

Prüfbericht-Nr.: Test report no.:	CN228Q46 001	Auftrags-Nr.: Order no.:	244467143	Seite 1 von 49 Page 1 of 49
Kunden-Referenz-Nr.: Client reference no.:	1288983	Auftragsdatum: Order date:	2022-12-05	
Auftraggeber: Client:	IKEA of Sweden AB Box 702, SE-343 81 Älmhult, Sweden			
Prüfgegenstand: Test item:	Cordless Screwdriver			
Bezeichnung / Typ-Nr.: Identification / Type no.:	P2201 TRIXIG			
Auftrags-Inhalt: Order content:	TÜV Rheinland EMC service			
Prüfgrundlage: Test specification:	FCC 47 CFR Part 15, Subpart B:2021 Class B ICES-003:2020			
Wareneingangsdatum: Date of sample receipt:	2022-11-07~2023-02-06	Refer to the EUT photos file		
Prüfmuster-Nr.: Test sample no:	A003367488-003 A003366579-003 A003410020-005 A003410020-006			
Prüfzeitraum: Testing period:	Refer to test report			
Ort der Prüfung: Place of testing:	Refer to clause 1.1			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shanghai) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:	genehmigt von: authorized by:			
Datum: Date: 2023-06-30	Ausstellungsdatum: Issue date: 2023-06-30			
Stellung / Position: Sachverständige(r)/Expert	Stellung / Position: Sachverständige(r)/Expert			
Sonstiges / Other:	FCC ID: FHO-P2201 Test Firm Registration Number: 958801			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* Legende: P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet * Legend: P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested				
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Anmerkungen
Remarks

1	Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden. <i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i>
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4	Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019. <i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i>

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TEST SUMMARY

5.1.1 CONDUCTED EMISSION

Result:
Passed

5.2.1 RADIATED EMISSION (30-1000 MHz)

Result:
Passed

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1 Test Sites

1.1 Test Facilities

Laboratory: TÜV Rheinland (Shanghai) Co., Ltd.

Address: No.177, 178, Lane 777 West Guangzhong Road, Jing'an District, Shanghai, China

The used test equipment is in accordance with CISPR 16-1 series standards for measurement of radio interference.

Refer to Clause 7 for test and measurement instruments.

2 General Product Information

2.1 Product Function and Intended Use

The EUT (equipment under test) is an ordinary cordless screwdriver for household and similar use. For the further information, refer to the user's manual.

2.2 Ratings and System Details

Rated input voltage : DC 3.6 V, 1.5 Ah

Protection class : III

Identities and difference: Above model has two kinds of battery packs, and there are two alternative configurations. Therefore, the EMC tests were performed on the sample 1#, sample 2#, sample 3# and sample 4# respectively.

2.3 Independent Operation Modes

The basic operation modes are: "On" and "Off".

2.4 Description of interconnecting cables

N/A

2.5 Noise Generating and Noise Suppressing Parts

Refer to the circuit diagram for further information.

2.6 Highest frequency generated or used in the device or on which the device operates or tunes

The highest frequency used in the EUT is 16 MHz.

2.7 Submitted Documents

Circuit diagrams, user's manuals and labels.

3 Test Set-up and Operation Modes

3.1 Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible emission level. The test conditions were adapted accordingly in reference to the instructions for use.

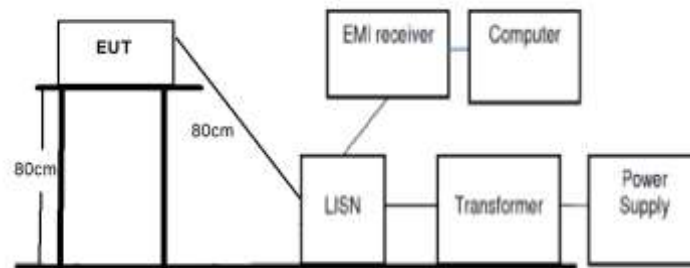
Refer to the related paragraph of this report.

The sequence of testing:

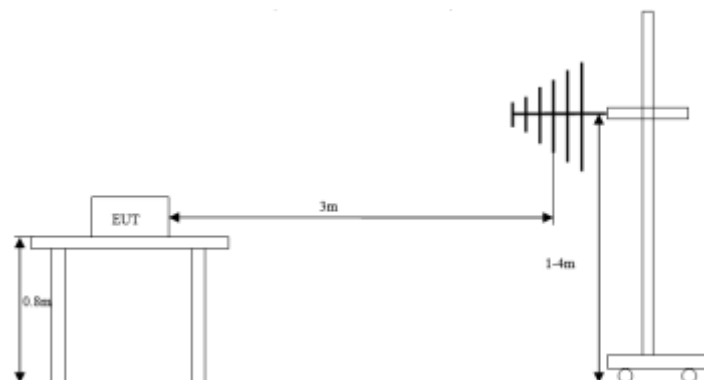
1. Radiated emission tests were performed on 2022-11-16~2023-02-28;
2. Conducted emission tests were performed on 2022-11-15~2023-02-23.

3.2 Equipment and cable arrangement

Block diagrams for conducted emission and radiated emission tests are as follows:



(Conducted emission)



(Radiated emission 30-1000 MHz)

Also refer to photograph on clause 6 for test setups for both conducted emission test and radiated emission tests.

3.3 Test Software

Refer to the related paragraph of this report. No software was used.

3.4 Special Accessories and Auxiliary Equipment

During the tests, a battery charger was used for charging mode.

3.5 Countermeasures to achieve EMC Compliance

No other special measure is employed to achieve the requirement.

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4 Conformity Decision Rule

For all EMI tests included in this report, as measurement uncertainties are less than the values U_{CISPR} given in CISPR 16-4-2, compliance with the limits is determined by comparing measurement results directly with corresponding limits without taking into consideration of measurement uncertainties.

5 Test Results EMISSION

5.1 Emission in the Frequency Range up to 30 MHz

5.1.1 Conducted Emission

Result:		Passed
Date of testing	: 2022-11-15~2023-02-23	
Test procedure	: FCC 47 CFR Part 15, Subpart B:2021, ICES-003:2020, ANSI C63.4-2014 and CISPR 16-2-1	
Frequency range	: 0.15 – 30 MHz	
Limits	: Quasi-peak limit: 0.15 – 0.5 MHz, 66 to 56 dB μ V (decrease with the logarithm of frequency); 0.5 – 5 MHz, 56 dB μ V; 5 – 30 MHz, 60 dB μ V Average limit: 0.15 – 0.5 MHz, 56 to 46 dB μ V (decrease with the logarithm of frequency); 0.5 – 5 MHz, 46 dB μ V; 5 – 30 MHz, 50 dB μ V	
Bandwidth of EMI receiver for final measurement	: 9 kHz	
Measurement time for final measurement	: 1 s	
Kind of test site	: Shielded room	
Input voltage	: AC 120 V, 60 Hz for battery charger	
Operational mode	: Charging mode	
Ambient condition	: Temperature: 21.9 °C; Relative humidity: 42.3 %	
Expanded measurement uncertainty ($k=2$)	: 3.39 dB	

The measurement setup was made according to ANSI C63.4-2014 in a shielded room.

The measurement equipment like test receivers, quasi-peak detector and artificial mains network (AMN) are in compliance with CISPR 16-1 series standards.

The tested object was set-up on a wooden support. The EUT was set 0.8 m away from the AMN. The cord longer than necessary to be connected to the AMN was folded forth and back parallel so as to form a bundle with a length between 0.3 m and 0.4 m.

The disturbance voltage test was performed on the neutral line and phase line of the power supply of the EUT respectively.

The following figures and tables were those measured by an automatic measuring system. Both quasi-peak and average measurements were performed. In the following spectral diagram, “*” means Quasi-Peak Value and “*” means Average Value results.

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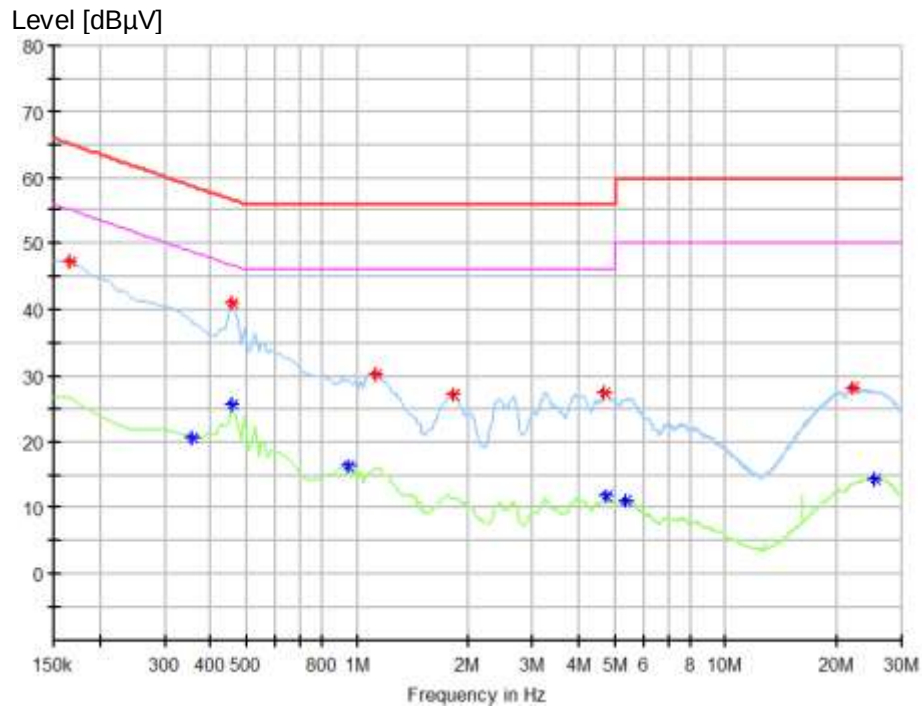
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Notes on following tables of conducted emission results and conversions:

Level (dB μ V): final measurement results by using quasi-peak detector and average detector

Transd (dB): transducer factor including cable loss, insertion loss of artificial mains network and gain of pre-amplifier (if used)

Margin: Limit (dB μ V) - Level (dB μ V)

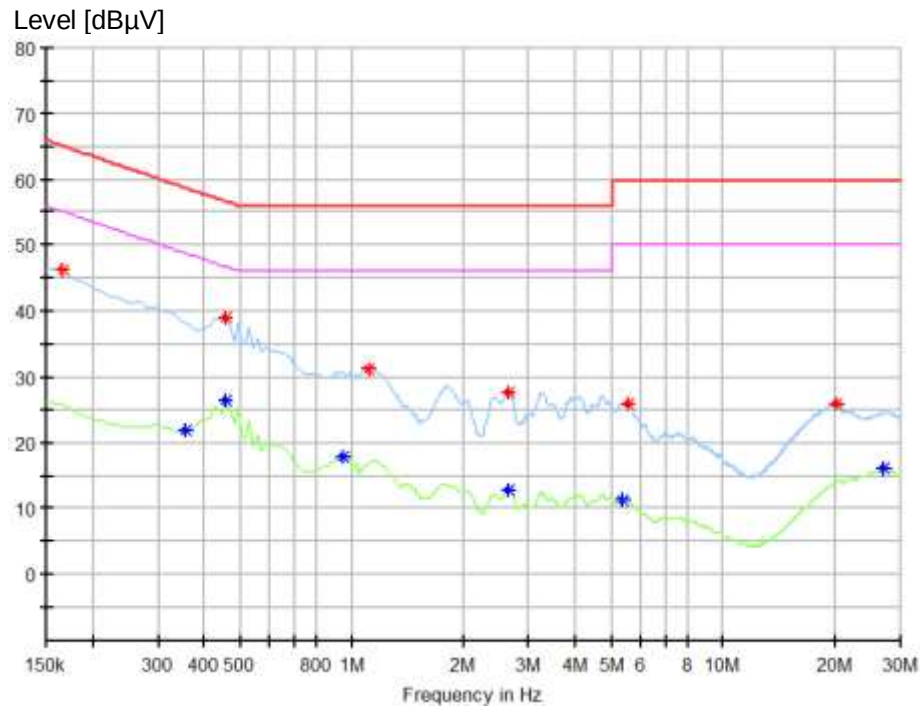
Figure 1: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, L with sample 1#


Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
1.820625	27.30	56.00	28.70	L1	9.6
4.711875	27.54	56.00	28.46	L1	9.7
22.194375	28.14	60.00	31.86	L1	9.7
1.123125	30.14	56.00	25.86	L1	9.6
0.459375	41.14	56.70	15.57	L1	9.6
0.166875	47.27	65.12	17.85	L1	9.6

Final Average measurement result:

Frequency (MHz)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
5.353125	11.13	50.00	38.87	L1	9.7
25.220625	14.42	50.00	35.58	L1	9.7
4.723125	11.81	46.00	34.19	L1	9.7
0.954375	16.36	46.00	29.64	L1	9.6
0.459375	25.66	46.70	21.05	L1	9.6
0.358125	20.80	48.77	27.98	L1	9.6

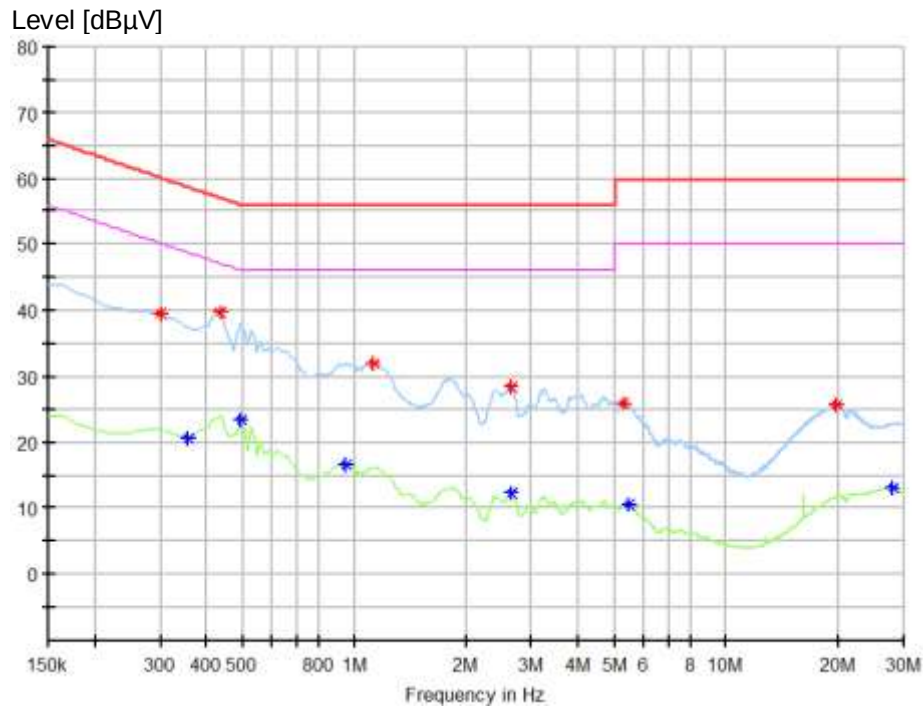
Figure 2: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, N with sample 1#


Final Quasi-peak measurement result:

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
5.353125	11.33	50.00	38.67	N	9.7
2.653125	12.88	46.00	33.12	N	9.7
26.964375	16.05	50.00	33.95	N	9.8
0.954375	17.96	46.00	28.04	N	9.6
0.358125	21.89	48.77	26.88	N	9.6
0.459375	26.38	46.70	20.33	N	9.6

Final Average measurement result:

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
5.353125	11.33	50.00	38.67	N	9.7
2.653125	12.88	46.00	33.12	N	9.7
26.964375	16.05	50.00	33.95	N	9.8
0.954375	17.96	46.00	28.04	N	9.6
0.358125	21.89	48.77	26.88	N	9.6
0.459375	26.38	46.70	20.33	N	9.6

Figure 3: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, L with sample 2#


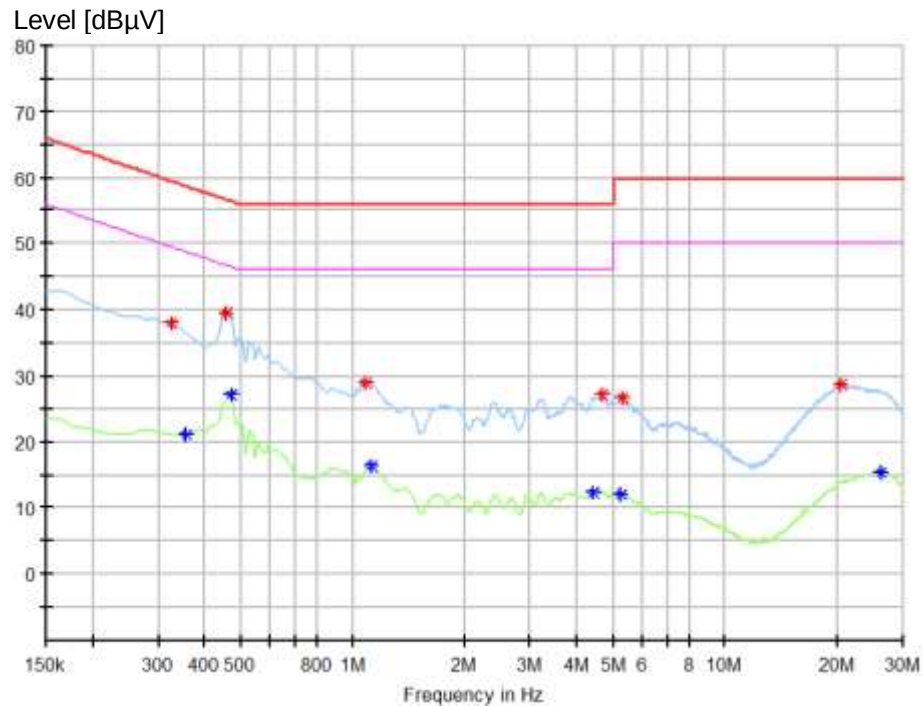
Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
19.854375	25.61	60.00	34.39	L1	9.6
5.296875	25.99	60.00	34.01	L1	9.7
2.641875	28.50	56.00	27.50	L1	9.7
1.123125	31.98	56.00	24.02	L1	9.6
0.301875	39.42	60.19	20.77	L1	9.6
0.436875	39.72	57.12	17.40	L1	9.6

Final Average measurement result:

Frequency (MHz)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
5.499375	10.50	50.00	39.50	L1	9.7
0.954375	16.64	46.00	29.36	L1	9.6
28.190625	13.14	50.00	36.86	L1	9.6
2.641875	12.30	46.00	33.70	L1	9.7
0.493125	23.55	46.12	22.57	L1	9.6
0.358125	20.80	48.77	27.98	L1	9.6

Figure 4: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, N with sample 2#



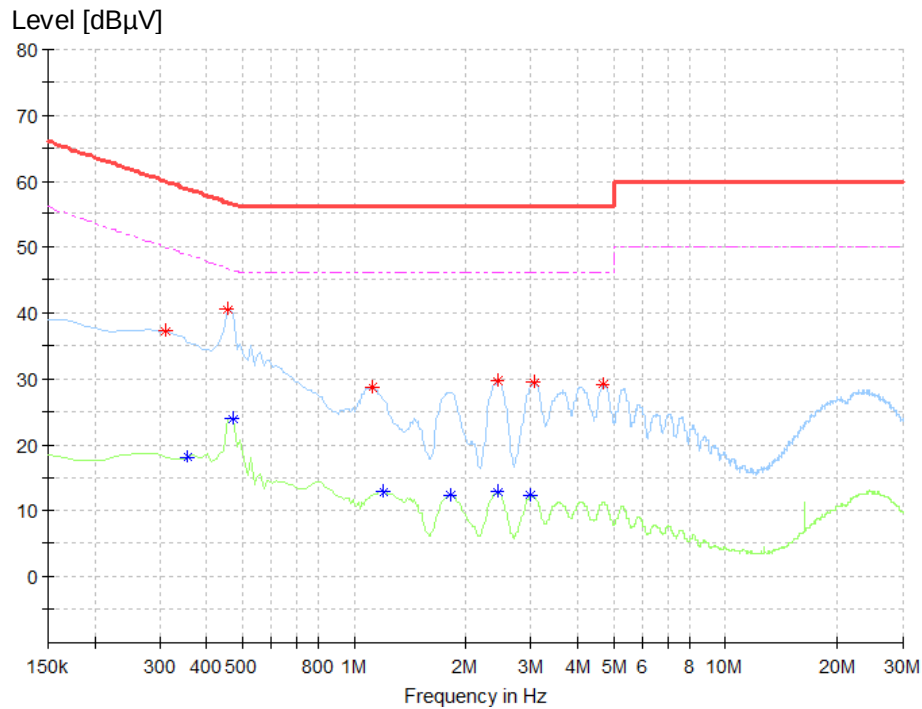
Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
5.296875	26.70	60.00	33.30	N	9.7
4.678125	27.09	56.00	28.91	N	9.7
20.484375	28.80	60.00	31.20	N	9.8
1.089375	29.01	56.00	26.99	N	9.6
0.324375	37.95	59.59	21.65	N	9.6
0.459375	39.52	56.70	17.18	N	9.6

Final Average measurement result:

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
5.263125	12.21	50.00	37.79	N	9.7
26.199375	15.39	50.00	34.61	N	9.8
0.470625	27.09	46.50	19.41	N	9.6
0.358125	21.07	48.77	27.70	N	9.6
4.430625	12.39	46.00	33.61	N	9.7
1.123125	16.34	46.00	29.66	N	9.6

Figure 5: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, L with sample 3#



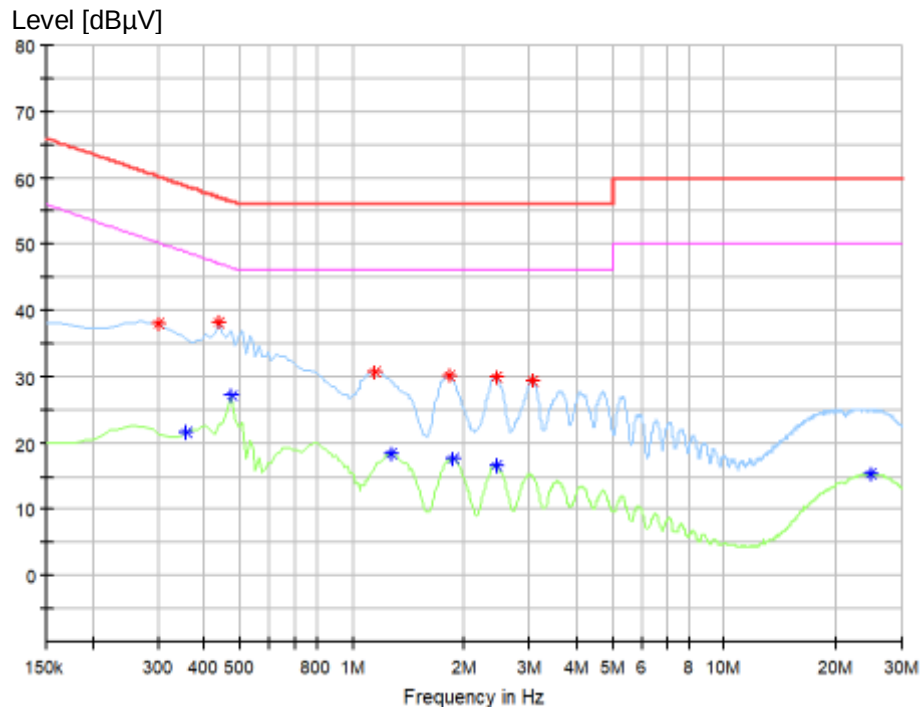
Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBuV)	Limit (dBuV)	Margin (dB)	Line
1.123125	28.68	56.00	27.32	L1
4.689375	29.29	56.00	26.71	L1
3.069375	29.58	56.00	26.42	L1
2.439375	29.72	56.00	26.28	L1
0.313125	37.29	59.89	22.60	L1
0.459375	40.45	56.70	16.25	L1

Final Average measurement result:

Frequency (MHz)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line
3.001875	12.32	46.00	33.68	L1
2.439375	12.88	46.00	33.12	L1
0.470625	24.00	46.50	22.50	L1
0.358125	18.18	48.77	30.59	L1
1.820625	12.34	46.00	33.66	L1
1.201875	12.88	46.00	33.12	L1

Figure 6: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, N with sample 3#



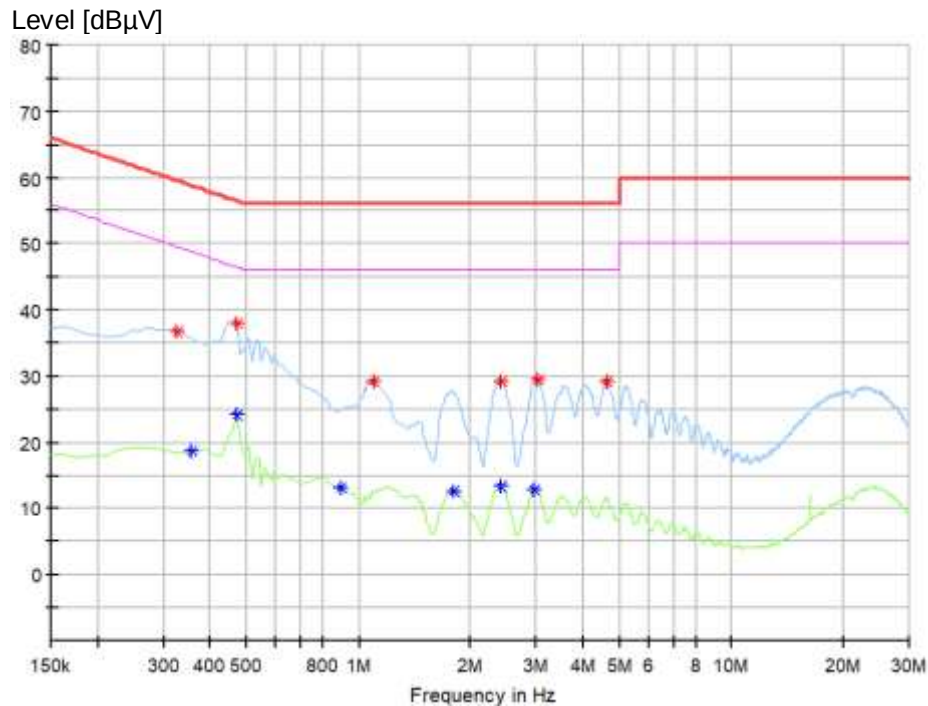
Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line
3.046875	29.35	56.00	26.65	N
2.428125	30.06	56.00	25.94	N
1.820625	30.14	56.00	25.86	N
1.145625	30.83	56.00	25.17	N
0.301875	38.03	60.19	22.16	N
0.436875	38.18	57.12	18.94	N

Final Average measurement result:

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line
2.428125	16.69	46.00	29.31	N
24.838125	15.36	50.00	34.64	N
0.470625	27.28	46.50	19.23	N
0.358125	21.56	48.77	27.22	N
1.854375	17.63	46.00	28.37	N
1.269375	18.46	46.00	27.54	N

Figure 7: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, L with sample 4#



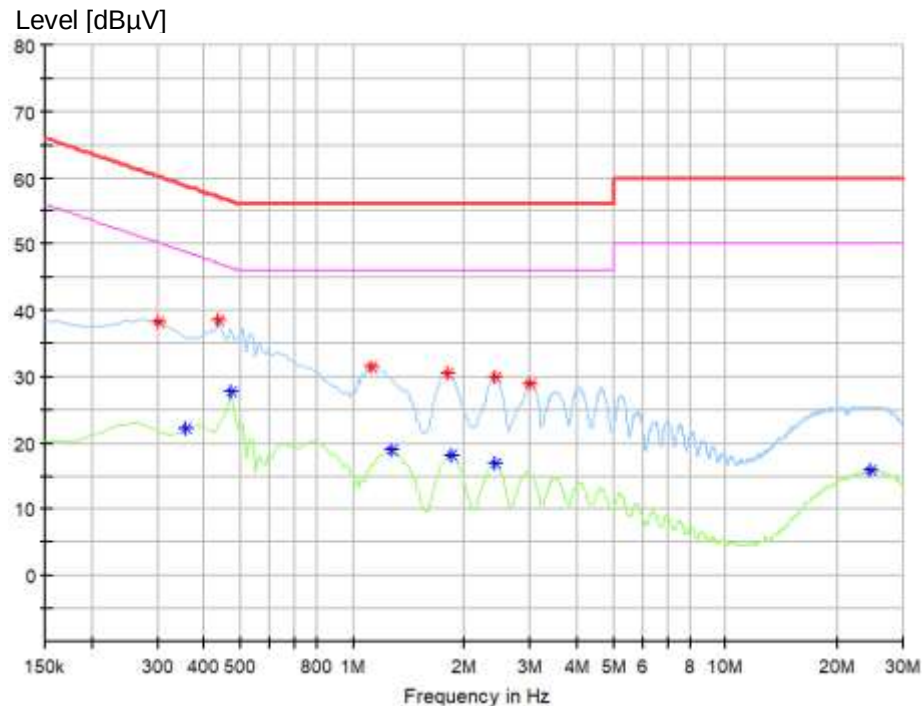
Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBuV)	Limit (dBuV)	Margin (dB)	Line
4.655625	29.19	56.00	26.81	L1
2.416875	29.29	56.00	26.71	L1
1.100625	29.32	56.00	26.68	L1
3.024375	29.57	56.00	26.43	L1
0.324375	36.75	59.59	22.85	L1
0.470625	37.92	56.50	18.58	L1

Final Average measurement result:

Frequency (MHz)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line
0.358125	18.67	48.77	30.10	L1
2.968125	12.84	46.00	33.16	L1
0.898125	13.09	46.00	32.91	L1
0.470625	24.10	46.50	22.40	L1
2.405625	13.30	46.00	32.70	L1
1.809375	12.71	46.00	33.29	L1

Figure 8: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, N with sample 4#



Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line
3.001875	28.92	56.00	27.08	N
2.405625	30.06	56.00	25.94	N
1.809375	30.50	56.00	25.50	N
1.123125	31.48	56.00	24.52	N
0.301875	38.25	60.19	21.94	N
0.436875	38.40	57.12	18.72	N

Final Average measurement result:

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line
2.405625	16.92	46.00	29.08	N
24.466875	15.80	50.00	34.20	N
0.470625	27.65	46.50	18.85	N
0.358125	22.09	48.77	26.68	N
1.843125	18.07	46.00	27.93	N
1.269375	18.94	46.00	27.06	N

5.2 Emission in the Frequency Range above 30 MHz

5.2.1 Radiated Emission (30-1000 MHz)

Result:		Passed
Date of testing	: 2022-11-16~2023-02-28	
Test procedure	: FCC 47 CFR Part 15, Subpart B:2021, ICES-003:2020, ANSI C63.4-2014 and CISPR 16-2-3	
Product classification	: Class B	
Frequency range	: 30 – 1000 MHz	
Limits	: Quasi-peak limits (3 m distance) (See Note 1) 30 – 88 MHz, 40 dB μ V/m; 88 – 216 MHz, 43.5 dB μ V/m; 216 – 960 MHz, 46 dB μ V/m; Above 960 MHz, 54 dB μ V/m.	
Bandwidth of EMI receiver for final measurement	: 120 kHz	
Measurement time for final measurement	: 1 s	
Kind of test site	: Semi-anechoic chamber	
Input voltage	: AC 120 V, 60 Hz (for battery charger) DC 3.6 V (for cordless screwdriver)	
Operational mode	: Mode 1: charging mode by the charger Mode 2: working continuously	
Ambient condition	: Temperature: 22.9 °C; Relative humidity: 40.3 %	
Expanded measurement uncertainty ($k=2$)	: 5.49 dB	

The radiated disturbance test was carried out in a semi-anechoic chamber. The test distance from the receiving antenna to the EUT is 3 m. The normalized site attenuation of the semi-anechoic chamber is regularly calibrated to ensure the radiated disturbance test results are valid. During the test, the EUT was placed on an 80 cm wooden support above the reference ground plane. The wooden support was rotated 360° around and the height of the antenna was varied from 1 m to 4 m to find the maximum disturbance. The test was performed with the antenna both in its horizontal and vertical polarizations.

The following figures and tables were those measured by an automatic measurement system. A preview test was firstly performed with peak detector. The final test was performed with quasi-peak at those critical frequencies during the preview test. In the following spectral diagram, “×” means quasi-peak test results.

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Note 1: The class B limits of FCC 47 CFR Part 15, Subpart B:2021 is stricter than those ICES-003:2020 Table 2 for 3 m test distance. Therefore, the former limits are used in following figures and tables.

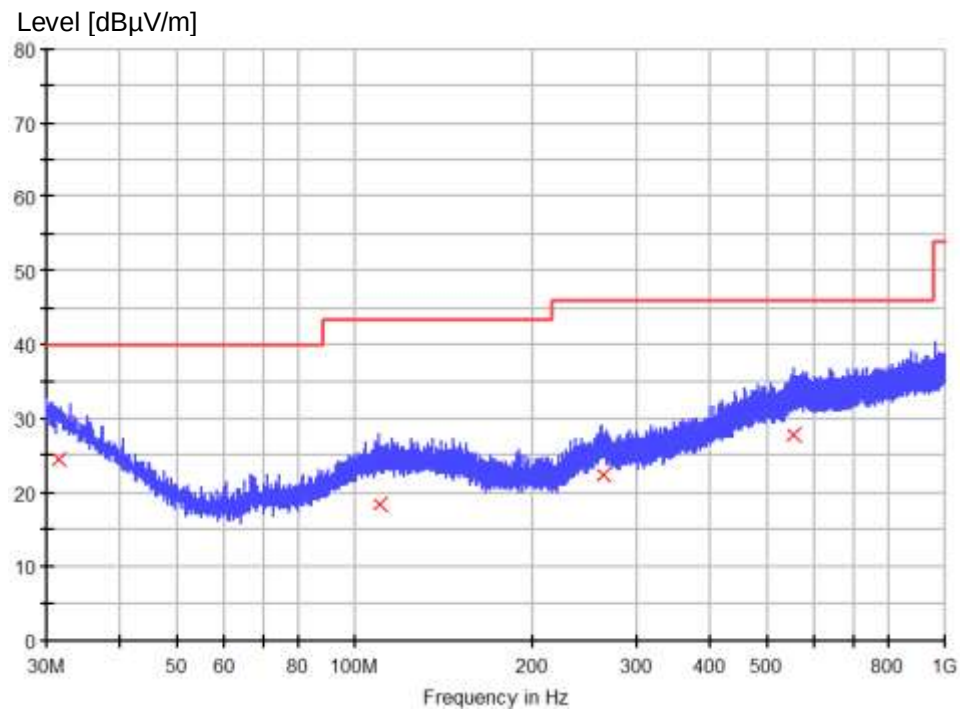
Notes on following tables of radiated emission results and conversions:

QuasiPeak (dB μ V/m): final measurement results by using quasi-peak detector

Corr. (dB): correction factor including: antenna factor, cable loss, and gain of pre-amplifier (if used)

Margin: Limit (dB μ V/m) - QuasiPeak (dB μ V/m)

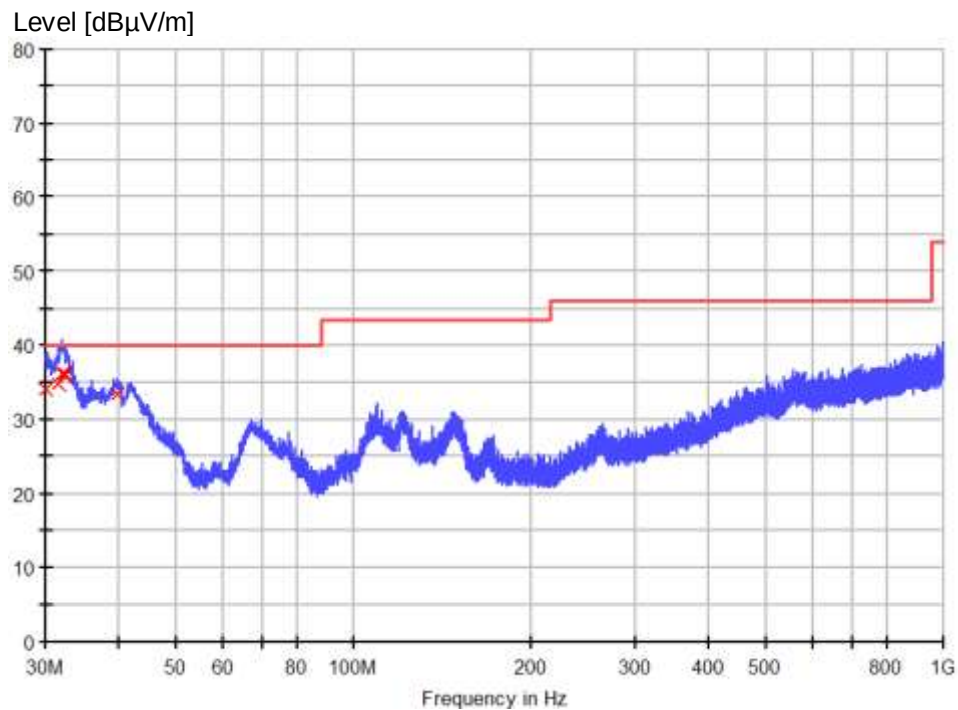
Figure 9: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Horizontal polarization on mode 1 with sample 1#



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBμV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
31.390333	24.6	120.000	100.0	H	62.0	24.7	15.4	40.0
110.025000	18.5	120.000	150.0	H	180.0	18.5	25.0	43.5
263.349667	22.4	120.000	135.0	H	-179.0	20.7	23.6	46.0
553.541333	27.8	120.000	200.0	H	100.0	26.4	18.2	46.0

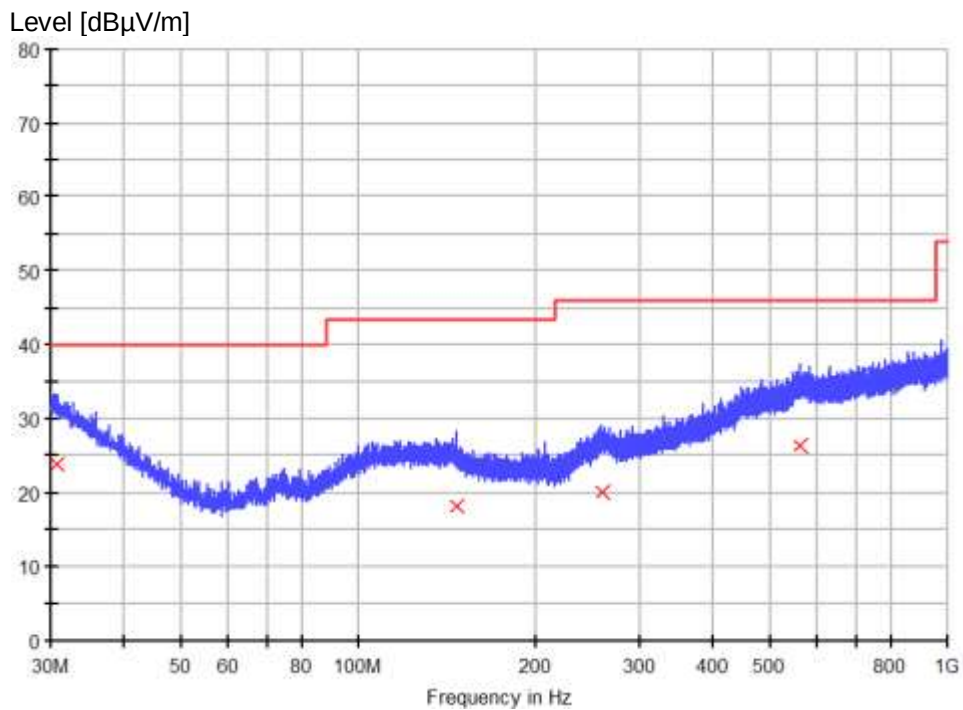
Figure 10: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Vertical polarization on mode 1 with sample 1#



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBμV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
30.097000	34.2	120.000	100.0	V	-133.0	25.4	5.9	40.0
31.620000	34.8	120.000	105.0	V	86.0	24.7	5.2	40.0
32.037000	36.2	120.000	100.0	V	172.0	24.5	3.8	40.0
32.198667	36.3	120.000	100.0	V	-180.0	24.4	3.7	40.0
32.392667	36.1	120.000	120.0	V	180.0	24.2	3.9	40.0
39.780000	33.5	120.000	100.0	V	-180.0	20.1	6.5	40.0

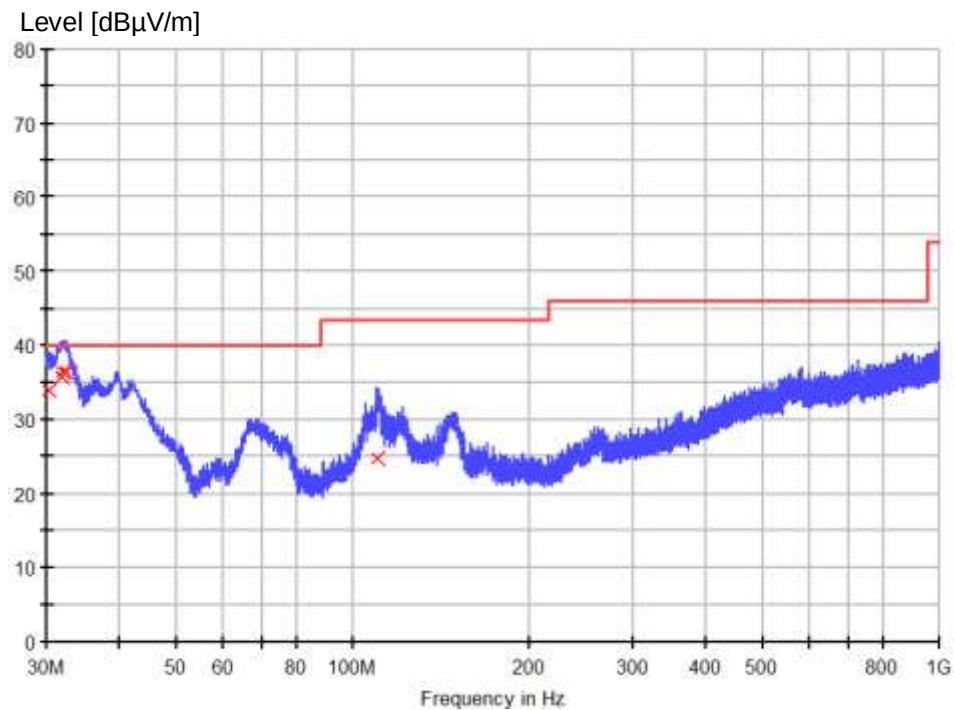
Figure 11: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Horizontal polarization on mode 1 with sample 2#



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBμV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
30.776000	23.8	120.000	120.0	H	33.0	25.0	16.2	40.0
146.238333	18.2	120.000	150.0	H	180.0	17.6	25.3	43.5
259.178667	20.1	120.000	100.0	H	-180.0	20.6	25.9	46.0
561.851000	26.4	120.000	160.0	H	158.0	26.3	19.6	46.0

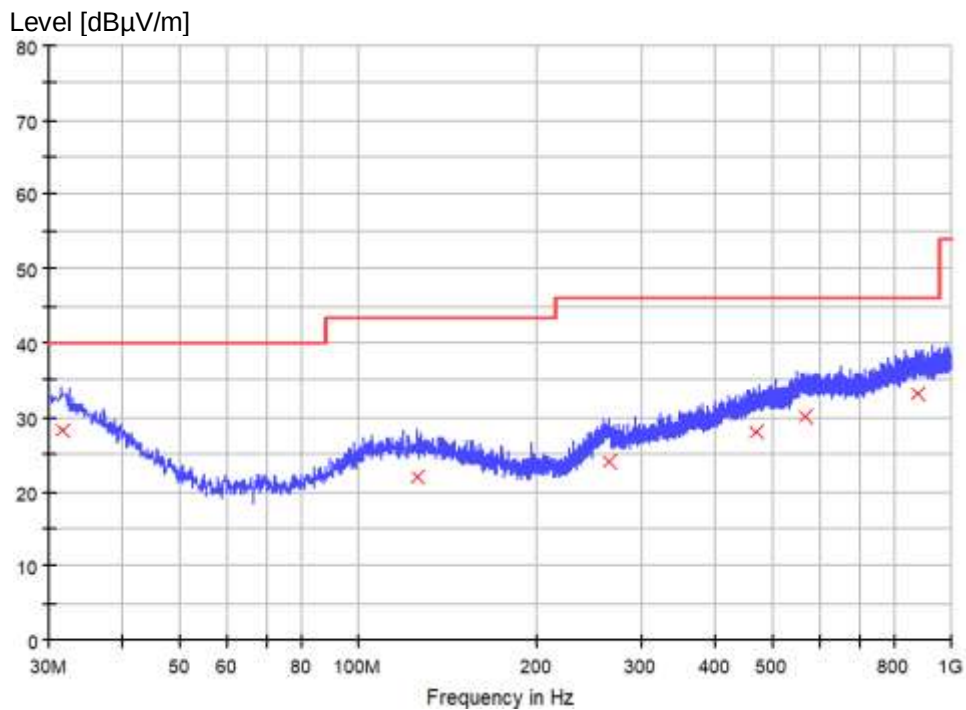
Figure 12: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Vertical polarization on mode 1 with sample 2#



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBμV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
30.161667	33.8	120.000	100.0	V	180.0	25.3	6.2	40.0
31.907667	35.7	120.000	100.0	V	-180.0	24.5	4.3	40.0
32.134000	36.4	120.000	130.0	V	62.0	24.4	3.6	40.0
32.425000	36.5	120.000	100.0	V	155.0	24.2	3.5	40.0
110.348333	24.9	120.000	135.0	V	-180.0	18.5	18.6	43.5

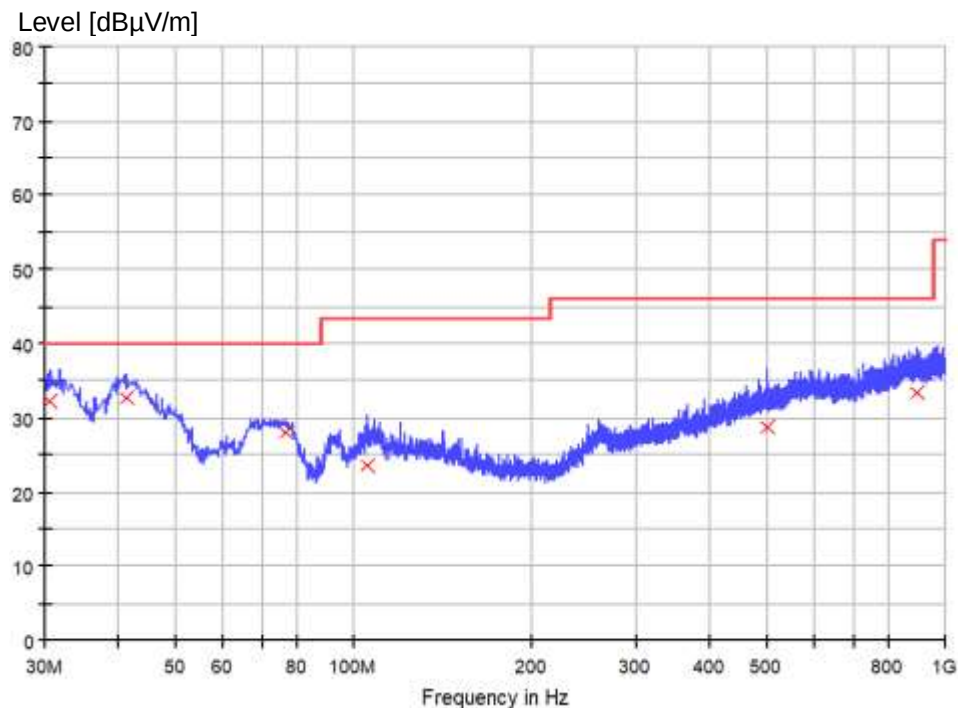
Figure 13: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Horizontal polarization on mode 1 with sample 3#



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBμV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
31.576250	28.4	120.000	110.0	H	166.0	24.7	11.6	40.0
125.787500	22.1	120.000	150.0	H	-180.0	18.8	21.4	43.5
265.467500	24.0	120.000	110.0	H	123.0	20.6	22.0	46.0
467.470000	28.0	120.000	165.0	H	162.0	24.3	18.0	46.0
566.410000	30.2	120.000	130.0	H	180.0	26.2	15.8	46.0
875.112500	33.3	120.000	100.0	H	71.0	28.0	12.7	46.0

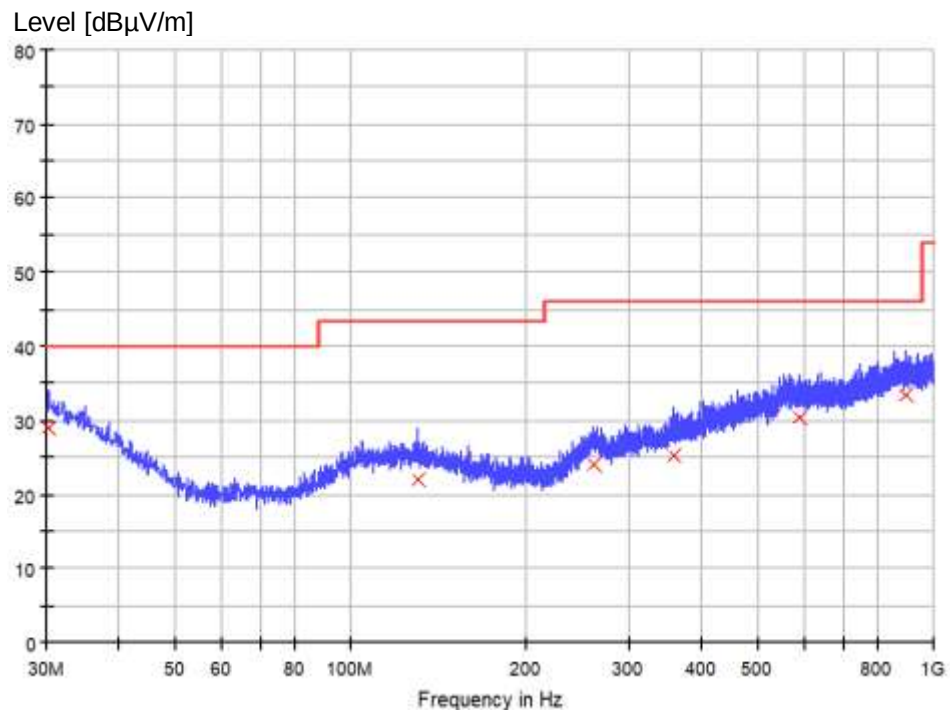
Figure 14: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Vertical polarization on mode 1 with sample 3#



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBμV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
30.727500	32.2	120.000	100.0	V	-180.0	25.0	7.8	40.0
41.155000	32.9	120.000	150.0	V	116.0	19.1	7.1	40.0
76.438750	28.0	120.000	130.0	V	97.0	13.3	12.0	40.0
105.296250	23.7	120.000	100.0	V	180.0	18.3	19.8	43.5
500.207500	28.7	120.000	165.0	V	-124.0	25.0	17.3	46.0
894.633750	33.5	120.000	110.0	V	172.0	28.4	12.5	46.0

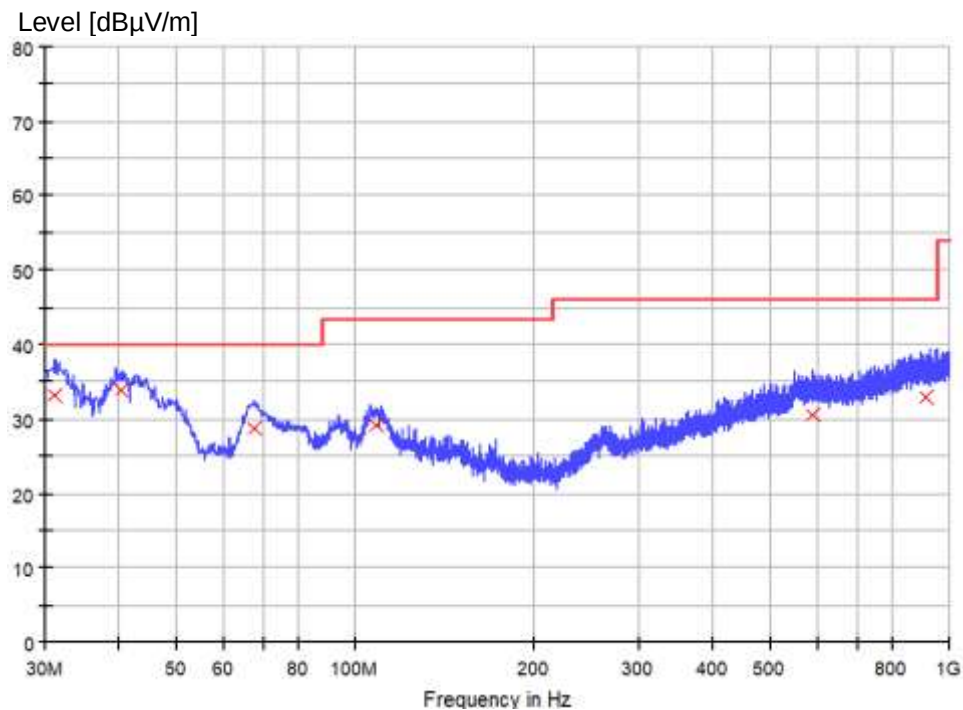
Figure 15: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Horizontal polarization on mode 1 with sample 4#



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBμV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
30.242500	29.0	120.000	100.0	H	167.0	25.3	11.0	40.0
130.637500	22.0	120.000	180.0	H	44.0	18.7	21.5	43.5
260.375000	24.0	120.000	135.0	H	-180.0	20.7	22.0	46.0
358.951250	25.2	120.000	160.0	H	91.0	21.7	20.8	46.0
589.083750	30.5	120.000	120.0	H	104.0	26.3	15.5	46.0
897.907500	33.4	120.000	110.0	H	-126.0	28.3	12.6	46.0

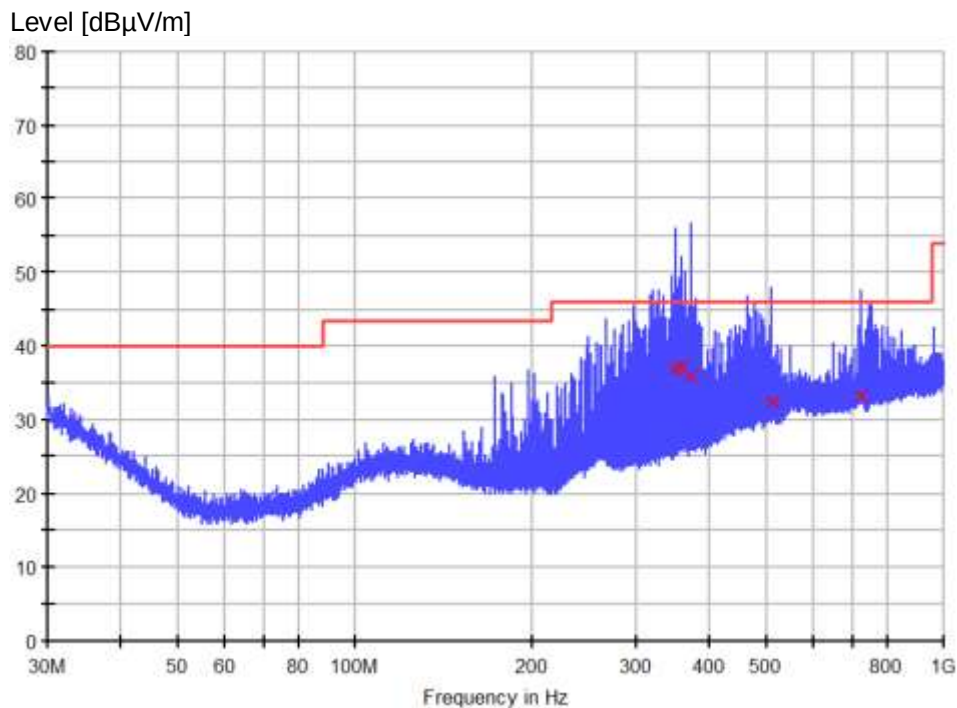
Figure 16: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Vertical polarization on mode 1 with sample 4#



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBμV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
31.212500	33.3	120.000	100.0	V	108.0	24.8	6.7	40.0
40.427500	33.9	120.000	120.0	V	44.0	19.7	6.1	40.0
67.466250	28.7	120.000	135.0	V	172.0	13.0	11.3	40.0
108.691250	29.2	120.000	160.0	V	-64.0	18.5	14.4	43.5
589.205000	30.6	120.000	110.0	V	180.0	26.3	15.4	46.0
914.033750	33.0	120.000	150.0	V	-174.0	28.1	13.0	46.0

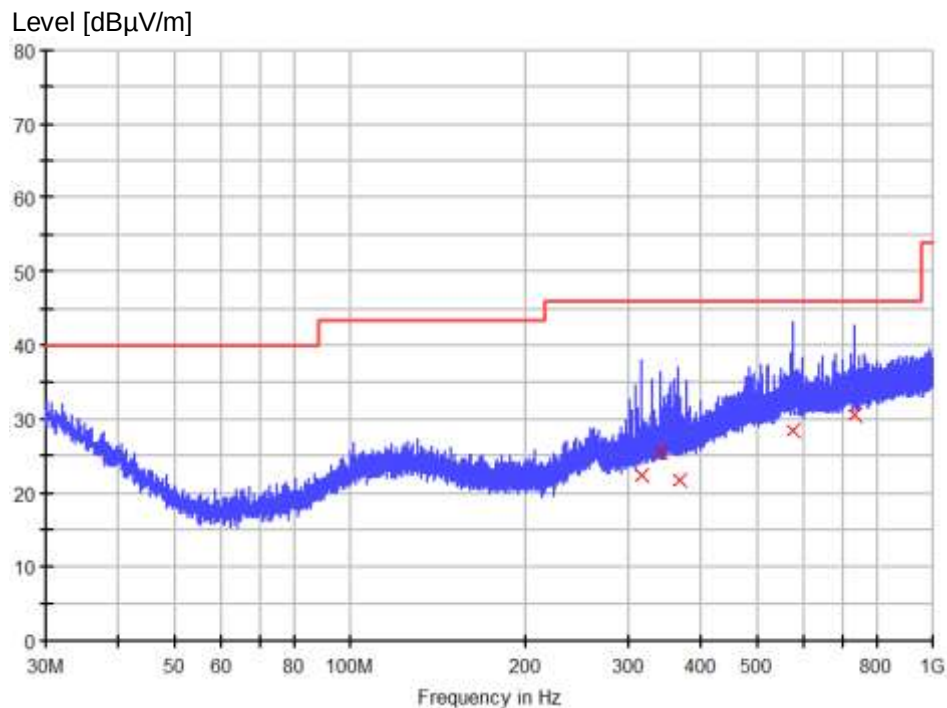
Figure 17: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Horizontal polarization on mode 2 with sample 1#, forward direction



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBμV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
349.518000	36.9	120.000	100.0	H	180.0	21.1	9.1	46.0
357.116333	37.2	120.000	130.0	H	-150.0	21.6	8.8	46.0
373.153667	36.0	120.000	150.0	H	66.0	21.9	10.0	46.0
510.602667	32.6	120.000	160.0	H	-99.0	24.9	13.4	46.0
725.102000	33.1	120.000	180.0	H	-180.0	26.5	12.9	46.0

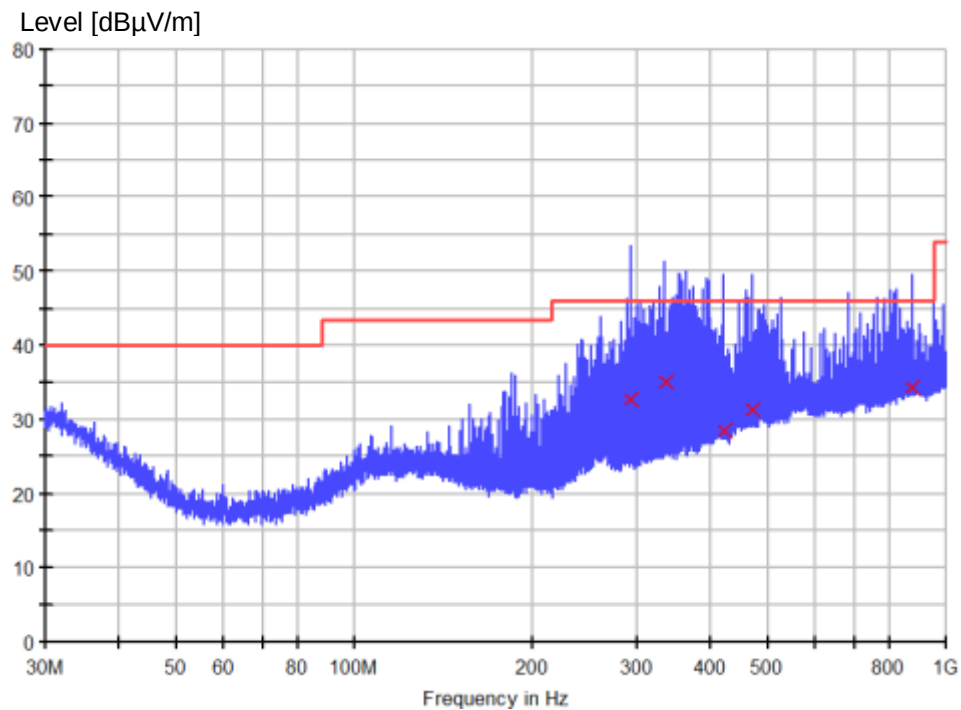
Figure 18: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Vertical polarization on mode 2 with sample 1#, forward direction



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBμV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
315.697333	22.5	120.000	100.0	V	-180.0	20.5	23.5	46.0
340.885000	25.6	120.000	120.0	V	120.0	20.7	20.4	46.0
367.495333	21.8	120.000	140.0	V	-65.0	21.8	24.2	46.0
575.140000	28.5	120.000	150.0	V	-122.0	26.0	17.5	46.0
731.827333	30.6	120.000	160.0	V	-180.0	26.8	15.4	46.0

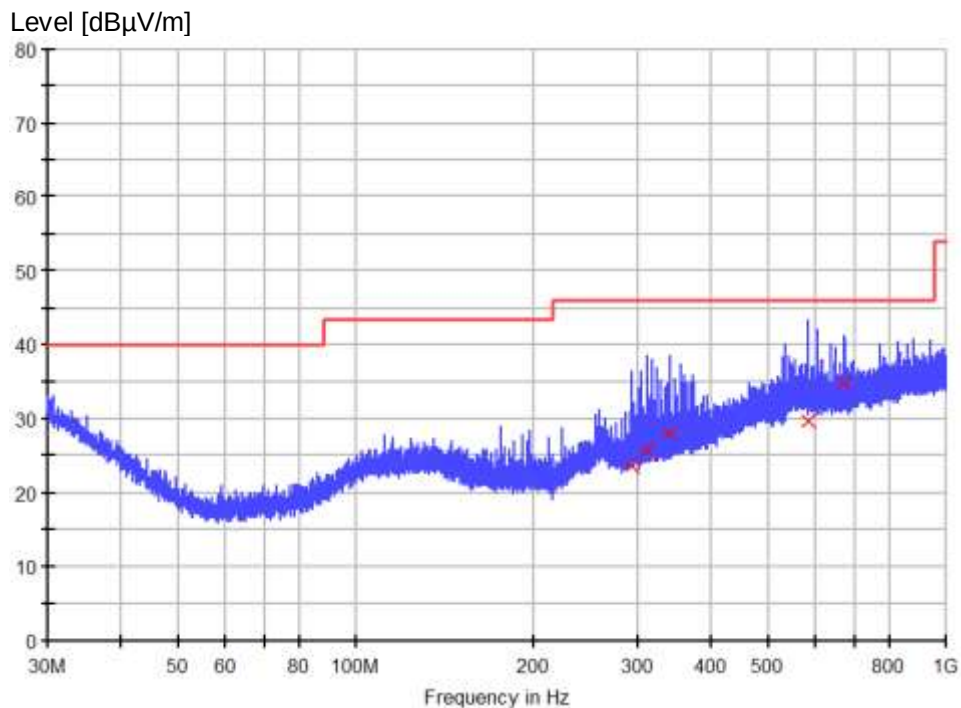
Figure 19: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Horizontal polarization on mode 2 with sample 1#, backward direction



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBμV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
294.583667	32.7	120.000	100.0	H	180.0	19.8	13.3	46.0
336.520000	35.0	120.000	120.0	H	-40.0	20.6	11.0	46.0
421.298000	28.5	120.000	130.0	H	77.0	23.4	17.5	46.0
469.636333	31.4	120.000	150.0	H	-105.0	24.4	14.6	46.0
872.574333	34.5	120.000	160.0	H	-180.0	28.0	11.5	46.0

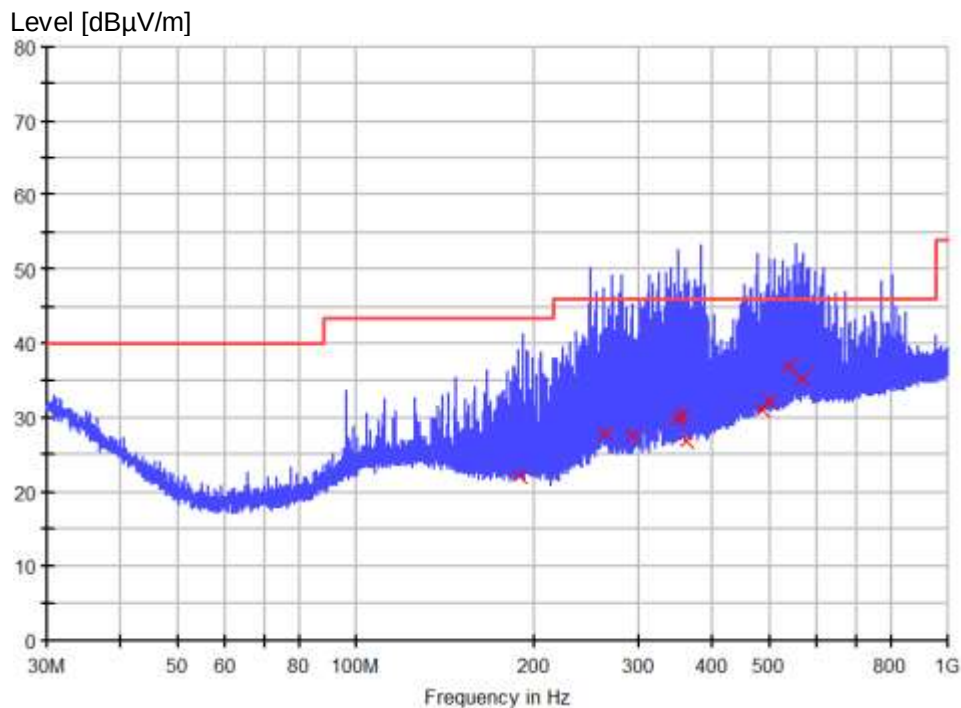
Figure 20: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Vertical polarization on mode 2 with sample 1#, backward direction



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBμV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
293.775333	23.6	120.000	100.0	V	180.0	19.8	22.4	46.0
310.718000	25.8	120.000	130.0	V	-80.0	20.3	20.2	46.0
339.171333	28.1	120.000	150.0	V	-130.0	20.7	17.9	46.0
582.900000	29.6	120.000	170.0	V	55.0	26.1	16.4	46.0
669.294667	34.8	120.000	160.0	V	-180.0	26.1	11.2	46.0

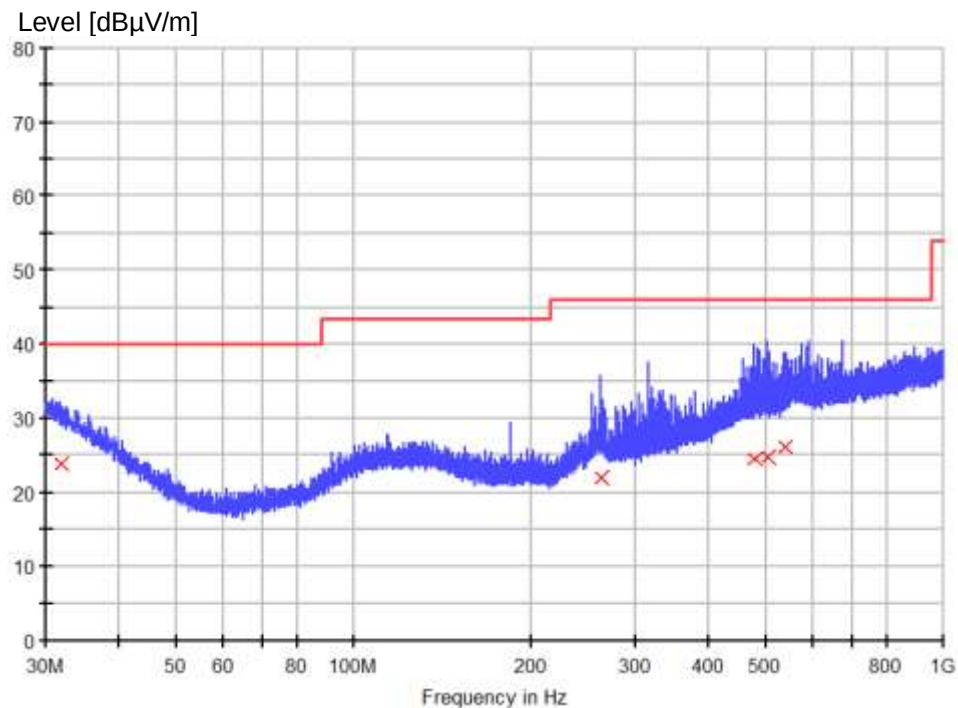
Figure 21: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Horizontal polarization mode 2 with sample 2#, forward direction



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBμV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
188.401000	22.3	120.000	150.0	H	-20.0	15.8	21.2	43.5
263.737667	27.8	120.000	140.0	H	145.0	20.7	18.2	46.0
293.969333	27.7	120.000	150.0	H	90.0	19.8	18.3	46.0
349.582667	29.8	120.000	180.0	H	180.0	21.1	16.2	46.0
352.137000	30.4	120.000	100.0	H	-157.0	21.3	15.6	46.0
361.610667	26.8	120.000	150.0	H	66.0	21.8	19.2	46.0
486.255667	31.1	120.000	160.0	H	180.0	24.8	14.9	46.0
499.706333	32.3	120.000	150.0	H	121.0	25.0	13.7	46.0
537.730333	36.9	120.000	140.0	H	27.0	25.3	9.1	46.0
564.420000	35.4	120.000	150.0	H	-180.0	26.2	10.6	46.0

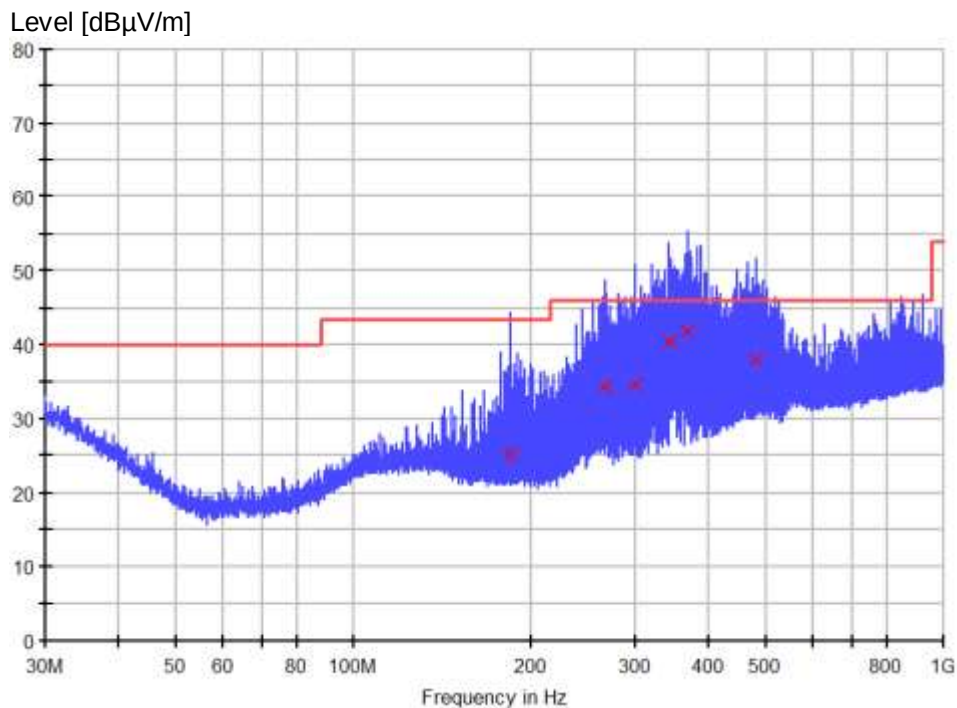
Figure 22: Spectral Diagrams, Radiated Emission, 30 MHz-1000 MHz, Vertical polarization on mode 2 with sample 2#, forward direction



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBμV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
31.778333	23.8	120.000	100.0	V	-180.0	24.6	16.2	40.0
262.994000	22.0	120.000	130.0	V	180.0	20.7	24.0	46.0
478.689667	24.5	120.000	110.0	V	-168.0	24.6	21.5	46.0
503.586333	24.9	120.000	110.0	V	5.0	24.9	21.1	46.0
539.541000	26.1	120.000	150.0	V	180.0	25.4	19.9	46.0

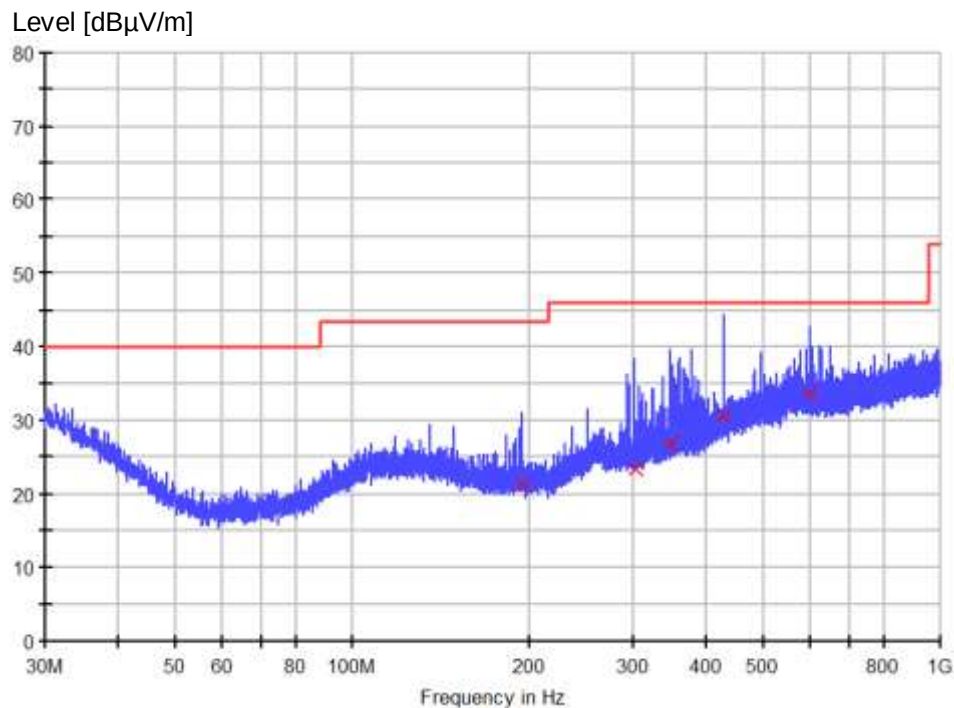
Figure 23: Spectral Diagrams, Radiated Emission, 30 MHz-1000 MHz, Horizontal polarization on mode 2 with sample 2#, backward direction



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBμV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
184.650333	25.2	120.000	100.0	H	180.0	15.8	18.3	43.5
267.391333	34.5	120.000	120.0	H	-77.0	20.2	11.5	46.0
299.789333	34.6	120.000	140.0	H	145.0	20.0	11.4	46.0
343.536333	40.6	120.000	150.0	H	-55.0	20.8	5.4	46.0
368.691667	41.8	120.000	160.0	H	100.0	21.8	4.2	46.0
481.955333	38.2	120.000	180.0	H	-180.0	24.7	7.8	46.0

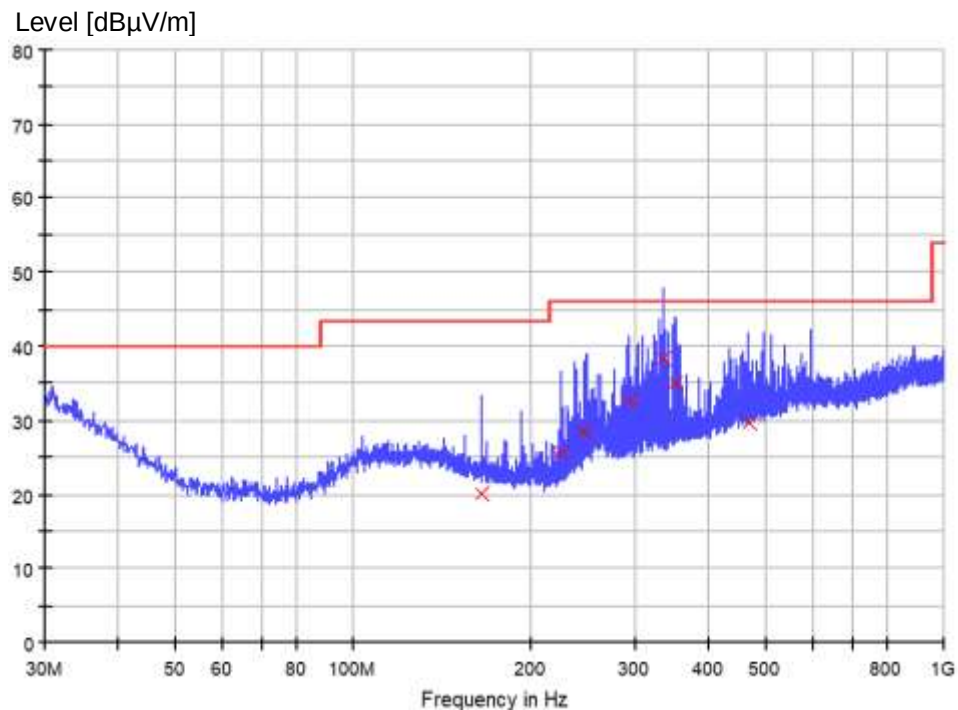
Figure 24: Spectral Diagrams, Radiated Emission, 30 MHz-1000 MHz, Vertical polarization on mode 2 with sample 2#, backward direction



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBμV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
193.509667	21.4	120.000	100.0	V	180.0	16.0	22.1	43.5
301.891000	23.5	120.000	120.0	V	66.0	20.0	22.5	46.0
347.060667	26.8	120.000	140.0	V	-140.0	21.0	19.2	46.0
427.570667	30.6	120.000	150.0	V	98.0	23.4	15.4	46.0
600.618667	33.8	120.000	160.0	V	-180.0	26.2	12.2	46.0

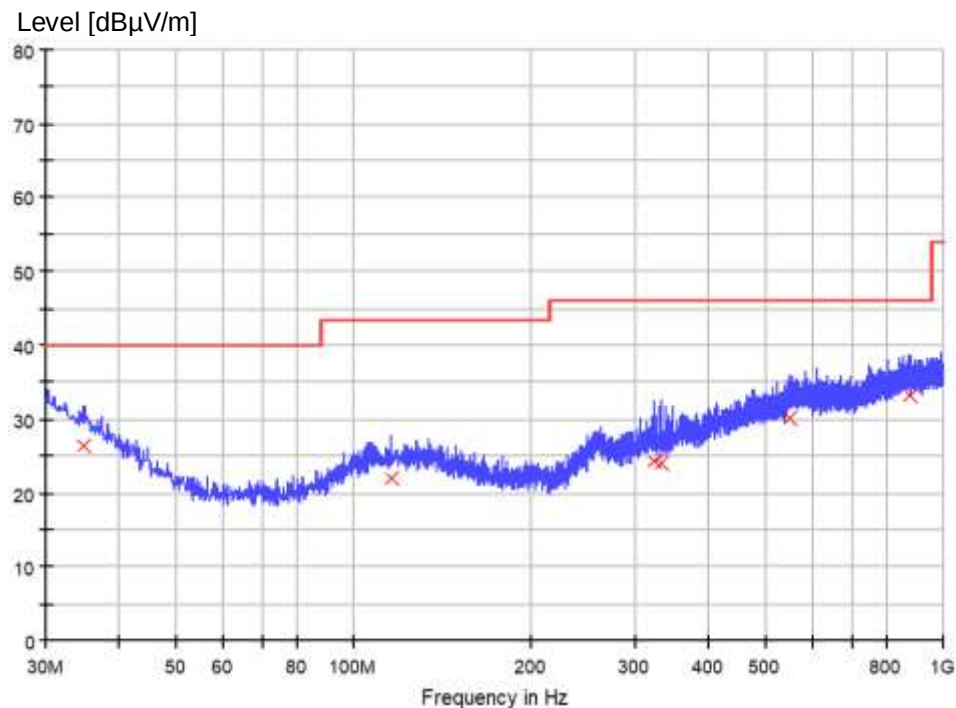
Figure 25: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Horizontal polarization mode 2 with sample 3#, forward direction



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBμV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
165.436250	20.0	120.000	160.0	H	-76.0	16.5	23.5	43.5
224.606250	25.6	120.000	100.0	H	134.0	16.4	20.4	46.0
245.946250	28.4	120.000	120.0	H	92.0	18.8	17.6	46.0
294.446250	32.8	120.000	130.0	H	-180.0	19.8	13.2	46.0
336.035000	38.5	120.000	110.0	H	173.0	20.6	7.5	46.0
351.676250	35.0	120.000	100.0	H	-180.0	21.2	11.0	46.0
467.712500	29.8	120.000	150.0	H	180.0	24.3	16.2	46.0

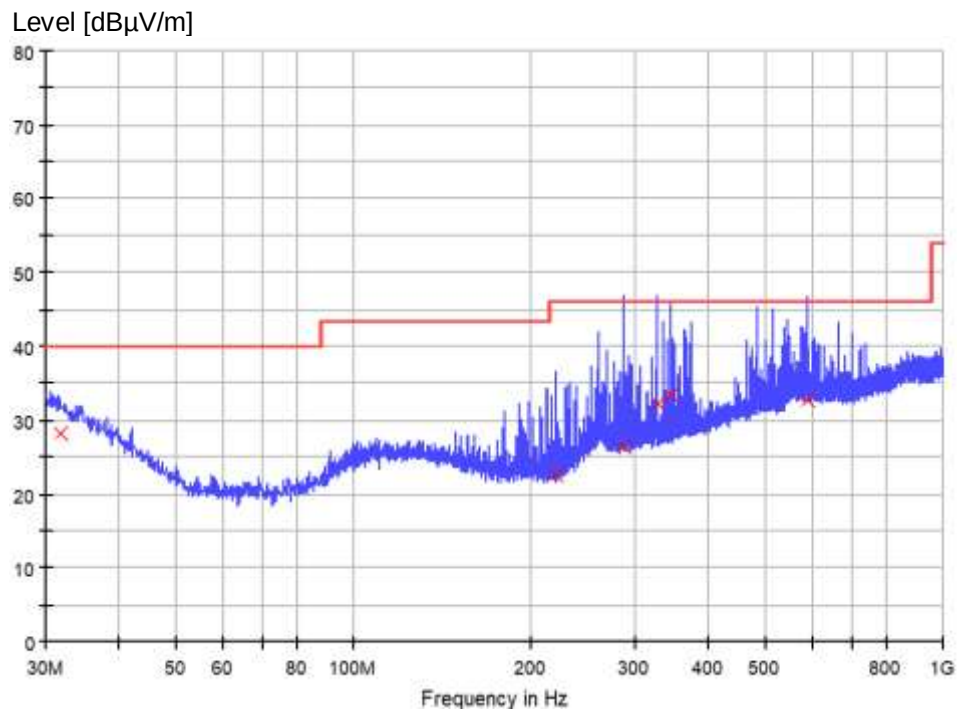
Figure 26: Spectral Diagrams, Radiated Emission, 30 MHz-1000 MHz, Vertical polarization on mode 2 with sample 3#, forward direction



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBμV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
34.728750	26.5	120.000	100.0	V	180.0	22.9	13.5	40.0
115.481250	21.9	120.000	150.0	V	-41.0	18.6	21.6	43.5
323.182500	24.2	120.000	120.0	V	-118.0	20.6	21.8	46.0
333.125000	24.2	120.000	165.0	V	124.0	20.6	21.8	46.0
549.798750	30.3	120.000	110.0	V	20.0	26.3	15.8	46.0
872.930000	33.1	120.000	130.0	V	-180.0	28.0	12.9	46.0

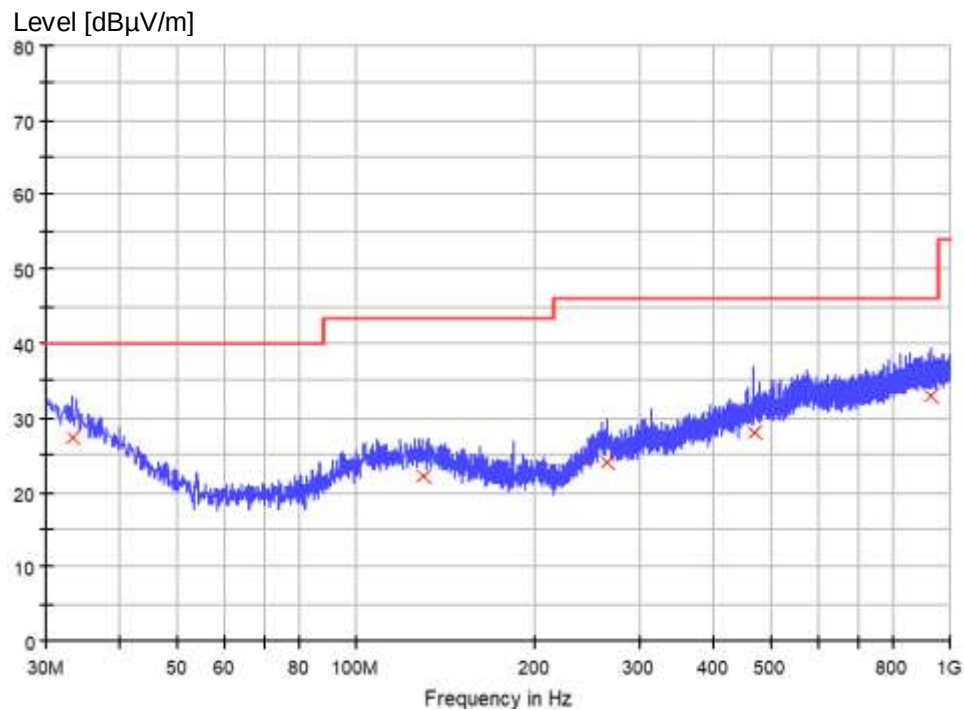
Figure 27: Spectral Diagrams, Radiated Emission, 30 MHz-1000 MHz, Horizontal polarization on mode 2 with sample 3#, backward direction



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBμV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
31.818750	28.3	120.000	150.0	H	180.0	24.6	11.7	40.0
219.513750	22.7	120.000	110.0	H	-180.0	15.9	23.3	46.0
286.201250	26.5	120.000	180.0	H	98.0	19.6	19.5	46.0
327.911250	32.3	120.000	165.0	H	-112.0	20.6	13.8	46.0
344.886250	33.5	120.000	150.0	H	180.0	20.9	12.5	46.0
589.083750	32.7	120.000	120.0	H	-39.0	26.3	13.4	46.0

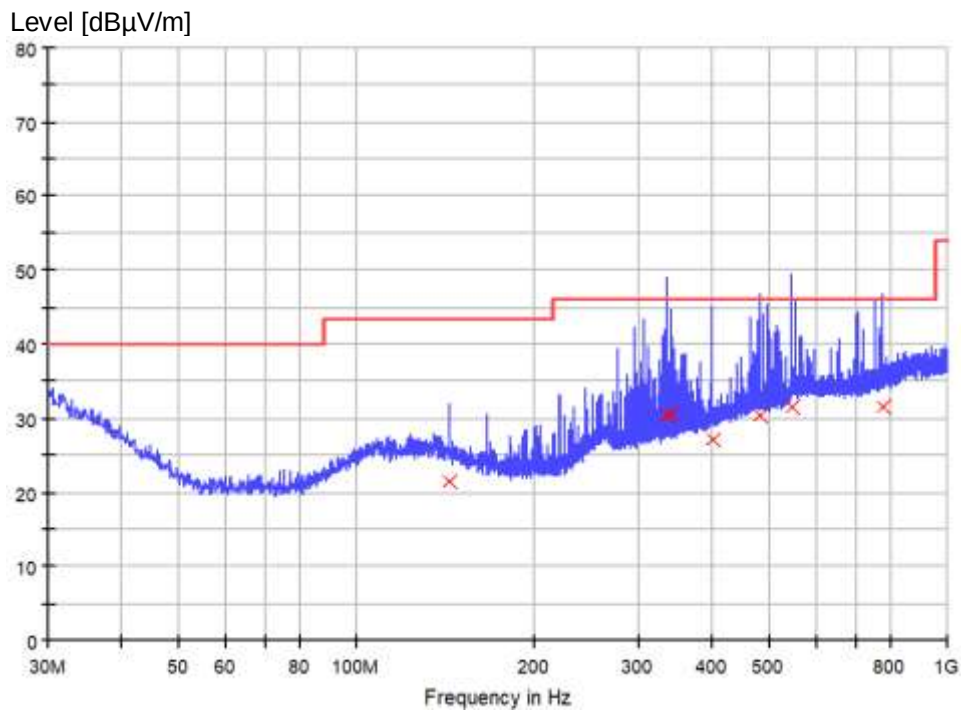
Figure 28: Spectral Diagrams, Radiated Emission, 30 MHz-1000 MHz, Vertical polarization on mode 2 with sample 3#, backward direction



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBμV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
33.152500	27.4	120.000	150.0	V	48.0	23.7	12.6	40.0
129.182500	22.1	120.000	120.0	V	-180.0	18.7	21.4	43.5
264.618750	24.1	120.000	160.0	V	87.0	20.7	21.9	46.0
467.227500	28.0	120.000	150.0	V	101.0	24.3	18.0	46.0
929.917500	33.0	120.000	110.0	V	180.0	28.1	13.0	46.0

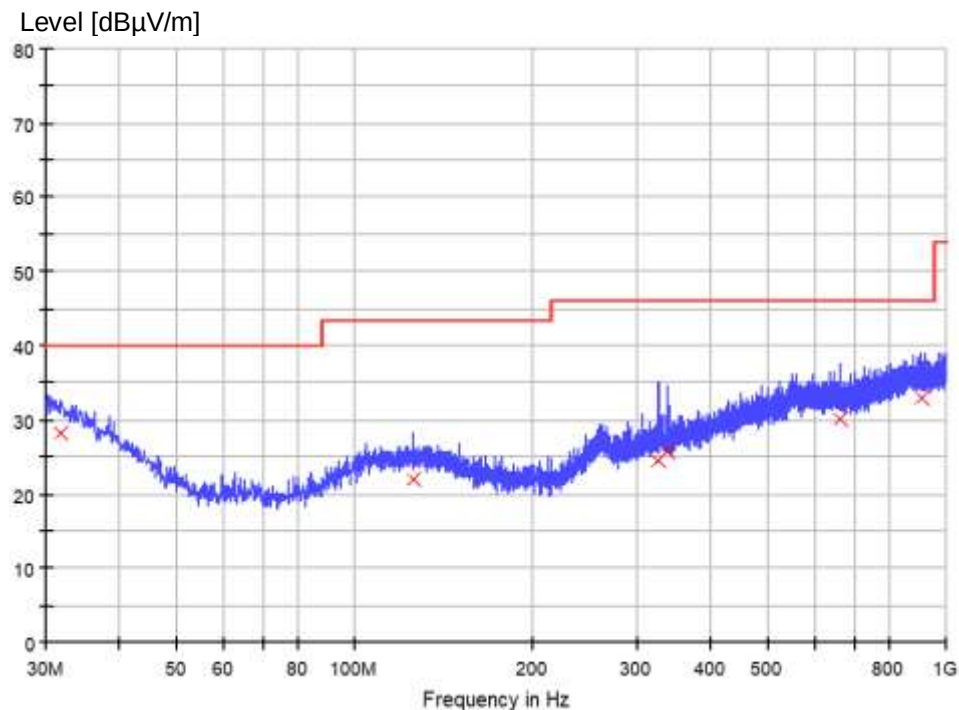
Figure 29: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Horizontal polarization mode 2 with sample 4#, forward direction



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBμV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
143.247500	21.5	120.000	100.0	H	-76.0	17.9	22.0	43.5
336.156250	30.3	120.000	165.0	H	-180.0	20.6	15.7	46.0
340.521250	30.6	120.000	130.0	H	180.0	20.7	15.4	46.0
399.085000	27.2	120.000	110.0	H	-152.0	22.5	18.8	46.0
482.020000	30.5	120.000	130.0	H	180.0	24.7	15.5	46.0
547.010000	31.5	120.000	100.0	H	-114.0	26.1	14.5	46.0
778.233750	31.6	120.000	150.0	H	172.0	27.2	14.4	46.0

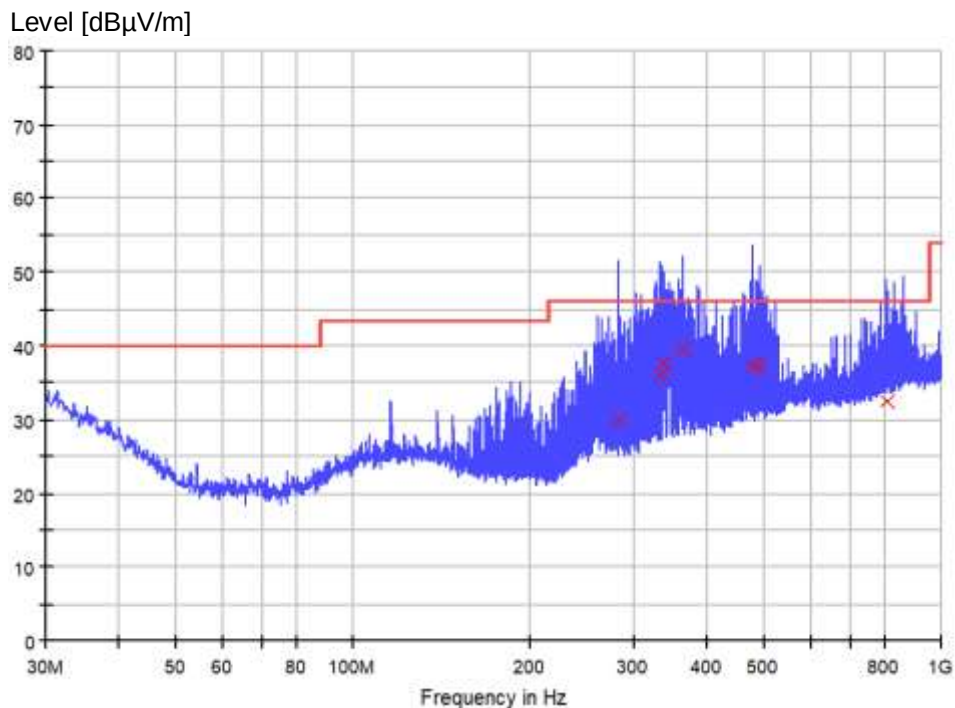
Figure 30: Spectral Diagrams, Radiated Emission, 30 MHz-1000 MHz, Vertical polarization on mode 2 with sample 4#, forward direction



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBμV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
31.940000	28.3	120.000	110.0	V	-180.0	24.5	11.8	40.0
125.302500	22.0	120.000	165.0	V	124.0	18.8	21.5	43.5
326.698750	24.5	120.000	110.0	V	-142.0	20.6	21.5	46.0
336.641250	25.7	120.000	150.0	V	180.0	20.6	20.3	46.0
662.318750	30.3	120.000	130.0	V	-103.0	26.3	15.7	46.0
906.516250	33.1	120.000	100.0	V	-114.0	28.0	12.9	46.0

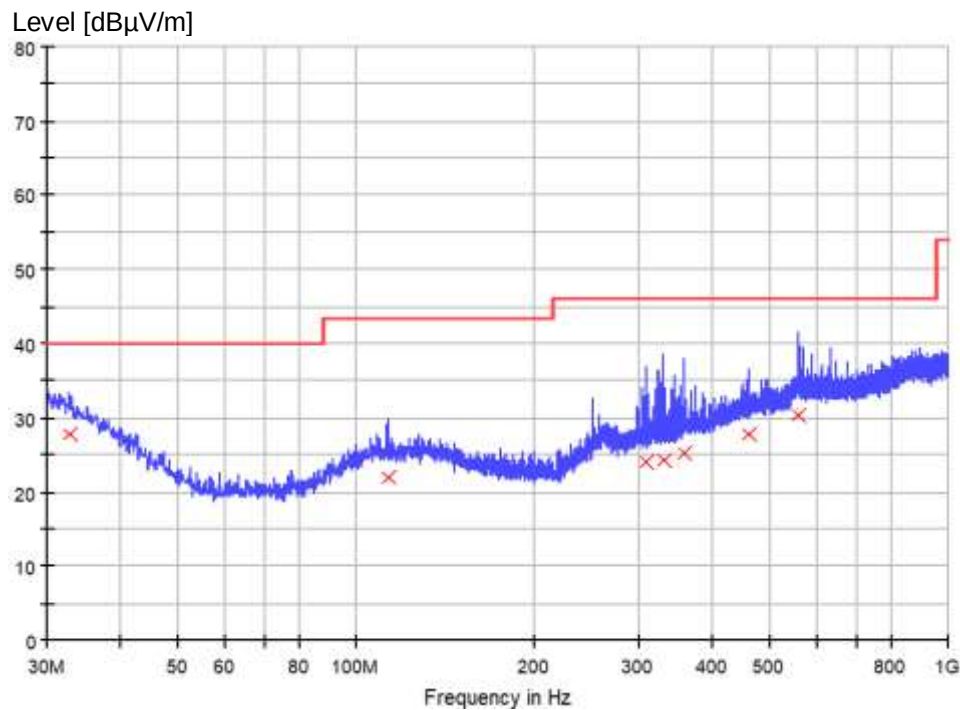
Figure 31: Spectral Diagrams, Radiated Emission, 30 MHz-1000 MHz, Horizontal polarization on mode 2 with sample 4#, backward direction



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBμV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
282.200000	30.1	120.000	100.0	H	35.0	19.6	16.0	46.0
332.761250	35.9	120.000	110.0	H	180.0	20.6	10.1	46.0
338.460000	37.6	120.000	160.0	H	-180.0	20.7	8.5	46.0
363.437500	39.6	120.000	100.0	H	125.0	21.8	6.4	46.0
478.261250	37.4	120.000	135.0	H	180.0	24.6	8.6	46.0
491.598750	37.1	120.000	150.0	H	-114.0	24.9	8.9	46.0
805.878750	32.4	120.000	120.0	H	92.0	27.4	13.6	46.0

Figure 32: Spectral Diagrams, Radiated Emission, 30 MHz-1000 MHz, Vertical polarization on mode 2 with sample 4#, backward direction



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBμV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
32.667500	27.8	120.000	100.0	V	-138.0	24.0	12.2	40.0
113.420000	22.1	120.000	165.0	V	85.0	18.6	21.4	43.5
308.875000	24.0	120.000	180.0	V	160.0	20.2	22.0	46.0
329.366250	24.3	120.000	150.0	V	94.0	20.6	21.7	46.0
357.860000	25.2	120.000	110.0	V	-180.0	21.6	20.8	46.0
459.588750	27.9	120.000	150.0	V	180.0	24.3	18.1	46.0
559.741250	30.4	120.000	120.0	V	-126.0	26.3	15.6	46.0

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6 Photographs of the Test Set-Up

Refer to the test setup file.

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7 List of Test and Measurement Instruments

Equip.	Description	Model	Manufacturer	Last Date DD.MM.YYYY	Due Date DD.MM.YYYY
9023229	EMI test receiver	ESR3	Rohde&Schwarz	11.08.2022	11.08.2023
G1811403	Artificial mains network	ENV216	Rohde&Schwarz	19.10.2022	19.10.2023
G1824248	Dual display multimeter	F45	Fluke	08.10.2022	08.10.2024
G1811378	3m modified semi-anechoic chamber	SAC3	Frankonia	10.06.2021	10.06.2024
9042162	EMI test receiver	ESR7	Rohde&Schwarz	02.03.2022	02.03.2023
G1811425	Bilog antenna	CBL 6112D	Teseq	10.03.2020	10.03.2023

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