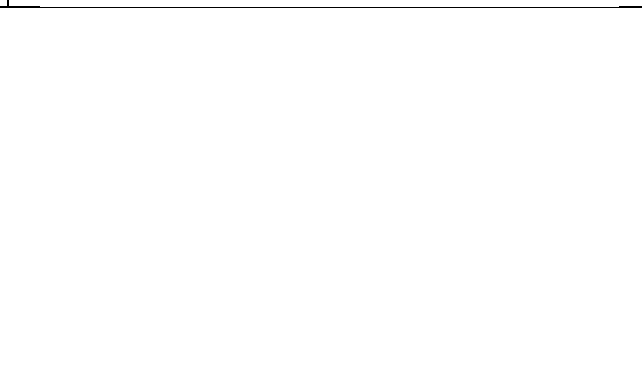
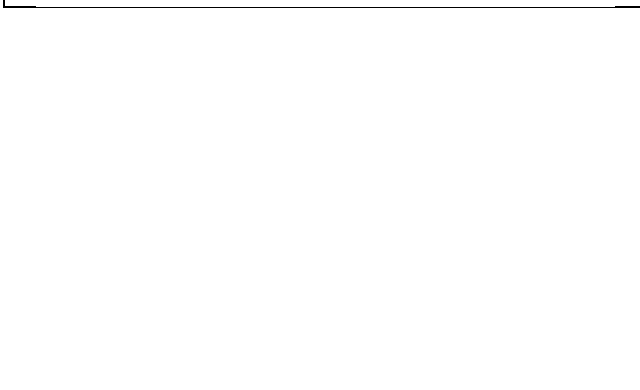
CH 1 Band edge



CH 12 Band edge

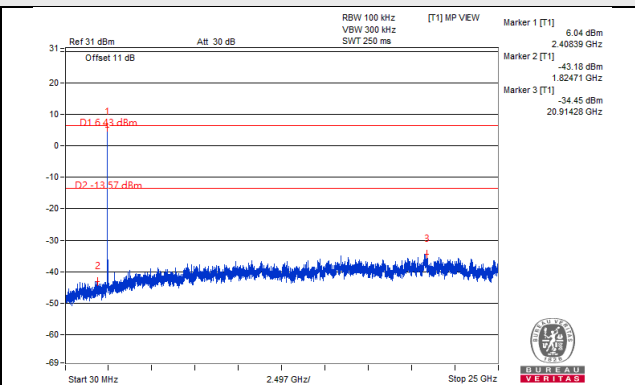
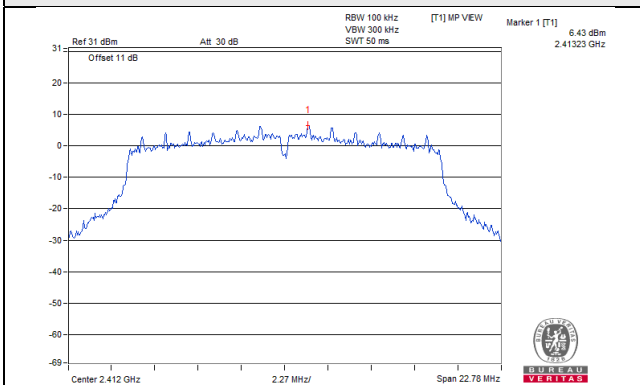


CH 13 Band edge

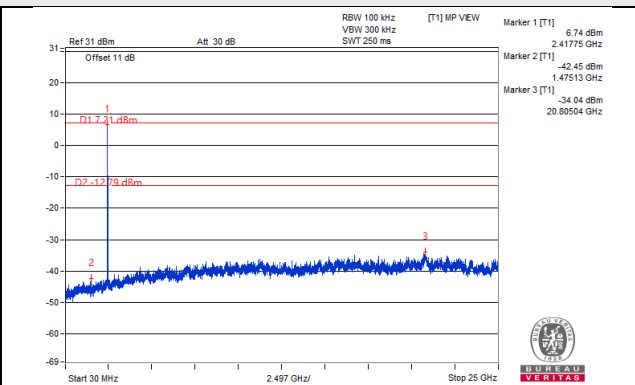
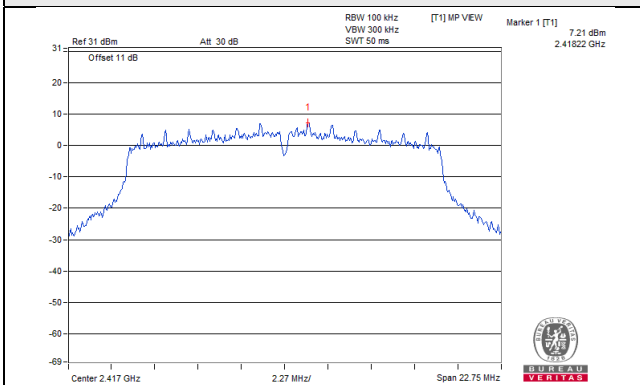


802.11g_Chain 0

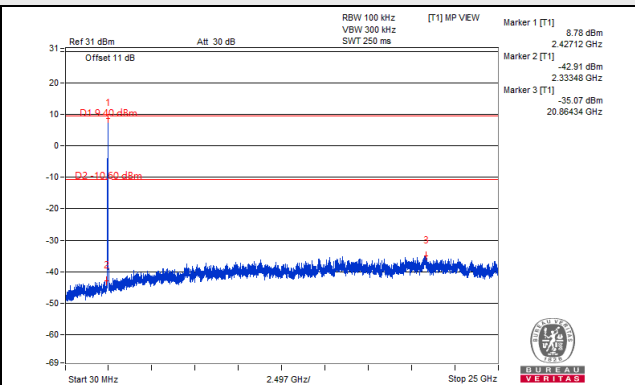
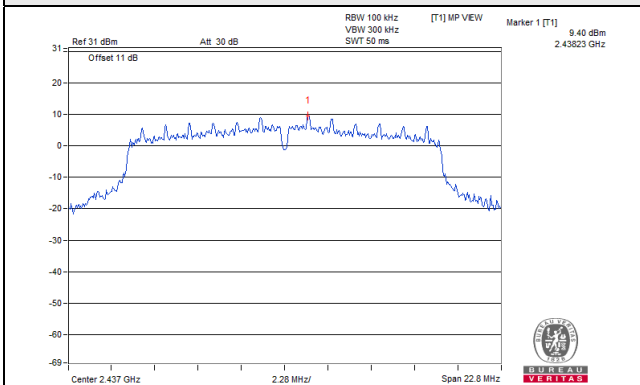
CH 1



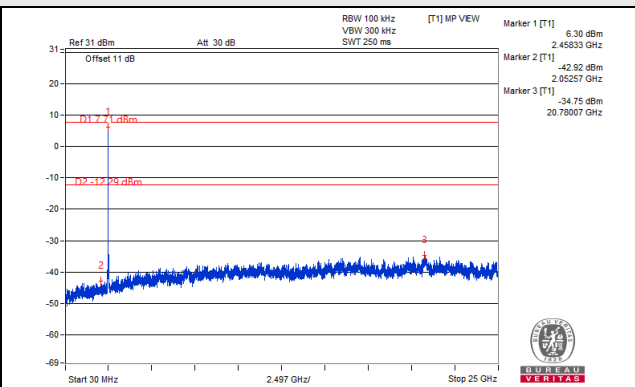
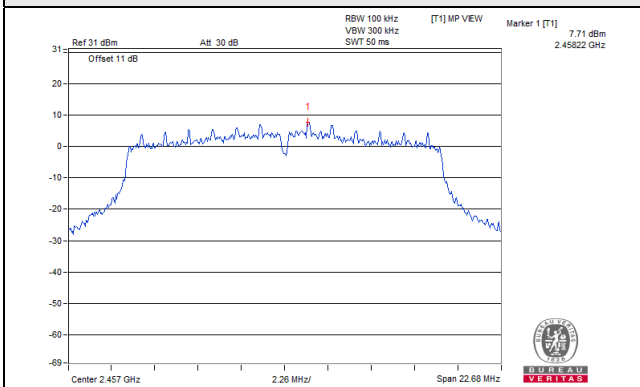
CH 2



CH 6

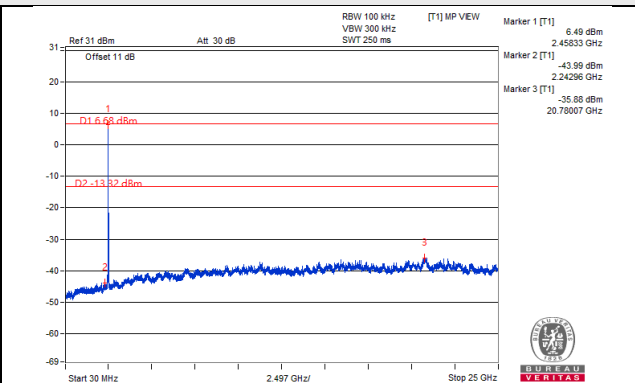
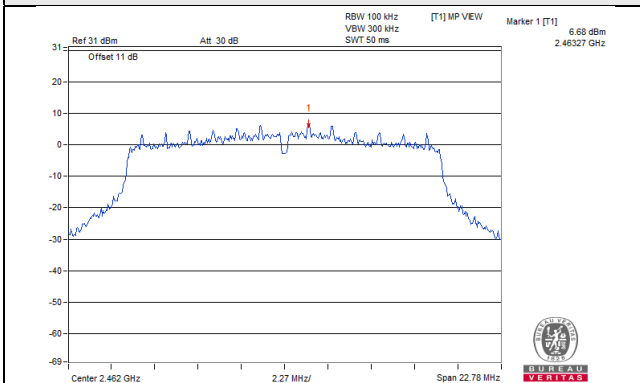


CH 10

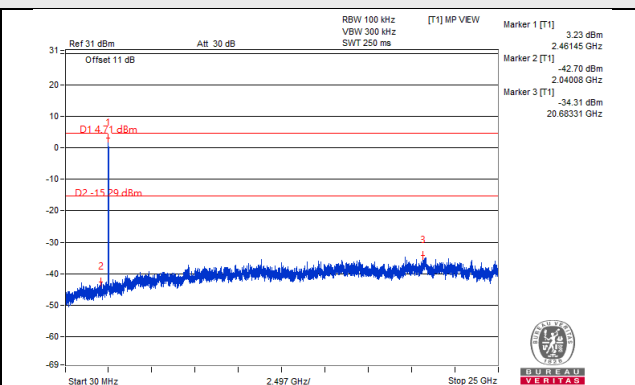
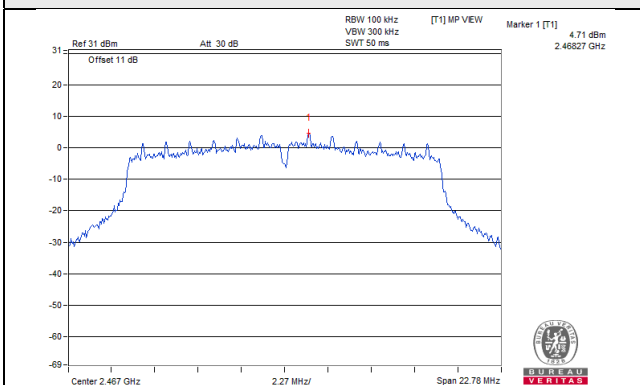




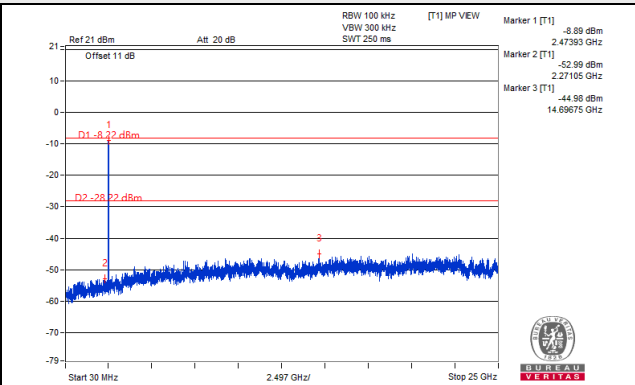
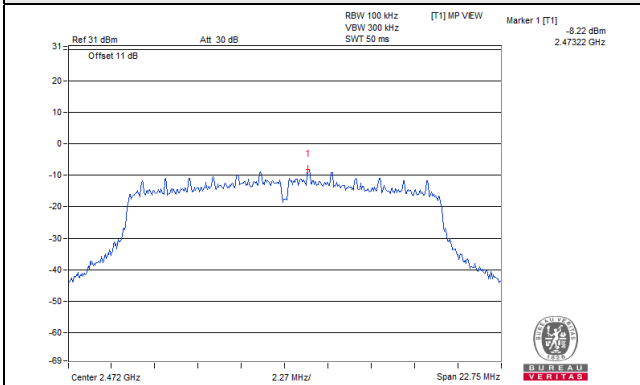
CH 11



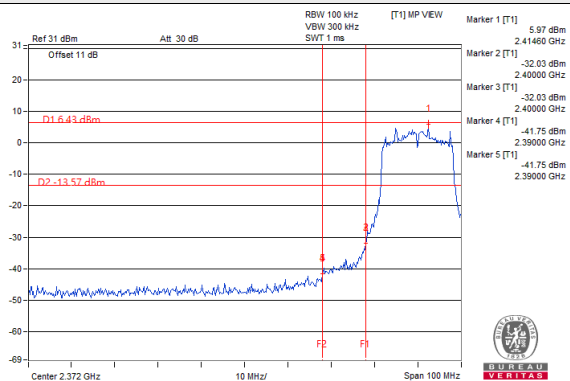
CH 12



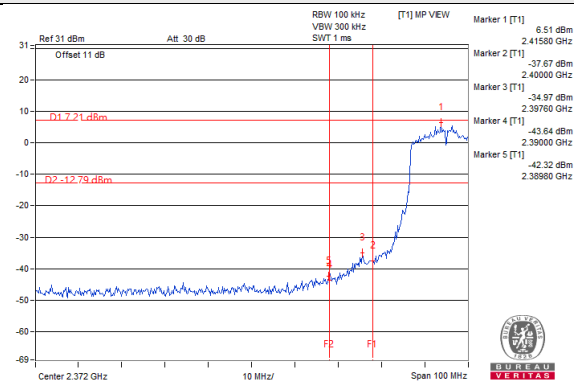
CH 13



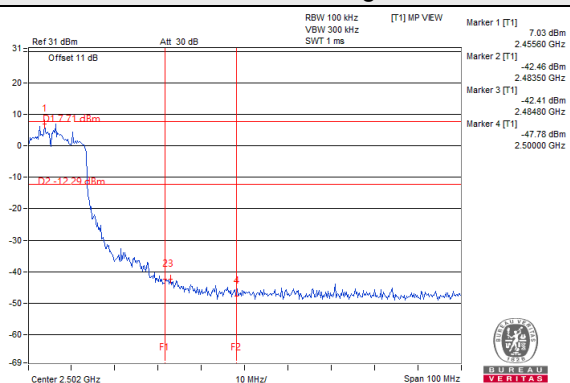
CH 1 Band edge



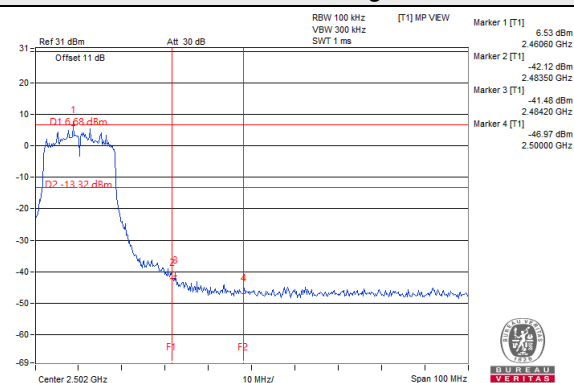
CH 2 Band edge



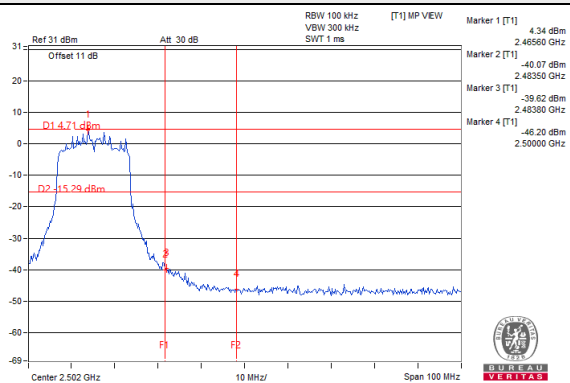
CH 10 Band edge



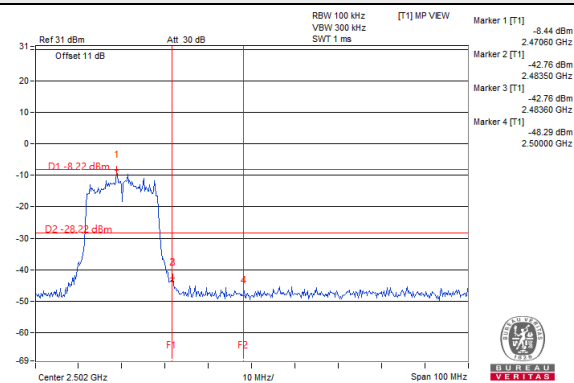
CH 11 Band edge



CH 12 Band edge

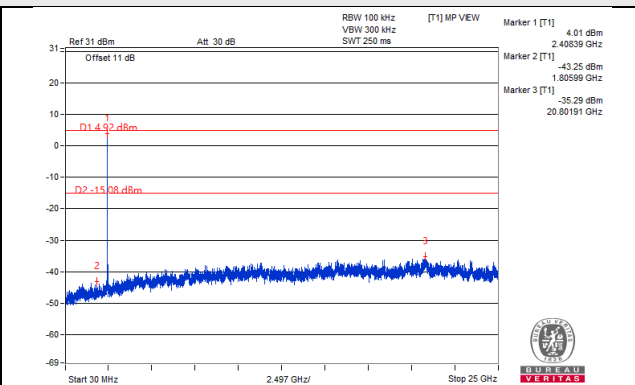
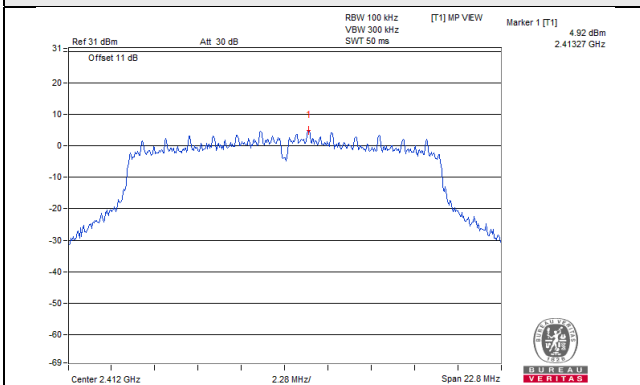


CH 13 Band edge

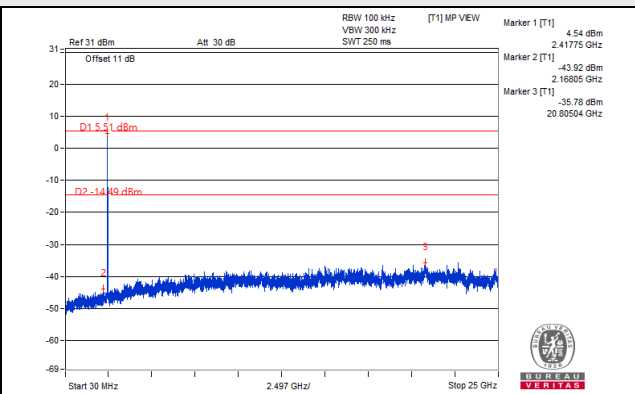
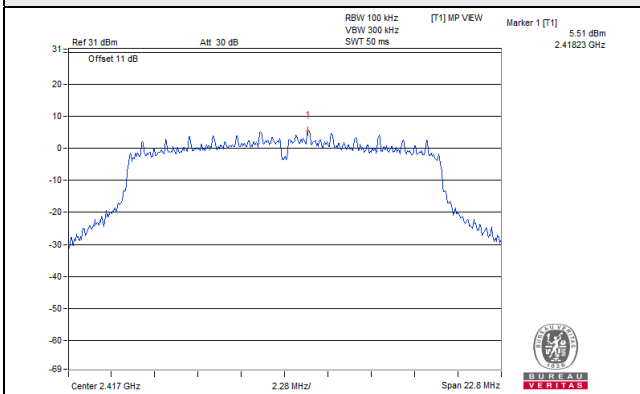


802.11g_Chain 1

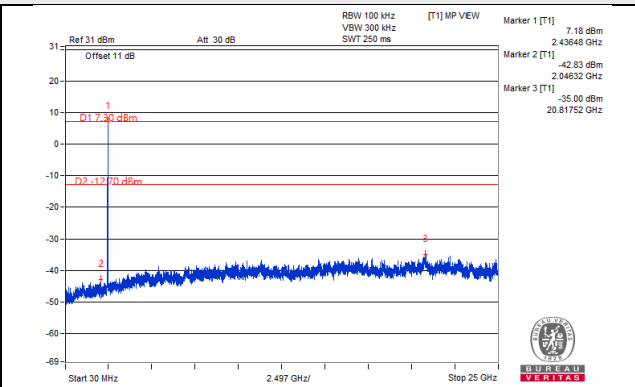
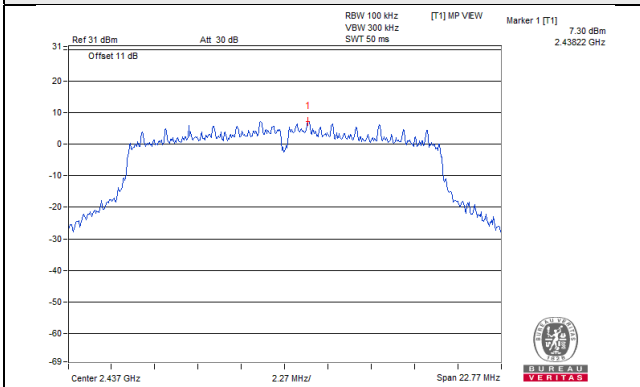
CH 1



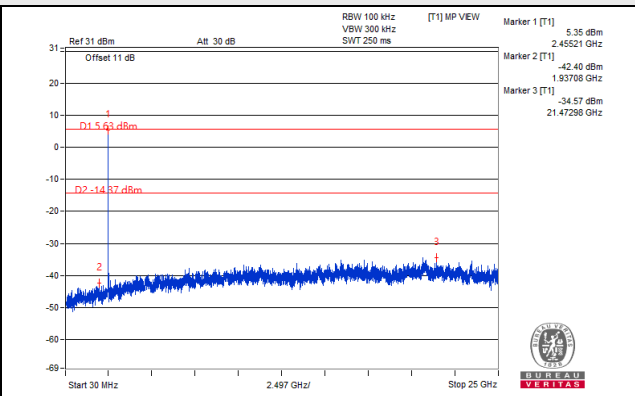
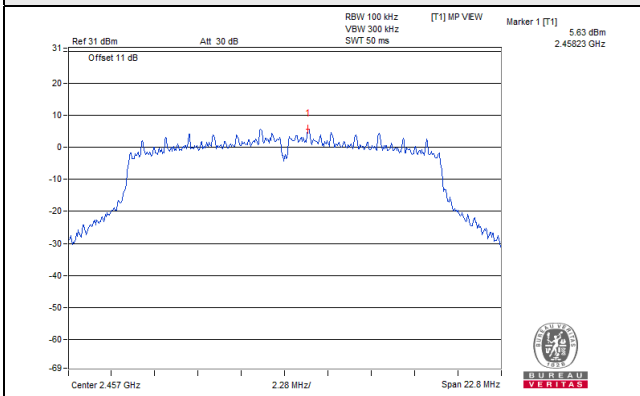
CH 2



CH 6



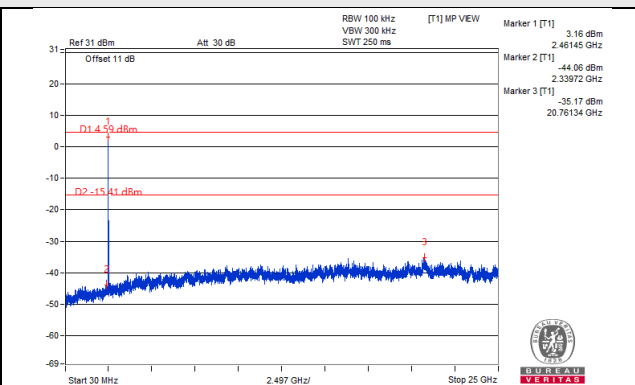
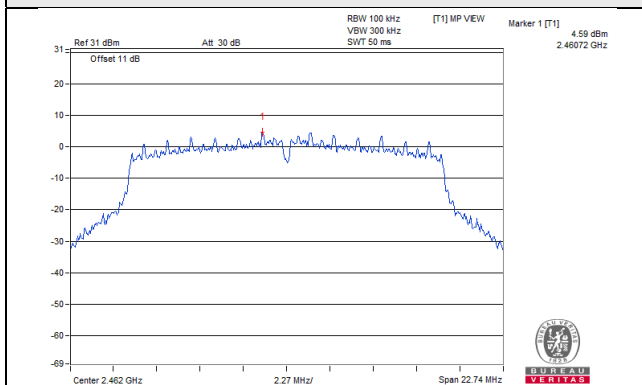
CH 10



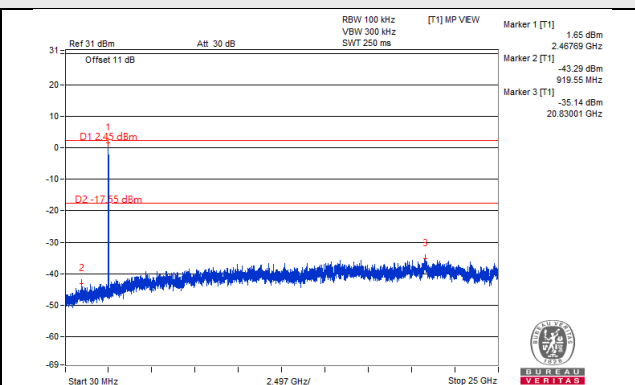
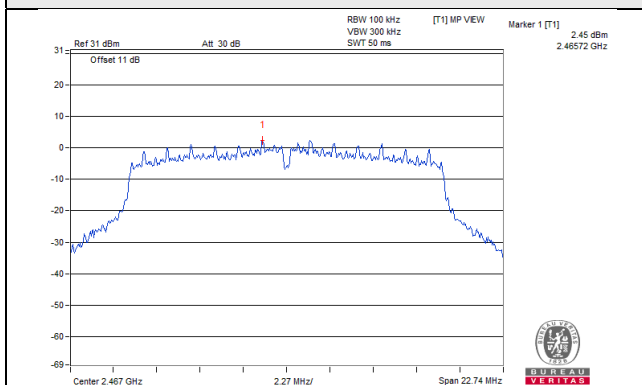


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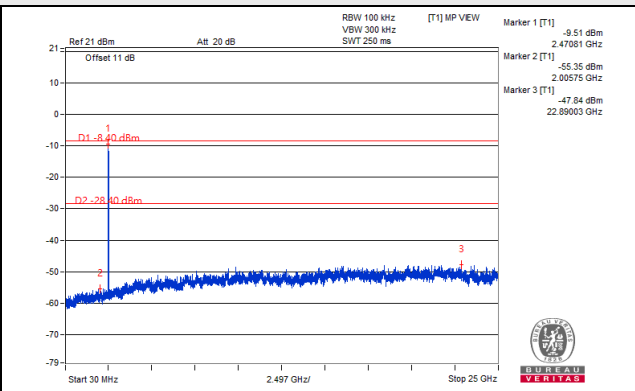
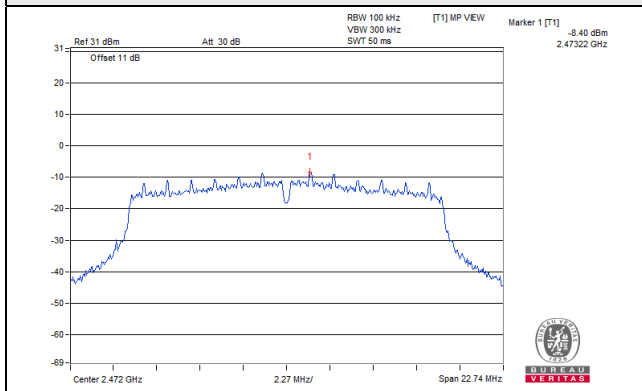
CH 11



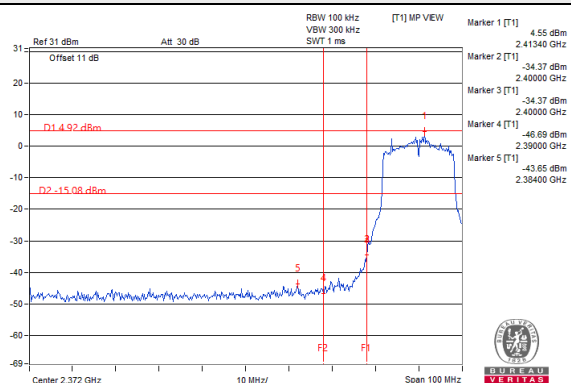
CH 12



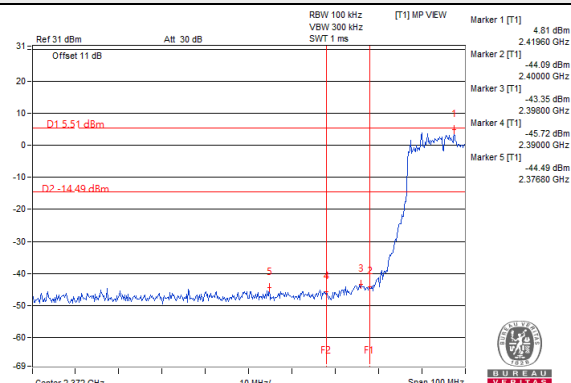
CH 13



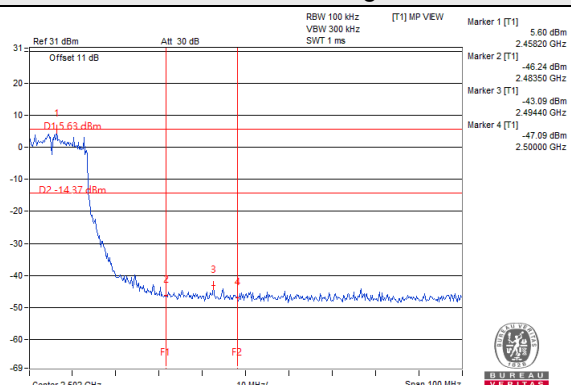
CH 1 Band edge



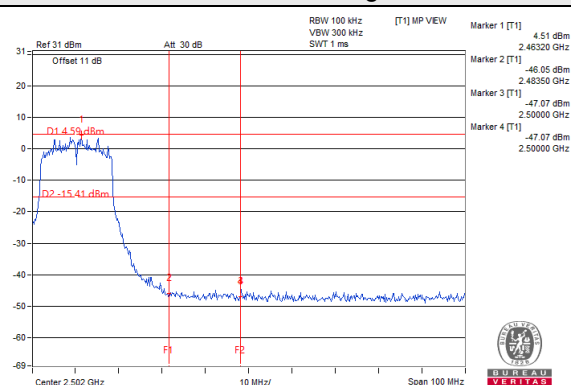
CH 2 Band edge



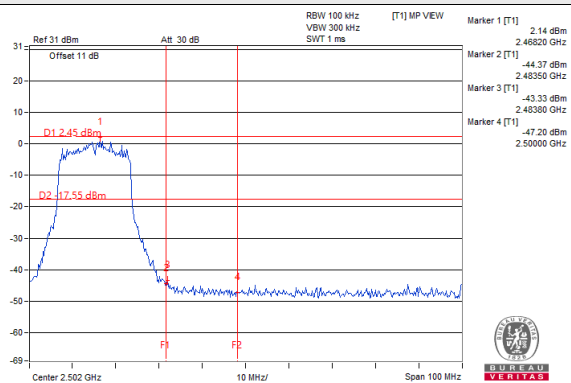
CH 10 Band edge



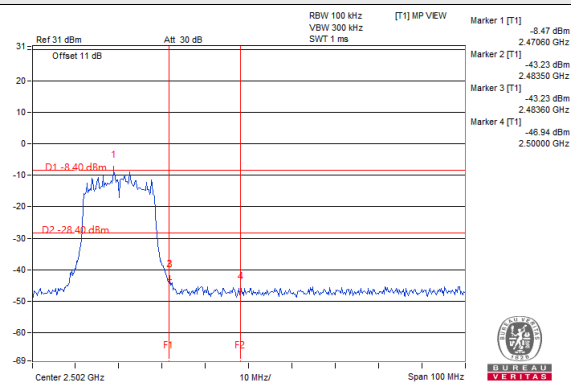
CH 11 Band edge



CH 12 Band edge

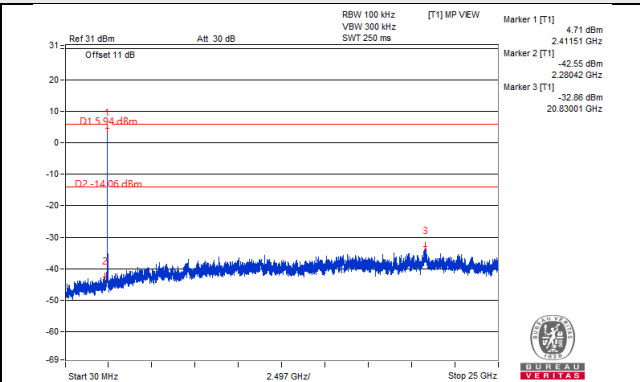
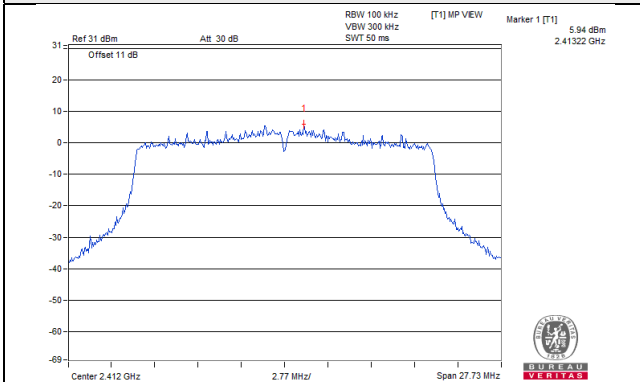


CH 13 Band edge

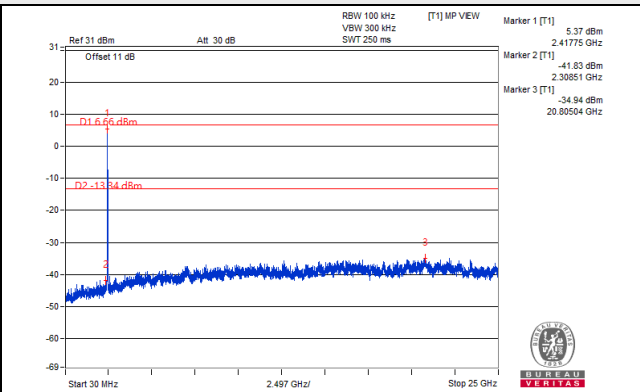
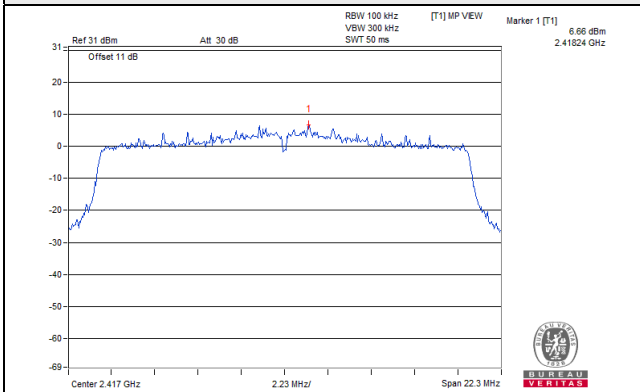


802.11ax (HE20)_Chain 0

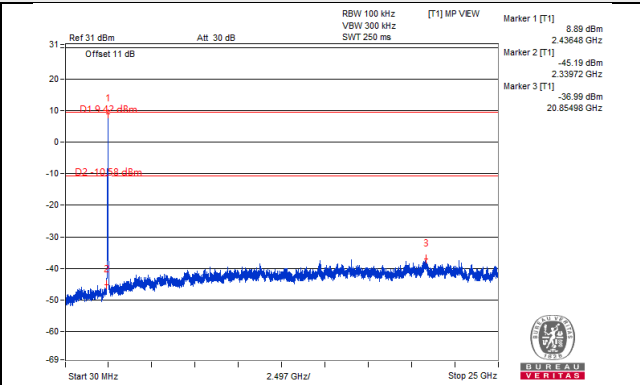
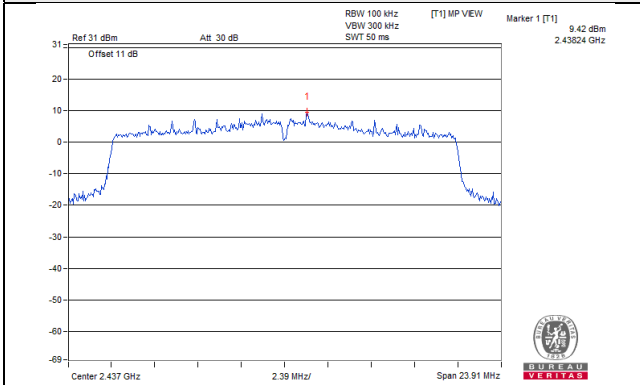
CH 1



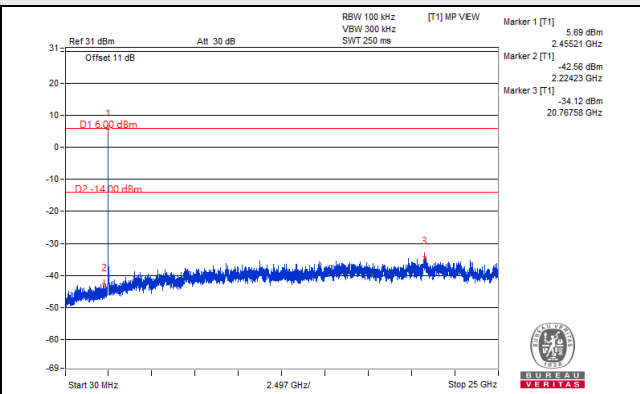
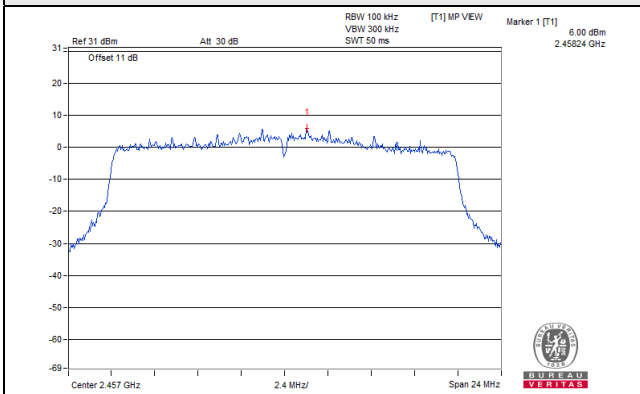
CH 2



CH 6

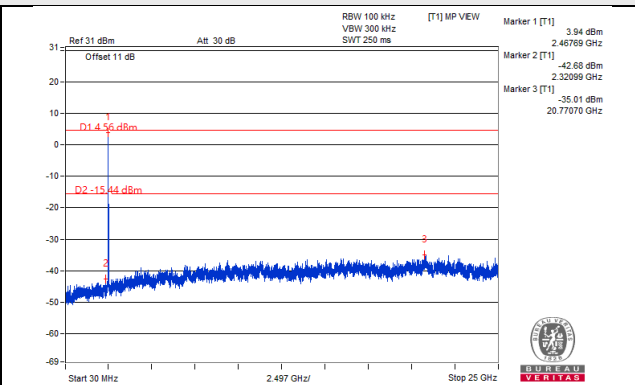
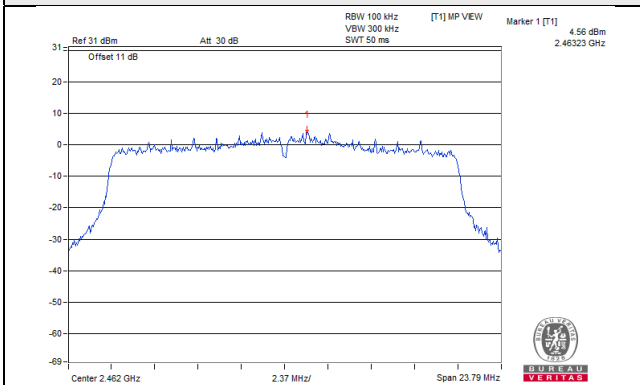


CH 10

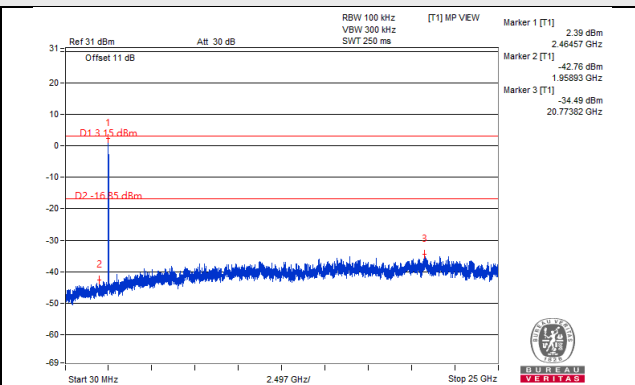
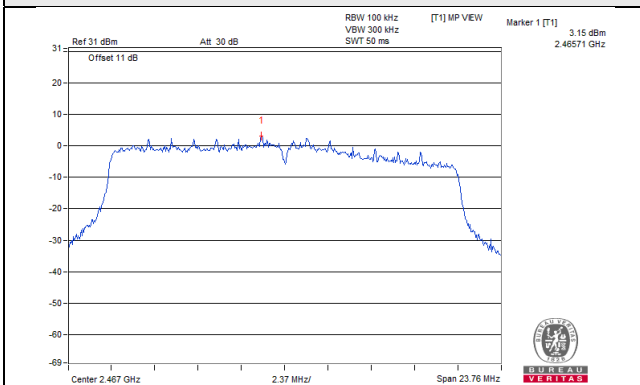




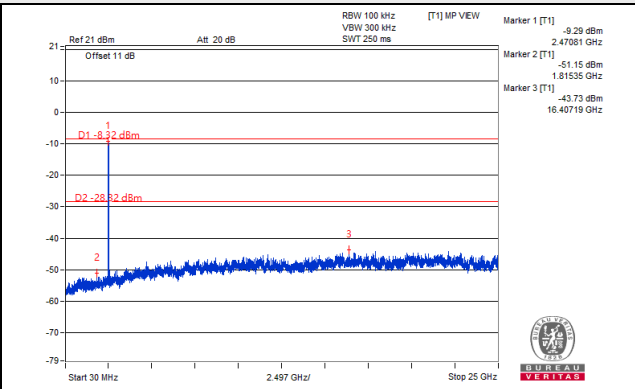
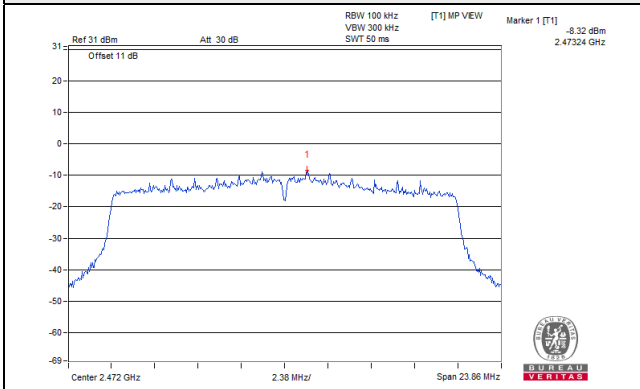
CH 11



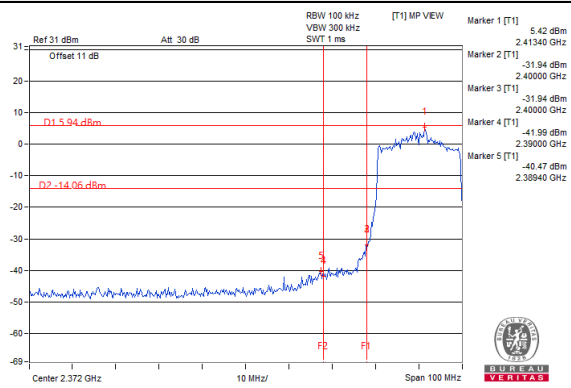
CH 12



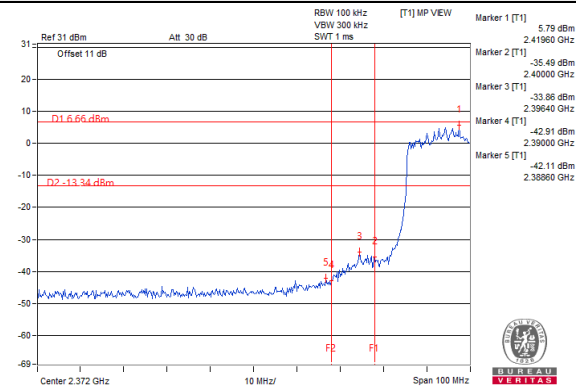
CH 13



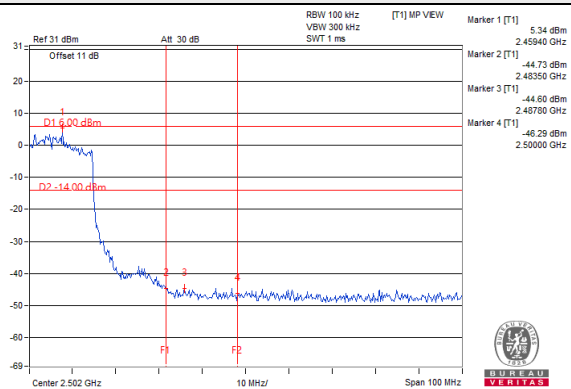
CH 1 Band edge



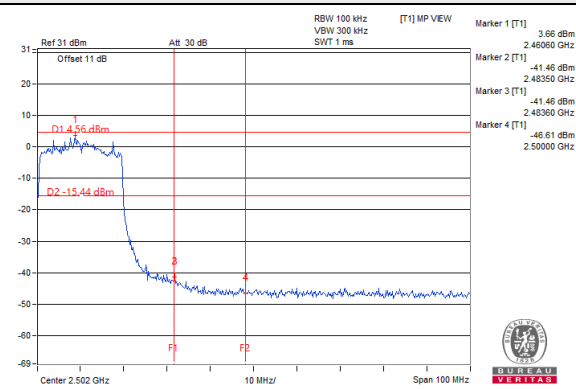
CH 2 Band edge



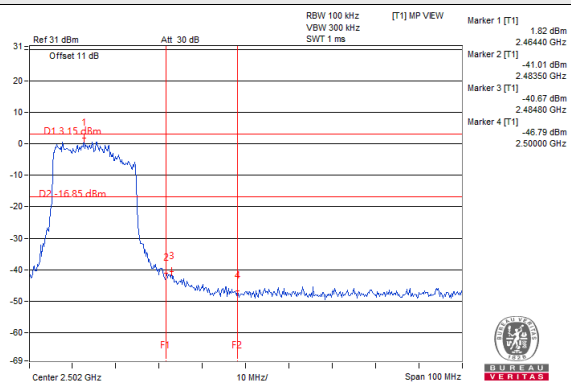
CH 10 Band edge



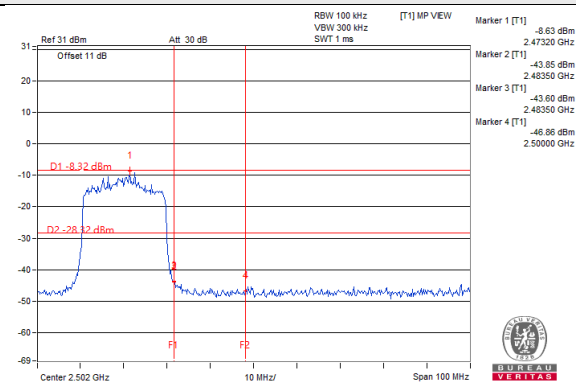
CH 11 Band edge



CH 12 Band edge

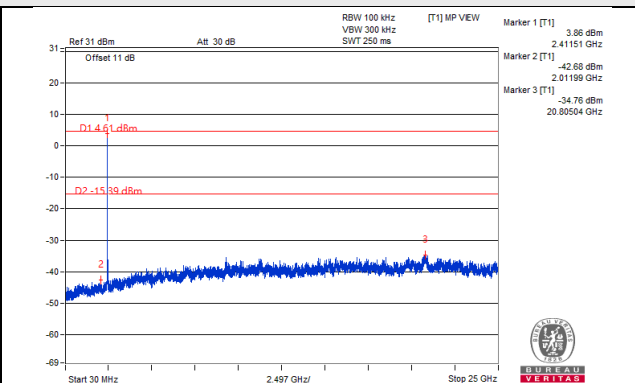
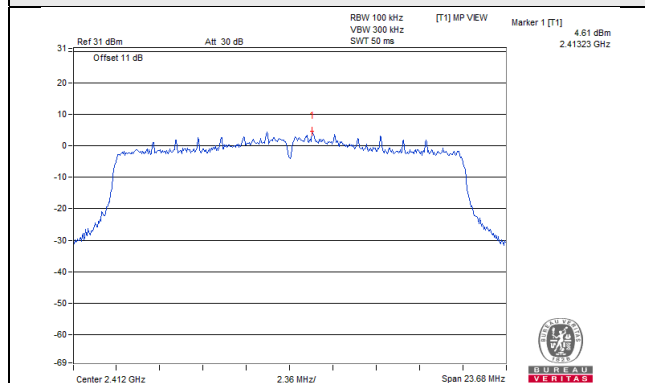


CH 13 Band edge

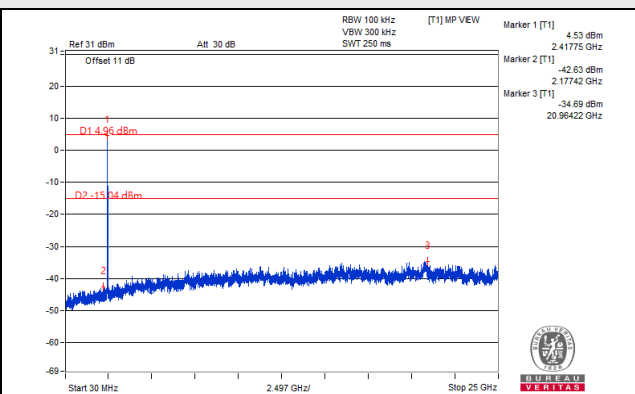
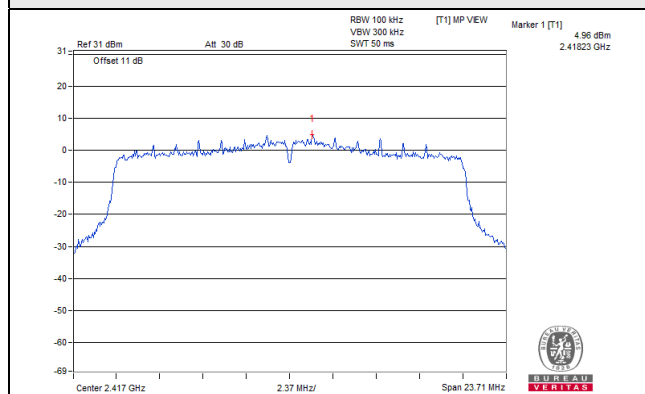


802.11ax (HE20)_Chain 1

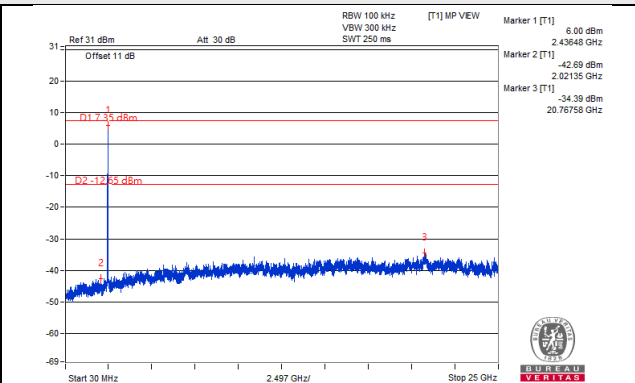
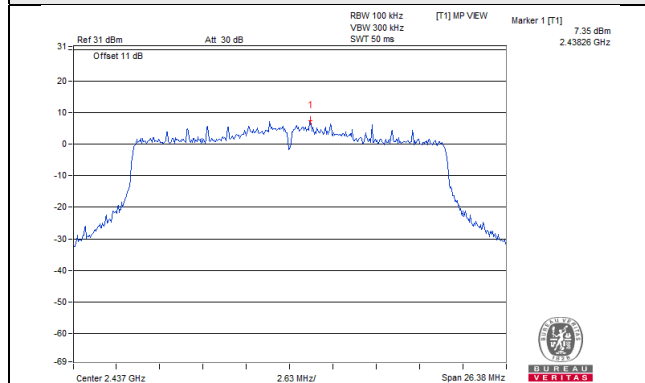
CH 1



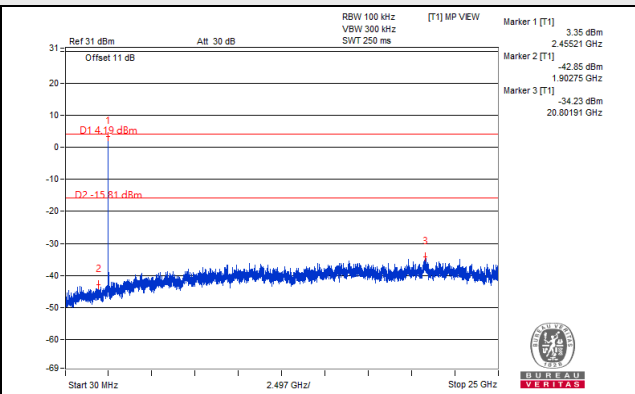
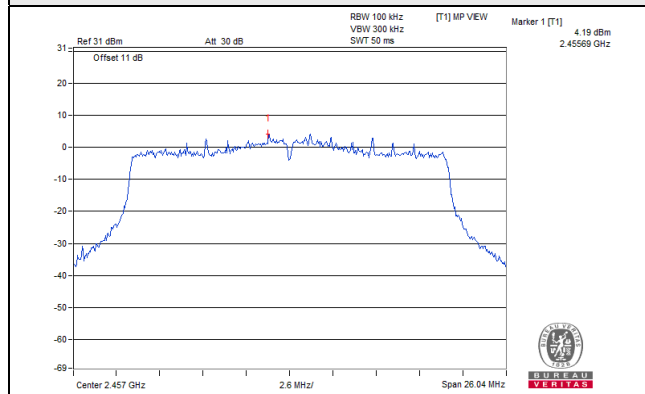
CH 2



CH 6

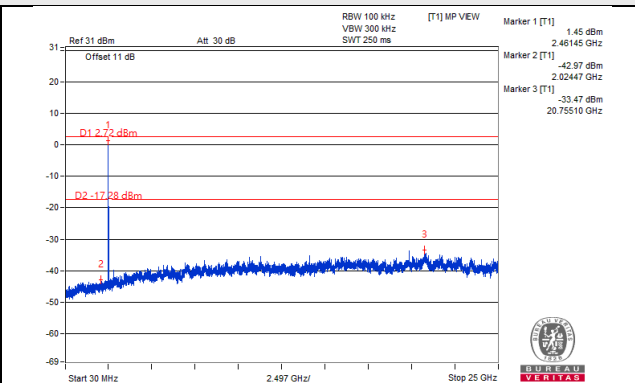
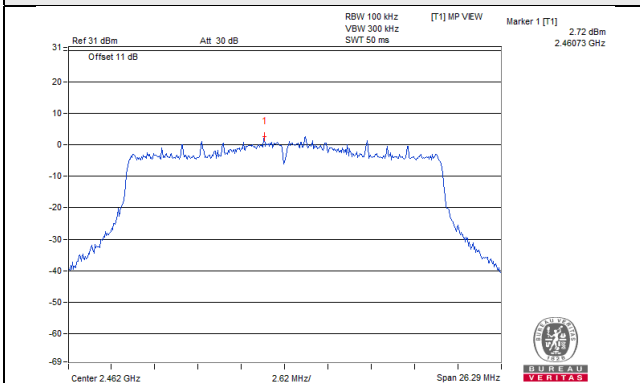


CH 10

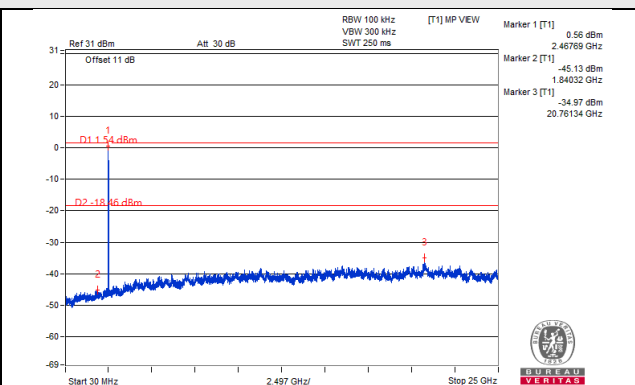
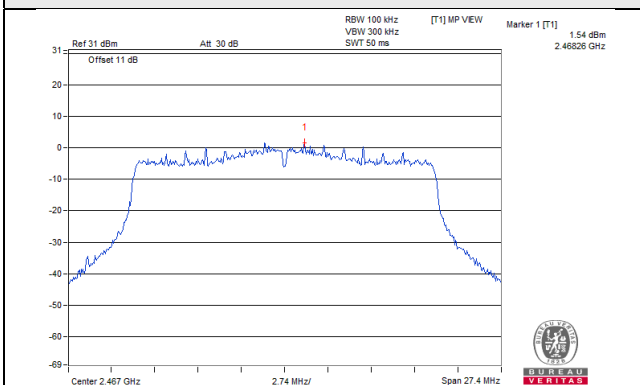




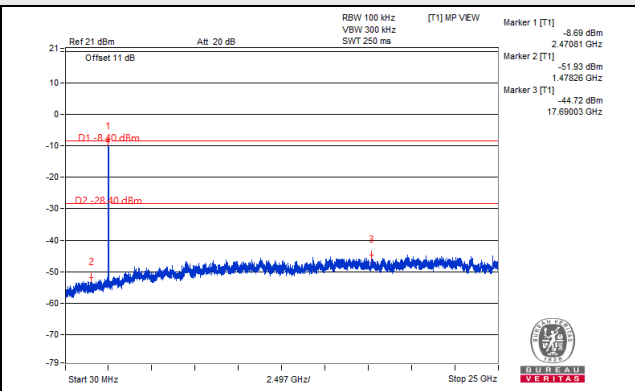
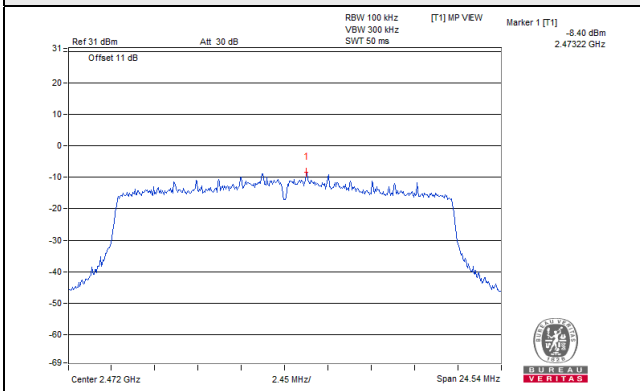
CH 11



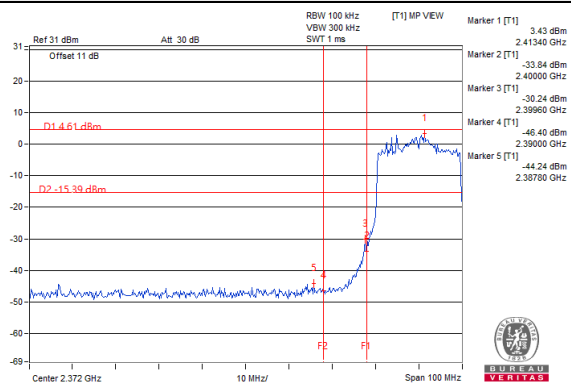
CH 12



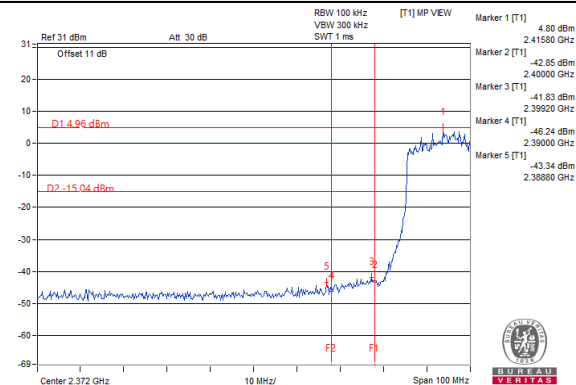
CH 13



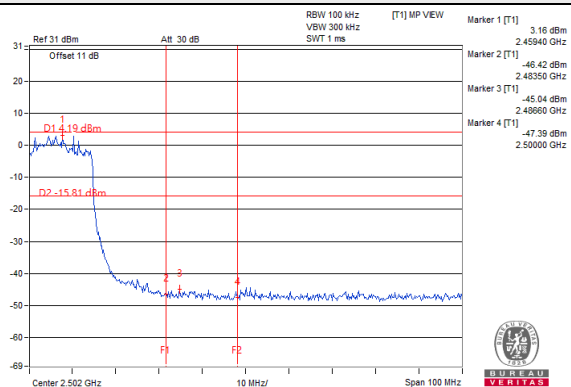
CH 1 Band edge



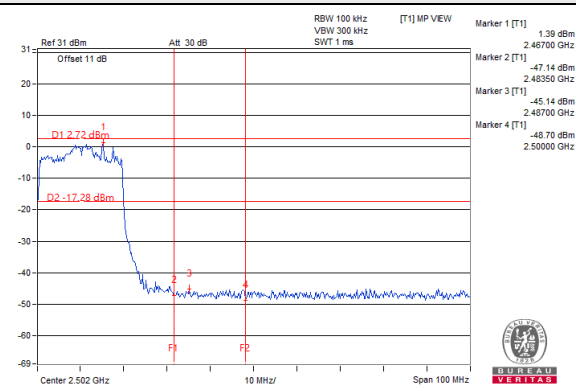
CH 2 Band edge



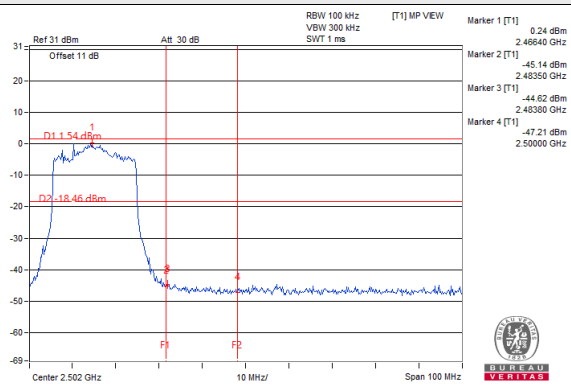
CH 10 Band edge



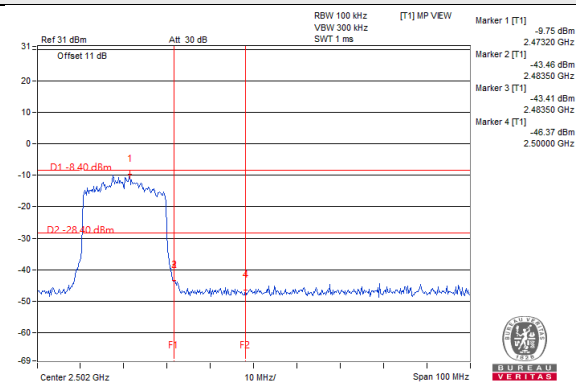
CH 11 Band edge



CH 12 Band edge

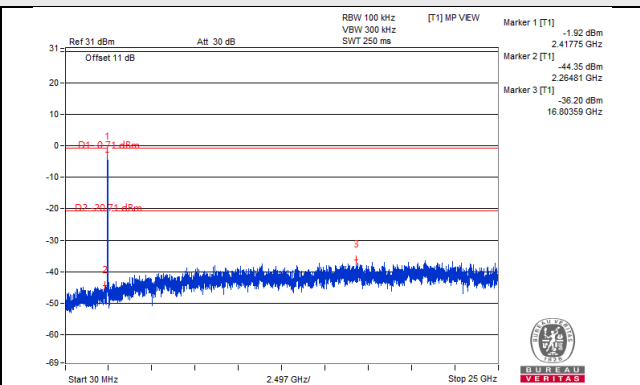
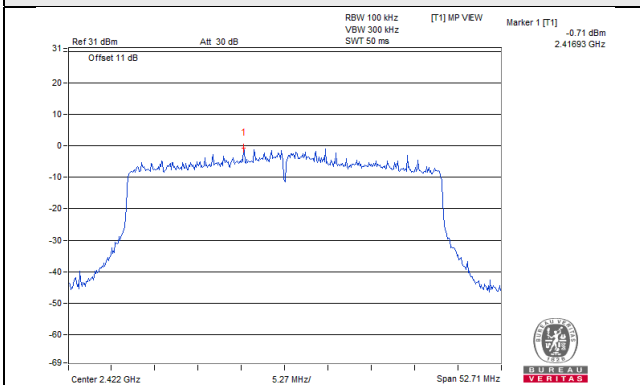


CH 13 Band edge

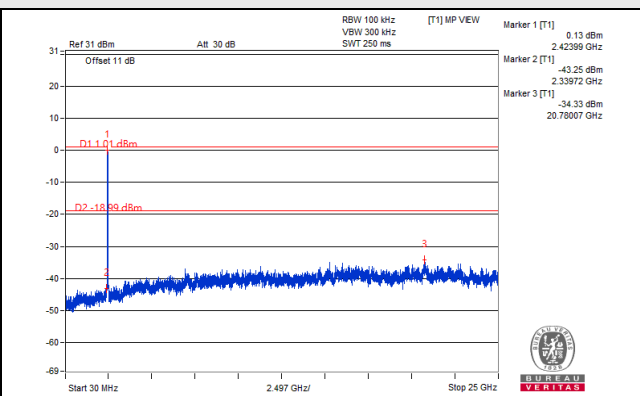
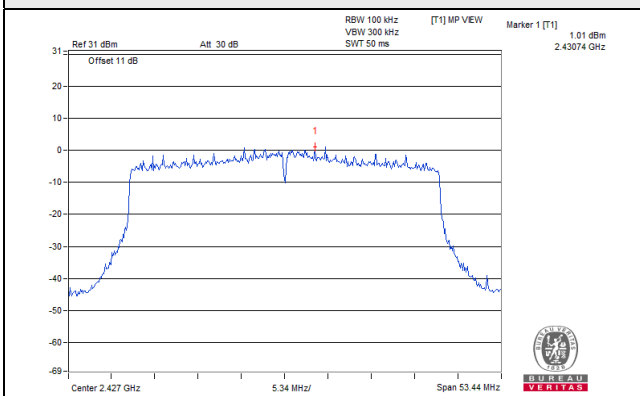


802.11ax (HE40)_Chain 0

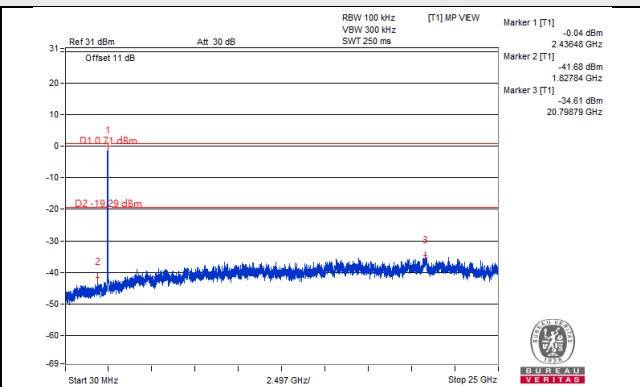
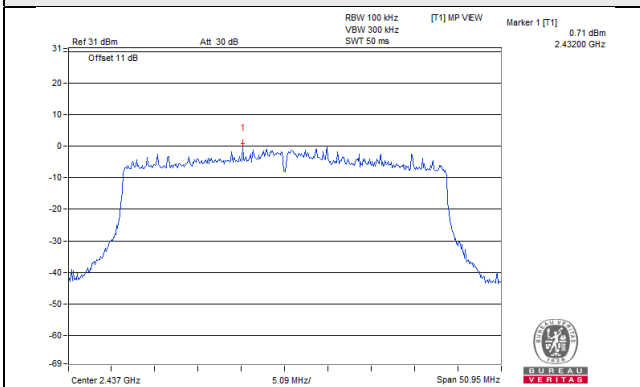
CH 3



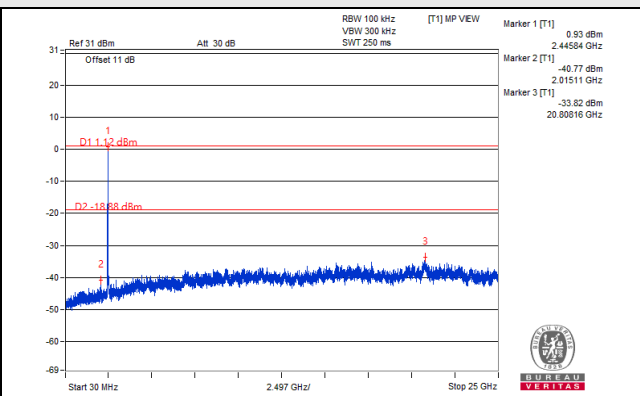
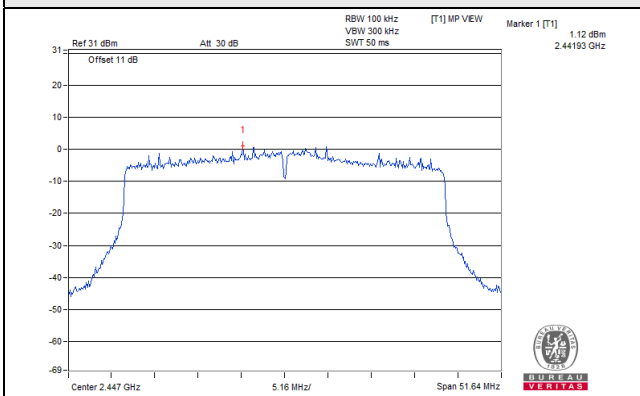
CH 4



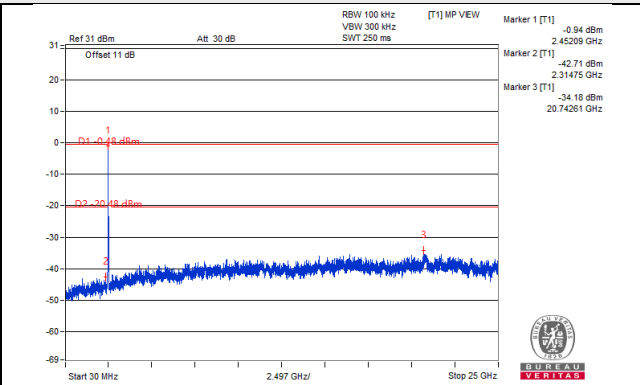
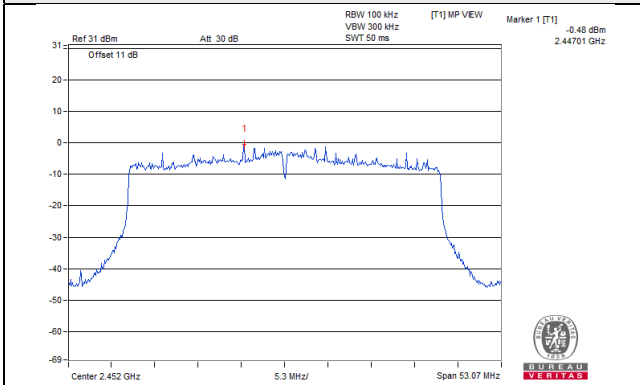
CH 6



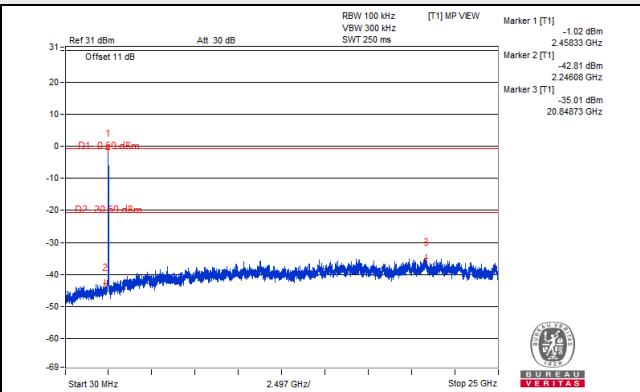
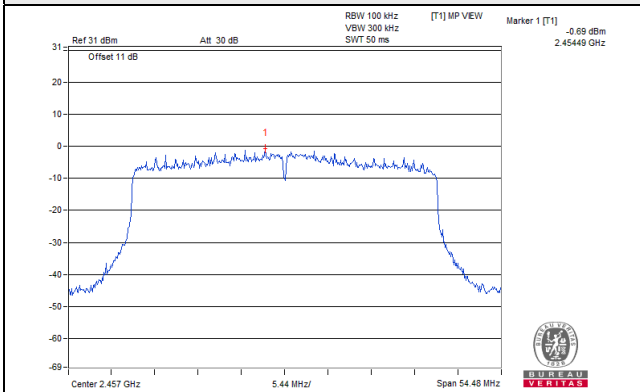
CH 8



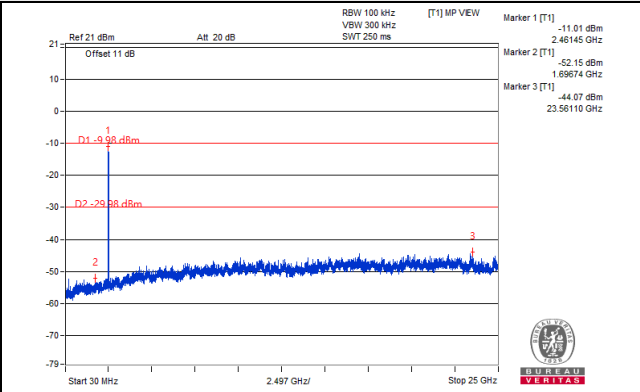
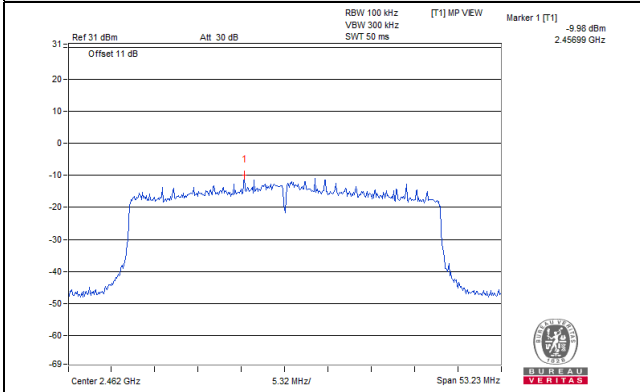
CH 9



CH 10

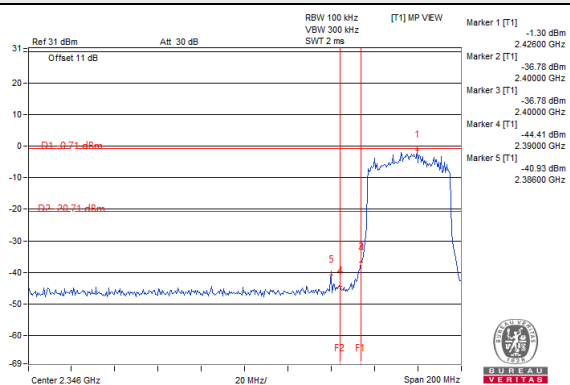


CH 11

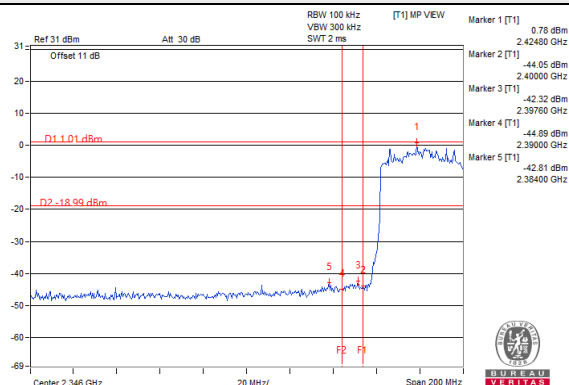




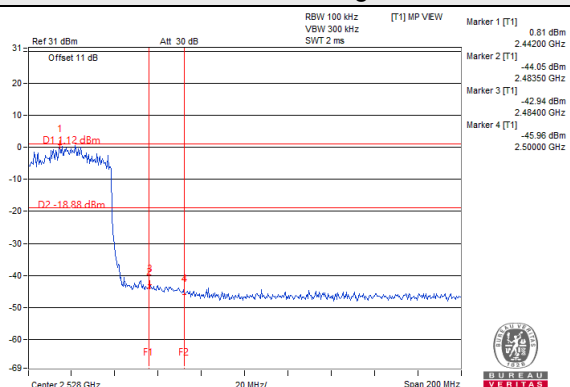
CH 3 Band edge



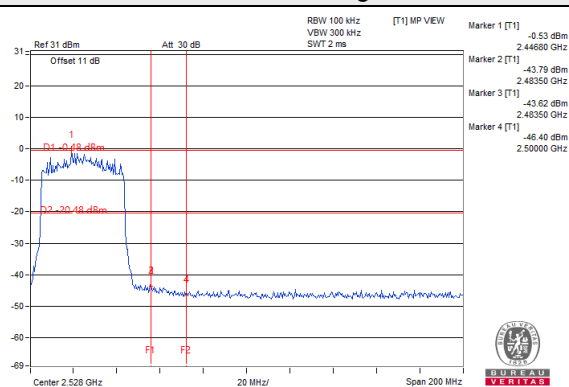
CH 4 Band edge



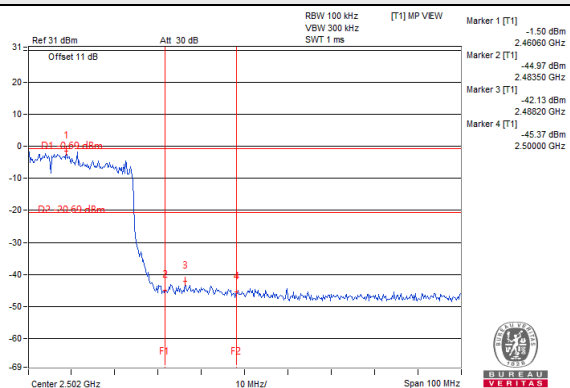
CH 8 Band edge



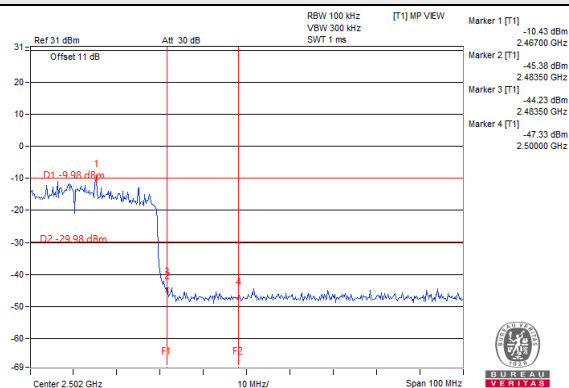
CH 9 Band edge



CH 10 Band edge

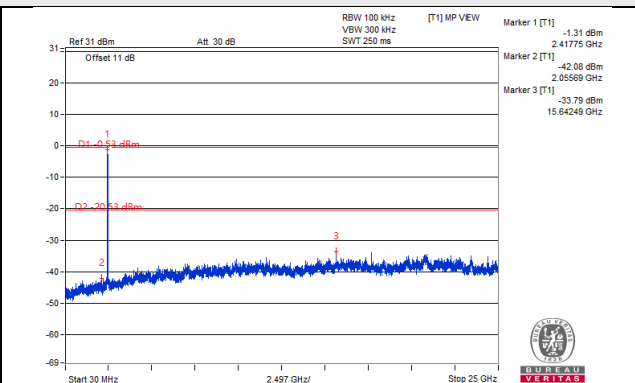
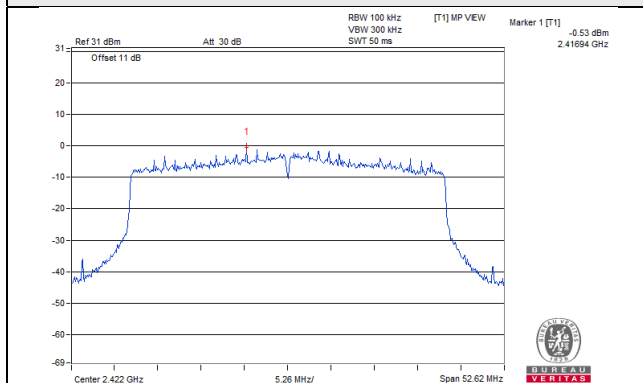


CH 11 Band edge

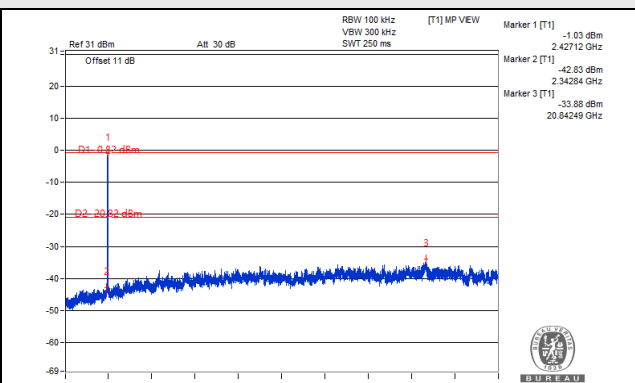
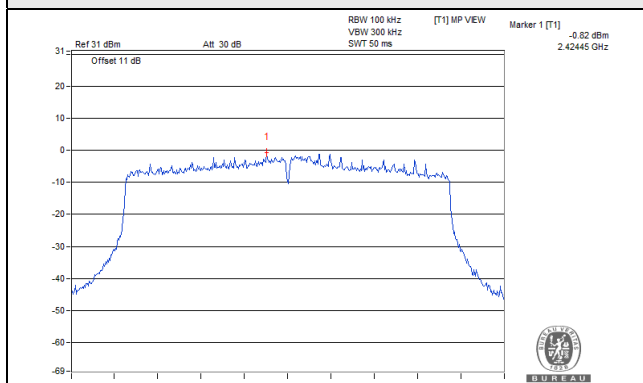


802.11ax (HE40)_Chain 1

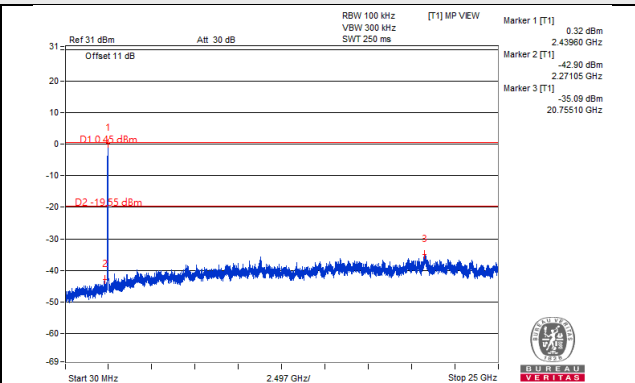
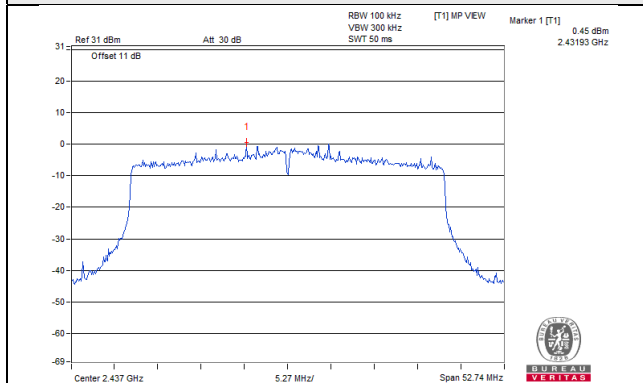
CH 3



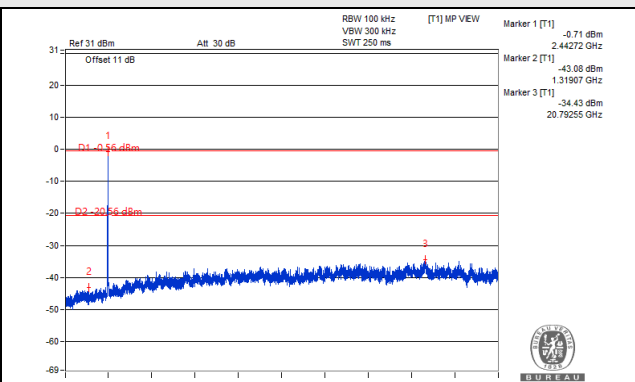
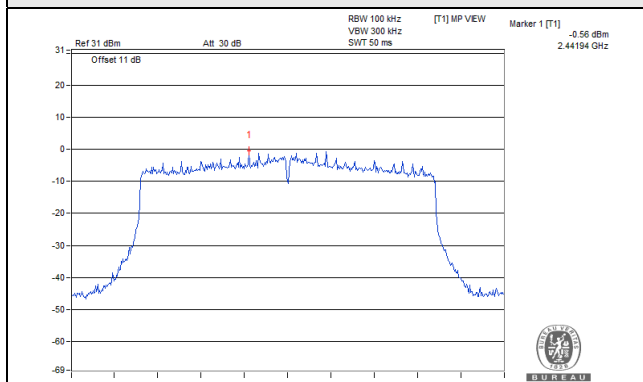
CH 4



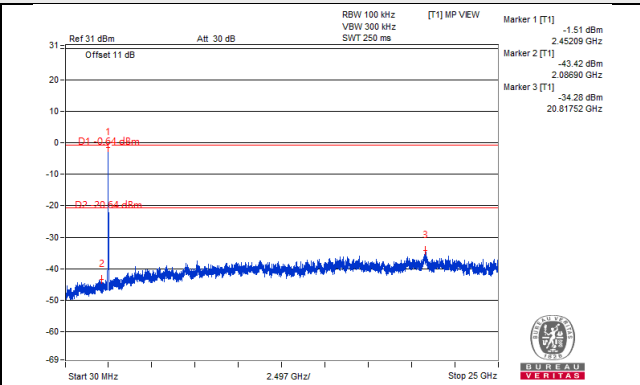
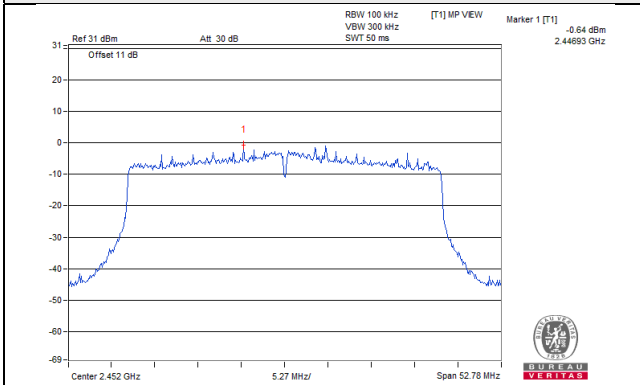
CH 6



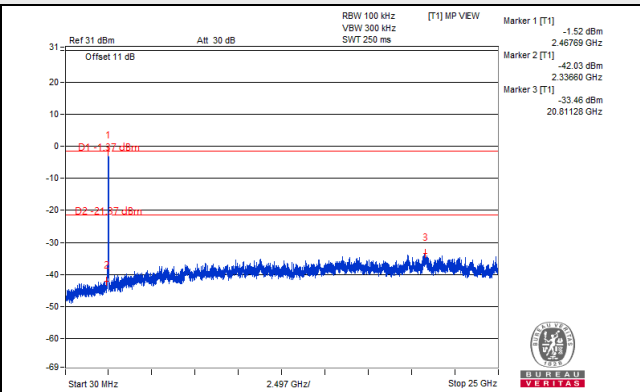
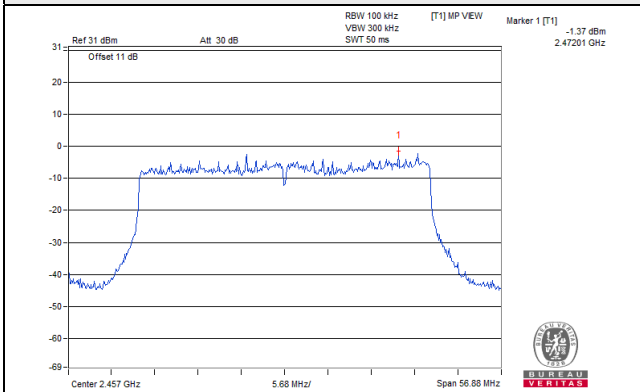
CH 8



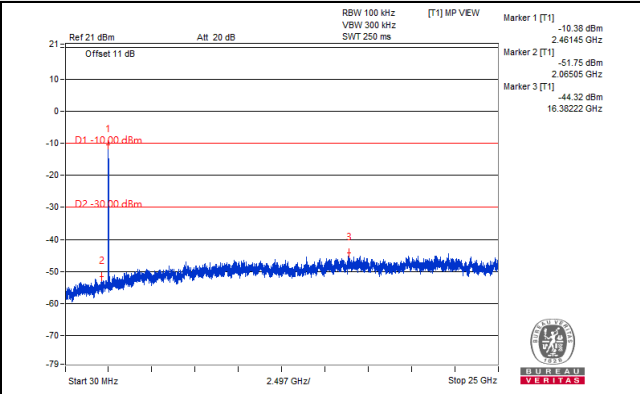
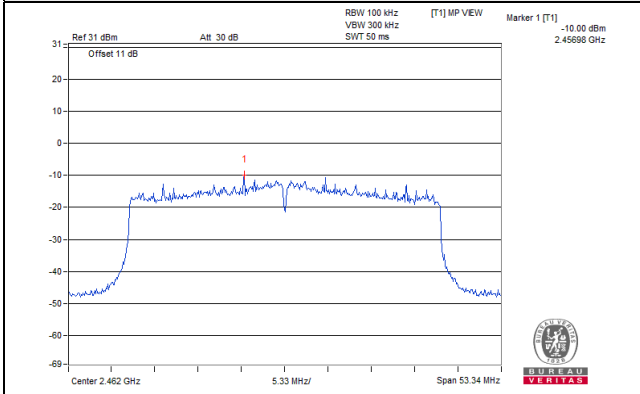
CH 9



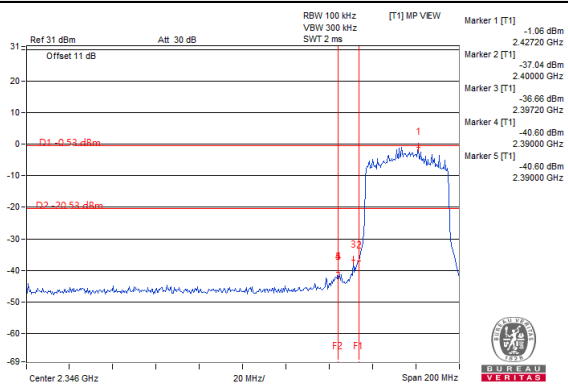
CH 10



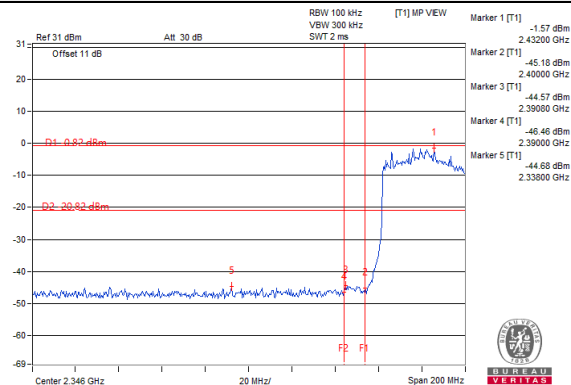
CH 11



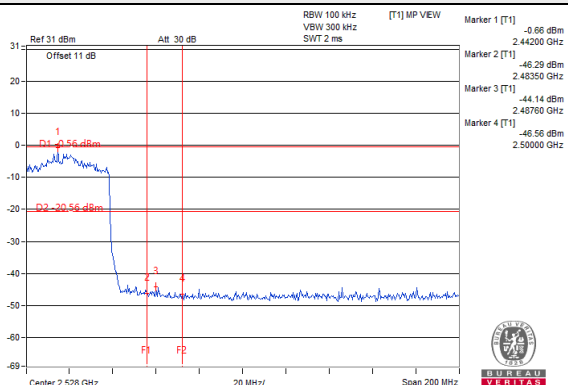
CH 3 Band edge



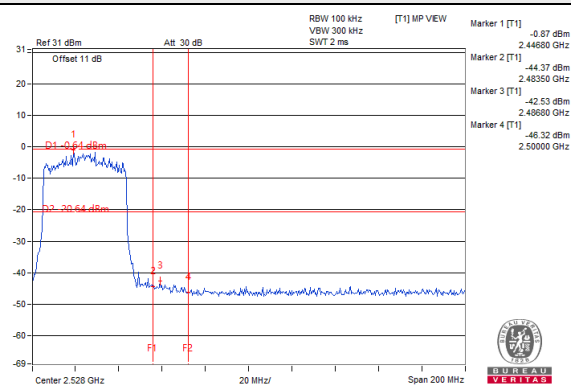
CH 4 Band edge



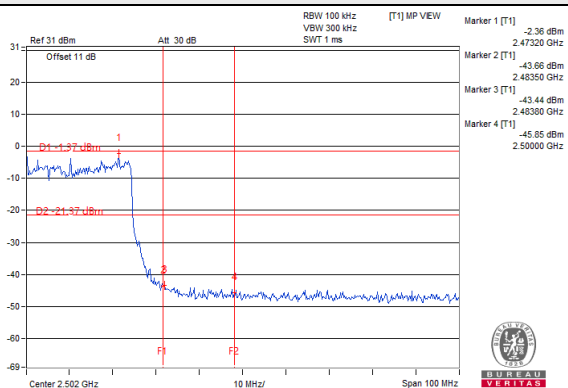
CH 8 Band edge



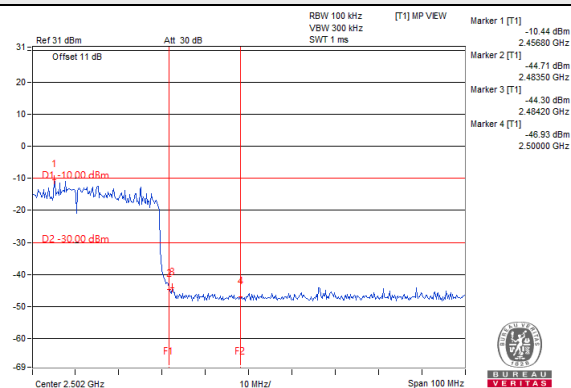
CH 9 Band edge



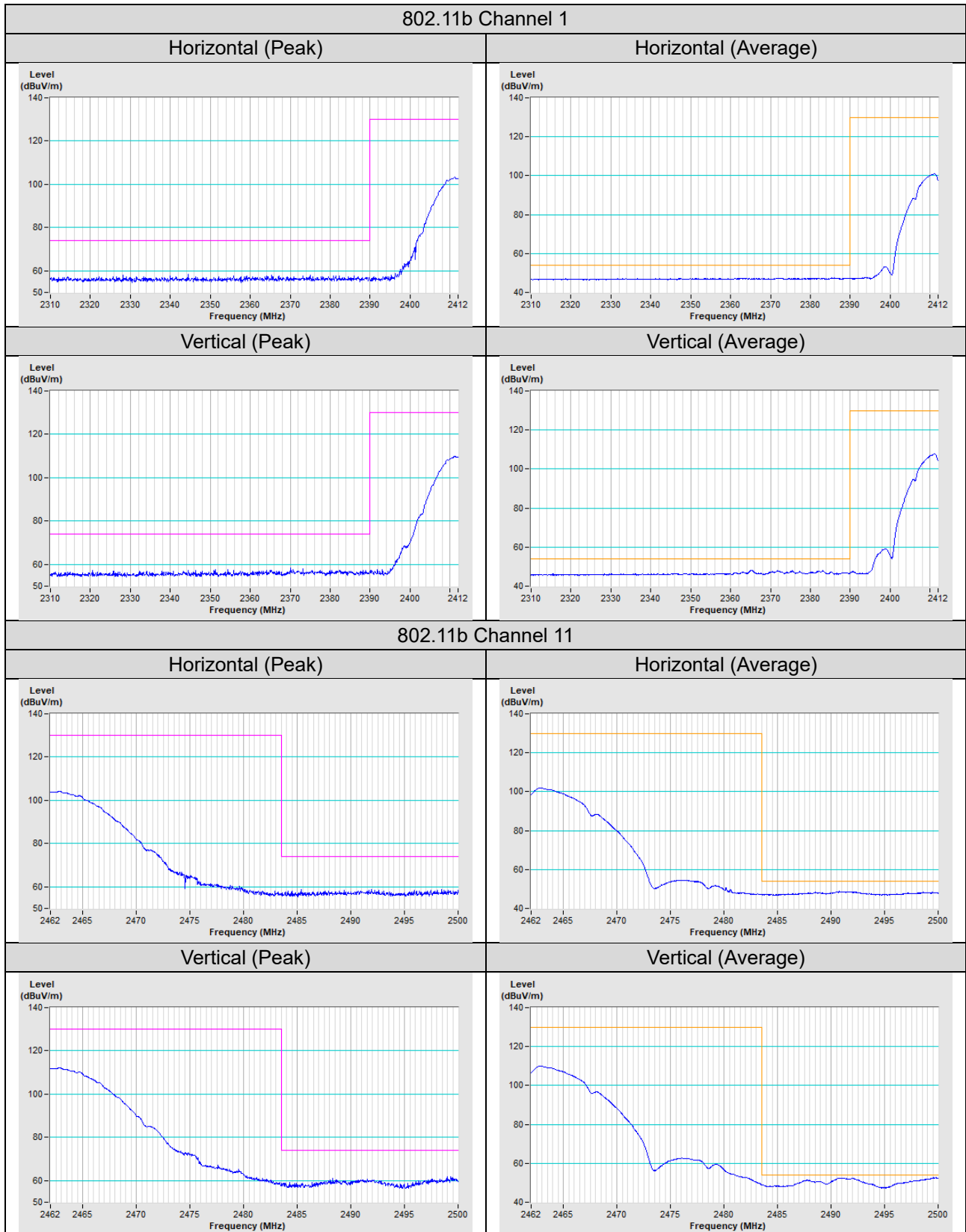
CH 10 Band edge



CH 11 Band edge

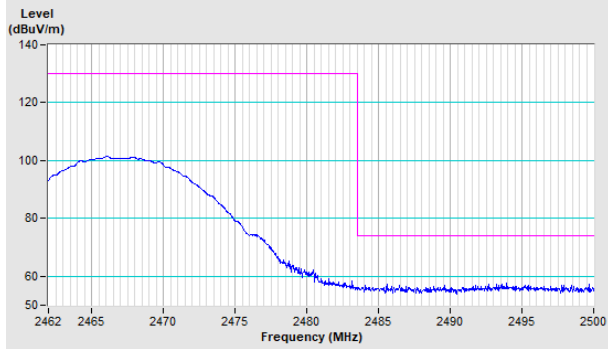


Annex A - Band Edge Measurement

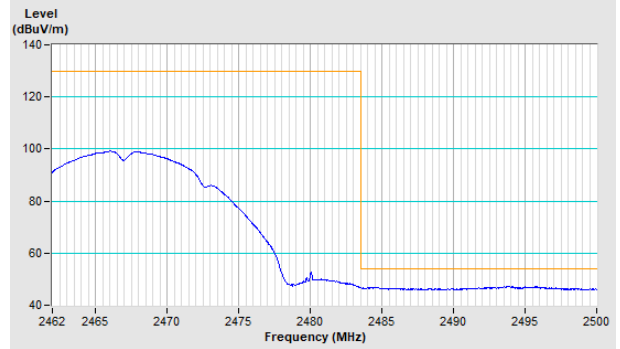


802.11b Channel 12

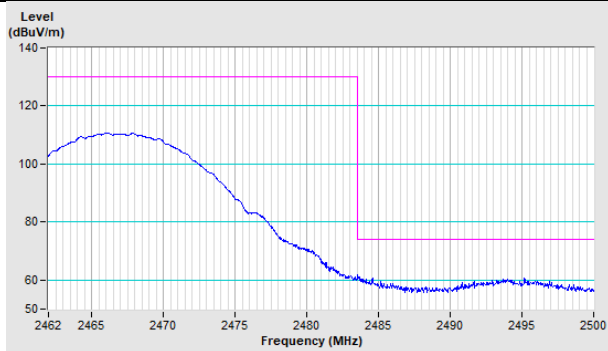
Horizontal (Peak)



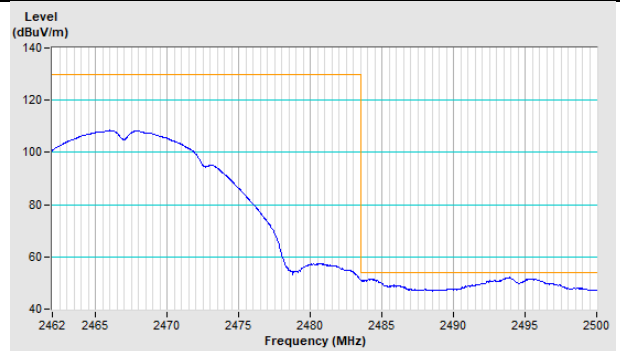
Horizontal (Average)



Vertical (Peak)

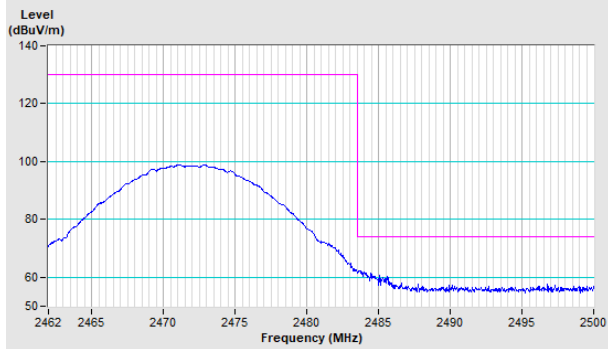


Vertical (Average)

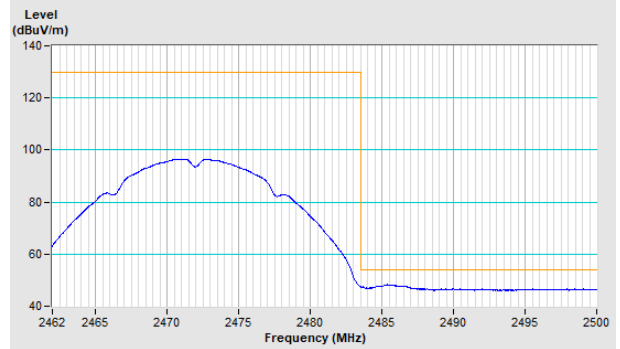


802.11b Channel 13

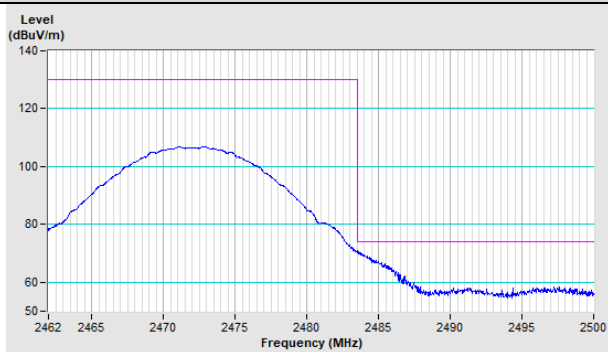
Horizontal (Peak)



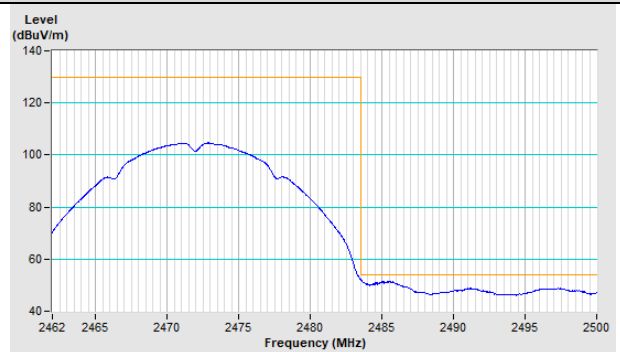
Horizontal (Average)



Vertical (Peak)

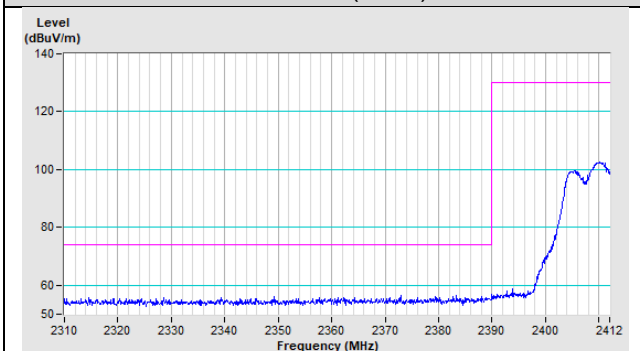


Vertical (Average)

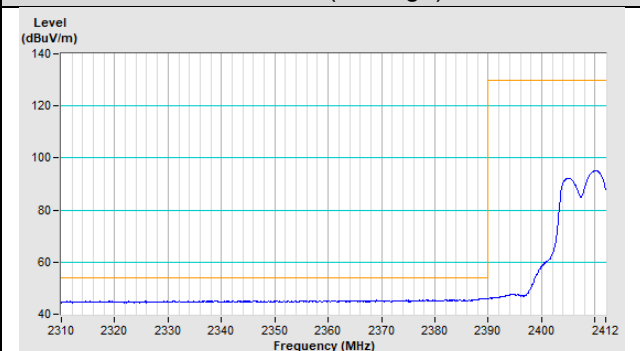


802.11g Channel 1

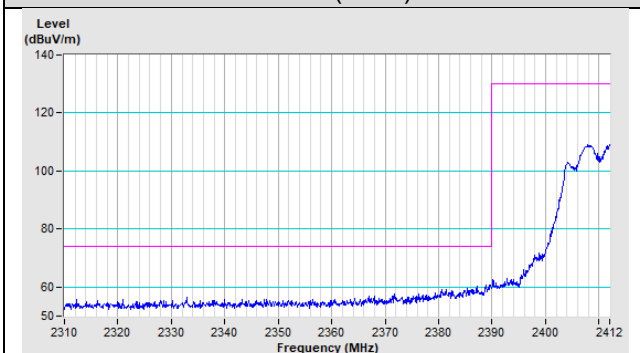
Horizontal (Peak)



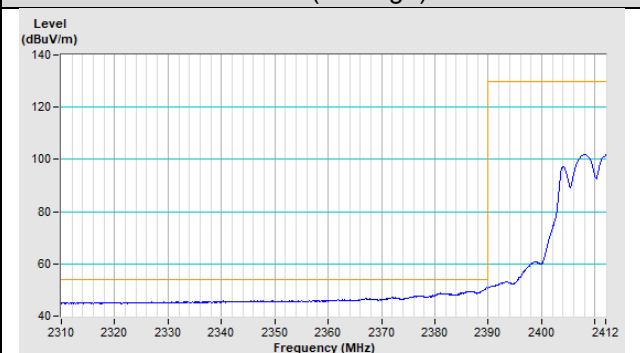
Horizontal (Average)



Vertical (Peak)

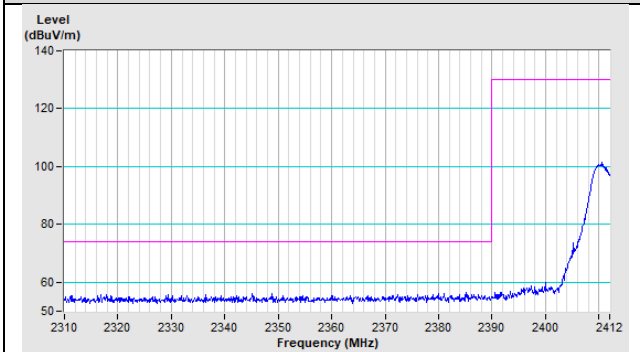


Vertical (Average)

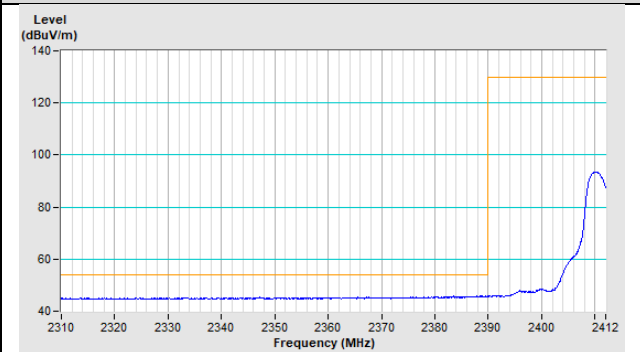


802.11g Channel 2

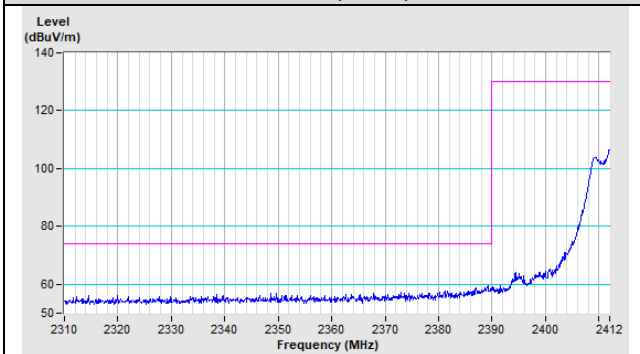
Horizontal (Peak)



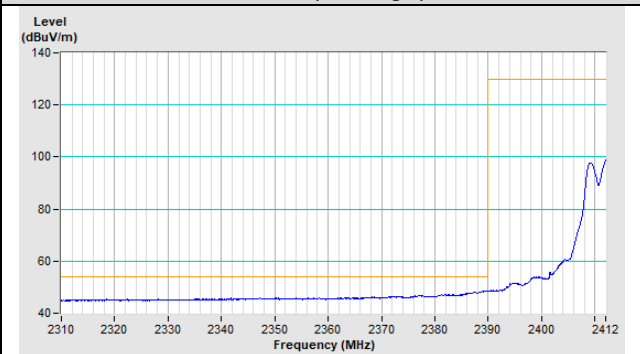
Horizontal (Average)



Vertical (Peak)

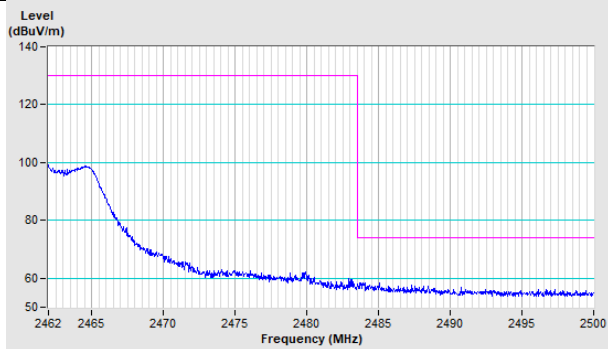


Vertical (Average)

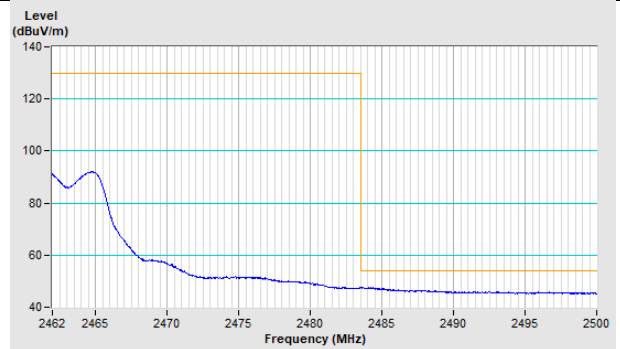


802.11g Channel 10

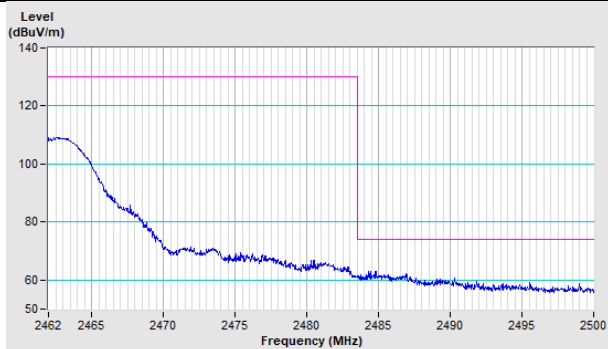
Horizontal (Peak)



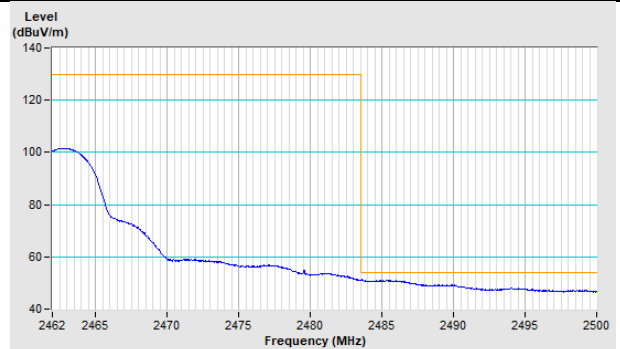
Horizontal (Average)



Vertical (Peak)

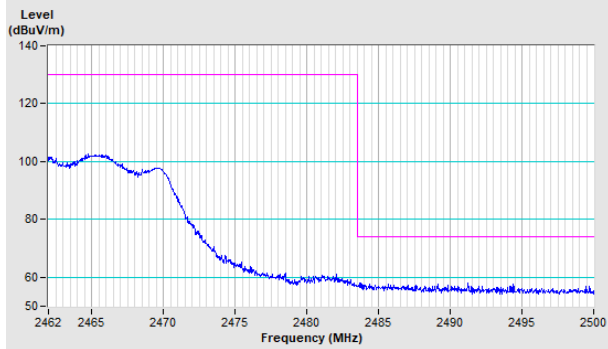


Vertical (Average)

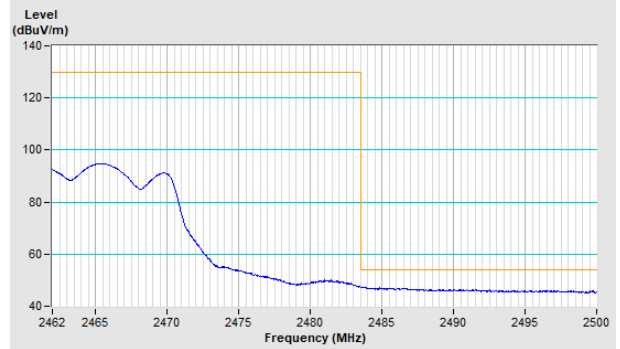


802.11g Channel 11

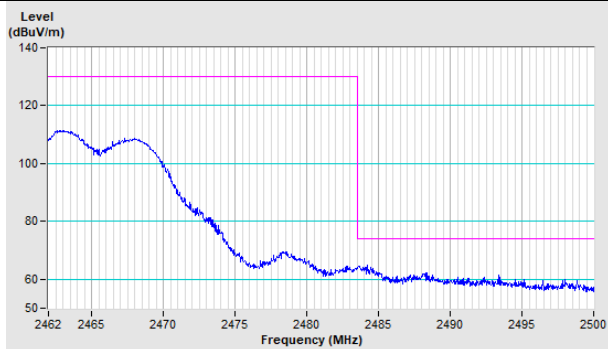
Horizontal (Peak)



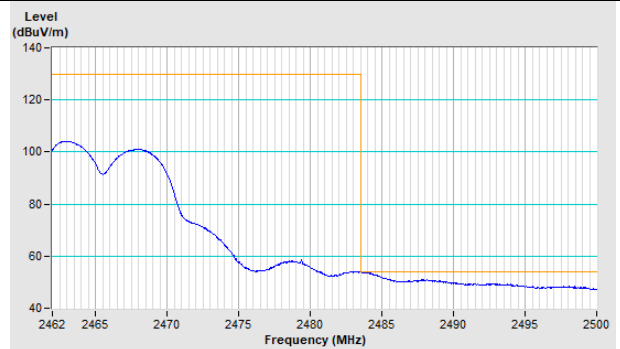
Horizontal (Average)



Vertical (Peak)

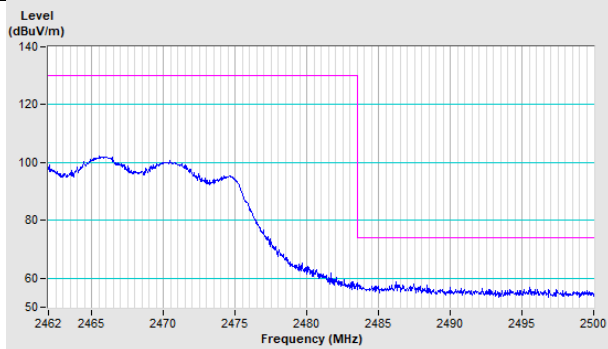


Vertical (Average)

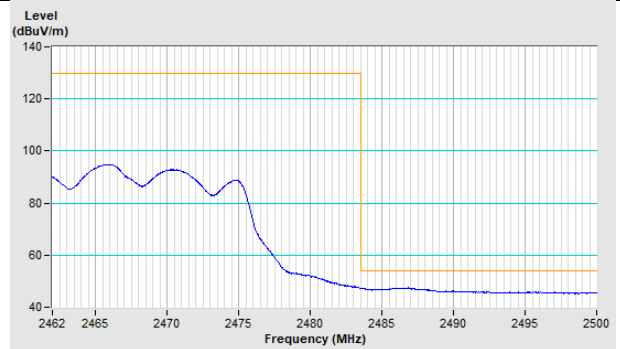


802.11g Channel 12

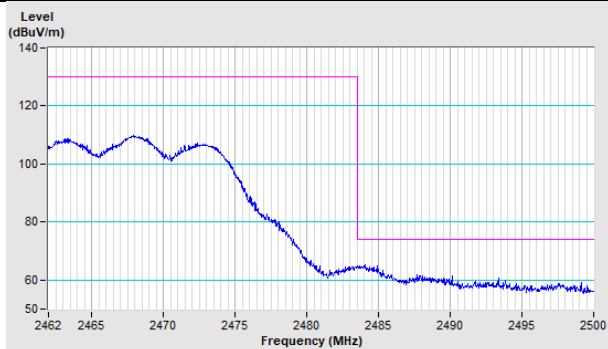
Horizontal (Peak)



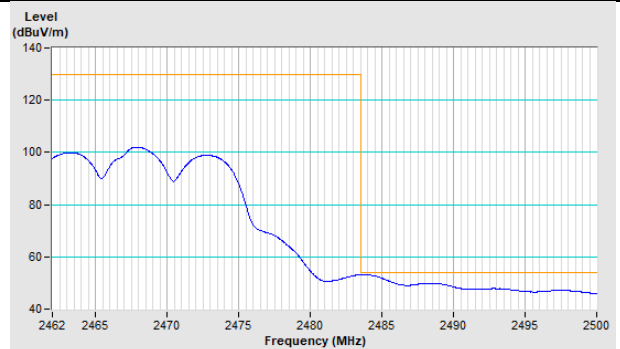
Horizontal (Average)



Vertical (Peak)

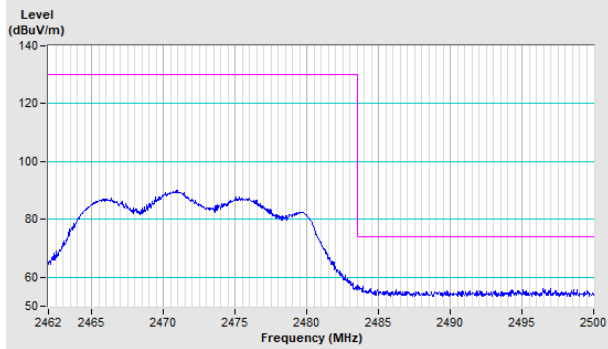


Vertical (Average)

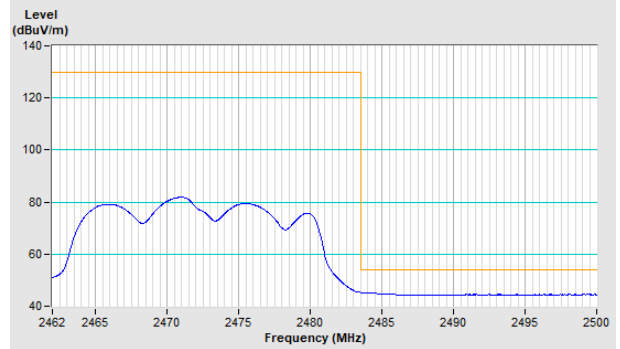


802.11g Channel 13

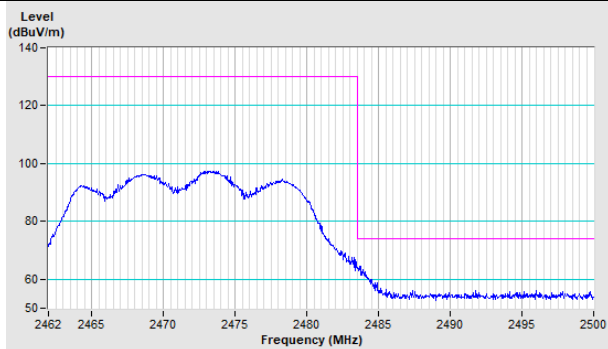
Horizontal (Peak)



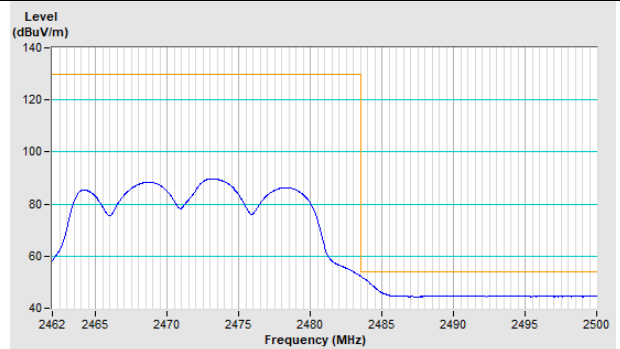
Horizontal (Average)



Vertical (Peak)

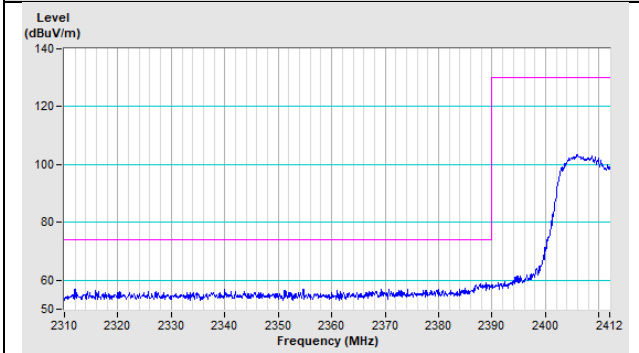


Vertical (Average)

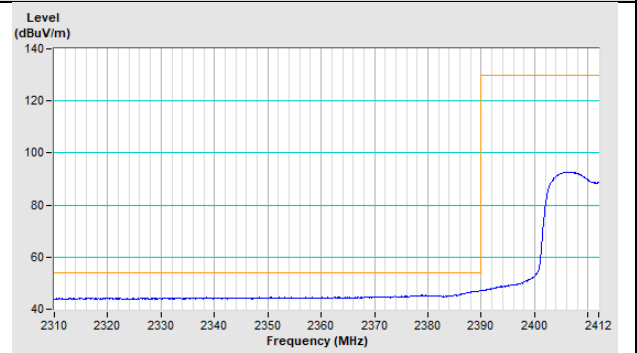


802.11ax (HE20) Channel 1

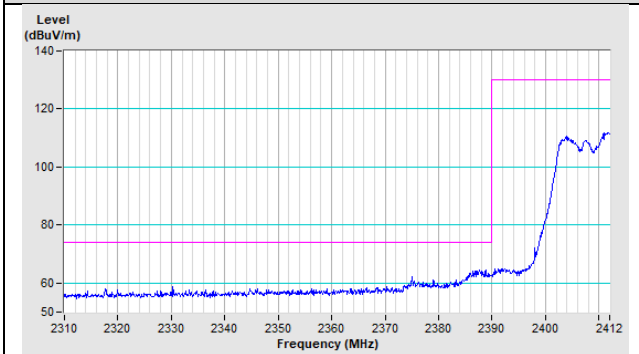
Horizontal (Peak)



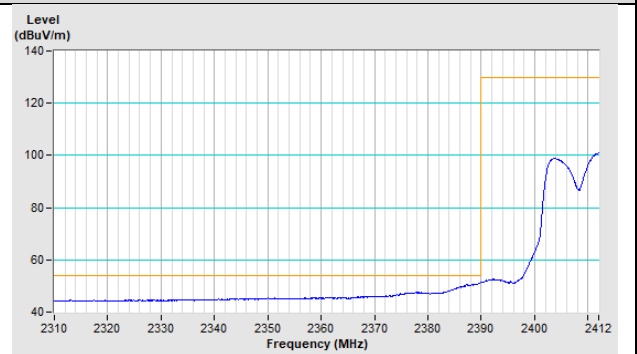
Horizontal (Average)



Vertical (Peak)

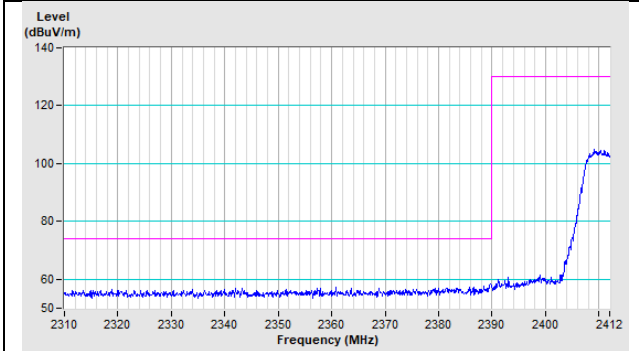


Vertical (Average)

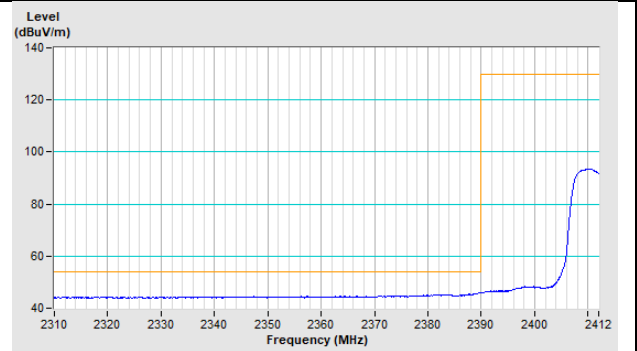


802.11ax (HE20) Channel 2

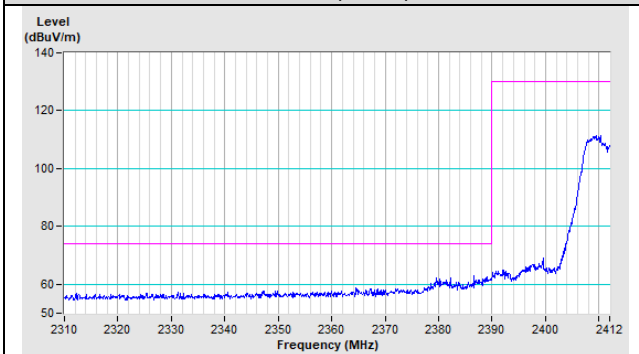
Horizontal (Peak)



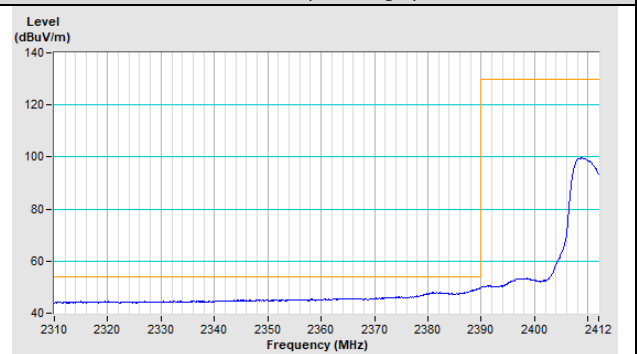
Horizontal (Average)



Vertical (Peak)

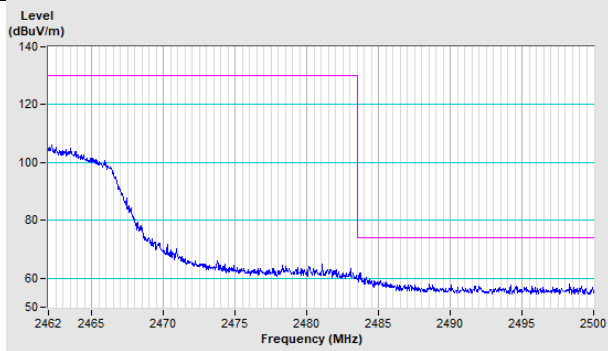


Vertical (Average)

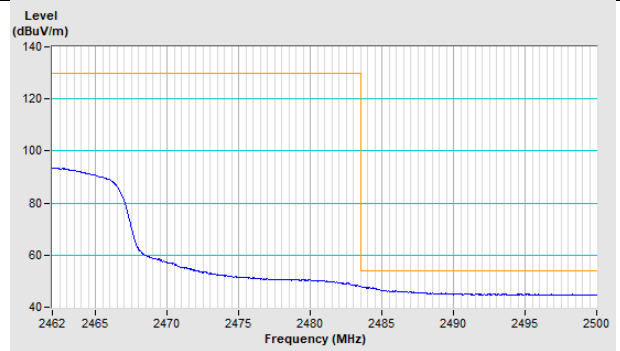


802.11ax (HE20) Channel 10

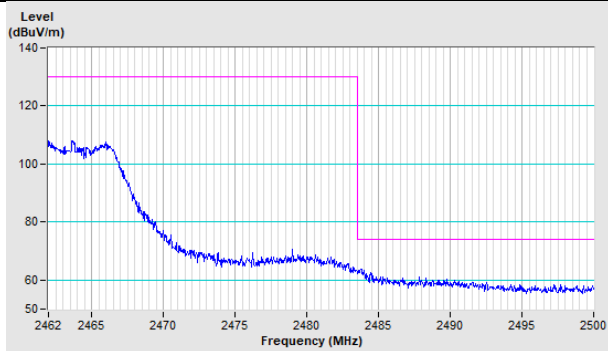
Horizontal (Peak)



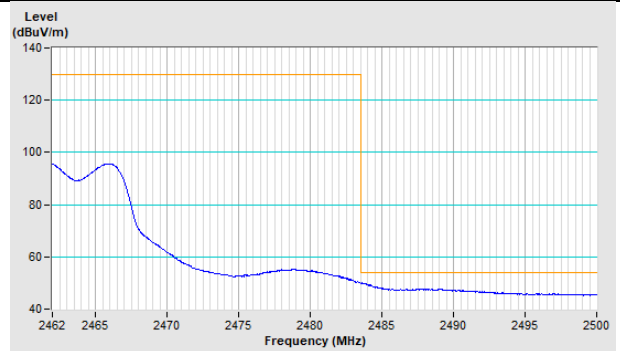
Horizontal (Average)



Vertical (Peak)

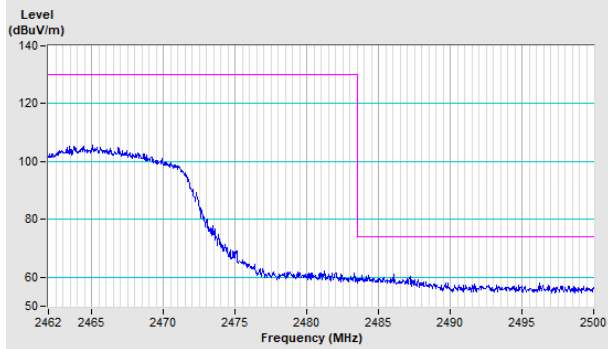


Vertical (Average)

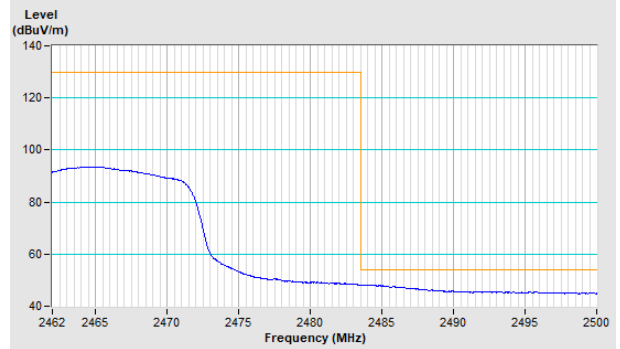


802.11ax (HE20) Channel 11

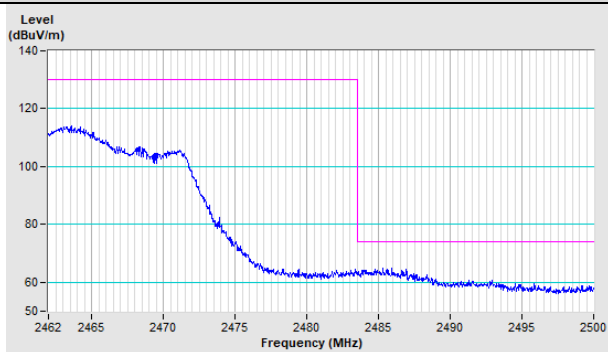
Horizontal (Peak)



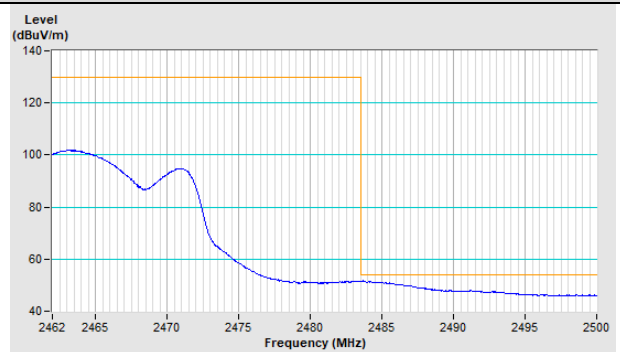
Horizontal (Average)



Vertical (Peak)

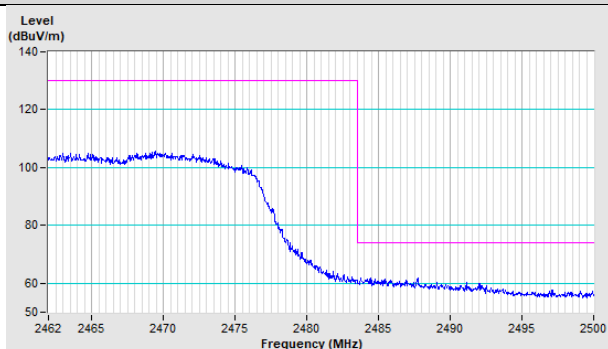


Vertical (Average)

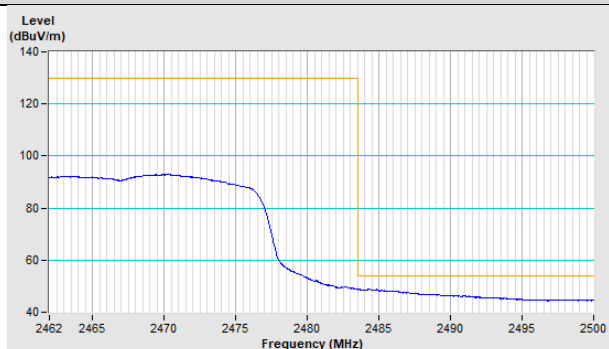


802.11ax (HE20) Channel 12

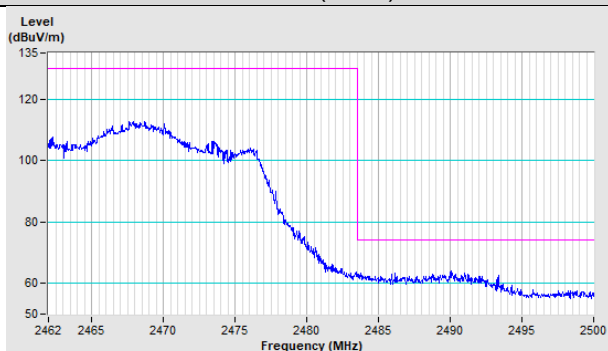
Horizontal (Peak)



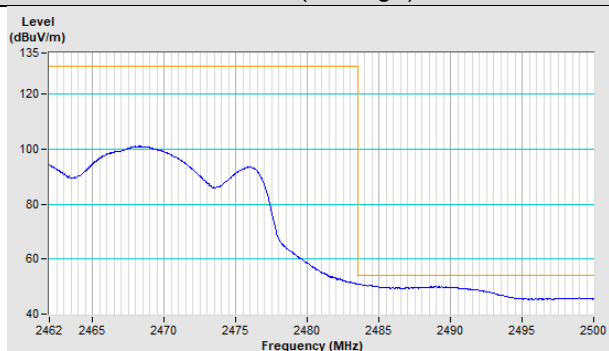
Horizontal (Average)



Vertical (Peak)

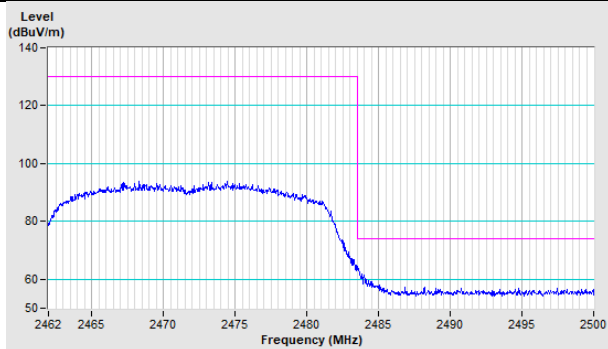


Vertical (Average)

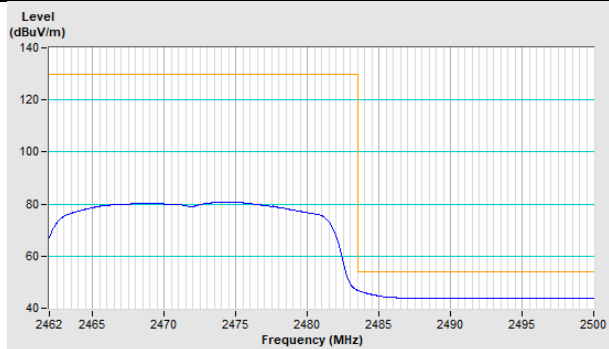


802.11ax (HE20) Channel 13

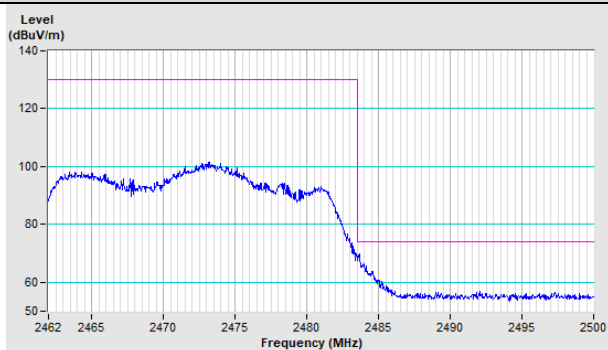
Horizontal (Peak)



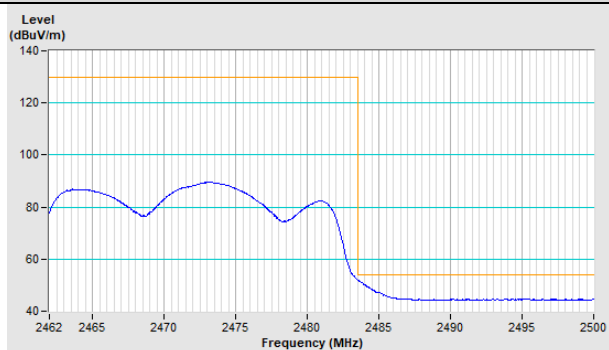
Horizontal (Average)



Vertical (Peak)

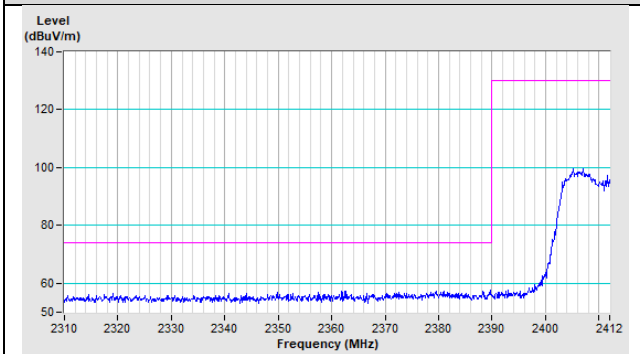


Vertical (Average)

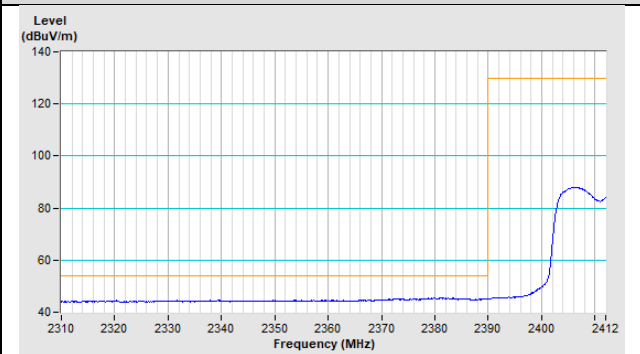


802.11ax (HE40) Channel 3

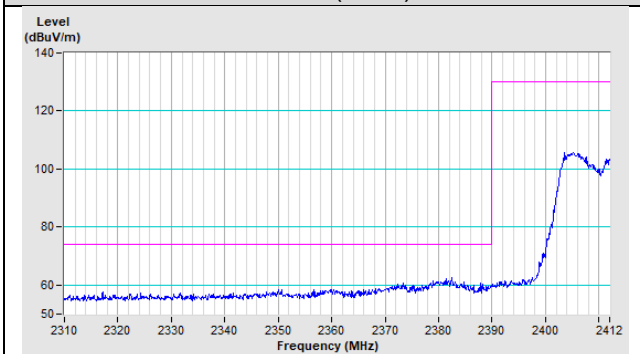
Horizontal (Peak)



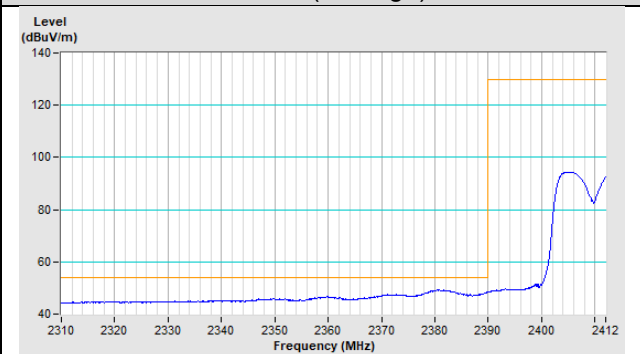
Horizontal (Average)



Vertical (Peak)

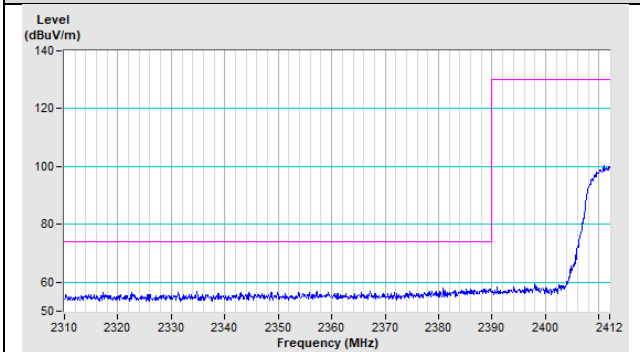


Vertical (Average)

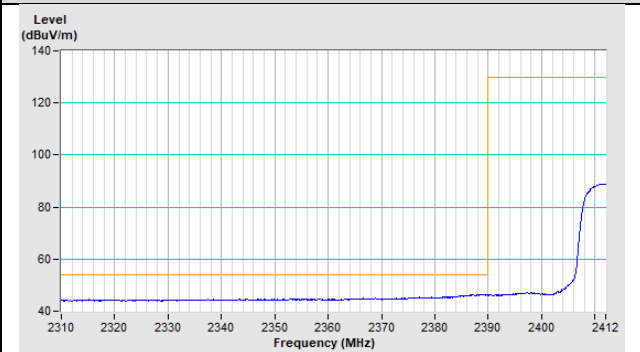


802.11ax (HE40) Channel 4

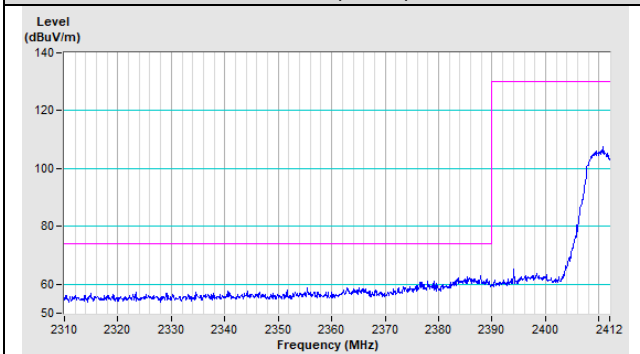
Horizontal (Peak)



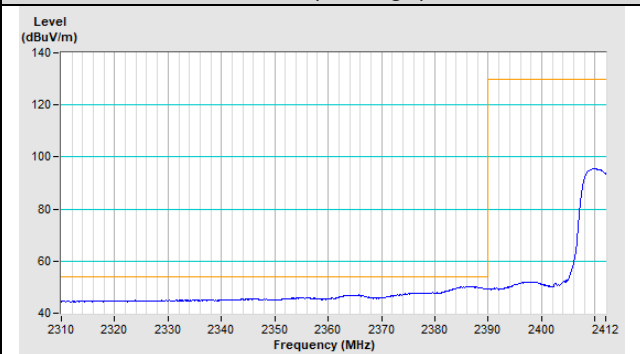
Horizontal (Average)



Vertical (Peak)

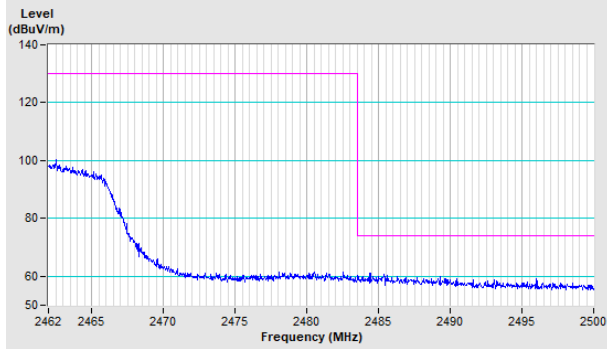


Vertical (Average)

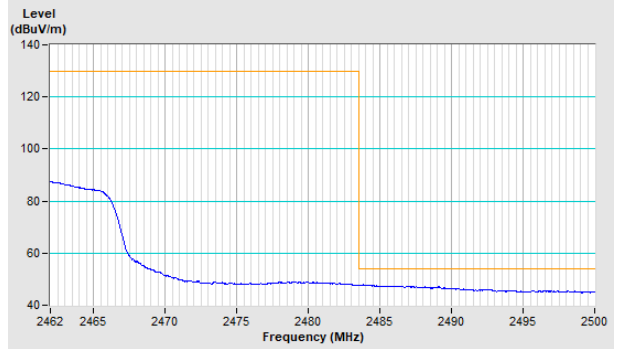


802.11ax (HE40) Channel 8

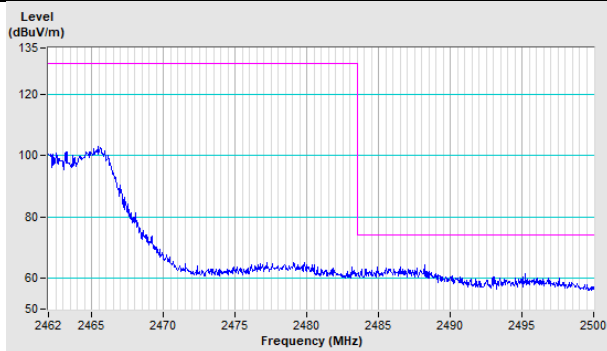
Horizontal (Peak)



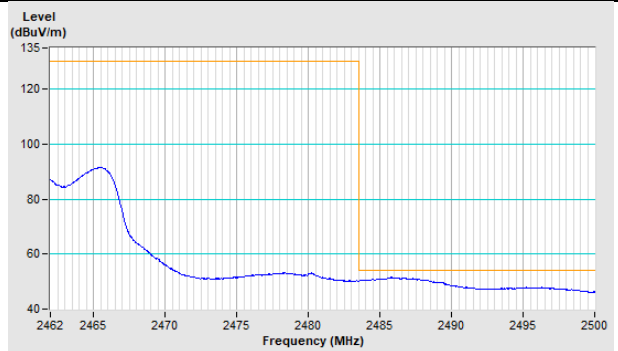
Horizontal (Average)



Vertical (Peak)

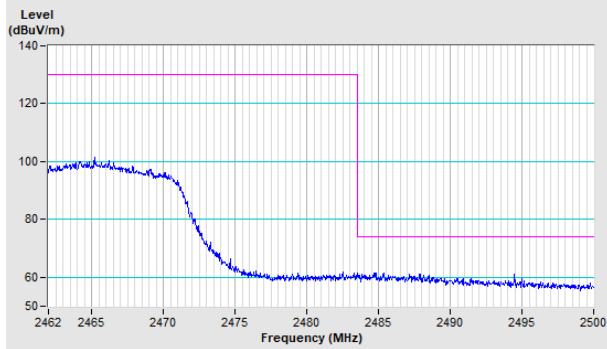


Vertical (Average)

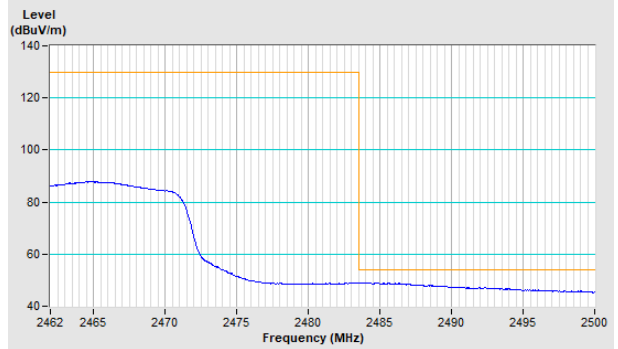


802.11ax (HE40) Channel 9

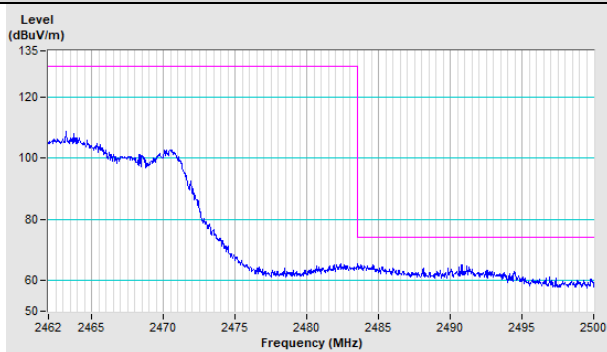
Horizontal (Peak)



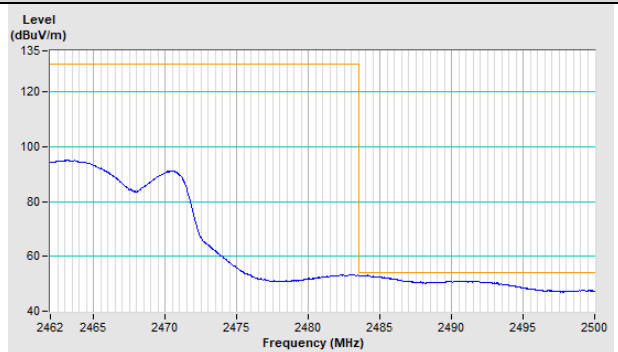
Horizontal (Average)



Vertical (Peak)

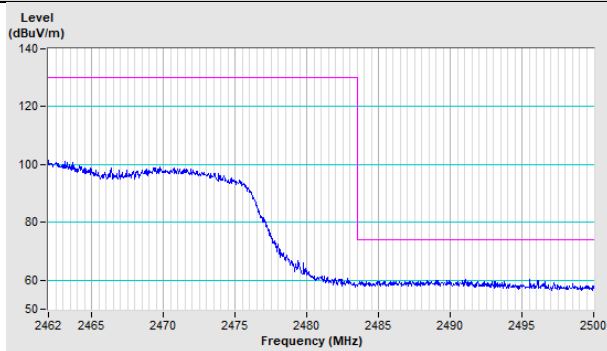


Vertical (Average)

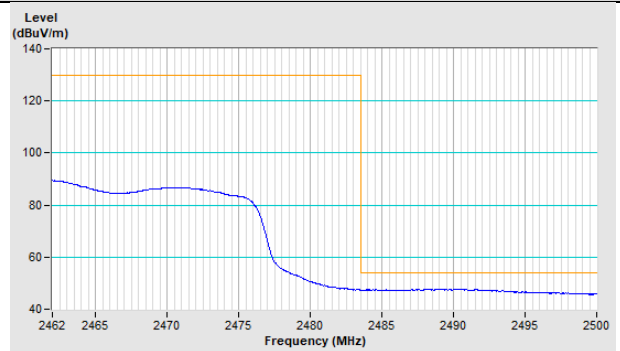


802.11ax (HE40) Channel 10

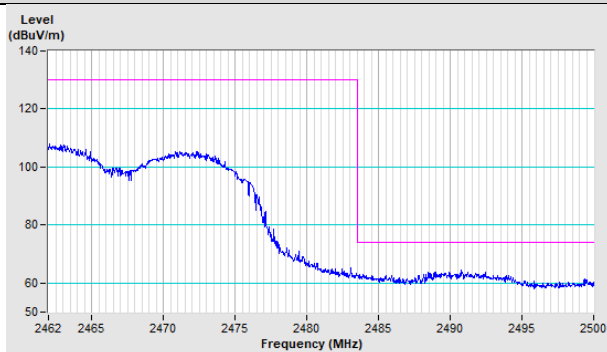
Horizontal (Peak)



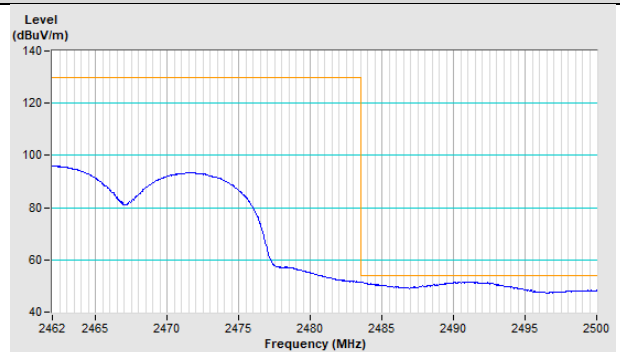
Horizontal (Average)



Vertical (Peak)

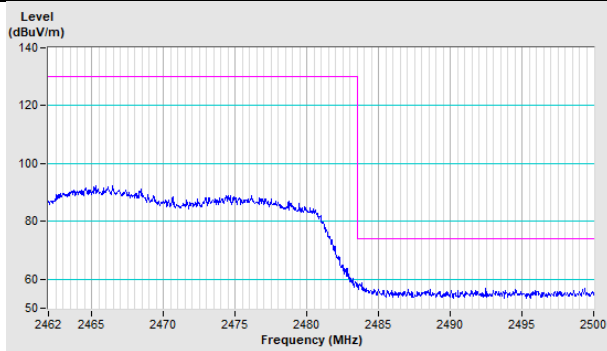


Vertical (Average)

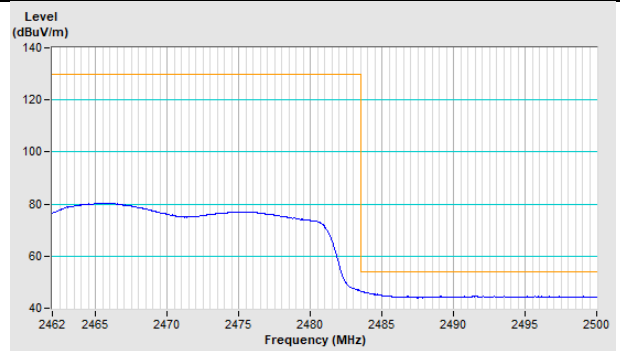


802.11ax (HE40) Channel 11

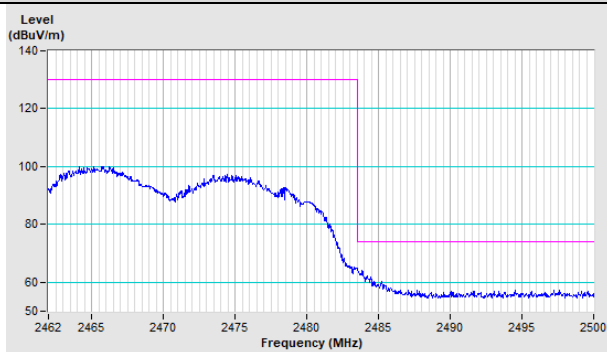
Horizontal (Peak)



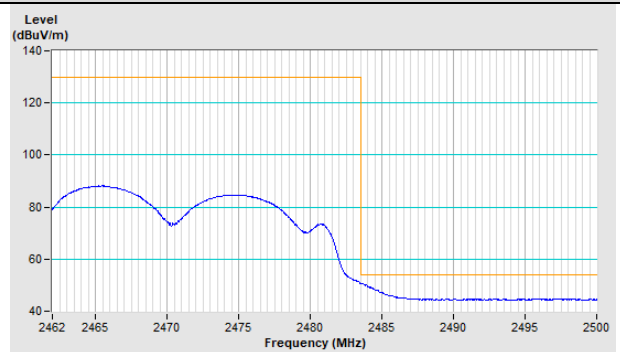
Horizontal (Average)



Vertical (Peak)

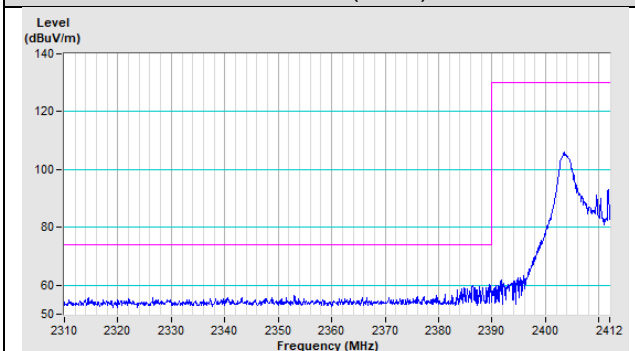


Vertical (Average)

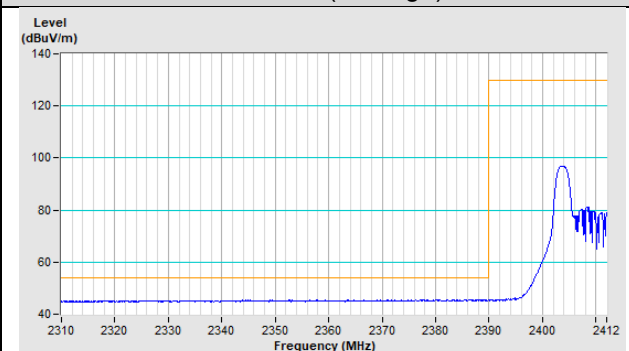


20MHz Preamble 802.11ax (RU26) Channel 1

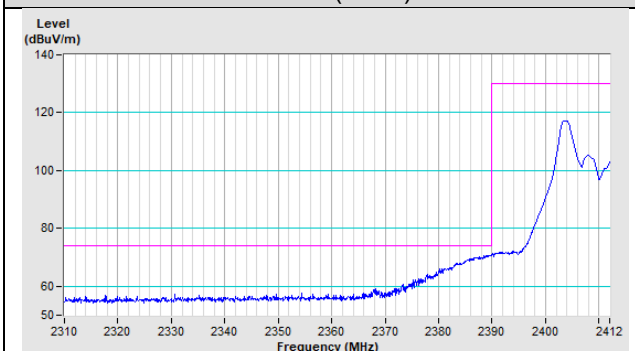
Horizontal (Peak)



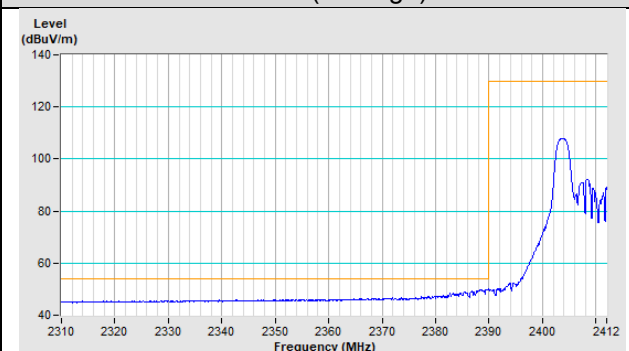
Horizontal (Average)



Vertical (Peak)

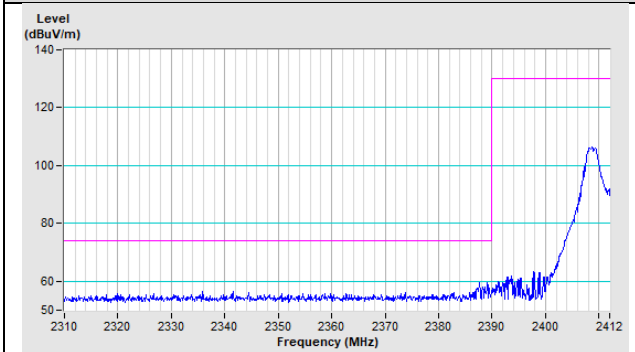


Vertical (Average)

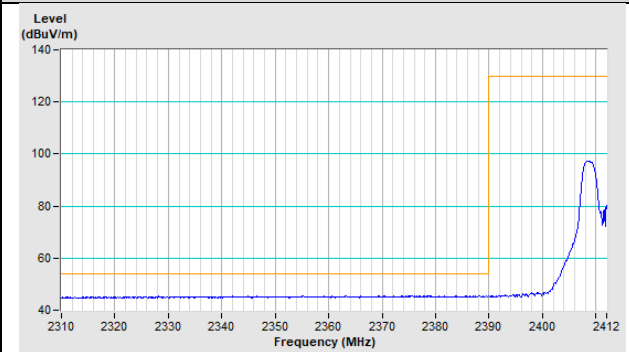


20MHz Preamble 802.11ax (RU26) Channel 2

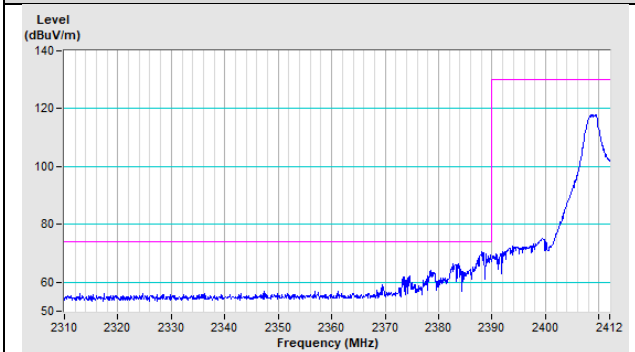
Horizontal (Peak)



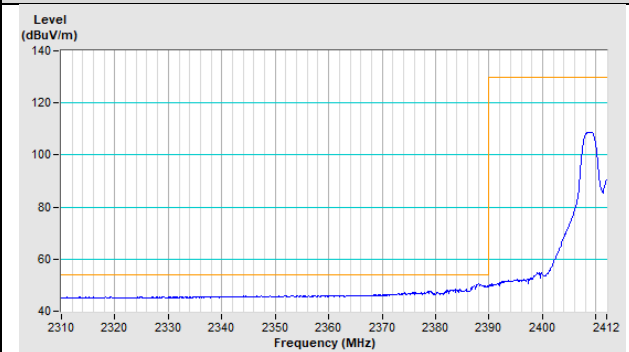
Horizontal (Average)



Vertical (Peak)

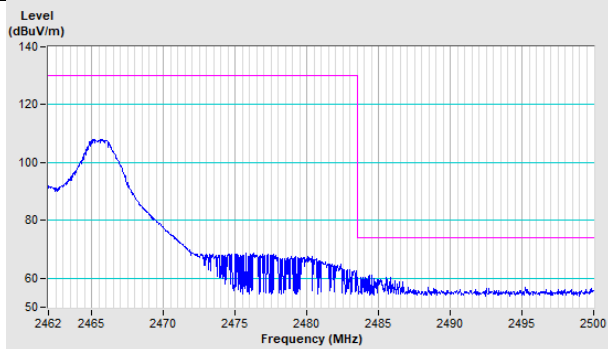


Vertical (Average)

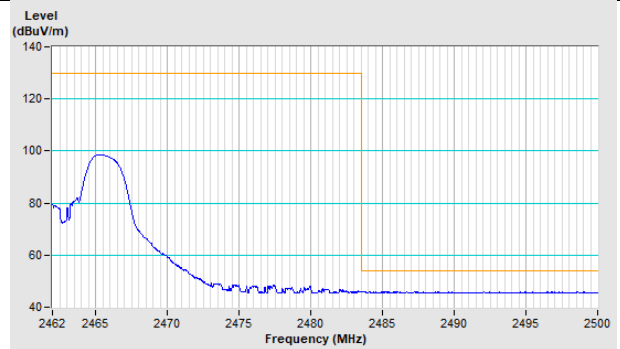


20MHz Preamble 802.11ax (RU26) Channel 10

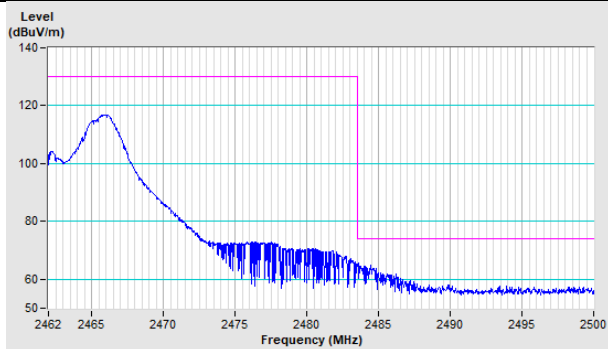
Horizontal (Peak)



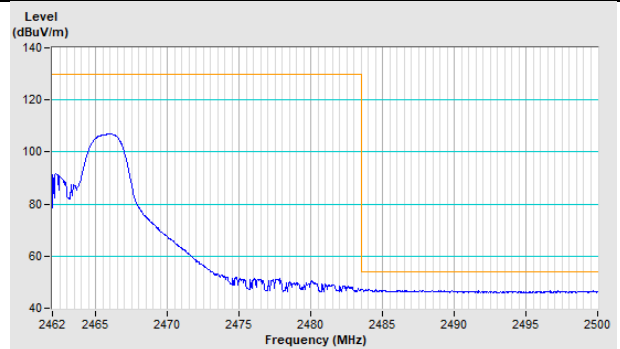
Horizontal (Average)



Vertical (Peak)

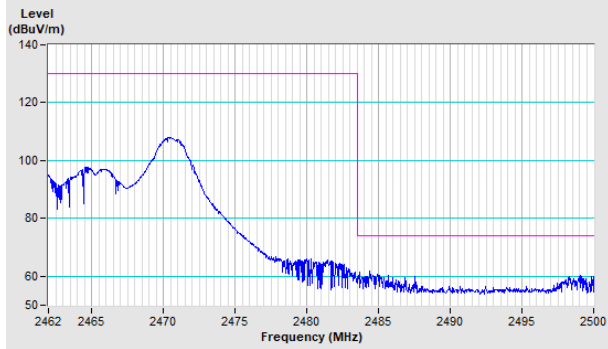


Vertical (Average)

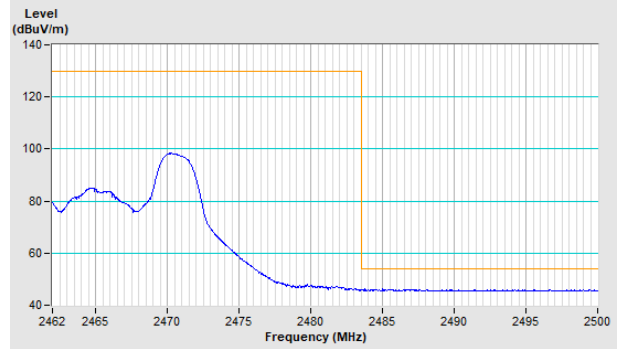


20MHz Preamble 802.11ax (RU26) Channel 11

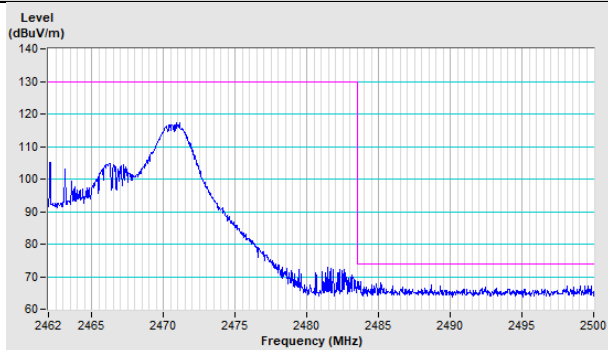
Horizontal (Peak)



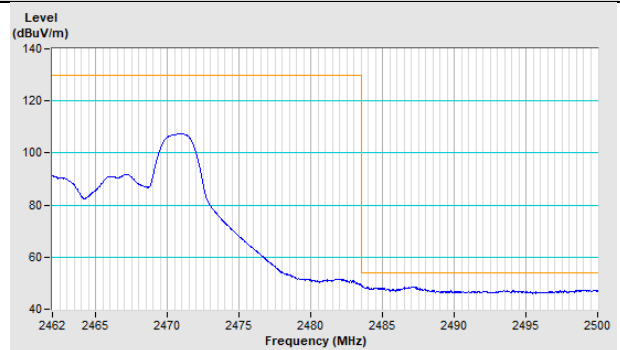
Horizontal (Average)



Vertical (Peak)

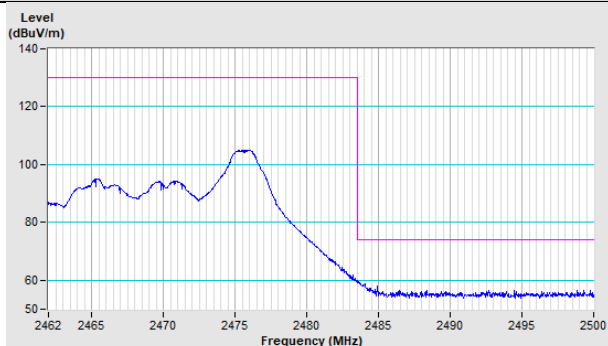


Vertical (Average)

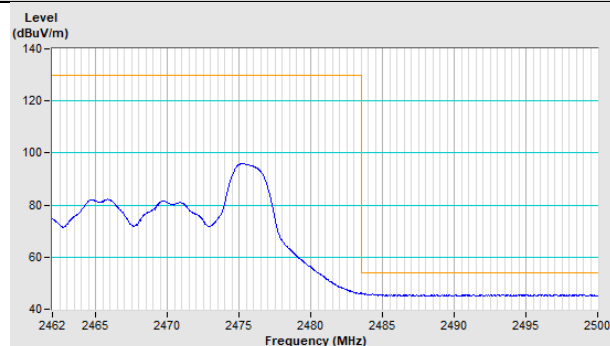


20MHz Preamble 802.11ax (RU26) Channel 12

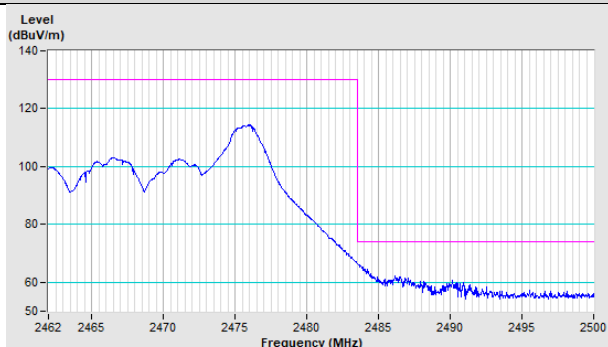
Horizontal (Peak)



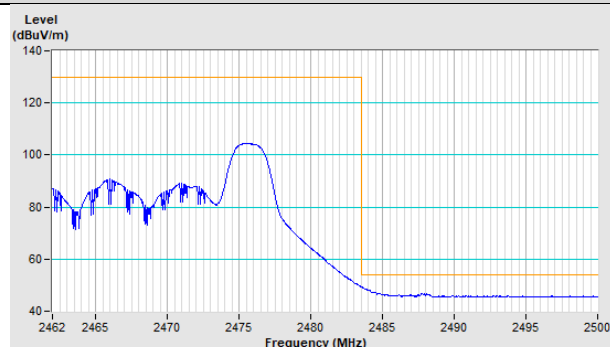
Horizontal (Average)



Vertical (Peak)

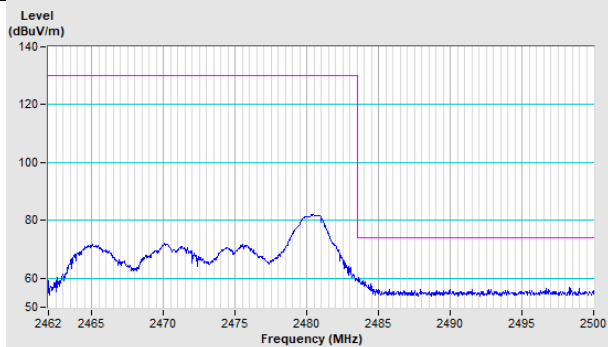


Vertical (Average)

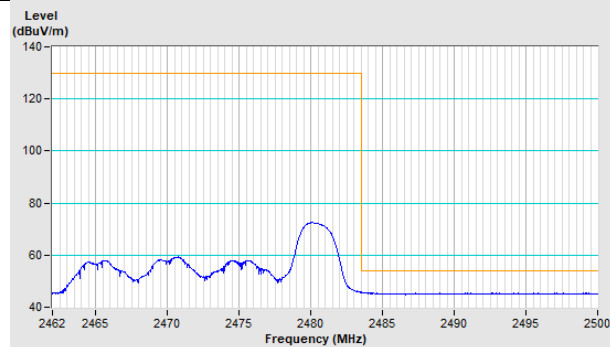


20MHz Preamble 802.11ax (RU26) Channel 13

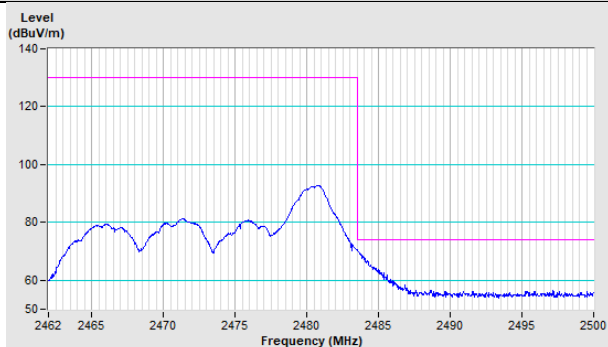
Horizontal (Peak)



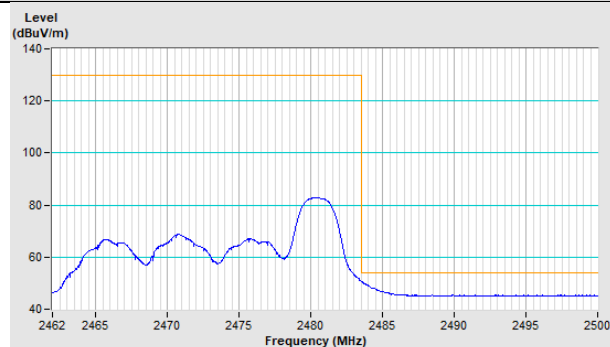
Horizontal (Average)



Vertical (Peak)

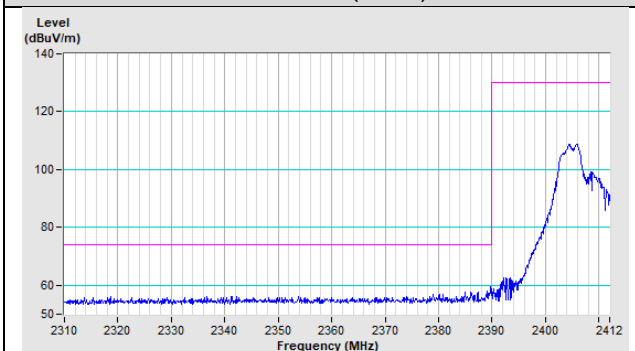


Vertical (Average)

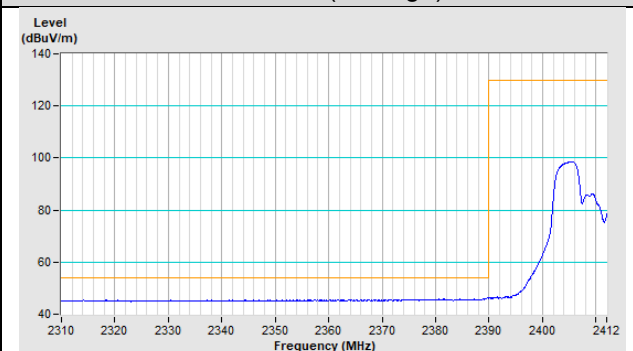


20MHz Preamble 802.11ax (RU52) Channel 1

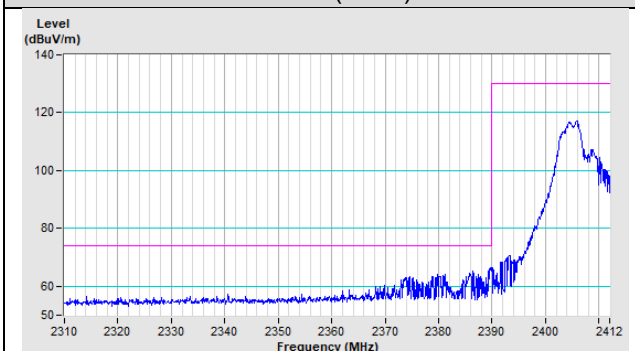
Horizontal (Peak)



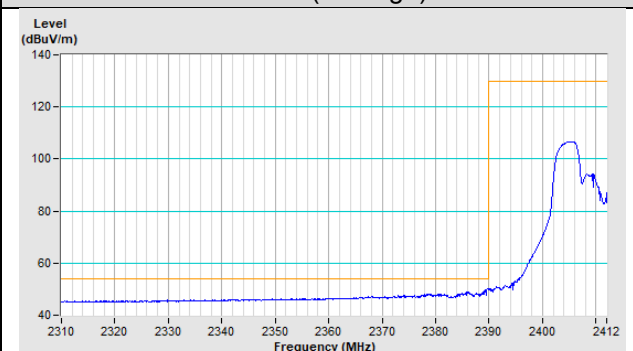
Horizontal (Average)



Vertical (Peak)

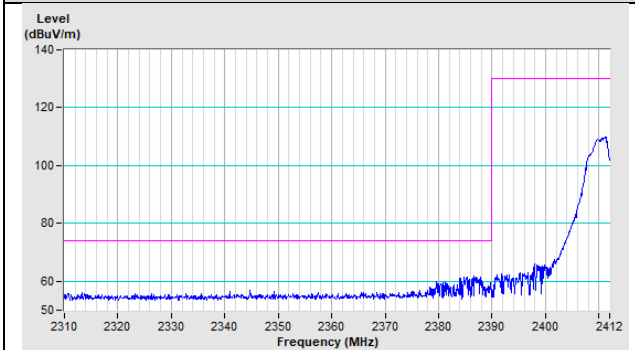


Vertical (Average)

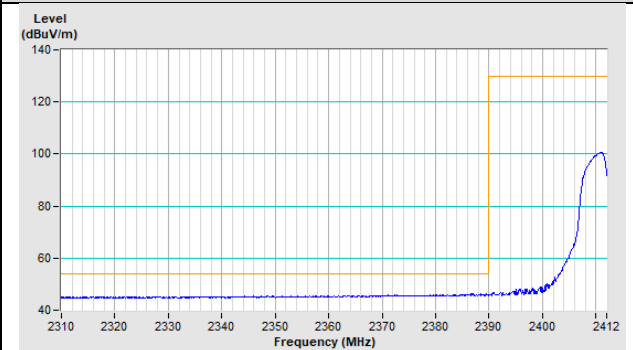


20MHz Preamble 802.11ax (RU52) Channel 2

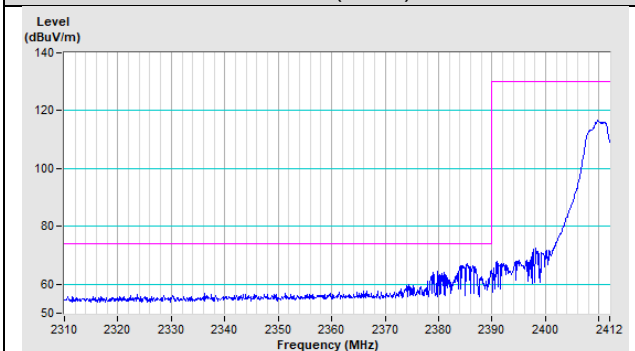
Horizontal (Peak)



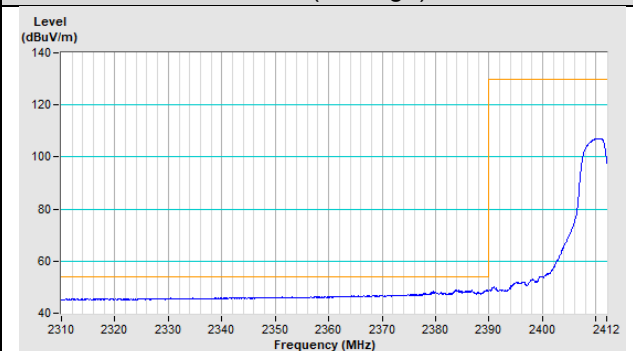
Horizontal (Average)



Vertical (Peak)

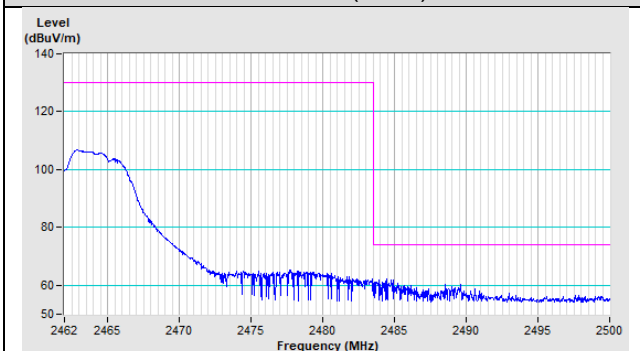


Vertical (Average)

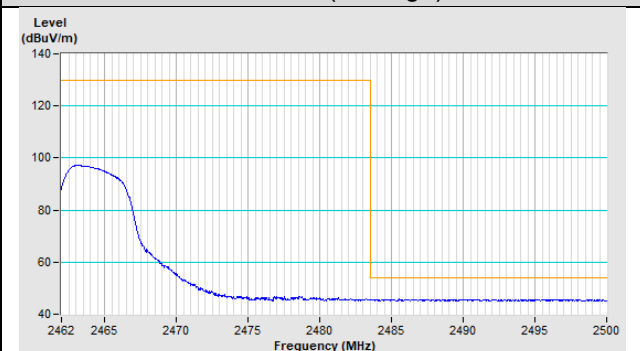


20MHz Preamble 802.11ax (RU52) Channel 10

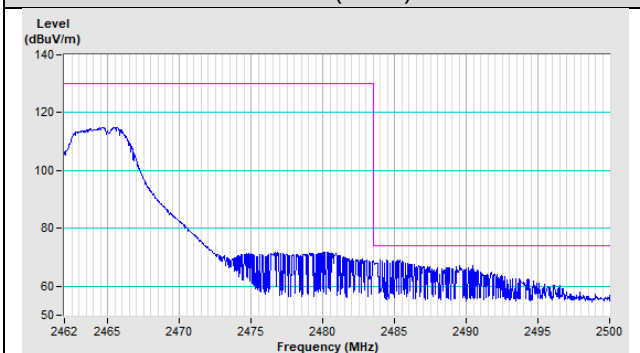
Horizontal (Peak)



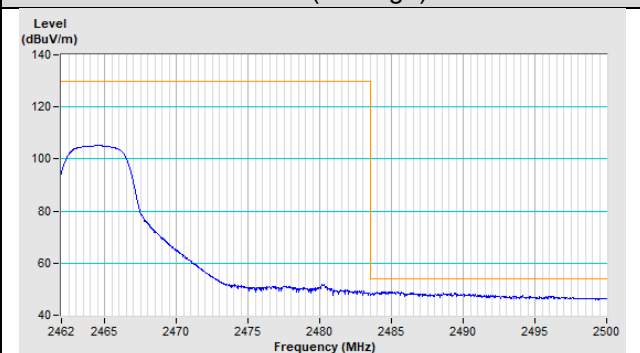
Horizontal (Average)



Vertical (Peak)

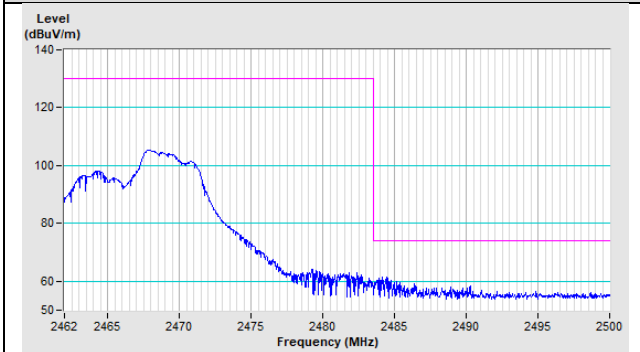


Vertical (Average)

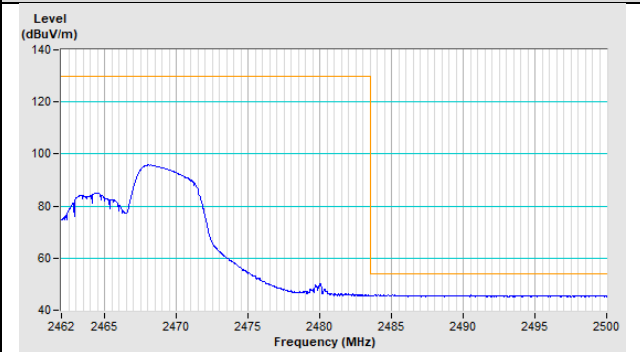


20MHz Preamble 802.11ax (RU52) Channel 11

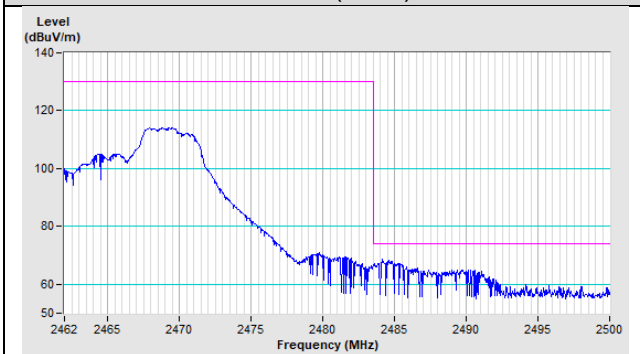
Horizontal (Peak)



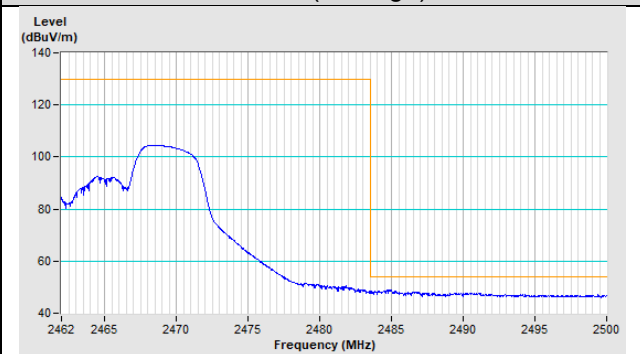
Horizontal (Average)



Vertical (Peak)

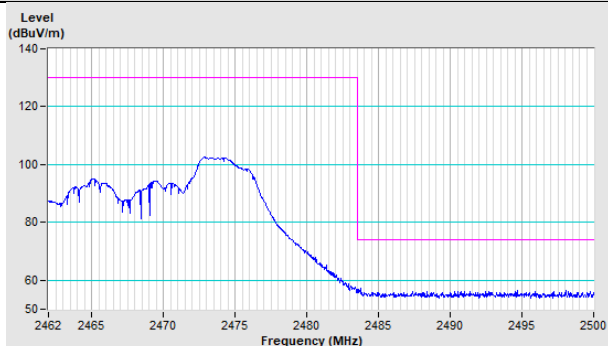


Vertical (Average)

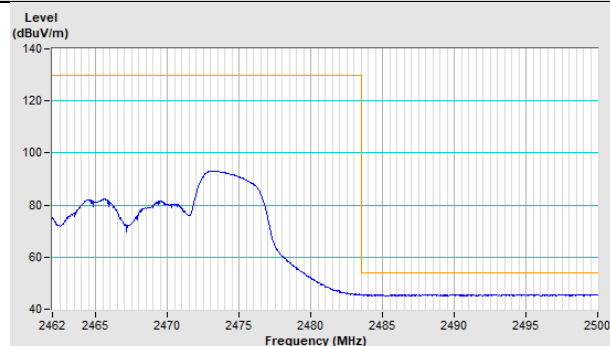


20MHz Preamble 802.11ax (RU52) Channel 12

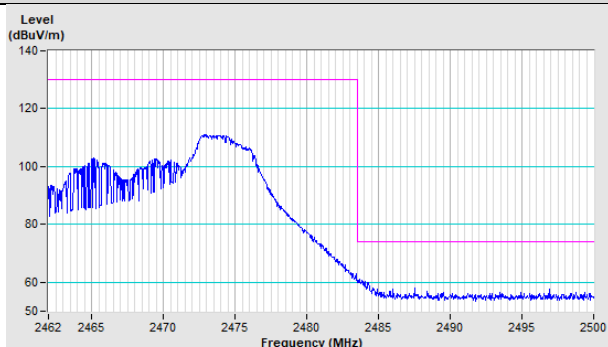
Horizontal (Peak)



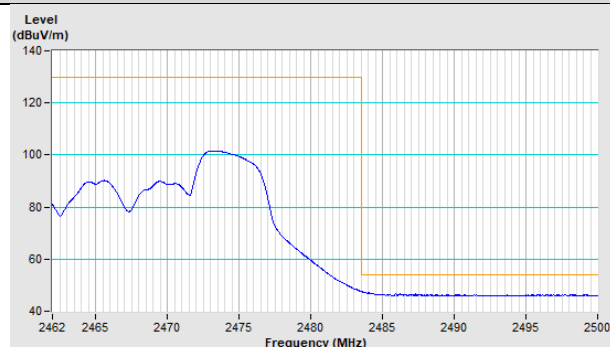
Horizontal (Average)



Vertical (Peak)

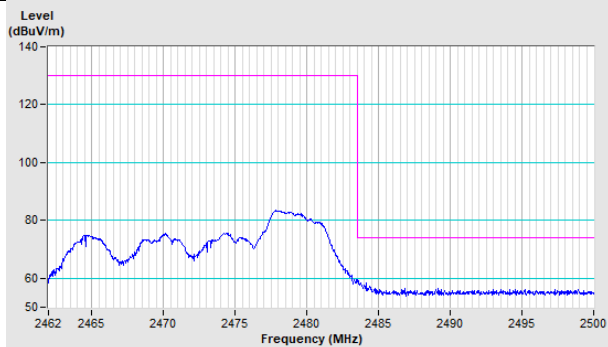


Vertical (Average)

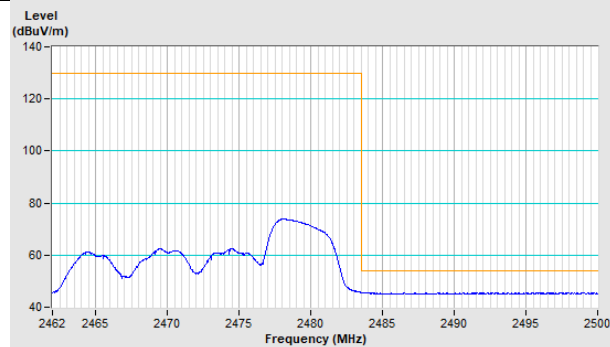


20MHz Preamble 802.11ax (RU52) Channel 13

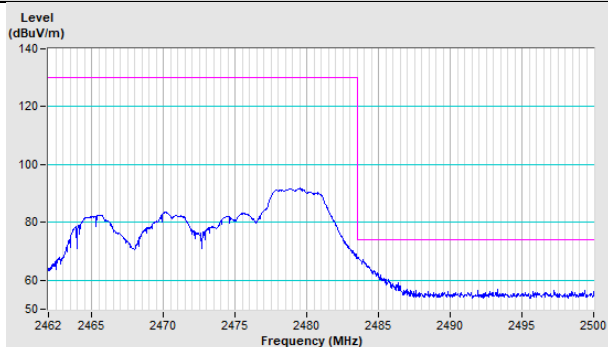
Horizontal (Peak)



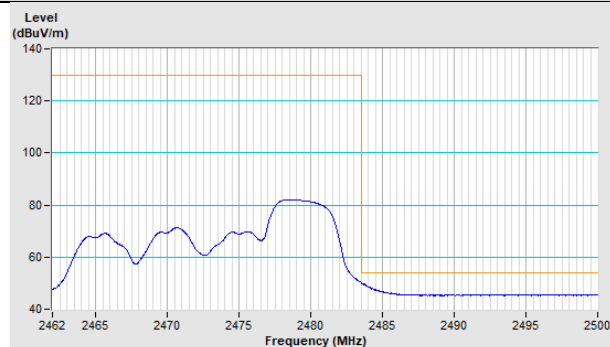
Horizontal (Average)



Vertical (Peak)

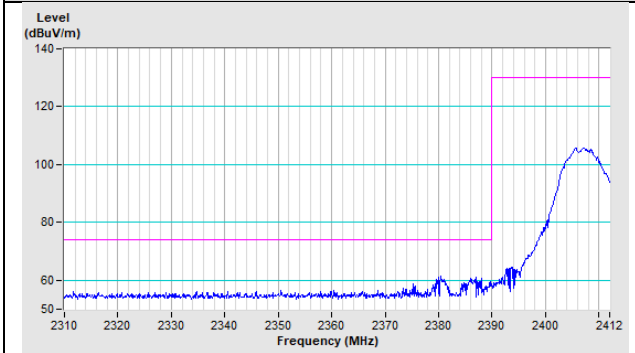


Vertical (Average)

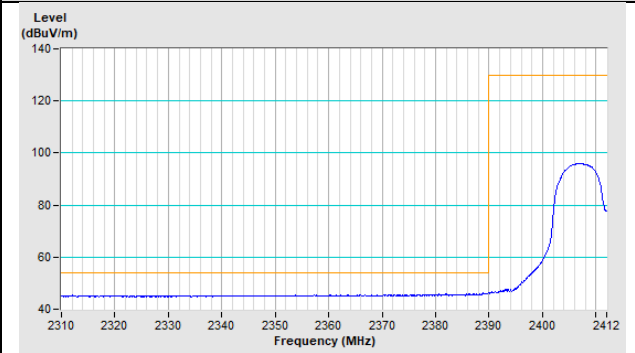


20MHz Preamble 802.11ax (RU106) Channel 1

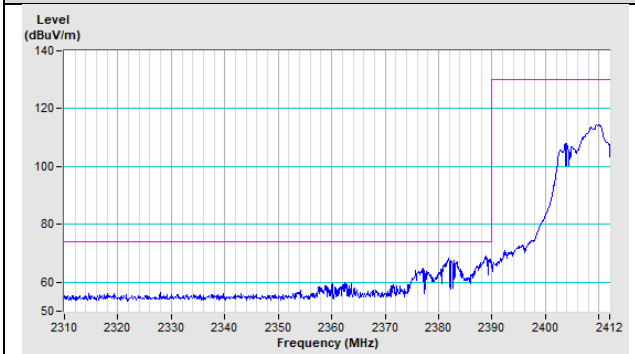
Horizontal (Peak)



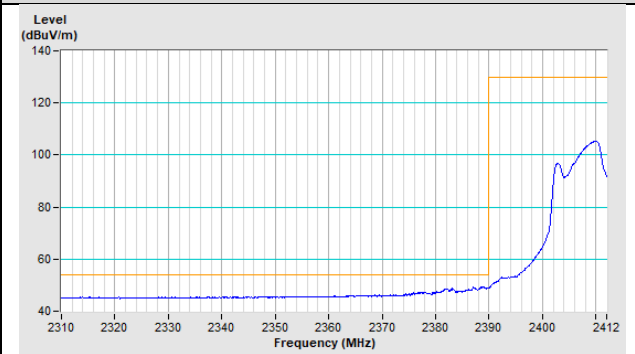
Horizontal (Average)



Vertical (Peak)

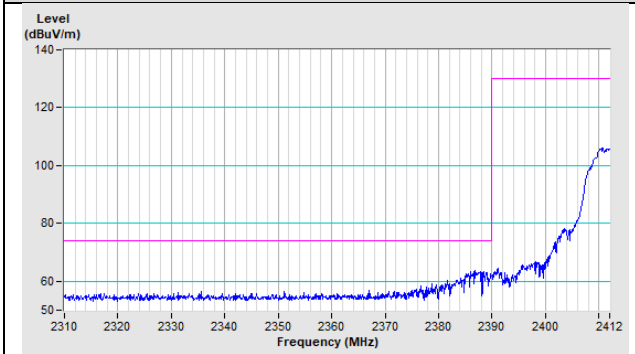


Vertical (Average)

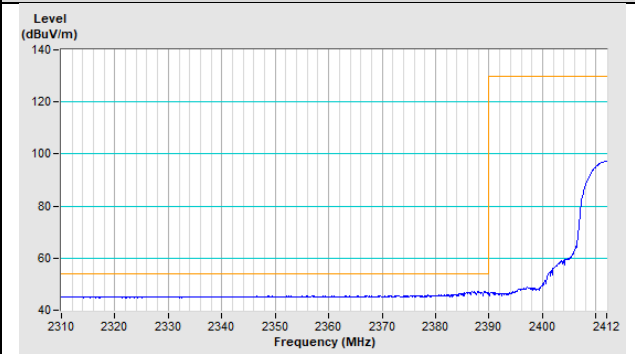


20MHz Preamble 802.11ax (RU106) Channel 2

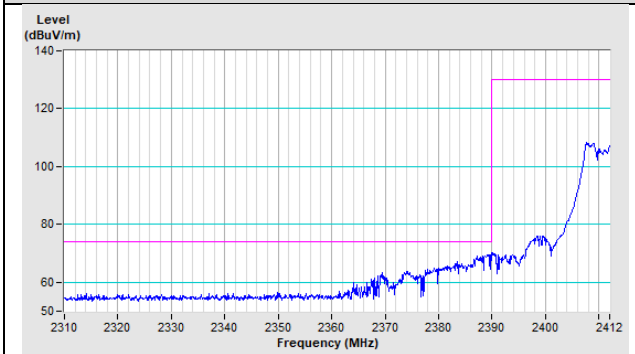
Horizontal (Peak)



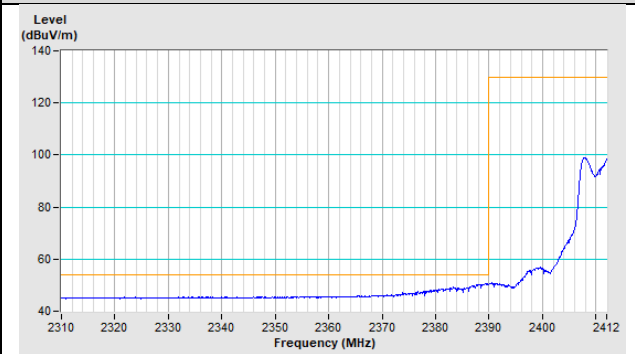
Horizontal (Average)



Vertical (Peak)

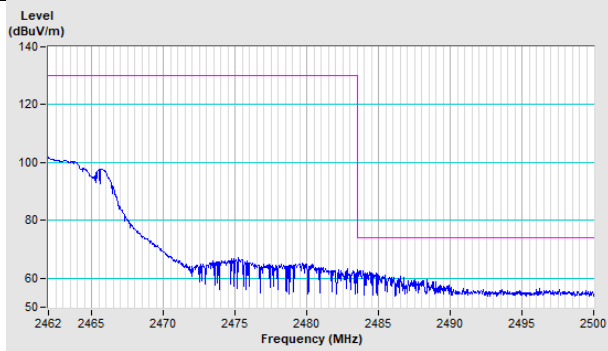


Vertical (Average)

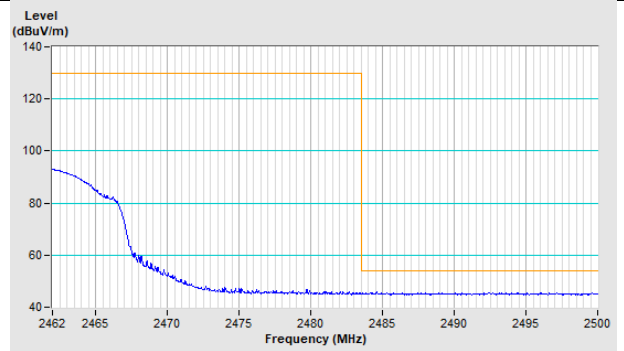


20MHz Preamble 802.11ax (RU106) Channel 10

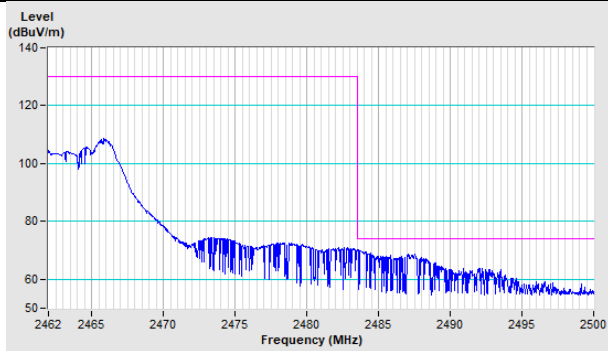
Horizontal (Peak)



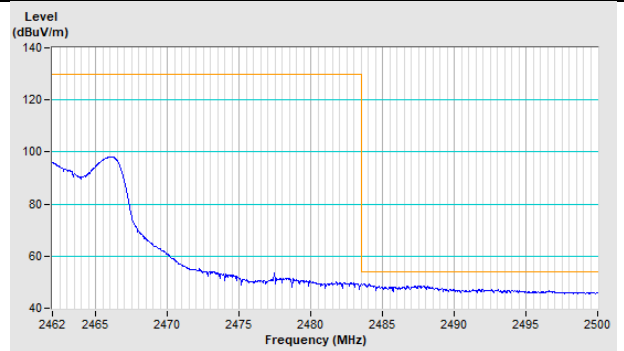
Horizontal (Average)



Vertical (Peak)

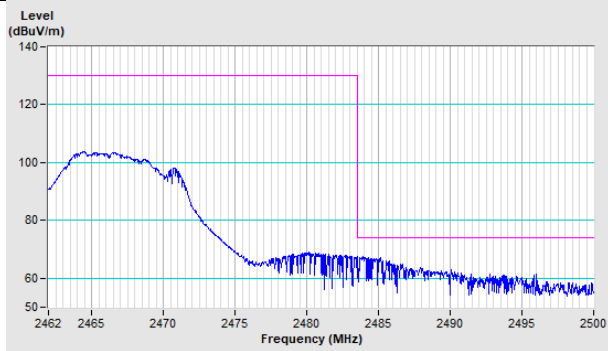


Vertical (Average)

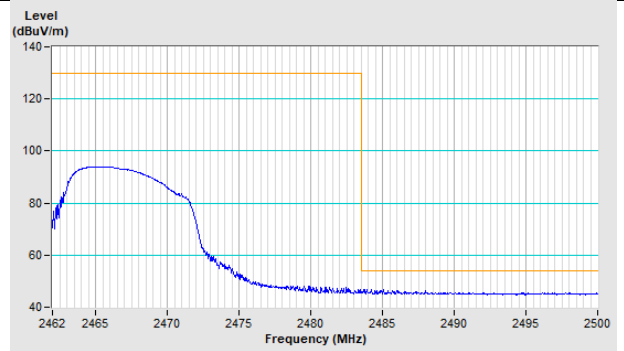


20MHz Preamble 802.11ax (RU106) Channel 11

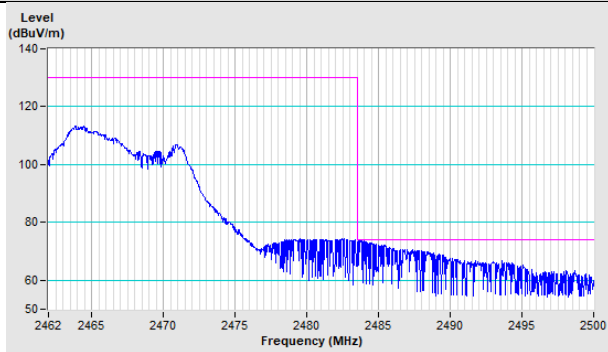
Horizontal (Peak)



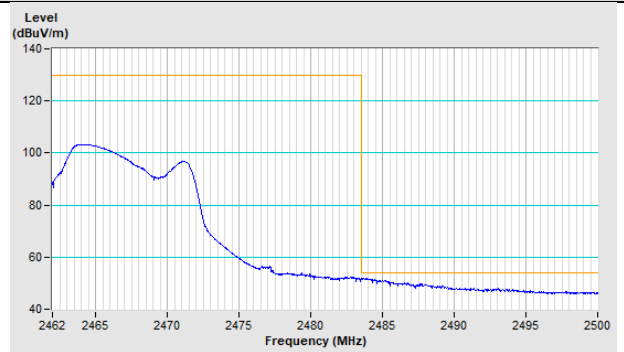
Horizontal (Average)



Vertical (Peak)

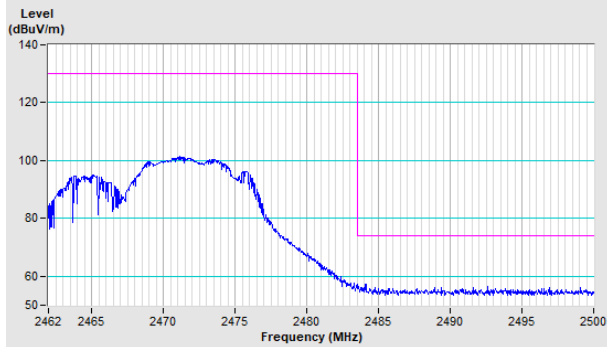


Vertical (Average)

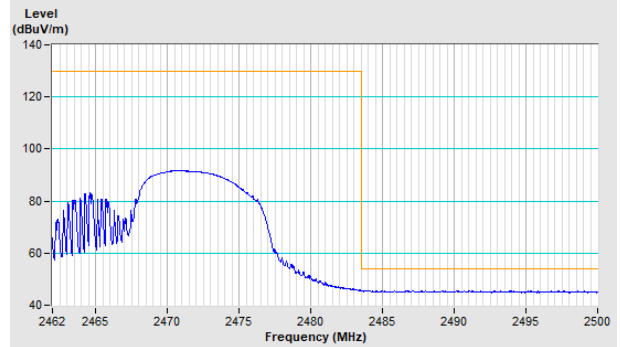


20MHz Preamble 802.11ax (RU106) Channel 12

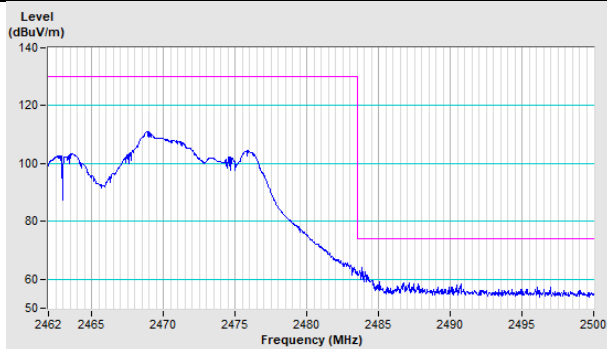
Horizontal (Peak)



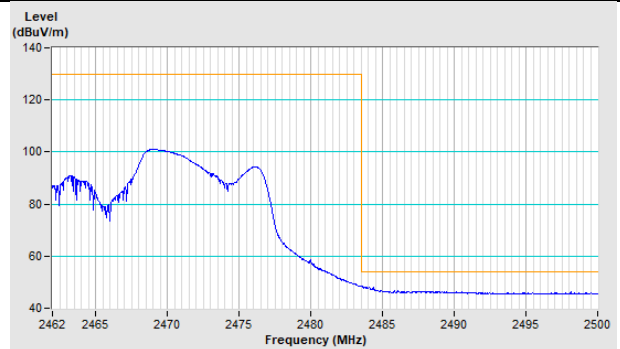
Horizontal (Average)



Vertical (Peak)

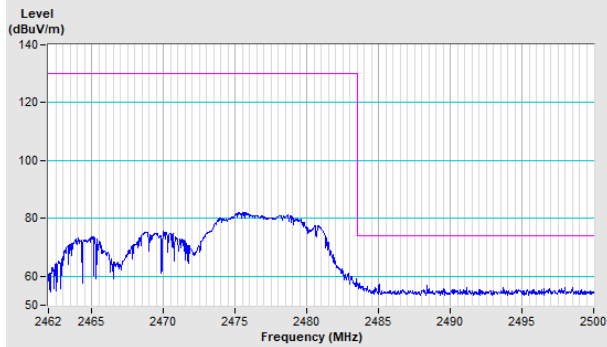


Vertical (Average)

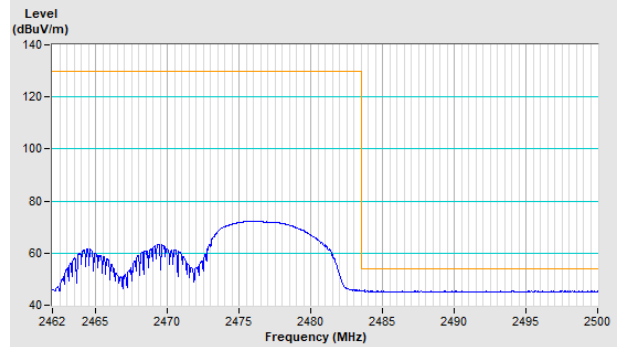


20MHz Preamble 802.11ax (RU106) Channel 13

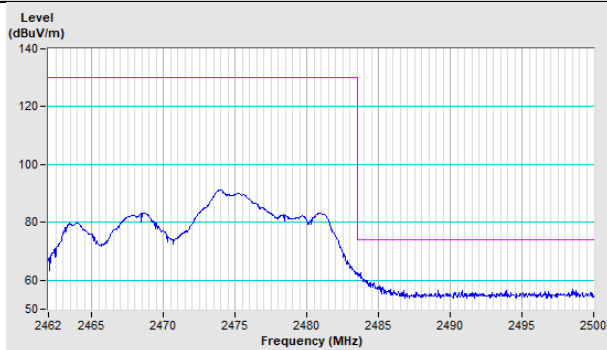
Horizontal (Peak)



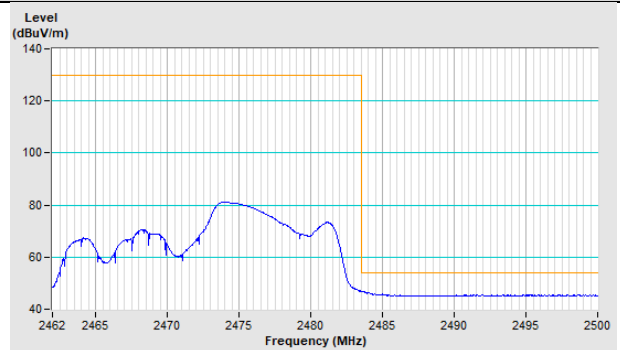
Horizontal (Average)



Vertical (Peak)



Vertical (Average)



5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

Appendix – 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 and approved according to ISO/IEC 17025.

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

Lin Kou EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-3-6668565

Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

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

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