

Appendix C: Test Results of FCC 15B & ICES-003

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Appendix C.1: Test Plots of Conducted Emission on AC Mains

Charging mode

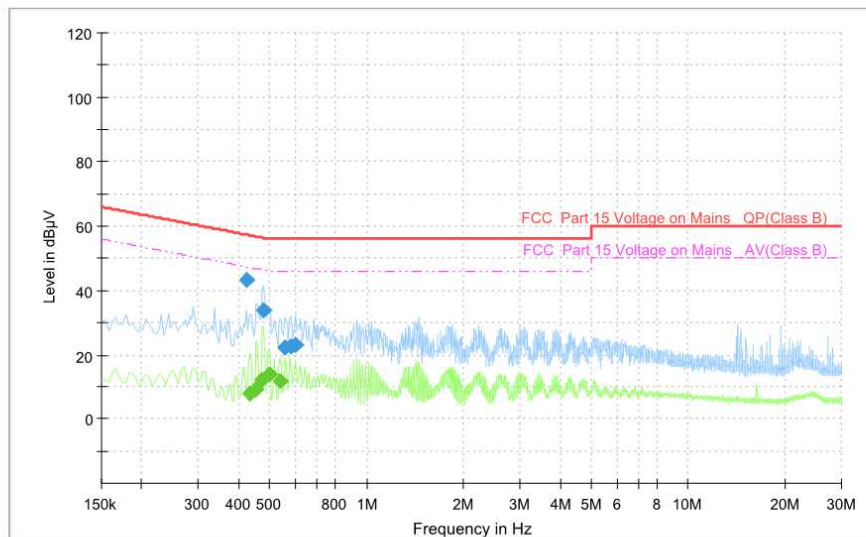
TUV Rheinland/CCIC(Ningbo) Co.,Ltd
Address:1st Floor,Building 11,Scholar Innvation Park,1188th Zhongguan Road,Zhenhai District,Ningbo

168283978-DV-L

Common Information

Test Description:	Mains Disturbance (LISN)
Test Site:	Shielding Room
Environment Conditions:	20 Degree Celsius, 54% Humidity
RBW:	9K-150K:0.2KHz;150k-30M:9KHz
Operator name:	Mike Li

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.422000	43.22	---	57.41	14.19	1000.0	9.000	L1	ON	9.5
0.434000	---	7.90	47.18	39.28	1000.0	9.000	L1	ON	9.5
0.454000	---	9.31	46.80	37.50	1000.0	9.000	L1	ON	9.5
0.474000	---	12.08	46.44	34.36	1000.0	9.000	L1	ON	9.5
0.478000	34.02	---	56.37	22.36	1000.0	9.000	L1	ON	9.5
0.498000	---	13.89	46.03	32.14	1000.0	9.000	L1	ON	9.5
0.538000	---	11.77	46.00	34.23	1000.0	9.000	L1	ON	9.5
0.558000	22.38	---	56.00	33.62	1000.0	9.000	L1	ON	9.5
0.582000	22.76	---	56.00	33.24	1000.0	9.000	L1	ON	9.5
0.602000	23.06	---	56.00	32.94	1000.0	9.000	L1	ON	9.5

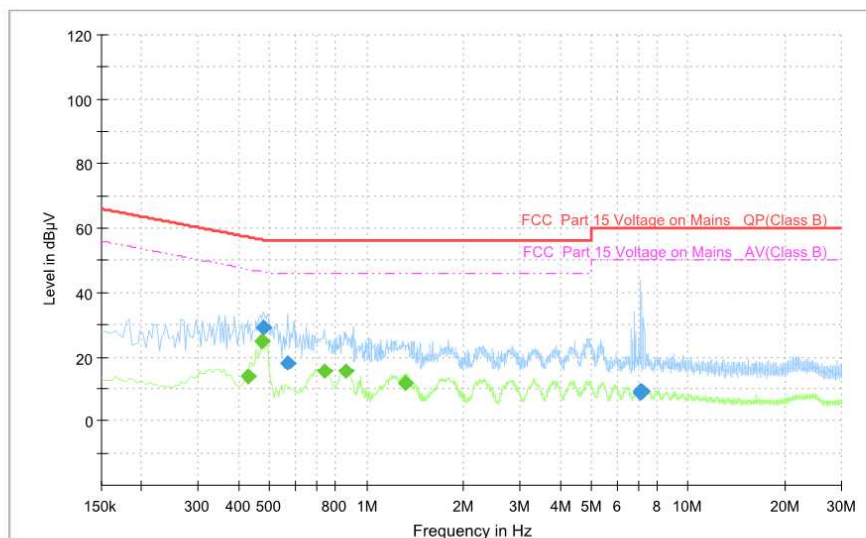
TUV Rheinland/CCIC(Ningbo) Co,Ltd
Address:1st Floor,Building 11,Scholar Innvation Park,1188th Zhongguan Road,Zhenhai District,Ningbo

168283978-DV-N

Common Information

Test Description:	Mains Disturbance (LISN)
Test Site:	Shielding Room
Environment Conditions:	20 Degree Celsius, 54% Humidity
RBW:	9K-150K:0.2KHz;150k-30M:9KHz
Operator name:	Mike Li

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.430000	---	13.76	47.25	33.49	1000.0	9.000	N	ON	9.5
0.474000	---	25.04	46.44	21.40	1000.0	9.000	N	ON	9.5
0.478000	29.17	---	56.37	27.20	1000.0	9.000	N	ON	9.5
0.566000	17.97	---	56.00	38.03	1000.0	9.000	N	ON	9.5
0.738000	---	15.66	46.00	30.34	1000.0	9.000	N	ON	9.5
0.866000	---	15.69	46.00	30.31	1000.0	9.000	N	ON	9.5
1.318000	---	11.69	46.00	34.31	1000.0	9.000	N	ON	9.6
7.082000	9.05	---	60.00	50.95	1000.0	9.000	N	ON	9.8
7.122000	8.89	---	60.00	51.11	1000.0	9.000	N	ON	9.8
7.146000	9.16	---	60.00	50.84	1000.0	9.000	N	ON	9.8

Appendix C.2: Test Plots of Radiated Emission, Below 1GHz

BT playing mode

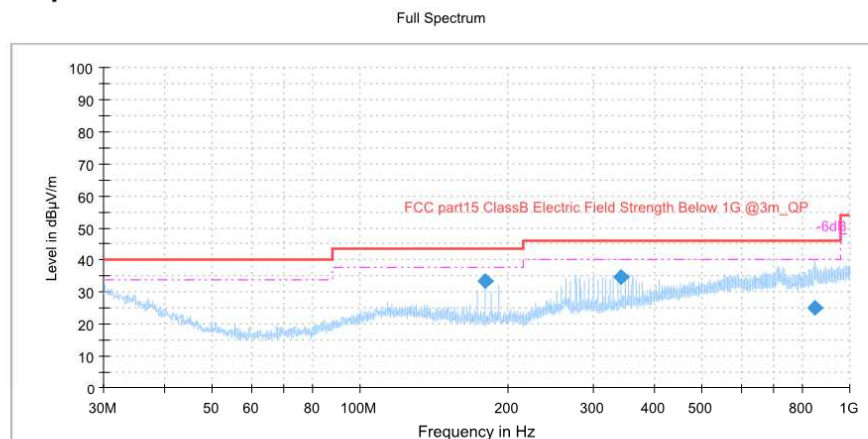
TUV Rheinland/CCIC(Ningbo)Co.,Ltd
Address: 1st Floor, Building 11, Scholar Innovation Park, 1188th Zhongguan Road, Zhenhai District, Ningbo

168283978-BT play-RE-H

Common Information

Test Description:	Radiated Emission
Test Site:	TUV Ningbo
Environment Conditions	22.3 Degree Celsius 63.7% Humidity
RBW/VBW	30MHz-1GHz: 120kHz
Operator Name:	TST

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
179.992778	33.38	43.50	10.12	1000.0	120.000	233.0	H	349.0	16.5
342.022778	34.63	46.00	11.37	1000.0	120.000	100.0	H	105.0	21.9
845.009444	25.05	46.00	20.95	1000.0	120.000	203.0	H	99.0	29.4

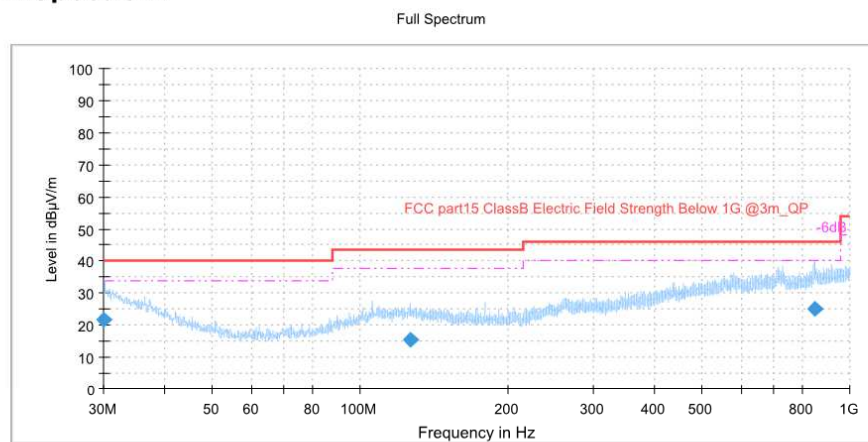
TUV Rheinland/CCIC(Ningbo)Co.,Ltd
Address: 1st Floor, Building 11, Scholar Innovation Park, 1188th Zhongguan Road, Zhenhai District, Ningbo

168283978-BT play-RE-V

Common Information

Test Description:	Radiated Emission
Test Site:	TUV Ningbo
Environment Conditions	22.3 Degree Celsius 63.7% Humidity
RBW/VBW	30MHz-1GHz:120kHz
Operator Name:	TST

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.080000	21.68	40.00	18.32	1000.0	120.000	270.0	V	143.0	25.2
127.033889	15.61	43.50	27.89	1000.0	120.000	274.0	V	103.0	19.1
845.261667	25.06	46.00	20.94	1000.0	120.000	186.0	V	142.0	29.4

Charging mode

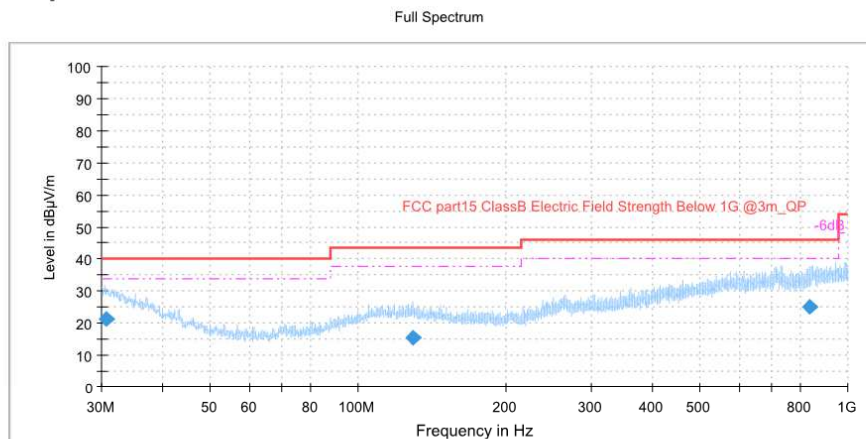
TUV Rheinland/CCIC(Ningbo)Co.,Ltd
Address: 1st Floor, Building 11, Scholar Innovation Park, 1188th Zhongguan Road, Zhenhai District, Ningbo

168283978-charging-RE-H

Common Information

Test Description:	Radiated Emission
Test Site:	TUV Ningbo
Environment Conditions	22.3 Degree Celsius 63.7% Humidity
RBW/VBW	30MHz-1GHz:120kHz
Operator Name:	TST

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.694444	21.16	40.00	18.84	1000.0	120.000	111.0	H	163.0	24.9
129.418889	15.42	43.50	28.08	1000.0	120.000	244.0	H	194.0	18.9
838.796667	24.91	46.00	21.09	1000.0	120.000	167.0	H	44.0	29.4

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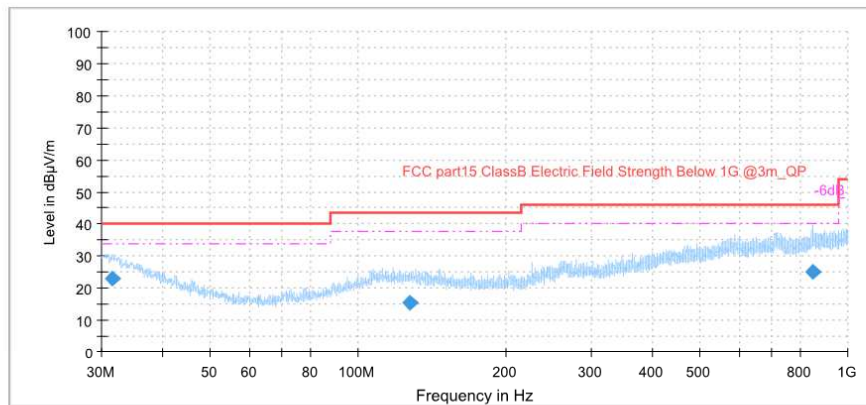
168283978-charging-RE-V

Common Information

Test Description:	Radiated Emission
Test Site:	TUV Ningbo
Environment Conditions	22.3 Degree Celsius 63.7% Humidity
RBW/VBW	30MHz-1GHz:120kHz
Operator Name:	TST

Full Spectrum

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
31.556667	23.01	40.00	16.99	1000.0	120.000	193.0	V	325.0	24.5
127.531111	15.50	43.50	28.00	1000.0	120.000	194.0	V	249.0	19.0
845.348333	24.92	46.00	21.08	1000.0	120.000	130.0	V	141.0	29.4

Aux In playing mode

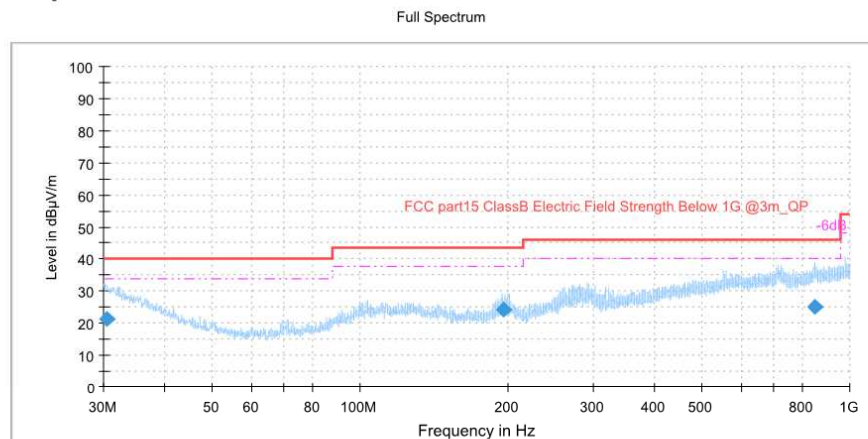
TUV Rheinland/CCIC(Ningbo)Co.,Ltd
Address: 1st Floor, Building 11, Scholar Innovation Park, 1188th Zhongguan Road, Zhenhai District, Ningbo

Test168283978-charging+Aux In playing-RE-H

Common Information

Test Description:	Radiated Emission
Test Site:	TUV Ningbo
Environment Conditions	22.3 Degree Celsius 63.7% Humidity
RBW/VBW	30MHz-1GHz:120kHz
Operator Name:	TST

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.451111	21.46	40.00	18.54	1000.0	120.000	154.0	H	187.0	25.1
195.820556	24.19	43.50	19.31	1000.0	120.000	164.0	H	349.0	16.2
845.181667	25.16	46.00	20.84	1000.0	120.000	245.0	H	150.0	29.4

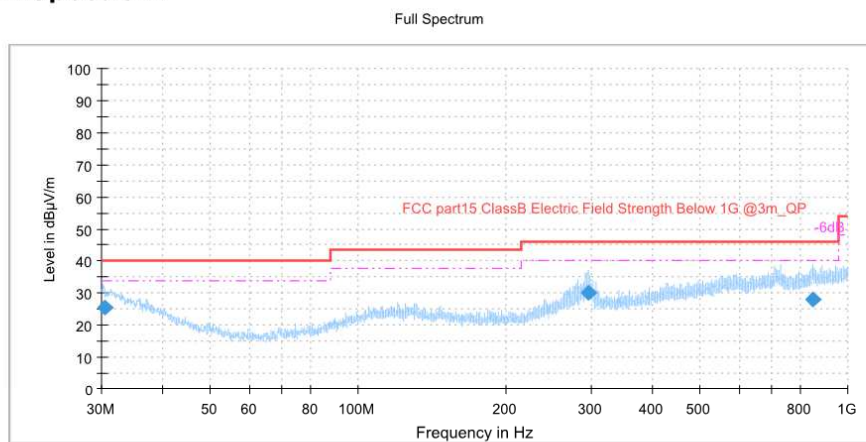
TUV Rheinland/CCIC(Ningbo)Co.,Ltd
Address: 1st Floor, Building 11, Scholar Innovation Park, 1188th Zhongguan Road, Zhenhai District, Ningbo

Test168283978-charging+Aux In playing-RE-V

Common Information

Test Description:	Radiated Emission
Test Site:	TUV Ningbo
Environment Conditions	22.3 Degree Celsius 63.7% Humidity
RBW/VBW	30MHz-1GHz:120kHz
Operator Name:	TST

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.343333	25.54	40.00	14.46	1000.0	120.000	186.0	V	23.0	25.1
295.520000	30.30	46.00	15.70	1000.0	120.000	242.0	V	206.0	20.8
847.245000	28.02	46.00	17.98	1000.0	120.000	336.0	V	96.0	29.4

Appendix C.3: Test Plots of Radiated Emission, Above 1GHz

BT playing mode

TUV Rheinland/CCIC(Ningbo)Co.,Ltd
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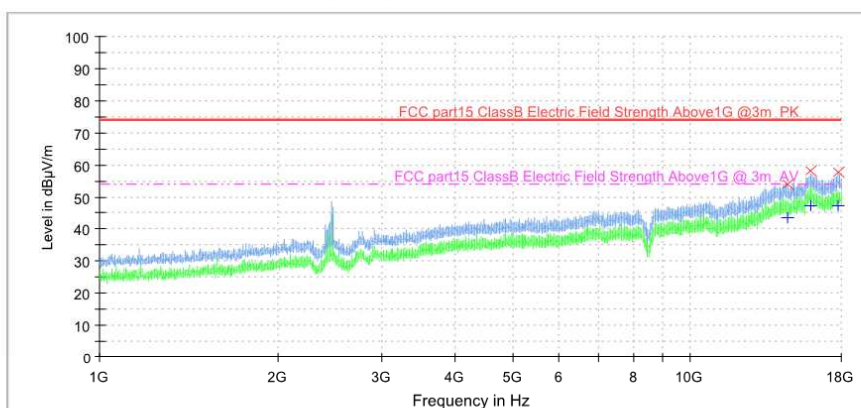
168283978-BT playing-above1G-RE-H

Common Information

Test Description:	Radiated Emission
Test Site:	TUV Ningbo
Environment Conditions	24 Degree Celsius,64%Humidity
RBW	1GHz-18GHz:1MHz
Operator Name:	HY

(SCU18F) RE2 1G-18GHz - PRE

(SCU18F) RE2 1G-18GHz - PRE



Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
14634.000000	54.2	1000.0	1000.000	200.0	H	0.0	17.5	19.8	74.0
15967.435000	58.3	1000.0	1000.000	200.0	H	0.0	20.8	15.7	74.0
17836.905000	57.8	1000.0	1000.000	200.0	H	0.0	22.0	16.2	74.0

Limit and Margin-AV

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
14634.000000	43.7	1000.0	1000.000	200.0	H	0.0	17.5	10.3	54.0
15967.435000	47.5	1000.0	1000.000	200.0	H	0.0	20.8	6.6	54.0
17836.905000	47.2	1000.0	1000.000	200.0	H	0.0	22.0	6.8	54.0

TUV Rheinland/CCIC(Ningbo)Co.,Ltd
Address: 1st Floor, Building 11, Scholar Innovation Park, 1188th Zhongguan Road, Zhenhai District, Ningbo

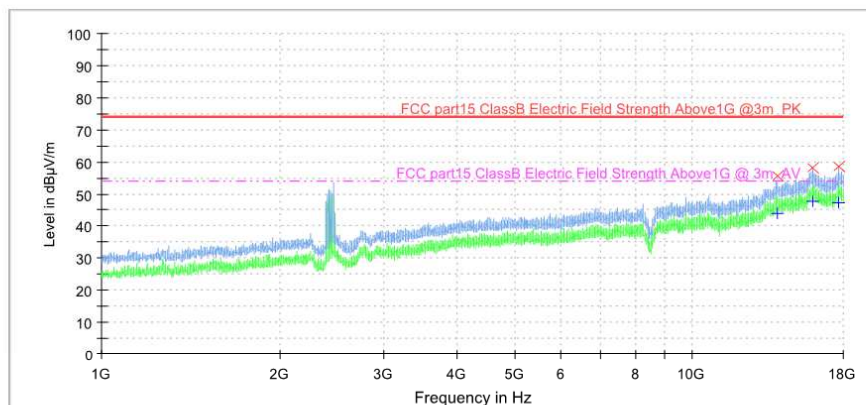
168283978-BT playing-above1G-RE-V

Common Information

Test Description:	Radiated Emission
Test Site:	TUV Ningbo
Environment Conditions	24 Degree Celsius,64%Humidity
RBW	1GHz-18GHz:1MHz
Operator Name:	HY

(SCU18F) RE2 1G-18GHz - PRE

(SCU18F) RE2 1G-18GHz - PRE



Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
13920.530000	55.5	1000.0	1000.000	200.0	V	0.0	17.1	18.5	74.0
15972.750000	58.0	1000.0	1000.000	200.0	V	0.0	20.9	16.0	74.0
17722.155000	58.5	1000.0	1000.000	200.0	V	0.0	21.6	15.5	74.0

Limit and Margin-AV

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
13920.530000	44.0	1000.0	1000.000	200.0	V	0.0	17.1	10.0	54.0
15972.750000	47.6	1000.0	1000.000	200.0	V	0.0	20.9	6.4	54.0
17722.155000	47.3	1000.0	1000.000	200.0	V	0.0	21.6	6.7	54.0