

APPENDIX B – TEST DATA OF RADIATED EMISSION

Radiated Emission Band Edge

In order to find the worst case condition, Pre-tests are needed at the presence of different data rate. Data rate below means worst-case rate of each test item.

Worst-case data rates are shown as following table.

Test Mode	Data Rate
802.11a	6Mbps
802.11n HT20	MCS0(6.5 Mbps)
802.11n HT40	MCS0(13.5 Mbps)
802.11ac VHT20	MCS0(6.5 Mbps)
802.11ac VHT40	MCS0(13.5 Mbps)
802.11ac VHT80	MCS0(29.3 Mbps)

We chose the Worst-modes are shown as following table:

Test Mode	Chain	Note
802.11a	Chain1	---
802.11n HT20	Chain0+Chain1	Cover 802.11ac VHT20
802.11ac VHT40	Chain0+Chain1	Cover 802.11n HT40
802.11ac VHT80	Chain0+Chain1	---

The measurement results are obtained as described below:

Note: The scanned graph represents the maximum of both horizontal and vertical polarizations and is not a single horizontal or vertical polarization scan.

Note: There were no emissions above 18GHz found within 20dB of the limit. Thus the test result was not reported according to §15.31 (o)

The measurement results are obtained as described below:

Measure Level = Reading Level + Cable loss + Antenna factor Sample calculation:
(100.40 dBuV/m) = (53.50 dBμV) + (12.40 dB) + (34.50 dB), the corresponding frequency is 5180MHz.

【5150-5250】

● 802.11a

Carrier Frequency (MHz): 5180

Channel No.: 36

Test Mode: 802.11a

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5180.0	53.50	100.40	N/A	N/A	12.40	34.50
5150.0	-7.50	39.40	-34.60	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5180.0	49.40	96.30	N/A	N/A	12.40	34.50
5150.0	-14.60	32.30	-21.70	54.00	12.40	34.50

Carrier Frequency (MHz): 5240

Channel No.: 48

Test Mode: 802.11a

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5240.0	44.20	91.10	N/A	N/A	12.40	34.50
5250.0	15.10	62.00	-12.00	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5240.0	31.80	78.70	N/A	N/A	12.40	34.50
5250.0	0.50	47.40	-6.60	54.00	12.40	34.50

● 802.11n (HT20)

Carrier Frequency (MHz): 5180

Channel No.: 36

Test Mode: 802.11n (HT20)

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5180.0	40.00	86.90	N/A	N/A	12.40	34.50
5150.0	6.10	53.00	-21.00	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5180.0	27.50	74.40	N/A	N/A	12.40	34.50
5150.0	-8.10	38.80	-15.20	54.00	12.40	34.50

Carrier Frequency (MHz): 5240

Channel No.: 48

Test Mode: 802.11n (HT20)

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5240.0	45.80	92.70	N/A	N/A	12.40	34.50
5250.0	23.10	70.00	-4.00	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5240.0	34.10	81.00	N/A	N/A	12.40	34.50
5250.0	3.60	50.50	-3.50	54.00	12.40	34.50

● 802.11n (HT40)

Carrier Frequency (MHz): 5190
Channel No.: 38
Test Mode: 802.11n (HT40)
Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5190.0	44.40	91.30	N/A	N/A	12.40	34.50
5150.0	21.90	68.80	-5.20	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5190.0	32.00	78.90	N/A	N/A	12.40	34.50
5150.0	3.50	50.40	-3.60	54.00	12.40	34.50

Carrier Frequency (MHz): 5230
Channel No.: 46
Test Mode: 802.11n (HT40)
Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5230.0	42.50	89.40	N/A	N/A	12.40	34.50
5250.0	21.40	68.30	-5.70	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5230.0	28.70	75.60	N/A	N/A	12.40	34.50
5250.0	-5.00	41.90	-12.10	54.00	12.40	34.50

● **802.11ac (VHT80)**

Carrier Frequency (MHz): 5210
Channel No.: 42
Test Mode: 802.11ac (VHT80)
Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5210.0	39.40	86.30	N/A	N/A	12.40	34.50
5150.0	23.40	70.30	-3.70	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5210.0	24.90	71.80	N/A	N/A	12.40	34.50
5150.0	4.70	51.60	-2.40	54.00	12.40	34.50

【5250-5350】

● 802.11a

Carrier Frequency (MHz): 5260

Channel No.: 52

Test Mode: 802.11a

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5260.0	53.20	100.10	N/A	N/A	12.40	34.50
5240.0	17.60	64.50	-9.50	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5260.0	43.30	90.20	N/A	N/A	12.40	34.50
5240.0	4.30	51.20	-2.80	54.00	12.40	34.50

Carrier Frequency (MHz): 5320

Channel No.: 64

Test Mode: 802.11a

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5320.0	51.90	98.80	N/A	N/A	12.40	34.50
5340.0	8.90	55.80	-18.20	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5320.0	34.20	81.10	N/A	N/A	12.40	34.50
5340.0	-13.30	33.60	-20.40	54.00	12.40	34.50

● 802.11n (HT20)

Carrier Frequency (MHz): 5260

Channel No.: 52

Test Mode: 802.11n (HT20)

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5260.0	45.90	92.80	N/A	N/A	12.40	34.50
5240.0	25.20	72.10	-1.90	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5260.0	32.90	79.80	N/A	N/A	12.40	34.50
5240.0	5.50	52.40	-1.60	54.00	12.40	34.50

Carrier Frequency (MHz): 5320

Channel No.: 64

Test Mode: 802.11n (HT20)

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5320.0	45.90	92.80	N/A	N/A	12.40	34.50
5340.0	22.20	69.10	-4.90	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5320.0	33.60	80.50	N/A	N/A	12.40	34.50
5340.0	4.30	51.20	-2.80	54.00	12.40	34.50

● **802.11n (HT40)**

Carrier Frequency (MHz): 5270

Channel No.: 54

Test Mode: 802.11n (HT40)

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5270.0	40.90	87.80	N/A	N/A	12.40	34.50
5230.0	25.10	72.00	-2.00	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5270.0	27.60	74.50	N/A	N/A	12.40	34.50
5230.0	5.20	52.10	-1.90	54.00	12.40	34.50

Carrier Frequency (MHz): 5310

Channel No.: 60

Test Mode: 802.11n (HT40)

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5310.0	45.60	92.50	N/A	N/A	12.40	34.50
5350.0	15.60	62.50	-11.50	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5310.0	33.40	80.30	N/A	N/A	12.40	34.50
5350.0	0.10	47.00	-7.00	54.00	12.40	34.50

● 802.11ac (VHT80)

Carrier Frequency (MHz): 5290

Channel No.: 58

Test Mode: 802.11ac (VHT80)

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5290.0	38.00	84.90	N/A	N/A	12.40	34.50
5210.0	16.20	63.10	-10.90	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5290.0	24.10	71.00	N/A	N/A	12.40	34.50
5210.0	1.90	48.80	-5.20	54.00	12.40	34.50

【5470-5725】

● 802.11a

Carrier Frequency (MHz): 5500

Channel No.: 100

Test Mode: 802.11a

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5500.0	45.80	92.70	N/A	N/A	12.40	34.50
5480.0	0.70	47.60	-26.40	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5500.0	33.90	80.80	N/A	N/A	12.40	34.50
5480.0	-15.10	31.80	-22.20	54.00	12.40	34.50

Carrier Frequency (MHz): 5700

Channel No.: 140

Test Mode: 802.11a

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5700.0	37.28	84.18	N/A	N/A	12.40	34.50
5720.0	11.31	58.21	-15.79	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5700.0	34.57	81.47	N/A	N/A	12.40	34.50
5720.0	-11.12	35.78	-18.22	54.00	12.40	34.50

● 802.11n (HT20)

Carrier Frequency (MHz): 5500

Channel No.: 100

Test Mode: 802.11n (HT20)

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5500.0	49.40	96.30	N/A	N/A	12.40	34.50
5480.0	4.50	51.40	-22.60	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5500.0	37.70	84.60	N/A	N/A	12.40	34.50
5480.0	-8.90	38.00	-16.00	54.00	12.40	34.50

Carrier Frequency (MHz): 5700

Channel No.: 140

Test Mode: 802.11n (HT20)

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5700.0	44.00	90.90	N/A	N/A	12.40	34.50
5720.0	9.50	56.40	-17.60	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5700.0	31.00	77.90	N/A	N/A	12.40	34.50
5720.0	-6.30	40.60	-13.40	54.00	12.40	34.50

● **802.11n (HT40)**

Carrier Frequency (MHz): 5510

Channel No.: 102

Test Mode: 802.11n (HT40)

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5510.0	40.50	87.40	N/A	N/A	12.40	34.50
5470.0	7.70	54.60	-19.40	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5510.0	27.90	74.80	N/A	N/A	12.40	34.50
5470.0	-7.70	39.20	-14.80	54.00	12.40	34.50

Carrier Frequency (MHz): 5670

Channel No.: 134

Test Mode: 802.11n (HT40)

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5670.0	35.00	81.90	N/A	N/A	12.40	34.50
5710.0	17.00	63.90	-10.10	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5670.0	21.80	68.70	N/A	N/A	12.40	34.50
5710.0	0.80	47.70	-6.30	54.00	12.40	34.50

● 802.11ac (VHT80)

Carrier Frequency (MHz): 5530

Channel No.: 106

Test Mode: 802.11ac (VHT80)

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5530.0	36.00	82.90	N/A	N/A	12.40	34.50
5450.0	14.00	60.90	-13.10	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5530.0	24.30	71.20	N/A	N/A	12.40	34.50
5450.0	-1.30	45.60	-8.40	54.00	12.40	34.50

Carrier Frequency (MHz): 5690

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V3.0.0

Channel No.: 138

Test Mode: 802.11ac (VHT80)

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5690.0	37.60	84.50	N/A	N/A	12.40	34.50
5770.0	12.50	59.40	-14.60	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5690.0	23.20	70.10	N/A	N/A	12.40	34.50
5770.0	-2.90	44.00	-10.00	54.00	12.40	34.50

【5725-5850】

● **802.11a**

Carrier Frequency (MHz): 5745

Channel No.: 149

Test Mode: 802.11a

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5745.0	39.30	86.20	N/A	N/A	12.40	34.50
5725.0	13.40	60.30	-13.70	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5745.0	27.70	74.60	N/A	N/A	12.40	34.50
5725.0	-1.00	45.90	-8.10	54.00	12.40	34.50

Carrier Frequency (MHz): 5825

Channel No.: 165

Test Mode: 802.11a

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5825.0	27.30	74.20	N/A	N/A	12.40	34.50
5845.0	15.00	61.90	-12.10	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5825.0	15.50	62.40	N/A	N/A	12.40	34.50
5845.0	0.90	47.80	-6.20	54.00	12.40	34.50

● 802.11n (HT20)

Carrier Frequency (MHz): 5745

Channel No.: 149

Test Mode: 802.11n (HT20)

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5745.0	44.90	91.80	N/A	N/A	12.40	34.50
5725.0	8.70	55.60	-18.40	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5745.0	31.80	78.70	N/A	N/A	12.40	34.50
5725.0	-5.30	41.60	-12.40	54.00	12.40	34.50

Carrier Frequency (MHz): 5825

Channel No.: 165

Test Mode: 802.11n (HT20)

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5825.0	45.20	92.10	N/A	N/A	12.40	34.50
5845.0	17.20	64.10	-9.90	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5825.0	32.50	79.40	N/A	N/A	12.40	34.50
5845.0	1.40	48.30	-5.70	54.00	12.40	34.50

● 802.11n (HT40)

Carrier Frequency (MHz): 5755

Channel No.: 151

Test Mode: 802.11n (HT40)

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5755.0	40.10	87.00	N/A	N/A	12.40	34.50
5715.0	15.10	62.00	-12.00	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5755.0	26.60	73.50	N/A	N/A	12.40	34.50
5715.0	-0.70	46.20	-7.80	54.00	12.40	34.50

Carrier Frequency (MHz): 5795

Channel No.: 159

Test Mode: 802.11n (HT40)

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5795.0	39.70	86.60	N/A	N/A	12.40	34.50
5835.0	12.60	59.50	-14.50	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5795.0	27.00	73.90	N/A	N/A	12.40	34.50
5835.0	-2.70	44.20	-9.80	54.00	12.40	34.50

● 802.11ac (VHT80)

Carrier Frequency (MHz): 5775

Channel No.: 155

Test Mode: 802.11ac (VHT80)

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5775.0	29.70	76.60	N/A	N/A	12.40	34.50
5695.0	16.40	63.30	-10.70	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5775.0	16.00	62.90	N/A	N/A	12.40	34.50
5695.0	0.80	47.70	-6.30	54.00	12.40	34.50

Radiated Emissions

Sample Calculations:

Determining Spurious Emissions Levels

A “reference path loss” is established and the A_{Rpl} is the attenuation of “reference path loss”, and including the gain of receive antenna, the gain of the preamplifier, the cable loss. The measurement results are obtained as described below:

Below 1GHz:

QuasiPeak=Reading Value + A_{Rpl}

Above 1GHz:

MaxPeak=Reading MaxPeak + A_{Rpl}

OR

Average=Reading Average + A_{Rpl}

Sample calculation: $(15.95 \text{ dB}\mu\text{V/m}) = (41.35 \text{ dB}\mu\text{V}) + (-25.40 \text{ dB/m})$, the corresponding frequency is 75.590MHz.

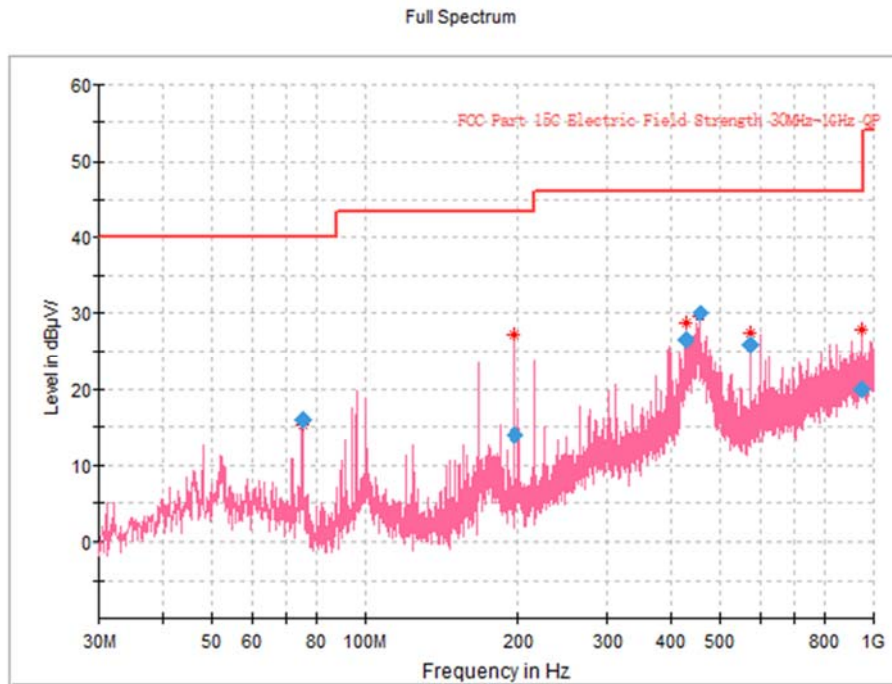
The worst case attitude: The mobile lay down.

【5150~5250】

● 802.11a

Spurious Radiated Emissions from 30MHz to 1GHz:

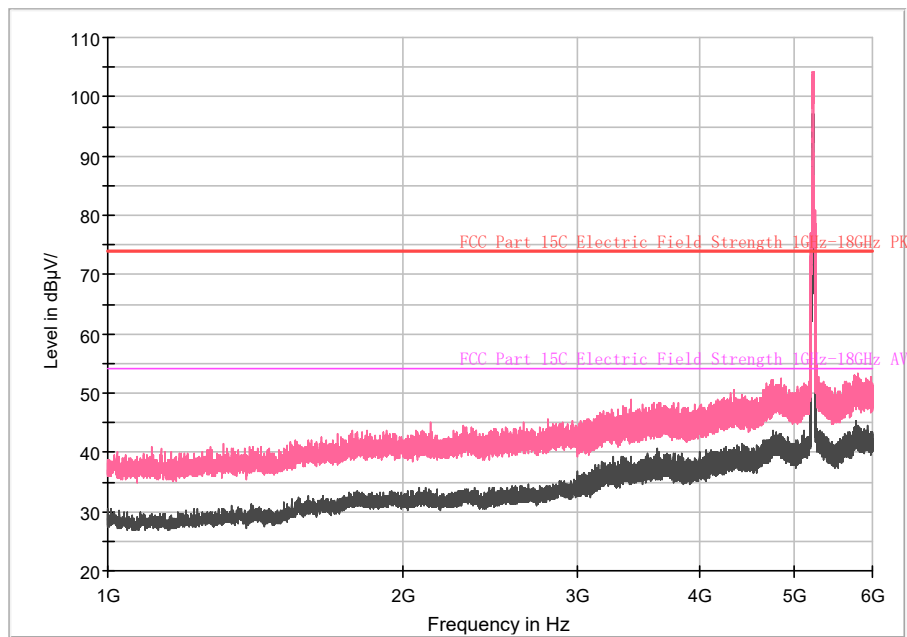
CH Middle (No.44)



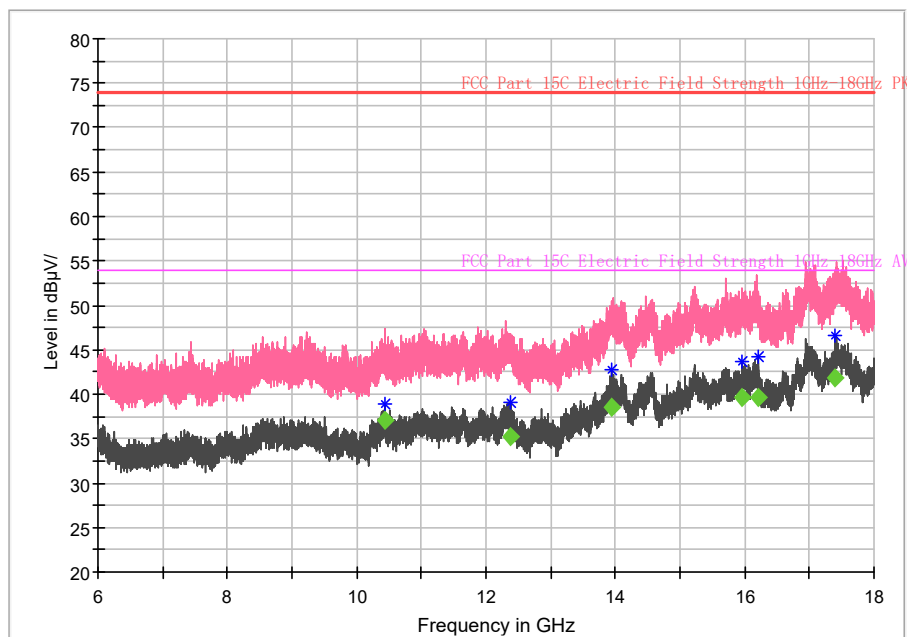
Frequency (MHz)	Reading (dBuV)	QuasiPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{Rpl} (dB)	Polarity
75.590	41.35	15.95	40.00	24.05	-25.40	Vertical
197.034	33.68	13.98	43.50	29.52	-19.70	Vertical
426.439	39.43	26.63	46.00	19.37	-12.80	Vertical
456.024	42.45	29.95	46.00	16.05	-12.50	Vertical
576.013	35.63	25.93	46.00	20.07	-9.70	Vertical
948.105	22.46	20.06	46.00	25.94	-2.40	Vertical

Spurious Radiated Emissions from 1GHz to 18GHz: CH Middle (No.44)

Full Spectrum



Full Spectrum

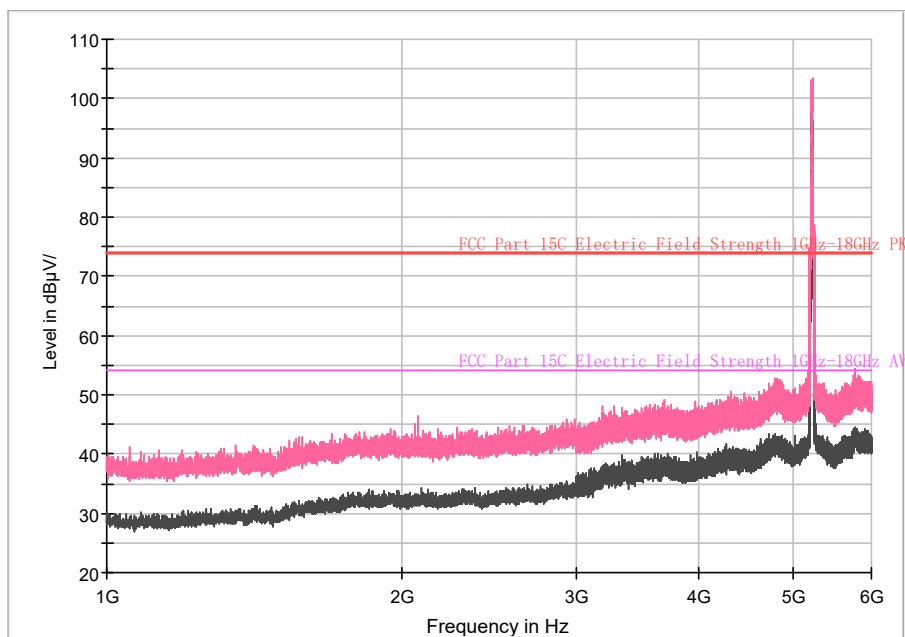


Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{RPI} (dB)	Polarity
10442.400	---	56.24	---	37.14	54.00	16.86	-19.10	Vertical
12375.600	---	52.74	---	35.14	54.00	18.86	-17.60	Vertical
13942.000	---	52.88	---	38.48	54.00	15.52	-14.40	Vertical

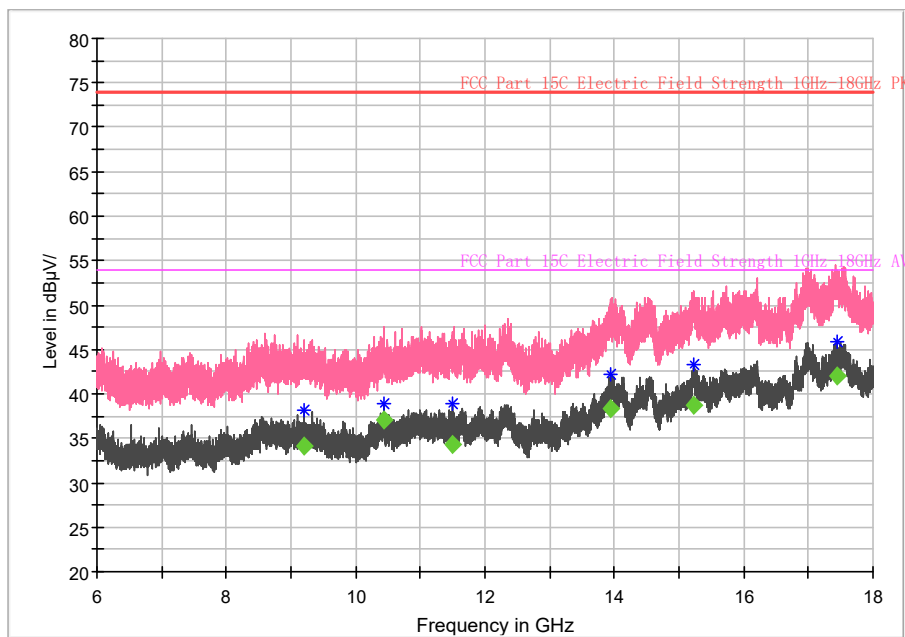
15967.600	---	54.19	---	39.59	54.00	14.41	-14.60	Vertical
16198.000	---	54.08	---	39.58	54.00	14.42	-14.50	Vertical
17392.000	---	53.90	---	41.80	54.00	12.20	-12.10	Vertical

● 802.11n (HT20)
Spurious Radiated Emissions from 1GHz to 18GHz:
CH Middle (No.44)

Full Spectrum

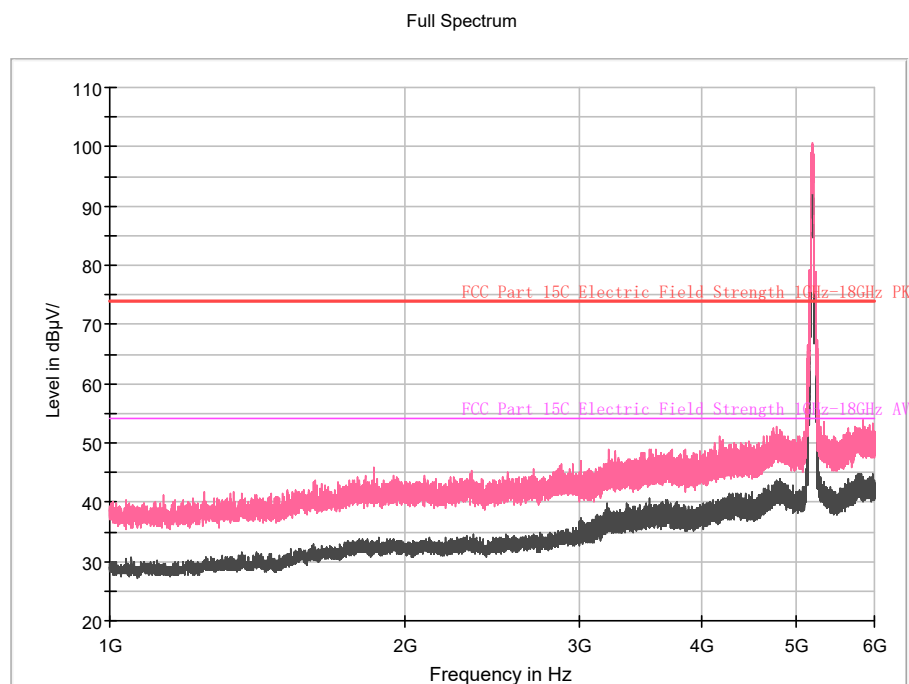


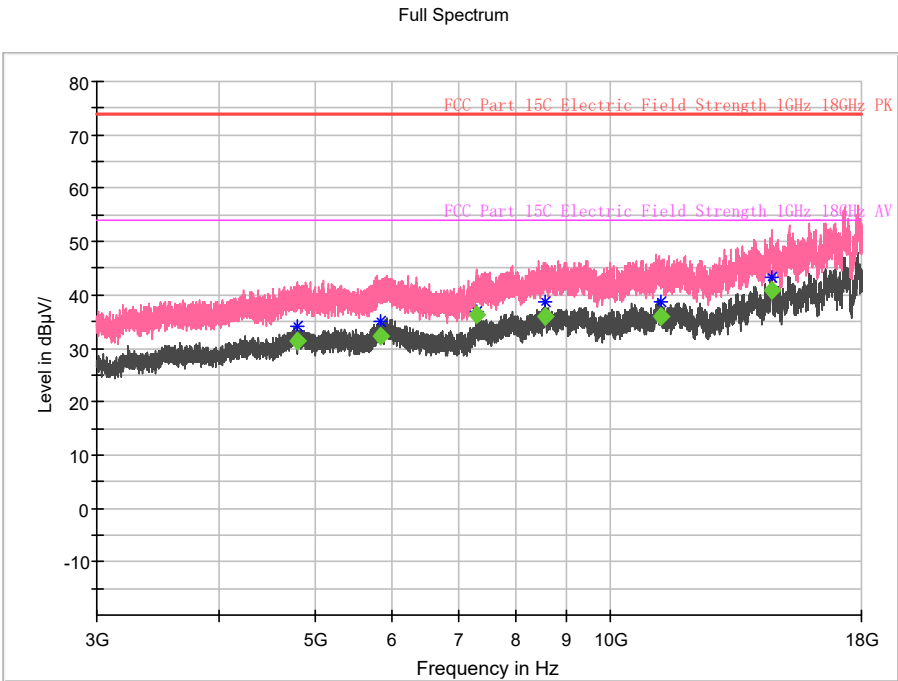
Full Spectrum



Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{Rpl} (dB)	Polarity
9200.800	---	54.34	---	34.14	54.00	19.86	-20.20	Vertical
10441.600	---	56.14	---	37.04	54.00	16.96	-19.10	Vertical
11506.000	---	51.16	---	34.26	54.00	19.74	-16.90	Vertical
13938.000	---	52.68	---	38.28	54.00	15.72	-14.40	Vertical
15227.200	---	52.65	---	38.65	54.00	15.35	-14.00	Vertical
17441.600	---	54.10	---	42.00	54.00	12.00	-12.10	Vertical

● 802.11n (HT40)
Spurious Radiated Emissions from 1GHz to 18GHz:
CH Middle (No.38)

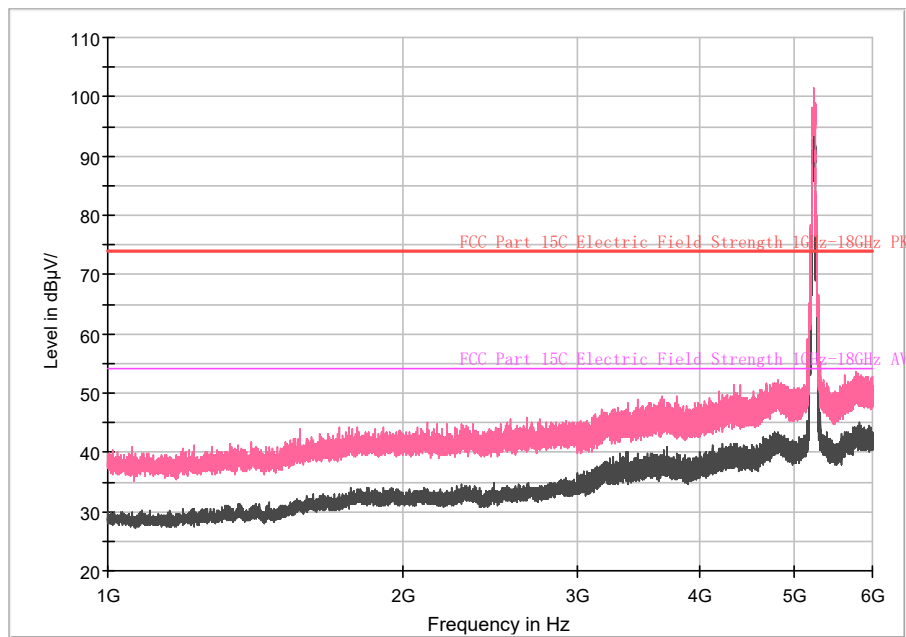




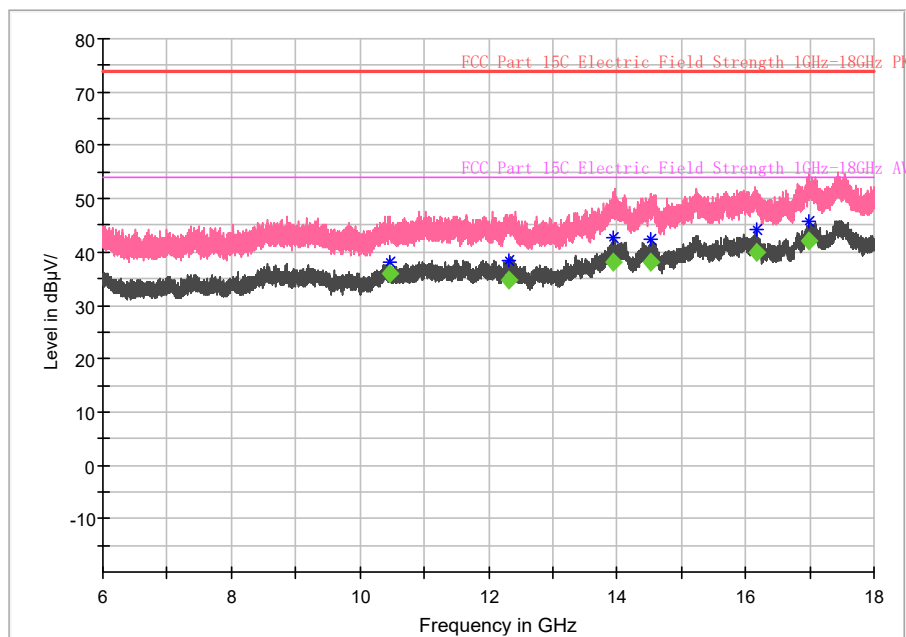
Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{Rpl} (dB)	Polarity
9200.800	---	54.34	---	34.14	54.00	19.86	-20.20	Vertical
10441.600	---	56.14	---	37.04	54.00	16.96	-19.10	Vertical
11506.000	---	51.16	---	34.26	54.00	19.74	-16.90	Vertical
13938.000	---	52.68	---	38.28	54.00	15.72	-14.40	Vertical
15227.200	---	52.65	---	38.65	54.00	15.35	-14.00	Vertical
17441.600	---	54.10	---	42.00	54.00	12.00	-12.10	Vertical

● 802.11n (HT40)
Spurious Radiated Emissions from 1GHz to 18GHz:
CH Middle (No.46)

Full Spectrum

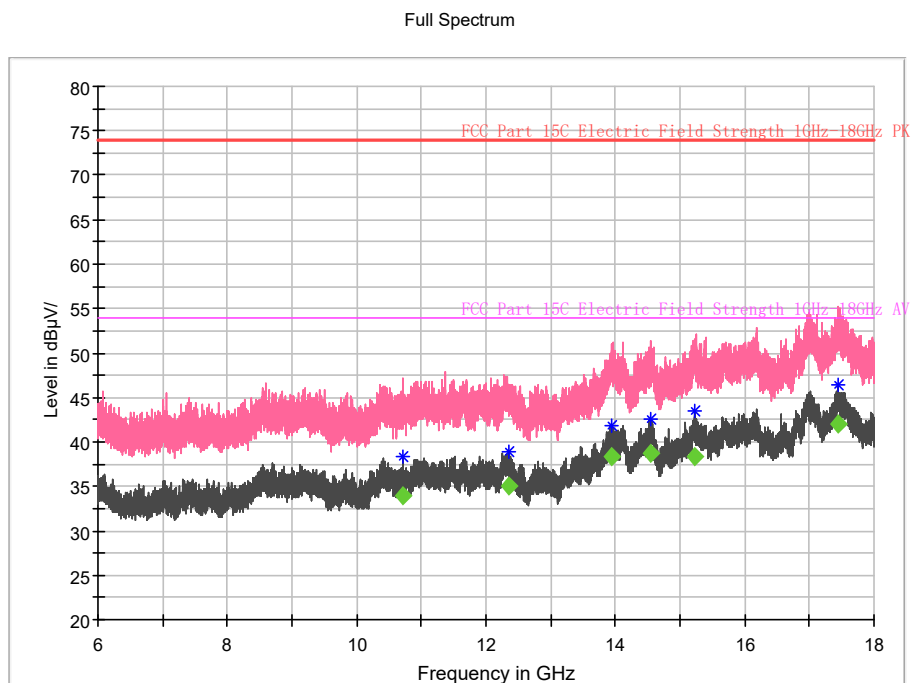
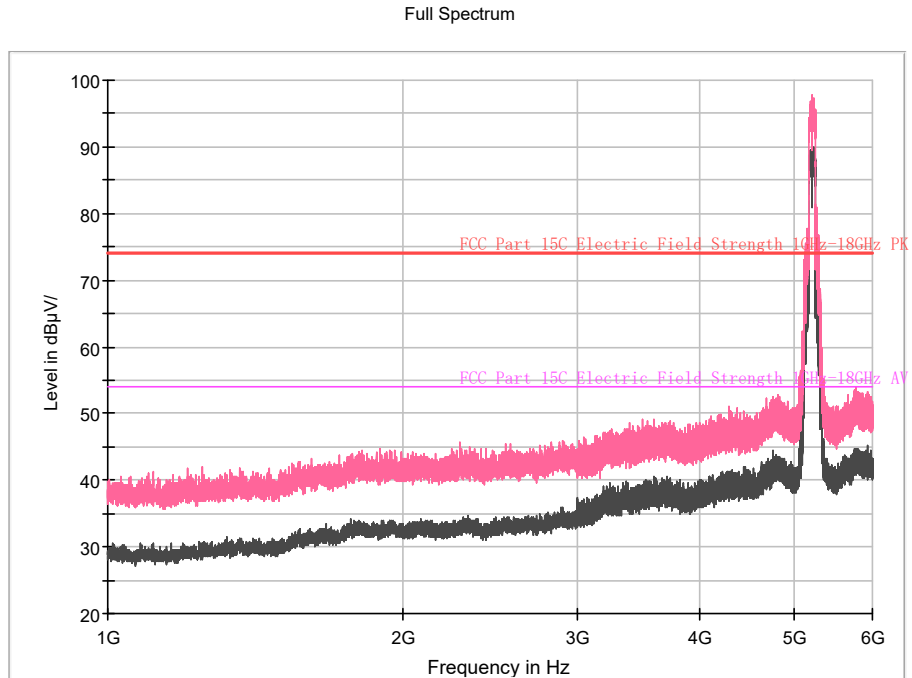


Full Spectrum



Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{RPI} (dB)	Polarity
10456.000	---	55.10	---	36.00	54.00	18.00	-19.10	Vertical
12321.200	---	52.11	---	34.61	54.00	19.39	-17.50	Vertical
13951.600	---	52.58	---	38.18	54.00	15.82	-14.40	Vertical
14532.400	---	52.23	---	38.23	54.00	15.77	-14.00	Vertical
16171.200	---	54.50	---	39.90	54.00	14.10	-14.60	Vertical
16988.000	---	54.77	---	41.97	54.00	12.03	-12.80	Vertical

● 802.11ac (VHT80)
Spurious Radiated Emissions from 1GHz to 18GHz:
CH Middle (No.42)

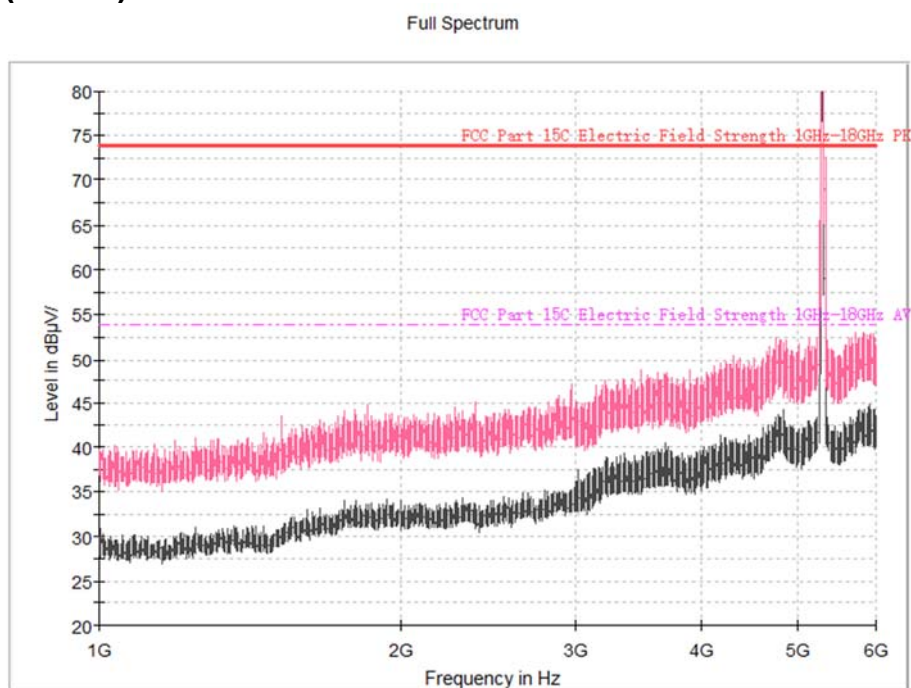


Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{Rpl} (dB)	Polarity
10703.600	---	52.62	---	33.92	54.00	20.08	-18.70	Vertical
12363.600	---	52.62	---	35.02	54.00	18.98	-17.60	Vertical
13941.200	---	52.76	---	38.36	54.00	15.64	-14.40	Vertical
14548.800	---	52.79	---	38.79	54.00	15.21	-14.00	Vertical
15231.600	---	52.43	---	38.43	54.00	15.57	-14.00	Vertical
17443.200	---	54.15	---	42.05	54.00	11.95	-12.10	Vertical

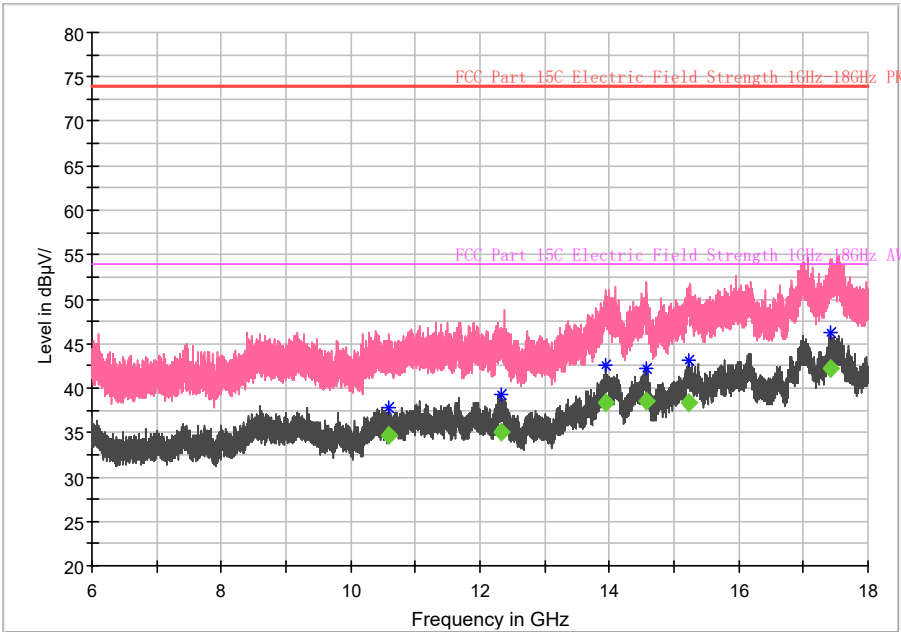
【5250~5350】

● 802.11a

Spurious Radiated Emissions from 1GHz to 18GHz: CH Middle (No.60)



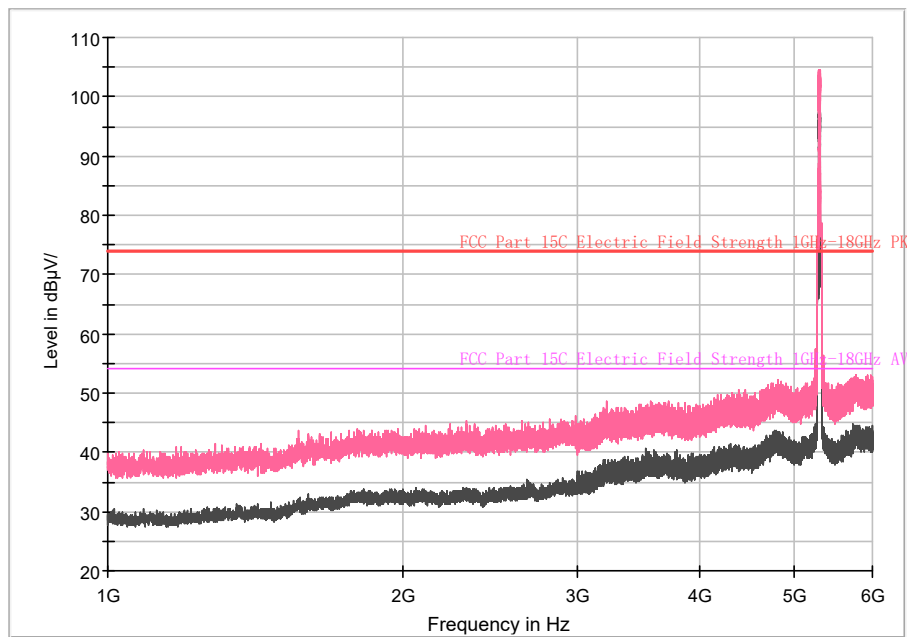
Full Spectrum



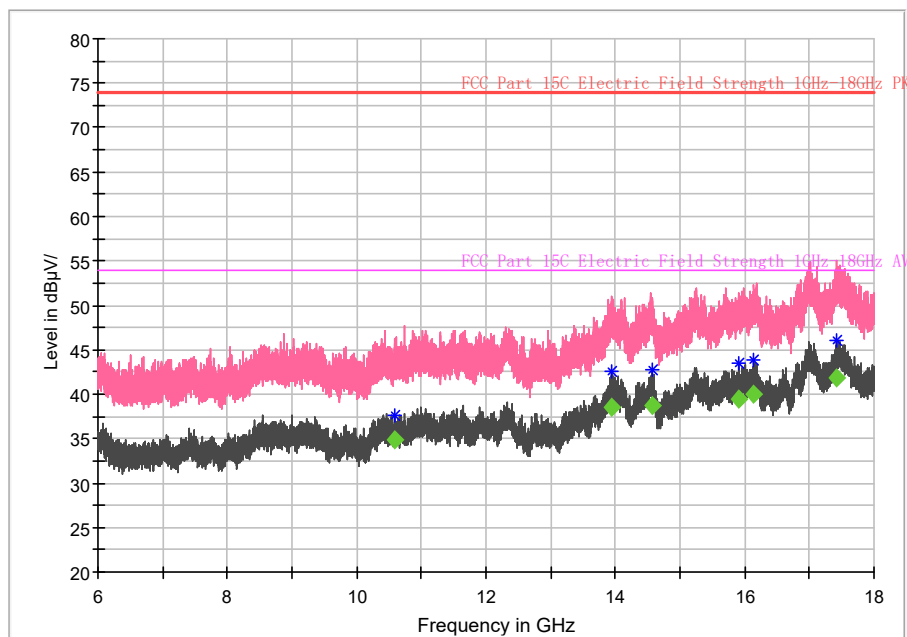
Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{Rpl} (dB)	Polarity
10599.200	---	53.60	---	34.70	54.00	19.30	-18.90	Vertical
12334.800	---	52.56	---	35.06	54.00	18.94	-17.50	Vertical
13945.200	---	52.82	---	38.42	54.00	15.58	-14.40	Vertical
14574.000	---	52.55	---	38.55	54.00	15.45	-14.00	Vertical
15236.400	---	52.32	---	38.32	54.00	15.68	-14.00	Vertical
17432.000	---	54.23	---	42.13	54.00	11.87	-12.10	Vertical

● 802.11n (HT20)
Spurious Radiated Emissions from 1GHz to 18GHz:
CH Middle (No.60)

Full Spectrum



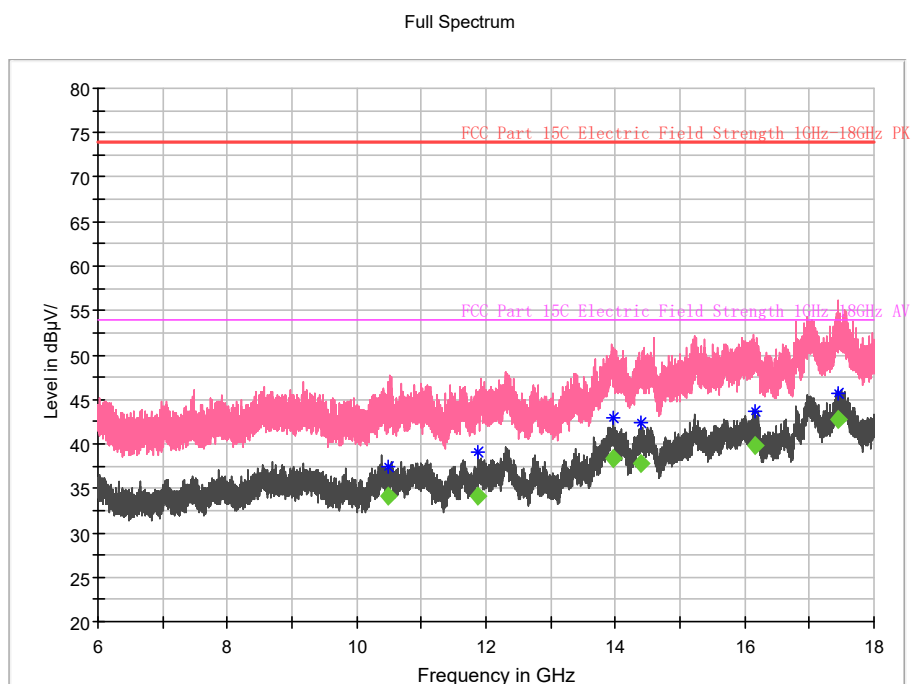
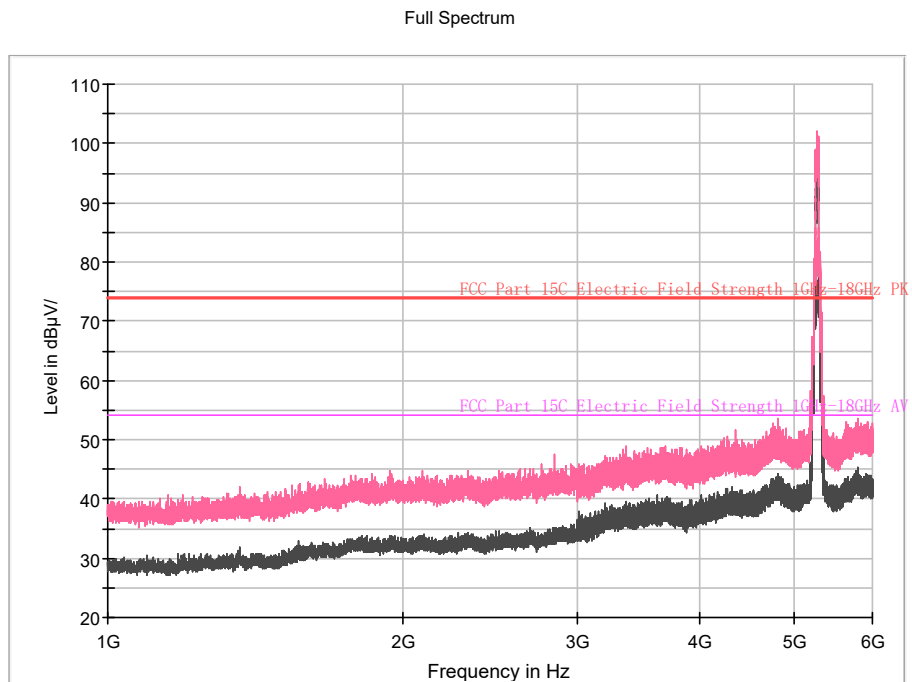
Full Spectrum



Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{Rpl} (dB)	Polarity
10595.600	---	53.76	---	34.86	54.00	19.14	-18.90	Vertical
13942.800	---	52.88	---	38.48	54.00	15.52	-14.40	Vertical
14570.400	---	52.66	---	38.66	54.00	15.34	-14.00	Vertical

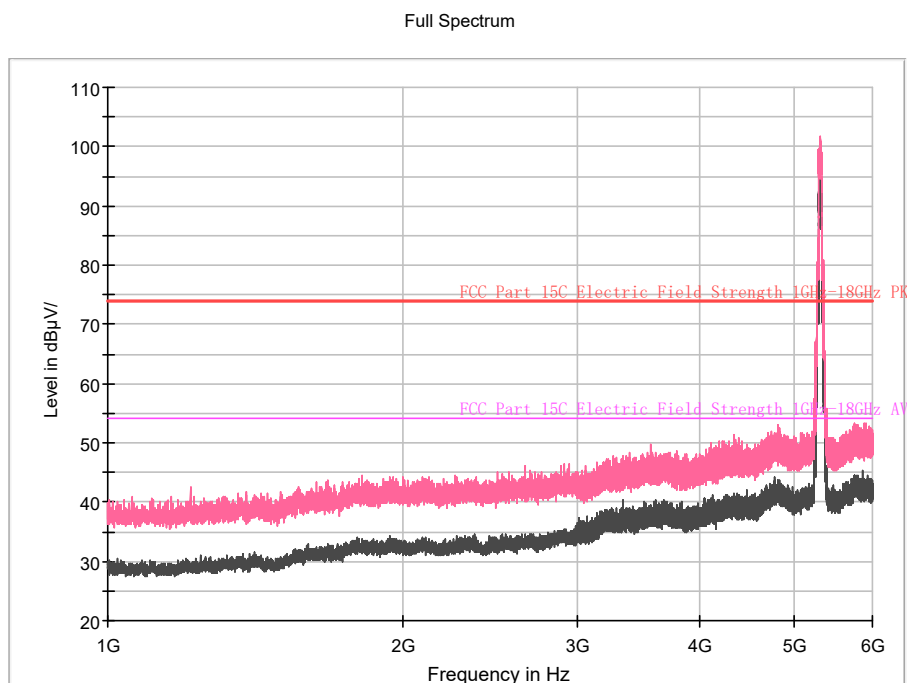
15905.600	---	54.04	---	39.54	54.00	14.46	-14.50	Vertical
16146.800	---	54.75	---	40.05	54.00	13.95	-14.70	Vertical
17418.000	---	53.97	---	41.87	54.00	12.13	-12.10	Vertical

● 802.11n (HT40)
Spurious Radiated Emissions from 1GHz to 18GHz:
CH Middle (No.54)

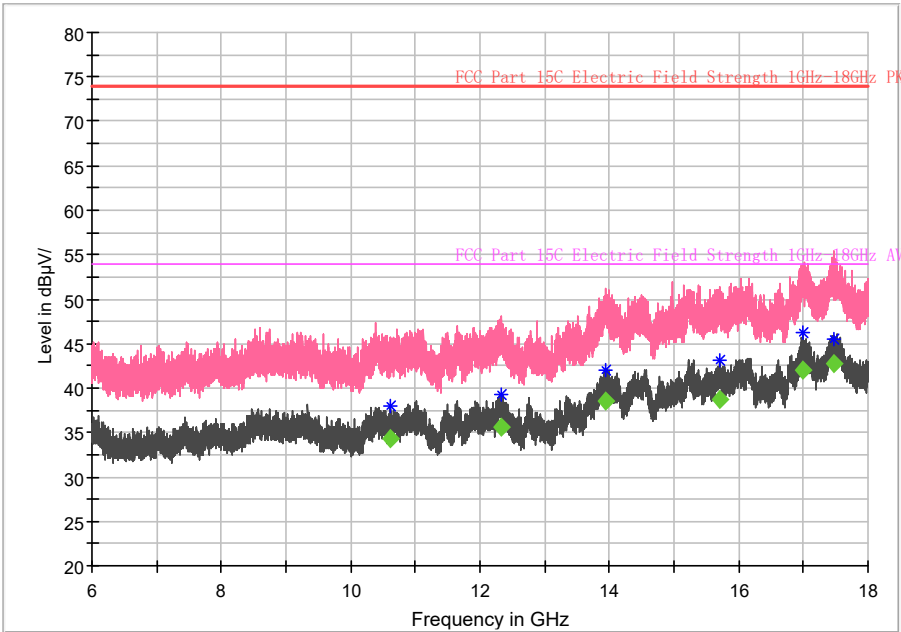


Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{Rpl} (dB)	Polarity
10475.600	---	53.24	---	34.14	54.00	19.86	-19.10	Vertical
11884.400	---	51.12	---	34.12	54.00	19.88	-17.00	Vertical
13962.000	---	52.72	---	38.32	54.00	15.68	-14.40	Vertical
14400.000	---	51.88	---	37.78	54.00	16.22	-14.10	Vertical
16159.200	---	54.49	---	39.79	54.00	14.21	-14.70	Vertical
17453.200	---	54.78	---	42.68	54.00	11.32	-12.10	Vertical

● 802.11n (HT40)
Spurious Radiated Emissions from 1GHz to 18GHz:
CH Middle (No.62)



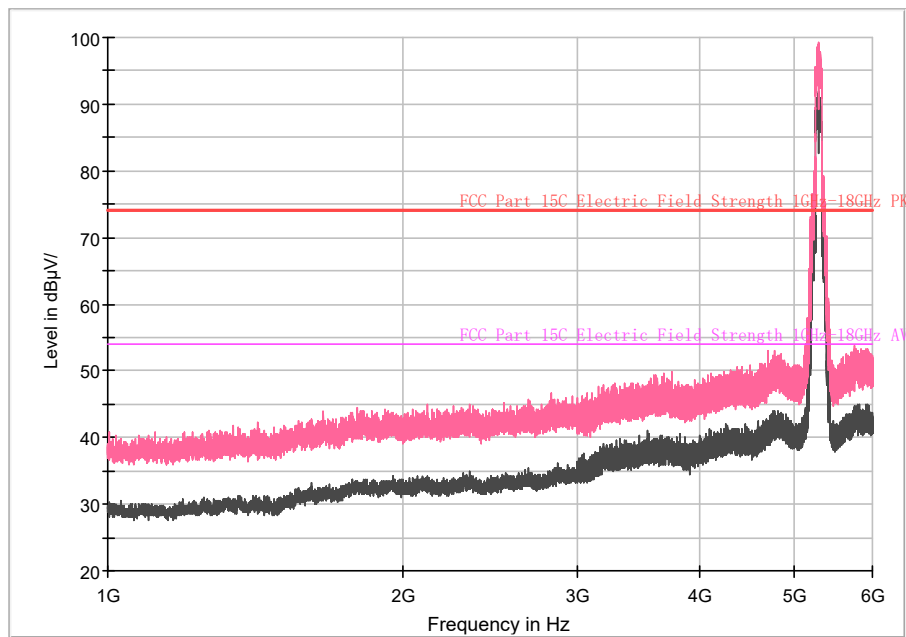
Full Spectrum



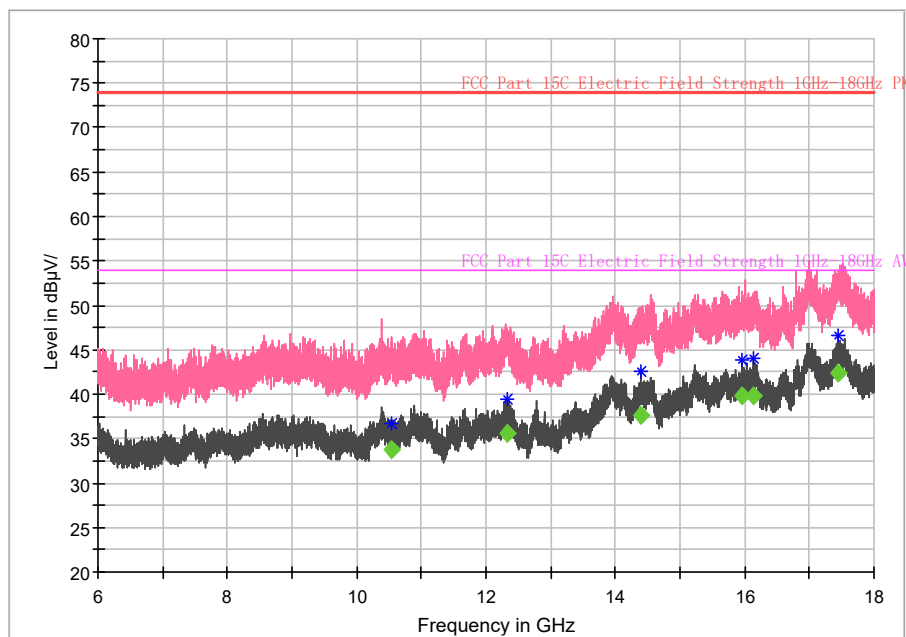
Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{Rpl} (dB)	Polarity
10617.200	---	53.29	---	34.39	54.00	19.61	-18.90	Vertical
12315.200	---	53.15	---	35.65	54.00	18.35	-17.50	Vertical
13942.800	---	52.94	---	38.54	54.00	15.46	-14.40	Vertical
15703.200	---	53.05	---	38.75	54.00	15.25	-14.30	Vertical
16986.000	---	54.90	---	42.10	54.00	11.90	-12.80	Vertical
17458.400	---	54.81	---	42.71	54.00	11.29	-12.10	Vertical

● 802.11ac (VHT80)
Spurious Radiated Emissions from 1GHz to 18GHz:
CH Middle (No.58)

Full Spectrum



Full Spectrum



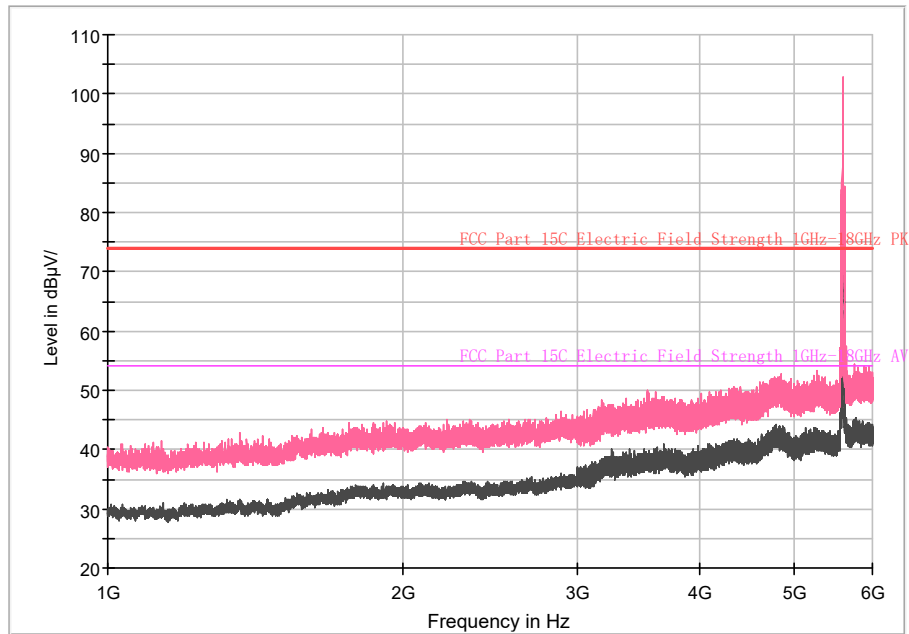
Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{Rpl} (dB)	Polarity
10548.000	---	52.68	---	33.68	54.00	20.32	-19.00	Vertical
12318.400	---	53.09	---	35.59	54.00	18.41	-17.50	Vertical
14384.000	---	51.76	---	37.66	54.00	16.34	-14.10	Vertical
15955.600	---	54.34	---	39.74	54.00	14.26	-14.60	Vertical
16130.000	---	54.60	---	39.80	54.00	14.20	-14.80	Vertical
17448.000	---	54.47	---	42.37	54.00	11.63	-12.10	Vertical

【5470~5725】

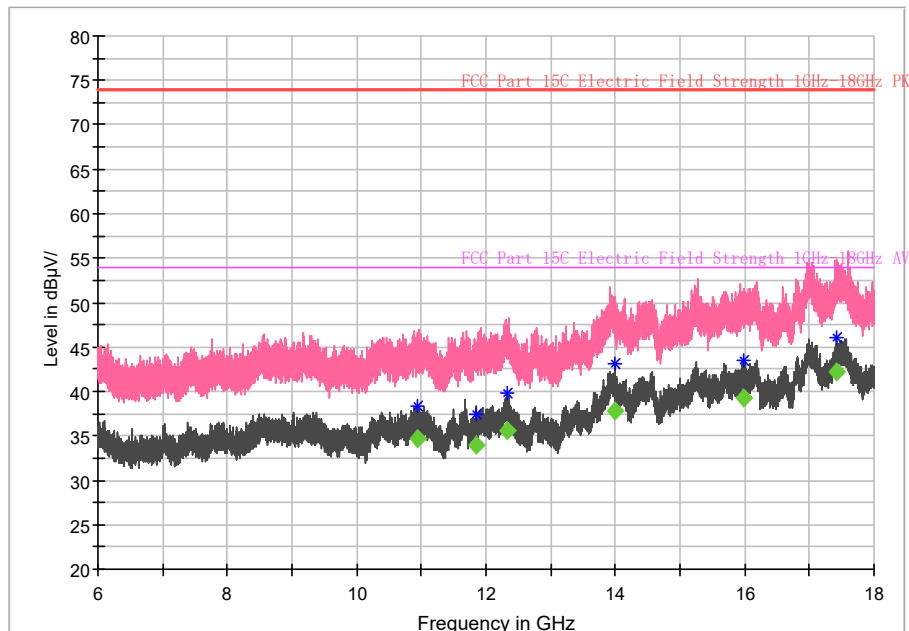
● 802.11a

Spurious Radiated Emissions from 1GHz to 18GHz:
CH Middle (No.120)

Full Spectrum



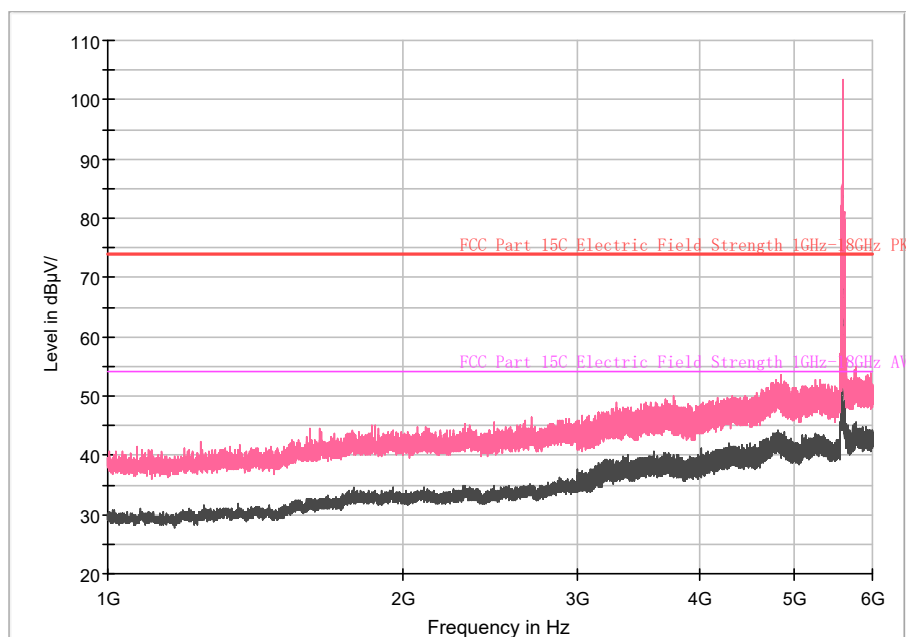
Full Spectrum



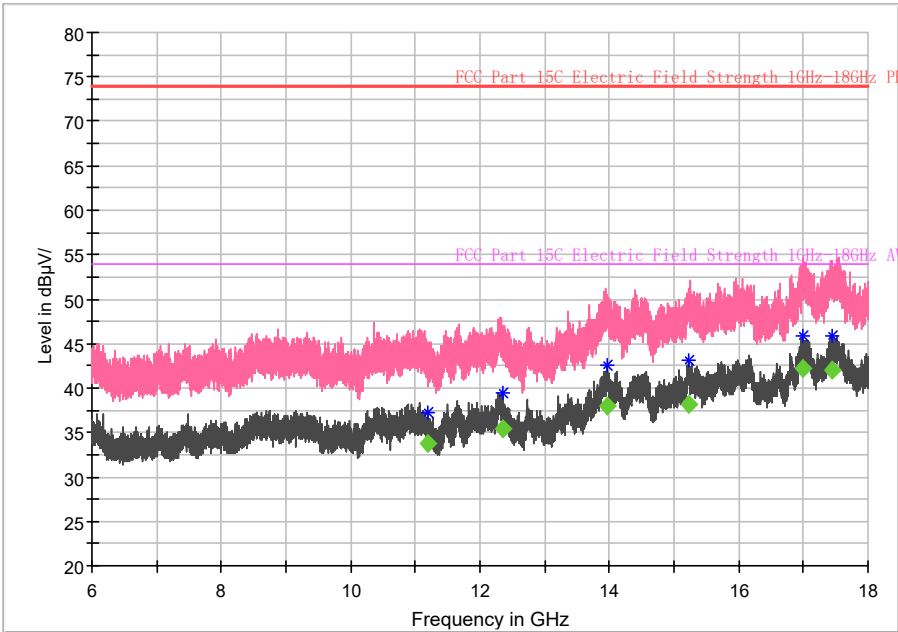
Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{Rpl} (dB)	Polarity
10934.400	---	53.14	---	34.74	54.00	19.26	-18.40	Vertical
11857.600	---	50.95	---	33.95	54.00	20.05	-17.00	Vertical
12325.600	---	53.11	---	35.61	54.00	18.39	-17.50	Vertical
13987.600	---	52.28	---	37.88	54.00	16.12	-14.40	Vertical
15971.600	---	53.95	---	39.35	54.00	14.65	-14.60	Vertical
17428.800	---	54.29	---	42.19	54.00	11.81	-12.10	Vertical

● 802.11n (HT20)
Spurious Radiated Emissions from 1GHz to 18GHz:
CH Middle (No.120)

Full Spectrum



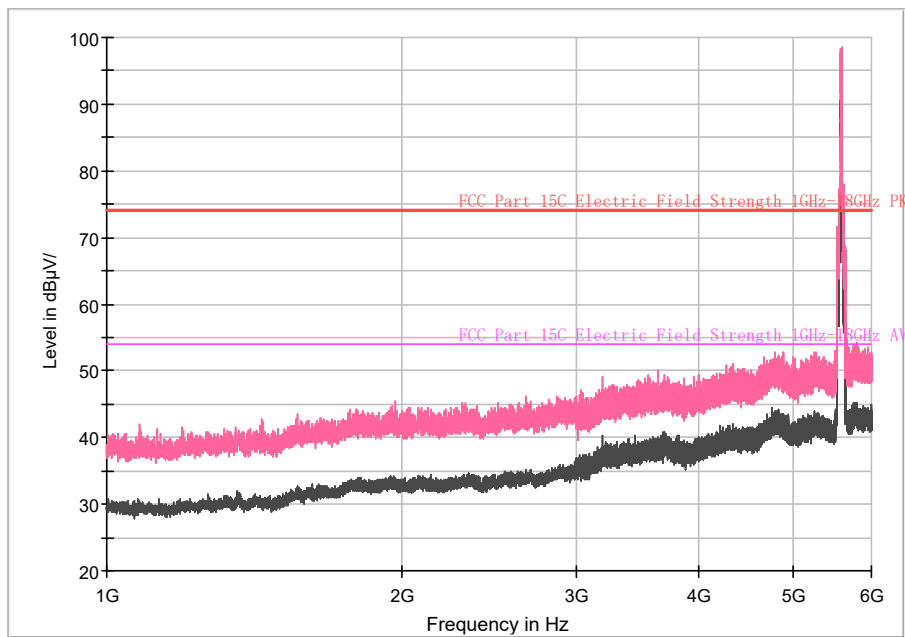
Full Spectrum



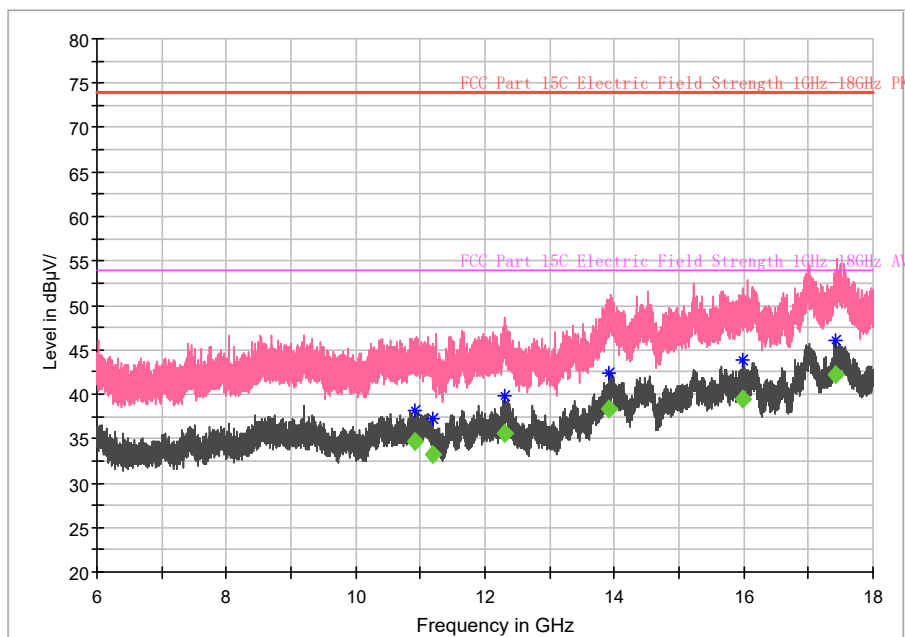
Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{Rpl} (dB)	Polarity
11202.800	---	51.30	---	33.70	54.00	20.30	-17.60	Vertical
12347.600	---	52.86	---	35.36	54.00	18.64	-17.50	Vertical
13972.400	---	52.45	---	38.05	54.00	15.95	-14.40	Vertical
15223.200	---	52.24	---	38.24	54.00	15.76	-14.00	Vertical
16985.200	---	54.94	---	42.14	54.00	11.86	-12.80	Vertical
17441.200	---	54.15	---	42.05	54.00	11.95	-12.10	Vertical

● 802.11n (HT40)
Spurious Radiated Emissions from 1GHz to 18GHz:
CH Middle (No.118)

Full Spectrum



Full Spectrum

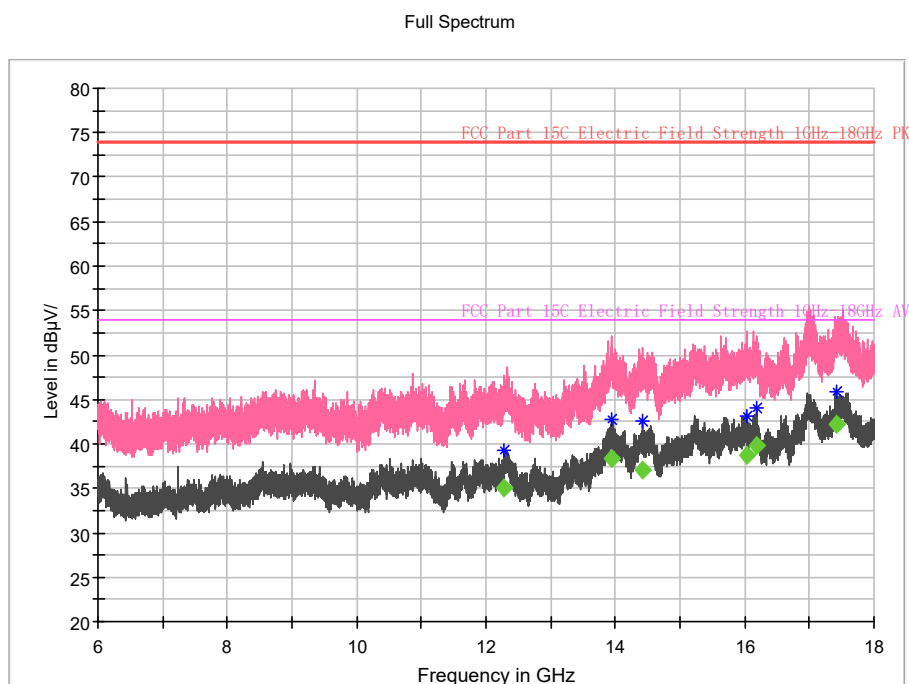
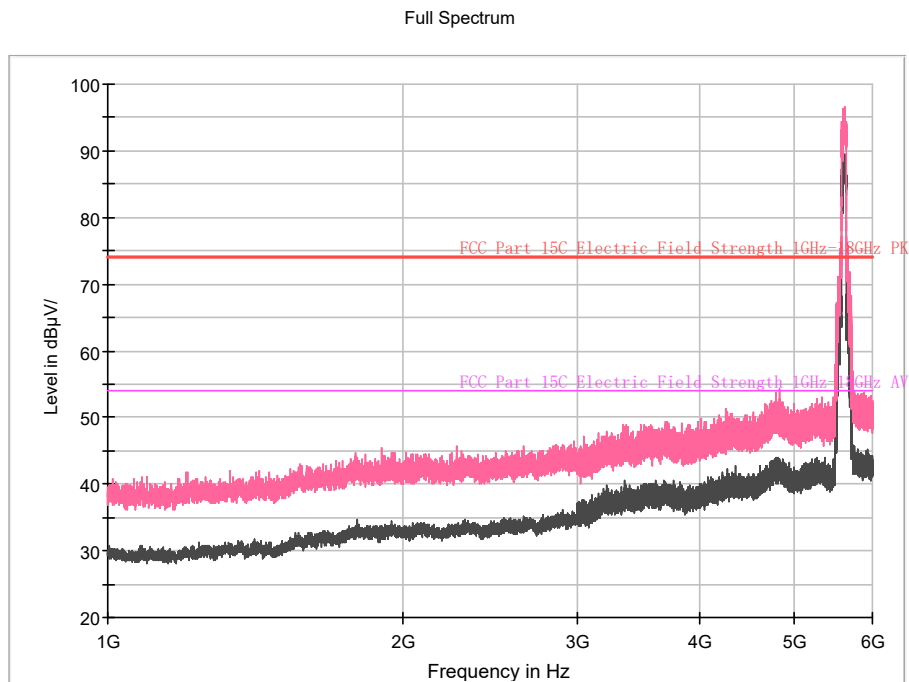


Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{RPI} (dB)	Polarity
10907.200	---	53.16	---	34.76	54.00	19.24	-18.40	Vertical
11185.600	---	50.92	---	33.22	54.00	20.78	-17.70	Vertical
12314.800	---	53.11	---	35.61	54.00	18.39	-17.50	Vertical

13928.000	---	52.71	---	38.31	54.00	15.69	-14.40	Vertical
15992.000	---	54.08	---	39.48	54.00	14.52	-14.60	Vertical
17427.200	---	54.28	---	42.18	54.00	11.82	-12.10	Vertical

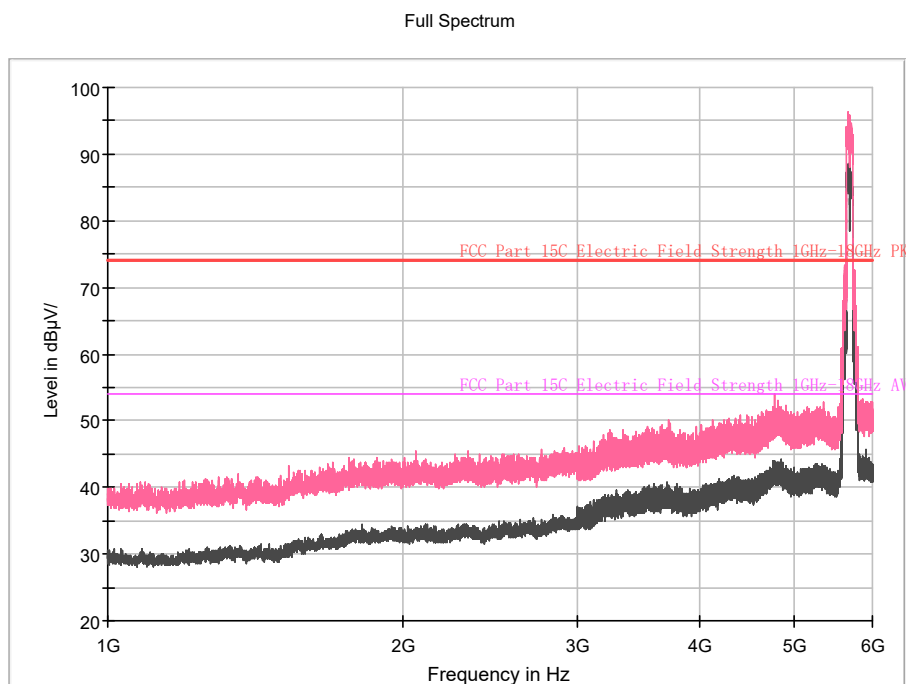
● 802.11ac (VHT80)

Spurious Radiated Emissions from 1GHz to 18GHz:
CH Middle (No.122)

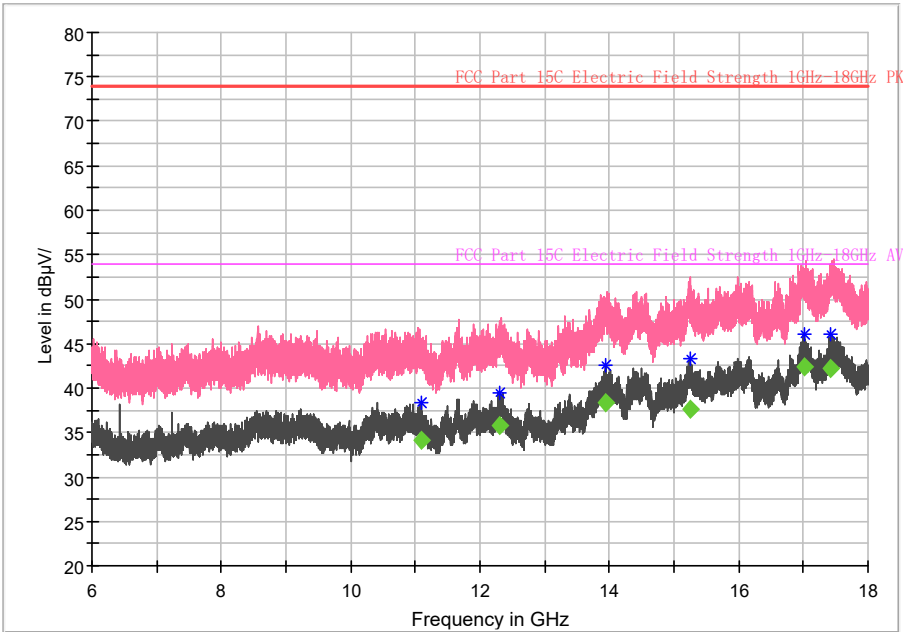


Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{Rpl} (dB)	Polarity
12281.200	---	52.56	---	35.06	54.00	18.94	-17.50	Vertical
13941.600	---	52.78	---	38.38	54.00	15.62	-14.40	Vertical
14424.400	---	51.19	---	37.09	54.00	16.91	-14.10	Vertical
16026.400	---	53.33	---	38.73	54.00	15.27	-14.60	Vertical
16172.800	---	54.49	---	39.89	54.00	14.11	-14.60	Vertical
17425.600	---	54.34	---	42.24	54.00	11.76	-12.10	Vertical

● 802.11ac (VHT80)
Spurious Radiated Emissions from 1GHz to 18GHz:
CH Middle (No.138)



Full Spectrum



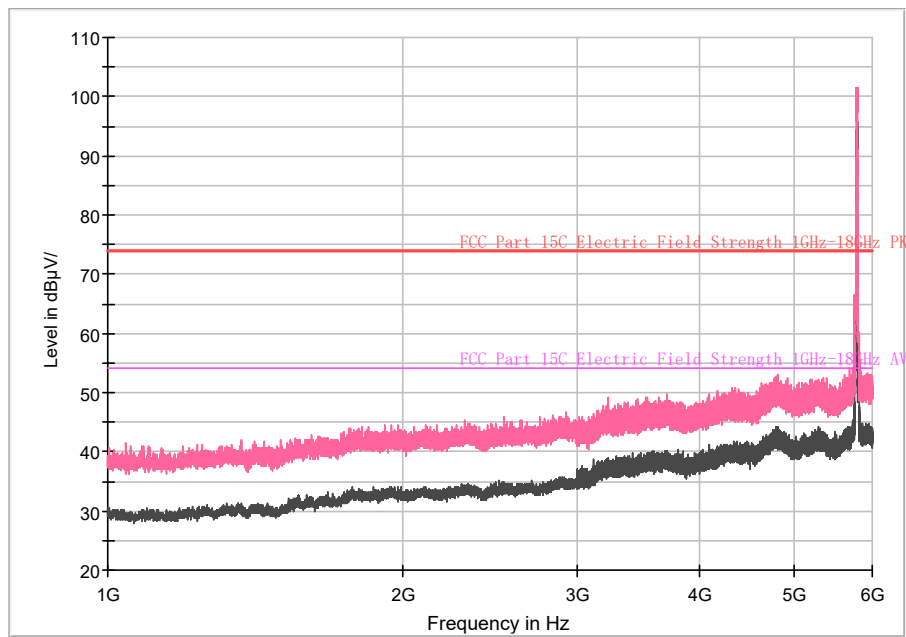
Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{Rpl} (dB)	Polarity
11098.400	---	52.12	---	34.12	54.00	19.88	-18.00	Vertical
12312.800	---	53.22	---	35.72	54.00	18.28	-17.50	Vertical
13942.000	---	52.82	---	38.42	54.00	15.58	-14.40	Vertical
15256.400	---	51.69	---	37.59	54.00	16.41	-14.10	Vertical
17022.000	---	55.15	---	42.45	54.00	11.55	-12.70	Vertical
17428.400	---	54.29	---	42.19	54.00	11.81	-12.10	Vertical

【5725~5850】

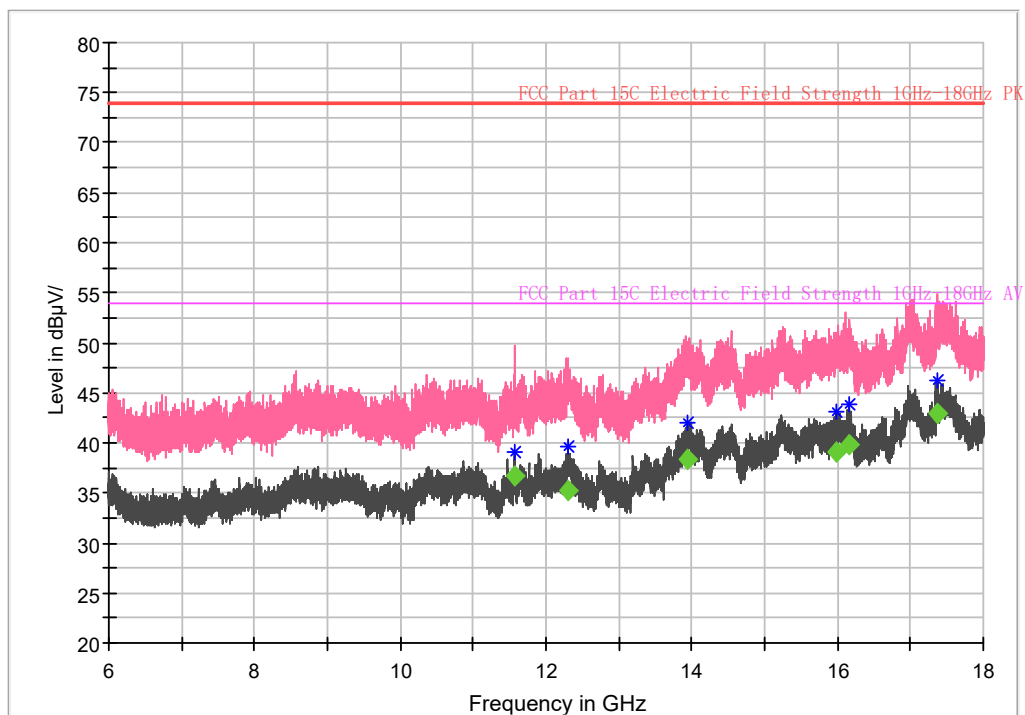
● 802.11a

Spurious Radiated Emissions from 1GHz to 18GHz:
CH Middle (No.157)

Full Spectrum



Full Spectrum

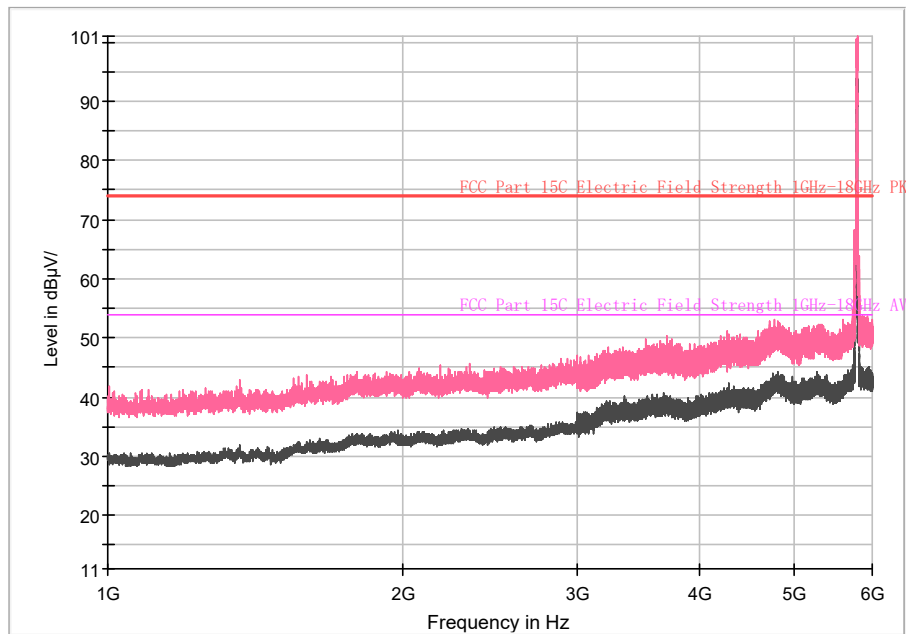


Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{Rpl} (dB)	Polarity
11570.800	---	53.58	---	36.68	54.00	17.32	-16.90	Vertical
12306.800	---	52.76	---	35.26	54.00	18.74	-17.50	Vertical
13946.000	---	52.84	---	38.44	54.00	15.56	-14.40	Vertical

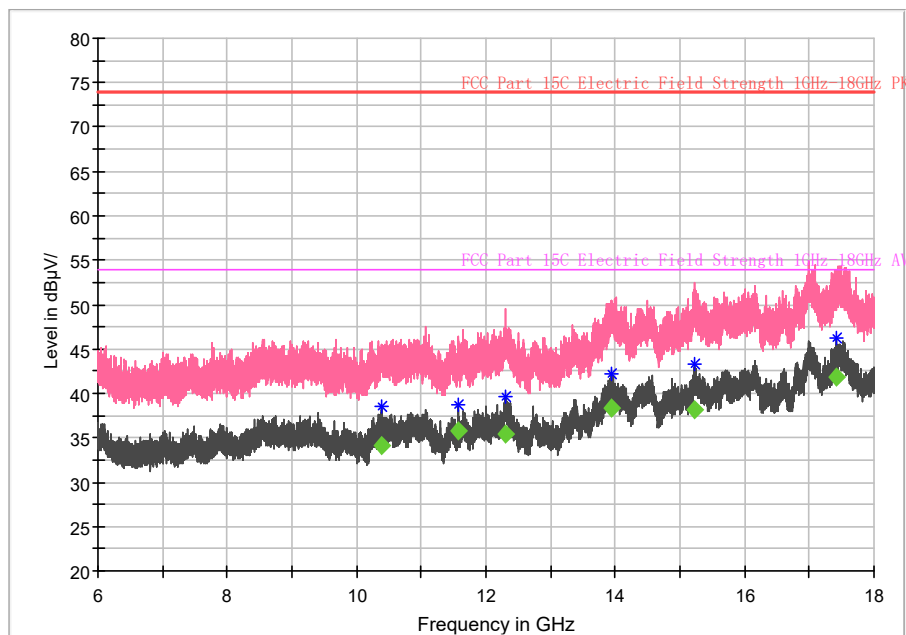
15972.000	---	53.68	---	39.08	54.00	14.92	-14.60	Vertical
16149.600	---	54.51	---	39.81	54.00	14.19	-14.70	Vertical
17362.800	---	54.95	---	42.85	54.00	11.15	-12.10	Vertical

● 802.11n (HT20)
Spurious Radiated Emissions from 1GHz to 18GHz:
CH Middle (No.157)

Full Spectrum



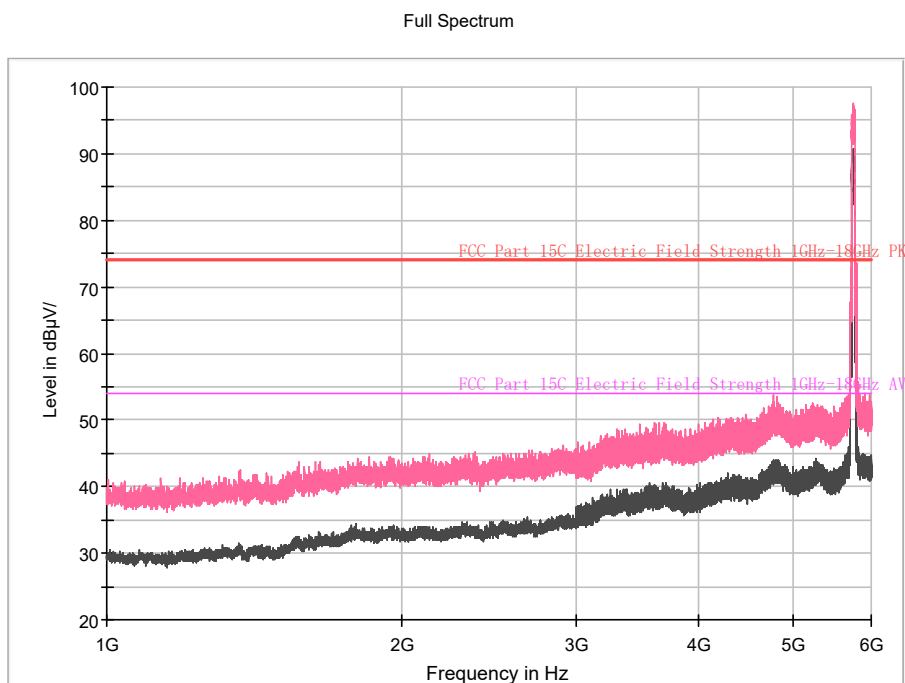
Full Spectrum



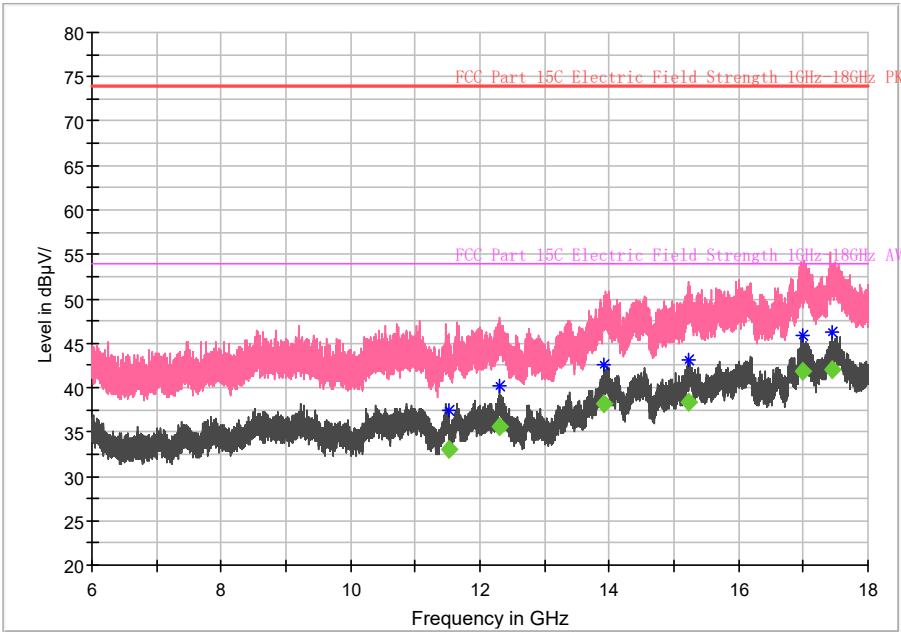
Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{RPI} (dB)	Polarity
10375.200	---	53.36	---	34.06	54.00	19.94	-19.30	Vertical
11572.400	---	52.66	---	35.76	54.00	18.24	-16.90	Vertical
12299.600	---	52.88	---	35.38	54.00	18.62	-17.50	Vertical
13944.800	---	52.83	---	38.43	54.00	15.57	-14.40	Vertical
15235.200	---	52.18	---	38.18	54.00	15.82	-14.00	Vertical
17431.200	---	54.02	---	41.92	54.00	12.08	-12.10	Vertical

● 802.11n (HT40)

Spurious Radiated Emissions from 1GHz to 18GHz:
CH Middle (No.151)



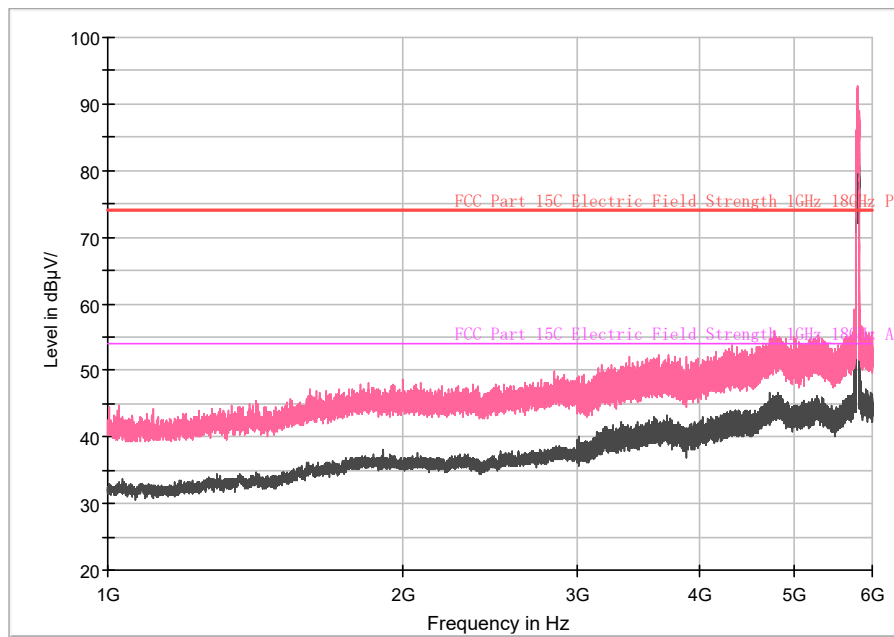
Full Spectrum



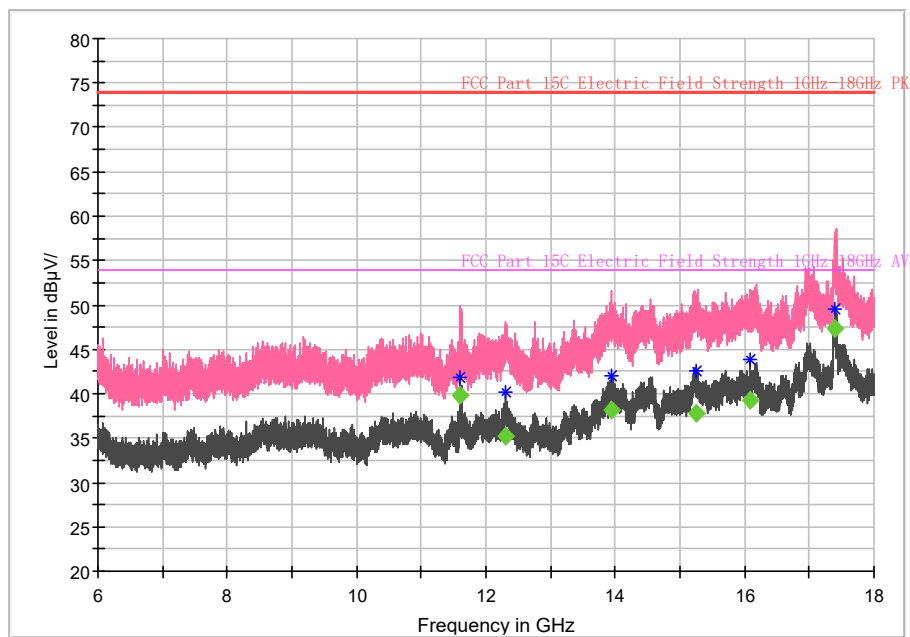
Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{Rpl} (dB)	Polarity
4793.000	---	48.21	---	31.31	54.00	22.69	-16.90	Vertical
5824.000	---	49.93	---	32.43	54.00	21.57	-17.50	Vertical
7309.500	---	50.70	---	36.30	54.00	17.70	-14.40	Vertical
8572.000	---	49.82	---	35.82	54.00	18.18	-14.00	Vertical
11231.500	---	48.57	---	35.87	54.00	18.13	-12.70	Vertical
14580.500	---	53.10	---	41.00	54.00	13.00	-12.10	Vertical

● 802.11n (HT40)
Spurious Radiated Emissions from 1GHz to 18GHz:
CH Middle (No.159)

Full Spectrum



Full Spectrum

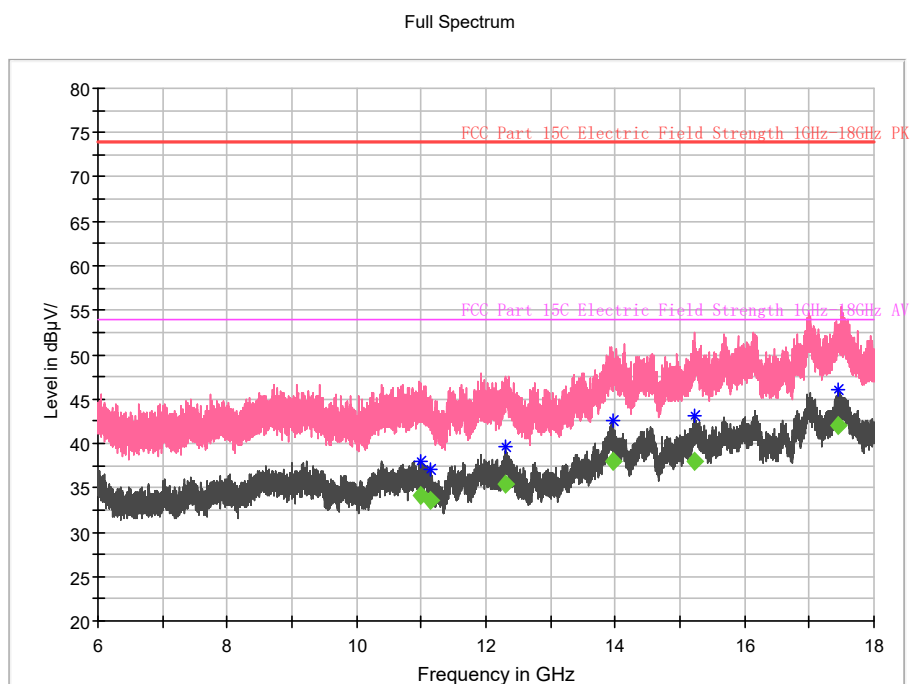
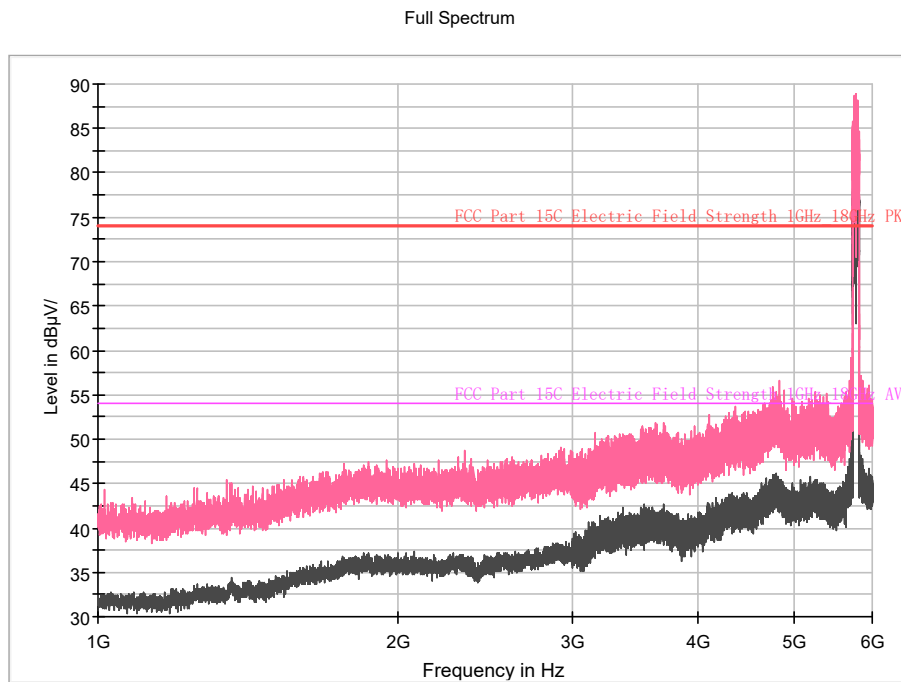


Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{Rpl} (dB)	Polarity
11606.000	---	56.73	---	39.83	54.00	14.17	-16.90	Vertical
12310.400	---	52.75	---	35.25	54.00	18.75	-17.50	Vertical
13949.600	---	52.53	---	38.13	54.00	15.87	-14.40	Vertical

15241.200	---	51.79	---	37.79	54.00	16.21	-14.00	Vertical
16092.000	---	54.01	---	39.21	54.00	14.79	-14.80	Vertical
17404.000	---	59.36	---	47.26	54.00	6.74	-12.10	Vertical

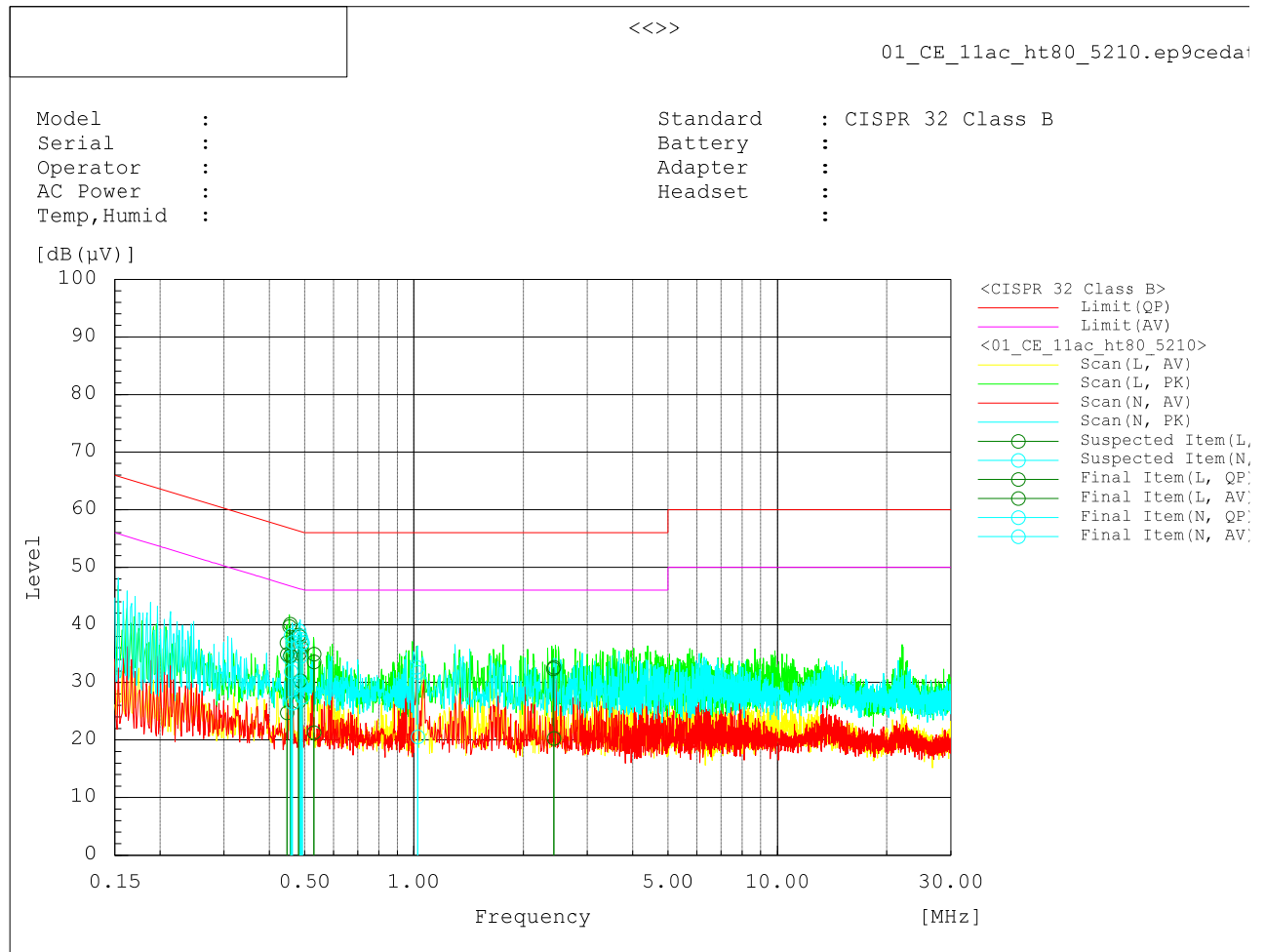
● 802.11ac (VHT80)

Spurious Radiated Emissions from 1GHz to 18GHz:
CH Middle (No.155)



Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{Rpl} (dB)	Polarity
10991.200	---	52.39	---	34.19	54.00	19.81	-18.20	Vertical
11145.200	---	51.37	---	33.57	54.00	20.43	-17.80	Vertical
12312.400	---	52.98	---	35.48	54.00	18.52	-17.50	Vertical
13974.400	---	52.29	---	37.89	54.00	16.11	-14.40	Vertical
15220.800	---	51.92	---	37.92	54.00	16.08	-14.00	Vertical
17439.200	---	54.03	---	41.93	54.00	12.07	-12.10	Vertical

AC Power line Conducted Emission(EUT TX on (11b) + charging)



Range	Frequency	Line	Reading			Factor	Level			Limit	Limit			Margin			Pass/Fail
	MHz		dB(μV)			dB	dB(μV)			dB(μV)	dB(μV)			dB			
			QP	AV	PK		QP	AV	PK		QP	AV	PK	QP	AV	PK	
Band1	0.46	N	18.3	12		19.9	38.2	31.9			56.7	46.7		18.5	14.8		Pass
Band1	0.46	N	17.1	6.5		19.9	37	26.4			56.6	46.6		19.6	20.2		Pass
Band1	0.49	N	18.2	10		19.9	38.1	30			56.2	46.2		18.1	16.2		Pass
Band1	0.49	N	17.6	9.8		19.9	37.5	29.7			56.2	46.2		18.7	16.5		Pass
Band1	0.49	N	17	7.6		19.9	36.9	27.5			56.1	46.1		19.2	18.6		Pass
Band1	1.02	N	11.8	0.6		19.9	31.7	20.5			56	46		24.3	25.5		Pass
Band1	0.45	L	15	4.9		19.9	34.9	24.8			56.9	46.9		22	22.1		Pass
Band1	0.46	L	20.2	15		19.9	40.1	34.7			56.8	46.8		16.7	12.1		Pass
Band1	0.48	L	18.3	6.7		19.9	38.2	26.6			56.3	46.3		18.1	19.7		Pass
Band1	0.49	L	18.1	10		19.9	38	30.3			56.2	46.2		18.2	15.9		Pass
Band1	0.53	L	13.7	1.4		19.9	33.6	21.3			56	46		22.4	24.7		Pass
Band1	2.43	L	12.7	0.4		19.9	32.6	20.3			56	46		23.4	25.7		Pass

---The end of the test report---