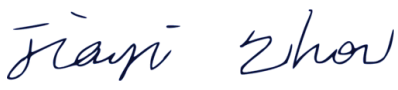


Prüfbericht-Nr.: <i>Test Report No.:</i>	50300061 001	Auftrags-Nr.: <i>Order No.:</i>	244156287 244169075	Seite 1 von 25 <i>Page 1 of 25</i>
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	60051577	Auftragsdatum: <i>Order date.:</i>	05.07.2019	
Auftraggeber: <i>Client:</i>	IKEA of Sweden AB Box 702, SE-343 81 Älmhult, Sweden			
Prüfgegenstand: <i>Test item:</i>	Power Supply			
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	ICPSW5-40-1			
Auftrags-Inhalt: <i>Order content:</i>	EMC test			
Prüfgrundlage: <i>Test specification:</i>	FCC 47 CFR Part 15, Subpart B:2018 Class B ICES-003:2016			
Wareneingangsdatum: <i>Date of receipt:</i>	10.07.2019	Refer to the EUT photos file		
Prüfmuster-Nr.: <i>Test sample No.:</i>	A000952429-001			
Prüfzeitraum: <i>Testing period:</i>	Refer to test report			
Ort der Prüfung: <i>Place of testing:</i>	EMC laboratory			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shanghai) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von / tested by:		kontrolliert von / reviewed by:		
				
30.08.2019	Jessie Xu/Senior project engineer	30.08.2019	Jiayi Zhou/Senior manager	
Datum <i>Date</i>	Name/Stellung <i>Name/Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name/Stellung <i>Name/Position</i>
				Unterschrift <i>Signature</i>
Sonstiges / Other:				
FCC ID: FHO-ICPSW5-40-1 Test Firm Registration Number: 958801				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specifications(s) F(ail) = failed a.m. test specifications(s) N/A = not applicable N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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TEST SUMMARY

4.1.1 MAINS TERMINAL CONTINUOUS DISTURBANCE VOLTAGE

Result:

Passed

4.2.1 RADIATED EMISSION

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.

1.2 List of Test and Measurement Instruments

Table 1: List of test and measurement equipment

No.	Equipment	Model	Serial no./ software version	Cal. Due date	Cal. interval
1.	EMI test receiver	ESIB26	100227	19.04.2020	1 year
2.	Artificial mains network	ENV216	100122	19.09.2019	1 year
3.	3m modified semi-anechoic chamber	SAC3	FJ129002	14.05.2020	3 years
4.	EMI test receiver	ESCI	100280	02.11.2019	1 year
5.	Bilog antenna	CBL 6112D	40530	14.02.2020	3 years
6.	EMC measurement software	EMC32	10.20.01	N/A	N/A

2 General Product Information

2.1 Product Function and Intended Use

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

2.2 Ratings and System Details

System input	: AC 100 – 240 V, 50/60 Hz, Max. 1.2 A
Output USB-C	: DC 5 V 3 A, DC 9 V 3 A, DC 12 V 2.5 A, DC 15 V 2 A, DC 20 V 1.5 A
Output USB-A	: 1 x DC 5 V 2 A, 2 x DC 5 V 1 A
Protection class	: II

2.3 Independent Operation Modess

The basic operation modes are: “ON” and “OFF” etc.

The test modes are following:

Mode 1	Output USB-C: DC 5 V 3 A	Output USB-A: 1 x DC 5V 2 A
Mode 2	Output USB-C: DC 12 V 2.5 A	Output USB-A: 2 x DC 5V 1 A
Mode 3	Output USB-C: DC 20 V 1.5 A	Output USB-A: 1 x DC 5V 2 A

2.4 Description of interconnecting cables

None.

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 less than 108 MHz.

2.7 Submitted Documents

Circuit diagram, user's manual and rating 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.

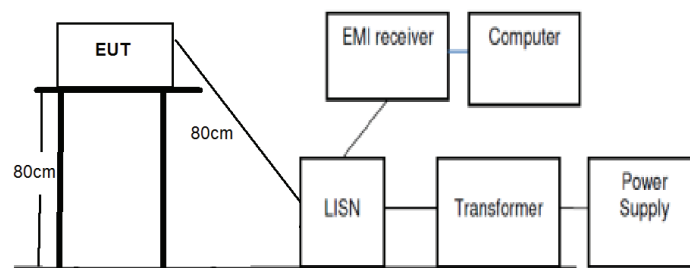
Refer to the related paragraph of this report.

The sequence of testing:

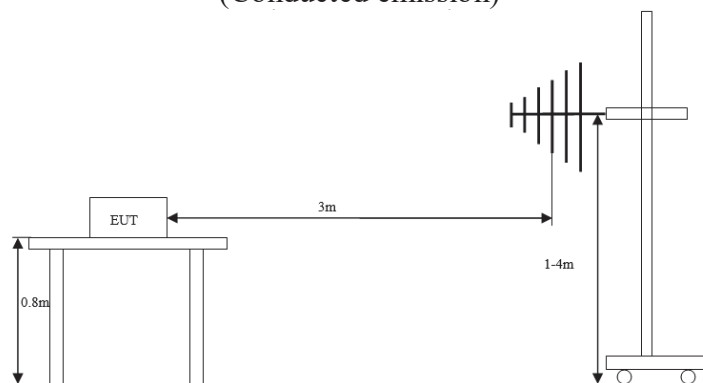
1. Radiated emission tests were performed on 25.07.2019;
2. Conducted emission tests were performed on 26.07.2019.

3.2 Equipment and cable arrangement

Block diagram for both conducted emission and radiated emission tests is as follows:



(Conducted emission)



(Radiated emission)

Also refer to photographs on clause 5 for test setups for both conducted emission test and radiated emission test.

3.3 Test Software

No special test software was used during the tests.

3.4 Special Accessories and Auxiliary Equipment

During the tests, the matched resistor was used as load.

3.5 Countermeasures to achieve EMC Compliance

No other special measure is employed to achieve the requirement.

4 Test Results EMISSION

4.1 Emission in the Frequency Range up to 30 MHz

4.1.1 Mains Terminal Continuous Disturbance Voltage

Result:		Passed
Date of testing	: 26.07.2019	
Test procedure	: FCC 47 CFR Part 15, Subpart B:2018, ICES-003:2016, ANSI C63.4-2014 and CISPR 16-1 series standards	
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	
Operational mode	: Mode 1, Mode 2 & Mode 3 as defined in clause 2.3	
Ambient condition	: Temperature: 24.8 °C; Relative humidity: 42.8 %	
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, Blue “◆” means Quasi-Peak Value and green “◆” means Average Value results.

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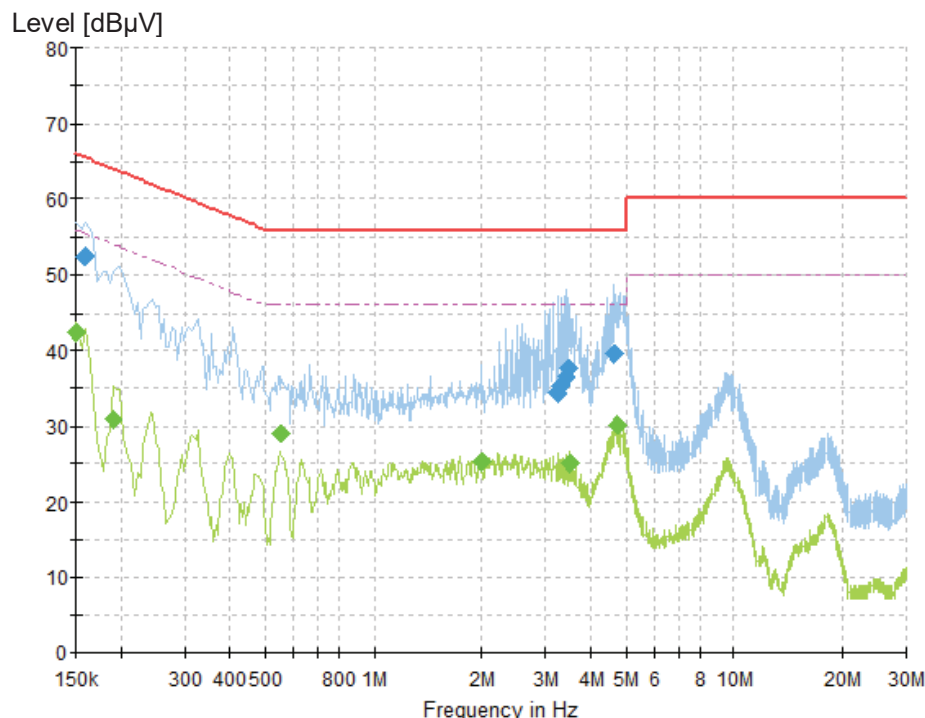
Notes on following tables of conducted emission results and conversions:

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 for Mode 1



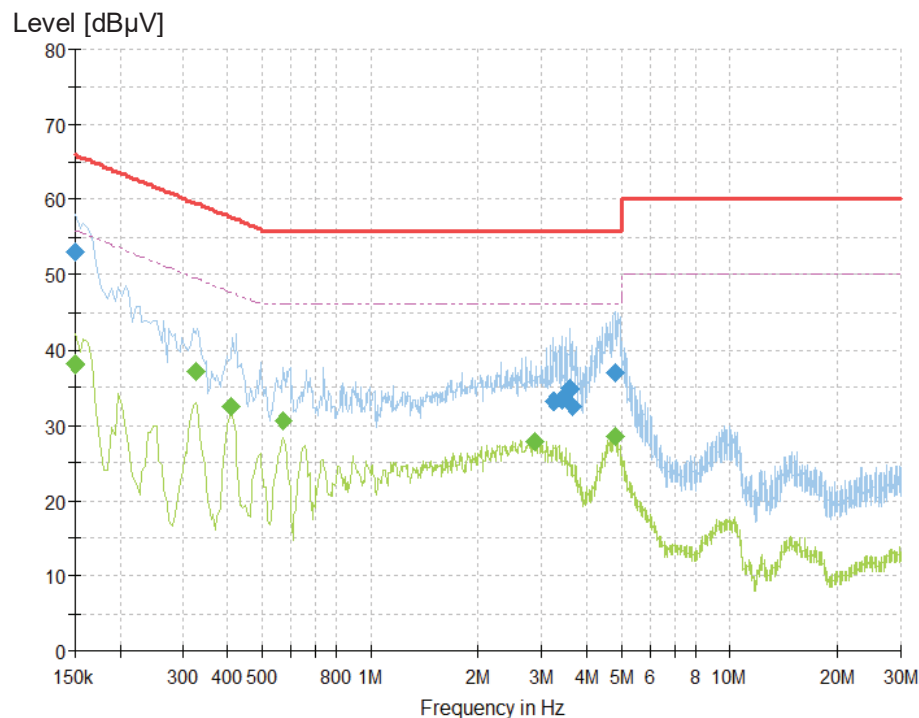
Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.159000	52.35	65.52	13.17	1000.0	9.000	L1	9.8
3.232500	34.40	56.00	21.60	1000.0	9.000	L1	9.5
3.318000	35.29	56.00	20.71	1000.0	9.000	L1	9.5
3.403500	36.50	56.00	19.50	1000.0	9.000	L1	9.5
3.475500	37.70	56.00	18.30	1000.0	9.000	L1	9.5
4.659000	39.60	56.00	16.40	1000.0	9.000	L1	9.5

Final Average measurement result:

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.150000	42.30	56.00	13.70	1000.0	9.000	L1	9.8
0.190500	30.96	54.02	23.06	1000.0	9.000	L1	9.6
0.550500	28.94	46.00	17.06	1000.0	9.000	L1	9.6
1.990500	25.33	46.00	20.67	1000.0	9.000	L1	9.5
3.480000	25.09	46.00	20.91	1000.0	9.000	L1	9.5
4.726500	30.10	46.00	15.90	1000.0	9.000	L1	9.5

Figure 2: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, N for Mode 1



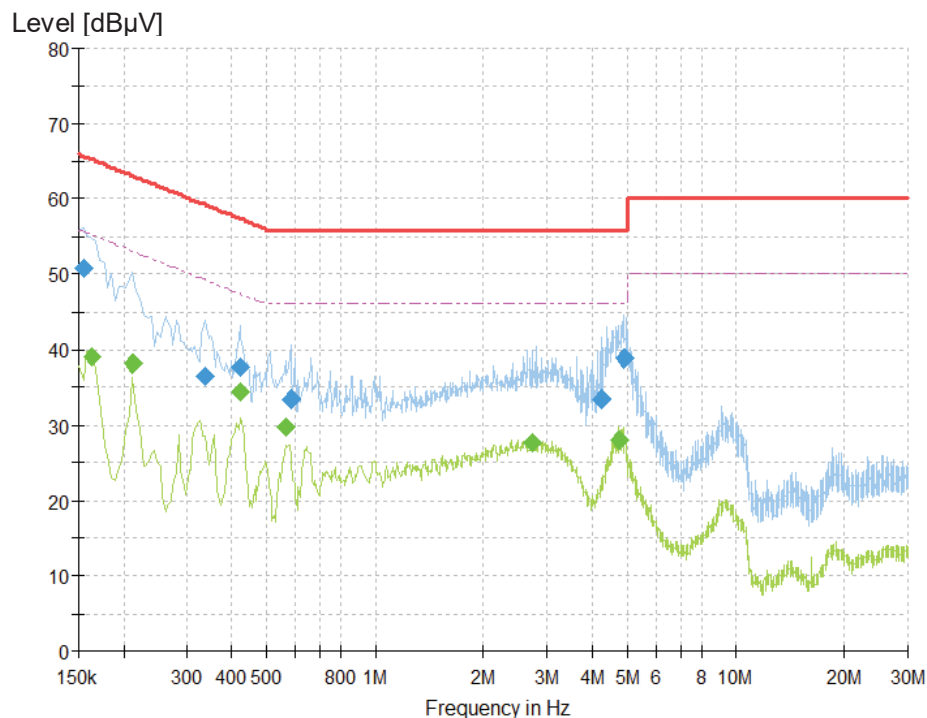
Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.150000	53.13	66.00	12.87	1000.0	9.000	N	9.7
3.241500	33.25	56.00	22.75	1000.0	9.000	N	9.4
3.412500	33.42	56.00	22.58	1000.0	9.000	N	9.4
3.597000	34.79	56.00	21.21	1000.0	9.000	N	9.4
3.664500	32.44	56.00	23.56	1000.0	9.000	N	9.4
4.771500	36.87	56.00	19.13	1000.0	9.000	N	9.4

Final Average measurement result:

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.150000	38.22	56.00	17.78	1000.0	9.000	N	9.7
0.325500	37.20	49.57	12.37	1000.0	9.000	N	9.6
0.406500	32.51	47.72	15.21	1000.0	9.000	N	9.6
0.573000	30.76	46.00	15.24	1000.0	9.000	N	9.6
2.859000	27.92	46.00	18.08	1000.0	9.000	N	9.5
4.821000	28.63	46.00	17.37	1000.0	9.000	N	9.4

Figure 3: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, L for Mode 2



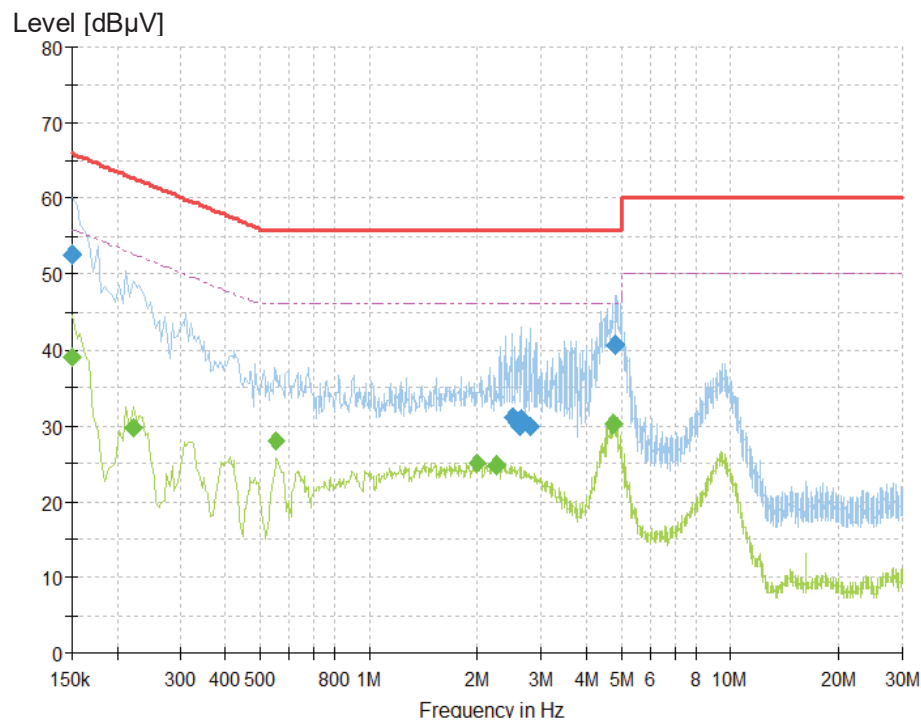
Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.154500	50.84	65.75	14.92	1000.0	9.000	L1	9.8
0.339000	36.50	59.23	22.72	1000.0	9.000	L1	9.6
0.420000	37.74	57.45	19.71	1000.0	9.000	L1	9.7
0.582000	33.45	56.00	22.55	1000.0	9.000	L1	9.6
4.245000	33.37	56.00	22.63	1000.0	9.000	L1	9.5
4.893000	38.94	56.00	17.06	1000.0	9.000	L1	9.5

Final Average measurement result:

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.163500	38.97	55.28	16.31	1000.0	9.000	L1	9.7
0.213000	38.24	53.09	14.85	1000.0	9.000	L1	9.6
0.424500	34.42	47.36	12.94	1000.0	9.000	L1	9.7
0.564000	29.69	46.00	16.31	1000.0	9.000	L1	9.6
2.719500	27.59	46.00	18.41	1000.0	9.000	L1	9.5
4.767000	28.08	46.00	17.92	1000.0	9.000	L1	9.5

Figure 4: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, N for Mode 2



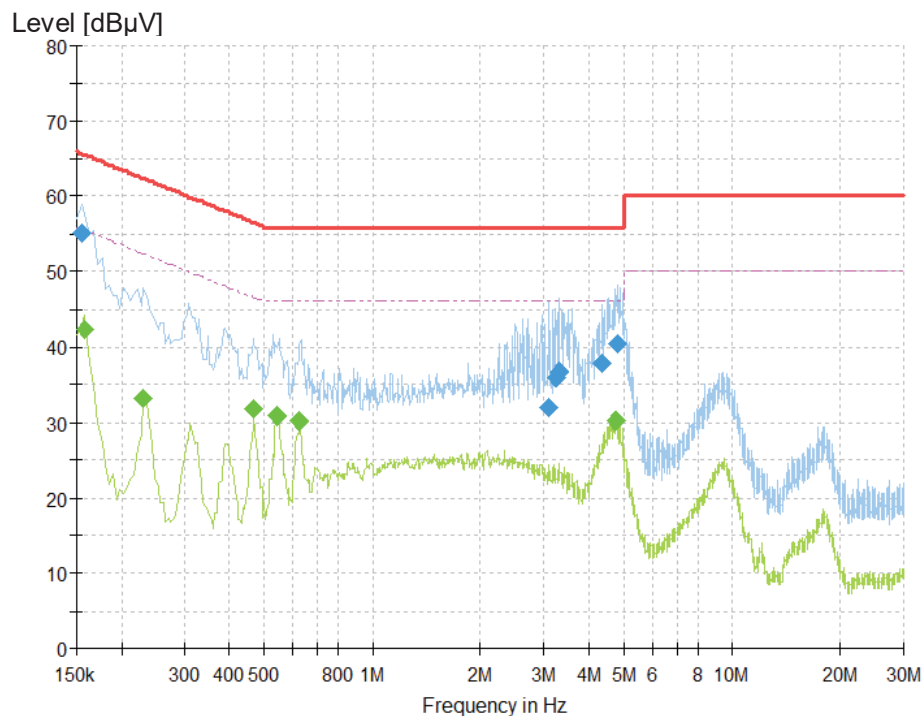
Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.150000	52.68	66.00	13.32	1000.0	9.000	N	9.7
2.503500	31.20	56.00	24.80	1000.0	9.000	N	9.5
2.607000	30.00	56.00	26.00	1000.0	9.000	N	9.5
2.634000	30.94	56.00	25.06	1000.0	9.000	N	9.5
2.782500	29.91	56.00	26.09	1000.0	9.000	N	9.5
4.812000	40.73	56.00	15.27	1000.0	9.000	N	9.4

Final Average measurement result:

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.150000	38.96	56.00	17.04	1000.0	9.000	N	9.7
0.222000	29.82	52.74	22.92	1000.0	9.000	N	9.5
0.555000	27.95	46.00	18.05	1000.0	9.000	N	9.6
1.995000	24.97	46.00	21.03	1000.0	9.000	N	9.5
2.265000	24.73	46.00	21.27	1000.0	9.000	N	9.5
4.744500	30.06	46.00	15.94	1000.0	9.000	N	9.4

Figure 5: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, L for Mode 3



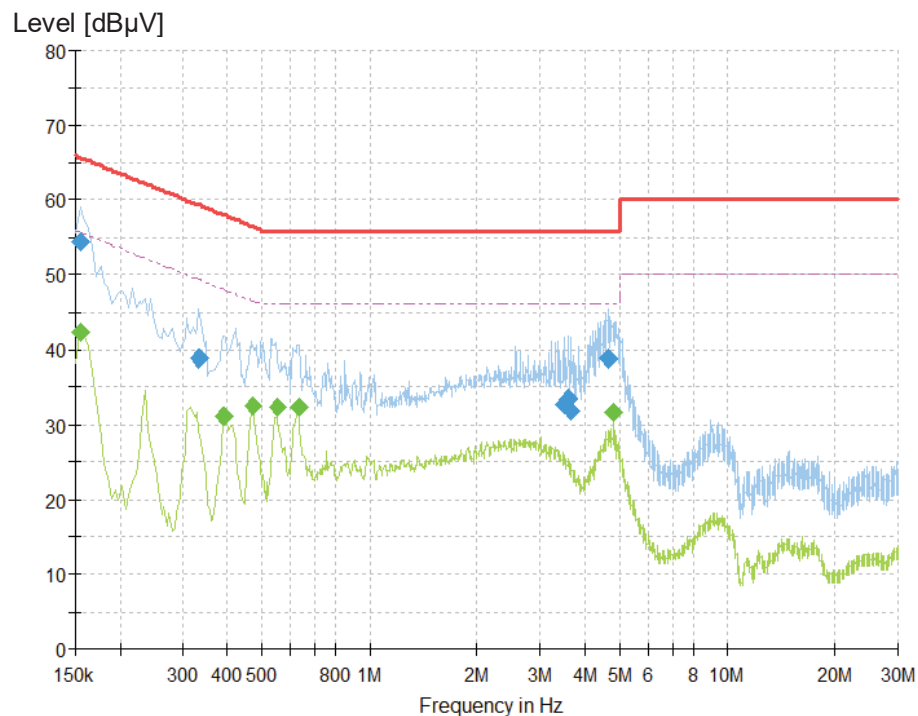
Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.154500	55.21	65.75	10.55	1000.0	9.000	L1	9.8
3.088500	31.95	56.00	24.05	1000.0	9.000	L1	9.5
3.241500	36.06	56.00	19.94	1000.0	9.000	L1	9.5
3.318000	36.78	56.00	19.22	1000.0	9.000	L1	9.5
4.339500	37.84	56.00	18.16	1000.0	9.000	L1	9.5
4.776000	40.56	56.00	15.44	1000.0	9.000	L1	9.5

Final Average measurement result:

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.159000	42.29	55.52	13.23	1000.0	9.000	L1	9.8
0.231000	33.11	52.41	19.30	1000.0	9.000	L1	9.6
0.469500	31.75	46.52	14.77	1000.0	9.000	L1	9.7
0.541500	30.81	46.00	15.19	1000.0	9.000	L1	9.6
0.627000	30.18	46.00	15.82	1000.0	9.000	L1	9.6
4.744500	30.27	46.00	15.73	1000.0	9.000	L1	9.5

Figure 6: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, N for Mode 3



Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.154500	54.58	65.75	11.18	1000.0	9.000	N	9.7
0.334500	38.91	59.34	20.43	1000.0	9.000	N	9.6
3.489000	32.73	56.00	23.27	1000.0	9.000	N	9.4
3.583500	33.36	56.00	22.64	1000.0	9.000	N	9.4
3.673500	31.87	56.00	24.13	1000.0	9.000	N	9.4
4.636500	38.92	56.00	17.08	1000.0	9.000	N	9.4

Final Average measurement result:

Frequency (MHz)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.154500	42.32	55.75	13.44	1000.0	9.000	N	9.7
0.388500	31.08	48.10	17.01	1000.0	9.000	N	9.6
0.474000	32.49	46.44	13.95	1000.0	9.000	N	9.6
0.550500	32.17	46.00	13.83	1000.0	9.000	N	9.6
0.631500	32.30	46.00	13.70	1000.0	9.000	N	9.6
4.794000	31.65	46.00	14.35	1000.0	9.000	N	9.4

4.2 Emission in the Frequency Range above 30 MHz

4.2.1 Radiated emission

Result:		Passed
Date of testing	: 25.07.2019	
Test procedure	: FCC 47 CFR Part 15, Subpart B:2018, ICES-003:2016, ANSI C63.4-2014 and CISPR 16-1 series standards	
Frequency range	: 30 – 1000 MHz Note: The highest frequency in the EUT is 52 kHz. According to FCC Part 15 subpart B §15.33 (b) (1), the upper frequency for radiated emission measurement is 1000 MHz.	
Limits	: Quasi-peak limits (3 m distance): 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	
Operational mode	: Mode 1, Mode 2 & Mode 3 as defined in clause 2.3	
Ambient condition	: Temperature: 21.0 °C; Relative humidity: 42.0 %	
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 a 0.8 m high wooden table above the reference ground plane. The wooden table 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, “x” means quasi-peak test results.

Notes on following tables of radiated emission results and conversions:

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

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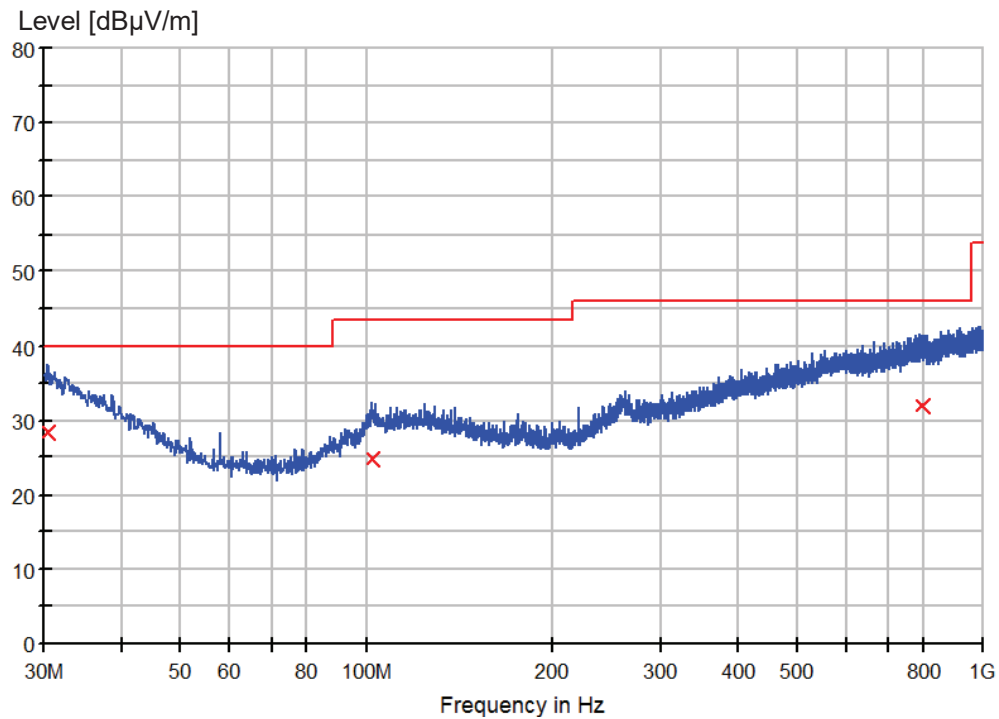
Corr. (dB): correction factor including: antenna factor, cable loss, and gain of pre-amplifier (if used)

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

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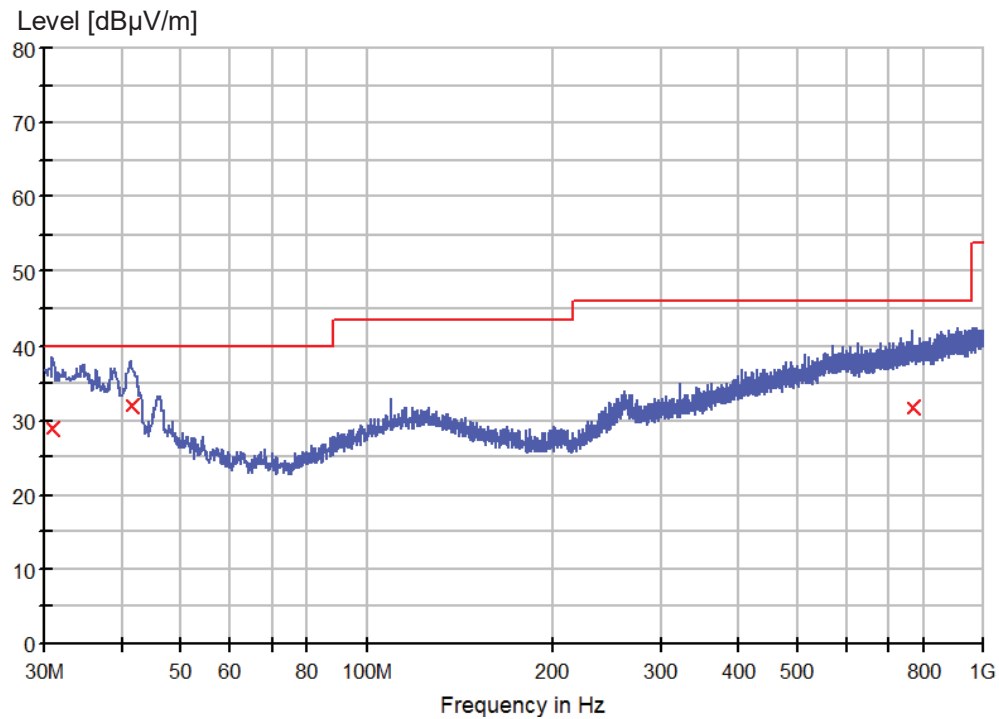
Figure 7: Spectral Diagrams and measurement results, horizontal polarization (30 MHz to 1 GHz) for Mode 1



Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
30.485000	28.4	1000.0	120.000	200.0	H	-90.0	25.1	11.6	40.0
102.265000	24.9	1000.0	120.000	200.0	H	0.0	17.9	18.6	43.5
796.178750	32.0	1000.0	120.000	200.0	H	20.0	28.3	14.0	46.0

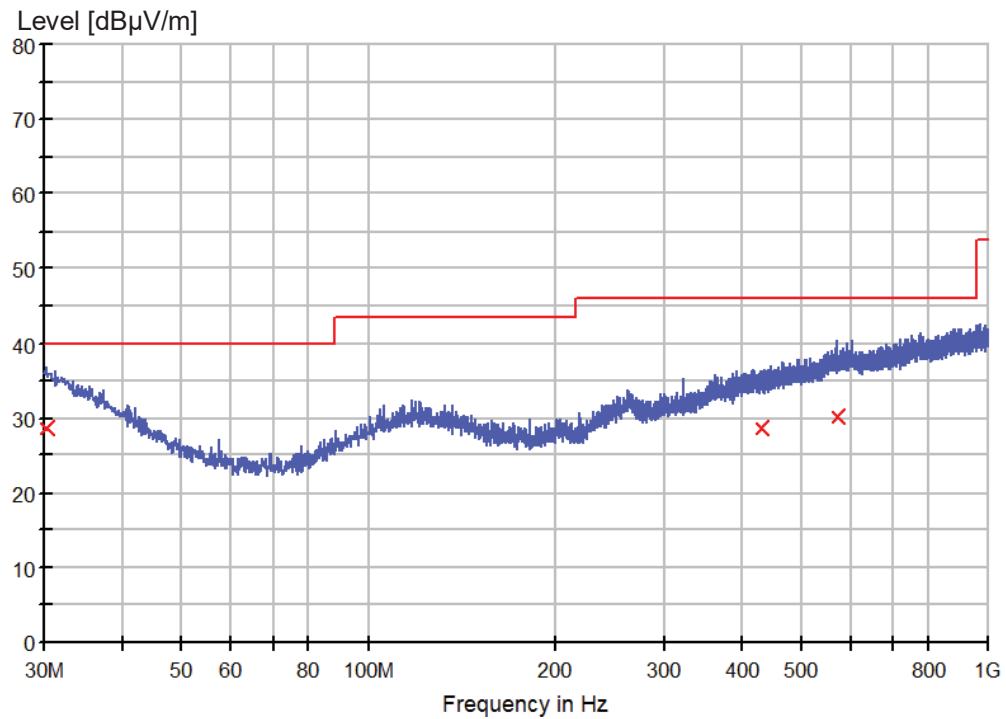
Figure 8: Spectral Diagrams and measurement results, vertical polarization (30 MHz to 1 GHz) for Mode 1



Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
30.970000	29.0	1000.0	120.000	100.0	V	0.0	24.9	11.0	40.0
41.518750	32.0	1000.0	120.000	100.0	V	90.0	18.9	8.0	40.0
769.988750	31.6	1000.0	120.000	100.0	V	100.0	28.1	14.4	46.0

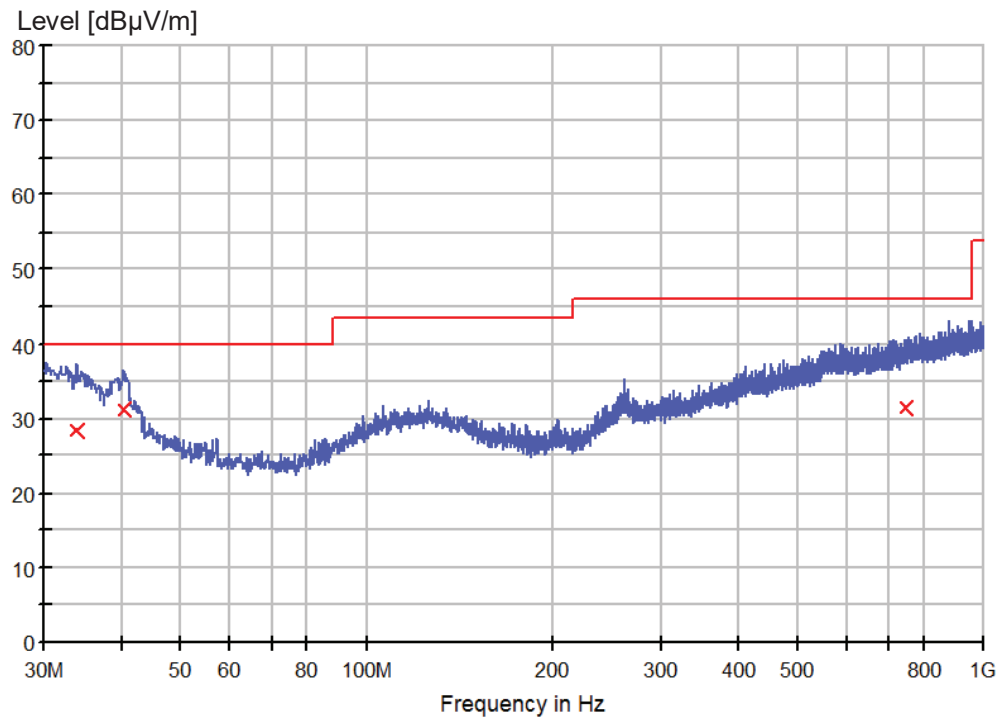
Figure 9: Spectral Diagrams and measurement results, horizontal polarization (30 MHz to 1 GHz) for Mode 2



Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
30.121250	28.6	1000.0	120.000	200.0	H	0.0	25.3	11.4	40.0
429.276250	28.6	1000.0	120.000	200.0	H	20.0	23.9	17.4	46.0
569.805000	30.2	1000.0	120.000	200.0	H	-30.0	26.6	15.8	46.0

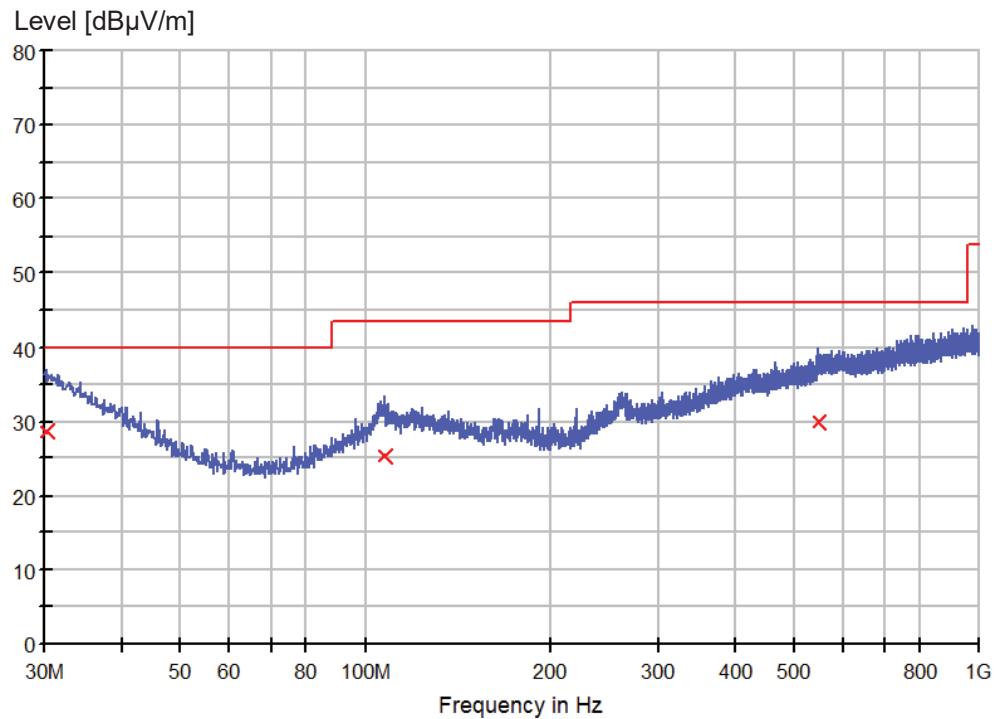
Figure 10: Spectral Diagrams and measurement results, vertical polarization (30 MHz to 1 GHz) for Mode 2



Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
33.880000	28.5	1000.0	120.000	100.0	V	20.0	23.2	11.5	40.0
40.427500	31.3	1000.0	120.000	100.0	V	-15.0	19.5	8.7	40.0
749.133750	31.6	1000.0	120.000	100.0	V	-90.0	28.0	14.4	46.0

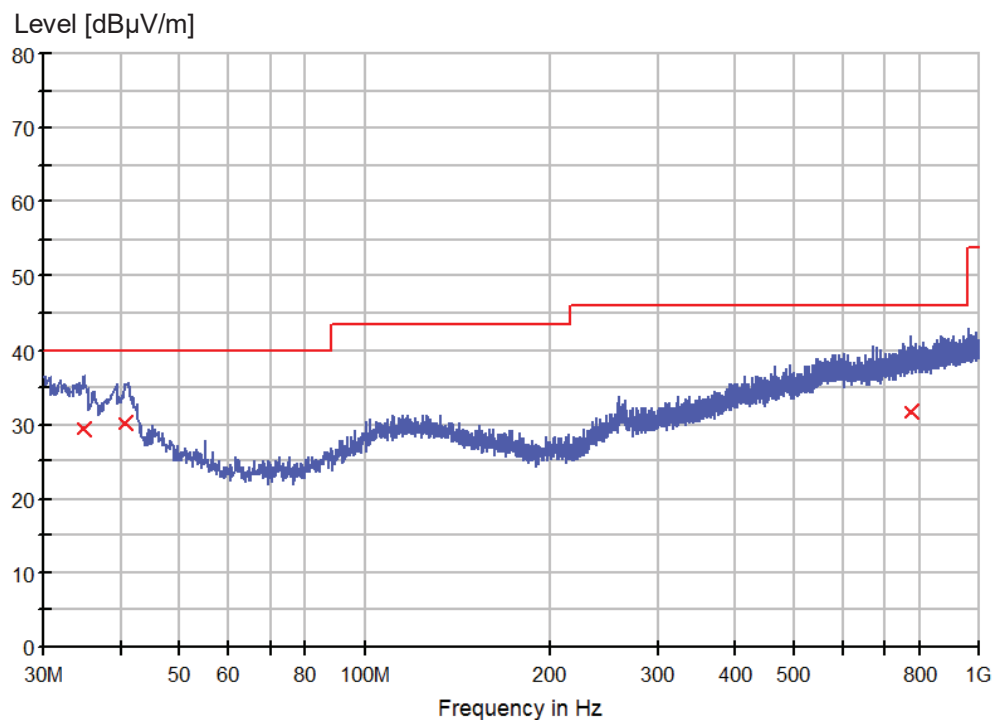
Figure 11: Spectral Diagrams and measurement results, horizontal polarization (30 MHz to 1 GHz) for Mode 3



Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
30.121250	28.6	1000.0	120.000	200.0	H	-90.0	25.3	11.4	40.0
106.993750	25.3	1000.0	120.000	200.0	H	45.0	18.5	18.2	43.5
546.403750	29.8	1000.0	120.000	200.0	H	85.0	26.3	16.2	46.0

Figure 12: Spectral Diagrams and measurement results, vertical polarization (30 MHz to 1 GHz) for Mode 3



Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
34.850000	29.3	1000.0	120.000	100.0	V	-45.0	22.7	10.7	40.0
40.548750	30.2	1000.0	120.000	100.0	V	-25.0	19.4	9.8	40.0
774.353750	31.7	1000.0	120.000	100.0	V	10.0	28.1	14.3	46.0

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5 Photographs of the Test Set-Up

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End of test report