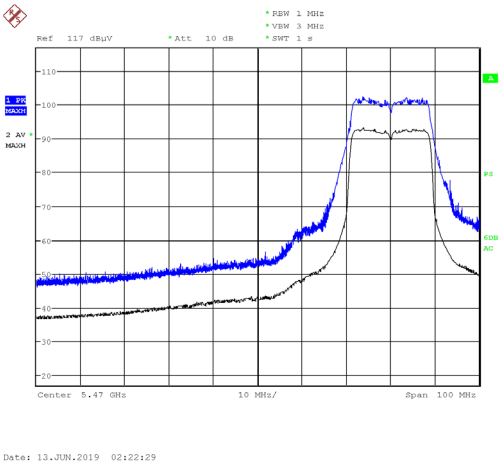
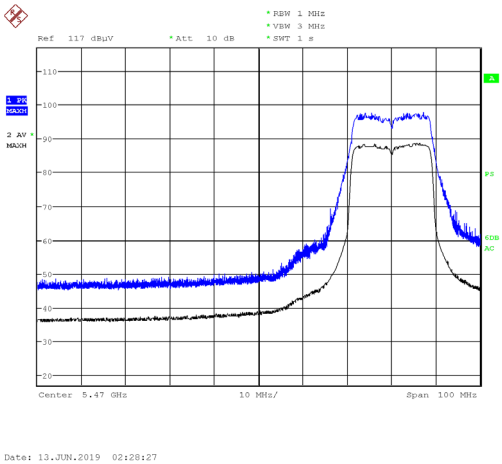
[ 802.11ac (VHT20)/ 5500 MHz ]

Horizontal

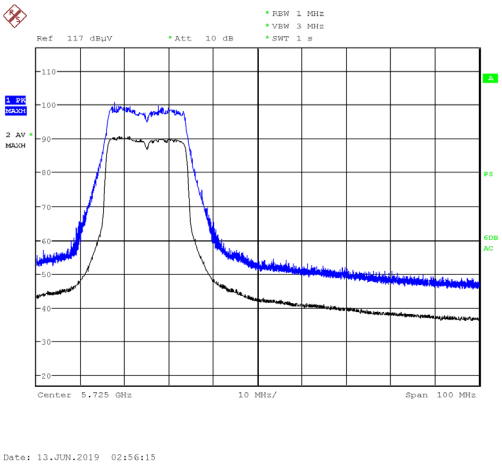



Vertical

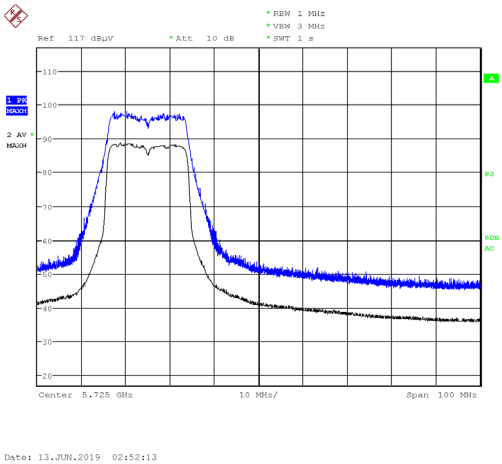



[ 802.11ac (VHT20)/ 5700 MHz ]

Horizontal

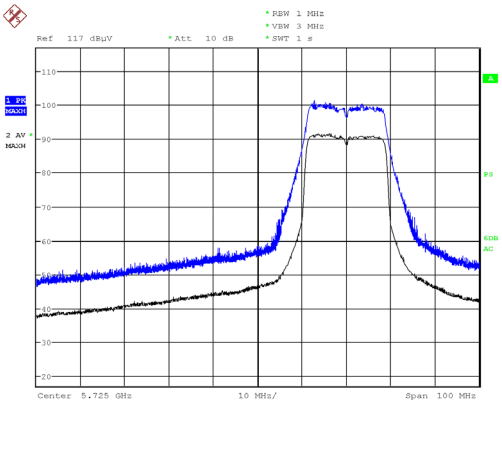



Vertical

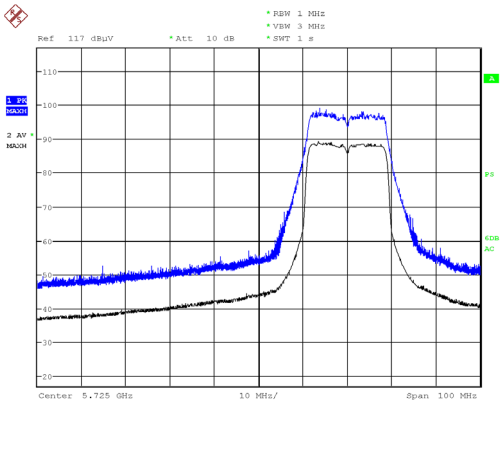



[ 802.11ac (VHT20)/ 5745 MHz ]

Horizontal

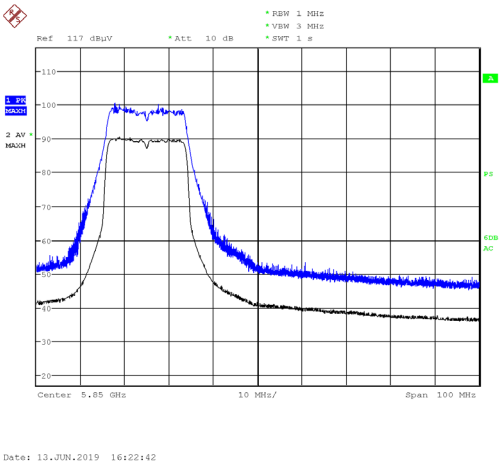



Vertical

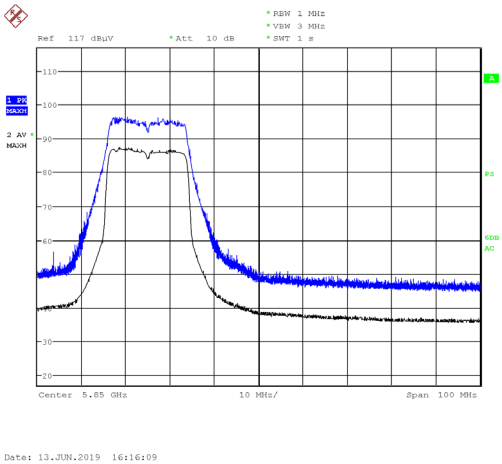


[ 802.11ac (VHT20)/ 5825 MHz ]

Horizontal

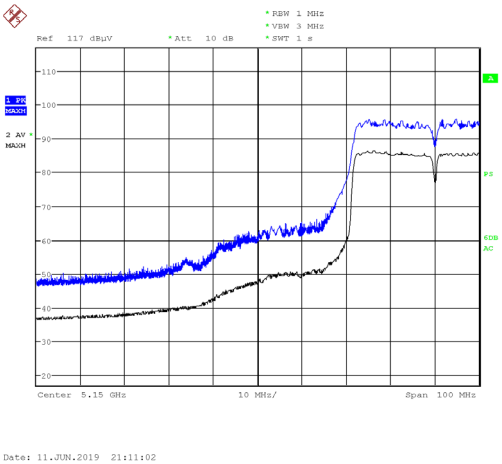



Vertical

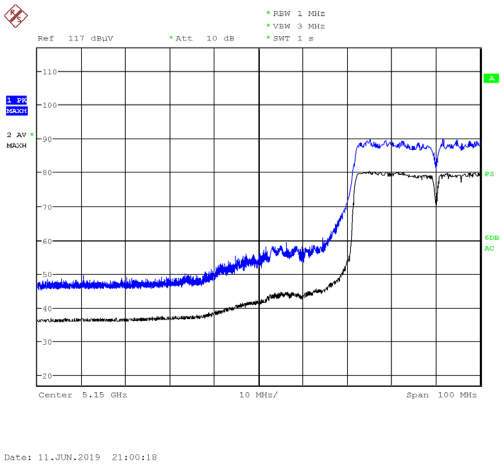



[ 802.11n (HT40)/ 5190 MHz ]

Horizontal

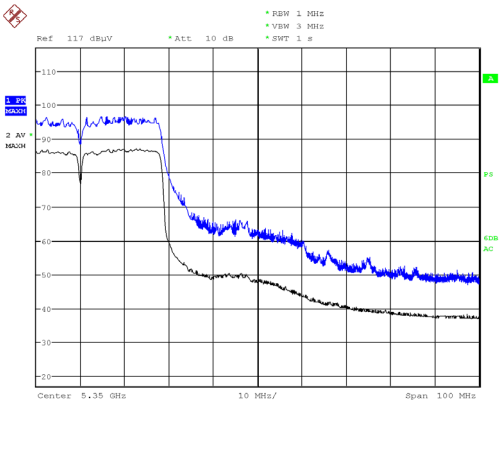



Vertical

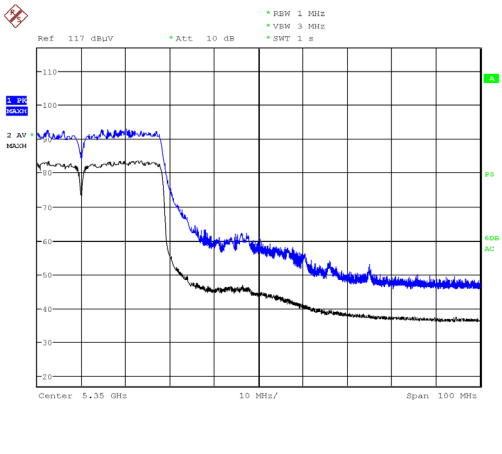



[ 802.11n (HT40)/ 5310 MHz ]

Horizontal

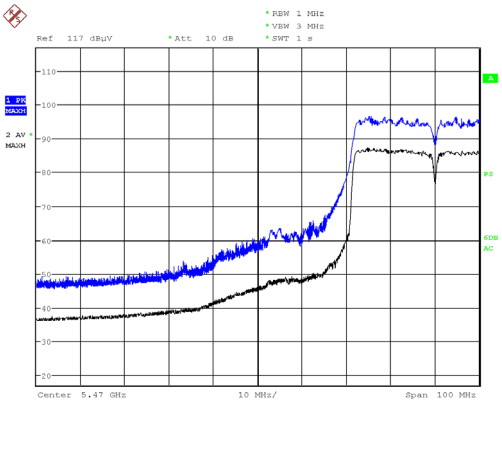



Vertical

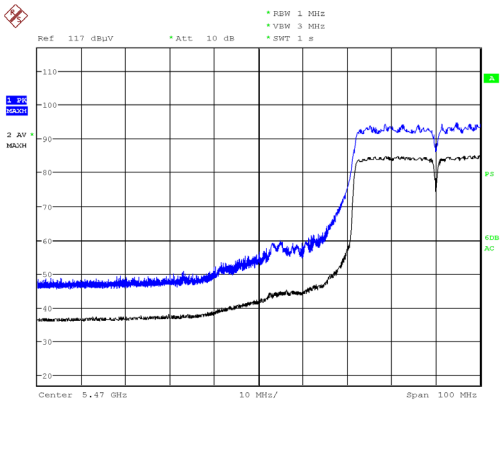


[ 802.11n (HT40)/ 5510 MHz ]

Horizontal

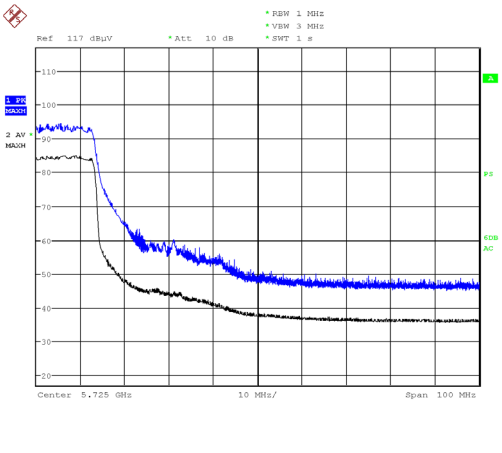



Vertical

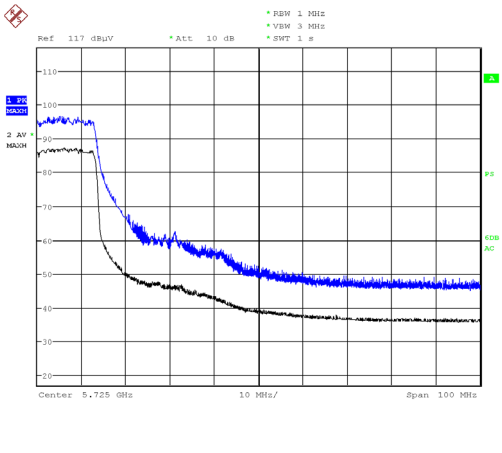



[ 802.11n (HT40)/ 5670 MHz ]

Horizontal

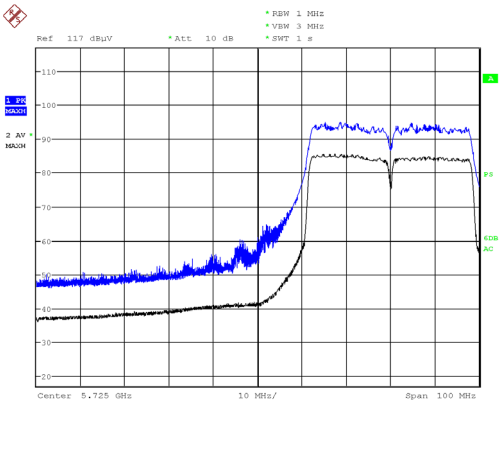



Vertical

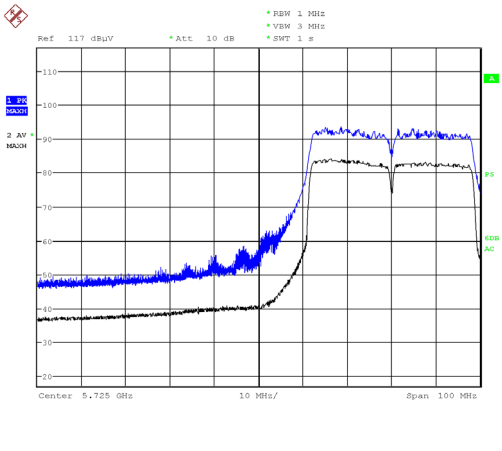



[ 802.11n (HT40)/ 5755 MHz ]

Horizontal

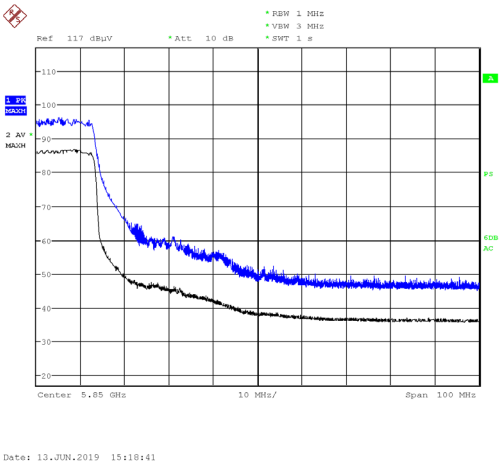



Vertical

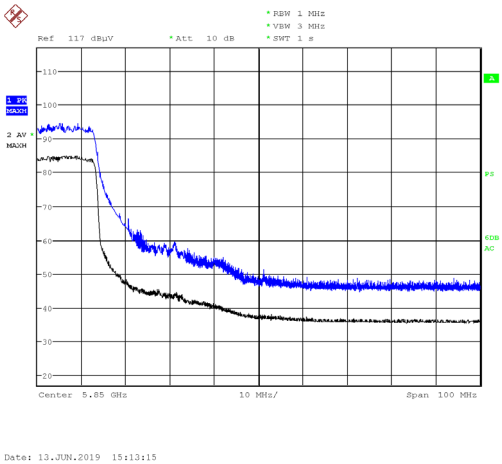


[ 802.11n (HT40)/ 5795 MHz ]

Horizontal

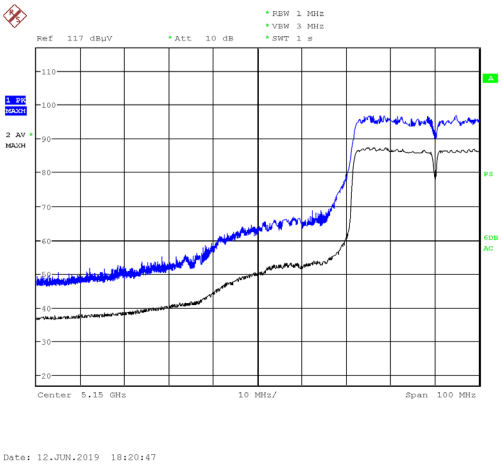



Vertical

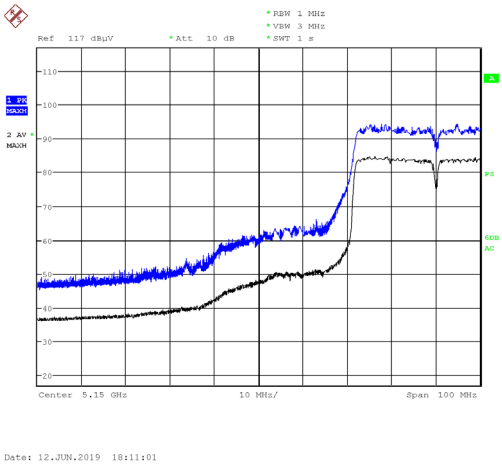



[ 802.11ac (VHT40)/ 5190 MHz ]

Horizontal

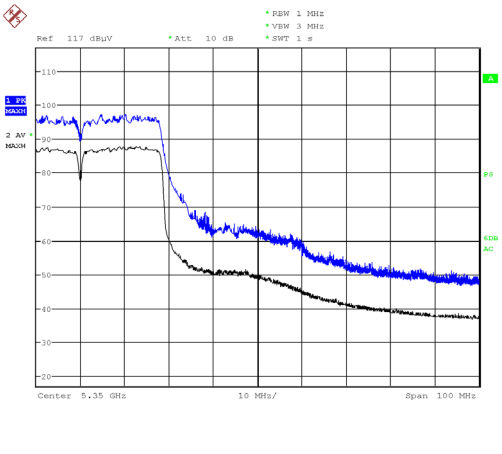



Vertical

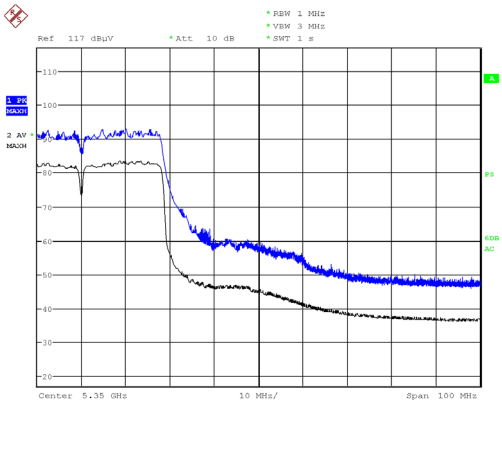



[ 802.11ac (VHT40)/ 5310 MHz ]

Horizontal

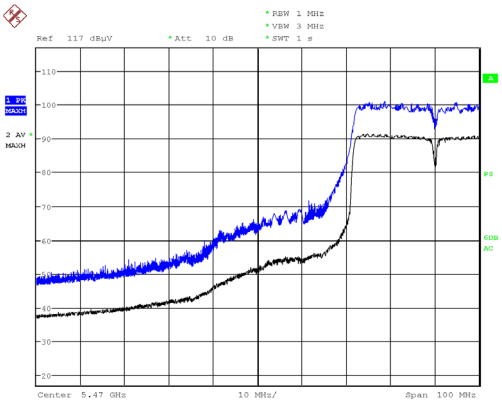



Vertical

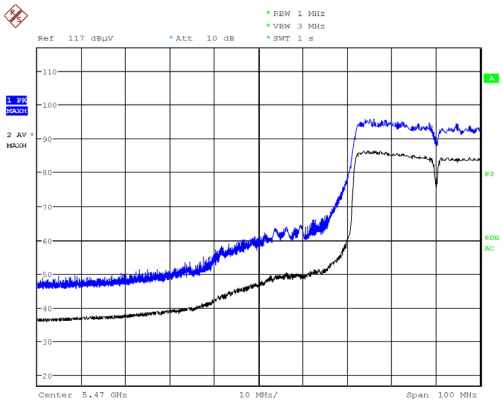


[ 802.11ac (VHT40)/ 5510 MHz ]

Horizontal

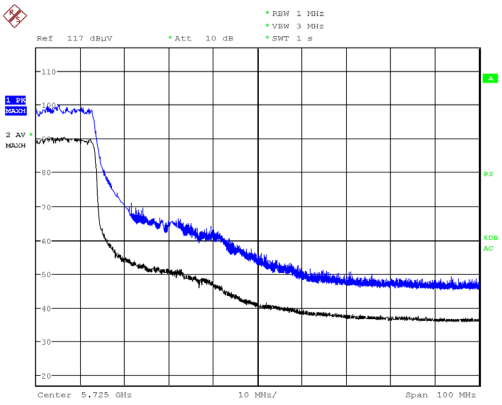



Vertical

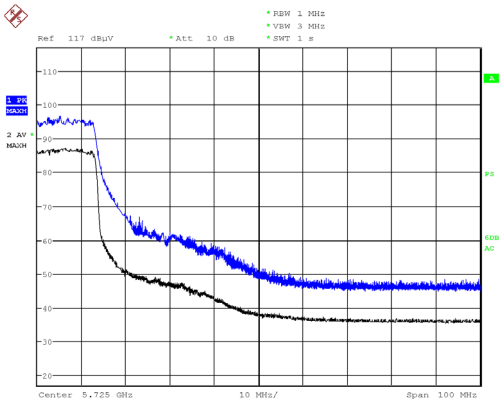



[ 802.11ac (VHT40)/ 5670 MHz ]

Horizontal

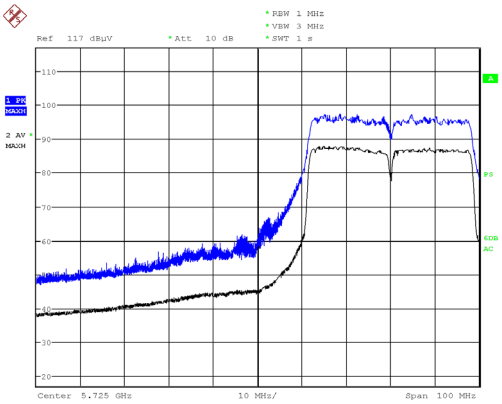



Vertical

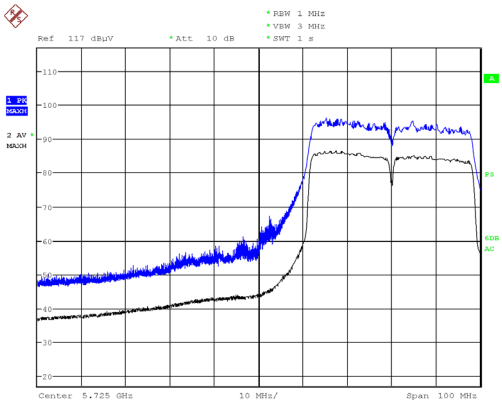



[ 802.11ac (VHT40)/ 5755 MHz ]

Horizontal

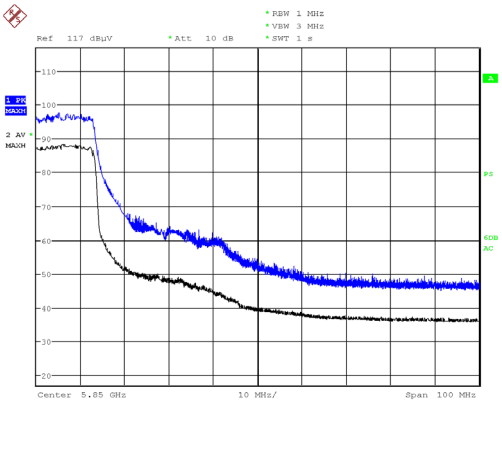



Vertical

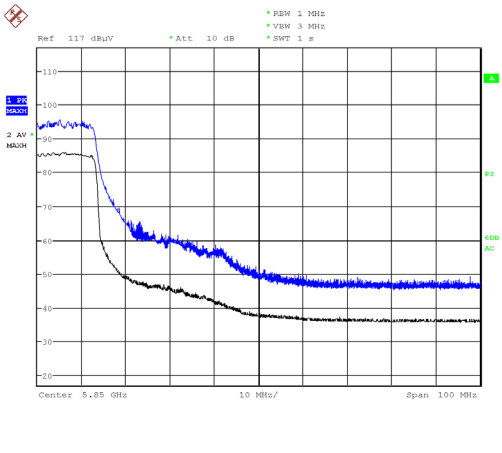


[ 802.11ac (VHT40)/ 5795 MHz ]

Horizontal

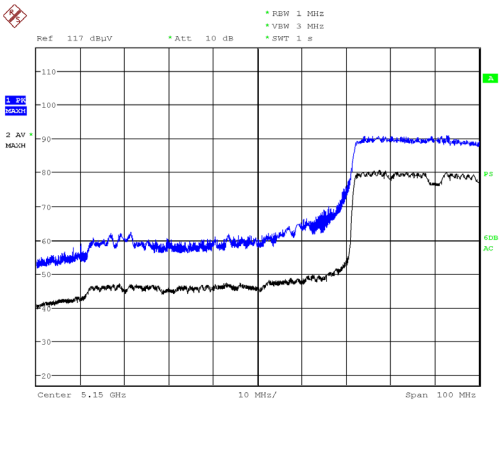



Vertical

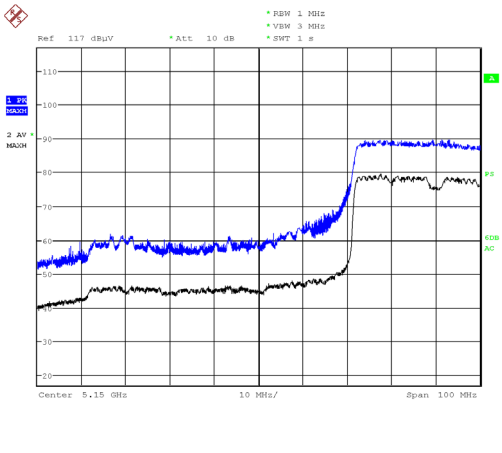



[ 802.11ac (VHT80)/ 5210 MHz ]

Horizontal

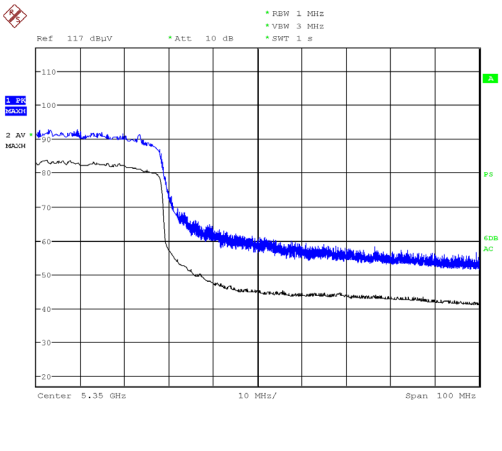



Vertical

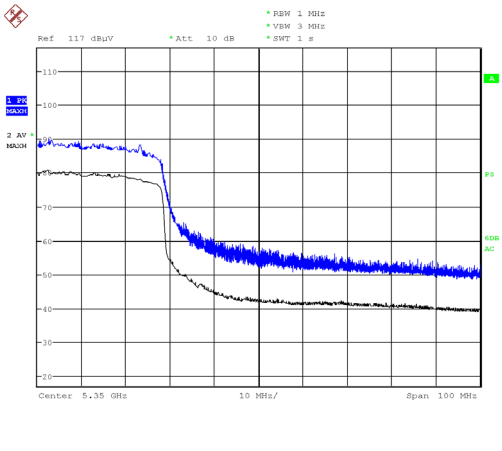



[ 802.11ac (VHT80)/ 5290 MHz ]

Horizontal

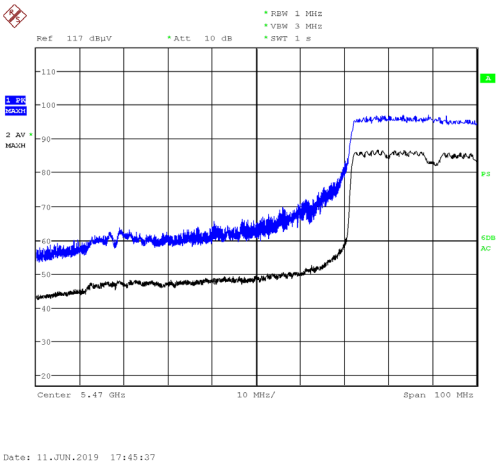



Vertical

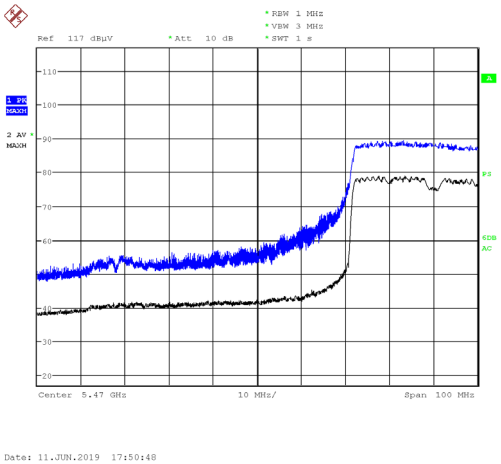


[ 802.11ac (VHT80)/ 5530 MHz ]

Horizontal

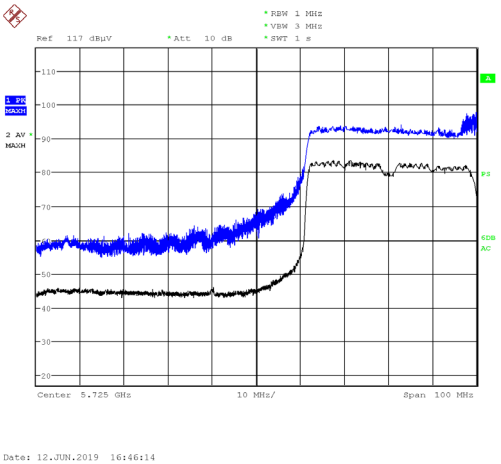



Vertical

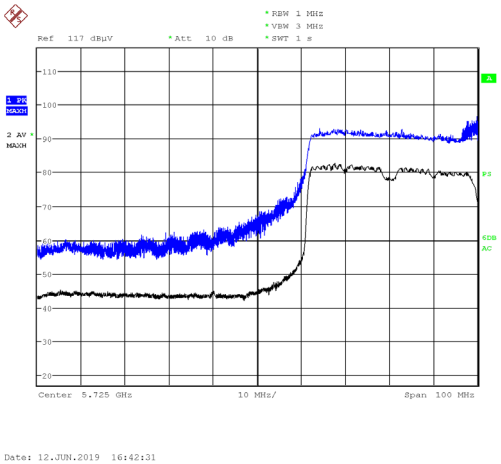


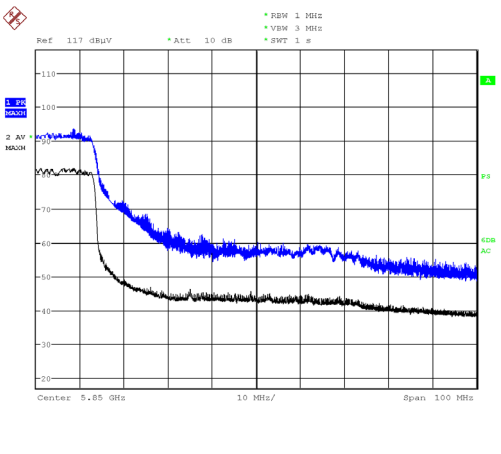

[ 802.11ac (VHT80)/ 5775 MHz ]

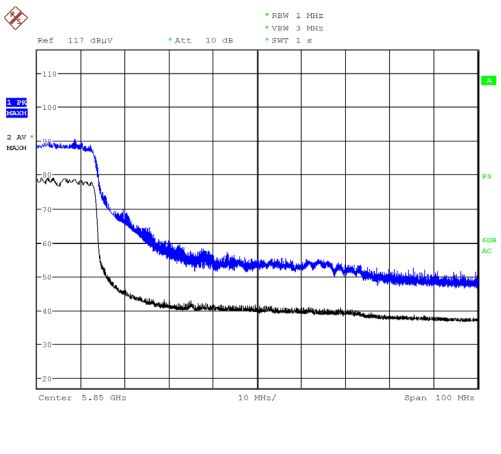
Horizontal




Vertical



# 4. Method of Calculation

## 4.1. AC Power-line Conducted Emissions

Method of calculation : Software
Software Name : EP5/ CE
Software Version : Ver5.0.0

Test Result [ dBuV ] = Meter Reading [ dBuV ] + C.F. [ dB ]

Note (a) Meter Reading : Reading of the EMI test receiver.
(b) C.F. : System Loss + Correction Factor of LISN

## 4.2. Maximum Conducted Output Power

Method of calculation : Software
Software Name : SW-0304
Software Version : Ver.3

Conducted Output Power Result [ dBm ] = Meter Reading [ dBm ] + C.F. [ dB ] + Duty Factor [ dB ]
EIRP Result [ dBm ] = Conducted Output Power Result [ dBm ] + Ant. Gain [ dBi ]

Note (a) Meter Reading : Reading of the power meter
(b) C.F. : System Cable Loss + EUT Cable Loss
(c) Duty Factor : 10log {(Tx ON Time + Tx OFF Time) / (Tx ON Time)}

## 4.3. Maximum Power Spectral Density

Method of calculation : Software
Software Name : SW-0304
Software Version : Ver.3

Power Spectral Density Result [ dBm ] = Meter Reading [ dBm ] + C.F. [ dB ] + RBW Factor [ dB ]
Power Spectral Density (EIRP) Result [ dBm ] = Power Spectral Density Result [ dBm ] + Ant. Gain [ dBi ]

Note (a) Meter Reading : Reading of the spectrum analyzer
(b) C.F. : System Cable Loss + EUT Cable Loss
(c) RBW Factor : 10log (1 [ MHz ] / RBW)

## 4.4. Unwanted Emissions

Method of calculation : Software
Software Name : V-Scan
Software Version : Ver.4.0.30

Test Result [ dBuV/ m ] = Meter Reading [ dBuV ] + C.F. [ dB/ m ]

Note (a) Meter Reading : Reading of the EMI test receiver or spectrum analyzer.
(b) C.F. : ☒ Antenna Factor (including Balun Loss) + System GainLoss
: ☐ Antenna Factor (including Balun Loss) + System GainLoss + 20 log (3 m/ 10 m)

# 5. List of Test Equipment

All test results are traceable to the national and/ or international standards.

## 5.1. AC Power-line Conducted Emissions

| | Ctrl.# | Equipment | Model No. | Serial No. | Manufacturer | Cal.Interval | Last Cal. |
|---|---|---|---|---|---|---|---|
| x | CS0015 | EMC-CE Cable System 1 | - | - | - | 12 months | 18.11.04 |
| x | M0663 | 6dB Attenuator | 6806.01A | - | HUBER+SUHNER | 12 months | 18.11.04 |
| x | M0569 | HIGH FREQUENCY FUSE | MP612A | - | Anritsu | 12 months | 18.11.04 |
| x | M0130 | RF Selector | NS4902SR | 109001 | Toyo Corporation | 12 months | 18.11.04 |
| x | M0605 | LISN/AMN | ENV216 | 101305 | Rohde & Schwarz | 12 months | 18.10.01 |
| x | M5062 | Scientific Ambient Monitor | 0560 6220 | 39515563/802 | testo | 12 months | 18.07.17 |
| x | M0515 | EMI Receiver | ESCI | 100606 | Rohde & Schwarz | 12 months | 18.10.01 |
| x | M5080 | Temperature Meter | 608-H2 | 41476135 | testo | 12 months | 18.10.18 |

## 5.2. Antenna-port Conducted Measurements

| | Ctrl.# | Equipment | Model No. | Serial No. | Manufacturer | Cal.Interval | Last Cal. |
|---|---|---|---|---|---|---|---|
| - | W0140 | Spectrum Analyzer | FSU26 | 200717 | Rohde & Schwarz | 12 months | 18.09.01 |
| x | W0100 | Spectrum Analyzer | MS2692A | 6201338954 | Anritsu | 12 months | 19.05.19 |
| | W0101 | Signal Analyzer | MS2692A | 6201338955 | Anritsu | 12 months | 19.05.19 |
| x | W0110 | 10dB Attenuator | 6610-SK-50-1 | 0002 | Huber + Suhner | 12 months | 18.09.01 |
| x | W0006 | Power Meter | N1911A | MY50000295 | Agilent Technologies | 12 months | 18.10.06 |
| x | W0007 | Power Sensor | N1922A | MY50180022 | Agilent Technologies | 12 months | 18.10.06 |
| x | W0029 | 10dB Attenuator | 8493C | 76549 | Agilent Technologies | 12 months | 18.09.01 |
| - | WC0002 | RF Cable | SUCOFLEX 102 | 34124/2 | HUBER + SUHNER | 12 months | 18.09.01 |
| - | WC0003 | RF Cable | SUCOFLEX 102 | 34127/2 | HUBER + SUHNER | 12 months | 18.09.01 |
| x | WC0004 | RF Cable | SUCOFLEX 102 | 34288/2 | HUBER + SUHNER | 12 months | 18.09.01 |
| x | WC0005 | RF Cable | SUCOFLEX 102 | 34287/2 | HUBER + SUHNER | 12 months | 18.09.01 |
| - | WC0006 | RF Cable | SUCOFLEX 102 | 34289/2 | HUBER + SUHNER | 12 months | 18.09.01 |
| - | WC0007 | RF Cable | SUCOFLEX 102 | 34286/2 | HUBER + SUHNER | 12 months | 18.09.01 |
| x | M0720 | Thermometer | TH-321 | 140036 | AS ONE | 12 months | 18.07.20 |

## 5.3. Unwanted Emissions

| | Ctrl.# | Equipment | Model No. | Serial No. | Manufacturer | Cal.Interval | Last Cal. |
|---|---|---|---|---|---|---|---|
| x | M0970 | EMI Receiver | ESCI | 100511 | Rohde & Schwarz | 12 months | 19.03.19 |
| x | M0504 | EMI Receiver | ESU40 | 100086 | Rohde & Schwarz | 12 months | 18.11.19 |
| x | A0073 | Loop Antenna | HFH2-Z2 | 100171 | Rohde & Schwarz | 12 months | 18.12.10 |
| x | A0043 | Biconical Antenna | BBA9106 | V5(91032598) | Schwarzbeck | 12 months | 18.12.03 |
| x | A0046 | Log periodic Antenna | UHALP9108A1 | 0830 | Schwarzbeck | 12 months | 18.12.03 |
| x | A0056 | Horn Antenna | BBHA9120D | 670 | Schwarzbeck | 12 months | 19.06.01 |
| x | A0057 | Horn Antenna | HAP06-18W | 00000037 | Toyo Corporation | 12 months | 19.06.01 |
| x | A0058 | Horn Antenna | HAP18-26W | 00000016 | Toyo Corporation | 12 months | 18.06.01 |
| x | A0060 | Horn Antenna | HAP26-40W | 00000009 | Toyo Corporation | 12 months | 18.06.01 |
| - | CS0037 | Fourth Site RE Cable SYS1 | - | - | - | 12 months | 19.06.01 |
| x | CS0039 | Fourth Site RE Cable SYS3 | - | - | - | 12 months | 19.06.01 |
| x | CS0054 | Fourth Site EMF Cable SYS | - | - | - | 12 months | 19.06.01 |
| x | M1055 | GHz Filter Box | WSF-109 | 17111786 | Wakoh | 12 months | 19.06.01 |
| x | M0510 | RF Selector | NS4900 | 0802-226 | Toyo Corporation | 12 months | 19.06.01 |
| x | M0620 | RF Pre-Amp | 8447D | 2944A10720 | Agilent | 12 months | 19.06.01 |
| x | M0706 | 3dB Attenuator | 8491A | MY39267782 | Agilent | 12 months | 19.06.01 |
| x | M5151 | Temperature Meter | 608-H2 | 41475968 | testo | 12 months | 18.11.08 |
| x | M5061 | Scientific Ambient Monitor | 0560 6220 | 39515471/801 | testo | 12 months | 18.07.17 |

About calibration interval

Valid until the end of the month listed in “Cal. Int.” column.