TUV SUD Limited Digitally signed by TUV SUD Limited Date: 2024.12.16 08:11:01 Z

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5396.335	36.50	54.00	-17.50	RMS	89	380	Vertical
5400.028	36.67	54.00	-17.33	RMS	355	145	Horizontal
5699.978	49.97	68.20	-18.23	Peak	298	176	Horizontal
5711.394	49.94	68.20	-18.26	Peak	10	101	Vertical
5850.797	51.14	68.20	-17.06	Peak	231	125	Vertical
5851.801	50.90	68.20	-17.30	Peak	259	143	Horizontal
11465.960	36.08	54.00	-17.92	RMS	324	246	Vertical

Table 112 - 5733 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz

No other emissions found within 10 dB of the limit.

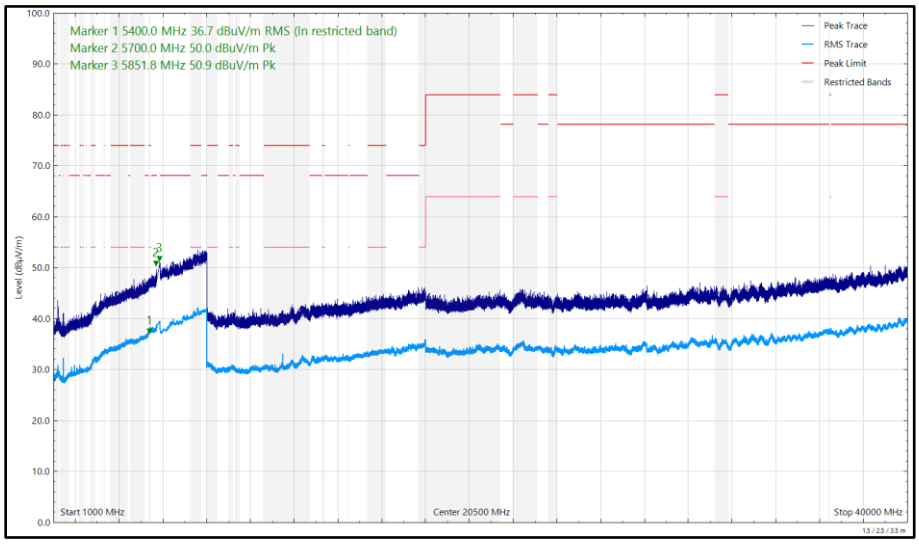

Figure 205 - 5733 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

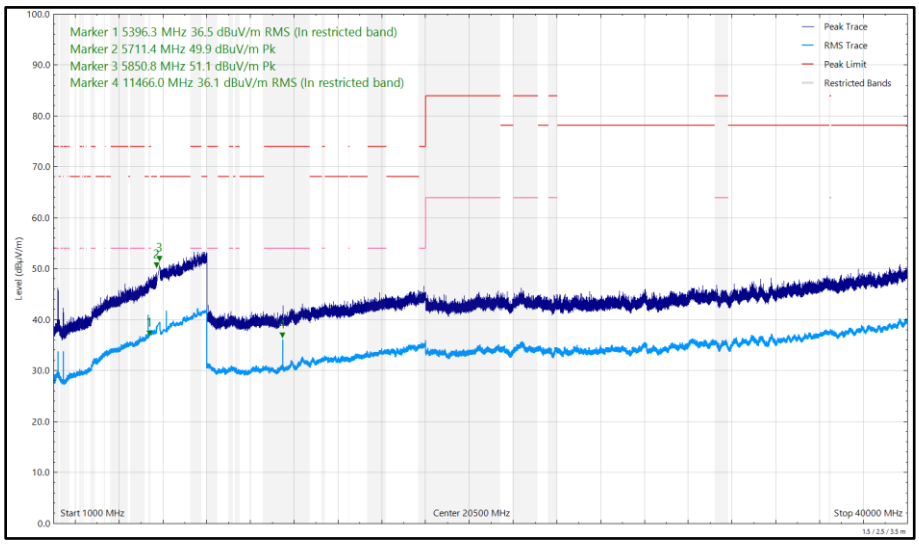

Figure 206 - 5733 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
30.195	23.35	40.00	-16.65	Q-Peak	125	400	Vertical
31.804	32.76	40.00	-7.24	Q-Peak	21	114	Vertical
65.579	19.23	40.00	-20.77	Q-Peak	339	383	Horizontal
102.494	35.46	43.50	-8.04	Q-Peak	8	295	Horizontal
108.454	32.59	43.50	-10.91	Q-Peak	352	299	Horizontal
112.431	33.23	43.50	-10.27	Q-Peak	105	103	Vertical
192.790	29.73	43.50	-13.77	Q-Peak	206	105	Vertical
229.458	26.93	46.00	-19.07	Q-Peak	300	101	Vertical
249.687	25.47	46.00	-20.53	Q-Peak	232	100	Vertical
321.639	29.98	46.00	-16.02	Q-Peak	86	100	Horizontal
327.120	30.28	46.00	-15.72	Q-Peak	78	100	Horizontal
5374.630	38.17	54.00	-15.83	RMS	355	180	Vertical
5397.138	36.47	54.00	-17.53	RMS	3	286	Horizontal
5724.025	49.62	68.20	-18.58	Peak	0	100	Horizontal
5724.974	50.38	68.20	-17.82	Peak	0	235	Vertical
5850.556	51.13	68.20	-17.07	Peak	314	178	Horizontal
5850.947	50.78	68.20	-17.42	Peak	211	243	Vertical
11576.115	35.39	54.00	-18.61	RMS	328	196	Vertical

Table 113 - 5788 MHz, DH5, iPA, Core 0 + Core 1, 30 MHz to 40 GHz

No other emissions found within 10 dB of the limit.

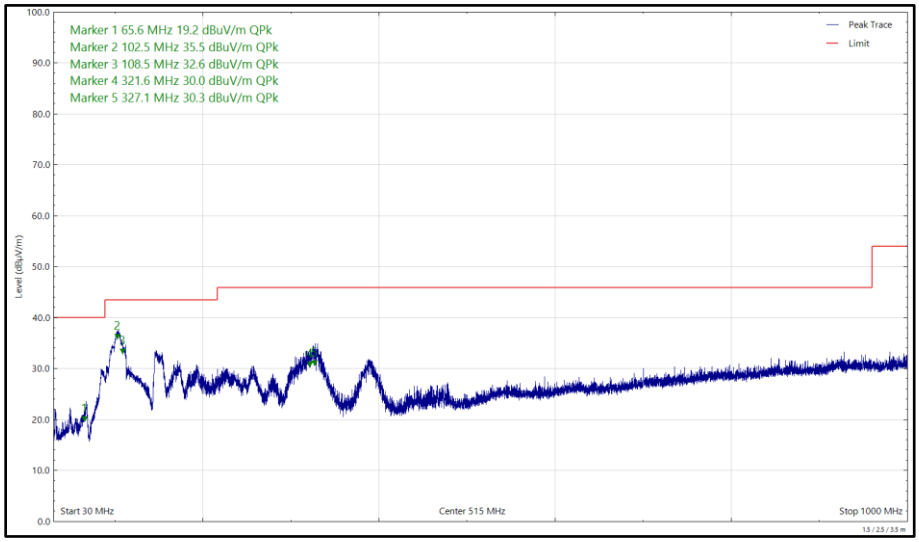

Figure 207 - 5788 MHz, DH5, iPA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

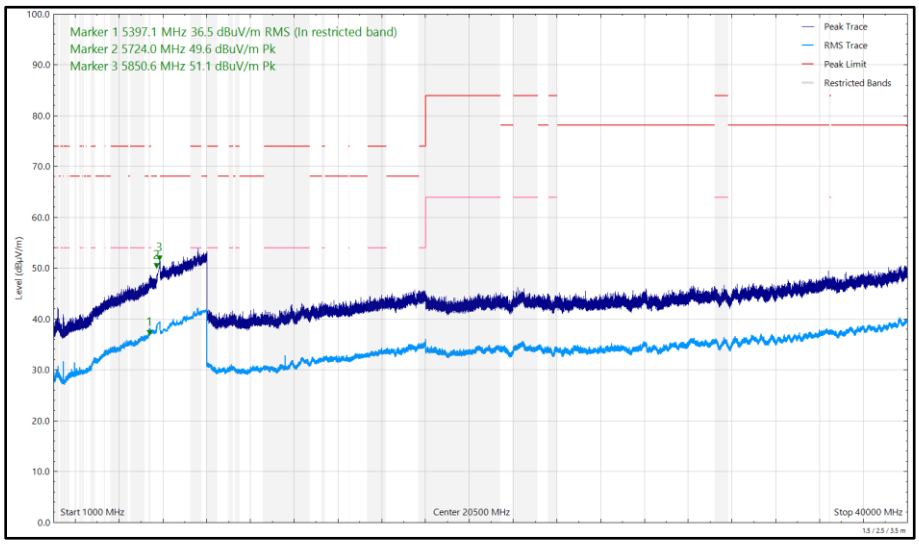

Figure 208 - 5788 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

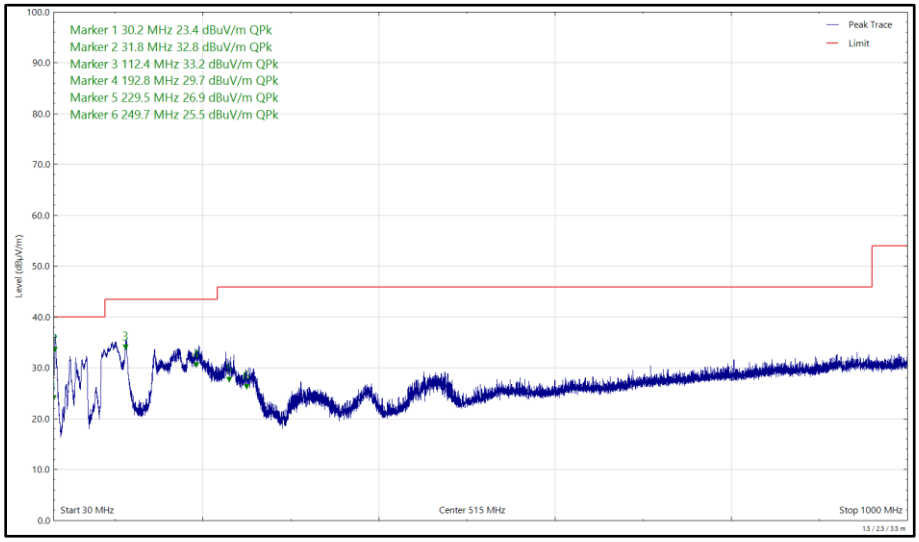

Figure 209 - 5788 MHz, DH5, iPA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

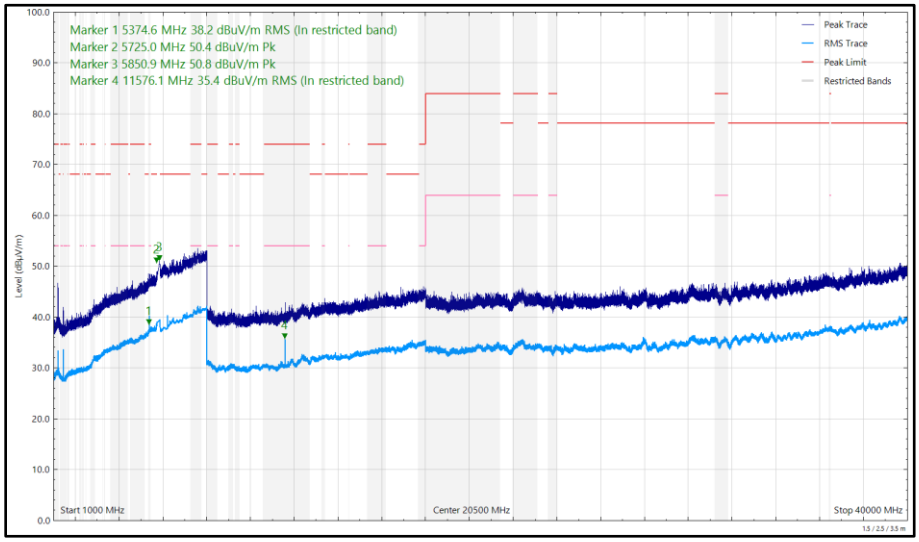

Figure 210 - 5788 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5405.647	36.44	54.00	-17.56	RMS	69	295	Horizontal
5426.635	41.93	54.00	-12.07	RMS	43	241	Vertical
5698.094	49.60	68.20	-18.60	Peak	297	400	Vertical
5717.483	49.73	68.20	-18.47	Peak	177	189	Horizontal
6043.145	49.15	68.20	-19.05	Peak	50	137	Horizontal
6099.864	50.18	68.20	-18.02	Peak	6	113	Vertical
11688.010	35.36	54.00	-18.64	RMS	314	237	Vertical

Table 114 - 5844 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz

No other emissions found within 10 dB of the limit.

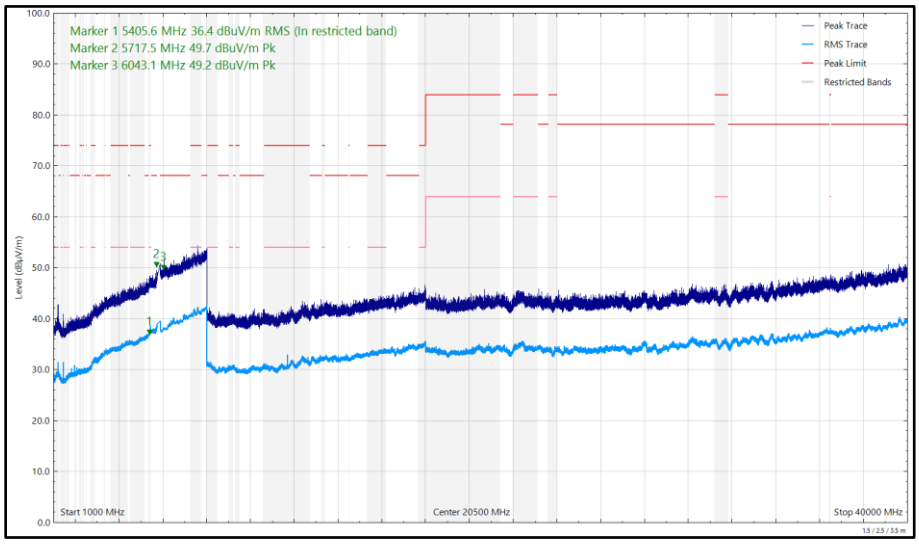

Figure 211 - 5844 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

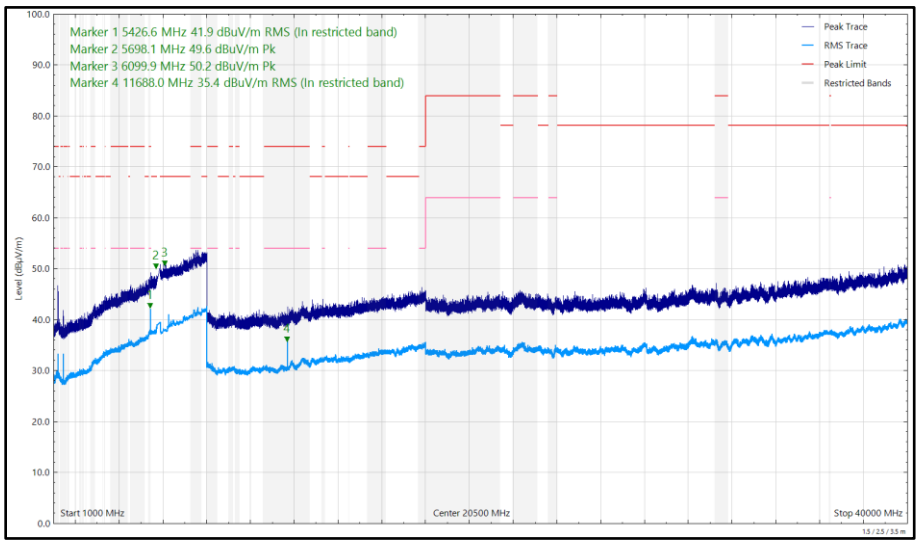

Figure 212 - 5844 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
4731.895	38.68	54.00	-15.32	RMS	339	269	Vertical
5119.917	36.70	54.00	-17.30	RMS	360	114	Horizontal
5444.348	37.51	54.00	-16.49	RMS	307	298	Vertical
5458.596	36.80	54.00	-17.20	RMS	352	100	Horizontal
5478.888	49.71	68.20	-18.49	Peak	56	328	Vertical
5590.981	48.90	68.20	-19.30	Peak	305	364	Horizontal

Table 115 - 5162 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz

No other emissions found within 10 dB of the limit.

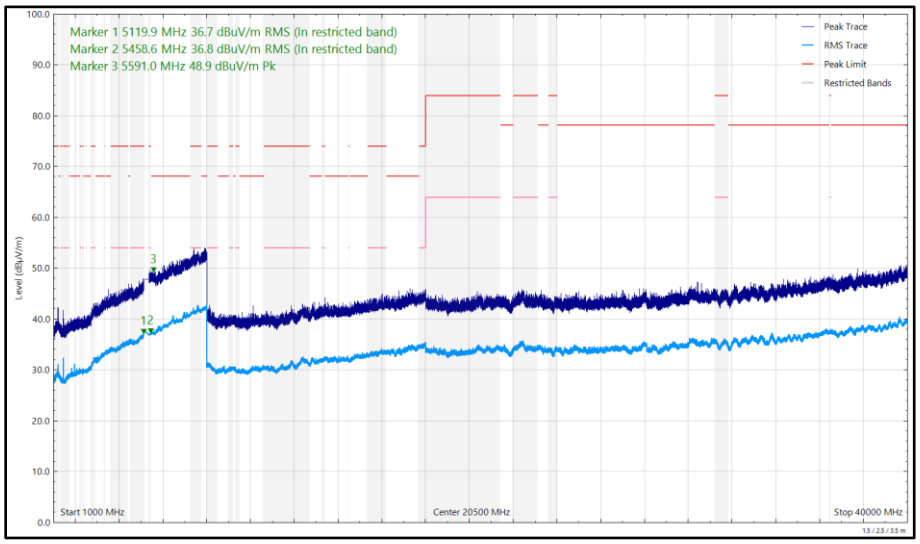

Figure 213 - 5162 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

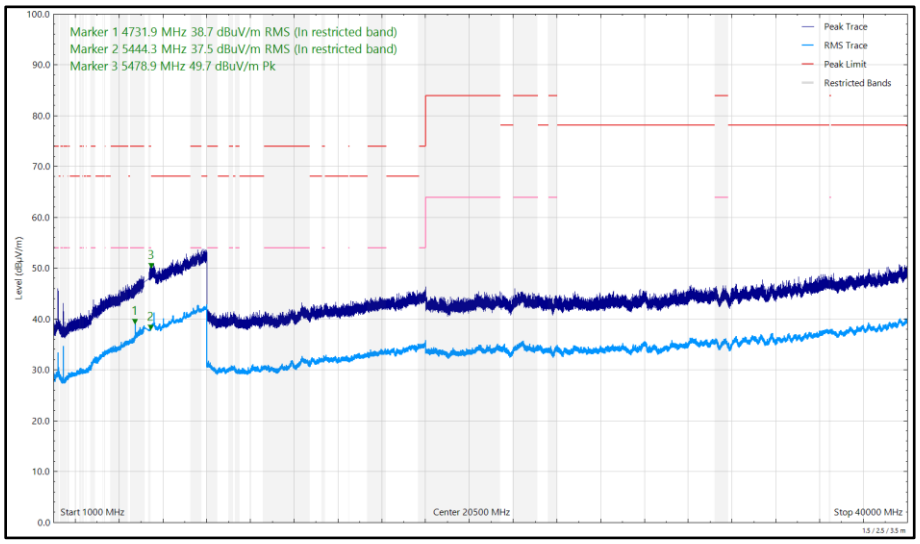

Figure 214 - 5162 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
30.104	20.61	40.00	-19.39	Q-Peak	284	400	Vertical
31.942	33.96	40.00	-6.04	Q-Peak	229	100	Vertical
90.314	27.68	43.50	-15.82	Q-Peak	353	388	Horizontal
99.777	32.13	43.50	-11.37	Q-Peak	73	113	Vertical
102.177	35.46	43.50	-8.04	Q-Peak	0	272	Horizontal
108.110	33.46	43.50	-10.04	Q-Peak	2	296	Horizontal
111.913	33.01	43.50	-10.49	Q-Peak	96	101	Vertical
233.874	26.70	46.00	-19.30	Q-Peak	311	111	Vertical
256.157	25.46	46.00	-20.54	Q-Peak	301	100	Vertical
318.725	29.83	46.00	-16.17	Q-Peak	99	101	Horizontal
327.565	31.38	46.00	-14.62	Q-Peak	97	100	Horizontal
4769.400	40.62	54.00	-13.38	RMS	344	273	Vertical
5073.396	35.47	54.00	-18.53	RMS	125	332	Horizontal
5437.274	36.83	54.00	-17.17	RMS	301	222	Horizontal
5442.820	38.50	54.00	-15.50	RMS	40	315	Vertical
5485.299	50.72	68.20	-17.48	Peak	332	303	Vertical
5575.737	48.56	68.20	-19.64	Peak	199	399	Horizontal

Table 116 - 5203 MHz, DH5, ePA, Core 0 + Core 1, 30 MHz to 40 GHz

No other emissions found within 10 dB of the limit.

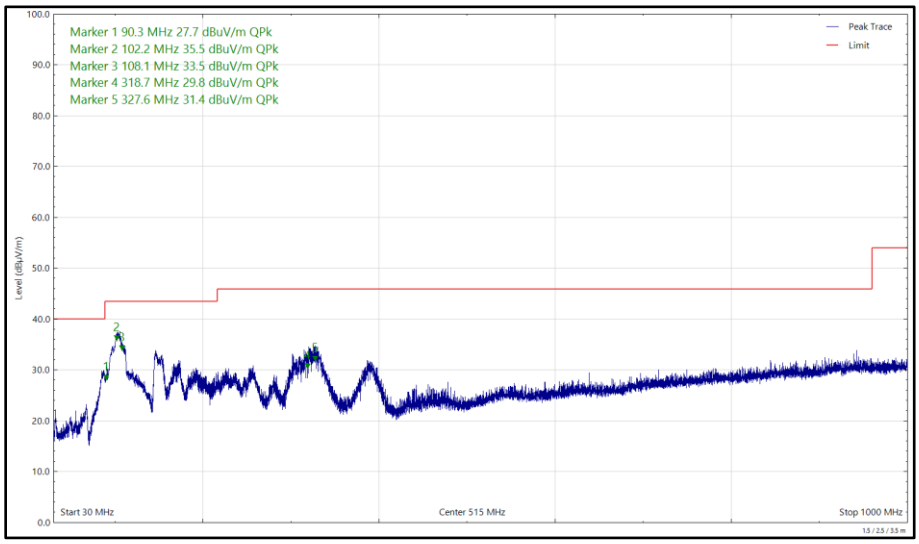

Figure 215 - 5203 MHz, DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

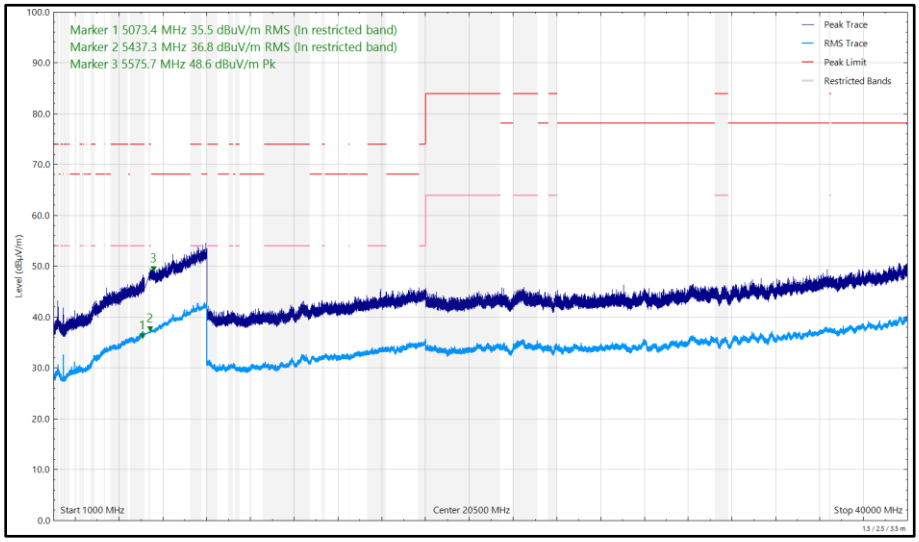

Figure 216 - 5203 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

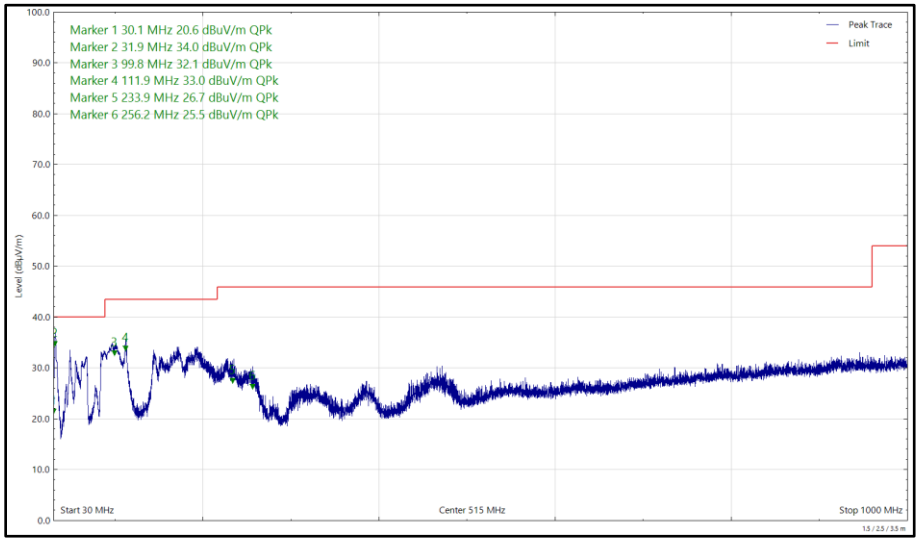

Figure 217 - 5203 MHz, DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

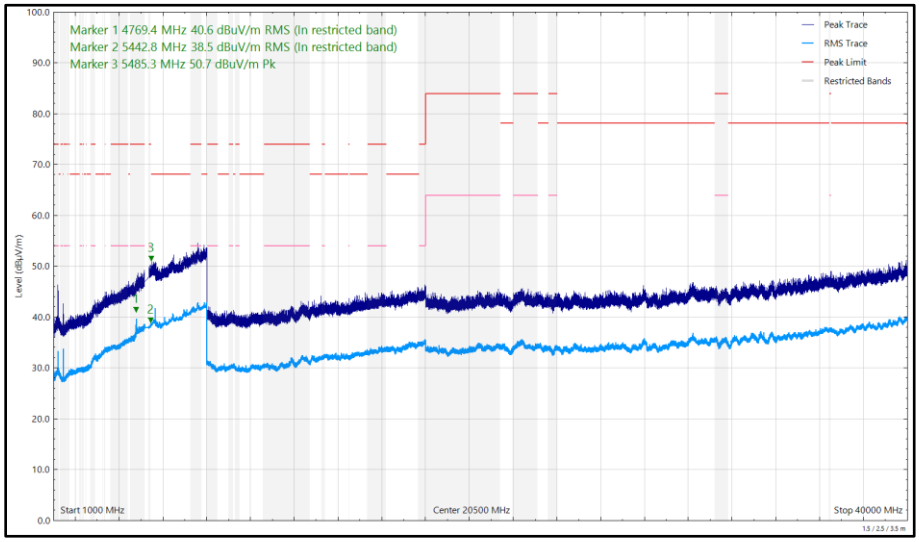

Figure 218 - 5203 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
4807.880	41.21	54.00	-12.79	RMS	347	264	Vertical
5147.567	36.14	54.00	-17.86	RMS	308	378	Horizontal
5424.795	38.26	54.00	-15.74	RMS	34	292	Vertical
5450.851	37.06	54.00	-16.94	RMS	278	390	Horizontal
5532.784	48.69	68.20	-19.51	Peak	104	398	Horizontal
5572.350	50.76	68.20	-17.44	Peak	38	296	Vertical

Table 117 - 5245 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz

No other emissions found within 10 dB of the limit.

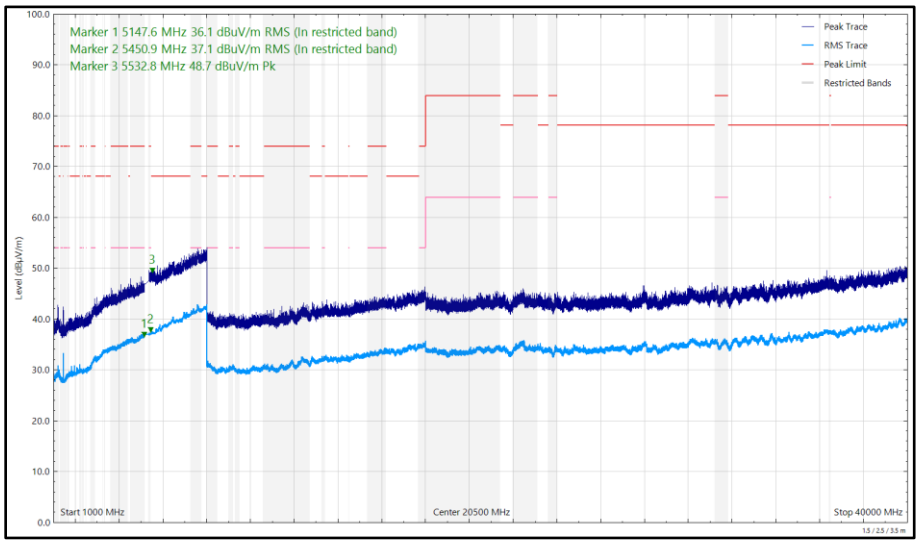

Figure 219 - 5245 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

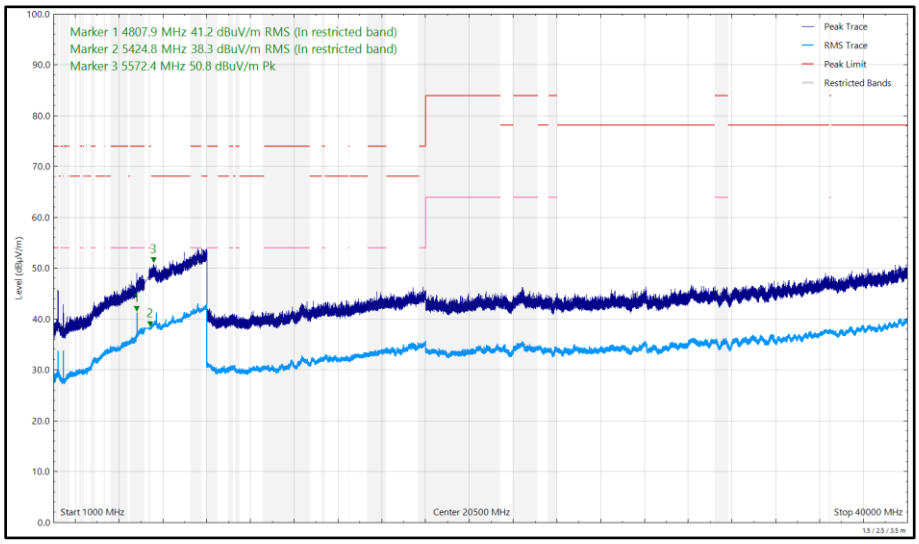

Figure 220 - 5245 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
4914.095	37.57	54.00	-16.43	RMS	346	318	Vertical
5394.691	38.48	54.00	-15.52	RMS	327	307	Vertical
5398.225	36.62	54.00	-17.38	RMS	10	377	Horizontal
5697.347	50.69	68.20	-17.51	Peak	331	367	Vertical
5708.759	49.83	68.20	-18.37	Peak	221	379	Horizontal
5851.694	51.12	68.20	-17.08	Peak	175	207	Horizontal
6166.701	49.48	68.20	-18.72	Peak	350	400	Vertical

Table 118 - 5733 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz

No other emissions found within 10 dB of the limit.

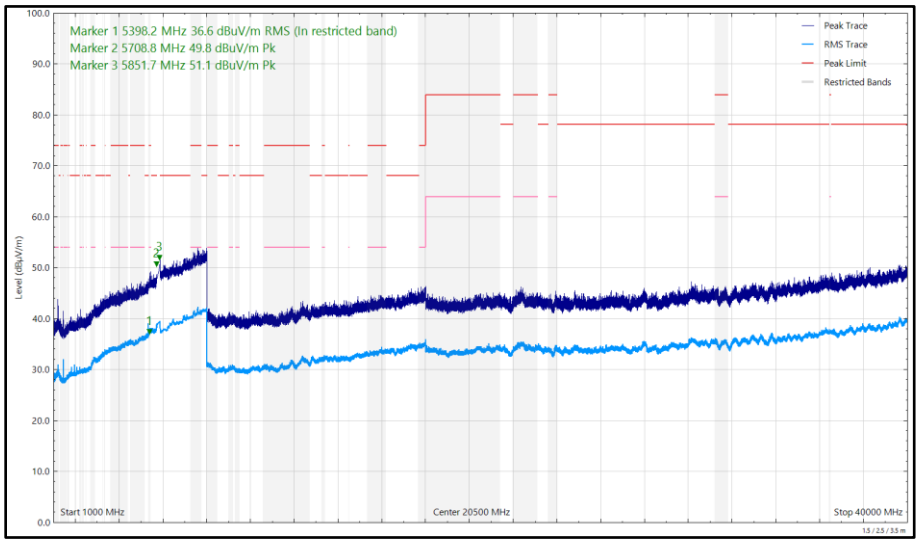

Figure 221 - 5733 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

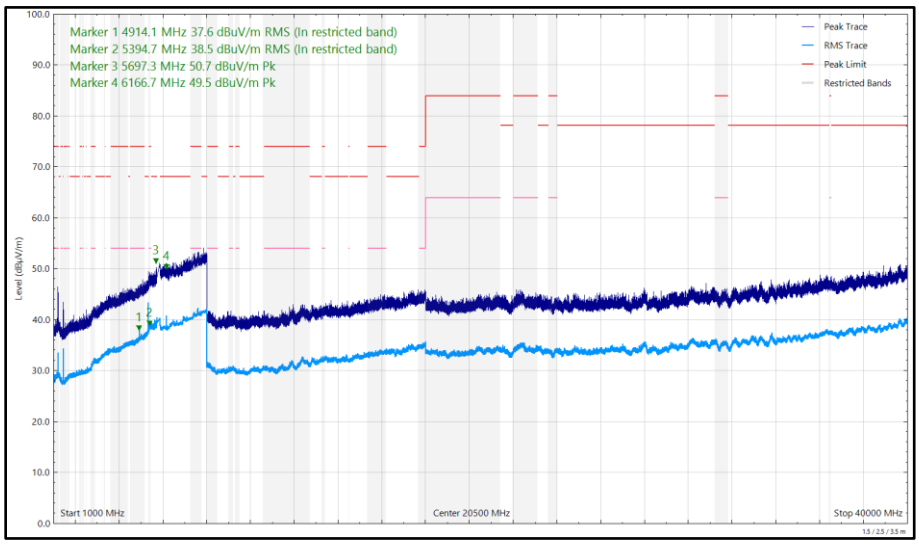

Figure 222 - 5733 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
30.211	20.85	40.00	-19.15	Q-Peak	189	400	Vertical
31.852	33.85	40.00	-6.15	Q-Peak	317	102	Vertical
86.394	27.42	40.00	-12.58	Q-Peak	181	246	Horizontal
100.774	32.73	43.50	-10.77	Q-Peak	39	102	Vertical
101.851	35.28	43.50	-8.22	Q-Peak	4	268	Horizontal
109.034	32.48	43.50	-11.02	Q-Peak	357	274	Horizontal
112.009	33.97	43.50	-9.53	Q-Peak	92	100	Vertical
227.200	27.52	46.00	-18.48	Q-Peak	309	114	Vertical
256.623	24.88	46.00	-21.12	Q-Peak	218	103	Vertical
321.066	30.82	46.00	-15.18	Q-Peak	91	100	Horizontal
326.384	31.03	46.00	-14.97	Q-Peak	79	100	Horizontal
4961.085	38.31	54.00	-15.69	RMS	352	291	Vertical
5374.480	40.14	54.00	-13.86	RMS	295	383	Horizontal
5374.550	43.82	54.00	-10.18	RMS	331	297	Vertical
5717.010	51.50	68.20	-16.70	Peak	38	292	Vertical
5721.864	49.92	68.20	-18.28	Peak	71	372	Horizontal
5942.299	49.87	68.20	-18.33	Peak	27	209	Vertical
6034.062	49.42	68.20	-18.78	Peak	290	124	Horizontal

Table 119 - 5788 MHz, DH5, ePA, Core 0 + Core 1, 30 MHz to 40 GHz

No other emissions found within 10 dB of the limit.

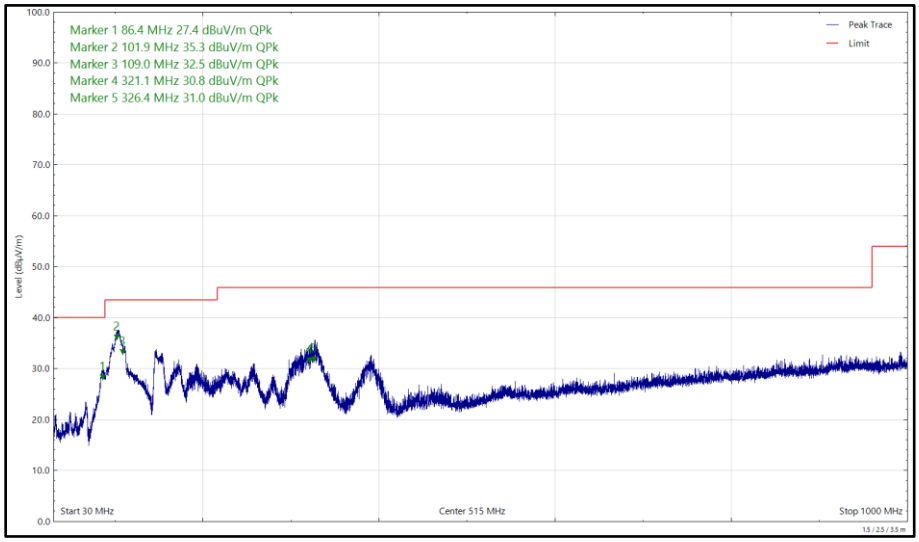

Figure 223 - 5788 MHz, DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

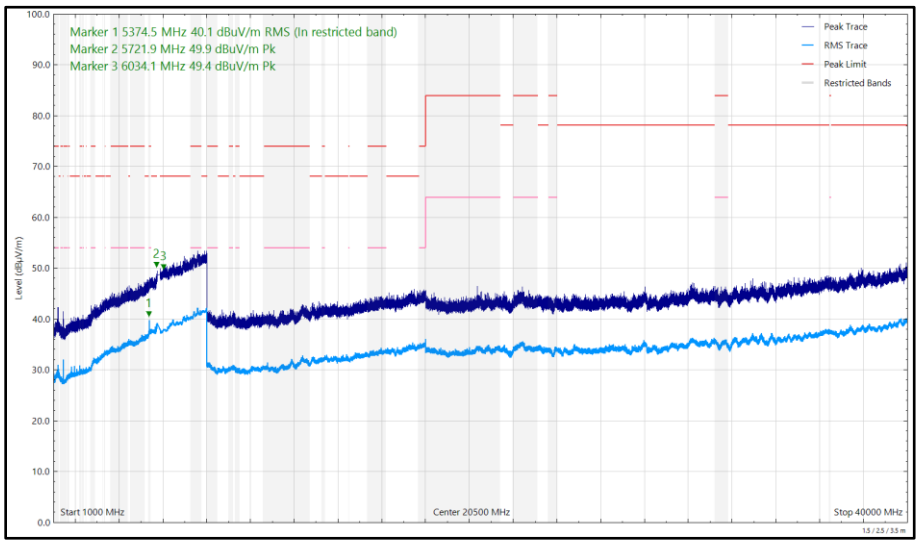

Figure 224 - 5788 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

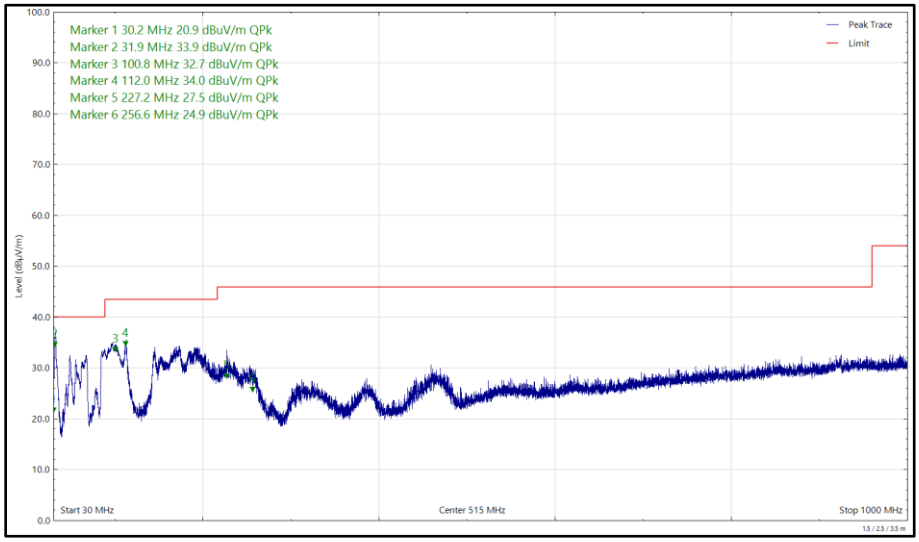

Figure 225 - 5788 MHz, DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

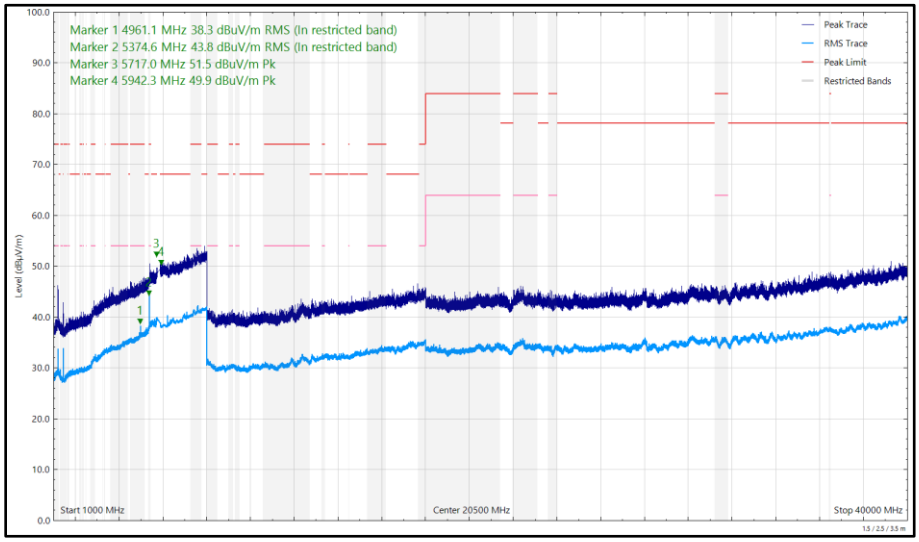

Figure 226 - 5788 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5009.050	37.15	54.00	-16.85	RMS	360	304	Vertical
5131.864	35.07	54.00	-18.93	RMS	83	373	Horizontal
5426.630	46.87	54.00	-7.13	RMS	43	261	Vertical
5426.660	40.97	54.00	-13.03	RMS	290	400	Horizontal
5691.690	52.06	68.20	-16.14	Peak	43	264	Vertical
5703.619	49.31	68.20	-18.89	Peak	196	100	Horizontal
5866.391	50.34	68.20	-17.86	Peak	288	172	Horizontal
5868.911	51.66	68.20	-16.54	Peak	324	284	Vertical

Table 120 - 5844 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz

No other emissions found within 10 dB of the limit.

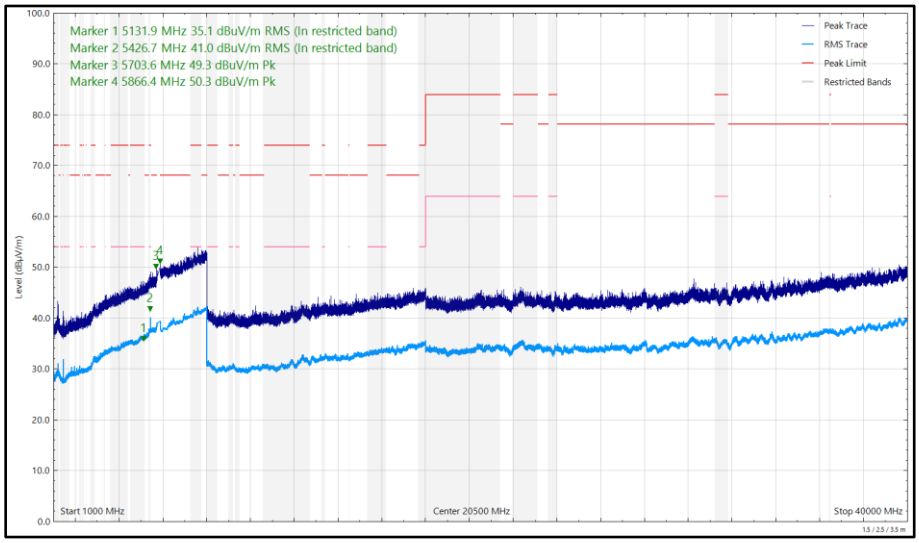

Figure 227 - 5844 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

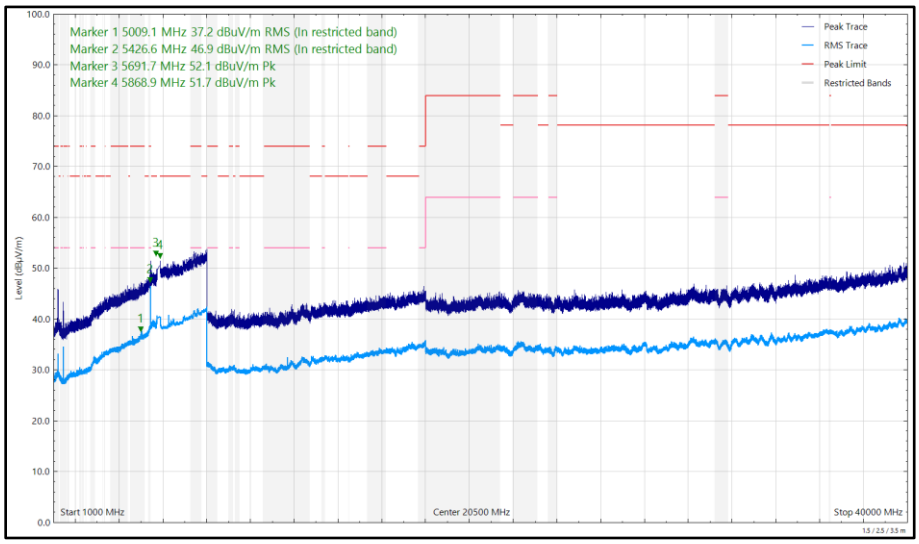

Figure 228 - 5844 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

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 121 - 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 122 - 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, RF Chamber 16 and RF Chamber 17.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
Cable (18 GHz)	Rosenberger	LU7-071-1000	5102	12	21-Nov-2024
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
EMI Test Receiver	Rohde & Schwarz	ESW44	5912	12	07-Aug-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	5957	-	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
3m Semi-Anechoic Chamber, Chamber16	Albatross Projects	RF Chamber 16	5972	36	24-May-2025
Mast & Turntable Controller	Maturo Gmbh	FCU3.0	5973	-	TU
Tilt Antenna Mast	Maturo Gmbh	BAM4.5-P	5974	-	TU
Turntable	Maturo Gmbh	TT1.5SI	5975	-	TU
Cable (N to N 8m)	Junkosha	MWX221-08000NMSNMS/A	6006	12	20-May-2025
Cable (N to N 3m)	Junkosha	MWX221-03000NMSNMS/A	6025	12	20-May-2025
Digital Multimeter	Fluke	115	6146	12	06-Jun-2025
Digital Multimeter	Fluke	115	6147	12	06-Jun-2025
8GHz Highpass Filter	Wainwright	WHKX 7150 8000 18000 50SS	6194	12	23-Apr-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
Attenuator 4dB	Pasternack	PE7074-4	6204	24	20-Jun-2026
Cable (SMA to SMA 20cm)	TUV SUD	MH-FH 8-18	6215	12	23-Apr-2025
EMI Test Receiver	Rohde & Schwarz	ESW44	6294	12	06-Jan-2025
USB Spectrum Analyser	Signal Hound	SA124B	6296	-	TU
USB Spectrum Analyser	Signal Hound	SA124B	6298	-	TU
Cable (K Type 2m)	Junkosha	MWX241-02000KMSKMS/B	6324	12	04-Feb-2025
Digital Multimeter	Fluke	115	6345	12	24-Jul-2025

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
Humidity and Temperature Meter	R.S Components	1364	6346	12	06-Mar-2025
SAC Switch Unit	TUV SUD	TUV_SSU_004 PLC	6349	12	07-May-2025
USB Spectrum Analyser	Signal Hound	SA124B	6383	-	TU
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9168	6456	24	10-Feb-2025
Horn Antenna (1–10.5 GHz)	Schwarzbeck	BBHA 9120 B	6457	12	05-May-2025
DRG Horn Antenna (8-18 GHz)	Schwarzbeck	HWRD750	6458	12	05-May-2025
AC Power Supply	iTech	IT7324	6657	-	O/P Mon
3m Semi-Anechoic Chamber	Albatross Projects	RF Chamber 17	6658	36	28-Jan-2026
Mast and Turntable Controller	Maturo Gmbh	FCU3.0	6659	-	TU
Tilt Antenna Mast	Maturo Gmbh	BAM4.5-P	6660	-	TU
Turntable	Maturo Gmbh	TT1.5SI	6661	-	TU
8m Cable	Junkosha	MWX221-08000AMSAMS/B	6748	12	01-Feb-2025
Double Ridge Active Horn Antenna (18-40 GHz	Com-Power	AHA-840	6771	24	17-Jan-2025
8M SMA Cable	Junkosha	MWX221-08000AMSAMS/B	6833	12	14-Aug-2025
8M SMA Cable	Junkosha	MWX221-08000AMSAMS/B	6834	12	14-Aug-2025
Handheld Hygrometer	Fluke	971	6838	12	27-Aug-2025
1m SMA-Type Cable	Junkosha	MWX221-01000AMSAMS/B	6844	12	05-Sep-2025
8m SMA-Type Cable	Junkosha	MWX221-08000AMSAMS/B	6847	12	15-Nov-2025
Cable Assembly	SpecTech	PE300-60	6857	-	TU
Cable Assembly	SpecTech	PE300-60	6858	-	TU
Cable Assembly	SpecTech	PE300-60	6859	-	TU
Cable Assembly	SpecTech	PE300-60	6860	-	TU
Cable Assembly	SpecTech	PE300-60	6866	-	TU
Cable Assembly	SpecTech	PE300-60	6867	-	TU

Table 123

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	± 144.25 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 124

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.