

FCC Test Report

Report No.: RFBARR-WTW-P21060023

FCC ID: RAS-MT7922A12L

Test Model: MT7922A12L

Received Date: June 01, 2021

Test Date: June 01 to Aug. 11, 2021

Issued Date: Aug. 24, 2021

Applicant: MediaTek Inc.

Address: No. 1, Dusing 1st Rd., Hsinchu Science Park Hsinchu City 30078, Taiwan

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Hsin Chu Laboratory

Lab Address: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,
Taiwan

Test Location: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,
Taiwan

**FCC Registration /
Designation Number:** 723255 / TW2022



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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	7
3.2 Description of Test Modes	9
3.2.1 Test Mode Applicability and Tested Channel Detail	10
3.3 Duty Cycle of Test Signal	12
3.4 Description of Support Units	14
3.4.1 Configuration of System under Test	15
3.5 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	20
4.1.4 Deviation from Test Standard	20
4.1.5 Test Setup	21
4.1.6 EUT Operating Conditions	22
4.1.7 Test Results	23
4.2 Conducted Emission Measurement	54
4.2.1 Limits of Conducted Emission Measurement	54
4.2.2 Test Instruments	54
4.2.3 Test Procedures	55
4.2.4 Deviation from Test Standard	55
4.2.5 Test Setup	55
4.2.6 EUT Operating Conditions	55
4.2.7 Test Results	56
4.3 6dB Bandwidth Measurement	58
4.3.1 Limits of 6dB Bandwidth Measurement	58
4.3.2 Test Setup	58
4.3.3 Test Instruments	58
4.3.4 Test Procedure	58
4.3.5 Deviation from Test Standard	58
4.3.6 EUT Operating Conditions	58
4.3.7 Test Result	59
4.4 Conducted Output Power Measurement	62
4.4.1 Limits of Conducted Output Power Measurement	62
4.4.2 Test Setup	62
4.4.3 Test Instruments	62
4.4.4 Test Procedures	62
4.4.5 Deviation from Test Standard	62
4.4.6 EUT Operating Conditions	62
4.4.7 Test Results	63
4.5 Power Spectral Density Measurement	67
4.5.1 Limits of Power Spectral Density Measurement	67
4.5.2 Test Setup	67
4.5.3 Test Instruments	67
4.5.4 Test Procedure	67
4.5.5 Deviation from Test Standard	67
4.5.6 EUT Operating Condition	67

4.5.7 Test Results	68
4.6 Conducted Out of Band Emission Measurement	71
4.6.1 Limits of Conducted Out of Band Emission Measurement	71
4.6.2 Test Setup	71
4.6.3 Test Instruments	71
4.6.4 Test Procedure	71
4.6.5 Deviation from Test Standard	71
4.6.6 EUT Operating Condition	71
4.6.7 Test Results	71
5 Pictures of Test Arrangements	99
Annex A - Band-Edge Measurement	100
Appendix – Information of the Testing Laboratories	112

Release Control Record

Issue No.	Description	Date Issued
RFBARR-WTW-P21060023	Original release.	Aug. 24, 2021

1 Certificate of Conformity

Product: 2TX 11ax (WiFi6E) BW160 + BT/BLE Combo Card

Brand: MediaTek

Test Model: MT7922A12L

Sample Status: Engineering sample

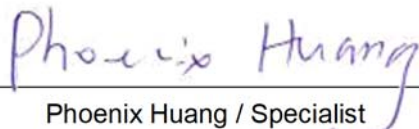
Applicant: MediaTek Inc.

Test Date: June 01 to Aug. 11, 2021

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 EMC characteristics under the conditions specified in this report.

Prepared by :


Phoenix Huang / Specialist

Date:

Aug. 24, 2021

Approved by :



Clark Lin / Technical Manager

Date:

Aug. 24, 2021

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 -15.38 dB at 0.18937 MHz.
15.205 / 15.209 / 15.247(d)	Radiated Emissions and Band Edge Measurement	Pass	Meet the requirement of limit. Minimum passing margin is -0.1 dB at 2390.00 MHz, 2483.50 MHz and 7311.00 MHz.
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) not a standard connector.

Note:

- For 2.4 GHz band compliance with rule 15.247(d) of the band-edge items, the test plots were recorded in Annex A.
- 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	1.9 dB
Conducted emissions	-	2.5 dB
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	3.1 dB
	30MHz ~ 1GHz	5.5 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	5.1 dB
	18GHz ~ 40GHz	5.3 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	2TX 11ax (WiFi6E) BW160 + BT/BLE Combo Card
Brand	MediaTek
Test Model	MT7922A12L
Status of EUT	Engineering sample
Power Supply Rating	3.3 Vdc from host equipment
Modulation Type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in VHT mode 1024QAM for OFDMA in 11ax mode only
Modulation Technology	DSSS, OFDM, OFDMA
Transfer Rate	802.11b: up to 11 Mbps 802.11g: up to 54 Mbps 802.11n: up to 300 Mbps VHT20/40: up to 400 Mbps 802.11ax: up to 573.5 Mbps
Operating Frequency	2.412 ~ 2.472 GHz
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	771.204 mW
Antenna Type	Refer to Note
Antenna Connector	Refer to Note
Accessory Device	NA
Data Cable Supplied	NA

Note:

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

Condition	Technology	
1	WLAN (5GHz)	Bluetooth
2	WLAN (6GHz)	Bluetooth

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

3. The antennas provided to the EUT, please refer to the following table:

Antenna Set	RF Chain No.	Brand	Model	Antenna Net Gain (dBi)	Frequency Range (GHz)	Antenna Type	Connector Type	Cable Length (mm)
1	Chain0	PSA	RFMTA340718EMLB302	3.18 4.92	2.4~2.4835 5.15~5.85	PIFA	i-pex(MHF)	200
	Chain1	PSA	RFMTA340718EMLB302	3.18 4.92	2.4~2.4835 5.15~5.85	PIFA	i-pex(MHF)	200
2	Chain0	PSA	RFMTA311020EMMB301	1.71 4.82 4.76 4.29 4.61 4.09	2.4~2.4835 5.15~5.85 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	PIFA	i-pex(MHF)	200
	Chain1	PSA	RFMTA311020EMMB301	1.71 4.82 4.76 4.29 4.61 4.09	2.4~2.4835 5.15~5.85 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	PIFA	i-pex(MHF)	200

Note: Max. gain was selected for the final test.

4. The EUT incorporates a MIMO function:

2.4GHz Band		
MODULATION MODE	TX & RX CONFIGURATION	
802.11b	2TX	2RX
802.11g	2TX	2RX
802.11n (HT20)	2TX	2RX
802.11n (HT40)	2TX	2RX
VHT20	2TX	2RX
VHT40	2TX	2RX
802.11ax (HE20)	2TX	2RX
802.11ax (HE40)	2TX	2RX
802.11ax (RU26/52/106/242/484)	2TX	2RX

Note:

1. 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/VHT mode is the same as the 802.11ax or more lower than it and investigated worst case to representative mode in test report.
2. For Partial RU, after pre-tested, only the worse cases were chosen for final test and presented in the test report. (Final test mode refer section 3.2.1)

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

6. The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

3.2 Description of Test Modes

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

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

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

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

3.2.1 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: The EUT's PIFA antenna had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Z-place**.

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, RU configurations 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, 6, 11, 12, 13	OFDM	BPSK	6Mb/s	-
802.11ax (HE20)	1 to 13	1, 6, 11, 12, 13	OFDMA	BPSK	MCS0	-
802.11ax (HE40)	3 to 11	3, 6, 9, 10, 11	OFDMA	BPSK	MCS0	-
802.11ax (RU26)	1 to 13	1, 11, 12, 13	OFDMA	BPSK	MCS0	26/0, 26/8, 26/8, 26/8
802.11ax (RU52)	1 to 13	6	OFDMA	BPSK	MCS0	52/37
802.11ax (RU106)	1 to 13	1, 11, 12, 13	OFDMA	BPSK	MCS0	106/53, 106/54, 106/54, 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, RU configurations 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
802.11b	1 to 13	1	DSSS	DBPSK	1Mb/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, RU configurations 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
802.11b	1 to 13	1	DSSS	DBPSK	1Mb/s

Antenna Port Conducted 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, RU configurations 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, 6, 11, 12, 13	OFDM	BPSK	6Mb/s	-
VHT20 (output power only)	1 to 13	1, 6, 11, 12, 13	OFDM	BPSK	MCS0	-
VHT40 (output power only)	3 to 11	3, 6, 9, 10, 11	OFDM	BPSK	MCS0	-
802.11ax (HE20)	1 to 13	1, 6, 11, 12, 13	OFDMA	BPSK	MCS0	-
802.11ax (HE40)	3 to 11	3, 6, 9, 10, 11	OFDMA	BPSK	MCS0	-
802.11ax (RU26)	1 to 13	1, 11, 12, 13	OFDMA	BPSK	MCS0	26/0, 26/8, 26/8, 26/8
802.11ax (RU52)	1 to 13	6	OFDMA	BPSK	MCS0	52/37
802.11ax (RU106)	1 to 13	1, 11, 12, 13	OFDMA	BPSK	MCS0	106/53, 106/54, 106/54, 106/54

Test Condition:

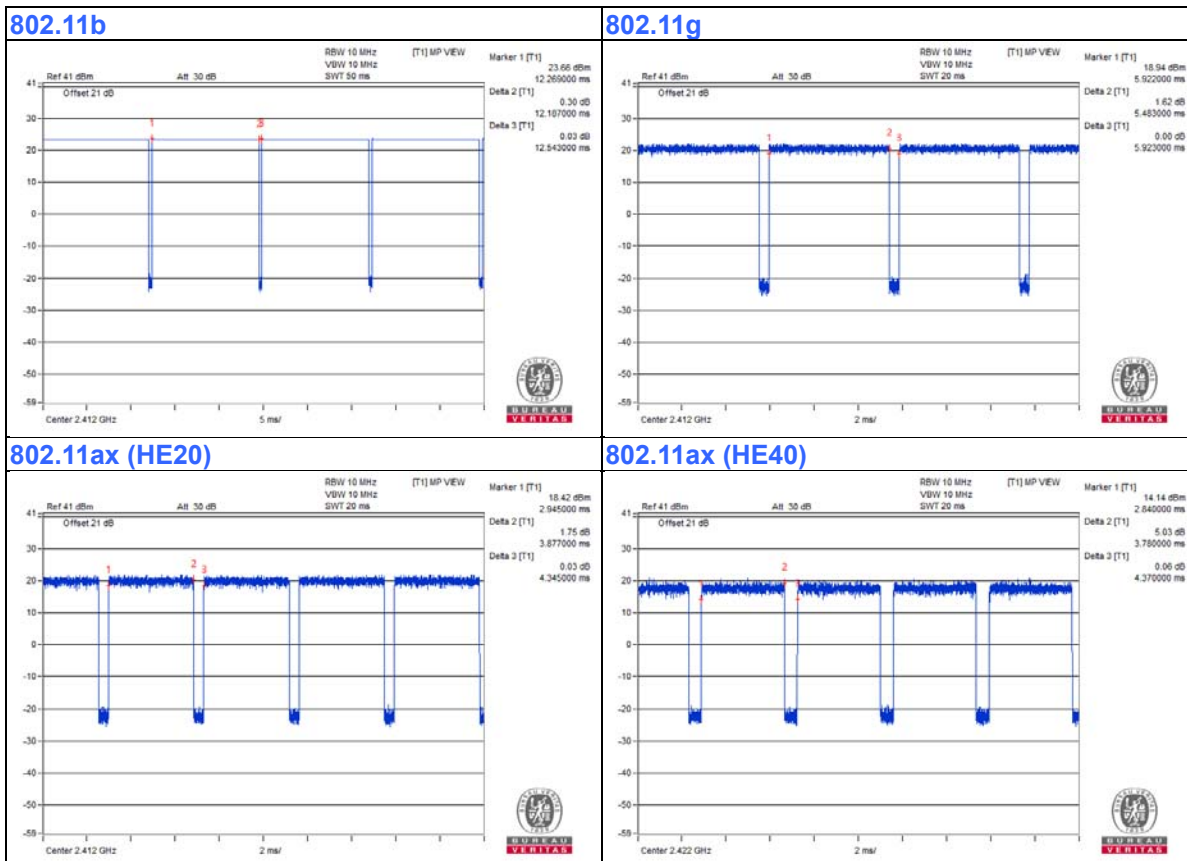
Applicable to	Environmental Conditions	Input Power (System)	Tested By
RE≥1G	25deg. C, 65~75%RH	120Vac, 60Hz	Tom Yang, Carter Lin
RE<1G	25deg. C, 66%RH	120Vac, 60Hz	Tom Yang
PLC	25deg. C, 66%RH	120Vac, 60Hz	Tom Yang
APCM	25deg. C, 60%RH	120Vac, 60Hz	Kevin.Ko

3.3 Duty Cycle of Test Signal

Duty cycle of test signal is < 98%, duty factor shall be considered.

For Legacy mode:

802.11b: Duty cycle = 12.187 ms/12.543 ms = 0.972, Duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.13 \text{ dB}$
 802.11g: Duty cycle = 5.483 ms/5.923 ms = 0.926, Duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.34 \text{ dB}$
 802.11ax (HE20): Duty cycle = 3.877 ms/4.345 ms = 0.892, Duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.49 \text{ dB}$
 802.11ax (HE40): Duty cycle = 3.78 ms/4.37 ms = 0.865, Duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.63 \text{ dB}$



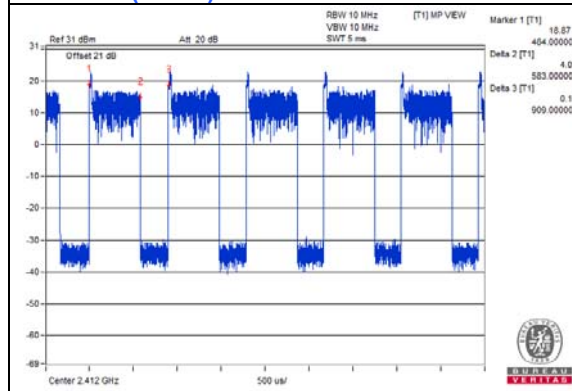
For RU mode:

802.11ax (RU26): Duty cycle = 0.583 ms/0.909 ms = 0.641, Duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 1.93 \text{ dB}$

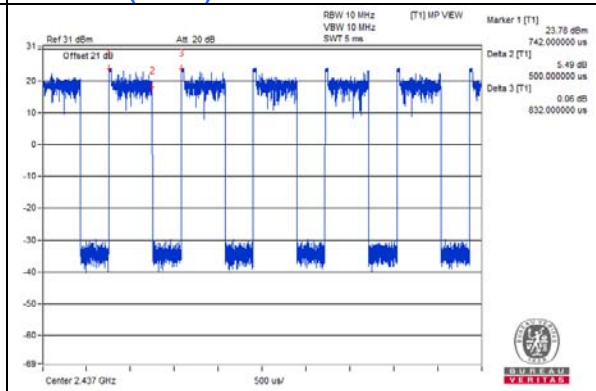
802.11ax (RU52): Duty cycle = 0.5 ms/0.832 ms = 0.601, Duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 2.21 \text{ dB}$

802.11ax (RU106): Duty cycle = 0.435 ms/0.776 ms = 0.561, Duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 2.51 \text{ dB}$

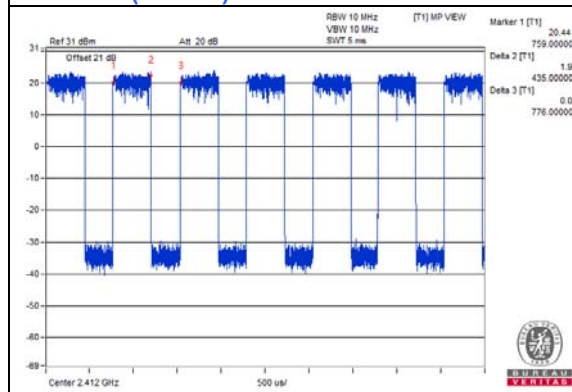
802.11ax (RU26)



802.11ax (RU52)



802.11ax (RU106)



3.4 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.

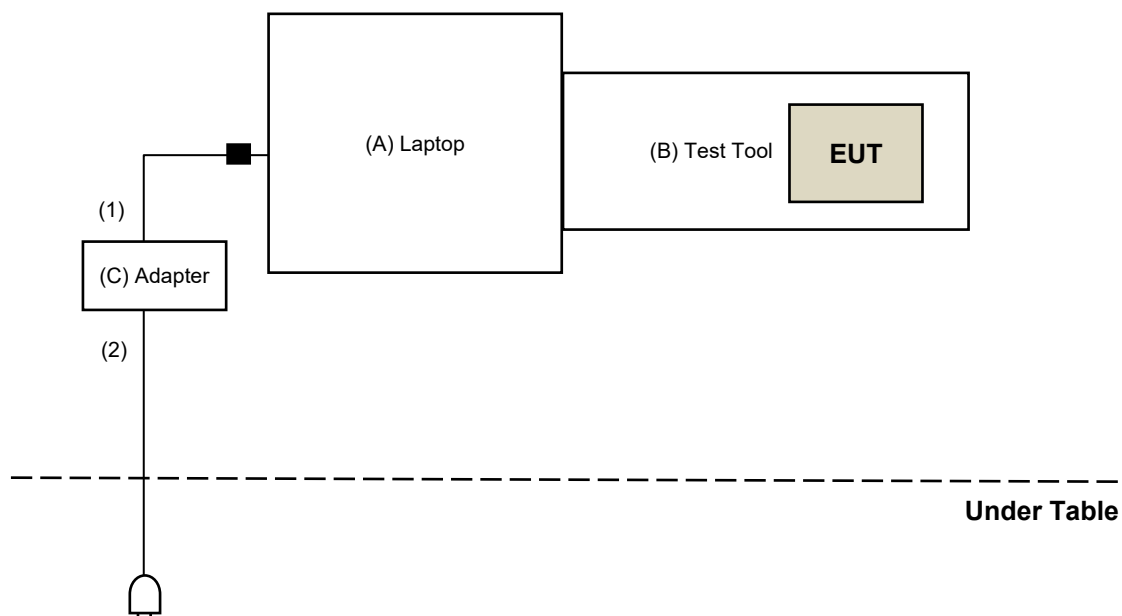
ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Laptop	DELL	E5430	HYV4VY1	DoC	Provided by Lab
B.	Test Tool	MediaTek	MTK1849	NA	NA	Supplied by client
C.	Adapter	Dell	LA65NS2-01	NA	NA	Provided by Lab

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	DC Cable	1	1.8	No	1	Provided by Lab
2.	AC Cable	1	1.8	No	0	Provided by Lab

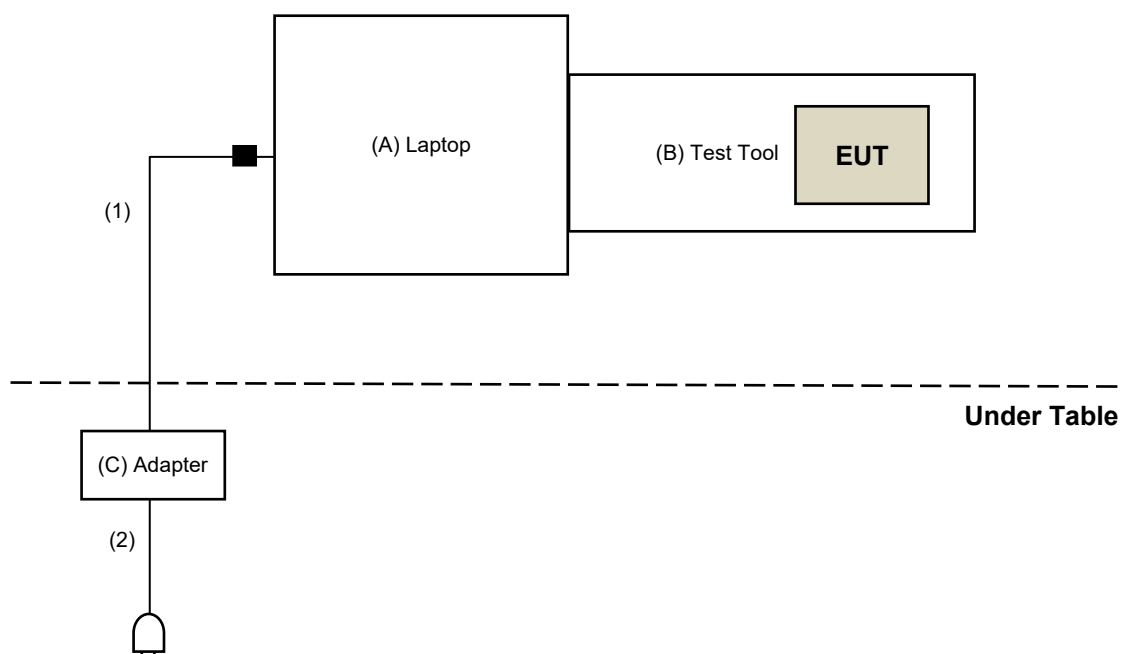
Note: The core(s) is(are) originally attached to the cable(s).

3.4.1 Configuration of System under Test

For AC Power Conducted Emission test:



For Radiated Emission test:



3.5 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

For Radiated Emission test:

Description & Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Test Receiver Agilent	N9038A	MY51210202	Dec. 1, 2020	Nov. 30, 2021
Software	ADT_Radiated_V8.7.08	NA	NA	NA
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	NA	NA
Pre_Amplifier EMCI	EMC001340	980142	May 24, 2021	May 23, 2022
LOOP ANTENNA Electro-Metrics	EM-6879	264	Mar. 5, 2021	Mar. 4, 2022
RF Coaxial Cable JYEBO	5D-FB	LOOPCAB-001	Jan. 7, 2021	Jan. 6, 2022
RF Coaxial Cable JYEBO	5D-FB	LOOPCAB-002	Jan. 7, 2021	Jan. 6, 2022
Pre_Amplifier EMCI	EMC330N	980701	Mar. 10, 2021	Mar. 9, 2022
Trilog Broadband Antenna Schwarzbeck	VULB 9168	9168-406	Nov. 6, 2020	Nov. 5, 2021
RF Coaxial Cable COMMATE/PEWC	8D	966-4-1	Mar. 17, 2021	Mar. 16, 2022
RF Coaxial Cable COMMATE/PEWC	8D	966-4-2	Mar. 17, 2021	Mar. 16, 2022
RF Coaxial Cable COMMATE/PEWC	8D	966-4-3	Mar. 17, 2021	Mar. 16, 2022
Fixed attenuator Mini-Circuits	UNAT-5+	PAD-ATT5-03	Jan. 11, 2021	Jan. 10, 2022
Horn Antenna SCHWARZBECK	BBHA 9120D	9120D-783	Nov. 22, 2020	Nov. 21, 2021
Pre_Amplifier EMCI	EMC 12630 SE	980638	Apr. 7, 2021	Apr. 6, 2022
RF Cable-Frequency Range : 1-26.5GHz EMCI	EMC104-SM-SM-1200	160922	Dec. 25, 2020	Dec. 24, 2021
RF Coaxial Cable EMCI	EMC104-SM-SM-2000	180502	Apr. 26, 2021	Apr. 25, 2022
RF Coaxial Cable EMCI	EMC104-SM-SM-6000	180418	Apr. 26, 2021	Apr. 25, 2022
Pre_Amplifier EMCI	EMC184045SE	980387	Jan. 11, 2021	Jan. 10, 2022
SHF-EHF Horn Schwarzbeck	BBHA 9170	BBHA9170519	Nov. 22, 2020	Nov. 21, 2021
RF Cable-Frequency range: 1-40GHz EMCI	EMC102-KM-KM-1200	160924	Jan. 11, 2021	Jan. 10, 2022
RF cable (40GHz) EMCI	EMC-KM-KM-4000	200214	Mar. 10, 2021	Mar. 9, 2022

Note: 1. The test was performed in 966 Chamber No. 4.

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

3. Tested Date: June 01 to Aug. 07, 2021

For other test items:

Description & Manufacturer	Model no.	Serial No.	Calibrated Date	Calibrated Until
Spectrum Analyzer R&S	FSV40	101516	Mar. 8, 2021	Mar. 7, 2022
Power Meter Anritsu	ML2495A	1529002	June 21, 2021	June 20, 2022
Pulse Power Sensor Anritsu	MA2411B	1339443	May 31, 2021	May 30, 2022
Attenuator WOKEN	MDCS18N-10	MDCS18N-10-01	Apr. 13, 2021	Apr. 12, 2022
Software	ADT_RF Test Software V6.6.5.4	NA	NA	NA

- Note: 1. The test was performed in Oven room 2.
 2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 3. Tested Date: Aug. 09 to 11, 2021

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 detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

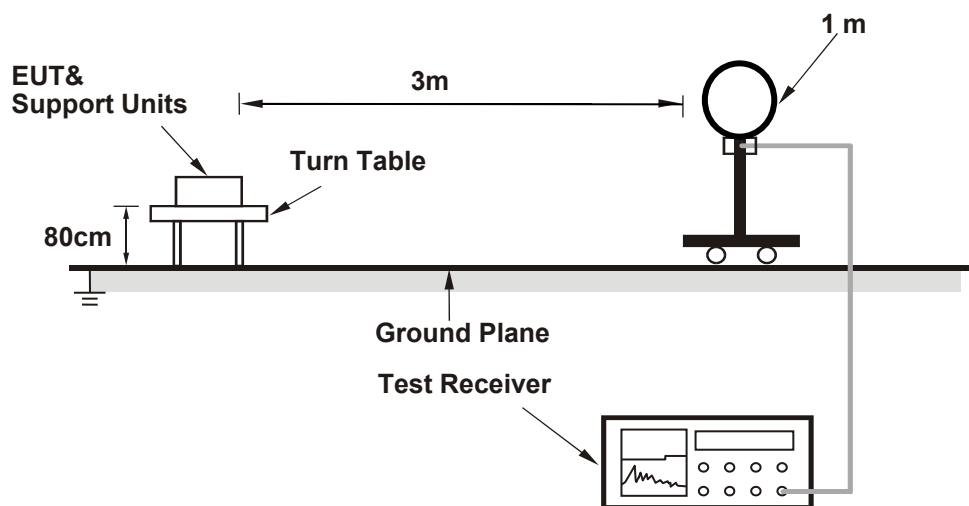
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
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.
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

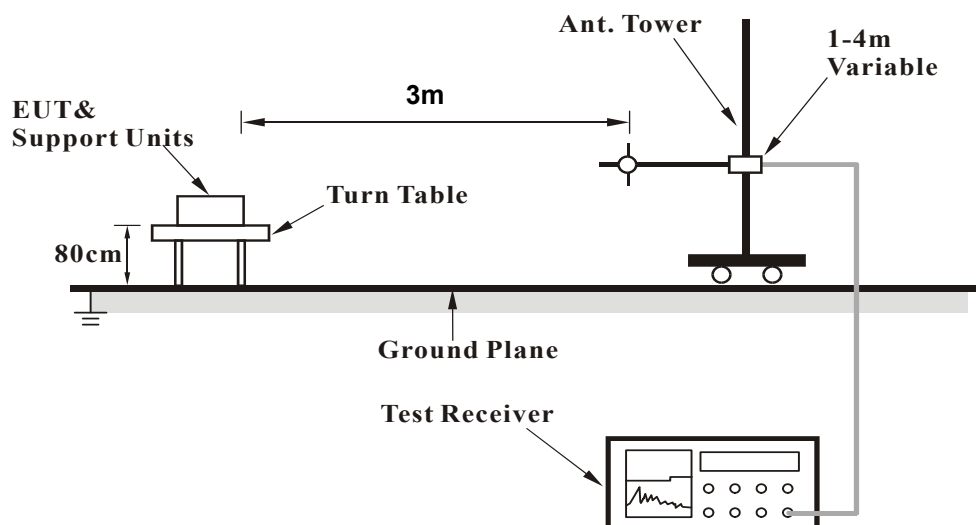
No deviation.

4.1.5 Test Setup

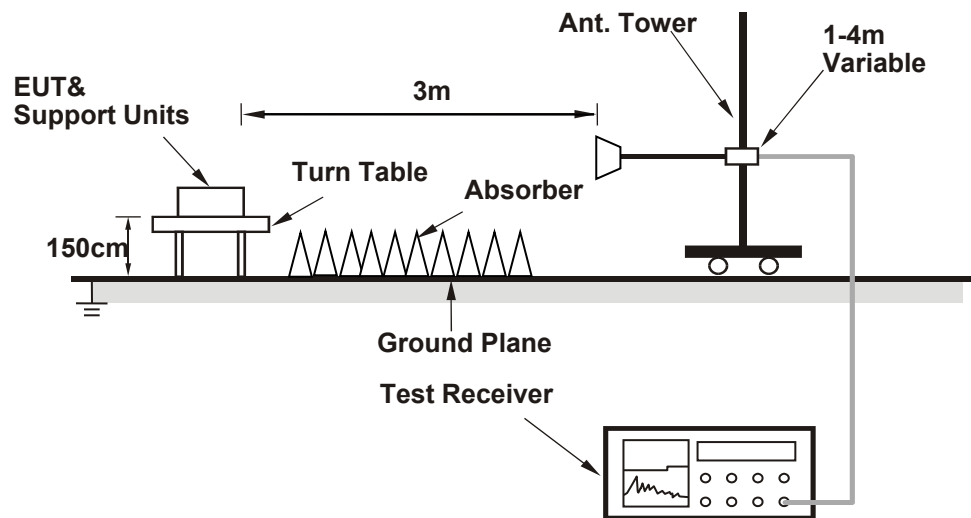
For Radiated emission below 30MHz



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

- Placed the EUT on the testing table.
- Controlling software (MT7922 QA 0.0.2.55) 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	61.2 PK	74.0	-12.8	3.00 H	249	65.5	-4.3
2	2390.00	53.6 AV	54.0	-0.4	3.00 H	249	57.9	-4.3
3	*2412.00	116.9 PK			3.00 H	249	121.2	-4.3
4	*2412.00	114.6 AV			3.00 H	249	118.9	-4.3
5	4824.00	43.4 PK	74.0	-30.6	2.34 H	64	42.9	0.5
6	4824.00	40.8 AV	54.0	-13.2	2.34 H	64	40.3	0.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	59.8 PK	74.0	-14.2	1.18 V	297	64.1	-4.3
2	2390.00	53.5 AV	54.0	-0.5	1.18 V	297	57.8	-4.3
3	*2412.00	113.3 PK			1.18 V	297	117.6	-4.3
4	*2412.00	111.3 AV			1.18 V	297	115.6	-4.3
5	4824.00	46.6 PK	74.0	-27.4	2.24 V	355	46.1	0.5
6	4824.00	45.4 AV	54.0	-8.6	2.24 V	355	44.9	0.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

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	2390.00	56.8 PK	74.0	-17.2	2.99 H	249	61.1	-4.3
2	2390.00	44.3 AV	54.0	-9.7	2.99 H	249	48.6	-4.3
3	*2437.00	115.7 PK			2.99 H	249	120.0	-4.3
4	*2437.00	113.4 AV			2.99 H	249	117.7	-4.3
5	2483.50	55.8 PK	74.0	-18.2	2.99 H	249	60.2	-4.4
6	2483.50	42.8 AV	54.0	-11.2	2.99 H	249	47.2	-4.4
7	4874.00	42.5 PK	74.0	-31.5	2.20 H	64	42.0	0.5
8	4874.00	39.9 AV	54.0	-14.1	2.20 H	64	39.4	0.5
9	7311.00	56.6 PK	74.0	-17.4	1.96 H	238	49.8	6.8
10	7311.00	53.9 AV	54.0	-0.1	1.96 H	238	47.1	6.8
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	59.2 PK	74.0	-14.8	1.15 V	282	63.5	-4.3
2	2390.00	48.2 AV	54.0	-5.8	1.15 V	282	52.5	-4.3
3	*2437.00	112.4 PK			1.15 V	282	116.7	-4.3
4	*2437.00	110.3 AV			1.15 V	282	114.6	-4.3
5	2483.50	58.7 PK	74.0	-15.3	1.15 V	282	63.1	-4.4
6	2483.50	47.5 AV	54.0	-6.5	1.15 V	282	51.9	-4.4
7	4874.00	46.0 PK	74.0	-28.0	2.28 V	332	45.5	0.5
8	4874.00	44.7 AV	54.0	-9.3	2.28 V	332	44.2	0.5
9	7311.00	51.2 PK	74.0	-22.8	1.49 V	336	44.4	6.8
10	7311.00	47.6 AV	54.0	-6.4	1.49 V	336	40.8	6.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
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	115.6 PK			3.24 H	241	119.9	-4.3
2	*2462.00	113.7 AV			3.24 H	241	118.0	-4.3
3	2483.50	57.9 PK	74.0	-16.1	3.24 H	241	62.3	-4.4
4	2483.50	53.4 AV	54.0	-0.6	3.24 H	241	57.8	-4.4
5	4924.00	41.6 PK	74.0	-32.4	2.16 H	57	40.9	0.7
6	4924.00	38.9 AV	54.0	-15.1	2.16 H	57	38.2	0.7
7	7386.00	56.1 PK	74.0	-17.9	1.99 H	243	48.9	7.2
8	7386.00	53.1 AV	54.0	-0.9	1.99 H	243	45.9	7.2
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	112.7 PK			1.18 V	312	117.0	-4.3
2	*2462.00	110.7 AV			1.18 V	312	115.0	-4.3
3	2483.50	54.8 PK	74.0	-19.2	1.18 V	312	59.2	-4.4
4	2483.50	45.9 AV	54.0	-8.1	1.18 V	312	50.3	-4.4
5	4924.00	45.7 PK	74.0	-28.3	2.28 V	344	45.0	0.7
6	4924.00	44.1 AV	54.0	-9.9	2.28 V	344	43.4	0.7
7	7386.00	50.8 PK	74.0	-23.2	1.52 V	330	43.6	7.2
8	7386.00	47.0 AV	54.0	-7.0	1.52 V	330	39.8	7.2

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	112.7 PK			2.62 H	65	117.0	-4.3
2	*2467.00	110.6 AV			2.62 H	65	114.9	-4.3
3	2484.67	60.1 PK	74.0	-13.9	2.62 H	65	64.5	-4.4
4	2484.67	53.5 AV	54.0	-0.5	2.62 H	65	57.9	-4.4
5	4934.00	42.9 PK	74.0	-31.1	2.18 H	61	42.1	0.8
6	4934.00	40.1 AV	54.0	-13.9	2.18 H	61	39.3	0.8
7	7401.00	42.6 PK	74.0	-31.4	1.99 H	250	35.3	7.3
8	7401.00	39.6 AV	54.0	-14.4	1.99 H	250	32.3	7.3
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	110.4 PK			1.21 V	284	114.7	-4.3
2	*2467.00	108.4 AV			1.21 V	284	112.7	-4.3
3	2484.30	59.1 PK	74.0	-14.9	1.21 V	284	63.5	-4.4
4	2484.30	53.2 AV	54.0	-0.8	1.21 V	284	57.6	-4.4
5	4934.00	43.1 PK	74.0	-30.9	2.33 V	353	42.3	0.8
6	4934.00	40.4 AV	54.0	-13.6	2.33 V	353	39.6	0.8
7	7401.00	42.7 PK	74.0	-31.3	1.47 V	321	35.4	7.3
8	7401.00	39.6 AV	54.0	-14.4	1.47 V	321	32.3	7.3

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	111.4 PK			2.67 H	68	115.7	-4.3
2	*2472.00	108.9 AV			2.67 H	68	113.2	-4.3
3	2485.87	59.9 PK	74.0	-14.1	2.67 H	68	64.3	-4.4
4	2485.87	53.8 AV	54.0	-0.2	2.67 H	68	58.2	-4.4
5	4944.00	42.5 PK	74.0	-31.5	2.13 H	50	41.7	0.8
6	4944.00	39.9 AV	54.0	-14.1	2.13 H	50	39.1	0.8
7	7416.00	42.4 PK	74.0	-31.6	2.00 H	253	35.1	7.3
8	7416.00	39.2 AV	54.0	-14.8	2.00 H	253	31.9	7.3
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	108.8 PK			1.21 V	310	113.1	-4.3
2	*2472.00	105.9 AV			1.21 V	310	110.2	-4.3
3	2486.57	59.0 PK	74.0	-15.0	1.21 V	310	63.4	-4.4
4	2486.57	53.6 AV	54.0	-0.4	1.21 V	310	58.0	-4.4
5	4944.00	43.2 PK	74.0	-30.8	2.34 V	350	42.4	0.8
6	4944.00	40.8 AV	54.0	-13.2	2.34 V	350	40.0	0.8
7	7416.00	43.2 PK	74.0	-30.8	1.50 V	331	35.9	7.3
8	7416.00	39.8 AV	54.0	-14.2	1.50 V	331	32.5	7.3

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	2389.58	68.9 PK	74.0	-5.1	2.96 H	250	73.1	-4.2
2	2389.58	53.8 AV	54.0	-0.2	2.96 H	250	58.0	-4.2
3	*2412.00	115.3 PK			2.96 H	250	119.6	-4.3
4	*2412.00	107.4 AV			2.96 H	250	111.7	-4.3
5	4824.00	43.1 PK	74.0	-30.9	2.15 H	71	42.6	0.5
6	4824.00	39.7 AV	54.0	-14.3	2.15 H	71	39.2	0.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2389.58	62.9 PK	74.0	-11.1	1.19 V	300	67.1	-4.2
2	2389.58	50.3 AV	54.0	-3.7	1.19 V	300	54.5	-4.2
3	*2412.00	111.6 PK			1.19 V	300	115.9	-4.3
4	*2412.00	103.6 AV			1.19 V	300	107.9	-4.3
5	4824.00	43.7 PK	74.0	-30.3	2.27 V	341	43.2	0.5
6	4824.00	40.5 AV	54.0	-13.5	2.27 V	341	40.0	0.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

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	2390.00	72.5 PK	74.0	-1.5	2.63 H	69	76.8	-4.3
2	2390.00	52.8 AV	54.0	-1.2	2.63 H	69	57.1	-4.3
3	*2437.00	119.1 PK			2.63 H	69	123.4	-4.3
4	*2437.00	110.2 AV			2.63 H	69	114.5	-4.3
5	2483.50	63.9 PK	74.0	-10.1	2.63 H	69	68.3	-4.4
6	2483.50	47.5 AV	54.0	-6.5	2.63 H	69	51.9	-4.4
7	4874.00	43.1 PK	74.0	-30.9	2.16 H	55	42.6	0.5
8	4874.00	40.3 AV	54.0	-13.7	2.16 H	55	39.8	0.5
9	7311.00	42.4 PK	74.0	-31.6	2.04 H	241	35.6	6.8
10	7311.00	39.4 AV	54.0	-14.6	2.04 H	241	32.6	6.8

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	59.1 PK	74.0	-14.9	1.13 V	296	63.4	-4.3
2	2390.00	48.2 AV	54.0	-5.8	1.13 V	296	52.5	-4.3
3	*2437.00	114.9 PK			1.13 V	296	119.2	-4.3
4	*2437.00	106.6 AV			1.13 V	296	110.9	-4.3
5	2483.50	58.8 PK	74.0	-15.2	1.13 V	296	63.2	-4.4
6	2483.50	47.9 AV	54.0	-6.1	1.13 V	296	52.3	-4.4
7	4874.00	42.8 PK	74.0	-31.2	2.28 V	360	42.3	0.5
8	4874.00	40.0 AV	54.0	-14.0	2.28 V	360	39.5	0.5
9	7311.00	42.4 PK	74.0	-31.6	1.49 V	317	35.6	6.8
10	7311.00	39.5 AV	54.0	-14.5	1.49 V	317	32.7	6.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
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	115.7 PK			2.83 H	250	120.0	-4.3
2	*2462.00	107.6 AV			2.83 H	250	111.9	-4.3
3	2483.50	71.3 PK	74.0	-2.7	2.83 H	250	75.7	-4.4
4	2483.50	53.9 AV	54.0	-0.1	2.83 H	250	58.3	-4.4
5	4924.00	42.8 PK	74.0	-31.2	2.20 H	71	42.1	0.7
6	4924.00	40.2 AV	54.0	-13.8	2.20 H	71	39.5	0.7
7	7386.00	42.7 PK	74.0	-31.3	1.99 H	246	35.5	7.2
8	7386.00	40.0 AV	54.0	-14.0	1.99 H	246	32.8	7.2
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	111.8 PK			1.18 V	285	116.1	-4.3
2	*2462.00	103.4 AV			1.18 V	285	107.7	-4.3
3	2483.50	62.1 PK	74.0	-11.9	1.18 V	285	66.5	-4.4
4	2483.50	49.8 AV	54.0	-4.2	1.18 V	285	54.2	-4.4
5	4924.00	43.4 PK	74.0	-30.6	2.37 V	346	42.7	0.7
6	4924.00	40.7 AV	54.0	-13.3	2.37 V	346	40.0	0.7
7	7386.00	42.9 PK	74.0	-31.1	1.45 V	327	35.7	7.2
8	7386.00	39.9 AV	54.0	-14.1	1.45 V	327	32.7	7.2

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	115.1 PK			2.57 H	63	119.4	-4.3
2	*2467.00	105.5 AV			2.57 H	63	109.8	-4.3
3	2484.40	64.9 PK	74.0	-9.1	2.57 H	63	69.3	-4.4
4	2484.40	53.5 AV	54.0	-0.5	2.57 H	63	57.9	-4.4
5	4934.00	43.1 PK	74.0	-30.9	2.14 H	73	42.3	0.8
6	4934.00	40.5 AV	54.0	-13.5	2.14 H	73	39.7	0.8
7	7401.00	42.6 PK	74.0	-31.4	2.03 H	261	35.3	7.3
8	7401.00	39.3 AV	54.0	-14.7	2.03 H	261	32.0	7.3
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	108.2 PK			1.23 V	281	112.5	-4.3
2	*2467.00	102.1 AV			1.23 V	281	106.4	-4.3
3	2485.10	58.7 PK	74.0	-15.3	1.23 V	281	63.1	-4.4
4	2485.10	48.5 AV	54.0	-5.5	1.23 V	281	52.9	-4.4
5	4934.00	43.1 PK	74.0	-30.9	2.34 V	350	42.3	0.8
6	4934.00	40.6 AV	54.0	-13.4	2.34 V	350	39.8	0.8
7	7401.00	42.4 PK	74.0	-31.6	1.50 V	310	35.1	7.3
8	7401.00	39.3 AV	54.0	-14.7	1.50 V	310	32.0	7.3

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	110.2 PK			2.62 H	68	114.5	-4.3
2	*2472.00	102.0 AV			2.62 H	68	106.3	-4.3
3	2487.15	65.3 PK	74.0	-8.7	2.62 H	68	69.7	-4.4
4	2487.15	53.6 AV	54.0	-0.4	2.62 H	68	58.0	-4.4
5	4944.00	42.6 PK	74.0	-31.4	2.15 H	66	41.8	0.8
6	4944.00	39.6 AV	54.0	-14.4	2.15 H	66	38.8	0.8
7	7416.00	42.3 PK	74.0	-31.7	2.04 H	261	35.0	7.3
8	7416.00	39.6 AV	54.0	-14.4	2.04 H	261	32.3	7.3
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	107.1 PK			1.17 V	287	111.4	-4.3
2	*2472.00	99.4 AV			1.17 V	287	103.7	-4.3
3	2484.25	63.2 PK	74.0	-10.8	1.17 V	287	67.6	-4.4
4	2484.25	52.3 AV	54.0	-1.7	1.17 V	287	56.7	-4.4
5	4944.00	42.7 PK	74.0	-31.3	2.29 V	360	41.9	0.8
6	4944.00	40.3 AV	54.0	-13.7	2.29 V	360	39.5	0.8
7	7416.00	42.5 PK	74.0	-31.5	1.49 V	305	35.2	7.3
8	7416.00	39.6 AV	54.0	-14.4	1.49 V	305	32.3	7.3

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	2389.04	65.8 PK	74.0	-8.2	2.68 H	49	70.0	-4.2
2	2389.04	53.1 AV	54.0	-0.9	2.68 H	49	57.3	-4.2
3	*2412.00	116.3 PK			2.68 H	49	120.6	-4.3
4	*2412.00	106.5 AV			2.68 H	49	110.8	-4.3
5	4824.00	43.3 PK	74.0	-30.7	2.12 H	70	42.8	0.5
6	4824.00	39.9 AV	54.0	-14.1	2.12 H	70	39.4	0.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2388.91	62.4 PK	74.0	-11.6	1.21 V	303	66.6	-4.2
2	2388.91	48.6 AV	54.0	-5.4	1.21 V	303	52.8	-4.2
3	*2412.00	115.2 PK			1.21 V	303	119.5	-4.3
4	*2412.00	102.7 AV			1.21 V	303	107.0	-4.3
5	4824.00	43.0 PK	74.0	-31.0	2.23 V	358	42.5	0.5
6	4824.00	40.1 AV	54.0	-13.9	2.23 V	358	39.6	0.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

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	2390.00	71.4 PK	74.0	-2.6	2.59 H	67	75.7	-4.3
2	2390.00	53.3 AV	54.0	-0.7	2.59 H	67	57.6	-4.3
3	*2437.00	119.5 PK			2.59 H	67	123.8	-4.3
4	*2437.00	108.8 AV			2.59 H	67	113.1	-4.3
5	2483.50	62.7 PK	74.0	-11.3	2.59 H	67	67.1	-4.4
6	2483.50	48.3 AV	54.0	-5.7	2.59 H	67	52.7	-4.4
7	4874.00	43.5 PK	74.0	-30.5	2.23 H	52	43.0	0.5
8	4874.00	40.6 AV	54.0	-13.4	2.23 H	52	40.1	0.5
9	7311.00	42.6 PK	74.0	-31.4	1.98 H	245	35.8	6.8
10	7311.00	39.8 AV	54.0	-14.2	1.98 H	245	33.0	6.8

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	58.8 PK	74.0	-15.2	1.13 V	286	63.1	-4.3
2	2390.00	48.0 AV	54.0	-6.0	1.13 V	286	52.3	-4.3
3	*2437.00	118.2 PK			1.13 V	286	122.5	-4.3
4	*2437.00	104.4 AV			1.13 V	286	108.7	-4.3
5	2483.50	59.7 PK	74.0	-14.3	1.13 V	286	64.1	-4.4
6	2483.50	48.4 AV	54.0	-5.6	1.13 V	286	52.8	-4.4
7	4874.00	43.5 PK	74.0	-30.5	2.28 V	342	43.0	0.5
8	4874.00	40.5 AV	54.0	-13.5	2.28 V	342	40.0	0.5
9	7311.00	43.2 PK	74.0	-30.8	1.46 V	312	36.4	6.8
10	7311.00	40.1 AV	54.0	-13.9	1.46 V	312	33.3	6.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
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	116.5 PK			2.57 H	67	120.8	-4.3
2	*2462.00	106.2 AV			2.57 H	67	110.5	-4.3
3	2483.85	66.1 PK	74.0	-7.9	2.57 H	67	70.5	-4.4
4	2483.85	53.7 AV	54.0	-0.3	2.57 H	67	58.1	-4.4
5	4924.00	42.8 PK	74.0	-31.2	2.13 H	57	42.1	0.7
6	4924.00	39.8 AV	54.0	-14.2	2.13 H	57	39.1	0.7
7	7386.00	42.3 PK	74.0	-31.7	1.98 H	265	35.1	7.2
8	7386.00	39.3 AV	54.0	-14.7	1.98 H	265	32.1	7.2
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	115.0 PK			1.18 V	292	119.3	-4.3
2	*2462.00	102.5 AV			1.18 V	292	106.8	-4.3
3	2483.85	61.3 PK	74.0	-12.7	1.18 V	292	65.7	-4.4
4	2483.85	49.6 AV	54.0	-4.4	1.18 V	292	54.0	-4.4
5	4924.00	43.0 PK	74.0	-31.0	2.32 V	360	42.3	0.7
6	4924.00	40.5 AV	54.0	-13.5	2.32 V	360	39.8	0.7
7	7386.00	42.9 PK	74.0	-31.1	1.42 V	306	35.7	7.2
8	7386.00	39.7 AV	54.0	-14.3	1.42 V	306	32.5	7.2

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	114.2 PK			2.59 H	49	118.5	-4.3
2	*2467.00	104.1 AV			2.59 H	49	108.4	-4.3
3	2487.76	65.6 PK	74.0	-8.4	2.59 H	49	70.0	-4.4
4	2487.76	53.6 AV	54.0	-0.4	2.59 H	49	58.0	-4.4
5	4934.00	42.4 PK	74.0	-31.6	2.18 H	60	41.6	0.8
6	4934.00	39.6 AV	54.0	-14.4	2.18 H	60	38.8	0.8
7	7401.00	42.1 PK	74.0	-31.9	1.98 H	253	34.8	7.3
8	7401.00	39.4 AV	54.0	-14.6	1.98 H	253	32.1	7.3
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	111.3 PK			1.15 V	302	115.6	-4.3
2	*2467.00	100.8 AV			1.15 V	302	105.1	-4.3
3	2488.61	61.4 PK	74.0	-12.6	1.15 V	302	65.8	-4.4
4	2488.61	48.1 AV	54.0	-5.9	1.15 V	302	52.5	-4.4
5	4934.00	43.7 PK	74.0	-30.3	2.30 V	337	42.9	0.8
6	4934.00	40.8 AV	54.0	-13.2	2.30 V	337	40.0	0.8
7	7401.00	42.3 PK	74.0	-31.7	1.51 V	323	35.0	7.3
8	7401.00	39.1 AV	54.0	-14.9	1.51 V	323	31.8	7.3

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	108.9 PK			2.66 H	70	113.2	-4.3
2	*2472.00	97.2 AV			2.66 H	70	101.5	-4.3
3	2484.16	64.7 PK	74.0	-9.3	2.66 H	70	69.1	-4.4
4	2484.16	53.6 AV	54.0	-0.4	2.66 H	70	58.0	-4.4
5	4944.00	42.6 PK	74.0	-31.4	2.16 H	57	41.8	0.8
6	4944.00	39.4 AV	54.0	-14.6	2.16 H	57	38.6	0.8
7	7416.00	42.6 PK	74.0	-31.4	1.93 H	277	35.3	7.3
8	7416.00	39.6 AV	54.0	-14.4	1.93 H	277	32.3	7.3
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	104.6 PK			1.16 V	291	108.9	-4.3
2	*2472.00	94.5 AV			1.16 V	291	98.8	-4.3
3	2484.18	60.4 PK	74.0	-13.6	1.16 V	291	64.8	-4.4
4	2484.18	50.8 AV	54.0	-3.2	1.16 V	291	55.2	-4.4
5	4944.00	42.8 PK	74.0	-31.2	2.34 V	349	42.0	0.8
6	4944.00	40.3 AV	54.0	-13.7	2.34 V	349	39.5	0.8
7	7416.00	42.6 PK	74.0	-31.4	1.41 V	327	35.3	7.3
8	7416.00	39.4 AV	54.0	-14.6	1.41 V	327	32.1	7.3

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	2389.55	60.3 PK	74.0	-13.7	2.56 H	74	64.5	-4.2
2	2389.55	53.6 AV	54.0	-0.4	2.56 H	74	57.8	-4.2
3	*2422.00	112.2 PK			2.56 H	74	116.5	-4.3
4	*2422.00	103.1 AV			2.56 H	74	107.4	-4.3
5	4844.00	42.8 PK	74.0	-31.2	2.12 H	66	42.3	0.5
6	4844.00	39.5 AV	54.0	-14.5	2.12 H	66	39.0	0.5
7	7266.00	42.6 PK	74.0	-31.4	2.01 H	267	35.9	6.7
8	7266.00	39.7 AV	54.0	-14.3	2.01 H	267	33.0	6.7
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	2389.91	57.8 PK	74.0	-16.2	1.18 V	287	62.0	-4.2
2	2389.91	47.8 AV	54.0	-6.2	1.18 V	287	52.0	-4.2
3	*2422.00	108.9 PK			1.18 V	287	113.2	-4.3
4	*2422.00	98.4 AV			1.18 V	287	102.7	-4.3
5	4844.00	42.8 PK	74.0	-31.2	2.34 V	355	42.3	0.5
6	4844.00	40.1 AV	54.0	-13.9	2.34 V	355	39.6	0.5
7	7266.00	42.6 PK	74.0	-31.4	1.47 V	324	35.9	6.7
8	7266.00	39.6 AV	54.0	-14.4	1.47 V	324	32.9	6.7

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	2388.28	68.4 PK	74.0	-5.6	2.60 H	62	72.6	-4.2
2	2388.28	53.1 AV	54.0	-0.9	2.60 H	62	57.3	-4.2
3	*2437.00	116.7 PK			2.60 H	62	121.0	-4.3
4	*2437.00	105.6 AV			2.60 H	62	109.9	-4.3
5	2485.48	66.5 PK	74.0	-7.5	2.60 H	62	70.9	-4.4
6	2485.48	52.0 AV	54.0	-2.0	2.60 H	62	56.4	-4.4
7	4874.00	42.8 PK	74.0	-31.2	2.11 H	72	42.3	0.5
8	4874.00	39.6 AV	54.0	-14.4	2.11 H	72	39.1	0.5
9	7311.00	42.4 PK	74.0	-31.6	1.98 H	260	35.6	6.8
10	7311.00	39.4 AV	54.0	-14.6	1.98 H	260	32.6	6.8

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	59.6 PK	74.0	-14.4	1.16 V	287	63.9	-4.3
2	2390.00	48.5 AV	54.0	-5.5	1.16 V	287	52.8	-4.3
3	*2437.00	111.1 PK			1.16 V	287	115.4	-4.3
4	*2437.00	102.7 AV			1.16 V	287	107.0	-4.3
5	2483.50	58.9 PK	74.0	-15.1	1.16 V	287	63.3	-4.4
6	2483.50	47.9 AV	54.0	-6.1	1.16 V	287	52.3	-4.4
7	4874.00	43.5 PK	74.0	-30.5	2.29 V	350	43.0	0.5
8	4874.00	40.7 AV	54.0	-13.3	2.29 V	350	40.2	0.5
9	7311.00	42.1 PK	74.0	-31.9	1.49 V	328	35.3	6.8
10	7311.00	39.1 AV	54.0	-14.9	1.49 V	328	32.3	6.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
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	113.2 PK			2.66 H	69	117.5	-4.3
2	*2452.00	102.6 AV			2.66 H	69	106.9	-4.3
3	2489.23	63.9 PK	74.0	-10.1	2.66 H	69	68.3	-4.4
4	2489.23	53.4 AV	54.0	-0.6	2.66 H	69	57.8	-4.4
5	4904.00	43.3 PK	74.0	-30.7	2.19 H	55	42.7	0.6
6	4904.00	40.1 AV	54.0	-13.9	2.19 H	55	39.5	0.6
7	7356.00	41.8 PK	74.0	-32.2	1.99 H	260	34.8	7.0
8	7356.00	39.1 AV	54.0	-14.9	1.99 H	260	32.1	7.0
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	*2452.00	108.1 PK			1.21 V	288	112.4	-4.3
2	*2452.00	97.8 AV			1.21 V	288	102.1	-4.3
3	2491.51	59.0 PK	74.0	-15.0	1.21 V	288	63.4	-4.4
4	2491.51	48.1 AV	54.0	-5.9	1.21 V	288	52.5	-4.4
5	4904.00	43.1 PK	74.0	-30.9	2.35 V	360	42.5	0.6
6	4904.00	40.6 AV	54.0	-13.4	2.35 V	360	40.0	0.6
7	7356.00	42.6 PK	74.0	-31.4	1.44 V	326	35.6	7.0
8	7356.00	39.3 AV	54.0	-14.7	1.44 V	326	32.3	7.0

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 (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	111.1 PK			2.58 H	71	115.4	-4.3
2	*2457.00	101.1 AV			2.58 H	71	105.4	-4.3
3	2489.42	63.7 PK	74.0	-10.3	2.58 H	71	68.1	-4.4
4	2489.42	53.8 AV	54.0	-0.2	2.58 H	71	58.2	-4.4
5	4914.00	43.4 PK	74.0	-30.6	2.13 H	63	42.7	0.7
6	4914.00	40.3 AV	54.0	-13.7	2.13 H	63	39.6	0.7
7	7371.00	42.6 PK	74.0	-31.4	1.96 H	266	35.5	7.1
8	7371.00	39.6 AV	54.0	-14.4	1.96 H	266	32.5	7.1
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	*2457.00	107.7 PK			1.18 V	289	112.0	-4.3
2	*2457.00	96.3 AV			1.18 V	289	100.6	-4.3
3	2483.50	58.8 PK	74.0	-15.2	1.18 V	289	63.2	-4.4
4	2483.50	49.3 AV	54.0	-4.7	1.18 V	289	53.7	-4.4
5	4914.00	42.6 PK	74.0	-31.4	2.29 V	360	41.9	0.7
6	4914.00	40.1 AV	54.0	-13.9	2.29 V	360	39.4	0.7
7	7371.00	42.3 PK	74.0	-31.7	1.48 V	322	35.2	7.1
8	7371.00	39.2 AV	54.0	-14.8	1.48 V	322	32.1	7.1

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 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	107.9 PK			2.67 H	63	112.2	-4.3
2	*2462.00	97.9 AV			2.67 H	63	102.2	-4.3
3	2486.32	63.5 PK	74.0	-10.5	2.67 H	63	67.9	-4.4
4	2486.32	53.7 AV	54.0	-0.3	2.67 H	63	58.1	-4.4
5	4924.00	42.9 PK	74.0	-31.1	2.13 H	50	42.2	0.7
6	4924.00	39.8 AV	54.0	-14.2	2.13 H	50	39.1	0.7
7	7386.00	42.3 PK	74.0	-31.7	1.93 H	253	35.1	7.2
8	7386.00	39.5 AV	54.0	-14.5	1.93 H	253	32.3	7.2
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	105.3 PK			1.15 V	291	109.6	-4.3
2	*2462.00	93.4 AV			1.15 V	291	97.7	-4.3
3	2483.50	61.1 PK	74.0	-12.9	1.15 V	291	65.5	-4.4
4	2483.50	52.2 AV	54.0	-1.8	1.15 V	291	56.6	-4.4
5	4924.00	43.5 PK	74.0	-30.5	2.39 V	350	42.8	0.7
6	4924.00	40.9 AV	54.0	-13.1	2.39 V	350	40.2	0.7
7	7386.00	42.6 PK	74.0	-31.4	1.46 V	325	35.4	7.2
8	7386.00	39.3 AV	54.0	-14.7	1.46 V	325	32.1	7.2

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	2368.43	70.3 PK	74.0	-3.7	2.66 H	248	74.5	-4.2
2	2368.43	53.5 AV	54.0	-0.5	2.66 H	248	57.7	-4.2
3	2371.19	70.8 PK	74.0	-3.2	2.66 H	248	75.0	-4.2
4	2371.19	51.8 AV	54.0	-2.2	2.66 H	248	56.0	-4.2
5	*2412.00	124.3 PK			2.66 H	248	128.6	-4.3
6	*2412.00	115.8 AV			2.66 H	248	120.1	-4.3
7	4824.00	40.3 PK	74.0	-33.7	1.23 H	97	39.8	0.5
8	4824.00	34.7 AV	54.0	-19.3	1.23 H	97	34.2	0.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2370.54	67.5 PK	74.0	-6.5	1.20 V	270	71.7	-4.2
2	2370.54	51.7 AV	54.0	-2.3	1.20 V	270	55.9	-4.2
3	*2412.00	122.2 PK			1.20 V	270	126.5	-4.3
4	*2412.00	114.0 AV			1.20 V	270	118.3	-4.3
5	4824.00	41.0 PK	74.0	-33.0	2.18 V	105	40.5	0.5
6	4824.00	35.3 AV	54.0	-18.7	2.18 V	105	34.8	0.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

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	124.8 PK			2.69 H	233	129.1	-4.3
2	*2462.00	116.0 AV			2.69 H	233	120.3	-4.3
3	2486.09	69.8 PK	74.0	-4.2	2.69 H	233	74.2	-4.4
4	2486.09	52.8 AV	54.0	-1.2	2.69 H	233	57.2	-4.4
5	2486.83	65.7 PK	74.0	-8.3	2.69 H	233	70.1	-4.4
6	2486.83	53.4 AV	54.0	-0.6	2.69 H	233	57.8	-4.4
7	4924.00	40.4 PK	74.0	-33.6	1.16 H	112	39.7	0.7
8	4924.00	35.1 AV	54.0	-18.9	1.16 H	112	34.4	0.7
9	7386.00	42.7 PK	74.0	-31.3	2.87 H	261	35.5	7.2
10	7386.00	36.3 AV	54.0	-17.7	2.87 H	261	29.1	7.2
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	122.3 PK			1.16 V	283	126.6	-4.3
2	*2462.00	114.3 AV			1.16 V	283	118.6	-4.3
3	2483.50	62.7 PK	74.0	-11.3	1.16 V	283	67.1	-4.4
4	2483.50	47.5 AV	54.0	-6.5	1.16 V	283	51.9	-4.4
5	2487.15	60.0 PK	74.0	-14.0	1.16 V	283	64.4	-4.4
6	2487.15	50.2 AV	54.0	-3.8	1.16 V	283	54.6	-4.4
7	4924.00	41.2 PK	74.0	-32.8	2.19 V	116	40.5	0.7
8	4924.00	35.4 AV	54.0	-18.6	2.19 V	116	34.7	0.7
9	7386.00	40.9 PK	74.0	-33.1	2.08 V	174	33.7	7.2
10	7386.00	34.7 AV	54.0	-19.3	2.08 V	174	27.5	7.2

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	122.0 PK			2.64 H	257	126.3	-4.3
2	*2467.00	113.7 AV			2.64 H	257	118.0	-4.3
3	2483.50	67.4 PK	74.0	-6.6	2.64 H	257	71.8	-4.4
4	2483.50	53.1 AV	54.0	-0.9	2.64 H	257	57.5	-4.4
5	4934.00	40.1 PK	74.0	-33.9	1.20 H	91	39.3	0.8
6	4934.00	34.5 AV	54.0	-19.5	1.20 H	91	33.7	0.8
7	7401.00	42.4 PK	74.0	-31.6	2.88 H	283	35.1	7.3
8	7401.00	36.1 AV	54.0	-17.9	2.88 H	283	28.8	7.3
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	118.4 PK			1.26 V	261	122.7	-4.3
2	*2467.00	110.4 AV			1.26 V	261	114.7	-4.3
3	2483.50	60.6 PK	74.0	-13.4	1.26 V	261	65.0	-4.4
4	2483.50	48.5 AV	54.0	-5.5	1.26 V	261	52.9	-4.4
5	2486.05	62.3 PK	74.0	-11.7	1.26 V	261	66.7	-4.4
6	2486.05	47.4 AV	54.0	-6.6	1.26 V	261	51.8	-4.4
7	4934.00	40.6 PK	74.0	-33.4	2.20 V	126	39.8	0.8
8	4934.00	35.3 AV	54.0	-18.7	2.20 V	126	34.5	0.8
9	7401.00	40.4 PK	74.0	-33.6	2.08 V	181	33.1	7.3
10	7401.00	33.9 AV	54.0	-20.1	2.08 V	181	26.6	7.3

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	117.1 PK			2.64 H	254	121.4	-4.3
2	*2472.00	107.0 AV			2.64 H	254	111.3	-4.3
3	2483.50	73.6 PK	74.0	-0.4	2.64 H	254	78.0	-4.4
4	2483.50	53.8 AV	54.0	-0.2	2.64 H	254	58.2	-4.4
5	4944.00	39.7 PK	74.0	-34.3	1.24 H	97	38.9	0.8
6	4944.00	34.6 AV	54.0	-19.4	1.24 H	97	33.8	0.8
7	7416.00	42.5 PK	74.0	-31.5	2.96 H	286	35.2	7.3
8	7416.00	35.9 AV	54.0	-18.1	2.96 H	286	28.6	7.3
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	114.1 PK			1.18 V	277	118.4	-4.3
2	*2472.00	104.0 AV			1.18 V	277	108.3	-4.3
3	2483.50	71.2 PK	74.0	-2.8	1.18 V	277	75.6	-4.4
4	2483.50	53.1 AV	54.0	-0.9	1.18 V	277	57.5	-4.4
5	4944.00	40.5 PK	74.0	-33.5	2.26 V	123	39.7	0.8
6	4944.00	35.2 AV	54.0	-18.8	2.26 V	123	34.4	0.8
7	7416.00	40.8 PK	74.0	-33.2	2.06 V	187	33.5	7.3
8	7416.00	34.5 AV	54.0	-19.5	2.06 V	187	27.2	7.3

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	2390.00	73.4 PK	74.0	-0.6	2.68 H	247	77.7	-4.3
2	2390.00	53.9 AV	54.0	-0.1	2.68 H	247	58.2	-4.3
3	*2437.00	124.6 PK			2.68 H	247	128.9	-4.3
4	*2437.00	116.8 AV			2.68 H	247	121.1	-4.3
5	2483.50	62.2 PK	74.0	-11.8	2.68 H	247	66.6	-4.4
6	2483.50	47.2 AV	54.0	-6.8	2.68 H	247	51.6	-4.4
7	4874.00	39.9 PK	74.0	-34.1	1.20 H	107	39.4	0.5
8	4874.00	34.6 AV	54.0	-19.4	1.20 H	107	34.1	0.5
9	7311.00	41.9 PK	74.0	-32.1	2.89 H	280	35.1	6.8
10	7311.00	35.5 AV	54.0	-18.5	2.89 H	280	28.7	6.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	65.2 PK	74.0	-8.8	1.21 V	256	69.5	-4.3
2	2390.00	49.8 AV	54.0	-4.2	1.21 V	256	54.1	-4.3
3	*2437.00	121.8 PK			1.21 V	256	126.1	-4.3
4	*2437.00	112.9 AV			1.21 V	256	117.2	-4.3
5	2483.50	63.1 PK	74.0	-10.9	1.21 V	256	67.5	-4.4
6	2483.50	47.7 AV	54.0	-6.3	1.21 V	256	52.1	-4.4
7	4874.00	40.6 PK	74.0	-33.4	2.26 V	124	40.1	0.5
8	4874.00	35.2 AV	54.0	-18.8	2.26 V	124	34.7	0.5
9	7311.00	40.6 PK	74.0	-33.4	2.05 V	175	33.8	6.8
10	7311.00	34.0 AV	54.0	-20.0	2.05 V	175	27.2	6.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
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	2389.54	73.6 PK	74.0	-0.4	2.66 H	263	77.8	-4.2
2	2389.54	52.9 AV	54.0	-1.1	2.66 H	263	57.1	-4.2
3	*2412.00	119.0 PK			2.66 H	263	123.3	-4.3
4	*2412.00	110.1 AV			2.66 H	263	114.4	-4.3
5	4824.00	39.6 PK	74.0	-34.4	1.16 H	83	39.1	0.5
6	4824.00	34.3 AV	54.0	-19.7	1.16 H	83	33.8	0.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	69.5 PK	74.0	-4.5	1.19 V	258	73.8	-4.3
2	2390.00	52.6 AV	54.0	-1.4	1.19 V	258	56.9	-4.3
3	*2412.00	115.6 PK			1.19 V	258	119.9	-4.3
4	*2412.00	107.4 AV			1.19 V	258	111.7	-4.3
5	4824.00	40.6 PK	74.0	-33.4	2.18 V	125	40.1	0.5
6	4824.00	35.0 AV	54.0	-19.0	2.18 V	125	34.5	0.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency.

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	119.5 PK			2.69 H	256	123.8	-4.3
2	*2462.00	110.5 AV			2.69 H	256	114.8	-4.3
3	2484.43	71.1 PK	74.0	-2.9	2.69 H	256	75.5	-4.4
4	2484.43	53.6 AV	54.0	-0.4	2.69 H	256	58.0	-4.4
5	4924.00	40.2 PK	74.0	-33.8	1.24 H	91	39.5	0.7
6	4924.00	34.7 AV	54.0	-19.3	1.24 H	91	34.0	0.7
7	7386.00	42.9 PK	74.0	-31.1	2.97 H	288	35.7	7.2
8	7386.00	36.3 AV	54.0	-17.7	2.97 H	288	29.1	7.2
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	115.5 PK			1.17 V	284	119.8	-4.3
2	*2462.00	107.4 AV			1.17 V	284	111.7	-4.3
3	2485.18	65.6 PK	74.0	-8.4	1.17 V	284	70.0	-4.4
4	2485.18	48.5 AV	54.0	-5.5	1.17 V	284	52.9	-4.4
5	4924.00	41.2 PK	74.0	-32.8	2.17 V	122	40.5	0.7
6	4924.00	35.7 AV	54.0	-18.3	2.17 V	122	35.0	0.7
7	7386.00	40.6 PK	74.0	-33.4	2.11 V	193	33.4	7.2
8	7386.00	34.2 AV	54.0	-19.8	2.11 V	193	27.0	7.2

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	116.2 PK			2.66 H	255	120.5	-4.3
2	*2467.00	107.2 AV			2.66 H	255	111.5	-4.3
3	2483.55	69.4 PK	74.0	-4.6	2.66 H	255	73.8	-4.4
4	2483.55	53.6 AV	54.0	-0.4	2.66 H	255	58.0	-4.4
5	4934.00	40.4 PK	74.0	-33.6	1.17 H	98	39.6	0.8
6	4934.00	34.9 AV	54.0	-19.1	1.17 H	98	34.1	0.8
7	7401.00	41.9 PK	74.0	-32.1	2.95 H	260	34.6	7.3
8	7401.00	35.7 AV	54.0	-18.3	2.95 H	260	28.4	7.3
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	112.9 PK			1.19 V	254	117.2	-4.3
2	*2467.00	104.8 AV			1.19 V	254	109.1	-4.3
3	2483.50	62.5 PK	74.0	-11.5	1.00 V	0	66.9	-4.4
4	2483.50	49.9 AV	54.0	-4.1	1.00 V	0	54.3	-4.4
5	2486.01	67.5 PK	74.0	-6.5	1.19 V	254	71.9	-4.4
6	2486.01	52.5 AV	54.0	-1.5	1.19 V	254	56.9	-4.4
7	4934.00	40.9 PK	74.0	-33.1	2.25 V	109	40.1	0.8
8	4934.00	35.7 AV	54.0	-18.3	2.25 V	109	34.9	0.8
9	7401.00	41.0 PK	74.0	-33.0	2.07 V	184	33.7	7.3
10	7401.00	34.7 AV	54.0	-19.3	2.07 V	184	27.4	7.3

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	111.6 PK			2.66 H	237	115.9	-4.3
2	*2472.00	102.4 AV			2.66 H	237	106.7	-4.3
3	2483.50	72.8 PK	74.0	-1.2	2.66 H	237	77.2	-4.4
4	2483.50	53.6 AV	54.0	-0.4	2.66 H	237	58.0	-4.4
5	4944.00	40.2 PK	74.0	-33.8	1.20 H	98	39.4	0.8
6	4944.00	34.8 AV	54.0	-19.2	1.20 H	98	34.0	0.8
7	7416.00	42.2 PK	74.0	-31.8	2.91 H	272	34.9	7.3
8	7416.00	35.8 AV	54.0	-18.2	2.91 H	272	28.5	7.3
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	108.8 PK			1.20 V	273	113.1	-4.3
2	*2472.00	101.9 AV			1.20 V	273	106.2	-4.3
3	2483.50	66.5 PK	74.0	-7.5	1.20 V	273	70.9	-4.4
4	2483.50	50.1 AV	54.0	-3.9	1.20 V	273	54.5	-4.4
5	4944.00	41.1 PK	74.0	-32.9	2.21 V	113	40.3	0.8
6	4944.00	35.6 AV	54.0	-18.4	2.21 V	113	34.8	0.8
7	7416.00	40.7 PK	74.0	-33.3	2.05 V	181	33.4	7.3
8	7416.00	34.3 AV	54.0	-19.7	2.05 V	181	27.0	7.3

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.

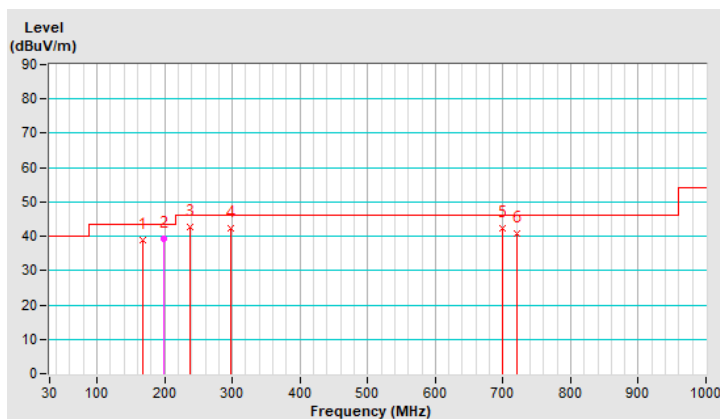
Below 1GHz Data:

RF Mode	TX 802.11b	Channel	CH 1 : 2412 MHz
Frequency Range	9kHz ~ 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	167.35	39.0 QP	43.5	-4.5	2.00 H	200	51.2	-12.2
2	199.70	39.4 QP	43.5	-4.1	1.50 H	53	54.4	-15.0
3	238.49	42.6 QP	46.0	-3.4	1.00 H	258	55.8	-13.2
4	297.00	42.4 QP	46.0	-3.6	1.50 H	344	53.2	-10.8
5	699.21	42.4 QP	46.0	-3.6	1.00 H	299	42.8	-0.4
6	721.31	40.9 QP	46.0	-5.1	1.50 H	237	41.1	-0.2

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 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.

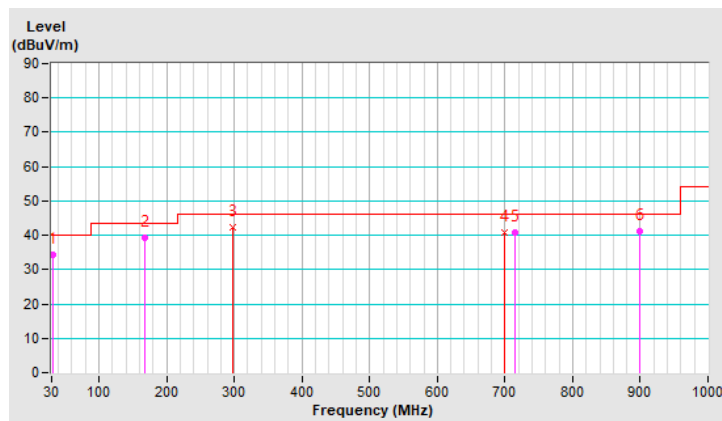


RF Mode	TX 802.11b	Channel	CH 1 : 2412 MHz
Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

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	31.20	34.3 QP	40.0	-5.7	1.00 V	333	48.1	-13.8
2	167.98	39.4 QP	43.5	-4.1	1.50 V	263	51.7	-12.3
3	297.60	42.2 QP	46.0	-3.8	2.00 V	342	53.0	-10.8
4	699.34	40.8 QP	46.0	-5.2	1.00 V	182	41.2	-0.4
5	714.97	40.8 QP	46.0	-5.2	1.50 V	286	41.1	-0.3
6	899.95	41.1 QP	46.0	-4.9	1.50 V	208	37.6	3.5

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.	Calibrated Date	Calibrated Until
Test Receiver R&S	ESCS 30	847124/029	Oct. 20, 2020	Oct. 19, 2021
LISN R&S	ESH3-Z5	848773/004	Oct. 27, 2020	Oct. 26, 2021
LISN R & S	ESH3-Z5	835239/001	Mar. 26, 2021	Mar. 25, 2022
50 ohms Terminator	50	3	Oct. 26, 2020	Oct. 25, 2021
RF Coaxial Cable JYEBO	5D-FB	COCCAB-001	Sep. 26, 2020	Sep. 25, 2021
Fixed attenuator STI	STI02-2200-10	005	Aug. 29, 2020	Aug. 28, 2021
Software BVADT	BVADT_Cond_ V7.3.7.4	NA	NA	NA

Note: 1. The test was performed in Conduction 1.

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

3. Tested Date: June 25, 2021

4.2.3 Test Procedures

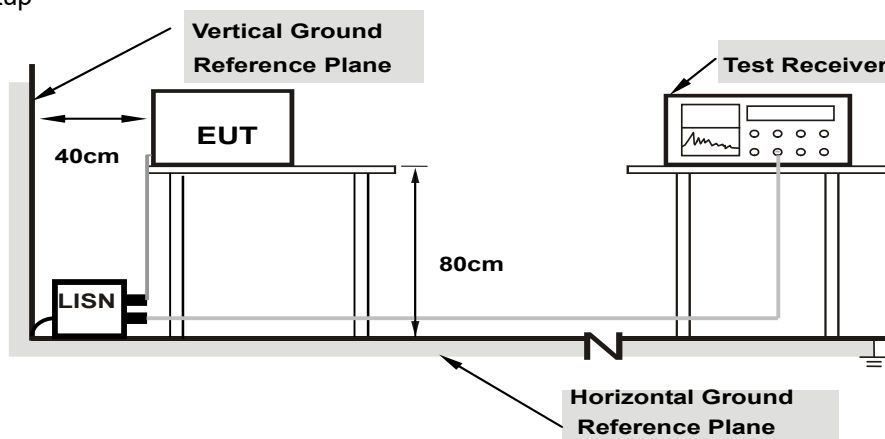
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance 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.

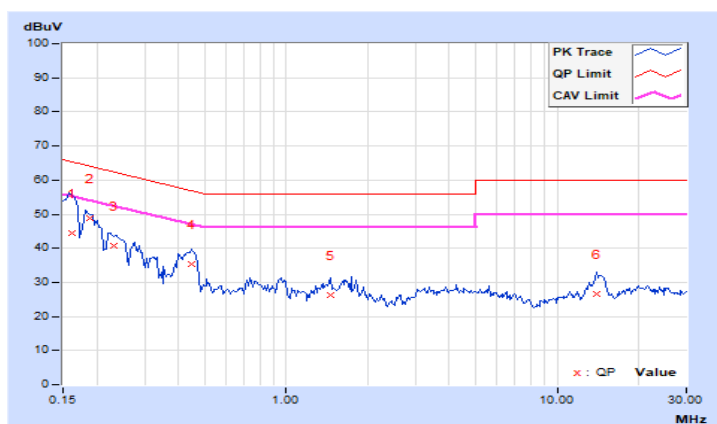
4.2.7 Test Results

RF Mode	TX 802.11b	Channel	CH 1 : 2412 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16159	9.95	34.57	16.83	44.52	26.78	65.38	55.38	-20.86	-28.60
2	0.18937	9.97	38.71	27.62	48.68	37.59	64.06	54.06	-15.38	-16.47
3	0.23079	9.97	30.93	19.15	40.90	29.12	62.42	52.42	-21.52	-23.30
4	0.44658	9.99	25.43	16.50	35.42	26.49	56.94	46.94	-21.52	-20.45
5	1.45526	10.05	16.31	11.02	26.36	21.07	56.00	46.00	-29.64	-24.93
6	13.96478	10.77	15.81	8.75	26.58	19.52	60.00	50.00	-33.42	-30.48

Remarks:

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

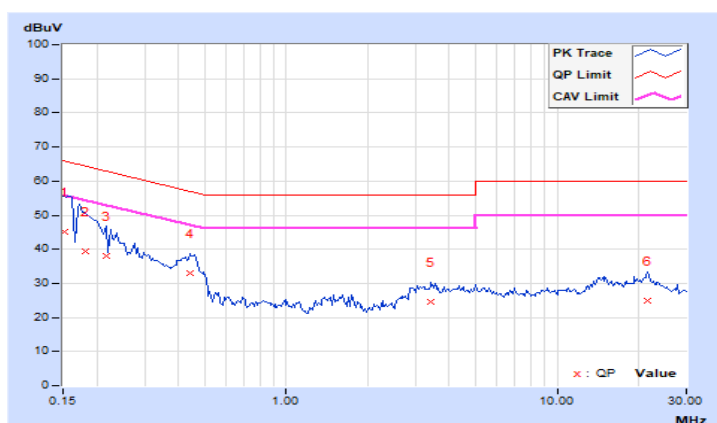


RF Mode	TX 802.11b	Channel	CH 1 : 2412 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15103	9.92	35.28	19.91	45.20	29.83	65.94	55.94	-20.74	-26.11
2	0.18115	9.94	29.30	15.18	39.24	25.12	64.43	54.43	-25.19	-29.31
3	0.21762	9.95	27.99	9.79	37.94	19.74	62.91	52.91	-24.97	-33.17
4	0.43942	9.96	23.10	13.83	33.06	23.79	57.07	47.07	-24.01	-23.28
5	3.42086	10.10	14.41	8.89	24.51	18.99	56.00	46.00	-31.49	-27.01
6	21.66047	10.87	14.07	8.75	24.94	19.62	60.00	50.00	-35.06	-30.38

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

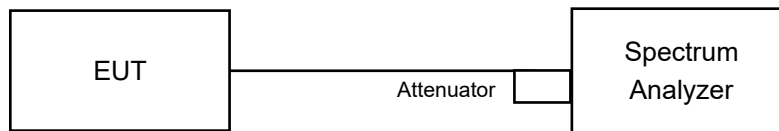


4.3 6dB Bandwidth Measurement

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

- a. Set resolution bandwidth (RBW) = 100kHz
- b. Set the video bandwidth (VBW) $\geq 3 \times$ RBW, Detector = Peak.
- c. Trace mode = max hold.
- d. Sweep = auto couple.
- e. 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 specific 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	9.01	8.11	0.5	Pass
6	2437	8.09	8.1	0.5	Pass
11	2462	8.09	8.1	0.5	Pass
12	2467	8.12	8.09	0.5	Pass
13	2472	8.11	8.1	0.5	Pass

802.11g

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	16.34	16.37	0.5	Pass
6	2437	16.33	16.35	0.5	Pass
11	2462	15.88	16.36	0.5	Pass
12	2467	15.93	16.36	0.5	Pass
13	2472	16.11	16.36	0.5	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	18.8	18.79	0.5	Pass
6	2437	18.72	18.81	0.5	Pass
11	2462	18.53	18.68	0.5	Pass
12	2467	18.77	18.69	0.5	Pass
13	2472	18.87	18.71	0.5	Pass

802.11ax (HE40)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
3	2422	37.1	35.19	0.5	Pass
6	2437	37.04	35.23	0.5	Pass
9	2452	34.05	35.61	0.5	Pass
10	2457	35.22	35.22	0.5	Pass
11	2462	36.24	36.13	0.5	Pass

802.11ax (RU26)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	2.13	2.16	0.5	Pass
11	2462	2.14	2.17	0.5	Pass
12	2467	2.14	2.1	0.5	Pass
13	2472	2.13	2.13	0.5	Pass

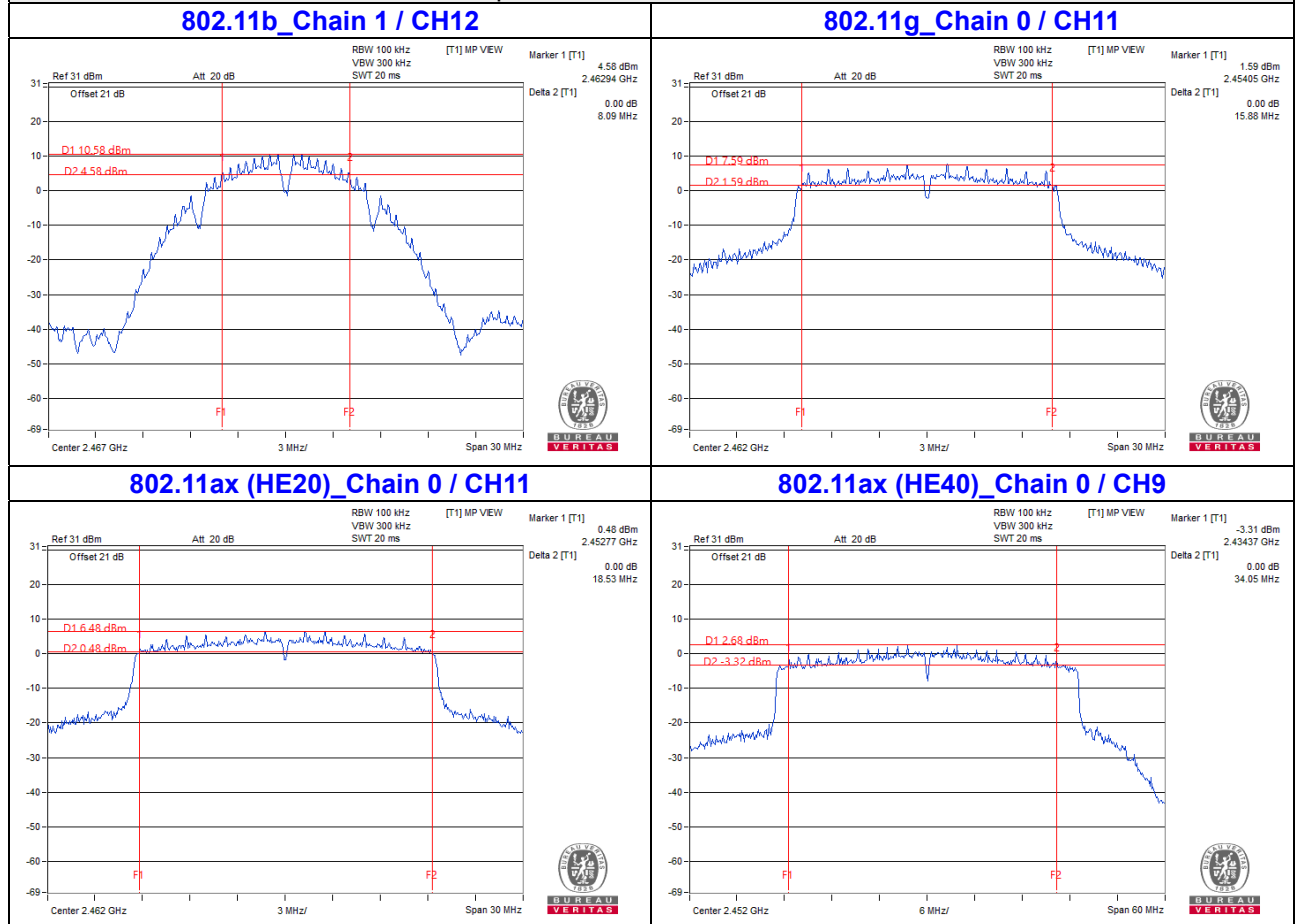
802.11ax (RU52)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
6	2437	17.12	17.17	0.5	Pass

802.11ax (RU106)

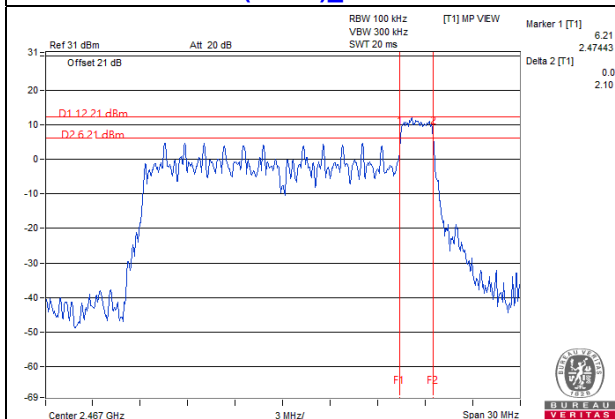
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	17.21	17.74	0.5	Pass
11	2462	17.19	17.42	0.5	Pass
12	2467	17.21	17.42	0.5	Pass
13	2472	17.19	17.42	0.5	Pass

Spectrum Plot of Worst Value

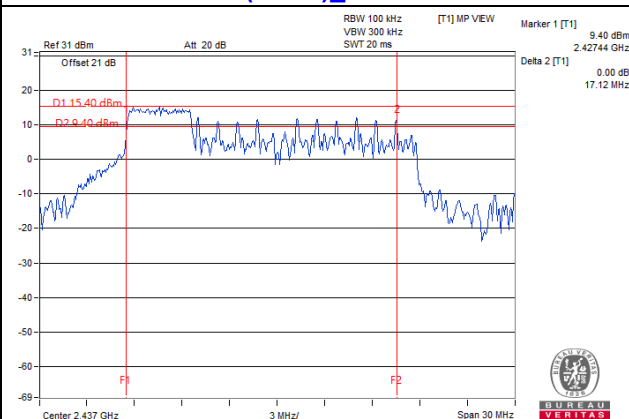


Spectrum Plot of Worst Value

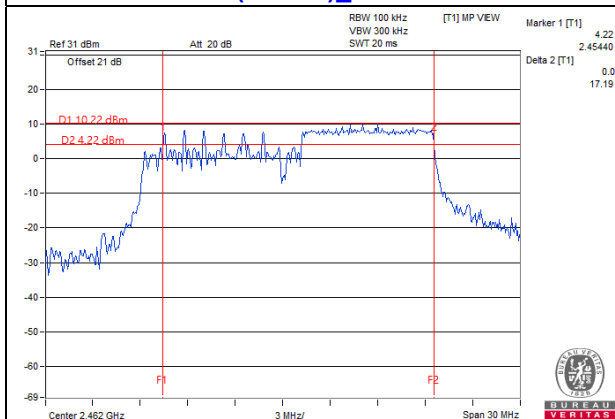
802.11ax (RU26)_Chain 1 / CH12



802.11ax (RU52)_Chain 0 / CH6



802.11ax (RU106)_Chain 0 / CH11



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,

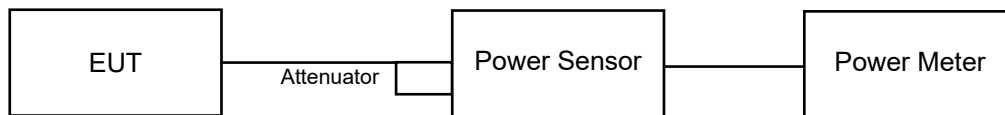
Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

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

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

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

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

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

Average power 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

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	23.45	23.32	436.093	26.40	30	Pass
6	2437	22.79	22.87	383.75	25.84	30	Pass
11	2462	22.53	20.47	290.49	24.63	30	Pass
12	2467	21.01	19.03	206.166	23.14	30	Pass
13	2472	19.10	16.89	130.148	21.14	30	Pass

802.11g

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	23.32	23.48	437.627	26.41	30	Pass
6	2437	25.75	25.37	720.187	28.57	30	Pass
11	2462	22.43	24.61	464.053	26.67	30	Pass
12	2467	19.99	22.06	260.464	24.16	30	Pass
13	2472	16.98	19.15	132.113	21.21	30	Pass

VHT20

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	23.63	23.69	464.558	26.67	30	Pass
6	2437	25.42	25.39	694.277	28.42	30	Pass
11	2462	22.39	23.57	400.89	26.03	30	Pass
12	2467	19.21	19.28	168.091	22.26	30	Pass
13	2472	15.02	15.20	64.882	18.12	30	Pass

VHT40

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
3	2422	21.43	21.24	272.041	24.35	30	Pass
6	2437	22.52	23.31	392.938	25.94	30	Pass
9	2452	21.17	21.21	263.048	24.20	30	Pass
10	2457	19.40	18.48	157.566	21.97	30	Pass
11	2462	16.14	16.73	88.213	19.46	30	Pass

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	23.87	24.02	496.129	26.96	30	Pass
6	2437	25.97	25.75	771.204	28.87	30	Pass
11	2462	22.65	23.79	423.409	26.27	30	Pass
12	2467	19.36	19.39	173.194	22.39	30	Pass
13	2472	16.25	16.84	90.476	19.57	30	Pass

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
3	2422	21.57	21.35	280.007	24.47	30	Pass
6	2437	22.80	22.61	372.936	25.72	30	Pass
9	2452	21.28	21.31	269.484	24.31	30	Pass
10	2457	19.54	18.62	162.728	22.11	30	Pass
11	2462	15.97	15.15	72.271	18.59	30	Pass

802.11ax (RU26)

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	24.21	25.18	593.243	27.73	30	Pass
11	2462	25.08	25.06	642.734	28.08	30	Pass
12	2467	22.93	24.21	459.969	26.63	30	Pass
13	2472	19.28	18.85	161.459	22.08	30	Pass

802.11ax (RU52)

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
6	2437	25.32	25.18	670.018	28.26	30	Pass

802.11ax (RU106)

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	25.21	25.14	658.482	28.19	30	Pass
11	2462	25.14	25.10	650.181	28.13	30	Pass
12	2467	24.62	22.67	474.661	26.76	30	Pass
13	2472	19.73	20.22	199.169	22.99	30	Pass

FOR AVERAGE POWER

802.11b

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
1	2412	21.12	20.98	254.734	24.06
6	2437	20.44	20.53	223.642	23.50
11	2462	20.11	20.02	203.027	23.08
12	2467	18.60	18.50	143.238	21.56
13	2472	16.70	16.56	92.063	19.64

802.11g

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
1	2412	17.45	17.37	110.166	20.42
6	2437	20.74	20.85	240.195	23.81
11	2462	17.48	18.33	124.053	20.94
12	2467	15.02	15.78	69.613	18.43
13	2472	11.92	12.90	35.058	15.45

VHT20

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
1	2412	17.40	17.68	113.568	20.55
6	2437	20.14	20.31	210.675	23.24
11	2462	17.19	18.14	117.523	20.70
12	2467	13.81	13.79	47.977	16.81
13	2472	9.92	9.93	19.658	12.94

VHT40

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
3	2422	15.95	15.93	78.529	18.95
6	2437	17.41	17.43	110.416	20.43
9	2452	16.02	16.08	80.545	19.06
10	2457	13.40	13.30	43.257	16.36
11	2462	9.99	10.45	21.069	13.24

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
1	2412	17.62	17.75	117.376	20.70
6	2437	20.19	20.59	219.023	23.40
11	2462	17.50	18.32	124.154	20.94
12	2467	13.98	13.96	49.892	16.98
13	2472	10.10	10.56	21.609	13.35

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
3	2422	16.05	16.03	80.358	19.05
6	2437	17.57	17.61	114.825	20.60
9	2452	16.17	16.21	83.183	19.20
10	2457	13.56	13.46	44.881	16.52
11	2462	10.08	10.10	20.419	13.10

802.11ax (RU26)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
1	2412	16.97	16.75	97.089	19.87
11	2462	16.69	17.42	101.874	20.08
12	2467	14.27	14.69	56.174	17.50
13	2472	11.20	11.61	27.67	14.42

802.11ax (RU52)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
6	2437	20.71	20.02	218.222	23.39

802.11ax (RU106)

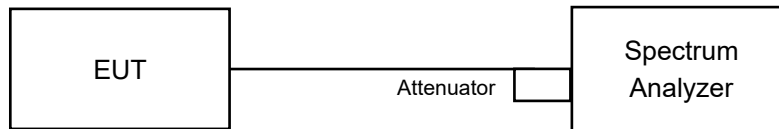
Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
1	2412	17.94	17.79	122.347	20.88
11	2462	17.54	18.60	129.198	21.11
12	2467	15.90	14.72	68.553	18.36
13	2472	11.77	12.05	31.064	14.92

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

- Set analyzer center frequency to DTS channel center frequency.
- Set the span to 1.5 times the DTS bandwidth.
- Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- Set the VBW $\geq 3 \times \text{RBW}$.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- 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

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Pass / Fail
		Chain 0	Chain 1			
1	2412	-0.91	-0.70	2.21	7.81	Pass
6	2437	-1.36	-0.81	1.93	7.81	Pass
11	2462	-0.93	-1.74	1.69	7.81	Pass
12	2467	-1.80	-3.34	0.51	7.81	Pass
13	2472	-5.10	-4.55	-1.81	7.81	Pass

Note: The directional gain = 3.18 dBi + 10log(2) = 6.19 dBi > 6dBi , so the power density limit shall be reduced to 8-(6.19-6) = 7.81 dBm.

802.11g

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Pass / Fail
		Chain 0	Chain 1			
1	2412	-5.00	-7.13	-2.93	7.81	Pass
6	2437	-2.71	-3.51	-0.08	7.81	Pass
11	2462	-6.23	-5.05	-2.59	7.81	Pass
12	2467	-8.96	-8.33	-5.62	7.81	Pass
13	2472	-12.75	-10.65	-8.56	7.81	Pass

Note: The directional gain = 3.18 dBi + 10log(2) = 6.19 dBi > 6dBi , so the power density limit shall be reduced to 8-(6.19-6) = 7.81 dBm.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Pass / Fail
		Chain 0	Chain 1			
1	2412	-7.15	-7.77	-4.44	7.81	Pass
6	2437	-5.74	-5.78	-2.75	7.81	Pass
11	2462	-8.24	-7.38	-4.78	7.81	Pass
12	2467	-10.53	-11.15	-7.82	7.81	Pass
13	2472	-15.15	-13.63	-11.31	7.81	Pass

Note: The directional gain = 3.18 dBi + 10log(2) = 6.19 dBi > 6dBi , so the power density limit shall be reduced to 8-(6.19-6) = 7.81 dBm.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Pass / Fail
		Chain 0	Chain 1			
3	2422	-11.03	-11.66	-8.32	7.81	Pass
6	2437	-10.30	-9.20	-6.71	7.81	Pass
9	2452	-12.77	-12.60	-9.67	7.81	Pass
10	2457	-14.06	-12.54	-10.22	7.81	Pass
11	2462	-17.27	-16.56	-13.89	7.81	Pass

Note: The directional gain = 3.18 dBi + 10log(2) = 6.19 dBi > 6dBi , so the power density limit shall be reduced to 8-(6.19-6) = 7.81 dBm.

802.11ax (RU26)

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Pass / Fail
		Chain 0	Chain 1			
1	2412	2.51	1.56	5.07	7.81	Pass
11	2462	0.75	2.81	4.91	7.81	Pass
12	2467	0.04	-0.07	3.00	7.81	Pass
13	2472	-3.97	-3.69	-0.82	7.81	Pass

Note: The directional gain = $3.18 \text{ dBi} + 10\log(2) = 6.19 \text{ dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $8-(6.19-6) = 7.81 \text{ dBm}$.

802.11ax (RU52)

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Pass / Fail
		Chain 0	Chain 1			
6	2437	2.01	2.54	5.29	7.81	Pass

Note: The directional gain = $3.18 \text{ dBi} + 10\log(2) = 6.19 \text{ dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $8-(6.19-6) = 7.81 \text{ dBm}$.

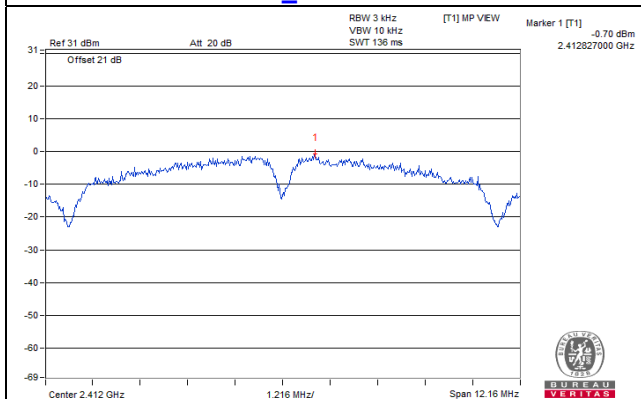
802.11ax (RU106)

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Pass / Fail
		Chain 0	Chain 1			
1	2412	-1.68	-2.82	0.80	7.81	Pass
11	2462	-3.08	-2.41	0.28	7.81	Pass
12	2467	-5.15	-4.92	-2.02	7.81	Pass
13	2472	-8.68	-8.59	-5.62	7.81	Pass

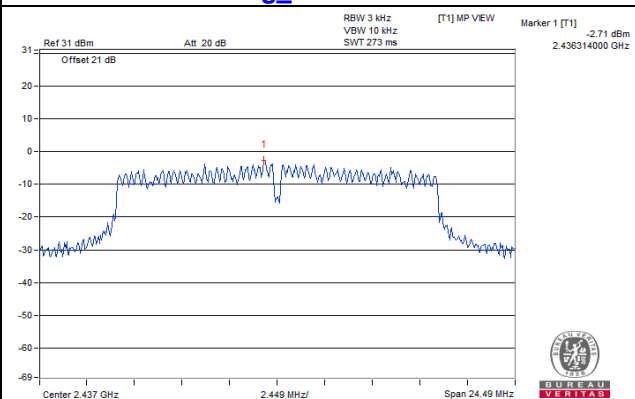
Note: The directional gain = $3.18 \text{ dBi} + 10\log(2) = 6.19 \text{ dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $8-(6.19-6) = 7.81 \text{ dBm}$.

Spectrum Plot of Worst Value

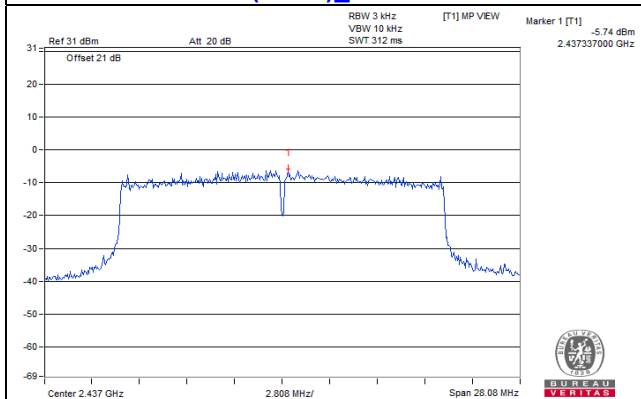
802.11b_Chain 1 / CH1



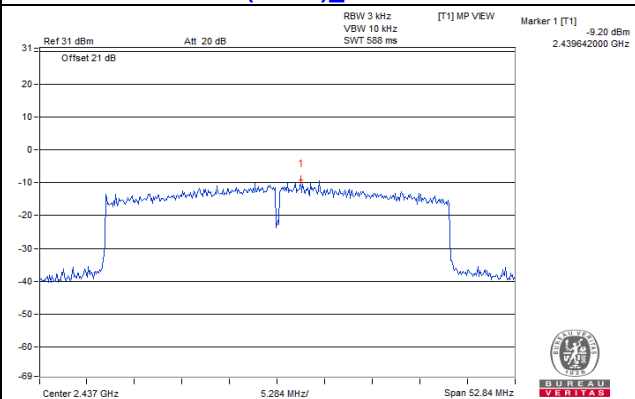
802.11g_Chain 0 / CH6



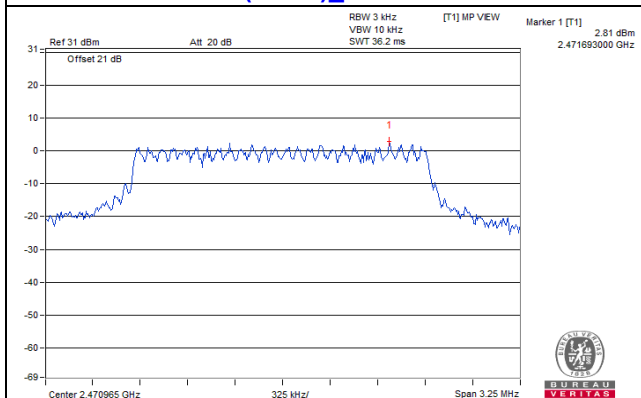
802.11ax (HE20)_Chain 0 / CH6



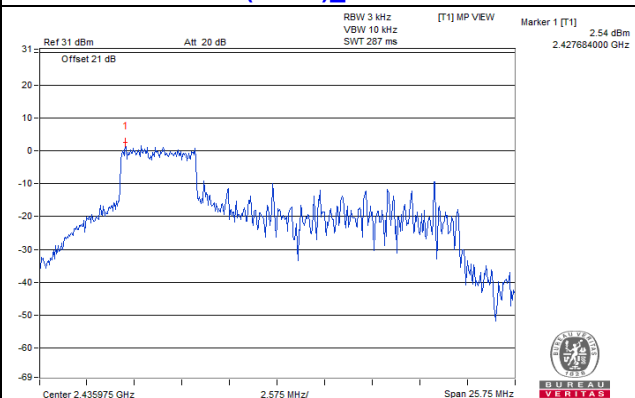
802.11ax (HE40)_Chain 1 / CH6



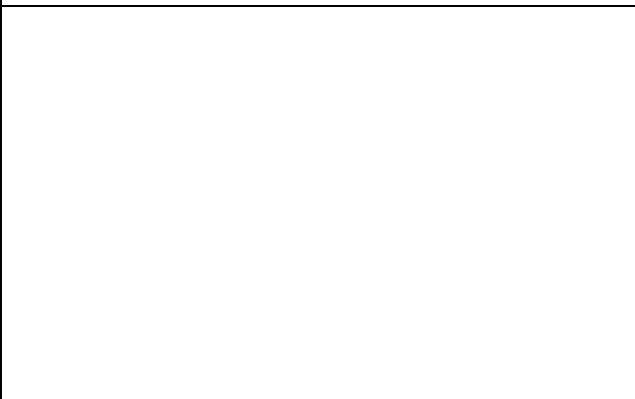
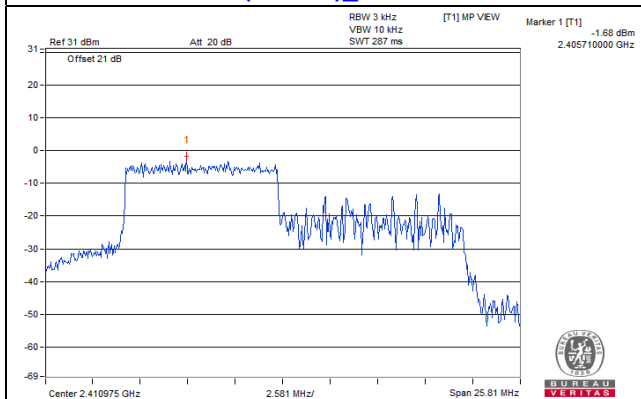
802.11ax (RU26)_Chain 1 / CH11



802.11ax (RU52)_Chain 1 / CH6



802.11ax (RU106)_Chain 0 / CH1

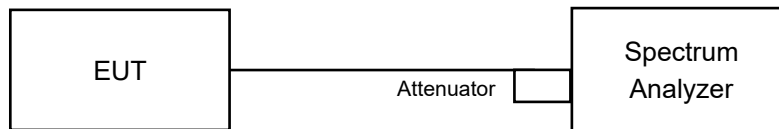


4.6 Conducted Out of Band Emission Measurement

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

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

MEASUREMENT PROCEDURE OOB

1. Set RBW = 100 kHz.
2. Set VBW $\geq$ 300 kHz.
3. Detector = peak.
4. Sweep = auto couple.
5. Trace Mode = max hold.
6. Allow trace to fully stabilize.
7. 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

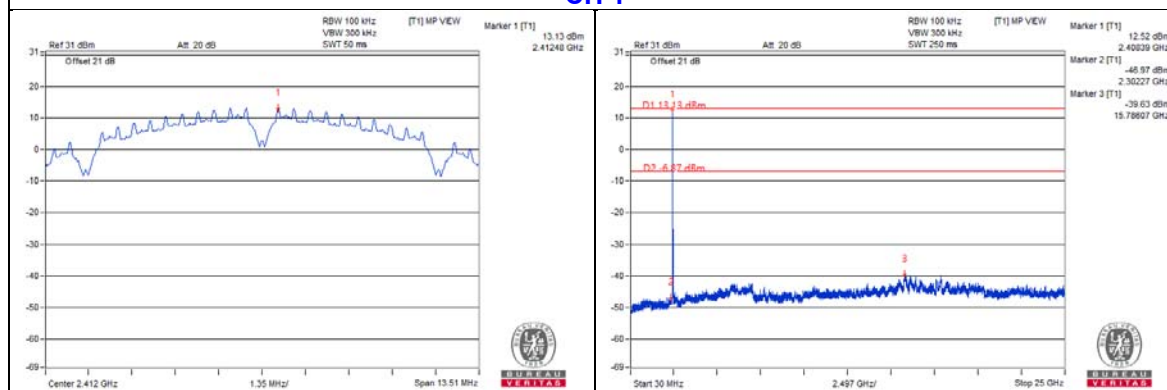
Same as Item 4.3.6

4.6.7 Test Results

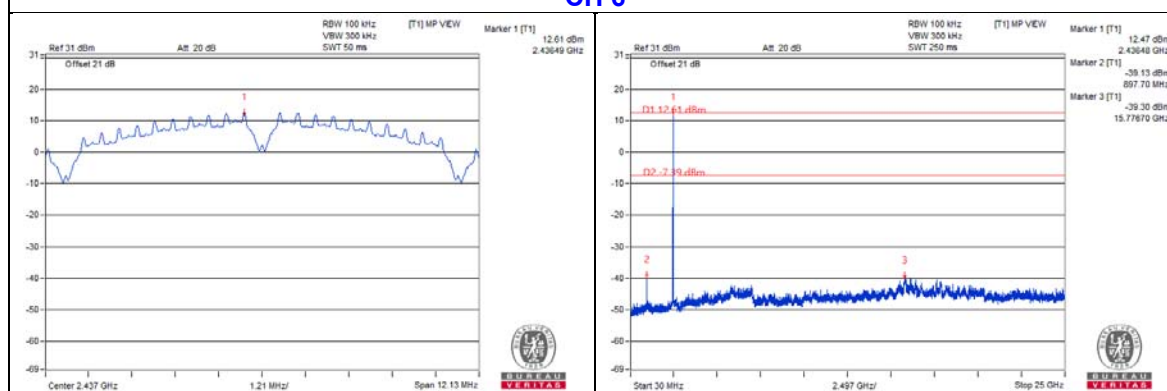
The spectrum plots are attached on the following pages. D1 line indicates the highest level, and D2 line indicates the 20dB offset below D1. It shows compliance with the requirement.

802.11b Chain 0

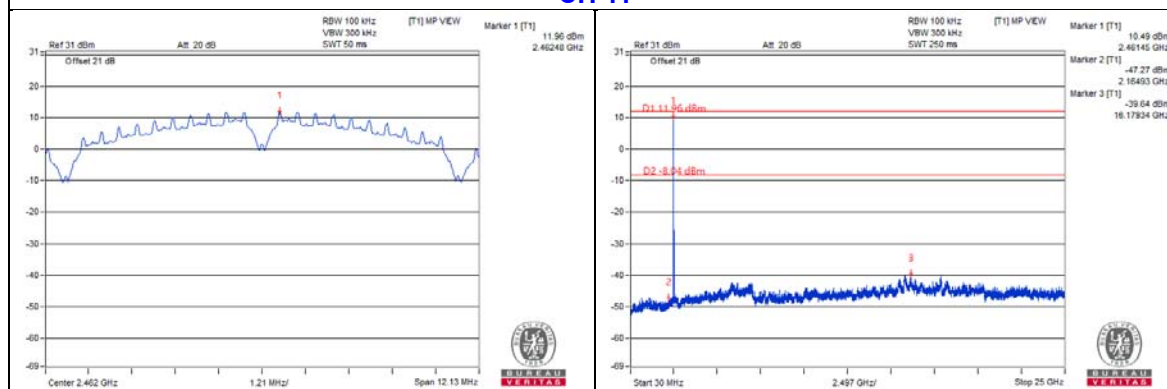
CH 1



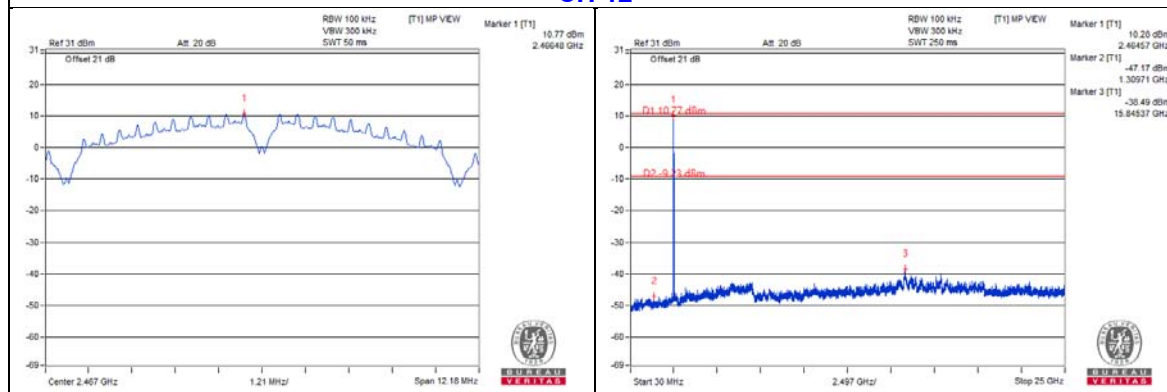
CH 6



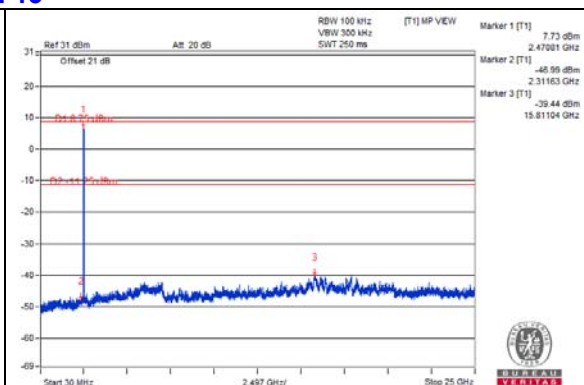
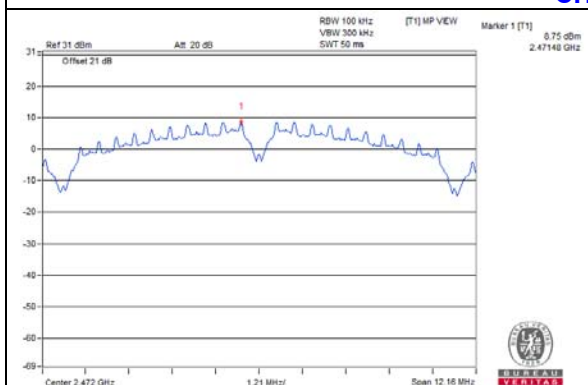
CH 11



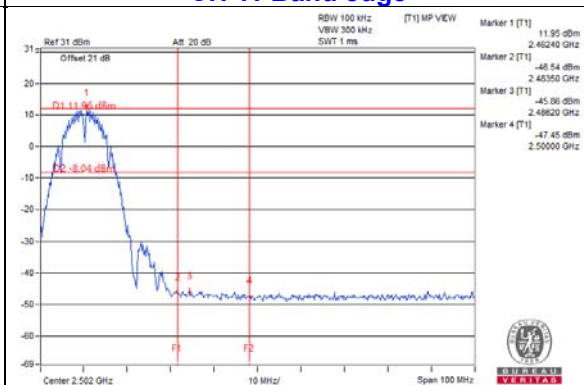
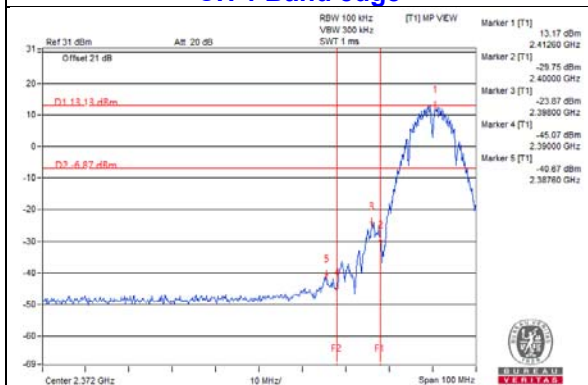
CH 12



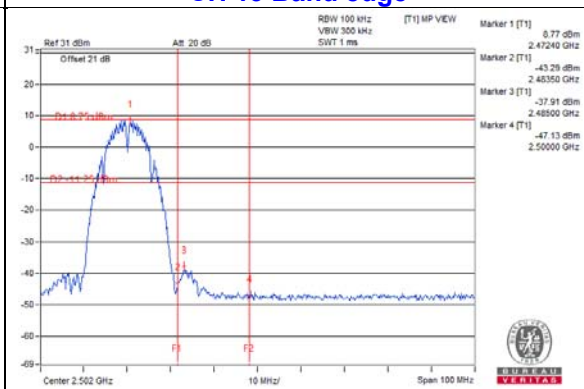
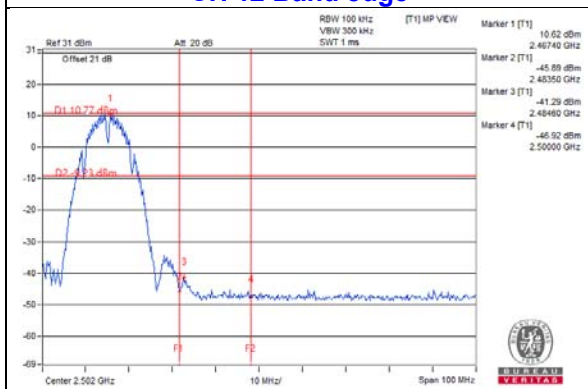
CH 13



CH 1 Band edge



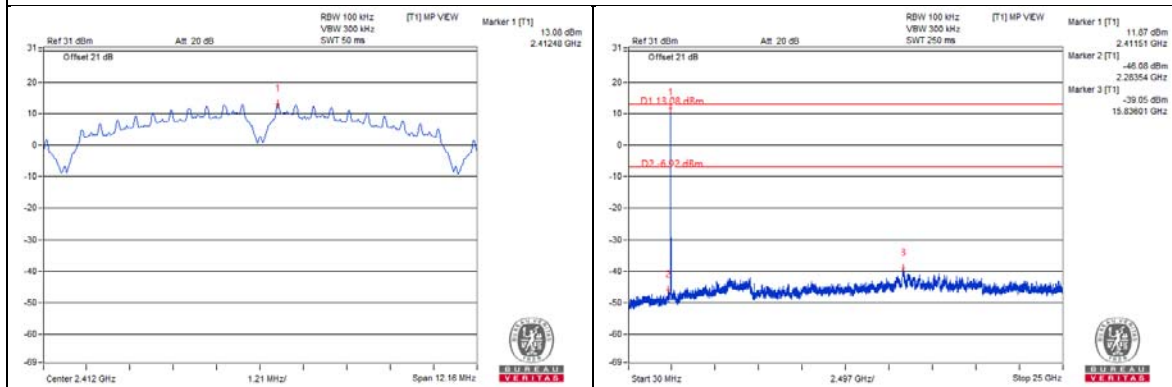
CH 12 Band edge



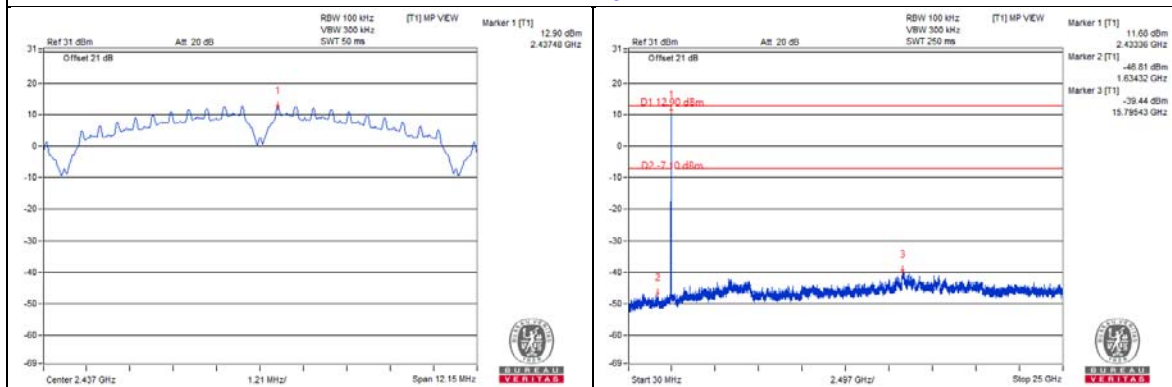
CH 13 Band edge

Chain 1

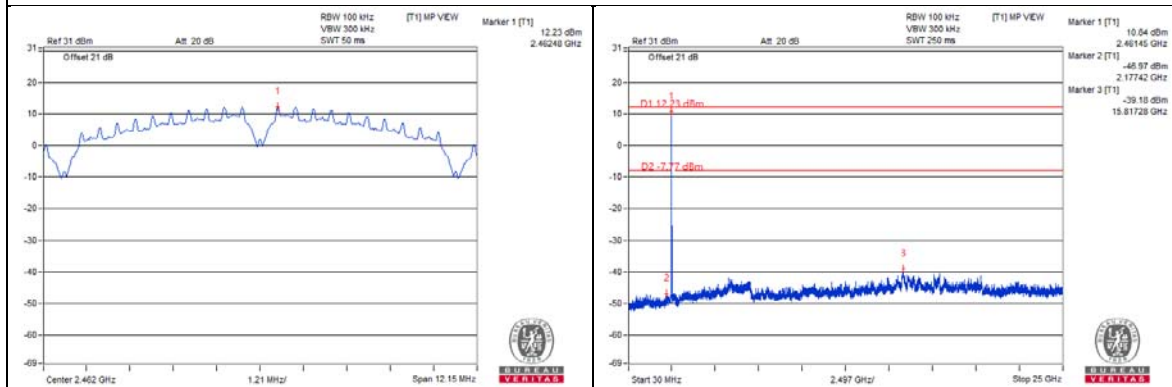
CH 1



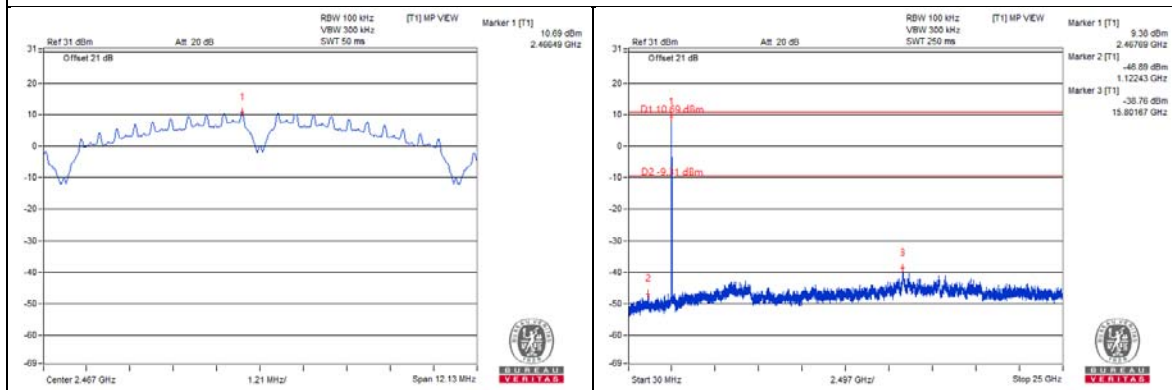
CH 6



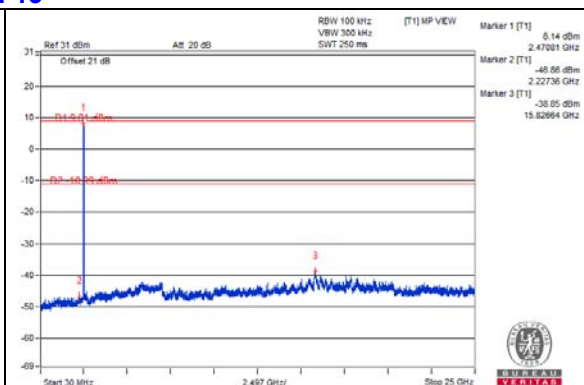
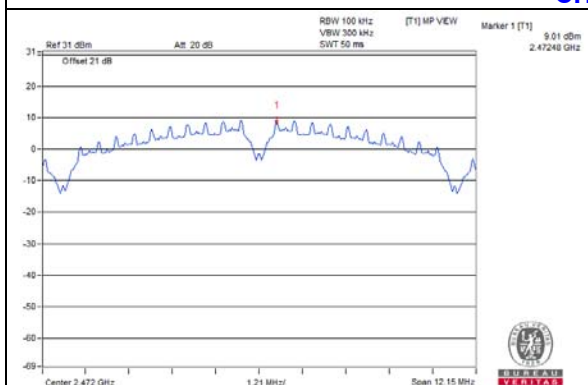
CH 11



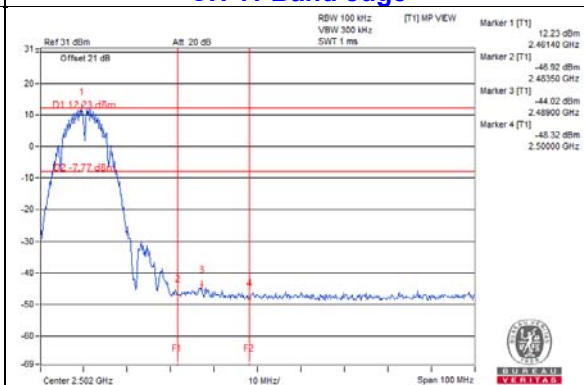
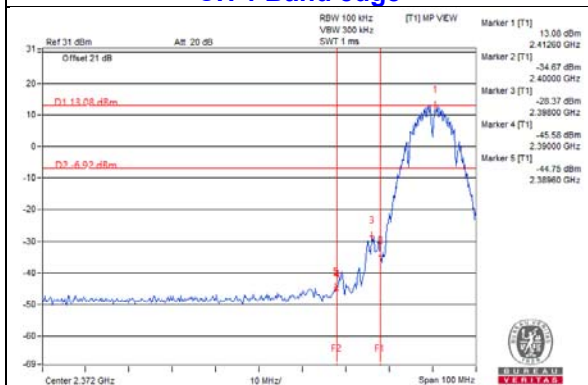
CH 12



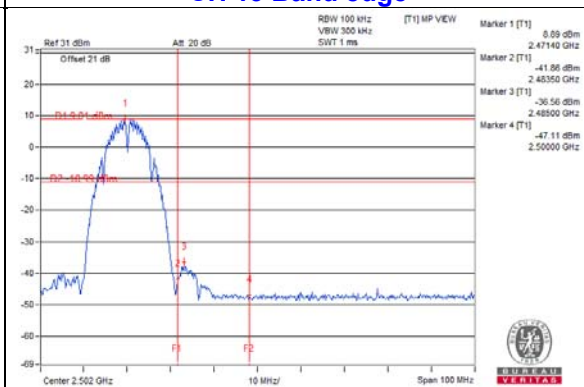
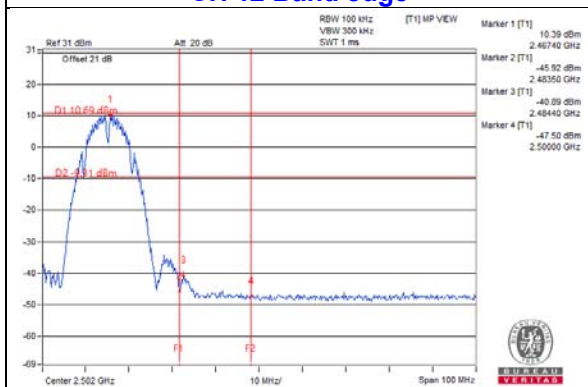
CH 13



CH 1 Band edge

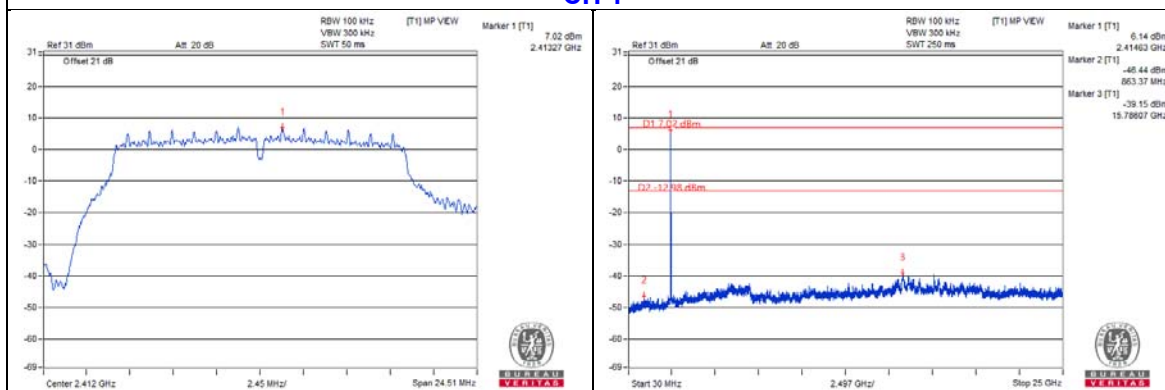


CH 12 Band edge

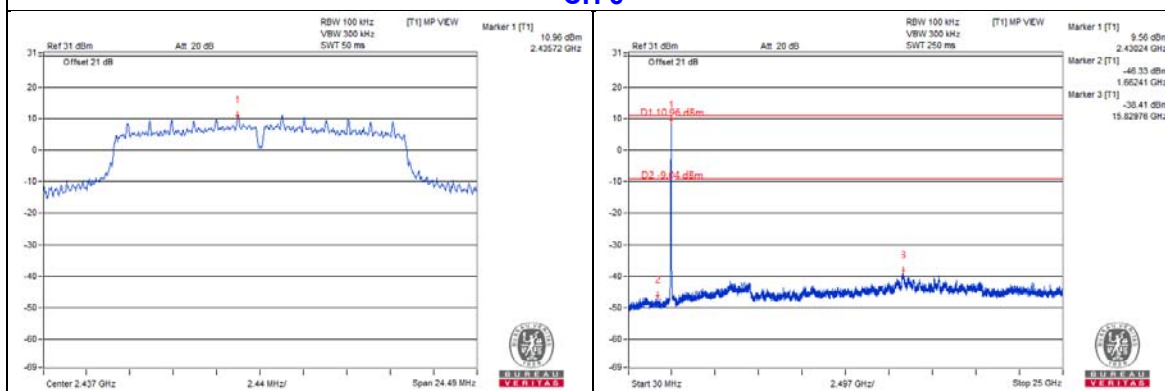


802.11g
Chain 0

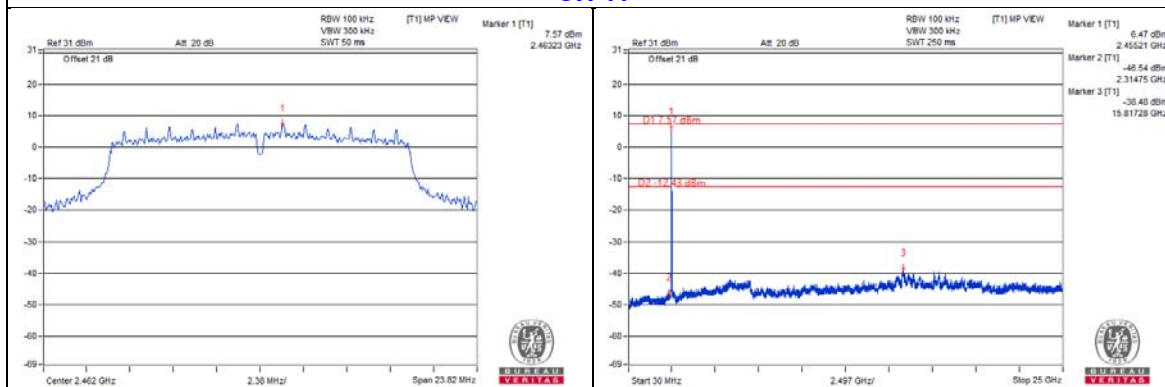
CH 1



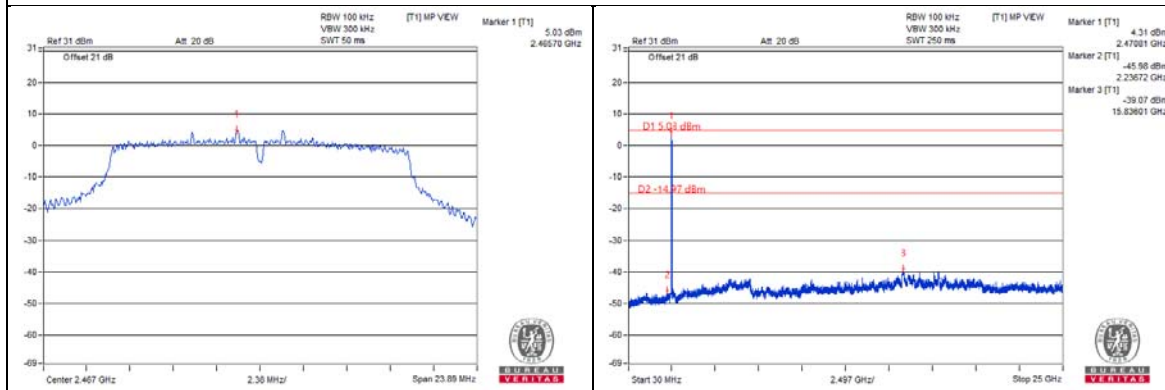
CH 6



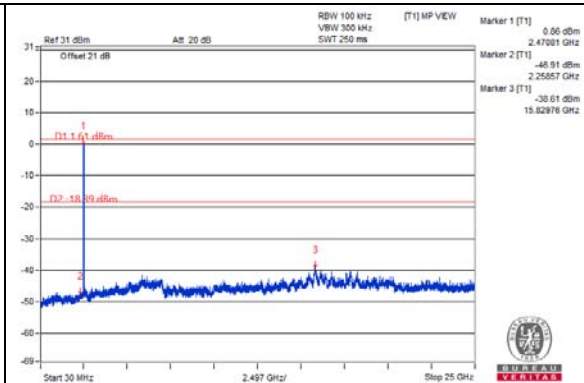
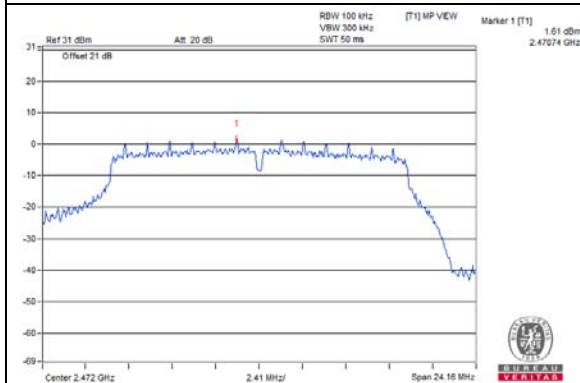
CH 11



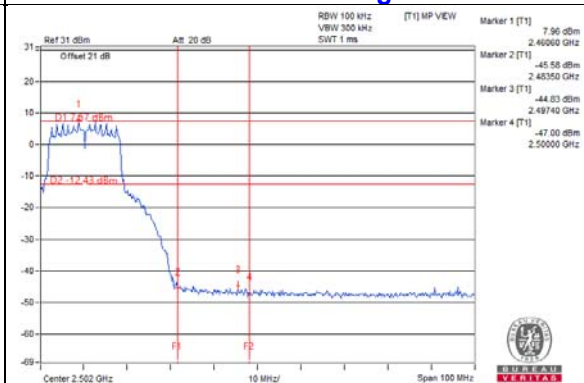
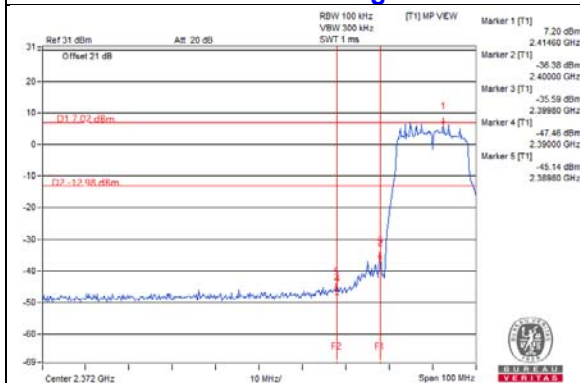
CH 12



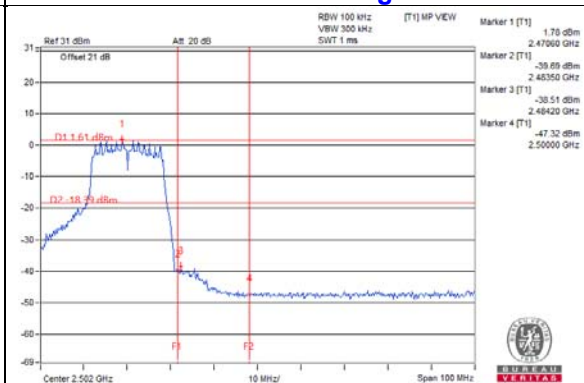
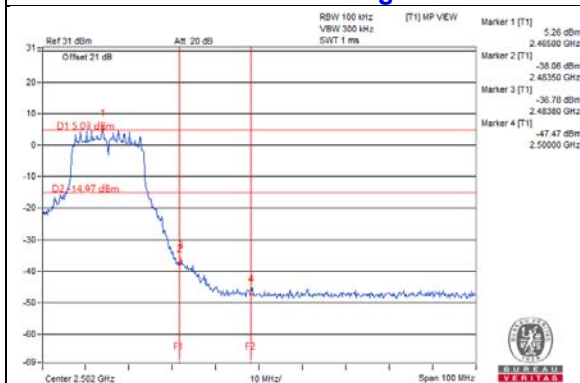
CH 13



CH 1 Band edge



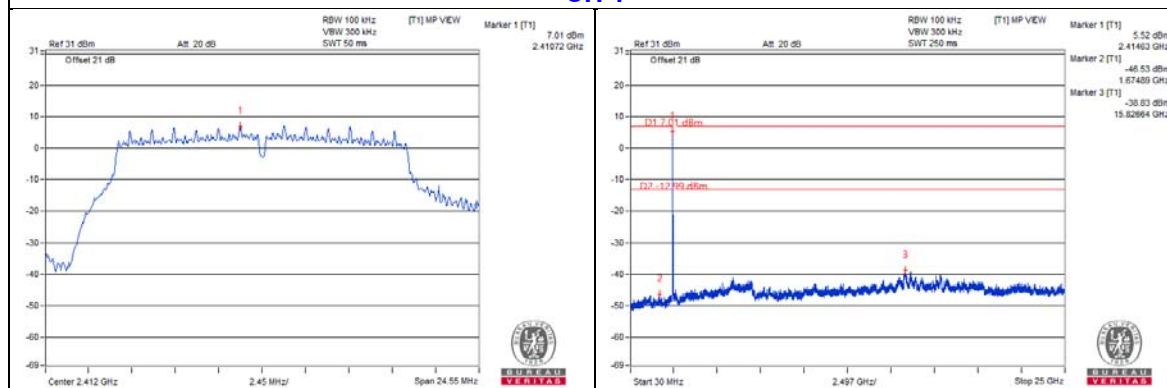
CH 12 Band edge



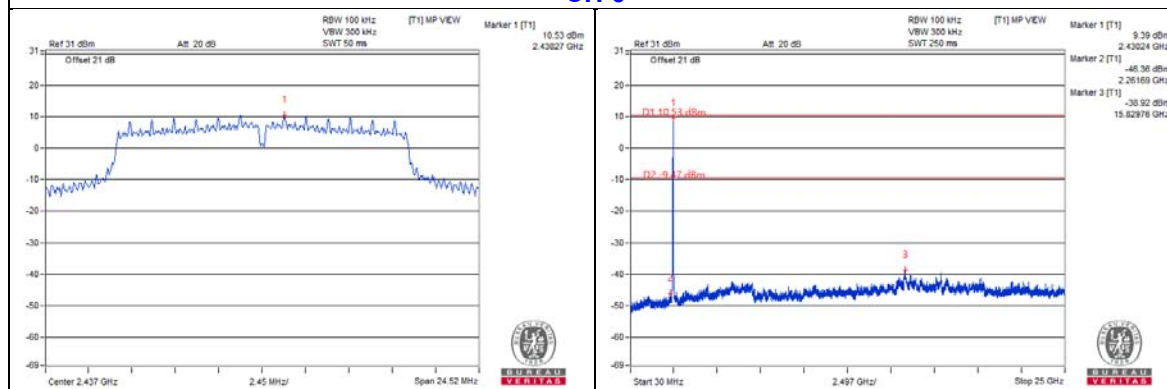
CH 13 Band edge

Chain 1

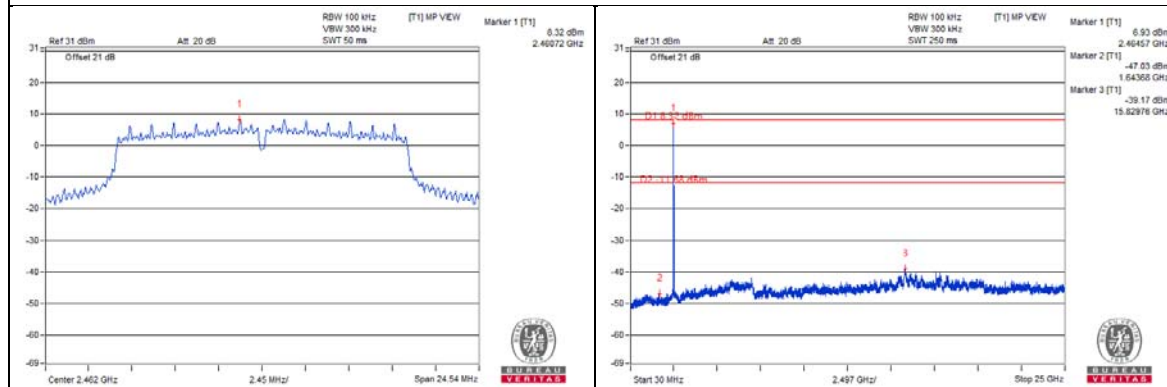
CH 1



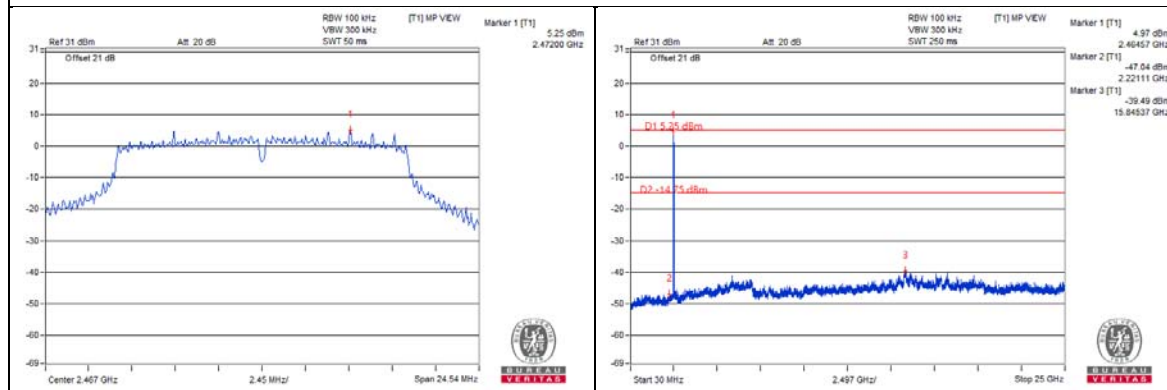
CH 6



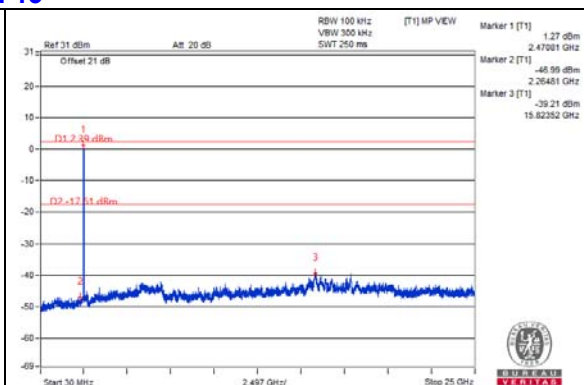
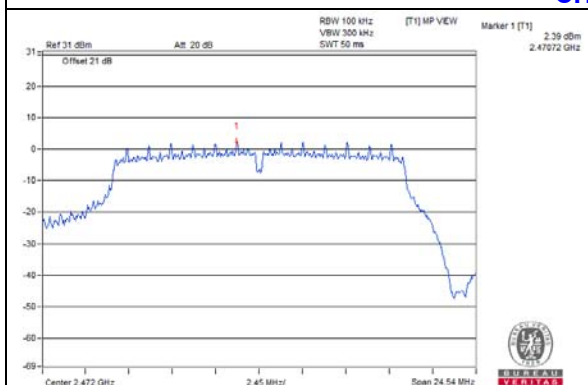
CH 11



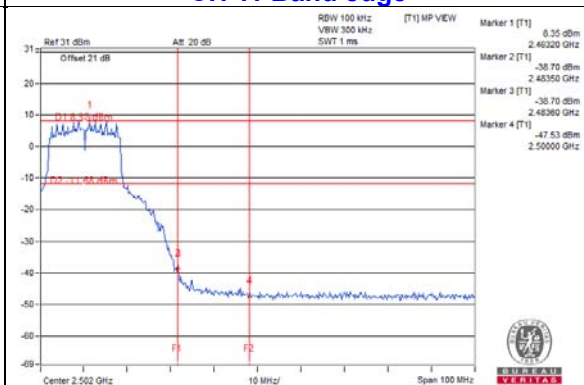
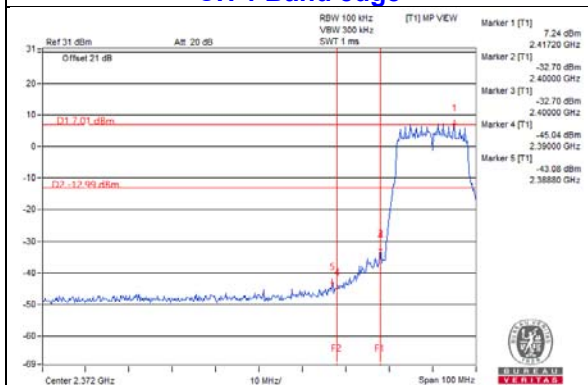
CH 12



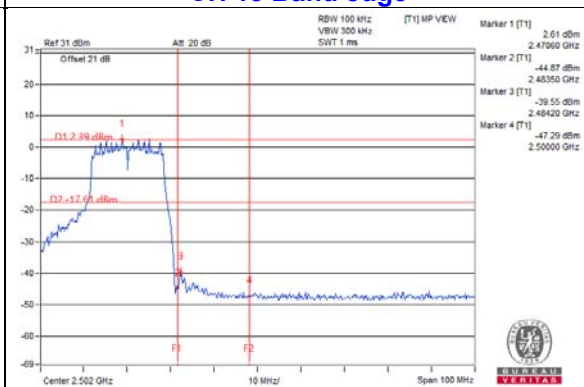
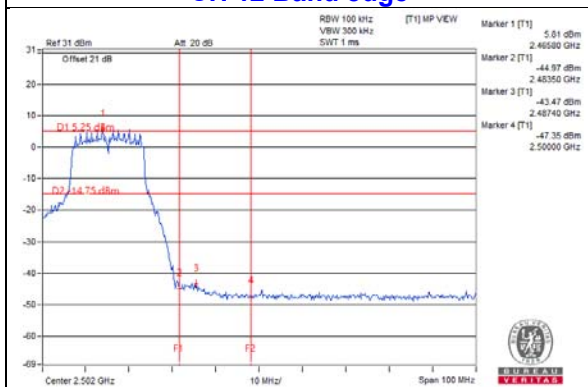
CH 13



CH 1 Band edge



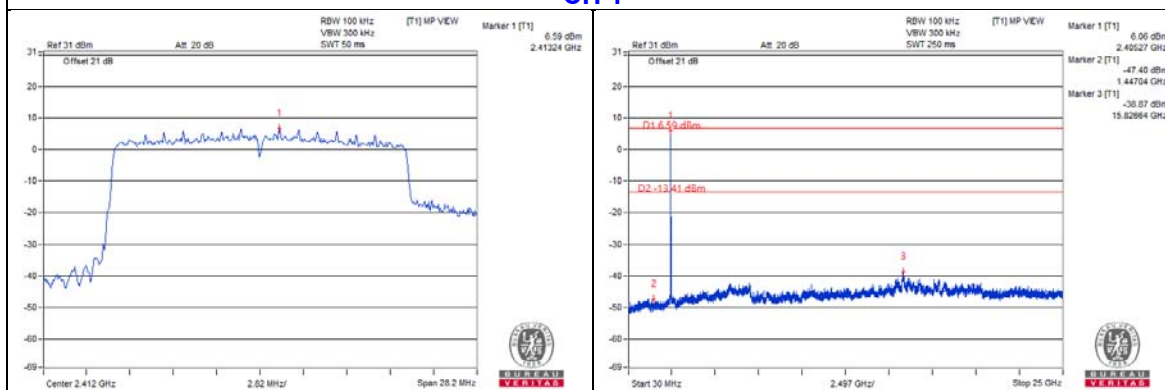
CH 12 Band edge



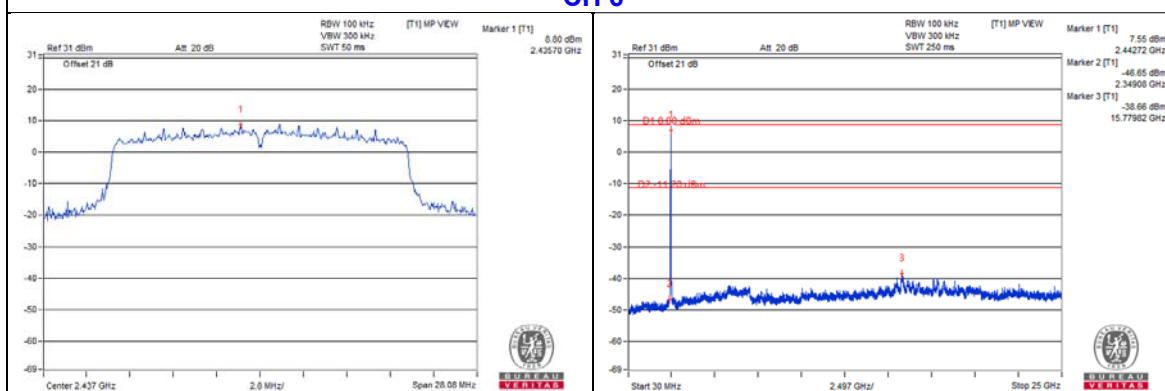
802.11ax (HE20)

Chain 0

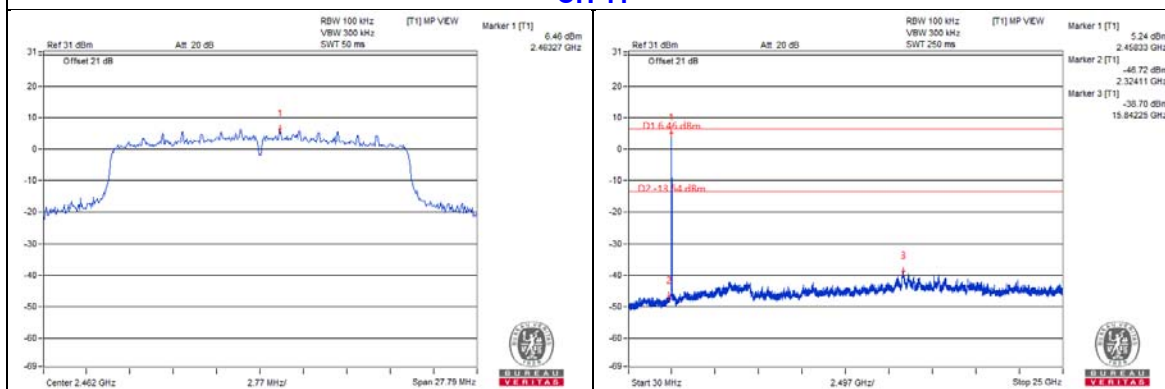
CH 1



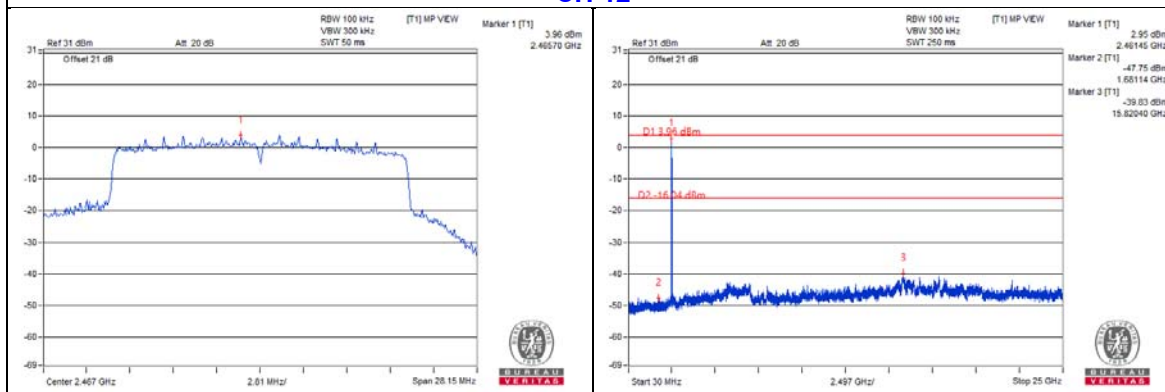
CH 6



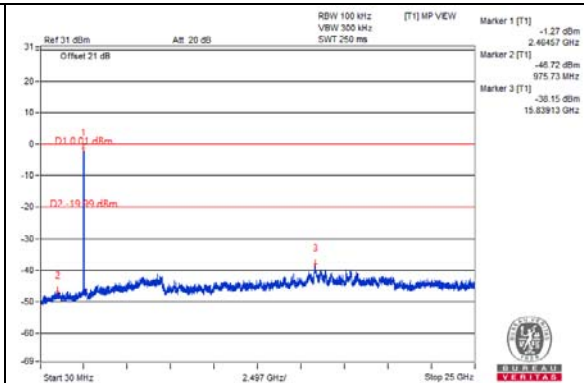
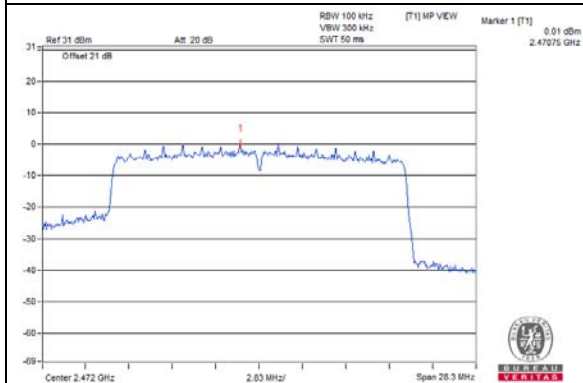
CH 11



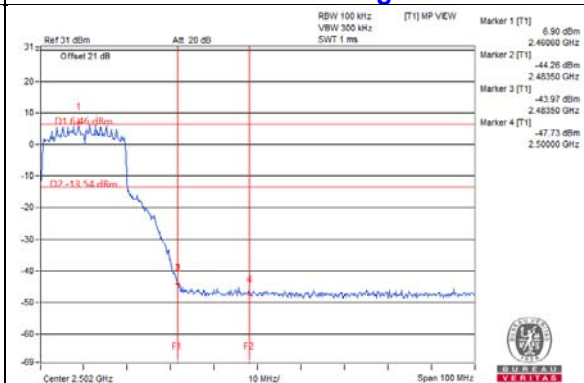
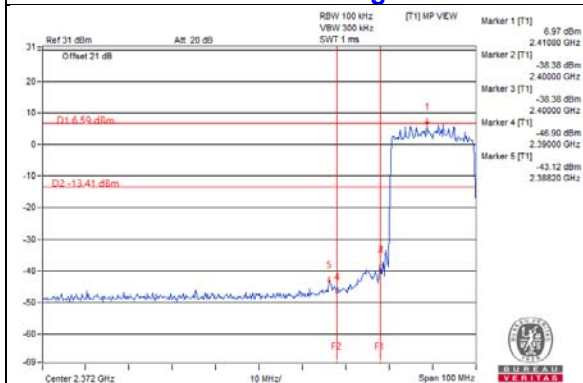
CH 12



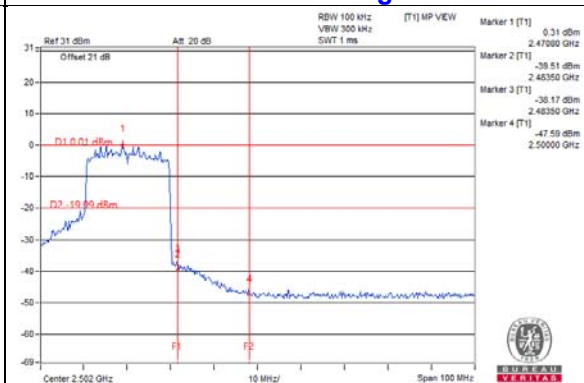
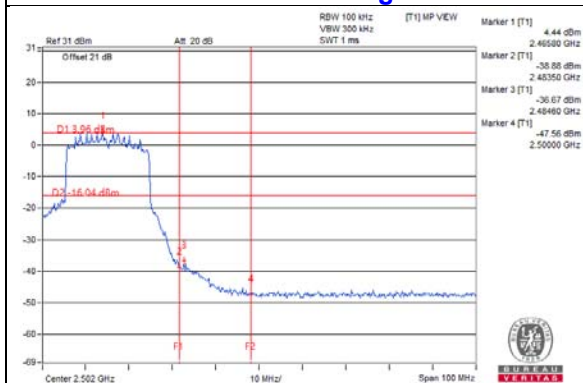
CH 13



CH 1 Band edge

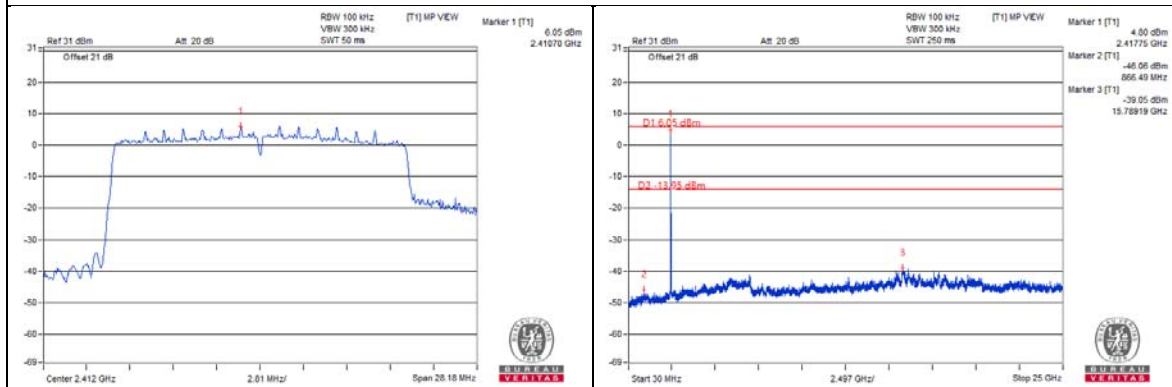


CH 12 Band edge

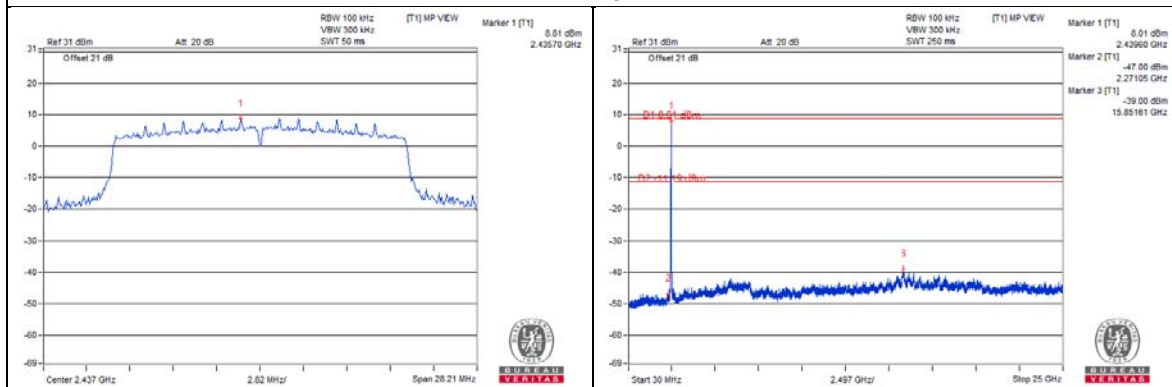


Chain 1

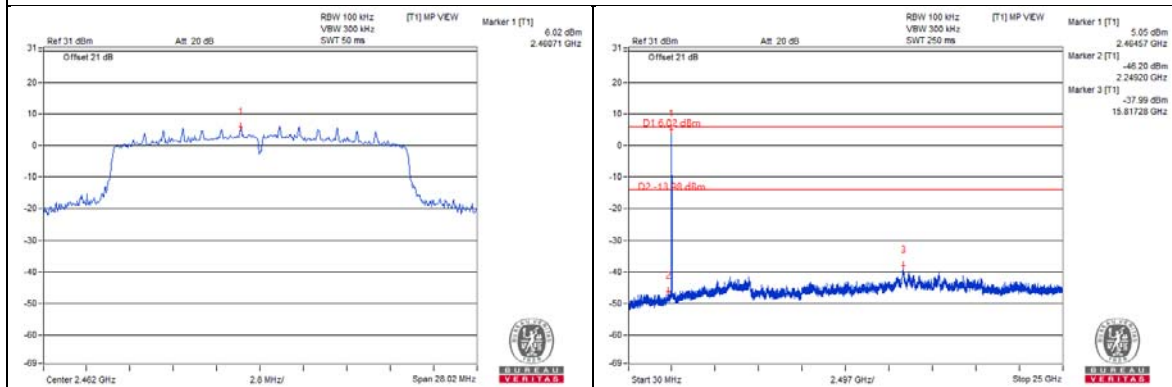
CH 1



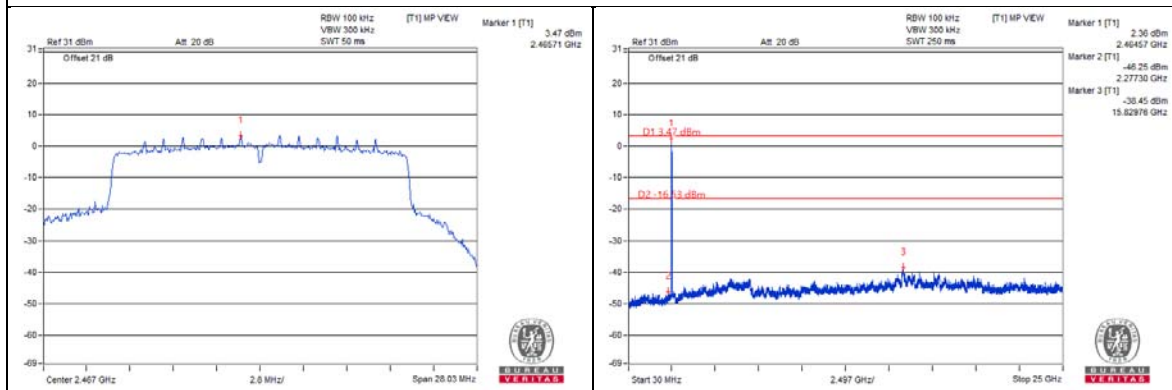
CH 6



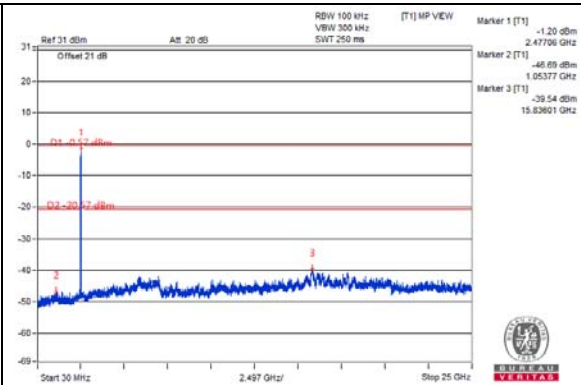
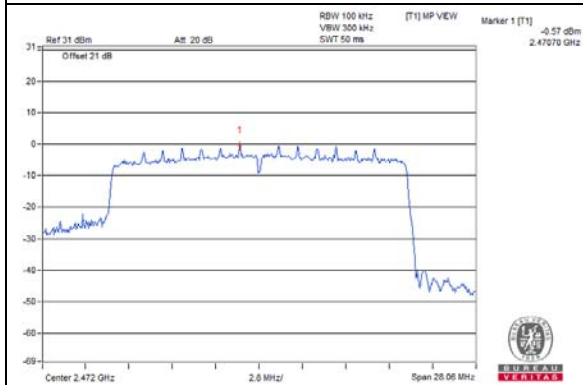
CH 11



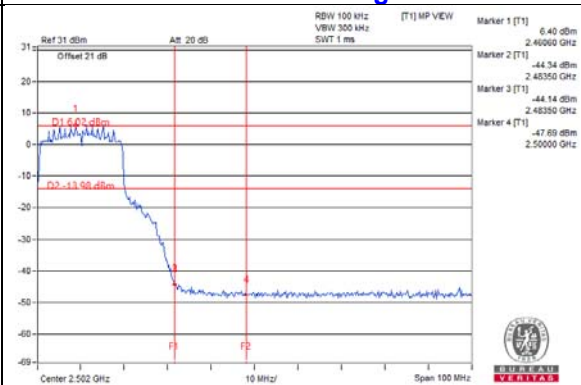
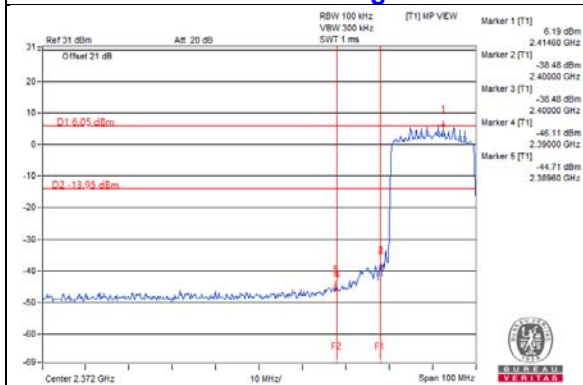
CH 12



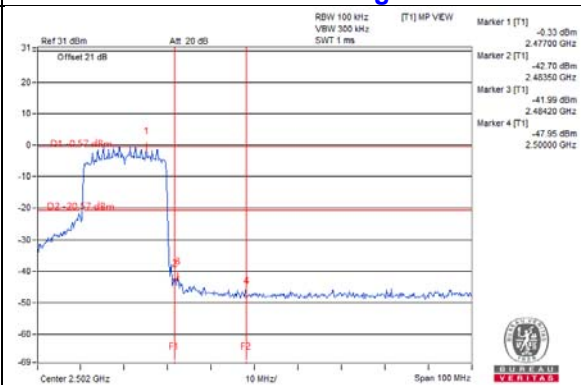
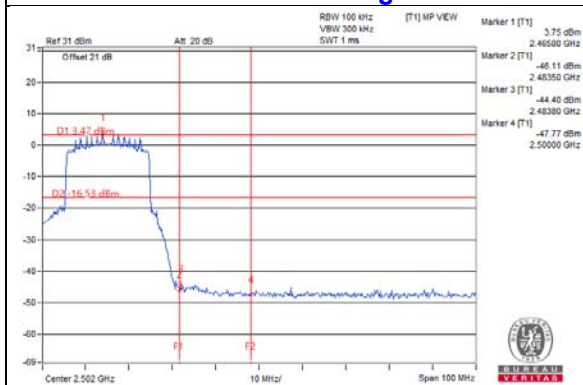
CH 13



CH 1 Band edge



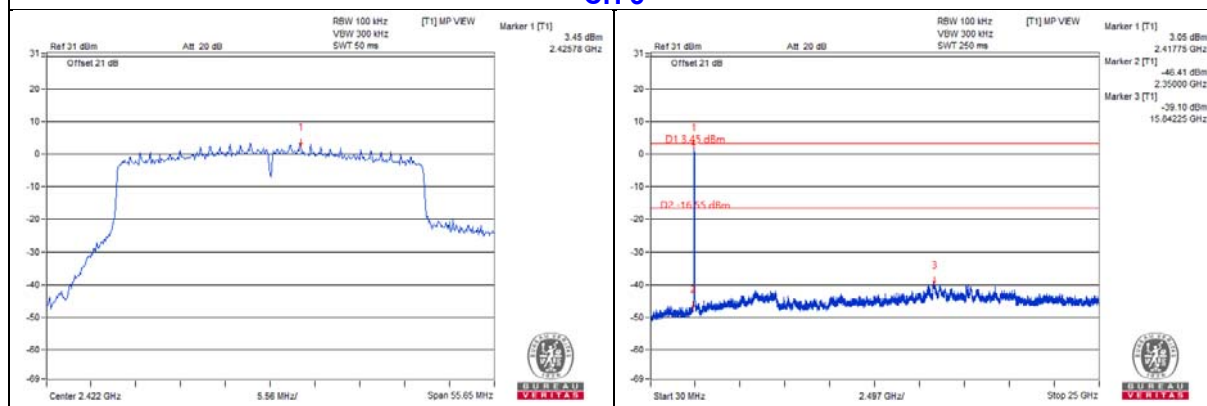
CH 12 Band edge



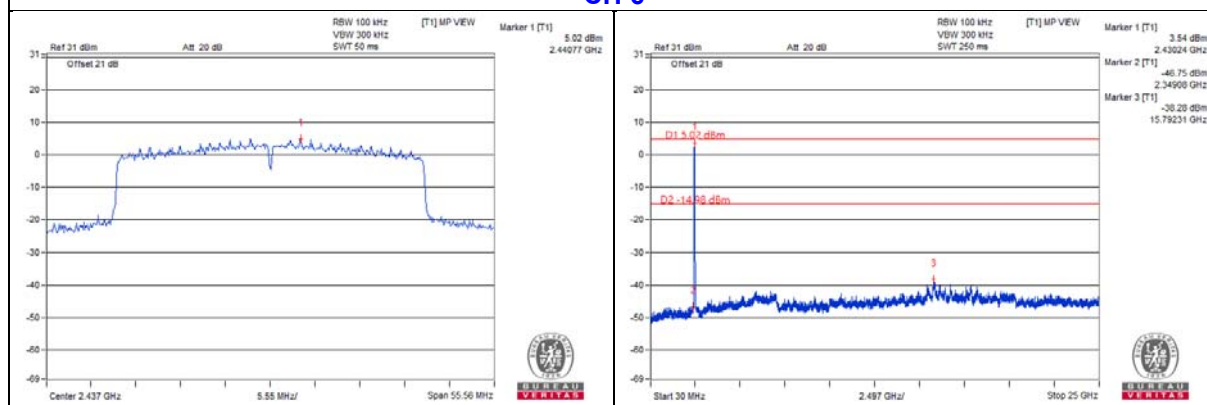
802.11ax (HE40)

Chain 0

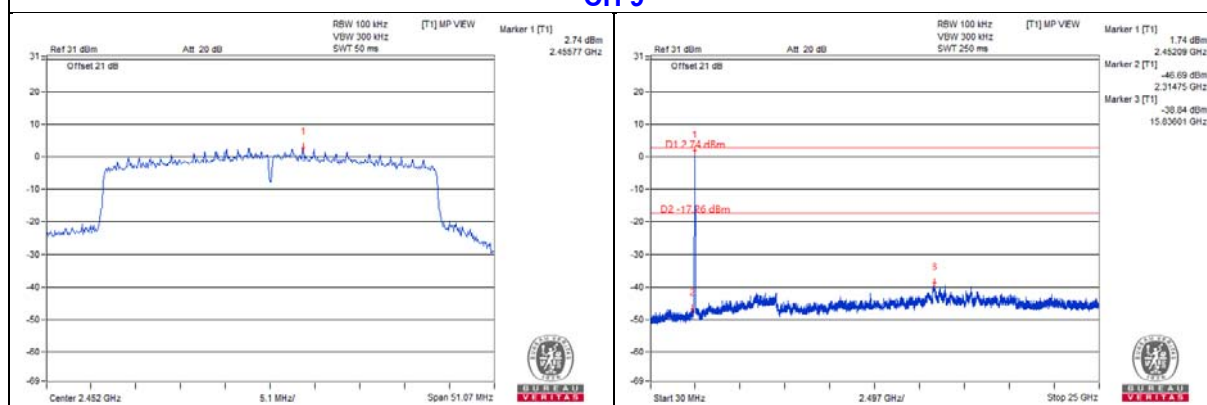
CH 3



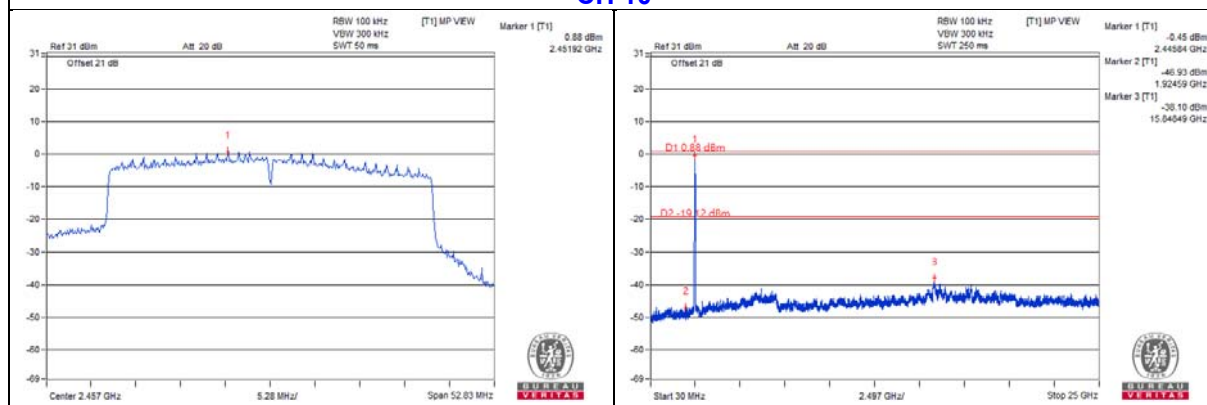
CH 6



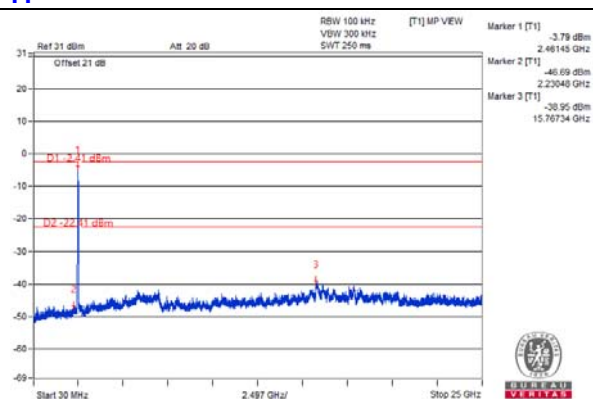
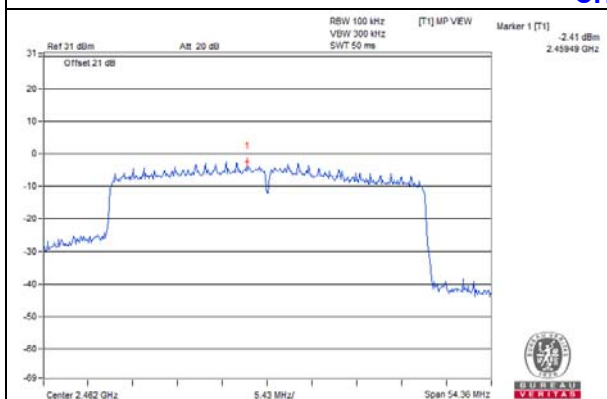
CH 9



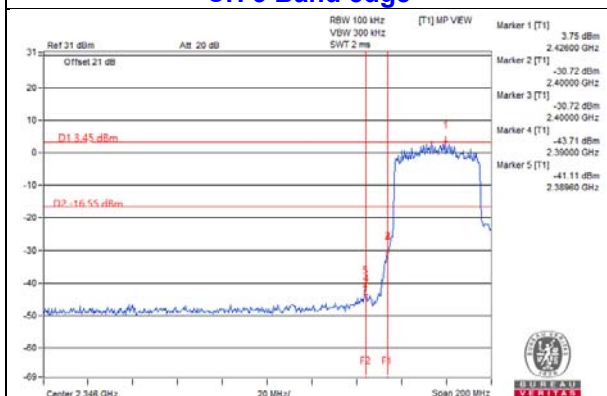
CH 10



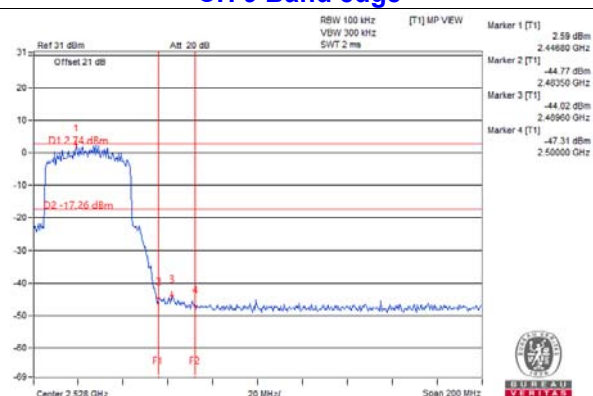
CH 11



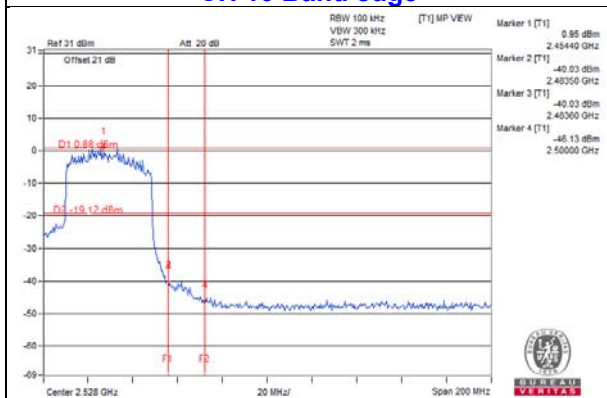
CH 3 Band edge



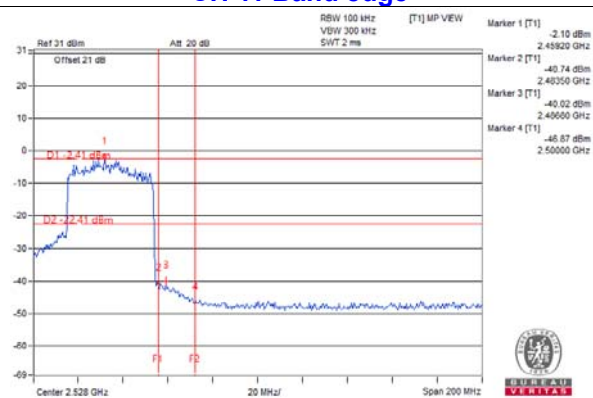
CH 9 Band edge



CH 10 Band edge

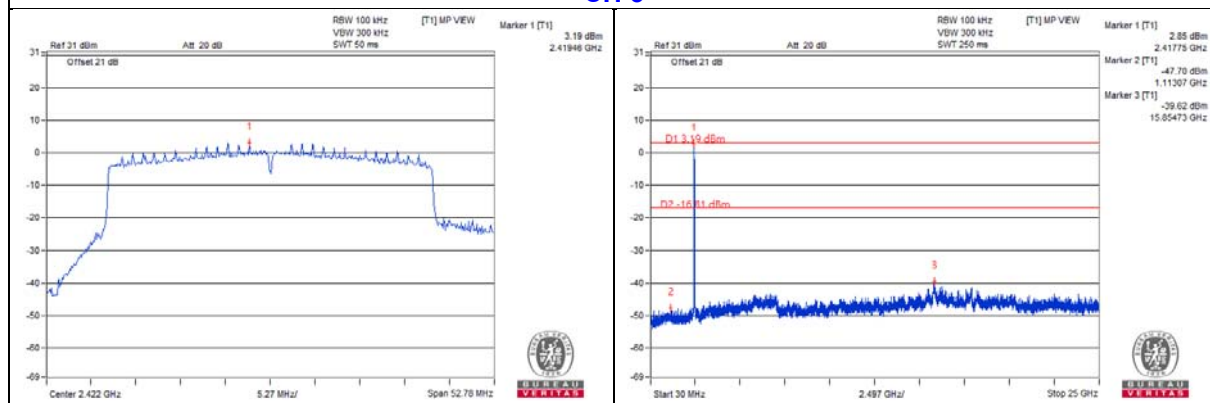


CH 11 Band edge

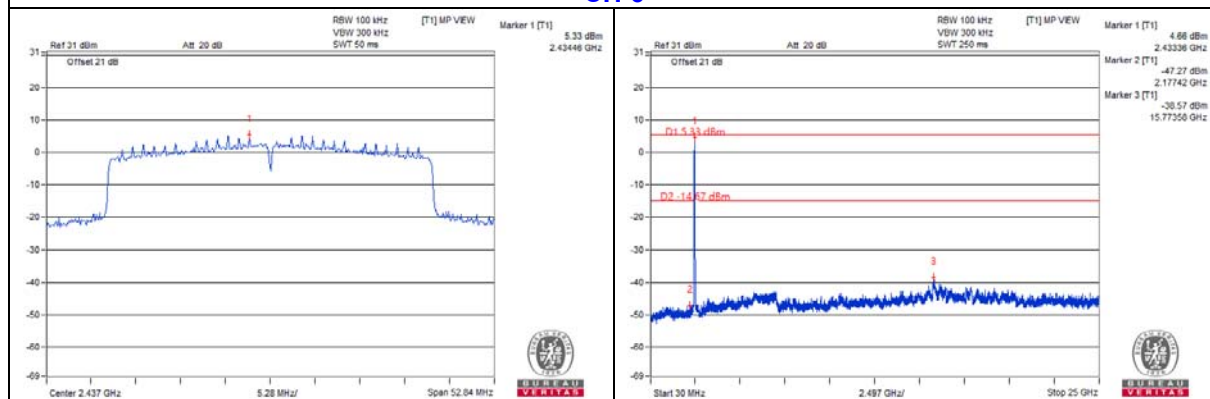


Chain 1

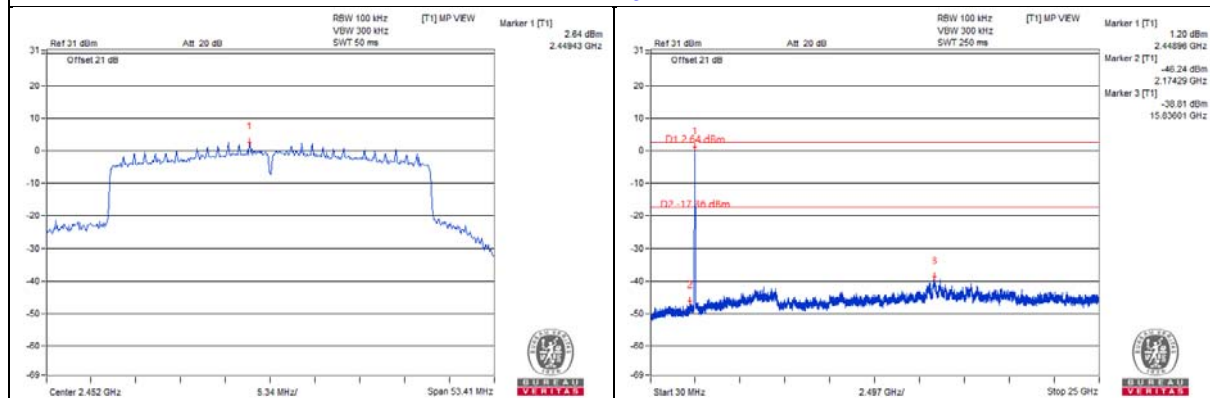
CH 3



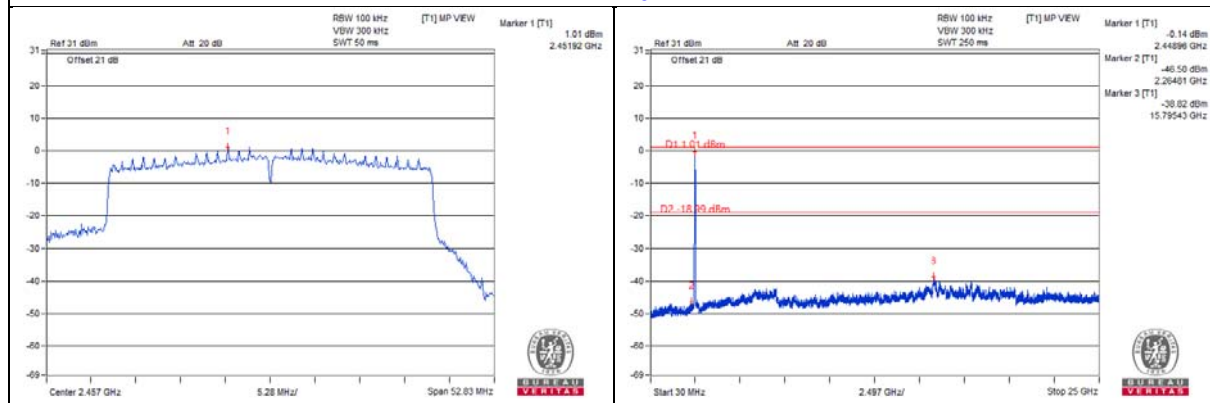
CH 6



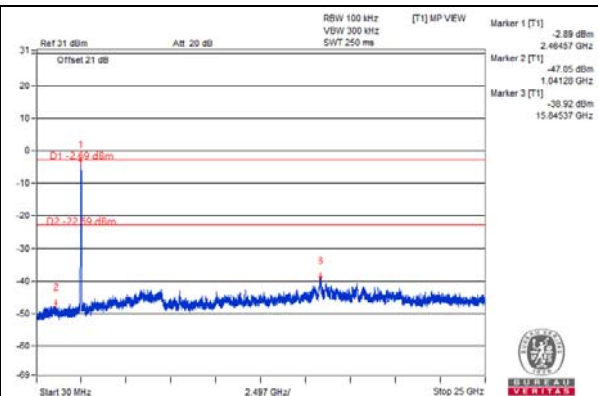
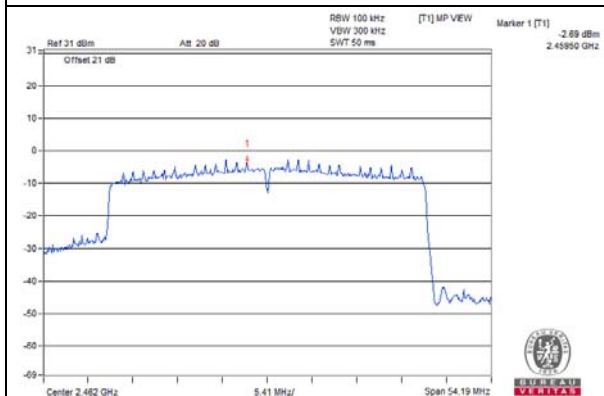
CH 9



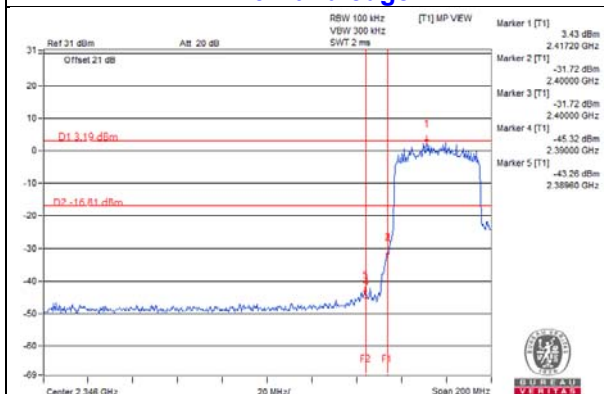
CH 10



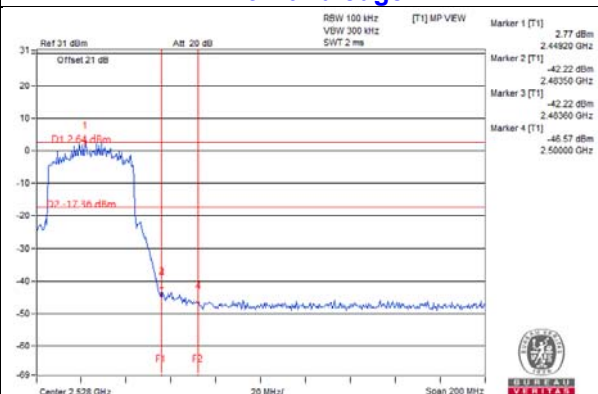
CH 11



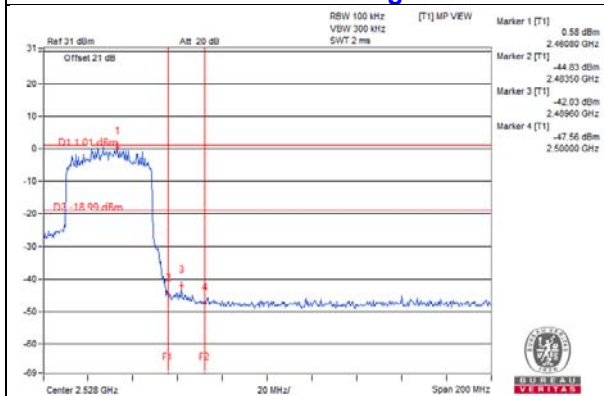
CH 3 Band edge



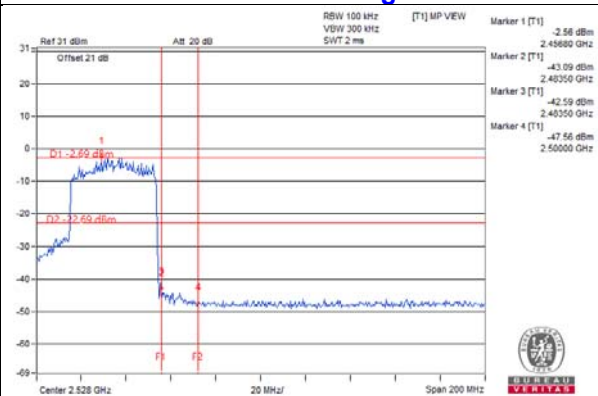
CH 9 Band edge



CH 10 Band edge

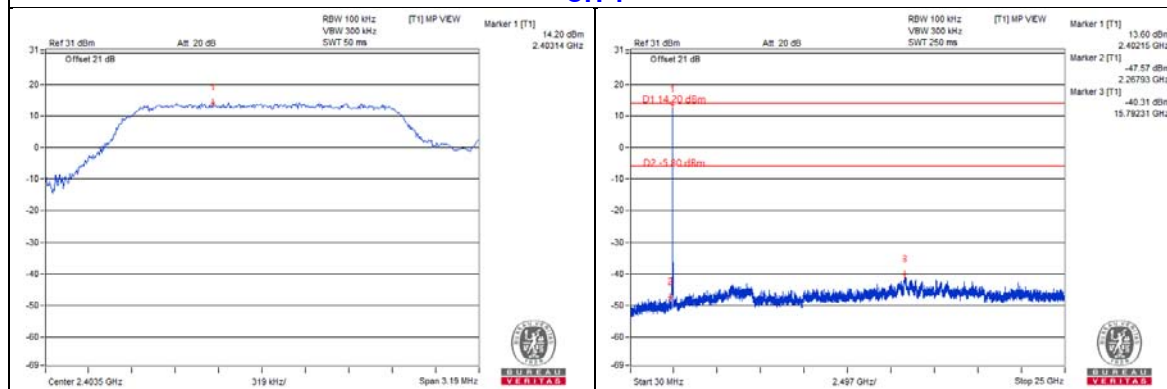


CH 11 Band edge

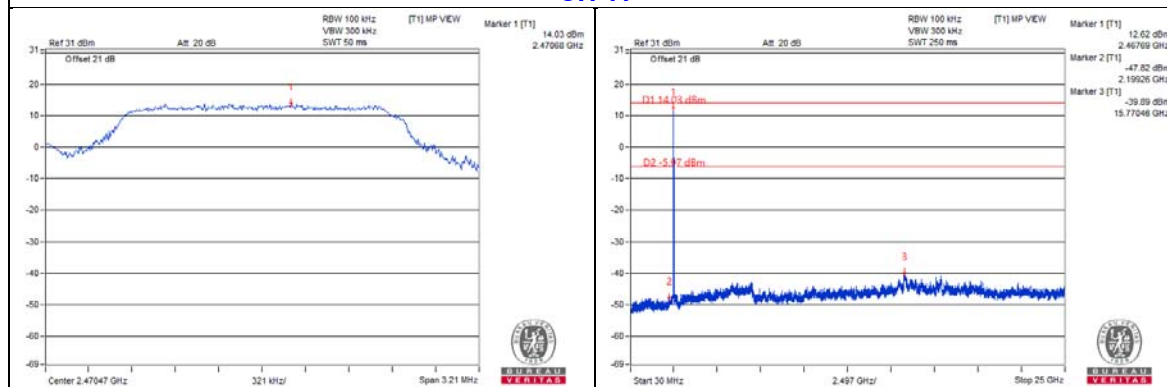


802.11ax (RU26) Chain 0

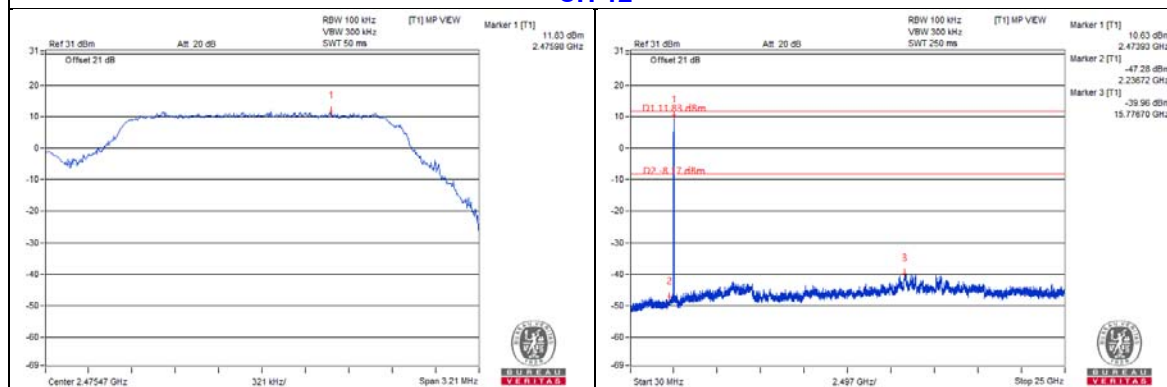
CH 1



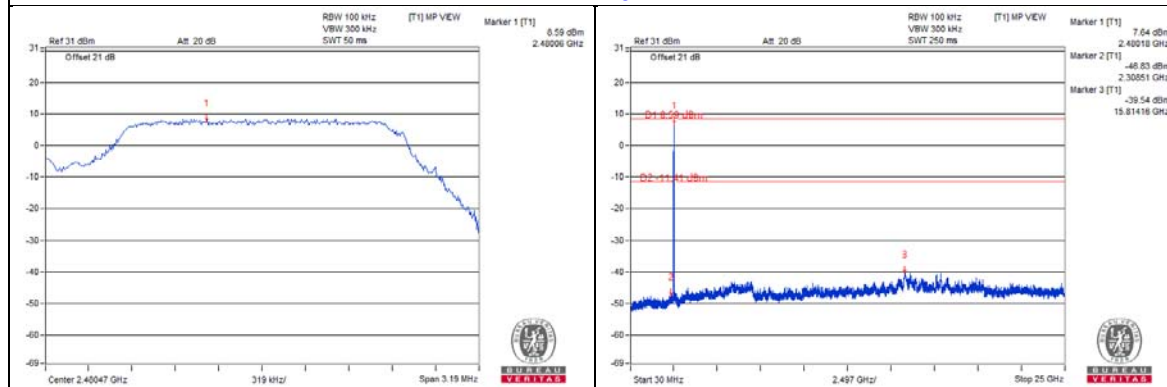
CH 11



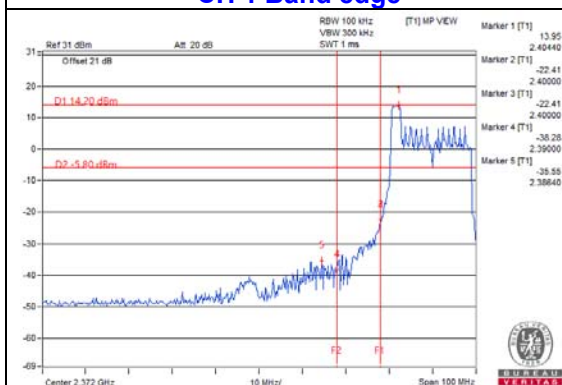
CH 12



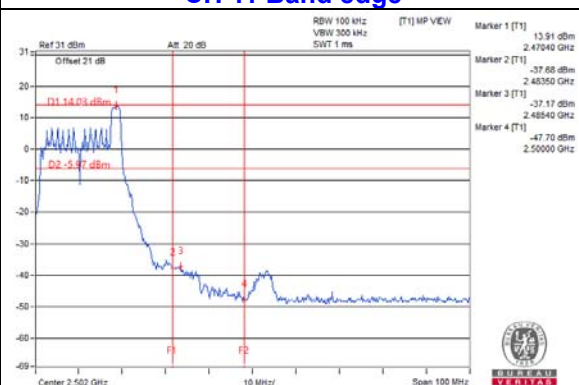
CH 13



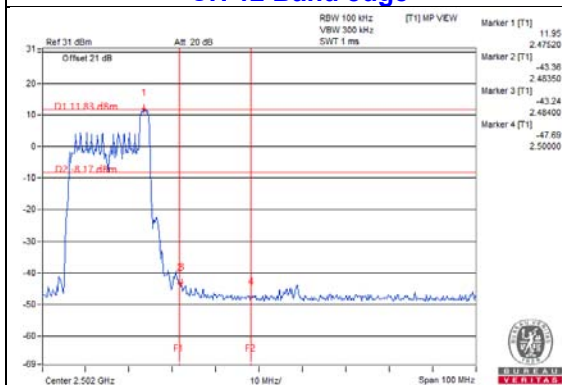
CH 1 Band edge



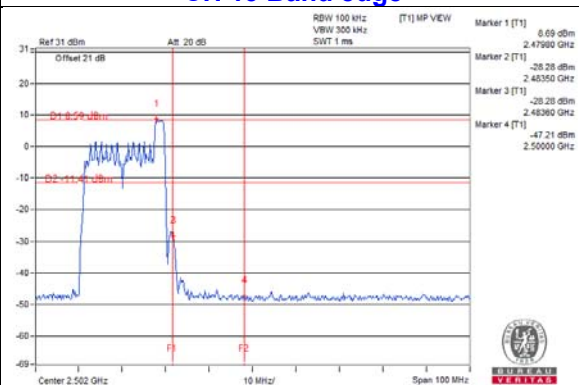
CH 11 Band edge



CH 12 Band edge

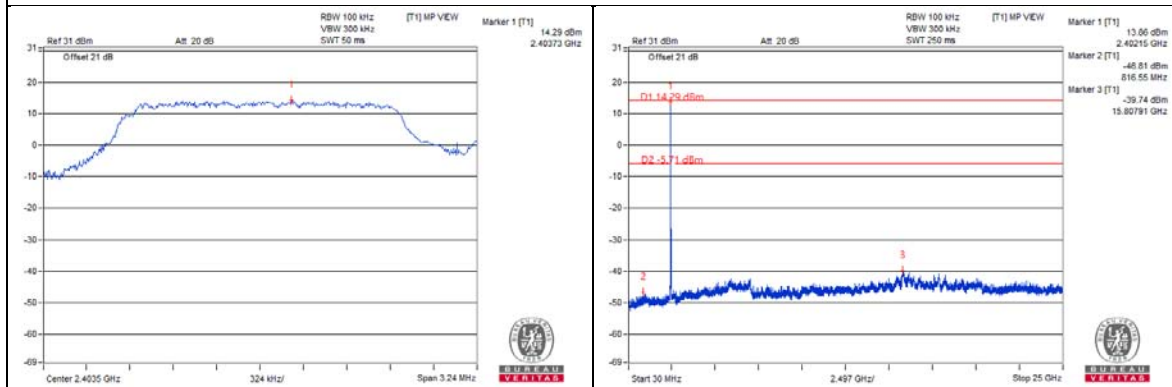


CH 13 Band edge

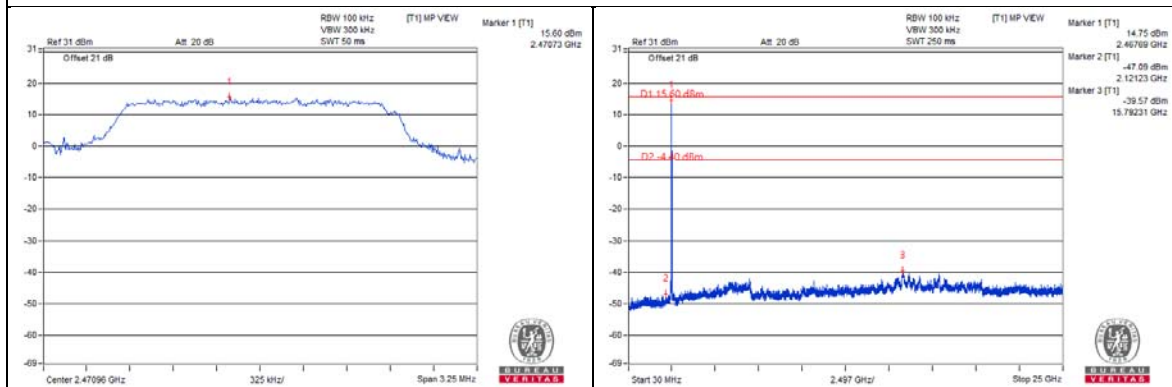


Chain 1

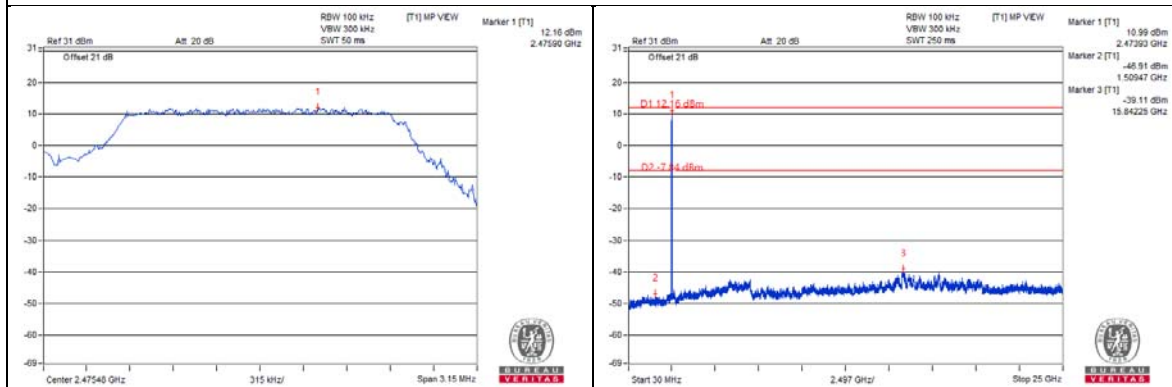
CH 1



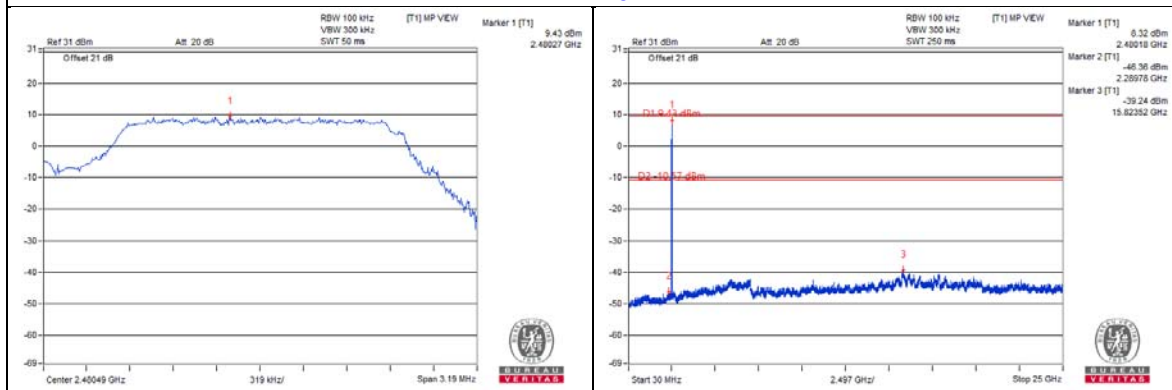
CH 11



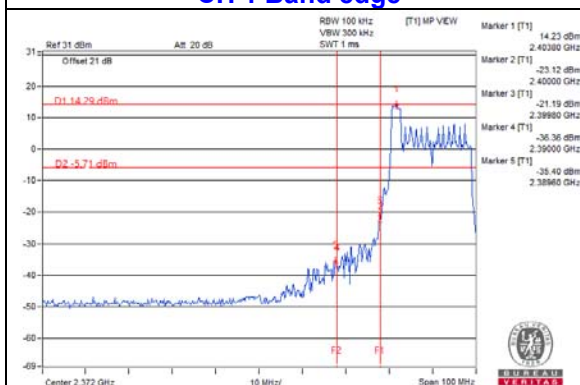
CH 12



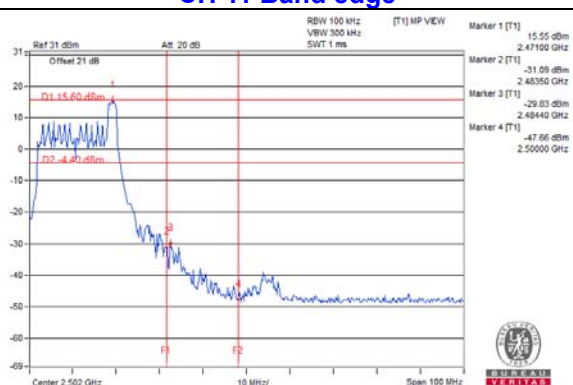
CH 13



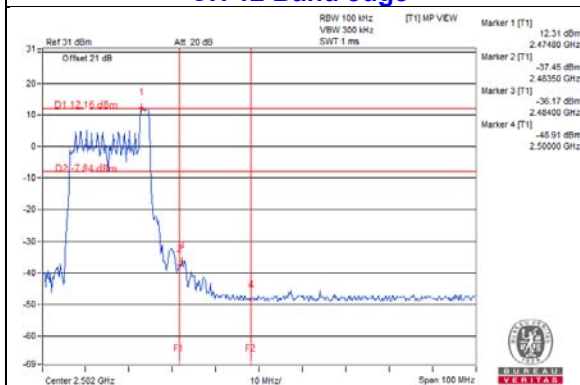
CH 1 Band edge



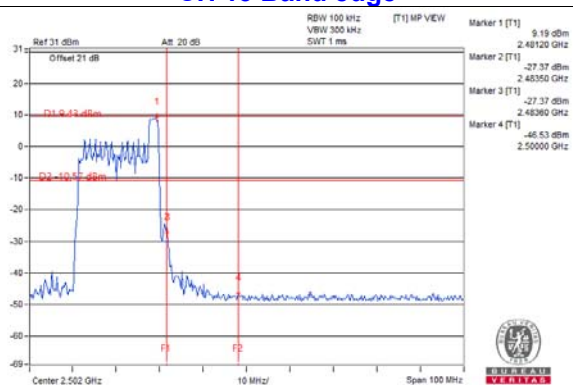
CH 11 Band edge



CH 12 Band edge



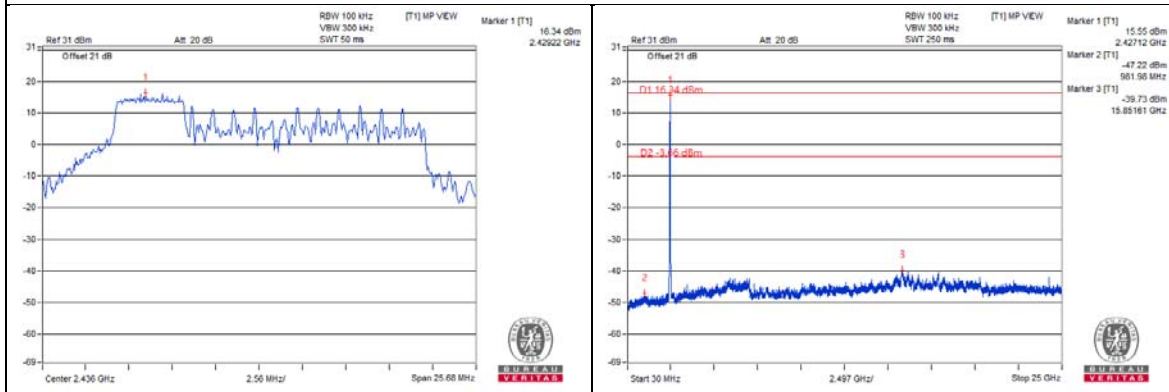
CH 13 Band edge



802.11ax (RU52)

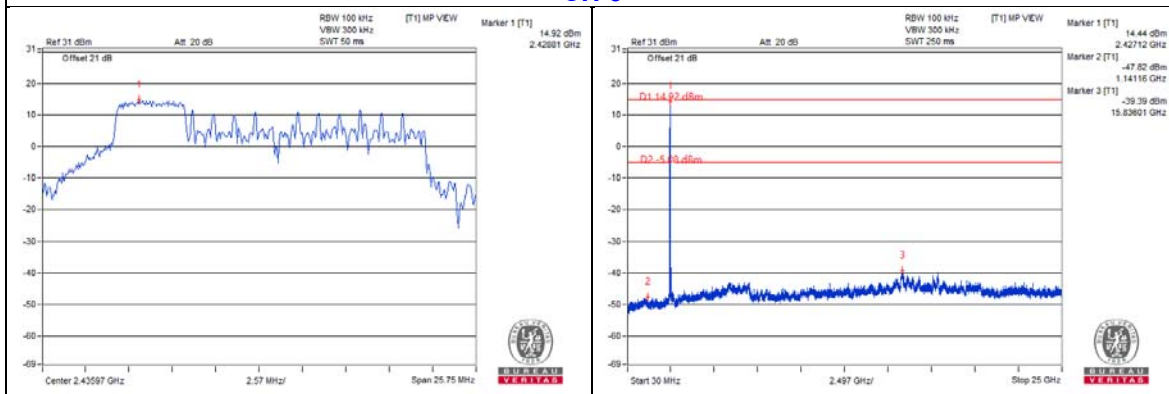
Chain 0

CH 6



Chain 1

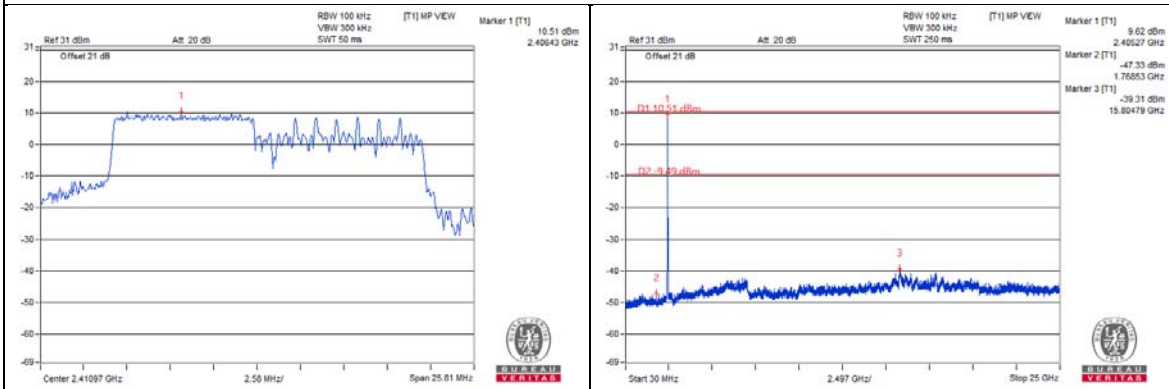
CH 6



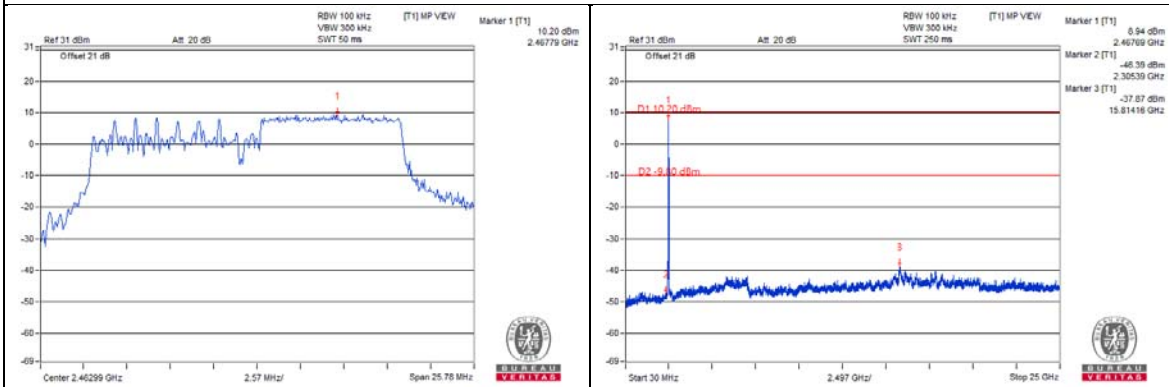
802.11ax (RU106)

Chain 0

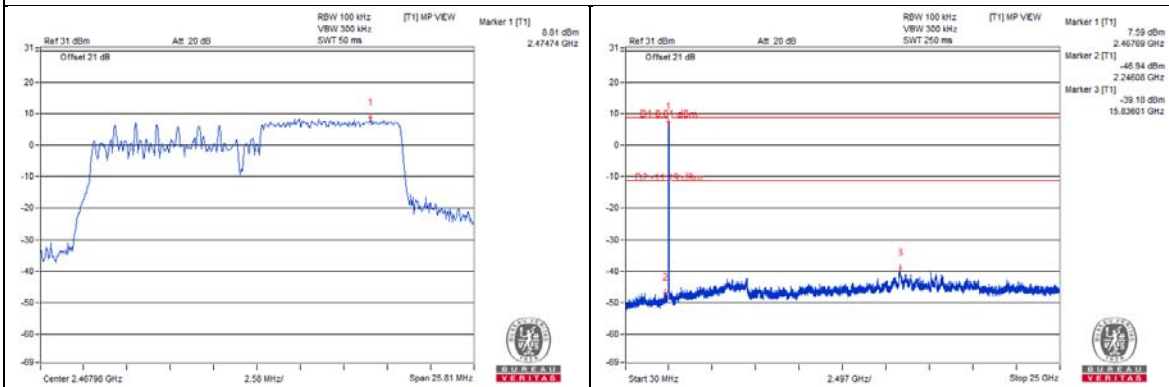
CH 1



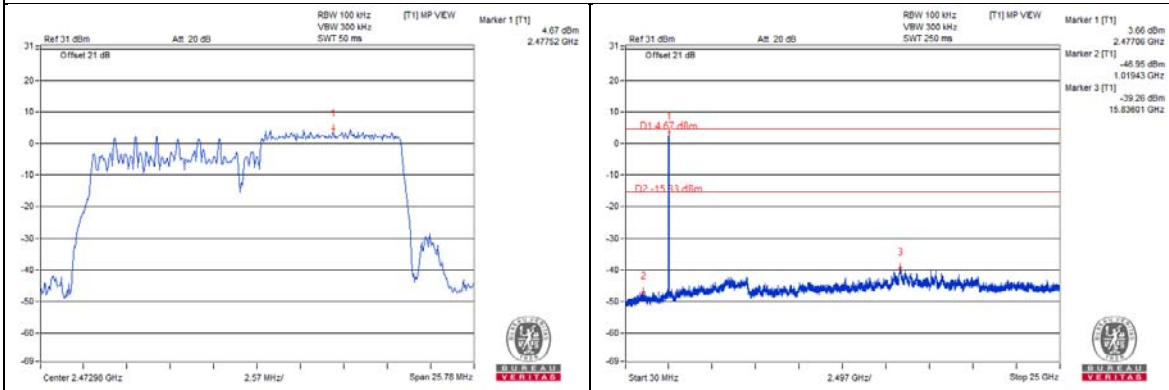
CH 11



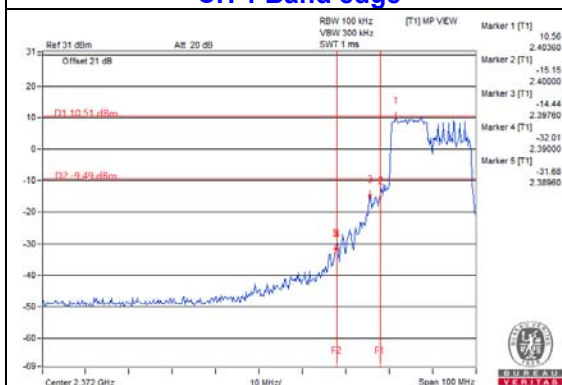
CH 12



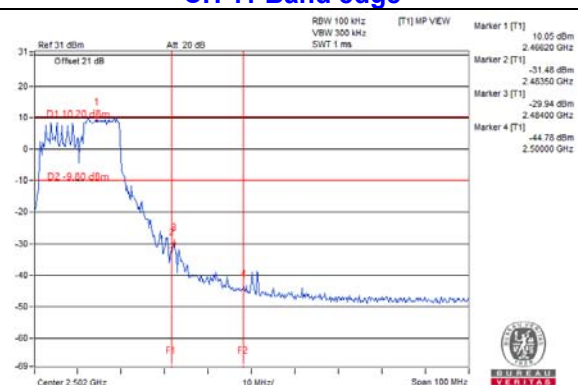
CH 13



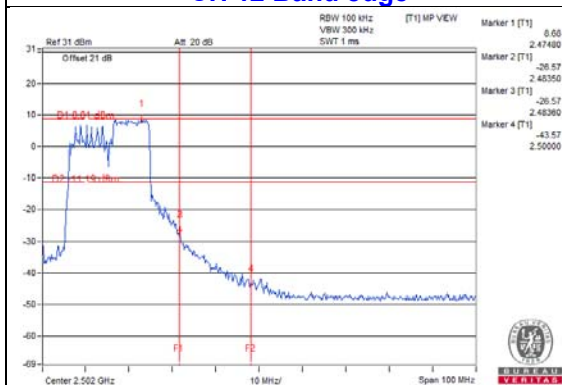
CH 1 Band edge



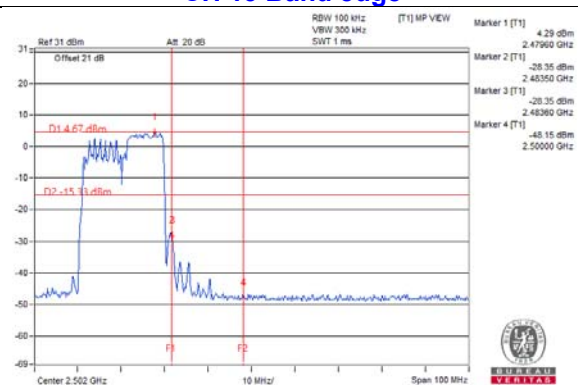
CH 11 Band edge



CH 12 Band edge

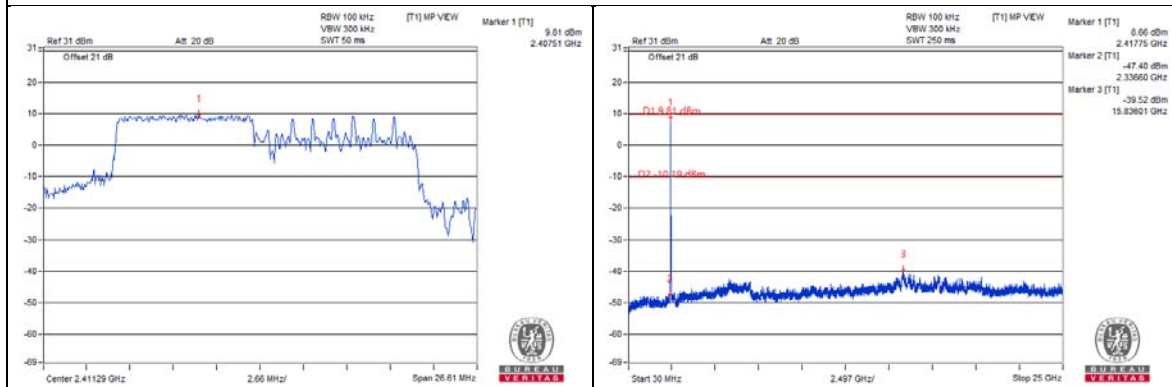


CH 13 Band edge

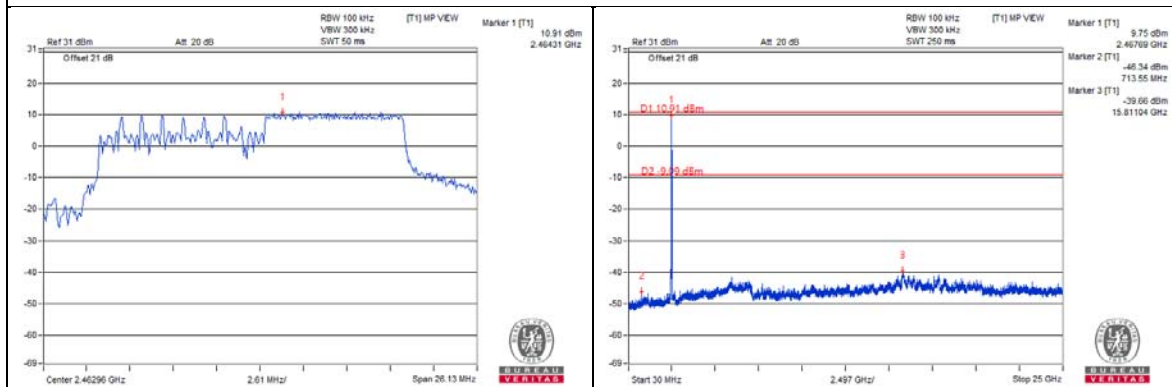


Chain 1

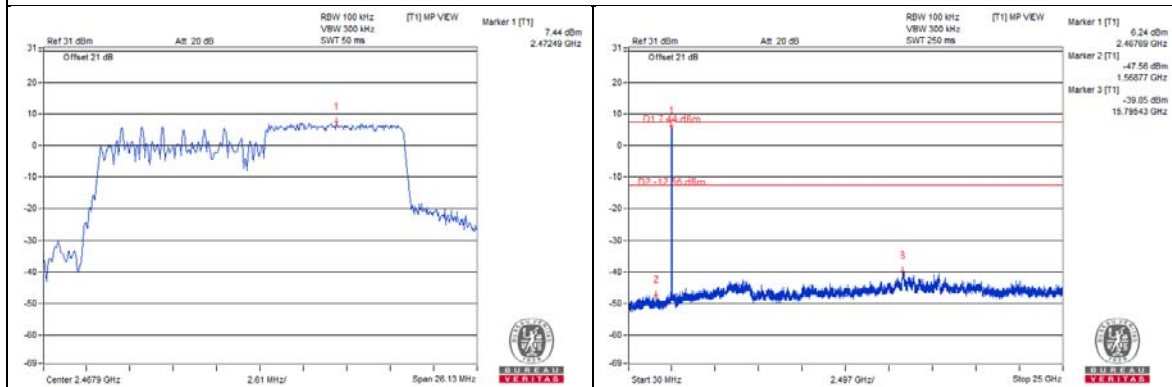
CH 1



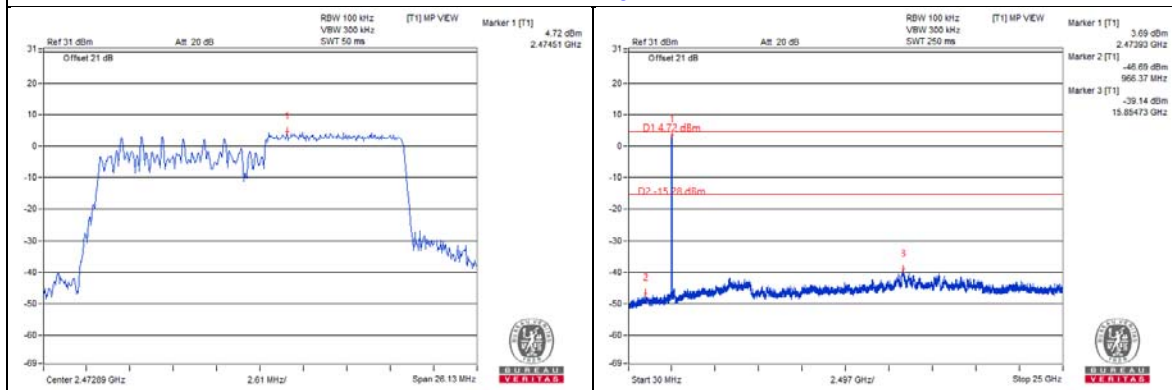
CH 11



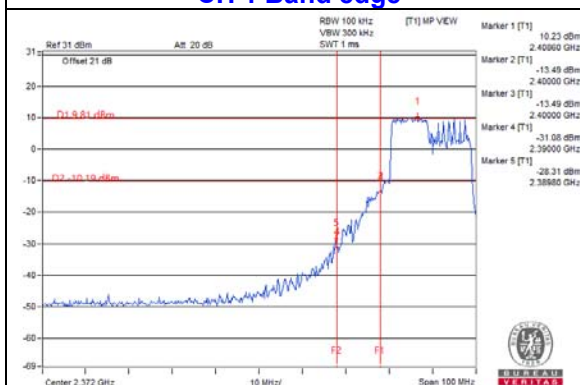
CH 12



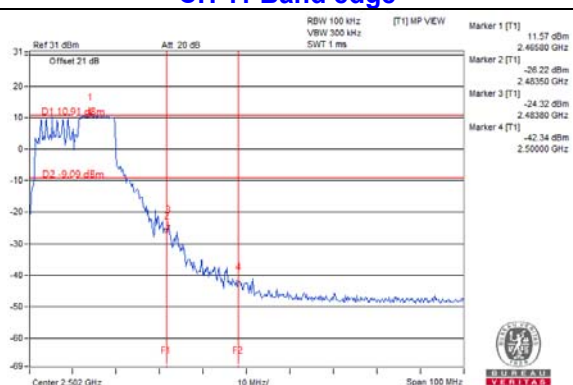
CH 13



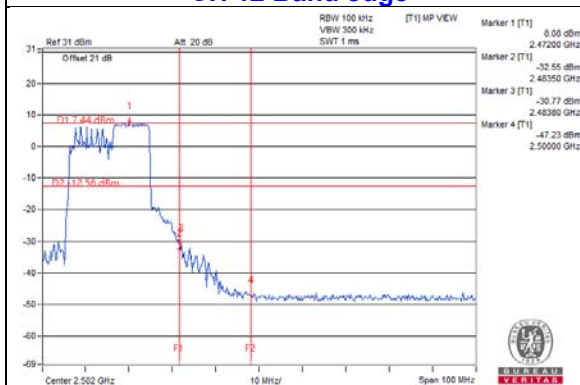
CH 1 Band edge



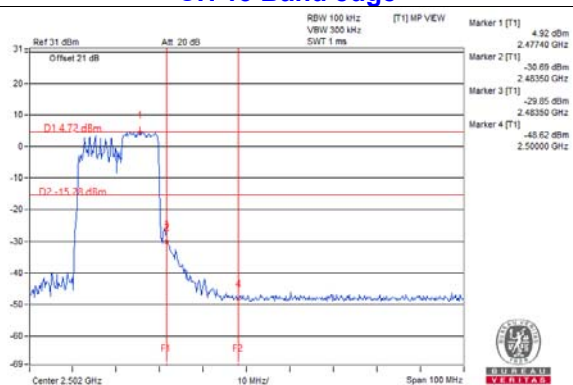
CH 11 Band edge



CH 12 Band edge

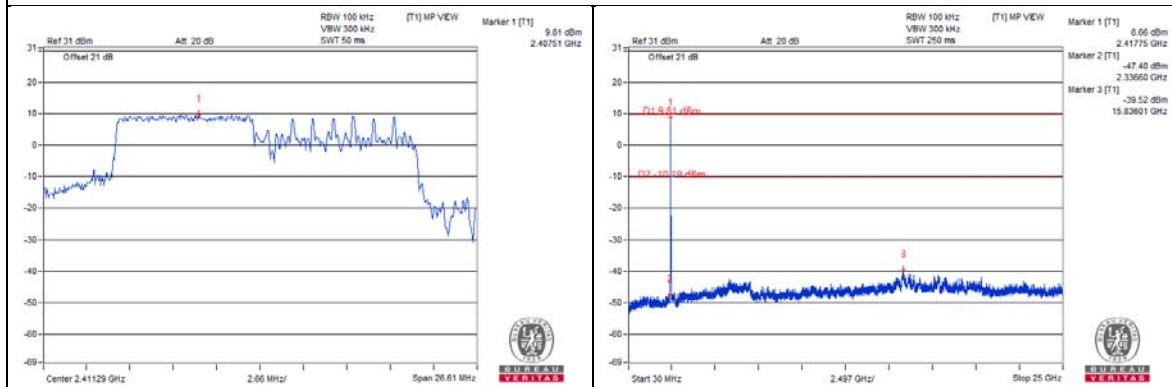


CH 13 Band edge

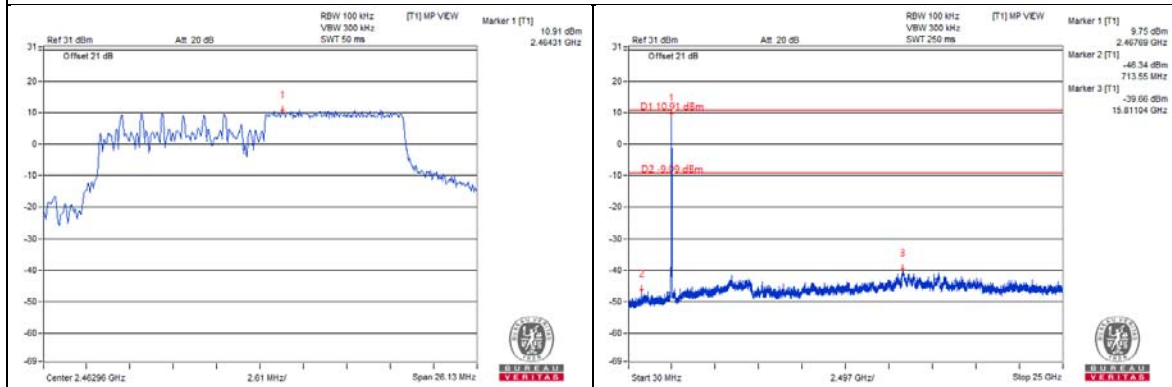


Chain 1

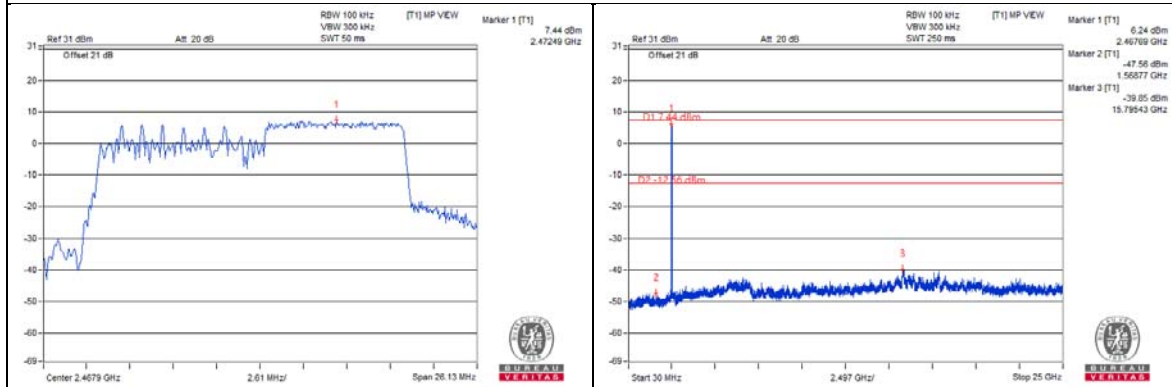
CH 1



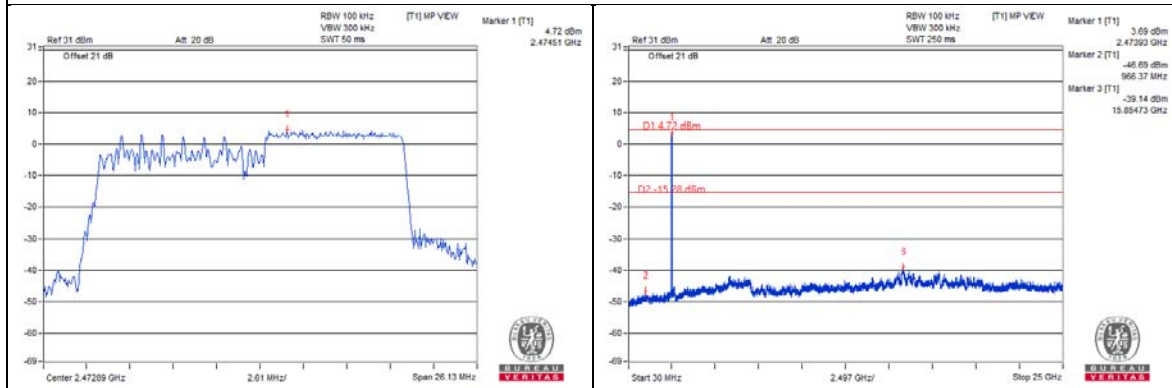
CH 11



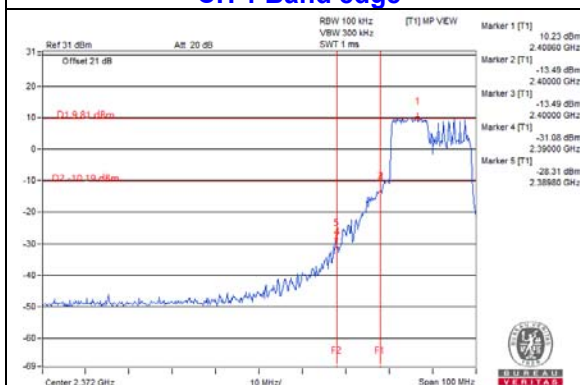
CH 12



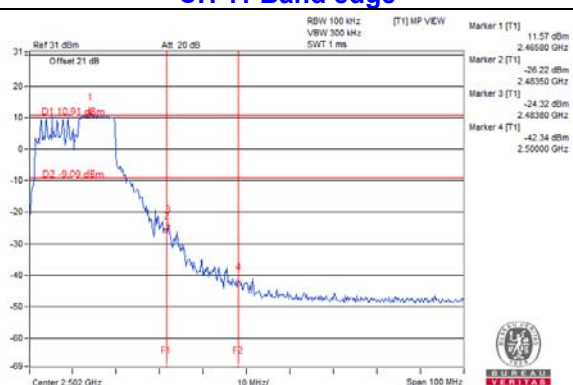
CH 13



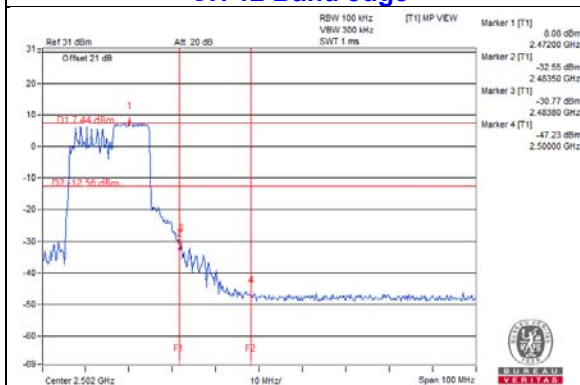
CH 1 Band edge



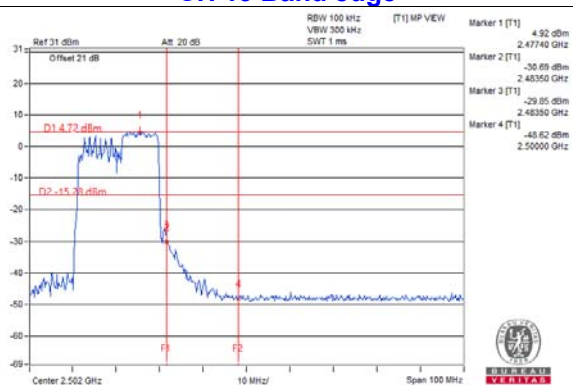
CH 11 Band edge



CH 12 Band edge



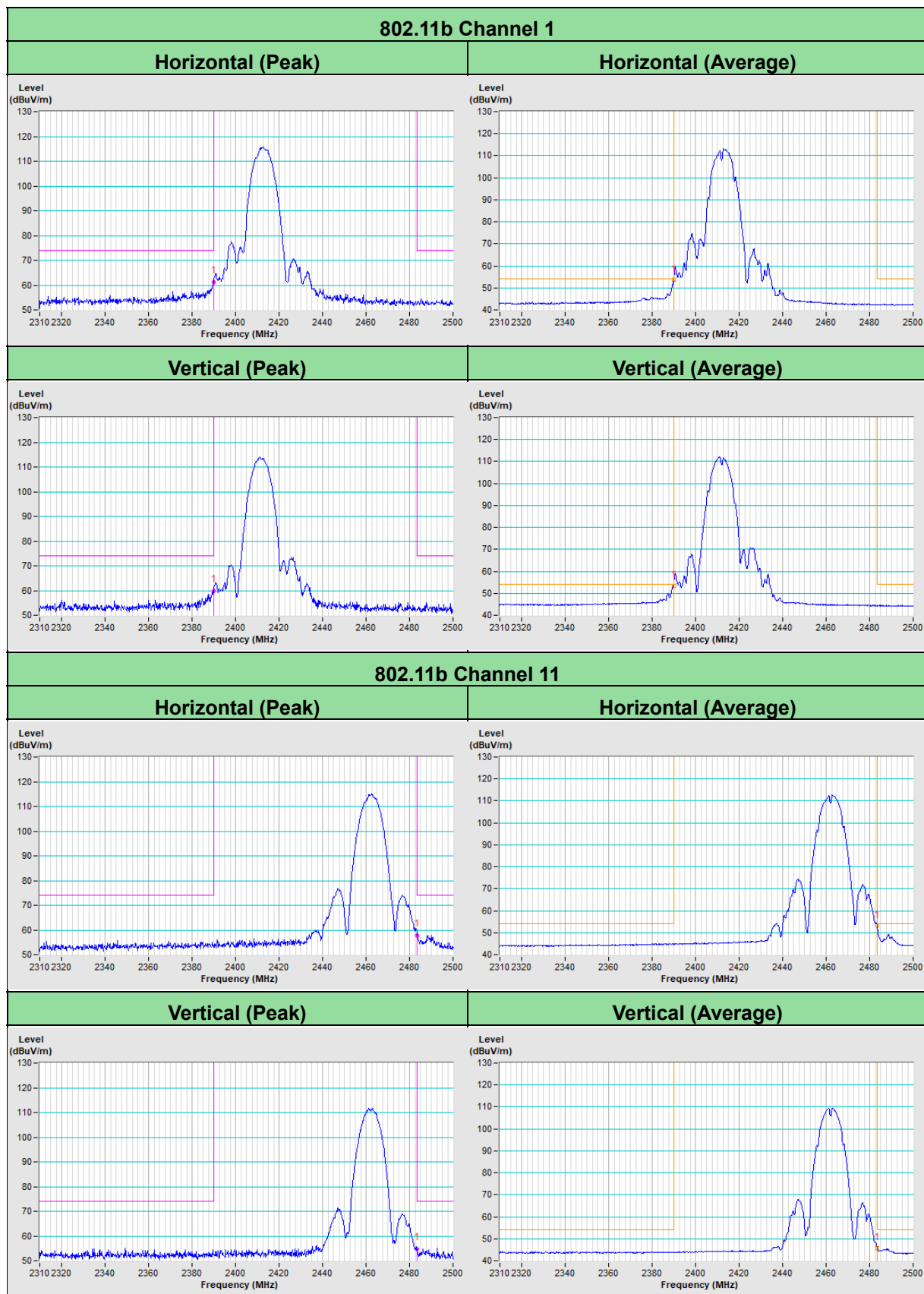
CH 13 Band edge

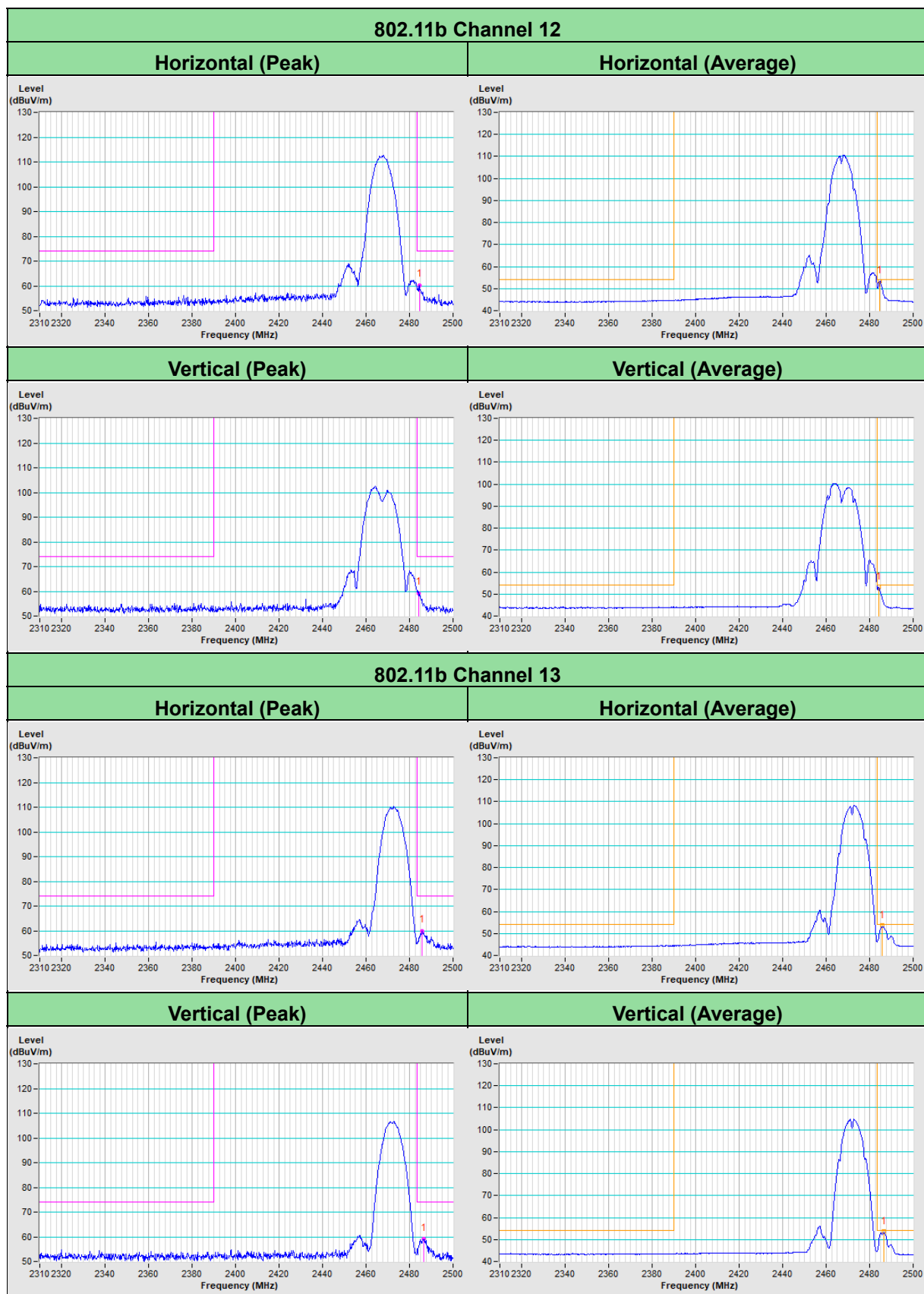


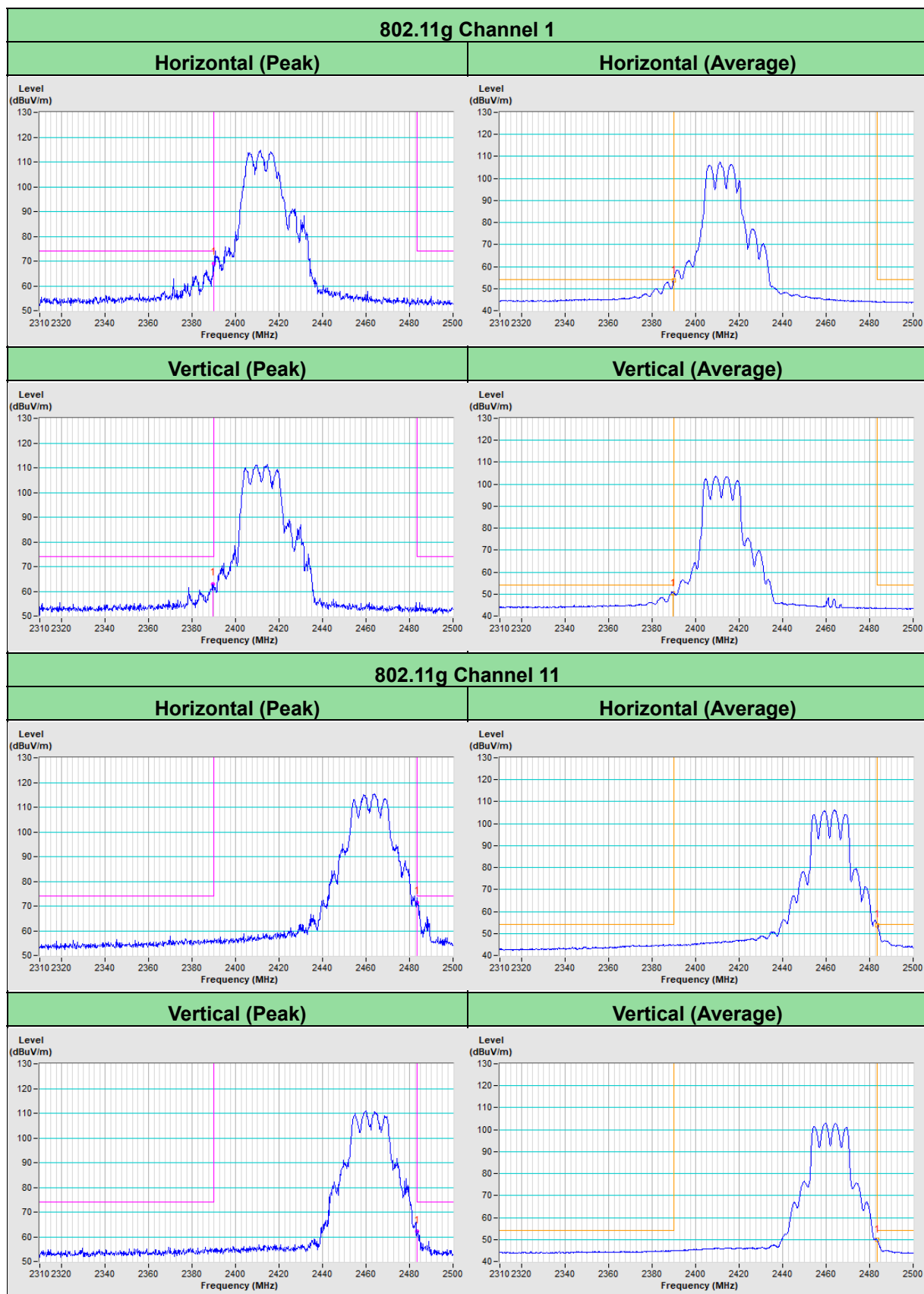
5 Pictures of Test Arrangements

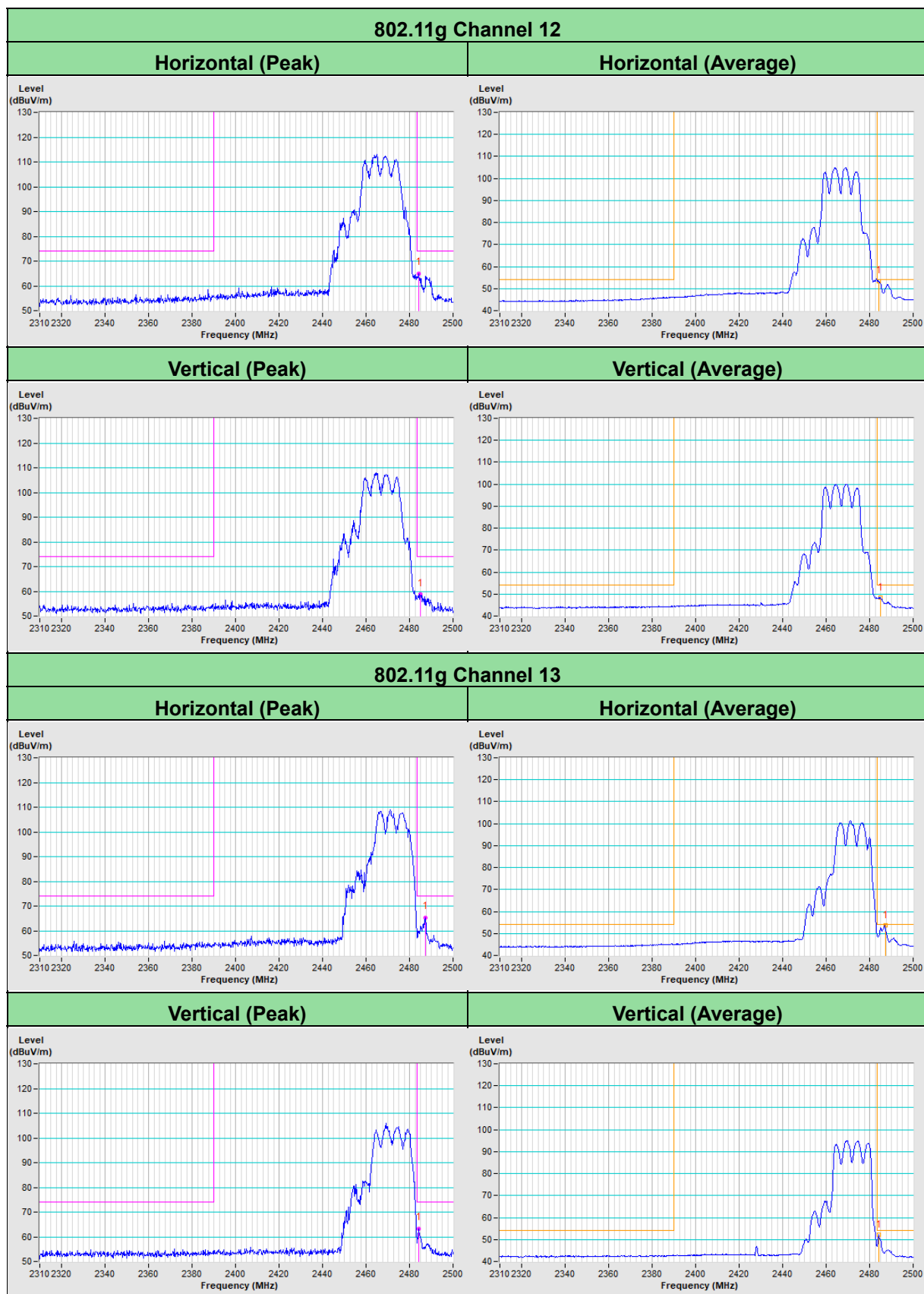
Please refer to the attached file (Test Setup Photo).

Annex A - Band-Edge Measurement



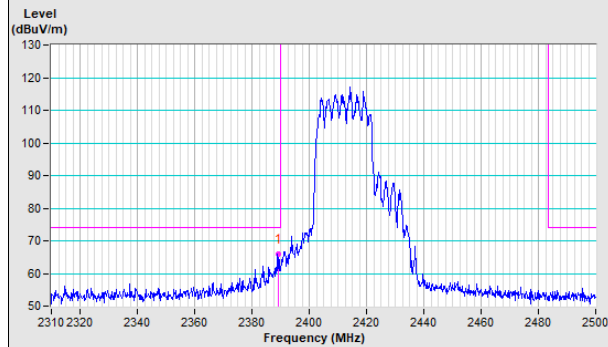




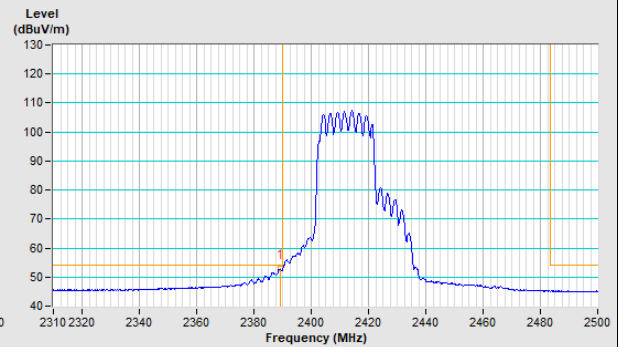


802.11ax (HE20) Channel 1

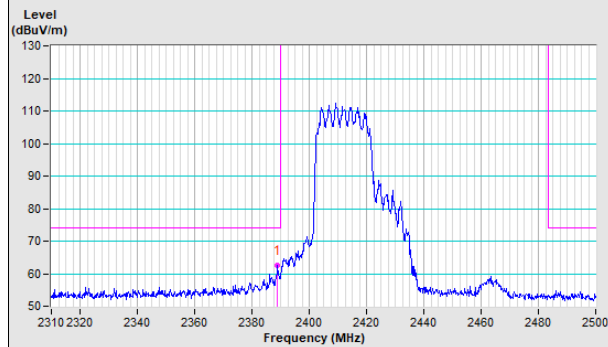
Horizontal (Peak)



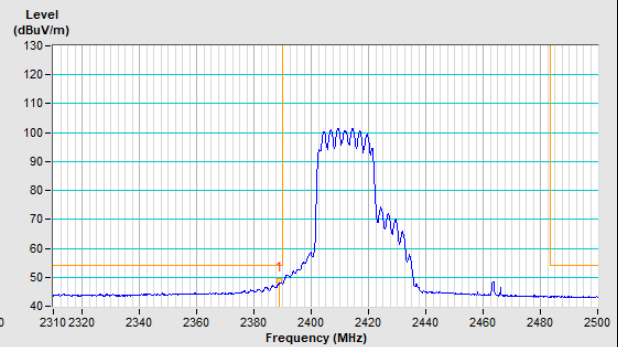
Horizontal (Average)



Vertical (Peak)

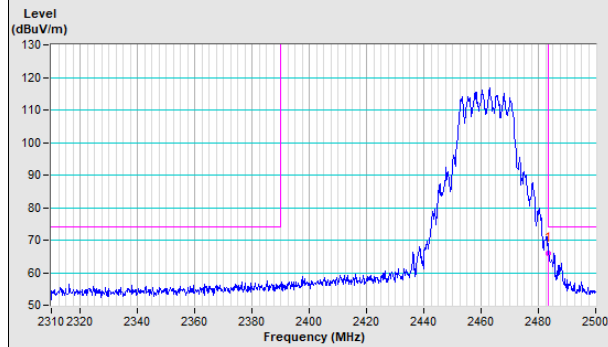


Vertical (Average)

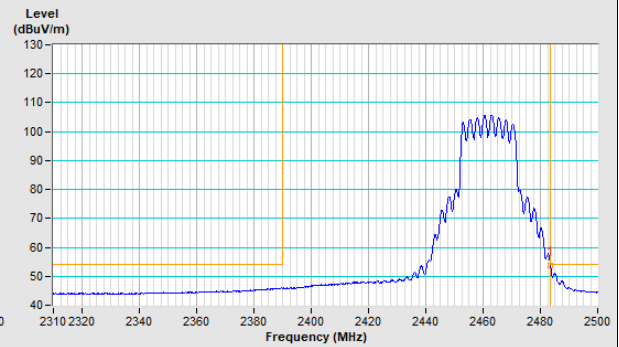


802.11ax (HE20) Channel 11

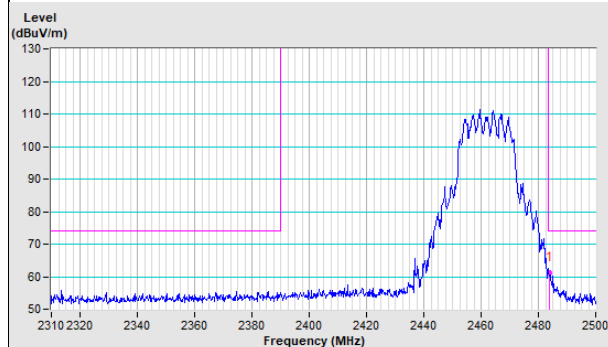
Horizontal (Peak)



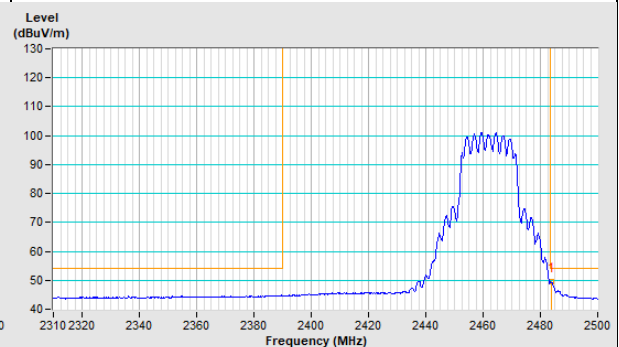
Horizontal (Average)



Vertical (Peak)

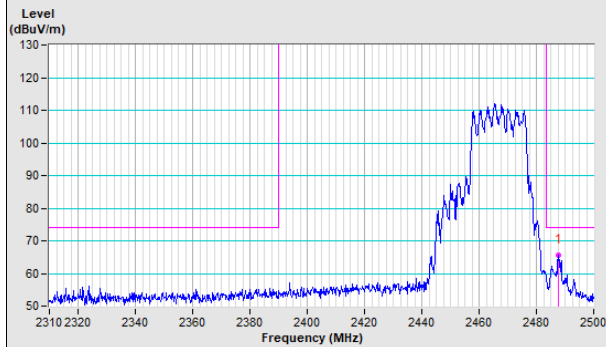


Vertical (Average)

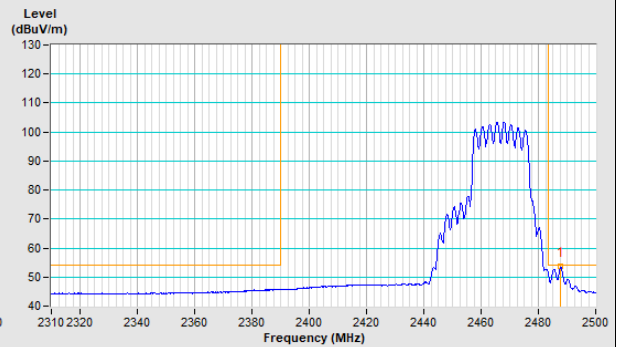


802.11ax (HE20) Channel 12

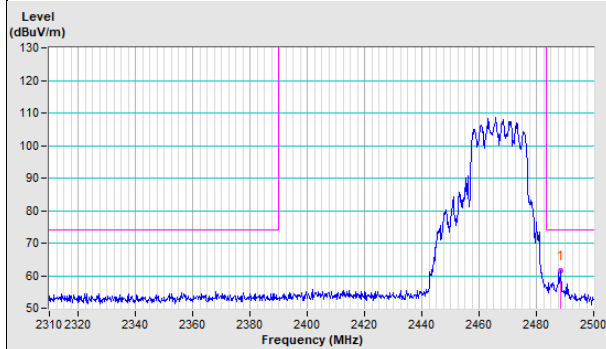
Horizontal (Peak)



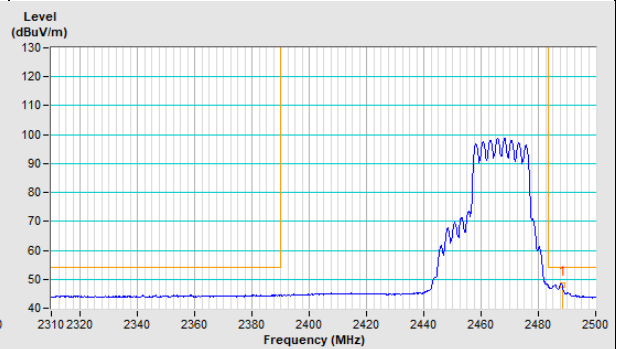
Horizontal (Average)



Vertical (Peak)

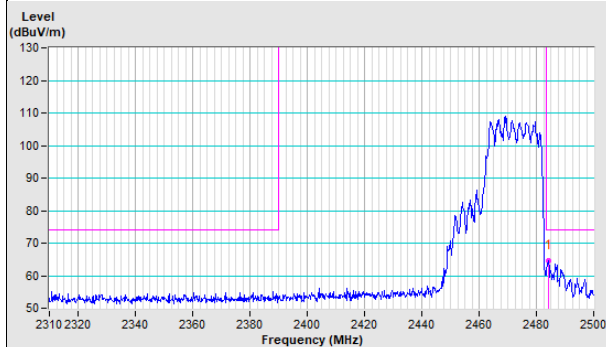


Vertical (Average)

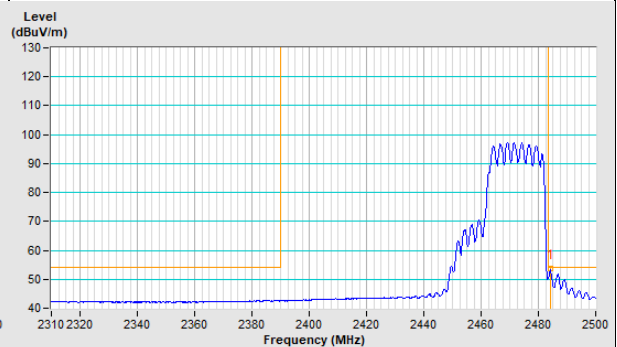


802.11ax (HE20) Channel 13

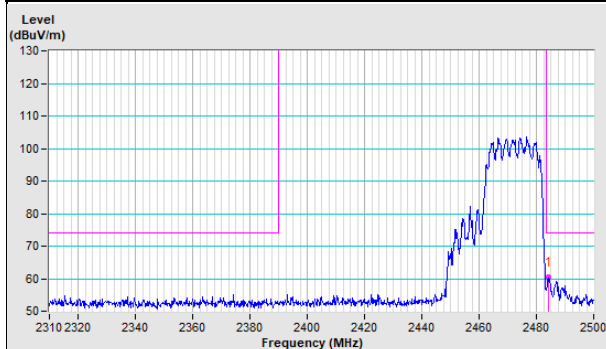
Horizontal (Peak)



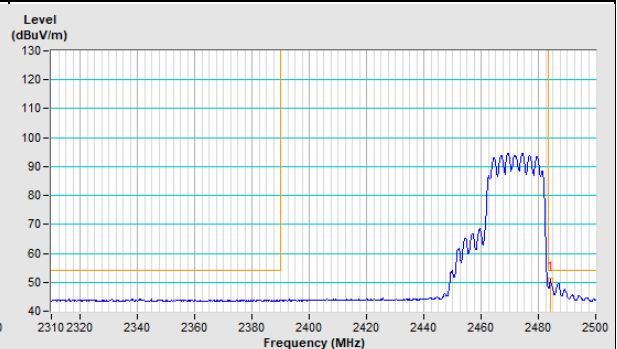
Horizontal (Average)



Vertical (Peak)

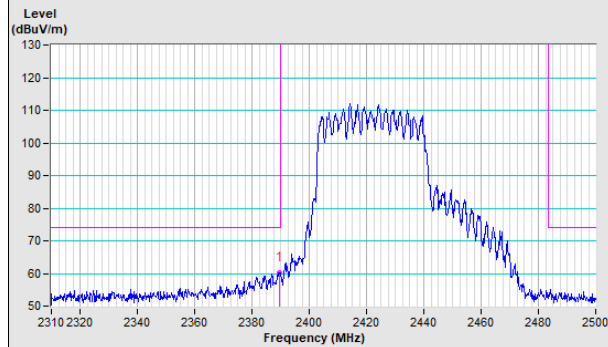


Vertical (Average)

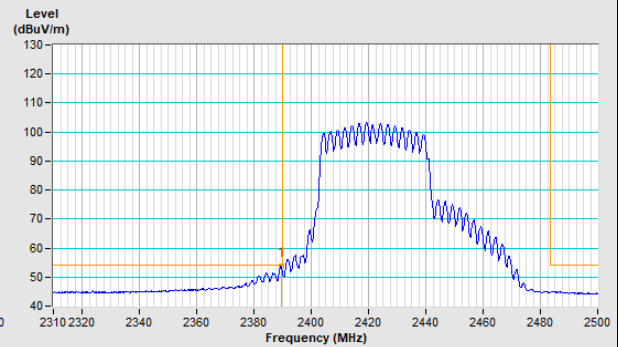


802.11ax (HE40) Channel 3

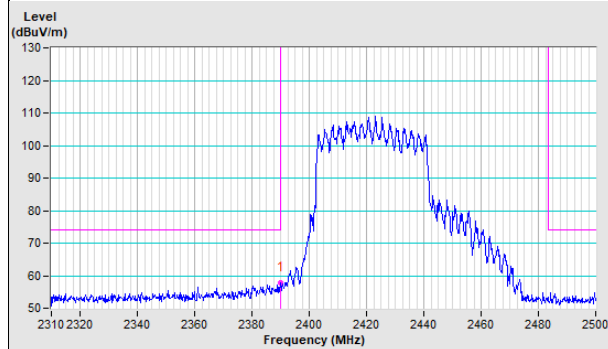
Horizontal (Peak)



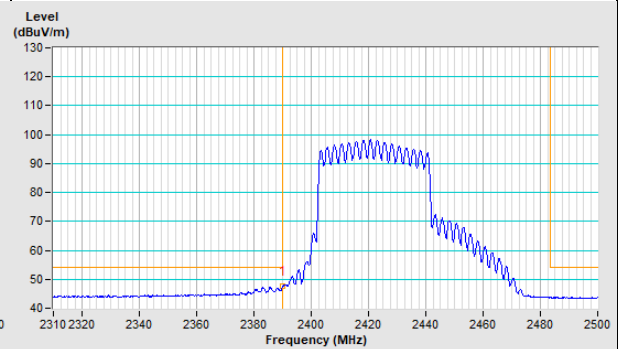
Horizontal (Average)



Vertical (Peak)

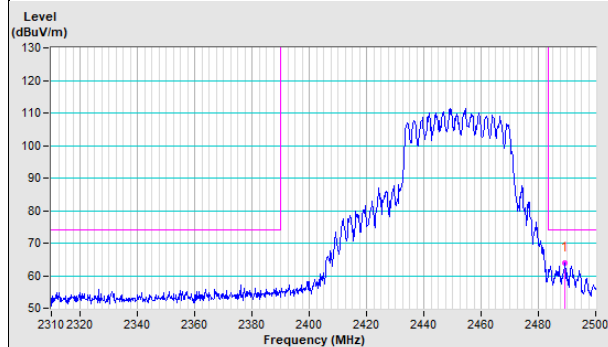


Vertical (Average)

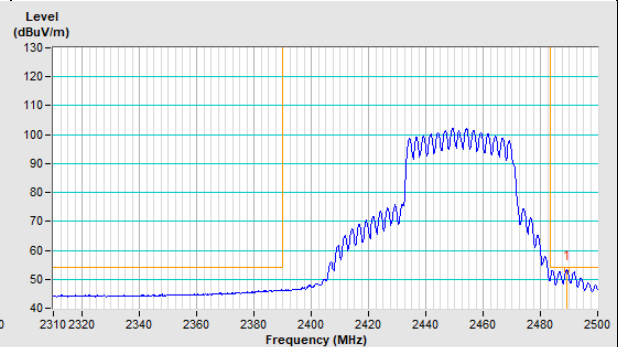


802.11ax (HE40) Channel 9

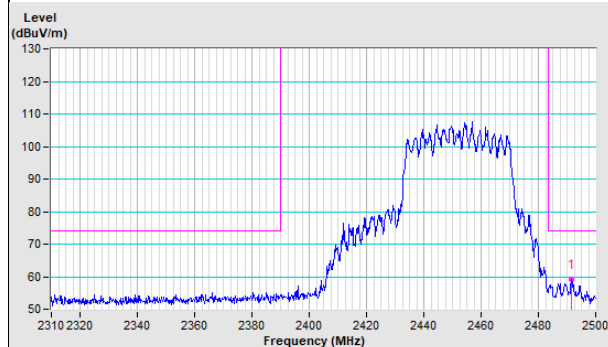
Horizontal (Peak)



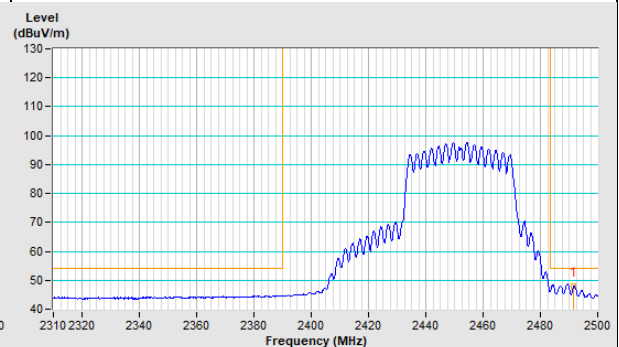
Horizontal (Average)



Vertical (Peak)

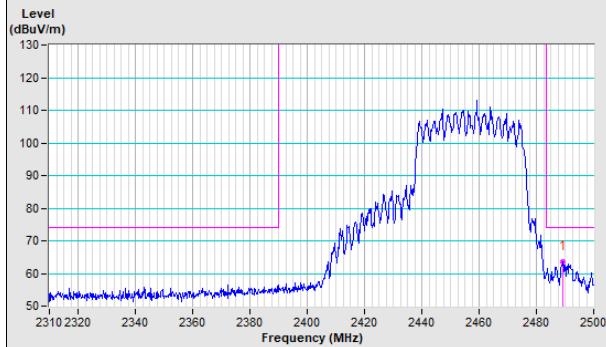


Vertical (Average)

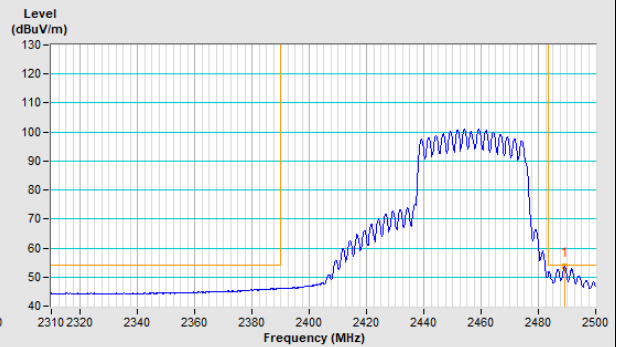


802.11ax (HE40) Channel 10

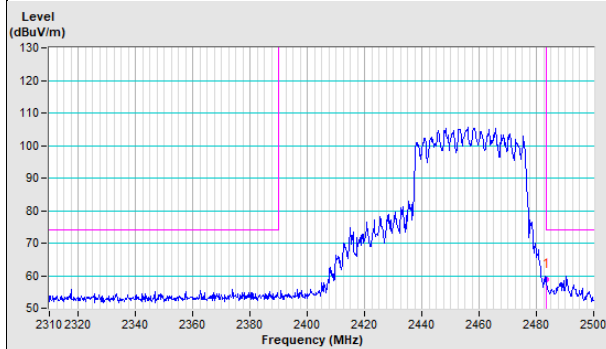
Horizontal (Peak)



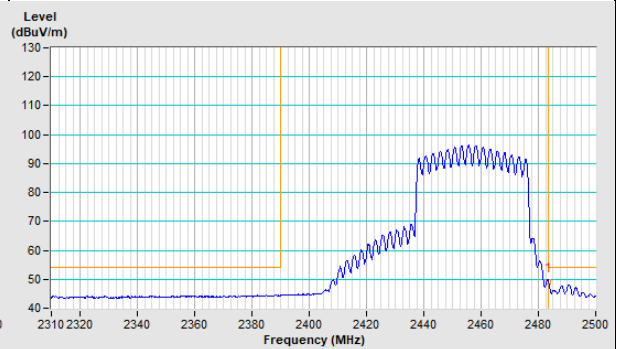
Horizontal (Average)



Vertical (Peak)

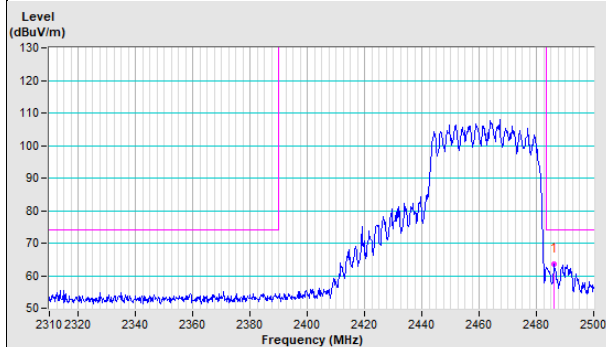


Vertical (Average)

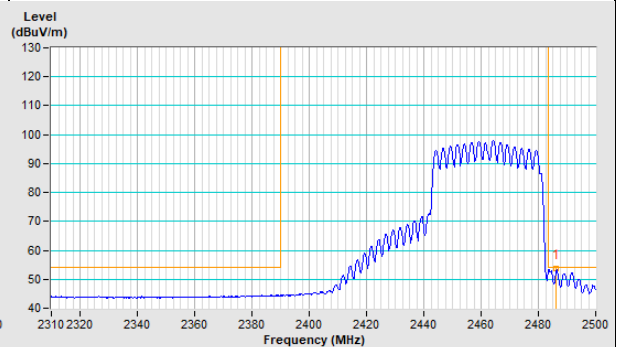


802.11ax (HE40) Channel 11

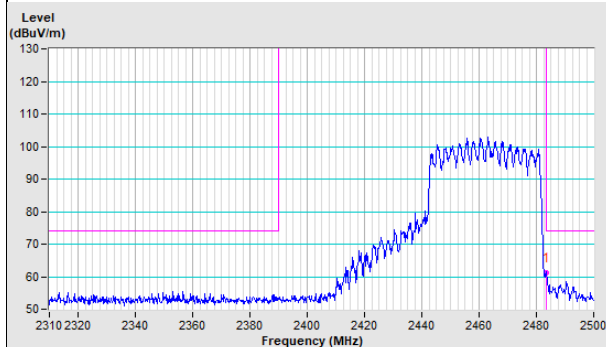
Horizontal (Peak)



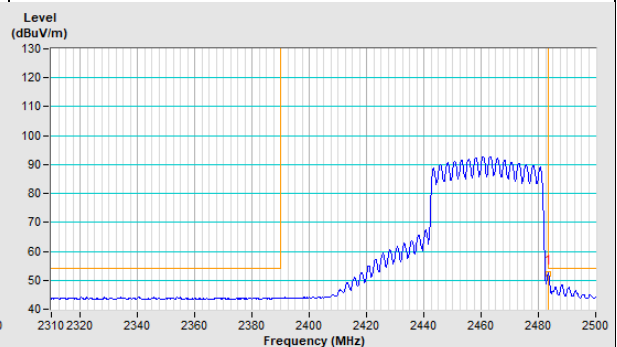
Horizontal (Average)



Vertical (Peak)

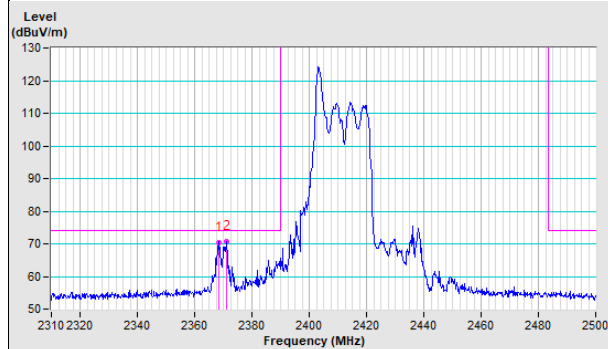


Vertical (Average)

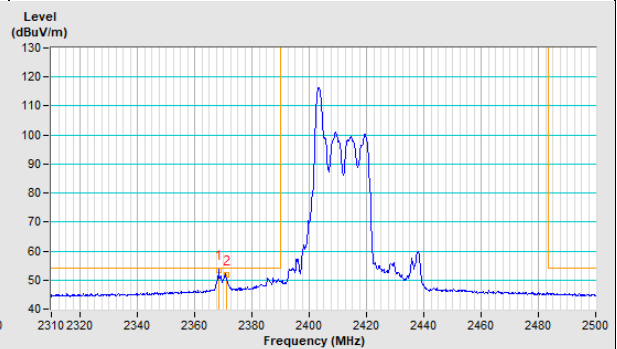


20MHz Preamble 802.11ax (RU26) Channel 1

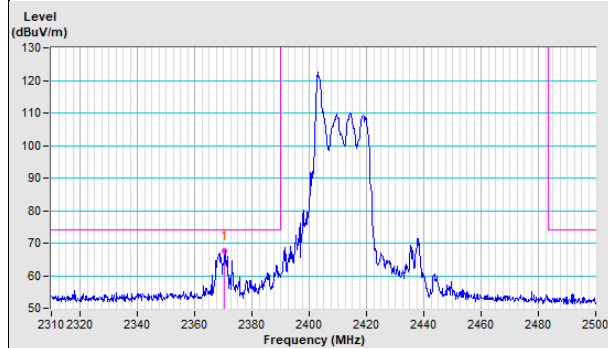
Horizontal (Peak)



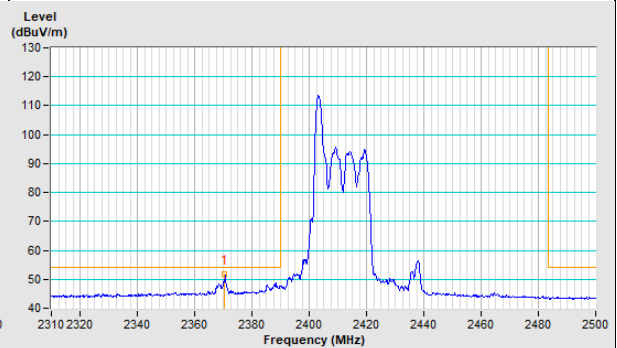
Horizontal (Average)



Vertical (Peak)

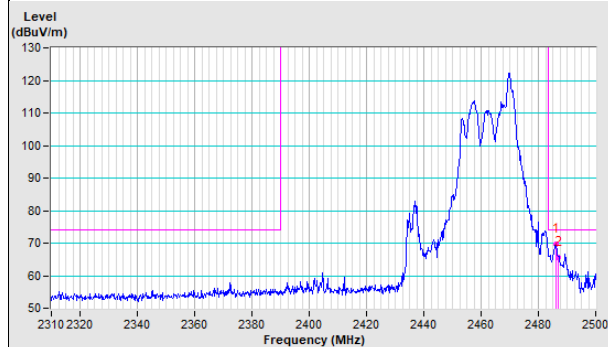


Vertical (Average)

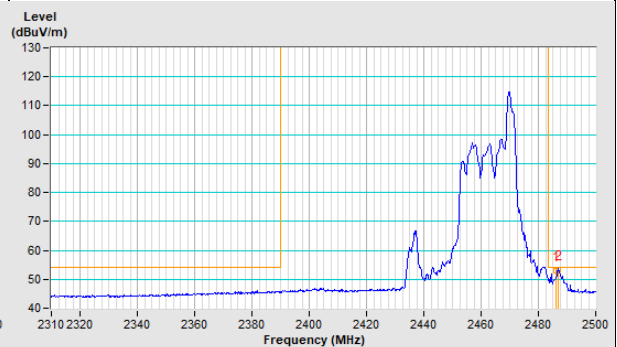


20MHz Preamble 802.11ax (RU26) Channel 11

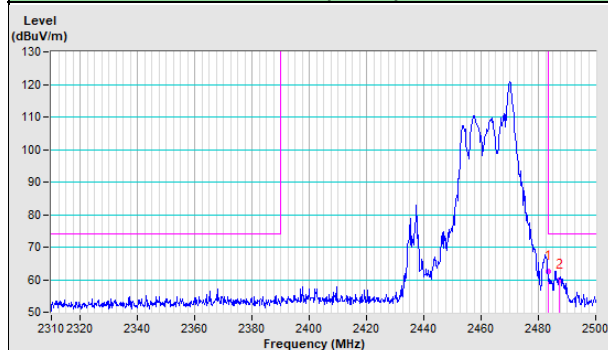
Horizontal (Peak)



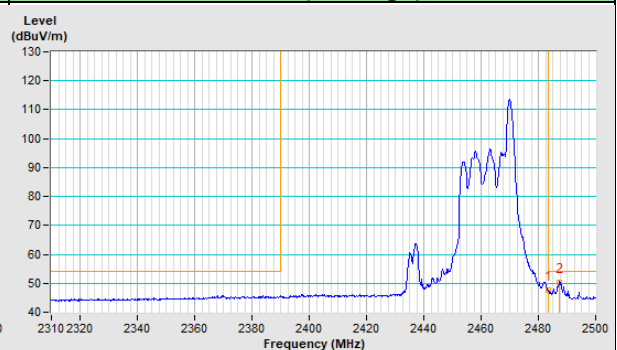
Horizontal (Average)



Vertical (Peak)

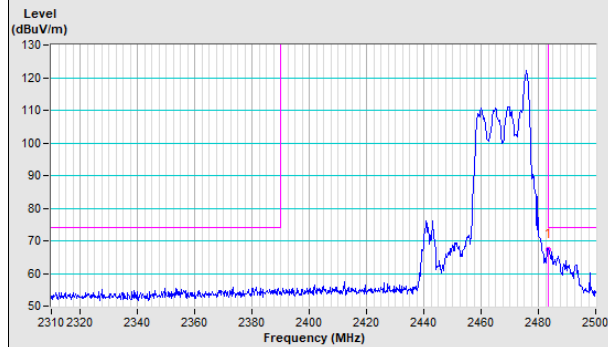


Vertical (Average)

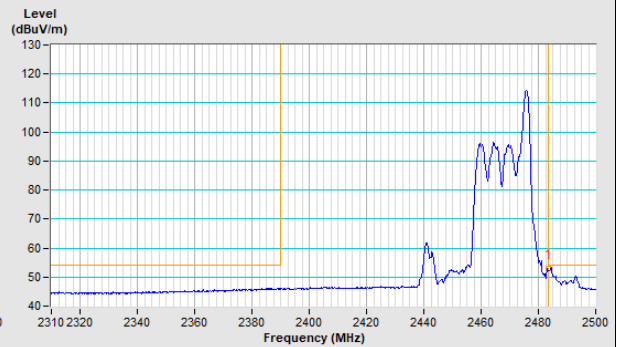


20MHz Preamble 802.11ax (RU26) Channel 12

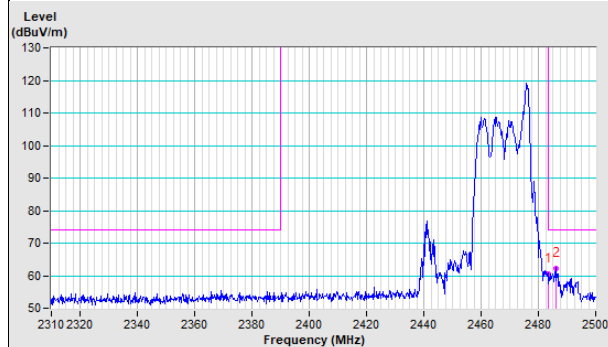
Horizontal (Peak)



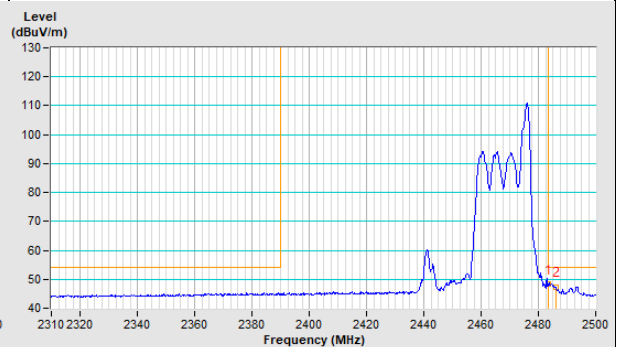
Horizontal (Average)



Vertical (Peak)

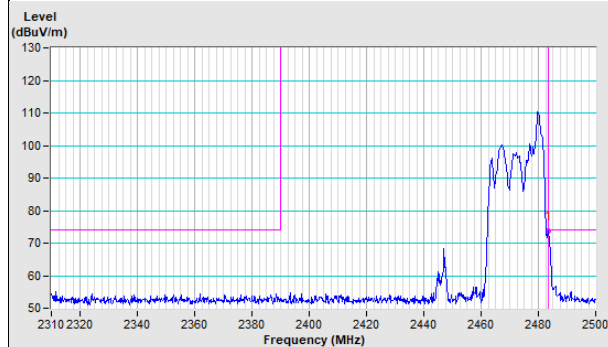


Vertical (Average)

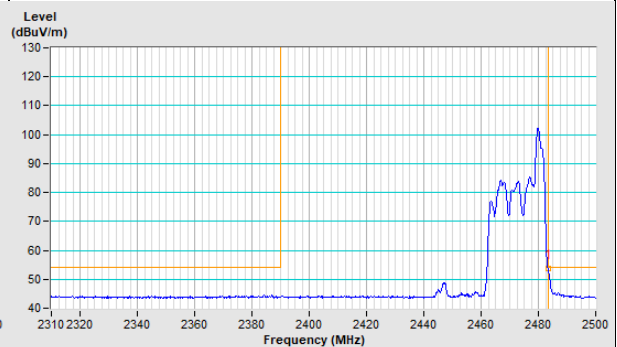


20MHz Preamble 802.11ax (RU26) Channel 13

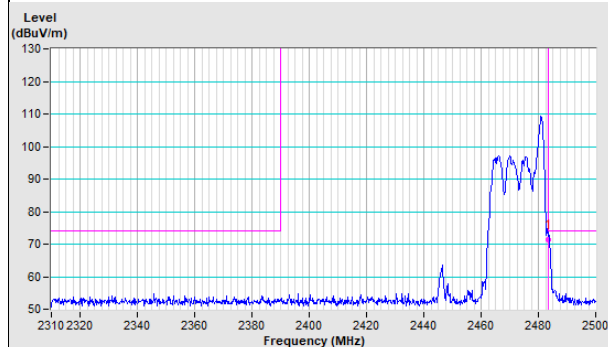
Horizontal (Peak)



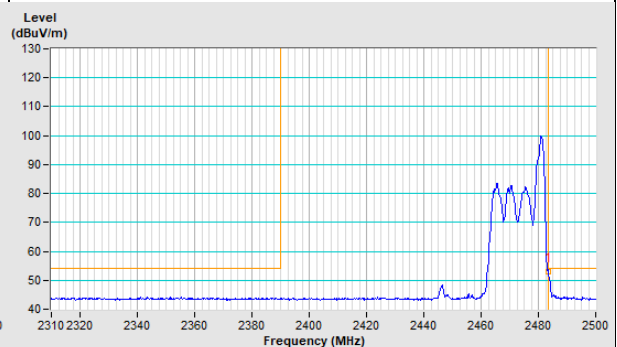
Horizontal (Average)

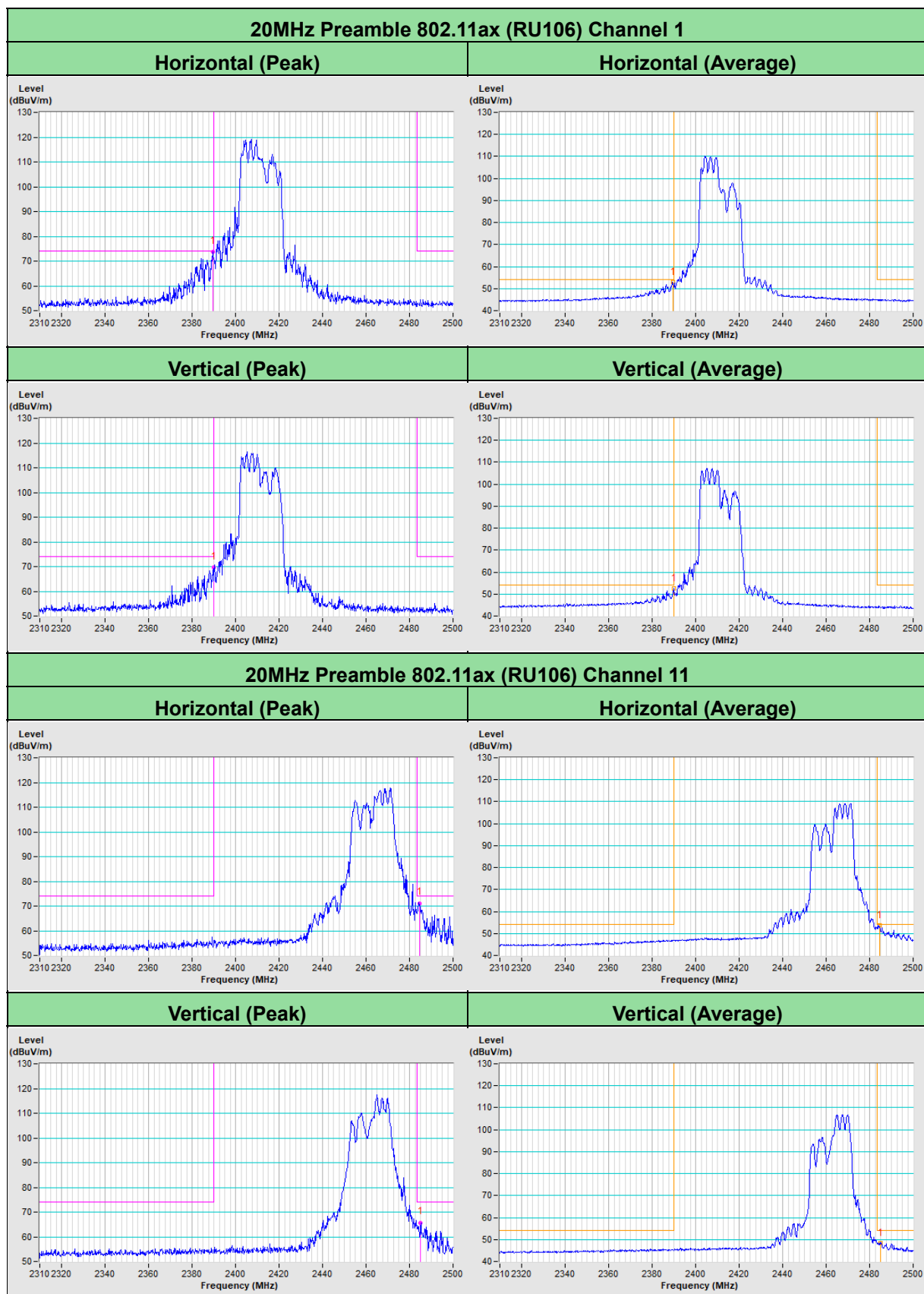


Vertical (Peak)



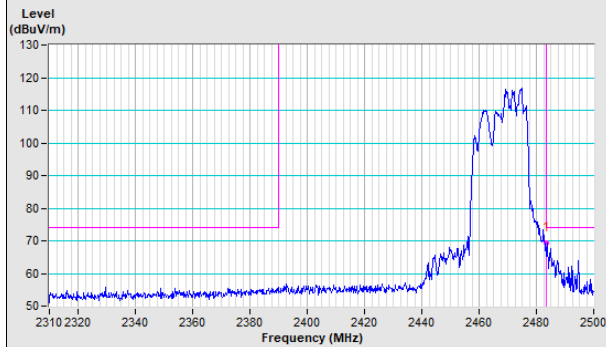
Vertical (Average)



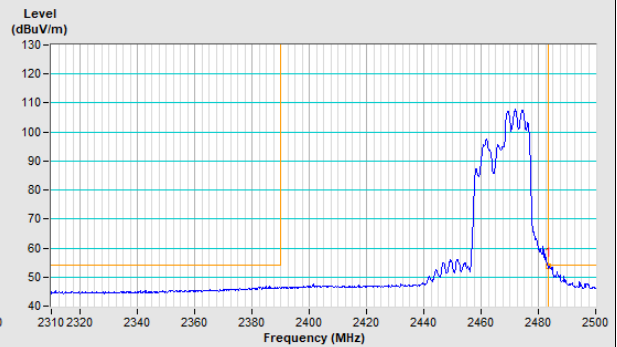


20MHz Preamble 802.11ax (RU106) Channel 12

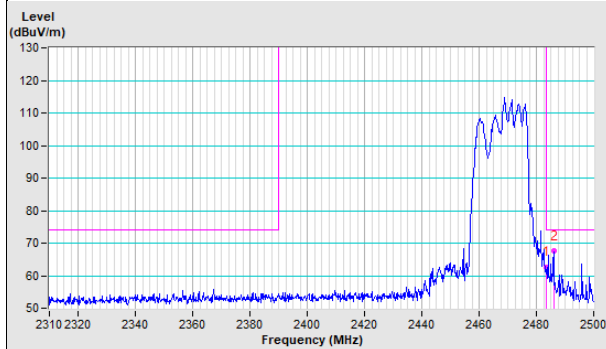
Horizontal (Peak)



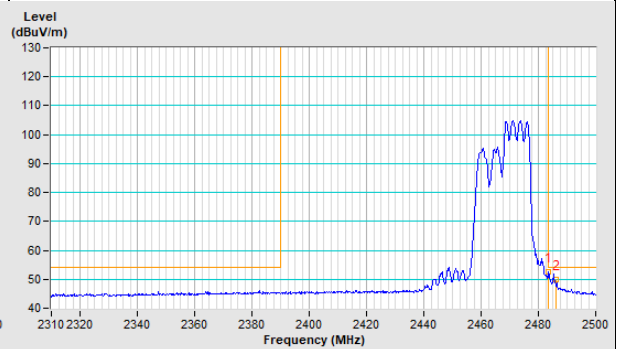
Horizontal (Average)



Vertical (Peak)

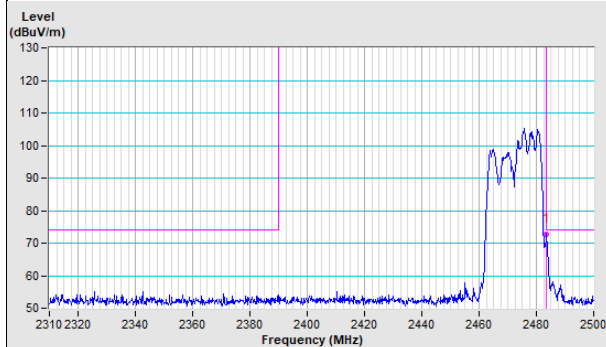


Vertical (Average)

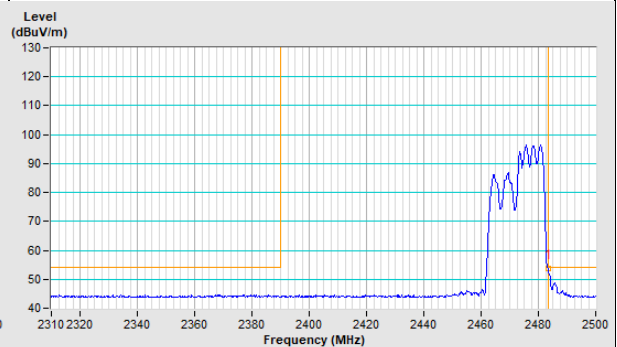


20MHz Preamble 802.11ax (RU106) Channel 13

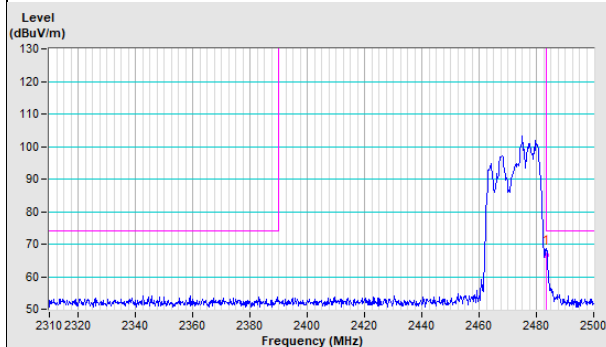
Horizontal (Peak)



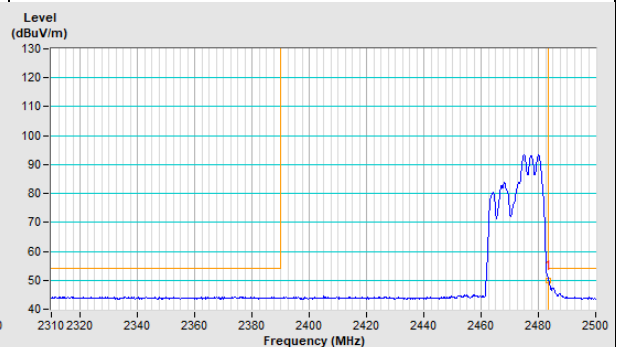
Horizontal (Average)



Vertical (Peak)



Vertical (Average)



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 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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