

Full Spectrum

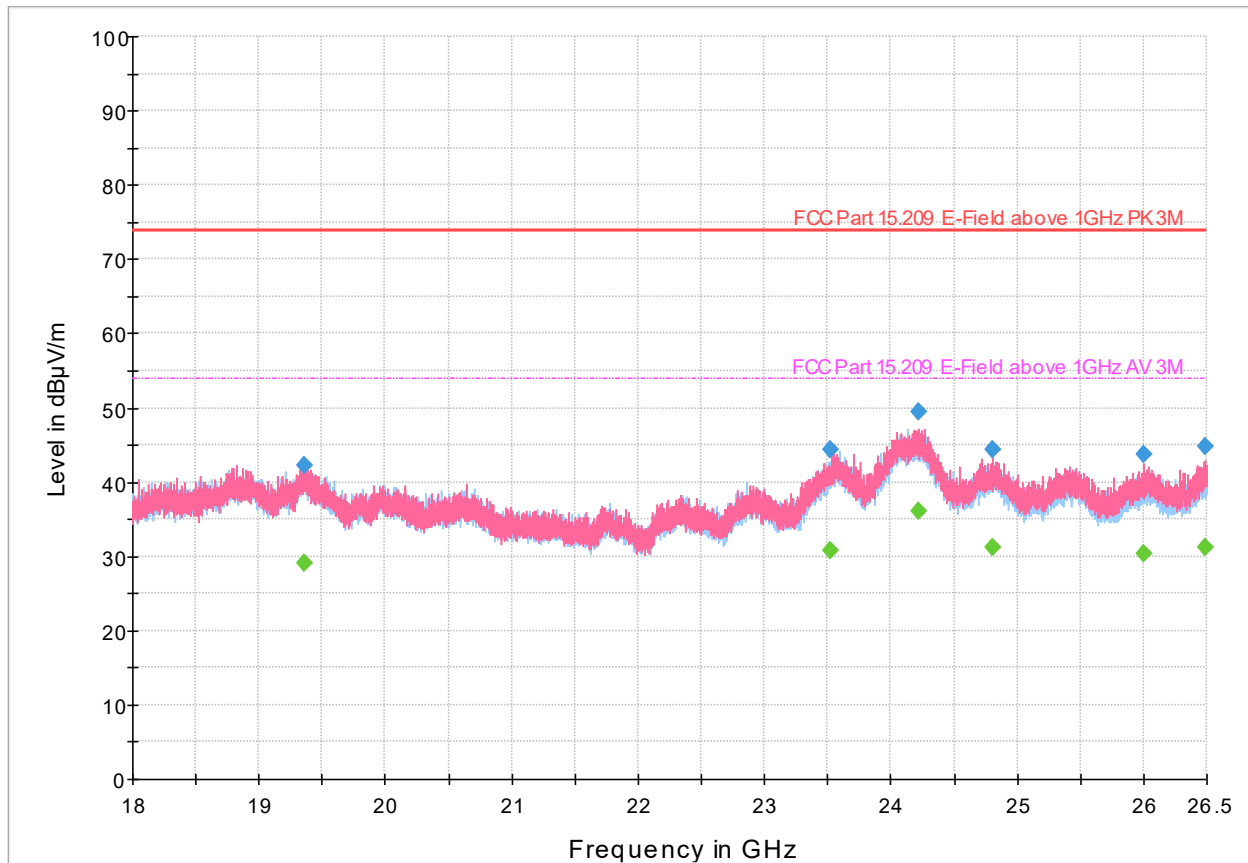


Figure 8.10-60: Radiated emissions spectral plot (18 GHz - 26.5 GHz), 5755 MHz operation

Table 8.10-60: 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)
19354.150000	42.15	---	73.90	31.75	5000.0	1000.000	391.0	V	280.0	16.7
19354.150000	---	29.00	53.90	24.90	5000.0	1000.000	391.0	V	280.0	16.7
23527.018750	44.31	---	73.90	29.59	5000.0	1000.000	357.0	H	346.0	23.4
23527.018750	---	30.82	53.90	23.08	5000.0	1000.000	357.0	H	346.0	23.4
24219.800000	---	36.01	53.90	17.89	5000.0	1000.000	400.0	V	11.0	27.0
24219.800000	49.51	---	73.90	24.39	5000.0	1000.000	400.0	V	11.0	27.0
24807.206250	---	31.14	53.90	22.76	5000.0	1000.000	311.0	V	0.0	22.3
24807.206250	44.42	---	73.90	29.48	5000.0	1000.000	311.0	V	0.0	22.3
26002.168750	---	30.37	53.90	23.53	5000.0	1000.000	130.0	V	257.0	21.8
26002.168750	43.75	---	73.90	30.15	5000.0	1000.000	130.0	V	257.0	21.8
26487.500000	---	31.26	53.90	22.64	5000.0	1000.000	292.0	V	222.0	23.4
26487.500000	44.83	---	73.90	29.07	5000.0	1000.000	292.0	V	222.0	23.4

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.

Results show compliance with 68.23 dBμV/m (at 3m) limit (-27 dBm/MHz)

Full Spectrum

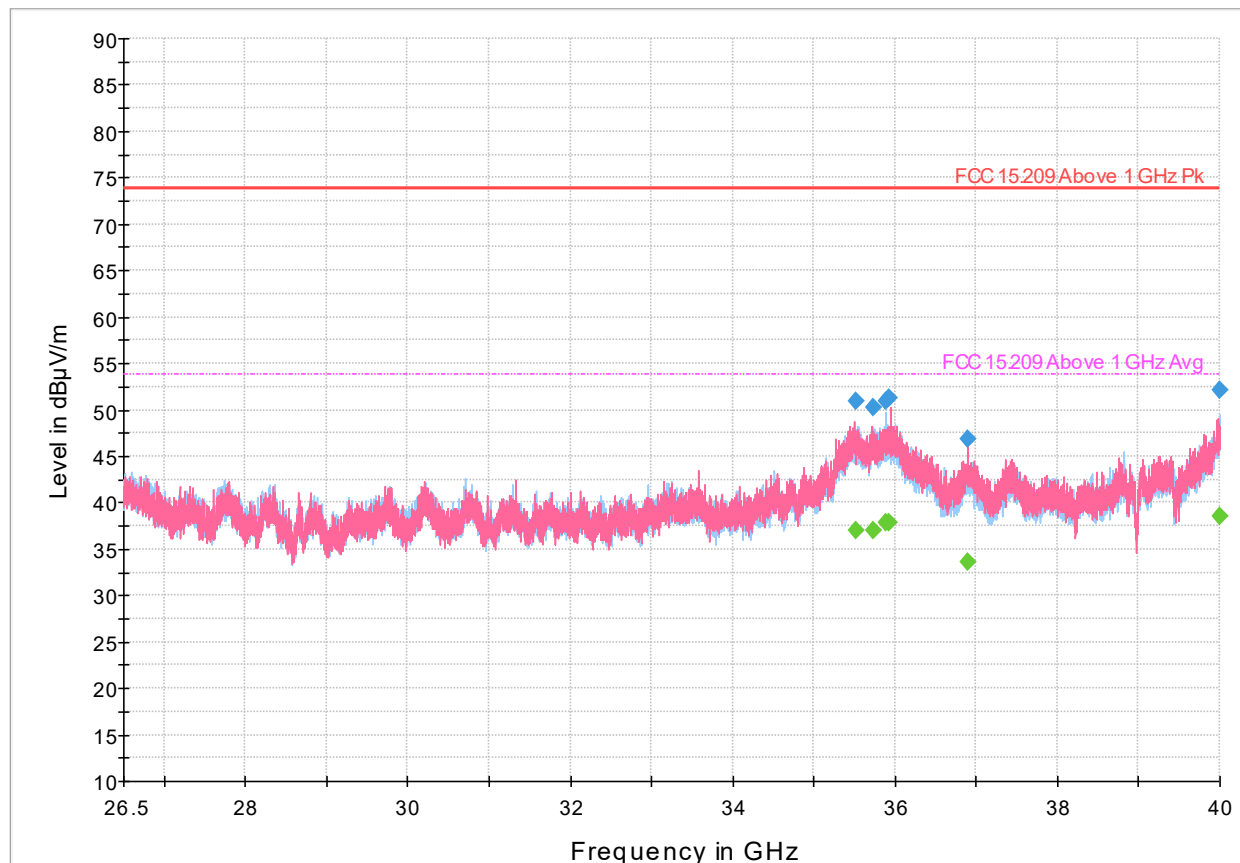


Figure 8.10-61: Radiated emissions spectral plot (26.5 GHz - 40 GHz), 5755 MHz operation

Table 8.10-61: 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)
35511.393750	50.99	---	73.90	22.91	5000.0	1000.000	164.0	V	234.0	19.5
35511.393750	---	37.09	53.90	16.81	5000.0	1000.000	164.0	V	234.0	19.5
35726.606250	50.32	---	73.90	23.58	5000.0	1000.000	177.0	V	82.0	20.3
35726.606250	---	37.05	53.90	16.85	5000.0	1000.000	177.0	V	82.0	20.3
35881.656250	51.00	---	73.90	22.90	5000.0	1000.000	179.0	H	319.0	20.7
35881.656250	---	37.83	53.90	16.07	5000.0	1000.000	179.0	H	319.0	20.7
35933.931250	51.31	---	73.90	22.59	5000.0	1000.000	203.0	V	65.0	20.8
35933.931250	---	37.83	53.90	16.07	5000.0	1000.000	203.0	V	65.0	20.8
36898.393750	---	33.69	53.90	20.21	5000.0	1000.000	178.0	V	2.0	16.5
36898.393750	46.86	---	73.90	27.04	5000.0	1000.000	178.0	V	2.0	16.5
39995.500000	---	38.60	53.90	15.30	5000.0	1000.000	118.0	H	299.0	21.1
39995.500000	52.07	---	73.90	21.83	5000.0	1000.000	118.0	H	299.0	21.1

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.

Results show compliance with 68.23 dBμV/m (at 3m) limit (-27 dBm/MHz)

Full Spectrum

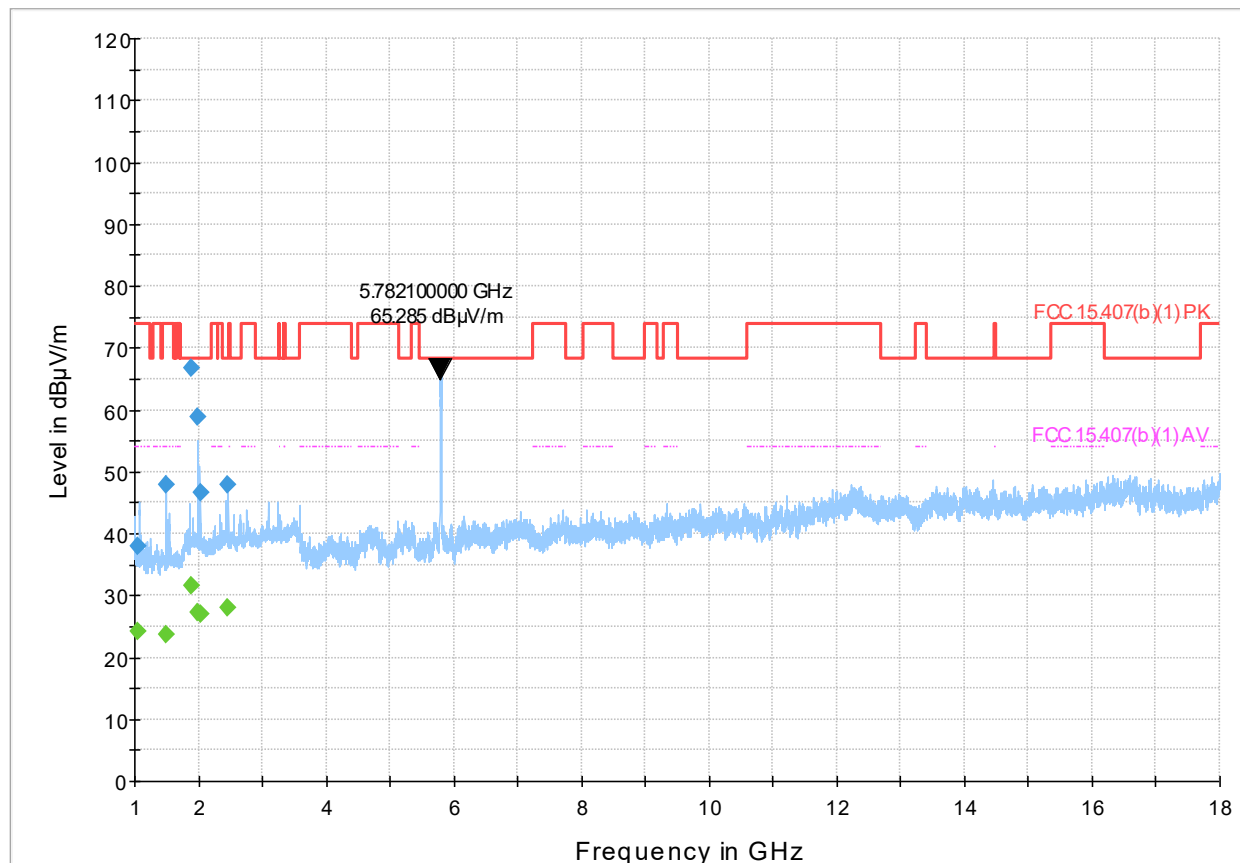


Figure 8.10-62: Radiated emissions spectral plot (1 GHz - 18 GHz), 5795 MHz operation

Table 8.10-62: 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)
1055.800000	37.92	---	73.98	36.06	5000.0	1000.000	349.0	H	331.0	-10.9
1055.800000	---	24.12	53.98	29.86	5000.0	1000.000	349.0	H	331.0	-10.9
1495.950000	47.85	---	73.98	26.13	5000.0	1000.000	169.0	H	108.0	-10.0
1495.950000	---	23.73	53.98	30.25	5000.0	1000.000	169.0	H	108.0	-10.0
1880.050000	66.78	---	68.23	1.45	5000.0	1000.000	221.0	H	245.0	-6.1
1880.050000	---	31.56	---	---	5000.0	1000.000	221.0	H	245.0	-6.1
1992.050000	---	27.18	---	---	5000.0	1000.000	106.0	H	1.0	-6.0
1992.050000	58.91	---	68.23	9.32	5000.0	1000.000	106.0	H	1.0	-6.0
2026.000000	46.66	---	68.23	21.57	5000.0	1000.000	159.0	V	184.0	-6.0
2026.000000	---	27.09	---	---	5000.0	1000.000	159.0	V	184.0	-6.0
2462.550000	---	27.91	---	---	5000.0	1000.000	359.0	H	315.0	-4.0
2462.550000	47.90	---	68.23	20.33	5000.0	1000.000	359.0	H	315.0	-4.0

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.

A notch filter was used to suppress the fundamental emission to prevent overloading of measurement equipment.

Marked emission at 5782 MHz is the transmitter fundamental emission and is not evaluated against the limits.

Full Spectrum

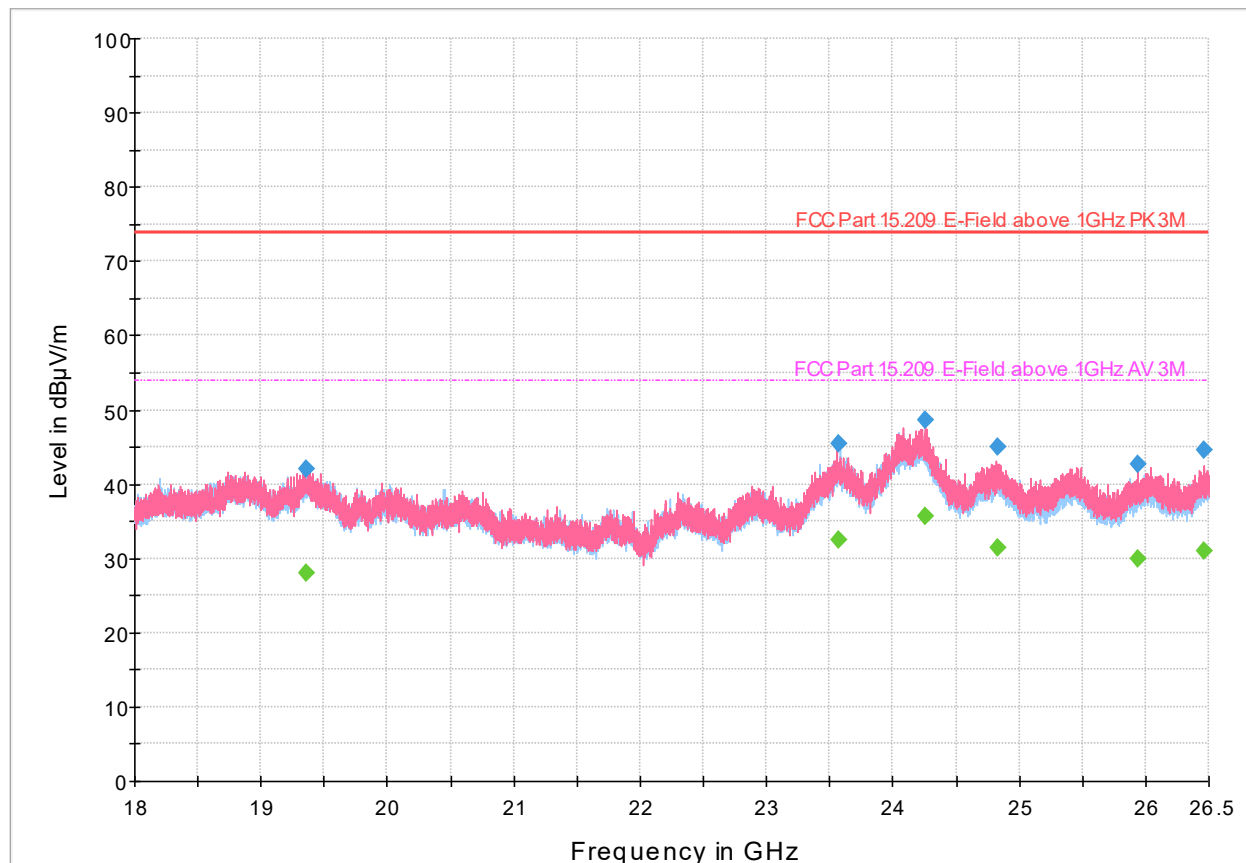


Figure 8.10-63: Radiated emissions spectral plot (18 GHz - 26.5 GHz), 5795 MHz operation

Table 8.10-63: 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)
19356.787500	---	28.06	53.90	25.84	5000.0	1000.000	389.0	H	0.0	16.7
19356.787500	42.05	---	73.90	31.85	5000.0	1000.000	389.0	H	0.0	16.7
23566.431250	45.51	---	73.90	28.39	5000.0	1000.000	378.0	V	39.0	23.8
23566.431250	---	32.41	53.90	21.49	5000.0	1000.000	378.0	V	39.0	23.8
24254.037500	48.69	---	73.90	25.21	5000.0	1000.000	400.0	V	0.0	26.9
24254.037500	---	35.62	53.90	18.28	5000.0	1000.000	400.0	V	0.0	26.9
24828.012500	45.11	---	73.90	28.79	5000.0	1000.000	331.0	V	314.0	22.3
24828.012500	---	31.44	53.90	22.46	5000.0	1000.000	331.0	V	314.0	22.3
25943.581250	---	29.89	53.90	24.01	5000.0	1000.000	350.0	V	52.0	21.6
25943.581250	42.77	---	73.90	31.13	5000.0	1000.000	350.0	V	52.0	21.6
26466.062500	44.54	---	73.90	29.36	5000.0	1000.000	350.0	V	210.0	23.3
26466.062500	---	30.89	53.90	23.01	5000.0	1000.000	350.0	V	210.0	23.3

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.

Results show compliance with 68.23 dBμV/m (at 3m) limit (-27 dBm/MHz)

Full Spectrum

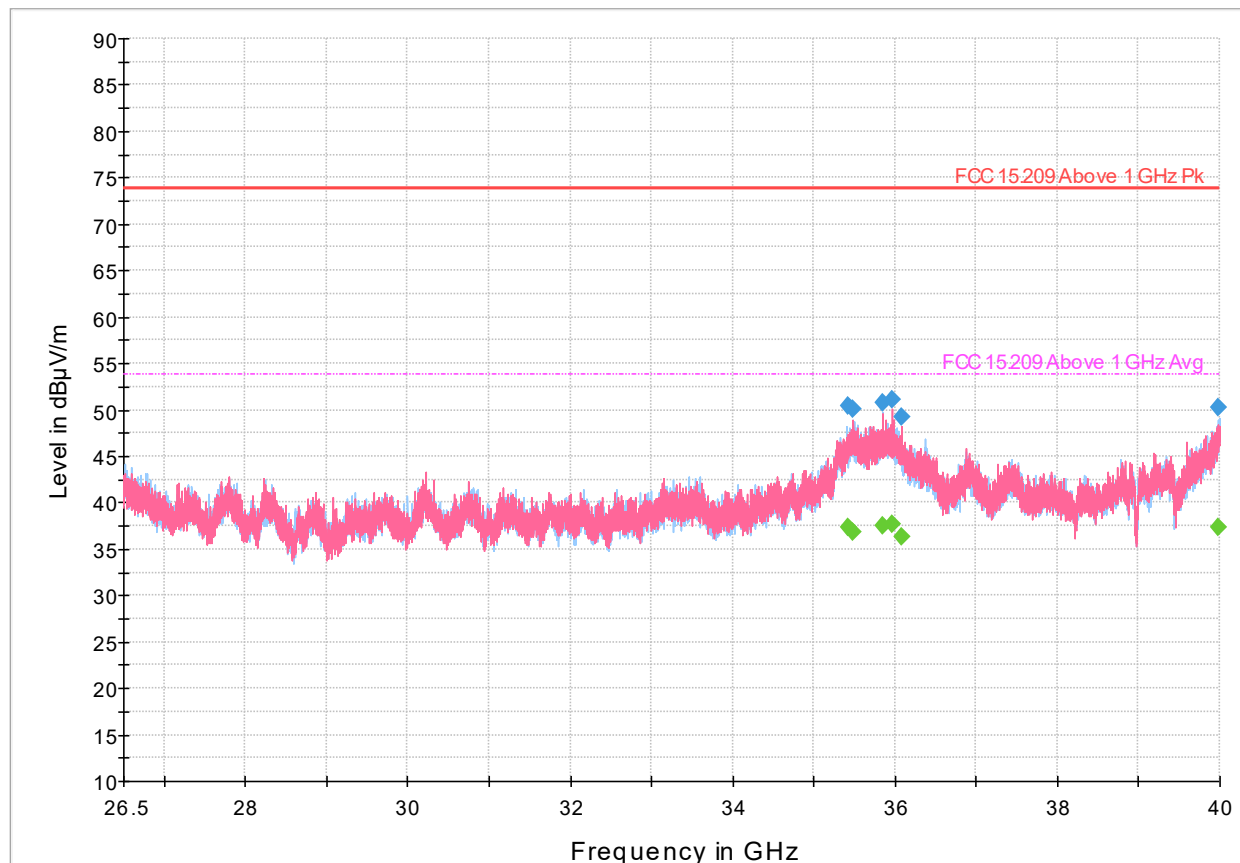


Figure 8.10-64: Radiated emissions spectral plot (26.5 GHz - 40 GHz), 5795 MHz operation

Table 8.10-64: 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)
35424.843750	---	37.38	53.90	16.52	5000.0	1000.000	132.0	H	8.0	18.8
35424.843750	50.50	---	73.90	23.40	5000.0	1000.000	132.0	H	8.0	18.8
35474.387500	---	36.90	53.90	17.00	5000.0	1000.000	176.0	H	318.0	19.2
35474.387500	50.12	---	73.90	23.78	5000.0	1000.000	176.0	H	318.0	19.2
35848.468750	50.72	---	73.90	23.18	5000.0	1000.000	135.0	V	30.0	20.7
35848.468750	---	37.51	53.90	16.39	5000.0	1000.000	135.0	V	30.0	20.7
35957.968750	---	37.71	53.90	16.19	5000.0	1000.000	119.0	V	10.0	20.9
35957.968750	51.09	---	73.90	22.81	5000.0	1000.000	119.0	V	10.0	20.9
36087.062500	---	36.27	53.90	17.63	5000.0	1000.000	160.0	V	358.0	20.2
36087.062500	49.29	---	73.90	24.61	5000.0	1000.000	160.0	V	358.0	20.2
39974.050000	50.22	---	73.90	23.68	5000.0	1000.000	223.0	H	239.0	20.8
39974.050000	---	37.32	53.90	16.58	5000.0	1000.000	223.0	H	239.0	20.8

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.

Results show compliance with 68.23 dBμV/m (at 3m) limit (-27 dBm/MHz)

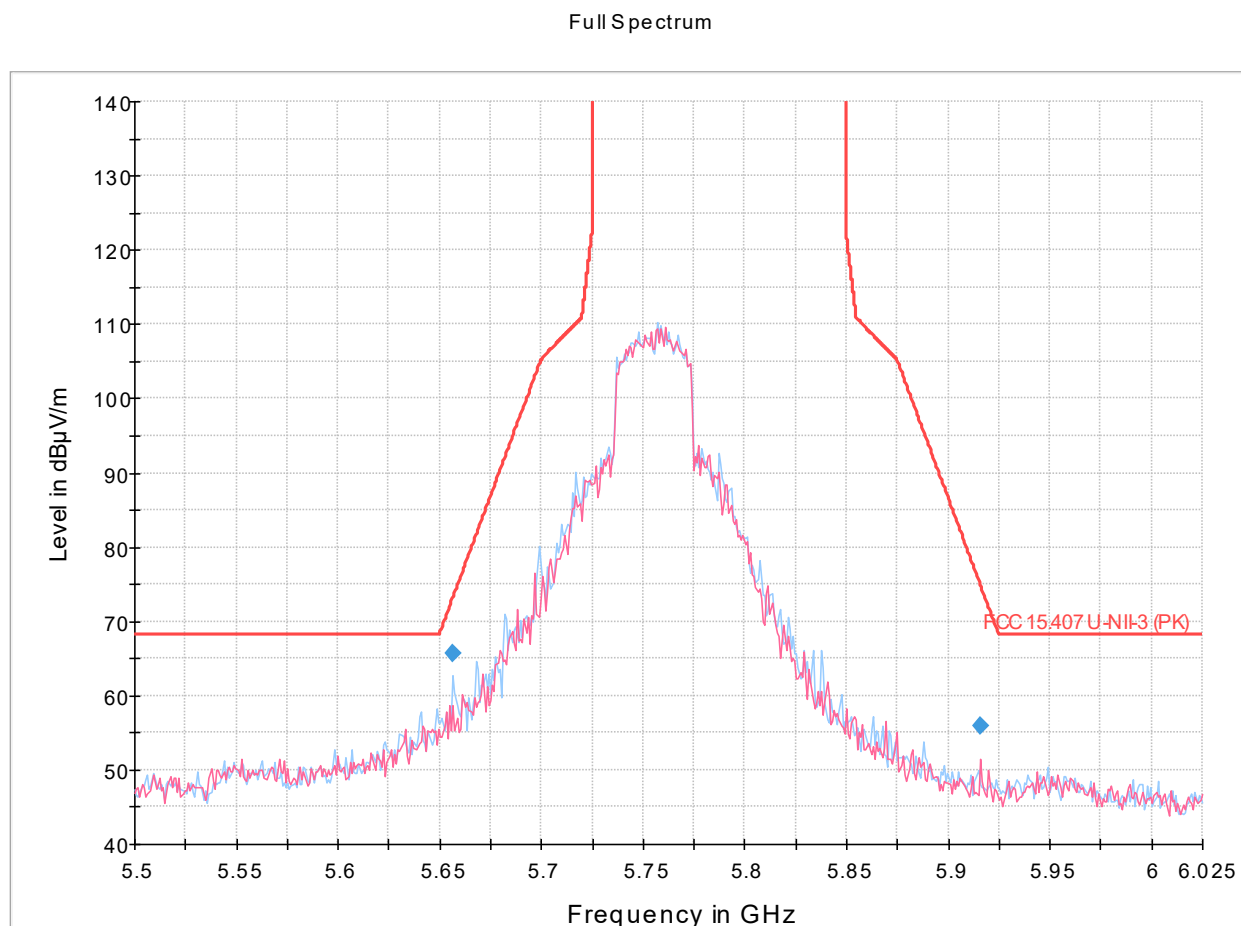


Figure 8.10-65: Radiated emissions spectral plot (5.5 GHz - 6.025 GHz), 5755 MHz operation

Table 8.10-65: 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)
5656.625000	65.71	73.13	7.42	5000.0	1000.000	176.0	V	29.0	3.3
5915.625000	55.90	75.17	19.27	5000.0	1000.000	234.0	H	11.0	3.9

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

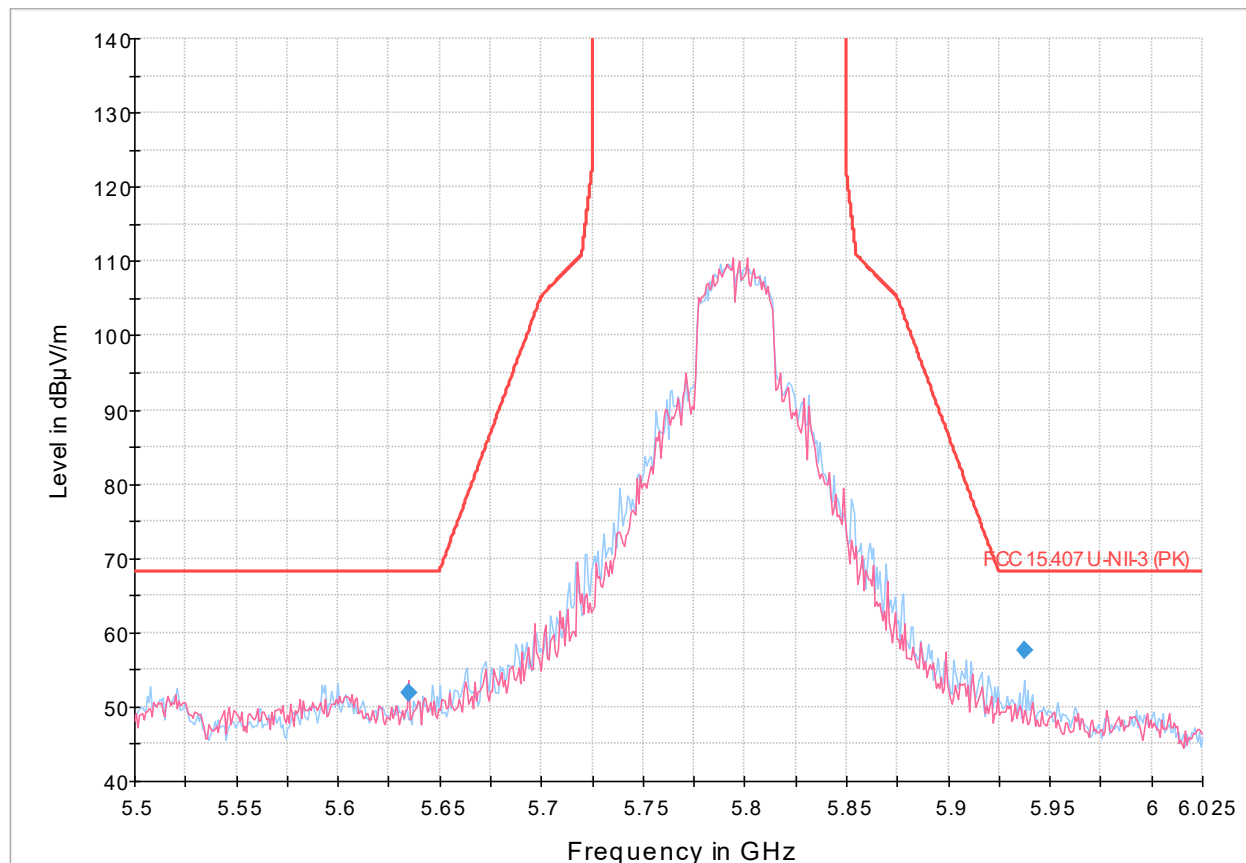


Figure 8.10-66: Radiated emissions spectral plot (5.5 GHz - 6.025 GHz)

Table 8.10-66: 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)
5634.750000	51.98	68.23	16.25	5000.0	1000.000	205.0	V	318.0	3.4
5937.500000	57.53	68.23	10.70	5000.0	1000.000	175.0	V	31.0	4.2

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.

IEEE 802.11n/ac (V)HT80 (CDD) mode

Note: Spurious emissions limit of -27 dBm/MHz corresponds to field strength at 3m measurement distance of 68.23 dBμV/m. Emissions in restricted bands must meet the limits of FCC 15.209.

Full Spectrum

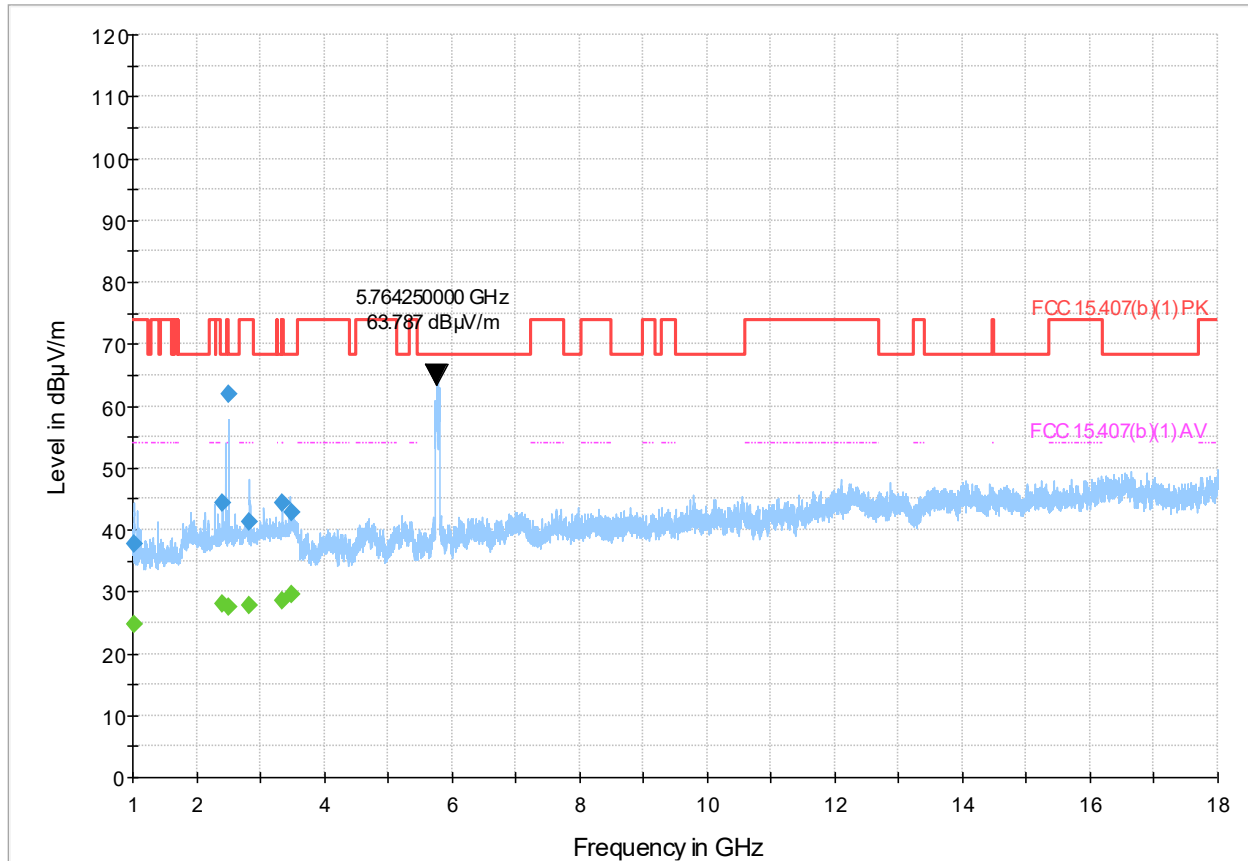


Figure 8.10-67: Radiated emissions spectral plot (1 GHz - 18 GHz), 5775 MHz operation

Table 8.10-67: 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)
1029.100000	---	24.66	53.98	29.32	5000.0	1000.000	355.0	H	341.0	-11.0
1029.100000	37.64	---	73.98	36.34	5000.0	1000.000	355.0	H	341.0	-11.0
2404.150000	---	27.94	---	---	5000.0	1000.000	290.0	H	248.0	-4.2
2404.150000	44.36	---	68.23	23.87	5000.0	1000.000	290.0	H	248.0	-4.2
2497.800000	---	27.60	53.98	26.38	5000.0	1000.000	116.0	H	206.0	-4.0
2497.800000	61.82	---	73.98	12.16	5000.0	1000.000	116.0	H	206.0	-4.0
2833.350000	---	27.76	53.98	26.22	5000.0	1000.000	281.0	V	98.0	-3.1
2833.350000	41.25	---	73.98	32.73	5000.0	1000.000	281.0	V	98.0	-3.1
3339.600000	44.35	---	68.23	23.88	5000.0	1000.000	227.0	V	54.0	-1.5
3339.600000	---	28.56	---	---	5000.0	1000.000	227.0	V	54.0	-1.5
3480.150000	42.75	---	68.23	25.48	5000.0	1000.000	176.0	H	286.0	-0.8
3480.150000	---	29.57	---	---	5000.0	1000.000	176.0	H	286.0	-0.8

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.

A notch filter was used to suppress the fundamental emission to prevent overloading of measurement equipment.

Marked emission at 5764 MHz is the transmitter fundamental emission and is not evaluated against the limits.

Full Spectrum

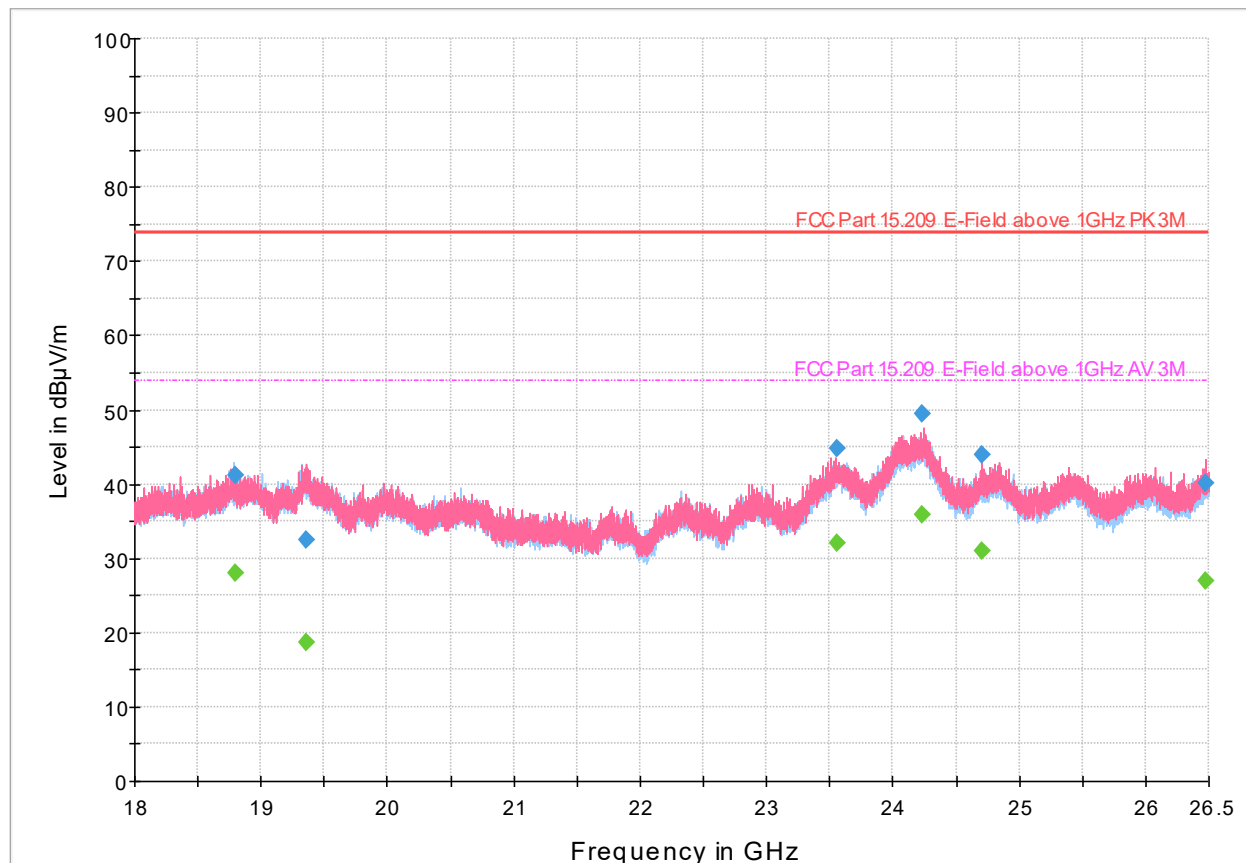


Figure 8.10-68: Radiated emissions spectral plot (18 GHz - 26.5 GHz), 5775 MHz operation

Table 8.10-68: 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)
18800.306250	---	27.99	53.90	25.91	5000.0	1000.000	256.0	H	207.0	15.9
18800.306250	41.28	---	73.90	32.62	5000.0	1000.000	256.0	H	207.0	15.9
19359.950000	---	18.59	53.90	35.31	5000.0	1000.000	180.0	V	163.0	16.7
19359.950000	32.56	---	73.90	41.34	5000.0	1000.000	180.0	V	163.0	16.7
23555.412500	---	32.11	53.90	21.79	5000.0	1000.000	400.0	V	251.0	23.7
23555.412500	44.81	---	73.90	29.09	5000.0	1000.000	400.0	V	251.0	23.7
24233.281250	49.43	---	73.90	24.47	5000.0	1000.000	378.0	V	241.0	27.0
24233.281250	---	35.83	53.90	18.07	5000.0	1000.000	378.0	V	241.0	27.0
24703.012500	---	30.92	53.90	22.98	5000.0	1000.000	191.0	V	38.0	22.4
24703.012500	44.04	---	73.90	29.86	5000.0	1000.000	191.0	V	38.0	22.4
26479.162500	40.11	---	73.90	33.79	5000.0	1000.000	120.0	V	232.0	23.3
26479.162500	---	26.92	53.90	26.98	5000.0	1000.000	120.0	V	232.0	23.3

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.

Results show compliance with 68.23 dBμV/m (at 3m) limit (-27 dBm/MHz)

Full Spectrum

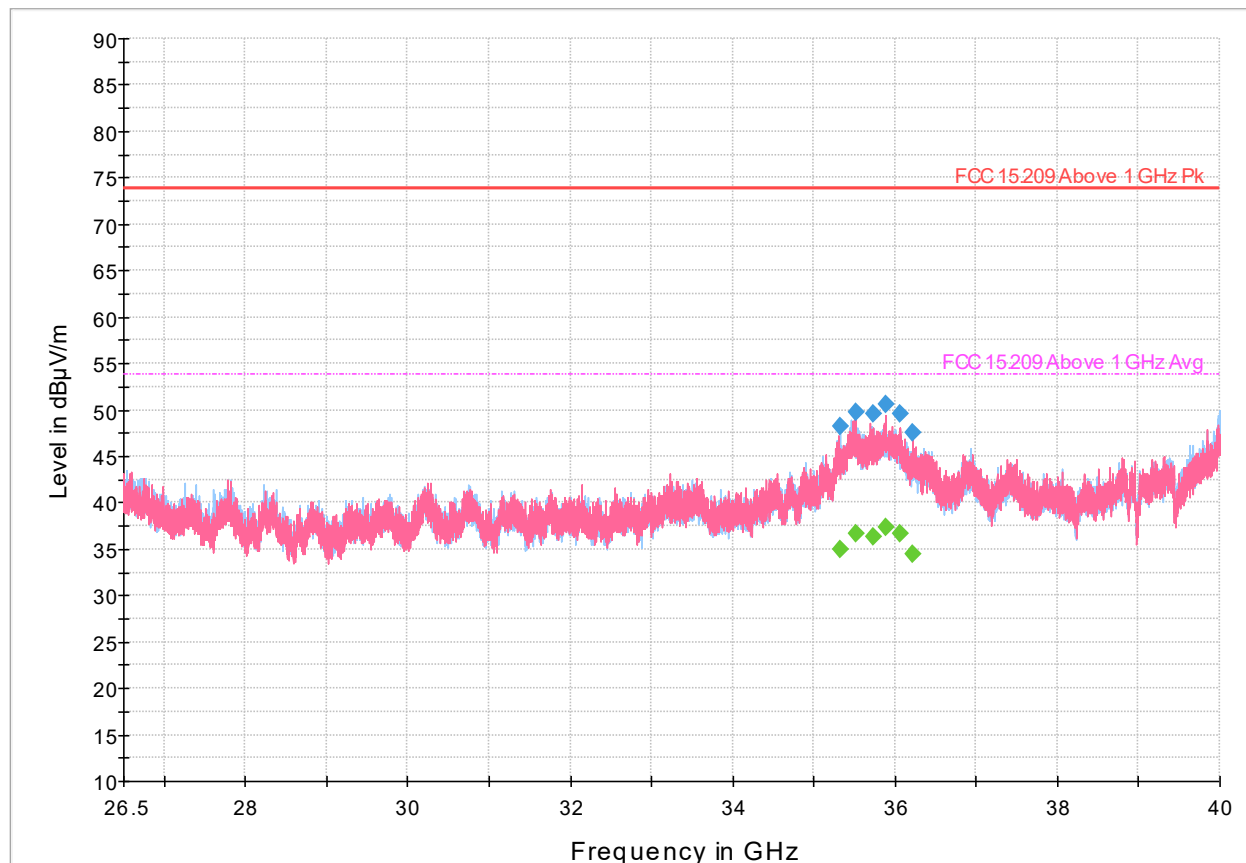


Figure 8.10-69: Radiated emissions spectral plot (26.5 GHz - 40 GHz), 5775 MHz operation

Table 8.10-69: 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)
35327.425000	---	35.02	53.90	18.88	5000.0	1000.000	138.0	H	144.0	17.8
35327.425000	48.13	---	73.90	25.77	5000.0	1000.000	138.0	H	144.0	17.8
35527.075000	49.83	---	73.90	24.07	5000.0	1000.000	140.0	V	22.0	19.6
35527.075000	---	36.61	53.90	17.29	5000.0	1000.000	140.0	V	22.0	19.6
35724.925000	49.65	---	73.90	24.25	5000.0	1000.000	177.0	H	10.0	20.3
35724.925000	---	36.32	53.90	17.58	5000.0	1000.000	177.0	H	10.0	20.3
35885.218750	---	37.29	53.90	16.61	5000.0	1000.000	175.0	V	112.0	20.7
35885.218750	50.63	---	73.90	23.27	5000.0	1000.000	175.0	V	112.0	20.7
36057.662500	---	36.72	53.90	17.18	5000.0	1000.000	128.0	V	142.0	20.4
36057.662500	49.57	---	73.90	24.33	5000.0	1000.000	128.0	V	142.0	20.4
36218.631250	---	34.52	53.90	19.38	5000.0	1000.000	223.0	V	5.0	19.1
36218.631250	47.46	---	73.90	26.44	5000.0	1000.000	223.0	V	5.0	19.1

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

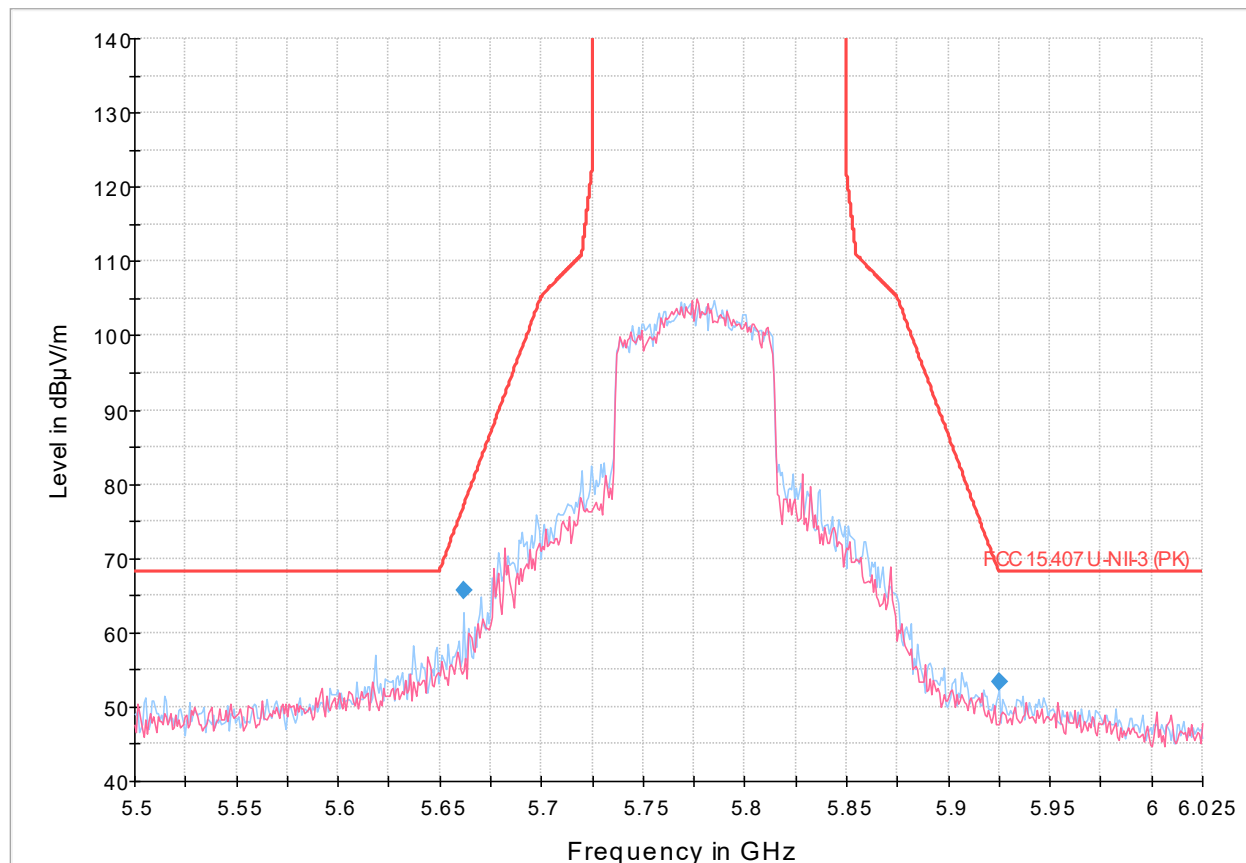


Figure 8.10-70: Radiated emissions spectral plot (5.5 GHz - 6.025 GHz), 5775 MHz operation

Table 8.10-70: 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)
5661.875000	65.68	77.02	11.34	5000.0	1000.000	176.0	V	32.0	3.3
5925.250000	53.34	68.23	14.89	5000.0	1000.000	154.0	H	354.0	4.0

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.

End of test report