

TEST REPORT

Test report no.: 1-0702-25-01-04_TR1-R01



Deutsche
Akkreditierungsstelle
D-PL-12047-01-00

Testing laboratory

cetecom advanced GmbH

Untertuerkheimer Strasse 6 – 10

66117 Saarbruecken / Germany

Phone: + 49 681 5 98 - 0

Fax: + 49 681 5 98 - 9075

Internet: <https://cetecomadvanced.com>

e-mail: mail@cetecomadvanced.com

Accredited Testing Laboratory:

The testing laboratory (area of testing) is accredited according to DIN EN ISO/IEC 17025 (2018-03) by the Deutsche Akkreditierungsstelle GmbH (DAkkS).

The accreditation is valid for the scope of testing procedures as stated in the accreditation certificate with the registration number:

D-PL-12047-01-00.

ISED Testing Laboratory Recognized Listing Number: DE0001

FCC designation number: DE0002

Applicant

Molex CVS Bochum GmbH

Meesmannstr. 103

44807 Bochum / GERMANY

Phone: +49-(0)-234-51668-0

Contact: Ines Baufeld

e-mail: ines.baufeld@molex.com

Manufacturer

Molex CVS Bochum GmbH

Meesmannstr. 103

44807 Bochum / GERMANY

Test standard/s

FCC - Title 47 CFR Part 15 FCC - Title 47 of the Code of Federal Regulations; Chapter I; Part 15 - Radio frequency devices

RSS - Gen Issue 5 incl. Spectrum Management and Telecommunications Radio Standards Specification
Amendment 1 & 2 - Wireless Power Transfer Devices

For further applied test standards please refer to section 3 of this test report.

Test Item

Kind of test item: Dual Wireless Charger
Model name: WCH-313 (tested variant WCH-313a)
FCC ID: WJLWCH-313
ISED certification number: 7847A-WCH313
Frequency: 127.55 kHz; 360 kHz
Technology tested: WPT
Antenna: Integrated antenna
Power supply: 9.0 V to 16.0 V DC by car battery
Temperature range: -40°C to +55°C

This test report is electronically signed and valid without handwritten signature. For verification of the electronic signatures, the public keys can be requested at the testing laboratory.

Test report authorized:

On behalf of

cn=Marco Bertolino, o=cetecom
advanced GmbH, ou=BTL-251205,
email=Marco.Bertolino@cetecom
advanced.com, c=DE
2026.07.24 09:04:18 +02'00'

Christoph Schneider
Coordinator Area
Regulatory Services Radio

Test performed:

cn=Tobias Wittenmeier, o=cetecom advanced
GmbH, ou=WIT-230601,
email=tobias.wittenmeier@cetecomadvanced.
com, c=DE
2026.07.24 09:02:55 +02'00'

Tobias Wittenmeier
Testing Manager
Regulatory Services Radio

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2 General information

2.1 Notes and disclaimer

The test results of this test report relate exclusively to the test item specified in this test report. cetecom advanced GmbH does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item.

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2.2 Application details

Date of receipt of order:	2026-03-26
Date of receipt of test item:	2026-05-04
Start of test:*	2026-05-04
End of test:*	2026-06-04
Person(s) present during the test:	-/-

*Date of each measurement, if not shown in the plot, can be requested. Dates are stored in the measurement software.

2.3 Test laboratories sub-contracted

None

3 Test standard/s, references and accreditations

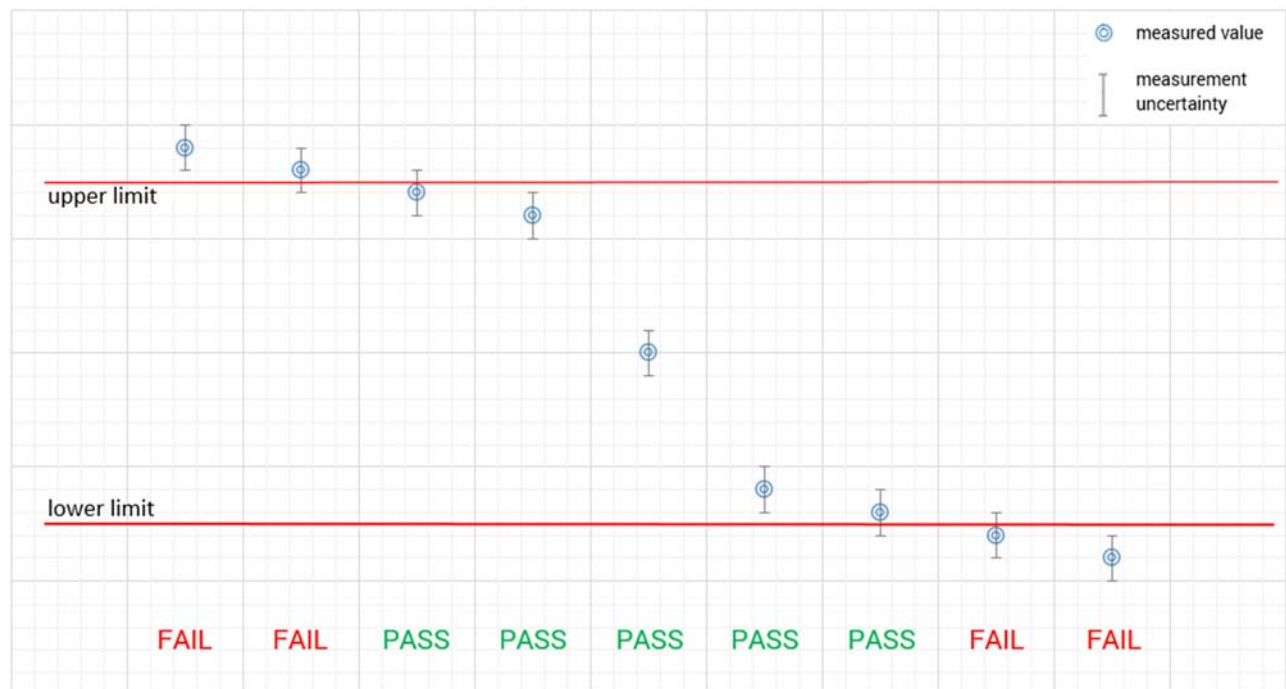
Test standard	Date	Description
FCC - Title 47 CFR Part 15		FCC - Title 47 of the Code of Federal Regulations; Chapter I; Part 15 - Radio frequency devices
RSS - 216 Issue 3	2024-09	Spectrum Management and Telecommunications Radio Standards Specification - Licence-Exempt Radio Apparatus: Category I Equipment
RSS - Gen Issue 5 incl. Amendment 1 & 2	February 2021	Spectrum Management and Telecommunications Radio Standards Specification - Wireless Power Transfer Devices
Guidance	Version	Description
ANSI C63.4a-2017	-/-	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz
ANSI C63.10-2020	-/-	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
ANSI C63.10-2020- Cor. 01-2023	-/-	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices Corrigendum 1
ANSI C63.10-2020- Amd 2024	-/-	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices Amendment 1
ANSI C63.30-2021	-/-	American National Standard for Methods of Measurements of Radio-Frequency Emissions from Wireless Power Transfer Equipment

4 Reporting statements of conformity – decision rule

Only the measured values related to their corresponding limits will be used to decide whether the equipment under test meets the requirements of the test standards listed in chapter 3.

The measurement uncertainty is mentioned in this test report, see chapter 9, but is not taken into account - neither to the limits nor to the measurement results. Measurement results with a smaller margin to the corresponding limits than the measurement uncertainty have a potential risk of more than 5% that the decision might be wrong."

measured value, measurement uncertainty, verdict



5 Test environment

Temperature	:	T_{nom} T_{max} T_{min}	+22 °C during room temperature tests +55 °C during high temperature tests -40 °C during low temperature tests
Relative humidity content	:		55 %
Barometric pressure	:		1021 hpa
Power supply	:	V_{nom} V_{max} V_{min}	12.0 V DC by car battery 16.0 V 9.0 V

6 Test item

6.1 General description

Kind of test item	:	Dual Wireless Charger
Model name	:	WCH-313 (tested variant WCH-313a)
HMN	:	not available
PMN	:	WCH-313
HVIN	:	WCH-313a
FVIN	:	not available
S/N serial number	:	S8W-00117.04.2636165121
Hardware status	:	CH 01
Software status	:	CS 01
Firmware status	:	-/-
Frequency band	:	127.55 kHz ; 360 kHz
Type of radio transmission	:	Clean carrier (charging)
Use of frequency spectrum	:	
Type of modulation	:	PSK
Number of channels	:	-/-
Antenna	:	Integrated antenna
Power supply	:	9.0 V to 16.0 V DC by car battery
Temperature range	:	-40°C to +55°C

6.2 Additional information

T

The content of the following annexes is defined in the QA. It may be that not all of the listed annexes are necessary for this report, thus some values in between may be missing.

Test setup and EUT photos are included in test report:

1-0702-25-01-01_TR1-A101-R01
1-0702-25-01-01_TR1-A102-R01
1-0702-25-01-01_TR1-A103-R01

7 Description of the test setup

Typically, the calibrations of the test apparatus are commissioned to and performed by an accredited calibration laboratory. The calibration intervals are determined in accordance with the DIN EN ISO/IEC 17025. In addition to the external calibrations, the laboratory executes comparison measurements with other calibrated test systems or effective verifications. Weekly chamber inspections and range calibrations are performed. Where possible, RF generating and signaling equipment as well as measuring receivers and analyzers are connected to an external high-precision 10 MHz reference (GPS-based or rubidium frequency standard).

In order to simplify the identification of the equipment used at some special tests, some items of test equipment and ancillaries can be provided with an identifier or number in the equipment list below (Lab/Item).

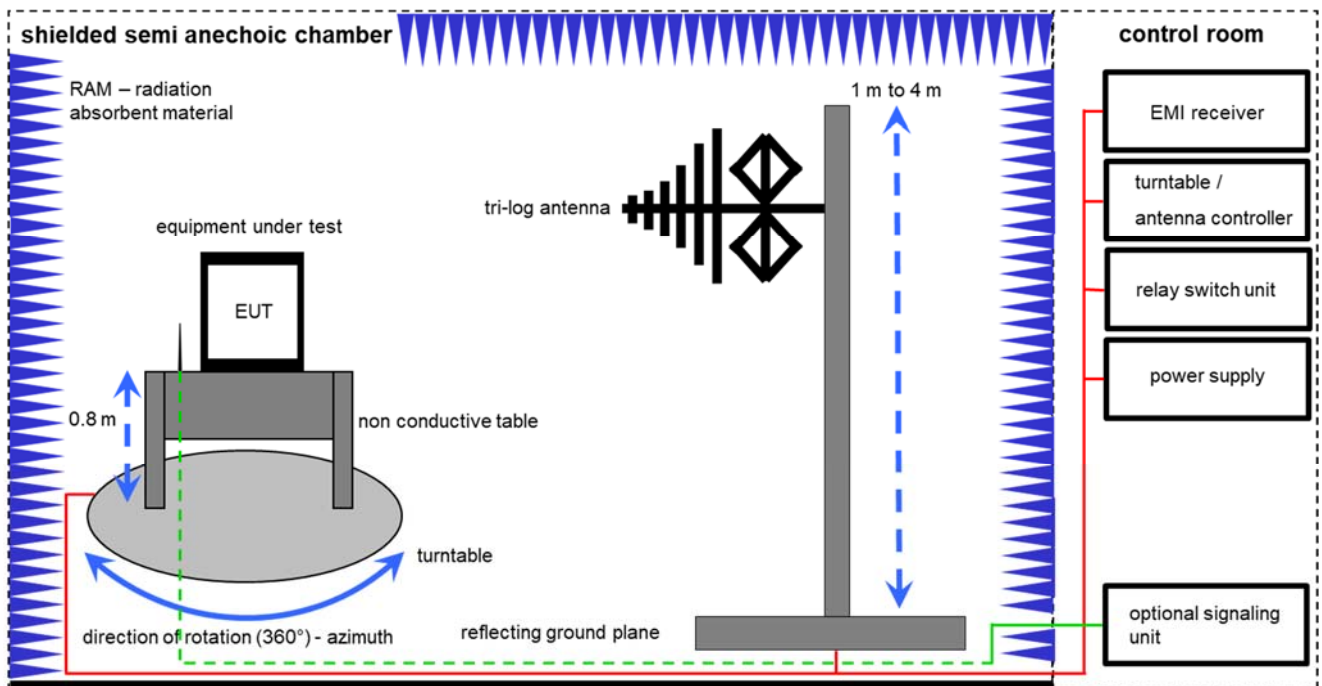
Each block diagram listed can contain several test setup configurations. All devices belonging to a test setup are identified with the same letter syntax. For example: Column Setup and all devices with an A.

Agenda: Kind of Calibration

k/cal	calibration / calibrated	EK	limited calibration
Ne/cnn	not required (k, ev, izw, zw not required)	zw	cyclical maintenance (external cyclical maintenance)
Ev/chk	periodic self verification	izw	internal cyclical maintenance
Ve	long-term stability recognized	g	blocked for accredited testing
vlk!	Attention: extended calibration interval		
NK!	Attention: not calibrated	*)	next calibration ordered / currently in progress
cpu	check prior usage		

7.1 Shielded semi anechoic chamber

The radiated measurements are performed in vertical and horizontal plane in the frequency range from 30 MHz to 1 GHz in semi-anechoic chambers. The EUT is positioned on a non-conductive support with a height of 0.80 m above a conductive ground plane that covers the whole chamber. The receiving antennas are conform to specifications ANSI C63. These antennas can be moved over the height range between 1.0 m and 4.0 m in order to search for maximum field strength emitted from EUT. The measurement distances between EUT and receiving antennas are indicated in the test setups for the various frequency ranges. For each measurement, the EUT is rotated in all three axes until the maximum field strength is received. The wanted and unwanted emissions are received by spectrum analyzers where the detector modes and resolution bandwidths over various frequency ranges are set according to requirement ANSI C63.



Measurement distance: tri-log antenna 10 meter
EMC32 software version: 10.59.00

$$FS = UR + CL + AF$$

(FS-field strength; UR-voltage at the receiver; CL-loss of the cable; AF-antenna factor)

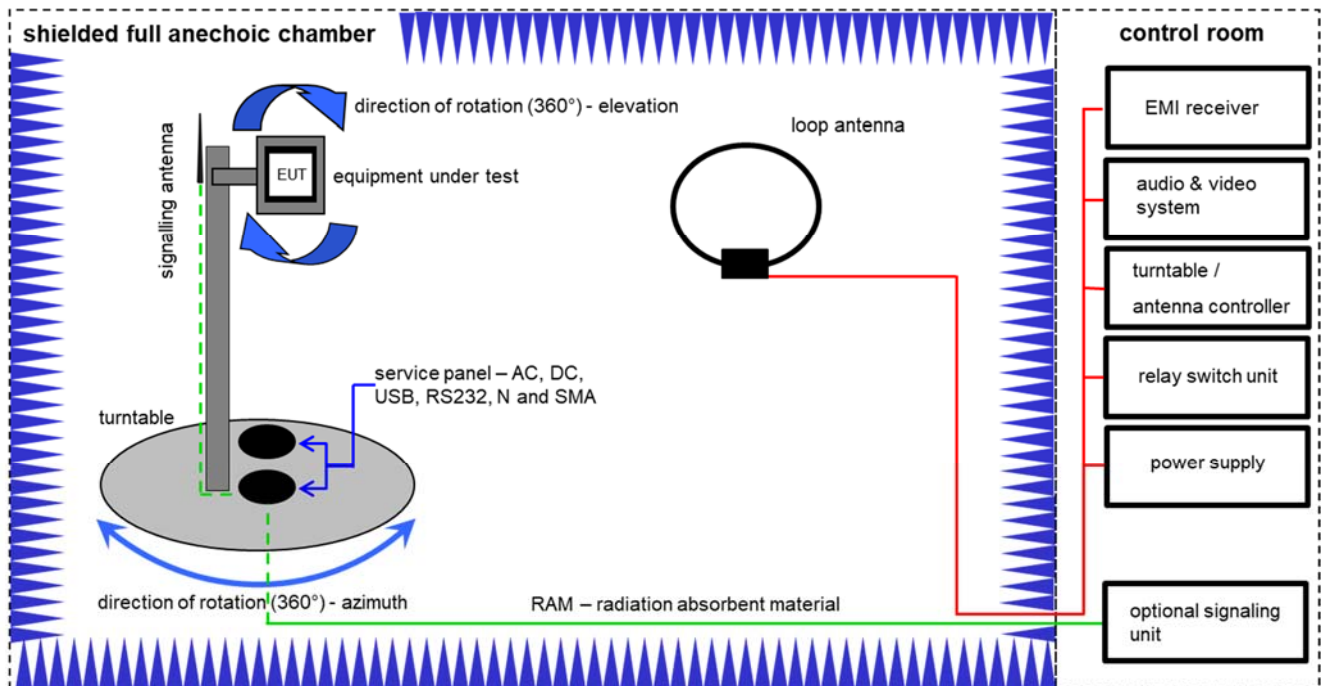
Example calculation:

$$FS [dB\mu V/m] = 12.35 [dB\mu V] + 1.90 [dB] + 16.80 [dB/m] = 31.05 [dB\mu V/m] \quad (35.69 \mu V/m) @ \text{distance}$$

Equipment table:

No.	Setup	Equipment	Type	Manufacturer	Serial No.	INV. No.	Kind of Calibration	Last Calibration	Next Calibration
1	A	Semi anechoic chamber	Semi anechoic chamber 3000023	MEC Import: MWB AG		40797	cnn	-/-	-/-
2	A	TRILOG Broadband Antenna	TRILOG Broadband Antenna VULB9163	Schwarzbeck MESS-ELEKTRONIK OHG Schöna	371	40798	cal	11.07.2024	31.07.2026
3	A	Turntable	Turntable 2089-4.0	EMCO Elektronik GmbH Gilching		40799	cnn	-/-	-/-
4	A	Analyzer-Impedence-System	Analyzer-Impedence-System AIS16/1	MEC Import: Spitzenberger + Spies GmbH & Co. KG	UO2076 07/0 1023	40808	cal	09.12.2025	31.12.2027
5	A	Switch-Unit	Switch-Unit 3488A	Hewlett Packard	2719A14505	50160	cpu	-/-	-/-
6	A	Power Supply	Power Supply 6032A	Hewlett Packard	2920A04466	50161	cnn	-/-	-/-
7	A	Positioning Controller	Positioning Controller 2090	ETS-Lindgren GmbH Taufkirchen	64672	50280	cnn	-/-	-/-
8	A	EMI Test Receiver	EMI Test Receiver ESR3 9kHz-3.6GHz	Rohde & Schwarz Messgerätebau GmbH Memmingen	102587	50417	cal	08.12.2025	31.12.2026

7.2 Shielded fully anechoic chamber



Measurement distance: loop antenna 3 meter

$$FS = UR + CA + AF$$

(FS-field strength; UR-voltage at the receiver; CA-loss of the signal path; AF-antenna factor)

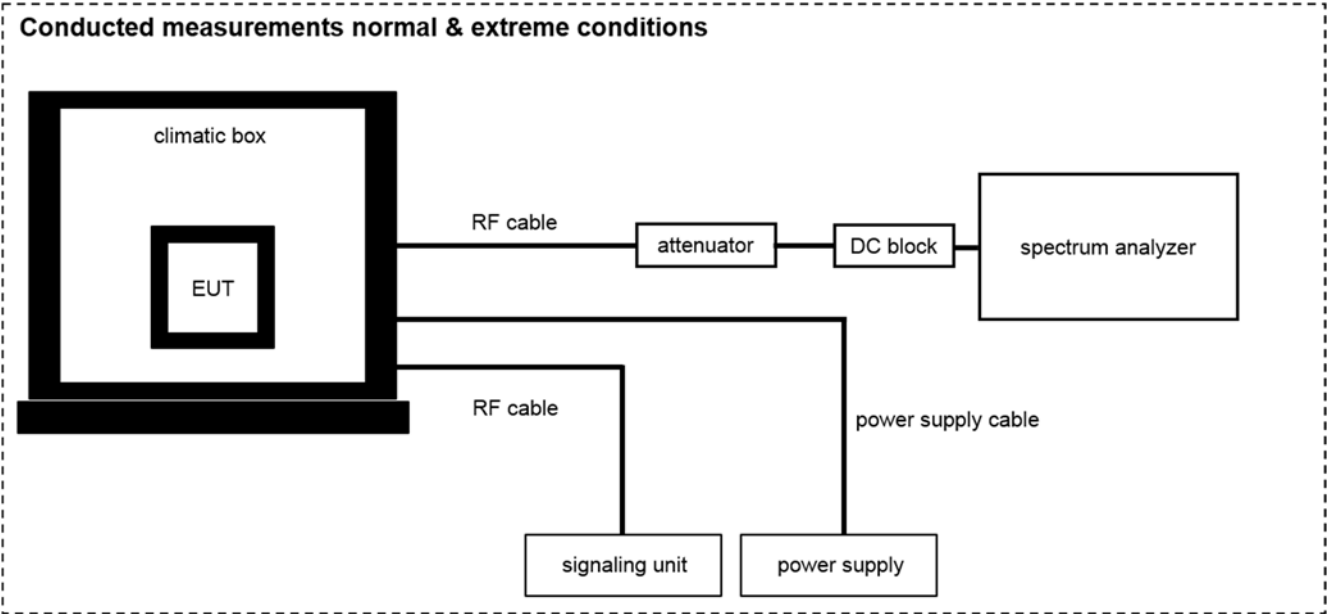
Example calculation:

$$FS [dB\mu V/m] = 40.0 [dB\mu V] + (-35.8) [dB] + 32.9 [dB/m] = 37.1 [dB\mu V/m] (71.61 \mu V/m) @ distance$$

Equipment table:

No.	Setup	Equipment	Type	Manufacturer	Serial No.	INV. No.	Kind of Calibration	Last Calibration	Next Calibration
1	A	Anechoic chamber	Anechoic chamber FAC 3/5m	MEC Import: MWB TDK	87400/02	40349	cpu	-/-	-/-
2	A	Switch / Control Unit	Switch / Control Unit 3488A	Hewlett Packard	*	40350	cnn	-/-	-/-
3	A	4U RF Switch Platform	4U RF Switch Platform L4491A	Agilent Technologies Deutschland GmbH Böblingen	MY50000037	40375	cnn	-/-	-/-
4	A	NEXIO EMV-Software	NEXIO EMV-Software BAT EMC V2022.0.32.0	MEC Import: Nexio		40383	cnn	-/-	-/-
5	A	Power Supply	Power Supply HMP2020	Rohde & Schwarz Messgerätebau GmbH Memmingen	120579	40408	cal	03.12.2025	31.12.2027
6	A	Active Loop Antenna	Active Loop Antenna 6502	EMCO Elektronik GmbH Gilching	2210	50044	cal	07.07.2025	31.07.2027
7	A	EMI Test Receiver	EMI Test Receiver ESU26	Rohde & Schwarz Messgerätebau GmbH Memmingen	100037	50254	cal	11.12.2025	31.12.2026

7.3 Conducted measurements normal and extreme conditions



OP = AV + CA
(OP-output power; AV-analyzer value; CA-loss signal path)

Example calculation:
OP [dBm] = 6.0 [dBm] + 11.7 [dB] = 17.7 [dBm] (58.88 mW)

Equipment table:

No.	Setup	Equipment	Type	Manufacturer	Serial No.	INV. No.	Kind of Calibration	Last Calibration	Next Calibration
1	A,B	Signal analyzer	Signal analyzer FSV30	Rohde & Schwarz Messgerätebau GmbH Memmingen	104365	40319	cal	04.12.2025	31.12.2026
2	B	Temperature Test Chamber	Temperature Test Chamber VT 4002	MEC Import: Heraeus Voetsch	521/83761	40826	chk	18.09.2024	18.09.2026
3	A,B	Power Supply	Power Supply HMP2020	Rohde & Schwarz Messgerätebau GmbH Memmingen	102219	40847	cal	04.12.2024	31.12.2026

8 Sequence of testing

8.1 Sequence of testing radiated spurious 9 kHz to 30 MHz

Setup

- The equipment is set up to simulate normal operation mode as described in the user manual or defined by the manufacturer.
- If the EUT is a tabletop system, it is placed on a table with 0.8 m height.
- If the EUT is a floor standing device, it is placed directly on the turn table.
- Auxiliary equipment and cables are positioned to simulate normal operation conditions as described in ANSI C 63.10.
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- Measurement distance is 3 m (see ANSI C 63.10) – see test details.
- EUT is set into operation.

Premeasurement*

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna height is 1 m.
- At each turntable position the analyzer sweeps with positive-peak detector to find the maximum of all emissions.

Final measurement

- Identified emissions during the pre-measurement are maximized by the software by rotating the turntable from 0° to 360°.
- Loop antenna is rotated about its vertical axis for maximum response at each azimuth about the EUT. (For certain applications, the loop antenna plane may also need to be positioned horizontally at the specified distance from the EUT)
- The final measurement is done in the position (turntable and elevation) causing the highest emissions with quasi-peak (as described in ANSI C 63.10).
- Final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. A plot with the graph of the premeasurement and the limit is stored.

*)Note: The sequence will be repeated three times with different EUT orientations.

8.2 Sequence of testing radiated spurious 30 MHz to 1 GHz

Setup

- The equipment is set up to simulate normal operation mode as described in the user manual or defined by the manufacturer.
- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables are positioned to simulate normal operation conditions as described in ANSI C 63.10.
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- Measurement distance is 10 m or 3 m (see ANSI C 63.10) – see test details.
- EUT is set into operation.

Premeasurement

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna is polarized vertical and horizontal.
- The antenna height changes from 1 m to 3 m.
- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

Final measurement

- The final measurement is performed for at least six highest peaks according to the requirements of the ANSI C63.4.
- Based on antenna and turntable positions at which the peak values are measured the software maximize the peaks by changing turntable position $\pm 45^\circ$ and antenna height between 1 and 4 m.
- The final measurement is done with quasi-peak detector (as described in ANSI C 63.10).
- Final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit are recorded. A plot with the graph of the premeasurement with marked maximum final results and the limit is stored.

9 Measurement uncertainty

Measurement uncertainty	
Test case	Uncertainty
Frequency measurements	$\pm$ RBW
Maximum field strength	$\pm$ 3 dB
Spurious emissions radiated below 30 MHz	$\pm$ 3 dB
Spurious emissions radiated 30 MHz to 1 GHz	$\pm$ 3 dB
Spurious emissions conducted below 30 MHz (AC conducted)	$\pm$ 2.6 dB

10 Summary of measurement results

☒	No deviations from the technical specifications were ascertained
☐	There were deviations from the technical specifications ascertained
☐	This test report is only a partial test report. The content and verdict of the performed test cases are listed below.

TC Identifier	Description	Verdict	Date	Remark
RF-Testing	CFR Part 15 RSS 216 Issue 3 RSS Gen Issue 5	See table!	2026-07-24	-/-

Test specification clause	Test case	Temperature conditions	Power source conditions	C	NC	NA	NP	Remark
RSS Gen Issue 5 (6.6)	Occupied bandwidth	Nominal	Nominal	☒	☐	☐	☐	-/-
§ 15.209 RSS 216 Issue 3 (5.3)	Field strength of the fundamental	Nominal	Nominal	☒	☐	☐	☐	-/-
RSS 216 Issue 3 (5.5)	Frequency stability	extreme	extreme	☒	☐	☐	☐	-/-
§ 15.209 RSS Gen Issue 5 (6.13)	Field strength of the harmonics and spurious	Nominal	Nominal	☒	☐	☐	☐	-/-
§15.107 §15.207	Conducted limits	Nominal	Nominal	☐	☐	☒	☐	Car battery operated

Note: C = Complies; NC = Not complies; NA = Not applicable; NP = Not performed

11 Additional comments

Reference documents: None

Special test descriptions: None

Configuration descriptions: EUT classification: Type 3

12 Measurement results

12.1 Occupied bandwidth

Measurement:

The emission bandwidth (x dB) is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated x dB below the maximum in-band spectral density of the modulated signal.

Measurement parameters	
Detector:	Peak
Resolution bandwidth:	1 % – 5 % of the occupied bandwidth
Video bandwidth:	$\geq 3 \times \text{RBW}$
Trace mode:	Max hold
Analyser function:	99 % power function
Used test setup:	See sub clause 7.3 A
Measurement uncertainty:	See sub clause 9

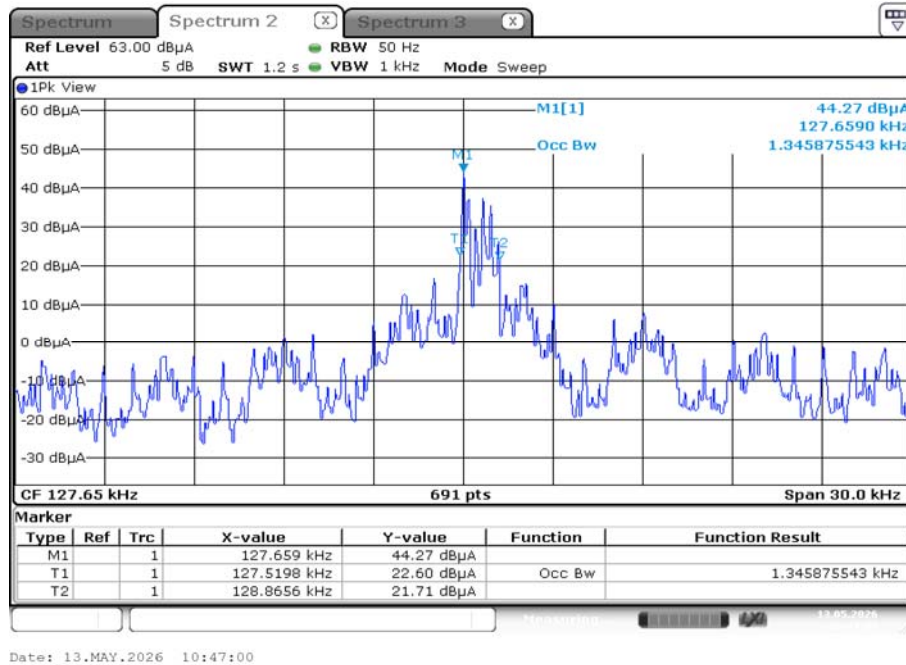
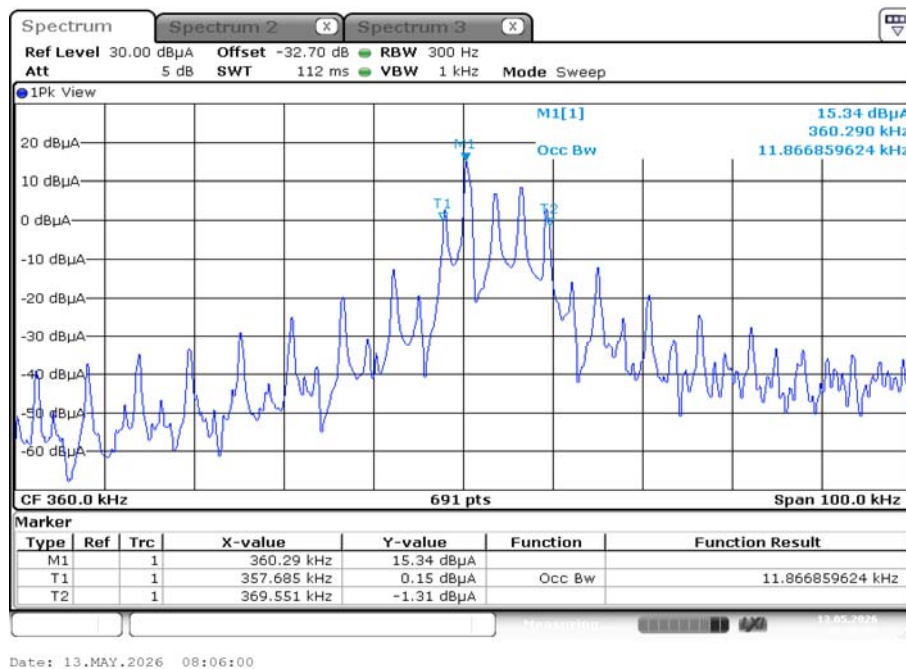
Limit:

ISED
for RSP-100 test report coversheet only

Result:

99% emission bandwidth, 127.55 kHz
1.346 kHz

99% emission bandwidth, 360 kHz
11.869 kHz

Plots:**Plot 1:** 99 % emission bandwidth, 127.55 kHz**Plot 2:** 99 % emission bandwidth, 360 kHz

12.2 Frequency stability

Measurement:

The maximum detected field strength for the spurious. Measurement performed according to ANSI C63.30, chapter 6.8

Measurement parameters	
Detector:	Peak detector
Resolution bandwidth:	5 Hz
Video bandwidth:	> RBW
Trace mode:	max hold
Used equipment:	see chapter 7.2 B
Measurement uncertainty:	see chapter 9

ISED
The frequency stability requirements with respect to ambient temperature specified in subclause 10.4.2 of ANSI C63.30-2021 shall apply only for WPT source devices intended for outdoor operation. This test shall be performed at the rated power supply voltage and for three ambient temperatures: -20°C, +20°C and +50°C The frequency stability with respect to power supply voltage shall apply to all WPT source devices.

Result: Temperature/ voltage variation

Frequency stability 127.55 kHz		
Measured frequency	Frequency error related to normal conditions	Conditions
127.657	0 Hz	+20 °C & 9 V DC
127.657	-/-	+20 °C & 12 VDC
127.657	0 Hz	+20 °C & 16 V DC
127.661	+4 Hz	-20 °C & 12 VDC
127.654	-3 Hz	+50 °C & 12 VDC

Frequency stability 360 kHz		
Measured frequency	Frequency error related to normal conditions	Conditions
360.353	0 Hz	+20 °C & 9 V DC
360.353	-/-	+20 °C & 12 VDC
360.354	+1 Hz	+20 °C & 16 V DC
360.367	+14 Hz	-20 °C & 12 VDC
360.350	-3 Hz	+50 °C & 12 VDC

12.3 Field strength of the fundamental

Measurement:

The maximum detected field strength for the carrier signal.

Measurement parameters	
Detector:	average
Resolution bandwidth:	200 Hz / 9kHz
Video bandwidth:	≥ 3x RBW
Trace mode:	Max hold
Used test setup	See sub clause 7.1 A
Measurement uncertainty:	See sub clause 9

Limit:

FCC			
Frequency (MHz)	Field strength / (μV/m)	Limit	Measurement distance
0.009 – 0.490	2400 / F/kHz	19.1 μV/m 25.6 dBμV/m @ 126 kHz	300 m
0.009 – 0.490	2400 / F/kHz	6.7 μV/m 16.5 dBμV/m @ 360 kHz	300 m

ISED			
Frequency (MHz)	Field strength / (dBμA/m)	Limit	Measurement distance
0.07 – 0.15 MHz	69 to 39	45.8 dBμA/m @ 126 kHz	3 m
0.15 – 30 MHz	39 to 7	33.7 dBμA/m @ 360 kHz	3 m

Recalculation:

According to ANSI C63.10		
Frequency	Formula	Correction value
127.55 kHz	$FS_{limit} = FS_{max} - 40 \log\left(\frac{d_{nearfield}}{d_{measure}}\right) - 20 \log\left(\frac{d_{limit}}{d_{nearfield}}\right)$ FS_{limit} is the calculation of field strength at the limit distance, expressed in dBμV/m FS_{max} is the measured field strength, expressed in dBμV/m $d_{nearfield}$ is the $\lambda/2\pi$ distance $d_{measure}$ is the distance of the measurement point from EUT d_{limit} is the reference limit distance	-82 dB from 3m to 300m

According to ANSI C63.10		
Frequency	Formula	Correction value
360 kHz	$FS_{limit} = FS_{max} - 40 \log\left(\frac{d_{nearfield}}{d_{measure}}\right) - 20 \log\left(\frac{d_{limit}}{d_{nearfield}}\right)$ FS_{limit} is the calculation of field strength at the limit distance, expressed in dBμV/m FS_{max} is the measured field strength, expressed in dBμV/m $d_{nearfield}$ is the $\lambda/2\pi$ distance $d_{measure}$ is the distance of the measurement point from EUT d_{limit} is the reference limit distance	-72.9 dB from 3m to 300m

Result:

Field strength of the fundamental		
frequency	125.35 kHz	
distance	@ 3 m	@ 300 m
measured / recalculated value	80 dB μ V/m*	-2.0 dB μ V/m
measured value	25.1 dB μ A/m*	-56.9 dB μ A/m

Field strength of the fundamental		
frequency	126.55 kHz	
distance	@ 3 m	@ 300 m
measured / recalculated value	79.9 dB μ V/m*	-2.1 dB μ V/m
measured value	26.2 dB μ A/m*	-55.8 dB μ A/m

Field strength of the fundamental		
frequency	127.55 kHz	
distance	@ 3 m	@ 300 m
measured / recalculated value	78.6 dB μ V/m*	-3.4 dB μ V/m
measured value	23.7 dB μ A/m*	-58.3 dB μ A/m

Field strength of the fundamental		
frequency	128.55 kHz	
distance	@ 3 m	@ 300 m
measured / recalculated value	75.5 dB μ V/m*	-6.5 dB μ V/m
measured value	24.3 dB μ A/m*	-57.7 dB μ A/m

Field strength of the fundamental		
frequency	129.75 kHz	
distance	@ 3 m	@ 300 m
measured / recalculated value	76.1 dB μ V/m*	-5.9 dB μ V/m
measured value	25.1 dB μ A/m*	-56.9 dB μ A/m

Field strength of the fundamental		
frequency	360 kHz	
distance	@ 3 m	@ 300 m
measured / recalculated value	72.7 dB μ V/m*	-0.2 dB μ V/m
measured value	21.4 dB μ A/m*	-51.5 dB μ A/m

*Values measured with two equal dummy loads under fully charging power (worst case scenario).

12.4 Field strength of the harmonics and spurious

Measurement:

The maximum detected field strength for the harmonics and spurious.

Measurement parameters	
Detector:	Quasi peak / average or peak (worst case – pre-scan)
Resolution bandwidth:	F < 150 kHz: 200 Hz 150 kHz < F < 30 MHz: 9 kHz 30 MHz < F < 1 GHz: 120 kHz
Video bandwidth:	F < 150 kHz: 1 kHz 150 kHz < F < 30 MHz: 100 kHz 30 MHz < F < 1 GHz: 300 kHz
Trace mode:	Max hold
Used test setup:	9 kHz to 30 MHz: see sub clause 7.1A
Measurement uncertainty:	See sub clause 9

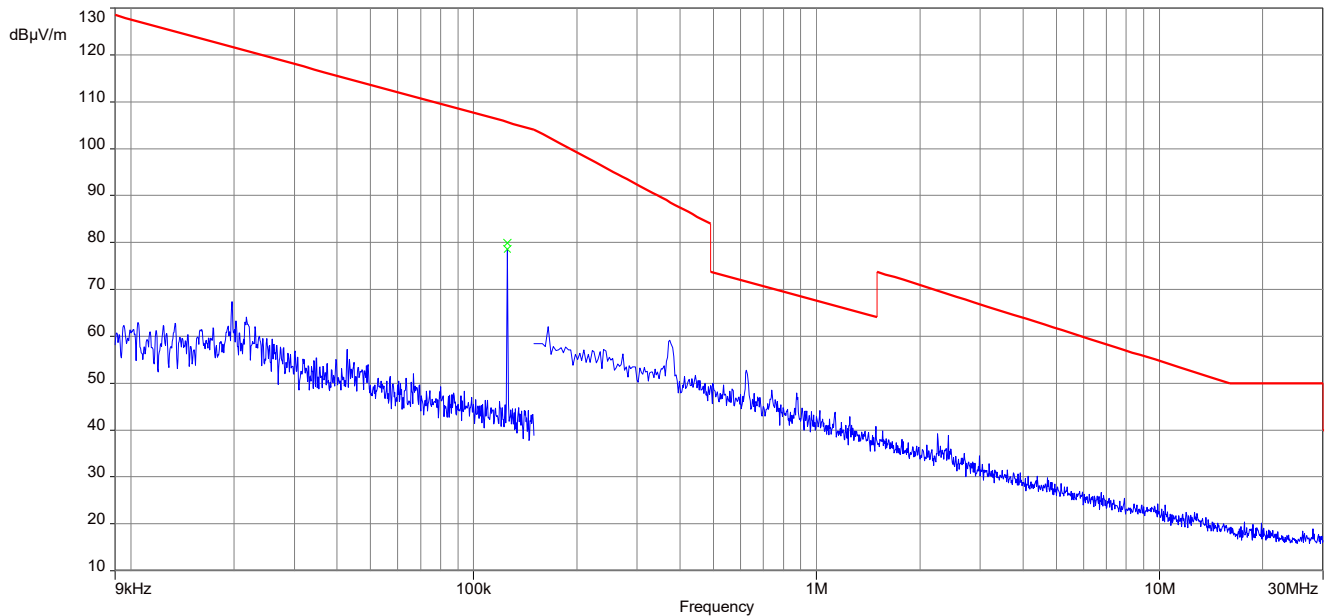
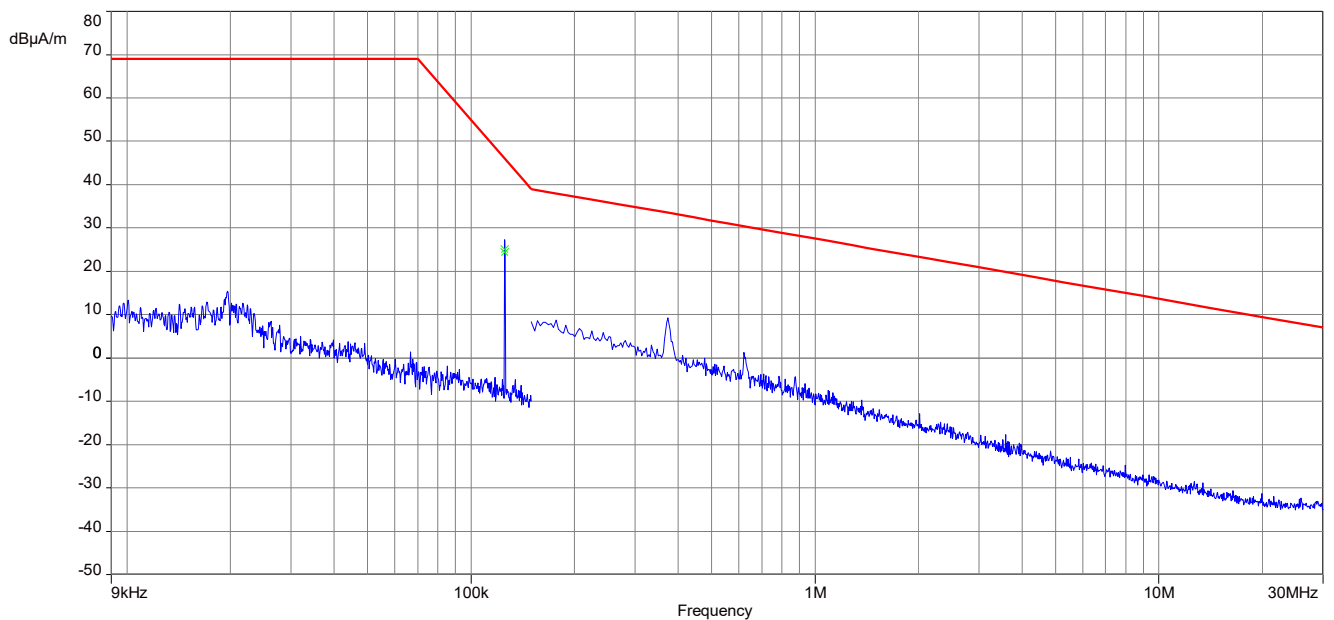
Limit:

FCC		
Frequency (MHz)	Field strength (dB μ V/m)	Measurement distance (m)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30	30 (29.5 dB μ V/m)	30
30 – 88	100 (40 dB μ V/m)	3
88 – 216	150 (43.5 dB μ V/m)	3
216 – 960	200 (46 dB μ V/m)	3

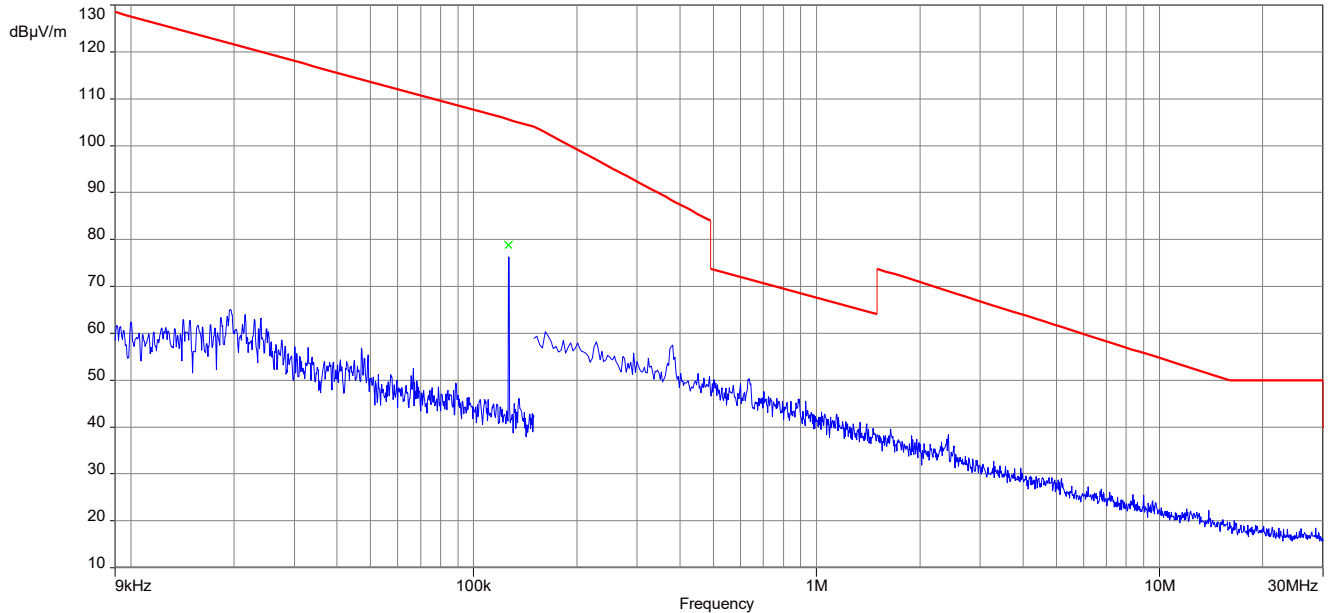
ISED		
Frequency (MHz)	Field strength (dB μ A/m)	Measurement distance (m)
0.009 – 0.07	69	3
0.07 – 0.15	69 to 39	3
0.15 – 30	39 to 7	3

Result:

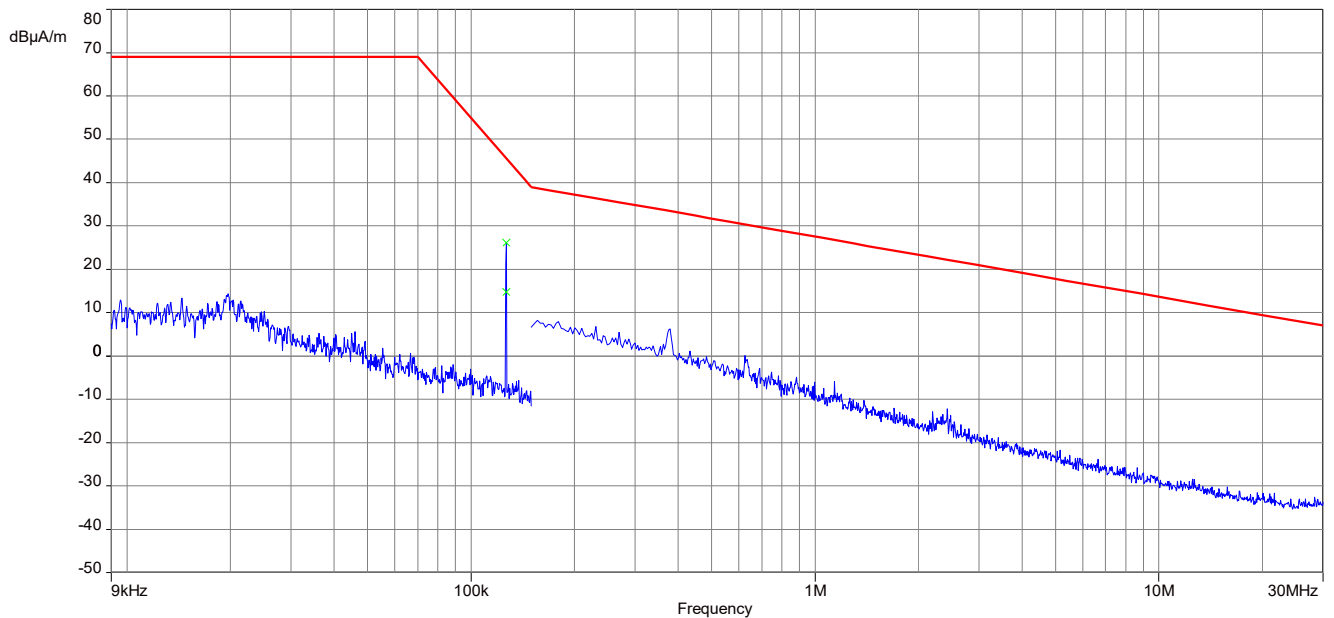
Detected emissions (both frequencies)			
Frequency (MHz)	Detector	Resolution bandwidth (kHz)	Detected value
No emissions detected.			

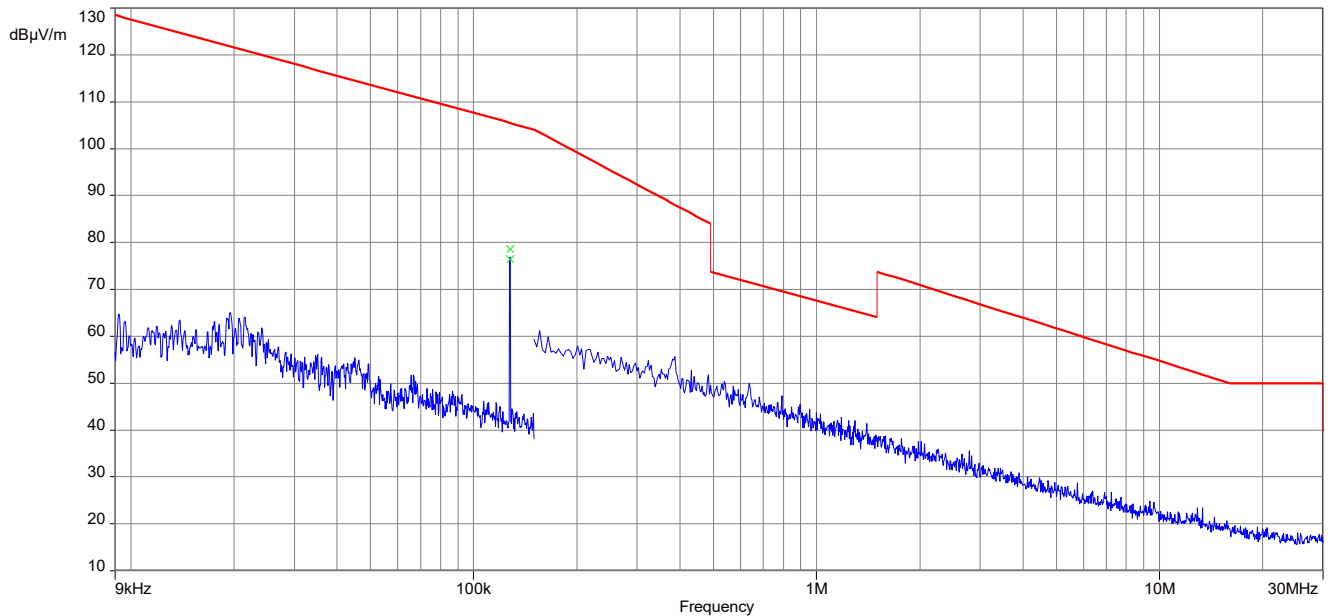
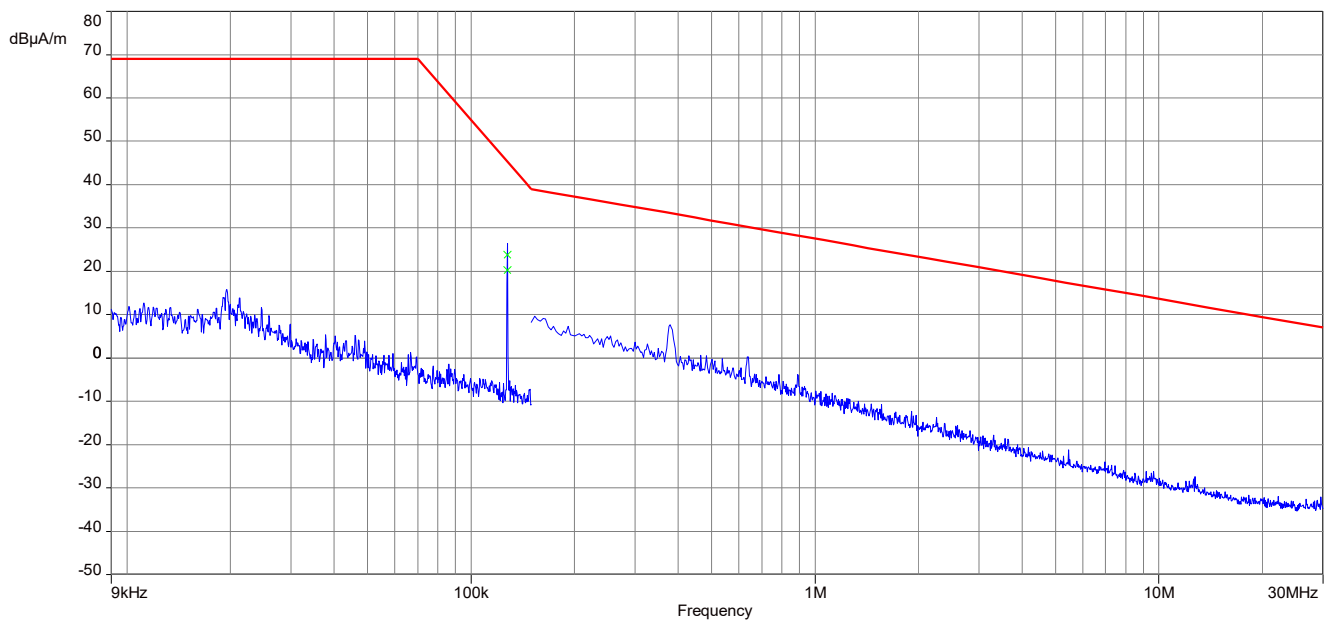
Plots:**Plot 1:** 9 kHz – 30 MHz, magnetic spurious emissions FCC, 125.35 kHz, 2*15W dummy load charging mode**Plot 2:** 9 kHz – 30 MHz, magnetic spurious emissions ISED, 125.35 kHz, 2*15W dummy load charging mode

Plot 3: 9 kHz – 30 MHz, magnetic spurious emissions FCC, 126.55 kHz, 2*15W dummy load charging mode

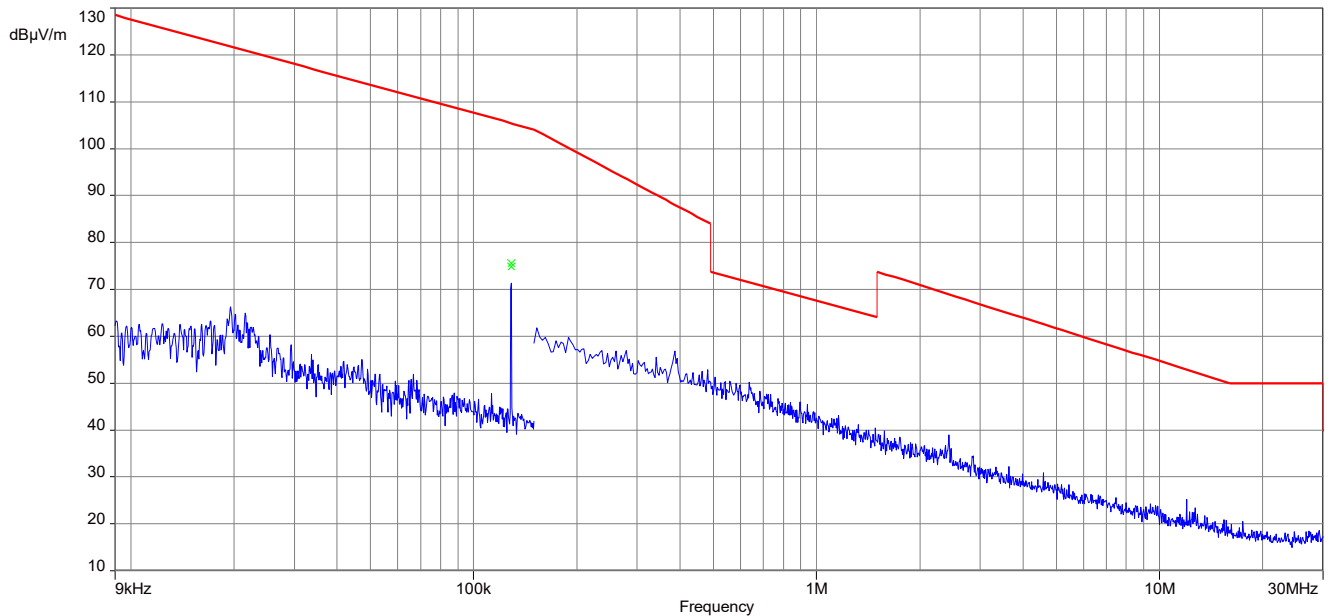


Plot 4: 9 kHz – 30 MHz, magnetic spurious emissions ISSED, 126.55 kHz, 2*15W dummy load charging mode

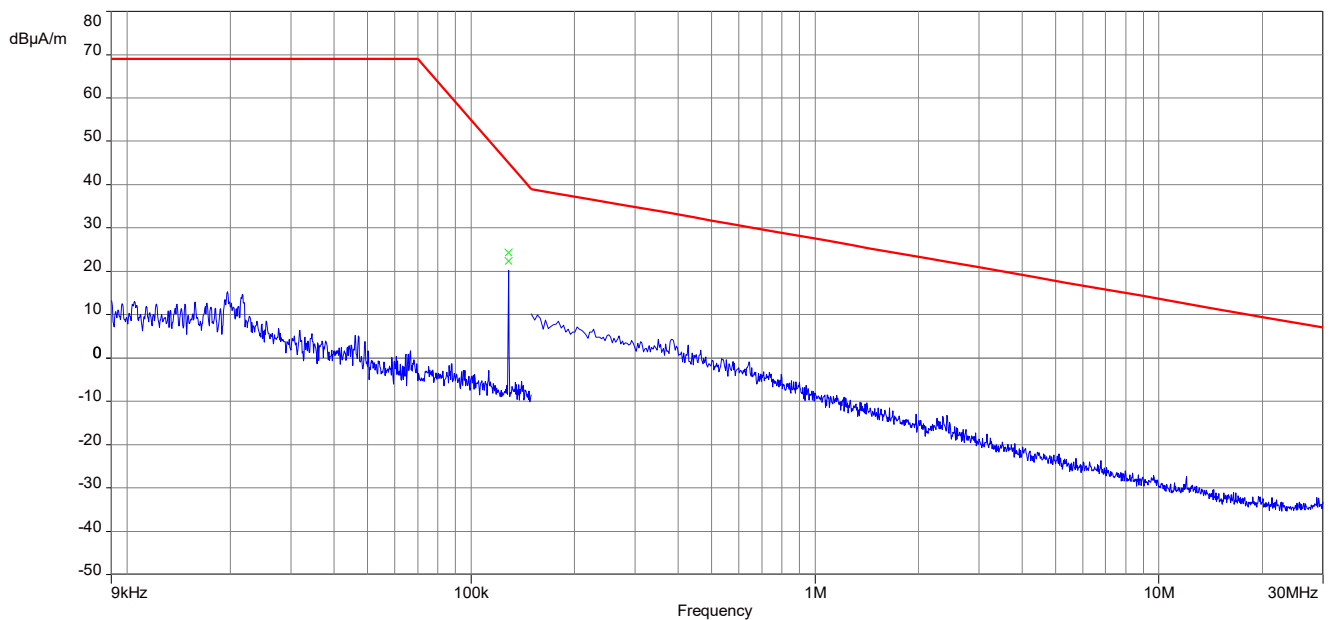


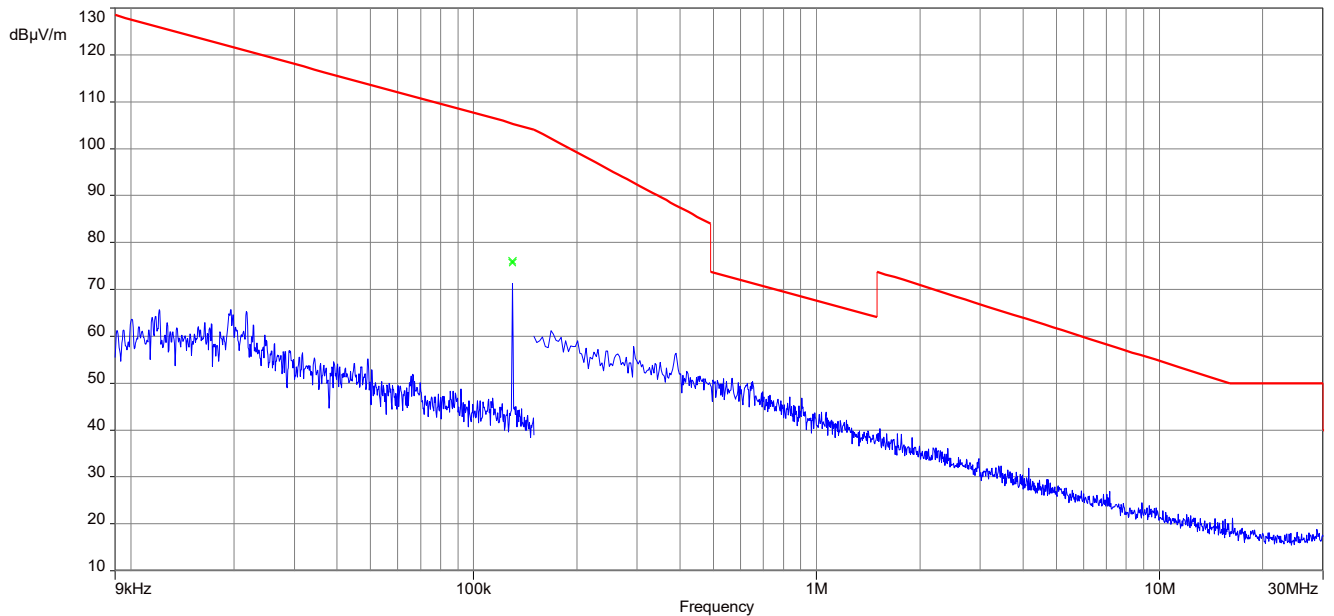
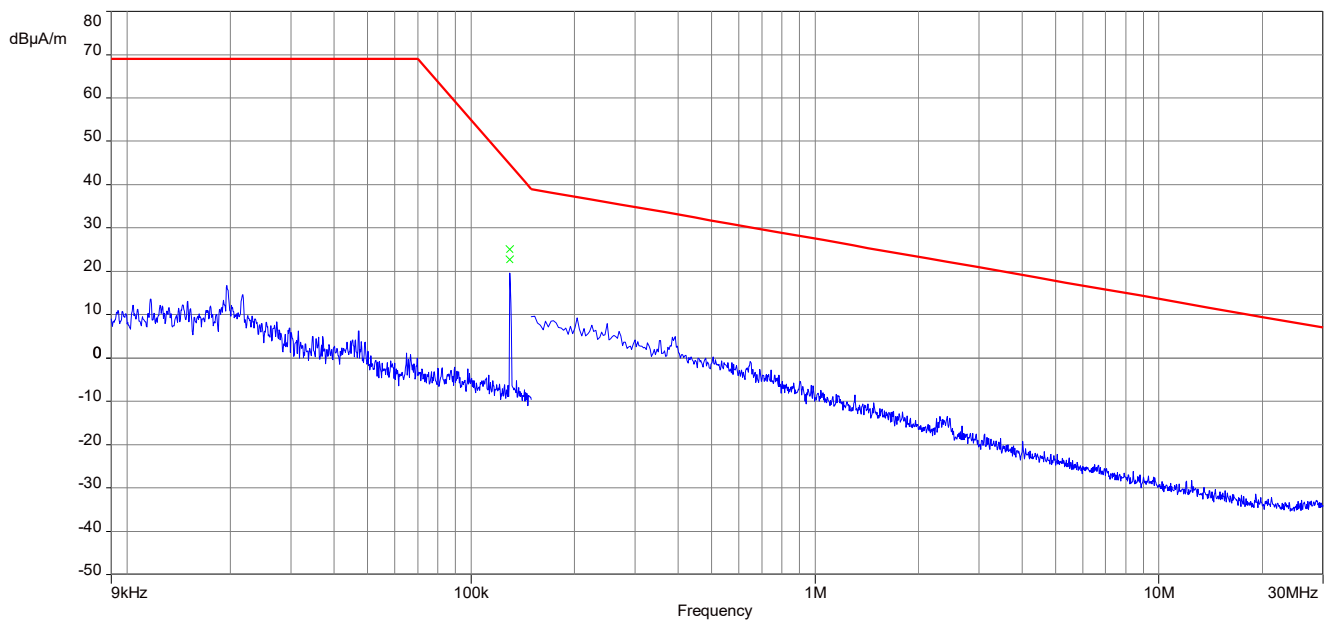
Plot 5: 9 kHz – 30 MHz, magnetic spurious emissions FCC, 127.55 kHz, 2*15W dummy load charging mode**Plot 6:** 9 kHz – 30 MHz, magnetic spurious emissions ISED, 127.55 kHz, 2*15W dummy load charging mode

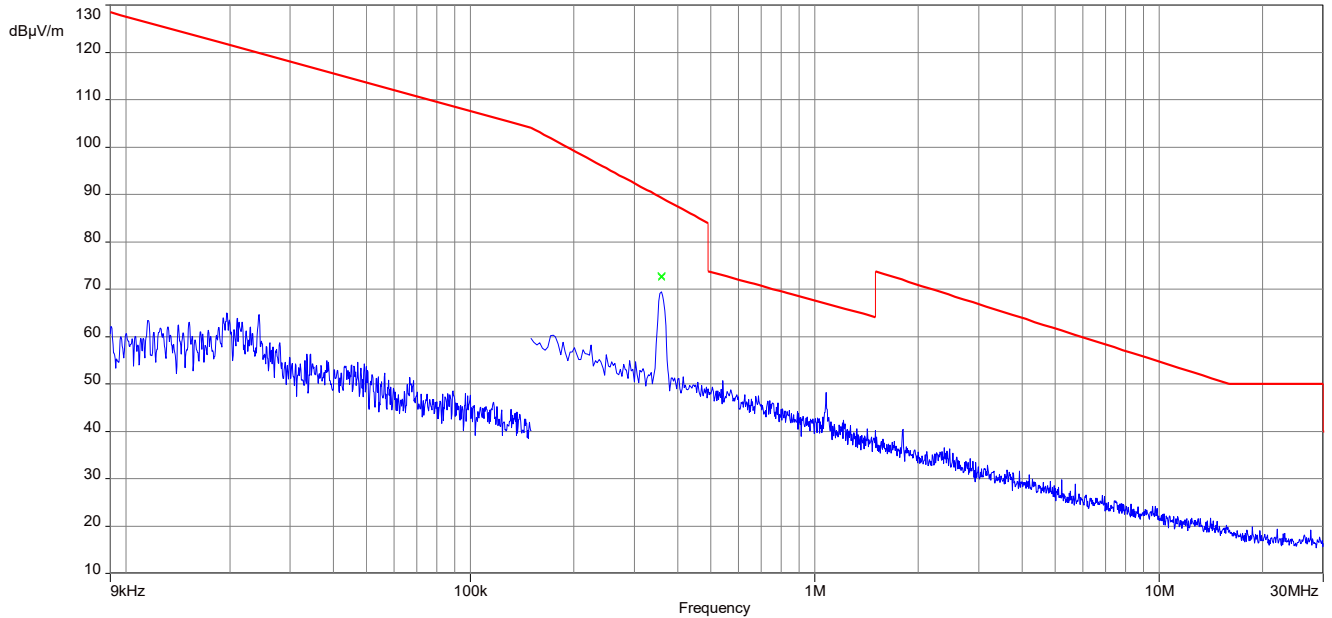
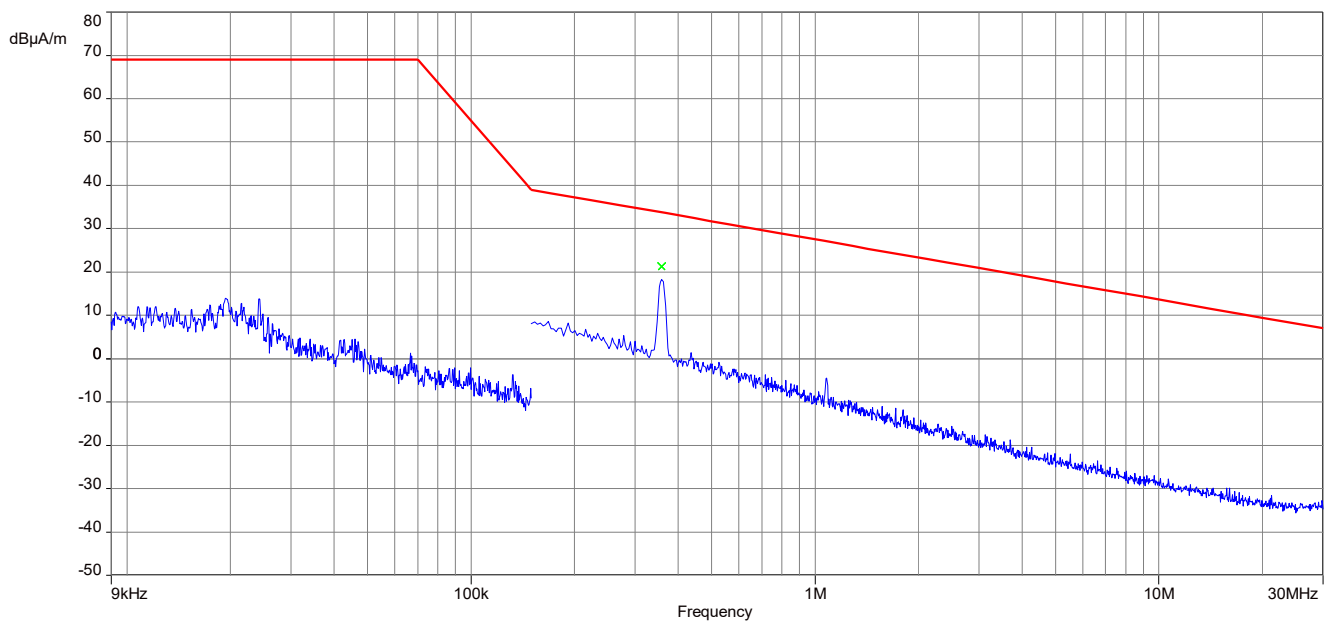
Plot 7: 9 kHz – 30 MHz, magnetic spurious emissions FCC, 128.55 kHz, 2*15W dummy load charging mode



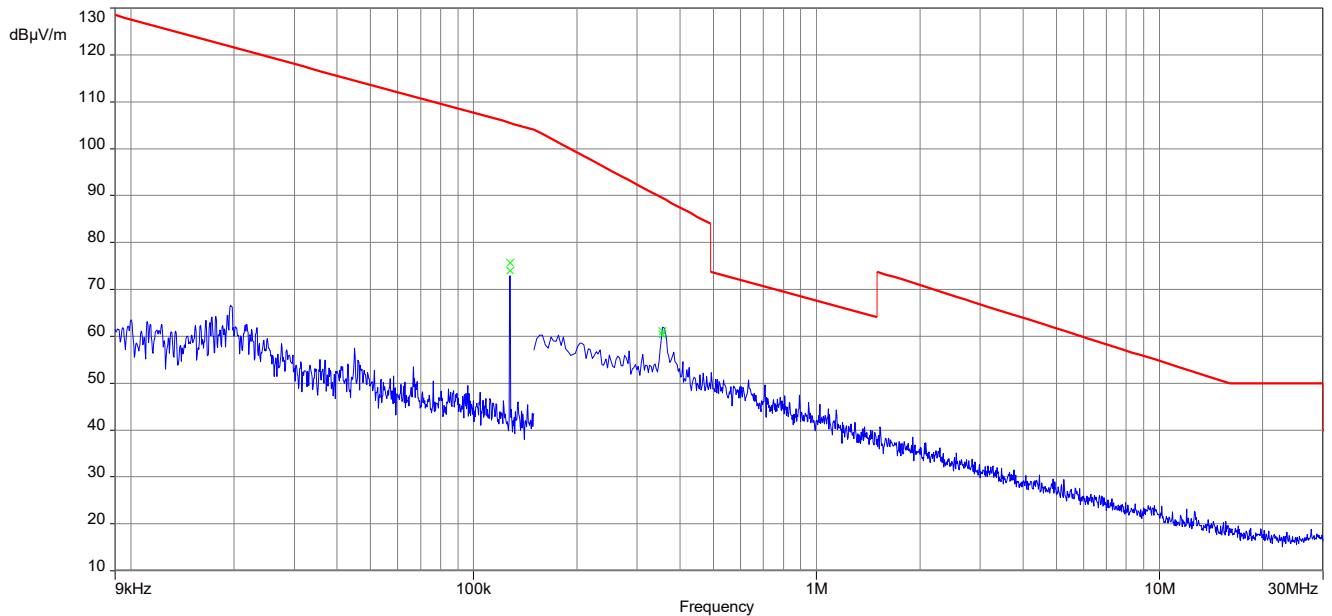
Plot 8: 9 kHz – 30 MHz, magnetic spurious emissions ISSED, 128.55 kHz, 2*15W dummy load charging mode



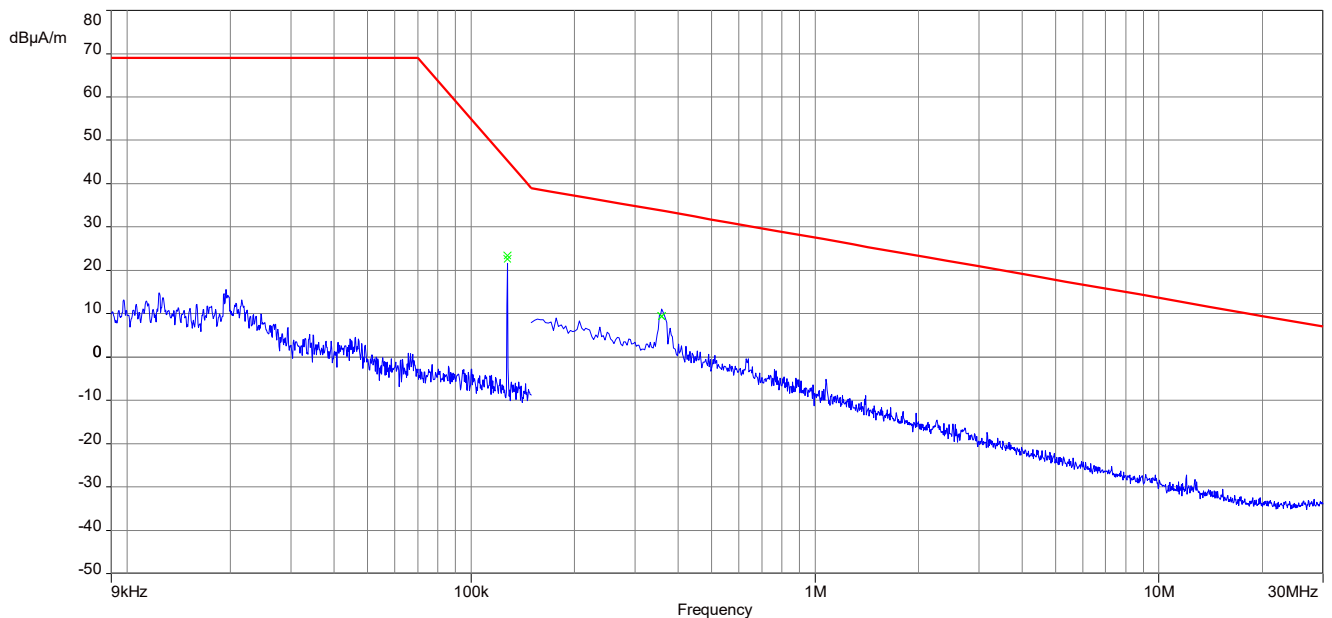
Plot 9: 9 kHz – 30 MHz, magnetic spurious emissions FCC, 129.75 kHz, 2*15W dummy load charging mode**Plot 10:** 9 kHz – 30 MHz, magnetic spurious emissions ISCED, 129.75 kHz, 2*15W dummy load charging mode

Plot 11: 9 kHz – 30 MHz, magnetic spurious emissions FCC, 360 kHz, 2*25W dummy load charging mode**Plot 12:** 9 kHz – 30 MHz, magnetic spurious emissions ISED, 360 kHz, 2*25W dummy load charging mode

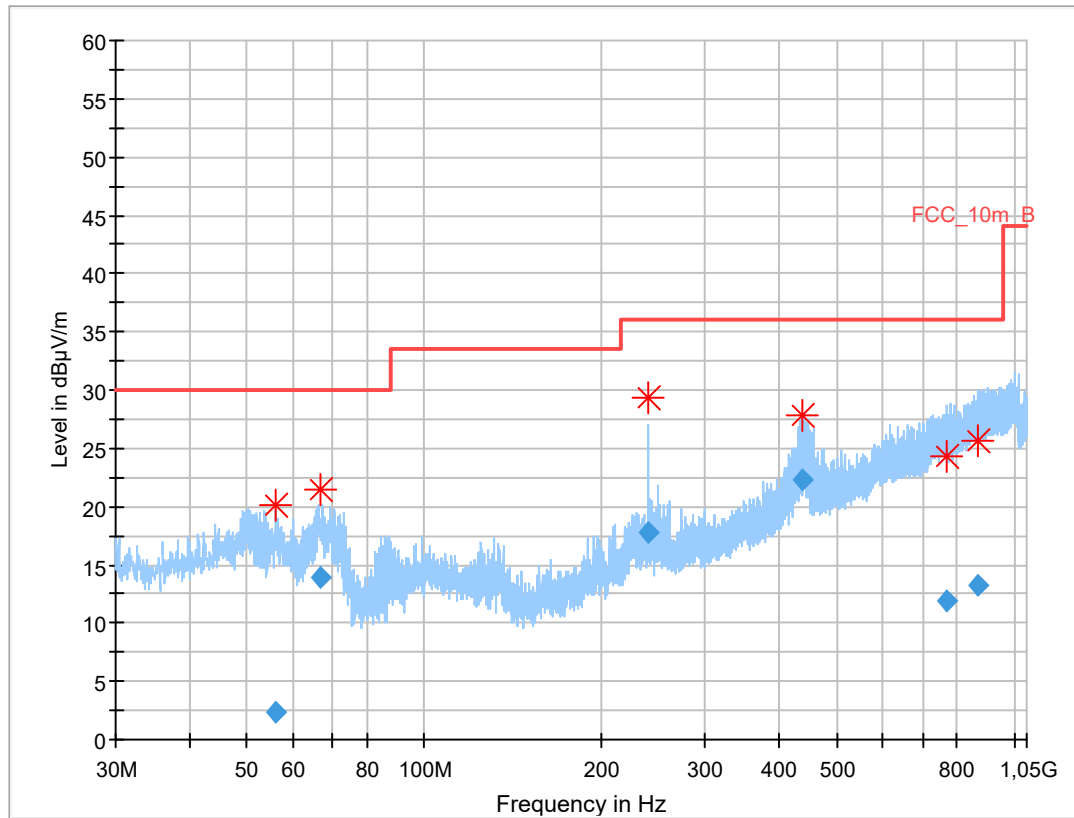
Plot 13: 9 kHz – 30 MHz, magnetic spurious emissions FCC, 127.55 kHz & 360 kHz, 1*15W +1*25W load charging mode



Plot 14: 9 kHz – 30 MHz, magnetic spurious emissions ISCED, 127.55 & 360 kHz, 1*15W +1*25W load charging mode



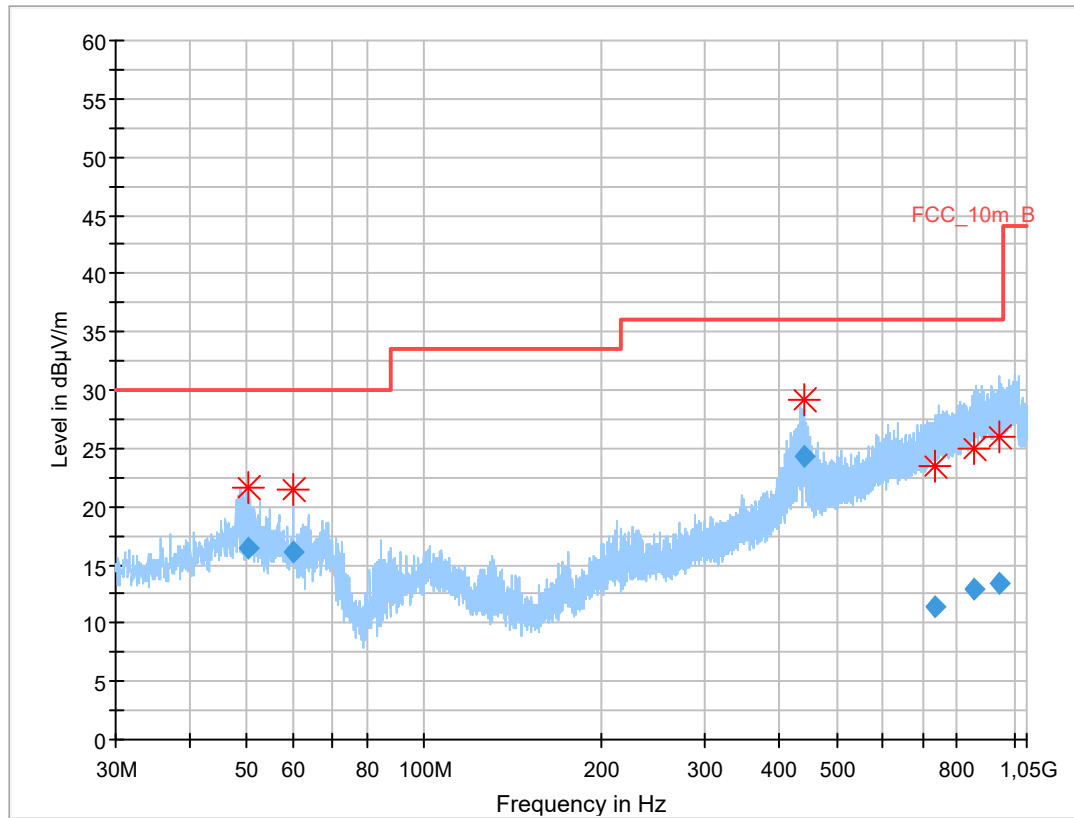
Plot15: 30 MHz – 1 GHz, vertical and horizontal polarization, performed on 125.35 kHz, 2*15W loads
(just for additional information)



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
55.884360	2.30	30.00	27.70	1000.0	120.000	400.0	H	287.0	15.3
66.860280	13.83	30.00	16.17	1000.0	120.000	375.0	V	45.0	11.0
239.999400	17.76	36.00	18.24	1000.0	120.000	135.0	V	270.0	13.4
438.676320	22.37	36.00	13.63	1000.0	120.000	100.0	V	313.0	18.0
766.696080	11.91	36.00	24.09	1000.0	120.000	400.0	H	211.0	23.3
871.325400	13.26	36.00	22.74	1000.0	120.000	174.0	V	104.0	24.4

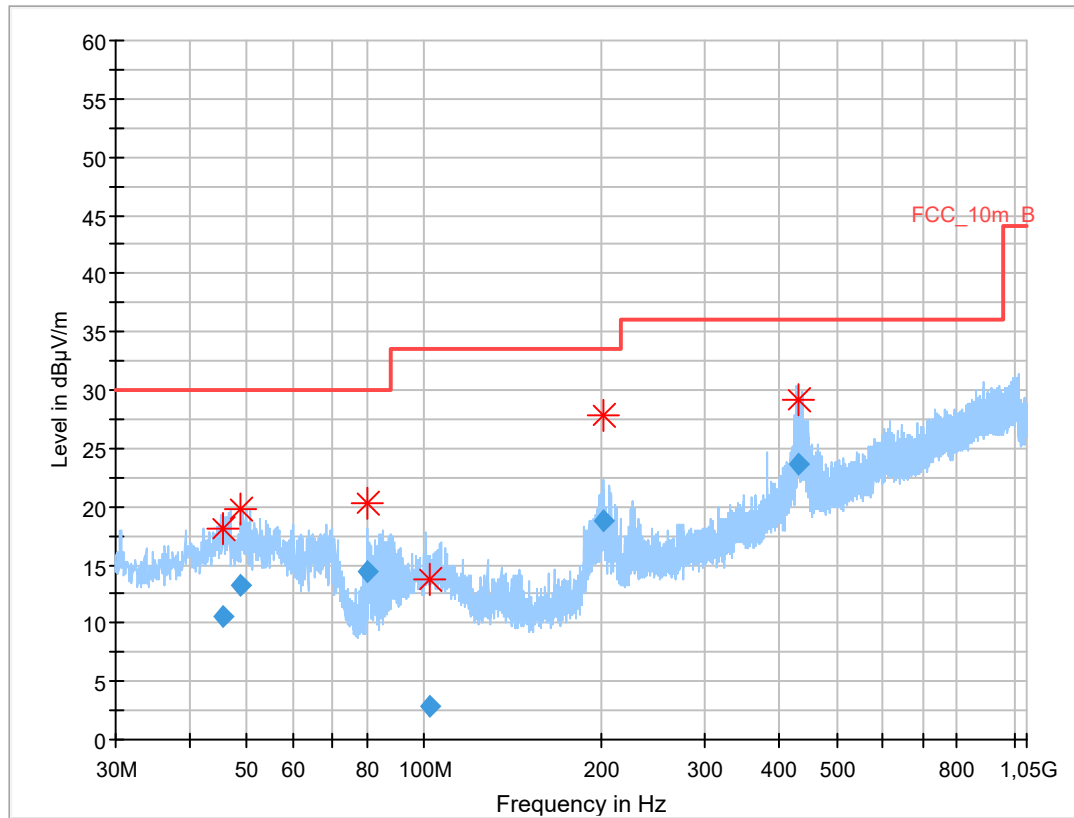
Plot16: 30 MHz – 1 GHz, vertical and horizontal polarization, performed on 126.55 kHz, 2*15W loads
(just for additional information)



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
50.270280	16.38	30.00	13.62	1000.0	120.000	192.0	V	0.0	14.5
59.986920	16.06	30.00	13.94	1000.0	120.000	330.0	V	201.0	13.8
439.937760	24.27	36.00	11.73	1000.0	120.000	103.0	V	315.0	18.1
735.107040	11.39	36.00	24.61	1000.0	120.000	338.0	H	101.0	22.9
852.453360	12.87	36.00	23.13	1000.0	120.000	388.0	H	303.0	24.2
942.965280	13.47	36.00	22.53	1000.0	120.000	386.0	H	135.0	24.8

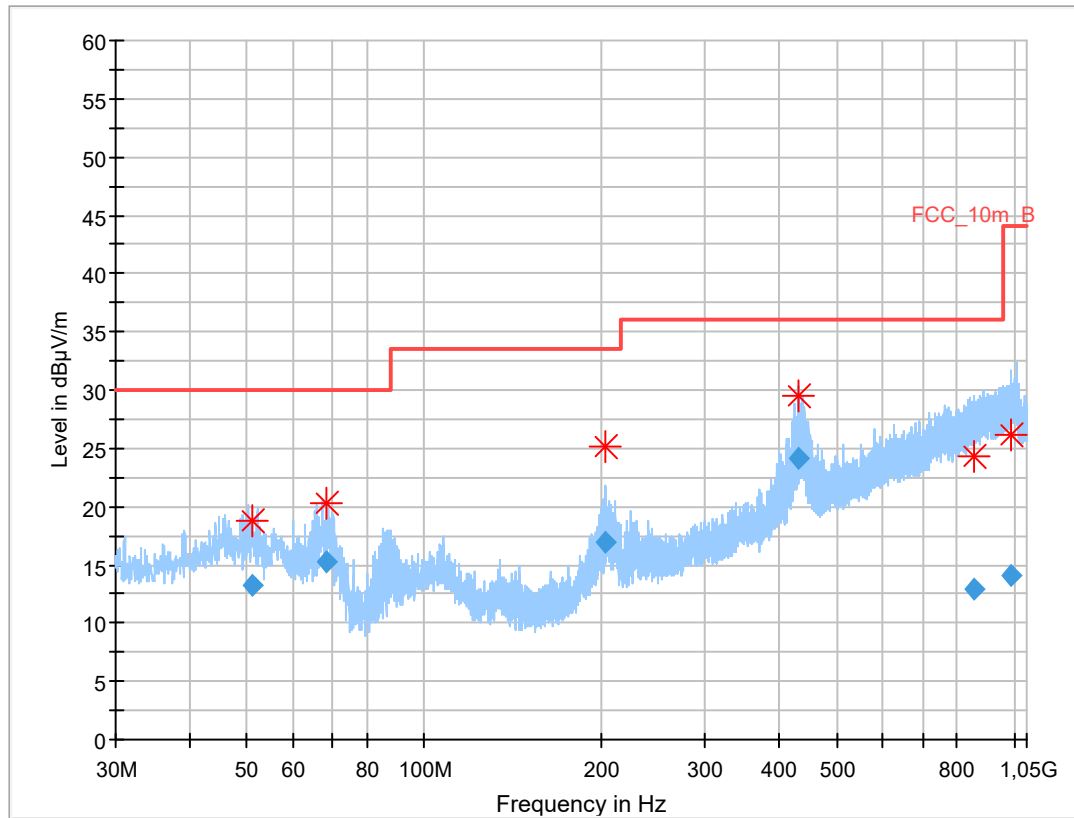
Plot17: 30 MHz – 1 GHz, vertical and horizontal polarization, performed on 127.55 kHz, 2*15W loads
(just for additional information)



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
45.672480	10.60	30.00	19.40	1000.0	120.000	144.0	V	44.0	14.2
48.907080	13.24	30.00	16.76	1000.0	120.000	146.0	V	106.0	14.4
79.998000	14.46	30.00	15.54	1000.0	120.000	316.0	V	136.0	7.6
101.906160	2.80	33.50	30.70	1000.0	120.000	165.0	V	-11.0	13.0
201.944520	18.72	33.50	14.78	1000.0	120.000	200.0	V	115.0	11.8
429.878160	23.61	36.00	12.39	1000.0	120.000	105.0	V	316.0	18.2

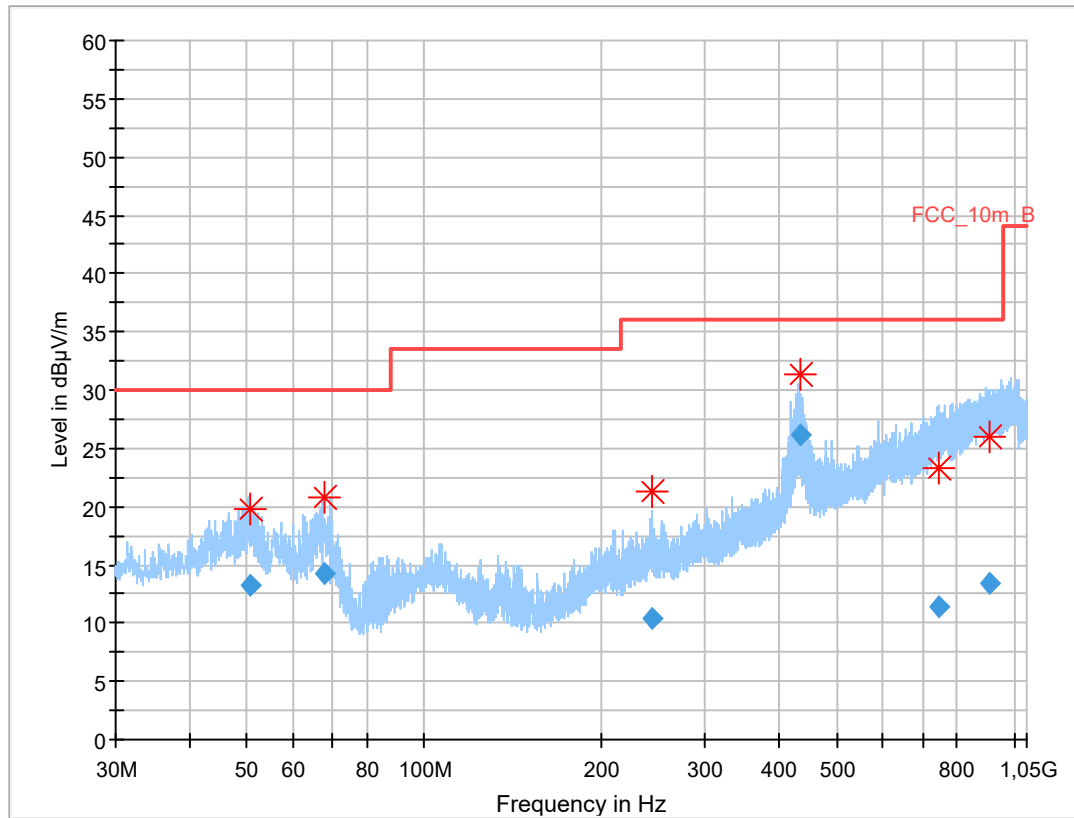
Plot18: 30 MHz – 1 GHz, vertical and horizontal polarization, performed on 128.55 kHz, 2*15W loads
(just for additional information)



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
51.176400	13.29	30.00	16.71	1000.0	120.000	200.0	V	36.0	14.5
68.254200	15.21	30.00	14.79	1000.0	120.000	200.0	V	210.0	10.6
202.316880	16.91	33.50	16.59	1000.0	120.000	200.0	V	140.0	11.8
430.192320	24.06	36.00	11.94	1000.0	120.000	107.0	V	-14.0	18.2
856.513560	12.94	36.00	23.06	1000.0	120.000	191.0	V	165.0	24.3
989.154360	14.14	44.00	29.86	1000.0	120.000	377.0	H	118.0	25.5

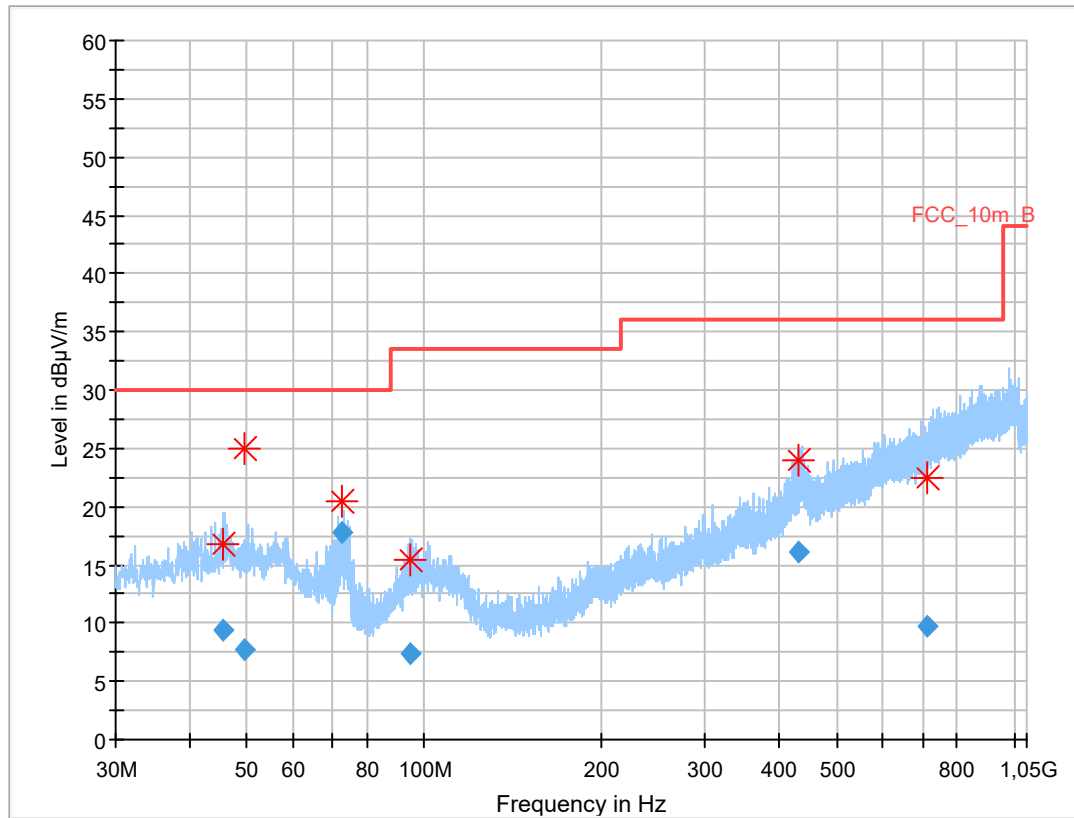
Plot19: 30 MHz – 1 GHz, vertical and horizontal polarization, performed on 129.75 kHz, 2*15W loads
(just for additional information)



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
50.740080	13.28	30.00	16.72	1000.0	120.000	192.0	V	209.0	14.5
67.751280	14.27	30.00	15.73	1000.0	120.000	268.0	V	99.0	10.7
244.257120	10.47	36.00	25.53	1000.0	120.000	126.0	V	249.0	13.5
432.701520	26.15	36.00	9.85	1000.0	120.000	108.0	V	328.0	18.2
746.585280	11.33	36.00	24.67	1000.0	120.000	400.0	V	-30.0	23.1
908.889360	13.37	36.00	22.63	1000.0	120.000	255.0	V	159.0	24.8

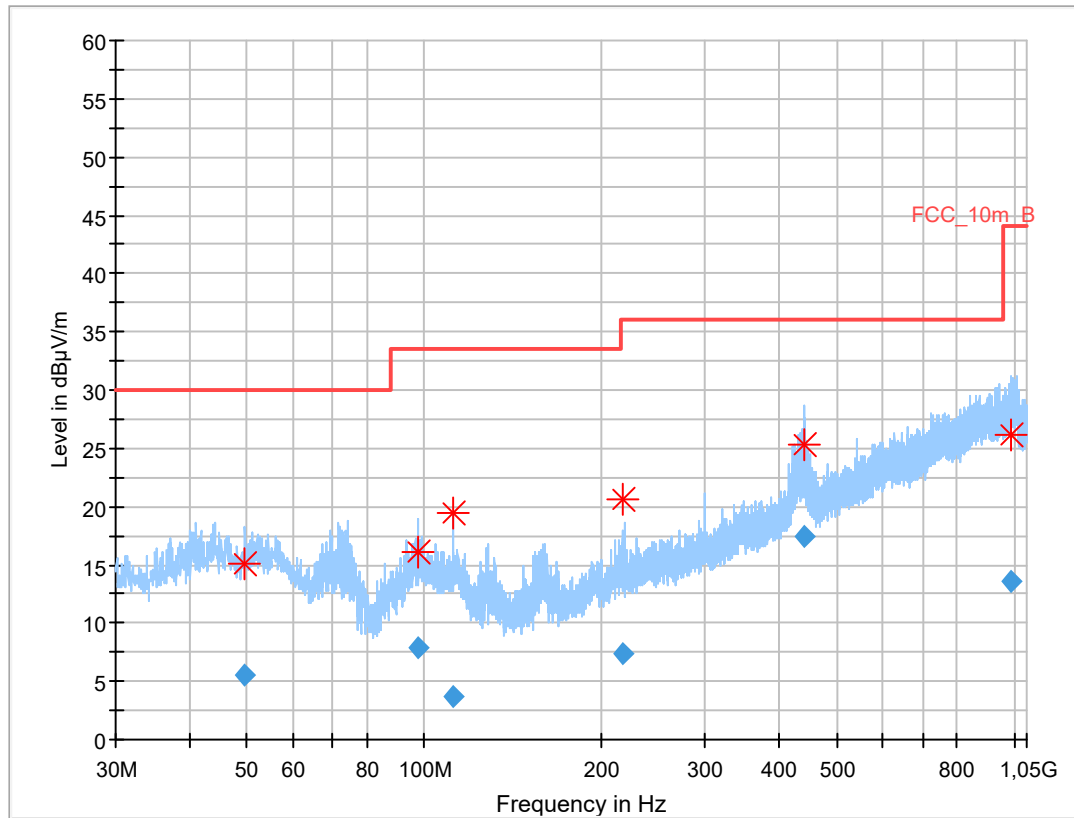
Plot 20: 30 MHz – 1 GHz, vertical and horizontal polarization, performed on 360 kHz, 2*25W loads
(just for additional information)



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
45.760080	9.42	30.00	20.58	1000.0	120.000	100.0	V	106.0	14.2
49.737840	7.79	30.00	22.21	1000.0	120.000	400.0	V	105.0	14.5
72.525000	17.72	30.00	12.28	1000.0	120.000	268.0	V	158.0	9.0
94.506720	7.35	33.50	26.15	1000.0	120.000	316.0	V	184.0	11.9
429.665760	16.14	36.00	19.86	1000.0	120.000	108.0	V	53.0	18.2
711.487320	9.80	36.00	26.20	1000.0	120.000	165.0	V	19.0	21.9

Plot 21: 30 MHz – 1 GHz, vertical and horizontal polarization, performed on 127.55 KHz & 360 kHz, 1*15W & 1*25W loads (just for additional information)



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
49.727520	5.59	30.00	24.41	1000.0	120.000	200.0	V	30.0	14.5
97.913400	7.88	33.50	25.62	1000.0	120.000	200.0	V	240.0	12.5
111.712800	3.66	33.50	29.84	1000.0	120.000	376.0	V	112.0	12.5
217.860720	7.41	36.00	28.59	1000.0	120.000	251.0	V	202.0	12.3
440.596560	17.45	36.00	18.55	1000.0	120.000	103.0	V	29.0	18.0
986.477880	13.65	44.00	30.35	1000.0	120.000	187.0	V	210.0	25.4

13 Observations

No observations except those reported with the single test cases have been made.

14 Glossary

AVG	Average
C	Compliant
C/N₀	Carrier to noise-density ratio, expressed in dB-Hz
CAC	Channel availability check
CW	Clean wave
DC	Duty cycle
DFS	Dynamic frequency selection
DSSS	Dynamic sequence spread spectrum
DUT	Device under test
EN	European Standard
ETSI	European Telecommunications Standards Institute
EMC	Electromagnetic Compatibility
EUT	Equipment under test
FCC	Federal Communications Commission
FCC ID	Combination of Grantee Code and Equipment Product Code
FHSS	Frequency hopping spread spectrum
FVIN	Firmware version identification number
GNSS	Global Navigation Satellite System
GUE	GNSS User Equipment
HMN	Host marketing name
HVIN	Hardware version identification number
HW	Hardware
ISED	Innovation, Science and Economic Development Canada
Inv. No.	Inventory number
MC	Modulated carrier
NA	Not applicable
NC	Not compliant
NOP	Non occupancy period
NP	Not performed
OBW	Occupied bandwidth
OC	Operating channel
OCW	Operating channel bandwidth
OFDM	Orthogonal frequency division multiplexing
OOB	Out of band
OP	Occupancy period
PER	Packet error rate
PMN	Product marketing name
PP	Positive peak
QP	Quasi peak
RLAN	Radio local area network
S/N or SN	Serial number
SW	Software
UUT	Unit under test
WLAN	Wireless local area network

15 Document history

Version	Applied changes	Date of release
R01	Initial release	2026-06-23

END OF TEST REPORT