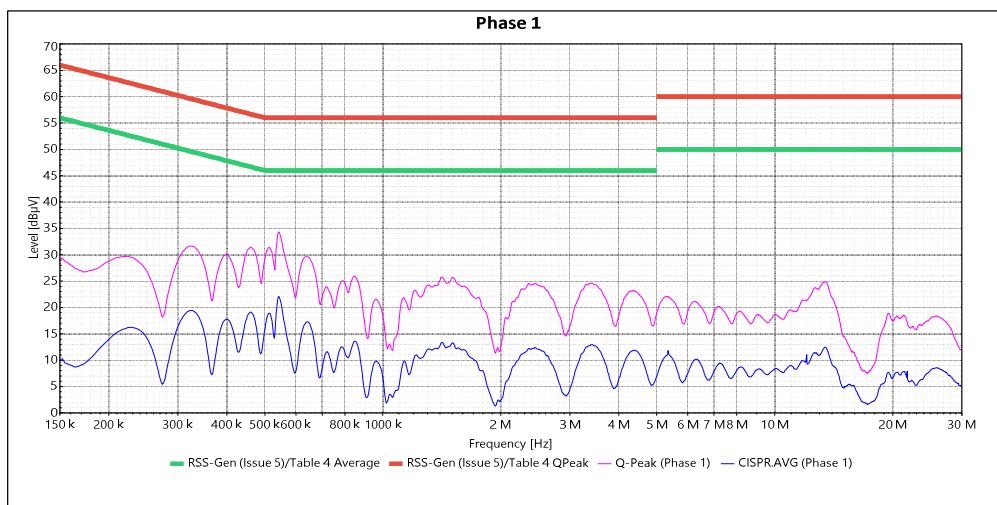
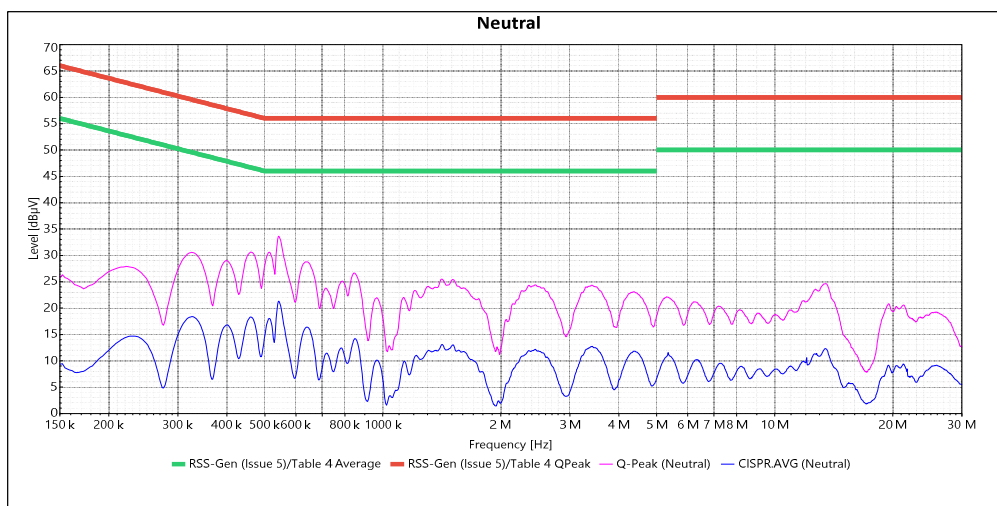
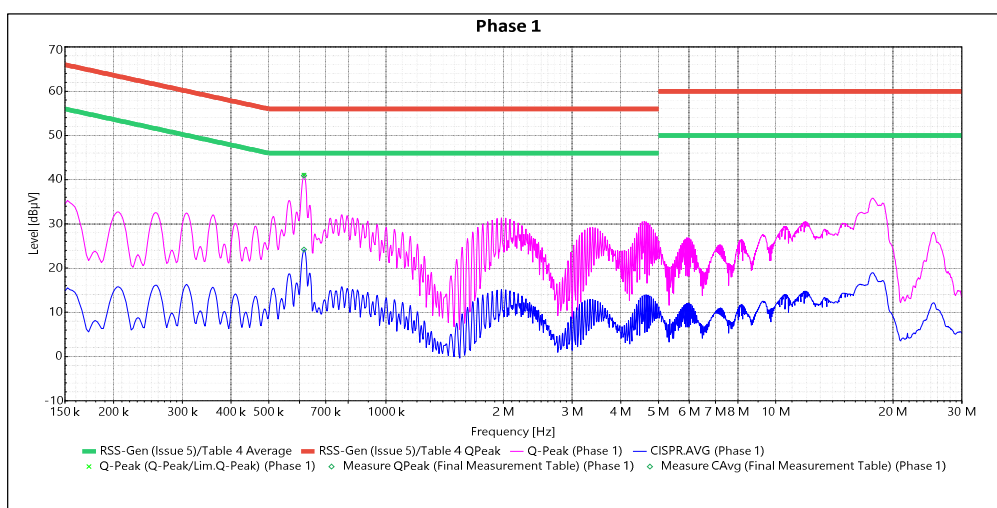
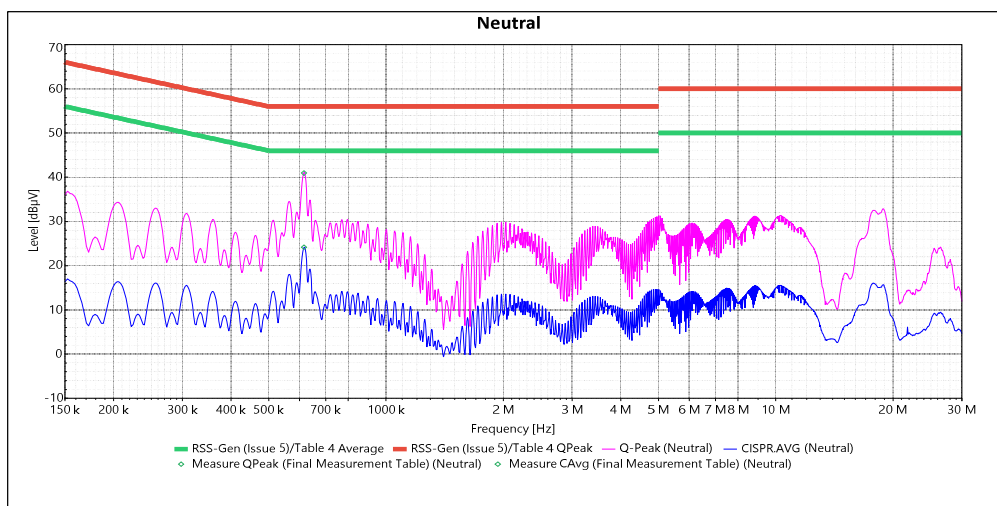


Operating mode	1
Port / terminal	AC mains
Used mains voltage/frequency ...	240 V; 60 Hz
DC input of EUT	5 Vdc
Verdict.....	Pass
Instrument settings	Start Frequency: 150 kHz; Stop Frequency: 30 MHz; Step: 2.25 kHz; Sweep Time: 1 s/Step; RF Attenuation: Auto; 10 dB min attenuation: ON; RBW: 9 kHz; Preamplifier: OFF; Preselector: ON



- ☒ The emissions are below the measurement system noise floor or 20 dB or more below the limit
- ☐ Final measurements for emissions that are above -20 dB from the applicable limits are shown below (at least 6 worst frequencies):

Operating mode	1
Port / terminal	AC mains
Used mains voltage/frequency ...	240 V; 60 Hz
DC input of EUT	24 Vdc
Verdict.....	Pass
Instrument settings	Start Frequency: 150 kHz; Stop Frequency: 30 MHz; Step: 2.25 kHz; Sweep Time: 1 s/Step; RF Attenuation: Auto; 10 dB min attenuation: ON; RBW: 9 kHz; Preamplifier: OFF; Preselector: ON



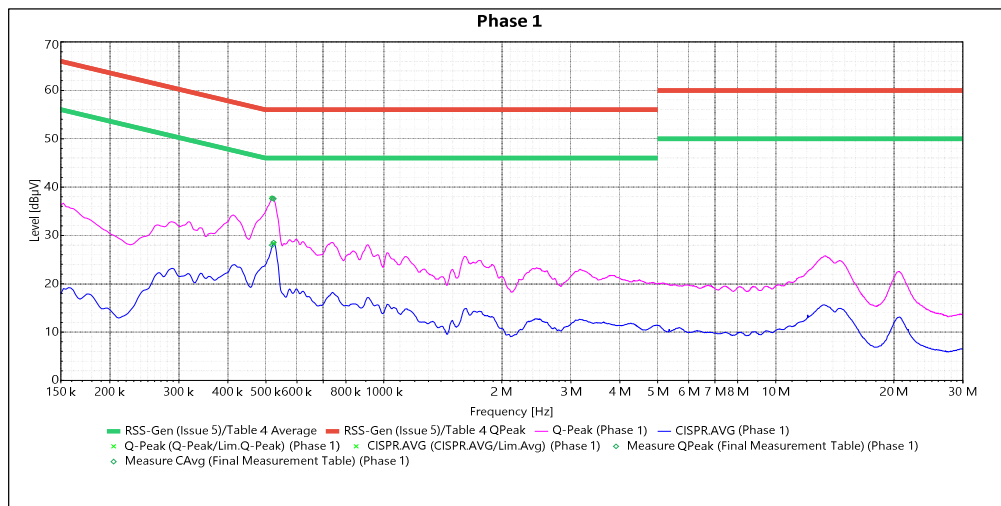
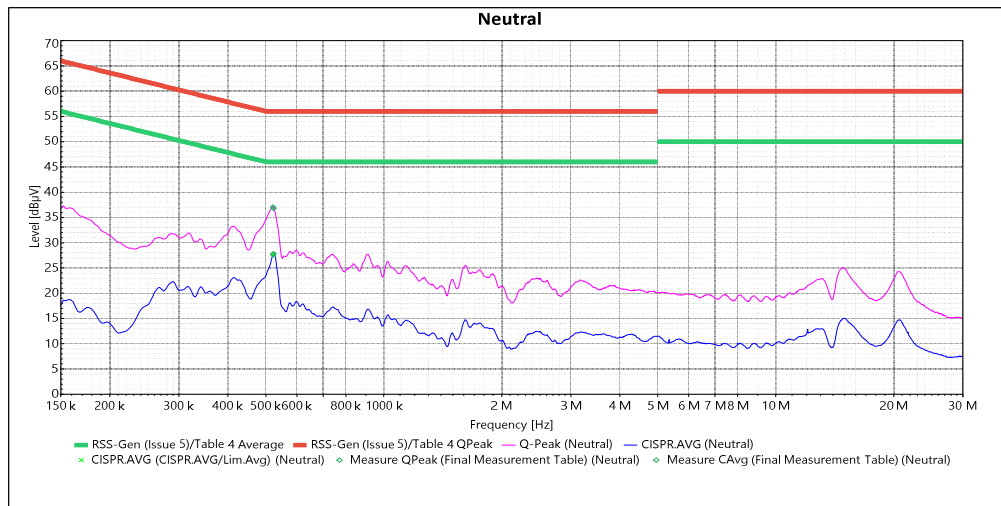
☐ The emissions are below the measurement system noise floor or 20 dB or more below the limit

☒ Final measurements for emissions that are above -20 dB from the applicable limits are shown below (at least 6 worst frequencies):

Final Measurement Table

Frequency	Measure QPeak (dBμV)	Limit QPeak (dBμV)	Margin QPeak (dB)	Measure CAvg (dBμV)	Limit Avg (dBμV)	Margin Avg (dB)	RBW (Hz)	Meas.Time (s)	Comments	Correction (dB)
615.75 kHz	40.95	56	-15.05	24.18	46	-21.82	9 kHz	5	Pass	10.22
615.75 kHz	40.91	56	-15.09	24.19	46	-21.81	9 kHz	5	Pass	10.22

Operating mode	2
Port / terminal	AC mains
Used mains voltage/frequency ...	120 V; 60 Hz
DC input of EUT	5 Vdc
Verdict.....	Pass
Instrument settings	Start Frequency: 150 kHz; Stop Frequency: 30 MHz; Step: 2.25 kHz; Sweep Time: 1 s/Step; RF Attenuation: Auto; 10 dB min attenuation: ON; RBW: 9 kHz; Preamplifier: OFF; Preselector: ON

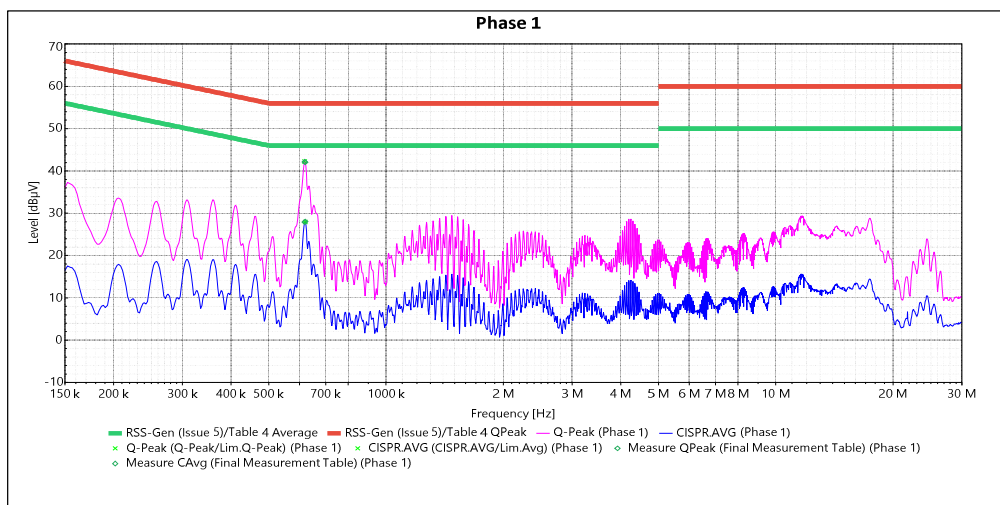
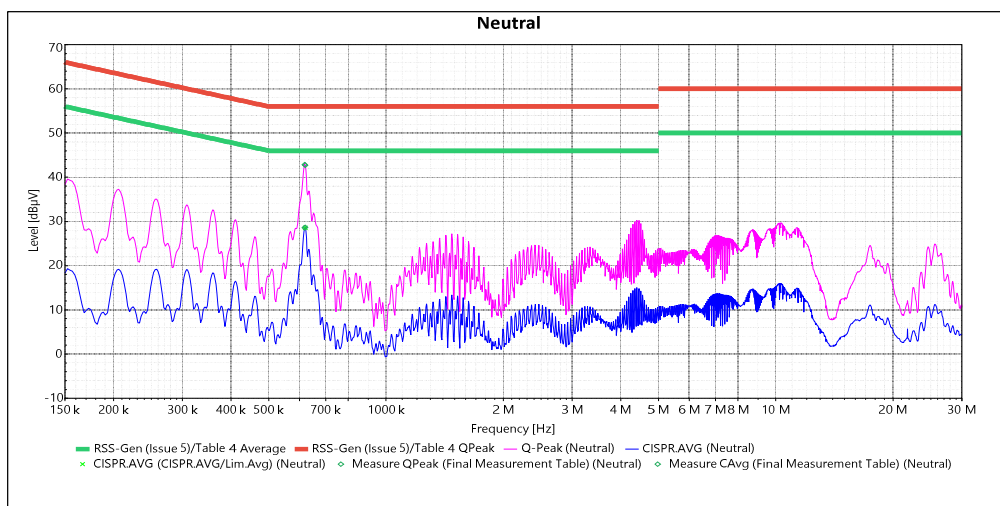


- ☐ The emissions are below the measurement system noise floor or 20 dB or more below the limit
- ☒ Final measurements for emissions that are above -20 dB from the applicable limits are shown below (at least 6 worst frequencies):

Final Measurement Table

Frequency	Measure QPeak (dBμV)	Limit QPeak (dBμV)	Margin QPeak (dB)	Measure CAvg (dBμV)	Limit Avg (dBμV)	Margin Avg (dB)	RBW (Hz)	Meas.Time (s)	Comments	Correction (dB)
521.25 kHz	37.04	56	-18.96	27.66	46	-18.34	9 kHz	5	Pass	10.22
523.5 kHz	36.8	56	-19.2	27.82	46	-18.18	9 kHz	5	Pass	10.22
519 kHz	37.67	56	-18.33	27.98	46	-18.02	9 kHz	5	Pass	10.22
523.5 kHz	37.57	56	-18.43	28.51	46	-17.49	9 kHz	5	Pass	10.22

Operating mode	2
Port / terminal	AC mains
Used mains voltage/frequency ...	120 V; 60 Hz
DC input of EUT	24 Vdc
Verdict.....	Pass
Instrument settings	Start Frequency: 150 kHz; Stop Frequency: 30 MHz; Step: 2.25 kHz; Sweep Time: 1 s/Step; RF Attenuation: Auto; 10 dB min attenuation: ON; RBW: 9 kHz; Preamp: OFF; Preselector: ON

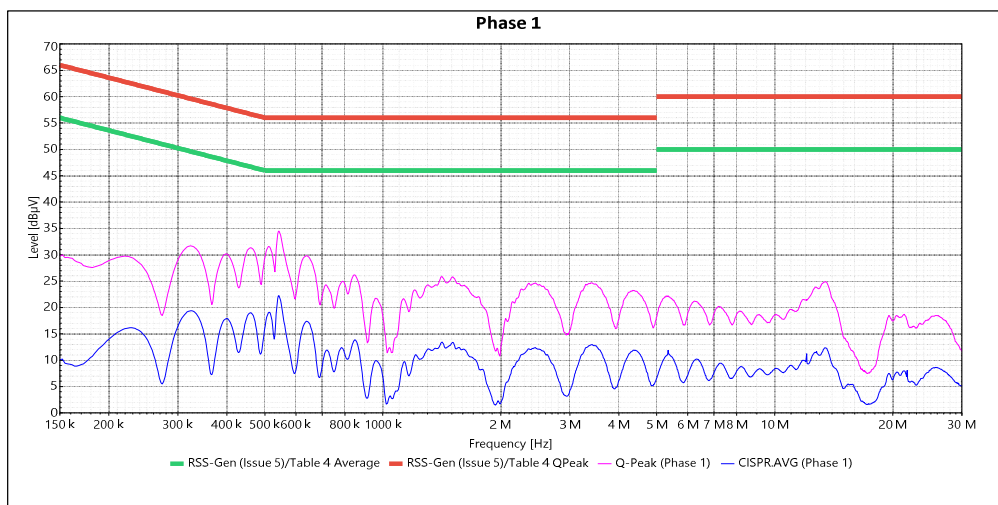
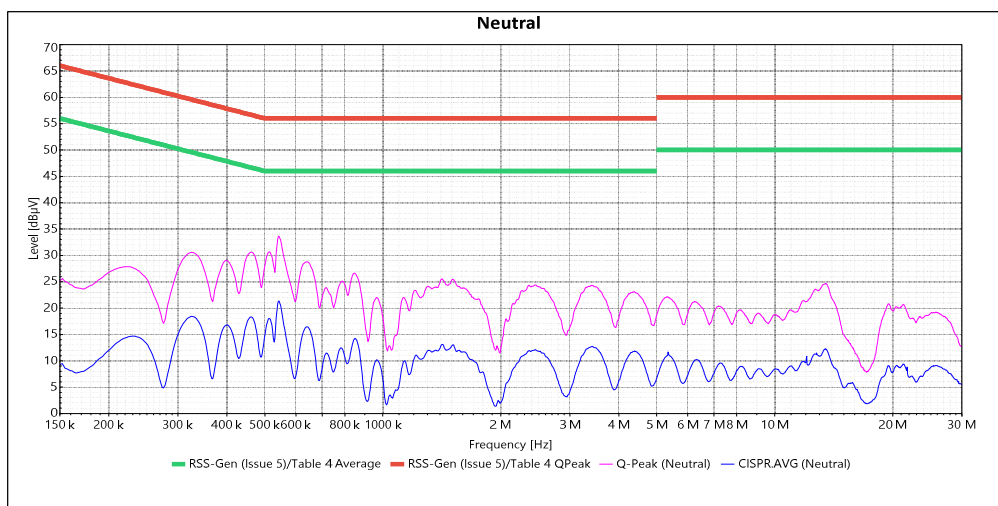


- ☐ The emissions are below the measurement system noise floor or 20 dB or more below the limit
- ☒ Final measurements for emissions that are above -20 dB from the applicable limits are shown below (at least 6 worst frequencies):

Final Measurement Table

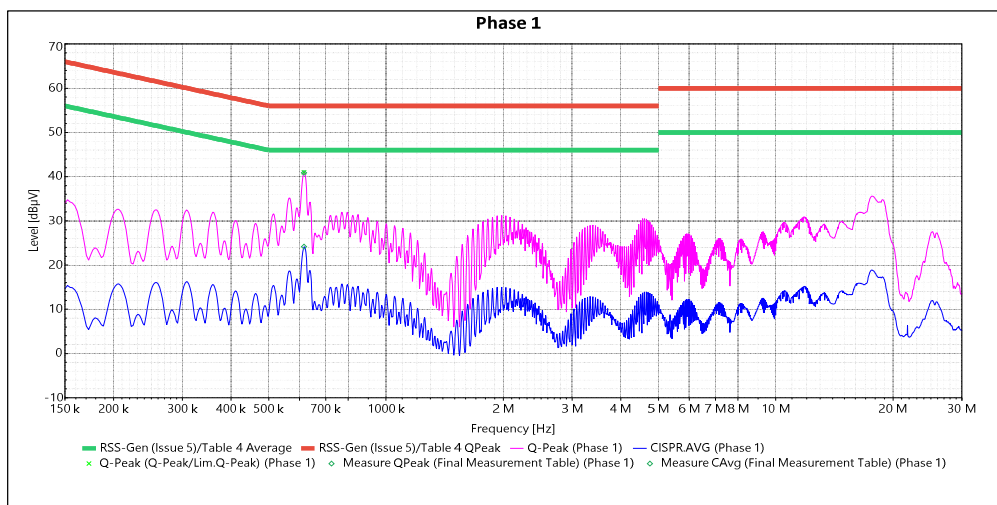
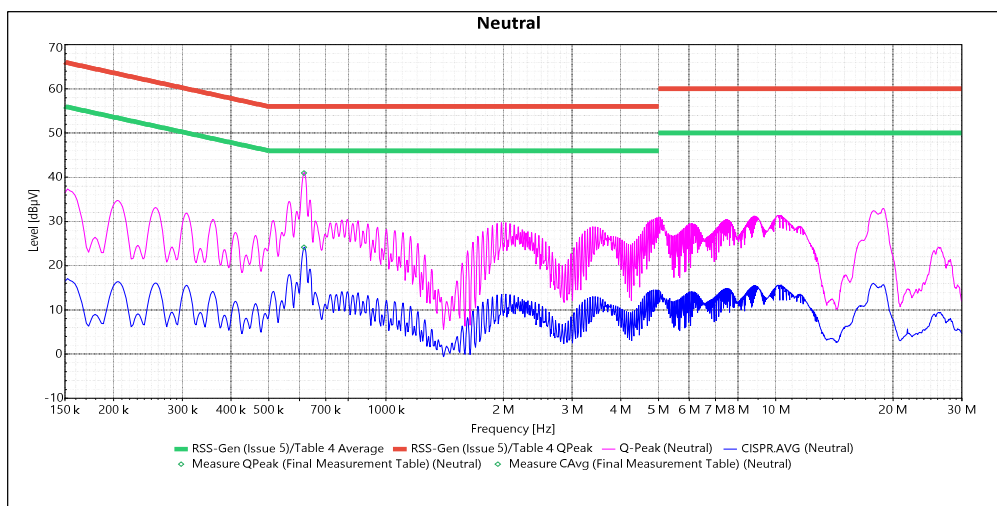
Frequency	Measure QPeak (dBμV)	Limit QPeak (dBμV)	Margin QPeak (dB)	Measure CAvg (dBμV)	Limit Avg (dBμV)	Margin Avg (dB)	RBW (Hz)	Meas.Time (s)	Comments	Correction (dB)
618 kHz	42.84	56	-13.16	28.56	46	-17.44	9 kHz	5	Pass	10.22
620.25 kHz	42.72	56	-13.28	28.66	46	-17.34	9 kHz	5	Pass	10.22
618 kHz	42.15	56	-13.85	27.9	46	-18.1	9 kHz	5	Pass	10.22
620.25 kHz	42.08	56	-13.92	28.04	46	-17.96	9 kHz	5	Pass	10.22

Operating mode	2
Port / terminal	AC mains
Used mains voltage/frequency ...	240 V; 60 Hz
DC input of EUT	5 Vdc
Verdict.....	Pass
Instrument settings	Start Frequency: 150 kHz; Stop Frequency: 30 MHz; Step: 2.25 kHz; Sweep Time: 1 s/Step; RF Attenuation: Auto; 10 dB min attenuation: ON; RBW: 9 kHz; Preamplifier: OFF; Preselector: ON



- ☒ The emissions are below the measurement system noise floor or 20 dB or more below the limit
- ☐ Final measurements for emissions that are above -20 dB from the applicable limits are shown below (at least 6 worst frequencies):

Operating mode	2
Port / terminal	AC mains
Used mains voltage/frequency ...	240 V; 60 Hz
DC input of EUT	24 Vdc
Verdict.....	Pass
Instrument settings	Start Frequency: 150 kHz; Stop Frequency: 30 MHz; Step: 2.25 kHz; Sweep Time: 1 s/Step; RF Attenuation: Auto; 10 dB min attenuation: ON; RBW: 9 kHz; Preamplifier: OFF; Preselector: ON



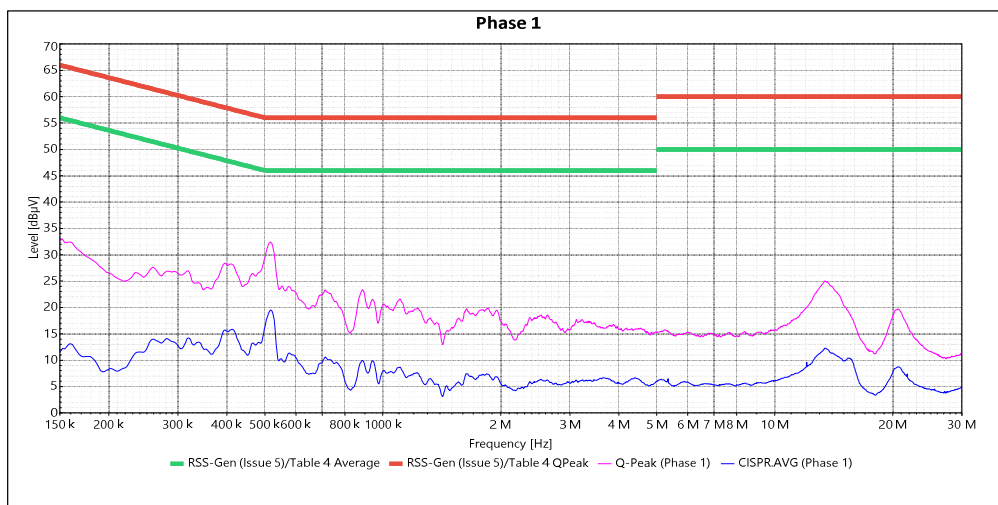
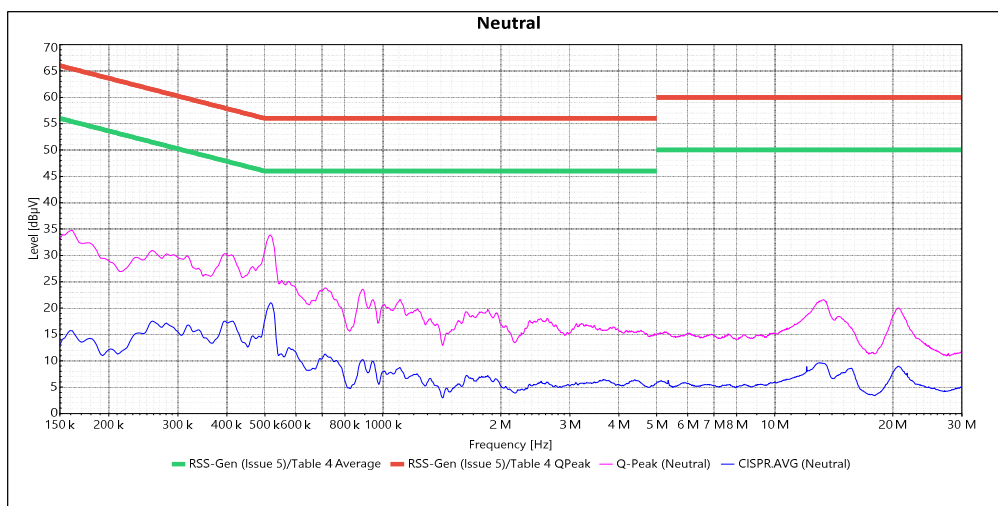
☐ The emissions are below the measurement system noise floor or 20 dB or more below the limit

☒ Final measurements for emissions that are above -20 dB from the applicable limits are shown below (at least 6 worst frequencies):

Final Measurement Table

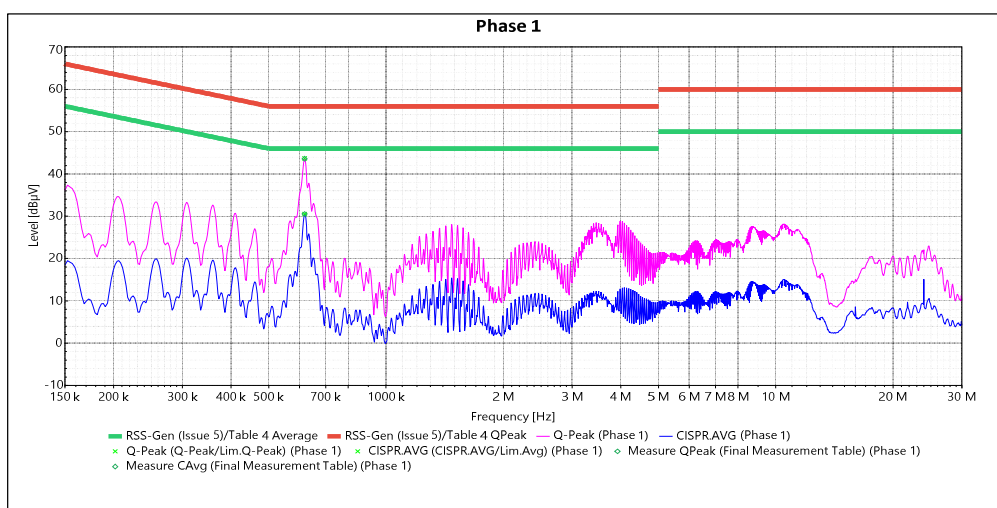
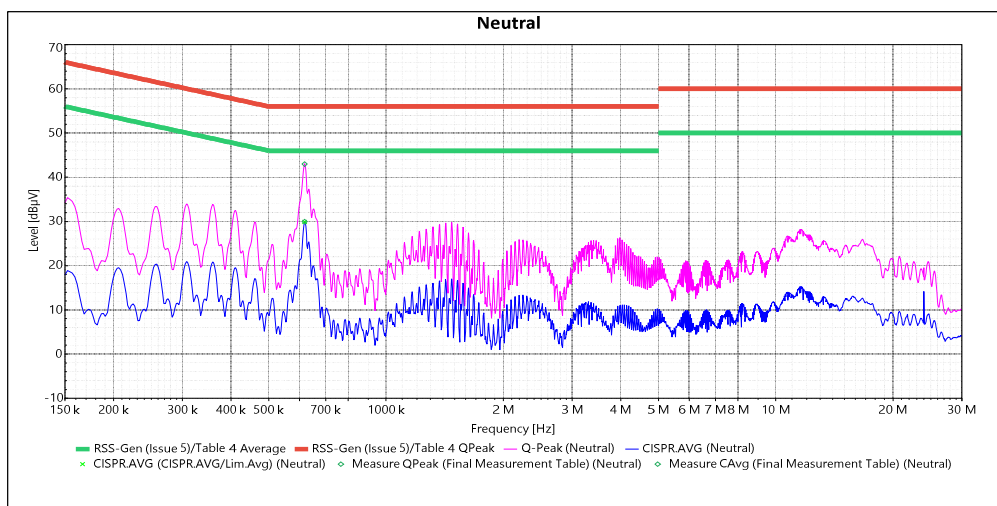
Frequency	Measure QPeak (dBμV)	Limit QPeak (dBμV)	Margin QPeak (dB)	Measure CAvg (dBμV)	Limit Avg (dBμV)	Margin Avg (dB)	RBW (Hz)	Meas.Time (s)	Comments	Correction (dB)
615.75 kHz	40.94	56	-15.06	24.17	46	-21.83	9 kHz	5	Pass	10.22
615.75 kHz	40.85	56	-15.15	24.16	46	-21.84	9 kHz	5	Pass	10.22

Operating mode	3
Port / terminal	AC mains
Used mains voltage/frequency ...	120 V; 60 Hz
DC input of EUT	5 Vdc
Verdict.....	Pass
Instrument settings	Start Frequency: 150 kHz; Stop Frequency: 30 MHz; Step: 2.25 kHz; Sweep Time: 1 s/Step; RF Attenuation: Auto; 10 dB min attenuation: ON; RBW: 9 kHz; Preamplifier: OFF; Preselector: ON



- ☒ The emissions are below the measurement system noise floor or 20 dB or more below the limit
- ☐ Final measurements for emissions that are above -20 dB from the applicable limits are shown below (at least 6 worst frequencies):

Operating mode.....	3
Port / terminal	AC mains
Used mains voltage/frequency ...	120 V; 60 Hz
DC input of EUT:	24 Vdc
Verdict.....	Pass
Instrument settings	Start Frequency: 150 kHz; Stop Frequency: 30 MHz; Step: 2.25 kHz; Sweep Time: 1 s/Step; RF Attenuation: Auto; 10 dB min attenuation: ON; RBW: 9 kHz; Preamp: OFF; Preselector: ON



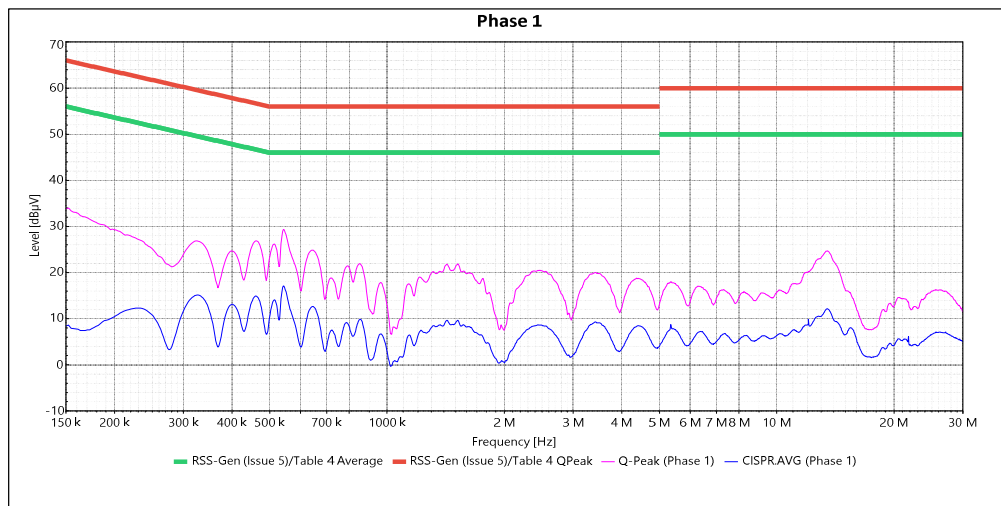
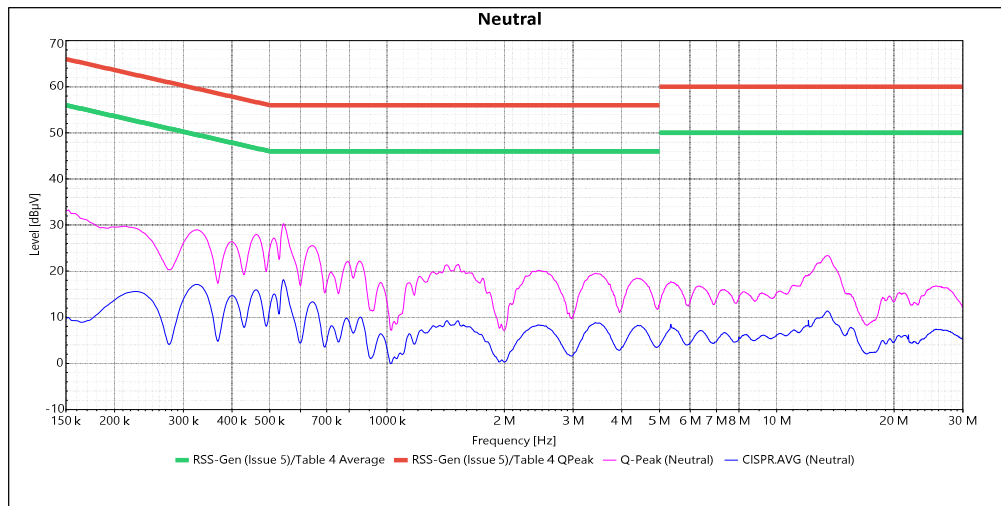
☐ The emissions are below the measurement system noise floor or 20 dB or more below the limit

☒ Final measurements for emissions that are above -20 dB from the applicable limits are shown below (at least 6 worst frequencies):

Final Measurement Table

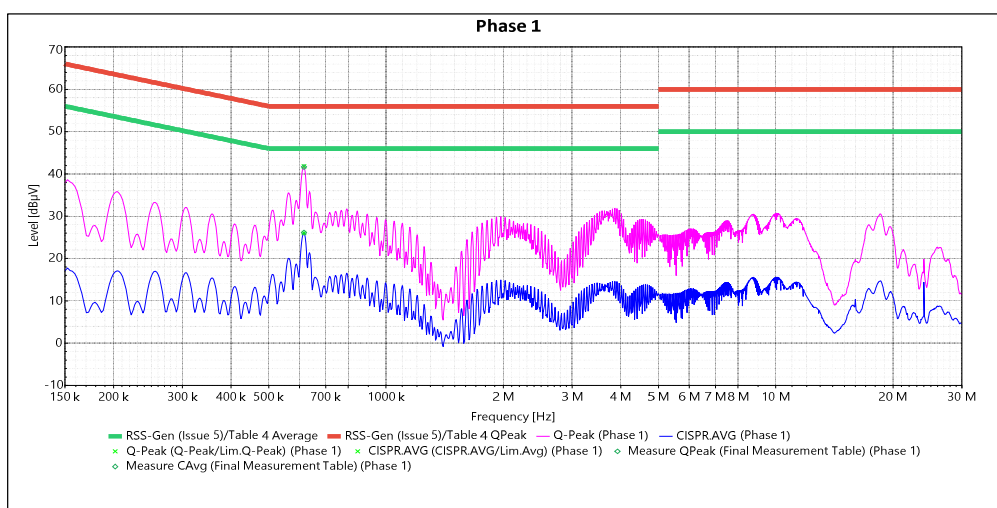
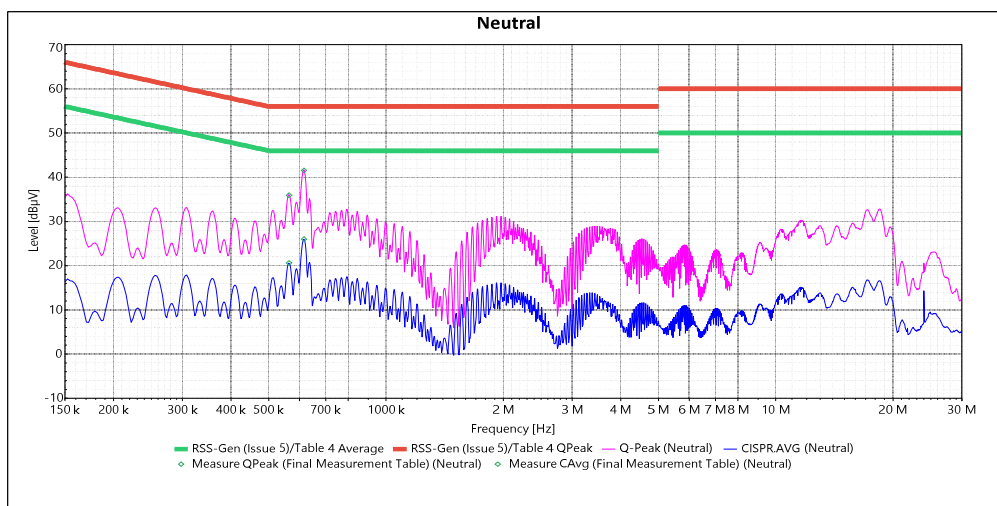
Frequency	Measure QPeak (dBμV)	Limit QPeak (dBμV)	Margin QPeak (dB)	Measure CAvg (dBμV)	Limit Avg (dBμV)	Margin Avg (dB)	RBW (Hz)	Meas.Time (s)	Comments	Correction (dB)
618 kHz	42.96	56	-13.04	29.96	46	-16.04	9 kHz	5	Pass	10.22
618 kHz	43.58	56	-12.42	30.54	46	-15.46	9 kHz	5	Pass	10.22

Operating mode.....	3
Port / terminal	AC mains
Used mains voltage/frequency ...	240 V; 60 Hz
DC input of EUT:	5 Vdc
Verdict.....	Pass
Instrument settings	Start Frequency: 150 kHz; Stop Frequency: 30 MHz; Step: 2.25 kHz; Sweep Time: 1 s/Step; RF Attenuation: Auto; 10 dB min attenuation: ON; RBW: 9 kHz; Preamp: OFF; Preselector: ON



- ☒ The emissions are below the measurement system noise floor or 20 dB or more below the limit
- ☐ Final measurements for emissions that are above -20 dB from the applicable limits are shown below (at least 6 worst frequencies):

Operating mode	3
Port / terminal	AC mains
Used mains voltage/frequency ...	240 V; 60 Hz
DC input of EUT:	24 Vdc
Verdict.....	Pass
Instrument settings	Start Frequency: 150 kHz; Stop Frequency: 30 MHz; Step: 2.25 kHz; Sweep Time: 1 s/Step; RF Attenuation: Auto; 10 dB min attenuation: ON; RBW: 9 kHz; Preamp: OFF; Preselector: ON



☐ The emissions are below the measurement system noise floor or 20 dB or more below the limit

☒ Final measurements for emissions that are above -20 dB from the applicable limits are shown below (at least 6 worst frequencies):

Final Measurement Table

Frequency	Measure QPeak (dBμV)	Limit QPeak (dBμV)	Margin QPeak (dB)	Measure CAvg (dBμV)	Limit Avg (dBμV)	Margin Avg (dB)	RBW (Hz)	Meas.Time (s)	Comments	Correction (dB)
564 kHz	35.92	56	-20.08	20.62	46	-25.38	9 kHz	5	Pass	10.22
615.75 kHz	41.53	56	-14.47	26.01	46	-19.99	9 kHz	5	Pass	10.22
615.75 kHz	41.65	56	-14.35	26.11	46	-19.89	9 kHz	5	Pass	10.22

7 List of test equipment

Equipment	Type	Inventory Number	Manufacturer	Serial Number	Last Calibration Date	Calibration Due Date
Test Stand: radiated spurious emission 9 kHz – 30 MHz						
12m N(m)-N(m) RF cable	Hyperflex 5 12m	248398	Kabel Kusch	None	2025-05-23	2026-05-28
Center, Modular RF Platform	7000-011	210859	ETS-Lindgren	00231682	-	-
EMI TEST RECEIVER	ESW26	246431	Rohde & Schwarz (Koeln) GmbH & Co. KG	103182	2025-03-31	2026-01-28
SEMI-ANECHOIC CHAMBER	FACT3-1.2 STD	210407	ETS-Lindgren	-	-	-
Software - EMC	BAT-EMC	156535	Nexio Technologies	-	-	-
Antenna Tripod	CTP 6099	155934	Teseq, Inc	-	-	-
Active Loop Antenna	HLA 6121	155933	Teseq, Inc	45746	2025-02-14	2027-02-28
DC Power Injector	PI 6121	155980	Teseq, Inc	-	-	-
Test Stand: radiated spurious emission 30 MHz – 1000 MHz						
Software - EMC	BAT-EMC	156535	Nexio Technologies	-	-	-
NSA Normalized Site Attenuation	NSA FACT3-1.2 STD	210410	ETS-Lindgren	-	2025-04-28	2025-08-28
Trilog-Broadband Antenna	VULB 9168	210290	Schwarzbeck Mess-Elektronik OHG	12441244	2023-08-25	2025-08-28
Tilting Antenna Mast Positioning Tower	2171B/2170B	135821	ETS-Lindgren (Cedar Park, Texas)	-	-	-
SEMI-ANECHOIC CHAMBER	FACT3-1.2 STD	210407	ETS-Lindgren	-	-	-
EMI TEST RECEIVER	ESW26	246431	Rohde & Schwarz (Koeln) GmbH & Co. KG	103182	2025-03-31	2026-01-28
Center, Modular RF Platform	7000-011	210859	ETS-Lindgren	00231682	-	-
Cable 2000mm - 18 GHz	SF126/11SMA/11N/2000	220503	Huber+Suhner	554756/126	2025-05-28	2026-05-28
Cable 8000mm - 18 GHz	SF126/11N/11N/8000	220502	Huber+Suhner	556226/126	2025-05-28	2026-05-28
6dB Attenuator	DGA 9552 N	210263	Schwarzbeck Mess-Elektronik OHG	CH9006	2024-09-05	2025-09-28

Test Stand: radiated spurious emission 1 GHz – 18 GHz						
EMI TEST RECEIVER	ESW26	207263	Rohde & Schwarz (Koeln) GmbH & Co. KG	101512	2025-05-09	2026-05-28
Center, Modular RF Platform	7000-011	210858	ETS-Lindgren	00231681	-	-
Software - EMC	BAT-EMC	156535	Nexio Technologies		-	-
Double Ridged Broadband Horn Antenna	BBHA 9120 D	51732	Schwarzbeck Mess-Elektronik OHG	669	2024-02-14	2027-02-28
Cable 8000mm - 18 GHz	SF126/11N/11N/8000	220504	Huber+Suhner	556227/126	2025-05-28	2026-05-28
Cable DC-18GHz 1.5m Nmm	NPS-2803-600-NPS	210442	IW Microwave	RE000G	2025-05-28	2026-05-28
Cable 2000mm - 18 GHz	SF126/11SMA/11N/2000	220505	Huber+Suhner	554755/126	2025-05-28	2026-05-28
SEMI-ANECHOIC CHAMBER	FACT5-3.0 STD	210401	ETS-Lindgren	-	-	-
Absorber High Frequency	EHP-12	212616	ETS-Lindgren	-	-	-
Highpass Filter	WHKX12-2520-2800-18000-60ST	154712	Wainwright Instruments GmbH	1	2024-10-28	2025-10-28
Tilting Antenna Mast Positioning Tower	2171B/2170B	210565	ETS-Lindgren	-	-	-
Low-Noise EMI Preamplifier	BLMA 0118-4A	209025	BONN Elektronik	2113244A2113244A	2025-03-24	2026-03-28
SVSWR Voltage Standing Wave Ratio	SVSWR FACT5-3.0 STD	210403	ETS-Lindgren	-	2025-05-28	2025-08-28
Microwave Coaxial Cable N to Sma-M	AK 9515 H	213199	Schwarzbeck Mess-Elektronik OHG	00169	2025-05-23	2026-05-28
Test Stand: Radiated emission 18 GHz – 26 GHz						
Cable 6000mm - 0.04 to 26.5 GHz	SF526S-600-2X11PC35501	216873	Huber+Suhner	2717237001	2025-03-24	2026-03-28
Double Ridged Broadband Horn Antenna	3116C	210452	ETS-Lindgren	0024001100240011	2024-05-20	2027-05-28
Software - EMC	BAT-EMC	156535	Nexio Technologies		-	-
EMI TEST RECEIVER	ESW26	246431	Rohde & Schwarz (Koeln) GmbH & Co. KG	103182	2025-03-31	2026-01-28
Low-Noise EMI Preamplifier	BLMA 1840-1A	209026	BONN Elektronik	2113244B	2024-07-18	2025-07-28
Tilting Antenna Mast Positioning Tower	2171B/2170B	135821	ETS-Lindgren (Cedar Park, Texas)	-	-	-
Absorber High Frequency	EHP-12	212616	ETS-Lindgren	-	-	-
Center, Modular RF Platform	7000-011	210859	ETS-Lindgren	00231682	-	-
SEMI-ANECHOIC CHAMBER	FACT3-1.2 STD	210407	ETS-Lindgren	-	-	-
Cable 500mm - 0.04 to 40 GHz	SF102E-50-2X11SK252	216877	Huber+Suhner	536580/2E	2025-03-24	2026-03-28
Test Stand: Duty Cycle, Transmitter 99% Occupied Bandwidth, Transmitter minimum 6dB Bandwidth, Maximum Peak Output Power, Power Spectral Density						
EMI TEST RECEIVER	ESW26	246431	Rohde & Schwarz (Koeln) GmbH & Co. KG	103182	2025-03-31	2026-01-28
Signal and Spectrum Analyzer 44 GHz	FSV3044	213658	Rohde & Schwarz	2025-06-12	2026-03-28	Signal and Spectrum Analyzer 44 GHz
RF CABLES	LMR-240	175758	TIMES MICROWAVE SYSTEMS	None	2025-02-14	2026-02-28
Cable SK252 40GHz	SF 102/11SK/11SK/900mm	213660	Huber + Suhner	None	2026-01-22	2027-01-28

Test Stand: AC conducted emission						
Line Impedance Stabilization Network 3PH32A	ENV432	154695	Rohde & Schwarz	101335	2025-01-09	2026-01-28
Shielded Room 2 RF Emission	SR2	210412	ETS-Lindgren	-	-	-
3m coaxial cable	3m N(m)-N(m) Highflexx 7	259764	Kabel Kusch	None	2025-03-24	2026-03-28
Software - EMC	Click Rate Analyzer	156536	Rohde & Schwarz		-	-
EMI TEST RECEIVER	ESR7	82570	Rohde & Schwarz	-	2024-09-28	2025-09-28
Test Stand: Auxiliary						
Mini Datalogger (FACT5)	174H	211148	Testo	83306364	2024-10-25	2025-10-28
Mini Datalogger (FACT3)	174H	211147	Testo	83306371	2024-10-25	2025-10-28
TRUE-RMS DIGITAL MULTIMETER	289	223467	Fluke Corporation	59040084	2023-09-06	2025-09-28
Laser Measure	RSLDM-50H	224436	RS Pro	210743764	2023-11-10	2025-11-28
Frequency Converter (60 Hz)	FWW-SFUP 40kVA	37730	GUSTAV KLEIN	-	-	-
Isolated voltage variac (60 Hz)	T40NC-6	80699	BELOTTI VARIATORI	-	-	-
CLIMATIC CENTRAL UNIT (SACs side)	iBTHX-W	70611	Omega Engineering Inc.	1040495	2025-04-28	2026-04-28
CLIMATIC CENTRAL UNIT (SRs side)	iBTHX-W	70614	Omega Engineering Inc.	1040496	2025-04-28	2026-04-28

In accordance with ACCREDIA requirements, all the measurement equipment is on a calibration schedule. All equipment was within the calibration period on the date of testing.

8 Measurement instrumentation uncertainties

The Uncertainty of Measurement (UoM) for each unit measured in this Test Report was estimated in accordance with the UL International Italia document No. 23-CL-G0025 and is retained on file. Details of the estimation of UoM may be made available upon request, in particular for quantities not listed.

Measurement	Range	Ulab	Unit
Frequency	9 kHz to 40 GHz	0.5	kHz
Time	0.7 μ s to 16000 s	3.00	%
Conducted power, by spectrum analyzer	9 kHz to 40 GHz	0.51	dB
Conducted power, by fast power meter	9 kHz to 8 GHz	0.49	dB
Temperature (ambient)	15 to 35 °C	0.72	°C
Temperature (climatic chamber)	-40 to 100 °C	1.63	°C
Humidity (ambient)	30 to 70 %	5.76	%RH
Humidity (climatic chamber)	30 to 95 %	3.95	%RH
Supply voltage (AC)	0 to 500 V	3.00	%
Supply voltage (DC)	0 to 15 V	0.28	%
Conducted disturbance at mains and other port power using V-AMN	9 kHz to 150 kHz	3.71	dB
Conducted disturbance at mains and other port power using V-AMN	150 kHz to 30 MHz	3.36	dB
Radiated disturbance (magnetic field using a loop antenna)	9 kHz to 30 MHz	3.16	dB
Radiated disturbance (electric field strength in SAC 3, hybrid antenna, Hor)	30 MHz to 1000 MHz	4.22	dB
Radiated disturbance (electric field strength in SAC 3, hybrid antenna, Ver)	30 MHz to 1000 MHz	5.64	dB
Radiated disturbance (electric field strength in SAC 5, hybrid antenna, Hor)	30 MHz to 1000 MHz	3.98	dB
Radiated disturbance (electric field strength in SAC 5, hybrid antenna, Ver)	30 MHz to 1000 MHz	5.66	dB
Radiated disturbance (electric field strength in FSOATS 3) (1)	1 GHz to 6 GHz	5.43	dB
Radiated disturbance (electric field strength in FSOATS 3) (2)	1 GHz to 6 GHz	4.29	dB
Radiated disturbance (electric field strength in FSOATS 3) (1)	6 GHz to 18 GHz	5.18	dB
Radiated disturbance (electric field strength in FSOATS 3) (2)	6 GHz to 18 GHz	4.22	dB
Radiated disturbance (electric field strength in FSOATS 5) (1)	1 GHz to 6 GHz	5.12	dB
Radiated disturbance (electric field strength in FSOATS 5) (2)	1 GHz to 6 GHz	4.13	dB
Radiated disturbance (electric field strength in FSOATS 5) (1)	6 GHz to 18 GHz	5.63	dB
Radiated disturbance (electric field strength in FSOATS 5) (2)	6 GHz to 18 GHz	4.54	dB
Radiated disturbance (electric field strength in FSOATS 3) (1)	18 GHz to 40 GHz	7.63	dB
Radiated disturbance (electric field strength in FSOATS 5) (1)	18 GHz to 40 GHz	7.63	dB
Radiated Spurious Emission (ERP/EIRP, Substitution Method)	25 MHz to 26 GHz	5.97	dB

Legend/Remarks:

n.d.: not defined

(1) Using external EMI preamplifier.

(2) Not using external EMI preamplifier.

Supplementary information:

- The measurement uncertainty values are calculated and correspond to an expansion factor (coverage factor) $k = 2$ (which provide confidence level of 95.45 % in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian)).

- Listed values are intended with prefix "±".

< END OF TEST REPORT >