



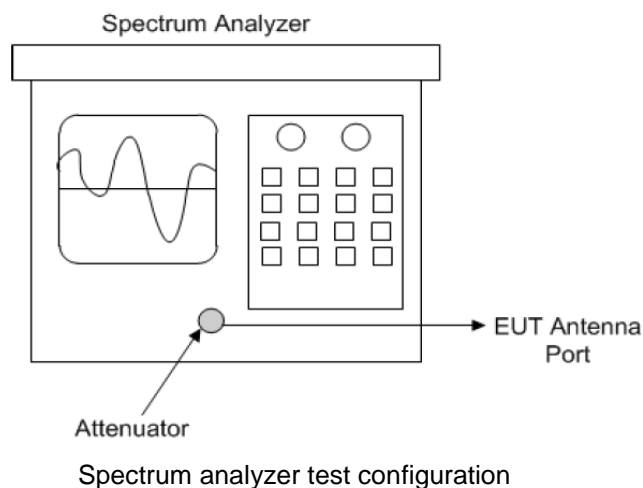
3.7 Conducted Out of Band Emission Measurement

3.7.1 Limits of Conducted Out of Band Emission Measurement

- a. **If the maximum peak conducted output power procedure was used to determine compliance as described in 11.9.1**, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 20 dBc).
- b. **If maximum conducted (average) output power was used to determine compliance as described in 11.9.2**, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 30 dBc).

3.7.2 Test Setup

- DTS emissions in non-restricted frequency bands Subclause 11.11 of ANSI C63.10 is applicable.
- DTS emissions in restricted frequency bands Subclause 11.12 of ANSI C63.10 is applicable



3.7.3 Test Instruments

Refer to section 5 to get information of above instrument.



3.7.4 Test Procedure

a. Establish a reference level by using the following procedure:

- 1) Set instrument center frequency to DTS channel center frequency.
- 2) Set the span to 21.5 times the DTS bandwidth)
- 3) Set the RBW= 100 kHz)
- 4) Set the VBW $\geq 3 \times$ RBW
- 5) Detector = peak
- 6) Sweep time = auto coupling
- 7) Trace mode =max hold
- 8) Allow trace to fully stabilize
- 9) Use the peak marker function to determine the maximum PSD level.

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

b. Establish an emission level by using the following procedure:

- 1) Set the center frequency and span to encompass frequency range to be measured.
- 2) Set the RBW = 100 kHz
- 3) Set the VBW ≥ 300 kHz.
- 4) Detector = peak.
- 5) Sweep time = auto couple.
- 6) Trace mode = max hold.
- 7) Allow trace to fully stabilize.
- 8) Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

3.7.5 Deviation from Test Standard

No deviation.

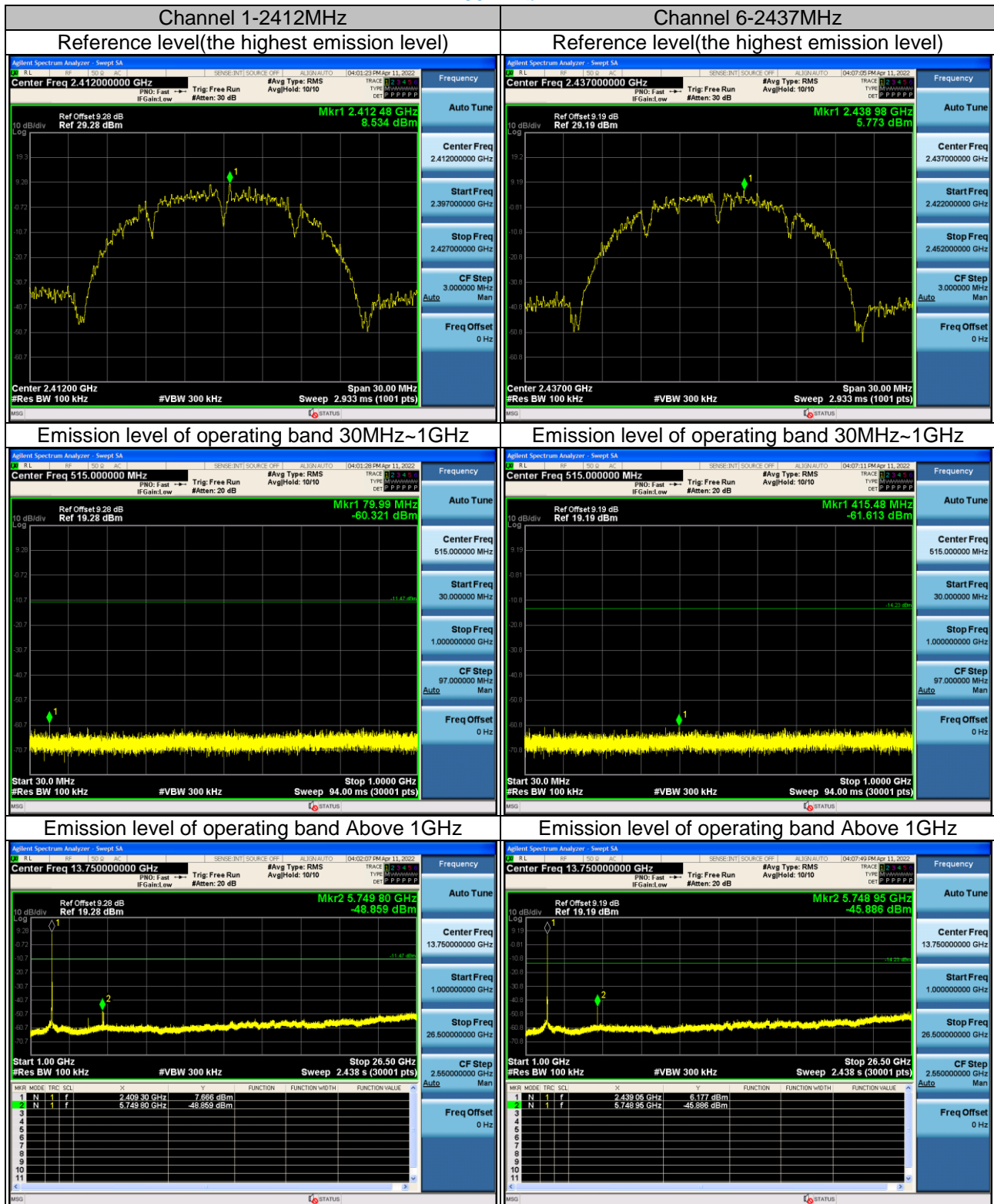
3.7.6 EUT Operating Condition

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



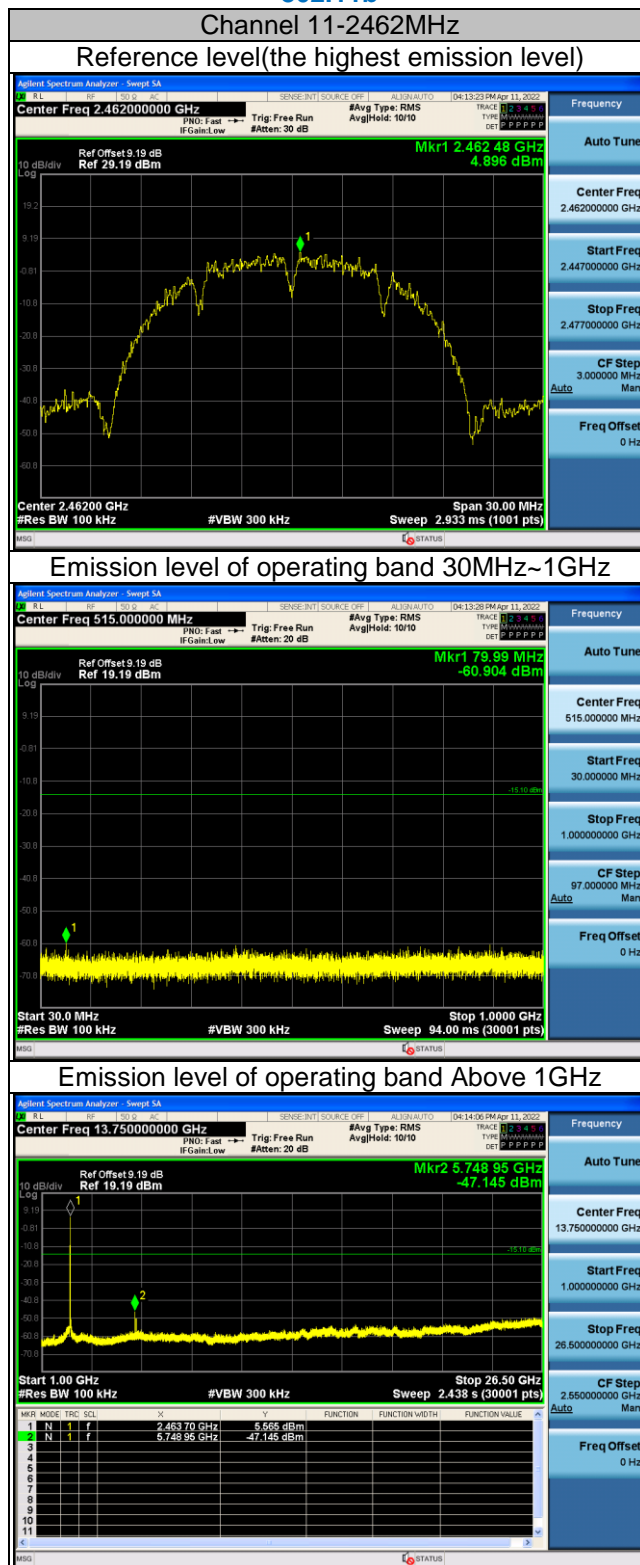
3.7.7 Test results

802.11b



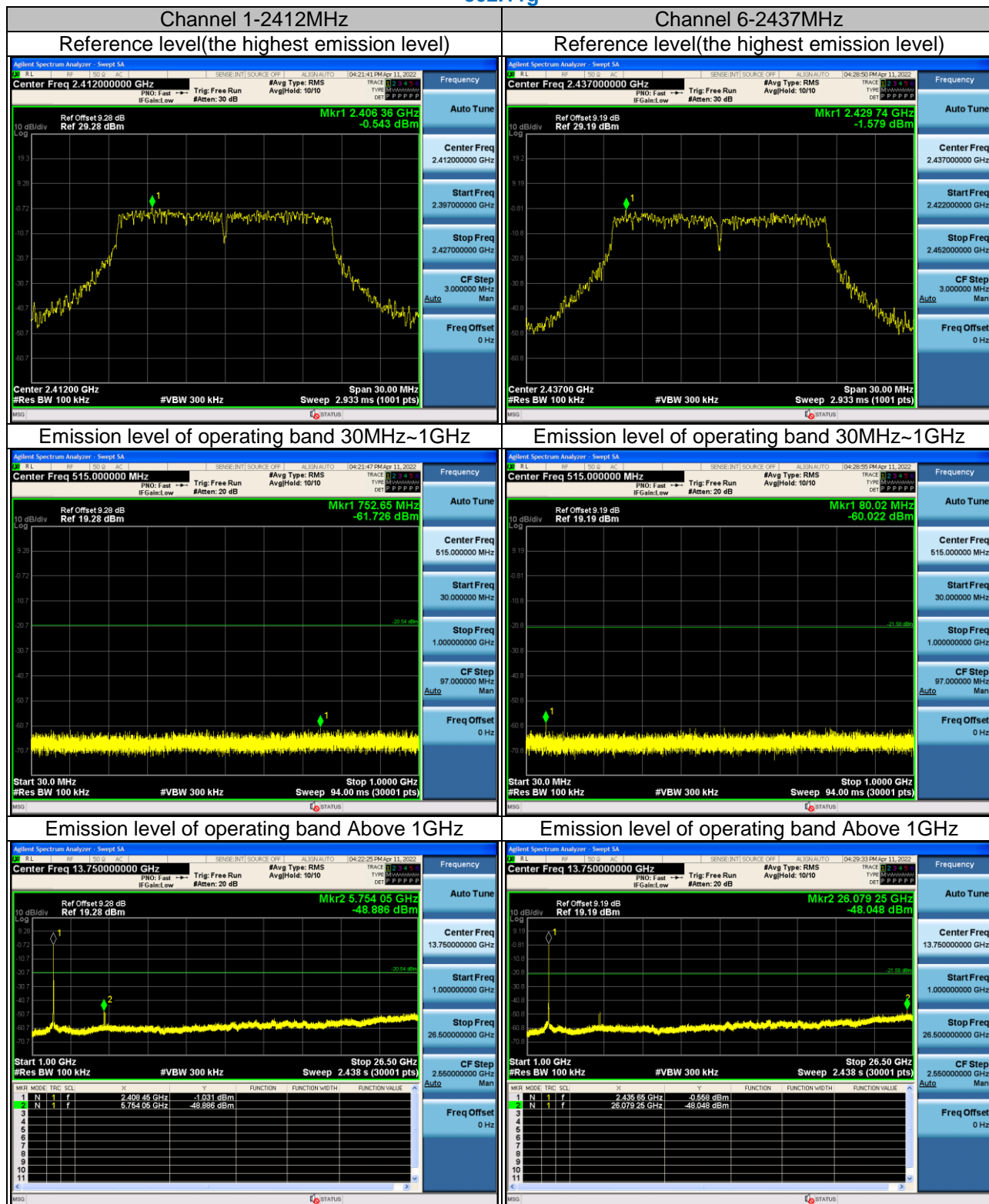


802.11b



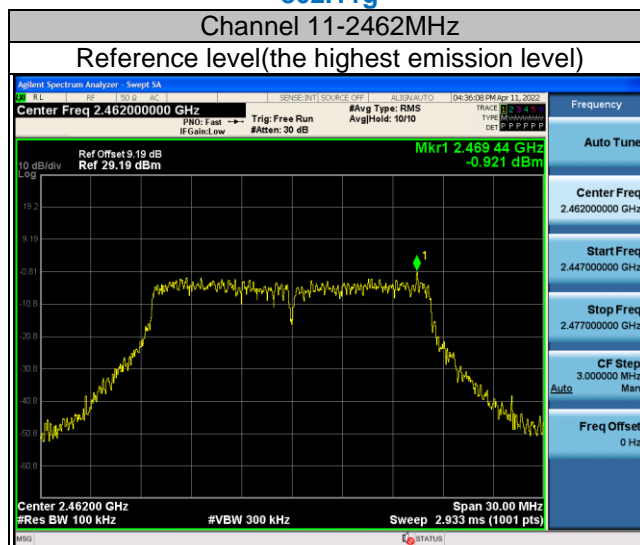


802.11g

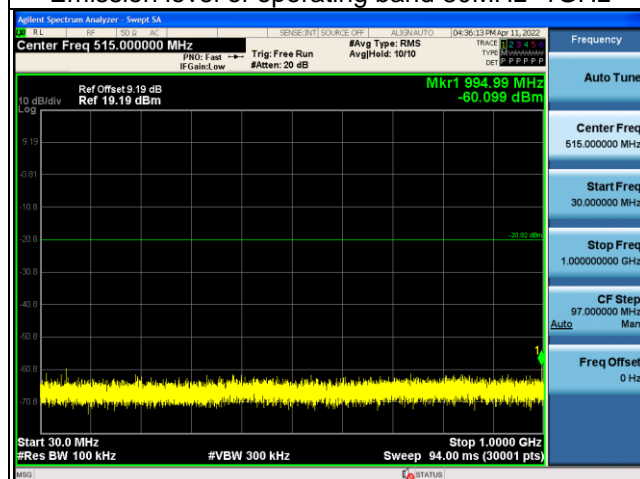




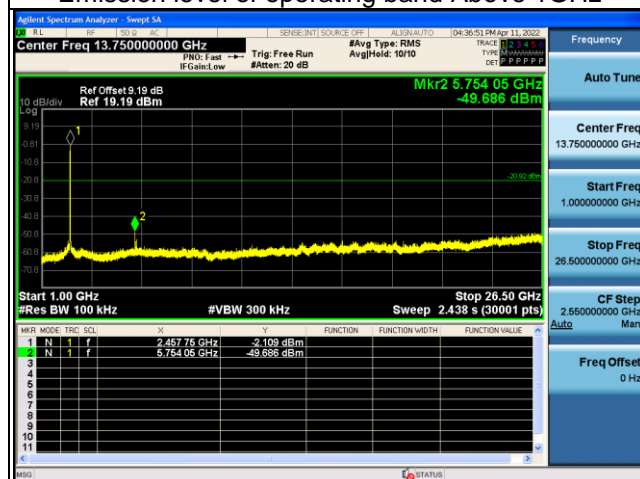
802.11g



Emission level of operating band 30MHz~1GHz

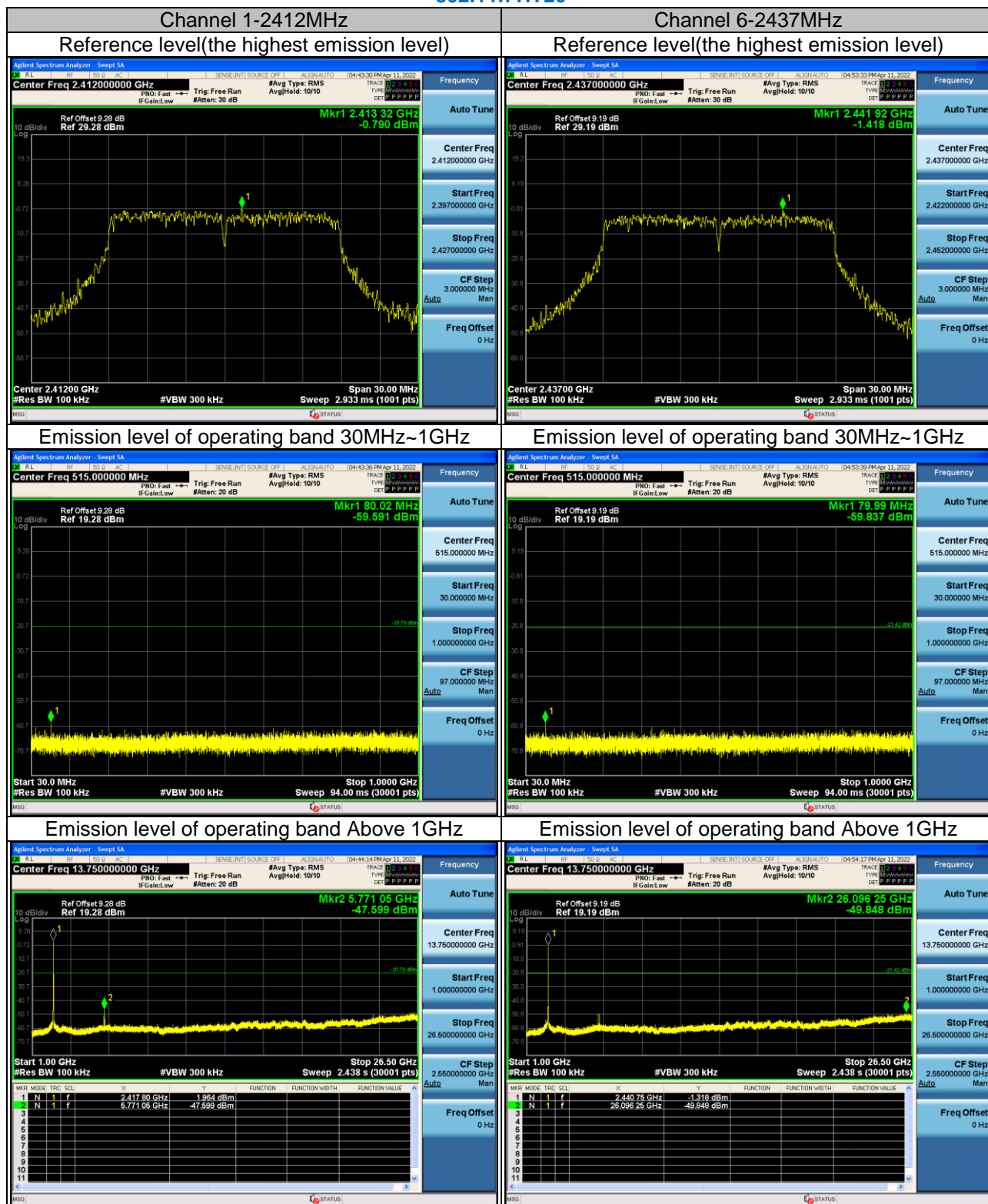


Emission level of operating band Above 1GHz



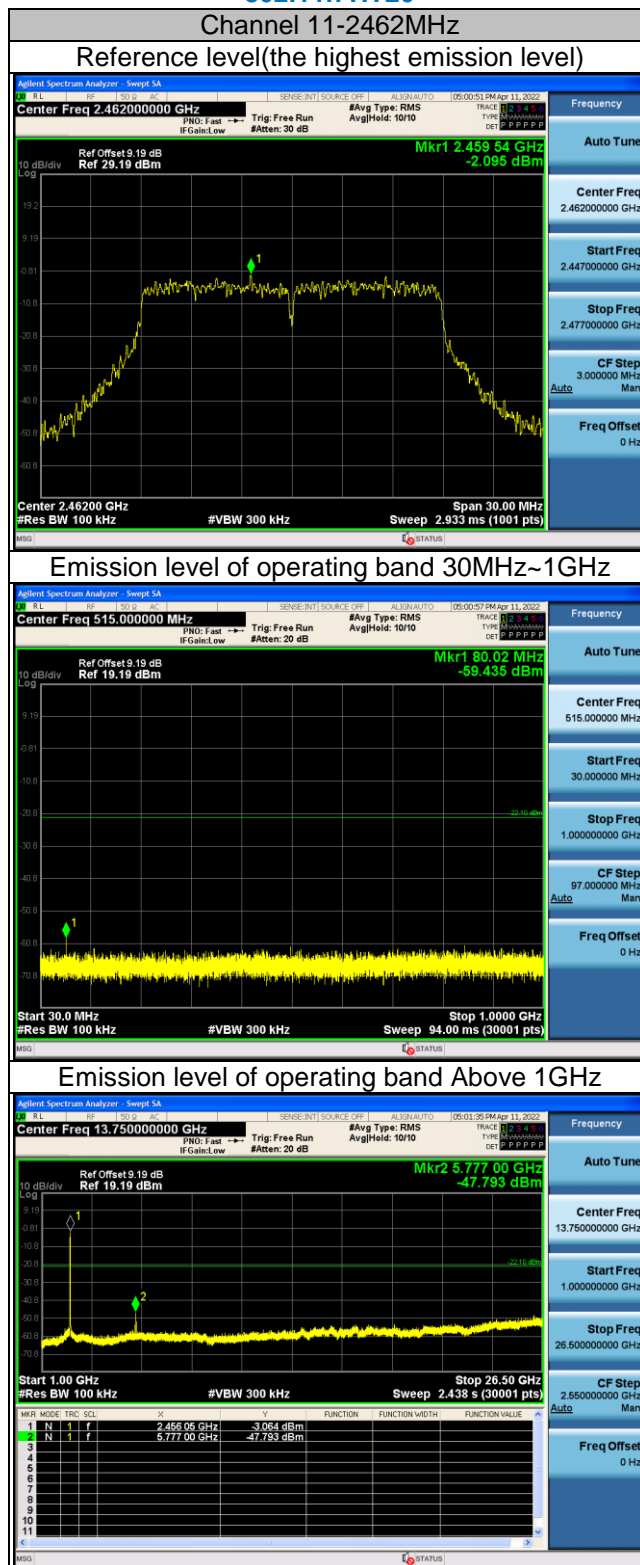


802.11n HT20



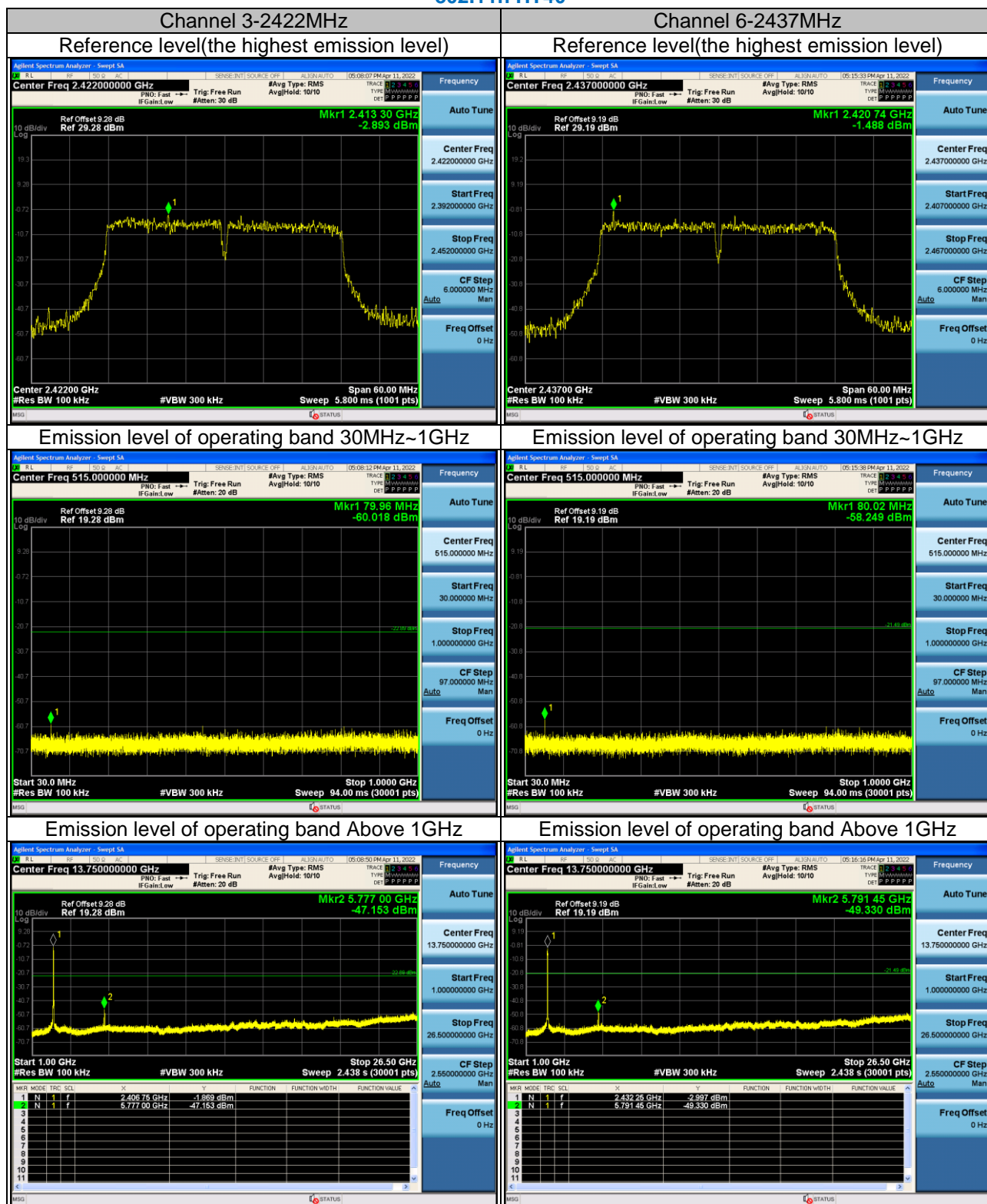


802.11n HT20



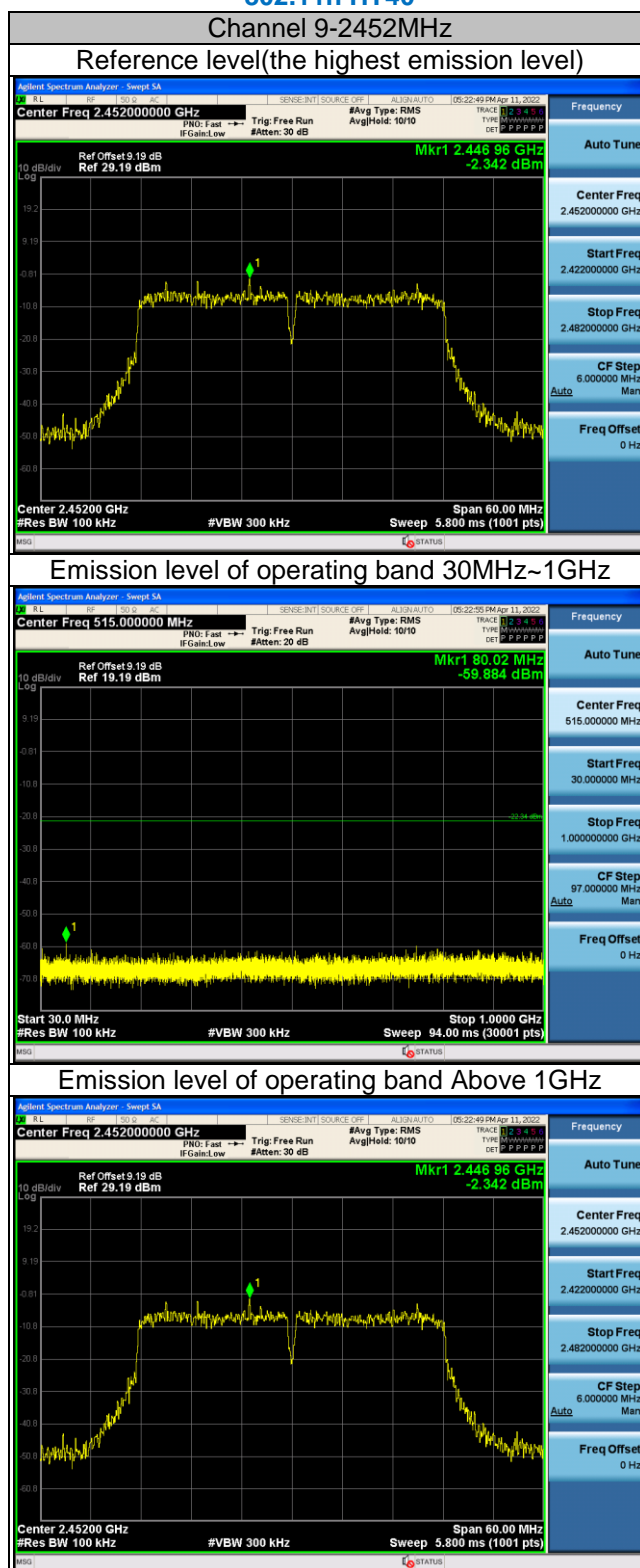


802.11n HT40

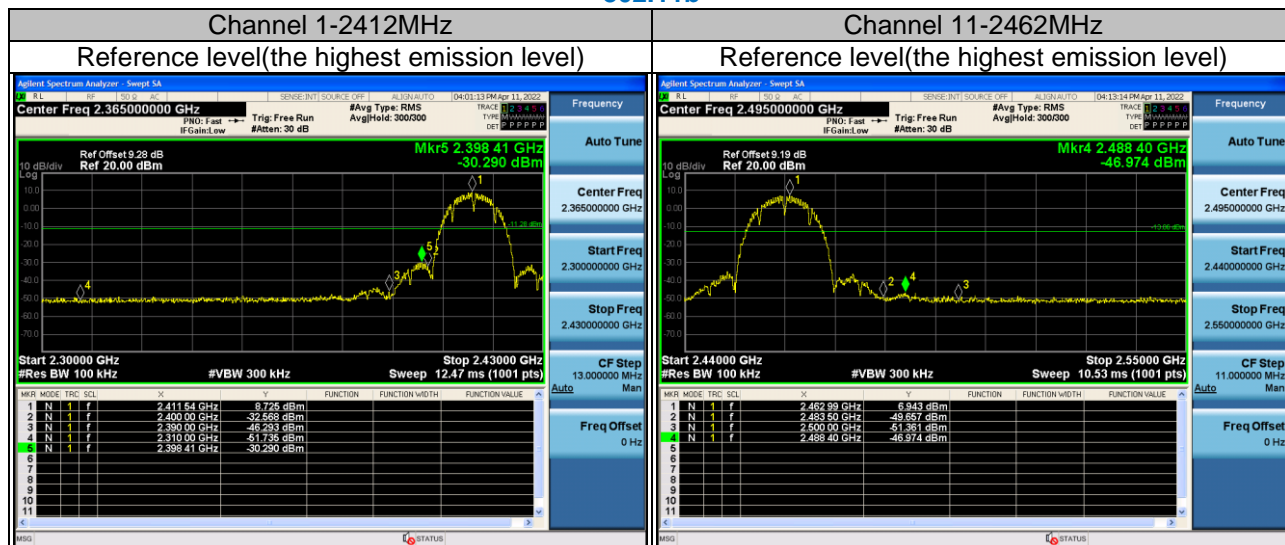




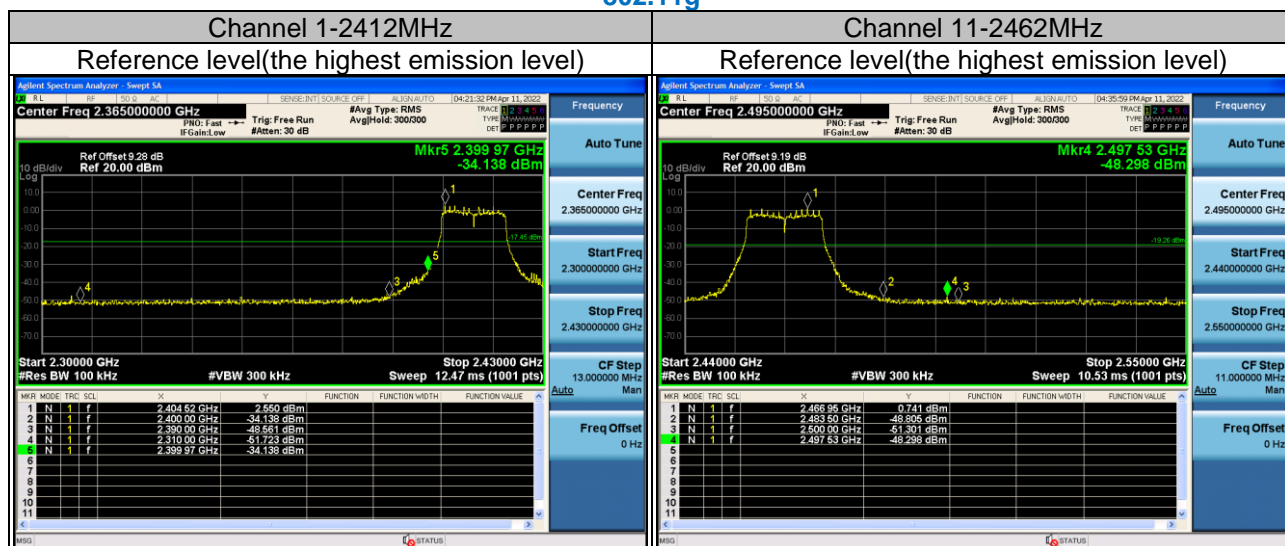
802.11n HT40



Band-edge 802.11b

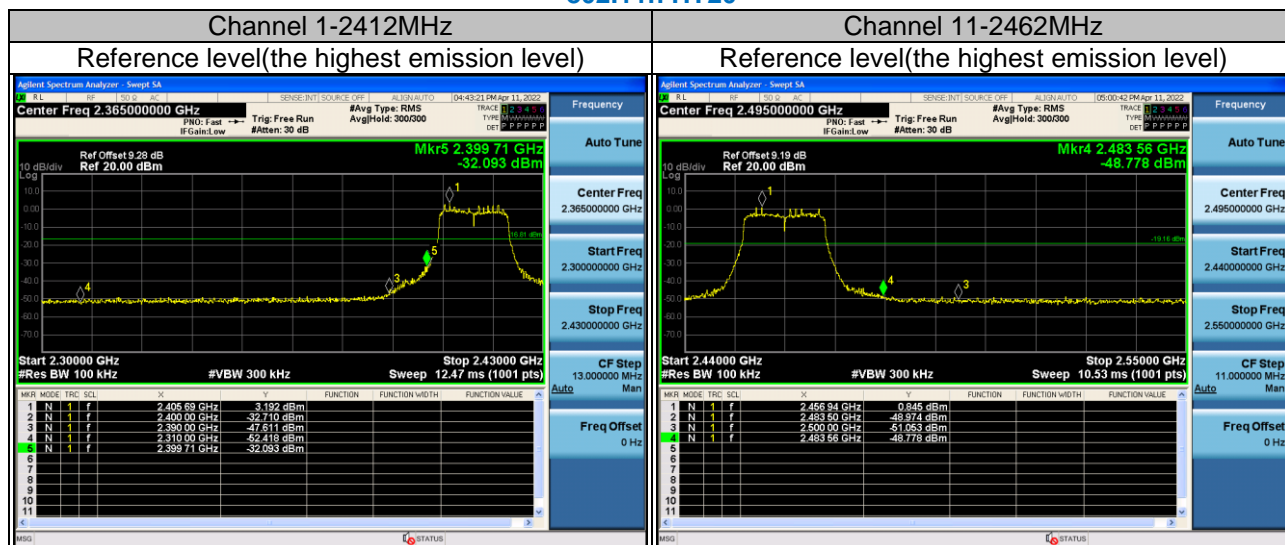


802.11g

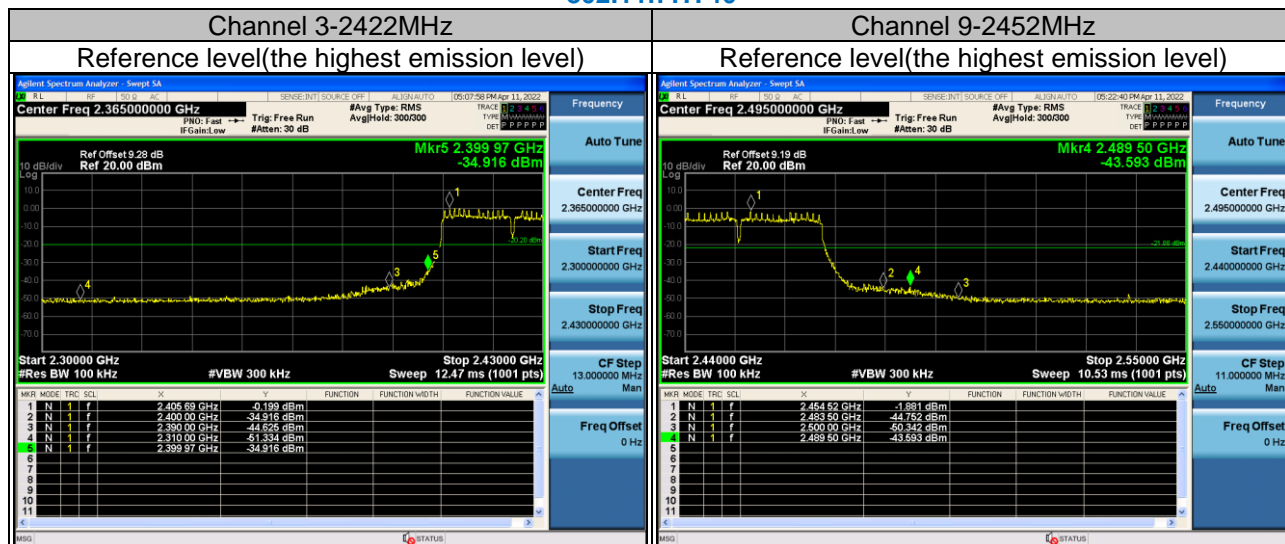




802.11n HT20



802.11n HT40





4. Pictures of Test Arrangements

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



5. Test Instruments

| Description & Manufacturer | Model No. | Serial No. | Due Date of Calibration |
|---------------------------------|-----------|------------|-------------------------|
| Spectrum Keysight | N9020A | MY51240612 | 2021/09/16 |
| Spectrum Analyzer Rohde&Schwarz | FSV-40N | 101783 | 2021/09/16 |
| Power Meter 10Hz~18GHz Tonscend | JS0806-2 | 188060126 | 2021/09/16 |
| Signal generator Keysight | E4421B | GB40051020 | 2021/09/16 |
| Signal generator Keysight | N5182A | MY47420944 | 2021/09/16 |
| Test Software Tonscend | JS0806-2 | NA | NA |
| Hygrothermograph Yuhuaze | HTC-1 | NA | 2021/09/16 |

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA.
2. The test was performed in Chamber 1.



Appendix – Information on The Testing Laboratories

We, [Hwa-Hsing \(Dongguan\) Co., Ltd.](#), A global provider of TESTING and CERTIFICATION services for consumer products, electronic products and wireless information technology products. Adhering to the core values “HONEST and TRUSTWORTHY, OBJECTIVE and IMPARTIALITY, RIGOROUS and AFFICIENT”, commitment to provide professional, perfect and efficient comprehensive ONE-STOP solution of TESTING and CERTIFICATION services for Manufacturers, Buyers, Traders, Brands, Retailers. Assist client to better manage risk, protect their brands, reduce costs and cut time to over 150 markets in global. Our laboratories are FCC recognized accredited test firms and accredited and approved according to ISO/IEC 17025.

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

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