

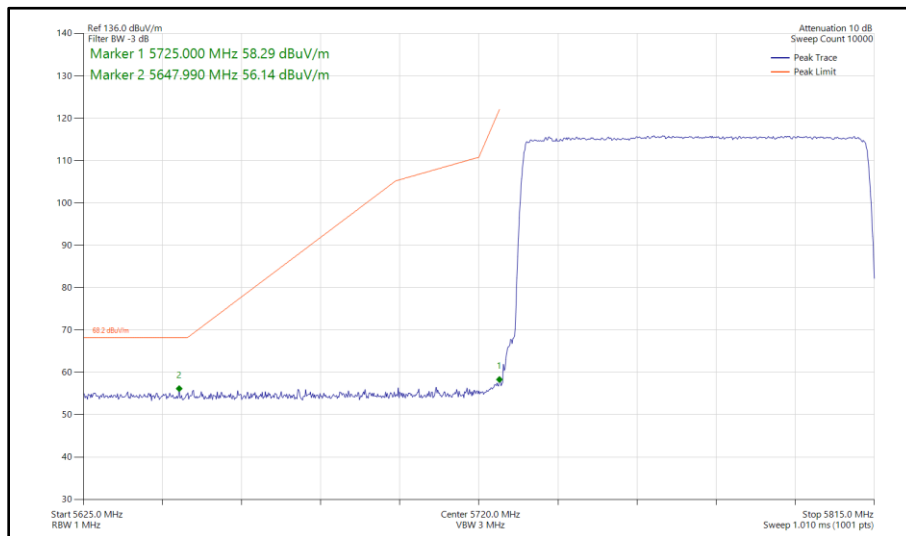


Figure 237 - Narrowband HDR8, SISO, Core 1 - 5733-5811 MHz
Band Edge Frequency 5725 MHz

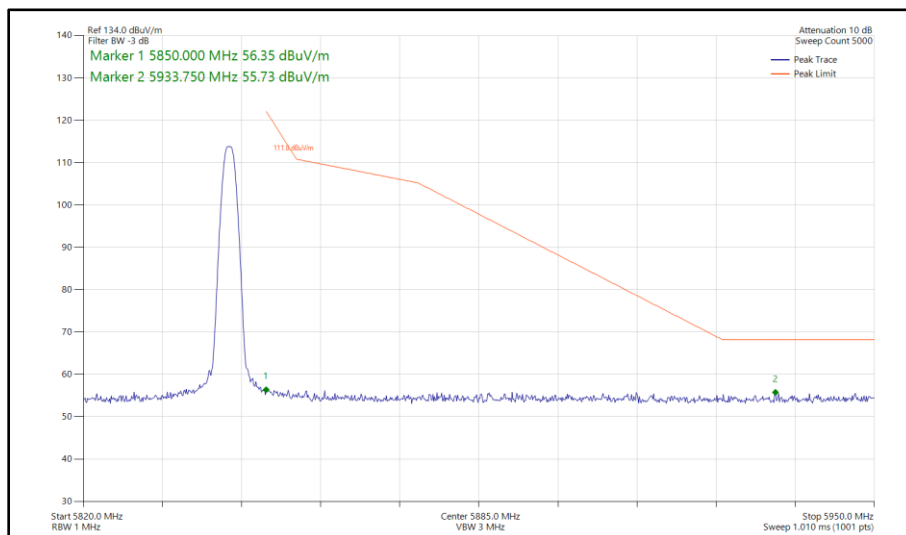


Figure 238 - Narrowband DH5, SISO, Core 1 - 5844 MHz
Band Edge Frequency 5850 MHz

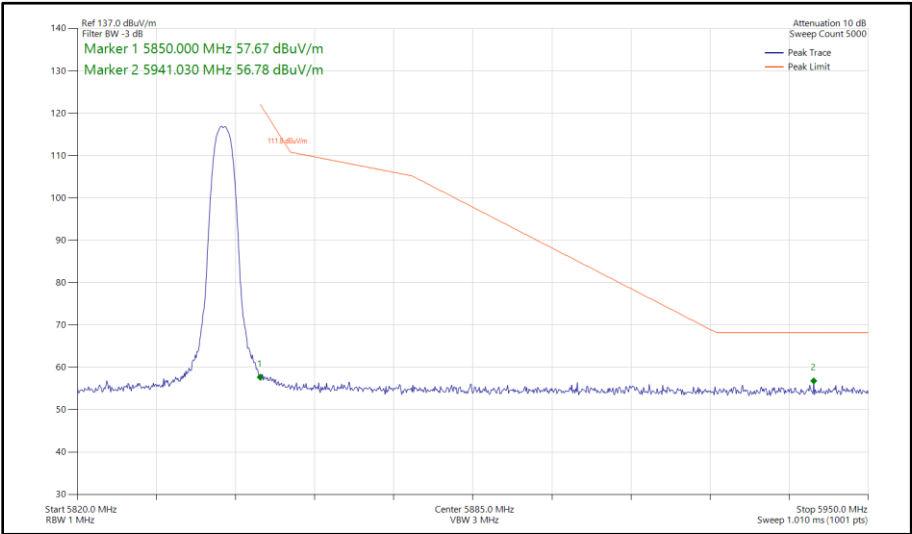


Figure 239 - Narrowband HDR4, SISO, Core 1 - 5844 MHz
Band Edge Frequency 5850 MHz

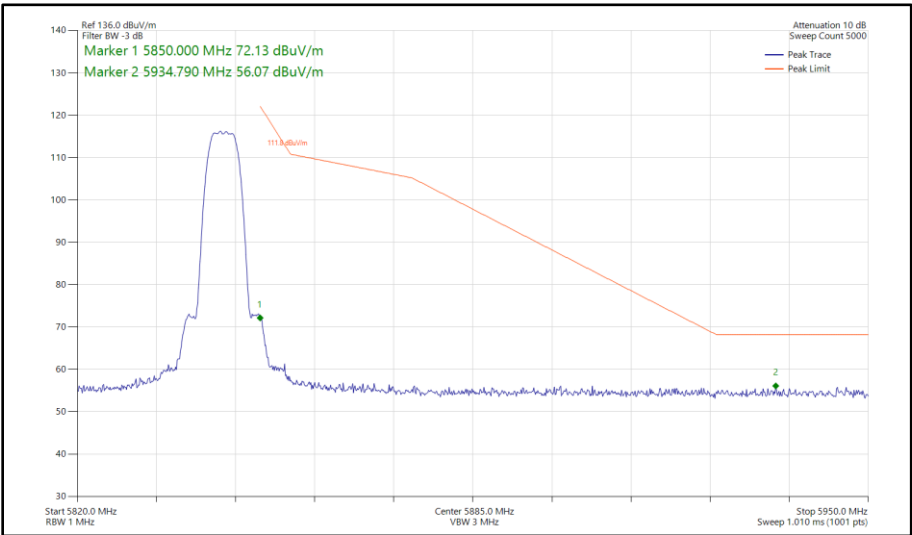


Figure 240 - Narrowband HDR8, SISO, Core 1 - 5844 MHz
Band Edge Frequency 5850 MHz

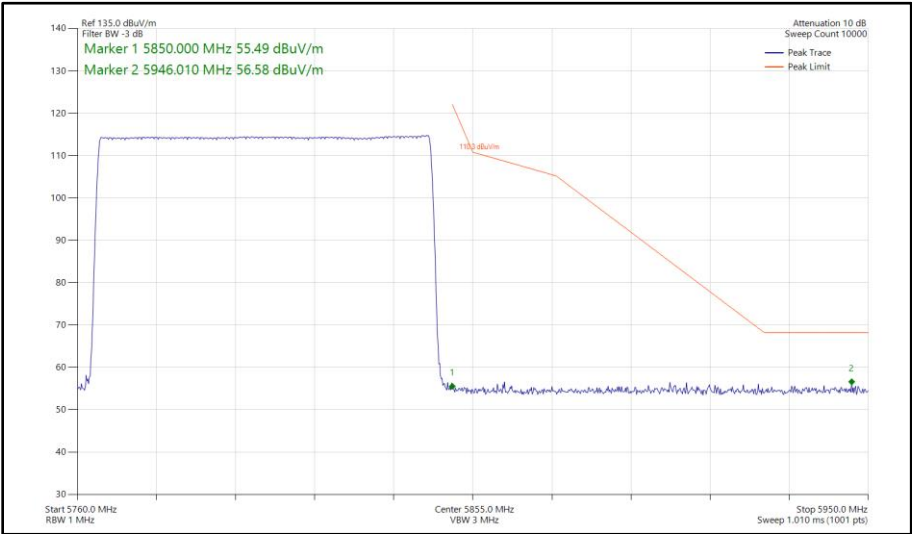


Figure 241 - Narrowband DH5, SISO, Core 1 - 5766-5844 MHz
Band Edge Frequency 5850 MHz

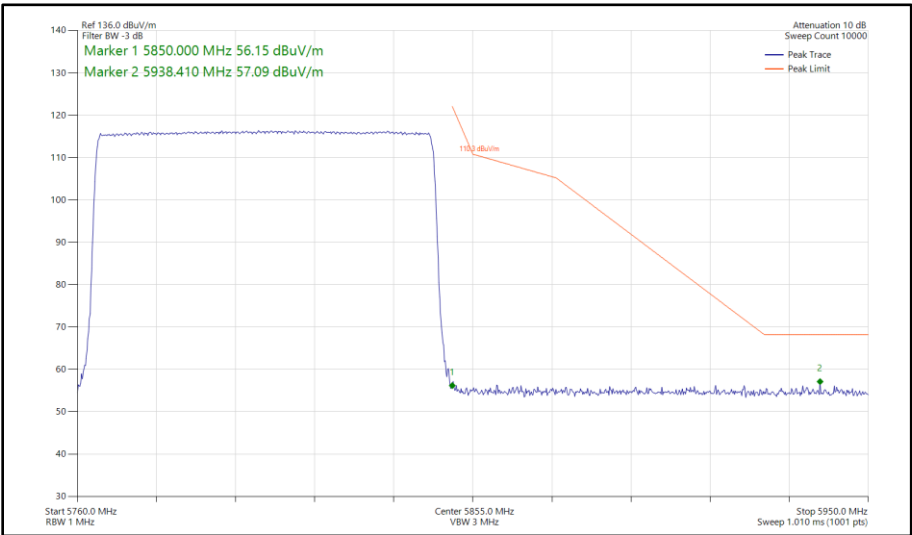
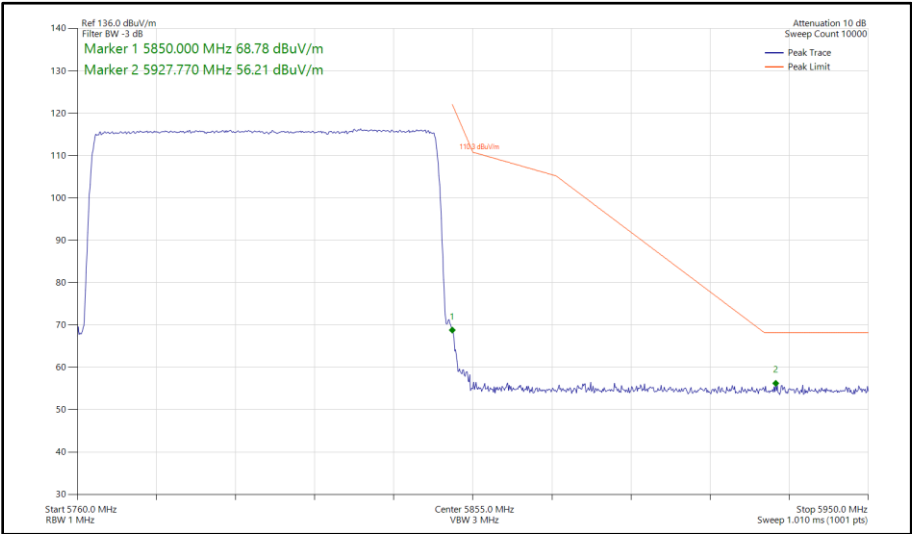


Figure 242 - Narrowband HDR4, SISO, Core 1 - 5766-5844 MHz
Band Edge Frequency 5850 MHz



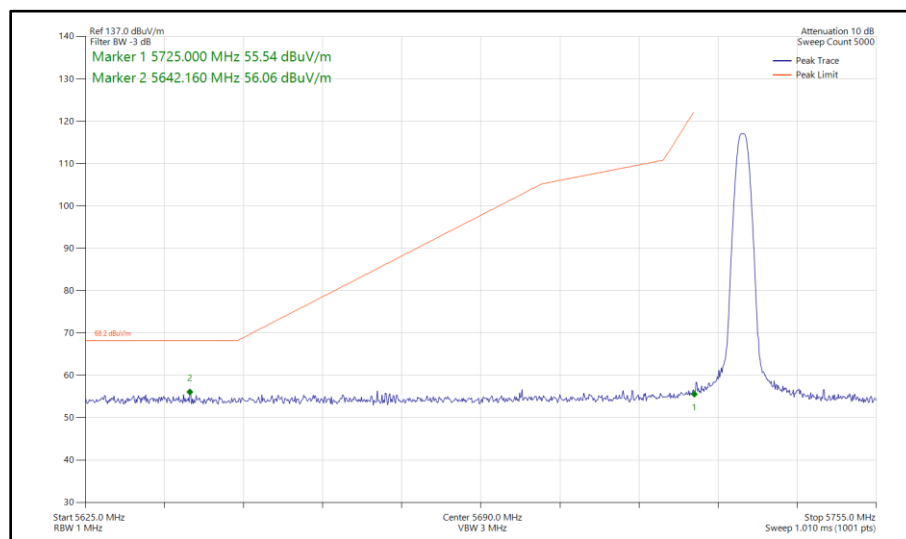
**Figure 243 - Narrowband HDR8, SISO, Core 1 - 5766-5844 MHz
Band Edge Frequency 5850 MHz**



ePA - Core 0 - Core 1 (MIMO)

Mode	Packet Type	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBμV/m)
Static	DH5	5733	5725	56.06
Static	HDR4	5733	5725	56.00
Static	HDR8	5733	5725	55.73
Hopping	DH5	5733-5811	5725	55.37
Hopping	HDR4	5733-5811	5725	56.12
Hopping	HDR8	5733-5811	5725	56.46
Static	DH5	5844	5850	55.91
Static	HDR4	5844	5850	55.88
Static	HDR8	5844	5850	56.29
Hopping	DH5	5766-5844	5850	56.60
Hopping	HDR4	5766-5844	5850	56.25
Hopping	HDR8	5766-5844	5850	56.21

Table 115 - MIMO Authorised Band Edge Results



**Figure 244 - Narrowband DH5, MIMO, Core 0 - Core 1 - 5733 MHz
Band Edge Frequency 5725 MHz**

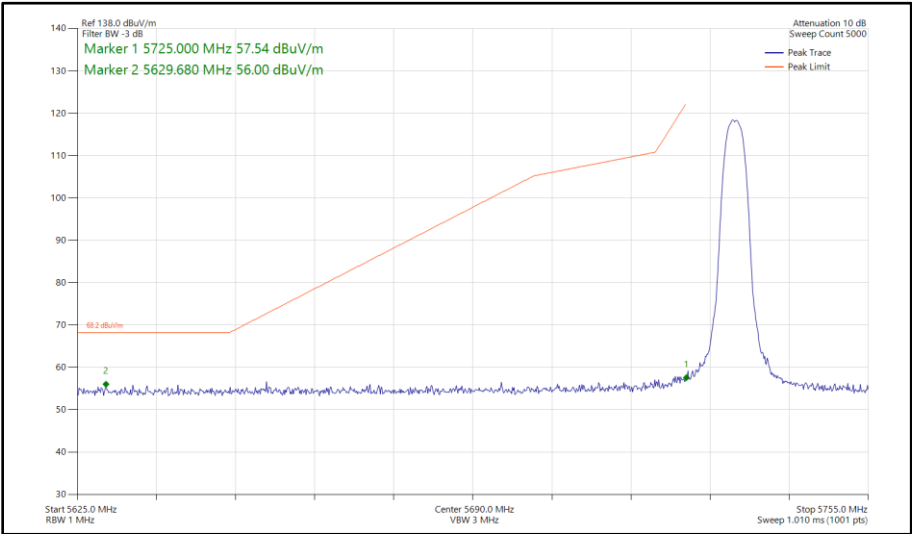


Figure 245 - Narrowband HDR4, MIMO, Core 0 - Core 1 - 5733 MHz
Band Edge Frequency 5725 MHz

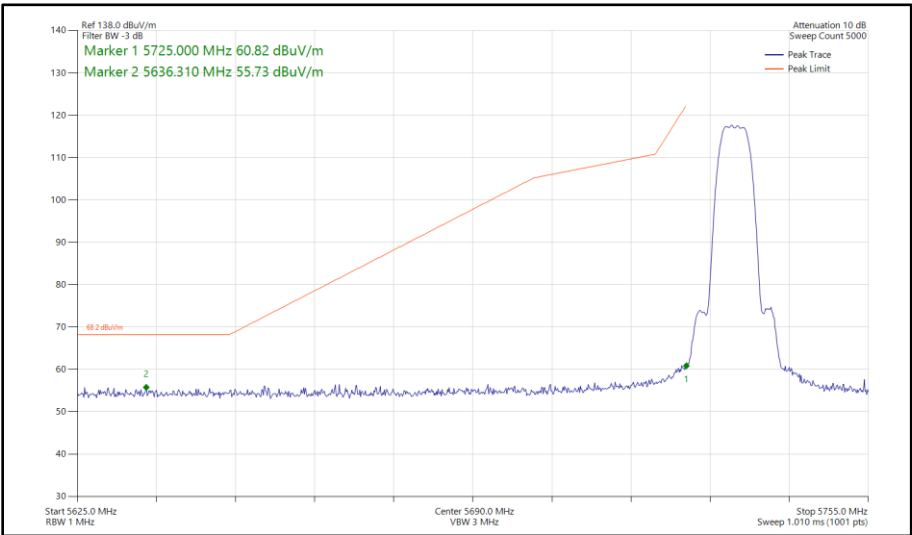


Figure 246 - Narrowband HDR8, MIMO, Core 0 - Core 1 - 5733 MHz
Band Edge Frequency 5725 MHz

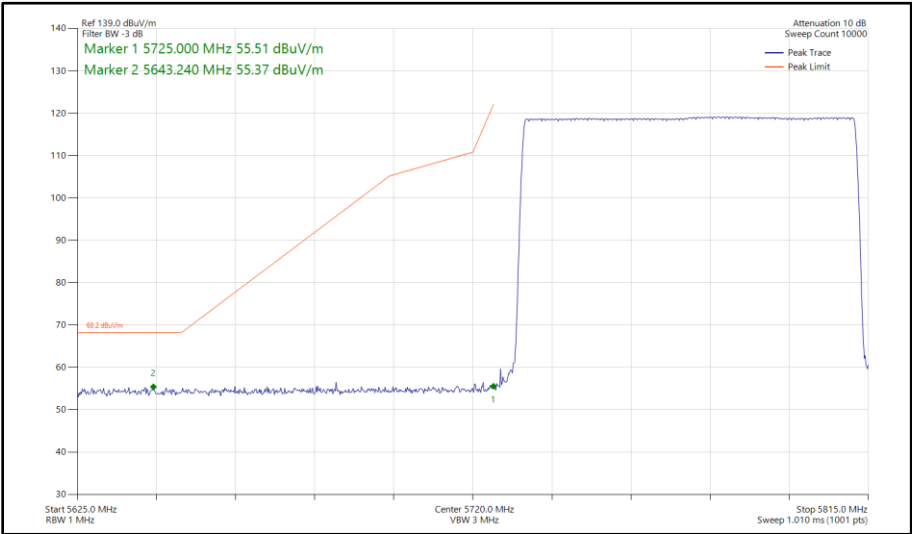


Figure 247 - Narrowband DH5, MIMO, Core 0 - Core 1 - 5733-5811 MHz
Band Edge Frequency 5725 MHz

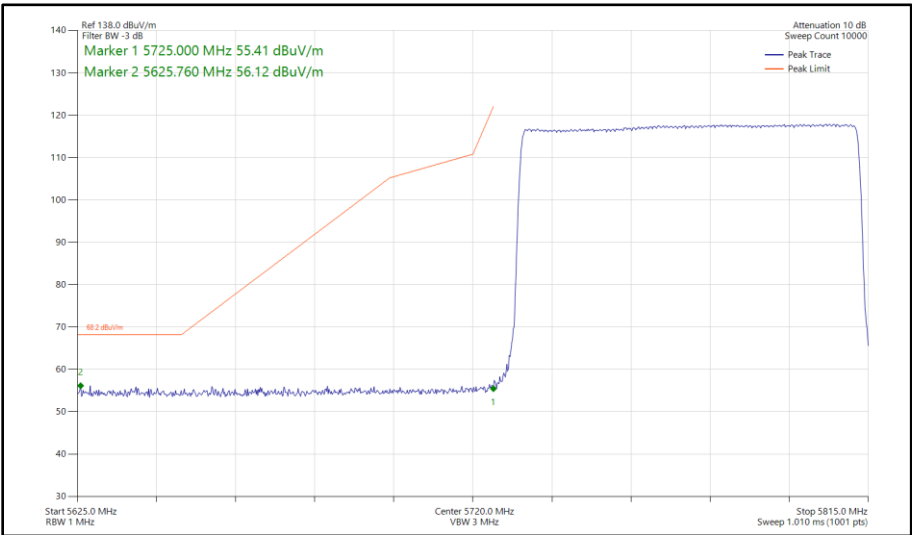


Figure 248 - Narrowband HDR4, MIMO, Core 0 - Core 1 - 5733-5811 MHz
Band Edge Frequency 5725 MHz

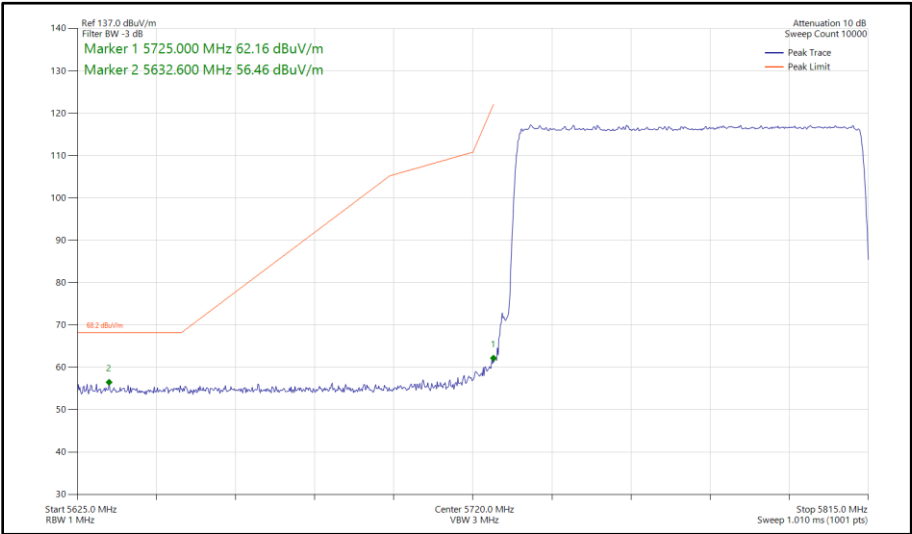


Figure 249 - Narrowband HDR8, MIMO, Core 0 - Core 1 - 5733-5811 MHz
Band Edge Frequency 5725 MHz

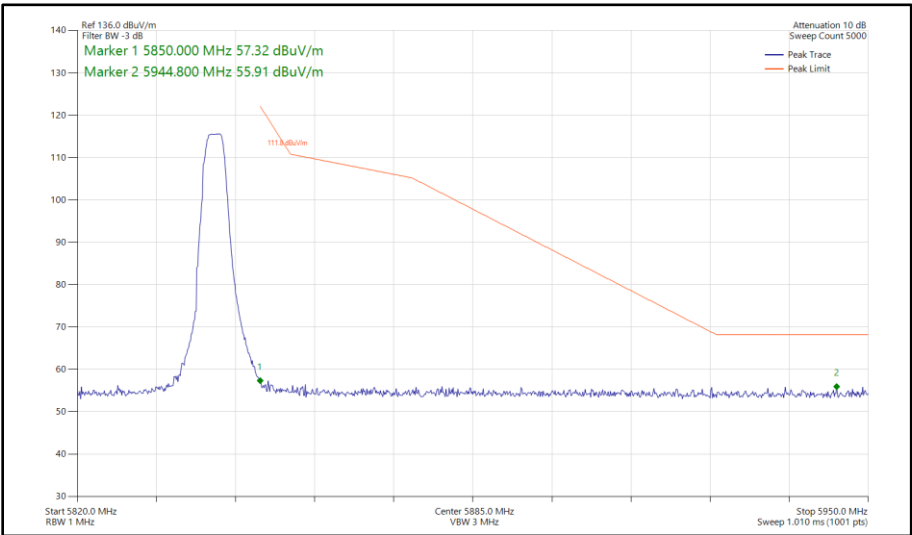


Figure 250 - Narrowband DH5, MIMO, Core 0 - Core 1 - 5844 MHz
Band Edge Frequency 5850 MHz

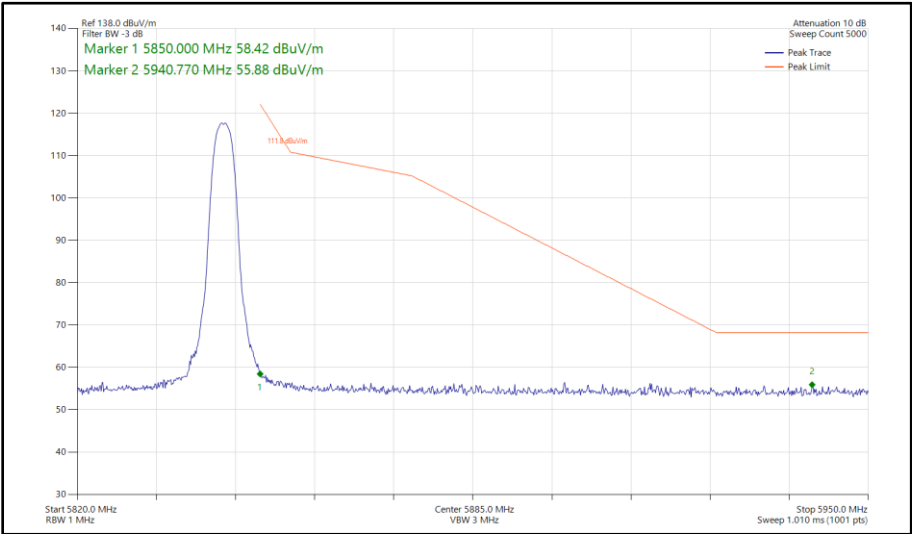


Figure 251 - Narrowband HDR4, MIMO, Core 0 - Core 1 - 5844 MHz
Band Edge Frequency 5850 MHz

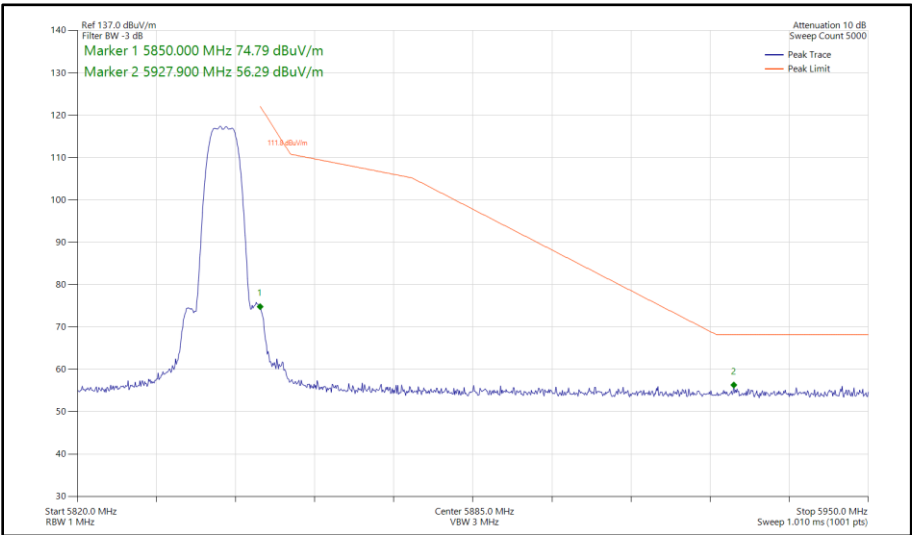
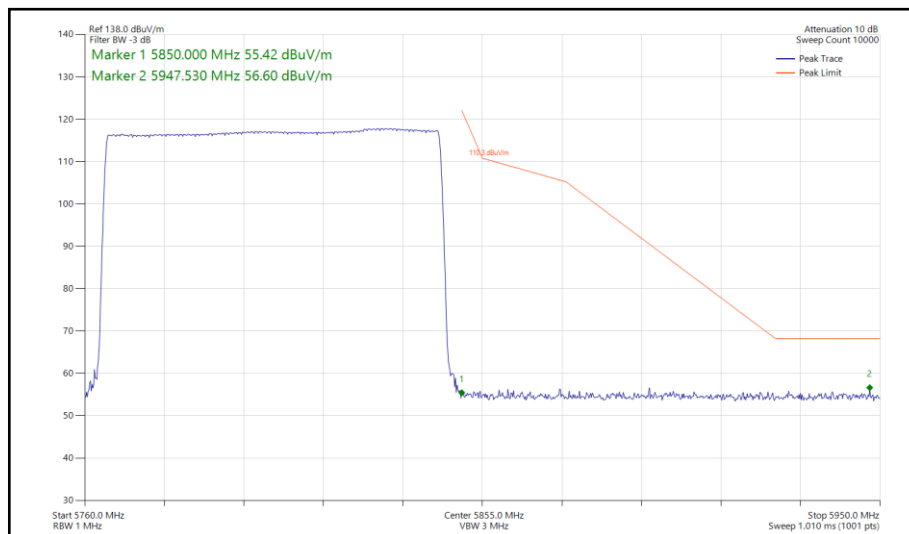
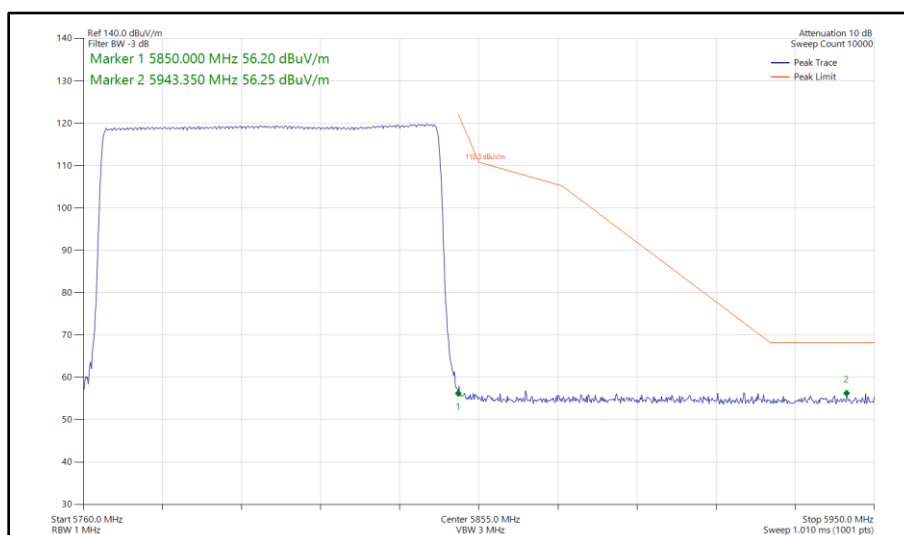


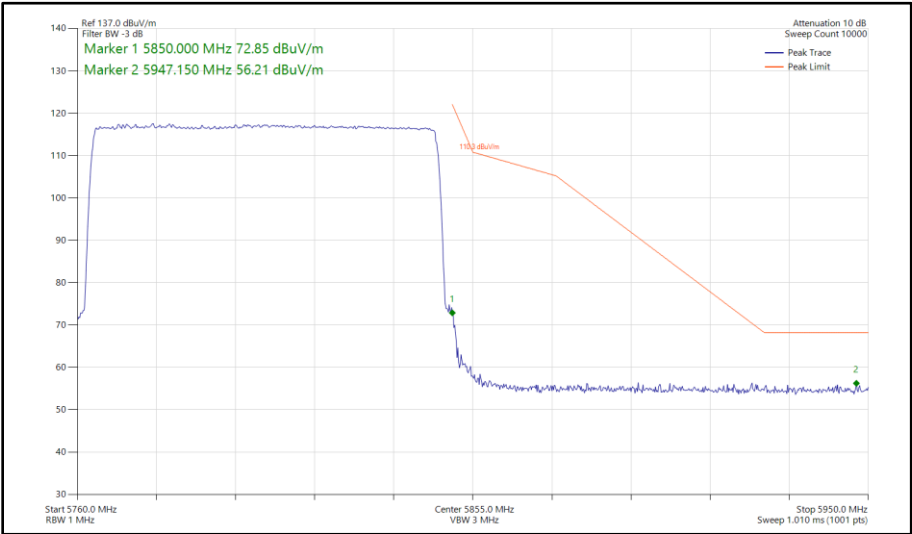
Figure 252 - Narrowband DH5, MIMO, Core 0 - Core 1 - 5844 MHz
Band Edge Frequency 5850 MHz



**Figure 253 - Narrowband HDR8, MIMO, Core 0 - Core 1 - 5844 MHz
Band Edge Frequency 5850 MHz**



**Figure 254 - Narrowband HDR4, MIMO, Core 0 - Core 1 - 5766-5844 MHz
Band Edge Frequency 5850 MHz**



**Figure 255 - Narrowband 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 and RF Chamber 15.

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	5911	12	11-Sep-2024
EMI Test Receiver	Rohde & Schwarz	ESW44	5912	12	05-Jul-2024
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 (SMA to SMA 1m)	Junkosha	MWX221-01000AMSAMS/A	5996	12	20-May-2025
Cable (SMA to SMA 1m)	Junkosha	MWX221-01000AMSAMS/A	5997	12	14-Sep-2024
Cable (SMA to SMA 4.5m)	Junkosha	MWX221-04500AMSAMS/A	6002	12	14-Sep-2024
Cable (SMA to SMA 3m)	Junkosha	MWX221-03000AMSAMS/A	6021	12	14-Sep-2024
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
Humidity & Temperature meter	R.S Components	1364	6149	12	07-Jul-2024
SAC Switch Unit	TUV SUD	TUV_SSU_001	6190	12	22-Dec-2024
Cable (SMA to SMA 3m)	Junkosha	MWX221-03000AMSAMS/A	6316	12	04-Feb-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 116

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

A3238, S/N: NQMK2V7Q9C - Modification State 0
A3238, S/N: V4KFHR9J44 - Modification State 0

2.6.3 Date of Test

15-June-2024 to 04-July-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 dBuV/m to uV/m:
 $10^{(\text{Field Strength in dBuV/m}/20)}$

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

Radiated spurious emissions tests have been conducted in DH5 (high power) mode as this represents worst case with respect to Power and PSD.

2.6.5 Test Setup Diagram

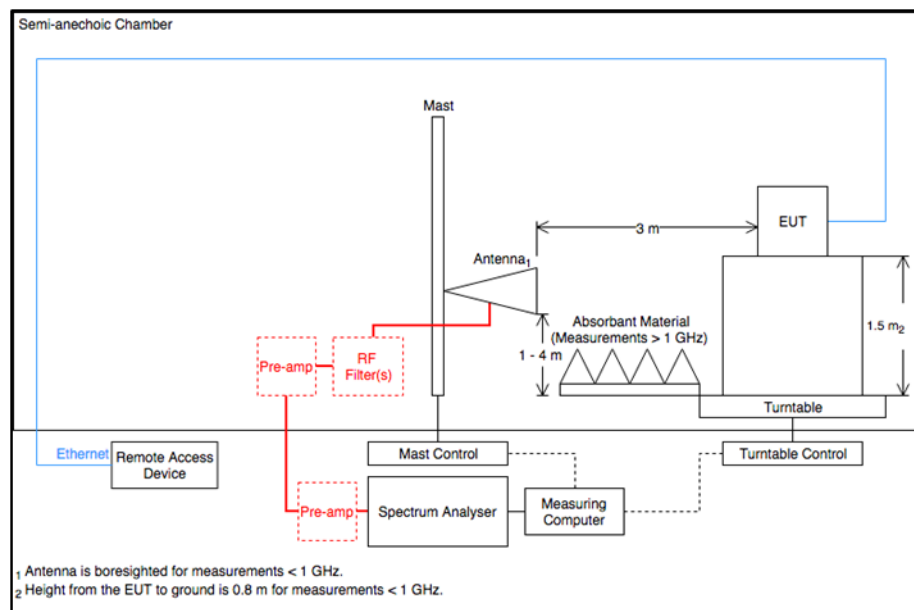


Figure 256 - Radiated Emissions Test Setup Diagram

2.6.6 Environmental Conditions

Ambient Temperature	21.6 - 23.1 °C
Relative Humidity	37.2 - 48.1 %

2.6.7 Test Results

Narrowband

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5119.769	36.62	54.00	-17.38	RMS	240	389	Vertical
5119.986	36.54	54.00	-17.46	RMS	263	360	Horizontal
5367.169	36.68	54.00	-17.32	RMS	288	380	Vertical
5427.814	36.74	54.00	-17.26	RMS	43	324	Horizontal

Table 117 - 5162 MHz, DH5, iPA, Core 0 - Core 1, 1 GHz to 40 GHz

No other emissions found within 10 dB of the limit.

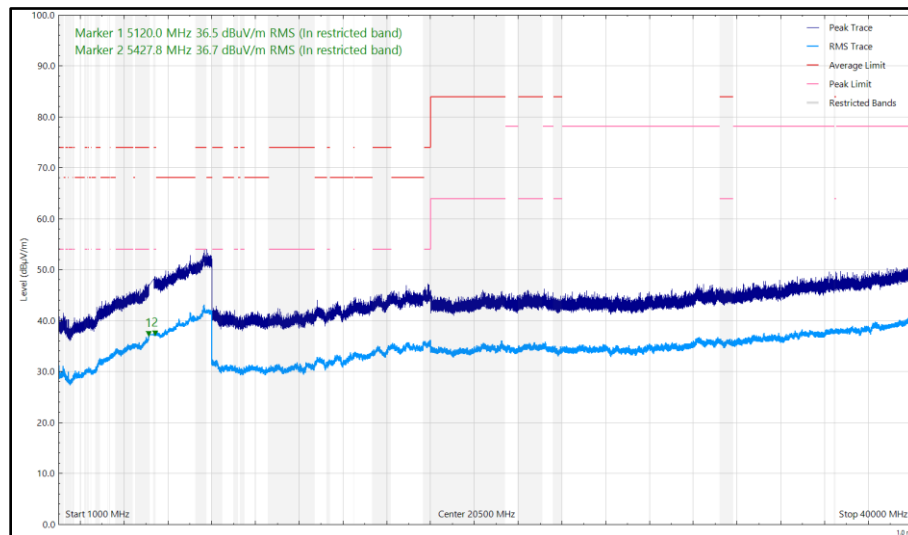


Figure 257 - 5162 MHz, DH5, iPA, Core 0 - Core 1, 1 GHz to 40 GHz, Horizontal

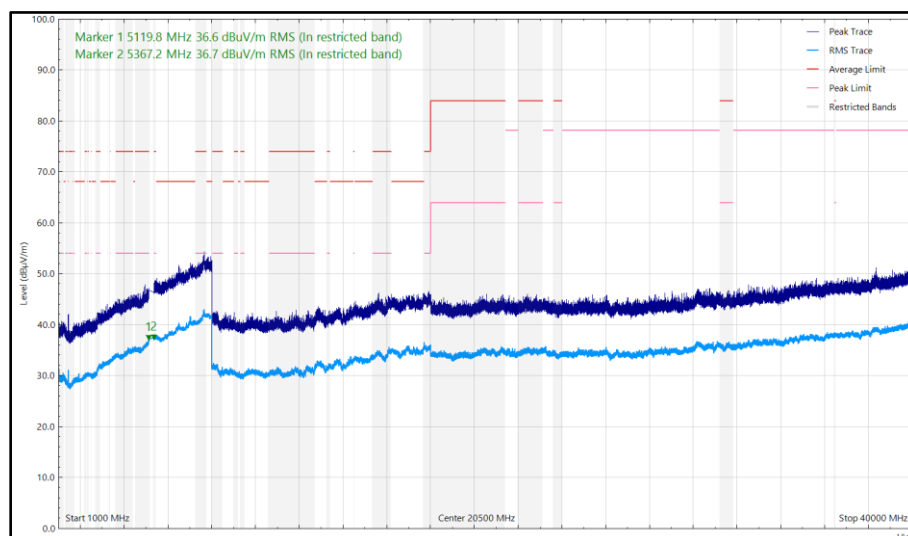


Figure 258 - 5162 MHz, DH5, iPA, Core 0 - Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
333.904	28.88	46.00	-17.12	Q-Peak	32	104	Horizontal
5139.396	35.26	54.00	-18.74	RMS	132	374	Vertical
5148.120	35.30	54.00	-18.70	RMS	192	393	Horizontal
5358.244	36.70	54.00	-17.30	RMS	114	272	Vertical
5359.635	36.69	54.00	-17.31	RMS	306	110	Horizontal

Table 118 - 5203 MHz, DH5, iPA, Core 0 - Core 1, 30 MHz to 40 GHz

No other emissions found within 10 dB of the limit.

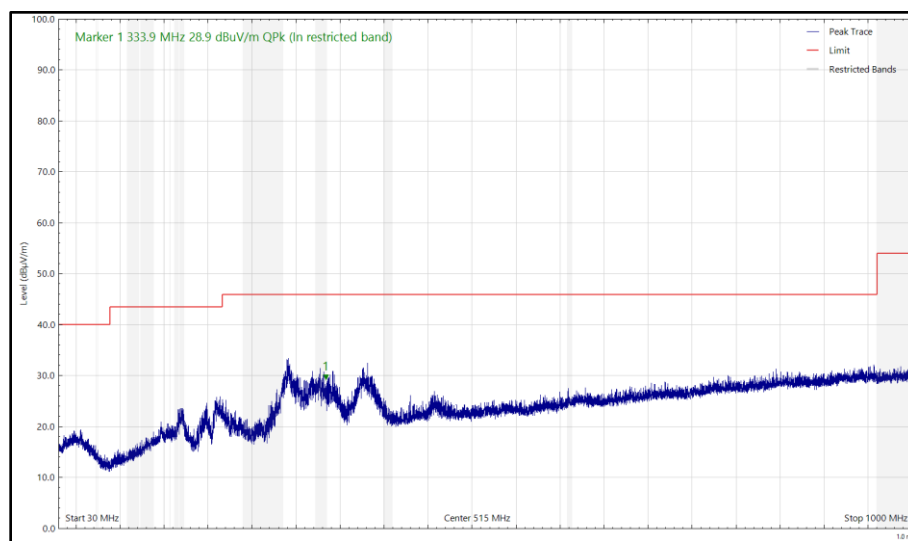


Figure 259 - 5203 MHz, DH5, iPA, Core 0 - Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

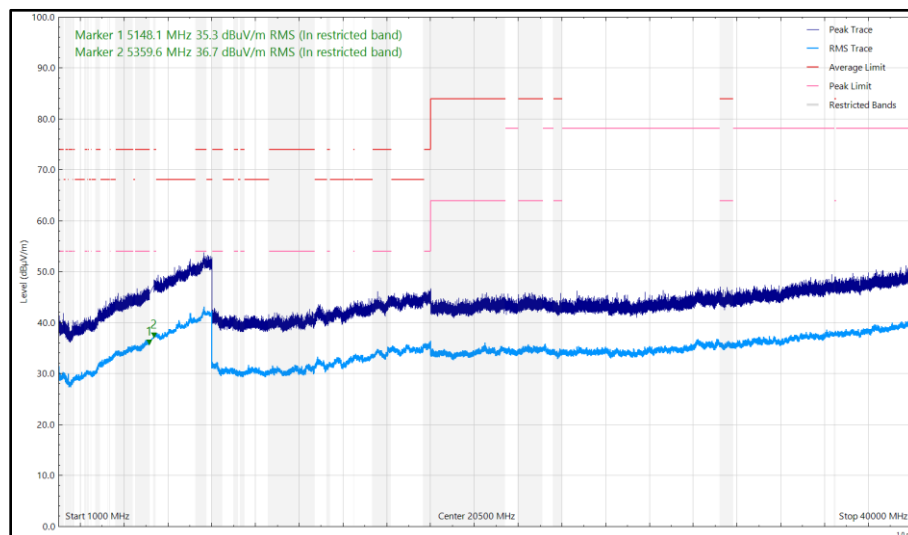


Figure 260 - 5203 MHz, DH5 iPA, Core 0 - Core 1, 1 GHz to 40 GHz, Horizontal

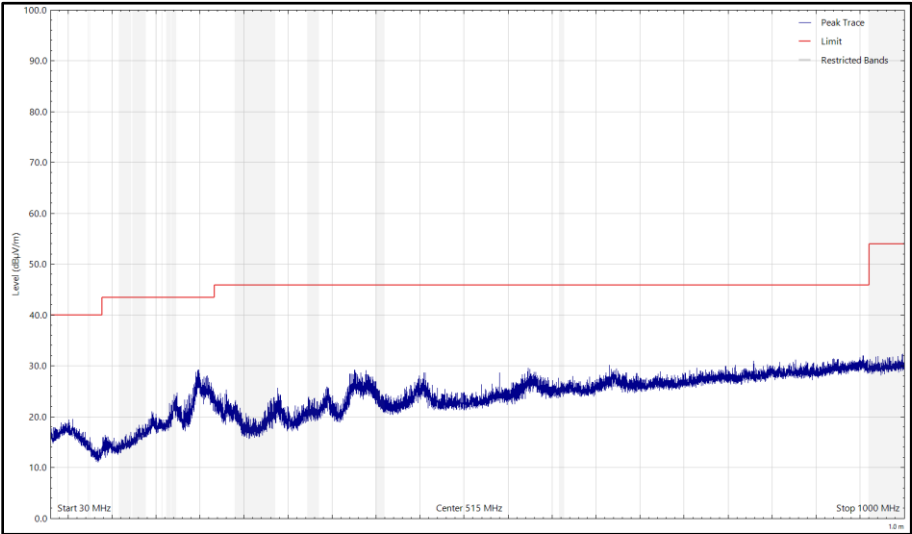


Figure 261 - 5203 MHz, DH5, Core 0 - Core 1, iPA, 30 MHz to 1 GHz, Vertical (Peak)

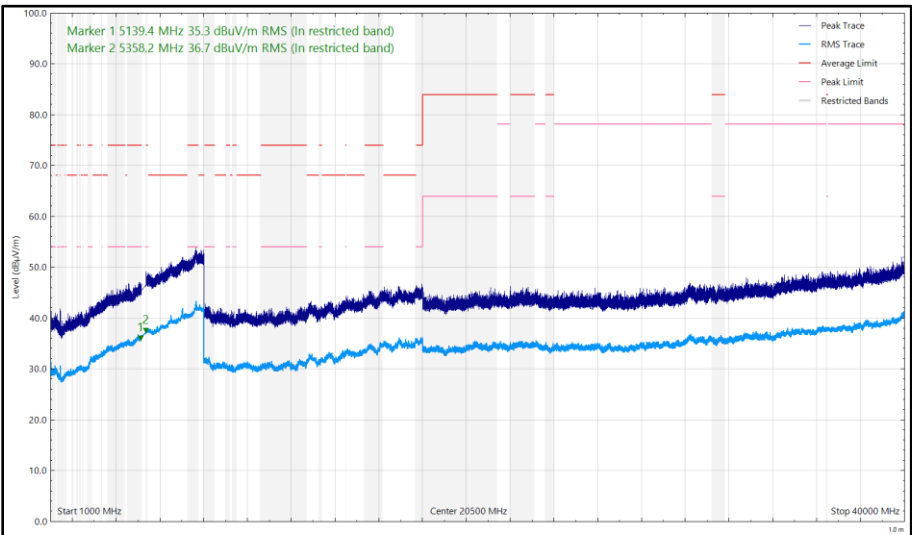


Figure 262 - 5203 MHz, DH5, Core 0 - Core 1, iPA, 1 GHz to 40 GHz, Vertical



Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5140.009	35.32	54.00	-18.68	RMS	101	384	Vertical
5358.759	36.67	54.00	-17.33	RMS	80	192	Horizontal
5359.818	36.68	54.00	-17.32	RMS	163	123	Vertical

Table 119 - 5245 MHz, DH5, iPA, Core 0 - Core 1, 1 GHz to 40 GHz

No other emissions found within 10 dB of the limit.

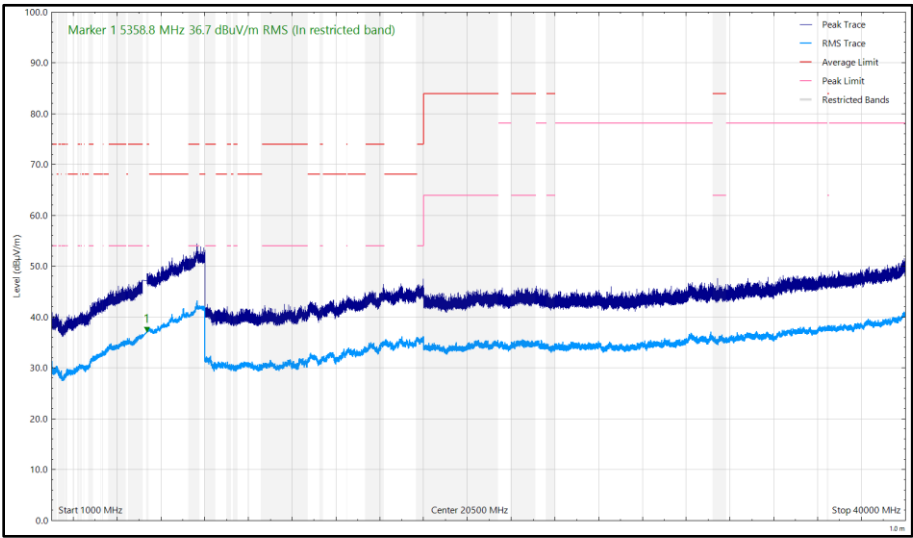


Figure 263 - 5245 MHz, DH5, iPA, Core 0 - Core 1, 1 GHz to 40 GHz, Horizontal

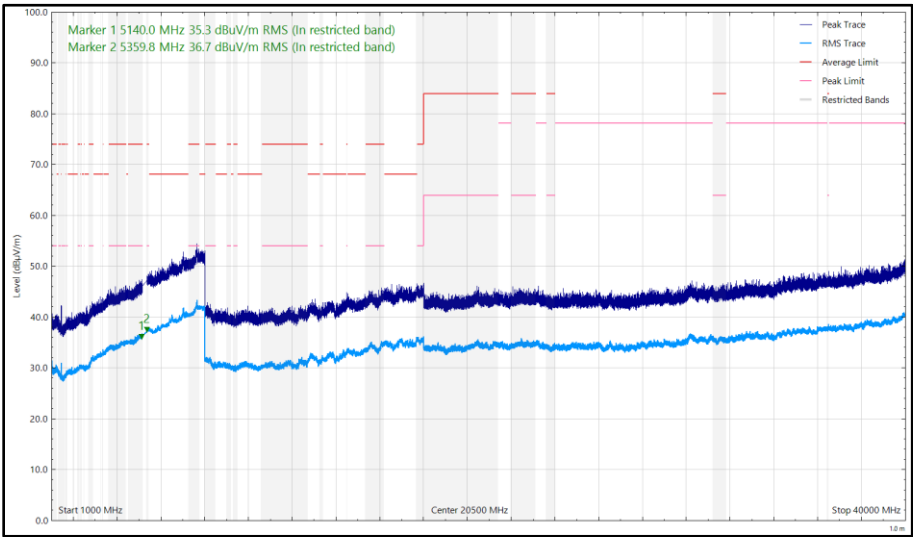


Figure 264 - 5245 MHz, DH5, iPA, Core 0 - Core 1, 1 GHz to 40 GHz, Vertical



Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5416.731	36.55	54.00	-17.45	RMS	18	298	Vertical
5431.624	36.69	54.00	-17.31	RMS	225	266	Horizontal

Table 120 - 5733 MHz, DH5, iPA, Core 0 - Core 1, 1 GHz to 40 GHz

No other emissions found within 10 dB of the limit.

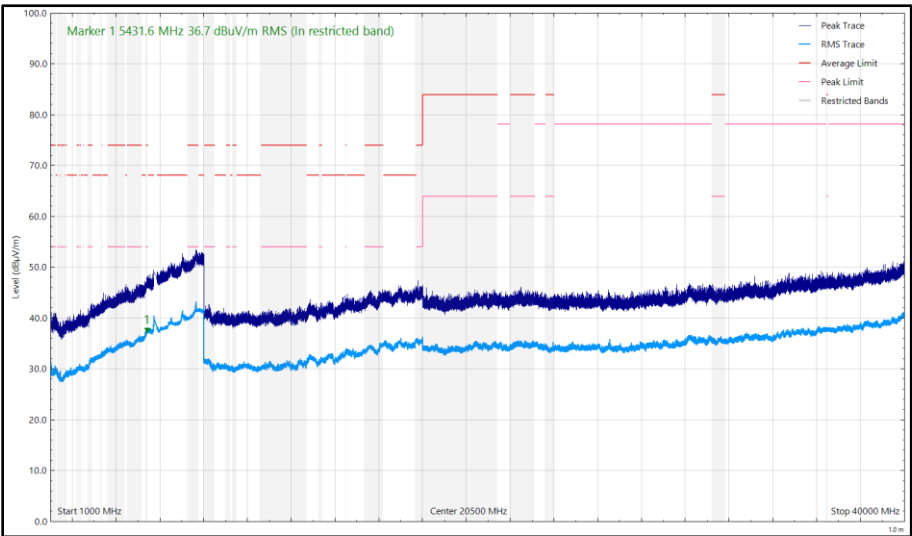


Figure 265 - 5733 MHz, DH5, iPA, Core 0 - Core 1, 1 GHz to 40 GHz, Horizontal

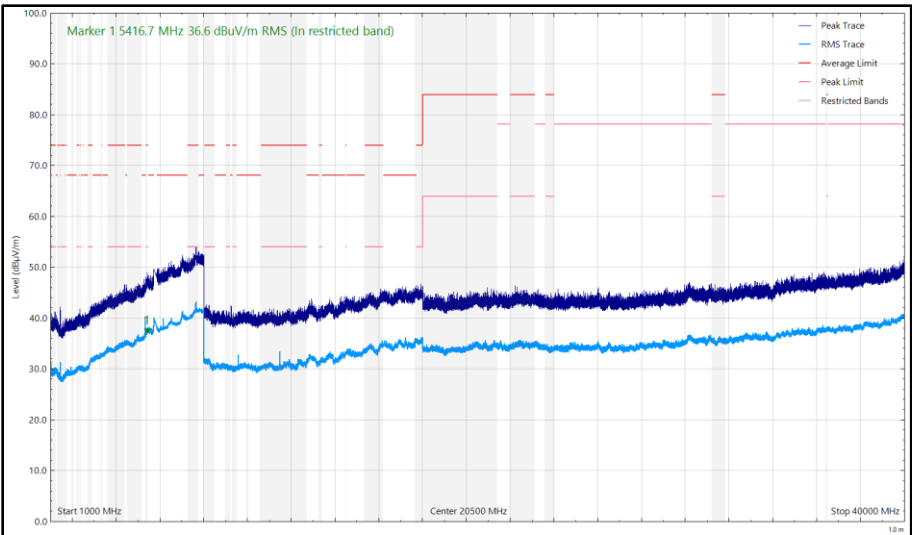


Figure 266 - 5733 MHz, DH5, iPA, Core 0 - Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
198.367	23.73	43.50	-19.77	Q-Peak	93	100	Vertical
324.926	27.00	46.00	-19.00	Q-Peak	16	100	Horizontal
5374.548	39.27	54.00	-14.73	RMS	118	100	Vertical
5405.297	36.44	54.00	-17.56	RMS	26	255	Horizontal
5712.848	50.62	68.20	-17.58	Peak	111	143	Horizontal
5713.679	50.79	68.20	-17.41	Peak	298	285	Vertical
11575.995	38.47	54.00	-15.53	RMS	251	100	Vertical

Table 121 - 5788 MHz, DH5, iPA, Core 0 - Core 1, 30 MHz to 40 GHz

No other emissions found within 10 dB of the limit.

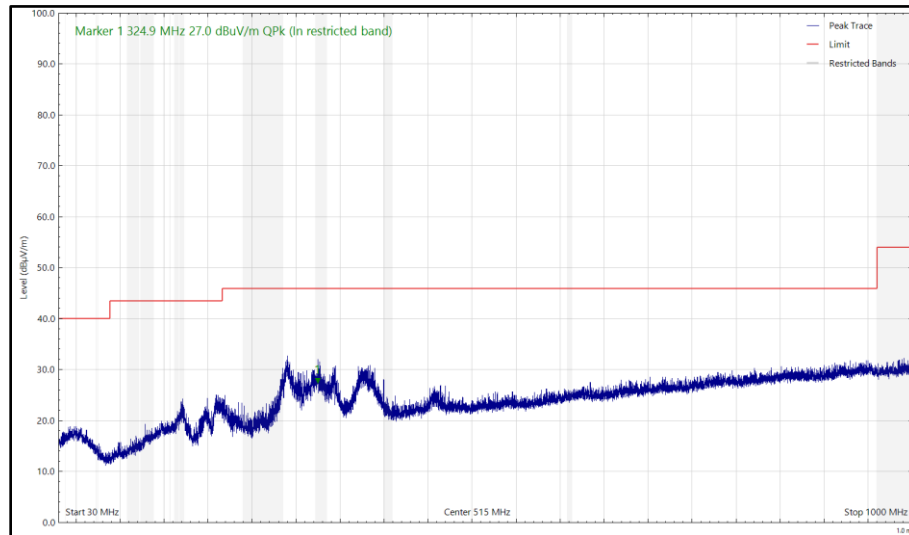


Figure 267 - 5788 MHz, DH5, iPA, Core 0 - Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

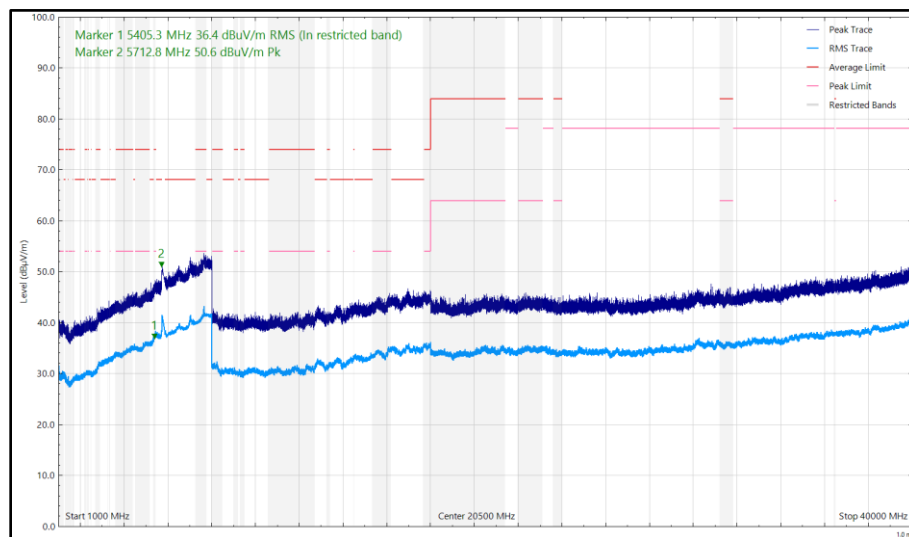


Figure 268 - 5788 MHz, DH5, iPA, Core 0 - Core 1, 1 GHz to 40 GHz, Horizontal

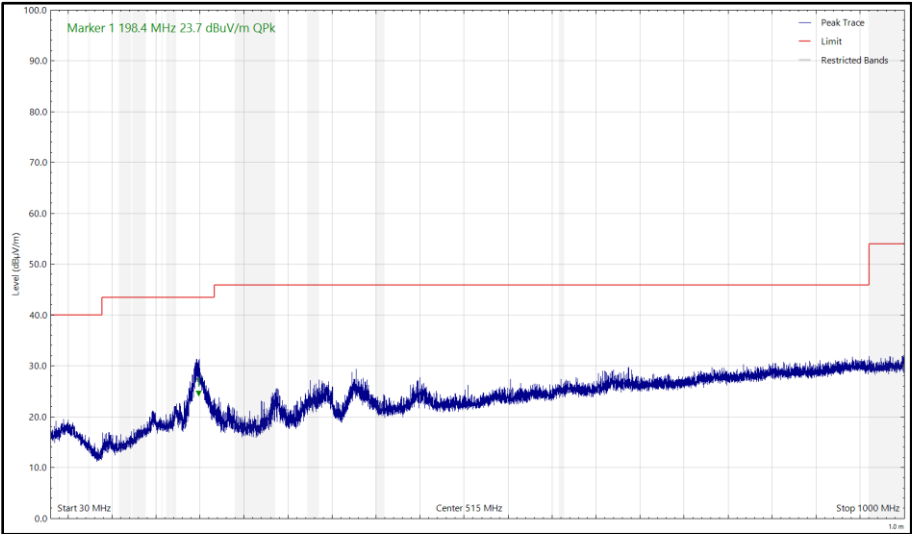


Figure 269 - 5788 MHz, DH5, iPA, Core 0 - Core 1, 30 MHz to 1 GHz, Vertical (Peak)

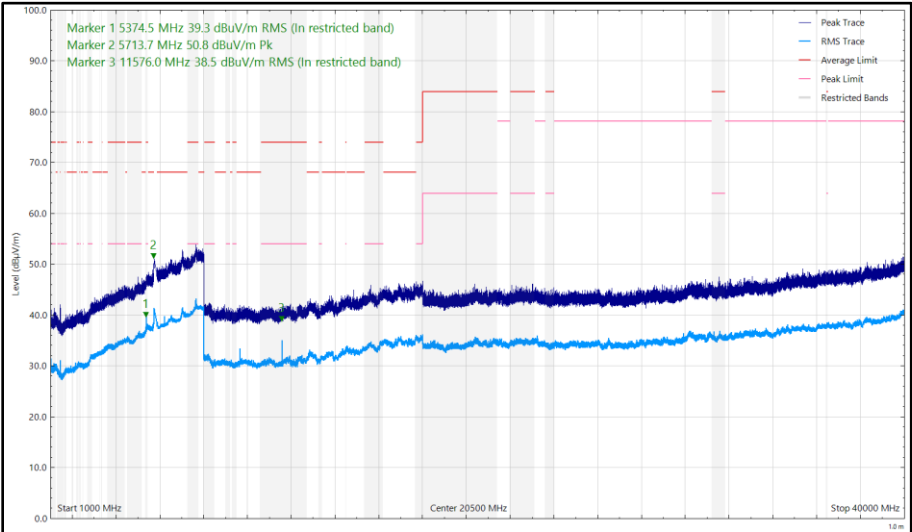


Figure 270 - 5788 MHz, DH5, iPA, Core 0 - Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5413.072	36.56	54.00	-17.44	RMS	108	392	Horizontal
5426.614	41.29	54.00	-12.71	RMS	118	106	Vertical
5711.586	50.85	68.20	-17.35	Peak	108	384	Horizontal
5713.163	51.03	68.20	-17.17	Peak	123	394	Vertical

Table 122 - 5844 MHz, DH5, iPA, Core 0 - Core 1, 1 GHz to 40 GHz

No other emissions found within 10 dB of the limit.

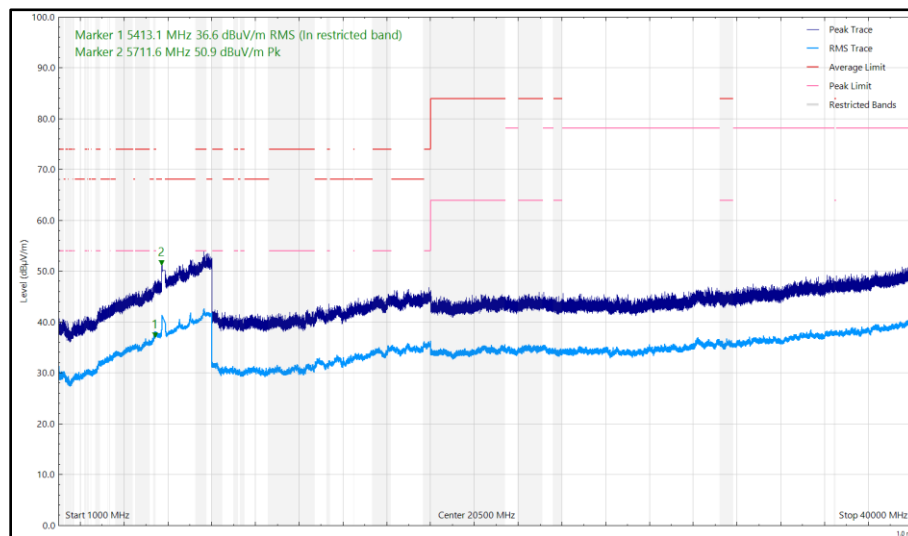


Figure 271 - 5844 MHz, DH5, iPA, Core 0 - Core 1, 1 GHz to 40 GHz, Horizontal

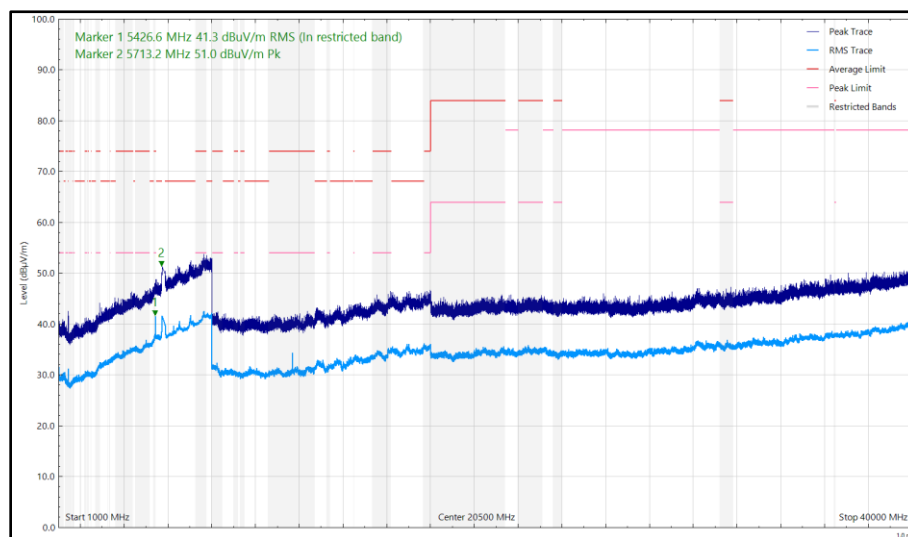


Figure 272 - 5844 MHz, DH5, Core 0 - Core 1, iPA, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5100.302	36.32	54.00	-17.68	RMS	250	253	Vertical
5109.111	35.86	54.00	-18.14	RMS	109	318	Horizontal
5368.582	37.42	54.00	-16.58	RMS	120	158	Vertical
5425.229	36.96	54.00	-17.04	RMS	215	341	Horizontal
5509.885	49.31	68.20	-18.89	Peak	118	269	Horizontal
5592.115	51.86	68.20	-16.34	Peak	121	262	Vertical

Table 123 - 5162 MHz, DH5, ePA, Core 0 - Core 1, 1 GHz to 40 GHz

No other emissions found within 10 dB of the limit.

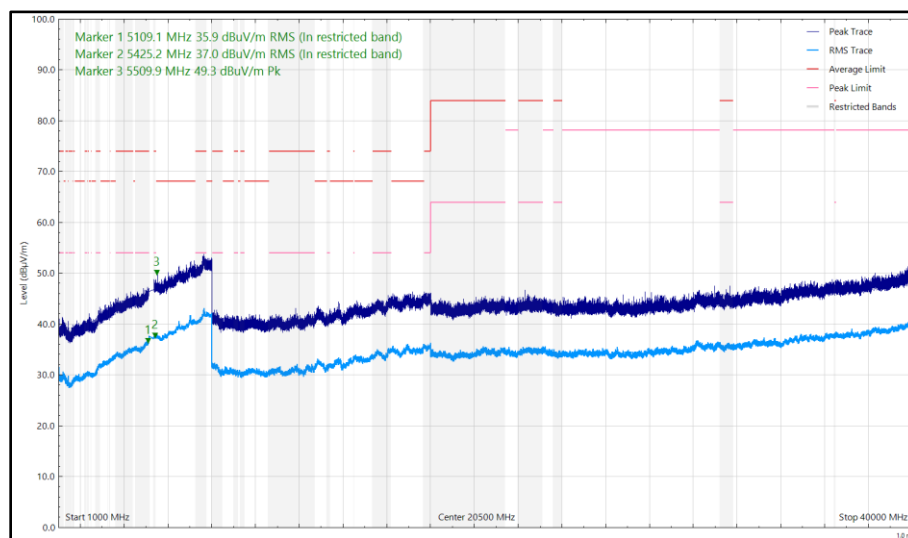


Figure 273 - 5162 MHz, DH5, ePA, Core 0 - Core 1, 1 GHz to 40 GHz, Horizontal

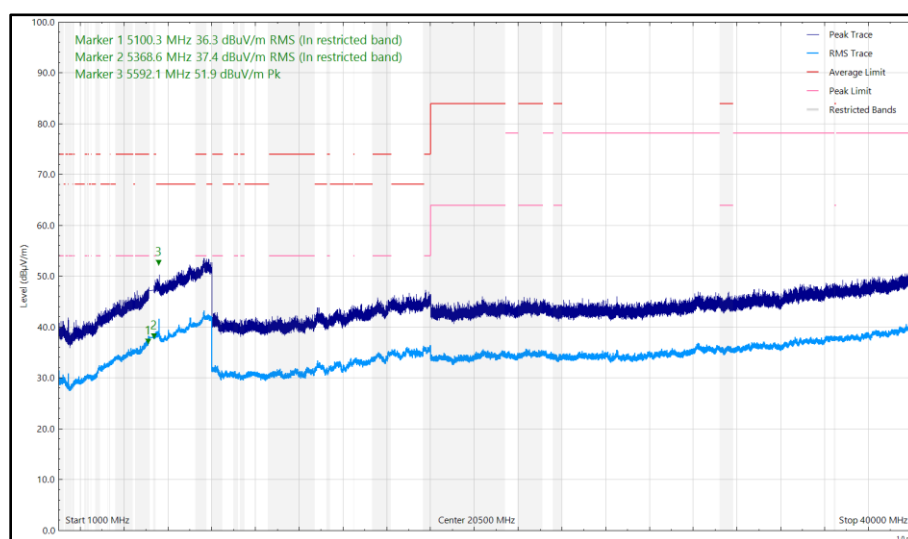


Figure 274 - 5162 MHz, DH5, ePA, Core 0 - Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
200.078	21.58	43.50	-21.92	Q-Peak	254	106	Vertical
324.598	27.57	46.00	-18.43	Q-Peak	23	106	Horizontal
5130.678	36.37	54.00	-17.63	RMS	260	392	Vertical
5135.312	35.32	54.00	-18.68	RMS	262	155	Horizontal
5360.282	36.76	54.00	-17.24	RMS	112	128	Horizontal
5432.611	37.93	54.00	-16.07	RMS	261	400	Vertical

Table 124 - 5203 MHz, DH5, ePA, Core 0 - Core 1, 30 MHz to 40 GHz

No other emissions found within 10 dB of the limit.

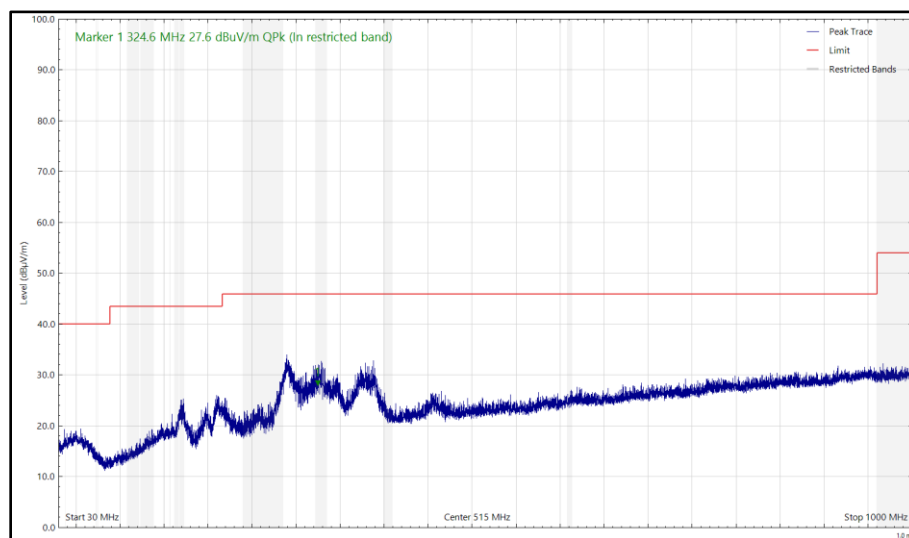


Figure 275 - 5203 MHz, DH5, ePA, Core 0 - Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

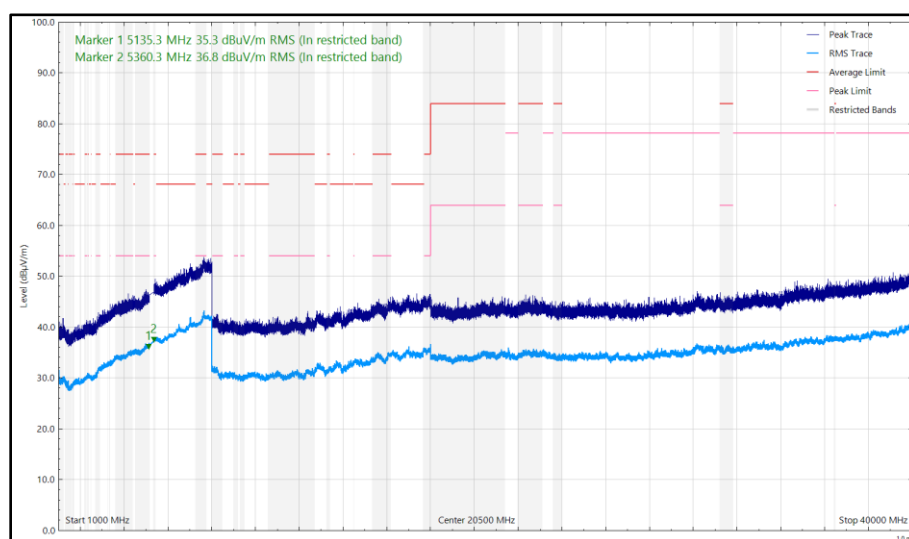


Figure 276 - 5203 MHz, DH5, ePA, Core 0 - Core 1, 1 GHz to 40 GHz, Horizontal

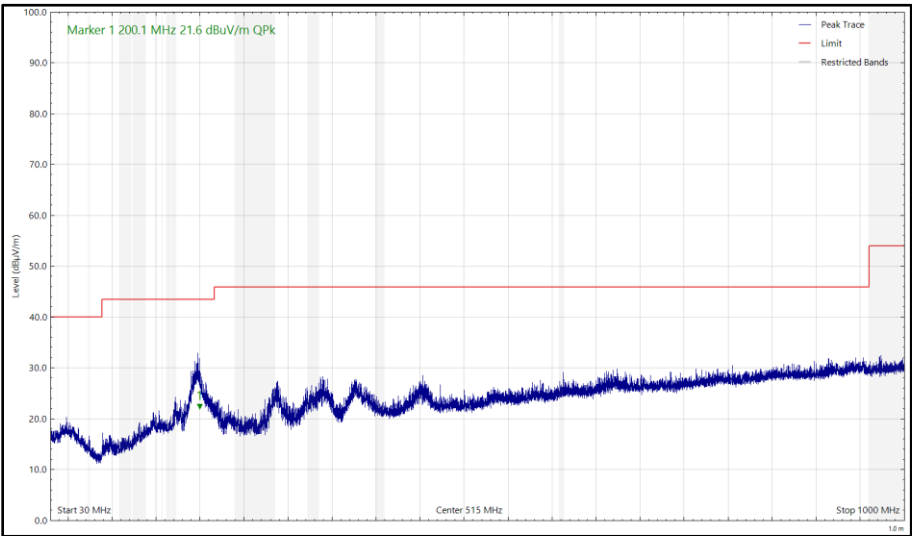


Figure 277 - 5203 MHz, DH5, ePA, Core 0 - Core 1, 30 MHz to 1 GHz, Vertical (Peak)

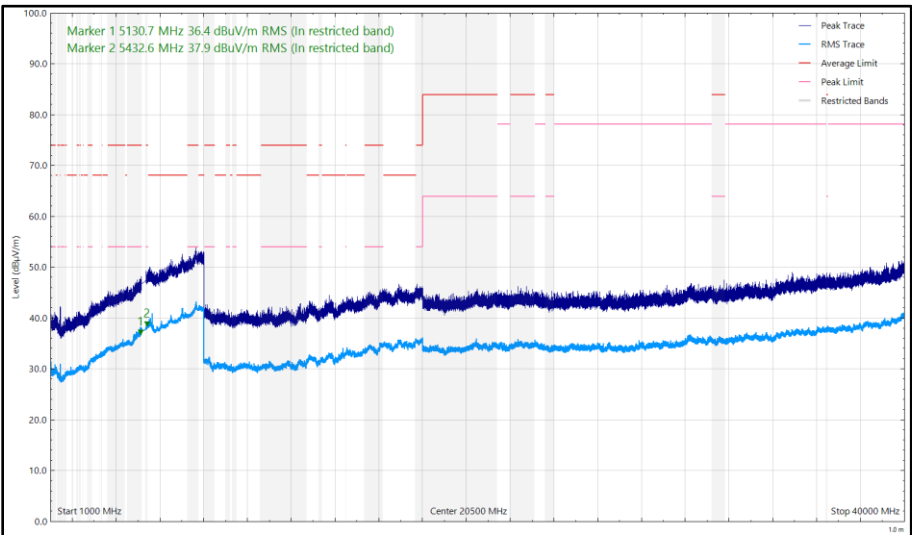


Figure 278 - 5203 MHz, DH5, ePA, Core 0 - Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
4807.995	37.62	54.00	-16.38	RMS	291	112	Vertical
5149.615	35.45	54.00	-18.55	RMS	135	110	Horizontal
5366.496	36.94	54.00	-17.06	RMS	192	328	Horizontal
5393.996	37.65	54.00	-16.35	RMS	240	292	Vertical

Table 125 - 5245 MHz, DH5, ePA, Core 0 - Core 1, 1 GHz to 40 GHz

No other emissions found within 10 dB of the limit.

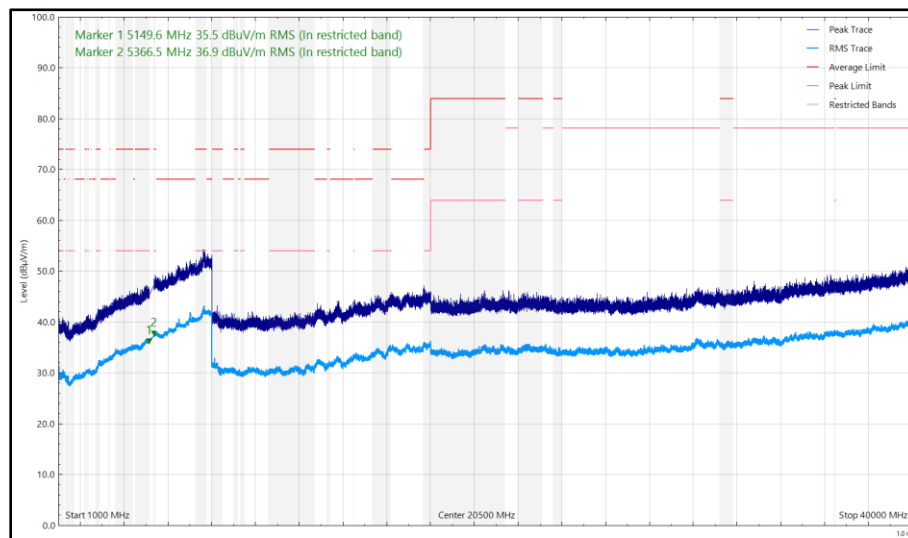


Figure 279 - 5245 MHz, DH5, ePA, Core 0 - Core 1, 1 GHz to 40 GHz, Horizontal

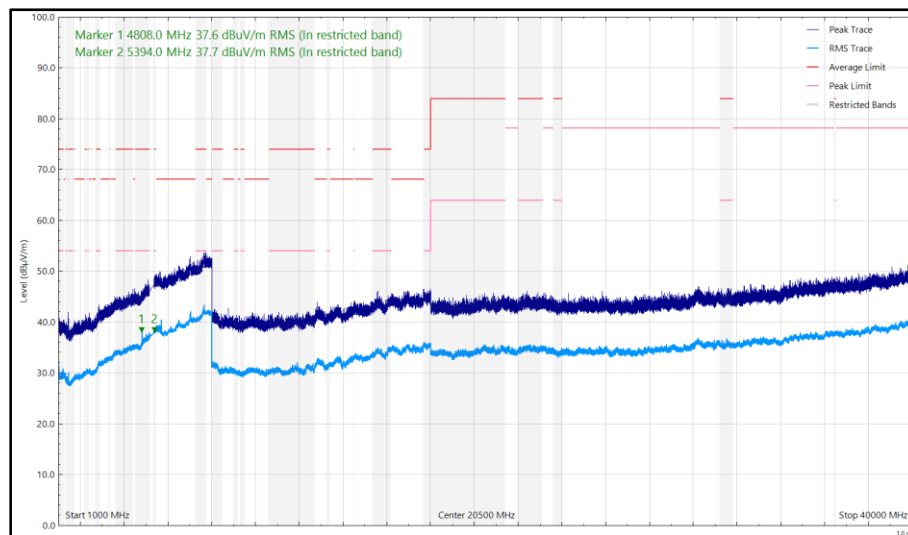


Figure 280 - 5245 MHz, DH5, ePA, Core 0 - Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5323.728	53.19	68.20	-15.01	Peak	112	103	Vertical
5419.652	36.65	54.00	-17.35	RMS	63	118	Horizontal
5433.296	37.53	54.00	-16.47	RMS	118	161	Vertical
5703.649	49.88	68.20	-18.32	Peak	80	400	Horizontal

Table 126 - 5733 MHz, DH5, ePA, Core 0 - Core 1, 1 GHz to 40 GHz

No other emissions found within 10 dB of the limit.

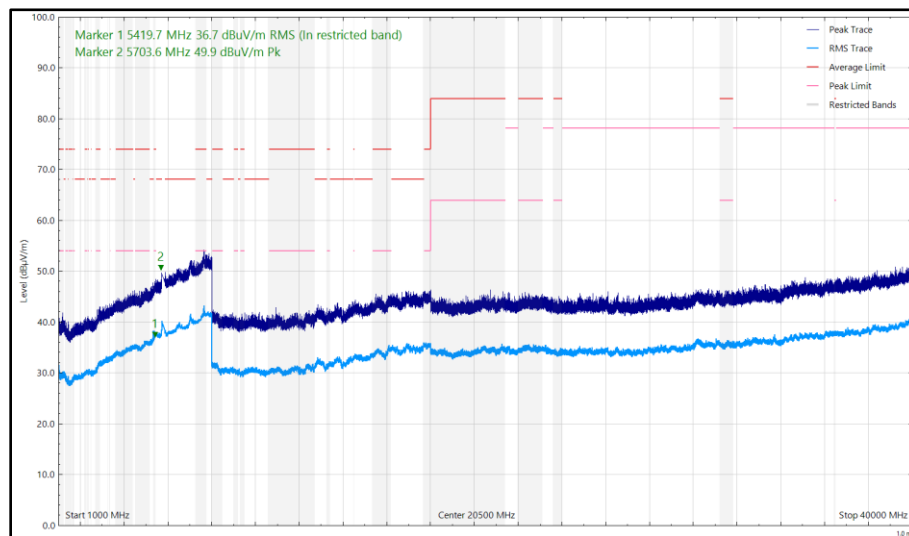


Figure 281 - 5733 MHz, DH5, ePA, Core 0 - Core 1, 1 GHz to 40 GHz, Horizontal

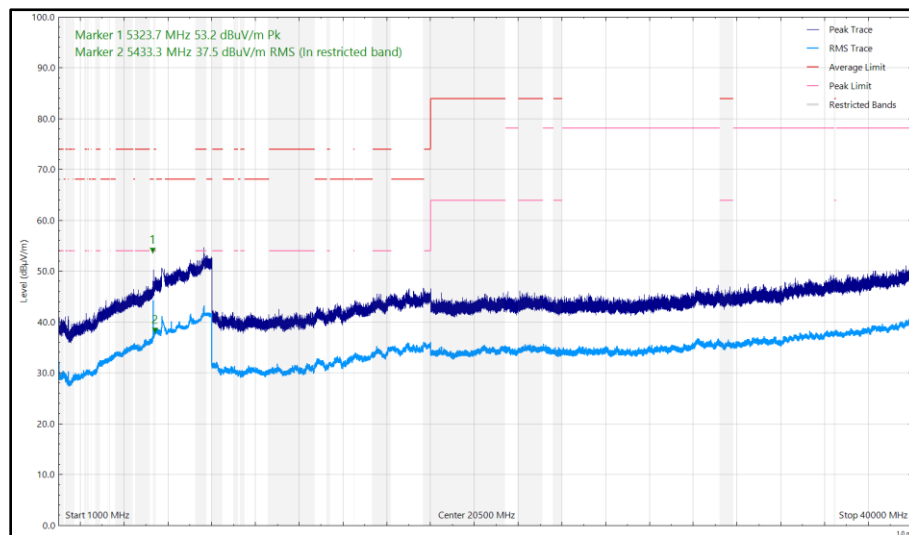


Figure 282 - 5733 MHz, DH5, ePA, Core 0 - Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5374.485	36.78	54.00	-17.22	RMS	108	248	Horizontal
5374.540	44.38	54.00	-9.62	RMS	118	100	Vertical
5720.981	52.56	68.20	-15.64	Peak	159	342	Horizontal
5723.621	53.49	68.20	-14.71	Peak	263	100	Vertical

Table 127 - 5788 MHz, DH5, ePA, Core 0 - Core 1, 30 MHz to 40 GHz

No other emissions found within 10 dB of the limit.

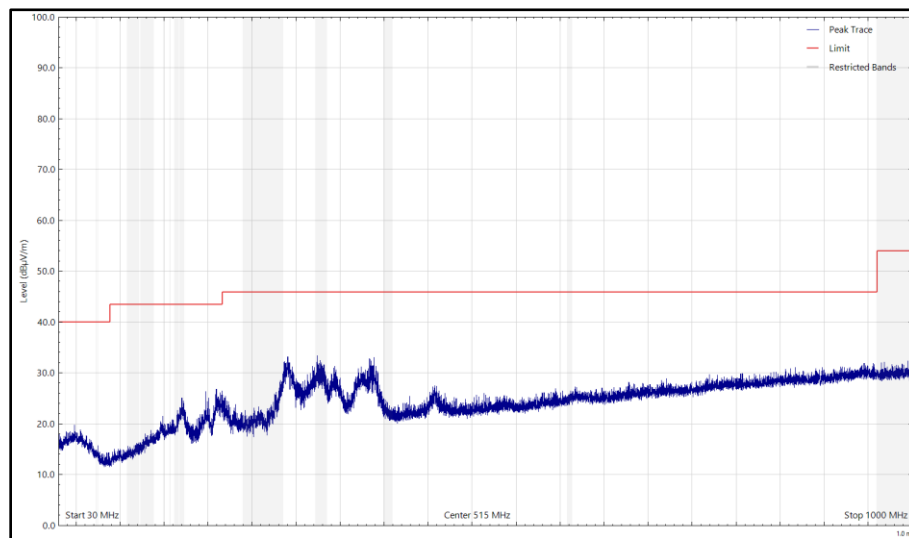


Figure 283 - 5788 MHz, DH5, ePA, Core 0 - Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

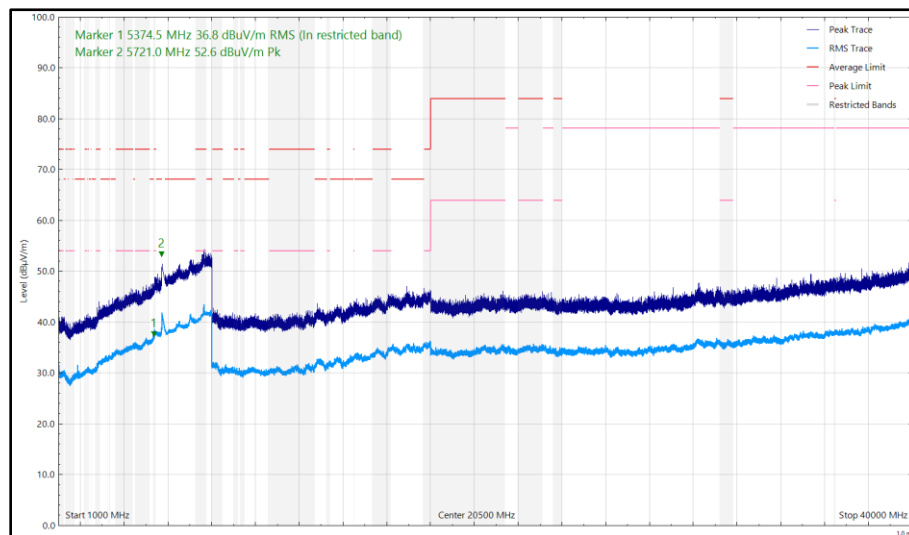


Figure 284 - 5788 MHz, DH5, ePA, Core 0 - Core 1, 1 GHz to 40 GHz, Horizontal

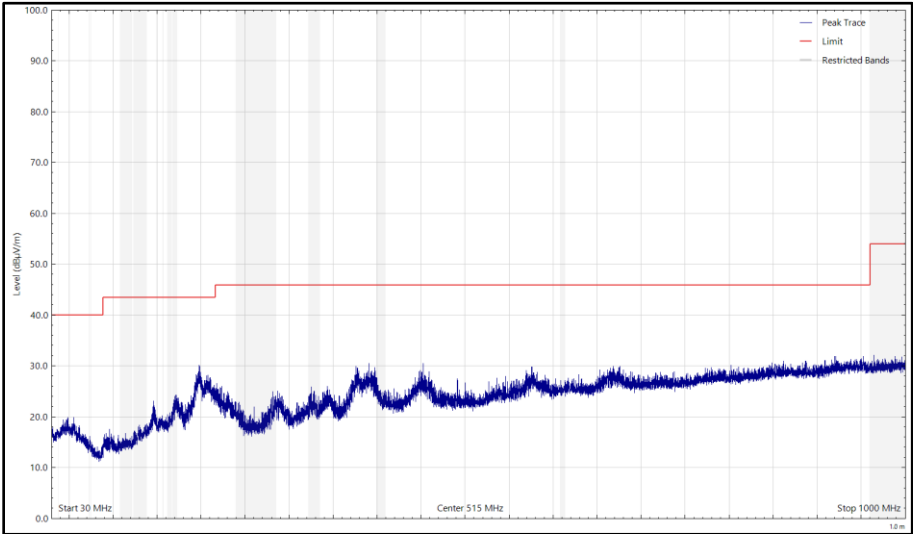


Figure 285 - 5788 MHz, DH5, ePA, Core 0 - Core 1, 30 MHz to 1 GHz, Vertical (Peak)

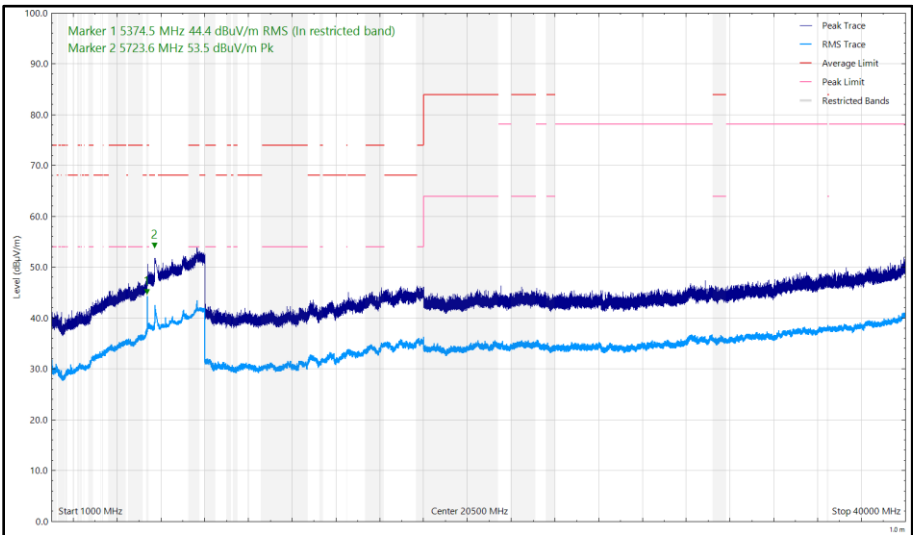


Figure 286 - 5788 MHz, DH5, ePA, Core 0 - Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5426.610	46.21	54.00	-7.79	RMS	108	110	Vertical
5431.870	36.90	54.00	-17.10	RMS	92	393	Horizontal
5721.052	53.21	68.20	-14.99	Peak	109	202	Vertical
5721.264	52.31	68.20	-15.89	Peak	139	393	Horizontal

Table 128 - 5844 MHz, DH5, ePA, Core 0 - Core 1, 1 GHz to 40 GHz

No other emissions found within 10 dB of the limit.

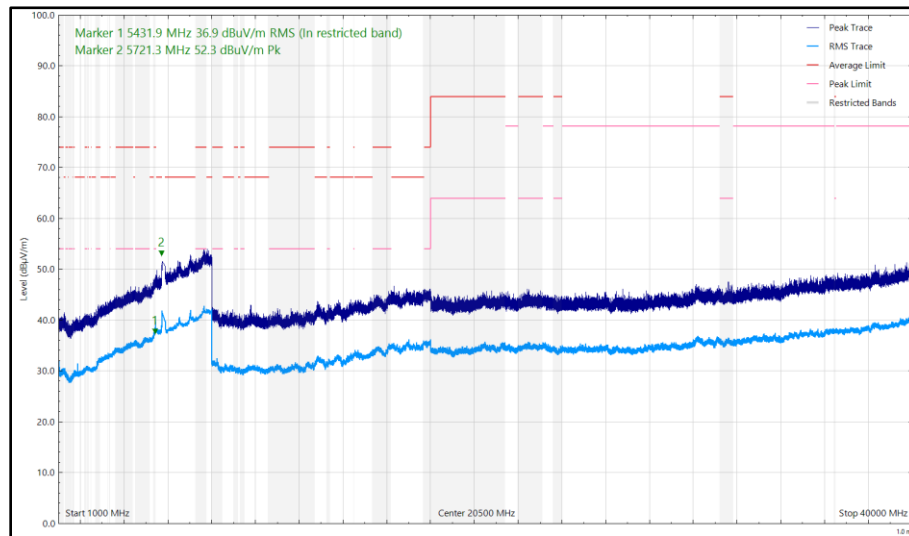


Figure 287 - 5844 MHz, DH5, ePA, Core 0 - Core 1, 1 GHz to 40 GHz, Horizontal

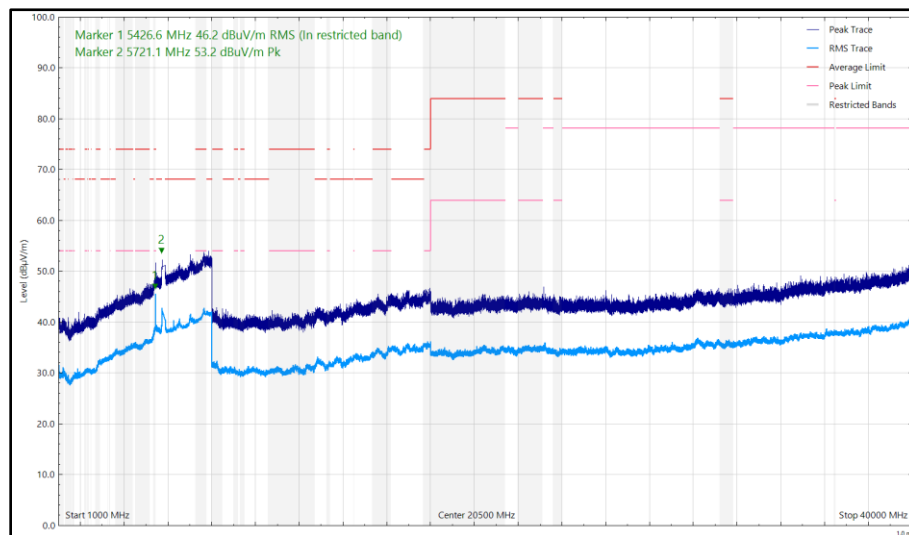


Figure 288 - 5844 MHz, DH5, ePA, Core 0 - Core 1, 1 GHz to 40 GHz, Vertical



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 (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 129 - 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 ($\mu\text{V/m}$) at 3m	Field Strength Limit ($\text{dB}\mu\text{V/m}$) 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 130 - 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 15, and RF Chamber 18.

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
Test Receiver	Rohde & Schwarz	ESW44	5914	12	24-May-2025
DRG Horn Antenna (7.5-18GHz)	Schwarzbeck	HWRD750	5939	12	05-May-2025
TRILOG Super Broadband Test Antenna	Schwarzbeck	VULB 9168	5944	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 (SMA to SMA 1m)	Junkosha	MWX221-01000AMSAMS/A	5997	12	14-Sep-2024
Cable (SMA to SMA 4.5m)	Junkosha	MWX221-04500AMSAMS/A	6002	12	14-Sep-2024
Cable (N to N 8m)	Junkosha	MWX221-08000NMSNMS/A	6017	12	14-Sep-2024
Cable (SMA to SMA 3m)	Junkosha	MWX221-03000AMSAMS/A	6021	12	14-Sep-2024
Horn Antenna (1-10 GHz)	Schwarzbeck	BBHA9120B	6140	12	05-May-2025
Digital Multimeter	Fluke	115	6145	12	15-Jun-2024*
Digital Multimeter	Fluke	115	6145	12	06-Jun-2025*
Digital Multimeter	Fluke	115	6147	12	16-Jun-2024*
Digital Multimeter	Fluke	115	6147	12	06-Jun-2025*
Humidity & Temperature meter	R.S Components	1364	6149	12	07-Jul-2024
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
USB Spectrum Analyser	Signal Hound	SA124B	6297	-	TU



Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
USB Spectrum Analyser	Signal Hound	SA124B	6298	-	TU
Cable (SMA to SMA 3m)	Junkosha	MWX221-03000AMSAMS/A	6316	12	04-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
Humidity and Temperature Meter	R.S Components	1364	6346	12	06-Mar-2025
8 GHz High Pass Filter	Wainwright	WHKX 7150 8000 18000 50SS	6427	12	23-Apr-2025
3m Semi-Anechoic Chamber , Chamber18	Albatross Projects	Chamber 18	6597	36	07-Feb-2026
AC Power Supply	iTech	IT7324	6657	-	O/P Mon
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
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

Table 131

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	± 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 132

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.