



Test Report

REP184844-1TRFWL

Date of issue: September 10, 2026

Applicant:

MoJoose, INC

Product description:

Signal boosting mobile phone battery back accessory (w/ intentional radiation via 170kHz inductive RF)

Model:

LX-AP-US-2001B

Variants:

None

FCC ID:

2AFV8-CAMJI6B1002

ISED certification number:

20621-MJP16B1002

Specifications:

- ◆ **FCC 47 CFR Part 15 – §15.207/209**
Conducted Limits, Radiated Emission Limits; General Requirements
- ◆ **RSS-216 Issue 3**
Wireless Power Transfer Devices

Lab and test locations

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FCC Site Number	Test Firm Registration Number: 392943; Designation Number: US5058
ISED Test Site	2040B-3

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Review date	September 10, 2026
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Limits of responsibility

Note that the results contained in this report relate only to the items tested and were obtained in the period between the date of initial receipt of samples and the date of issue of the report.

This test report has been completed in accordance with the requirements of ISO/IEC 17025. All results contain in this report are within Nemko USA's ISO/IEC 17025 accreditation.

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Section 1 Report summary

1.1 Test specifications

FCC 47 CFR Part 15 – §15.209	Radiated emission limits; general requirements
FCC 47 CFR Part 15 – §15.207	Conducted Limits
RSS-216, Issue 3	Wireless Power Transfer Devices
RSS-GEN, Issue 5	General Requirements for Compliance of Radio Apparatus
ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

1.2 Exclusions

None

1.3 Statement of compliance

Testing was performed against all relevant requirements of the test standard(s) as outlined in Section 1.2 above.

Results obtained indicate that the product under test complies in full with the tested requirements.

The test results relate only to the item(s) tested.

See “Section 2 Summary of test results” for full details.

1.4 Test report revision history

Table 1.4-1: Test report revision history

Revision #	Issue Date	Details of changes made to test report
REP184844-1TRFWL	September 10, 2026	Original report issued

Section 2 Summary of test results

2.1 Sample information

Receipt date	02-Apr-26
Nemko sample ID number	PRJ0099564

2.2 Testing period

Test start date	02-Apr-26
Test end date	04-Sep-26

2.3 FCC Part 15 Subpart C, general requirements test results

Part	Test description	Verdict
§15.207	Conducted limits	Pass
§15.209	Radiated emission limits; general requirements	Pass

2.4 RSS-216, Issue 3, test results

Part	Test description	Verdict
RSS-216 §5.3.2	AC power-line conducted emissions limits	Pass
RSS-216 §5.3.3	Radiated emission limits	Pass
RSS-216 §5.5	Frequency tolerance	Pass
RSS-GEN §5.1	Occupied bandwidth	Pass

Section 3 Equipment under test (EUT) details

3.1 Disclaimer

This section contains information provided by the applicant and has been utilized to support the test plan. Inaccurate information provided by the applicant can affect the validity of the results within this test report. Nemko accepts no responsibility for the information contained within this section and the impact it may have on the test plan and resulting measurements.

3.2 Applicant

Company name	MoJoose, INC
Address	27821 Trellis Way Laguna
City	Niguel
State	CA
Postal/Zip code	92677
Country	United States

3.3 Manufacturer

Company name	MoJoose, INC
Address	27821 Trellis Way Laguna
City	Niguel
State	CA
Postal/Zip code	92677
Country	United States

3.4 EUT information

Product name	Signal boosting mobile phone battery back accessory (w/ intentional radiation via 170kHz inductive RF)
Model	LX-AP-US-2001B
Variant(s)	None
Serial number	008
Part number	N/A
Power requirements	5V DC / 2 A, 9V DC / 2.22 A, 12 V DC / 1.67 A
Description/theory of operation	The product uses a patented circuit to amplify a cellular signal by combining a multi-band donor antenna, a very low power low-noise amplifier (LNA) and near field coupling probes. The larger external antenna captures weak signals from cell towers which are amplified by the LNA. The probes transfer the enhanced signal directly to the phone's internal antenna.
Operational frequencies	100-170 kHz
Software details	Proprietary embedded firmware

3.5 EUT setup details

Table 3.5-1: EUT sub assemblies

Description	Brand name	Model/Part number	Serial number	Rev.
USB (type C)	N/A			

Table 3.5-2: EUT interface ports

Description	Qty.
N/A	

Table 3.5-3: Support equipment

Description	Brand name	Model/Part number	Serial number	Rev.
iPhone (Host)	Apple	iPhone 17 Pro (MG7L4LL/A)	D4CMXKD0GC	
Android Phone (Host)	Samsung	Galaxy S26 (SM-S942U1)	RFGL23NEP4Z	

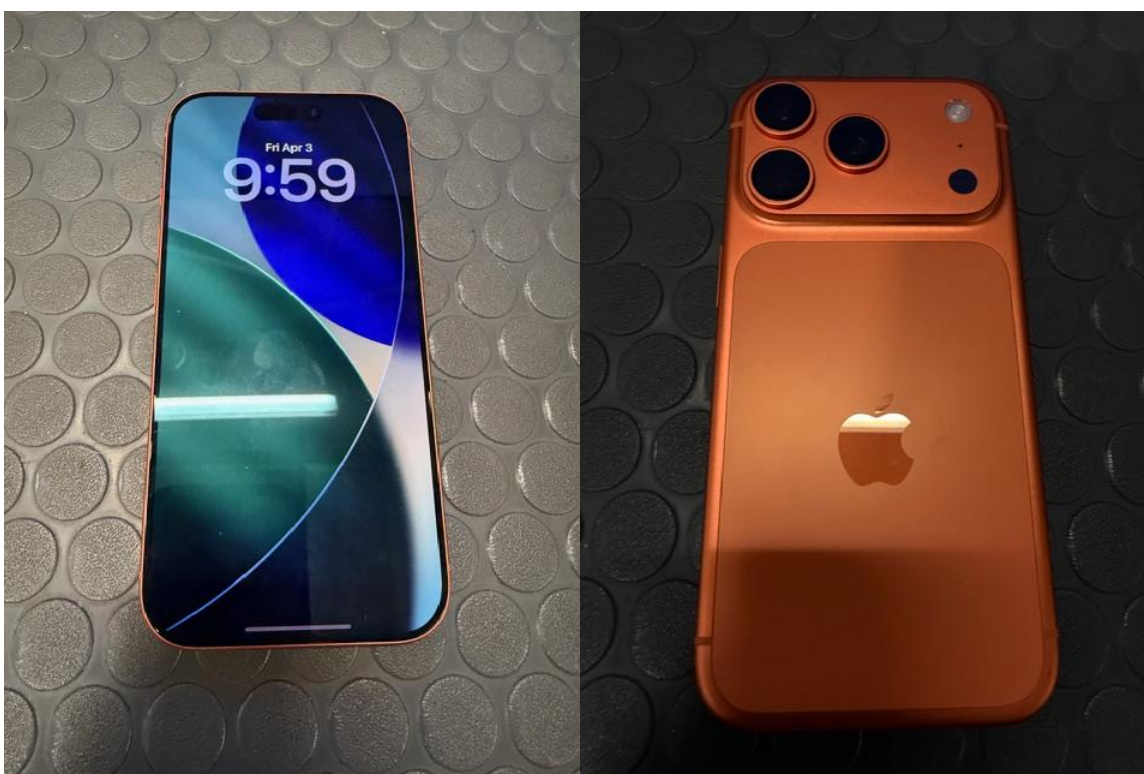


Figure 3.5-1: Support Equipment – iPhone 17 Pro (Front & Rear, respectively)



Figure 3.5-2: Support Equipment – Samsung Galaxy SM-S942U1 (Front & Rear, respectively)

Table 3.5-4: Inter-connection cables

Cable description	From	To	Length (m)
N/A			

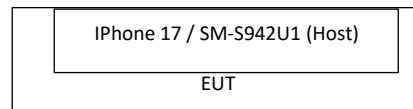


Figure 3.5-3: Test setup diagram

Section 4 Engineering considerations

4.1 Modifications incorporated in the EUT

None.

4.2 Technical judgement

None.

4.3 Deviations from laboratory test procedures

None.

Section 5 Test conditions

5.1 Atmospheric conditions

Temperature	15–30 °C
Relative humidity	20–75 %
Air pressure	86–106 kPa

When it is impracticable to carry out tests under these conditions, a note to this effect stating the ambient temperature and relative humidity during the tests shall be recorded and stated.

5.2 Power supply range

The normal test voltage for equipment to be connected to the mains shall be the nominal mains voltage. For the purpose of the present document, the nominal voltage shall be the declared voltage, or any of the declared voltages ± 5 %, for which the equipment was designed.

Section 6 Measurement uncertainty

6.1 Uncertainty of measurement

Nemko USA Inc. has calculated measurement uncertainty and is documented in EMC/MUC/001 "Uncertainty in EMC measurements." Measurement uncertainty was calculated using the methods described in CISPR 16-4-2 Specification for radio disturbance and immunity measuring apparatus and methods – Part 4-2: Uncertainties, statistics, and limit modelling – Measurement instrumentation uncertainty. The expression of Uncertainty in EMC testing. Measurement uncertainty calculations assume a coverage factor of $K=2$ with 95% certainty.

Table 6.1-1: Measurement uncertainty calculations

Measurement		U_{cispr} dB	U_{lab} dB
Conducted disturbance at AC mains and other port power using a V-AMN	9 kHz to 150 kHz	3.8	2.9
	150 kHz to 30 MHz	3.4	2.3
Conducted disturbance at telecommunication port using AAN	150 kHz to 30 MHz	5.0	4.3
Conducted disturbance at telecommunication port using CVP	150 kHz to 30 MHz	3.9	2.9
Conducted disturbance at telecommunication port using CP	150 kHz to 30 MHz	2.9	1.4
Conducted disturbance at telecommunication port using CP and CVP	150 kHz to 30 MHz	4.0	3.1
Radiated disturbance (electric field strength in a SAC)	30 MHz to 1 GHz	6.3	5.5
Radiated disturbance (electric field strength in a FAR)	1 GHz to 6 GHz	5.2	4.7
Radiated disturbance (electric field strength in a FAR)	6 GHz to 18 GHz	5.5	5.0

- Notes: Compliance assessment:
- If U_{lab} is less than or equal to U_{cispr} then:
- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
 - non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit
- If U_{lab} is greater than U_{cispr} then:
- compliance is deemed to occur if no measured disturbance level, increased by $(U_{\text{lab}} - U_{\text{cispr}})$, exceeds the disturbance limit;
 - non-compliance is deemed to occur if any measured disturbance level, increased by $(U_{\text{lab}} - U_{\text{cispr}})$, exceeds the disturbance limit

V-AMN: V type artificial mains network
 AAN: Asymmetric artificial network
 CP: Current probe
 CVP: Capacitive voltage probe
 SAC: Semi-anechoic chamber
 FAR: Fully anechoic room

Section 7 Test equipment

7.1 Test equipment list

Table 7.1-1: Test Equipment List

Equipment	Manufacturer	Model no.	Asset no.	Cal cycle	Next cal.
Active Loop H Field Antenna	EMCO - HP	6502	E1267	1 Year	08-Aug-2026
Biconilog antenna (Type 7), 30 MHz - 6 GHz	ETS Lindgren	3142E	E1371	2 Years	20-Aug-2026
DRG Horn (medium)	ETS-Lindgren	3117-PA	E1139	2 Years	11-Jan-2028
Preamplifier	Sonoma	310N	E1155	1 Year	18-Jun-2026
EMI Test Receiver	Rohde & Schwarz	ESU26	E1353	1 Year	18-Dec-2026
Two Line V-Network	Rohde & Schwarz	ENV216	E1020	1 Year	06-Jun-2026
EMI Test Receiver 9kHz to 7GHz	Rohde & Schwarz	ESCI 7	E1026	2 Years	18-Apr-2026

Notes: NCR: no calibration required
VBU: verify before use

7.2 Test software list

Table 7.2-1: Test Software

Manufacturer	Details
Rohde & Schwarz	EMC 32 V10.60.10 (AC Conducted Emissions, radiated emissions)

Section 8 Testing data

8.1 Radiated emissions

8.1.1 References and limits

- FCC 47 CFR Part 15: §15.209(a)
- RSS-216: §5.3.3
- Test method: ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024: §6.3-6.6

Table 8.1-1: FCC §15.209 / RSS-GEN §8.9– Radiated emission limits

Frequency, MHz	Field strength of emissions		Measurement distance, m
	μV/m	dBμV/m	
0.009–0.490	2400/F	$67.6 - 20 \times \log_{10}(F)$	300
0.490–1.705	24000/F	$87.6 - 20 \times \log_{10}(F)$	30
1.705–30.0	30	29.5	30
30–88	100	40.0	3
88–216	150	43.5	3
216–960	200	46.0	3
above 960	500	54.0	3

Notes: In the emission table above, the tighter limit applies at the band edges.
For frequencies above 1 GHz the limit on peak RF emissions is 20 dB above the maximum permitted average emission limit applicable to the equipment under test.

Table 8.1-2: FCC restricted frequency bands

MHz	MHz	MHz	GHz
0.090–0.110	16.42–16.423	399.9–410	4.5–5.15
0.495–0.505	16.69475–16.69525	608–614	5.35–5.46
2.1735–2.1905	16.80425–16.80475	960–1240	7.25–7.75
4.125–4.128	25.5–25.67	1300–1427	8.025–8.5
4.17725–4.17775	37.5–38.25	1435–1626.5	9.0–9.2
4.20725–4.20775	73–74.6	1645.5–1646.5	9.3–9.5
6.215–6.218	74.8–75.2	1660–1710	10.6–12.7
6.26775–6.26825	108–121.94	1718.8–1722.2	13.25–13.4
6.31175–6.31225	123–138	2200–2300	14.47–14.5
8.291–8.294	149.9–150.05	2310–2390	15.35–16.2
8.362–8.366	156.52475–156.52525	2483.5–2500	17.7–21.4
8.37625–8.38675	156.7–156.9	2690–2900	22.01–23.12
8.41425–8.41475	162.0125–167.17	3260–3267	23.6–24.0
12.29–12.293	167.72–173.2	3332–3339	31.2–31.8
12.51975–12.52025	240–285	3345.8–3358	36.43–36.5
12.57675–12.57725	322–335.4	3600–4400	Above 38.6
13.36–13.41			

Table 8.1-3: ISSED RSS-GEN restricted frequency bands

MHz	MHz	GHz
090 - 0.110	149.9 - 150.05	9.0 - 9.2
0.495 - 0.505	156.52475 - 156.52525	9.3 - 9.5
2.1735 - 2.1905	156.7 - 156.9	10.6 - 12.7
3.020 - 3.026	162.0125 - 167.17	13.25 - 13.4
4.125 - 4.128	167.72 - 173.2	14.47 - 14.5
4.17725 - 4.17775	240 - 285	15.35 - 16.2
4.20725 - 4.20775	322 - 335.4	17.7 - 21.4
5.677 - 5.683	399.9 - 410	22.01 - 23.12
6.215 - 6.218	608 - 614	23.6 - 24.0
6.26775 - 6.26825	960 - 1427	31.2 - 31.8
6.31175 - 6.31225	1435 - 1626.5	36.43 - 36.5
8.291 - 8.294	1645.5 - 1646.5	Above 38.6
8.362 - 8.366	1660 - 1710	
8.37625 - 8.38675	1718.8 - 1722.2	
8.41425 - 8.41475	2200 - 2300	
12.29 - 12.293	2310 - 2390	
12.51975 - 12.52025	2483.5 - 2500	
12.57675 - 12.57725	2655 - 2900	
13.36 - 13.41	3260 - 3267	
16.42 - 16.423	3332 - 3339	
16.69475 - 16.69525	3345.8 - 3358	
16.80425 - 16.80475	3500 - 4400	
25.5 - 25.67	4500 - 5150	
37.5 - 38.25	5350 - 5460	
73 - 74.6	7250 - 7750	
74.8 - 75.2	8025 - 8500	
108 - 138		

Table 8.1-4: ISSED RSS-216 Magnetic field strength limits at 3 m distance (9 kHz to 30 MHz)

MHz	quasi-peak (dBμA/m)
0.009 to 0.07	69
0.07 to 0.15	69 to 39
0.15 to 30	39 to 7

8.1.2 Test summary

Verdict	Pass		
Test date	April 2, 2026	Temperature	20.1 °C 19 °C
Test engineer	Ka Poon, Wireless Test Engineer	Air pressure	1005.2 mbar 1006 mbar
Test location	☐ Wireless bench (conducted tests) ☒ 10 m semi-anechoic chamber (radiated tests) ☐ 3 m semi-anechoic chamber (radiated tests) ☐ Other:	Relative humidity	57 % 57 %

8.1.3 Notes

For radiated measurements, the EUT was investigated to identify the worst case orientation with respect to the fundamental transmitter power. All measurements were performed with the EUT in that worst-case orientation.

The spectral plots within this section have been corrected with all relevant transducer factors.

Data is presented with the support equipment phones on their own and again with the support equipment phones plus the equipment under test.

Since the fundamental emission signal level is extremely low, the presence of the transmitter was confirmed by observing the signal with a close (<1 m) loop antenna. This confirmed that the transmitter was operating as intended before performing the compliance measurements at a 3m measurement distance.

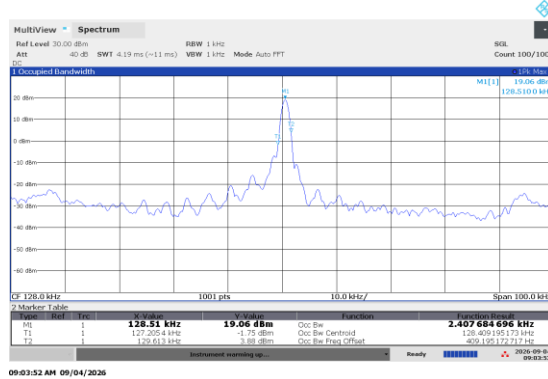


Figure 8.1-1: Fundamental signal iPhone



Figure 8.1-2: Fundamental signal Samsung

8.1.4 Setup details

EUT power input during test	N/A (Tested with support equipment phone battery fully charge)
EUT setup configuration	☒ Table-top ☐ Floor standing ☐ Other:
Receiver settings for radiated measurements below 30 MHz:	
Resolution bandwidth	9 kHz
Detector mode	Peak (preview measurements) Quasi-Peak (final measurements)
Receiver settings for radiated measurements below 1 GHz:	
Resolution bandwidth	120 kHz
Detector mode	Peak (preview measurements) Quasi-Peak (final measurements)
Receiver settings for radiated measurements above 1 GHz:	
Resolution bandwidth	1 MHz
Detector mode	Peak (preview measurements) Peak and average (final measurements)

8.1.5 Test data – FCC 15.209

Full Spectrum

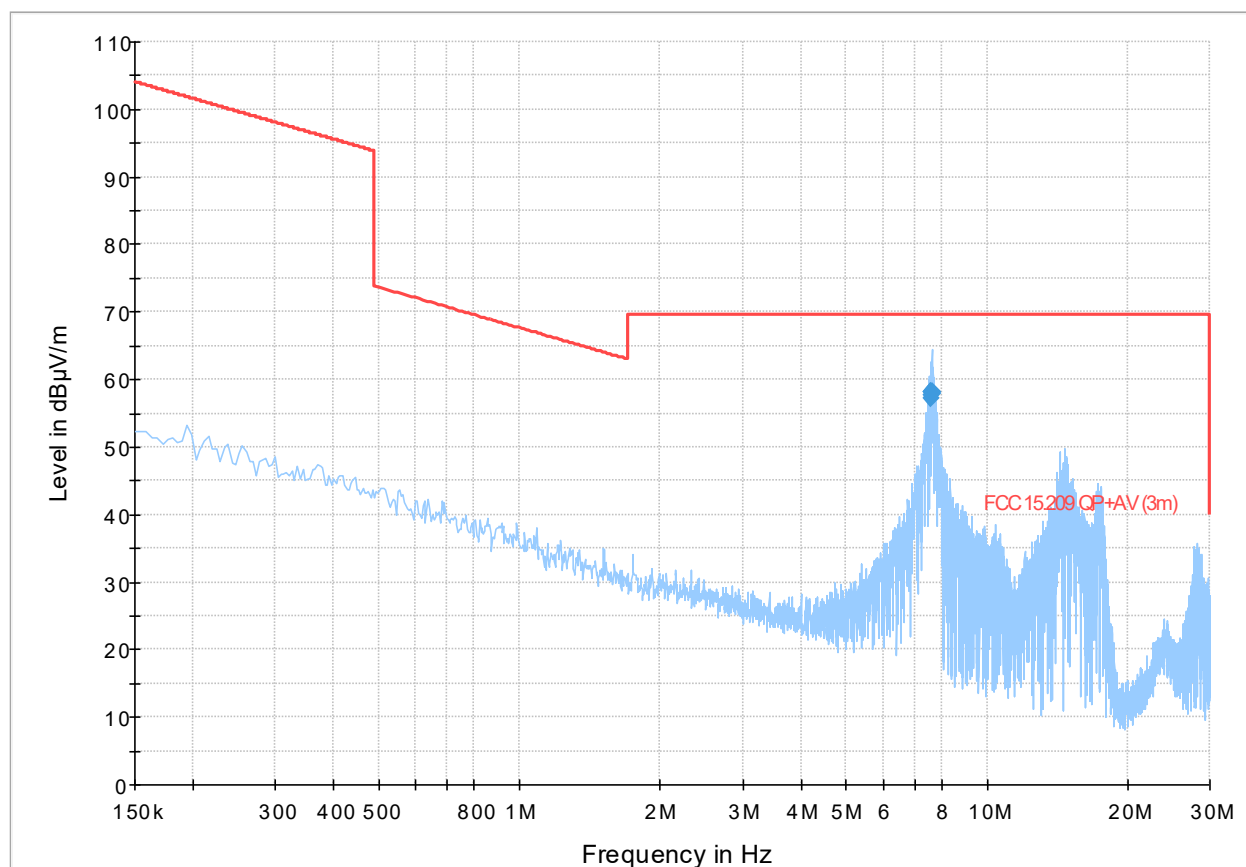


Figure 8.1-3: Radiated emissions spectral plot (150 kHz - 30 MHz): Baseline of iPhone 17 Pro (Horizontal)

Table 8.1-4: Radiated emissions results): Baseline of iPhone 17 Pro (Horizontal)

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7.560926	57.26	69.50	12.24	15000.0	9.000	155.0	H	5.0	9.7
7.571890	57.64	69.50	11.86	15000.0	9.000	155.0	H	251.0	9.7
7.604824	58.06	69.50	11.44	15000.0	9.000	155.0	H	107.0	9.7
7.607007	58.21	69.50	11.29	15000.0	9.000	155.0	H	10.0	9.7
7.617993	58.24	69.50	11.26	15000.0	9.000	155.0	H	252.0	9.7
7.624566	57.95	69.50	11.55	15000.0	9.000	155.0	H	-10.0	9.7

Notes:

¹ Field strength (dBμV/m) = receiver/spectrum analyzer value (dBμV) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

Full Spectrum

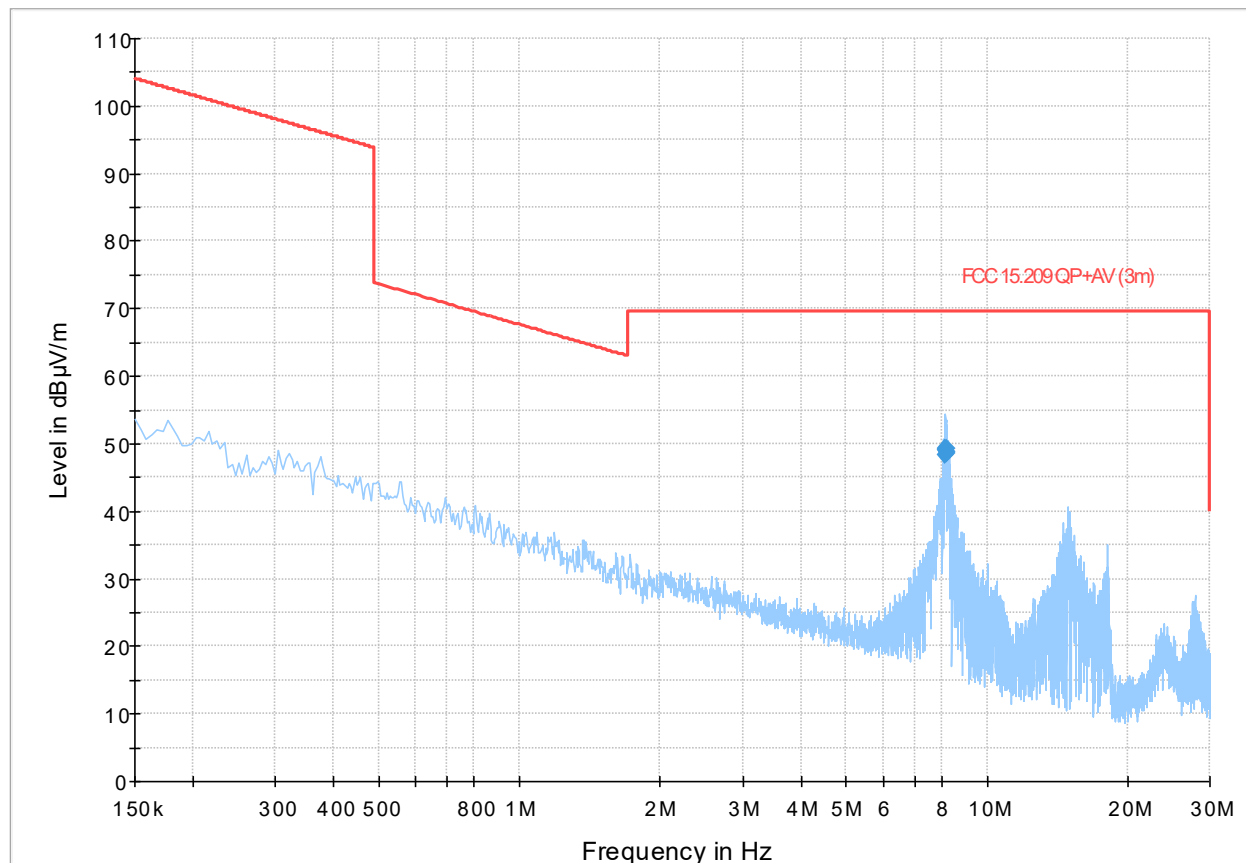


Figure 8.1-4: Radiated emissions spectral plot (150 kHz - 30 MHz): iPhone 17 Pro with EUT (Horizontal)

Table 8.1-5: Radiated emissions results: iPhone 17 Pro with EUT (Horizontal)

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
8.131588	48.26	69.50	21.24	15000.0	9.000	155.0	H	130.0	9.6
8.144757	49.25	69.50	20.25	15000.0	9.000	155.0	H	307.0	9.6
8.162316	49.07	69.50	20.43	15000.0	9.000	155.0	H	244.0	9.6
8.173279	49.21	69.50	20.29	15000.0	9.000	155.0	H	167.0	9.6
8.199618	48.71	69.50	20.79	15000.0	9.000	155.0	H	218.0	9.6
8.206213	48.53	69.50	20.97	15000.0	9.000	155.0	H	247.0	9.6

Notes: ¹ Field strength (dBμV/m) = receiver/spectrum analyzer value (dBμV) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

Full Spectrum

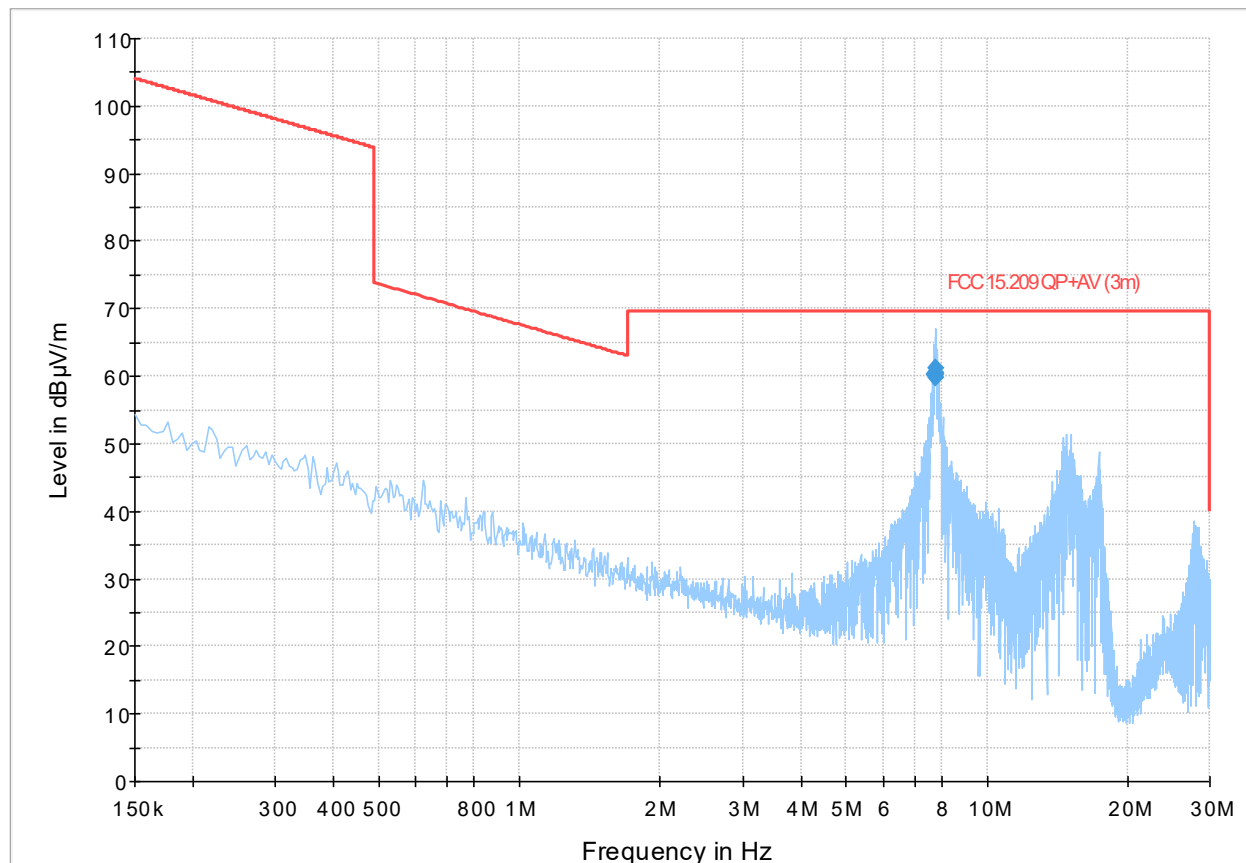


Figure 8.1-5: Radiated emissions spectral plot (150 kHz - 30 MHz): Baseline of iPhone 17 Pro (Vertical)

Table 8.1-6: Radiated emissions results: Baseline of iPhone 17 Pro (Vertical)

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7.727713	60.16	69.50	9.34	15000.0	9.000	155.0	H	109.0	9.7
7.732125	60.29	69.50	9.21	15000.0	9.000	155.0	H	27.0	9.7
7.745294	61.17	69.50	8.33	15000.0	9.000	155.0	H	193.0	9.7
7.778206	60.50	69.50	9.00	15000.0	9.000	155.0	H	173.0	9.7
7.784802	60.25	69.50	9.25	15000.0	9.000	155.0	H	331.0	9.7
7.791397	59.87	69.50	9.63	15000.0	9.000	155.0	H	10.0	9.7

Notes: ¹ Field strength (dBµV/m) = receiver/spectrum analyzer value (dBµV) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

Full Spectrum

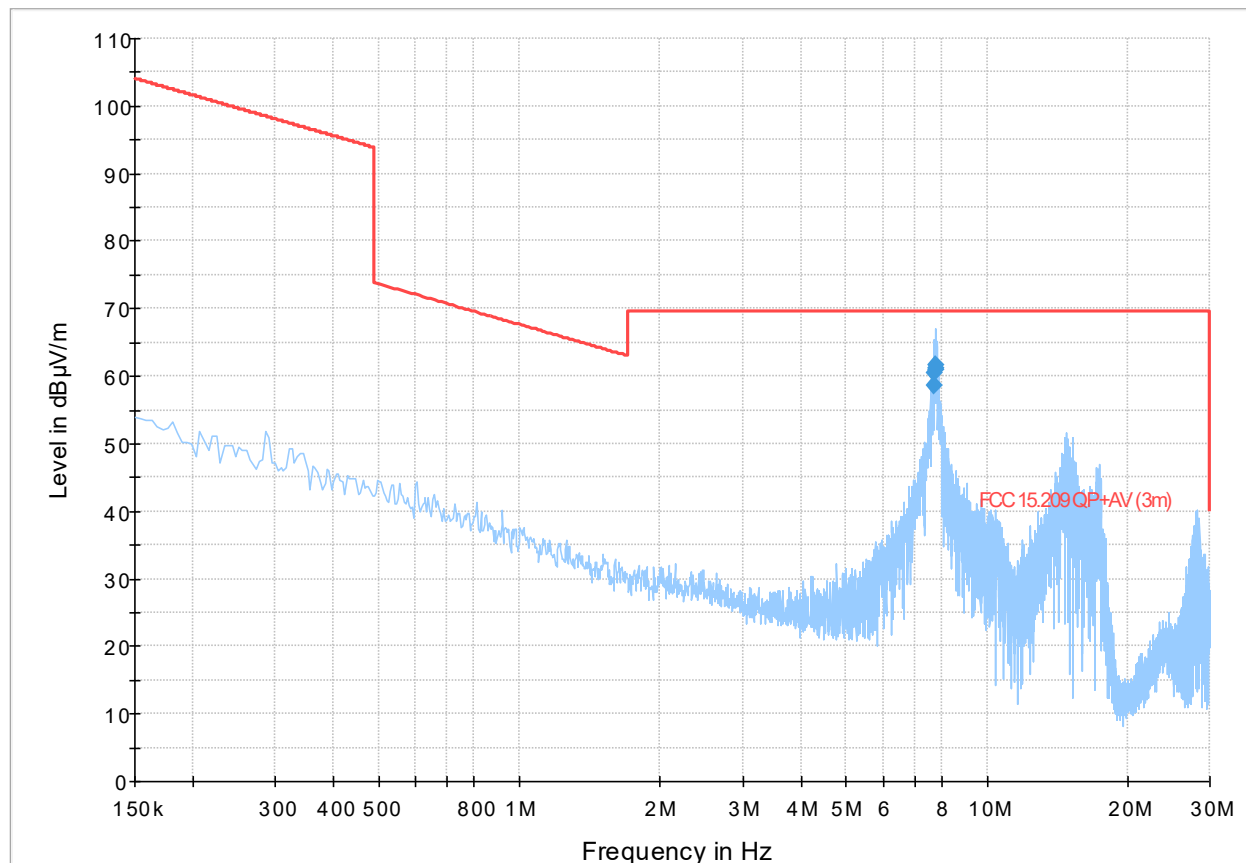


Figure 8.1-6: Radiated emissions spectral plot (150 kHz - 30 MHz): iPhone 17 Pro with EUT (Vertical)

Table 8.1-7: Radiated emissions results: iPhone 17 Pro with EUT (Vertical)

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7.703581	58.65	69.50	10.85	15000.0	9.000	155.0	H	199.0	9.7
7.732103	60.57	69.50	8.93	15000.0	9.000	155.0	H	112.0	9.7
7.740904	61.16	69.50	8.34	15000.0	9.000	155.0	H	296.0	9.7
7.758463	61.55	69.50	7.95	15000.0	9.000	155.0	H	4.0	9.7
7.769426	60.90	69.50	8.60	15000.0	9.000	155.0	H	56.0	9.7

Notes: ¹ Field strength (dBμV/m) = receiver/spectrum analyzer value (dBμV) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

Full Spectrum

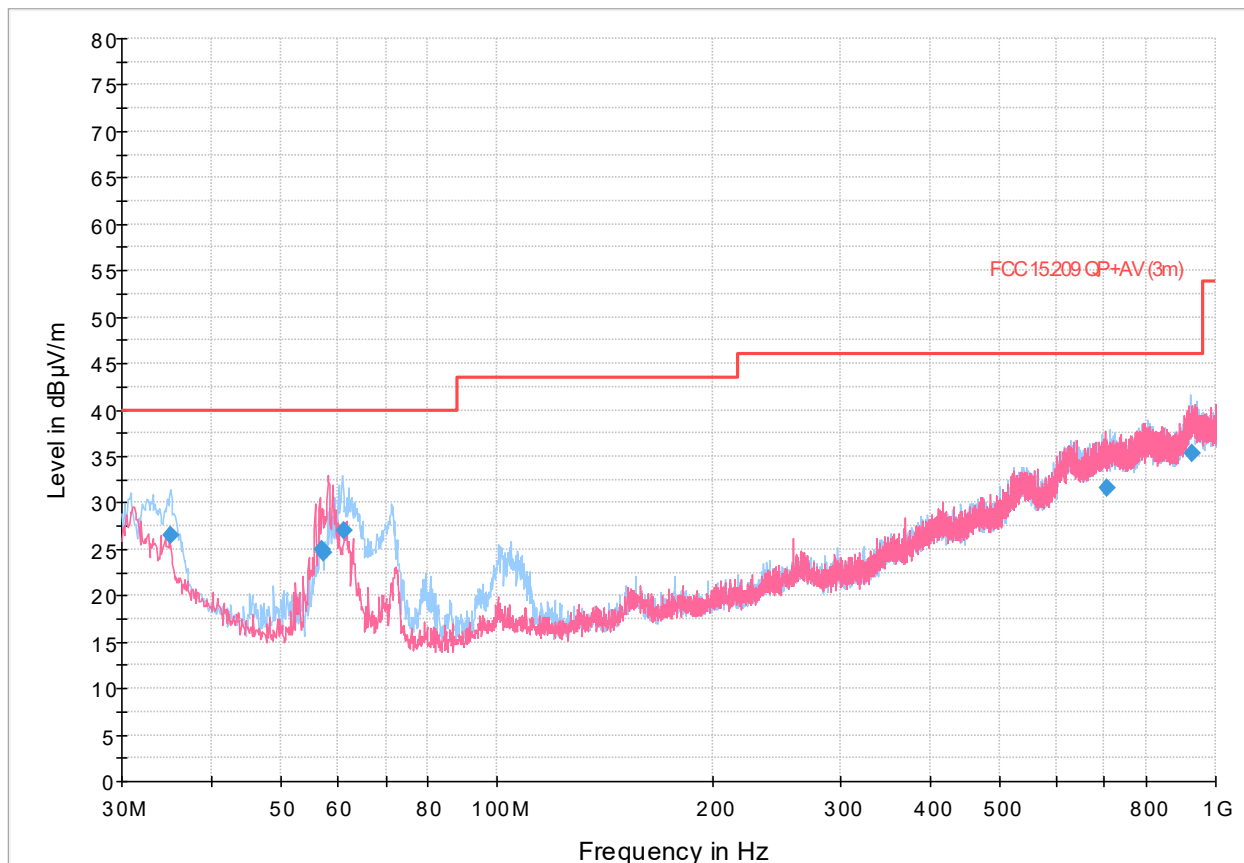


Figure 8.1-7: Radiated emissions spectral plot (30 MHz - 1 GHz): Baseline of iPhone 17 Pro

Table 8.1-8: Radiated emissions results: Baseline of iPhone 17 Pro

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
35.156838	26.45	40.00	13.55	5000.0	120.000	302.0	H	22.0	20.0
56.989781	25.00	40.00	15.00	5000.0	120.000	111.0	V	145.0	13.5
57.165150	24.70	40.00	15.30	5000.0	120.000	108.0	V	161.0	13.5
61.013913	26.94	40.00	13.06	5000.0	120.000	224.0	H	0.0	13.7
704.140750	31.62	46.00	14.38	5000.0	120.000	206.0	V	273.0	31.9
927.879750	35.27	46.00	10.73	5000.0	120.000	269.0	H	330.0	35.4

Notes:

¹ Field strength (dBμV/m) = receiver/spectrum analyzer value (dBμV) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

Full Spectrum

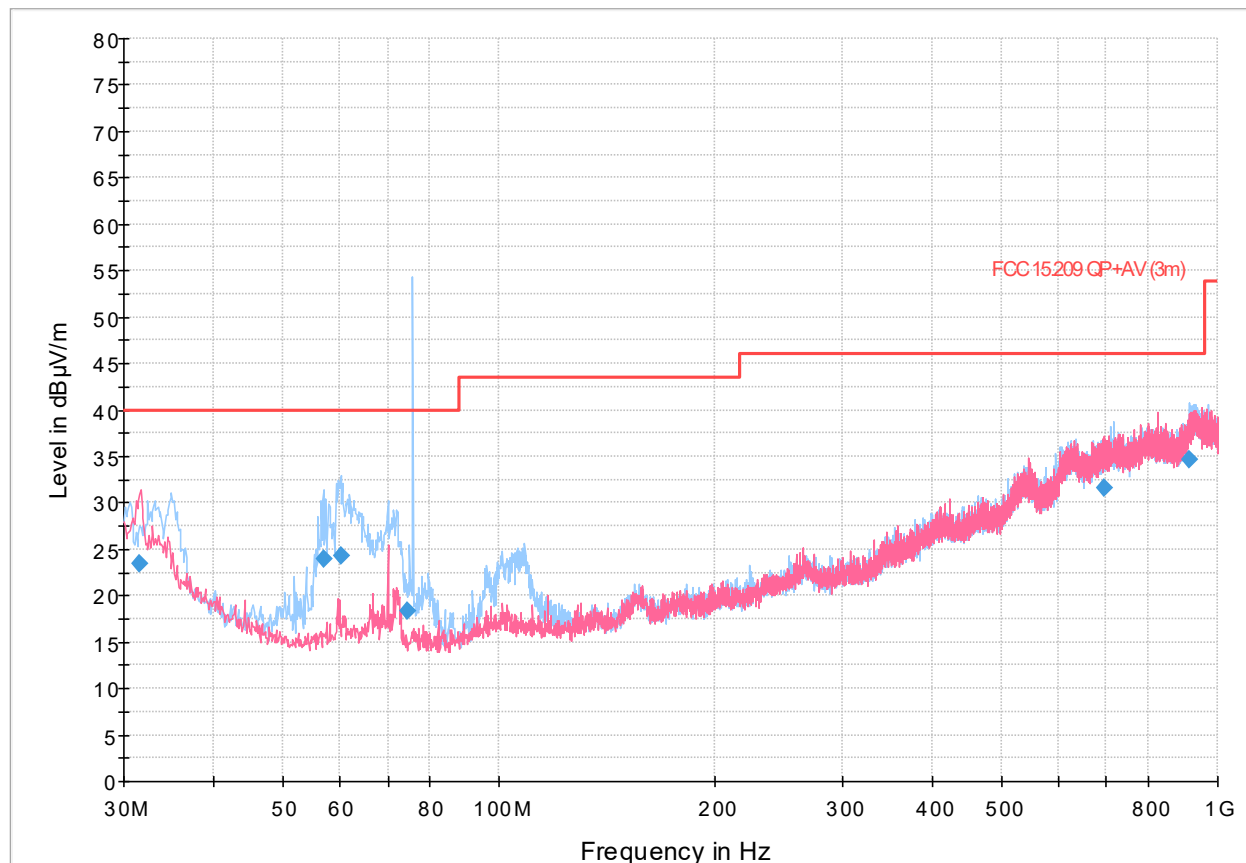


Figure 8.1-8: Radiated emissions spectral plot (30 MHz - 1 GHz): iPhone 17 Pro with EUT

Table 8.1-9: Radiated emissions results: iPhone 17 Pro with EUT

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
31.580213	23.44	40.00	16.56	5000.0	120.000	100.0	V	248.0	22.1
57.073113	23.95	40.00	16.05	5000.0	120.000	339.0	H	297.0	13.5
60.250694	24.35	40.00	15.65	5000.0	120.000	228.0	H	146.0	13.7
74.537894	18.38	40.00	21.62	5000.0	120.000	375.0	H	39.0	14.1
695.608250	31.54	46.00	14.46	5000.0	120.000	357.0	V	294.0	31.8
914.786250	34.57	46.00	11.43	5000.0	120.000	200.0	H	328.0	34.7

Notes:

¹ Field strength (dBμV/m) = receiver/spectrum analyzer value (dBμV) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

Full Spectrum

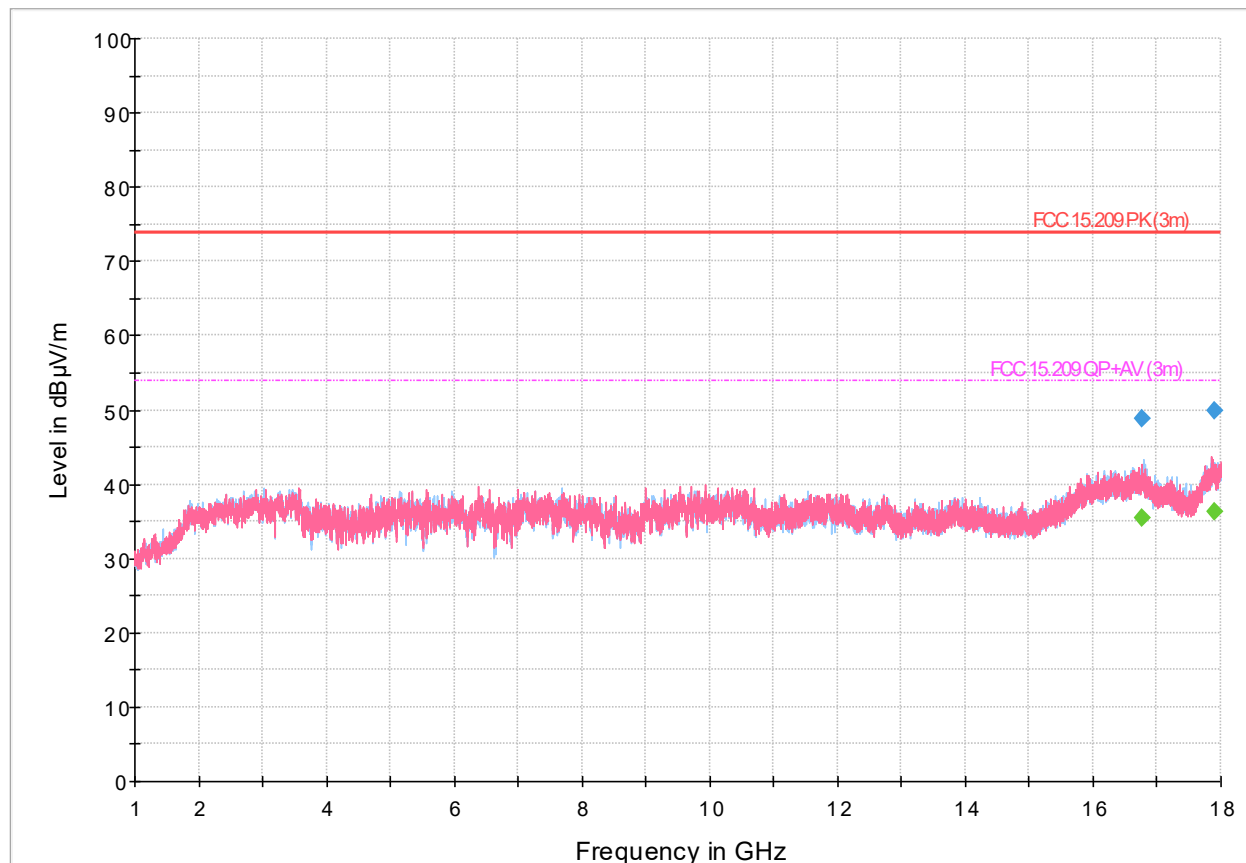


Figure 8.1-9: Radiated emissions spectral plot (1 GHz - 18 GHz): Baseline of iPhone 17 Pro

Table 8.1-10: Radiated emissions results: Baseline of iPhone 17 Pro

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
16759.454778	---	35.46	53.90	18.44	5000.0	1000.000	132.0	H	50.0	18.1
16759.454778	48.76	---	73.90	25.14	5000.0	1000.000	132.0	H	50.0	18.1
17901.866000	---	36.29	53.90	17.61	5000.0	1000.000	147.0	V	293.0	18.9
17901.866000	49.84	---	73.90	24.06	5000.0	1000.000	147.0	V	293.0	18.9

Notes: ¹ Field strength (dBµV/m) = receiver/spectrum analyzer value (dBµV) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

Full Spectrum

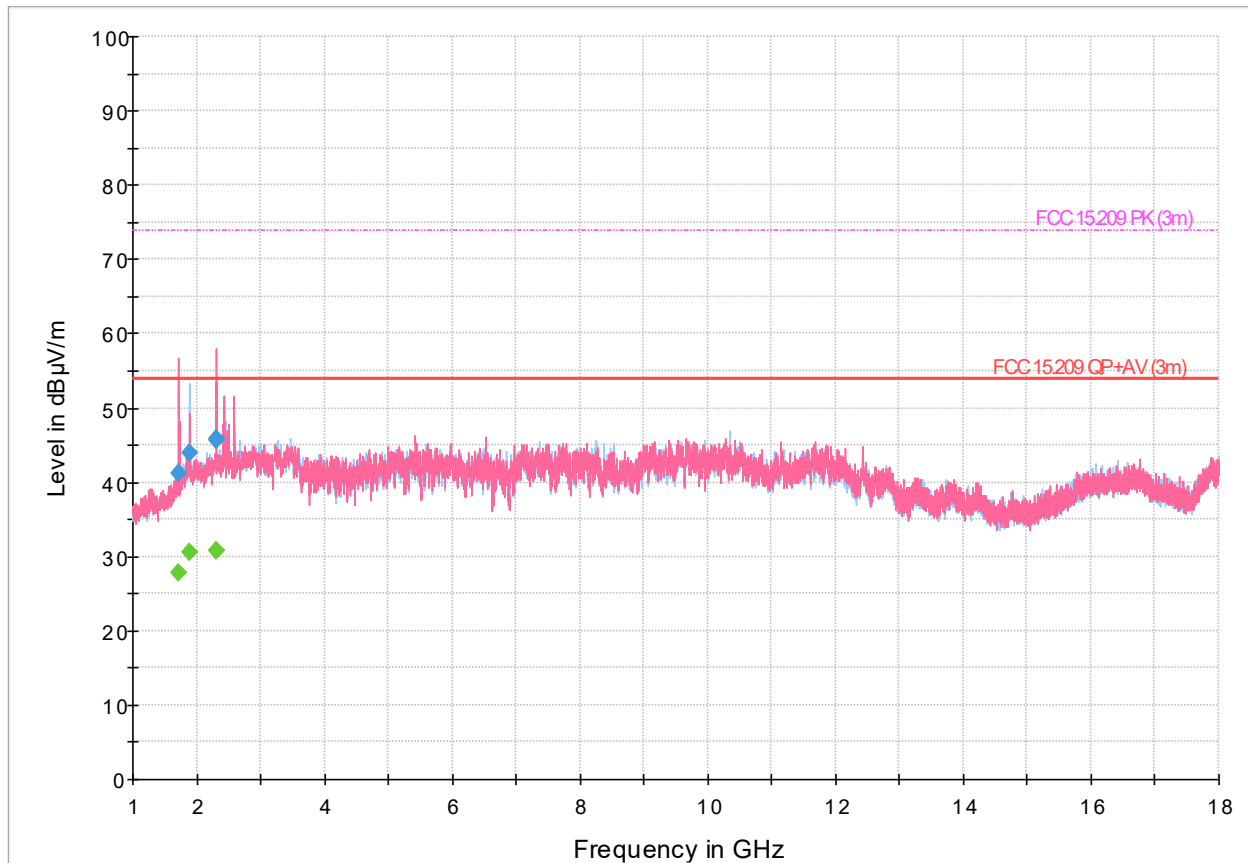


Figure 8.1-10: Radiated emissions spectral plot (1 GHz - 18 GHz): iPhone 17 Pro with EUT

Table 8.1-11: Radiated emissions results: iPhone 17 Pro with EUT

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1711.130611	41.11	---	53.90	12.79	5000.0	1000.000	113.0	V	262.0	-9.7
1711.130611	---	27.82	73.90	46.08	5000.0	1000.000	113.0	V	262.0	-9.7
1892.686833	43.92	---	53.90	9.98	5000.0	1000.000	356.0	H	70.0	-6.8
1892.686833	---	30.54	73.90	43.36	5000.0	1000.000	356.0	H	70.0	-6.8
2308.292333	---	30.80	73.90	43.10	5000.0	1000.000	294.0	V	187.0	-5.7
2308.292333	45.71	---	53.90	8.19	5000.0	1000.000	294.0	V	187.0	-5.7
2308.749611	---	30.76	73.90	43.14	5000.0	1000.000	107.0	V	10.0	-5.7
2308.749611	45.95	---	53.90	7.95	5000.0	1000.000	107.0	V	10.0	-5.7

Notes: ¹ Field strength (dBµV/m) = receiver/spectrum analyzer value (dBµV) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

Full Spectrum

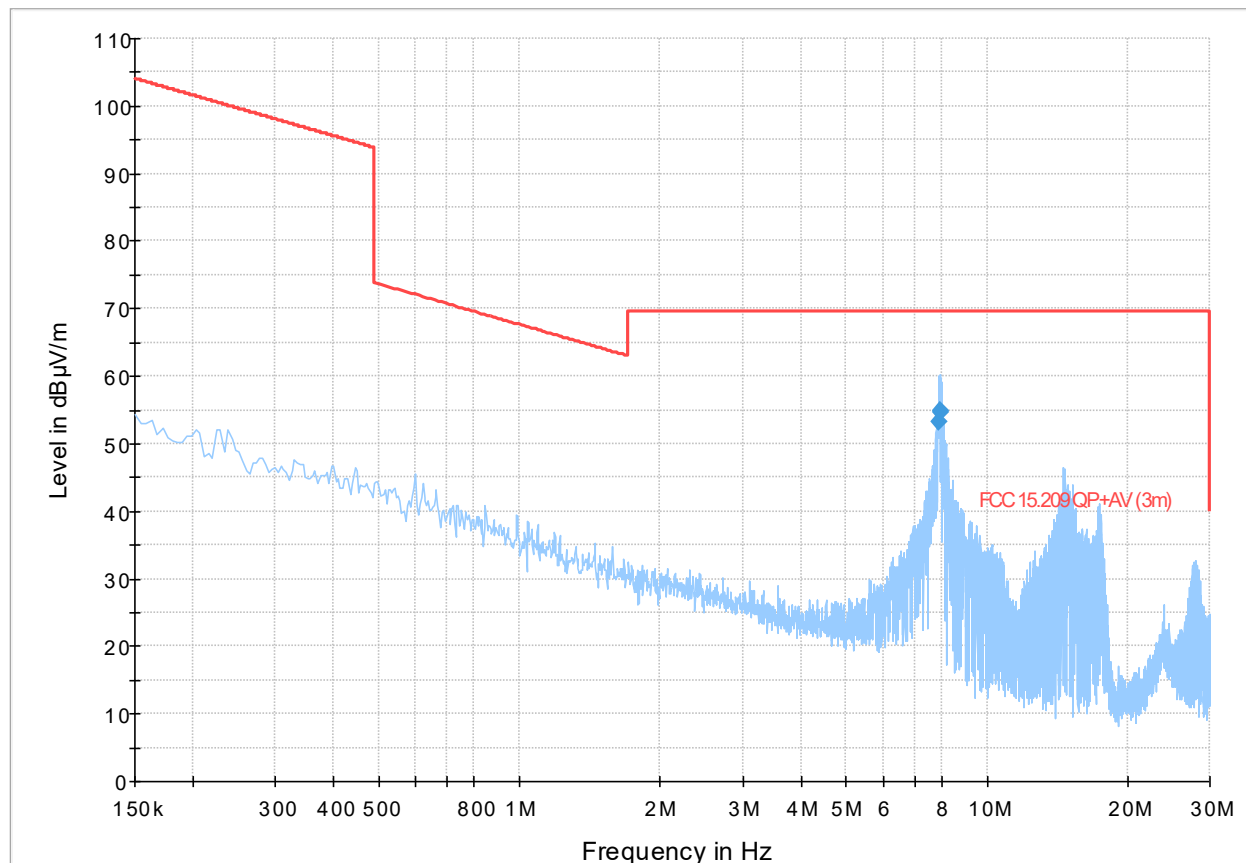


Figure 8.1-11: Radiated emissions spectral plot (150 kHz - 30 MHz): Baseline of Samsung SM-S942U1 (Horizontal)

Table 8.1-12: Radiated emissions results: Baseline of Samsung SM-S942U1 (Horizontal)

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7.892338	53.29	69.50	16.21	15000.0	9.000	155.0	H	22.0	9.7
7.949404	54.97	69.50	14.53	15000.0	9.000	155.0	H	210.0	9.7
7.951610	54.74	69.50	14.76	15000.0	9.000	155.0	H	49.0	9.7

Notes:

¹ Field strength (dBμV/m) = receiver/spectrum analyzer value (dBμV) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

Full Spectrum

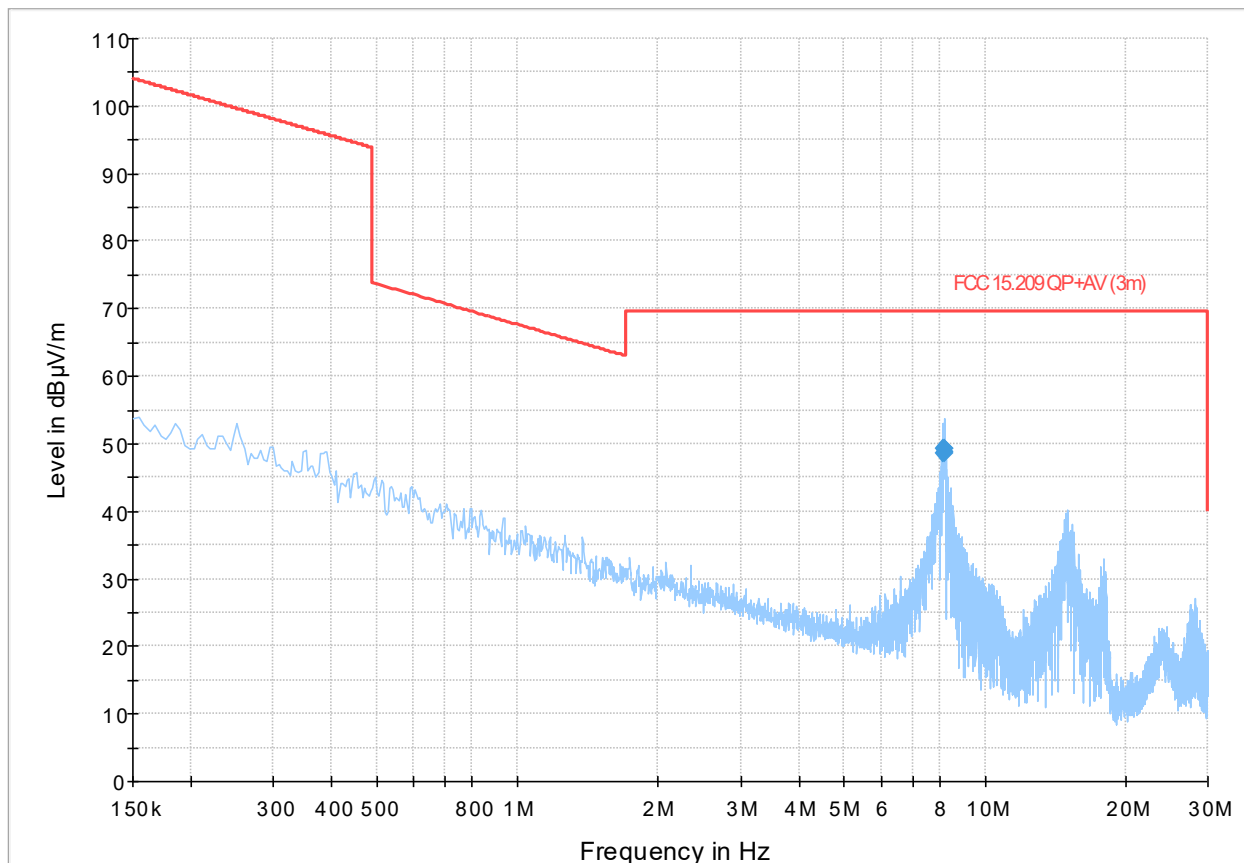


Figure 8.1-12: Radiated emissions spectral plot (150 kHz - 30 MHz): Samsung SM-S942U1 with EUT (Horizontal)

Table 8.1-13: Radiated emissions results: Samsung SM-S942U1 with EUT (Horizontal)

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
8.129382	48.54	69.50	20.96	15000.0	9.000	155.0	H	282.0	9.7
8.149147	49.25	69.50	20.25	15000.0	9.000	155.0	H	223.0	9.6
8.173279	49.20	69.50	20.30	15000.0	9.000	155.0	H	277.0	9.6
8.179875	49.32	69.50	20.18	15000.0	9.000	155.0	H	27.0	9.6
8.197434	48.75	69.50	20.75	15000.0	9.000	155.0	H	180.0	9.6
8.204029	48.50	69.50	21.00	15000.0	9.000	155.0	H	130.0	9.6

Notes: ¹ Field strength (dBµV/m) = receiver/spectrum analyzer value (dBµV) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

Full Spectrum

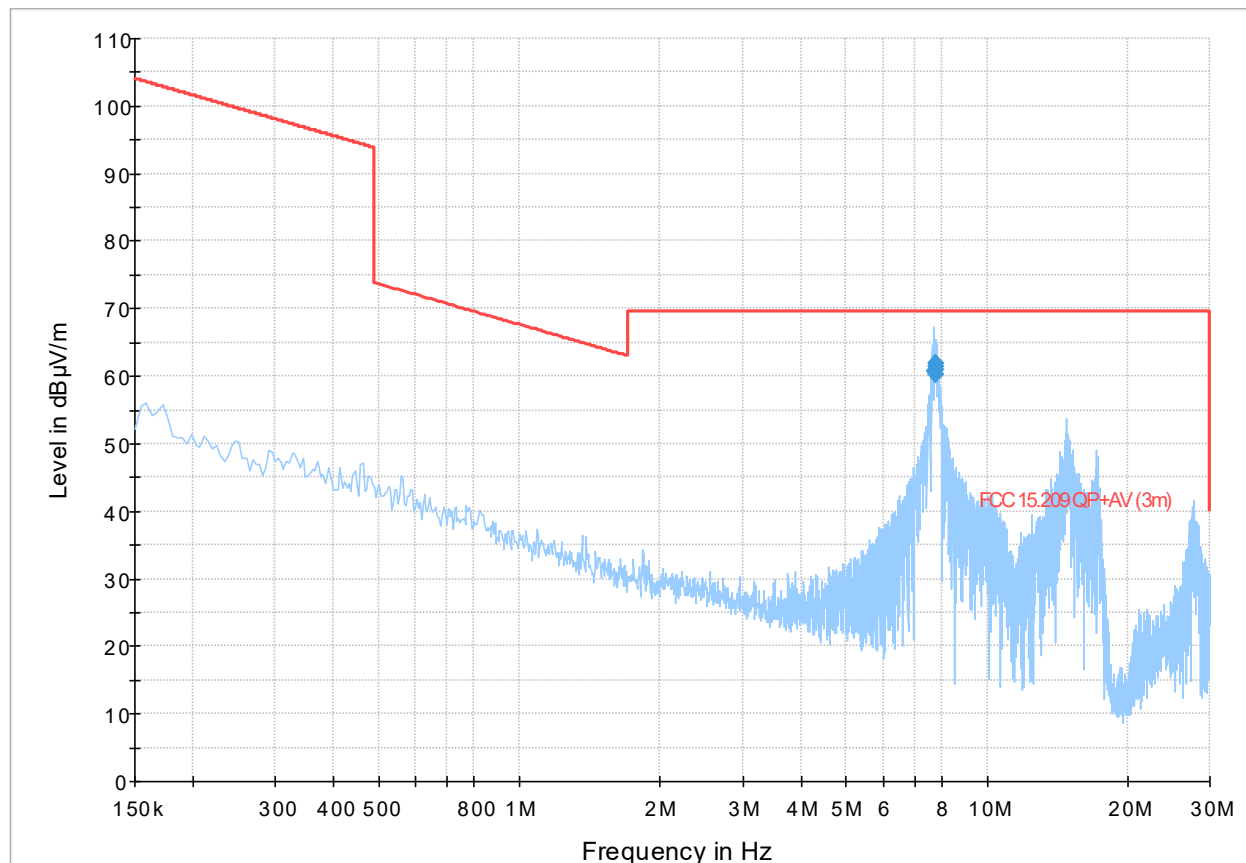


Figure 8.1-13: Radiated emissions spectral plot (150 kHz - 30 MHz): baseline of Samsung SM-S942U1 (Vertical)

Table 8.1-14: Radiated emissions results: baseline of Samsung SM-S942U1 (Vertical)

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7.707993	60.77	69.50	8.73	15000.0	9.000	155.0	H	196.0	9.7
7.734309	61.39	69.50	8.11	15000.0	9.000	155.0	H	209.0	9.7
7.754074	61.91	69.50	7.59	15000.0	9.000	155.0	H	24.0	9.7
7.767243	60.97	69.50	8.53	15000.0	9.000	155.0	H	310.0	9.7
7.782596	60.20	69.50	9.30	15000.0	9.000	155.0	H	209.0	9.7

Notes: ¹ Field strength (dBµV/m) = receiver/spectrum analyzer value (dBµV) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

Full Spectrum

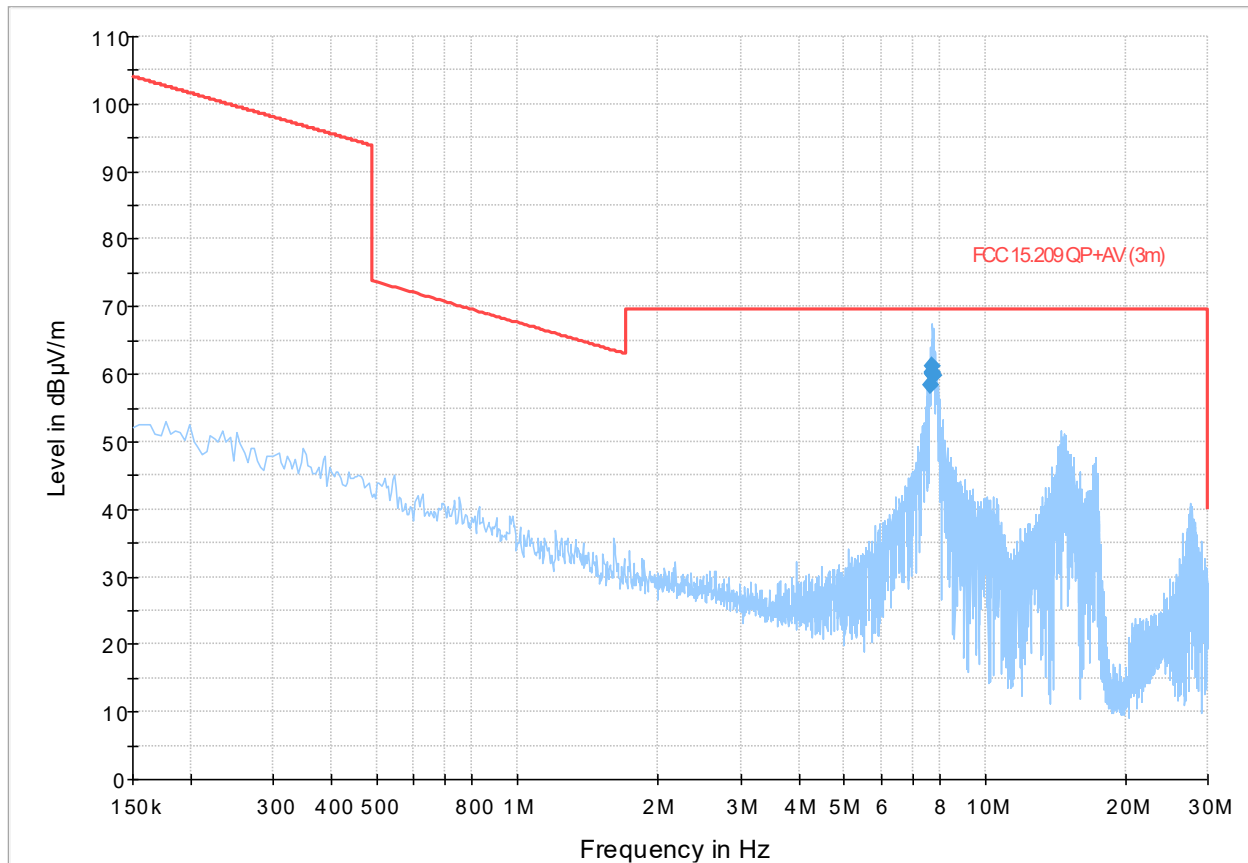


Figure 8.1-14: Radiated emissions spectral plot (150 kHz - 30 MHz): Samsung SM-S942U1 with EUT (Vertical)

Table 8.1-15: Radiated emissions results: Samsung SM-S942U1 with EUT (Vertical)

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7.664096	58.38	69.50	11.12	15000.0	9.000	155.0	H	189.0	9.7
7.686022	60.18	69.50	9.32	15000.0	9.000	155.0	H	122.0	9.7
7.692618	60.12	69.50	9.38	15000.0	9.000	155.0	H	16.0	9.7
7.701397	60.20	69.50	9.30	15000.0	9.000	155.0	H	66.0	9.7
7.732125	61.31	69.50	8.19	15000.0	9.000	155.0	H	227.0	9.7
7.786985	59.90	69.50	9.60	15000.0	9.000	155.0	H	238.0	9.7

Notes: ¹ Field strength (dBµV/m) = receiver/spectrum analyzer value (dBµV) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

Full Spectrum

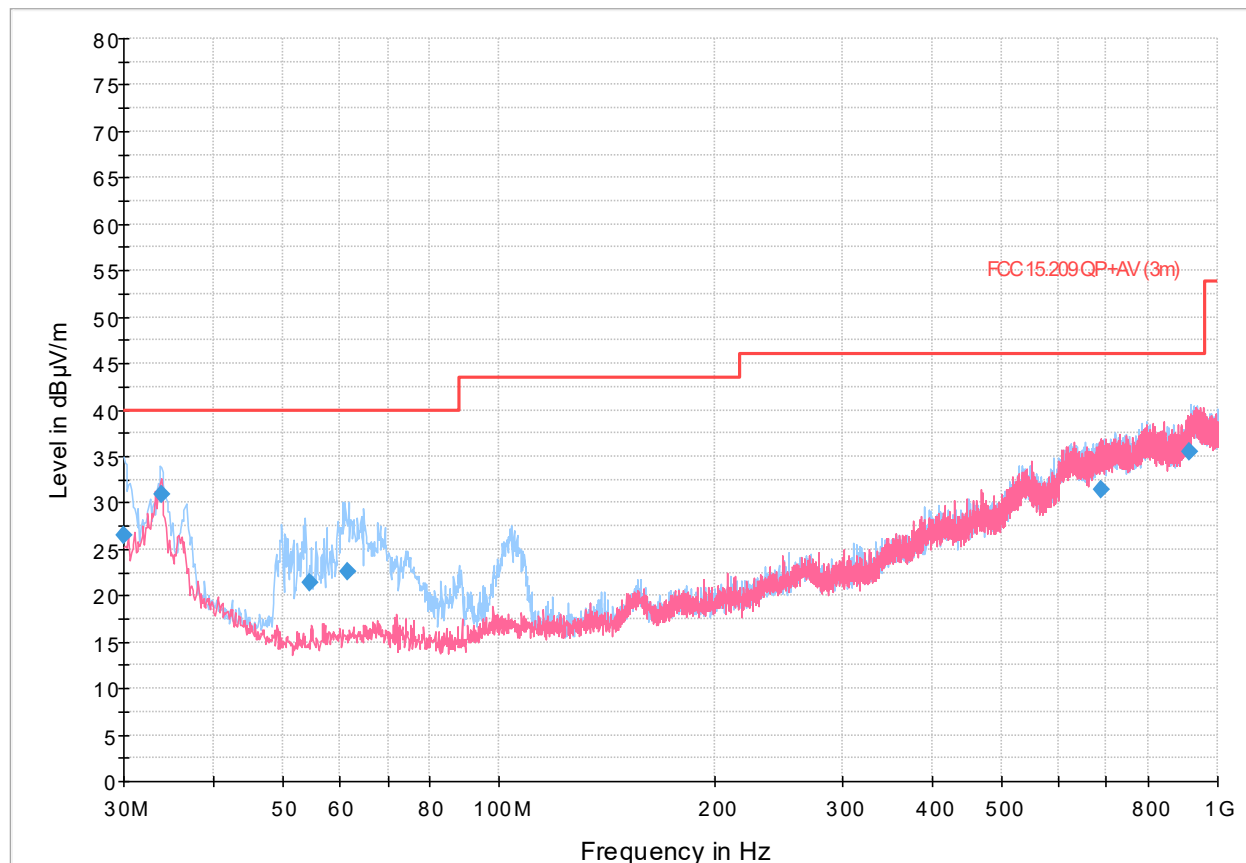


Figure 8.1-15: Radiated emissions spectral plot (30 MHz - 1 GHz): baseline of Samsung SM-S942U1

Table 8.1-16: Radiated emissions results: baseline of Samsung SM-S942U1

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.040000	26.46	40.00	13.54	5000.0	120.000	119.0	H	338.0	22.8
33.869156	30.92	40.00	9.08	5000.0	120.000	393.0	H	0.0	20.7
54.491975	21.47	40.00	18.53	5000.0	120.000	386.0	H	290.0	13.5
61.379263	22.57	40.00	17.43	5000.0	120.000	108.0	H	122.0	13.8
687.056750	31.42	46.00	14.58	5000.0	120.000	402.0	V	194.0	31.6
915.040750	35.42	46.00	10.58	5000.0	120.000	335.0	H	127.0	34.7

Notes:

¹ Field strength (dBμV/m) = receiver/spectrum analyzer value (dBμV) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

Full Spectrum

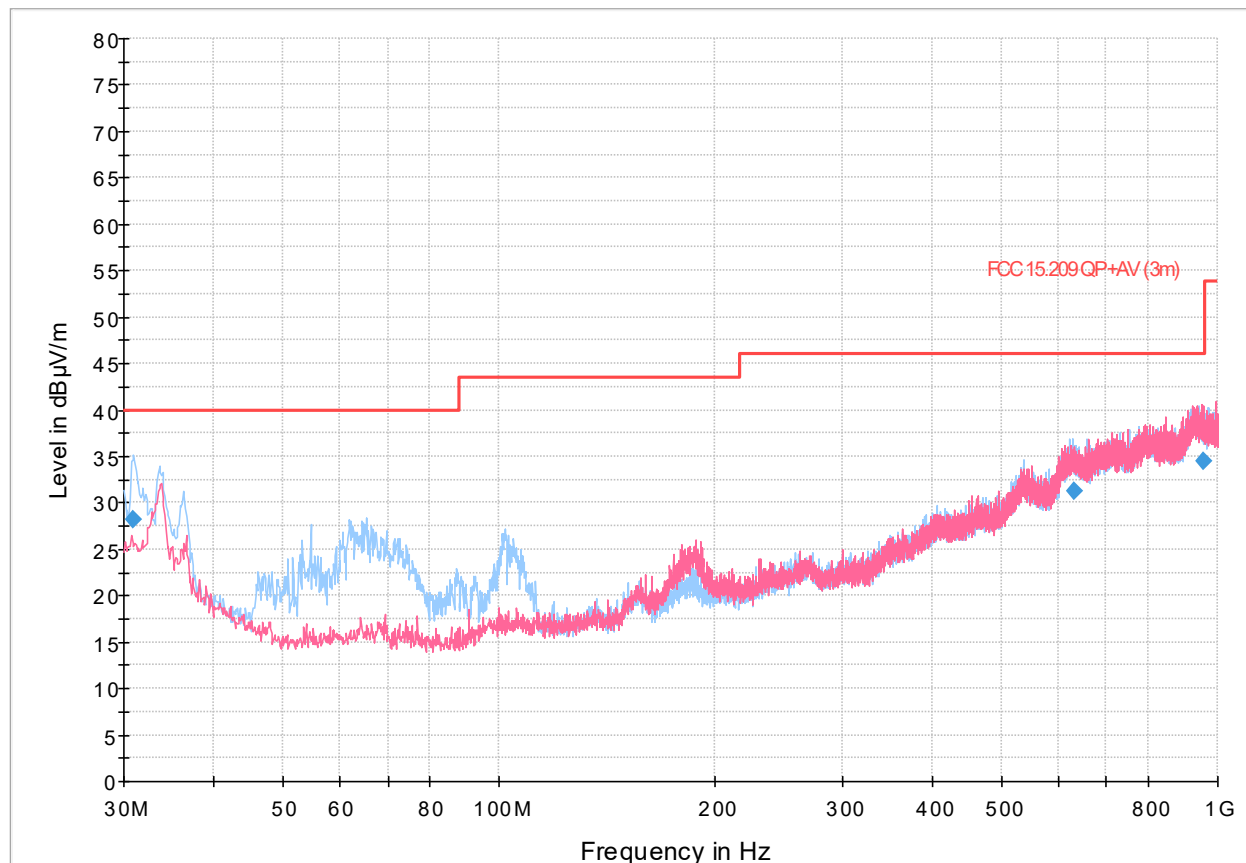


Figure 8.1-16: Radiated emissions spectral plot (30 MHz - 1 GHz): Samsung SM-S942U1 with EUT

Table 8.1-17: Radiated emissions results: Samsung SM-S942U1 with EUT

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.994200	28.20	40.00	11.80	5000.0	120.000	184.0	H	16.0	22.4
630.218250	31.26	46.00	14.74	5000.0	120.000	188.0	H	24.0	31.4
954.422750	34.52	46.00	11.48	5000.0	120.000	215.0	V	101.0	34.6

Notes:

¹ Field strength (dBμV/m) = receiver/spectrum analyzer value (dBμV) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

Full Spectrum

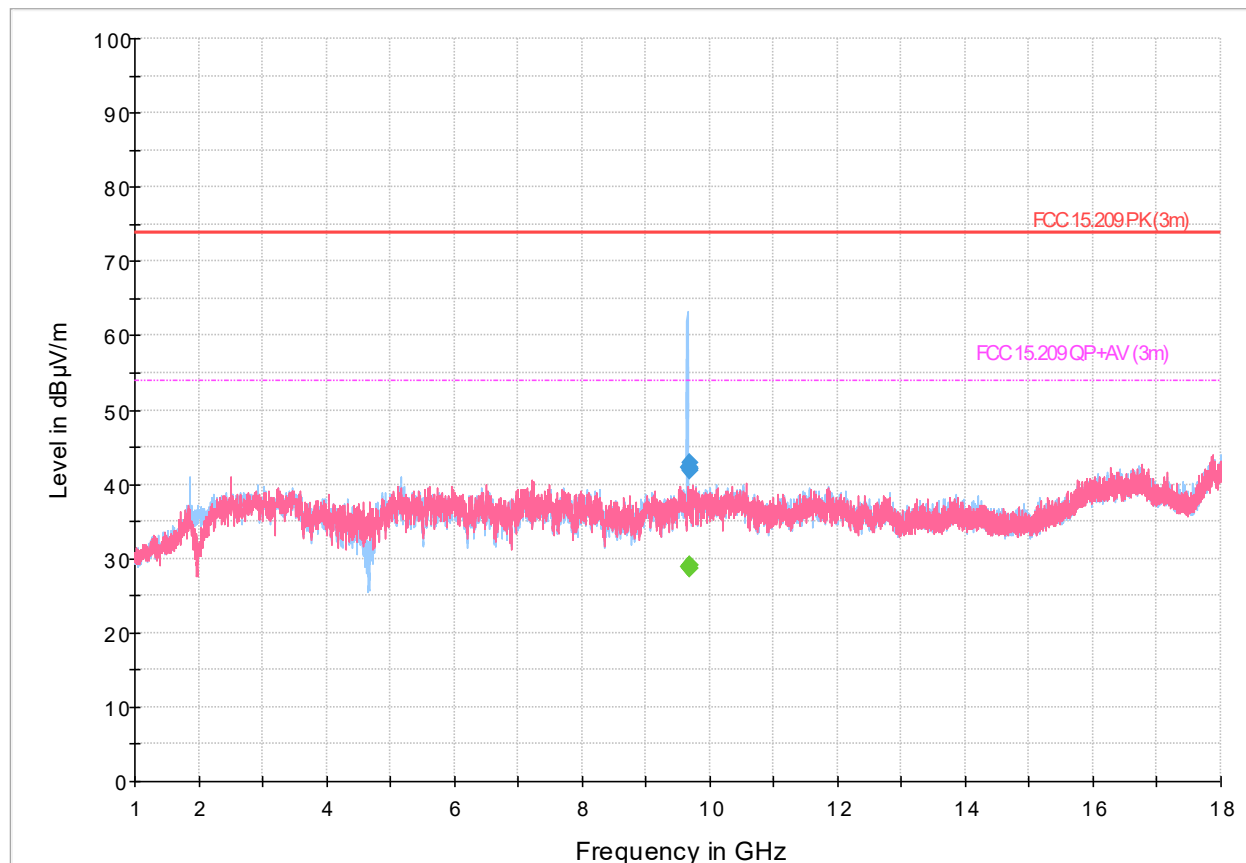


Figure 8.1-17: Radiated emissions spectral plot (1 GHz - 18 GHz): baseline of Samsung SM-S942U1

Table 8.1-18: Radiated emissions results: baseline of Samsung SM-S942U1

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
9663.845500	42.17	---	73.90	31.73	5000.0	1000.000	222.0	H	238.0	7.1
9663.845500	---	28.81	53.90	25.09	5000.0	1000.000	222.0	H	238.0	7.1
9677.672722	42.11	---	73.90	31.79	5000.0	1000.000	139.0	H	248.0	7.1
9677.672722	---	28.65	53.90	25.25	5000.0	1000.000	139.0	H	248.0	7.1
9687.237611	---	29.09	53.90	24.81	5000.0	1000.000	124.0	H	358.0	7.2
9687.237611	42.88	---	73.90	31.02	5000.0	1000.000	124.0	H	358.0	7.2
9689.589167	---	29.03	53.90	24.87	5000.0	1000.000	187.0	H	41.0	7.2
9689.589167	42.24	---	73.90	31.66	5000.0	1000.000	187.0	H	41.0	7.2
9694.998389	41.87	---	73.90	32.03	5000.0	1000.000	337.0	H	249.0	7.2
9694.998389	---	28.76	53.90	25.14	5000.0	1000.000	337.0	H	249.0	7.2
9697.198278	41.97	---	73.90	31.93	5000.0	1000.000	125.0	H	76.0	7.2
9697.198278	---	29.05	53.90	24.85	5000.0	1000.000	125.0	H	76.0	7.2

Notes: ¹ Field strength (dBµV/m) = receiver/spectrum analyzer value (dBµV) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

Full Spectrum

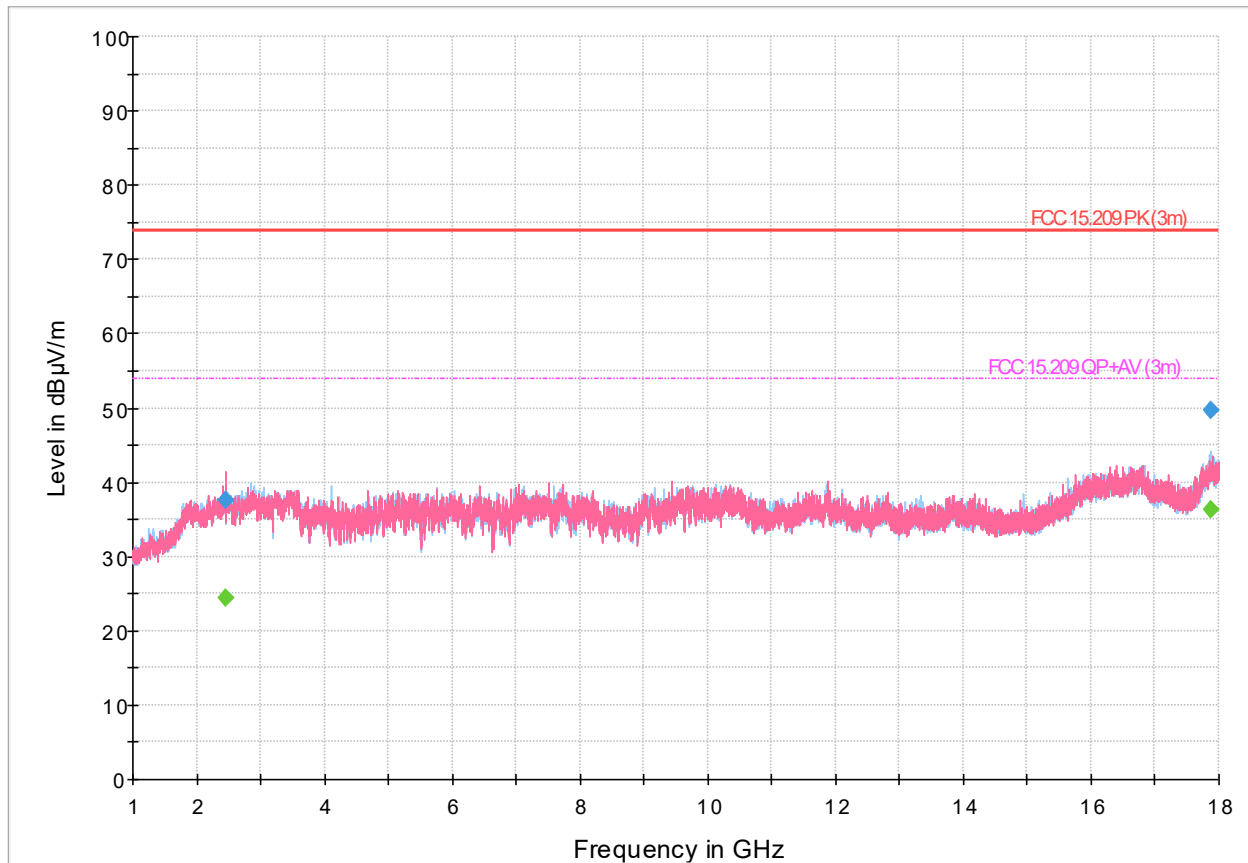


Figure 8.1-18: Radiated emissions spectral plot (1 GHz - 18 GHz): Samsung SM-S942U1 with EUT

Table 8.1-19: Radiated emissions results: Samsung SM-S942U1 with EUT

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2458.700056	37.64	---	73.90	36.26	5000.0	1000.000	172.0	V	236.0	-5.2
2458.700056	---	24.42	53.90	29.48	5000.0	1000.000	172.0	V	236.0	-5.2
17872.065611	49.61	---	73.90	24.29	5000.0	1000.000	410.0	H	76.0	18.8
17872.065611	---	36.37	53.90	17.53	5000.0	1000.000	410.0	H	76.0	18.8

Notes: ¹ Field strength (dBμV/m) = receiver/spectrum analyzer value (dBμV) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

8.1.6 Test data – RSS-216

Full Spectrum

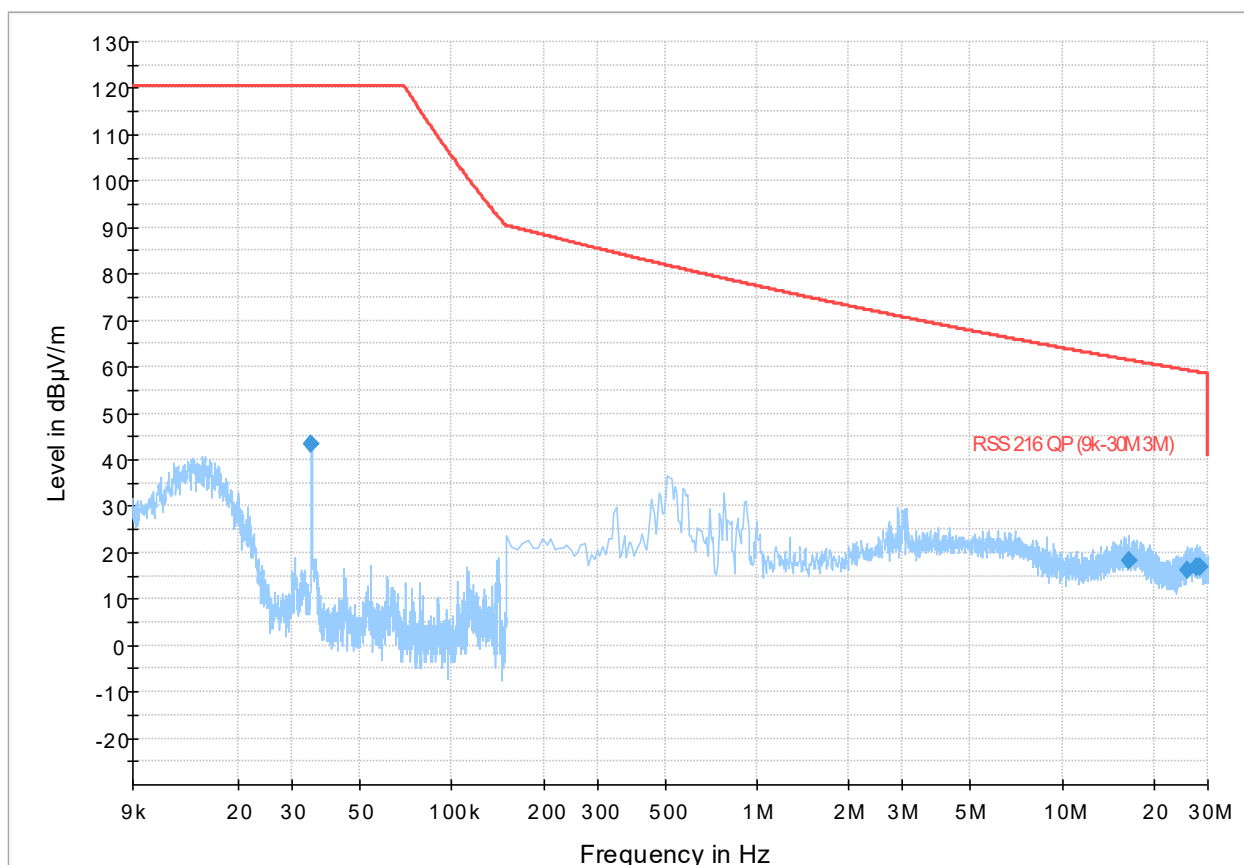


Figure 8.1-19: Radiated emissions spectral plot (9k to 30MHz) iPhone with EUT, 0 degree

Table 8.1-20: Radiated emissions results

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.034702	43.41	120.50	77.09	5000.0	0.200	155.0	H	52.0	11.4
16.598420	18.34	61.42	43.09	5000.0	9.000	155.0	H	124.0	8.5
25.785102	16.11	59.23	43.13	5000.0	9.000	155.0	H	264.0	6.8
27.573398	16.95	58.91	41.96	5000.0	9.000	155.0	H	236.0	6.6
27.619943	16.99	58.90	41.91	5000.0	9.000	155.0	H	113.0	6.6
28.302386	16.74	58.78	42.04	5000.0	9.000	155.0	H	42.0	6.5

Notes:

¹ Field strength (dBμV/m) = receiver/spectrum analyzer value (dBμV) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

Full Spectrum

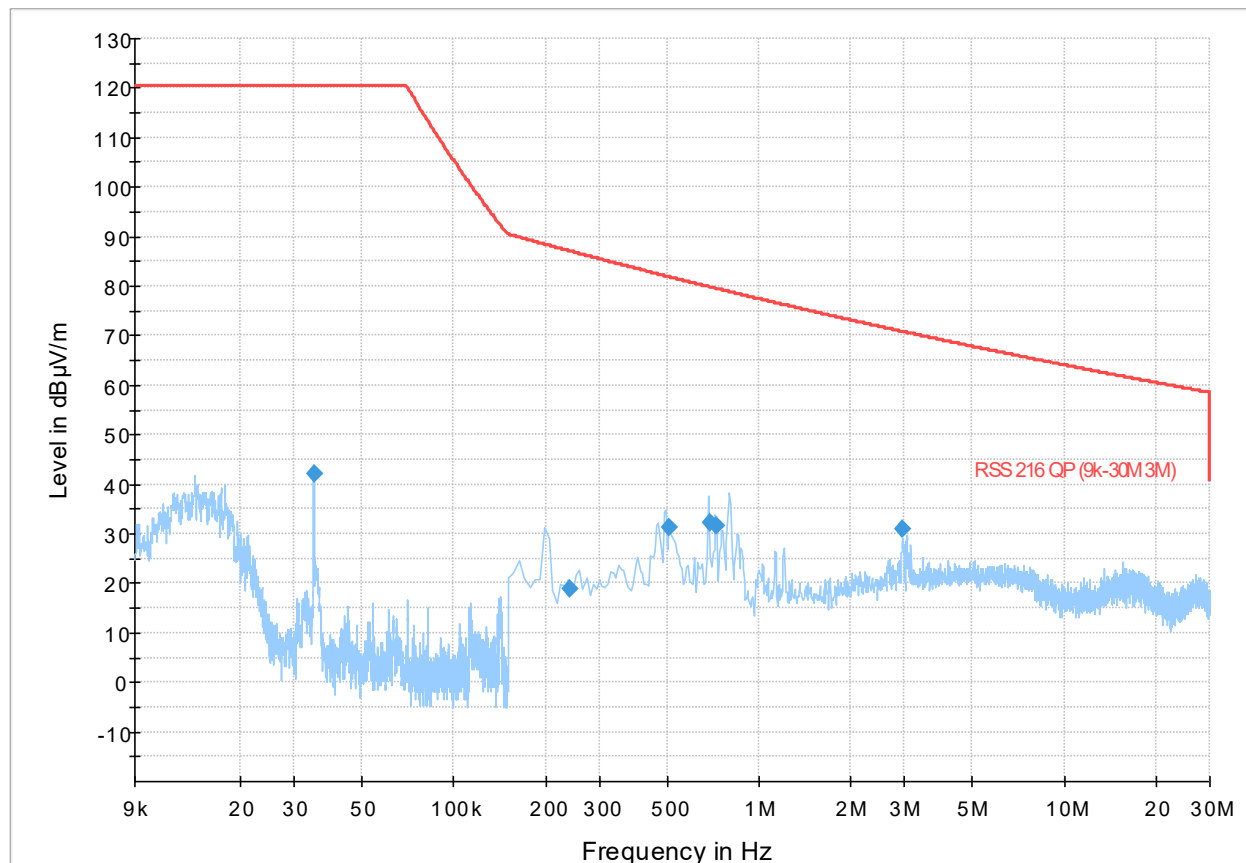


Figure 8.1-20: Radiated emissions spectral plot (9k-30MHz) iPhone with EUT, 90 degrees

Table 8.1-21: Radiated emissions results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.034718	42.24	120.50	78.26	5000.0	0.200	155.0	H	0.0	11.4
0.241000	18.87	87.03	68.17	5000.0	9.000	155.0	H	304.0	9.8
0.506205	31.37	81.87	50.50	5000.0	9.000	155.0	H	285.0	9.9
0.688159	32.22	79.83	47.61	5000.0	9.000	155.0	H	30.0	9.9
0.721057	31.48	79.52	48.05	5000.0	9.000	155.0	H	261.0	9.9
2.954591	30.87	70.80	39.93	5000.0	9.000	155.0	H	20.0	9.9

Notes:

¹ Field strength (dBµV/m) = receiver/spectrum analyzer value (dBµV) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

Full Spectrum

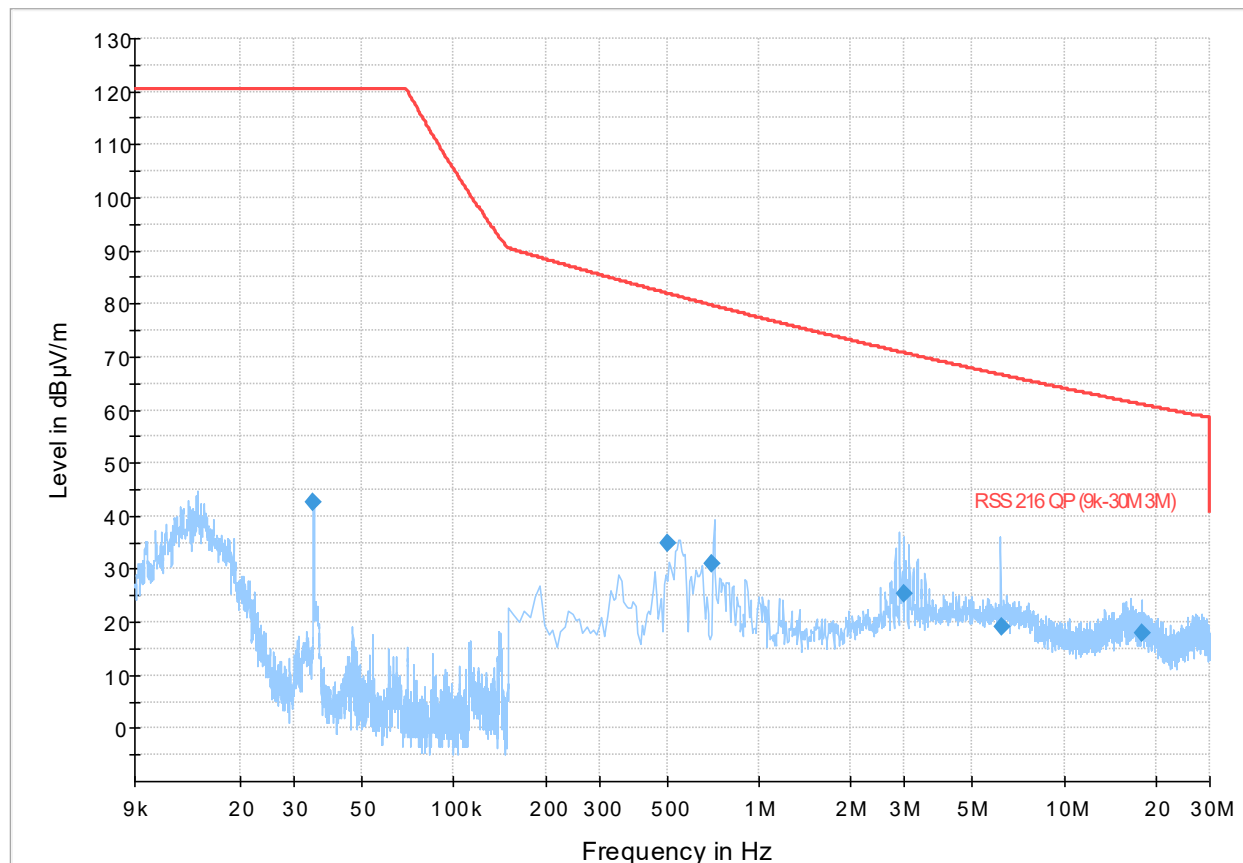


Figure 8.1-21: Radiated emissions spectral plot (9k-30MHz) Samsung with EUT, 0 degree

Table 8.1-22: Radiated emissions results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.034678	42.74	120.50	77.76	5000.0	0.200	155.0	H	163.0	11.4
0.499262	34.84	81.97	47.13	5000.0	9.000	155.0	H	207.0	9.9
0.702080	31.16	79.70	48.54	5000.0	9.000	155.0	H	333.0	9.9
2.984512	25.33	70.74	45.42	5000.0	9.000	155.0	H	27.0	9.9
6.231625	18.99	66.58	47.59	5000.0	9.000	155.0	H	252.0	9.8
17.993352	17.92	61.02	43.10	5000.0	9.000	155.0	H	42.0	8.3

Notes:

¹ Field strength (dBµV/m) = receiver/spectrum analyzer value (dBµV) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

Full Spectrum

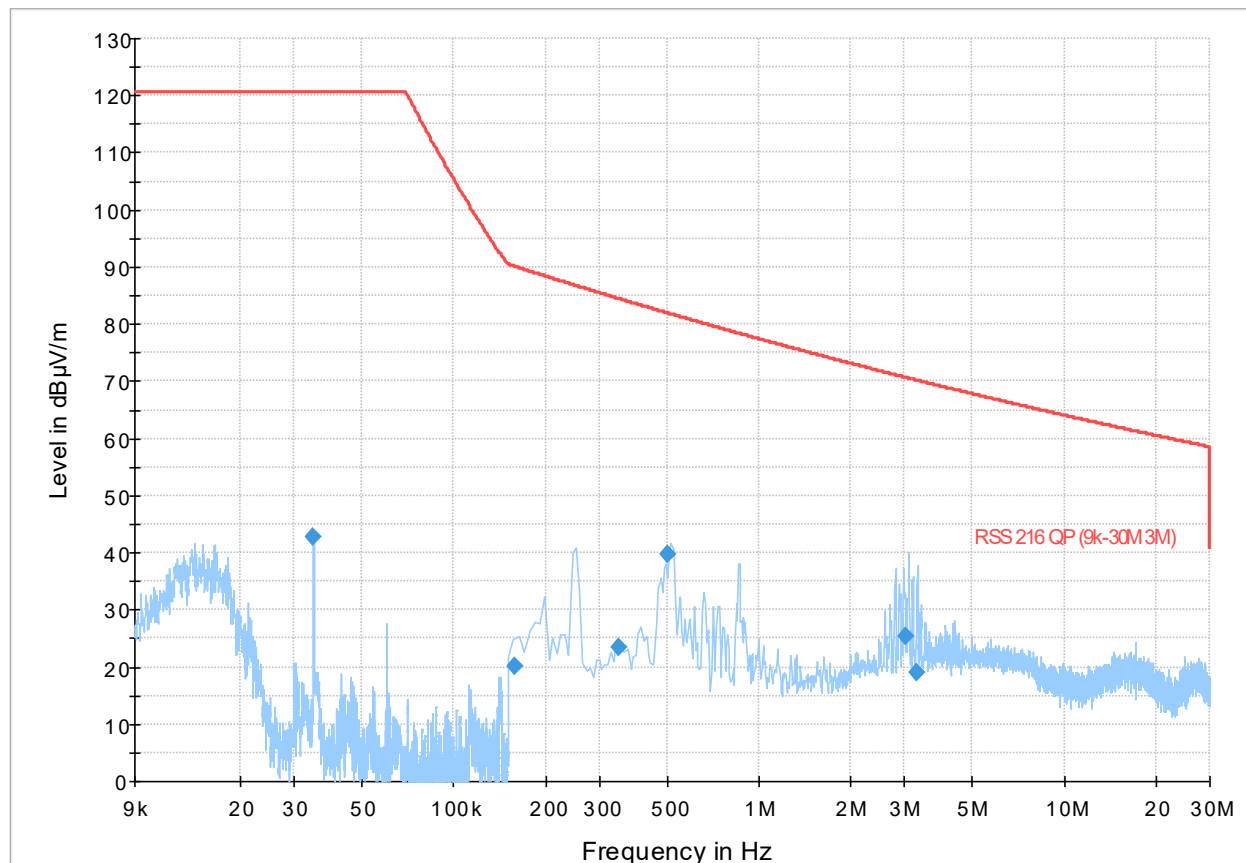


Figure 8.1-22: Radiated emissions spectral plot (9k-30MHz) Samsung with EUT, 90 degrees

Table 8.1-23: Radiated emissions results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.034710	42.73	120.50	77.77	5000.0	0.200	155.0	H	93.0	11.4
0.158000	20.20	90.11	69.91	5000.0	9.000	155.0	H	228.0	9.9
0.344762	23.53	84.51	60.98	5000.0	9.000	155.0	H	207.0	9.9
0.504125	39.63	81.90	42.27	5000.0	9.000	155.0	H	353.0	9.9
3.026080	25.27	70.66	45.40	5000.0	9.000	155.0	H	352.0	9.9
3.297602	18.99	70.17	51.18	5000.0	9.000	155.0	H	64.0	9.9

Notes: ¹ Field strength (dBµV/m) = receiver/spectrum analyzer value (dBµV) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

Full Spectrum

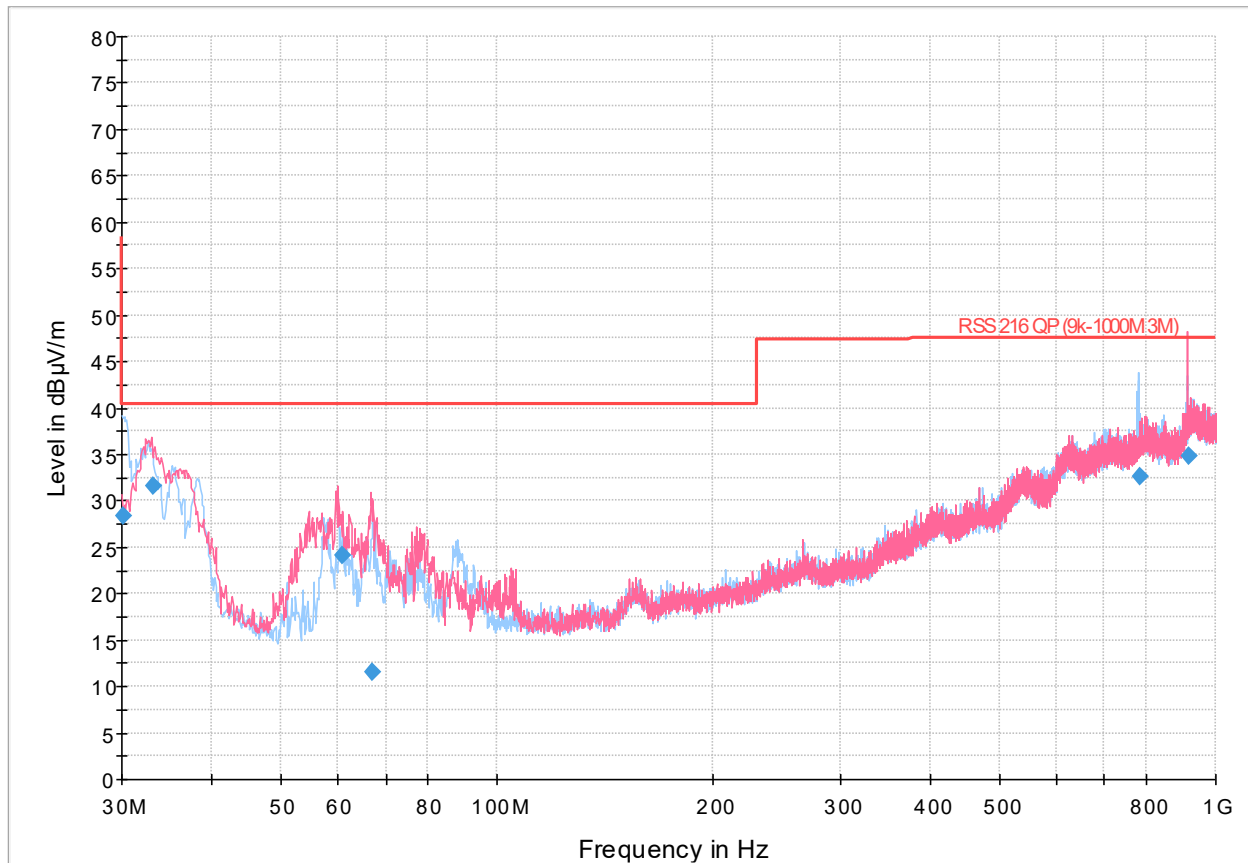


Figure 8.1-23: Radiated emissions spectral plot (30-1000MHz) iPhone with EUT

Table 8.1-24: Radiated emissions results

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.089000	28.29	40.50	12.21	5000.0	120.000	128.0	H	322.0	22.8
33.182607	31.56	40.50	8.94	5000.0	120.000	402.0	V	69.0	21.2
60.883006	24.17	40.50	16.33	5000.0	120.000	298.0	V	0.0	13.7
66.966588	11.52	40.50	28.98	5000.0	120.000	220.0	V	310.0	14.1
784.518250	32.57	47.49	14.92	5000.0	120.000	367.0	H	86.0	32.7
918.390500	34.80	47.50	12.70	5000.0	120.000	369.0	V	238.0	35.0

Notes: ¹ Field strength (dBμV/m) = receiver/spectrum analyzer value (dBμV) + correction factor (dB)
² Correction factors = antenna factor ACF (dB) + cable loss (dB)
³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

Full Spectrum

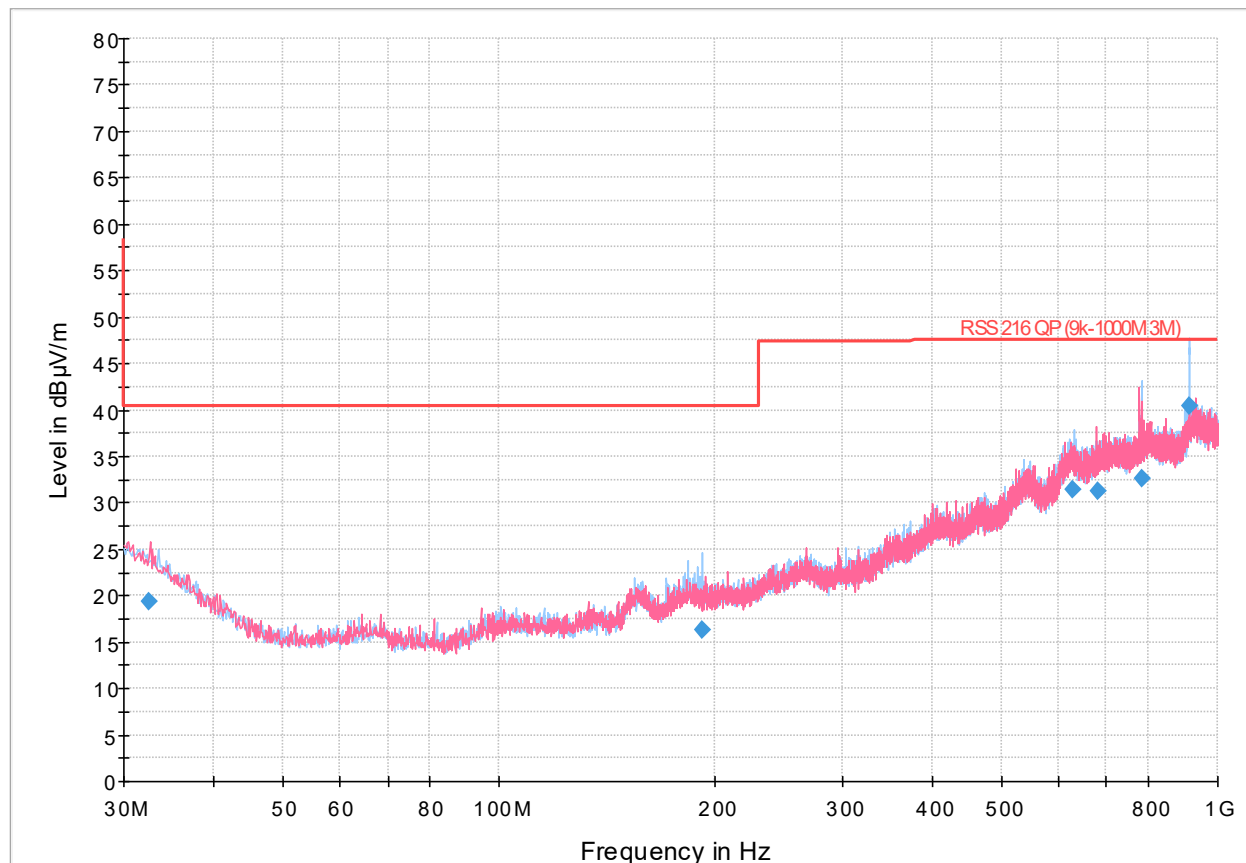


Figure 8.1-24: Radiated emissions spectral plot (30-1000MHz) Samsung with EUT

Table 8.1-25: Radiated emissions results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
32.464563	19.43	40.50	21.07	5000.0	120.000	243.0	V	352.0	21.6
191.744500	16.25	40.50	24.25	5000.0	120.000	152.0	H	45.0	17.1
627.221750	31.43	47.49	16.06	5000.0	120.000	208.0	H	303.0	31.4
681.452250	31.23	47.49	16.26	5000.0	120.000	333.0	V	304.0	31.4
784.869000	32.60	47.49	14.89	5000.0	120.000	194.0	H	50.0	32.7
915.028250	40.41	47.50	7.09	5000.0	120.000	278.0	H	218.0	34.7

Notes:

¹ Field strength (dBµV/m) = receiver/spectrum analyzer value (dBµV) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

Full Spectrum

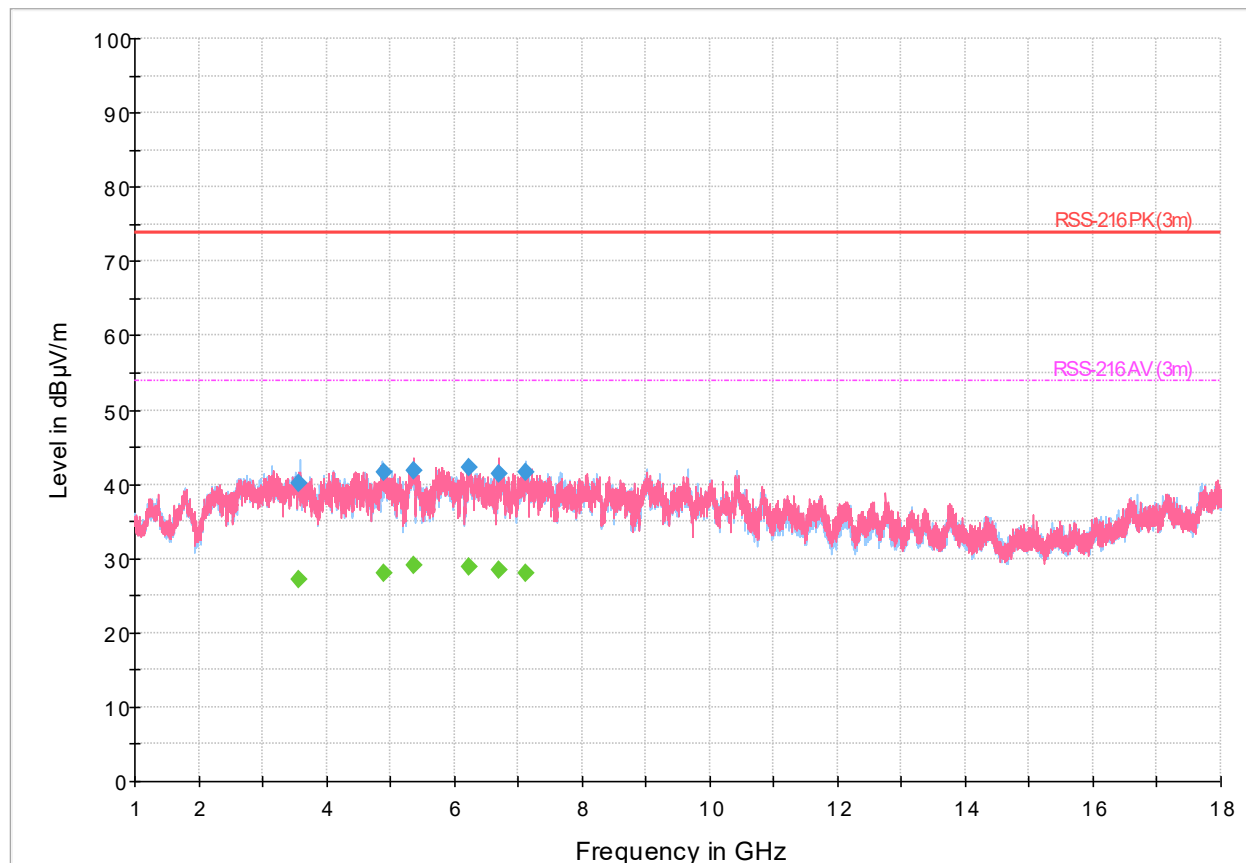


Figure 8.1-25: Radiated emissions spectral plot (1 GHz - 18 GHz) iPhone with EUT

Table 8.1-26: Radiated emissions results

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3567.902111	40.23	---	73.90	33.67	5000.0	1000.000	387.0	H	335.0	-6.0
3567.902111	---	27.23	53.90	26.67	5000.0	1000.000	387.0	H	335.0	-6.0
4898.854167	41.54	---	73.90	32.36	5000.0	1000.000	183.0	H	110.0	-2.7
4898.854167	---	28.03	53.90	25.87	5000.0	1000.000	183.0	H	110.0	-2.7
5370.476167	---	29.09	53.90	24.81	5000.0	1000.000	205.0	V	339.0	-2.1
5370.476167	41.76	---	73.90	32.14	5000.0	1000.000	205.0	V	339.0	-2.1
6218.866722	---	28.88	53.90	25.02	5000.0	1000.000	352.0	H	326.0	-0.1
6218.866722	42.32	---	73.90	31.58	5000.0	1000.000	352.0	H	326.0	-0.1
6708.048944	---	28.46	53.90	25.44	5000.0	1000.000	346.0	V	262.0	-0.1
6708.048944	41.46	---	73.90	32.44	5000.0	1000.000	346.0	V	262.0	-0.1
7107.871556	---	28.02	53.90	25.88	5000.0	1000.000	151.0	H	254.0	-0.3
7107.871556	41.68	---	73.90	32.22	5000.0	1000.000	151.0	H	254.0	-0.3

Notes: ¹ Field strength (dBμV/m) = receiver/spectrum analyzer value (dBμV) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

Full Spectrum

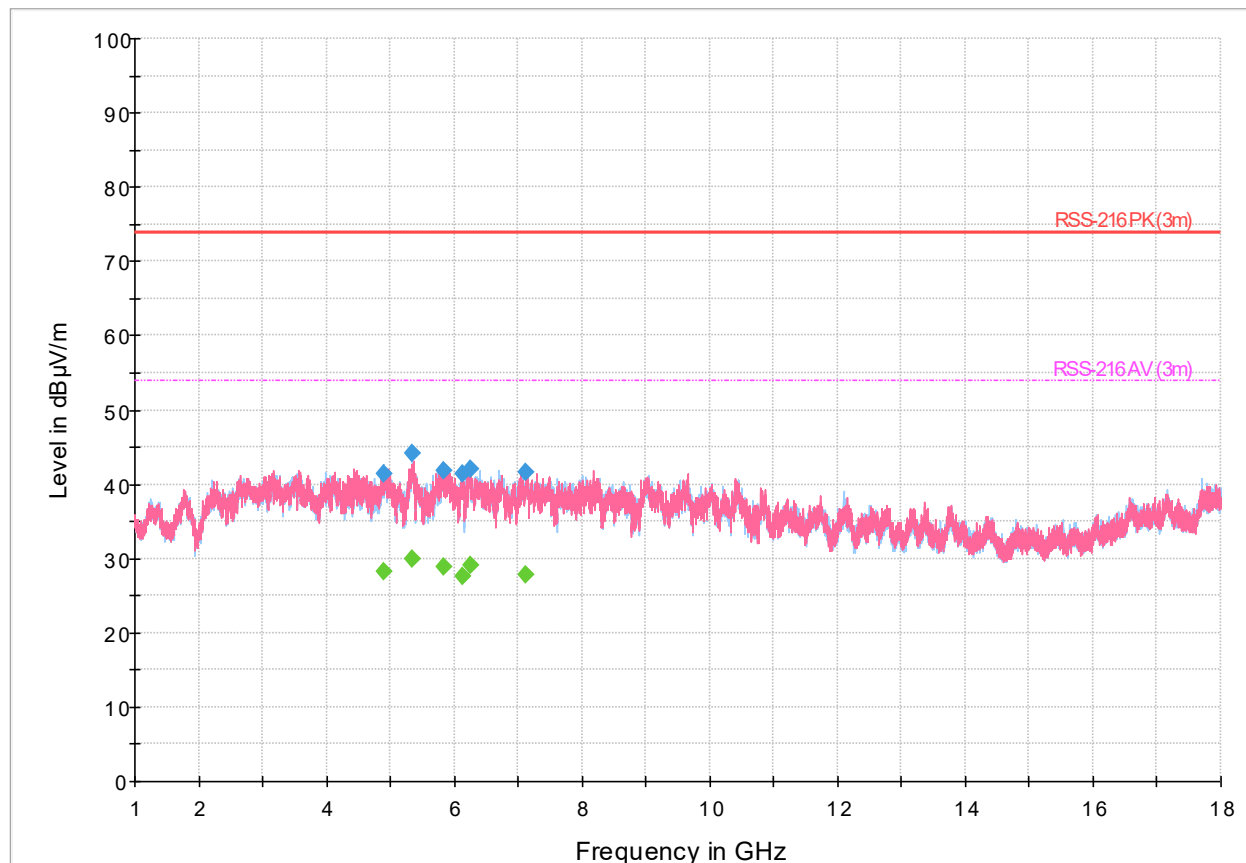


Figure 8.1-26: Radiated emissions spectral plot (1 GHz - 18 GHz) Samsung with EUT

Table 8.1-27: Radiated emissions results

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4894.664278	---	28.13	53.90	25.77	5000.0	1000.000	340.0	H	272.0	-2.7
4894.664278	41.37	---	73.90	32.53	5000.0	1000.000	340.0	H	272.0	-2.7
5351.479611	44.18	---	73.90	29.72	5000.0	1000.000	402.0	V	0.0	-1.9
5351.479611	---	29.96	53.90	23.94	5000.0	1000.000	402.0	V	0.0	-1.9
5829.212500	---	28.86	53.90	25.04	5000.0	1000.000	397.0	V	12.0	-1.1
5829.212500	41.90	---	73.90	32.00	5000.0	1000.000	397.0	V	12.0	-1.1
6130.260444	---	27.69	53.90	26.21	5000.0	1000.000	281.0	V	34.0	-1.0
6130.260444	41.44	---	73.90	32.46	5000.0	1000.000	281.0	V	34.0	-1.0
6251.067444	---	29.13	53.90	24.77	5000.0	1000.000	391.0	V	271.0	0.0
6251.067444	42.13	---	73.90	31.77	5000.0	1000.000	391.0	V	271.0	0.0
7129.103167	41.62	---	73.90	32.28	5000.0	1000.000	266.0	H	290.0	-0.5
7129.103167	---	27.88	53.90	26.02	5000.0	1000.000	266.0	H	290.0	-0.5

Notes: ¹ Field strength (dBµV/m) = receiver/spectrum analyzer value (dBµV) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

8.2 Conducted emissions from AC mains ports

8.2.1 References and limits

- FCC 47 CFR Part 15, Subpart C: §15.207
- ISSED: RSS-216 §5.3.2
- Test method: ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024: §6.2

Table 8.2-1: Requirements for Conducted emissions from AC mains ports

Frequency of emission, MHz	Quasi-peak	Conducted limit, dBμV	Average
0.15–0.5	66 to 56*		56 to 46*
0.5–5	56		46
5–30	60		50

Note: * Decreases with the logarithm of the frequency.

Table 8.2-2: RSS 216 Requirements for Conducted emissions from AC mains ports

Frequency of emission, MHz	Quasi-peak	Conducted limit, dBμV	Average
0.009 to 0.05	110		-
0.05 to 0.15	90 to 80		-
0.15 to 0.5	66 to 56		56 to 46
0.5 to 5	56		46
5 to 30	60		50

Note: * Decreases with the linearity of the frequency.

8.2.2 Test summary

Verdict	Pass		
Test date	September 4, 2026	Temperature	22.3 °C
Test engineer	Chenhao Ma, Wireless Test Technician	Air pressure	1002.2 mbar
Test location	☒ Ground plane ☐ Other:	Relative humidity	61 %

8.2.3 Notes

The spectral plots within this section have been corrected with all relevant transducer factors.

Equipment with a DC power port powered by a dedicated AC/DC power converter is considered to be AC mains powered equipment and tested with a power converter. Where the manufacturer provided the power converter, the supplied converter was used.

Measurements were made of the AC input of both the Samsung and iPhone support equipment.

8.2.4 Setup details

Port under test – Coupling device	AC input of AC/DC charger
EUT power input during test	120VAC/60Hz
EUT setup configuration	☒ Table-top ☐ Floor standing ☐ Other:
Measurement details	A preview measurement was generated with the receiver in continuous scan mode. Selected emissions were re-measured with the appropriate detector(s) against the correlating limit(s) and recorded as the final measurement.

Receiver settings:

Resolution bandwidth	9 kHz
Detector mode	– Peak and Average (Preview measurement) – Quasi-peak and Average (Final measurement)
Trace mode	Max Hold
Measurement time	– 100 ms (Peak and Average preview measurement) – 5000 ms (Quasi-peak and Average final measurement)

8.2.5 Test data

Full Spectrum

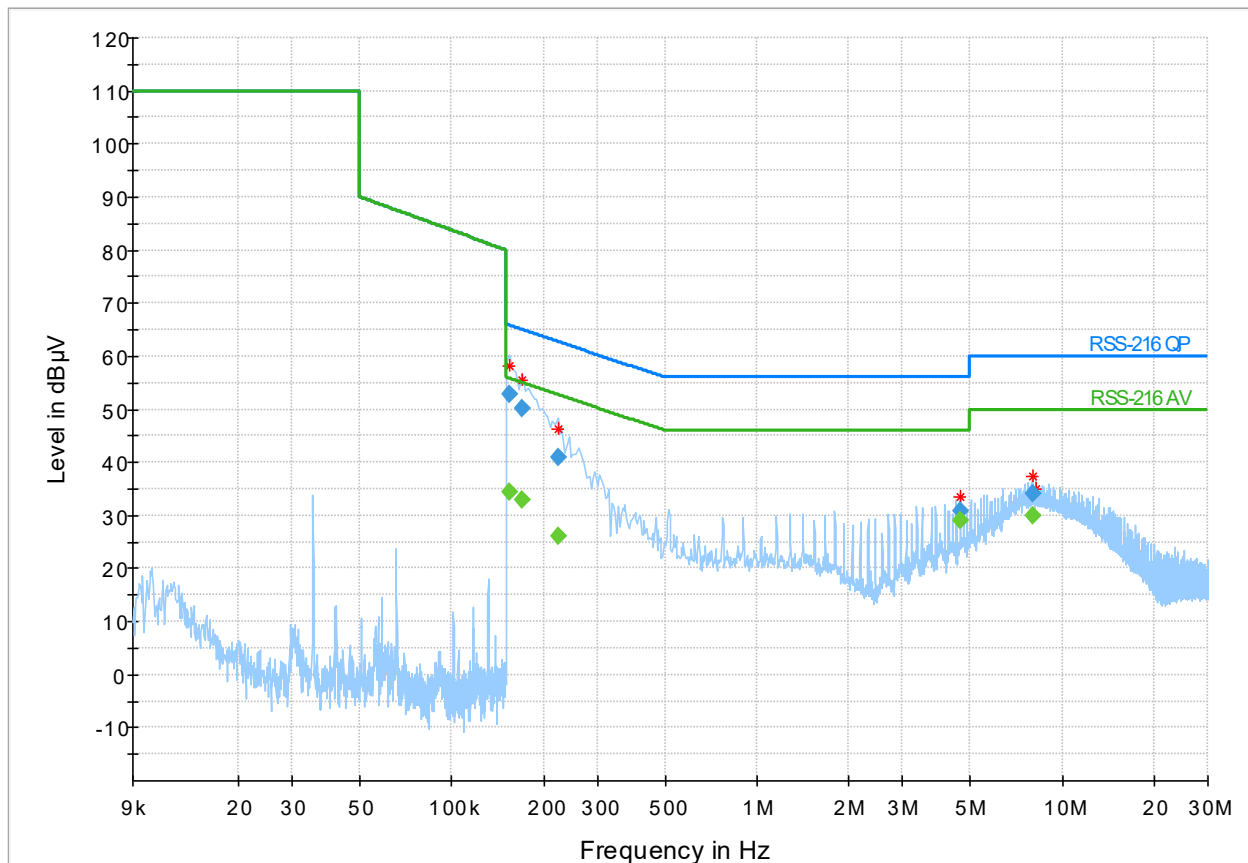


Figure 8.2-1: Conducted emissions at mains port spectral plot (9 kHz - 30 MHz), iPhone with EUT

Table 8.2-3: Conducted emissions at mains port results

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.154000	---	34.27	55.89	21.62	5000.0	9.000	N	ON	19.7
0.154000	52.69	---	65.89	13.20	5000.0	9.000	N	ON	19.7
0.170000	50.14	---	65.43	15.29	5000.0	9.000	L1	ON	19.7
0.170000	---	32.82	55.43	22.61	5000.0	9.000	L1	ON	19.7
0.222000	---	26.10	53.94	27.84	5000.0	9.000	L1	ON	19.7
0.222000	41.07	---	63.94	22.87	5000.0	9.000	L1	ON	19.7
4.626000	---	29.00	46.00	17.00	5000.0	9.000	N	ON	19.7
4.626000	30.75	---	56.00	25.25	5000.0	9.000	N	ON	19.7
7.966000	---	29.82	50.00	20.18	5000.0	9.000	N	ON	20.0
7.966000	34.06	---	60.00	25.94	5000.0	9.000	N	ON	20.0

Notes: ¹ Result (dBµV) = receiver analyzer value (dBµV) + correction factor (dB).
² Correction factors = LISN factor IL (dB) + cable loss (dB) + transient limiter (dB)
³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

Full Spectrum

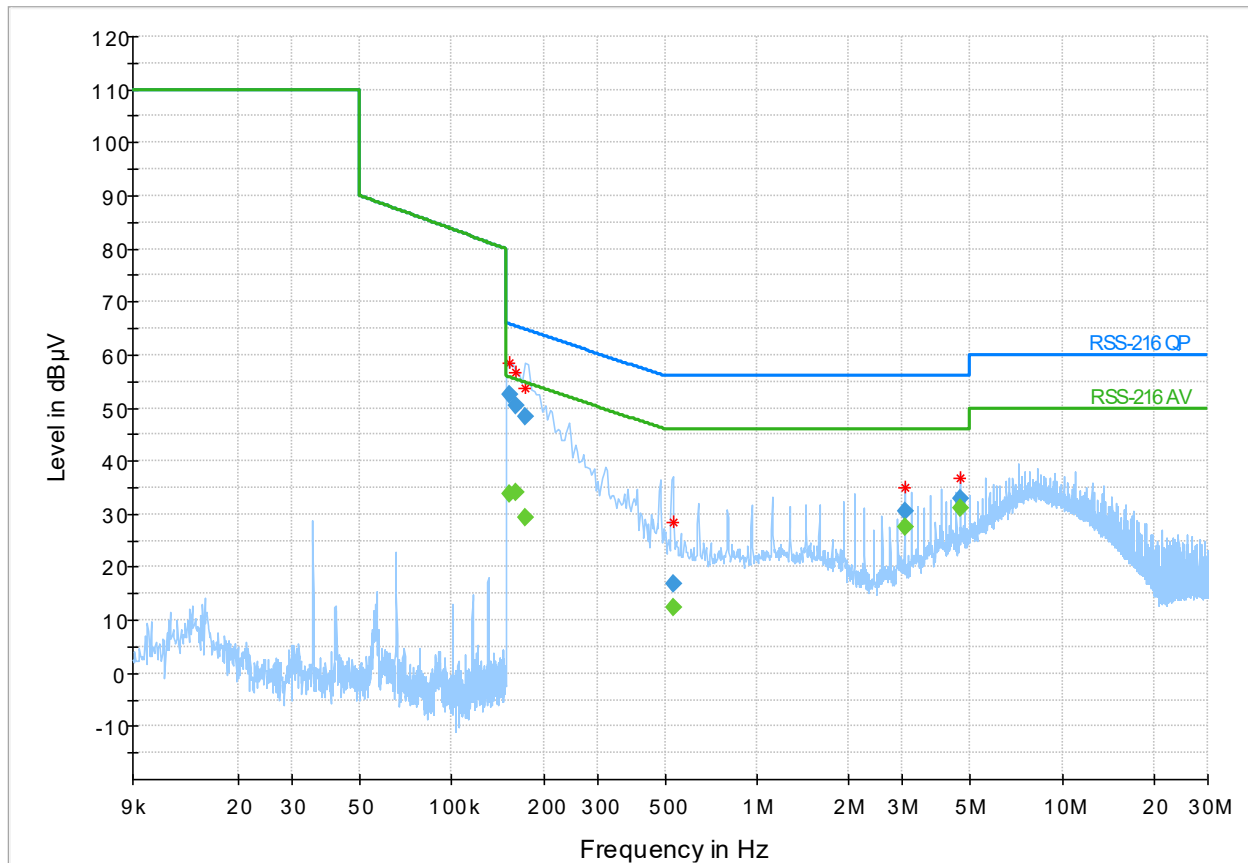


Figure 8.2-2: Conducted emissions at mains port spectral plot (9 kHz - 30 MHz), Samsung withEUT

Table 8.2-4: Conducted emissions at mains port results

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.154000	---	33.78	55.89	22.10	5000.0	9.000	L1	ON	19.7
0.154000	52.41	---	65.89	13.48	5000.0	9.000	L1	ON	19.7
0.162000	---	34.15	55.66	21.51	5000.0	9.000	L1	ON	19.7
0.162000	50.54	---	65.66	15.11	5000.0	9.000	L1	ON	19.7
0.174000	48.43	---	65.31	16.88	5000.0	9.000	N	ON	19.7
0.174000	---	29.41	55.31	25.90	5000.0	9.000	N	ON	19.7
0.530000	---	12.30	46.00	33.70	5000.0	9.000	N	ON	19.6
0.530000	16.85	---	56.00	39.15	5000.0	9.000	N	ON	19.6
3.050000	30.47	---	56.00	25.53	5000.0	9.000	L1	ON	19.7
3.050000	---	27.41	46.00	18.59	5000.0	9.000	L1	ON	19.7
4.654000	---	31.23	46.00	14.77	5000.0	9.000	N	ON	19.7
4.654000	32.86	---	56.00	23.14	5000.0	9.000	N	ON	19.7

Notes:

¹ Result (dBμV) = receiver analyzer value (dBμV) + correction factor (dB).

² Correction factors = LISN factor IL (dB) + cable loss (dB) + transient limiter (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

8.3 Frequency stability

8.3.1 References and limits

- ISED: RSS-216 §5.5
- Test method: ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024: §6.8

8.3.2 Test summary

Verdict	Pass		
Test date	September 4, 2026	Temperature	22.3 °C
Test engineer	Chenhao Ma, Wireless Test Technician	Air pressure	1002.2 mbar
Test location	☐ Ground plane ☒ Other: Temperature chamber	Relative humidity	61 %

8.3.3 Notes

None

8.3.4 Setup details

EUT power input during test	
EUT setup configuration	☐ Table-top ☐ Floor standing ☒ Other: Temperature chamber
Measurement details	A preview measurement was generated with the receiver in continuous scan mode. Selected emissions were re-measured with the appropriate detector(s) against the correlating limit(s) and recorded as the final measurement.

Receiver settings:

Resolution bandwidth	1 kHz
Detector mode	Peak
Trace mode	Max Hold
Measurement time	Auto

8.3.5 Test data

Test environment	Center frequency(kHz)	Low edge(kHz)	High edge(kHz)
-20°C	128.0215	126.4301	129.6131
+20°C	128.03687	126.4659	129.6078
+50°C	128.2636	126.9298	129.5974

Table 8.3-1: Frequency stability iPhone with EUT

Test environment	Center frequency(kHz)	Low edge(kHz)	High edge(kHz)
-20°C	157.3253	156.1803	158.4704
+20°C	156.318474	155.1937	157.4433
+50°C	157.383232	156.2568	158.5097

Table 8.3-2: Frequency stability Samsung with EUT

Section 8
Test name

Testing data
Frequency stability

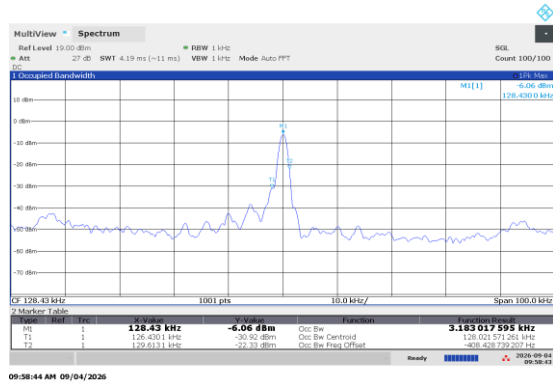


Figure 8.3 1 -20°C OBW, EUT with iPhone

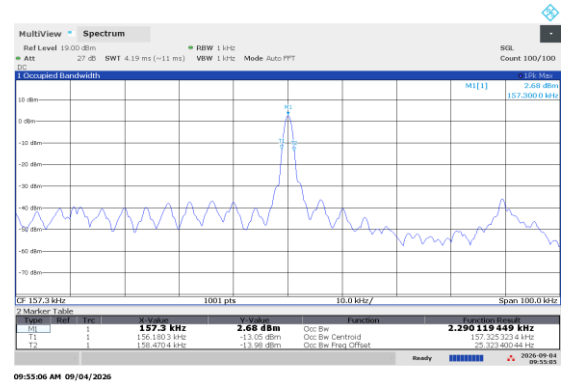


Figure 8.3-2 -20°C OBW, EUT with Samsung

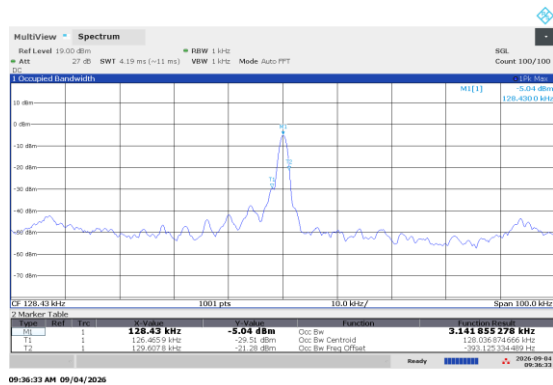


Figure 8.3-3 20°C OBW, EUT with iPhone

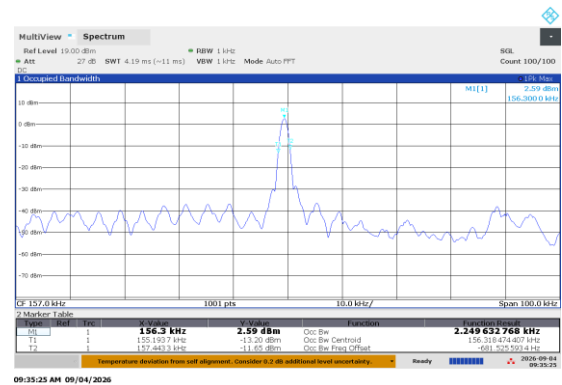


Figure 8.3-4 20°C OBW, EUT with Samsung

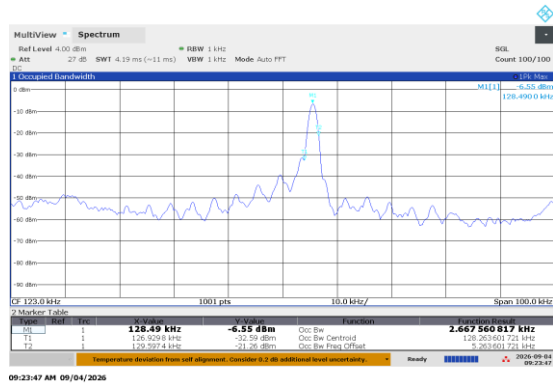


Figure 8.3-5 50°C OBW, EUT with iPhone

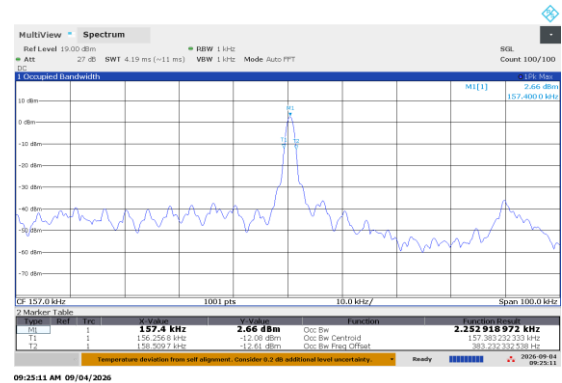


Figure 8.3-6 50°C OBW Samsung

8.4 99% occupied bandwidth

8.4.1 References and limits

- ISED: RSS-Gen: §5.1
- Test method: ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024: §6.9.2

RSS-GEN:

- 5.1 The occupied bandwidth shall be reported for all radio apparatus, in addition to the specified bandwidth required in the applicable RSS, such as the x dB bandwidth.

The following conditions shall apply for measuring the occupied bandwidth and x dB bandwidth:

- the transmitter shall be operated at its maximum power
- the span of the spectrum analyzer shall be set large enough to capture all products of the modulation process around the carrier or center frequency, including the emission skirts, but small enough to avoid having other emissions (e.g., on adjacent channels) within the span

8.4.2 Test summary

Verdict	Pass		
Test date	September 4, 2026	Temperature	22.3 °C
Test engineer	Chenhao Ma, Wireless Test Technician	Air pressure	1002.2 mbar
Test location	☐ Ground plane ☒ Other: Temperature chamber	Relative humidity	61 %

8.4.3 Notes

Testing was performed simultaneously with frequency stability measurements.

8.4.4 Setup details

EUT power input during test	
EUT setup configuration	☐ Table-top ☐ Floor standing ☒ Other: Temperature chamber
Measurement details	A preview measurement was generated with the receiver in continuous scan mode. Selected emissions were re-measured with the appropriate detector(s) against the correlating limit(s) and recorded as the final measurement.

Receiver settings:

Resolution bandwidth	1 kHz
Detector mode	Peak
Trace mode	Max Hold
Measurement time	Auto

8.4.5 Test data

Operating mode	Maximum measured occupied bandwidth
EUT with iPhone	3.183 kHz
EUT with Samsung	2.290 kHz

Table 8.4-1: 99% occupied bandwidth test data

For plots, please refer to frequency stability test data.

End of test report