TUV SUD Limited Digitally signed by TUV SUD Limited Date: 2024.12.13 11:36:33 Z

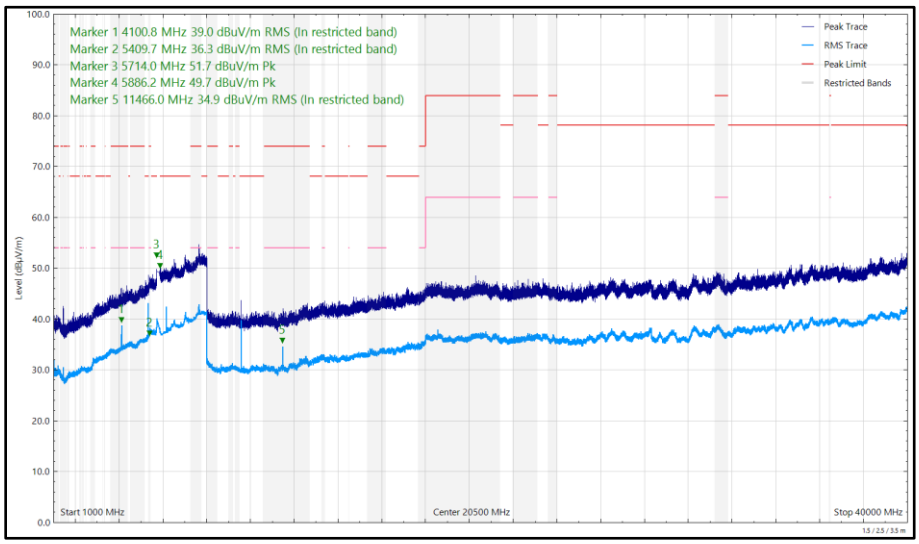

Figure 206 - 5733 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
36.242	34.30	40.00	-5.70	Q-Peak	12	100	Vertical
97.534	34.22	43.50	-9.28	Q-Peak	188	314	Horizontal
100.540	35.07	43.50	-8.43	Q-Peak	57	100	Vertical
123.015	33.79	43.50	-9.71	Q-Peak	102	100	Vertical
170.358	28.40	43.50	-15.10	Q-Peak	218	246	Horizontal
173.135	27.82	43.50	-15.68	Q-Peak	178	100	Vertical
273.166	29.05	46.00	-16.95	Q-Peak	182	127	Horizontal
5374.490	36.97	54.00	-17.03	RMS	294	377	Horizontal
5374.515	42.77	54.00	-11.23	RMS	19	326	Vertical
5721.087	52.49	68.20	-15.71	Peak	42	378	Horizontal
5722.553	51.99	68.20	-16.21	Peak	352	382	Vertical
5977.272	48.40	68.20	-19.80	Peak	298	386	Horizontal
6046.212	49.18	68.20	-19.02	Peak	0	306	Vertical
11576.025	36.95	54.00	-17.05	RMS	20	243	Vertical

Table 124 - 5788 MHz, DH5, iPA, Core 0 + Core 1, 30 MHz to 40 GHz

No other emissions found within 10 dB of the limit.

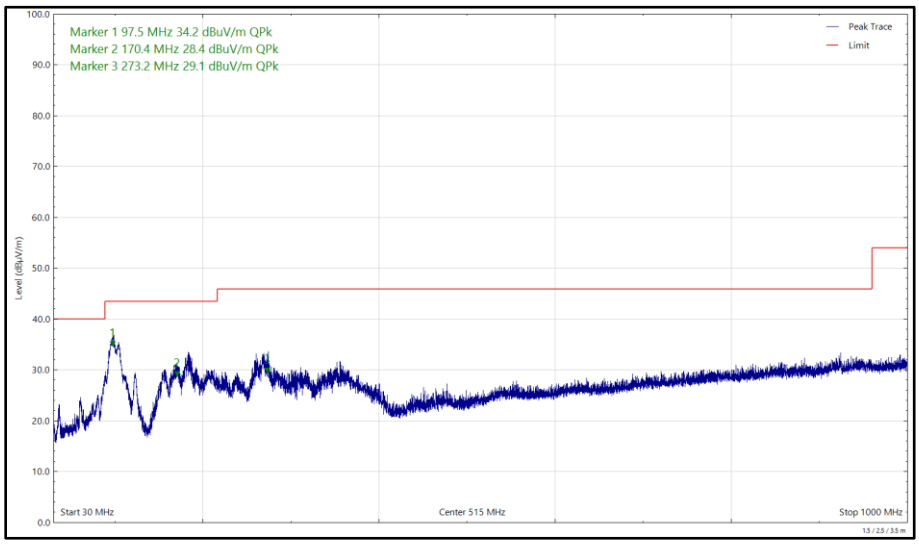

Figure 207 - 5788 MHz, DH5, iPA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

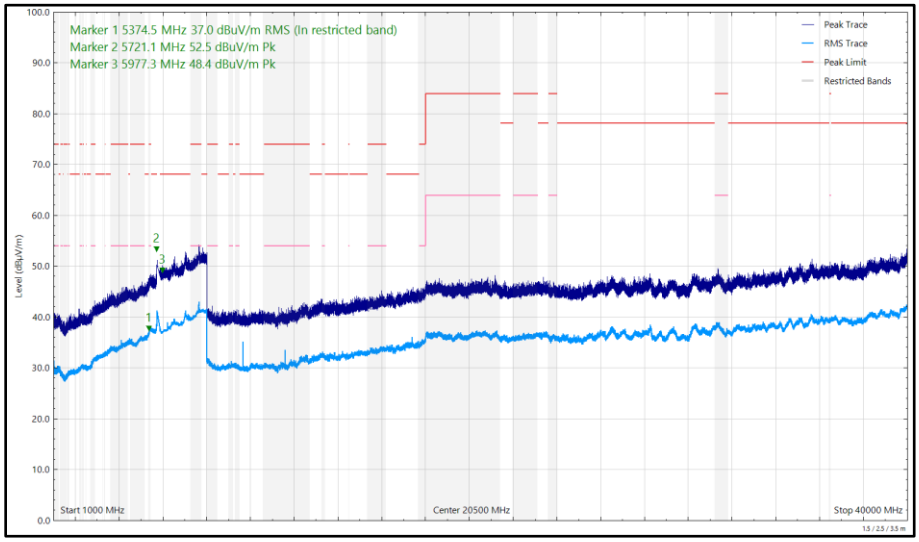

Figure 208 - 5788 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

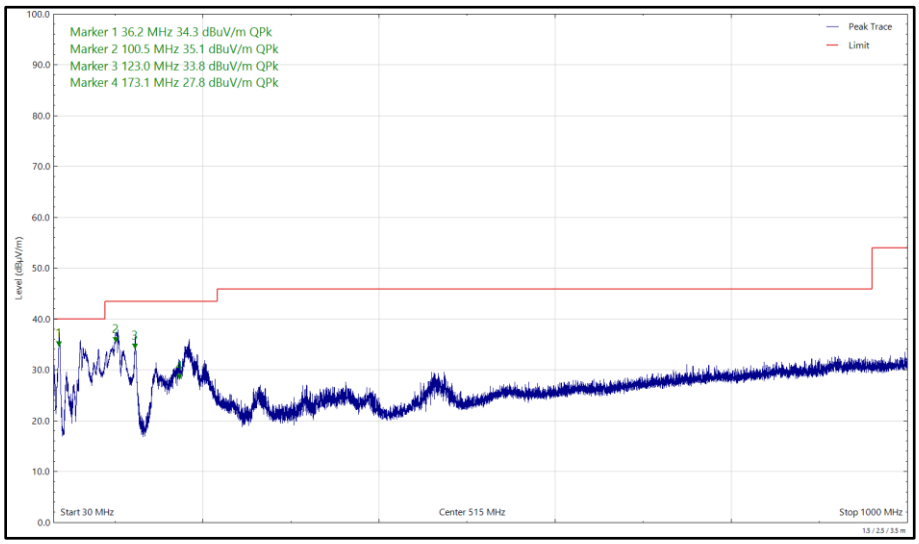

Figure 209 - 5788 MHz, DH5, iPA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

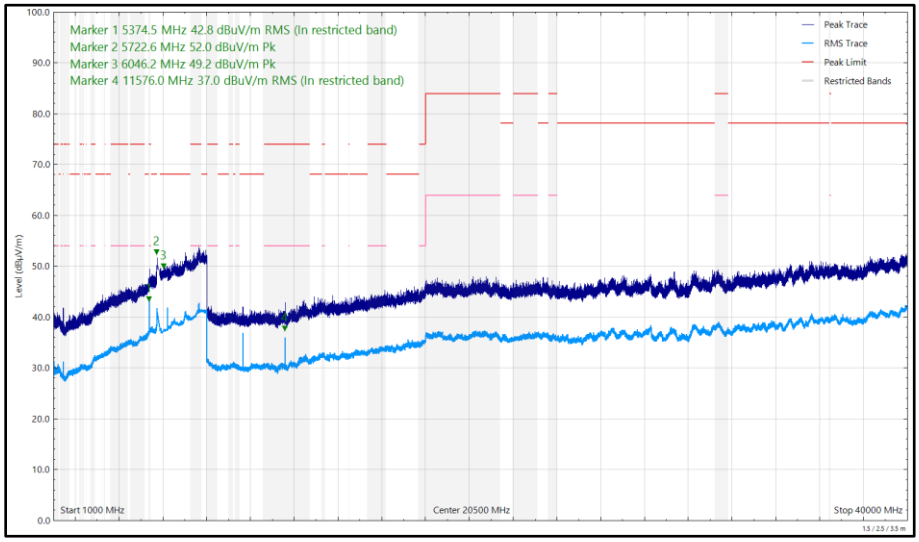

Figure 210 - 5788 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5026.207	34.69	54.00	-19.31	RMS	200	106	Vertical
5426.365	36.90	54.00	-17.10	RMS	55	310	Horizontal
5426.575	44.68	54.00	-9.32	RMS	32	279	Vertical
5719.066	52.38	68.20	-15.82	Peak	312	400	Vertical
5722.739	51.76	68.20	-16.44	Peak	63	396	Horizontal
5865.681	49.92	68.20	-18.28	Peak	193	113	Vertical
5866.015	50.24	68.20	-17.96	Peak	48	399	Horizontal
11687.990	36.97	54.00	-17.03	RMS	26	232	Vertical

Table 125 - 5844 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz

No other emissions found within 10 dB of the limit.

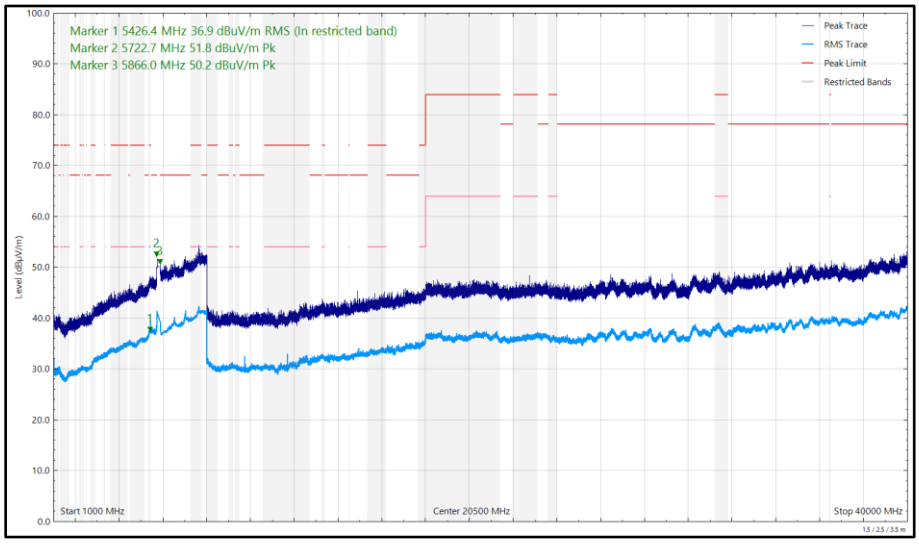

Figure 211 - 5844 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

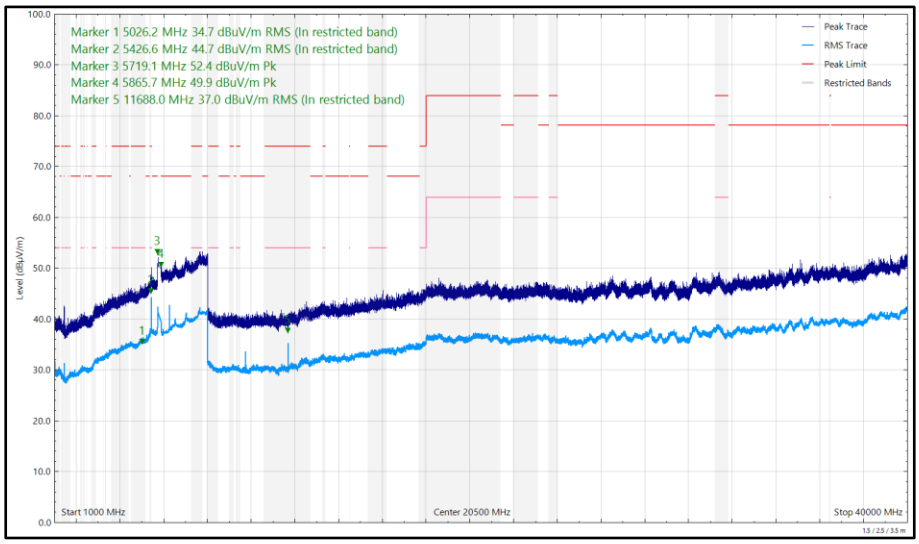

Figure 212 - 5844 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
4731.880	41.49	54.00	-12.51	RMS	6	298	Vertical
5119.940	36.41	54.00	-17.59	RMS	118	110	Horizontal
5401.890	40.37	54.00	-13.63	RMS	334	327	Vertical
5407.312	36.94	54.00	-17.06	RMS	82	392	Horizontal
5498.518	49.46	68.20	-18.74	Peak	119	110	Horizontal
5592.250	53.42	68.20	-14.78	Peak	335	337	Vertical

Table 126 - 5162 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz

No other emissions found within 10 dB of the limit.

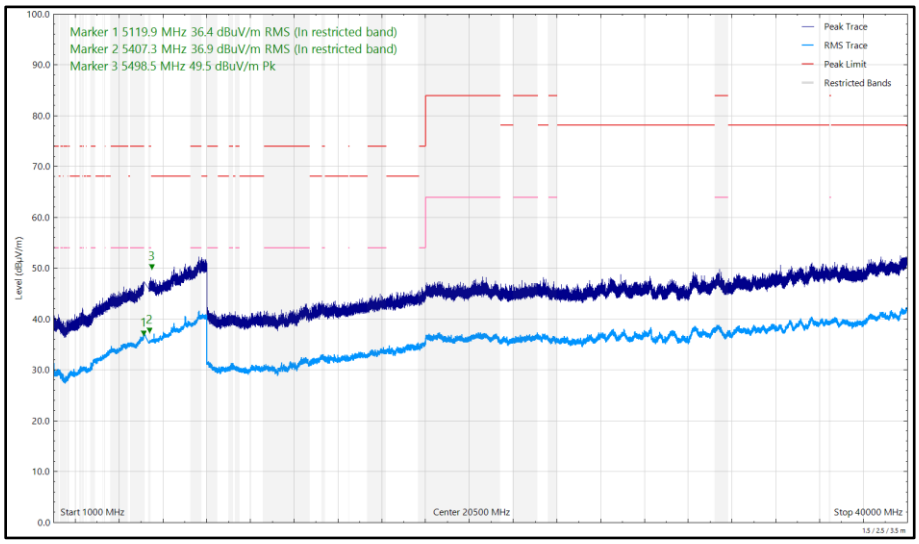

Figure 213 - 5162 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

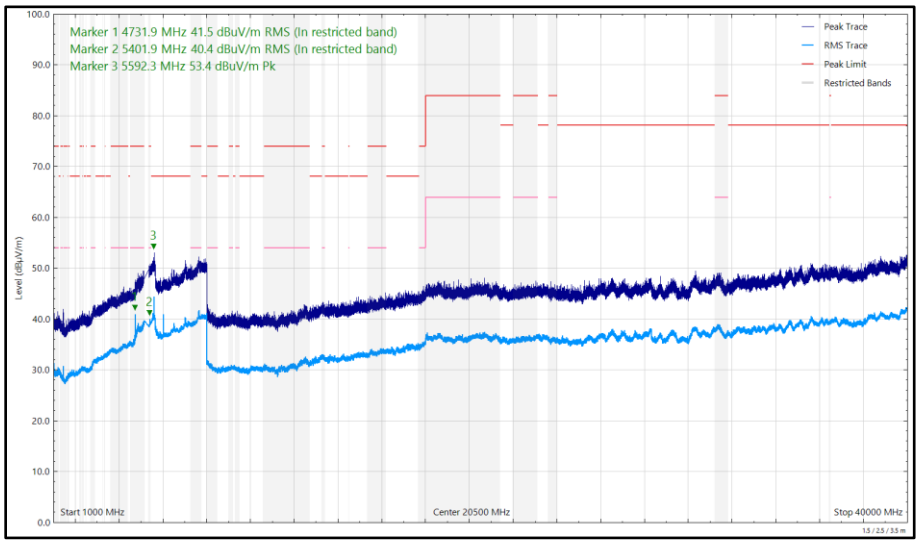

Figure 214 - 5162 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
36.425	34.22	40.00	-5.78	Q-Peak	4	104	Vertical
97.479	34.29	43.50	-9.21	Q-Peak	175	314	Horizontal
102.431	35.31	43.50	-8.19	Q-Peak	40	100	Vertical
123.005	33.96	43.50	-9.54	Q-Peak	95	100	Vertical
168.475	26.96	43.50	-16.54	Q-Peak	214	240	Horizontal
182.897	31.35	43.50	-12.15	Q-Peak	197	100	Vertical
269.248	29.28	46.00	-16.72	Q-Peak	186	127	Horizontal
4769.415	42.42	54.00	-11.58	RMS	353	319	Vertical
5148.858	35.28	54.00	-18.72	RMS	32	345	Horizontal
5442.730	40.08	54.00	-13.92	RMS	331	321	Vertical
5444.223	36.59	54.00	-17.41	RMS	150	137	Horizontal
5636.490	53.39	68.20	-14.81	Peak	334	287	Vertical

Table 127 - 5203 MHz, DH5, ePA, Core 0 + Core 1, 30 MHz to 40 GHz

No other emissions found within 10 dB of the limit.

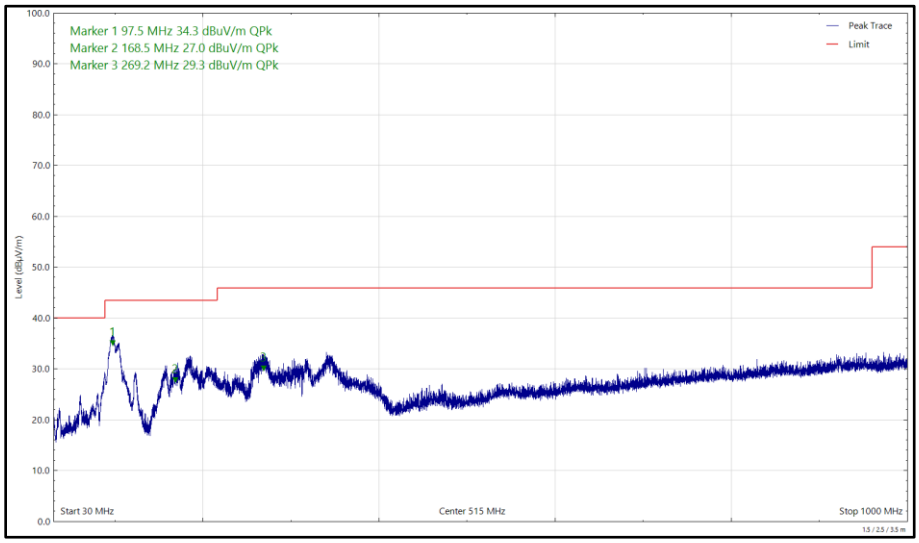

Figure 215 - 5203 MHz, DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

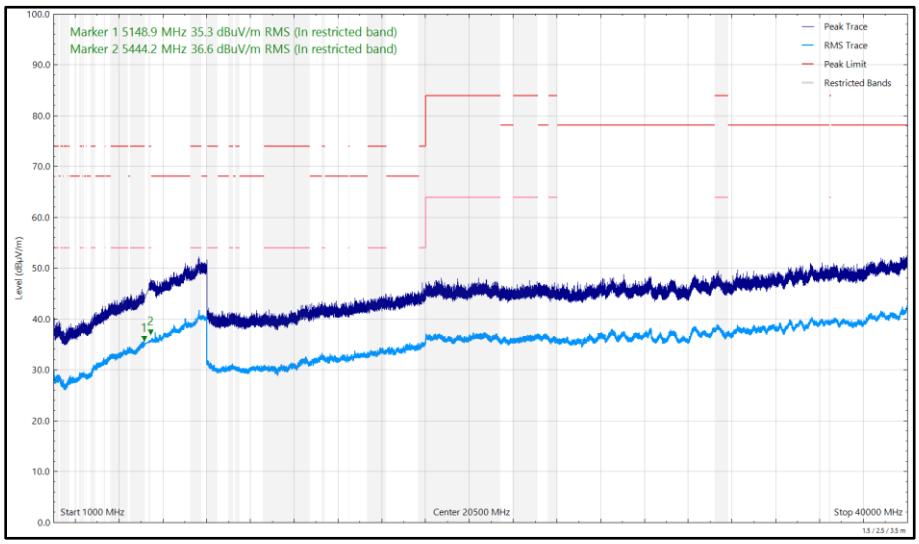

Figure 216 - 5203 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

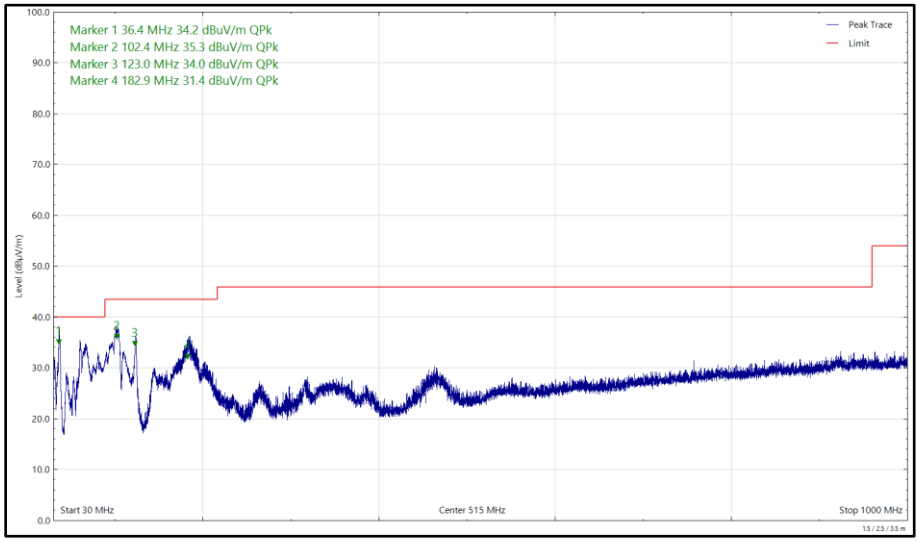

Figure 217 - 5203 MHz, DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

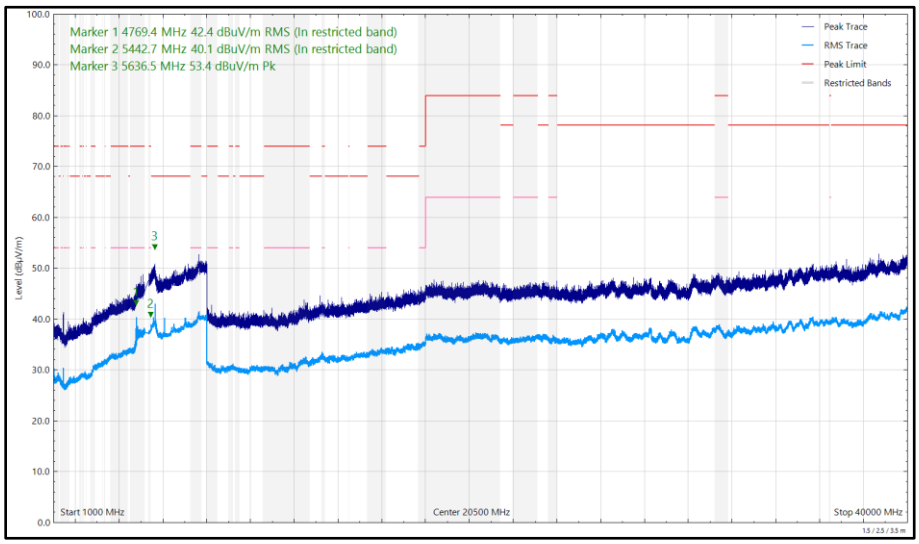

Figure 218 - 5203 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
4807.875	44.35	54.00	-9.65	RMS	6	327	Vertical
5130.124	35.22	54.00	-18.78	RMS	355	386	Horizontal
5365.040	39.98	54.00	-14.02	RMS	331	305	Vertical
5427.545	37.23	54.00	-16.77	RMS	299	380	Horizontal
5496.893	51.86	68.20	-16.34	Peak	342	329	Vertical

Table 128 - 5245 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz

No other emissions found within 10 dB of the limit.

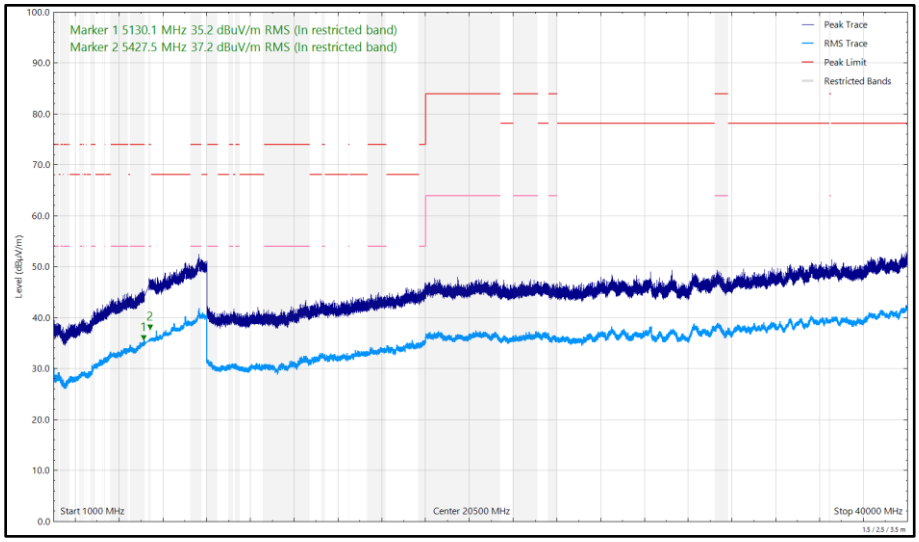

Figure 219 - 5245 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

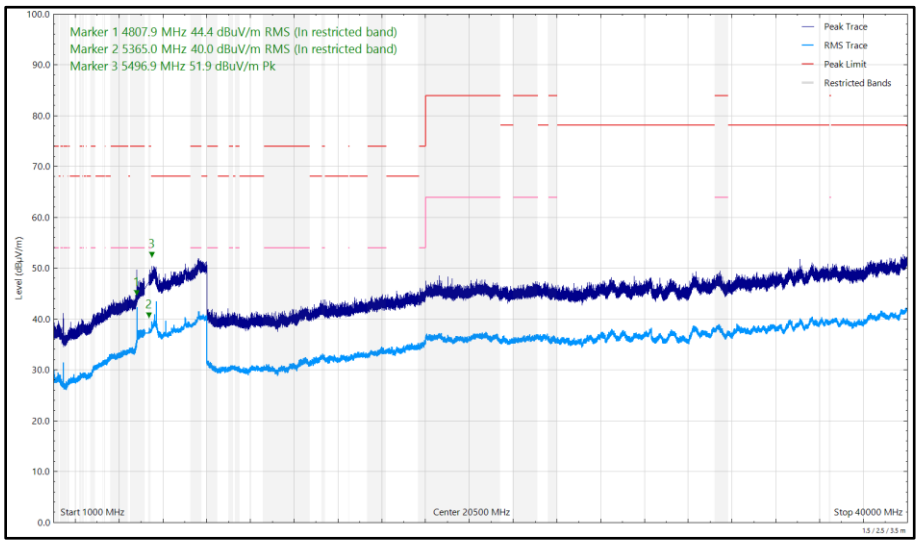

Figure 220 - 5245 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
1202.475	33.67	54.00	-20.33	RMS	48	313	Vertical
1440.062	33.41	54.00	-20.59	RMS	4	285	Vertical
1440.092	33.81	54.00	-20.19	RMS	312	107	Horizontal
1687.667	32.14	54.00	-21.86	RMS	185	290	Horizontal
4913.975	40.11	54.00	-13.89	RMS	10	302	Vertical
5323.430	55.76	68.20	-12.44	Peak	329	301	Vertical
6142.290	53.19	68.20	-15.01	Peak	30	304	Vertical

Table 129 - 5733 MHz, HDR4, ePA, Core 0 + Core 1, 1 GHz to 40 GHz

No other emissions found within 10 dB of the limit.

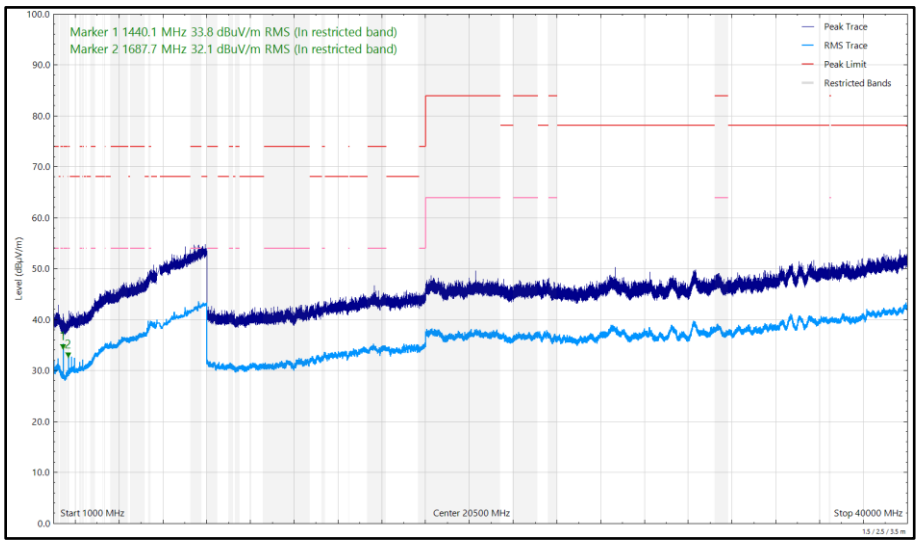

Figure 221 - 5733 MHz, HDR4, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

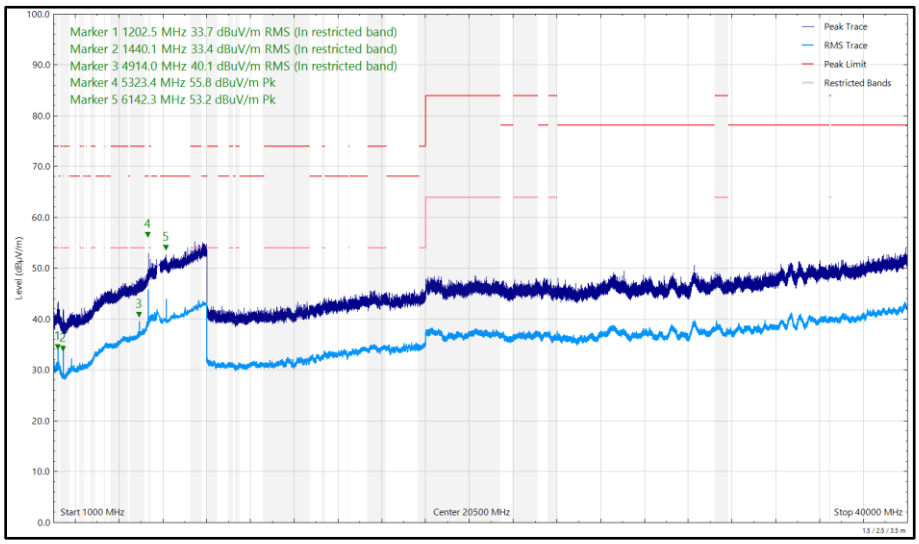

Figure 222 - 5733 MHz, HDR4, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
36.463	34.27	40.00	-5.73	Q-Peak	32	100	Vertical
97.005	34.01	43.50	-9.49	Q-Peak	183	341	Horizontal
101.275	35.50	43.50	-8.00	Q-Peak	35	107	Vertical
123.083	33.49	43.50	-10.01	Q-Peak	107	115	Vertical
123.243	27.55	43.50	-15.95	Q-Peak	327	260	Horizontal
170.938	27.19	43.50	-16.31	Q-Peak	224	246	Horizontal
183.651	31.45	43.50	-12.05	Q-Peak	196	100	Vertical
268.159	28.68	46.00	-17.32	Q-Peak	194	117	Horizontal
1201.715	33.06	54.00	-20.94	RMS	8	342	Vertical
1439.303	30.23	54.00	-23.77	RMS	312	100	Vertical
1440.302	33.46	54.00	-20.54	RMS	312	100	Horizontal
4961.120	41.16	54.00	-12.84	RMS	12	326	Vertical
5374.570	57.12	74.00	-16.88	Peak	28	309	Vertical
5374.590	49.14	54.00	-4.86	RMS	334	308	Vertical

Table 130 - 5788 MHz, HDR4, ePA, Core 0 + Core 1, 30 MHz to 40 GHz

No other emissions found within 10 dB of the limit.

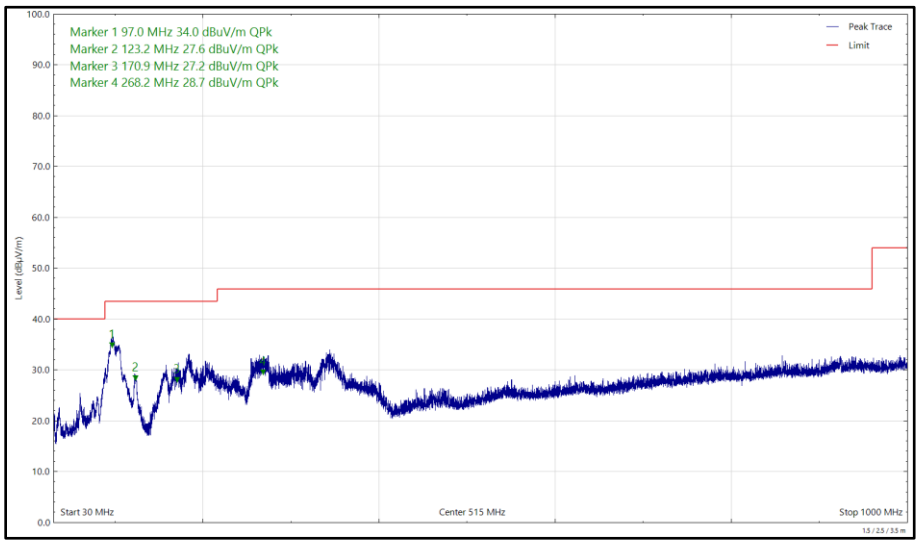

Figure 223 - 5788 MHz, HDR4, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

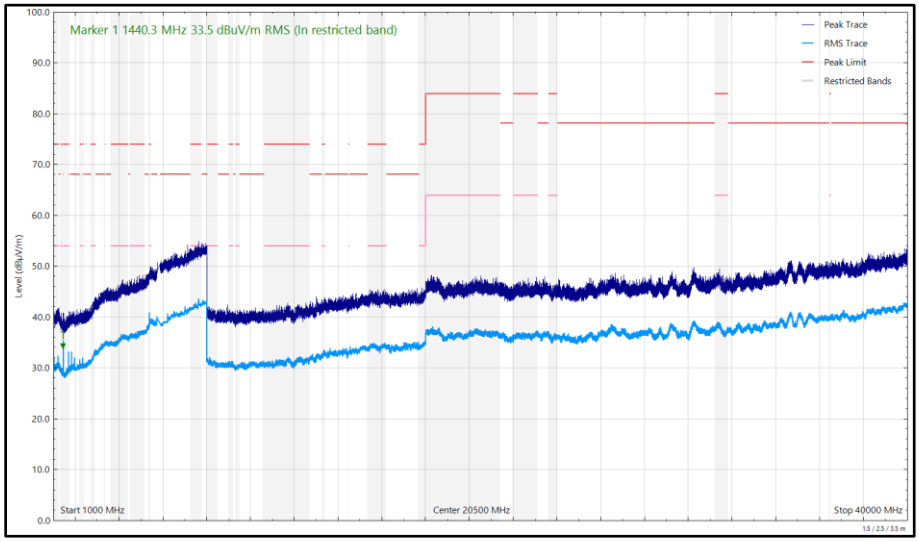

Figure 224 - 5788 MHz, HDR4, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

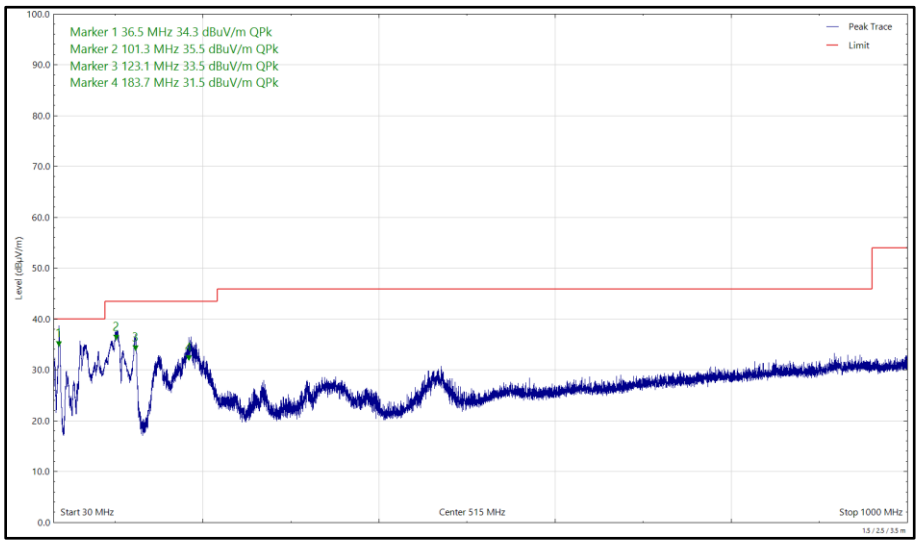

Figure 225 - 5788 MHz, HDR4, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

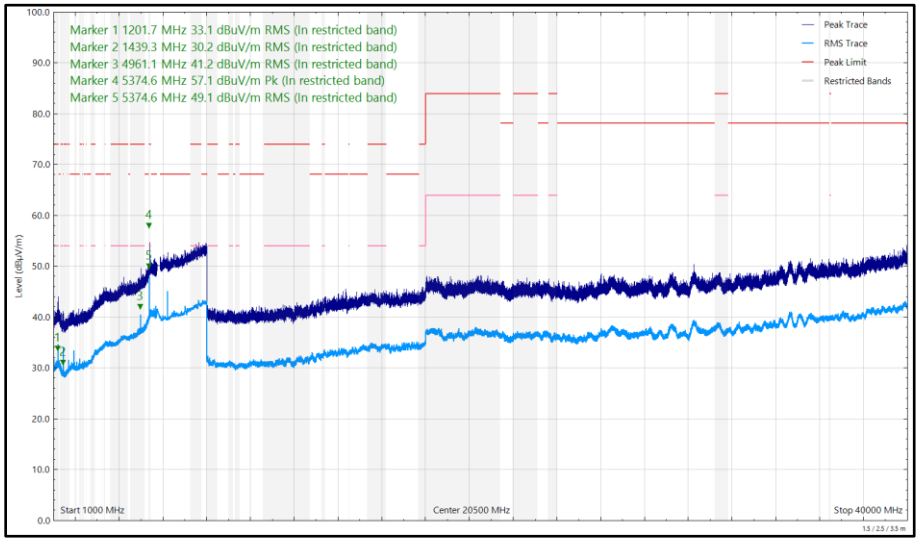

Figure 226 - 5788 MHz, HDR4, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
1202.460	32.90	54.00	-21.10	RMS	12	370	Vertical
1440.186	31.13	54.00	-22.87	RMS	285	302	Horizontal
1440.697	34.13	54.00	-19.87	RMS	218	110	Vertical
5009.145	40.19	54.00	-13.81	RMS	10	246	Vertical
5426.390	57.44	74.00	-16.56	Peak	338	318	Vertical
5426.495	42.33	54.00	-11.67	RMS	287	377	Horizontal
5426.605	49.60	54.00	-4.40	RMS	338	318	Vertical

Table 131 - 5844 MHz, HDR4, ePA, Core 0 + Core 1, 1 GHz to 40 GHz

No other emissions found within 10 dB of the limit.

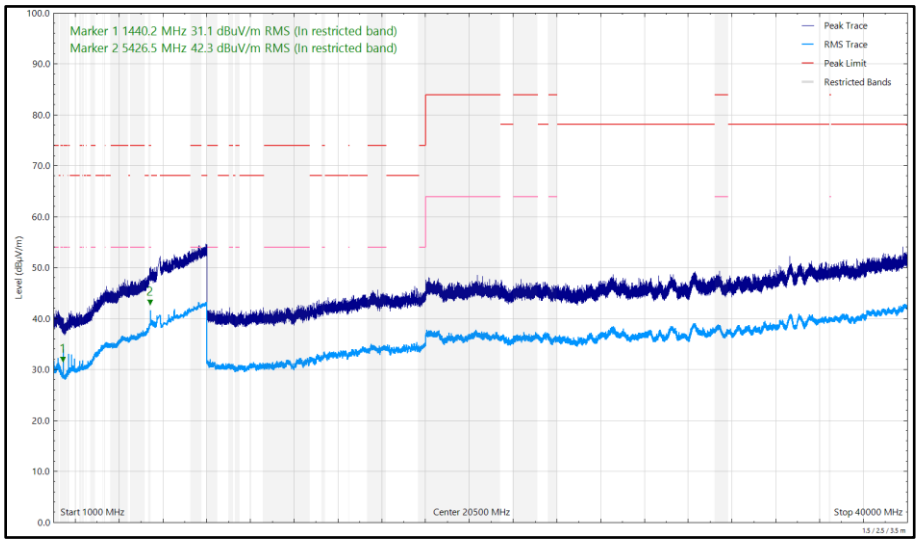

Figure 227 - 5844 MHz, HDR4, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

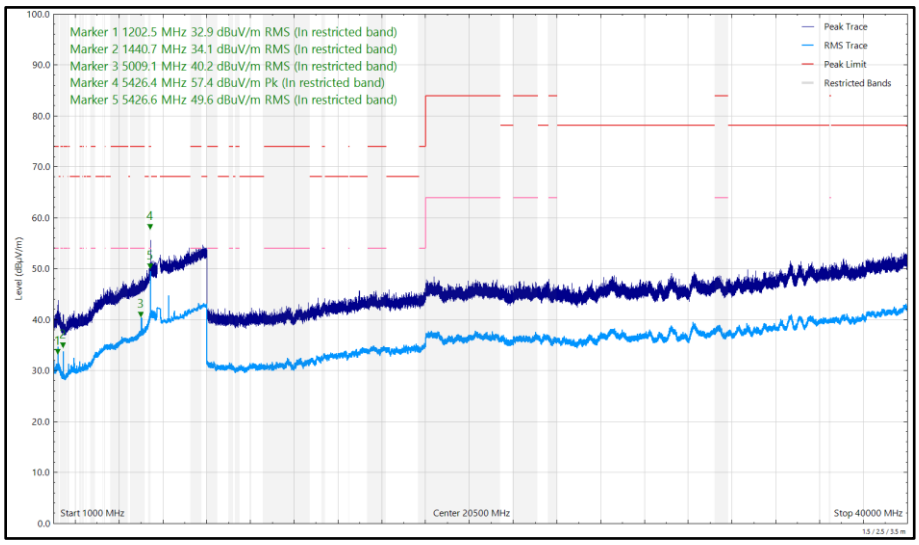

Figure 228 - 5844 MHz, HDR4, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

FCC 47 CFR Part 15, Limit Clause 15.407(b)(1)(2)(3)(4)

Emissions not falling within the restricted bands listed in FCC 47 CFR Part 15.209:

For transmitters operating in the 5.15-5.25 GHz band: ≤-27 dBm/MHz outside 5150-5350 MHz.

For transmitters operating in the 5.25-5.35 GHz band: ≤-27 dBm/MHz outside 5150-5350 MHz.

For transmitters operating in the 5.47-5.725 GHz band: ≤-27 dBm/MHz outside 5470-5725 MHz.

For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Emissions within the restricted bands listed in FCC 47 CFR Part 15.209:

Frequency (MHz)	Field Strength (µV/m) at 3m	Field Strength Limit (dBµV/m) at 3m
30 to 88	100	40.00
88 to 216	150	43.52
216 to 960	200	46.02
Above 960	500	53.98

Table 132 - Radiated Emissions Limit Table (FCC)

ISED RSS-247, Limit Clause 6.2.1.2, 6.2.2.2, 6.2.3.2 and 6.2.4.2 and ISED RSS-GEN, Limit Clause 8.9

Emissions not falling within the restricted bands listed in ISED RSS-GEN, Clause 8.10:

For transmitters with operating frequencies in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. Any unwanted emissions that fall into the band 5250-5350 MHz shall be attenuated below the channel power by at least 26 dB.

For transmitters with operating frequencies in the bands 5250-5350 MHz and 5470-5725 MHz, all emissions outside the band 5250-5350 MHz and 5470-5725 MHz shall not exceed -27 dBm/MHz e.i.r.p.

Devices operating in the band 5725-5850 MHz shall have e.i.r.p. of unwanted emissions comply with the following:

a) 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges;

b) 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges;

c) 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and

d) -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.

Emissions falling within the restricted bands listed in ISED RSS-GEN, Clause 8.10:

Frequency (MHz)	Field Strength (µV/m) at 3m	Field Strength Limit (dBµV/m) at 3m
30 to 88	100	40.00
88 to 216	150	43.52
216 to 960	200	46.02
Above 960	500	53.98

Table 133 - Radiated Emissions Limit Table (ISED)

For the 5895 MHz band edge and above, all devices shall be measured using average detection and shall comply with the following e.i.r.p. spectral density limits:

Fixed outdoor access points and fixed outdoor client devices shall not exceed -27 dBm/MHz e.i.r.p. spectral density at or above the 5895 MHz band edge.

Indoor access points or indoor subordinate devices shall not exceed 15 dBm/MHz e.i.r.p. spectral density at the 5895 MHz band edge and shall decrease linearly to not exceed -7 dBm/MHz e.i.r.p. spectral density at or above 5925 MHz.

Client devices shall not exceed -5 dBm/MHz e.i.r.p. spectral density at the 5895 MHz band edge and shall decrease linearly to not exceed -27 dBm/MHz e.i.r.p. spectral density at or above 5925 MHz.

2.6.8 Test Location and Test Equipment Used

This test was carried out in RF Chamber 14 and RF Chamber 15.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
Emissions Software	TUV SUD	EmX V3.4.2	5125	-	Software
Antenna (DRG, 1 GHz to 10.5 GHz)	Schwarzbeck	BBHA9120B	5215	12	14-Jul-2025
EMI Test Receiver	Rohde & Schwarz	ESW44	5911	12	19-Sep-2025
Cable (K Type 2m)	Junkosha	MWX241-02000KMSKMS/B	5937	12	10-Jun-2025
DRG Horn Antenna (7.5-18GHz)	Schwarzbeck	HWRD750	5940	12	05-May-2025
TRILOG Super Broadband Test Antenna	Schwarzbeck	VULB 9168	5943	24	24-May-2026
1500W (300V 12A) AC Power Supply	iTech	IT7324	5955	-	O/P Mon
1500W (300V 12A) AC Power Supply	iTech	IT7324	5956	-	O/P Mon
5m Semi-Anechoic Chamber (Dual-Axis)	Albatross Projects	RF Chamber 14	5958	36	26-Apr-2025
Compact Antenna Mast	Maturo Gmbh	CAM4.0-P	5959	-	TU
Mast & Turntable Controller	Maturo Gmbh	FCU3.0	5960	-	TU
Tilt Antenna Mast	Maturo Gmbh	BAM4.5-P	5961	-	TU
Turntable	Maturo Gmbh	TT1.5SI	5962	-	TU
5m Semi-Anechoic Chamber (Dual-Axis), Chamber 15	Albatross Projects	RF Chamber 15	5963	36	28-Apr-2025
Compact Antenna Mast	Maturo Gmbh	CAM4.0-P	5964	-	TU
Mast & Turntable Controller	Maturo Gmbh	FCU3.0	5966	-	TU
Tilt Antenna Mast	Maturo Gmbh	BAM4.5-P	5967	-	TU
Turntable	Maturo Gmbh	TT1.5SI	5968	-	TU
Cable (N to N 8m)	Junkosha	MWX221-08000NMSNMS/A	6006	12	20-May-2025
Cable (SMA to SMA 1m)	Junkosha	MWX221-01000AMSAMS/A	6007	12	20-May-2025
Cable (N to N 3m)	Junkosha	MWX221-03000NMSNMS/A	6025	12	20-May-2025
Horn Antenna (1-10.5 GHz)	Schwarzbeck	BBHA9120B	6140	12	05-May-2025
Horn Antenna (1-10 GHz)	Schwarzbeck	BBHA9120B	6141	12	05-May-2025
Digital Multimeter	Fluke	115	6146	12	06-Jun-2025
Digital Multimeter	Fluke	115	6147	12	06-Jun-2025
Double Ridge Active Horn Antenna (18-40 GHz)	Com-Power	AHA-840	6188	24	31-Jul-2026
SAC Switch Unit	TUV SUD	TUV_SSU_001	6190	12	22-Dec-2024
SAC Switch Unit	TUV SUD	TUV_SSU_001	6191	12	18-Dec-2024
8GHz Highpass Filter	Wainwright	WHKX 7150 8000 18000 50SS	6194	12	23-Apr-2025

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
8GHz Highpass Filter	Wainwright	WHKX 7150 8000 18000 50SS	6195	12	23-Apr-2025
Pre Amp 8 - 18 GHz	Wright Technologies	APS06 0061	6198	12	03-Jun-2025
Pre Amp 8 - 18 GHz	Wright Technologies	APS06 0061	6200	12	03-Jun-2025
Attenuator 4dB	Pasternack	PE7074-4	6201	24	24-May-2026
Cable (SMA to SMA 20cm)	TUV SUD	MH-FH 8-18	6214	12	23-Apr-2025
Cable (SMA to SMA 20cm)	TUV SUD	MH-FH 8-18	6215	12	23-Apr-2025
USB Spectrum Analyser	Signal Hound	SA124B	6296	-	TU
USB Spectrum Analyser	Signal Hound	SA124B	6297	-	TU
Cable (K Type 2m)	Junkosha	MWX241-02000KMSKMS/B	6323	12	04-Feb-2025
DRG Horn Antenna (8-18 GHz)	Schwarzbeck	HWRD750	6458	12	05-May-2025
1m Cable	Junkosha	MWX241-01000AMSAMS/B	6740	12	01-Feb-2025
1m Cable	Junkosha	MWX241-01000AMSAMS/B	6741	12	01-Feb-2025
6.5m Cable	Junkosha	MWX221-06500AMSAMS/B	6744	12	01-Feb-2025
EMI Test Receiver	Rohde & Schwarz	ESW44	6805	12	29-May-2025
1M SMA Cable	Junkosha	MWX221-01000AMSAMS/B	6832	12	14-Aug-2025
8M SMA Cable	Junkosha	MWX221-08000AMSAMS/B	6834	12	14-Aug-2025
Handheld Hygrometer	Fluke	971	6837	12	27-Aug-2025
8m SMA-Type Cable	Junkosha	MWX221-08000AMSAMS/B	6851	12	15-Nov-2025
Cable Assembly	SpecTech	PE300-60	6856	-	TU
Cable Assembly	SpecTech	PE300-60	6866	-	TU
Cable Assembly	SpecTech	PE300-60	6867	-	TU
Cable Assembly	SpecTech	PE300-60	6868	-	TU

Table 134

TU - Traceability Unscheduled
O/P Mon - Output Monitored using calibrated equipment

3 Measurement Uncertainty

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

Test Name	Measurement Uncertainty
Restricted Band Edges	± 6.3 dB
Emission Bandwidth	± 136.57 kHz
Maximum Conducted Output Power	± 1.38 dB
Maximum Conducted Power Spectral Density	± 1.49 dB
Authorised Band Edges	± 6.3 dB
Spurious Radiated Emissions	30 MHz to 1 GHz: ± 5.2 dB 1 GHz to 40 GHz: ± 6.3 dB

Table 135

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.