

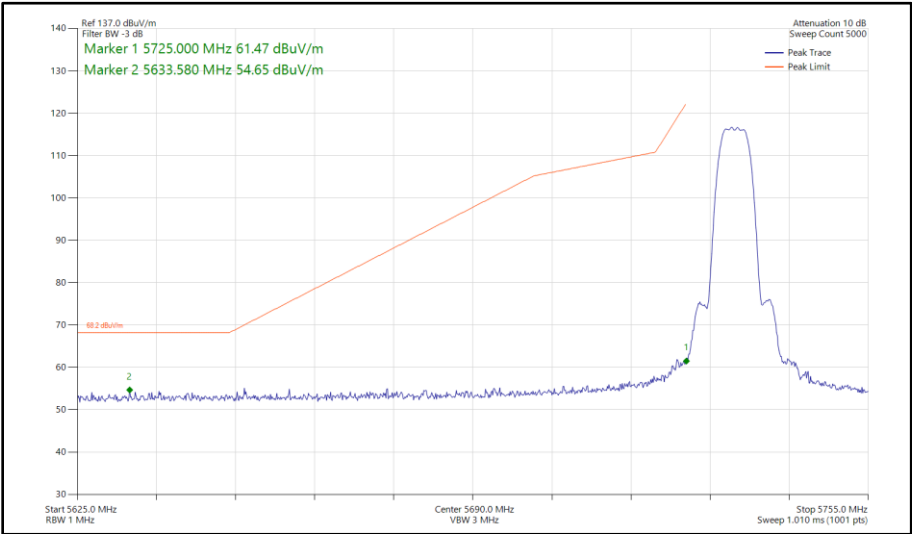


Figure 211 - Bluetooth HDR8, SISO, Core 1 - 5733 MHz
Band Edge Frequency 5725 MHz

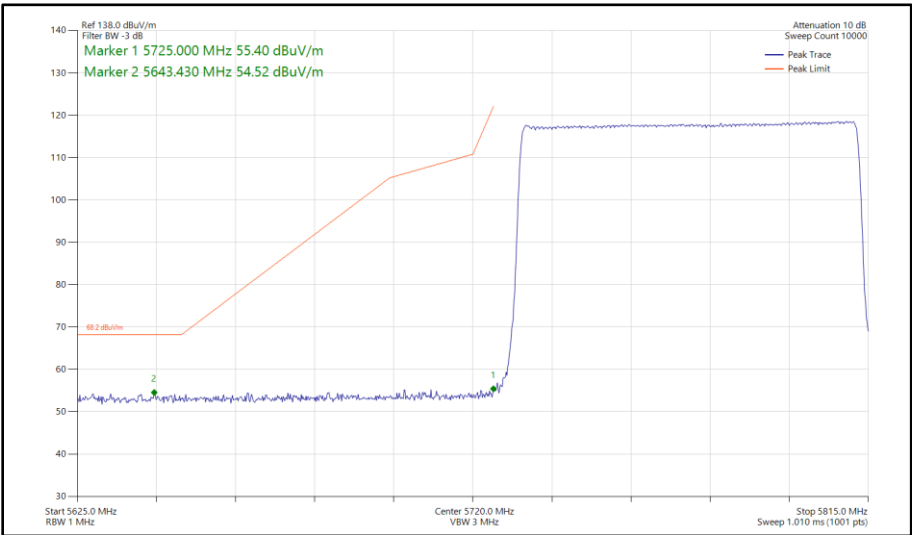


Figure 212 - Bluetooth HDR4, SISO, Core 1 - 5733-5811 MHz
Band Edge Frequency 5725 MHz

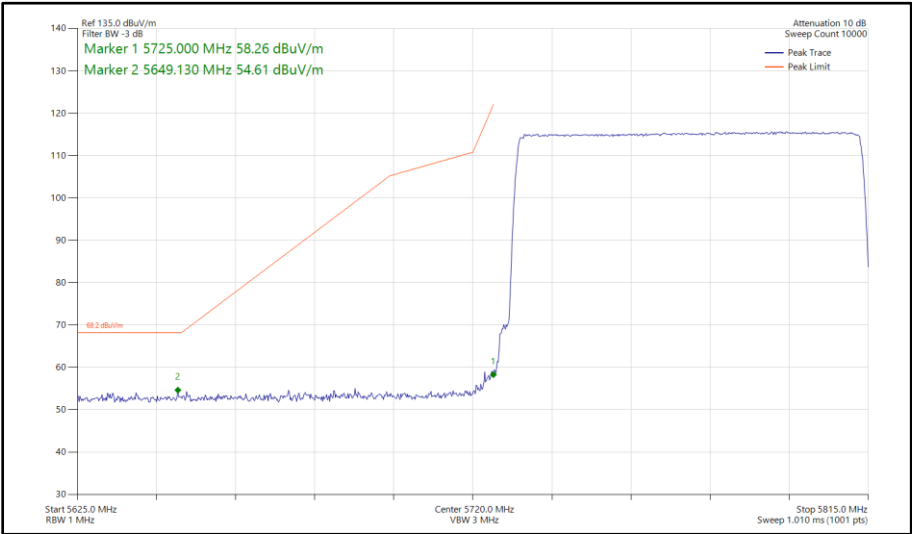


Figure 213 - Bluetooth HDR8, SISO, Core 1 - 5733-5811 MHz
Band Edge Frequency 5725 MHz

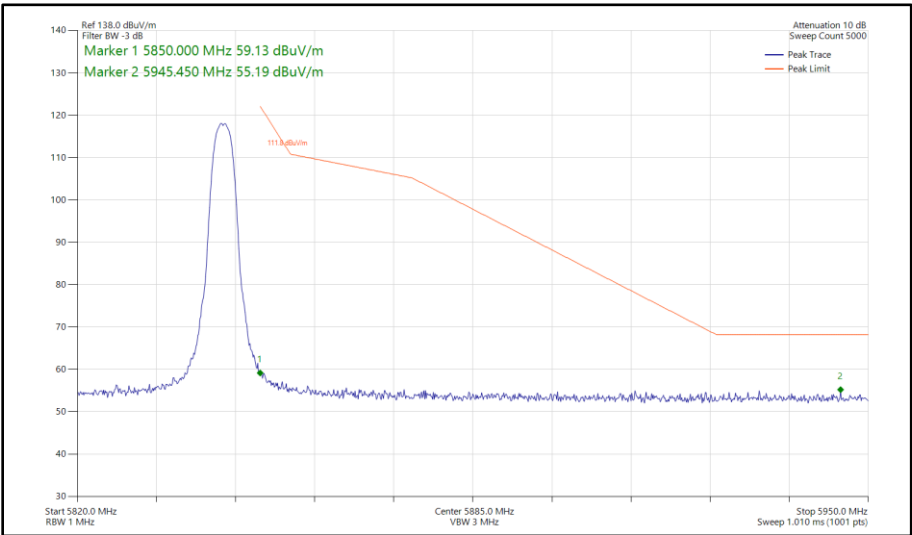


Figure 214 - Bluetooth HDR4, SISO, Core 1 - 5844 MHz
Band Edge Frequency 5850 MHz

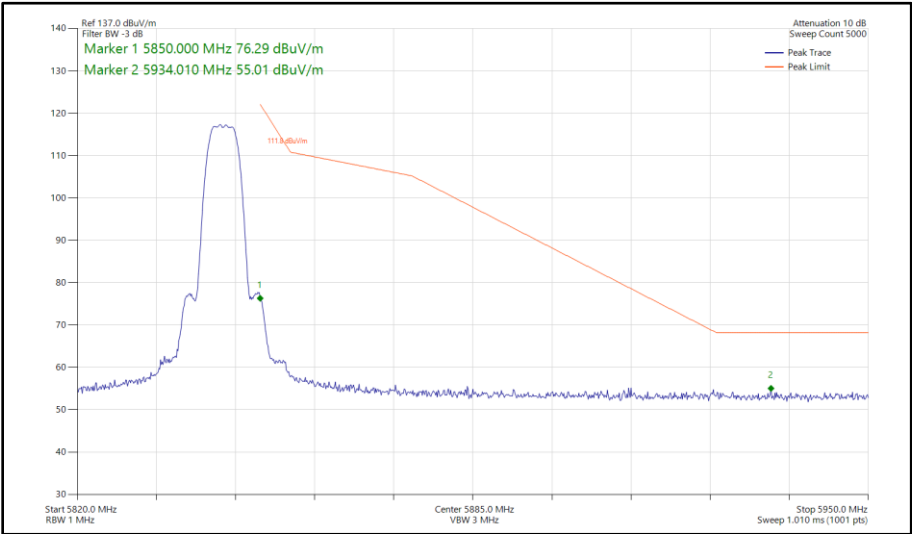


Figure 215 - Bluetooth HDR8, SISO, Core 1 - 5844 MHz
Band Edge Frequency 5850 MHz

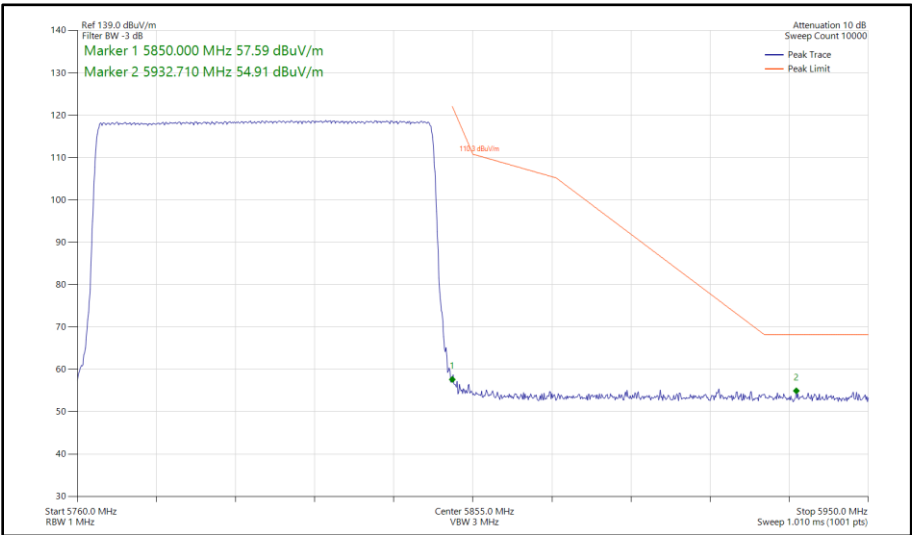


Figure 216 - Bluetooth HDR4, SISO, Core 1 - 5766-5844 MHz
Band Edge Frequency 5850 MHz

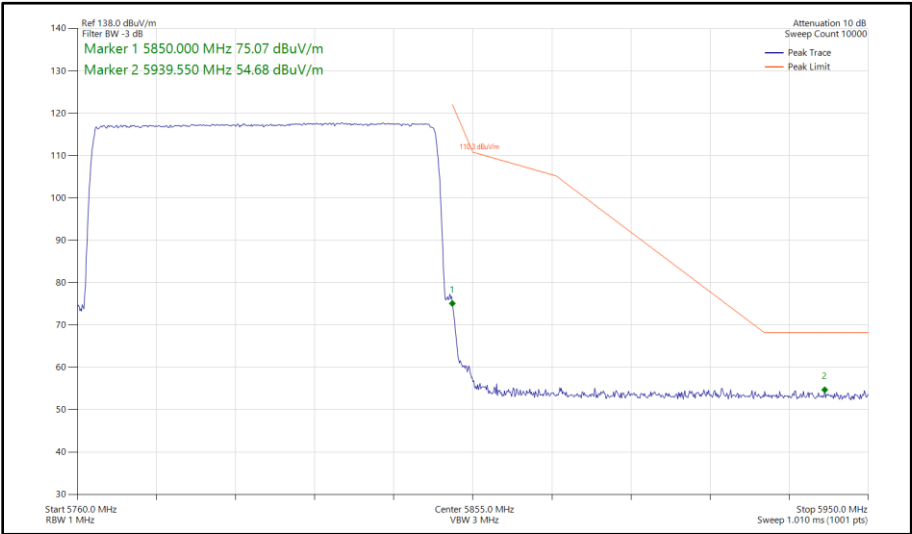


**Figure 217 - Bluetooth HDR8, SISO, Core 1 - 5766-5844 MHz
Band Edge Frequency 5850 MHz**

ePA - Core 0 - Core 1 (MIMO)

Mode	Packet Type	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBμV/m)
Static	HDR4	5733	5725	54.73
Static	HDR8	5733	5725	54.70
Hopping	HDR4	5733-5811	5725	54.81
Hopping	HDR8	5733-5811	5725	54.62
Static	HDR4	5844	5850	55.30
Static	HDR8	5844	5850	55.35
Hopping	HDR4	5766-5844	5850	54.23
Static	HDR8	5766-5844	5850	54.71

Table 107 - MIMO Authorised Band Edge Results

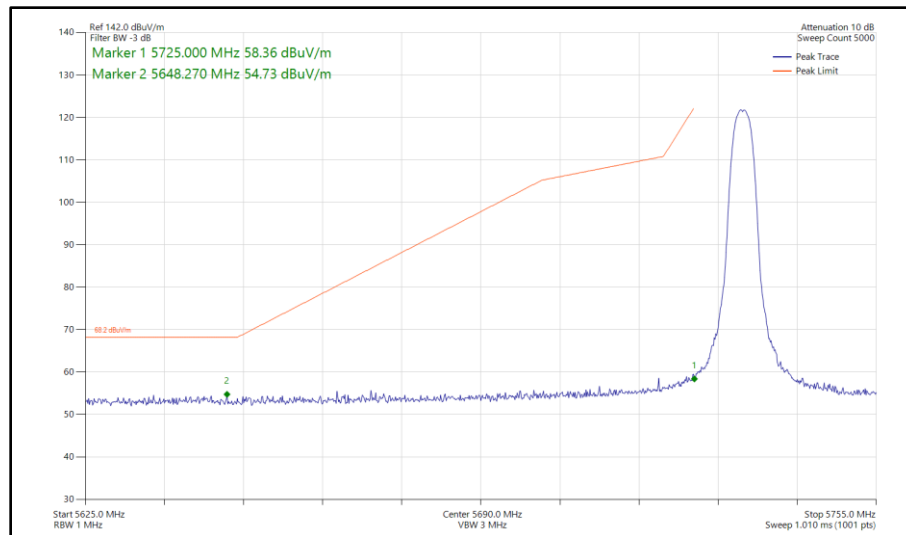


**Figure 218 - Bluetooth HDR4, MIMO, Core 0 - Core 1 - 5733 MHz
Band Edge Frequency 5725 MHz**

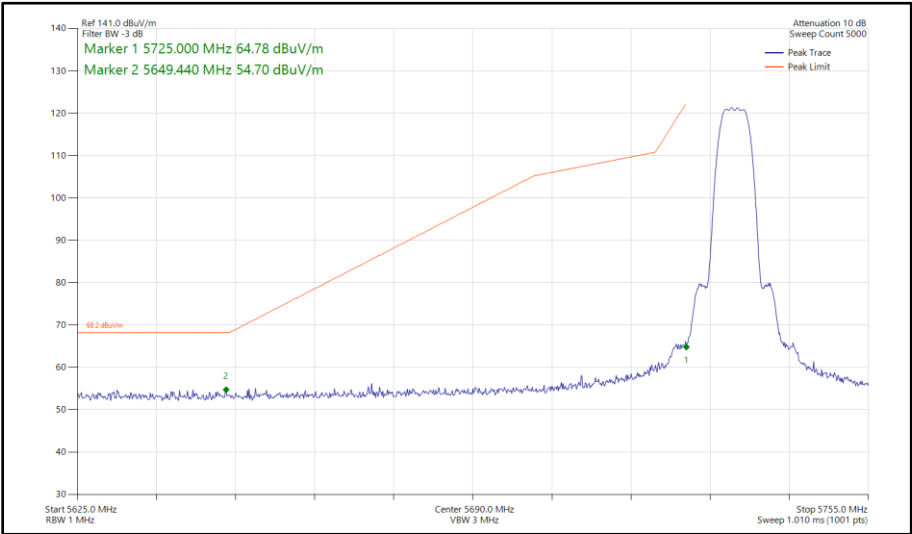


Figure 219 - Bluetooth HDR8, MIMO, Core 0 - Core 1 - 5733 MHz
Band Edge Frequency 5725 MHz

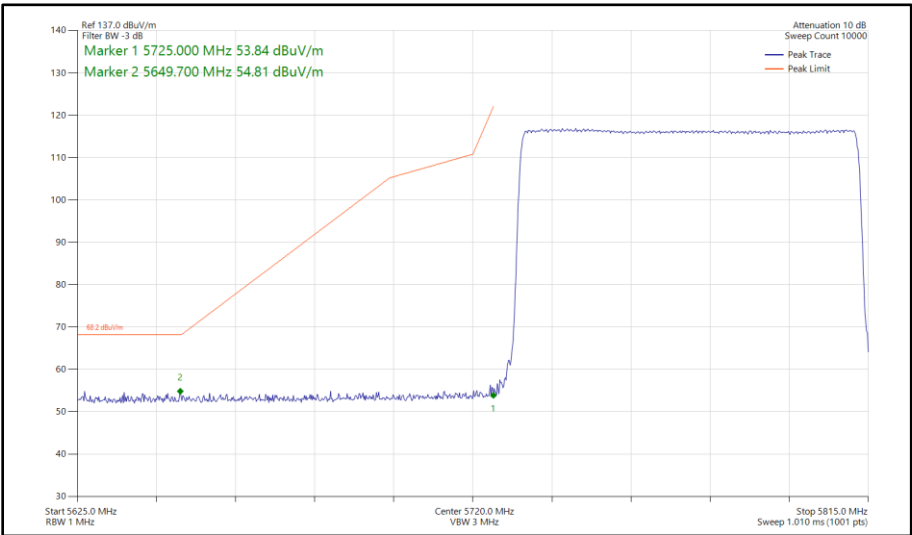


Figure 220 - Bluetooth HDR4, MIMO, Core 0 - Core 1 - 5733-5811 MHz
Band Edge Frequency 5725 MHz

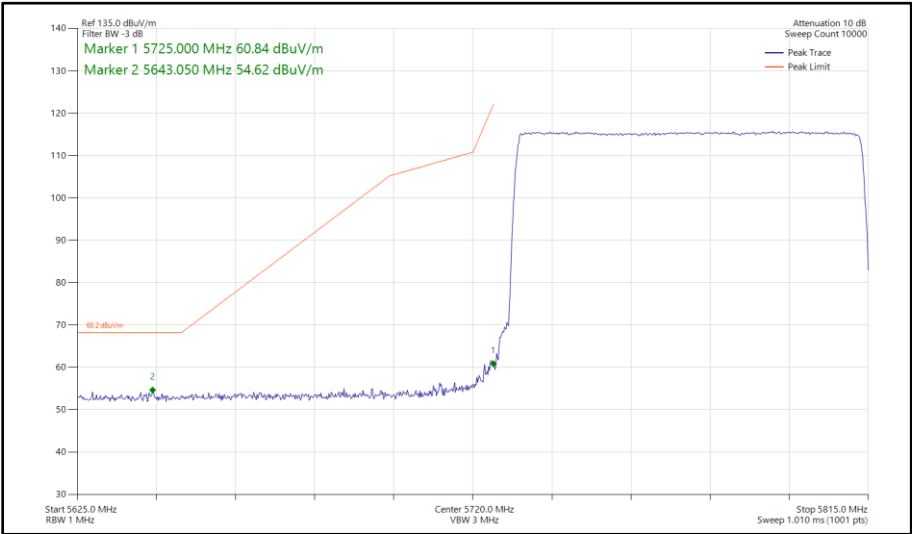


Figure 221 - Bluetooth HDR8, MIMO, Core 0 - Core 1 - 5733-5811 MHz
Band Edge Frequency 5725 MHz

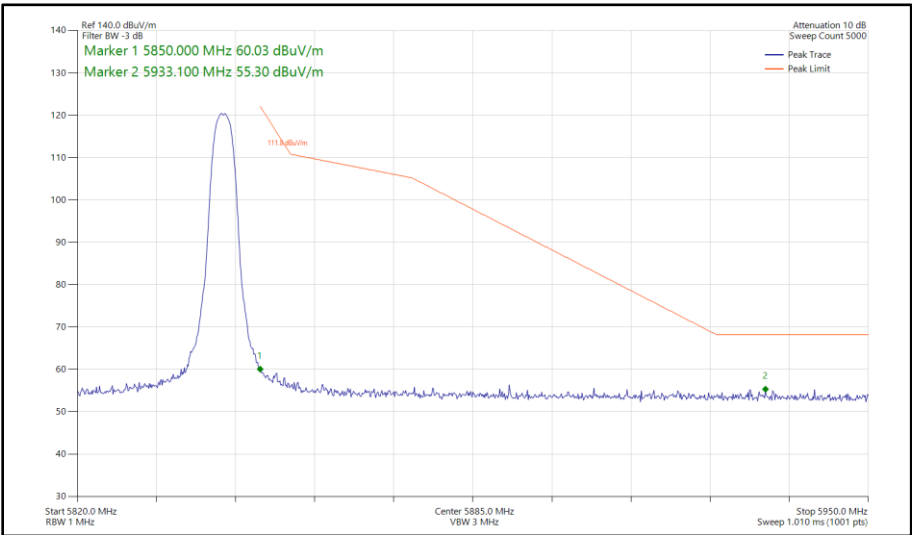


Figure 222 - Bluetooth HDR4, MIMO, Core 0 - Core 1 - 5844 MHz
Band Edge Frequency 5850 MHz

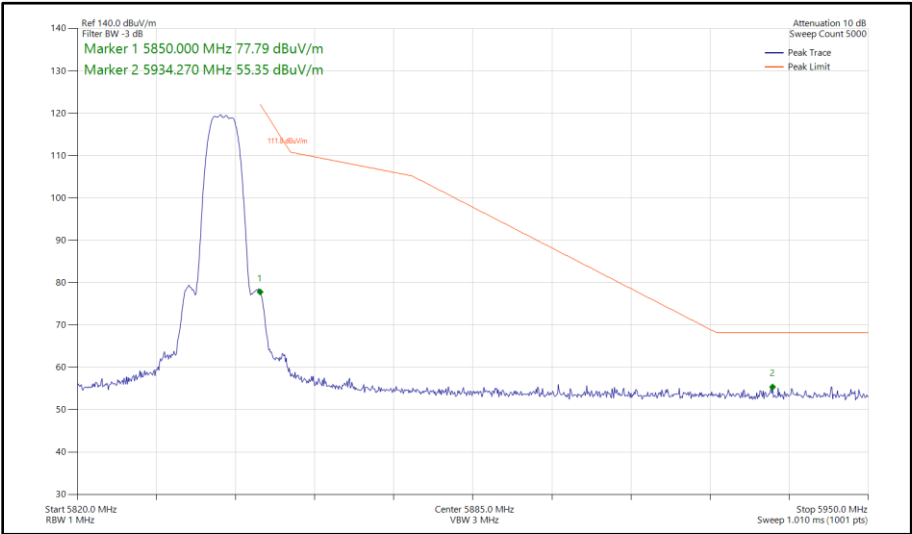


Figure 223 - Bluetooth HDR8, MIMO, Core 0 - Core 1 - 5844 MHz
Band Edge Frequency 5850 MHz

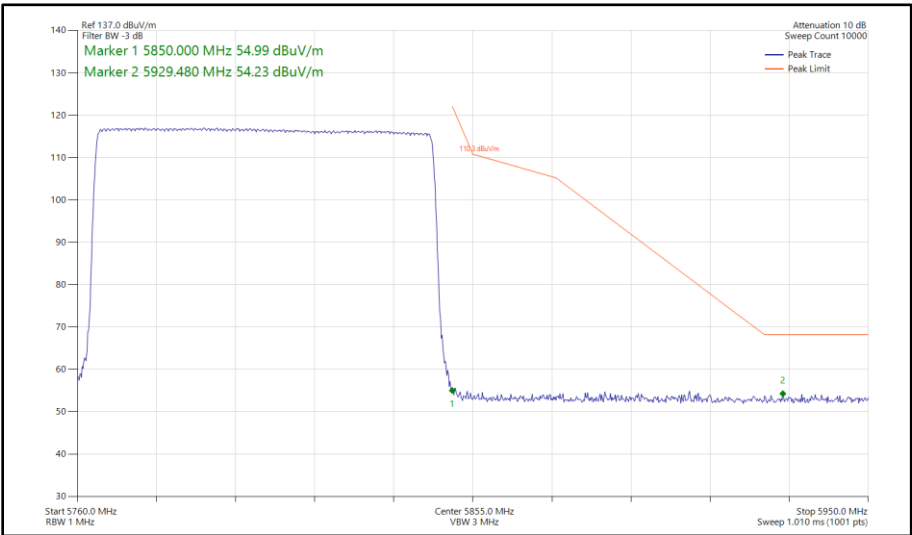


Figure 224 - Bluetooth HDR4, MIMO, Core 0 - Core 1 - 5766-5844 MHz
Band Edge Frequency 5850 MHz

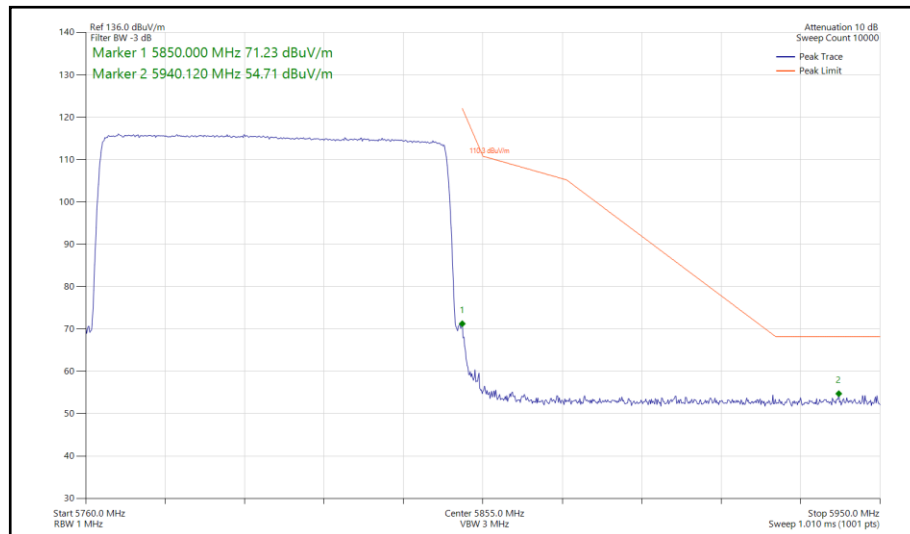


**Figure 225 - Bluetooth HDR8, MIMO, Core 0 - Core 1 - 5766-5844 MHz
Band Edge Frequency 5850 MHz**

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.

2.5.7 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
EMI Test Receiver	Rohde & Schwarz	ESW44	5911	12	11-Sep-2024
Test Receiver	Rohde & Schwarz	ESW44	5914	12	24-May-2025
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



Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
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 (SMA to SMA 1m)	Junkosha	MWX221-01000AMSAMS/A	5997	12	14-Sep-2024
Cable (N to N 1m)	Junkosha	MWX221-01000NMSNMS/B	5999	12	20-May-2025
Cable (SMA to SMA 1m)	Junkosha	MWX221-01000AMSAMS/A	6007	12	20-May-2025
Cable (SMA to SMA 6.5m)	Junkosha	MWX221-06500AMSAMS/B	6014	12	24-Aug-2024
Cable (SMA to SMA 1m)	Junkosha	MWX221-01000AMSAMS/A	6018	12	10-Jun-2025
Horn Antenna (1-10 GHz)	Schwarzbeck	BBHA9120B	6141	12	05-May-2025
Horn Antenna (1-10 GHz)	Schwarzbeck	BBHA9120B	6142	12	05-May-2025
Digital Multimeter	Fluke	115	6145	12	06-Jun-2025
Digital Multimeter	Fluke	115	6147	12	06-Jun-2025
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
Cable (SMA to SMA 8m)	Junkosha	MWX221-08000AMSAMS/B	6319	12	04-Feb-2025
Humidity and Temperature meter	R.S Components	1364	6346	12	06-Mar-2025
Humidity and Temperature Meter	R.S Components	1364	6486	12	04-Jun-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

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)

2.6.2 Equipment Under Test and Modification State

A3186, S/N: GQFXQXKN7J - Modification State 0

2.6.3 Date of Test

30-August-2024 to 05-October-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:
 $10^{(\text{Field Strength in dB}\mu\text{V/m}/20)}$

EIRP was converted to field strength at 3m using the following formula:
 $\text{Field Strength (dB}\mu\text{V/m at 3 m)} = \text{EIRP (dBm)} + 95.2 \text{ dB}$



2.6.7 Test Results

Narrowband

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5077.388	36.07	54.00	-17.93	RMS	360	397	Vertical
5374.886	37.01	54.00	-16.99	RMS	7	319	Vertical
5498.074	48.51	68.20	-19.69	Peak	350	245	Vertical
5549.456	48.38	68.20	-19.82	Peak	244	181	Horizontal

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.

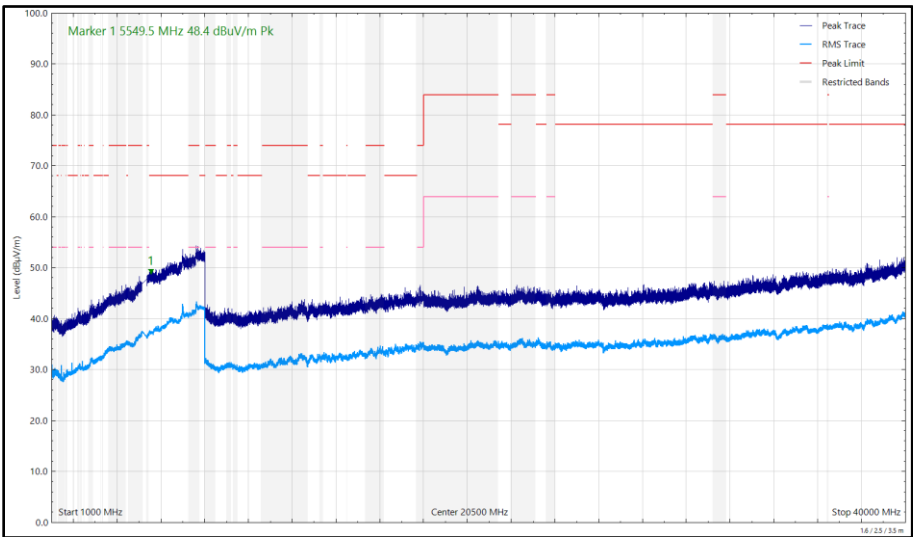


Figure 227 - 5162 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

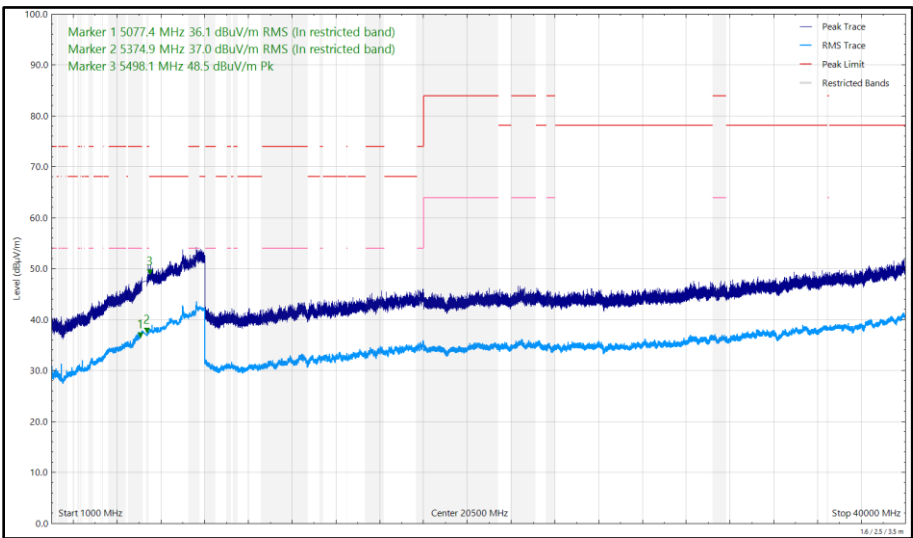


Figure 228 - 5162 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
31.506	24.46	40.00	-15.54	Q-Peak	37	110	Vertical
73.957	21.17	40.00	-18.83	Q-Peak	88	107	Vertical
167.148	18.49	43.50	-25.01	Q-Peak	229	100	Vertical
168.392	19.81	43.50	-23.69	Q-Peak	356	148	Horizontal
375.801	24.78	46.00	-21.22	Q-Peak	226	110	Vertical
5128.838	35.88	54.00	-18.12	RMS	360	100	Vertical
5506.969	48.34	68.20	-19.86	Peak	166	100	Horizontal
5541.256	49.02	68.20	-19.18	Peak	360	370	Vertical

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

No other emissions found within 10 dB of the limit.

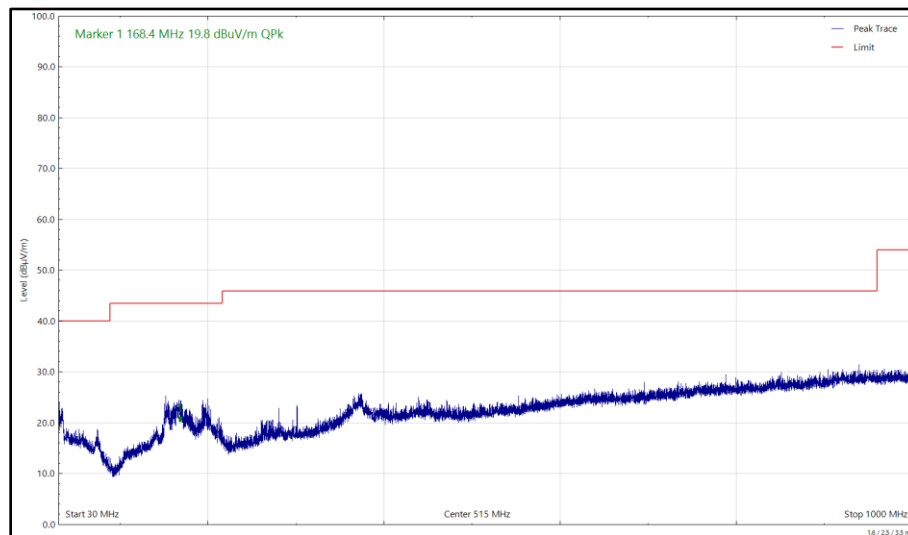


Figure 229 - 5203 MHz, DH5, iPA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

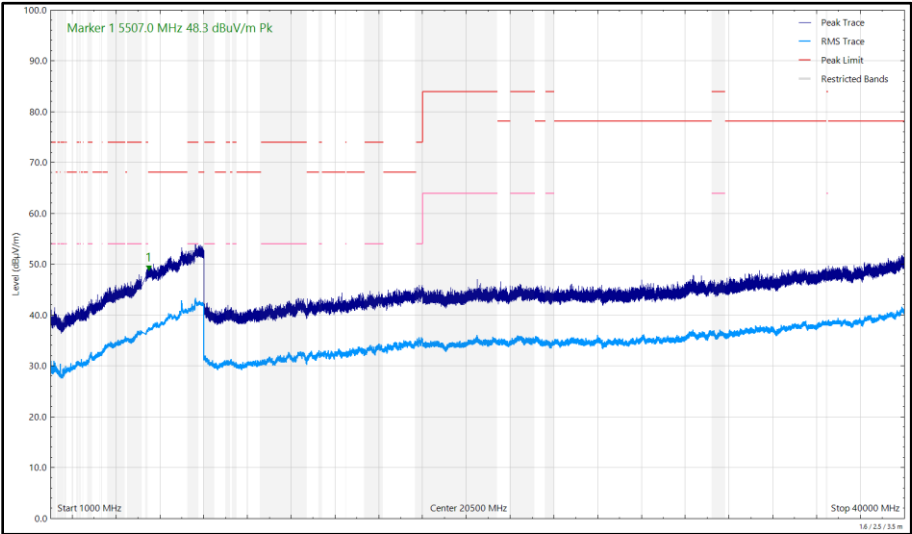


Figure 230 - 5203 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

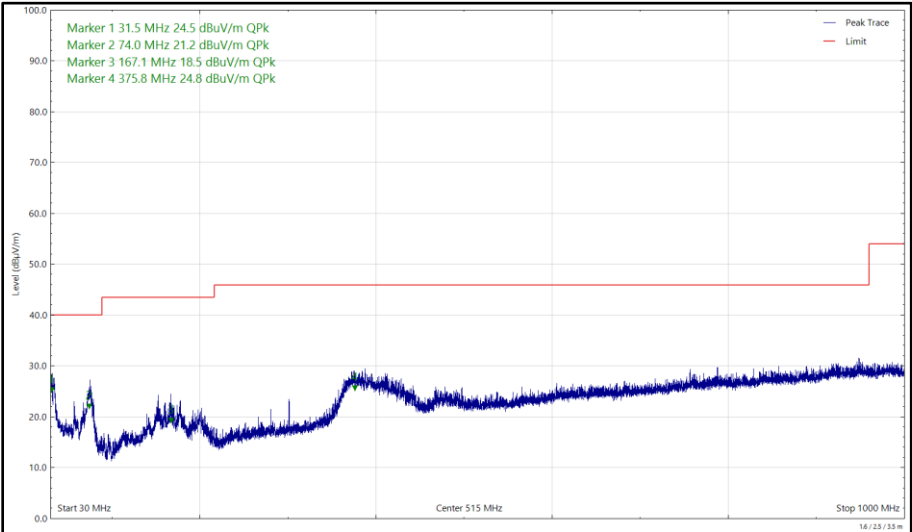


Figure 231 - 5203 MHz, DH5, iPA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

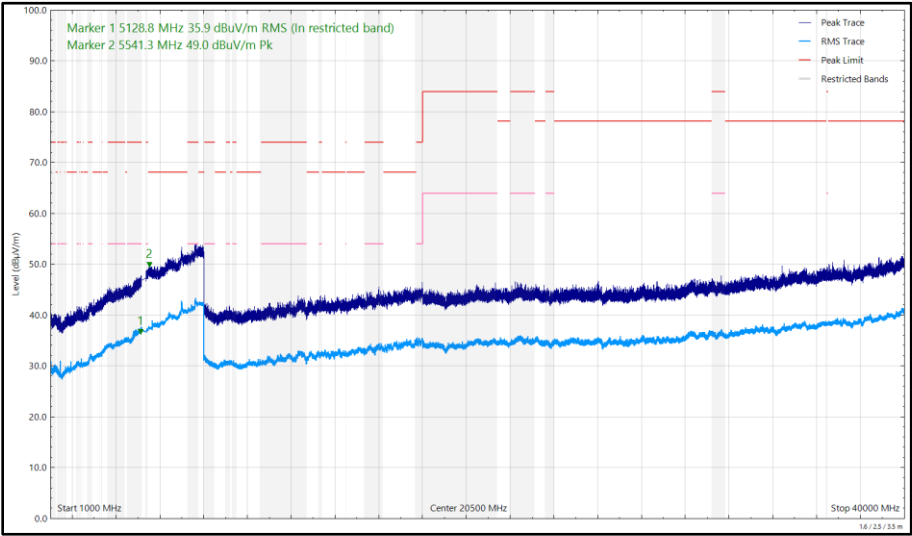


Figure 232 - 5203 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical



Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
4807.925	36.88	54.00	-17.12	RMS	4	260	Vertical
5469.832	48.47	68.20	-19.73	Peak	93	245	Vertical
5474.861	48.38	68.20	-19.82	Peak	2	275	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.

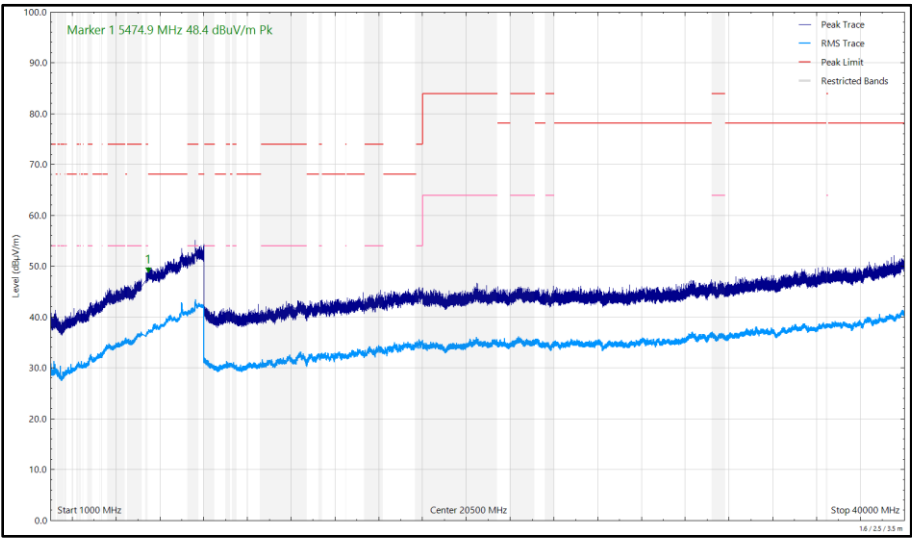


Figure 233 - 5245 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

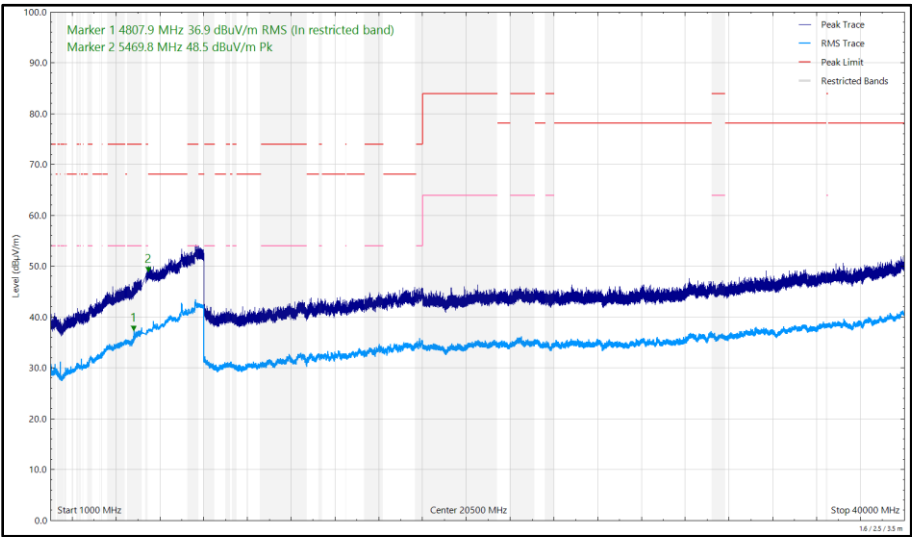


Figure 234 - 5245 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical



Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5705.102	50.47	68.20	-17.73	Peak	10	287	Vertical
5706.771	49.85	68.20	-18.35	Peak	345	137	Horizontal
5856.813	50.36	68.20	-17.84	Peak	0	387	Horizontal

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.

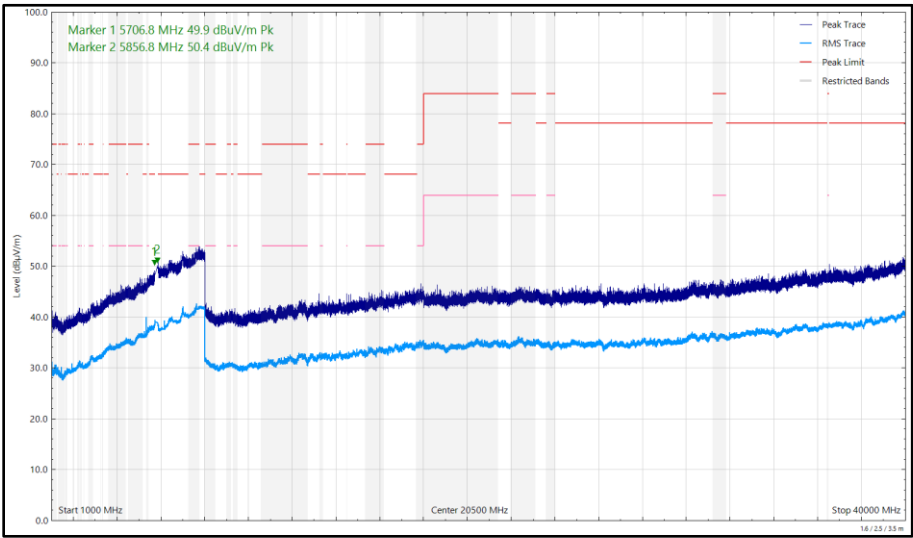


Figure 235 - 5733 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

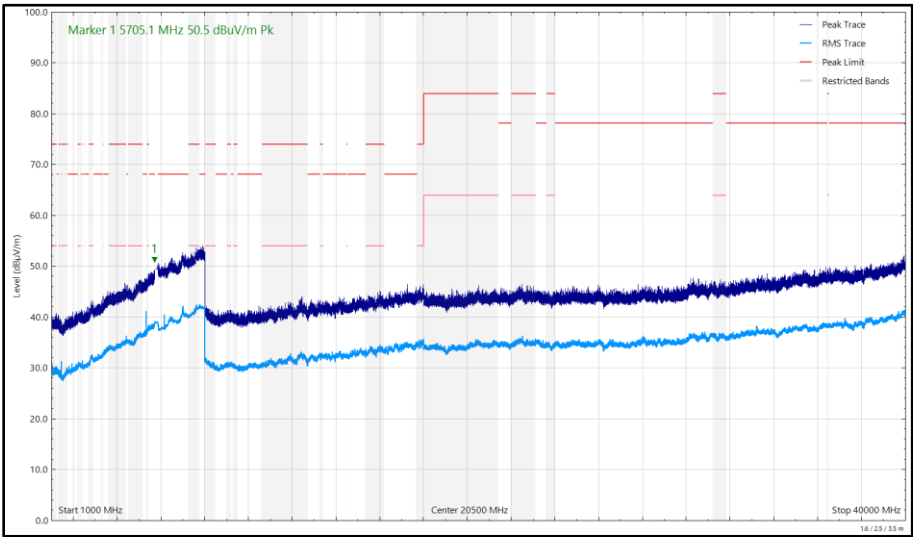


Figure 236 - 5733 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
30.996	24.09	40.00	-15.91	Q-Peak	18	112	Vertical
74.482	22.61	40.00	-17.39	Q-Peak	74	101	Vertical
165.473	17.72	43.50	-25.78	Q-Peak	9	240	Horizontal
165.720	18.18	43.50	-25.32	Q-Peak	252	100	Vertical
376.319	24.83	46.00	-21.17	Q-Peak	237	106	Vertical
5374.585	43.99	54.00	-10.01	RMS	2	278	Vertical
5374.640	41.45	54.00	-12.55	RMS	76	344	Horizontal
5722.162	50.35	68.20	-17.85	Peak	13	236	Horizontal
5722.250	50.41	68.20	-17.79	Peak	341	275	Vertical
5850.297	50.51	68.20	-17.69	Peak	175	381	Horizontal
5855.574	50.04	68.20	-18.16	Peak	249	286	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.

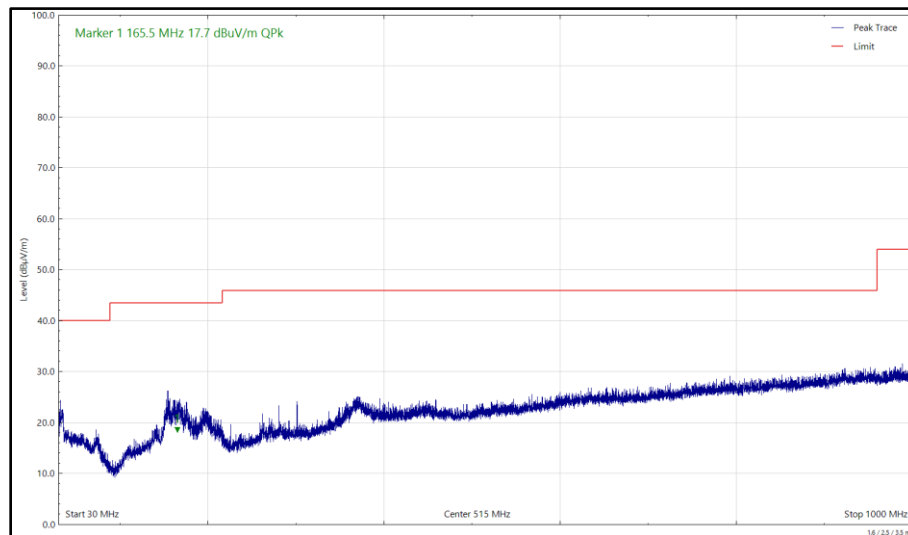


Figure 237 - 5788 MHz, DH5, iPA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

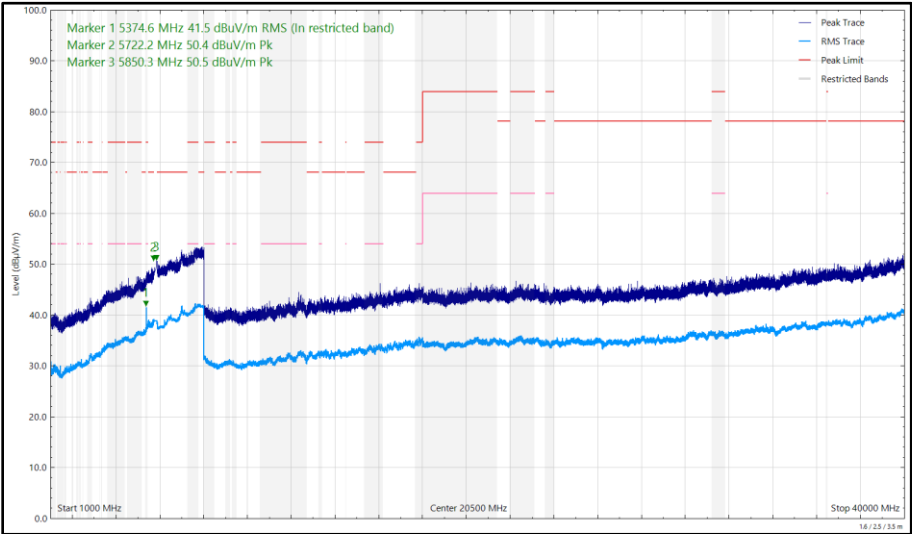


Figure 238 - 5788 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

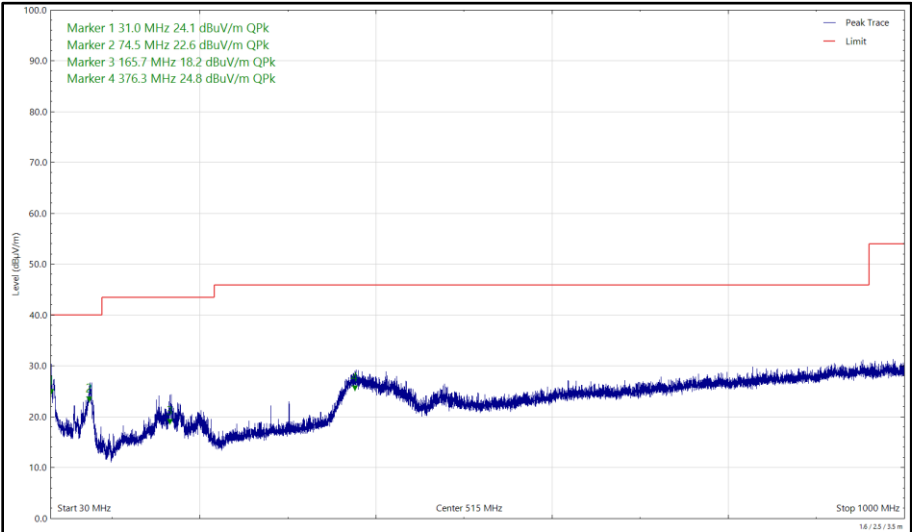


Figure 239 - 5788 MHz, DH5, iPA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

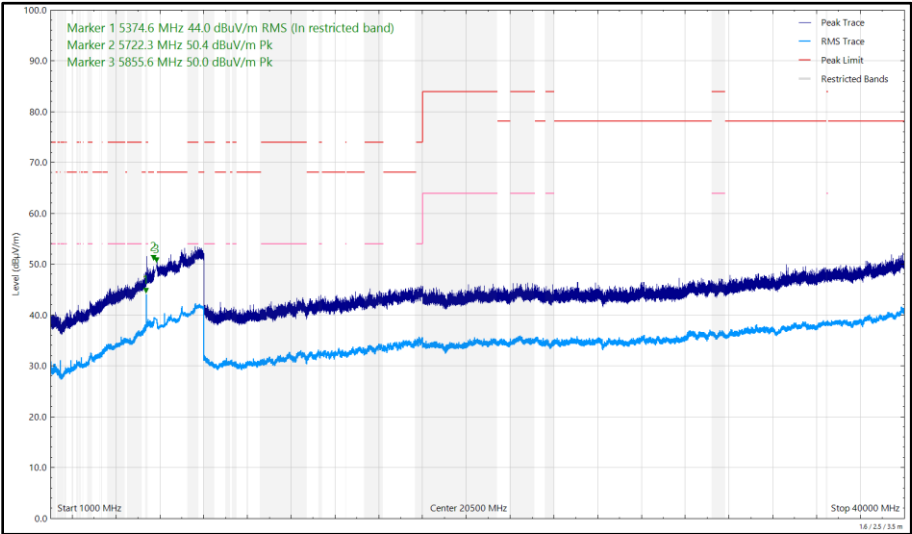


Figure 240 - 5788 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5426.585	45.20	54.00	-8.80	RMS	0	279	Vertical
5426.660	41.90	54.00	-12.10	RMS	79	300	Horizontal
5710.789	50.30	68.20	-17.90	Peak	11	314	Vertical
5720.353	49.88	68.20	-18.32	Peak	151	144	Horizontal
5865.003	50.95	68.20	-17.25	Peak	106	390	Horizontal
5868.602	50.21	68.20	-17.99	Peak	110	105	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.

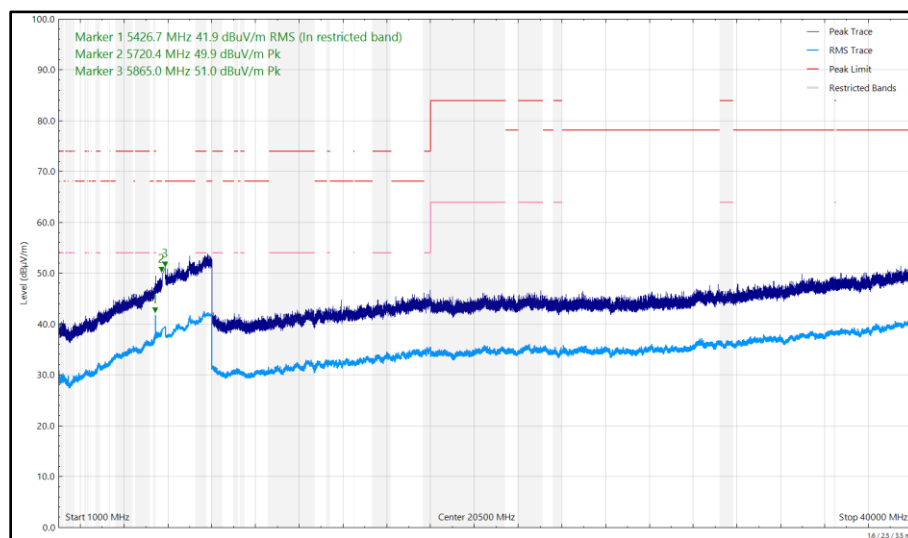


Figure 241 - 5844 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

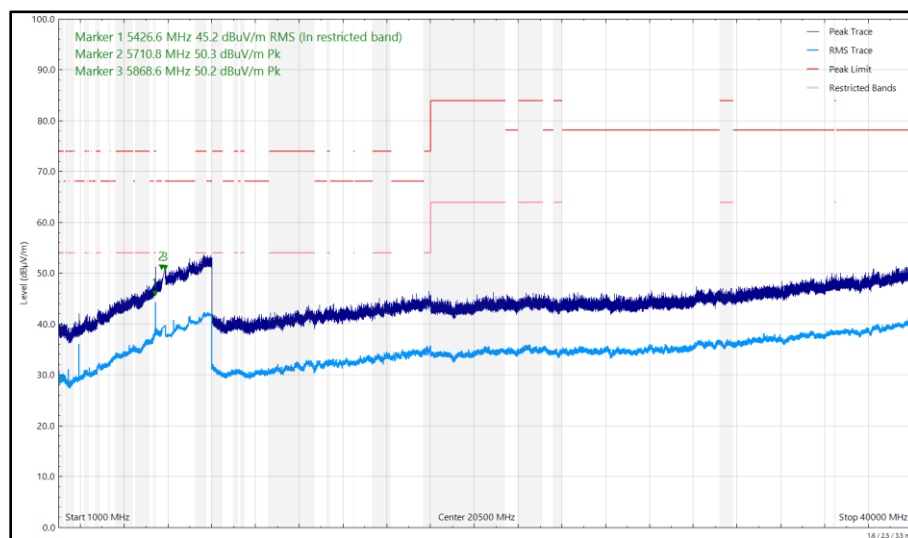


Figure 242 - 5844 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
4731.875	36.53	54.00	-17.47	RMS	7	399	Vertical
5119.880	39.06	54.00	-14.94	RMS	7	303	Vertical
5401.670	40.80	54.00	-13.20	RMS	360	278	Vertical
5473.459	49.32	68.20	-18.88	Peak	66	318	Horizontal
5592.141	51.86	68.20	-16.34	Peak	10	286	Vertical

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.

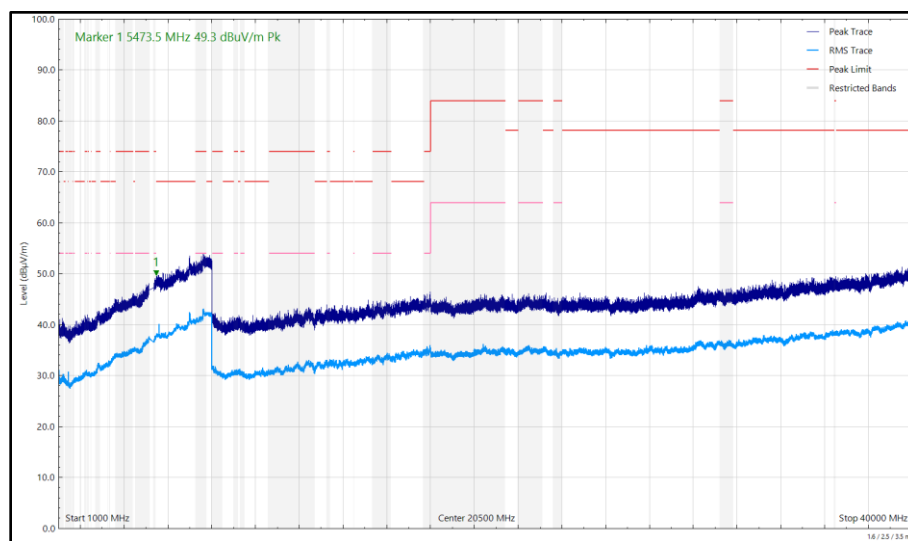


Figure 243 - 5162 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

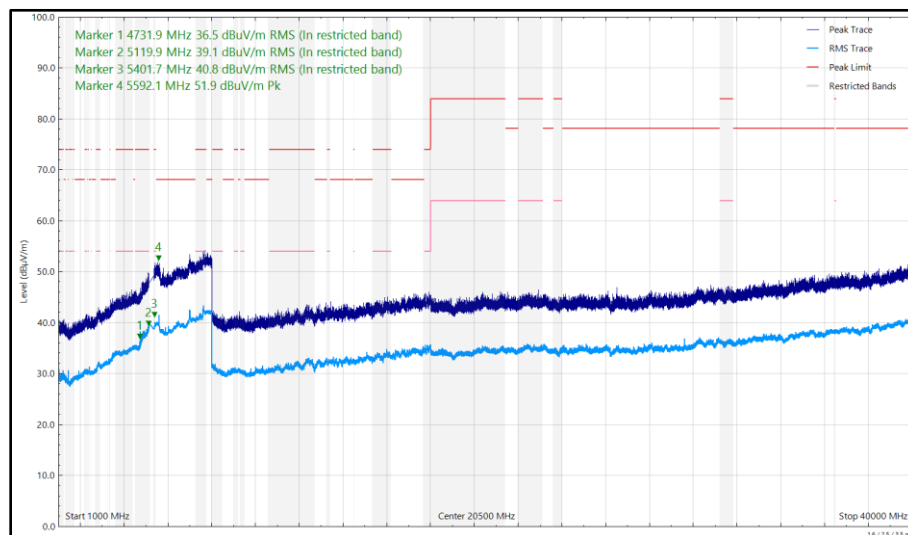


Figure 244 - 5162 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
31.501	24.52	40.00	-15.48	Q-Peak	96	121	Vertical
74.528	22.50	40.00	-17.50	Q-Peak	73	100	Vertical
166.093	17.56	43.50	-25.94	Q-Peak	244	103	Vertical
167.586	18.77	43.50	-24.73	Q-Peak	350	159	Horizontal
382.488	25.02	46.00	-20.98	Q-Peak	225	104	Vertical
4769.410	37.73	54.00	-16.27	RMS	350	345	Vertical
5145.143	38.63	54.00	-15.37	RMS	8	359	Vertical
5403.969	39.76	54.00	-14.24	RMS	360	298	Vertical
5477.158	50.55	68.20	-17.65	Peak	10	290	Vertical
5498.342	49.82	68.20	-18.38	Peak	71	316	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.

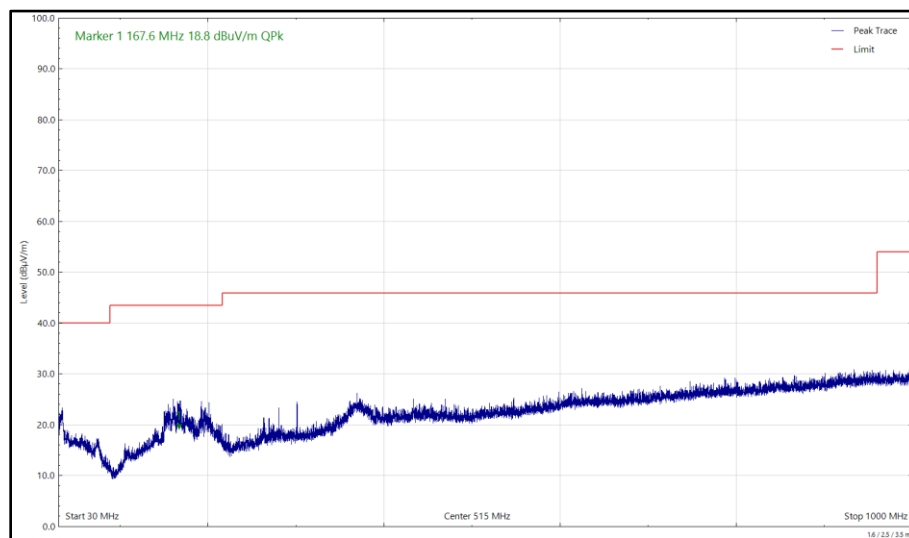


Figure 245 - 5203 MHz, DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

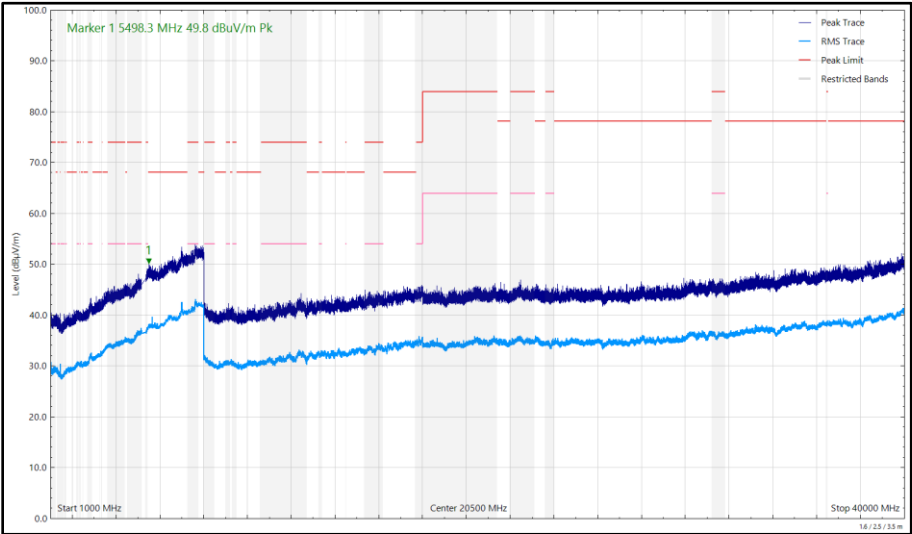


Figure 246 - 5203 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

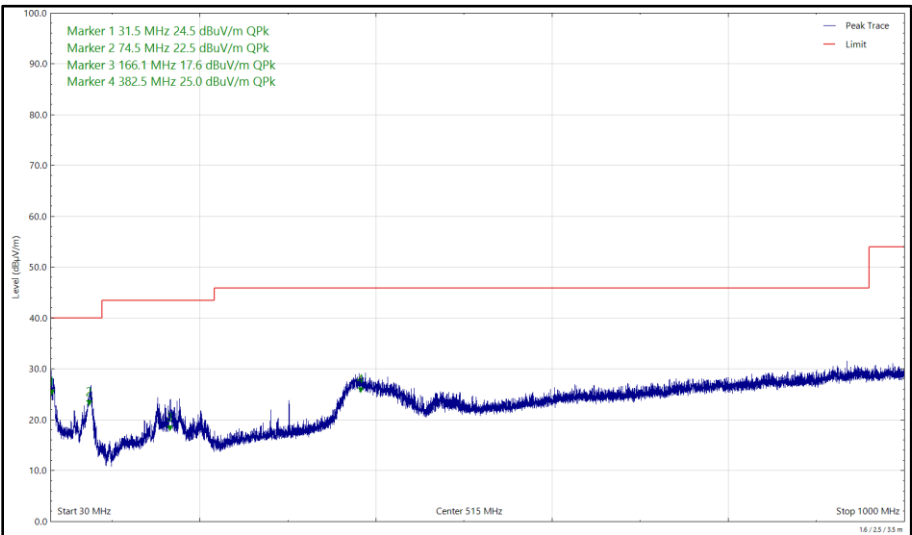


Figure 247 - 5203 MHz, DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

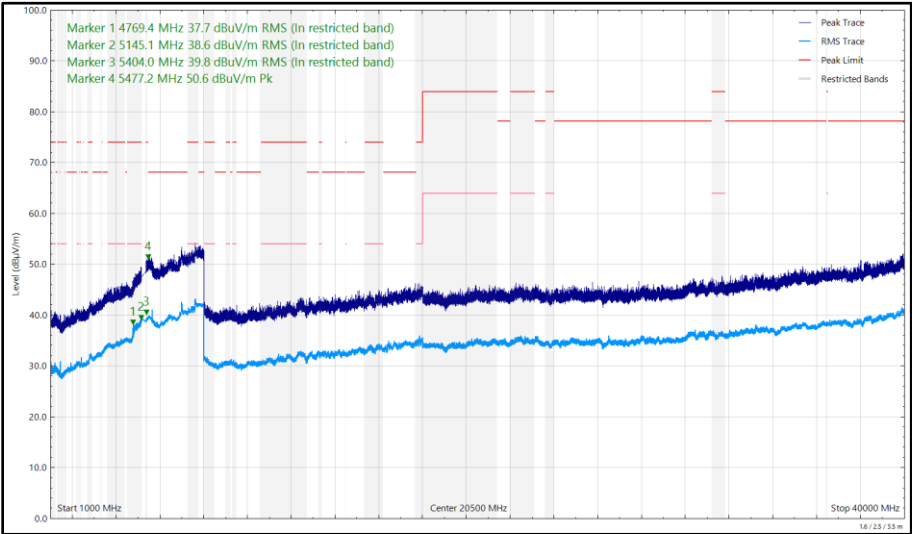


Figure 248 - 5203 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
4807.900	39.94	54.00	-14.06	RMS	12	347	Vertical
5394.396	39.61	54.00	-14.39	RMS	360	274	Vertical
5479.856	50.36	68.20	-17.84	Peak	360	301	Vertical
5521.159	49.56	68.20	-18.64	Peak	74	385	Horizontal

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.

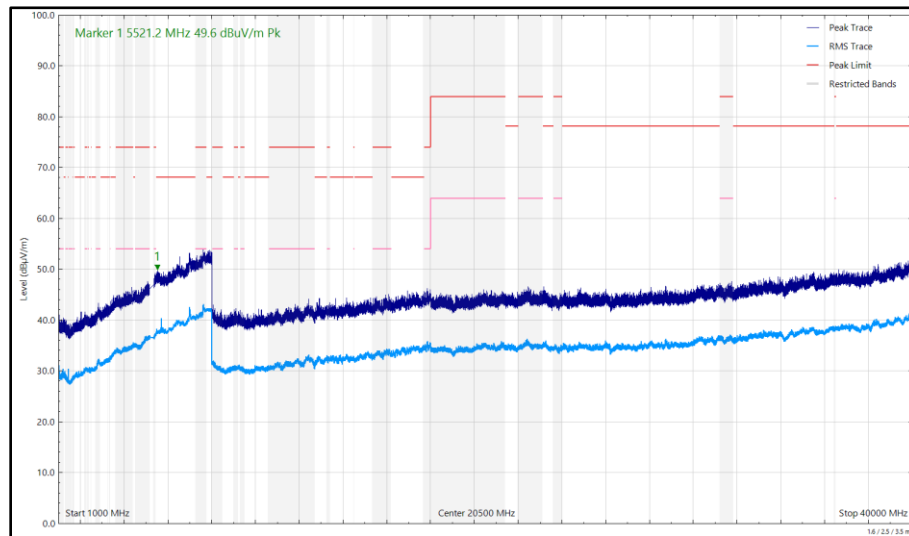


Figure 249 - 5245 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

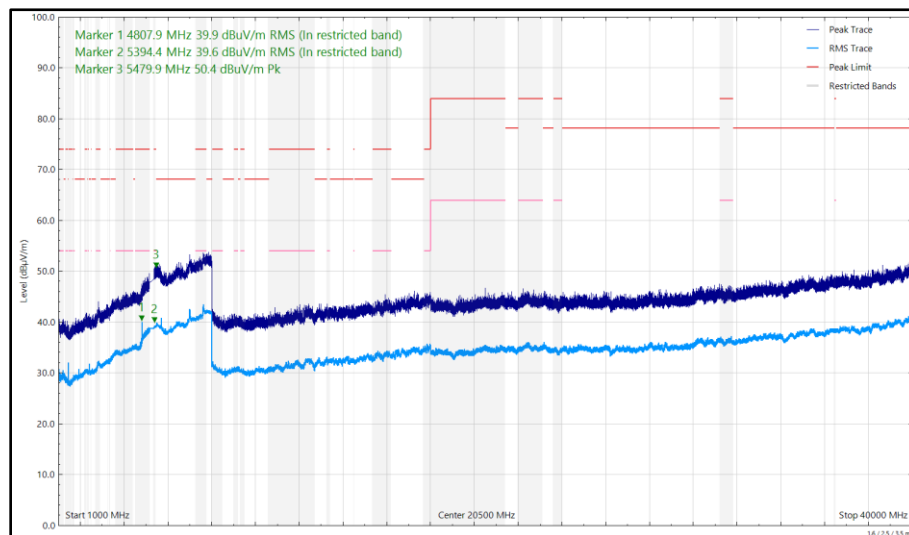


Figure 250 - 5245 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5323.645	54.53	68.20	-13.67	Peak	2	330	Vertical
5430.348	40.81	54.00	-13.19	RMS	355	268	Vertical
5419.973	37.98	54.00	-16.02	RMS	104	192	Horizontal
5323.190	53.40	68.20	-14.80	Peak	70	342	Horizontal
6141.901	52.56	68.20	-15.64	Peak	38	119	Vertical
6147.545	51.11	68.2	-17.09	Peak	292	172	Horizontal

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.

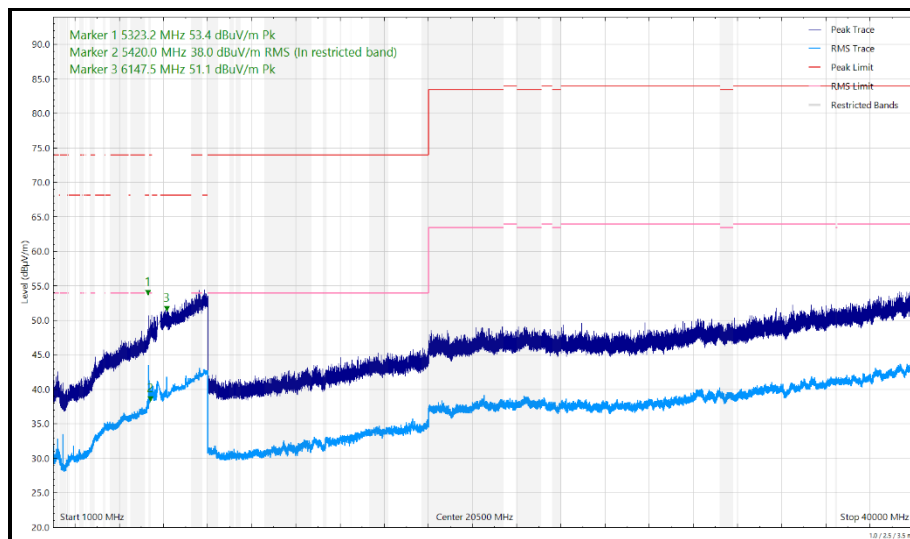


Figure 251 - 5733 MHz, HDR4, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

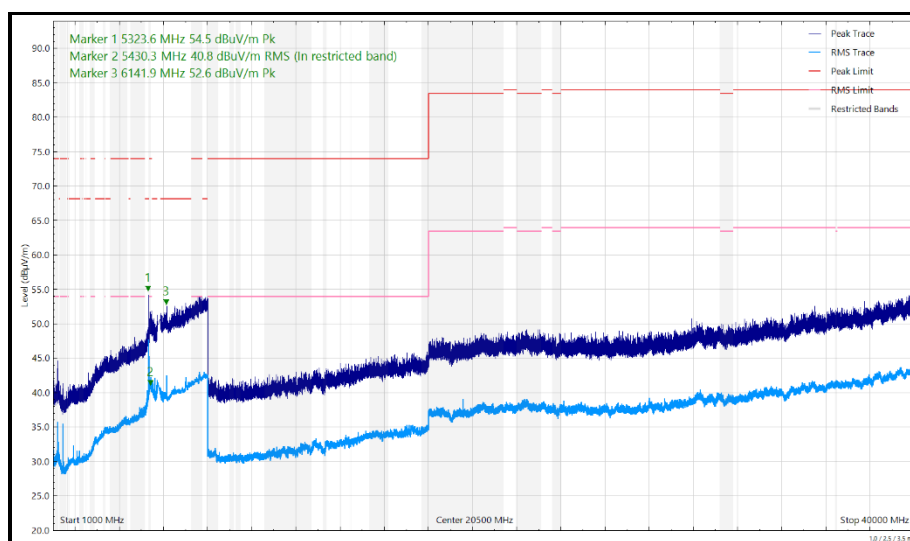


Figure 252 - 5733 MHz, HDR4, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
30.505	18.12	40.00	-21.88	Q-Peak	4	103	Vertical
41.823	20.95	40.00	-19.05	Q-Peak	82	111	Vertical
104.183	22.03	43.50	-21.47	Q-Peak	69	102	Vertical
112.825	27.22	43.50	-16.28	Q-Peak	182	280	Horizontal
122.524	25.85	43.50	-17.65	Q-Peak	190	277	Horizontal
172.927	22.57	43.50	-20.93	Q-Peak	360	261	Horizontal
400.496	23.96	46.00	-22.04	Q-Peak	205	100	Horizontal
1200.495	35.90	54.00	-18.10	RMS	139	158	Vertical
1440.054	35.22	54.00	-18.78	RMS	128	291	Vertical
4961.110	37.32	54.00	-16.68	RMS	348	276	Vertical
5374.560	49.26	54.00	-4.74	RMS	1	239	Vertical
5374.605	46.24	54.00	-7.76	RMS	67	372	Horizontal
5374.610	57.68	74.00	-16.32	Peak	2	293	Vertical
5492.840	52.07	68.20	-16.13	Peak	65	342	Horizontal
5497.444	54.81	68.20	-13.39	Peak	358	348	Vertical
5872.588	50.84	68.20	-17.36	Peak	58	399	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.

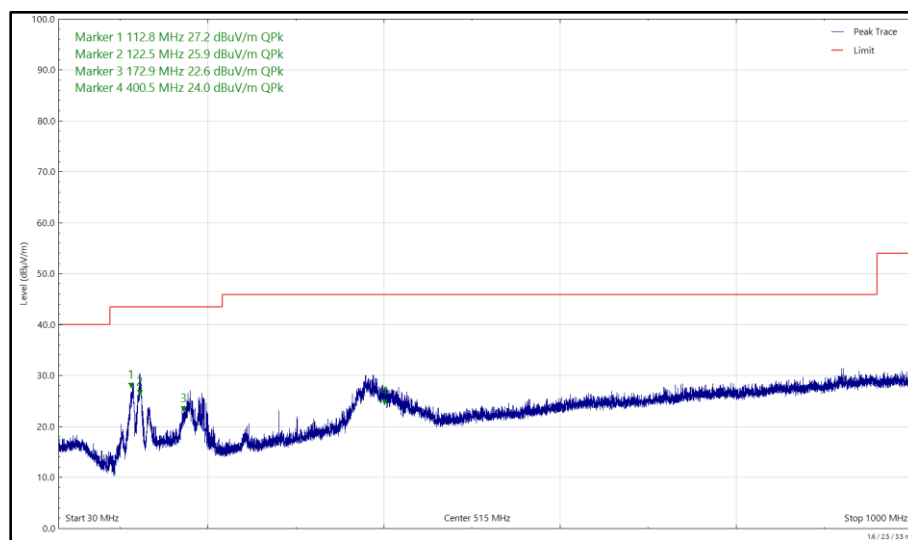


Figure 253 - 5788 MHz, HDR4, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

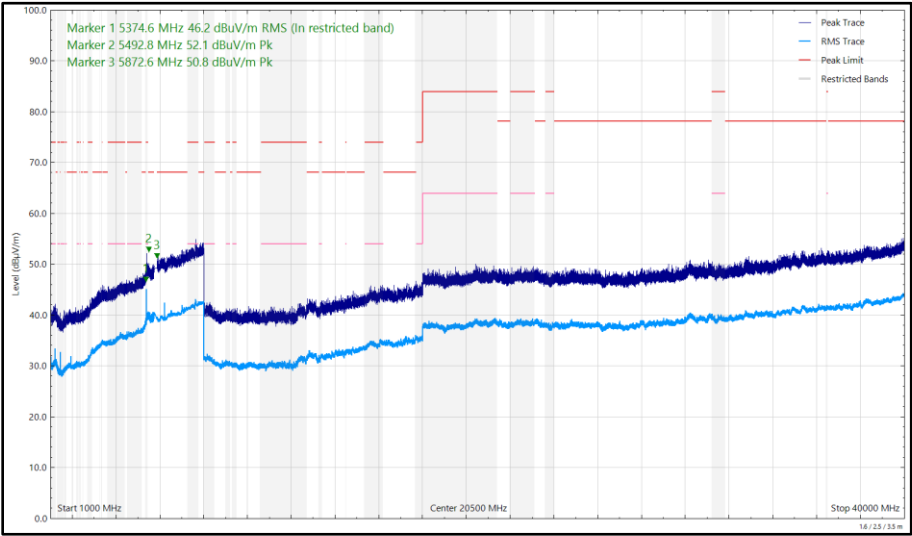


Figure 254 - 5788 MHz, HDR4, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

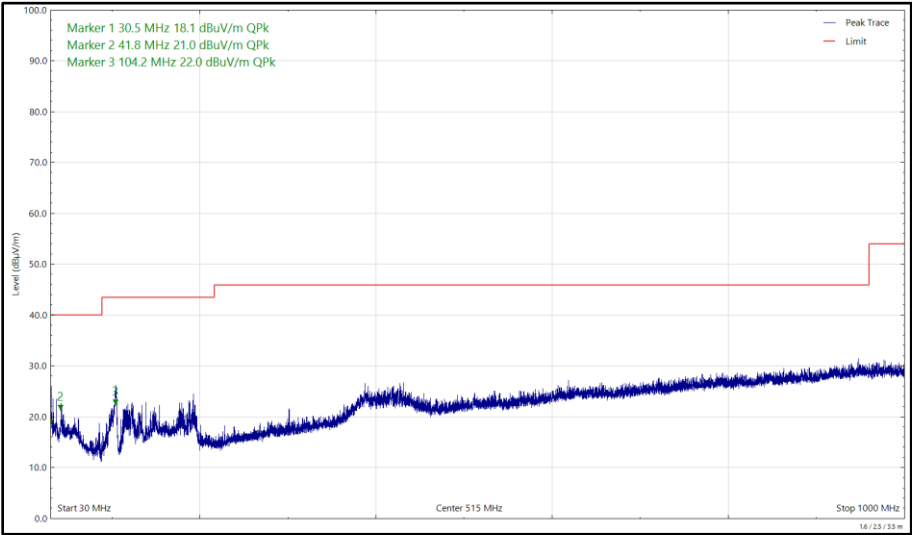


Figure 255 - 5788 MHz, HDR4, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

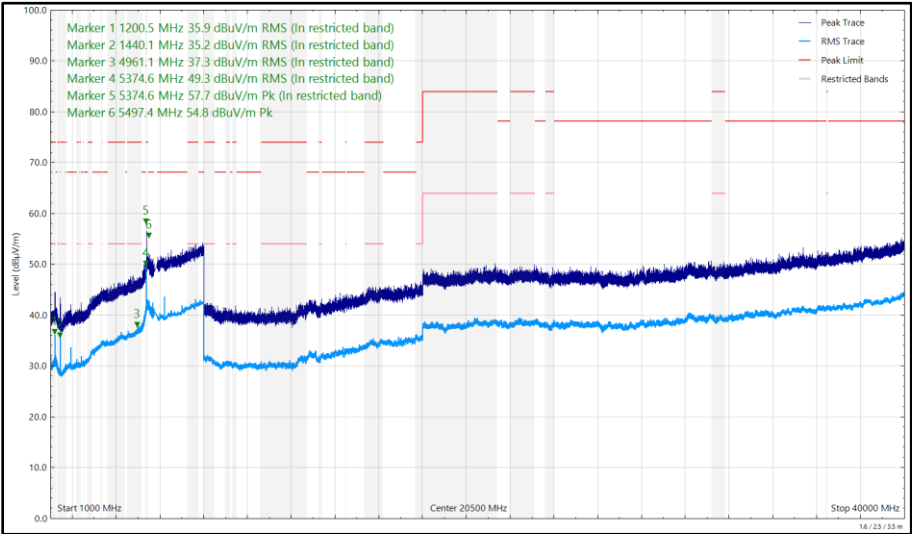


Figure 256 - 5788 MHz, HDR4, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
1200.260	34.35	54.00	-19.65	RMS	252	357	Vertical
1440.084	35.86	54.00	-18.14	RMS	135	256	Vertical
5009.155	40.41	54.00	-13.59	RMS	8	312	Vertical
5426.540	47.48	54.00	-6.52	RMS	70	340	Horizontal
5426.585	51.14	54.00	-2.86	RMS	5	325	Vertical
5426.835	59.57	74.00	-14.43	Peak	3	245	Vertical
5483.728	51.81	68.20	-16.39	Peak	74	316	Horizontal
5484.767	54.28	68.20	-13.92	Peak	356	256	Vertical
5866.031	52.52	68.20	-15.68	Peak	295	373	Horizontal
5868.936	52.48	68.20	-15.72	Peak	351	212	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.

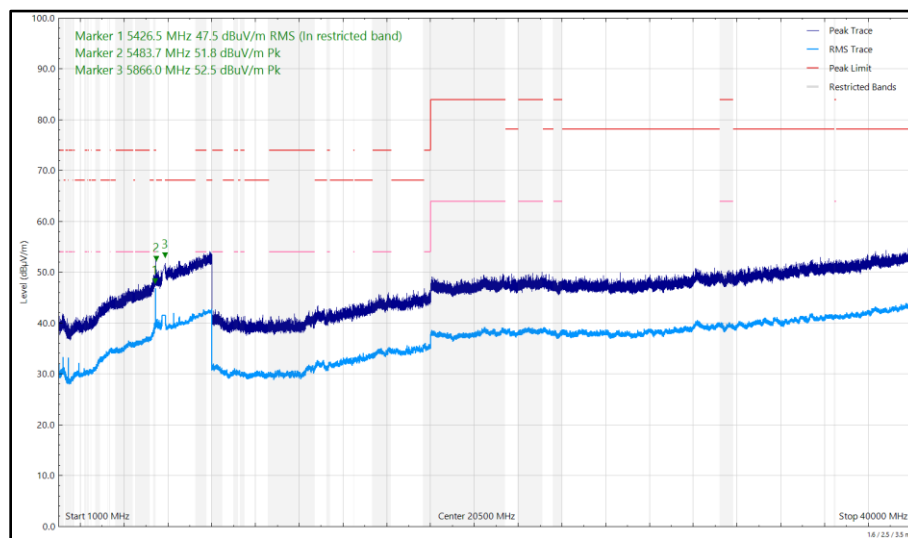


Figure 257 - 5844 MHz, HDR4, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

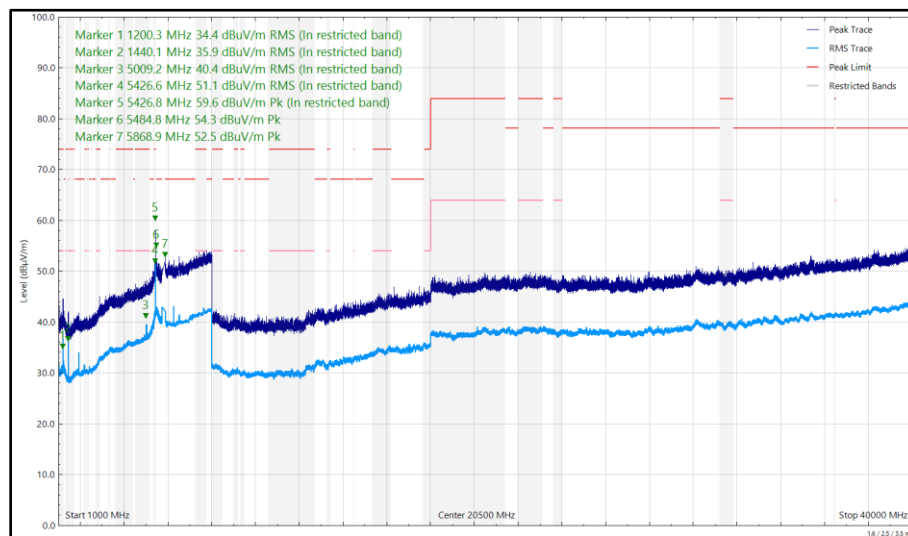


Figure 258 - 5844 MHz, HDR4, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

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 5.25-5.35 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 (μ V/m) at 3m	Field Strength Limit (dB μ V/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)



2.6.8 Test Location and Test Equipment Used

This test was carried out in RF Chamber 14 and RF Chamber 18.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
Emissions Software	TUV SUD	EmX V3.4.2	5125	-	Software
Test Receiver	Rohde & Schwarz	ESW44	5914	12	24-May-2025
Cable (K Type 2m)	Junkosha	MWX241-02000KMSKMS/B	5933	12	10-Jun-2025
DRG Horn Antenna (7.5-18GHz)	Schwarzbeck	HWRD750	5939	12	05-May-2025
1500W (300V 12A) AC Power Supply	iTech	IT7324	5955	-	O/P Mon
3m Semi-Anechoic Chamber	Albatross Projects	Chamber 14	6597	36	07-Feb-2026
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 1m)	Junkosha	MWX221-01000AMSAMS/A	6007	12	20-May-2025
Cable (N to N 1m)	Junkosha	MWX221-01000AMSAMS/B	6009	12	20-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	06-Jun-2025
Humidity & Temperature meter	R.S Components	1364	6148	12	29-Jul-2025
Humidity & Temperature meter	R.S Components	1364	6149	12	12-Aug-2025
SAC Switch Unit	TUV SUD	TUV_SSU_001	6190	12	22-Dec-2024
Attenuator 4dB	Pasternack	PE7074-4	6204	24	20-Jun-2026
USB Spectrum Analyser	Signal Hound	SA124B	6295	-	TU
USB Spectrum Analyser	Signal Hound	SA124B	6296	-	TU
Cable (SMA to SMA 8m)	Junkosha	MWX221-08000AMSAMS/B	6318	12	18-Feb-2025
Cable (K Type 2m)	Junkosha	MWX241-02000KMSKMS/B	6323	12	04-Feb-2025
EMC Test Receiver	Rohde & Schwarz	ESW44	6333	12	16-Feb-2025
Digital Multimeter	Fluke	115	6345	12	24-Jul-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
3m Semi-Anechoic Chamber	Albatross Projects	Chamber 18	6597	36	07-Feb-2026



Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
1m Cable	Junkosha	MWX241-01000AMSAMS/B	6741	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
Broad-Band Horn Antenna 1-10GHz N	Schwarzbeck	BBHA9120B	6825	12	18-Jul-2025
8M SMA Cable	Junkosha	MWX221-08000AMSAMS/B	6834	12	14-Aug-2025

Table 122

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	± 84.29 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 123

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.