



DC Powered – NR (60 MHz) – 2C – 2526 MHz + 2660 MHz (M)

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Angle (°)	Height (cm)	Polarisation	Orientation
*							

Table 13 – 2526 MHz + 2660 MHz, 30 MHz to 1 GHz

* No emissions were detected within 10 dB of the limit.

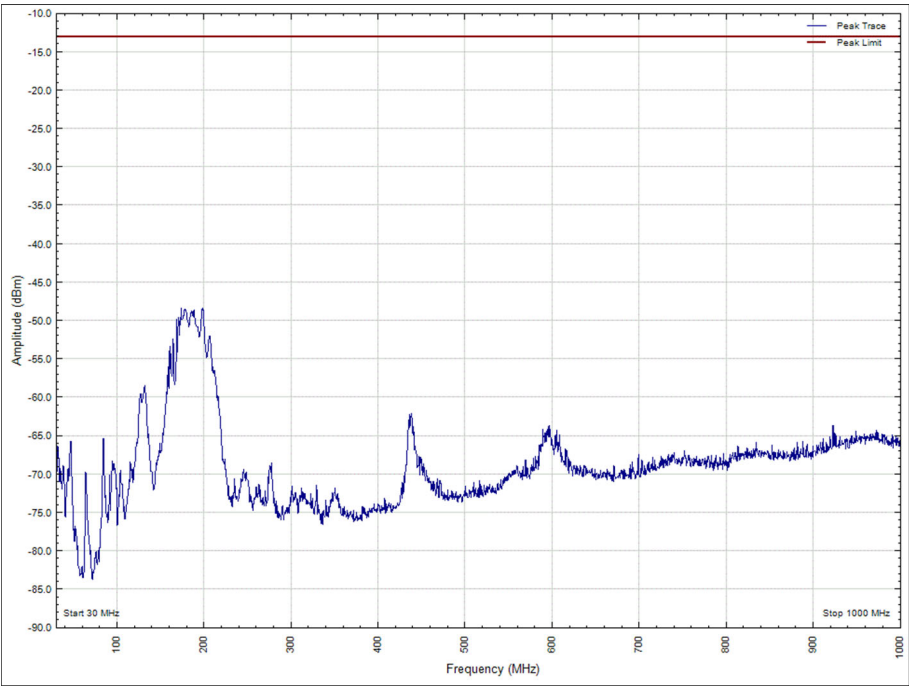


Figure 34 - 2526 MHz + 2660 MHz, 30 MHz to 1 GHz, Horizontal

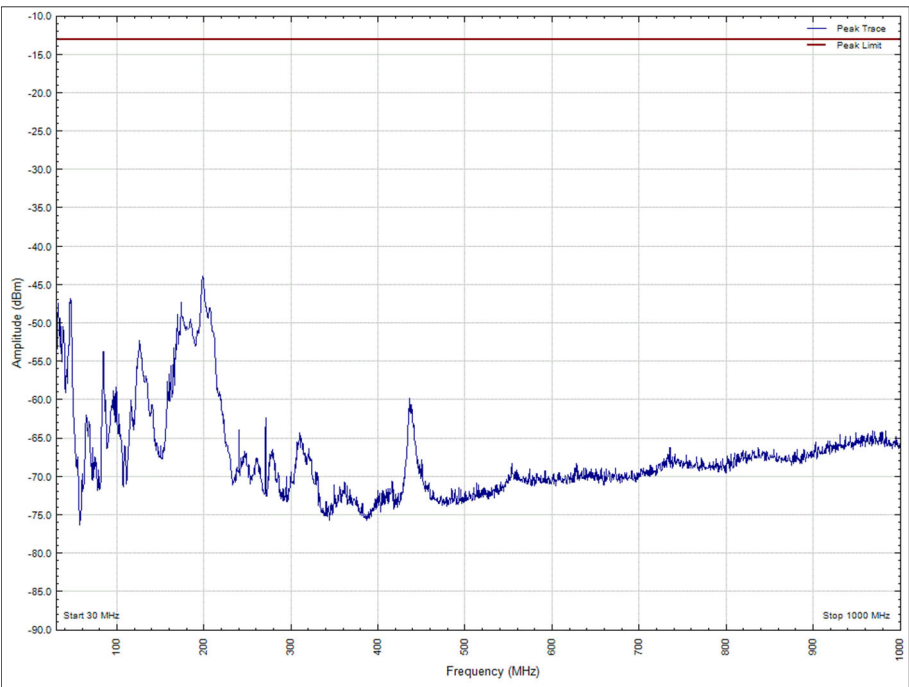


Figure 35 - 2526 MHz + 2660 MHz, 30 MHz to 1 GHz, Vertical



Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Angle (°)	Height (cm)	Polarisation	Orientation
*							

Table 14 – 2526 MHz + 2660 MHz, 1 GHz to 27 GHz

* No emissions were detected within 10 dB of the limit.

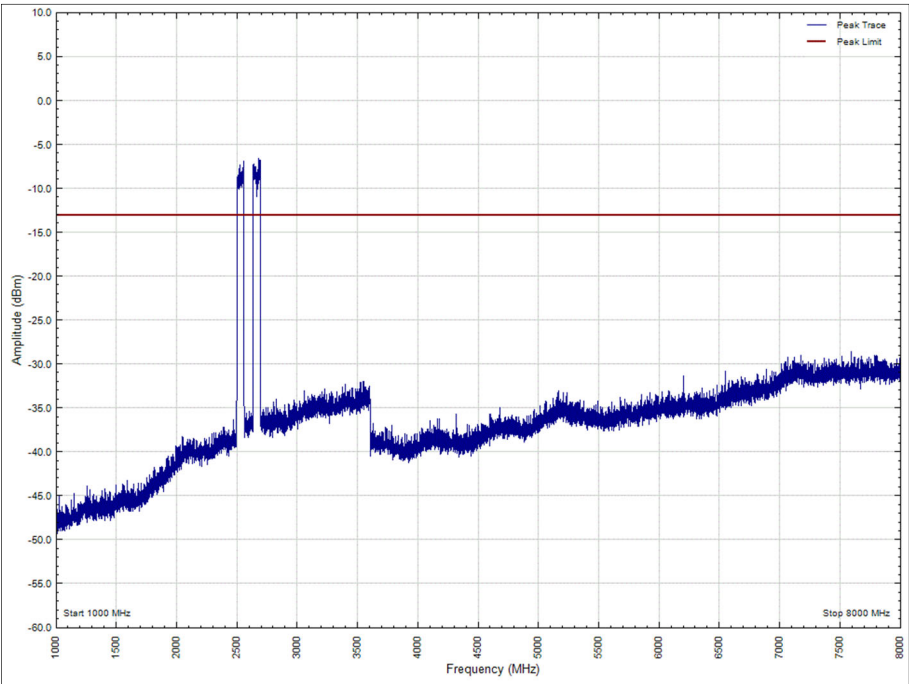


Figure 36 - 2526 MHz + 2660 MHz, 1 GHz to 8 GHz, Horizontal

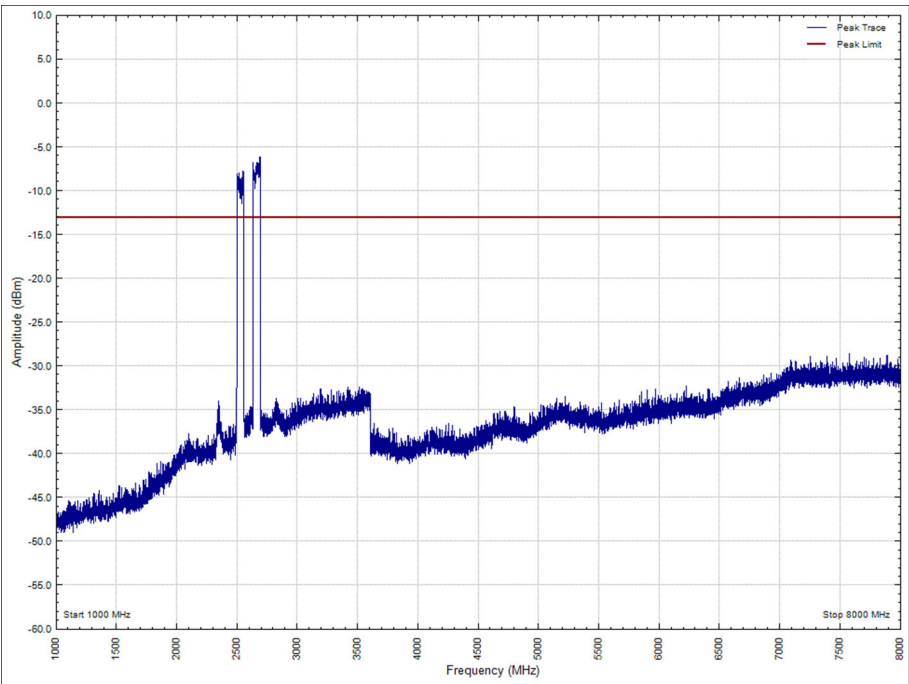


Figure 37 - 2526 MHz + 2660 MHz, 1 GHz to 8 GHz, Vertical

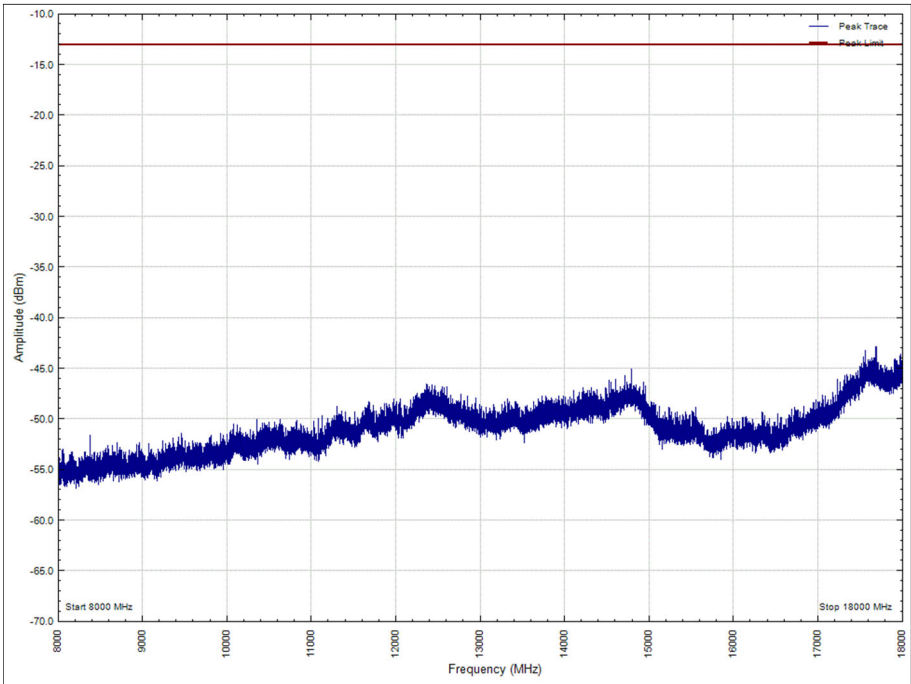


Figure 38 - 2526 MHz + 2660 MHz, 8 GHz to 18 GHz, Horizontal

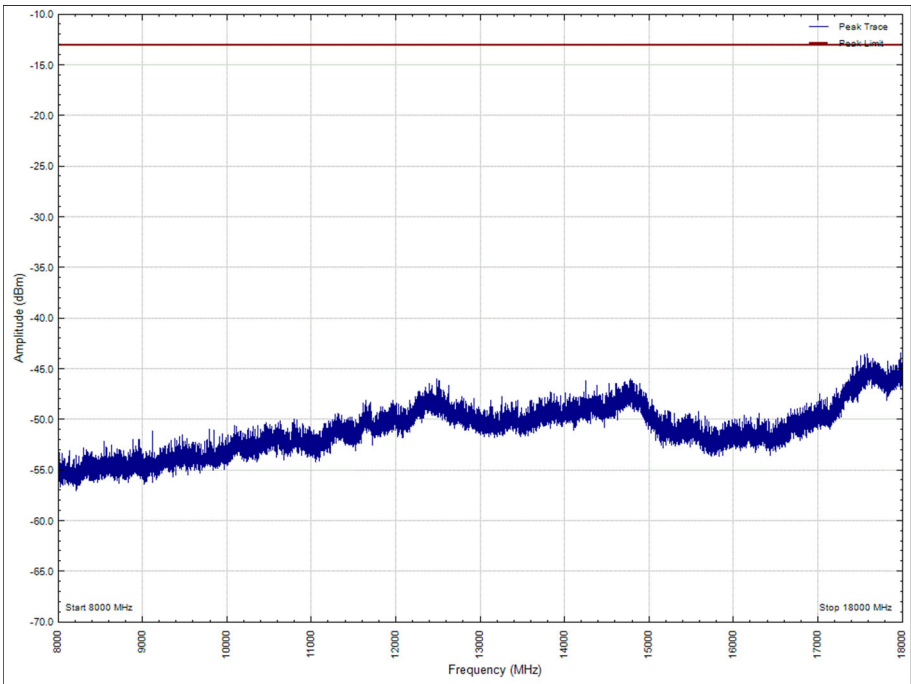


Figure 39 - 2526 MHz + 2660 MHz, 8 GHz to 18 GHz, Vertical

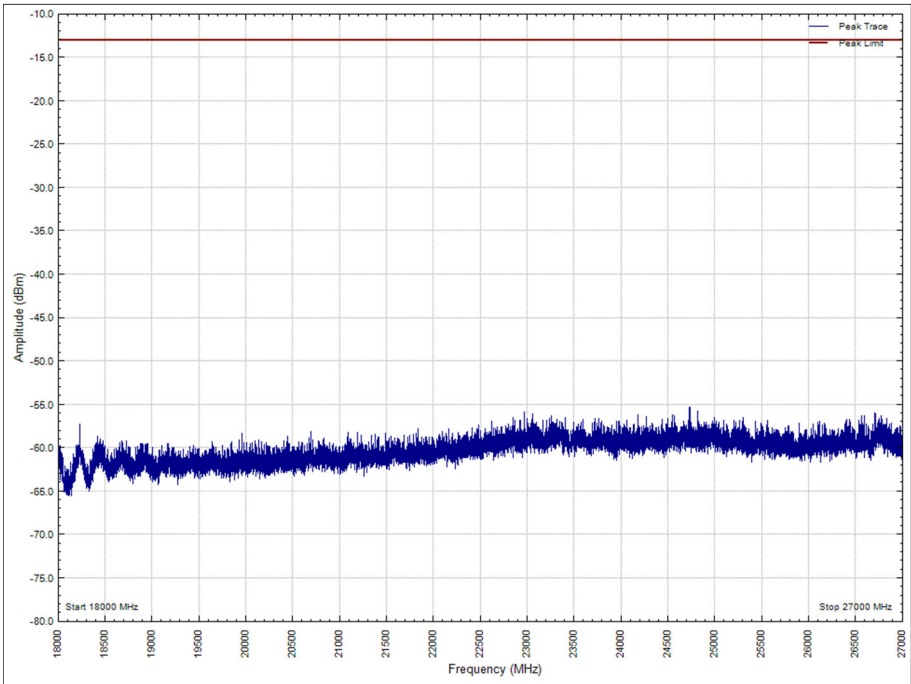


Figure 40 - 2526 MHz + 2660 MHz, 18 GHz to 27 GHz, Horizontal

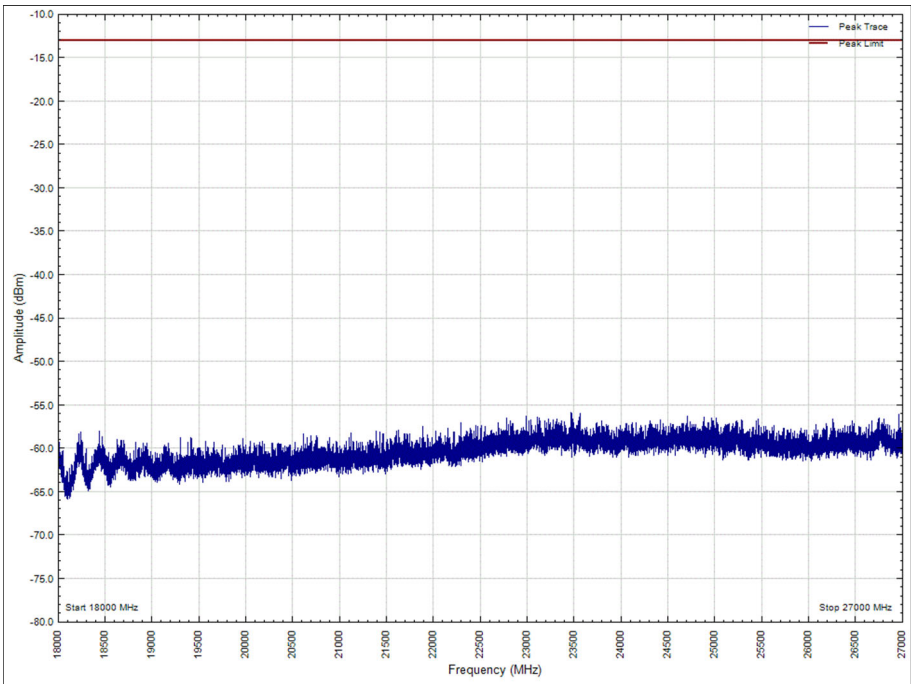


Figure 41 - 2526 MHz + 2660 MHz, 18 GHz to 27 GHz, Vertical

DC Powered - LTE (10 MHz) – 3C - 2501 MHz + 2511 MHz + 2685 MHz (M)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Angle (°)	Height (cm)	Polarisation	Orientation
*							

Table 15 – 2501 MHz + 2511 MHz + 2685 MHz, 30 MHz to 1 GHz

* No emissions were detected within 10 dB of the limit.

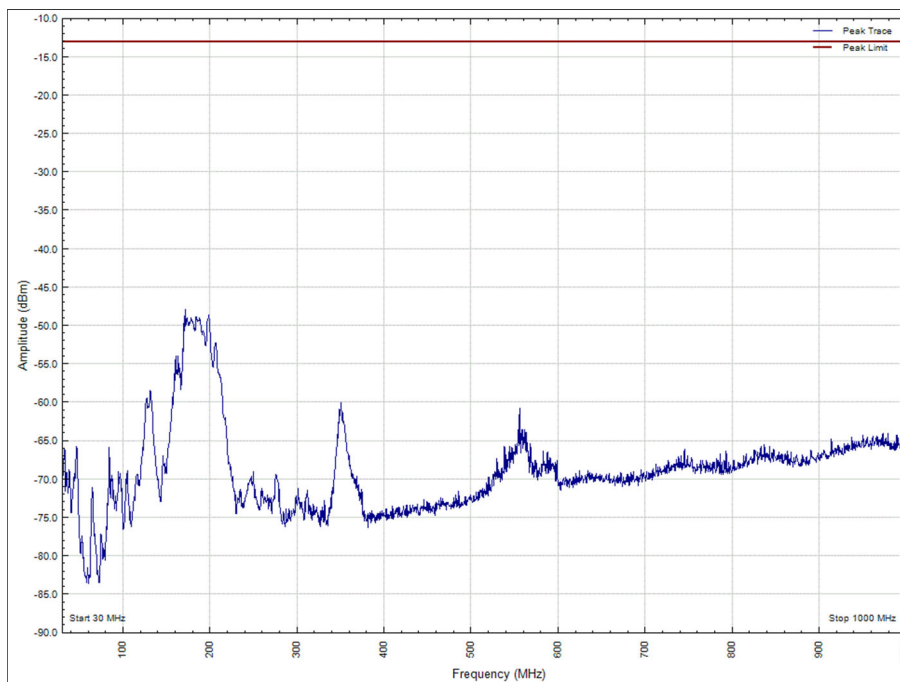


Figure 42 - 2501 MHz + 2511 MHz + 2685 MHz, 30 MHz to 1 GHz, Horizontal

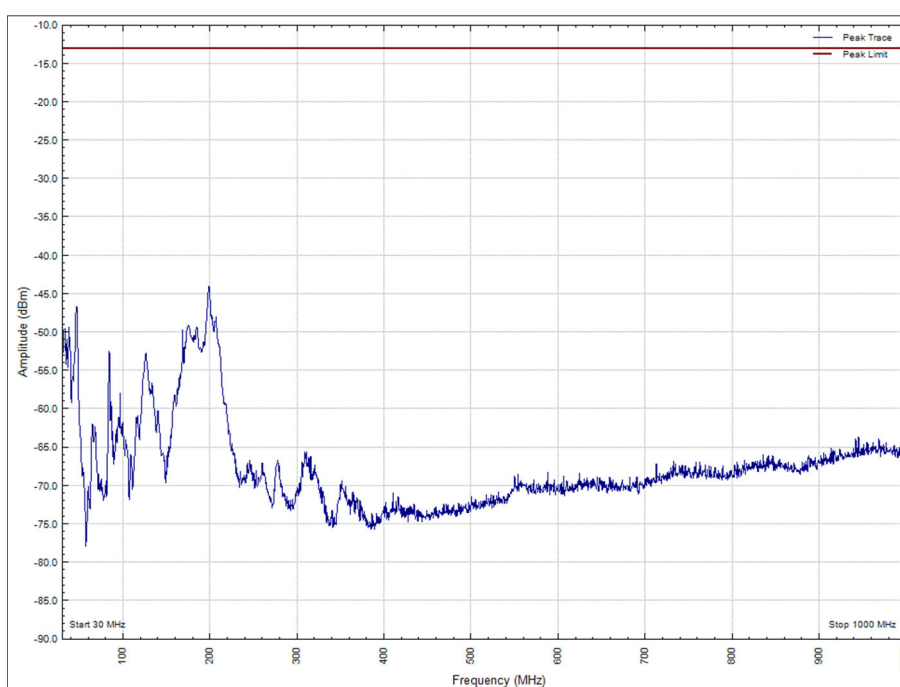


Figure 43 - 2501 MHz + 2511 MHz + 2685 MHz, 30 MHz to 1 GHz, Vertical



Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Angle (°)	Height (cm)	Polarisation	Orientation
*							

Table 16 – 2501 MHz + 2511 MHz + 2685 MHz, 1 GHz to 27 GHz

* No emissions were detected within 10 dB of the limit.

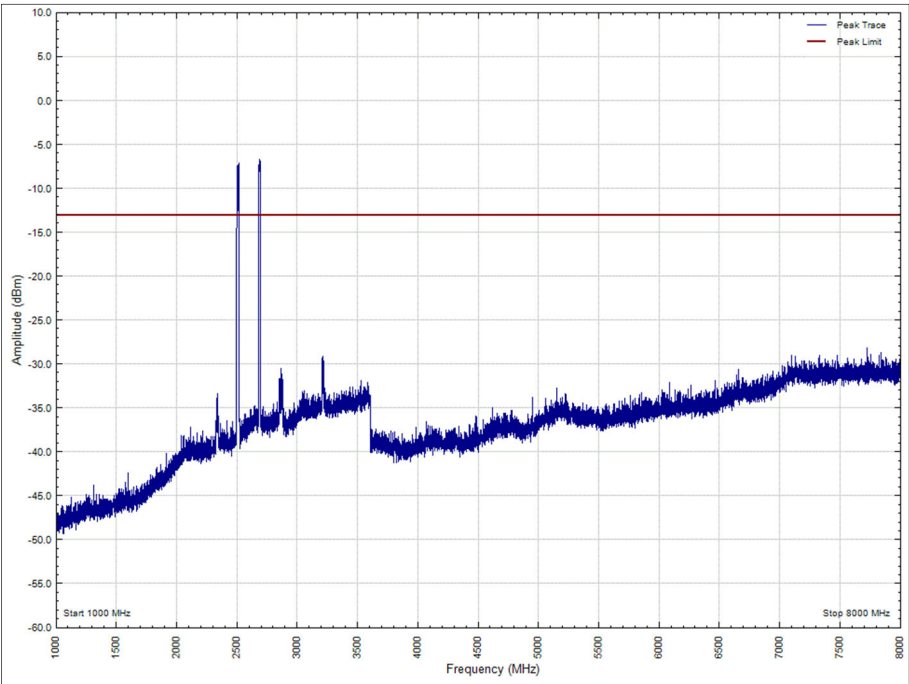


Figure 44 - 2501 MHz + 2511 MHz + 2685 MHz, 1 GHz to 8 GHz, Horizontal

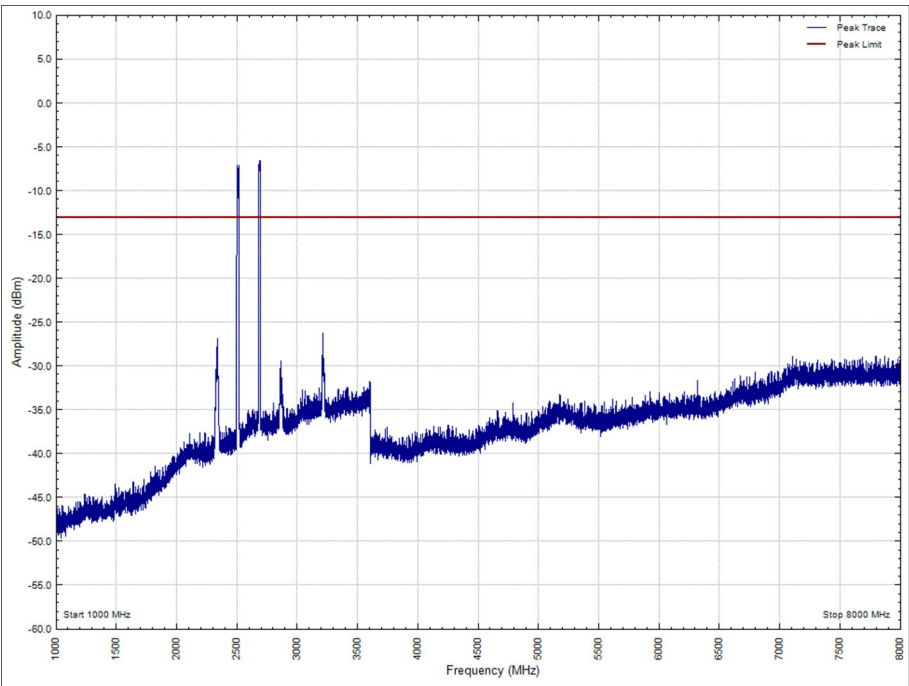


Figure 45 - 2501 MHz + 2511 MHz + 2685 MHz, 1 GHz to 8 GHz, Vertical

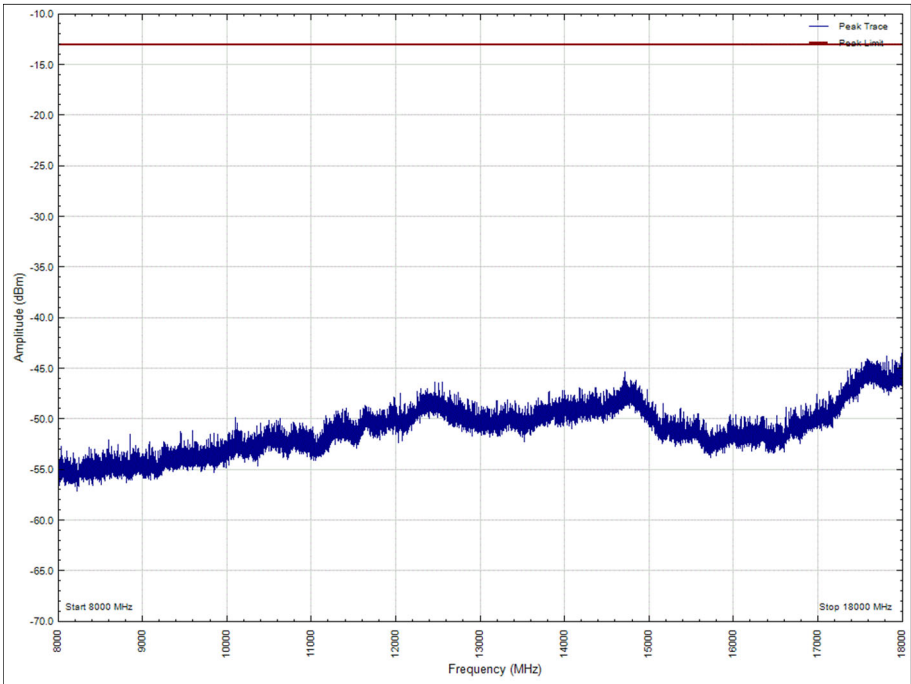


Figure 46 - 2501 MHz + 2511 MHz + 2685 MHz, 8 GHz to 18 GHz, Horizontal

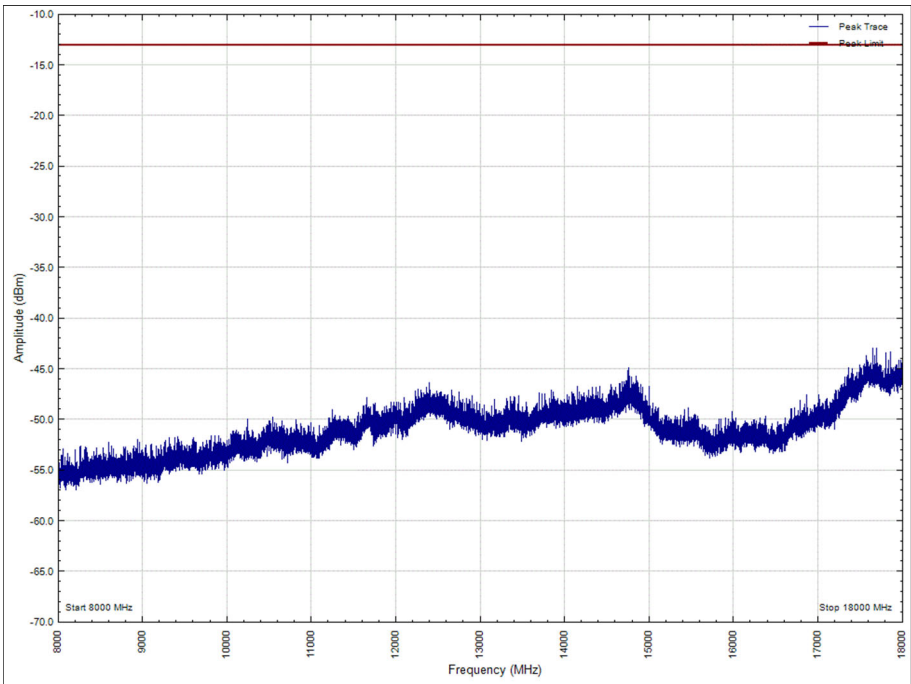


Figure 47 - 2501 MHz + 2511 MHz + 2685 MHz, 8 GHz to 18 GHz, Vertical

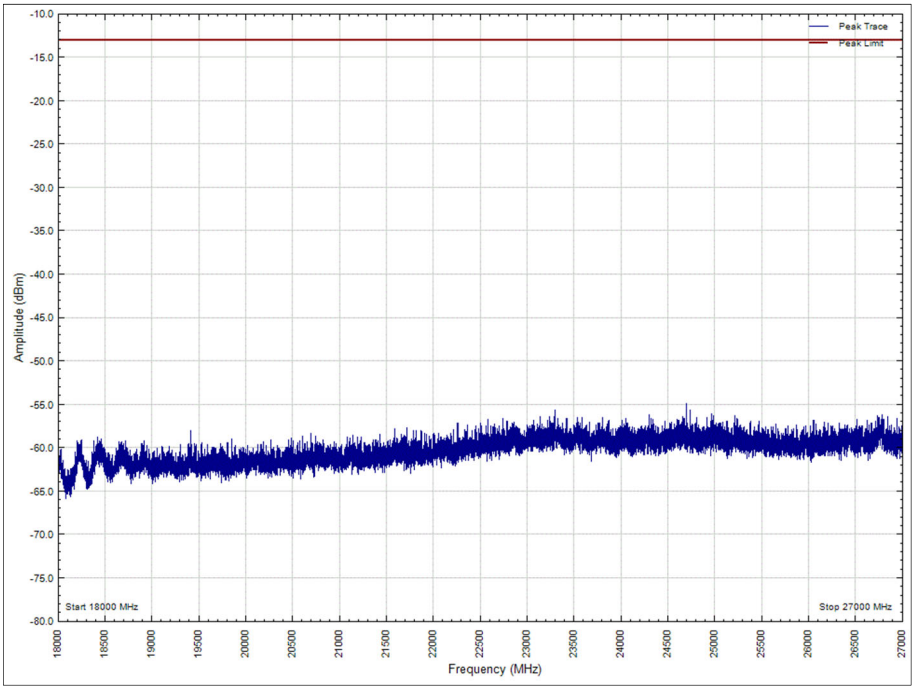


Figure 48 - 2501 MHz + 2511 MHz + 2685 MHz, 18 GHz to 27 GHz, Horizontal

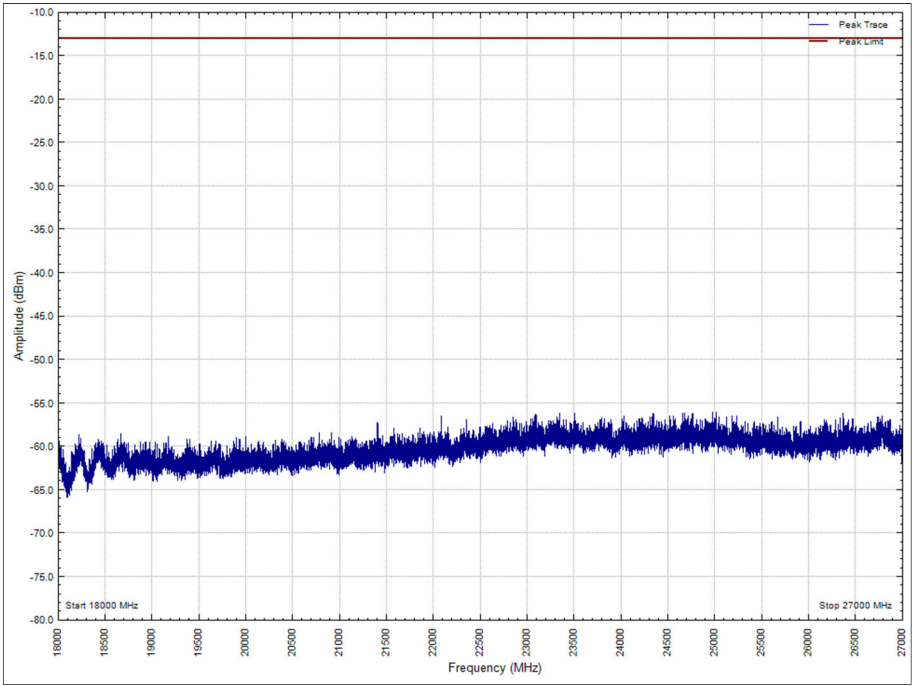


Figure 49 - 2501 MHz + 2511 MHz + 2685 MHz, 18 GHz to 27 GHz, Vertical

DC Powered - 1 NR (60 MHz) + 1 LTE (10 MHz) - 2C - 2526 MHz + 2685 MHz (M)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Angle (°)	Height (cm)	Polarisation	Orientation
*							

Table 17 – 2526 MHz + 2685 MHz, 30 MHz to 1 GHz

* No emissions were detected within 10 dB of the limit.

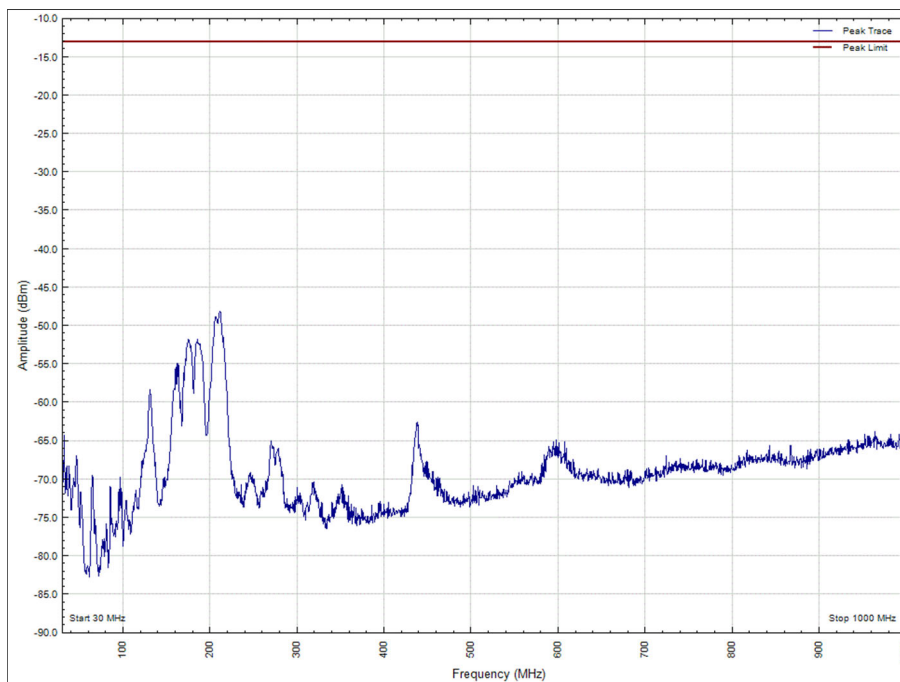


Figure 50 – 2526 MHz + 2685 MHz, 30 MHz to 1 GHz, Horizontal

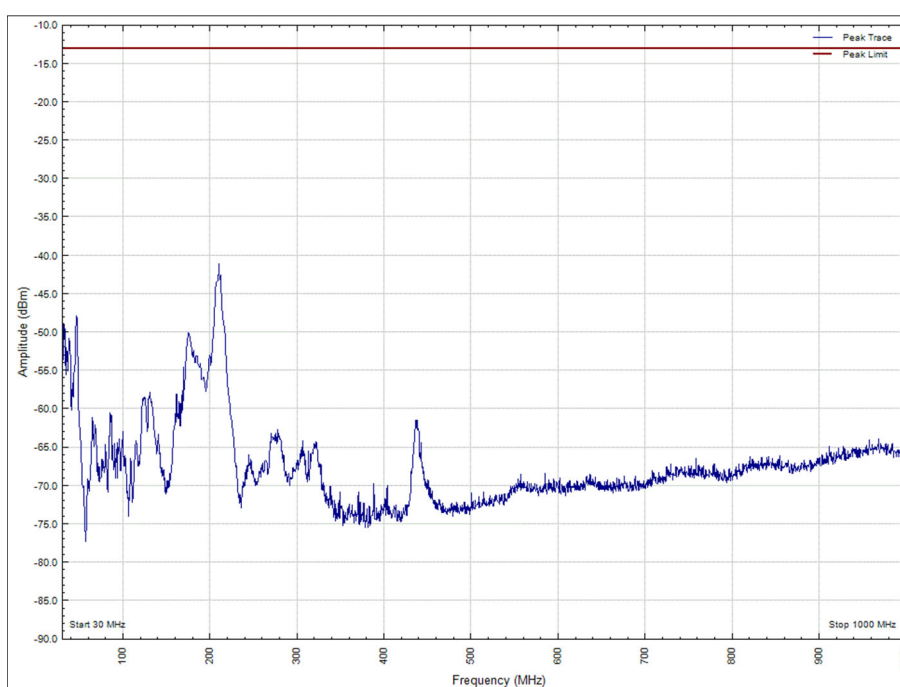


Figure 51 – 2526 MHz + 2685 MHz, 30 MHz to 1 GHz, Vertical



Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Angle (°)	Height (cm)	Polarisation	Orientation
*							

Table 18 – 2526 MHz + 2685 MHz, 1 GHz to 27 GHz

* No emissions were detected within 10 dB of the limit.

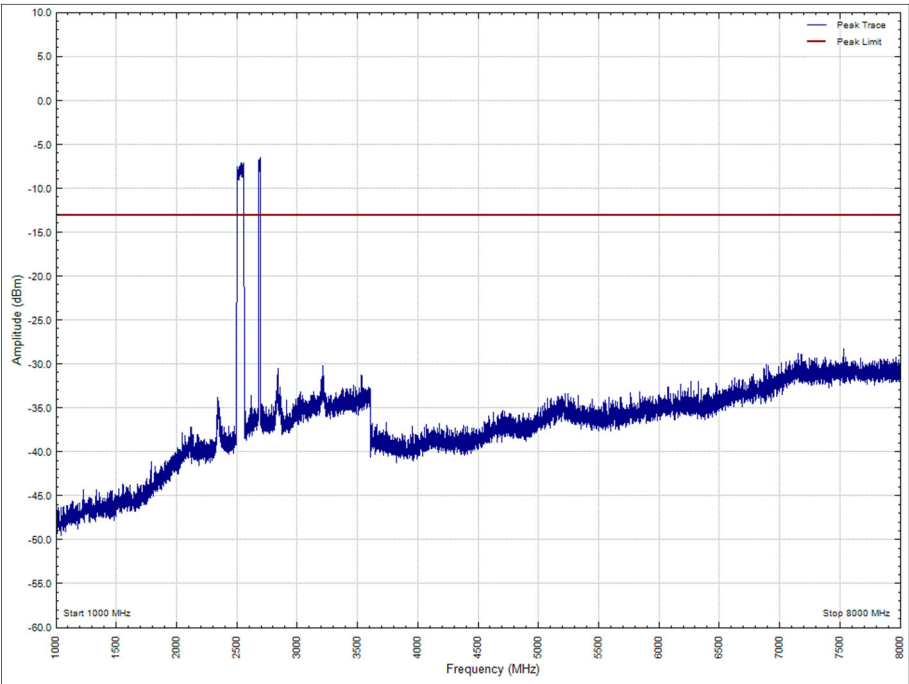


Figure 52 - 2526 MHz + 2685 MHz, 1 GHz to 8 GHz, Horizontal

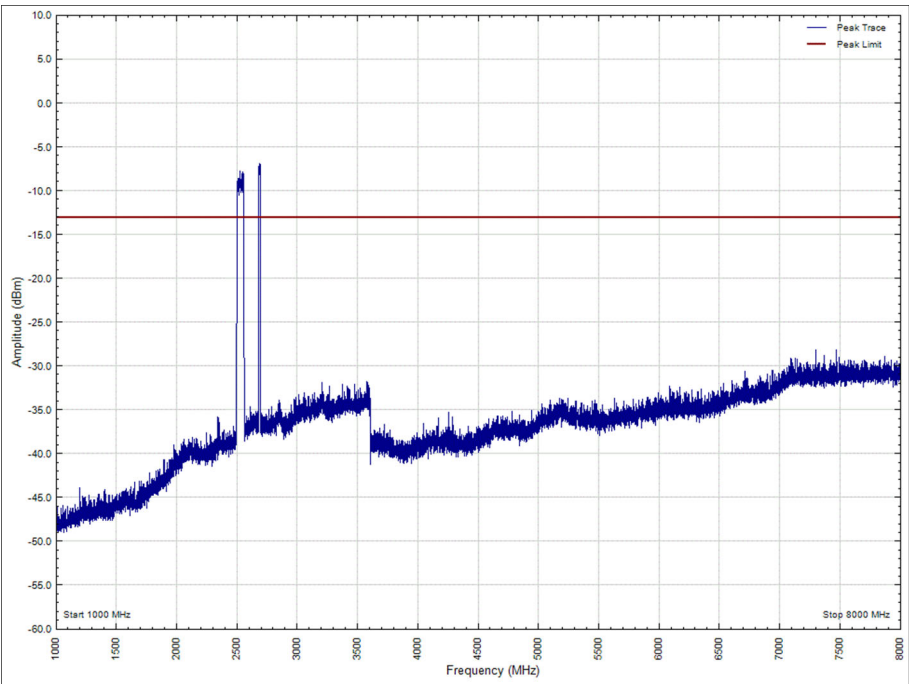


Figure 53 - 2526 MHz + 2685 MHz, 1 GHz to 8 GHz, Vertical

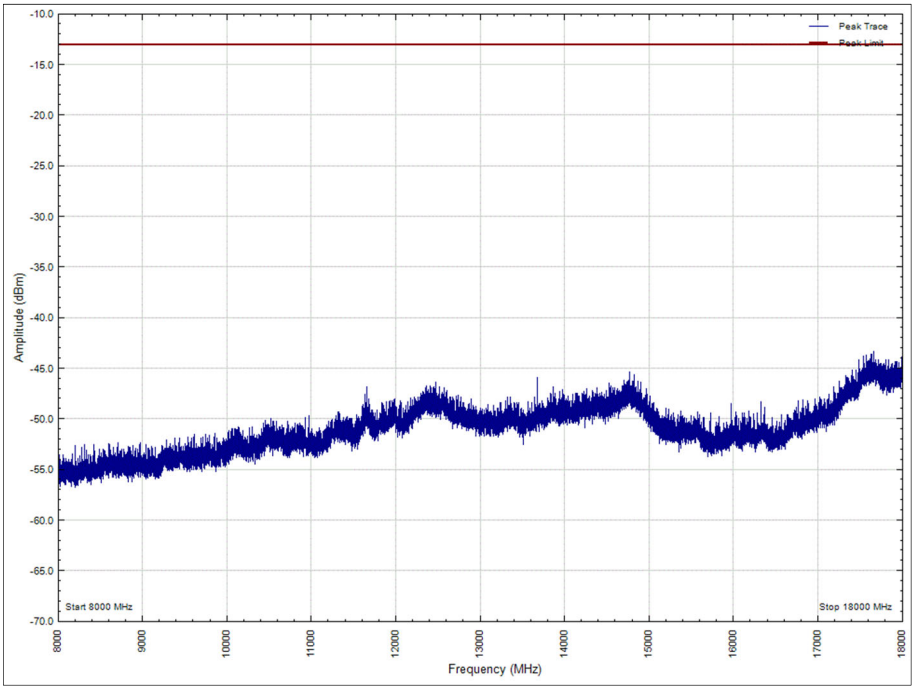


Figure 54 - 2526 MHz + 2685 MHz, 8 GHz to 18 GHz, Horizontal

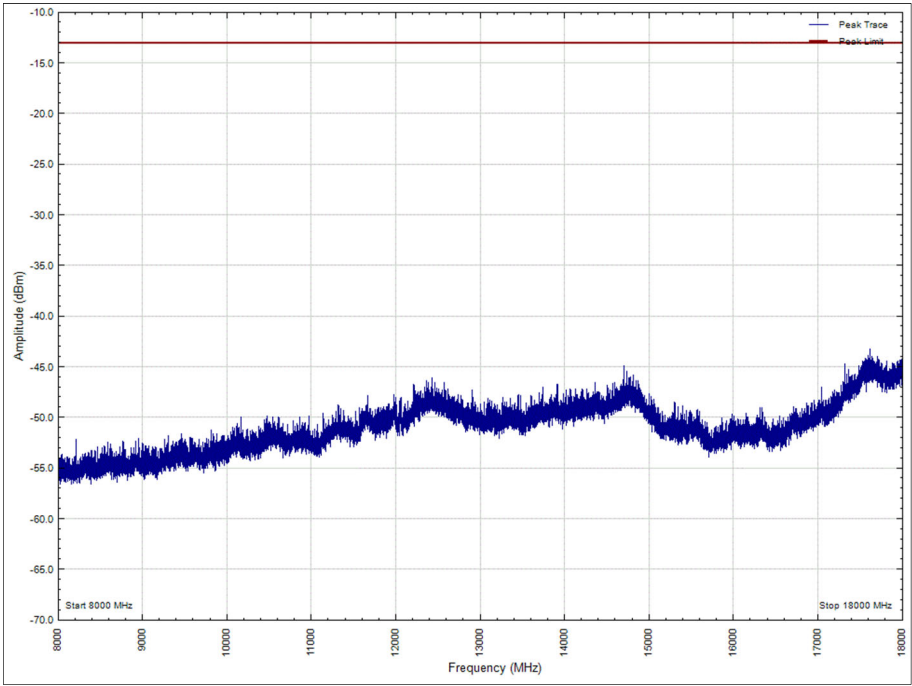


Figure 55 - 2526 MHz + 2685 MHz, 8 GHz to 18 GHz, Vertical

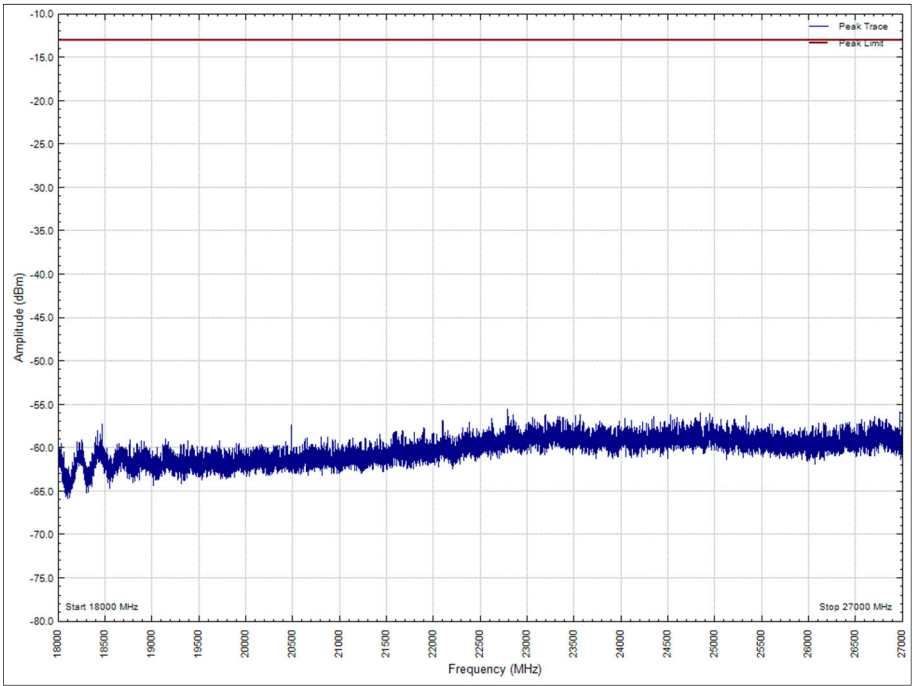


Figure 56 - 2526 MHz + 2685 MHz, 18 GHz to 27 GHz, Horizontal

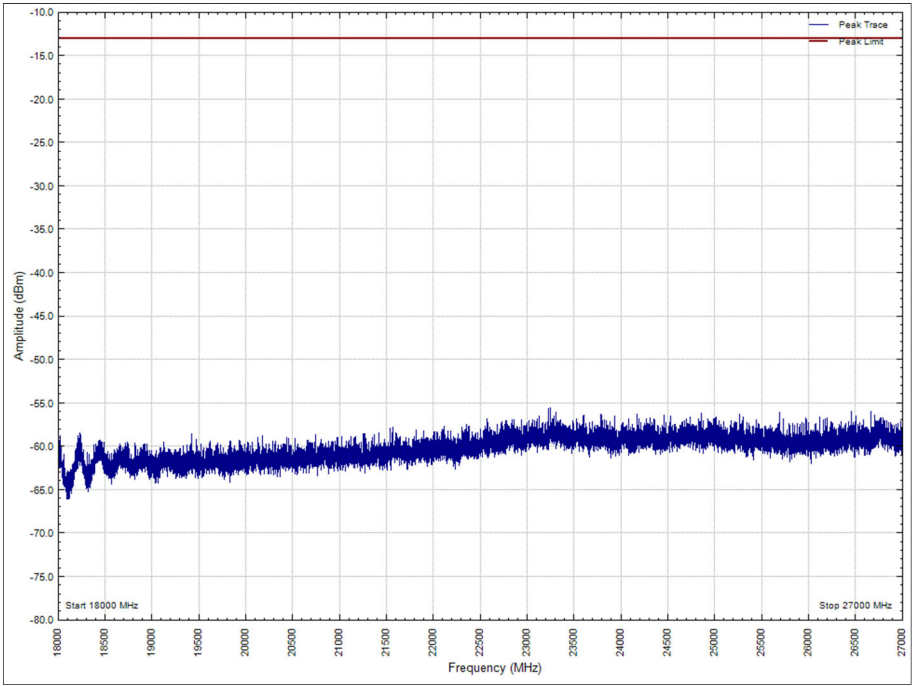


Figure 57 - 2526 MHz + 2685 MHz, 18 GHz to 27 GHz, Vertical

DC Powered - 1 NR (60 MHz) + 3 LTE (10 MHz) – 4C – 2526 MHz + 2665 MHz + 2675 MHz + 2685 MHz (M)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Angle (°)	Height (cm)	Polarisation	Orientation
*							

Table 19 – 2526 MHz + 2665 MHz + 2675 MHz + 2685 MHz, 30 MHz to 1 GHz

* No emissions were detected within 10 dB of the limit.

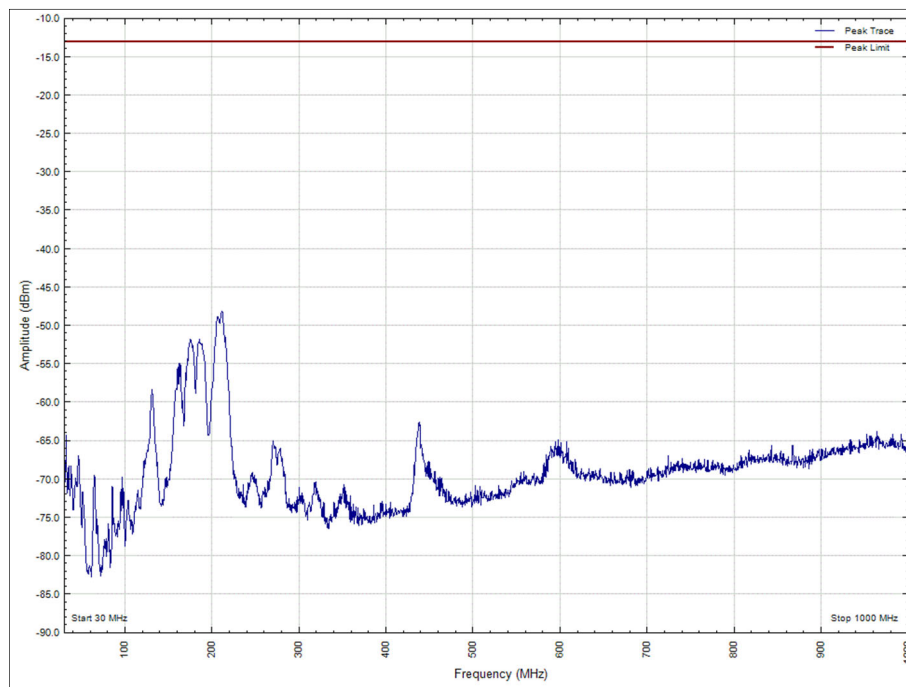


Figure 58 - 2526 MHz + 2665 MHz + 2675 MHz + 2685 MHz, 30 MHz to 1 GHz, Horizontal

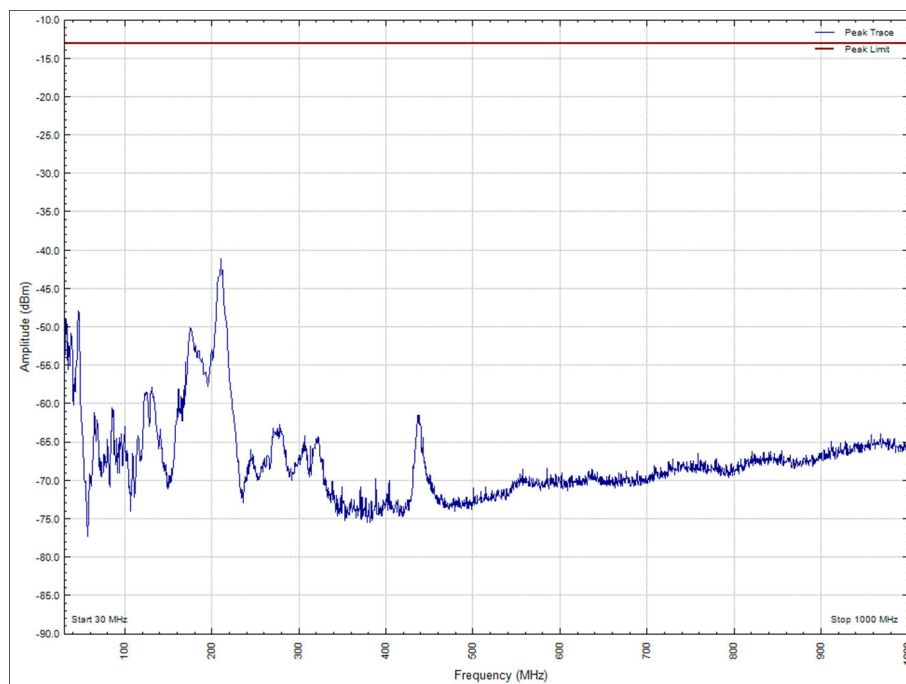


Figure 59 - 2526 MHz + 2665 MHz + 2675 MHz + 2685 MHz, 30 MHz to 1 GHz, Vertical

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Angle (°)	Height (cm)	Polarisation	Orientation
*							

Table 20 – 2526 MHz + 2665 MHz + 2675 MHz + 2685 MHz, 1 GHz to 27 GHz

* No emissions were detected within 10 dB of the limit.

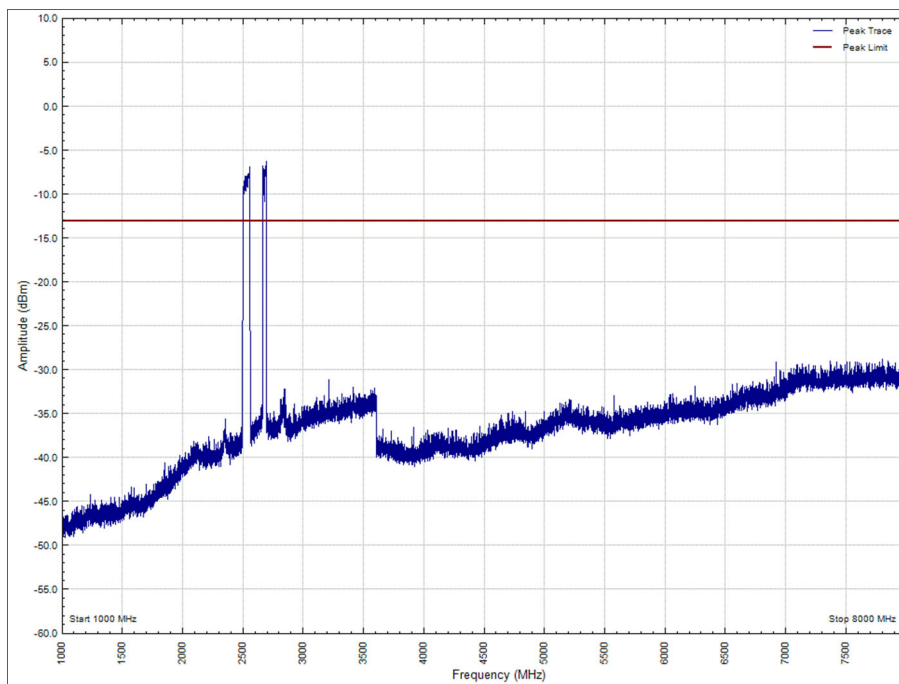


Figure 60 - 2526 MHz + 2665 MHz + 2675 MHz + 2685 MHz, 1 GHz to 8 GHz, Horizontal

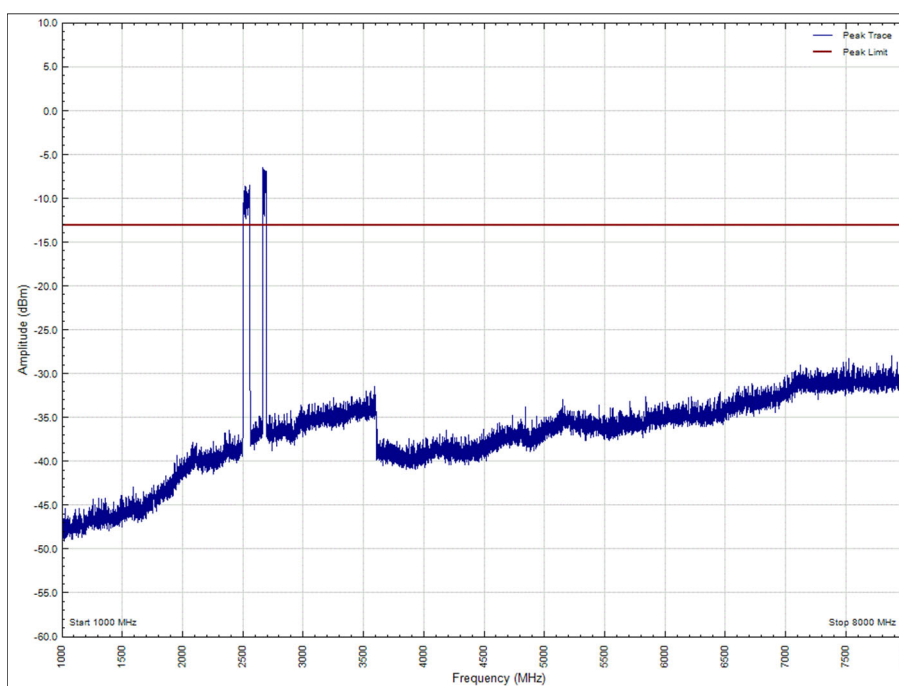


Figure 61 - 2526 MHz + 2665 MHz + 2675 MHz + 2685 MHz, 1 GHz to 8 GHz, Vertical

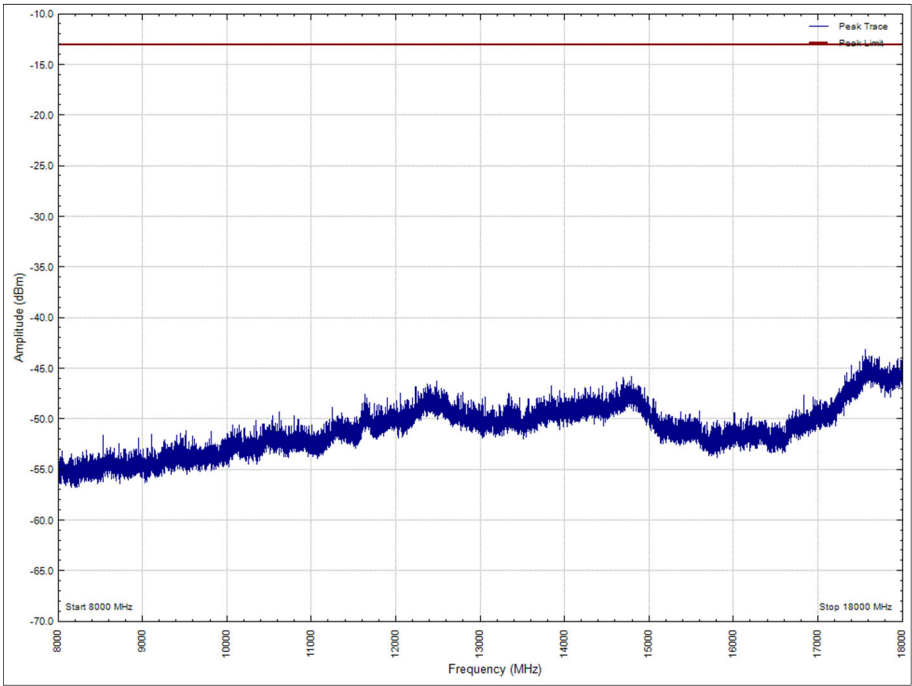


Figure 62 - 2526 MHz + 2665 MHz + 2675 MHz + 2685 MHz, 8 GHz to 18 GHz, Horizontal

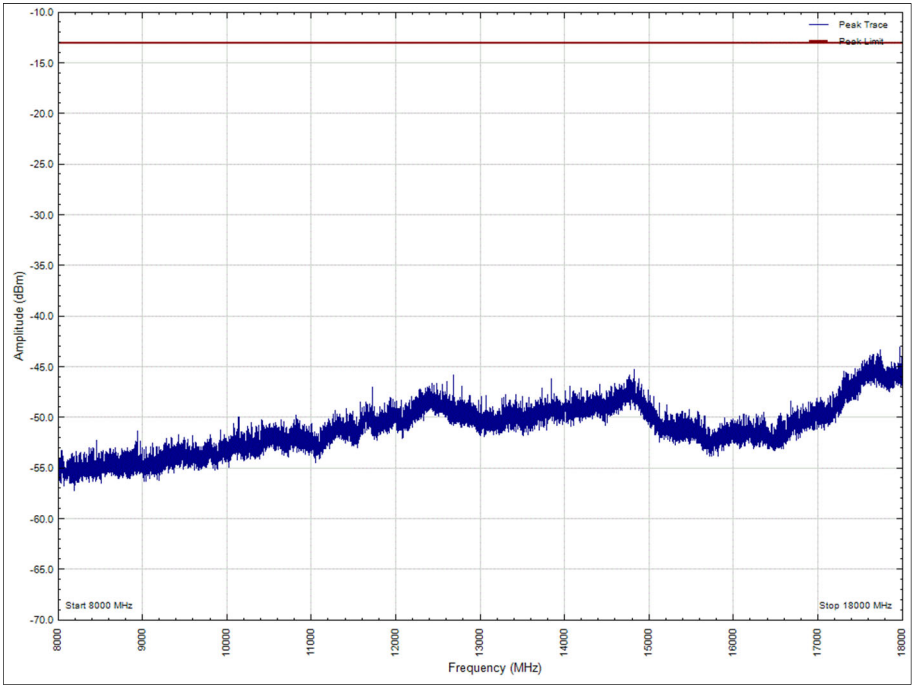


Figure 63 - 2526 MHz + 2665 MHz + 2675 MHz + 2685 MHz, 8 GHz to 18 GHz, Vertical

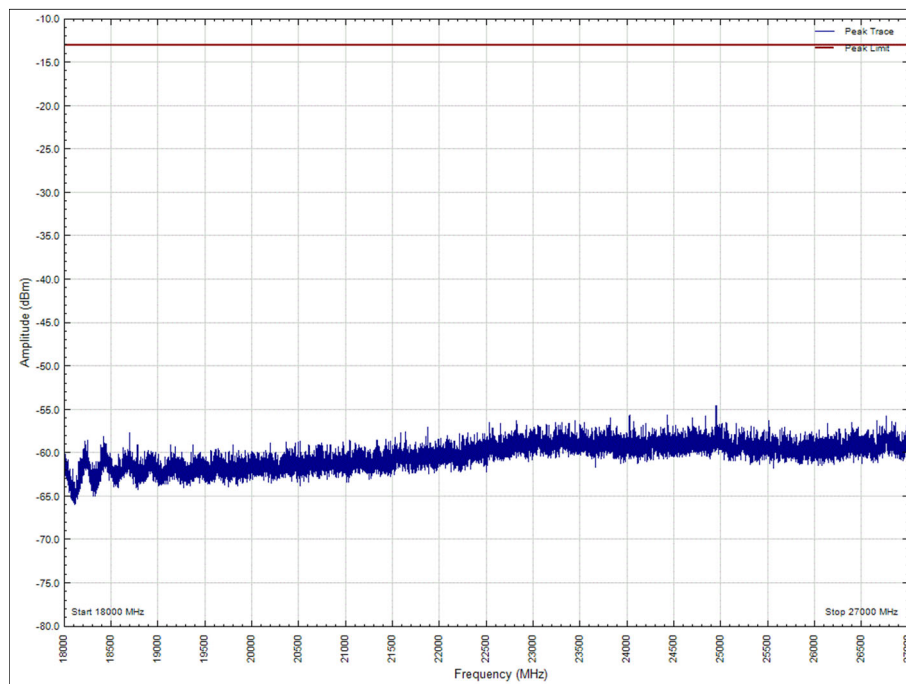


Figure 64 - 2526 MHz + 2665 MHz + 2675 MHz + 2685 MHz, 18 GHz to 27 GHz, Horizontal

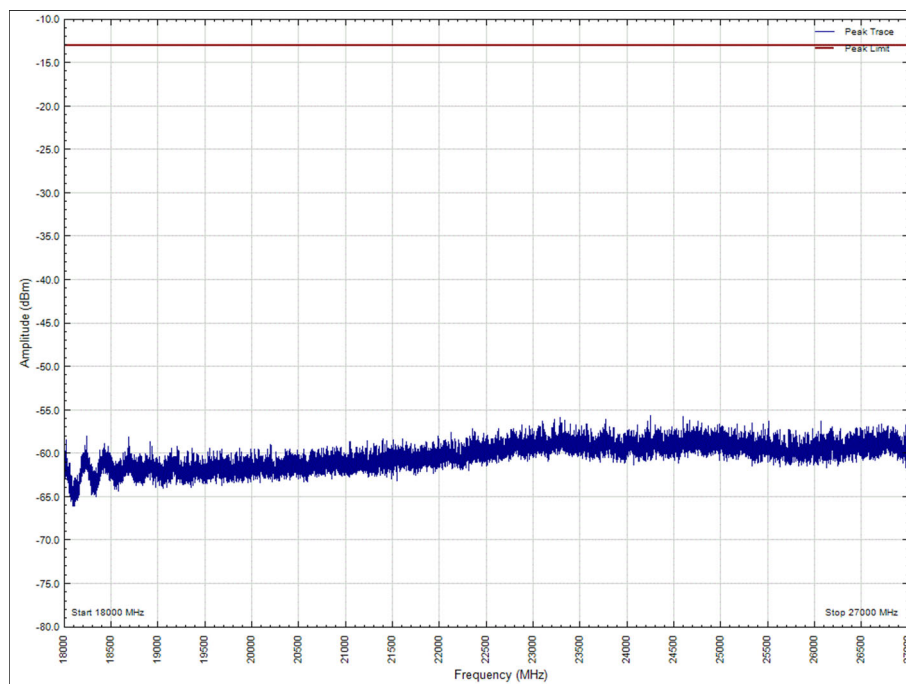


Figure 65 - 2526 MHz + 2665 MHz + 2675 MHz + 2685 MHz, 18 GHz to 27 GHz, Vertical

FCC 47 CFR Part 27, Limit Clause 27.53(m)

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.



2.1.7 Test Location and Test Equipment Used

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Due
BiLog antenna	Chase	CBL6111A	IE-B928	12	24/07/2020
Cable	Unknown	N-Type	K:W18.03_3m	12	27/08/2020
Preamp <1GHz	Force	36-19067	36150	12	28/08/2020
Cable	Sucoflex	SMA	70469	12	20/04/2020
7 GHz HiPass	Micro-Tronics	HPM15120	36068	12	13/08/2020
Amplifier	Quinstar	Unknown	36021	12	13/08/2020
Receiver	Rohde and Schwarz	ESU	36020	12	15/01/2021
Spectrum Analyser	N9030B	Keysight	BAMS-1002020934	12	02/01/2021
Spectrum Analyser	N9030A	Keysight	BAMS-1002016870	12	05/12/2020
Antenna	Schwarzbeck	BBHA 9170	5217		09/07/2020
Cable	Rosenberger	LU7-133-5000	5219	12	12/11/2020
Pre-Amp	Schwarzbeck	BBV 9721	5218	12	09/07/2020
Hygrometer	Rotronic	HP21	4410	12	13-Jun-2020
Digital Voltmeter	Fluke	79	3057	12	19-Aug-2020

Table 21

3 Photographs

3.1 Test Setup Photographs

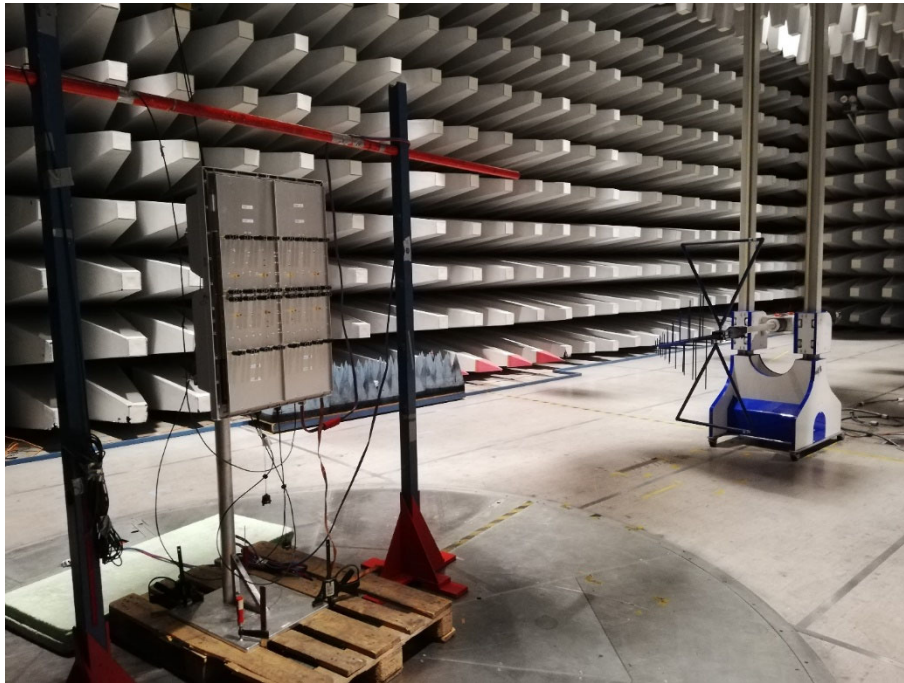


Figure 66 – 30 MHz to 1 GHz



Figure 67 – 1 GHz to 18 GHz



Figure 68 – 18 GHz to 27 GHz



4 Measurement Uncertainty

For a 95% confidence level, the measurement uncertainties for defined systems are:

Test Name	Measurement Uncertainty
Radiated Spurious Emissions	30 MHz to 1 GHz: ± 5.2 dB 1 GHz to 40 GHz: ± 6.3 dB

Table 22

Measurement Uncertainty Decision Rule

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115: 2007, clause 4.4.3 and 4.5.1.