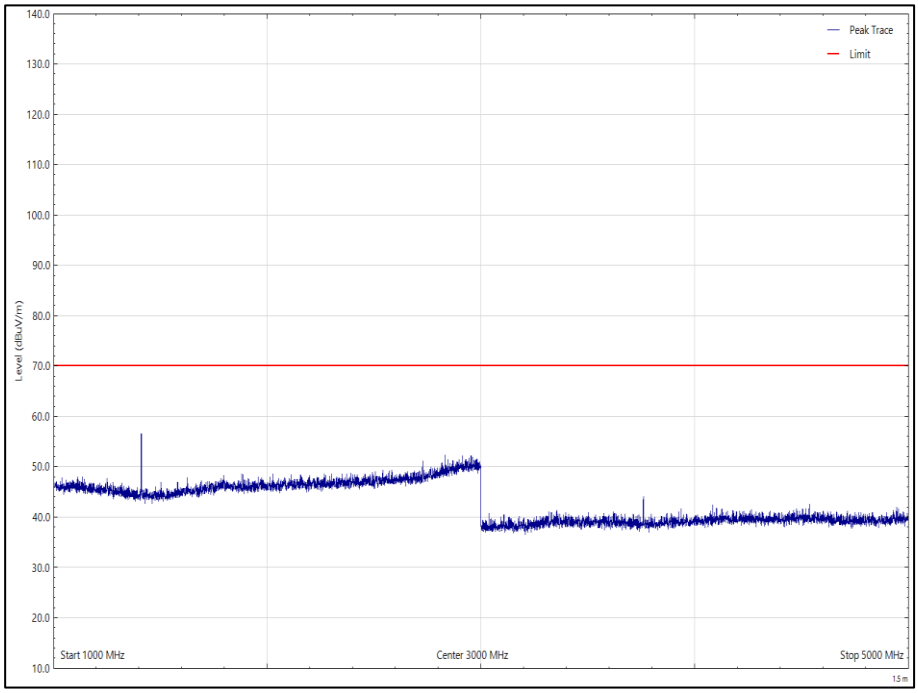

Figure 104 - 469.975 MHz - 1 GHz to 5 GHz, EUT Orientation X Vertical

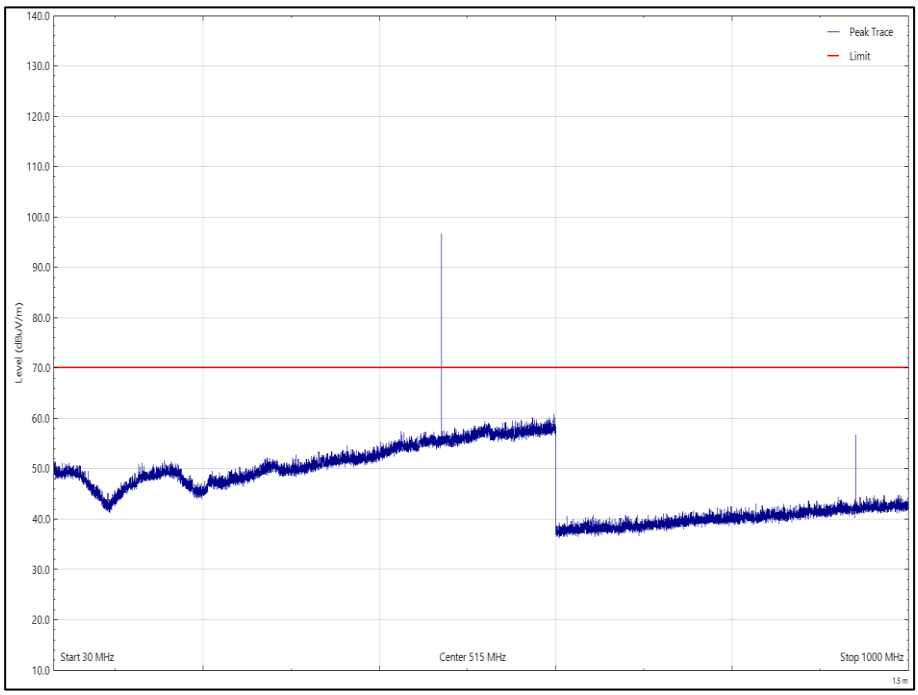

Figure 105 - 469.975 MHz - 30 MHz to 1 GHz, EUT Orientation Y Horizontal

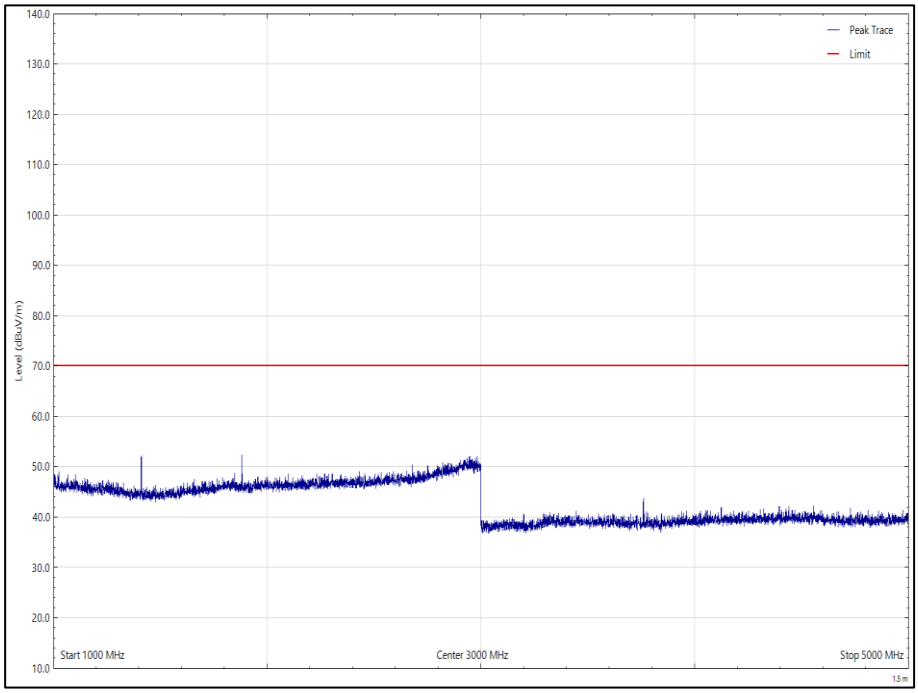

Figure 106 - 469.975 MHz - 1 GHz to 5 GHz, EUT Orientation Y Horizontal

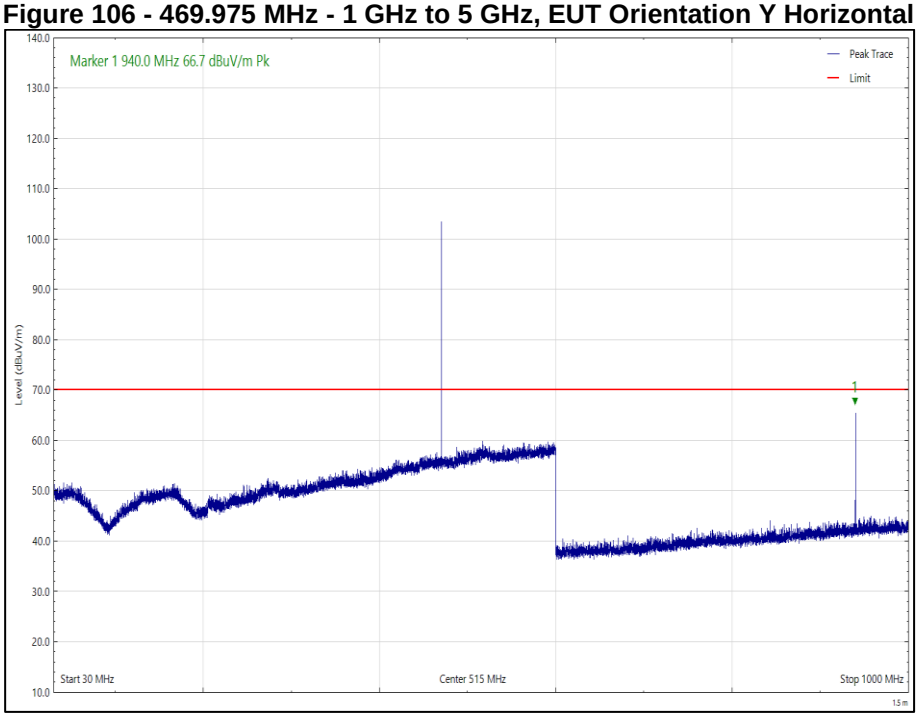

Figure 107 - 469.975 MHz - 30 MHz to 1 GHz, EUT Orientation Y Vertical

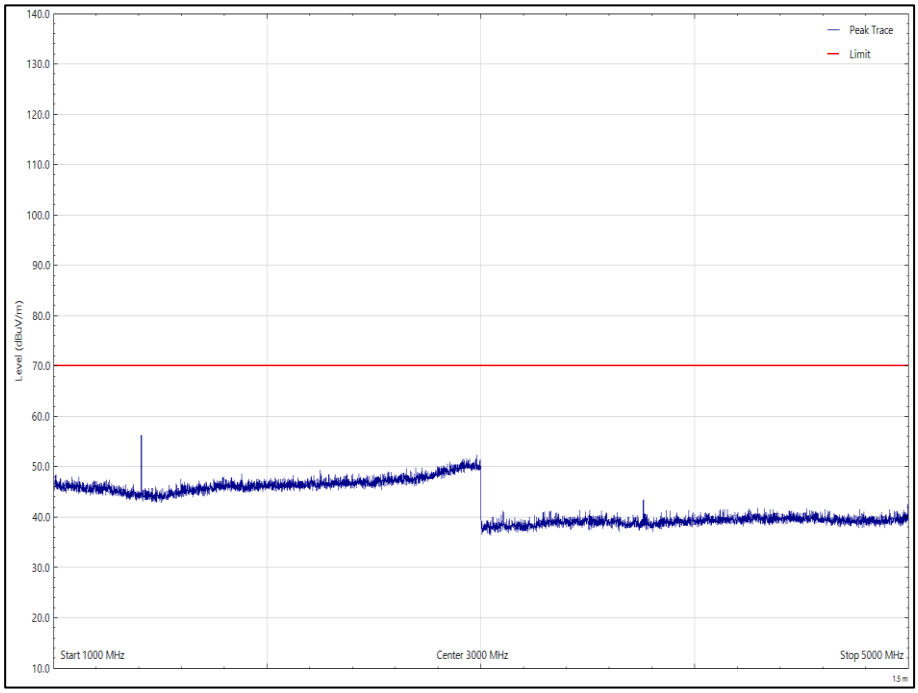

Figure 108 - 469.975 MHz - 1 GHz to 5 GHz, EUT Orientation Y Vertical

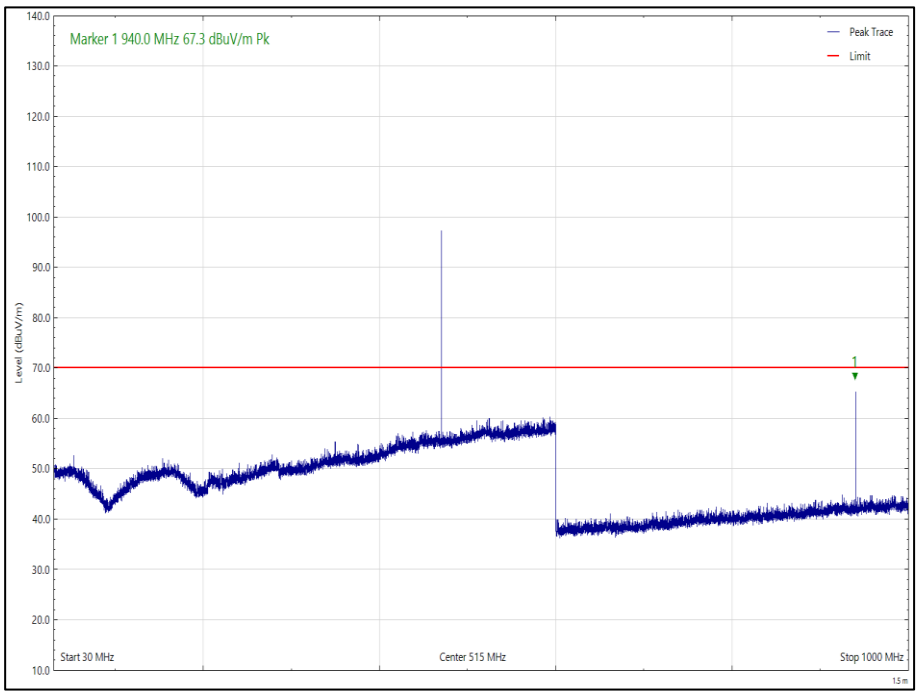

Figure 109 - 469.975 MHz - 30 MHz to 1 GHz, EUT Orientation Z Horizontal

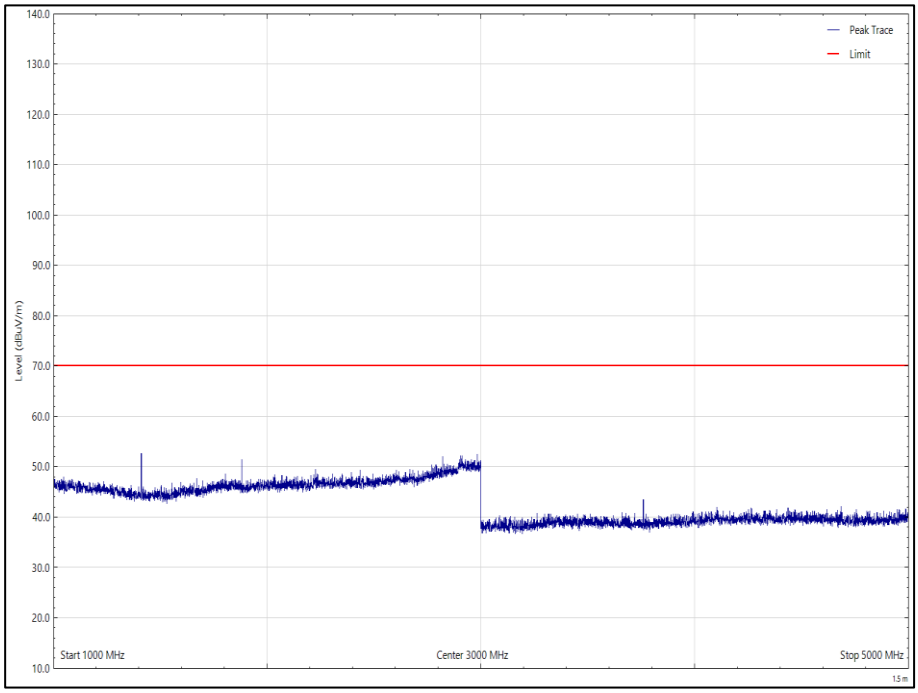

Figure 110 - 469.975 MHz - 1 GHz to 5 GHz, EUT Orientation Z Horizontal

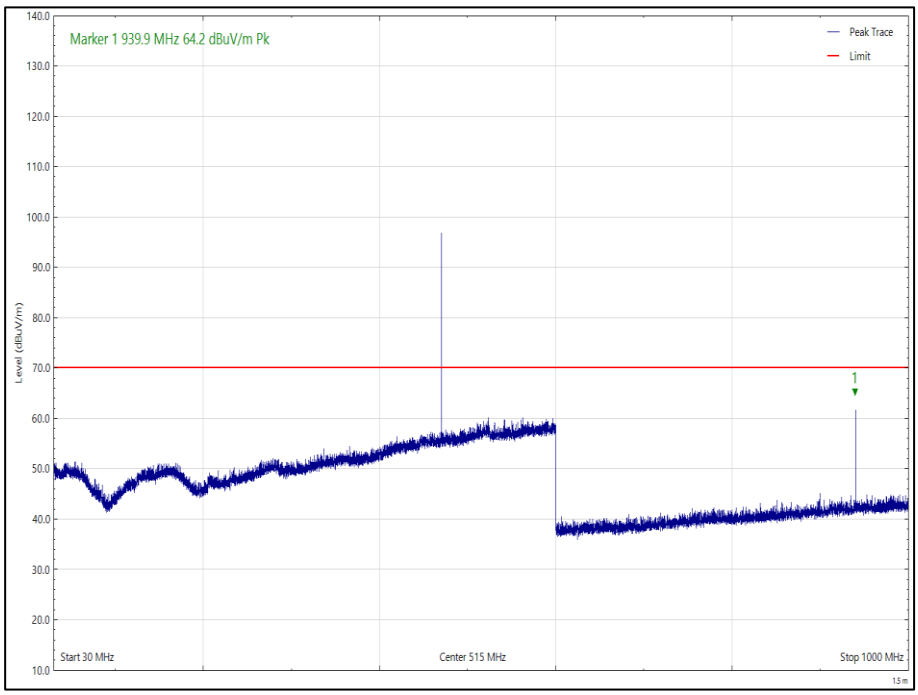

Figure 111 - 469.975 MHz - 30 MHz to 1 GHz, EUT Orientation Z Vertical

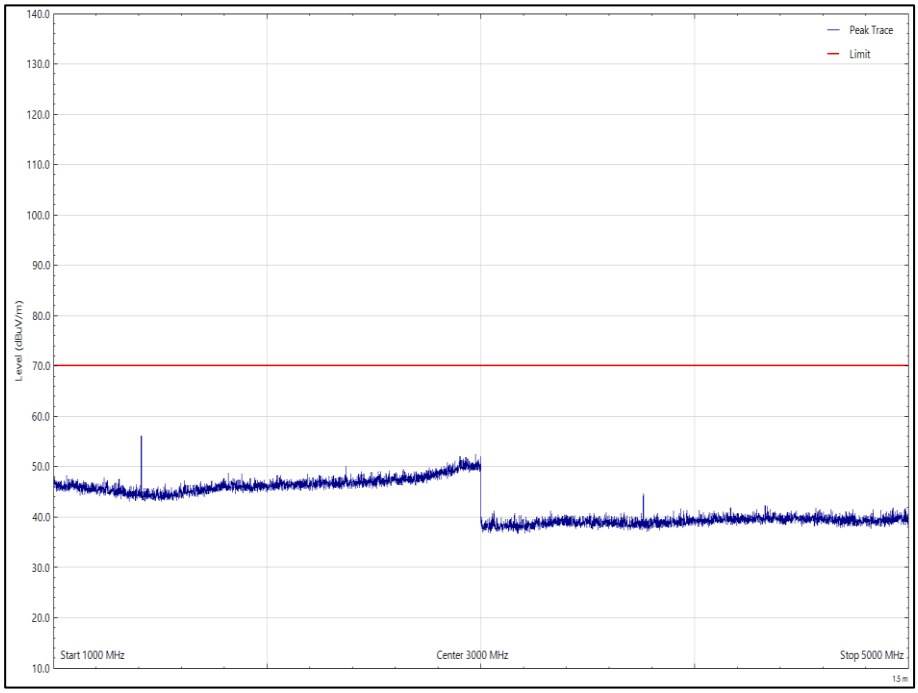

Figure 112 - 469.975 MHz - 1 GHz to 5 GHz, EUT Orientation Z Vertical

Tetra - 406.1-430 MHz

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation	Orientation
812.244	67.26	70.2	-2.94	Peak	8	100	Horizontal	X
812.196	67.7	70.2	-2.50	Peak	102	100	Horizontal	Z

Table 25 - 406.125 MHz, 30 MHz to 5 GHz

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

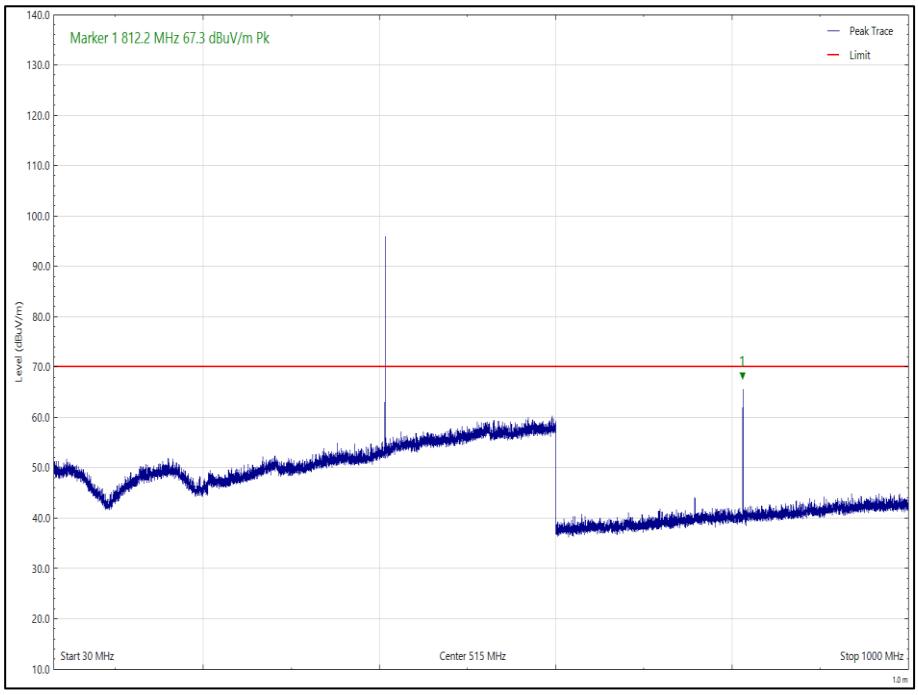

Figure 113 - 406.125 MHz - 30 MHz to 1 GHz, EUT Orientation X Horizontal

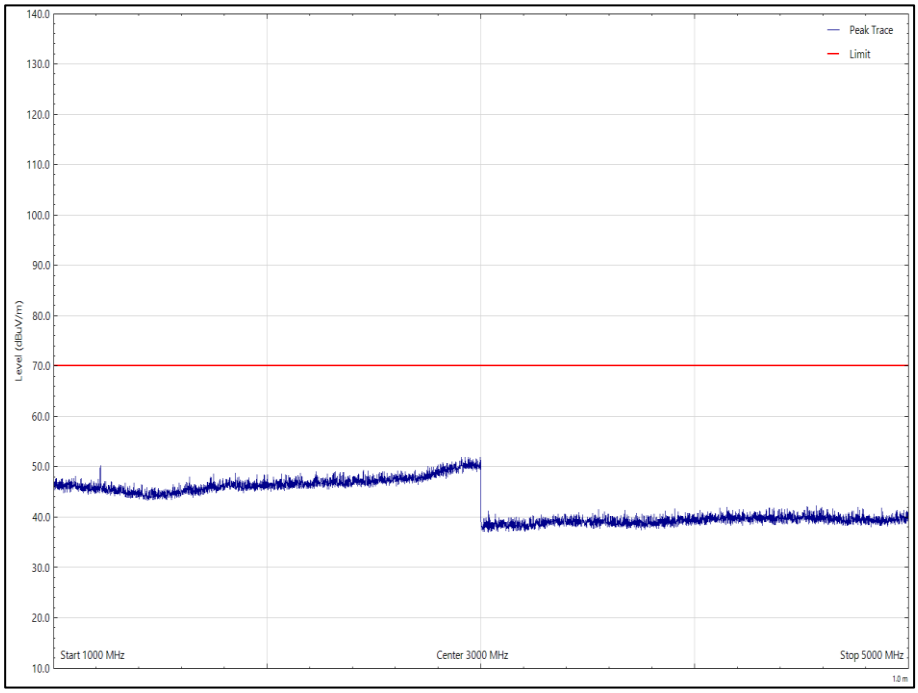

Figure 114 - 406.125 MHz - 1 GHz to 5 GHz, EUT Orientation X Horizontal

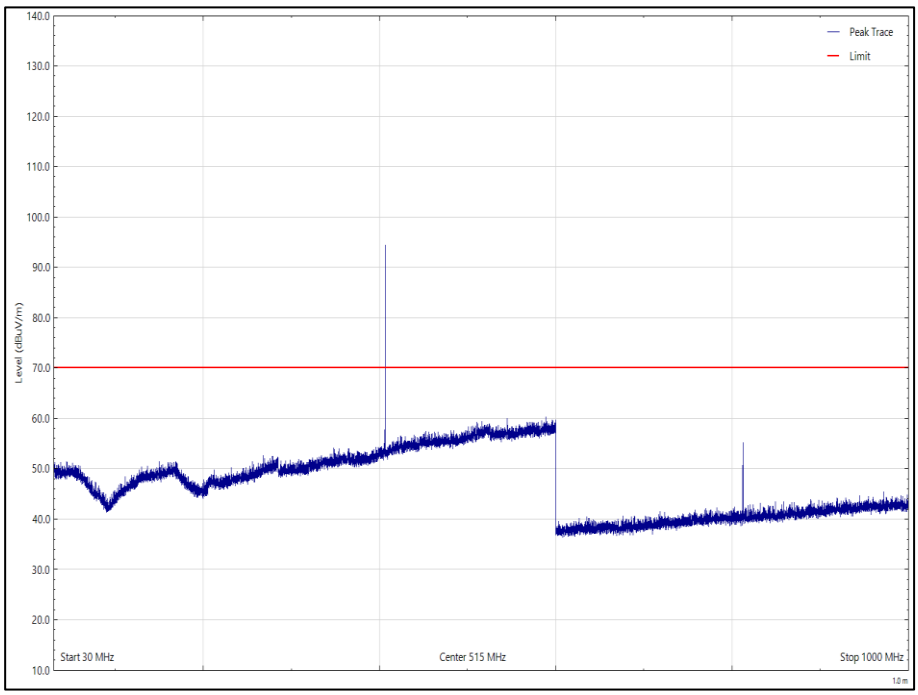

Figure 115 - 406.125 MHz - 30 MHz to 1 GHz, EUT Orientation X Vertical

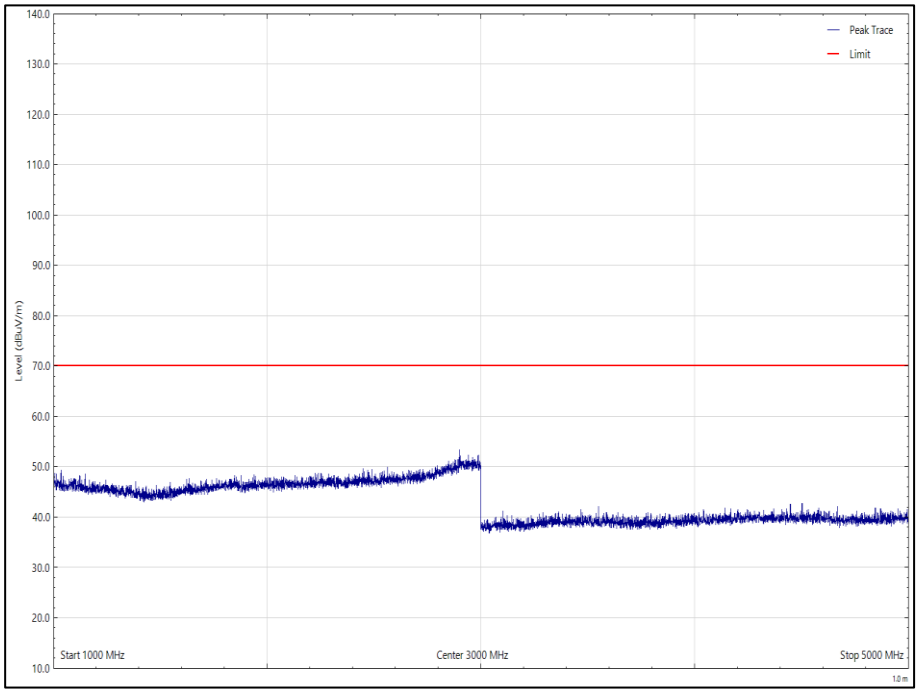

Figure 116 - 406.125 MHz - 1 GHz to 5 GHz, EUT Orientation X Vertical

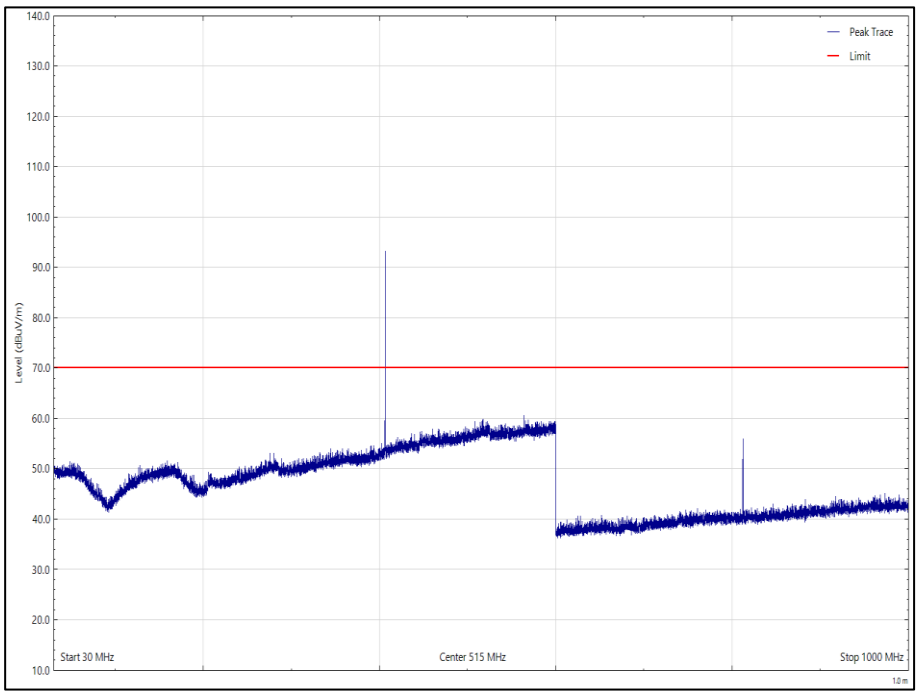

Figure 117 - 406.125 MHz - 30 MHz to 1 GHz, EUT Orientation Y Horizontal

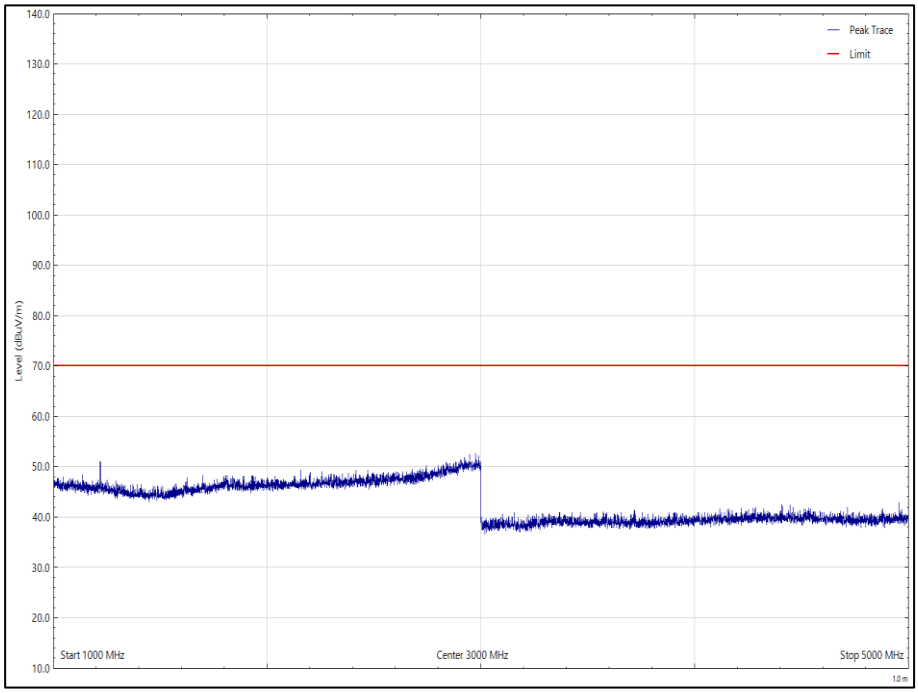

Figure 118 - 406.125 MHz - 1 GHz to 5 GHz, EUT Orientation Y Horizontal

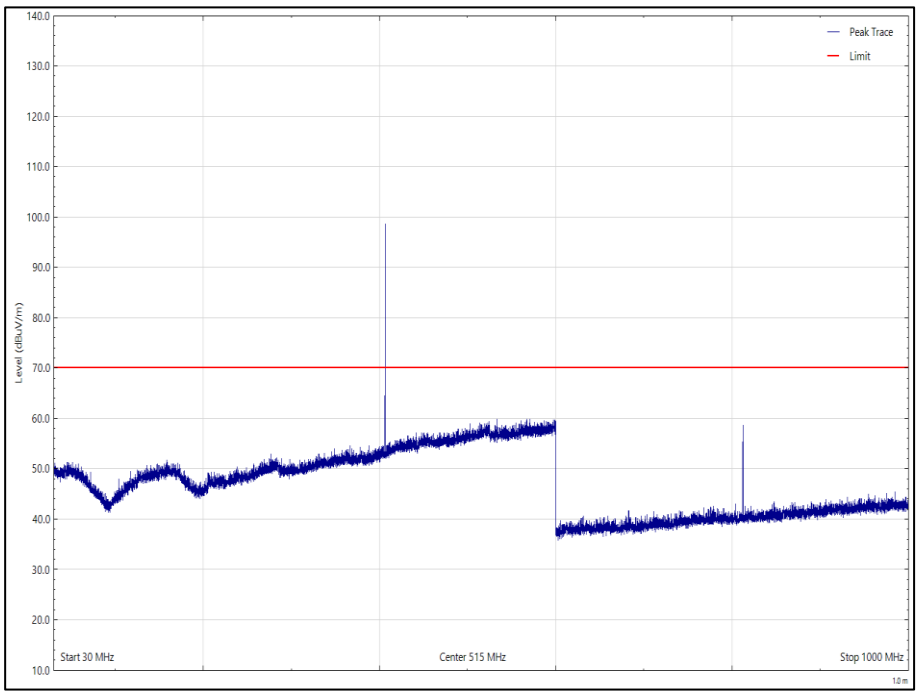

Figure 119 - 406.125 MHz - 30 MHz to 1 GHz, EUT Orientation Y Vertical

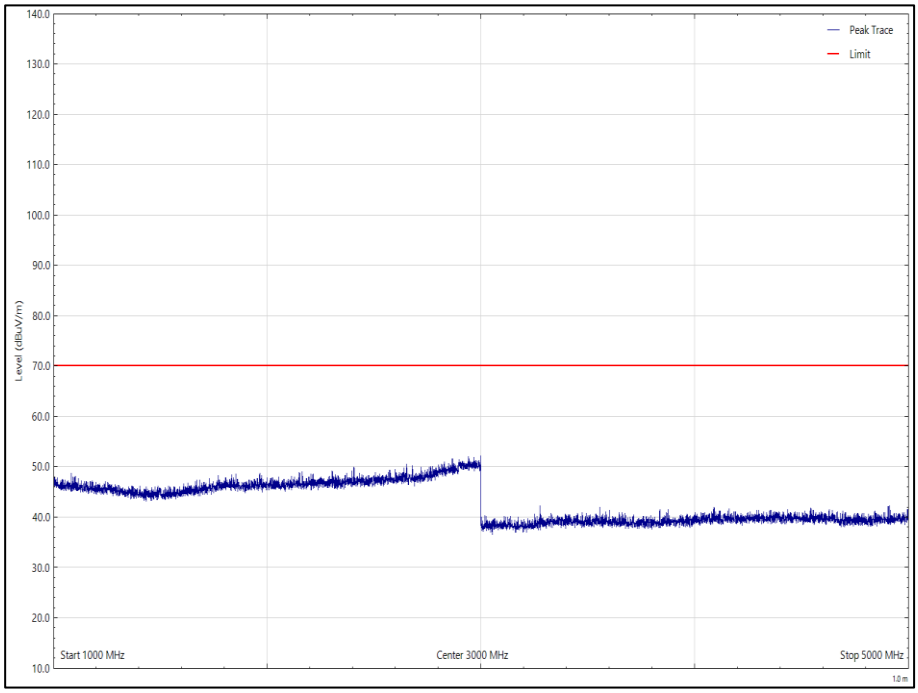

Figure 120 - 406.125 MHz - 1 GHz to 5 GHz, EUT Orientation Y Vertical

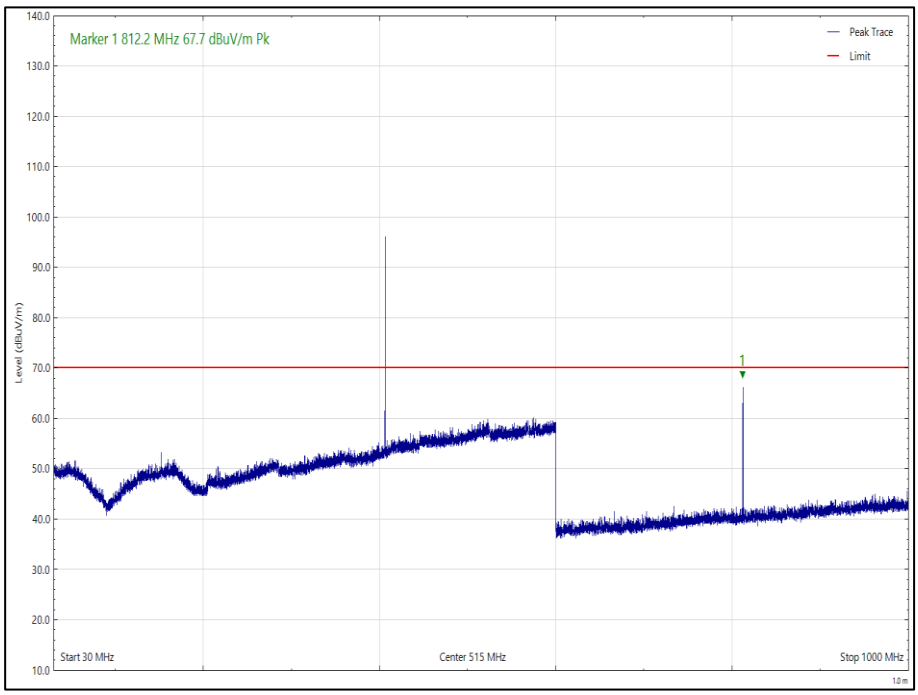

Figure 121 - 406.125 MHz - 30 MHz to 1 GHz, EUT Orientation Z Horizontal

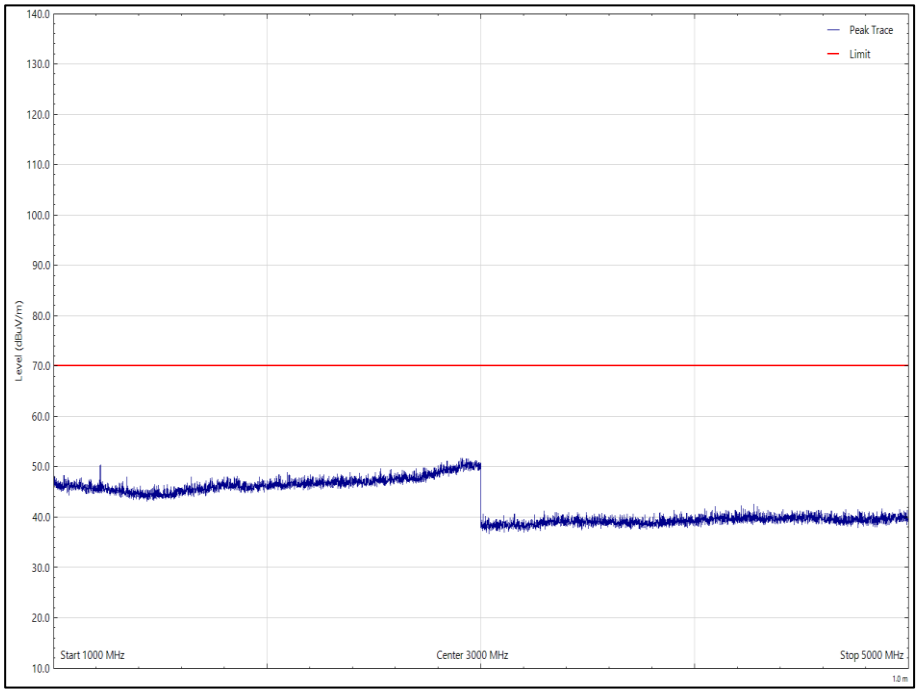

Figure 122 - 406.125 MHz - 1 GHz to 5 GHz, EUT Orientation Z Horizontal

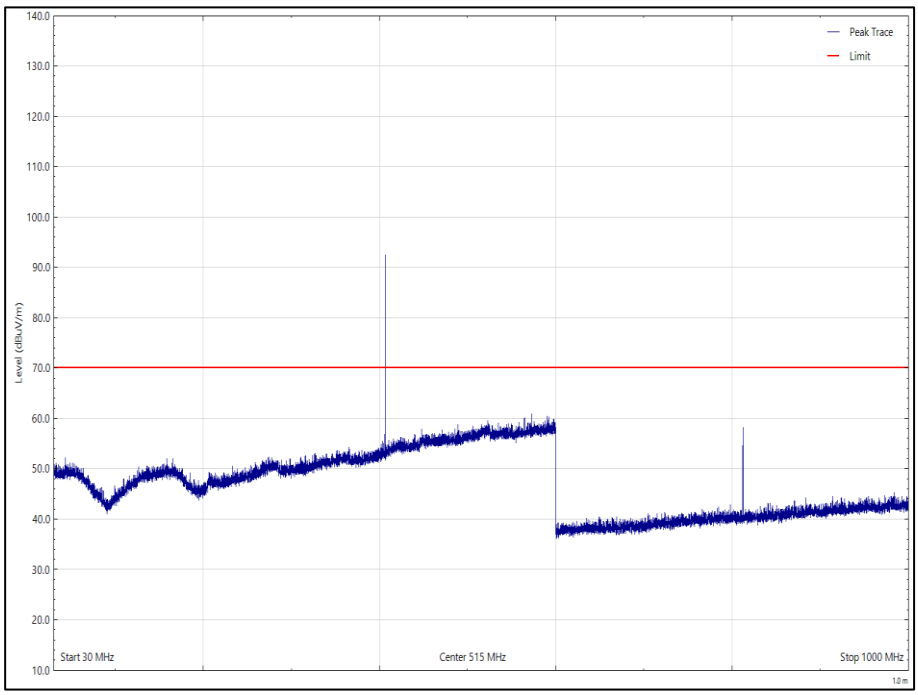

Figure 123 - 406.125 MHz - 30 MHz to 1 GHz, EUT Orientation Z Vertical

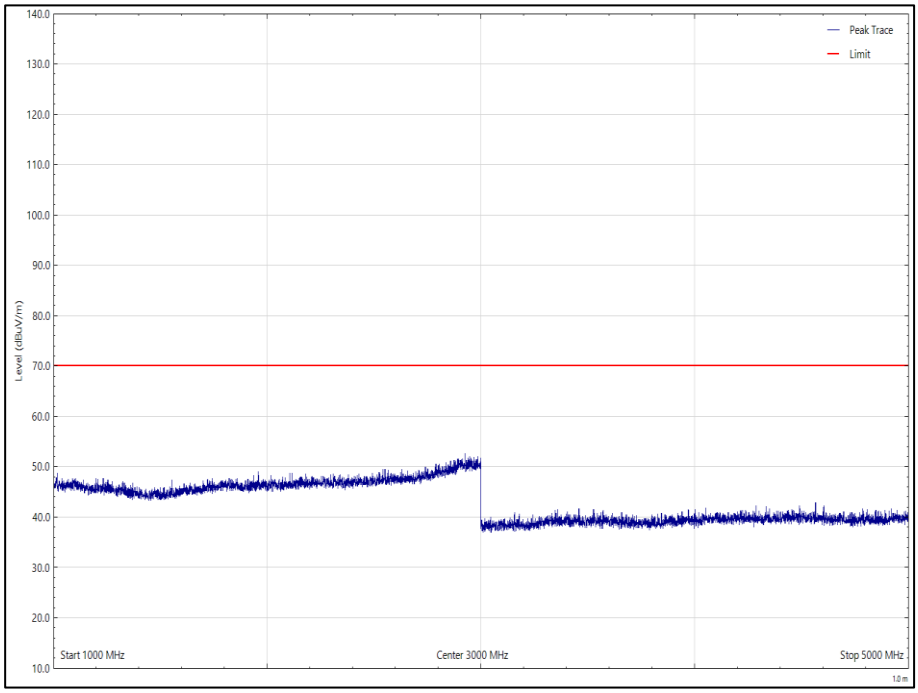

Figure 124 - 406.125 MHz - 1 GHz to 5 GHz, EUT Orientation Z Vertical

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation	Orientation
836.073	64.82	70.2	-5.38	Peak	26	100	Horizontal	X
835.885	66.52	70.2	-3.68	Peak	109	100	Horizontal	Z
835.885	66.52	70.2	-3.68	Peak	109	100	Horizontal	Z

Table 26 – 418.00 MHz, 30 MHz to 5 GHz

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

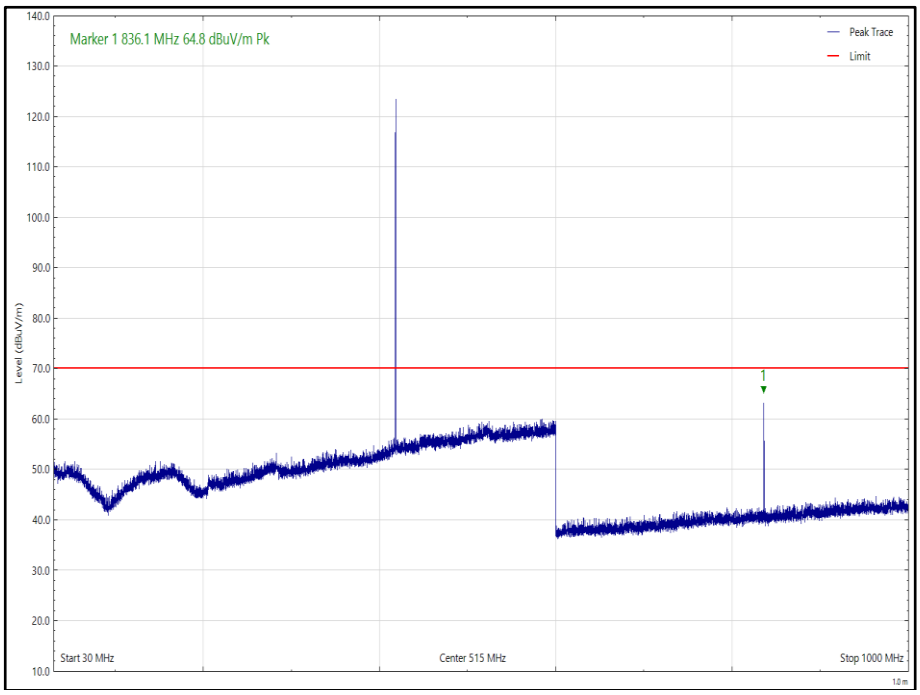

Figure 125 – 418.00 MHz - 30 MHz to 1 GHz, EUT Orientation X Horizontal

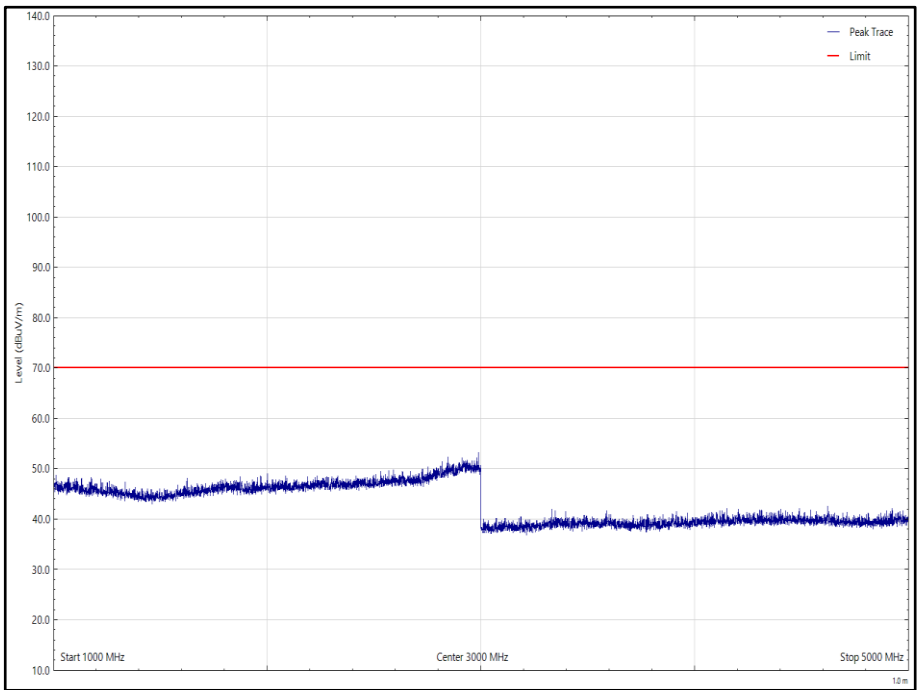

Figure 126 – 418.00 MHz – 1 GHz to 5 GHz, EUT Orientation X Horizontal

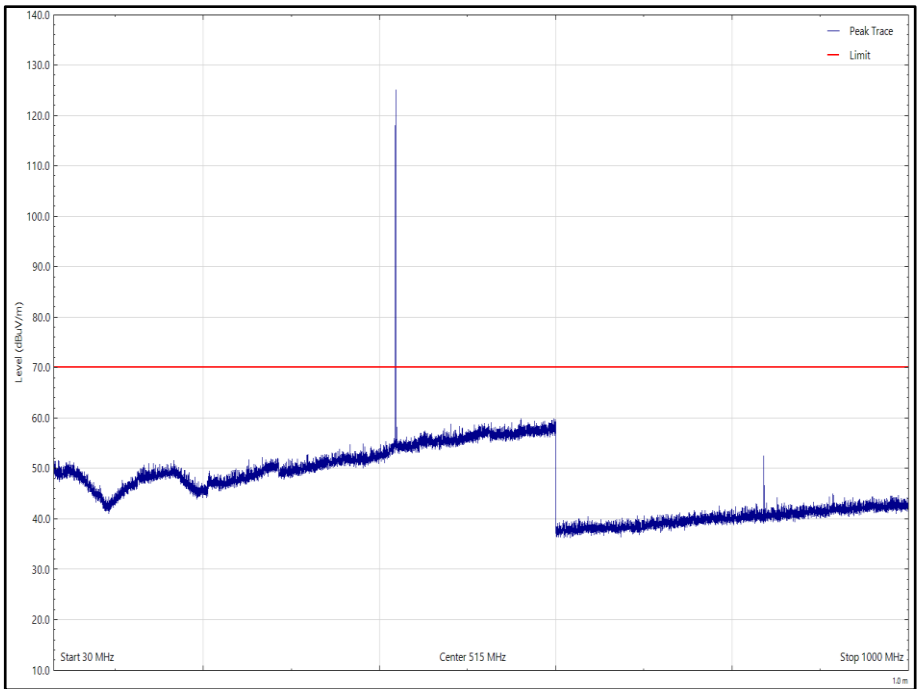

Figure 127 – 418.00 MHz - 30 MHz to 1 GHz, EUT Orientation X Vertical

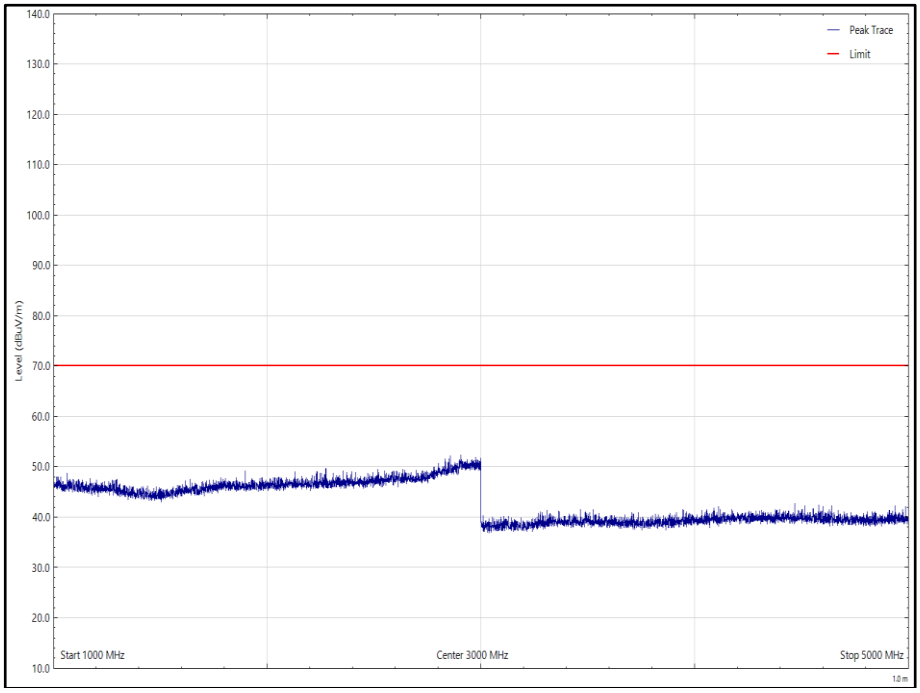

Figure 128 – 418.00 MHz – 1 GHz to 5 GHz, EUT Orientation X Vertical

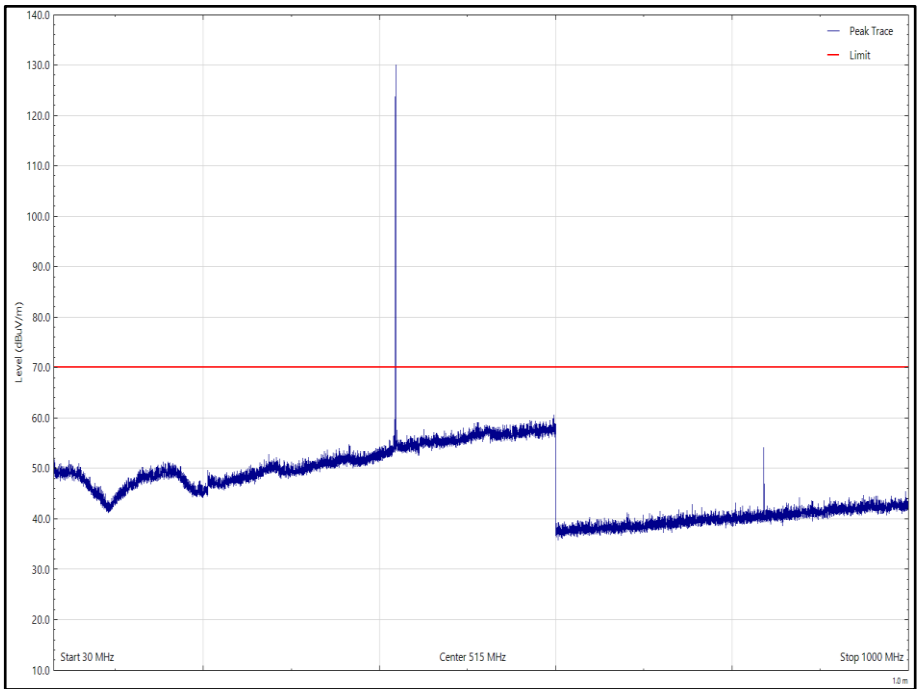

Figure 129 – 418.00 MHz - 30 MHz to 1 GHz, EUT Orientation Y Horizontal

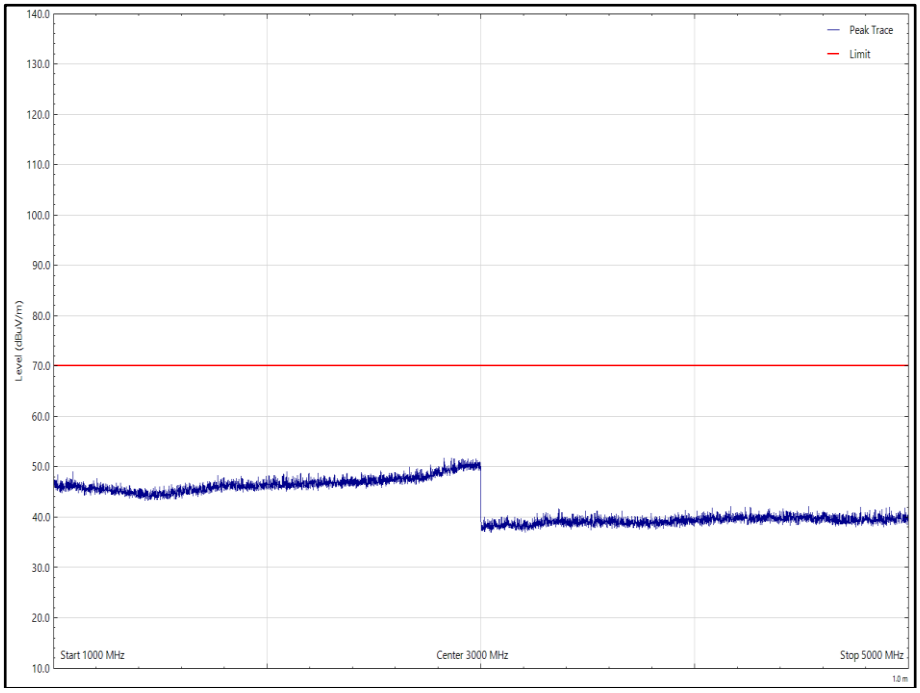

Figure 130 – 418.00 MHz – 1 GHz to 5 GHz, EUT Orientation Y Horizontal

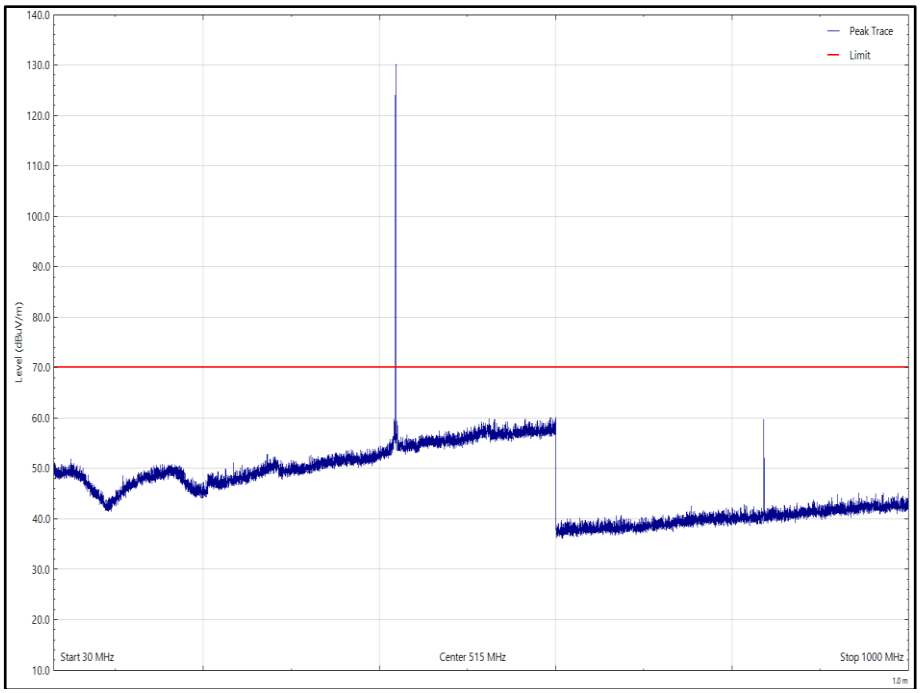

Figure 131 – 418.00 MHz - 30 MHz to 1 GHz, EUT Orientation Y Vertical

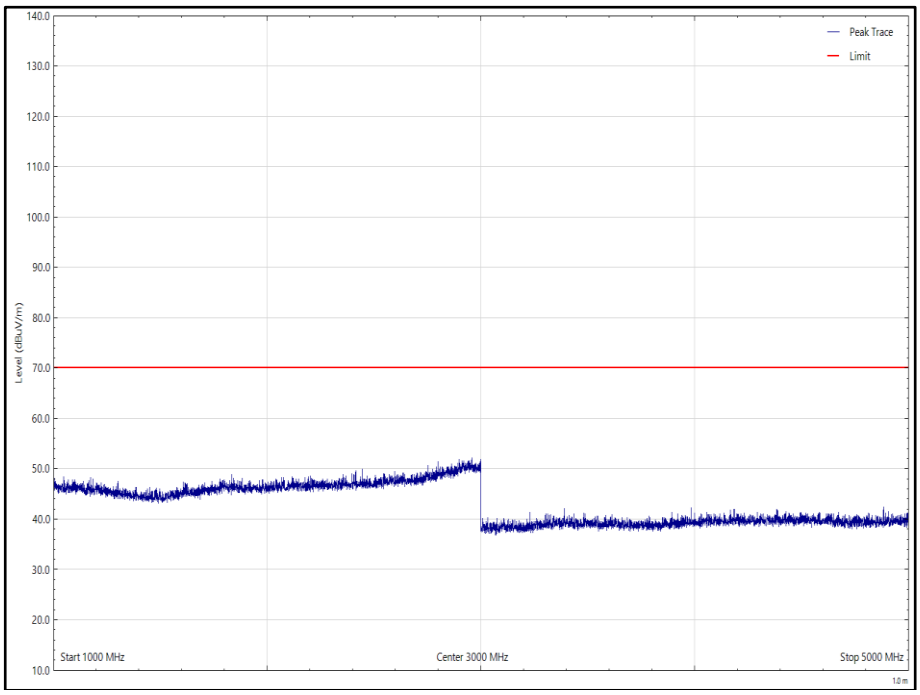

Figure 132 – 418.00 MHz – 1 GHz to 5 GHz, EUT Orientation Y Vertical

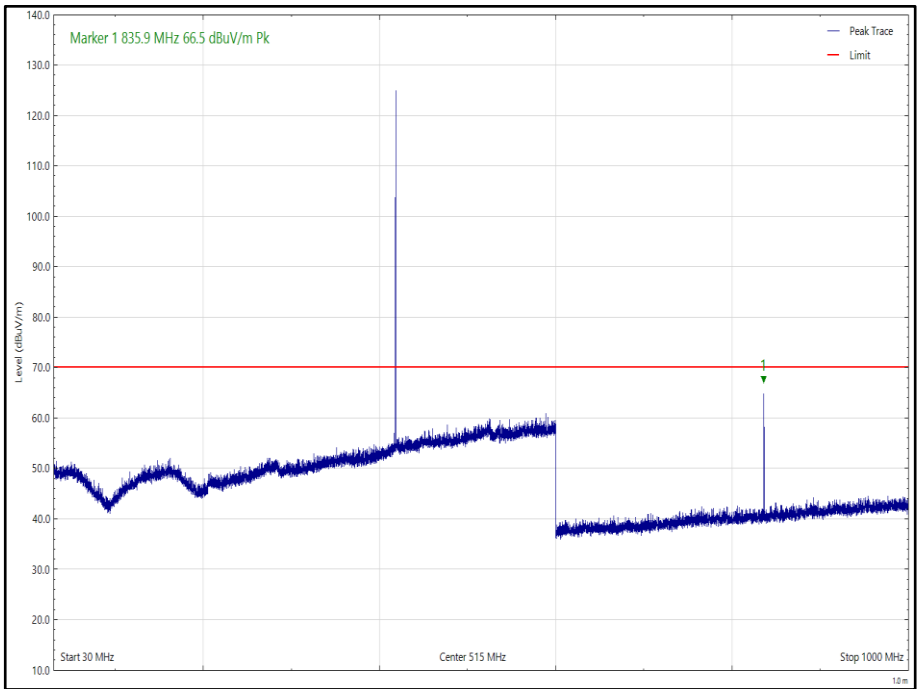

Figure 133 – 418.00 MHz - 30 MHz to 1 GHz, EUT Orientation Z Horizontal

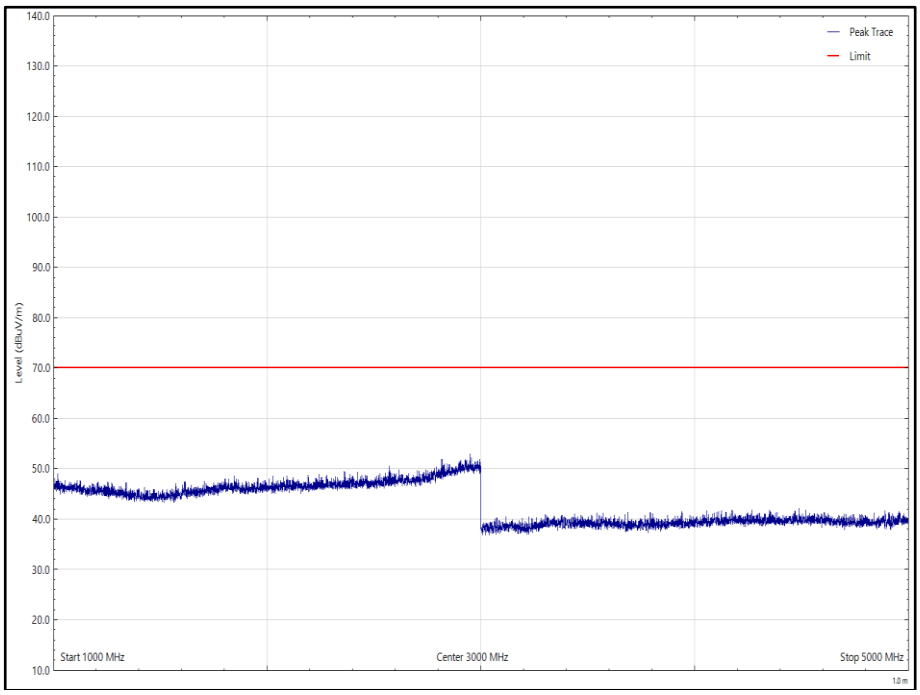

Figure 134 – 418.00 MHz – 1 GHz to 5 GHz, EUT Orientation Z Horizontal

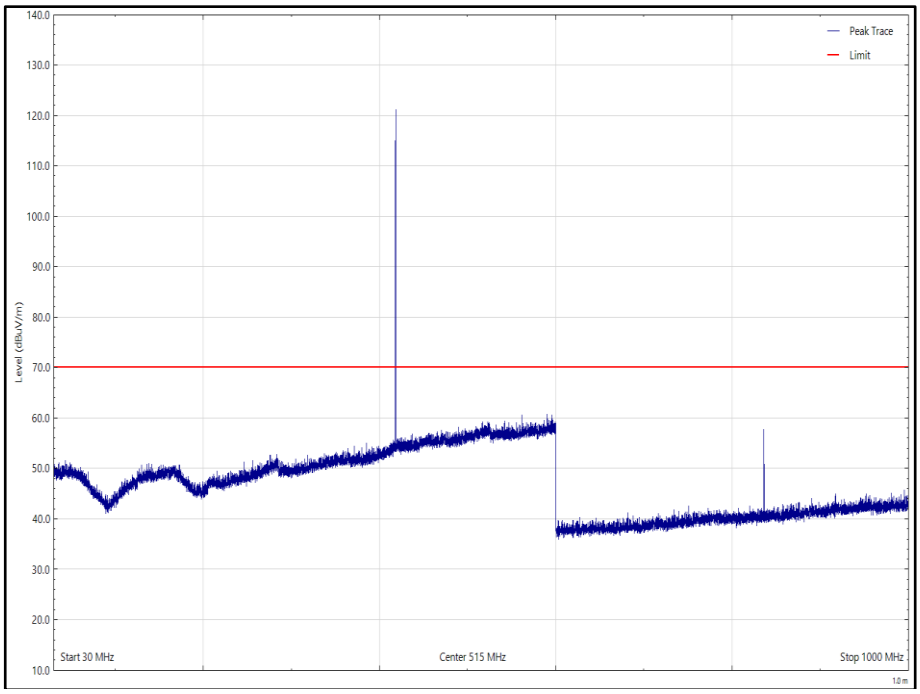

Figure 135 – 418.00 MHz - 30 MHz to 1 GHz, EUT Orientation Z Vertical

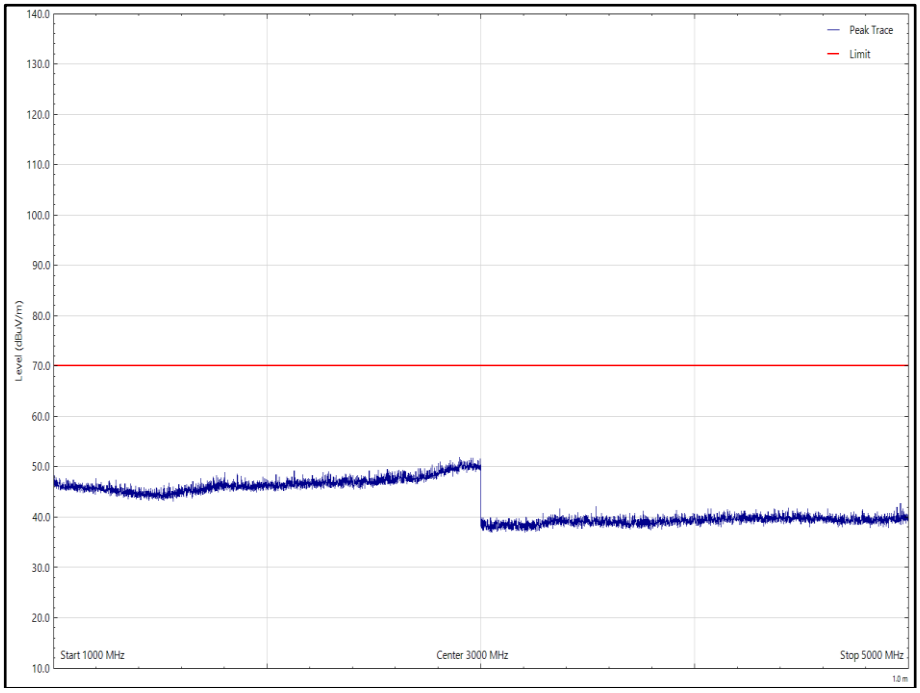

Figure 136 – 418.00 MHz – 1 GHz to 5 GHz, EUT Orientation Z Vertical

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation	Orientation
859.933	64.73	70.20	-5.47	Peak	11	100	Horizontal	X
859.985	64.73	70.20	-5.47	Peak	119	100	Horizontal	Z

Table 27 - 429.975 MHz, 30 MHz to 5 GHz

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

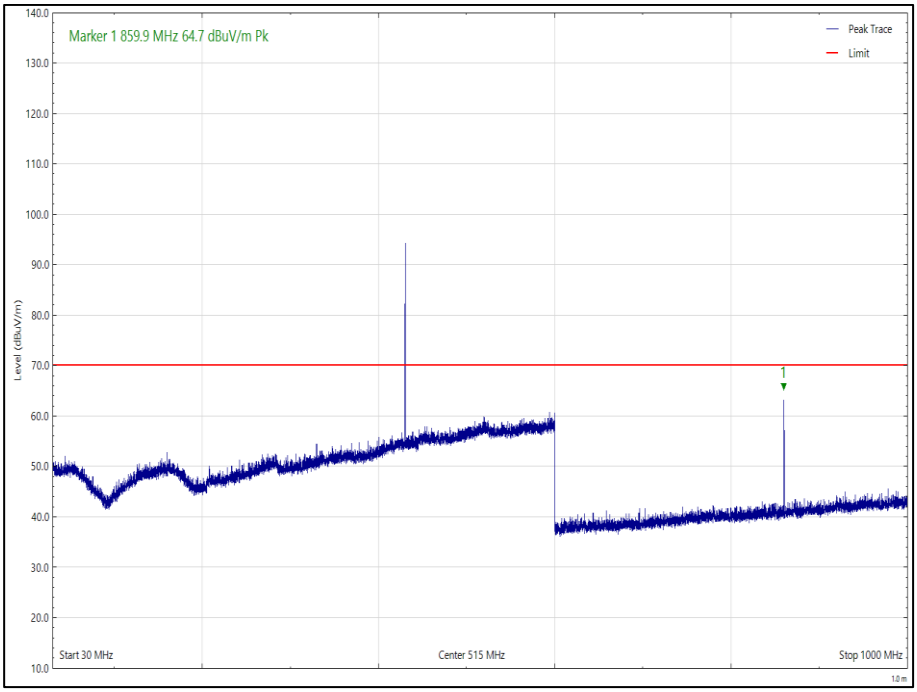

Figure 137 - 429.975 MHz - 30 MHz to 1 GHz, EUT Orientation X Horizontal

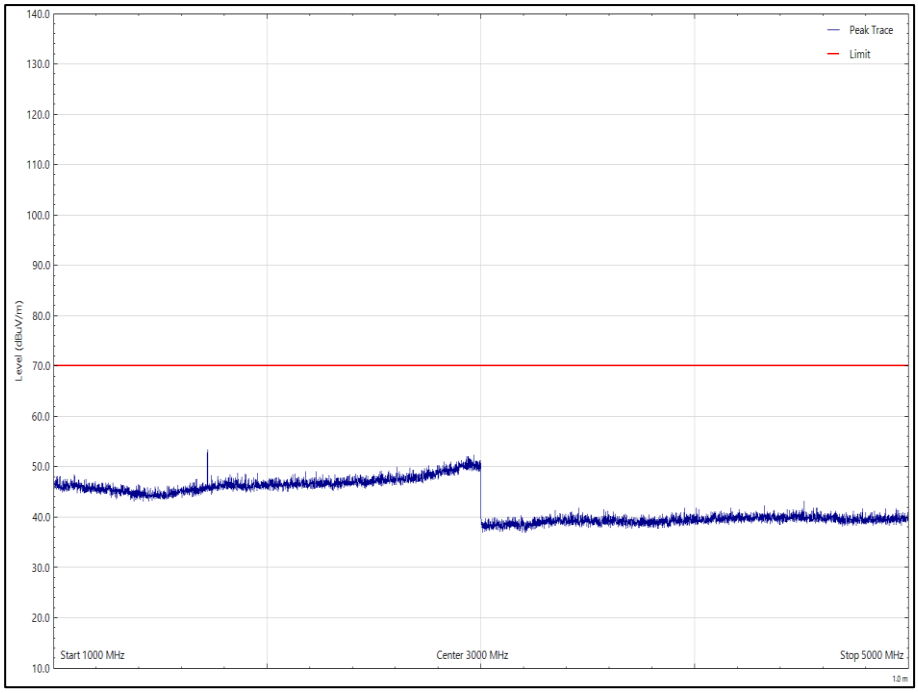

Figure 138 - 429.975 MHz - 1 GHz to 5 GHz, EUT Orientation X Horizontal

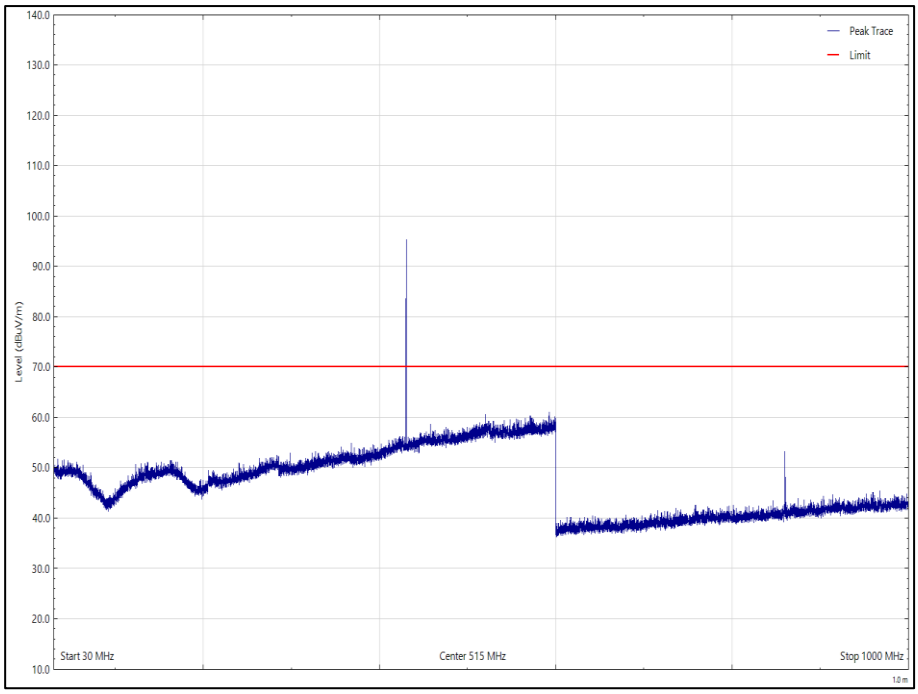

Figure 139 - 429.975 MHz - 30 MHz to 1 GHz, EUT Orientation X Vertical

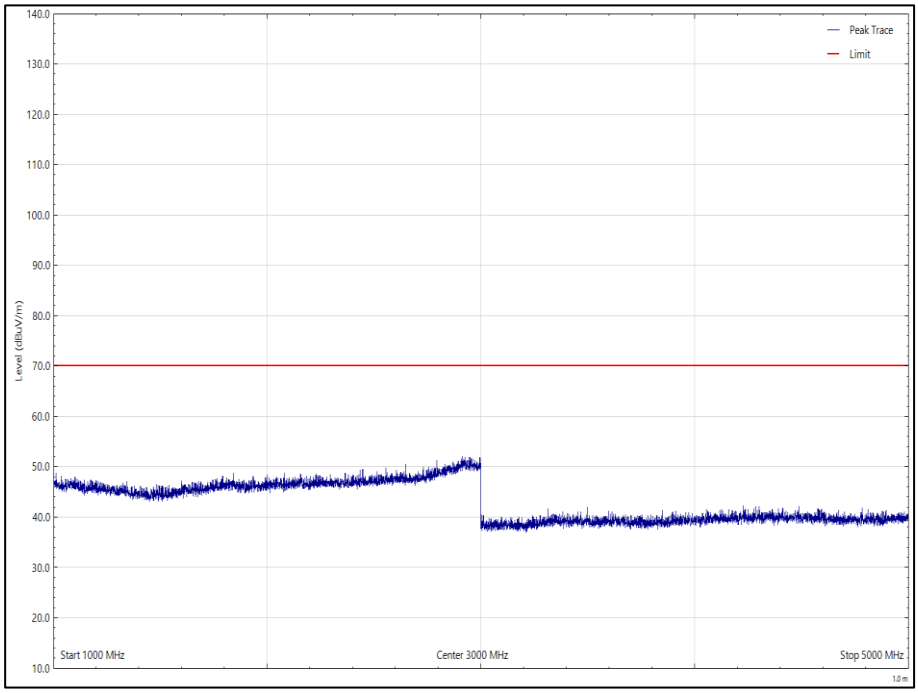

Figure 140 - 429.975 MHz - 1 GHz to 5 GHz, EUT Orientation X Vertical

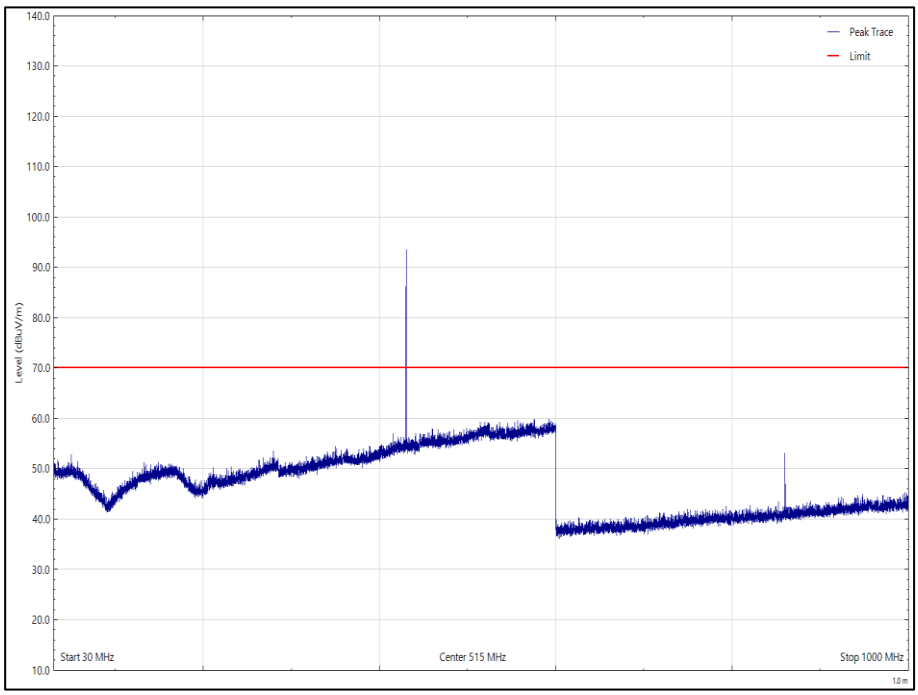

Figure 141 - 429.975 MHz - 30 MHz to 1 GHz, EUT Orientation Y Horizontal

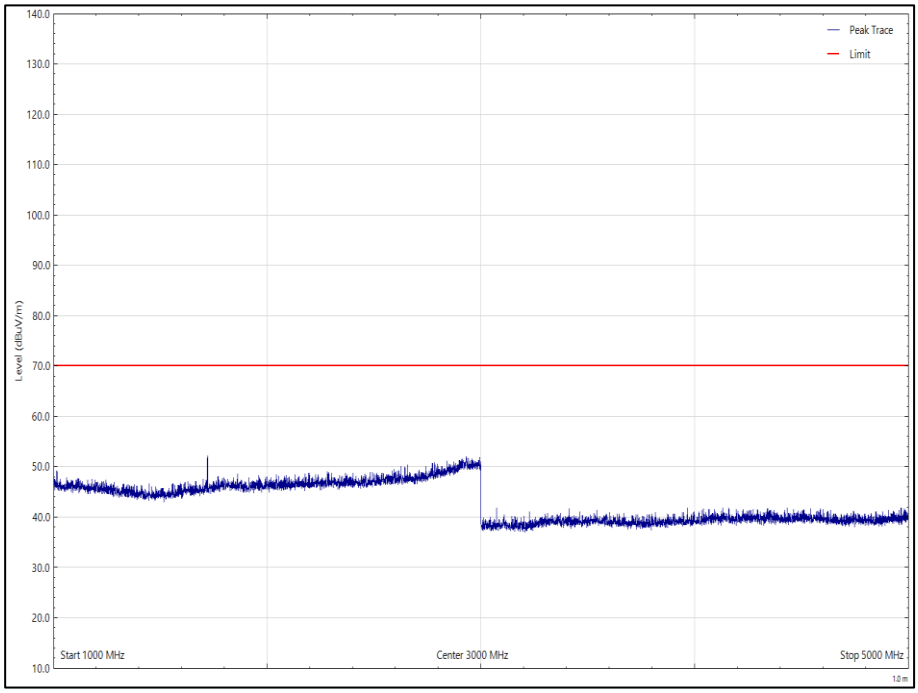

Figure 142 - 429.975 MHz - 1 GHz to 5 GHz, EUT Orientation Y Horizontal

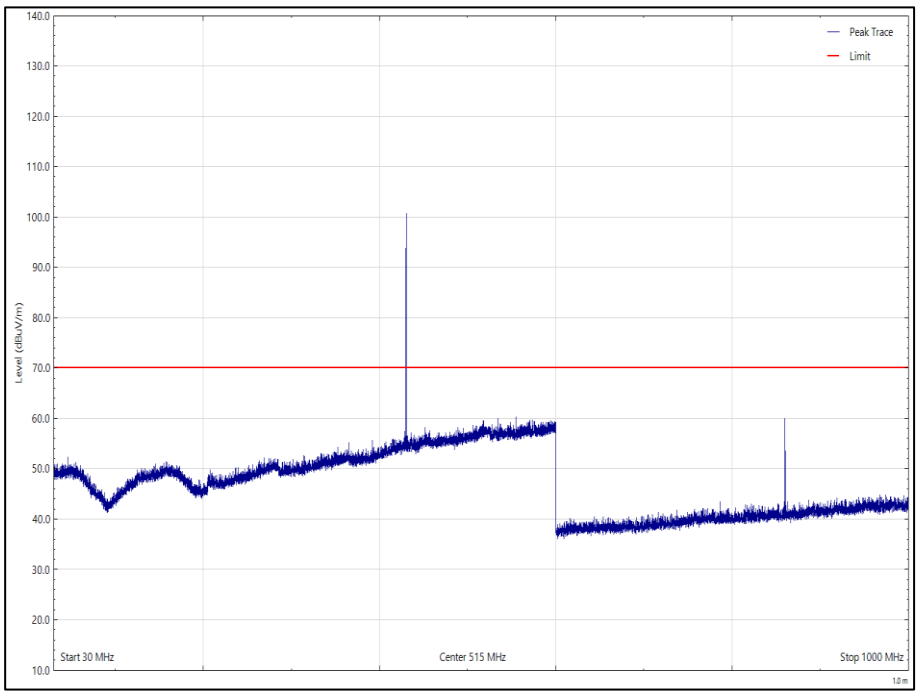

Figure 143 - 429.975 MHz - 30 MHz to 1 GHz, EUT Orientation Y Vertical

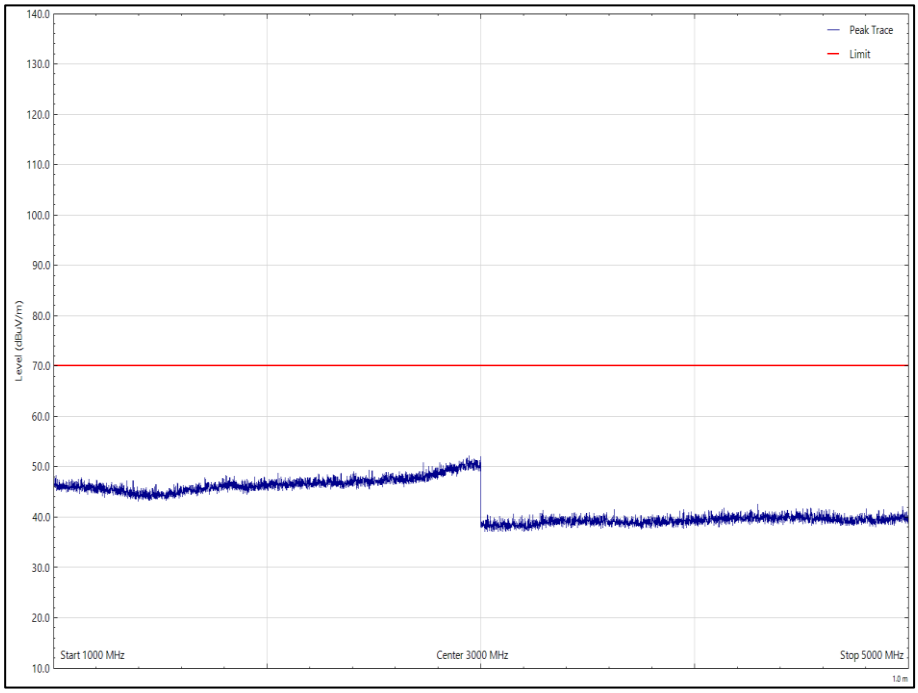

Figure 144 - 429.975 MHz - 1 GHz to 5 GHz, EUT Orientation Y Vertical

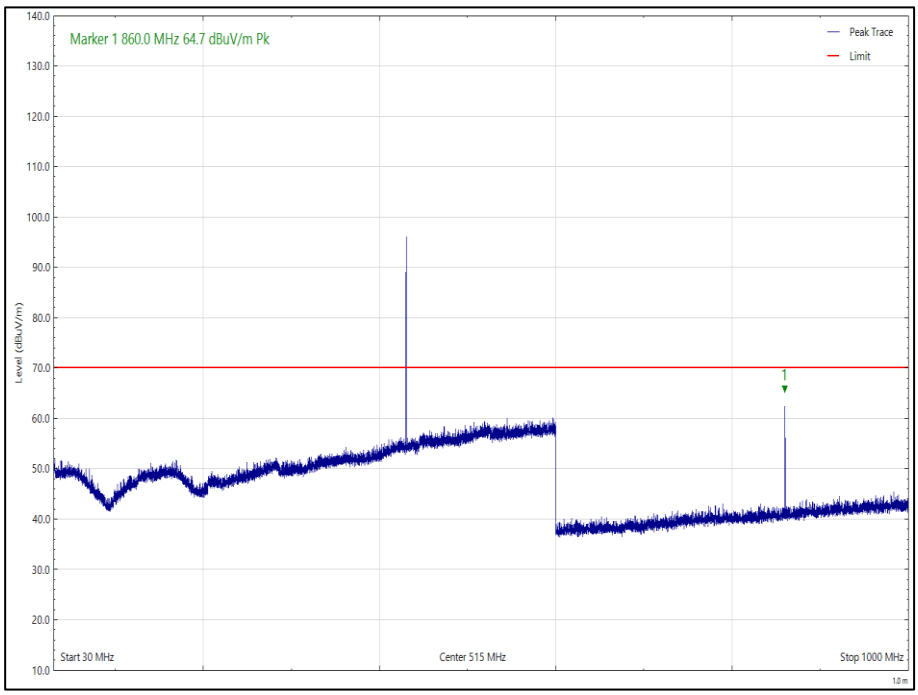

Figure 145 - 429.975 MHz - 30 MHz to 1 GHz, EUT Orientation Z Horizontal

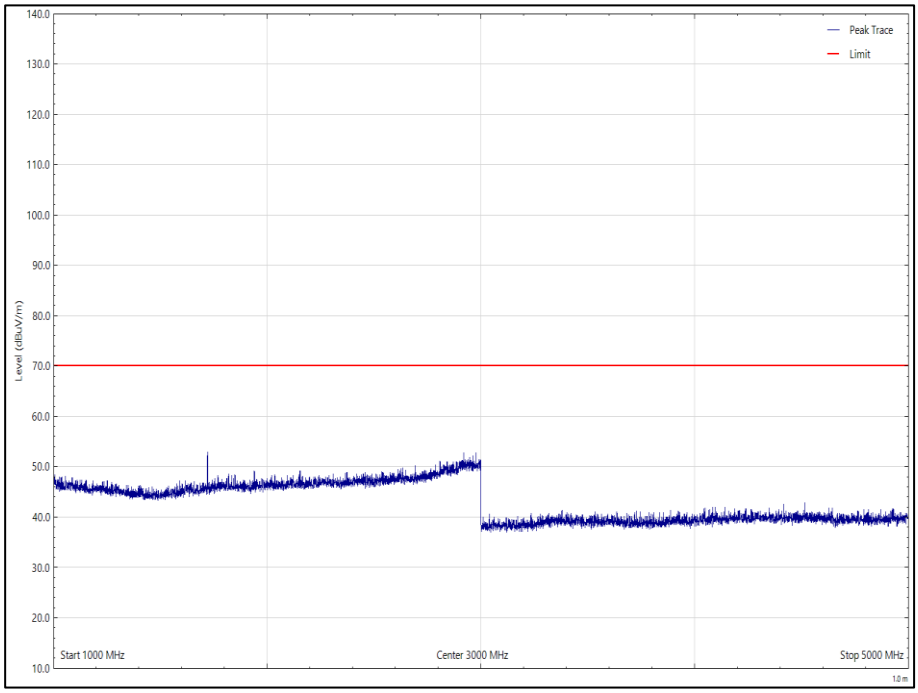

Figure 146 - 429.975 MHz - 1 GHz to 5 GHz, EUT Orientation Z Horizontal

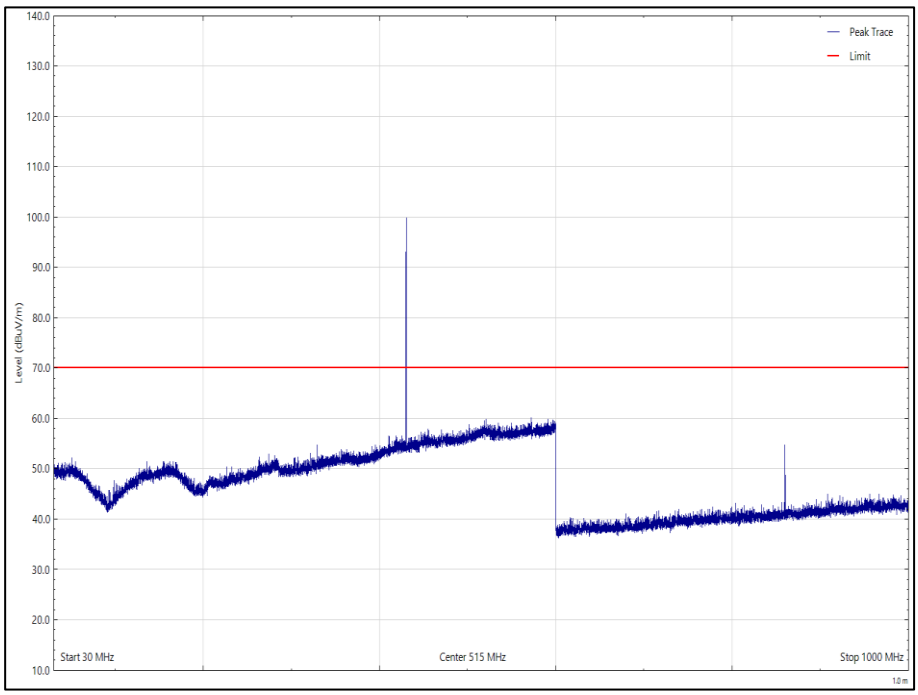

Figure 147 - 429.975 MHz - 30 MHz to 1 GHz, EUT Orientation Z Vertical

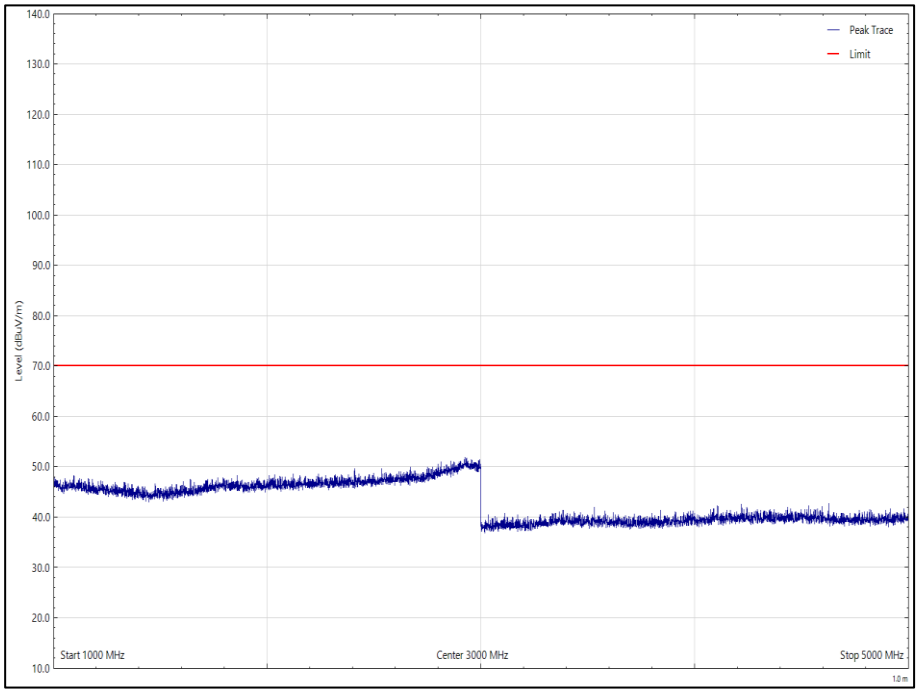

Figure 148 - 429.975 MHz - 1 GHz to 5 GHz, EUT Orientation Z Vertical

FCC 47 CFR Part 90, Limit Clause 90.210

The EUT shall comply with emission mask B as per FCC 47 CFR Part 90, clause 90.210.

Industry Canada RSS-119, Limit Clause 5.8

The EUT shall comply with emission mask Y as per Industry Canada RSS-119. clause 5.8.

2.3.8 Test Location and Test Equipment Used

This test was carried out in EMC Chamber 5.

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Expires
Power Supply Unit	Hewlett Packard	6282A	132	-	TU
Screened Room (5)	Rainford	Rainford	1545	36	15-Apr-2024
Turntable Controller	Inn-Co GmbH	CO 1000	1606	-	TU
Hygropalm Temperature and Humidity Meter	Rotronic	HP21	4410	12	08-Aug-2024
Mast Controller	Maturo Gmbh	NCD	4810	-	TU
Tilt Antenna Mast	Maturo Gmbh	TAM 4.0-P	4811	-	TU
High Pass filter	Wainwright	WHKX12-1290-1500-18000-80SS	4961	12	30-May-2024
Emissions Software	TUV SUD	EmX V3.1.12	5125	-	Software
Pre-amplifier (30 dB, 1GHz to 18GHz)	Schwarzbeck	BBV 9718 C	5261	12	14-Apr-2024
Cable (SMA to SMA, 2 m)	Junkosha	MWX221-02000AMSAMS/A	5517	12	21-May-2024
Cable (N-Type to N-Type, 8 m)	Junkosha	MWX221-08000NMSNMS/B	5521	12	05-Jun-2024
EMI Test Receiver	Rohde & Schwarz	ESW44	5527	12	15-Jun-2024
3 GHz High pass Filter	Wainwright	WHKX12-2580-3000-18000-80SS	5548	12	16-Aug-2024
DVM - Digital Multimeter	Iso-tech	IDM101	5601	12	20-Feb-2024
Antenna (DRG, 1 GHz to 10.5 GHz)	Schwarzbeck	BBHA9120B	5611	12	15-Oct-2024
Cable (K-Type to K-Type, 2 m)	Junkosha	MWX241-02000KMSKMS/B	5934	12	18-Jun-2024
Coaxial Fixed Attenuator DC-18GHz 5W 10dB	RF-Lambda	RFS5G18B10SMP	6179	12	11-Oct-2024
Attenuator 4dB	Pasternack	PE7074-4	6201	24	16-Jul-2024
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9168	6635	24	13-Jun-2025

Table 28

TU - Traceability Unscheduled

3 Measurement Uncertainty

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

Test Name	Measurement Uncertainty
Maximum Conducted Output Power	± 3.2 dB
Spurious Emissions at Antenna Terminals	± 3.45 dB
Radiated Spurious Emissions	30 MHz to 1 GHz: ± 5.2 dB 1 GHz to 18 GHz: ± 6.3 dB

Table 29

Measurement Uncertainty Decision Rule – Accuracy Method

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115:2021, Clause 4.4.3 (Procedure 2). The measurement results are directly compared with the test limit to determine conformance with the requirements of the standard.

Risk: The uncertainty of measurement about the measured result is negligible with regard to the final pass/fail decision. The measurement result can be directly compared with the test limit to determine conformance with the requirement (compare IEC Guide 115). The level of risk to falsely accept and falsely reject items is further described in ILAC-G8.