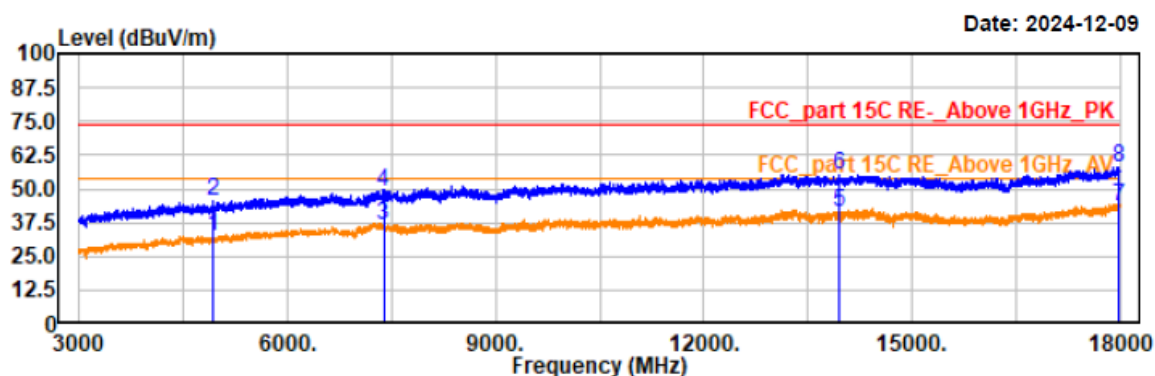


Project No.: 2407T76694E-RF
Test Mode: 11b-2462
EUT Model: PH81
Test distance: 3m

Temp/Humi/ATM: 23.1°C/53%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

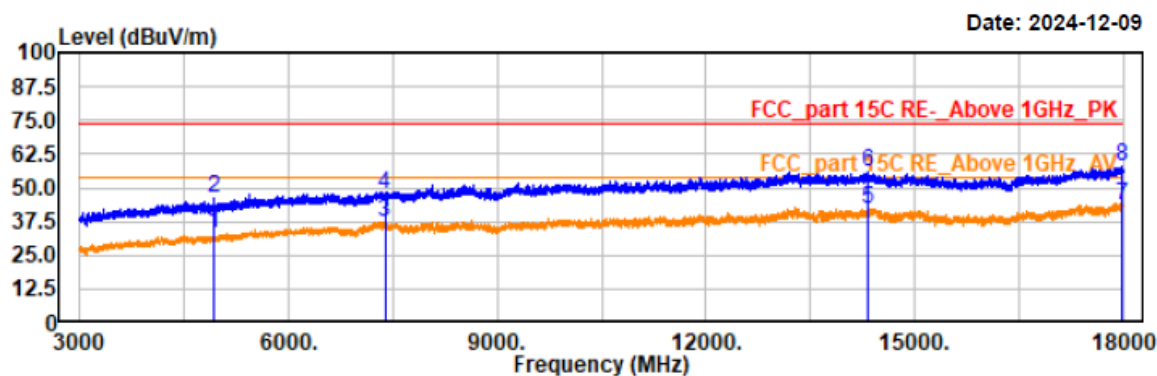
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4924.50	36.46	-4.12	32.34	54.00	21.66	horizontal	Average
4924.50	49.72	-4.12	45.60	74.00	28.40	horizontal	Peak
7386.00	37.90	-1.62	36.28	54.00	17.72	horizontal	Average
7386.00	50.62	-1.62	49.00	74.00	25.00	horizontal	Peak
13947.00	36.23	5.11	41.34	54.00	12.66	horizontal	Average
13947.00	50.32	5.11	55.43	74.00	18.57	horizontal	Peak
17991.00	35.53	7.72	43.25	54.00	10.75	horizontal	Average
17991.00	50.54	7.72	58.26	74.00	15.74	horizontal	Peak

Project No.: 2407T76694E-RF
Test Mode: 11b-2462
EUT Model: PH81
Test distance: 3m

Temp/Humi/ATM: 23.1°C/53%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

**Trace: 1**

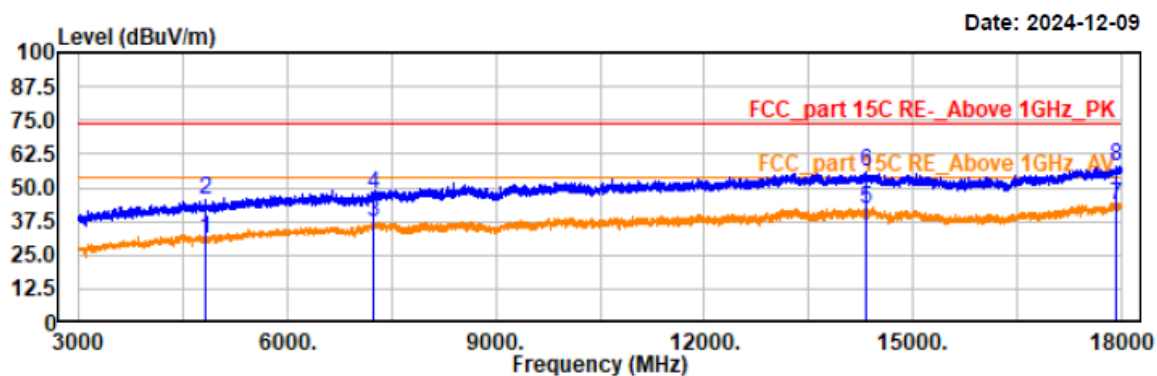
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBUV	Factor dB/m	Result dBUV/m	Limit dBUV/m	Margin dB	Polarity	Remark
4924.50	37.39	-4.12	33.27	54.00	20.73	vertical	Average
4924.50	50.48	-4.12	46.36	74.00	27.64	vertical	Peak
7386.00	38.94	-1.62	37.32	54.00	16.68	vertical	Average
7386.00	49.21	-1.62	47.59	74.00	26.41	vertical	Peak
14316.00	36.57	5.20	41.77	54.00	12.23	vertical	Average
14316.00	50.68	5.20	55.88	74.00	18.12	vertical	Peak
17991.00	35.57	7.72	43.29	54.00	10.71	vertical	Average
17991.00	49.92	7.72	57.64	74.00	16.36	vertical	Peak

Project No.: 2407T76694E-RF
Test Mode: 11g-2412
EUT Model: PH81
Test distance: 3m

Temp/Humi/ATM: 23.1°C/53%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

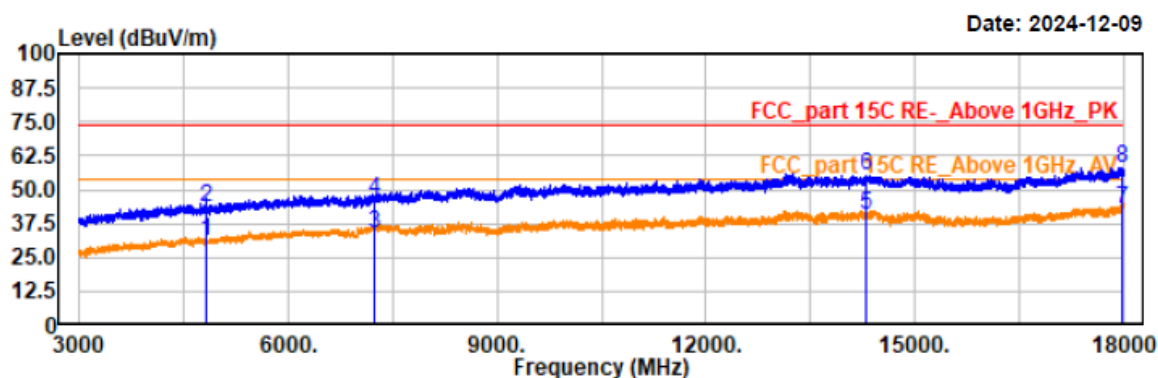
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4824.00	35.58	-4.39	31.19	54.00	22.81	horizontal	Average
4824.00	49.62	-4.39	45.23	74.00	28.77	horizontal	Peak
7236.00	38.73	-1.70	37.03	54.00	16.97	horizontal	Average
7236.00	48.97	-1.70	47.27	74.00	26.73	horizontal	Peak
14320.50	36.83	5.19	42.02	54.00	11.98	horizontal	Average
14320.50	50.33	5.19	55.52	74.00	18.48	horizontal	Peak
17932.50	35.88	7.63	43.51	54.00	10.49	horizontal	Average
17932.50	50.20	7.63	57.83	74.00	16.17	horizontal	Peak

Project No.: 2407T76694E-RF
Test Mode: 11g-2412
EUT Model: PH81
Test distance: 3m

Temp/Humi/ATM: 23.1°C/53%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

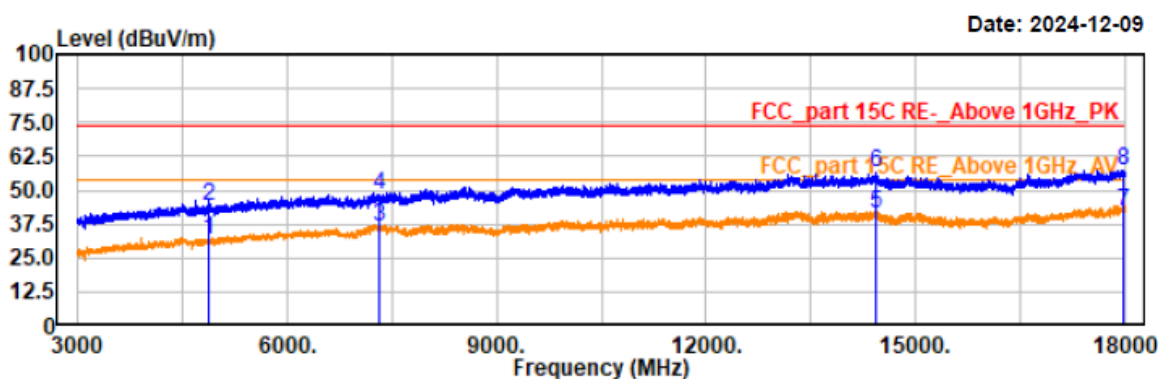
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4824.00	35.54	-4.39	31.15	54.00	22.85	vertical	Average
4824.00	47.57	-4.39	43.18	74.00	30.82	vertical	Peak
7236.00	35.74	-1.70	34.04	54.00	19.96	vertical	Average
7236.00	48.25	-1.70	46.55	74.00	27.45	vertical	Peak
14308.50	35.79	5.20	40.99	54.00	13.01	vertical	Average
14308.50	49.76	5.20	54.96	74.00	19.04	vertical	Peak
17989.50	34.88	7.72	42.60	54.00	11.40	vertical	Average
17989.50	50.15	7.72	57.87	74.00	16.13	vertical	Peak

Project No.: 2407T76694E-RF
Test Mode: 11g-2437
EUT Model: PH81
Test distance: 3m

Temp/Humi/ATM: 23.1°C/53%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



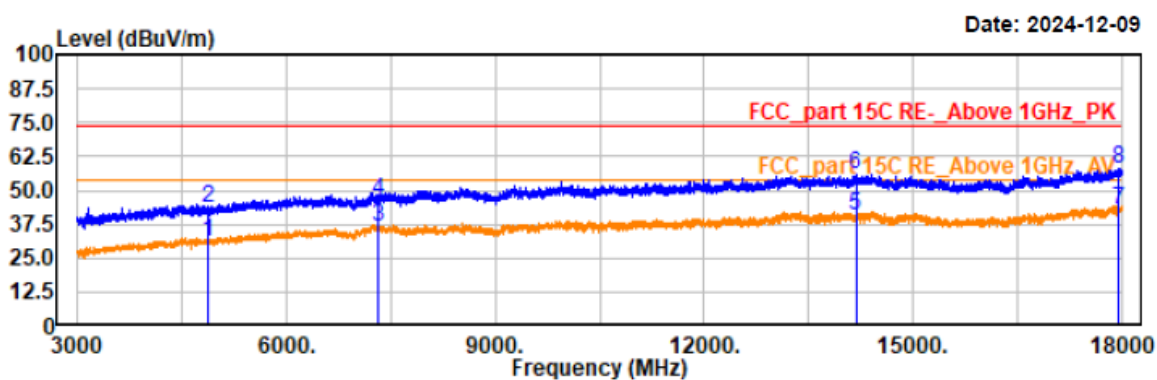
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4873.50	36.10	-4.26	31.84	54.00	22.16	horizontal	Average
4873.50	48.49	-4.26	44.23	74.00	29.77	horizontal	Peak
7311.00	38.35	-1.63	36.72	54.00	17.28	horizontal	Average
7311.00	49.85	-1.63	48.22	74.00	25.78	horizontal	Peak
14434.50	36.02	5.09	41.11	54.00	12.89	horizontal	Average
14434.50	51.37	5.09	56.46	74.00	17.54	horizontal	Peak
17973.00	34.44	7.70	42.14	54.00	11.86	horizontal	Average
17973.00	49.88	7.70	57.58	74.00	16.42	horizontal	Peak

Project No.: 2407T76694E-RF
Test Mode: 11g-2437
EUT Model: PH81
Test distance: 3m

Temp/Humi/ATM: 23.1°C/53%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



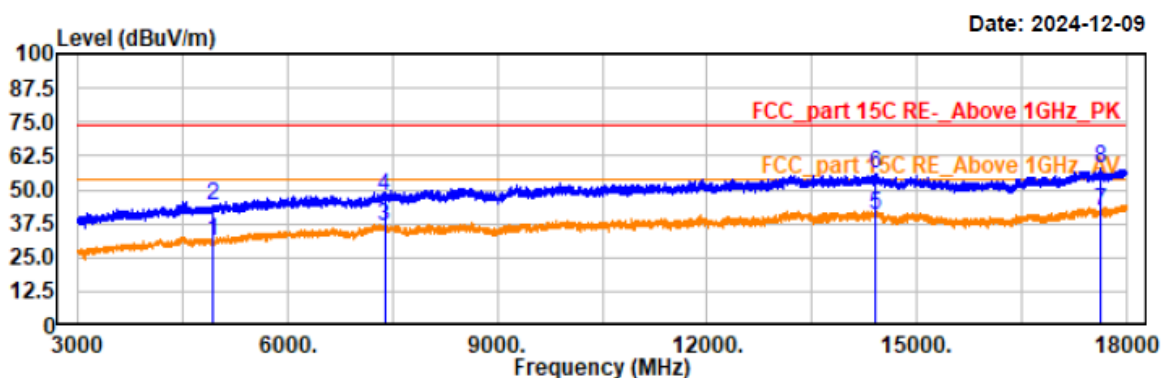
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4873.50	35.00	-4.26	30.74	54.00	23.26	vertical	Average
4873.50	47.48	-4.26	43.22	74.00	30.78	vertical	Peak
7311.00	38.52	-1.63	36.89	54.00	17.11	vertical	Average
7311.00	47.66	-1.63	46.03	74.00	27.97	vertical	Peak
14179.50	35.70	5.26	40.96	54.00	13.04	vertical	Average
14179.50	50.67	5.26	55.93	74.00	18.07	vertical	Peak
17947.50	34.97	7.66	42.63	54.00	11.37	vertical	Average
17947.50	50.04	7.66	57.70	74.00	16.30	vertical	Peak

Project No.: 2407T76694E-RF
Test Mode: 11g-2462
EUT Model: PH81
Test distance: 3m

Temp/Humi/ATM: 23.1°C/53%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



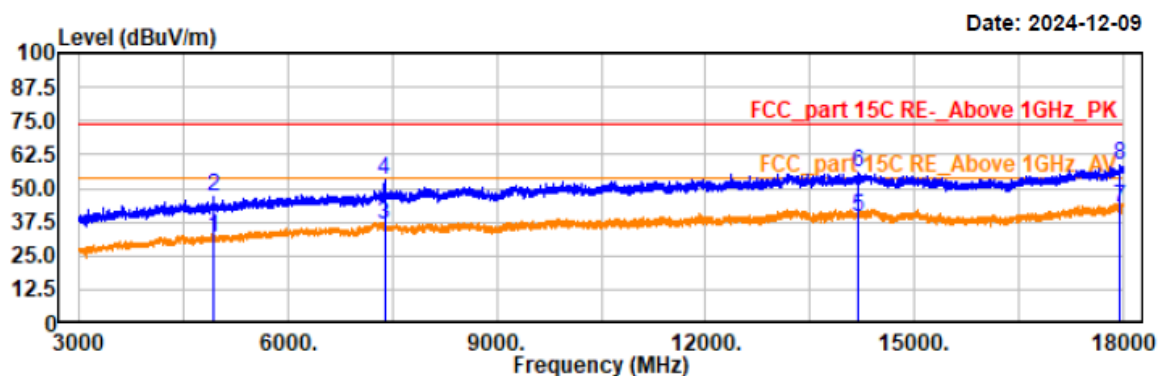
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4924.50	35.32	-4.12	31.20	54.00	22.80	horizontal	Average
4924.50	47.96	-4.12	43.84	74.00	30.16	horizontal	Peak
7386.00	37.93	-1.62	36.31	54.00	17.69	horizontal	Average
7386.00	49.16	-1.62	47.54	74.00	26.46	horizontal	Peak
14398.50	35.59	5.15	40.74	54.00	13.26	horizontal	Average
14398.50	50.96	5.15	56.11	74.00	17.89	horizontal	Peak
17641.50	35.33	6.73	42.06	54.00	11.94	horizontal	Average
17641.50	50.97	6.73	57.70	74.00	16.30	horizontal	Peak

Project No.: 2407T76694E-RF
Test Mode: 11g-2462
EUT Model: PH81
Test distance: 3m

Temp/Humi/ATM: 23.1°C/53%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



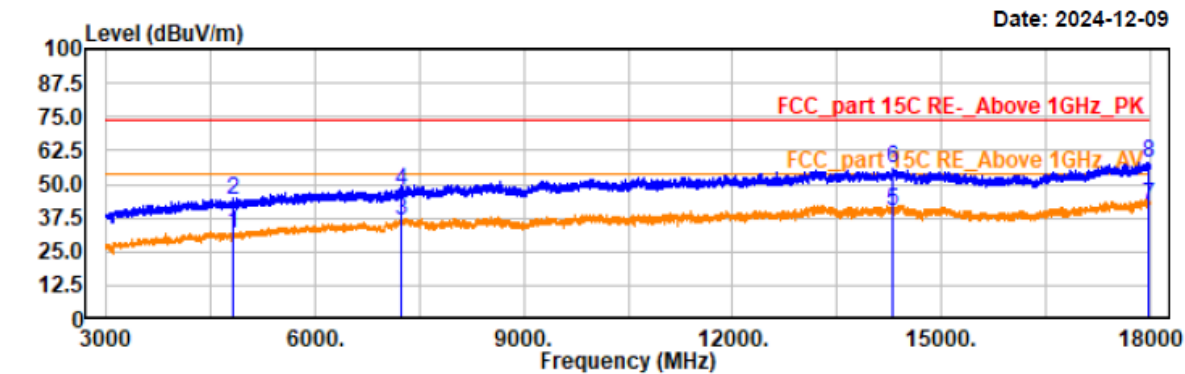
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBUV	Factor dB/m	Result dBUV/m	Limit dBUV/m	Margin dB	Polarity	Remark
4923.00	35.56	-4.13	31.43	54.00	22.57	vertical	Average
4923.00	50.77	-4.13	46.64	74.00	27.36	vertical	Peak
7386.00	38.41	-1.62	36.79	54.00	17.21	vertical	Average
7386.00	54.92	-1.62	53.30	74.00	20.70	vertical	Peak
14193.00	33.75	5.26	39.01	54.00	14.99	vertical	Average
14193.00	50.32	5.26	55.58	74.00	18.42	vertical	Peak
17949.00	35.12	7.67	42.79	54.00	11.21	vertical	Average
17949.00	50.91	7.67	58.58	74.00	15.42	vertical	Peak

Project No.: 2407T76694E-RF
Test Mode: 11n20-2412
EUT Model: PH81
Test distance: 3m

Temp/Humi/ATM: 23.1°C/53%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



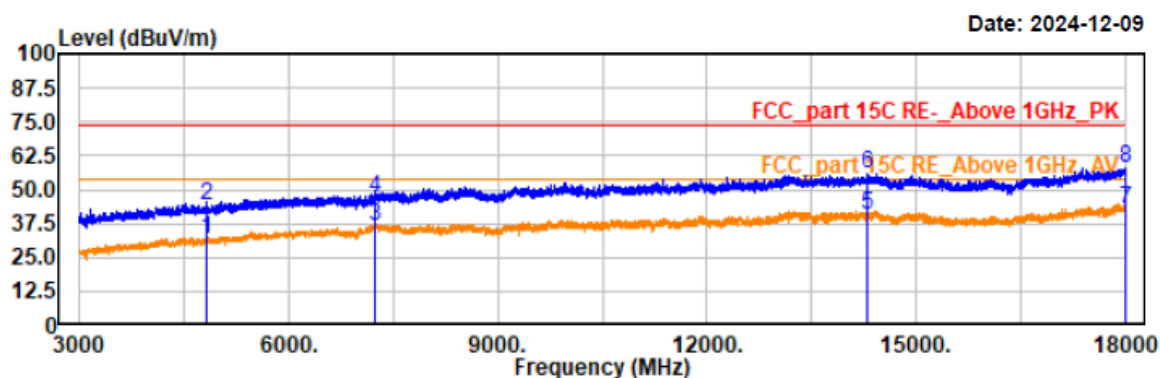
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4824.00	36.21	-4.39	31.82	54.00	22.18	horizontal	Average
4824.00	48.47	-4.39	44.08	74.00	29.92	horizontal	Peak
7236.00	38.26	-1.70	36.56	54.00	17.44	horizontal	Average
7236.00	49.25	-1.70	47.55	74.00	26.45	horizontal	Peak
14292.00	34.92	5.20	40.12	54.00	13.88	horizontal	Average
14292.00	50.32	5.20	55.52	74.00	18.48	horizontal	Peak
17976.00	34.67	7.71	42.38	54.00	11.62	horizontal	Average
17976.00	50.23	7.71	57.94	74.00	16.06	horizontal	Peak

Project No.: 2407T76694E-RF
Test Mode: 11n20-2412
EUT Model: PH81
Test distance: 3m

Temp/Humi/ATM: 23.1°C/53%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

**Trace: 1**

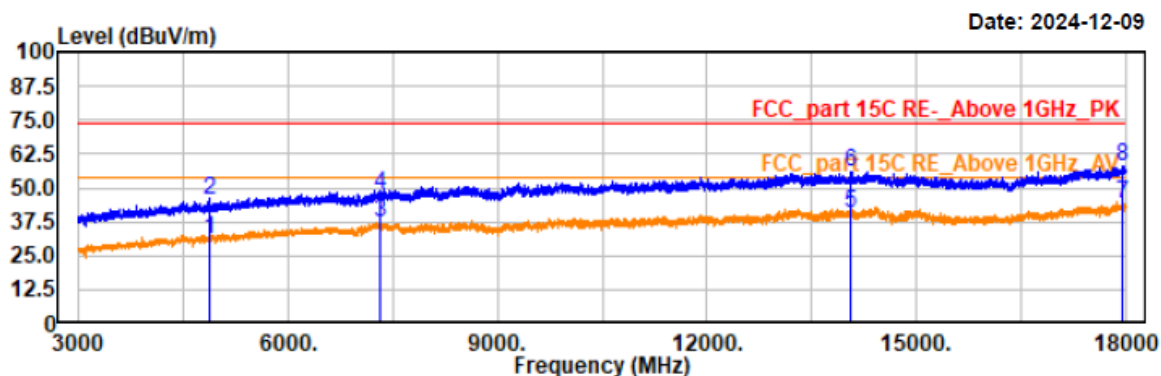
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4824.00	36.11	-4.39	31.72	54.00	22.28	vertical	Average
4824.00	48.42	-4.39	44.03	74.00	29.97	vertical	Peak
7236.00	38.11	-1.70	36.41	54.00	17.59	vertical	Average
7236.00	48.91	-1.70	47.21	74.00	26.79	vertical	Peak
14299.50	35.23	5.20	40.43	54.00	13.57	vertical	Average
14299.50	50.62	5.20	55.82	74.00	18.18	vertical	Peak
17992.50	34.91	7.72	42.63	54.00	11.37	vertical	Average
17992.50	50.10	7.72	57.82	74.00	16.18	vertical	Peak

Project No.: 2407T76694E-RF
Test Mode: 11n20-2437
EUT Model: PH81
Test distance: 3m

Temp/Humi/ATM: 23.1°C/53%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

**Trace: 1**

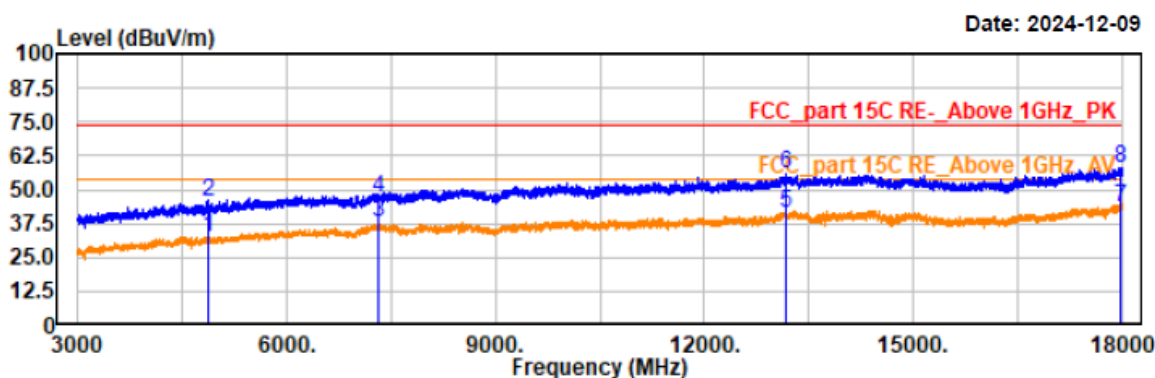
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4873.50	35.03	-4.26	30.77	54.00	23.23	horizontal	Average
4873.50	49.81	-4.26	45.55	74.00	28.45	horizontal	Peak
7311.00	38.62	-1.63	36.99	54.00	17.01	horizontal	Average
7311.00	49.30	-1.63	47.67	74.00	26.33	horizontal	Peak
14065.50	35.78	5.18	40.96	54.00	13.04	horizontal	Average
14065.50	50.63	5.18	55.81	74.00	18.19	horizontal	Peak
17958.00	36.47	7.68	44.15	54.00	9.85	horizontal	Average
17958.00	50.59	7.68	58.27	74.00	15.73	horizontal	Peak

Project No.: 2407T76694E-RF
Test Mode: 11n20-2437
EUT Model: PH81
Test distance: 3m

Temp/Humi/ATM: 23.1°C/53%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

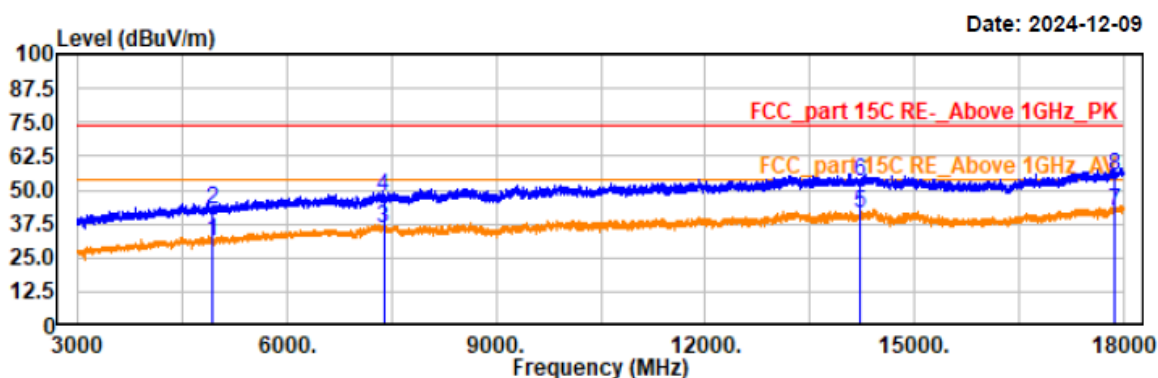
**Trace: 1**

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4873.50	36.43	-4.26	32.17	54.00	21.83	vertical	Average
4873.50	49.50	-4.26	45.24	74.00	28.76	vertical	Peak
7311.00	39.73	-1.63	38.10	54.00	15.90	vertical	Average
7311.00	48.71	-1.63	47.08	74.00	26.92	vertical	Peak
13185.00	36.28	5.06	41.34	54.00	12.66	vertical	Average
13185.00	50.52	5.06	55.58	74.00	18.42	vertical	Peak
17971.50	35.73	7.69	43.42	54.00	10.58	vertical	Average
17971.50	50.34	7.69	58.03	74.00	15.97	vertical	Peak

Project No.: 2407T76694E-RF
Test Mode: 11n20-2462
EUT Model: PH81
Test distance: 3m

Temp/Humi/ATM: 23.1°C/53%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

**Trace: 1**

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4924.50	35.45	-4.12	31.33	54.00	22.67	horizontal	Average
4924.50	46.80	-4.12	42.68	74.00	31.32	horizontal	Peak
7386.00	37.17	-1.62	35.55	54.00	18.45	horizontal	Average
7386.00	48.93	-1.62	47.31	74.00	26.69	horizontal	Peak
14215.50	35.86	5.25	41.11	54.00	12.89	horizontal	Average
14215.50	48.15	5.25	53.40	74.00	20.60	horizontal	Peak
17866.50	34.62	7.47	42.09	54.00	11.91	horizontal	Average
17866.50	47.90	7.47	55.37	74.00	18.63	horizontal	Peak

Project No.: 2407T76694E-RF

Test Mode: 11n20-2462

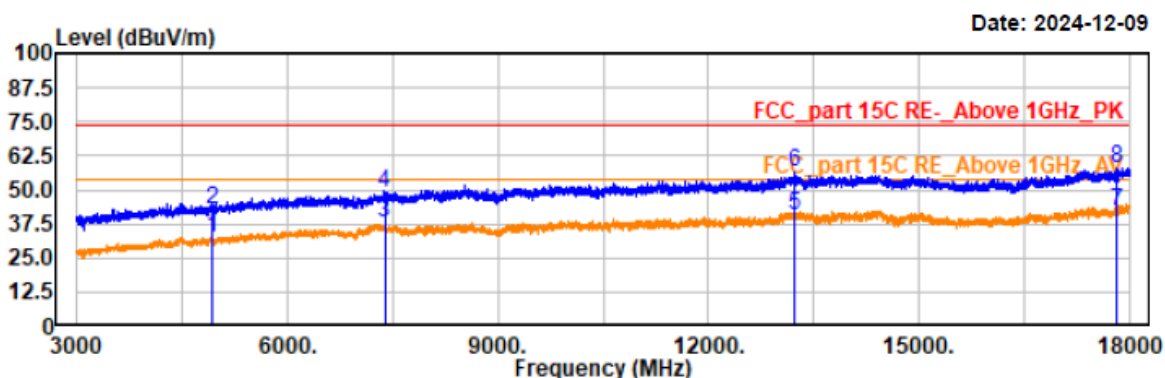
EUT Model: PH81

Test distance: 3m

Temp/Humi/ATM: 23.1°C/53%/100.1kPa

Tested by: Wlif Wu

Power Source: AC 120V/60Hz



Trace: 1

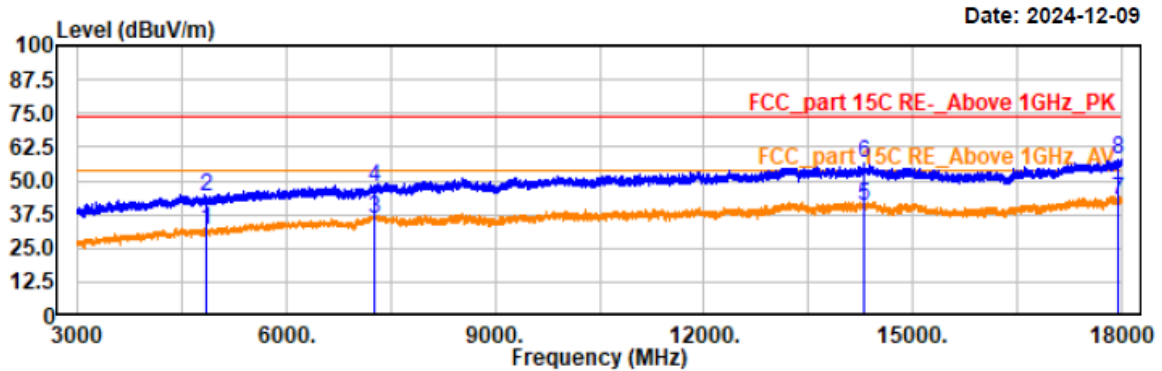
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4924.50	36.84	-4.12	32.72	54.00	21.28	vertical	Average
4924.50	46.87	-4.12	42.75	74.00	31.25	vertical	Peak
7386.00	39.36	-1.62	37.74	54.00	16.26	vertical	Average
7386.00	50.27	-1.62	48.65	74.00	25.35	vertical	Peak
13230.00	35.68	5.05	40.73	54.00	13.27	vertical	Average
13230.00	51.39	5.05	56.44	74.00	17.56	vertical	Peak
17823.00	34.97	7.31	42.28	54.00	11.72	vertical	Average
17823.00	50.75	7.31	58.06	74.00	15.94	vertical	Peak

Project No.: 2407T76694E-RF
Test Mode: 11n40-2422
EUT Model: PH81
Test distance: 3m

Temp/Humi/ATM: 23.1°C/53%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

**Trace: 1**

Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4843.50	36.04	-4.34	31.70	54.00	22.30	horizontal	Average
4843.50	48.34	-4.34	44.00	74.00	30.00	horizontal	Peak
7266.00	37.77	-1.66	36.11	54.00	17.89	horizontal	Average
7266.00	49.25	-1.66	47.59	74.00	26.41	horizontal	Peak
14299.50	35.28	5.20	40.48	54.00	13.52	horizontal	Average
14299.50	51.69	5.20	56.89	74.00	17.11	horizontal	Peak
17947.50	35.15	7.66	42.81	54.00	11.19	horizontal	Average
17947.50	50.10	7.66	57.76	74.00	16.24	horizontal	Peak

Project No.: 2407T76694E-RF

Test Mode: 11n40-2422

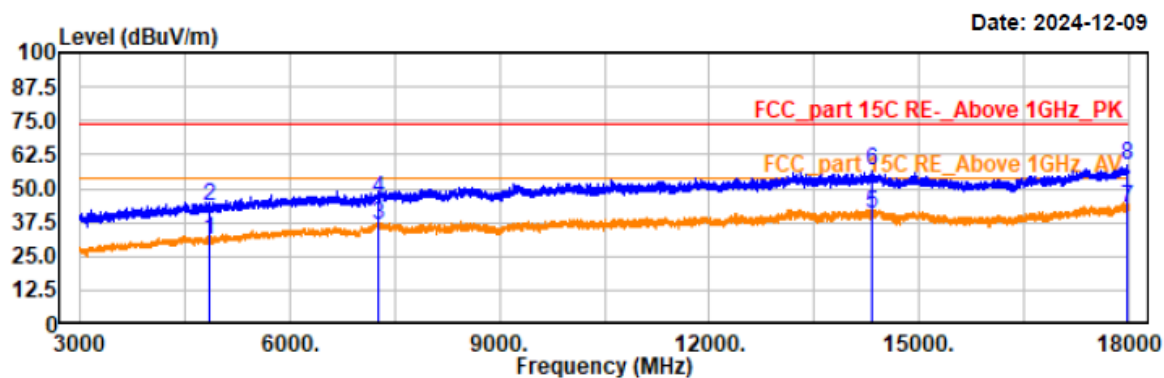
EUT Model: PH81

Test distance: 3m

Temp/Humi/ATM: 23.1°C/53%/100.1kPa

Tested by: Wlif Wu

Power Source: AC 120V/60Hz



Trace: 1

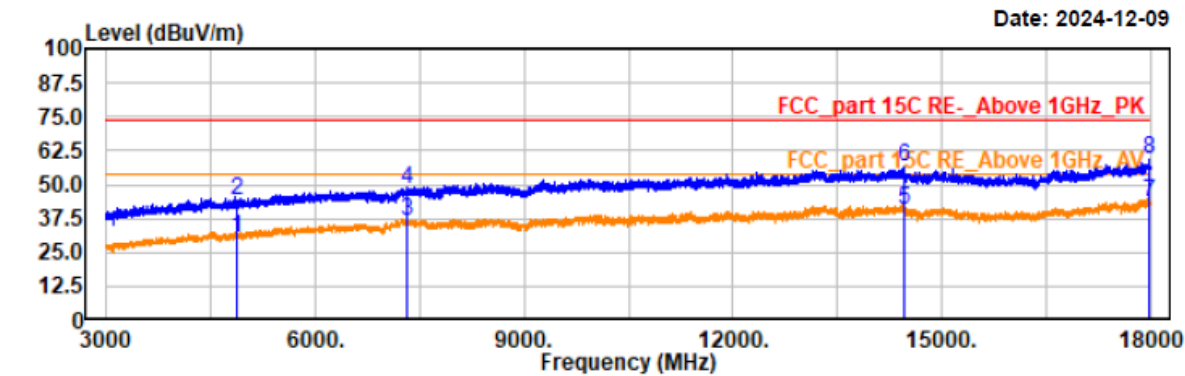
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4843.50	35.38	-4.34	31.04	54.00	22.96	vertical	Average
4843.50	47.87	-4.34	43.53	74.00	30.47	vertical	Peak
7266.00	38.16	-1.66	36.50	54.00	17.50	vertical	Average
7266.00	47.68	-1.66	46.02	74.00	27.98	vertical	Peak
14319.00	35.58	5.20	40.78	54.00	13.22	vertical	Average
14319.00	51.18	5.20	56.38	74.00	17.62	vertical	Peak
17976.00	35.14	7.71	42.85	54.00	11.15	vertical	Average
17976.00	50.59	7.71	58.30	74.00	15.70	vertical	Peak

Project No.: 2407T76694E-RF
Test Mode: 11n40-2437
EUT Model: PH81
Test distance: 3m

Temp/Humi/ATM: 23.1°C/53%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



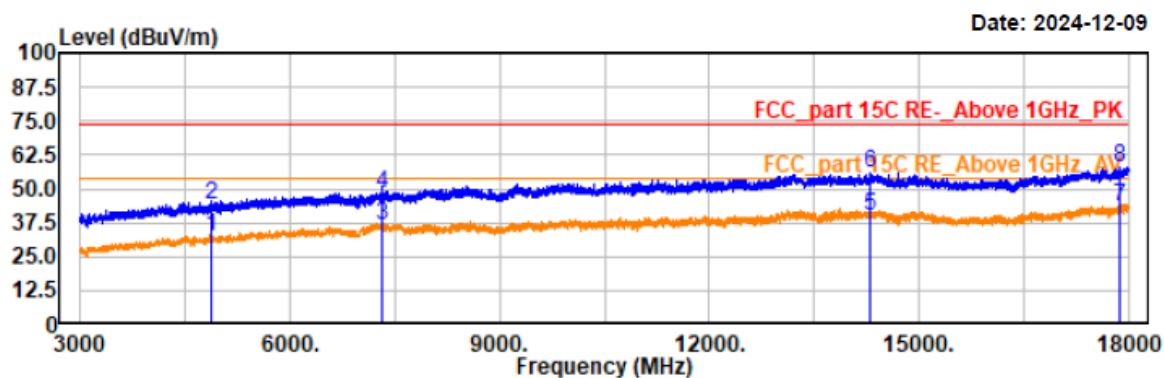
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4873.50	34.52	-4.26	30.26	54.00	23.74	horizontal	Average
4873.50	48.50	-4.26	44.24	74.00	29.76	horizontal	Peak
7311.00	38.25	-1.63	36.62	54.00	17.38	horizontal	Average
7311.00	49.70	-1.63	48.07	74.00	25.93	horizontal	Peak
14461.50	35.77	5.04	40.81	54.00	13.19	horizontal	Average
14461.50	51.23	5.04	56.27	74.00	17.73	horizontal	Peak
17986.50	35.83	7.72	43.55	54.00	10.45	horizontal	Average
17986.50	51.31	7.72	59.03	74.00	14.97	horizontal	Peak

Project No.: 2407T76694E-RF
Test Mode: 11n40-2437
EUT Model: PH81
Test distance: 3m

Temp/Humi/ATM: 23.1°C/53%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



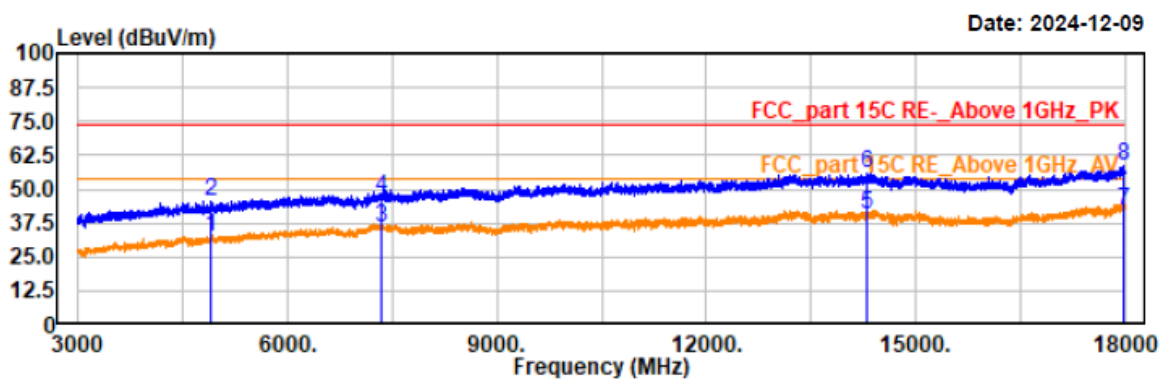
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4873.50	36.61	-4.26	32.35	54.00	21.65	vertical	Average
4873.50	48.46	-4.26	44.20	74.00	29.80	vertical	Peak
7311.00	37.99	-1.63	36.36	54.00	17.64	vertical	Average
7311.00	49.58	-1.63	47.95	74.00	26.05	vertical	Peak
14299.50	35.14	5.20	40.34	54.00	13.66	vertical	Average
14299.50	50.82	5.20	56.02	74.00	17.98	vertical	Peak
17872.50	35.67	7.50	43.17	54.00	10.83	vertical	Average
17872.50	50.16	7.50	57.66	74.00	16.34	vertical	Peak

Project No.: 2407T76694E-RF
Test Mode: 11n40-2452
EUT Model: PH81
Test distance: 3m

Temp/Humi/ATM: 23.1°C/53%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

**Trace: 1**

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4903.50	36.78	-4.18	32.60	54.00	21.40	horizontal	Average
4903.50	49.39	-4.18	45.21	74.00	28.79	horizontal	Peak
7356.00	37.50	-1.59	35.91	54.00	18.09	horizontal	Average
7356.00	48.15	-1.59	46.56	74.00	27.44	horizontal	Peak
14310.00	35.56	5.20	40.76	54.00	13.24	horizontal	Average
14310.00	50.66	5.20	55.86	74.00	18.14	horizontal	Peak
17989.50	34.59	7.72	42.31	54.00	11.69	horizontal	Average
17989.50	50.95	7.72	58.67	74.00	15.33	horizontal	Peak

Project No.: 2407T76694E-RF

Test Mode: 11n40-2452

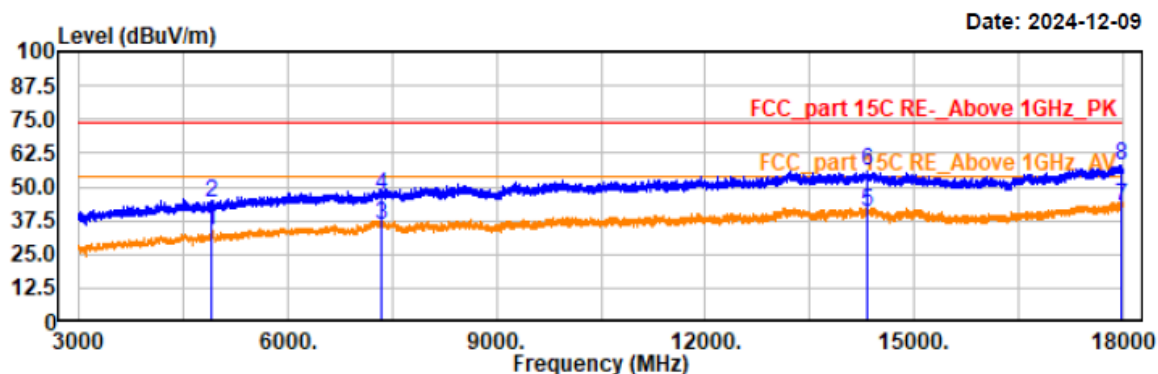
EUT Model: PH81

Test distance: 3m

Temp/Humi/ATM: 23.1°C/53%/100.1kPa

Tested by: Wlif Wu

Power Source: AC 120V/60Hz



Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4903.50	37.78	-4.18	33.60	54.00	20.40	vertical	Average
4903.50	48.23	-4.18	44.05	74.00	29.95	vertical	Peak
7356.00	37.54	-1.59	35.95	54.00	18.05	vertical	Average
7356.00	48.77	-1.59	47.18	74.00	26.82	vertical	Peak
14322.00	35.64	5.19	40.83	54.00	13.17	vertical	Average
14322.00	50.57	5.19	55.76	74.00	18.24	vertical	Peak
17983.50	35.29	7.72	43.01	54.00	10.99	vertical	Average
17983.50	50.43	7.72	58.15	74.00	15.85	vertical	Peak

5) 18GHz~25GHz

For BLE:

EUT operation mode: Transmitting in BLE 1Mbps low channel in Z-axis of orientation (worst case).

Project No.: 2407T76694E-RF

Temp/Humi/ATM: 23.8°C/58%/100.1kPa

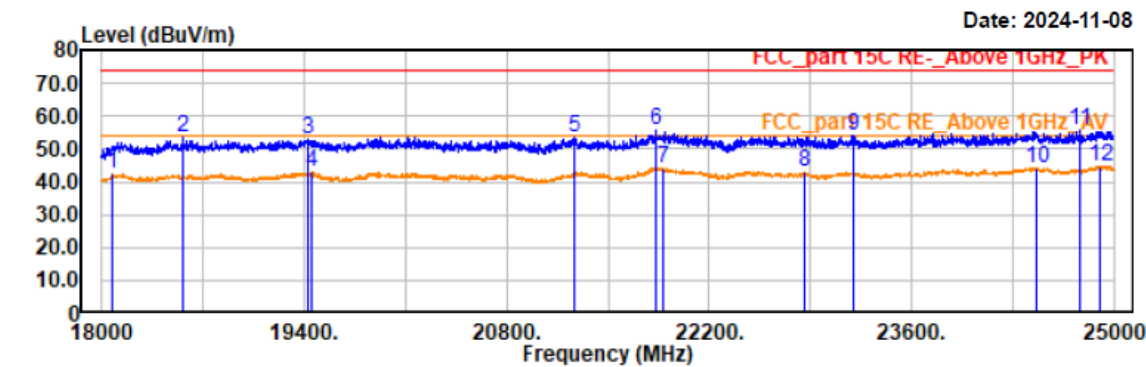
Test Mode: BLE 1M 2402MHz

Tested by: Wlif Wu

EUT Model: PH81

Power Source: AC 120V/60Hz

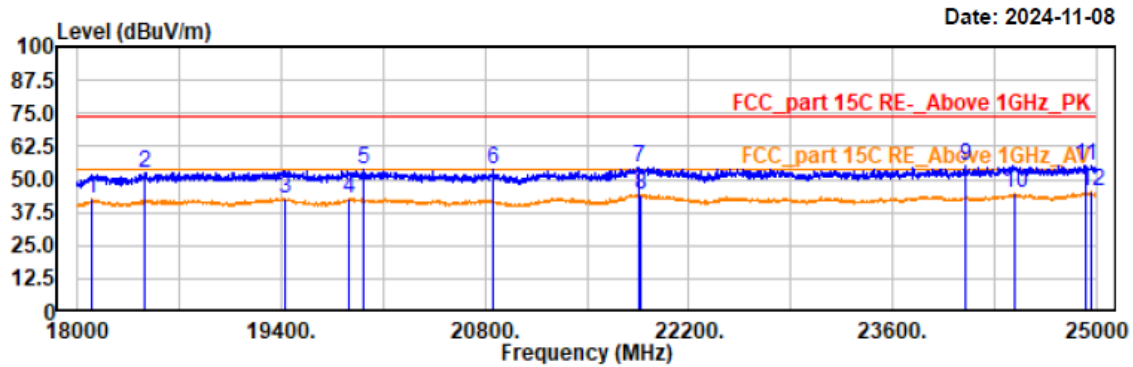
Test distance: 1m



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
18079.20	27.75	14.57	42.32	54.00	11.68	horizontal	Average
18563.20	38.64	14.86	53.50	74.00	20.50	horizontal	Peak
19427.80	37.79	15.06	52.85	74.00	21.15	horizontal	Peak
19447.60	28.03	15.06	43.09	54.00	10.91	horizontal	Average
21267.00	37.44	16.09	53.53	74.00	20.47	horizontal	Peak
21830.20	39.13	16.37	55.50	74.00	18.50	horizontal	Peak
21878.60	27.79	16.58	44.37	54.00	9.63	horizontal	Average
22862.00	26.28	16.66	42.94	54.00	11.06	horizontal	Average
23194.20	37.04	16.94	53.98	74.00	20.02	horizontal	Peak
24461.40	25.43	18.96	44.39	54.00	9.61	horizontal	Average
24762.80	36.66	18.93	55.59	74.00	18.41	horizontal	Peak
24901.40	25.79	18.88	44.67	54.00	9.33	horizontal	Average

Project No.: 2407T76694E-RF
Test Mode: BLE 1M 2402MHz
EUT Model: PH81
Test distance: 1m

Temp/Humi/ATM: 23.8°C/58%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



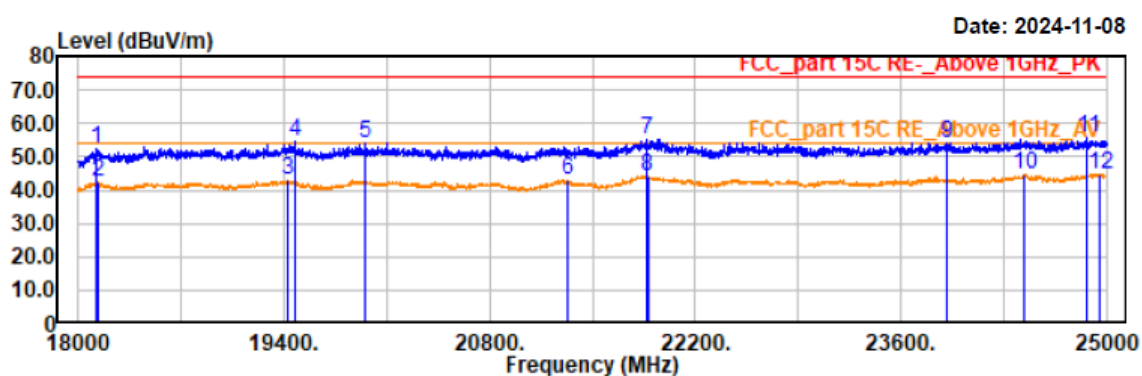
Trace: 1

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
18099.00	27.84	14.58	42.42	54.00	11.58	vertical	Average
18457.60	37.60	14.80	52.40	74.00	21.60	vertical	Peak
19430.00	27.95	15.06	43.01	54.00	10.99	vertical	Average
19870.00	27.87	15.11	42.98	54.00	11.02	vertical	Average
19960.20	38.87	15.12	53.99	74.00	20.01	vertical	Peak
20853.40	38.07	15.70	53.77	74.00	20.23	vertical	Peak
21861.00	38.21	16.47	54.68	74.00	19.32	vertical	Peak
21872.00	27.77	16.56	44.33	54.00	9.67	vertical	Average
24098.40	37.23	18.26	55.49	74.00	18.51	vertical	Peak
24441.60	25.59	18.92	44.51	54.00	9.49	vertical	Average
24927.80	36.45	18.86	55.31	74.00	18.69	vertical	Peak
24963.00	26.44	18.85	45.29	54.00	8.71	vertical	Average

For 2.4G WIFI:*EUT operation mode: Transmitting in Wifi 802.11n20 high channel in Z-axis of orientation (worst case)*

Project No.: 2407T76694E-RF
Test Mode: 802.11n20 2462MHz
EUT Model: PH81
Test distance: 1m

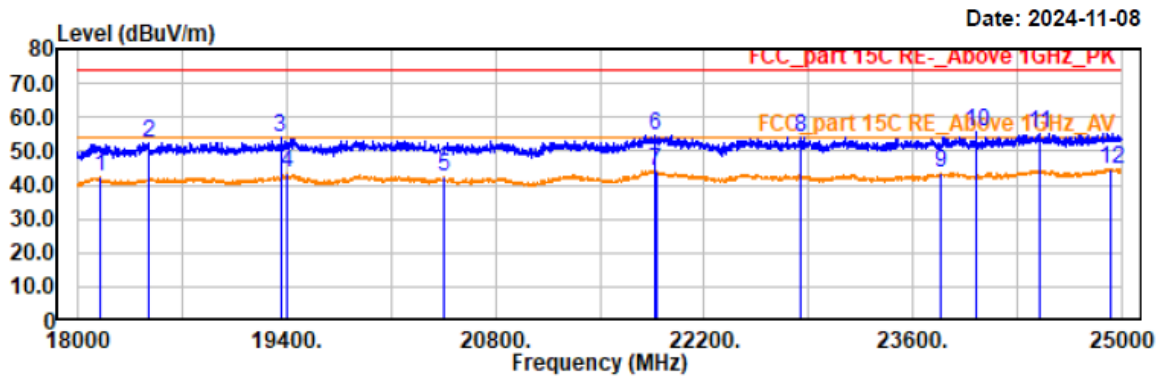
Temp/Humi/ATM: 23.8°C/58%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

**Trace: 1**

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
18125.40	37.72	14.58	52.30	74.00	21.70	horizontal	Peak
18136.40	27.72	14.59	42.31	54.00	11.69	horizontal	Average
19432.20	27.98	15.06	43.04	54.00	10.96	horizontal	Average
19471.80	39.30	15.06	54.36	74.00	19.64	horizontal	Peak
19953.60	38.80	15.12	53.92	74.00	20.08	horizontal	Peak
21328.60	26.96	16.07	43.03	54.00	10.97	horizontal	Average
21867.60	38.62	16.52	55.14	74.00	18.86	horizontal	Peak
21876.40	27.72	16.59	44.31	54.00	9.69	horizontal	Average
23918.00	36.38	17.96	54.34	74.00	19.66	horizontal	Peak
24443.80	25.58	18.93	44.51	54.00	9.49	horizontal	Average
24870.60	36.69	18.88	55.57	74.00	18.43	horizontal	Peak
24947.60	26.00	18.86	44.86	54.00	9.14	horizontal	Average

Project No.: 2407T76694E-RF
Test Mode: 802.11n20 2462MHz
EUT Model: PH81
Test distance: 1m

Temp/Humi/ATM: 23.8°C/58%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

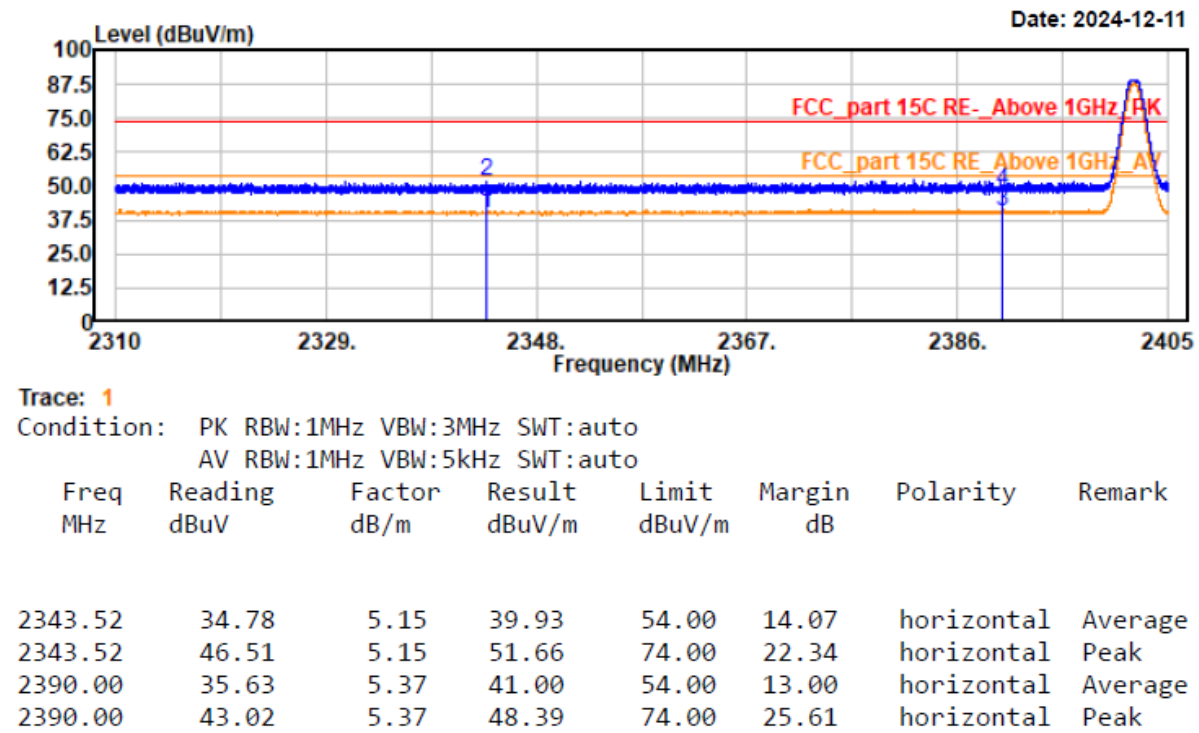
Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
18145.20	27.72	14.60	42.32	54.00	11.68	vertical	Average
18470.80	37.79	14.81	52.60	74.00	21.40	vertical	Peak
19357.40	38.82	15.04	53.86	74.00	20.14	vertical	Peak
19401.40	28.29	15.05	43.34	54.00	10.66	vertical	Average
20457.40	26.29	15.94	42.23	54.00	11.77	vertical	Average
21867.60	38.13	16.52	54.65	74.00	19.35	vertical	Peak
21876.40	27.79	16.59	44.38	54.00	9.62	vertical	Average
22853.20	37.49	16.66	54.15	74.00	19.85	vertical	Peak
23792.60	25.71	17.79	43.50	54.00	10.50	vertical	Average
24025.80	37.66	18.12	55.78	74.00	18.22	vertical	Peak
24446.00	36.22	18.93	55.15	74.00	18.85	vertical	Peak
24932.20	26.04	18.86	44.90	54.00	9.10	vertical	Average

Restricted Bands Emissions:

For BLE:

Project No.: 2407T76694E-RF
Test Mode: 1M-2402
EUT Model: PH81
Test distance: 3m

Temp/Humi/ATM: 23.3℃/54%/100.3kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Project No.: 2407T76694E-RF

Test Mode: 1M-2402

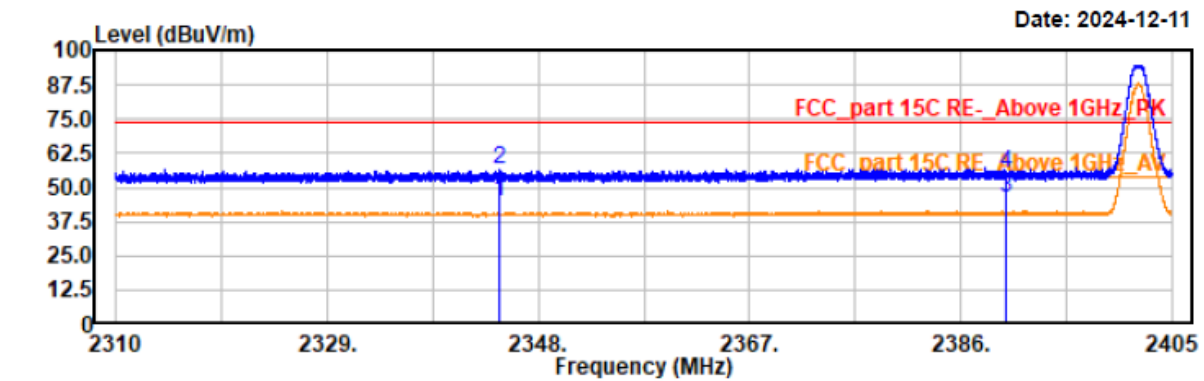
EUT Model: PH81

Test distance: 3m

Temp/Humi/ATM: 23.3℃/54%/100.3kPa

Tested by: Wlif Wu

Power Source: AC 120V/60Hz



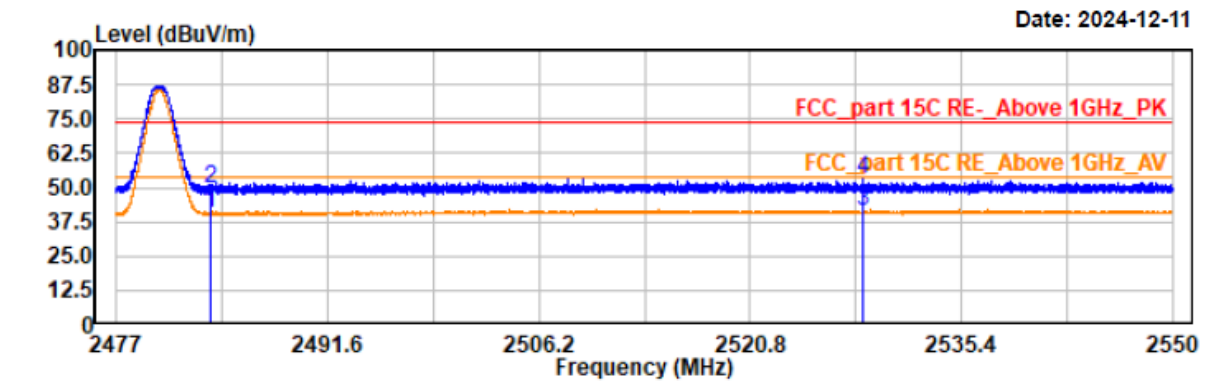
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2344.46	39.42	5.15	44.57	54.00	9.43	vertical	Average
2344.46	51.37	5.15	56.52	74.00	17.48	vertical	Peak
2390.00	40.52	5.37	45.89	54.00	8.11	vertical	Average
2390.00	49.86	5.37	55.23	74.00	18.77	vertical	Peak

Project No.: 2407T76694E-RF
Test Mode: 1M-2480
EUT Model: PH81
Test distance: 3m

Temp/Humi/ATM: 23.3℃/54%/100.3kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	34.78	5.83	40.61	54.00	13.39	horizontal	Average
2483.50	44.10	5.83	49.93	74.00	24.07	horizontal	Peak
2528.55	35.27	5.95	41.22	54.00	12.78	horizontal	Average
2528.55	46.83	5.95	52.78	74.00	21.22	horizontal	Peak

Project No.: 2407T76694E-RF

Test Mode: 1M-2480

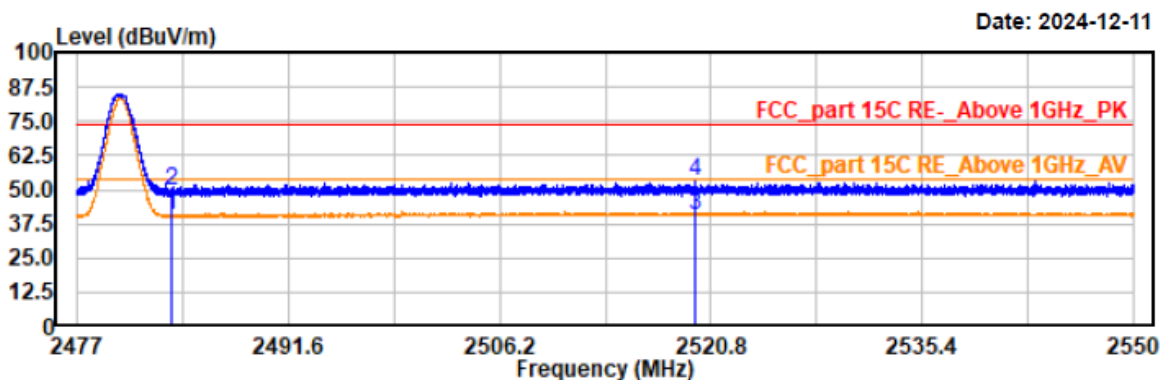
EUT Model: PH81

Test distance: 3m

Temp/Humi/ATM: 23.3°C/54%/100.3kPa

Tested by: Wlif Wu

Power Source: AC 120V/60Hz



Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	34.65	5.83	40.48	54.00	13.52	vertical	Average
2483.50	43.91	5.83	49.74	74.00	24.26	vertical	Peak
2519.67	34.77	5.94	40.71	54.00	13.29	vertical	Average
2519.67	46.87	5.94	52.81	74.00	21.19	vertical	Peak

Project No.: 2407T76694E-RF

Test Mode: 2M-2402

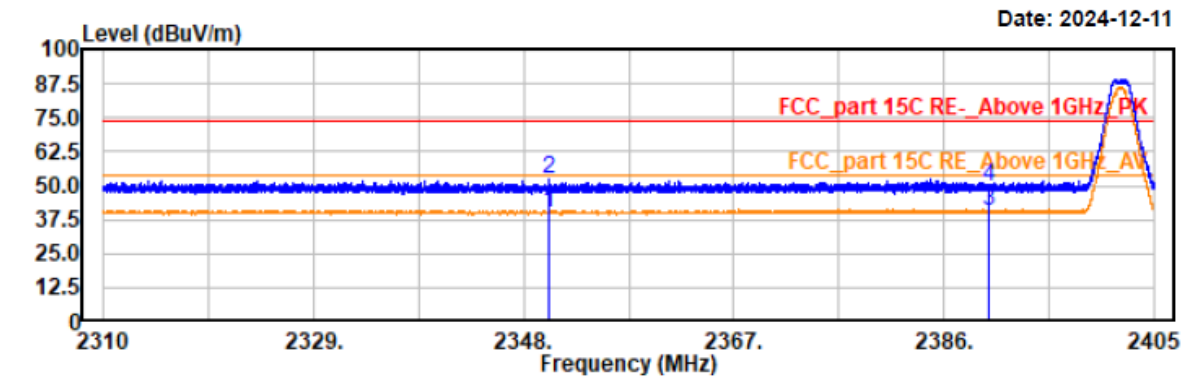
EUT Model: PH81

Test distance: 3m

Temp/Humi/ATM: 23.3℃/54%/100.3kPa

Tested by: Wlif Wu

Power Source: AC 120V/60Hz



Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2350.35	34.70	5.17	39.87	54.00	14.13	horizontal	Average
2350.35	46.95	5.17	52.12	74.00	21.88	horizontal	Peak
2390.00	35.31	5.37	40.68	54.00	13.32	horizontal	Average
2390.00	43.96	5.37	49.33	74.00	24.67	horizontal	Peak

Project No.: 2407T76694E-RF

Test Mode: 2M-2402

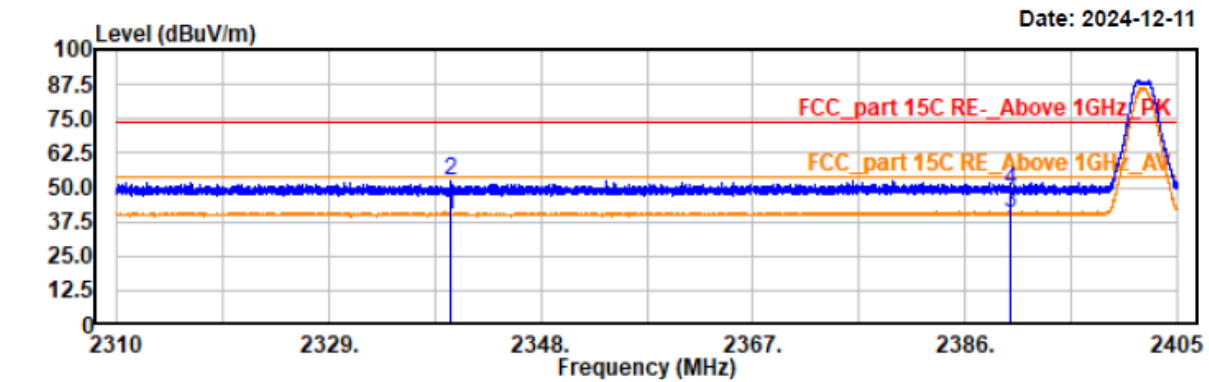
EUT Model: PH81

Test distance: 3m

Temp/Humi/ATM: 23.3℃/54%/100.3kPa

Tested by: Wlif Wu

Power Source: AC 120V/60Hz



Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2339.87	34.75	5.14	39.89	54.00	14.11	vertical	Average
2339.87	47.11	5.14	52.25	74.00	21.75	vertical	Peak
2390.00	35.55	5.37	40.92	54.00	13.08	vertical	Average
2390.00	43.26	5.37	48.63	74.00	25.37	vertical	Peak

Project No.: 2407T76694E-RF

Test Mode: 2M-2480

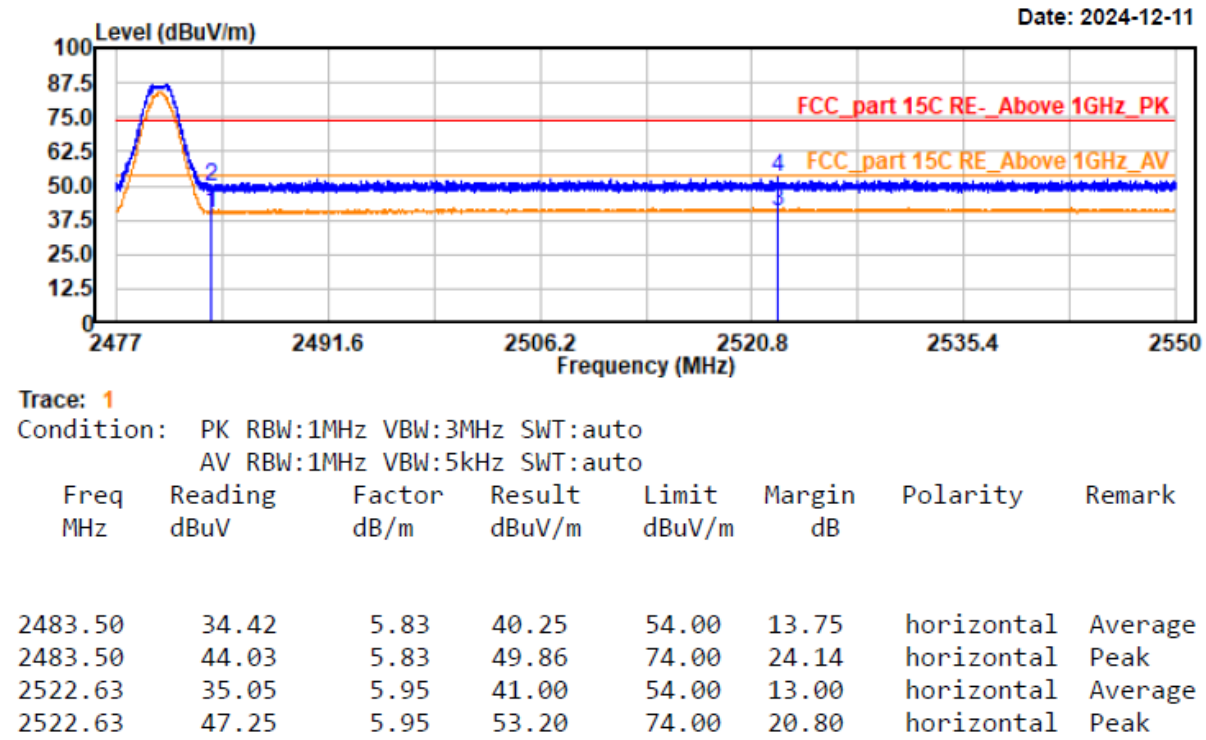
EUT Model: PH81

Test distance: 3m

Temp/Humi/ATM: 23.3℃/54%/100.3kPa

Tested by: Wlif Wu

Power Source: AC 120V/60Hz



Project No.: 2407T76694E-RF

Test Mode: 2M-2480

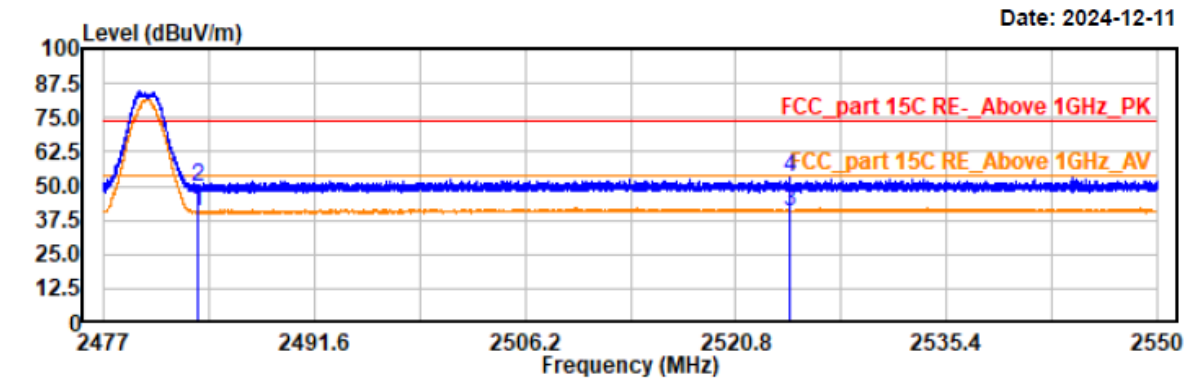
EUT Model: PH81

Test distance: 3m

Temp/Humi/ATM: 23.3℃/54%/100.3kPa

Tested by: Wlif Wu

Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	34.94	5.83	40.77	54.00	13.23	vertical	Average
2483.50	43.80	5.83	49.63	74.00	24.37	vertical	Peak
2524.53	34.80	5.94	40.74	54.00	13.26	vertical	Average
2524.53	47.11	5.94	53.05	74.00	20.95	vertical	Peak

For 2.4G WIFI:

Project No.: 2407T76694E-RF

Test Mode: 11b-2412

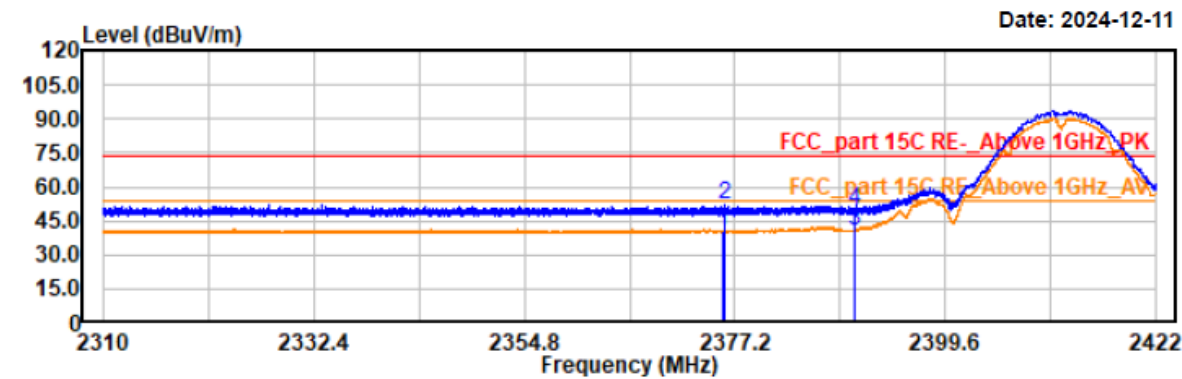
EUT Model: PH81

Test distance: 3m

Temp/Humi/ATM: 23.3℃/54%/100.3kPa

Tested by: Wlif Wu

Power Source: AC 120V/60Hz



Trace: 1

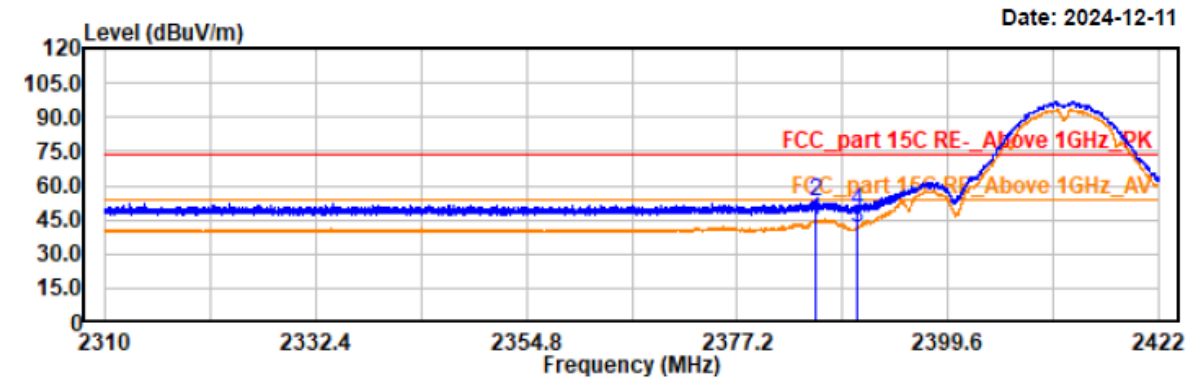
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2376.00	34.94	5.29	40.23	54.00	13.77	horizontal	Average
2376.08	46.48	5.29	51.77	74.00	22.23	horizontal	Peak
2390.00	35.23	5.37	40.60	54.00	13.40	horizontal	Average
2390.00	44.05	5.37	49.42	74.00	24.58	horizontal	Peak

Project No.: 2407T76694E-RF
Test Mode: 11b-2412
EUT Model: PH81
Test distance: 3m

Temp/Humi/ATM: 23.3℃/54%/100.3kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2385.48	39.09	5.34	44.43	54.00	9.57	vertical	Average
2385.48	47.34	5.34	52.68	74.00	21.32	vertical	Peak
2390.00	36.32	5.37	41.69	54.00	12.31	vertical	Average
2390.00	43.70	5.37	49.07	74.00	24.93	vertical	Peak

Project No.: 2407T76694E-RF

Test Mode: 11b-2462

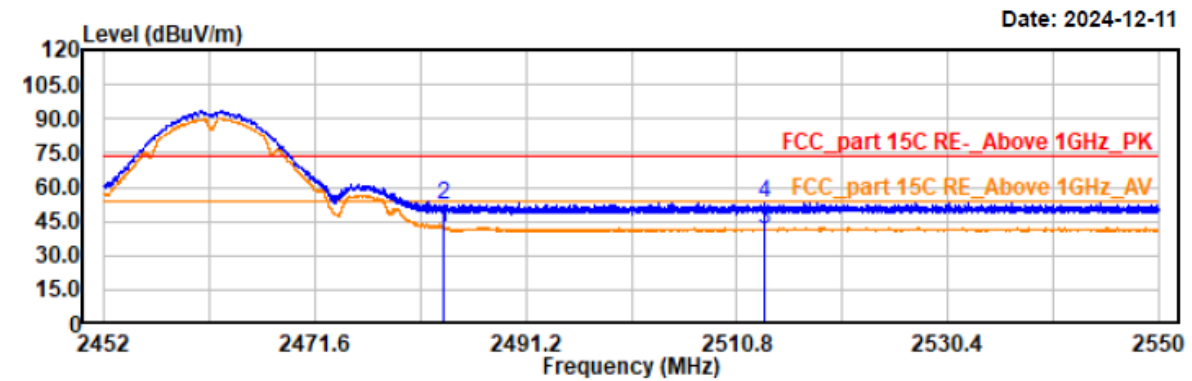
EUT Model: PH81

Test distance: 3m

Temp/Humi/ATM: 23.3℃/54%/100.3kPa

Tested by: Wlif Wu

Power Source: AC 120V/60Hz



Trace: 1

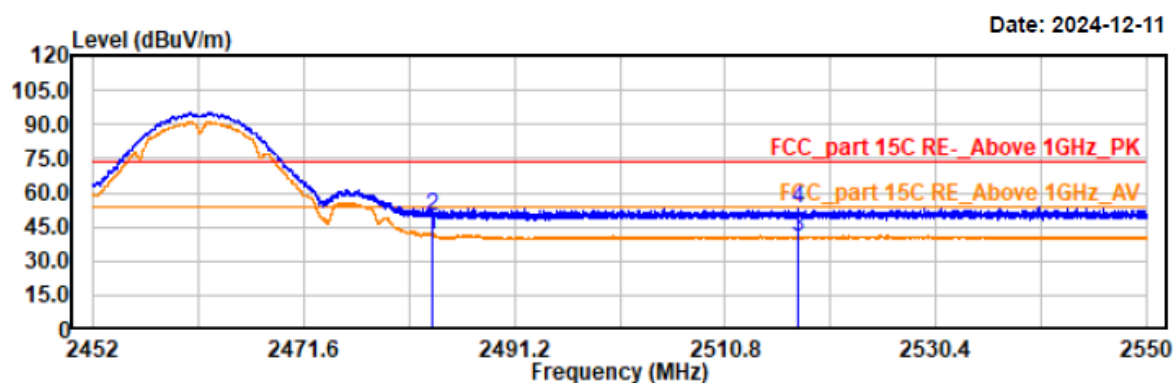
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	36.42	5.83	42.25	54.00	11.75	horizontal	Average
2483.50	46.54	5.83	52.37	74.00	21.63	horizontal	Peak
2513.42	35.34	5.94	41.28	54.00	12.72	horizontal	Average
2513.42	47.04	5.94	52.98	74.00	21.02	horizontal	Peak

Project No.: 2407T76694E-RF
Test Mode: 11b-2462
EUT Model: PH81
Test distance: 3m

Temp/Humi/ATM: 23.3°C/54%/100.3kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	35.89	5.83	41.72	54.00	12.28	vertical	Average
2483.50	44.05	5.83	49.88	74.00	24.12	vertical	Peak
2517.63	34.57	5.94	40.51	54.00	13.49	vertical	Average
2517.63	46.72	5.94	52.66	74.00	21.34	vertical	Peak

Project No.: 2407T76694E-RF

Test Mode: 11g-2412

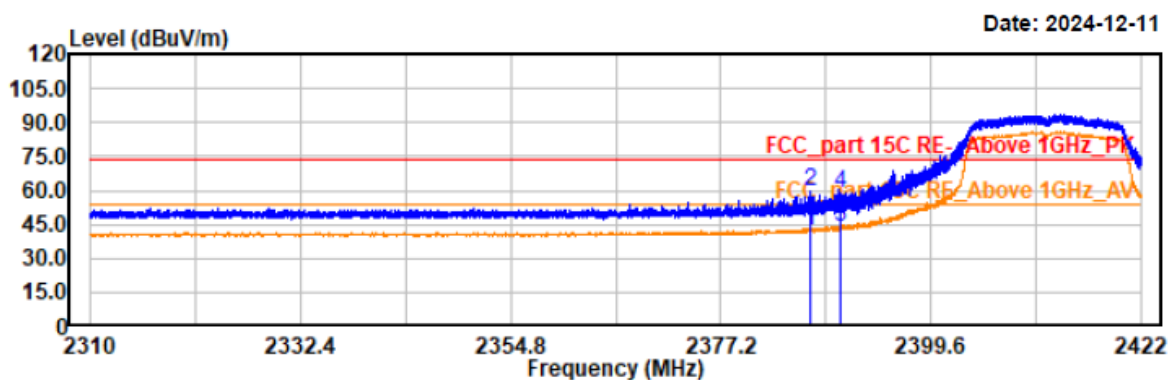
EUT Model: PH81

Test distance: 3m

Temp/Humi/ATM: 23.3°C/54%/100.3kPa

Tested by: Wlif Wu

Power Source: AC 120V/60Hz



Trace: 1

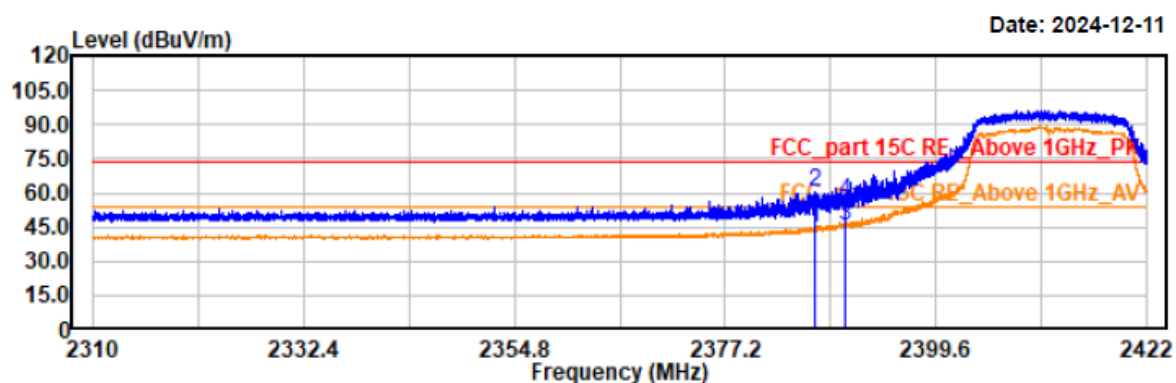
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2386.81	36.49	5.35	41.84	54.00	12.16	horizontal	Average
2386.81	53.83	5.35	59.18	74.00	14.82	horizontal	Peak
2390.00	38.30	5.37	43.67	54.00	10.33	horizontal	Average
2390.00	53.02	5.37	58.39	74.00	15.61	horizontal	Peak

Project No.: 2407T76694E-RF
Test Mode: 11g-2412
EUT Model: PH81
Test distance: 3m

Temp/Humi/ATM: 23.3°C/54%/100.3kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

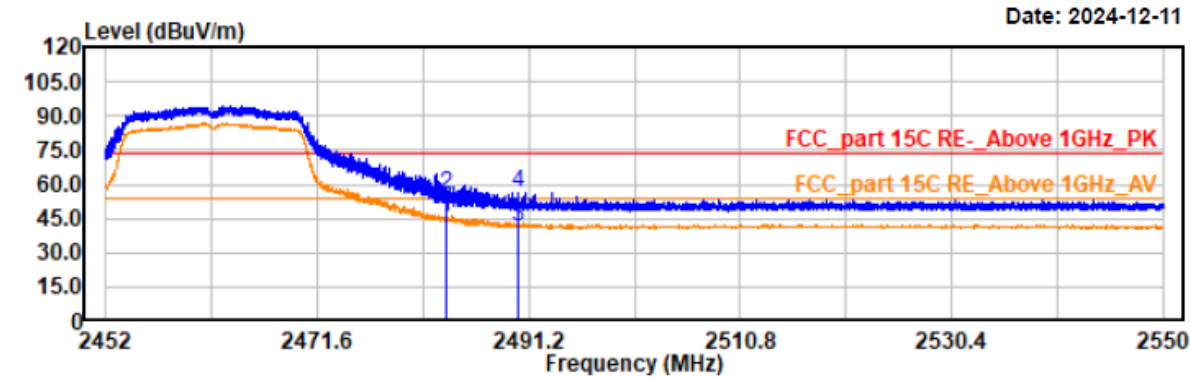
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2386.81	39.19	5.35	44.54	54.00	9.46	vertical	Average
2386.81	54.78	5.35	60.13	74.00	13.87	vertical	Peak
2390.00	40.46	5.37	45.83	54.00	8.17	vertical	Average
2390.00	50.56	5.37	55.93	74.00	18.07	vertical	Peak

Project No.: 2407T76694E-RF
Test Mode: 11g-2462
EUT Model: PH81
Test distance: 3m

Temp/Humi/ATM: 23.3℃/54%/100.3kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



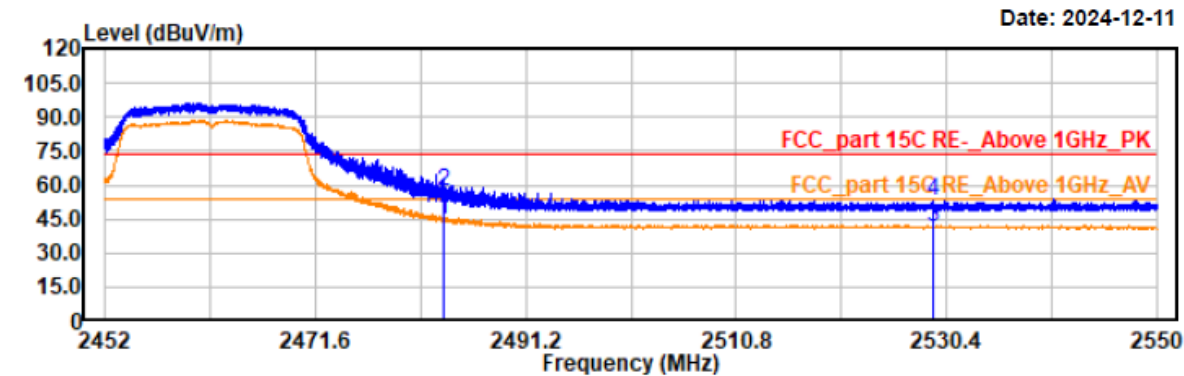
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	39.61	5.83	45.44	54.00	8.56	horizontal	Average
2483.50	49.58	5.83	55.41	74.00	18.59	horizontal	Peak
2490.29	35.85	5.87	41.72	54.00	12.28	horizontal	Average
2490.29	50.63	5.87	56.50	74.00	17.50	horizontal	Peak

Project No.: 2407T76694E-RF
Test Mode: 11g-2462
EUT Model: PH81
Test distance: 3m

Temp/Humi/ATM: 23.3℃/54%/100.3kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



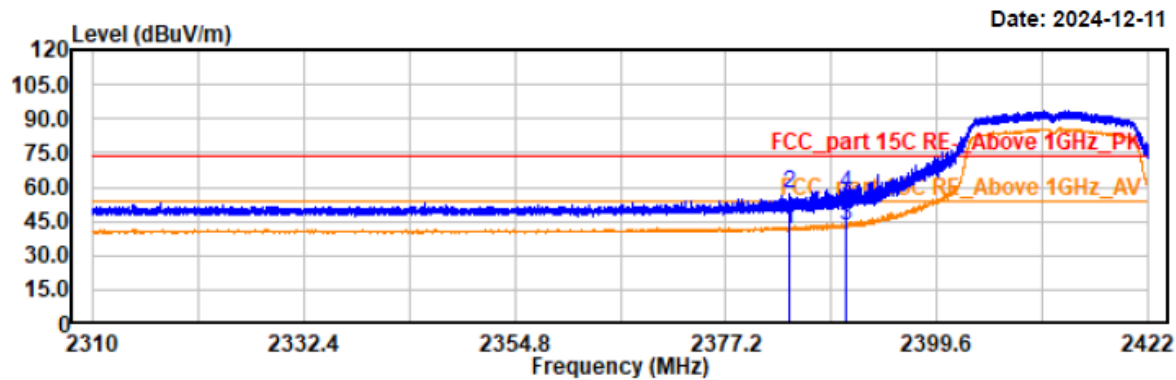
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	38.87	5.83	44.70	54.00	9.30	vertical	Average
2483.50	51.37	5.83	57.20	74.00	16.80	vertical	Peak
2529.11	35.61	5.95	41.56	54.00	12.44	vertical	Average
2529.11	47.10	5.95	53.05	74.00	20.95	vertical	Peak

Project No.: 2407T76694E-RF
Test Mode: 11n20-2412
EUT Model: PH81
Test distance: 3m

Temp/Humi/ATM: 23.3℃/54%/100.3kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2383.91	35.91	5.33	41.24	54.00	12.76	horizontal	Average
2383.91	51.75	5.33	57.08	74.00	16.92	horizontal	Peak
2390.00	38.05	5.37	43.42	54.00	10.58	horizontal	Average
2390.00	51.95	5.37	57.32	74.00	16.68	horizontal	Peak

Project No.: 2407T76694E-RF

Test Mode: 11n20-2412

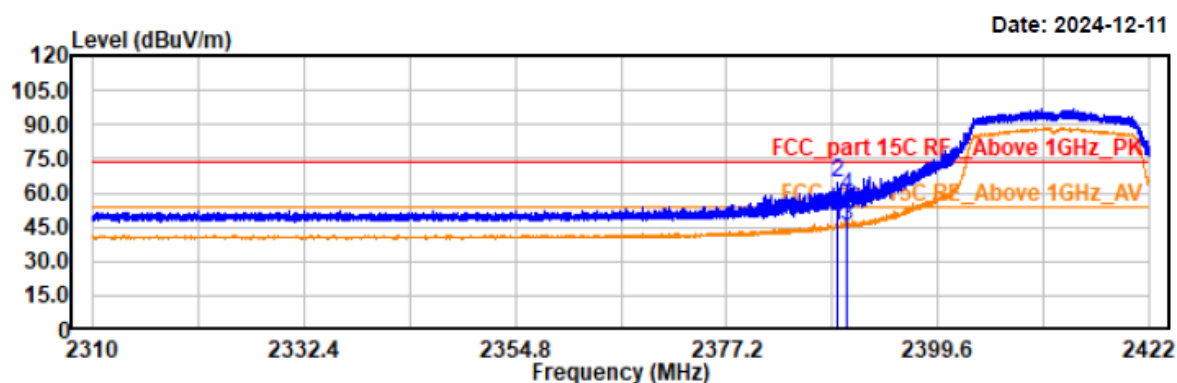
EUT Model: PH81

Test distance: 3m

Temp/Humi/ATM: 23.3°C/54%/100.3kPa

Tested by: Wlif Wu

Power Source: AC 120V/60Hz



Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2388.93	39.86	5.37	45.23	54.00	8.77	vertical	Average
2388.93	59.17	5.37	64.54	74.00	9.46	vertical	Peak
2390.00	40.10	5.37	45.47	54.00	8.53	vertical	Average
2390.00	53.51	5.37	58.88	74.00	15.12	vertical	Peak

Project No.: 2407T76694E-RF

Test Mode: 11n20-2462

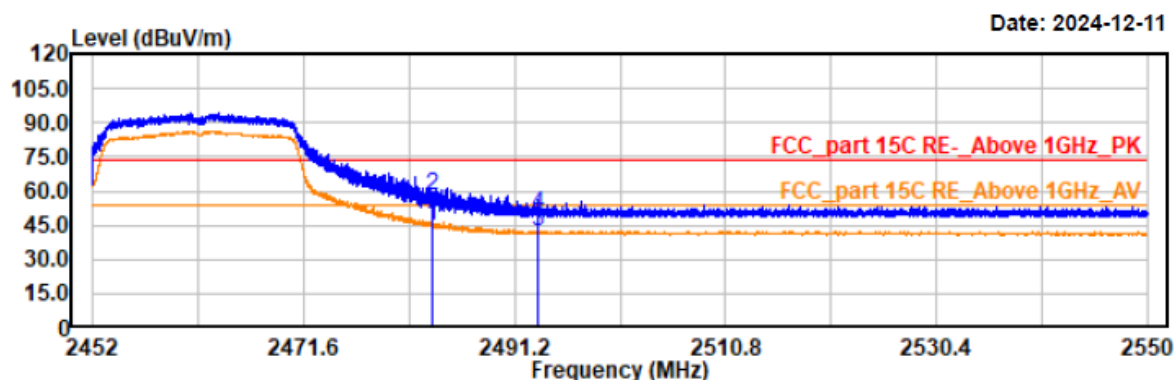
EUT Model: PH81

Test distance: 3m

Temp/Humi/ATM: 23.3°C/54%/100.3kPa

Tested by: Wlif Wu

Power Source: AC 120V/60Hz



Trace: 1

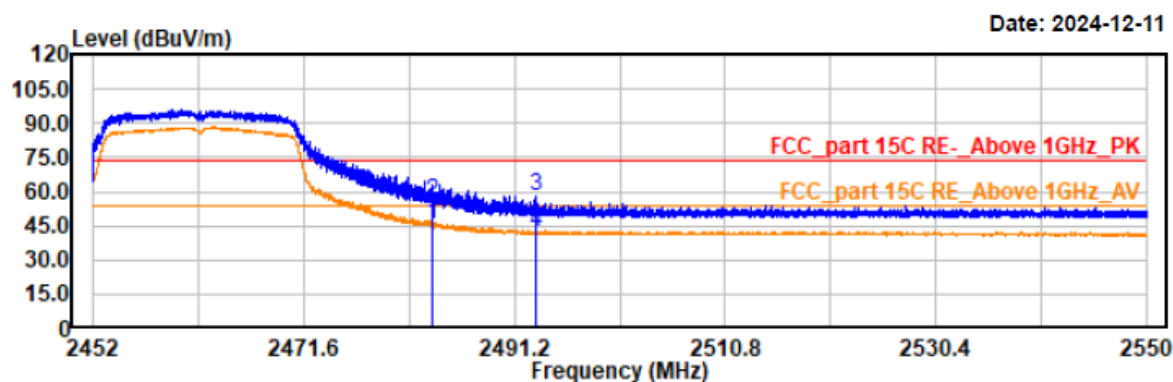
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	39.26	5.83	45.09	54.00	8.91	horizontal	Average
2483.50	51.79	5.83	57.62	74.00	16.38	horizontal	Peak
2493.37	36.28	5.89	42.17	54.00	11.83	horizontal	Average
2493.37	43.68	5.89	49.57	74.00	24.43	horizontal	Peak

Project No.: 2407T76694E-RF
Test Mode: 11n20-2462
EUT Model: PH81
Test distance: 3m

Temp/Humi/ATM: 23.3°C/54%/100.3kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

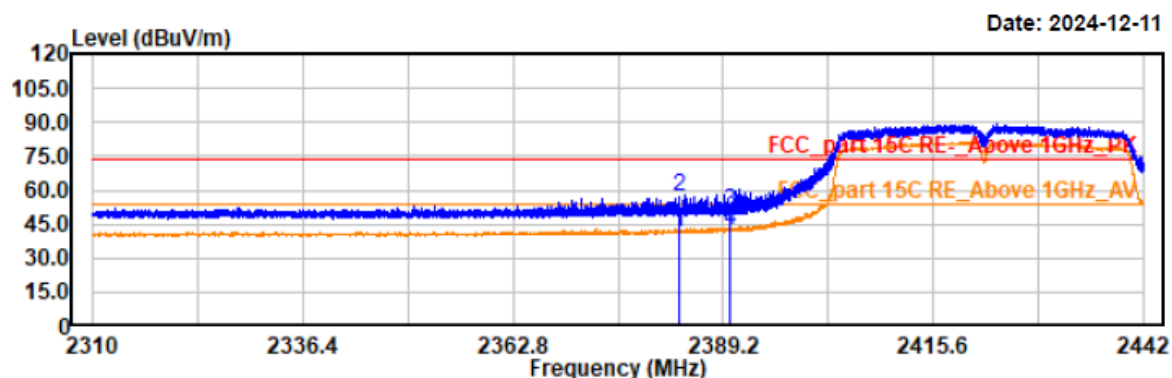
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	39.38	5.83	45.21	54.00	8.79	vertical	Average
2483.50	49.62	5.83	55.45	74.00	18.55	vertical	Peak
2493.17	51.64	5.89	57.53	74.00	16.47	vertical	Peak
2493.17	36.35	5.89	42.24	54.00	11.76	vertical	Average

Project No.: 2407T76694E-RF
Test Mode: 11n40-2422
EUT Model: PH81
Test distance: 3m

Temp/Humi/ATM: 23.3°C/54%/100.3kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

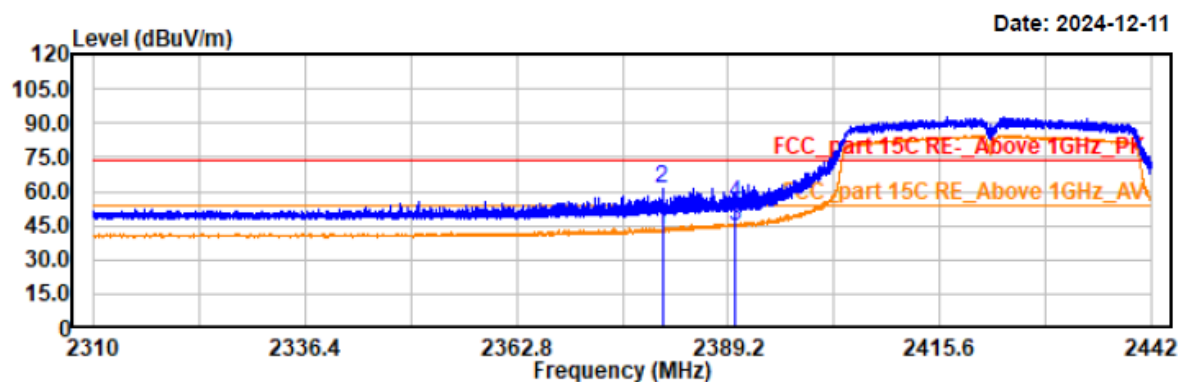
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2383.58	36.21	5.32	41.53	54.00	12.47	horizontal	Average
2383.58	52.13	5.32	57.45	74.00	16.55	horizontal	Peak
2390.00	45.45	5.37	50.82	74.00	23.18	horizontal	Peak
2390.00	36.45	5.37	41.82	54.00	12.18	horizontal	Average

Project No.: 2407T76694E-RF
Test Mode: 11n40-2422
EUT Model: PH81
Test distance: 3m

Temp/Humi/ATM: 23.3°C/54%/100.3kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

**Trace: 1**

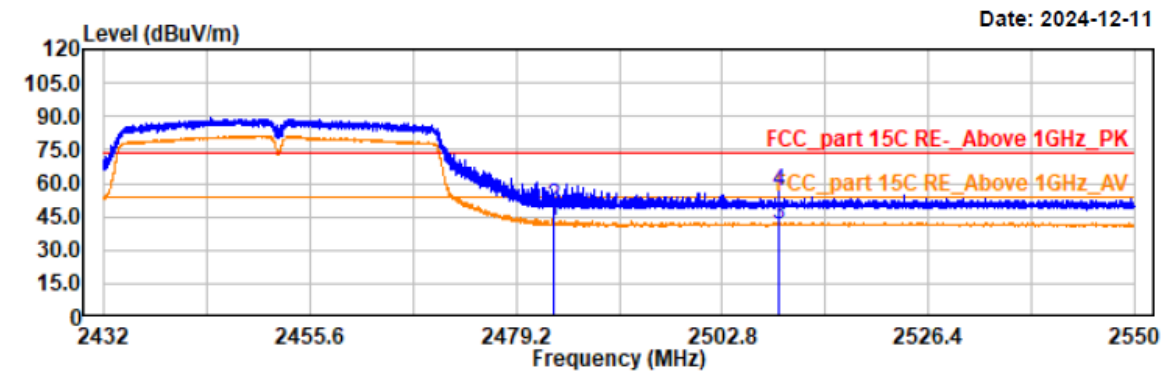
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2380.96	37.86	5.31	43.17	54.00	10.83	vertical	Average
2380.96	55.83	5.31	61.14	74.00	12.86	vertical	Peak
2390.00	39.50	5.37	44.87	54.00	9.13	vertical	Average
2390.00	49.10	5.37	54.47	74.00	19.53	vertical	Peak

Project No.: 2407T76694E-RF
Test Mode: 11n40-2452
EUT Model: PH81
Test distance: 3m

Temp/Humi/ATM: 23.3°C/54%/100.3kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



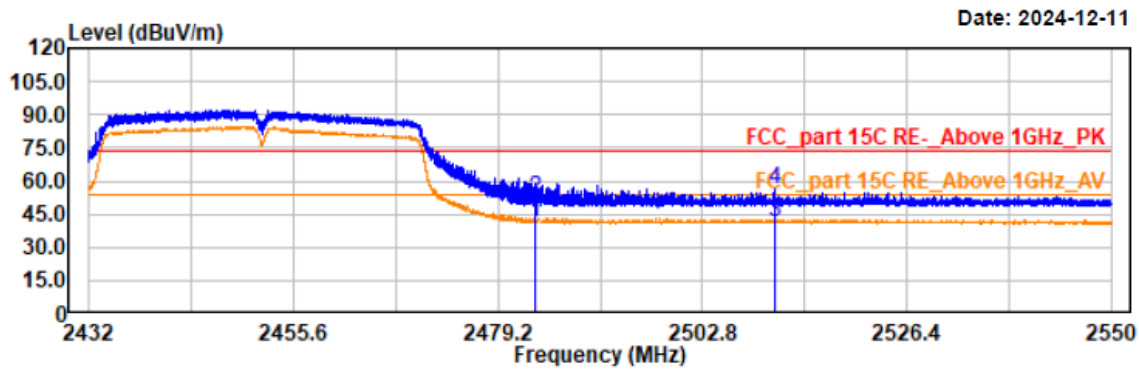
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	37.27	5.83	43.10	54.00	10.90	horizontal	Average
2483.50	43.81	5.83	49.64	74.00	24.36	horizontal	Peak
2509.33	35.43	5.93	41.36	54.00	12.64	horizontal	Average
2509.33	50.74	5.93	56.67	74.00	17.33	horizontal	Peak

Project No.: 2407T76694E-RF
Test Mode: 11n40-2452
EUT Model: PH81
Test distance: 3m

Temp/Humi/ATM: 23.3°C/54%/100.3kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



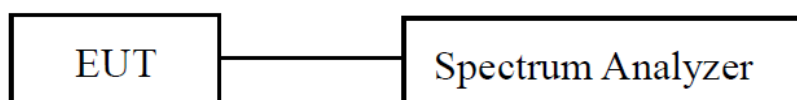
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	35.88	5.83	41.71	74.00	32.29	vertical	Average
2483.50	46.66	5.83	52.49	74.00	21.51	vertical	Peak
2511.15	35.59	5.93	41.52	74.00	32.48	vertical	Average
2511.15	49.99	5.93	55.92	74.00	18.08	vertical	Peak

FCC §15.247(a) (2) – 6 dB EMISSION BANDWIDTH**Applicable Standard**

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

EUT Setup**Test Procedure**

According to ANSI C63.10-2013 Section 11.8

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

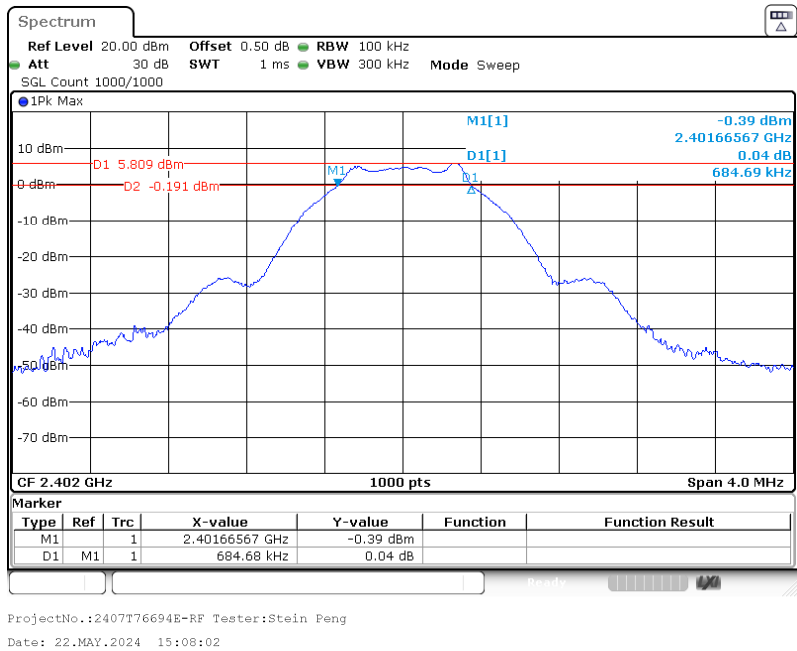
Test Data

For BLE:

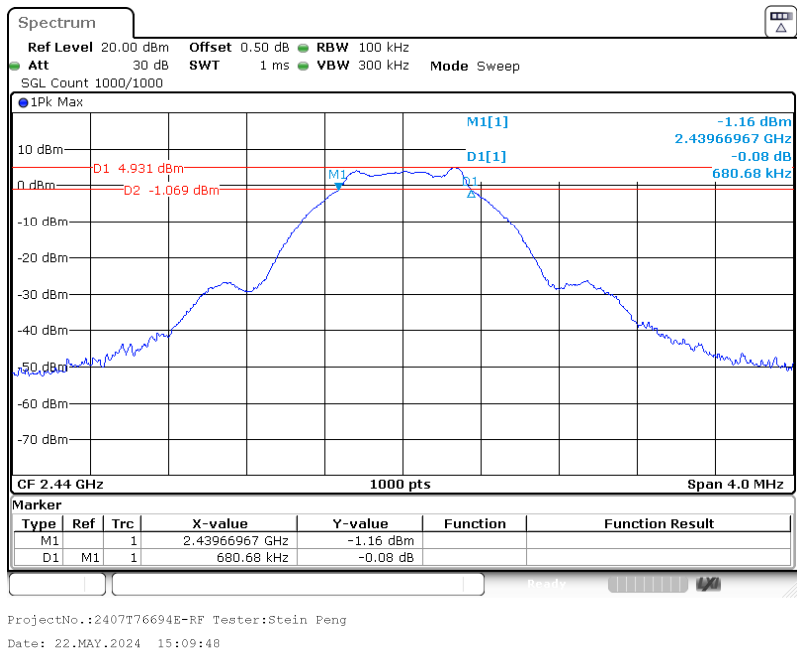
Test Mode:	Transmitting	Test Engineer:	Stein Peng
Test Date:	2024-05-22	Test Voltage:	AC 120V/60Hz
Test Result:	Compliance	Environment:	Temp.: 24.2°C Humi.: 56% Atm :101.1kPa
Test Modes	Test Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)
BLE 1Mbps	2402	0.685	≥ 0.5
	2440	0.681	≥ 0.5
	2480	0.681	≥ 0.5
BLE 2Mbps	2402	1.261	≥ 0.5
	2440	1.269	≥ 0.5
	2480	1.265	≥ 0.5

Please refer to below plots:

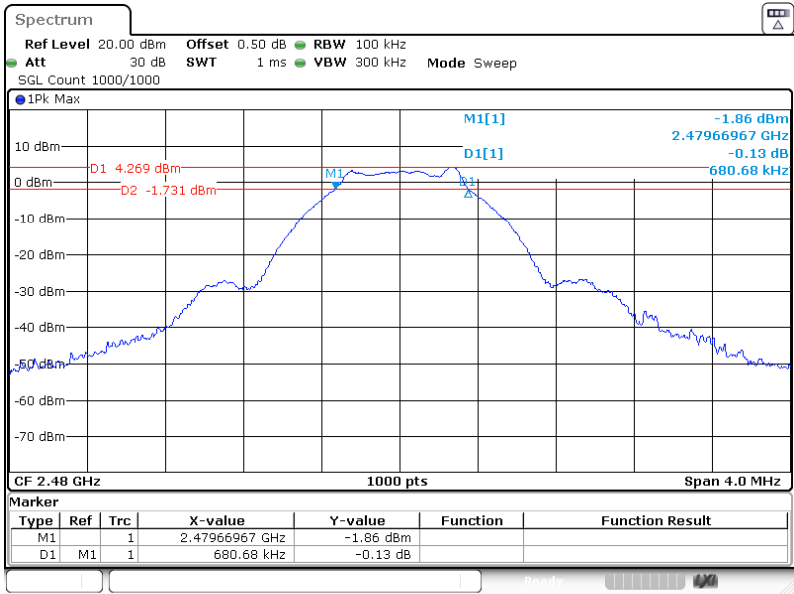
BLE 1Mbps Low Channel



BLE 1Mbps Middle Channel

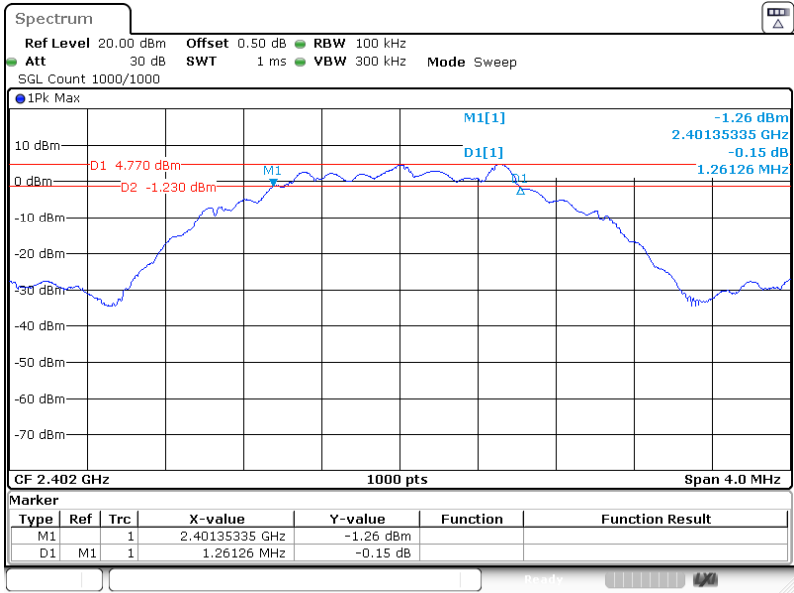


BLE 1Mbps High Channel



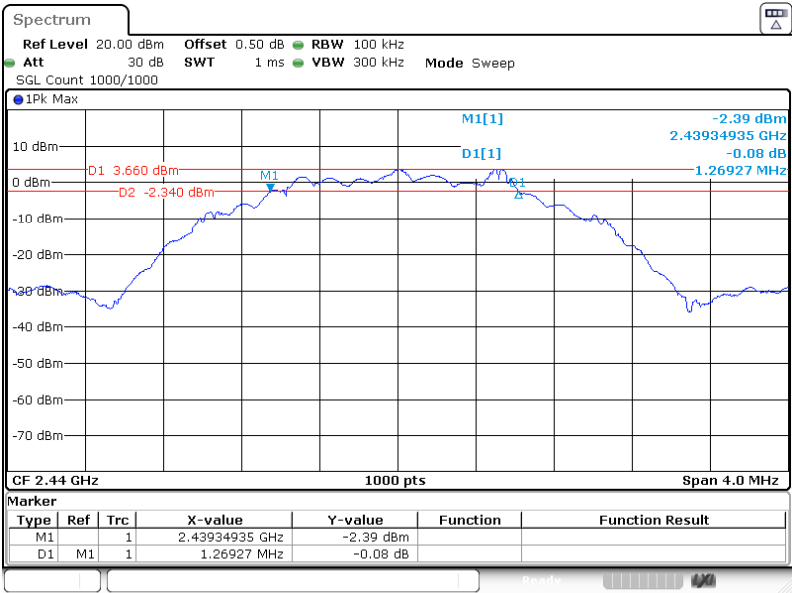
ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 22.MAY.2024 15:11:38

BLE 2Mbps Low Channel



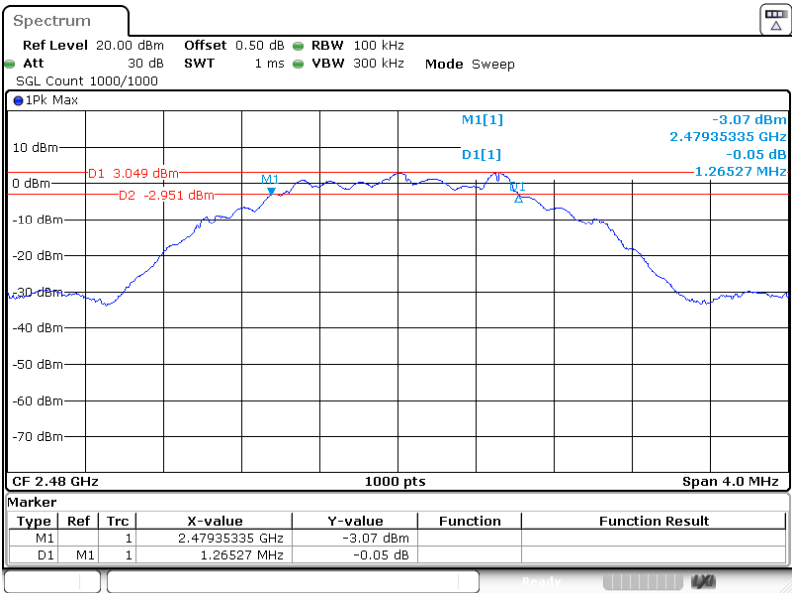
ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 22.MAY.2024 15:13:26

BLE 2Mbps Middle Channel



ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 22.MAY.2024 15:15:24

BLE 2Mbps High Channel



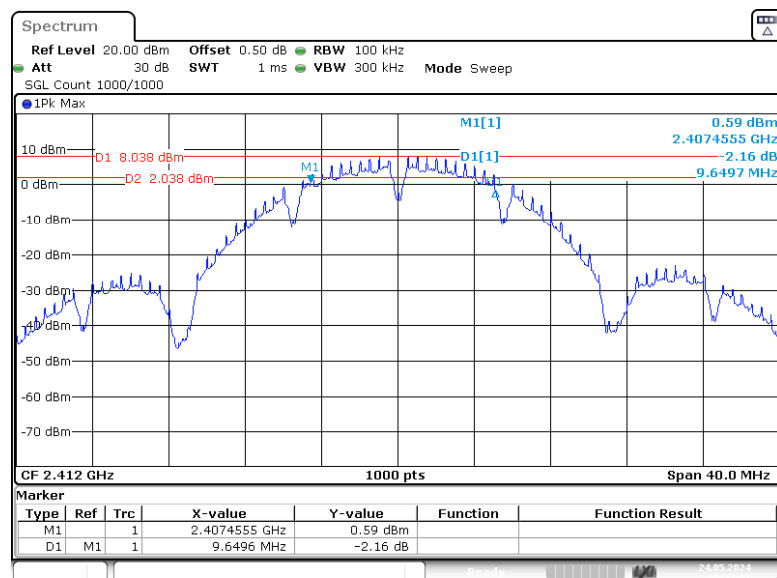
ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 22.MAY.2024 15:17:23

For 2.4G WIFI:

Test Mode:	Transmitting	Test Engineer:	Stein Peng
Test Date:	2024-05-24	Test Voltage:	AC120V/60Hz
Test Result:	Compliance	Environment:	Temp.:22.5°C Humi.: 60% Atm :100.4kPa
Test Modes	Test Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)
802.11b	2412	9.65	0.5
	2437	10.13	0.5
	2462	9.65	0.5
802.11g	2412	16.416	0.5
	2437	15.375	0.5
	2462	14.855	0.5
802.11n ht20	2412	15.175	0.5
	2437	16.336	0.5
	2462	15.135	0.5
802.11n ht40	2422	37.157	0.5
	2437	37.798	0.5
	2452	37.558	0.5

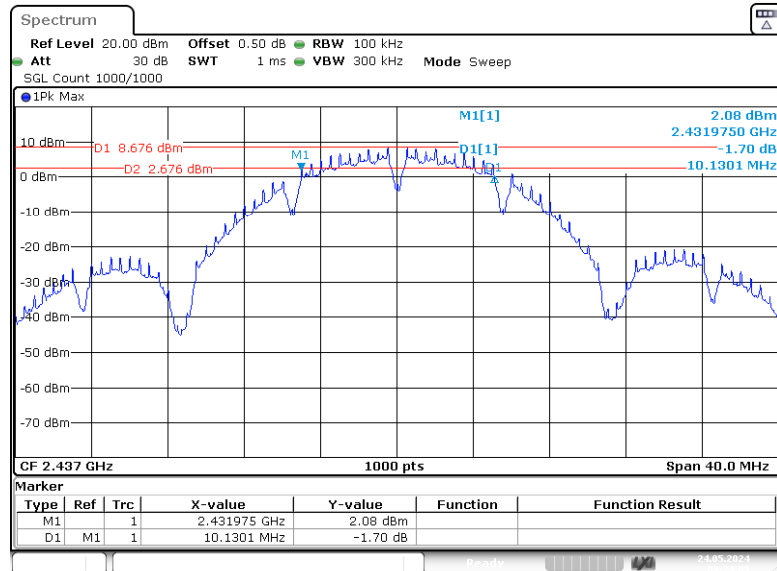
Please refer to below plots:

802.11b Mode Low Channel



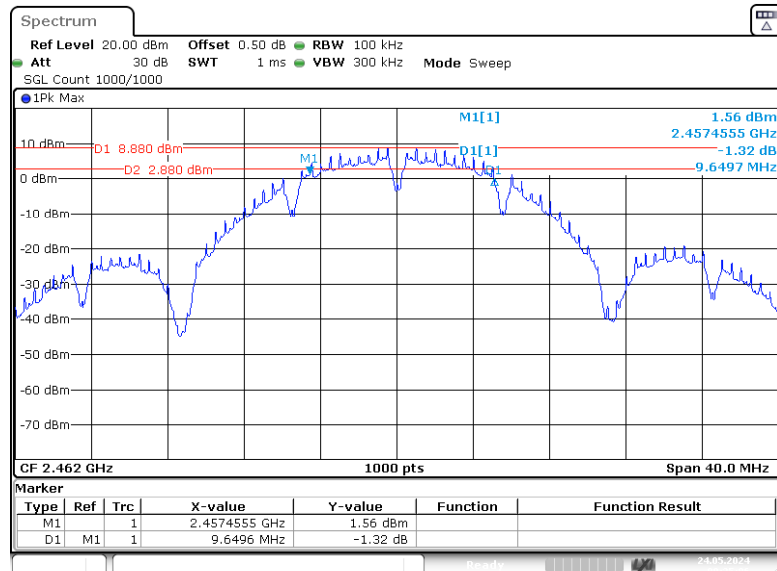
ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 09:23:07

802.11b Mode Middle Channel



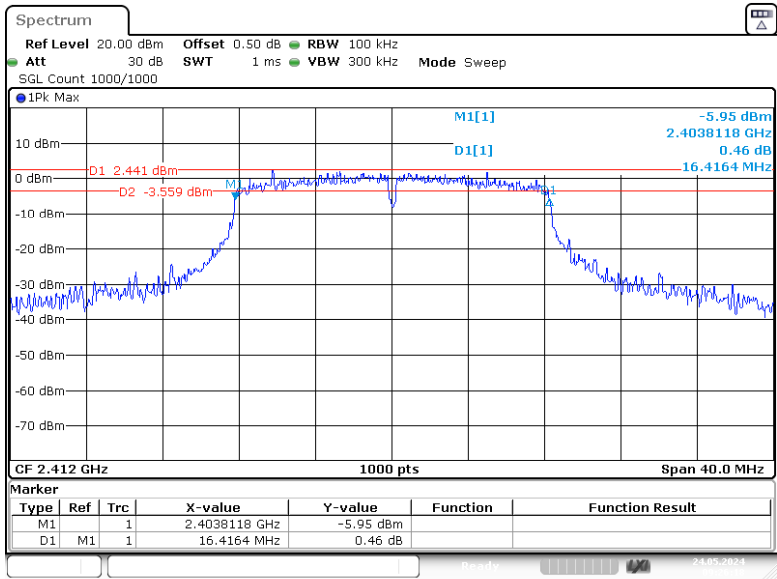
ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 09:24:08

802.11b Mode High Channel

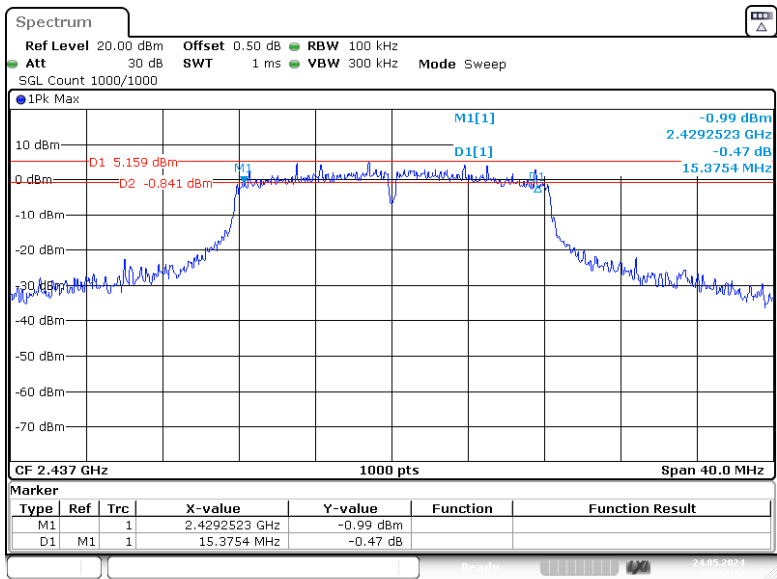


ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 09:25:07

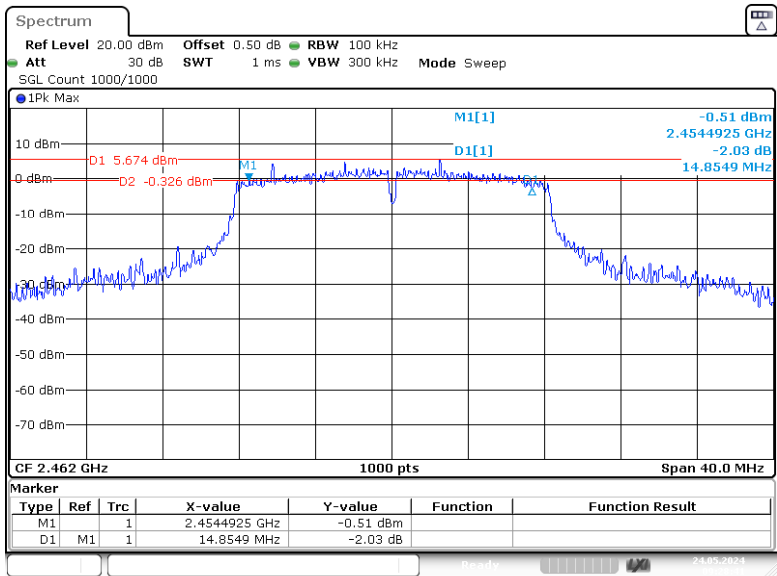
802.11g Mode Low Channel



802.11g Mode Middle Channel

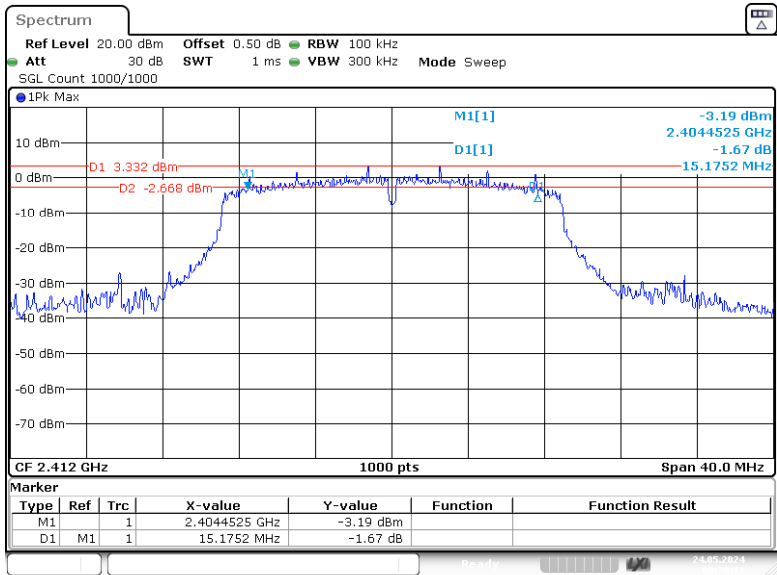


802.11g Mode High Channel



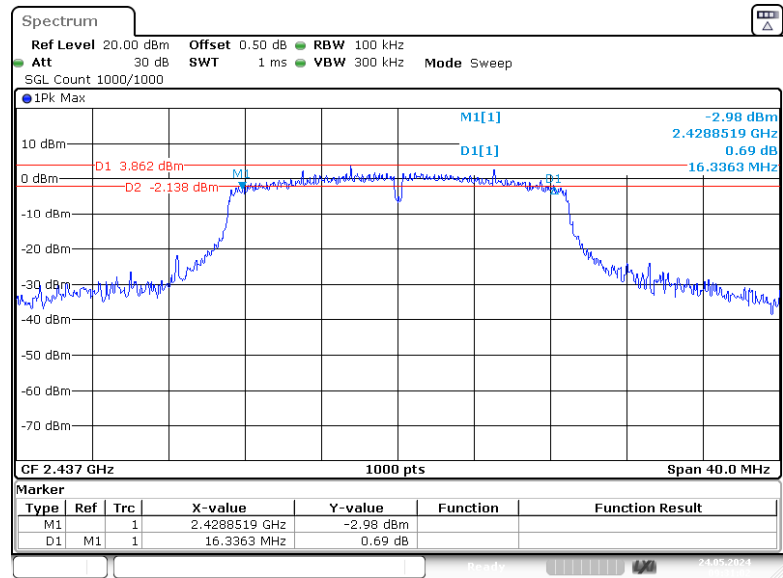
ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 09:28:40

802.11n-ht20 Mode Low Channel



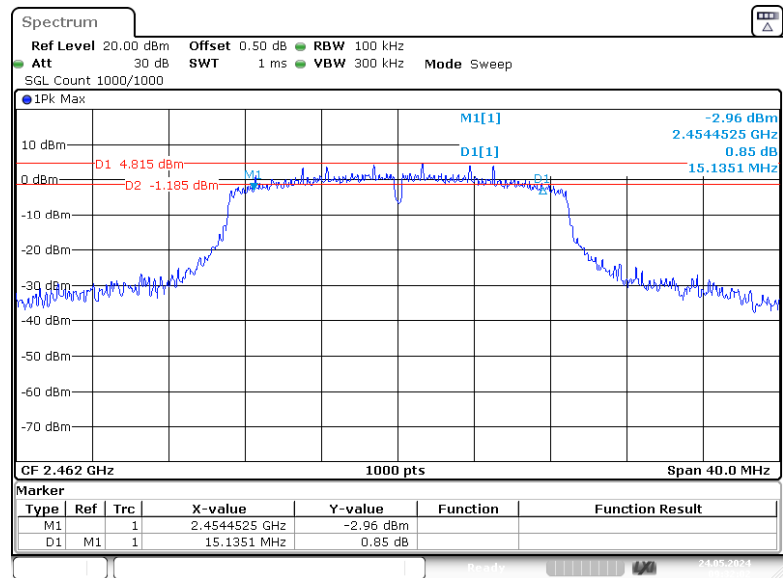
ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 09:30:11

802.11n-ht20 Mode Middle Channel



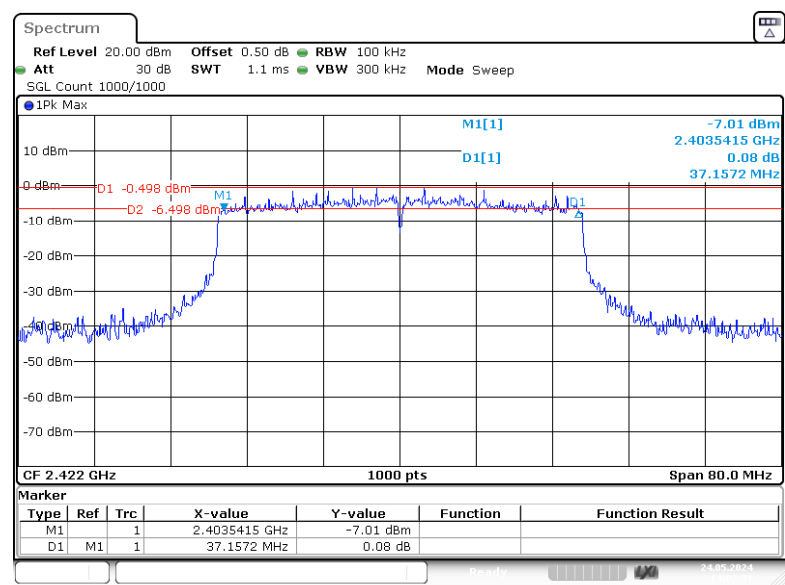
ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 09:31:02

802.11n-ht20 Mode High Channel

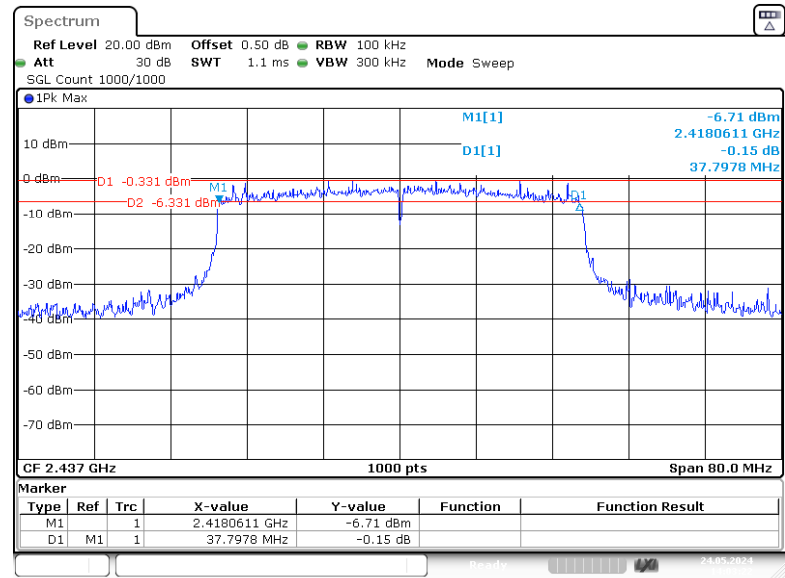


ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 09:32:02

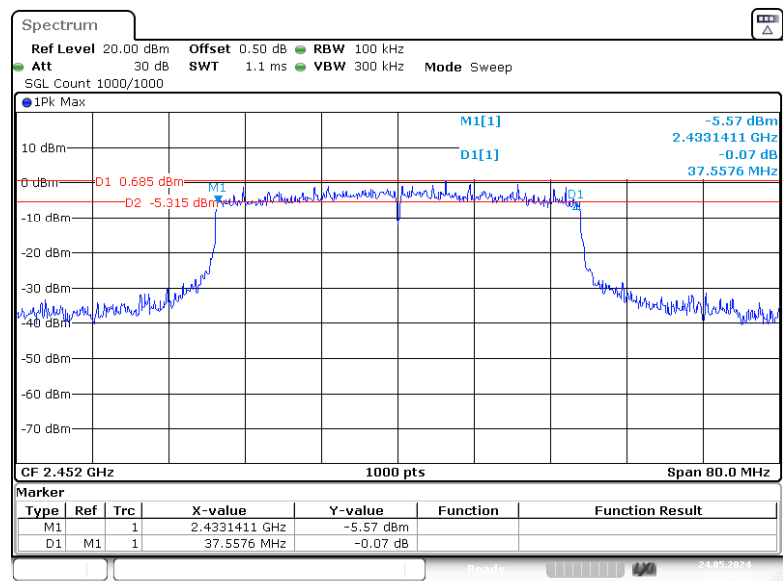
802.11n-ht40 Mode Low Channel



802.11n-ht40 Mode Middle Channel



802.11n-ht40 Mode High Channel



ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 14:04:00

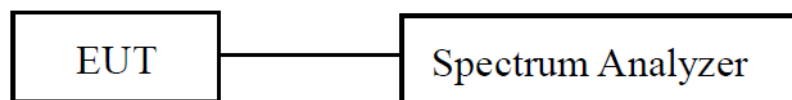
FCC §15.247(b) (3) - MAXIMUM CONDUCTED OUTPUT POWER

Applicable Standard

According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

EUT Setup

For BLE:



For 2.4G WIFI:



Test Procedure

For BLE

According to ANSI C63.10-2013 11.9.1.1

- Set the RBW $\geq$ DTS bandwidth.
- Set VBW $\geq [3 \times \text{RBW}]$.
- Set span $\geq [3 \times \text{RBW}]$.
- Sweep time = auto couple.
- Detector = peak.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use peak marker function to determine the peak amplitude level.

For 2.4G WIFI

According to ANSI C63.10-2013 11.9.1.2 Peak power meter method

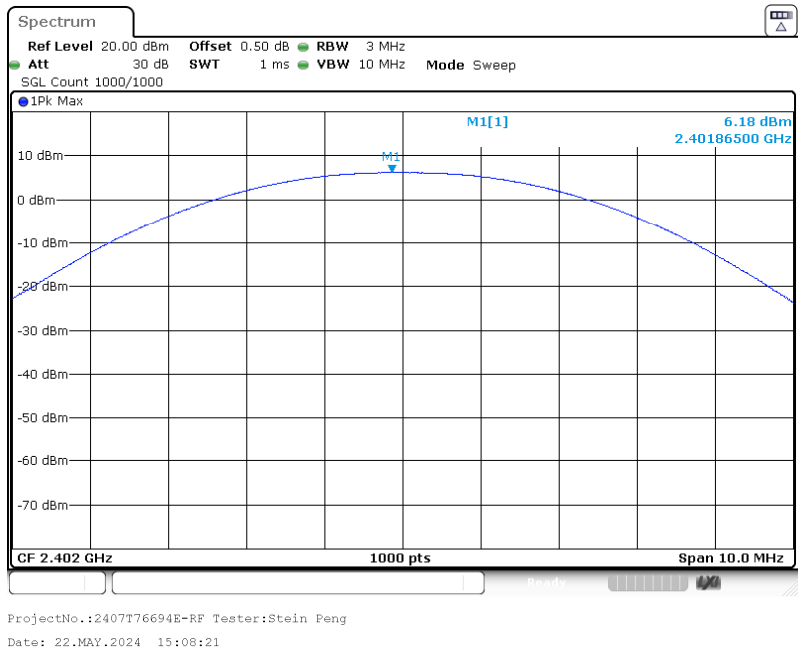
The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast responding diode detector.

Test Data**For BLE:**

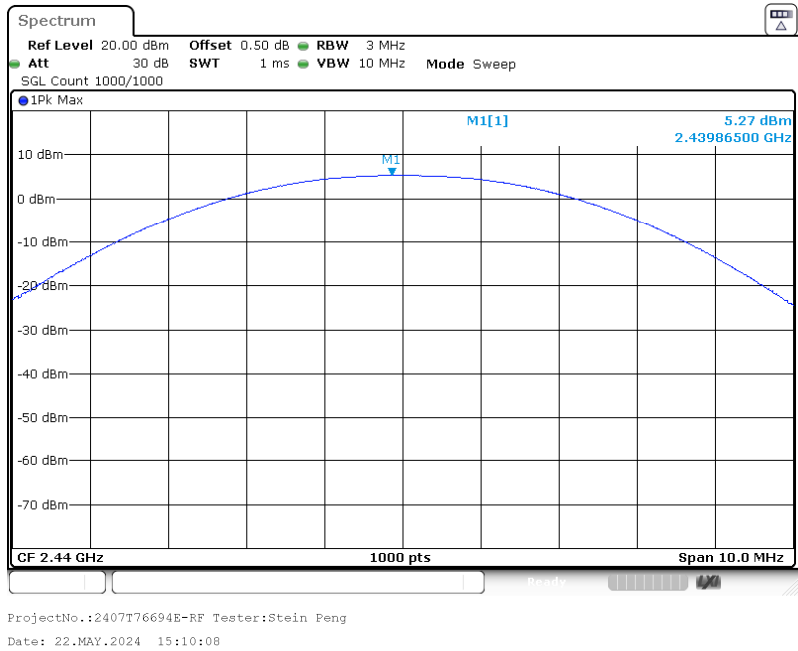
Test Mode:	Transmitting	Test Engineer:	Stein Peng
Test Date:	2024-05-22	Test Voltage:	AC120V/60Hz
Test Result:	Compliance	Environment:	Temp.: 24.2°C Humi.: 56% Atm.:101.1kPa
Test Modes	Test Frequency (MHz)	Maximum Conducted Peak Output Power(dBm)	Limit (dBm)
BLE 1Mbps	2402	6.18	≤30
	2440	5.27	≤30
	2480	4.6	≤30
BLE 2Mbps	2402	6.09	≤30
	2440	5.16	≤30
	2480	4.48	≤30

Please refer to below plots:

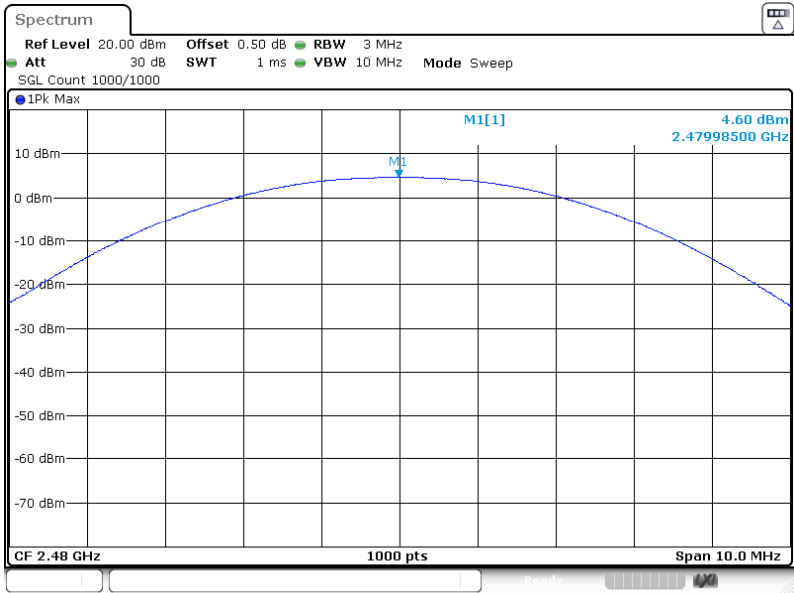
BLE 1Mbps Low Channel



BLE 1Mbps Middle Channel

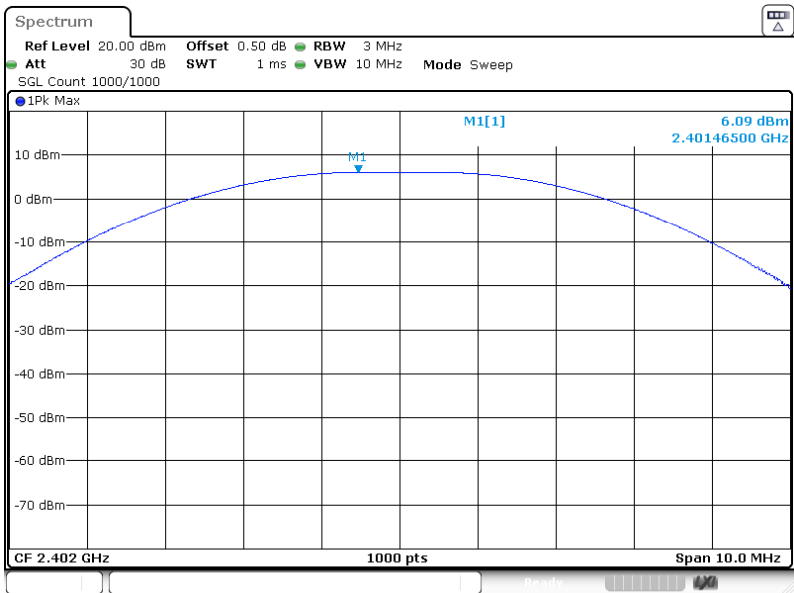


BLE 1Mbps High Channel



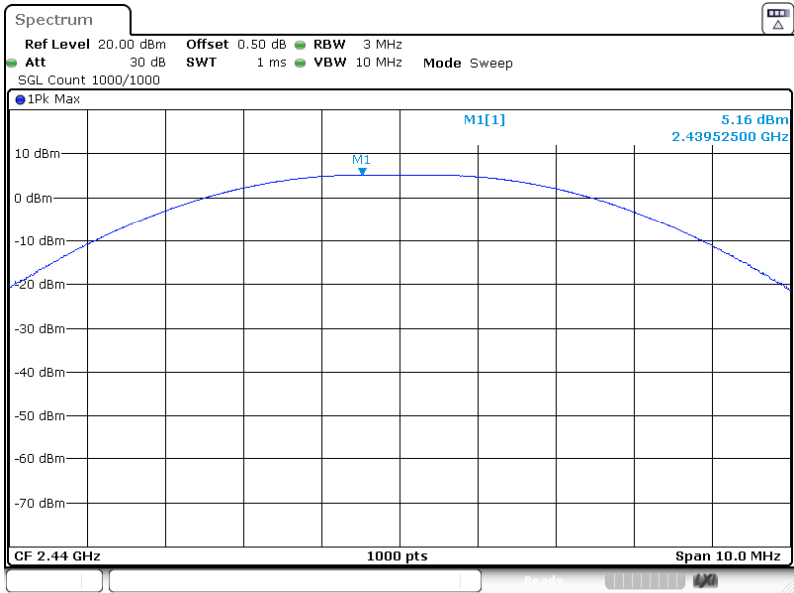
ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 22.MAY.2024 15:11:57

BLE 2Mbps Low Channel



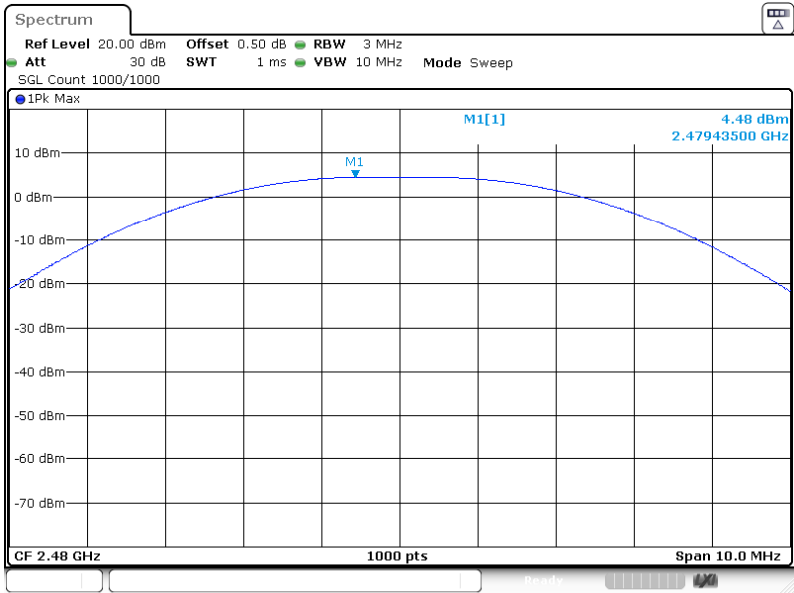
ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 22.MAY.2024 15:13:45

BLE 2Mbps Middle Channel



ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 22.MAY.2024 15:15:43

BLE 2Mbps High Channel



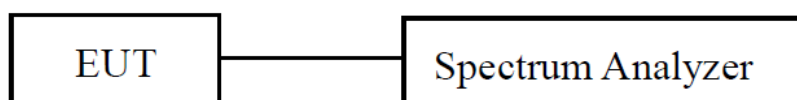
ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 22.MAY.2024 15:17:42

For 2.4G WIFI:

Test Mode:		Stein Peng	
Test Date:		AC120V/60Hz	
Test Result:		Temp.: 22.5°C Humi.: 60% Atm.:100.4kPa	
Test Modes	Test Frequency (MHz)	Maximum Conducted Peak Output Power (dBm)	Limit (dBm)
802.11b	2412	17.5	30
	2437	18.07	30
	2462	18.29	30
802.11g	2412	21	30
	2437	21.4	30
	2462	21.76	30
802.11n ht20	2412	20.98	30
	2437	21.43	30
	2462	21.77	30
802.11n ht40	2422	21.2	30
	2437	21.5	30
	2452	21.68	30

FCC §15.247(d) – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE**Applicable Standard**

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

EUT Setup**Test Procedure**

According to ANSI C63.10-2013 Section 11.11

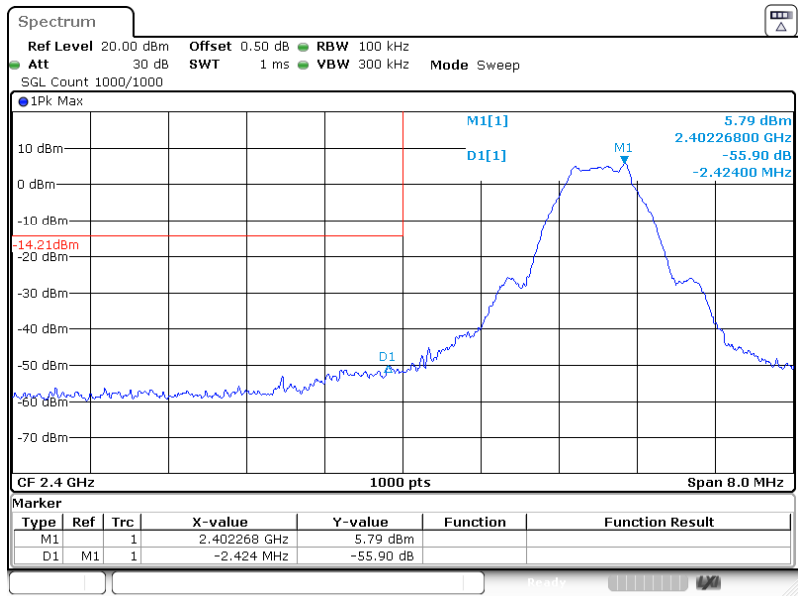
- Set the center frequency and span to encompass frequency range to be measured.
 - Set the RBW = 100 kHz.
 - Set the VBW $\geq [3 \times \text{RBW}]$.
 - Detector = peak.
 - Sweep time = auto couple.
 - Trace mode = max hold.
 - Allow trace to fully stabilize.
 - Use the peak marker function to determine the maximum amplitude level.
- Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

Test Data**For BLE:**

Test Mode:	Transmitting	Test Engineer:	Stein Peng
Test Date:	2024-05-22	Test Voltage:	AC120V/60Hz
Test Result:	Compliance	Environment:	Temp.: 24.2°C Humi.: 56% Atm: 101.1kPa

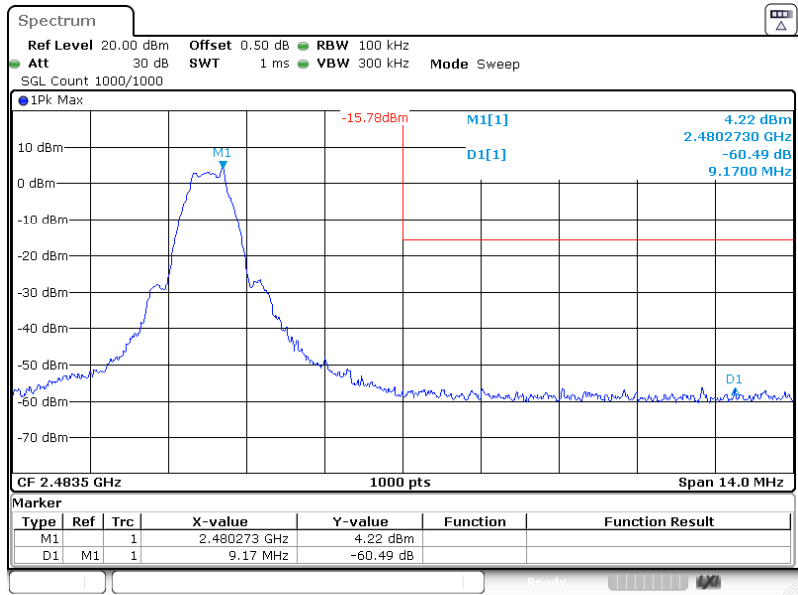
Please refer to below plots:

BLE 1Mbps Low Channel



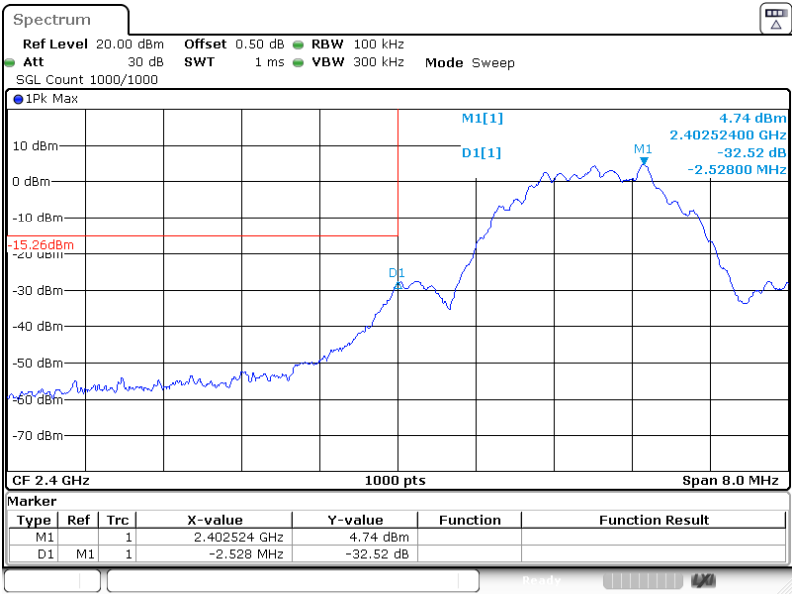
ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 22.MAY.2024 15:19:44

BLE 1Mbps High Channel



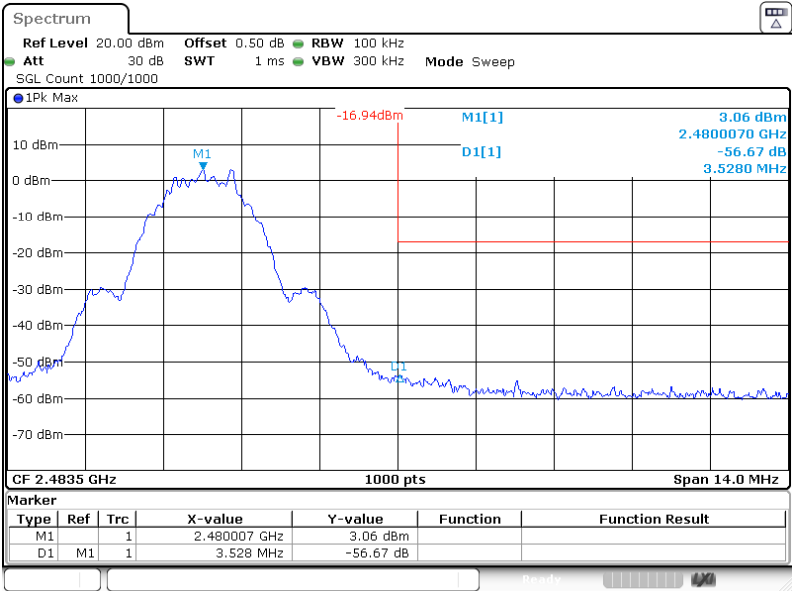
ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 22.MAY.2024 15:20:21

BLE 2Mbps Low Channel



ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 22.MAY.2024 15:21:00

BLE 2Mbps High Channel



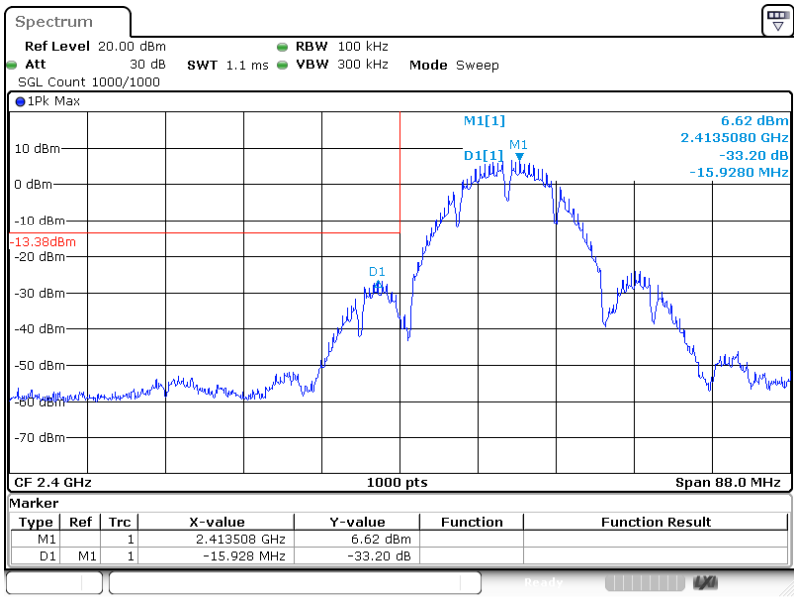
ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 22.MAY.2024 15:21:39

For 2.4G WIFI:

Test Mode:	Transmitting	Test Engineer:	Stein Peng
Test Date:	2024-05-24	Test Voltage:	AC 120V/60Hz
Test Result:	Compliance	Environment:	Temp.: 22.5°C Humi.:60% Atm:100.4kPa

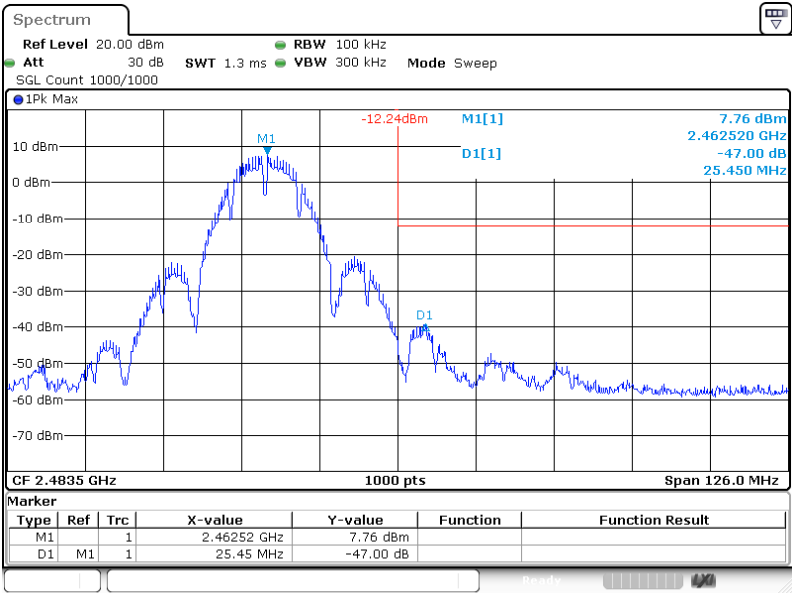
Please refer to below plots:

802.11b Mode Left Side

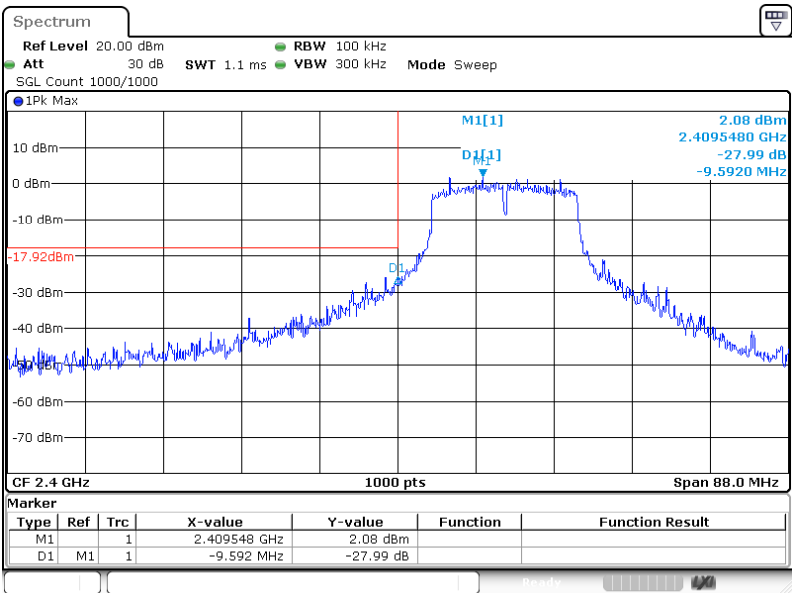


ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 13:23:56

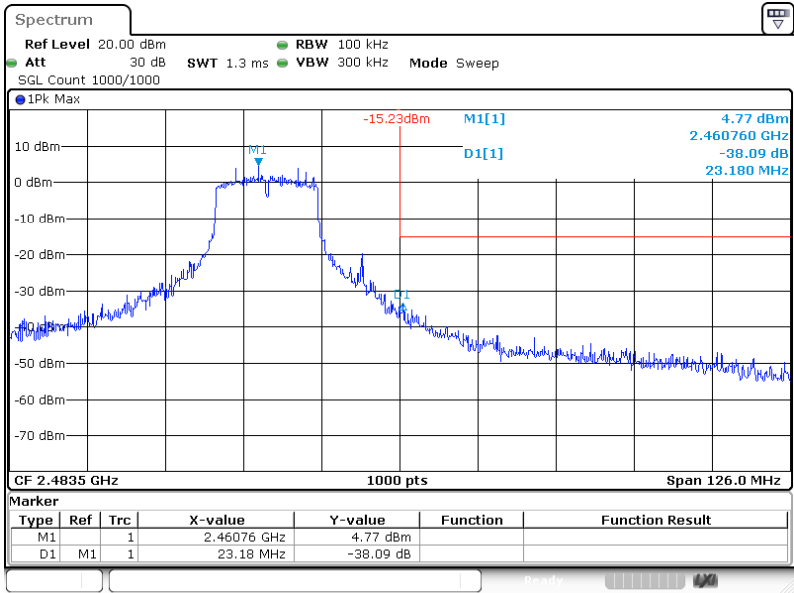
802.11b Mode Right Side



802.11g Mode Left Side

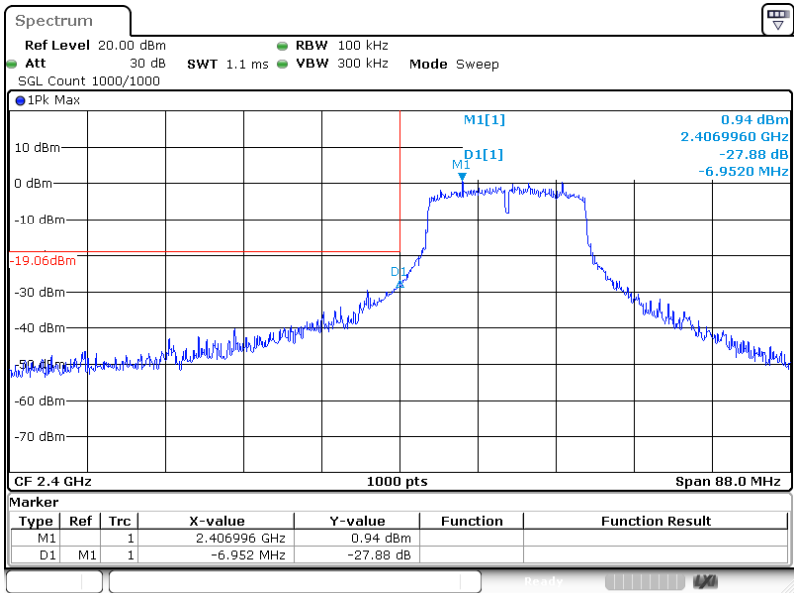


802.11g Mode Right Side



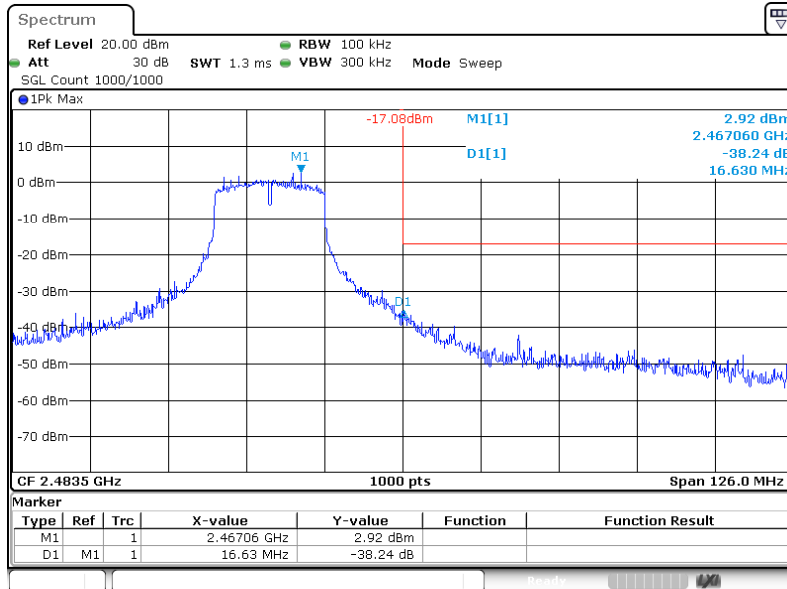
ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 13:26:17

802.11n-ht20 Mode Left Side



ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 13:27:02

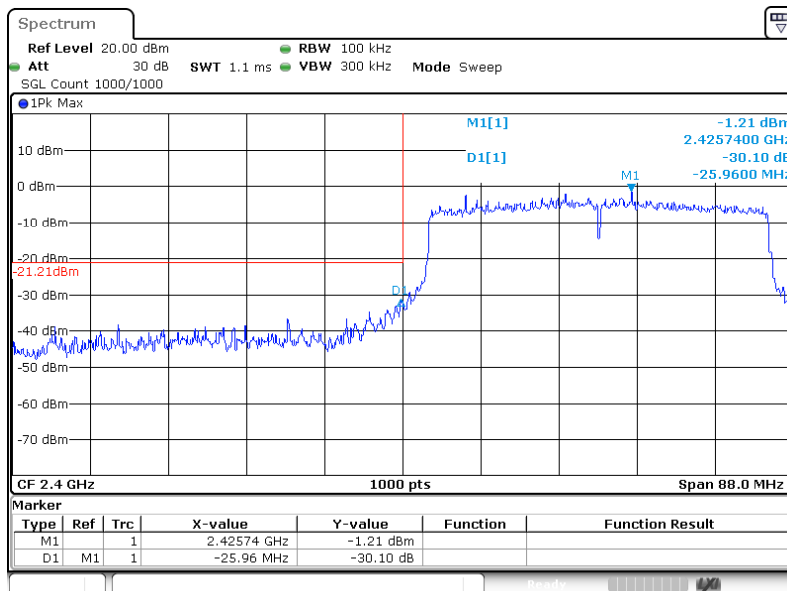
802.11n-ht20 Mode Right Side



ProjectNo.:2407T76694E-RF Tester:Stein Peng

Date: 24.MAY.2024 13:27:37

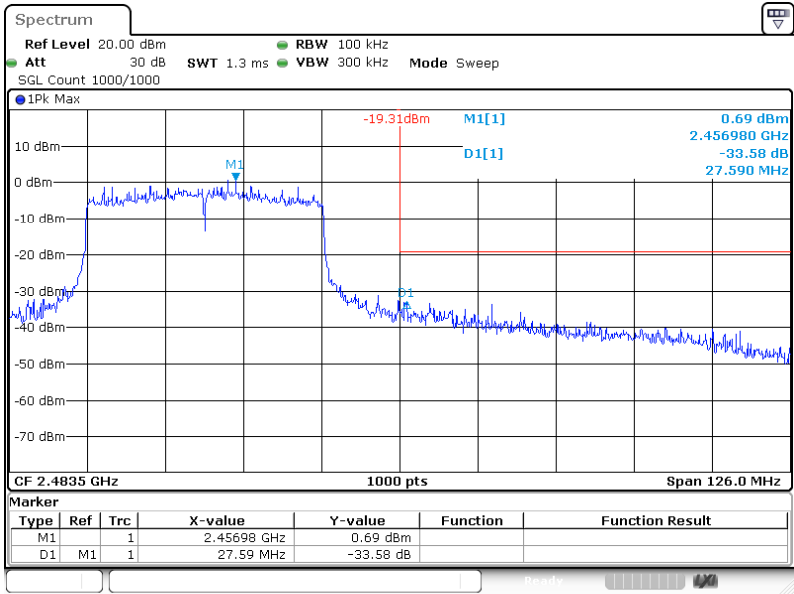
802.11n-ht40 Mode Left Side



ProjectNo.:2407T76694E-RF Tester:Stein Peng

Date: 24.MAY.2024 13:28:15

802.11n-ht40 Mode Right Side



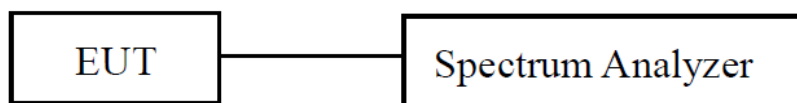
ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 13:29:01

FCC §15.247(e) - POWER SPECTRAL DENSITY

Applicable Standard

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

EUT Setup



Test Procedure

According to ANSI C63.10-2013 Section 11.10.2

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set the RBW to $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set the VBW $\geq [3 \times \text{RBW}]$.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

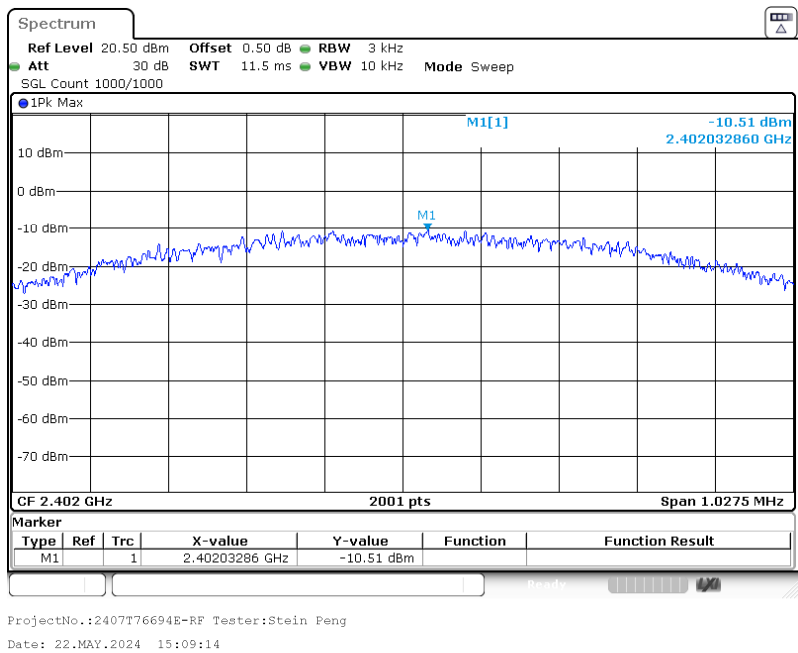
Test Data

For BLE:

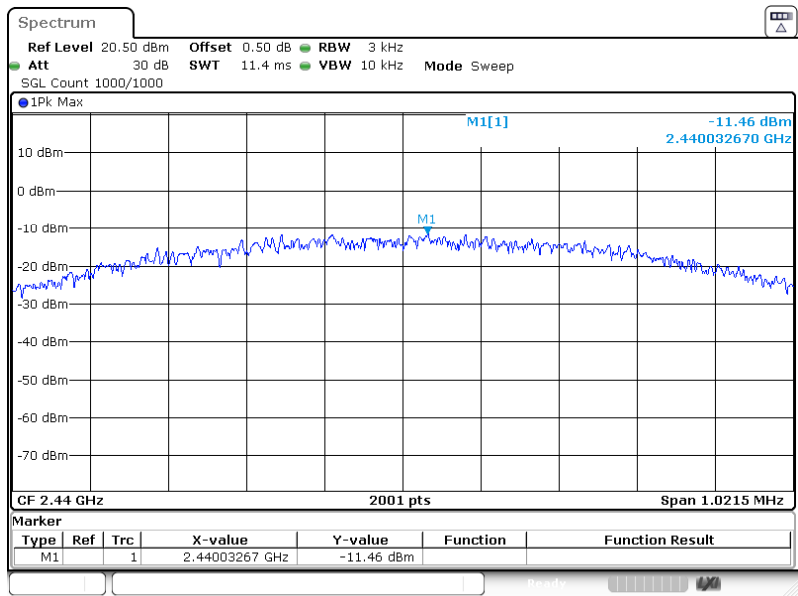
Test Mode:	Transmitting	Test Engineer:	Stein Peng
Test Date:	2024-05-22	Test Voltage:	AC120V/60Hz
Test Result:	Compliance	Environment:	Temp.: 24.2°C Humi.: 56% Atm: 101.1kPa
Test Modes	Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)
BLE 1Mbps	2402	-10.51	≤8.00
	2440	-11.46	≤8.00
	2480	-12.15	≤8.00
BLE 2Mbps	2402	-13.3	≤8.00
	2440	-14.22	≤8.00
	2480	-14.89	≤8.00

Please refer to below plots:

BLE 1Mbps Low Channel

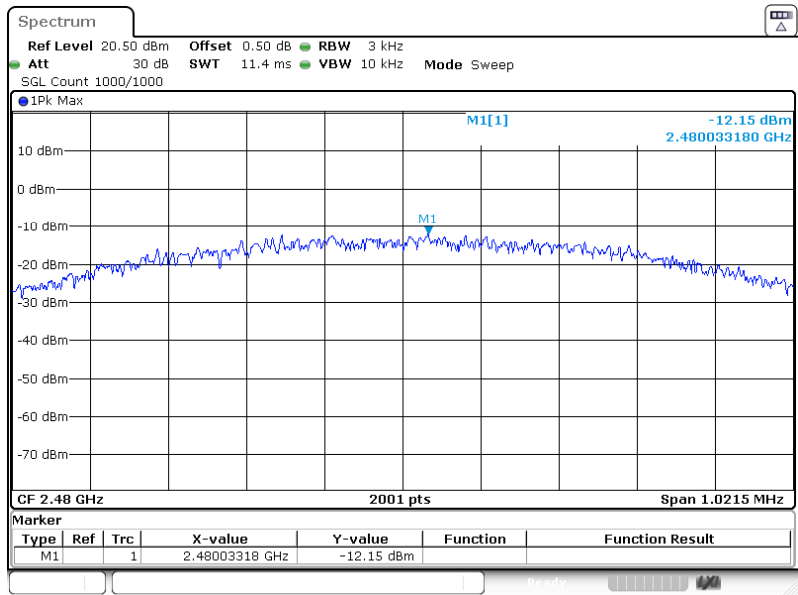


BLE 1Mbps Middle Channel



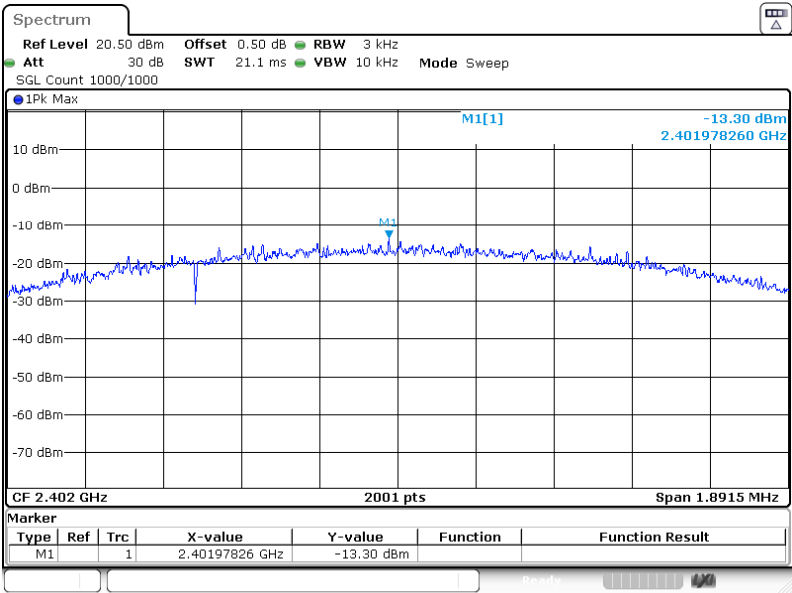
ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 22.MAY.2024 15:11:01

BLE 1Mbps High Channel



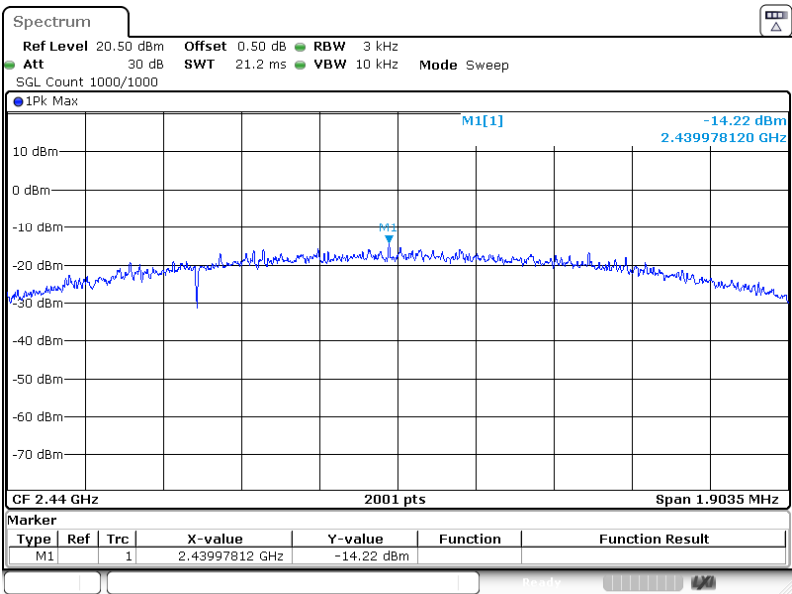
ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 22.MAY.2024 15:12:50

BLE 2Mbps Low Channel



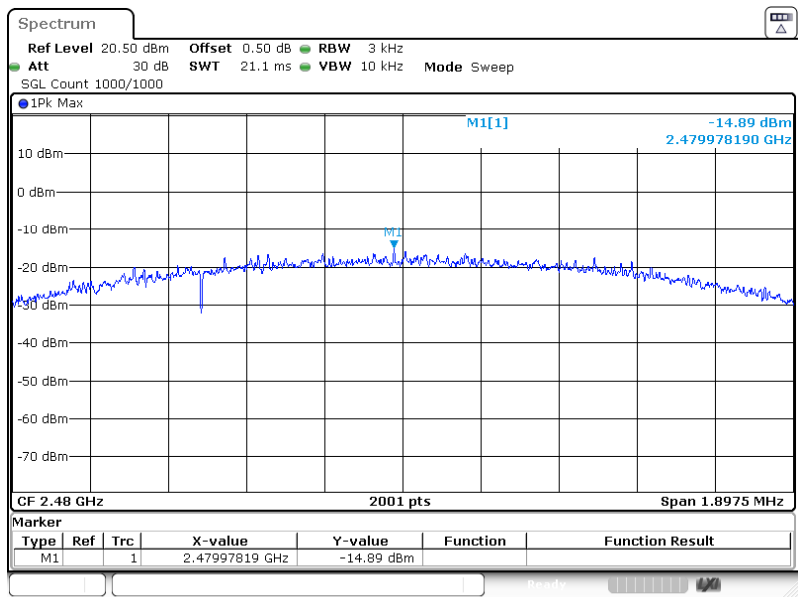
ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 22.MAY.2024 15:14:53

BLE 2Mbps Middle Channel



ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 22.MAY.2024 15:16:52

BLE 2Mbps High Channel



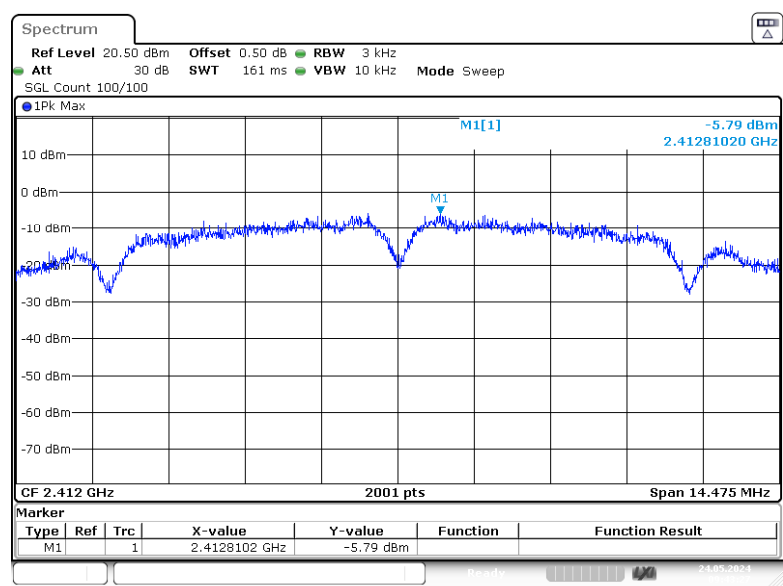
ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 22.MAY.2024 15:18:51

For 2.4G WIFI:

Test Mode:	Transmitting	Test Engineer:	Stein Peng
Test Date:	2024-05-24	Test Voltage:	AC120V/60Hz
Test Result:	Compliance	Environment:	Temp.: 22.5°C Humi.: 60% Atm: 100.4kPa
Test Modes	Test Frequency (MHz)	Reading (dBm/3kHz)	Limit (dBm/3kHz)
802.11b	2412	-5.79	8.00
	2437	-5.62	8.00
	2462	-5.29	8.00
802.11g	2412	-9.41	8.00
	2437	-8.67	8.00
	2462	-7.85	8.00
802.11n ht20	2412	-9.49	8.00
	2437	-8.89	8.00
	2462	-8.77	8.00
802.11n ht40	2422	-12.65	8.00
	2437	-11.80	8.00
	2452	-11.10	8.00

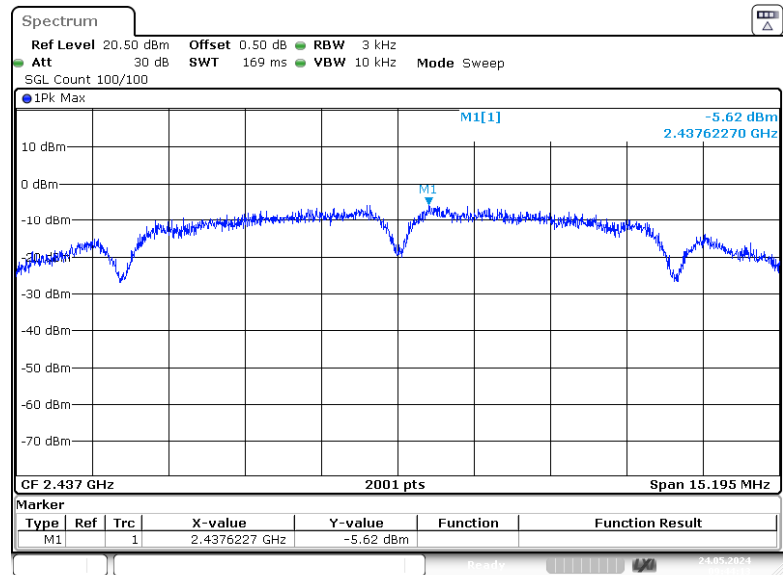
Please refer to below plots:

802.11b Mode Low Channel



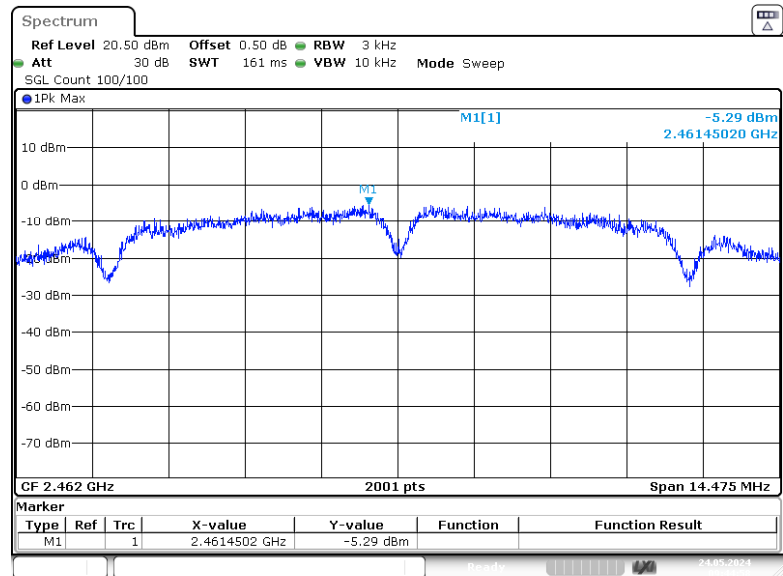
ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 09:43:27

802.11b Mode Middle Channel



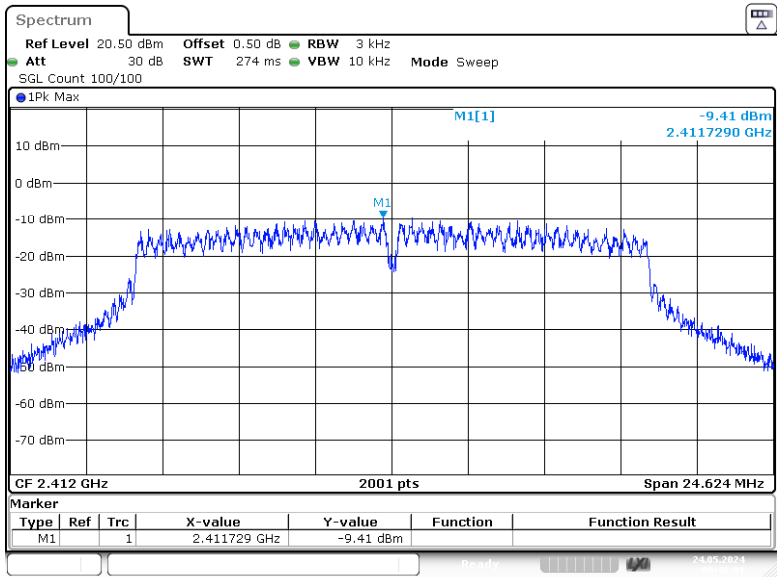
ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 09:44:12

802.11b Mode High Channel



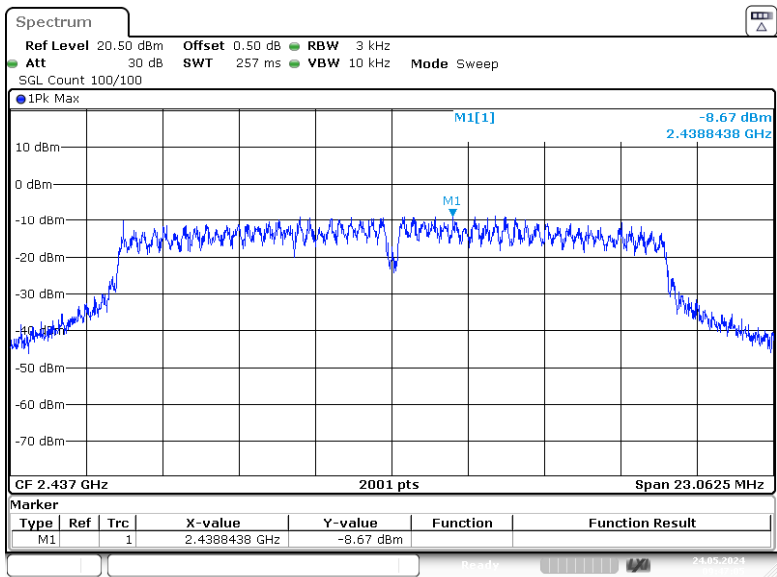
ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 09:44:57

802.11g Mode Low Channel



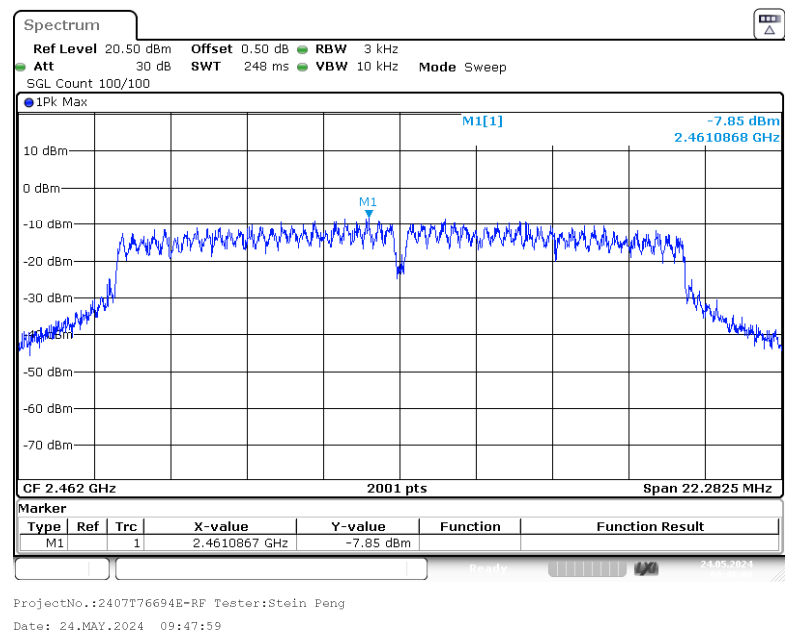
ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 09:46:01

802.11g Mode Middle Channel

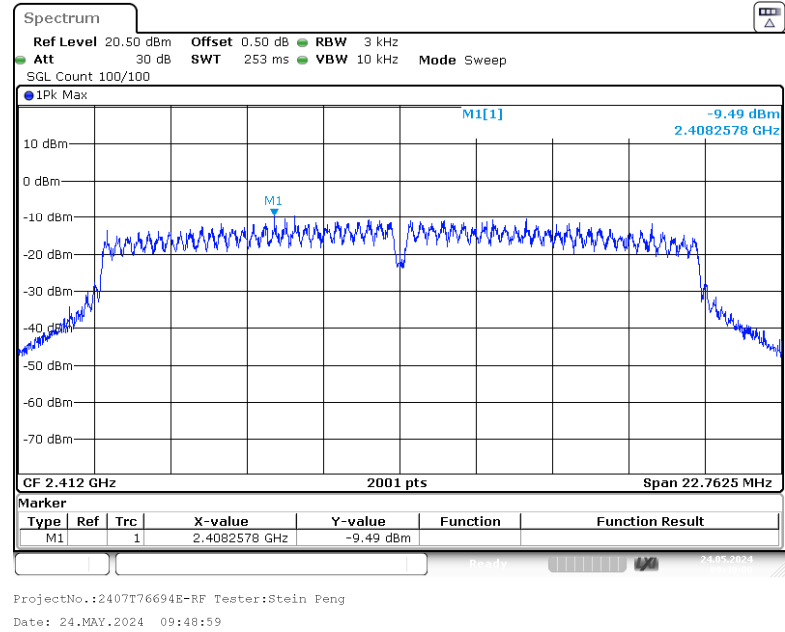


ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 09:47:05

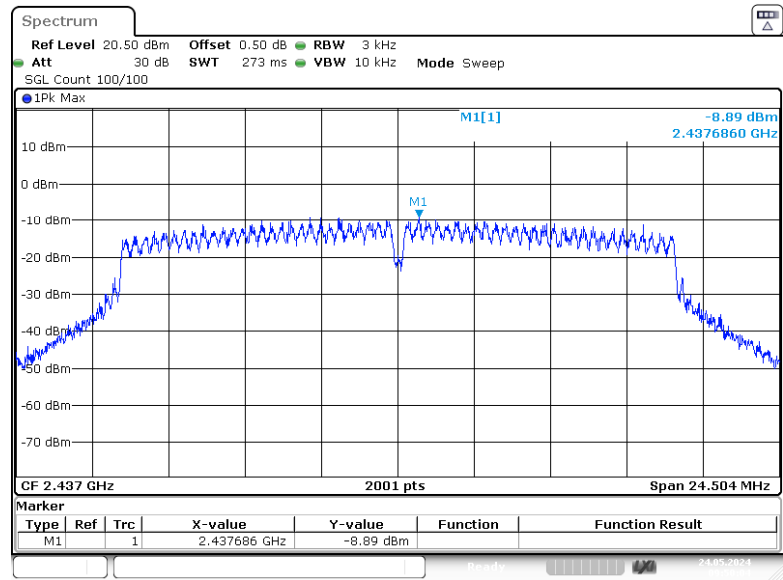
802.11g Mode High Channel



802.11n-ht20 Mode Low Channel

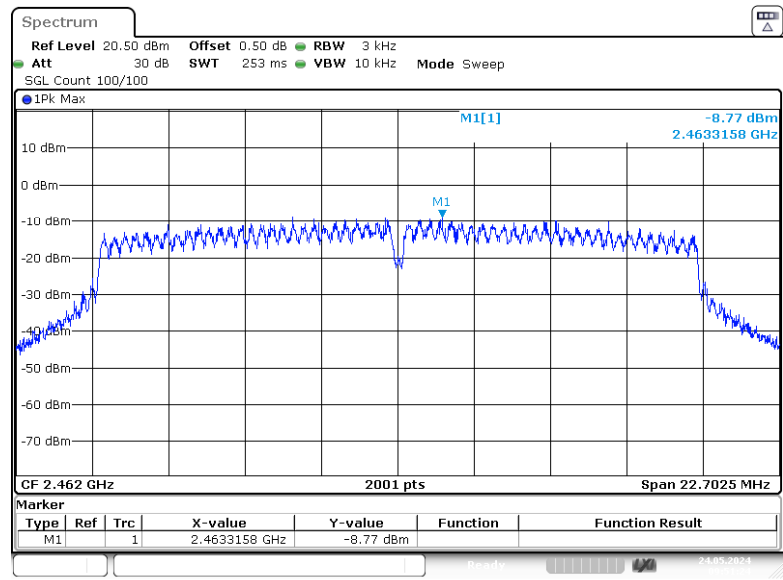


802.11n-ht20 Mode Middle Channel



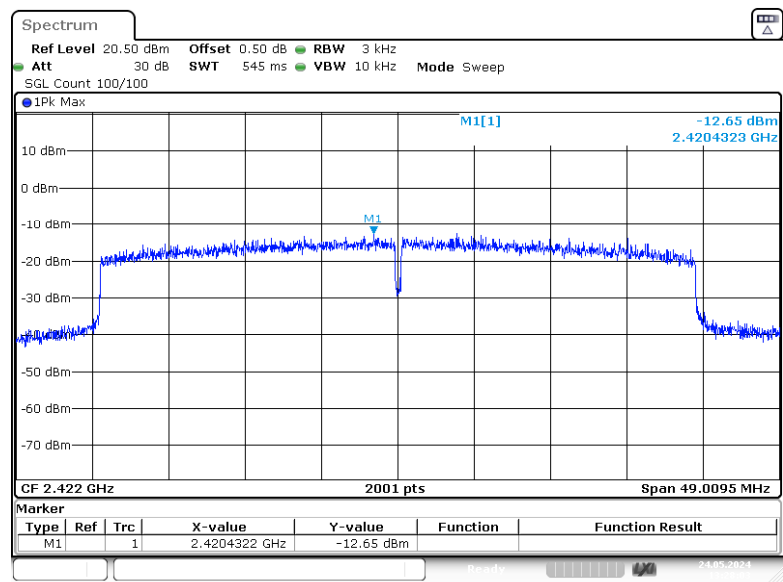
ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 09:50:04

802.11n-ht20 Mode High Channel

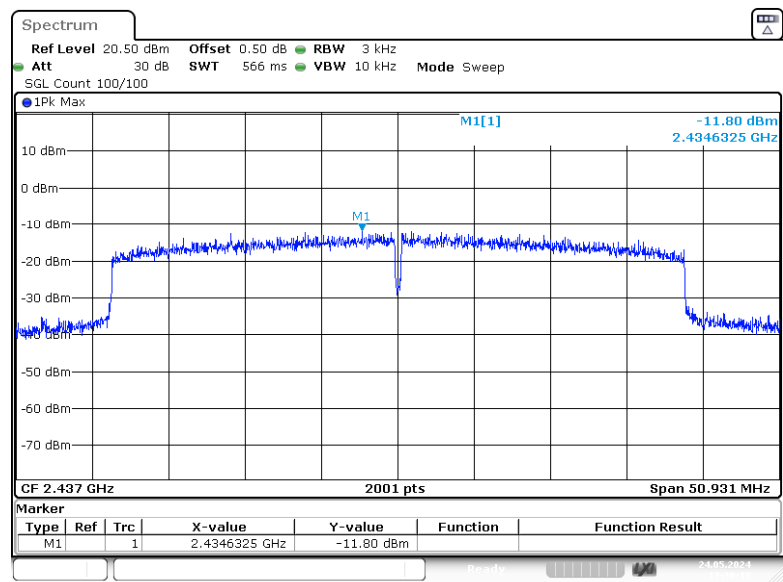


ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 09:51:24

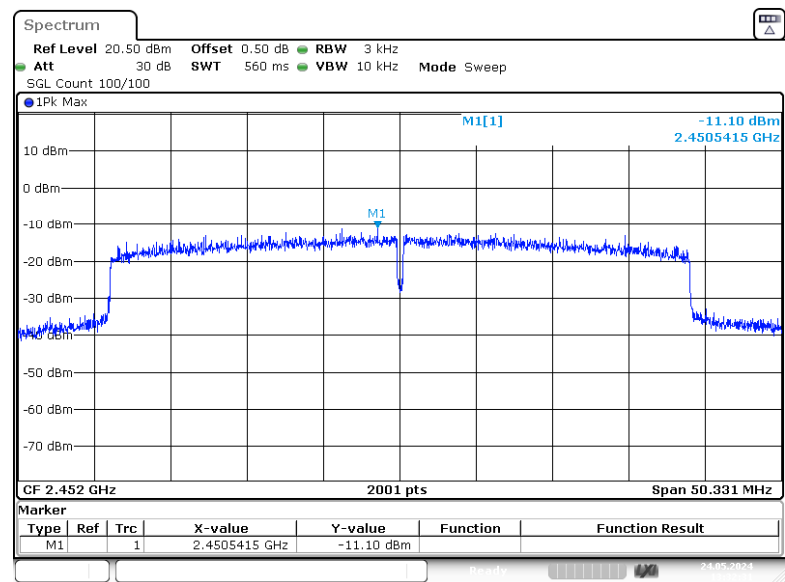
802.11n-ht40 Mode Low Channel



802.11n-ht40 Mode Middle Channel



802.11n-ht40 Mode High Channel



ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 13:32:31

EUT PHOTOGRAPHS

Please refer to the attachment 2407T76694E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2407T76694E-RF-INP EUT INTERNAL PHOTOGRAPHS.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2407T76694E-RF-TSP-01 SETUP PHOTOGRAPHS.