

Compliance for section 15.247(h)

According to Bluetooth Core specification, the Bluetooth system incorporates with an adaptive system to detect other user within the spectrum band so that it individually and independently to avoid hopping on the occupied channels.

According to the Bluetooth Core specification, the Bluetooth system is designed not have the ability to coordinated with other FHSS System in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitter.

5.10 Radiated Spurious Emission & Restricted bands

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10: 2020				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Peak	120 kHz	300kHz	Peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.					

Test Setup:

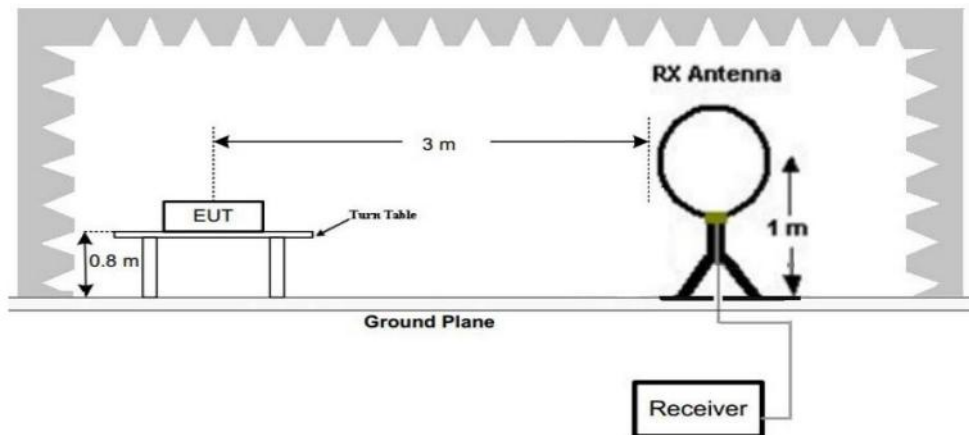


Figure 1. Below 30MHz

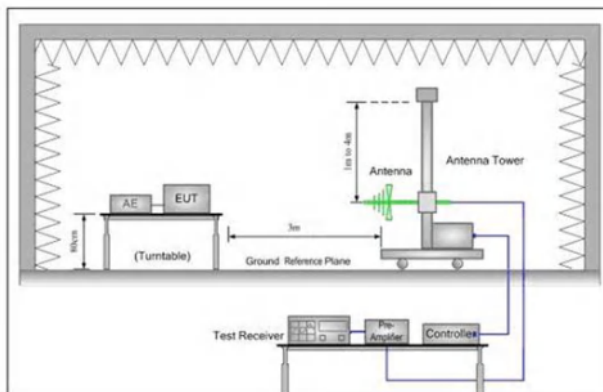


Figure 2. 30MHz to 1GHz

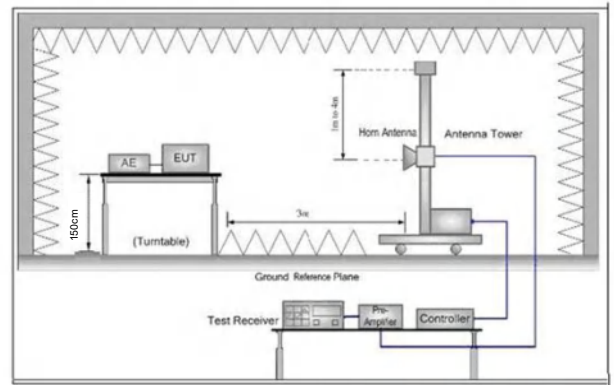


Figure 3. Above 1 GHz

Test Procedure:

- a. 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
Note: For the radiated emission test above 1GHz:
Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

	d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. g. Test the EUT in the lowest channel (2402MHz), the middle channel (2441MHz), the Highest channel (2480MHz) h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. i. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Non-hopping transmitting mode with all kind of modulation and all kind of data type Transmitting mode
Final Test Mode:	Through Pre-scan, find the DH5 of data type and GFSK modulation is the worst case. For below 1GHz part, through pre-scan, the worst case is the highest channel. Only the worst case is recorded in the report.
Test Results:	Pass

5.10.1 Radiated Emission below 1GHz

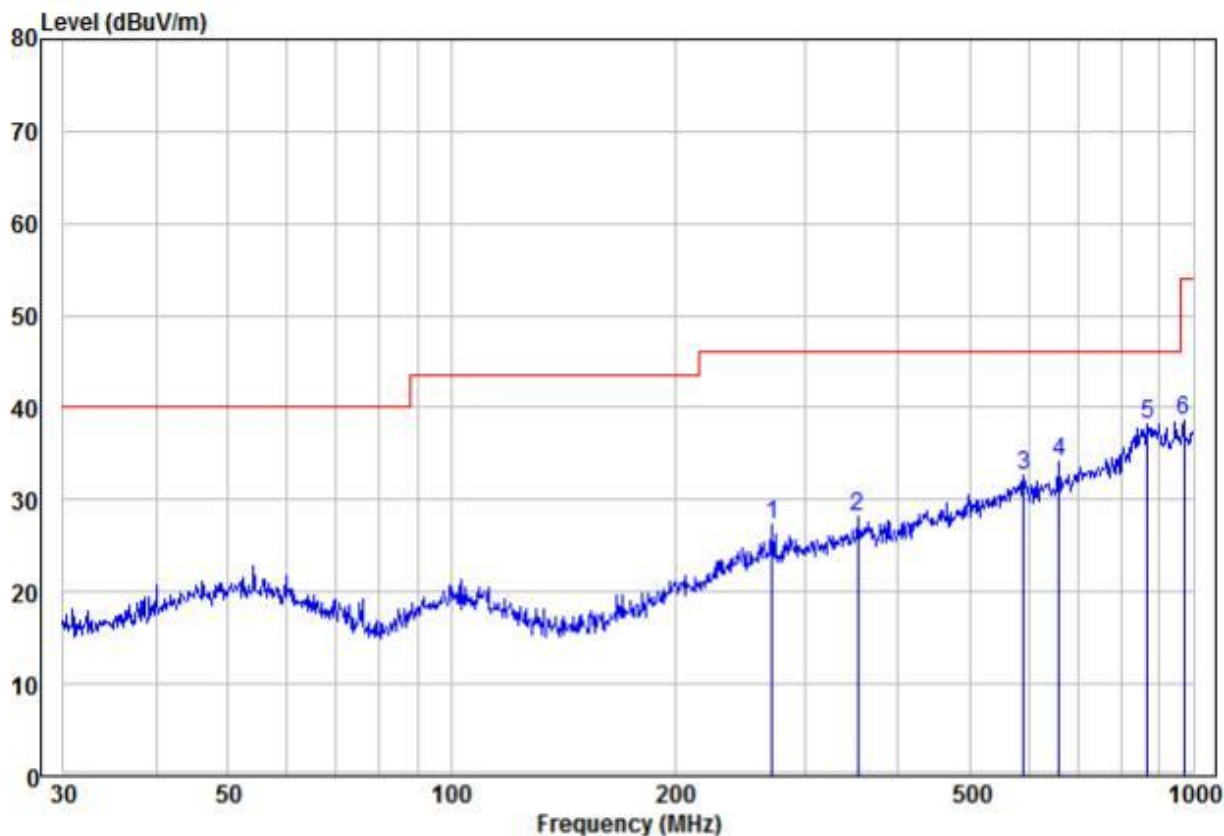
1#:

30MHz~1GHz

Test mode:

Transmitting

Vertical



	Read		Limit	Over			
Freq	Level	Factor	Level	Line	Limit	Remark	Pol/Phase
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	270.37	25.41	2.00	27.41	46.00	-18.59 Peak	VERTICAL
2	352.94	26.11	2.00	28.11	46.00	-17.89 Peak	VERTICAL
3	590.97	32.14	0.50	32.64	46.00	-13.36 Peak	VERTICAL
4	658.84	33.64	0.50	34.14	46.00	-11.86 Peak	VERTICAL
5 pp	869.13	34.70	3.50	38.20	46.00	-7.80 Peak	VERTICAL
6	972.34	36.55	2.00	38.55	54.00	-15.45 Peak	VERTICAL

Remark:

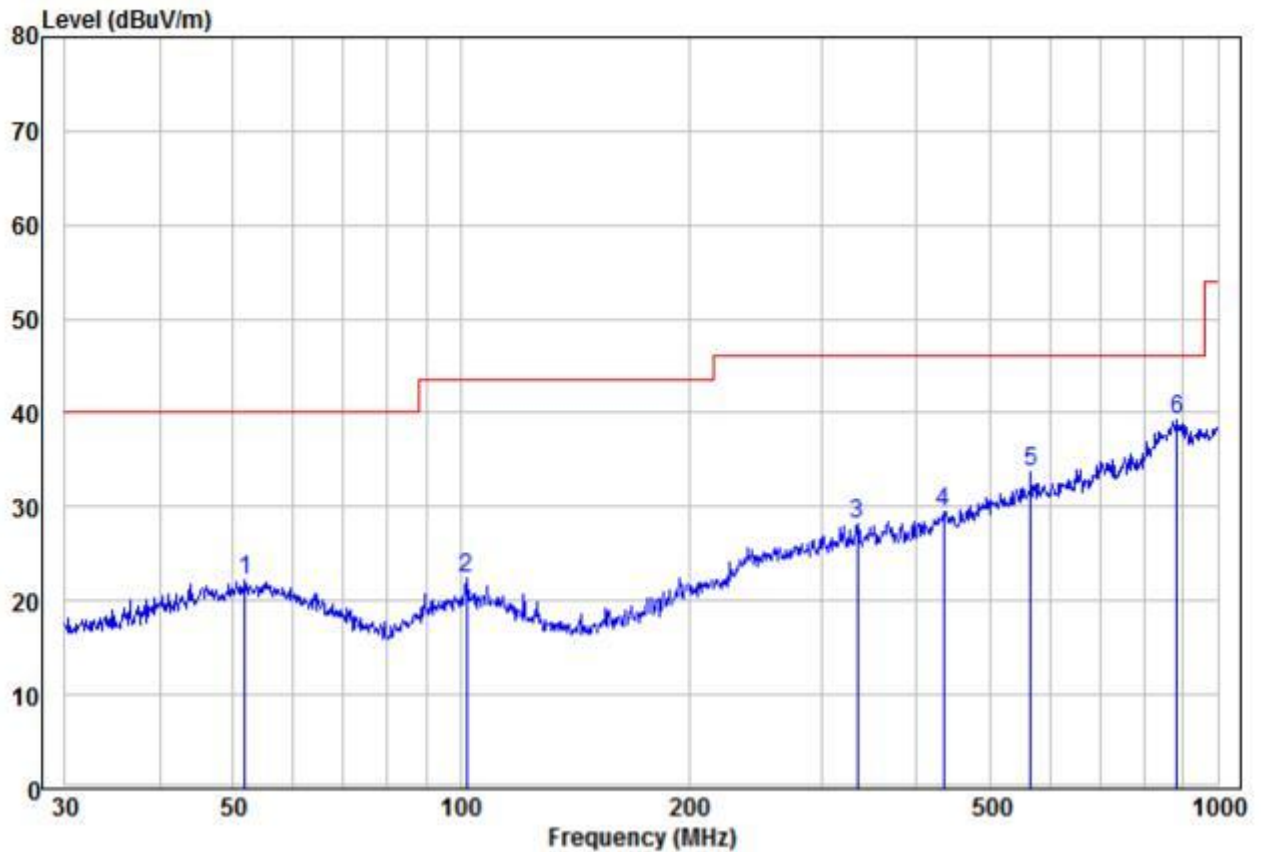
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Factor= Antenna Factor + Cable Factor – Preamplifier Factor,

Level = Read Level + Factor,

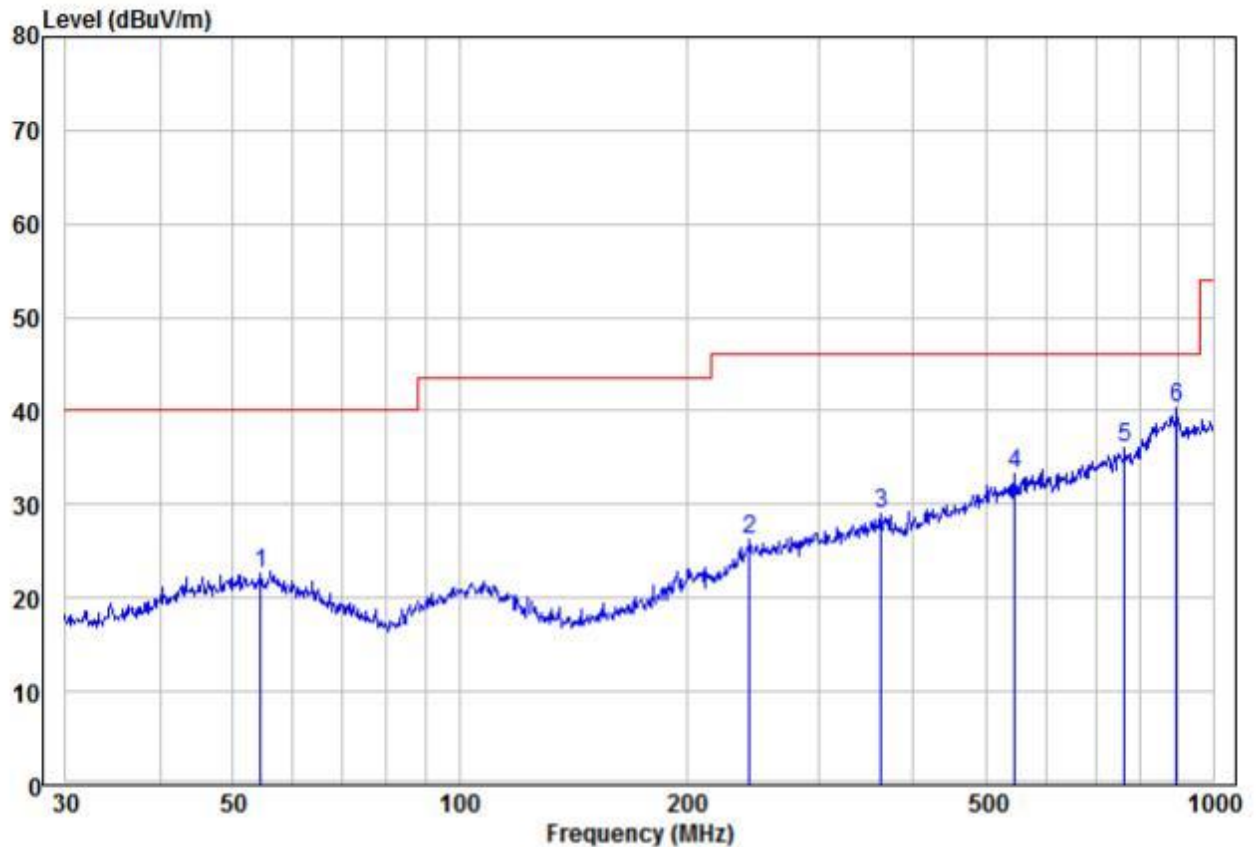
Over Limit=Level-Limit Line.

Test mode:	Transmitting	Horizontal
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	Freq	Read Level	Factor	Level	Limit	Over	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	51.84	22.75	-0.63	22.12	40.00	-17.88	Peak	HORIZONTAL
2	101.64	22.48	0.00	22.48	43.50	-21.02	Peak	HORIZONTAL
3	333.69	26.11	2.00	28.11	46.00	-17.89	Peak	HORIZONTAL
4	434.07	28.36	1.00	29.36	46.00	-16.64	Peak	HORIZONTAL
5	566.62	32.62	1.00	33.62	46.00	-12.38	Peak	HORIZONTAL
6 pp	884.50	35.70	3.50	39.20	46.00	-6.80	Peak	HORIZONTAL

2#: 30MHz~1GHz		
Test mode:	Transmitting	Vertical



	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	54.45	22.77	-0.11	22.66	40.00	-17.34	Peak	VERTICAL
2	242.53	24.42	1.90	26.32	46.00	-19.68	Peak	VERTICAL
3	362.98	27.10	2.00	29.10	46.00	-16.90	Peak	VERTICAL
4	545.18	32.19	1.00	33.19	46.00	-12.81	Peak	VERTICAL
5	763.38	34.64	1.50	36.14	46.00	-9.86	Peak	VERTICAL
6 pp	893.86	36.80	3.50	40.30	46.00	-5.70	Peak	VERTICAL

Remark:

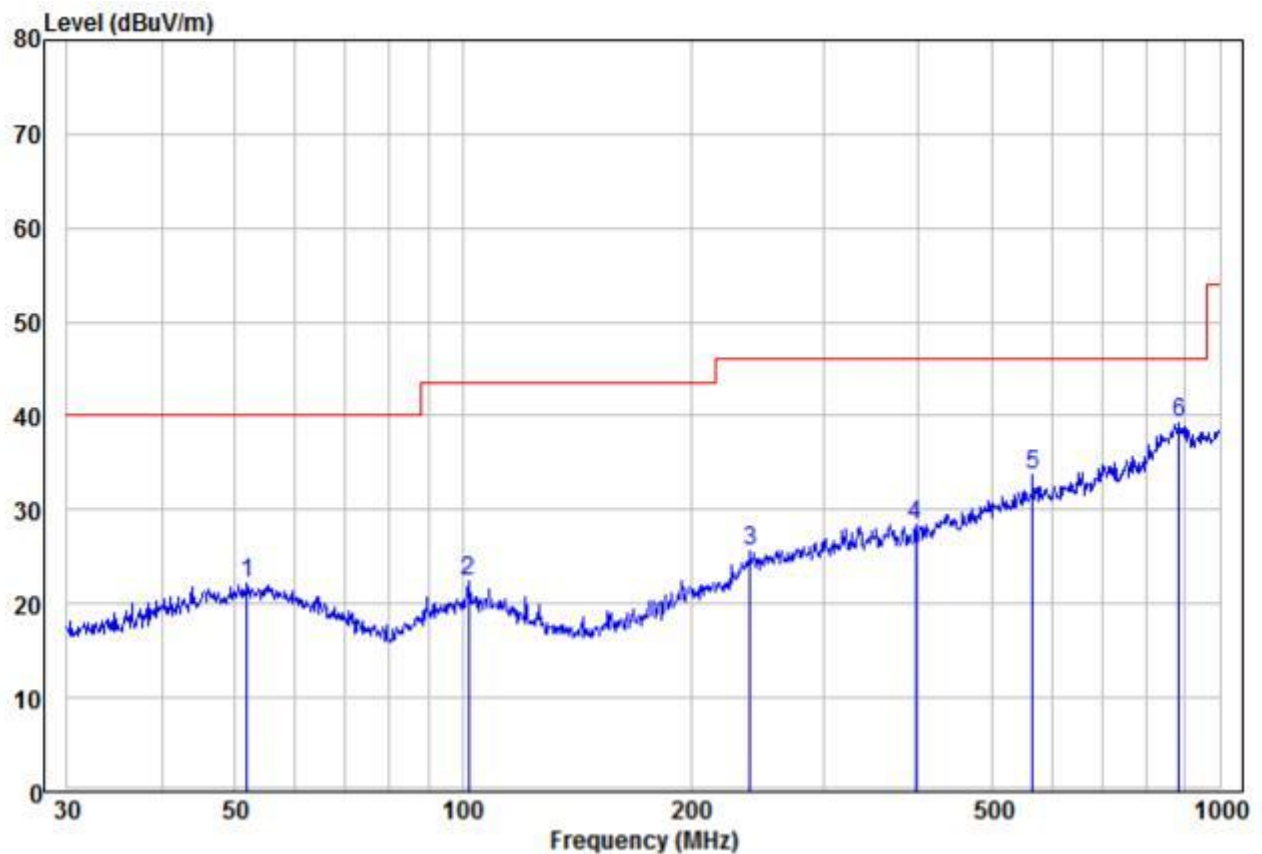
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Factor= Antenna Factor + Cable Factor – Preamplifier Factor,

Level = Read Level + Factor,

Over Limit=Level-Limit Line.

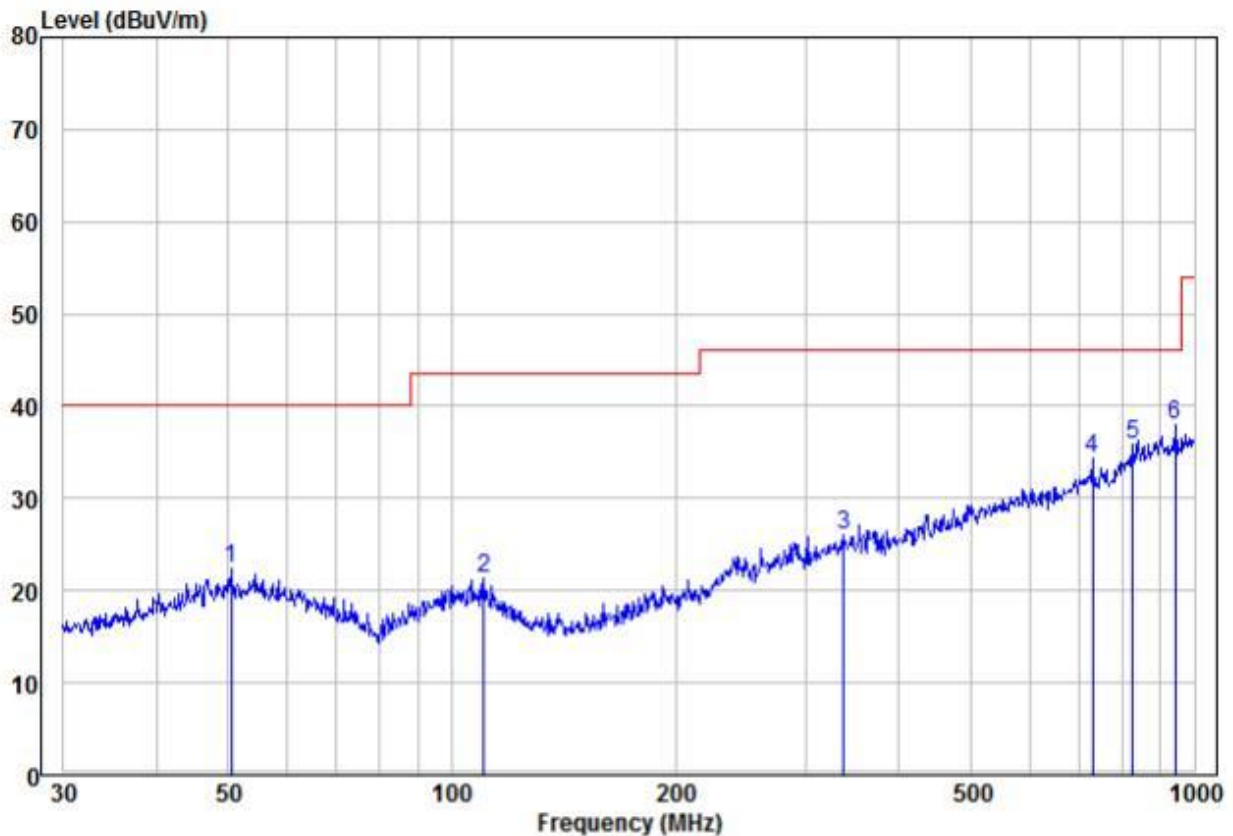
Test mode:	Transmitting	Horizontal
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	Freq	Read Level	Factor	Level	Limit	Over	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	51.84	22.75	-0.63	22.12	40.00	-17.88	Peak	HORIZONTAL
2	101.64	22.48	0.00	22.48	43.50	-21.02	Peak	HORIZONTAL
3	239.99	23.76	1.80	25.56	46.00	-20.44	Peak	HORIZONTAL
4	396.24	27.43	1.00	28.43	46.00	-17.57	Peak	HORIZONTAL
5	566.62	32.62	1.00	33.62	46.00	-12.38	Peak	HORIZONTAL
6 pp	884.50	35.70	3.50	39.20	46.00	-6.80	Peak	HORIZONTAL

3#:
30MHz~1GHz

Test mode:	Transmitting	Vertical
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	Read		Limit	Over			
Freq	Level	Factor	Level	Line	Limit	Remark	Pol/Phase
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	50.41	23.31	-0.92	22.39	40.00	-17.61 Peak	VERTICAL
2	110.57	21.31	0.00	21.31	43.50	-22.19 Peak	VERTICAL
3	337.22	24.09	2.00	26.09	46.00	-19.91 Peak	VERTICAL
4	729.36	33.32	1.00	34.32	46.00	-11.68 Peak	VERTICAL
5	827.49	32.94	3.00	35.94	46.00	-10.06 Peak	VERTICAL
6 pp	942.13	36.02	2.00	38.02	46.00	-7.98 Peak	VERTICAL

Remark:

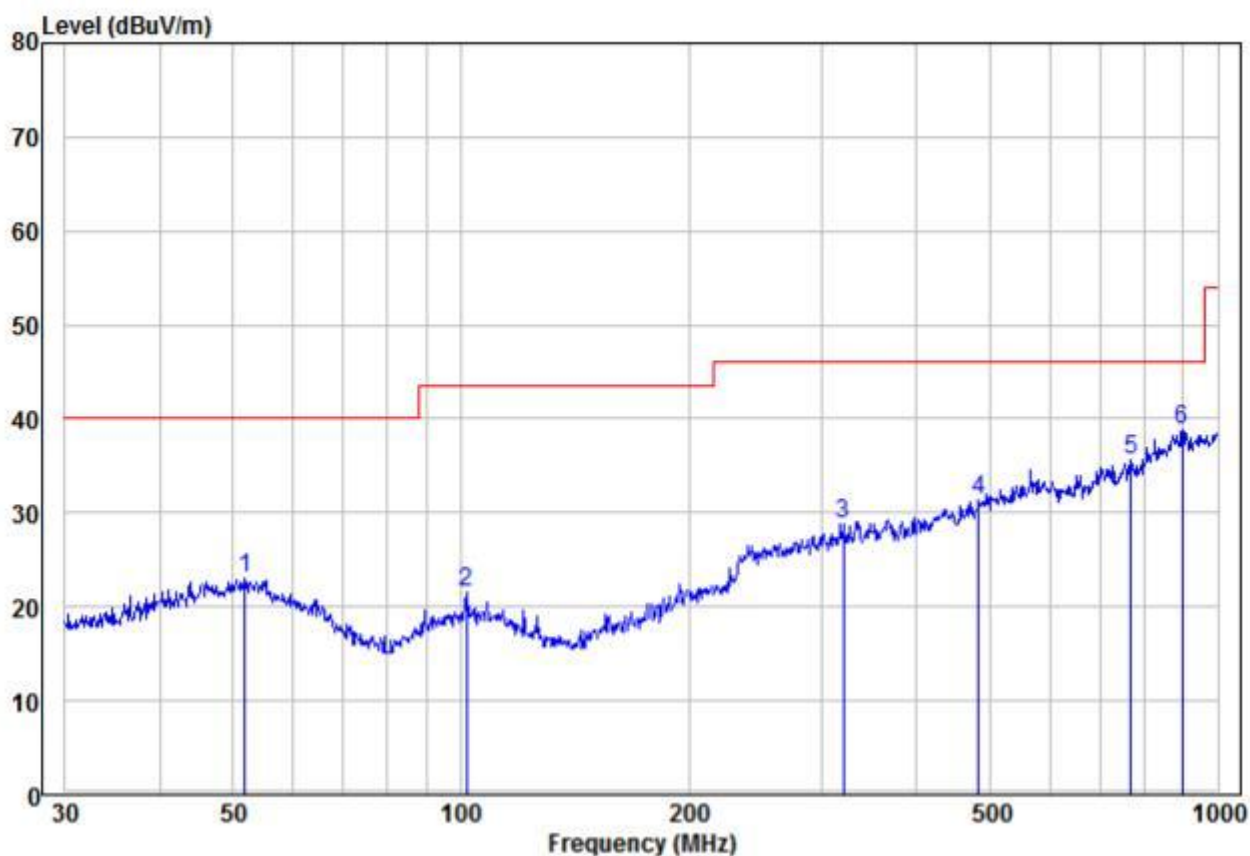
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Factor= Antenna Factor + Cable Factor – Preamplifier Factor,

Level = Read Level + Factor,

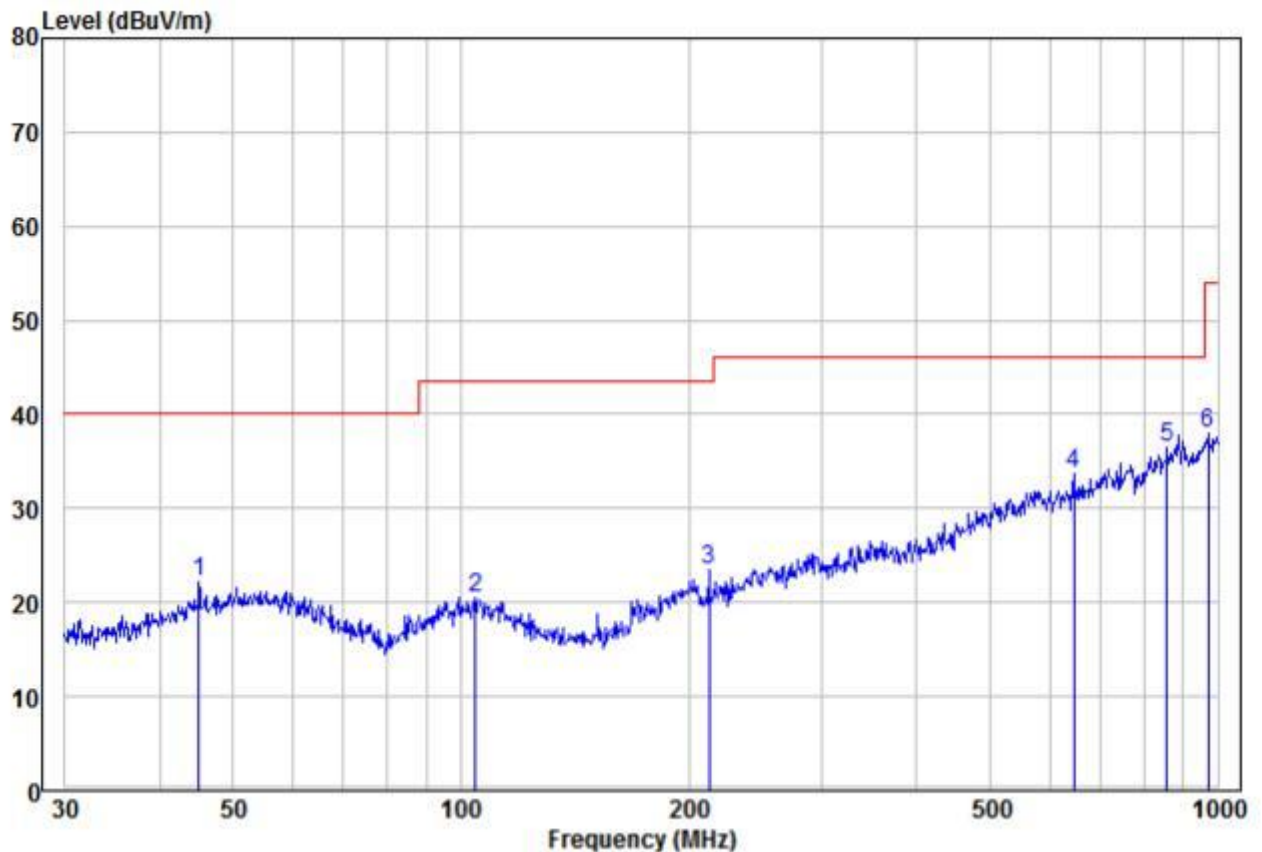
Over Limit=Level-Limit Line.

Test mode:	Transmitting	Horizontal
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	Read Freq	Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	51.84	23.75	-0.63	23.12	40.00	-16.88	Peak	HORIZONTAL
2	101.64	21.48	0.00	21.48	43.50	-22.02	Peak	HORIZONTAL
3	319.94	26.89	2.00	28.89	46.00	-17.11	Peak	HORIZONTAL
4	483.91	30.38	1.00	31.38	46.00	-14.62	Peak	HORIZONTAL
5	768.75	34.07	1.50	35.57	46.00	-10.43	Peak	HORIZONTAL
6 pp	897.00	35.45	3.30	38.75	46.00	-7.25	Peak	HORIZONTAL

4#: 30MHz~1GHz		
Test mode:	Transmitting	Vertical



	Read Freq	Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	45.06	23.61	-1.49	22.12	40.00	-17.88	Peak	VERTICAL
2	104.54	20.45	0.00	20.45	43.50	-23.05	Peak	VERTICAL
3	213.02	23.53	0.00	23.53	43.50	-19.97	Peak	VERTICAL
4	645.12	33.19	0.50	33.69	46.00	-12.31	Peak	VERTICAL
5 pp	857.02	33.06	3.50	36.56	46.00	-9.44	Peak	VERTICAL
6	972.34	35.99	2.00	37.99	54.00	-16.01	Peak	VERTICAL

Remark:

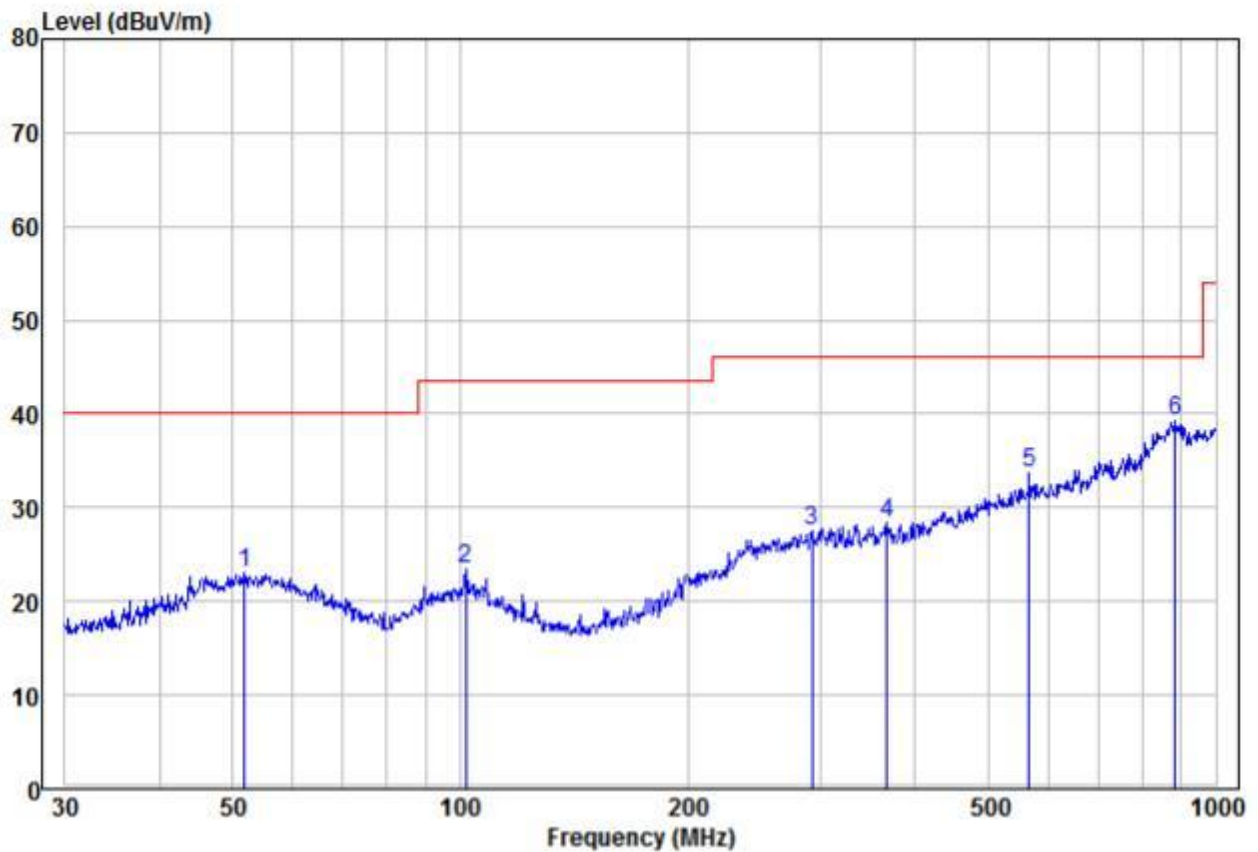
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Factor= Antenna Factor + Cable Factor – Preamplifier Factor,

Level = Read Level + Factor,

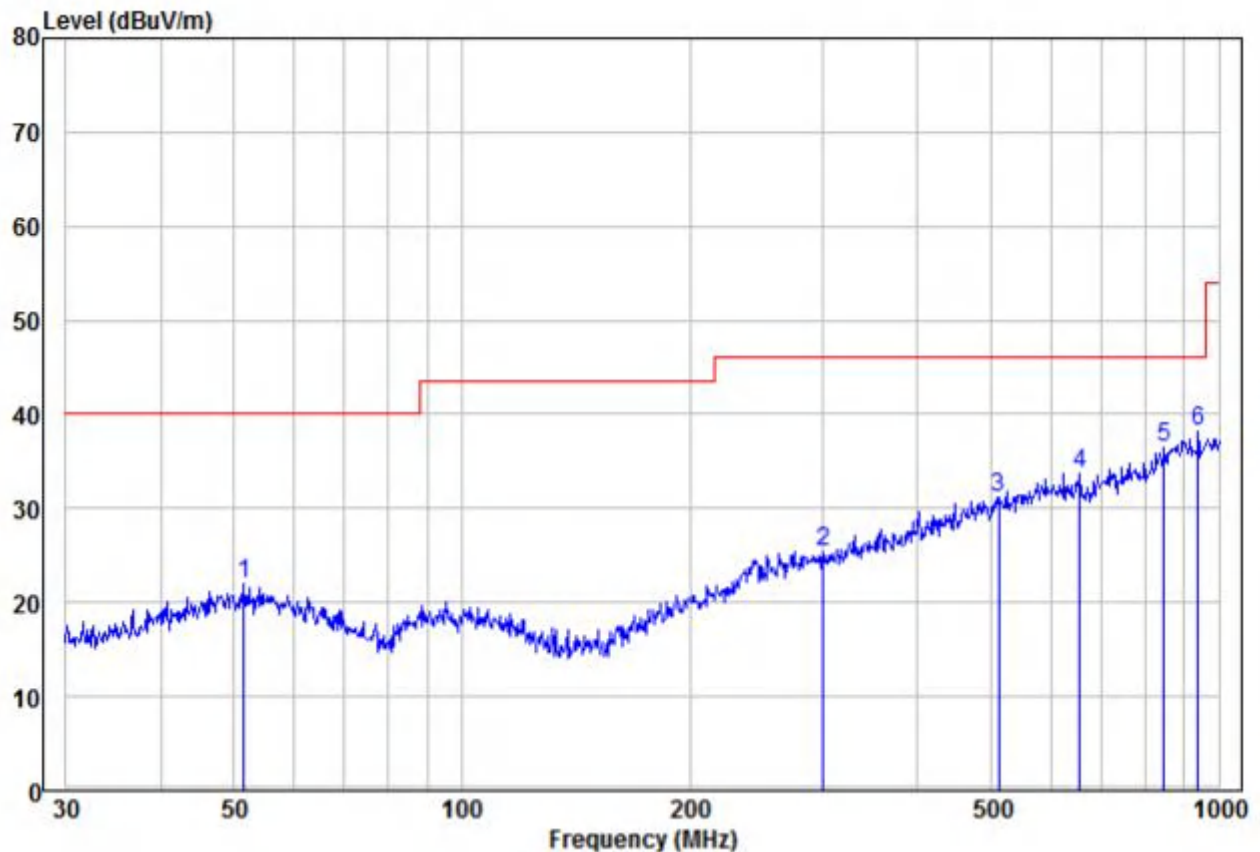
Over Limit=Level-Limit Line.

Test mode:	Transmitting	Horizontal
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	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	51.84	23.75	-0.63	23.12	40.00	-16.88	Peak	HORIZONTAL
2	101.64	23.48	0.00	23.48	43.50	-20.02	Peak	HORIZONTAL
3	292.06	25.49	2.00	27.49	46.00	-18.51	Peak	HORIZONTAL
4	366.82	26.30	2.00	28.30	46.00	-17.70	Peak	HORIZONTAL
5	566.62	32.62	1.00	33.62	46.00	-12.38	Peak	HORIZONTAL
6 pp	884.50	35.70	3.50	39.20	46.00	-6.80	Peak	HORIZONTAL

5#: 30MHz~1GHz		
Test mode:	Transmitting	Vertical



	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	51.48	22.58	-0.70	21.88	40.00	-18.12	Peak	VERTICAL
2	300.37	23.36	2.00	25.36	46.00	-20.64	Peak	VERTICAL
3	511.84	30.22	1.00	31.22	46.00	-14.78	Peak	VERTICAL
4	656.53	33.29	0.50	33.79	46.00	-12.21	Peak	VERTICAL
5	848.06	33.02	3.50	36.52	46.00	-9.48	Peak	VERTICAL
6 pp	938.83	36.12	2.00	38.12	46.00	-7.88	Peak	VERTICAL

Remark:

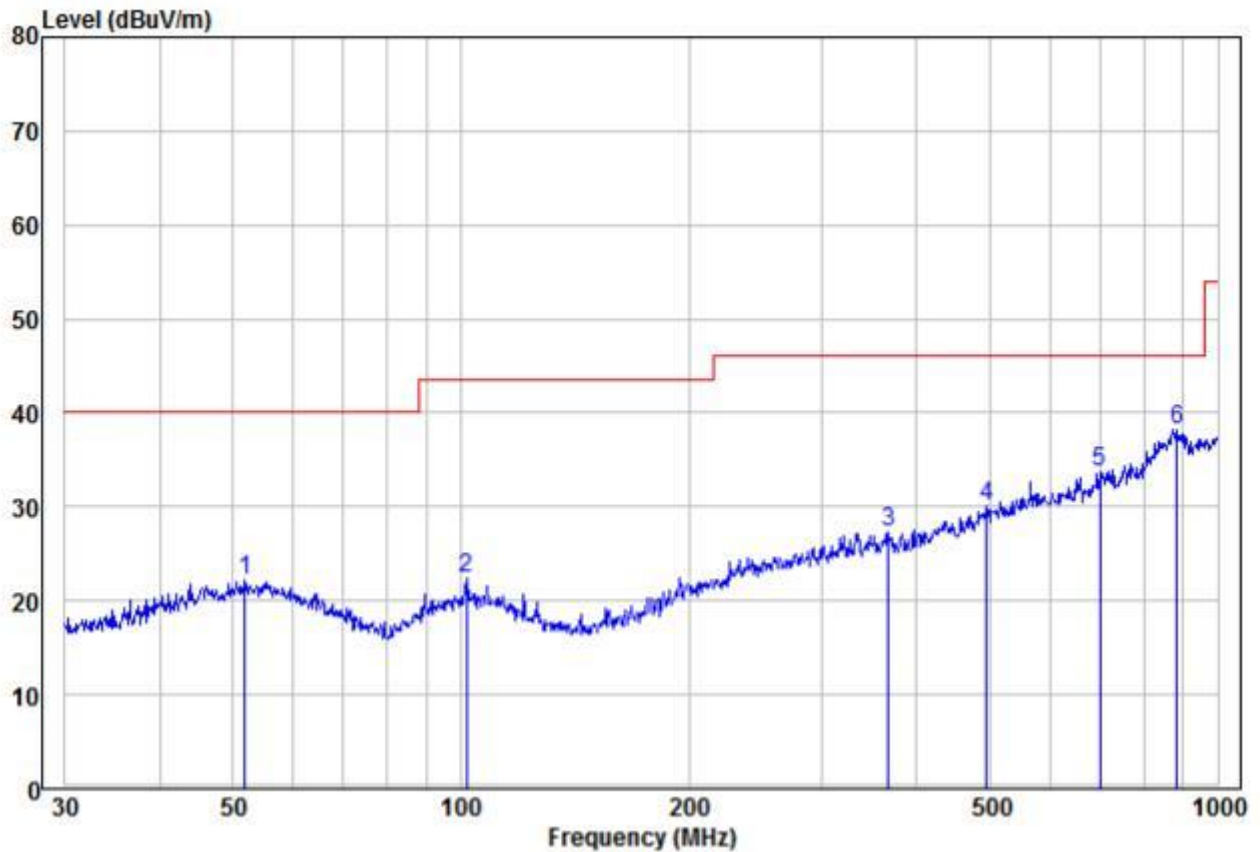
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Level = Read Level + Factor,

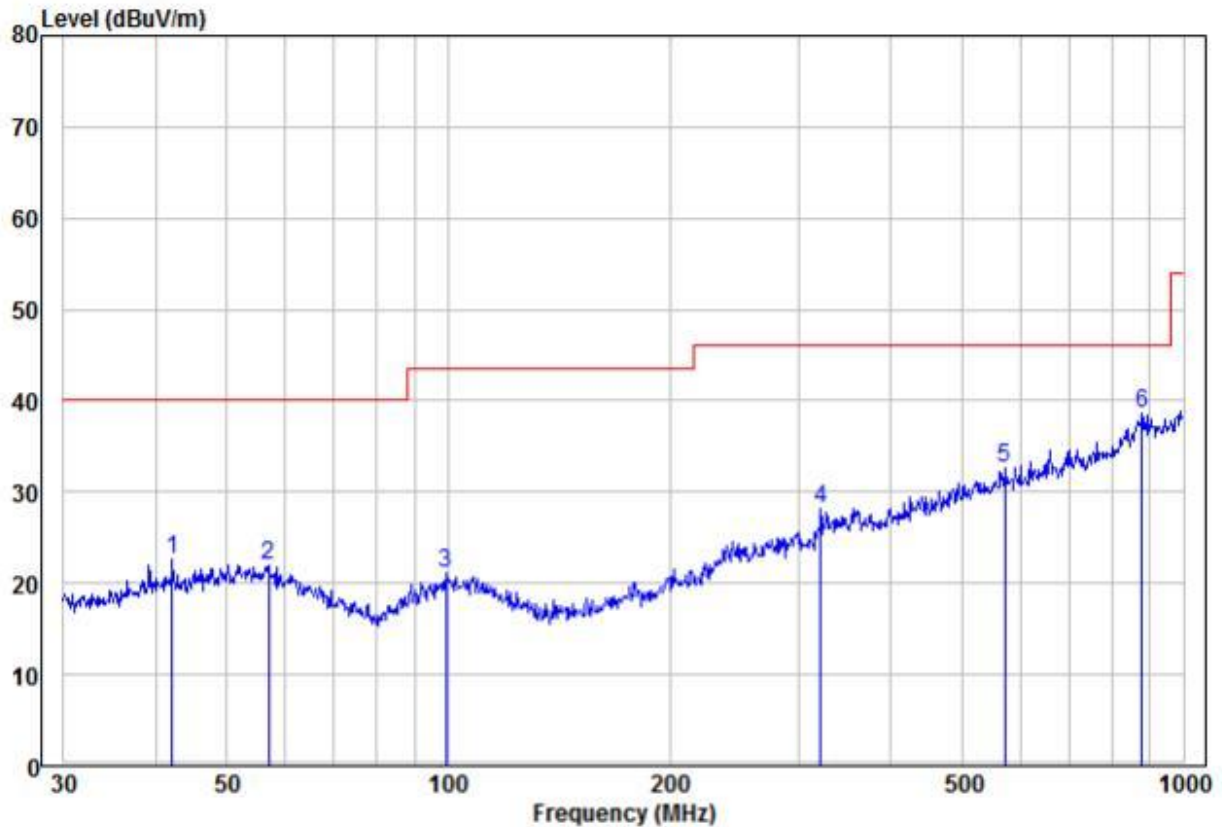
Over Limit=Level-Limit Line.

Test mode:	Transmitting	Horizontal
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	Read			Limit	Over		
Freq	Level	Factor	Level	Line	Limit	Remark	Pol/Phase
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	51.84	22.75	-0.63	22.12	40.00	-17.88 Peak	HORIZONTAL
2	101.64	22.48	0.00	22.48	43.50	-21.02 Peak	HORIZONTAL
3	366.82	25.30	2.00	27.30	46.00	-18.70 Peak	HORIZONTAL
4	495.93	28.98	1.00	29.98	46.00	-16.02 Peak	HORIZONTAL
5	699.30	32.72	1.00	33.72	46.00	-12.28 Peak	HORIZONTAL
6 pp	884.50	34.70	3.50	38.20	46.00	-7.80 Peak	HORIZONTAL

6#: 30MHz~1GHz		
Test mode:	Transmitting	Vertical



	Read Freq	Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	42.15	24.33	-1.78	22.55	40.00	-17.45	Peak	VERTICAL
2	56.99	22.03	0.00	22.03	40.00	-17.97	Peak	VERTICAL
3	99.18	21.12	0.00	21.12	43.50	-22.38	Peak	VERTICAL
4	321.06	26.11	2.00	28.11	46.00	-17.89	Peak	VERTICAL
5	570.61	31.72	1.00	32.72	46.00	-13.28	Peak	VERTICAL
6 pp	878.32	35.05	3.50	38.55	46.00	-7.45	Peak	VERTICAL

Remark:

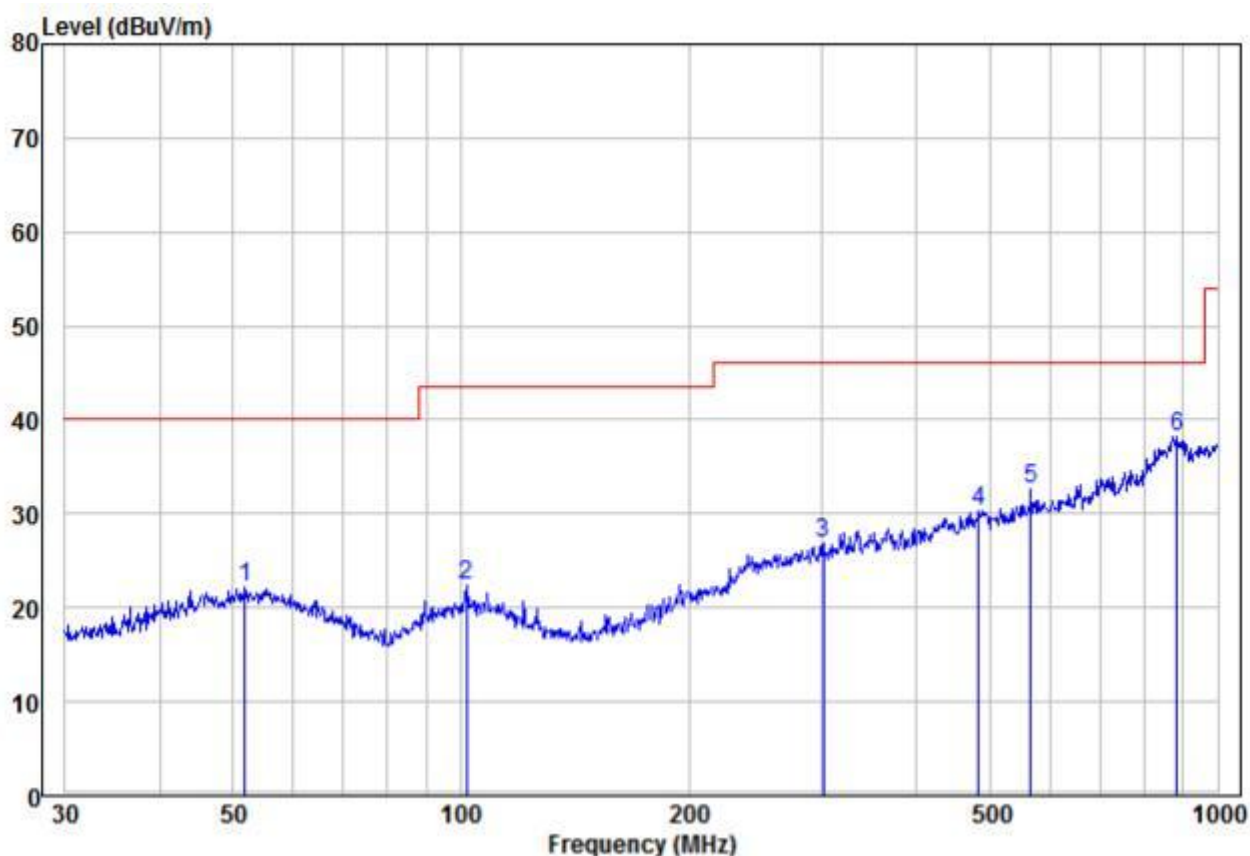
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Level = Read Level + Factor,

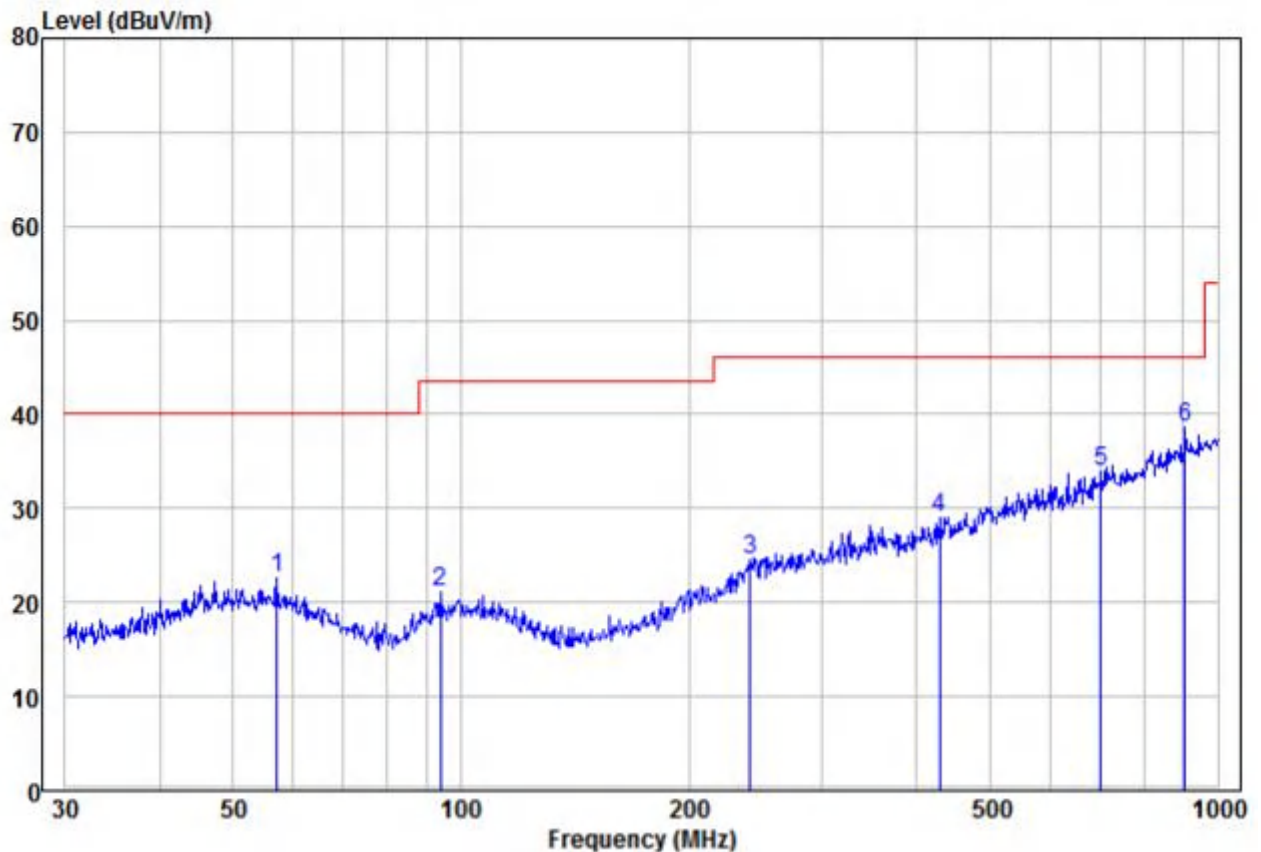
Over Limit=Level-Limit Line.

Test mode:	Transmitting	Horizontal
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	Read			Limit	Over		
Freq	Level	Factor	Level	Line	Limit	Remark	Pol/Phase
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	51.84	22.75	-0.63	22.12	40.00	-17.88 Peak	HORIZONTAL
2	101.64	22.48	0.00	22.48	43.50	-21.02 Peak	HORIZONTAL
3	301.42	24.83	2.00	26.83	46.00	-19.17 Peak	HORIZONTAL
4	483.91	29.38	1.00	30.38	46.00	-15.62 Peak	HORIZONTAL
5	566.62	31.62	1.00	32.62	46.00	-13.38 Peak	HORIZONTAL
6 pp	884.50	34.70	3.50	38.20	46.00	-7.80 Peak	HORIZONTAL

7#: 30MHz~1GHz		
Test mode:	Transmitting	Vertical



	Read Freq	Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	57.19	22.66	0.00	22.66	40.00	-17.34	Peak	VERTICAL
2	94.10	21.22	0.00	21.22	43.50	-22.28	Peak	VERTICAL
3	240.83	22.61	1.83	24.44	46.00	-21.56	Peak	VERTICAL
4	429.52	27.99	1.00	28.99	46.00	-17.01	Peak	VERTICAL
5	701.76	32.86	1.00	33.86	46.00	-12.14	Peak	VERTICAL
6 pp	906.48	36.20	2.35	38.55	46.00	-7.45	Peak	VERTICAL

Remark:

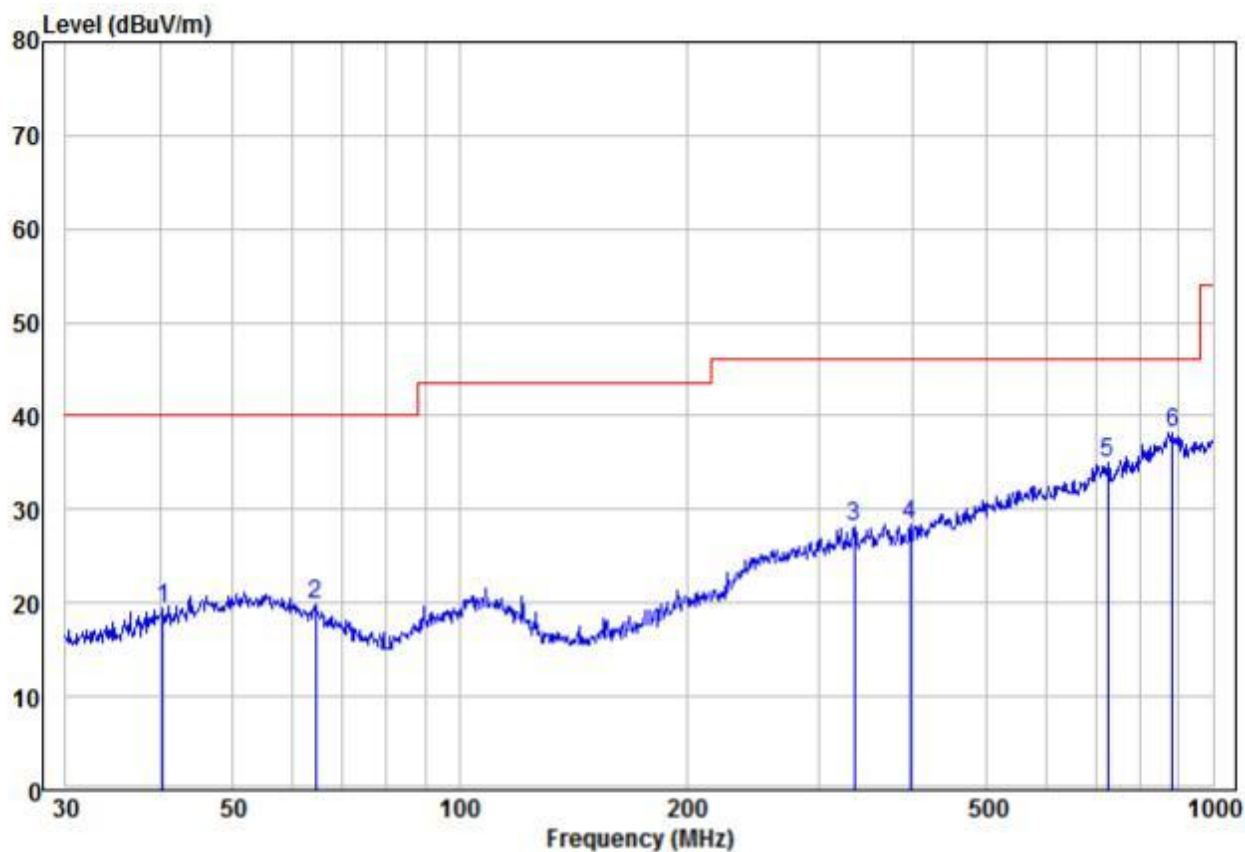
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Level = Read Level + Factor,

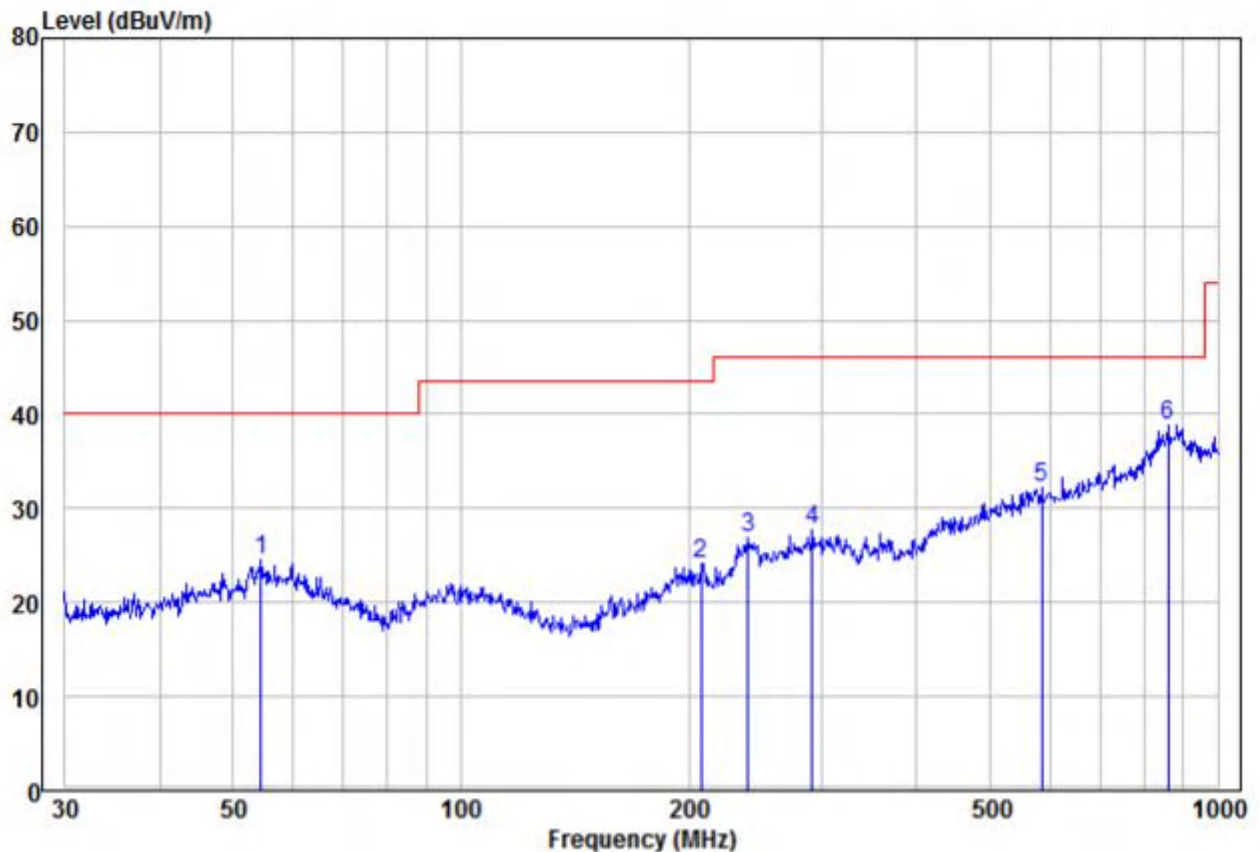
Over Limit=Level-Limit Line.

Test mode:	Transmitting	Horizontal
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	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	40.42	21.41	-1.96	19.45	40.00	-20.55	Peak	HORIZONTAL
2	64.43	19.76	0.00	19.76	40.00	-20.24	Peak	HORIZONTAL
3	333.69	26.11	2.00	28.11	46.00	-17.89	Peak	HORIZONTAL
4	396.24	27.43	1.00	28.43	46.00	-17.57	Peak	HORIZONTAL
5	724.26	33.93	1.00	34.93	46.00	-11.07	Peak	HORIZONTAL
6 pp	884.50	34.70	3.50	38.20	46.00	-7.80	Peak	HORIZONTAL

8#: 30MHz~1GHz		
Test mode:	Transmitting	Vertical



	Read Freq	Level	Factor	Level	Limit	Over	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	54.45	24.57	-0.11	24.46	40.00	-15.54	Peak	VERTICAL
2	207.85	24.17	0.00	24.17	43.50	-19.33	Peak	VERTICAL
3	239.99	25.05	1.80	26.85	46.00	-19.15	Peak	VERTICAL
4	291.04	25.72	2.00	27.72	46.00	-18.28	Peak	VERTICAL
5	584.79	31.63	0.50	32.13	46.00	-13.87	Peak	VERTICAL
6 pp	860.04	35.40	3.50	38.90	46.00	-7.10	Peak	VERTICAL

Remark:

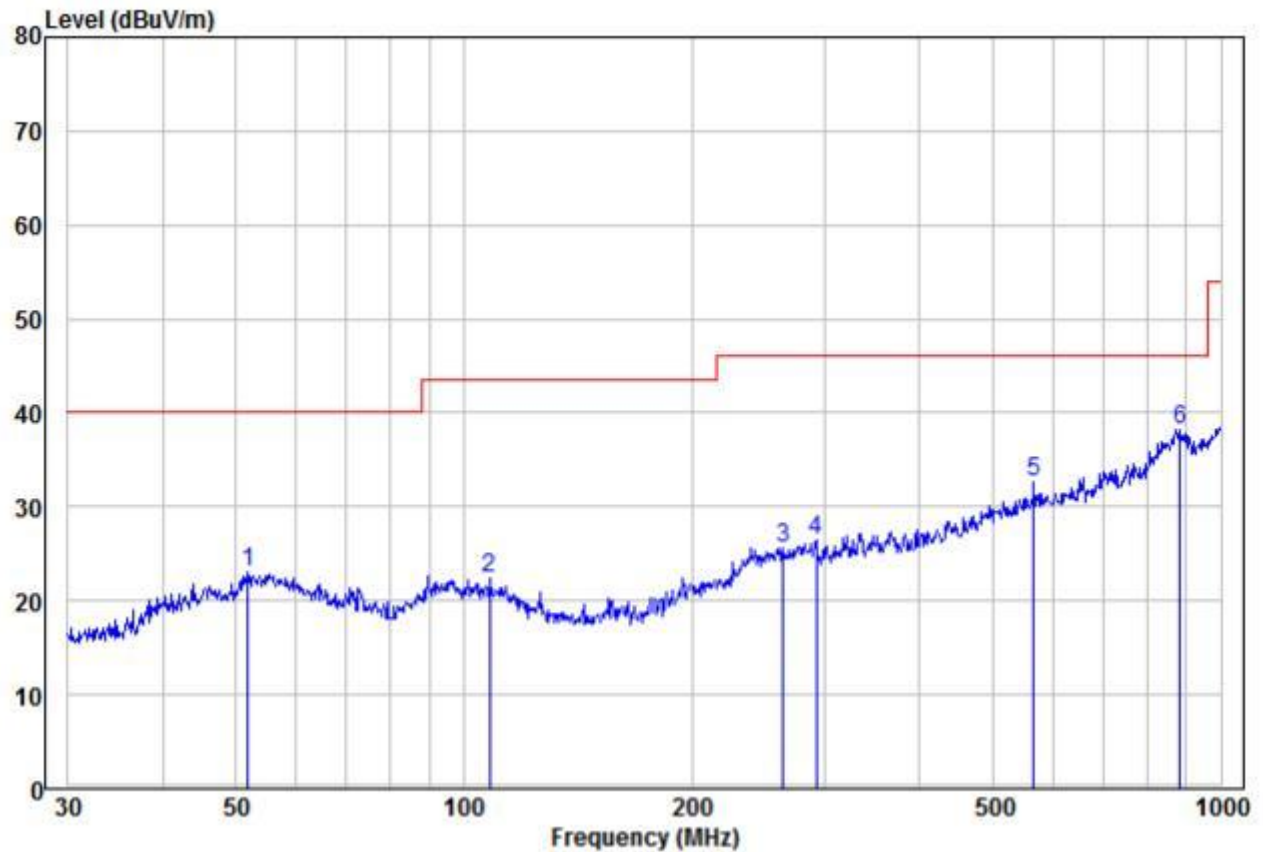
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Factor= Antenna Factor + Cable Factor – Preamplifier Factor,

Level = Read Level + Factor,

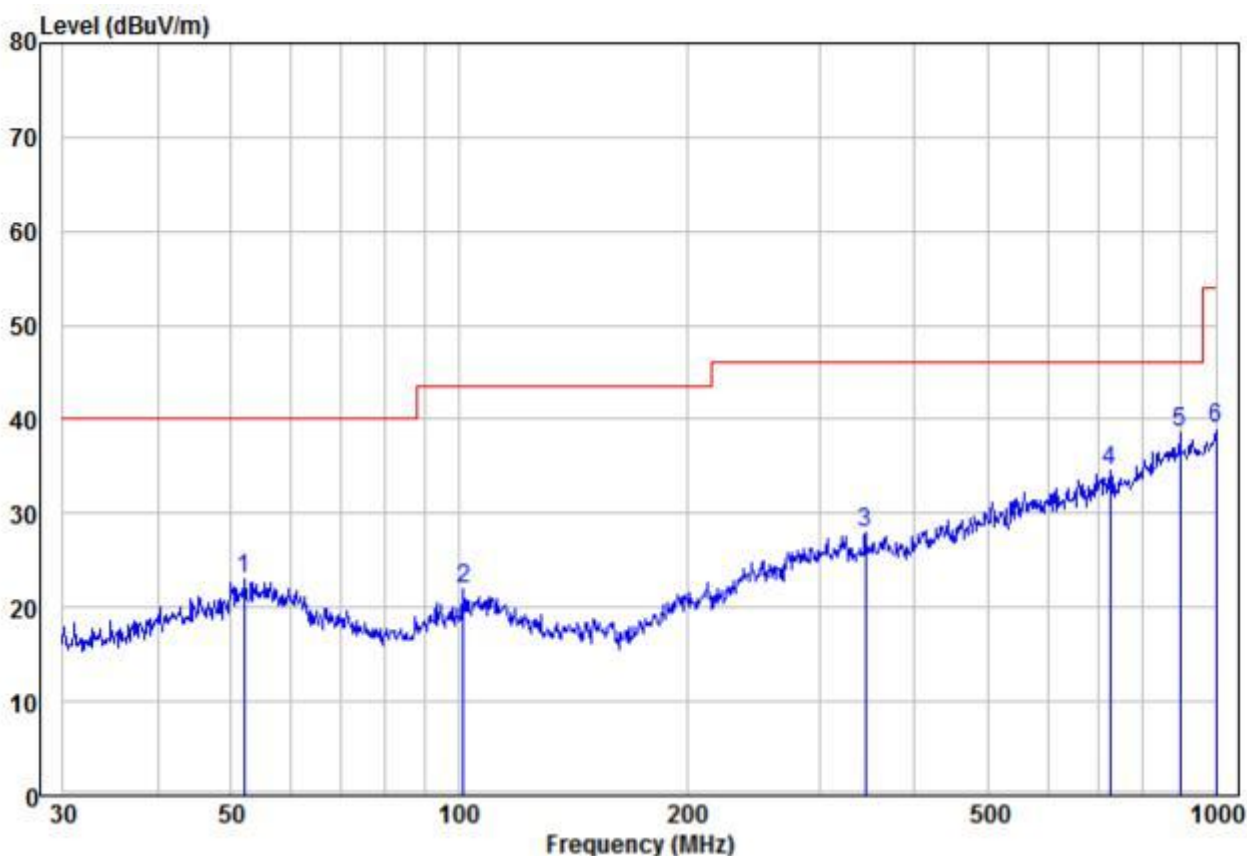
Over Limit=Level-Limit Line.

Test mode:	Transmitting	Horizontal
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	Read Freq	Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	51.84	23.75	-0.63	23.12	40.00	-16.88	Peak	HORIZONTAL
2	108.27	22.47	0.00	22.47	43.50	-21.03	Peak	HORIZONTAL
3	263.82	23.56	2.00	25.56	46.00	-20.44	Peak	HORIZONTAL
4	292.06	24.49	2.00	26.49	46.00	-19.51	Peak	HORIZONTAL
5	566.62	31.62	1.00	32.62	46.00	-13.38	Peak	HORIZONTAL
6 pp	884.50	34.70	3.50	38.20	46.00	-7.80	Peak	HORIZONTAL

9#: 30MHz~1GHz		
Test mode:	Transmitting	Vertical



	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	52.03	23.70	-0.59	23.11	40.00	-16.89	Peak	VERTICAL
2	101.29	21.91	0.00	21.91	43.50	-21.59	Peak	VERTICAL
3	344.39	25.96	2.00	27.96	46.00	-18.04	Peak	VERTICAL
4	724.26	33.48	1.00	34.48	46.00	-11.52	Peak	VERTICAL
5 pp	897.00	35.39	3.30	38.69	46.00	-7.31	Peak	VERTICAL
6	1000.00	37.03	2.00	39.03	54.00	-14.97	Peak	VERTICAL

Remark:

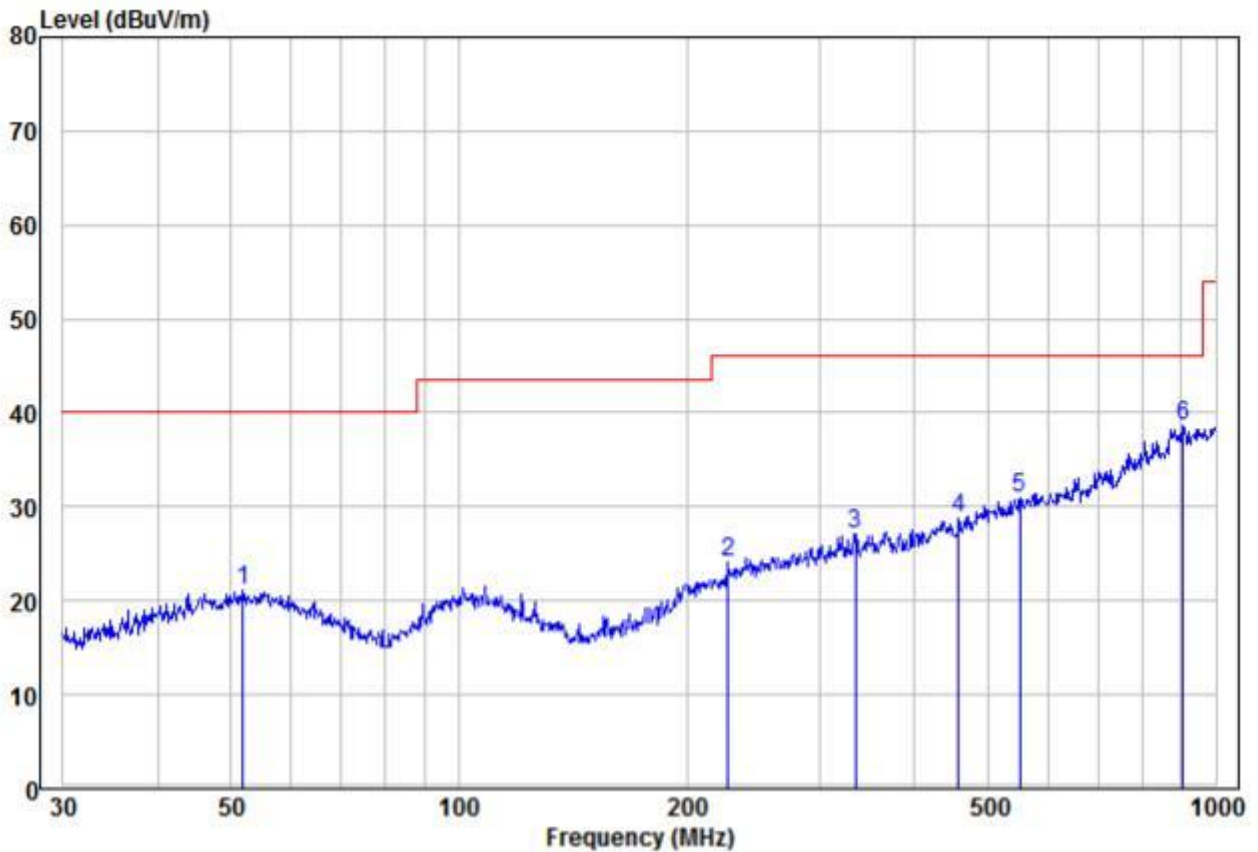
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Factor= Antenna Factor + Cable Factor – Preamplifier Factor,

Level = Read Level + Factor,

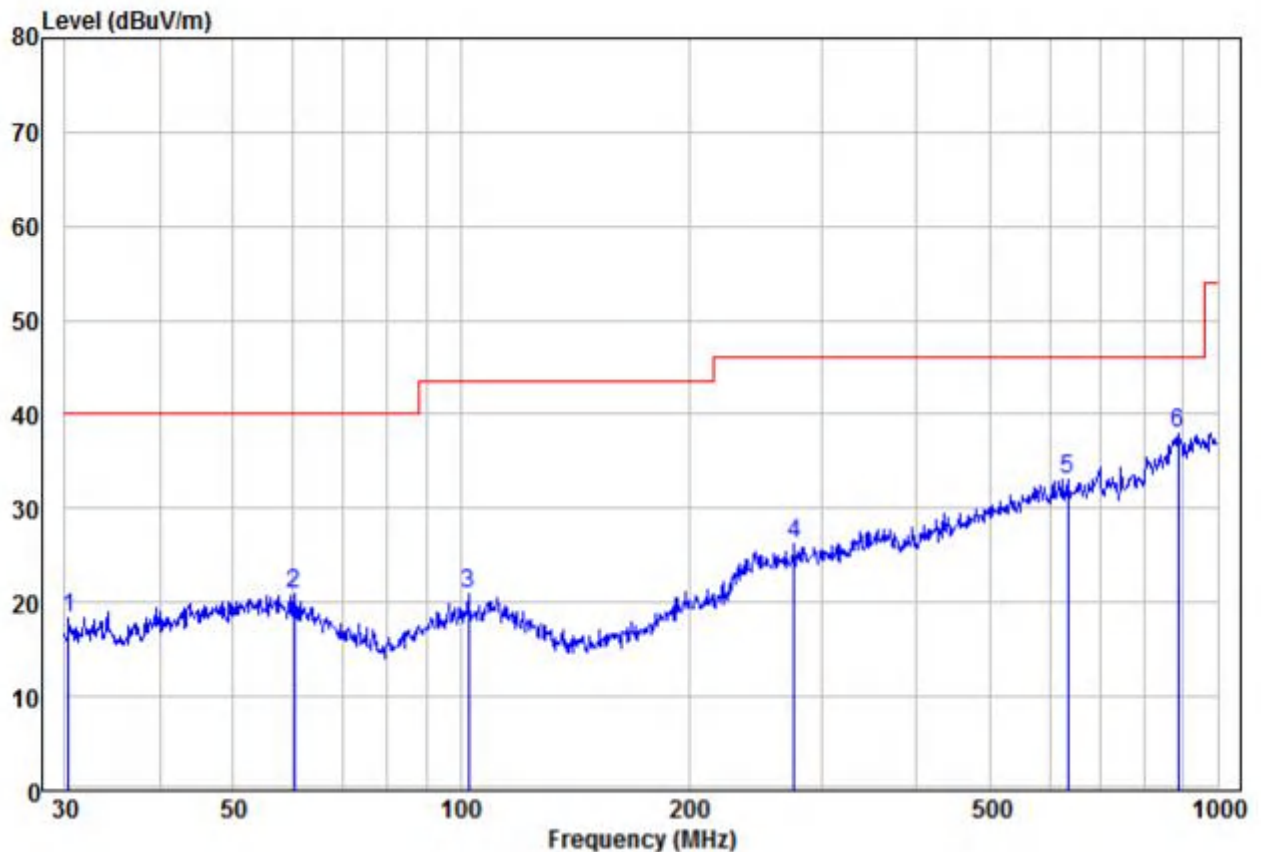
Over Limit=Level-Limit Line.

Test mode:	Transmitting	Horizontal
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	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	51.84	21.75	-0.63	21.12	40.00	-18.88	Peak	HORIZONTAL
2	226.89	23.52	0.69	24.21	46.00	-21.79	Peak	HORIZONTAL
3	333.69	25.11	2.00	27.11	46.00	-18.89	Peak	HORIZONTAL
4	457.51	27.74	1.00	28.74	46.00	-17.26	Peak	HORIZONTAL
5	550.95	29.91	1.00	30.91	46.00	-15.09	Peak	HORIZONTAL
6 pp	906.48	36.24	2.35	38.59	46.00	-7.41	Peak	HORIZONTAL

10#: 30MHz~1GHz		
Test mode:	Transmitting	Vertical



	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	30.32	20.77	-2.47	18.30	40.00	-21.70	Peak	VERTICAL
2	60.28	20.83	0.00	20.83	40.00	-19.17	Peak	VERTICAL
3	102.36	20.81	0.00	20.81	43.50	-22.69	Peak	VERTICAL
4	276.12	24.23	2.00	26.23	46.00	-19.77	Peak	VERTICAL
5	633.91	32.56	0.50	33.06	46.00	-12.94	Peak	VERTICAL
6 pp	887.61	34.54	3.50	38.04	46.00	-7.96	Peak	VERTICAL

Remark:

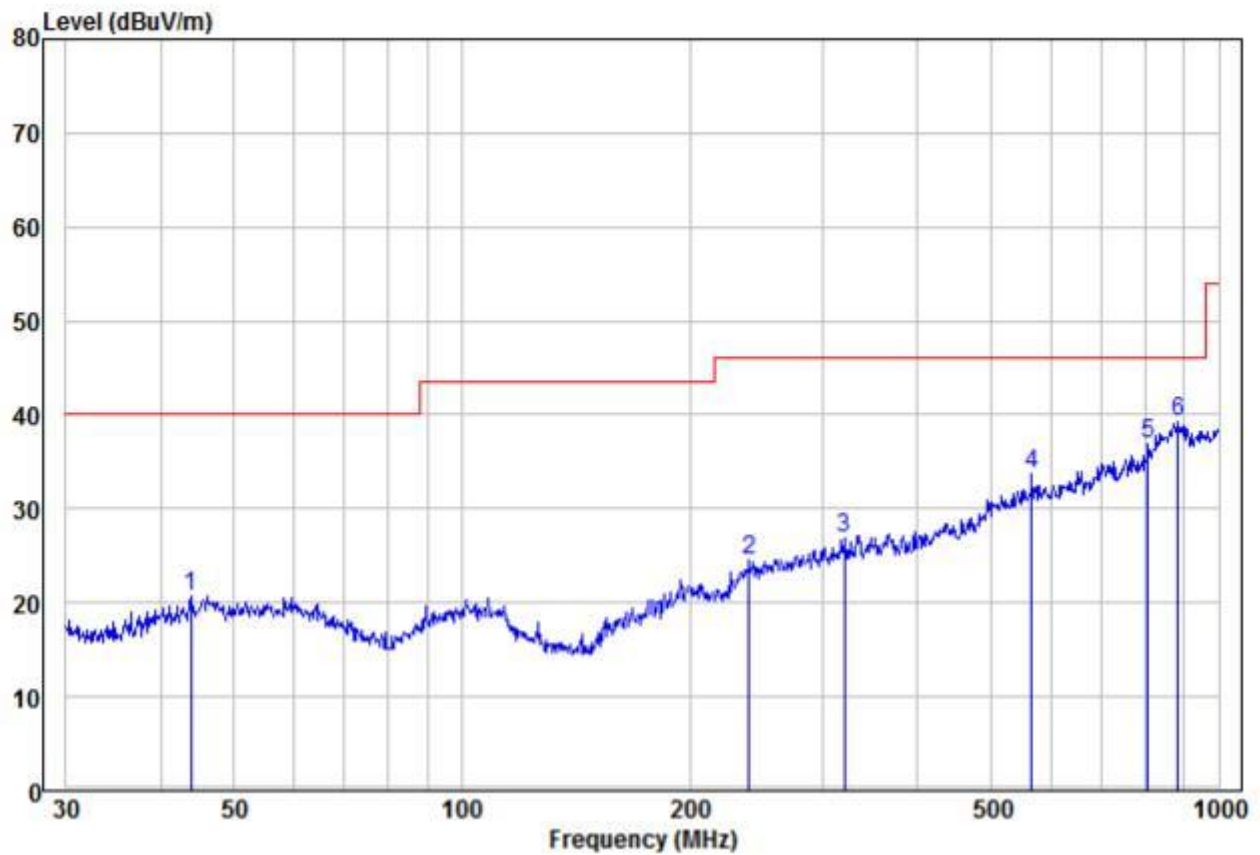
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Factor= Antenna Factor + Cable Factor – Preamplifier Factor,

Level = Read Level + Factor,

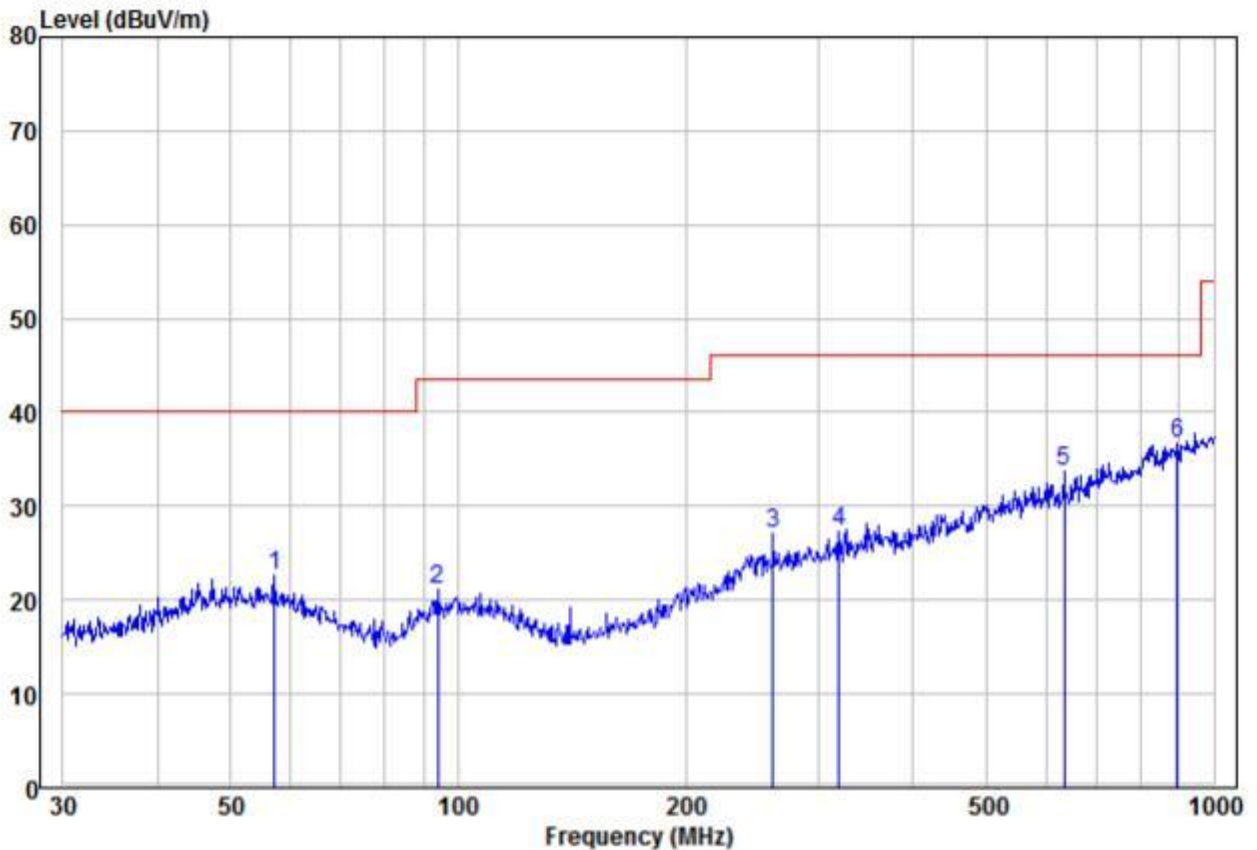
Over Limit=Level-Limit Line.

Test mode:	Transmitting	Horizontal
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	Read			Limit	Over		
Freq	Level	Factor	Level	Line	Limit	Remark	Pol/Phase
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	43.81	22.31	-1.62	20.69	40.00	-19.31 Peak	HORIZONTAL
2	239.99	22.76	1.80	24.56	46.00	-21.44 Peak	HORIZONTAL
3	319.94	24.89	2.00	26.89	46.00	-19.11 Peak	HORIZONTAL
4	566.62	32.62	1.00	33.62	46.00	-12.38 Peak	HORIZONTAL
5	807.43	34.31	2.50	36.81	46.00	-9.19 Peak	HORIZONTAL
6 pp	884.50	35.70	3.50	39.20	46.00	-6.80 Peak	HORIZONTAL

11#: 30MHz~1GHz		
Test mode:	Transmitting	Vertical



	Read Freq	Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	57.19	22.66	0.00	22.66	40.00	-17.34	Peak	VERTICAL
2	94.10	21.22	0.00	21.22	43.50	-22.28	Peak	VERTICAL
3	261.06	25.16	2.00	27.16	46.00	-18.84	Peak	VERTICAL
4	318.82	25.25	2.00	27.25	46.00	-18.75	Peak	VERTICAL
5	633.91	33.22	0.50	33.72	46.00	-12.28	Peak	VERTICAL
6 pp	893.86	33.11	3.50	36.61	46.00	-9.39	Peak	VERTICAL

Remark:

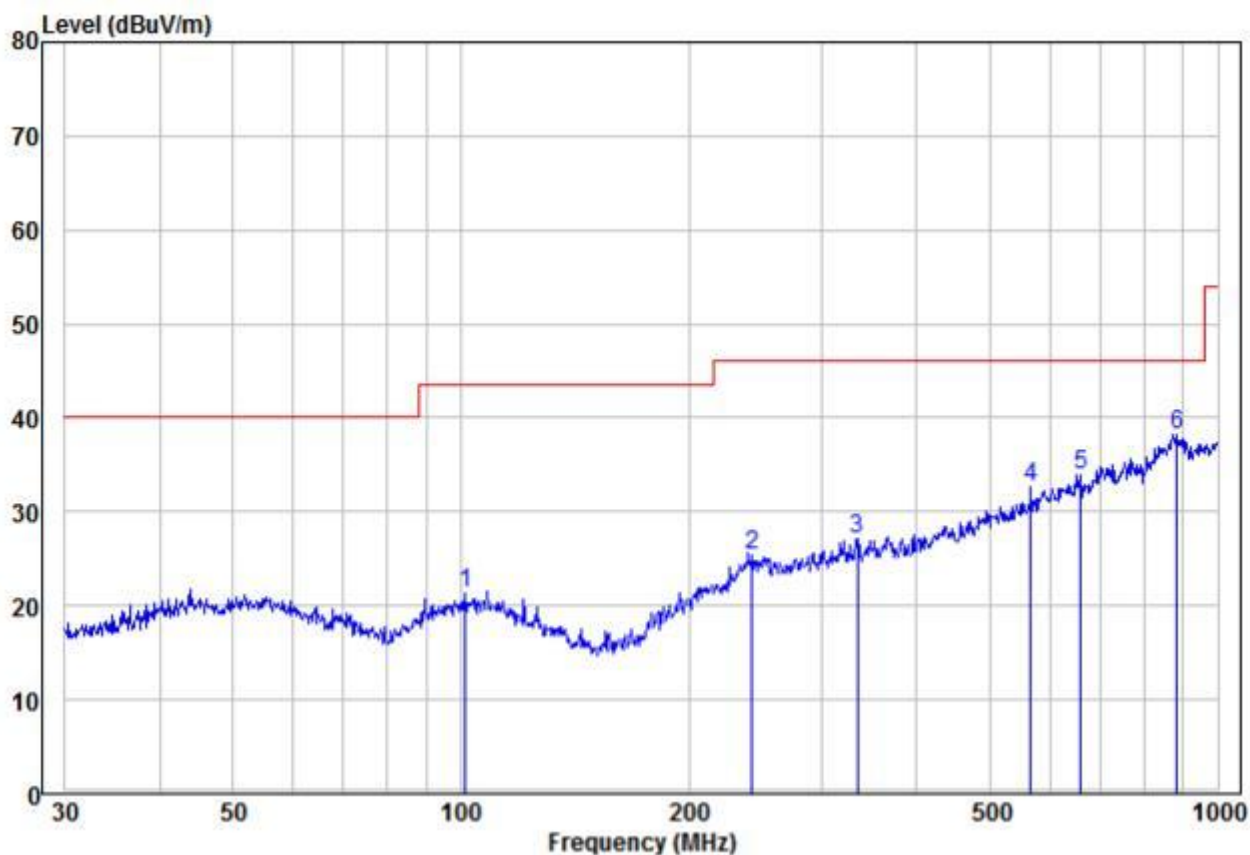
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Factor= Antenna Factor + Cable Factor – Preamplifier Factor,

Level = Read Level + Factor,

Over Limit=Level-Limit Line.

Test mode:	Transmitting	Horizontal
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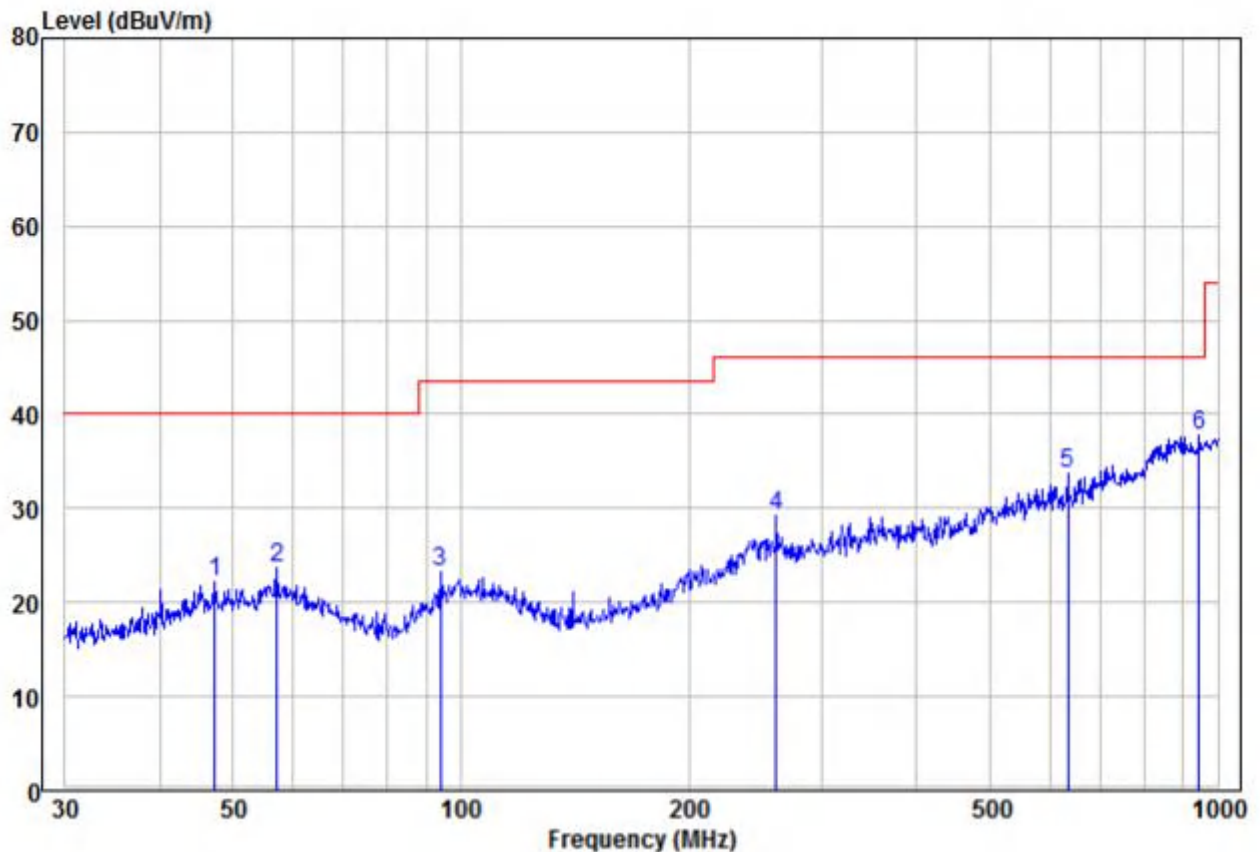
	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	101.29	21.27	0.00	21.27	43.50	-22.23	Peak	HORIZONTAL
2	242.53	23.46	1.90	25.36	46.00	-20.64	Peak	HORIZONTAL
3	333.69	25.11	2.00	27.11	46.00	-18.89	Peak	HORIZONTAL
4	566.62	31.62	1.00	32.62	46.00	-13.38	Peak	HORIZONTAL
5	658.84	33.49	0.50	33.99	46.00	-12.01	Peak	HORIZONTAL
6 pp	884.50	34.70	3.50	38.20	46.00	-7.80	Peak	HORIZONTAL

12#:
30MHz~1GHz

Test mode:

Transmitting

Vertical



	Read			Limit	Over		
Freq	Level	Factor	Level	Line	Limit	Remark	Pol/Phase
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	47.33	23.35	-1.27	22.08	40.00	-17.92 Peak	VERTICAL
2	57.19	23.66	0.00	23.66	40.00	-16.34 Peak	VERTICAL
3	94.10	23.22	0.00	23.22	43.50	-20.28 Peak	VERTICAL
4	261.06	27.16	2.00	29.16	46.00	-16.84 Peak	VERTICAL
5	633.91	33.22	0.50	33.72	46.00	-12.28 Peak	VERTICAL
6 pp	945.44	35.72	2.00	37.72	46.00	-8.28 Peak	VERTICAL

Remark:

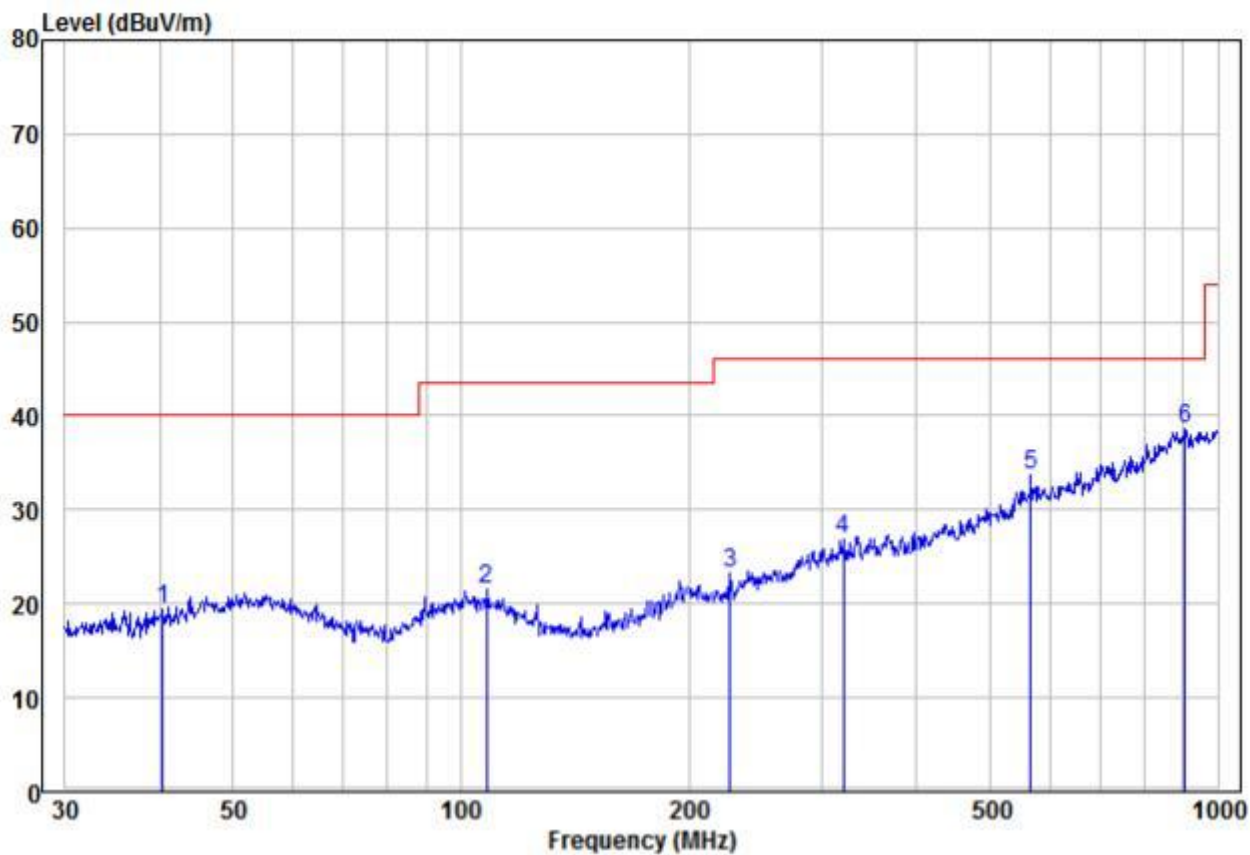
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Factor= Antenna Factor + Cable Factor – Preamplifier Factor,

Level = Read Level + Factor,

Over Limit=Level-Limit Line.

Test mode:	Transmitting	Horizontal
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	Read			Limit	Over		
Freq	Level	Factor	Level	Line	Limit	Remark	Pol/Phase
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	40.42	21.41	-1.96	19.45	40.00	-20.55 Peak	HORIZONTAL
2	108.27	21.47	0.00	21.47	43.50	-22.03 Peak	HORIZONTAL
3	226.89	22.52	0.69	23.21	46.00	-22.79 Peak	HORIZONTAL
4	319.94	24.89	2.00	26.89	46.00	-19.11 Peak	HORIZONTAL
5	566.62	32.62	1.00	33.62	46.00	-12.38 Peak	HORIZONTAL
6 pp	906.48	36.24	2.35	38.59	46.00	-7.41 Peak	HORIZONTAL

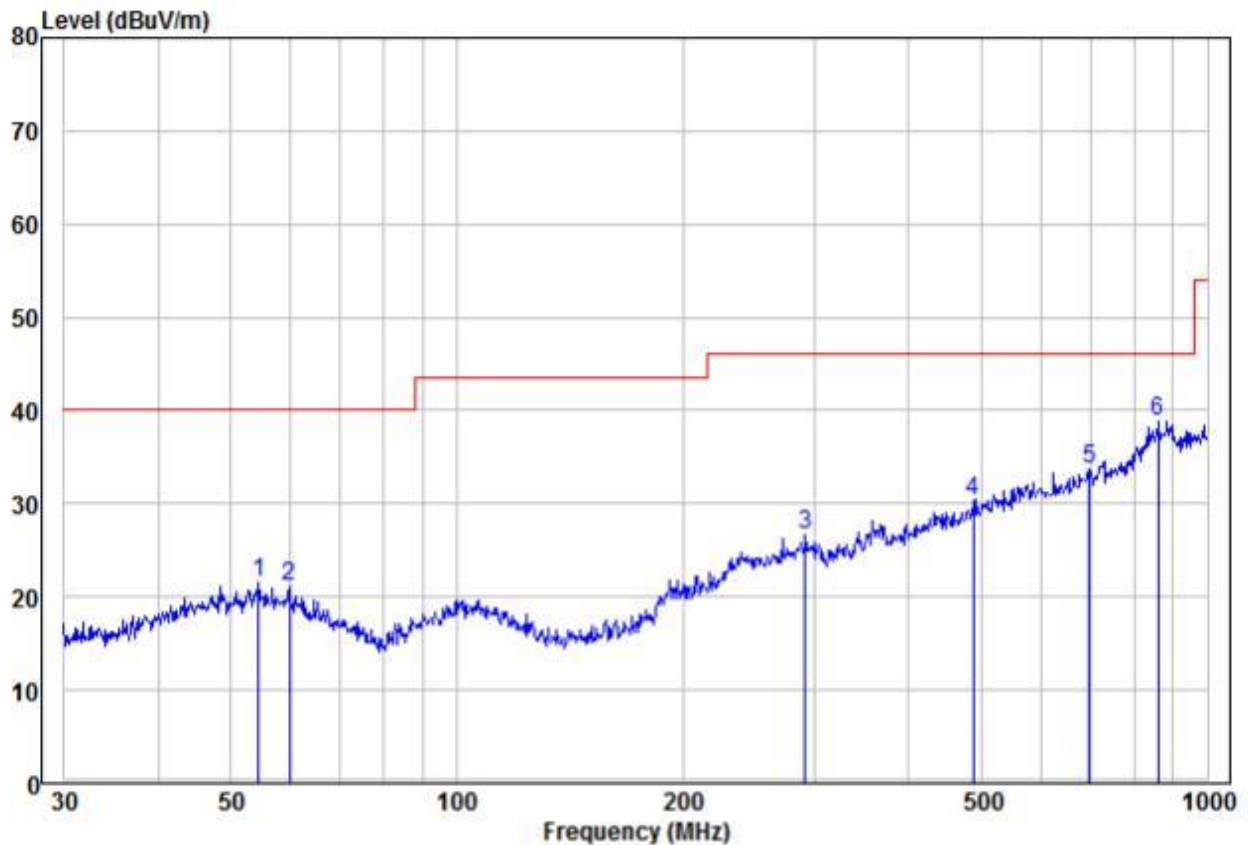
13#:

30MHz~1GHz

Test mode:

Transmitting

Vertical



	Read		Limit	Over			
Freq	Level	Factor	Level	Line	Limit	Remark	Pol/Phase
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	54.45	21.57	-0.11	21.46	40.00	-18.54 Peak	VERTICAL
2	59.86	21.08	0.00	21.08	40.00	-18.92 Peak	VERTICAL
3	291.04	24.72	2.00	26.72	46.00	-19.28 Peak	VERTICAL
4	487.32	29.29	1.00	30.29	46.00	-15.71 Peak	VERTICAL
5	696.86	32.69	1.00	33.69	46.00	-12.31 Peak	VERTICAL
6 pp	860.04	35.40	3.50	38.90	46.00	-7.10 Peak	VERTICAL

Remark:

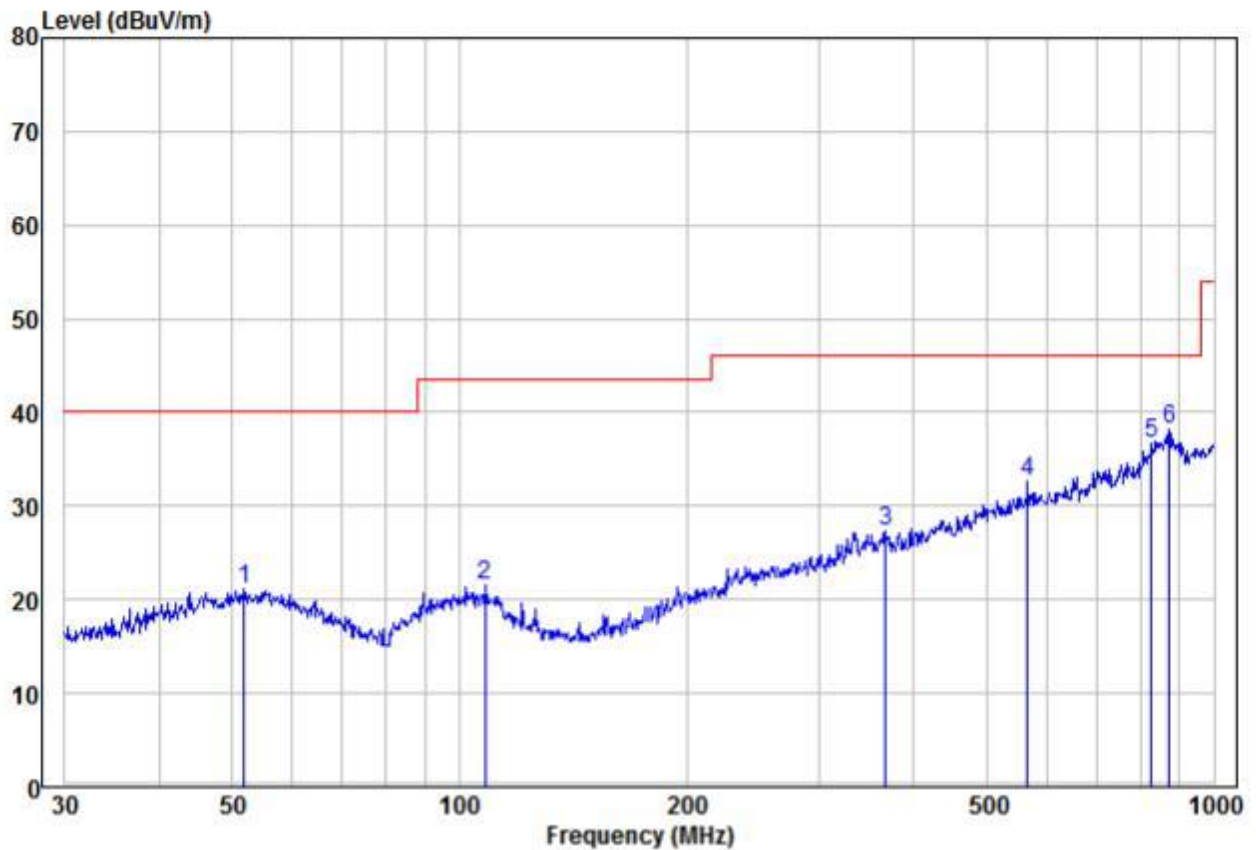
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Factor= Antenna Factor + Cable Factor – Preamplifier Factor,

Level = Read Level + Factor,

Over Limit=Level-Limit Line.

Test mode:	Transmitting	Horizontal
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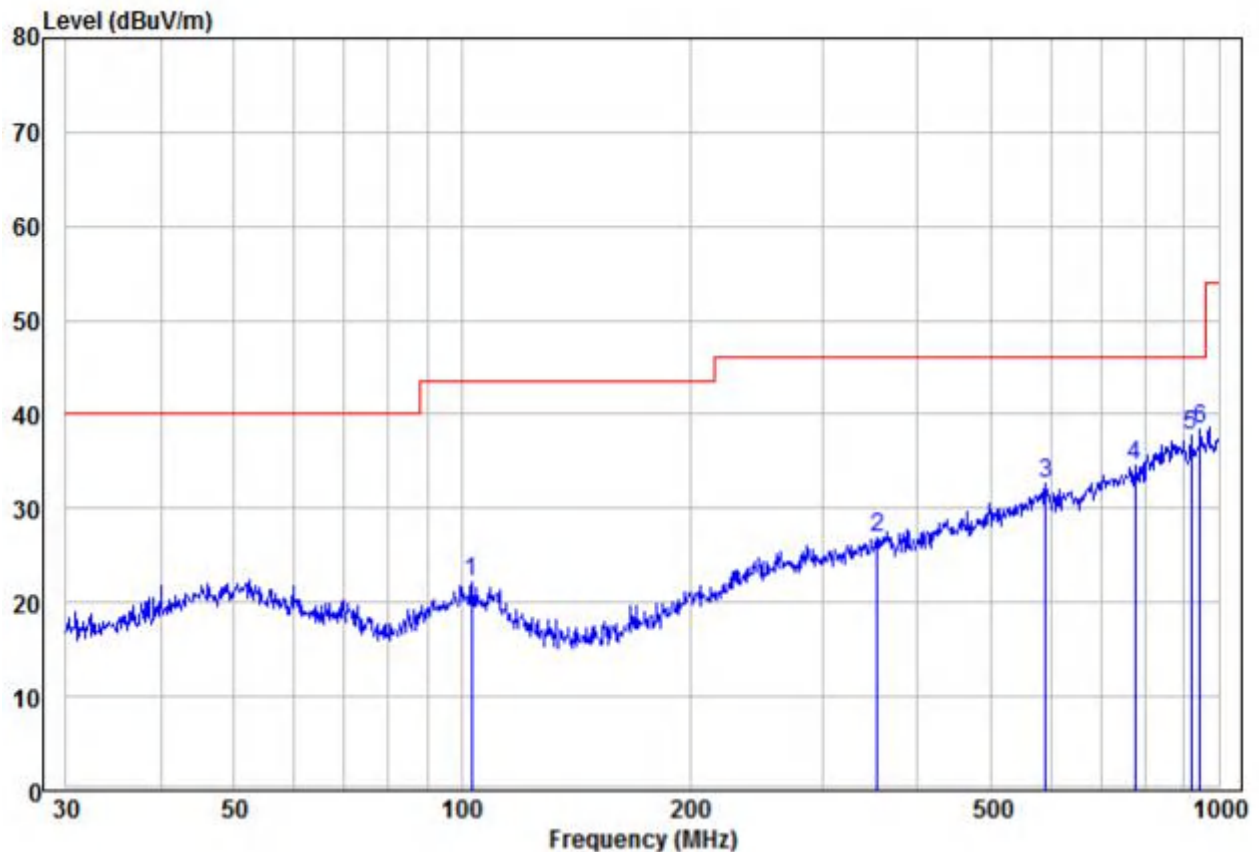
	Read		Limit	Over			
	Freq	Level	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Pol/Phase
1	51.84	21.75	-0.63	21.12	40.00	-18.88	Peak
2	108.27	21.47	0.00	21.47	43.50	-22.03	Peak
3	366.82	25.30	2.00	27.30	46.00	-18.70	Peak
4	566.62	31.62	1.00	32.62	46.00	-13.38	Peak
5	827.49	33.73	3.00	36.73	46.00	-9.27	Peak
6 pp	872.18	34.63	3.50	38.13	46.00	-7.87	Peak

14#:
30MHz~1GHz

Test mode:

Transmitting

Vertical



		Read			Limit	Over		
	Freq	Level	Factor	Level	Line	Limit	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	103.08	22.28	0.00	22.28	43.50	-21.22	Peak	VERTICAL
2	354.18	24.85	2.00	26.85	46.00	-19.15	Peak	VERTICAL
3	590.97	32.14	0.50	32.64	46.00	-13.36	Peak	VERTICAL
4	774.16	33.02	1.50	34.52	46.00	-11.48	Peak	VERTICAL
5	919.29	35.68	2.00	37.68	46.00	-8.32	Peak	VERTICAL
6 pp	945.44	36.31	2.00	38.31	46.00	-7.69	Peak	VERTICAL

Remark:

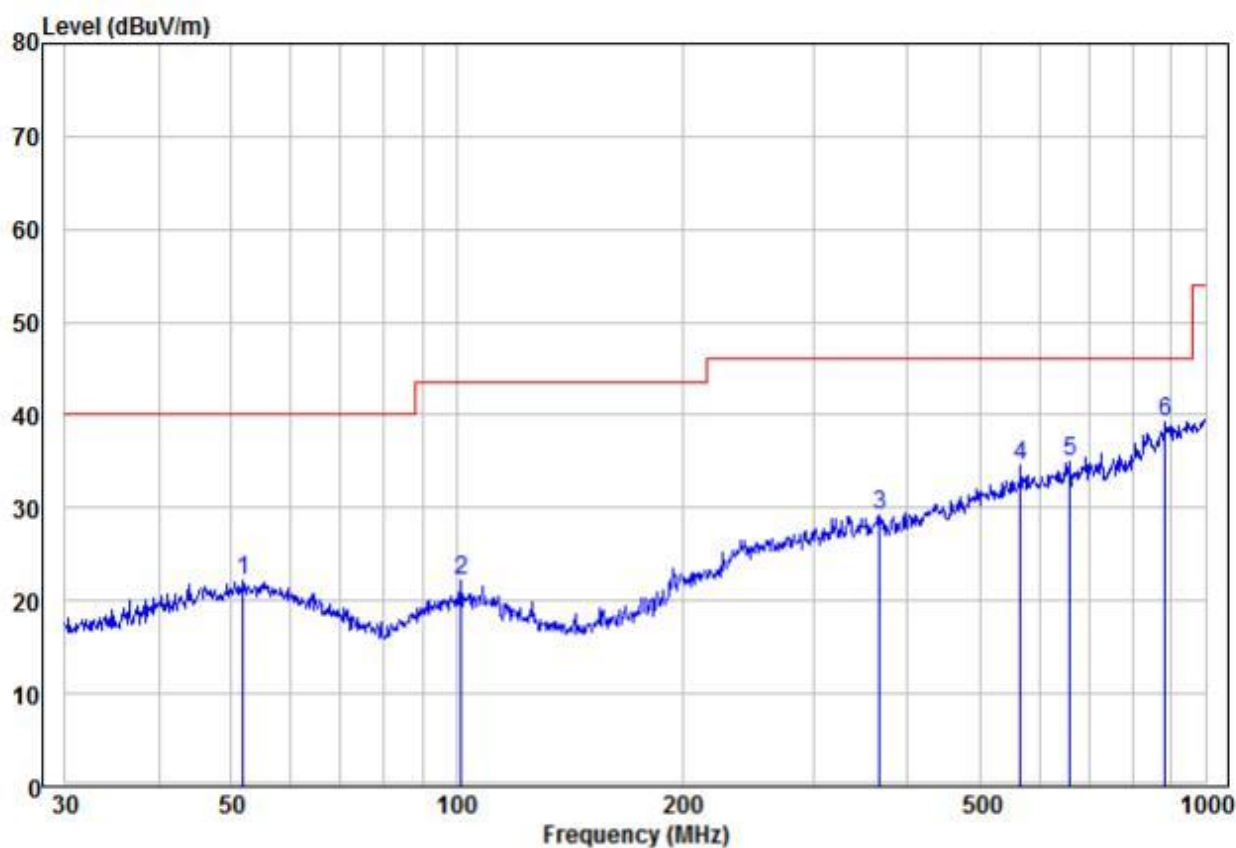
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Factor= Antenna Factor + Cable Factor – Preamplifier Factor,

Level = Read Level + Factor,

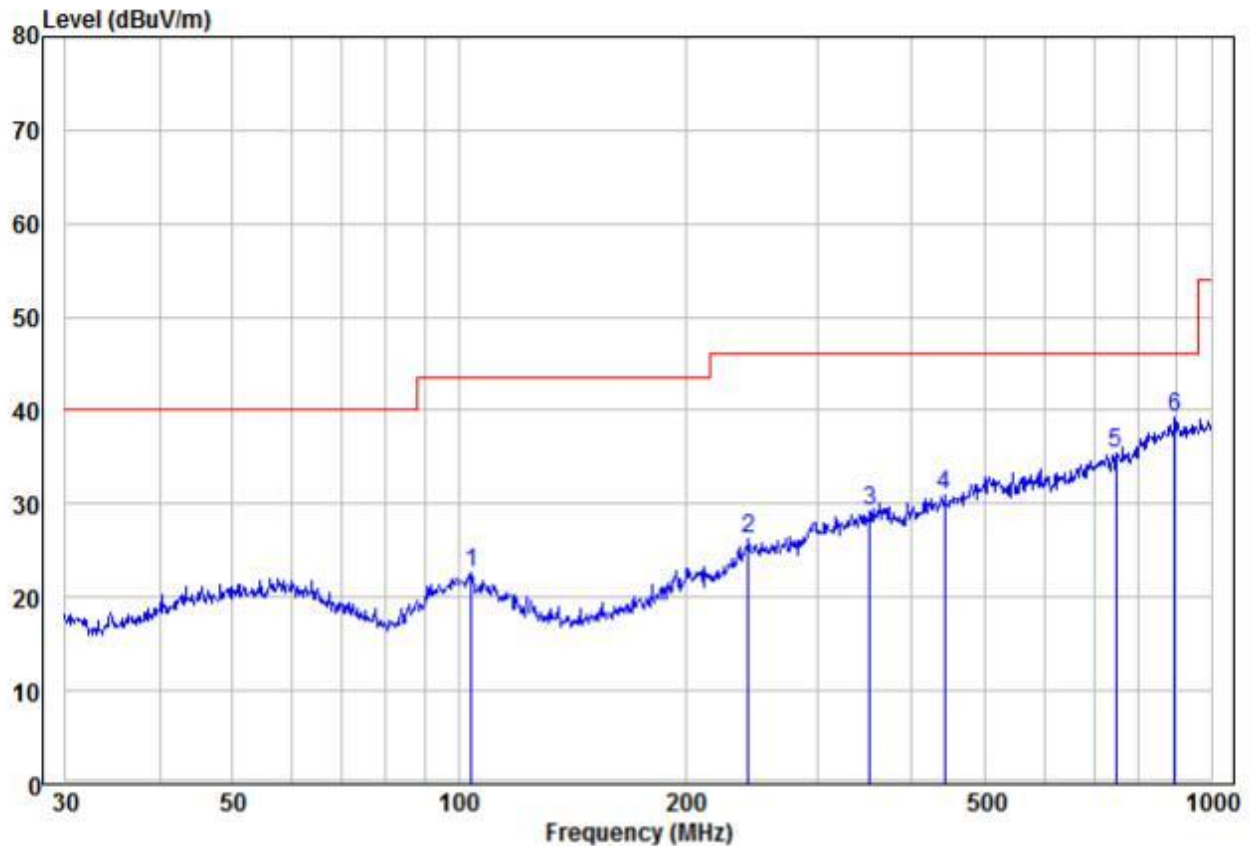
Over Limit=Level-Limit Line.

Test mode:	Transmitting	Horizontal
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	Read Freq	Level dBuV	Factor dB/m	Level dBuV/m	Limit Line dBuV/m	Over- Limit dB	Remark	Pol/Phase
	MHz							
1	51.84	22.75	-0.63	22.12	40.00	-17.88	Peak	HORIZONTAL
2	101.29	22.27	0.00	22.27	43.50	-21.23	Peak	HORIZONTAL
3	366.82	27.30	2.00	29.30	46.00	-16.70	Peak	HORIZONTAL
4	566.62	33.62	1.00	34.62	46.00	-11.38	Peak	HORIZONTAL
5	658.84	34.49	0.50	34.99	46.00	-11.01	Peak	HORIZONTAL
6 pp	884.50	35.70	3.50	39.20	46.00	-6.80	Peak	HORIZONTAL

15#: 30MHz~1GHz		
Test mode:	Transmitting	Vertical



	Freq	Read		Limit	Over			
	MHz	Level	Factor	Level	Line	Limit	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	103.81	22.64	0.00	22.64	43.50	-20.86	Peak	VERTICAL
2	242.53	24.42	1.90	26.32	46.00	-19.68	Peak	VERTICAL
3	351.71	27.17	2.00	29.17	46.00	-16.83	Peak	VERTICAL
4	441.74	29.86	1.00	30.86	46.00	-15.14	Peak	VERTICAL
5	747.48	34.02	1.50	35.52	46.00	-10.48	Peak	VERTICAL
6 pp	893.86	35.80	3.50	39.30	46.00	-6.70	Peak	VERTICAL

Remark:

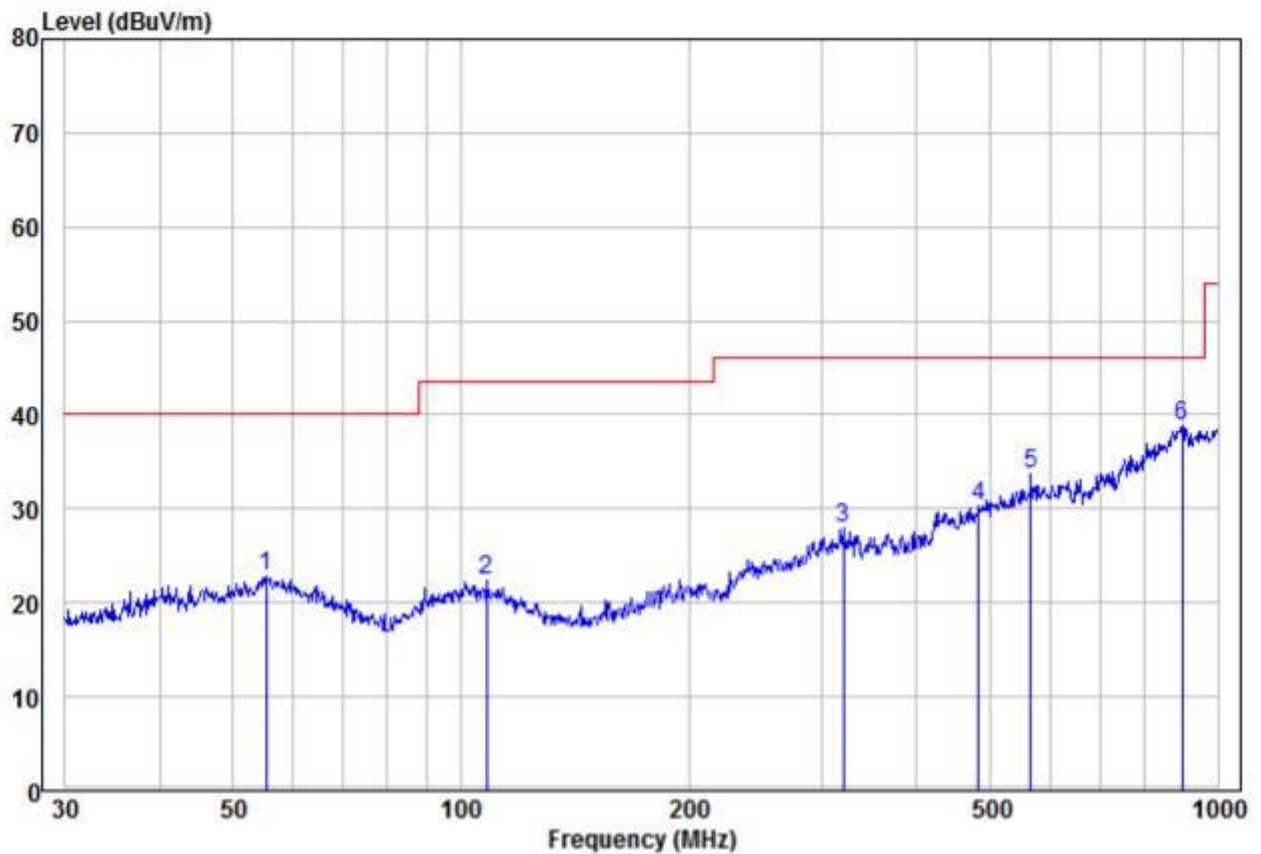
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Factor= Antenna Factor + Cable Factor – Preamplifier Factor,

Level = Read Level + Factor,

Over Limit=Level-Limit Line.

Test mode:	Transmitting	Horizontal
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	Read			Limit	Over		
Freq	Level	Factor	Level	Line	Limit	Remark	Pol/Phase
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	55.22	22.90	0.00	22.90	40.00	-17.10 Peak	HORIZONTAL
2	108.27	22.47	0.00	22.47	43.50	-21.03 Peak	HORIZONTAL
3	319.94	25.89	2.00	27.89	46.00	-18.11 Peak	HORIZONTAL
4	483.91	29.38	1.00	30.38	46.00	-15.62 Peak	HORIZONTAL
5	566.62	32.62	1.00	33.62	46.00	-12.38 Peak	HORIZONTAL
6 pp	897.00	35.45	3.30	38.75	46.00	-7.25 Peak	HORIZONTAL

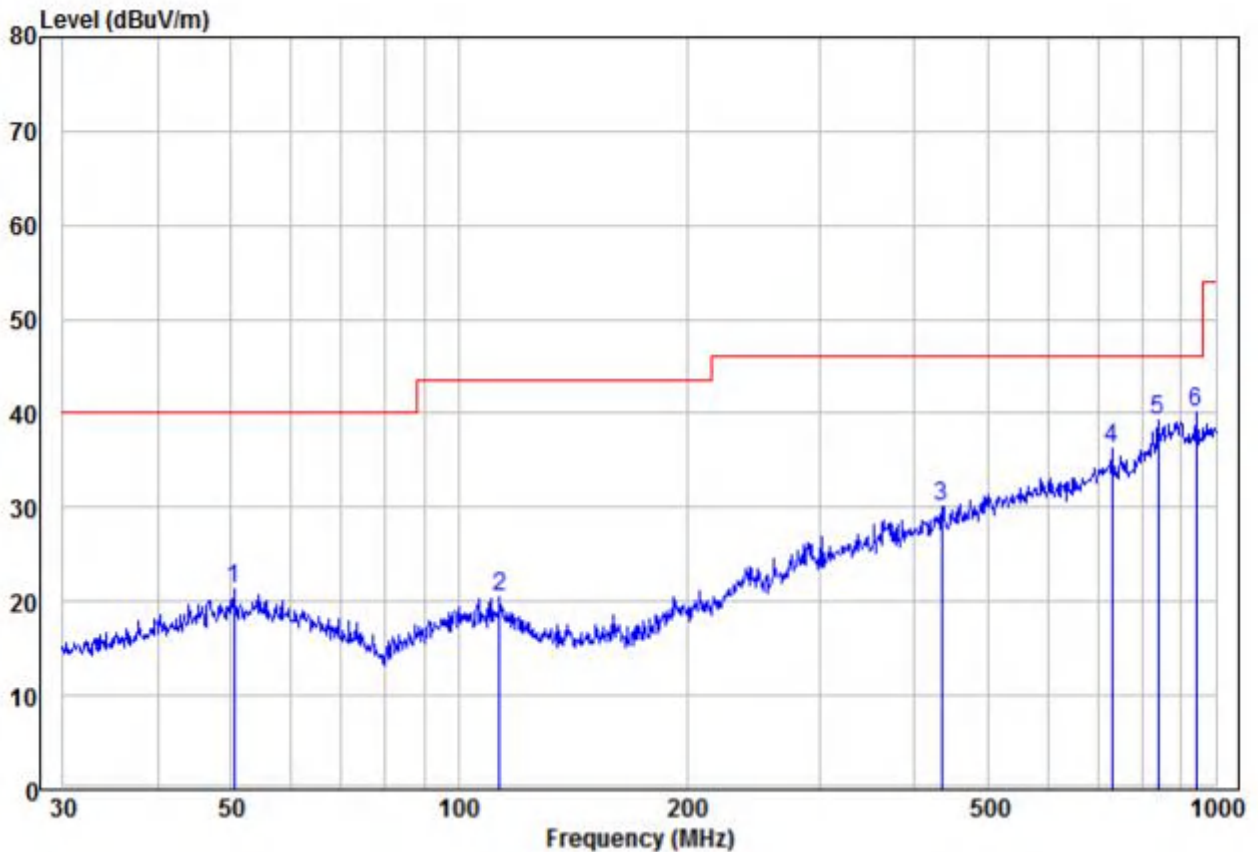
16#:

30MHz~1GHz

Test mode:

Transmitting

Vertical



	Read		Limit	Over			
Freq	Level	Factor	Level	Line	Limit	Remark	Pol/Phase
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	50.41	22.31	-0.92	21.39	40.00	-18.61 Peak	VERTICAL
2	113.32	20.48	0.00	20.48	43.50	-23.02 Peak	VERTICAL
3	434.07	29.10	1.00	30.10	46.00	-15.90 Peak	VERTICAL
4	729.36	35.32	1.00	36.32	46.00	-9.68 Peak	VERTICAL
5	839.18	35.66	3.50	39.16	46.00	-6.84 Peak	VERTICAL
6 pp	942.13	38.02	2.00	40.02	46.00	-5.98 Peak	VERTICAL

Remark:

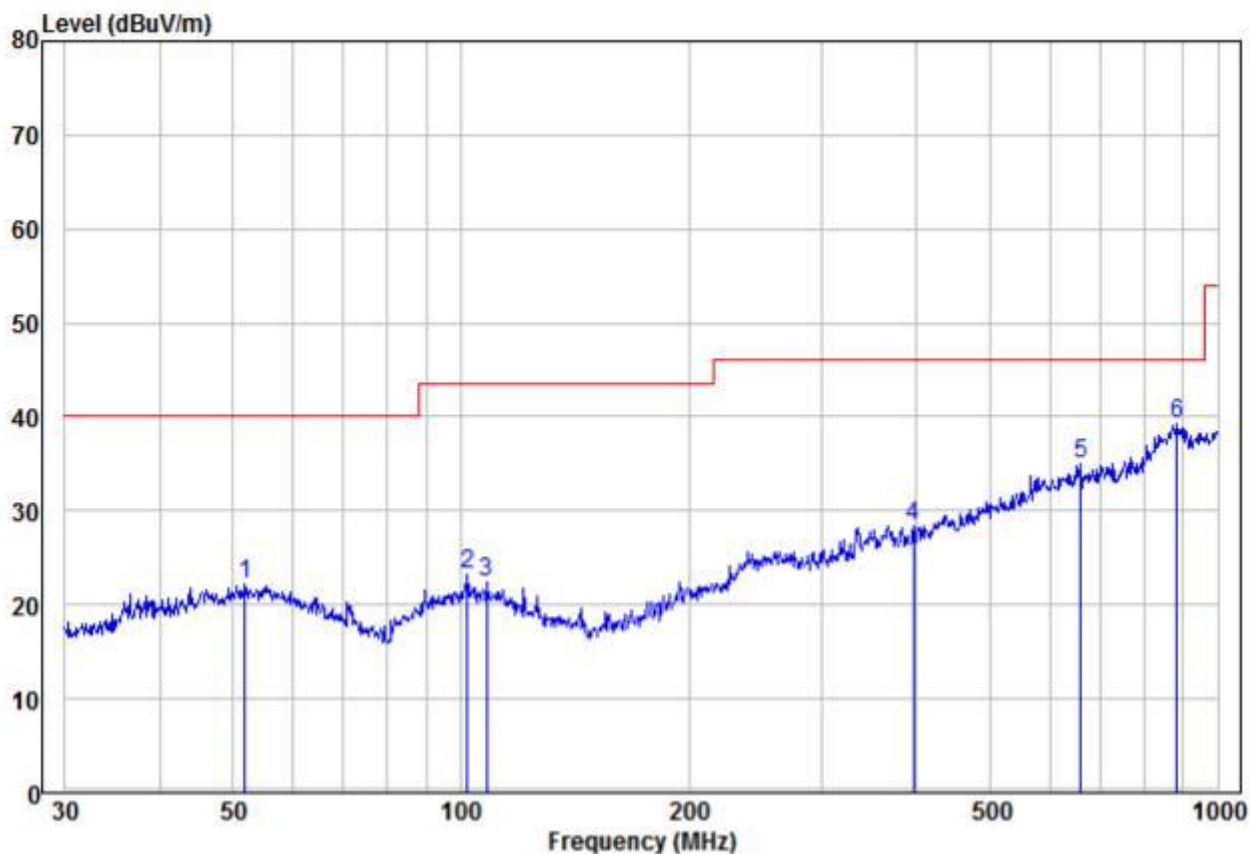
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Factor= Antenna Factor + Cable Factor – Preamplifier Factor,

Level = Read Level + Factor,

Over Limit=Level-Limit Line.

Test mode:	Transmitting	Horizontal
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	Freq	Read		Limit	Over		
	MHz	Level	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	51.84	22.75	-0.63	22.12	40.00	-17.88	Peak
2	102.00	23.35	0.00	23.35	43.50	-20.15	Peak
3	108.27	22.47	0.00	22.47	43.50	-21.03	Peak
4	396.24	27.43	1.00	28.43	46.00	-17.57	Peak
5	658.84	34.49	0.50	34.99	46.00	-11.01	Peak
6 pp	884.50	35.70	3.50	39.20	46.00	-6.80	Peak
							Pol/Phase
							HORIZONTAL
							HORIZONTAL
							HORIZONTAL
							HORIZONTAL
							HORIZONTAL
							HORIZONTAL

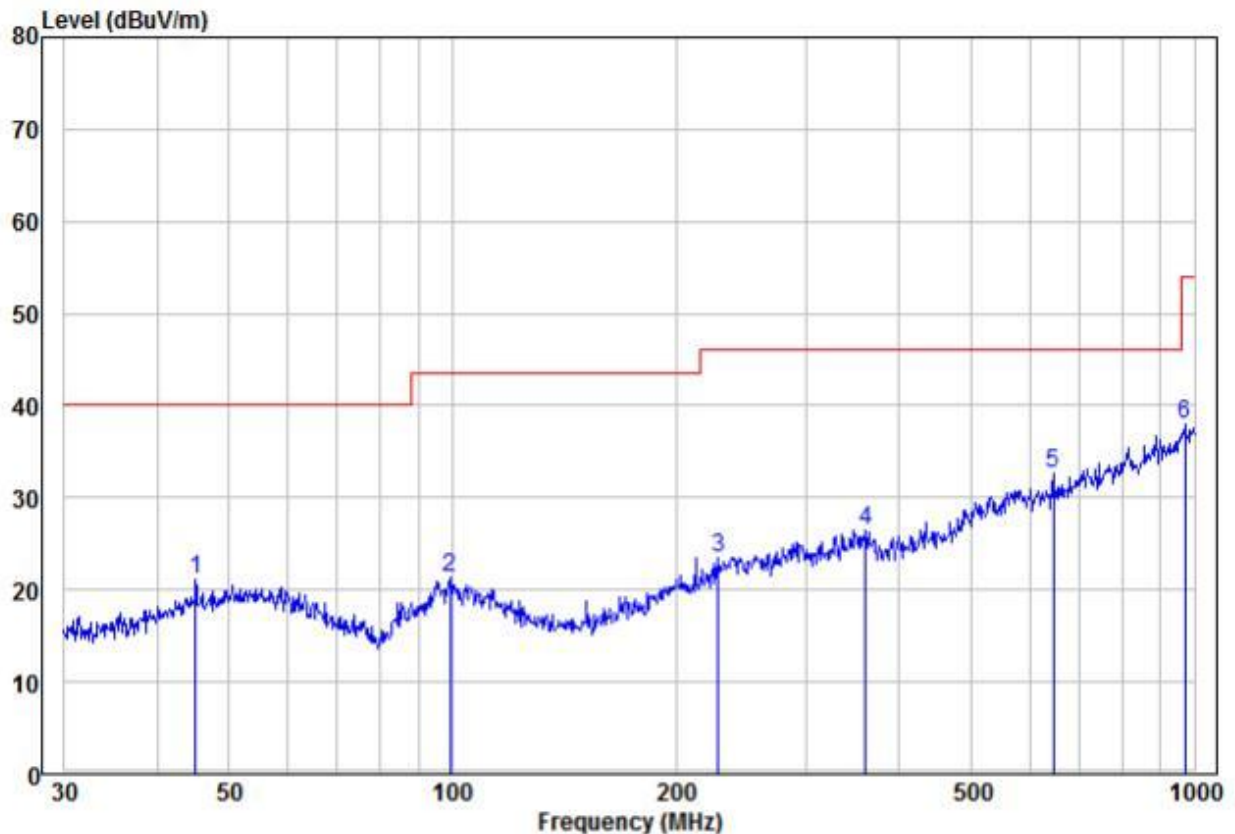
17#:

30MHz~1GHz

Test mode:

Transmitting

Vertical



	Read			Limit	Over			
	Freq	Level	Factor	Level	Line	Limit	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	45.06	22.61	-1.49	21.12	40.00	-18.88	Peak	VERTICAL
2	99.18	21.38	0.00	21.38	43.50	-22.12	Peak	VERTICAL
3	228.49	22.71	0.85	23.56	46.00	-22.44	Peak	VERTICAL
4	360.45	24.52	2.00	26.52	46.00	-19.48	Peak	VERTICAL
5 pp	645.12	32.19	0.50	32.69	46.00	-13.31	Peak	VERTICAL
6	972.34	35.99	2.00	37.99	54.00	-16.01	Peak	VERTICAL

Remark:

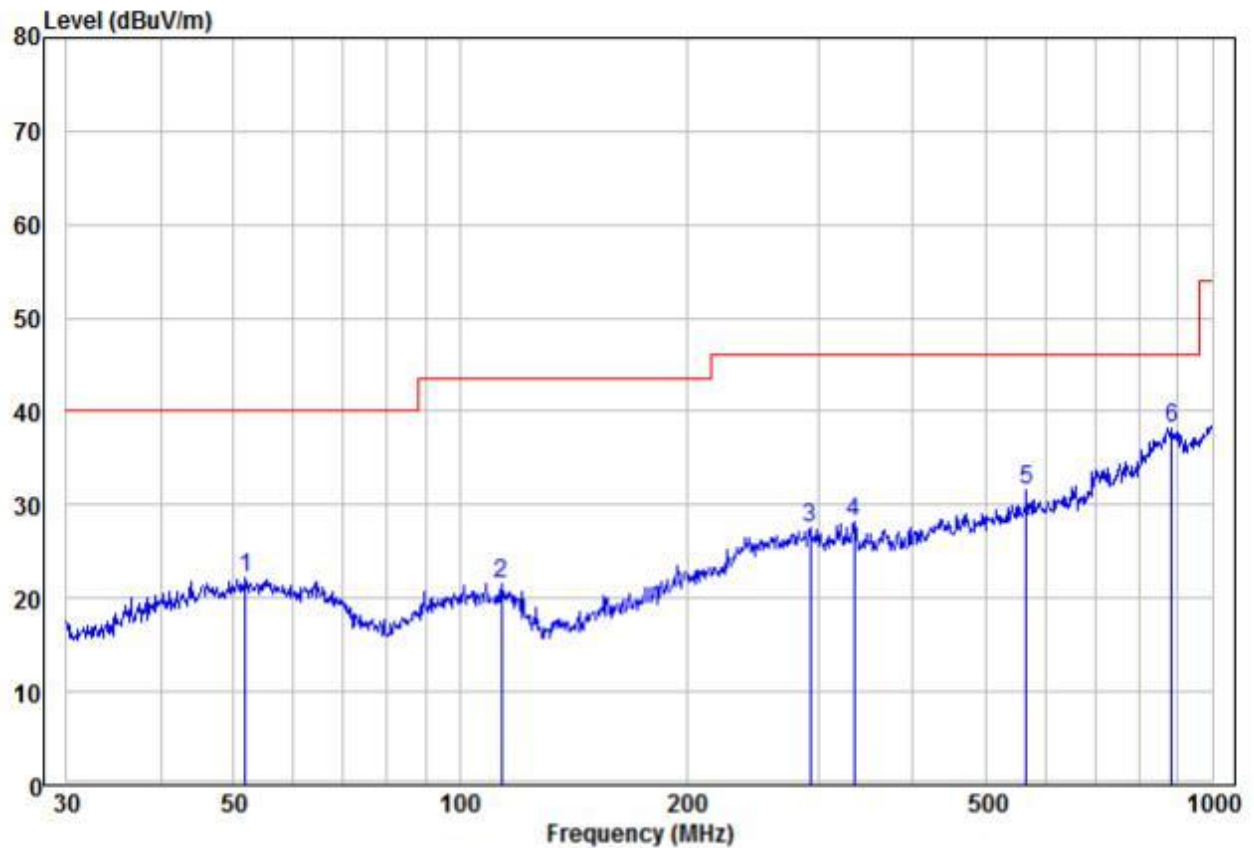
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Factor= Antenna Factor + Cable Factor – Preamplifier Factor,

Level = Read Level + Factor,

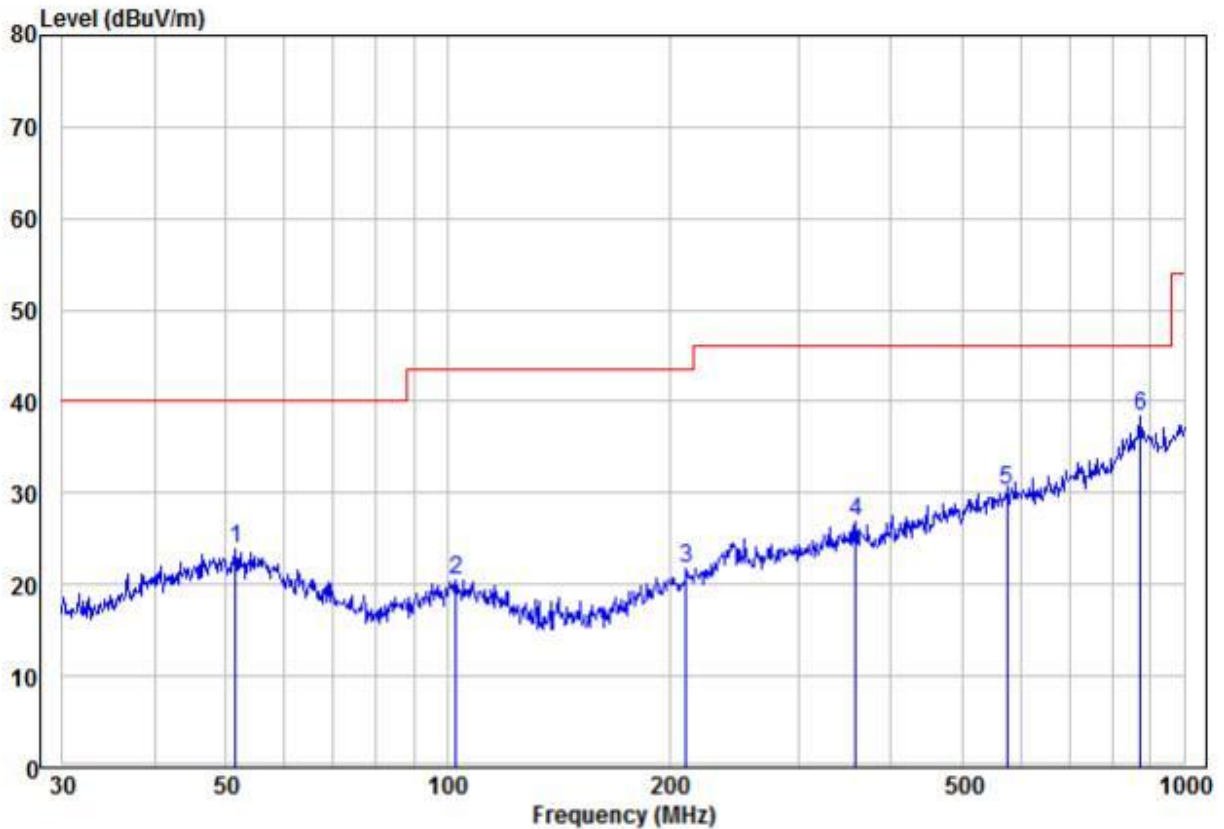
Over Limit=Level-Limit Line.

Test mode:	Transmitting	Horizontal
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	Read Freq	Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	51.84	22.75	-0.63	22.12	40.00	-17.88	Peak	HORIZONTAL
2	113.71	21.56	0.00	21.56	43.50	-21.94	Peak	HORIZONTAL
3	292.06	25.49	2.00	27.49	46.00	-18.51	Peak	HORIZONTAL
4	333.69	26.11	2.00	28.11	46.00	-17.89	Peak	HORIZONTAL
5	566.62	30.62	1.00	31.62	46.00	-14.38	Peak	HORIZONTAL
6 pp	884.50	34.70	3.50	38.20	46.00	-7.80	Peak	HORIZONTAL

18#: 30MHz~1GHz		
Test mode:	Transmitting	Vertical



	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	51.48	24.58	-0.70	23.88	40.00	-16.12	Peak	VERTICAL
2	102.72	20.51	0.00	20.51	43.50	-22.99	Peak	VERTICAL
3	210.79	21.83	0.00	21.83	43.50	-21.67	Peak	VERTICAL
4	357.93	24.80	2.00	26.80	46.00	-19.20	Peak	VERTICAL
5	574.63	29.38	1.00	30.38	46.00	-15.62	Peak	VERTICAL
6 pp	872.18	34.82	3.50	38.32	46.00	-7.68	Peak	VERTICAL

Remark:

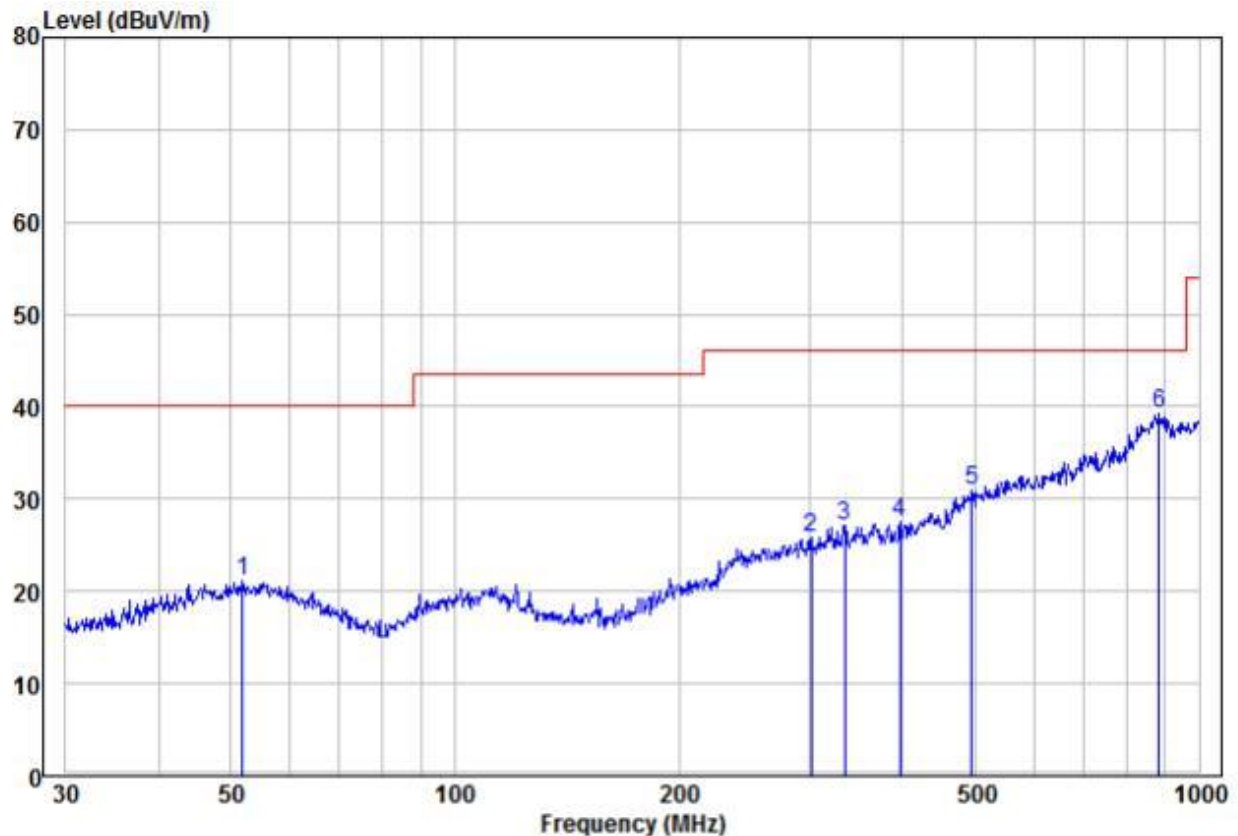
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Factor= Antenna Factor + Cable Factor – Preamplifier Factor,

Level = Read Level + Factor,

Over Limit=Level-Limit Line.

Test mode:	Transmitting	Horizontal
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	Freq	Read	Factor	Level	Limit	Over	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	51.84	21.75	-0.63	21.12	40.00	-18.88	Peak	HORIZONTAL
2	301.42	23.83	2.00	25.83	46.00	-20.17	Peak	HORIZONTAL
3	333.69	25.11	2.00	27.11	46.00	-18.89	Peak	HORIZONTAL
4	396.24	26.43	1.00	27.43	46.00	-18.57	Peak	HORIZONTAL
5	495.93	29.98	1.00	30.98	46.00	-15.02	Peak	HORIZONTAL
6 pp	884.50	35.70	3.50	39.20	46.00	-6.80	Peak	HORIZONTAL

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Factor= Antenna Factor + Cable Factor – Preamplifier Factor,

Level = Read Level + Factor,

Over Limit=Level-Limit Line.

5.10.2 Transmitter Emission above 1GHz

Worse case mode:		GFSK(DH5)		Test channel:		Lowest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
2390	54.33	-9.2	45.13	74	-28.87	Peak	H	1.5	172
2400	55.50	-9.39	46.11	74	-27.89	Peak	H	1.5	163
4804	52.81	-4.33	48.48	74	-25.52	Peak	H	1.5	217
7206	49.92	1.01	50.93	74	-23.07	Peak	H	1.5	311
2390	55.10	-9.2	45.90	74	-28.10	Peak	V	1.5	183
2400	52.08	-9.39	42.69	74	-31.31	Peak	V	1.5	139
4804	52.80	-4.33	48.47	74	-25.53	Peak	V	1.5	2
7206	50.91	1.01	51.92	74	-22.08	Peak	V	1.5	336

Worse case mode:		GFSK(DH5)		Test channel:		Middle			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
4882	51.47	-4.11	47.36	74	-26.64	peak	H	1.5	24
7323	51.03	1.51	52.54	74	-21.46	peak	H	1.5	220
4882	51.24	-4.11	47.13	74	-26.87	peak	V	1.5	266
7323	49.01	1.51	50.52	74	-23.48	peak	V	1.5	176

Worse case mode:		GFSK(DH5)		Test channel:		Highest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
2483.5	56.99	-9.29	47.70	74	-26.30	Peak	H	1.5	321
4960	53.19	-4.04	49.15	74	-24.85	Peak	H	1.5	215
7440	50.38	1.57	51.95	74	-22.05	Peak	H	1.5	60
2483.5	58.13	-9.29	48.84	74	-25.16	Peak	V	1.5	3
4960	52.18	-4.04	48.14	74	-25.86	Peak	V	1.5	295
7440	49.54	1.57	51.11	74	-22.89	Peak	V	1.5	151

Worse case mode:		$\pi/4$ DQPSK (2DH5)		Test channel:		Lowest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)		H/V	(m)	(Degree)
2390	55.49	-9.2	46.29	74	-27.71	Peak	H	1.5	172
2400	54.85	-9.39	45.46	74	-28.54	Peak	H	1.5	156
4804	54.19	-4.33	49.86	74	-24.14	Peak	H	1.5	67
7206	49.21	1.01	50.22	74	-23.78	Peak	H	1.5	316
2390	53.17	-9.2	43.97	74	-30.03	Peak	V	1.5	143
2400	52.39	-9.39	43.00	74	-31.00	Peak	V	1.5	20
4804	52.37	-4.33	48.04	74	-25.96	Peak	V	1.5	311
7206	50.61	1.01	51.62	74	-22.38	Peak	V	1.5	160

Worse case mode:		$\pi/4$ DQPSK (2DH5)		Test channel:		Middle			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)		H/V	(m)	(Degree)
4882	51.72	-4.11	47.61	74	-26.39	peak	H	1.5	35
7323	50.88	1.51	52.39	74	-21.61	peak	H	1.5	360
4882	52.27	-4.11	48.16	74	-25.84	peak	V	1.5	173
7323	50.68	1.51	52.19	74	-21.81	peak	V	1.5	195

Worse case mode:		$\pi/4$ DQPSK (2DH5)		Test channel:		Highest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)		H/V	(m)	(Degree)
2483.5	54.58	-9.29	45.29	74	-28.71	Peak	H	1.5	266
4960	50.27	-4.04	46.23	74	-27.77	Peak	H	1.5	16
7440	50.20	1.57	51.77	74	-22.23	Peak	H	1.5	155
2483.5	55.71	-9.29	46.42	74	-27.58	Peak	V	1.5	320
4960	51.06	-4.04	47.02	74	-26.98	Peak	V	1.5	3
7440	50.82	1.57	52.39	74	-21.61	Peak	V	1.5	82

Worse case mode:		8DPSK (3DH5)		Test channel:		Lowest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
2390	55.66	-9.2	46.46	74	-27.54	Peak	H	1.5	243
2400	56.48	-9.39	47.09	74	-26.91	Peak	H	1.5	316
4804	52.52	-4.33	48.19	74	-25.81	Peak	H	1.5	109
7206	49.68	1.01	50.69	74	-23.31	Peak	H	1.5	118
2390	53.57	-9.2	44.37	74	-29.63	Peak	V	1.5	246
2400	53.05	-9.39	43.66	74	-30.34	Peak	V	1.5	80
4804	55.07	-4.33	50.74	74	-23.26	Peak	V	1.5	113
7206	50.23	1.01	51.24	74	-22.76	Peak	V	1.5	137

Worse case mode:		8DPSK (3DH5)		Test channel:		Middle			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
4882	50.59	-4.11	46.48	74	-27.52	peak	H	1.5	27
7323	50.26	1.51	51.77	74	-22.23	peak	H	1.5	177
4882	53.99	-4.11	49.88	74	-24.12	peak	V	1.5	303
7323	49.13	1.51	50.64	74	-23.36	peak	V	1.5	248

Worse case mode:		8DPSK (3DH5)		Test channel:		Highest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
2483.5	56.85	-9.29	47.56	74	-26.44	Peak	H	1.5	168
4960	52.17	-4.04	48.13	74	-25.87	Peak	H	1.5	195
7440	50.68	1.57	52.25	74	-21.75	Peak	H	1.5	81
2483.5	57.20	-9.29	47.91	74	-26.09	Peak	V	1.5	322
4960	51.74	-4.04	47.70	74	-26.30	Peak	V	1.5	22
7440	49.52	1.57	51.09	74	-22.91	Peak	V	1.5	322

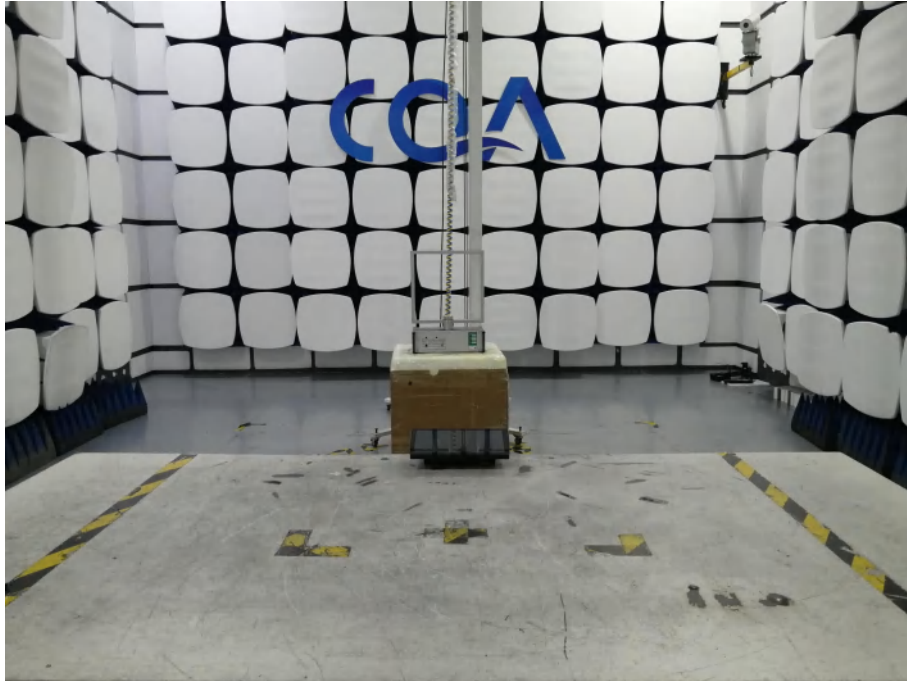
Remark:

- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- Scan from 9kHz to 25GHz, the disturbance above 10GHz and below 30MHz was very low. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

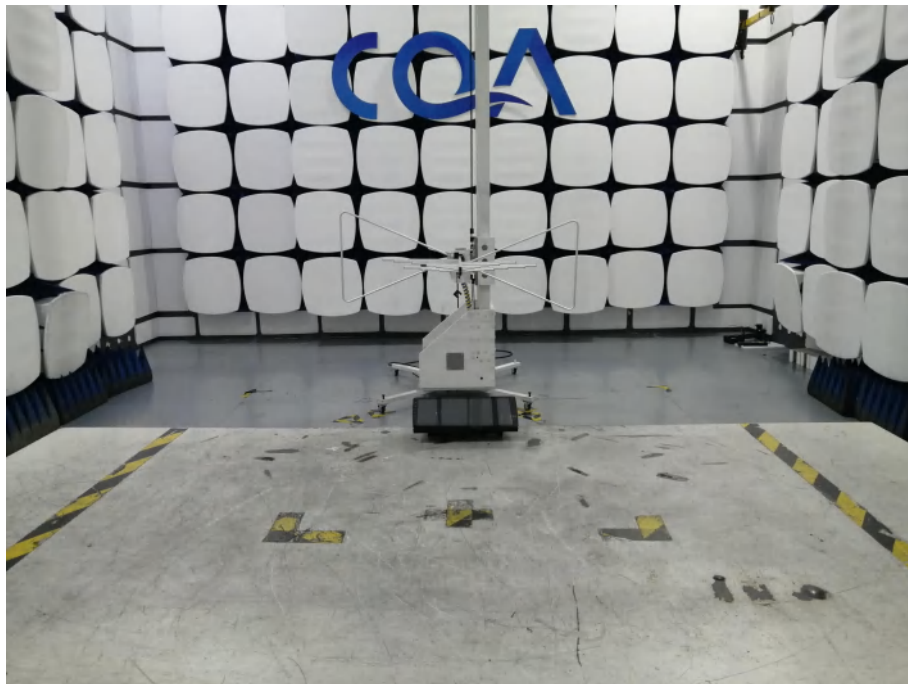
6 Photographs - EUT Test Setup

6.1 Radiated Emission

9KHz~30MHz:



30MHz~1GHz:

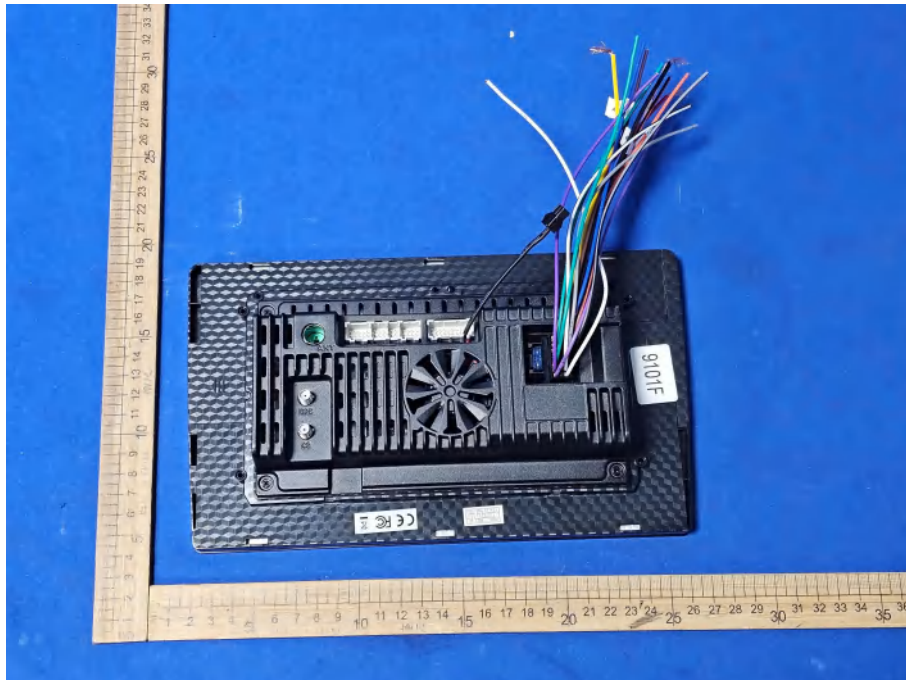


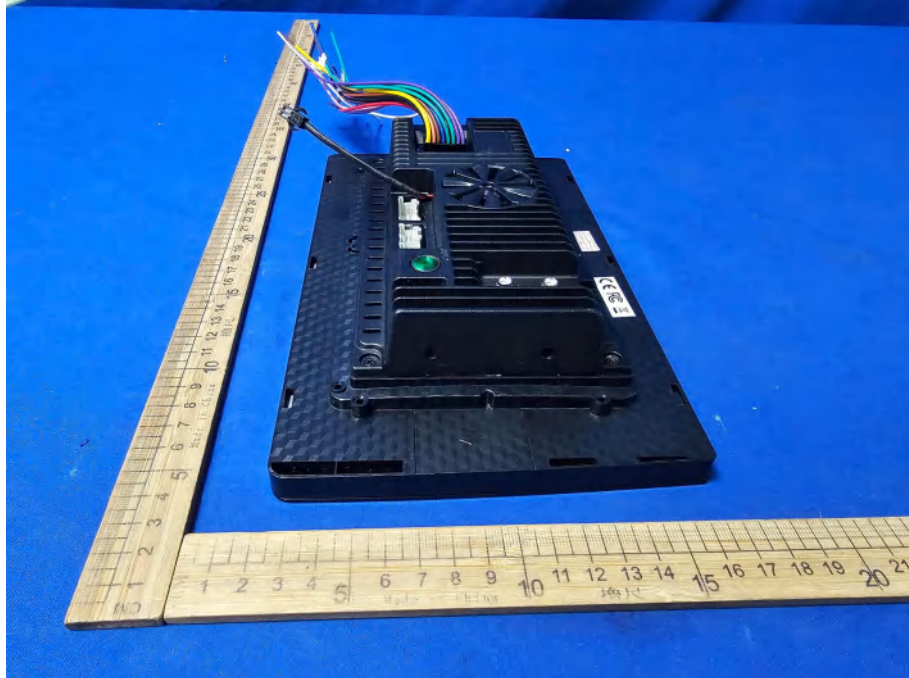
Above 1GHz:

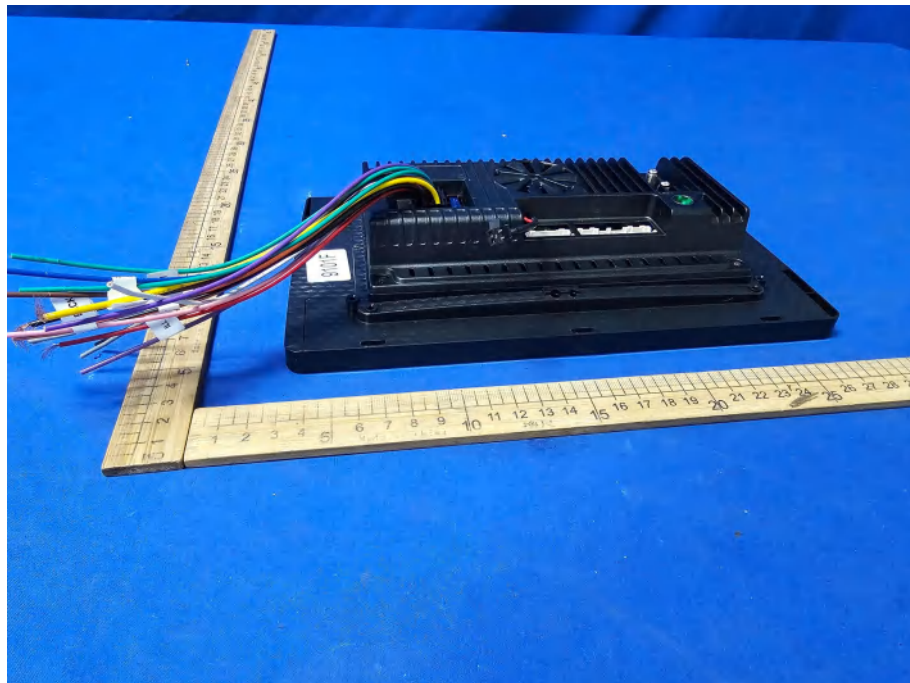


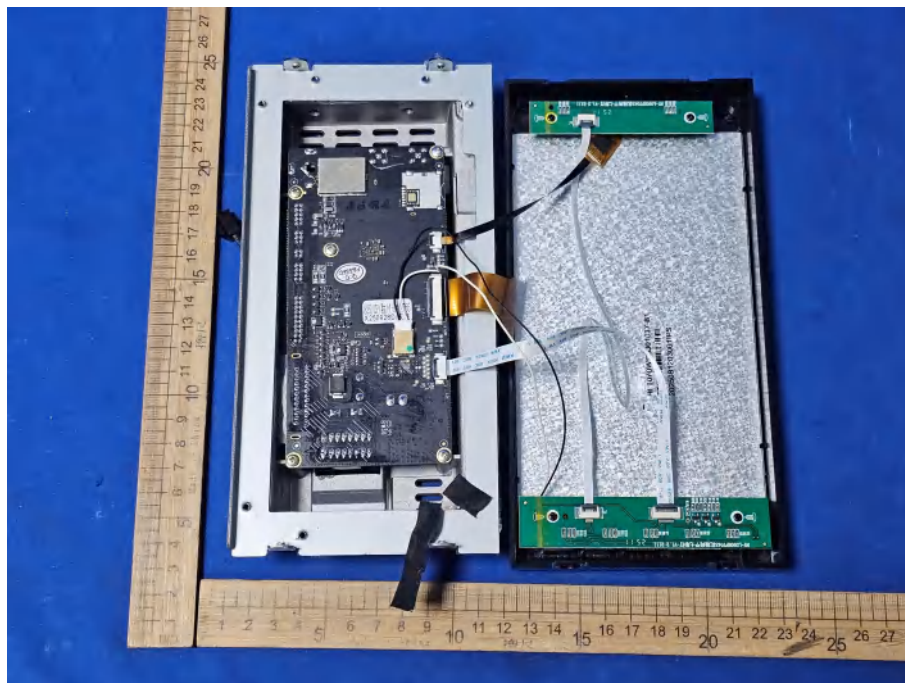
7 Photographs - EUT Constructional Details

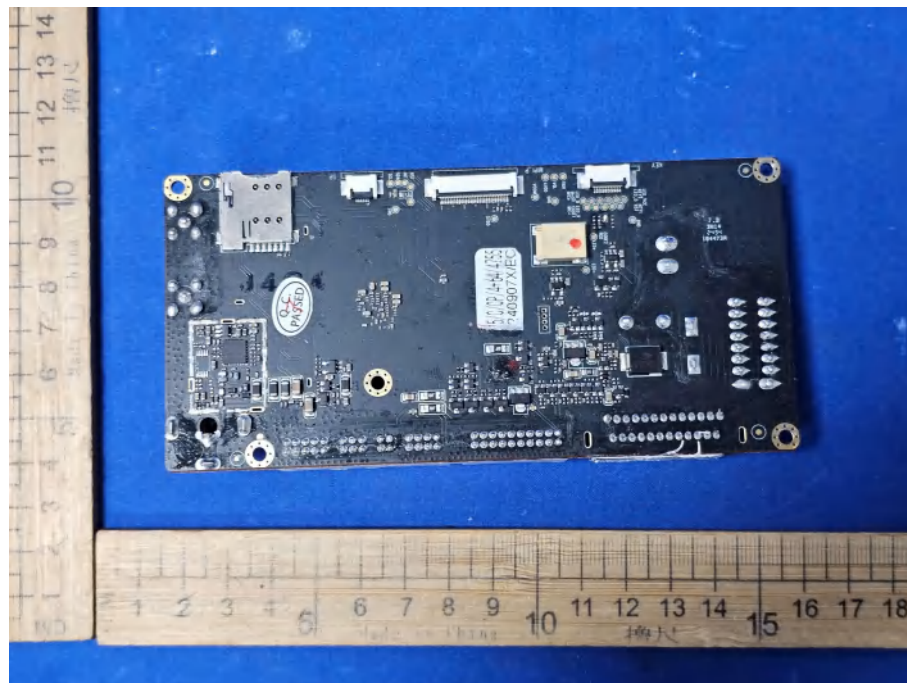
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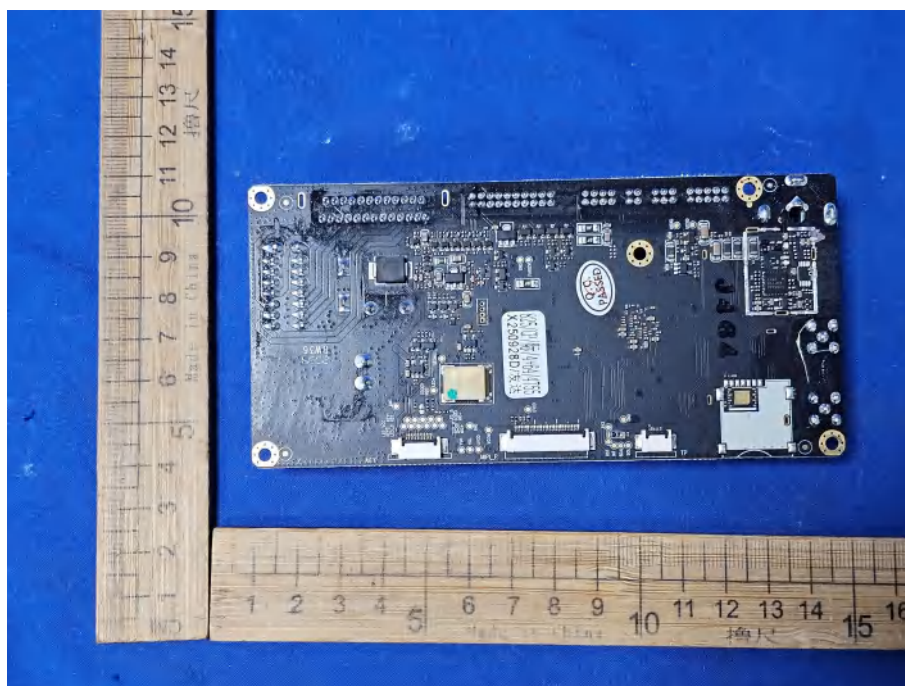
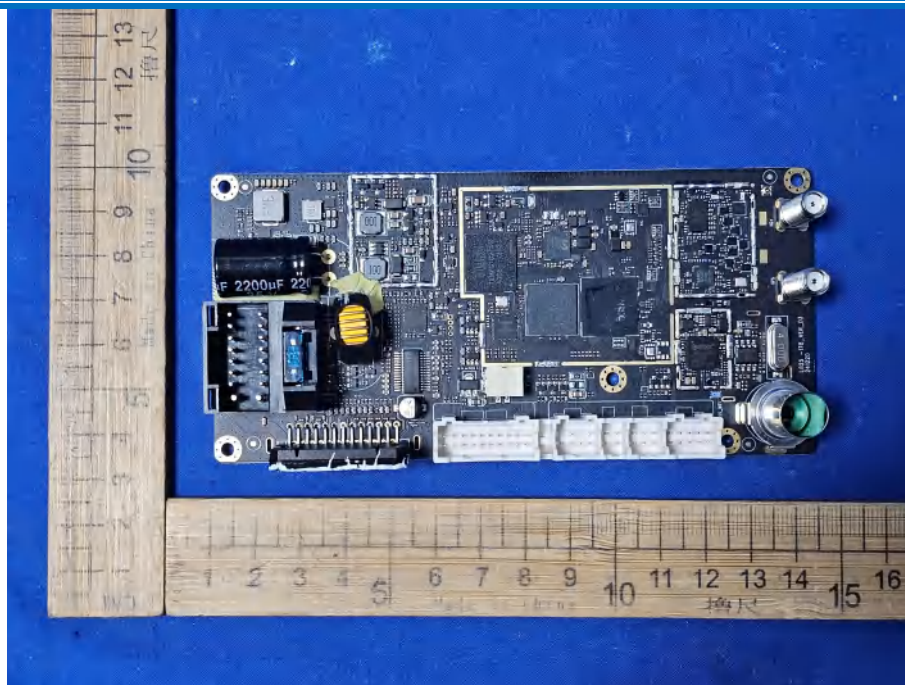


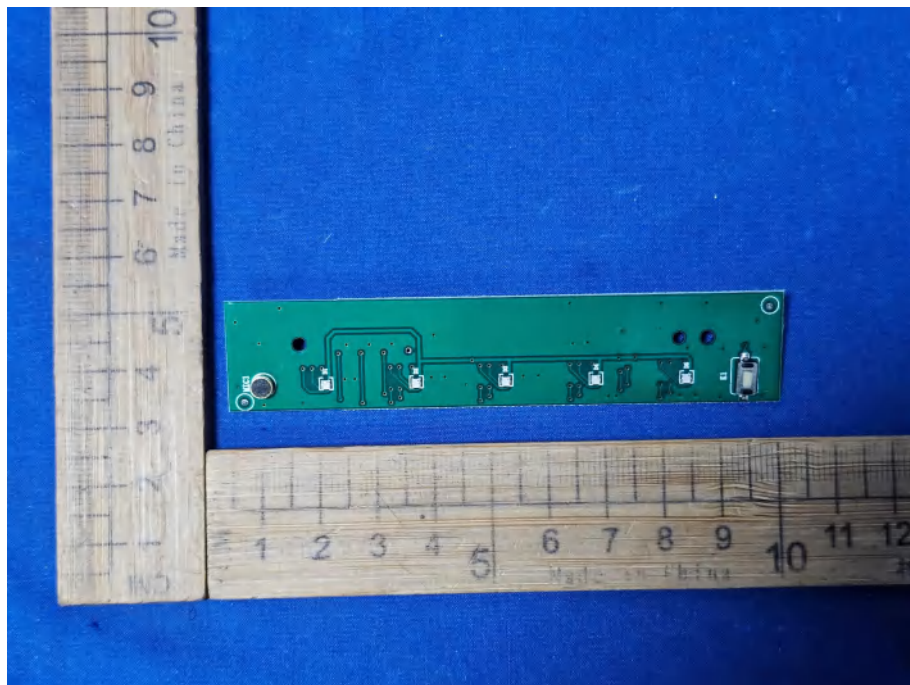
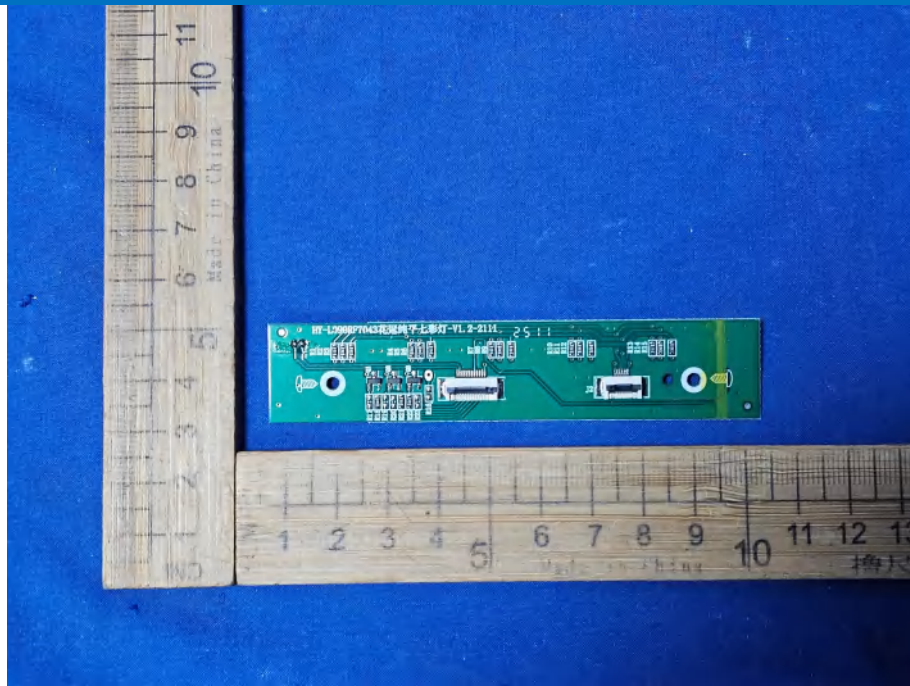


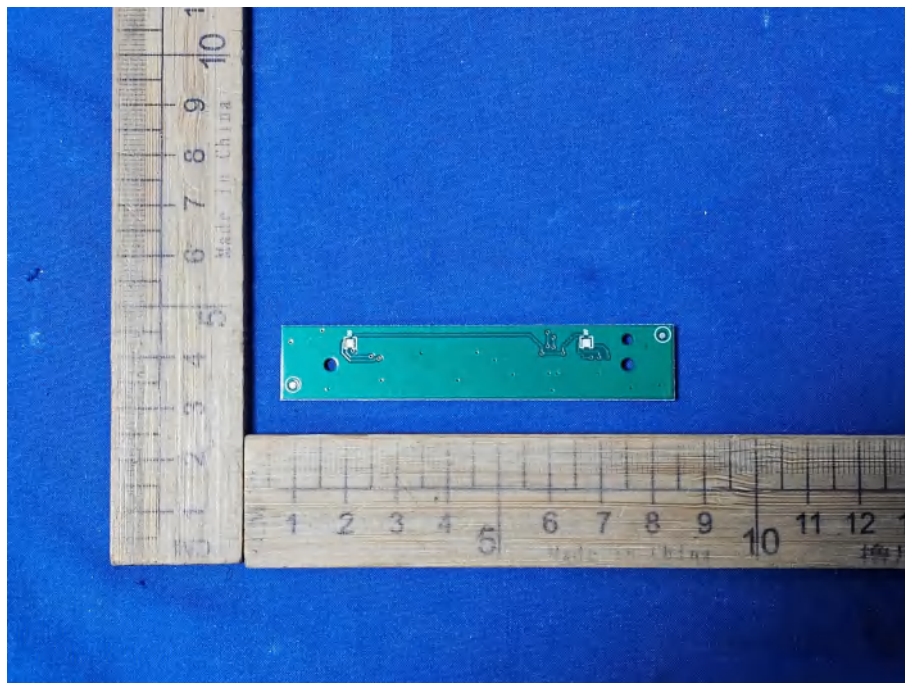
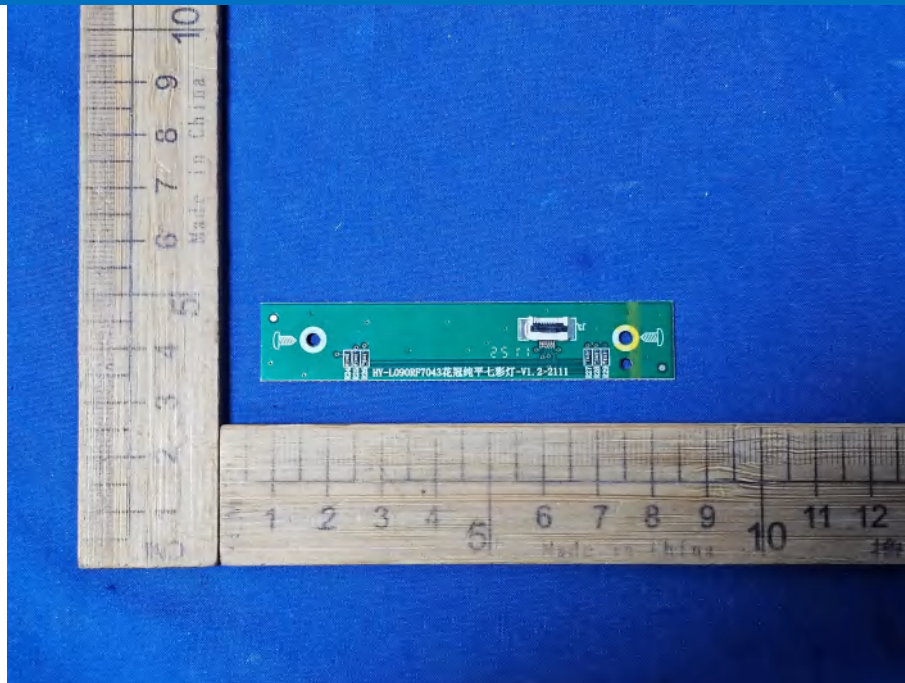












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