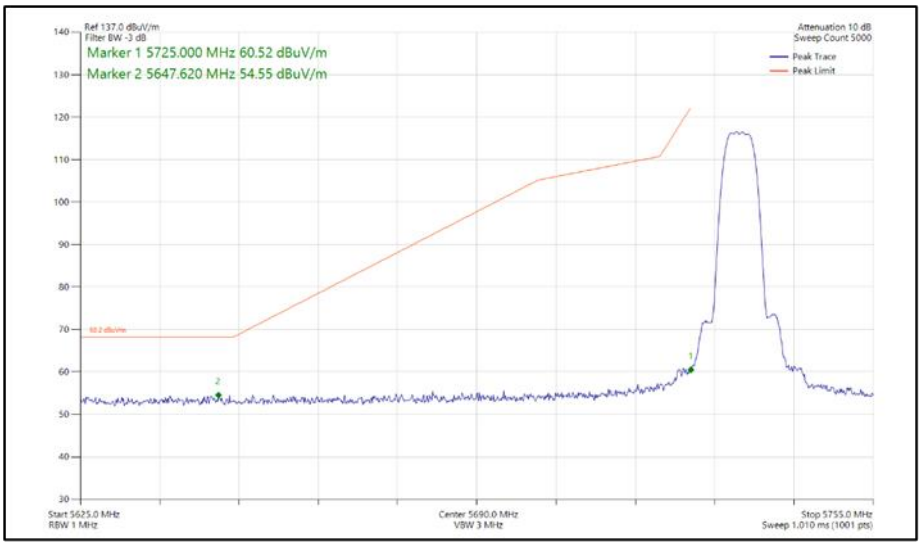

Figure 211 - HDR8, SISO, Core 1 - 5733 MHz
Band Edge Frequency 5725 MHz

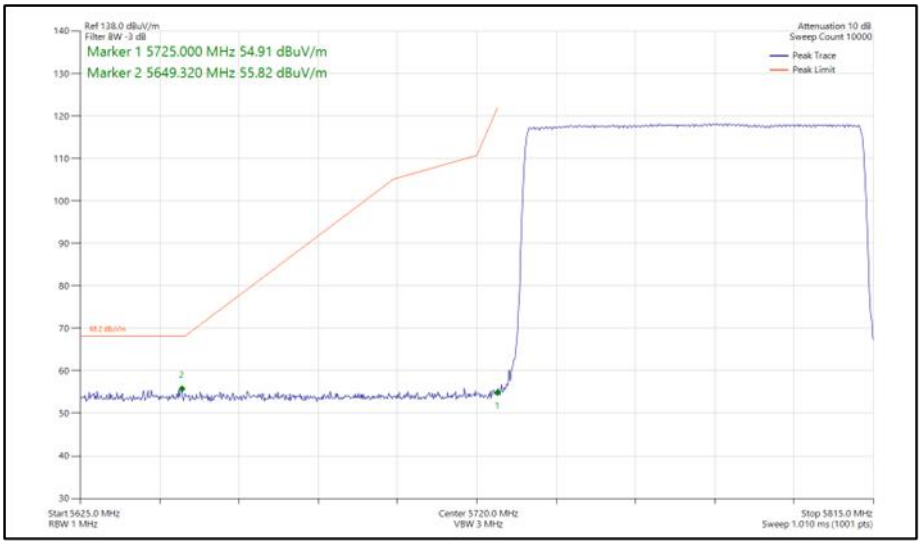

Figure 212 - HDR4, SISO, Core 1 - 5733-5811 MHz
Band Edge Frequency 5725 MHz

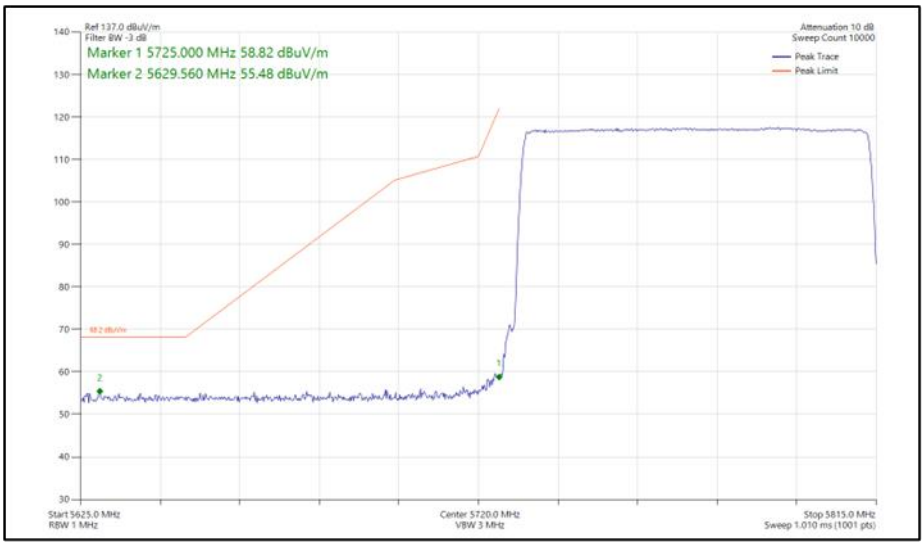

Figure 213 - HDR8, SISO, Core 1 - 5733-5811 MHz
Band Edge Frequency 5725 MHz

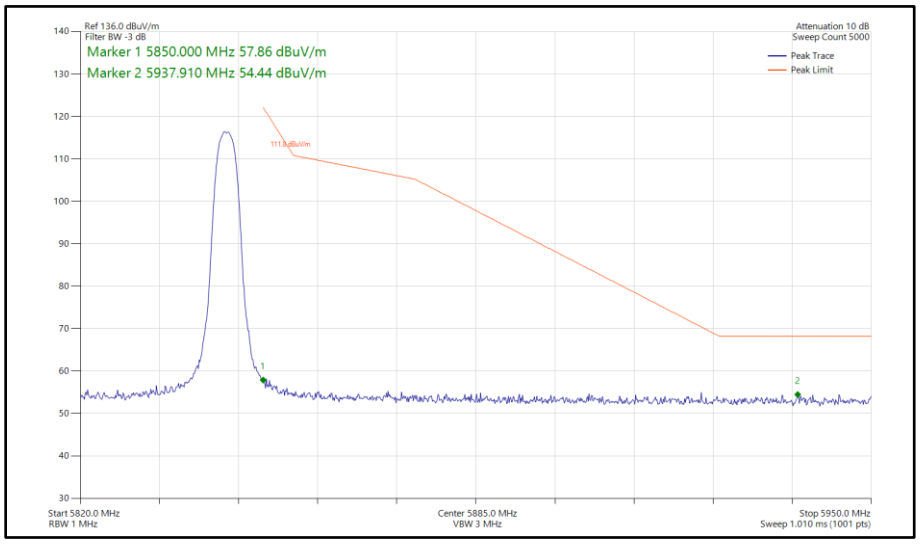

Figure 214 - HDR4, SISO, Core 1 - 5844 MHz
Band Edge Frequency 5850 MHz

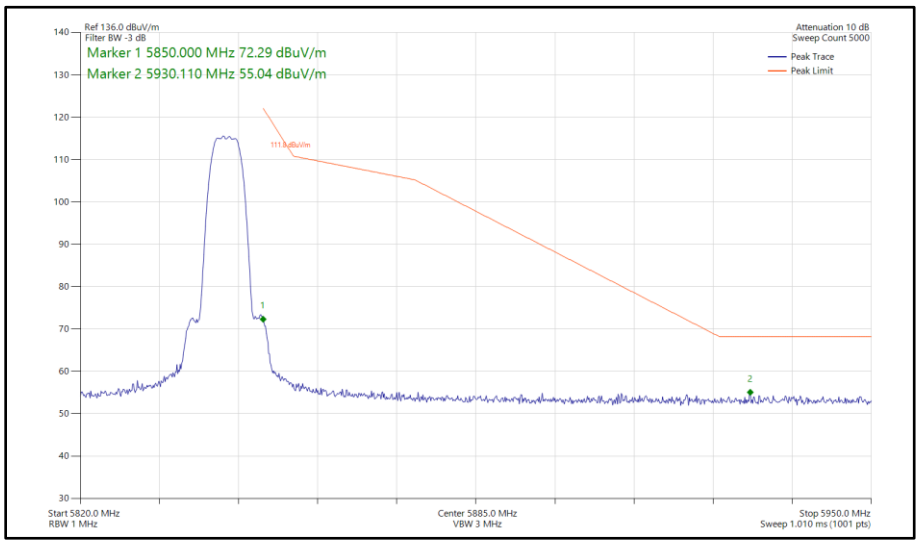

Figure 215 - HDR8, SISO, Core 1 - 5844 MHz
Band Edge Frequency 5850 MHz

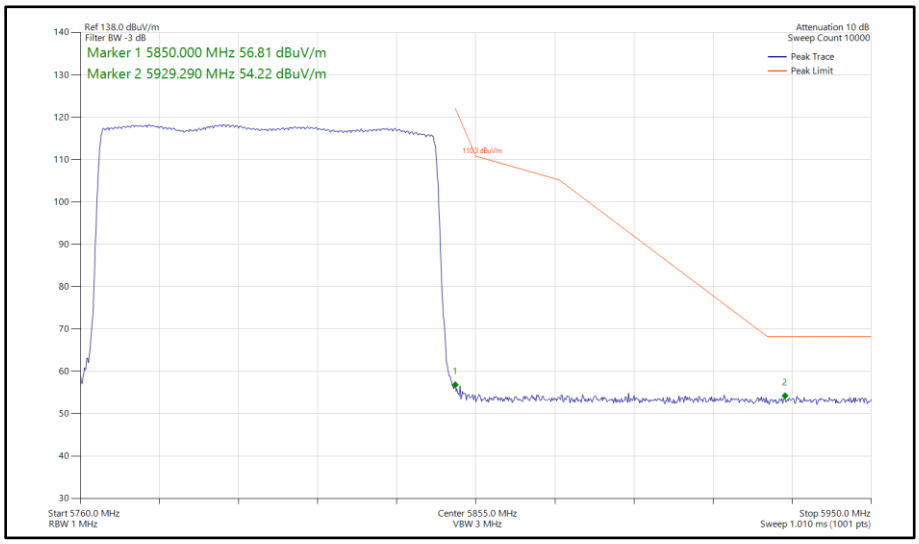

Figure 216 - HDR4, SISO, Core 1 - 5766-5844 MHz
Band Edge Frequency 5850 MHz

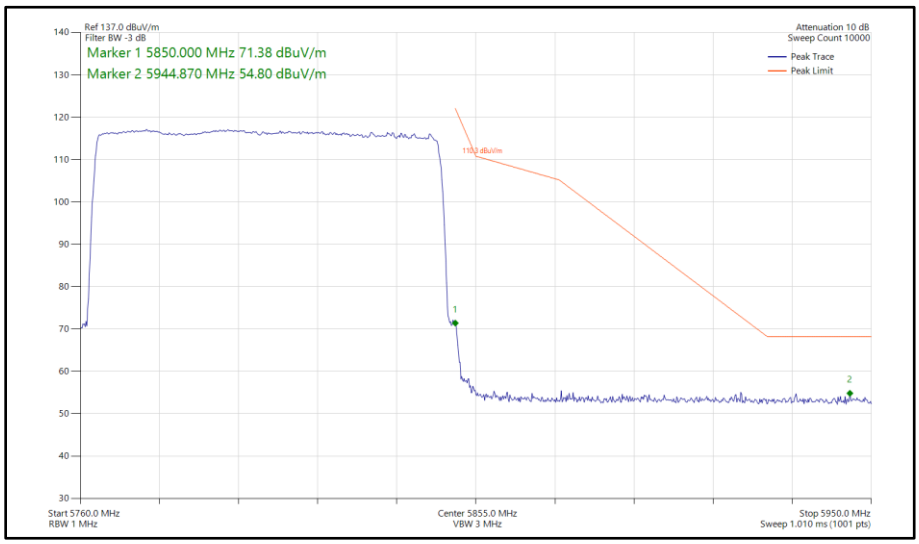

Figure 217 - HDR8, SISO, Core 1 - 5766-5844 MHz
Band Edge Frequency 5850 MHz

ePA - Core 0 - Core 1 (MIMO)

Mode	Packet Type	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBµV/m)
Static	HDR4	5733	5725	55.69
Static	HDR8	5733	5725	56.04
Hopping	HDR4	5733-5811	5725	55.20
Hopping	HDR8	5733-5811	5725	54.42
Static	HDR4	5844	5850	56.04
Static	HDR8	5844	5850	55.65
Hopping	HDR4	5766-5844	5850	54.97
Hopping	HDR8	5766-5844	5850	54.96

Table 107 - MIMO Authorised Band Edge Results

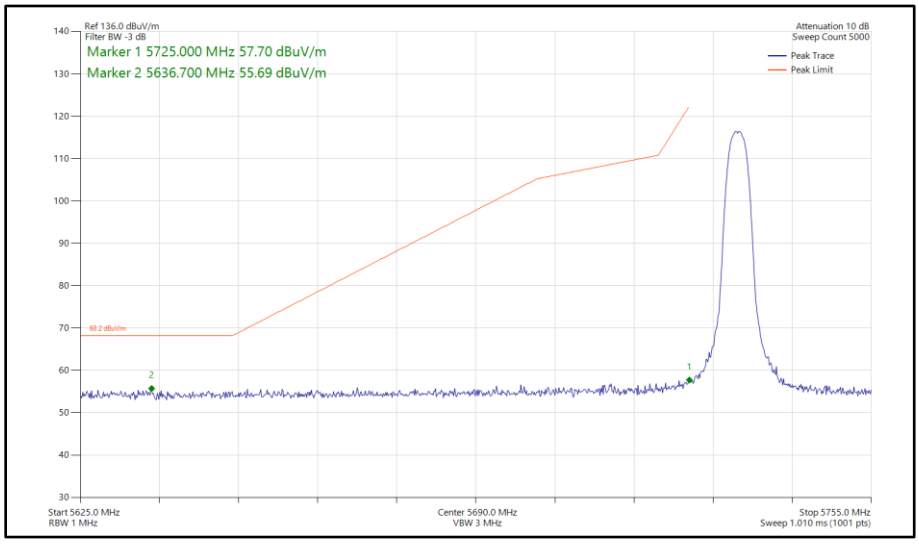

Figure 218 - HDR4, MIMO, Core 0 - Core 1 - 5733 MHz Band Edge Frequency 5725 MHz

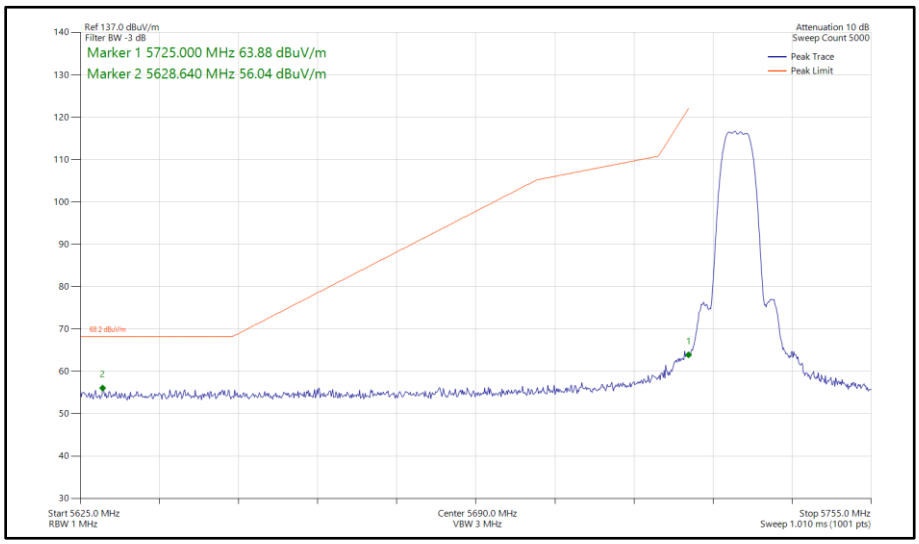

Figure 219 - HDR8, MIMO, Core 0 - Core 1 - 5733 MHz
Band Edge Frequency 5725 MHz

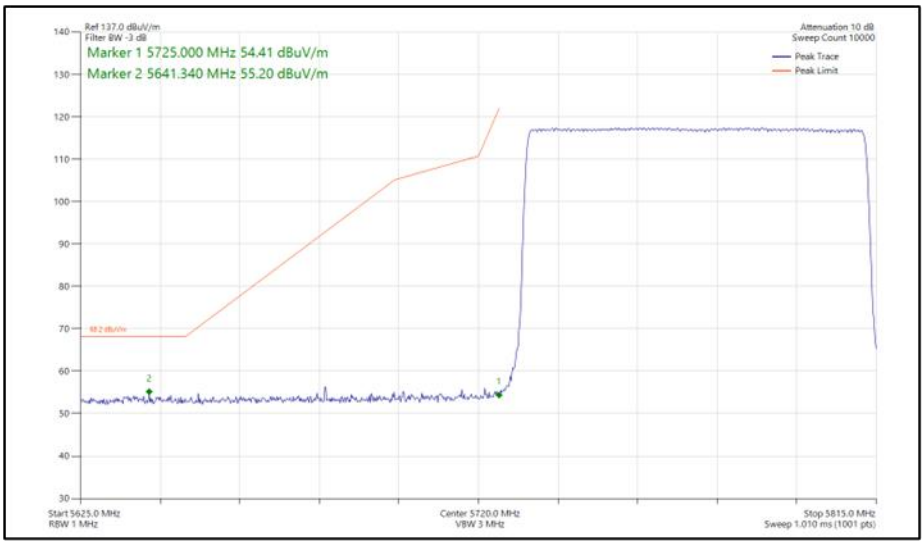

Figure 220 - HDR4, MIMO, Core 0 - Core 1 - 5733-5811 MHz
Band Edge Frequency 5725 MHz

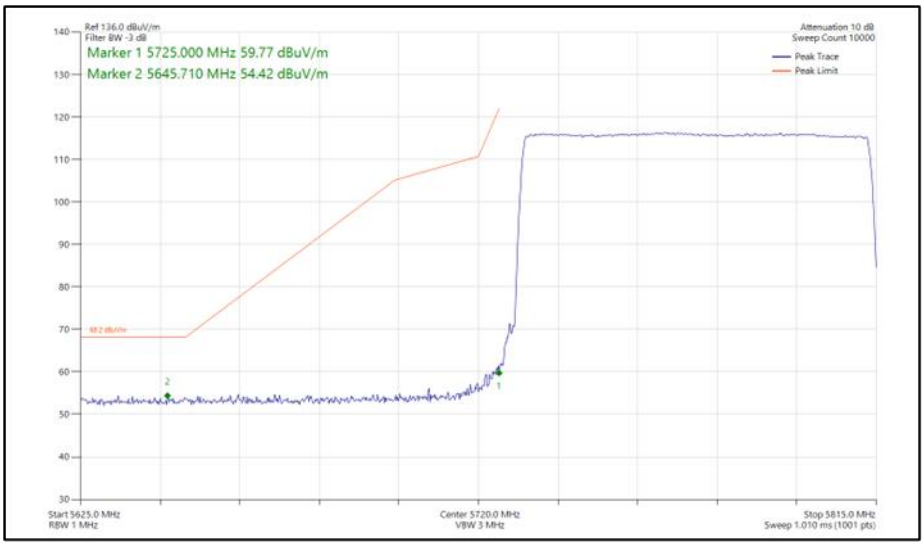

Figure 221 - HDR8, MIMO, Core 0 - Core 1 - 5733-5811 MHz Band Edge Frequency 5725 MHz

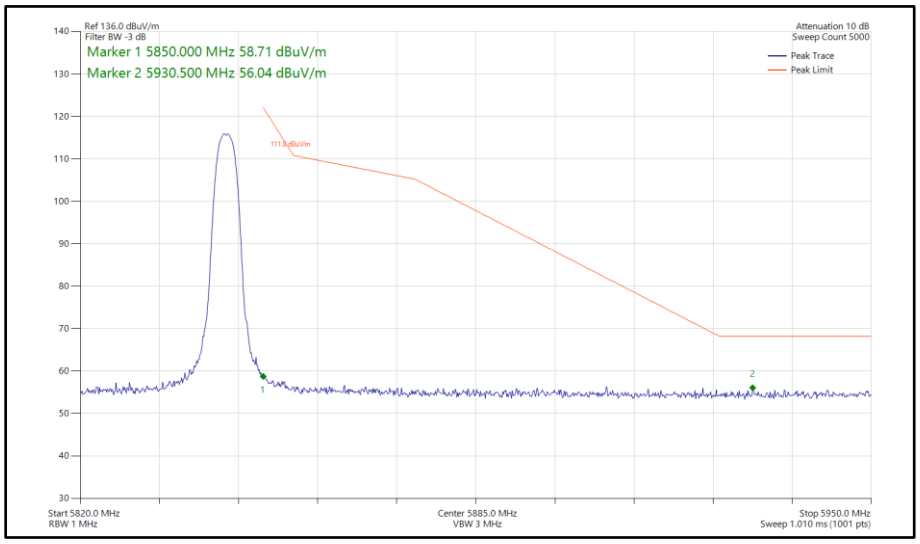

Figure 222 - HDR4, MIMO, Core 0 - Core 1 - 5844 MHz Band Edge Frequency 5850 MHz

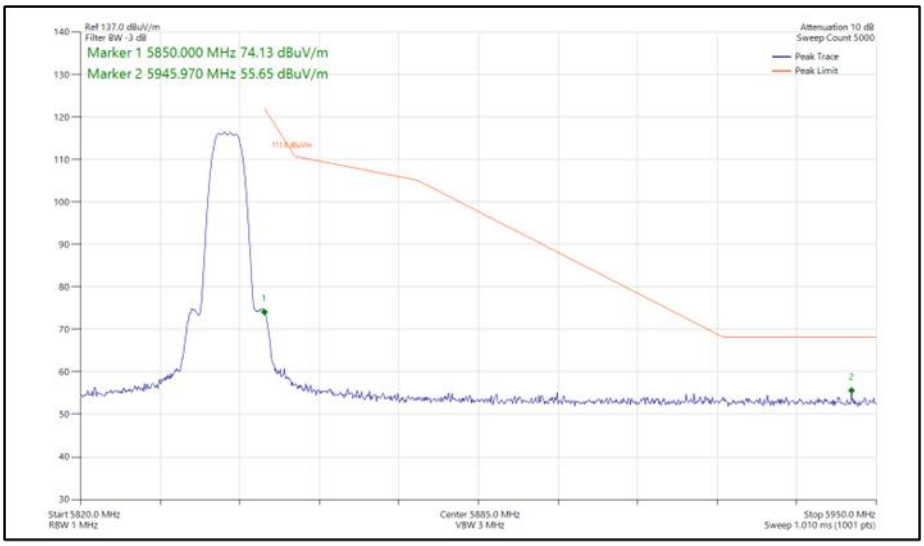

Figure 223 - HDR4, MIMO, Core 0 - Core 1 - 5844 MHz Band Edge Frequency 5850 MHz

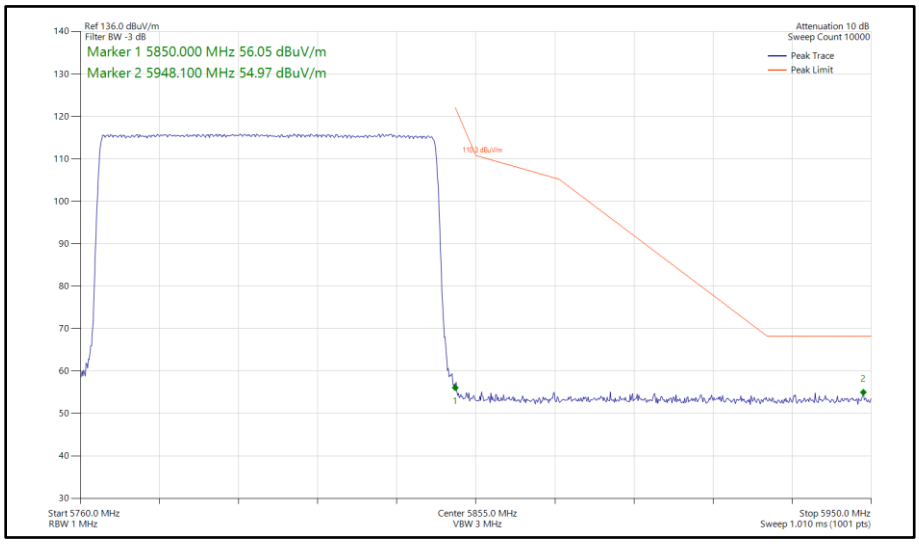

Figure 224 - HDR4, MIMO, Core 0 - Core 1 - 5766-5844 MHz Band Edge Frequency 5850 MHz

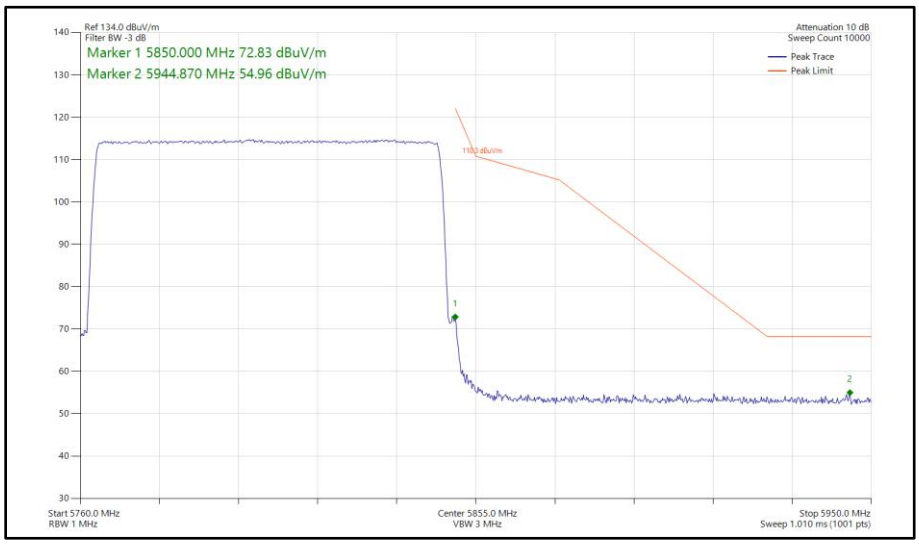

Figure 225 - HDR8, MIMO, Core 0 - Core 1 - 5766-5844 MHz Band Edge Frequency 5850 MHz

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

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.

ISED RSS-247, Limit Clause 6.2.1.2, 6.2.2.2, 6.2.3.2, 6.2.4.2 and 6.2.5.3

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.

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.

2.5.7 Test Location and Test Equipment Used

This test was carried out in RF Chamber 14.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
Emissions Software	TUV SUD	EmX V3.2.0	5125	-	Software
EMI Test Receiver	Rohde & Schwarz	ESW44	5912	12	05-Jul-2024
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
Cable (SMA to SMA 4.5m)	Junkosha	MWX221-04500AMSAMS/A	6002	12	14-Sep-2024
Horn Antenna (1-10 GHz)	Schwarzbeck	BBHA9120B	6141	12	05-May-2025
Digital Multimeter	Fluke	115	6145	12	15-Jun-2024
Humidity & Temperature meter	R.S Components	1364	6149	12	07-Jul-2024
Cable (SMA to SMA 3m)	Junkosha	MWX221-03000AMSAMS/A	6316	12	04-Feb-2025
1m Cable	Junkosha	MWX241-01000AMSAMS/B	6741	12	01-Feb-2025

Table 108

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

2.6 Spurious Radiated Emissions

2.6.1 Specification Reference

FCC 47 CFR Part 15E, Clause 15.209 and 15.407 (b)
ISED RSS-247, Clause 6.2
ISED RSS-GEN, Clause 6.13 and 8.9

2.6.2 Equipment Under Test and Modification State

A3247, S/N: KN47NTDQRY - Modification State 0

2.6.3 Date of Test

05-June-2024 to 22-June-2024

2.6.4 Test Method

This test was performed in accordance with ANSI C63.10, clause 6.3, 6.5 and 6.6.

Ports on the EUT were terminated with loads as described in ANSI C63.10 clause 6.2.3.

Measurements were undertaken from 30 MHz to 40 GHz on Channel 5203 (5203 MHz) and Channel 5788 (5788 MHz).

For the purpose of this testing, spurious emissions were limited to 1 GHz to 40 GHz on all other test channels.

The plots shown are the characterization of the EUT. The limits on the plots represent the most stringent case for restricted bands, (54/74 dBuV/m @ 3 m and 64/84 dBuV/m @ 1m) when compared to -27 dBm/MHz EIRP outside restricted bands. The limits shown have been used as a threshold to determine where further measurements are necessary. Where results are within 20dB of the limits shown on the plots, further investigation was carried out and reported in results tables.

The following conversion can be applied to convert from dBµV/m to µV/m:
10^(Field Strength in dBµV/m/20).

EIRP was converted to field strength at 3m using the following formula:
Field Strength (dBµV/m at 3 m) = EIRP (dBm) + 95.2 dB

2.6.5 Test Setup Diagram

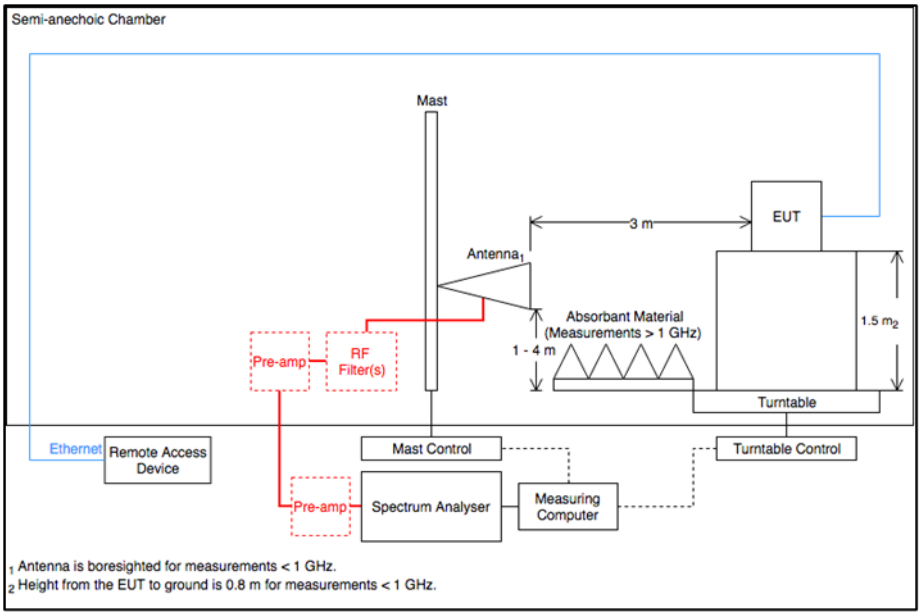

Figure 226 - Radiated Emissions Test Setup Diagram

2.6.6 Environmental Conditions

Ambient Temperature	20.4 - 23.3 °C
Relative Humidity	39.2 - 46.1 %

2.6.7 Test Results

Narrowband

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5119.821	36.73	54.00	-17.27	RMS	197	398	Horizontal
5119.948	36.67	54.00	-17.33	RMS	309	186	Vertical
5386.208	37.03	54.00	-16.97	RMS	41	386	Vertical
5401.433	37.24	54.00	-16.76	RMS	22	134	Horizontal
5470.607	49.56	68.20	-18.64	Peak	311	376	Vertical
5503.421	49.45	68.20	-18.75	Peak	303	152	Horizontal
6975.802	54.68	68.20	-13.52	Peak	152	356	Horizontal
7605.658	54.39	74.00	-19.61	Peak	149	381	Horizontal
7609.459	42.94	54.00	-11.06	RMS	69	123	Horizontal
7609.485	42.89	54.00	-11.11	RMS	299	348	Vertical
7609.960	55.05	74.00	-18.95	Peak	242	345	Vertical

Table 109 - 5162 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz

No other emissions found within 10 dB of the limit.

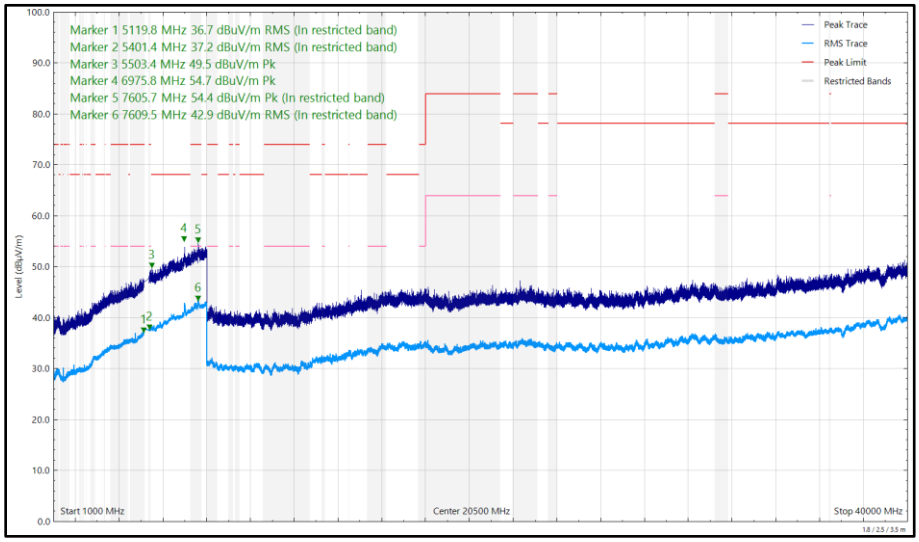

Figure 227 - 5162 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

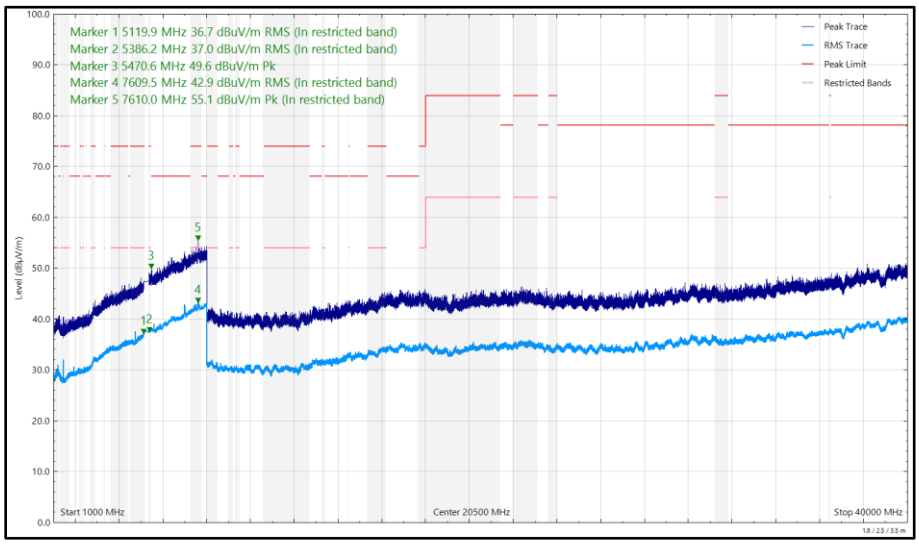

Figure 228 - 5162 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
4769.440	35.03	54.00	-18.97	RMS	351	323	Vertical
5146.165	35.84	54.00	-18.16	RMS	129	102	Horizontal
5466.667	49.53	68.20	-18.67	Peak	335	397	Horizontal
5508.827	49.28	68.20	-18.92	Peak	131	390	Vertical
7607.660	42.67	54.00	-11.33	RMS	141	304	Vertical
7608.705	42.68	54.00	-11.32	RMS	80	312	Horizontal

Table 110 - 5203 MHz, DH5, iPA, Core 0 + Core 1, 30 MHz to 40 GHz

No other emissions found within 10 dB of the limit.

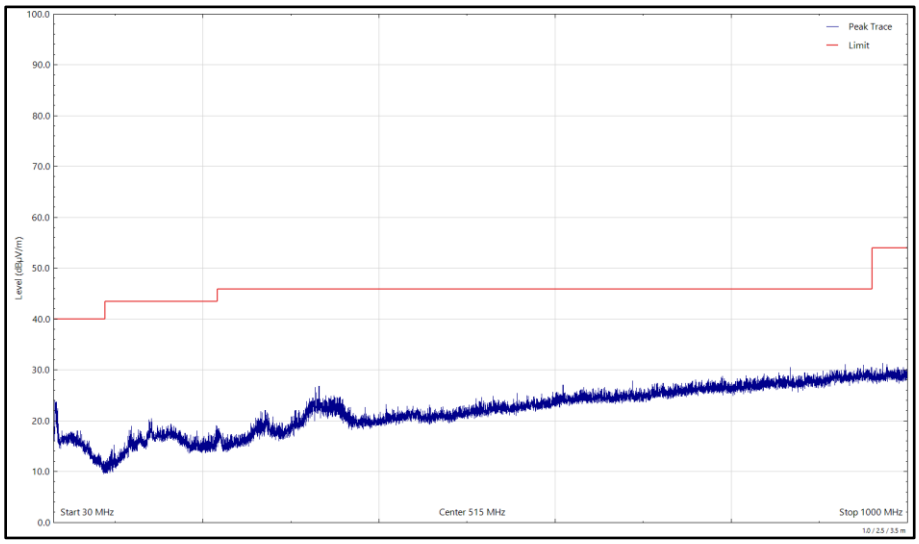

Figure 229 - 5203 MHz, DH5, iPA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

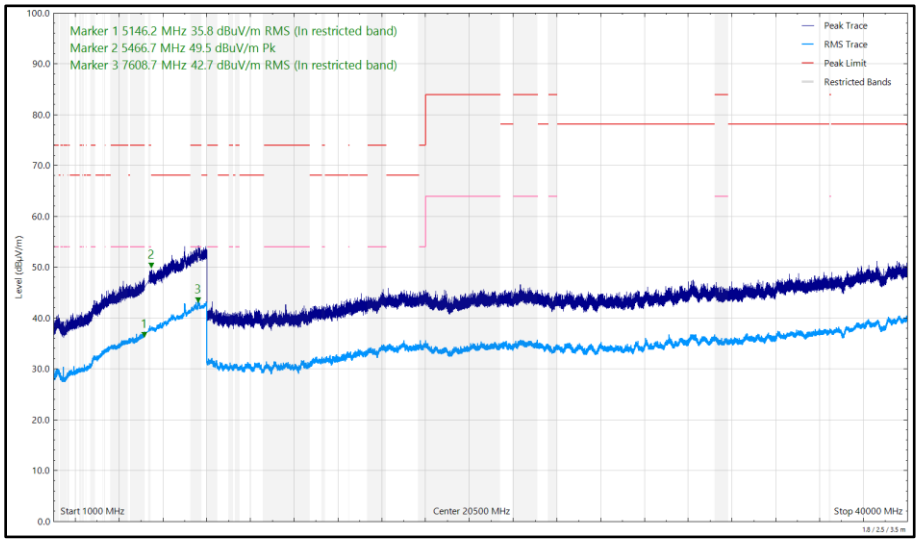

Figure 230 - 5203 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

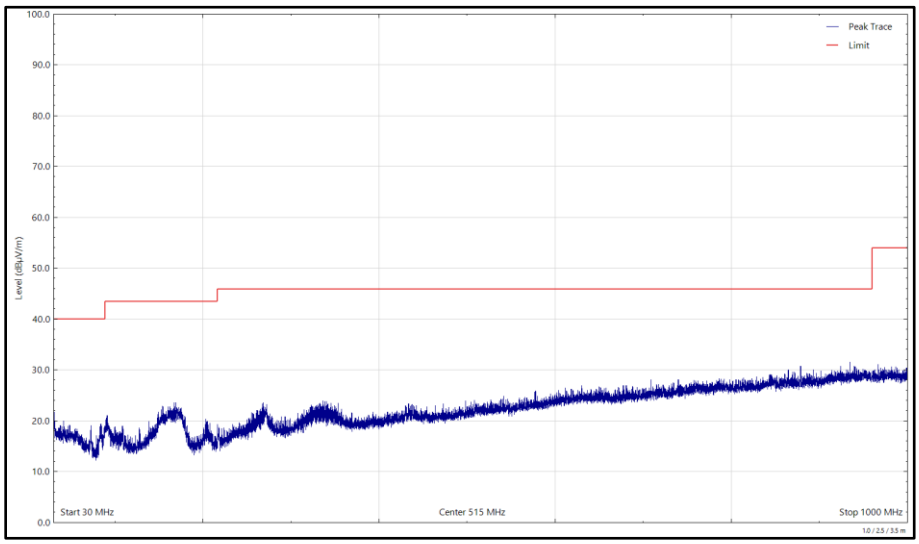

Figure 231 - 5203 MHz, DH5, iPA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

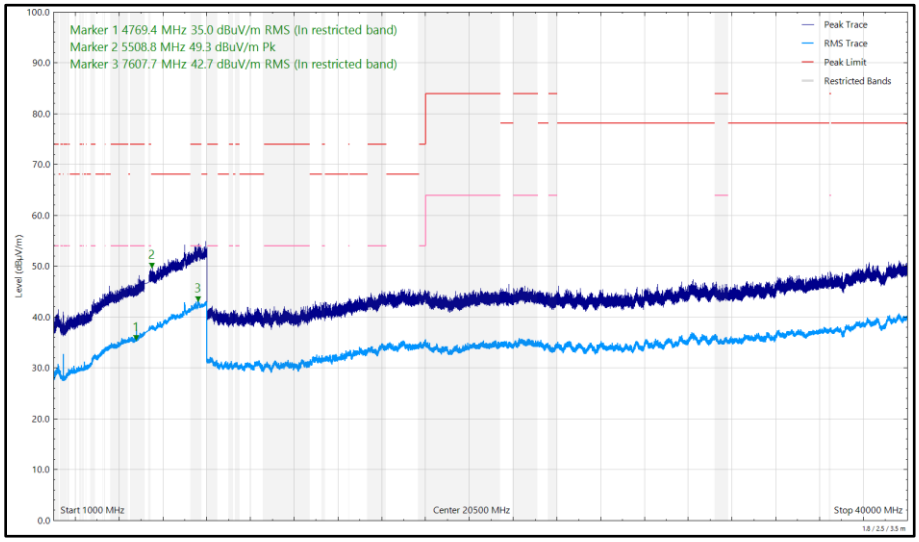

Figure 232 - 5203 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5485.778	49.98	68.20	-18.22	Peak	312	322	Vertical
5491.859	49.19	68.20	-19.01	Peak	190	376	Horizontal
7606.509	55.38	74.00	-18.62	Peak	2	120	Vertical
7608.604	42.71	54.00	-11.29	RMS	226	120	Vertical
7609.804	42.76	54.00	-11.24	RMS	99	362	Horizontal

Table 111 - 5245 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz

No other emissions found within 10 dB of the limit.

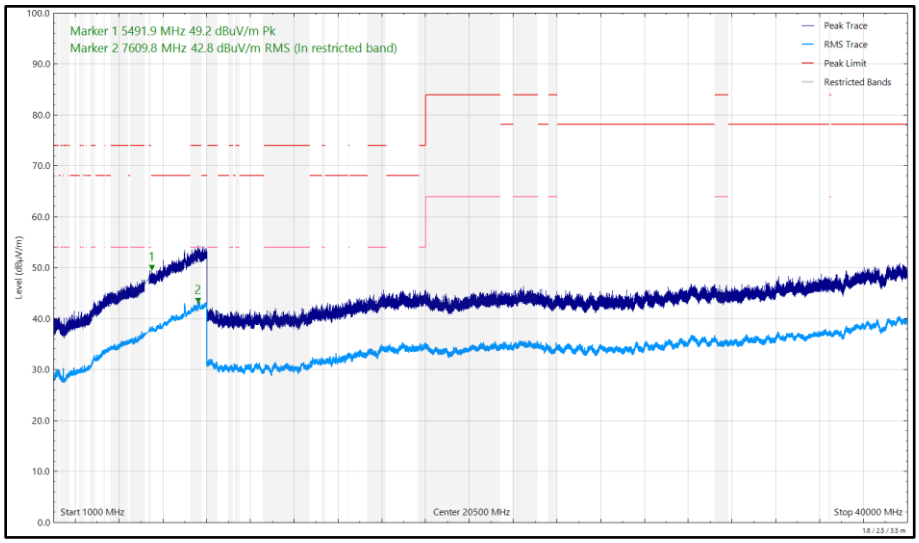

Figure 233 - 5245 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

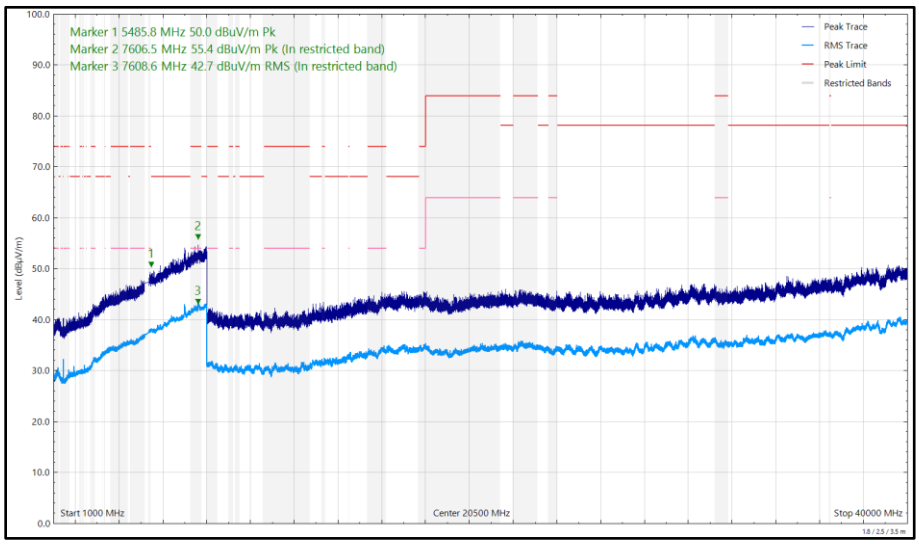

Figure 234 - 5245 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5323.395	51.30	68.20	-16.90	Peak	215	202	Horizontal
5404.851	36.82	54.00	-17.18	RMS	219	235	Vertical
5454.693	36.83	54.00	-17.17	RMS	214	227	Horizontal
5850.481	50.97	68.20	-17.23	Peak	10	395	Horizontal
5850.509	50.43	68.20	-17.77	Peak	332	386	Vertical
7605.290	42.10	54.00	-11.90	RMS	1	375	Horizontal
7606.255	42.02	54.00	-11.98	RMS	210	371	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.

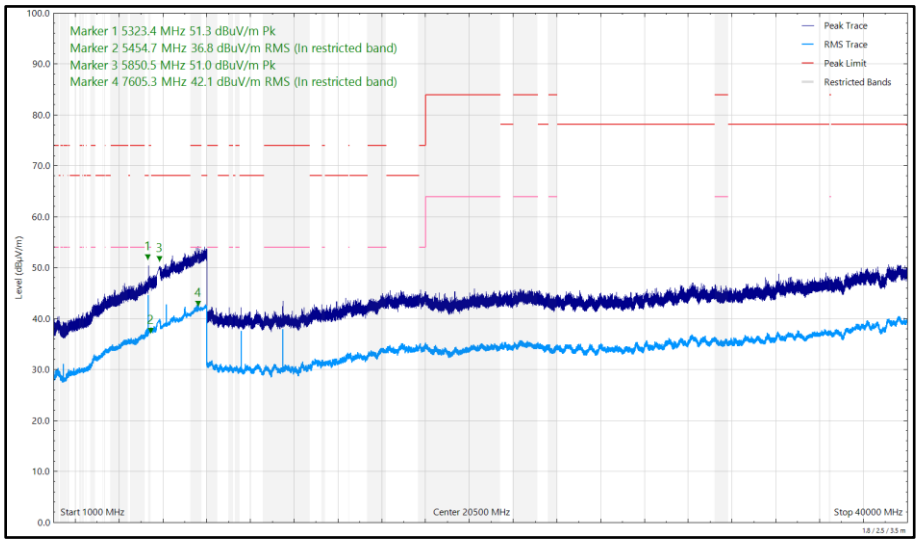

Figure 235 - 5733 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

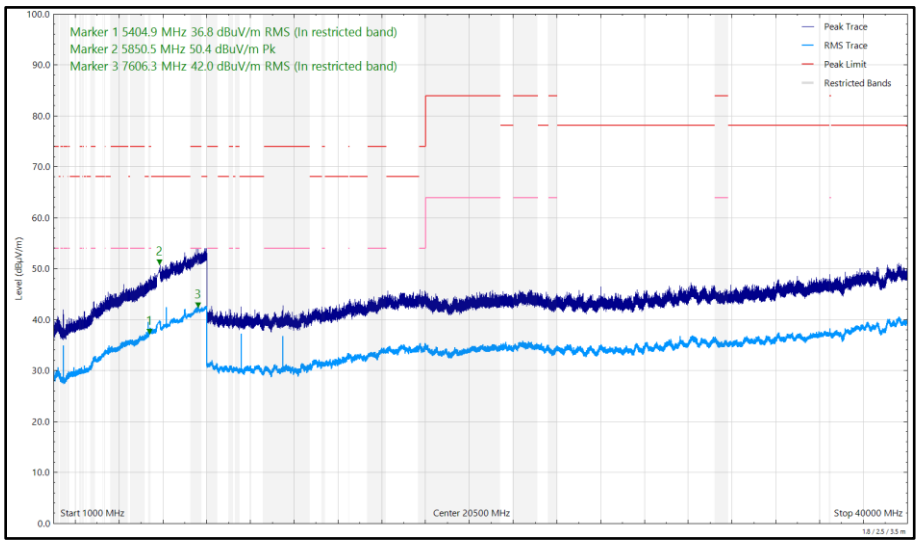

Figure 236 - 5733 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5374.505	37.14	54.00	-16.86	RMS	307	294	Vertical
5374.515	39.96	54.00	-14.04	RMS	167	392	Horizontal
5709.427	49.75	68.20	-18.45	Peak	143	343	Horizontal
5723.866	49.96	68.20	-18.24	Peak	360	139	Vertical
5850.991	50.86	68.20	-17.34	Peak	354	123	Vertical
5860.045	50.57	68.20	-17.63	Peak	234	268	Horizontal
7605.046	41.96	54.00	-12.04	RMS	277	332	Horizontal
7607.124	42.01	54.00	-11.99	RMS	68	211	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.

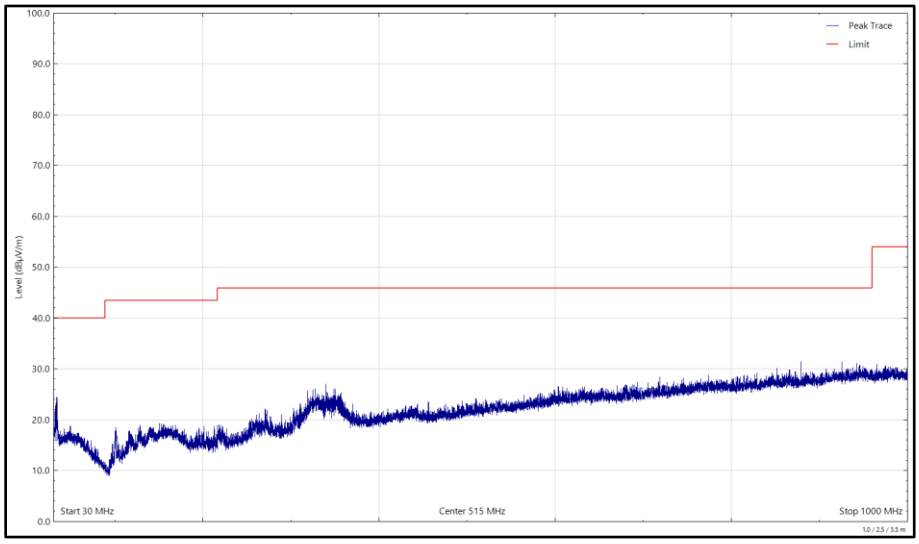

Figure 237 - 5788 MHz, DH5, iPA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

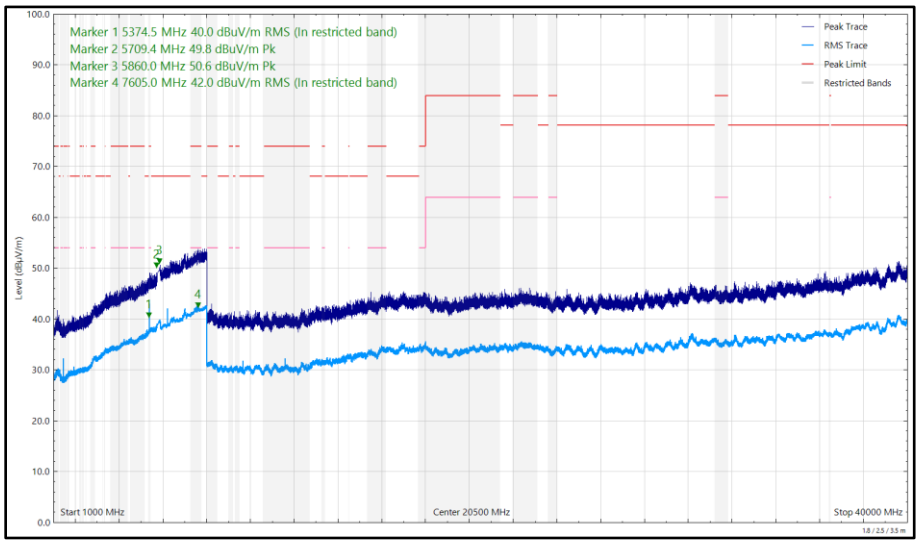

Figure 238 - 5788 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

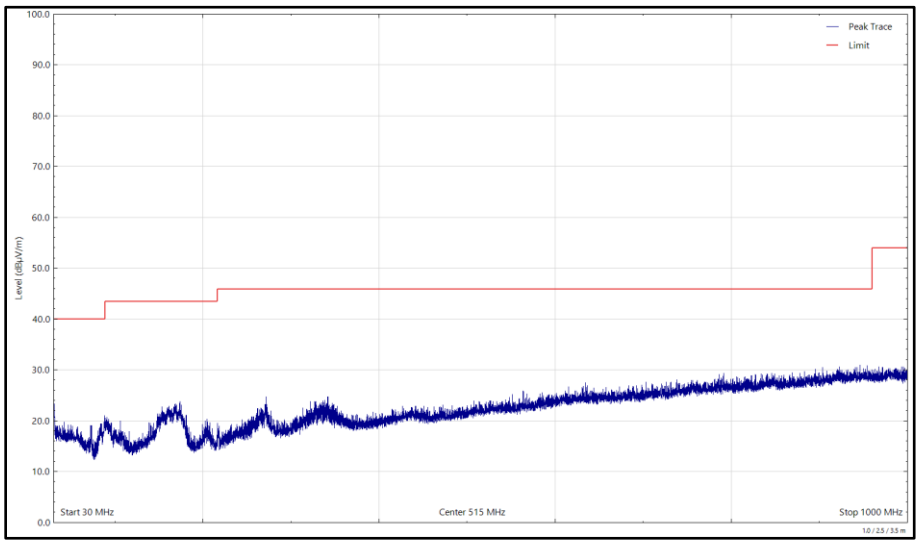

Figure 239 - 5788 MHz, DH5, iPA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

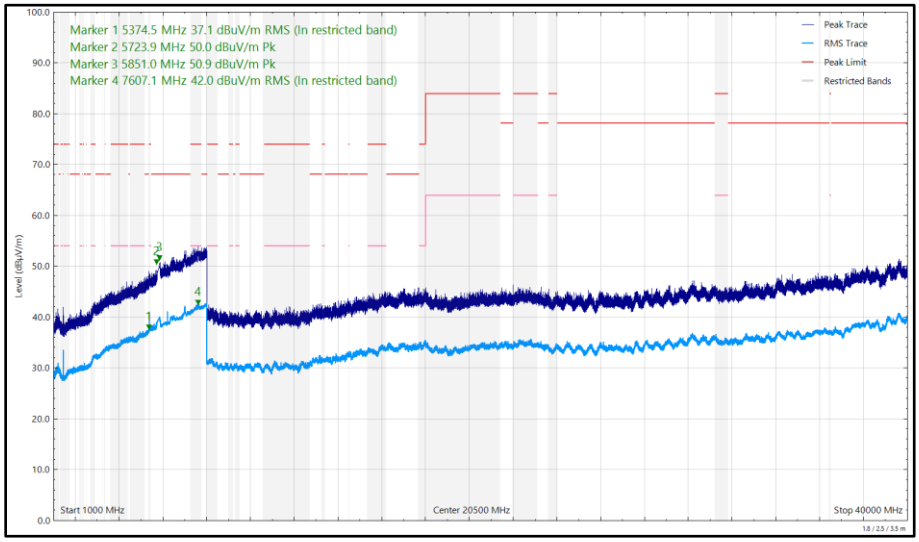

Figure 240 - 5788 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5426.510	38.24	54.00	-15.76	RMS	0	235	Vertical
5426.535	42.13	54.00	-11.87	RMS	190	266	Horizontal
5708.374	50.16	68.20	-18.04	Peak	150	280	Vertical
5715.577	49.77	68.20	-18.43	Peak	330	398	Horizontal
5865.031	51.32	68.20	-16.88	Peak	117	358	Vertical
5865.046	51.86	68.20	-16.34	Peak	12	335	Horizontal

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.

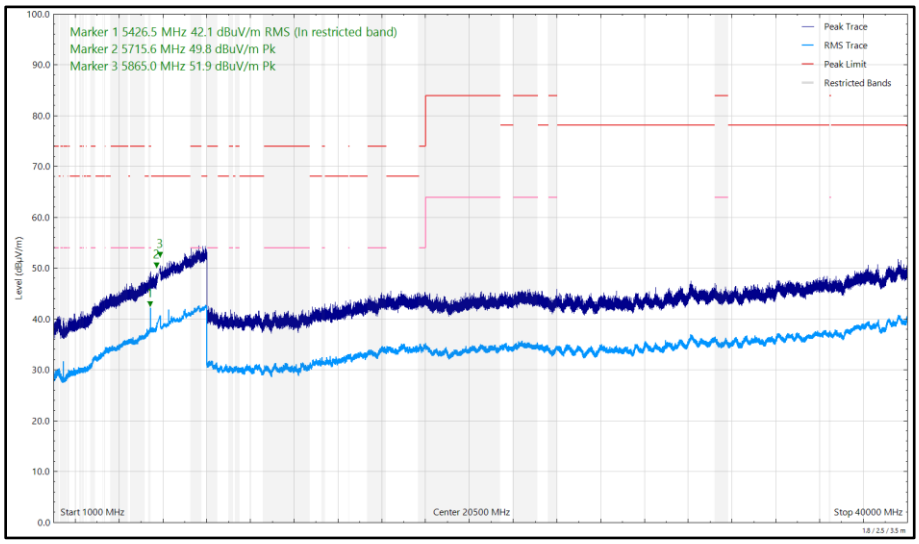

Figure 241 - 5844 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

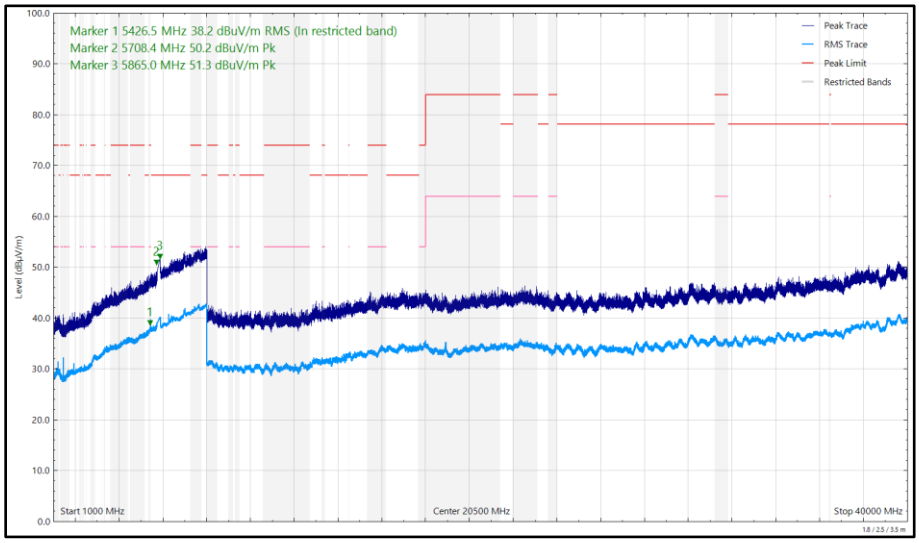

Figure 242 - 5844 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5083.399	37.53	54.00	-16.47	RMS	162	260	Horizontal
5119.828	37.86	54.00	-16.14	RMS	350	215	Vertical
5402.234	38.79	54.00	-15.21	RMS	25	227	Vertical
5457.380	38.98	54.00	-15.02	RMS	181	166	Horizontal
5486.611	51.02	68.20	-17.18	Peak	350	142	Vertical
5490.576	51.11	68.20	-17.09	Peak	206	322	Horizontal
7608.440	42.92	54.00	-11.08	RMS	27	183	Horizontal
7610.010	42.94	54.00	-11.06	RMS	185	270	Vertical

Table 115 - 5162 MHz, HDR4, ePA, Core 0 + Core 1, 1 GHz to 40 GHz

No other emissions found within 10 dB of the limit.

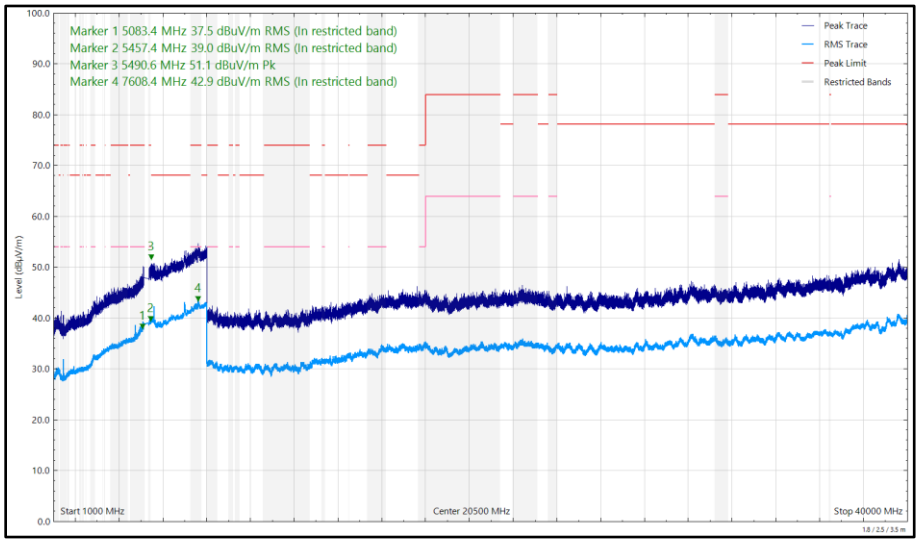

Figure 243 - 5162 MHz, HDR4, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

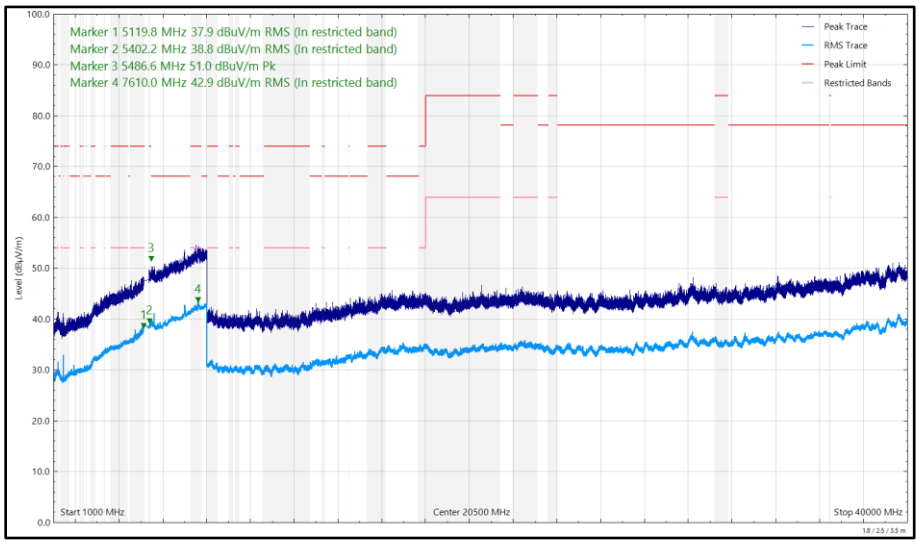

Figure 244 - 5162 MHz, HDR4, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5102.218	37.68	54.00	-16.32	RMS	21	205	Vertical
5147.564	37.96	54.00	-16.04	RMS	171	293	Horizontal
5442.629	38.68	54.00	-15.32	RMS	173	105	Horizontal
5443.250	38.05	54.00	-15.95	RMS	356	117	Vertical
5497.454	50.37	68.20	-17.83	Peak	139	113	Vertical
5503.453	51.44	68.20	-16.76	Peak	189	191	Horizontal
7607.325	55.66	74.00	-18.34	Peak	18	206	Vertical
7608.815	42.91	54.00	-11.09	RMS	332	110	Horizontal
7610.265	42.95	54.00	-11.05	RMS	79	145	Vertical

Table 116 - 5203 MHz, HDR4, ePA, Core 0 + Core 1, 30 MHz to 40 GHz

No other emissions found within 10 dB of the limit.

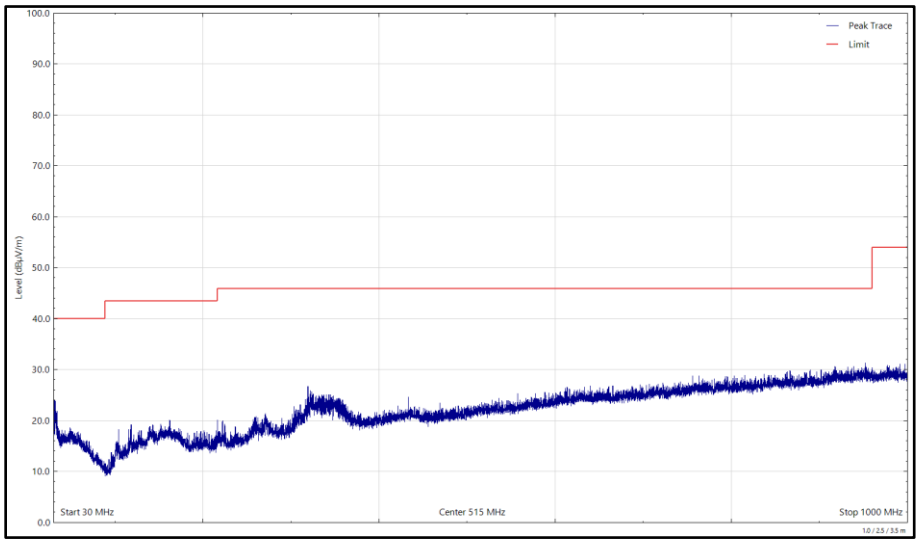

Figure 245 - 5203 MHz, HDR4, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

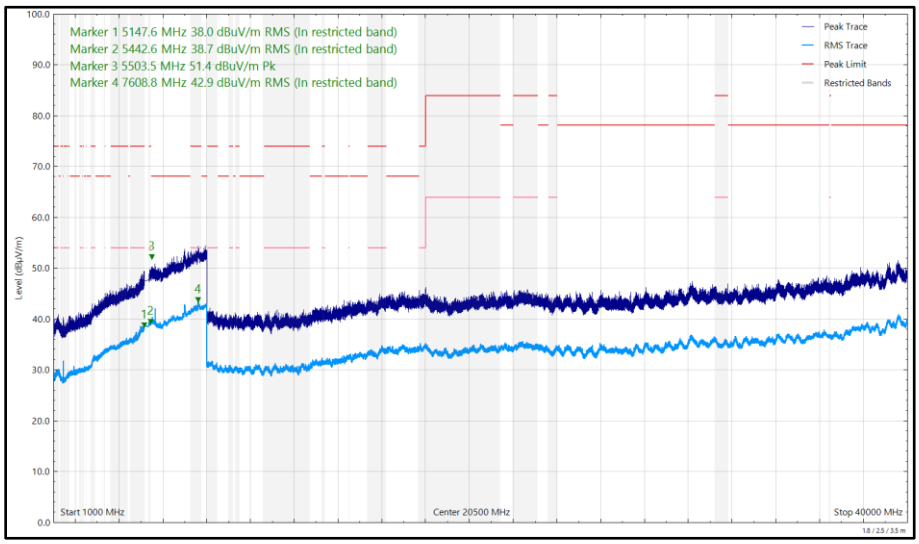

Figure 246 - 5203 MHz, HDR4, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

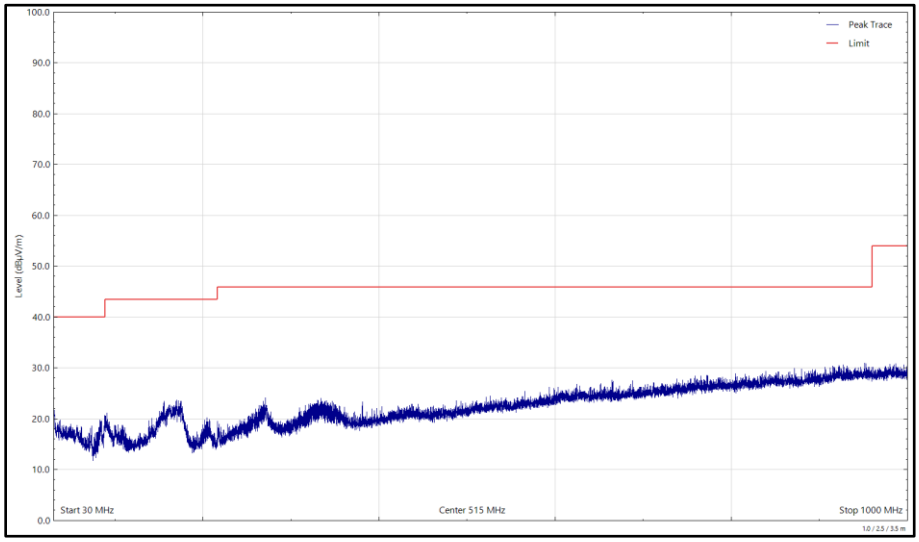

Figure 247 - 5203 MHz, HDR4, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

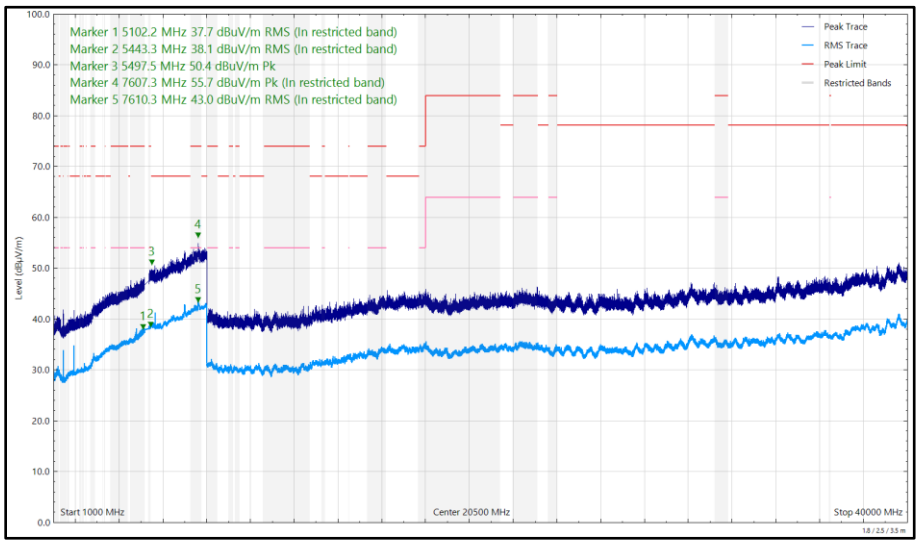

Figure 248 - 5203 MHz, HDR4, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5124.811	38.42	54.00	-15.58	RMS	189	239	Horizontal
5125.104	36.74	54.00	-17.26	RMS	10	291	Vertical
5375.993	37.22	54.00	-16.78	RMS	4	395	Vertical
5394.141	38.98	54.00	-15.02	RMS	193	192	Horizontal
5478.592	50.82	68.20	-17.38	Peak	177	268	Horizontal
5519.083	50.47	68.20	-17.73	Peak	201	221	Vertical
6984.496	54.46	68.20	-13.74	Peak	195	258	Vertical
7608.775	42.94	54.00	-11.06	RMS	0	127	Vertical
7610.025	42.98	54.00	-11.02	RMS	252	152	Horizontal

Table 117 - 5245 MHz, HDR4, ePA, Core 0 + Core 1, 1 GHz to 40 GHz

No other emissions found within 10 dB of the limit.

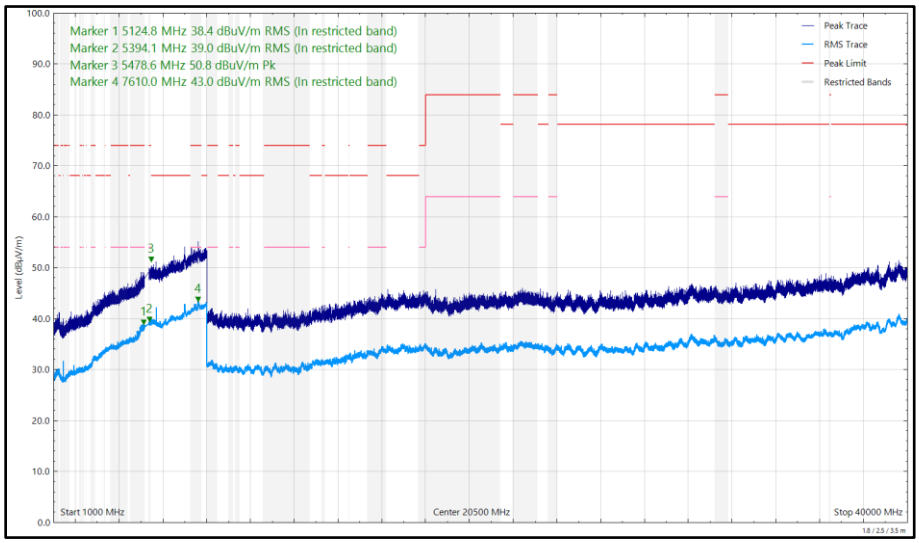

Figure 249 - 5245 MHz, HDR4, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

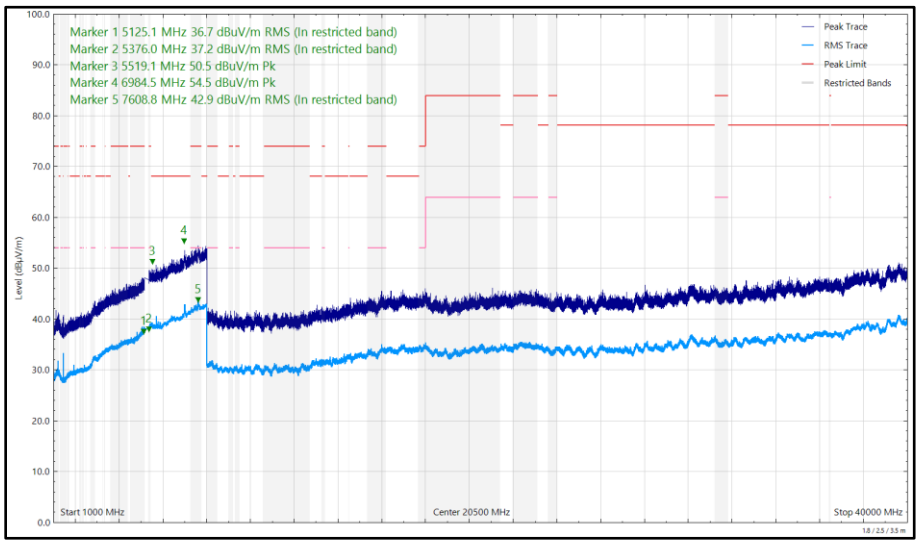

Figure 250 - 5245 MHz, HDR4, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5323.315	52.40	68.20	-15.80	Peak	21	165	Vertical
5323.410	54.17	68.20	-14.03	Peak	181	153	Horizontal
5394.783	39.08	54.00	-14.92	RMS	182	128	Horizontal
5416.418	37.91	54.00	-16.09	RMS	7	206	Vertical
5850.509	51.50	68.20	-16.70	Peak	69	320	Horizontal
5854.116	51.03	68.20	-17.17	Peak	207	139	Vertical
7604.900	42.13	54.00	-11.87	RMS	354	177	Horizontal
7606.101	42.11	54.00	-11.89	RMS	144	390	Vertical

Table 118 - 5733 MHz, HDR4, ePA, Core 0 + Core 1, 1 GHz to 40 GHz

No other emissions found within 10 dB of the limit.

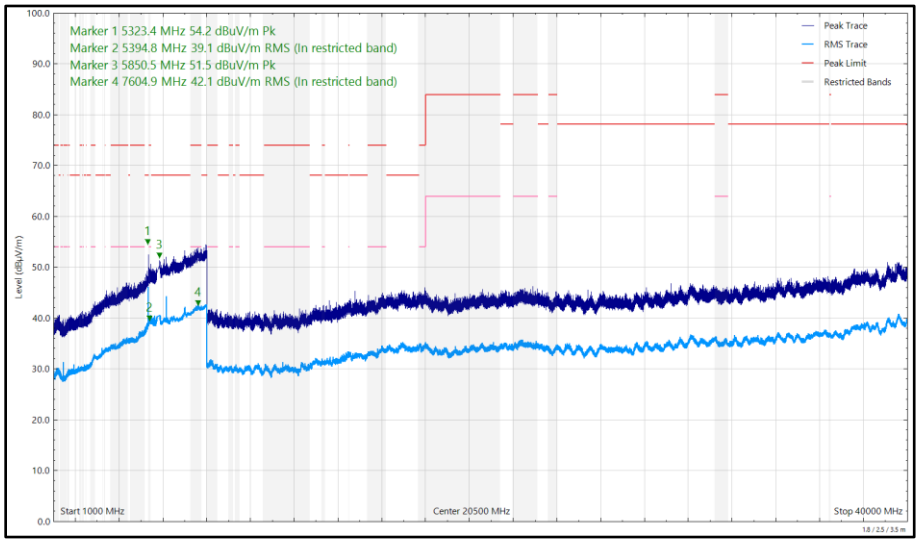

Figure 251 - 5733 MHz, HDR4, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

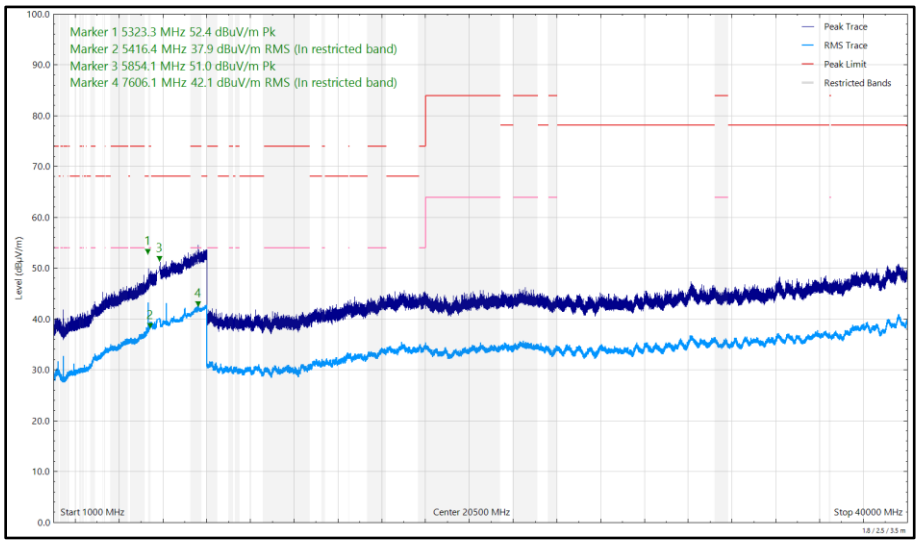

Figure 252 - 5733 MHz, HDR4, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
4961.190	37.17	54.00	-16.83	RMS	223	312	Horizontal
5374.545	45.24	54.00	-8.76	RMS	183	123	Horizontal
5374.570	43.13	54.00	-10.87	RMS	24	142	Vertical
5503.485	52.03	68.20	-16.17	Peak	190	224	Horizontal
5718.672	50.63	68.20	-17.57	Peak	360	111	Vertical
5868.613	51.50	68.20	-16.70	Peak	197	152	Vertical
5869.284	51.33	68.20	-16.87	Peak	0	177	Horizontal
7605.175	42.17	54.00	-11.83	RMS	359	168	Vertical
7606.140	42.11	54.00	-11.89	RMS	9	110	Horizontal

Table 119 - 5788 MHz, HDR4, ePA, Core 0 + Core 1, 30 MHz to 40 GHz

No other emissions found within 10 dB of the limit.

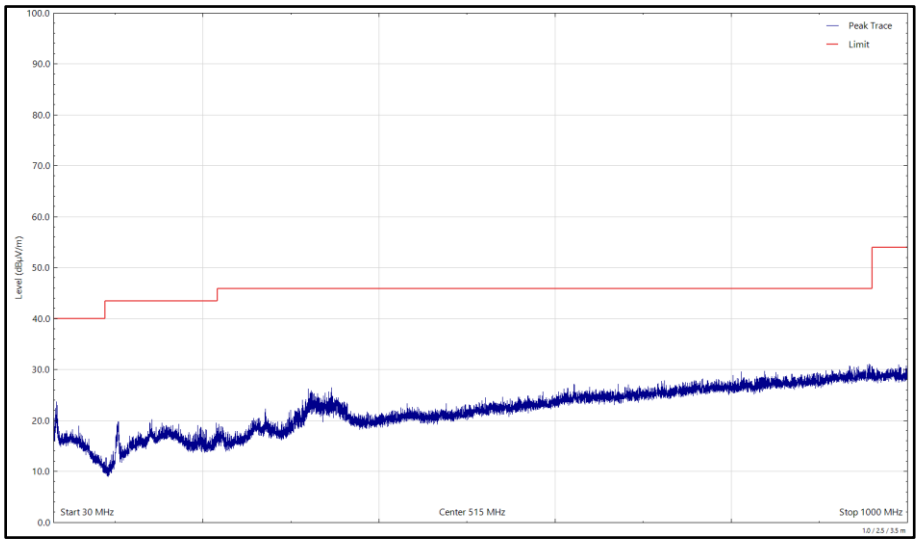

Figure 253 - 5788 MHz, HDR4, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

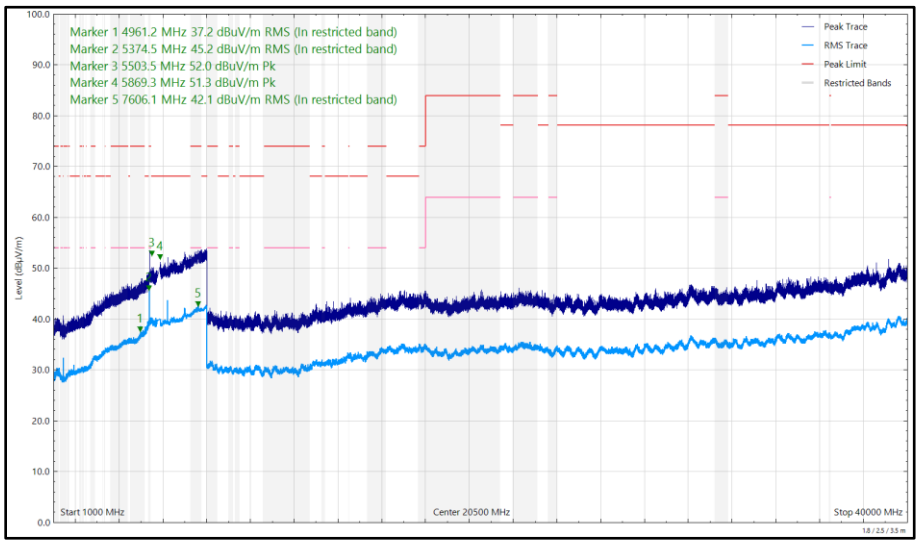

Figure 254 - 5788 MHz, HDR4, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

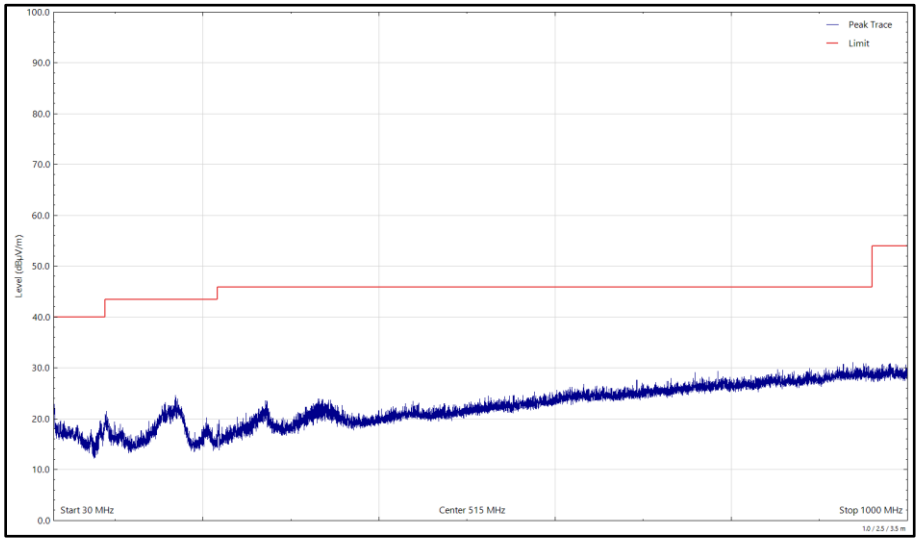

Figure 255 - 5788 MHz, HDR4, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

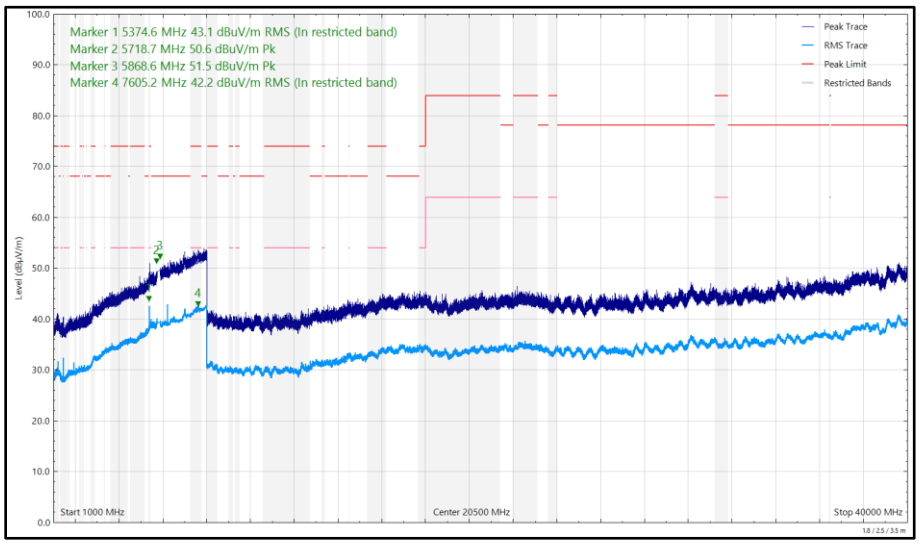

Figure 256 - 5788 MHz, HDR4, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5009.090	38.81	54.00	-15.19	RMS	204	135	Horizontal
5426.540	44.34	54.00	-9.66	RMS	27	162	Vertical
5426.600	46.63	54.00	-7.37	RMS	205	115	Horizontal
5493.196	50.94	68.20	-17.26	Peak	175	280	Horizontal
5724.858	50.79	68.20	-17.41	Peak	354	265	Vertical
5866.778	52.33	68.20	-15.87	Peak	185	325	Horizontal
5867.886	51.52	68.20	-16.68	Peak	45	381	Vertical

Table 120 - 5844 MHz, HDR4, ePA, Core 0 + Core 1, 1 GHz to 40 GHz

No other emissions found within 10 dB of the limit.

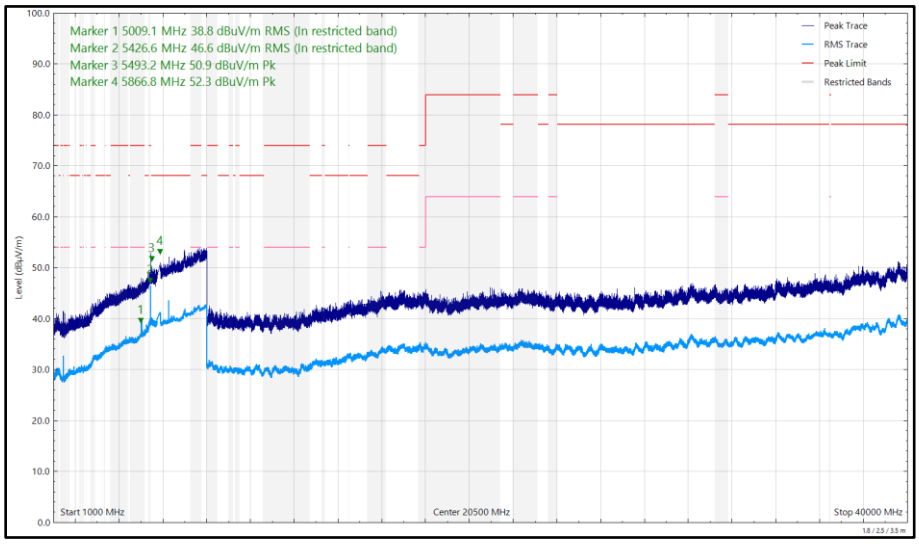

Figure 257 - 5844 MHz, HDR4, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

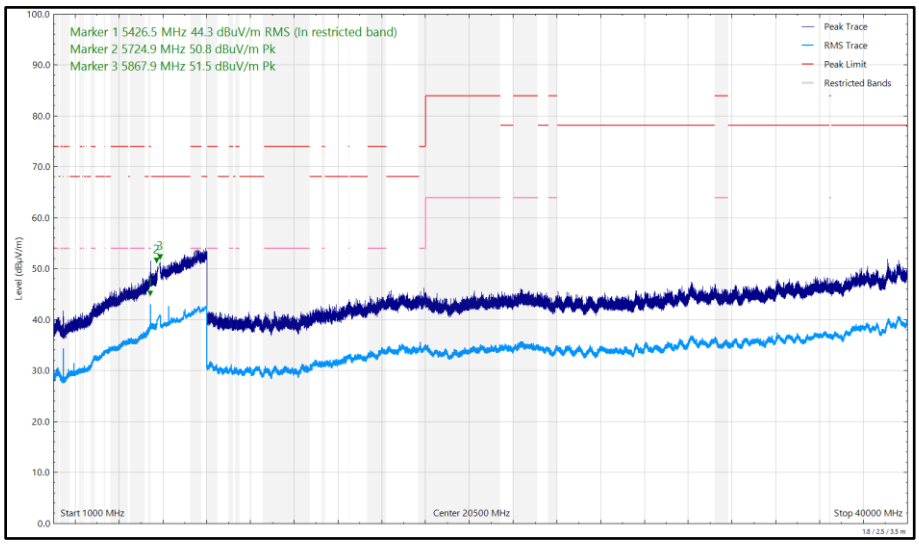

Figure 258 - 5844 MHz, HDR4, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

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 5.725-5.85 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:

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)#

2.6.8 Test Location and Test Equipment Used

This test was carried out in RF Chamber 18.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
Thermocouple Data Logger	Pico Technology Ltd	TC-08	3783	12	26-Jun-2024
Emissions Software	TUV SUD	EmX V3.2.0	5125	-	Software
DRG Horn Antenna (7.5-18GHz)	Schwarzbeck	HWRD750	5939	12	05-May-2025
Cable (N to N 1m)	Junkosha	MWX221-01000AMSAMS/B	6009	12	20-May-2025
Horn Antenna (1-10 GHz)	Schwarzbeck	BBHA9120B	6140	12	05-May-2025
Horn Antenna (1-10 GHz)	Schwarzbeck	BBHA9120B	6141	12	05-May-2025
SAC Switch Unit	TUV SUD	TUV_SSU_001	6144	12	11-Dec-2024
Digital Multimeter	Fluke	115	6146	12	15-Jun-2024*
Digital Multimeter	Fluke	115	6146	12	06-Jun-2025*
Attenuator 4dB	Pasternack	PE7074-4	6201	24	24-May-2026
Cable (SMA to SMA 8m)	Junkosha	MWX221-08000AMSAMS/B	6318	12	18-Feb-2025
Cable (SMA to SMA 8m)	Junkosha	MWX221-08000AMSAMS/B	6319	12	04-Feb-2025
EMC Test Receiver	Rohde & Schwarz	ESW44	6333	12	16-Feb-2025
8 GHz High Pass Filter	Wainwright	WHKX 7150 8000 18000 50SS	6427	12	23-Apr-2025
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9168	6456	24	10-Feb-2025
Horn Antenna	Schwarzbeck	BBHA 9120 B	6457	12	05-May-2025
Humidity and Temperature Meter	R.S Components	1364	6149	12	07-Jul-2024
3m Semi-Anechoic Chamber Chamber18	Albatross Projects	Chamber 18	6597	24	22-Feb-2026
Coax cable sma to sma with N-Type adapter	TUV SUD	N/A	6637	12	24-Jul-2024
1m Cable	Junkosha	MWX241-01000AMSAMS/B	6741	12	01-Feb-2025
2m Cable	Junkosha	MWX241-02000KMSKMS/B	6742	12	01-Feb-2025
Double Ridge Active Horn Antenna (18-40 GHz	Com-Power	AHA-840	6771	24	17-Jan-2025
Pre Amp 8 - 18 GHz	Wright Technologies	APS06-0061	6783	12	23-Apr-2025
Mast & Turntable Controller	Maturo Gmbh	FCU3.0	6795	-	TU
Tilt Antenna Mast	Maturo Gmbh	BAM4.5-P	6796	-	TU
Turntable	Maturo Gmbh	TT1.5SI	6797	-	TU
AC Programmable Power Supply	iTech	IT7324	6812	-	O/P Mon

Table 123

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

NOTE: *Only used within calibration period.

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	± 45.99 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.