# Nemko

# Input signal = middle channel within the frequency block; broadband:





# Input signal = highest channel within the frequency block; broadband:





# 8.6 Radiated spurious emissions

#### 8.6.1 References and limits

- FCC Part 24.238 & RSS-133 (band 25 operation)
- FCC Part 27.53(a) & RSS-195 (band 30 operation)
- FCC Part 27.53(h) & RSS-139 (band 66) and RSS-199 (band 41) (band 66, and 41 operation)
- ANSI C63.26 Clause 7.2.2.5
- KDB 935210 D05v01r05 Clause 3.8

#### 8.6.2 Test summary

Verdict	Pass		
Test date	December 1, 2023	Temperature	21 °C
	December 5, 2023	· · · ·	
Test engineer	Lan Sayasane, EMC Test Engineer	Air pressure	1010 mbar
	🗵 10m semi anechoic chamber		52 %
Test location	🖾 3m semi anechoic chamber	Relative humidity	
	🗆 Other:		
8.6.3 Notes			

Testing was performed with a narrowband test signal (MSK modulated, gaussian filter of 0.3 and data rate 270 kbps) and a broadband signal (AWGN, 4.1 MHz 99% occupied bandwidth) on lowest, middle, and highest channels of each supported frequency band. Only the worst-case data (broadband signal) are presented here.

In the range 30 – 1000 MHz, radiated emissions were essentially identical for all operational modes. Thus, data in this range is only presented for one representative operational mode (band 30 operation chosen since the emissions limit is the most stringent).

#### 8.6.4 Setup details

EUT power input during test	120 VAC / 60 Hz	
EUT setup configuration	🛛 Table-top	
	Floor standing	
	□ Other:	
Measurement details	Receiver/spectrum analyzer	settings for frequencies below 1 GHz:
	Resolution bandwidth	100 kHz
	Detector mode	<ul> <li>Peak (Preview measurement)</li> </ul>
	Trace mode	Max Hold
	Measurement time	<ul> <li>100 ms (Peak preview measurement)</li> </ul>
		<ul> <li>5000 ms (Peak final measurement)</li> </ul>
	Receiver/spectrum analyzer	settings for frequencies above 1 GHz:
	Resolution bandwidth	1 MHz
	Detector mode	Peak (Preview measurement)
		Peak (Final measurement)
	Trace mode	Max Hold
	Measurement time	<ul> <li>100 ms (Peak preview measurement)</li> </ul>
		<ul> <li>5000 ms (Peak final measurement)</li> </ul>



#### 8.6.5 Test data



100<sub>T</sub> 90 FCC Part 27 Radiated Spurious Emissions (n70) 80-70-Level in dBµV/m 60-50-40are startly be any start where a start of the start of the 30 20 10-0-30M 60 80 100M 200 300 50 400 500 800 1 G Frequency in Hz

Full Spectrum

Figure 8.6-1: Radiated emissions spectral plot (30 MHz - 1 GHz) – Band 70 (1995 MHz)

Table 8.6-1: Radiated emissions results

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
999.340000	41.04	84.38	43.34	5000.0	100.000	267.0	V	160.0	35.9
1 Field stress sth (dD)	41.04	04.30	43.34	3000.0	100.000	207.0	v	100.0	33.9

<sup>1</sup> Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB)

<sup>2</sup> Correction factors = antenna factor ACF (dB) + cable loss (dB)

<sup>3</sup> 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.

Notes:





Figure 8.6-2: Radiated emissions spectral plot (1 GHz - 18 GHz) - Band 70 (1995 MHz)

Table 8.6-2: Radiated emissions results

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2527.366667	40.50	82.23	41.73	5000.0	1000.000	339.0	V	59.0	-9.5
3990.133333	57.28	82.23	24.95	5000.0	1000.000	209.0	V	46.0	-4.0
12407.333333	46.16	82.23	36.07	5000.0	1000.000	153.0	Н	84.0	7.3
16362.900000	49.62	82.23	32.61	5000.0	1000.000	249.0	V	201.0	13.0
16715.200000	50.08	82.23	32.15	5000.0	1000.000	176.0	V	151.0	14.7
17816.233333	50.40	82.23	31.83	5000.0	1000.000	397.0	н	0.0	15.1

Notes:

<sup>1</sup> Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB) <sup>2</sup> Correction factors = antenna factor ACF (dB) + cable loss (dB)

<sup>3</sup> 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.

Marked emission at 1.99 GHz is the fundamental emission and is not evaluated against the limits.





Figure 8.6-3: Radiated emissions spectral plot (18 GHz - 20.2 GHz) - Band 70 (1995 MHz) Table 8.6-3: 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)
18257.725000		27.50			5000.0	1000.000	181.0	V	219.0	15.5
18257.725000	40.53		82.23	41.70	5000.0	1000.000	181.0	V	219.0	15.5
18591.237500		27.47			5000.0	1000.000	400.0	Н	159.0	16.1
18591.237500	40.86		82.23	41.37	5000.0	1000.000	400.0	Н	159.0	16.1
18745.787500	40.51		82.23	41.72	5000.0	1000.000	400.0	Н	32.0	15.9
18745.787500		27.25			5000.0	1000.000	400.0	Н	32.0	15.9
19201.100000		25.61			5000.0	1000.000	213.0	Н	91.0	16.3
19201.100000	39.31		82.23	42.92	5000.0	1000.000	213.0	Н	91.0	16.3
19369.287500		27.02			5000.0	1000.000	366.0	Н	113.0	16.7
19369.287500	40.31		82.23	41.92	5000.0	1000.000	366.0	Н	113.0	16.7
19916.512500	39.86		82.23	42.37	5000.0	1000.000	267.0	V	112.0	16.1
19916.512500		26.60			5000.0	1000.000	267.0	V	112.0	16.1

<sup>1</sup> Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB)

<sup>2</sup> Correction factors = antenna factor ACF (dB) + cable loss (dB)





Figure 8.6-4: Radiated emissions spectral plot (30 MHz - 1 GHz) - Band 70 (2007.5 MHz)

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Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
113.641667	30.19	84.38	54.19	5000.0	100.000	390.0	V	336.0	18.4
683.189167	39.25	84.38	45.13	5000.0	100.000	331.0	Н	159.0	30.1
689.067500	34.97	84.38	49.41	5000.0	100.000	295.0	Н	108.0	30.3
691.878333	43.21	84.38	41.17	5000.0	100.000	284.0	н	148.0	30.3
691.953333	44.79	84.38	39.59	5000.0	100.000	379.0	Н	0.0	30.3
999.900000	40.83	84.38	43.55	5000.0	100.000	152.0	н	21.0	35.9

Notes:

<sup>1</sup> Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB)

<sup>2</sup> Correction factors = antenna factor ACF (dB) + cable loss (dB)





Figure 8.6-5: Radiated emissions spectral plot (1 GHz - 18 GHz) – Band 70 (2007.5 MHz)

Table 8.6-5: Radiated emissions results

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4014.933333	56.83	82.23	25.40	5000.0	1000.000	167.0	V	48.0	-3.8
12294.100000	46.75	82.23	35.48	5000.0	1000.000	111.0	V	0.0	7.1
16308.200000	50.29	82.23	31.94	5000.0	1000.000	122.0	Н	354.0	13.4
16652.933333	49.73	82.23	32.50	5000.0	1000.000	288.0	V	139.0	14.1
17204.033333	51.17	82.23	31.06	5000.0	1000.000	388.0	Н	99.0	15.0
17795.933333	50.06	82.23	32.17	5000.0	1000.000	206.0	н	174.0	15.1

Notes:

<sup>1</sup> Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB) <sup>2</sup> Correction factors = antenna factor ACF (dB) + cable loss (dB)

<sup>3</sup> 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.

Marked emission at 2.00 GHz is the fundamental emission and is not evaluated against the limits.







Figure 8.6-6: Radiated emissions spectral plot (18 GHz - 20.2 GHz) - Band 70 (2007.5 MHz)

			Table 8.6	<b>5-6</b> : Radiate	d emission	s 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)
18138.500000	40.34		82.23	41.89	5000.0	1000.000	205.0	Н	115.0	15.6
18138.500000		27.10			5000.0	1000.000	205.0	Н	115.0	15.6
18339.675000		25.95			5000.0	1000.000	190.0	Н	0.0	15.3
18339.675000	38.97		82.23	43.26	5000.0	1000.000	190.0	Н	0.0	15.3
18845.425000		27.52			5000.0	1000.000	164.0	V	0.0	15.9
18845.425000	40.79		82.23	41.44	5000.0	1000.000	164.0	V	0.0	15.9
18943.900000		27.36			5000.0	1000.000	391.0	V	0.0	15.9
18943.900000	40.13		82.23	42.10	5000.0	1000.000	391.0	V	0.0	15.9
19348.812500		27.98			5000.0	1000.000	366.0	V	256.0	16.7
19348.812500	41.66		82.23	40.57	5000.0	1000.000	366.0	V	256.0	16.7
19979.837500	40.33		82.23	41.90	5000.0	1000.000	351.0	Н	186.0	16.4
19979.837500		27.03			5000.0	1000.000	351.0	Н	186.0	16.4

Notes: <sup>1</sup> Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB)

<sup>2</sup> Correction factors = antenna factor ACF (dB) + cable loss (dB)





Figure 8.6-7: Radiated emissions spectral plot (30 MHz - 1 GHz) – Band 70 (2020 MHz)

Table 8.6-7: Radiated emissions results

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
998.980000	40.77	84.38	43.61	5000.0	100.000	229.0	Н	310.0	35.9

Notes:

<sup>1</sup> Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB)

<sup>2</sup> Correction factors = antenna factor ACF (dB) + cable loss (dB)





Figure 8.6-8: Radiated emissions spectral plot (1 GHz - 18 GHz) - Band 70 (2020 MHz)

Table 8.6-8: Radiated emissions results

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1909.633333	38.06	82.23	44.17	5000.0	1000.000	336.0	Н	335.0	-10.8
4040.000000	54.40	82.23	27.83	5000.0	1000.000	222.0	V	21.0	-3.6
12798.833333	46.25	82.23	35.98	5000.0	1000.000	332.0	V	235.0	8.6
16311.366667	50.27	82.23	31.96	5000.0	1000.000	370.0	V	278.0	13.4
16736.433333	50.73	82.23	31.50	5000.0	1000.000	167.0	V	174.0	14.8
17205.833333	50.11	82.23	32.12	5000.0	1000.000	205.0	н	339.0	15.0

Notes:

<sup>1</sup> Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB) <sup>2</sup> Correction factors = antenna factor ACF (dB) + cable loss (dB)

<sup>3</sup> 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.

Marked emission at 2.01 GHz is the fundamental emission and is not evaluated against the limits.





Figure 8.6-9: Radiated emissions spectral plot (18 GHz - 20.2 GHz) - Band 70 (2020 MHz)

			Table 8.6	<b>5-9</b> : Radiate	d emission	s 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)
18075.387500	40.07		82.23	42.16	5000.0	1000.000	157.0	V	0.0	15.7
18075.387500		26.76			5000.0	1000.000	157.0	V	0.0	15.7
18320.575000	40.57		82.23	41.66	5000.0	1000.000	285.0	V	216.0	15.4
18320.575000		27.14			5000.0	1000.000	285.0	V	216.0	15.4
18666.250000		27.09			5000.0	1000.000	157.0	Н	162.0	16.0
18666.250000	40.71		82.23	41.52	5000.0	1000.000	157.0	Н	162.0	16.0
18881.187500	41.01		82.23	41.22	5000.0	1000.000	132.0	V	91.0	15.9
18881.187500		27.55			5000.0	1000.000	132.0	V	91.0	15.9
19364.987500	40.88		82.23	41.35	5000.0	1000.000	257.0	V	245.0	16.7
19364.987500		27.53			5000.0	1000.000	257.0	V	245.0	16.7
20031.850000		27.36			5000.0	1000.000	318.0	Н	225.0	16.6
20031.850000	41.11		82.23	41.12	5000.0	1000.000	318.0	Н	225.0	16.6

<sup>1</sup> Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB)

<sup>2</sup> Correction factors = antenna factor ACF (dB) + cable loss (dB)



#### 8.6.5.2 Operating frequency band: Band 66: 2110 – 2200 MHz





### Figure 8.6-10: Radiated emissions spectral plot (30 MHz - 1 GHz) - Band 66 (2110 MHz)

Table 8.6-10: Radiated emissions results

	Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)		
	998.580000	41.67	84.38	42.71	5000.0	100.000	175.0	Н	34.0	35.9		
Notes:	: <sup>1</sup> Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB)											

<sup>1</sup> Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB)

<sup>2</sup> Correction factors = antenna factor ACF (dB) + cable loss (dB)





Figure 8.6-11: Radiated emissions spectral plot (1 GHz - 18 GHz) – Band 66 (2110 MHz)

Table 8.6-11: Radiated emissions results

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2505.133333	38.45	82.23	43.78	5000.0	1000.000	115.0	Н	325.0	-9.5
4221.900000	63.19	82.23	19.04	5000.0	1000.000	204.0	V	35.0	-3.7
6330.900000	49.52	82.23	32.71	5000.0	1000.000	206.0	V	35.0	0.3
16337.733333	49.92	82.23	32.31	5000.0	1000.000	328.0	V	339.0	13.2
17255.066667	51.27	82.23	30.96	5000.0	1000.000	398.0	Н	152.0	15.1
17709.200000	50.57	82.23	31.66	5000.0	1000.000	305.0	н	0.0	14.5

Notes:

<sup>1</sup> Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB)

<sup>2</sup> Correction factors = antenna factor ACF (dB) + cable loss (dB)

<sup>3</sup> 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.

Marked emission at 2.11 GHz is the fundamental emission and is not evaluated against the limits.







	Table 8.6-12: 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)			
18234.250000	40.51		82.23	41.72	5000.0	1000.000	386.0	Н	32.0	15.6			
18234.250000		27.57			5000.0	1000.000	386.0	Н	32.0	15.6			
18437.350000	40.65		82.23	41.58	5000.0	1000.000	260.0	V	333.0	15.5			
18437.350000		27.13			5000.0	1000.000	260.0	V	333.0	15.5			
18926.300000		27.66			5000.0	1000.000	176.0	V	150.0	15.9			
18926.300000	40.72		82.23	41.51	5000.0	1000.000	176.0	V	150.0	15.9			
19960.350000		24.98			5000.0	1000.000	281.0	Н	199.0	16.3			
19960.350000	38.43		82.23	43.80	5000.0	1000.000	281.0	Н	199.0	16.3			
20666.750000	41.68		82.23	40.55	5000.0	1000.000	381.0	Н	160.0	18.0			
20666.750000		28.32			5000.0	1000.000	381.0	Н	160.0	18.0			
20756.400000	41.75		82.23	40.48	5000.0	1000.000	284.0	Н	90.0	18.0			
20756.400000		27.83			5000.0	1000.000	284.0	н	90.0	18.0			

Notes: <sup>1</sup> Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB)

<sup>2</sup> Correction factors = antenna factor ACF (dB) + cable loss (dB)





Figure 8.6-13: Radiated	l emissions spectral plot (30 M	Hz - 1 GHz) – Band 66 (2155 MHz)
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Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
112.025000	29.55	84.38	54.83	5000.0	100.000	370.0	V	21.0	18.2
113.642500	30.07	84.38	54.31	5000.0	100.000	398.0	V	353.0	18.4
489.965833	29.76	84.38	54.62	5000.0	100.000	314.0	Н	246.0	26.4
538.674167	31.42	84.38	52.96	5000.0	100.000	100.0	V	0.0	28.2
600.016667	35.99	84.38	48.39	5000.0	100.000	217.0	Н	136.0	29.3
983.943333	40.38	84.38	44.00	5000.0	100.000	400.0	V	0.0	35.5

Notes:

<sup>1</sup> Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB)

<sup>2</sup> Correction factors = antenna factor ACF (dB) + cable loss (dB)





Figure 8.6-14: Radiated emissions spectral plot (1 GHz - 18 GHz) – Band 66 (2155 MHz)

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2401.766667	45.00	82.23	37.23	5000.0	1000.000	270.0	V	185.0	-10.0
4309.900000	59.59	82.23	22.64	5000.0	1000.000	210.0	V	21.0	-3.5
16816.166667	50.08	82.23	32.15	5000.0	1000.000	126.0	Н	110.0	14.2
16905.033333	48.95	82.23	33.28	5000.0	1000.000	341.0	V	224.0	12.6
17054.400000	49.36	82.23	32.87	5000.0	1000.000	134.0	V	268.0	12.6
17715.766667	50.12	82.23	32.11	5000.0	1000.000	100.0	н	0.0	14.5

Notes:

<sup>1</sup> Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB) <sup>2</sup> Correction factors = antenna factor ACF (dB) + cable loss (dB)

<sup>3</sup> 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.

Marked emission at 2.15 GHz is the fundamental emission and is not evaluated against the limits.







Figure 8.6-15: Radiated emissions spectral plot (18 GHz - 22 GHz) - Band 66 (2155 MHz)

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)
18085.200000		26.44			5000.0	1000.000	287.0	Н	113.0	15.7
18085.200000	40.04		82.23	42.19	5000.0	1000.000	287.0	Н	113.0	15.7
18930.950000		27.33			5000.0	1000.000	112.0	V	306.0	15.9
18930.950000	40.50		82.23	41.73	5000.0	1000.000	112.0	V	306.0	15.9
19380.200000		28.05			5000.0	1000.000	196.0	V	0.0	16.6
19380.200000	41.52		82.23	40.71	5000.0	1000.000	196.0	V	0.0	16.6
20061.900000		28.02			5000.0	1000.000	400.0	н	357.0	16.7
20061.900000	41.00		82.23	41.23	5000.0	1000.000	400.0	Н	357.0	16.7
20654.500000		28.05			5000.0	1000.000	203.0	Н	161.0	17.9
20654.500000	41.62		82.23	40.61	5000.0	1000.000	203.0	Н	161.0	17.9
20728.050000		28.02			5000.0	1000.000	206.0	V	56.0	18.3
20728.050000	41.00		82.23	41.23	5000.0	1000.000	206.0	V	56.0	18.3

Table 8.6-15: Radiated emissions results

<sup>1</sup> Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB)

<sup>2</sup> Correction factors = antenna factor ACF (dB) + cable loss (dB)





Figure 8.6-16: Radiated emissions spectral plot (30 MHz - 1 GHz) – Band 66 (2200 MHz)

Table 8.6-16: Radiated emissions results

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
675.321667	34.38	84.38	50.00	5000.0	100.000	190.0	Н	22.0	30.1

Notes:

<sup>1</sup> Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB)

<sup>2</sup> Correction factors = antenna factor ACF (dB) + cable loss (dB)





Figure 8.6-17: Radiated emissions spectral plot (1 GHz - 18 GHz) – Band 66 (2200 MHz)

Table 8.6-17: Radiated emissions results

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4398.133333	54.38	82.23	27.85	5000.0	1000.000	195.0	V	11.0	-3.1
12116.900000	45.32	82.23	36.91	5000.0	1000.000	400.0	V	71.0	6.6
13756.666667	46.91	82.23	35.32	5000.0	1000.000	292.0	V	265.0	9.9
16311.733333	50.18	82.23	32.05	5000.0	1000.000	388.0	V	302.0	13.4
16678.366667	50.98	82.23	31.25	5000.0	1000.000	234.0	V	249.0	14.4
17197.400000	50.52	82.23	31.71	5000.0	1000.000	276.0	н	260.0	14.9

Notes:

<sup>1</sup> Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB) <sup>2</sup> Correction factors = antenna factor ACF (dB) + cable loss (dB)

<sup>3</sup> 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.

Marked emission at 2.20 GHz is the fundamental emission and is not evaluated against the limits.







Figure 8.6-18: Radiated emissions s	nectral plot (1	18 GHz - 22 GHz	) – Band 66 (	(2200 MHz)
igure olo 10. Hadiatea enhosiono s		20 0112 22 0112	Duna oo	2200 101112)

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBμV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
18144.550000		27.10			5000.0	1000.000	329.0	V	44.0
18144.550000	40.63		82.23	41.60	5000.0	1000.000	329.0	V	44.0
18726.650000		27.22			5000.0	1000.000	400.0	н	320.0
18726.650000	40.20		82.23	42.03	5000.0	1000.000	400.0	н	320.0

	18775.850000		25.71			5000.0	1000.000	114.0	Н	276.0	15.9
	18775.850000	38.89		82.23	43.34	5000.0	1000.000	114.0	Н	276.0	15.9
	19340.300000		27.61			5000.0	1000.000	293.0	V	316.0	16.7
	19340.300000	41.31		82.23	40.92	5000.0	1000.000	293.0	V	316.0	16.7
	19981.000000	40.19		82.23	42.04	5000.0	1000.000	152.0	Н	32.0	16.4
	19981.000000		27.26			5000.0	1000.000	152.0	Н	32.0	16.4
	20685.850000	42.05		82.23	40.18	5000.0	1000.000	170.0	Н	87.0	18.2
	20685.850000		28.45			5000.0	1000.000	170.0	Н	87.0	18.2
Notes: <sup>1</sup> Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB)											

<sup>1</sup> Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB)

<sup>2</sup> Correction factors = antenna factor ACF (dB) + cable loss (dB)

<sup>3</sup> 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.

#### End of test report

Corr.

(dB/m)

15.6

15.6

15.9

15.9