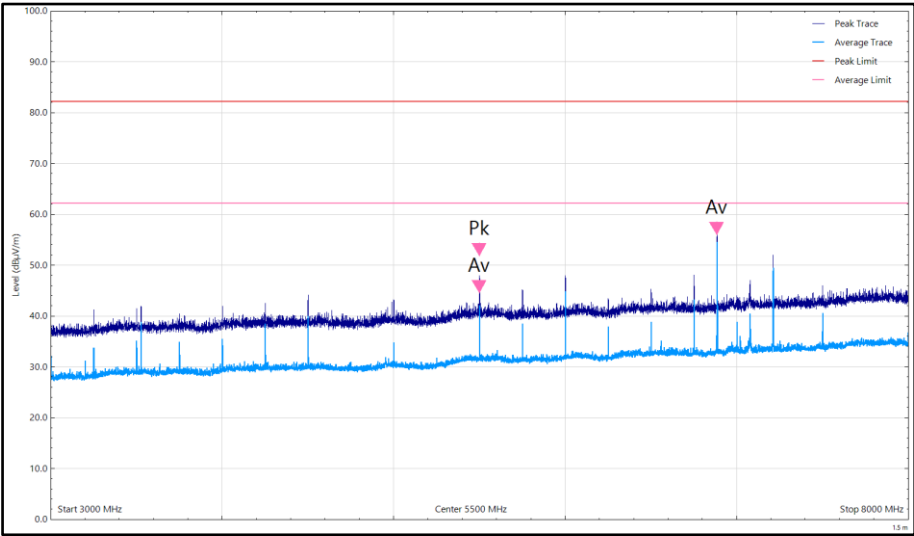
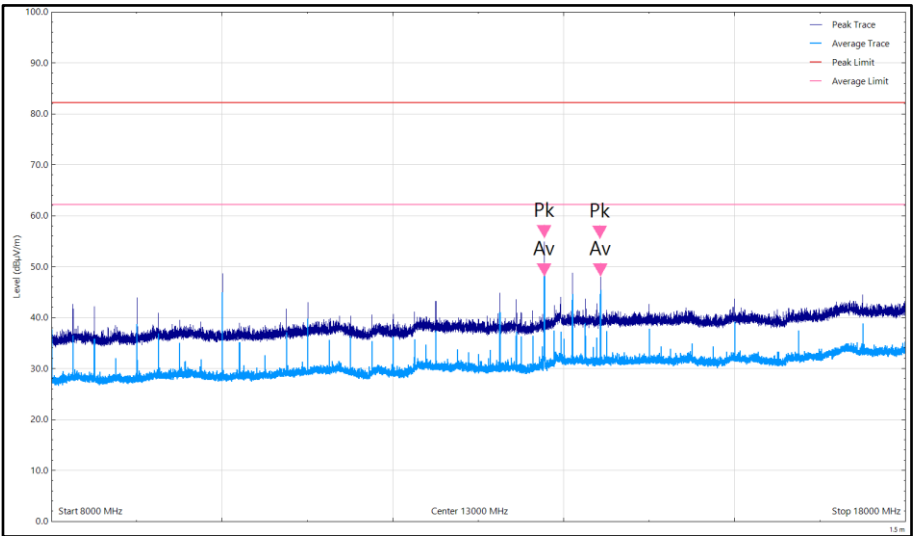




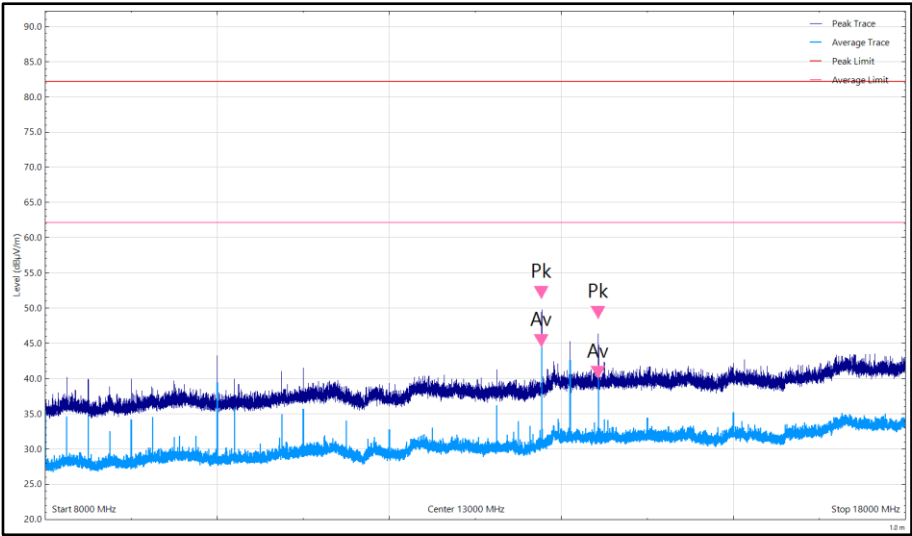
LTE Band 5, 1 GHz to 3 GHz, Vertical

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
13771.200	47.76	62.20	-14.44	Average	3	342	Horizontal
13771.500	55.35	82.20	-26.85	Peak	3	342	Horizontal
13772.400	44.26	62.20	-17.94	Average	29	341	Vertical
13773.200	51.08	82.20	-31.12	Peak	29	341	Vertical
14428.700	55.17	82.20	-27.03	Peak	25	364	Horizontal
14429.200	47.85	62.20	-14.35	Average	25	364	Horizontal
14430.200	39.74	62.20	-22.46	Average	66	383	Vertical
14430.800	48.27	82.20	-33.93	Peak	66	383	Vertical

LTE Band 5 – 8 GHz to 18 GHz



LTE Band 5, 8 GHz to 18 GHz, Horizontal



LTE Band 5, 8 GHz to 18 GHz, Vertical

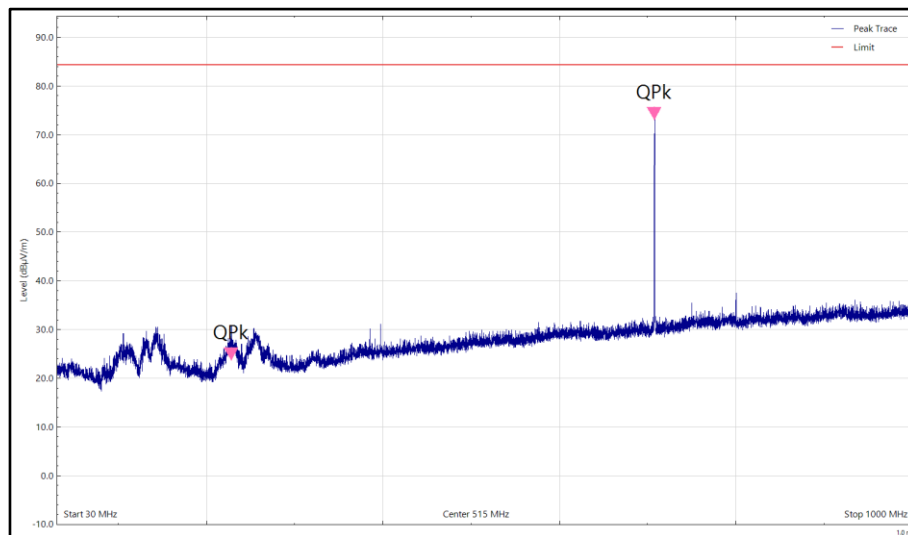
2.7.12 Test Results Band 12

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
48.074	31.75	84.40	-52.65	Q-Peak	261	100	Vertical
228.163	23.38	84.40	-61.02	Q-Peak	211	128	Horizontal
707.937	LTE B12 UL			Q-Peak	147	101	Horizontal
749.999	39.35	84.40	-45.05	Q-Peak	193	112	Vertical
800.006	39.81	84.40	-44.59	Q-Peak	122	100	Vertical

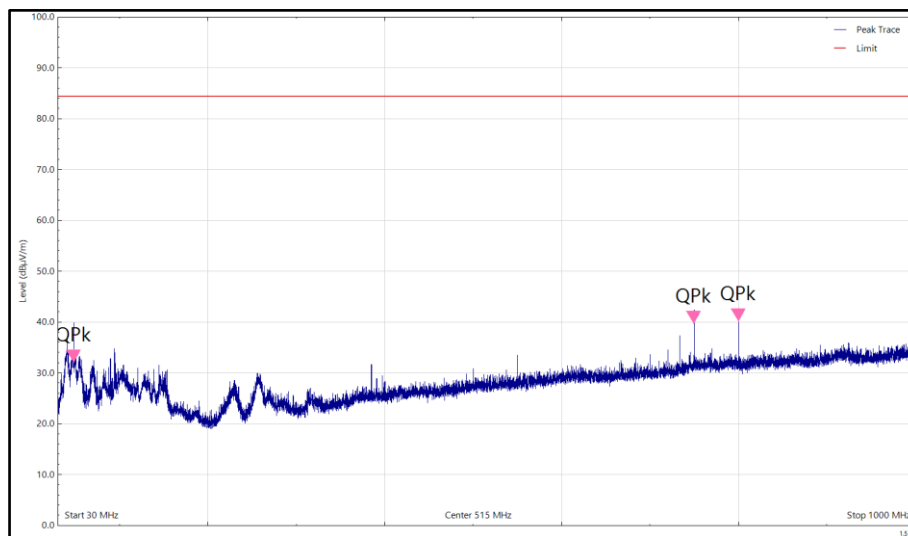
LTE Band 12 – 30 MHz to 1 GHz

Note:

Emissions from LTE fundamental signal will be ignored for this test.



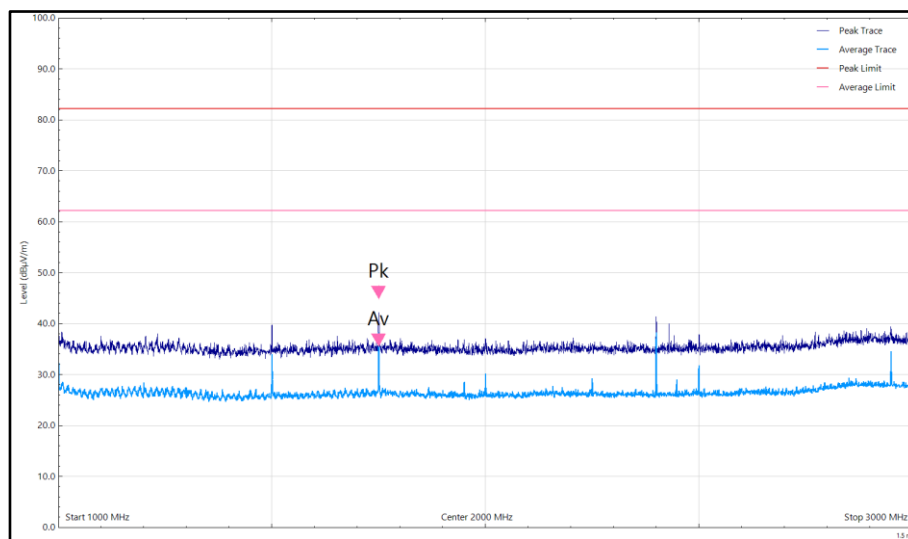
LTE Band 12, 30 MHz to 1 GHz, Horizontal (Peak)



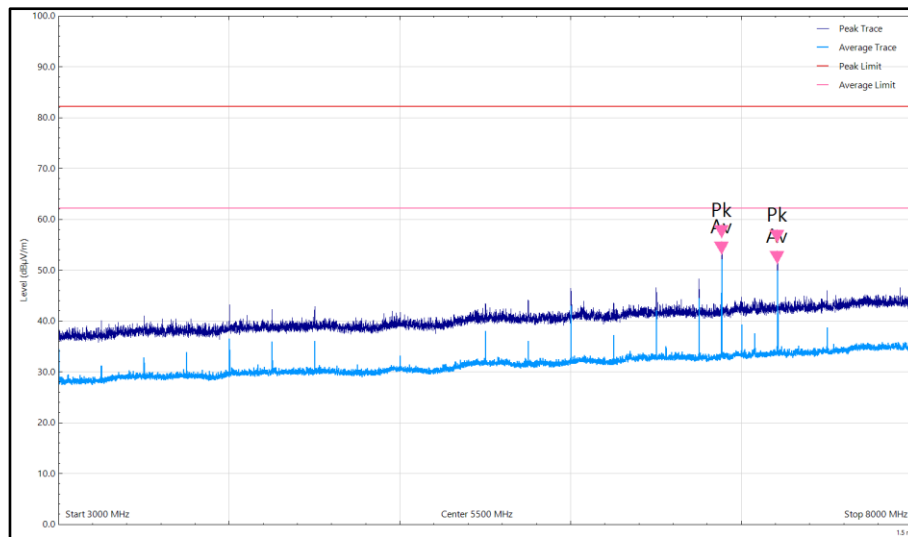
LTE Band 12, 30 MHz to 1 GHz, Vertical (Peak)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
1749.860	41.93	82.20	-40.27	Peak	43	102	Vertical
1750.000	30.59	62.20	-31.61	Average	43	102	Vertical
1750.000	35.18	62.20	-27.02	Average	47	150	Horizontal
1750.070	44.60	82.20	-37.60	Peak	47	150	Horizontal
2400.059	27.96	62.20	-34.24	Average	153	353	Vertical
5499.790	49.31	82.20	-32.89	Peak	200	108	Vertical
5500.000	41.55	62.20	-20.65	Average	200	108	Vertical
6883.780	52.83	62.20	-9.37	Average	354	363	Horizontal
6884.010	54.48	62.20	-7.72	Average	180	201	Vertical
6884.129	55.97	82.20	-26.23	Peak	354	363	Horizontal
7210.769	50.88	62.20	-11.32	Average	80	358	Horizontal
7211.259	55.03	82.20	-27.17	Peak	80	358	Horizontal

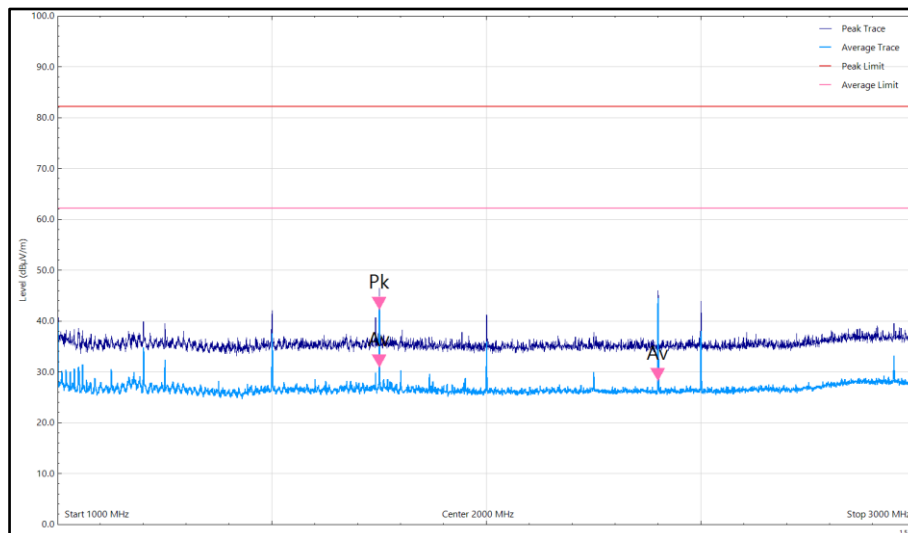
LTE Band 12 – 1 GHz to 8 GHz



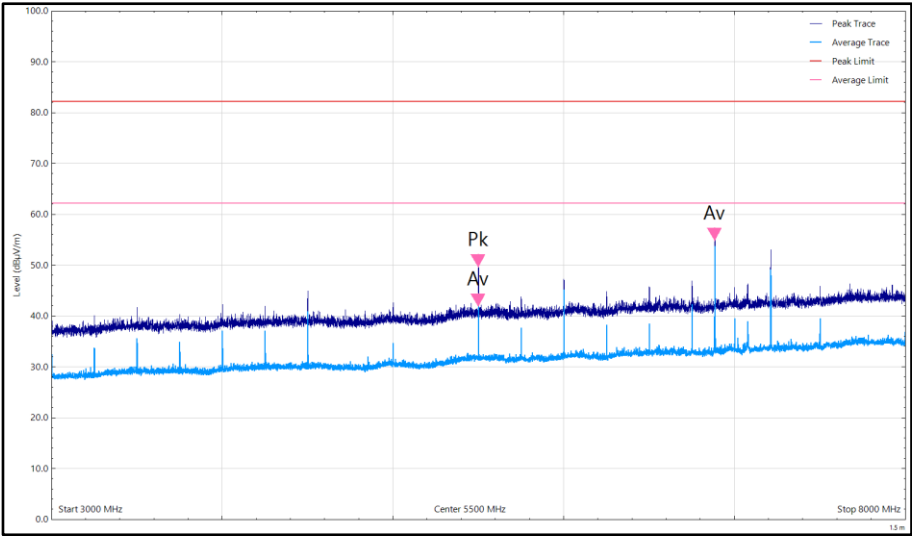
LTE Band 12, 1 GHz to 3 GHz, Horizontal



LTE Band 12, 3 GHz to 8 GHz, Horizontal



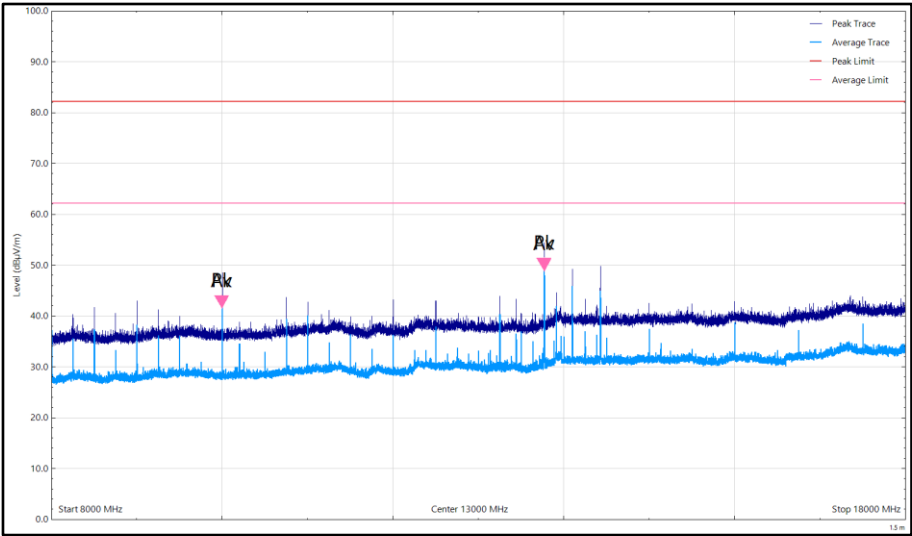
LTE Band 12, 1 GHz to 3 GHz, Vertical



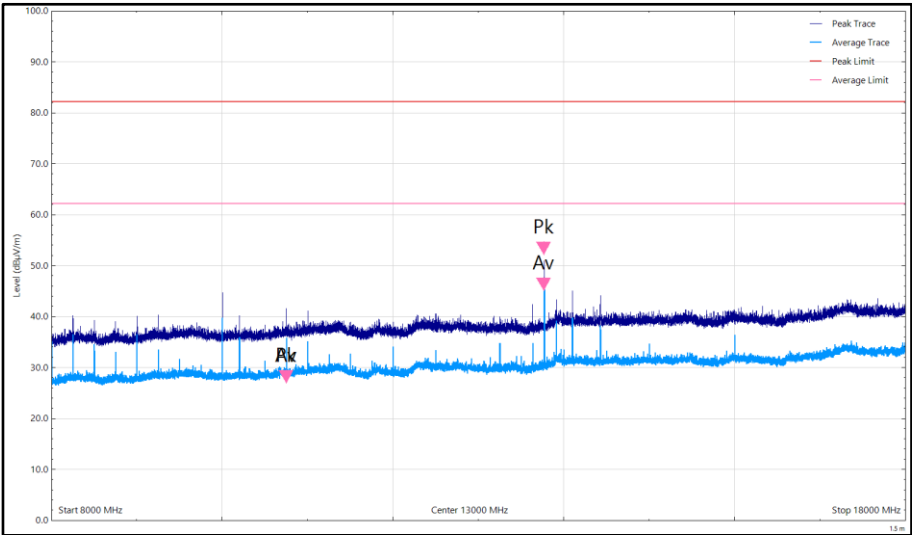
LTE Band 12, 3 GHz to 8 GHz, Vertical

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
9999.990	41.22	82.20	-40.98	Peak	330	368	Horizontal
9999.990	41.21	62.20	-20.99	Average	330	368	Horizontal
10750.000	26.61	82.20	-55.59	Peak	320	102	Vertical
10750.000	26.60	62.20	-35.60	Average	320	102	Vertical
13770.950	44.77	62.20	-17.43	Average	35	349	Vertical
13770.950	51.89	82.20	-30.31	Peak	35	349	Vertical
13771.115	48.61	82.20	-33.59	Peak	35	324	Horizontal
13771.115	48.55	62.20	-13.65	Average	35	324	Horizontal

LTE Band 12 – 1 GHz to 8 GHz



LTE Band 12, 8 GHz to 18 GHz, Horizontal



LTE Band 12, 8 GHz to 18 GHz, Vertical

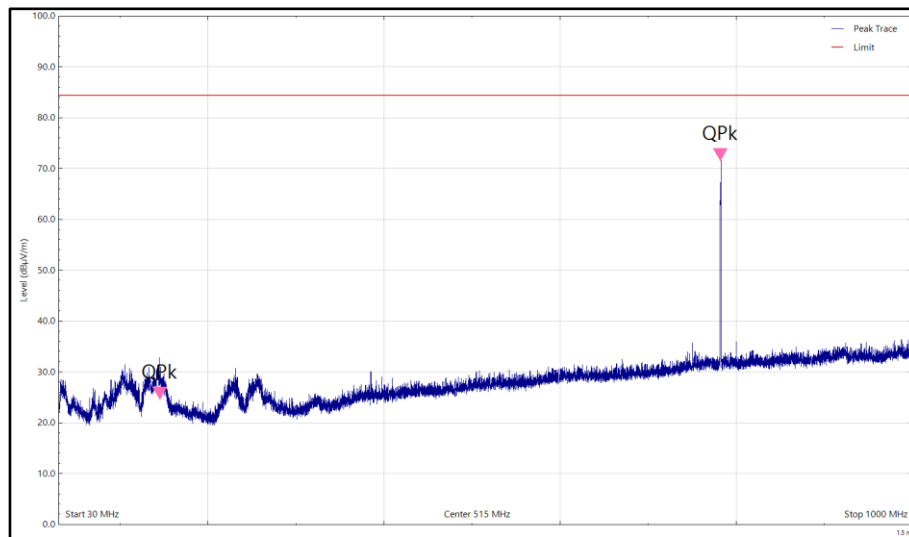
2.7.13 Test Results Band 13

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
48.031	29.47	84.40	-54.93	Q-Peak	339	100	Vertical
145.424	24.22	84.40	-60.18	Q-Peak	252	136	Horizontal
749.998	40.16	84.40	-44.24	Q-Peak	194	100	Vertical
782.458	LTE B 13 UL			Q-Peak	184	100	Horizontal
783.894	LTE B13 UL			Q-Peak	360	100	Vertical

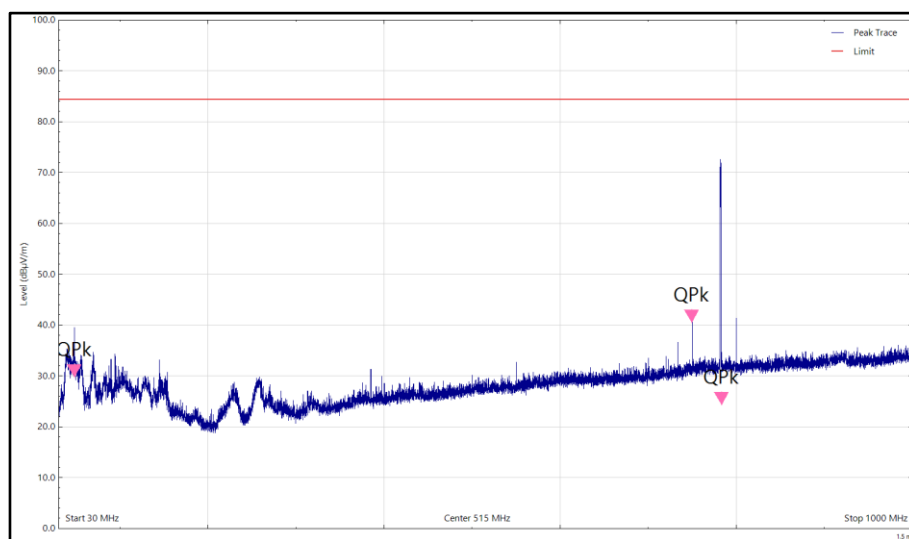
LTE Band 13 – 30 MHz to 1 GHz

Note:

Emissions from LTE fundamental signal will be ignored for this test.



LTE Band 13, 30 MHz to 1 GHz, Horizontal (Peak)



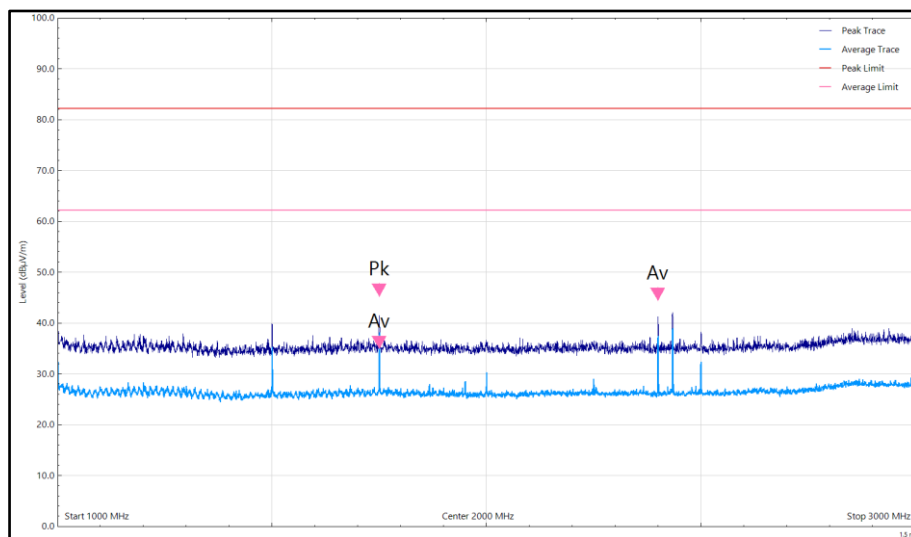
LTE Band 13, 30 MHz to 1 GHz, Vertical (Peak)



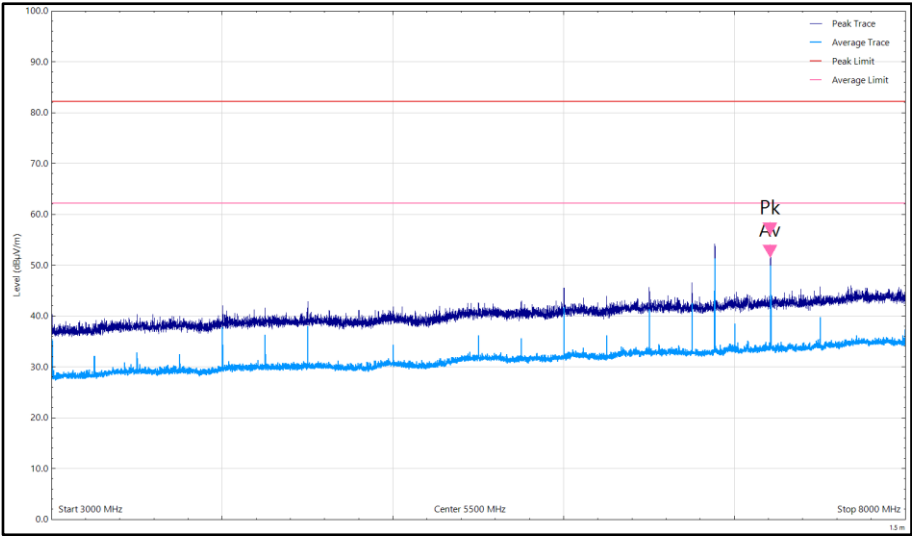
America

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
1749.930	43.16	82.20	-39.04	Peak	44	111	Vertical
1749.990	34.60	62.20	-27.60	Average	243	135	Horizontal
1750.070	32.88	62.20	-29.32	Average	44	111	Vertical
1750.129	44.97	82.20	-37.23	Peak	243	135	Horizontal
2400.000	31.34	62.20	-30.86	Average	143	243	Vertical
2400.003	44.11	62.20	-18.09	Average	284	364	Horizontal
5500.000	44.08	62.20	-18.12	Average	199	220	Vertical
5500.070	51.25	82.20	-30.95	Peak	199	220	Vertical
6884.070	52.25	62.20	-9.95	Average	181	105	Vertical
7210.860	51.21	62.20	-10.99	Average	80	361	Horizontal
7211.070	55.55	82.20	-26.65	Peak	80	361	Horizontal

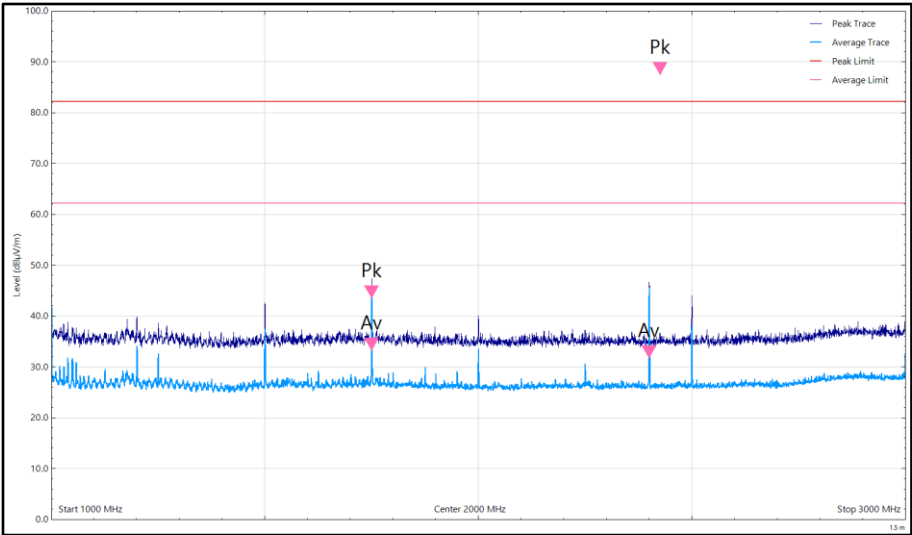
LTE Band 13 – 1 GHz to 8 GHz



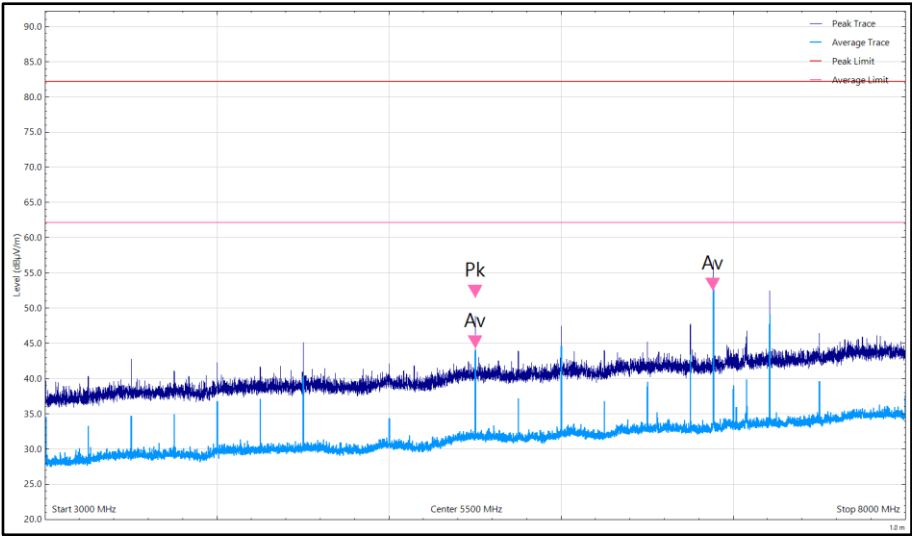
LTE Band 13, 1 GHz to 3 GHz, Horizontal



LTE Band 13, 3 GHz to 8 GHz, Horizontal



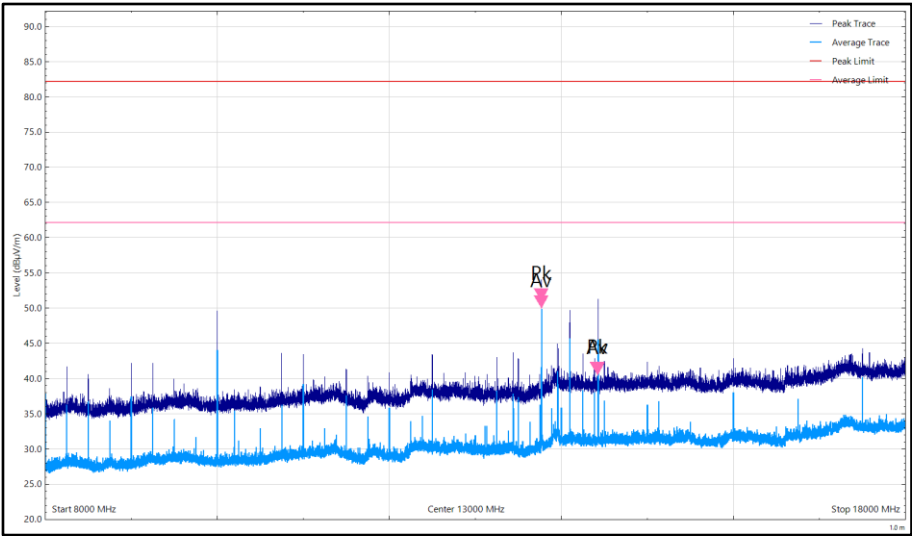
LTE Band 13, 1 GHz to 3 GHz, Vertical



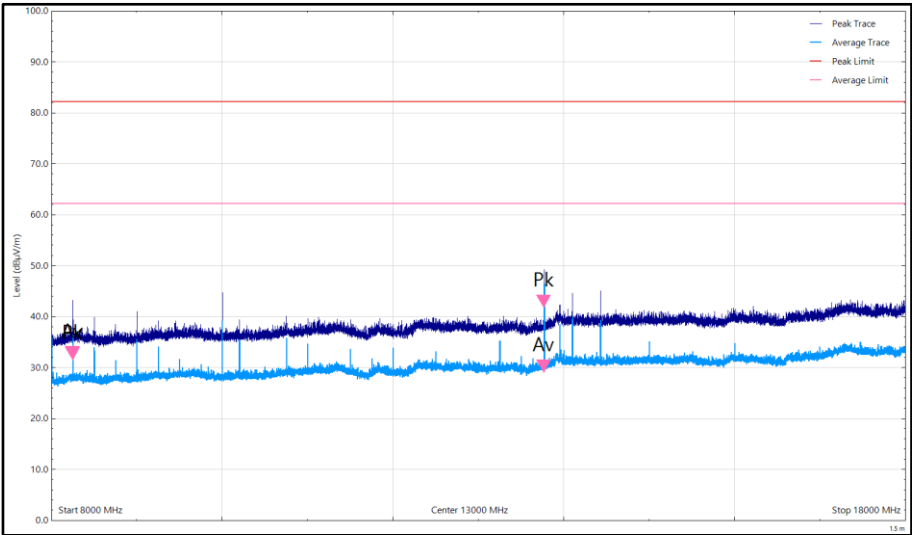
LTE Band 13, 3 GHz to 8 GHz, Vertical

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
8249.980	31.18	82.20	-51.02	Peak	318	345	Vertical
8249.980	31.39	62.20	-30.81	Average	318	345	Vertical
13770.285	50.76	82.20	-31.44	Peak	2	347	Horizontal
13770.285	49.78	62.20	-12.42	Average	2	347	Horizontal
13770.810	28.76	62.20	-33.44	Average	29	102	Vertical
13770.810	41.43	82.20	-40.77	Peak	29	102	Vertical
14428.365	40.24	62.20	-21.96	Average	321	383	Horizontal
14428.365	40.35	82.20	-41.85	Peak	321	383	Horizontal

LTE Band 13 – 1 GHz to 8 GHz



LTE Band 13, 8 GHz to 18 GHz, Horizontal

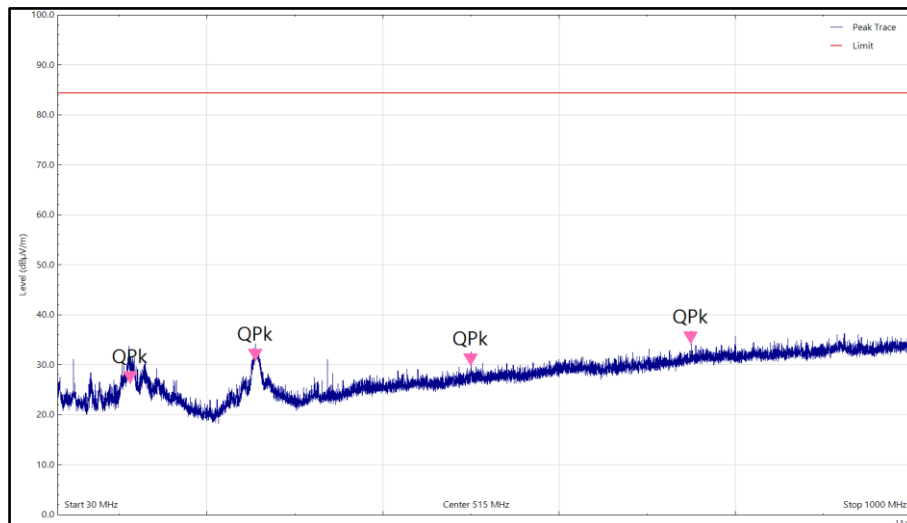


LTE Band 13, 8 GHz to 18 GHz, Vertical

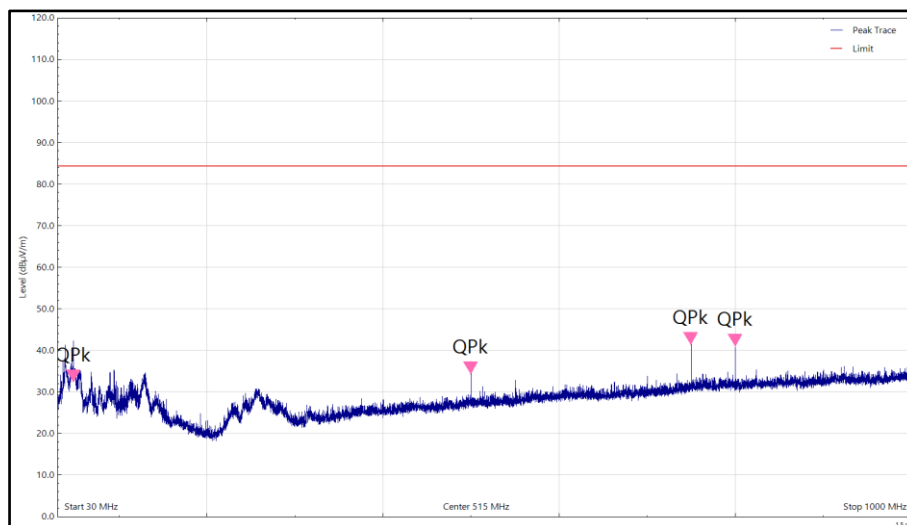
2.7.14 Test Results Band 66

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
48.134	32.00	84.40	-52.40	Q-Peak	321	100	Vertical
112.703	25.84	84.40	-58.56	Q-Peak	267	100	Horizontal
255.280	30.32	84.40	-54.08	Q-Peak	190	100	Horizontal
499.990	29.40	84.40	-55.00	Q-Peak	313	100	Horizontal
500.004	33.85	84.40	-50.55	Q-Peak	214	101	Vertical
750.006	33.82	84.40	-50.58	Q-Peak	130	112	Horizontal
750.008	41.00	84.40	-43.40	Q-Peak	194	101	Vertical
799.993	40.54	84.40	-43.86	Q-Peak	64	126	Vertical

LTE Band 66 – 30 MHz to 1 GHz



LTE Band 66, 30 MHz to 1 GHz, Horizontal (Peak)



LTE Band 66, 30 MHz to 1 GHz, Vertical (Peak)



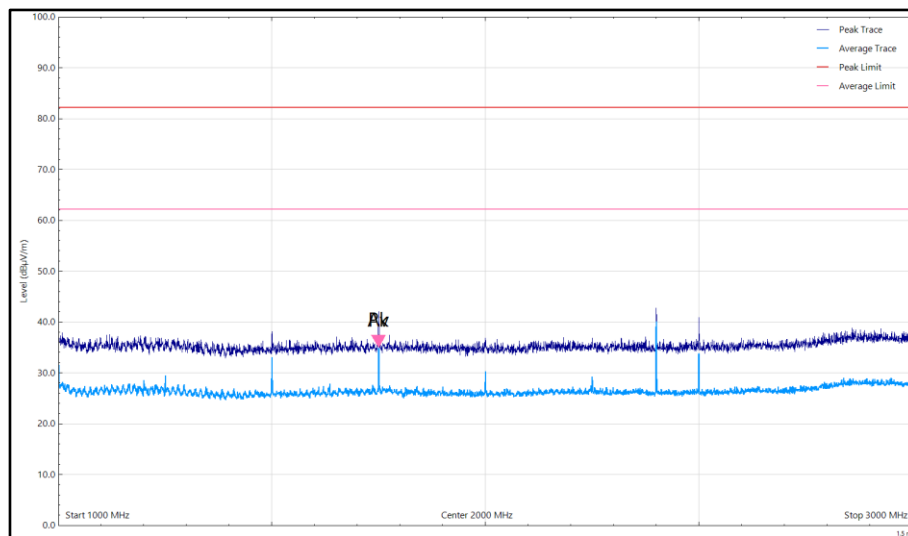
America

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
1749.880		LTE B66 UL		Average	218	136	Horizontal
1749.880		LTE B66 UL		Peak	218	136	Horizontal
1750.105		LTE B66 UL		Average	357	108	Vertical
1750.105		LTE B66 UL		Peak	357	108	Vertical
2401.780	21.90	62.20	-40.30	Average	263	290	Vertical
2401.780	31.84	82.20	-50.36	Peak	263	290	Vertical
6883.930	47.08	62.20	-15.12	Average	37	294	Horizontal
6883.930	46.54	82.20	-35.66	Peak	37	294	Horizontal
6884.225	42.83	62.20	-19.37	Average	181	110	Vertical
6884.225	42.63	82.20	-39.57	Peak	181	110	Vertical
7211.875	43.21	82.20	-38.99	Peak	341	252	Horizontal
7211.875	42.74	62.20	-19.46	Average	341	252	Horizontal
7212.075	47.64	82.20	-34.56	Peak	207	243	Vertical
7212.075	47.33	62.20	-14.87	Average	207	243	Vertical

LTE Band 66 – 1 GHz to 8 GHz

Note:

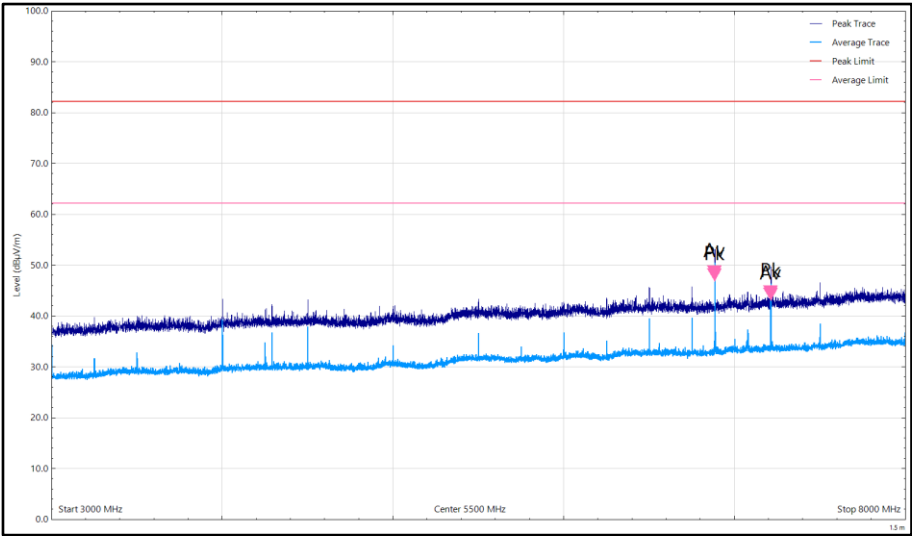
Emissions from LTE fundamental signal will be ignored for this test.



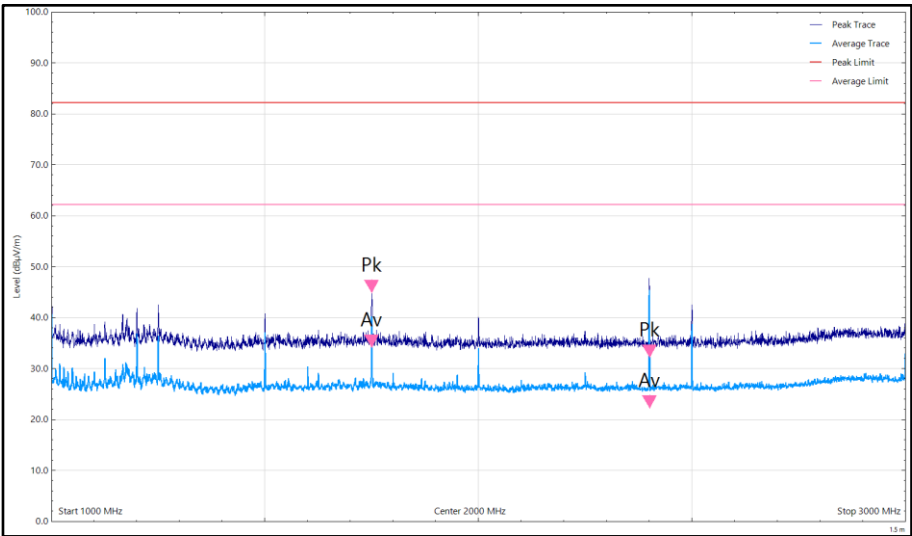
LTE Band 66, 1 GHz to 3 GHz, Horizontal



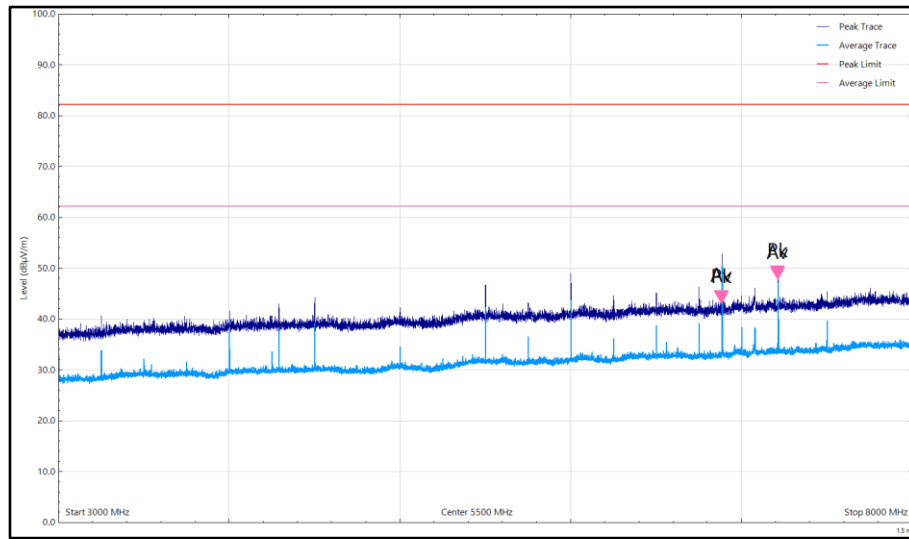
America



LTE Band 66, 3 GHz to 8 GHz, Horizontal



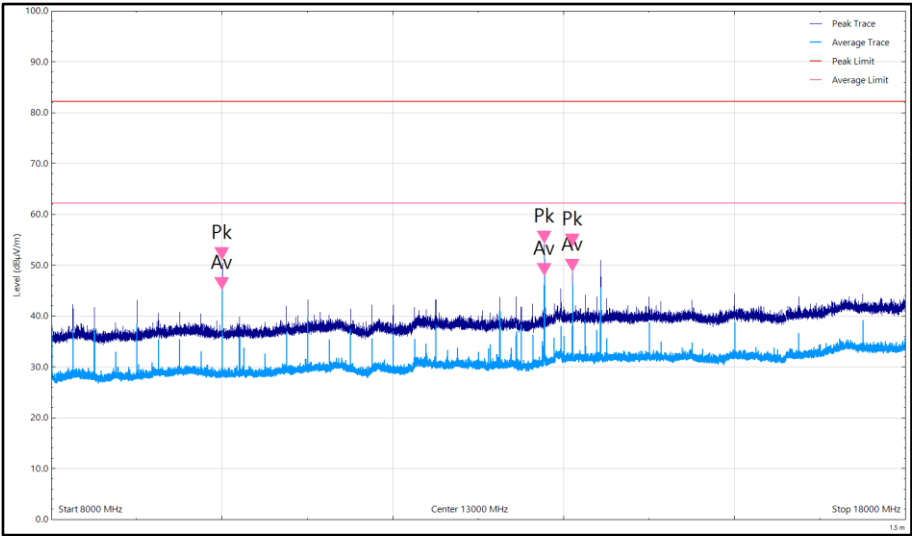
LTE Band 66, 1 GHz to 3 GHz, Vertical



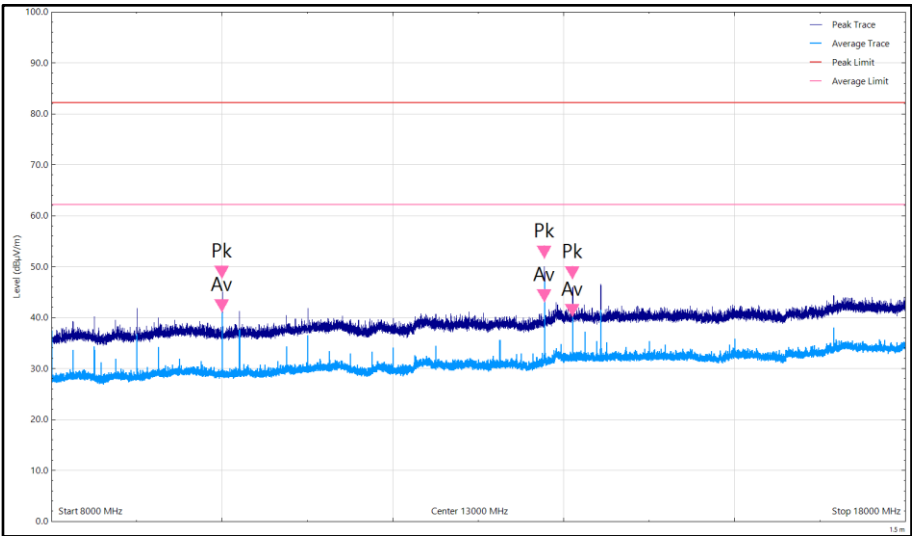
LTE Band 66, 3 GHz to 8 GHz, Vertical

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
9999.900	47.34	82.20	-34.86	Peak	14	368	Vertical
10000.000	40.79	62.20	-21.41	Average	14	368	Vertical
10000.000	44.84	62.20	-17.36	Average	354	351	Horizontal
10000.100	50.69	82.20	-31.51	Peak	354	351	Horizontal
13771.800	47.52	62.20	-14.68	Average	349	344	Horizontal
13772.000	53.96	82.20	-28.24	Peak	349	344	Horizontal
13772.900	42.67	62.20	-19.53	Average	302	345	Vertical
13773.100	51.26	82.20	-30.94	Peak	302	345	Vertical
14101.000	48.41	62.20	-13.79	Average	13	339	Horizontal
14101.100	53.32	82.20	-28.88	Peak	13	339	Horizontal
14101.400	47.18	82.20	-35.02	Peak	324	347	Vertical
14101.600	39.88	62.20	-22.32	Average	324	347	Vertical

LTE Band 66 – 8 GHz to 18 GHz



LTE Band 66, 8 GHz to 18 GHz, Horizontal

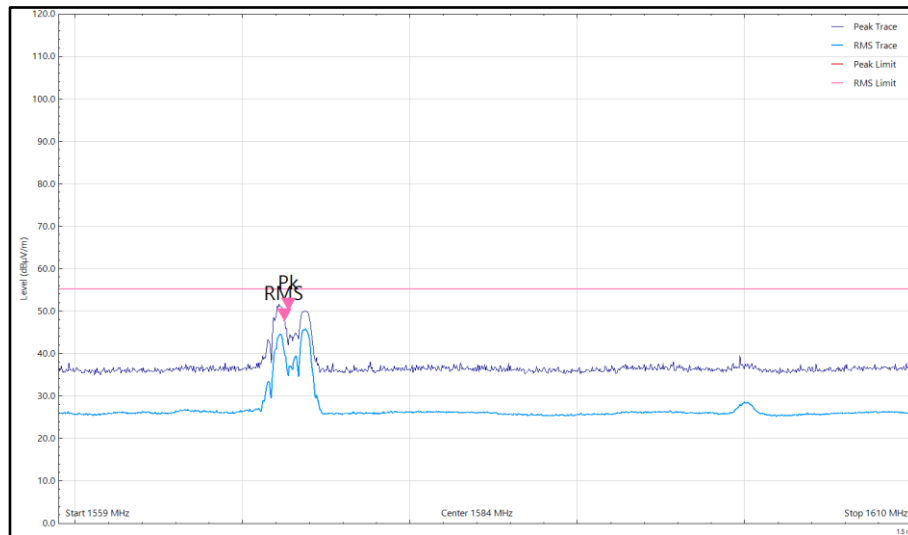


LTE Band 66, 8 GHz to 18 GHz, Vertical

2.7.15 Test Results (Emissions in the band 1559 MHz-1610 MHz) – LTE Band 13

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
1572.522	47.25	55.25	-8.00	RMS	253	150	Vertical
1572.772	49.71	55.25	-5.54	Peak	253	150	Vertical

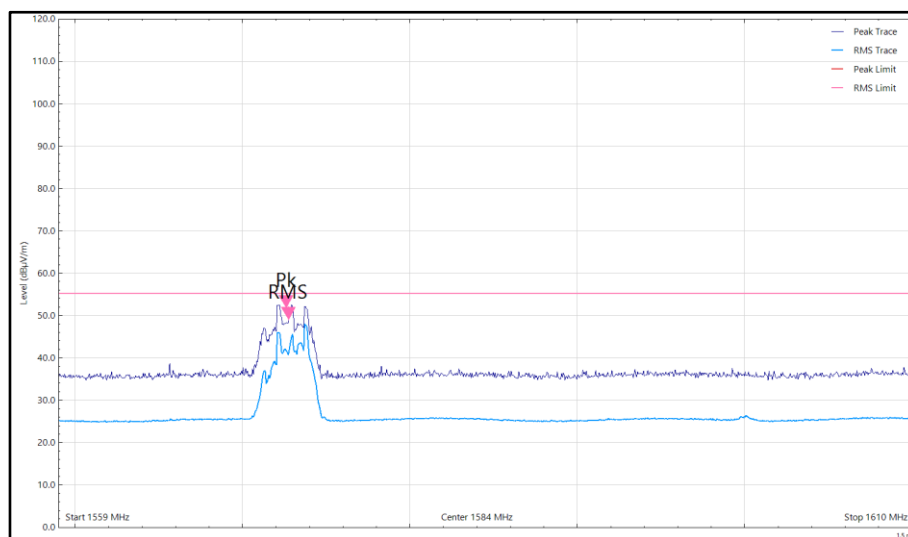
LTE Band 13 1559 MHz-1610 MHz - Vertical



LTE Band 13_1559 MHz-1610 MHz - Vertical

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
1572.632	51.39	55.25	-3.86	Peak	158	172	Horizontal
1572.762	48.62	55.25	-6.63	RMS	158	172	Horizontal

LTE Band 13 1559 MHz-1610 MHz - Horizontal



LTE Band 13_1559-1610 MHz - Horizontal



SECTION 3

3 TEST EQUIPMENT USED

3.1 TEST EQUIPMENT USED

List of absolute measuring and other principal items of test equipment.

Instrument	Manufacturer	Type No	TM-ID	Calibration Period	Calibration Expires
Transmitter Power					
Pulse Wireless Power Head	DARE	RPR3006W	30206	1 year	07-Nov-2026
Power Sensor	Agilent	N1921A	53449	1 year	13-April-2027
Power Meter	Agilent	N1911A	37854	1 year	13-April-2027
Directional Coupler	Narda	4226-20	84316	1 year	01-June-2027
OBW Emissions Mask / Spurious Emissions at Antenna Port / Suppression of Interference Aboard Ships					
Signal & Spectrum Analyzer	Rohde & Schwarz	FSW26	30188	1 year	20-Feb-2027
Directional Coupler	Narda	4226-20	84316	1 year	01-June-2027
RF Cable	Utiflex	UFB142A-10787-200200	56534	1 year	04-Nov-2026
Frequency Stability					
Signal & Spectrum Analyzer	Rohde & Schwarz	FSW26	30188	1 year	20-Feb-2027
Directional Coupler	Narda	4226-20	84316	1 year	01-June-2027
RF Cable	Utiflex	UFB142A-10787-200200	56534	1 year	04-Nov-2026
Environmental Chamber	Espec	ESL-4CA	47031	1 year	27-Jan-2027
Field Strength Spurious Emissions					
EMI Test Receiver	Rohde & Schwarz	ESW44	68302	1 year	17-Feb-2027
BiConiLog Antenna	ETS Lindgren	3142C	31446	1 year	24-Nov-2026
Trilog Broadband Antenna	Schwarzbeck	VULB 9162	00660.3105	2 years	08-Dec-2027
1-10 GHz Broad-Band Horn Antenna	Schwarzbeck Mess-Elektronik	BBHA 9120 B	69563	2 years	16-Dec-2027
7.5-18 GHz Double Ridge Horn Antenna	Schwarzbeck Mess-Elektronik	HWRD 750	69562	2 years	16-Dec-2027
7GHz to 18GHz PreAmp	CA718-403015N-FM	Ciao Wireless	78961	1 year	03-Aug-20027
TUV SSU 010 PLC US	TUV SUD UK	TUV SSU 010 PLC US	74136	1 year	04-April-2027
Miscellaneous					
Barometric Pressure/Humidity/ Temp.	Extech Instruments	SD700	68516	1 year	09-Sep-2026

NCR: NO Calibration Required.

3.2 MEASUREMENT UNCERTAINTY

Calculation of Measurement Uncertainty per CISPR 16-4-2:2011 with Corr. 1

3.2.1 AC Conducted Emissions (150kHz to 30MHz)

	Input Quantity (Contribution) X_i	Value	Prob. Dist.	Divisor	$u_i(x)$	$u_i(x)^2$
1	Receiver reading	0.10 dB	Normal, k=1	1.000	0.10	0.01
2	LISN-receiver attenuation	0.10 dB	Normal, k=2	2.000	0.05	0.00
3	LISN voltage division factor	0.25 dB	Normal, k=2	2.000	0.13	0.02
4	Receiver sinewave accuracy	0.08 dB	Normal, k=2	2.000	0.04	0.00
5	Receiver pulse amplitude	1.50 dB	Rectangular	1.732	0.87	0.75
6	Receiver pulse repetition rate	1.50 dB	Rectangular	1.732	0.87	0.75
7	Noise floor proximity	0.00 dB	Rectangular	1.732	0.00	0.00
8	AMN VDF frequency interpolation	0.10 dB	Rectangular	1.732	0.06	0.00
9	Mismatch	0.07 dB	U-shaped	1.414	0.05	0.00
10	LISN impedance	2.65 dB	Triangular	2.449	1.08	1.17
11	Effect of mains disturbance	0.00 dB			0.00	0.00
12	Effect of the environment					
Combined standard uncertainty				Normal	1.65 dB	
Expanded uncertainty				Normal, k=2	3.29 dB	

3.2.2 Radiated Emission Measurements (30MHz to 1GHz)

	Input Quantity (Contribution) X_i	Value	Prob. Dist.	Divisor	$u_i(x)$	$u_i(x)^2$
1	Receiver reading	0.10 dB	Normal, k=1	1.000	0.10	0.01
2	Attenuation: antenna-receiver	0.20 dB	Normal, k=2	2.000	0.10	0.01
3	Antenna factor AF	0.58 dB	Normal, k=2	2.000	0.29	0.08
4	Receiver sinewave accuracy	0.15 dB	Normal, k=2	2.000	0.08	0.01
5	Receiver pulse amplitude	1.50 dB	Rectangular	1.732	0.87	0.75
6	Receiver pulse repetition rate	1.50 dB	Rectangular	1.732	0.87	0.75
7	Noise floor proximity	0.50 dB	Rectangular	1.732	0.29	0.08
8	Mismatch: antenna-receiver	0.95 dB	U-shaped	1.414	0.67	0.45
9	AF frequency interpolation	0.30 dB	Rectangular	1.732	0.17	0.03
10	AF height deviations	0.10 dB	Rectangular	1.732	0.06	0.00
11	Directivity difference at 3 m	3.12 dB	Rectangular	1.732	1.80	3.24
12	Phase center location at 3 m	1.00 dB	Rectangular	1.732	0.58	0.33
13	Cross-polarization	0.90 dB	Rectangular	1.732	0.52	0.27
14	Balance	0.00 dB	Rectangular	1.732	0.00	0.00
15	Site imperfections	3.99 dB	Triangular	2.449	1.63	2.65
16	Separation distance at 3 m	0.30 dB	Rectangular	1.732	0.17	0.03
17	Effect of setup table material	0.57 dB	Rectangular	1.732	0.33	0.11
18	Table height at 3 m	0.10 dB	Normal, k=2	2.000	0.05	0.00
19	Near-field effects	0.00 dB	Triangular	2.449	0.00	0.00
20	Effect of ambient noise on OATS	0.00 dB				0.00
Combined standard uncertainty			Normal	2.97	dB	
Expanded uncertainty			Normal, k=2	5.94	dB	

3.2.3 Radiated Emission Measurements (Above 1GHz)

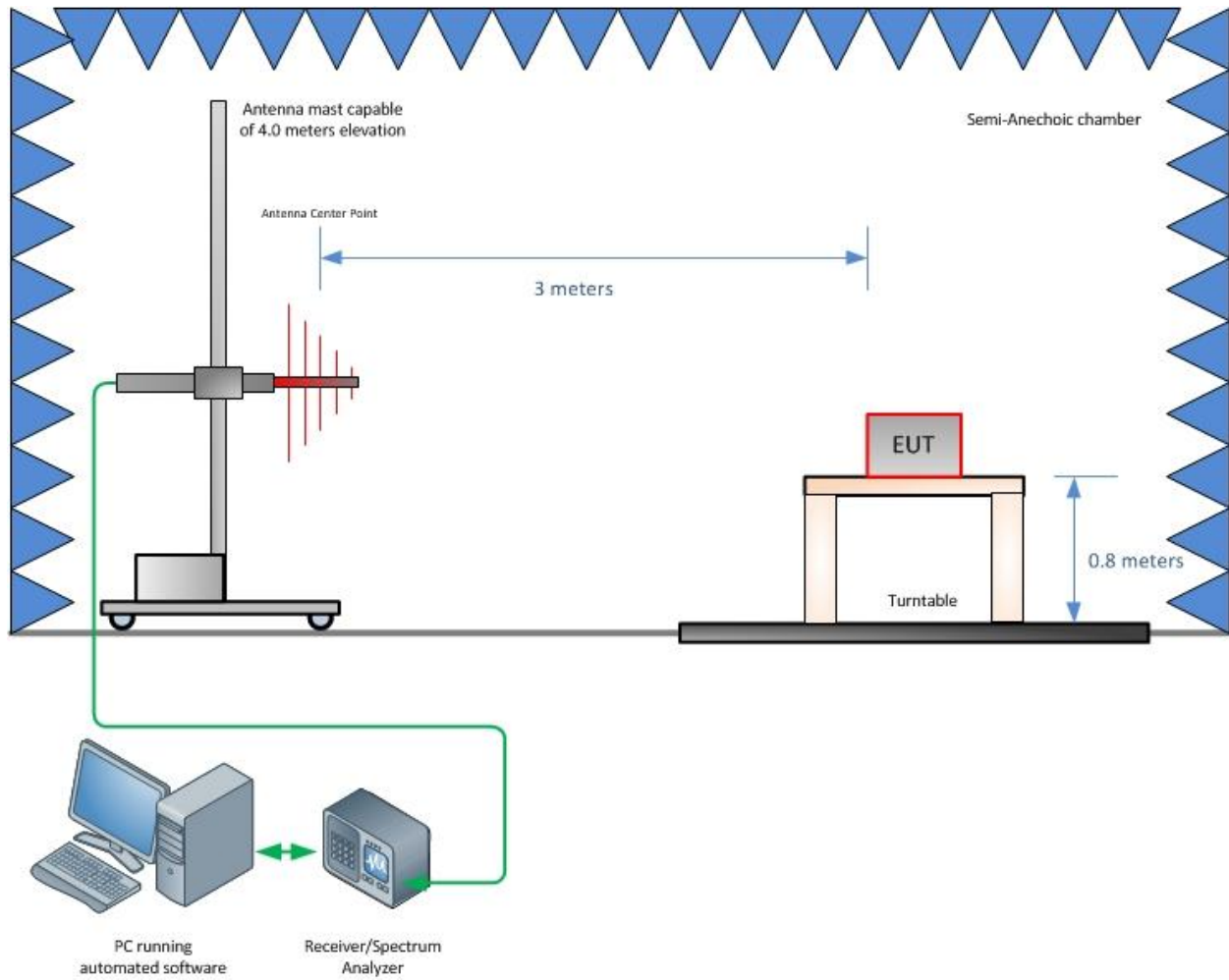
	Input Quantity (Contribution) X_i	Value	Prob. Dist.	Divisor	$u_i(x)$	$u_i(x)^2$
1	Receiver reading	0.10 dB	Normal, k=1	1.000	0.10	0.01
2	Attenuation: antenna-receiver	0.30 dB	Normal, k=2	2.000	0.15	0.02
3	Preamplifier Gain	0.20 dB	Normal, k=2	2.000	0.10	0.01
4	Antenna factor AF	0.47 dB	Normal, k=2	2.000	0.24	0.06
5	Sinewave accuracy	0.15 dB	Normal, k=2	2.000	0.08	0.01
6	Instability of preamp gain	1.21 dB	Rectangular	1.732	0.70	0.49
7	Noise floor proximity	0.70 dB	Rectangular	1.732	0.40	0.16
8	Mismatch: antenna-preamplifier	1.41 dB	U-shaped	1.414	1.00	0.99
9	Mismatch: preamplifier-receiver	1.30 dB	U-shaped	1.414	0.92	0.85
10	AF frequency interpolation	0.30 dB	Rectangular	1.732	0.17	0.03
11	Directivity difference at 3 m	1.50 dB	Rectangular	1.732	0.87	0.75
12	Phase center location at 3 m	0.30 dB	Rectangular	1.732	0.17	0.03
13	Cross-polarisation	0.90 dB	Rectangular	1.732	0.52	0.27
14	Site imperfections VSWR (Method 2)	5.53 dB	Triangular	2.000	4.89	1.13
15	Effect of setup table material	1.57 dB	Rectangular	1.732	0.91	0.82
16	Separation distance at 3 m	0.30 dB	Rectangular	1.732	0.17	0.03
17	Table height at 3 m	0.00 dB	Normal, k=2	2.000	0.00	0.00
Combined standard uncertainty			Normal	2.38	dB	
Expanded uncertainty			Normal, k=2	4.76	dB	



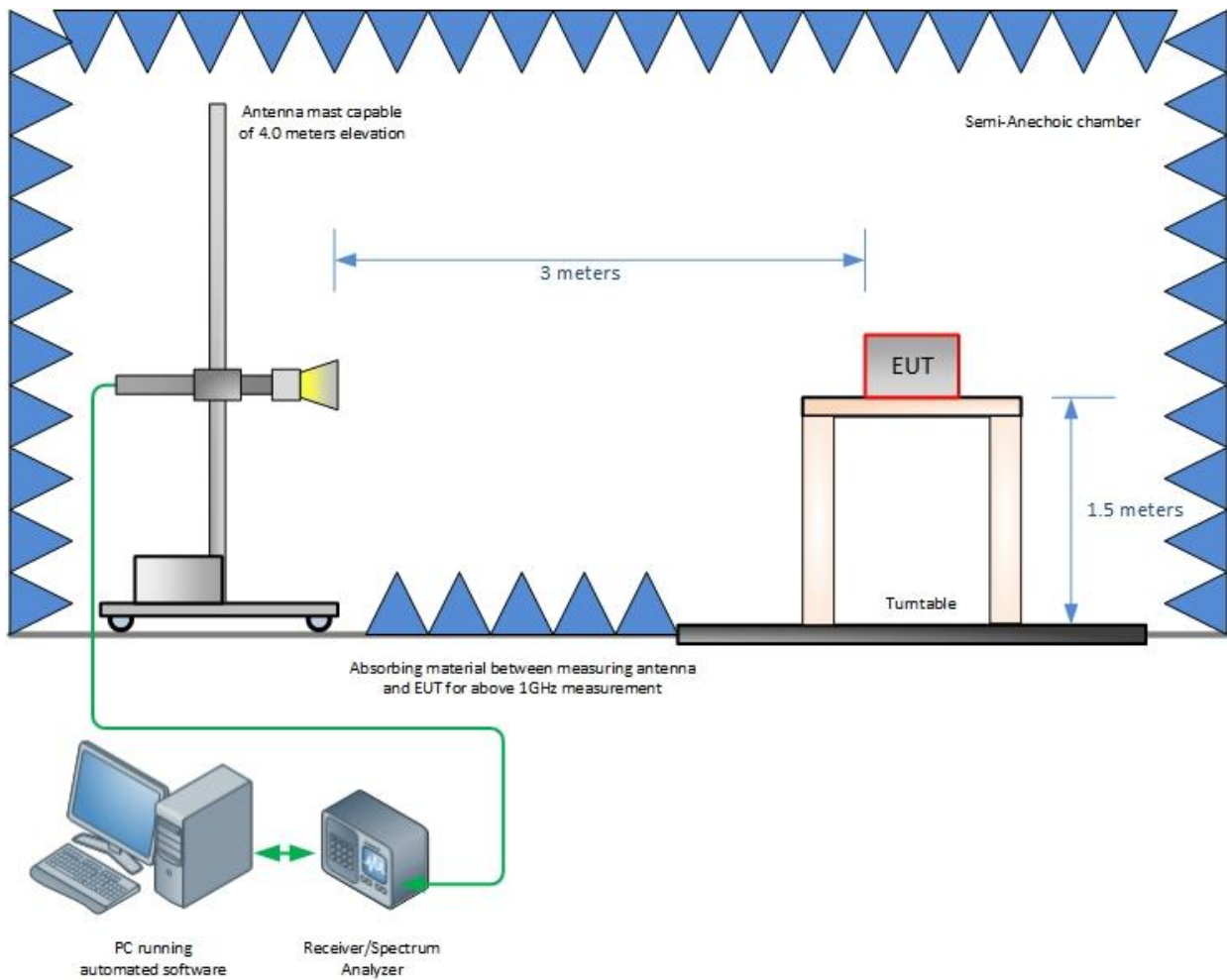
SECTION 4

4 DIAGRAM OF TEST SETUP

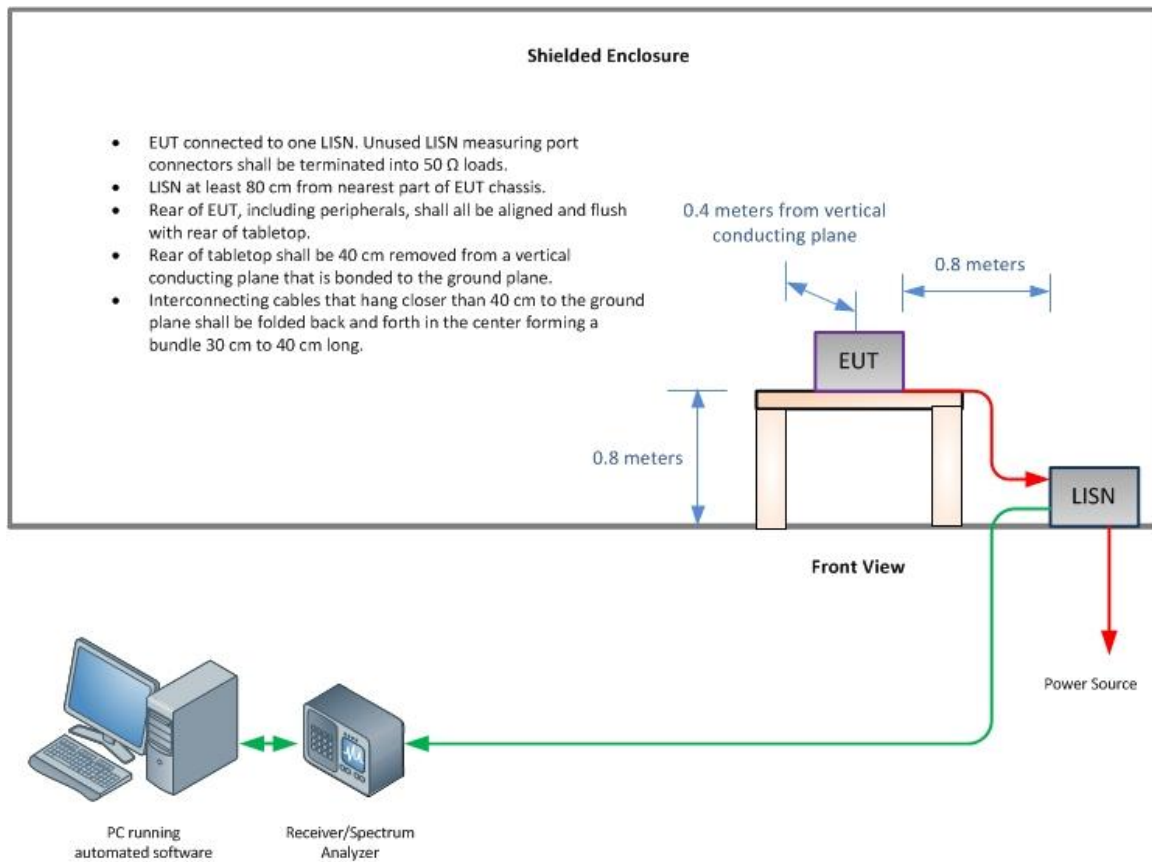
4.1 TEST SETUP DIAGRAM

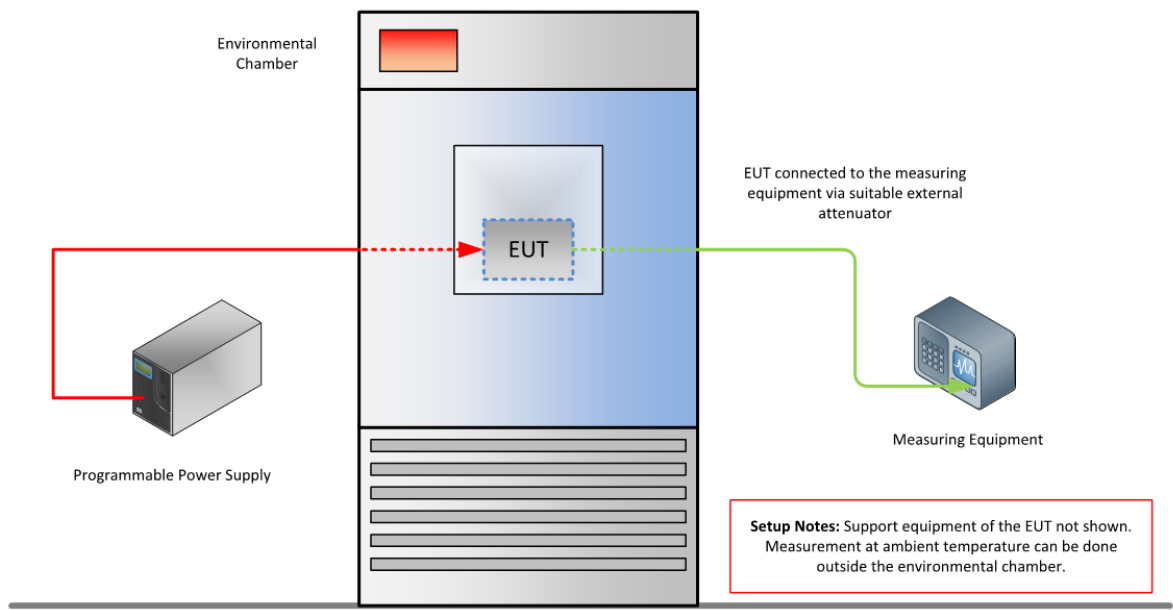


Radiated Emission Test Setup (Below 1GHz)



Radiated Emission Test Setup (Above 1GHz)





Frequency Stability



SECTION 5

5 ACCREDITATION, DISCLAIMERS AND COPYRIGHT



5.1 ACCREDITATION, DISCLAIMERS AND COPYRIGHT

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